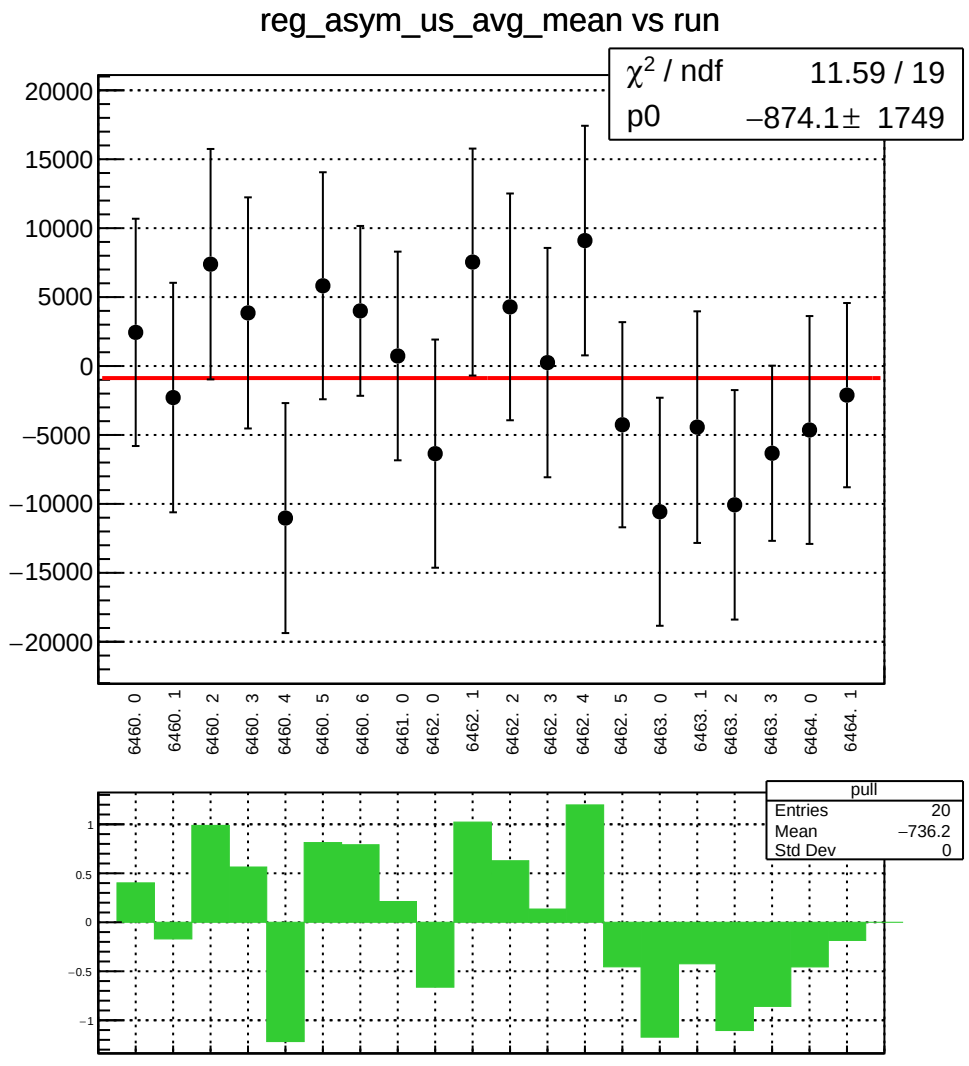
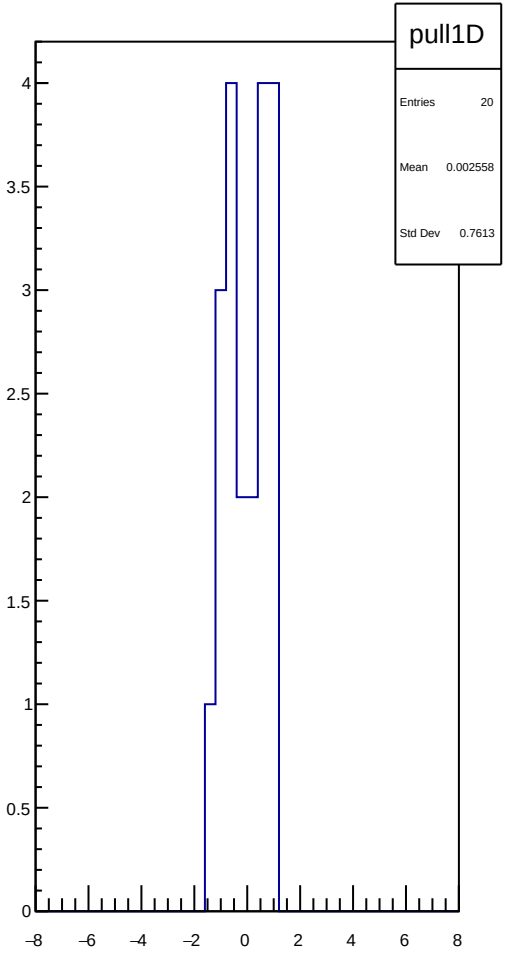
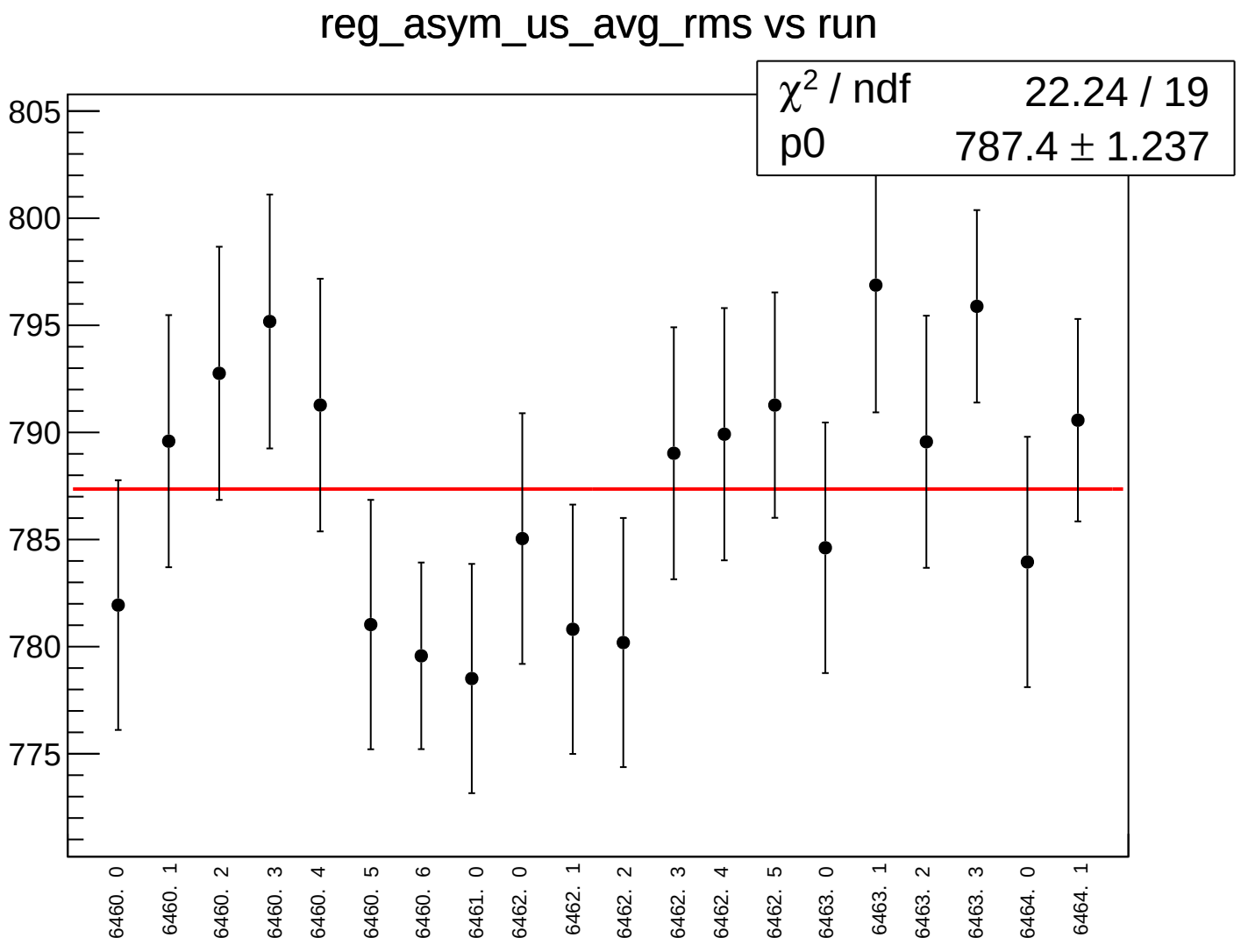
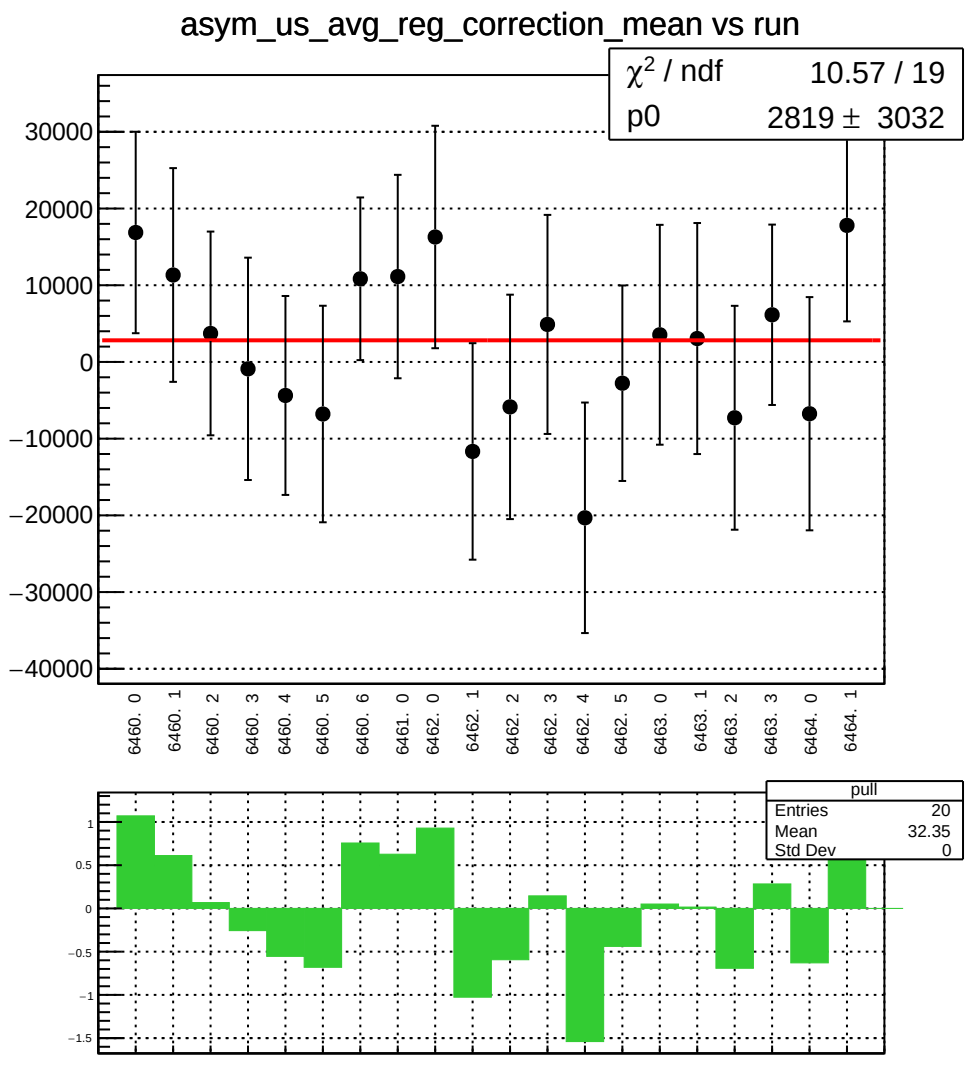
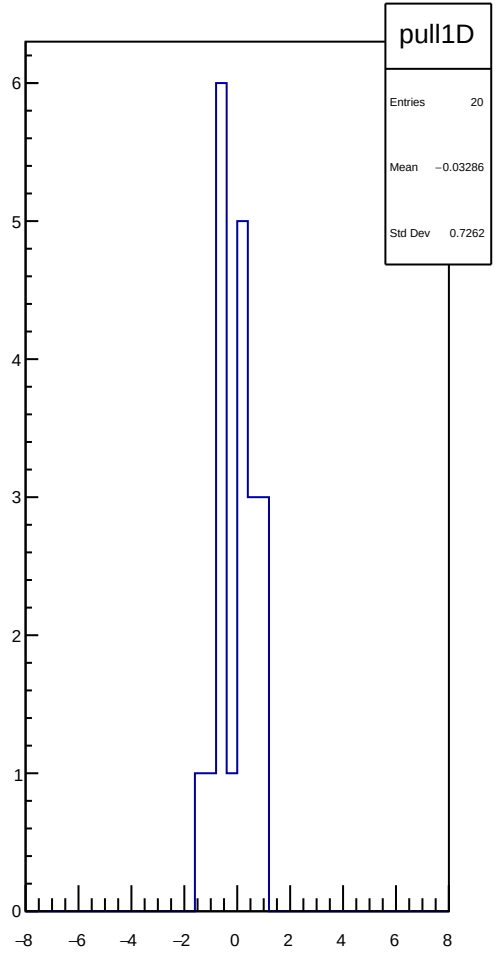
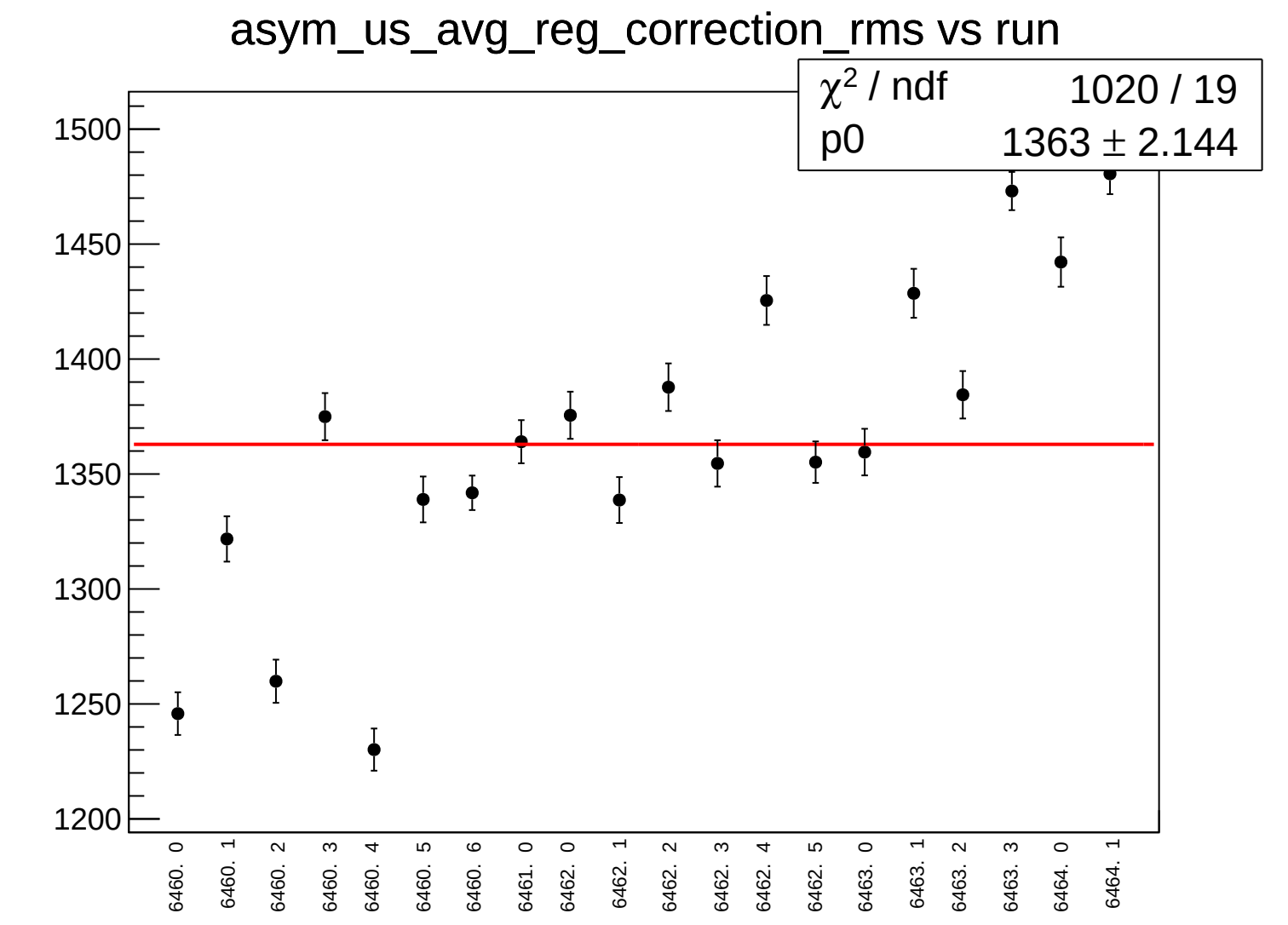

reg_asym_us_avg_mean vs run
χ² / ndf 11.59 / 19
p0 −874.1± 1749
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −736.2
Std Dev 0
1
0.5
0
−0.5
−1

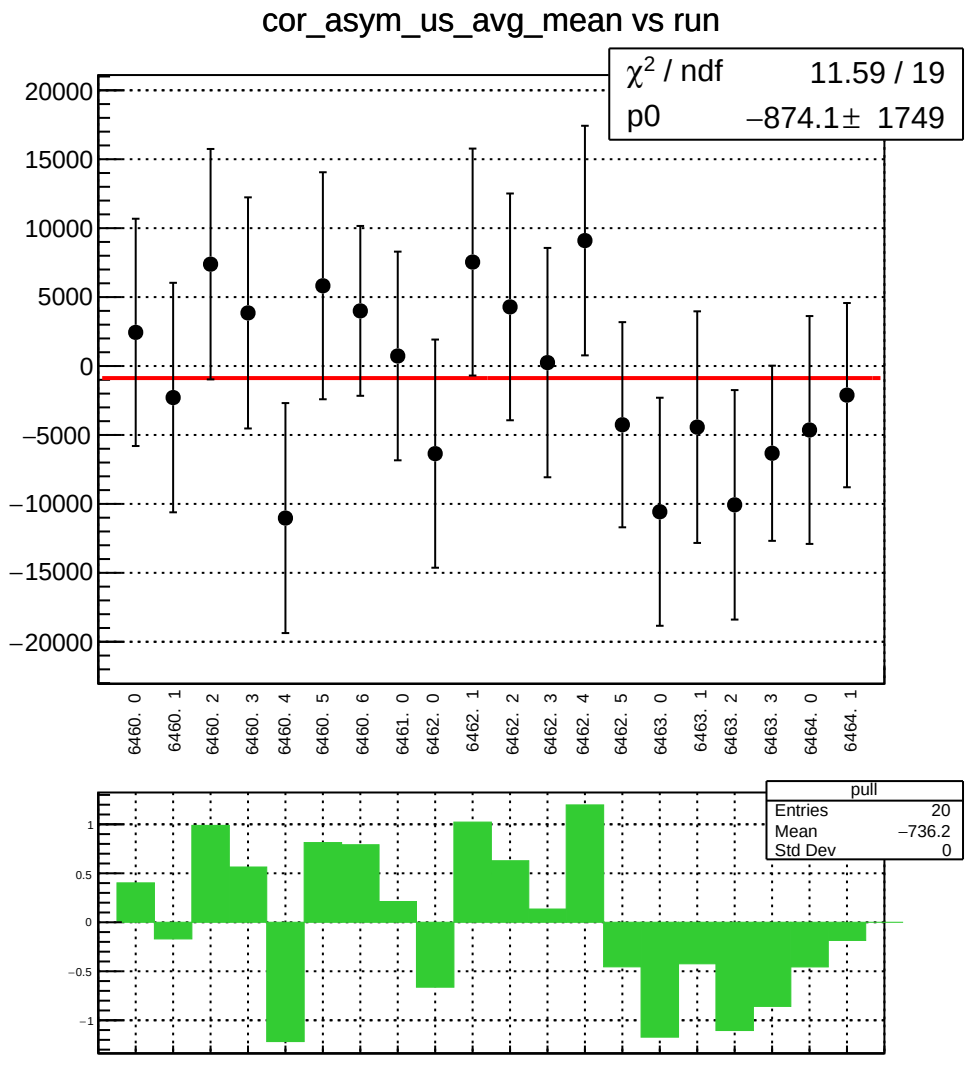

pull1D
Entries 20
Mean 0.002558
Std Dev 0.7613
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

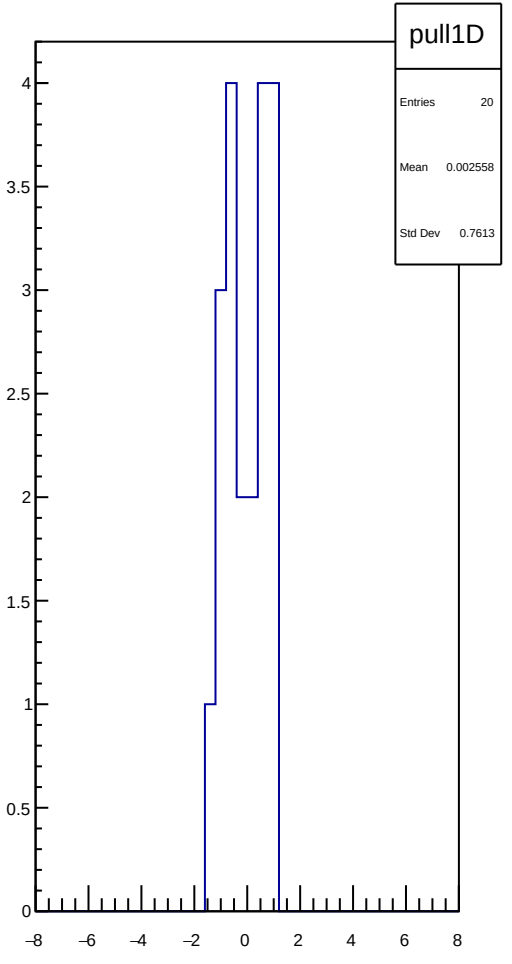

reg_asym_us_avg_rms vs run
χ² / ndf 22.24 / 19
p0 787.4 ± 1.237
805
800
795
790
785
780
775
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

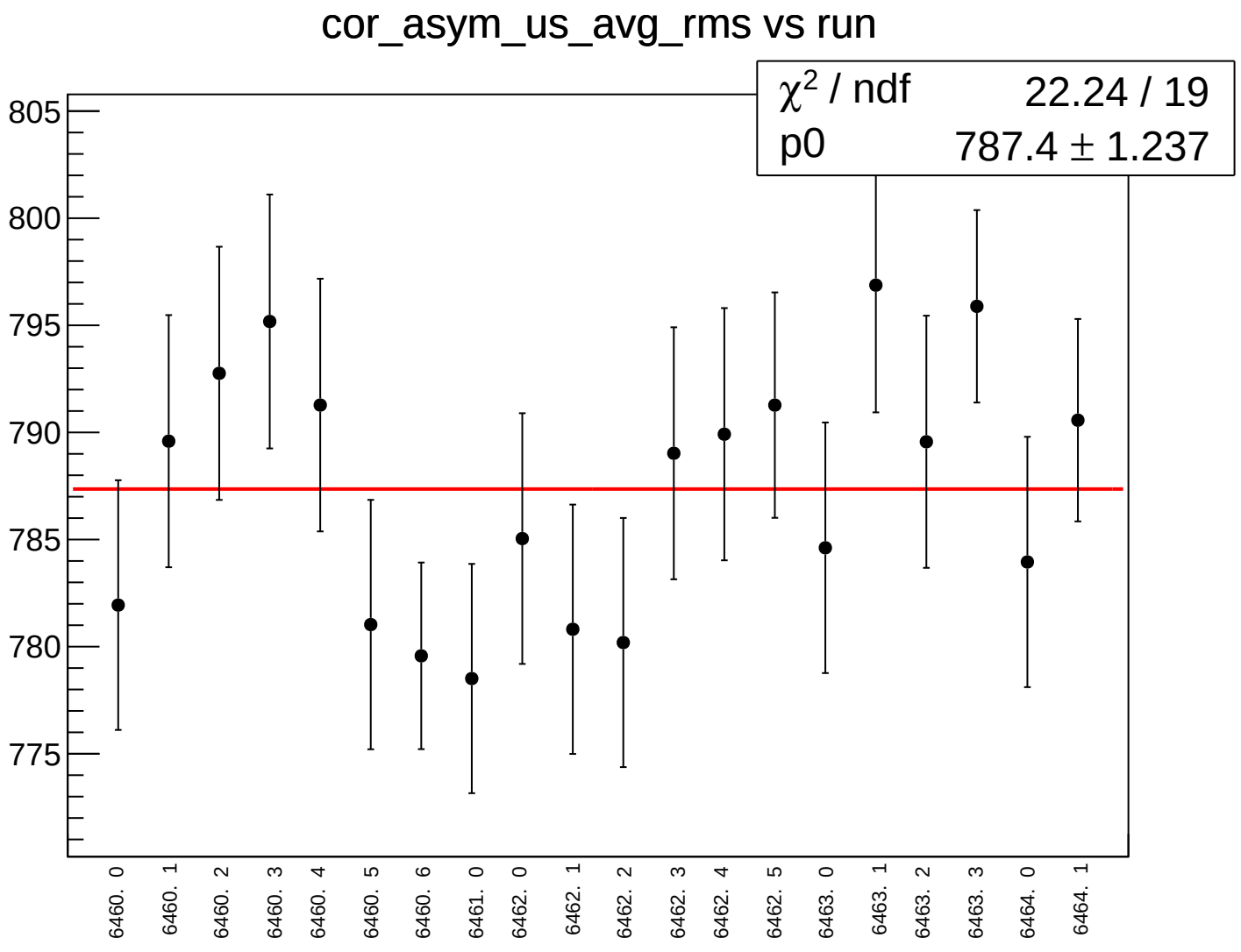

asym_us_avg_reg_correction_mean vs run
χ² / ndf 10.57 / 19
p0 2819 ± 3032
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.35
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

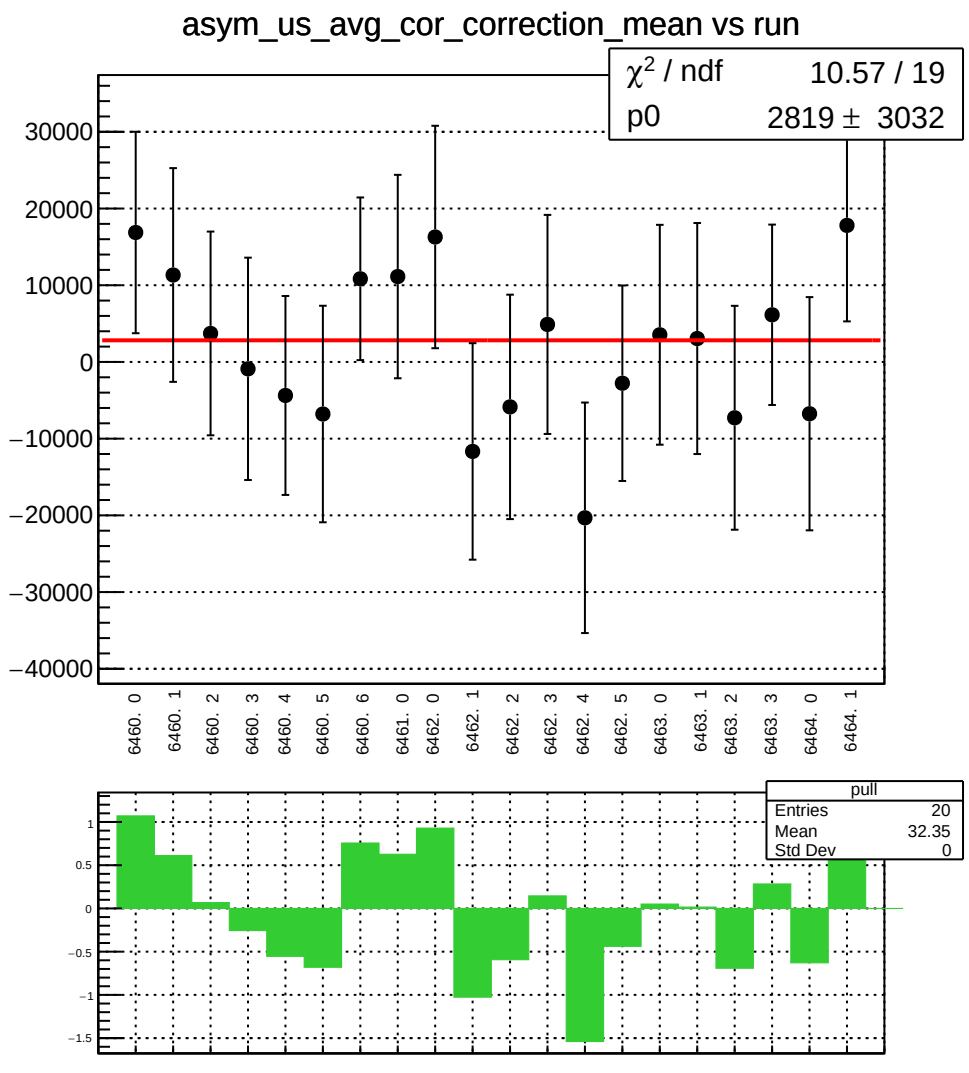

pull1D
Entries 20
Mean −0.03286
Std Dev 0.7262
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

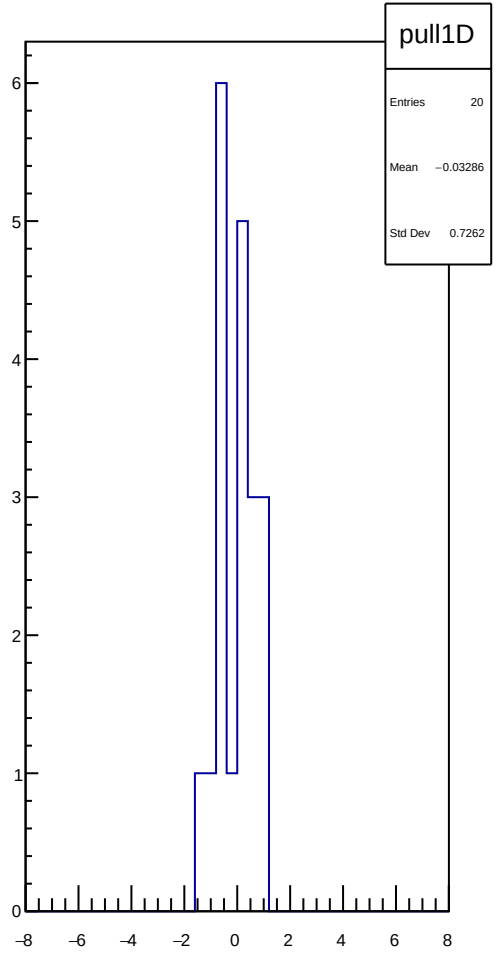

asym_us_avg_reg_correction_rms vs run
χ² / ndf 1020 / 19
p0 1363 ± 2.144
1500
1450
1400
1350
1300
1250
1200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

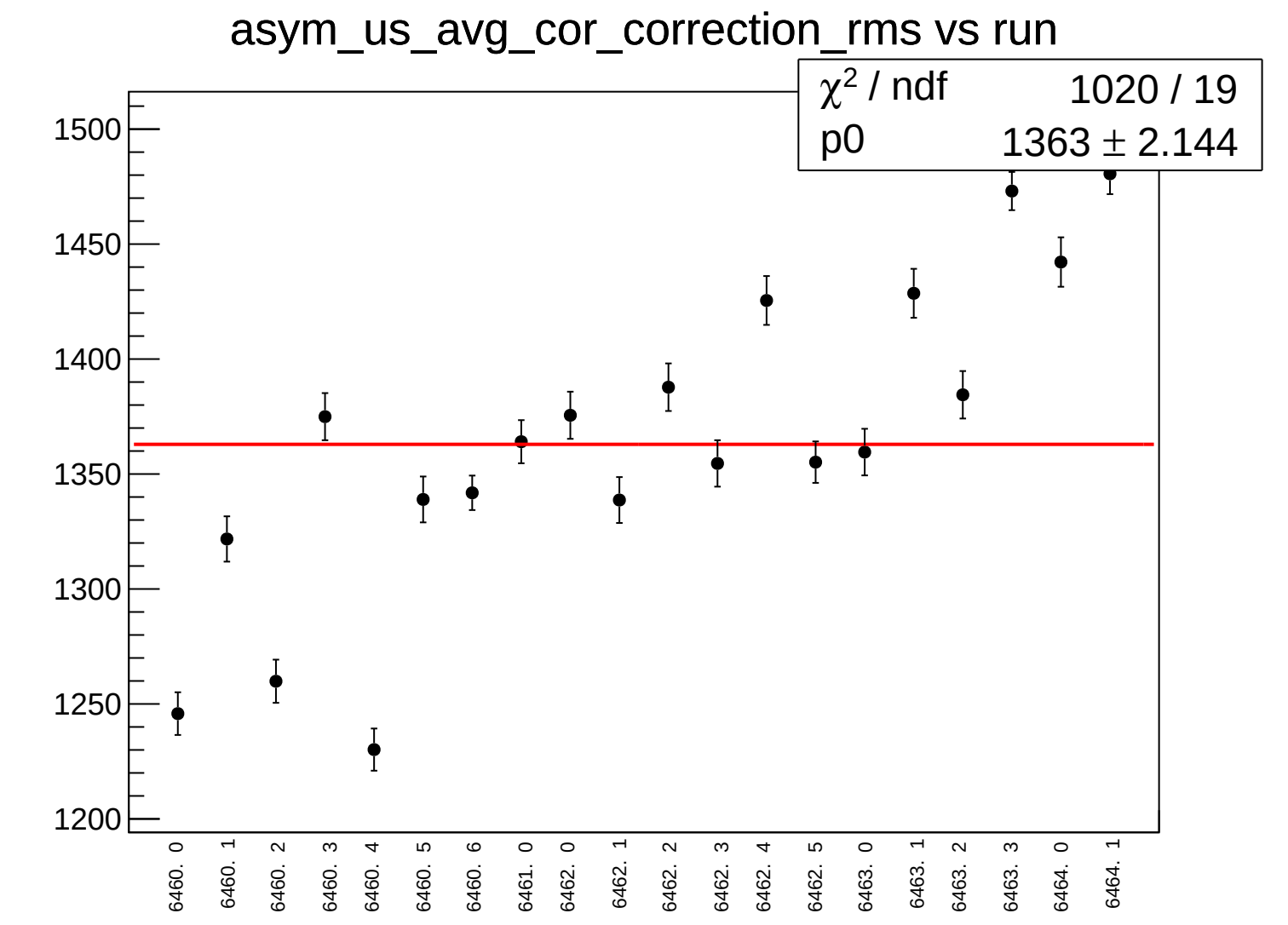

cor_asym_us_avg_mean vs run
χ² / ndf 11.59 / 19
p0 −874.1± 1749
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −736.2
Std Dev 0
1
0.5
0
−0.5
−1

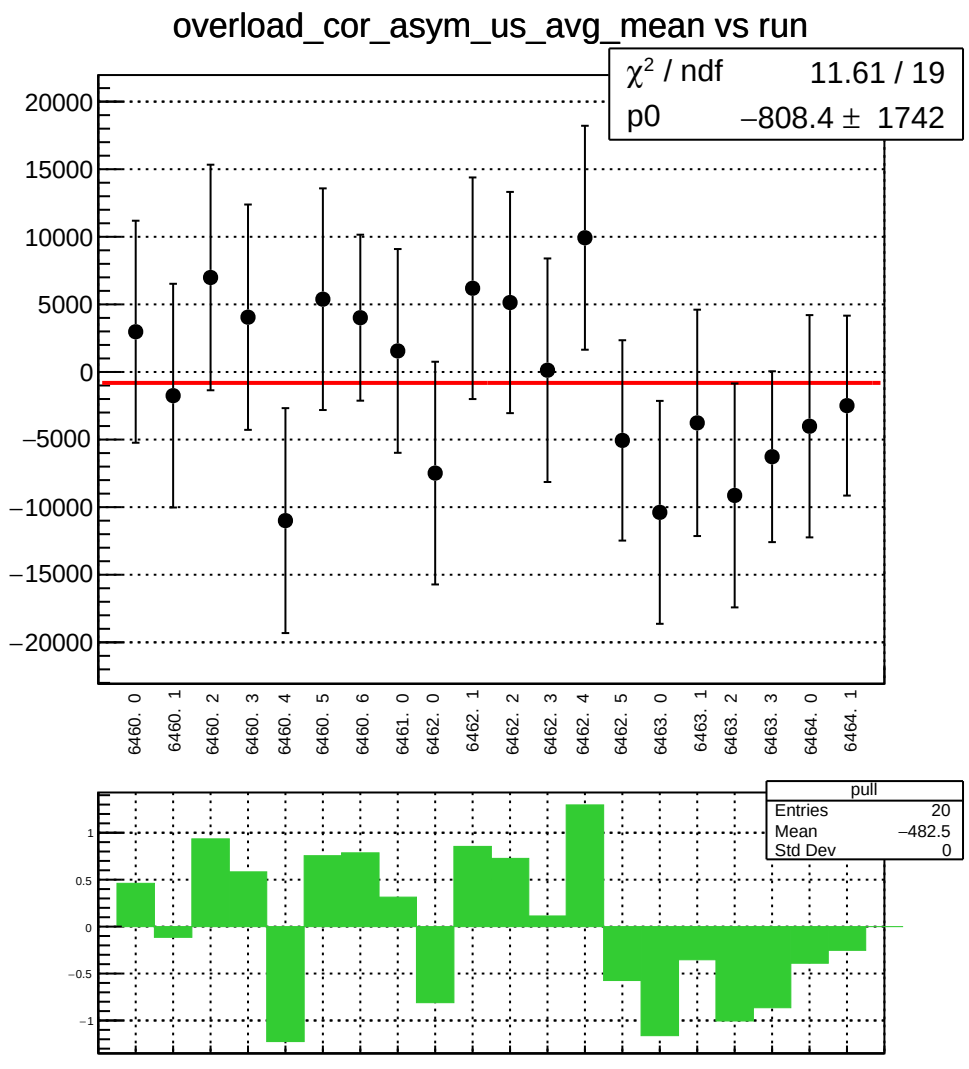

pull1D
Entries 20
Mean 0.002558
Std Dev 0.7613
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

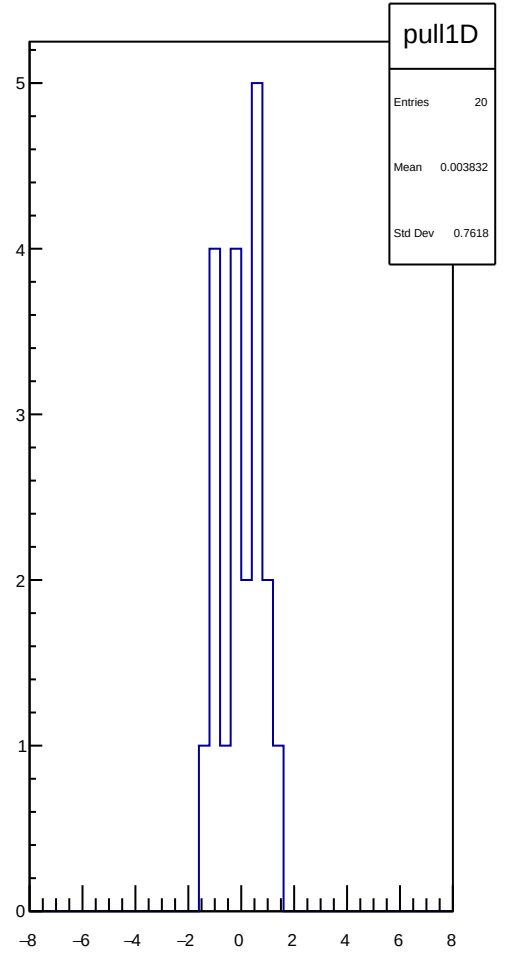

cor_asym_us_avg_rms vs run
χ² / ndf 22.24 / 19
p0 787.4 ± 1.237
805
800
795
790
785
780
775
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

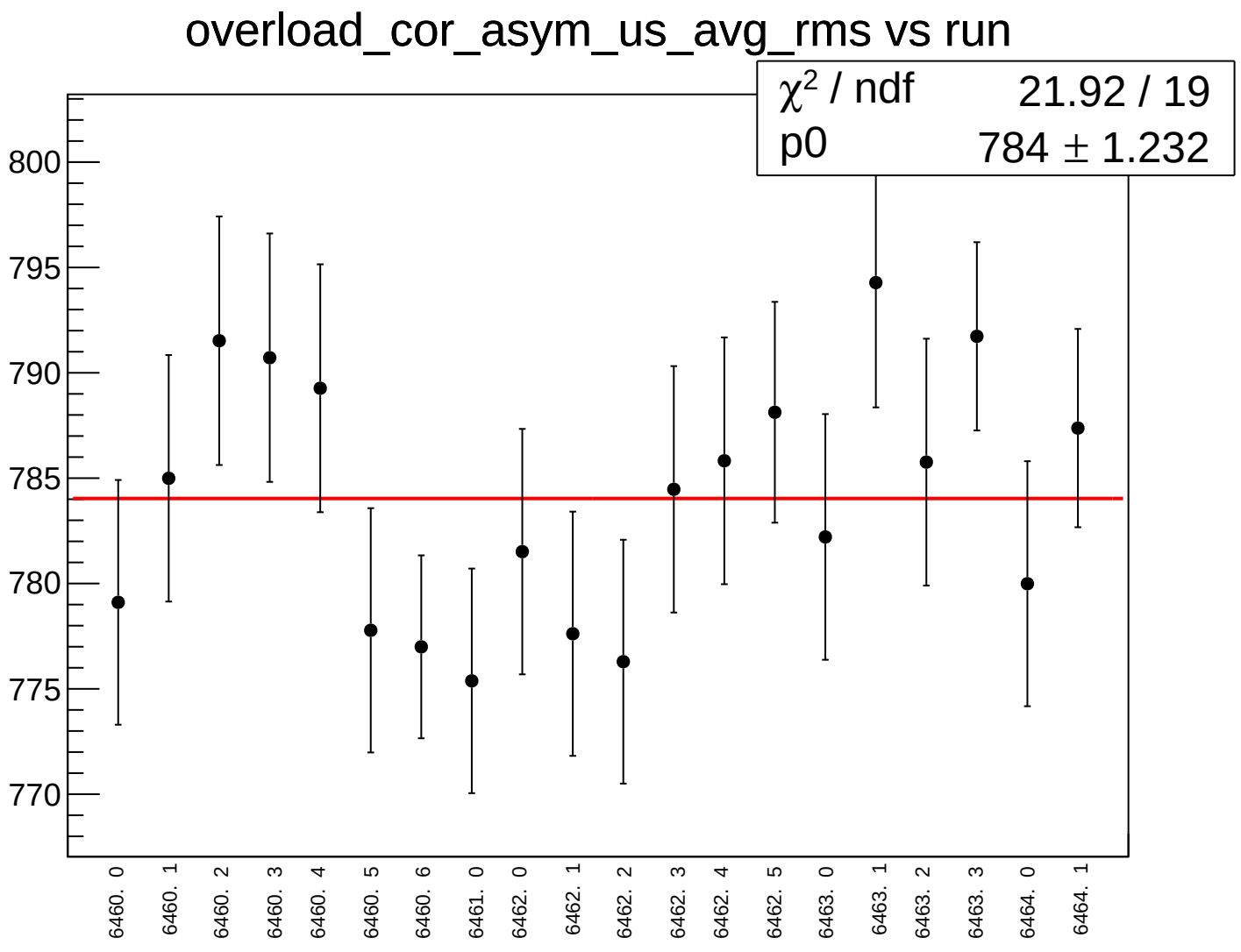

asym_us_avg_cor_correction_mean vs run
χ² / ndf 10.57 / 19
p0 2819 ± 3032
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.35
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

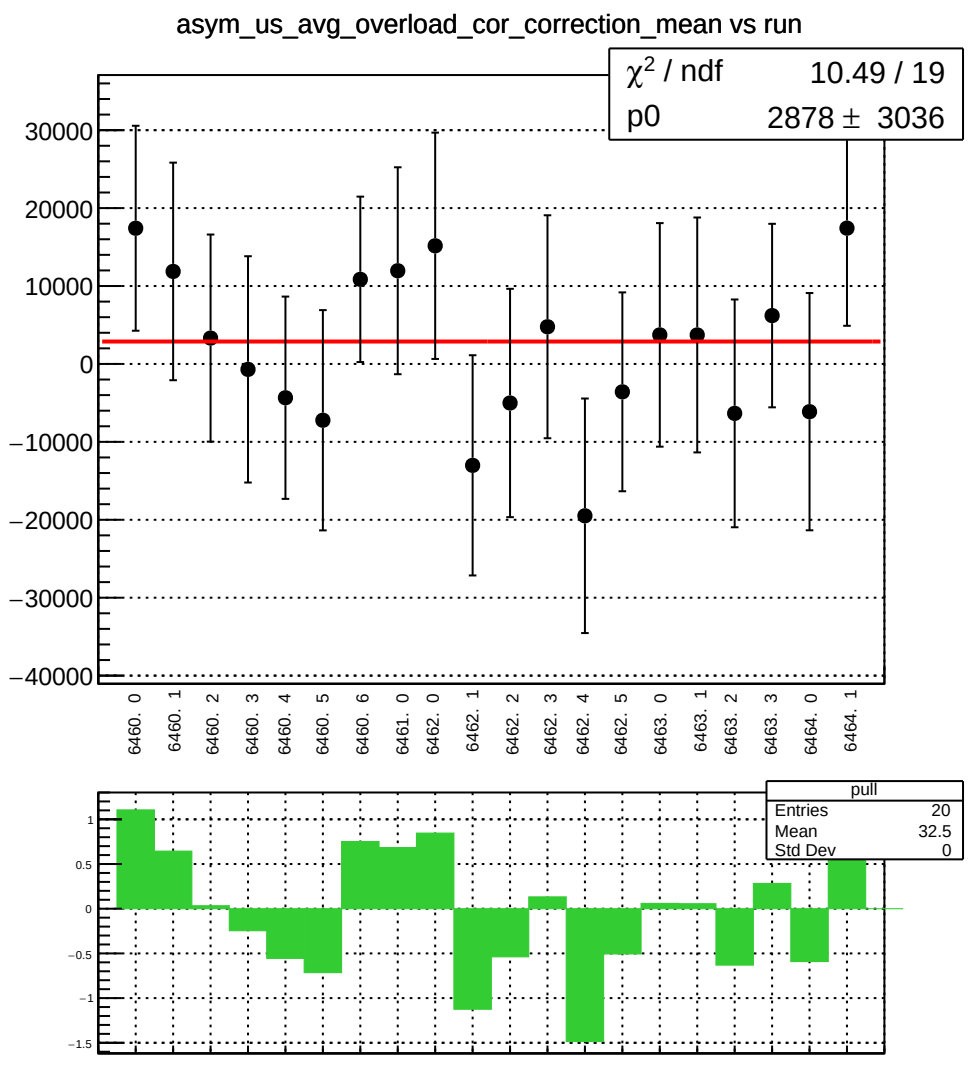

pull1D
Entries 20
Mean −0.03286
Std Dev 0.7262
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

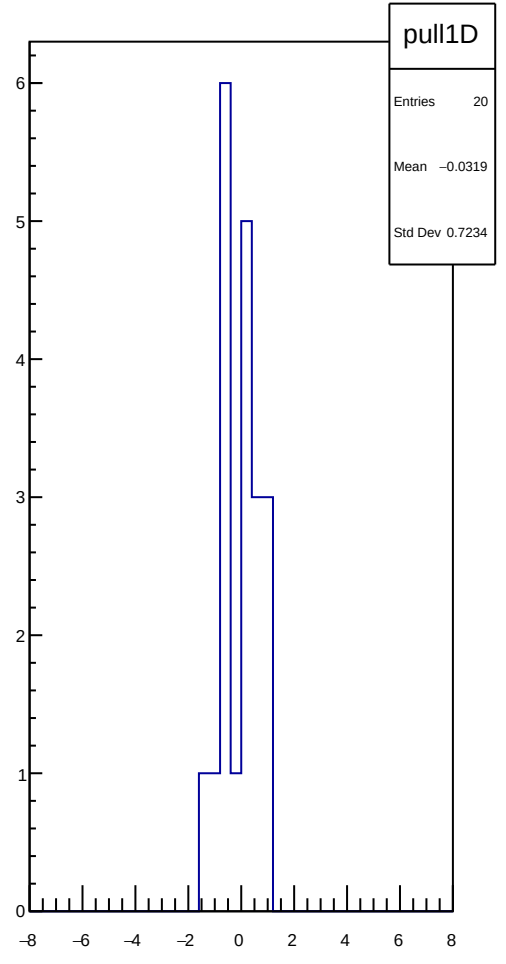

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1020 / 19
p0 1363 ± 2.144
1500
1450
1400
1350
1300
1250
1200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


overload_cor_asym_us_avg_mean vs run
χ² / ndf 11.61 / 19
p0 −808.4 ± 1742
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −482.5
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.003832
Std Dev 0.7618
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 21.92 / 19
p0 784 ± 1.232
800
795
790
785
780
775
770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 10.49 / 19
p0 2878 ± 3036
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean −0.0319
Std Dev 0.7234
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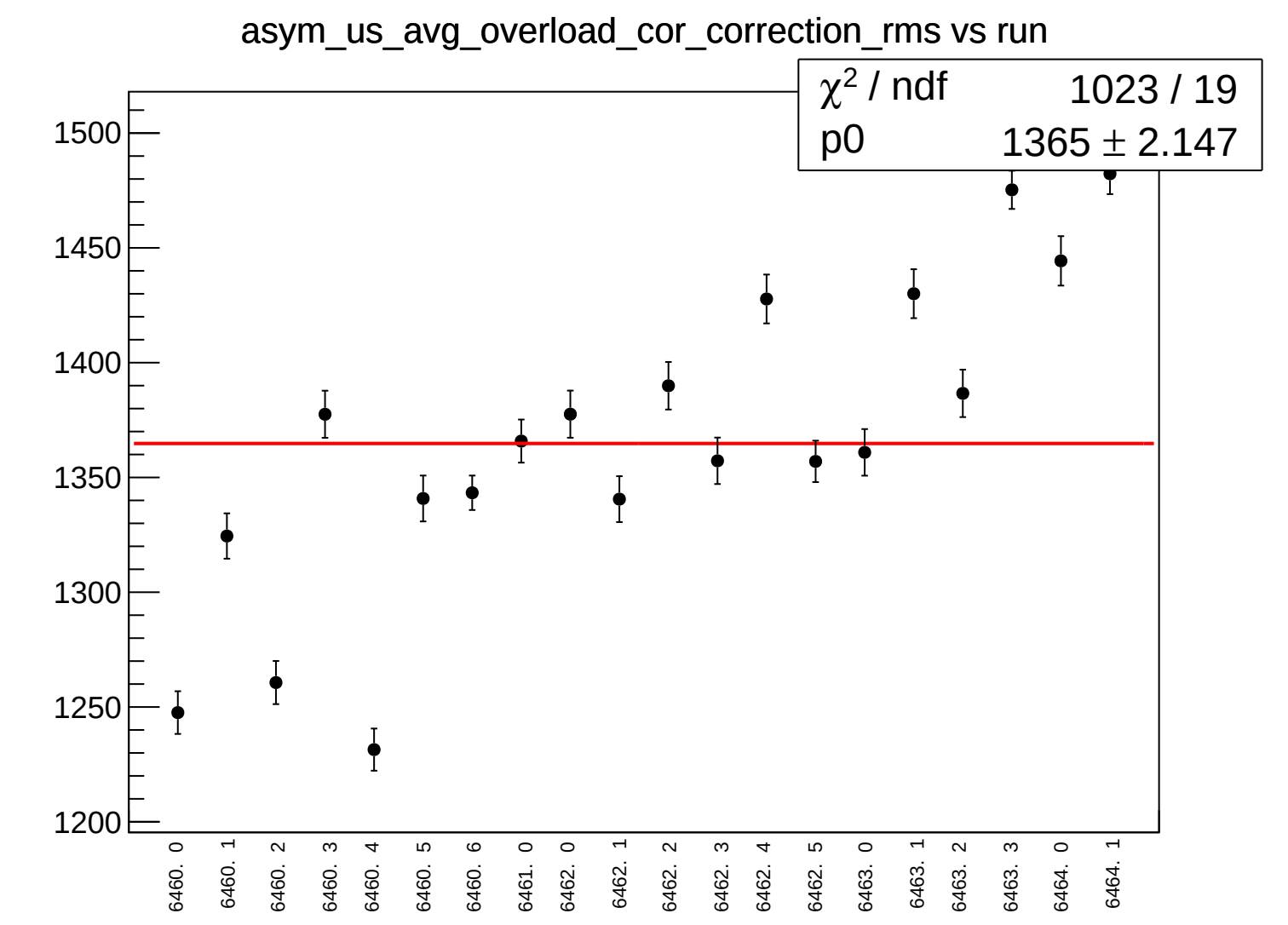
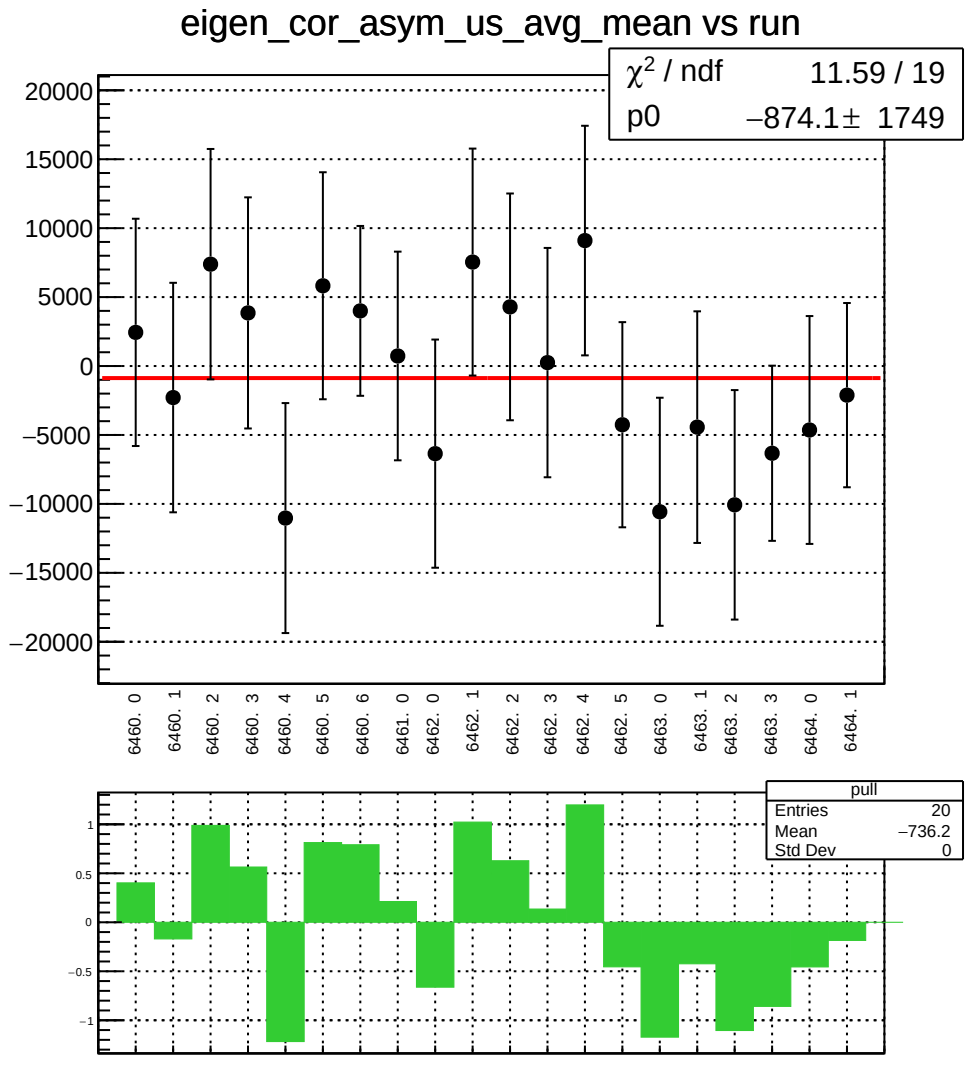
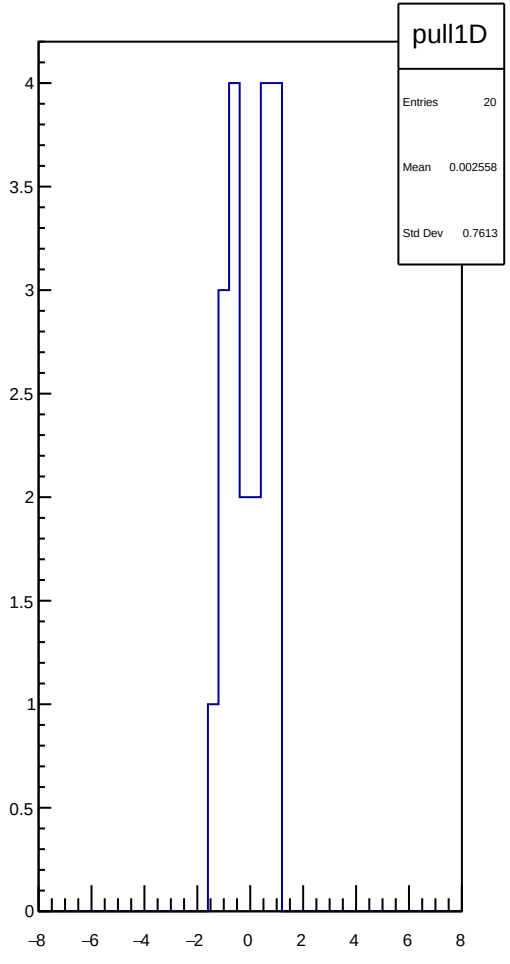
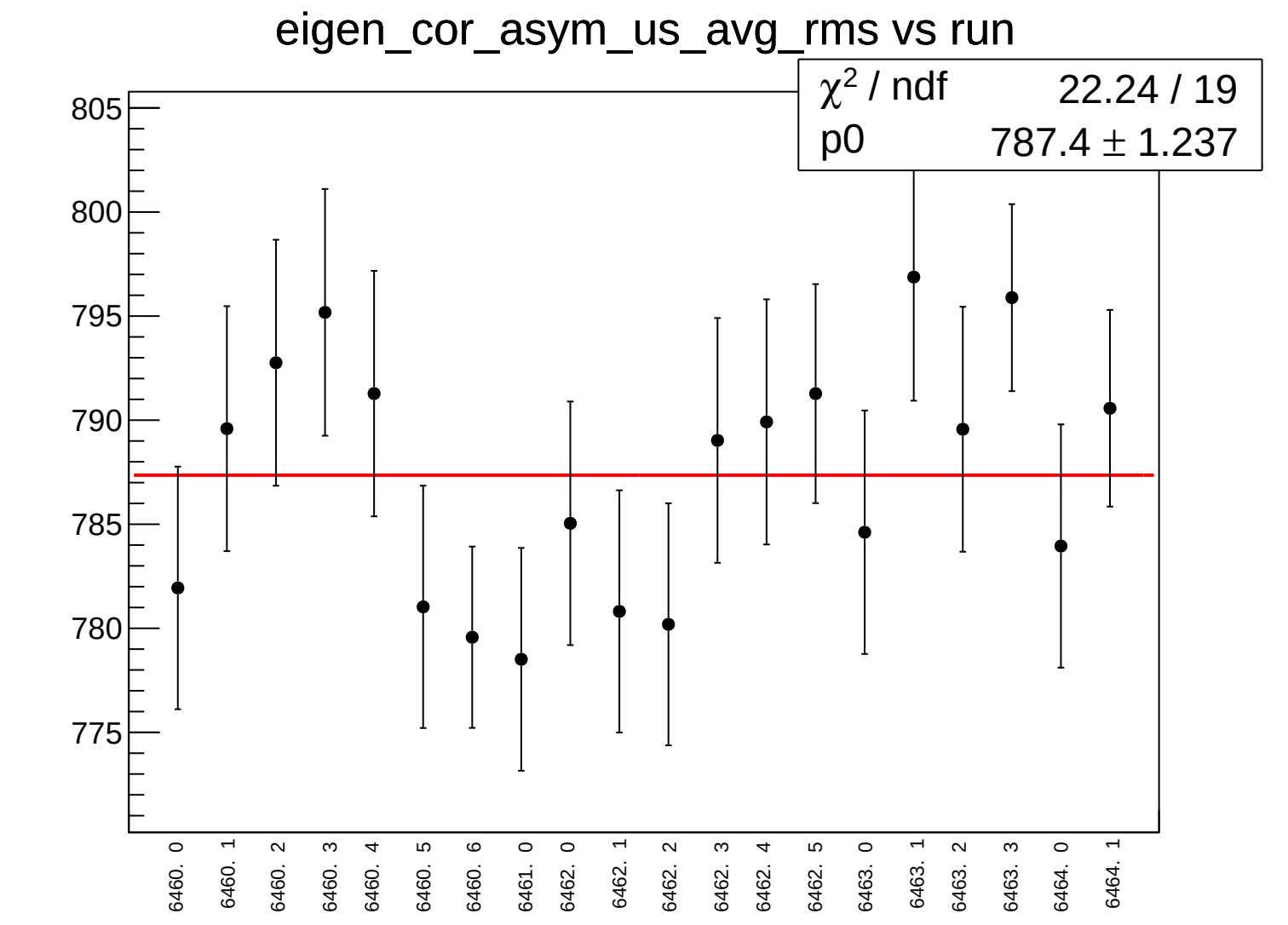
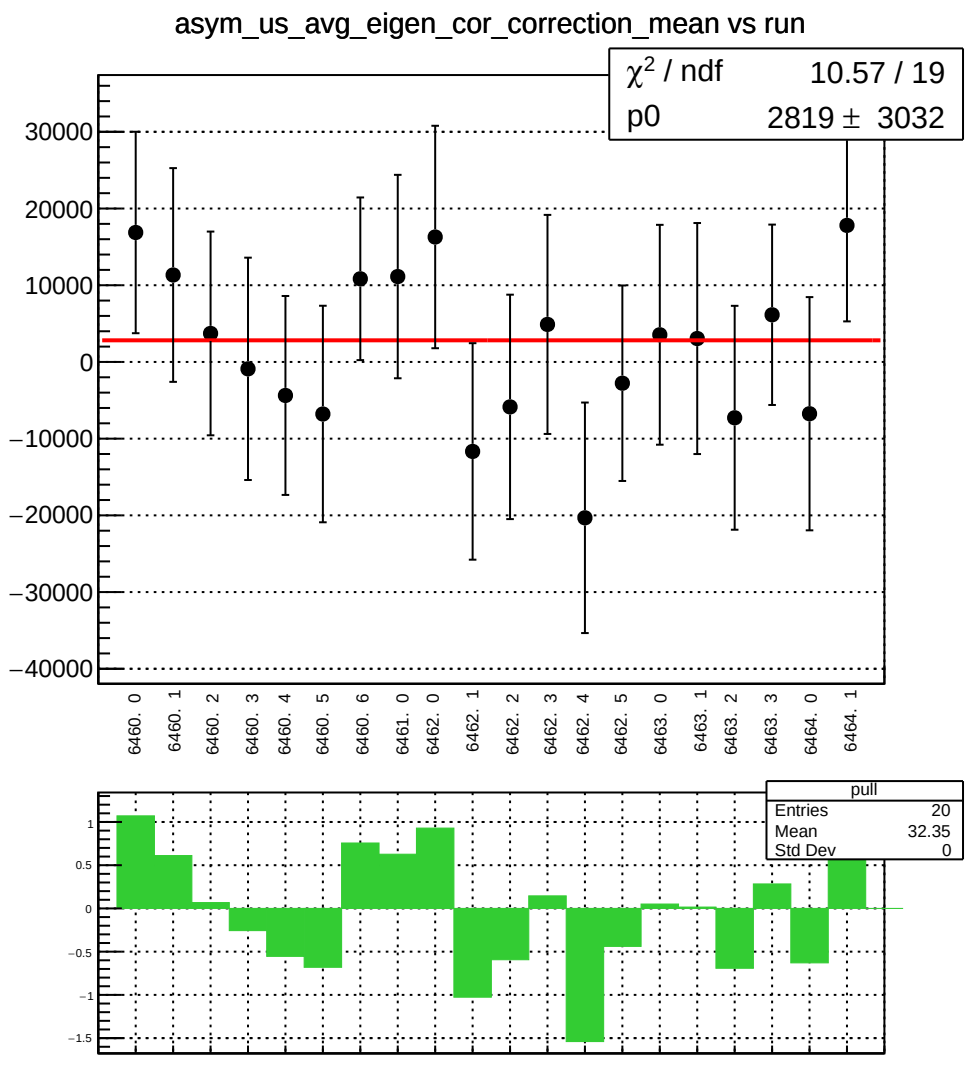
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

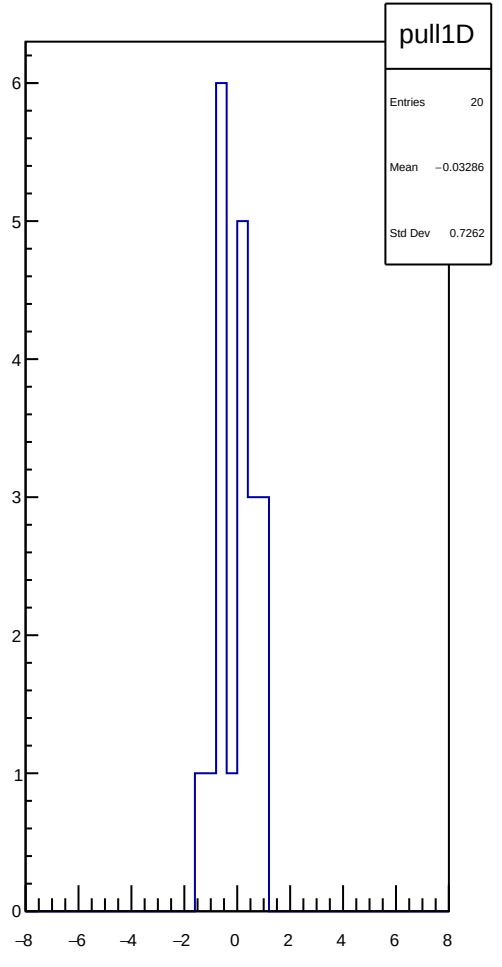

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1023 / 19
p0 1365 ± 2.147
1500
1450
1400
1350
1300
1250
1200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

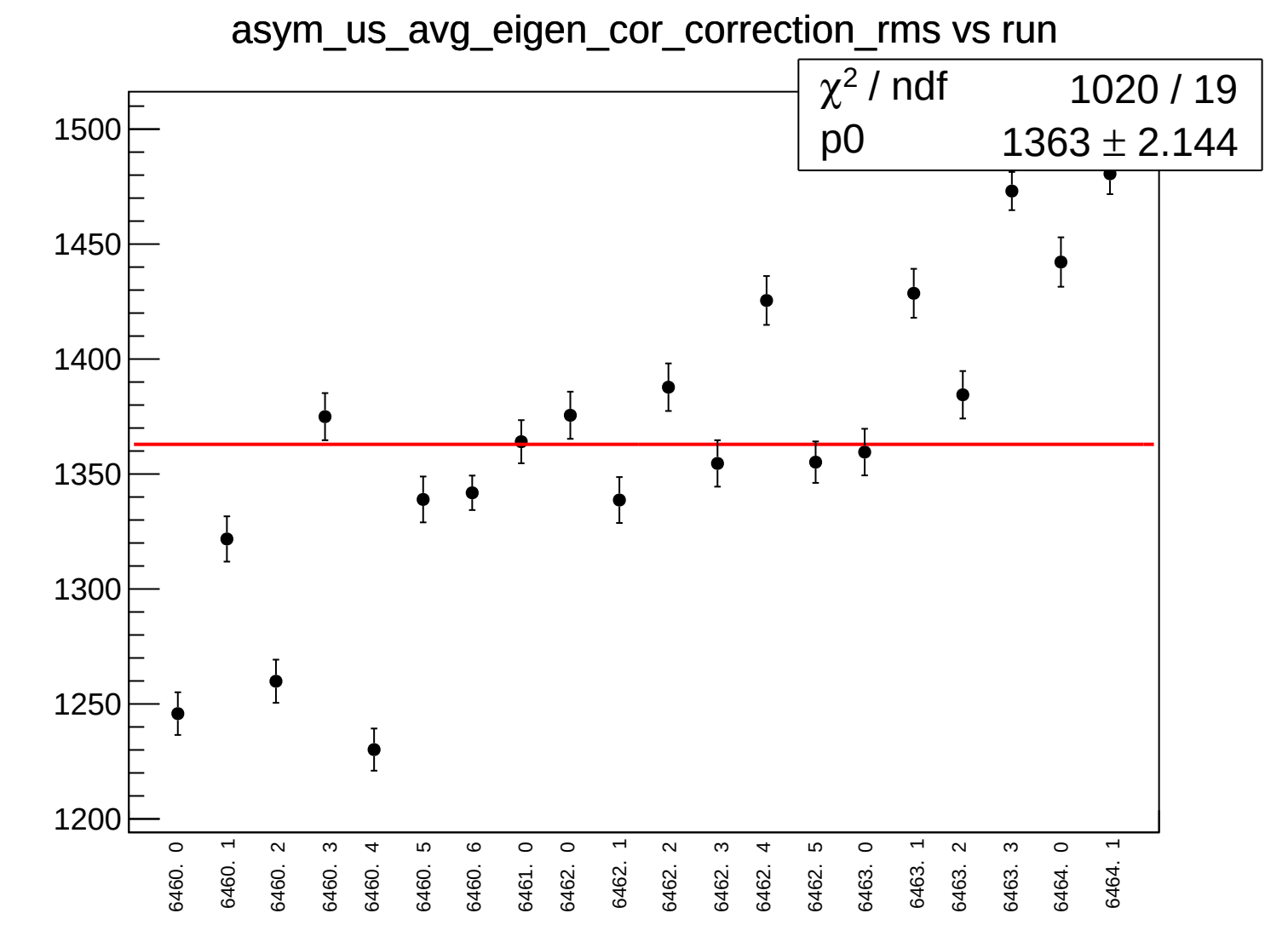

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 11.59 / 19
p0 −874.1± 1749
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −736.2
Std Dev 0
1
0.5
0
−0.5
−1

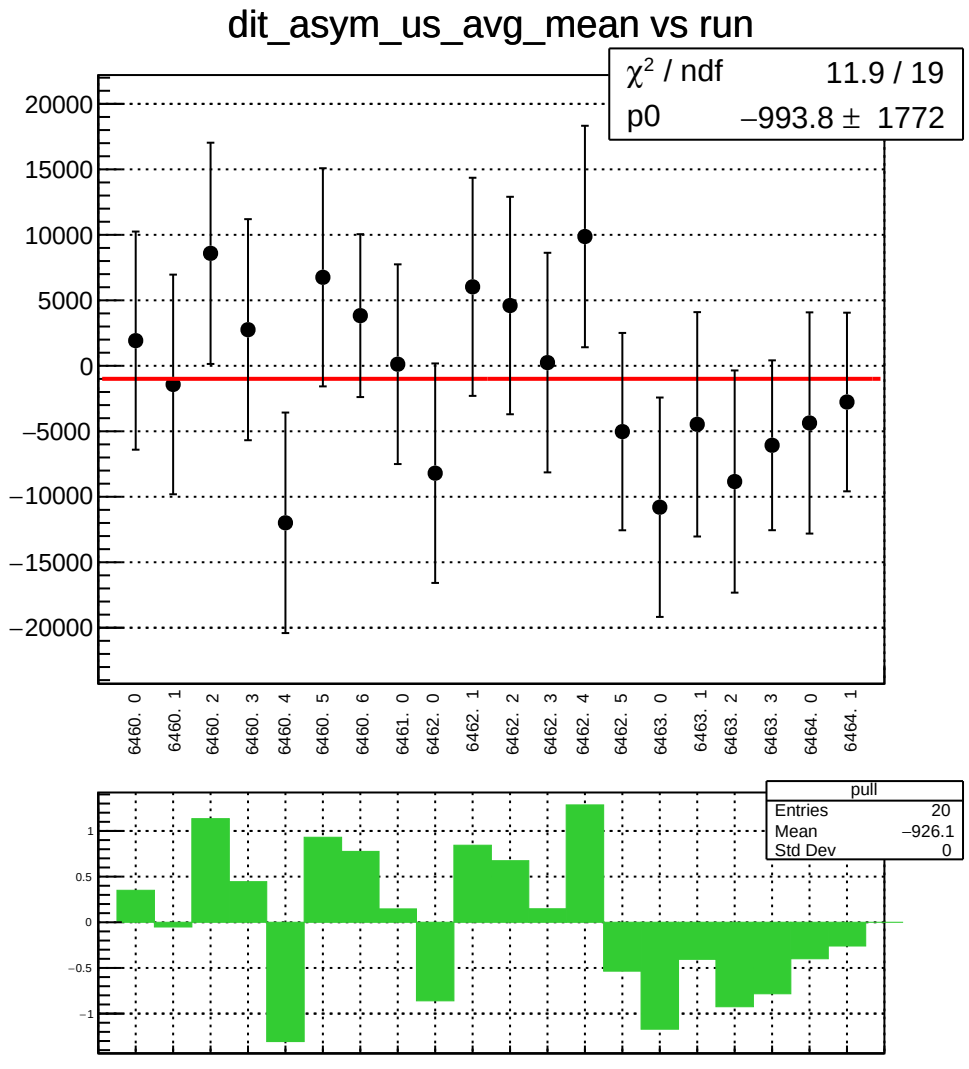

pull1D
Entries 20
Mean 0.002558
Std Dev 0.7613
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

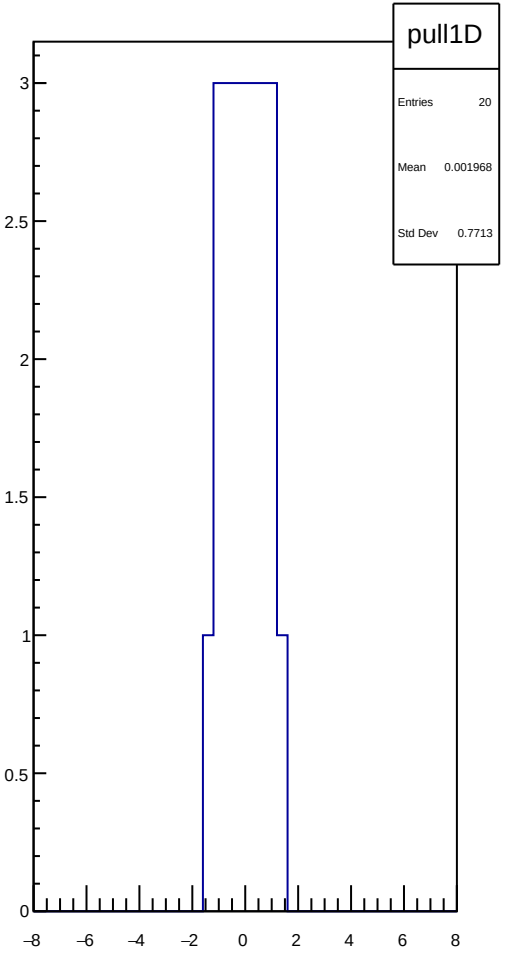

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 22.24 / 19
p0 787.4 ± 1.237
805
800
795
790
785
780
775
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

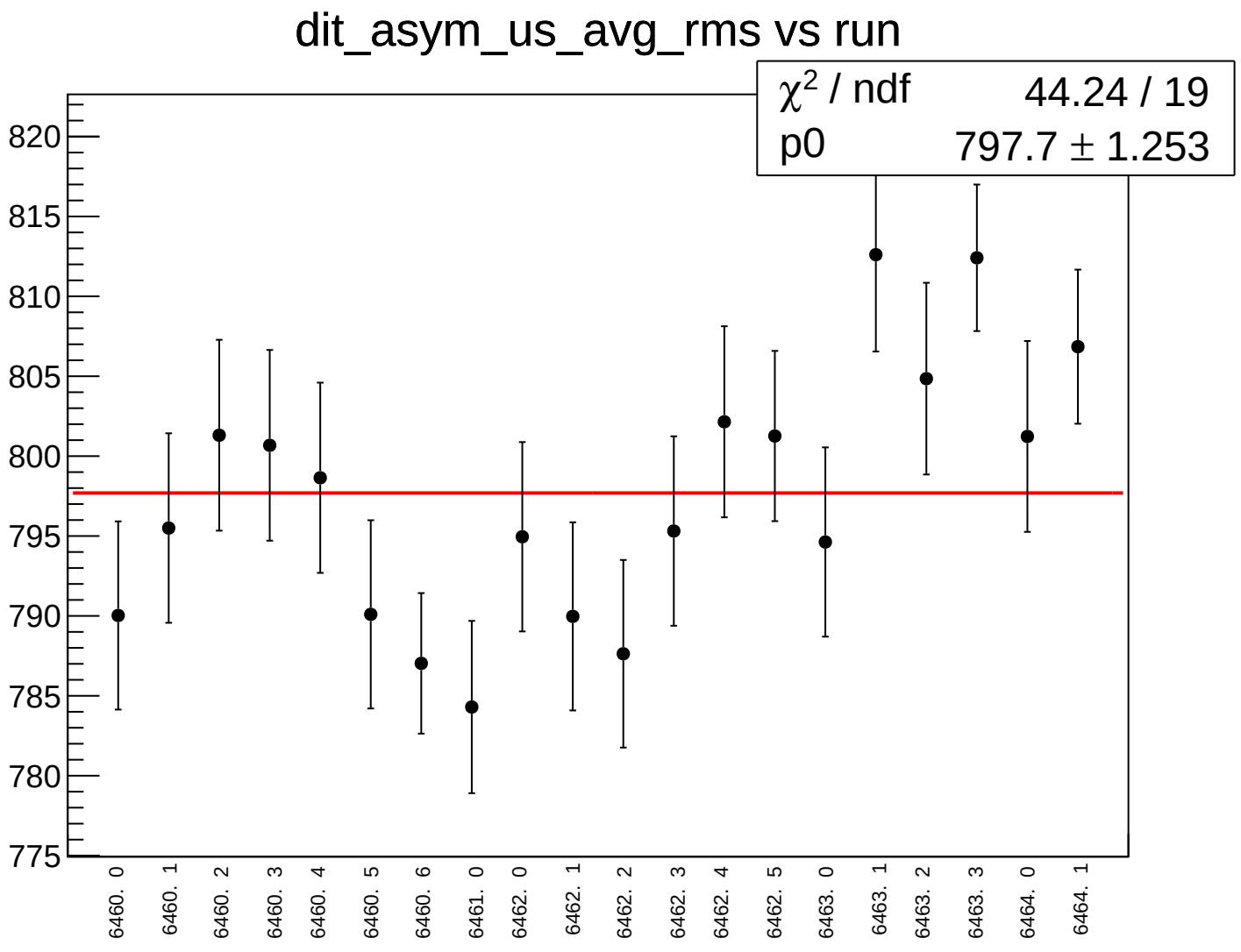

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.57 / 19
p0 2819 ± 3032
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.35
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

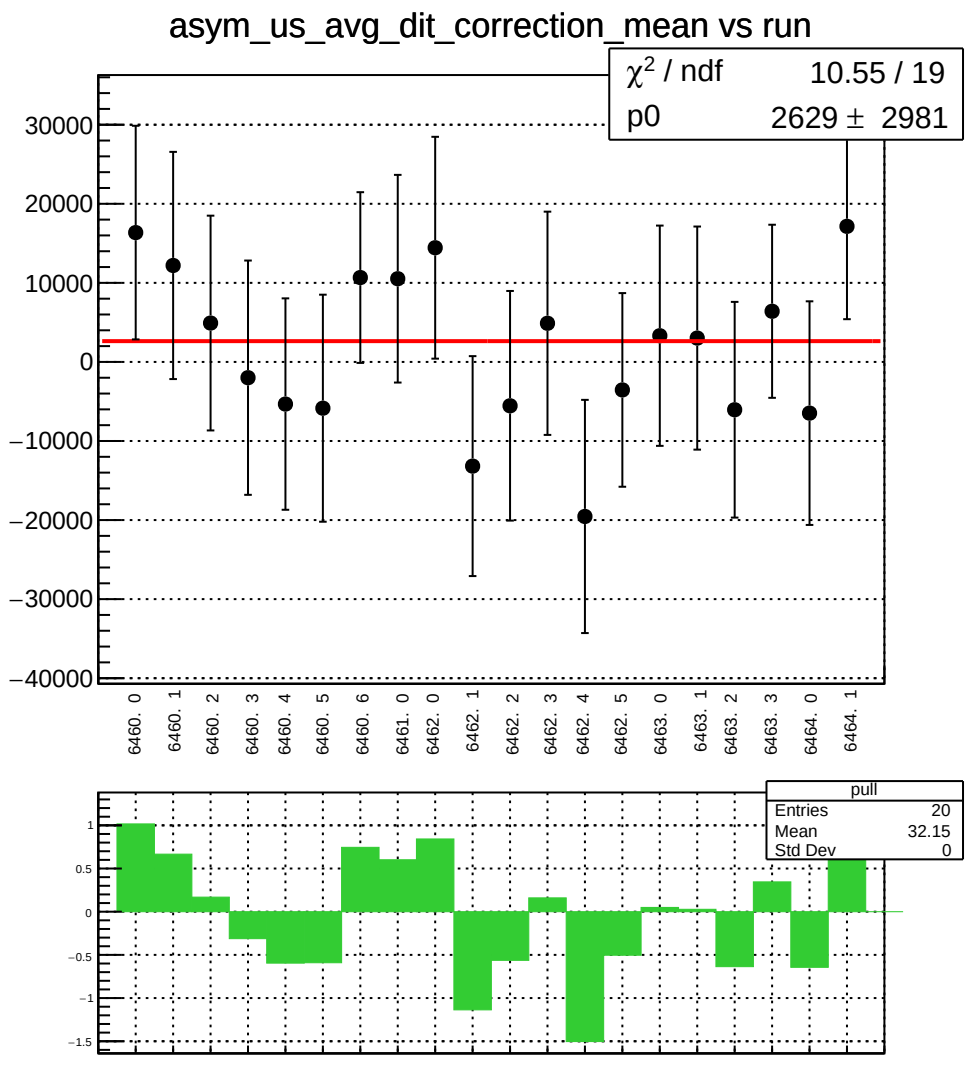

pull1D
Entries 20
Mean −0.03286
Std Dev 0.7262
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

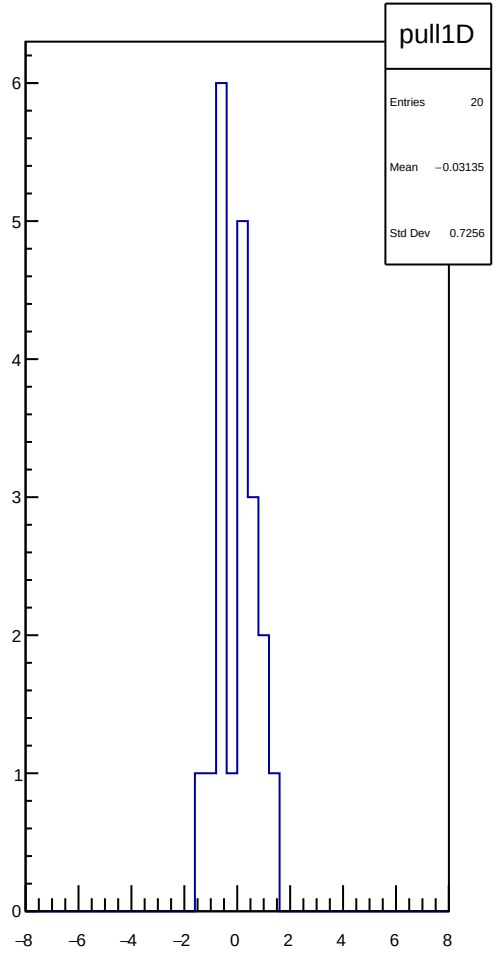

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1020 / 19
p0 1363 ± 2.144
1500
1450
1400
1350
1300
1250
1200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

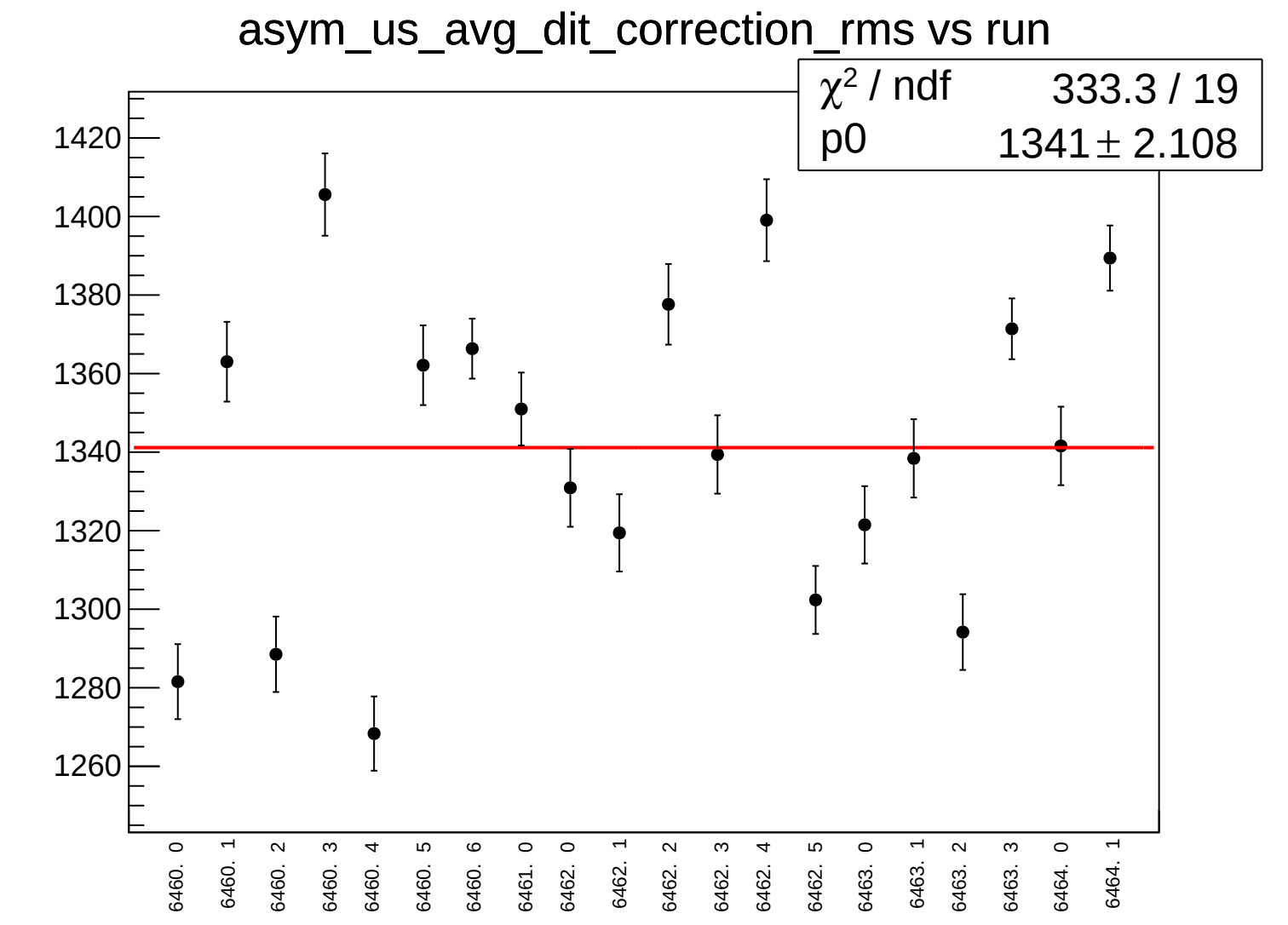

dit_asym_us_avg_mean vs run
χ² / ndf 11.9 / 19
p0 −993.8 ± 1772
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −926.1
Std Dev 0
1
0.5
0
−0.5
−1

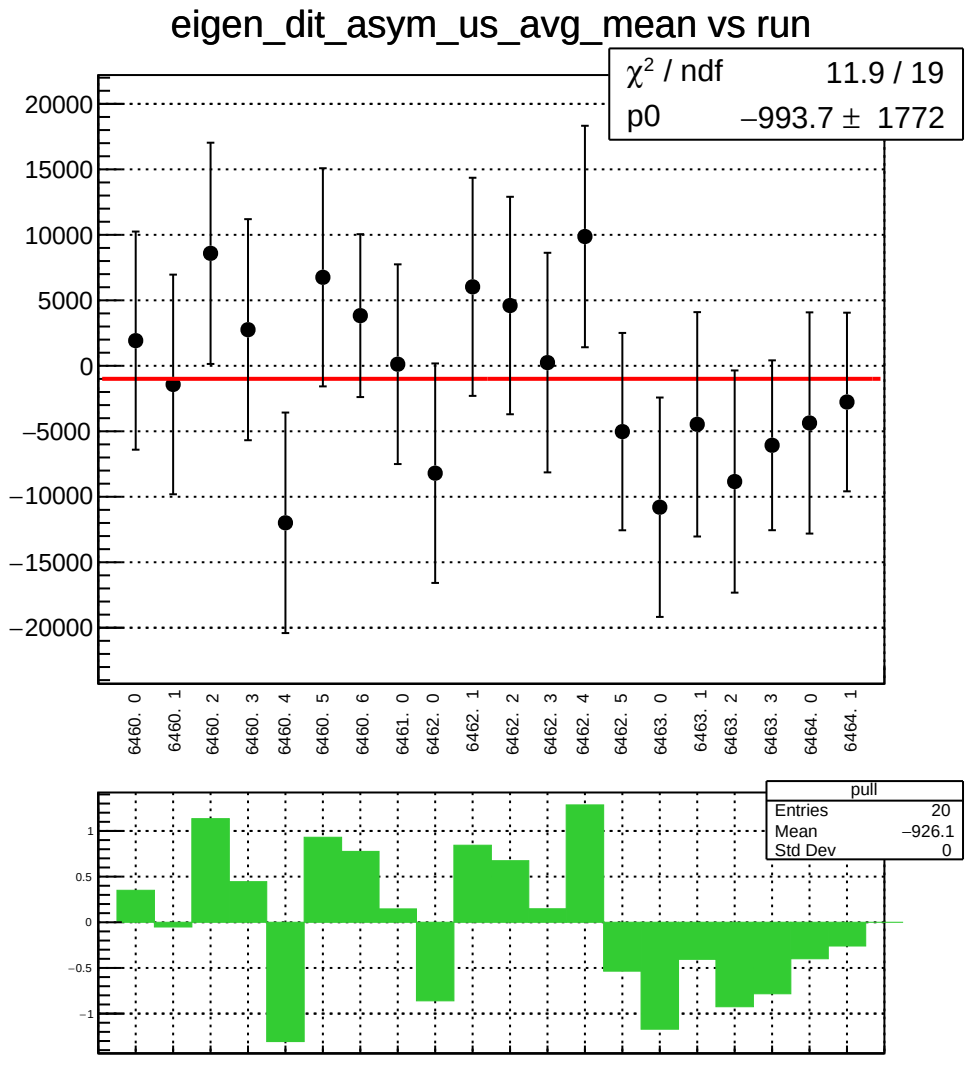

pull1D
Entries 20
Mean 0.001968
Std Dev 0.7713
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

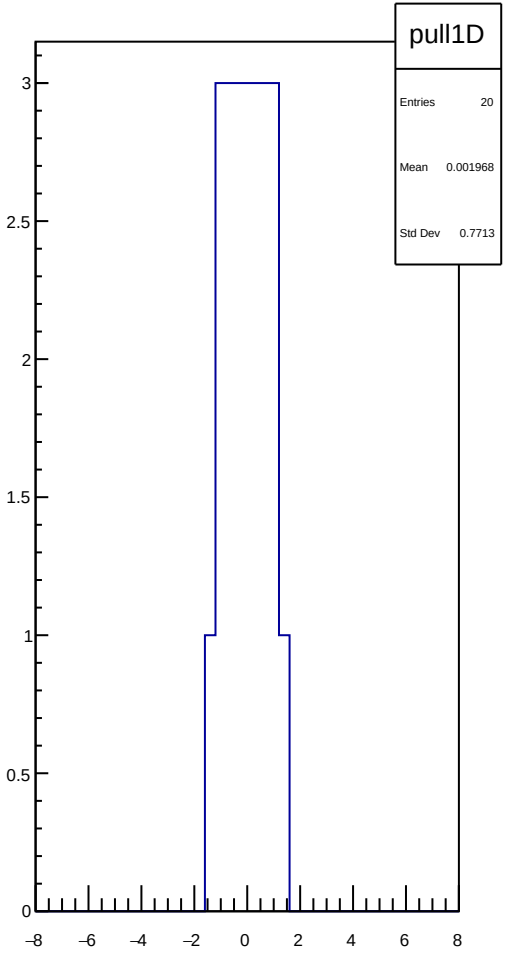

dit_asym_us_avg_rms vs run
χ² / ndf 44.24 / 19
p0 797.7 ± 1.253
820
815
810
805
800
795
790
785
780
775
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

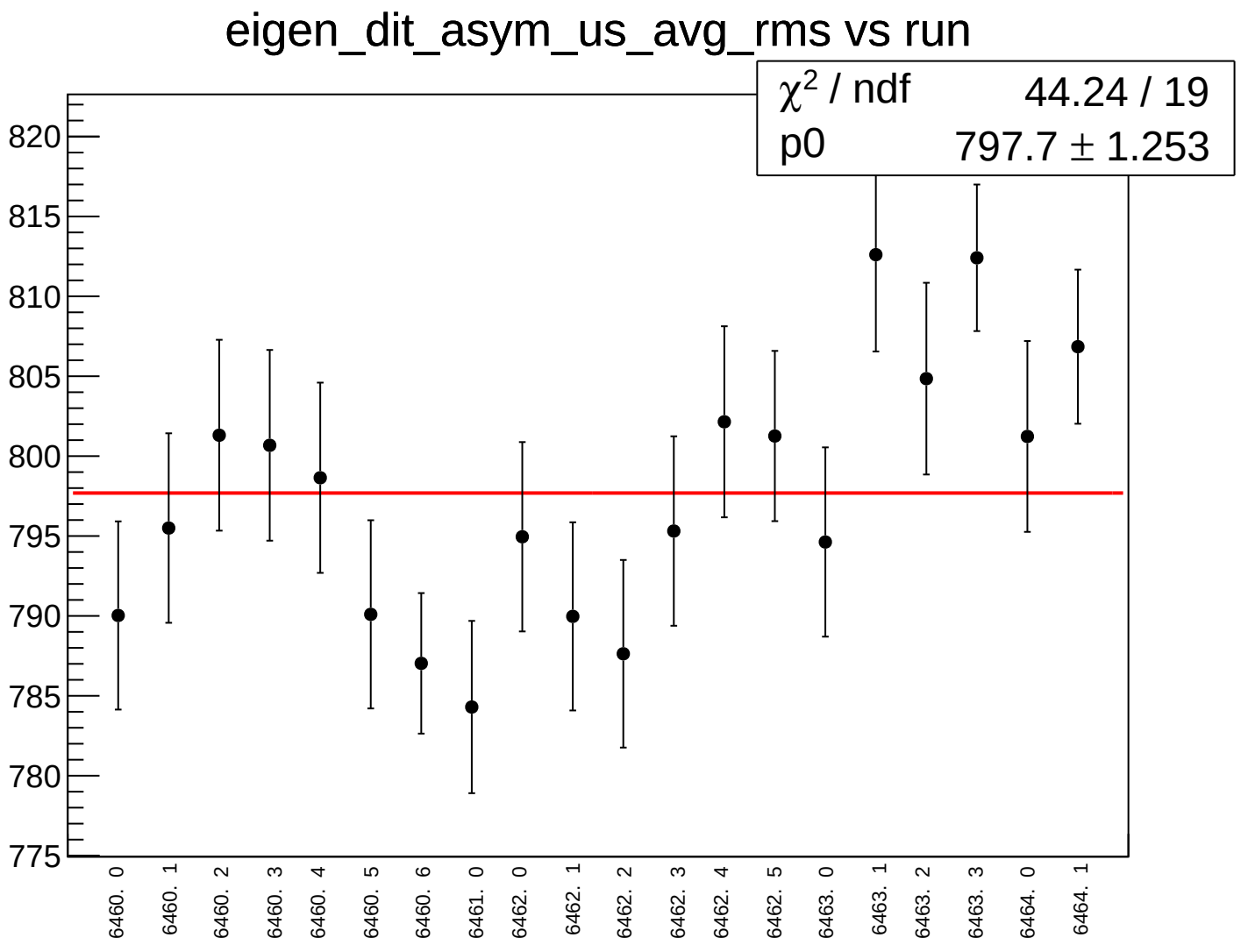

asym_us_avg_dit_correction_mean vs run
χ² / ndf 10.55 / 19
p0 2629 ± 2981
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.15
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

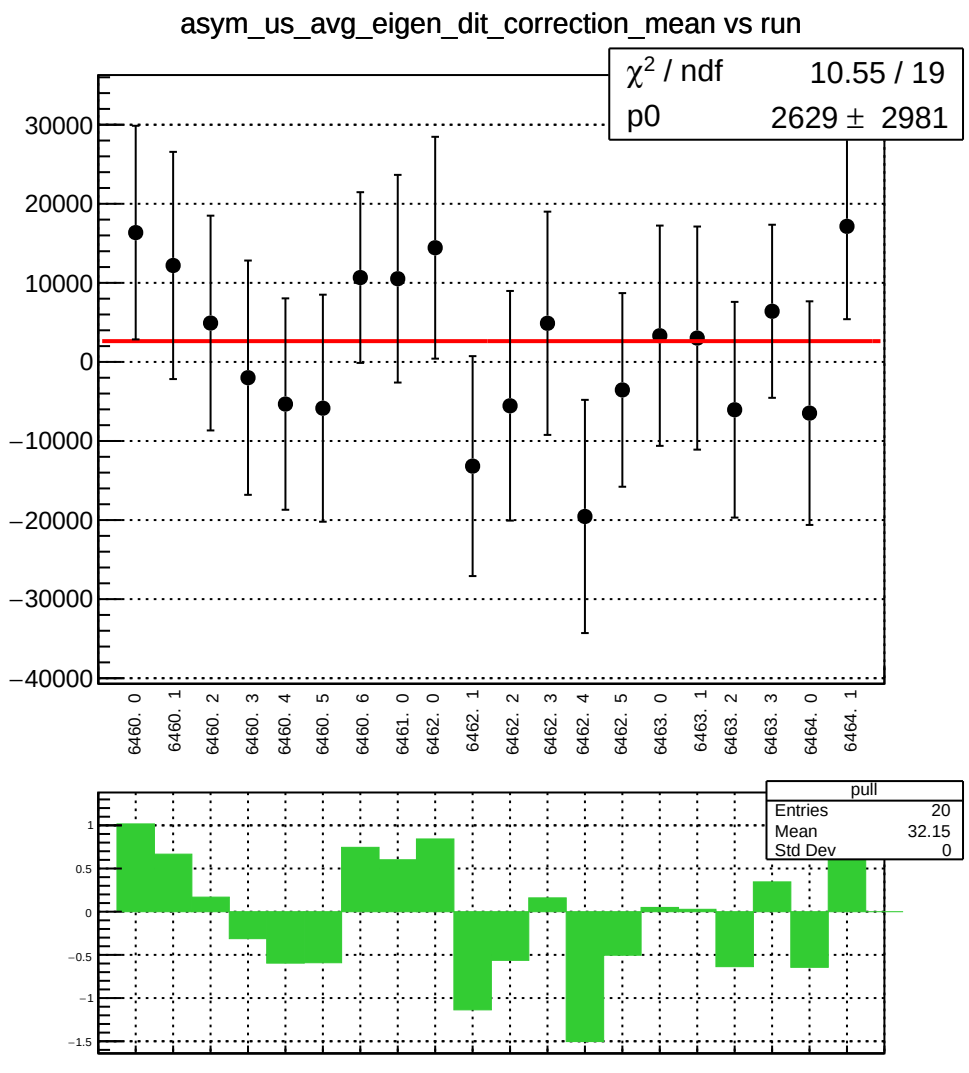

pull1D
Entries 20
Mean −0.03135
Std Dev 0.7256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

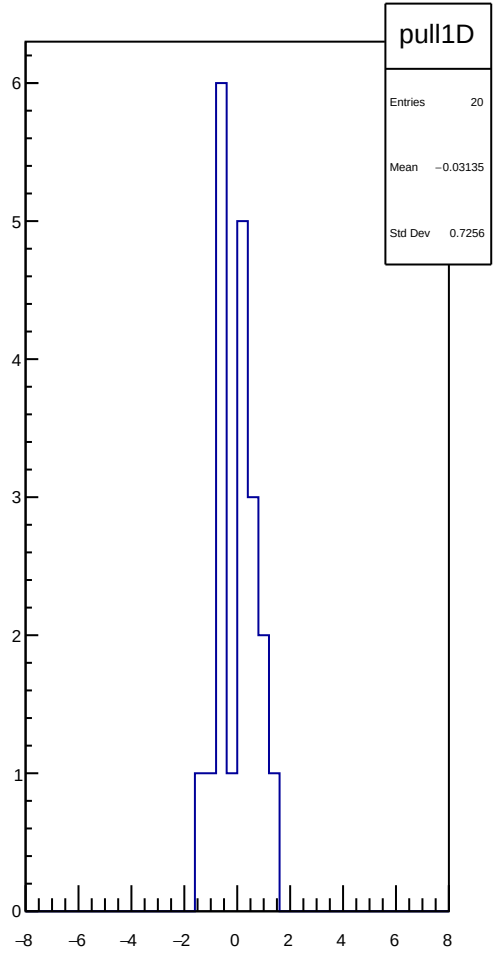

asym_us_avg_dit_correction_rms vs run
χ² / ndf 333.3 / 19
p0 1341 ± 2.108
1420
1400
1380
1360
1340
1320
1300
1280
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

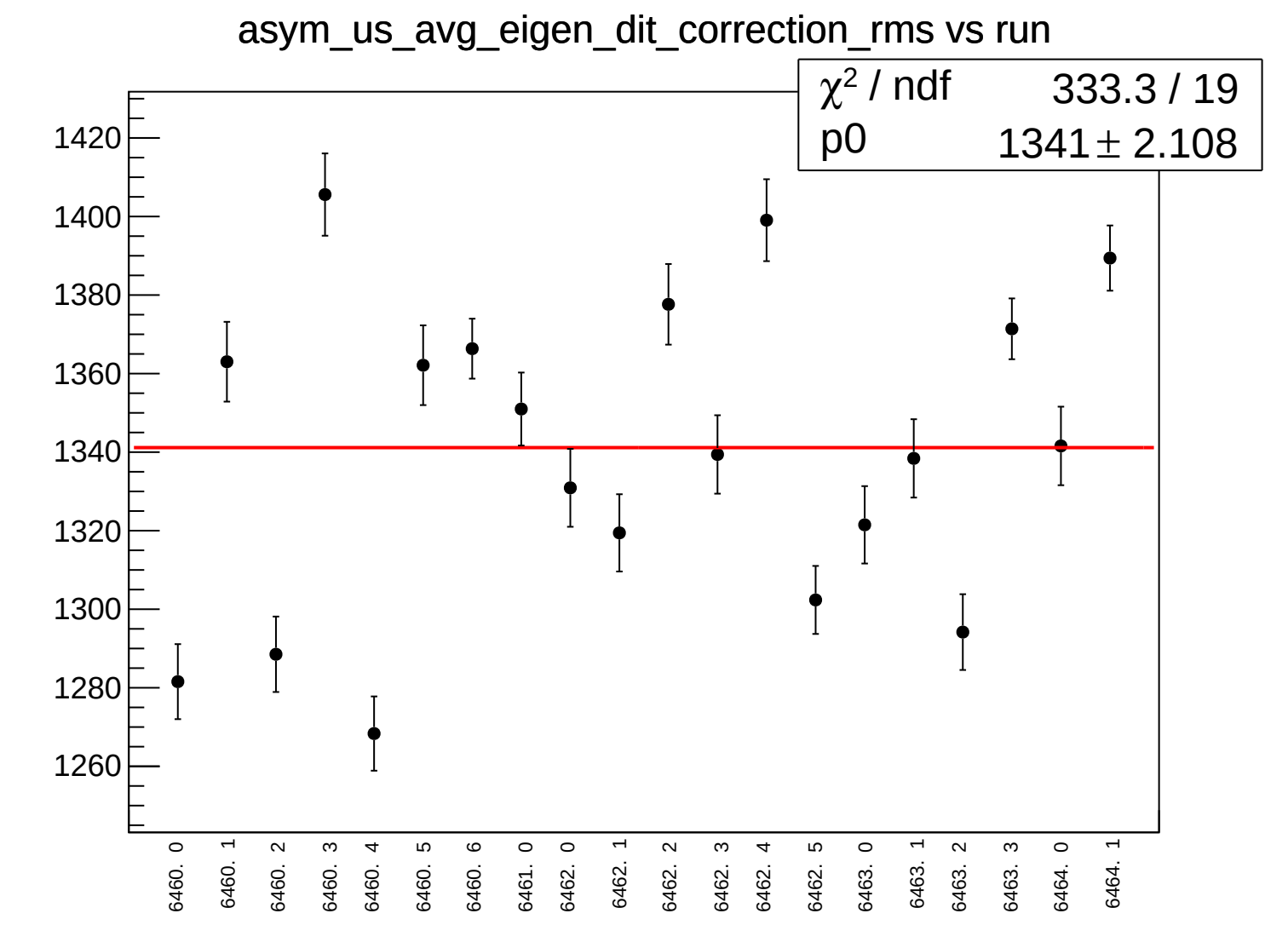

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 11.9 / 19
p0 −993.7 ± 1772
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −926.1
Std Dev 0
1
0.5
0
−0.5
−1

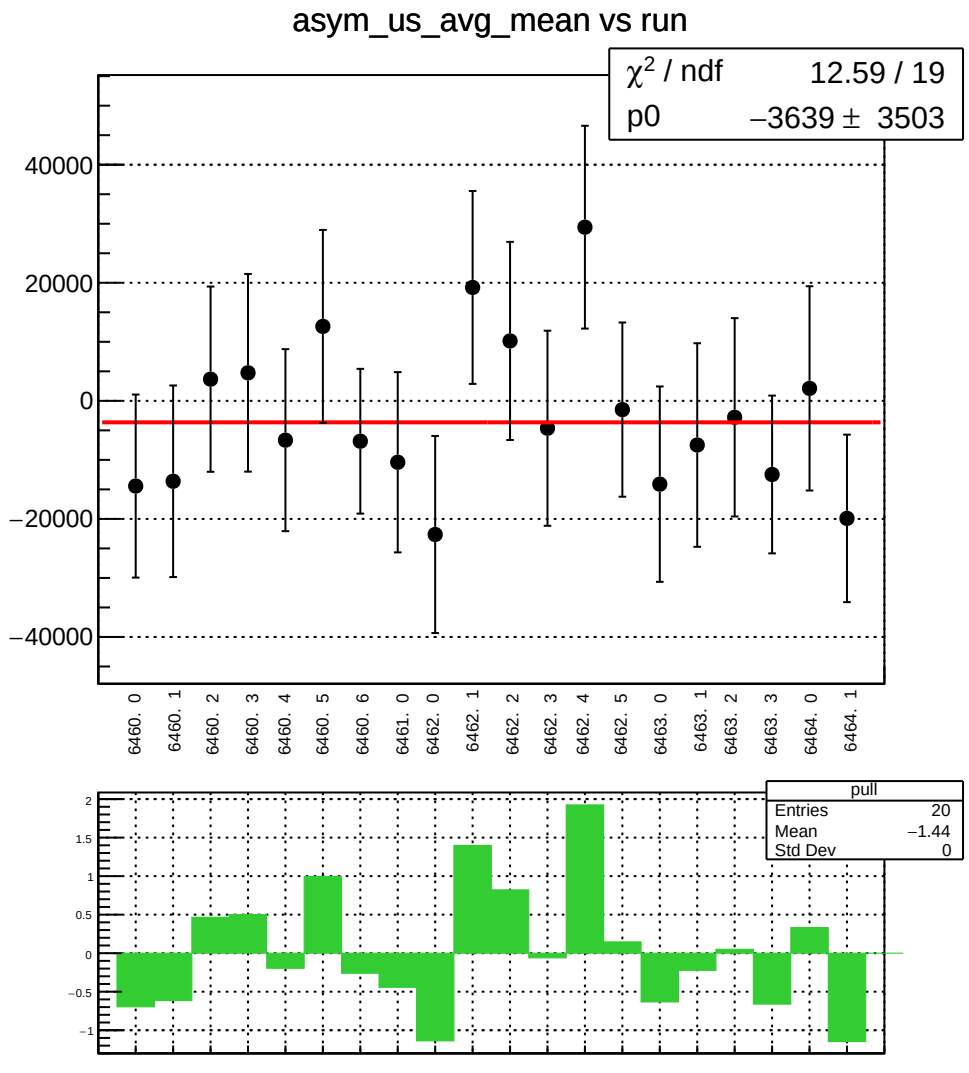

pull1D
Entries 20
Mean 0.001968
Std Dev 0.7713
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

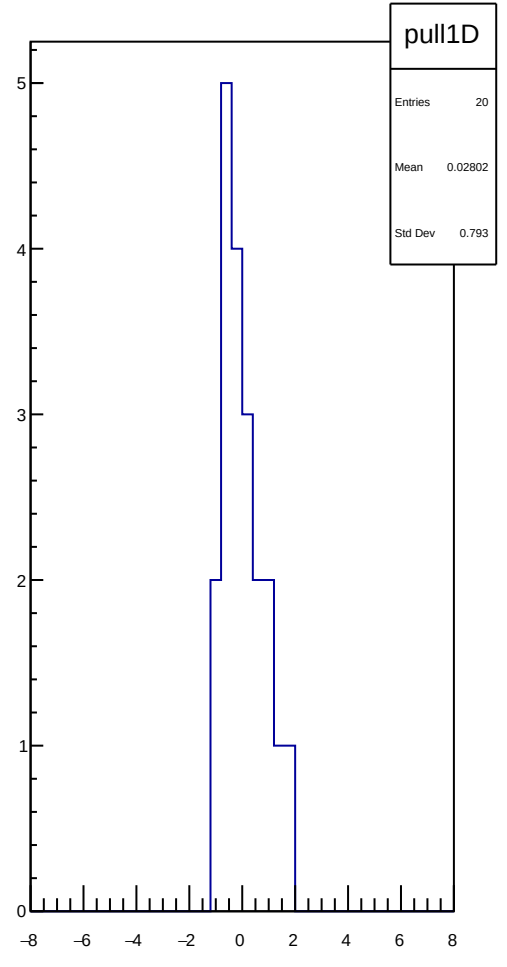

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 44.24 / 19
p0 797.7 ± 1.253
820
815
810
805
800
795
790
785
780
775
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

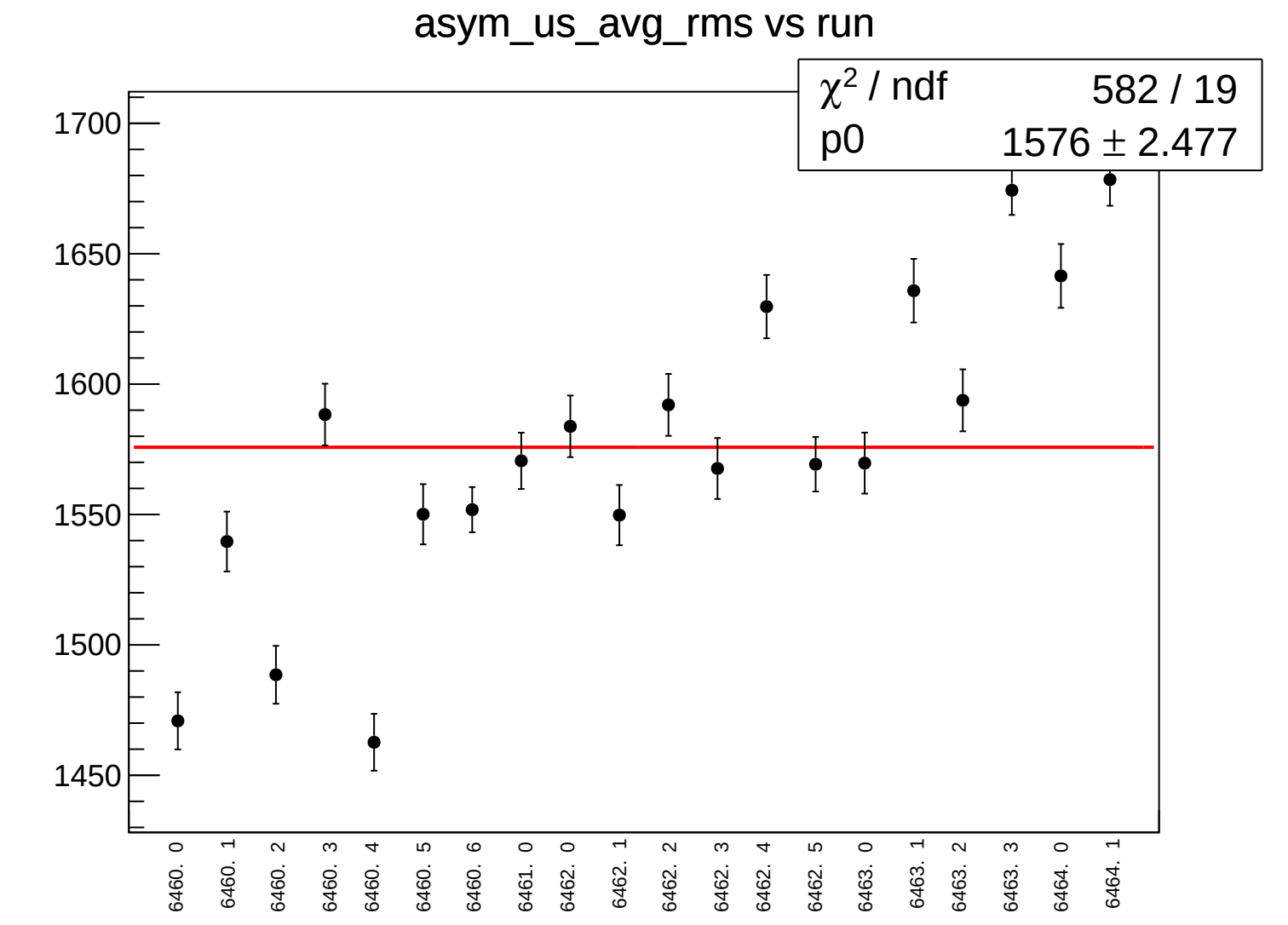

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.55 / 19
p0 2629 ± 2981
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.15
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

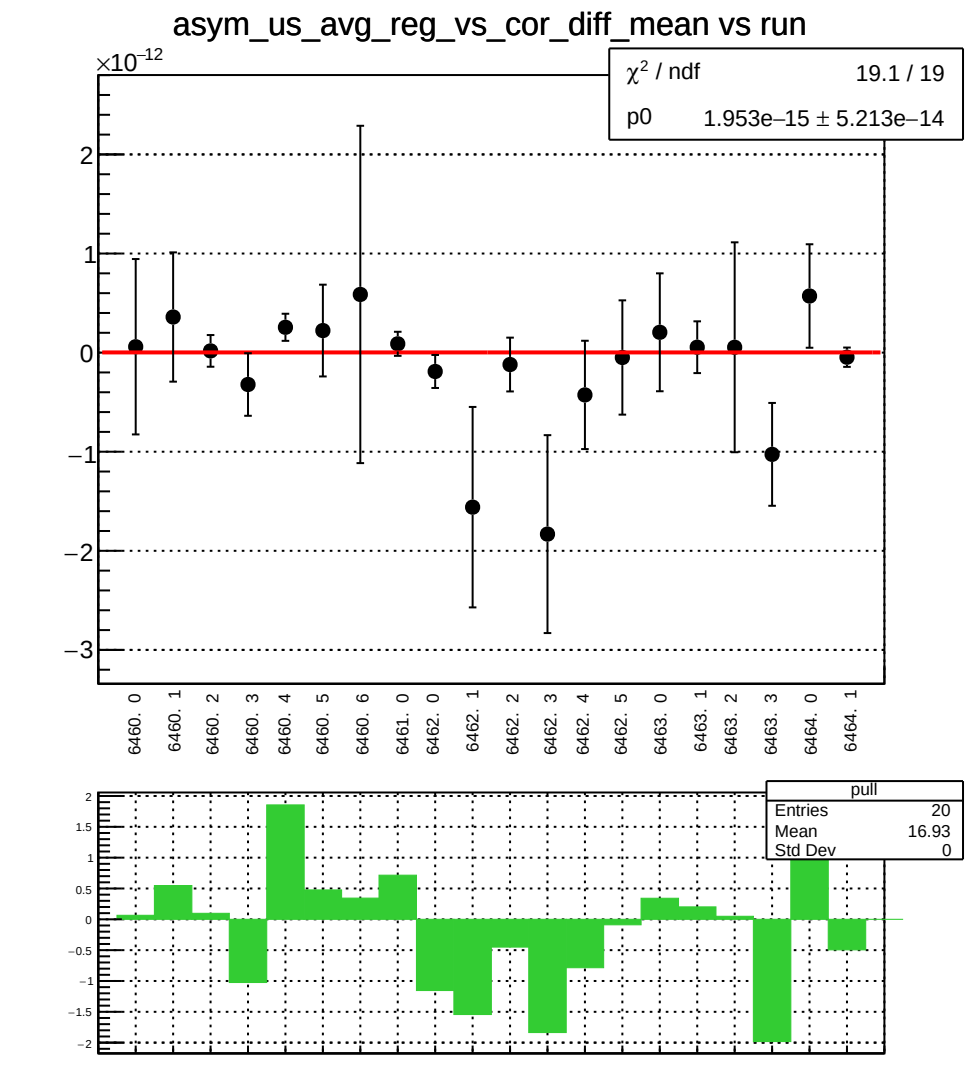

pull1D
Entries 20
Mean −0.03135
Std Dev 0.7256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

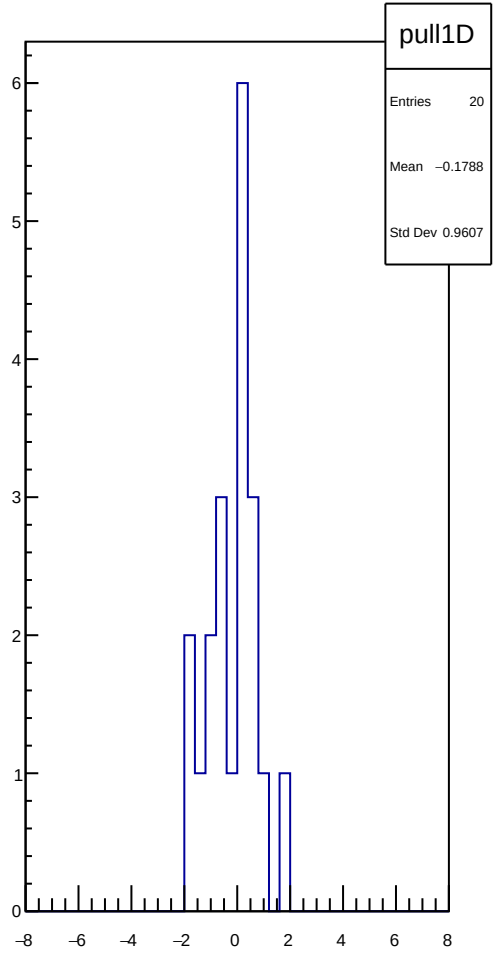

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 333.3 / 19
p0 1341 ± 2.108
1420
1400
1380
1360
1340
1320
1300
1280
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

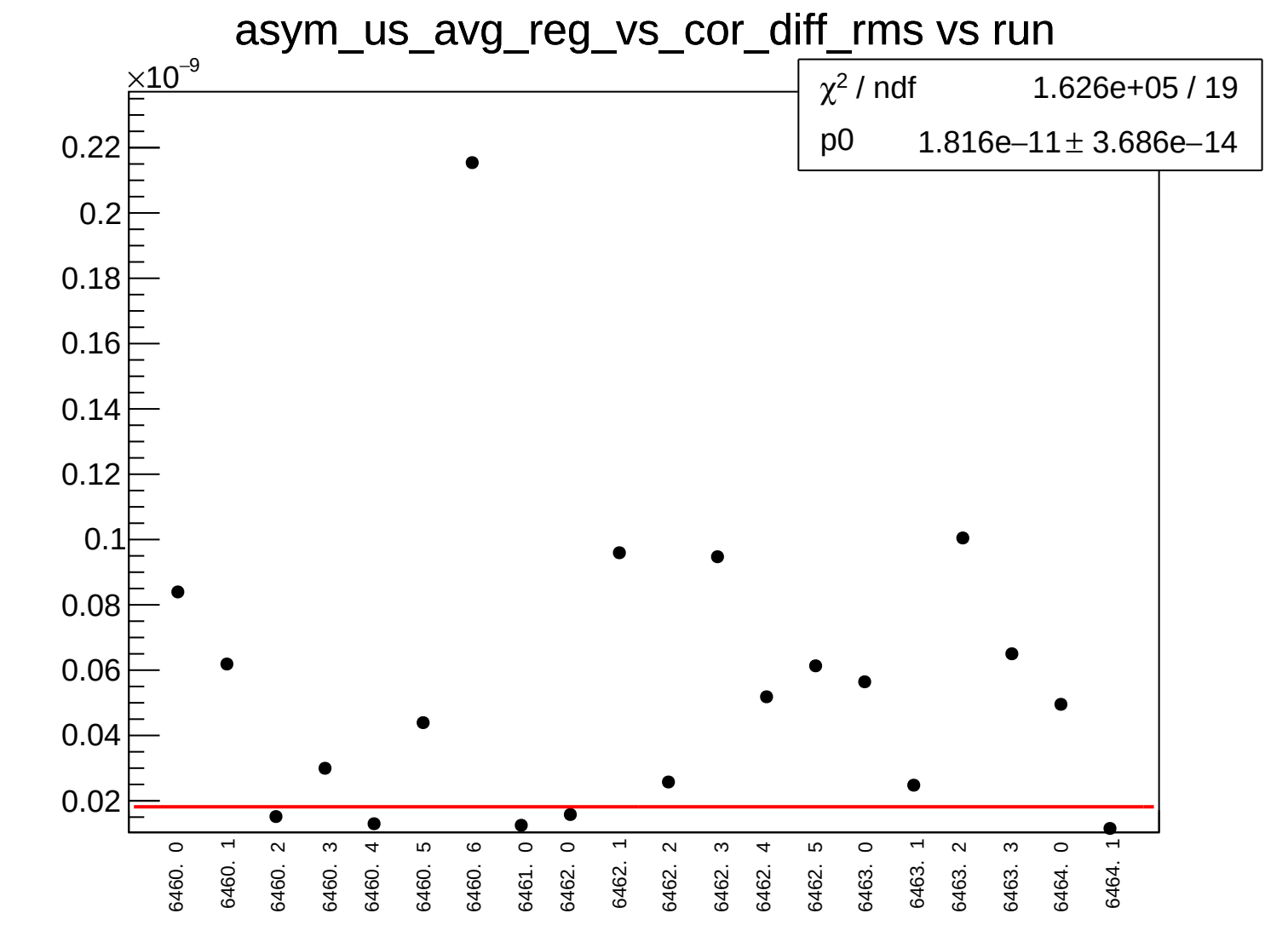

asym_us_avg_mean vs run
χ² / ndf 12.59 / 19
p0 −3639 ± 3503
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

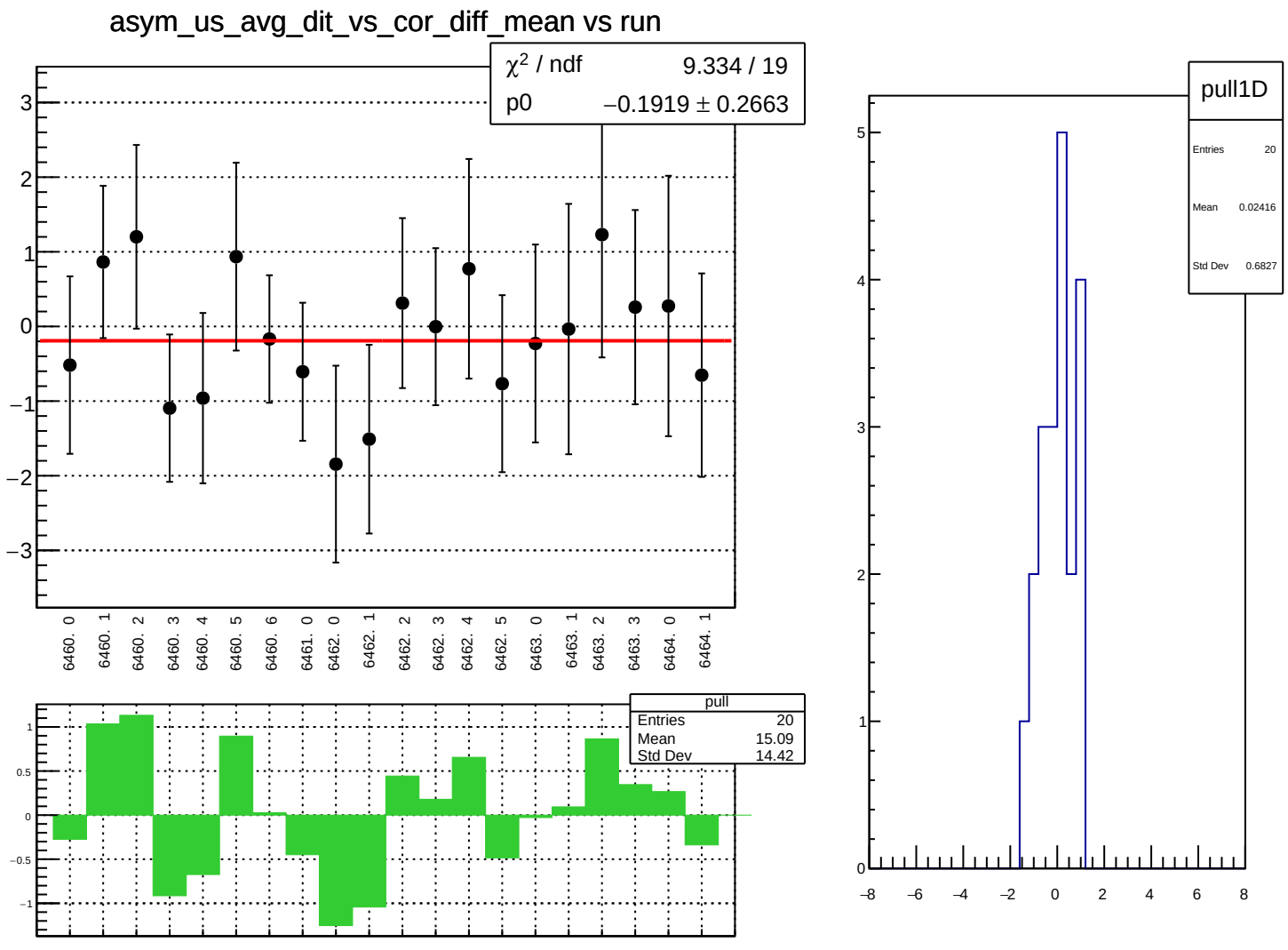

pull1D
Entries 20
Mean 0.02802
Std Dev 0.793
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

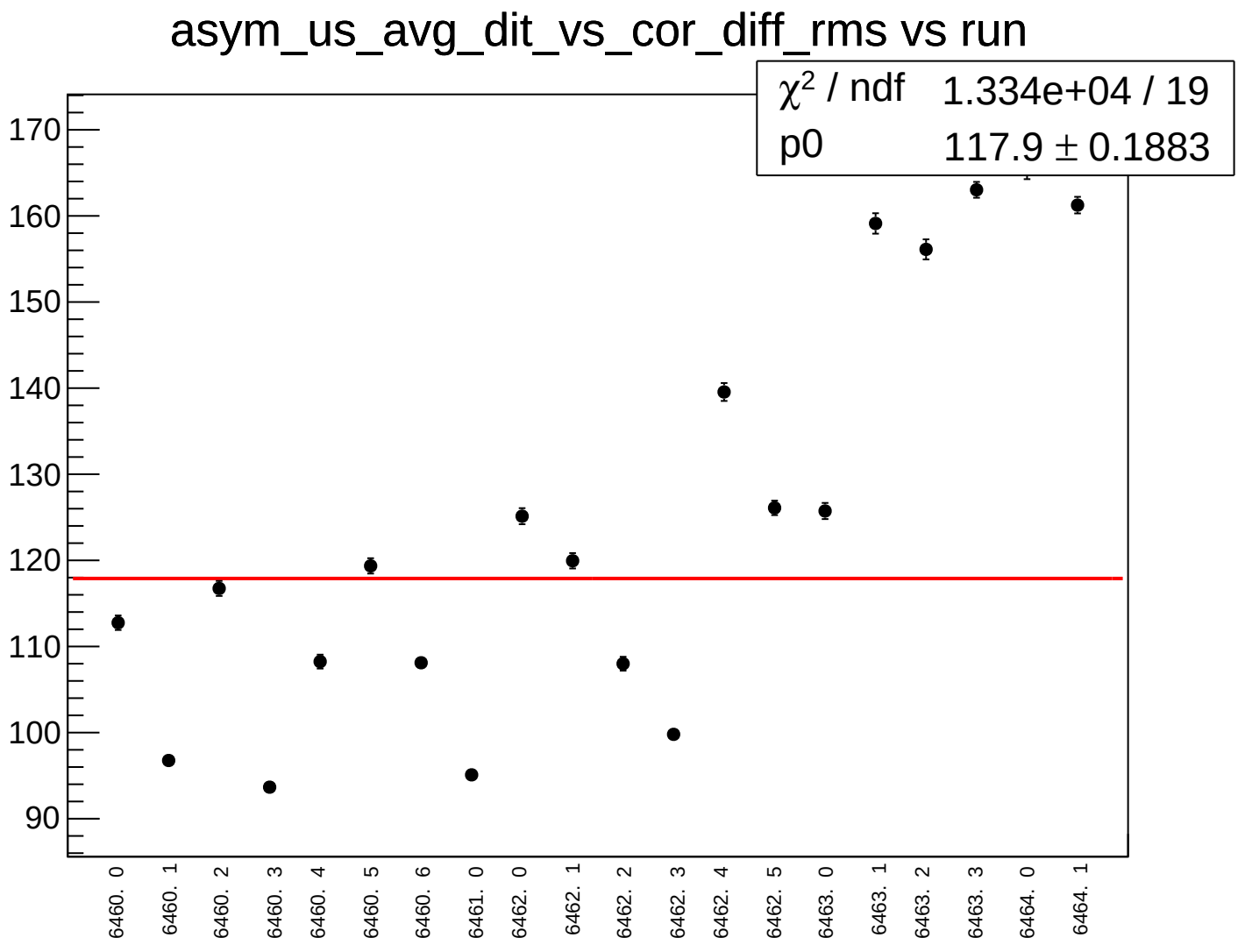

asym_us_avg_rms vs run
χ² / ndf 582 / 19
p0 1576 ± 2.477
1700
1650
1600
1550
1500
1450
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

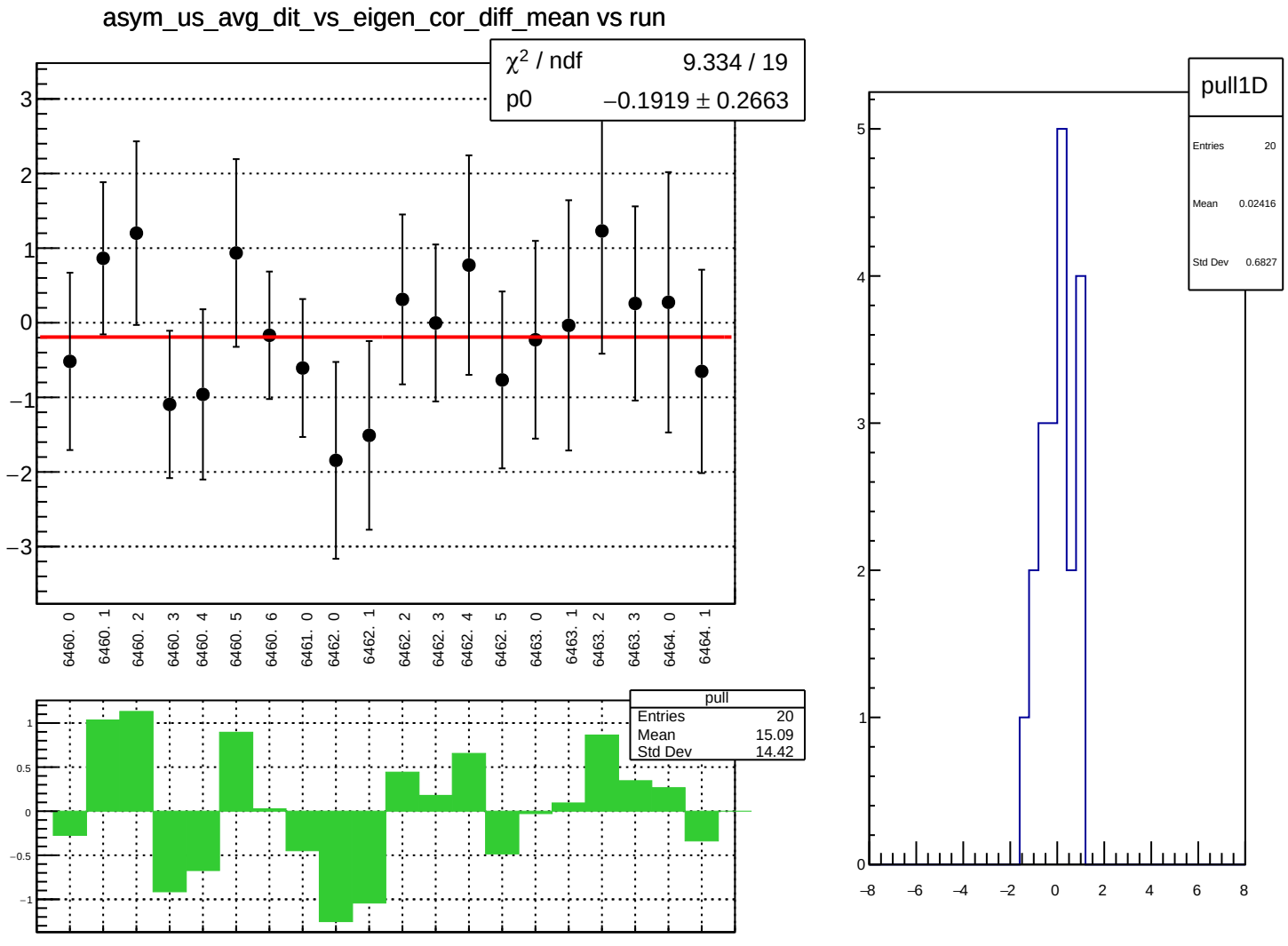

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.1 / 19
p0 1.953e−15 ± 5.213e−14
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

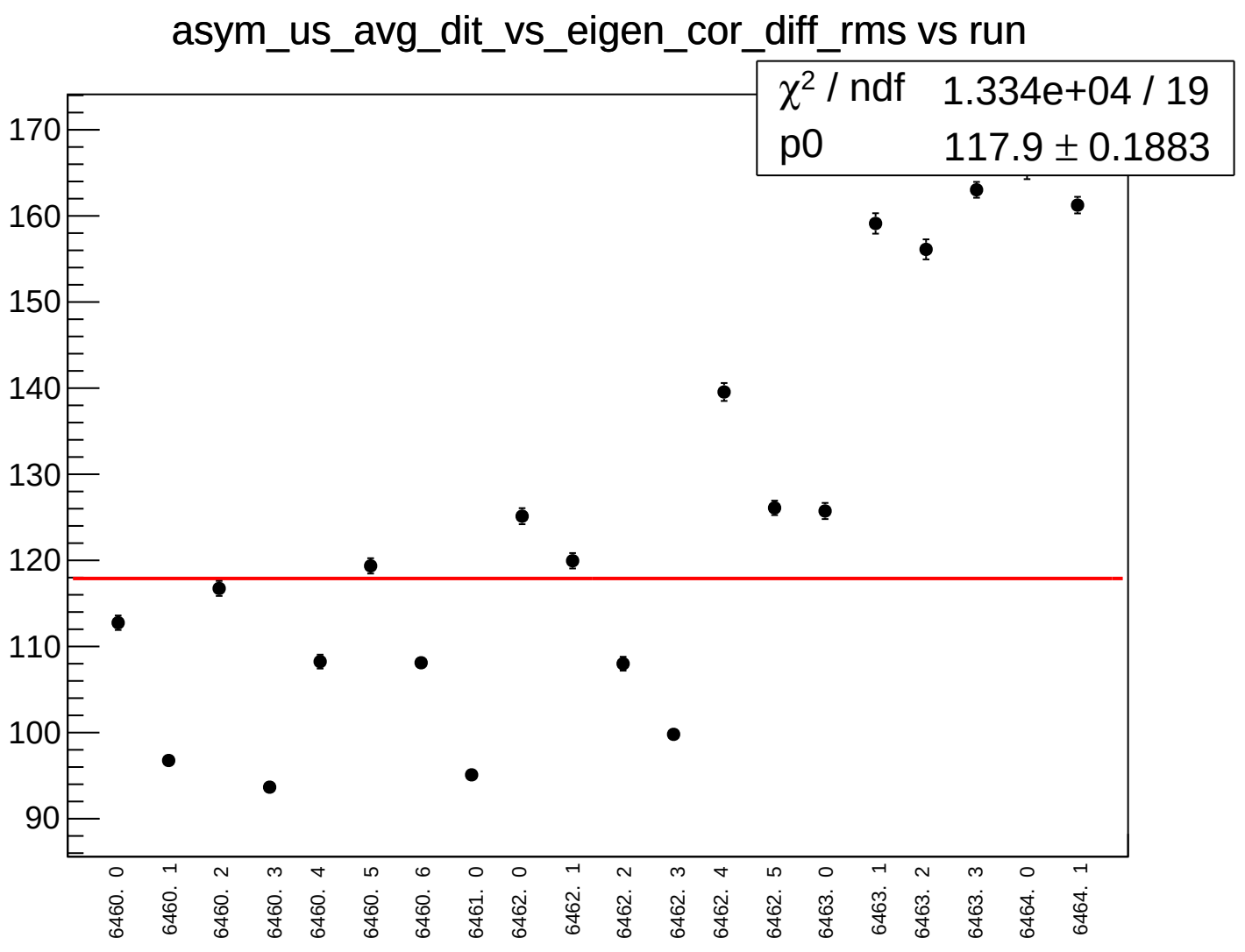

pull1D
Entries 20
Mean −0.1788
Std Dev 0.9607
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

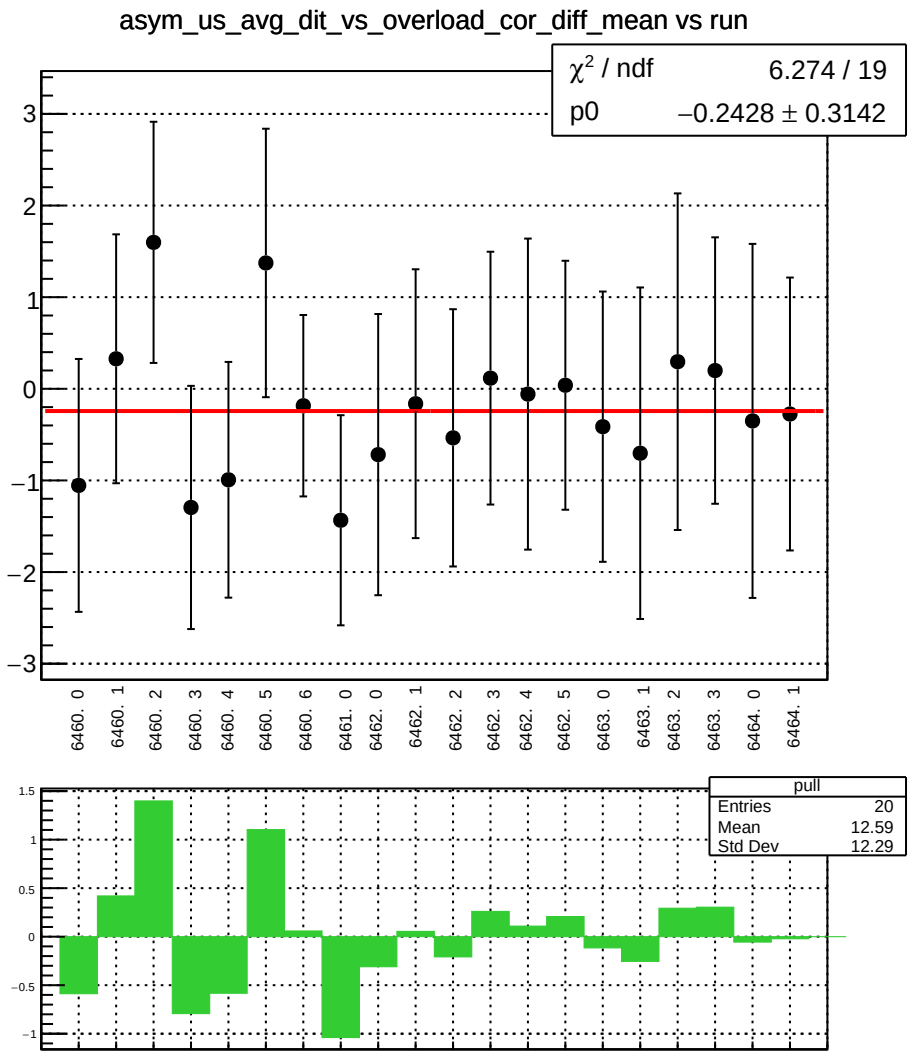

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.626e+05 / 19
p0 1.816e−11 ± 3.686e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

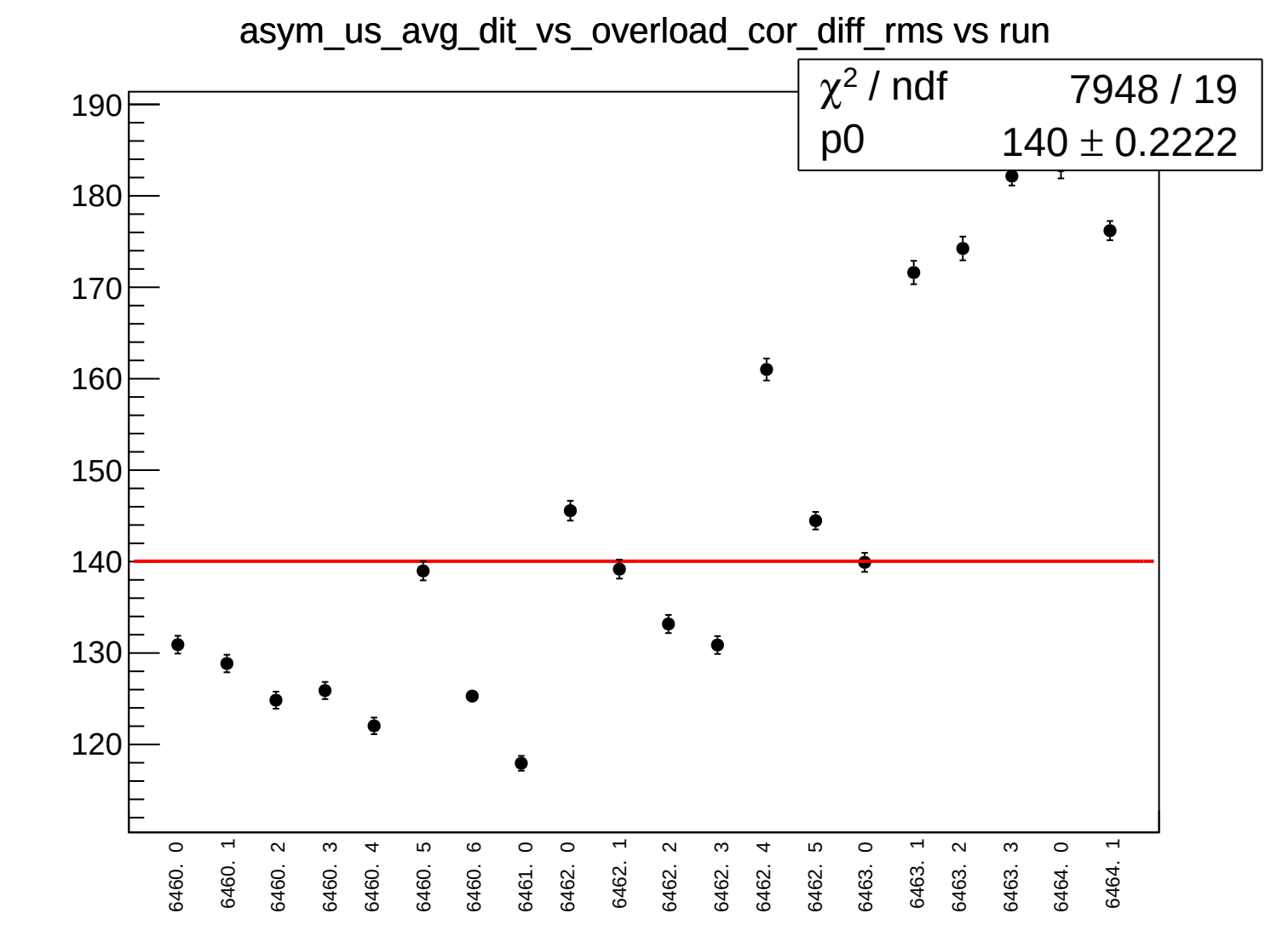

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 9.334 / 19
p0 −0.1919 ± 0.2663
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.09
Std Dev 14.42
pull1D
Entries 20
Mean 0.02416
Std Dev 0.6827

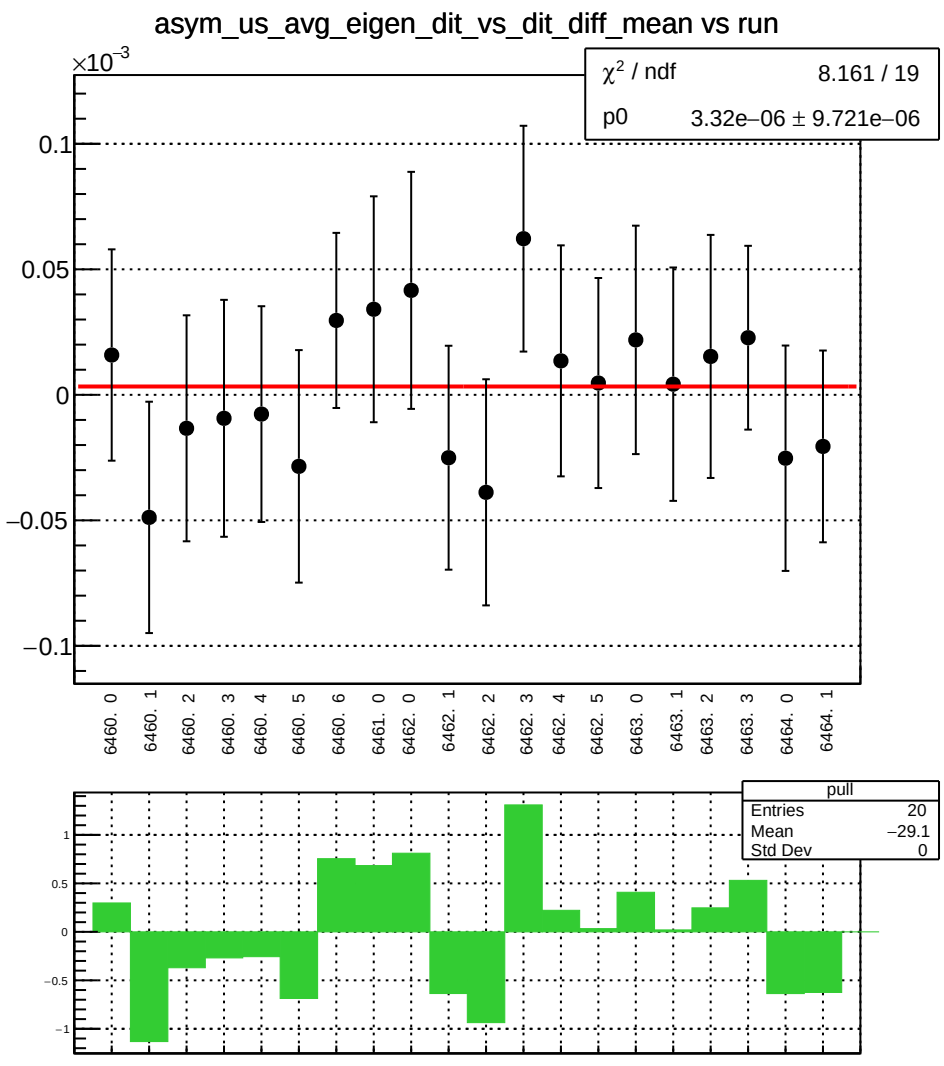

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.334e+04 / 19
p0 117.9 ± 0.1883
170
160
150
140
130
120
110
100
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

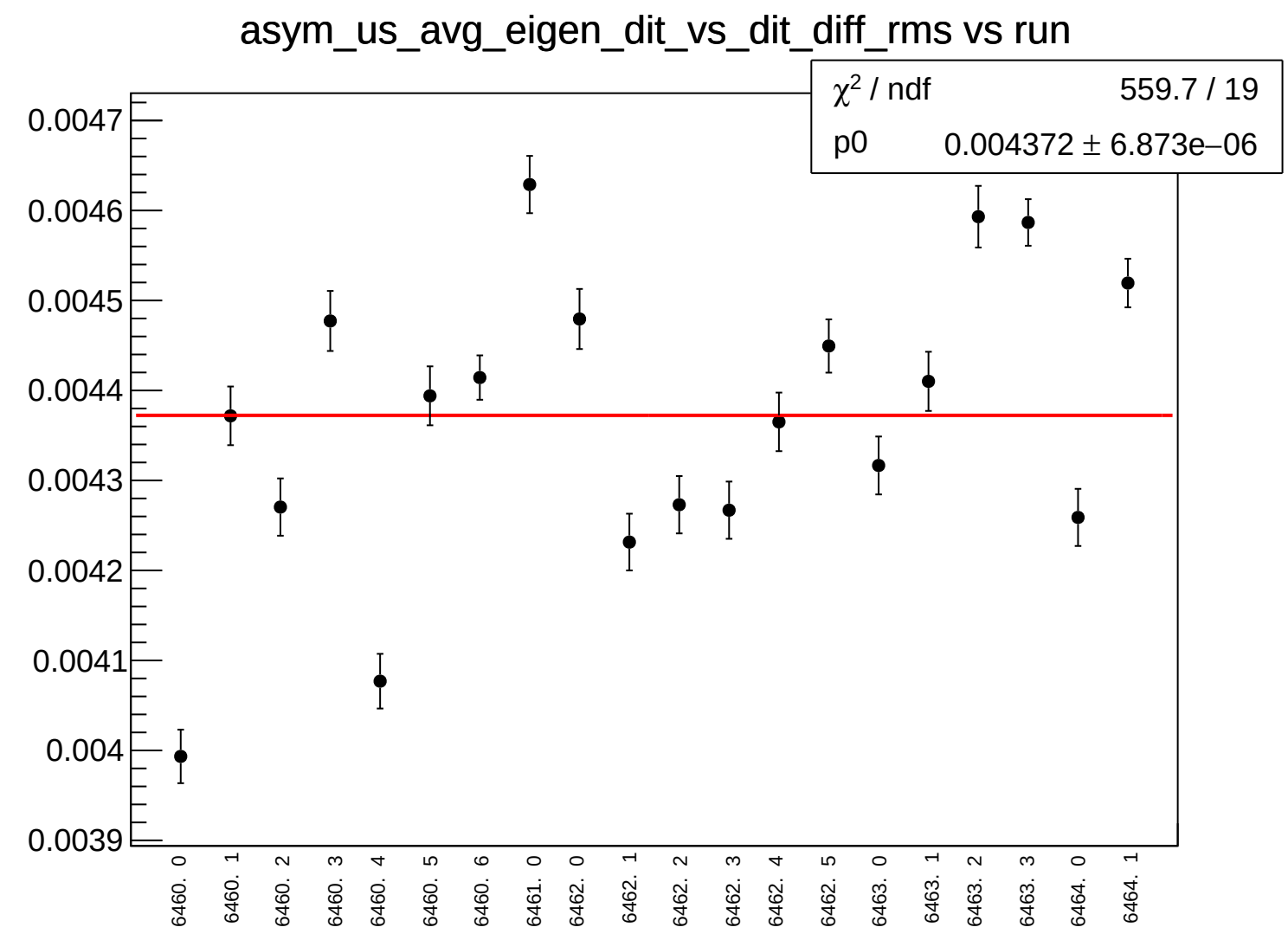

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 9.334 / 19
p0 −0.1919 ± 0.2663
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.09
Std Dev 14.42
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02416
Std Dev 0.6827
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

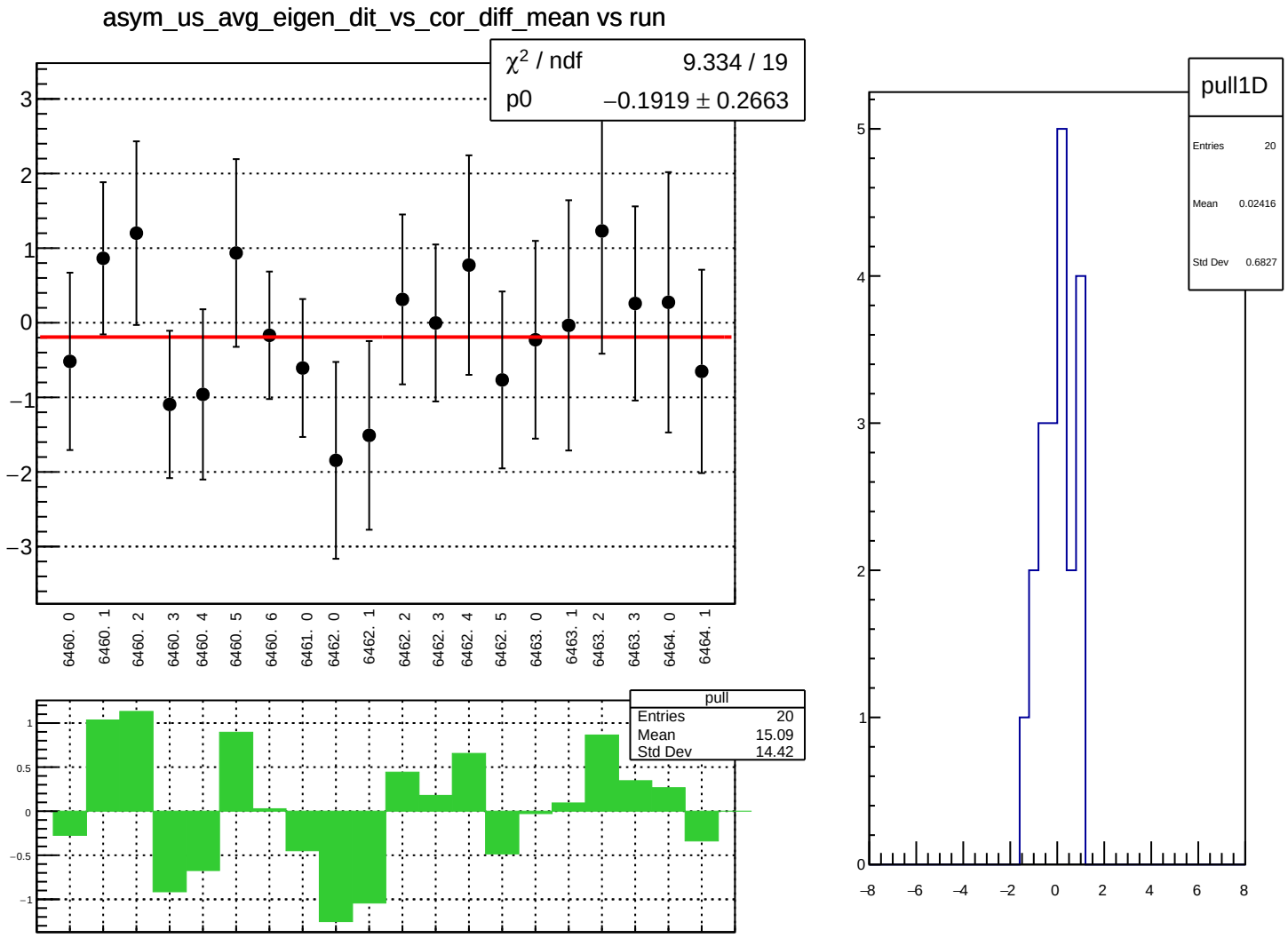

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.334e+04 / 19
p0 117.9 ± 0.1883
170
160
150
140
130
120
110
100
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

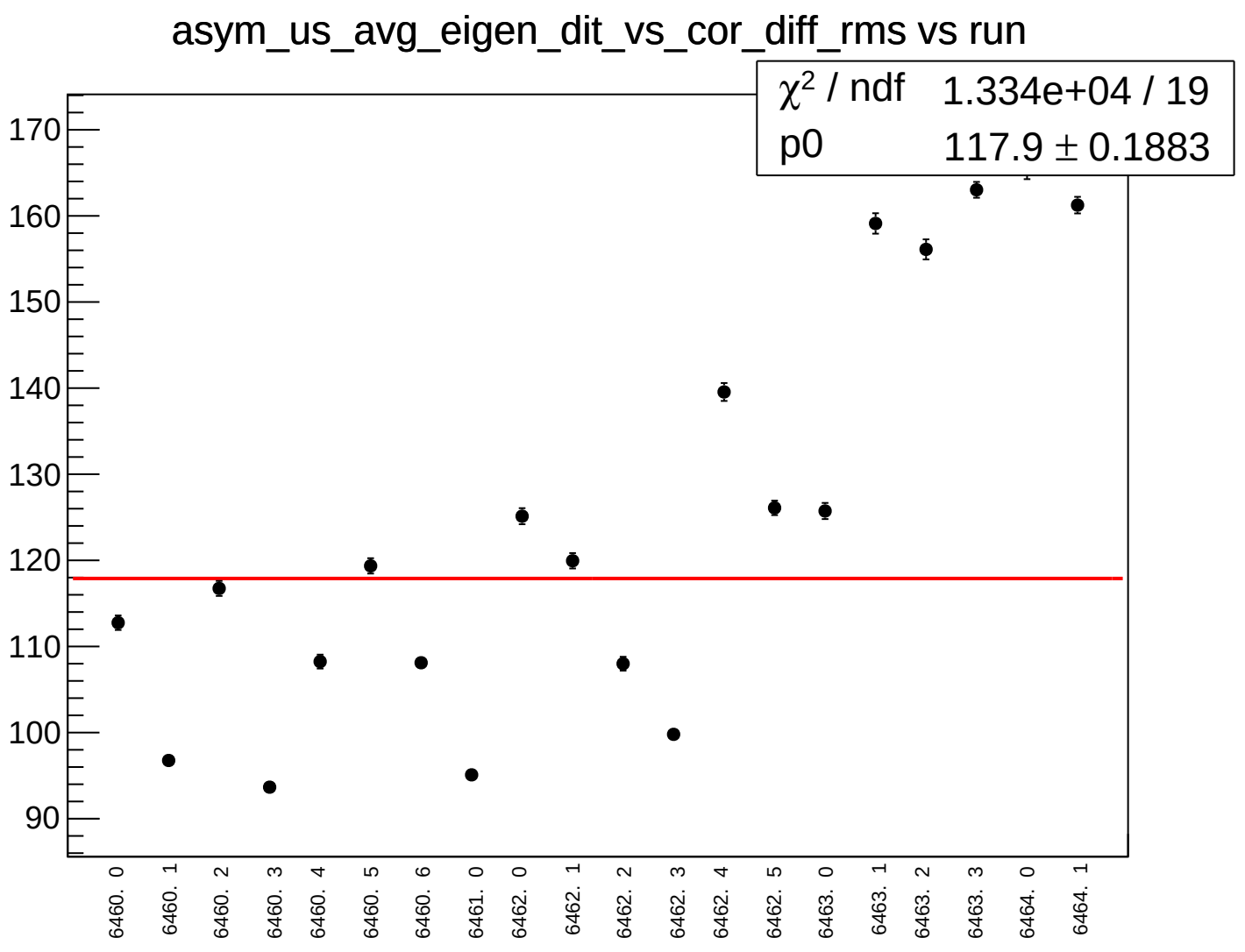

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 6.274 / 19
p0 −0.2428 ± 0.3142
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.59
Std Dev 12.29
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01202
Std Dev 0.56
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

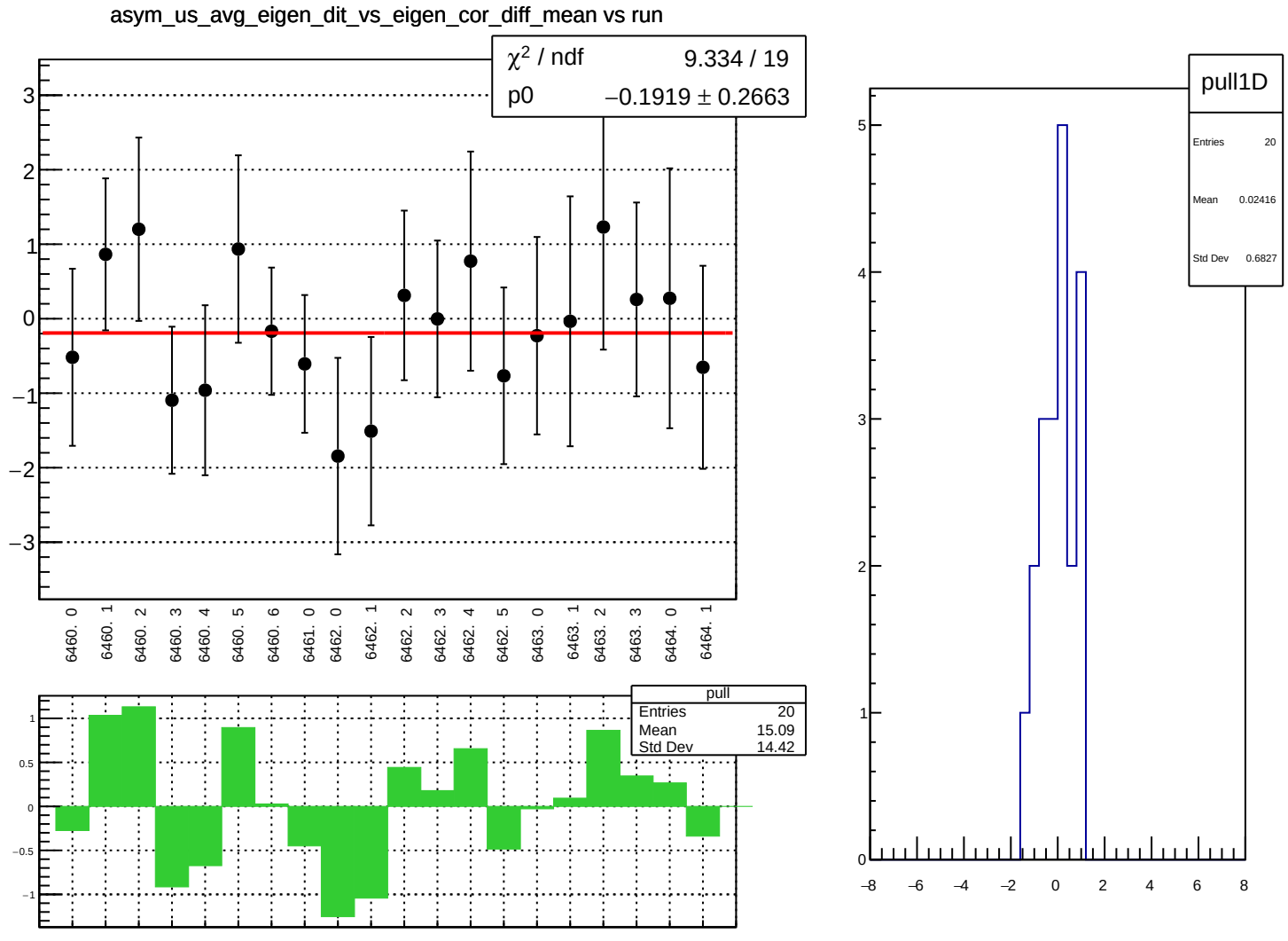

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7948 / 19
p0 140 ± 0.2222
190
180
170
160
150
140
130
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

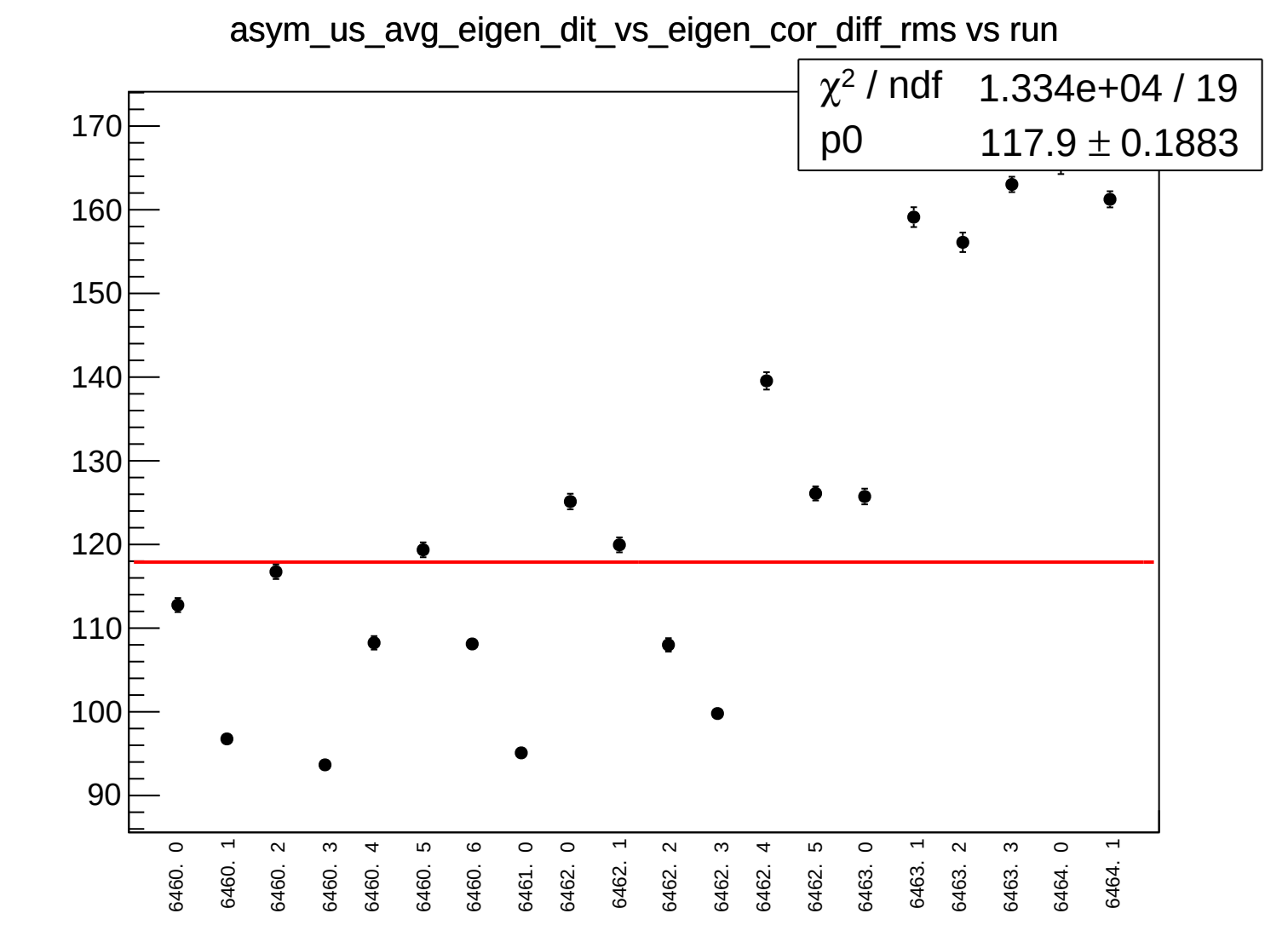

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 8.161 / 19
p0 3.32e−06 ± 9.721e−06
0.1
0.05
0
−0.05
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.0114
Std Dev 0.6387
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

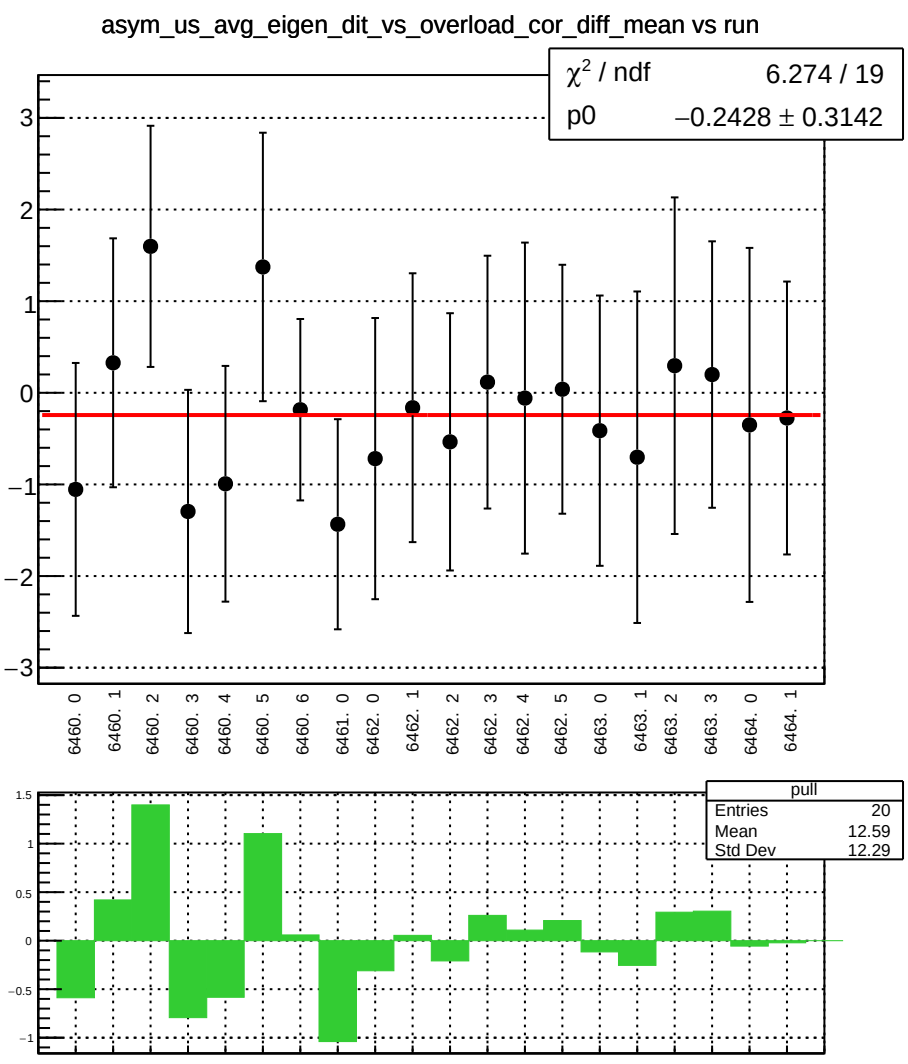

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 559.7 / 19
p0 0.004372 ± 6.873e−06
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

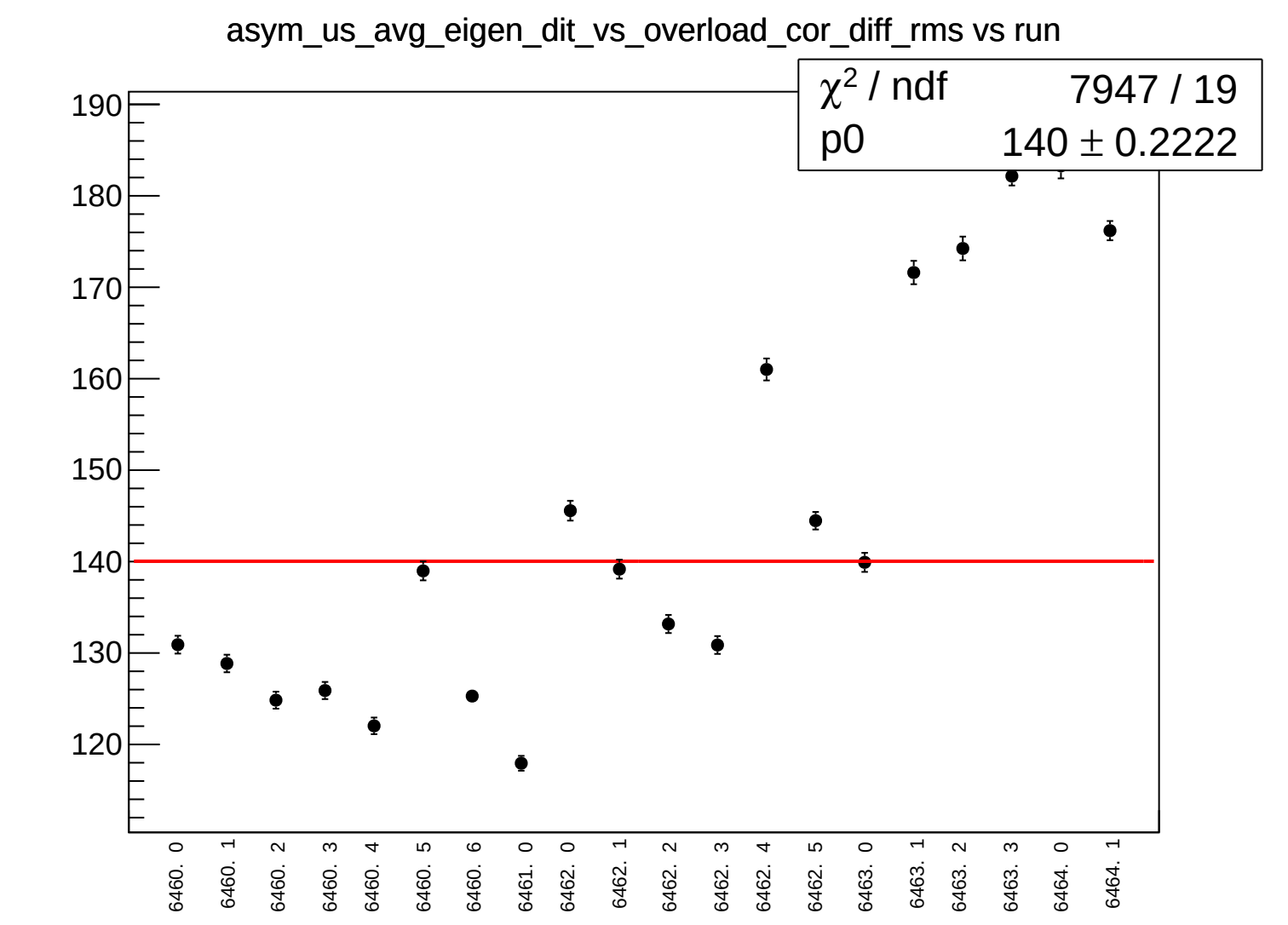

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 9.334 / 19
p0 −0.1919 ± 0.2663
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.09
Std Dev 14.42
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02416
Std Dev 0.6827
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

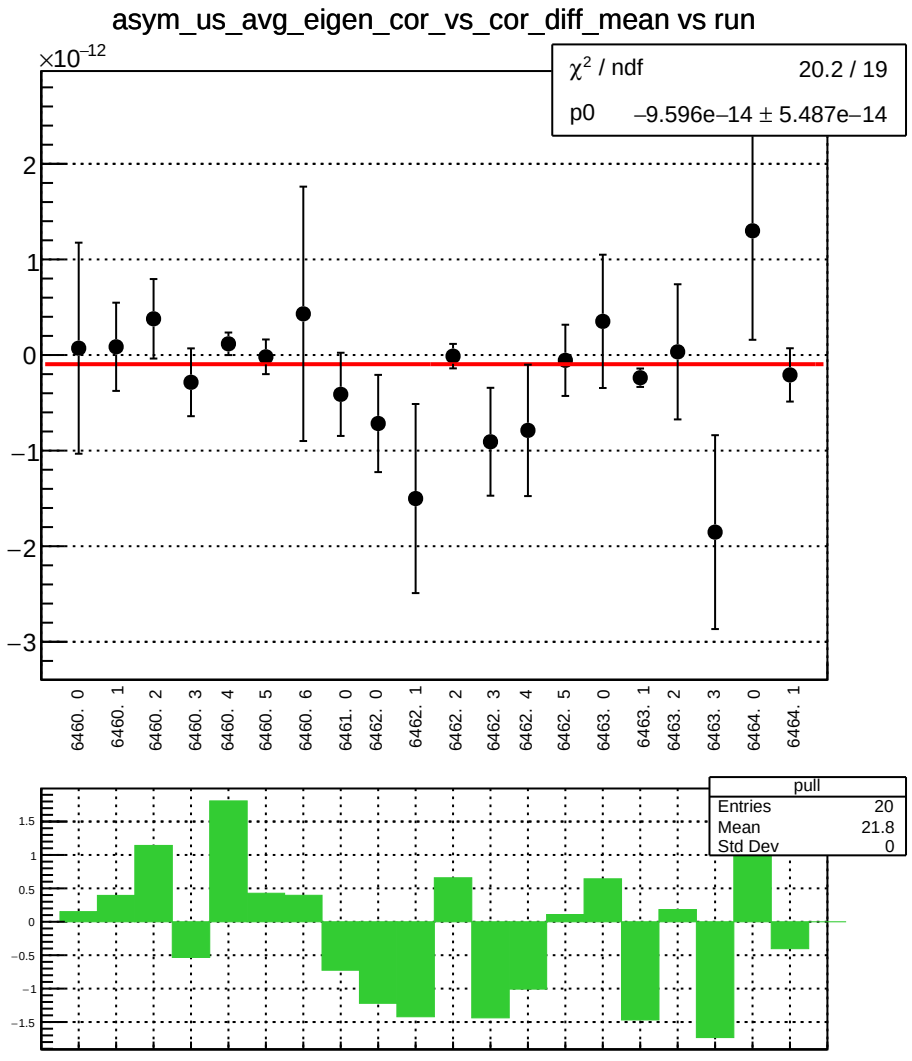

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.334e+04 / 19
p0 117.9 ± 0.1883
170
160
150
140
130
120
110
100
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

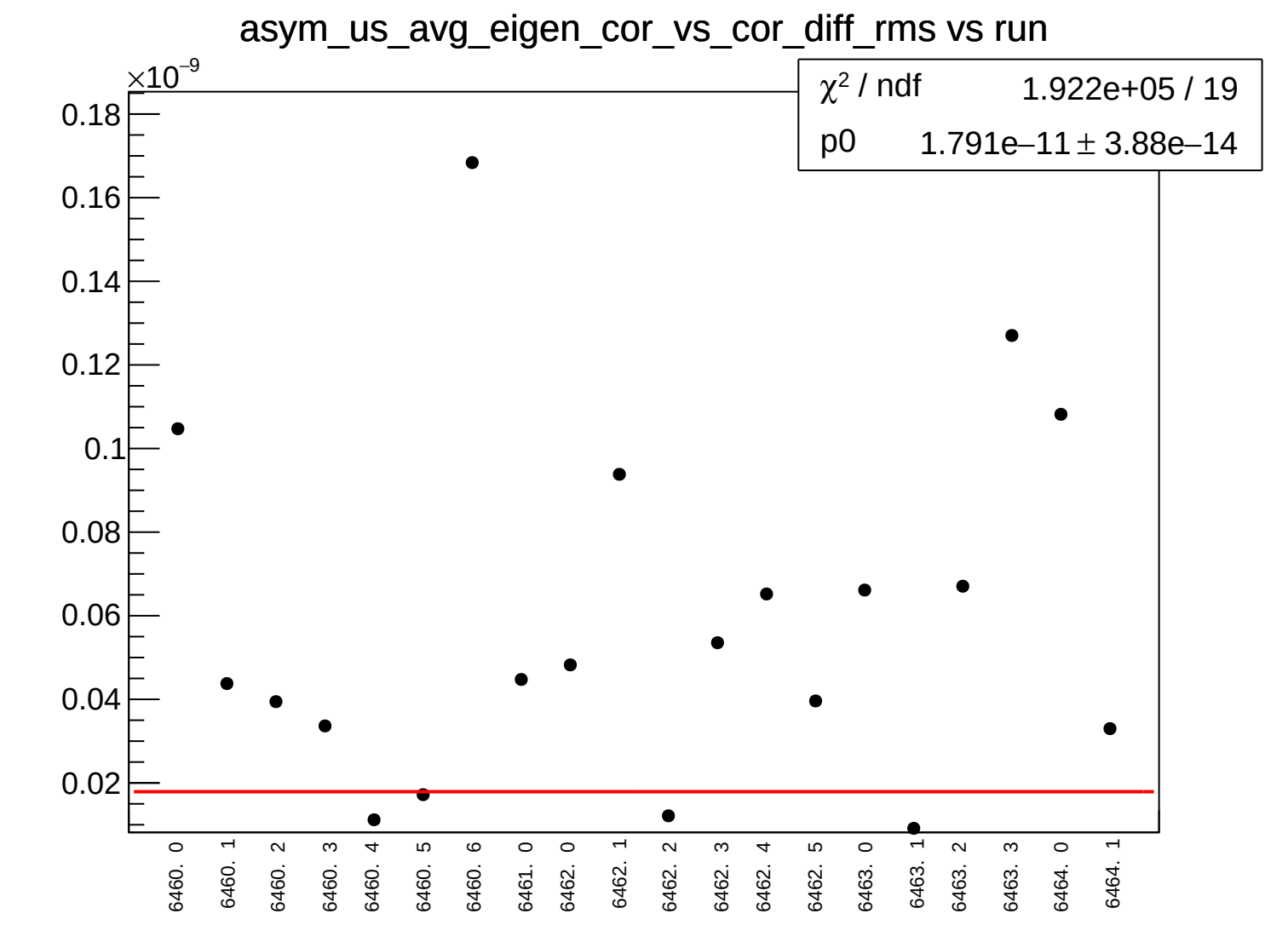

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 9.334 / 19
p0 −0.1919 ± 0.2663
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.09
Std Dev 14.42
pull1D
Entries 20
Mean 0.02416
Std Dev 0.6827

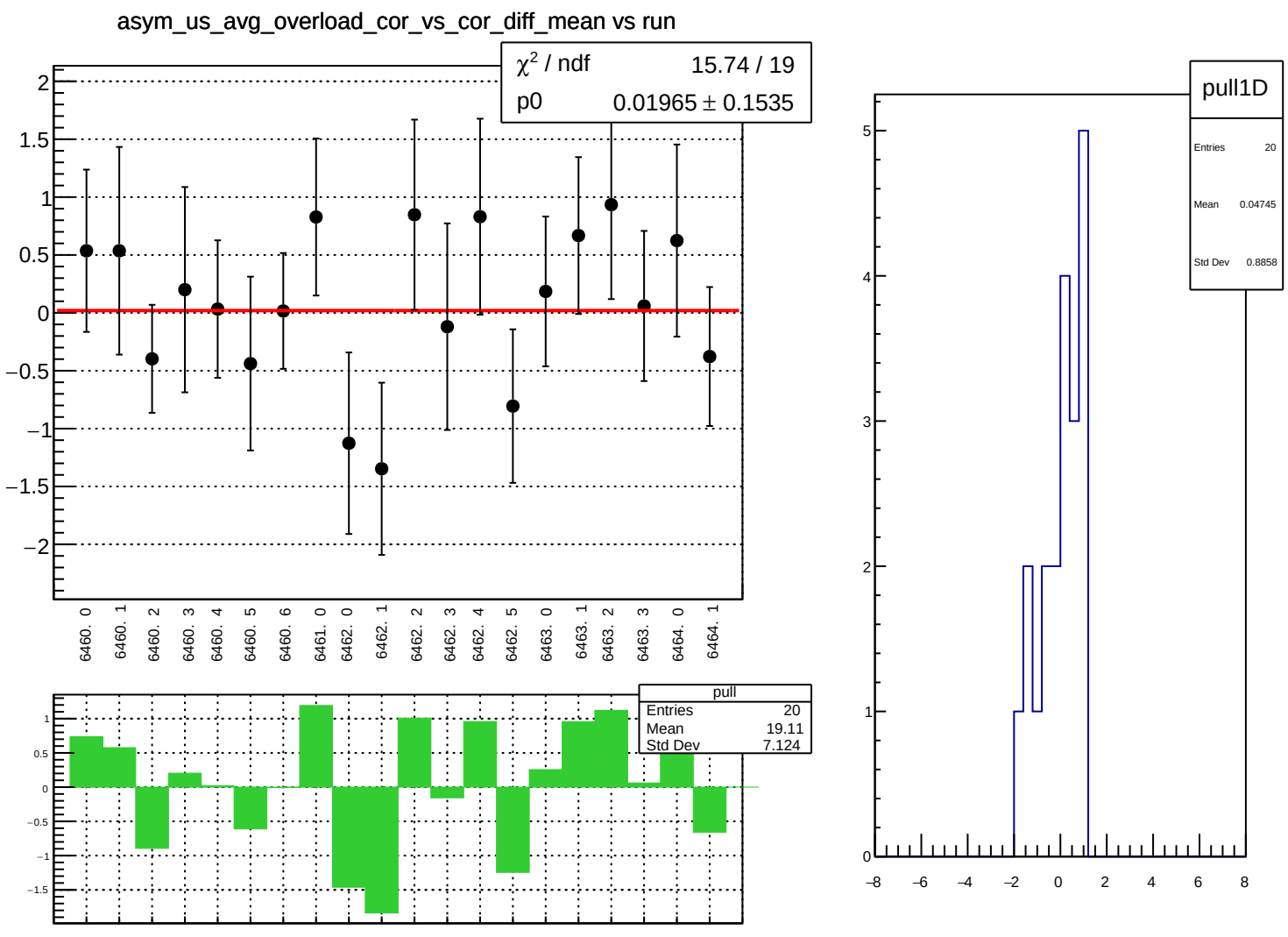

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.334e+04 / 19
p0 117.9 ± 0.1883
170
160
150
140
130
120
110
100
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

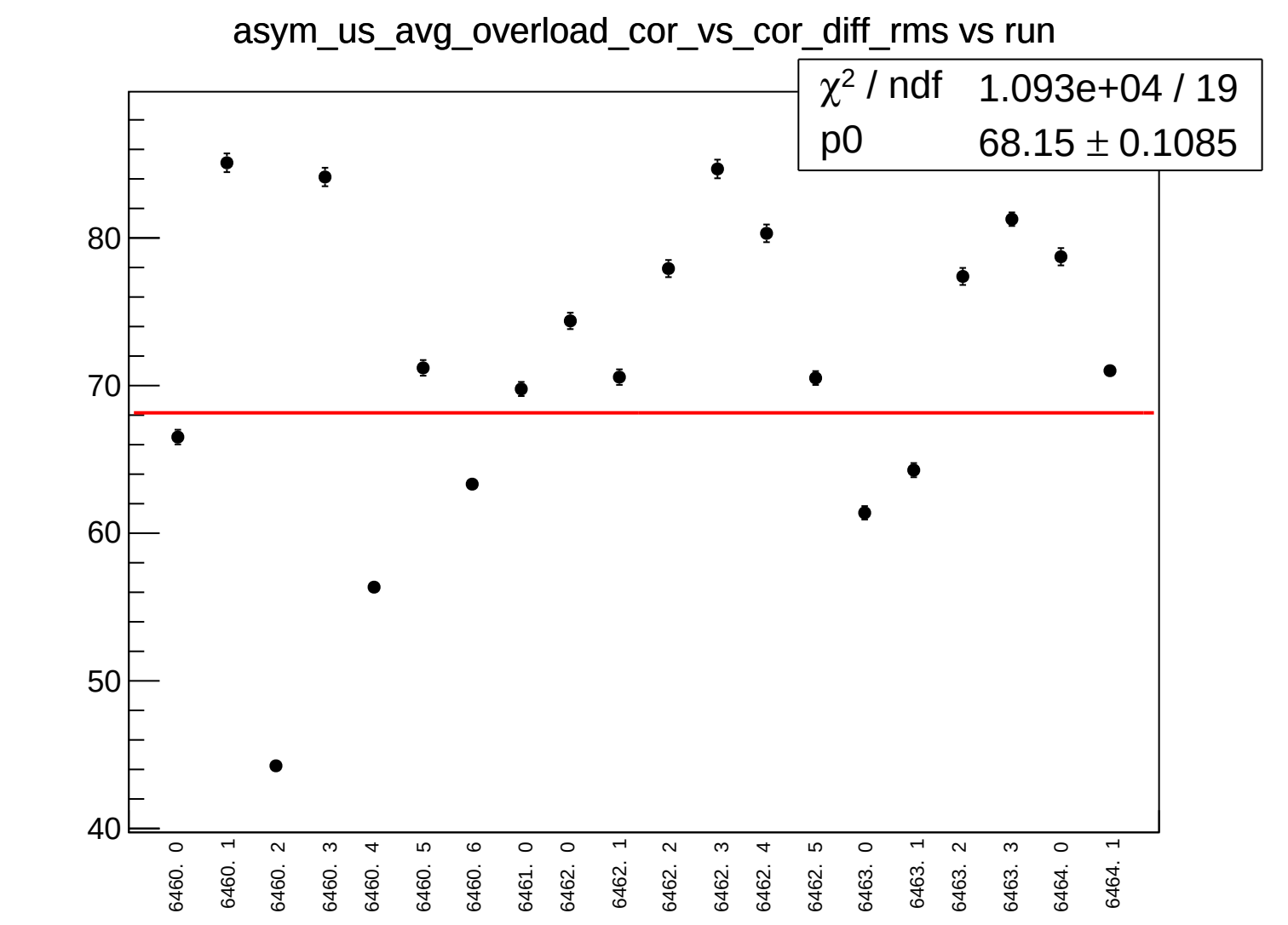

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 6.274 / 19
p0 −0.2428 ± 0.3142
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.59
Std Dev 12.29
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01202
Std Dev 0.56
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

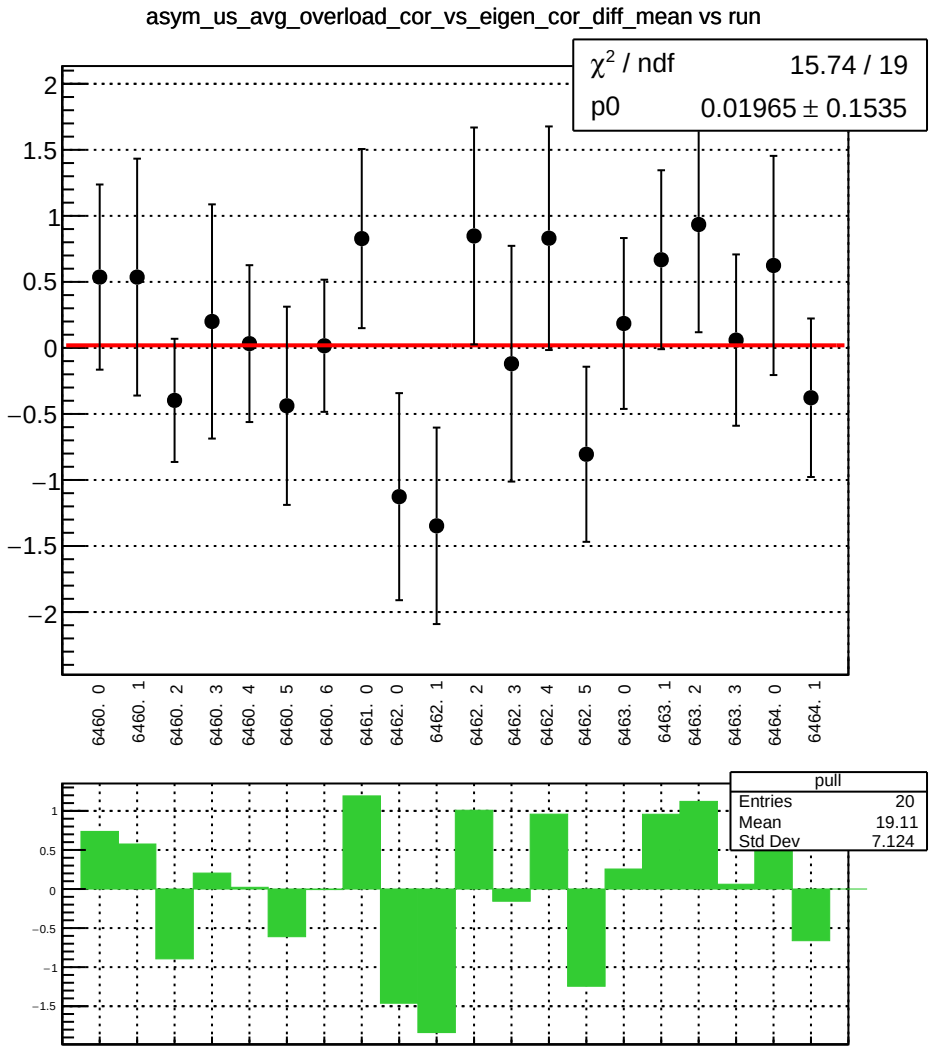

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7947 / 19
p0 140 ± 0.2222
190
180
170
160
150
140
130
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

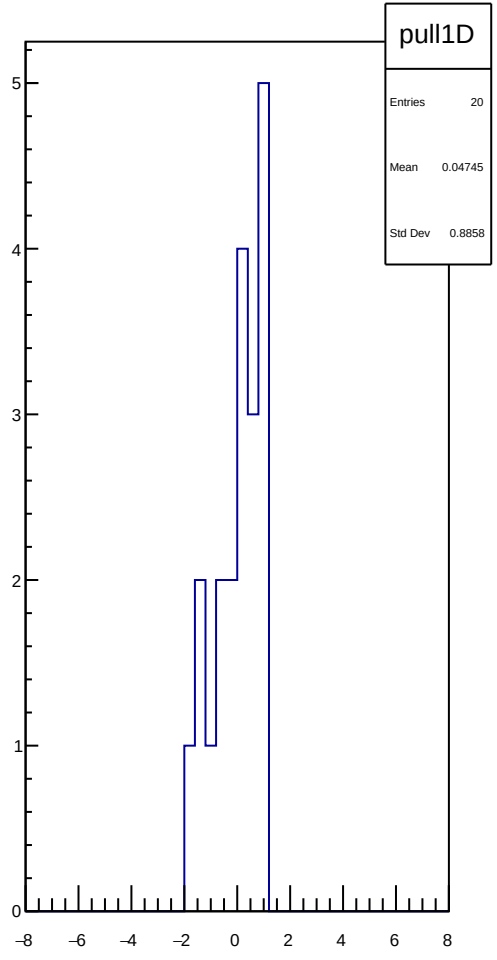

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.2 / 19
p0 −9.596e−14 ± 5.487e−14
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 21.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.1406
Std Dev 0.9952
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

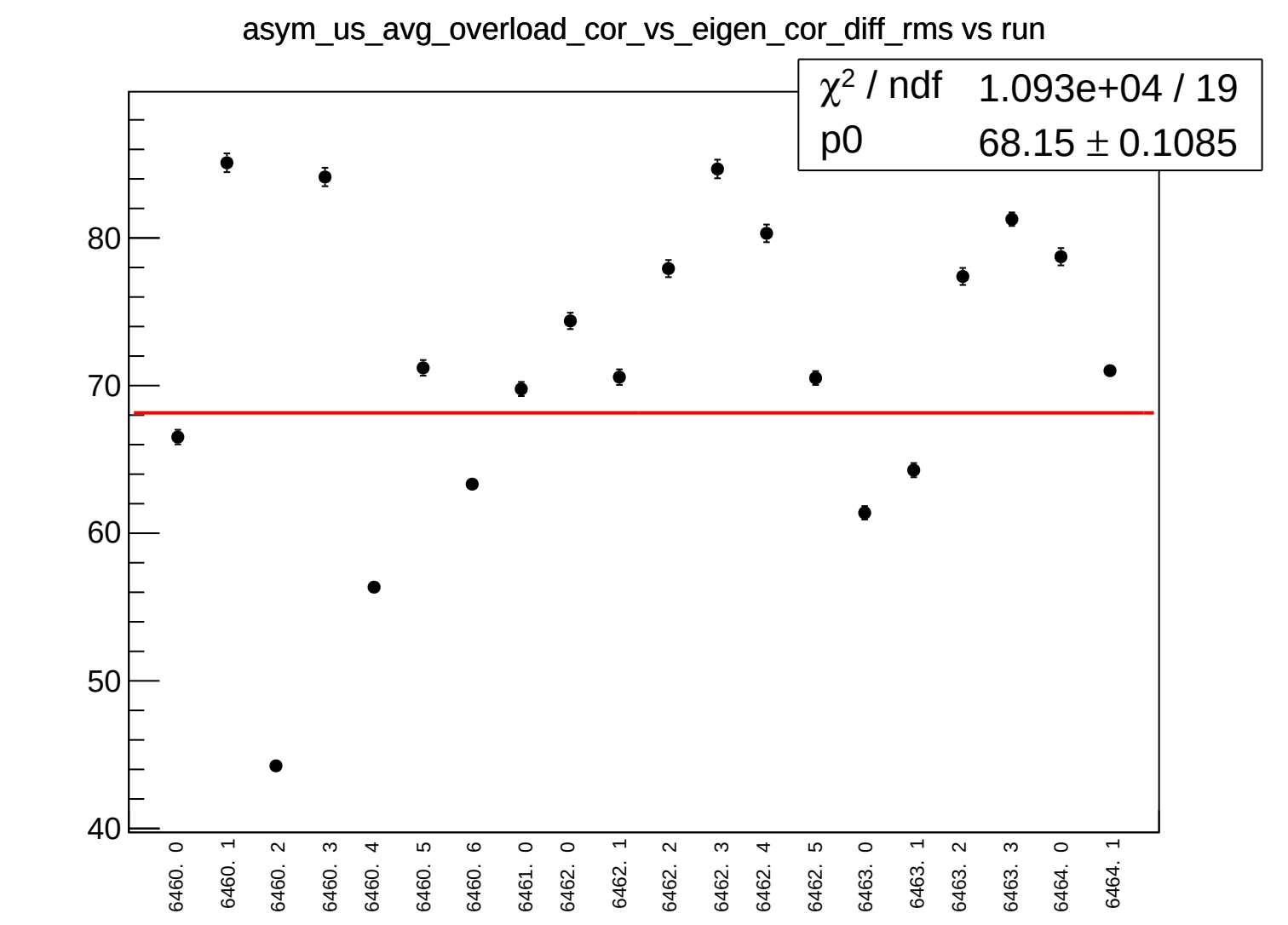

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.922e+05 / 19
p0 1.791e−11 ± 3.88e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

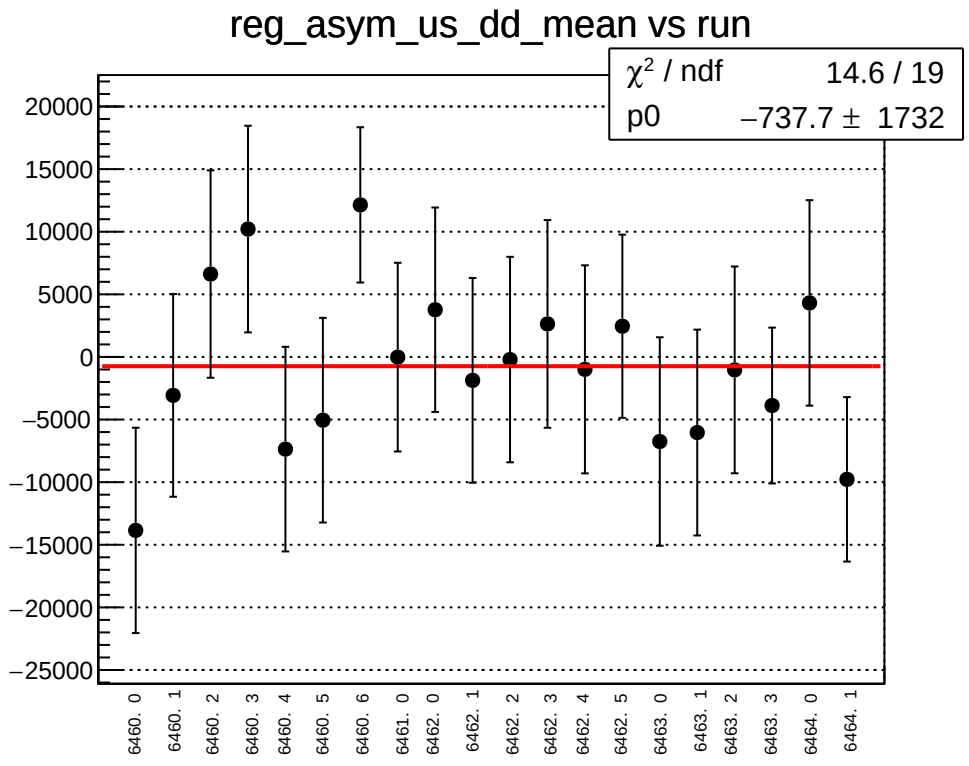

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 15.74 / 19
p0 0.01965 ± 0.1535
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.11
Std Dev 7.124
pull1D
Entries 20
Mean 0.04745
Std Dev 0.8858

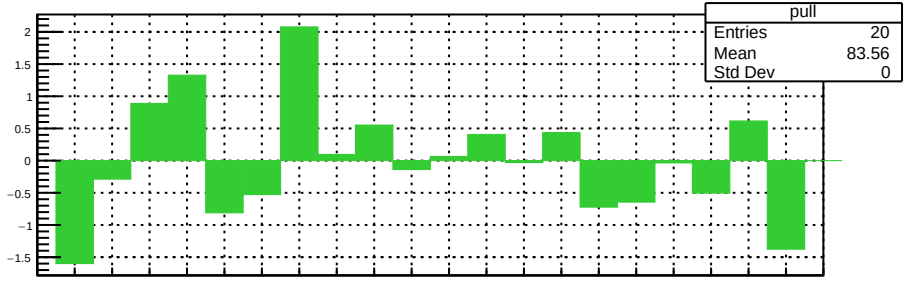

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.093e+04 / 19
p0 68.15 ± 0.1085
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

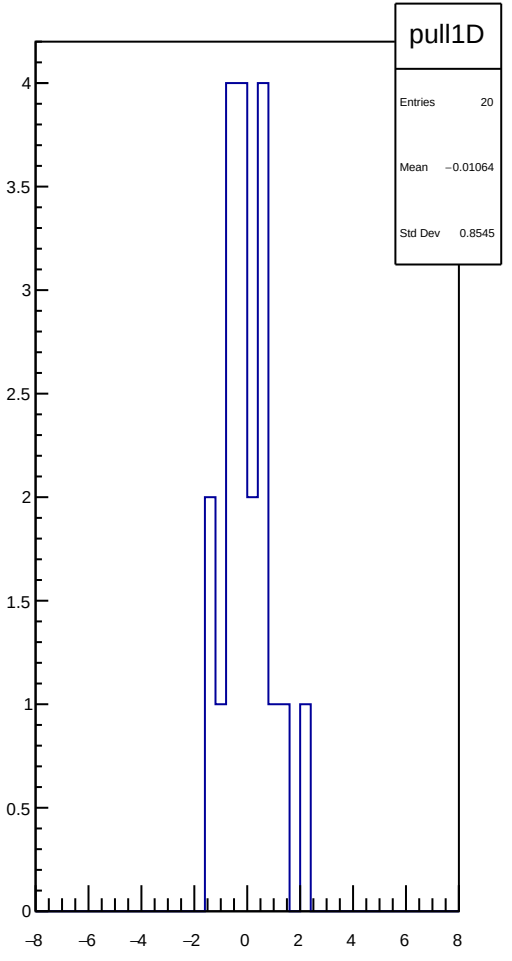

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.74 / 19
p0 0.01965 ± 0.1535
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.11
Std Dev 7.124
1
0.5
0
−0.5
−1
−1.5

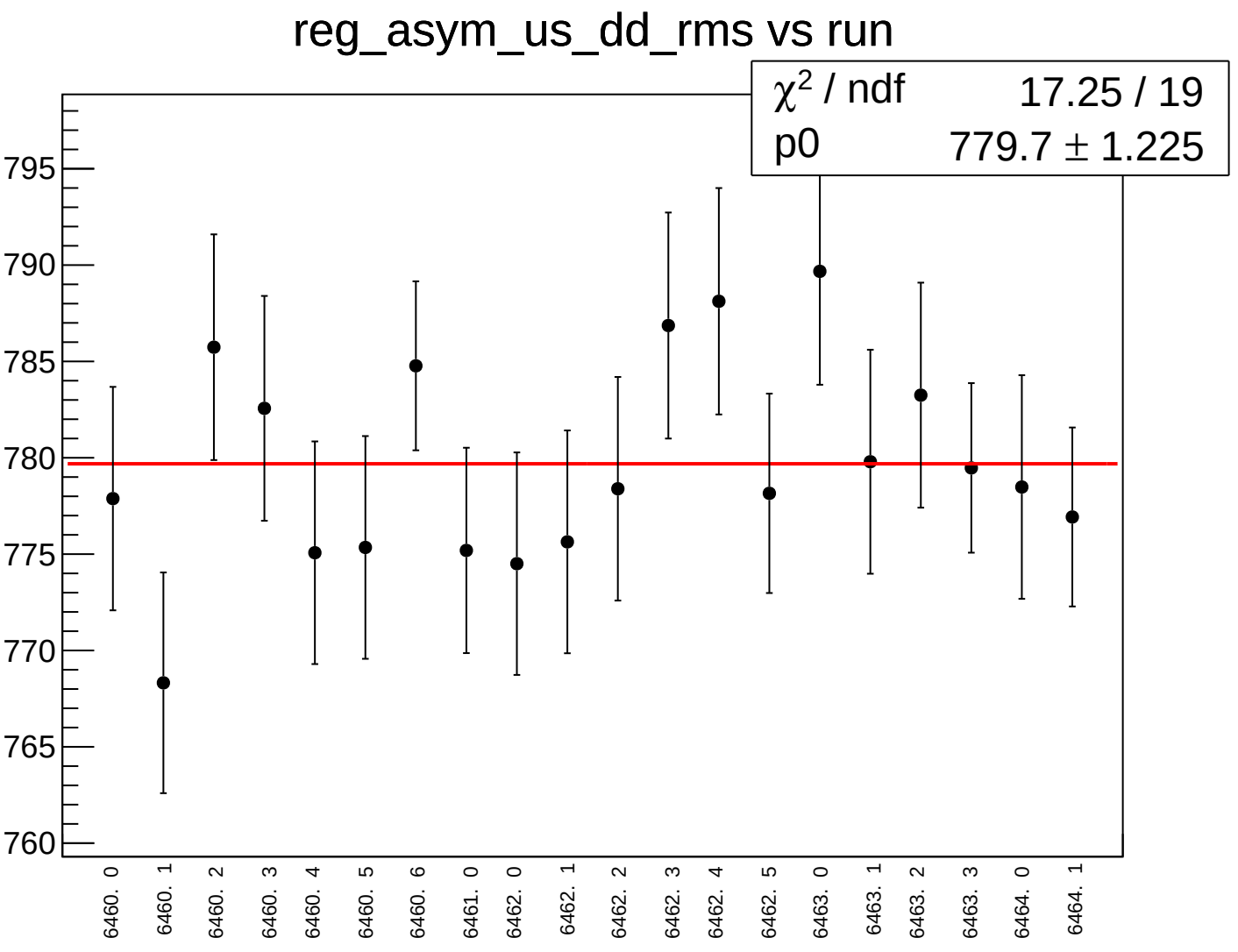

pull1D
Entries 20
Mean 0.04745
Std Dev 0.8858
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

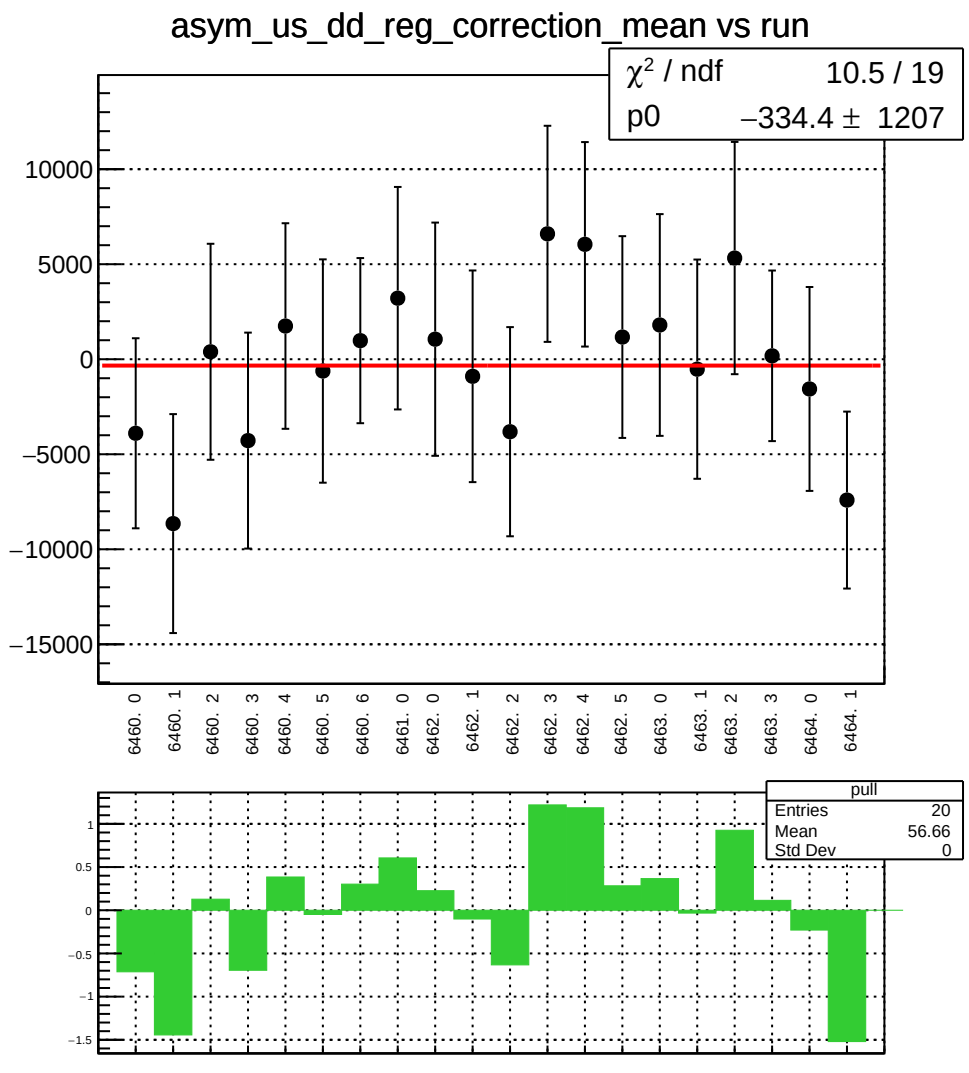

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+04 / 19
p0 68.15 ± 0.1085
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

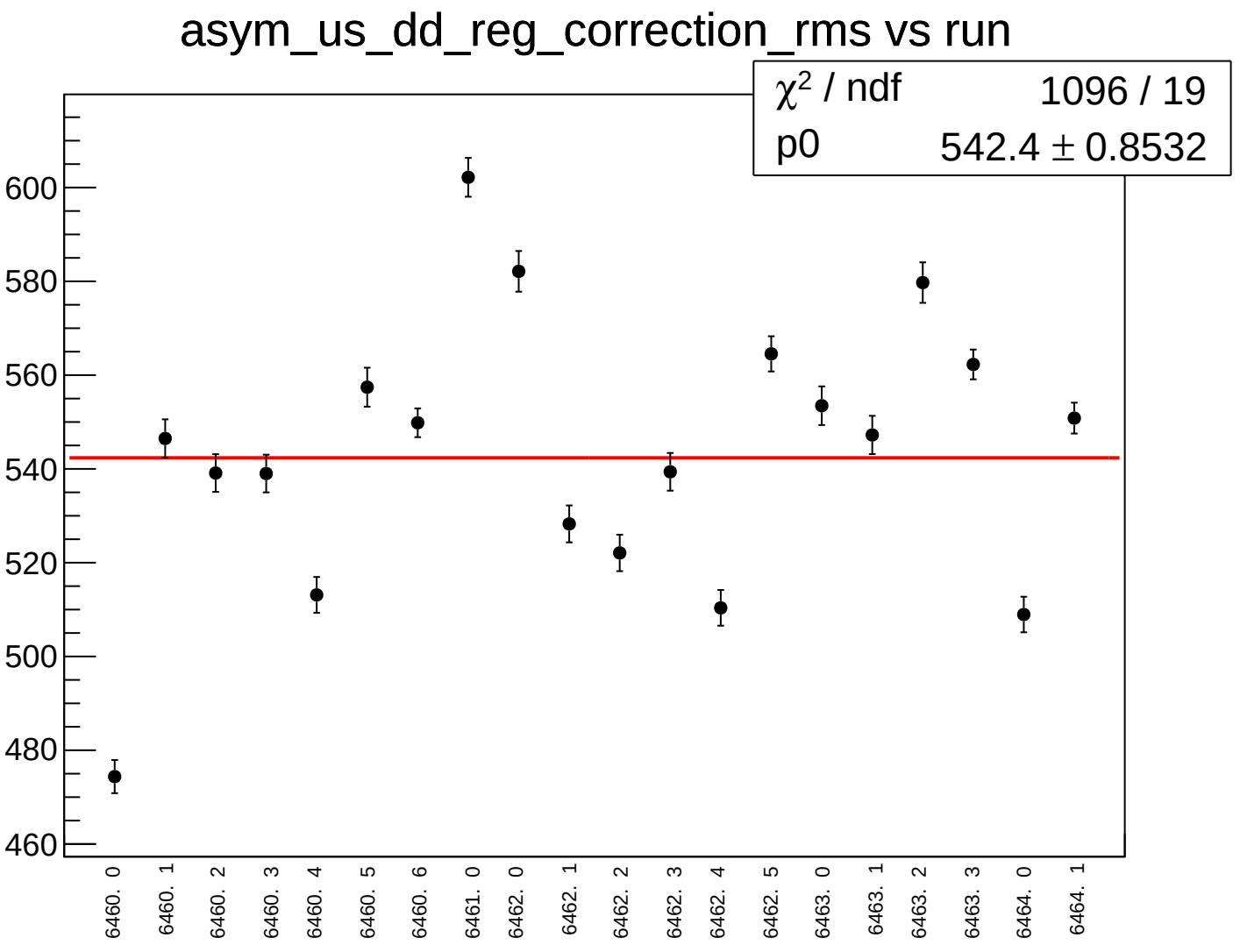

reg_asym_us_dd_mean vs run
χ² / ndf 14.6 / 19
p0 −737.7 ± 1732
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

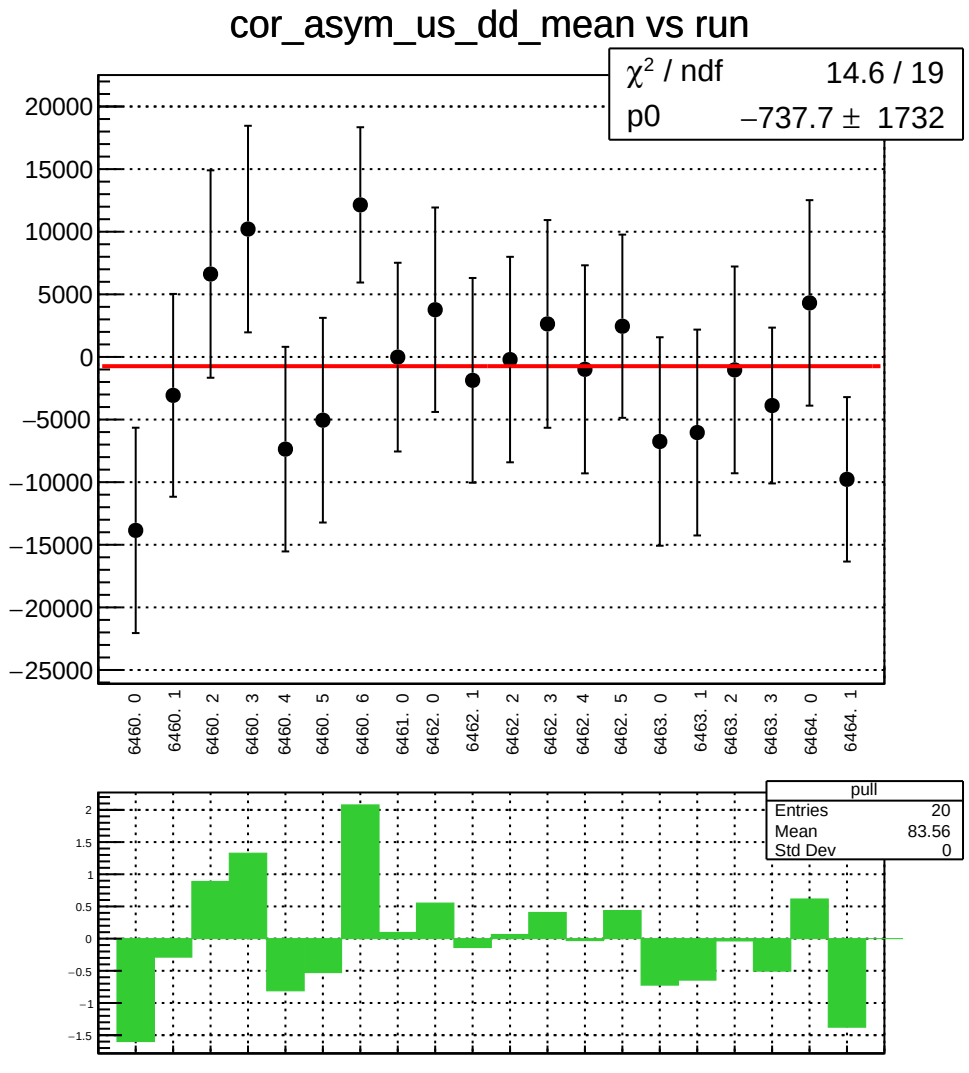

pull
Entries 20
Mean 83.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

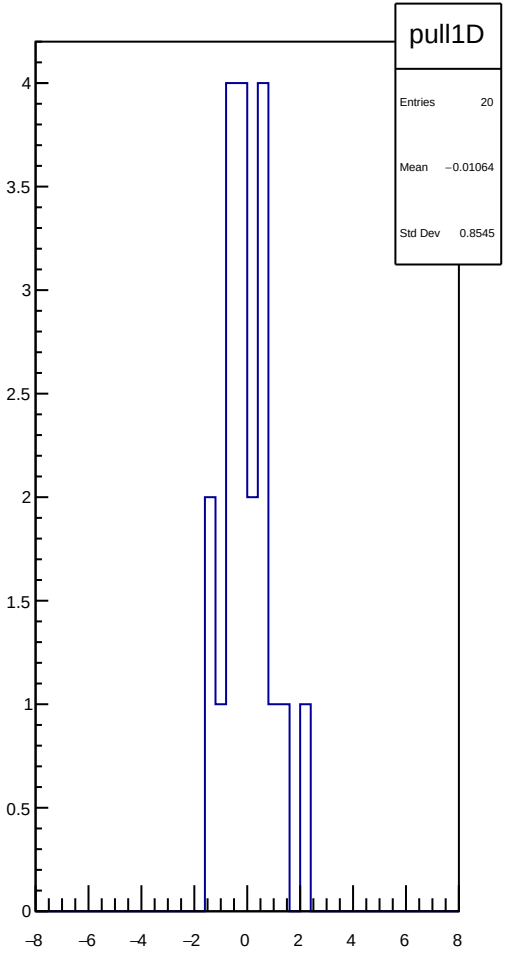

pull1D
Entries 20
Mean −0.01064
Std Dev 0.8545
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

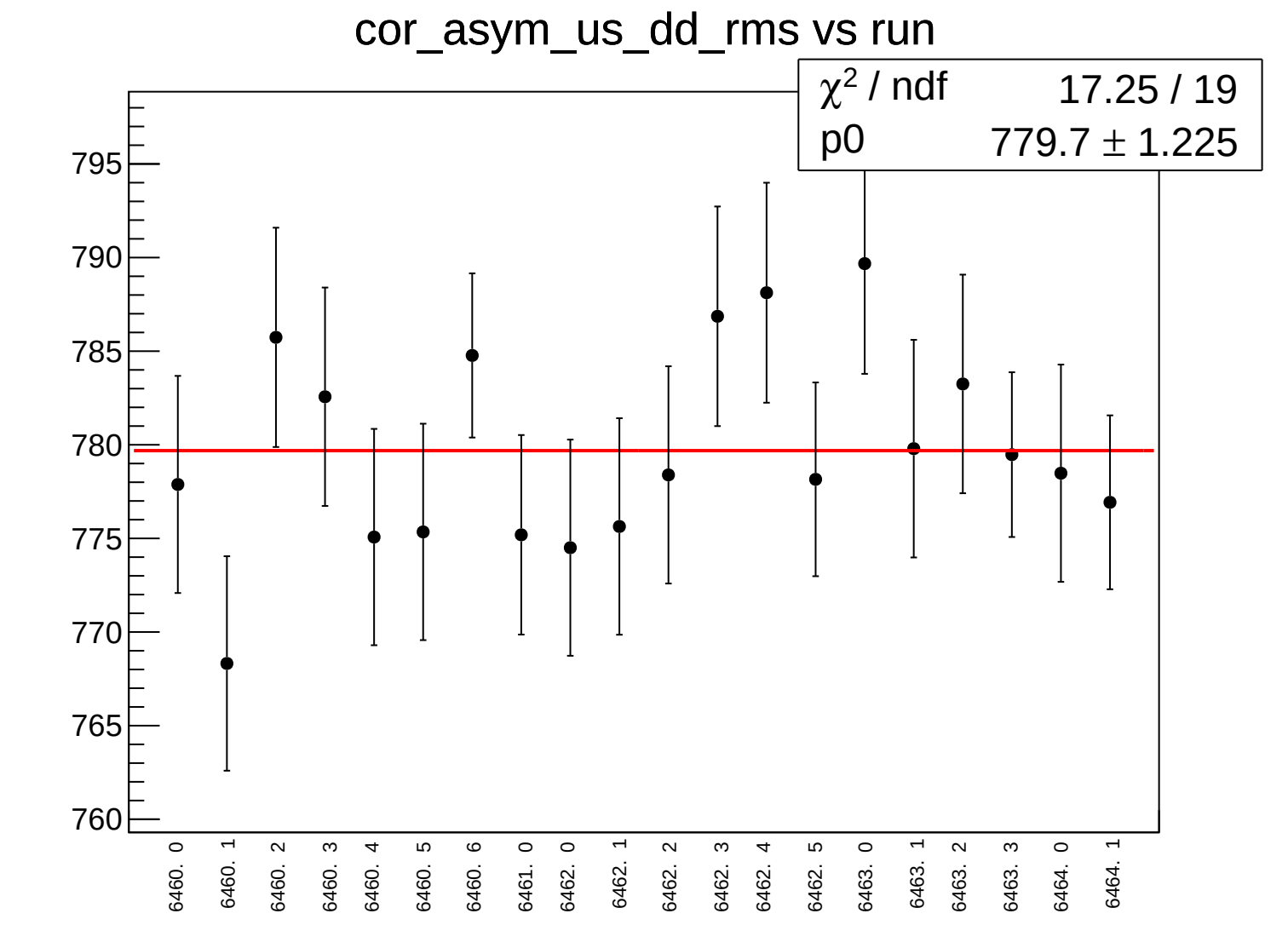

reg_asym_us_dd_rms vs run
χ² / ndf 17.25 / 19
p0 779.7 ± 1.225
795
790
785
780
775
770
765
760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

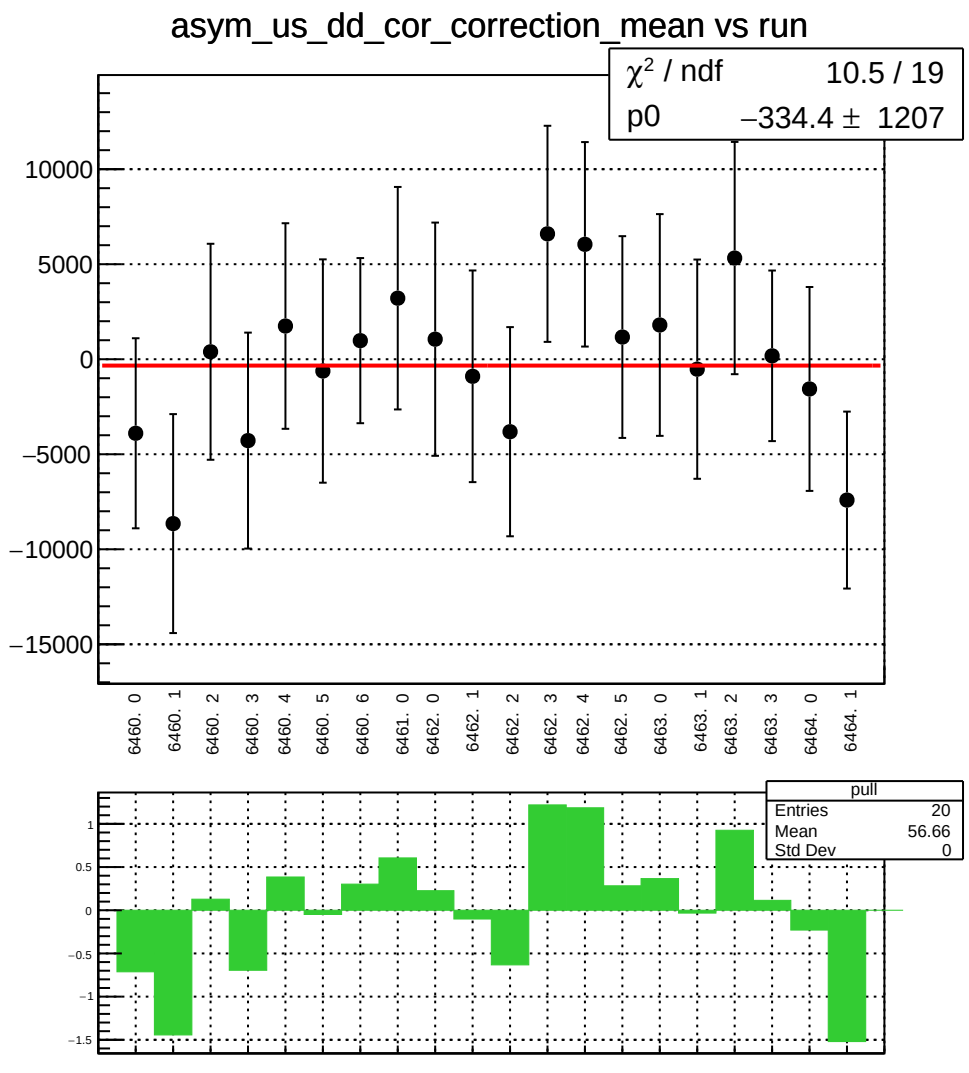

asym_us_dd_reg_correction_mean vs run
χ² / ndf 10.5 / 19
p0 −334.4 ± 1207
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.66
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01635
Std Dev 0.7245
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

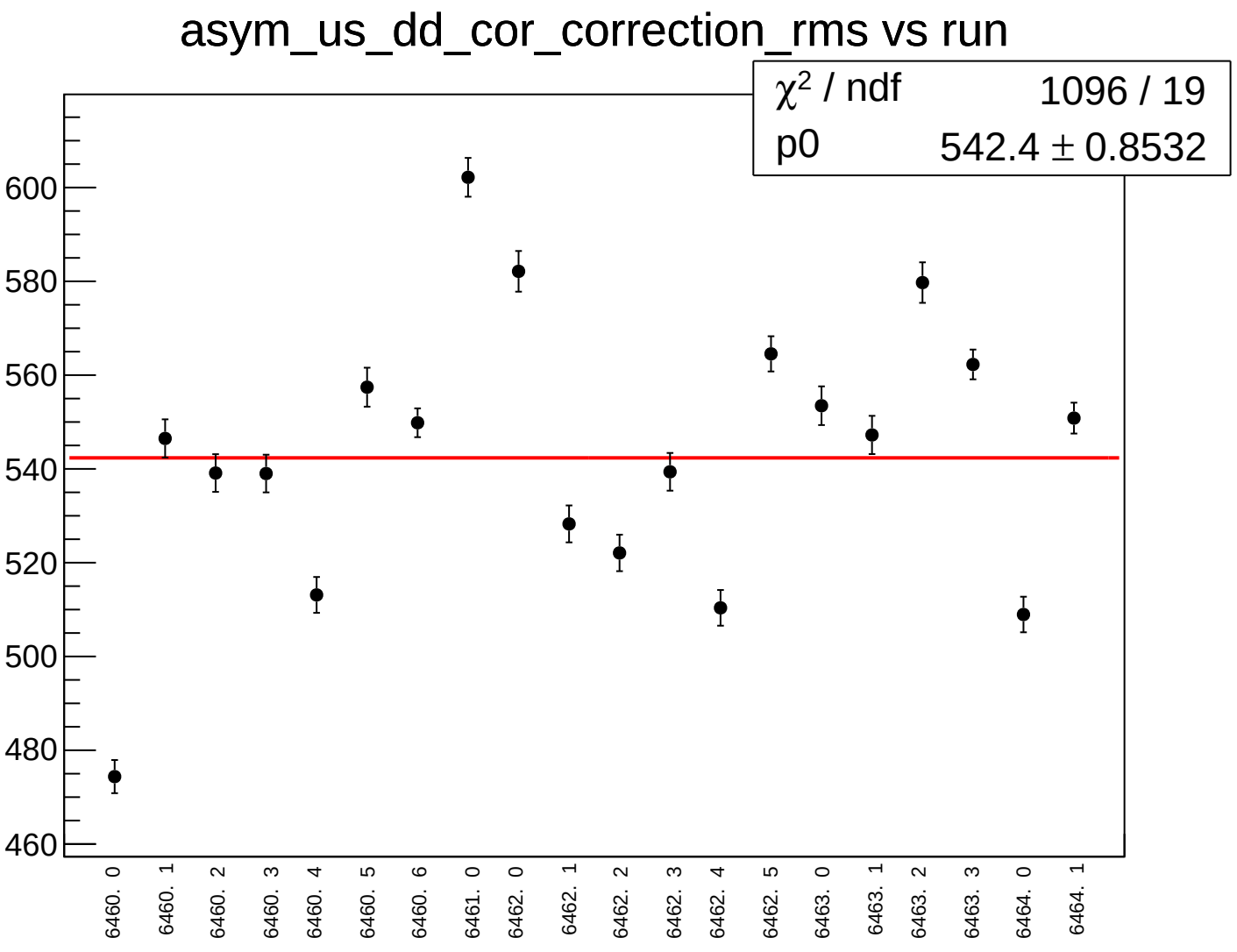

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1096 / 19
p0 542.4 ± 0.8532
600
580
560
540
520
500
480
460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

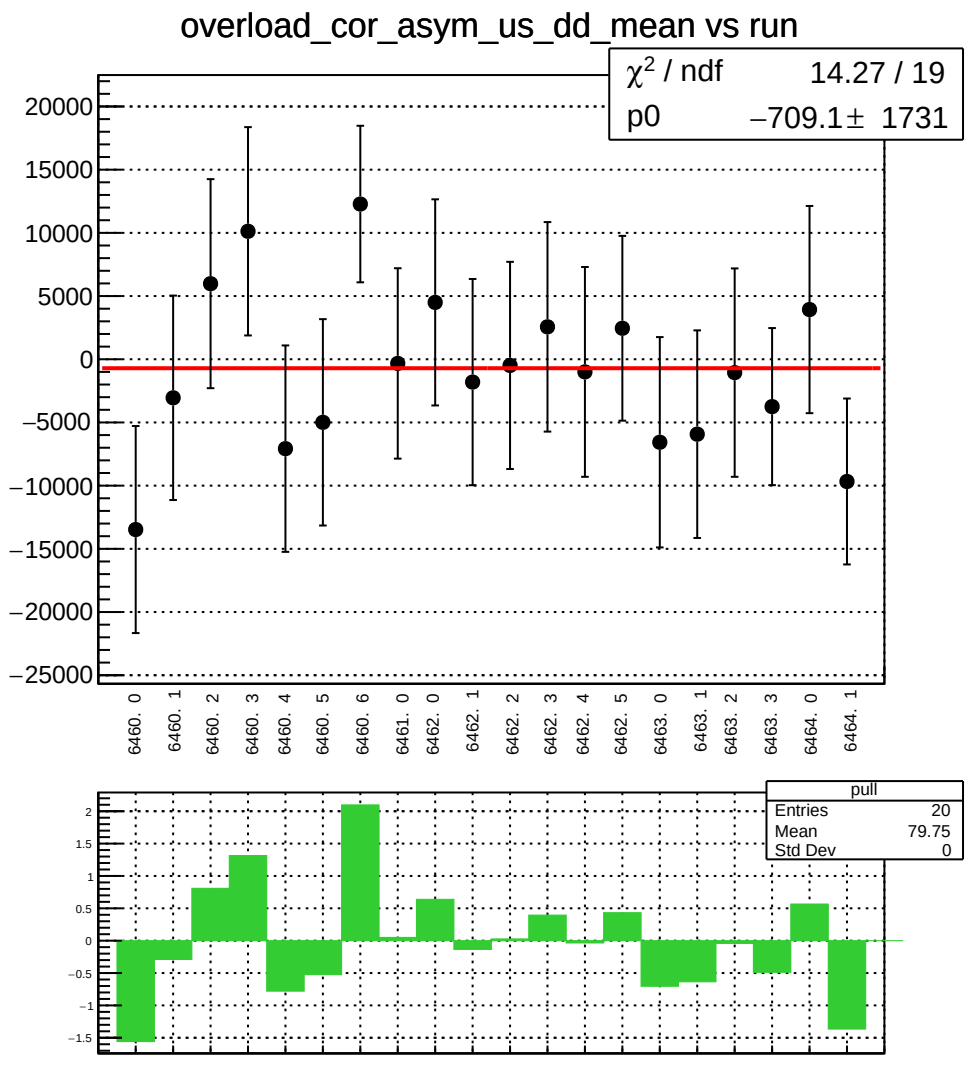

cor_asym_us_dd_mean vs run
χ² / ndf 14.6 / 19
p0 −737.7 ± 1732
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 83.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

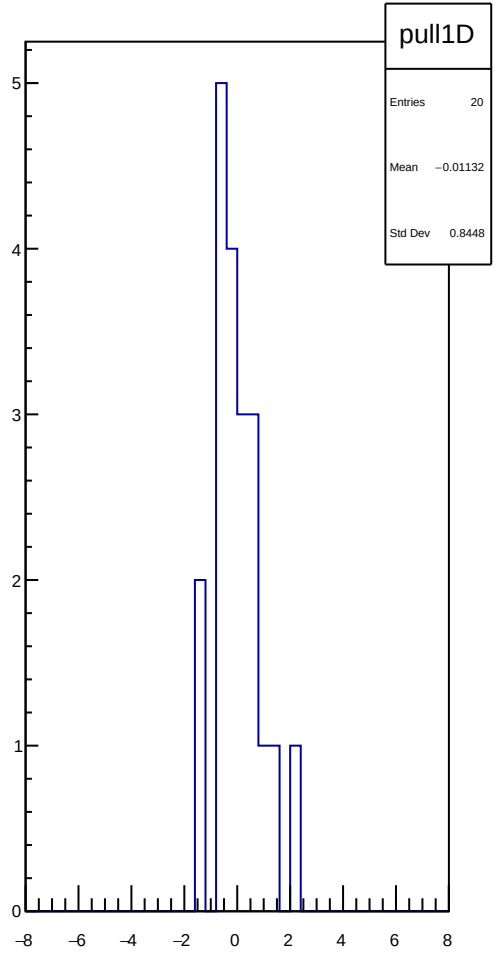

pull1D
Entries 20
Mean −0.01064
Std Dev 0.8545
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

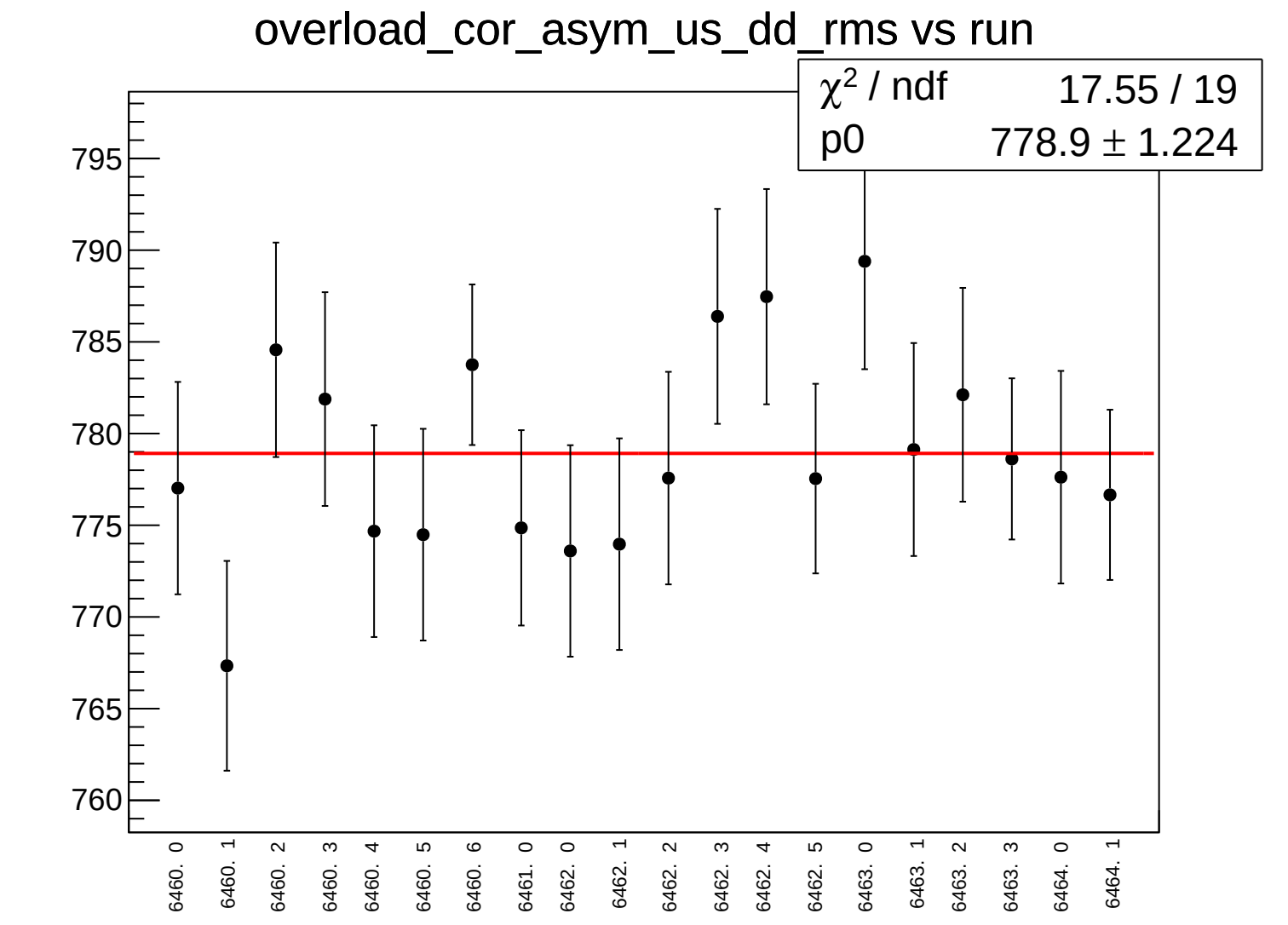

cor_asym_us_dd_rms vs run
χ² / ndf 17.25 / 19
p0 779.7 ± 1.225
795
790
785
780
775
770
765
760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

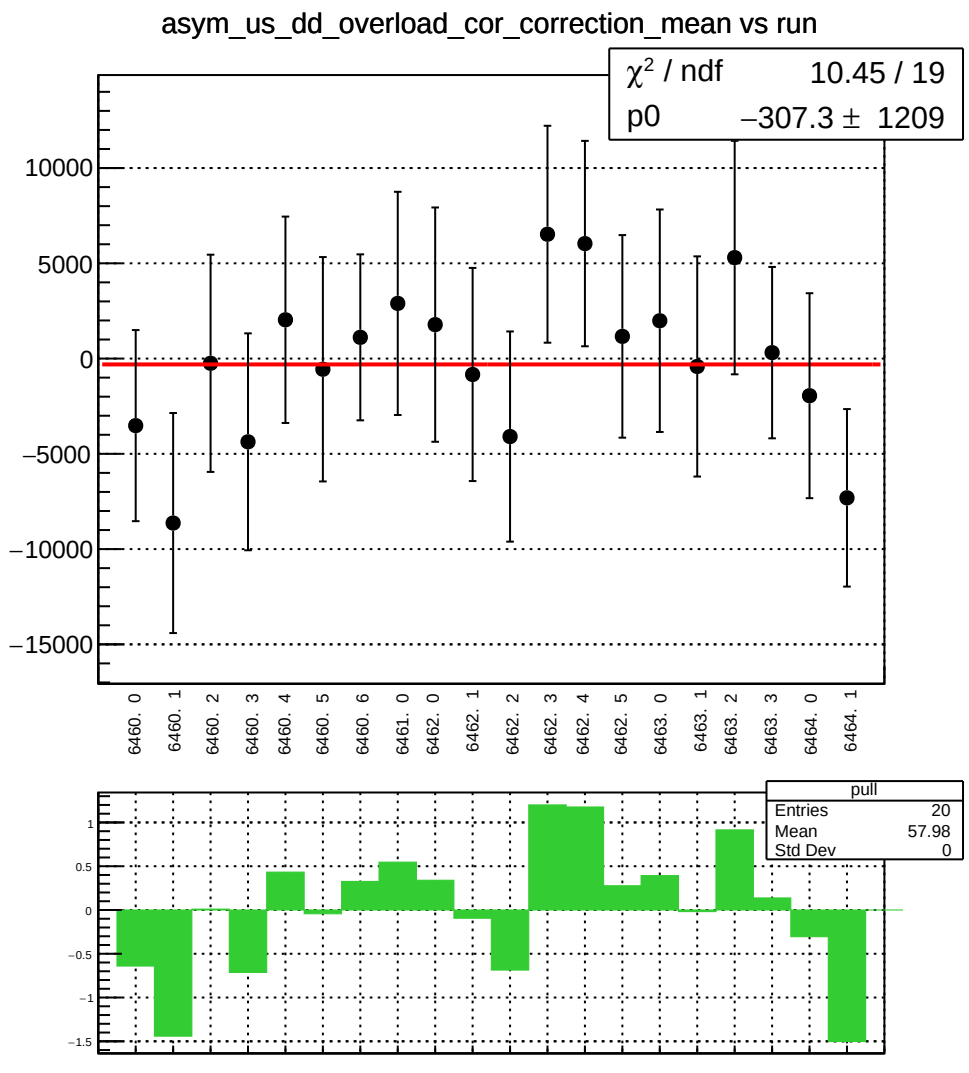

asym_us_dd_cor_correction_mean vs run
χ² / ndf 10.5 / 19
p0 −334.4 ± 1207
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.66
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01635
Std Dev 0.7245
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

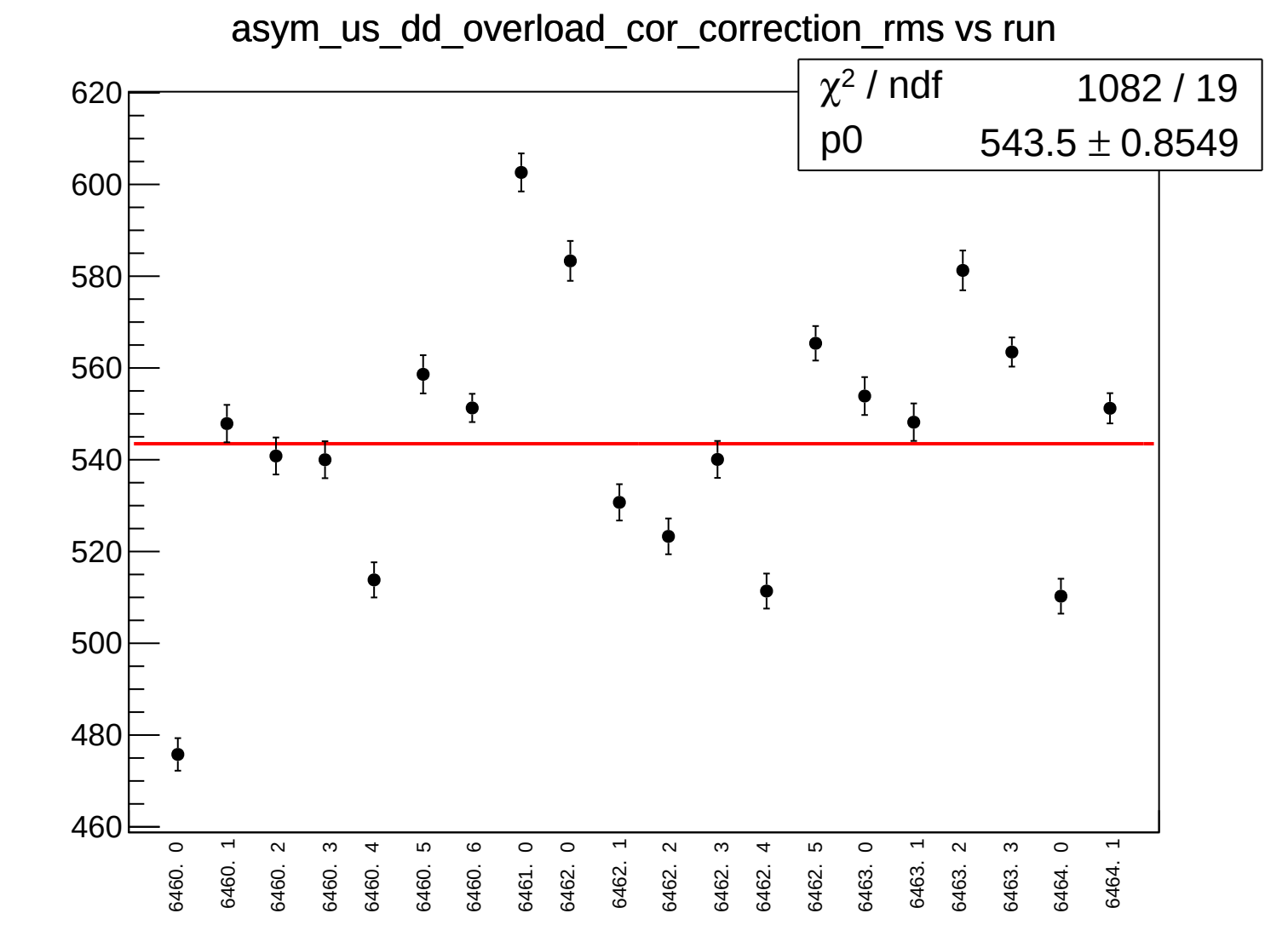

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1096 / 19
p0 542.4 ± 0.8532
600
580
560
540
520
500
480
460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

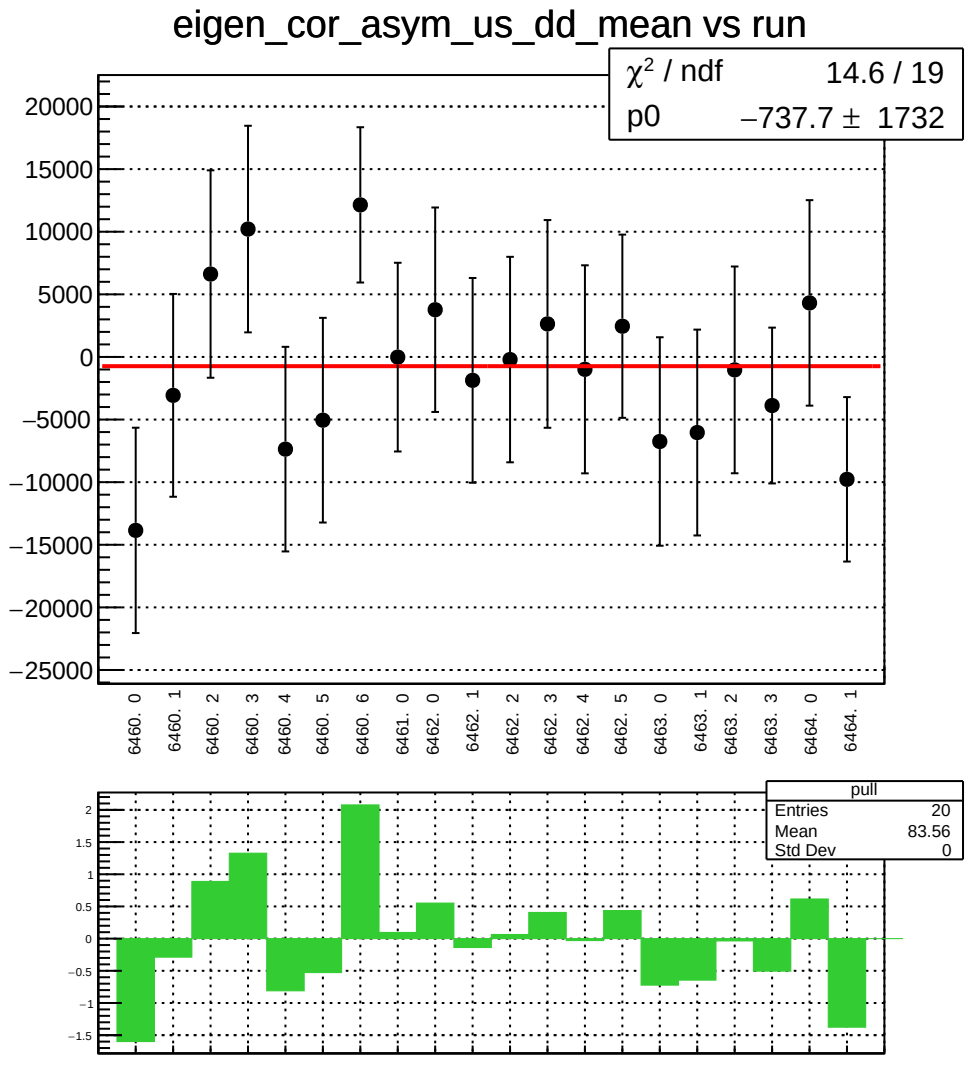

overload_cor_asym_us_dd_mean vs run
χ² / ndf 14.27 / 19
p0 −709.1± 1731
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 79.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

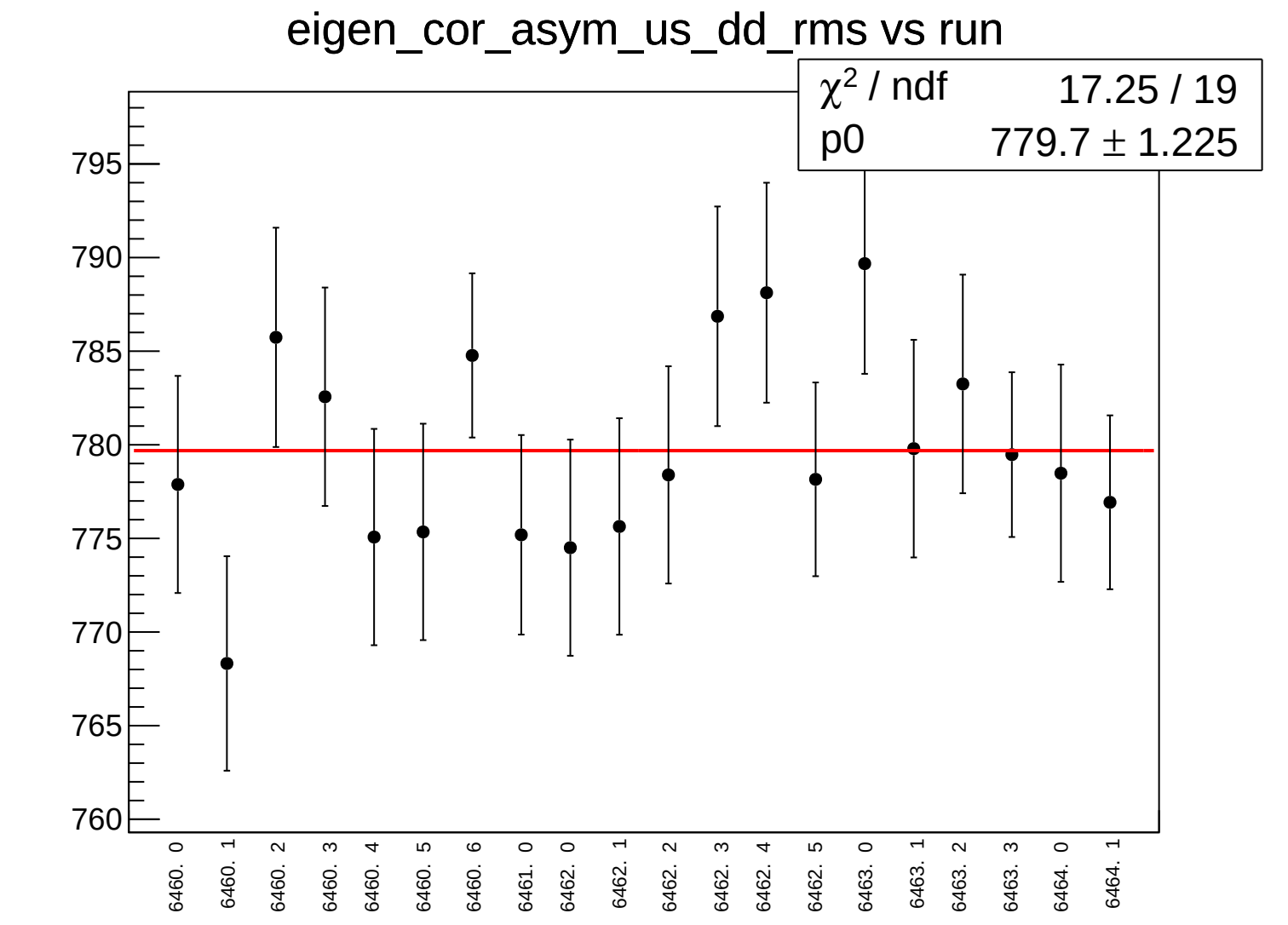

pull1D
Entries 20
Mean −0.01132
Std Dev 0.8448
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

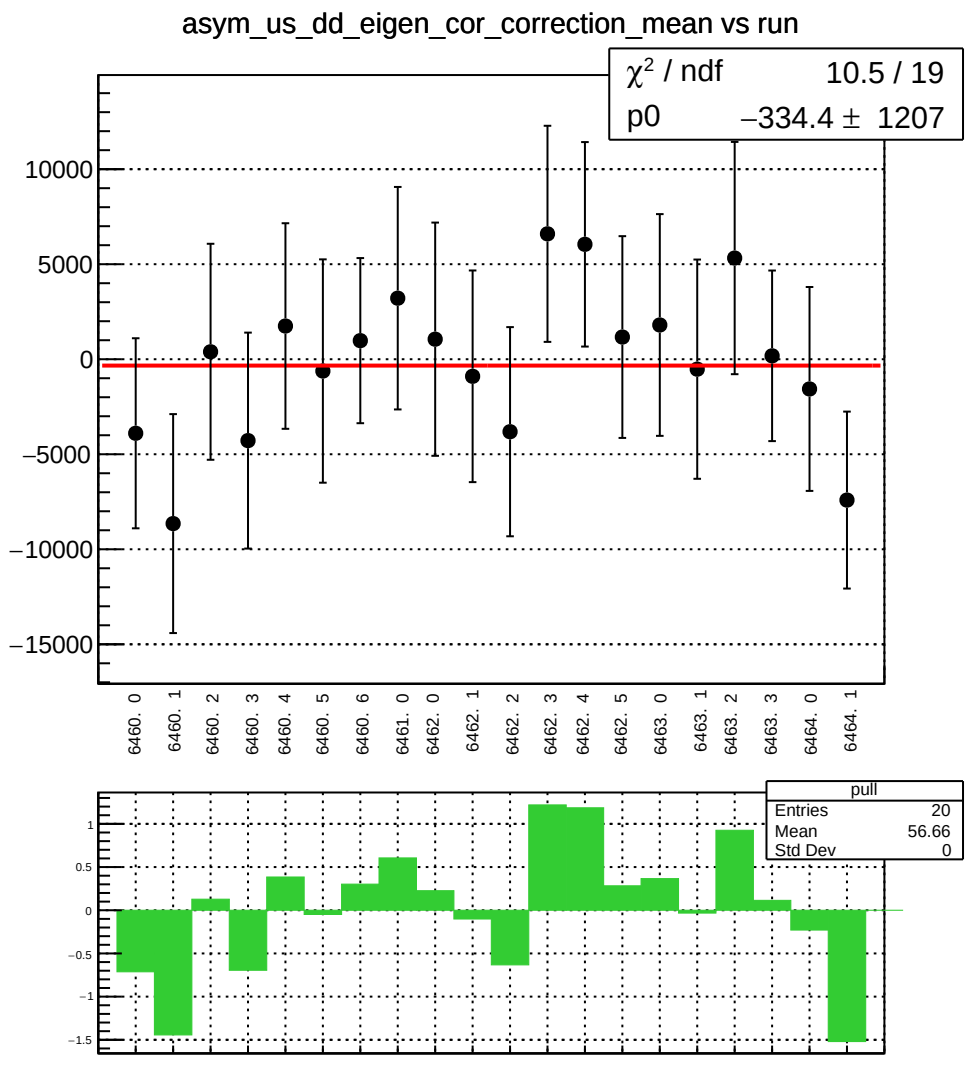

overload_cor_asym_us_dd_rms vs run
χ² / ndf 17.55 / 19
p0 778.9 ± 1.224
795
790
785
780
775
770
765
760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

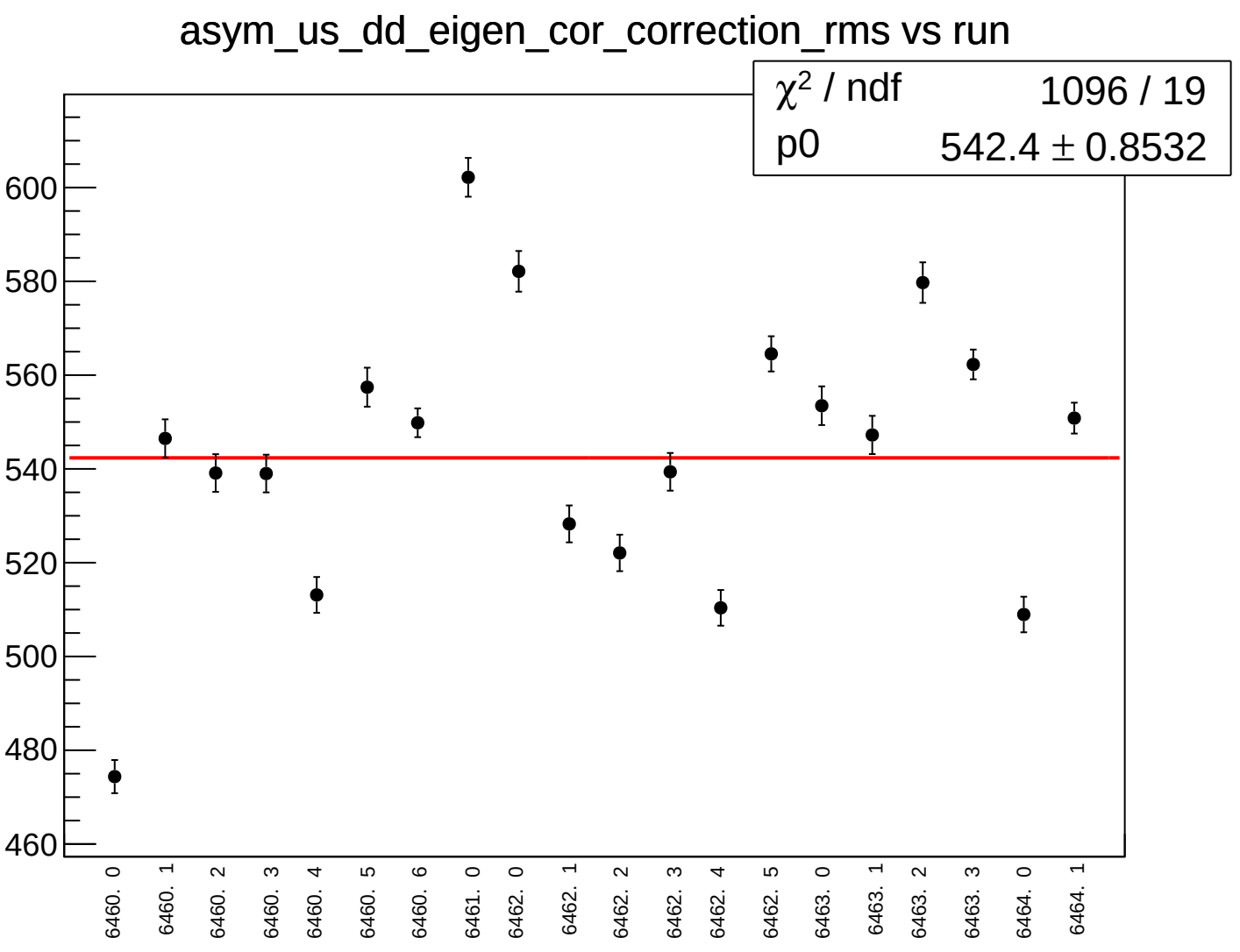

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 10.45 / 19
p0 −307.3 ± 1209
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 57.98
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01551
Std Dev 0.7228
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

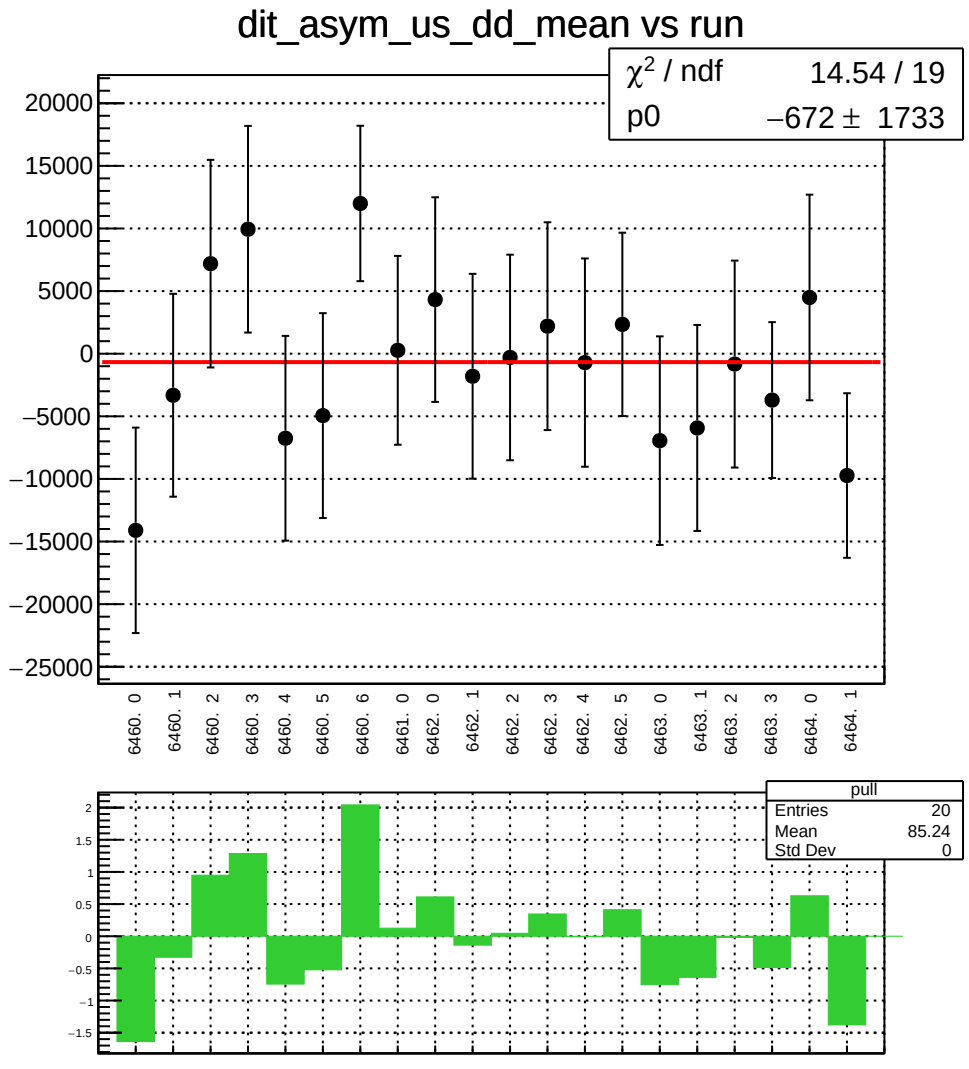

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1082 / 19
p0 543.5 ± 0.8549
620
600
580
560
540
520
500
480
460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

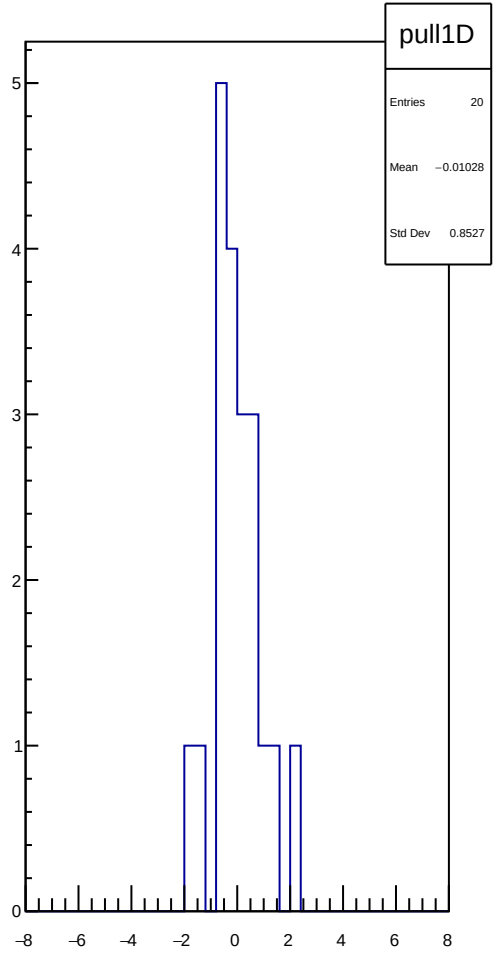

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 14.6 / 19
p0 −737.7 ± 1732
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 83.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01064
Std Dev 0.8545
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

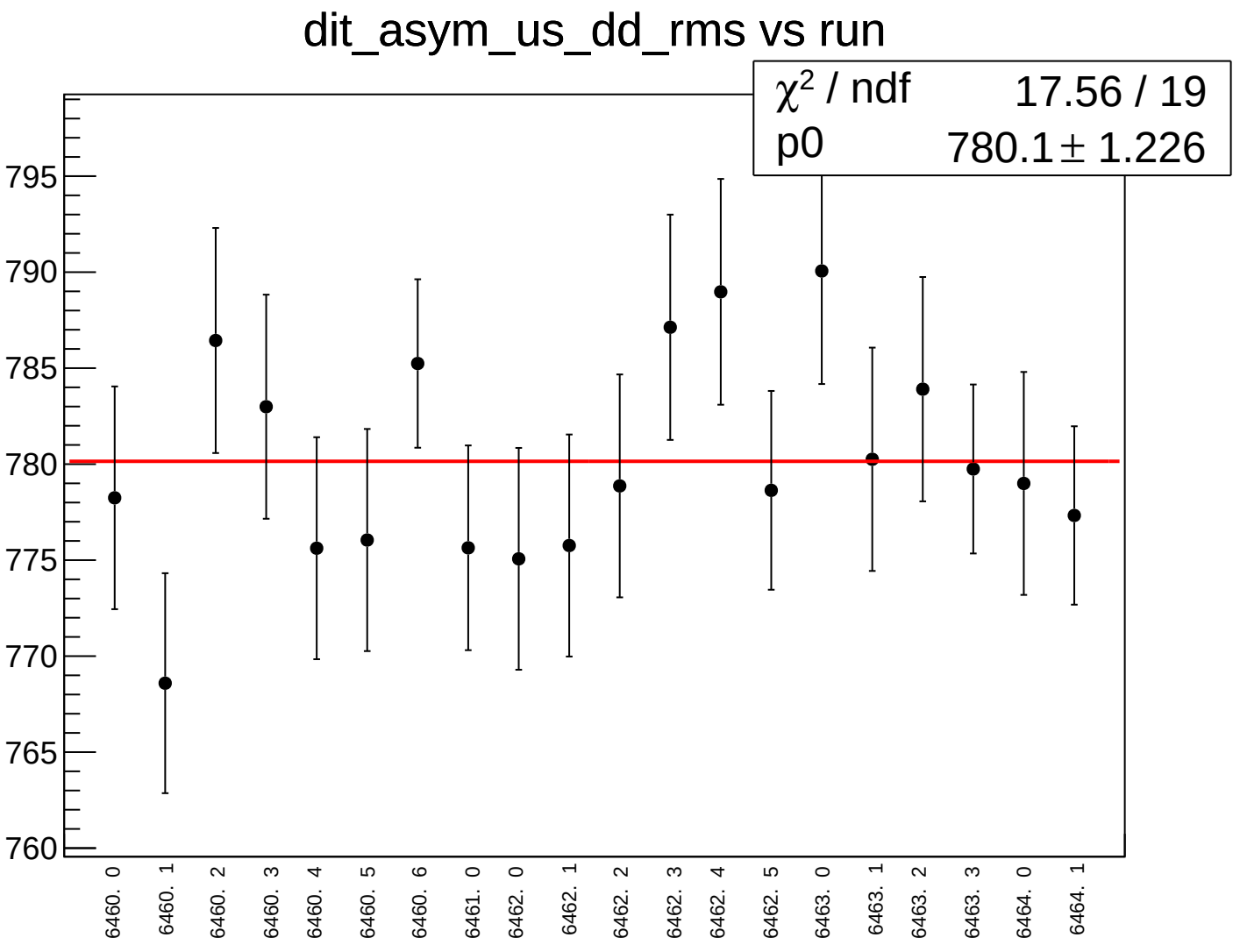

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 17.25 / 19
p0 779.7 ± 1.225
795
790
785
780
775
770
765
760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

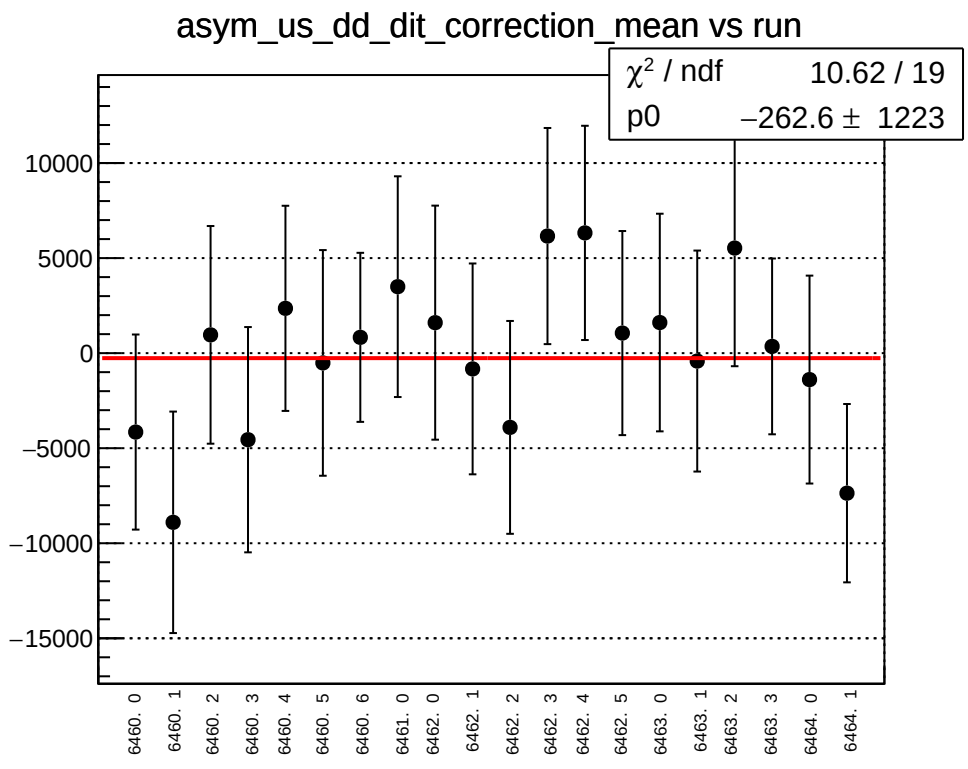

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 10.5 / 19
p0 −334.4 ± 1207
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.66
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01635
Std Dev 0.7245
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

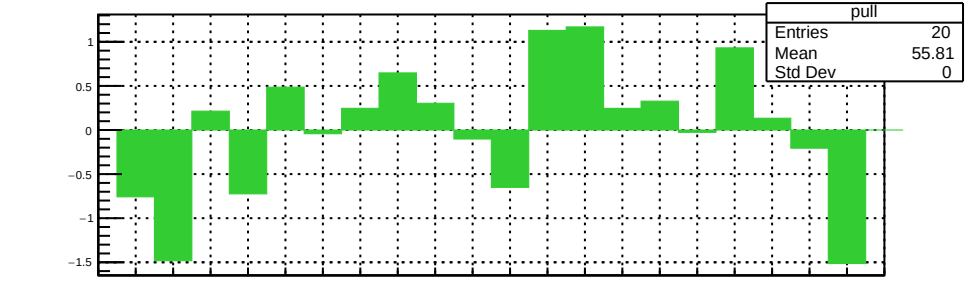

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1096 / 19
p0 542.4 ± 0.8532
600
580
560
540
520
500
480
460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

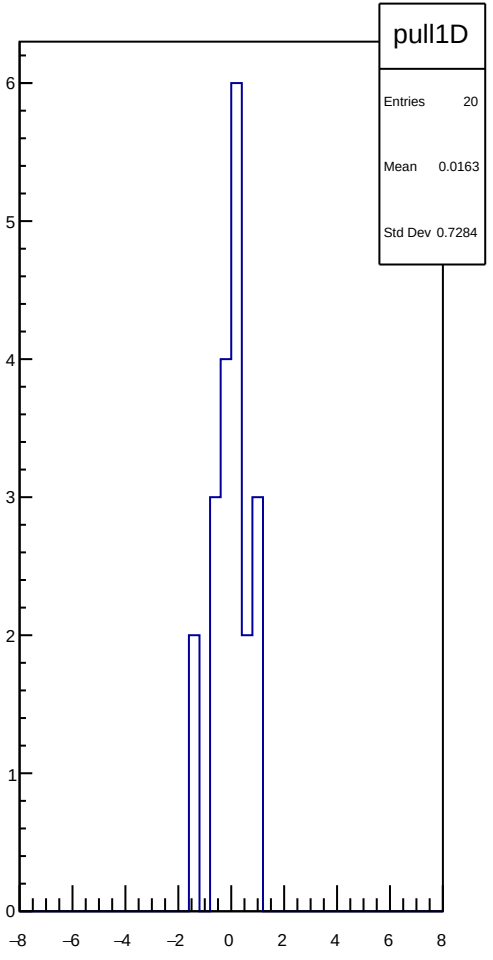

dit_asym_us_dd_mean vs run
χ² / ndf 14.54 / 19
p0 −672 ± 1733
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 85.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

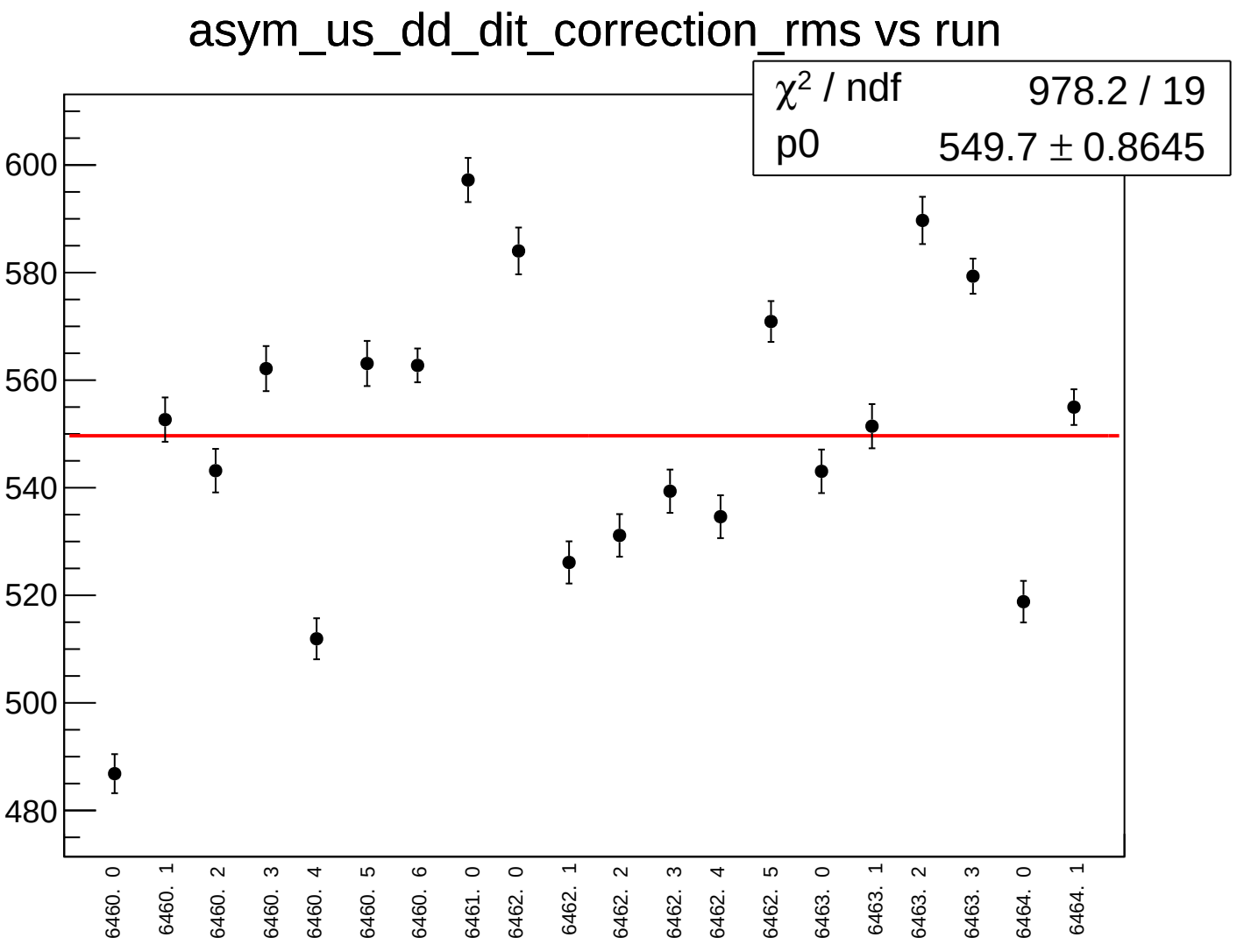

pull1D
Entries 20
Mean −0.01028
Std Dev 0.8527
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

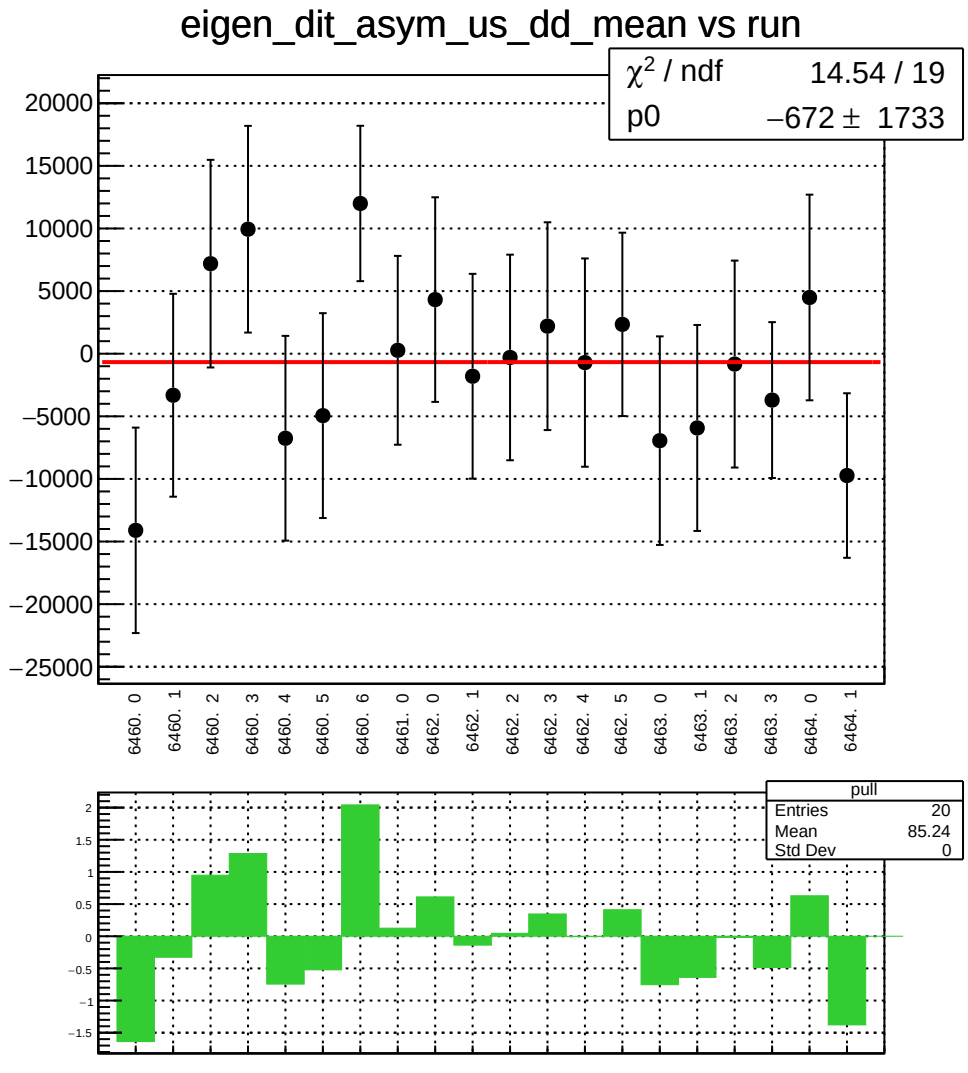

dit_asym_us_dd_rms vs run
χ² / ndf 17.56 / 19
p0 780.1 ± 1.226
795
790
785
780
775
770
765
760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

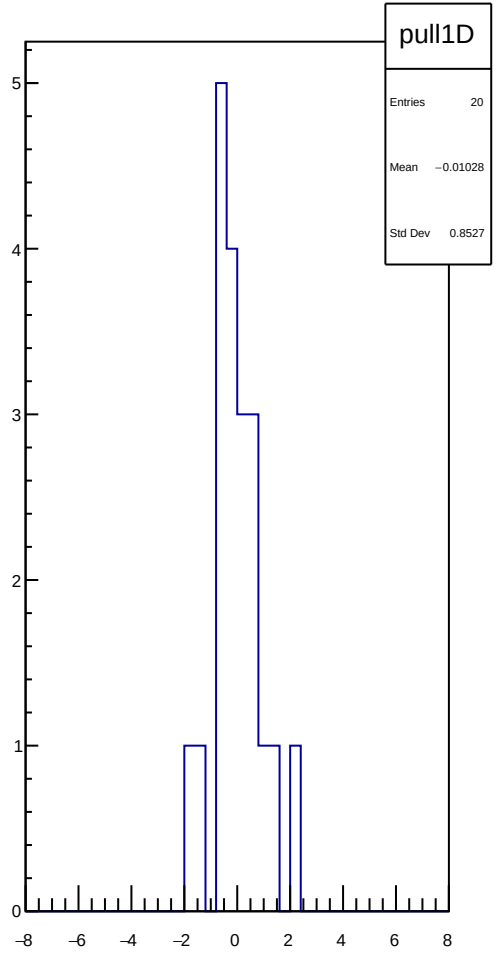

asym_us_dd_dit_correction_mean vs run
χ² / ndf 10.62 / 19
p0 −262.6 ± 1223
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

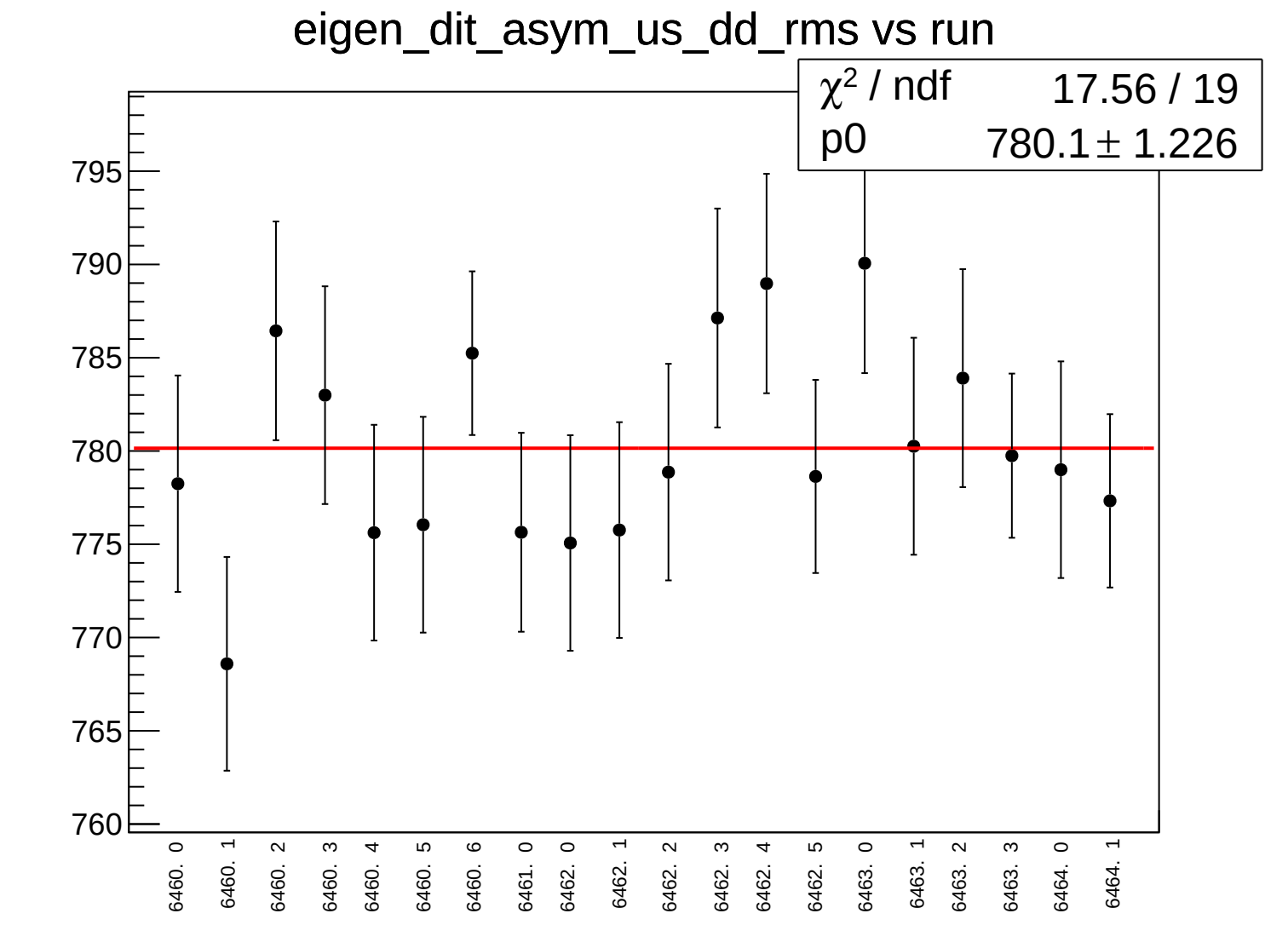

pull
Entries 20
Mean 55.81
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

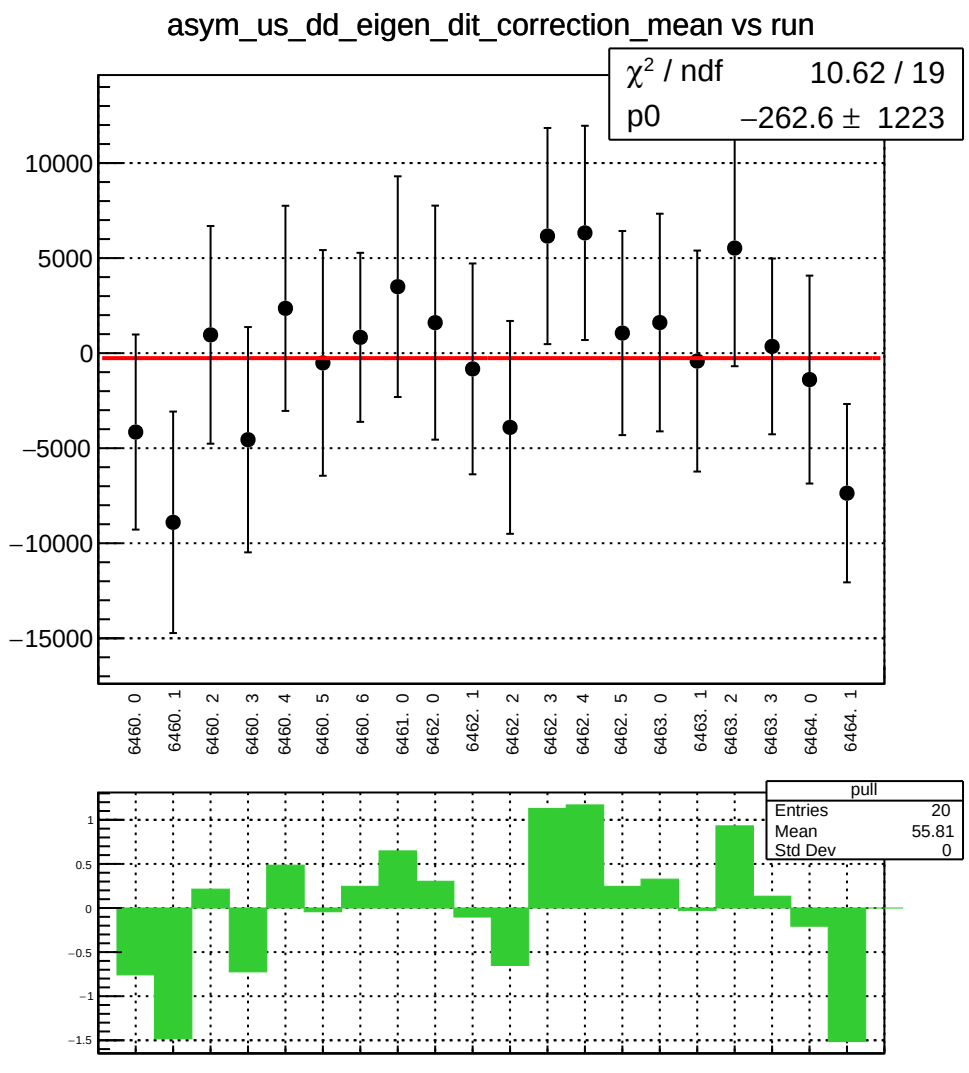

pull1D
Entries 20
Mean 0.0163
Std Dev 0.7284
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

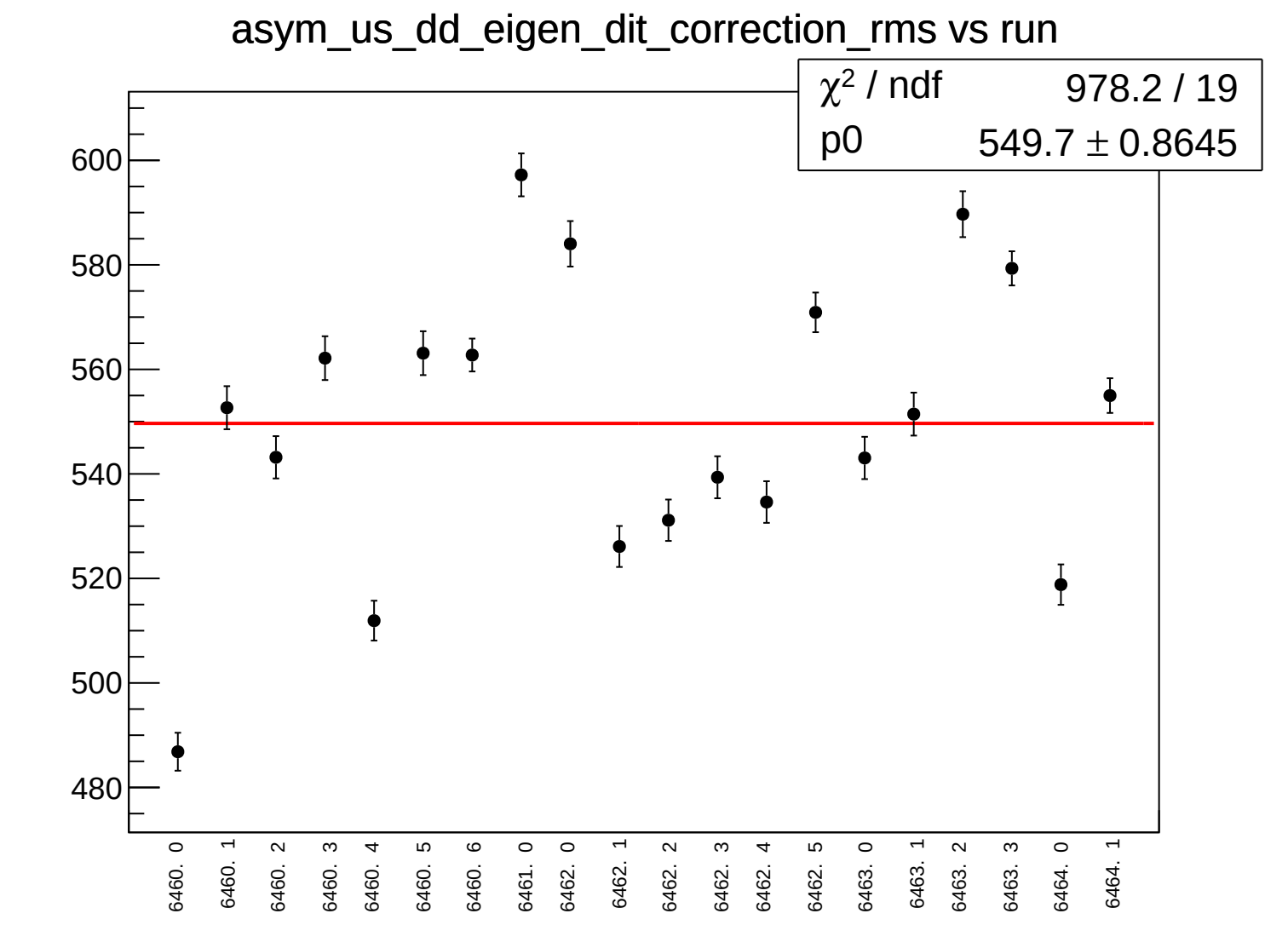

asym_us_dd_dit_correction_rms vs run
χ² / ndf 978.2 / 19
p0 549.7 ± 0.8645
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

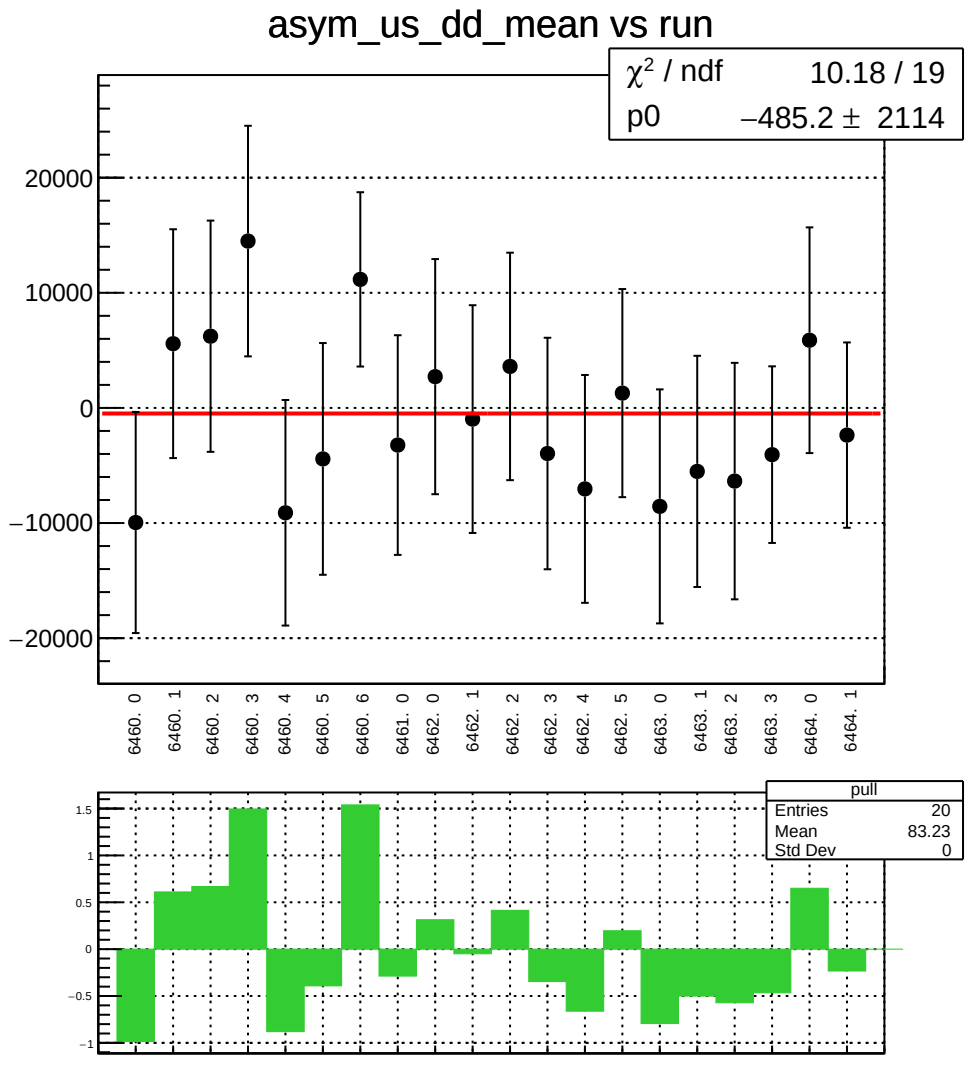

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 14.54 / 19
p0 −672 ± 1733
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 85.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

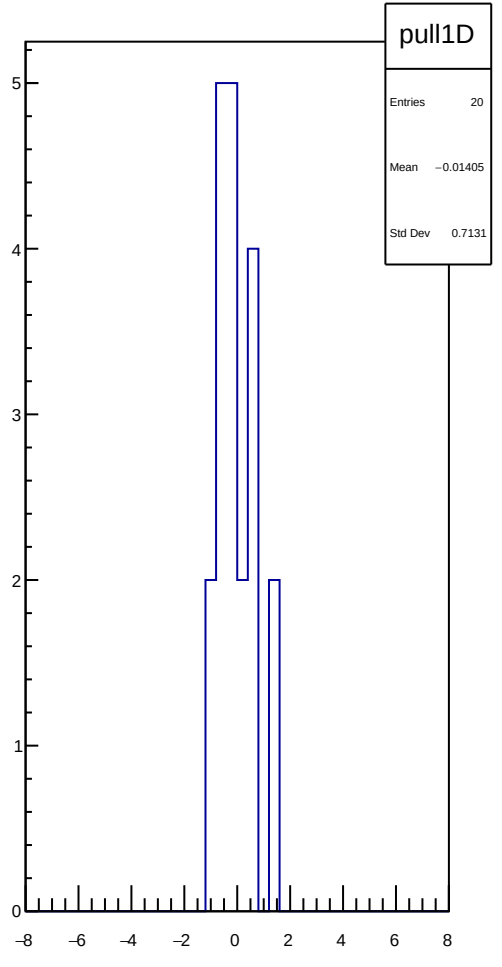

pull1D
Entries 20
Mean −0.01028
Std Dev 0.8527
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

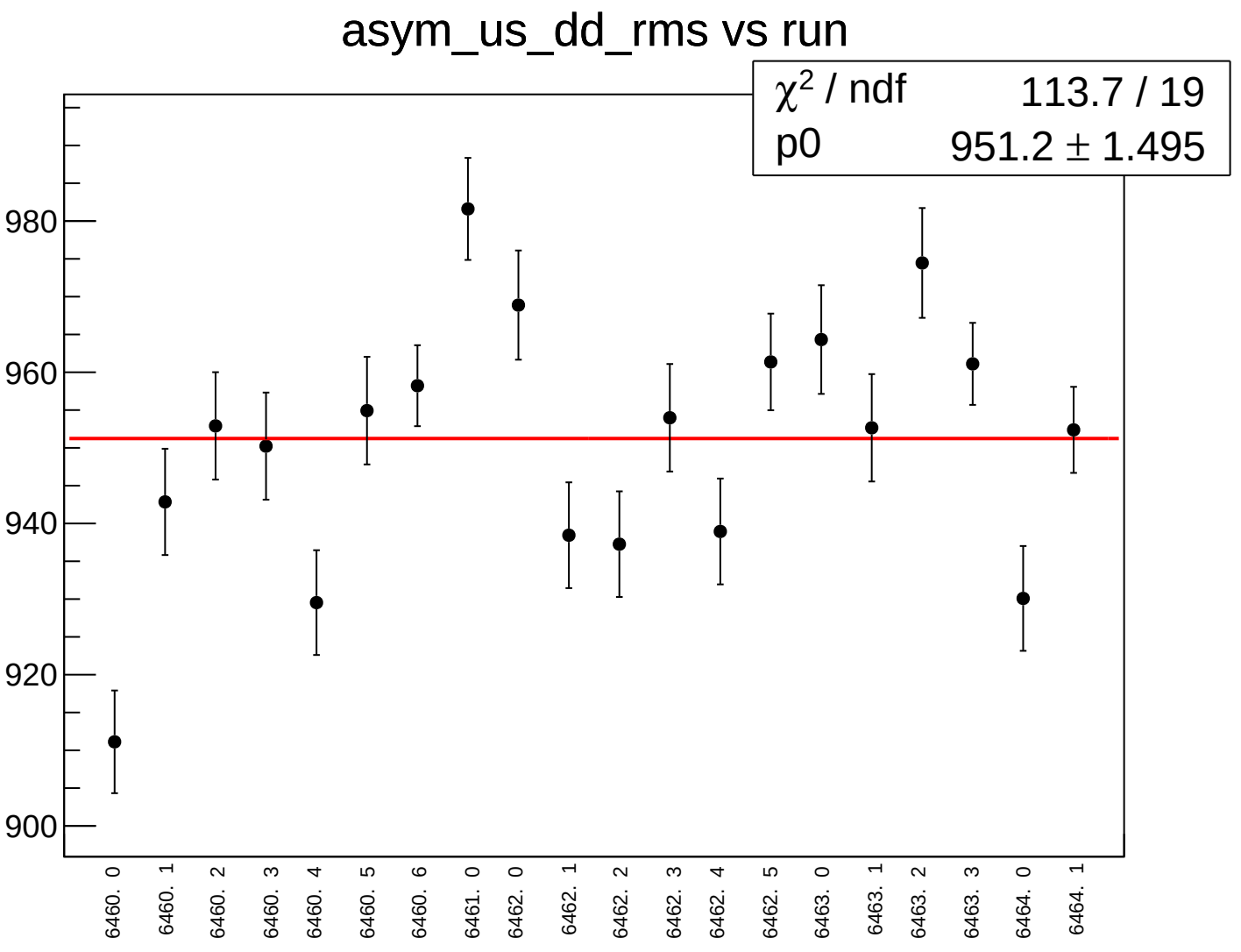

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 17.56 / 19
p0 780.1 ± 1.226
795
790
785
780
775
770
765
760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

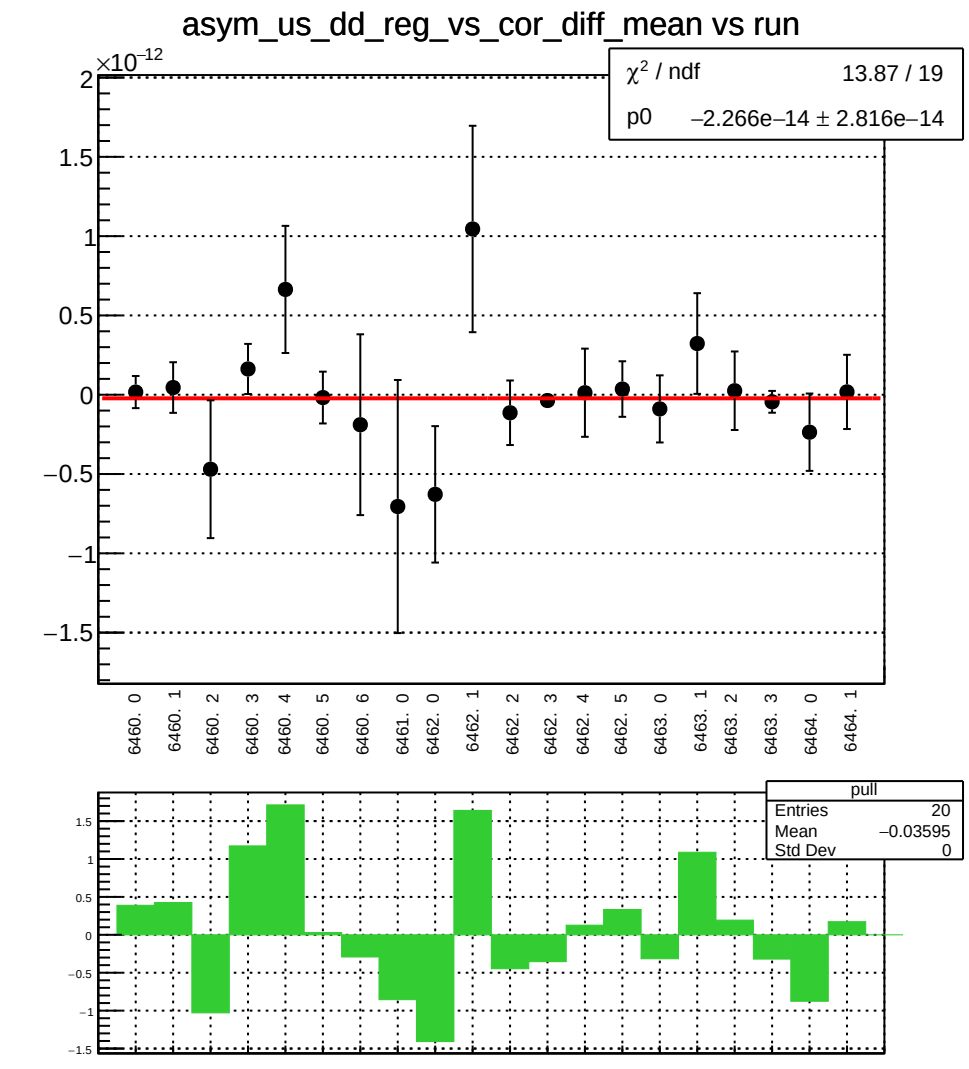

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 10.62 / 19
p0 −262.6 ± 1223
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 55.81
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0163
Std Dev 0.7284
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

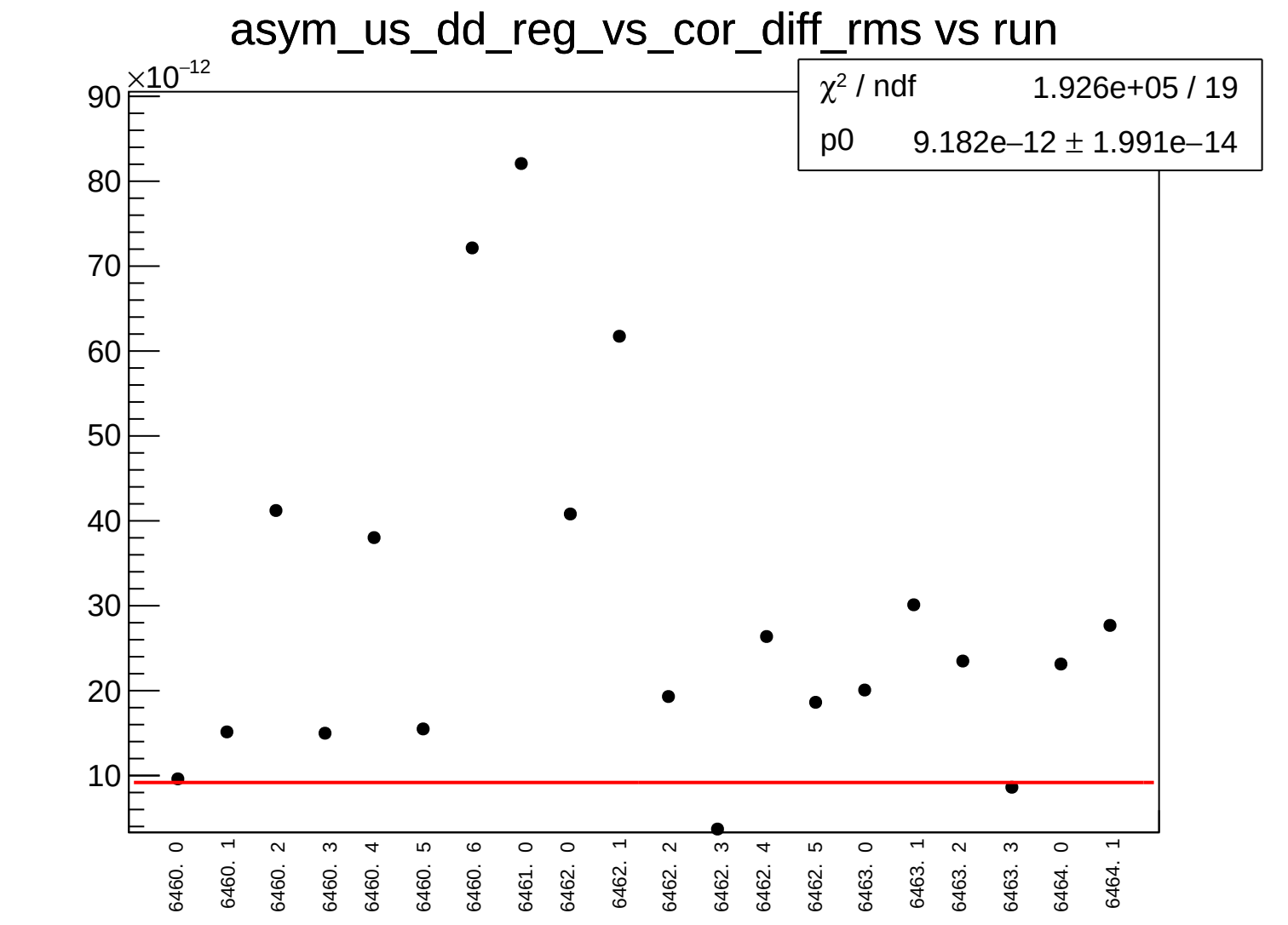

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 978.2 / 19
p0 549.7 ± 0.8645
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

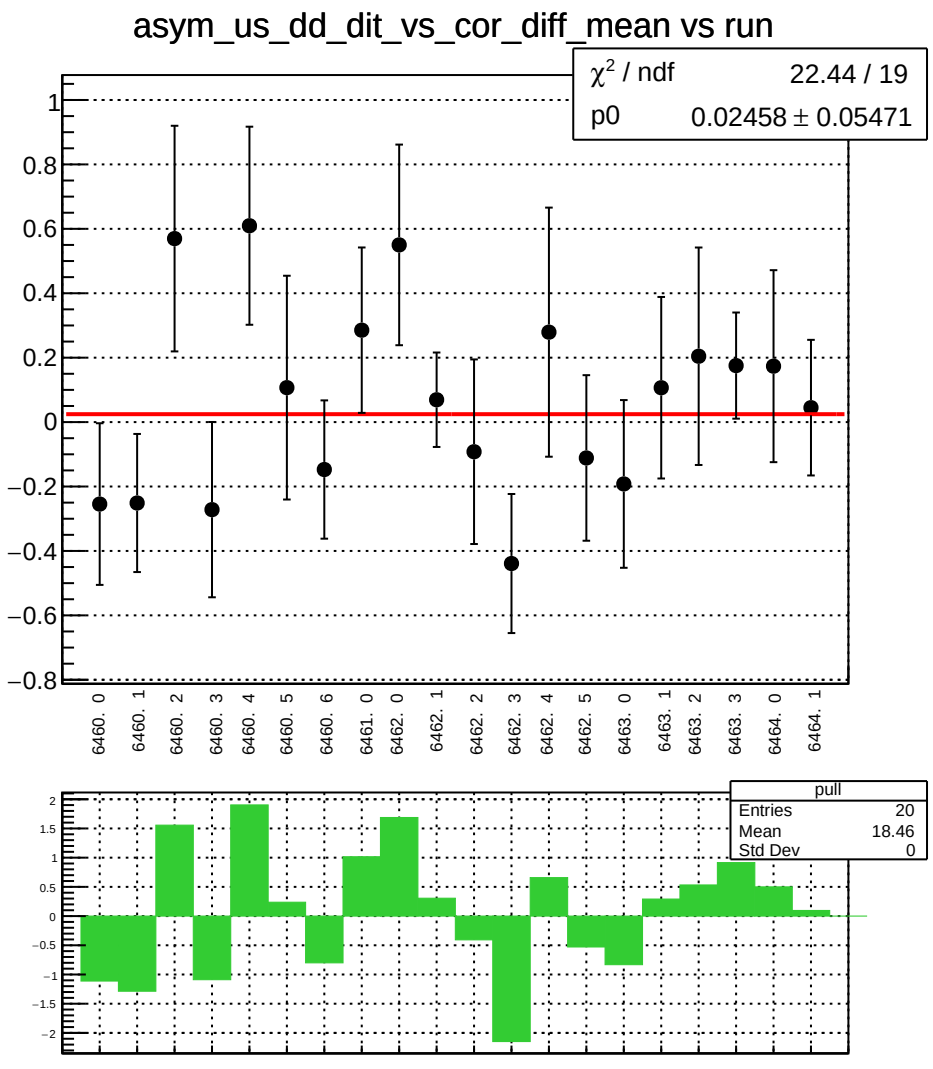

asym_us_dd_mean vs run
χ² / ndf 10.18 / 19
p0 −485.2 ± 2114
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 83.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1

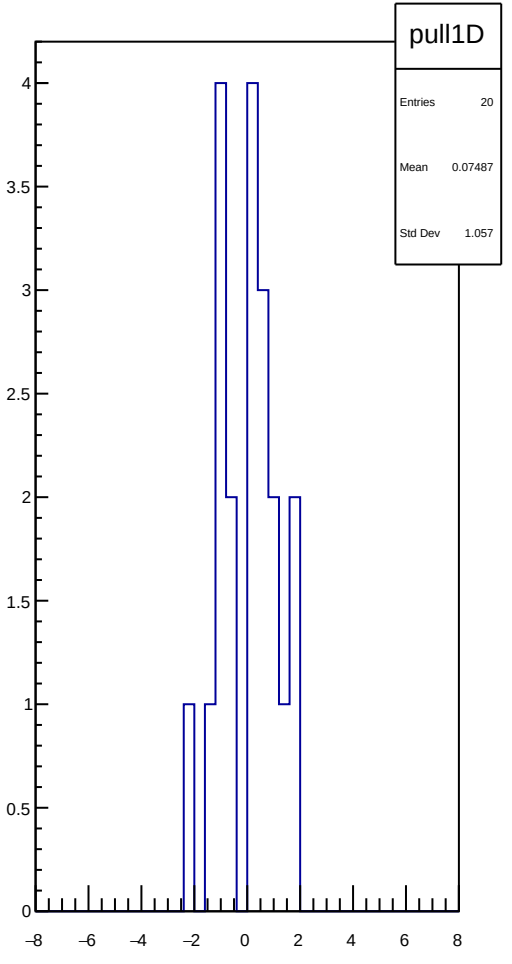

pull1D
Entries 20
Mean −0.01405
Std Dev 0.7131
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

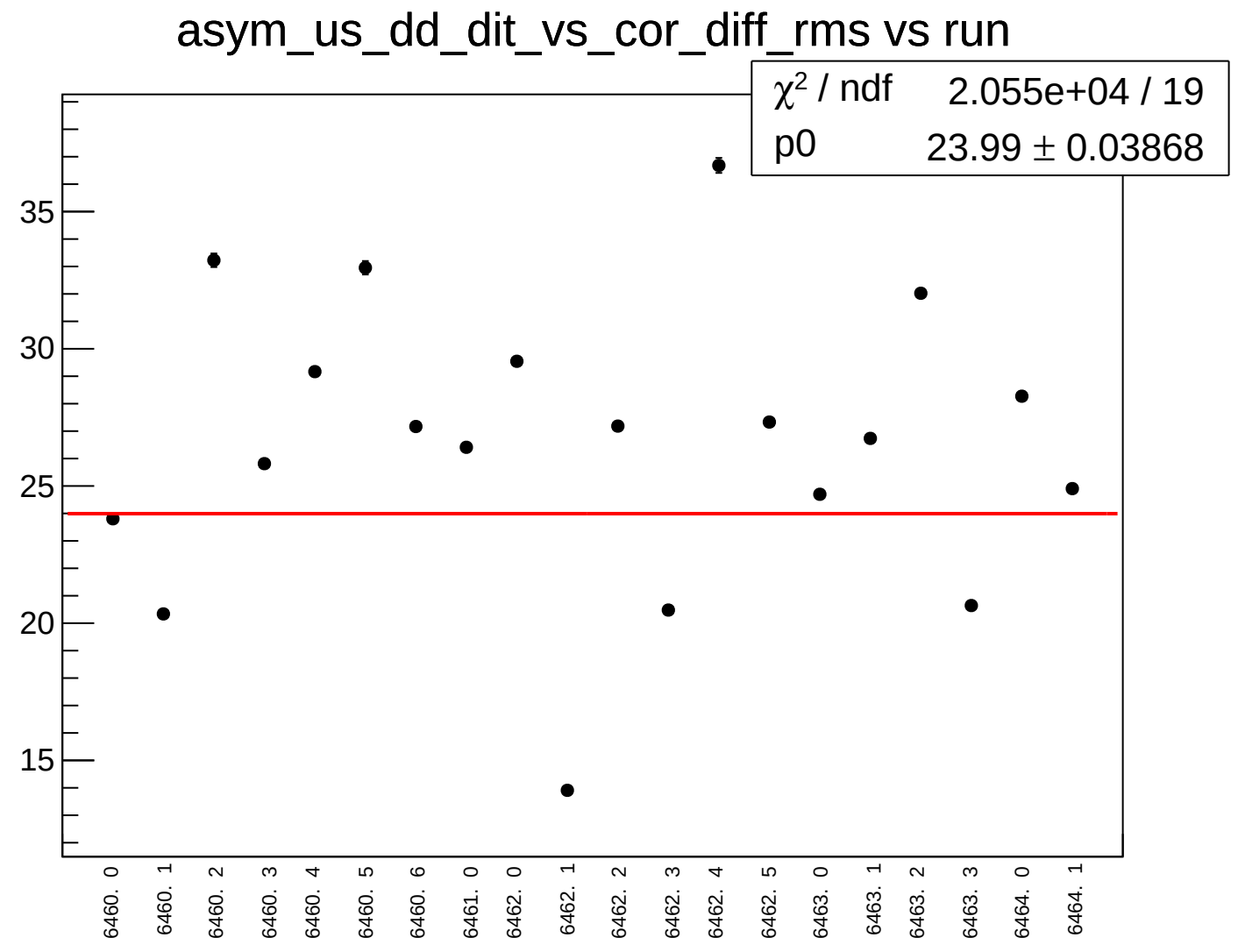

asym_us_dd_rms vs run
χ^2 / ndf 113.7 / 19
p0 951.2 ± 1.495
980
960
940
920
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

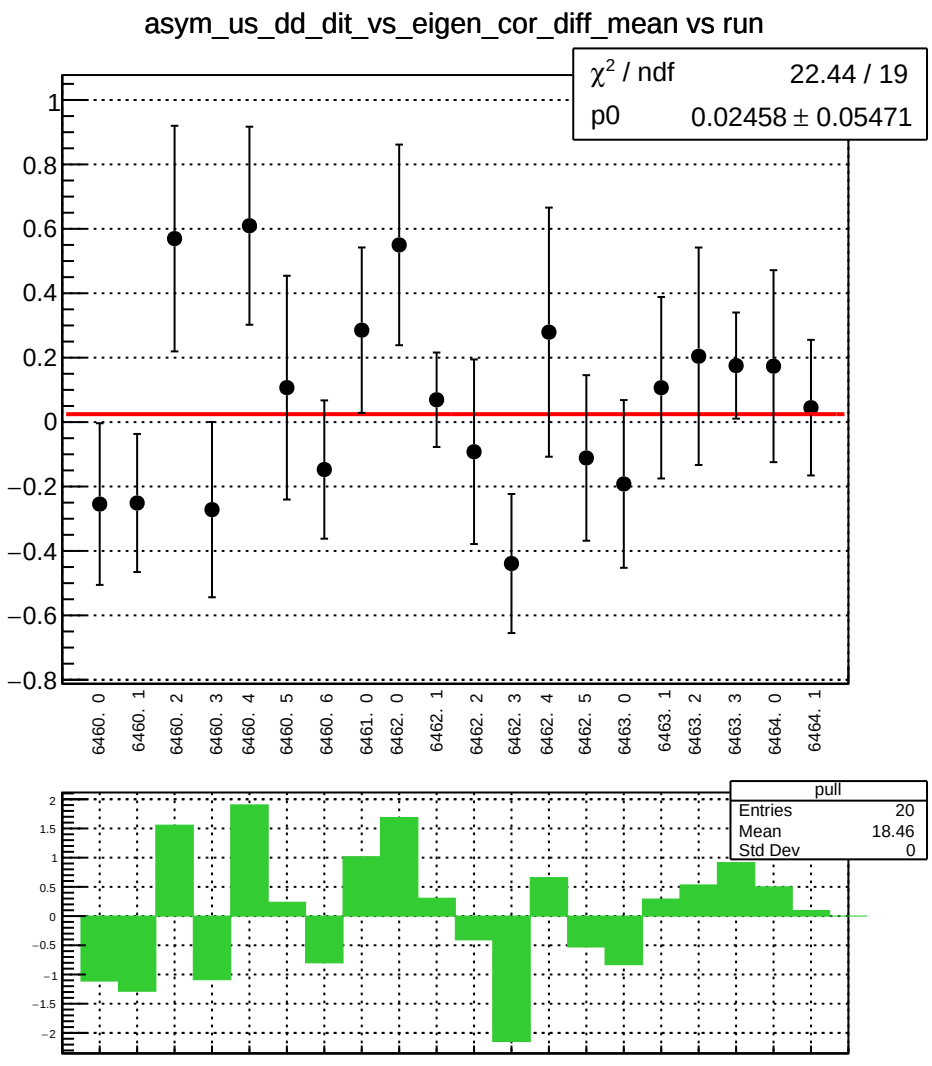

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 13.87 / 19
p0 −2.266e−14 ± 2.816e−14
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.03595
Std Dev 0
pull1D
Entries 20
Mean 0.06962
Std Dev 0.8297
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

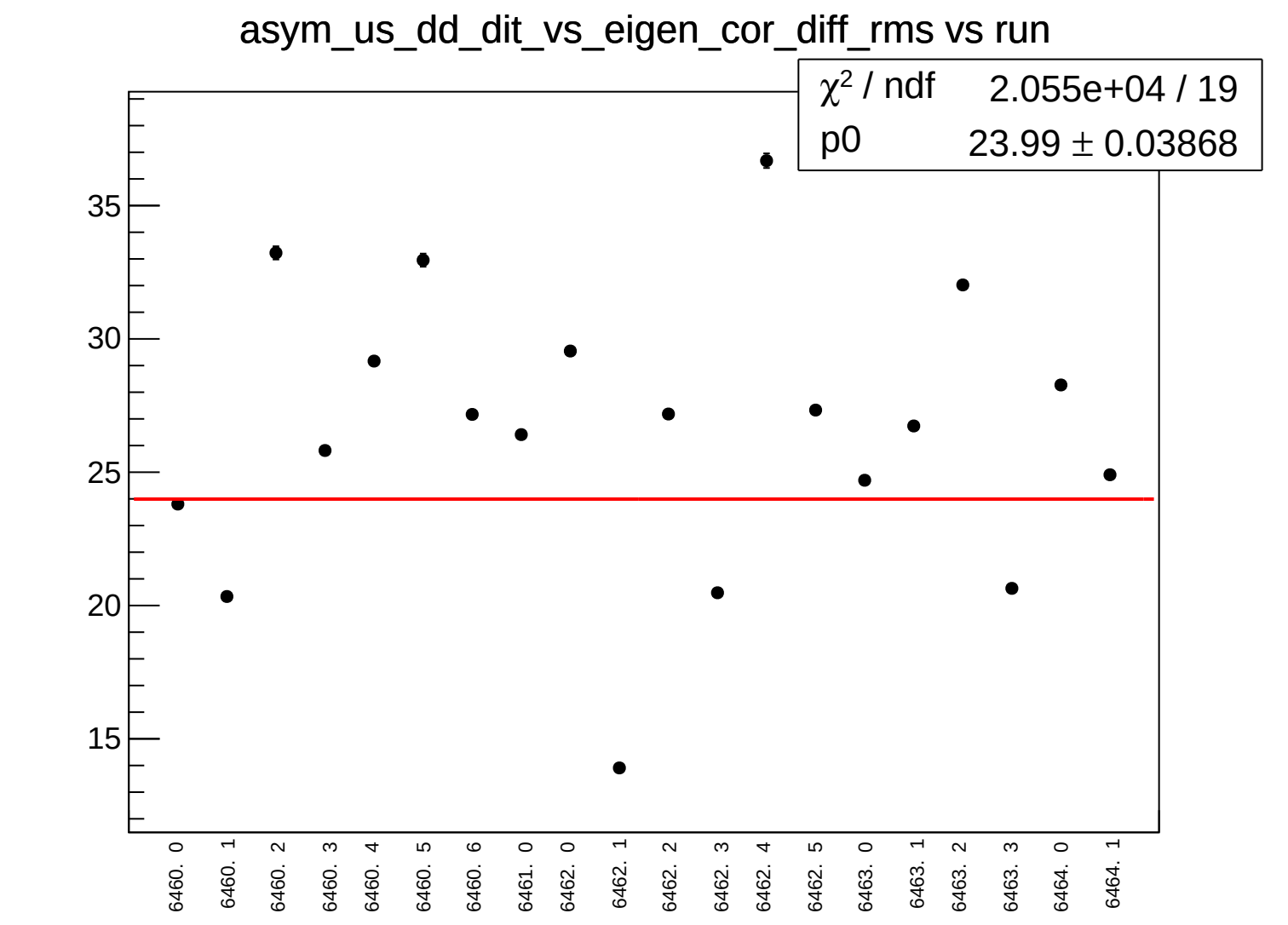

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.926e+05 / 19
p0 9.182e−12 ± 1.991e−14
90
80
70
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

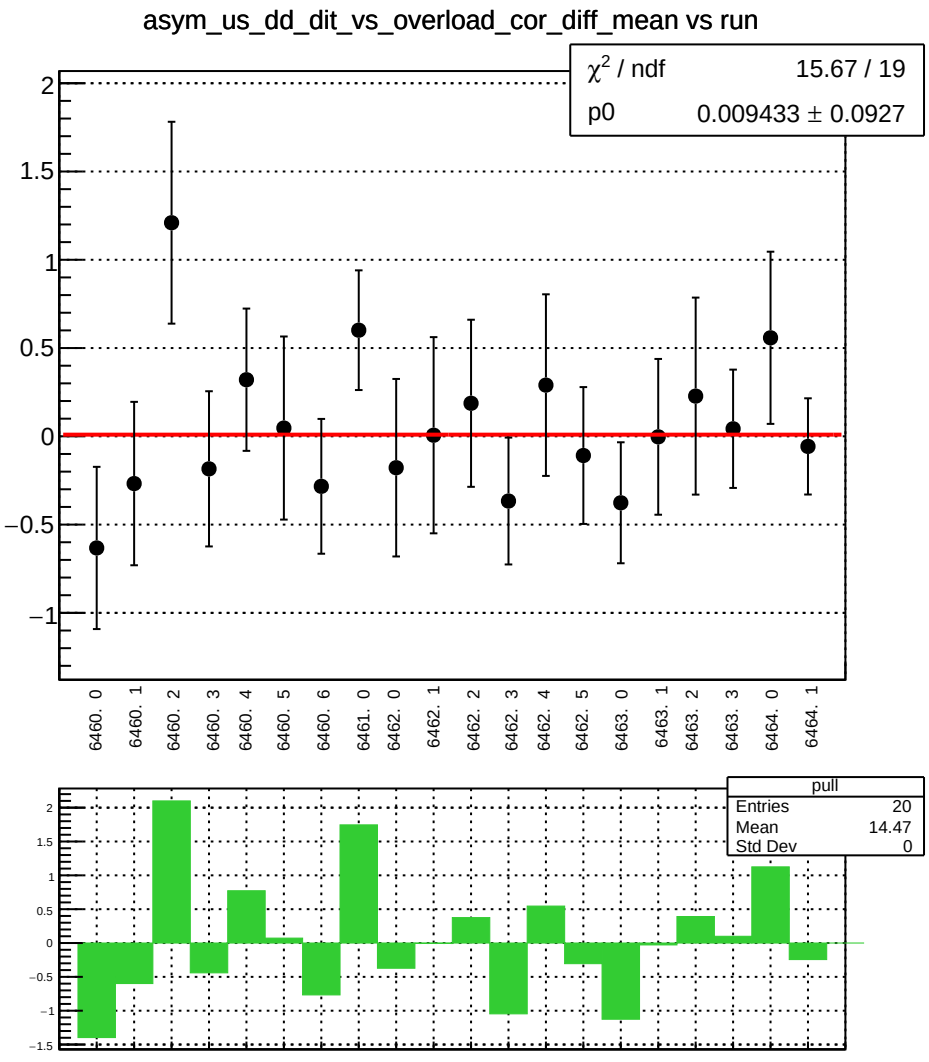

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 22.44 / 19
p0 0.02458 ± 0.05471
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

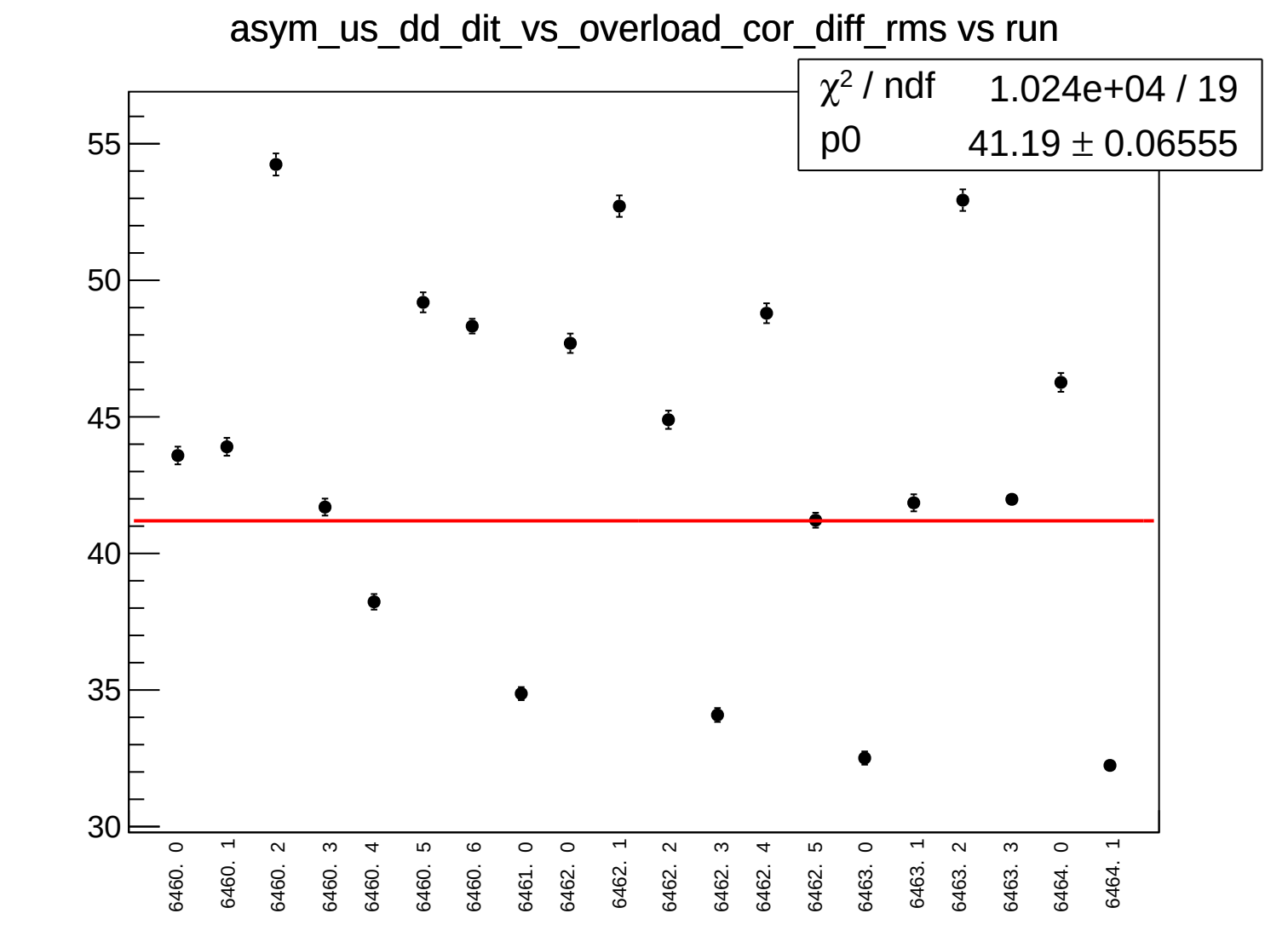

pull1D
Entries 20
Mean 0.07487
Std Dev 1.057
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

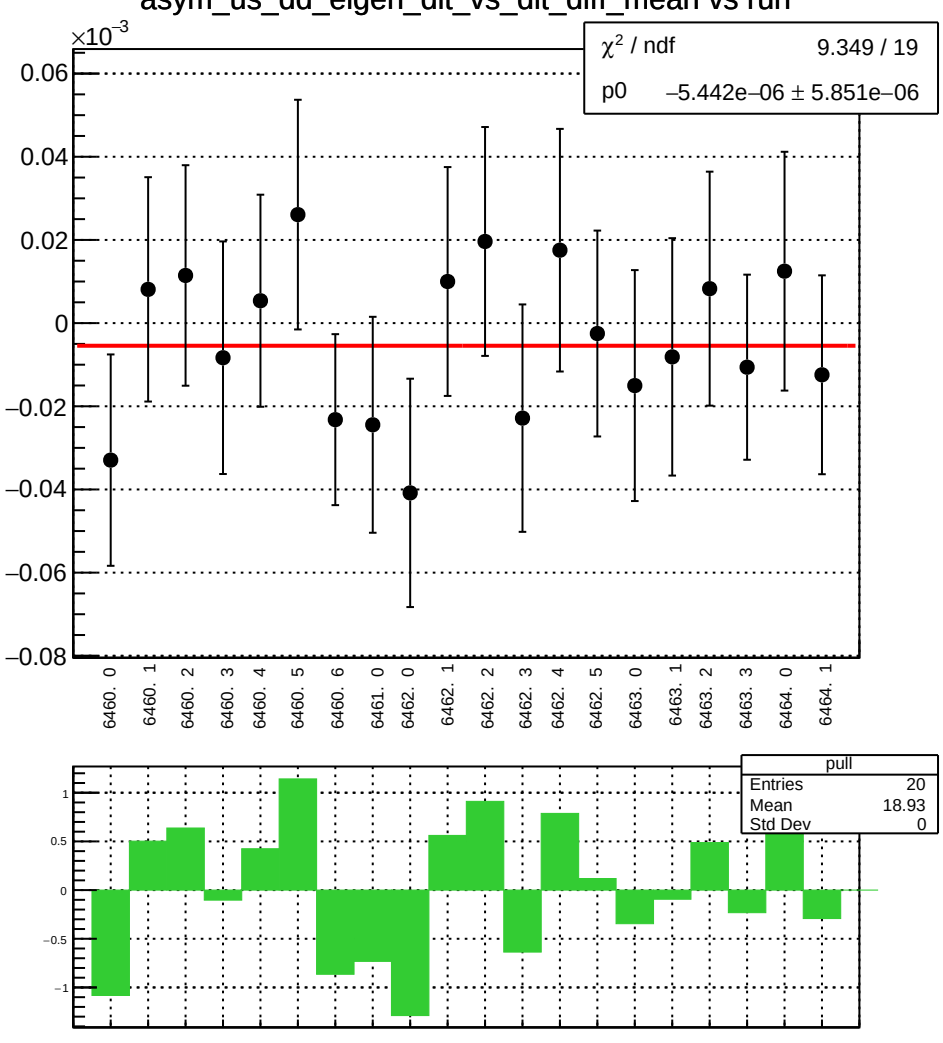

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.055e+04 / 19
p0 23.99 ± 0.03868
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

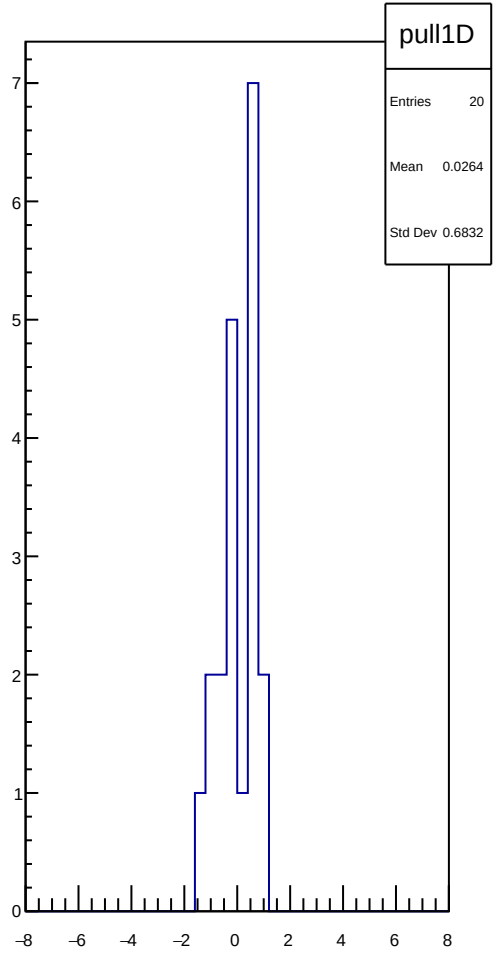

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.44 / 19
p0 0.02458 ± 0.05471
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.07487
Std Dev 1.057
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

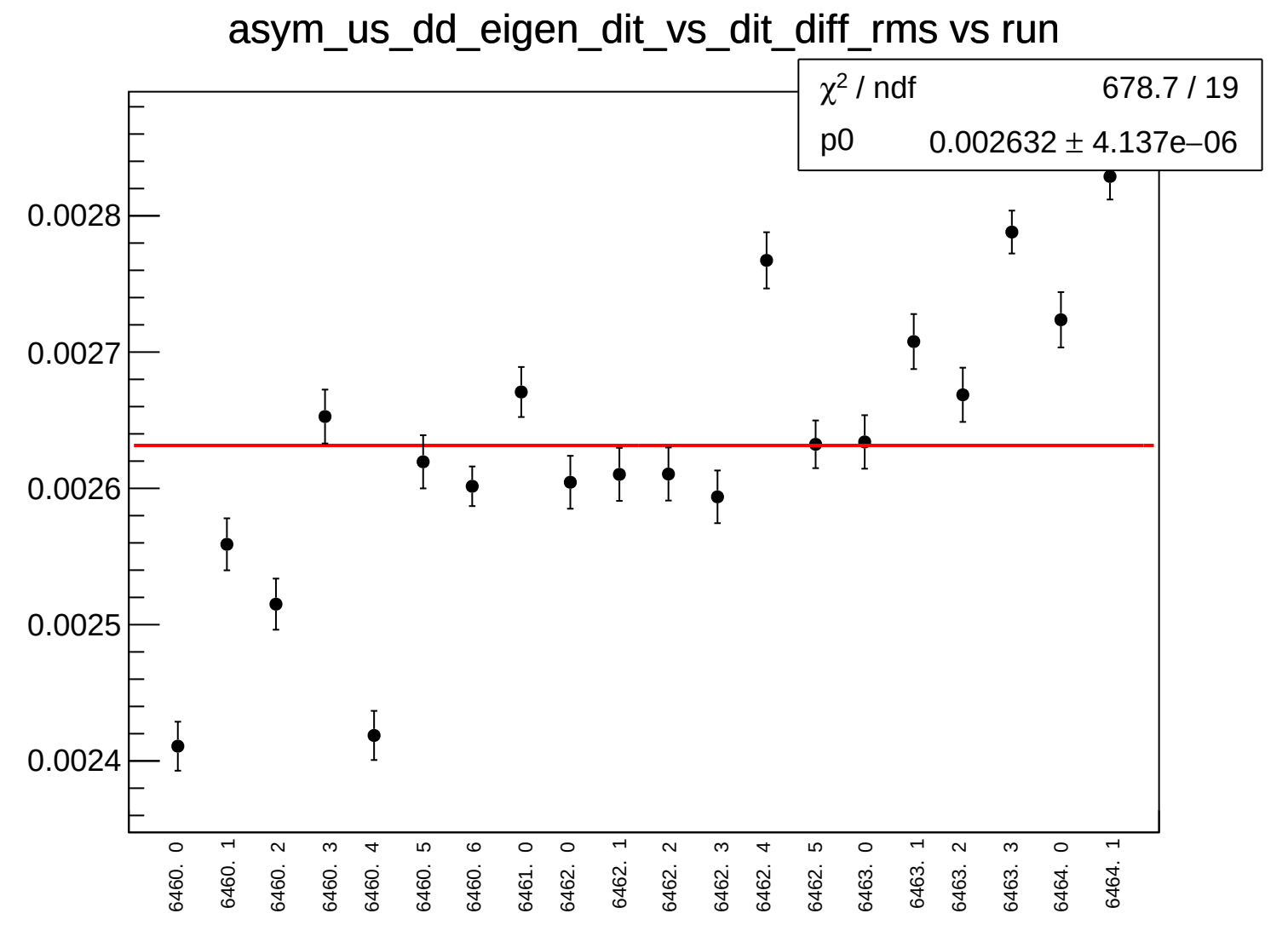

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.055e+04 / 19
p0 23.99 ± 0.03868
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

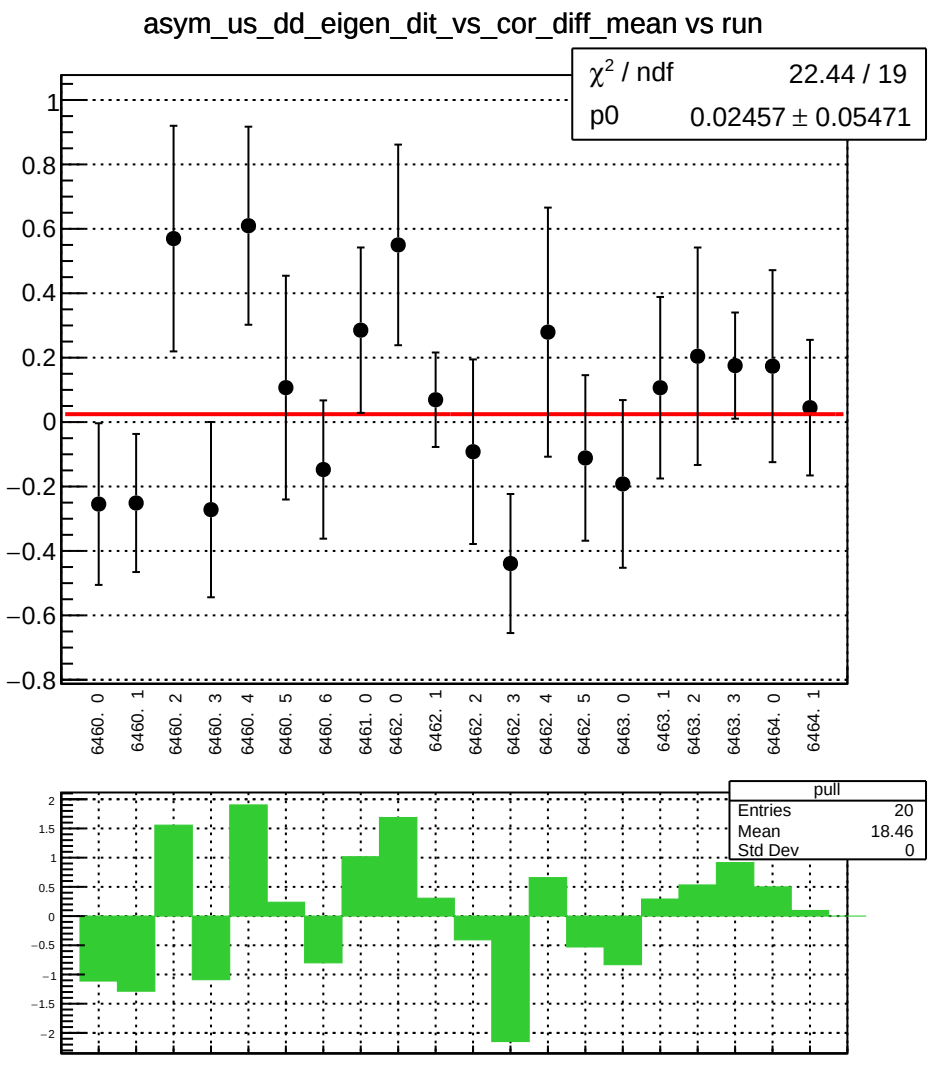

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 15.67 / 19
p0 0.009433 ± 0.0927
2
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 14.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.04487
Std Dev 0.884
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

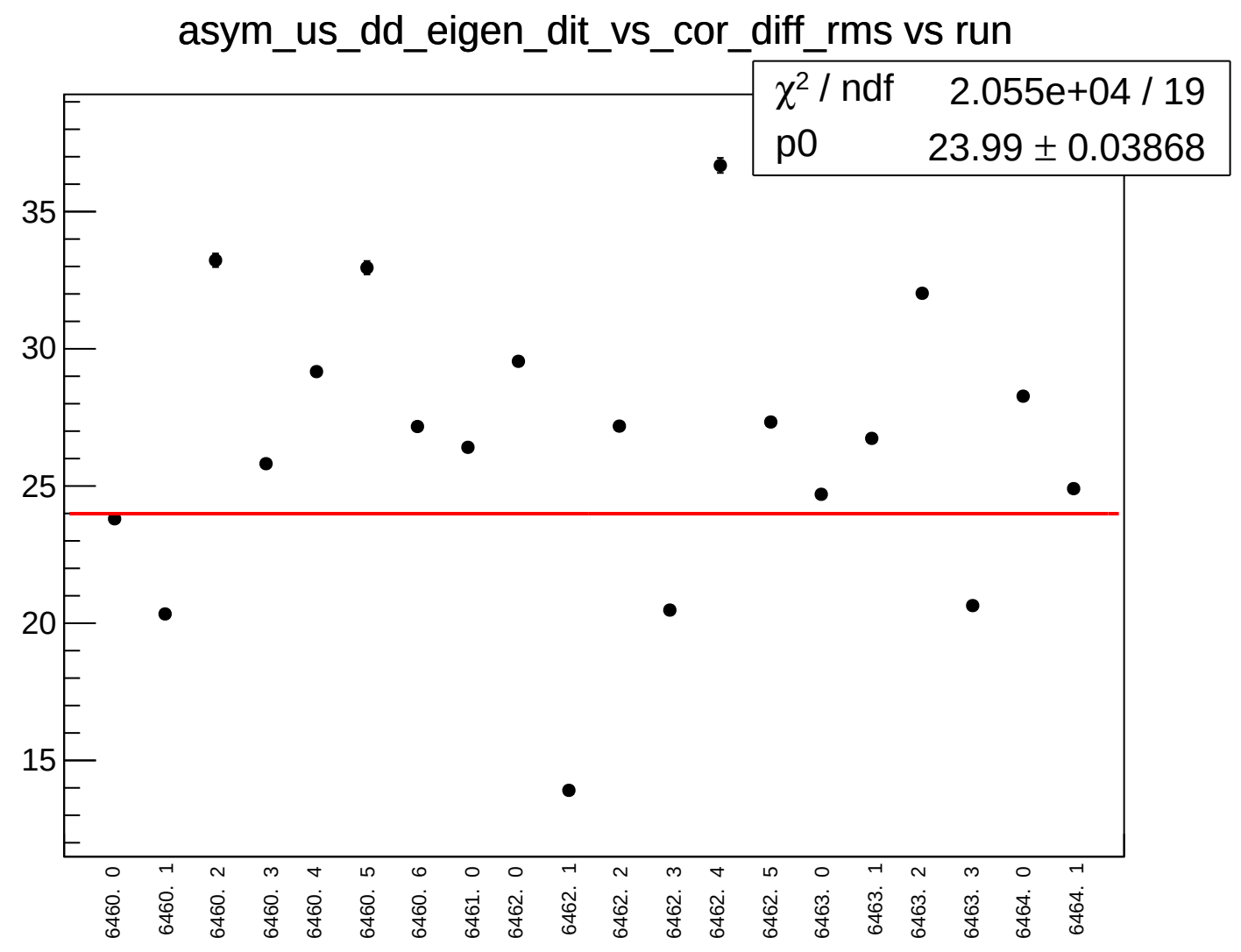

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.024e+04 / 19
p0 41.19 ± 0.06555
55
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

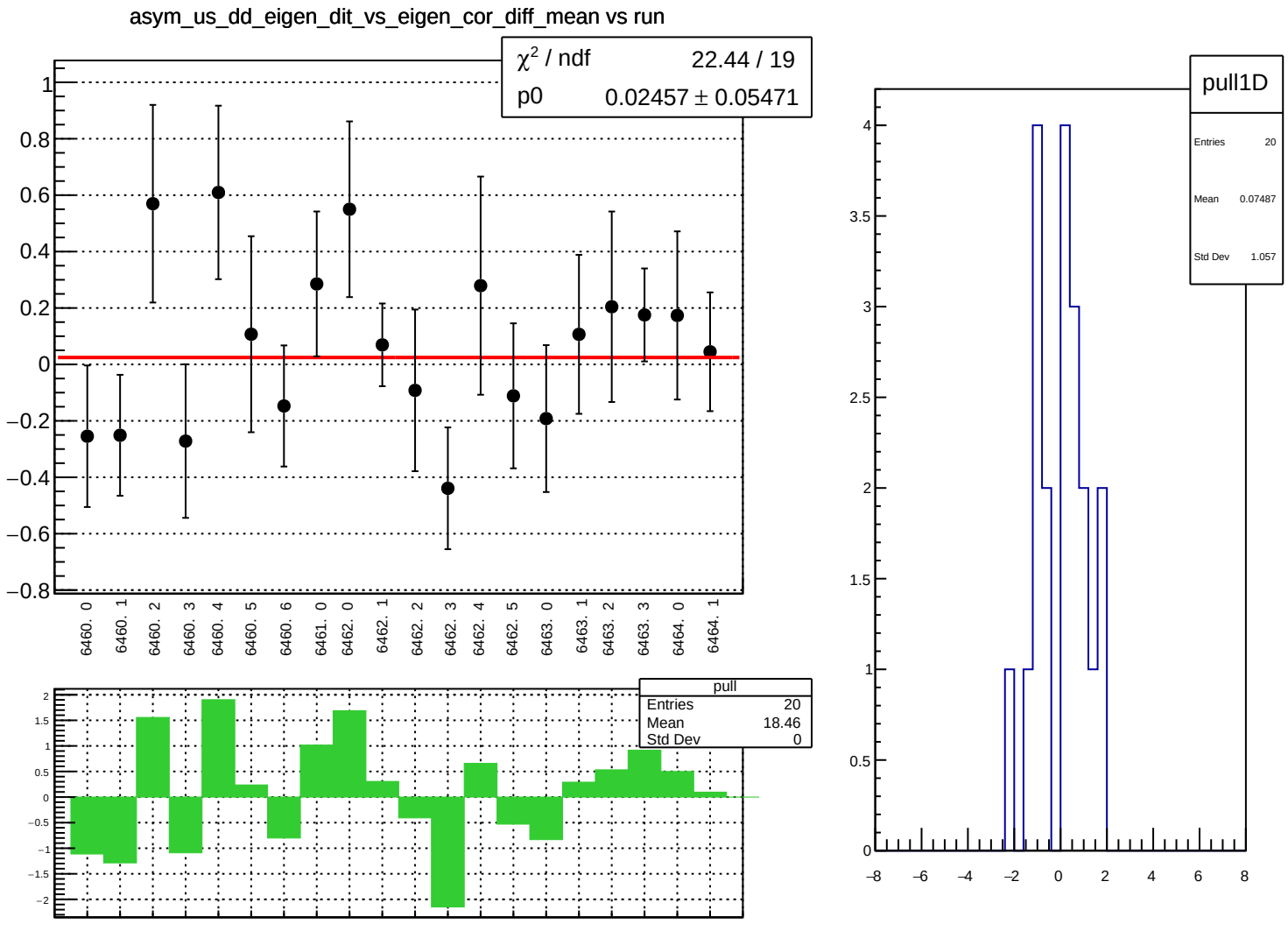

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 9.349 / 19
p0 −5.442e−06 ± 5.851e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.93
Std Dev 0
1
0.5
0
−0.5
−1

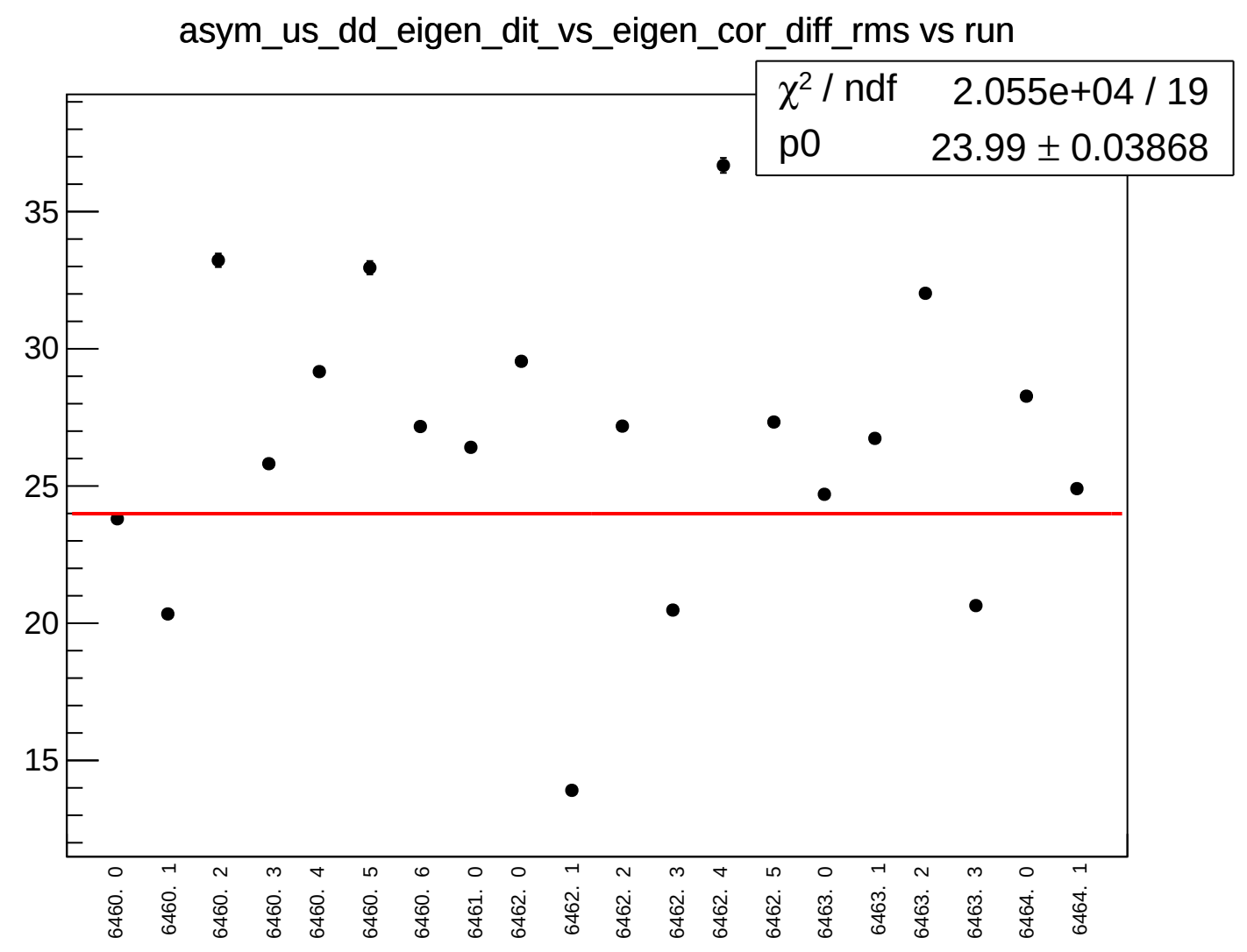

pull1D
Entries 20
Mean 0.0264
Std Dev 0.6832
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

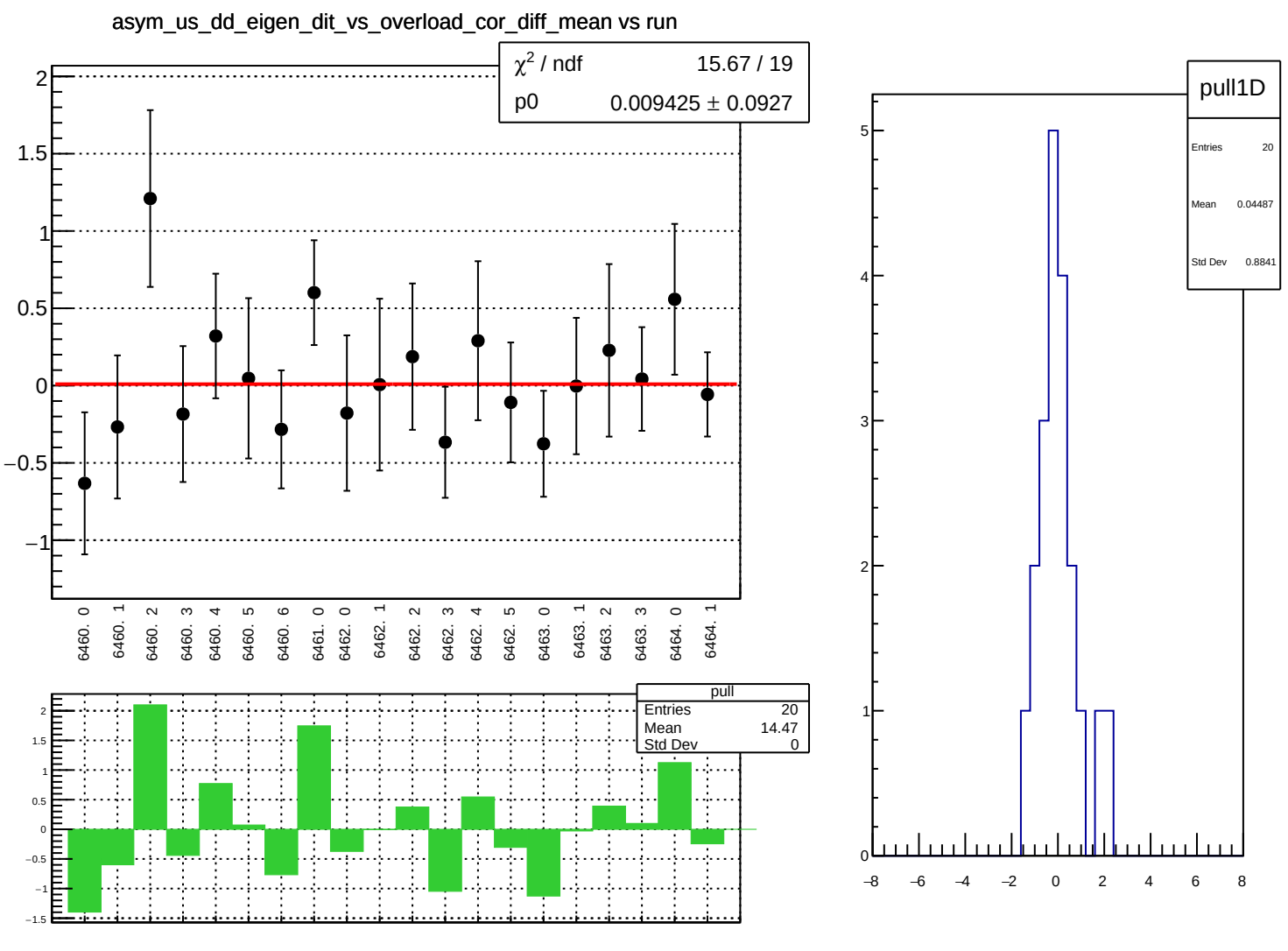

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 678.7 / 19
p0 0.002632 ± 4.137e−06
0.0028
0.0027
0.0026
0.0025
0.0024
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

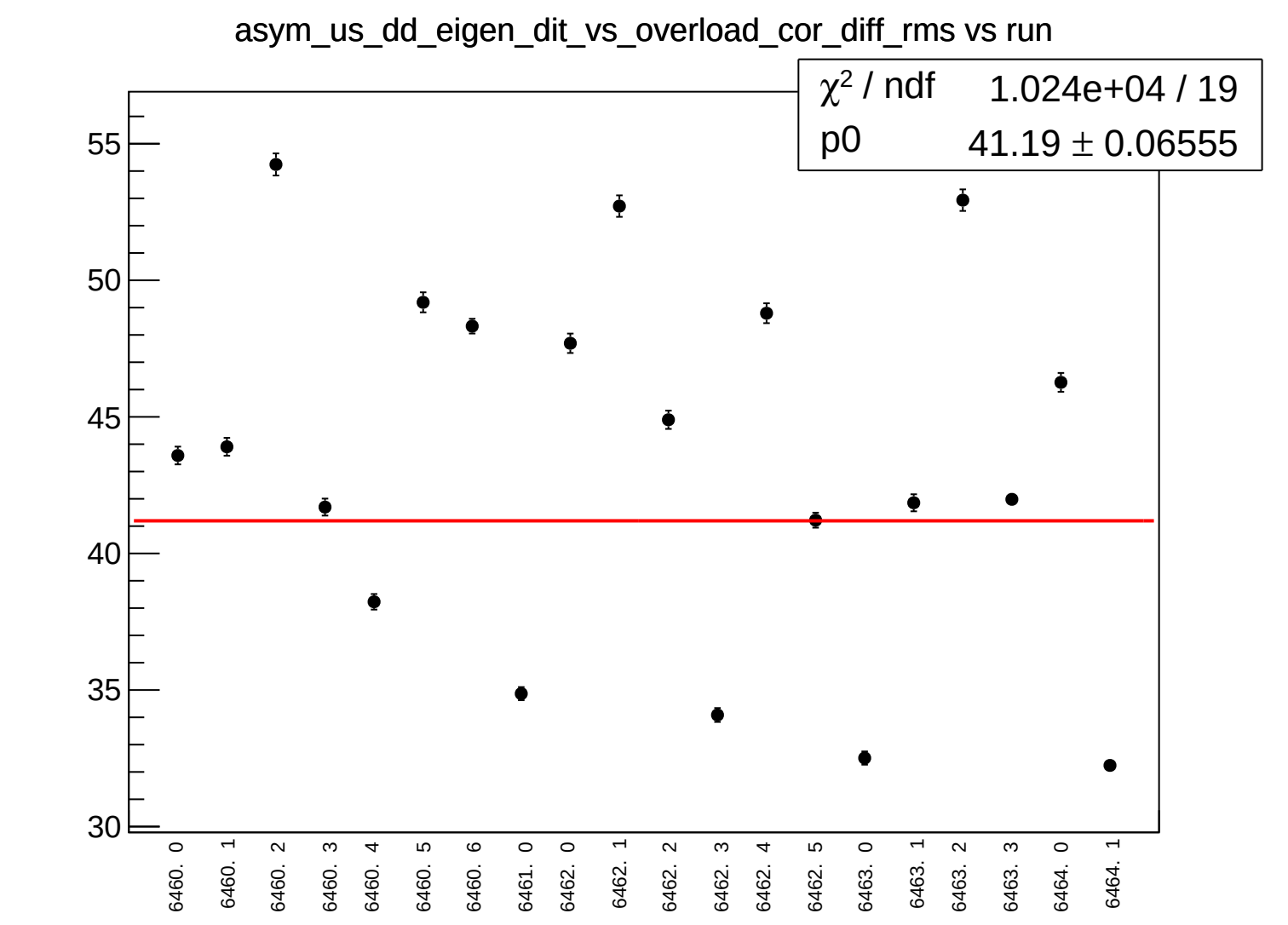

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.44 / 19
p0 0.02457 ± 0.05471
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.07487
Std Dev 1.057
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

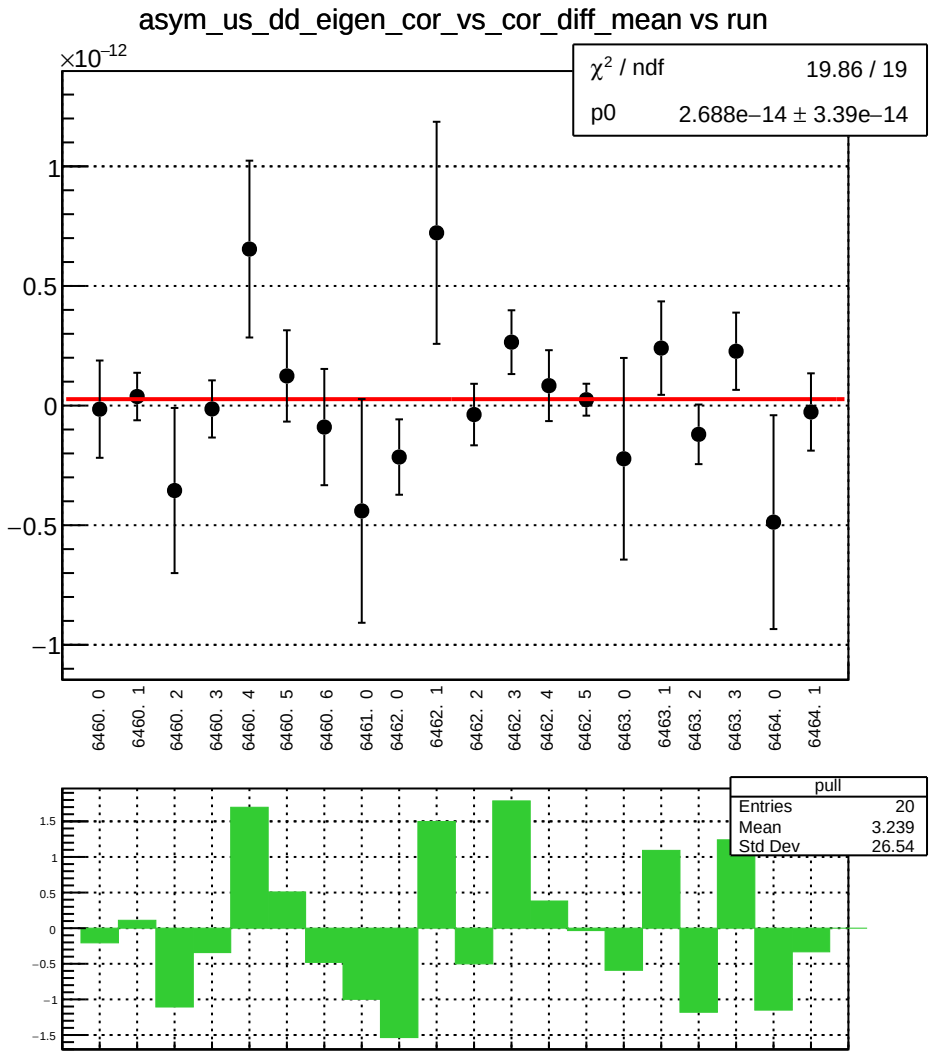

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.055e+04 / 19
p0 23.99 ± 0.03868
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

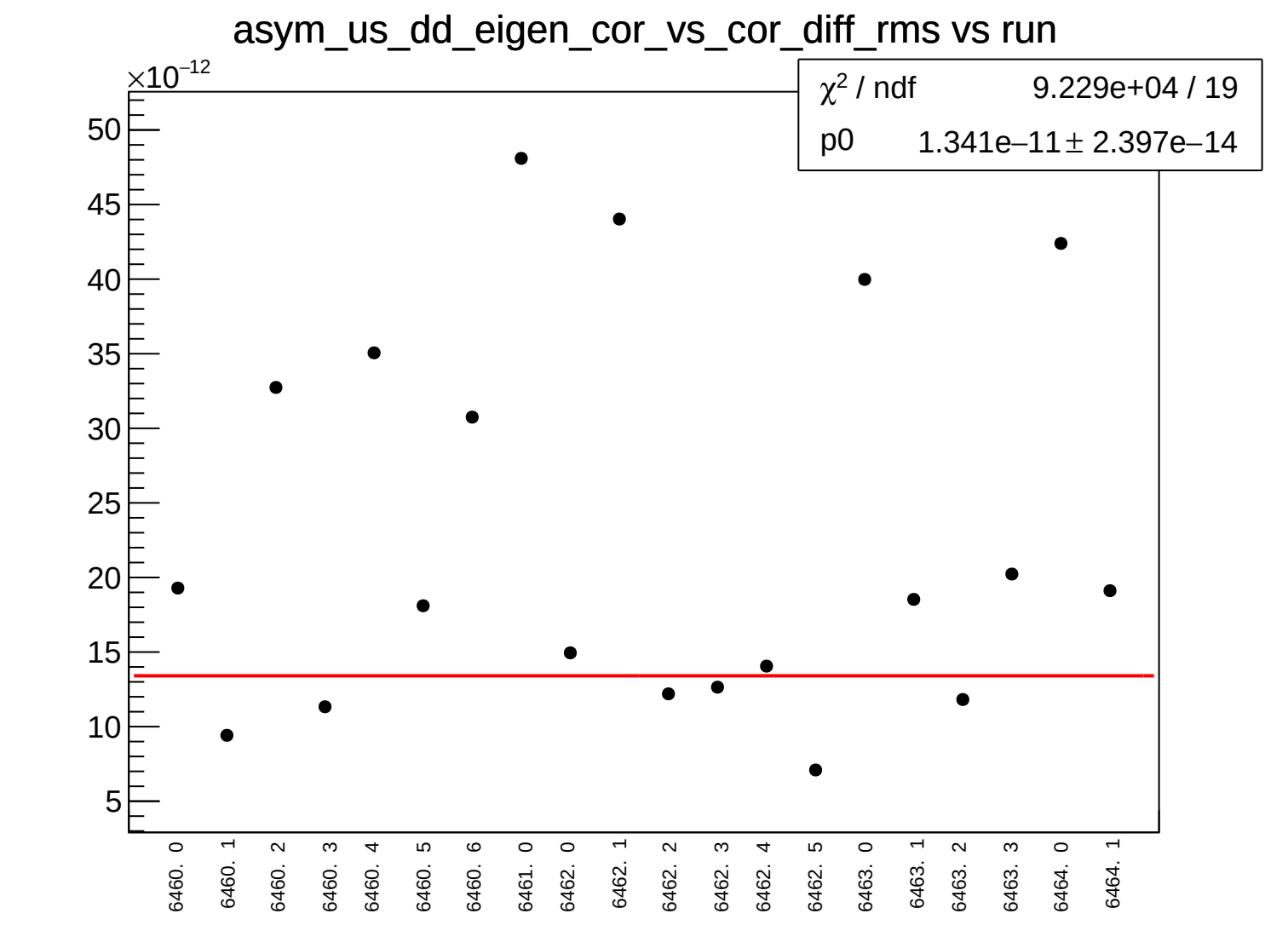

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.44 / 19
p0 0.02457 ± 0.05471
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.46
Std Dev 0
pull1D
Entries 20
Mean 0.07487
Std Dev 1.057

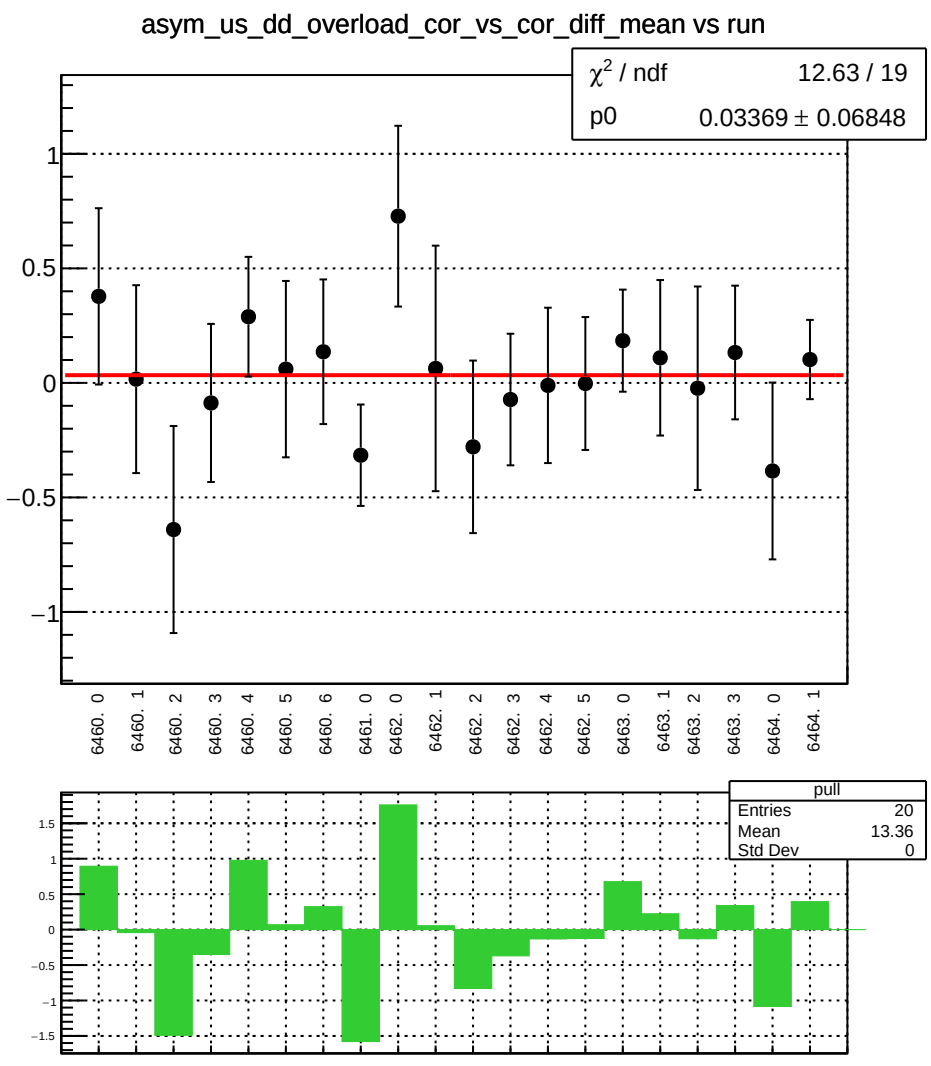

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.055e+04 / 19
p0 23.99 ± 0.03868
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

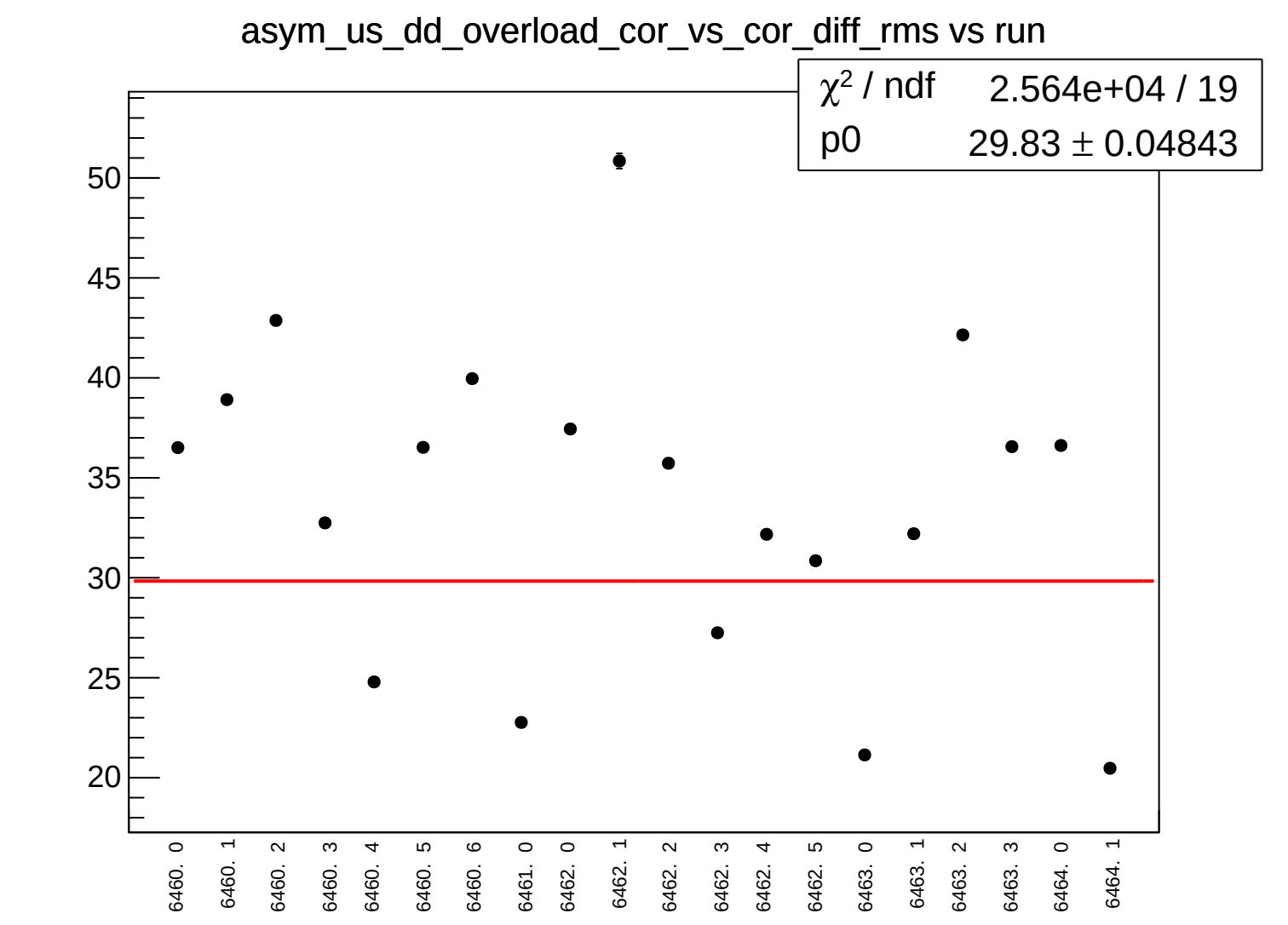

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 15.67 / 19
p0 0.009425 ± 0.0927
2
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 14.47
Std Dev 0
pull1D
Entries 20
Mean 0.04487
Std Dev 0.8841
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

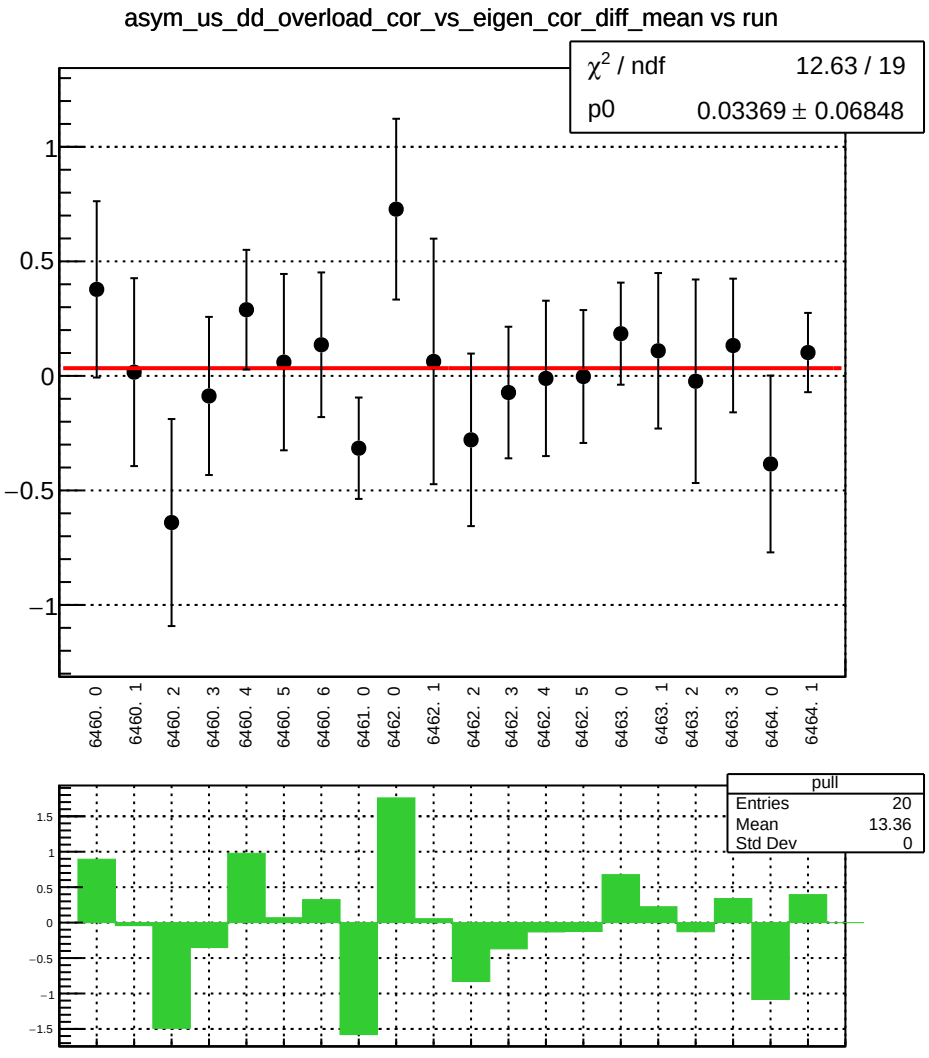

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.024e+04 / 19
p0 41.19 ± 0.06555
55
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

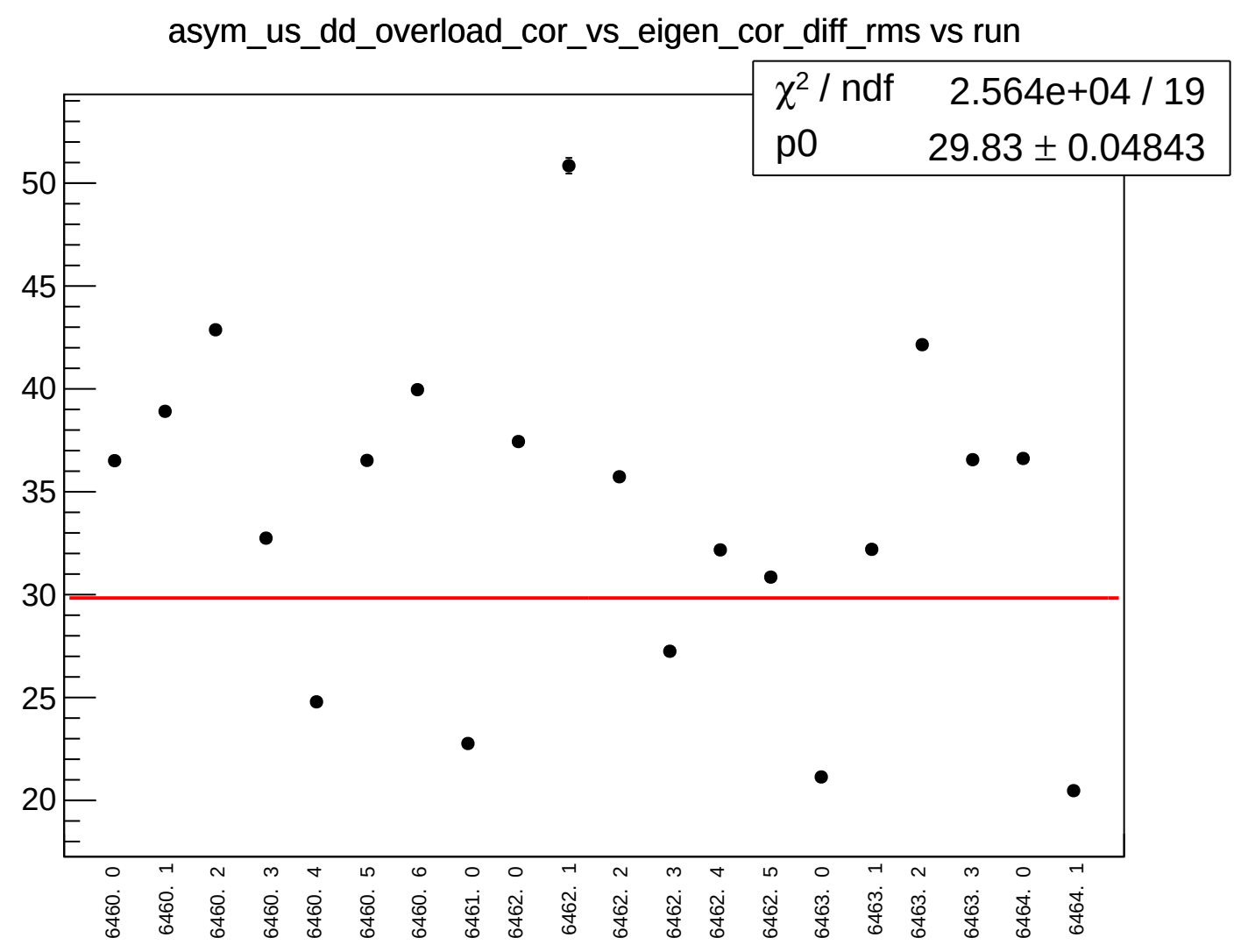

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.86 / 19
p0 2.688e−14 ± 3.39e−14
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.239
Std Dev 26.54
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.00714
Std Dev 0.9966
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

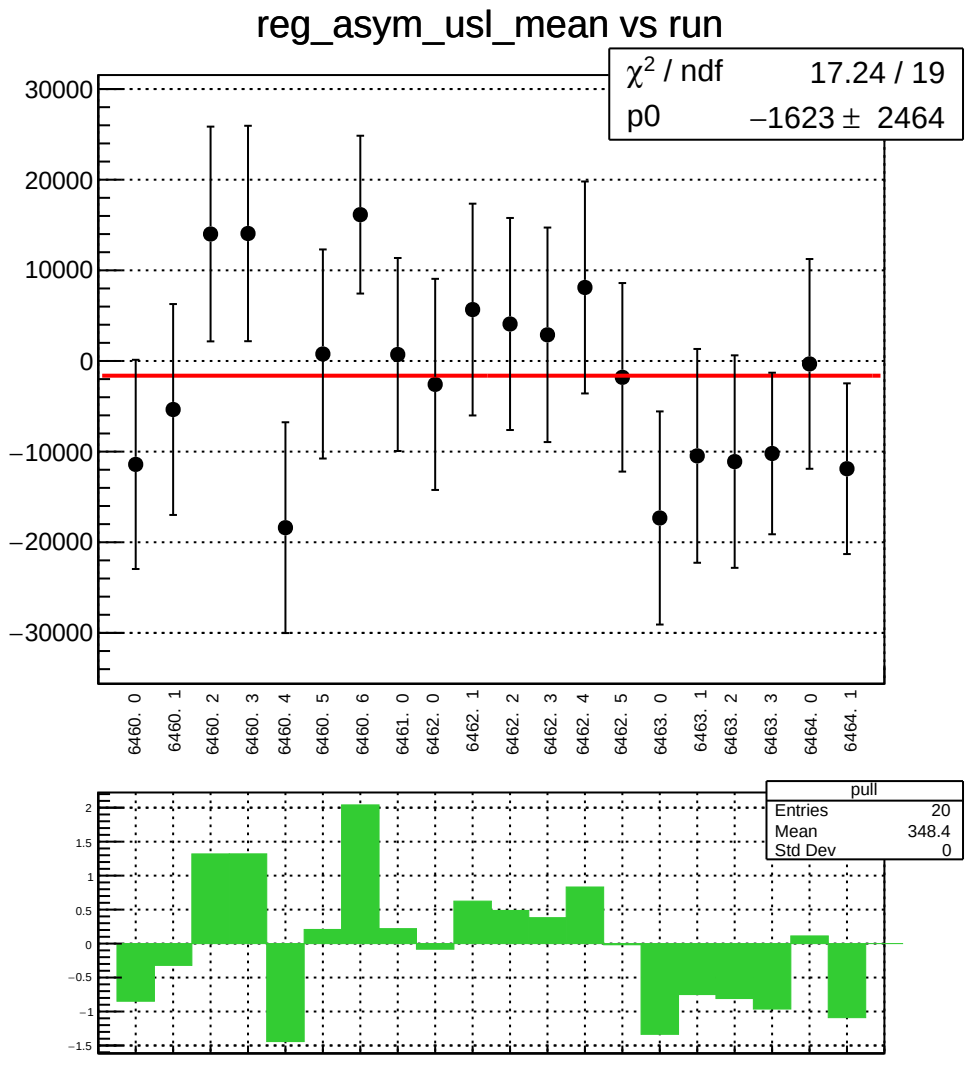

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.229e+04 / 19
p0 1.341e−11 ± 2.397e−14
50
45
40
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

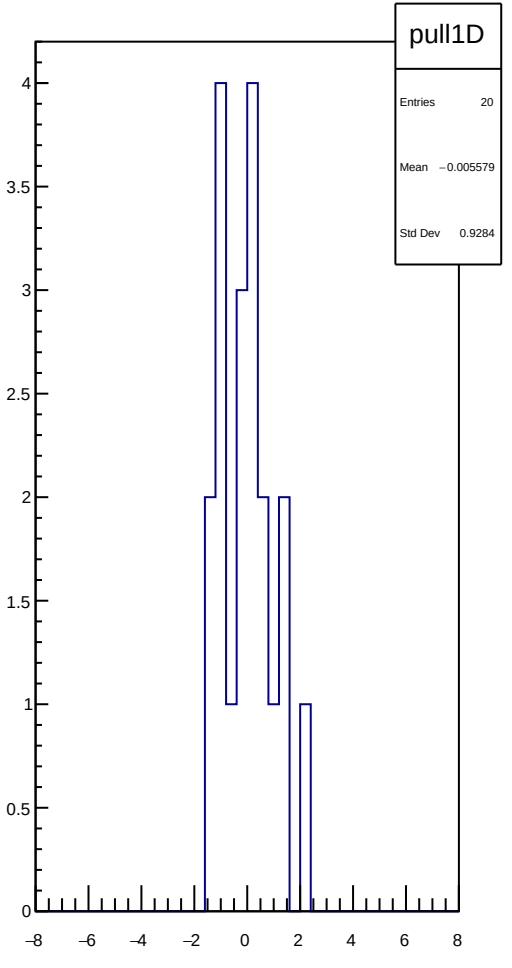

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 12.63 / 19
p0 0.03369 ± 0.06848
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02105
Std Dev 0.7944
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

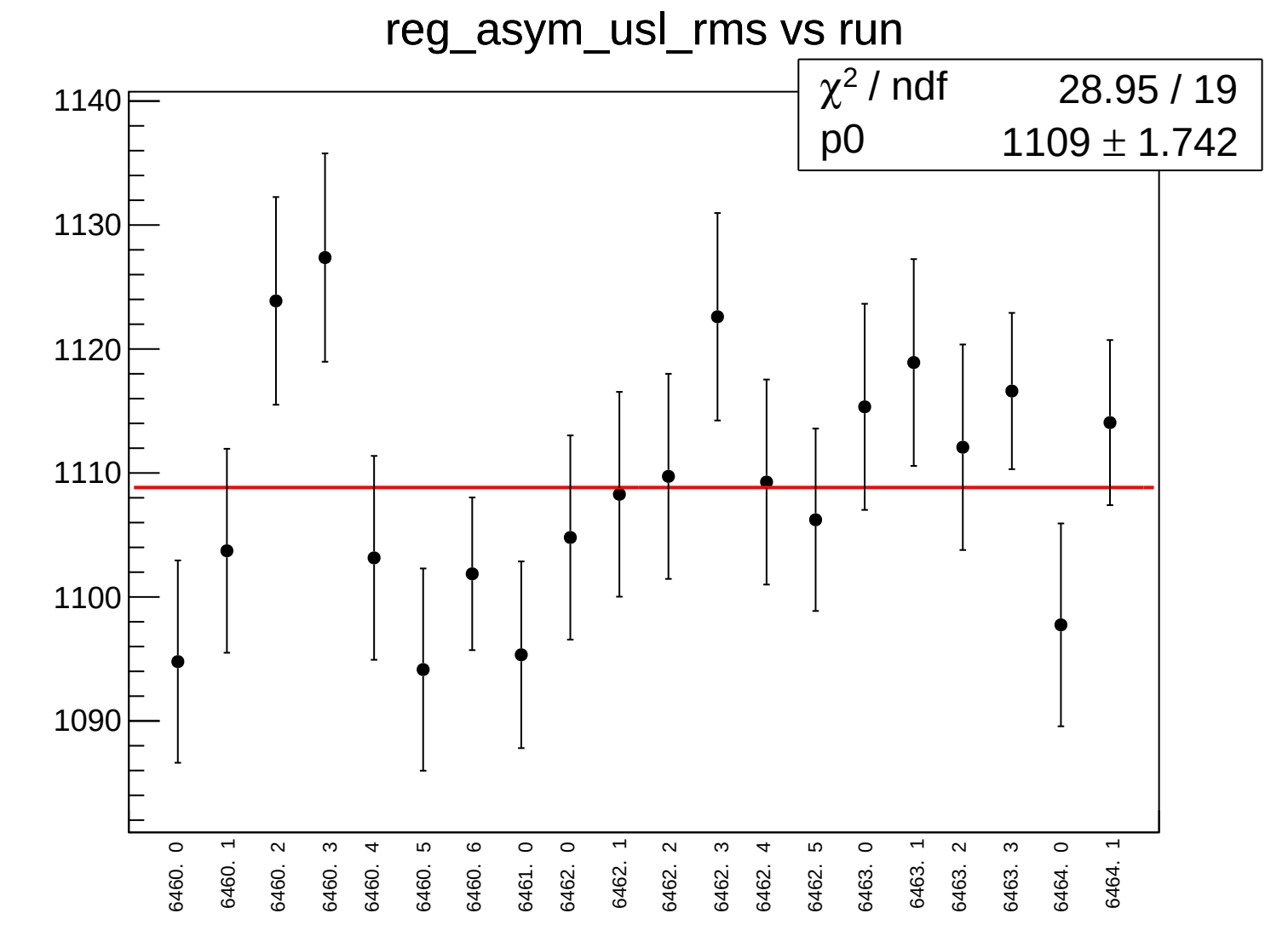

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.564e+04 / 19
p0 29.83 ± 0.04843
50
45
40
35
30
25
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.63 / 19
p0 0.03369 ± 0.06848
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02105
Std Dev 0.7944
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 2.564e+04 / 19
p0 29.83 ± 0.04843
50
45
40
35
30
25
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


reg_asym_usl_mean vs run
χ² / ndf 17.24 / 19
p0 −1623 ± 2464
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 348.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean −0.005579
Std Dev 0.9284
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 28.95 / 19
p0 1109 ± 1.742
1140
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 4
6462. 5
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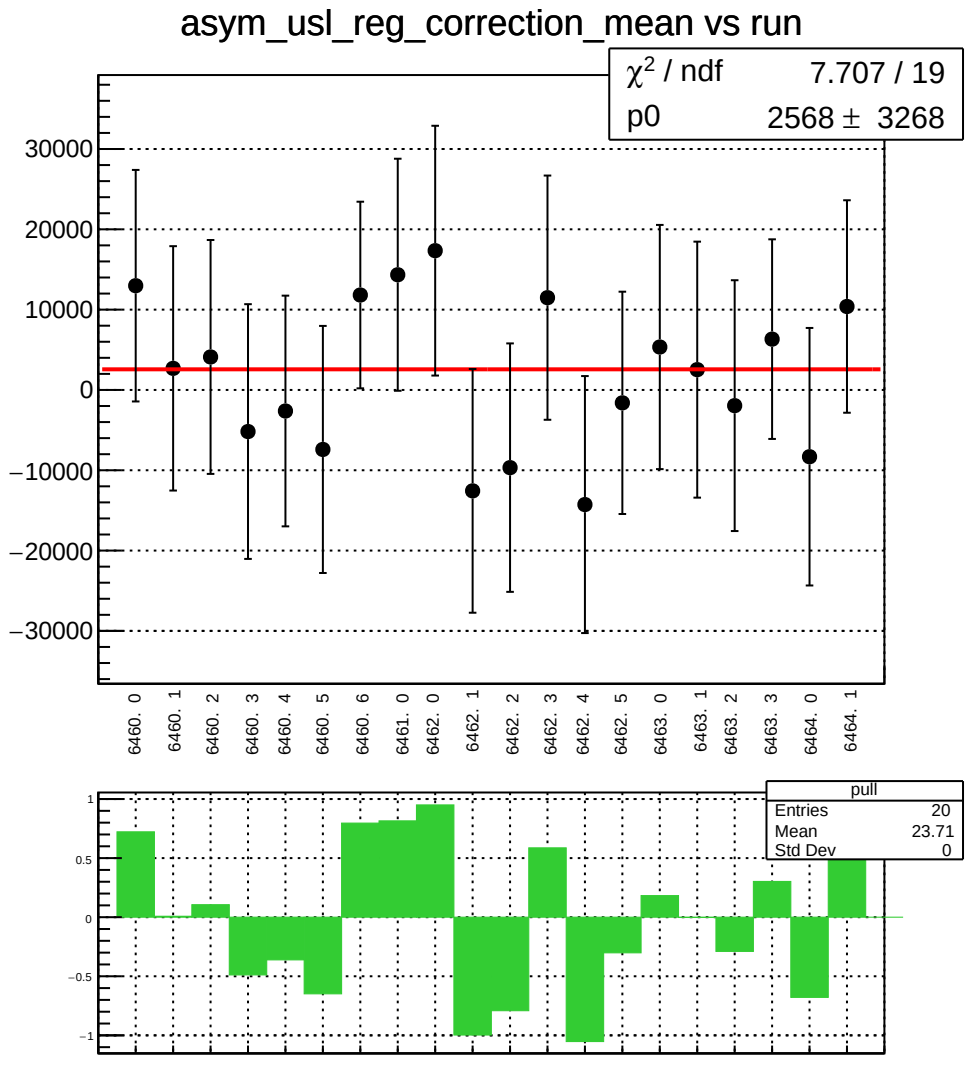
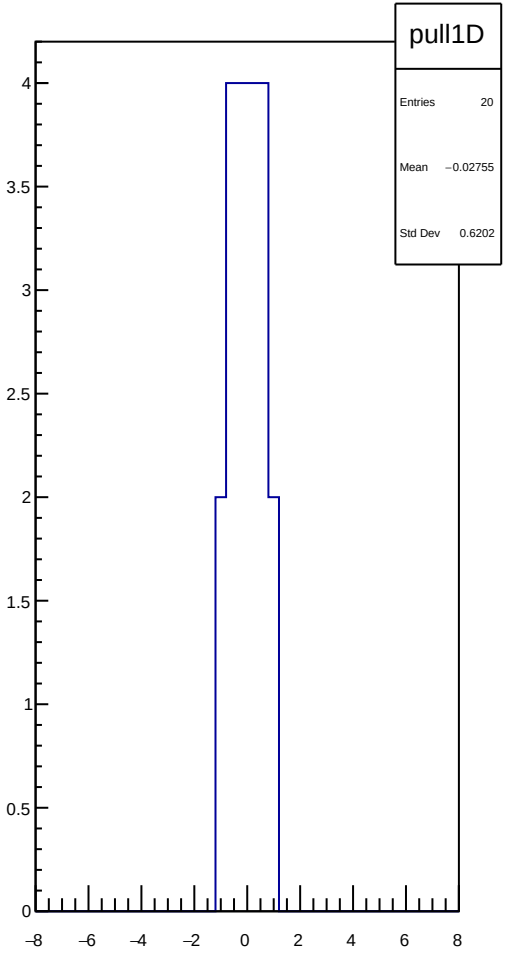
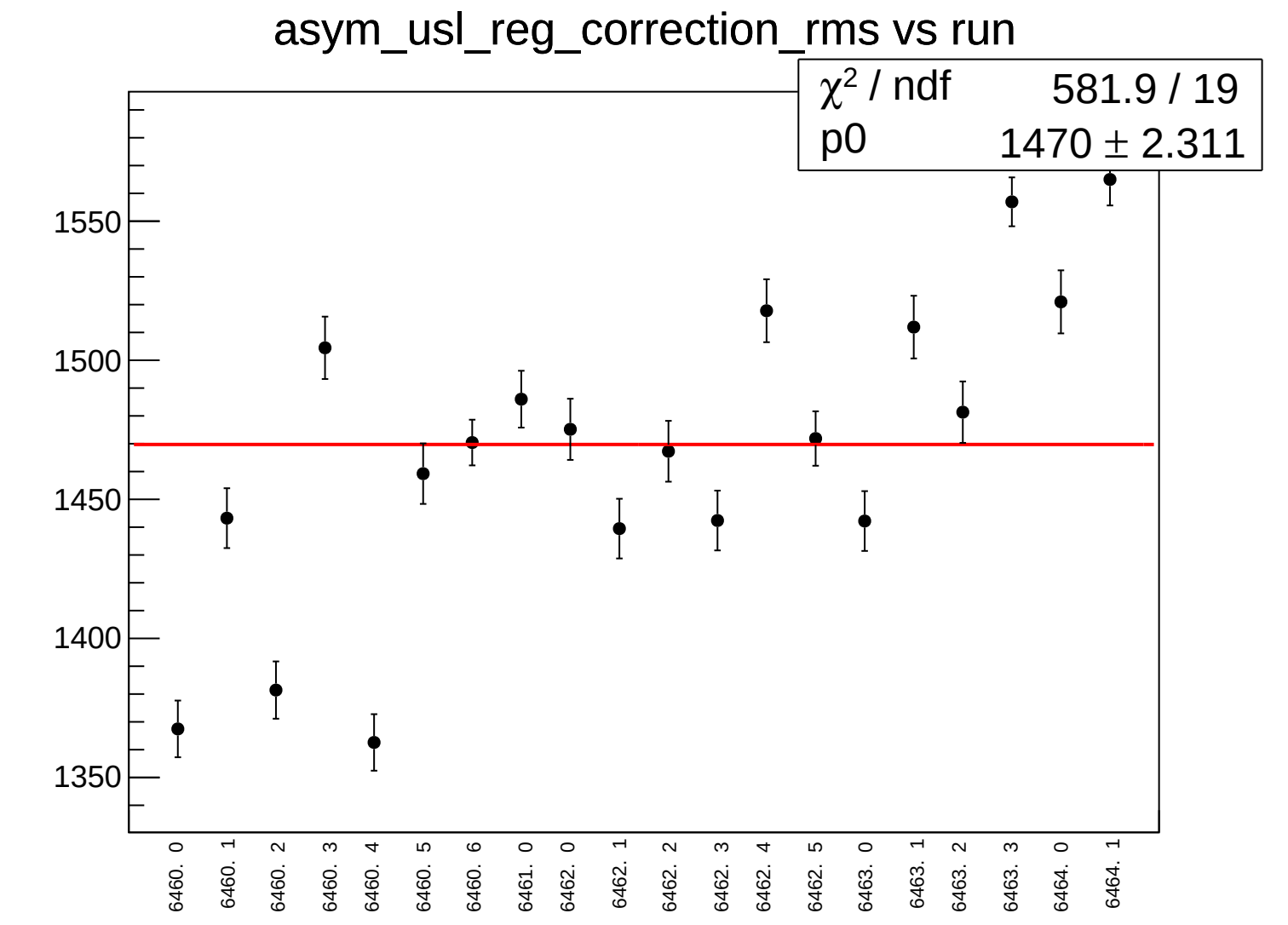
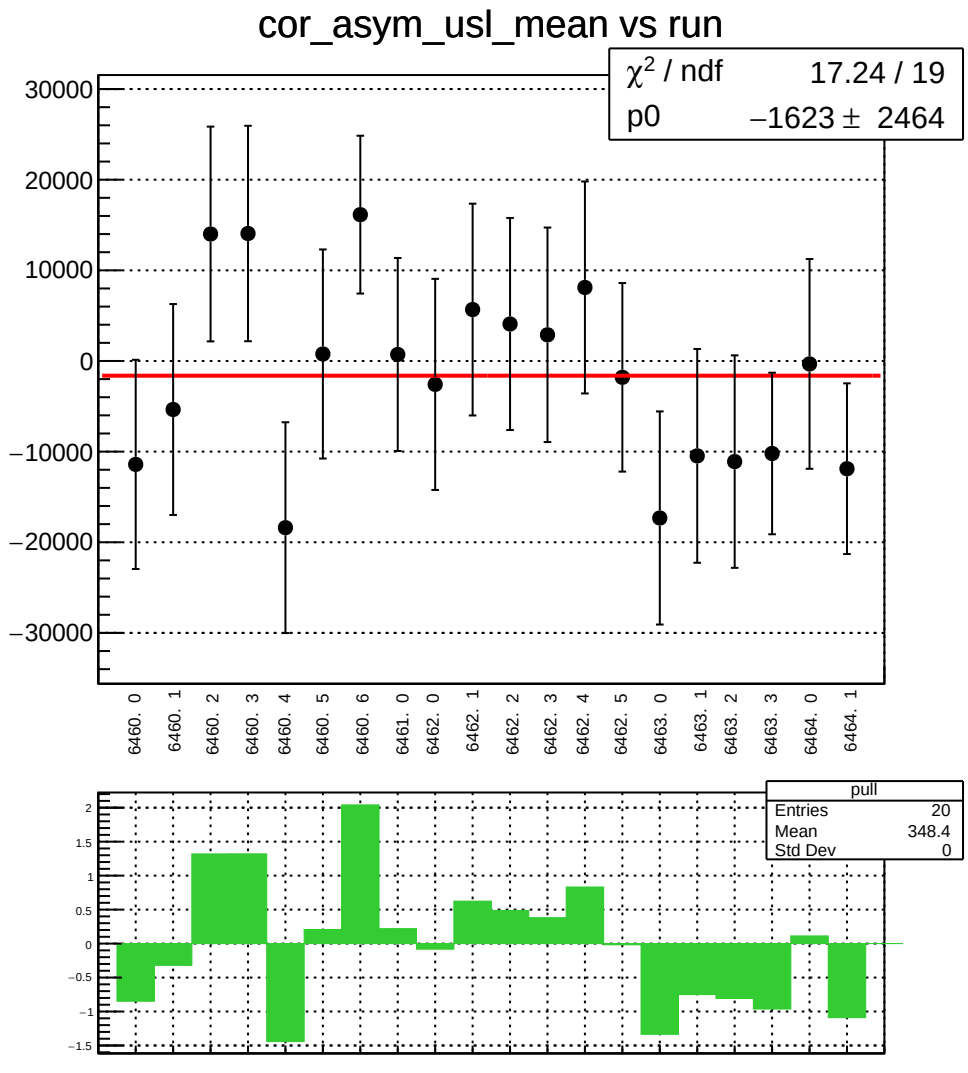
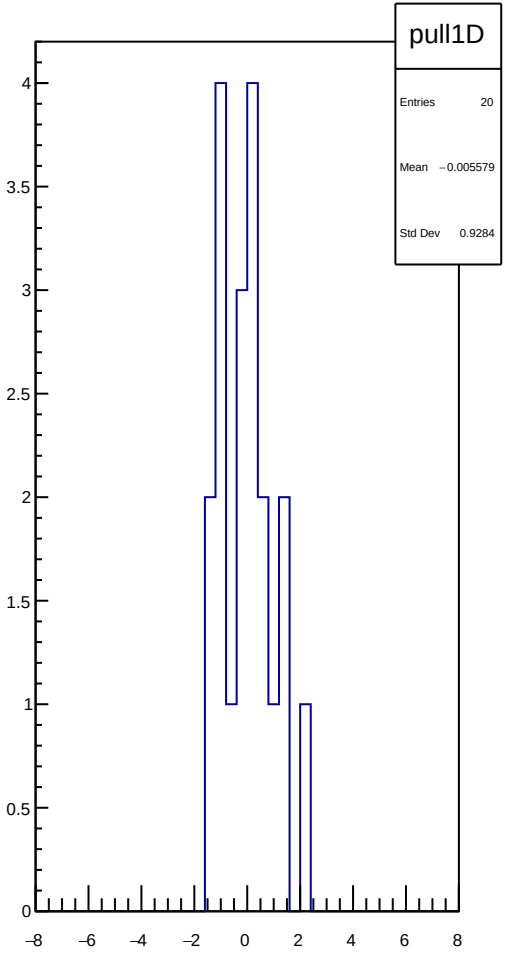
6463. 2
6463. 3
6464. 0
6464. 1

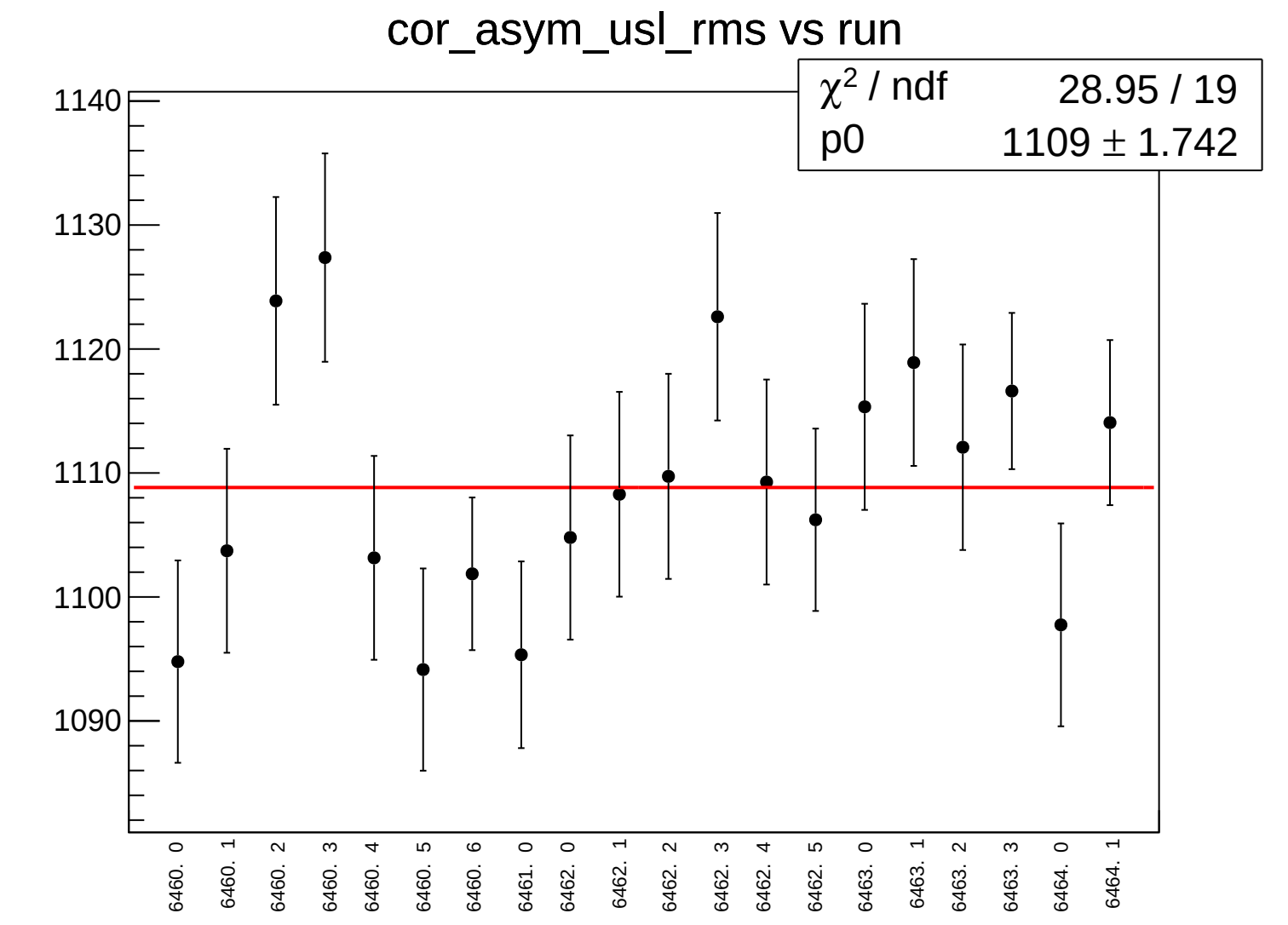

asym_usl_reg_correction_mean vs run
χ² / ndf 7.707 / 19
p0 2568 ± 3268
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.71
Std Dev 0
1
0.5
0
−0.5
−1

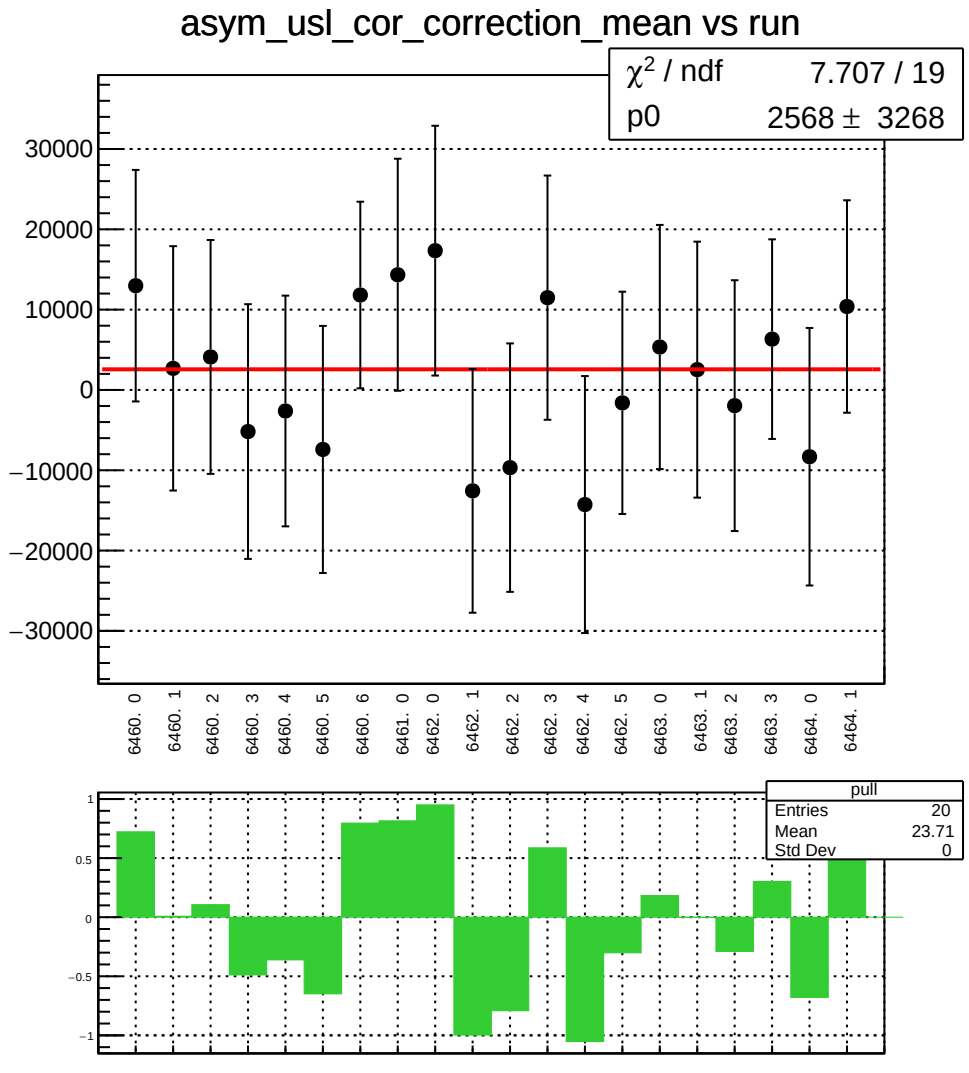

pull1D
Entries 20
Mean −0.02755
Std Dev 0.6202
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

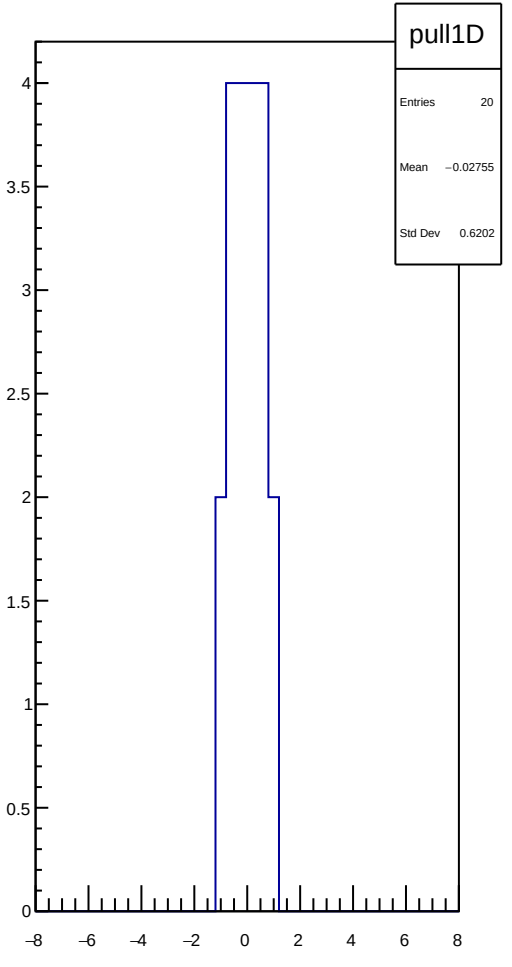

asym_usl_reg_correction_rms vs run
χ² / ndf 581.9 / 19
p0 1470 ± 2.311
1550
1500
1450
1400
1350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

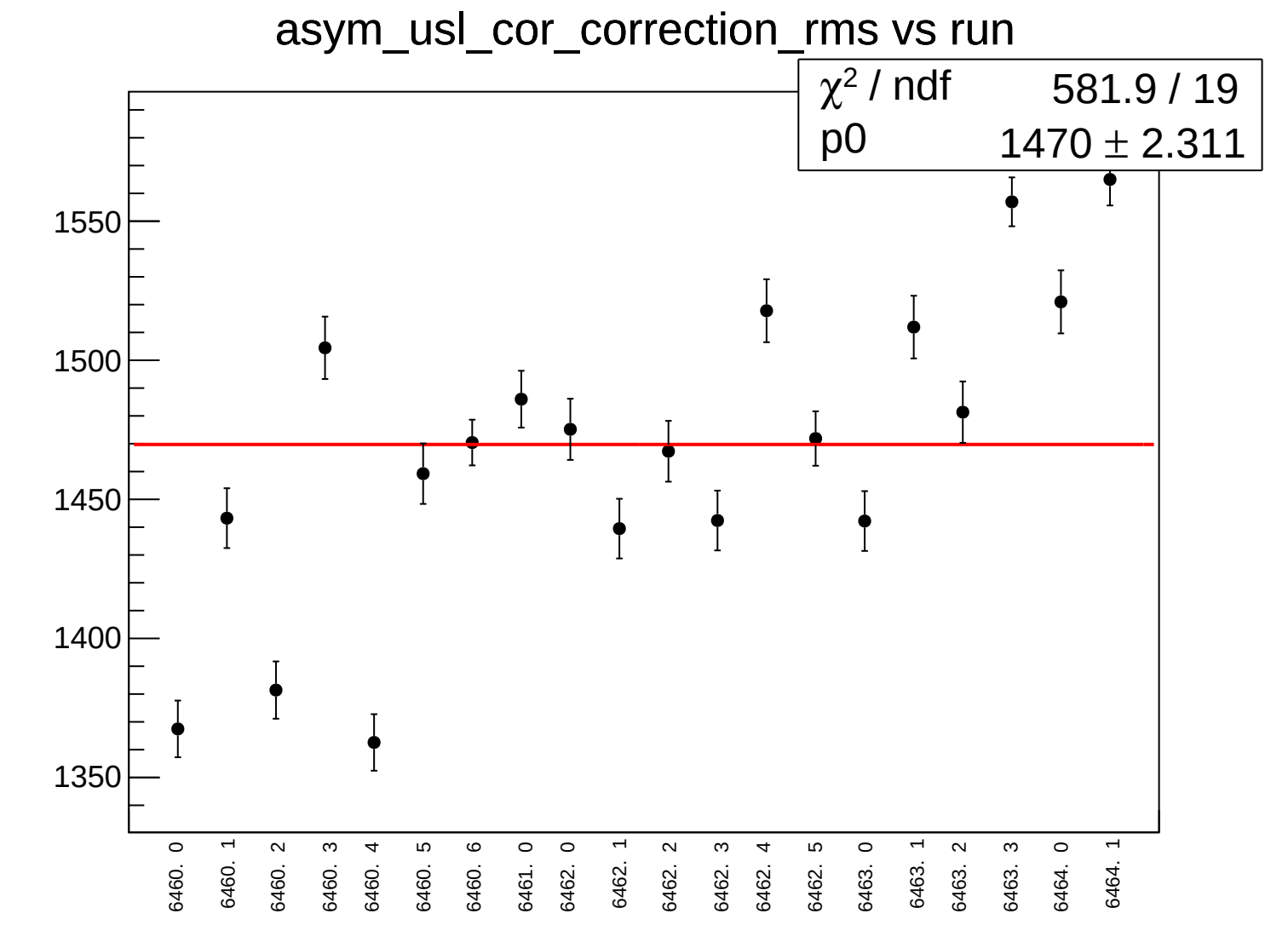

cor_asym_usl_mean vs run
χ² / ndf 17.24 / 19
p0 −1623 ± 2464
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 348.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

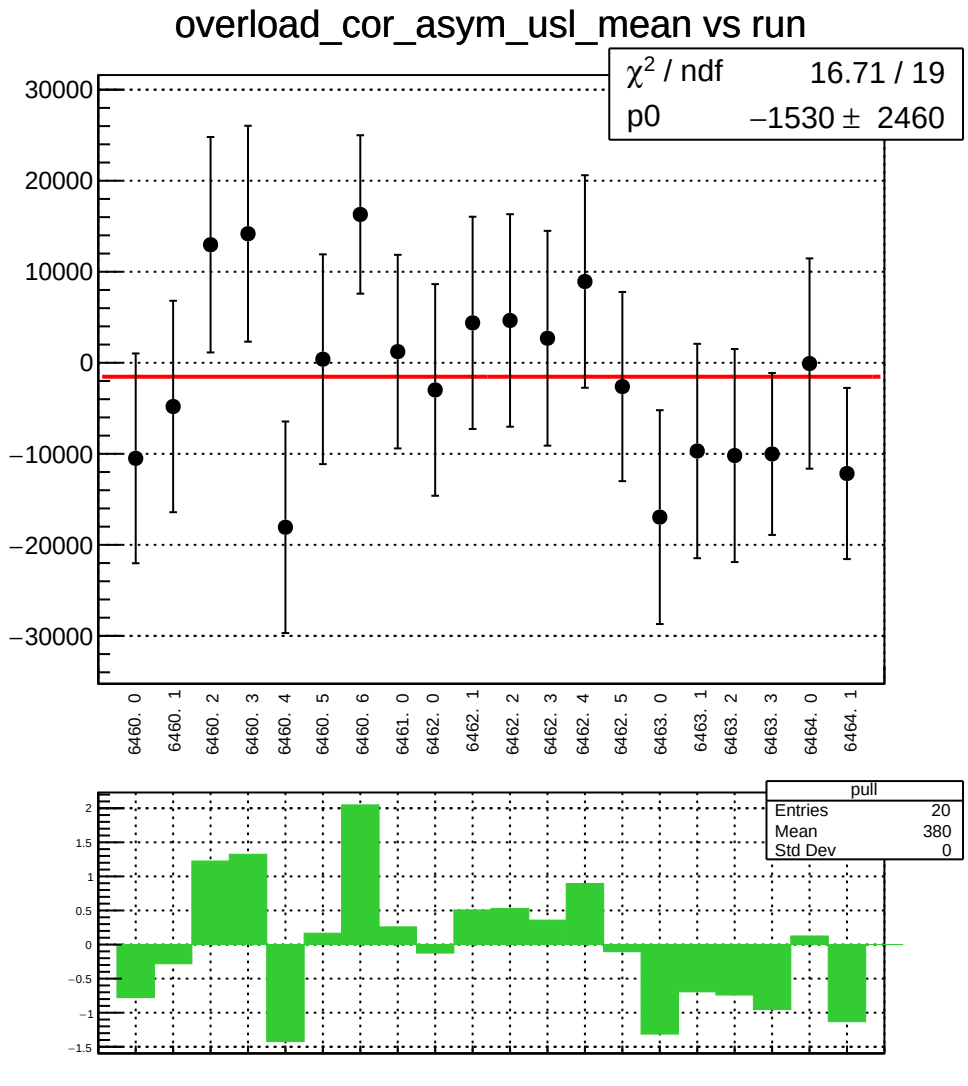

pull1D
Entries 20
Mean −0.005579
Std Dev 0.9284
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

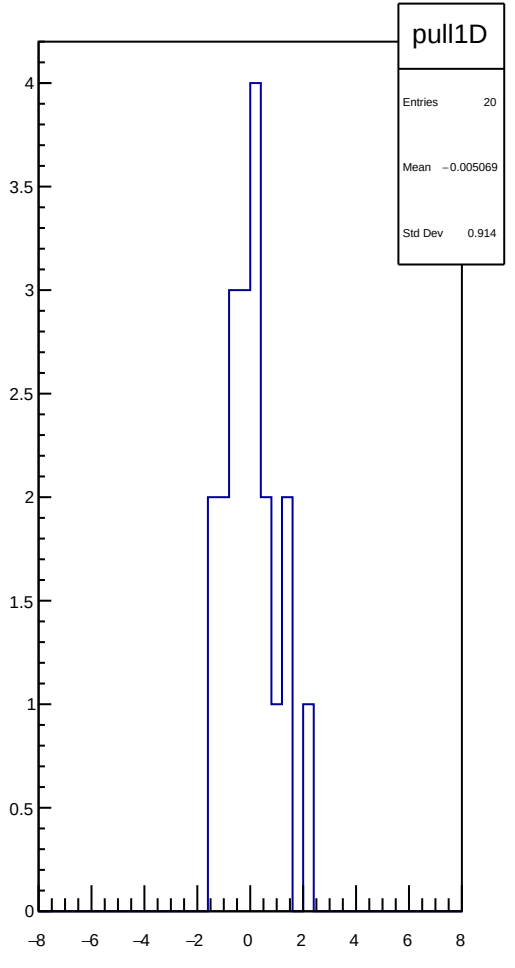

cor_asym_usl_rms vs run
χ² / ndf 28.95 / 19
p0 1109 ± 1.742
1140
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

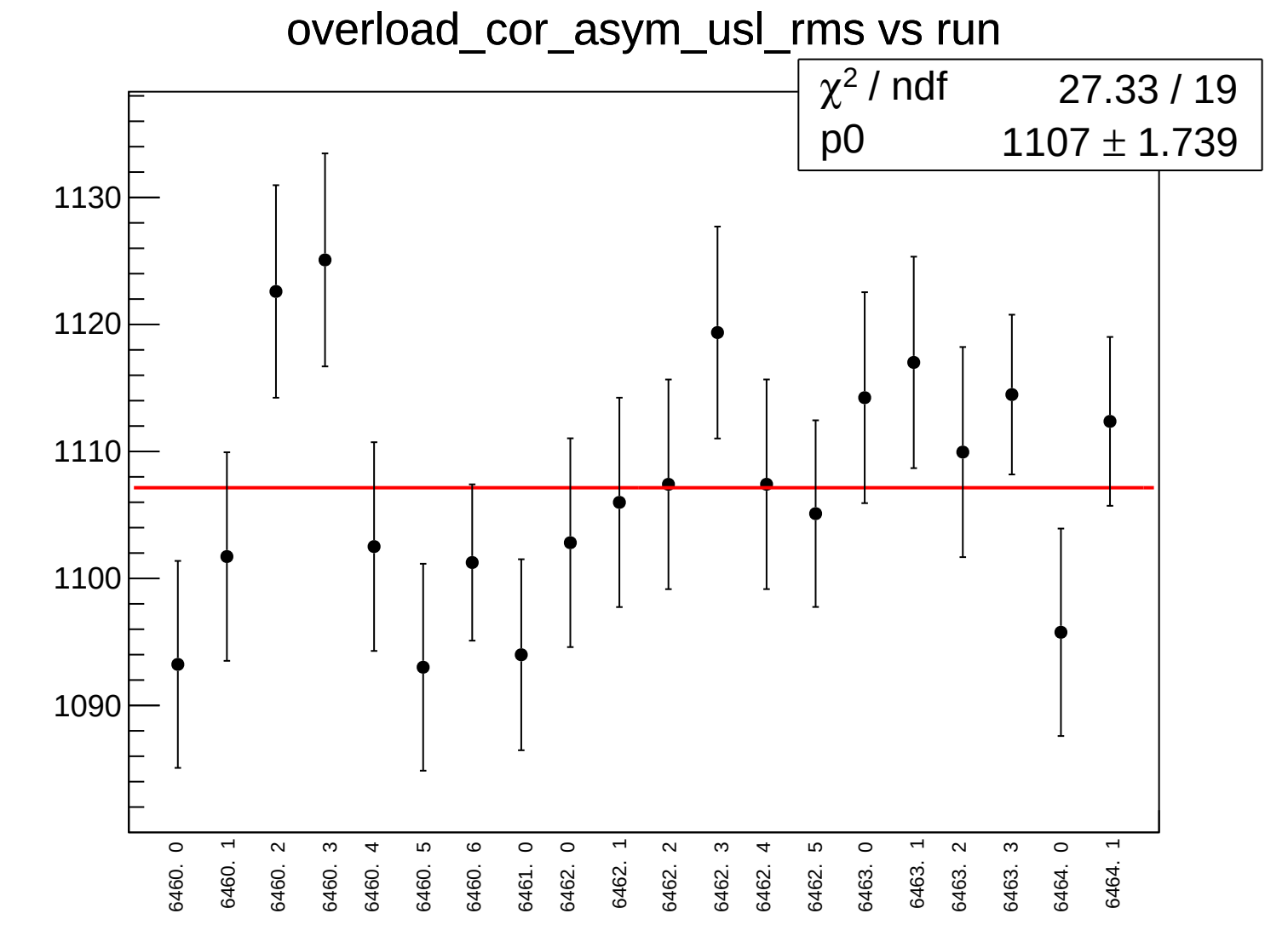

asym_usl_cor_correction_mean vs run
χ² / ndf 7.707 / 19
p0 2568 ± 3268
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.71
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean −0.02755
Std Dev 0.6202
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

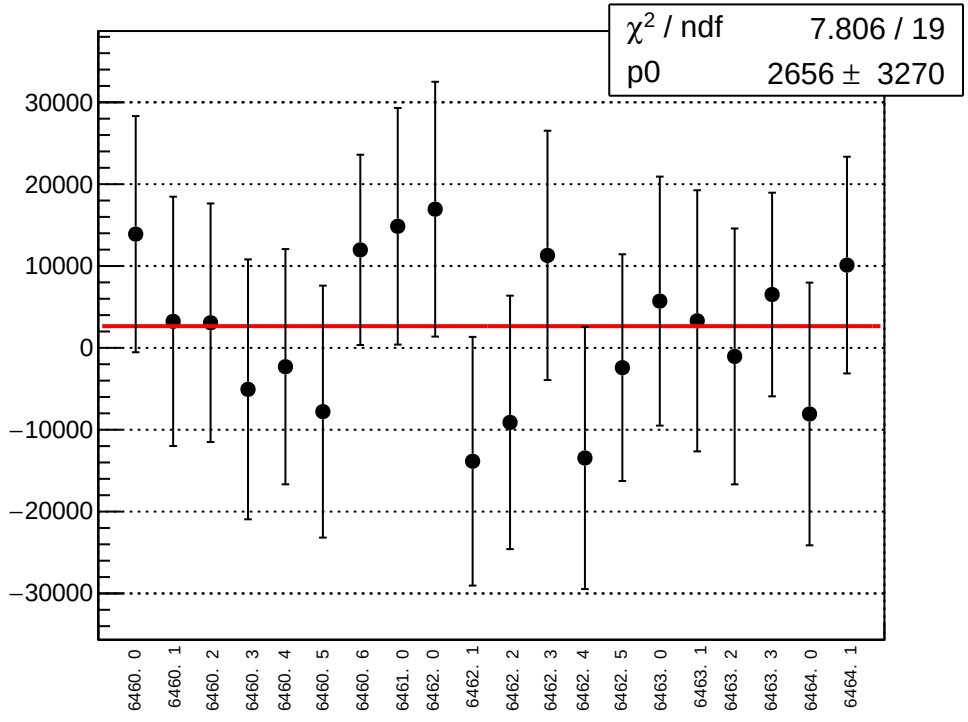

asym_usl_cor_correction_rms vs run
χ² / ndf 581.9 / 19
p0 1470 ± 2.311
1550
1500
1450
1400
1350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

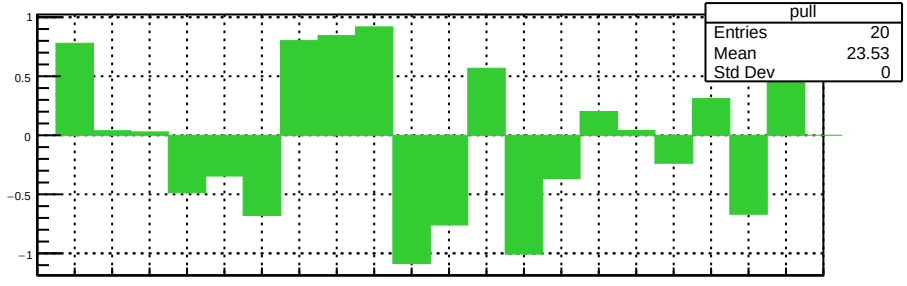

overload_cor_asym_usl_mean vs run
χ² / ndf 16.71 / 19
p0 −1530 ± 2460
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 380
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

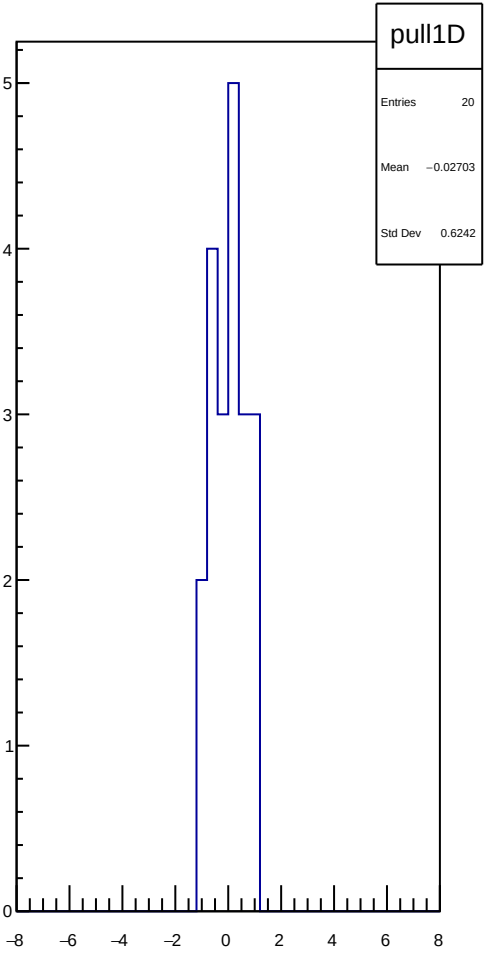

pull1D
Entries 20
Mean −0.005069
Std Dev 0.914
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

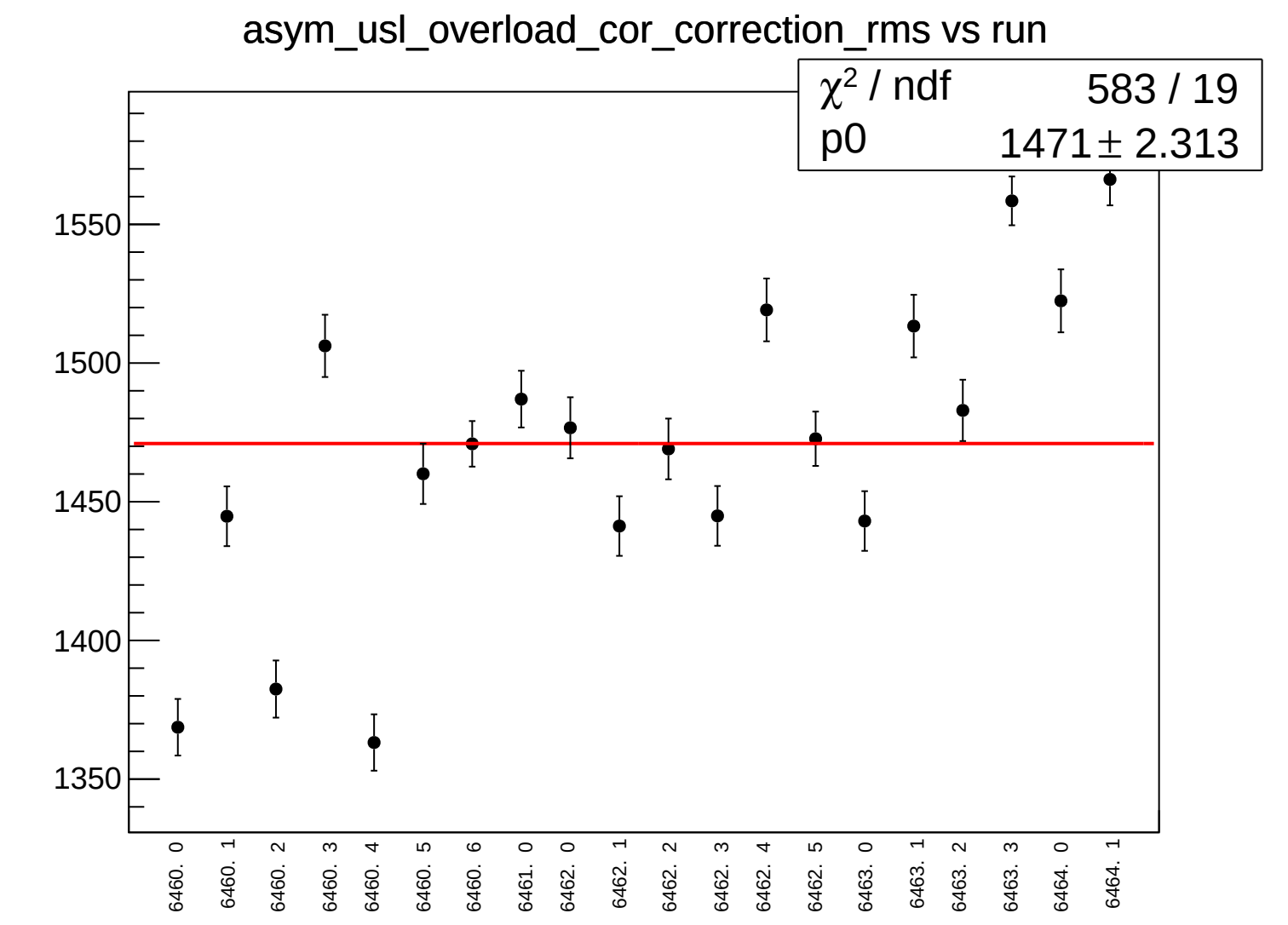

overload_cor_asym_usl_rms vs run
χ^2 / ndf 27.33 / 19
p0 1107 ± 1.739
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

asym_usl_overload_cor_correction_mean vs run








asym_usl_overload_cor_correction_rms vs run
χ² / ndf 583 / 19
p0 1471 ± 2.313
1550
1500
1450
1400
1350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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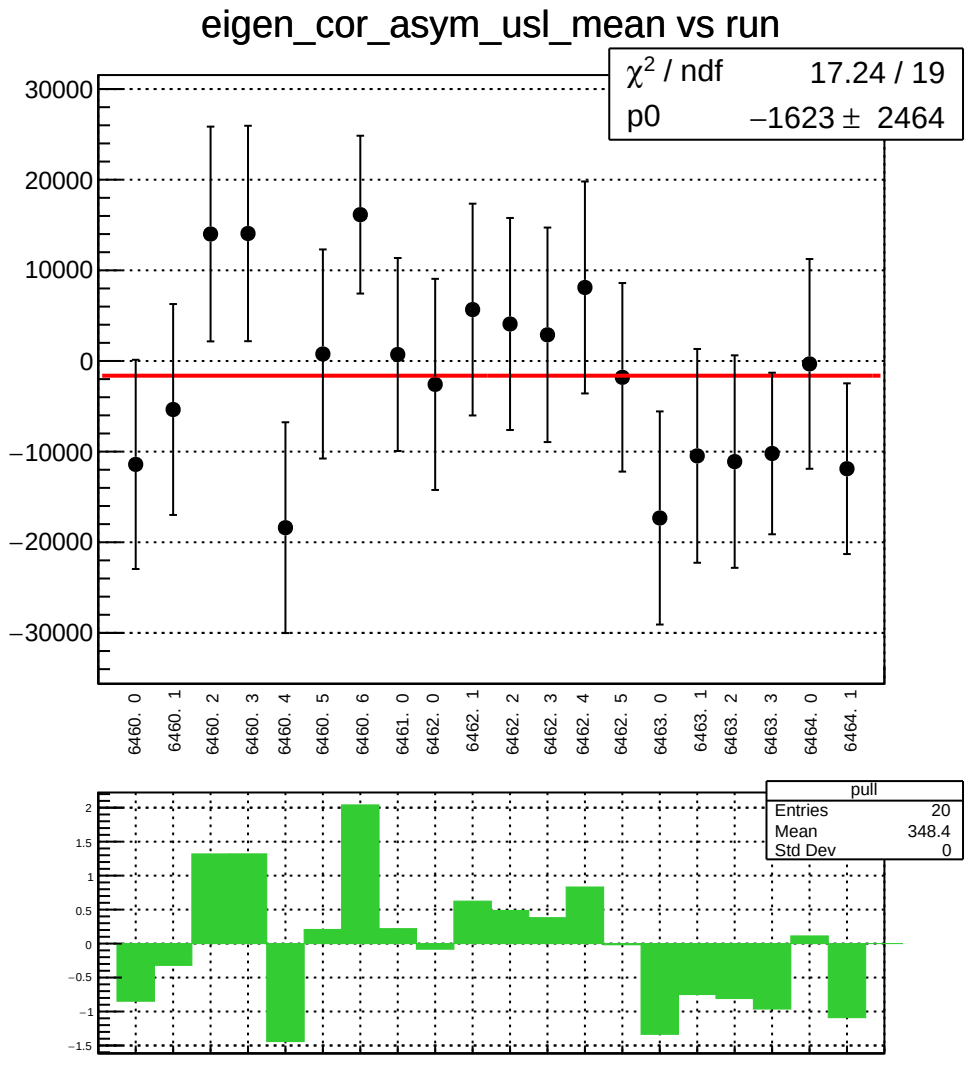
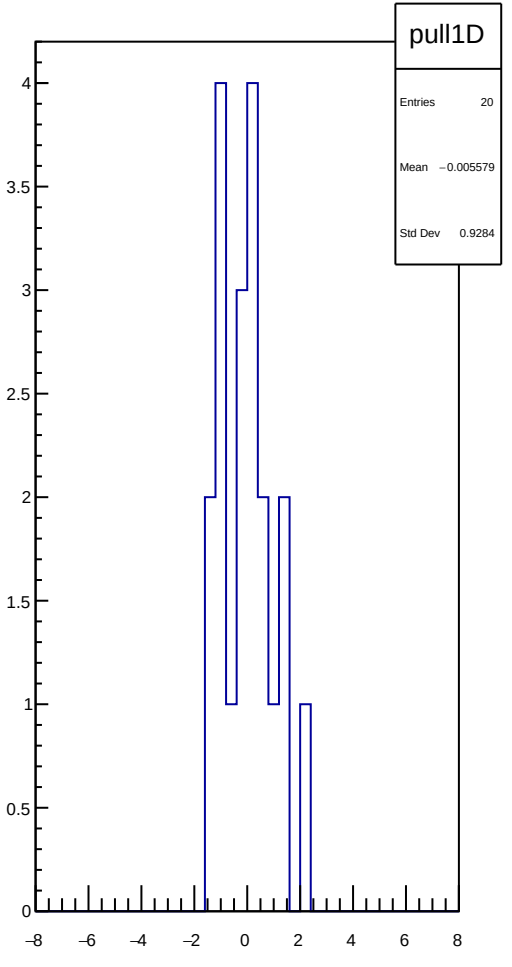
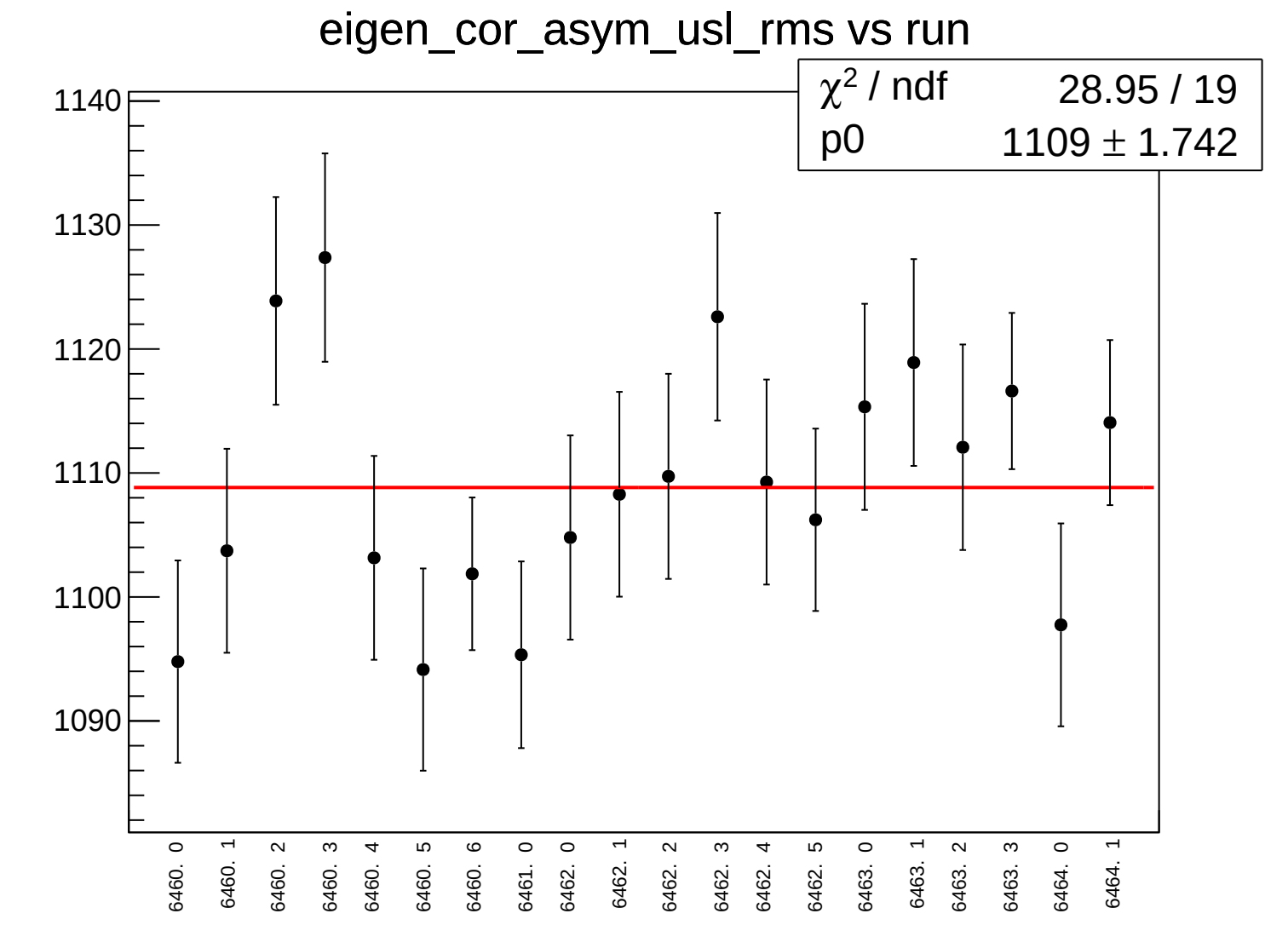
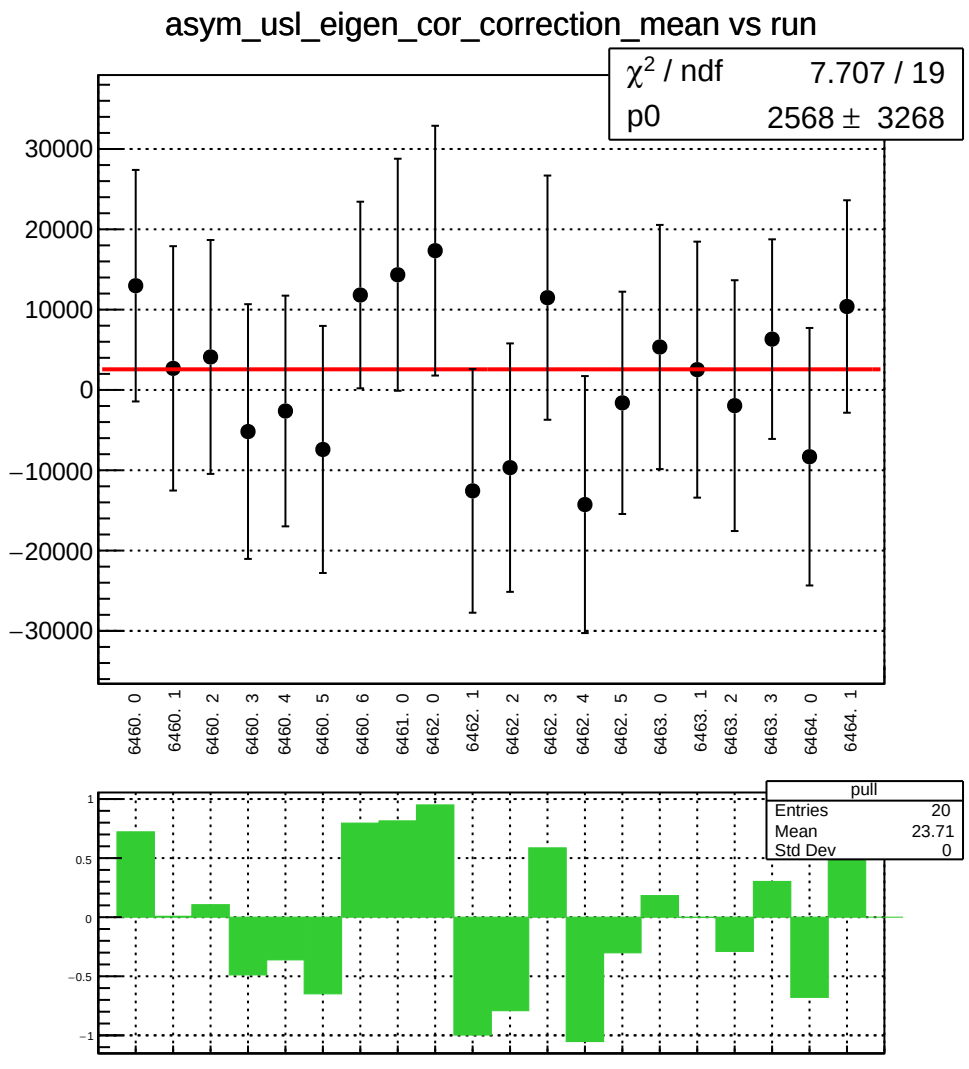
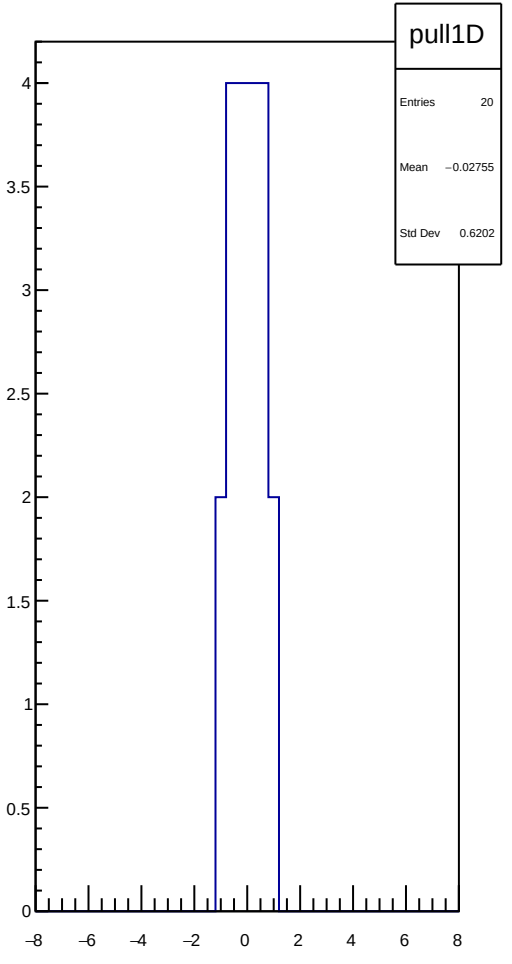
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

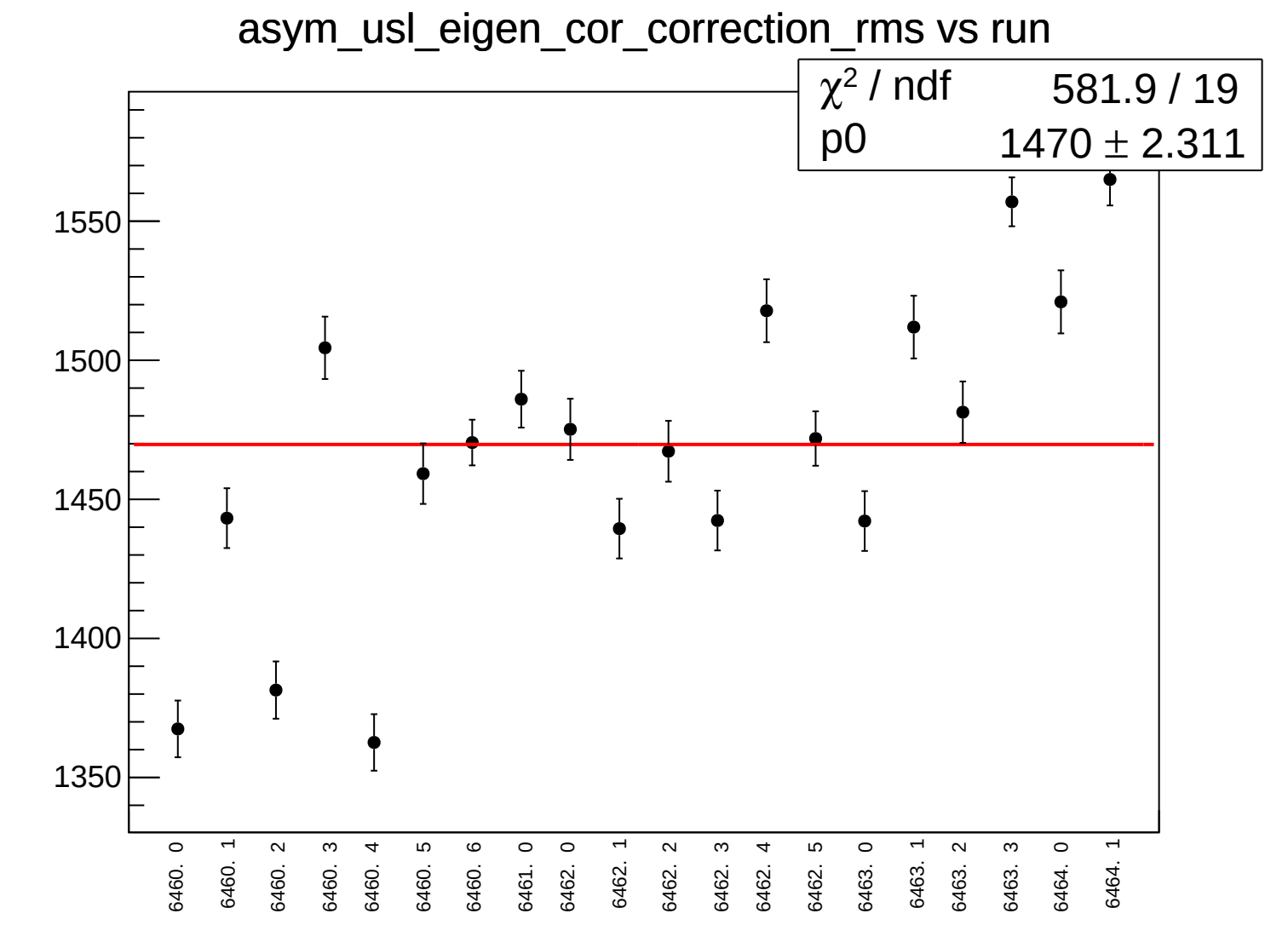

eigen_cor_asym_usl_mean vs run
χ² / ndf 17.24 / 19
p0 −1623 ± 2464
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 348.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

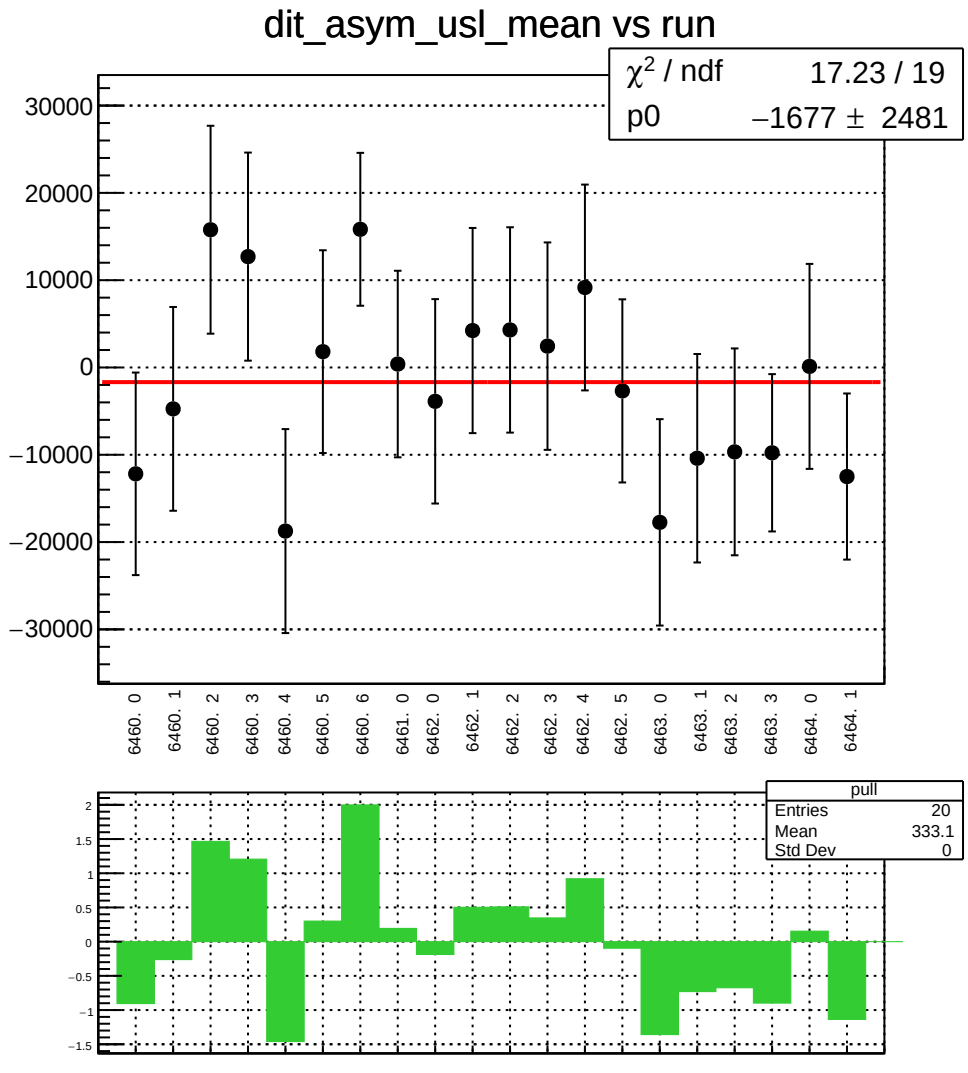

pull1D
Entries 20
Mean −0.005579
Std Dev 0.9284
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_rms vs run
χ² / ndf 28.95 / 19
p0 1109 ± 1.742
1140
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 7.707 / 19
p0 2568 ± 3268
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.71
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean −0.02755
Std Dev 0.6202
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 581.9 / 19
p0 1470 ± 2.311
1550
1500
1450
1400
1350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


dit_asym_usl_mean vs run
χ² / ndf 17.23 / 19
p0 −1677 ± 2481
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 333.1
Std Dev 0
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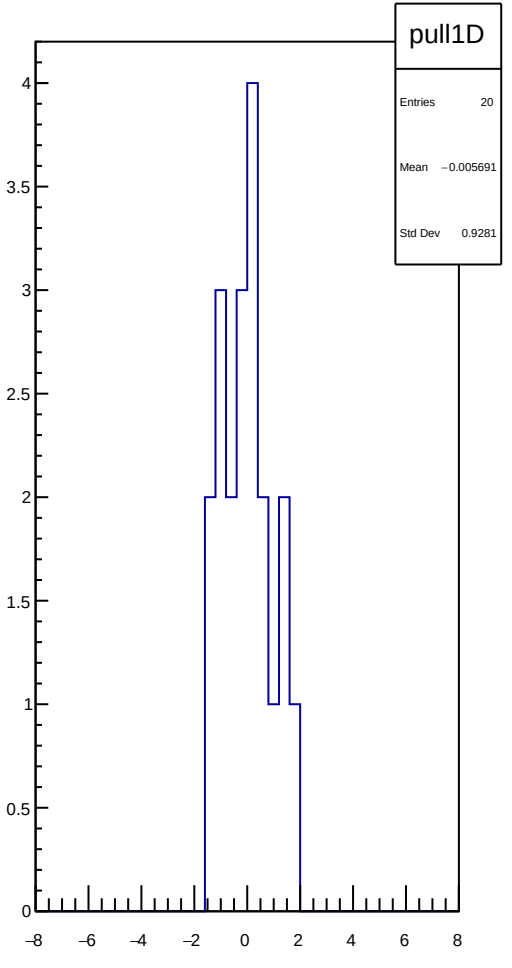
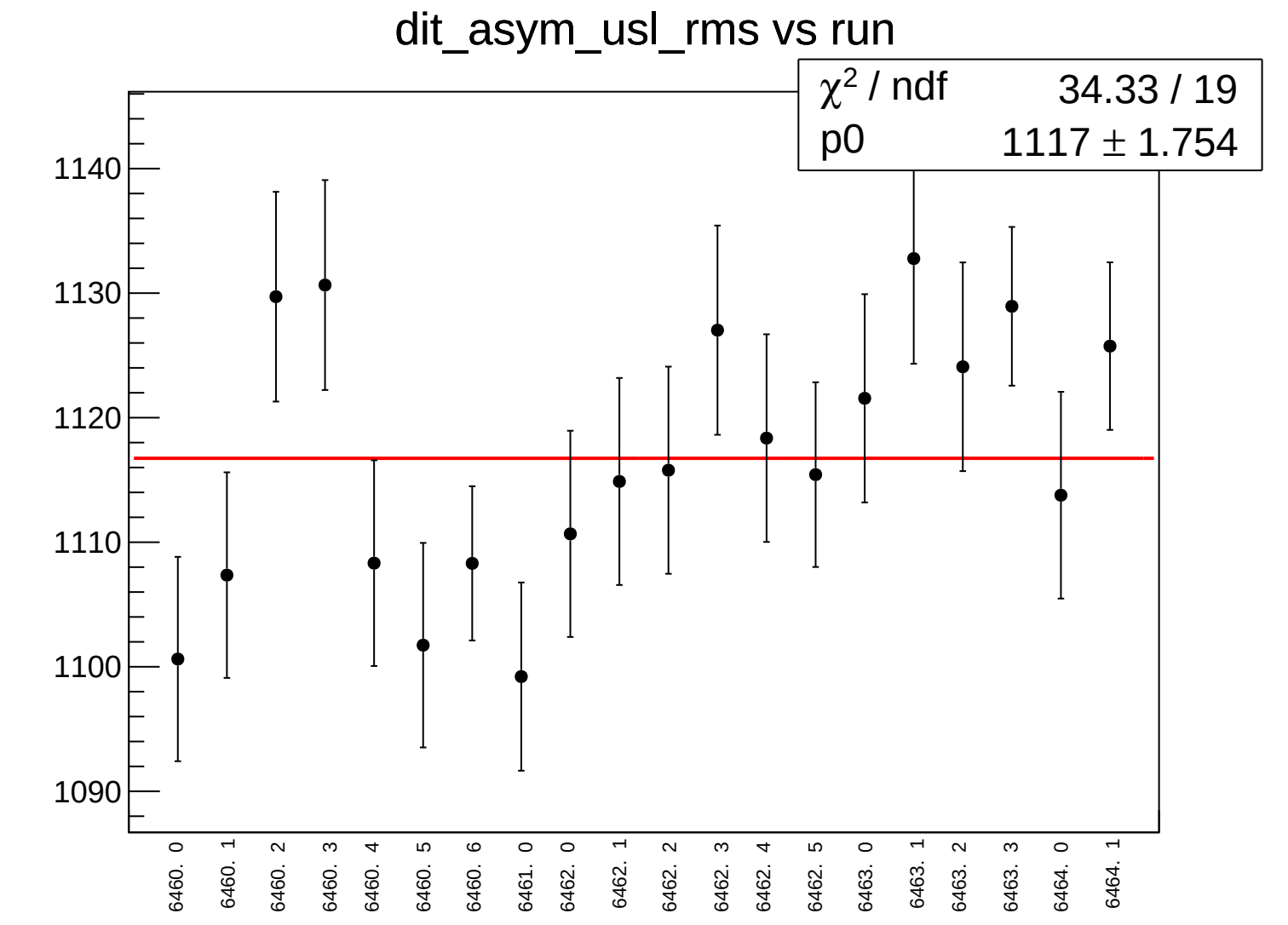
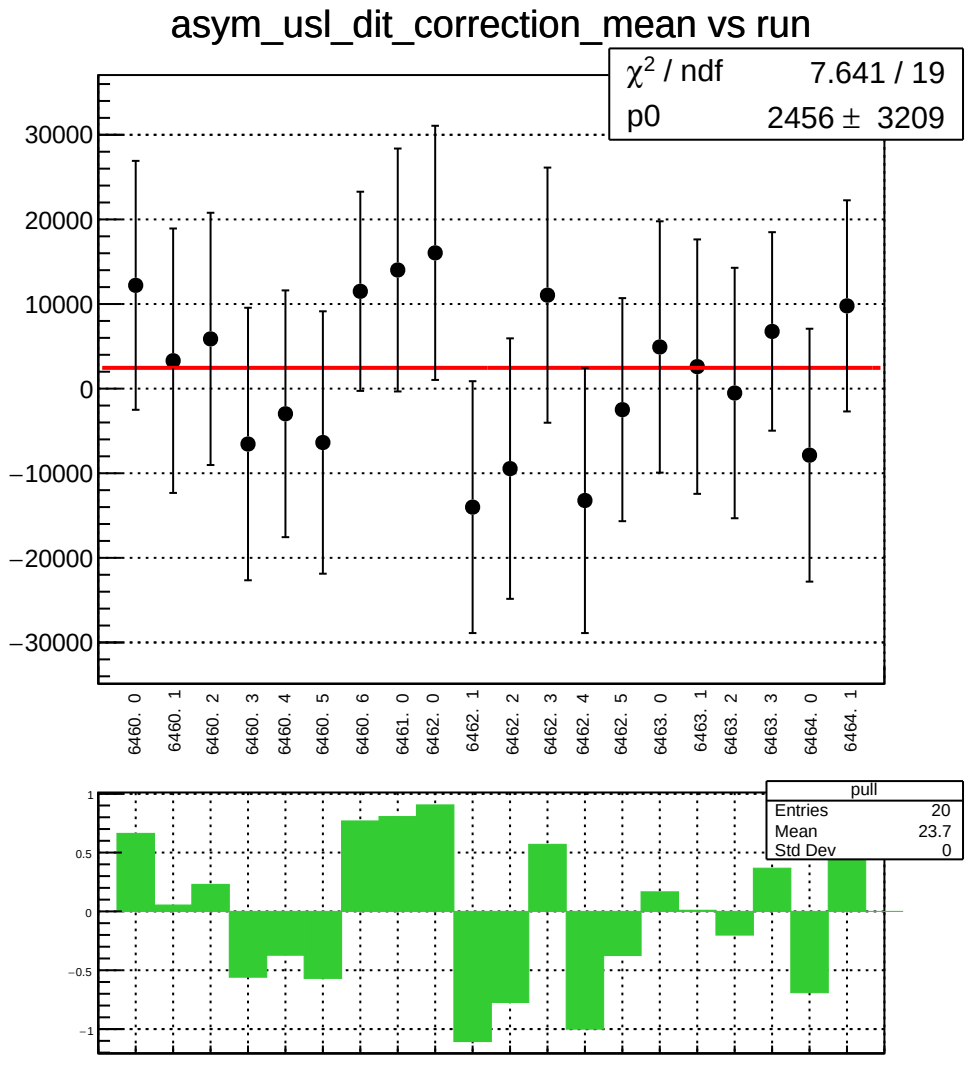
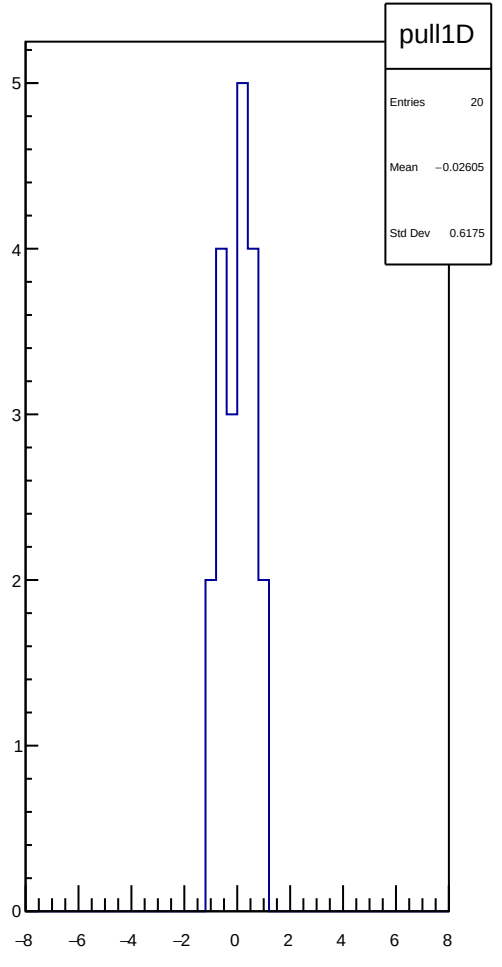
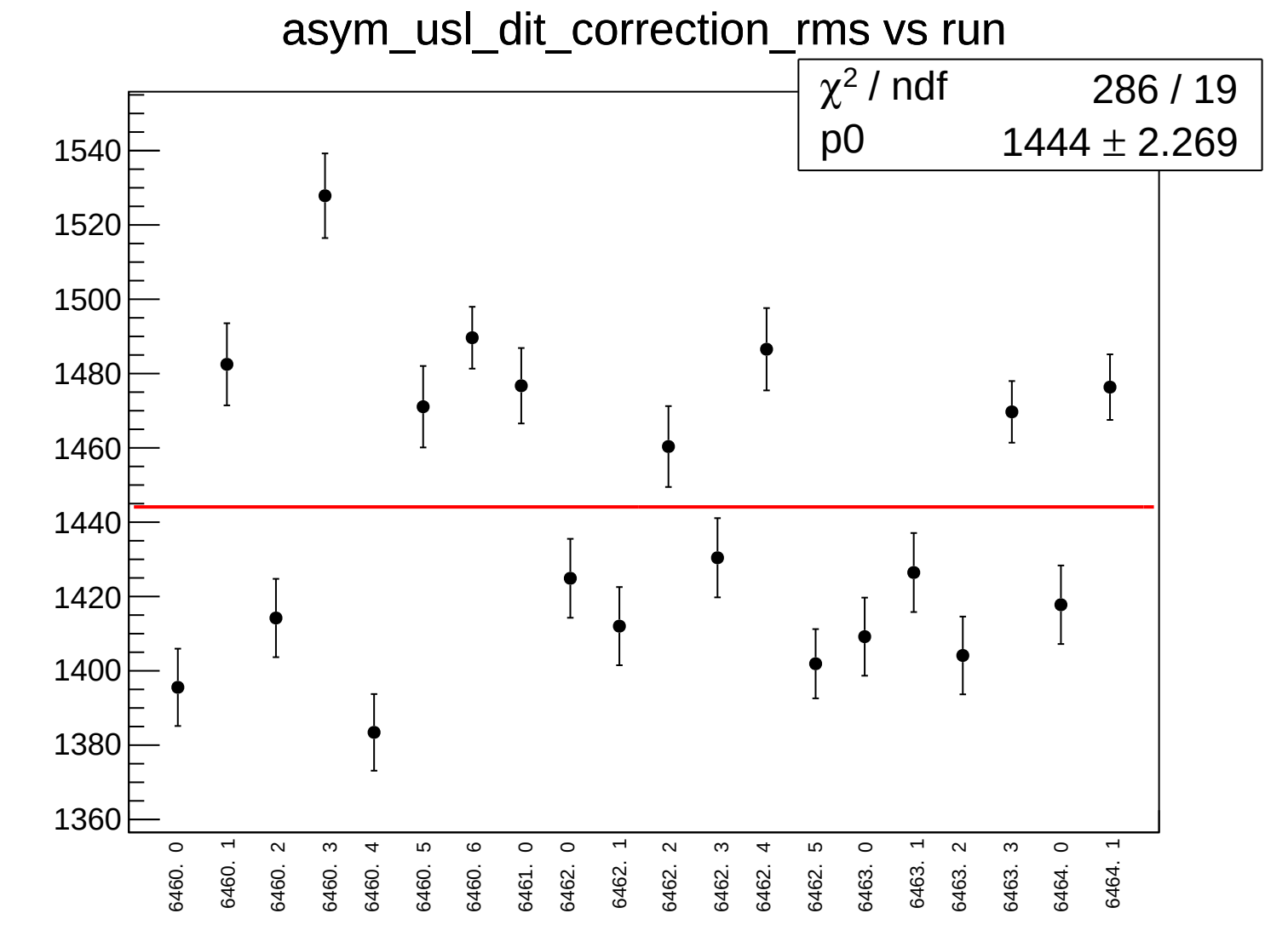
1.5
1
0.5
0
−0.5
−1
−1.5

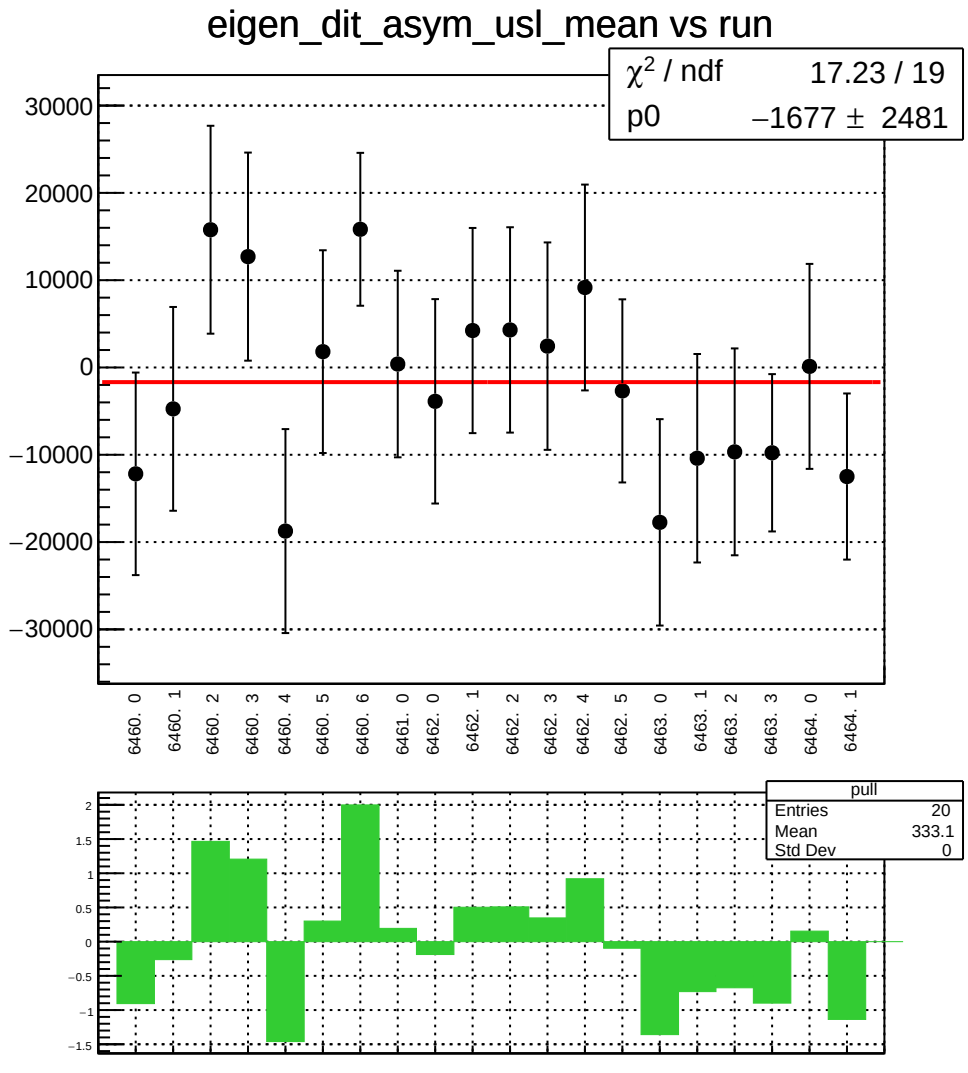

pull1D
Entries 20
Mean −0.005691
Std Dev 0.9281
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

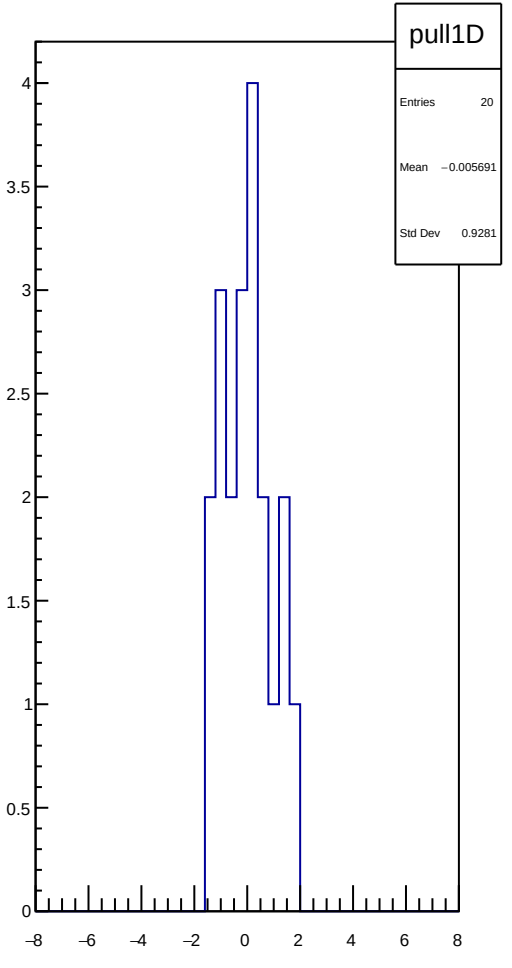

dit_asym_usl_rms vs run
χ² / ndf 34.33 / 19
p0 1117 ± 1.754
1140
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

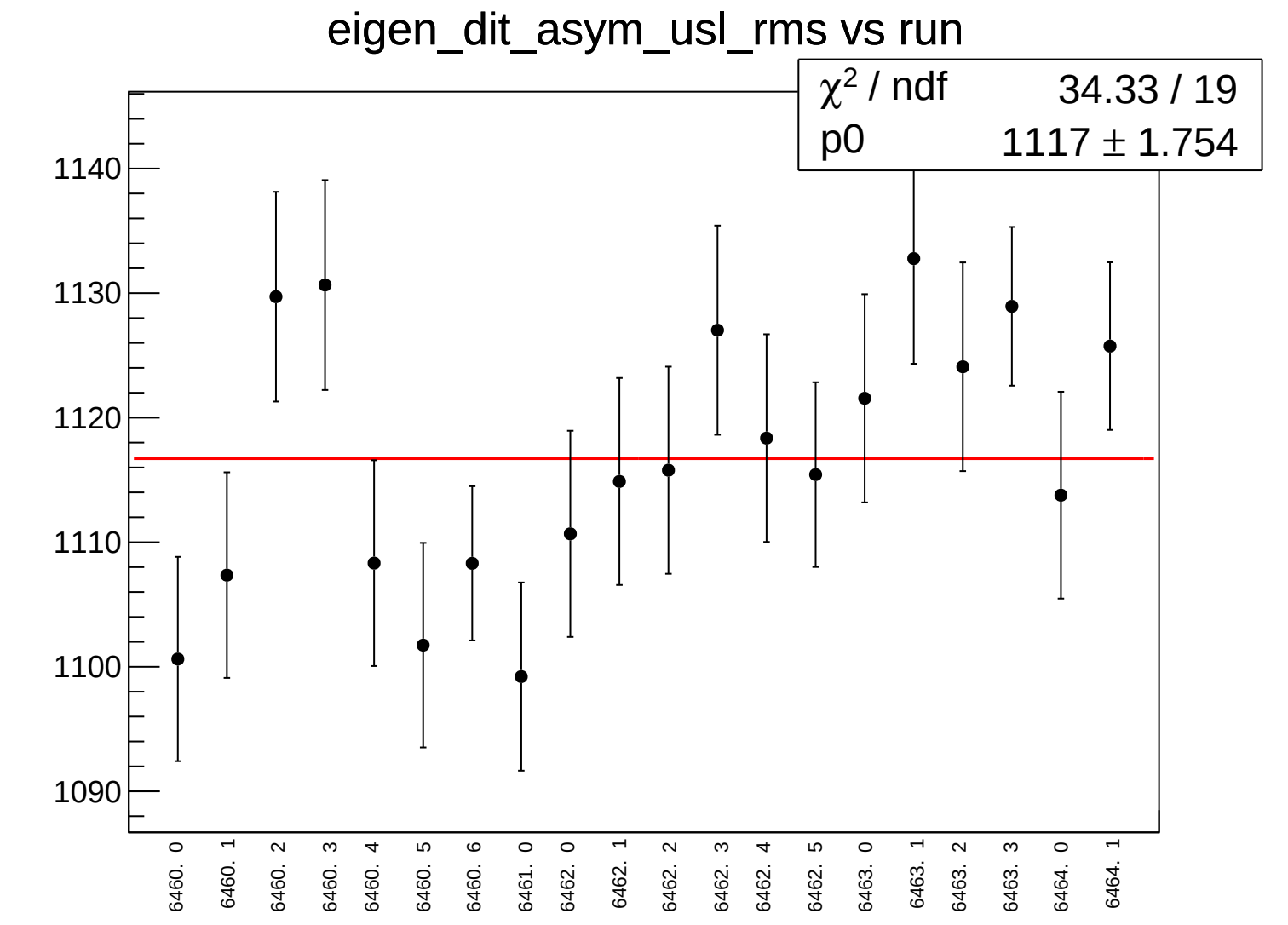

asym_usl_dit_correction_mean vs run
χ² / ndf 7.641 / 19
p0 2456 ± 3209
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.7
Std Dev 0
1
0.5
0
−0.5
−1

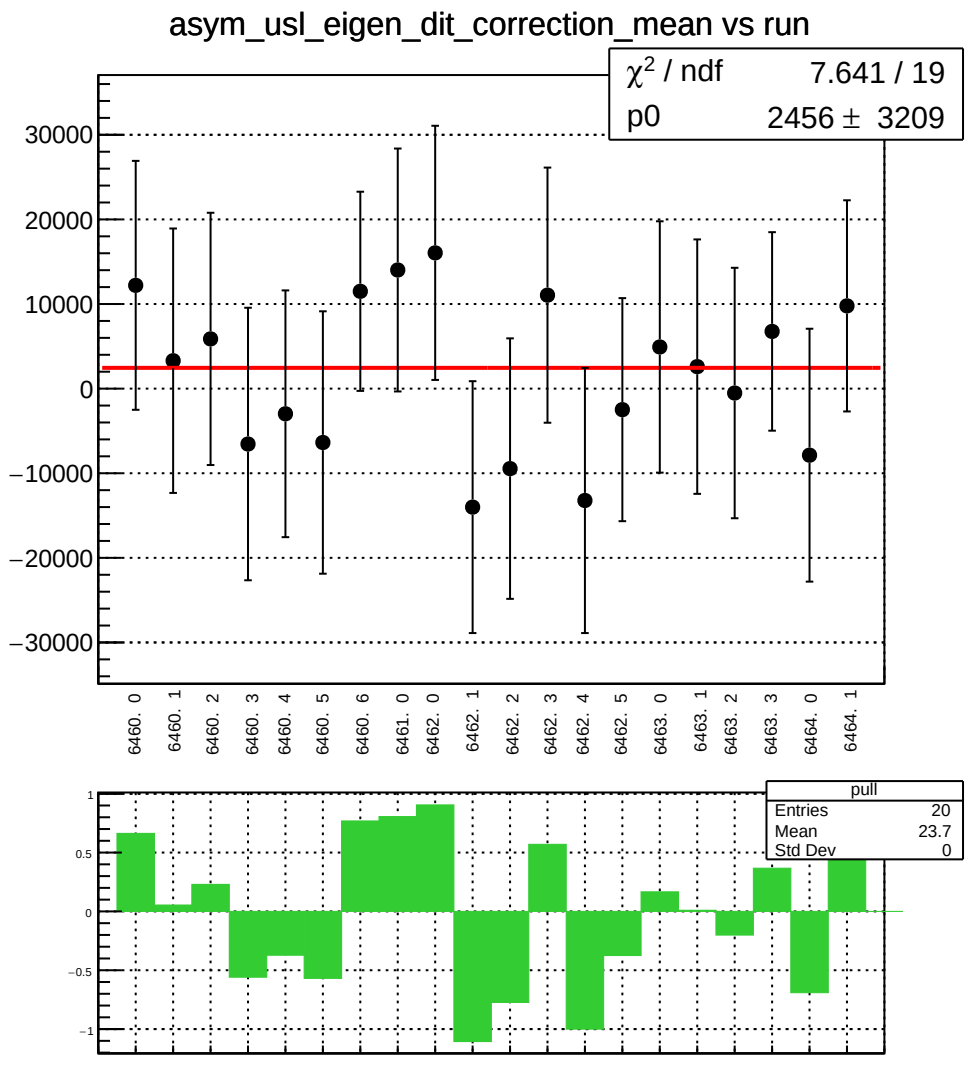

pull1D
Entries 20
Mean −0.02605
Std Dev 0.6175
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

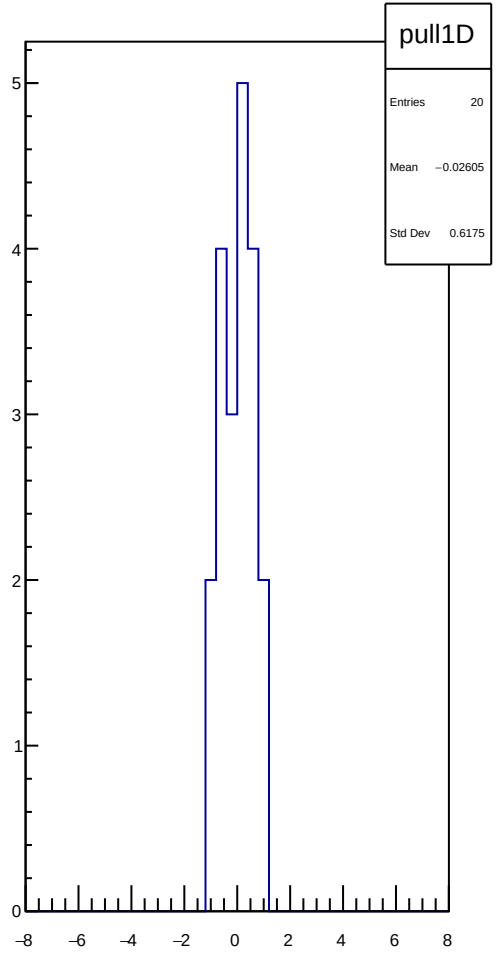

asym_usl_dit_correction_rms vs run
χ² / ndf 286 / 19
p0 1444 ± 2.269
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

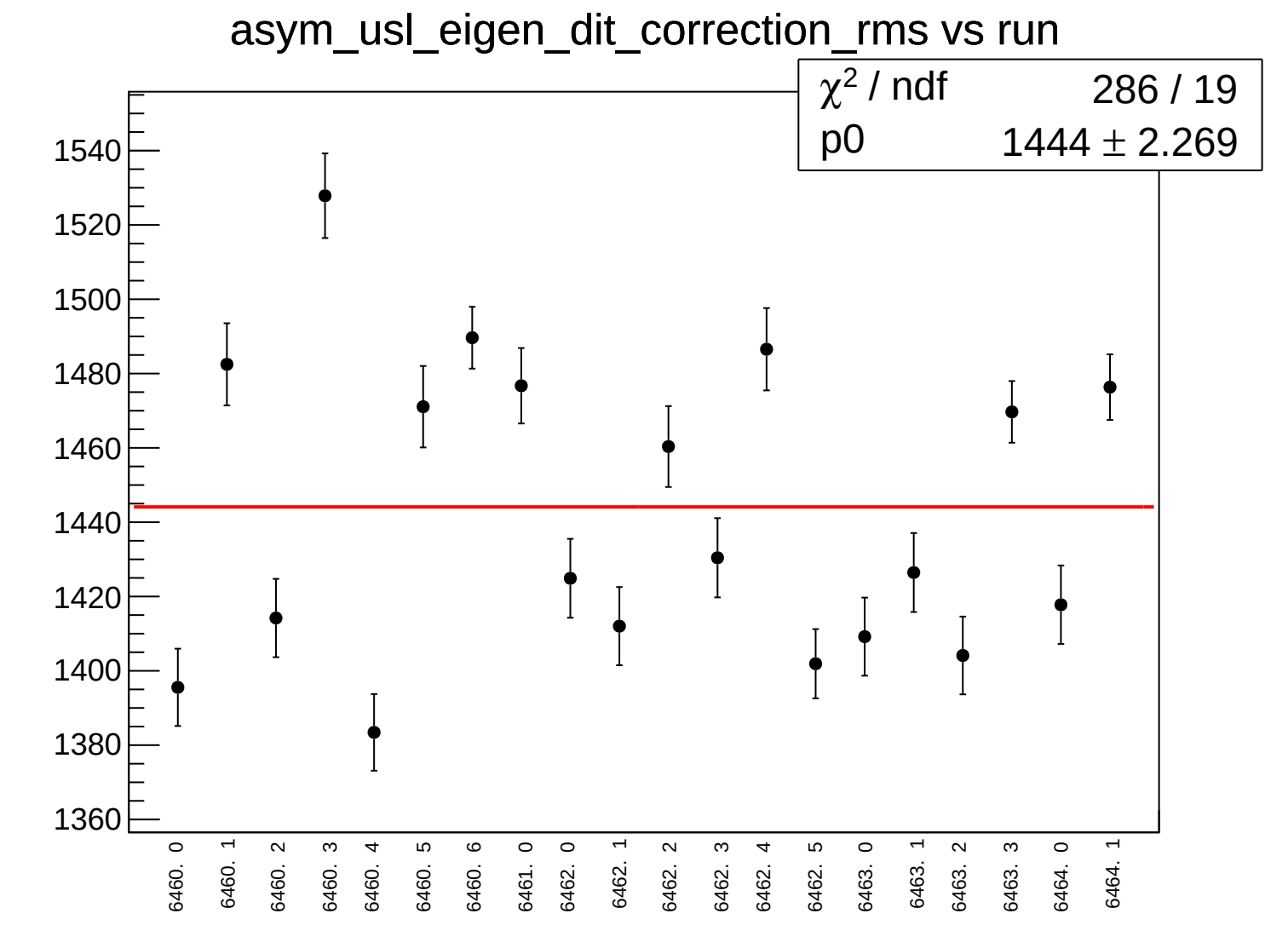

eigen_dit_asym_usl_mean vs run
χ² / ndf 17.23 / 19
p0 −1677 ± 2481
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 333.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

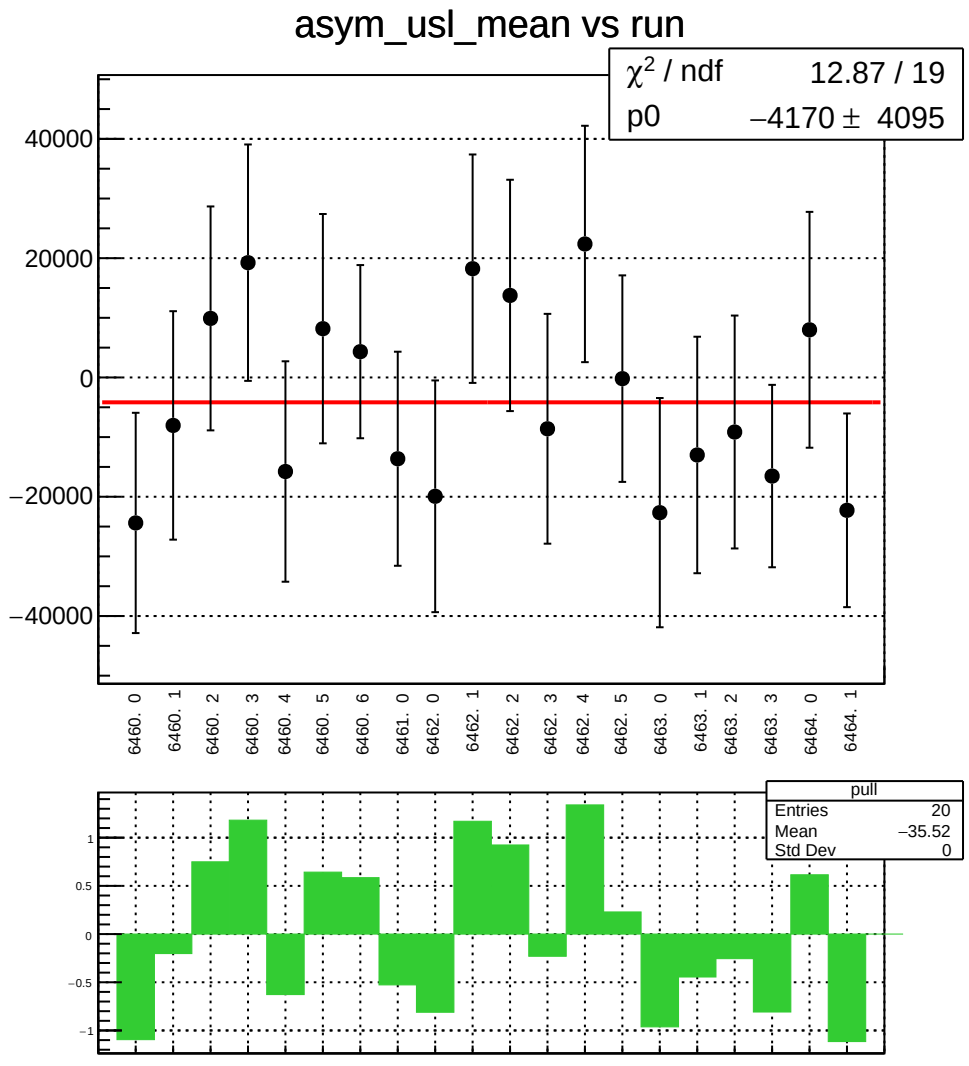

pull1D
Entries 20
Mean −0.005691
Std Dev 0.9281
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

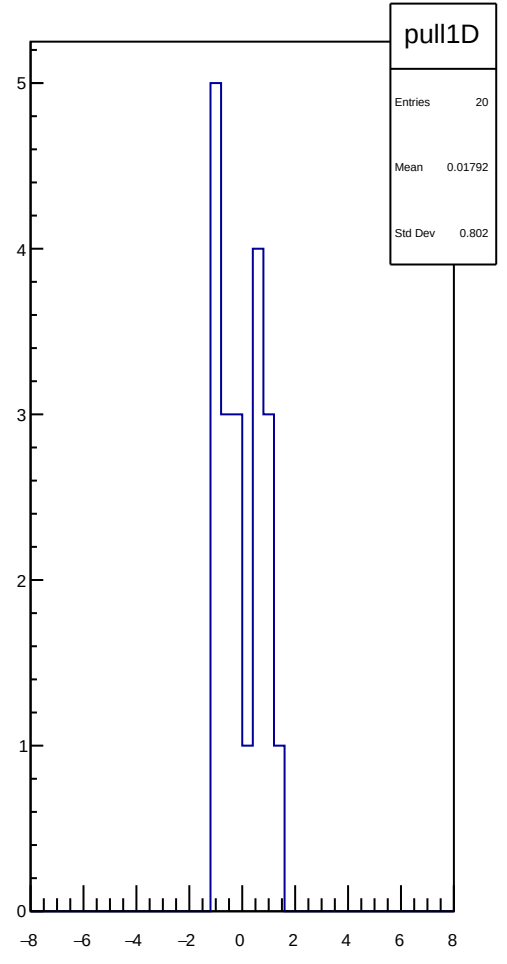

eigen_dit_asym_usl_rms vs run
χ² / ndf 34.33 / 19
p0 1117 ± 1.754
1140
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

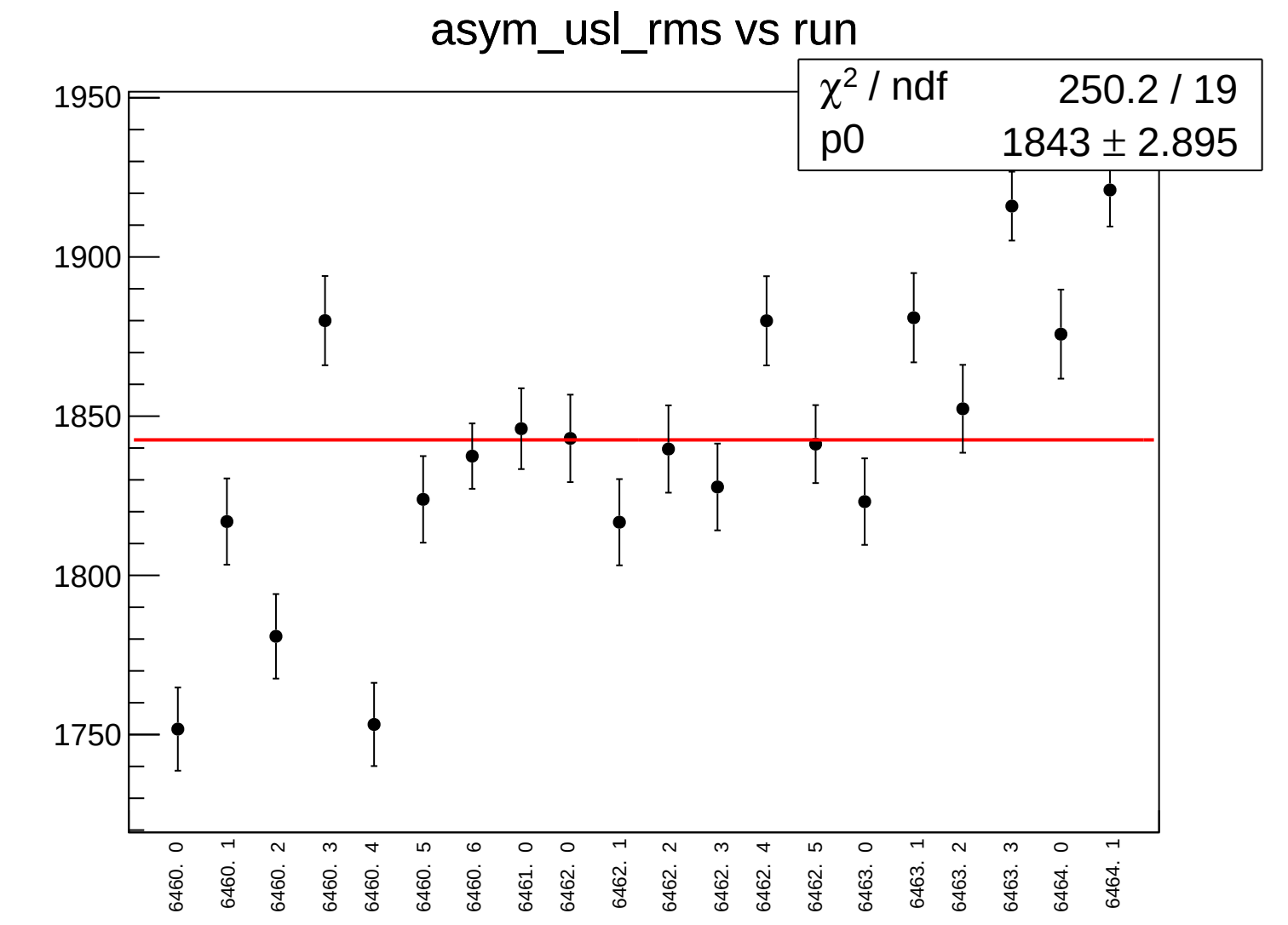

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 7.641 / 19
p0 2456 ± 3209
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.7
Std Dev 0
1
0.5
0
−0.5
−1

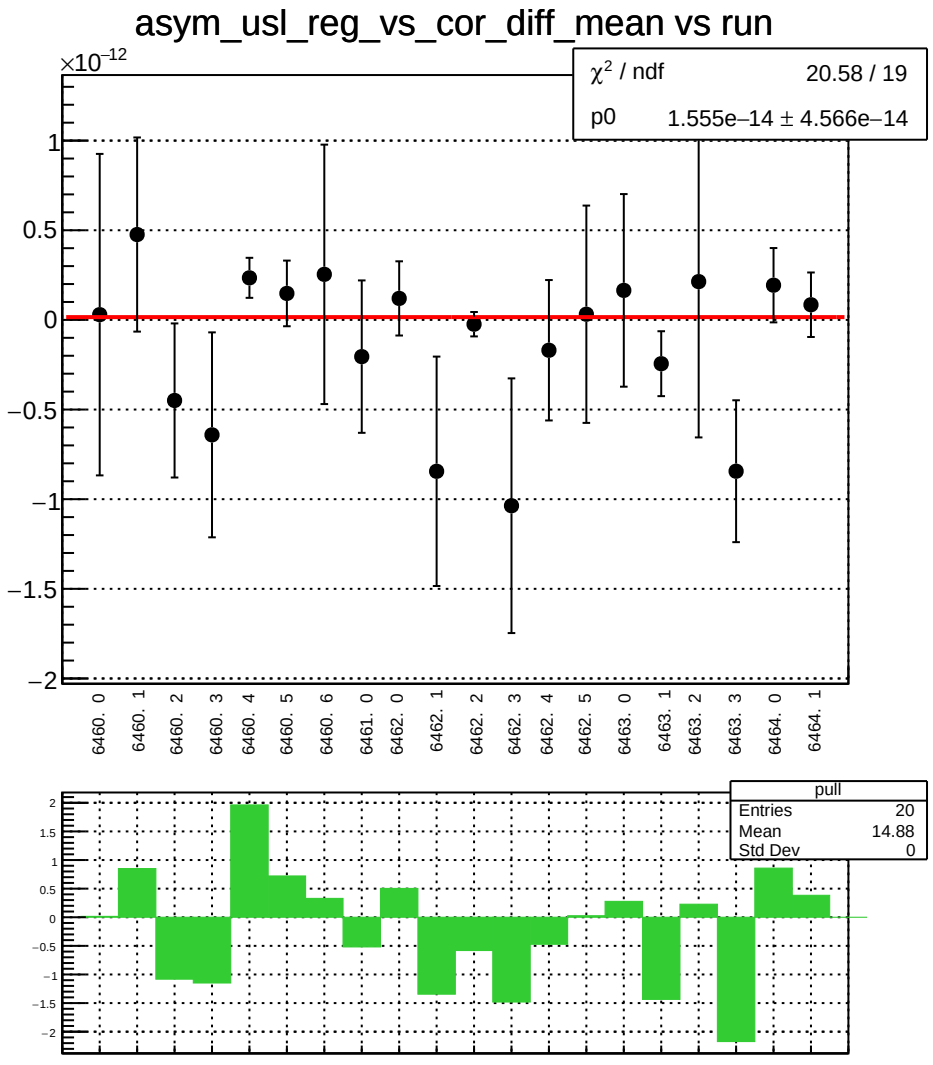

pull1D
Entries 20
Mean −0.02605
Std Dev 0.6175
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

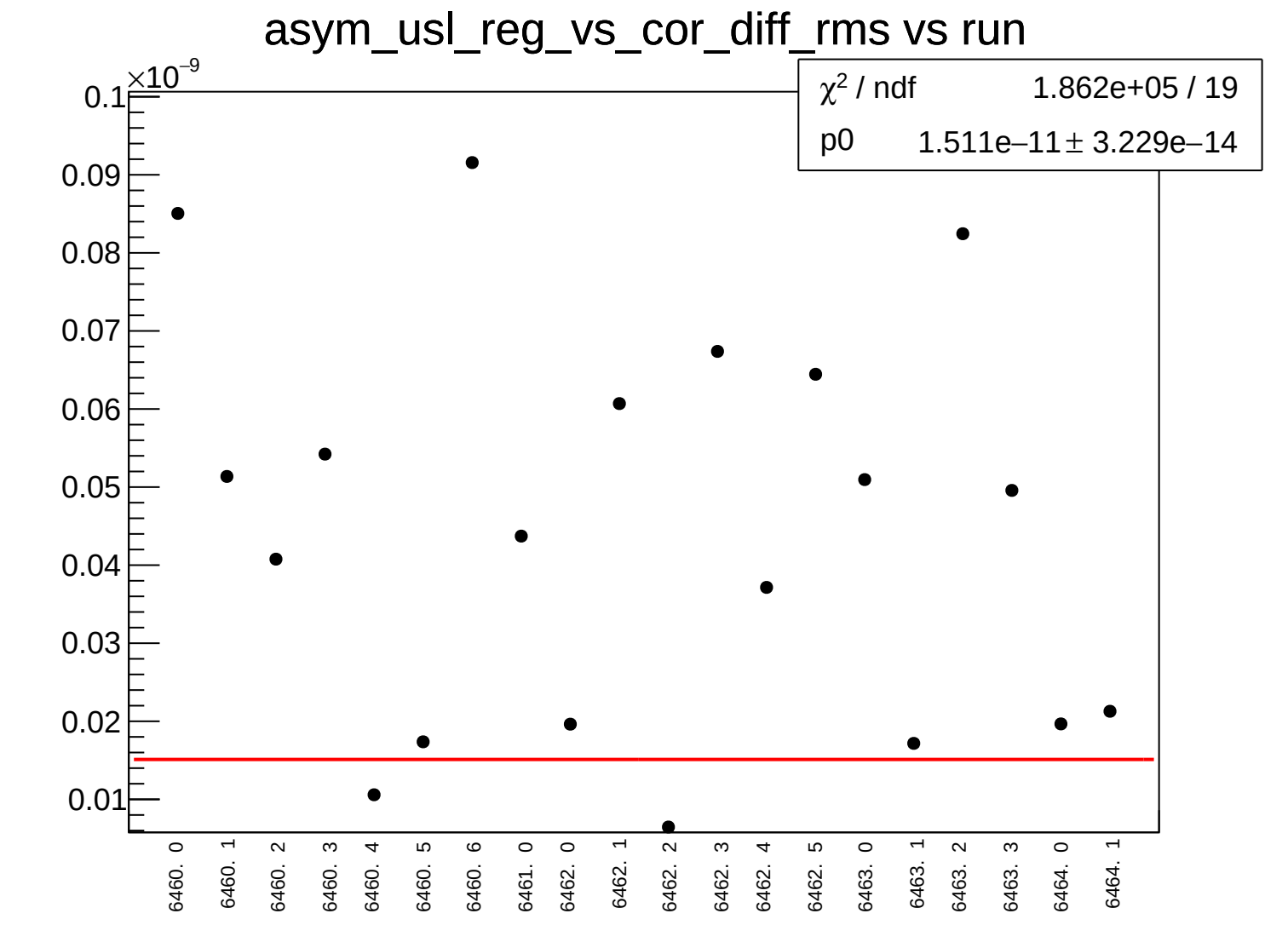

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 286 / 19
p0 1444 ± 2.269
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

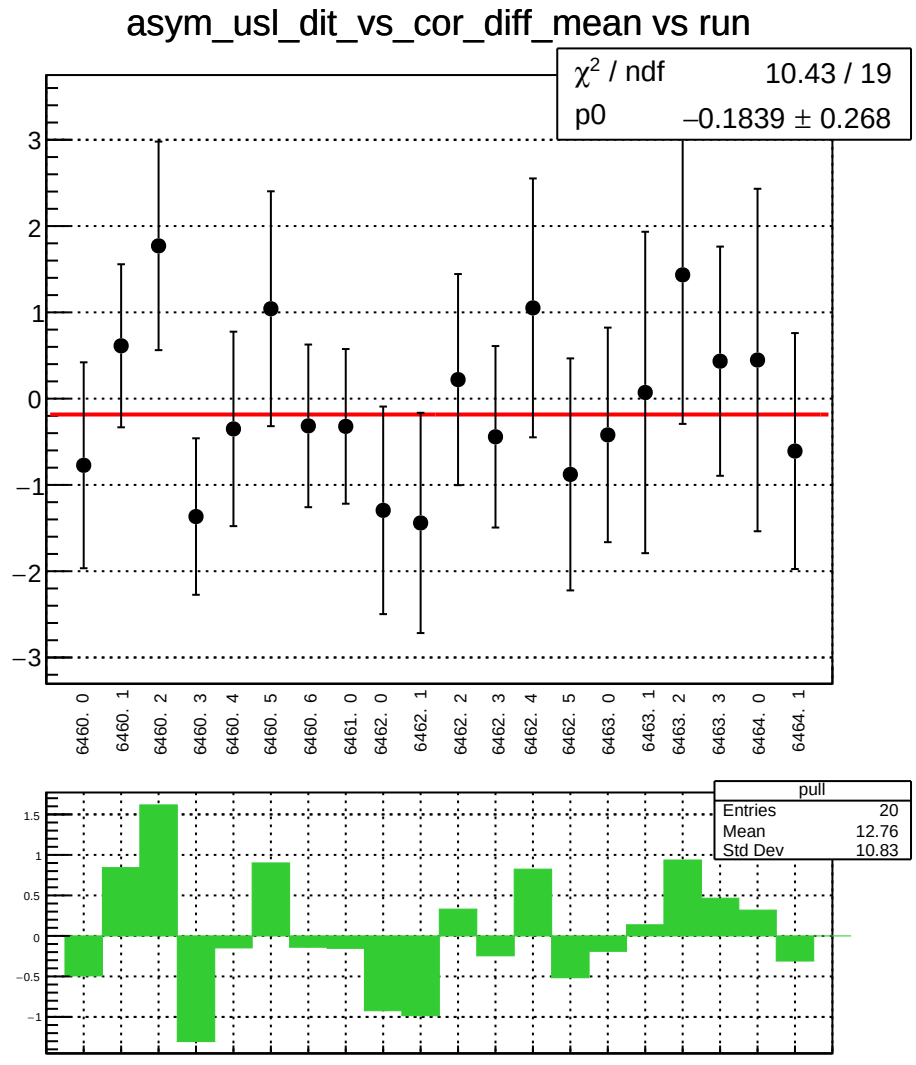

asym_usl_mean vs run
χ² / ndf 12.87 / 19
p0 −4170 ± 4095
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −35.52
Std Dev 0
1
0.5
0
−0.5
−1

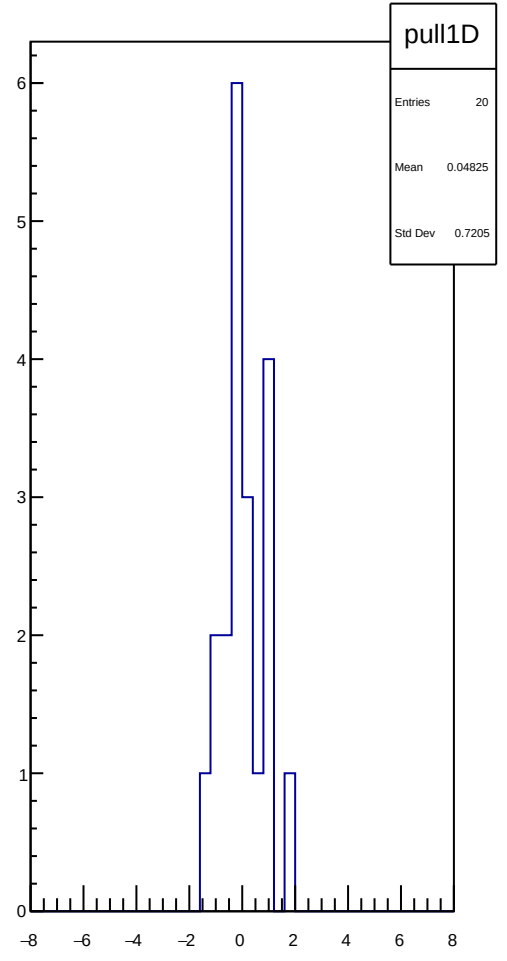

pull1D
Entries 20
Mean 0.01792
Std Dev 0.802
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

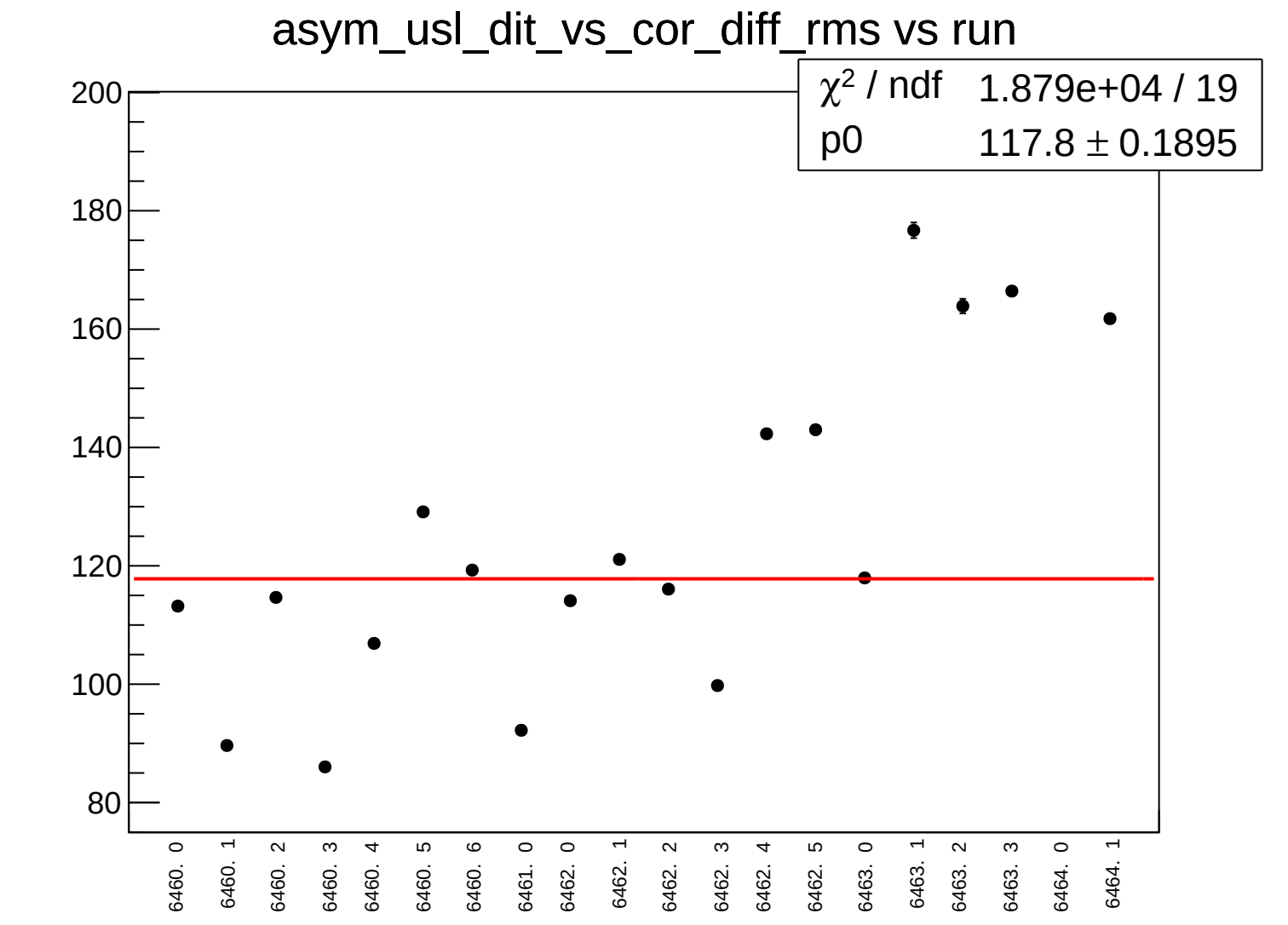

asym_usl_rms vs run
χ² / ndf 250.2 / 19
p0 1843 ± 2.895
1950
1900
1850
1800
1750
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

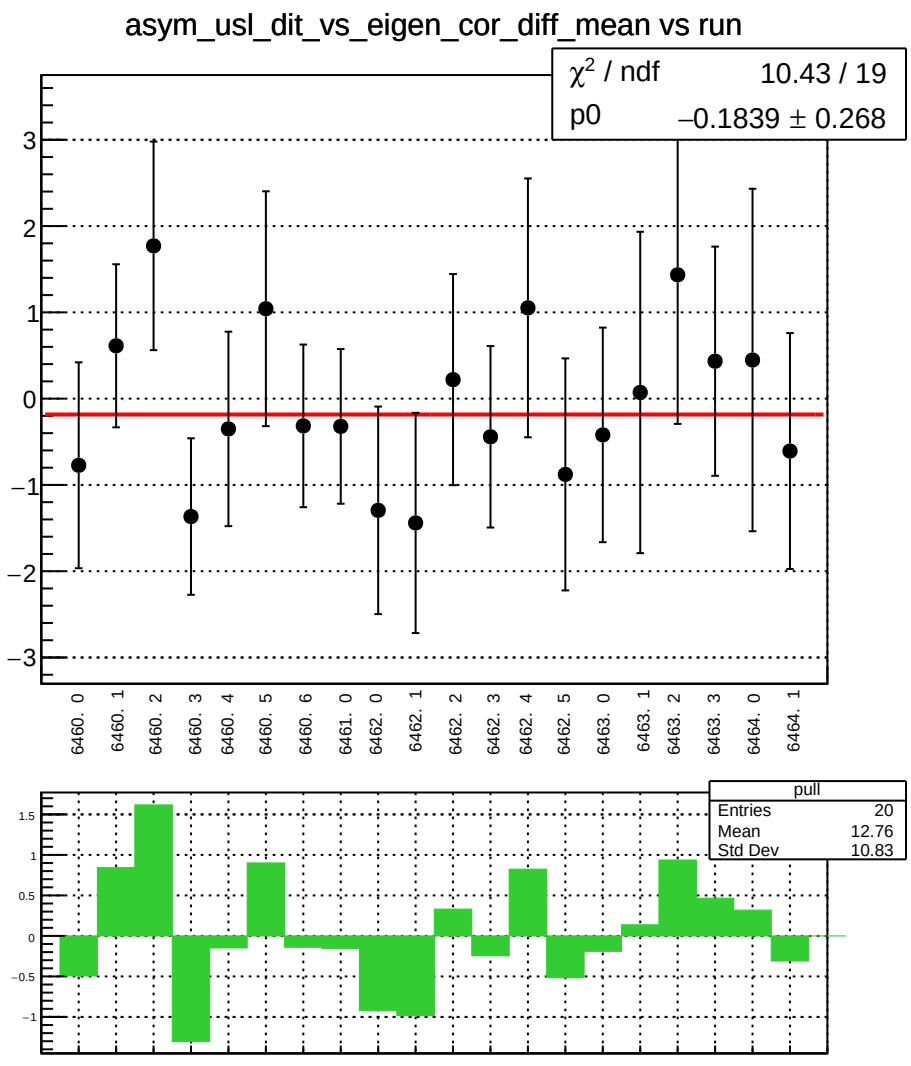

asym_usl_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 20.58 / 19
p0 1.555e−14 ± 4.566e−14
1
0.5
0
−0.5
−1
−1.5
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 14.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.2039
Std Dev 0.9936
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

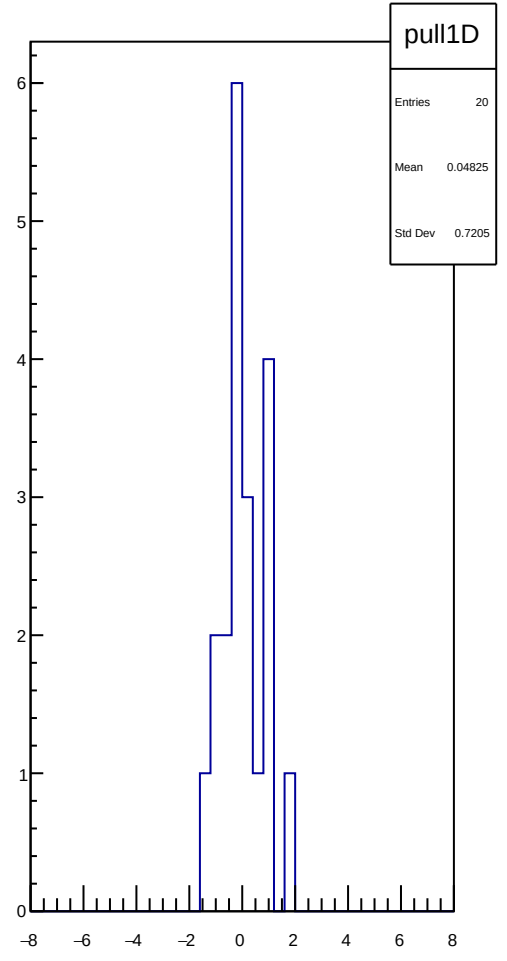

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.862e+05 / 19
p0 1.511e−11 ± 3.229e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

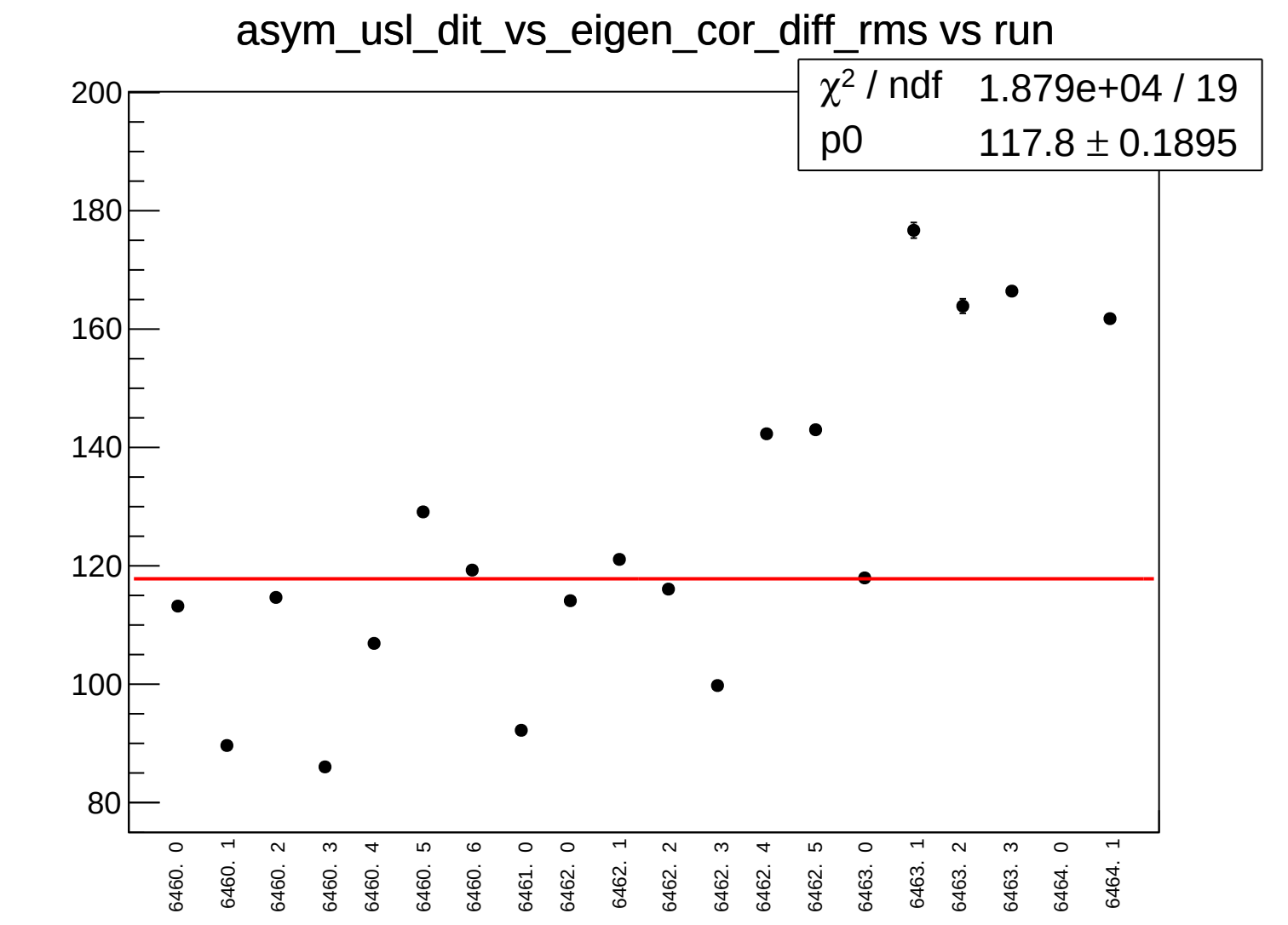

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 10.43 / 19
p0 −0.1839 ± 0.268
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.76
Std Dev 10.83
1.5
1
0.5
0
−0.5
−1

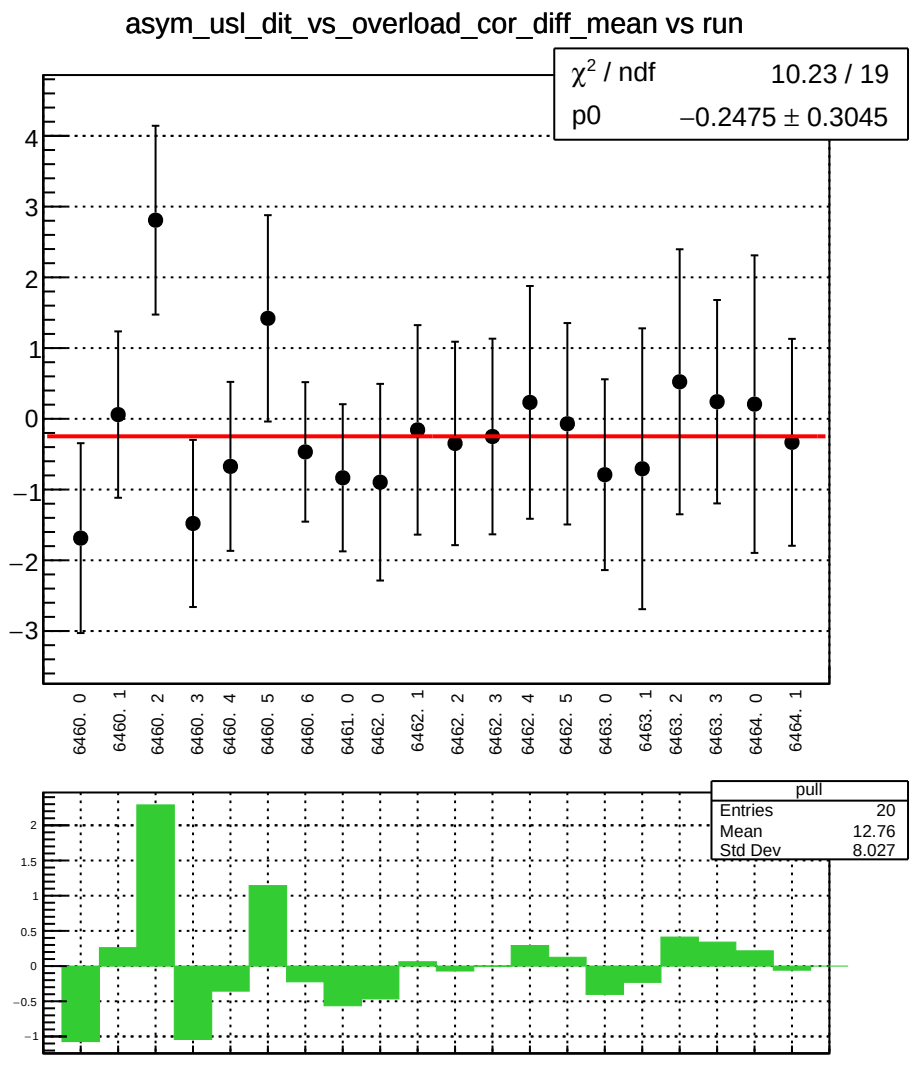

pull1D
Entries 20
Mean 0.04825
Std Dev 0.7205
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

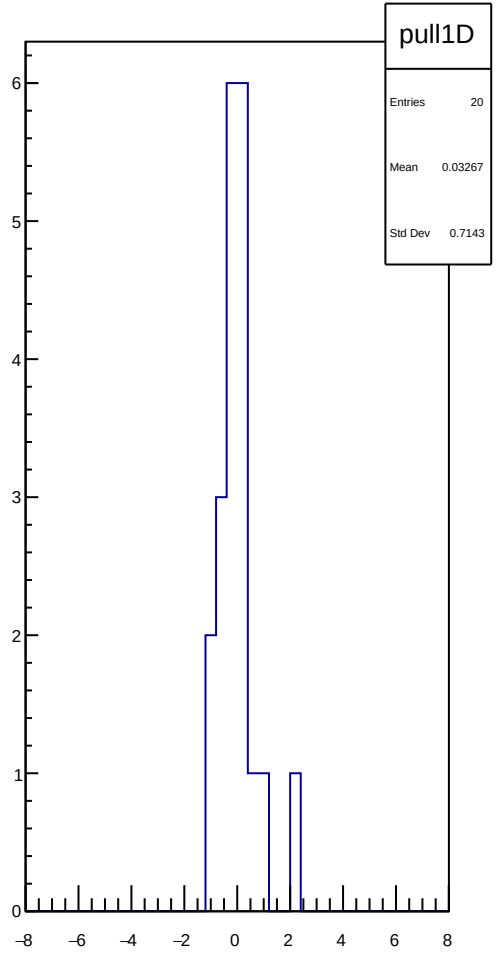

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.879e+04 / 19
p0 117.8 ± 0.1895
200
180
160
140
120
100
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

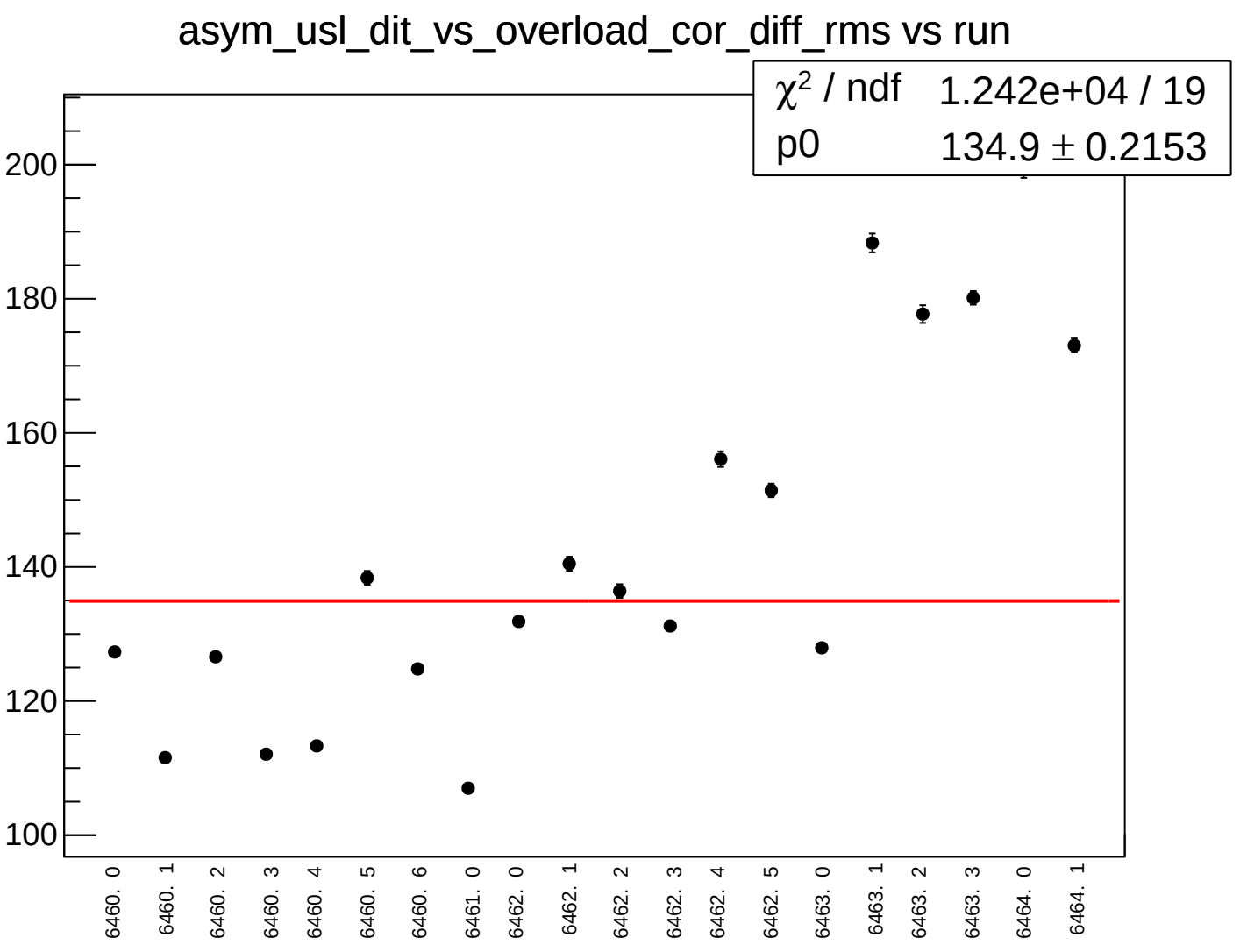

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.43 / 19
p0 −0.1839 ± 0.268
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.76
Std Dev 10.83
1.5
1
0.5
0
−0.5
−1

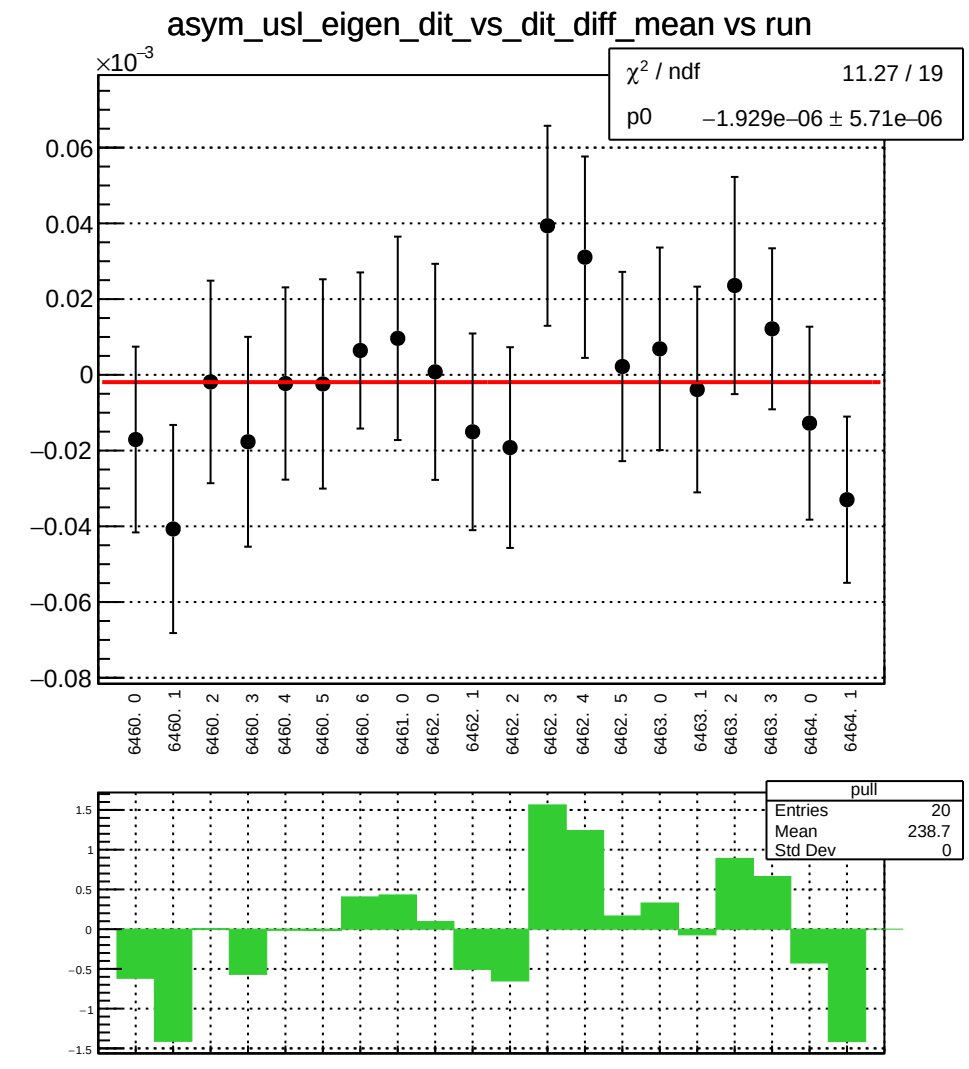

pull1D
Entries 20
Mean 0.04825
Std Dev 0.7205
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

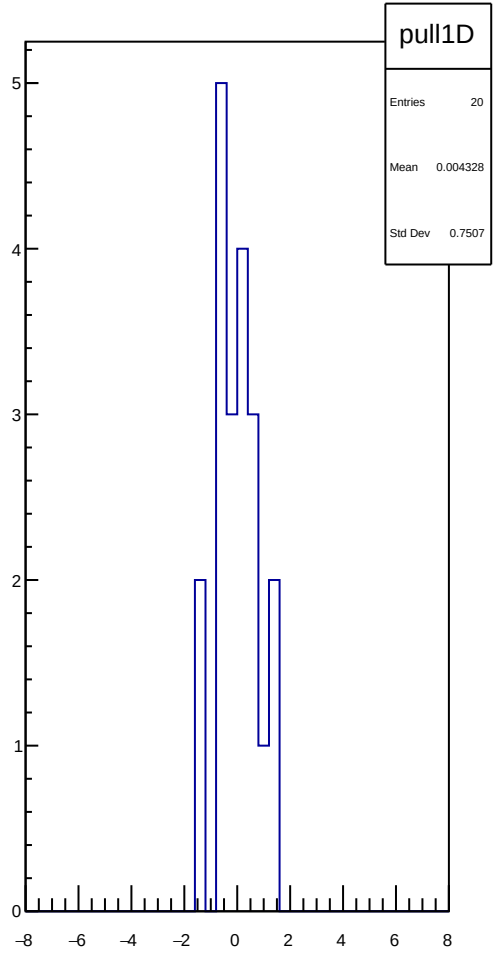

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.879e+04 / 19
p0 117.8 ± 0.1895
200
180
160
140
120
100
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

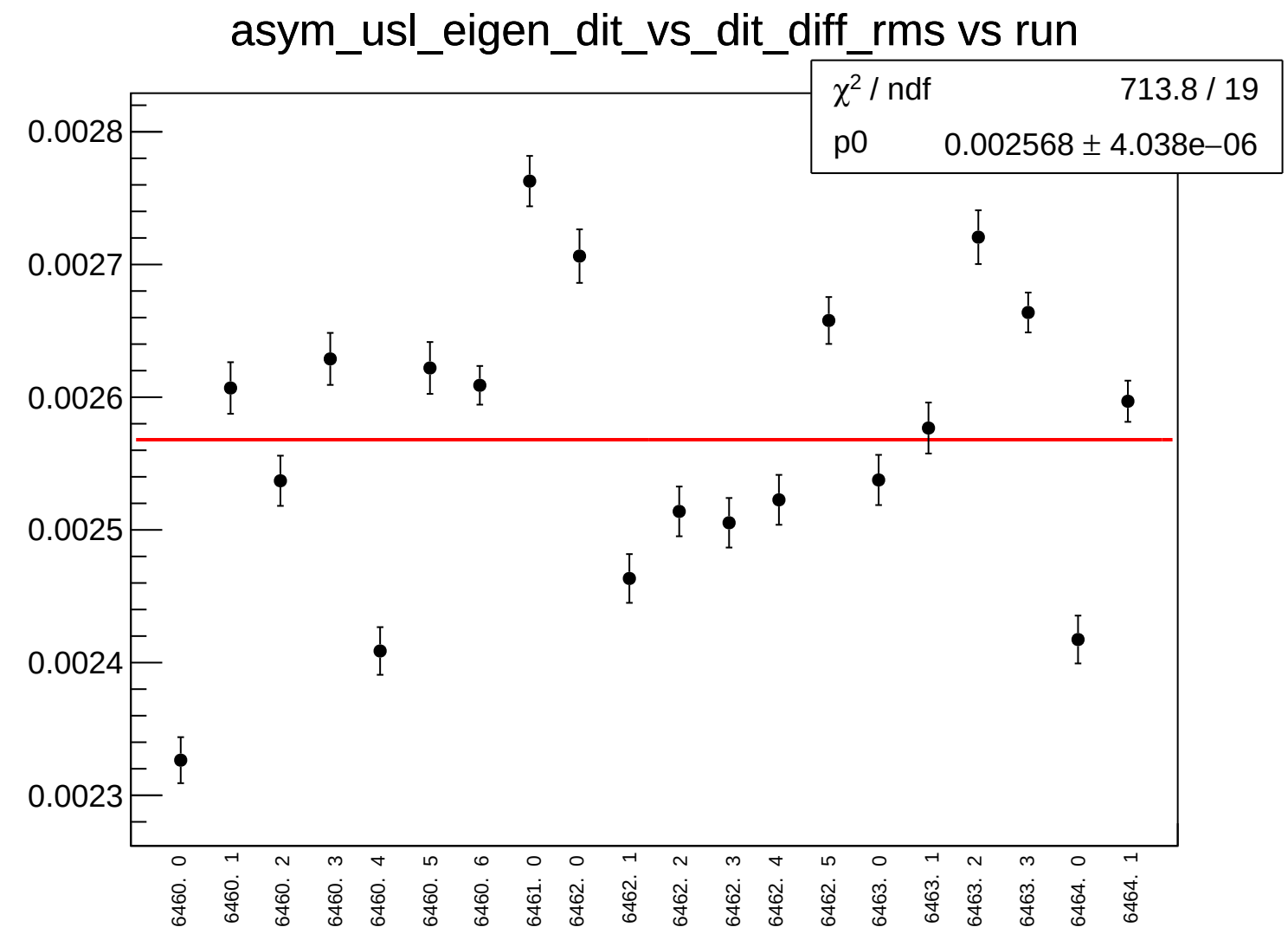

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 10.23 / 19
p0 −0.2475 ± 0.3045
4
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.76
Std Dev 8.027
2
1.5
1
0.5
0
−0.5
−1

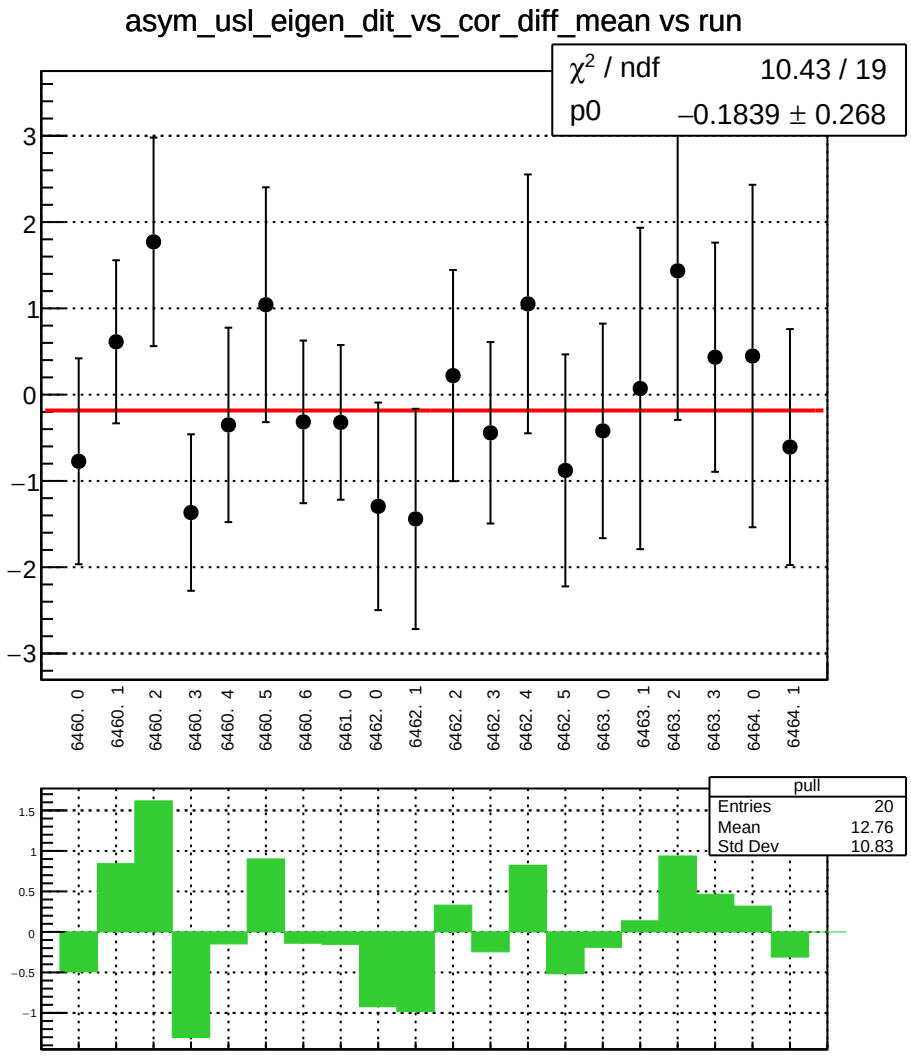

pull1D
Entries 20
Mean 0.03267
Std Dev 0.7143
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

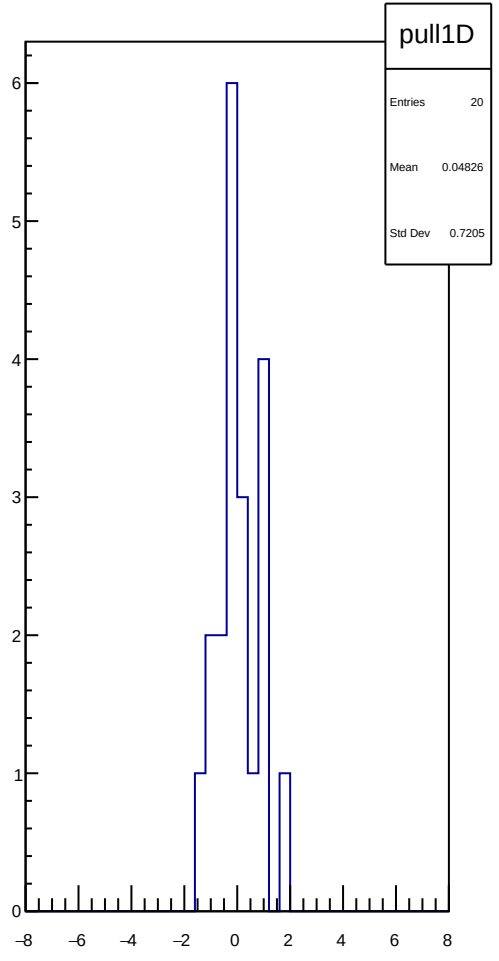

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.242e+04 / 19
p0 134.9 ± 0.2153
200
180
160
140
120
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

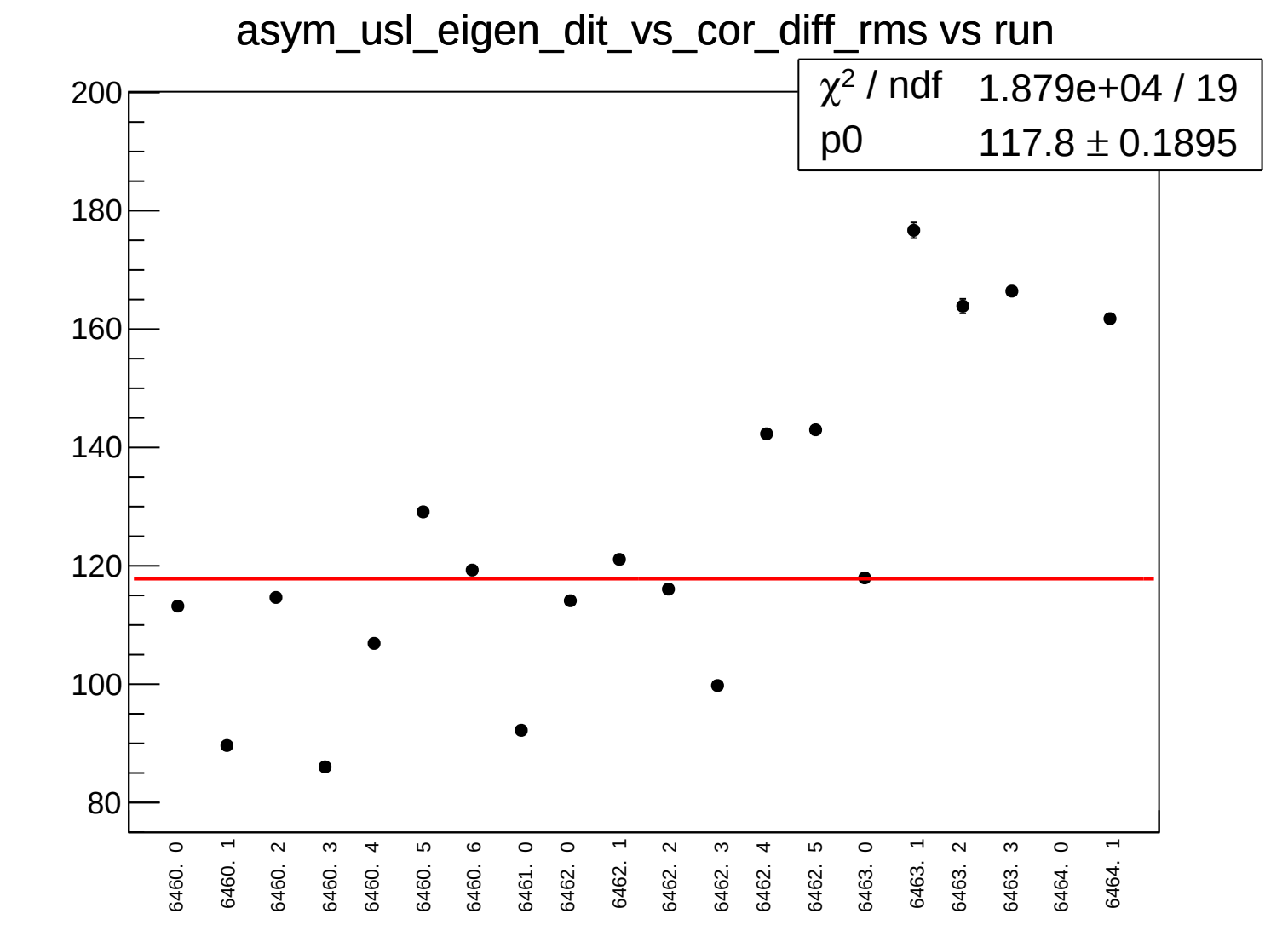

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.27 / 19
p0 −1.929e−06 ± 5.71e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 238.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

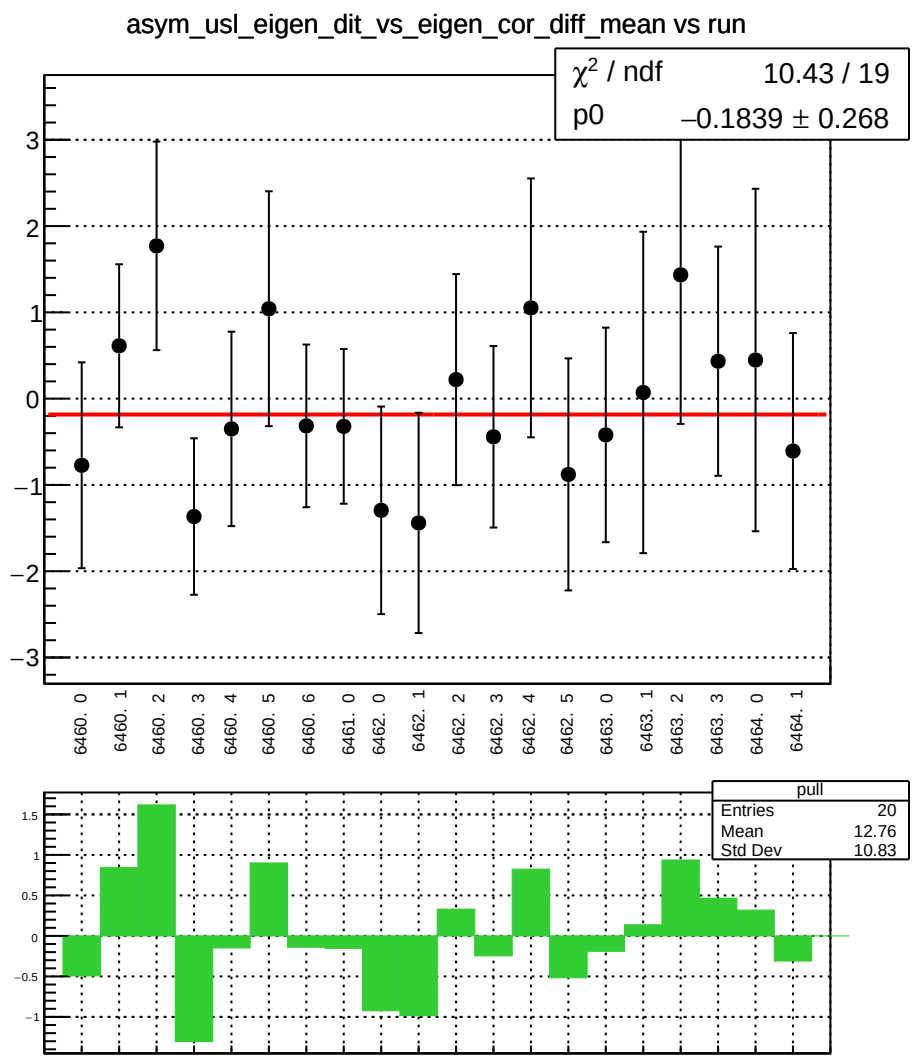

pull1D
Entries 20
Mean 0.004328
Std Dev 0.7507
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

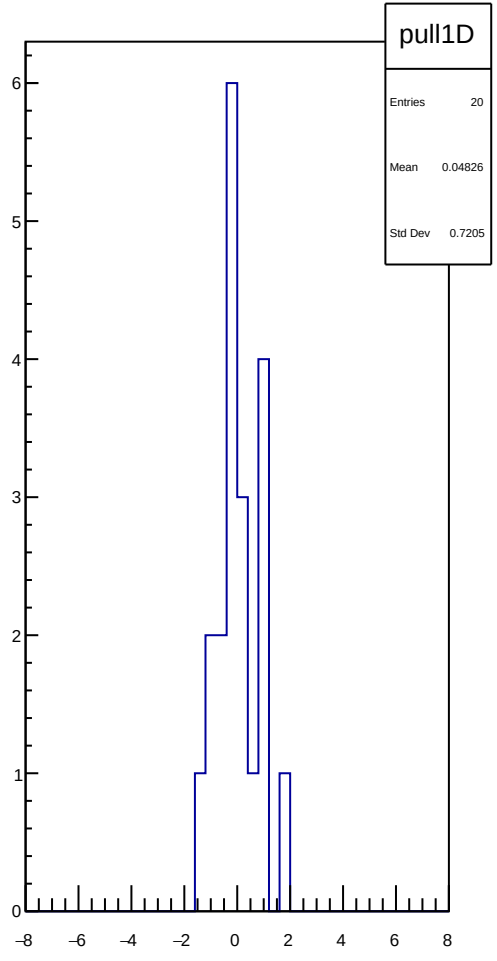

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 713.8 / 19
p0 0.002568 ± 4.038e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

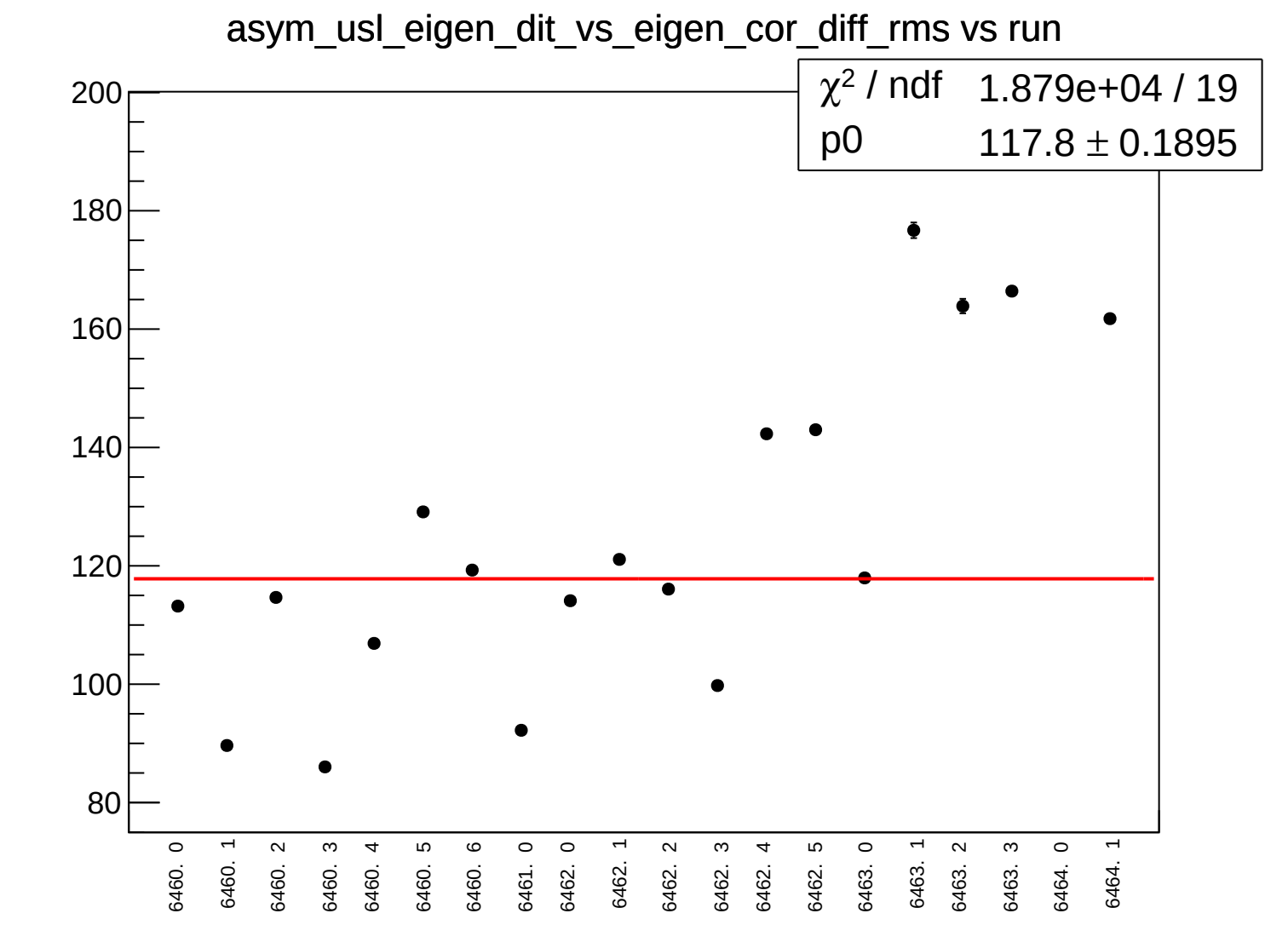

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 10.43 / 19
p0 −0.1839 ± 0.268
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.76
Std Dev 10.83
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.04826
Std Dev 0.7205
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

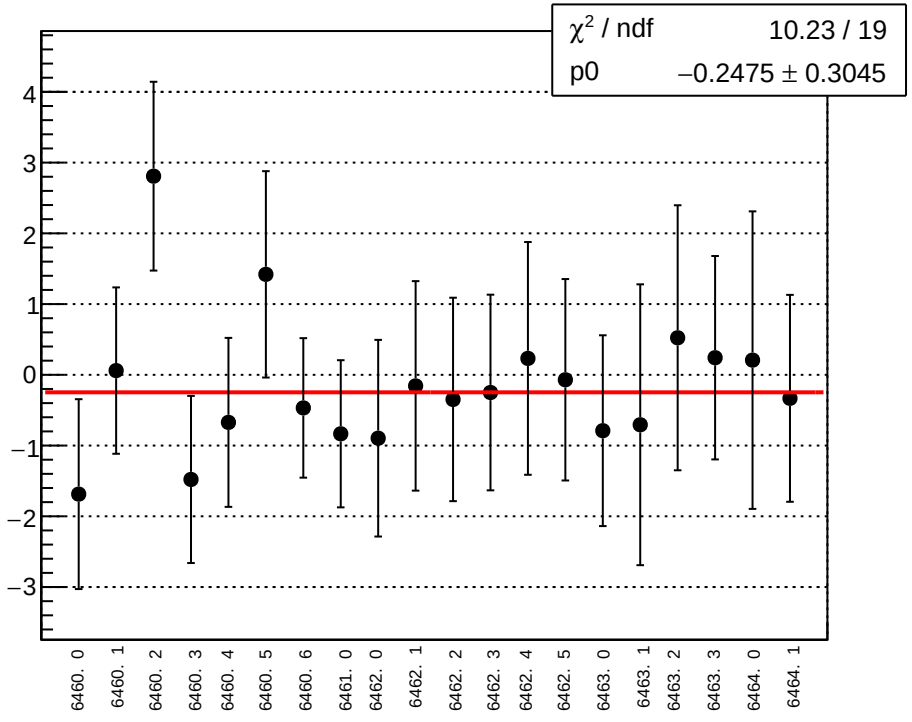

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.879e+04 / 19
p0 117.8 ± 0.1895
200
180
160
140
120
100
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

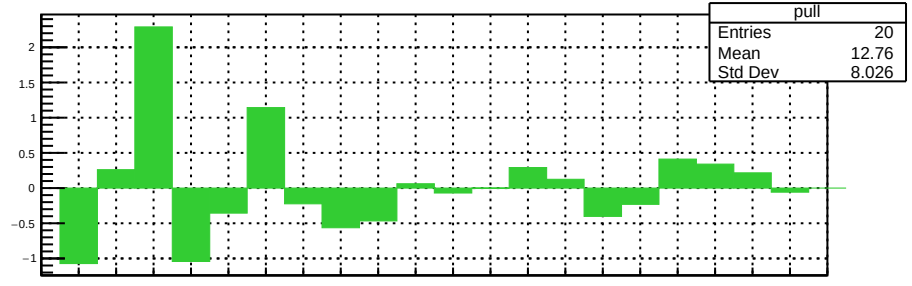

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.43 / 19
p0 −0.1839 ± 0.268
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.76
Std Dev 10.83
1.5
1
0.5
0
−0.5
−1

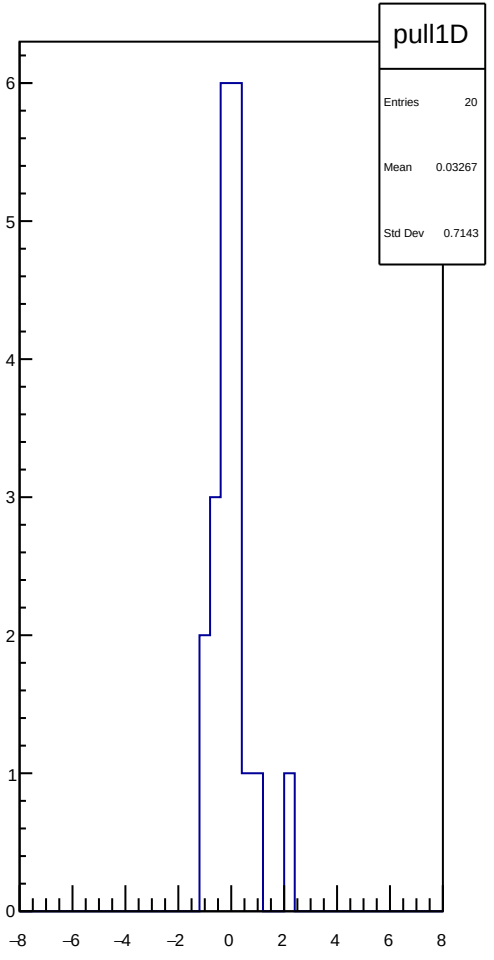

pull1D
Entries 20
Mean 0.04826
Std Dev 0.7205
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

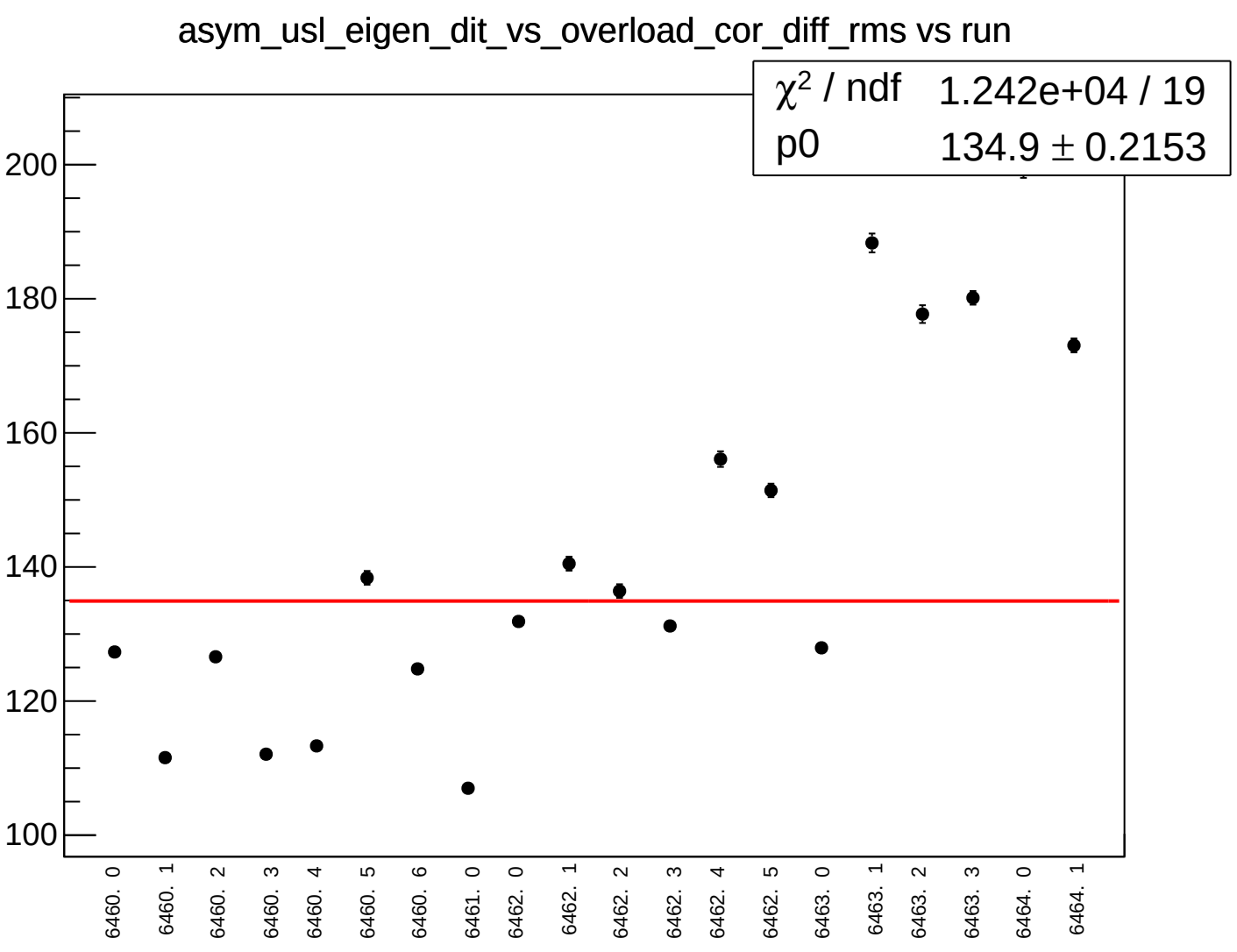

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.879e+04 / 19
p0 117.8 ± 0.1895
200
180
160
140
120
100
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

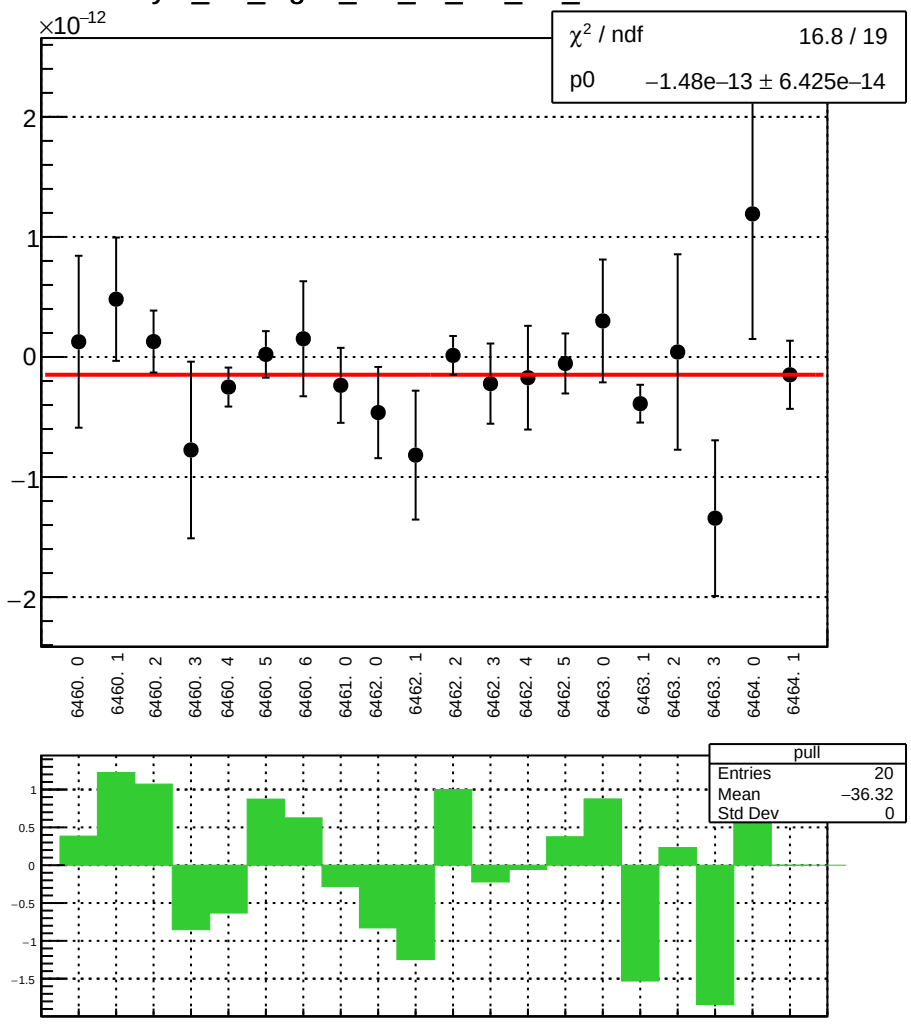
asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run

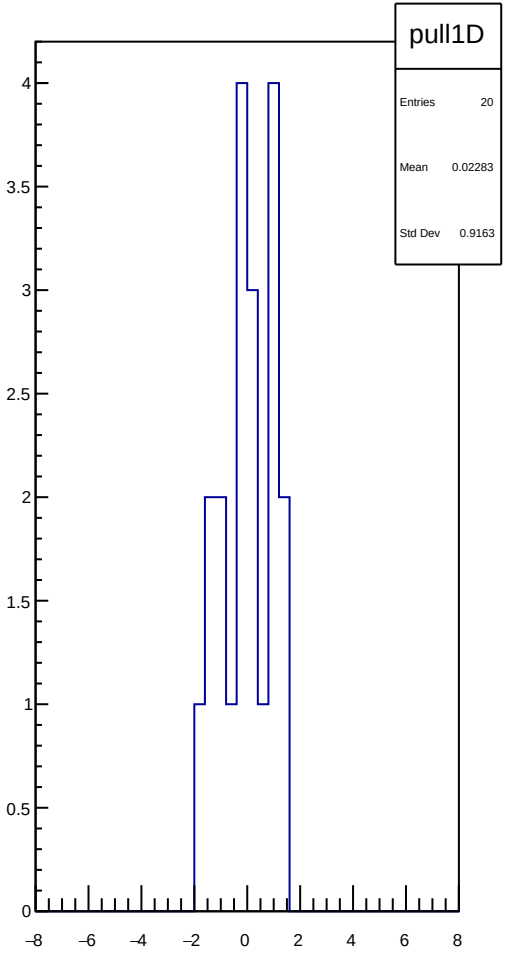


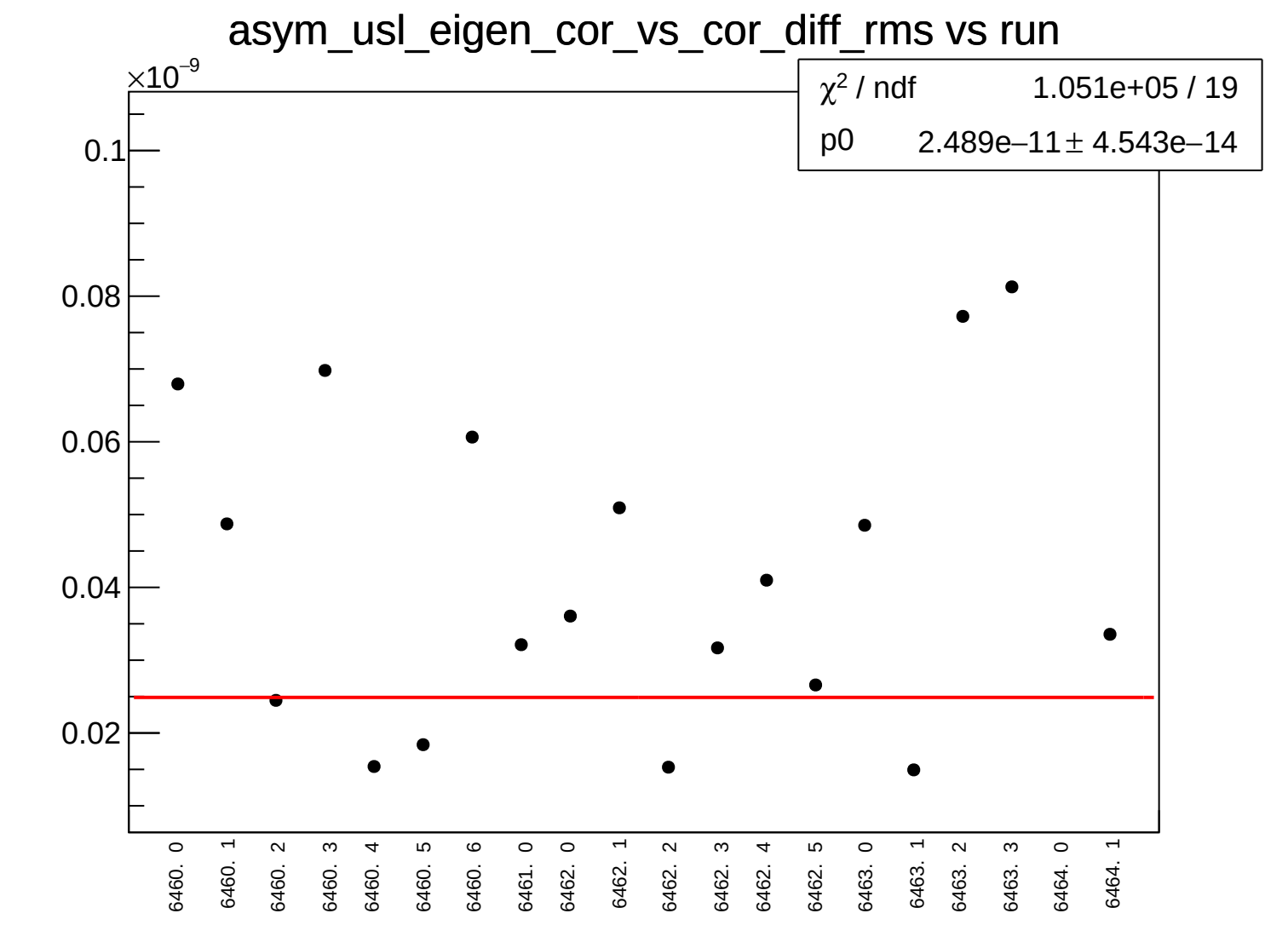


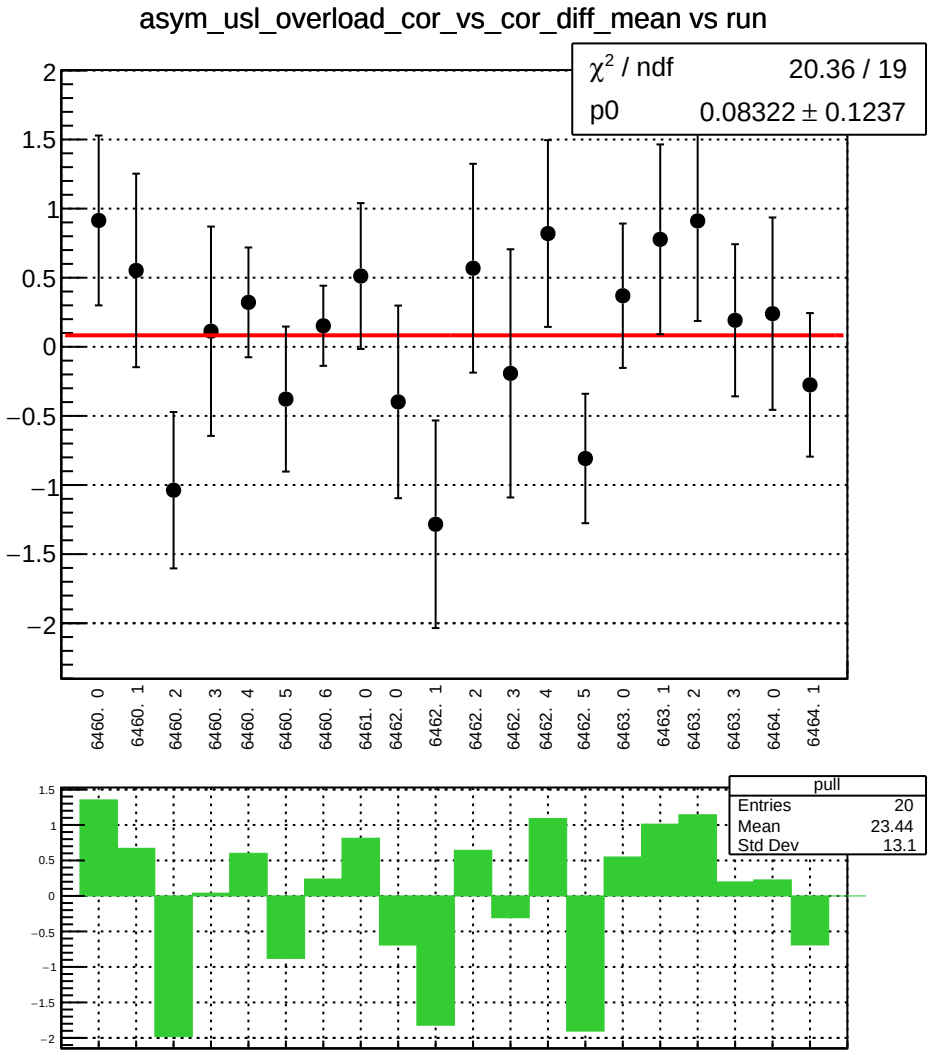


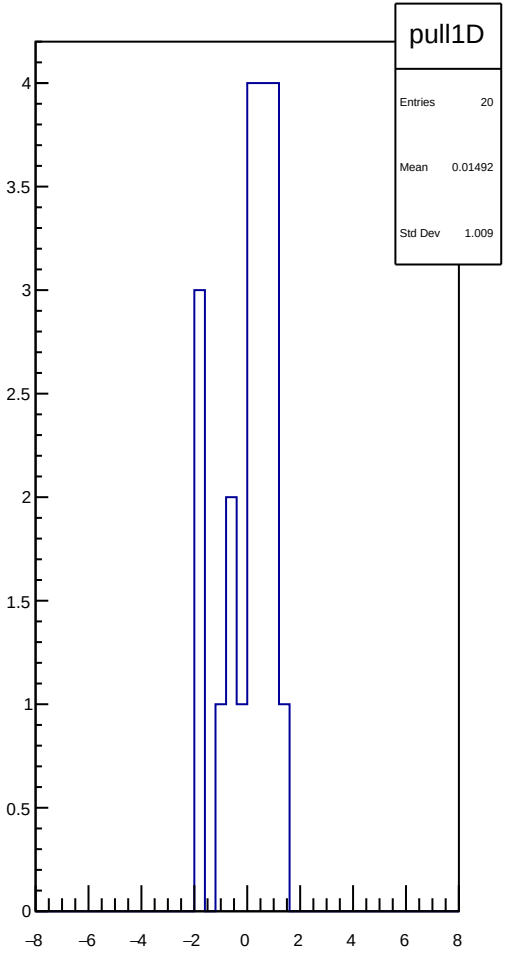

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.242e+04 / 19
p0 134.9 ± 0.2153
200
180
160
140
120
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

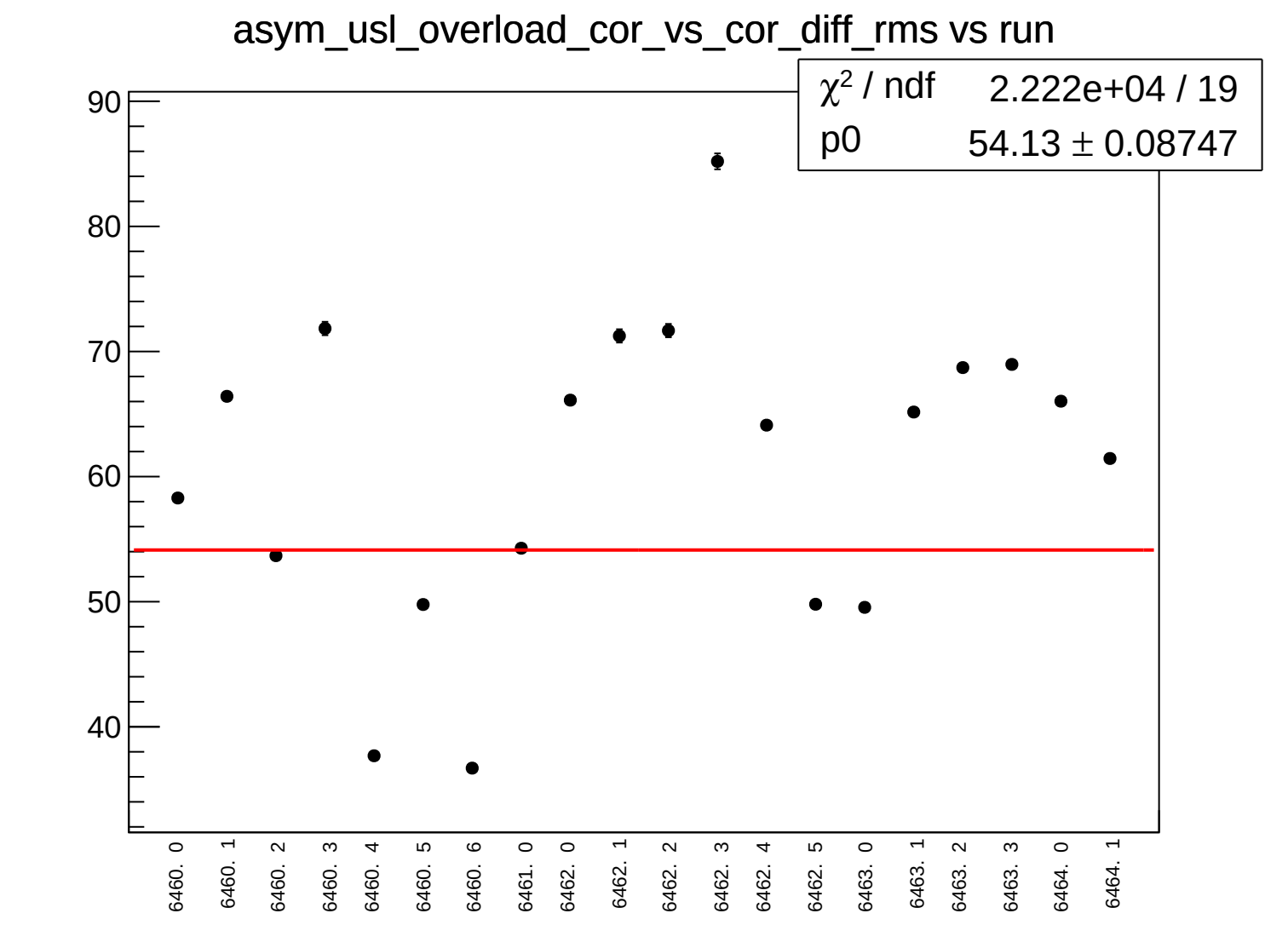

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.8 / 19
p0 −1.48e−13 ± 6.425e−14
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −36.32
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

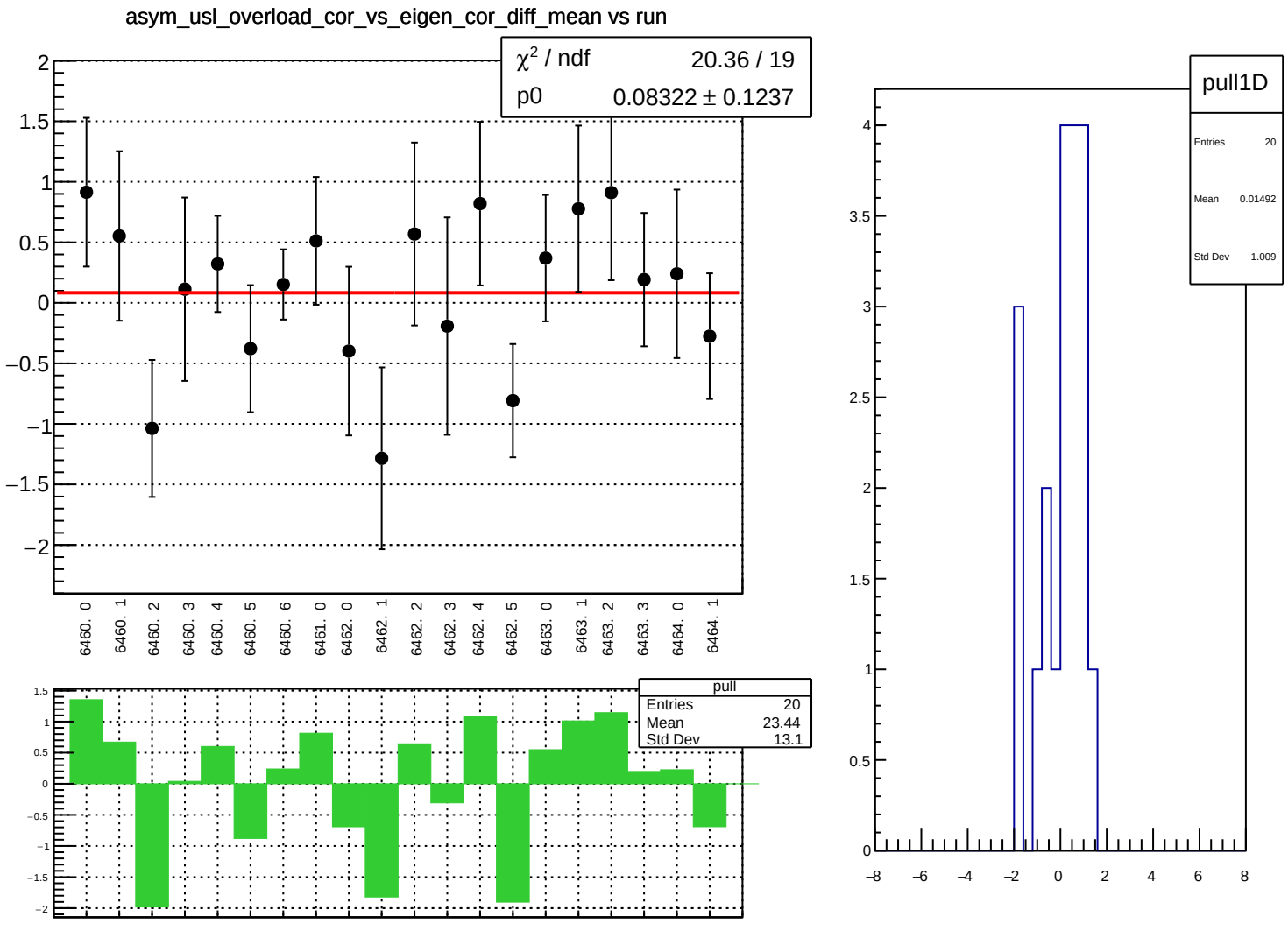

pull1D
Entries 20
Mean 0.02283
Std Dev 0.9163
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

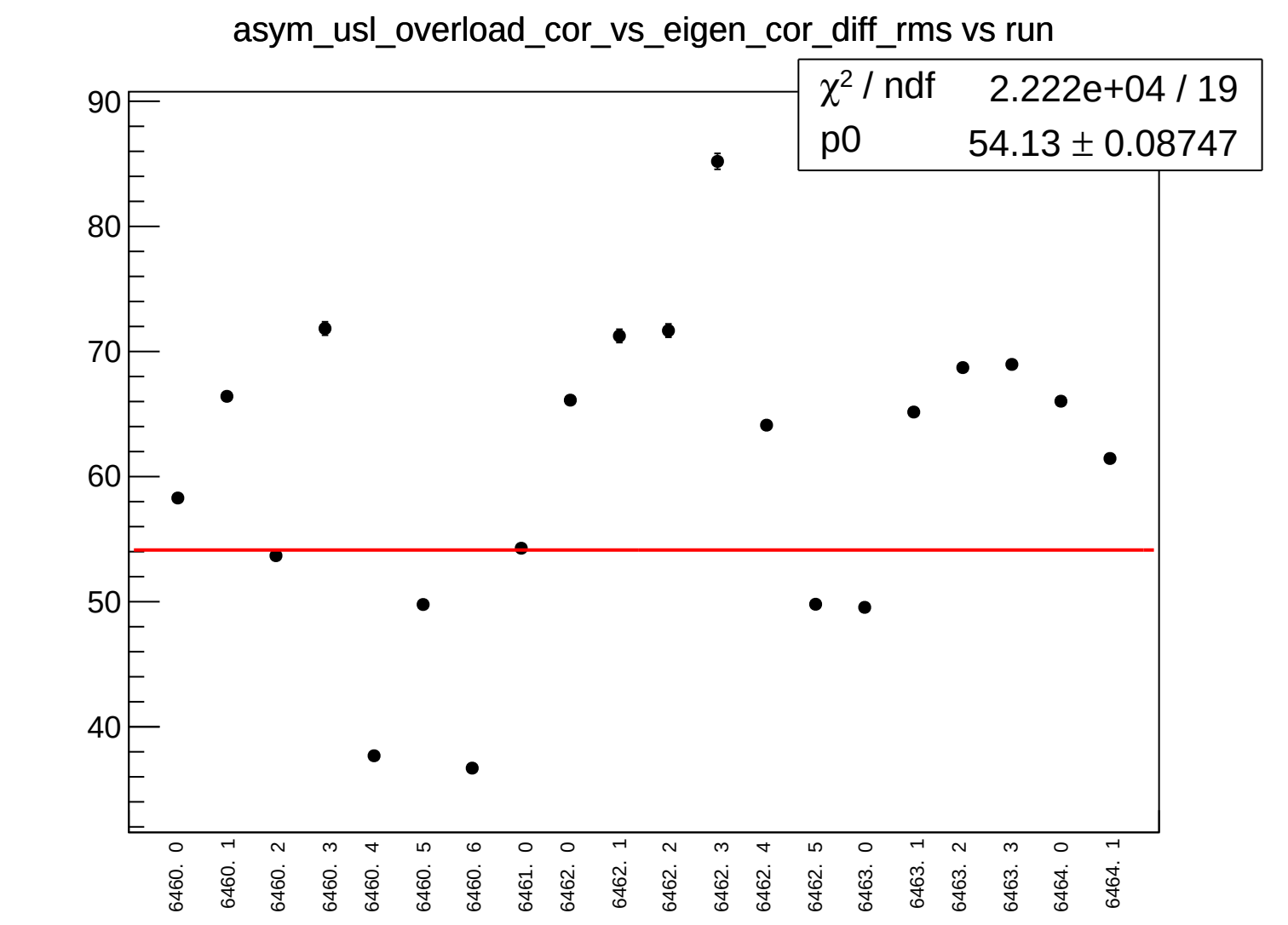

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.051e+05 / 19
p0 2.489e−11 ± 4.543e−14
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

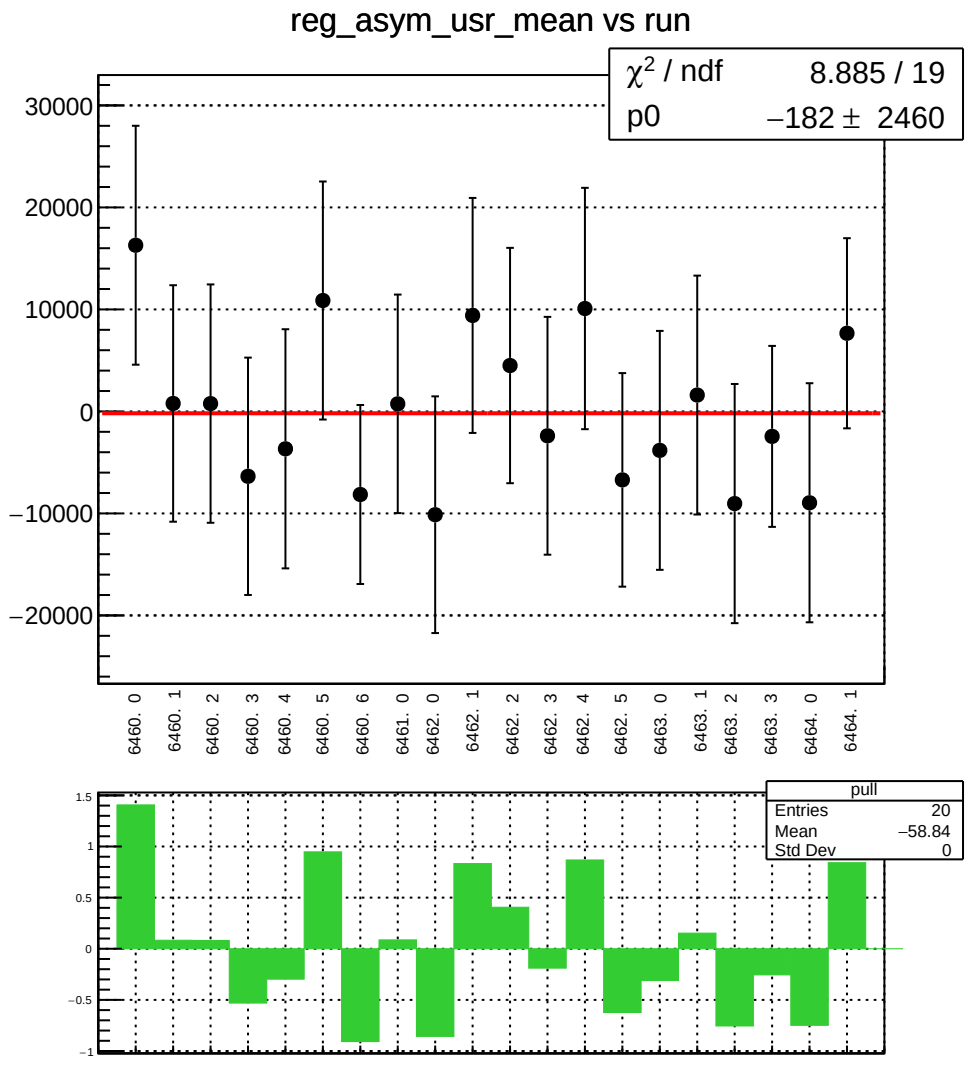

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 20.36 / 19
p0 0.08322 ± 0.1237
pull
Entries 20
Mean 23.44
Std Dev 13.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

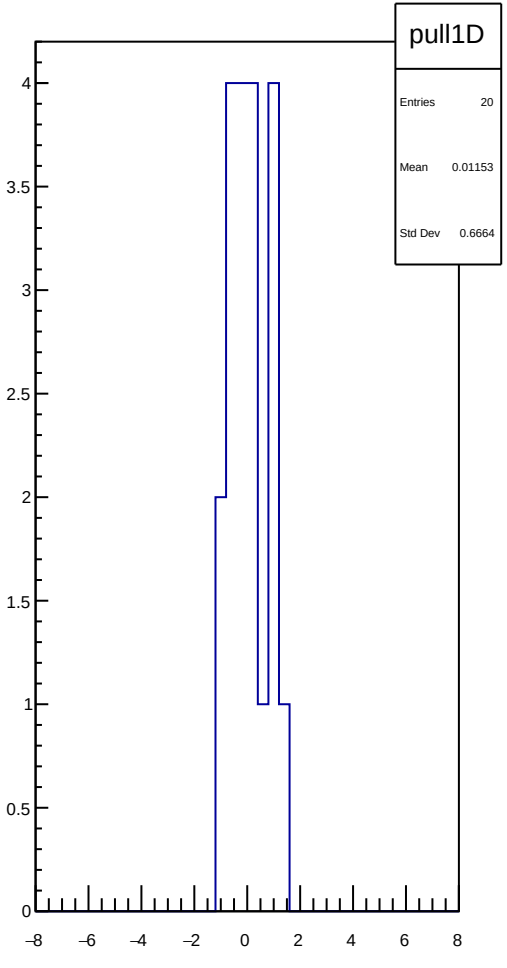

pull1D
Entries 20
Mean 0.01492
Std Dev 1.009

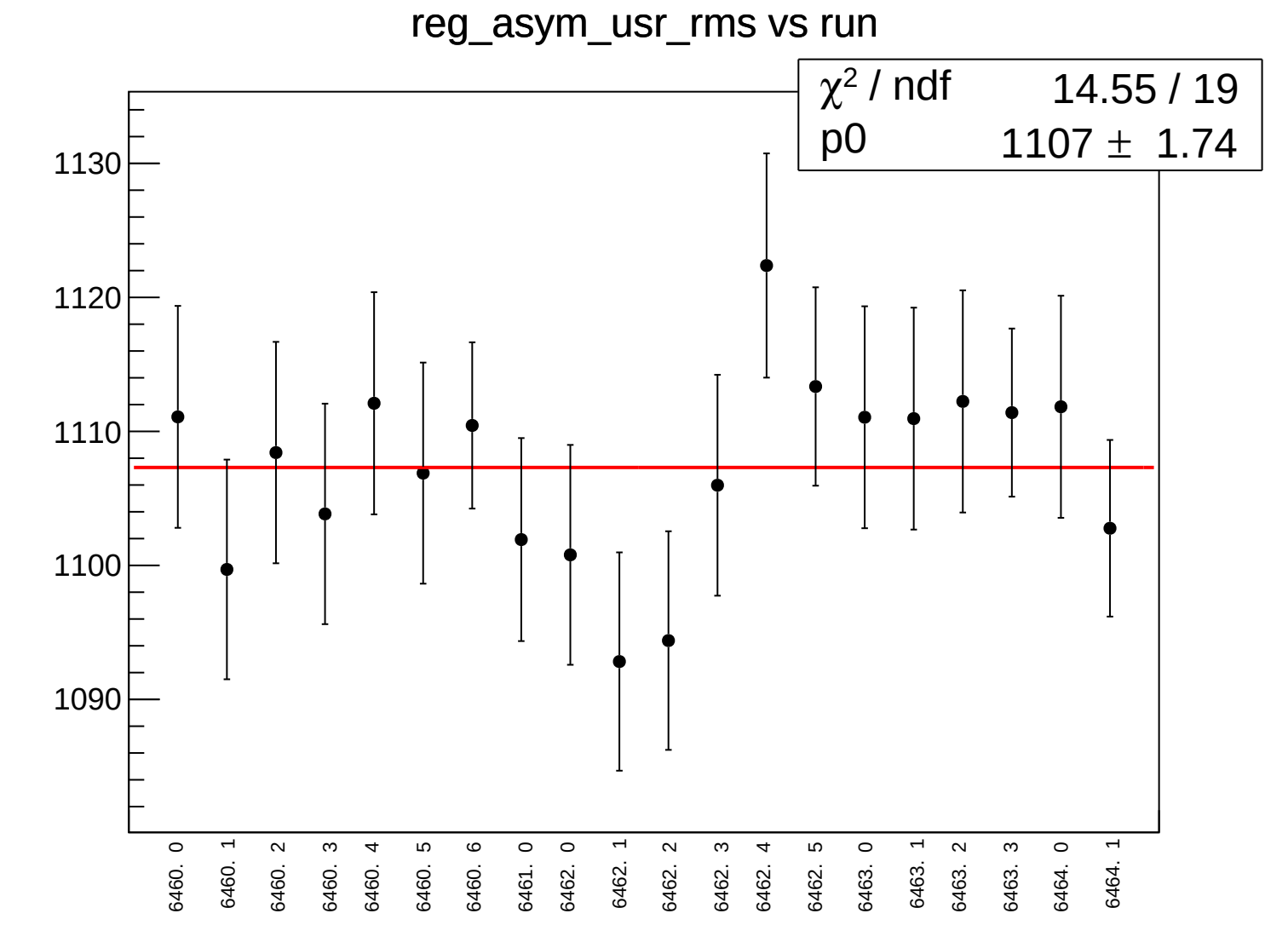

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.222e+04 / 19
p0 54.13 ± 0.08747
90
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

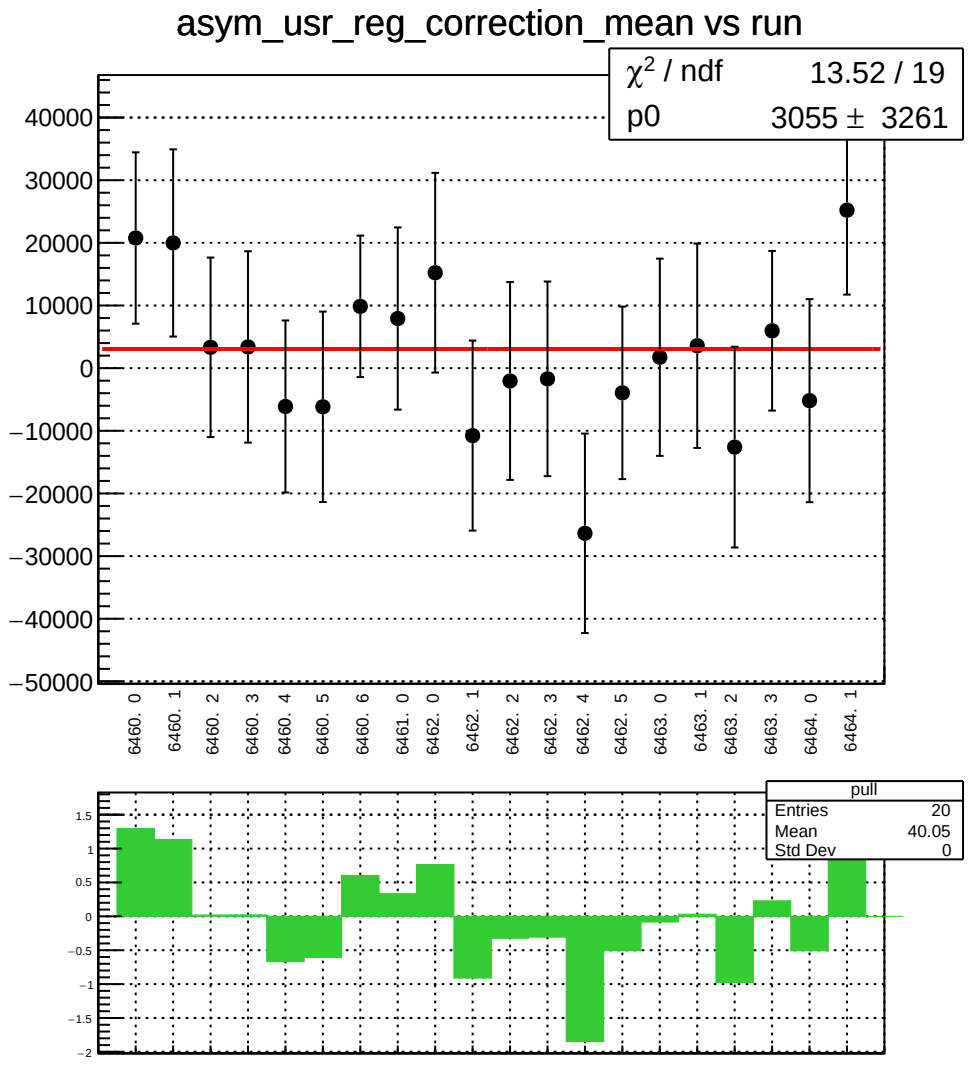

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.36 / 19
p0 0.08322 ± 0.1237
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.44
Std Dev 13.1
pull1D
Entries 20
Mean 0.01492
Std Dev 1.009

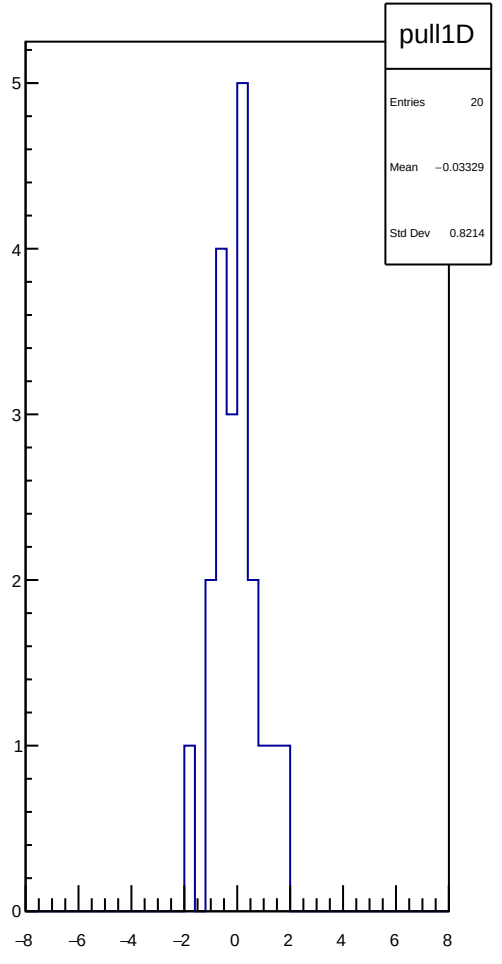

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.222e+04 / 19
p0 54.13 ± 0.08747
90
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

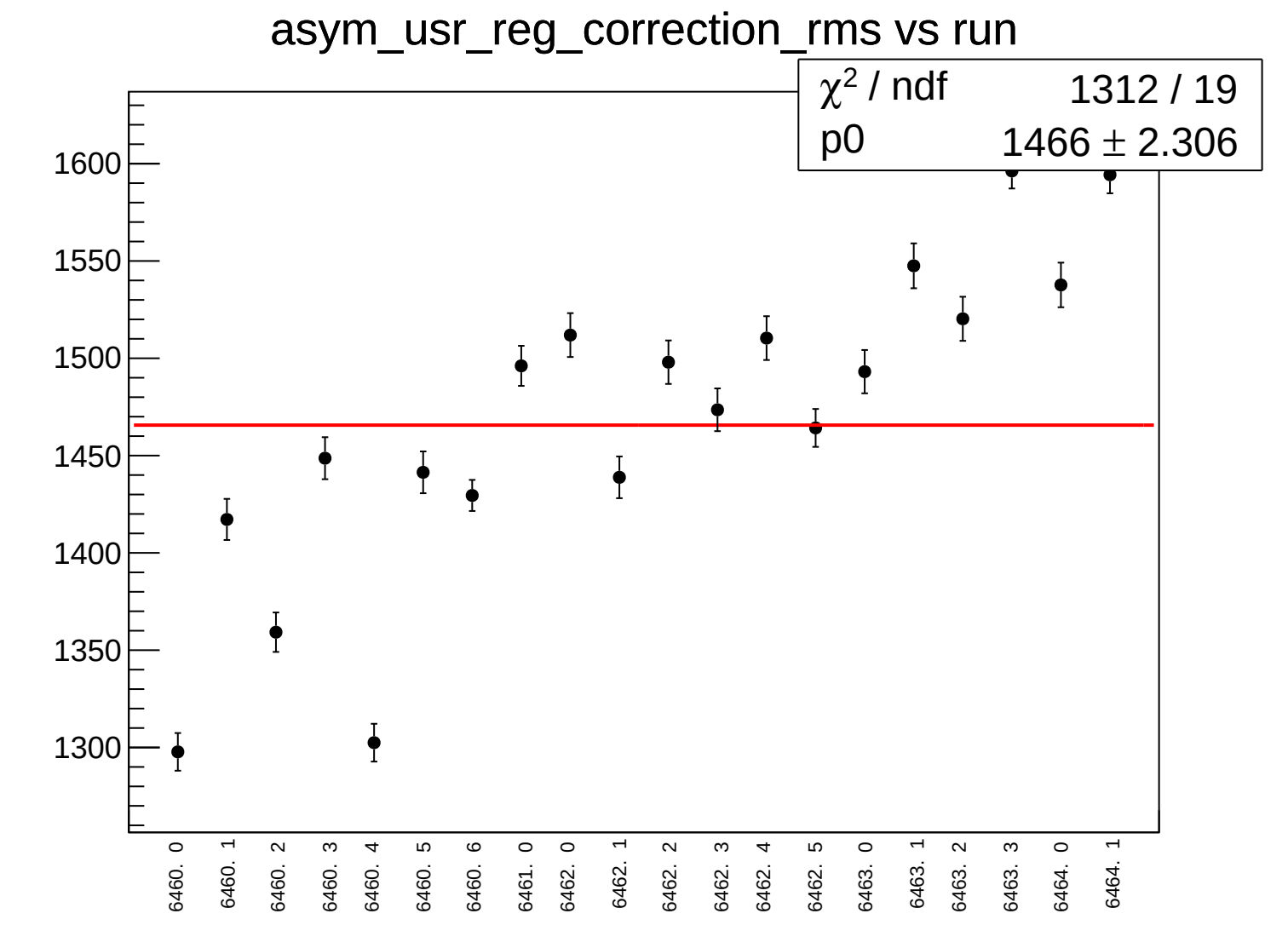

reg_asym_usr_mean vs run
χ² / ndf 8.885 / 19
p0 −182 ± 2460
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1

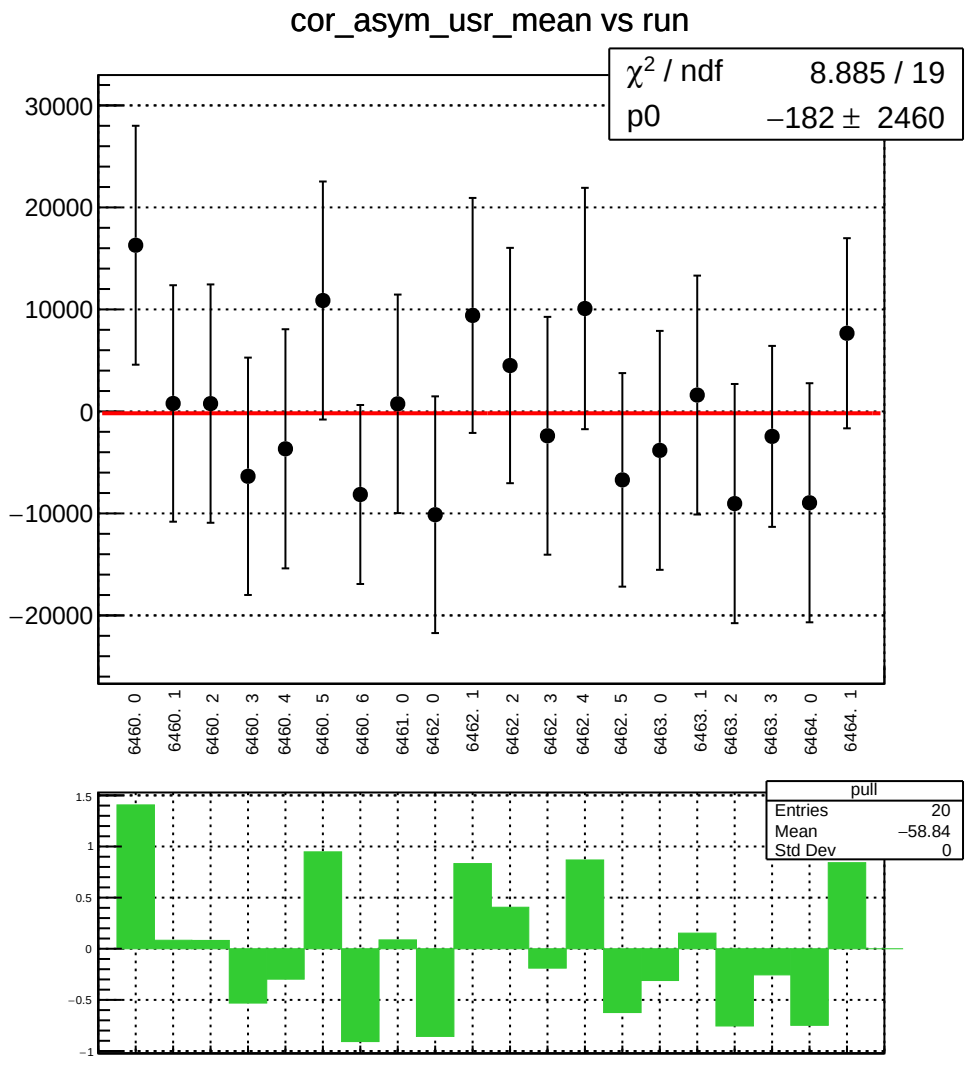

pull1D
Entries 20
Mean 0.01153
Std Dev 0.6664
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

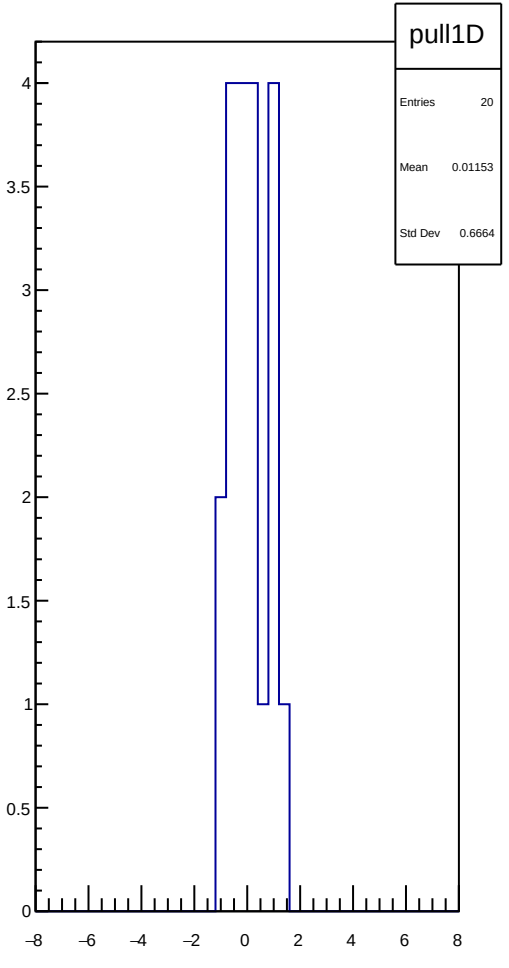

reg_asym_usr_rms vs run
χ² / ndf 14.55 / 19
p0 1107 ± 1.74
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

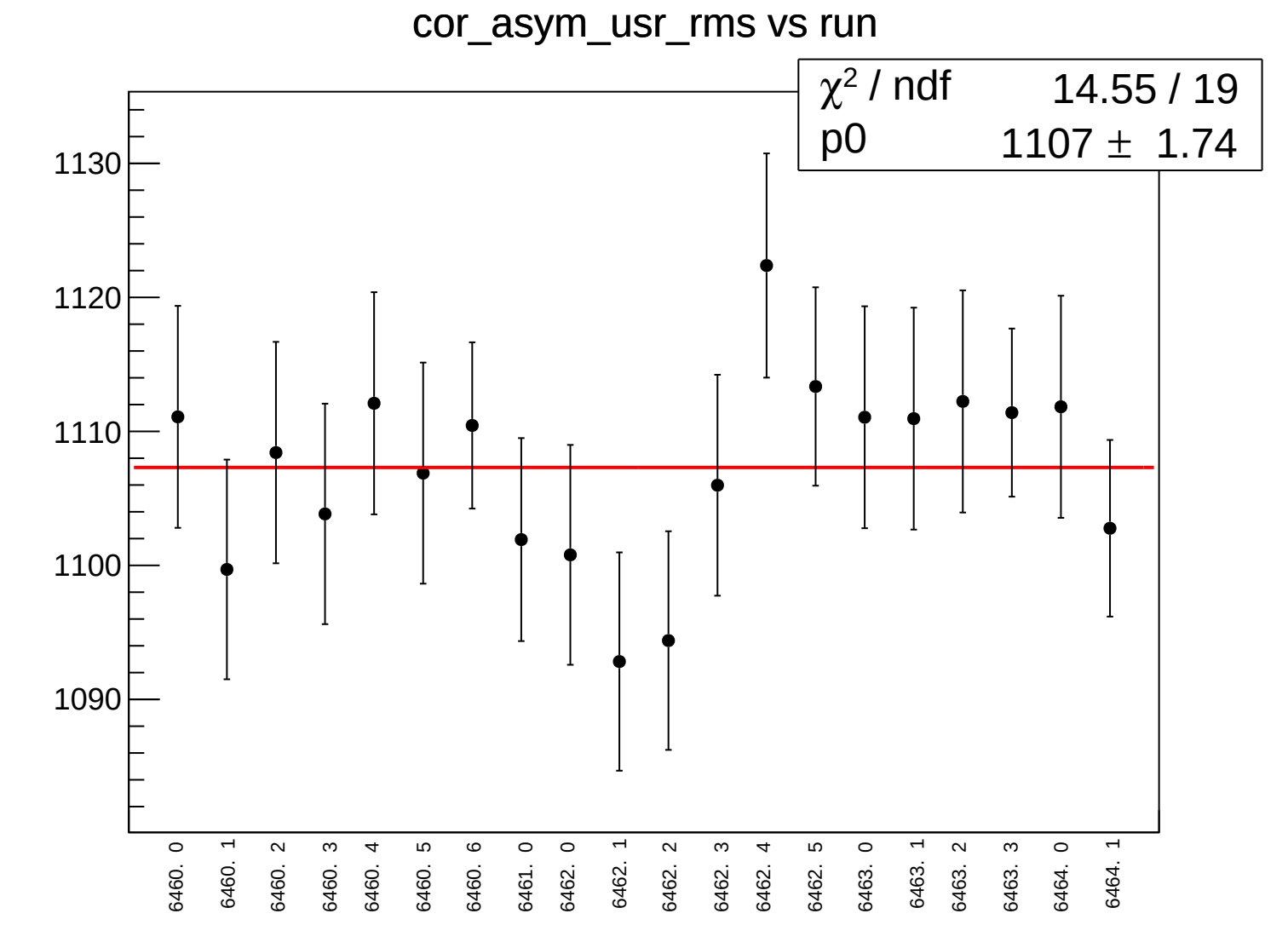

asym_usr_reg_correction_mean vs run
χ² / ndf 13.52 / 19
p0 3055 ± 3261
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 40.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

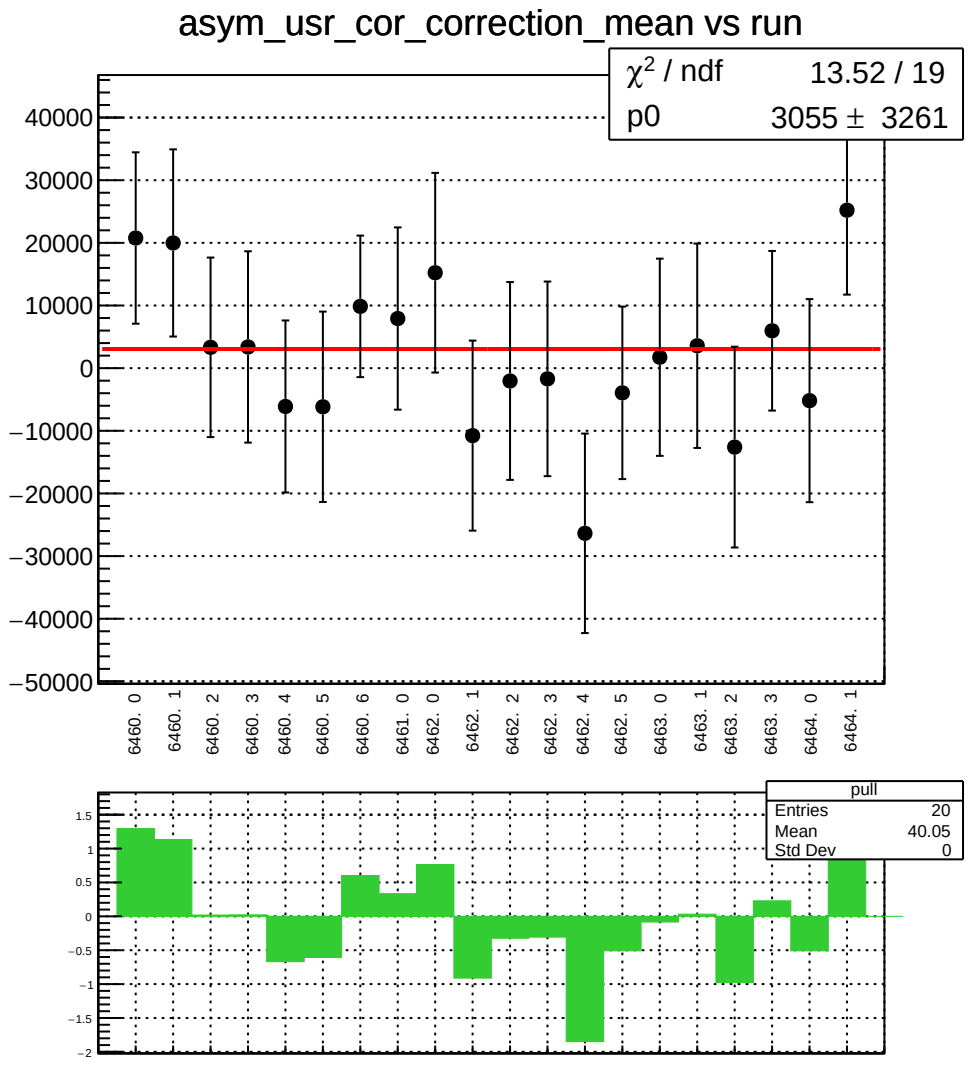

pull1D
Entries 20
Mean −0.03329
Std Dev 0.8214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

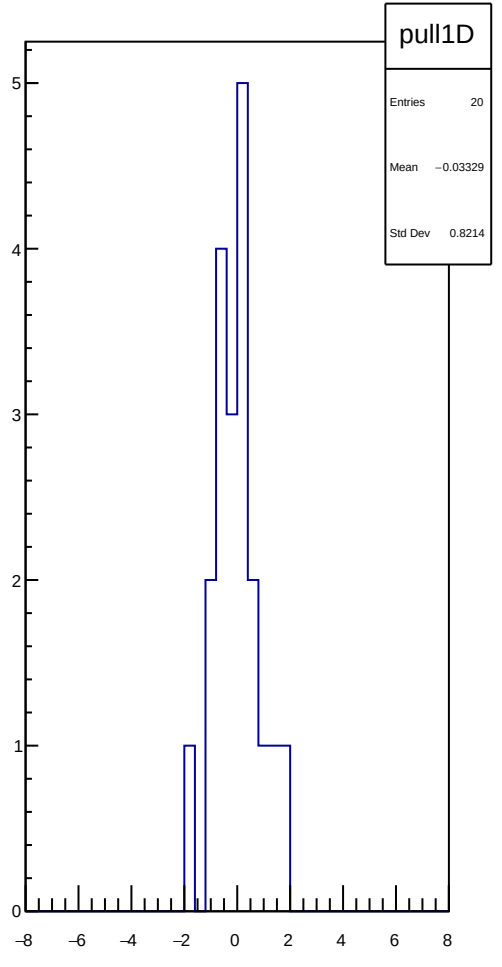

asym_usr_reg_correction_rms vs run
χ² / ndf 1312 / 19
p0 1466 ± 2.306
1600
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

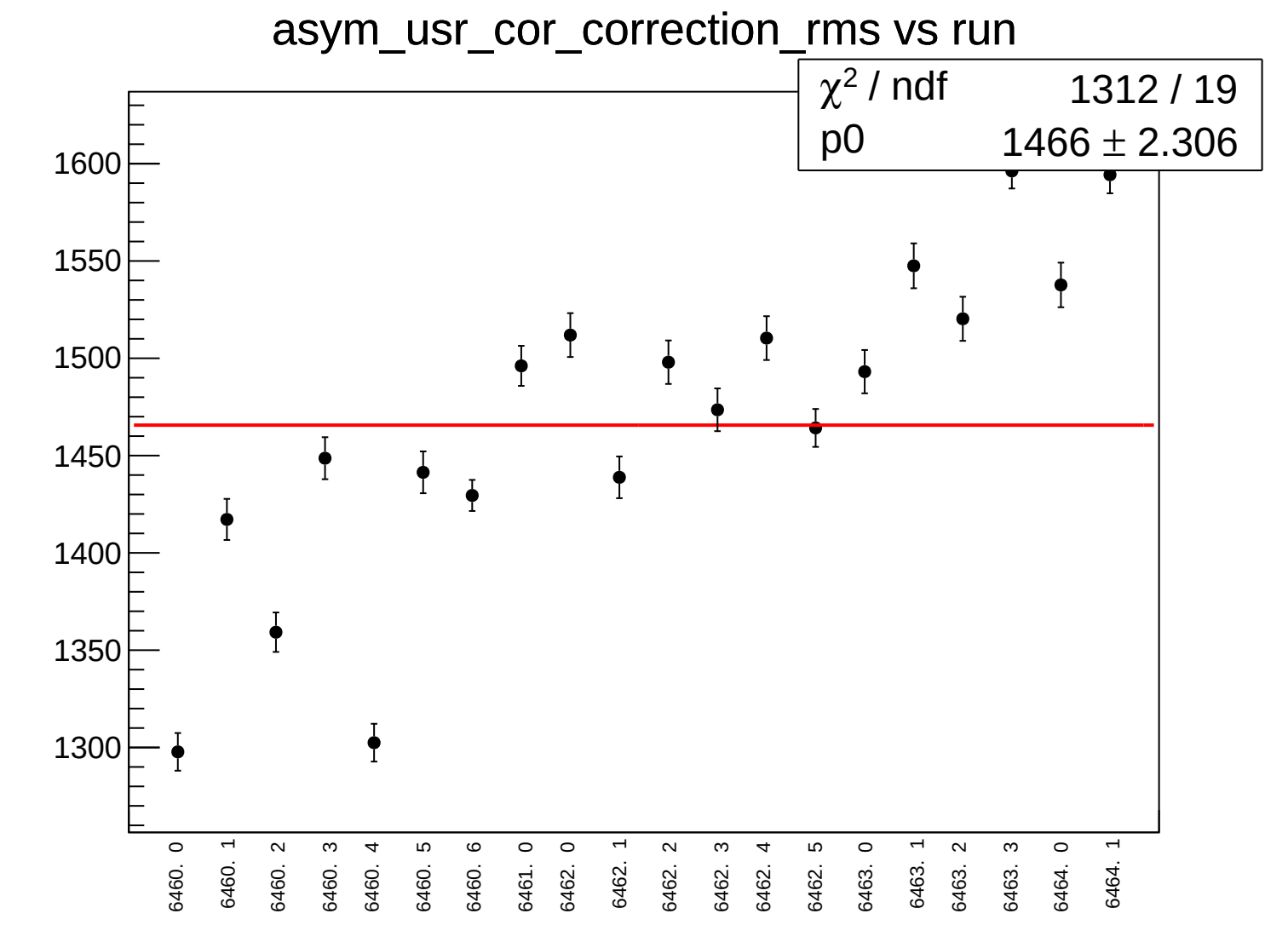

cor_asym_usr_mean vs run
χ² / ndf 8.885 / 19
p0 −182 ± 2460
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1

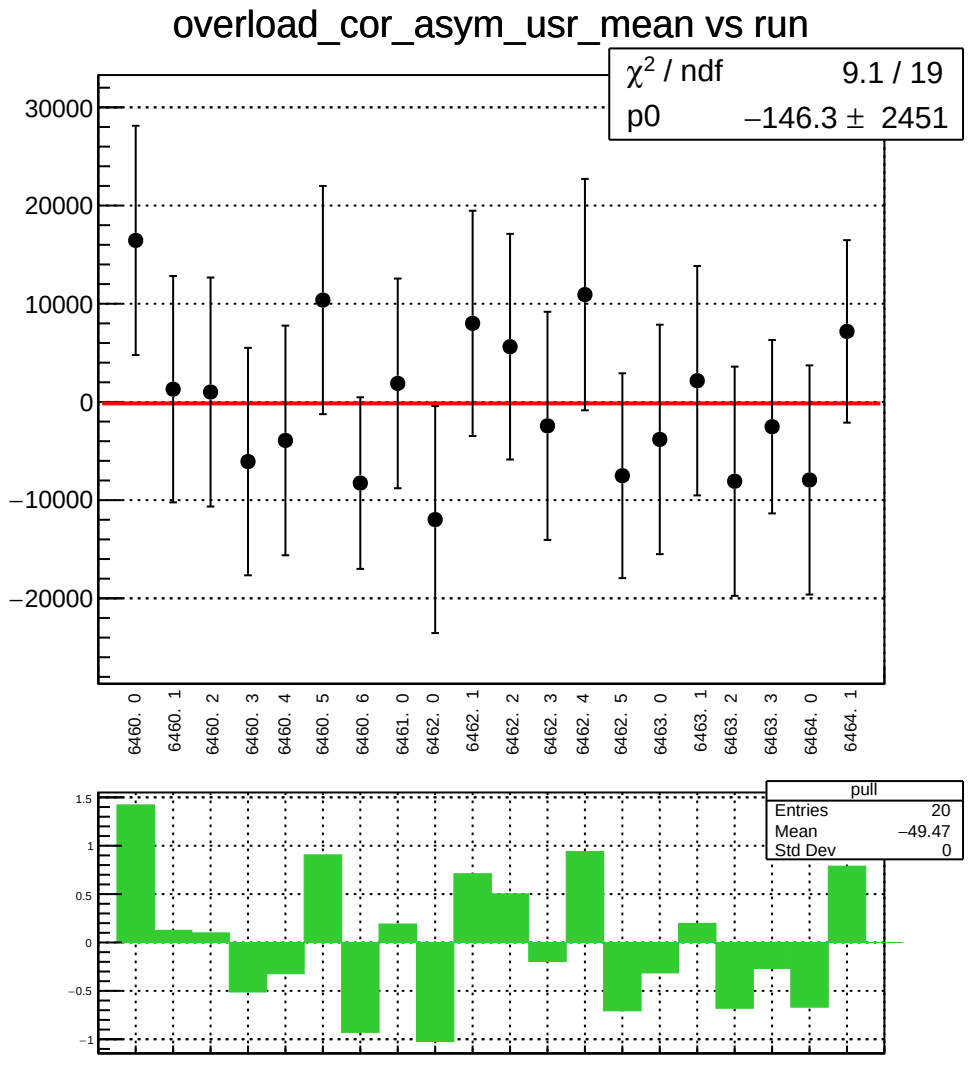

pull1D
Entries 20
Mean 0.01153
Std Dev 0.6664
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

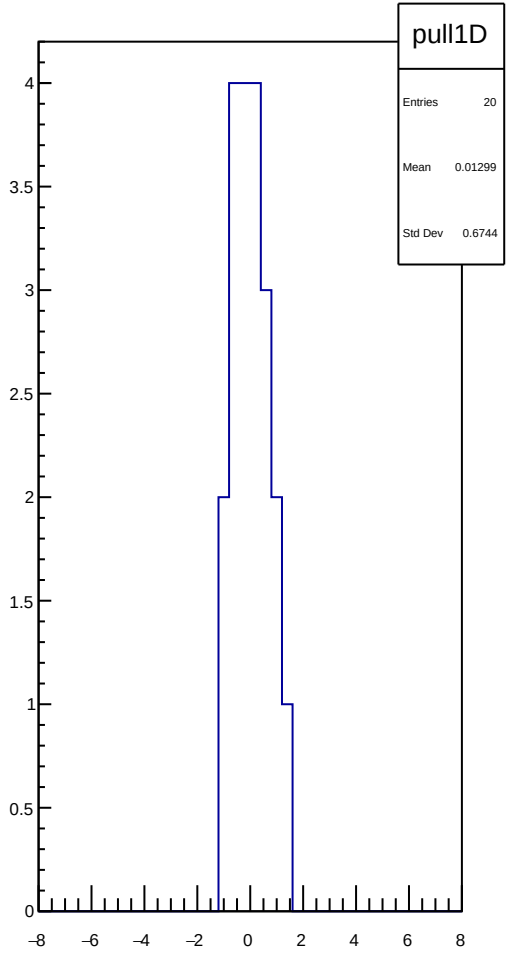

cor_asym_usr_rms vs run
χ² / ndf 14.55 / 19
p0 1107 ± 1.74
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

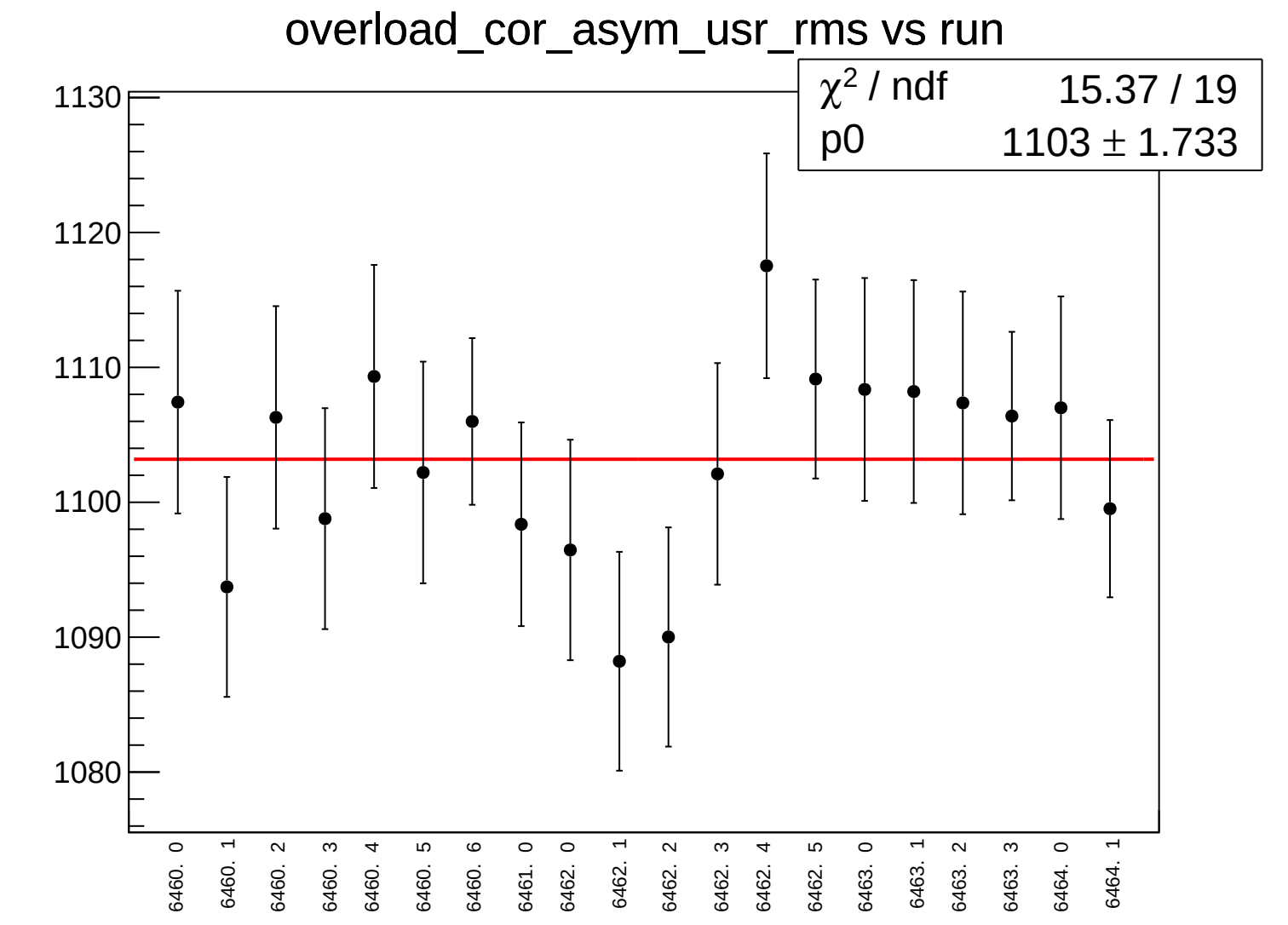

asym_usr_cor_correction_mean vs run
χ² / ndf 13.52 / 19
p0 3055 ± 3261
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 40.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

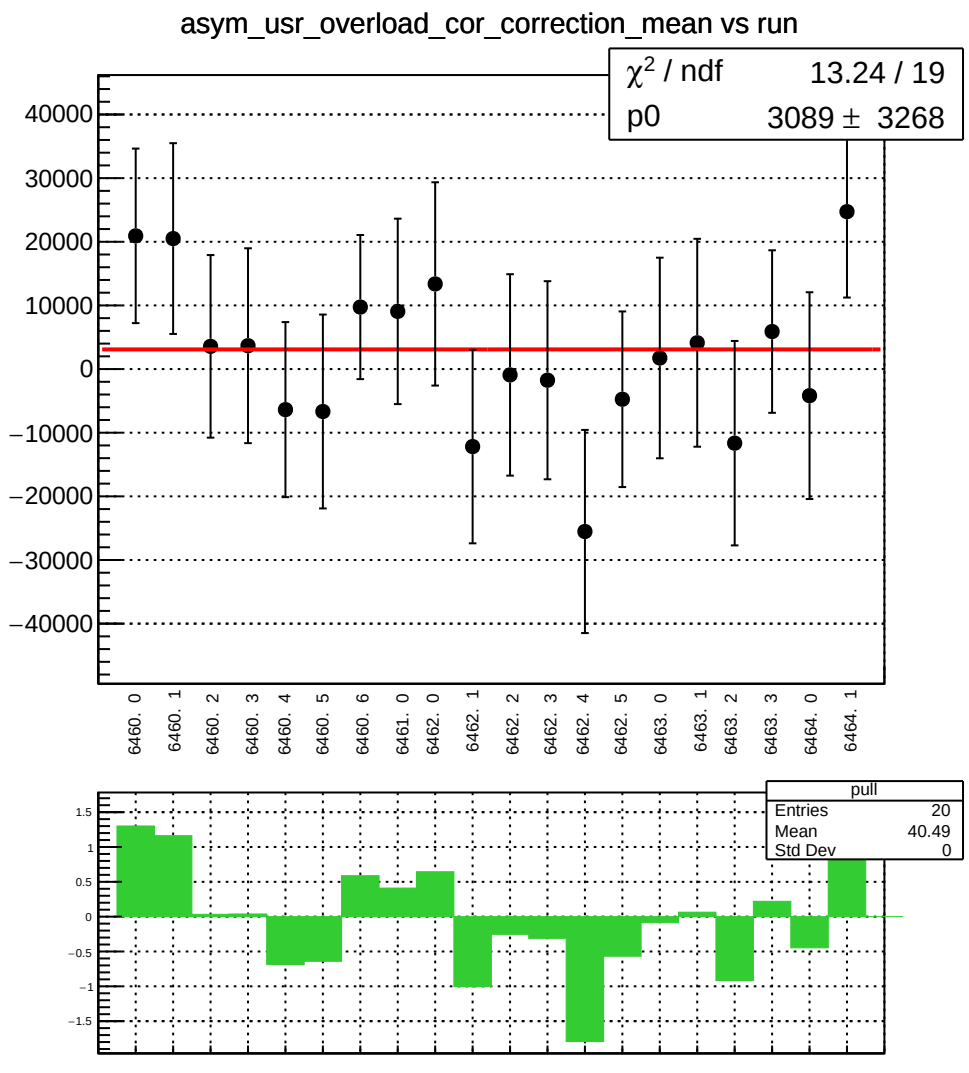

pull1D
Entries 20
Mean −0.03329
Std Dev 0.8214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

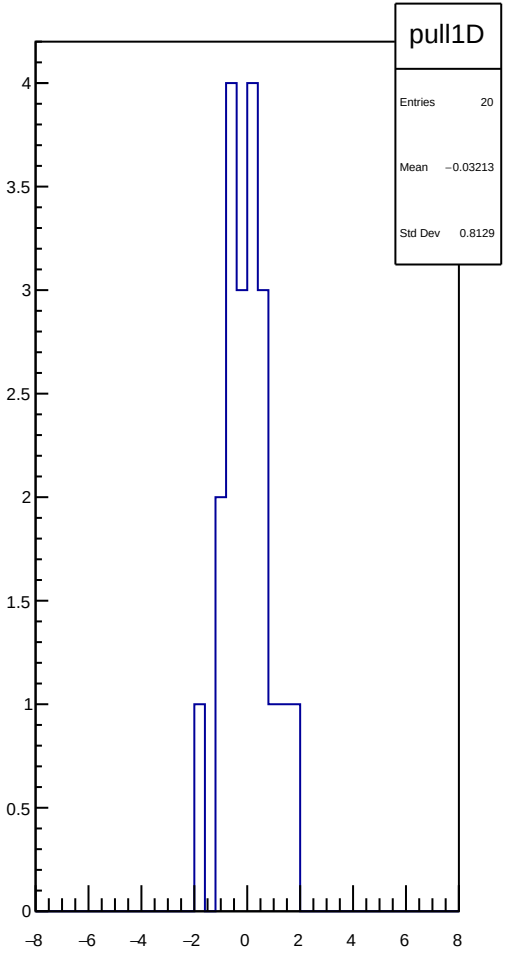

asym_usr_cor_correction_rms vs run
χ² / ndf 1312 / 19
p0 1466 ± 2.306
1600
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

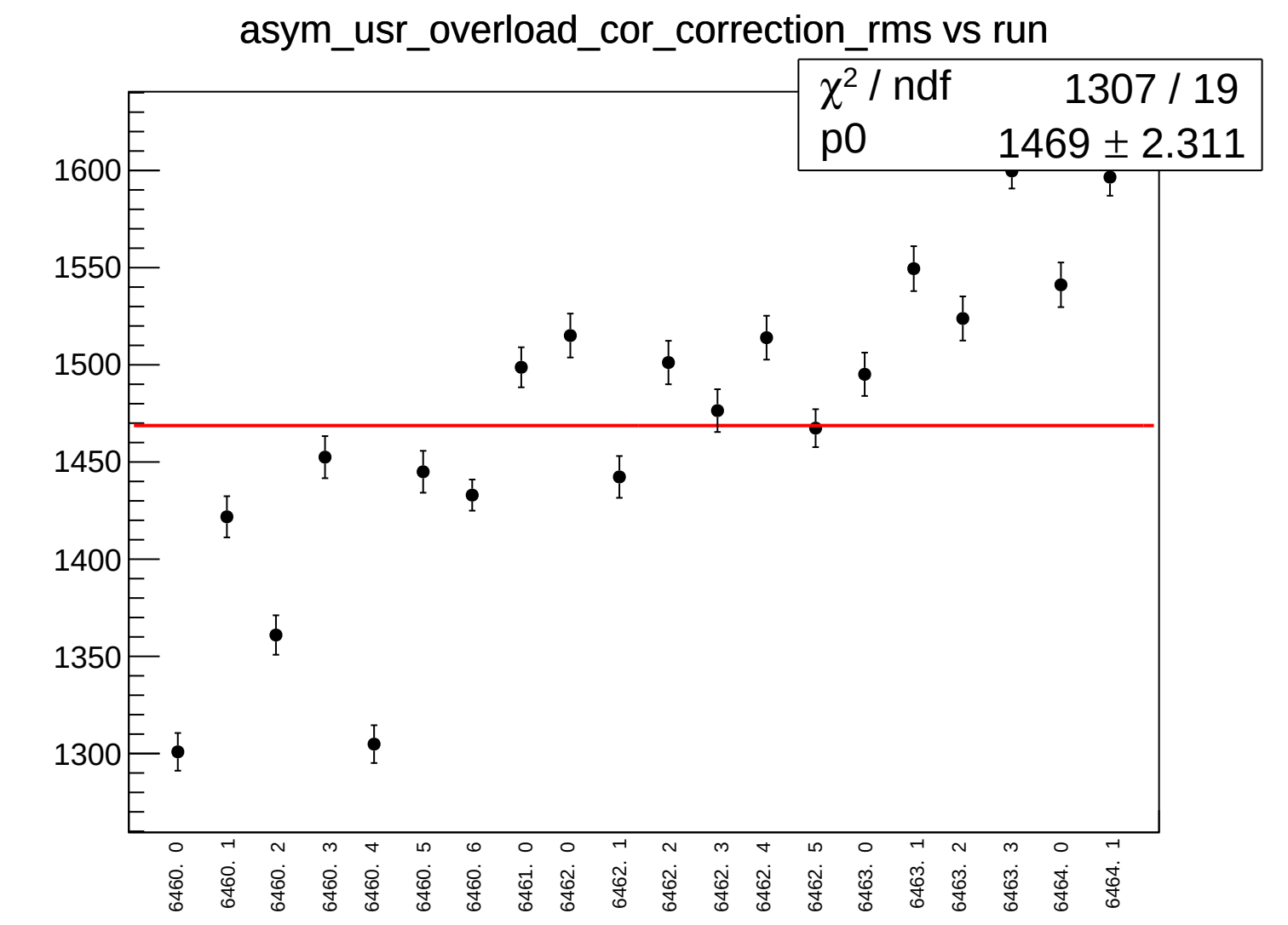

overload_cor_asym_usr_mean vs run
χ² / ndf 9.1 / 19
p0 −146.3 ± 2451
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1

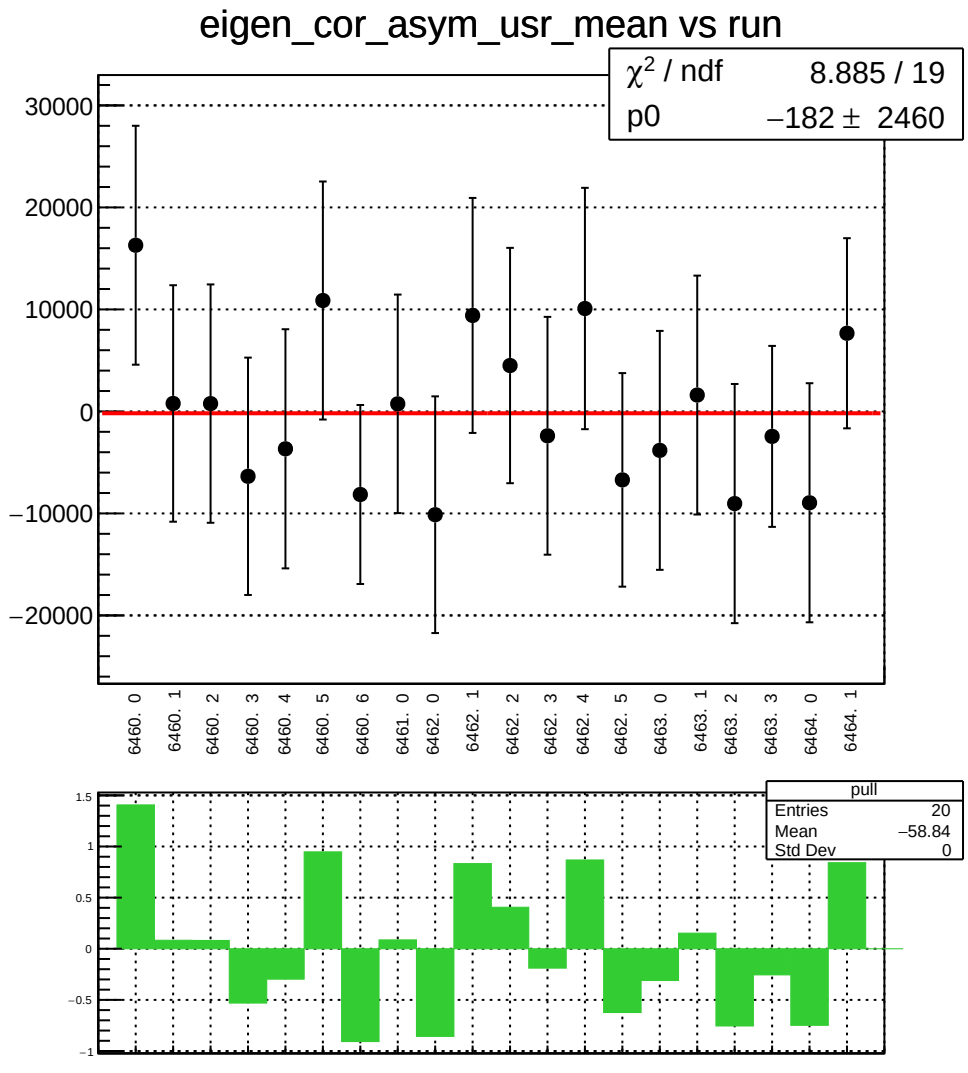

pull1D
Entries 20
Mean 0.01299
Std Dev 0.6744
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

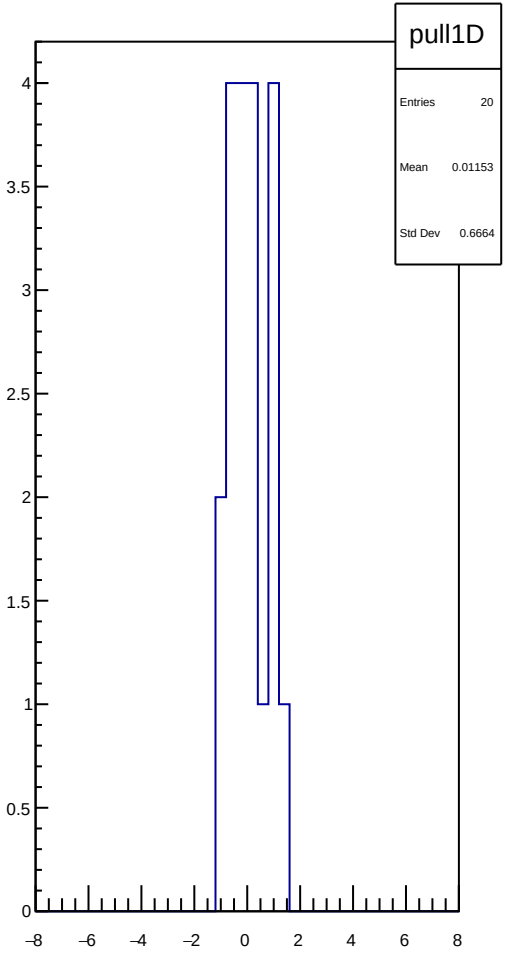

overload_cor_asym_usr_rms vs run
χ² / ndf 15.37 / 19
p0 1103 ± 1.733
1130
1120
1110
1100
1090
1080
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

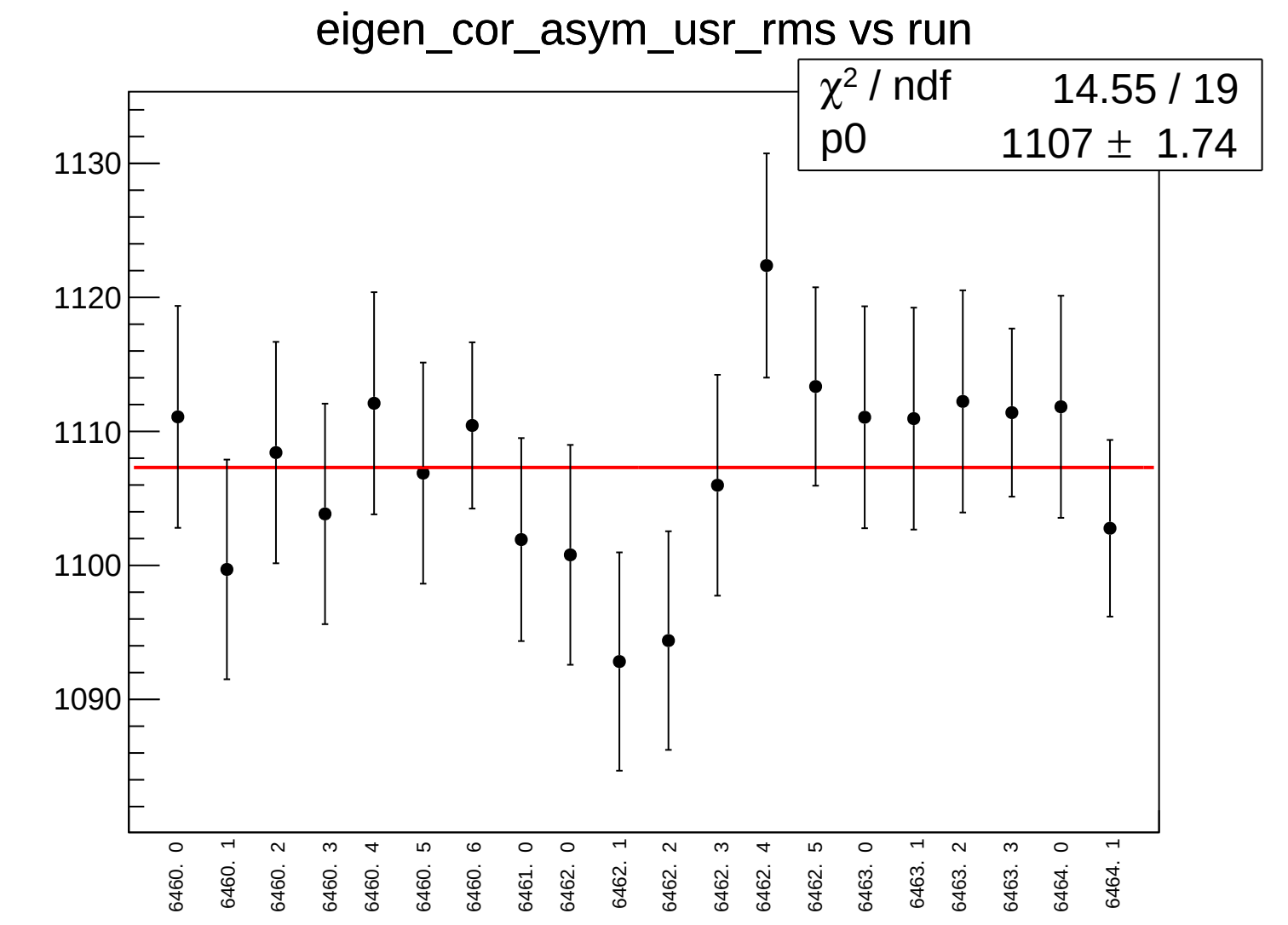

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 13.24 / 19
p0 3089 ± 3268
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 40.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

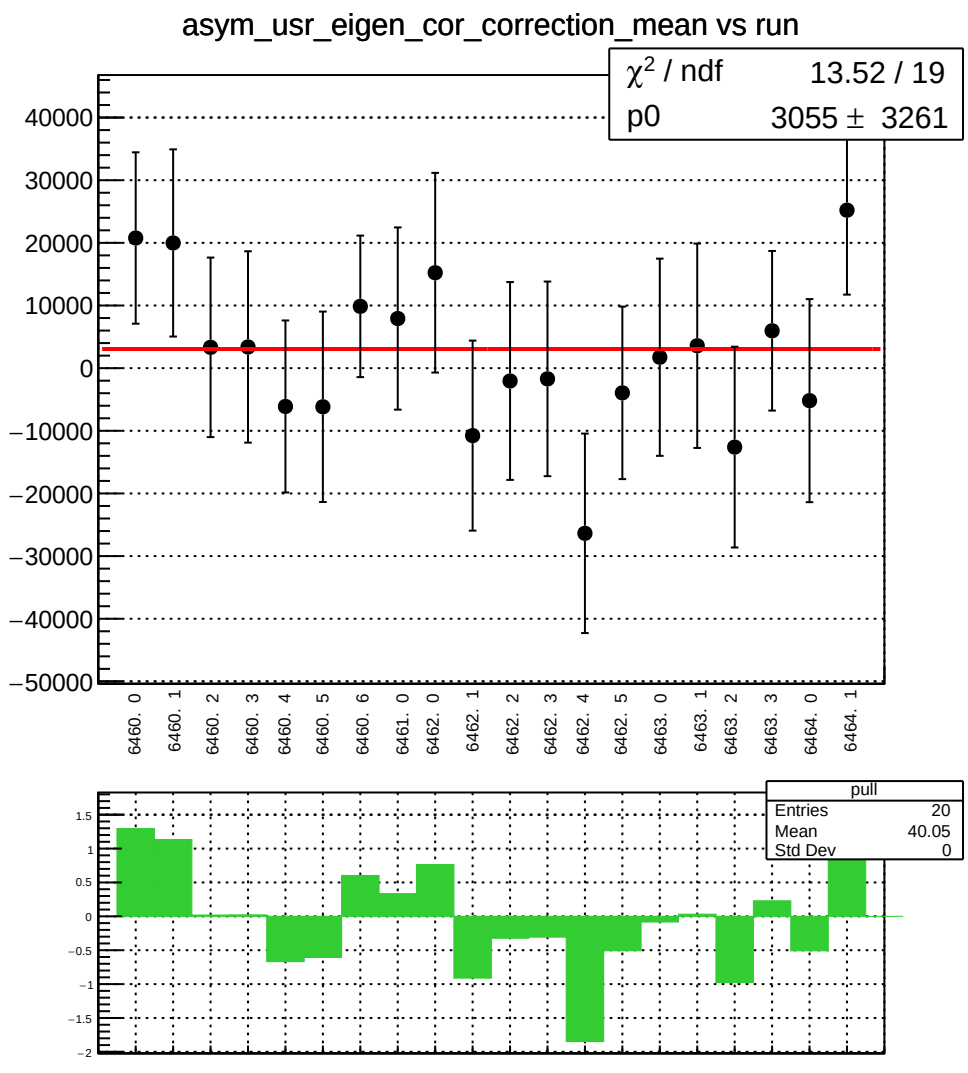

pull1D
Entries 20
Mean −0.03213
Std Dev 0.8129
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

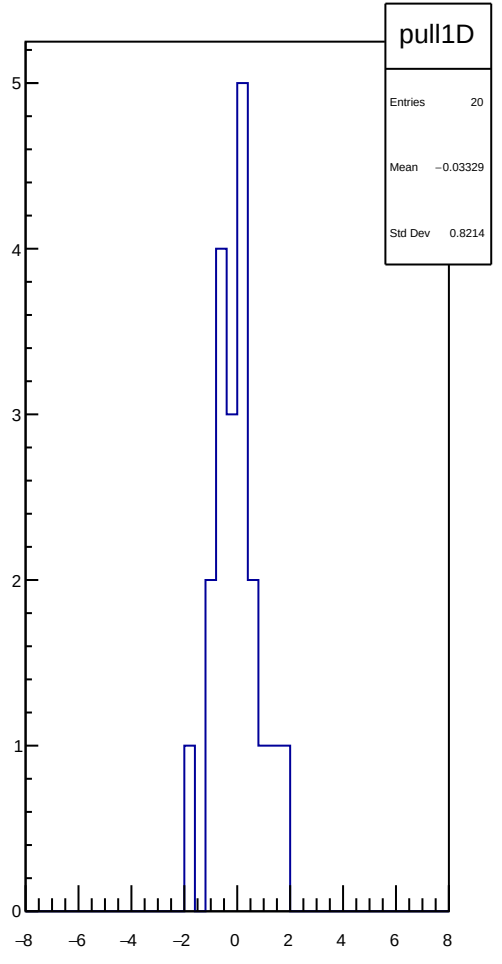

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1307 / 19
p0 1469 ± 2.311
1600
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

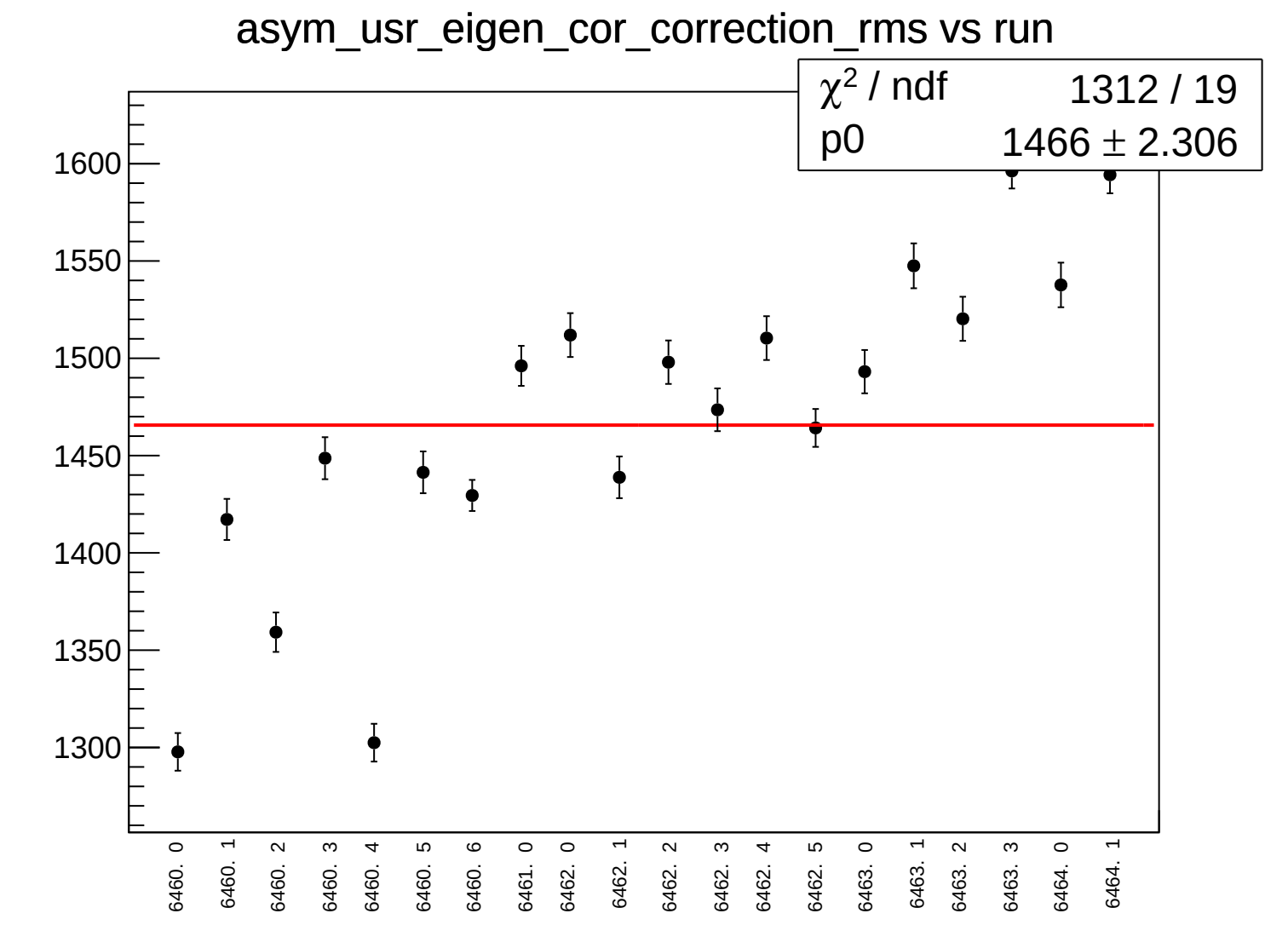

eigen_cor_asym_usr_mean vs run
χ² / ndf 8.885 / 19
p0 −182 ± 2460
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1

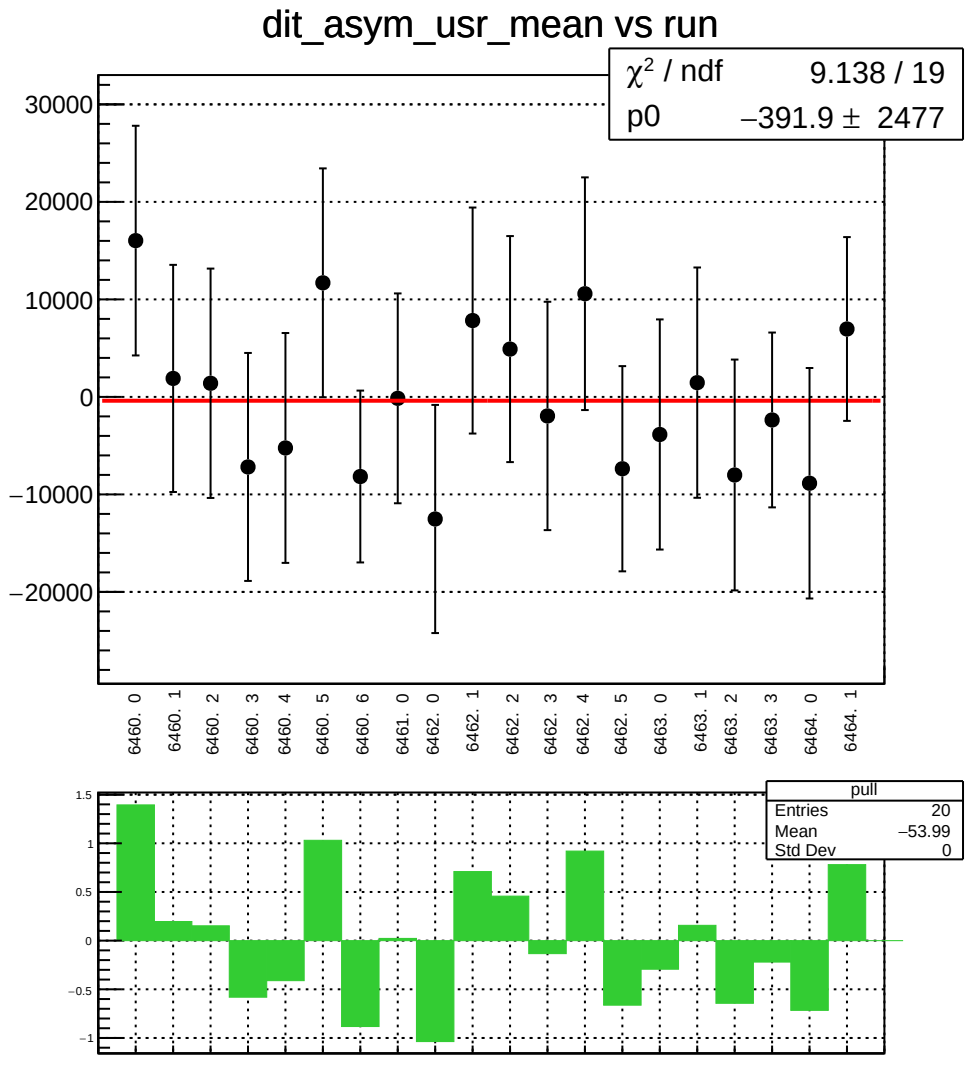

pull1D
Entries 20
Mean 0.01153
Std Dev 0.6664
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

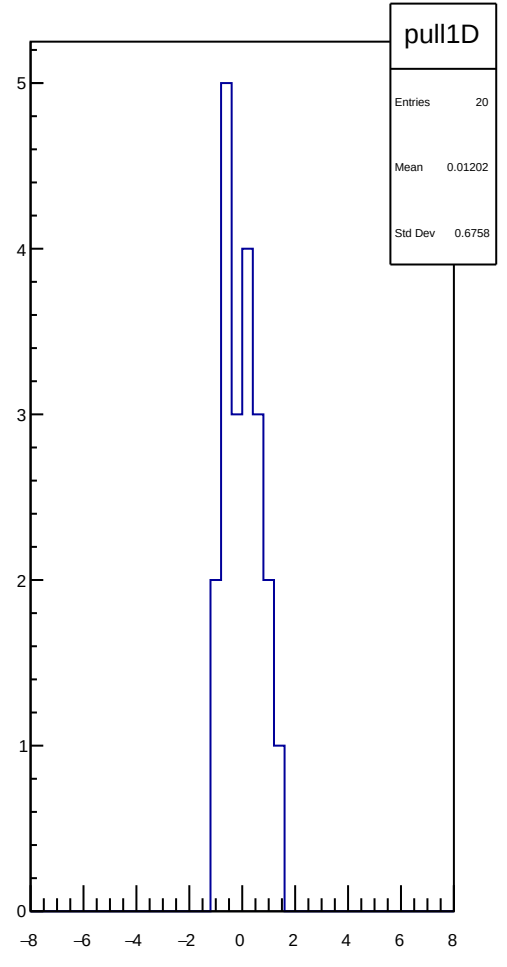

eigen_cor_asym_usr_rms vs run
χ² / ndf 14.55 / 19
p0 1107 ± 1.74
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

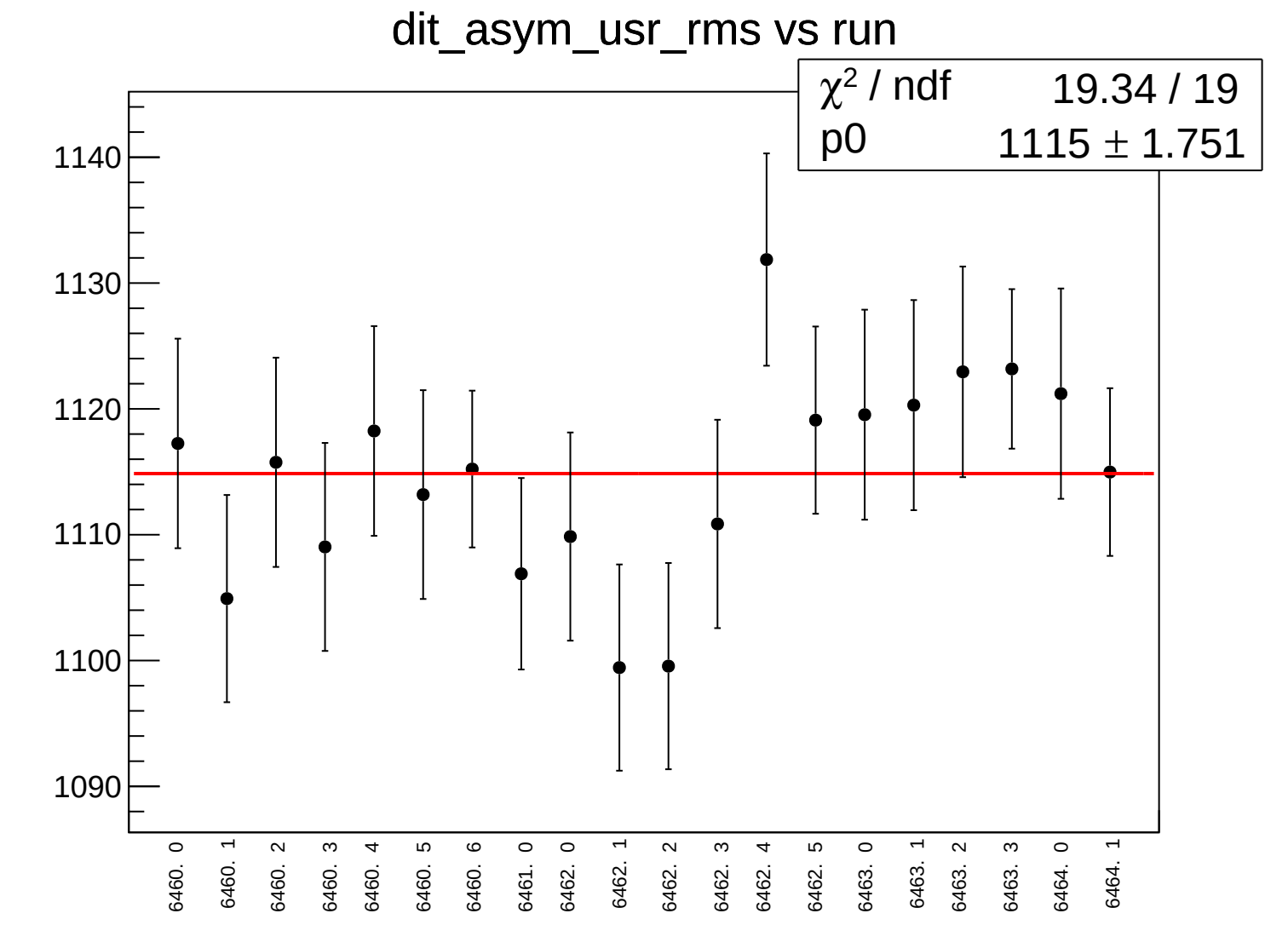

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 13.52 / 19
p0 3055 ± 3261
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 40.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

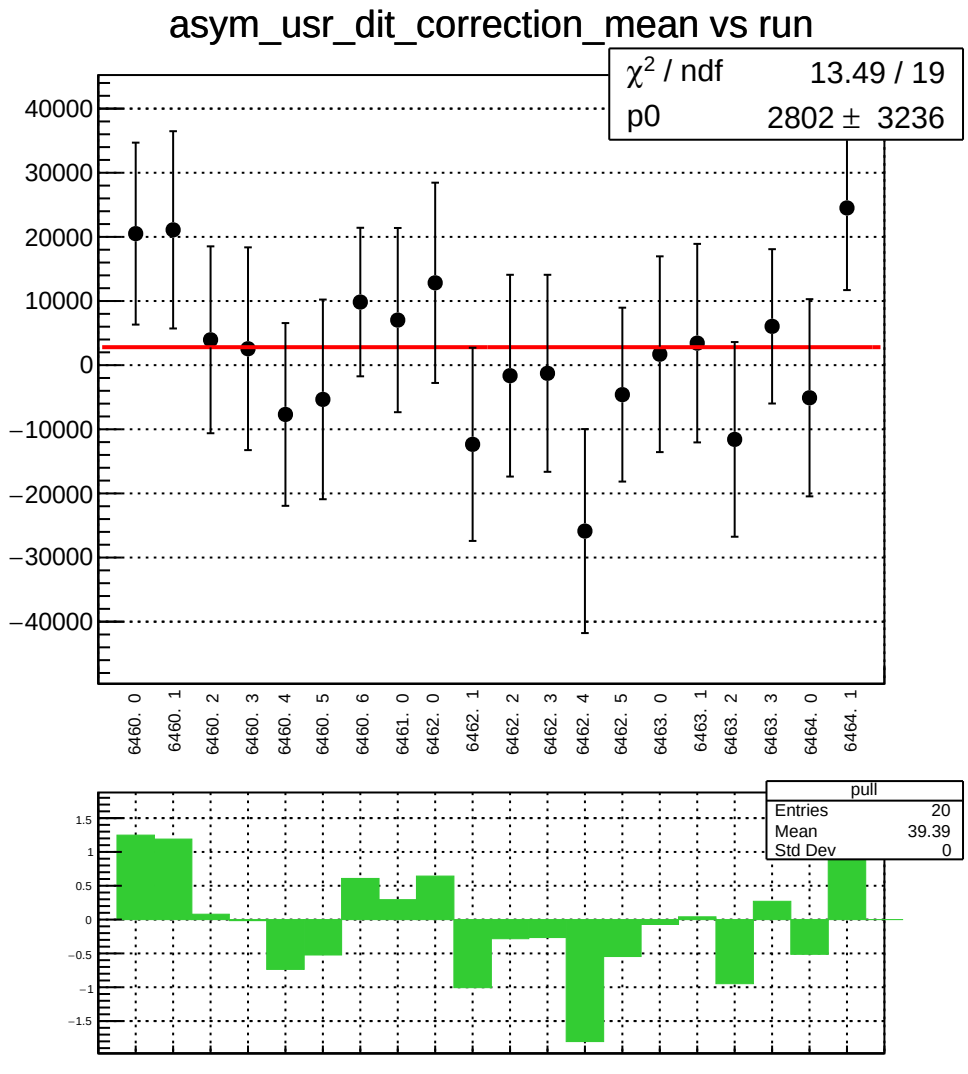

pull1D
Entries 20
Mean −0.03329
Std Dev 0.8214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

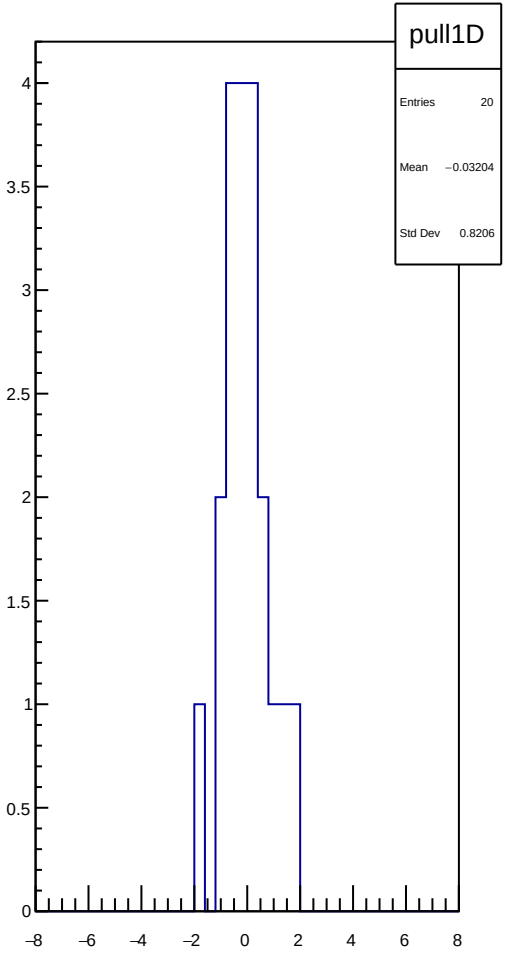

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1312 / 19
p0 1466 ± 2.306
1600
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

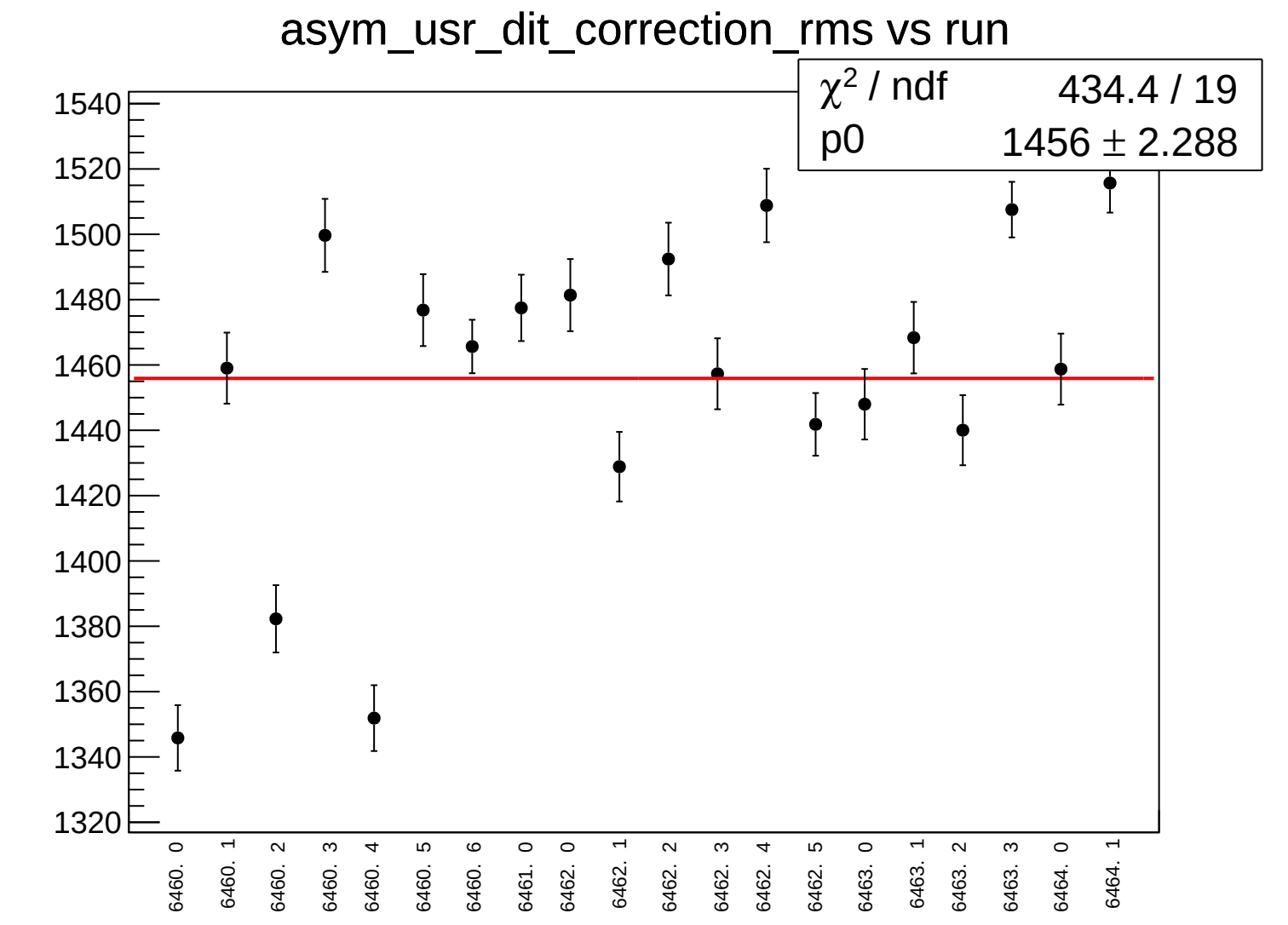

dit_asym_usr_mean vs run
χ² / ndf 9.138 / 19
p0 −391.9 ± 2477
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1

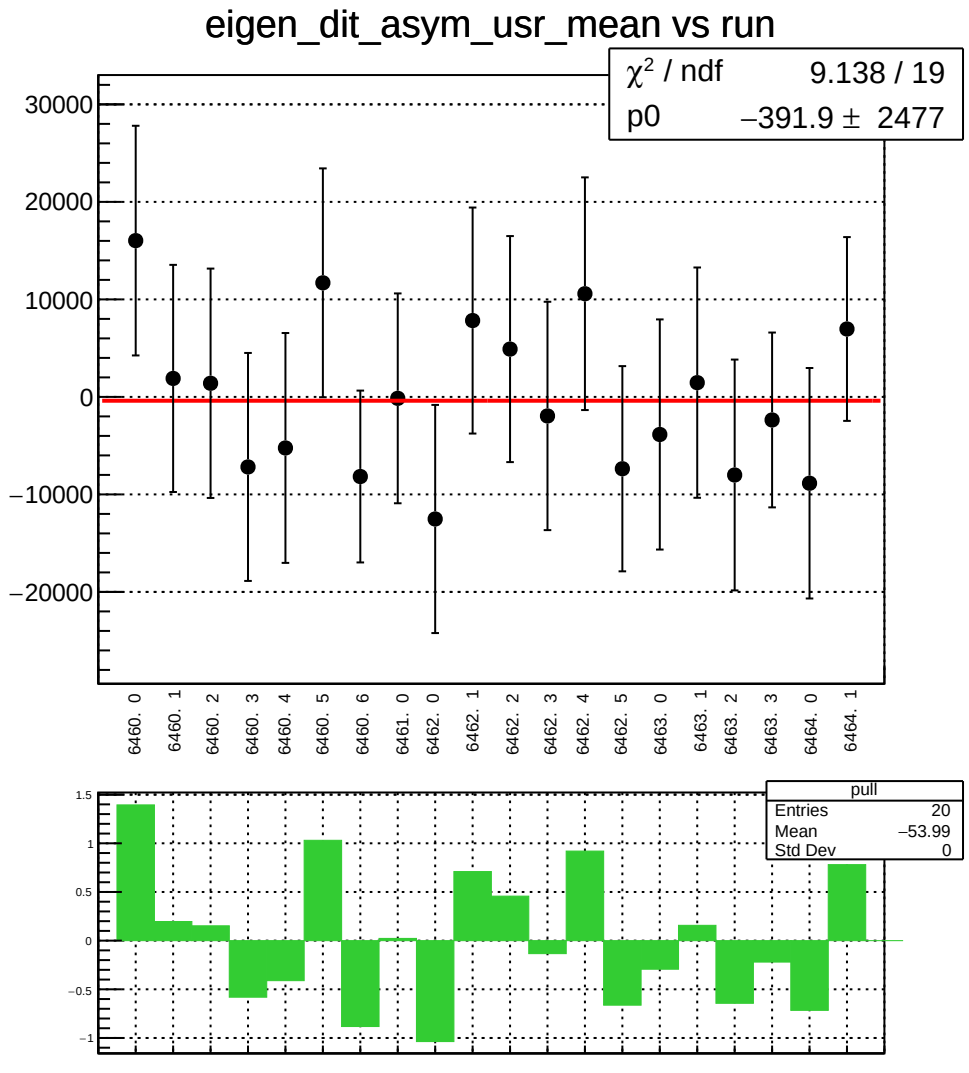

pull1D
Entries 20
Mean 0.01202
Std Dev 0.6758
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

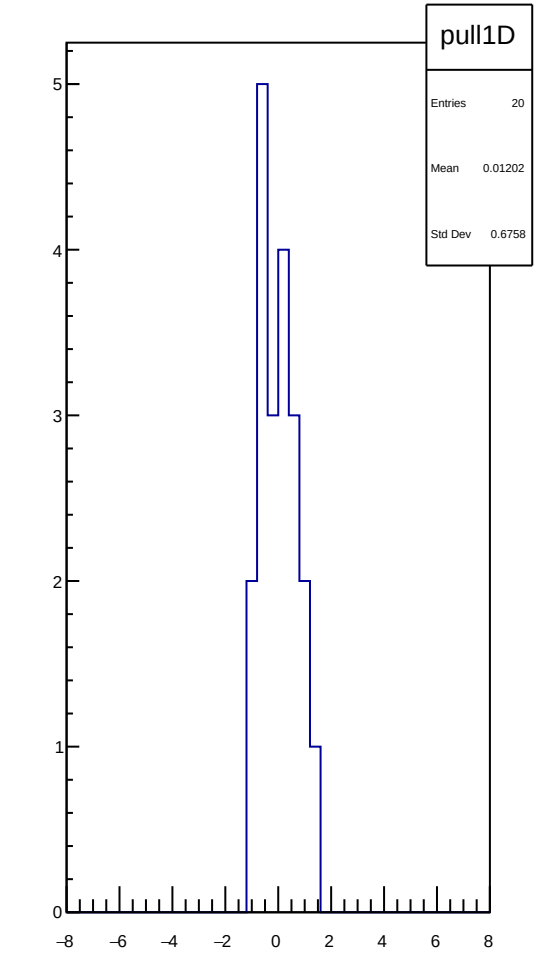

dit_asym_usr_rms vs run
χ² / ndf 19.34 / 19
p0 1115 ± 1.751
1140
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

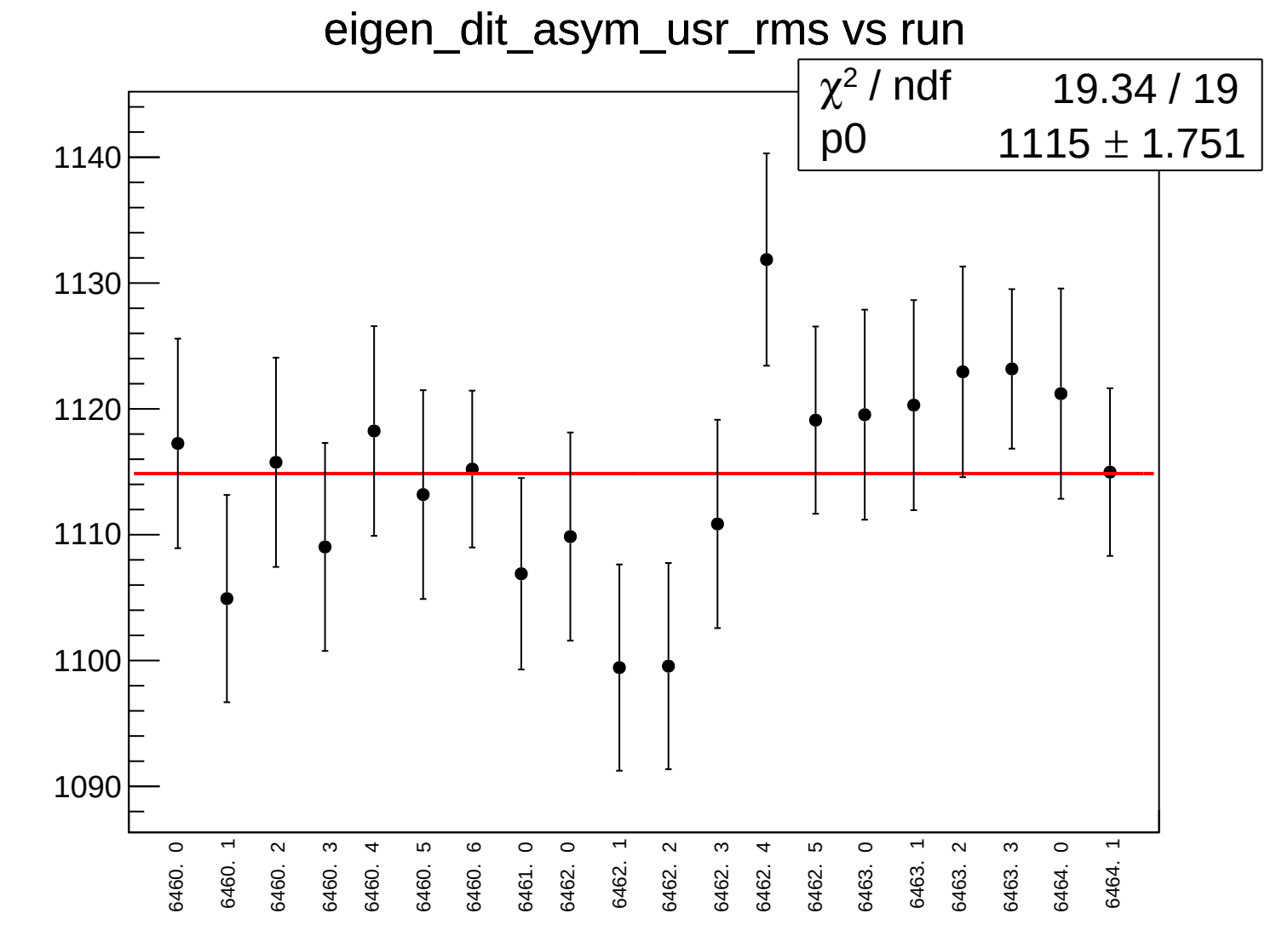

asym_usr_dit_correction_mean vs run
χ² / ndf 13.49 / 19
p0 2802 ± 3236
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

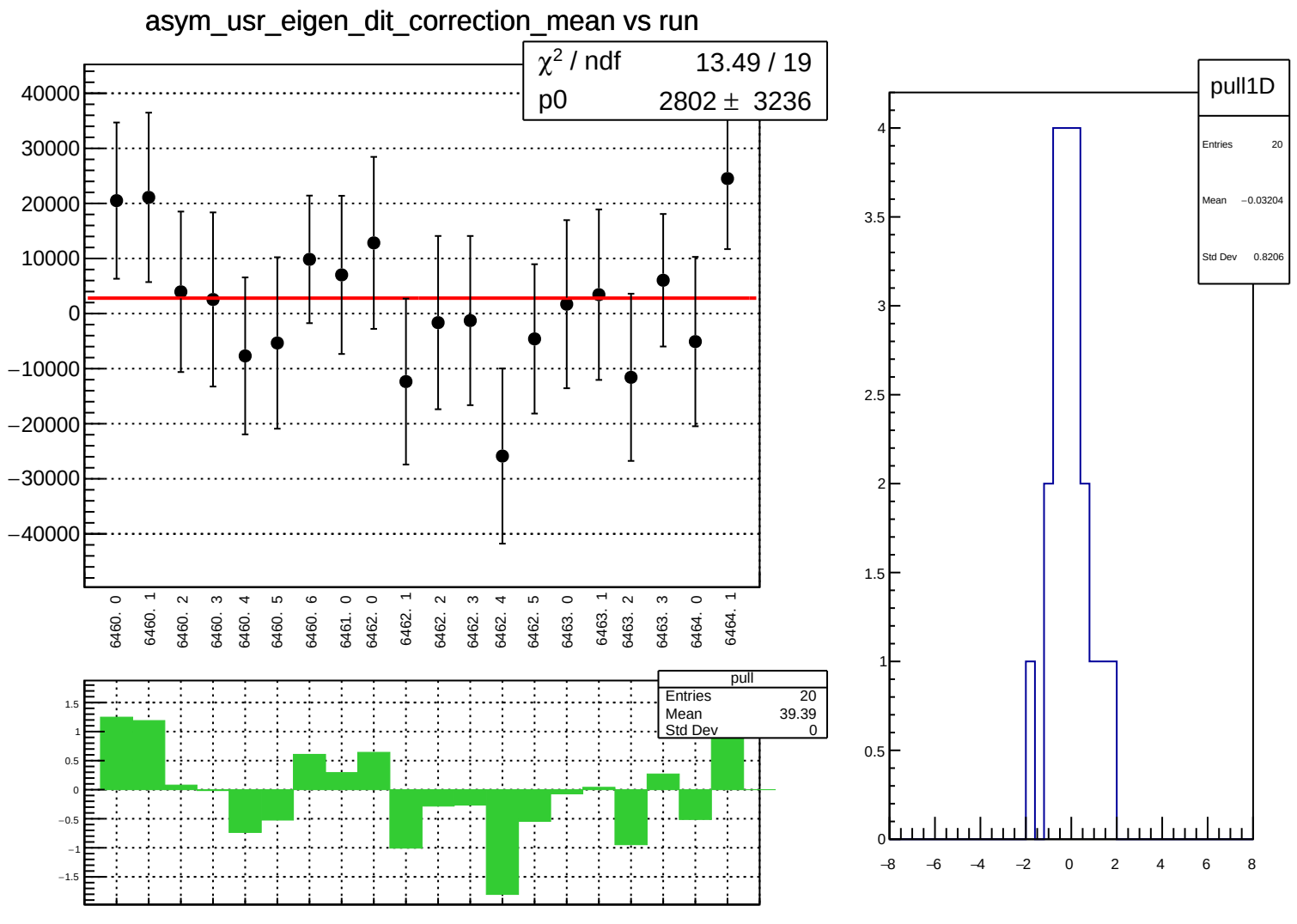

pull1D
Entries 20
Mean −0.03204
Std Dev 0.8206
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

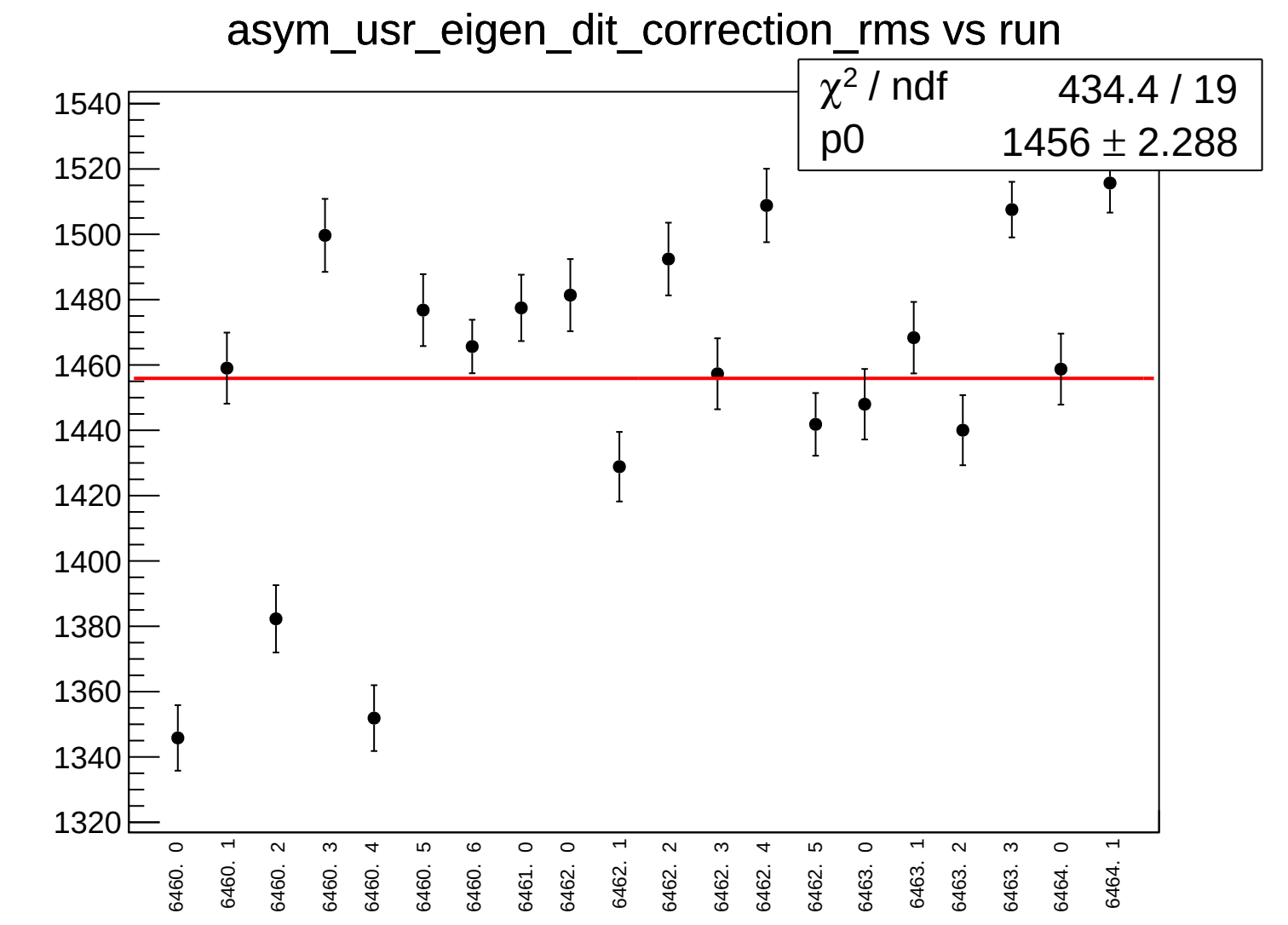

asym_usr_dit_correction_rms vs run
χ² / ndf 434.4 / 19
p0 1456 ± 2.288
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

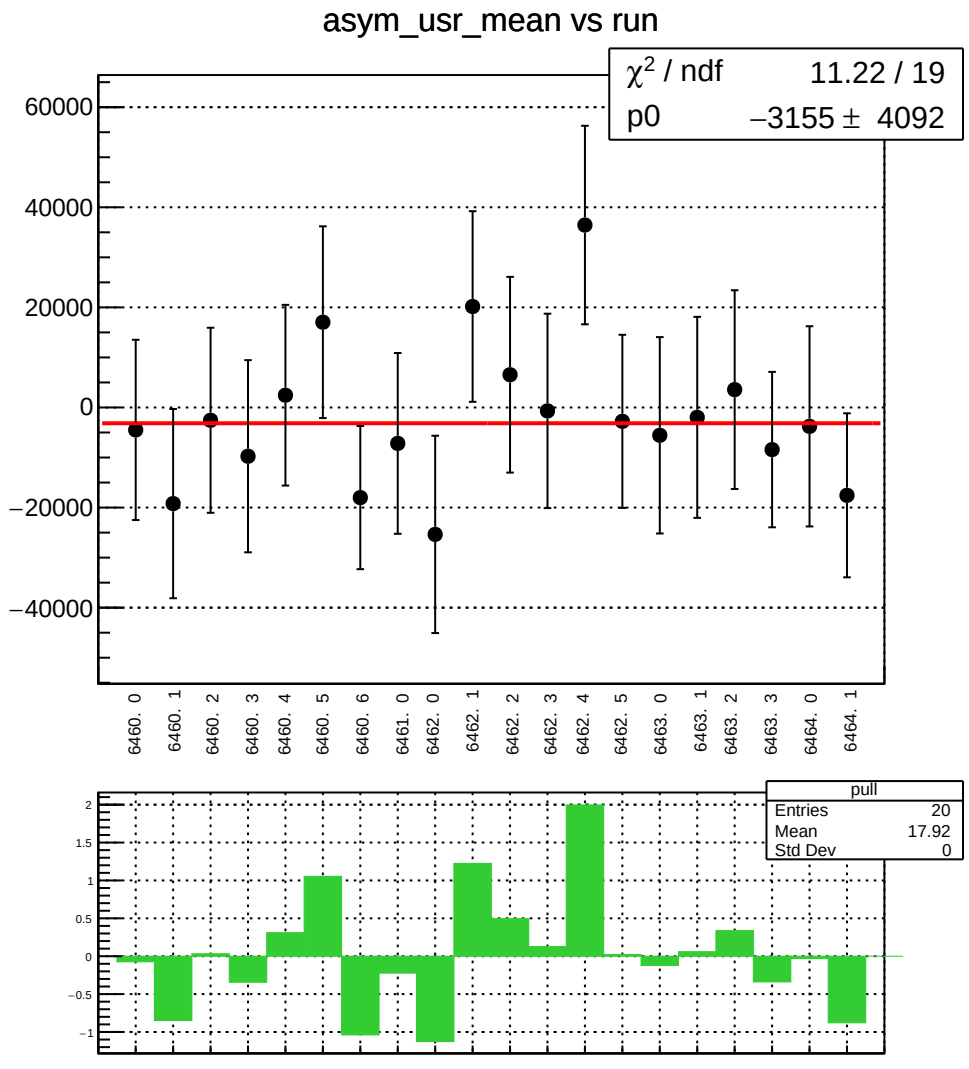

eigen_dit_asym_usr_mean vs run
χ² / ndf 9.138 / 19
p0 −391.9 ± 2477
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1

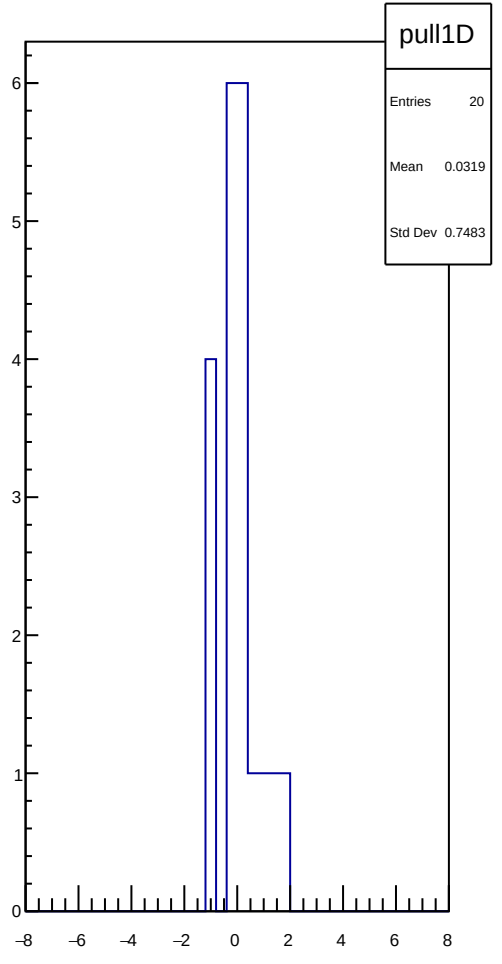

pull1D
Entries 20
Mean 0.01202
Std Dev 0.6758
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

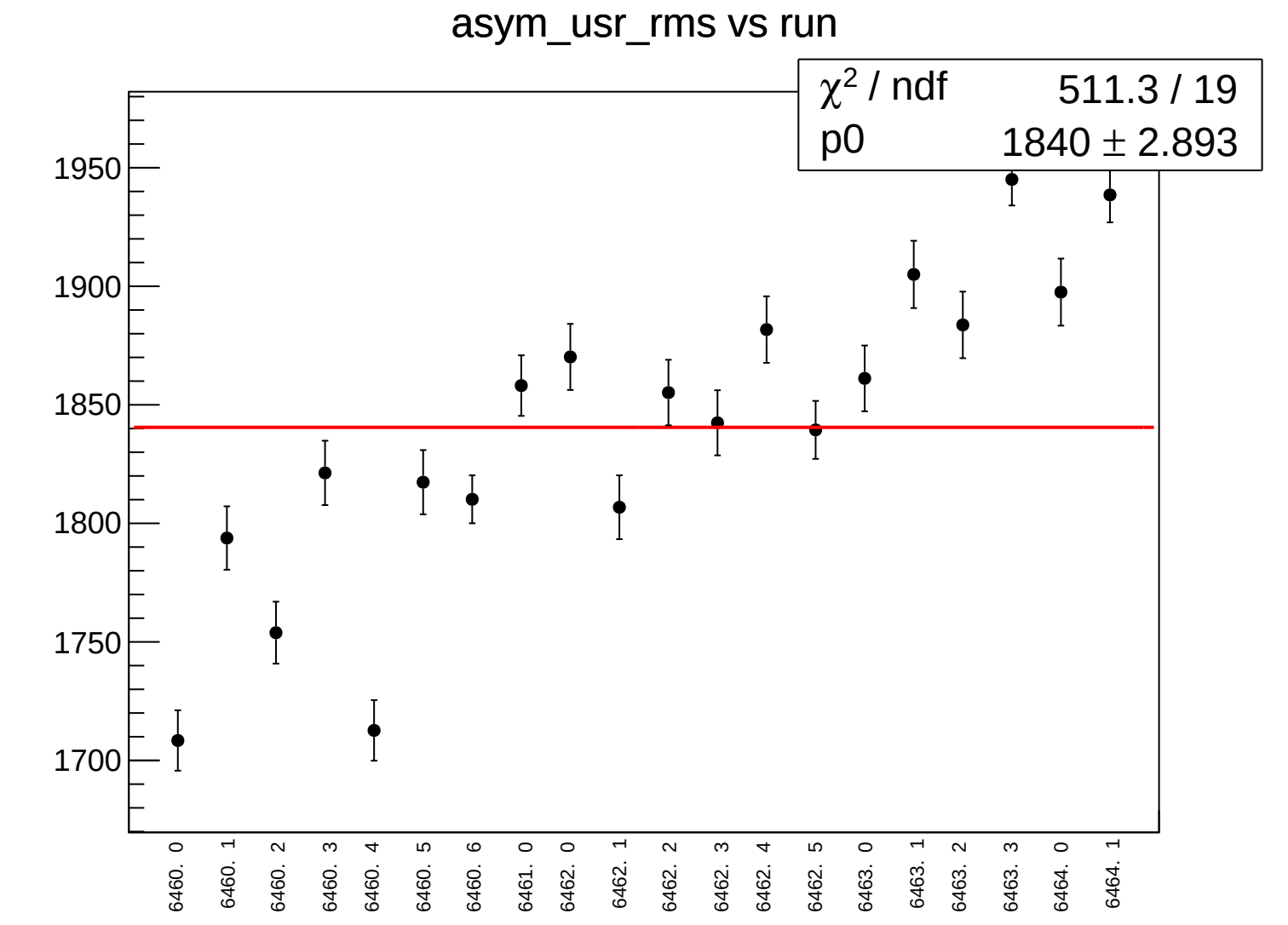

eigen_dit_asym_usr_rms vs run
χ² / ndf 19.34 / 19
p0 1115 ± 1.751
1140
1130
1120
1110
1100
1090
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

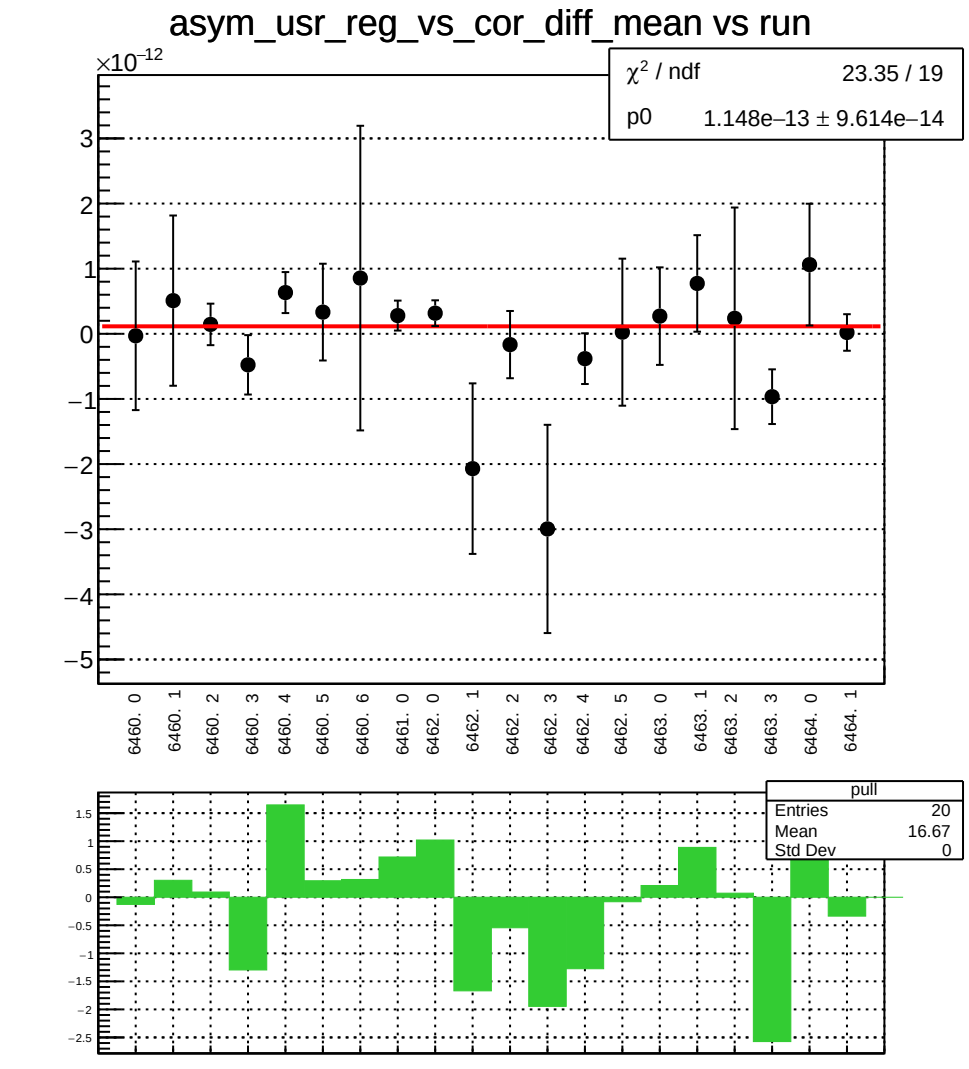

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 13.49 / 19
p0 2802 ± 3236
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03204
Std Dev 0.8206
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

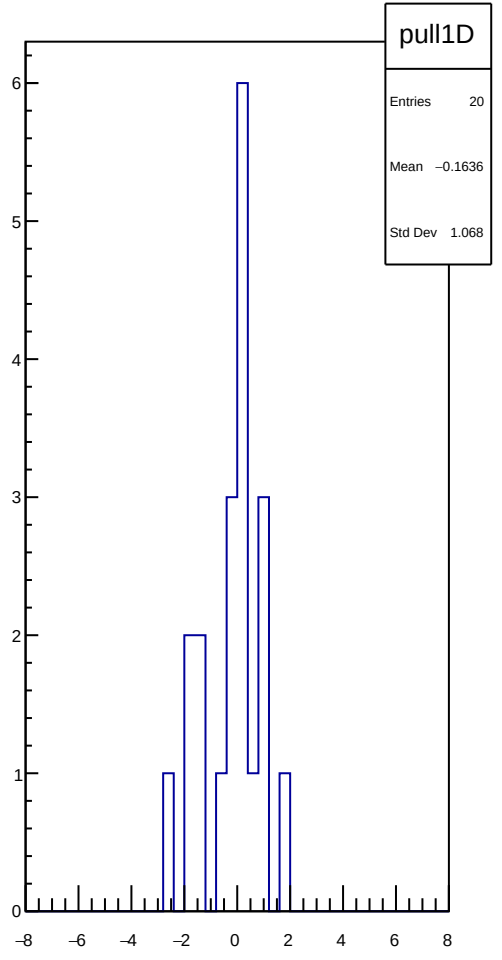

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 434.4 / 19
p0 1456 ± 2.288
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

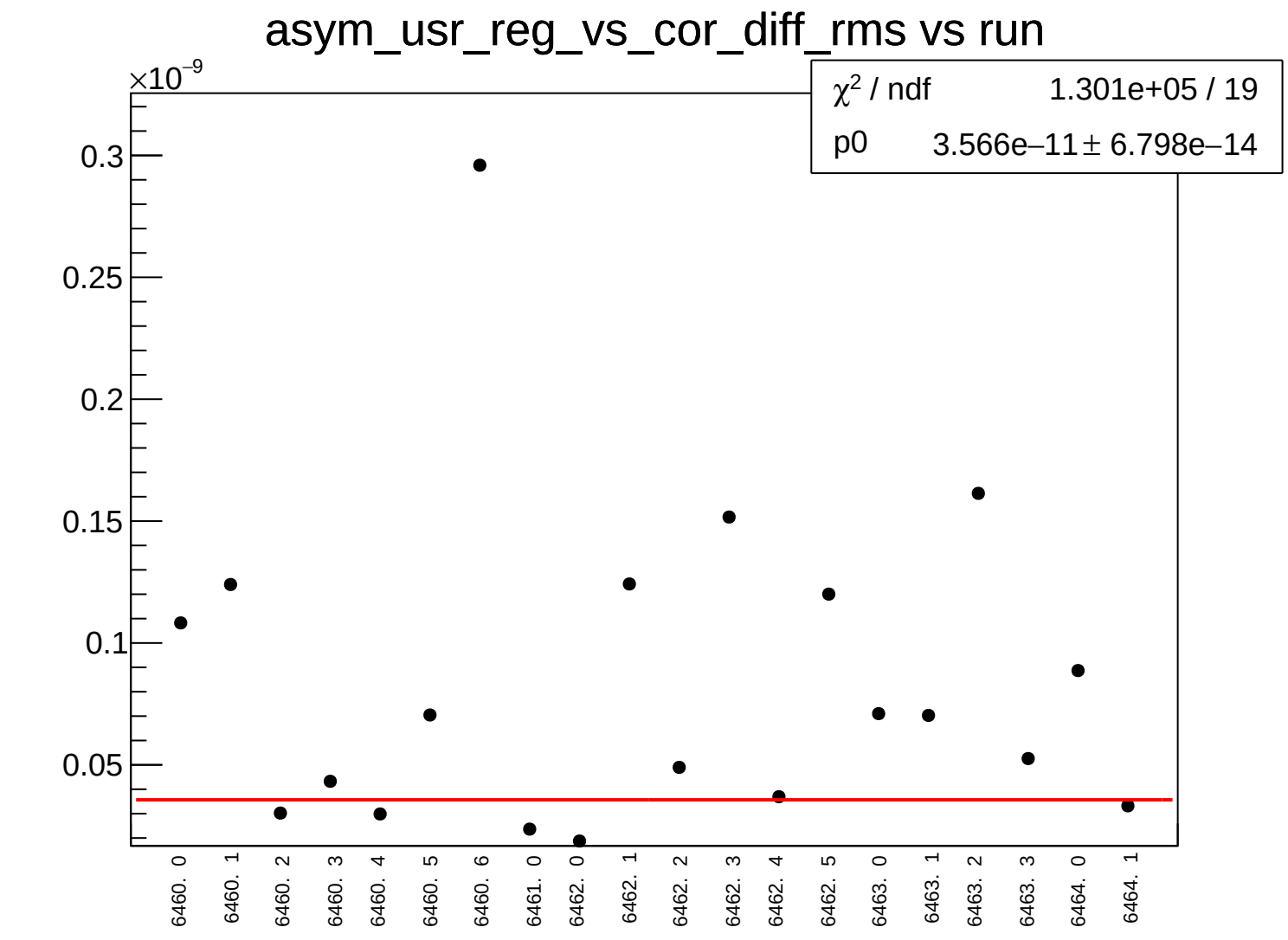

asym_usr_mean vs run
χ² / ndf 11.22 / 19
p0 −3155 ± 4092
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 17.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.0319
Std Dev 0.7483
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

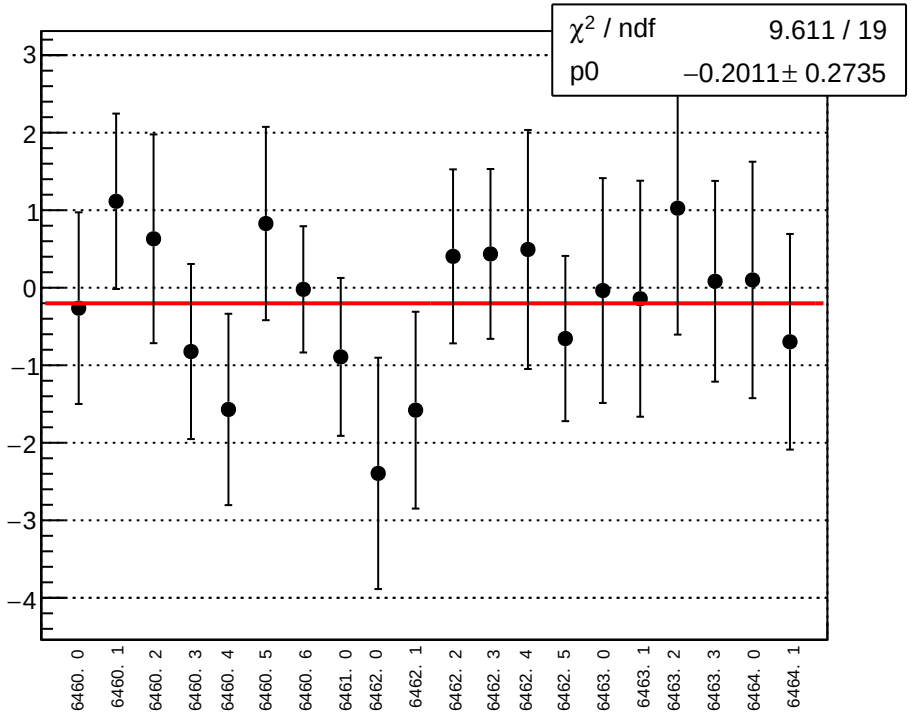

asym_usr_rms vs run
χ² / ndf 511.3 / 19
p0 1840 ± 2.893
1950
1900
1850
1800
1750
1700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

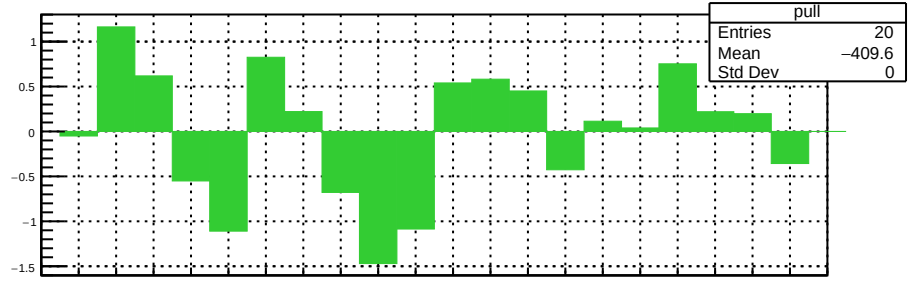

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 23.35 / 19
p0 1.148e−13 ± 9.614e−14
3
2
1
0
−1
−2
−3
−4
−5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

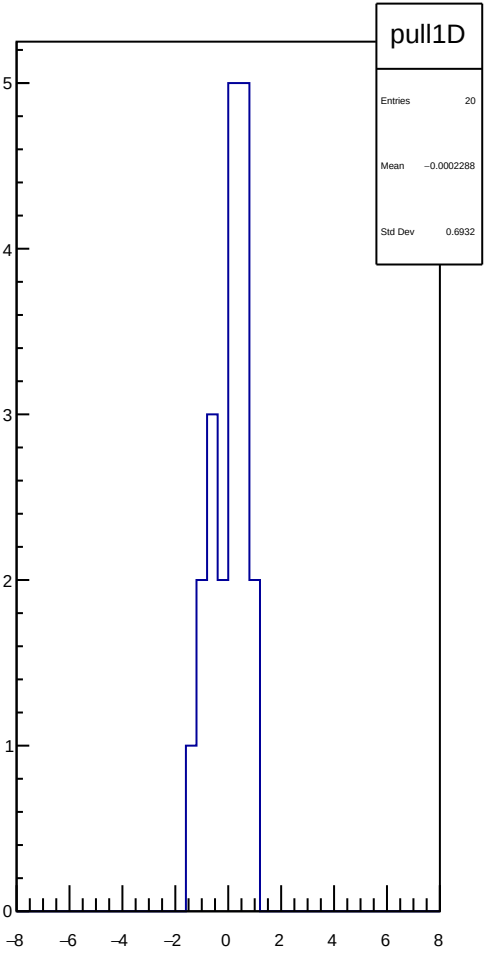

pull1D
Entries 20
Mean −0.1636
Std Dev 1.068
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

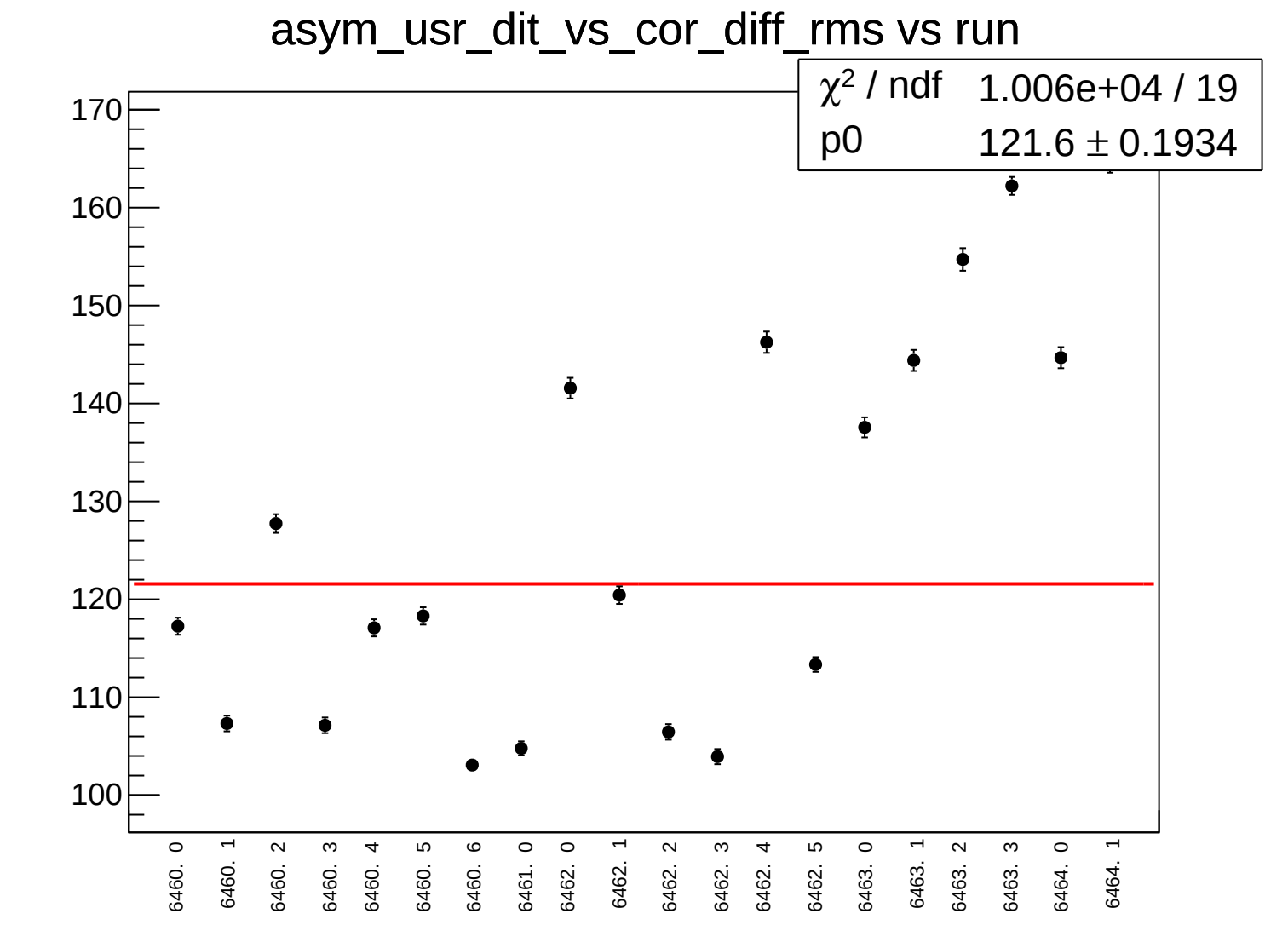

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.301e+05 / 19
p0 3.566e−11 ± 6.798e−14
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

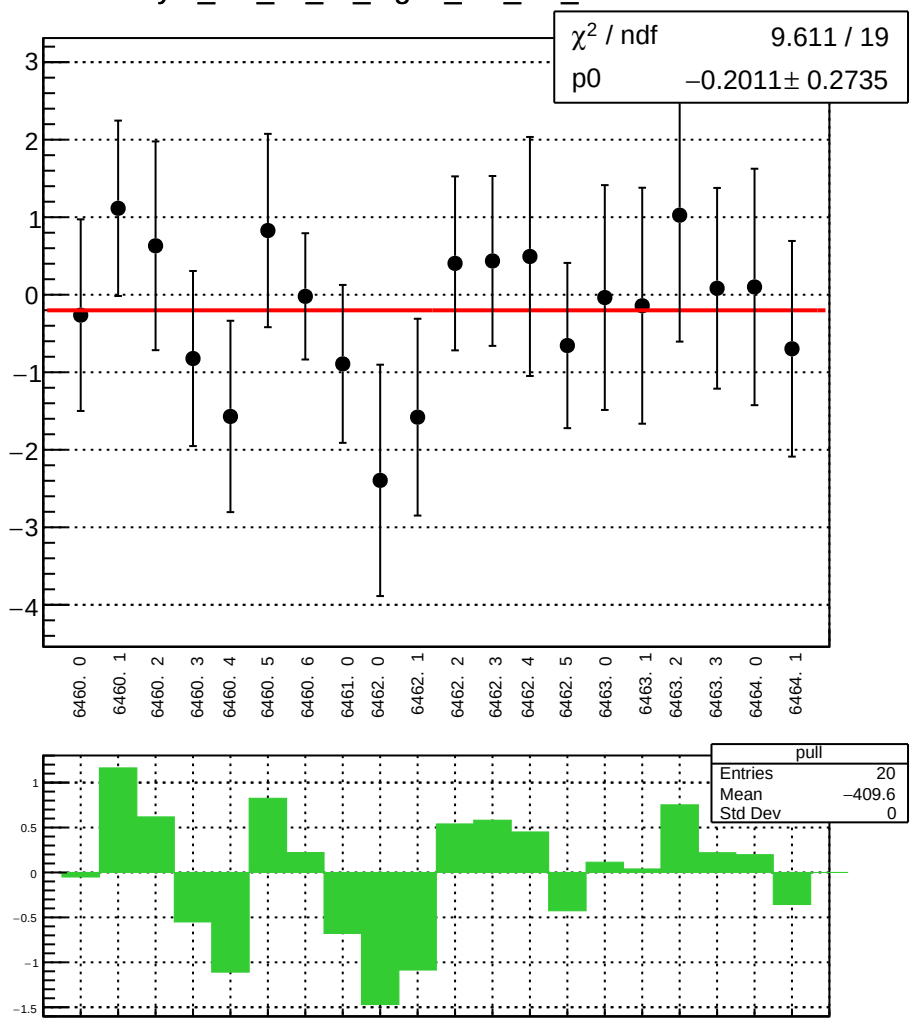
asym_usr_dit_vs_cor_diff_mean vs run

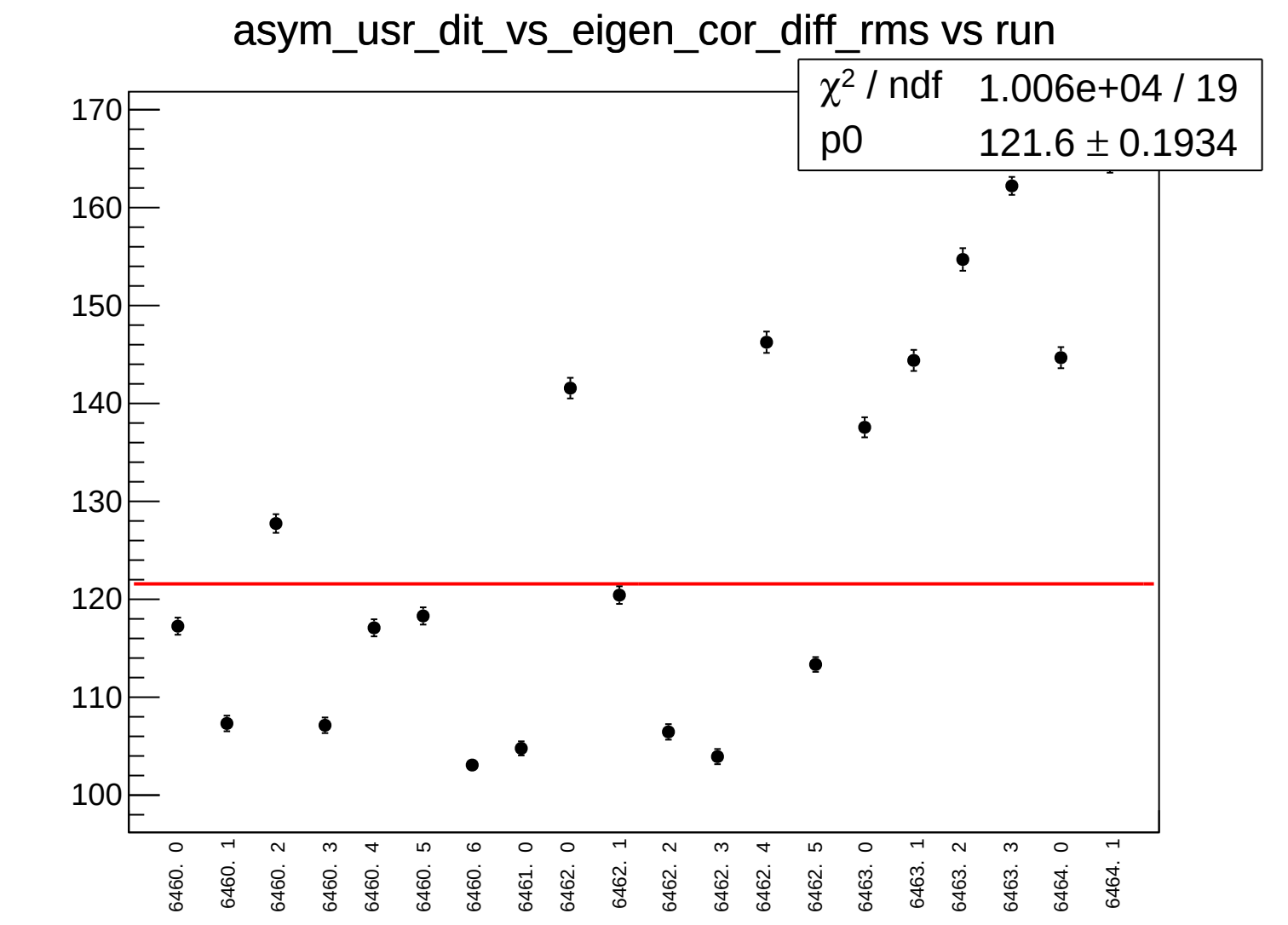


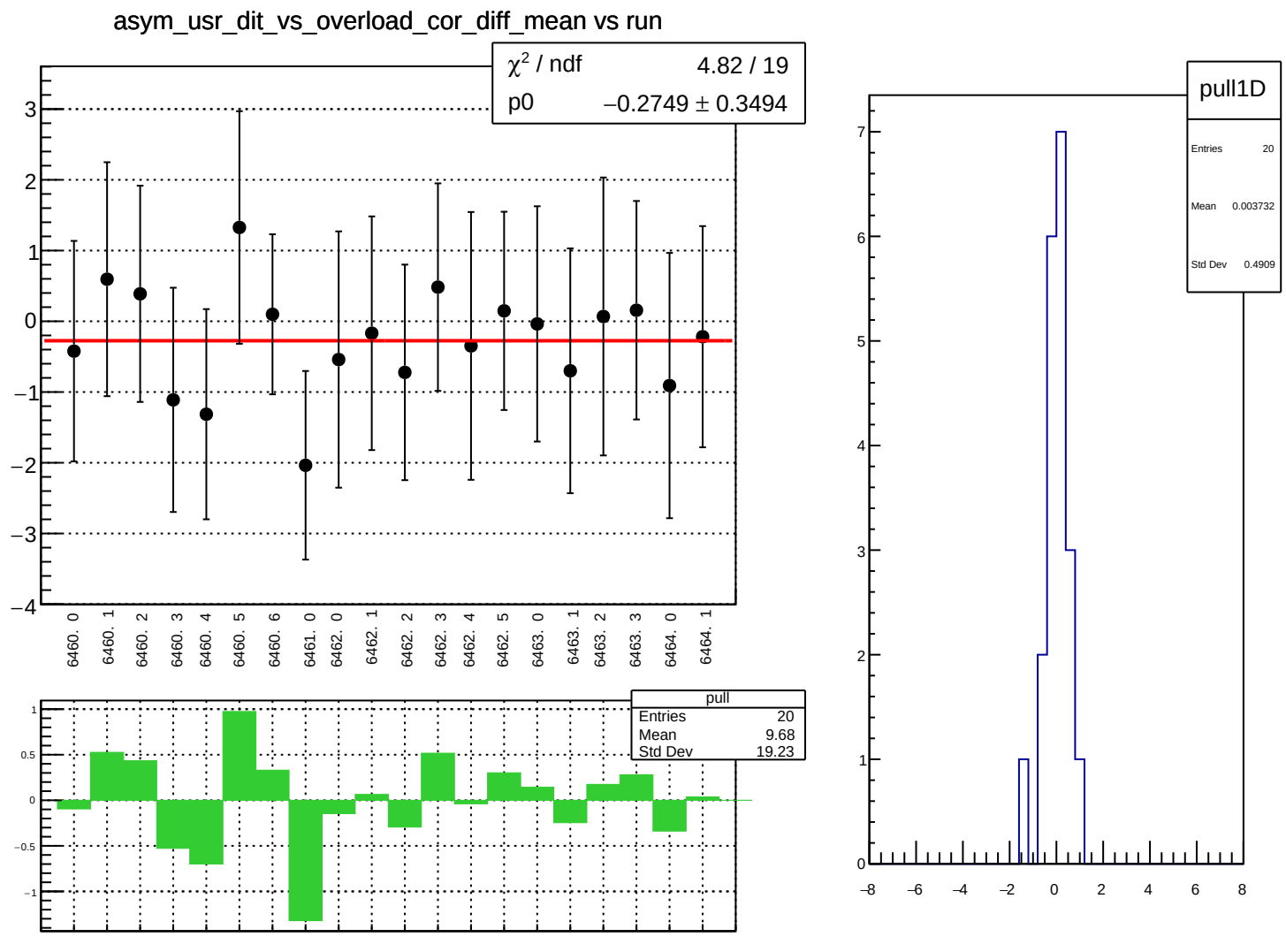


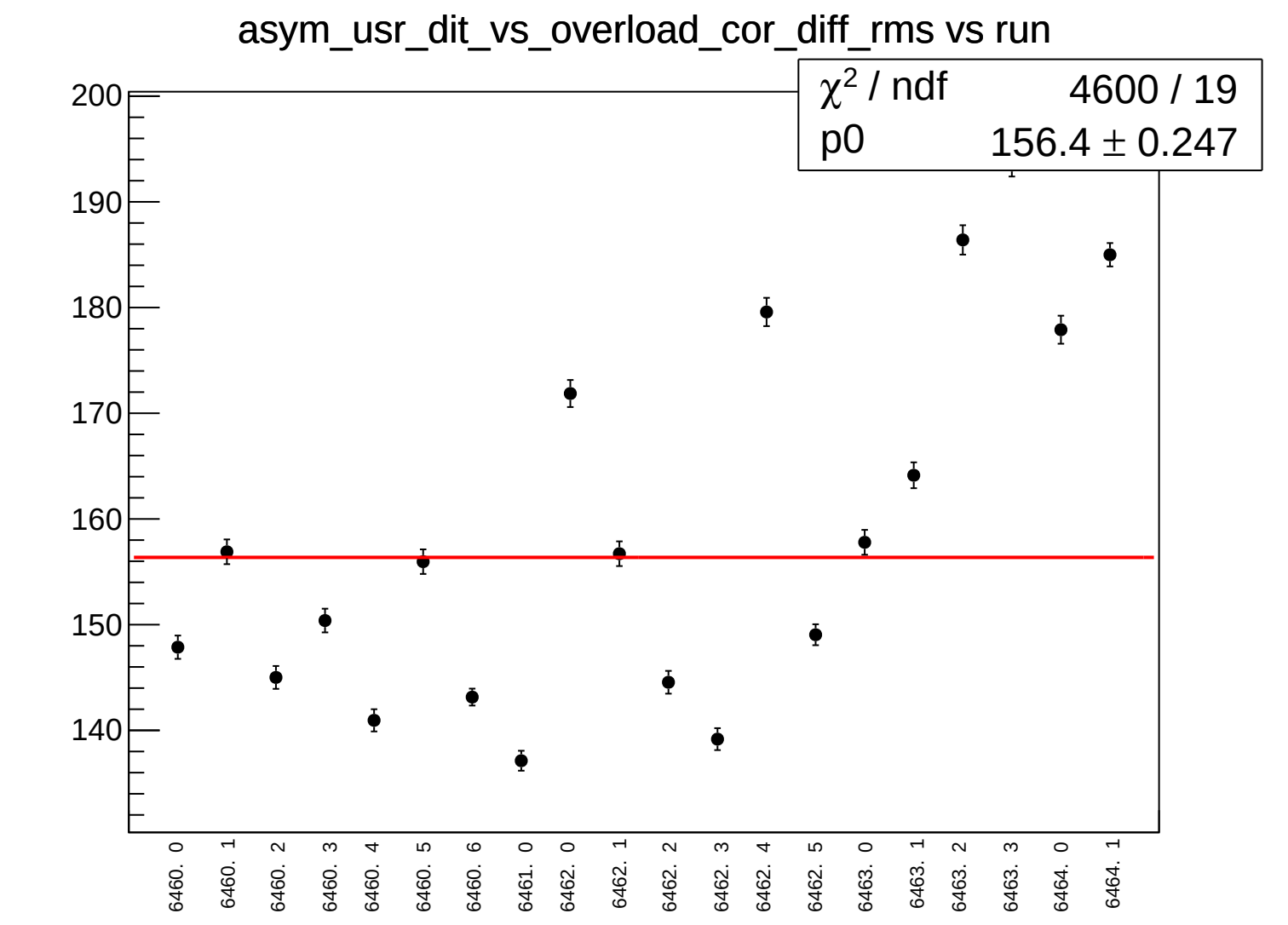


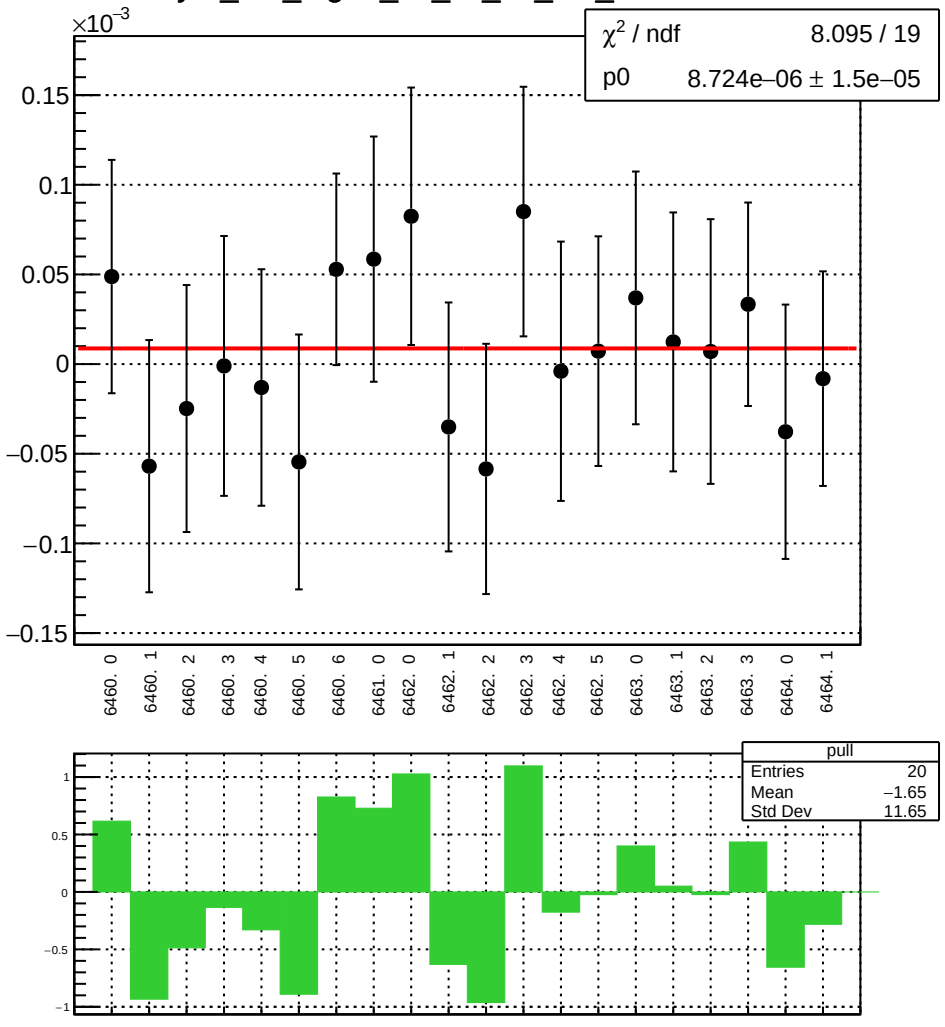

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.006e+04 / 19
p0 121.6 ± 0.1934
170
160
150
140
130
120
110
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

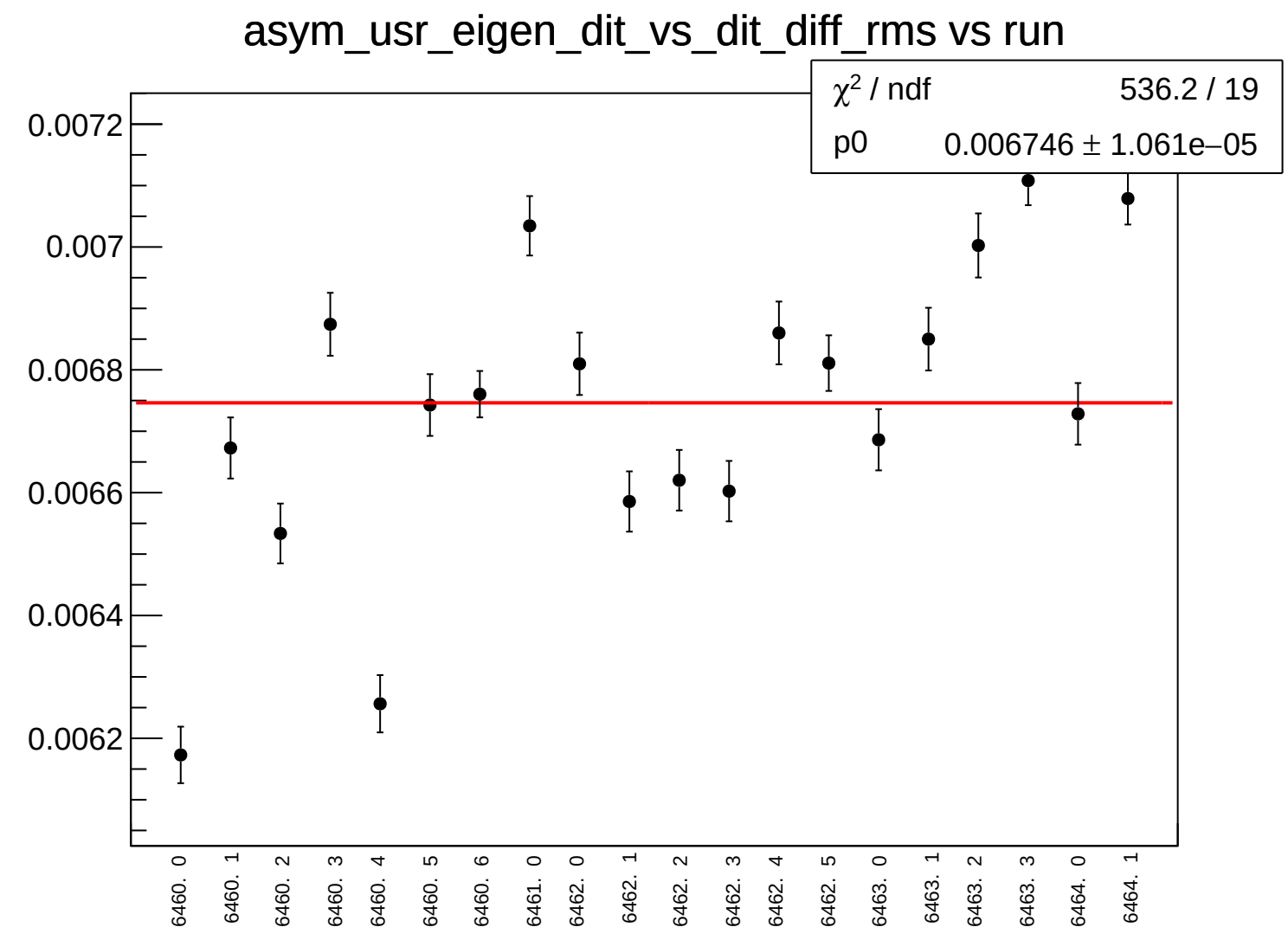

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 9.611 / 19
p0 −0.2011± 0.2735
3
2
1
0
−1
−2
−3
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −409.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0002288
Std Dev 0.6932
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

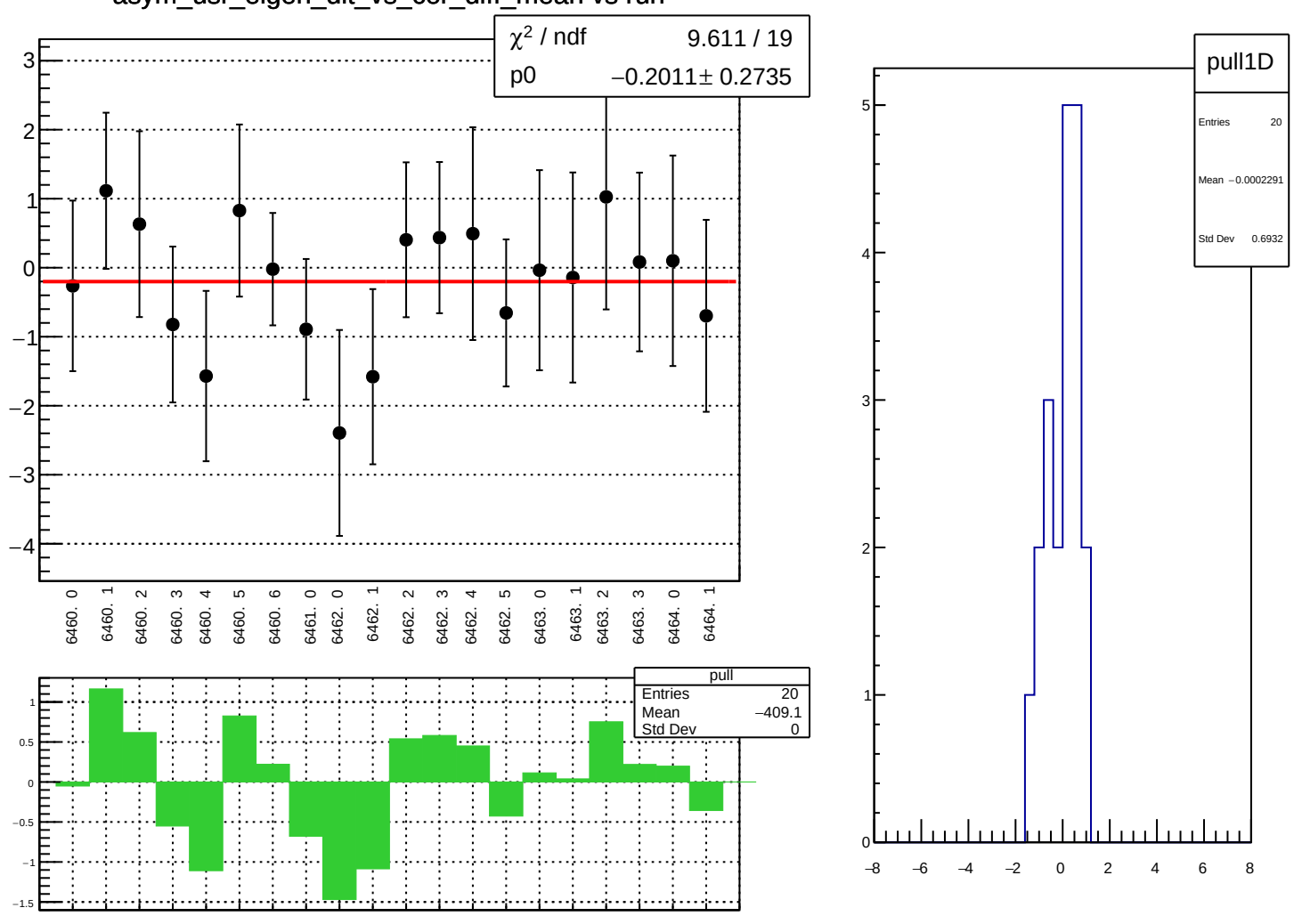

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.006e+04 / 19
p0 121.6 ± 0.1934
170
160
150
140
130
120
110
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

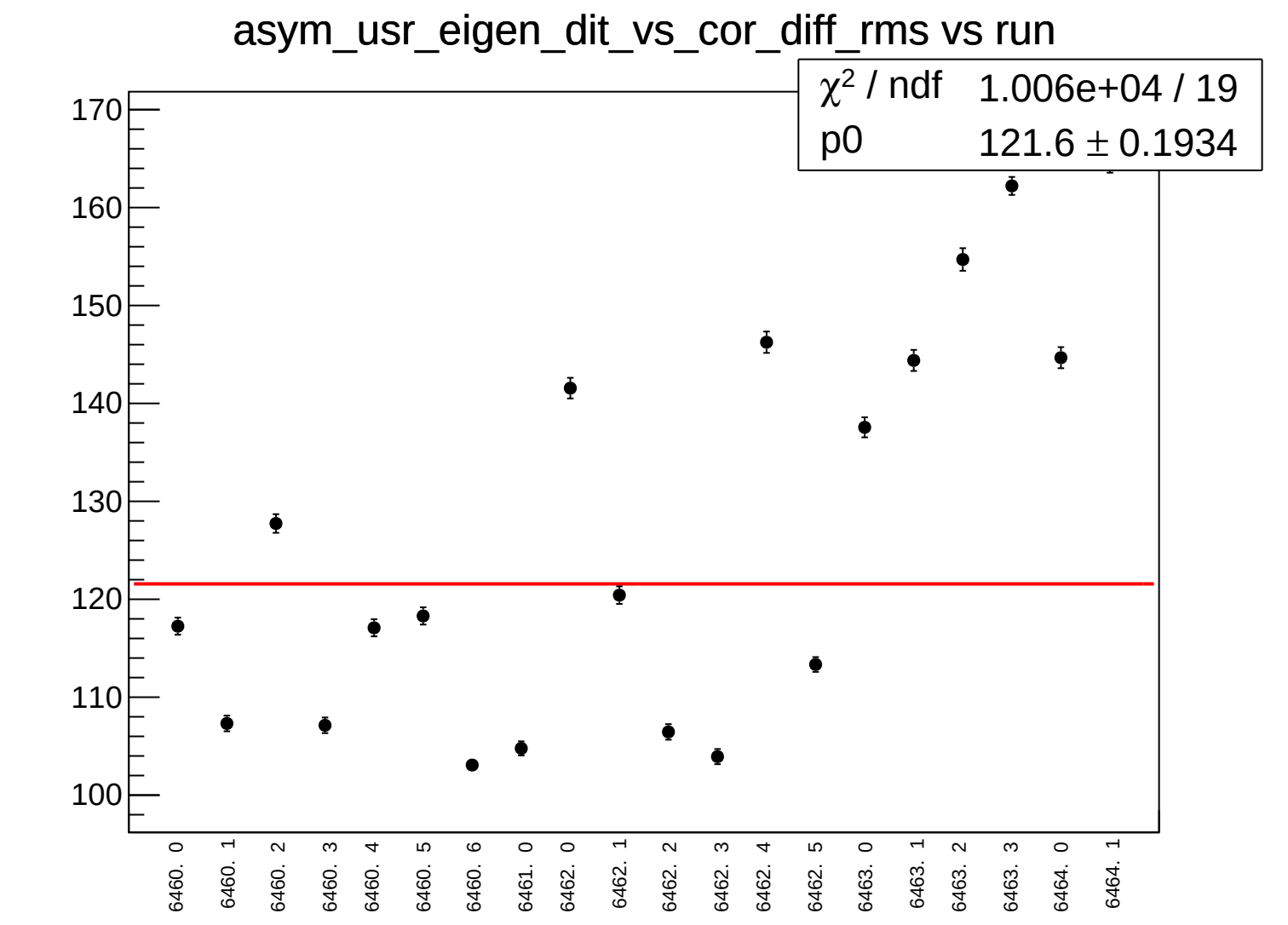

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 4.82 / 19
p0 −0.2749 ± 0.3494
3
2
1
0
−1
−2
−3
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.68
Std Dev 19.23
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.003732
Std Dev 0.4909
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

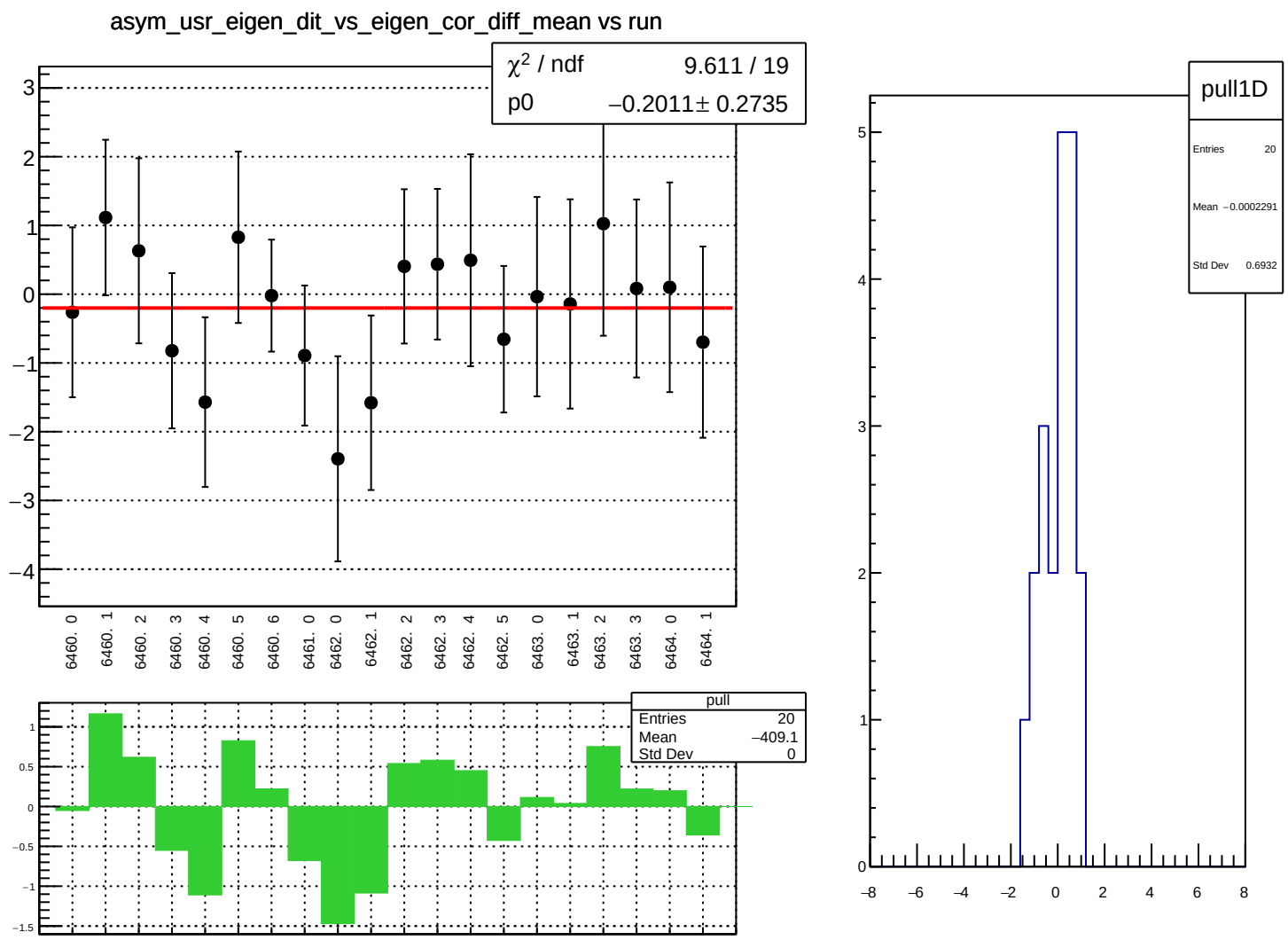

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4600 / 19
p0 156.4 ± 0.247
200
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

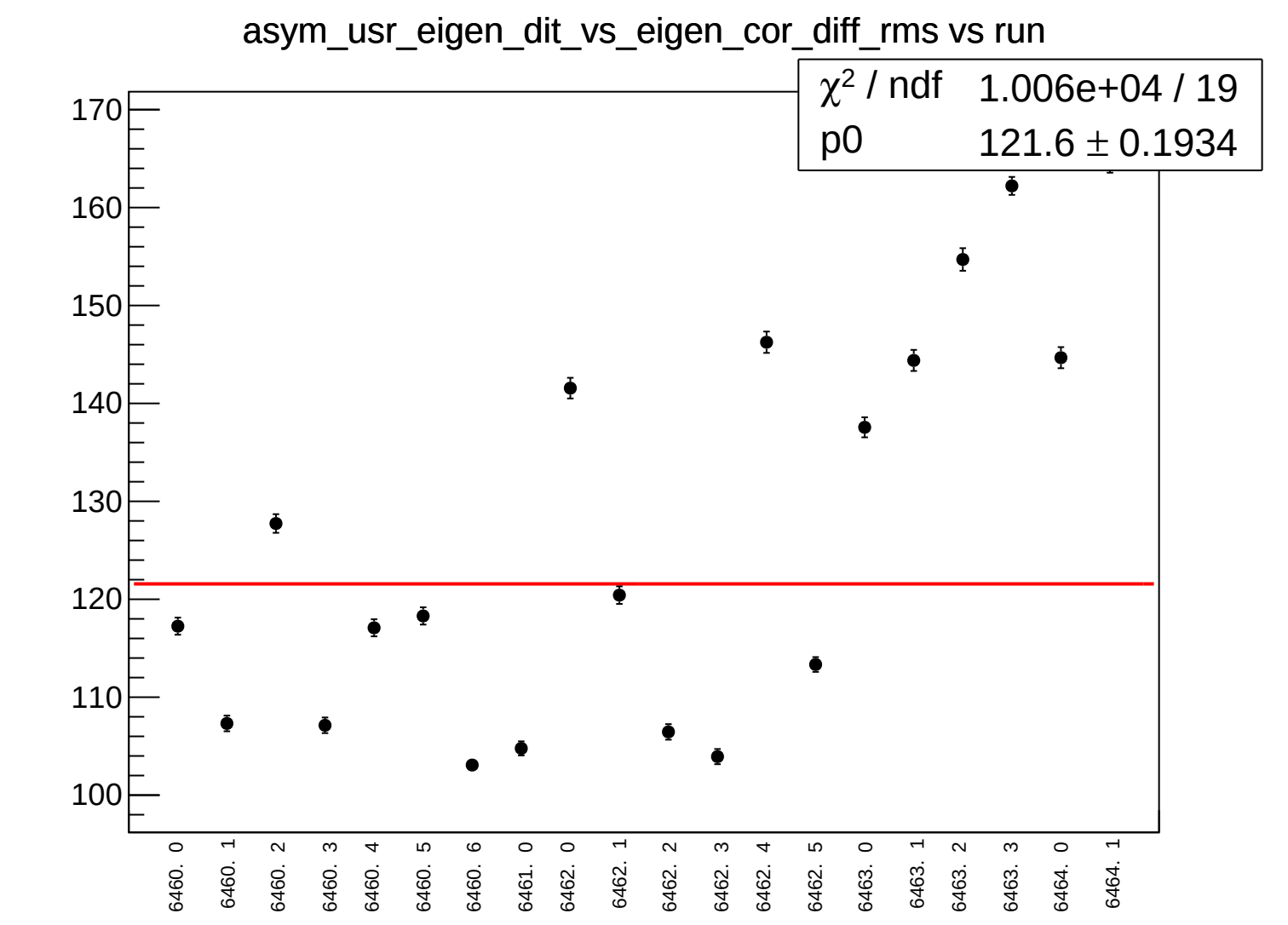

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 8.095 / 19
p0 8.724e–06 ± 1.5e–05
0.15
0.1
0.05
0
–0.05
–0.1
–0.15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean –1.65
Std Dev 11.65
1
0.5
0
–0.5
–1
pull1D
Entries 20
Mean –0.01749
Std Dev 0.636
6
5
4
3
2
1
0
–8
–6
–4
–2
0
2
4
6
8

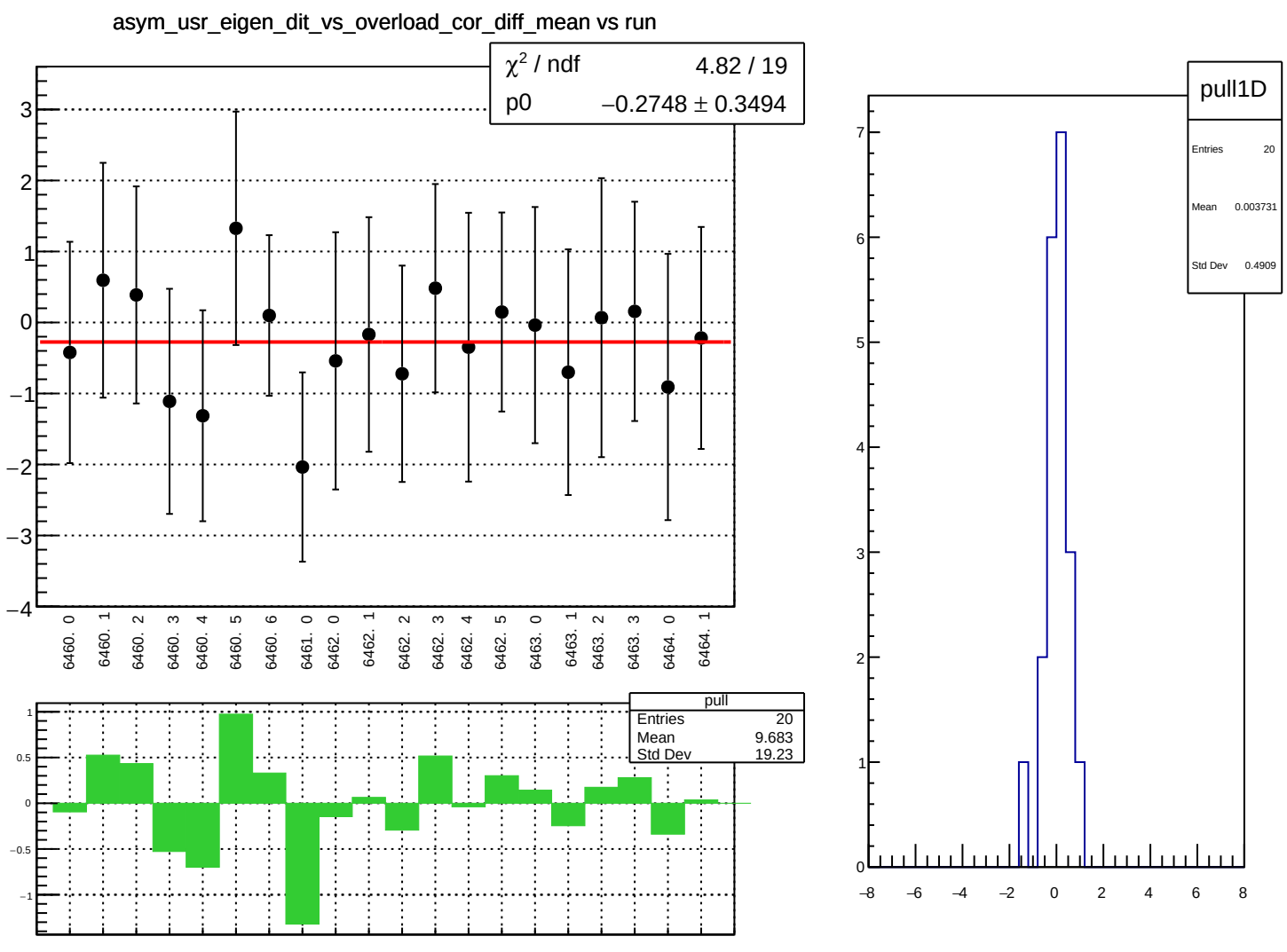

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 536.2 / 19
p0 0.006746 ± 1.061e−05
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

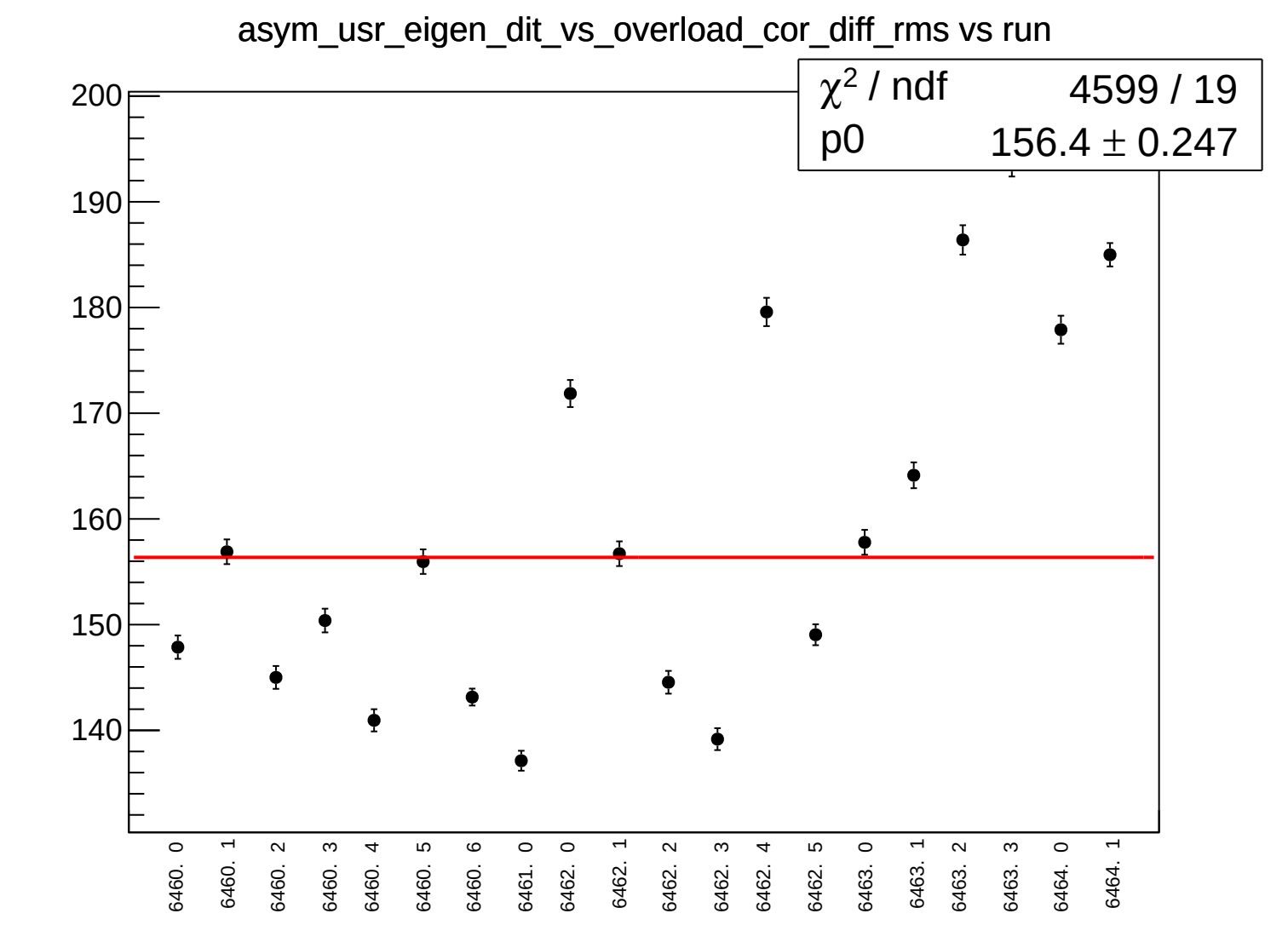

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 9.611 / 19
p0 −0.2011± 0.2735
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −409.1
Std Dev 0
pull1D
Entries 20
Mean −0.0002291
Std Dev 0.6932

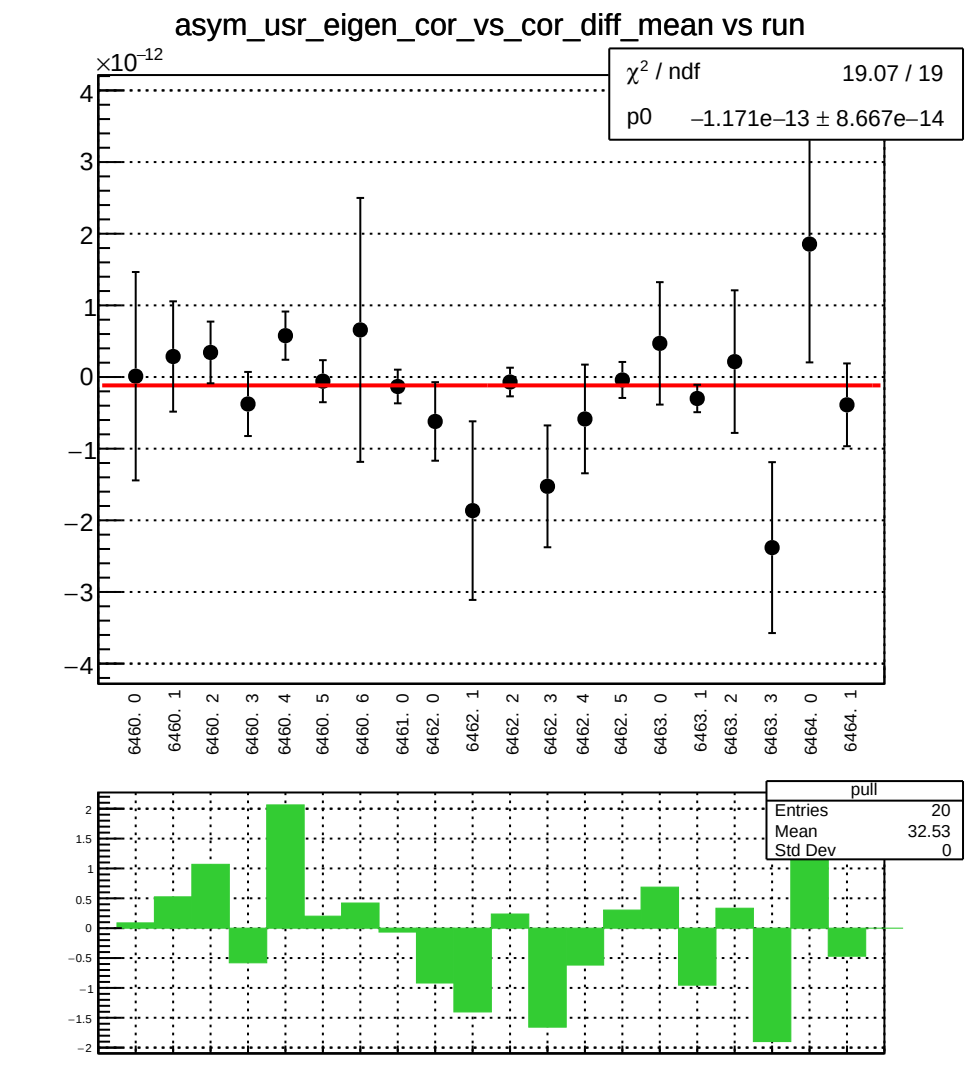

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.006e+04 / 19
p0 121.6 ± 0.1934
170
160
150
140
130
120
110
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

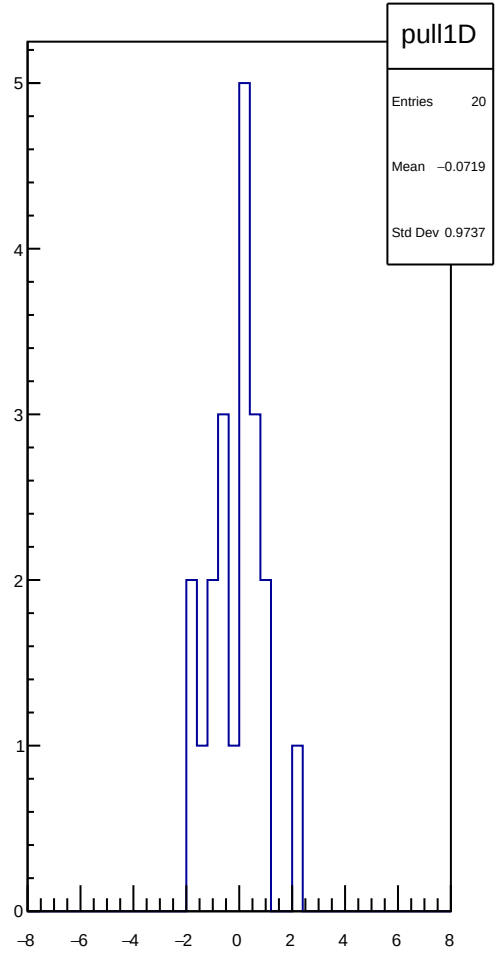

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 9.611 / 19
p0 −0.2011± 0.2735
3
2
1
0
−1
−2
−3
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −409.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0002291
Std Dev 0.6932
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

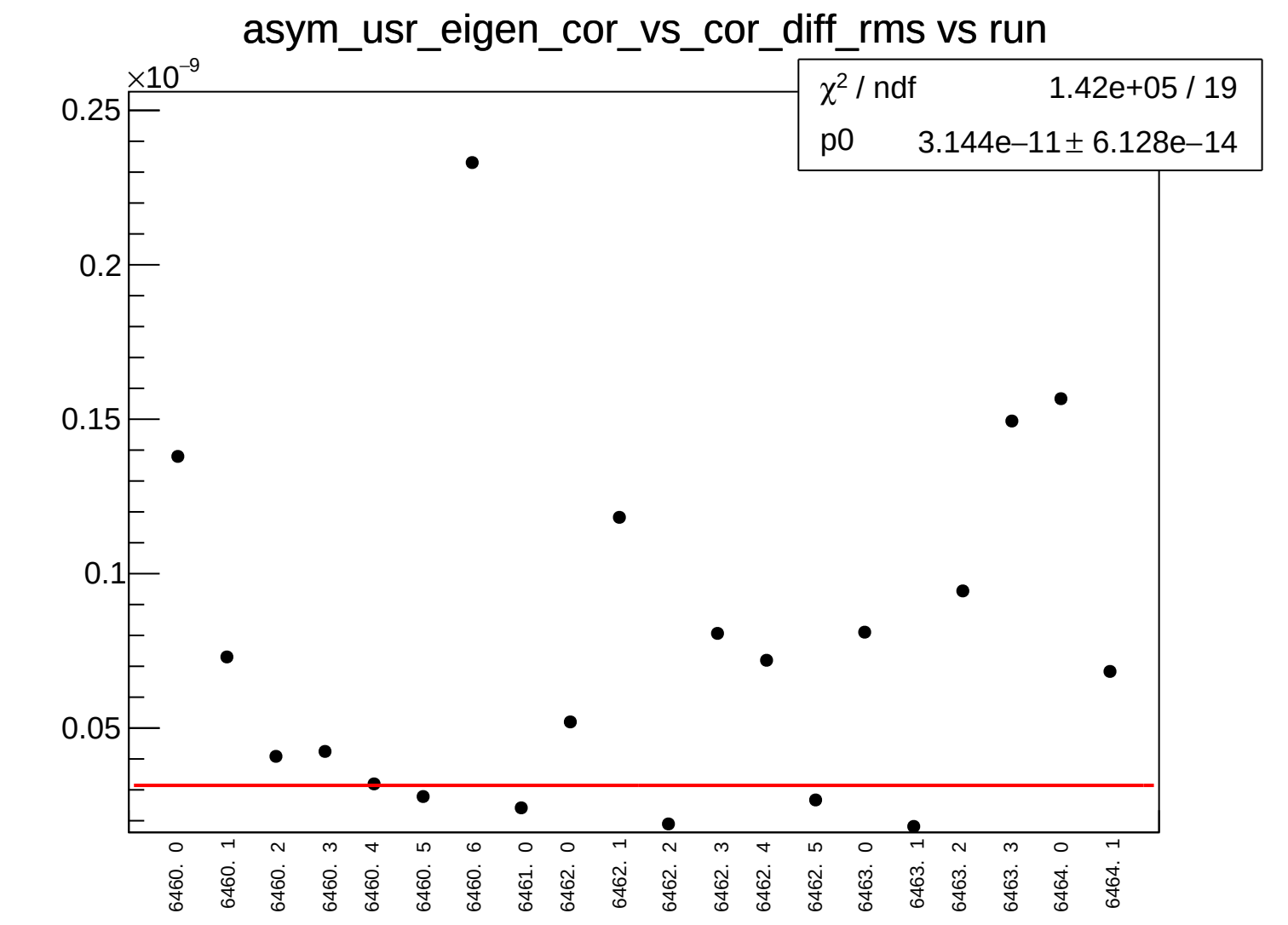

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.006e+04 / 19
p0 121.6 ± 0.1934
170
160
150
140
130
120
110
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

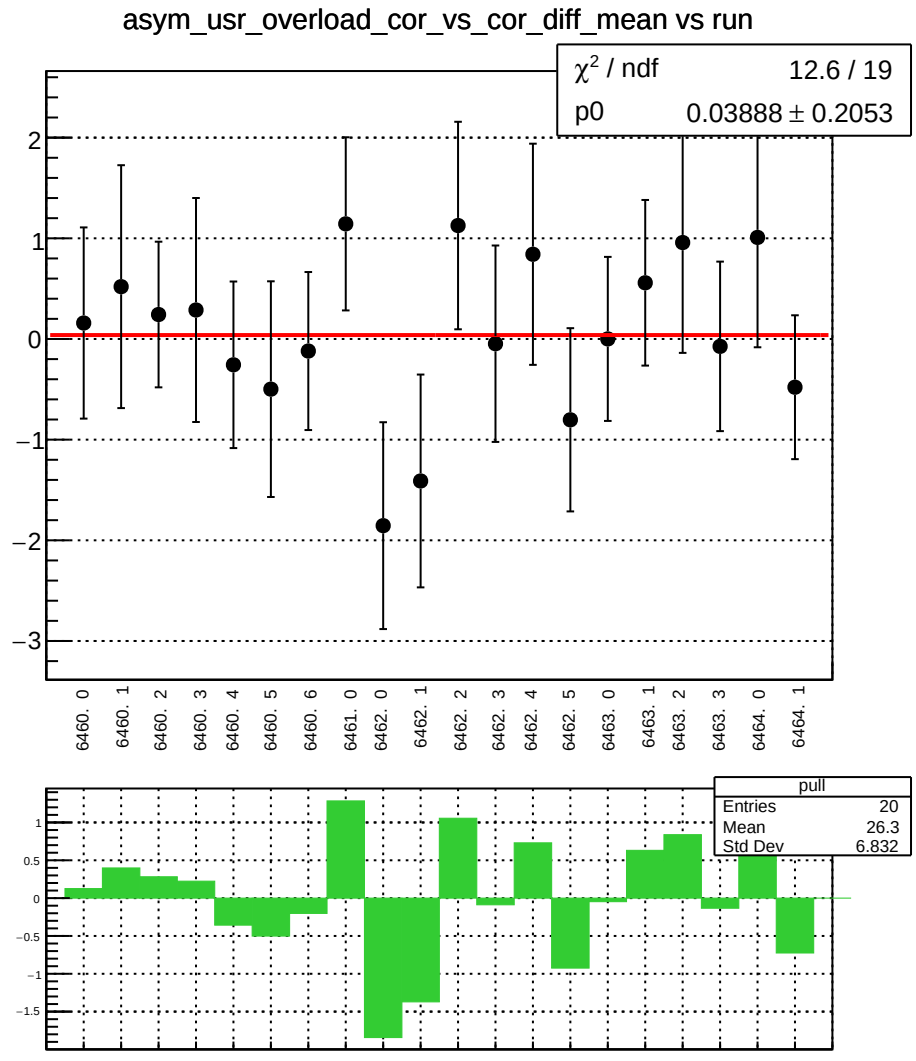

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 4.82 / 19
p0 −0.2748 ± 0.3494
3
2
1
0
−1
−2
−3
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.683
Std Dev 19.23
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.003731
Std Dev 0.4909
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

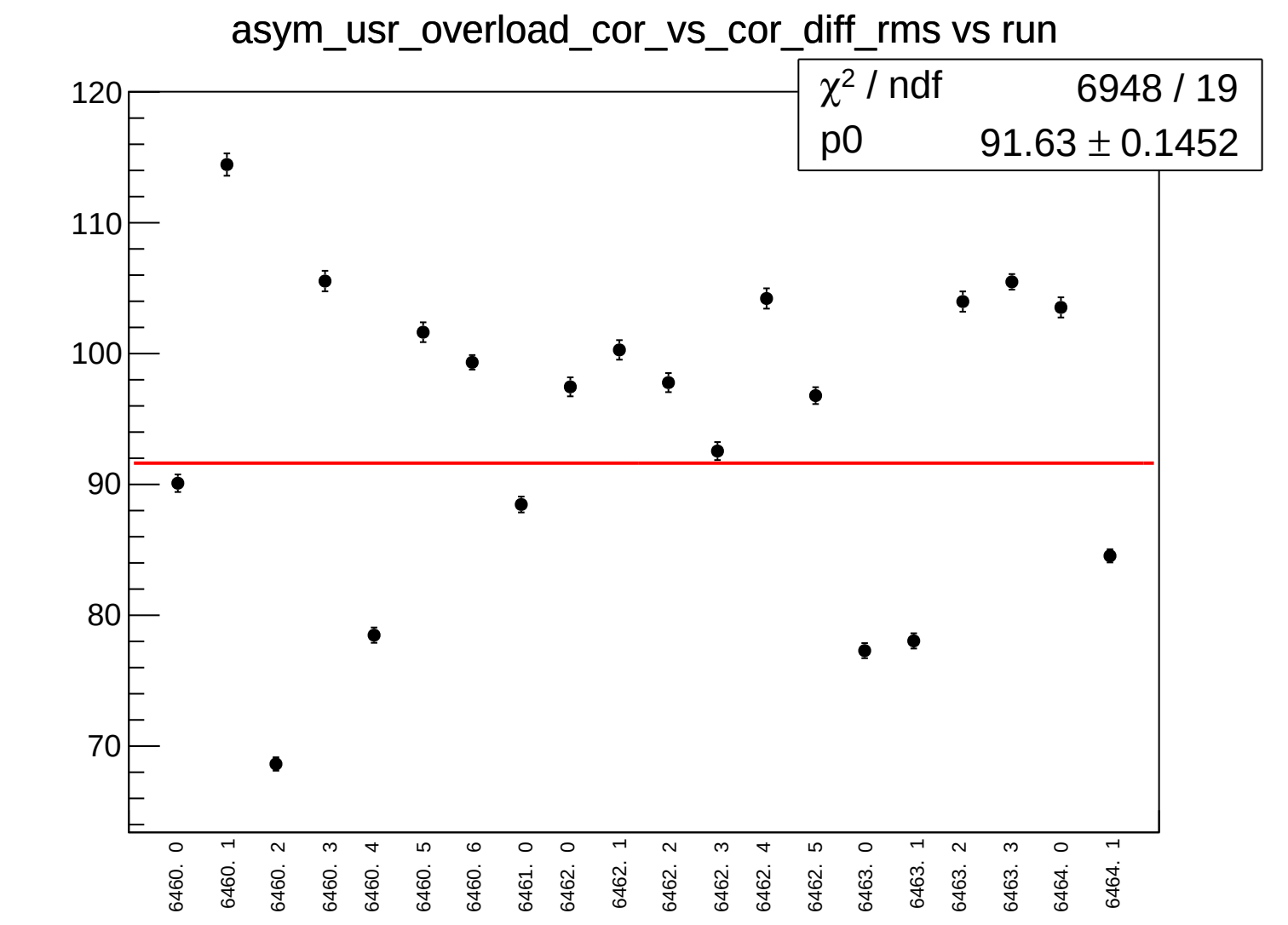

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4599 / 19
p0 156.4 ± 0.247
200
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

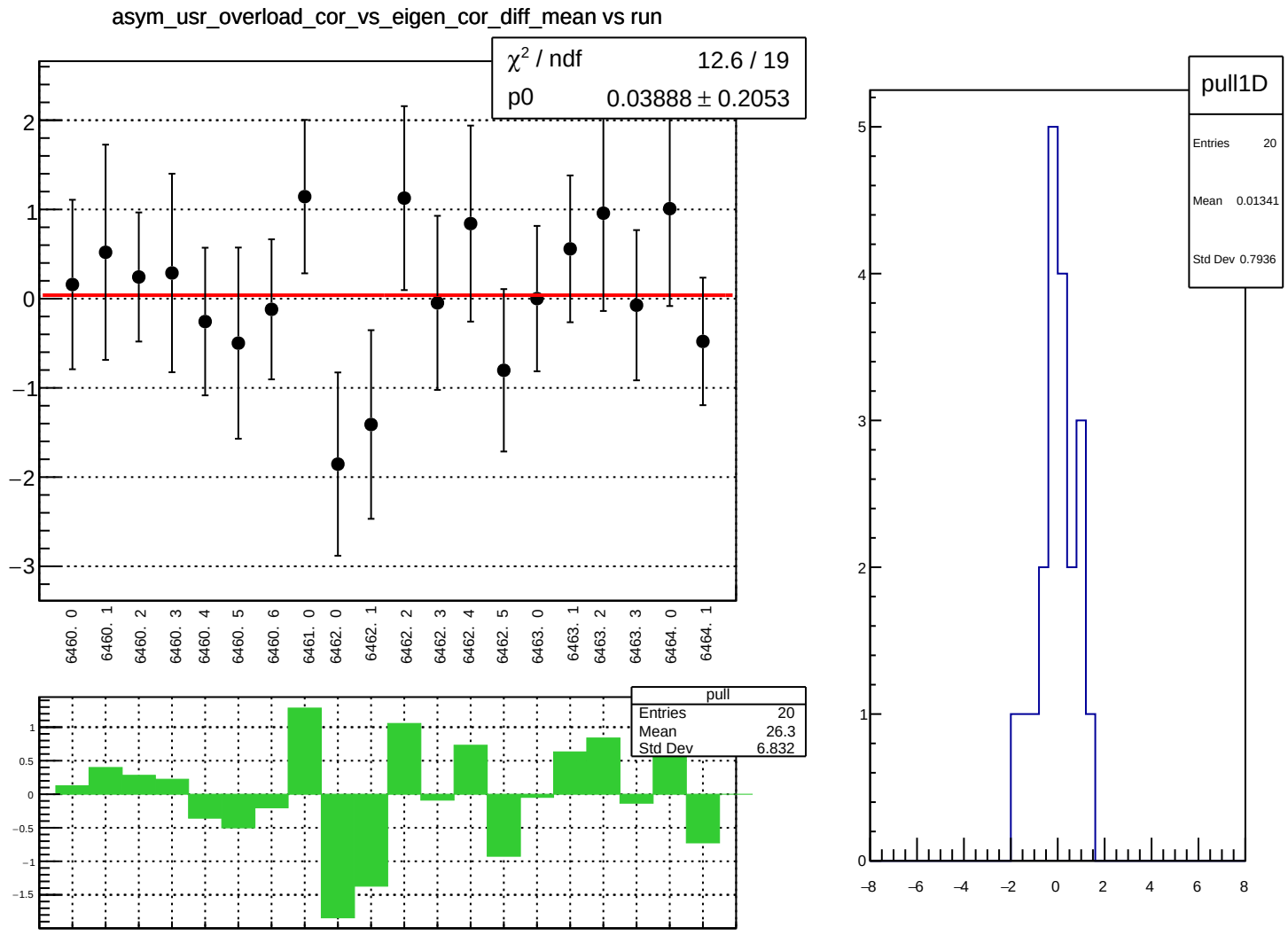

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 19.07 / 19
p0 −1.171e−13 ± 8.667e−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.53
Std Dev 0

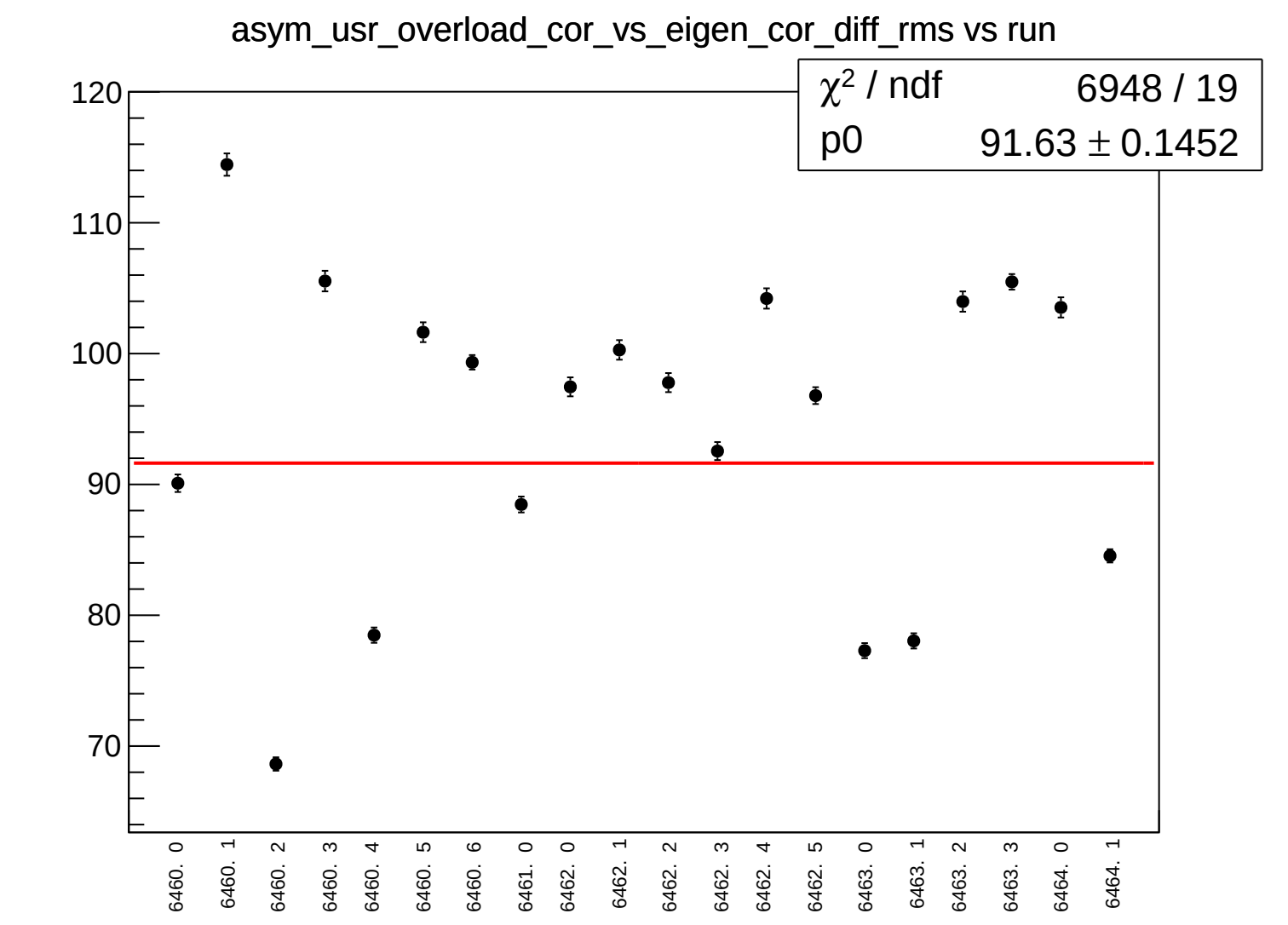

pull1D
Entries 20
Mean −0.0719
Std Dev 0.9737

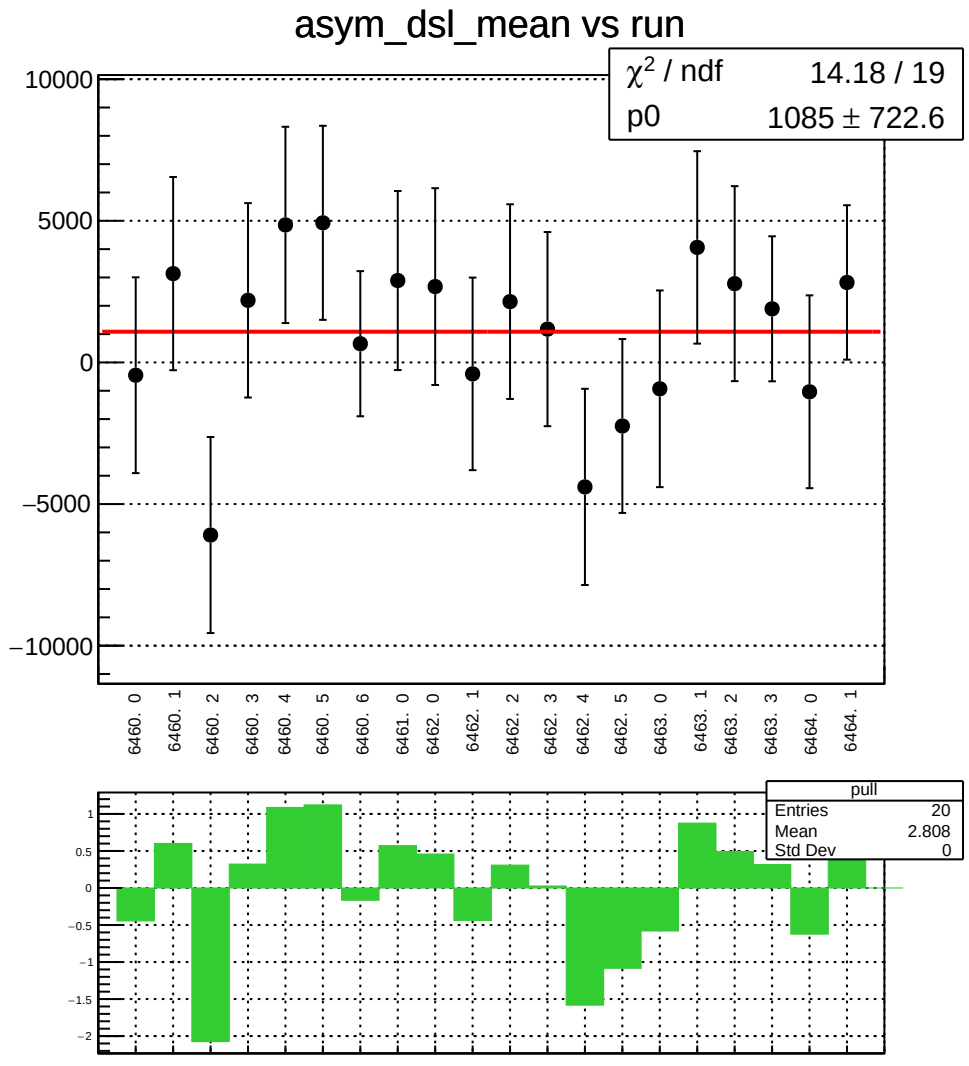

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.42e+05 / 19
p0 3.144e−11 ± 6.128e−14
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

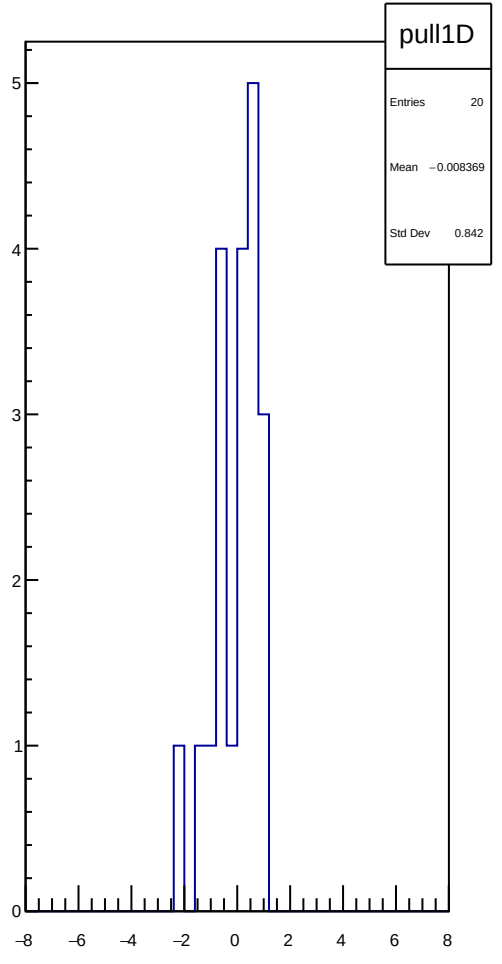

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 12.6 / 19
p0 0.03888 ± 0.2053
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.3
Std Dev 6.832
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01341
Std Dev 0.7936
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

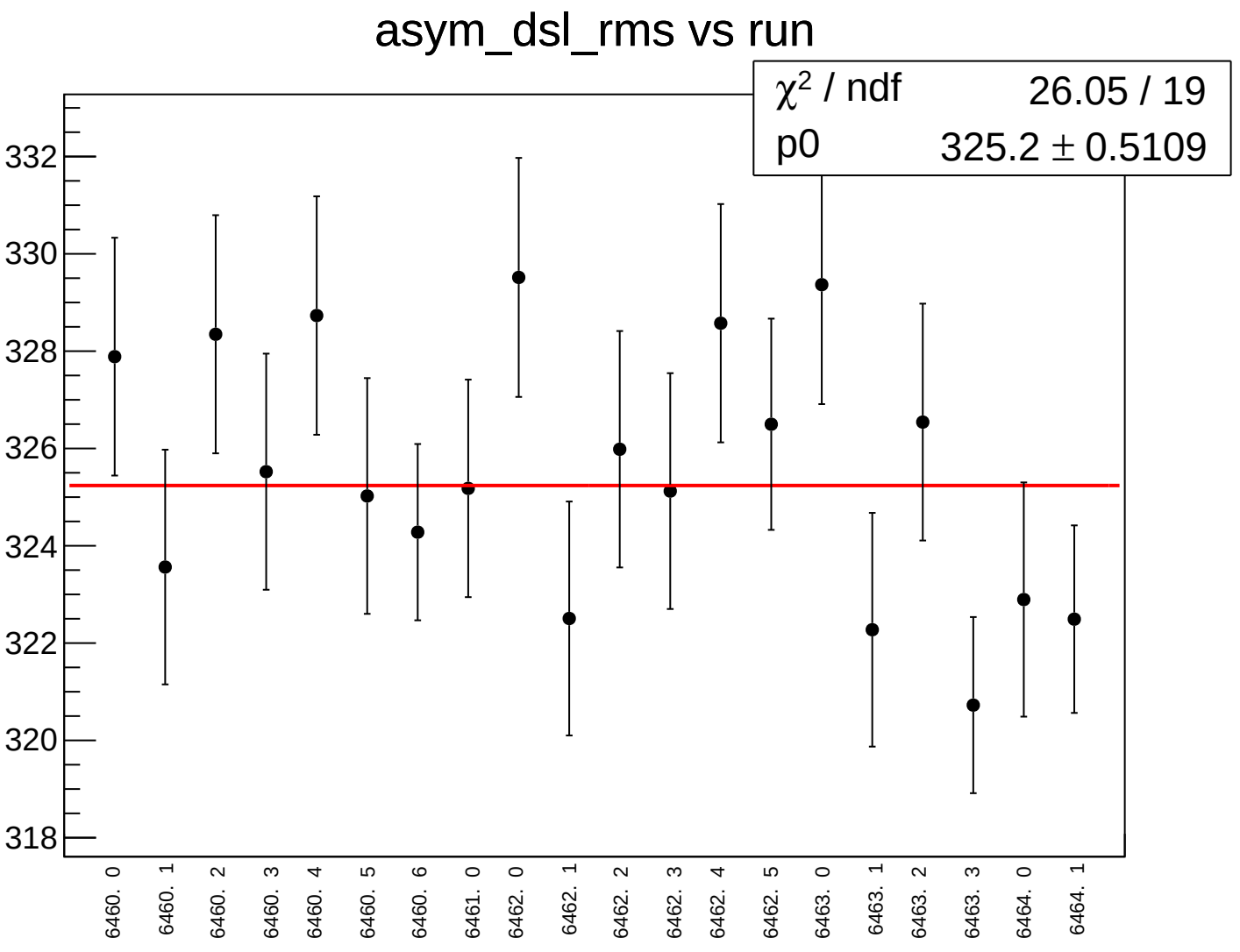

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 6948 / 19
p0 91.63 ± 0.1452
120
110
100
90
80
70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

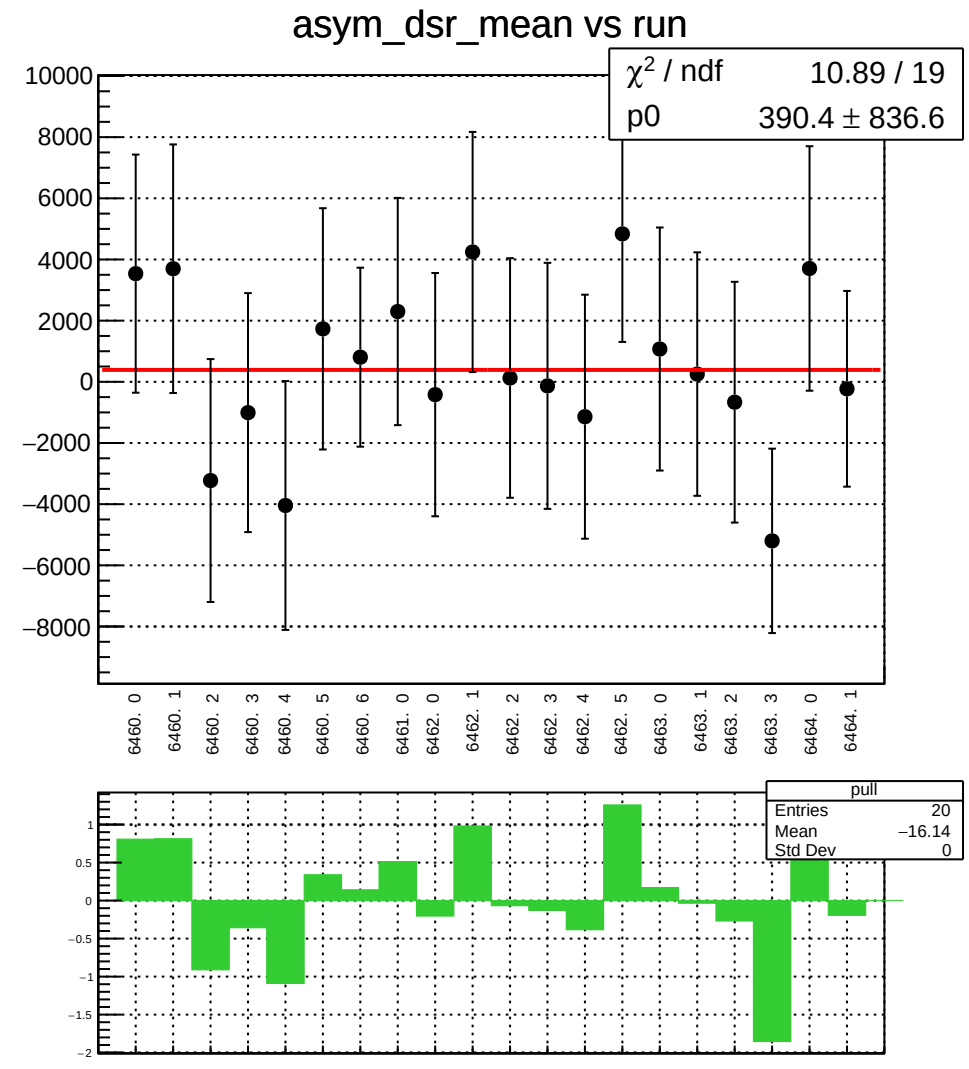

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.6 / 19
p0 0.03888 ± 0.2053
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.3
Std Dev 6.832
pull1D
Entries 20
Mean 0.01341
Std Dev 0.7936

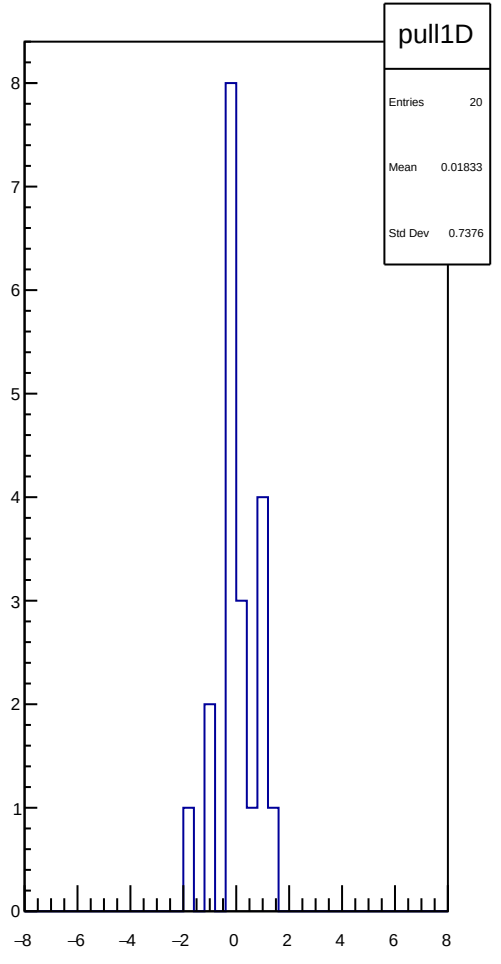

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 6948 / 19
p0 91.63 ± 0.1452
120
110
100
90
80
70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

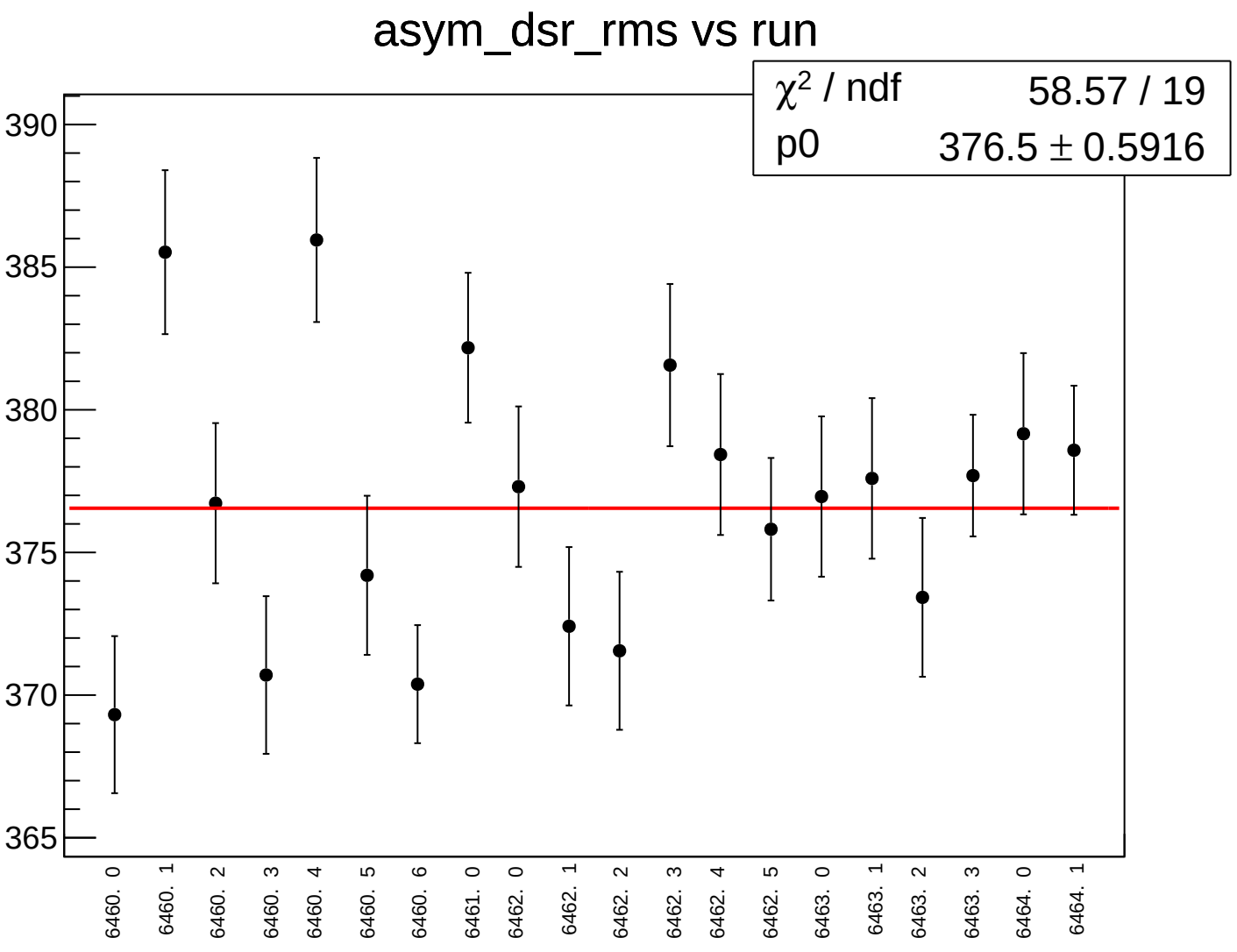

asym_dsl_mean vs run
χ² / ndf 14.18 / 19
p0 1085 ± 722.6
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.808
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

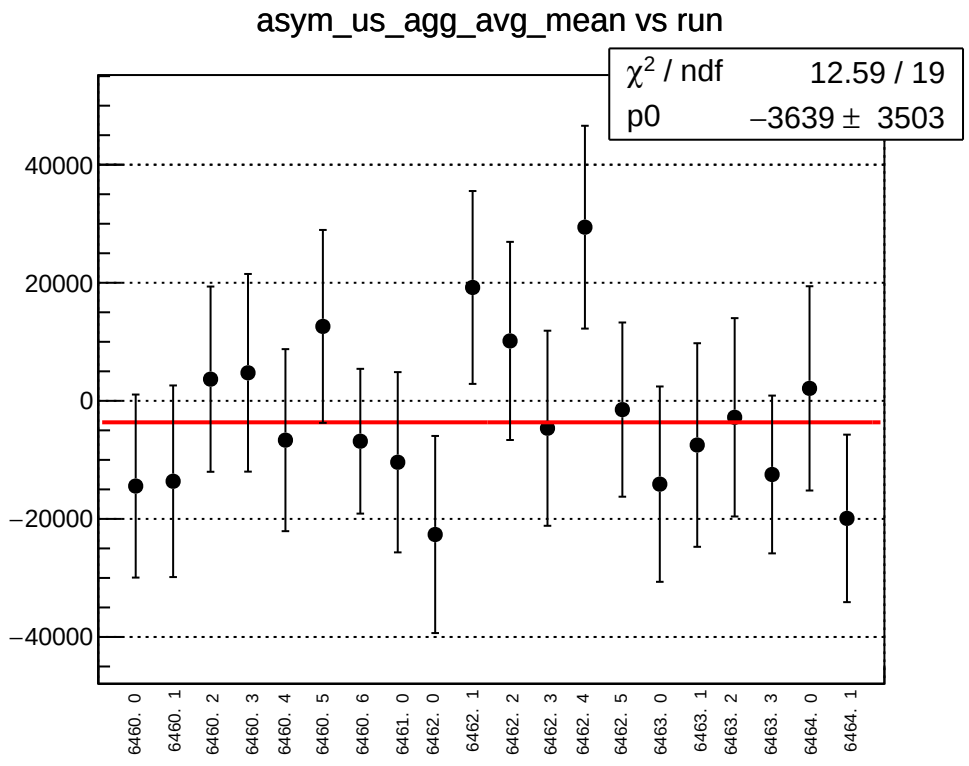

pull1D
Entries 20
Mean −0.008369
Std Dev 0.842
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

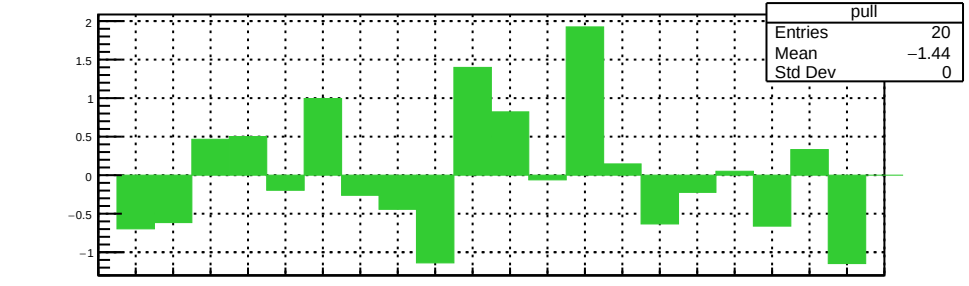

asym_dsl_rms vs run
χ² / ndf 26.05 / 19
p0 325.2 ± 0.5109
332
330
328
326
324
322
320
318
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

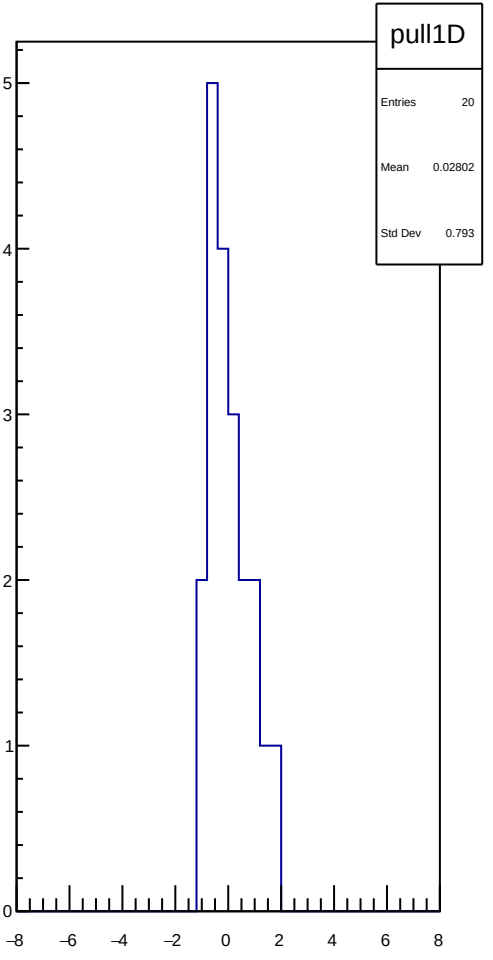

asym_dsr_mean vs run
χ² / ndf 10.89 / 19
p0 390.4 ± 836.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −16.14
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

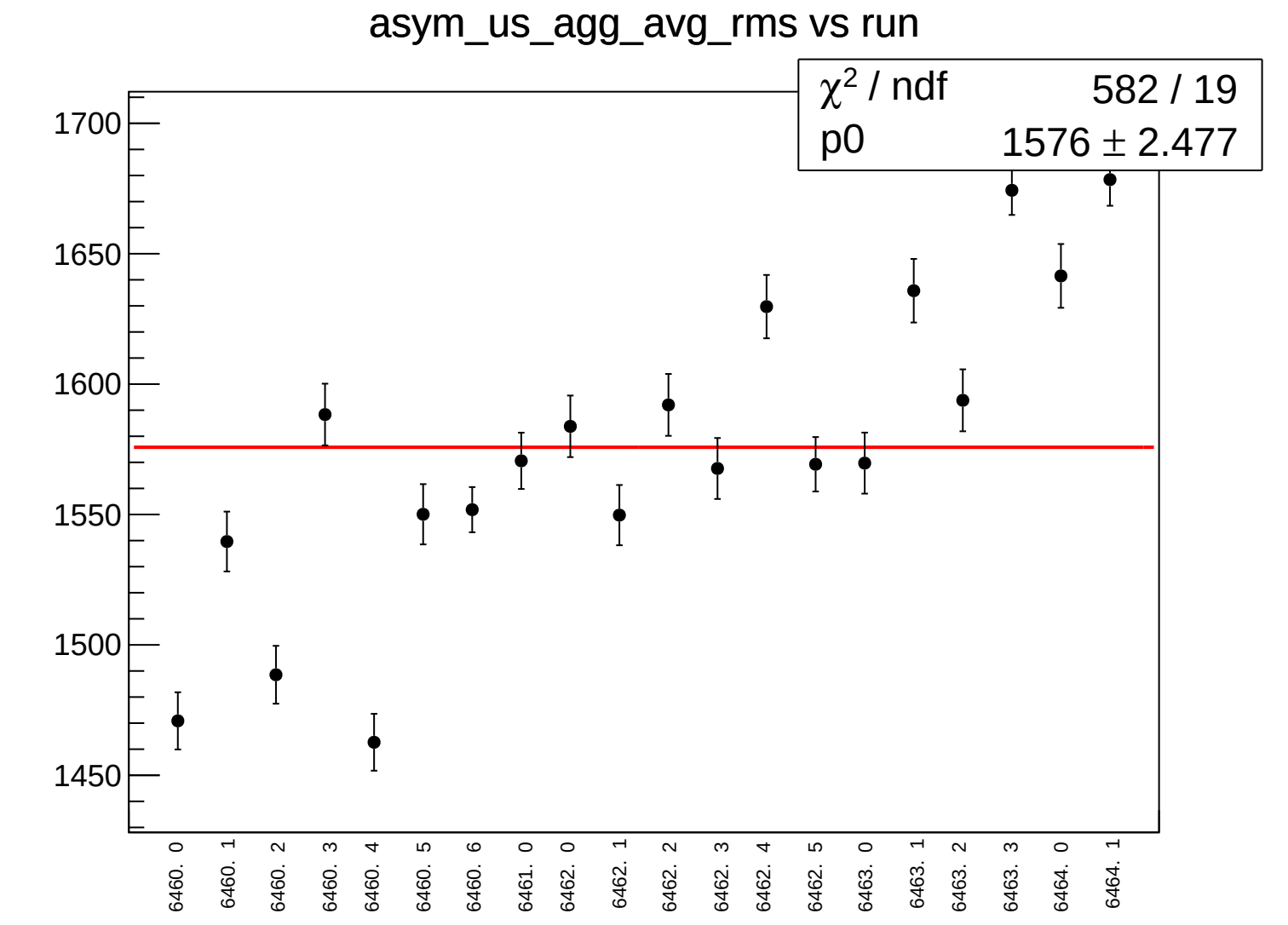

pull1D
Entries 20
Mean 0.01833
Std Dev 0.7376
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

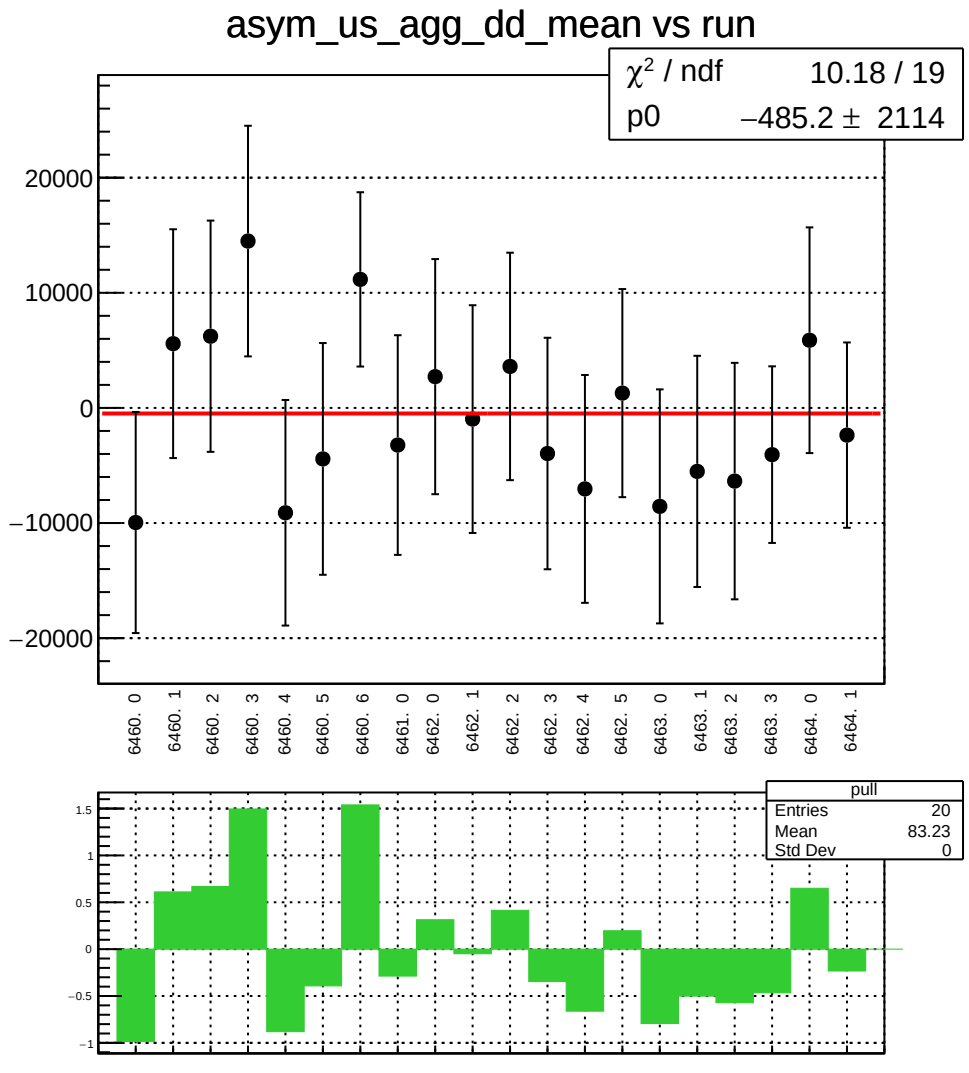

asym_dsr_rms vs run
χ² / ndf 58.57 / 19
p0 376.5 ± 0.5916
390
385
380
375
370
365
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

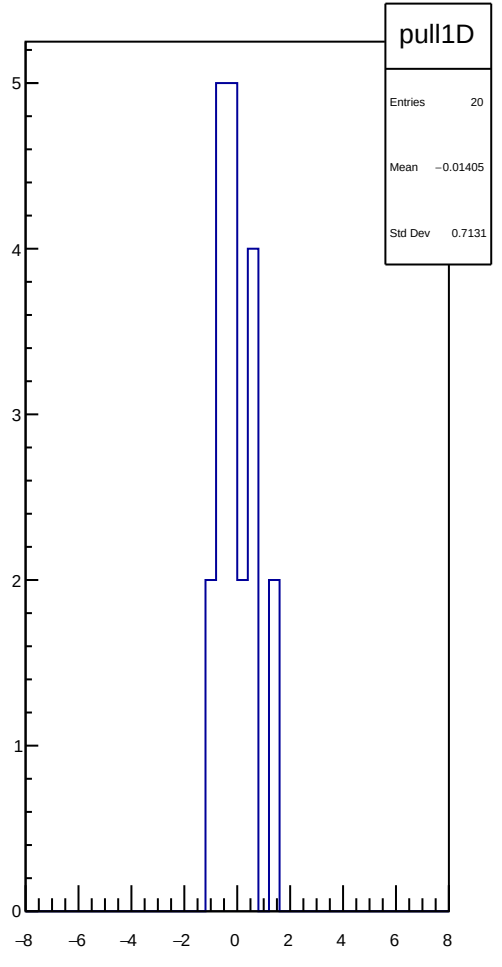

asym_us_agg_avg_mean vs run
χ² / ndf 12.59 / 19
p0 −3639 ± 3503
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

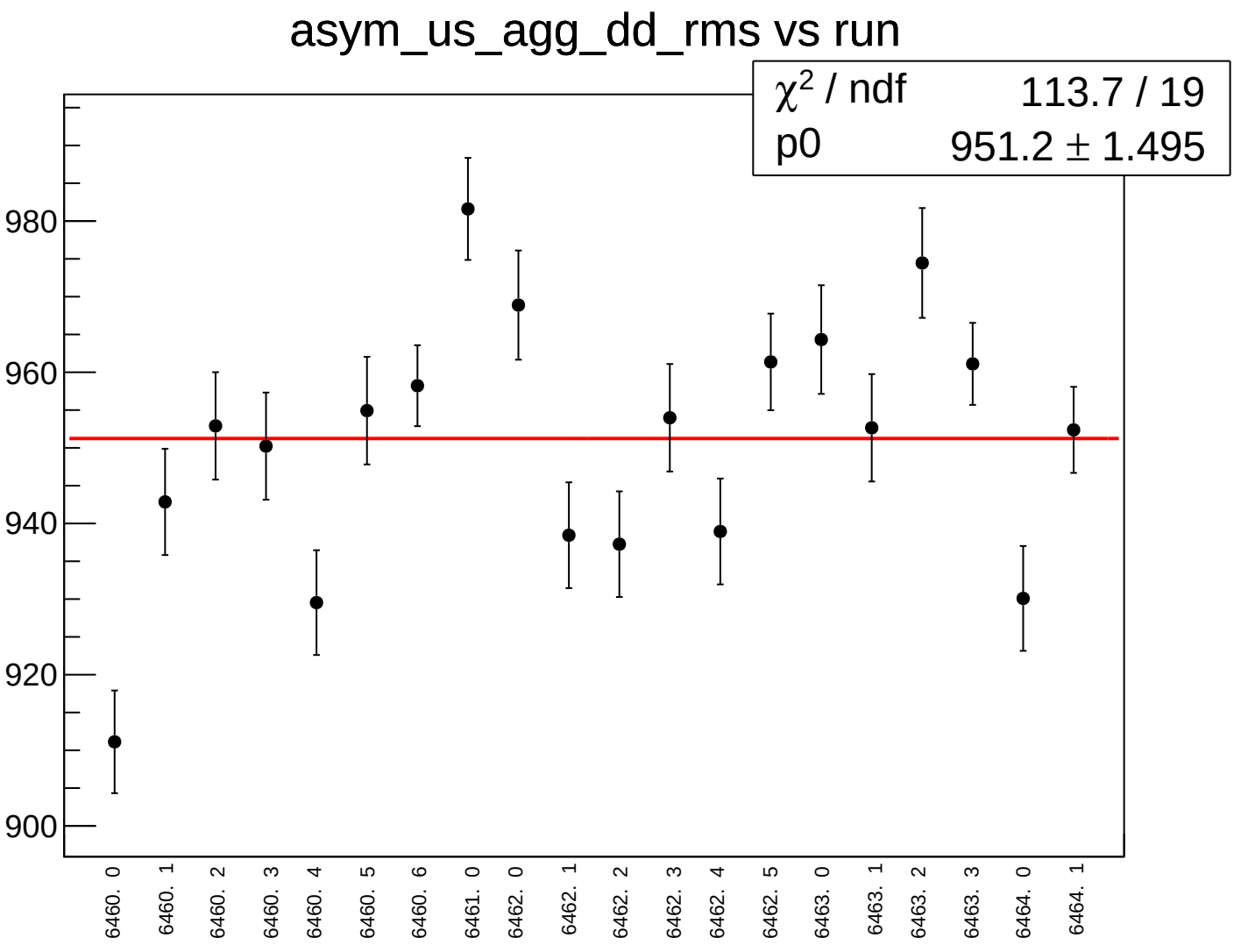

pull
Entries 20
Mean −1.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

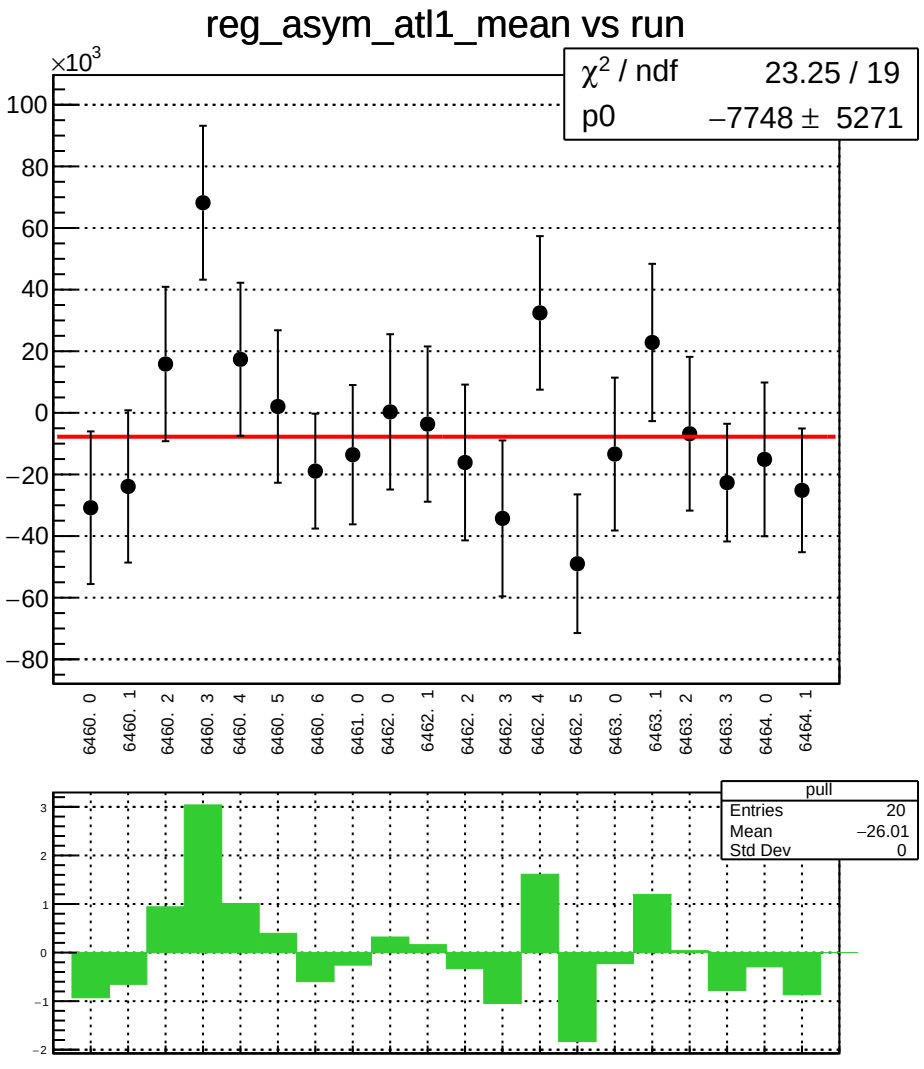

pull1D
Entries 20
Mean 0.02802
Std Dev 0.793
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

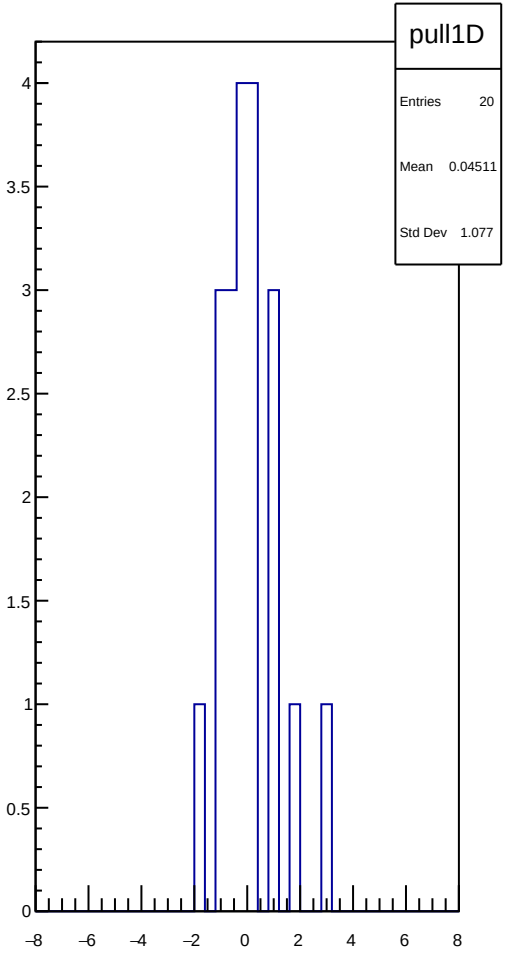

asym_us_agg_avg_rms vs run
χ² / ndf 582 / 19
p0 1576 ± 2.477
1700
1650
1600
1550
1500
1450
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

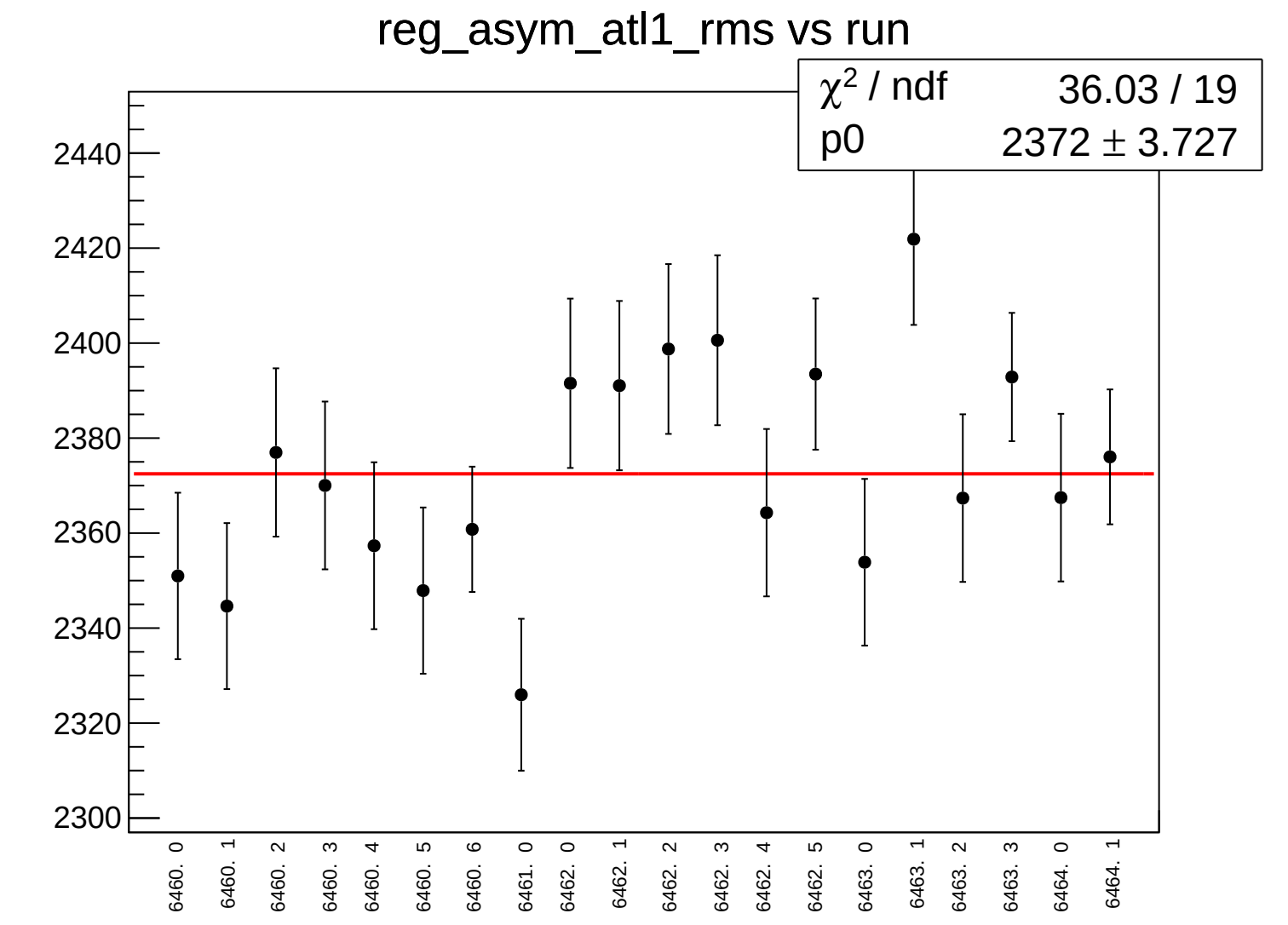

asym_us_agg_dd_mean vs run
χ² / ndf 10.18 / 19
p0 −485.2 ± 2114
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 83.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1

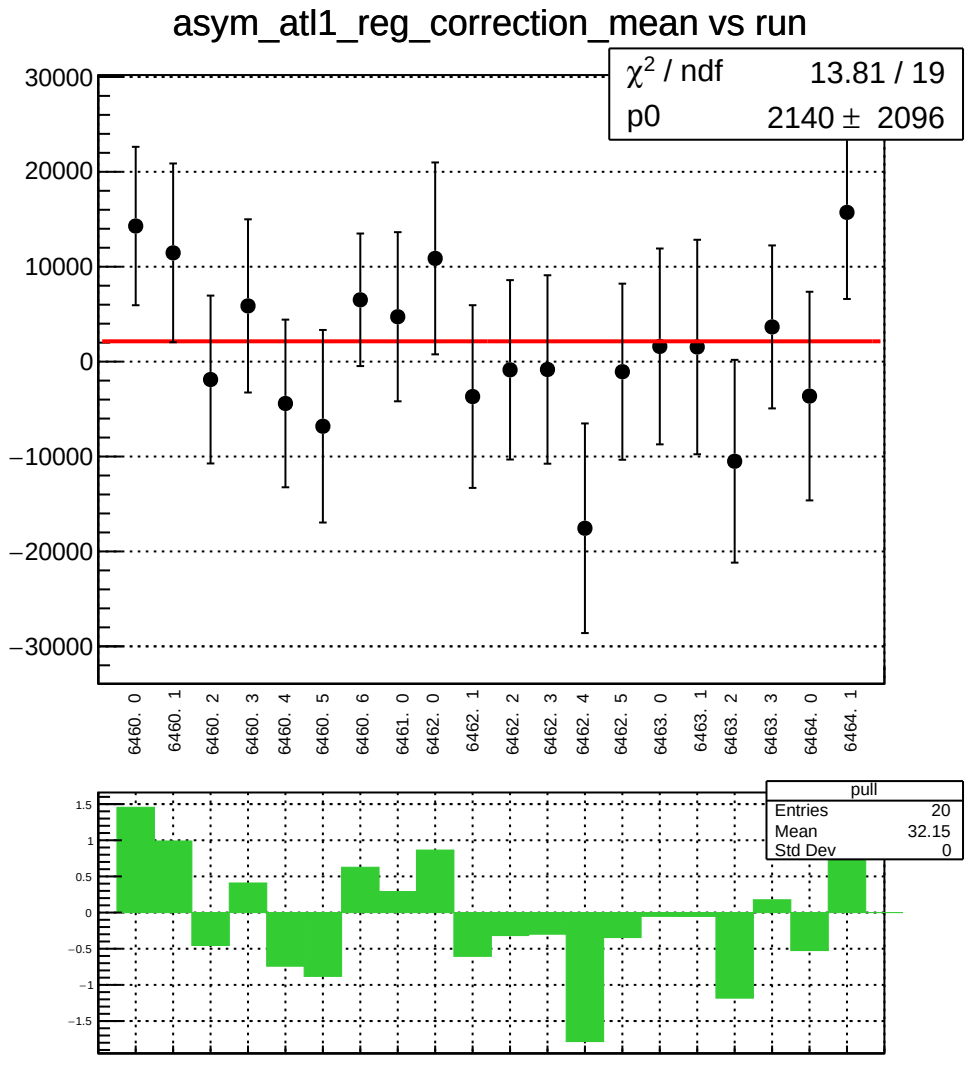

pull1D
Entries 20
Mean −0.01405
Std Dev 0.7131
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

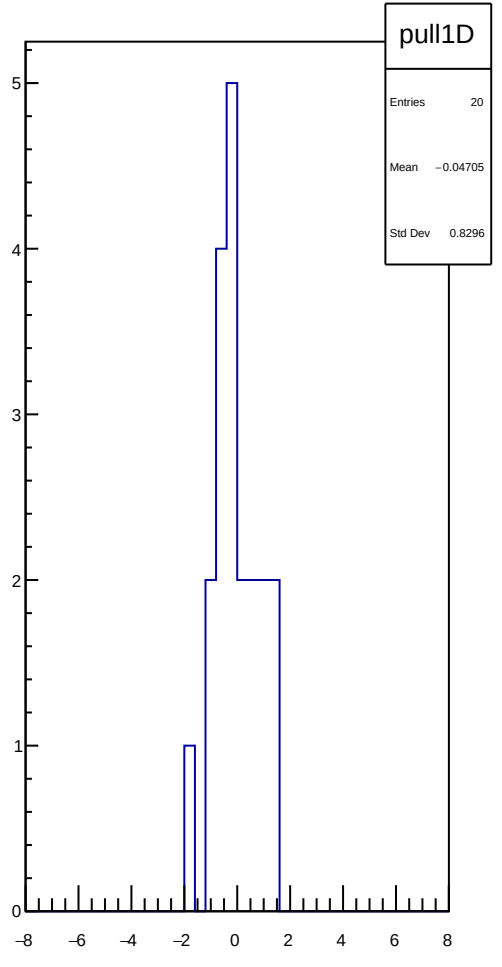

asym_us_agg_dd_rms vs run
χ^2 / ndf 113.7 / 19
p0 951.2 ± 1.495
980
960
940
920
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

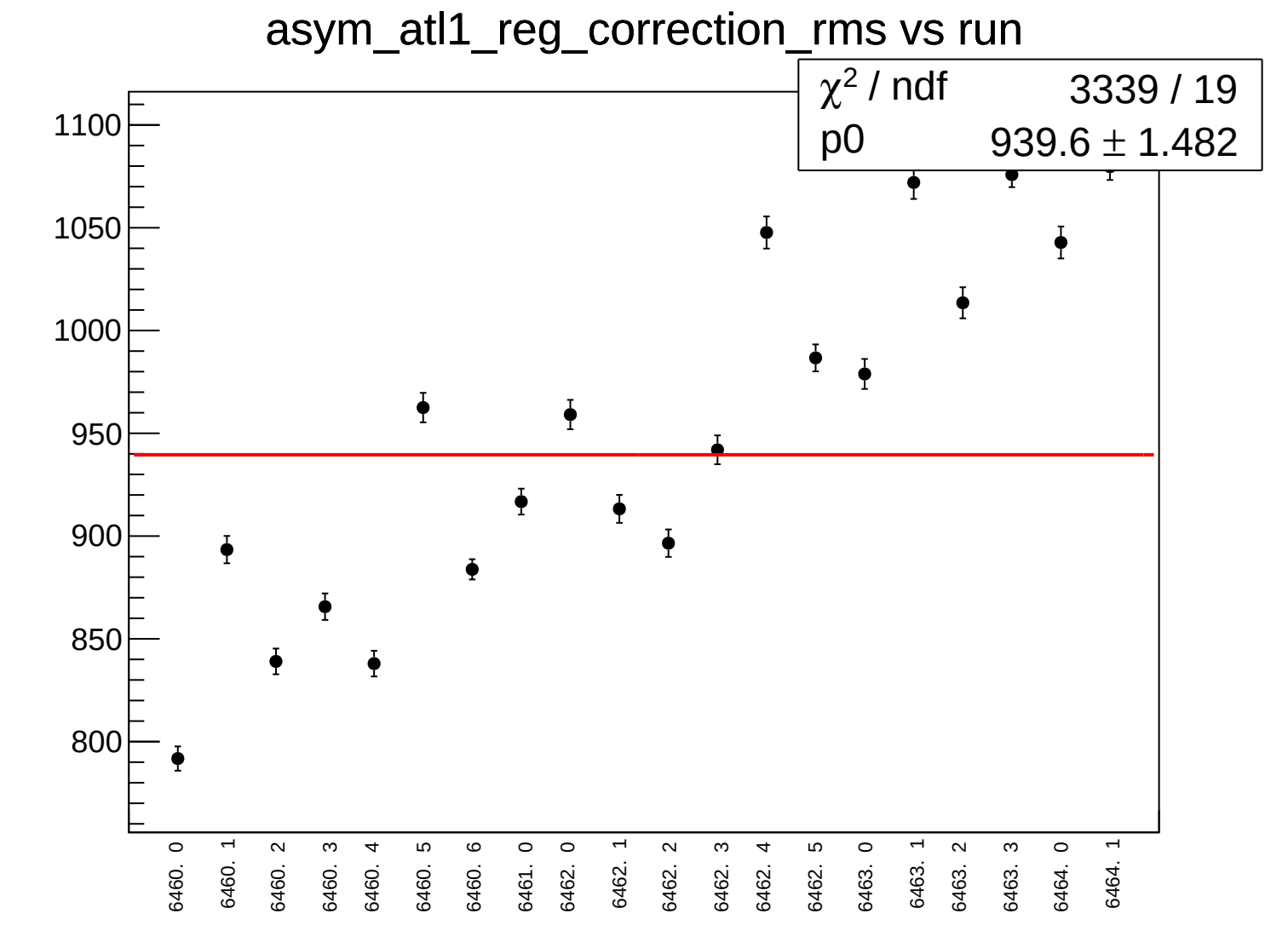

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 23.25 / 19
p0 −7748 ± 5271
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −26.01
Std Dev 0
3
2
1
0
−1
−2

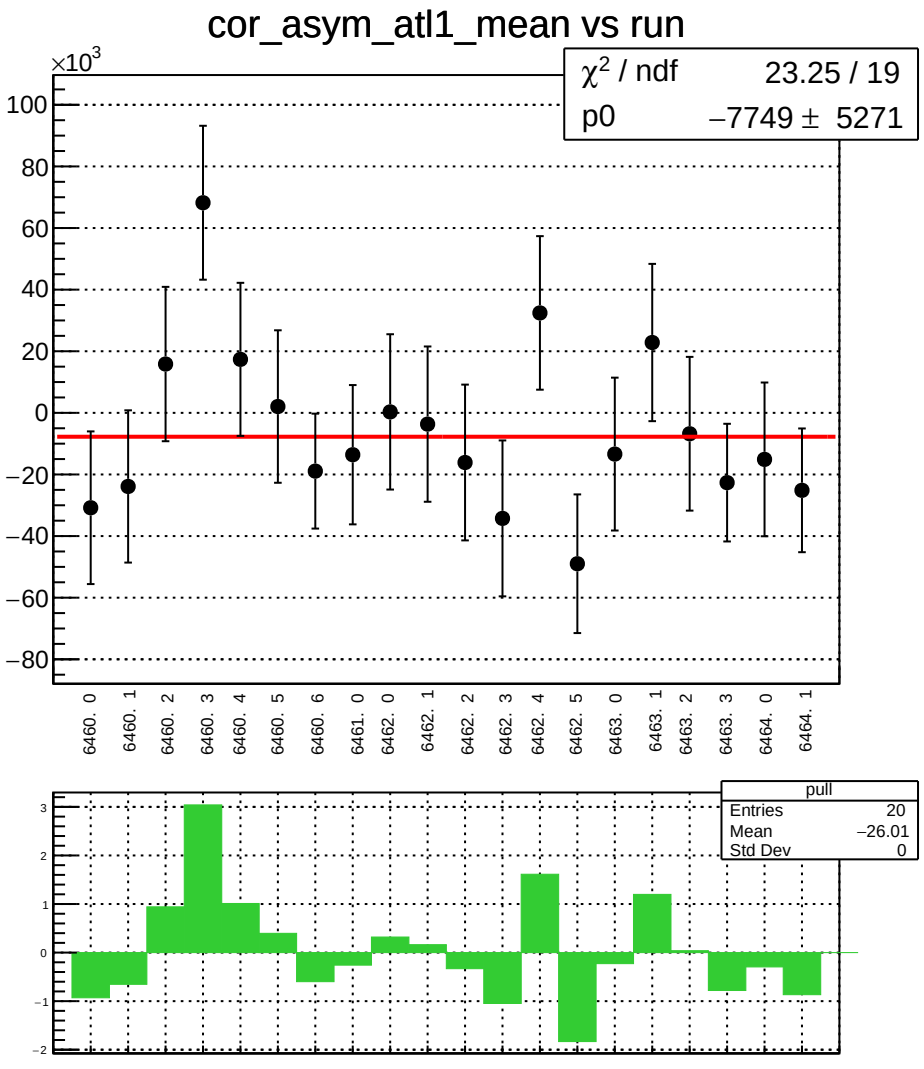

pull1D
Entries 20
Mean 0.04511
Std Dev 1.077
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

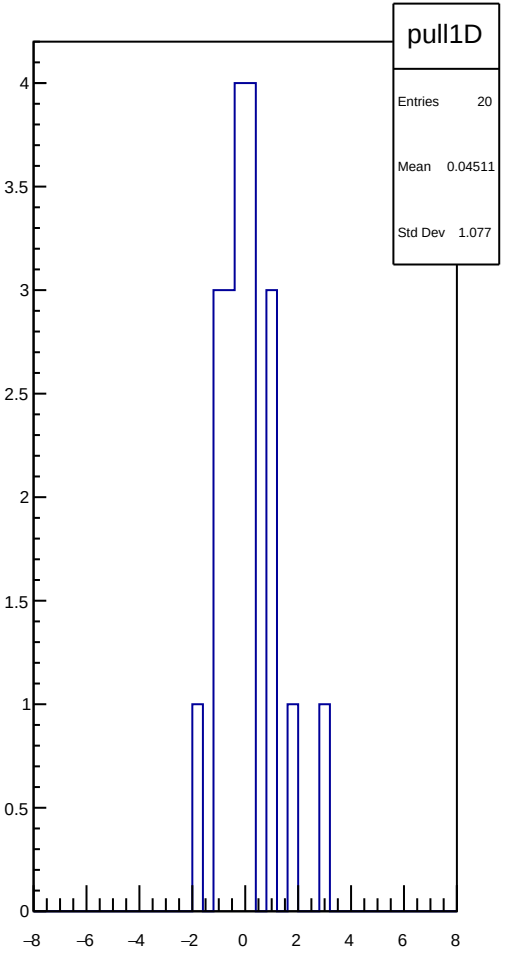

reg_asym_atl1_rms vs run
χ² / ndf 36.03 / 19
p0 2372 ± 3.727
2440
2420
2400
2380
2360
2340
2320
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

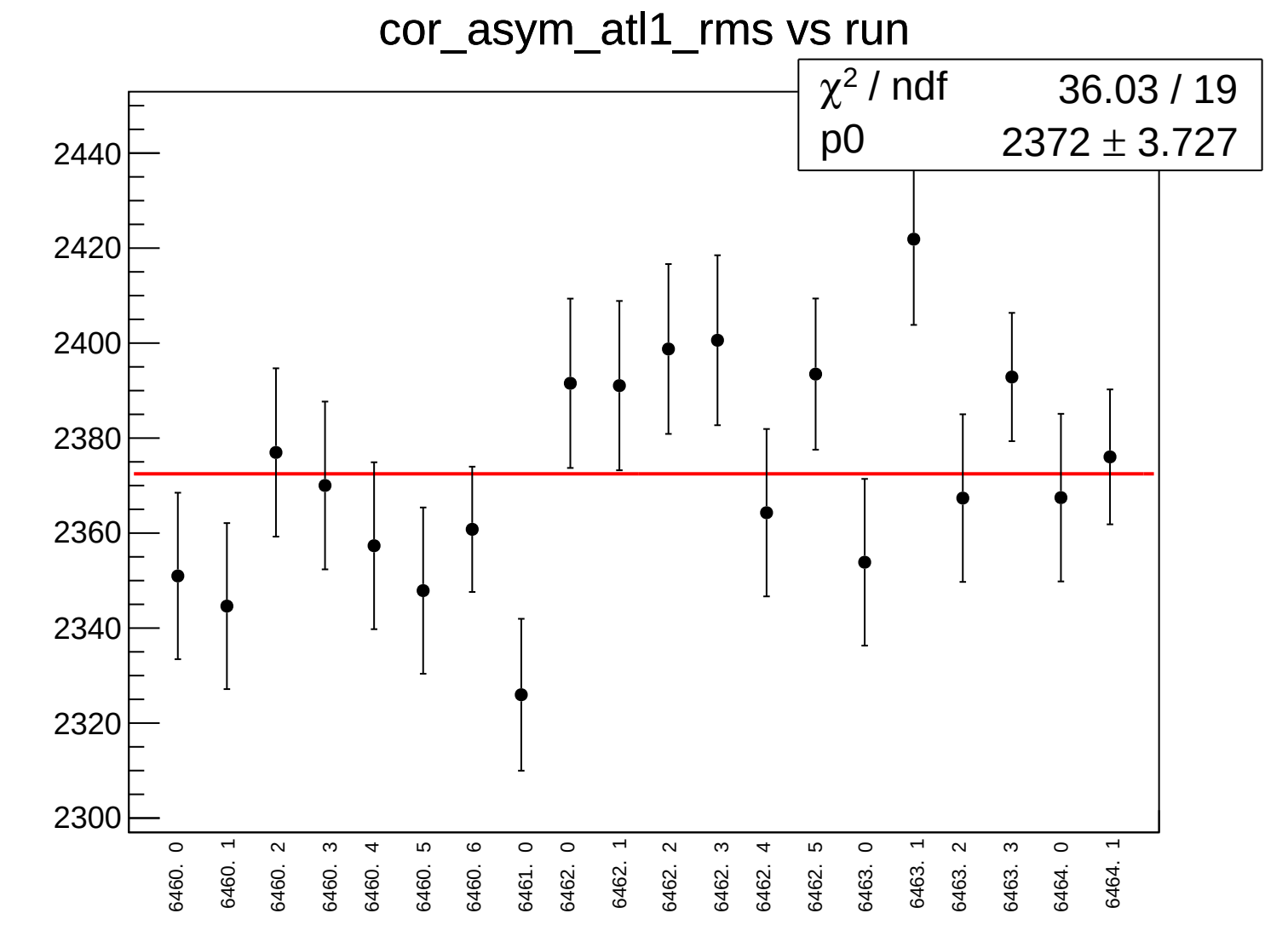

asym_atl1_reg_correction_mean vs run
χ² / ndf 13.81 / 19
p0 2140 ± 2096
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

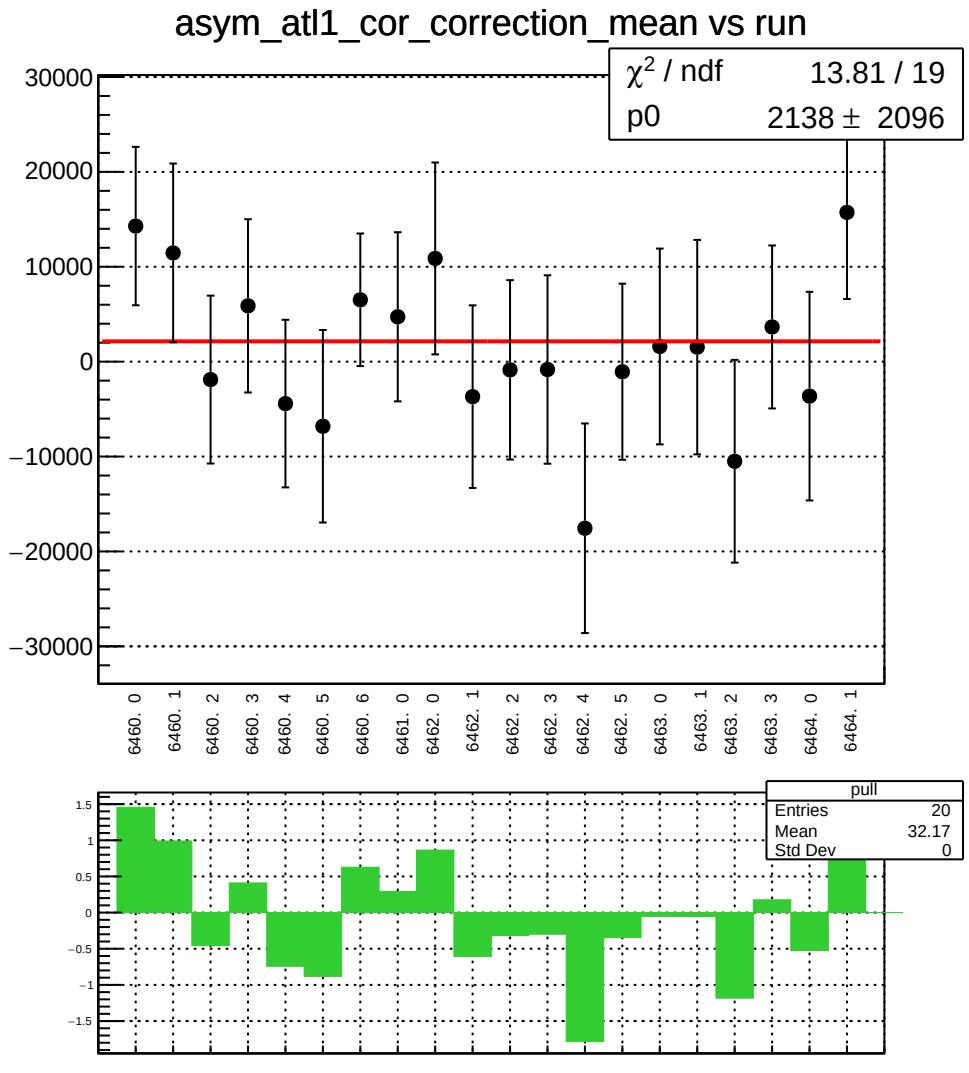

pull1D
Entries 20
Mean −0.04705
Std Dev 0.8296
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

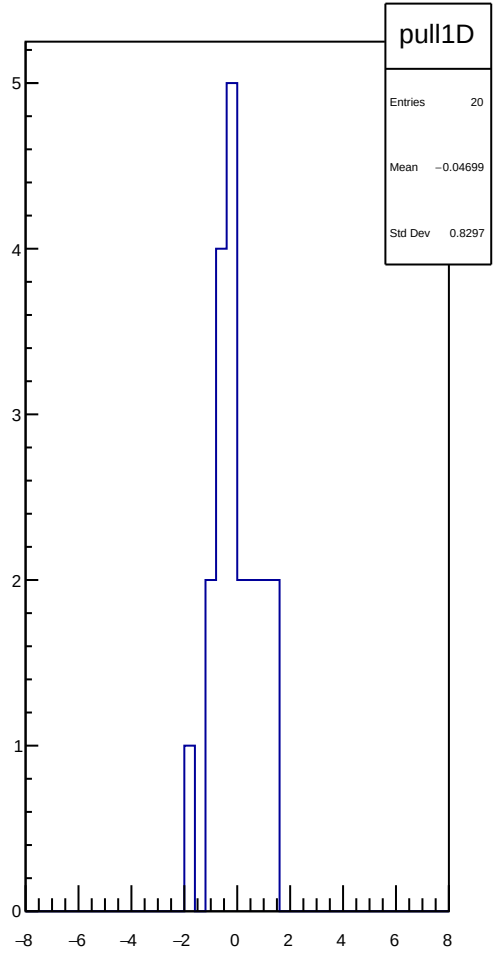

asym_atl1_reg_correction_rms vs run
χ² / ndf 3339 / 19
p0 939.6 ± 1.482
1100
1050
1000
950
900
850
800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

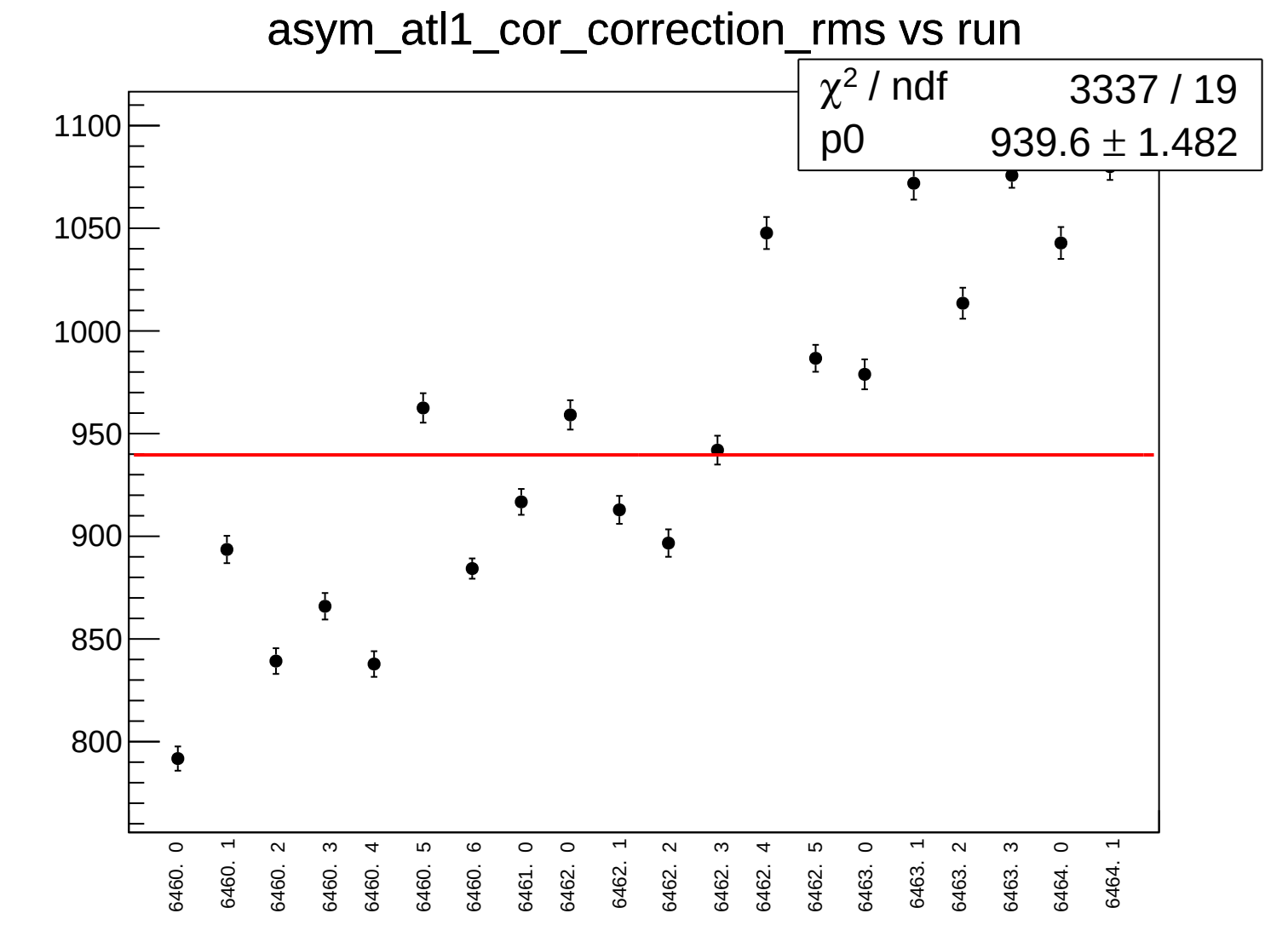

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 23.25 / 19
p0 −7749 ± 5271
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −26.01
Std Dev 0
3
2
1
0
−1
−2

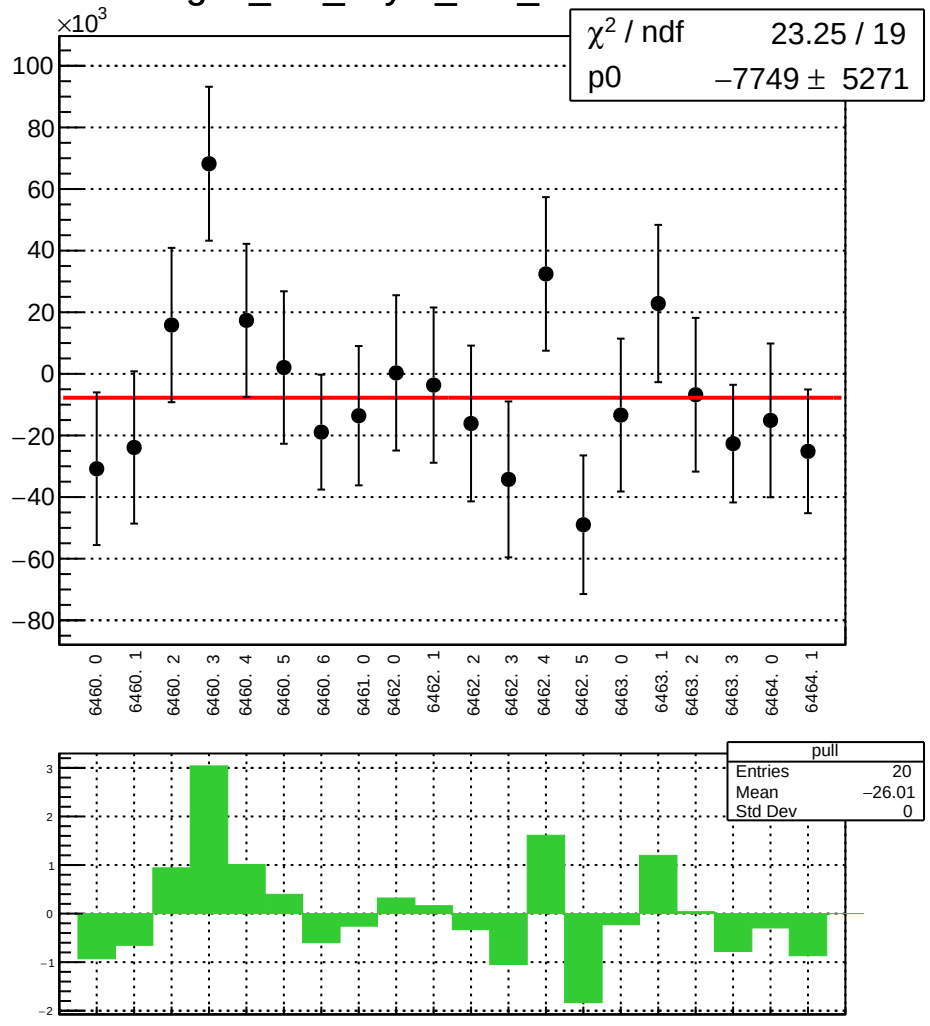

pull1D
Entries 20
Mean 0.04511
Std Dev 1.077
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

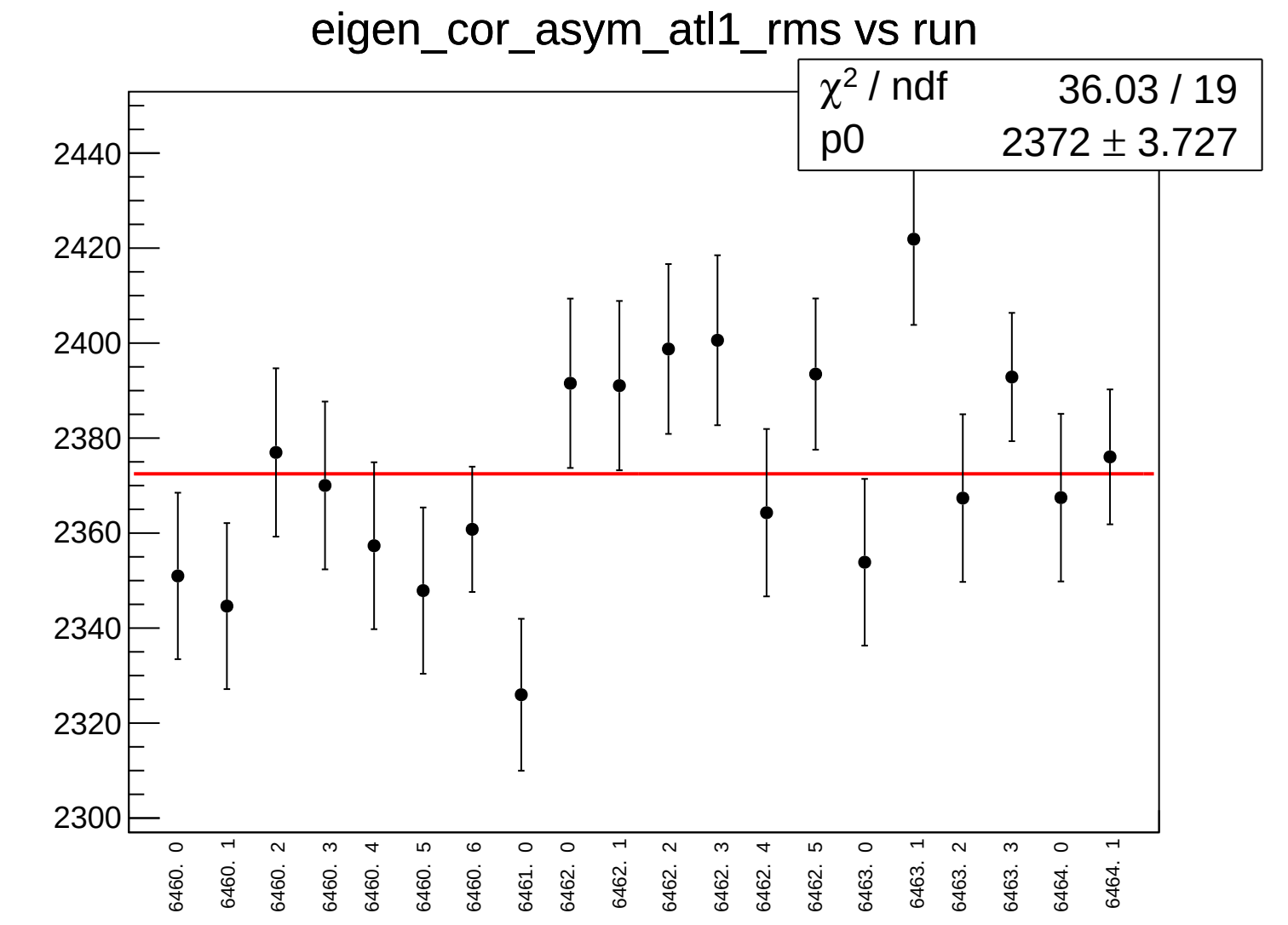

cor_asym_atl1_rms vs run
χ² / ndf 36.03 / 19
p0 2372 ± 3.727
2440
2420
2400
2380
2360
2340
2320
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

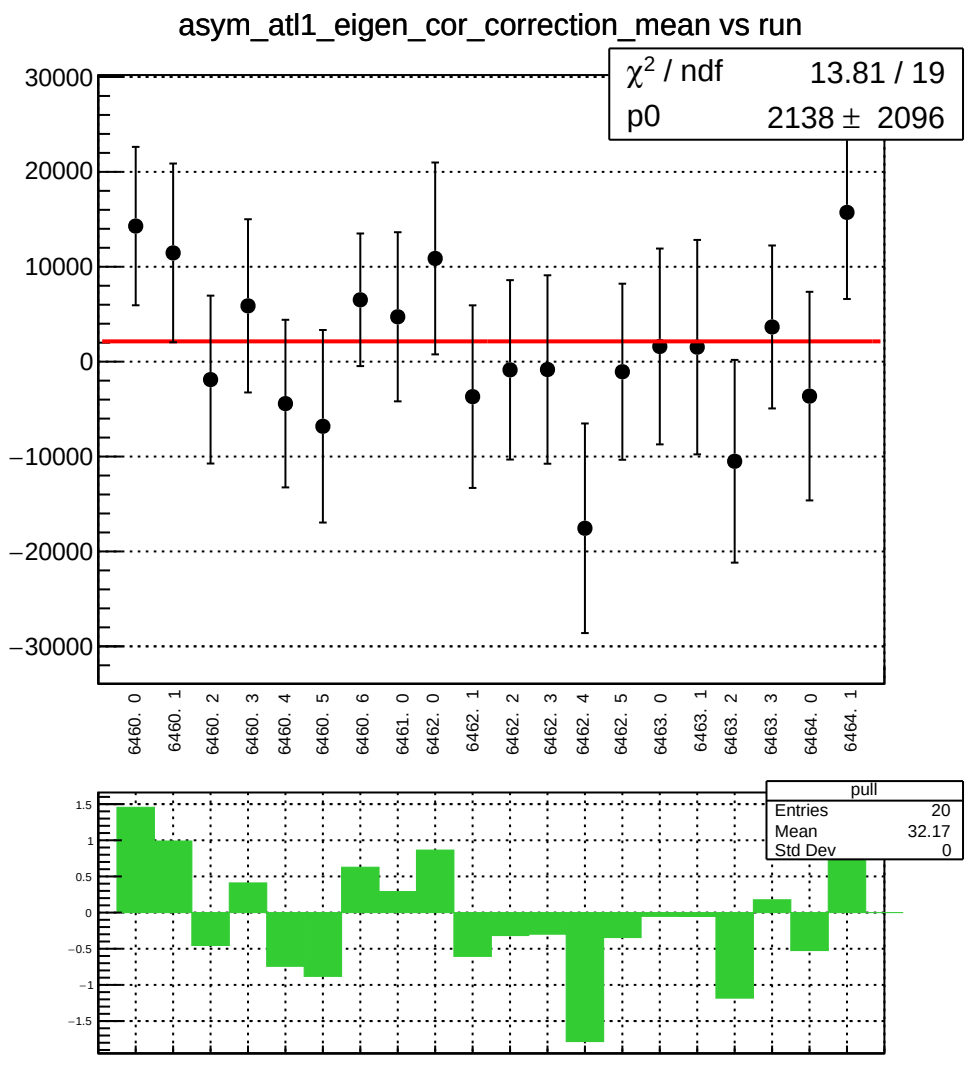

asym_atl1_cor_correction_mean vs run
χ² / ndf 13.81 / 19
p0 2138 ± 2096
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

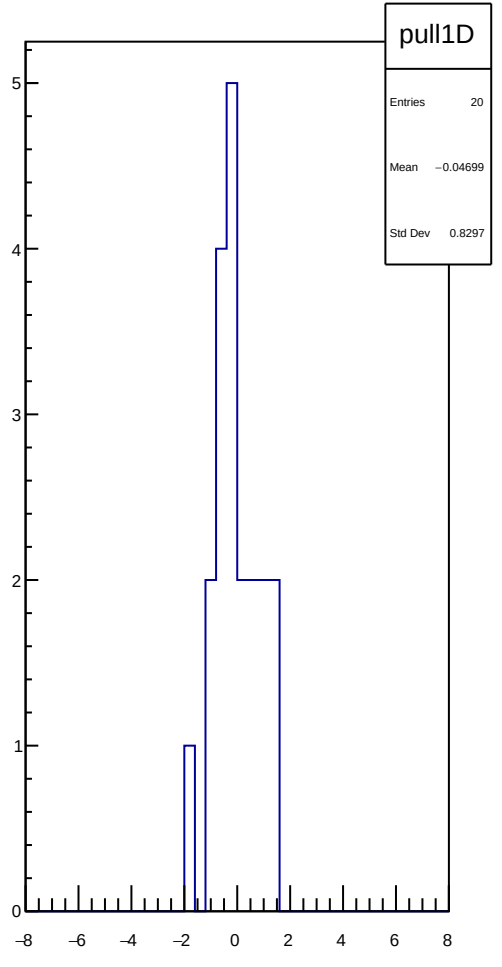

pull1D
Entries 20
Mean −0.04699
Std Dev 0.8297
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

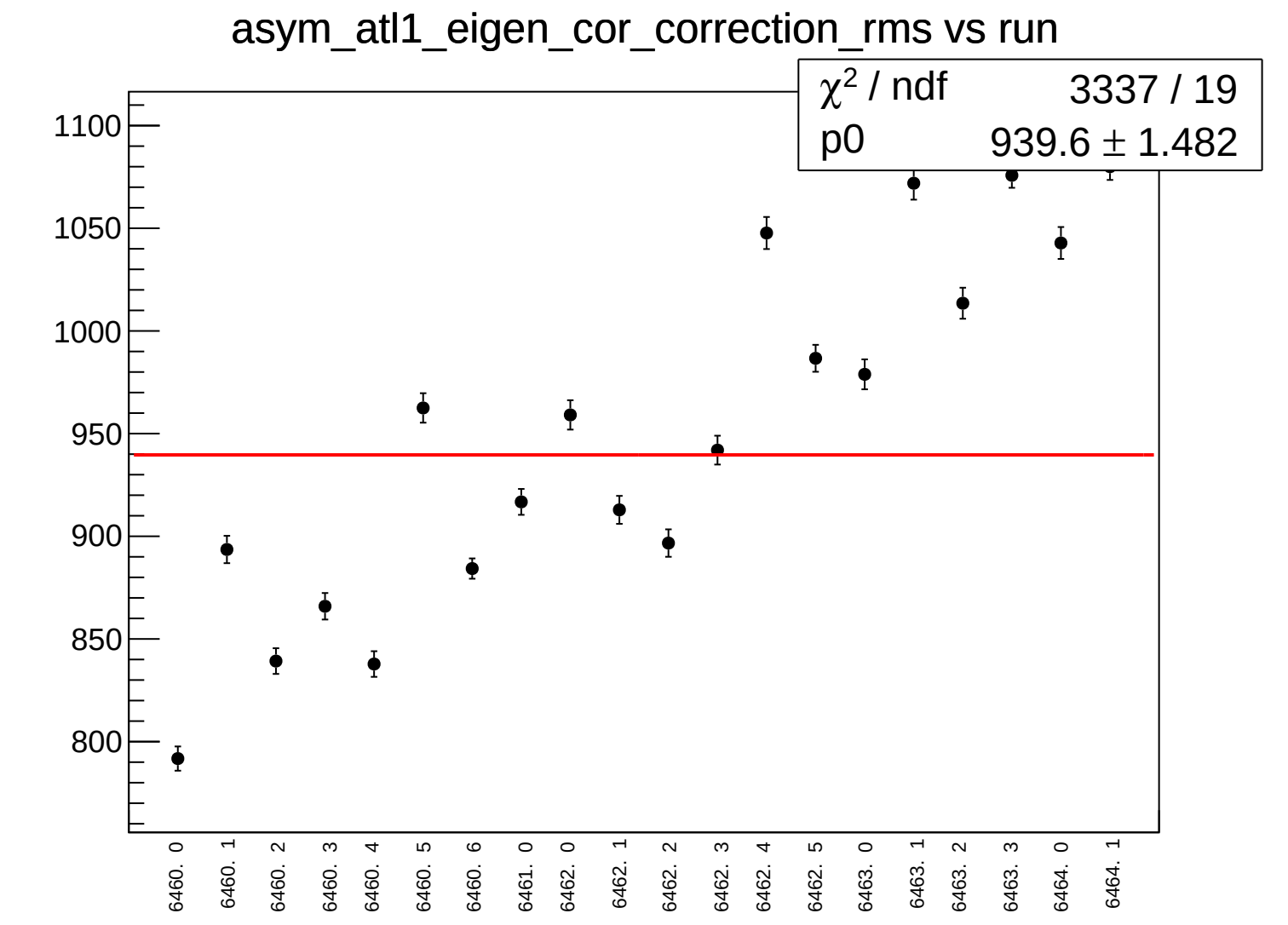

asym_atl1_cor_correction_rms vs run
χ² / ndf 3337 / 19
p0 939.6 ± 1.482
1100
1050
1000
950
900
850
800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

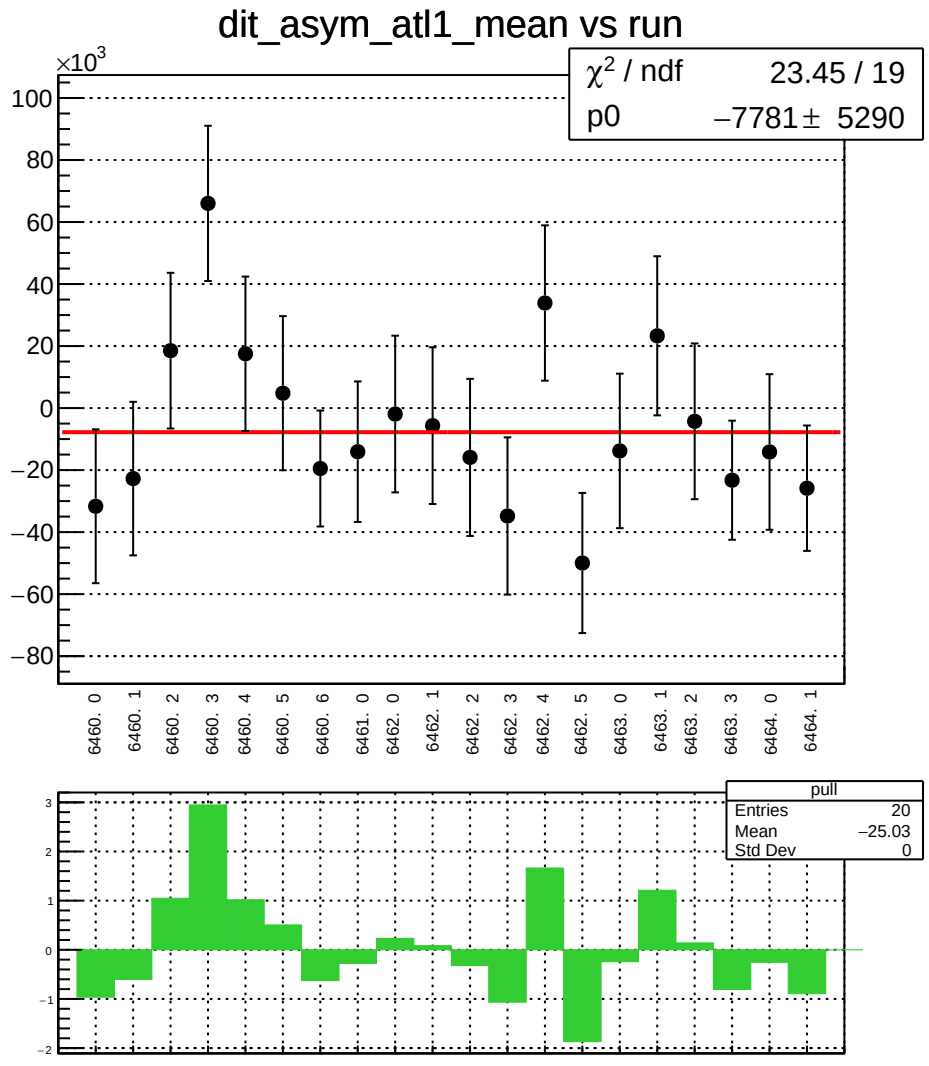

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 23.25 / 19
p0 −7749 ± 5271
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −26.01
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.04511
Std Dev 1.077
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

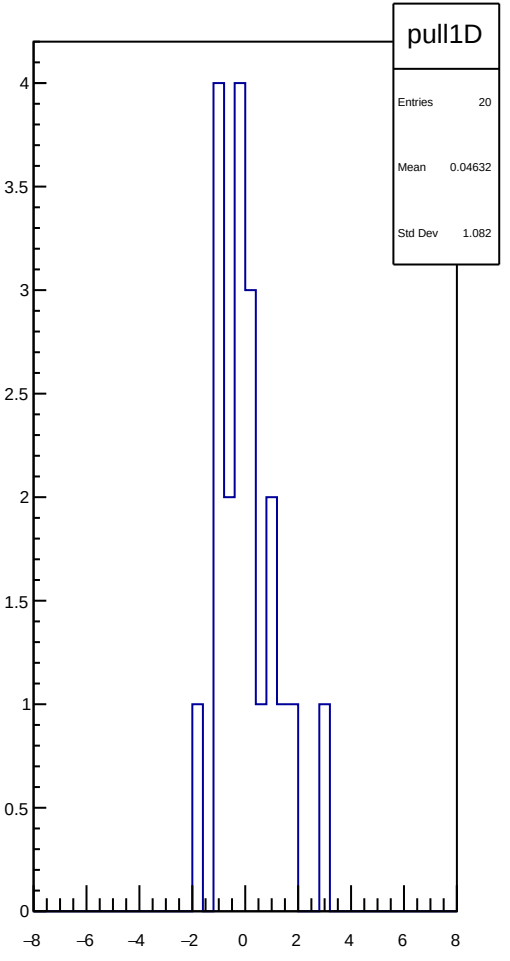

eigen_cor_asym_atl1_rms vs run
χ² / ndf 36.03 / 19
p0 2372 ± 3.727
2440
2420
2400
2380
2360
2340
2320
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

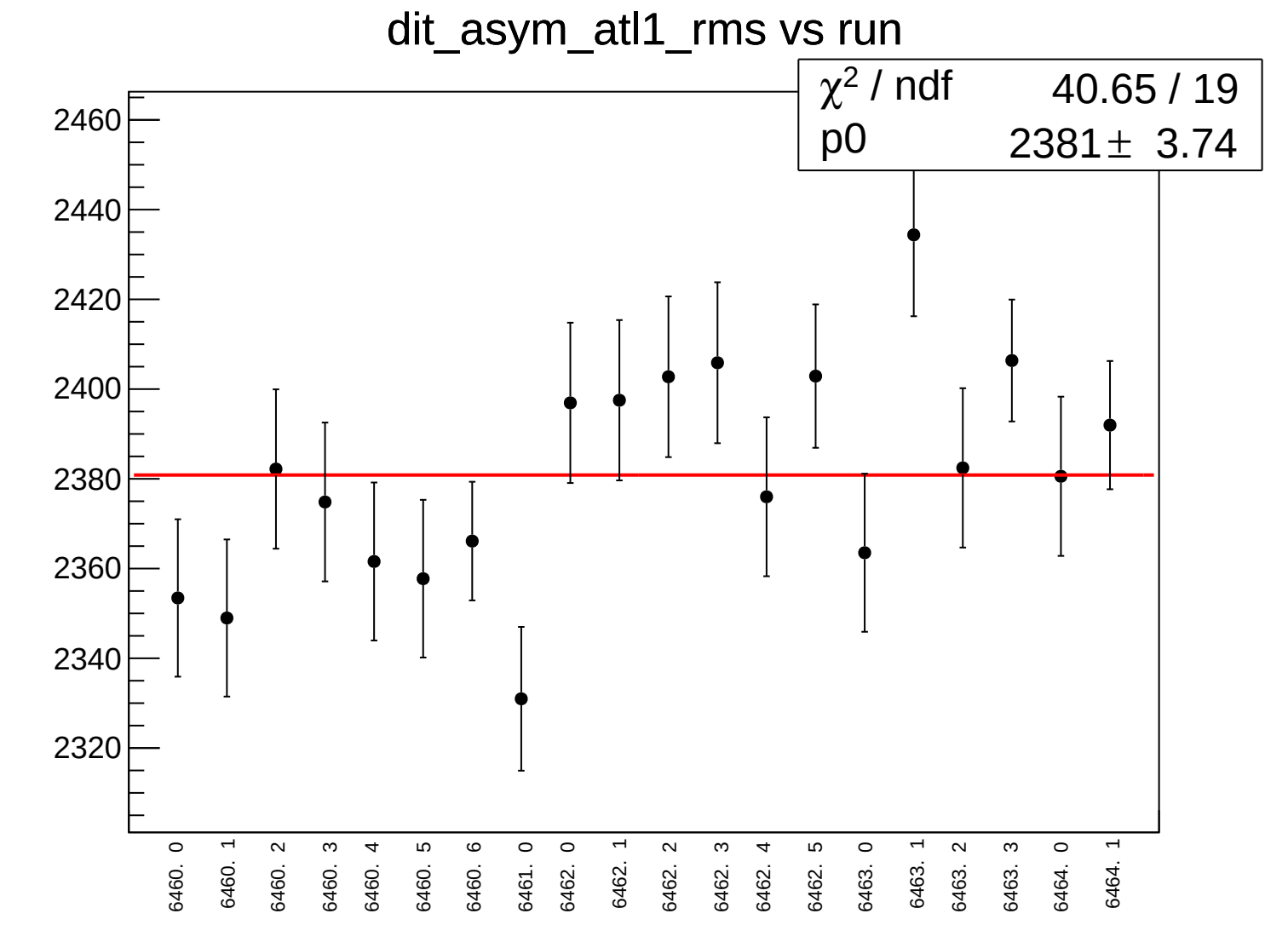

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 13.81 / 19
p0 2138 ± 2096
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

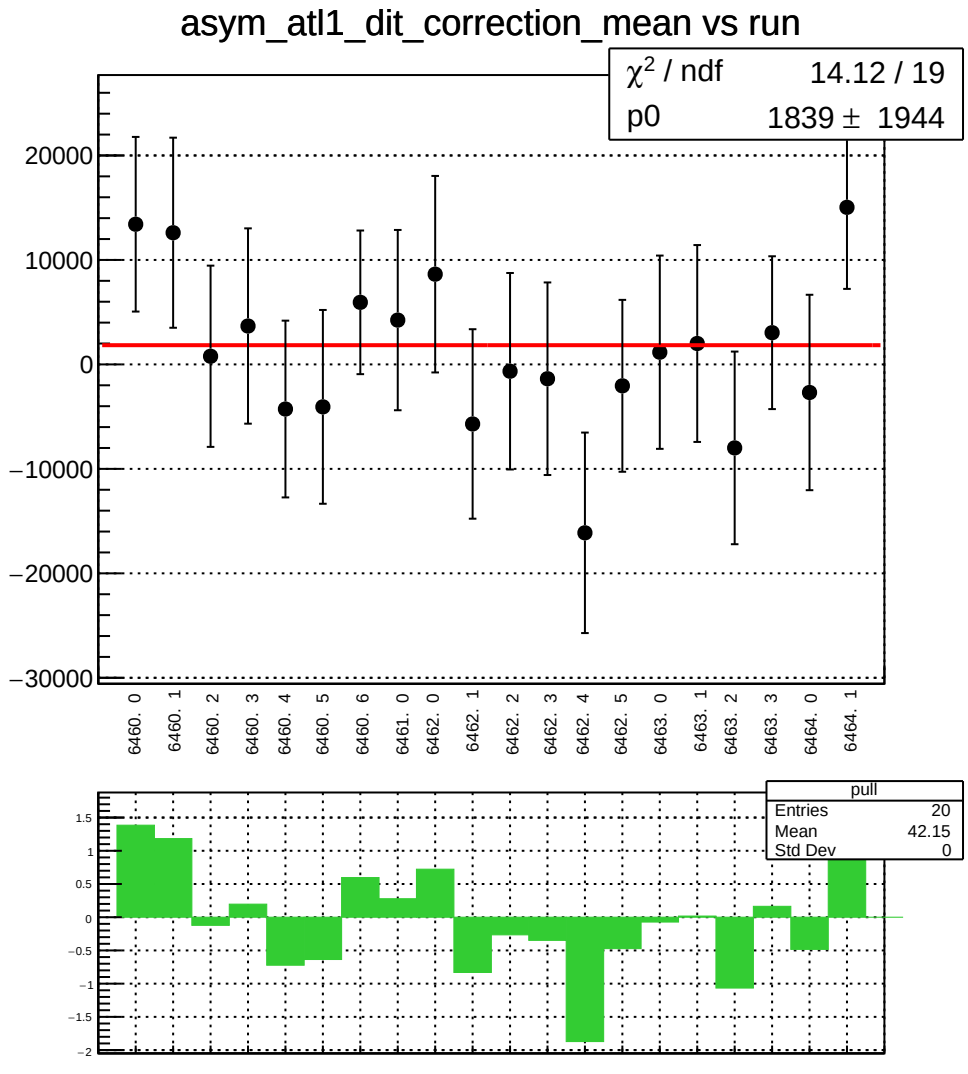

pull1D
Entries 20
Mean −0.04699
Std Dev 0.8297
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

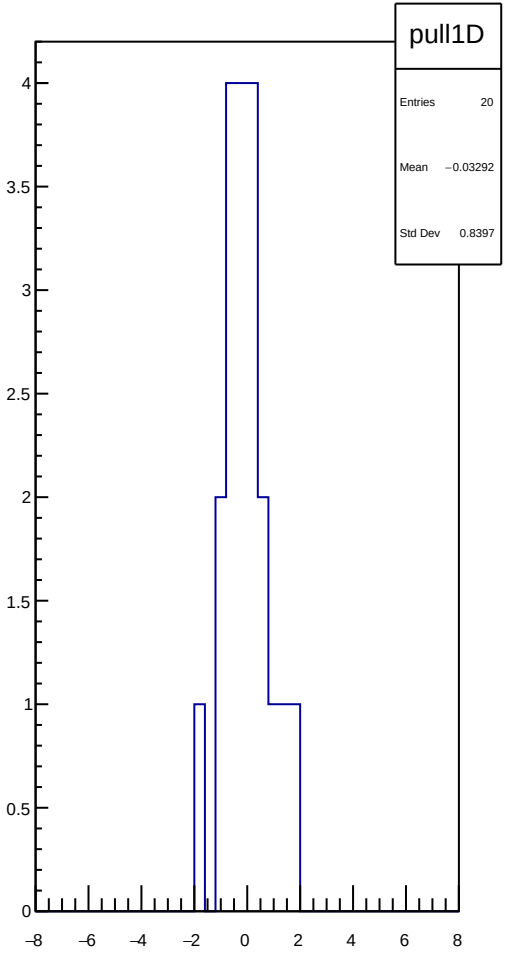

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 3337 / 19
p0 939.6 ± 1.482
1100
1050
1000
950
900
850
800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

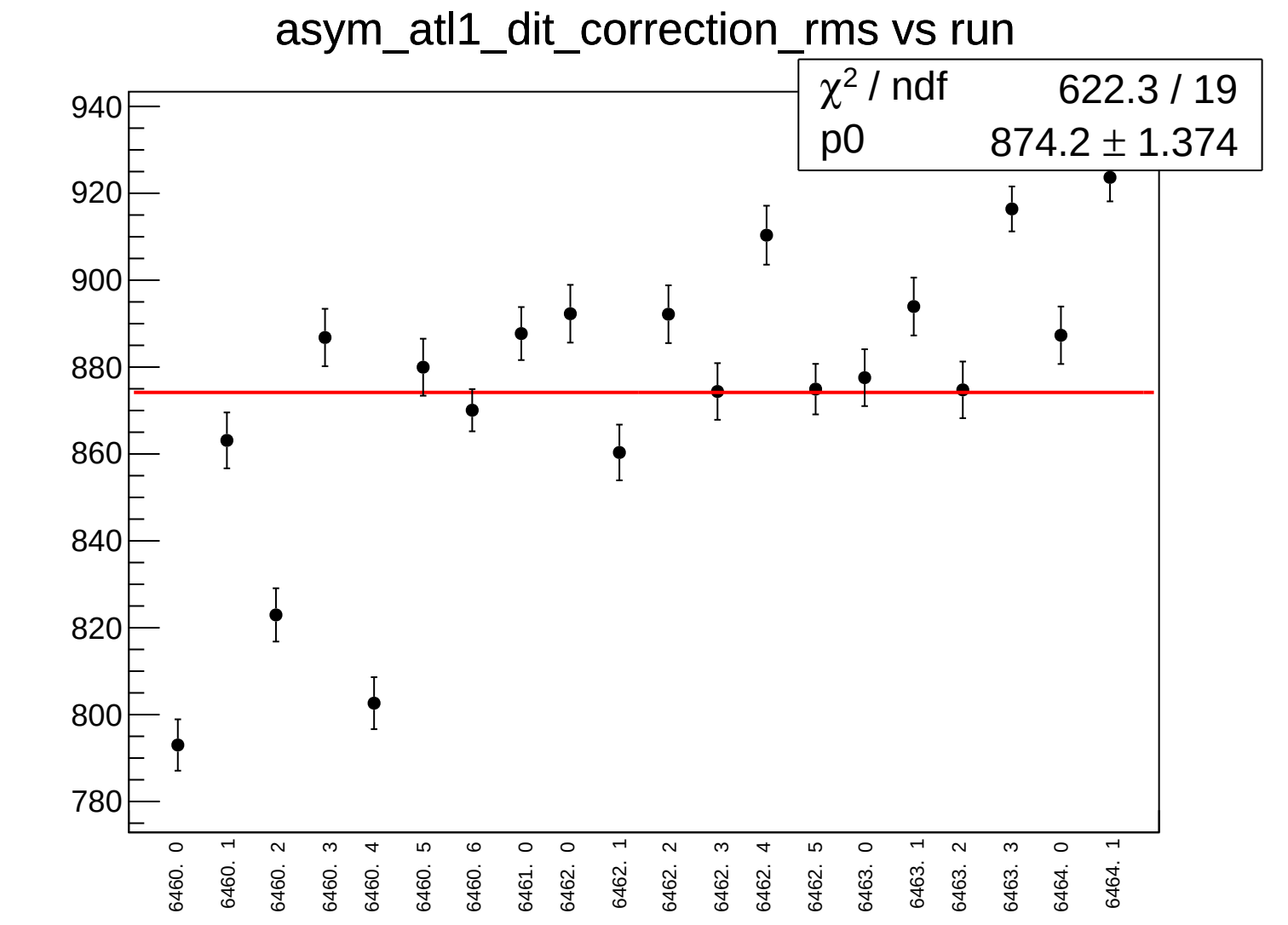

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 23.45 / 19
p0 −7781 ± 5290
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −25.03
Std Dev 0
3
2
1
0
−1
−2

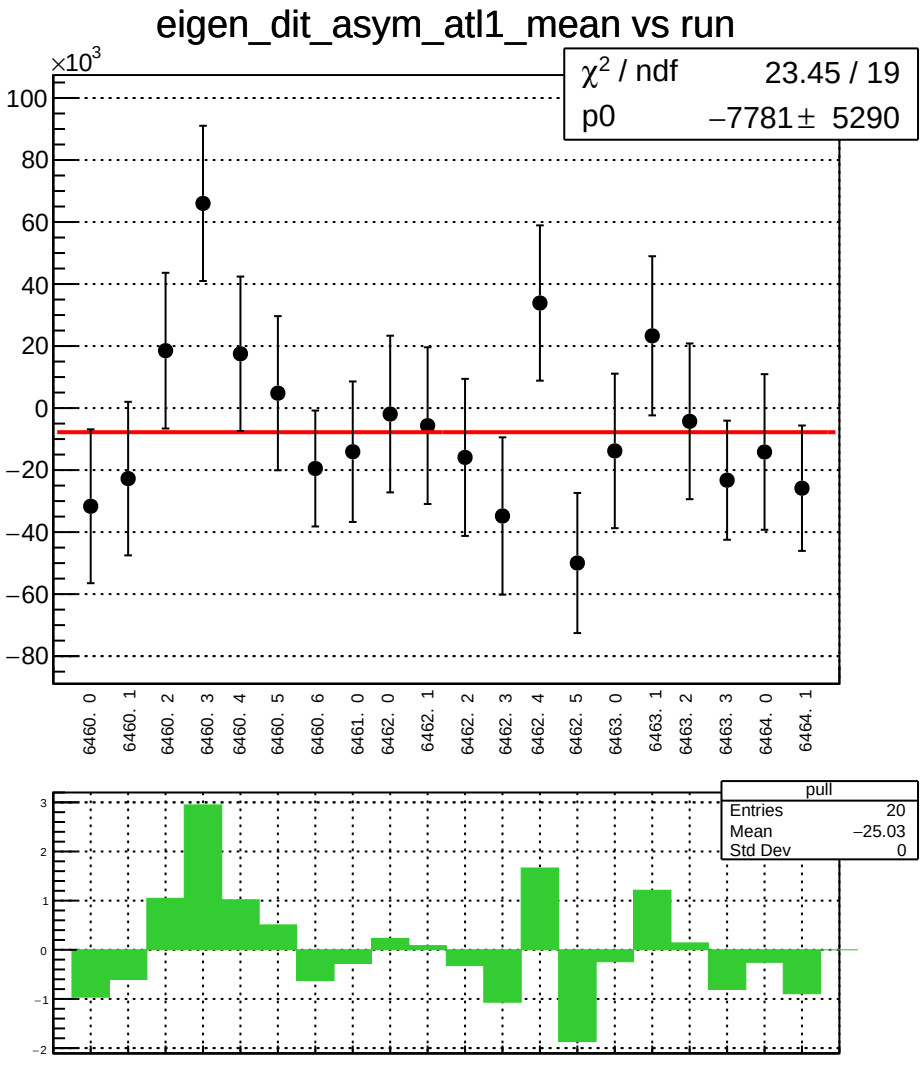

pull1D
Entries 20
Mean 0.04632
Std Dev 1.082
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

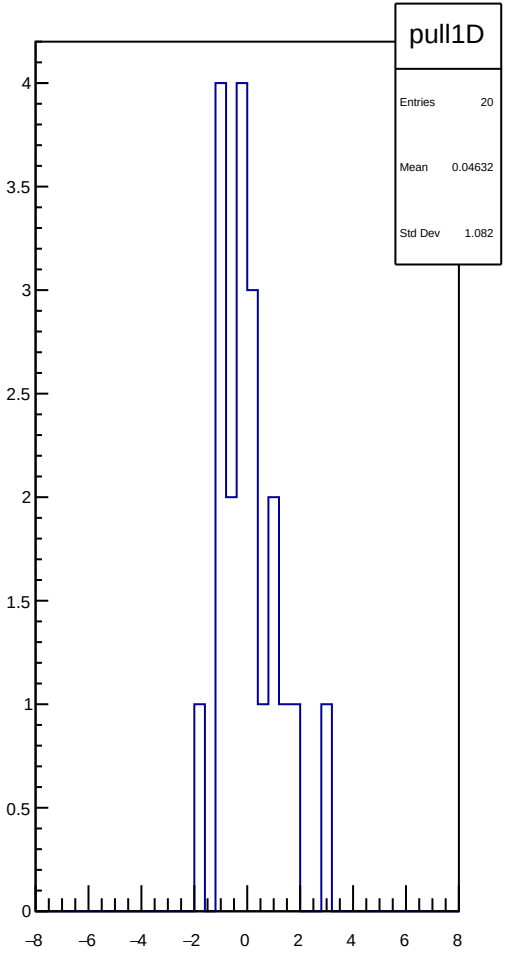

dit_asym_atl1_rms vs run
χ² / ndf 40.65 / 19
p0 2381 ± 3.74
2460
2440
2420
2400
2380
2360
2340
2320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

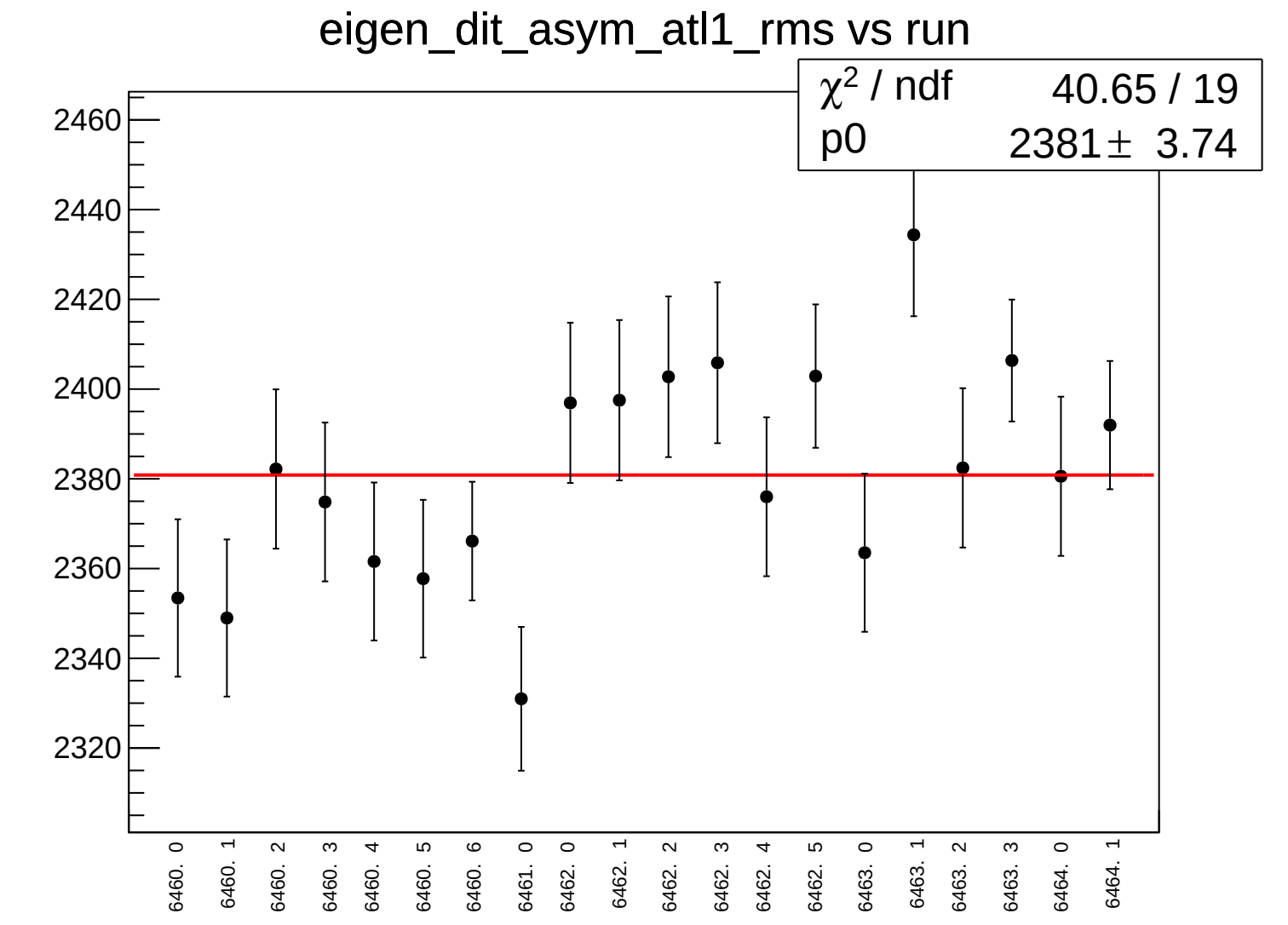

asym_atl1_dit_correction_mean vs run
χ² / ndf 14.12 / 19
p0 1839 ± 1944
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 42.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

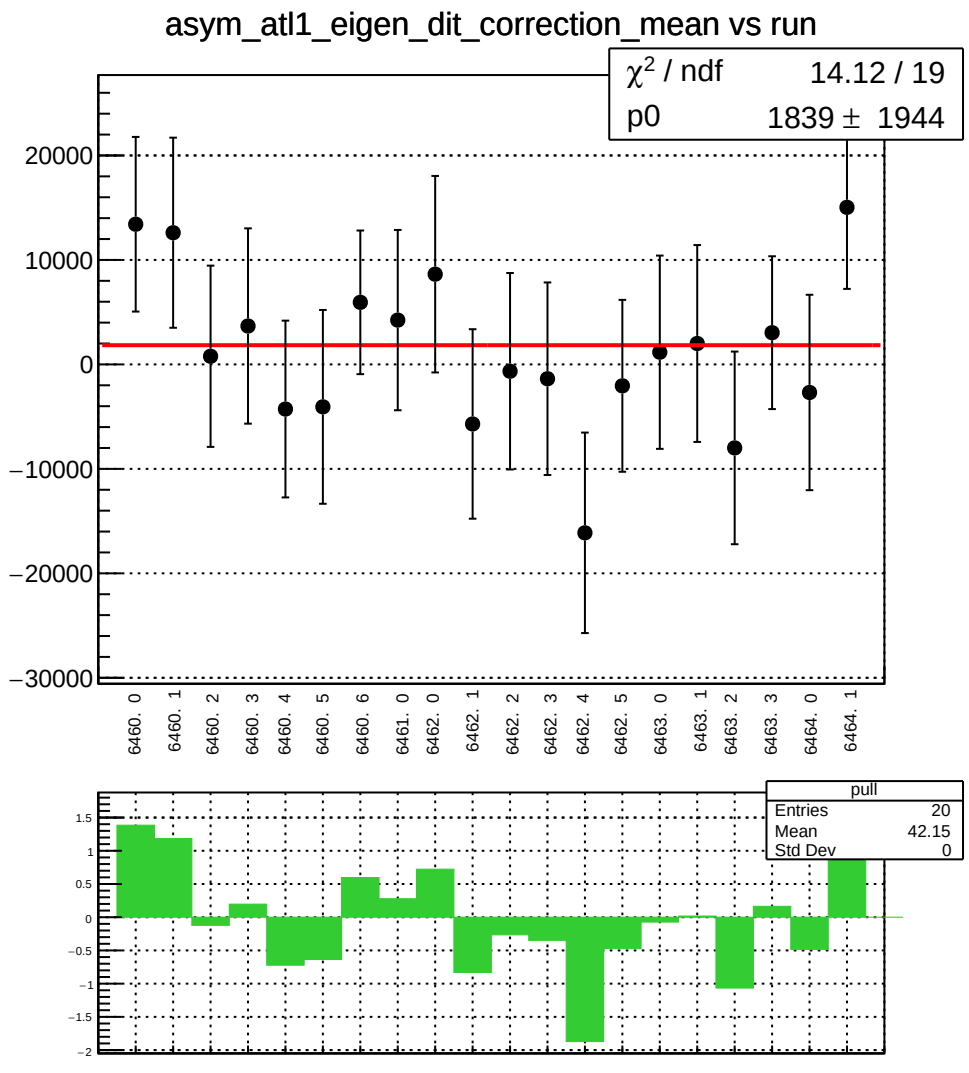

pull1D
Entries 20
Mean −0.03292
Std Dev 0.8397
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

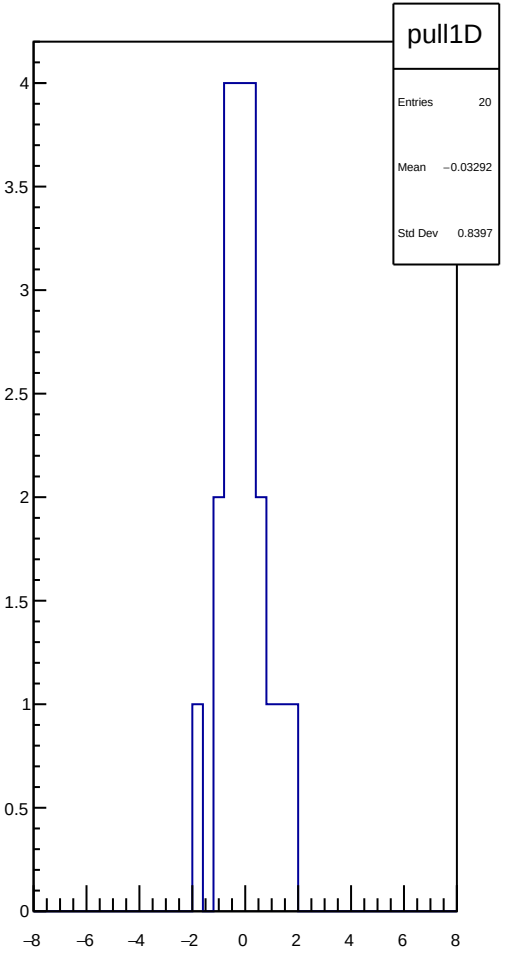

asym_atl1_dit_correction_rms vs run
χ² / ndf 622.3 / 19
p0 874.2 ± 1.374
940
920
900
880
860
840
820
800
780
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

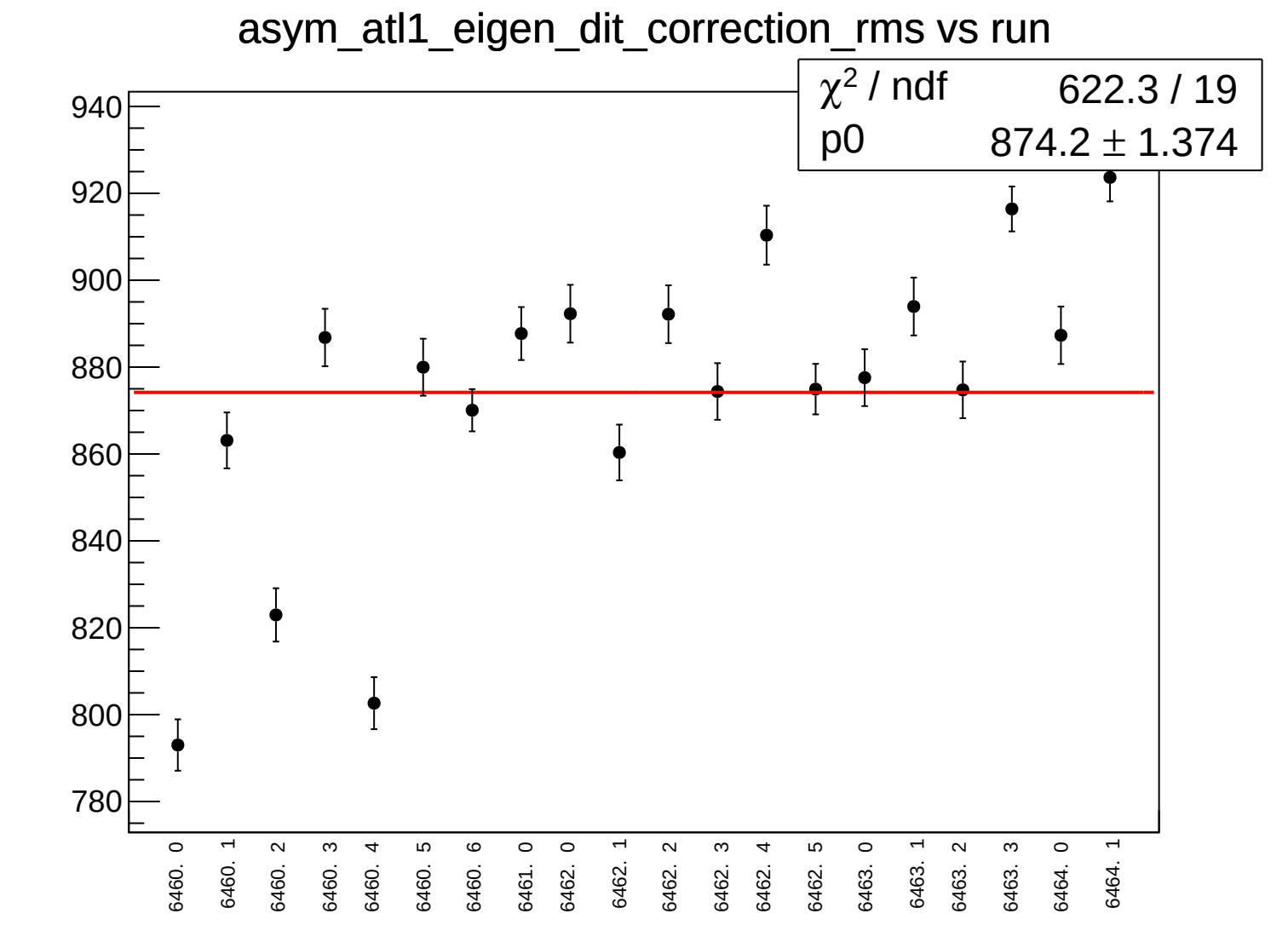

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 23.45 / 19
p0 −7781 ± 5290
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −25.03
Std Dev 0
3
2
1
0
−1
−2

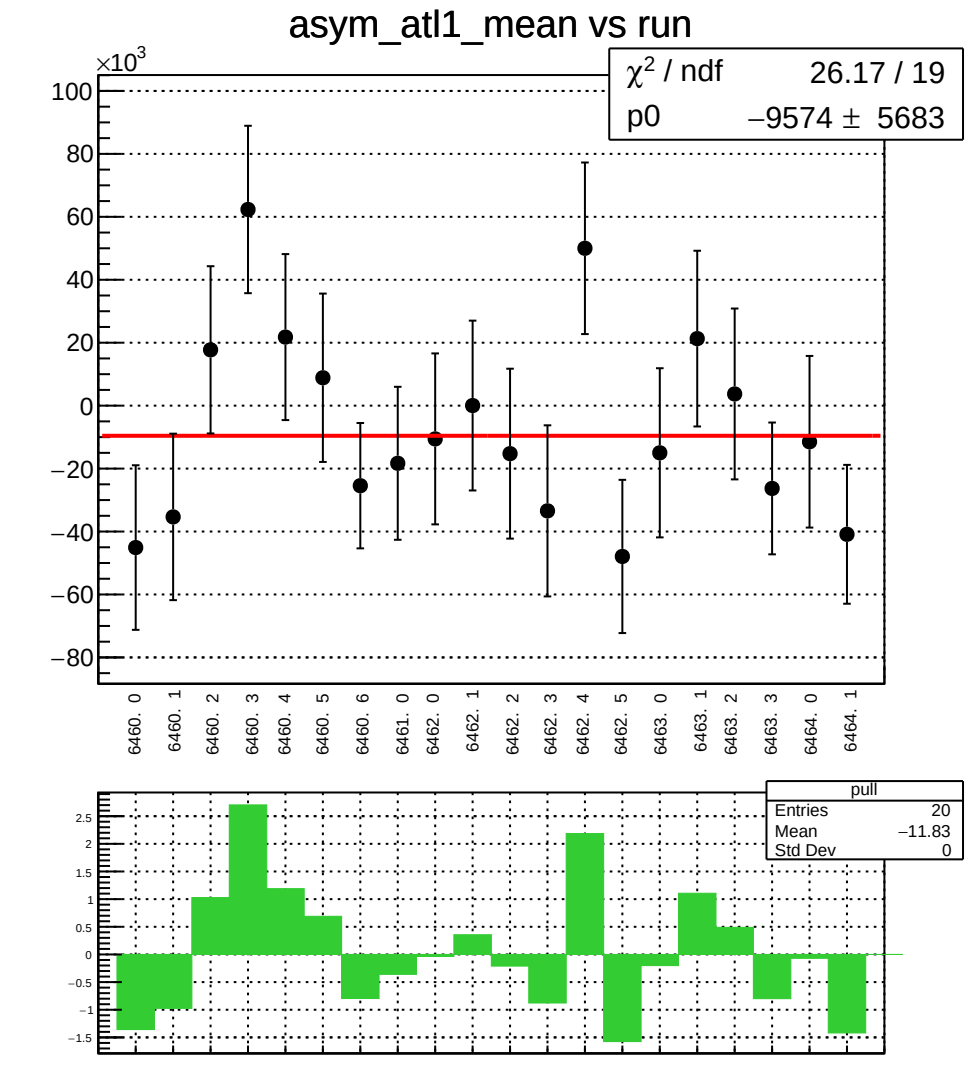

pull1D
Entries 20
Mean 0.04632
Std Dev 1.082
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

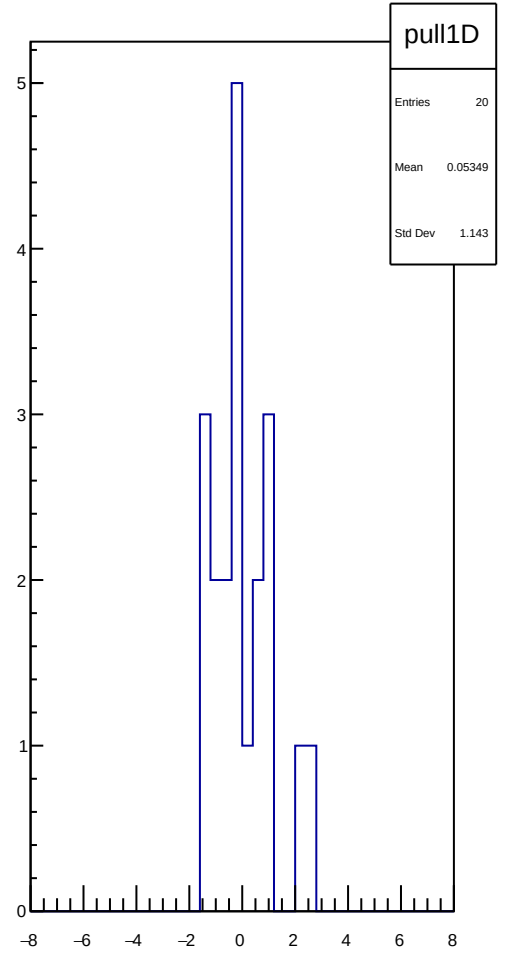

eigen_dit_asym_atl1_rms vs run
χ² / ndf 40.65 / 19
p0 2381 ± 3.74
2460
2440
2420
2400
2380
2360
2340
2320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

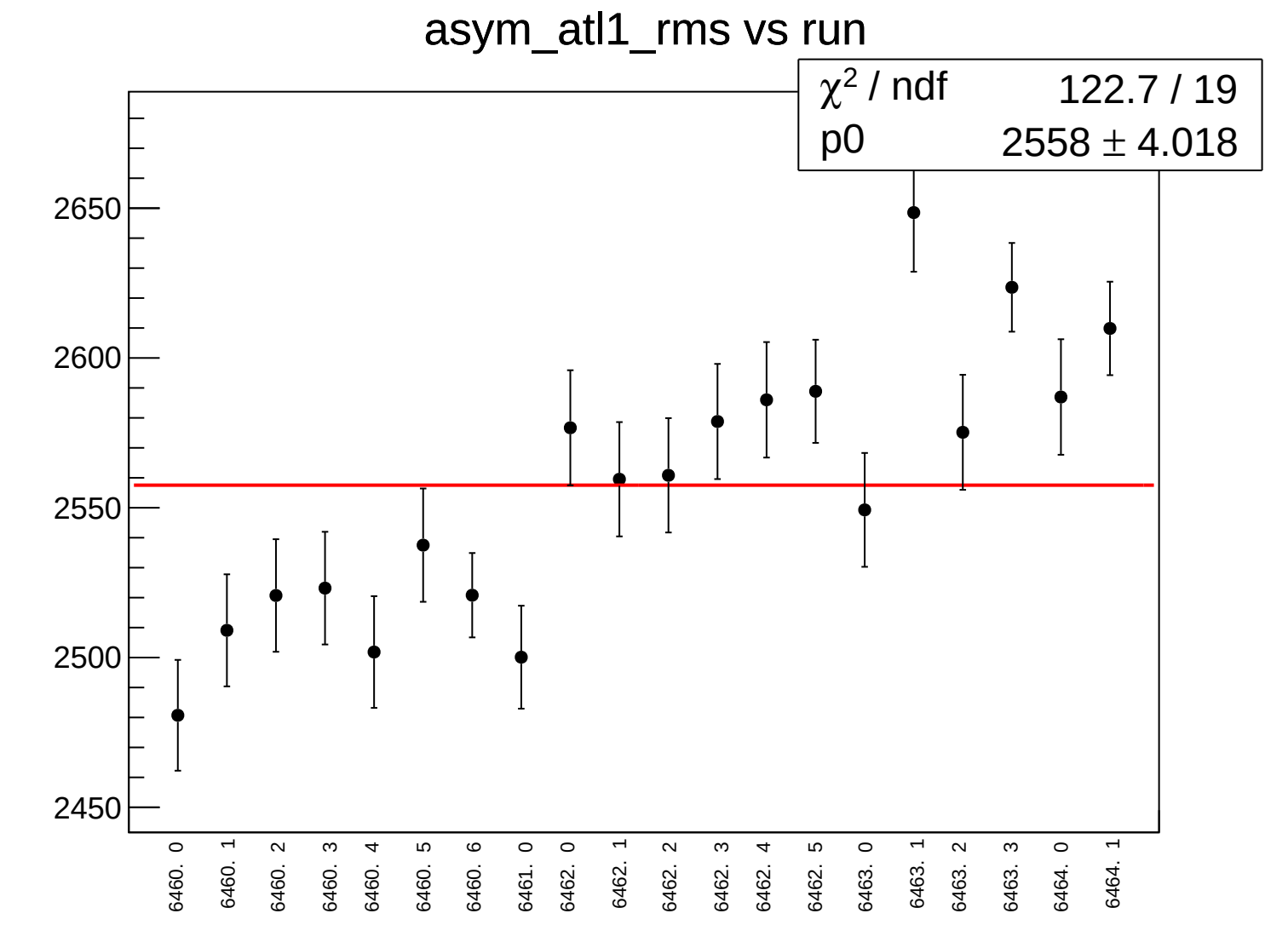

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 14.12 / 19
p0 1839 ± 1944
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 42.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

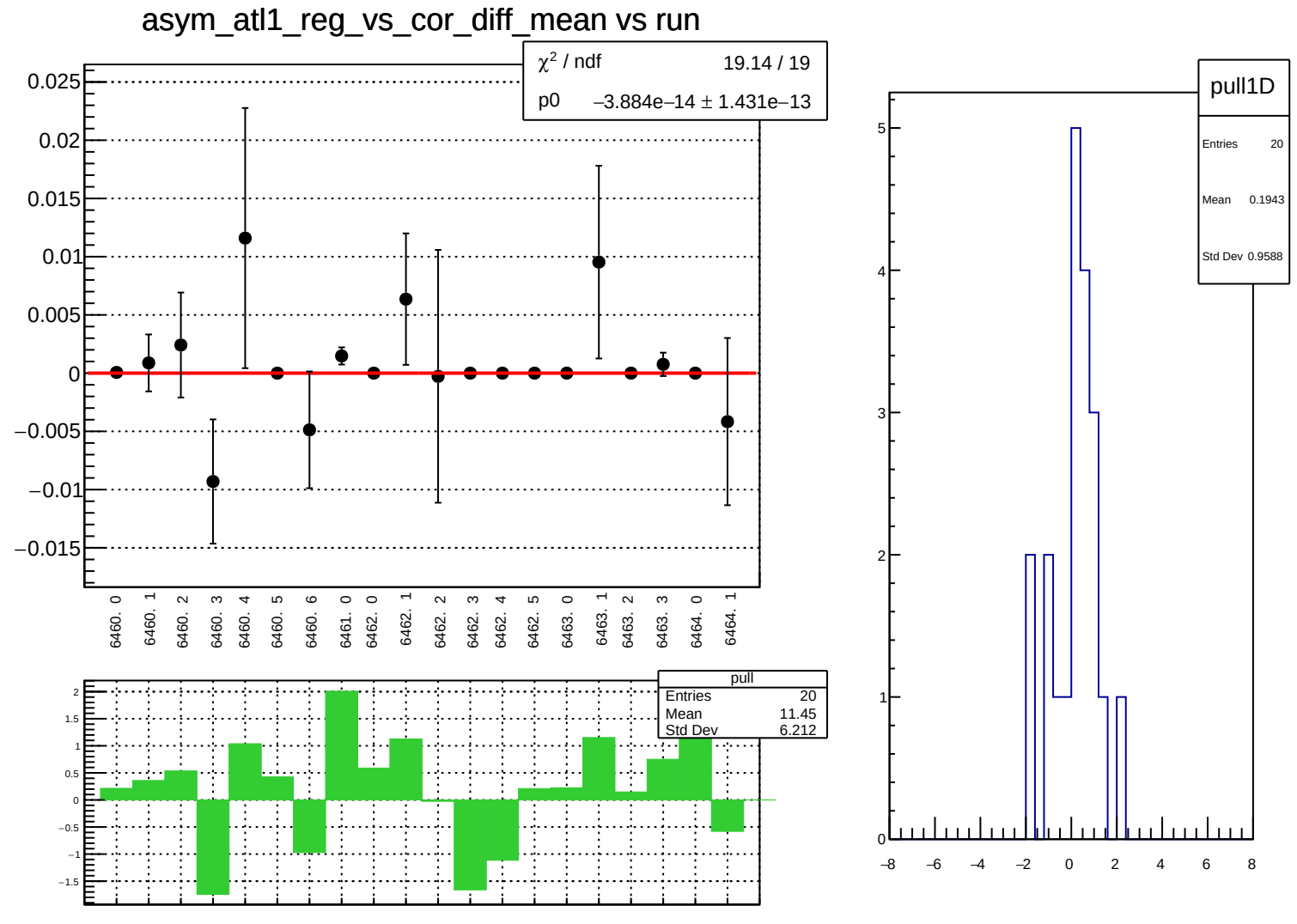

pull1D
Entries 20
Mean −0.03292
Std Dev 0.8397
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

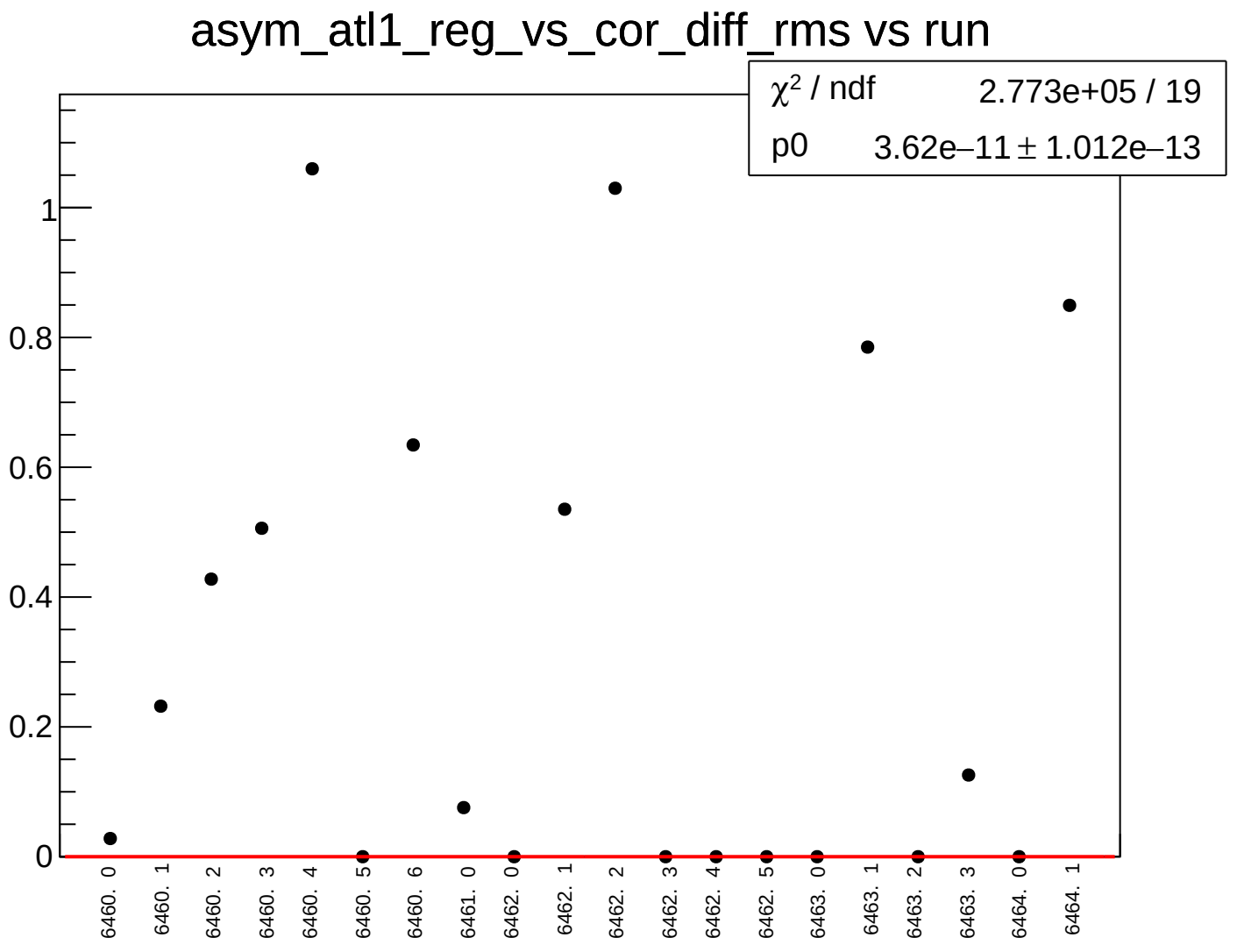

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 622.3 / 19
p0 874.2 ± 1.374
940
920
900
880
860
840
820
800
780
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

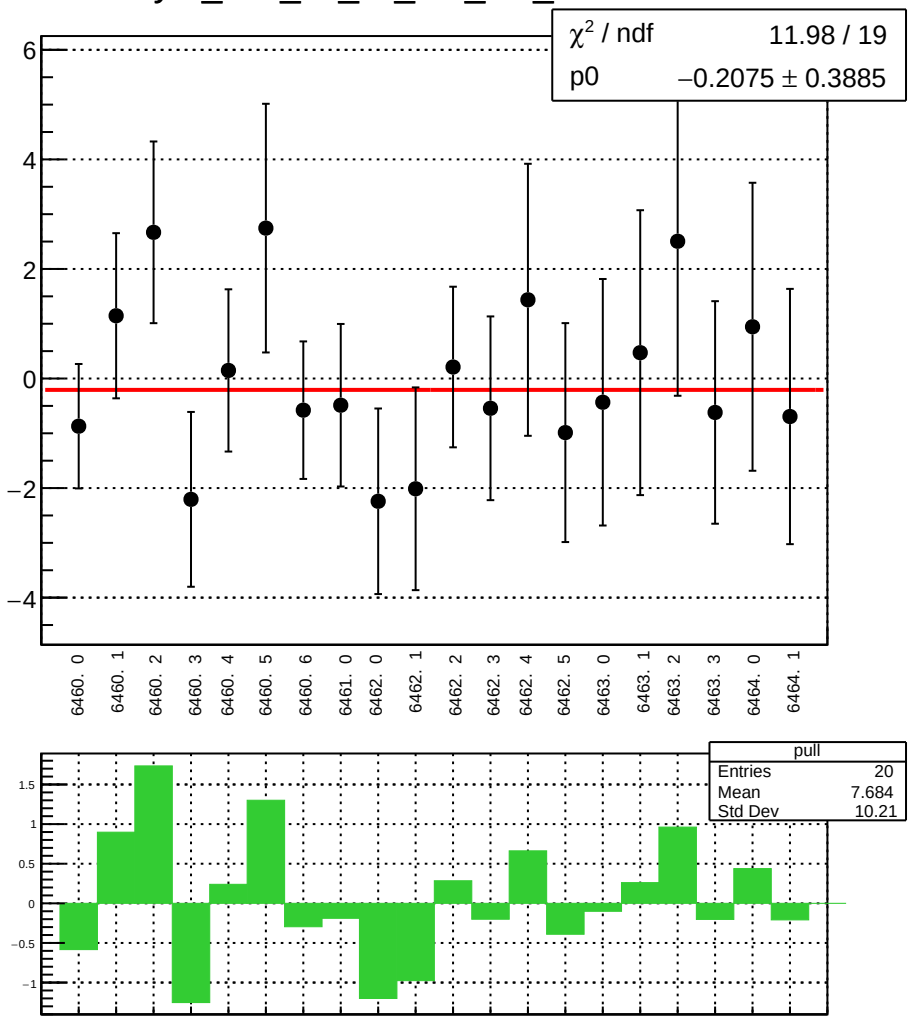

asym_atl1_mean vs run
×10^3
χ^2 / ndf 26.17 / 19
p0 −9574 ± 5683
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −11.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

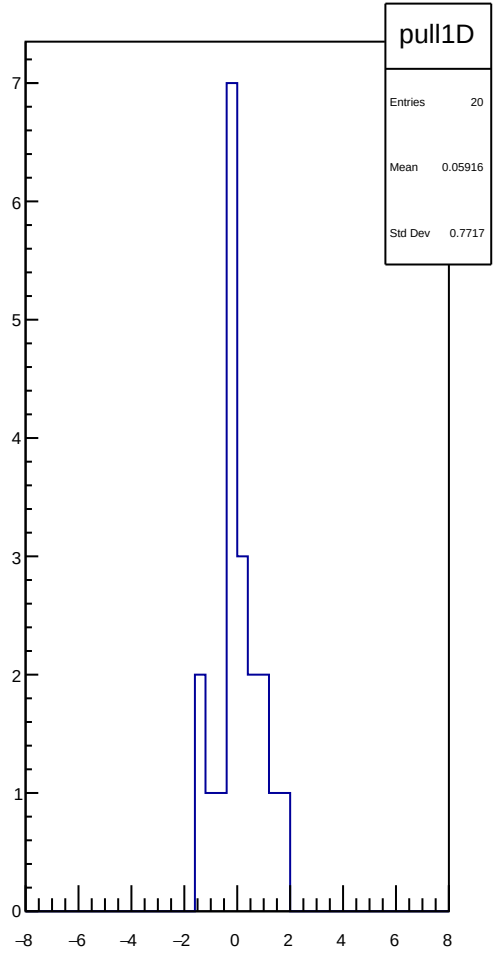

pull1D
Entries 20
Mean 0.05349
Std Dev 1.143
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

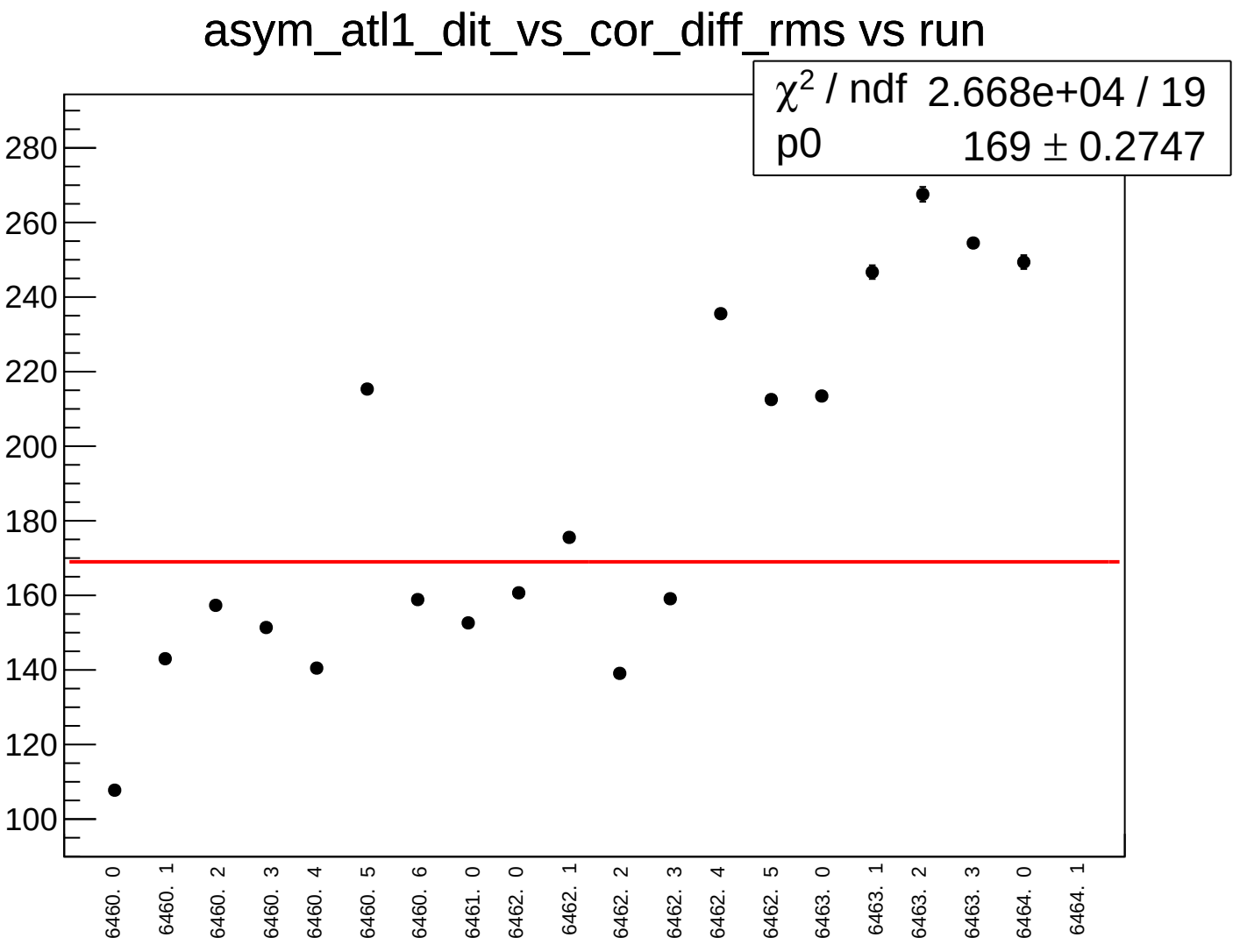

asym_atl1_rms vs run
χ^2 / ndf 122.7 / 19
p0 2558 ± 4.018
2650
2600
2550
2500
2450
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

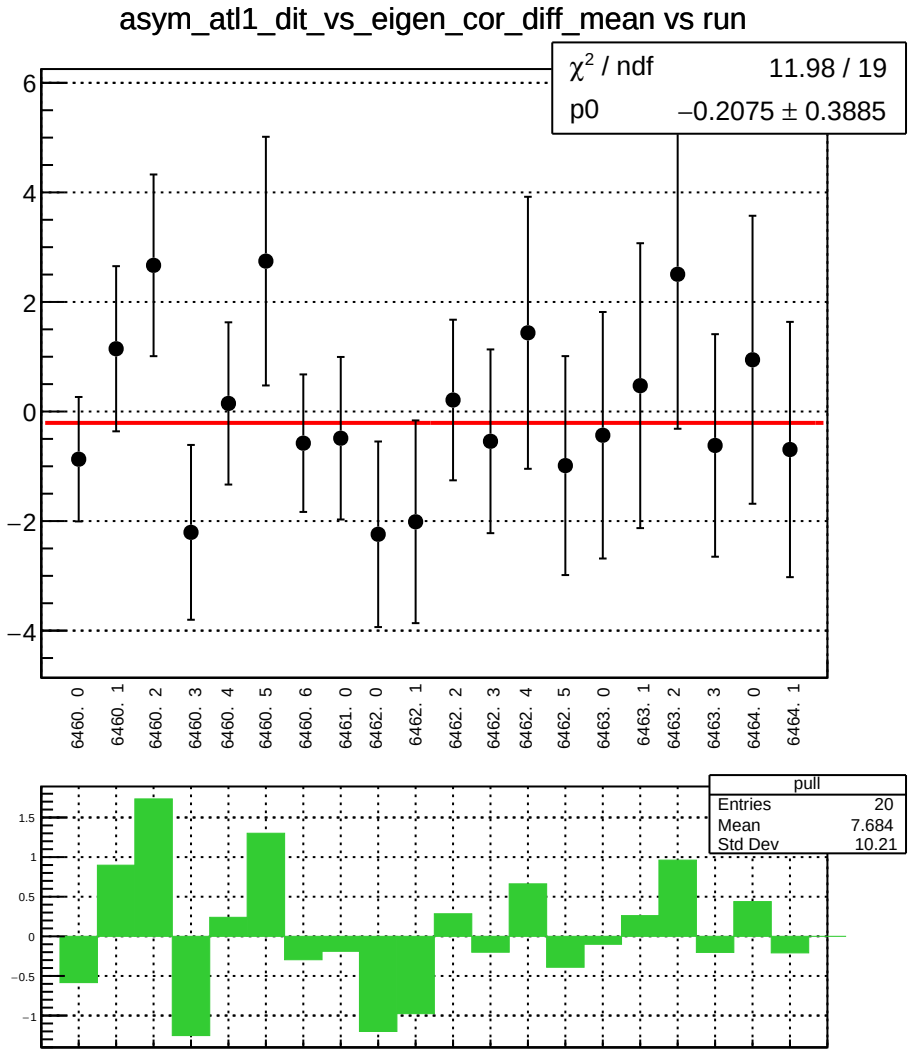

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 19.14 / 19
p0 −3.884e−14 ± 1.431e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 11.45
Std Dev 6.212
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.1943
Std Dev 0.9588
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

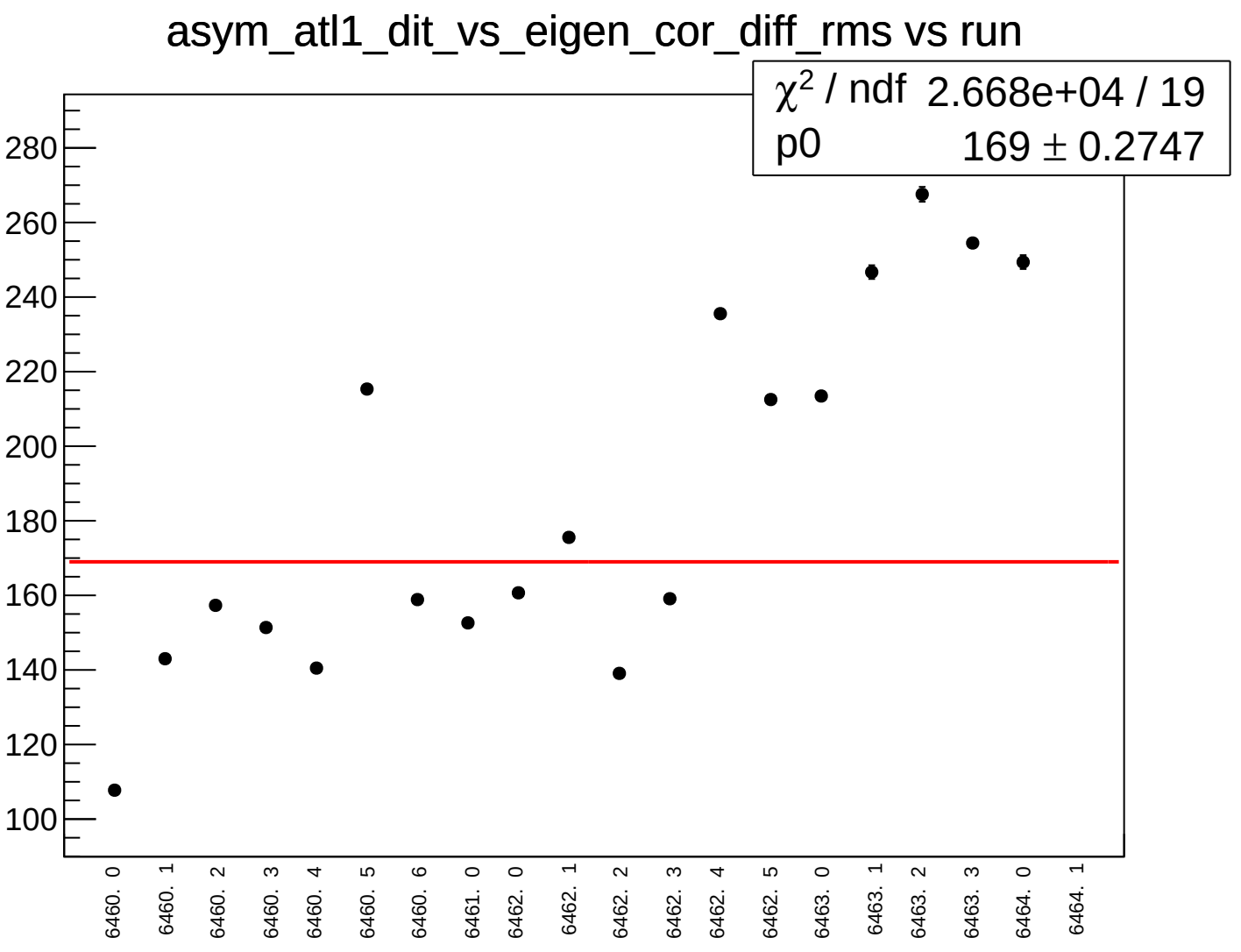

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 2.773e+05 / 19
p0 3.62e−11 ± 1.012e−13
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

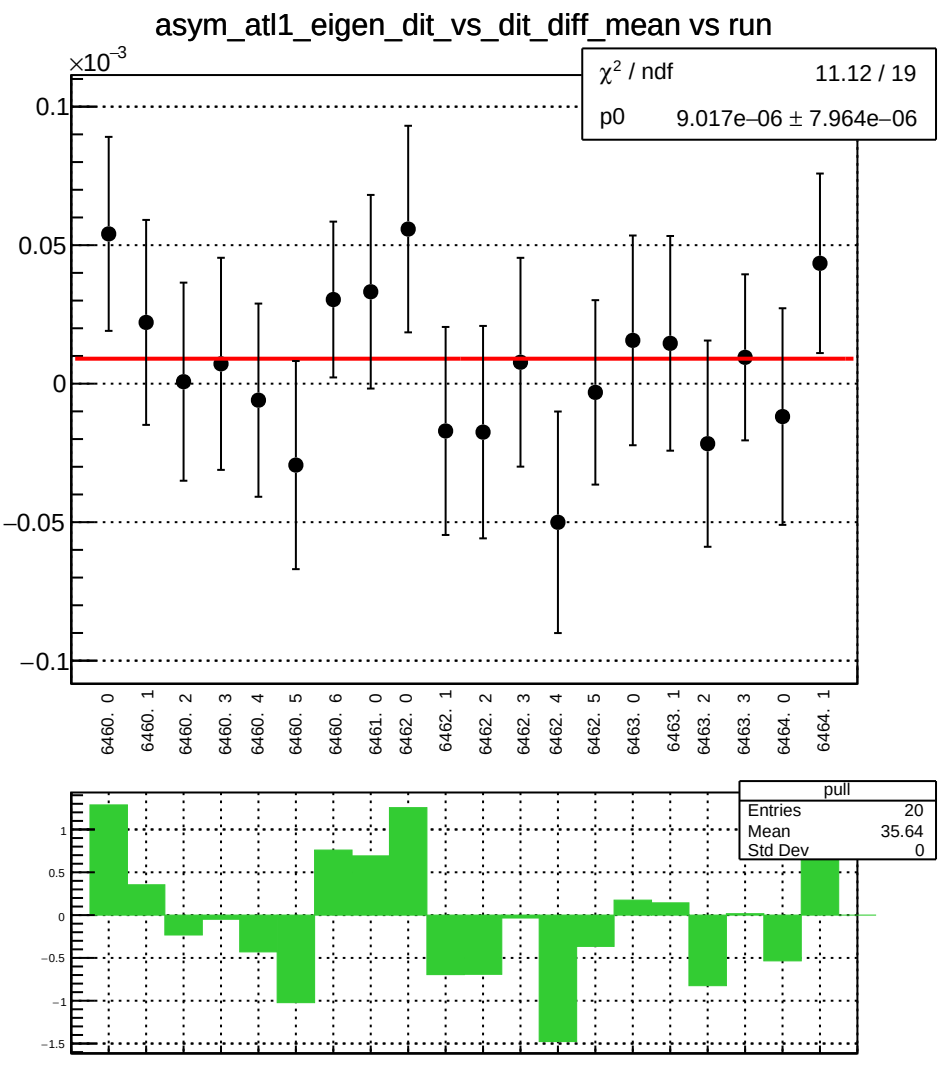

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 11.98 / 19
p0 −0.2075 ± 0.3885
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.684
Std Dev 10.21

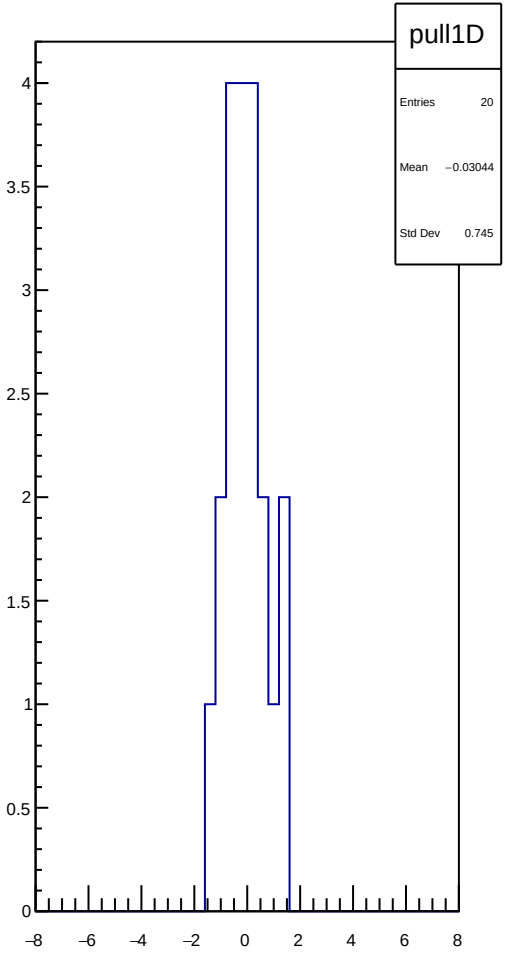

pull1D
Entries 20
Mean 0.05916
Std Dev 0.7717

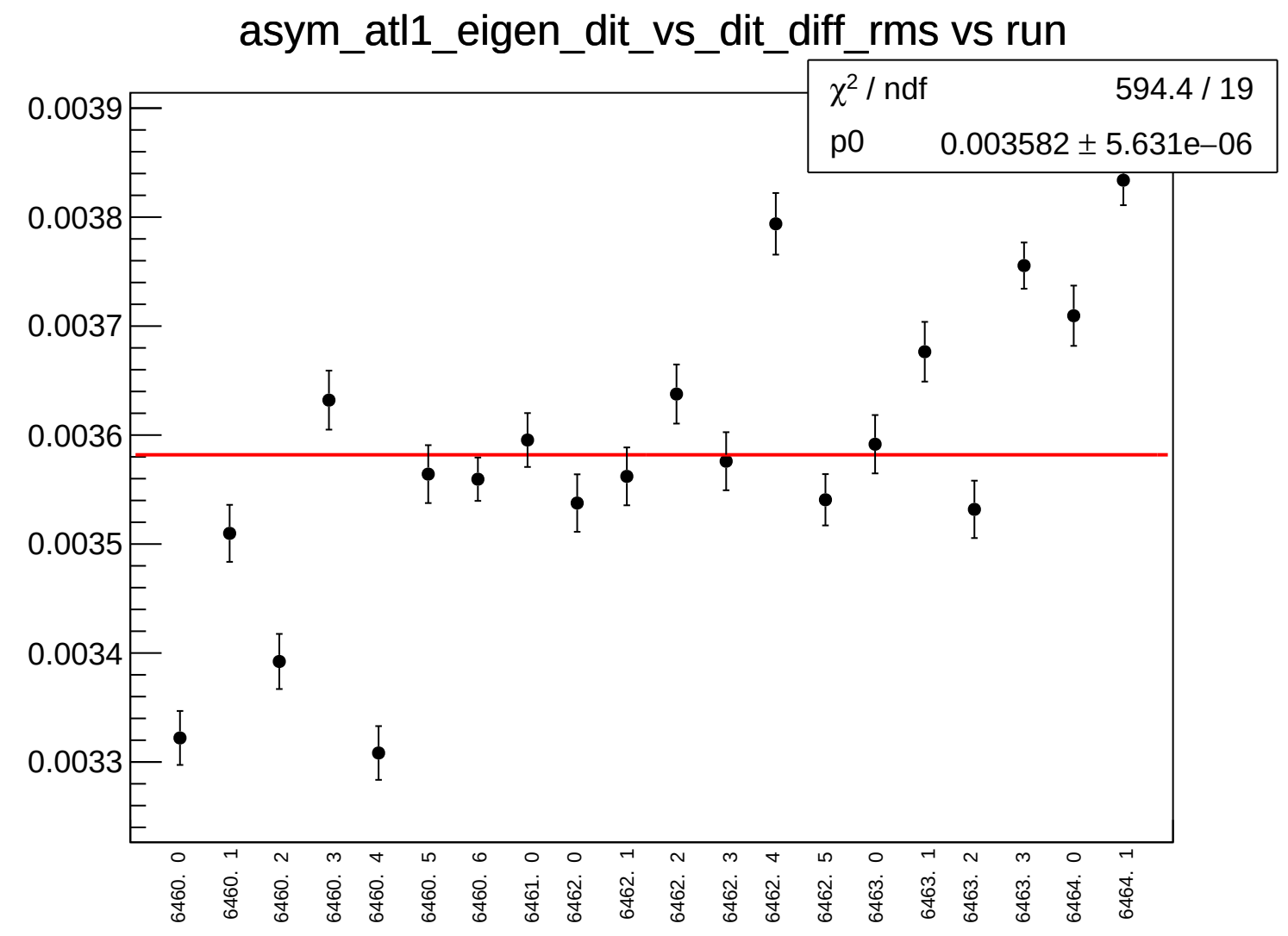

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.668e+04 / 19
p0 169 ± 0.2747
280
260
240
220
200
180
160
140
120
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

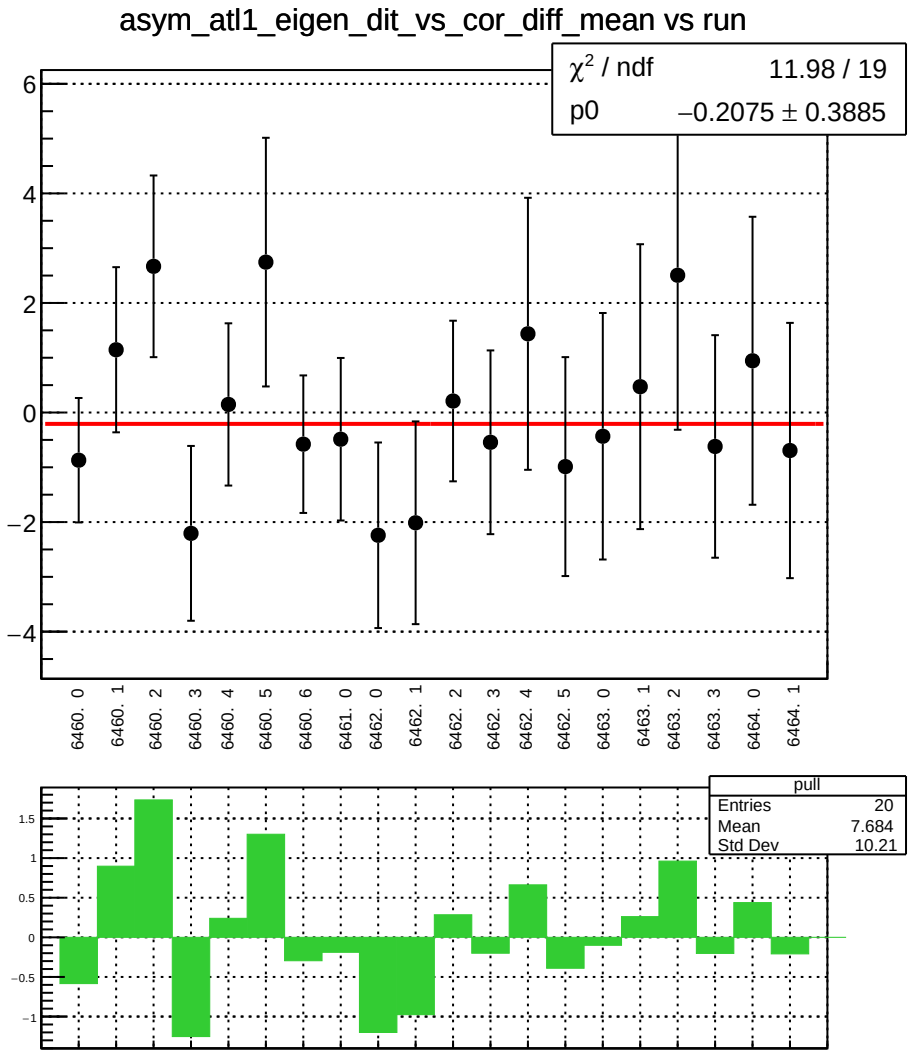

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.98 / 19
p0 −0.2075 ± 0.3885
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.684
Std Dev 10.21
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.05916
Std Dev 0.7717
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

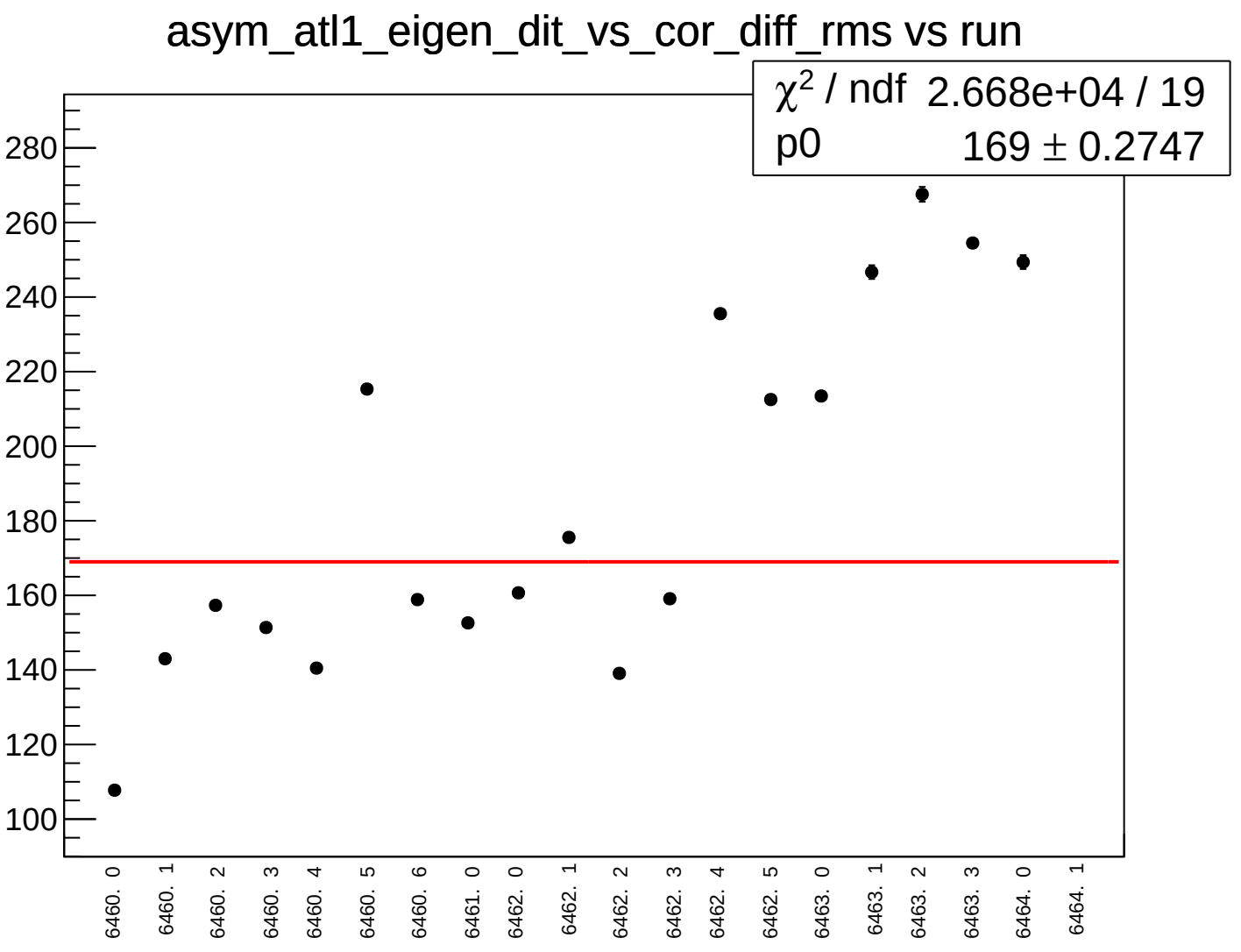

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.668e+04 / 19
p0 169 ± 0.2747
280
260
240
220
200
180
160
140
120
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

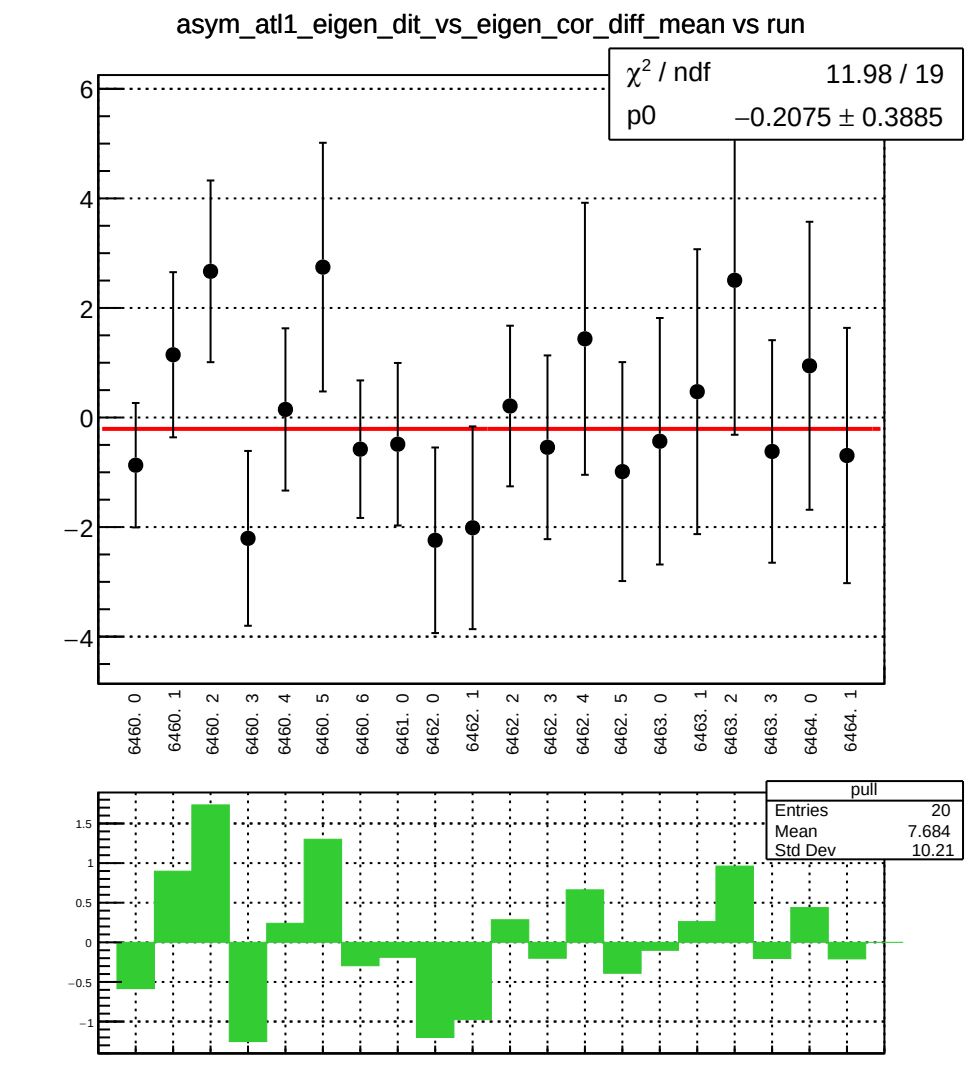

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.12 / 19
p0 9.017e−06 ± 7.964e−06
0.1
0.05
0
−0.05
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 35.64
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

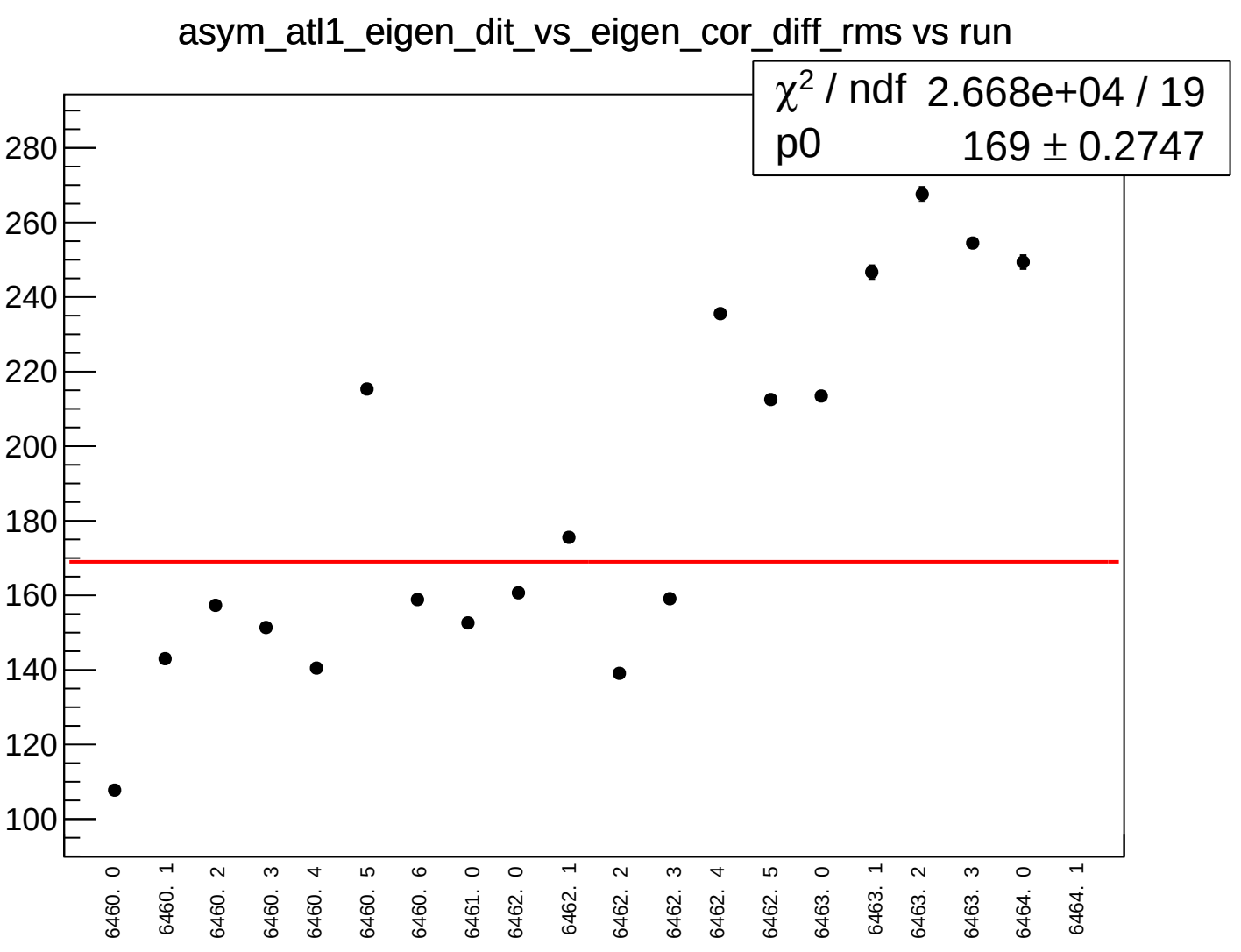

pull1D
Entries 20
Mean −0.03044
Std Dev 0.745
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

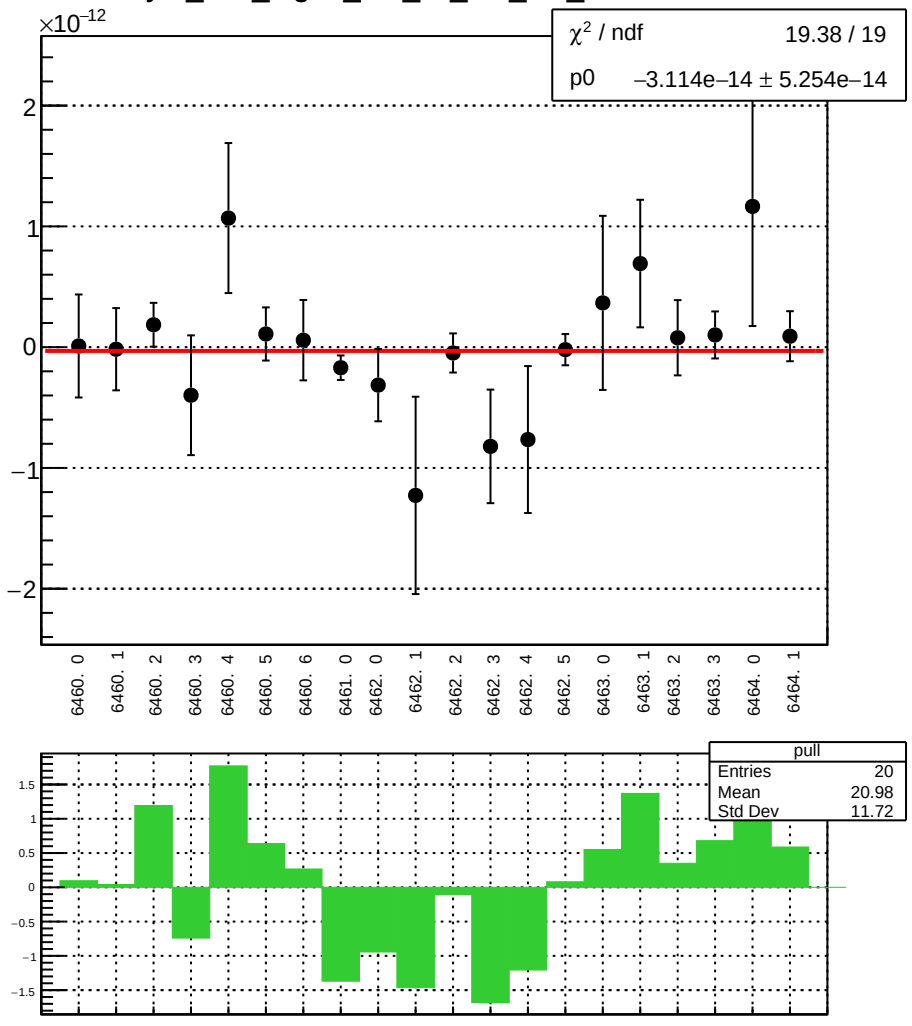

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 594.4 / 19
p0 0.003582 ± 5.631e−06
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

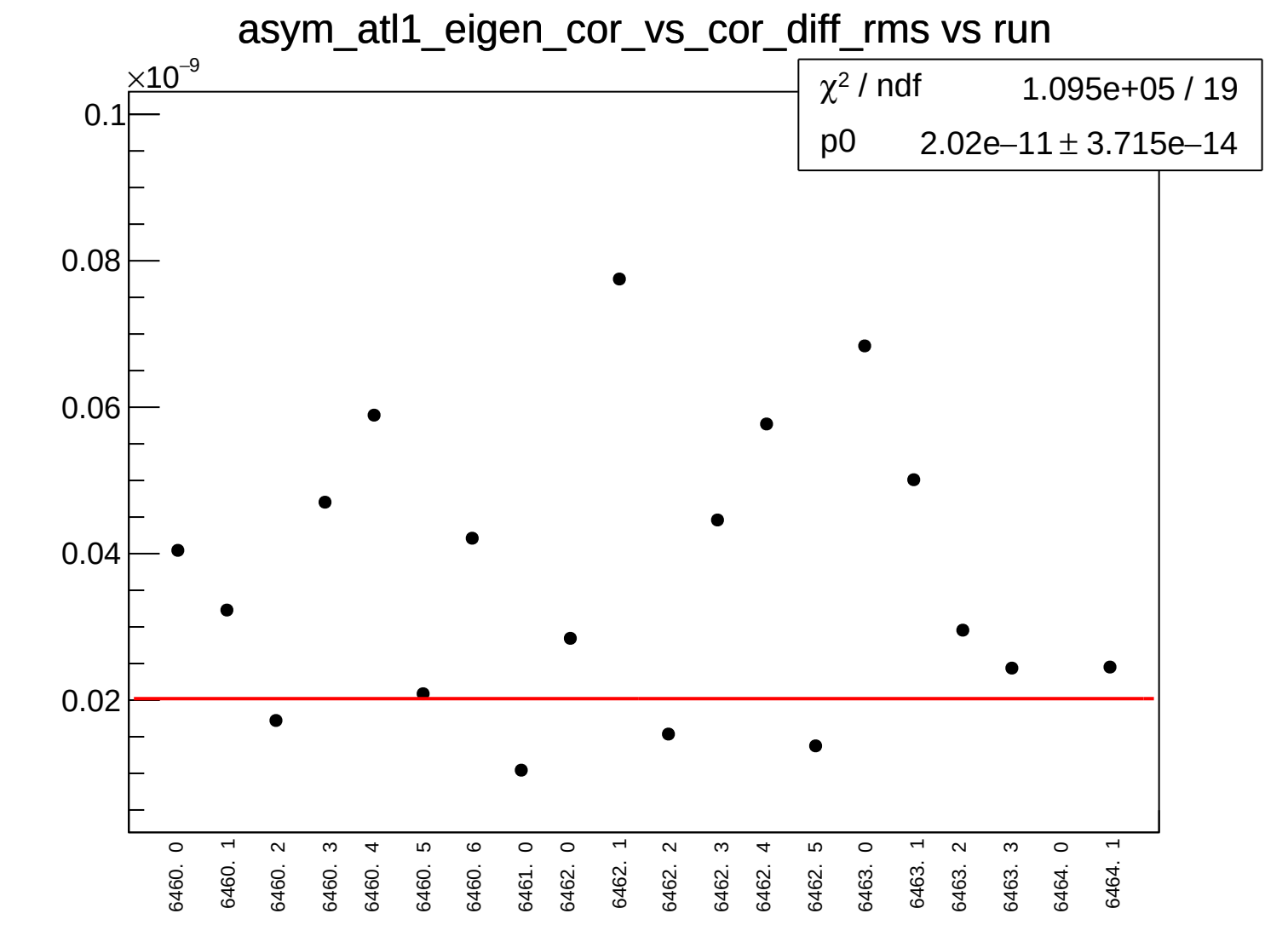

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 11.98 / 19
p0 −0.2075 ± 0.3885
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.684
Std Dev 10.21
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.05916
Std Dev 0.7717
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

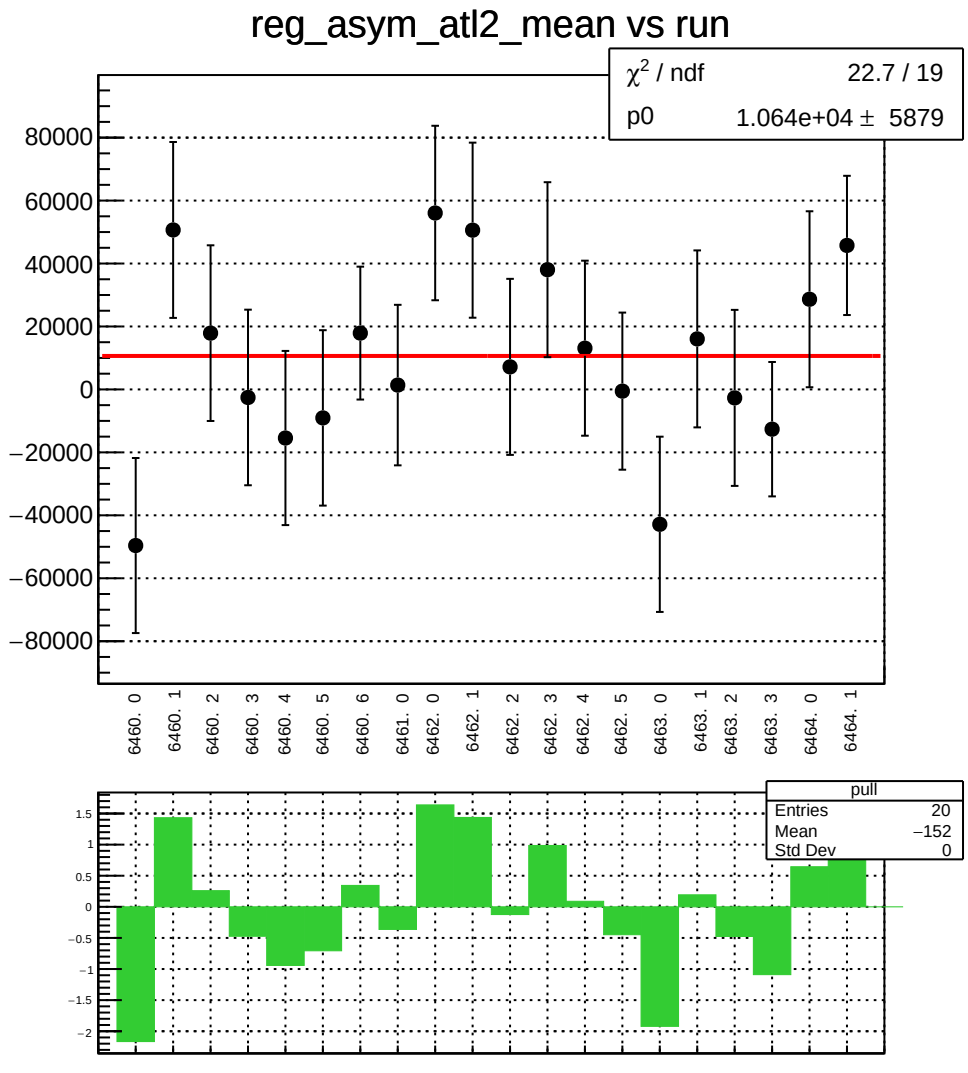

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.668e+04 / 19
p0 169 ± 0.2747
280
260
240
220
200
180
160
140
120
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

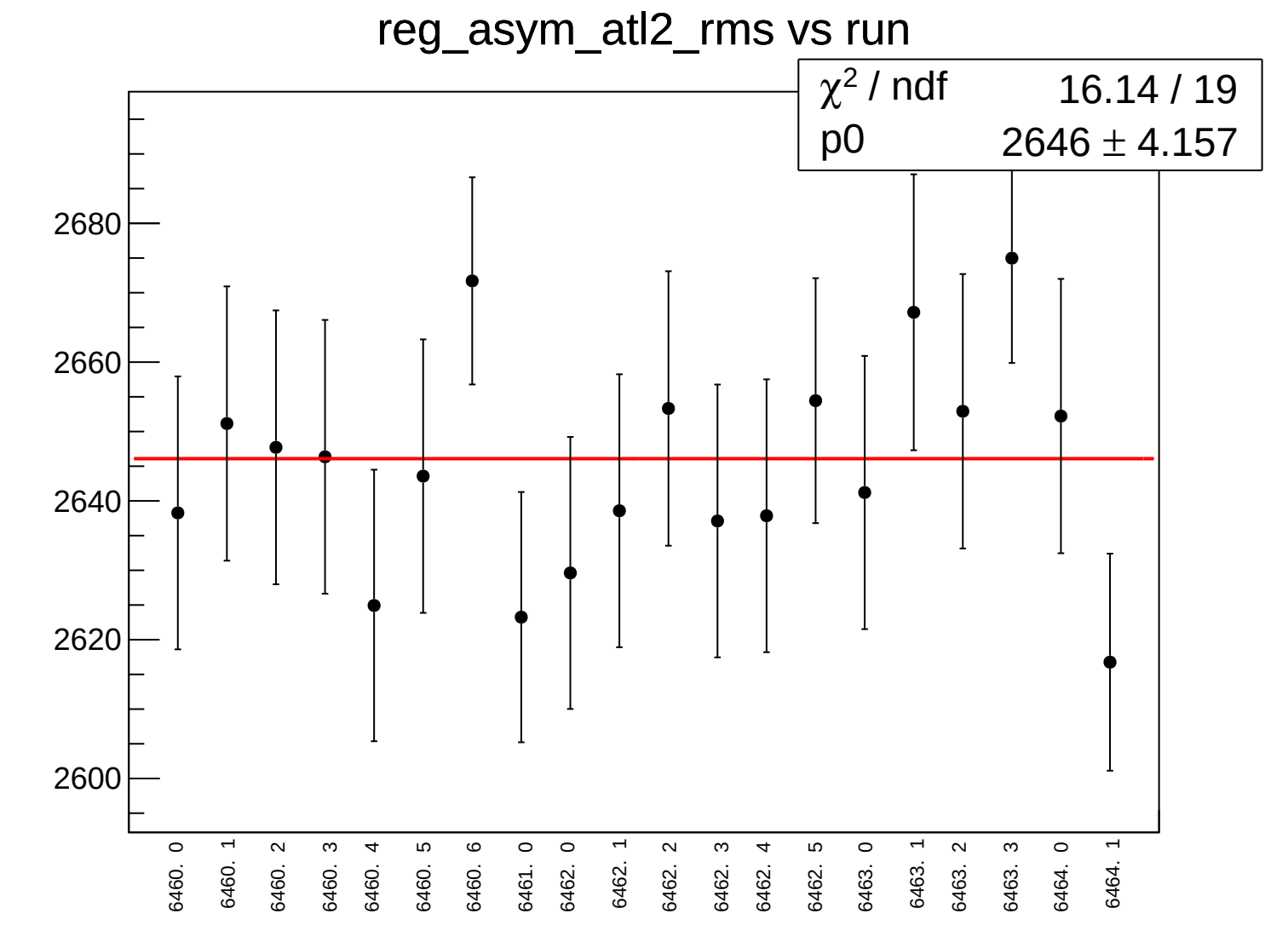

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.98 / 19
p0 −0.2075 ± 0.3885
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.684
Std Dev 10.21
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.05916
Std Dev 0.7717
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

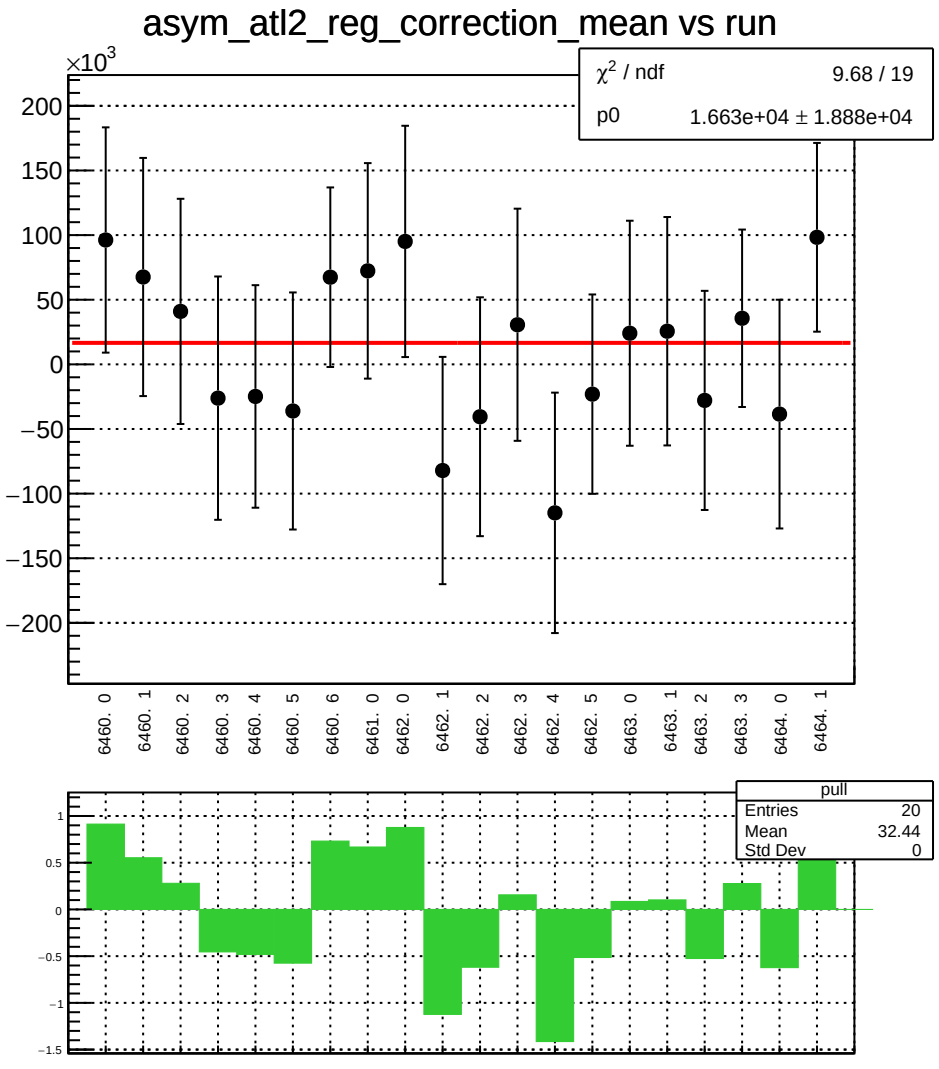

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.668e+04 / 19
p0 169 ± 0.2747
280
260
240
220
200
180
160
140
120
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

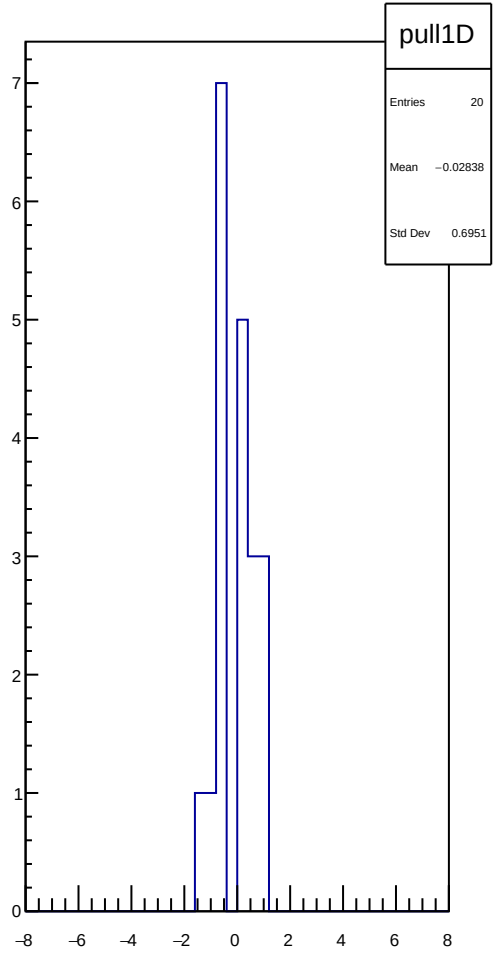

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.38 / 19
p0 −3.114e−14 ± 5.254e−14
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 20.98
Std Dev 11.72
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.06629
Std Dev 0.982
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

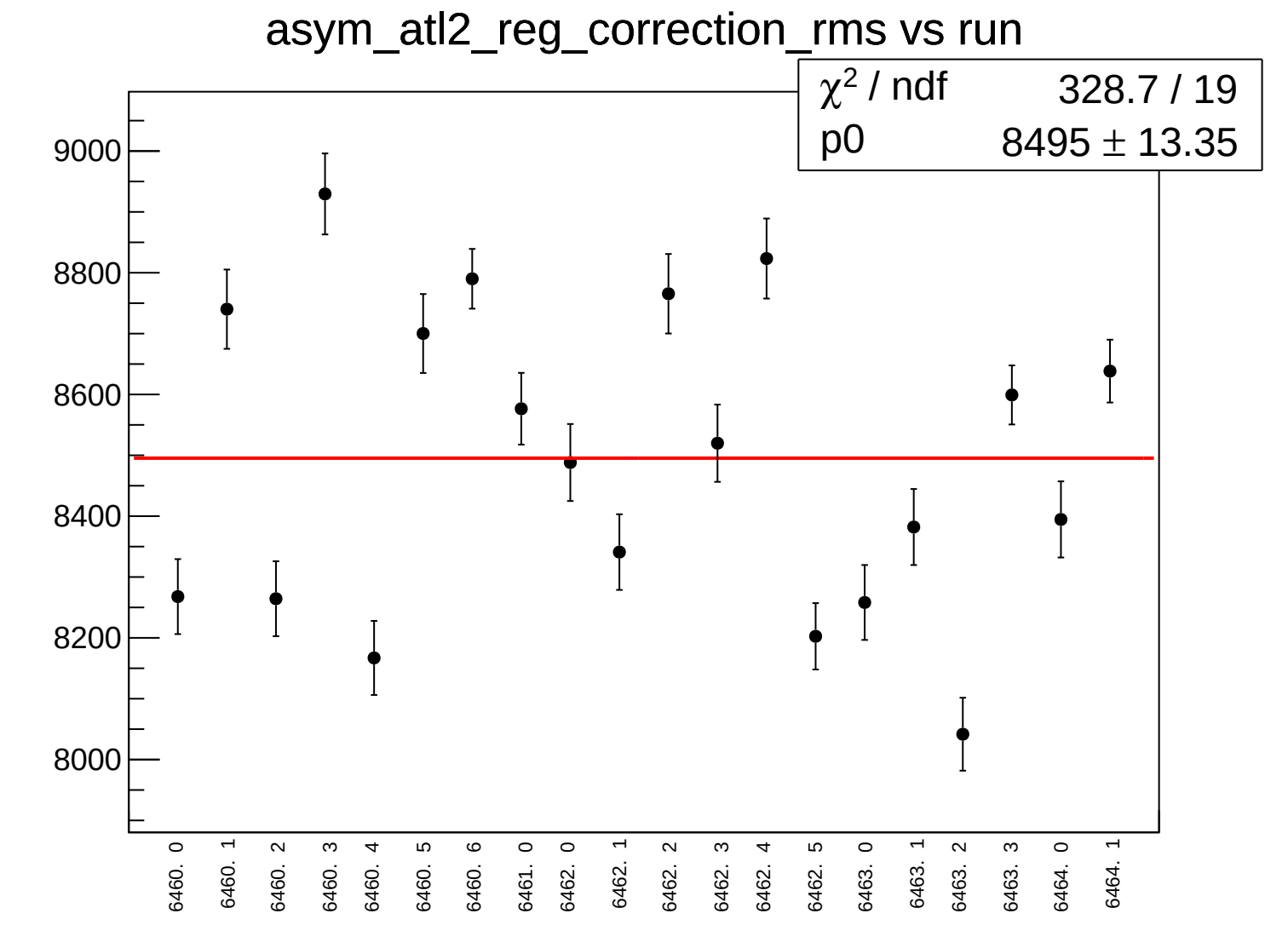

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.095e+05 / 19
p0 2.02e−11 ± 3.715e−14
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

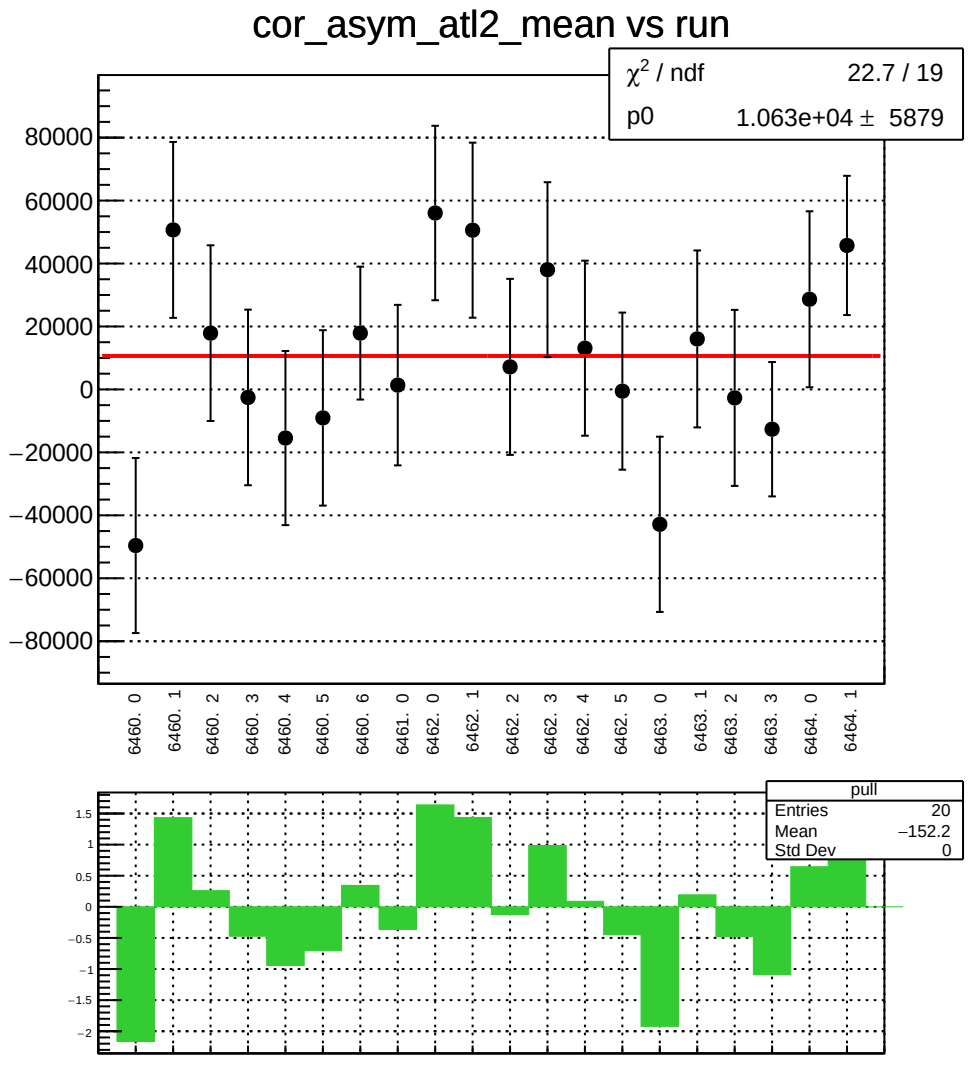

reg_asym_atl2_mean vs run
χ² / ndf 22.7 / 19
p0 1.064e+04 ± 5879
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −152
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.004996
Std Dev 1.065
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

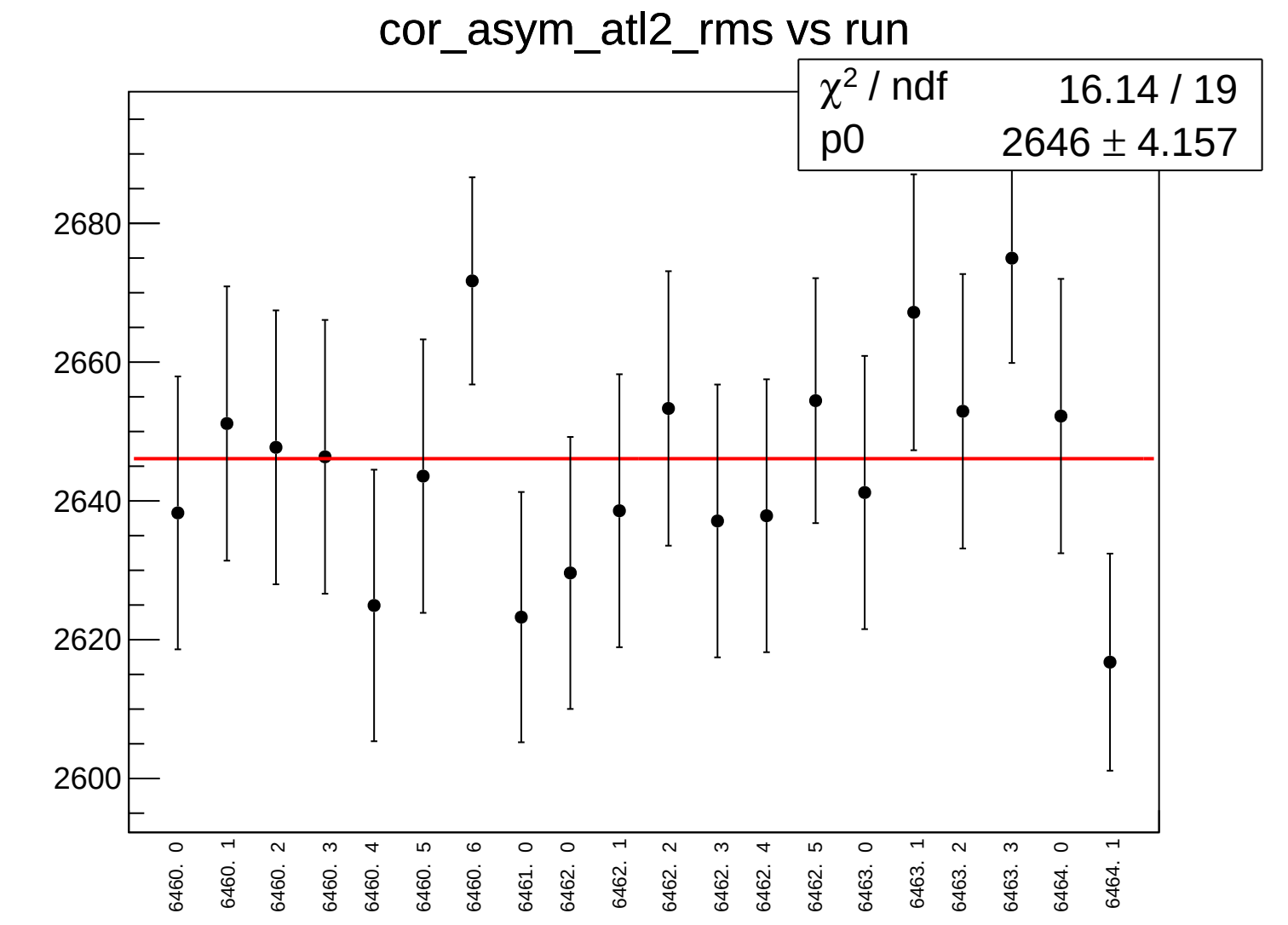

reg_asym_atl2_rms vs run
χ² / ndf 16.14 / 19
p0 2646 ± 4.157
2680
2660
2640
2620
2600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

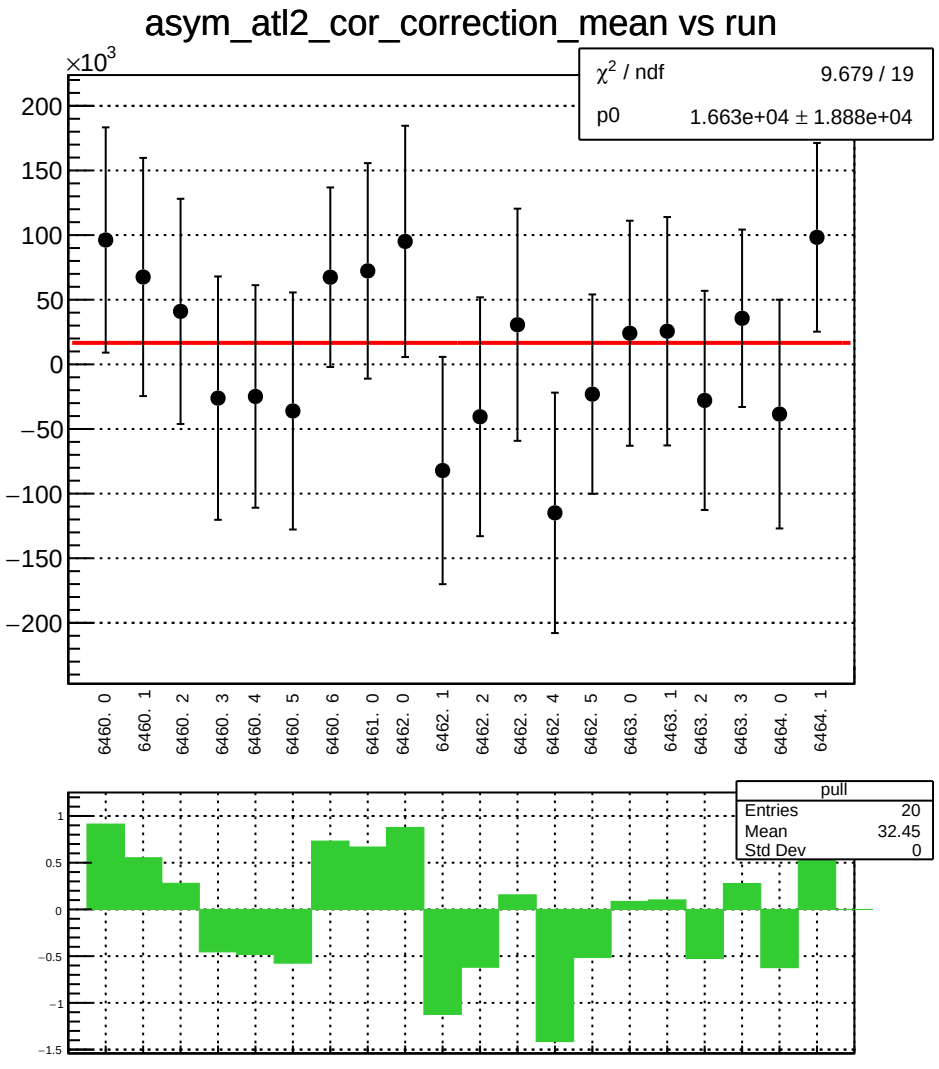

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 9.68 / 19
p0 1.663e+04 ± 1.888e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.44
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

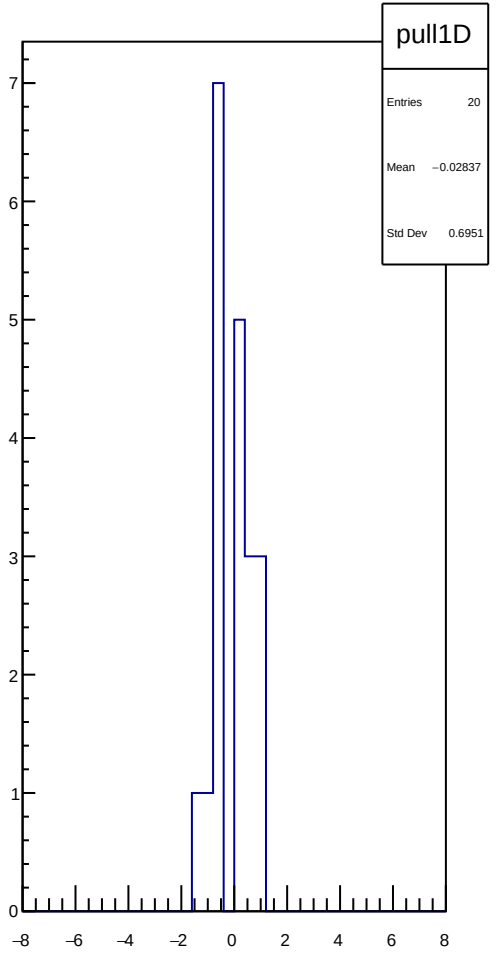

pull1D
Entries 20
Mean −0.02838
Std Dev 0.6951
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

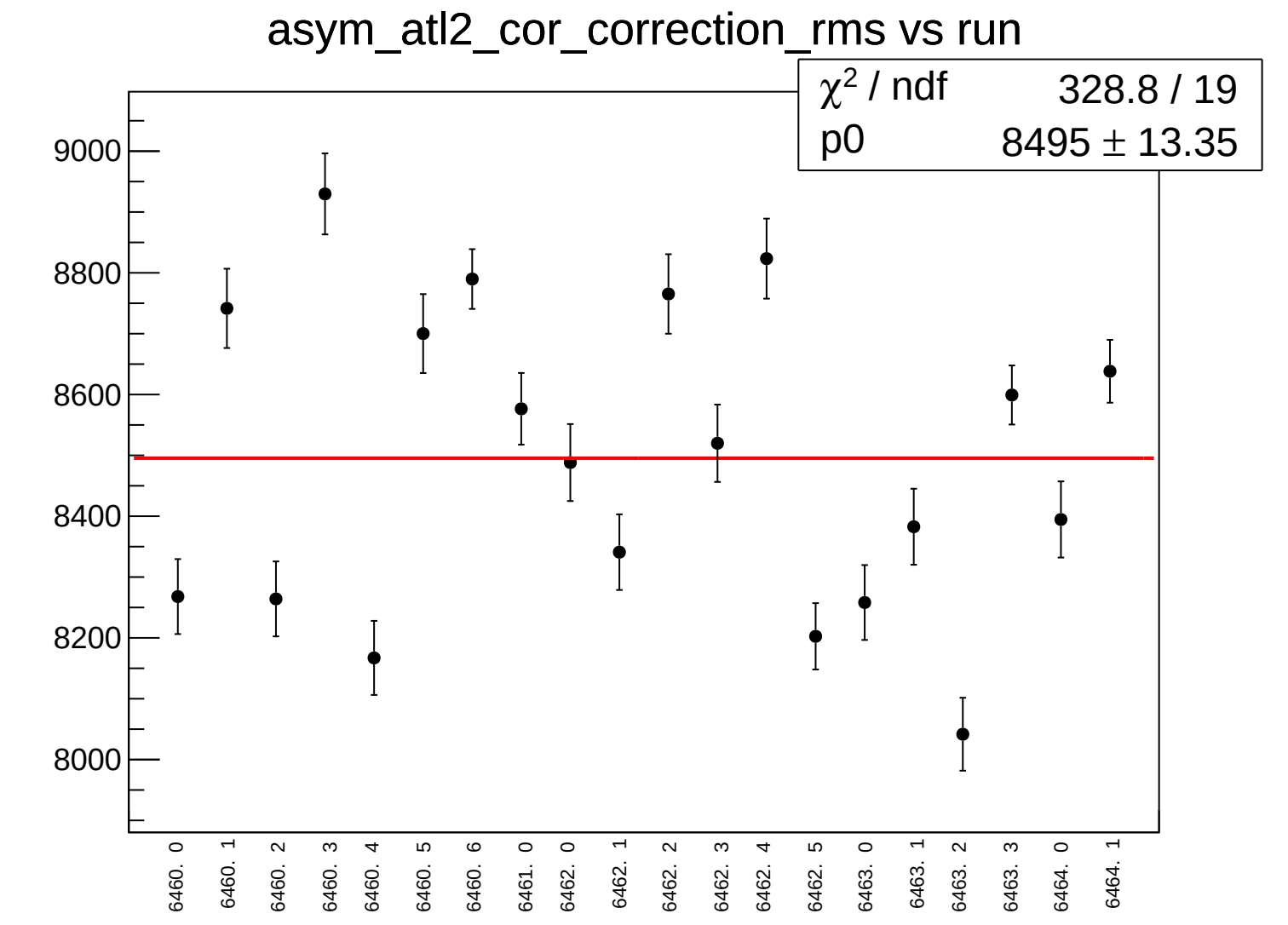

asym_atl2_reg_correction_rms vs run
χ² / ndf 328.7 / 19
p0 8495 ± 13.35
9000
8800
8600
8400
8200
8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

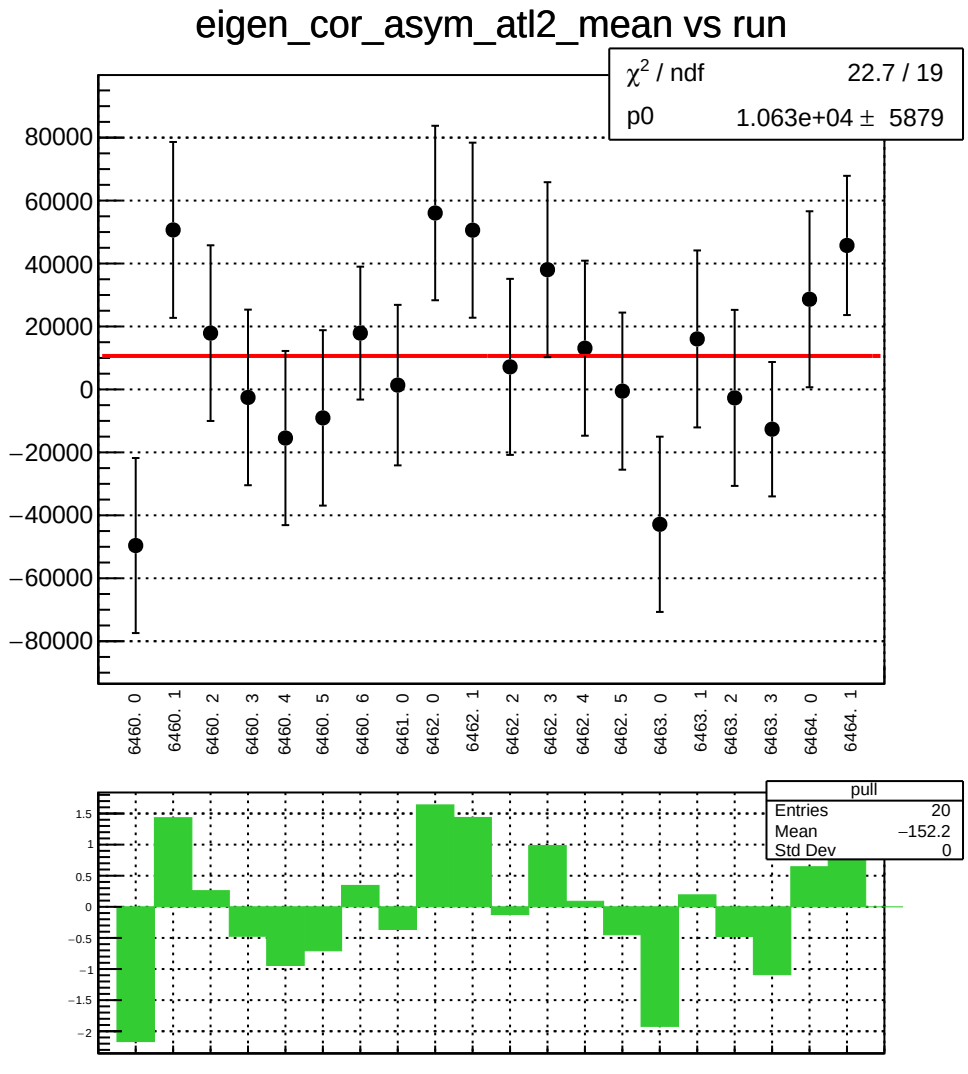

cor_asym_atl2_mean vs run
χ² / ndf 22.7 / 19
p0 1.063e+04 ± 5879
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −152.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.004989
Std Dev 1.065
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

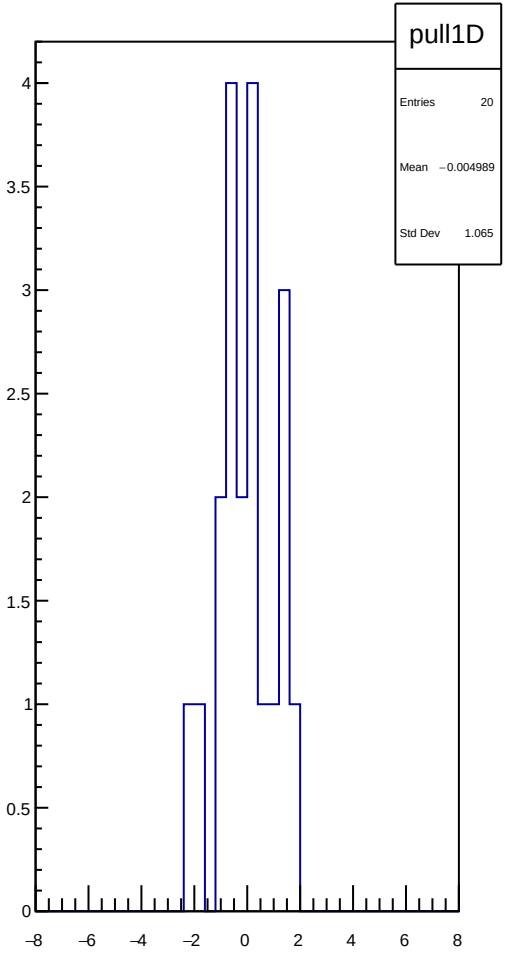

cor_asym_atl2_rms vs run
χ² / ndf 16.14 / 19
p0 2646 ± 4.157
2680
2660
2640
2620
2600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

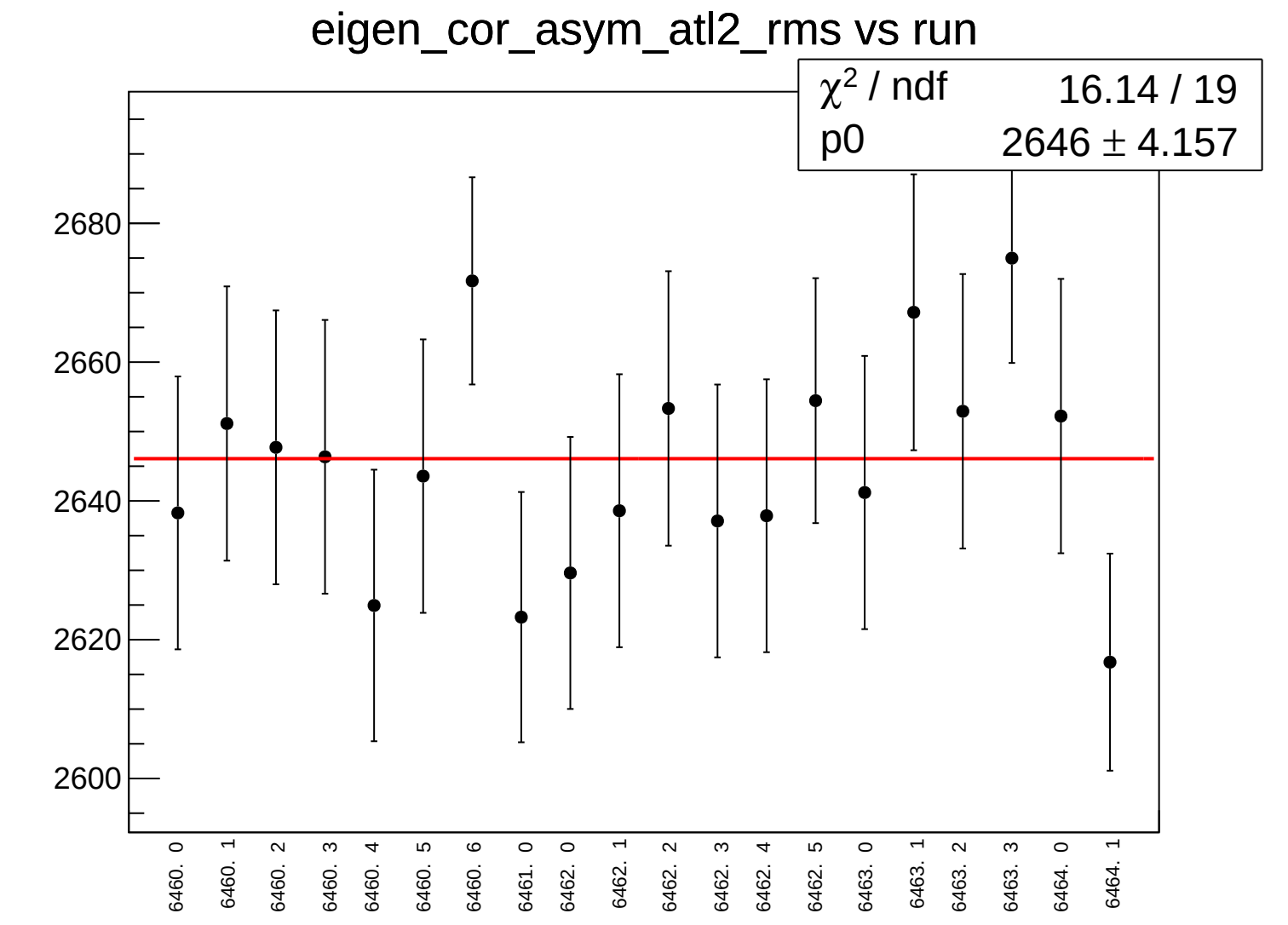

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 9.679 / 19
p0 1.663e+04 ± 1.888e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.45
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

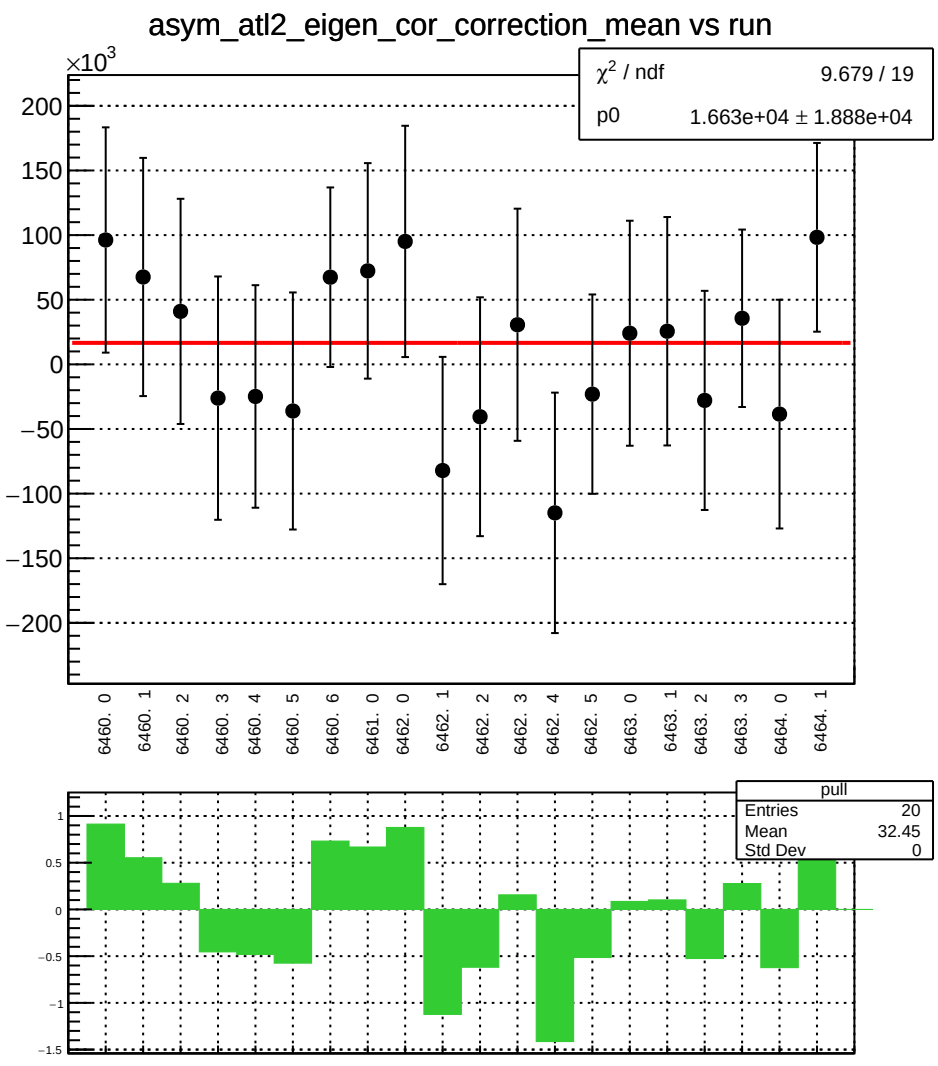

pull1D
Entries 20
Mean −0.02837
Std Dev 0.6951
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

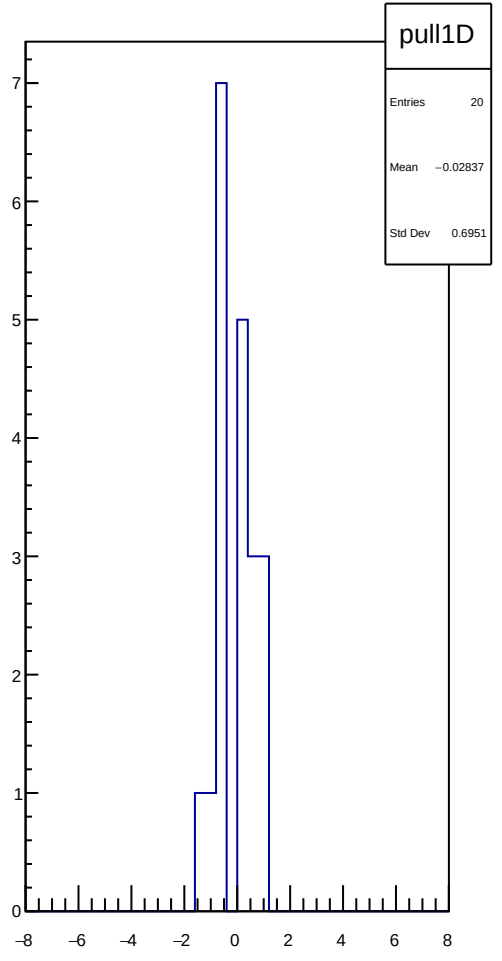

asym_atl2_cor_correction_rms vs run
χ^2 / ndf 328.8 / 19
p0 8495 ± 13.35
9000
8800
8600
8400
8200
8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

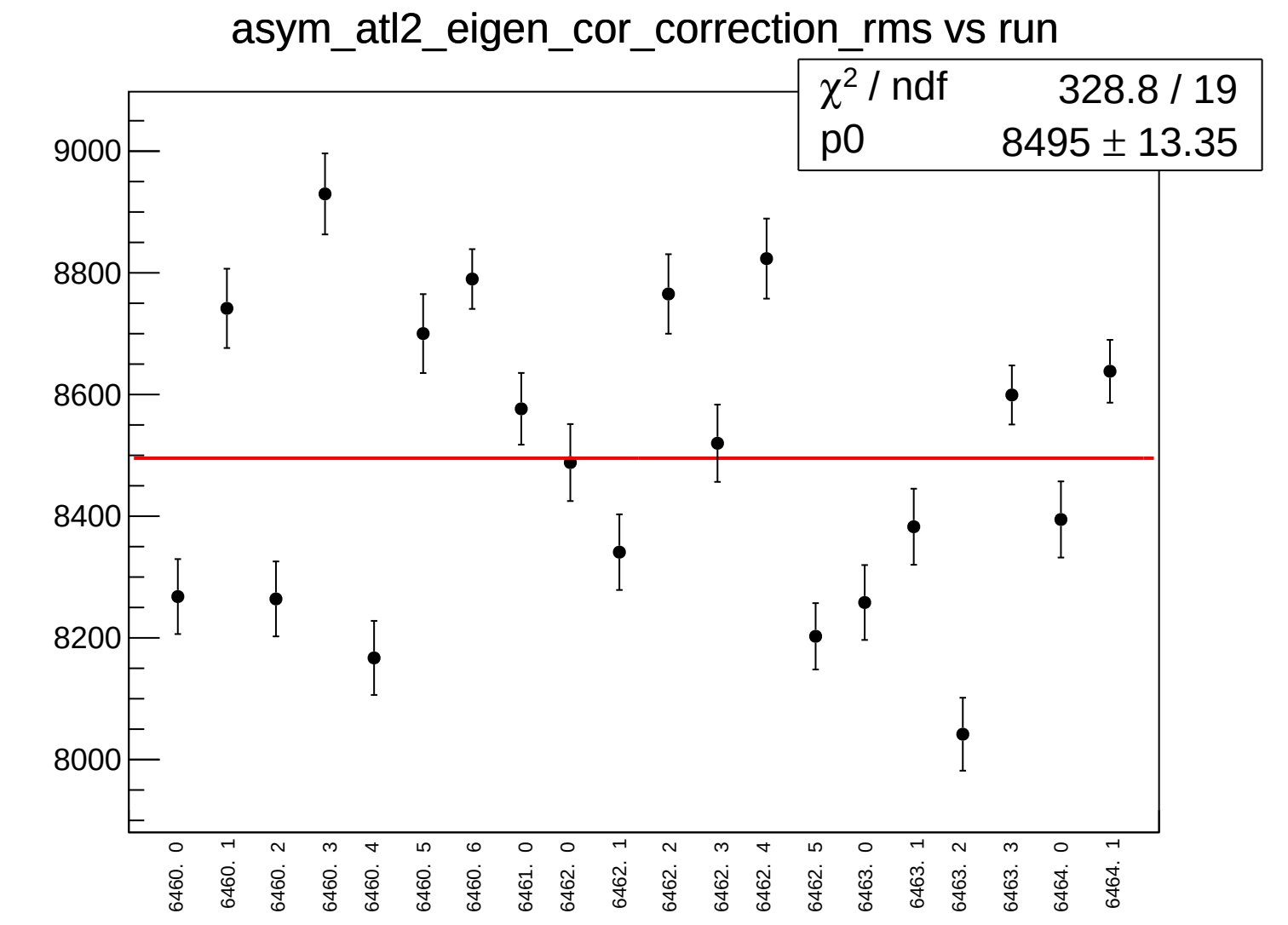

eigen_cor_asym_atl2_mean vs run
χ² / ndf 22.7 / 19
p0 1.063e+04 ± 5879
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −152.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

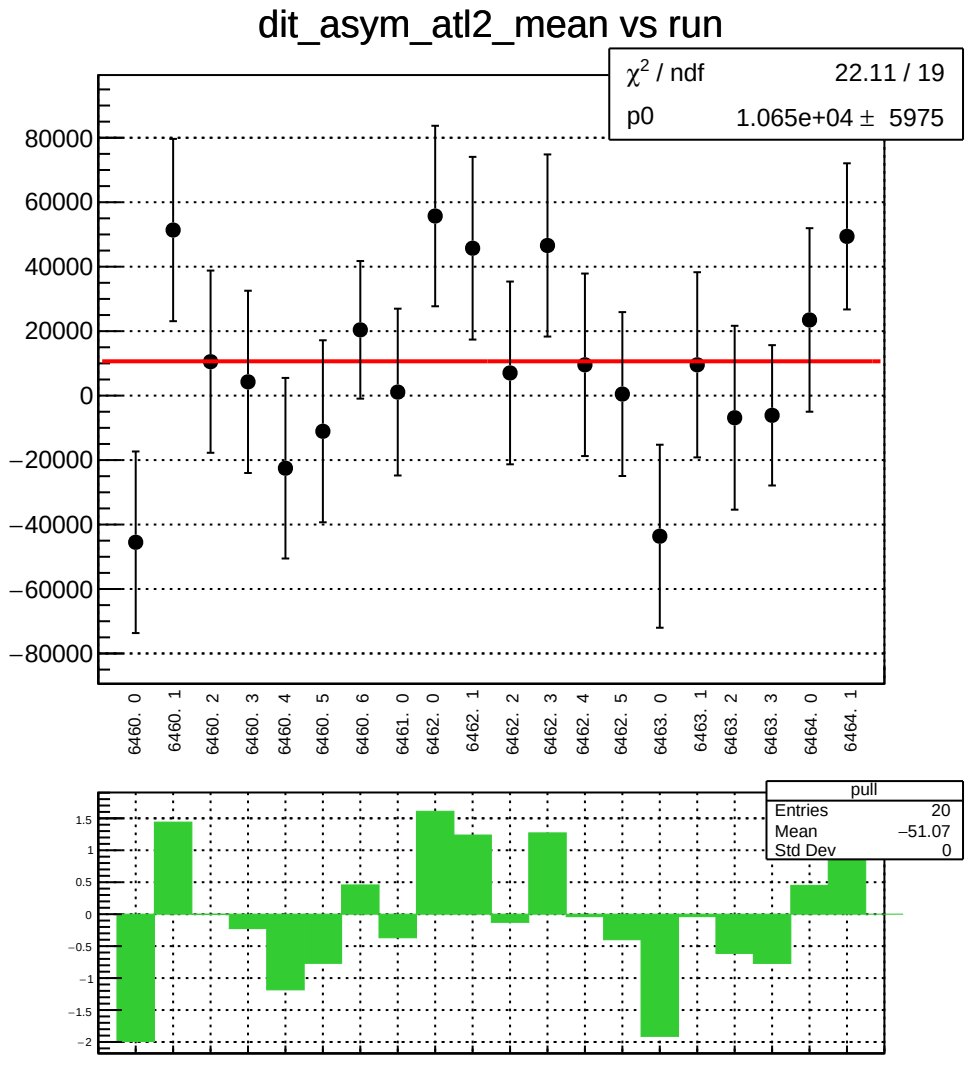

pull1D
Entries 20
Mean −0.004989
Std Dev 1.065
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

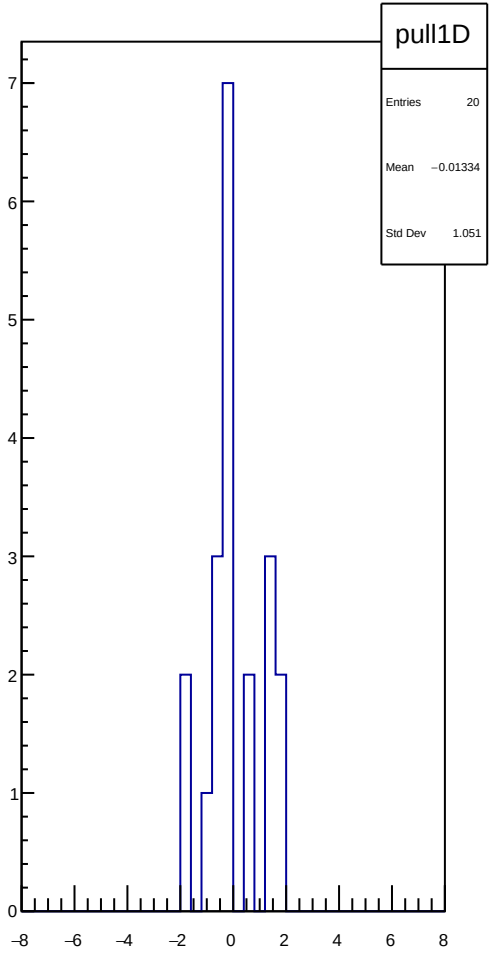

eigen_cor_asym_atl2_rms vs run
χ² / ndf 16.14 / 19
p0 2646 ± 4.157
2680
2660
2640
2620
2600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

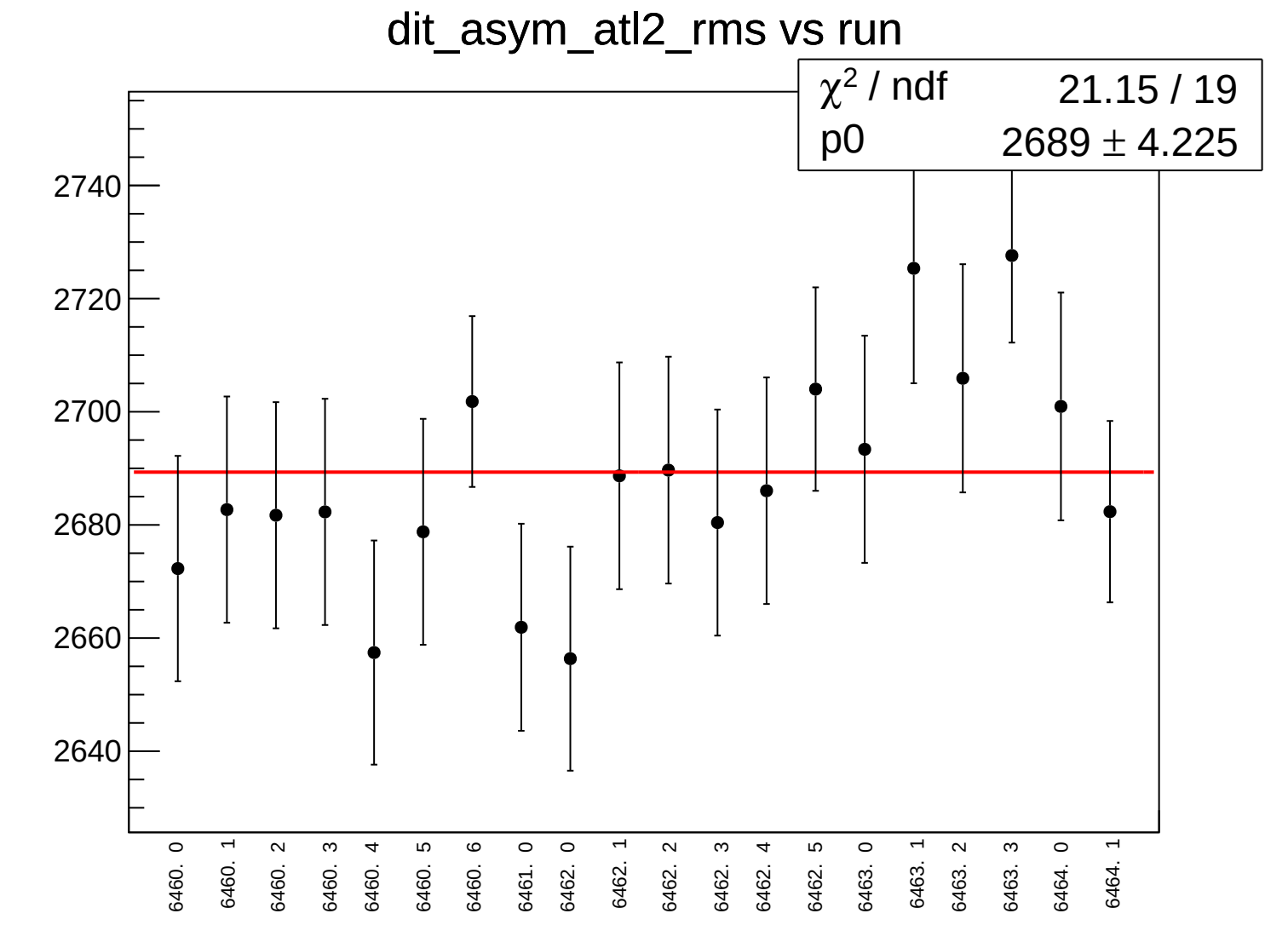

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 9.679 / 19
p0 1.663e+04 ± 1.888e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.45
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

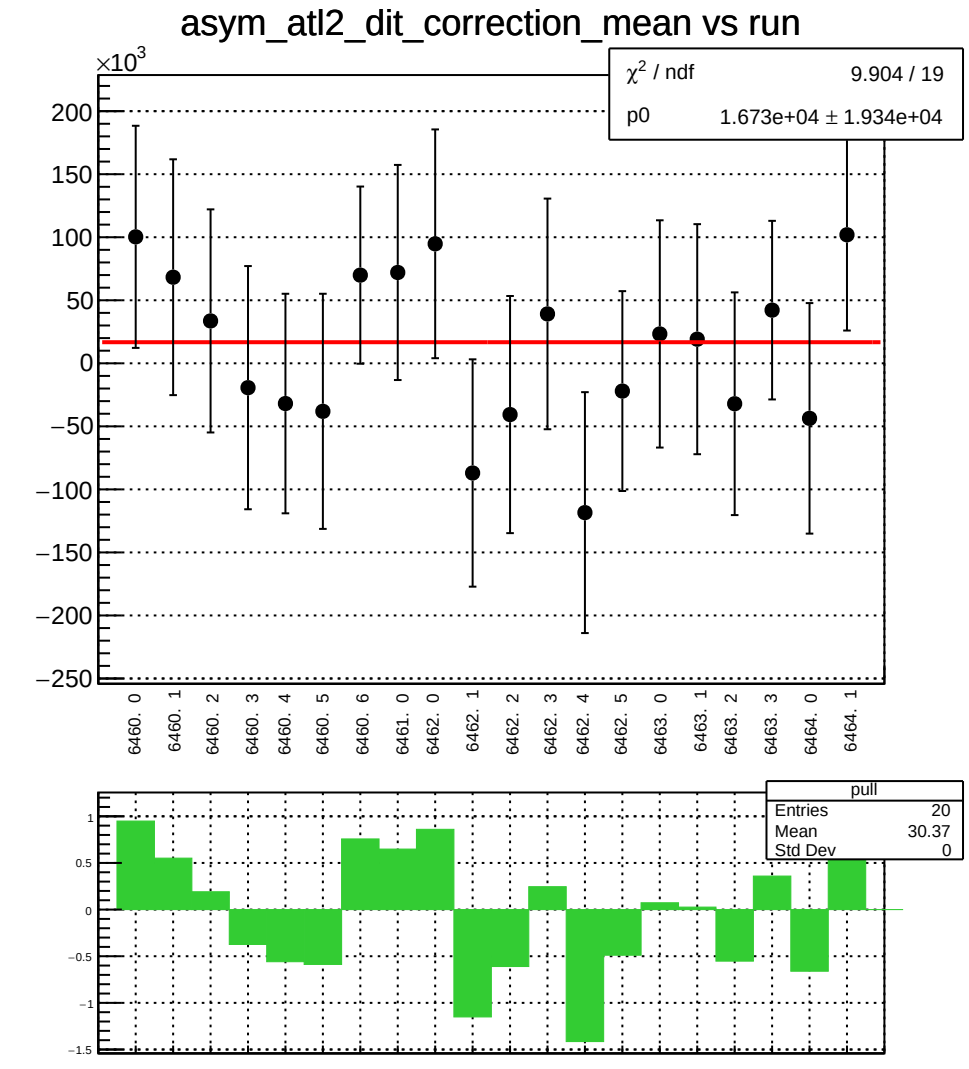

pull1D
Entries 20
Mean −0.02837
Std Dev 0.6951
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

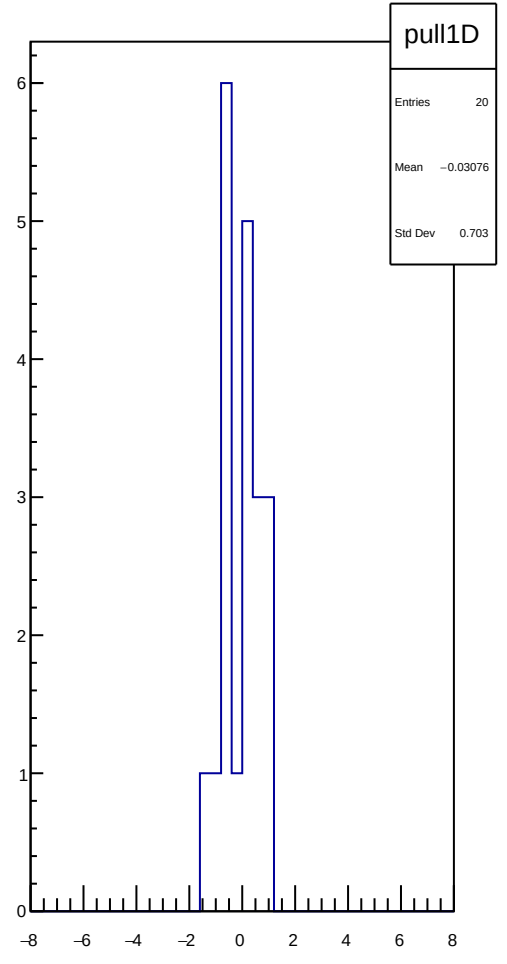

asym_atl2_eigen_cor_correction_rms vs run
χ^2 / ndf 328.8 / 19
p0 8495 ± 13.35
9000
8800
8600
8400
8200
8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

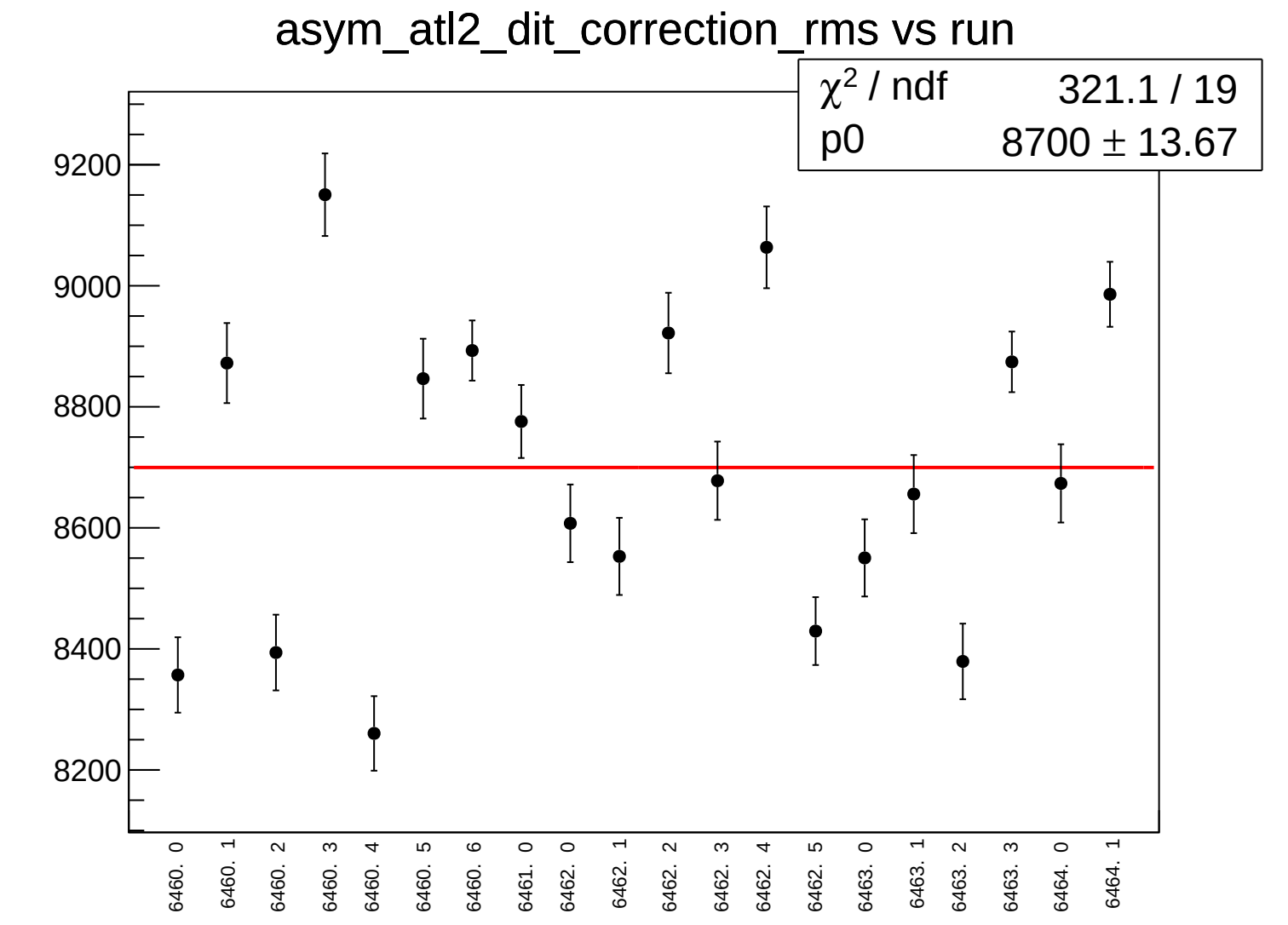

dit_asym_atl2_mean vs run
χ² / ndf 22.11 / 19
p0 1.065e+04 ± 5975
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −51.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

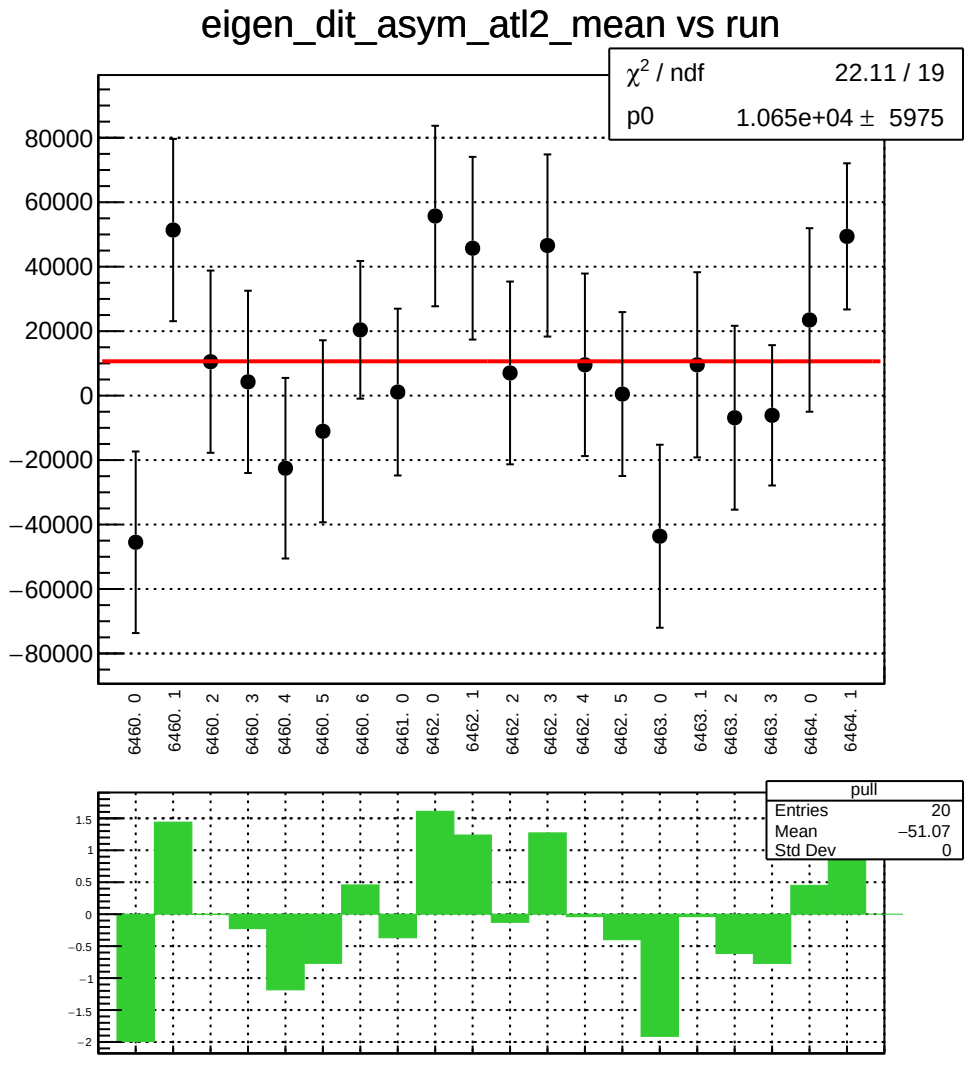

pull1D
Entries 20
Mean −0.01334
Std Dev 1.051
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

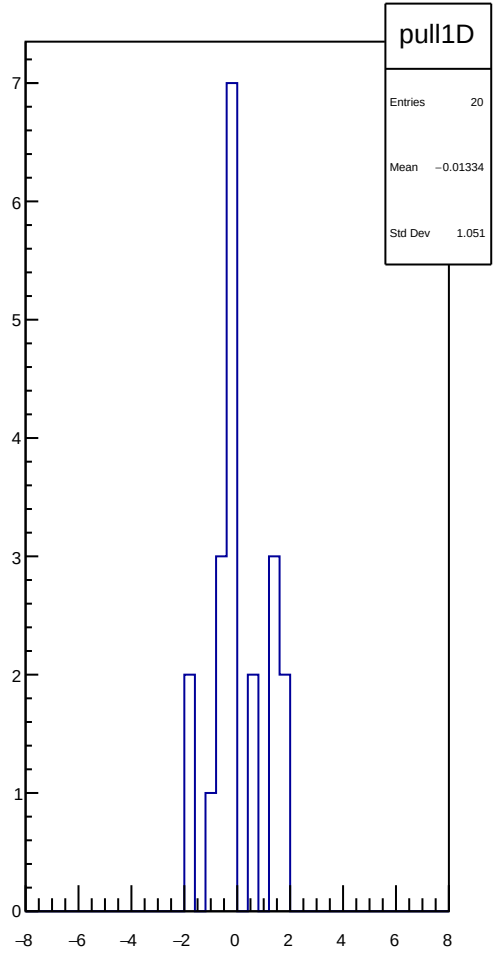

dit_asym_atl2_rms vs run
χ² / ndf 21.15 / 19
p0 2689 ± 4.225
2740
2720
2700
2680
2660
2640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

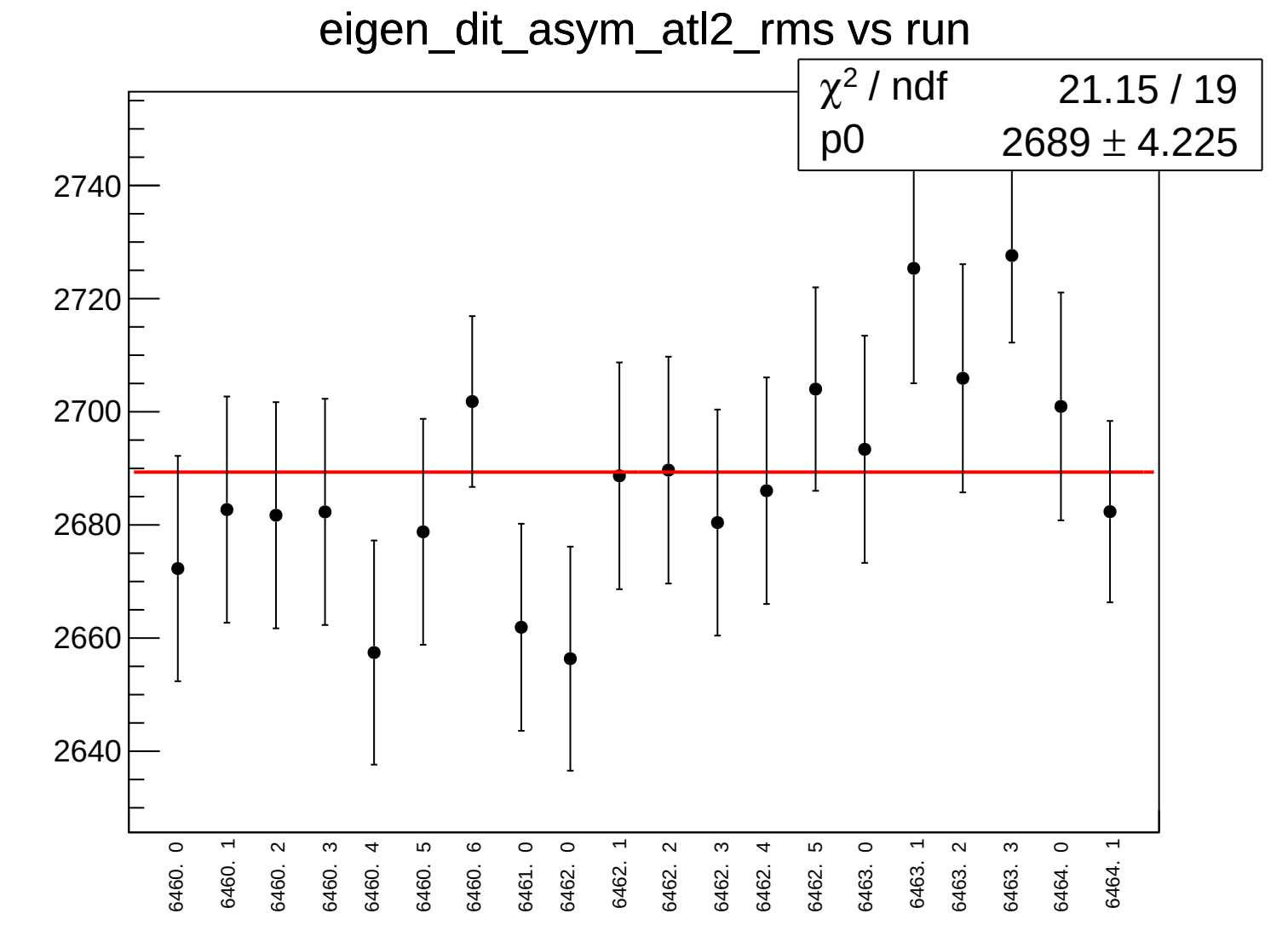

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 9.904 / 19
p0 1.673e+04 ± 1.934e+04
200
150
100
50
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.37
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

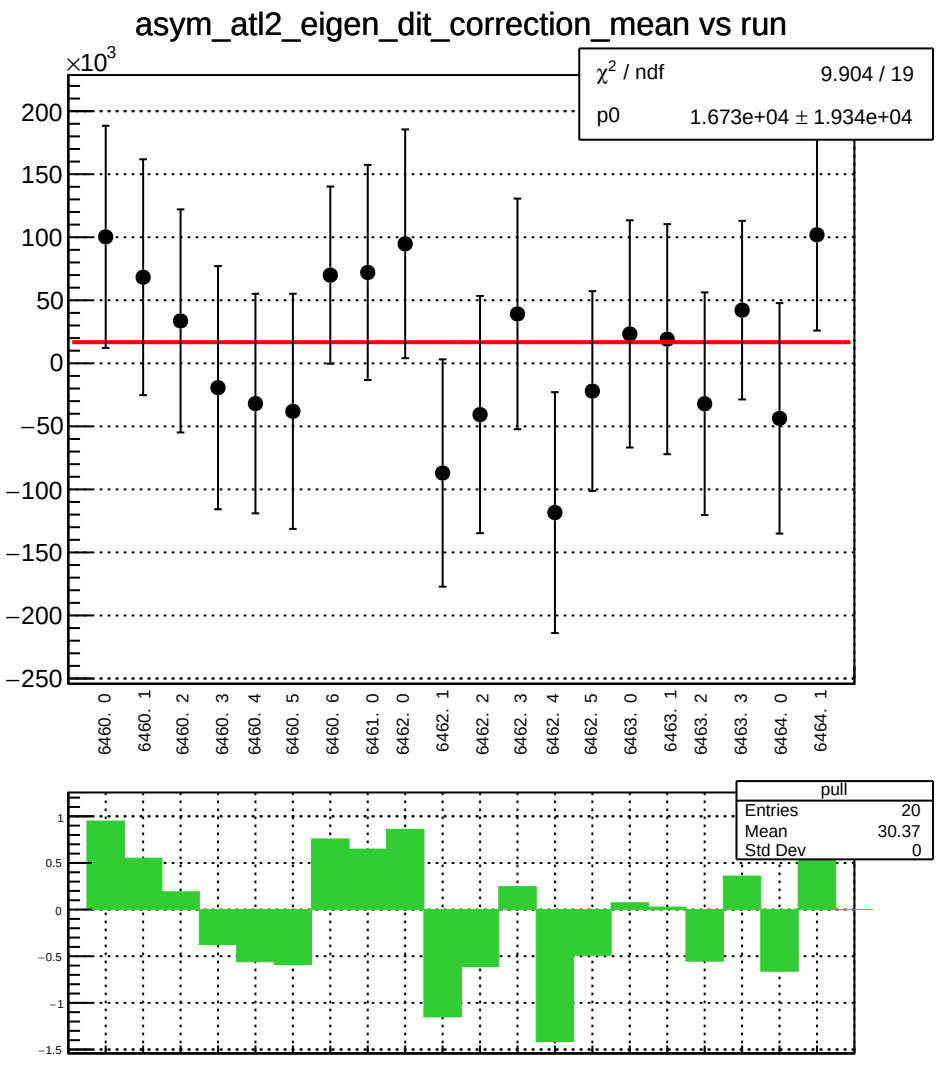

pull1D
Entries 20
Mean −0.03076
Std Dev 0.703
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

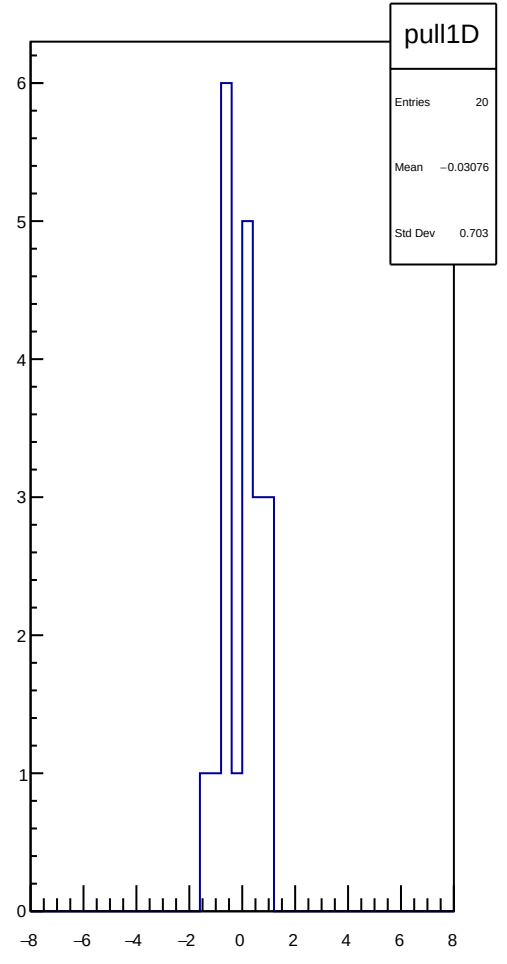

asym_atl2_dit_correction_rms vs run
χ² / ndf 321.1 / 19
p0 8700 ± 13.67
9200
9000
8800
8600
8400
8200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

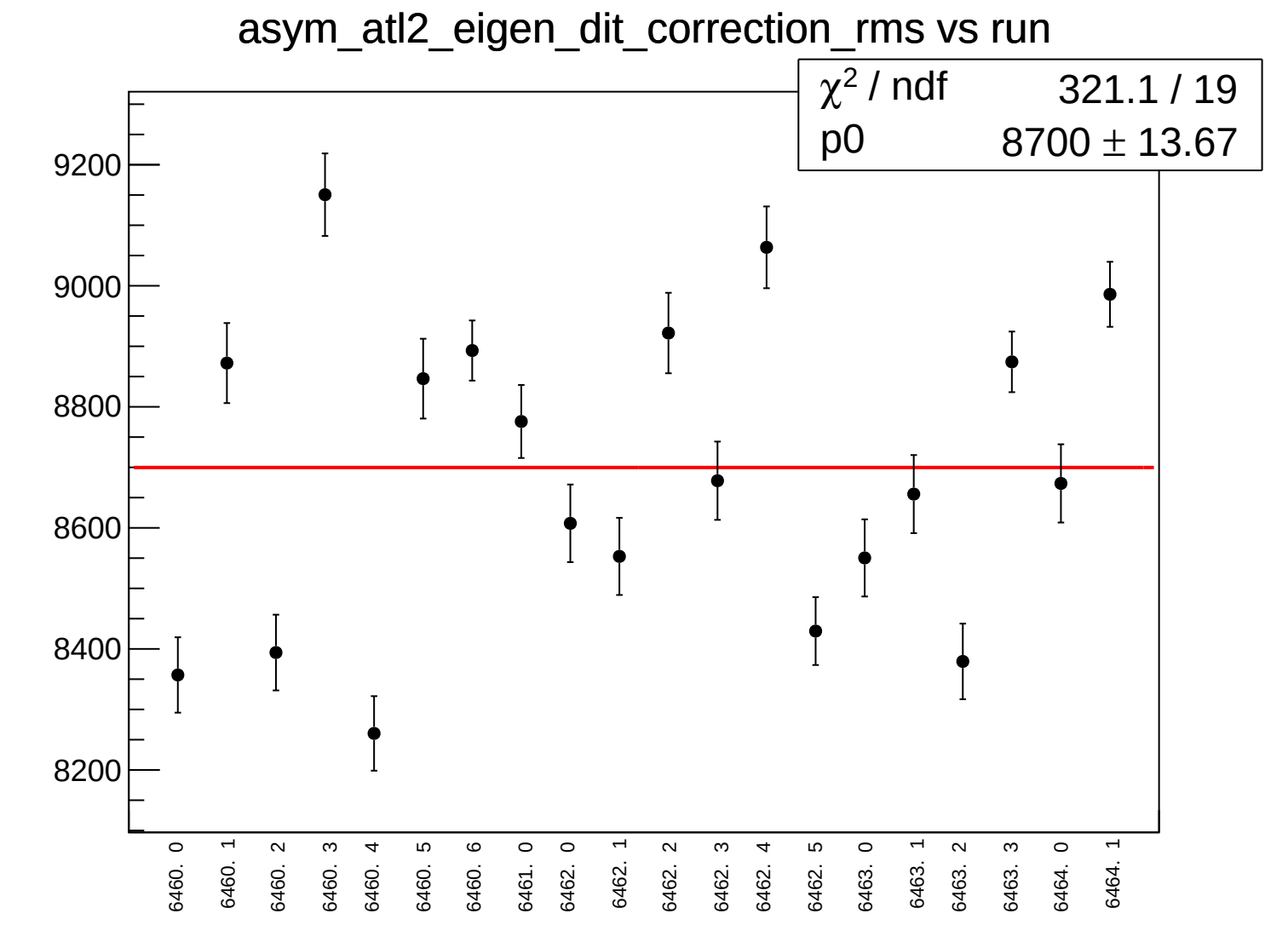

eigen_dit_asym_atl2_mean vs run
χ² / ndf 22.11 / 19
p0 1.065e+04 ± 5975
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −51.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

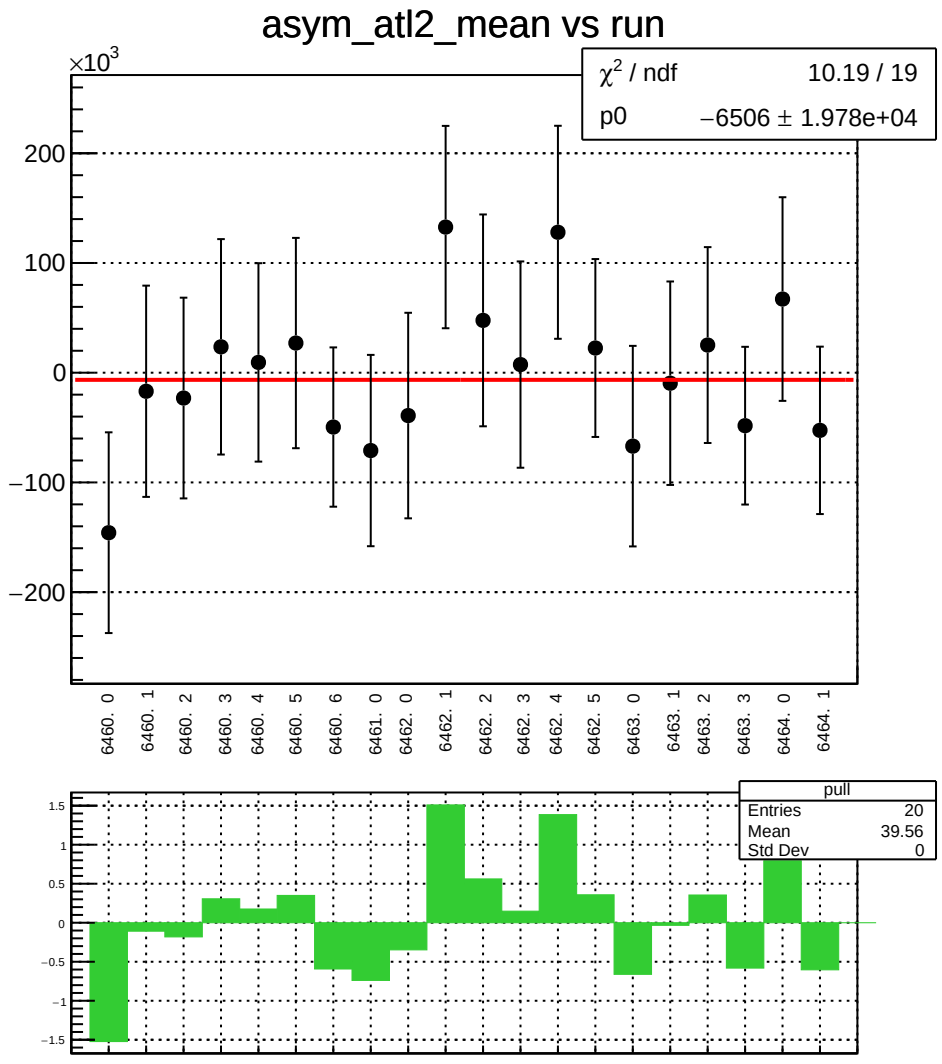

pull1D
Entries 20
Mean −0.01334
Std Dev 1.051
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

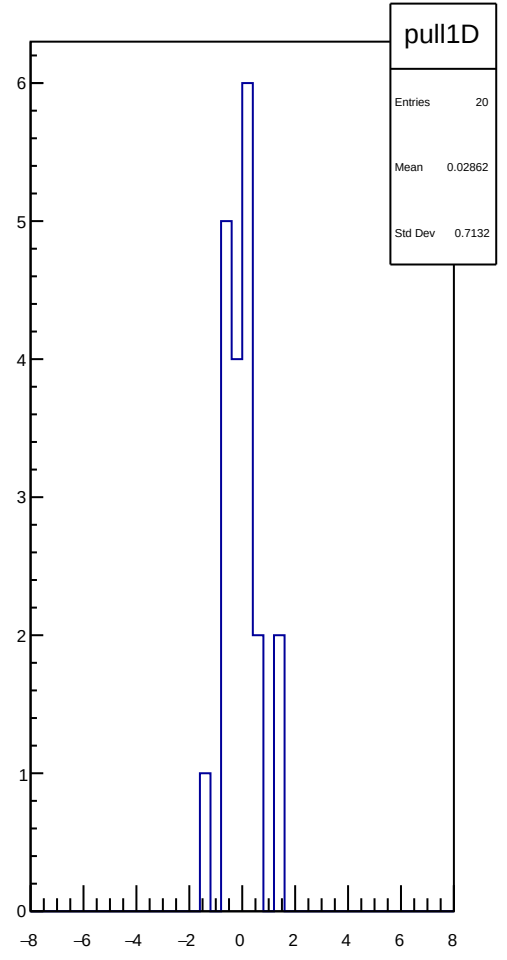

eigen_dit_asym_atl2_rms vs run
χ² / ndf 21.15 / 19
p0 2689 ± 4.225
2740
2720
2700
2680
2660
2640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

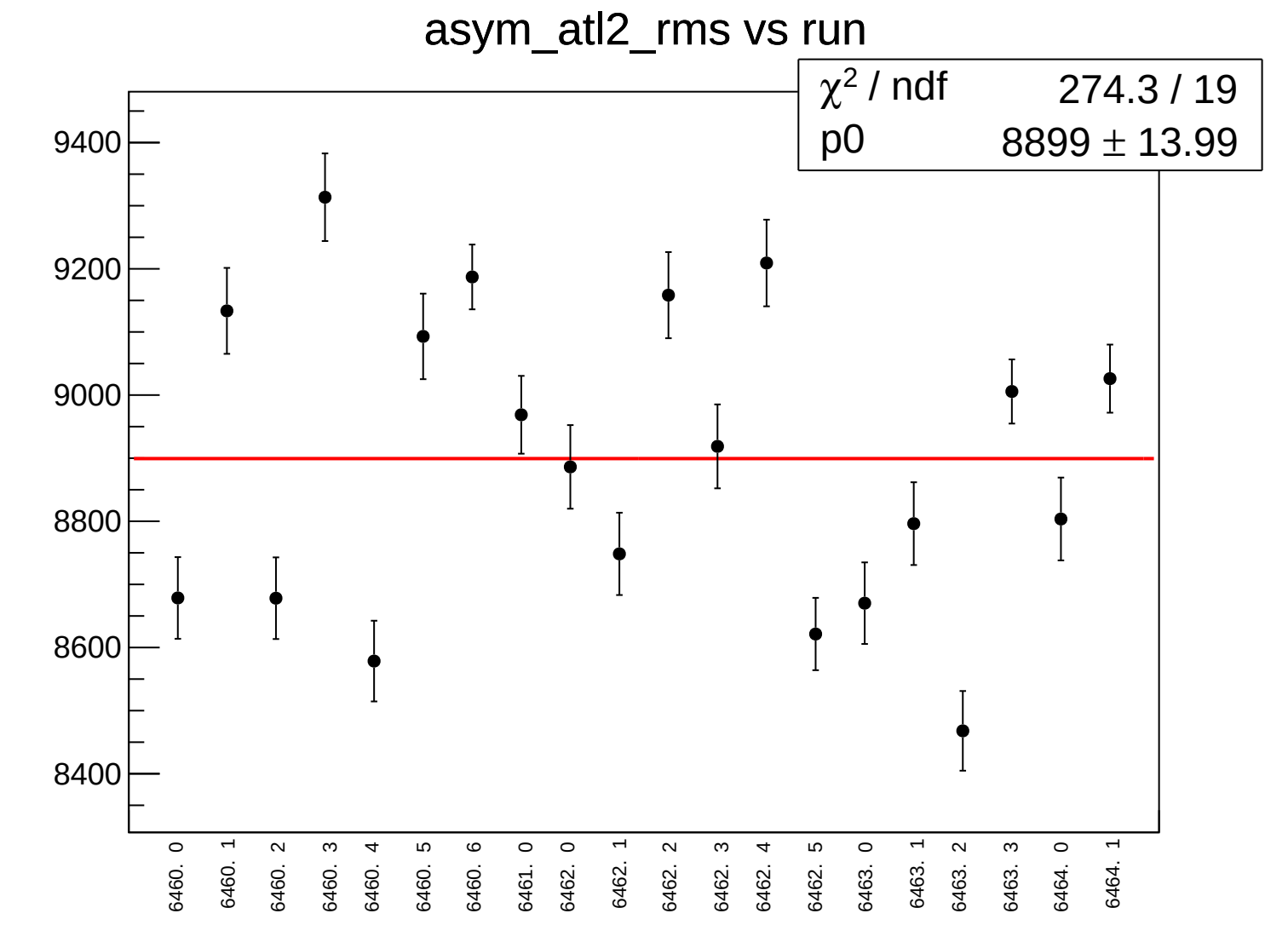

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 9.904 / 19
p0 1.673e+04 ± 1.934e+04
200
150
100
50
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.37
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

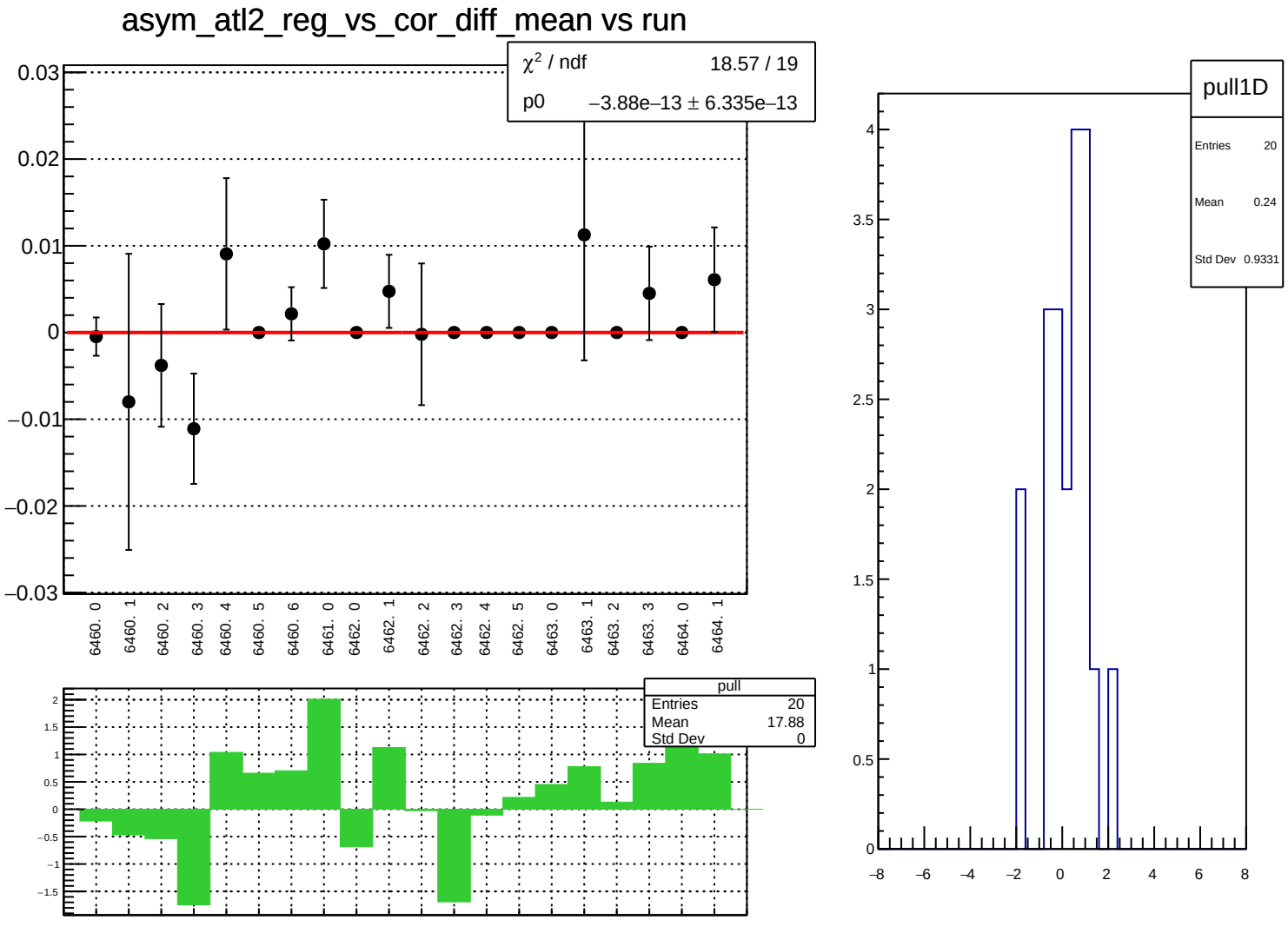

pull1D
Entries 20
Mean −0.03076
Std Dev 0.703
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

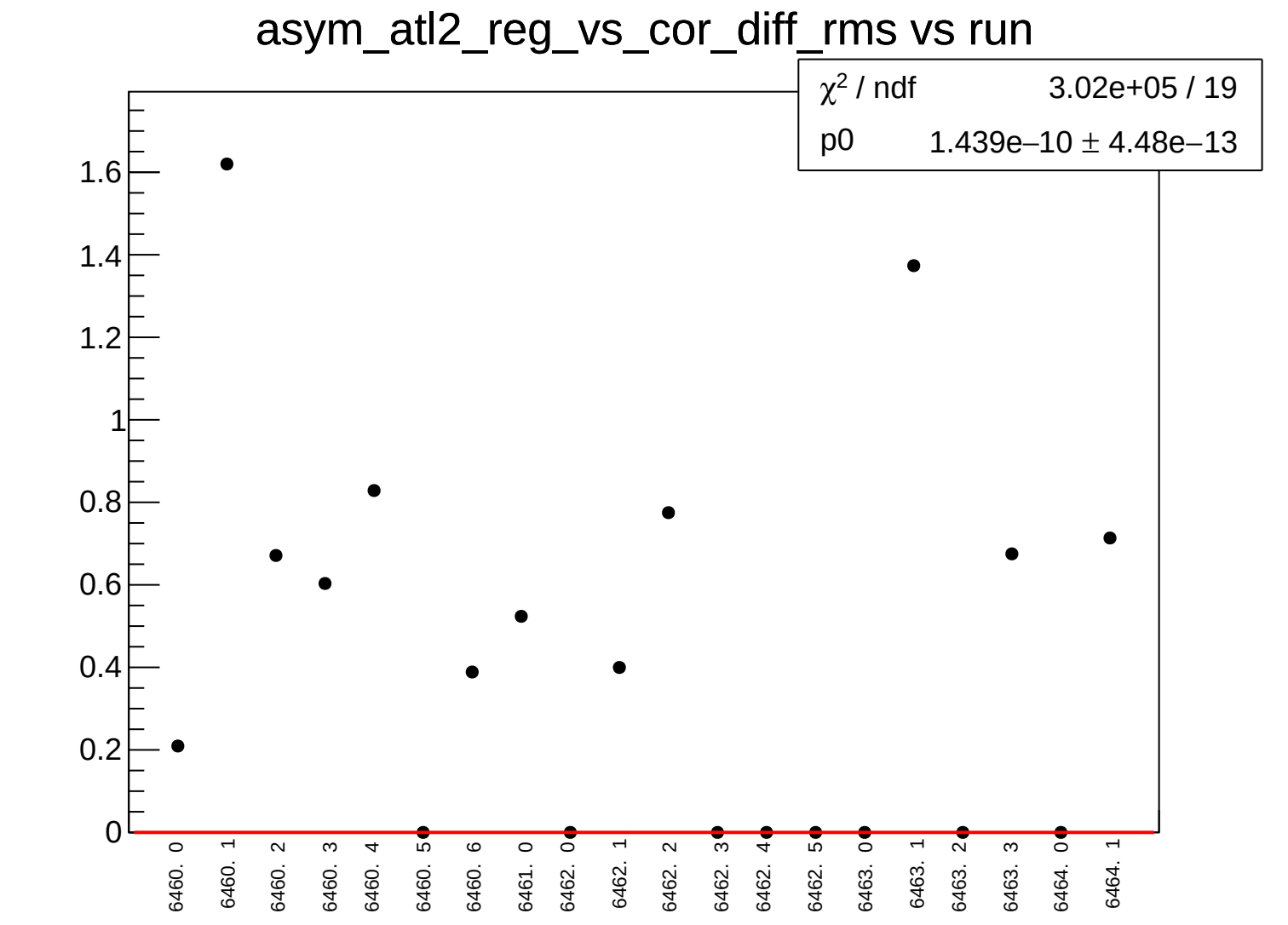

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 321.1 / 19
p0 8700 ± 13.67
9200
9000
8800
8600
8400
8200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

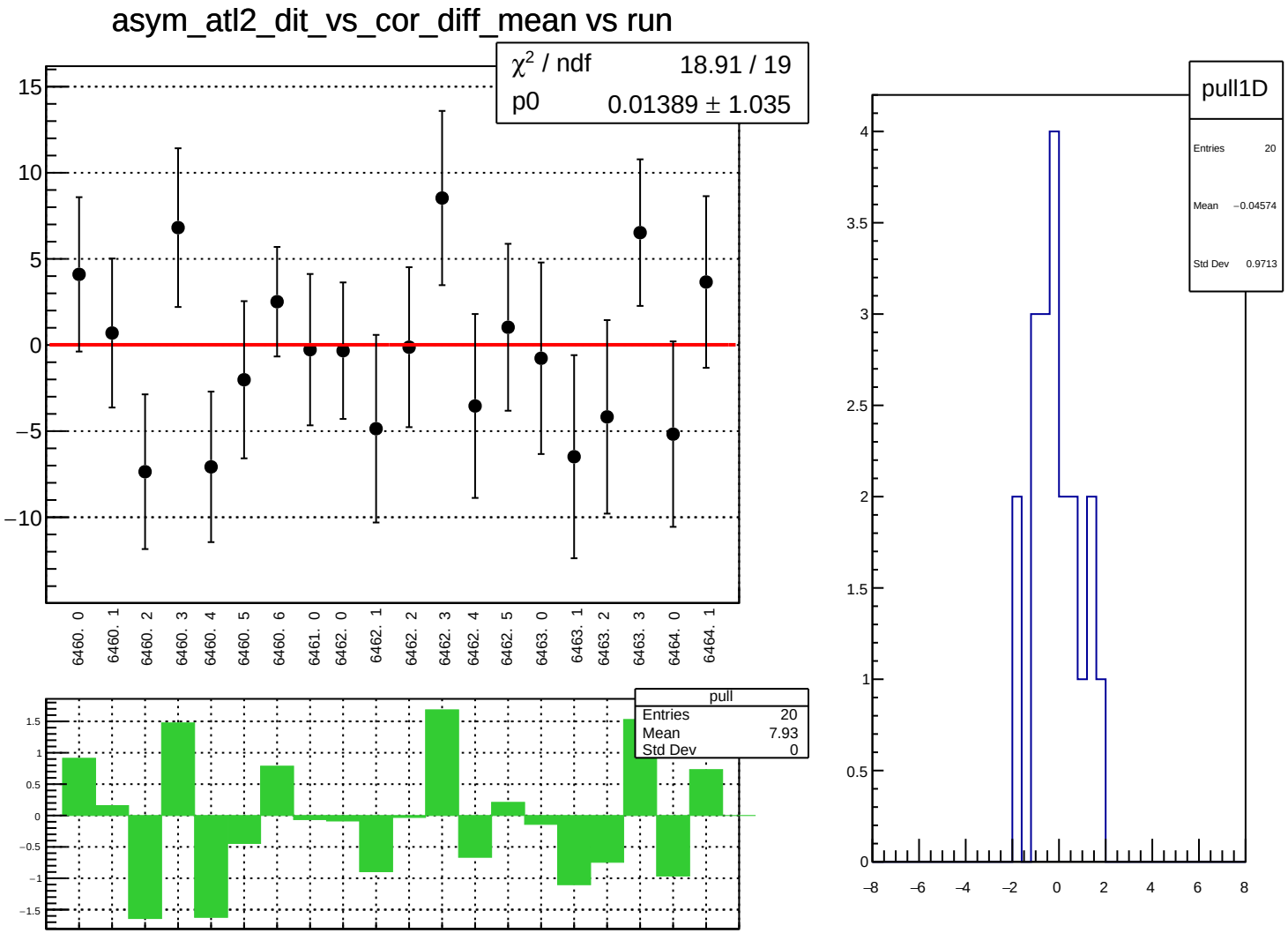

asym_atl2_mean vs run
×10^3
χ² / ndf 10.19 / 19
p0 −6506 ± 1.978e+04
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

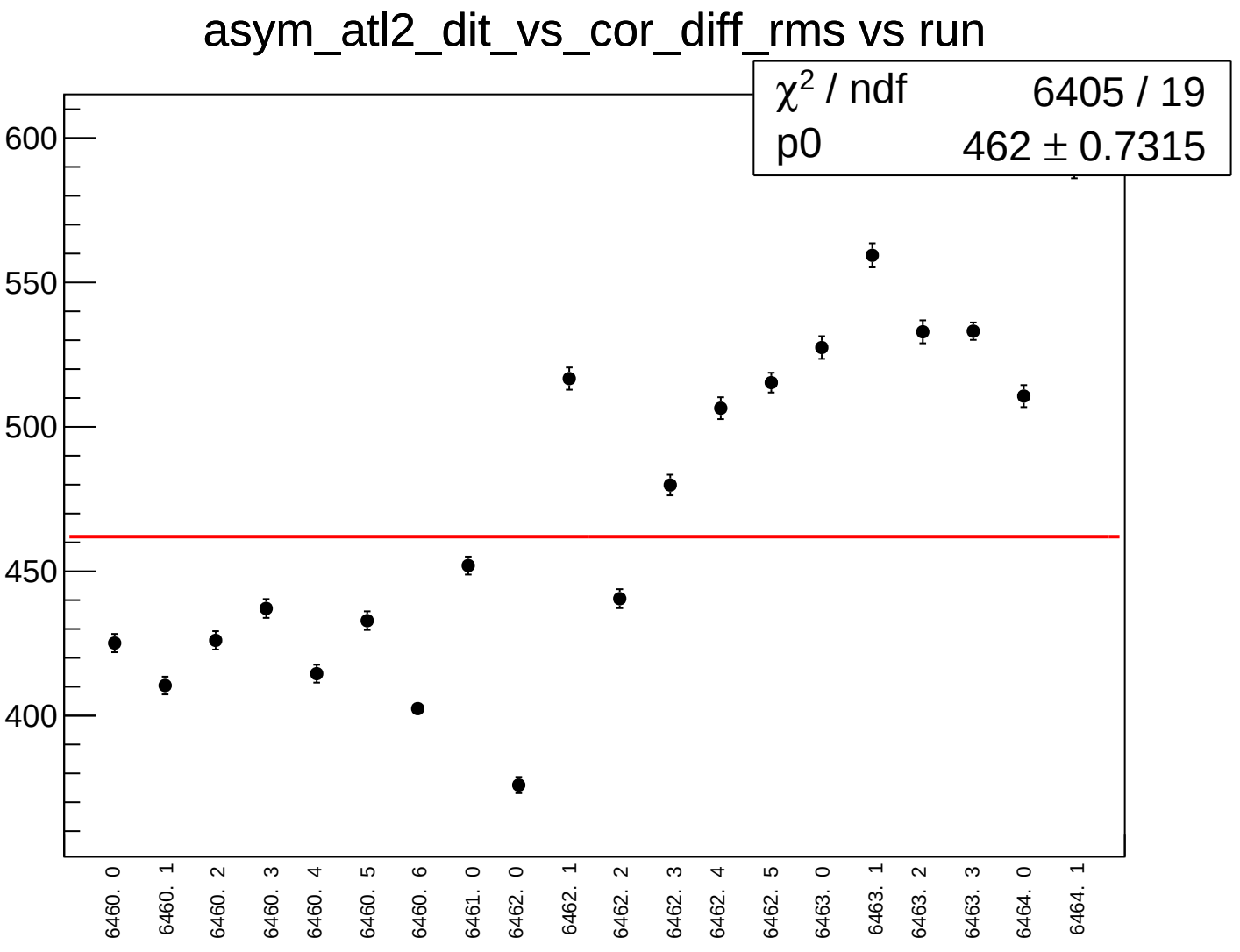

pull1D
Entries 20
Mean 0.02862
Std Dev 0.7132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

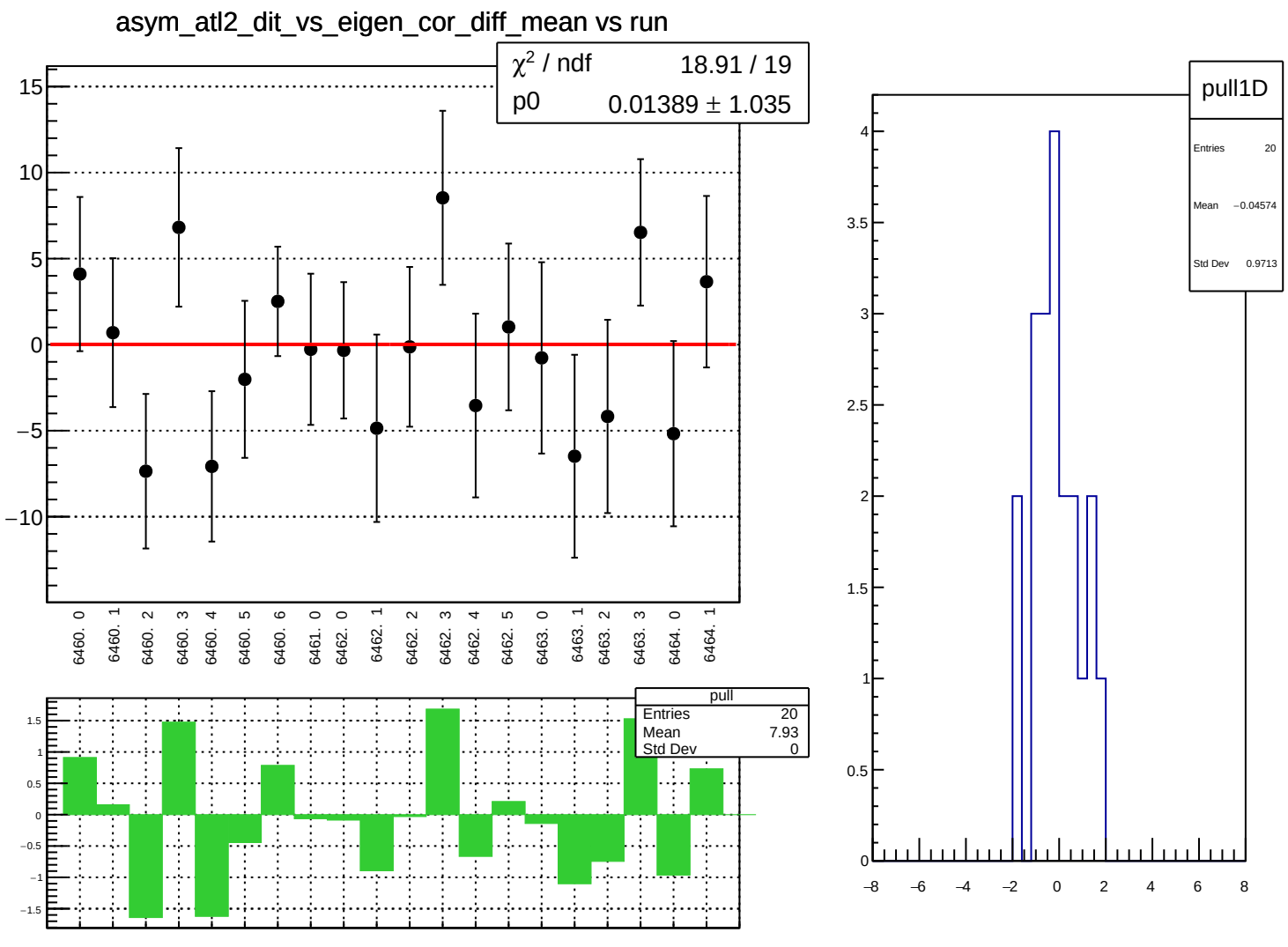

asym_atl2_rms vs run
χ² / ndf 274.3 / 19
p0 8899 ± 13.99
9400
9200
9000
8800
8600
8400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

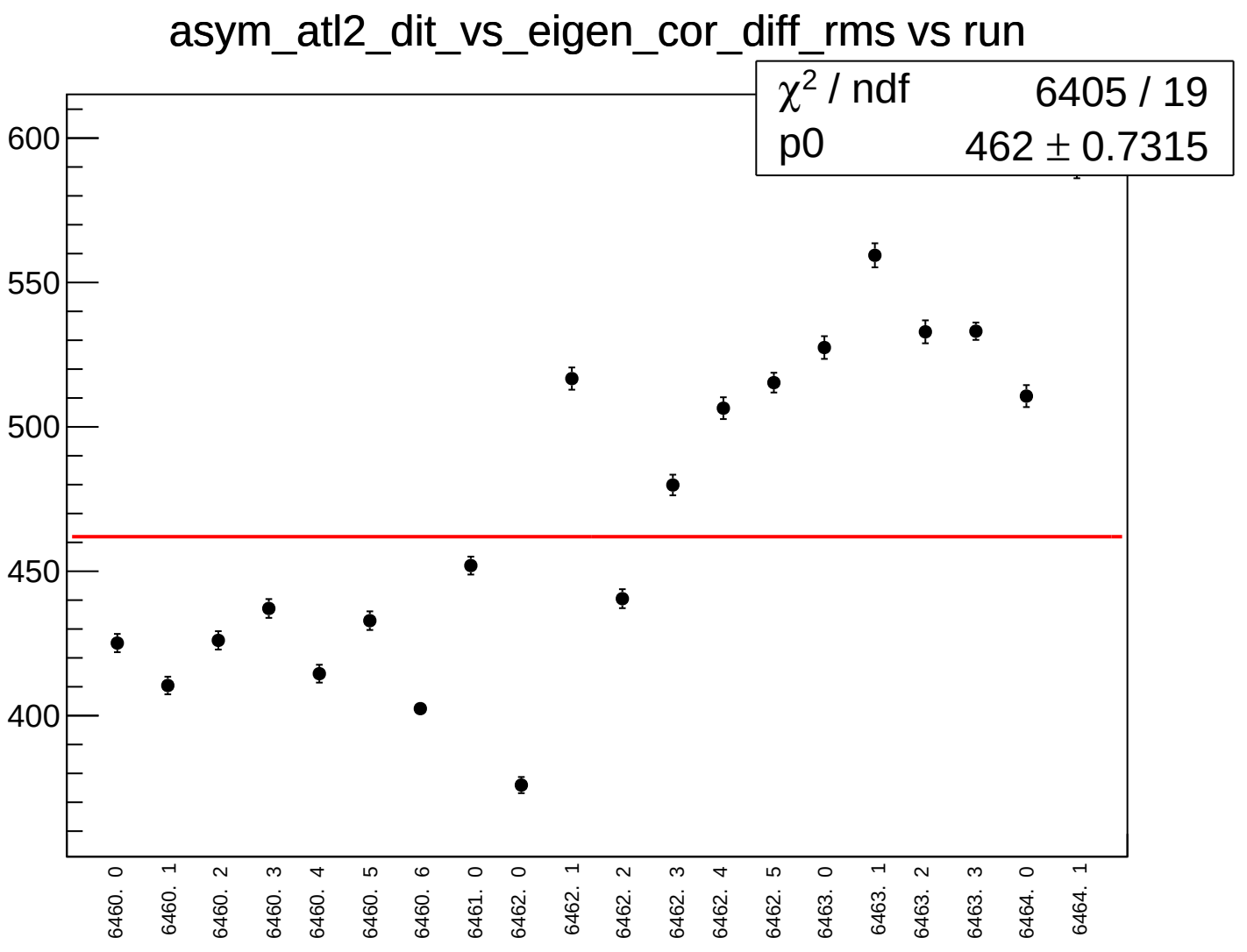

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 18.57 / 19
p0 −3.88e−13 ± 6.335e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 17.88
Std Dev 0
pull1D
Entries 20
Mean 0.24
Std Dev 0.9331

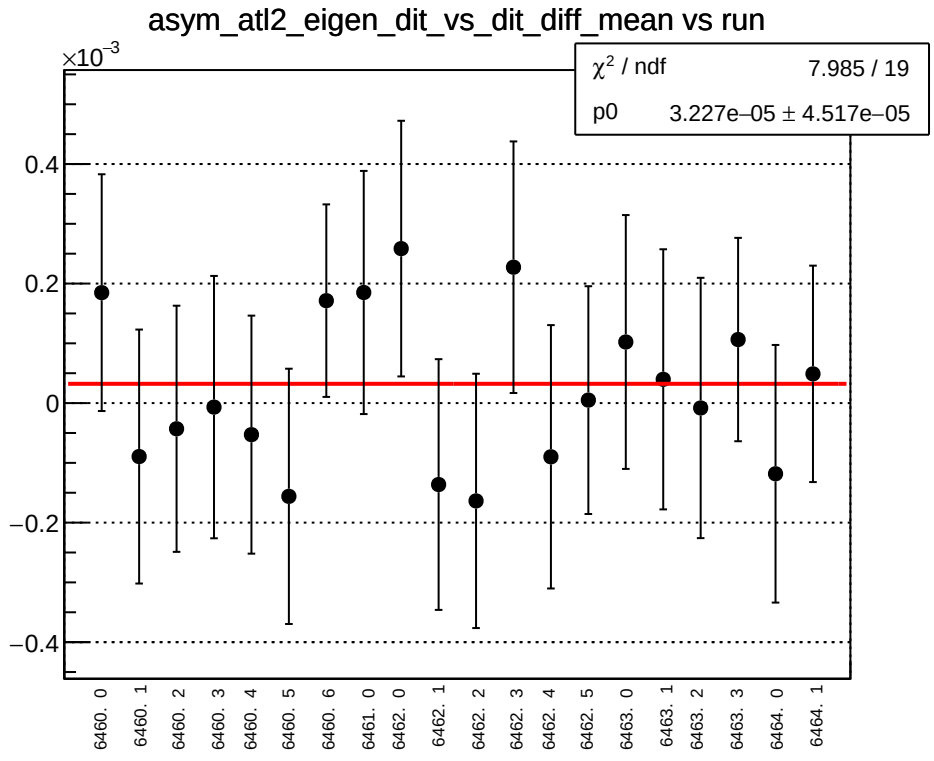

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 3.02e+05 / 19
p0 1.439e−10 ± 4.48e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

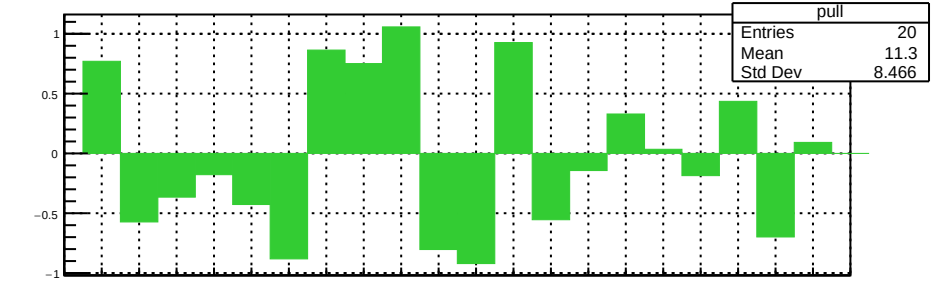

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 18.91 / 19
p0 0.01389 ± 1.035
15
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.93
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.04574
Std Dev 0.9713
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

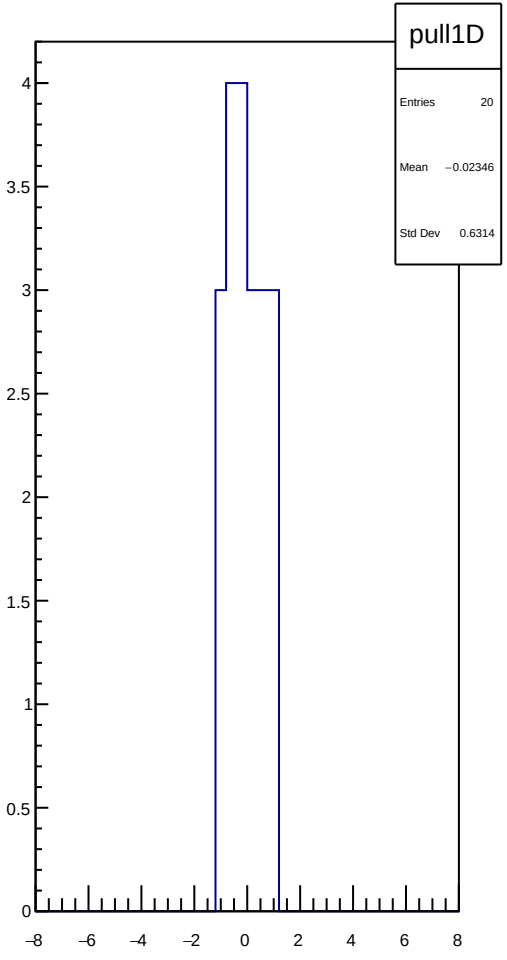

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 6405 / 19
p0 462 ± 0.7315
600
550
500
450
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

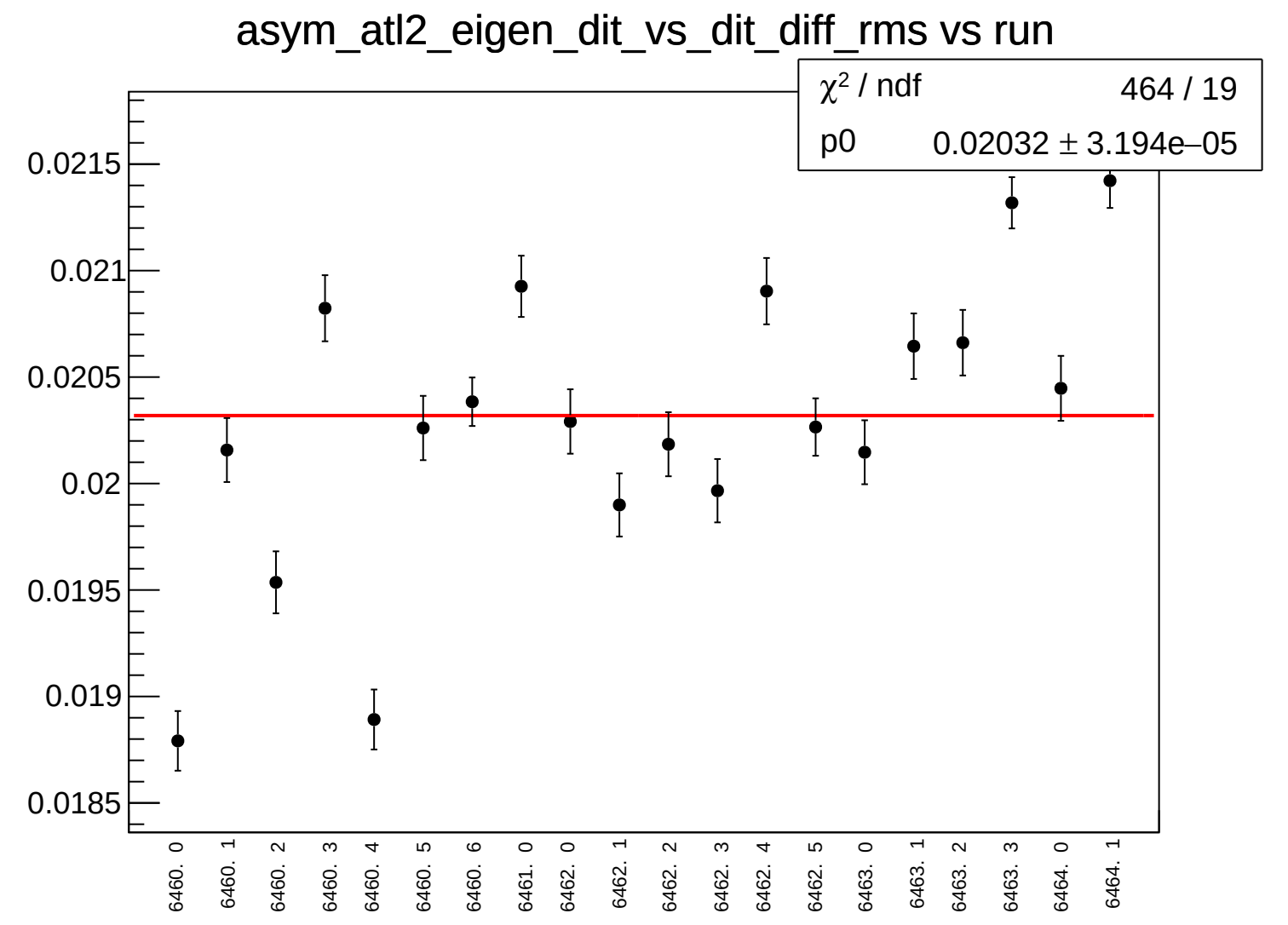

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.91 / 19
p0 0.01389 ± 1.035
15
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.93
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.04574
Std Dev 0.9713
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

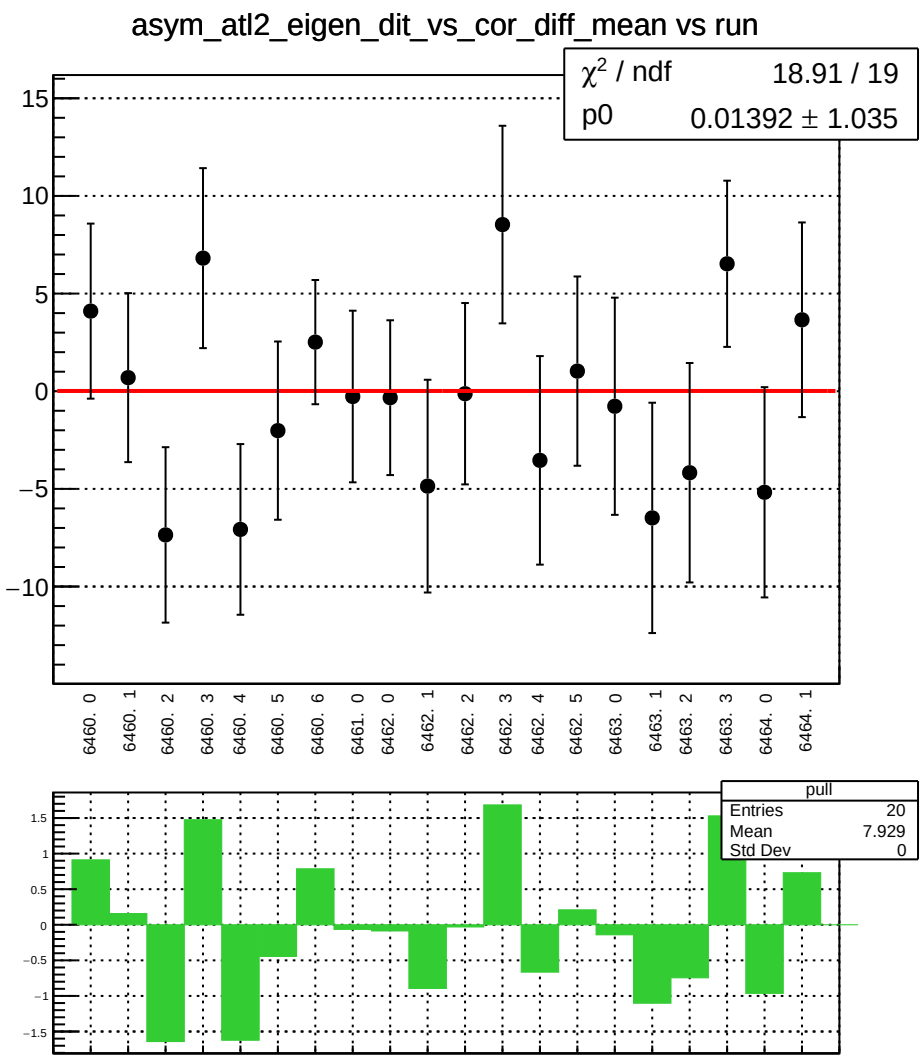

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6405 / 19
p0 462 ± 0.7315
600
550
500
450
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

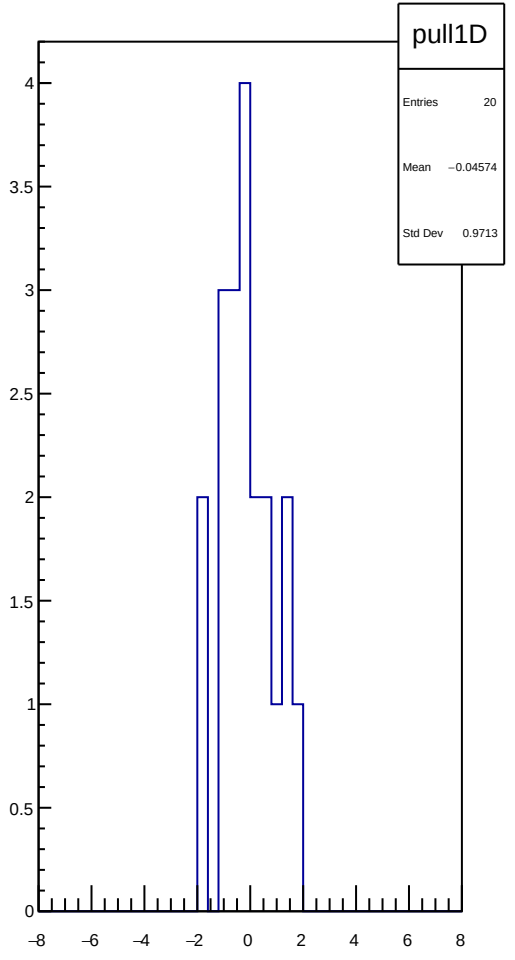

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 7.985 / 19
p0 3.227e−05 ± 4.517e−05
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

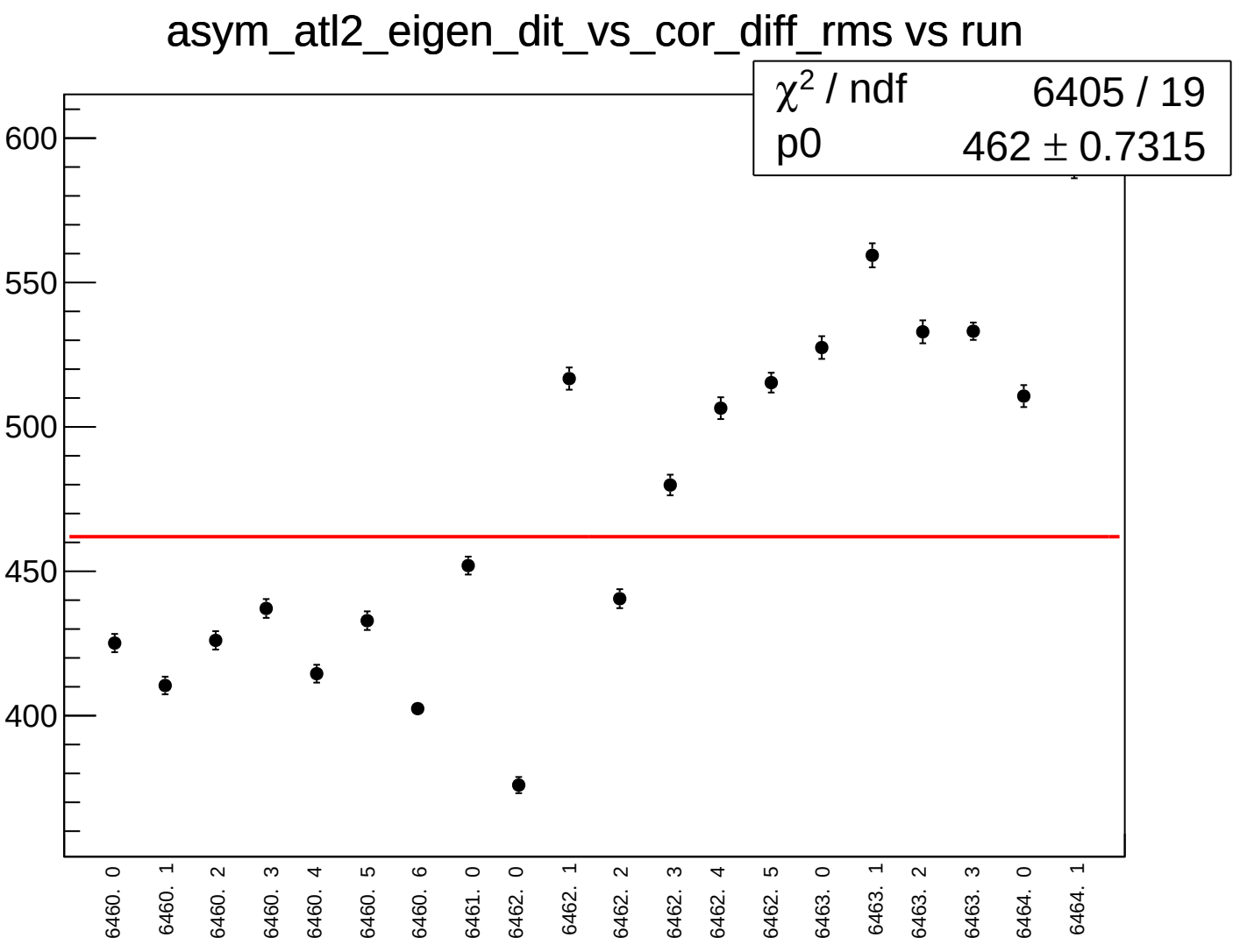

pull
Entries 20
Mean 11.3
Std Dev 8.466
1
0.5
0
−0.5
−1

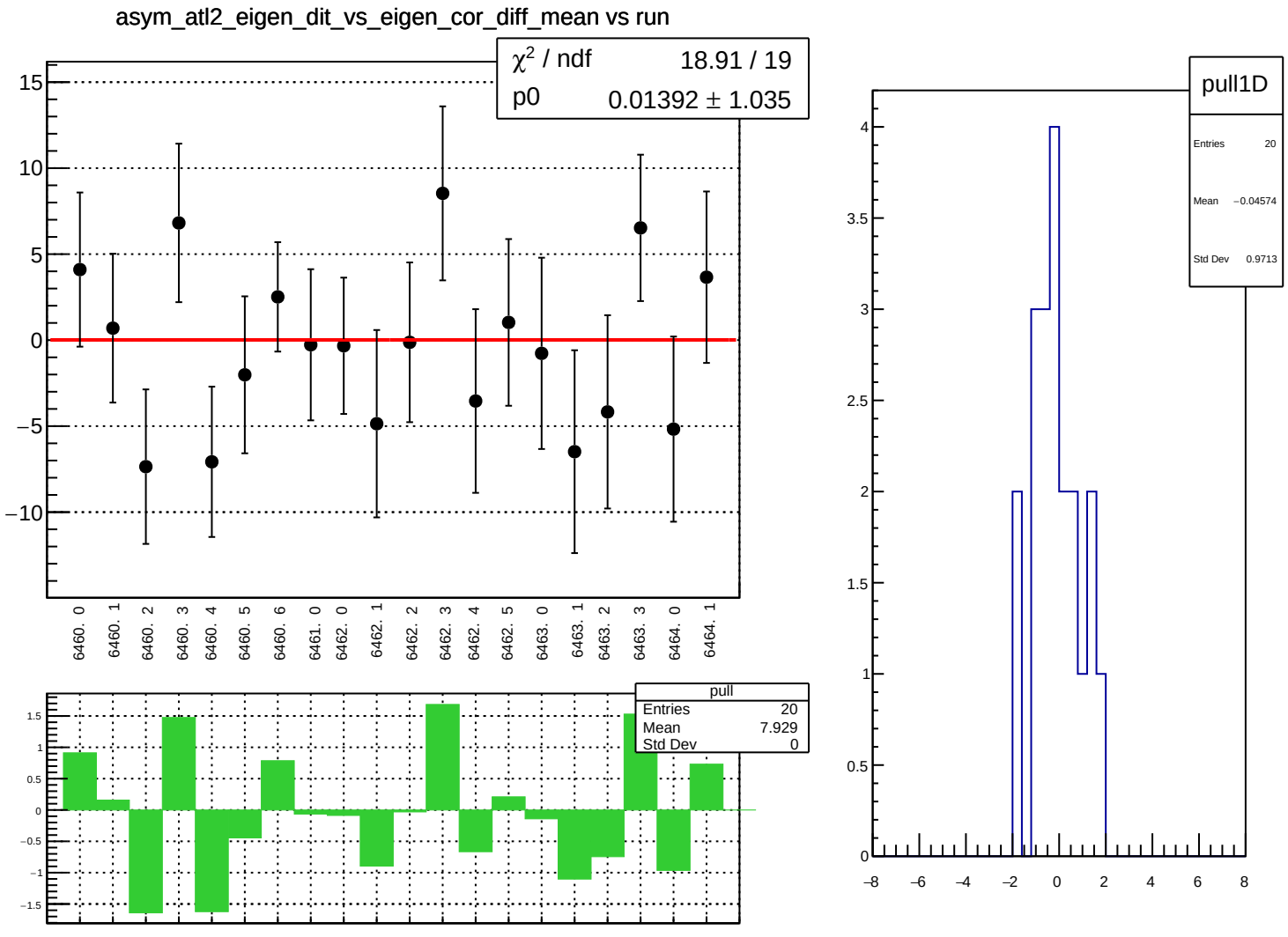

pull1D
Entries 20
Mean −0.02346
Std Dev 0.6314
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

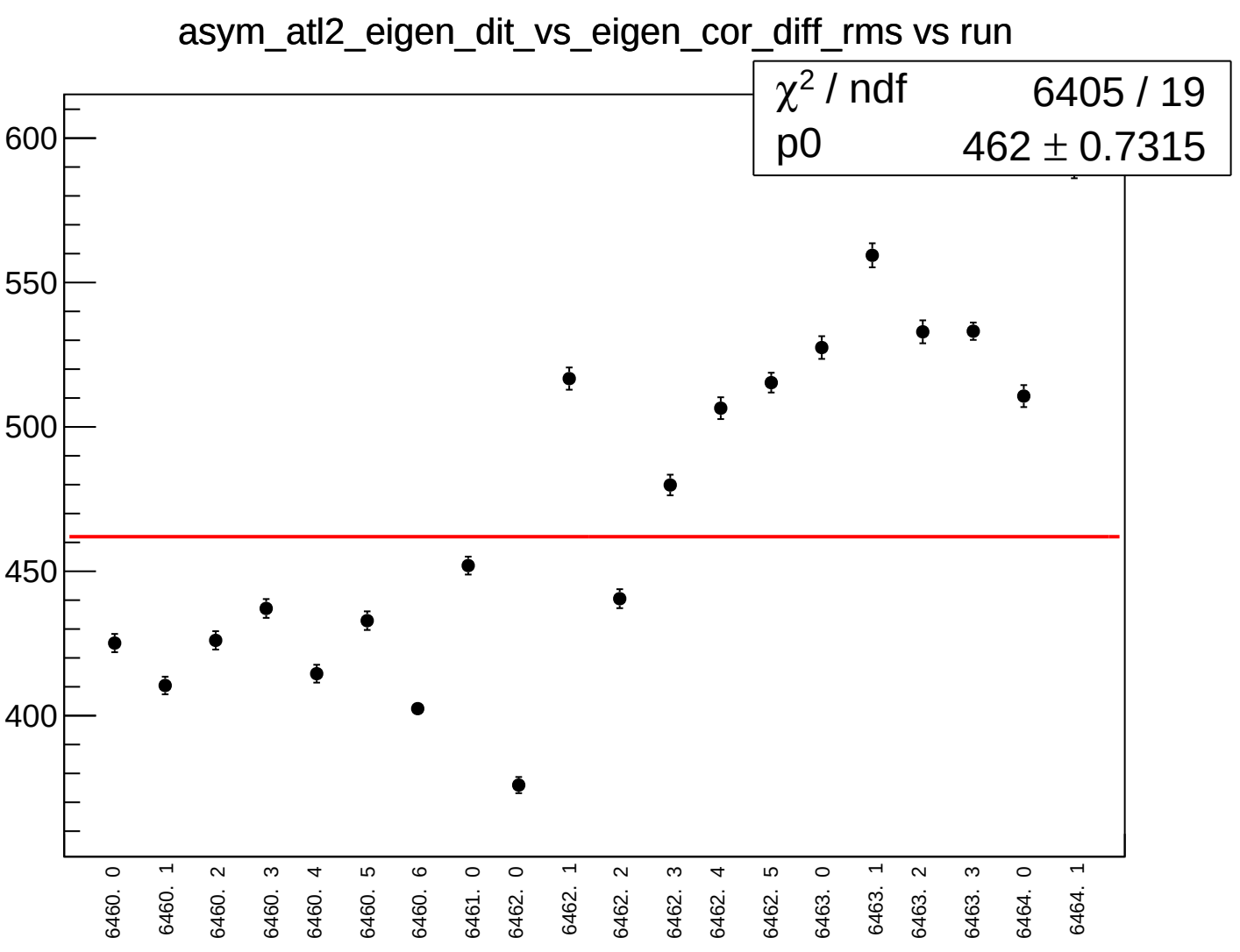

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 464 / 19
p0 0.02032 ± 3.194e–05
0.0215
0.021
0.0205
0.02
0.0195
0.019
0.0185
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

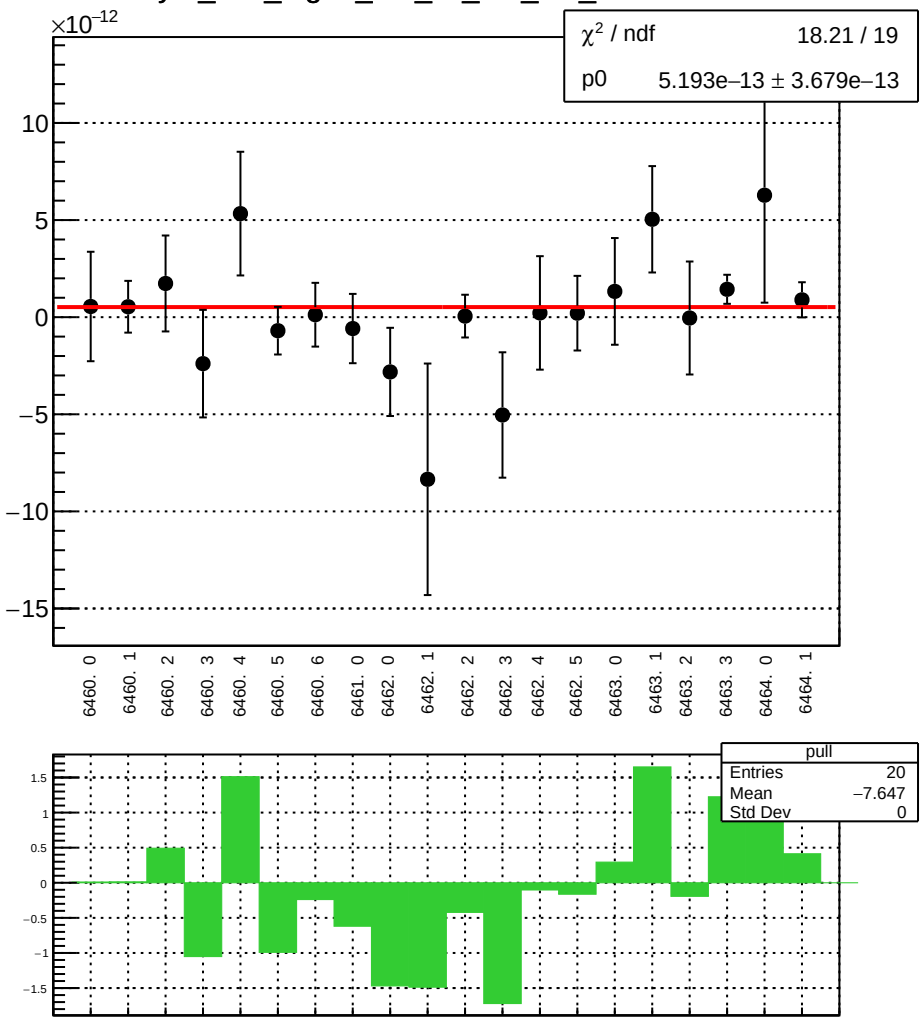

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.91 / 19
p0 0.01392 ± 1.035
15
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.929
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

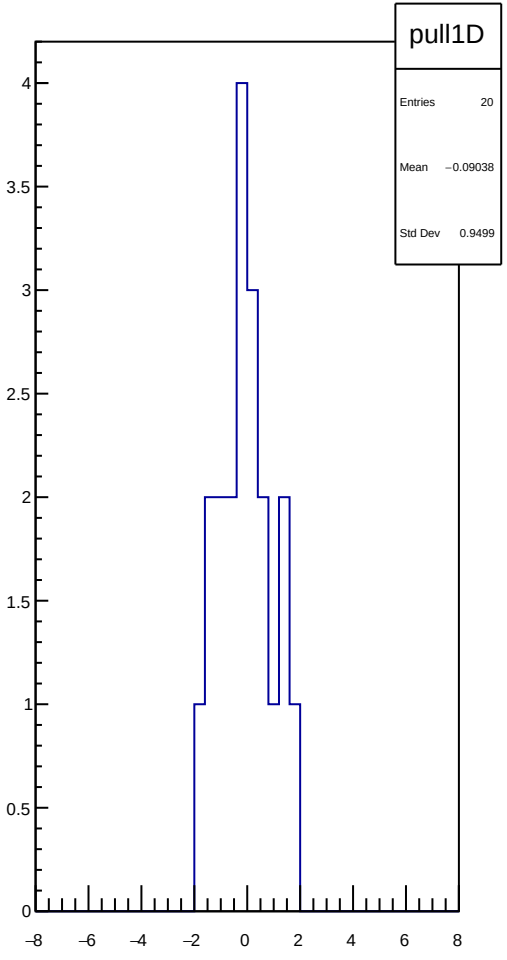

pull1D
Entries 20
Mean −0.04574
Std Dev 0.9713
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

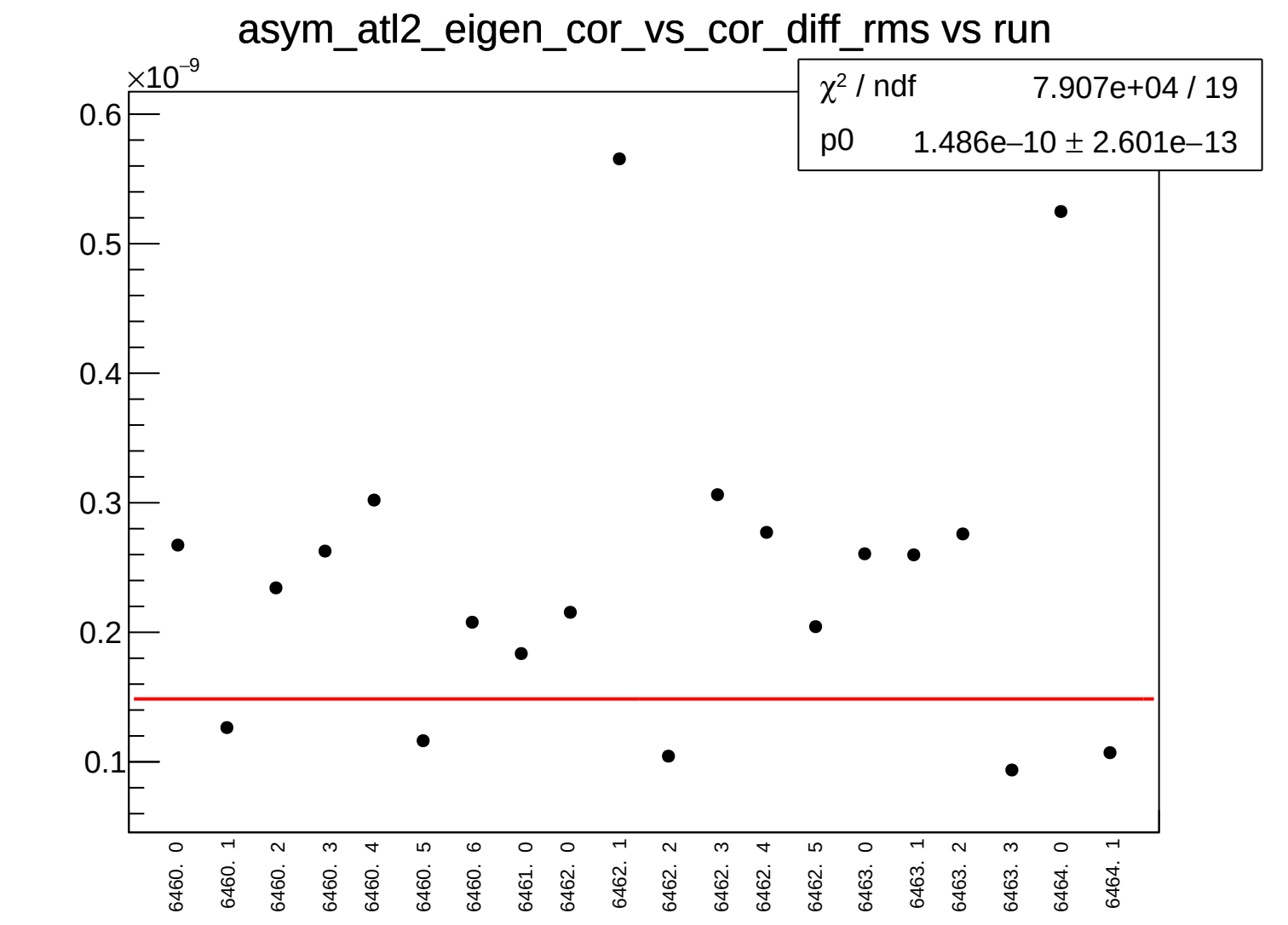

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6405 / 19
p0 462 ± 0.7315
600
550
500
450
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

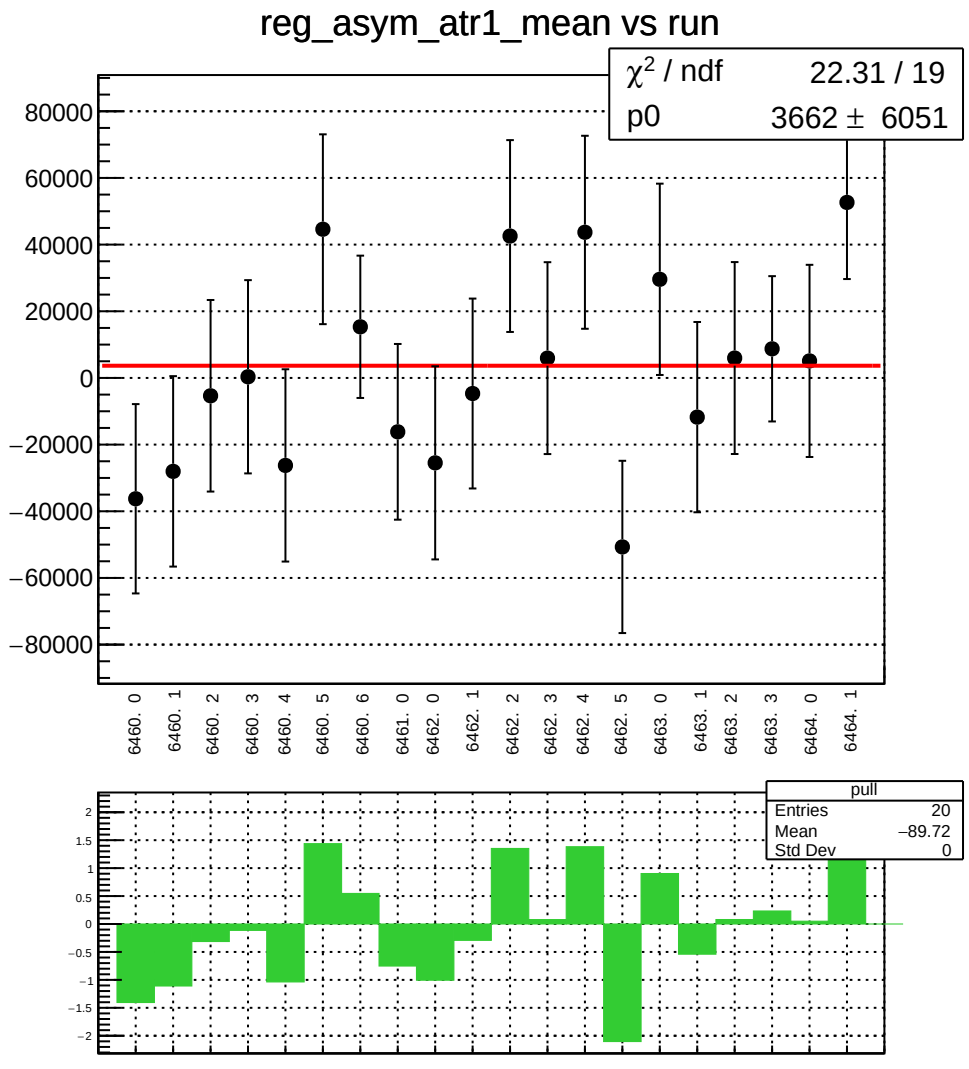

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.91 / 19
p0 0.01392 ± 1.035
15
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.929
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.04574
Std Dev 0.9713
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

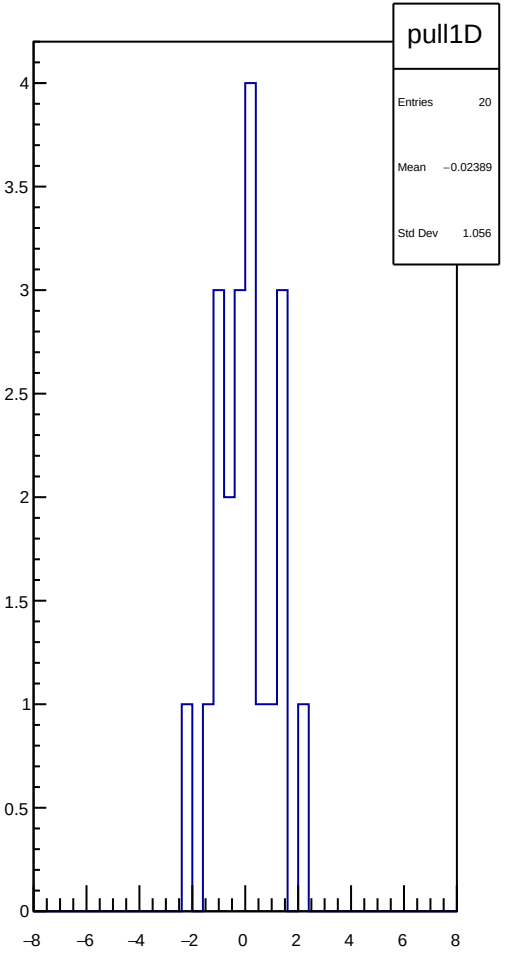

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6405 / 19
p0 462 ± 0.7315
600
550
500
450
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

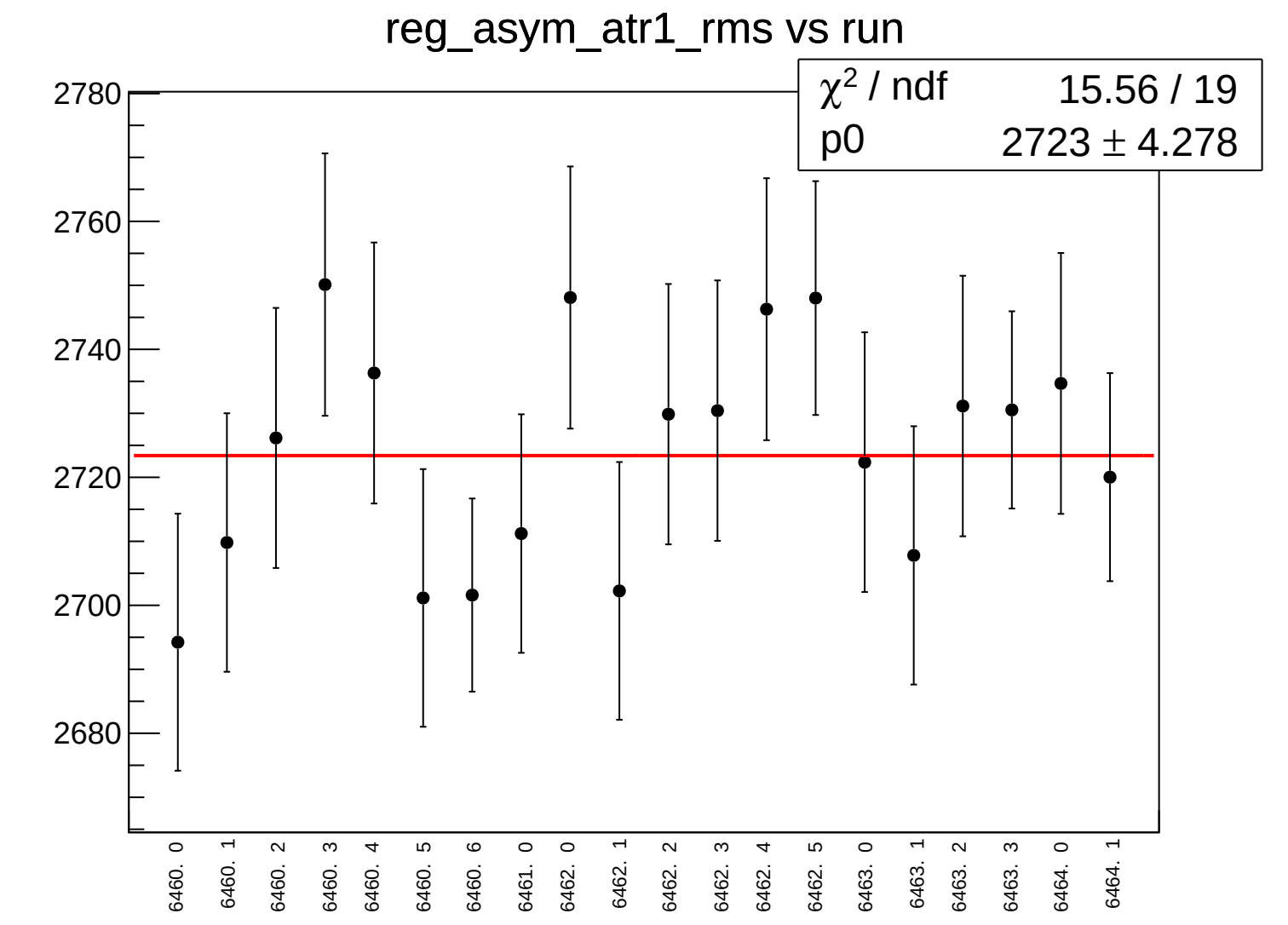

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.21 / 19
p0 5.193e−13 ± 3.679e−13
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −7.647
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

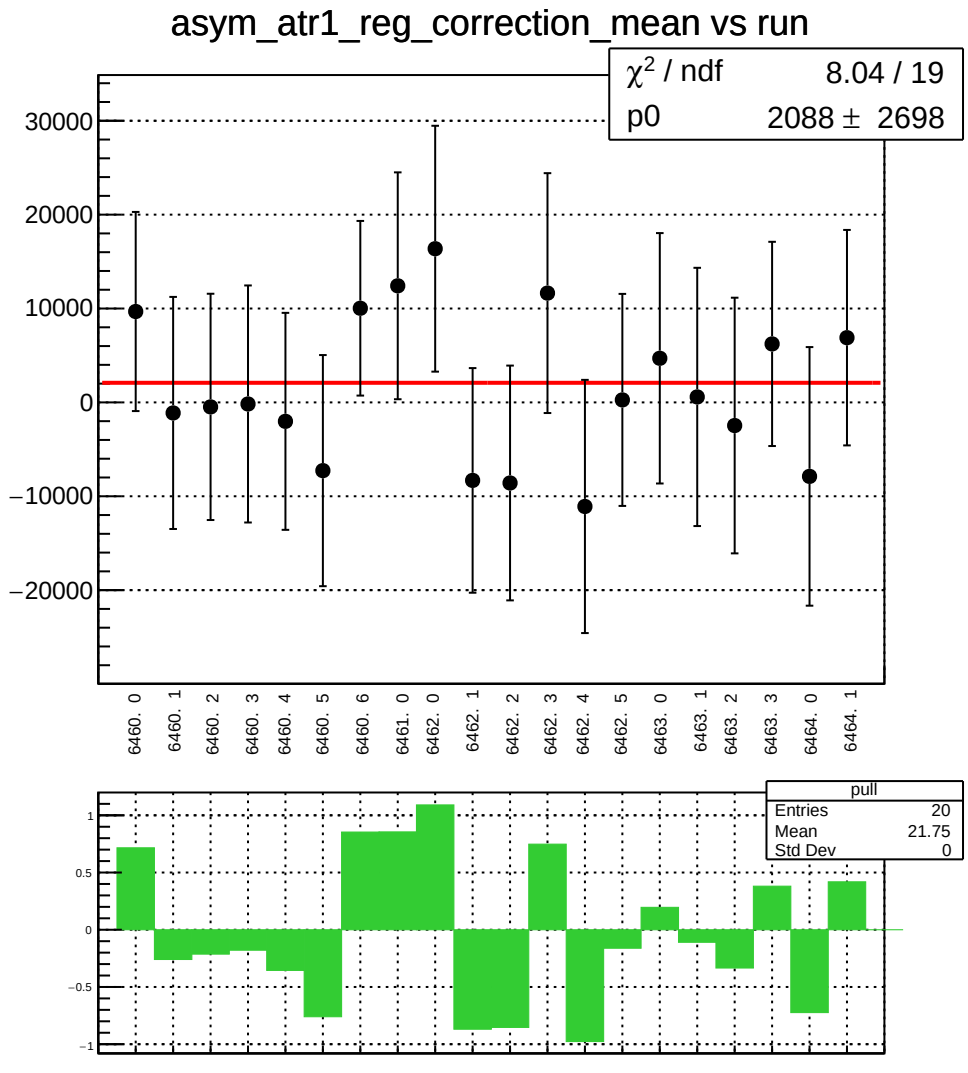

pull1D
Entries 20
Mean −0.09038
Std Dev 0.9499
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

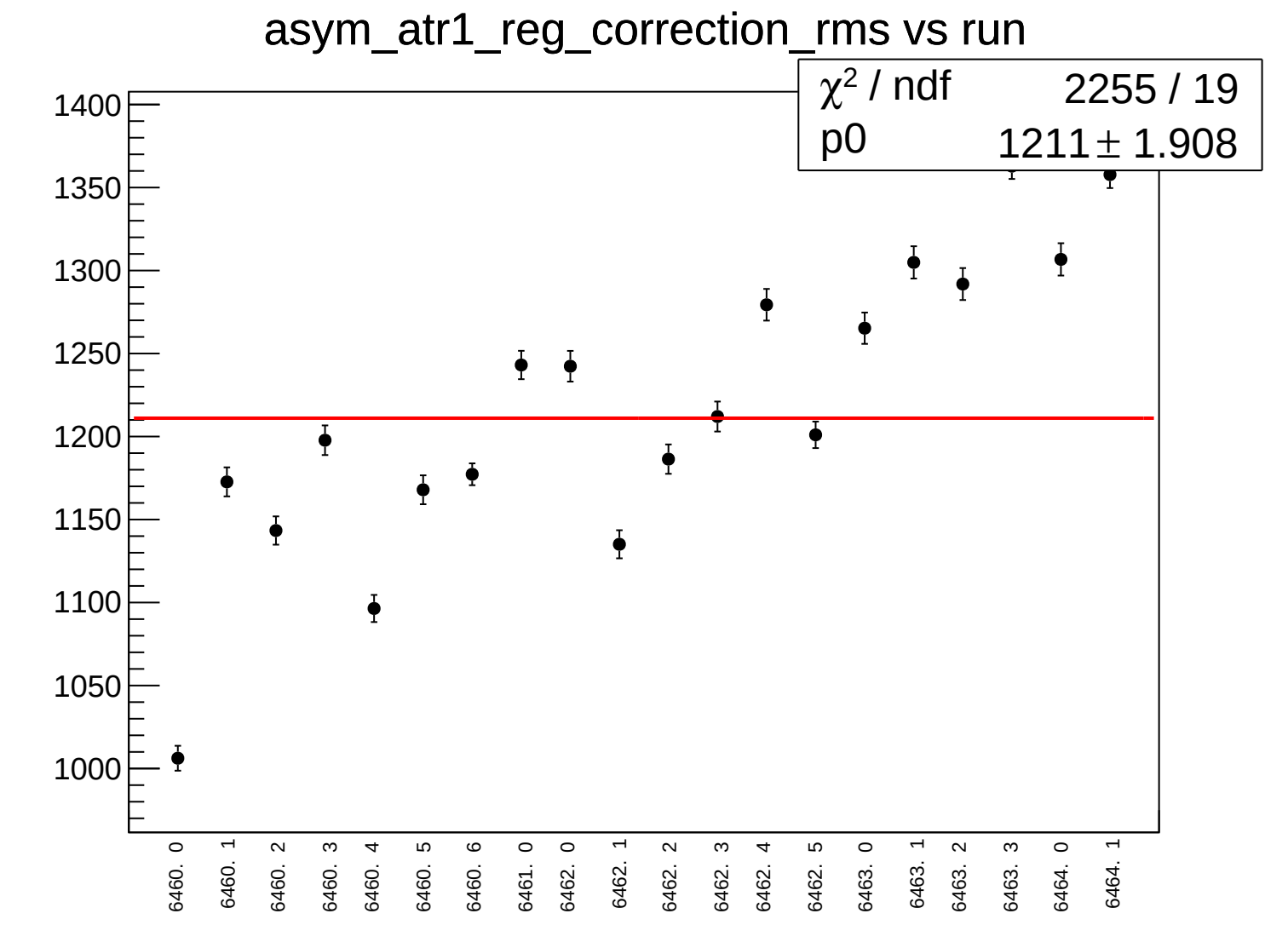

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.907e+04 / 19
p0 1.486e−10 ± 2.601e−13
0.6
0.5
0.4
0.3
0.2
0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

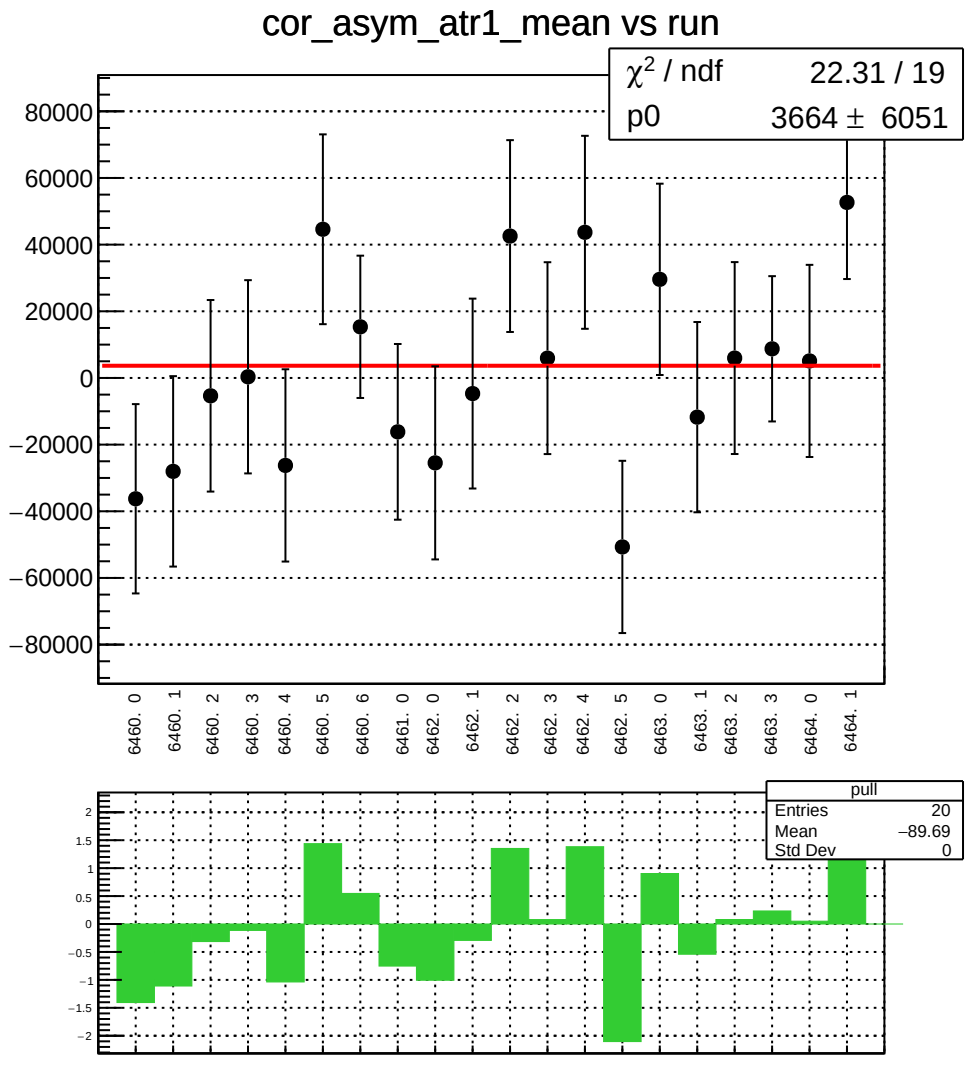

reg_asym_atr1_mean vs run
χ² / ndf 22.31 / 19
p0 3662 ± 6051
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −89.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

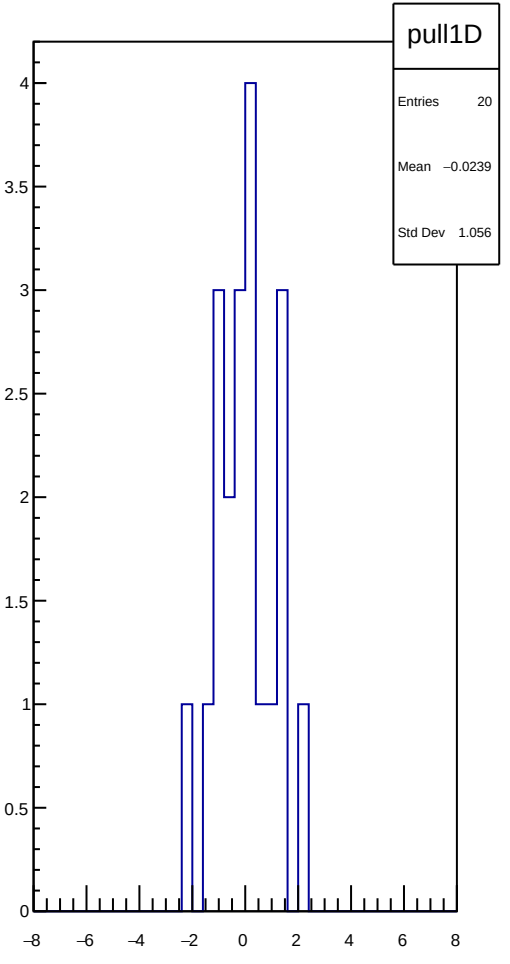

pull1D
Entries 20
Mean −0.02389
Std Dev 1.056
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

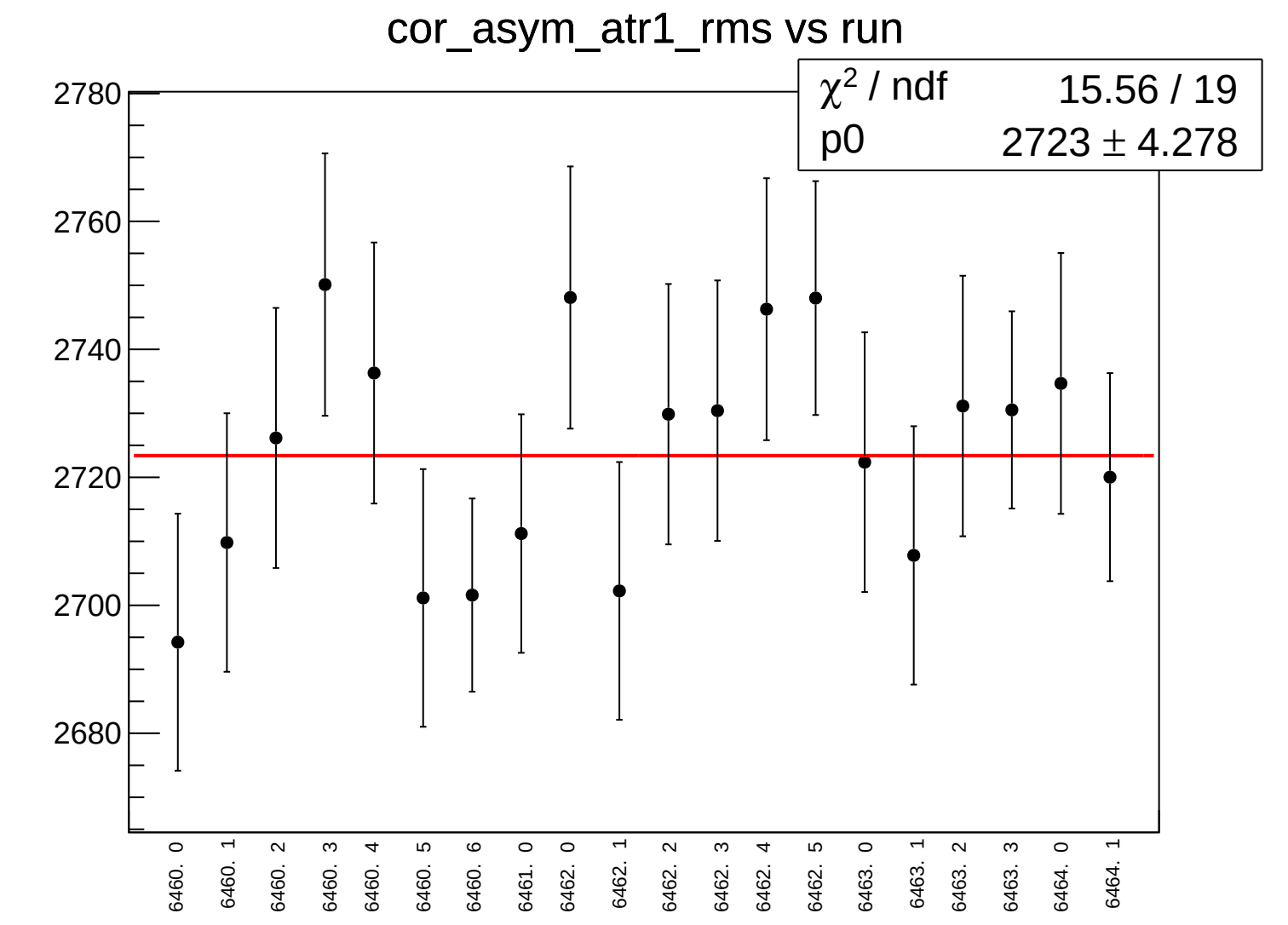

reg_asym_atr1_rms vs run
χ² / ndf 15.56 / 19
p0 2723 ± 4.278
2780
2760
2740
2720
2700
2680
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

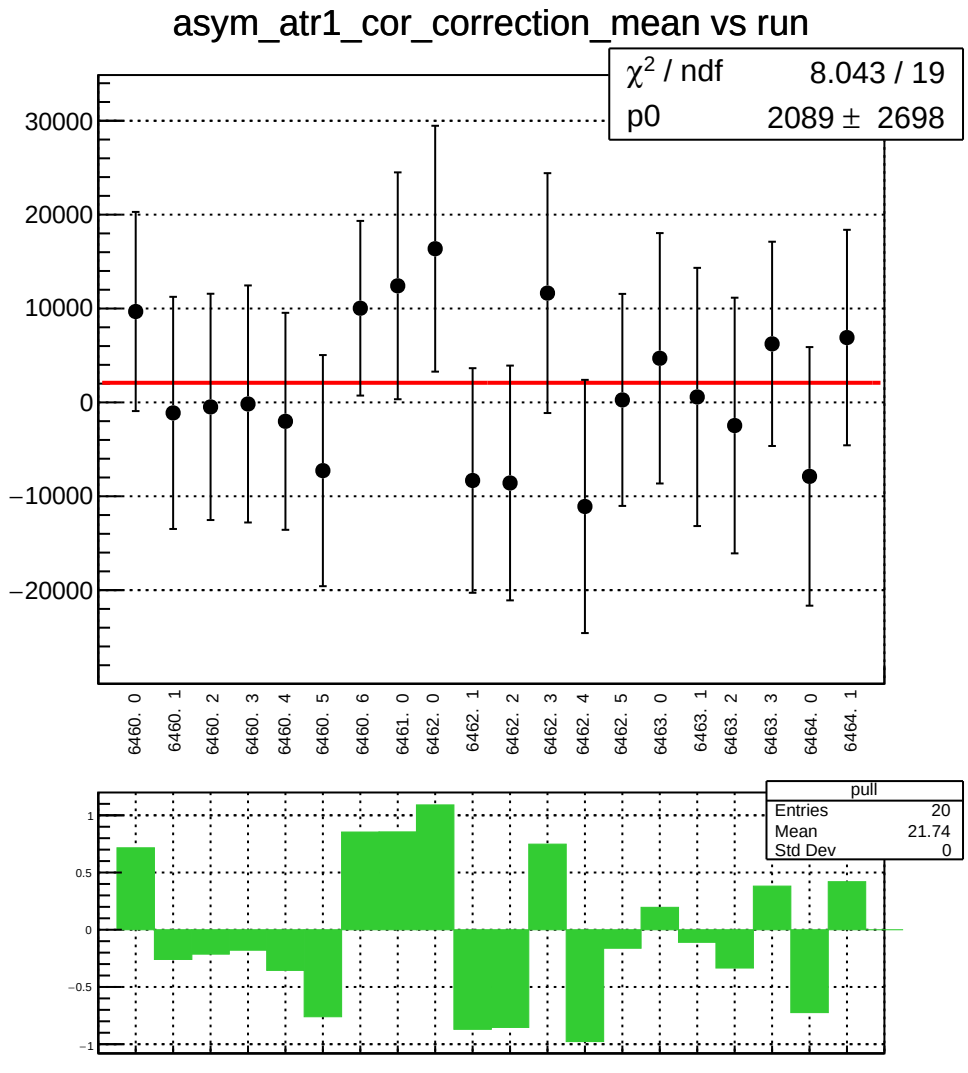

asym_atr1_reg_correction_mean vs run
χ² / ndf 8.04 / 19
p0 2088 ± 2698
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 21.75
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02686
Std Dev 0.6335
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

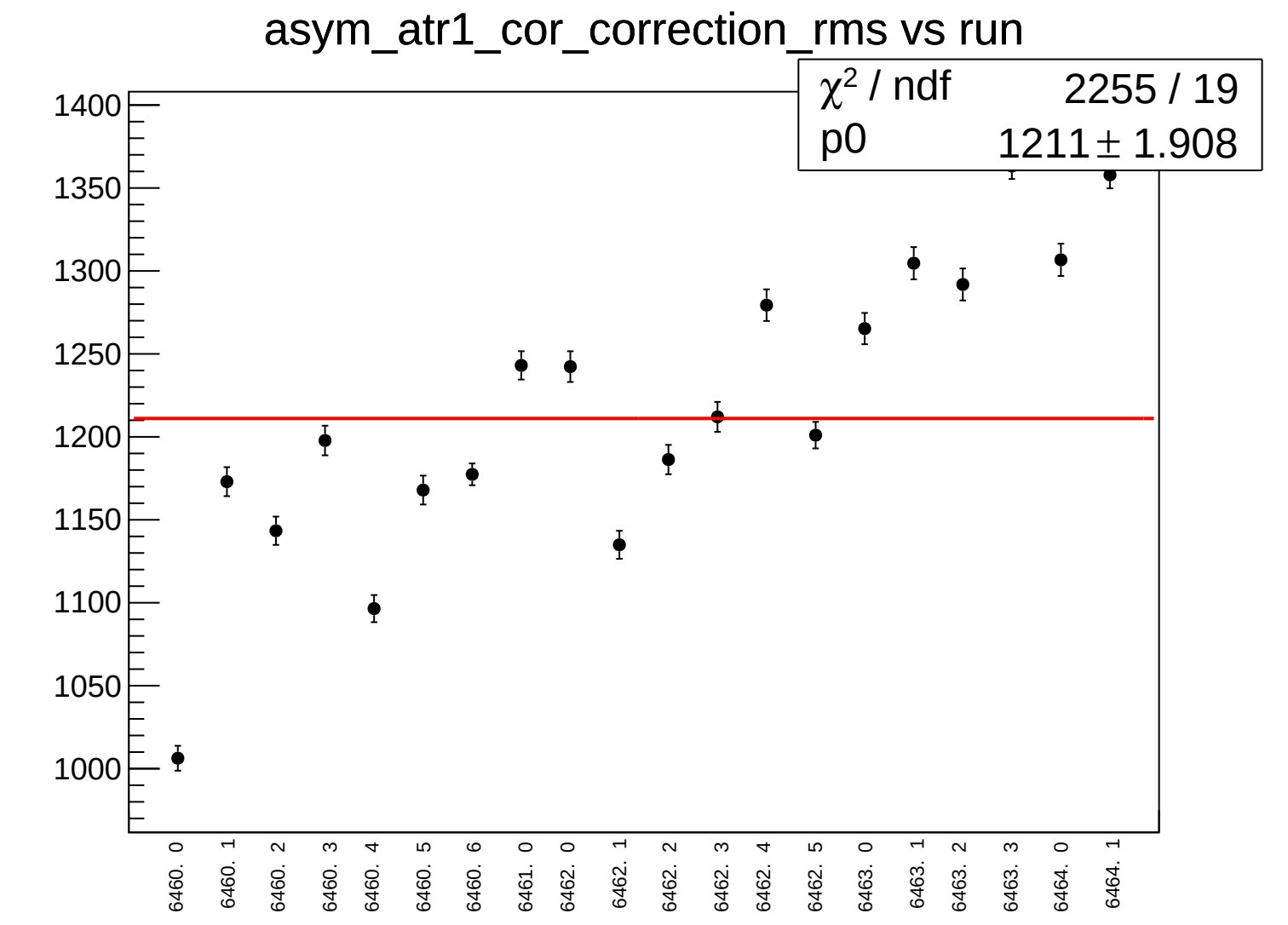

asym_atr1_reg_correction_rms vs run
χ² / ndf 2255 / 19
p0 1211 ± 1.908
1400
1350
1300
1250
1200
1150
1100
1050
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

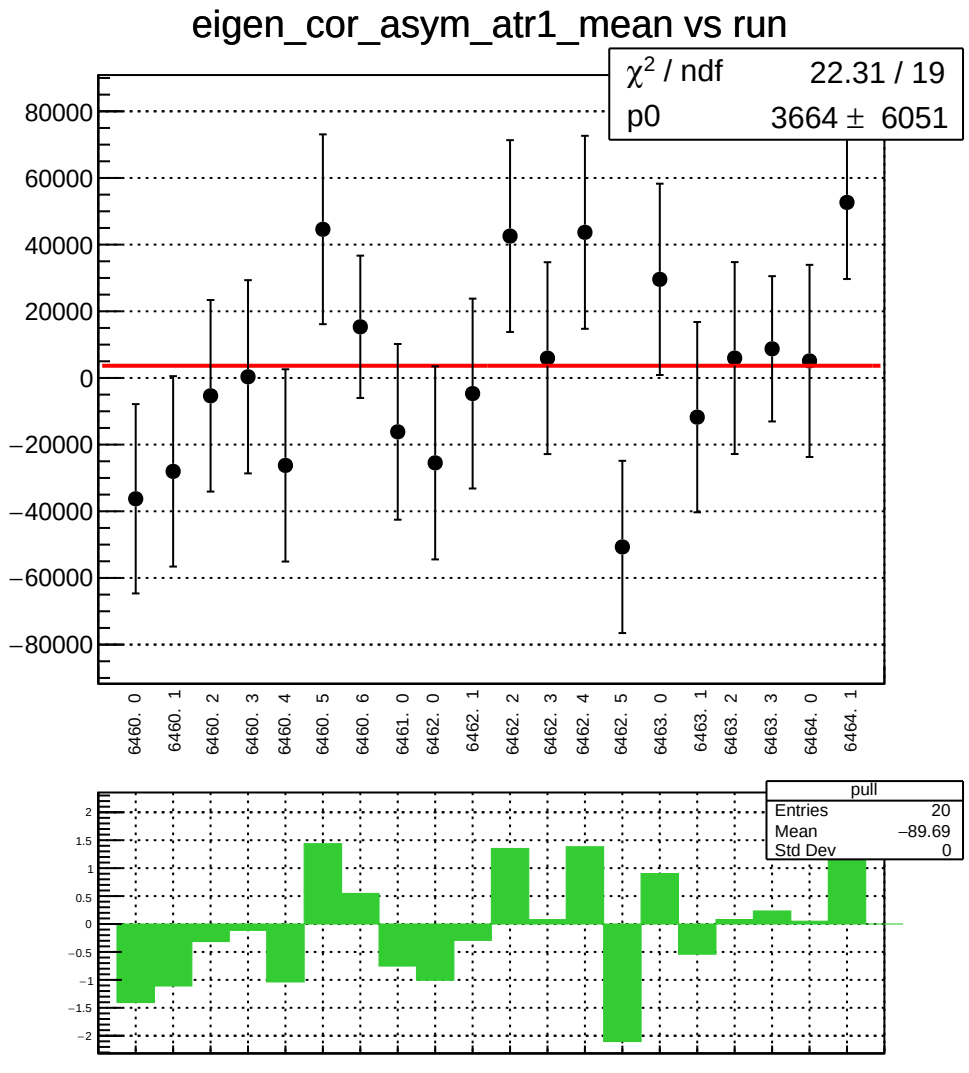

cor_asym_atr1_mean vs run
χ² / ndf 22.31 / 19
p0 3664 ± 6051
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −89.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

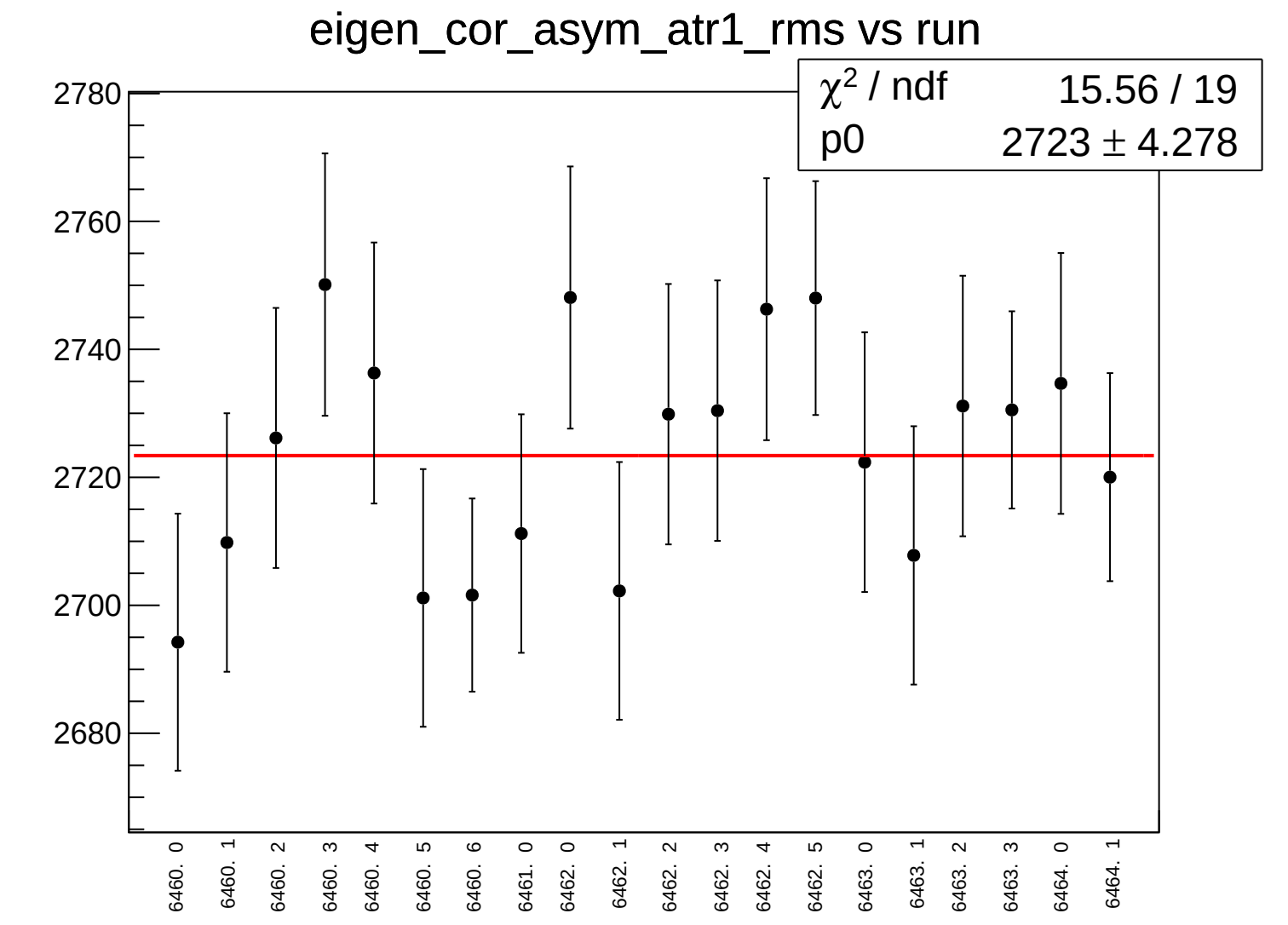

pull1D
Entries 20
Mean −0.0239
Std Dev 1.056
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

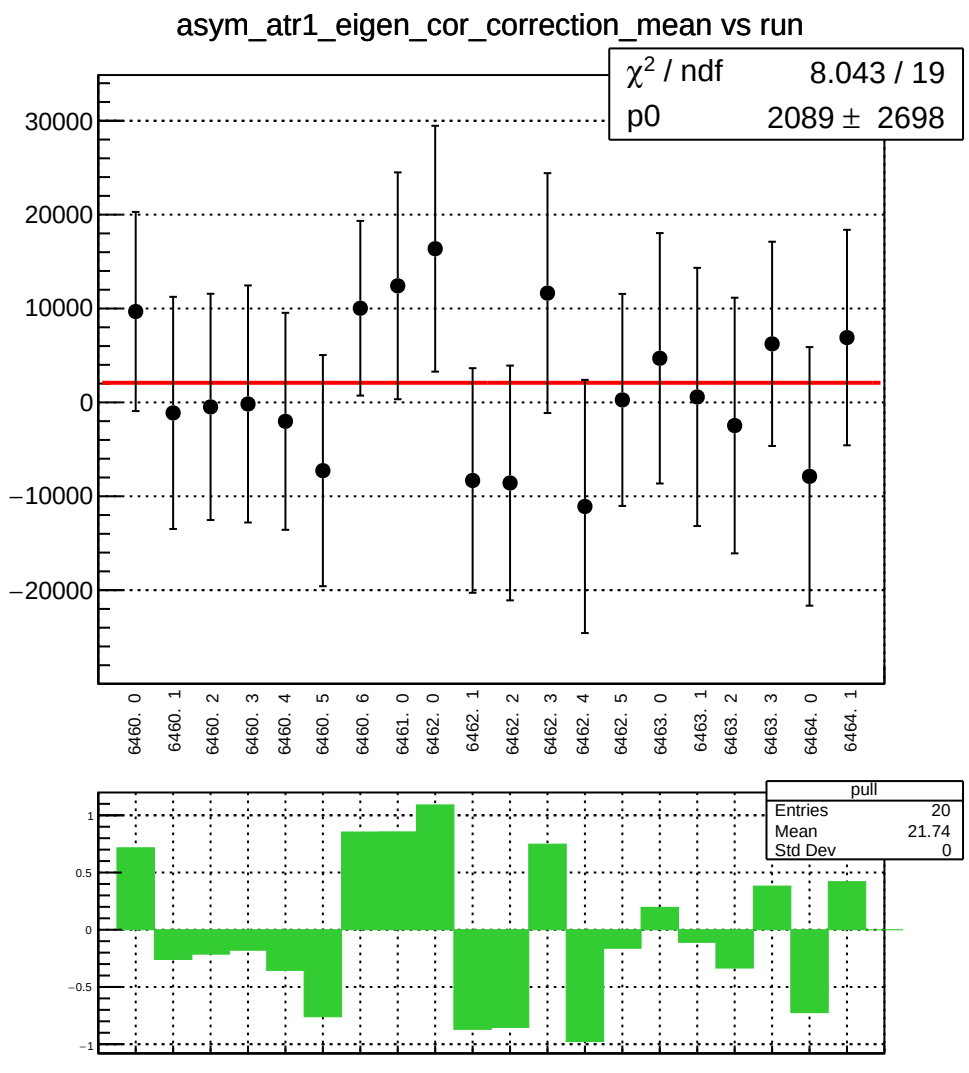

cor_asym_atr1_rms vs run
χ² / ndf 15.56 / 19
p0 2723 ± 4.278
2780
2760
2740
2720
2700
2680
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

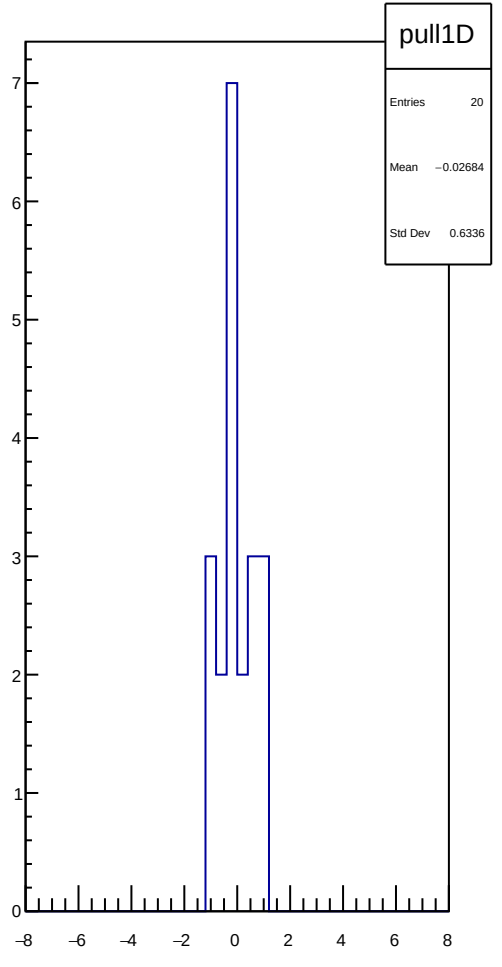

asym_atr1_cor_correction_mean vs run
χ² / ndf 8.043 / 19
p0 2089 ± 2698
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 21.74
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02684
Std Dev 0.6336
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

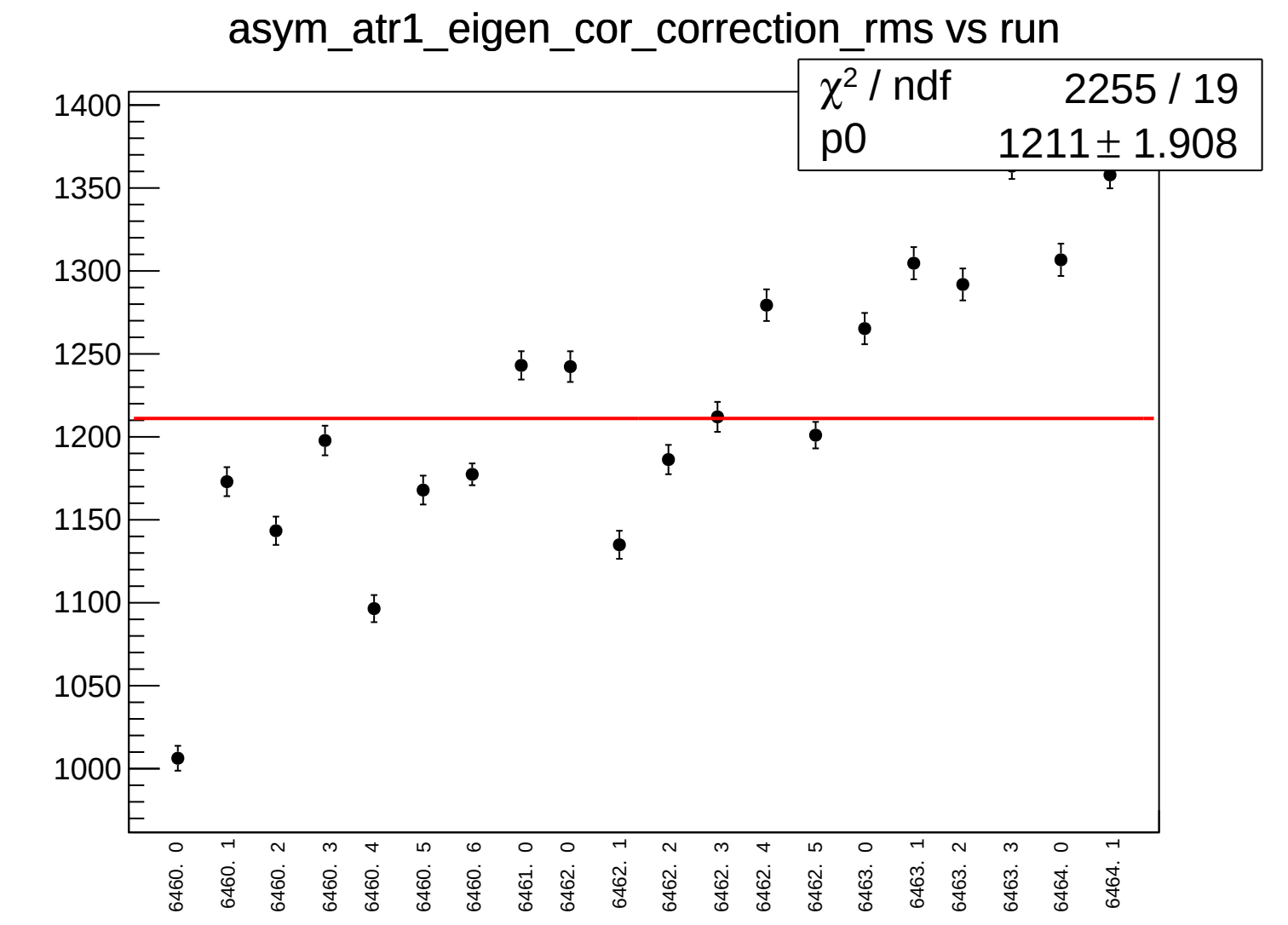

asym_atr1_cor_correction_rms vs run
χ² / ndf 2255 / 19
p0 1211 ± 1.908
1400
1350
1300
1250
1200
1150
1100
1050
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

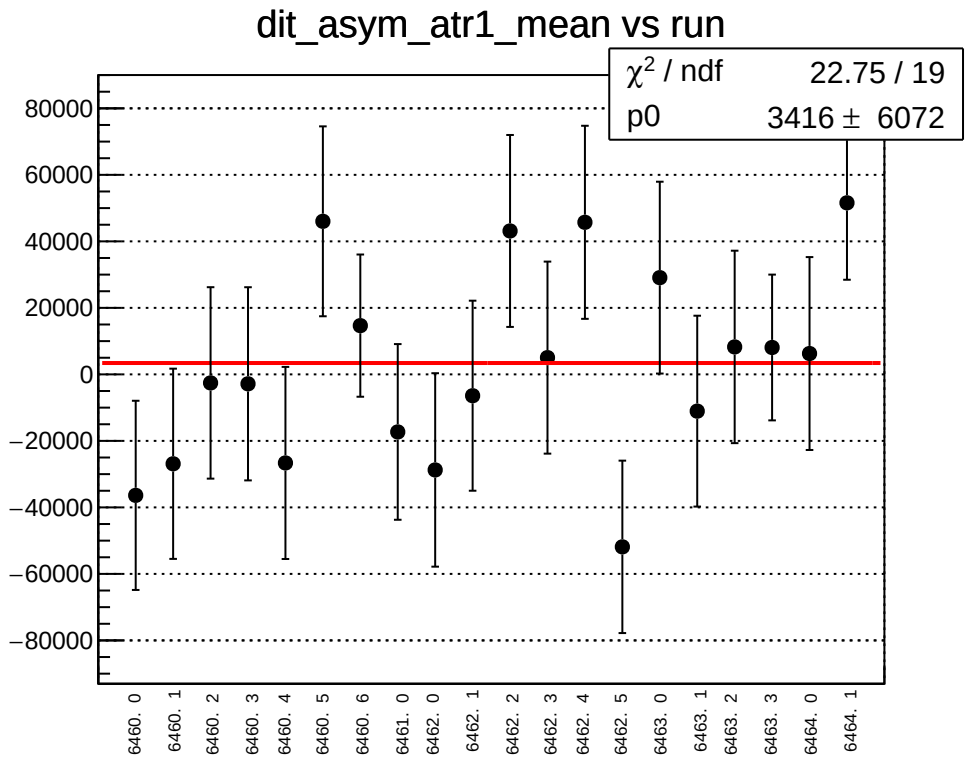

eigen_cor_asym_atr1_mean vs run
χ² / ndf 22.31 / 19
p0 3664 ± 6051
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −89.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.0239
Std Dev 1.056
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

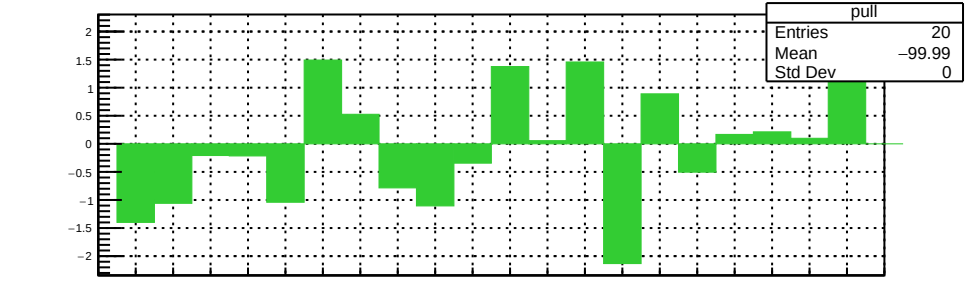

eigen_cor_asym_atr1_rms vs run
χ² / ndf 15.56 / 19
p0 2723 ± 4.278
2780
2760
2740
2720
2700
2680
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

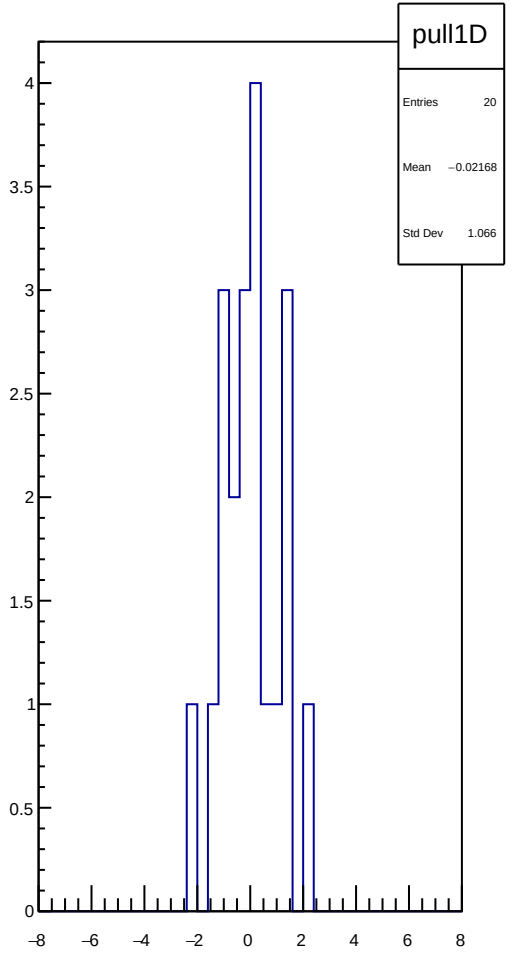

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 8.043 / 19
p0 2089 ± 2698
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 21.74
Std Dev 0
1
0.5
0
−0.5
−1

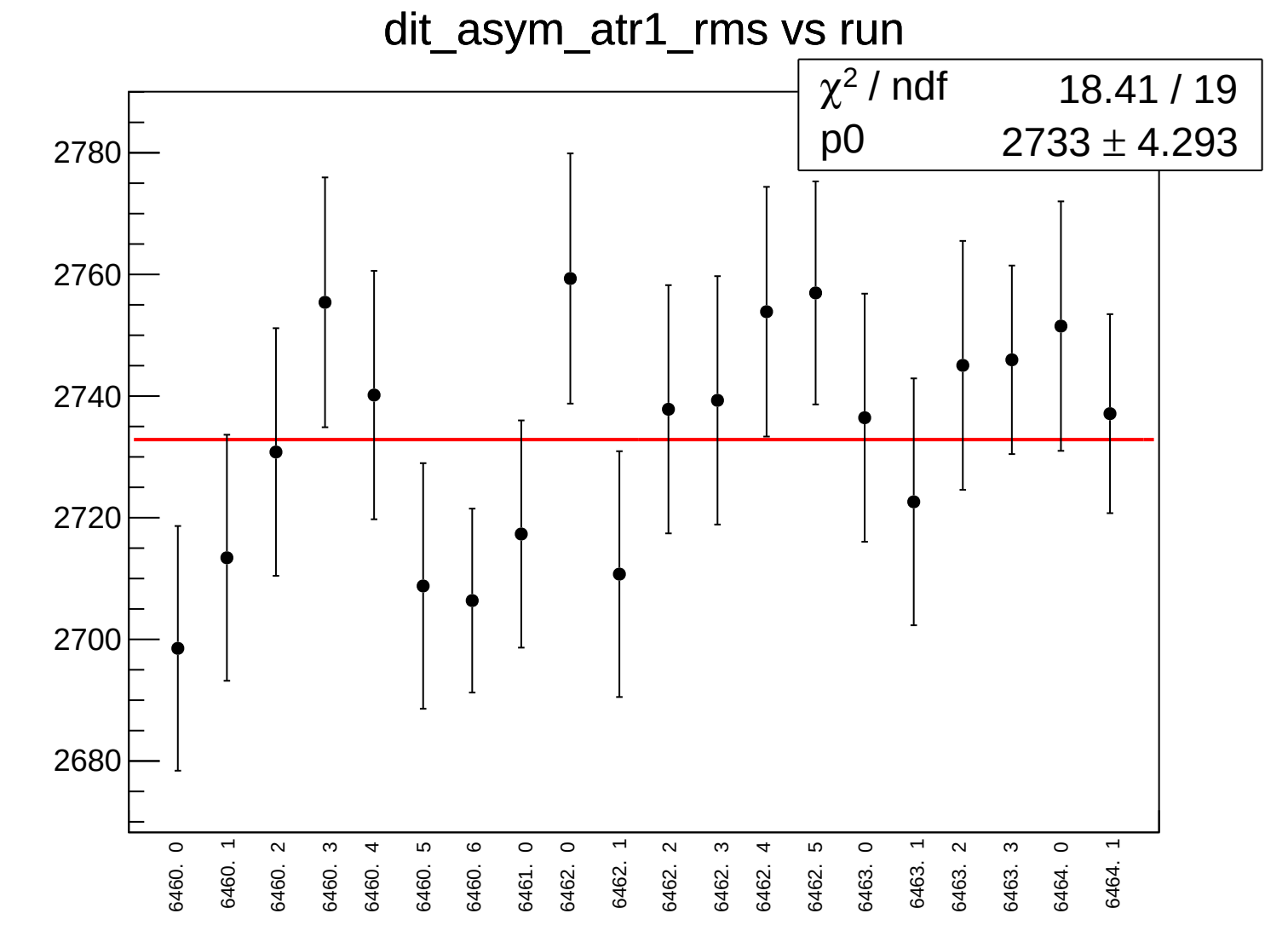

pull1D
Entries 20
Mean −0.02684
Std Dev 0.6336
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

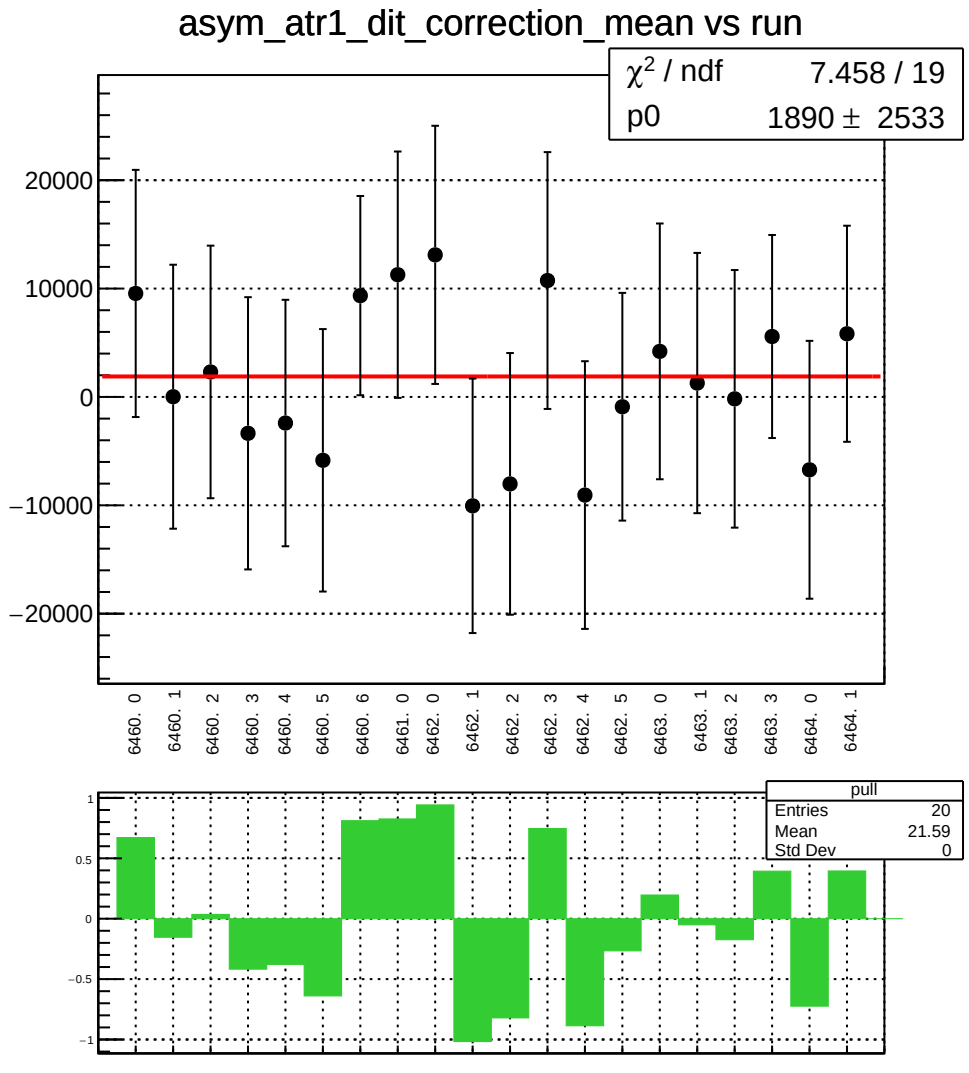

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2255 / 19
p0 1211 ± 1.908
1400
1350
1300
1250
1200
1150
1100
1050
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

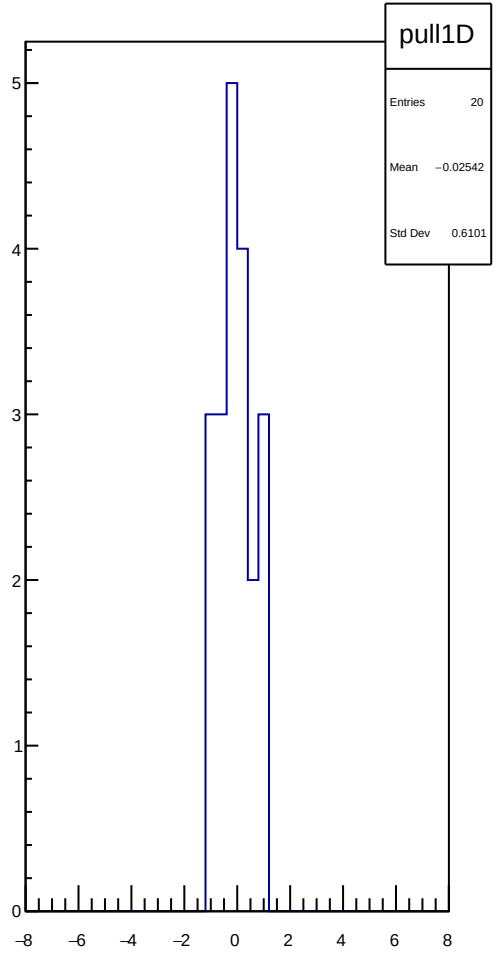

dit_asym_atr1_mean vs run
χ² / ndf 22.75 / 19
p0 3416 ± 6072
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

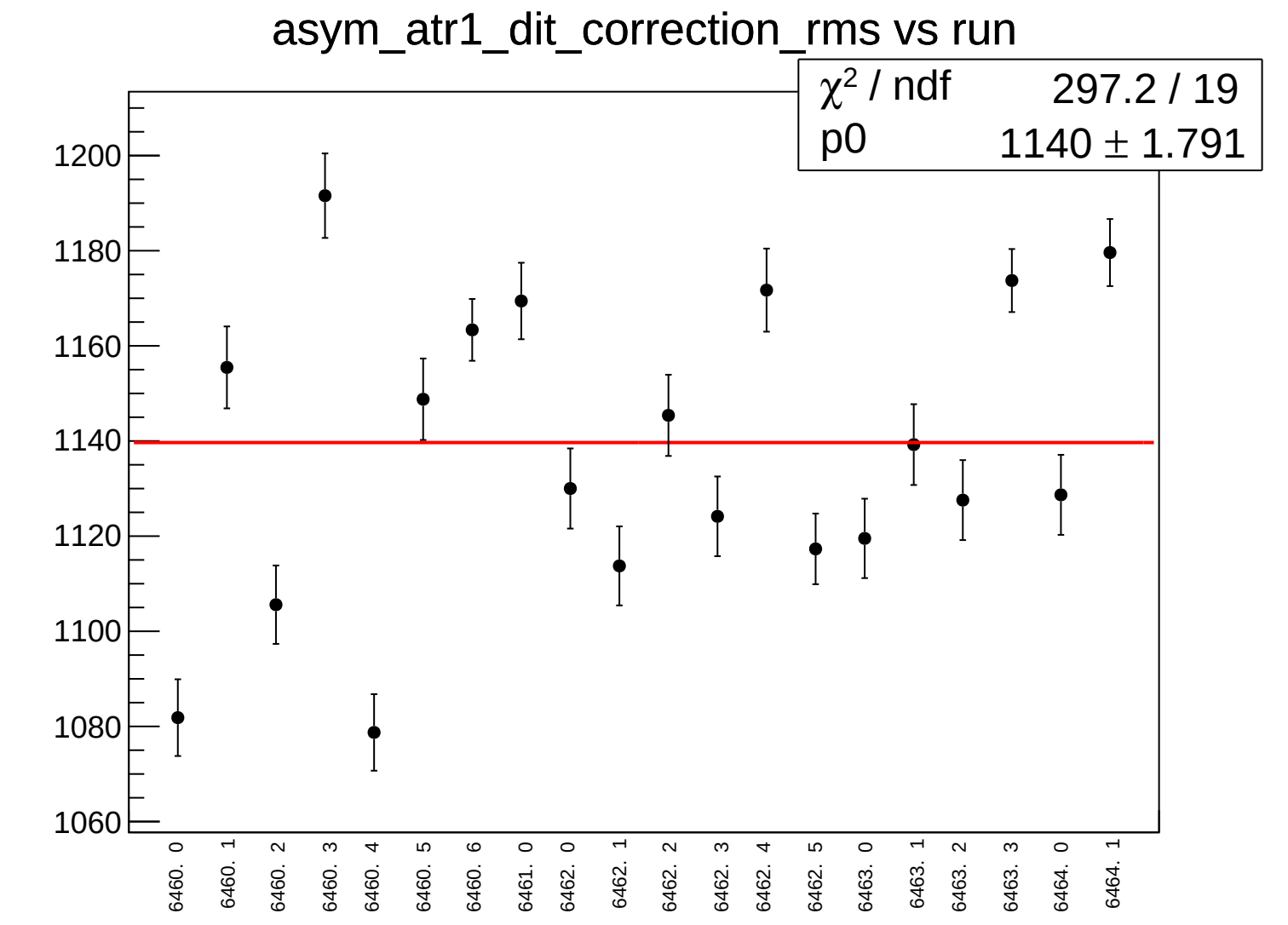

pull
Entries 20
Mean −99.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

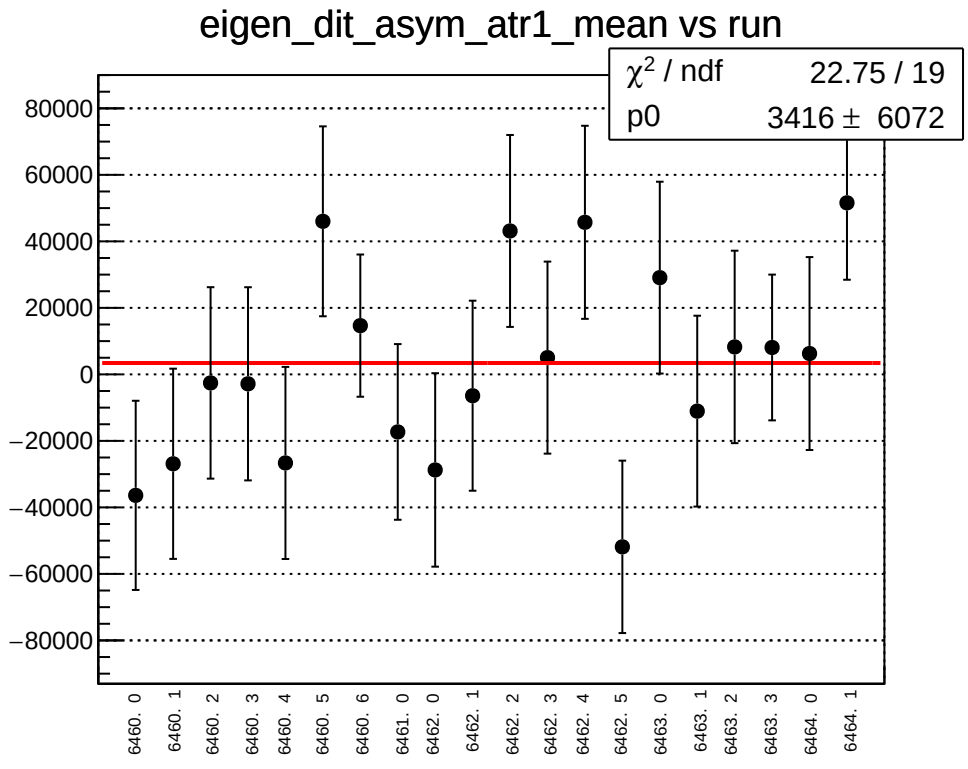

pull1D
Entries 20
Mean −0.02168
Std Dev 1.066
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

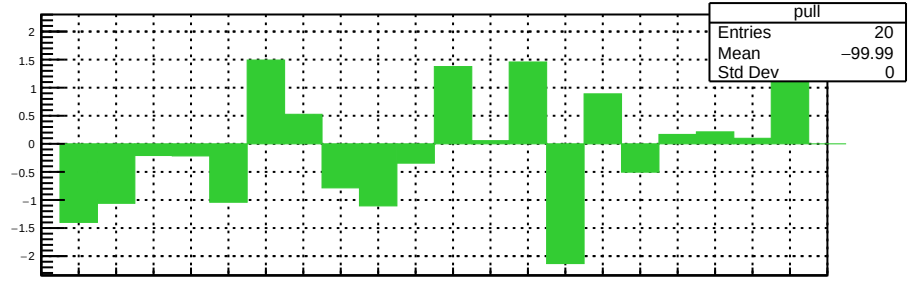

dit_asym_atr1_rms vs run
χ² / ndf 18.41 / 19
p0 2733 ± 4.293
2780
2760
2740
2720
2700
2680
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

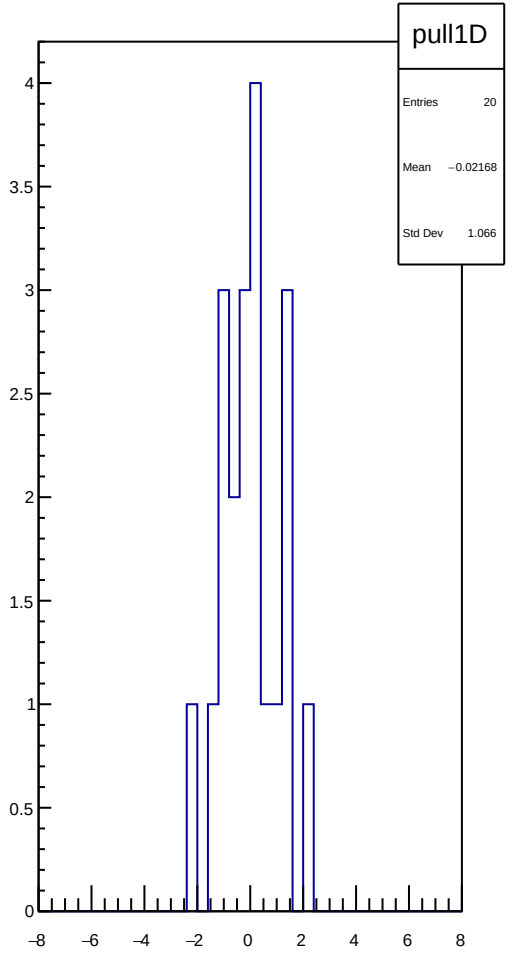

asym_atr1_dit_correction_mean vs run
χ² / ndf 7.458 / 19
p0 1890 ± 2533
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 21.59
Std Dev 0
1
0.5
0
−0.5
−1

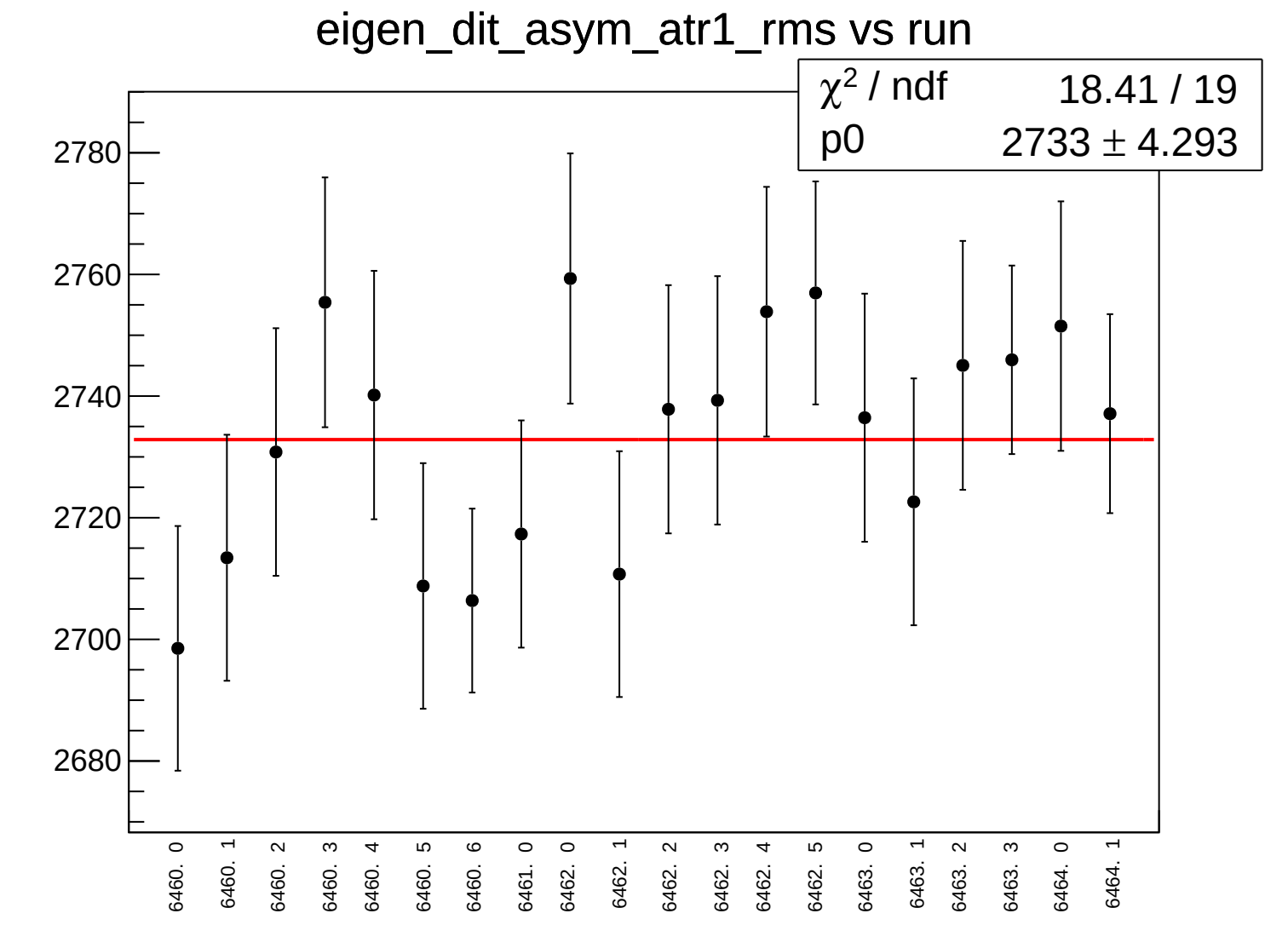

pull1D
Entries 20
Mean −0.02542
Std Dev 0.6101
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

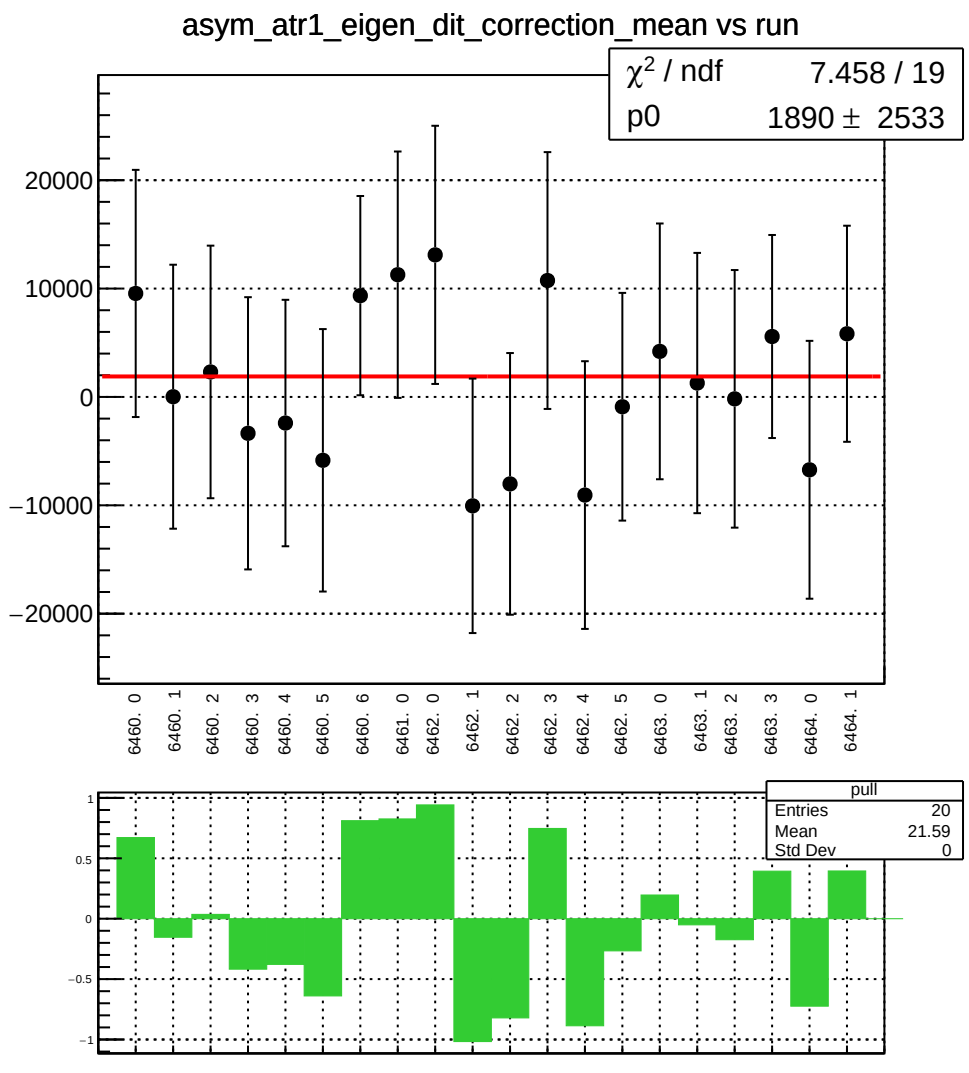

asym_atr1_dit_correction_rms vs run
χ² / ndf 297.2 / 19
p0 1140 ± 1.791
1200
1180
1160
1140
1120
1100
1080
1060
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

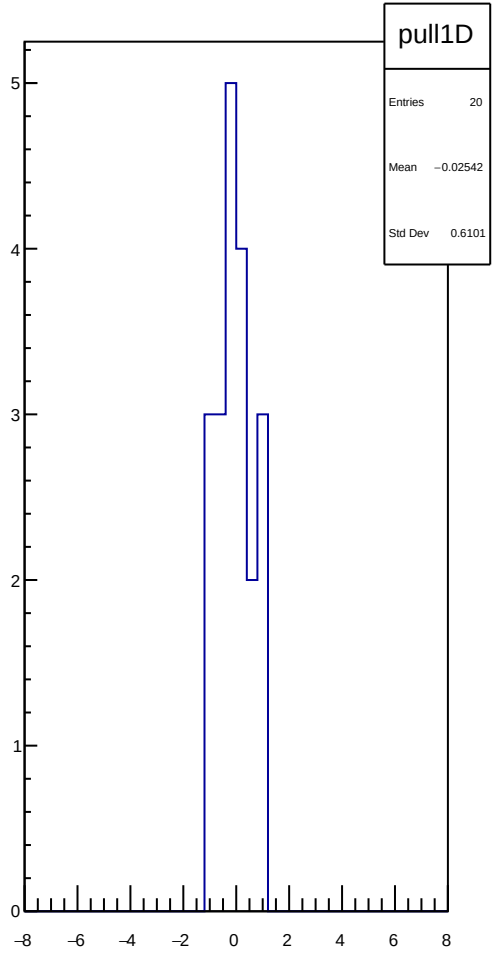

eigen_dit_asym_atr1_mean vs run
χ² / ndf 22.75 / 19
p0 3416 ± 6072
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

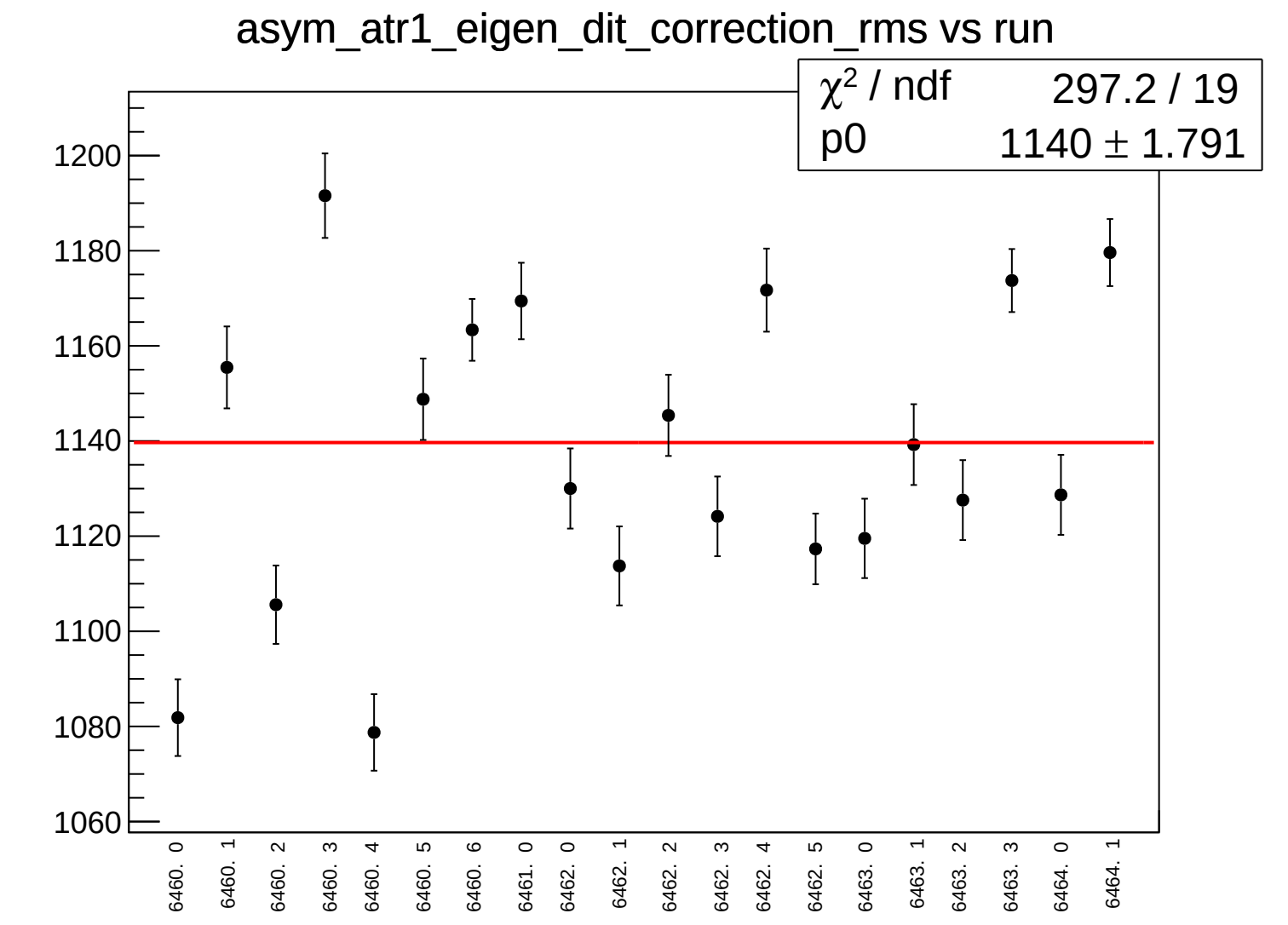

pull
Entries 20
Mean −99.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

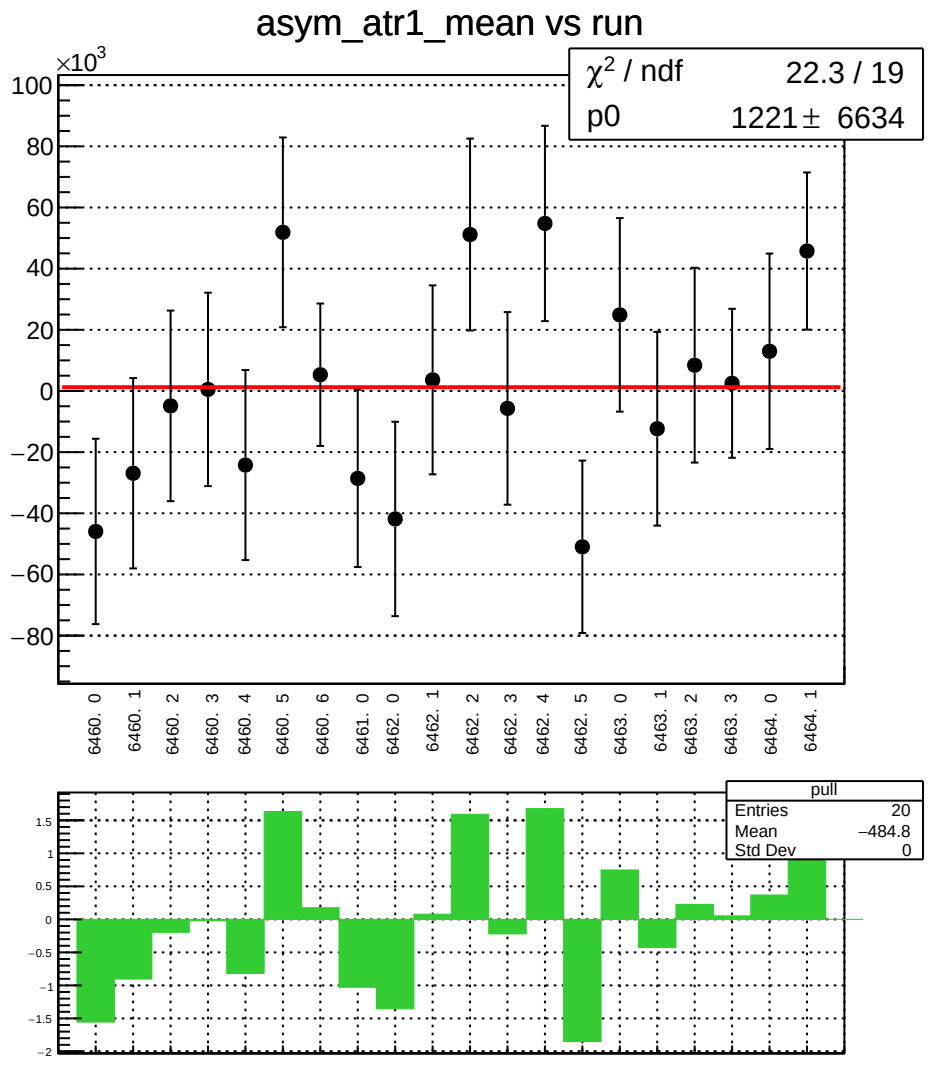

pull1D
Entries 20
Mean −0.02168
Std Dev 1.066
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

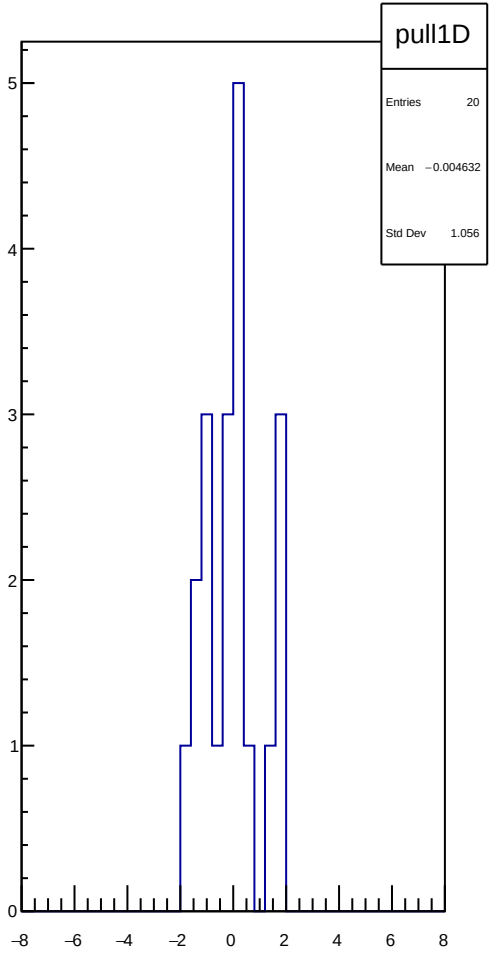

eigen_dit_asym_atr1_rms vs run
χ² / ndf 18.41 / 19
p0 2733 ± 4.293
2780
2760
2740
2720
2700
2680
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

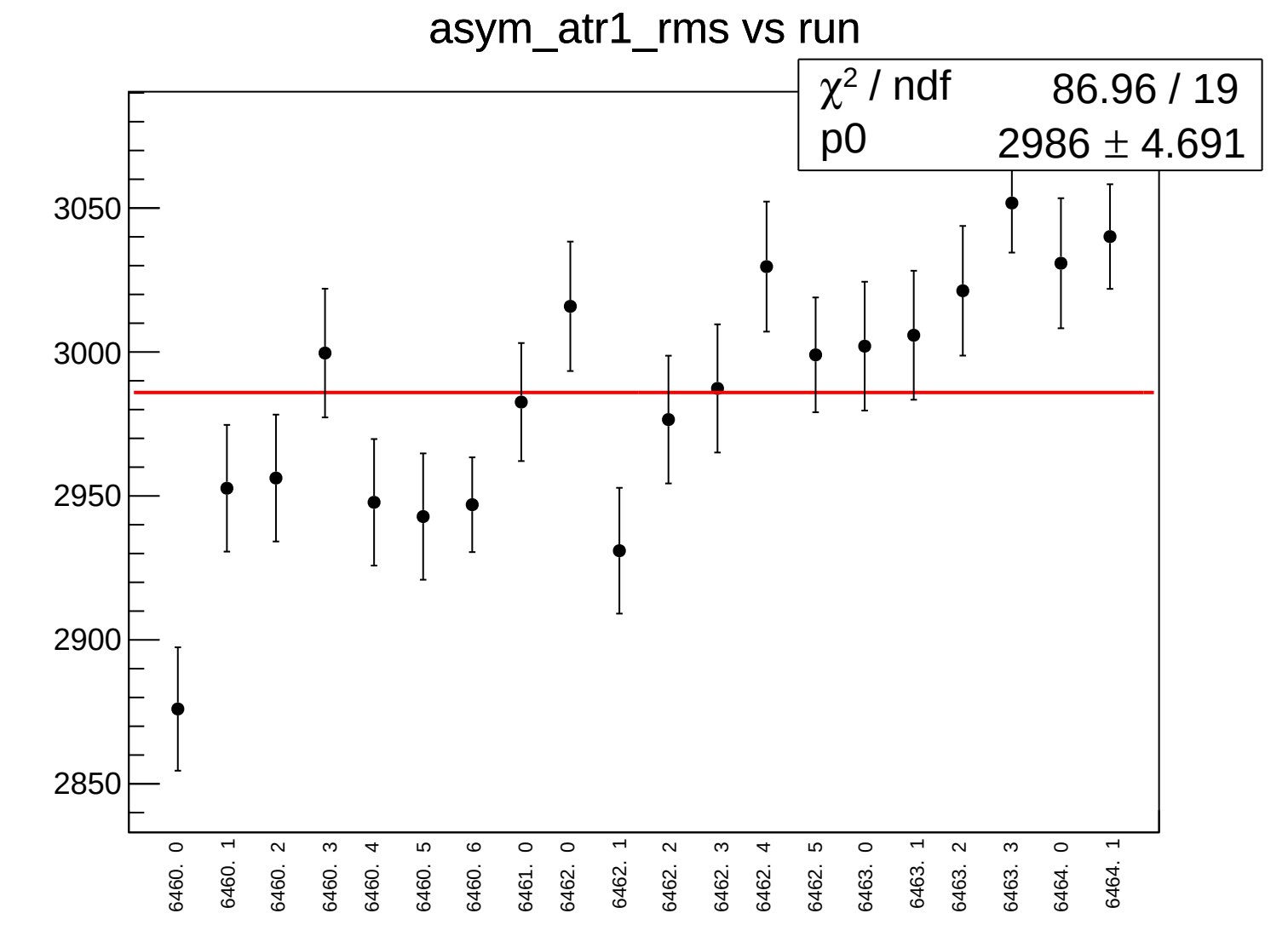

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 7.458 / 19
p0 1890 ± 2533
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 21.59
Std Dev 0
1
0.5
0
−0.5
−1

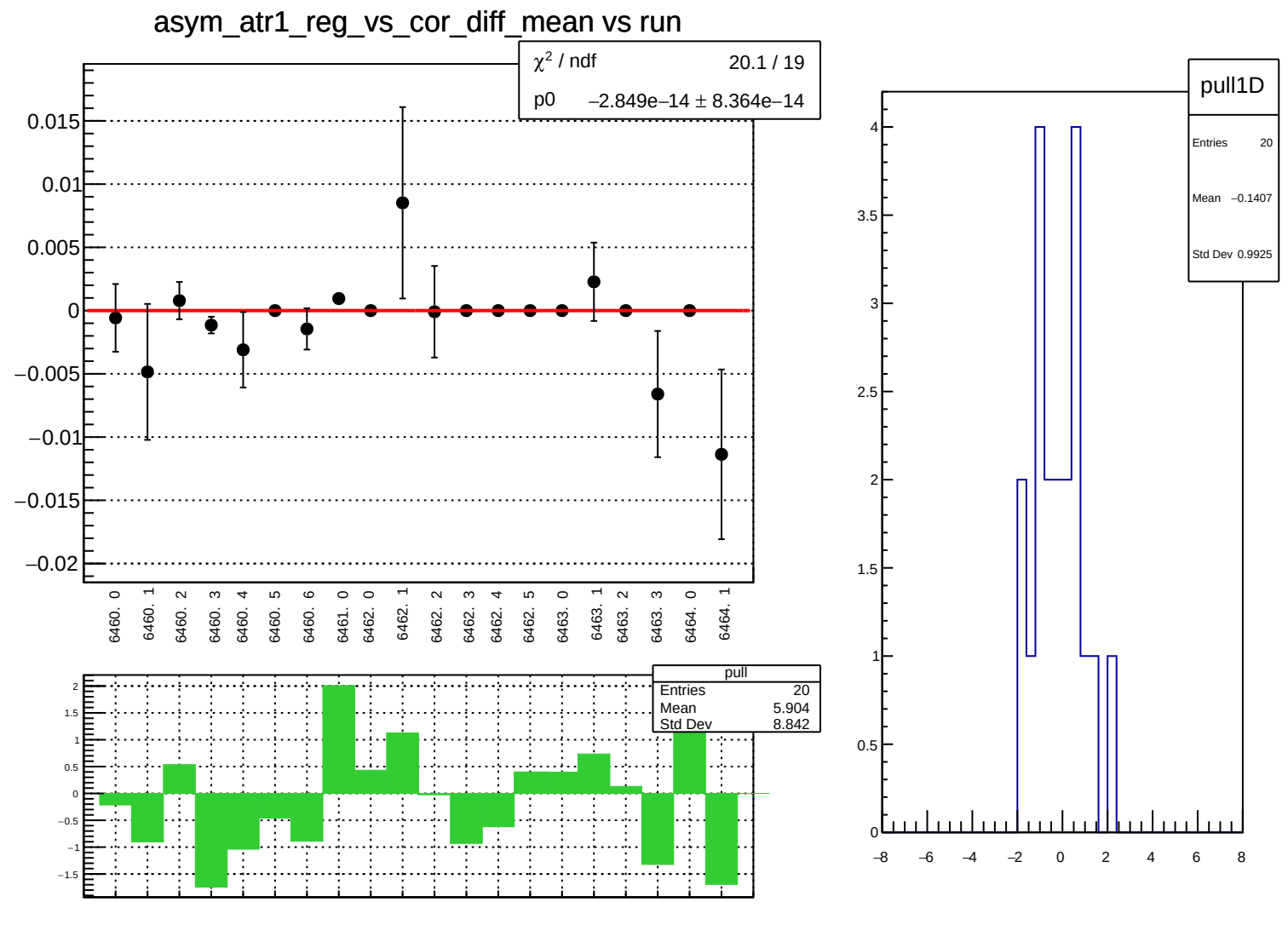

pull1D
Entries 20
Mean −0.02542
Std Dev 0.6101
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

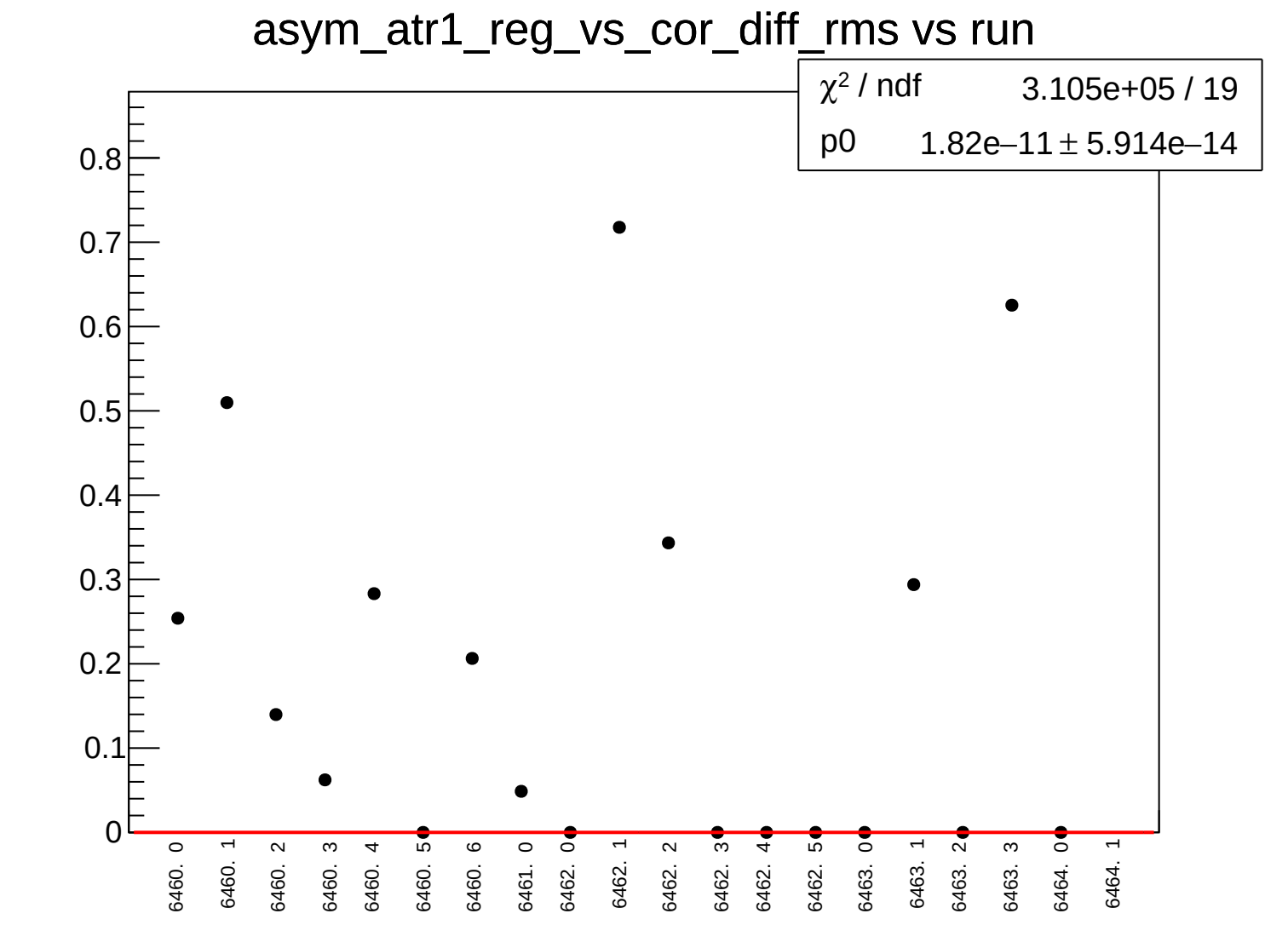

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 297.2 / 19
p0 1140 ± 1.791
1200
1180
1160
1140
1120
1100
1080
1060
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

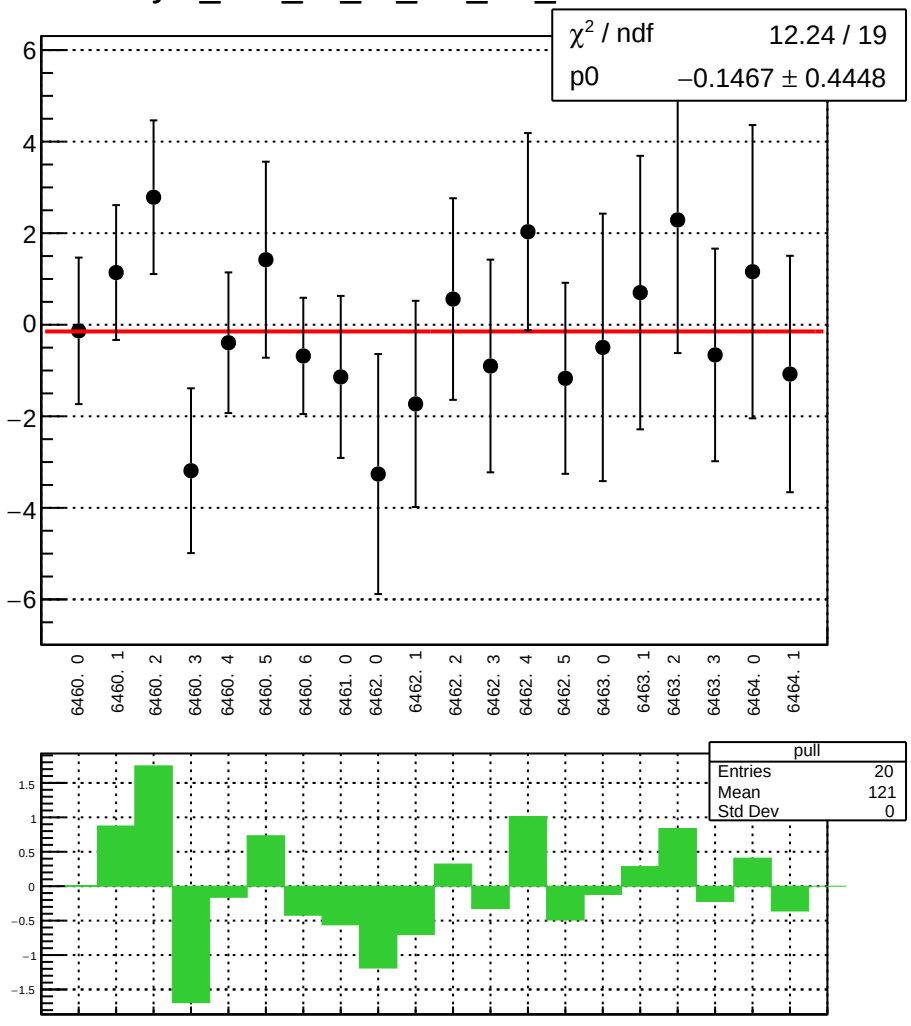

asym_atr1_mean vs run
×10^3
χ² / ndf 22.3 / 19
p0 1221 ± 6634
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −484.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

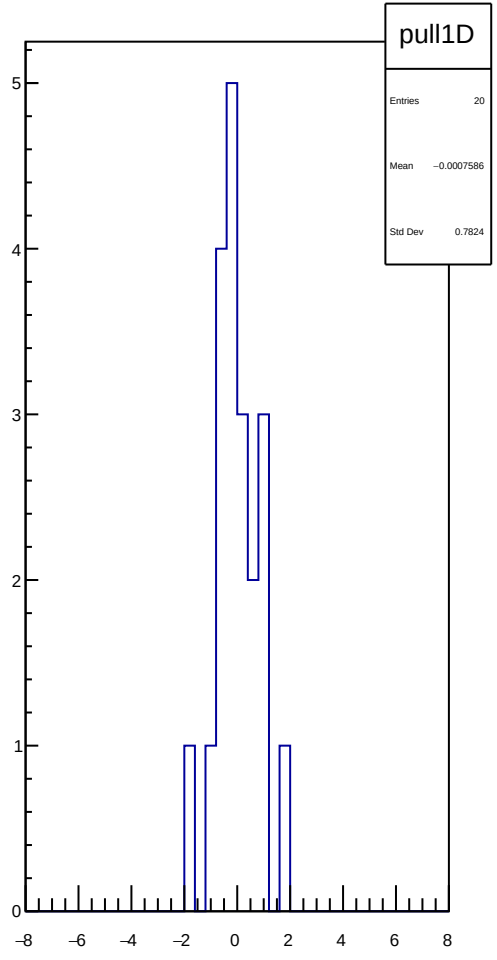

pull1D
Entries 20
Mean −0.004632
Std Dev 1.056
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

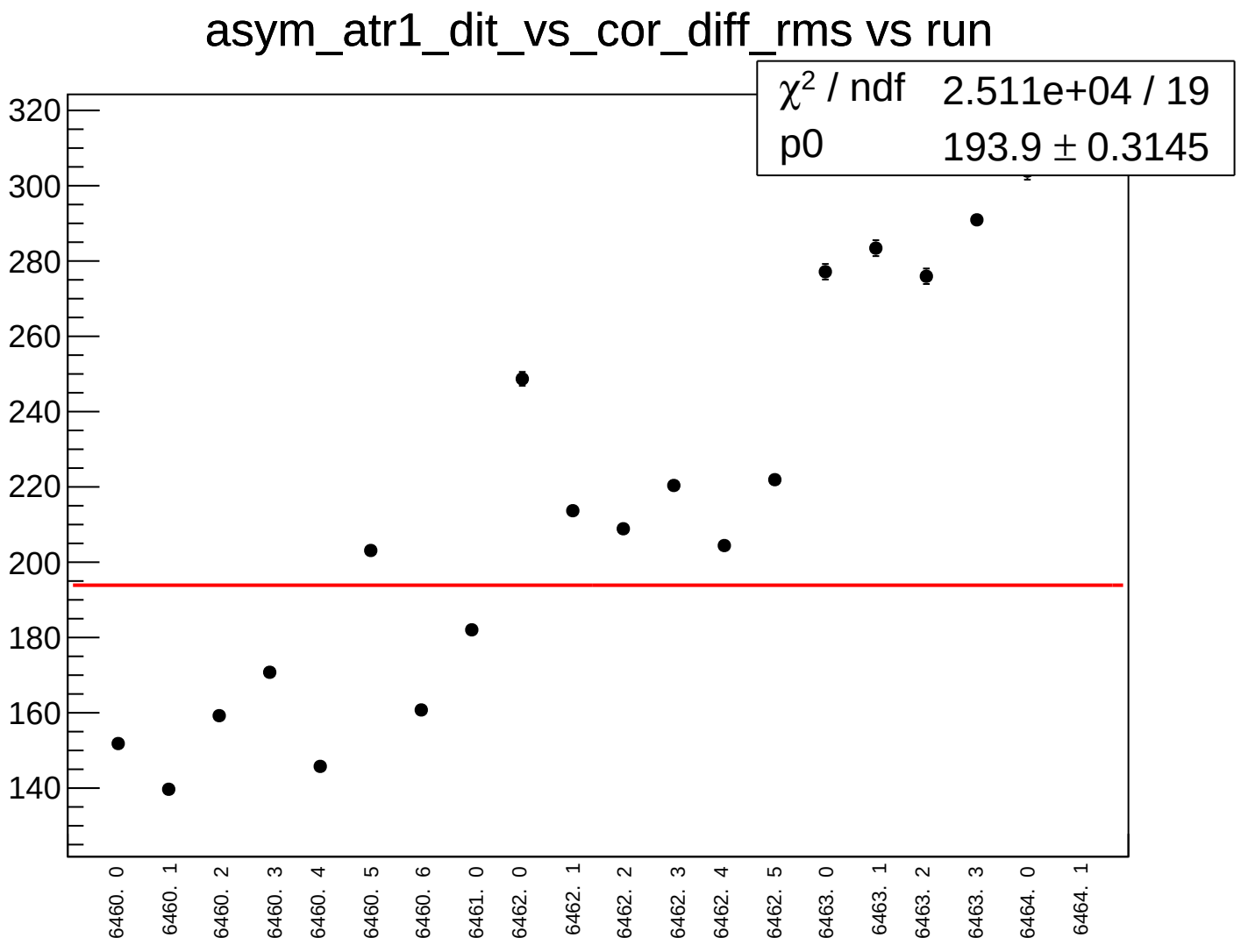

asym_atr1_rms vs run
χ² / ndf 86.96 / 19
p0 2986 ± 4.691
3050
3000
2950
2900
2850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 20.1 / 19
p0 −2.849e−14 ± 8.364e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.904
Std Dev 8.842
pull1D
Entries 20
Mean −0.1407
Std Dev 0.9925

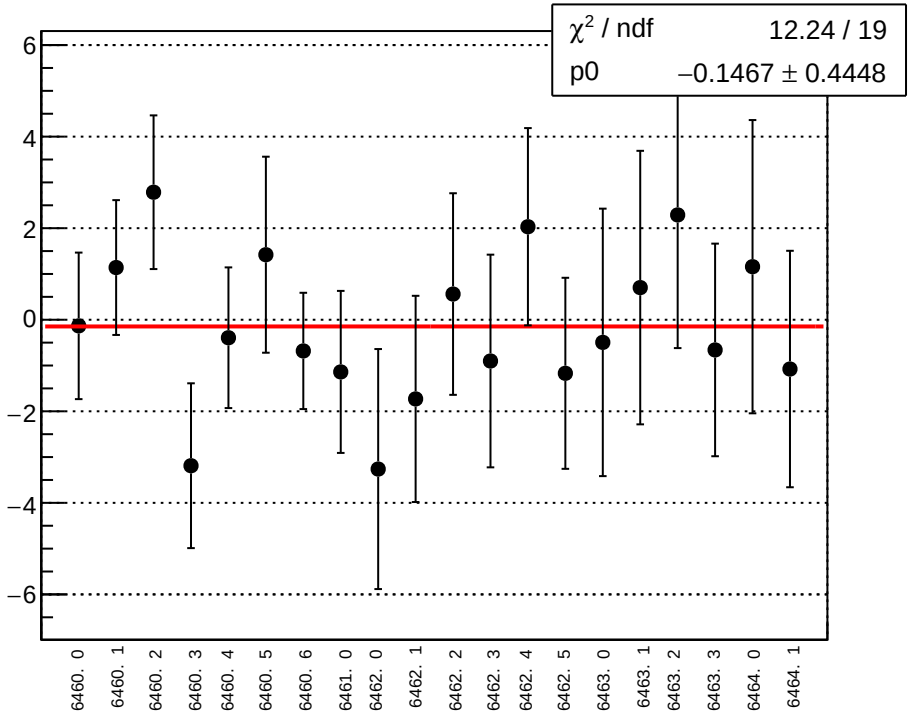

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 3.105e+05 / 19
p0 1.82e−11 ± 5.914e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

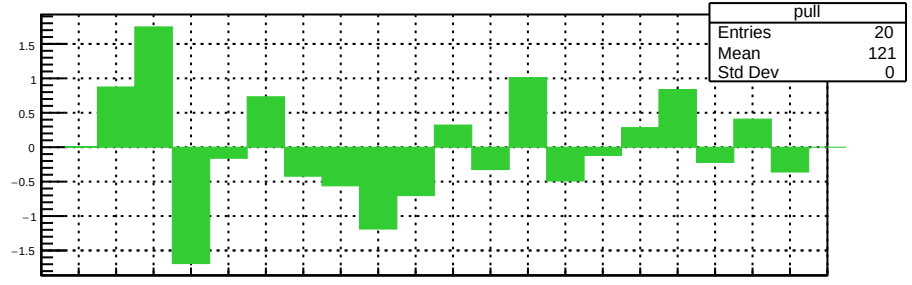

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 12.24 / 19
p0 −0.1467 ± 0.4448
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 121
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

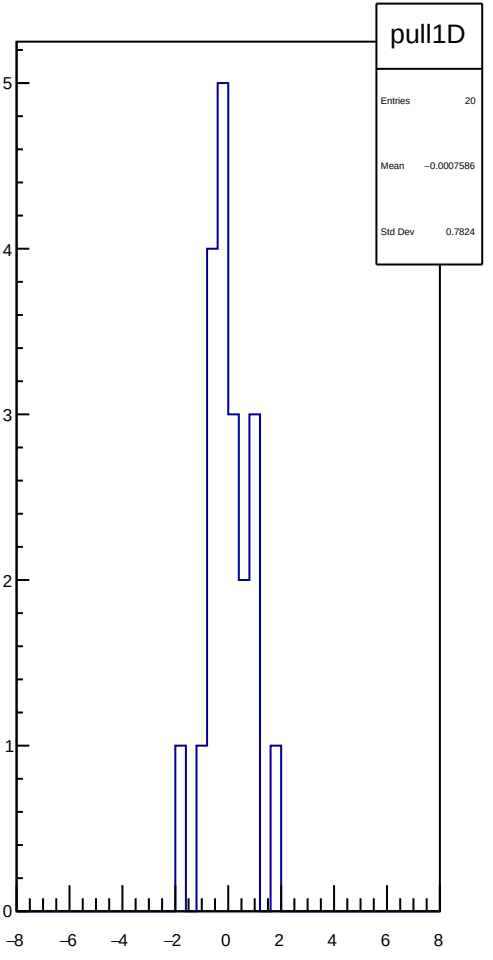

pull1D
Entries 20
Mean −0.0007586
Std Dev 0.7824
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

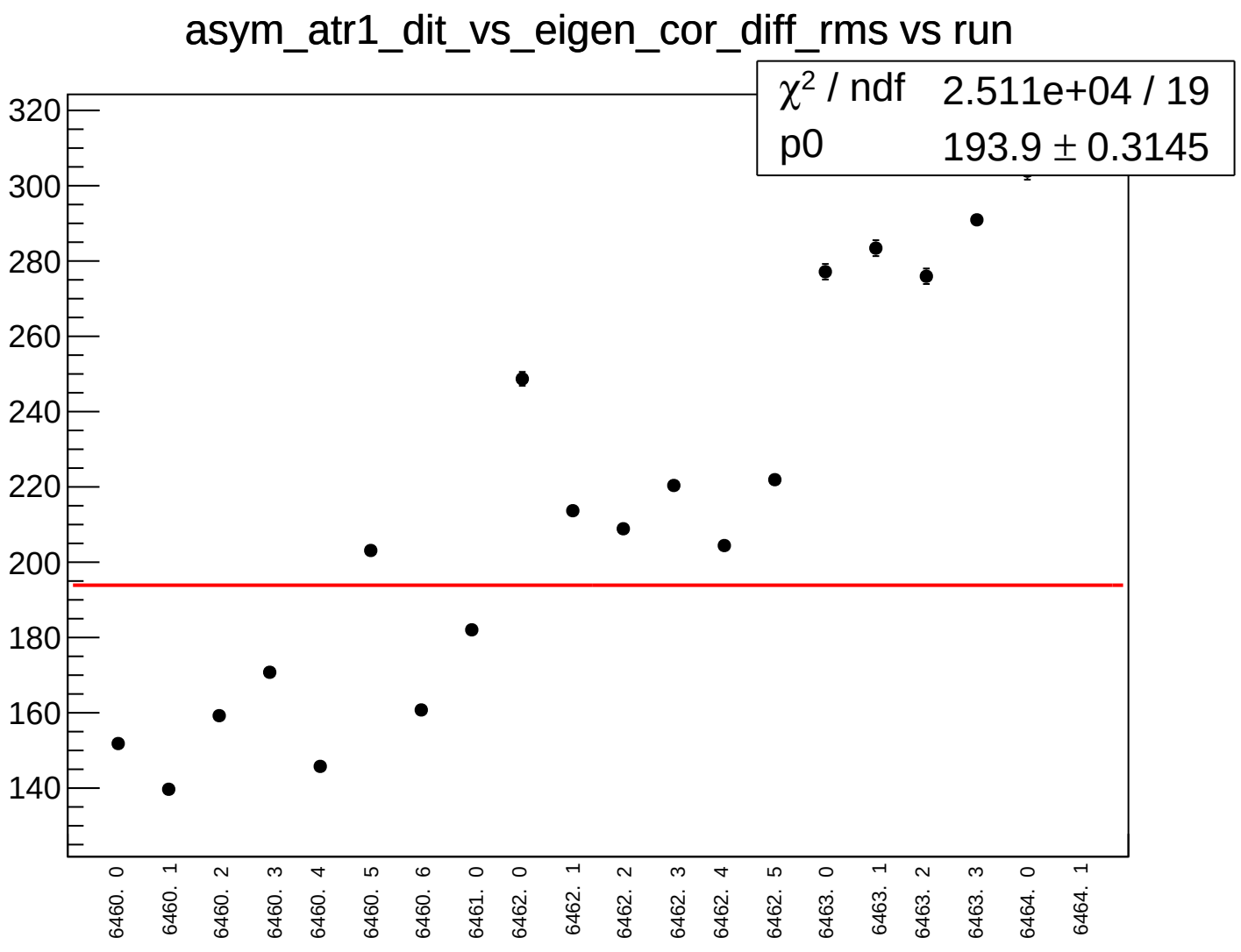

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.511e+04 / 19
p0 193.9 ± 0.3145
320
300
280
260
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

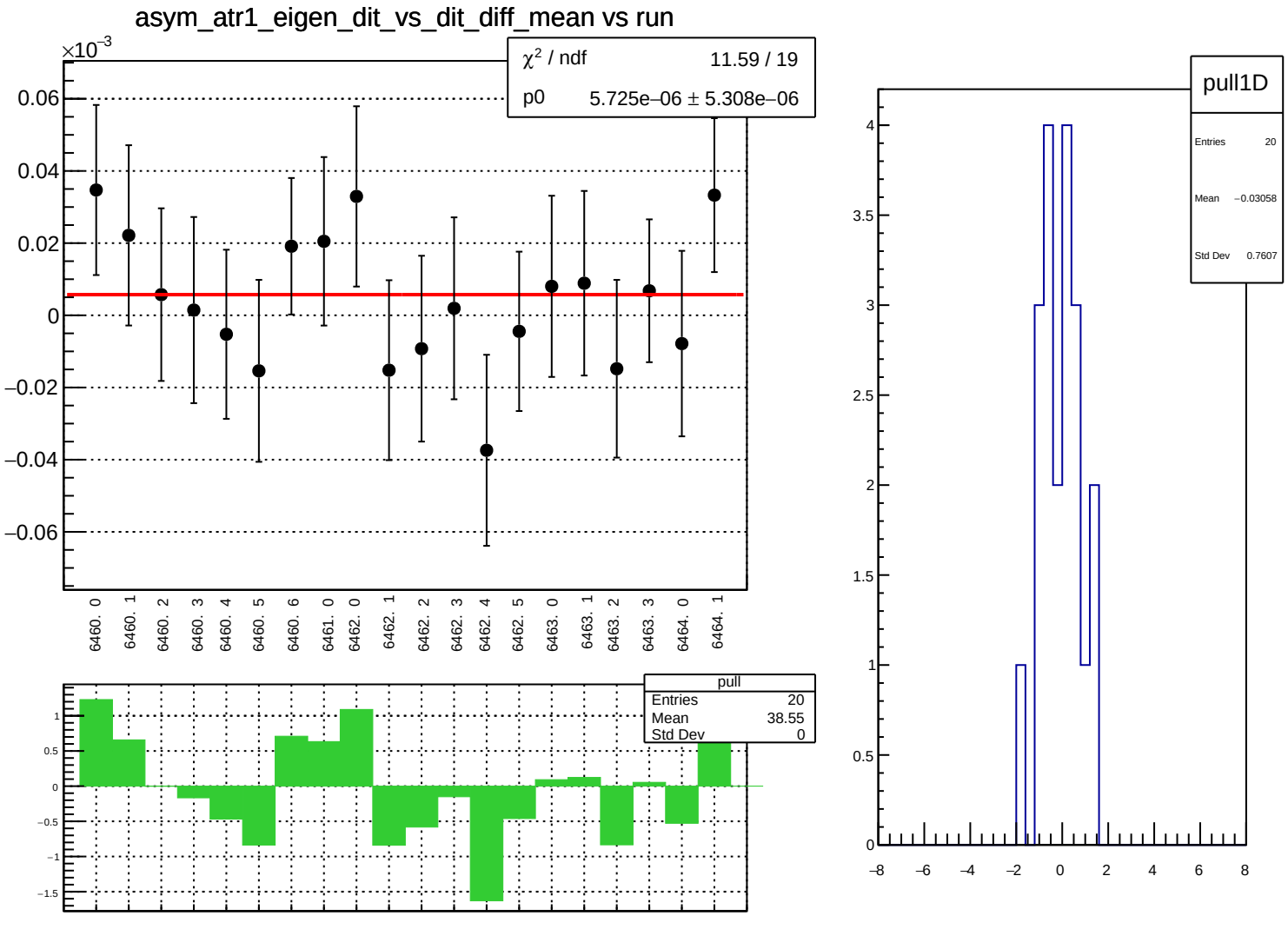
asym_atr1_dit_vs_eigen_cor_diff_mean vs run

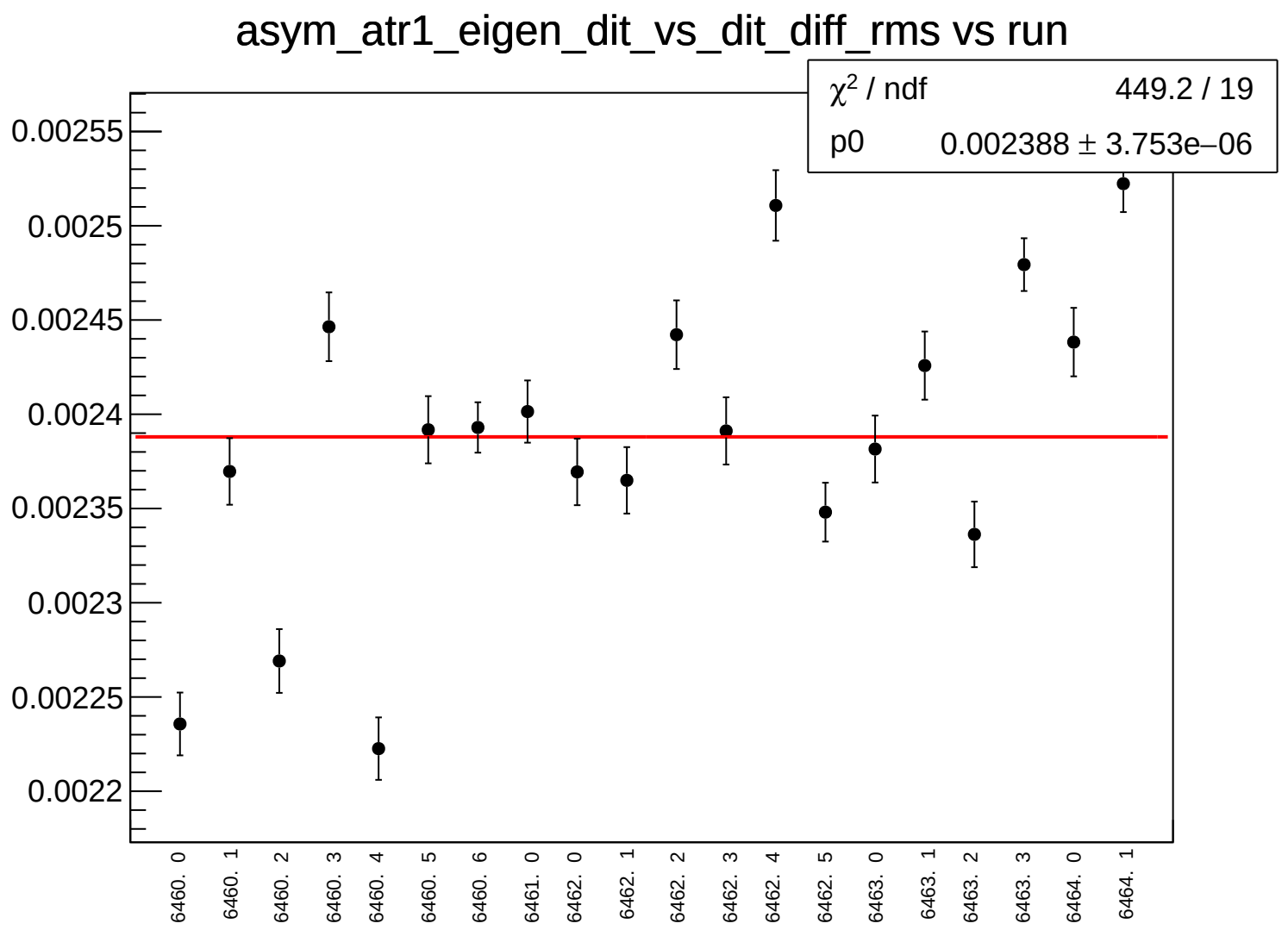


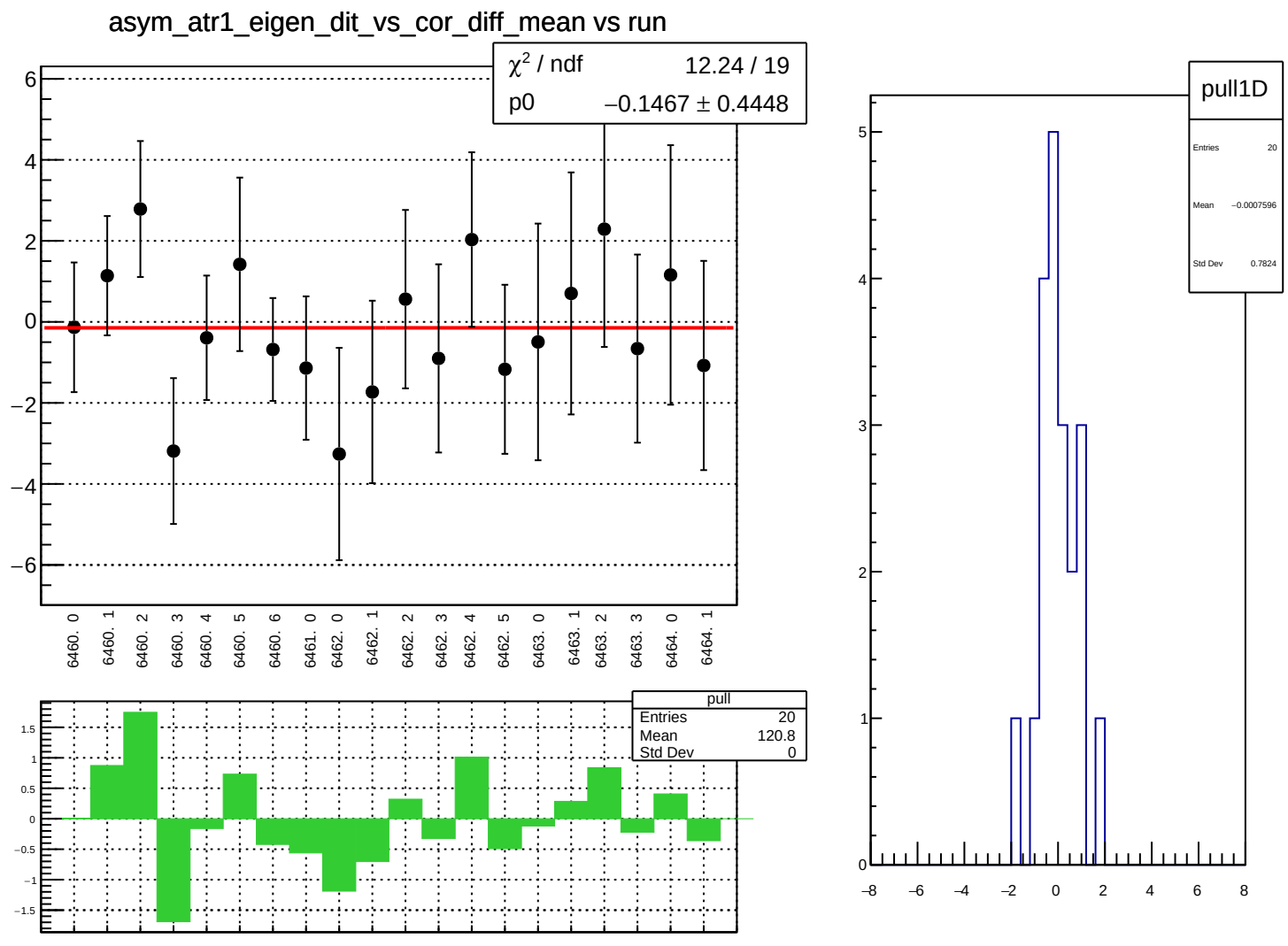


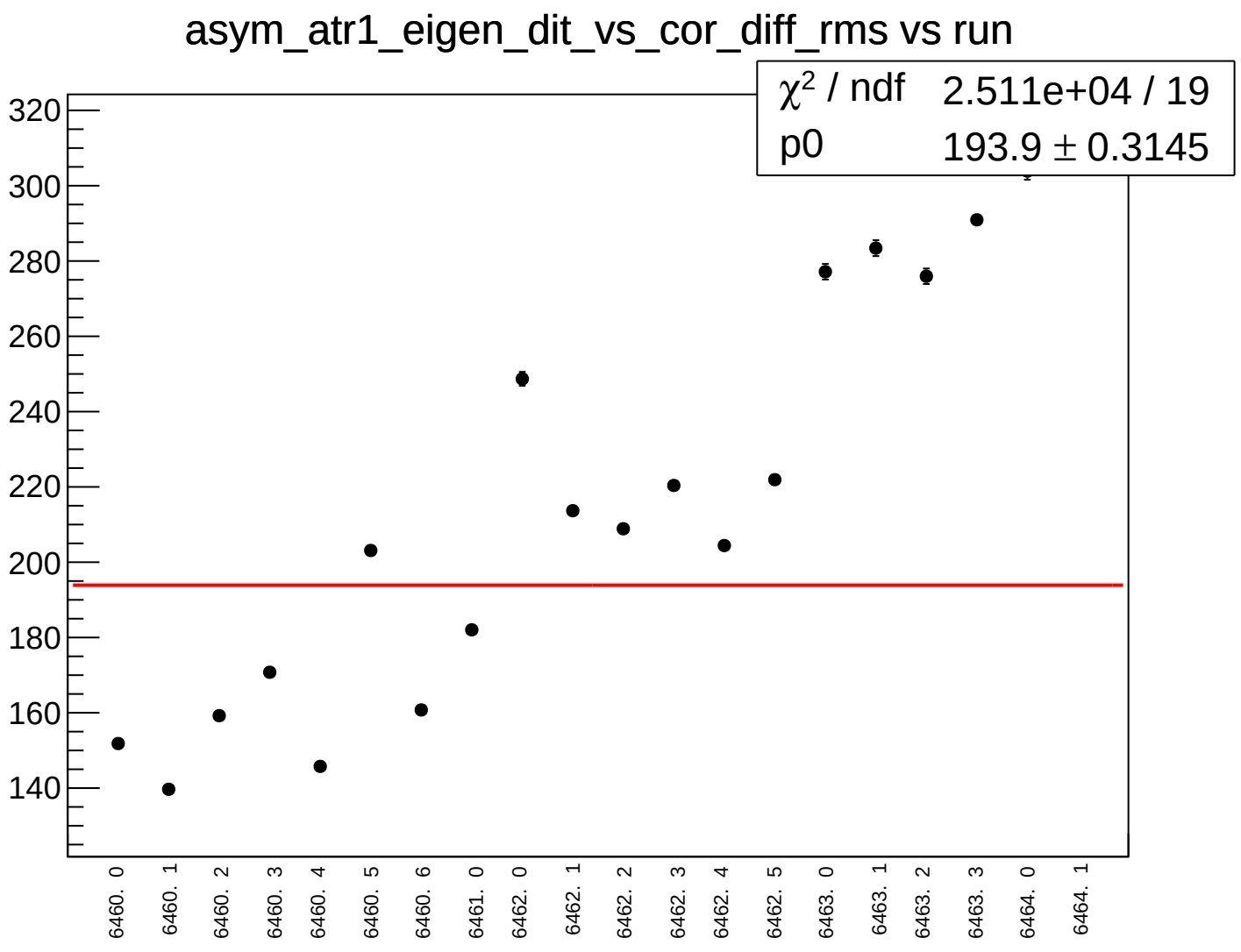


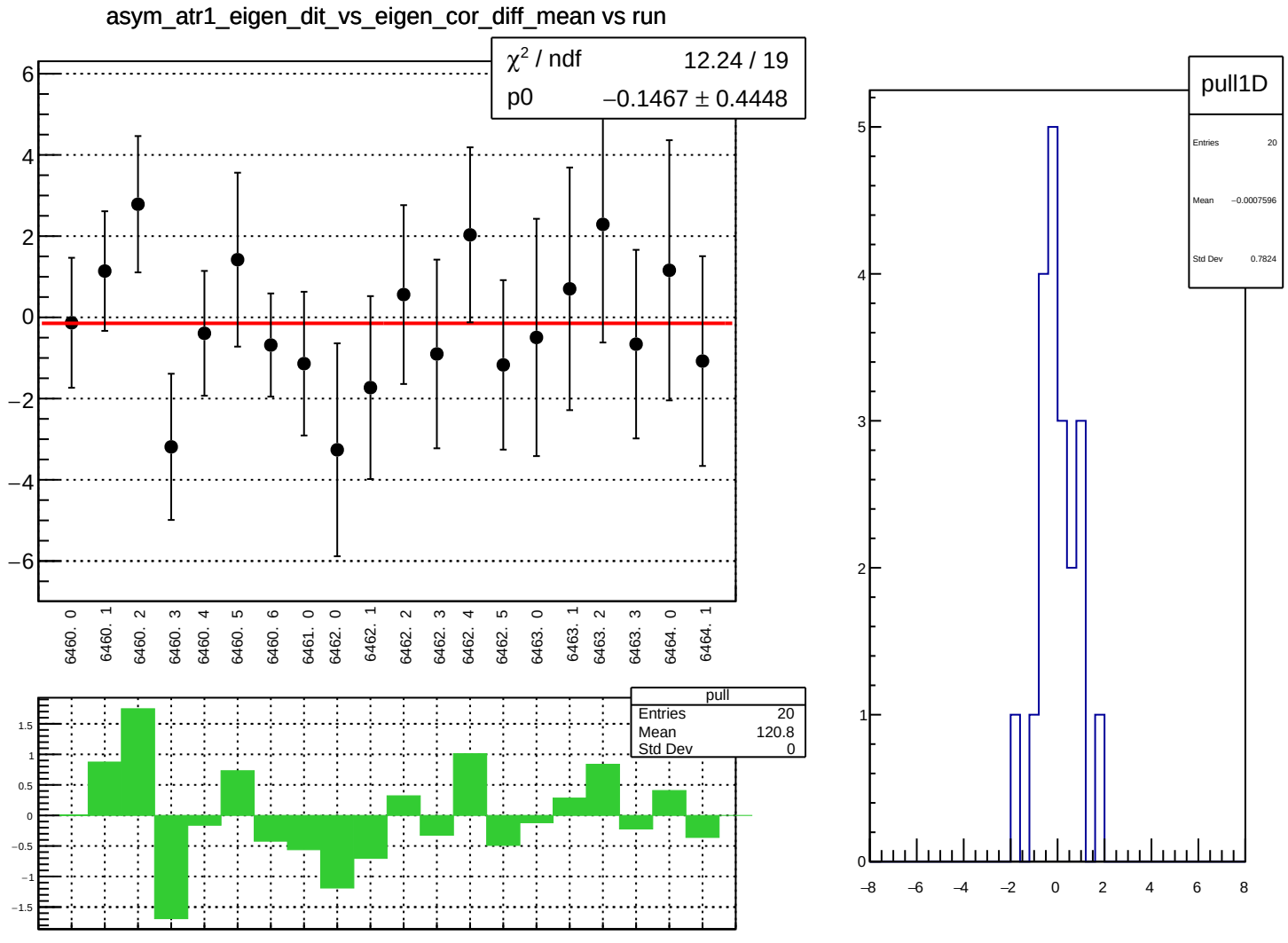

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.511e+04 / 19
p0 193.9 ± 0.3145
320
300
280
260
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

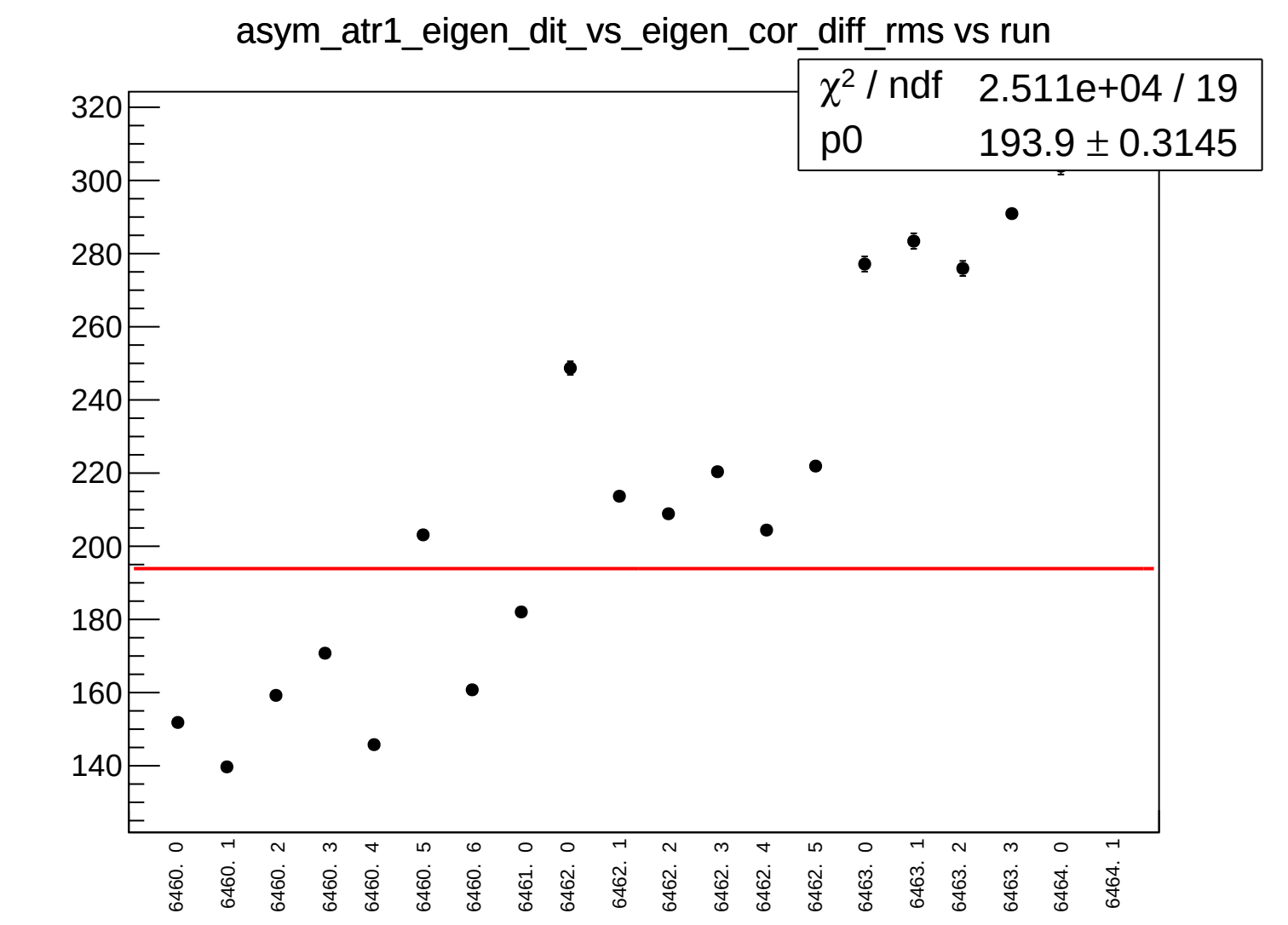

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 11.59 / 19
p0 5.725e−06 ± 5.308e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.55
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03058
Std Dev 0.7607
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

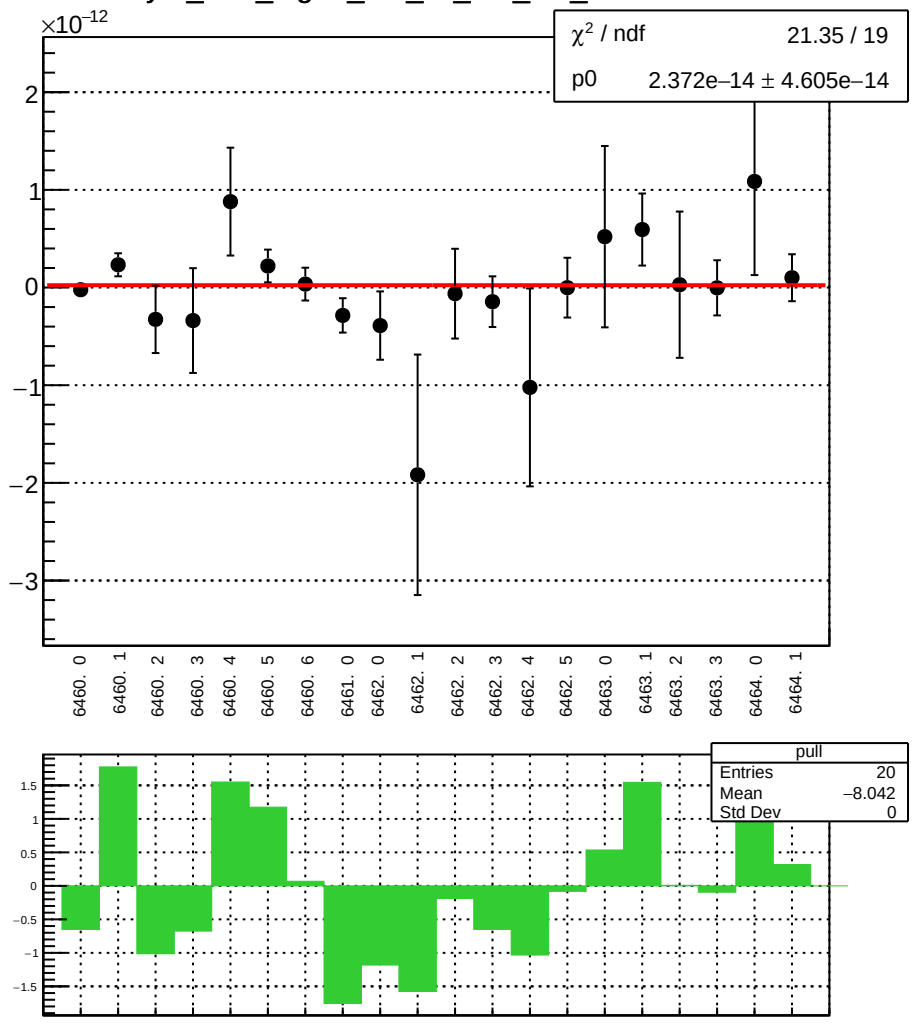

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 449.2 / 19
p0 0.002388 ± 3.753e−06
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

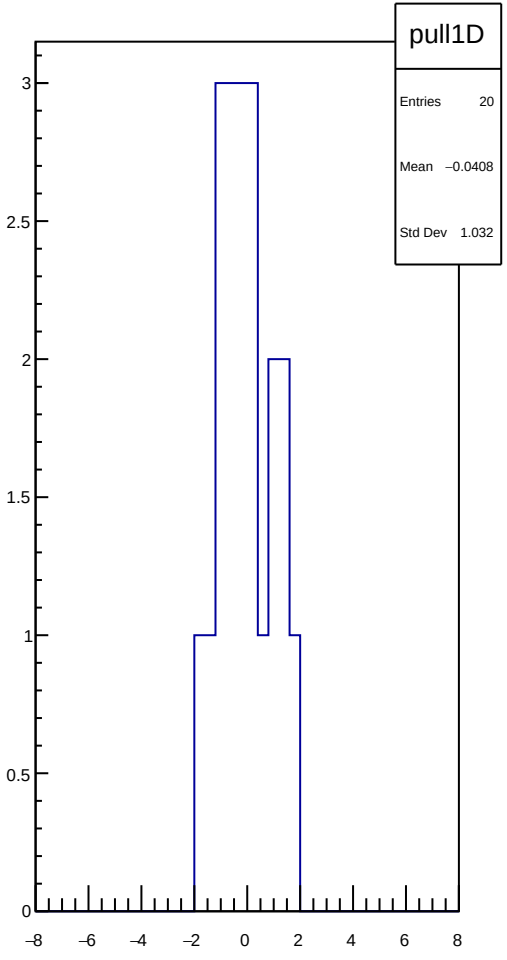

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 12.24 / 19
p0 −0.1467 ± 0.4448
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 120.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0007596
Std Dev 0.7824
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

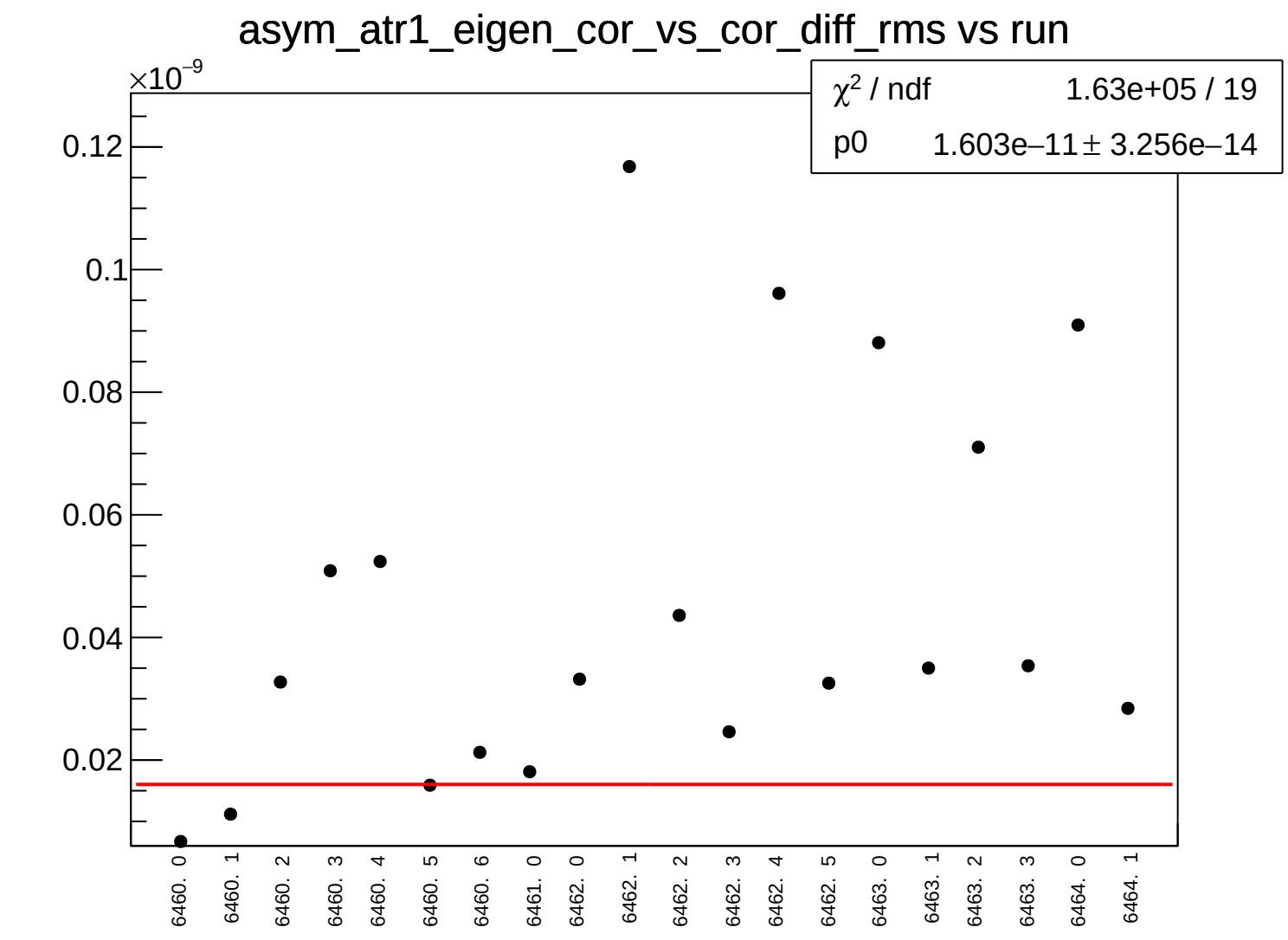

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.511e+04 / 19
p0 193.9 ± 0.3145
320
300
280
260
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

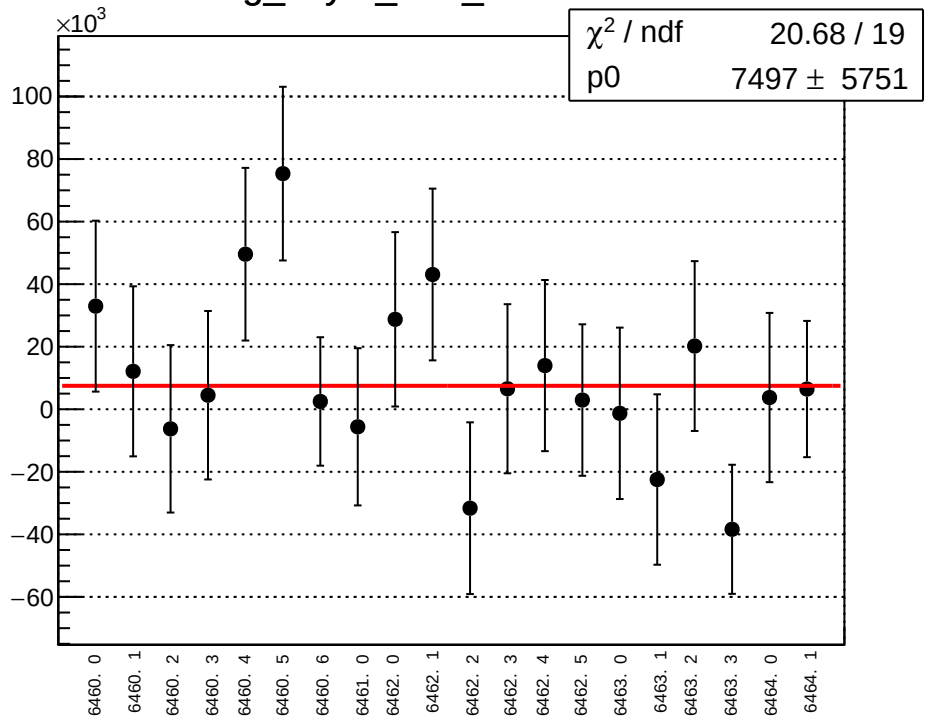

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.24 / 19
p0 −0.1467 ± 0.4448
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 120.8
Std Dev 0
pull1D
Entries 20
Mean −0.0007596
Std Dev 0.7824

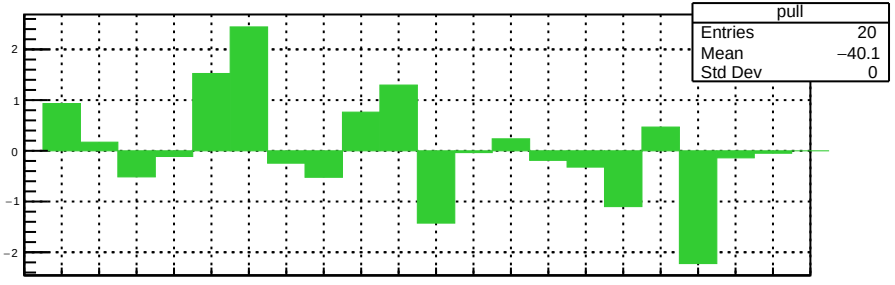

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.511e+04 / 19
p0 193.9 ± 0.3145
320
300
280
260
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

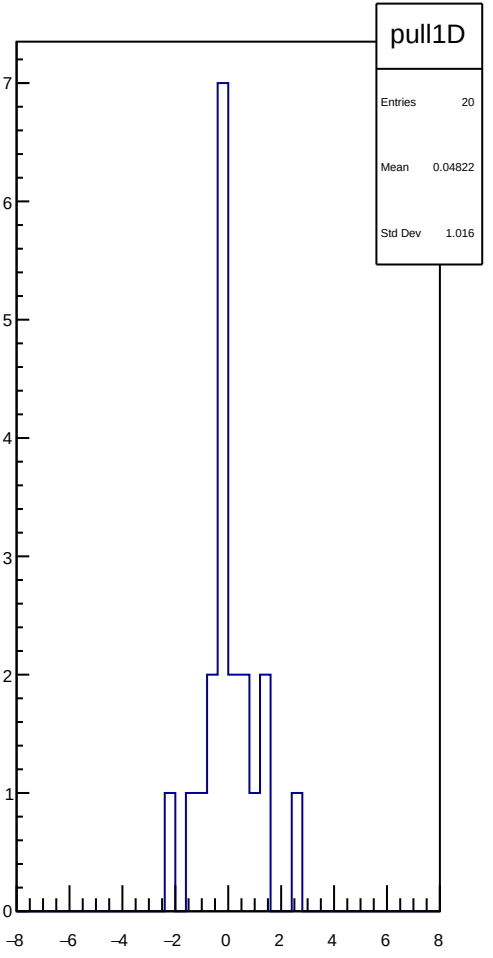

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.35 / 19
p0 2.372e−14 ± 4.605e−14
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −8.042
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

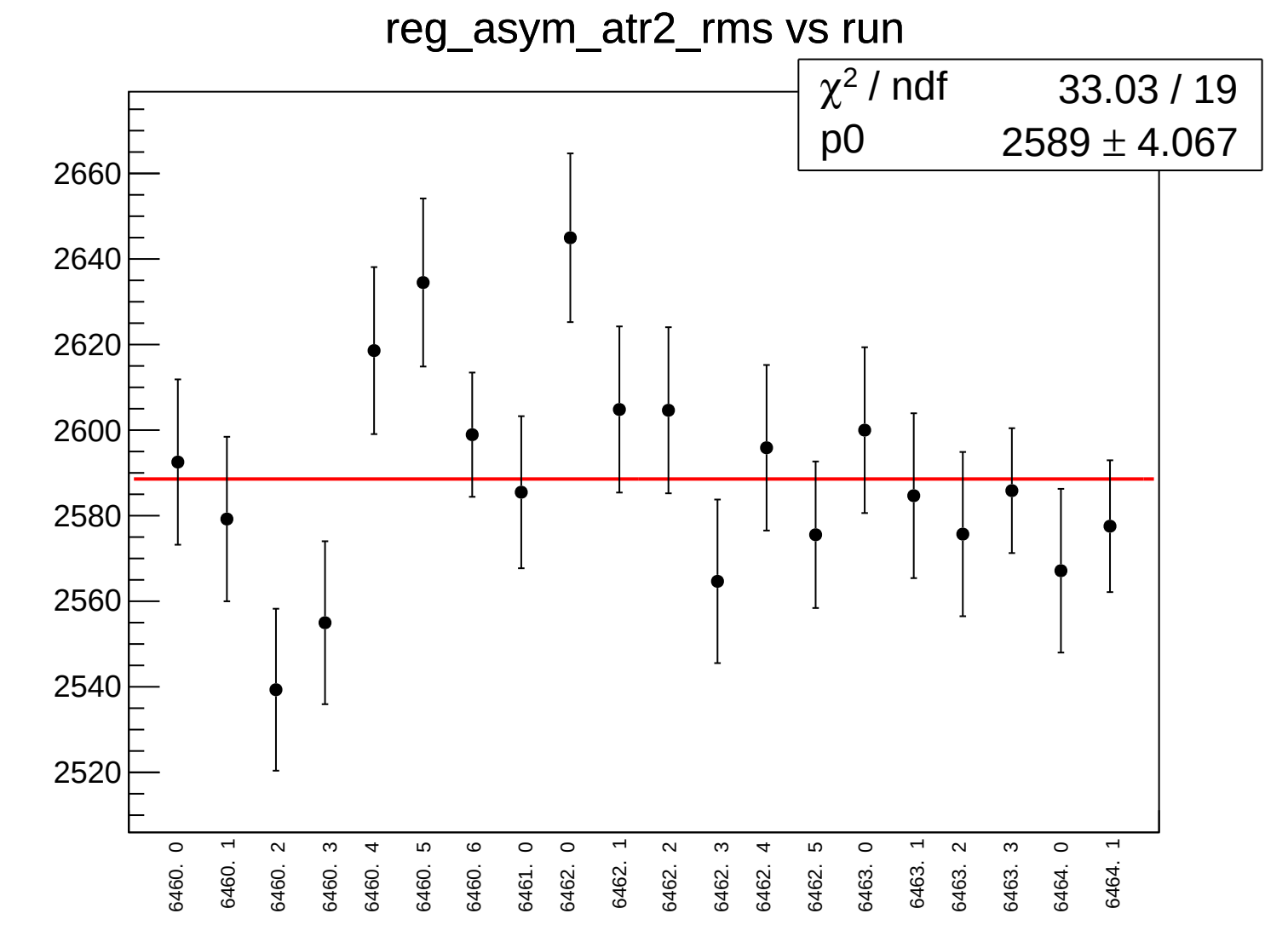

pull1D
Entries 20
Mean −0.0408
Std Dev 1.032
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

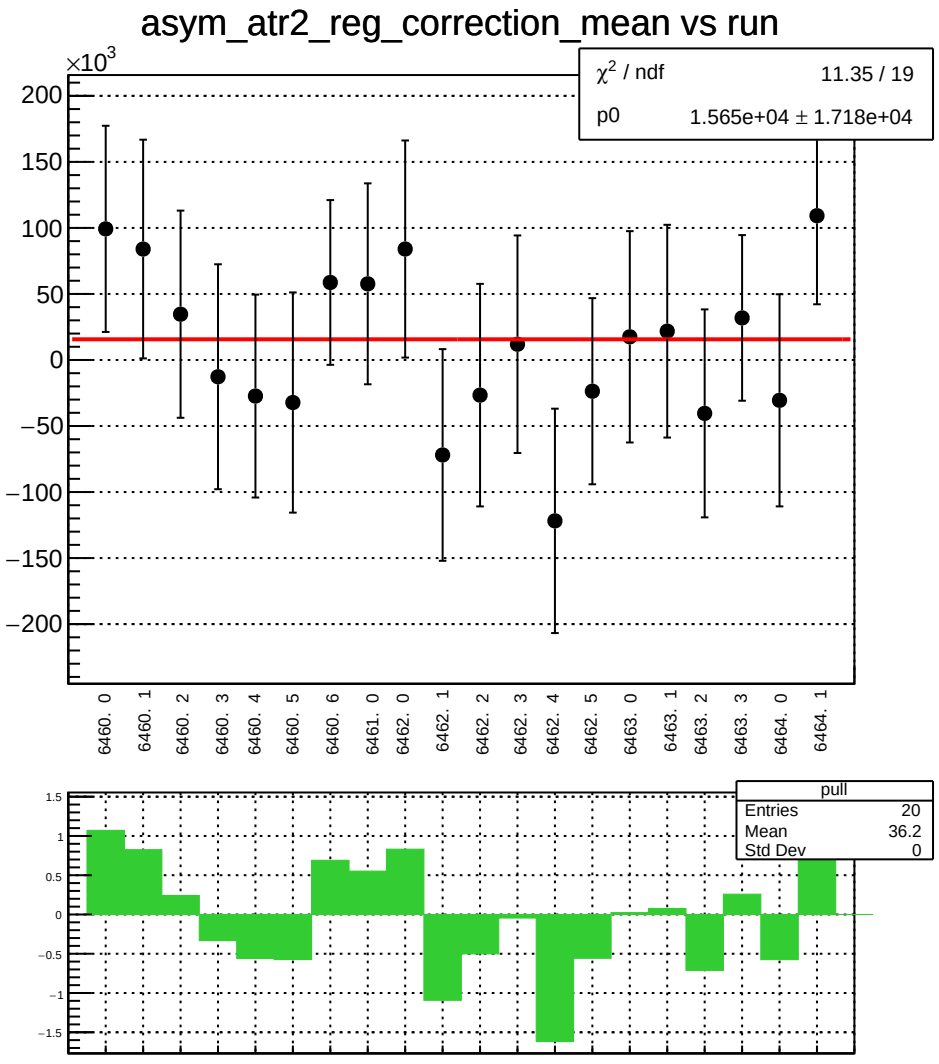

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.63e+05 / 19
p0 1.603e−11 ± 3.256e−14
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

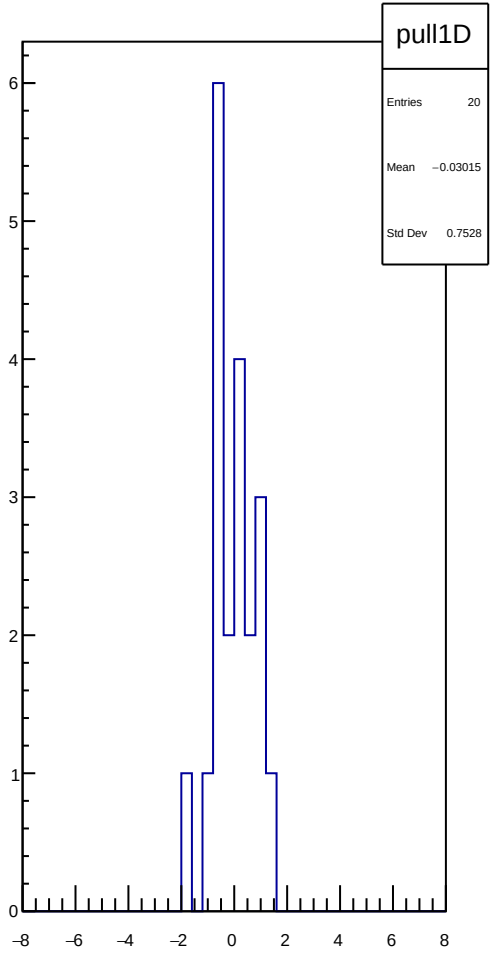

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 20.68 / 19
p0 7497 ± 5751
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

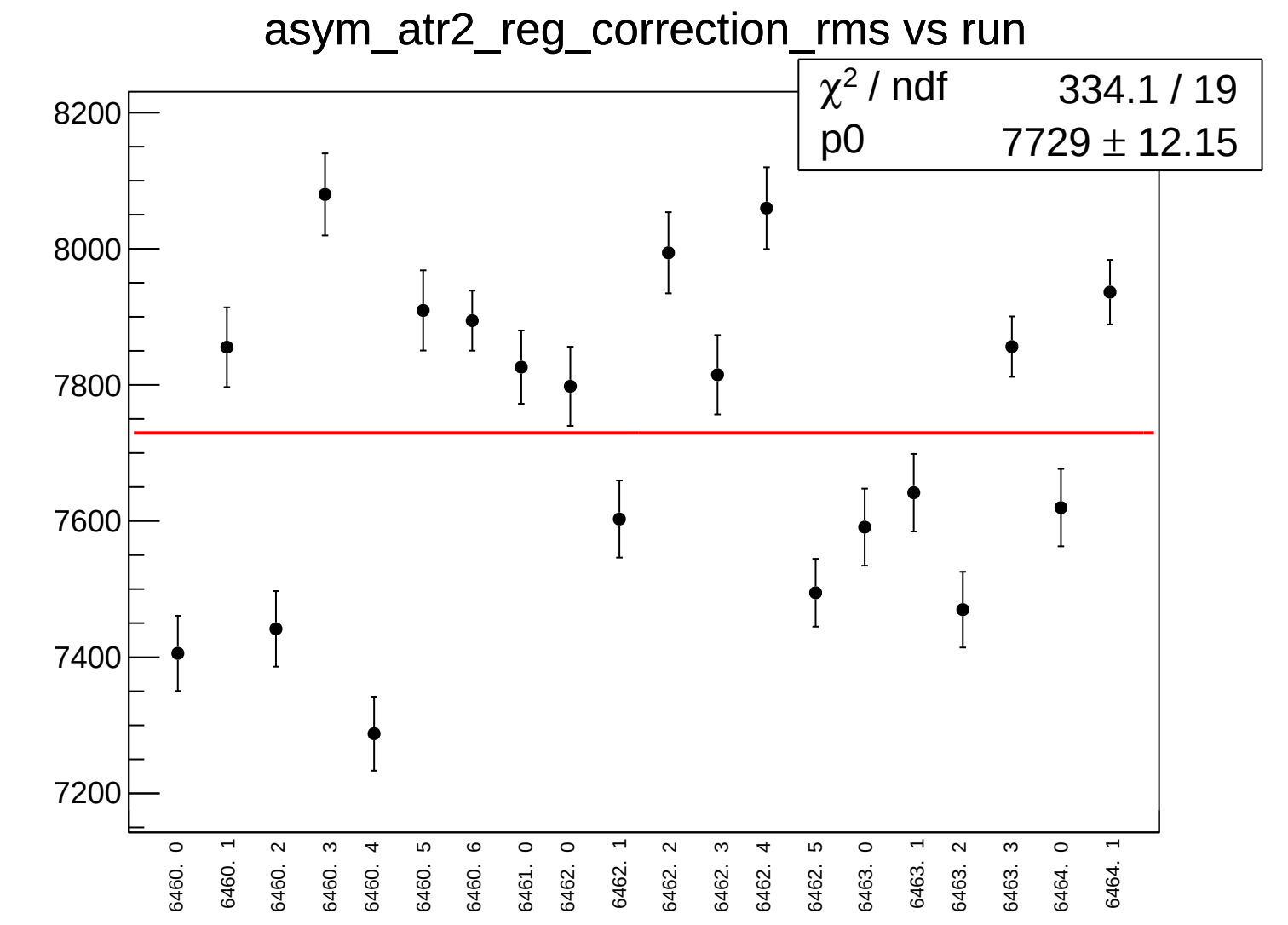

pull
Entries 20
Mean −40.1
Std Dev 0
2
1
0
−1
−2

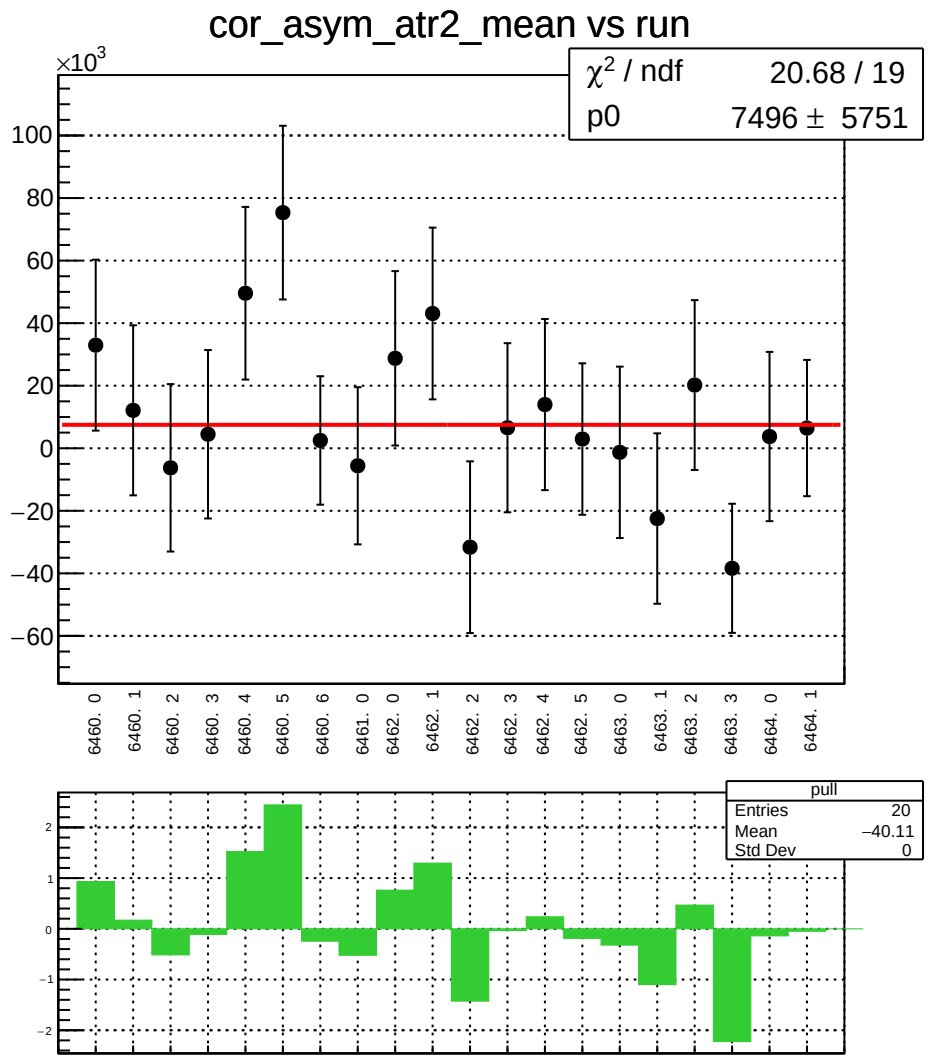

pull1D
Entries 20
Mean 0.04822
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

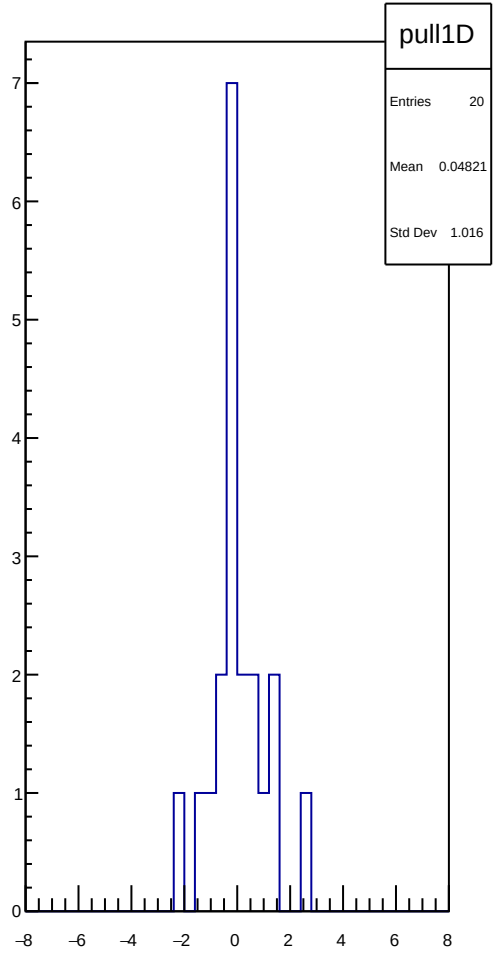

reg_asym_atr2_rms vs run
χ² / ndf 33.03 / 19
p0 2589 ± 4.067
2660
2640
2620
2600
2580
2560
2540
2520
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

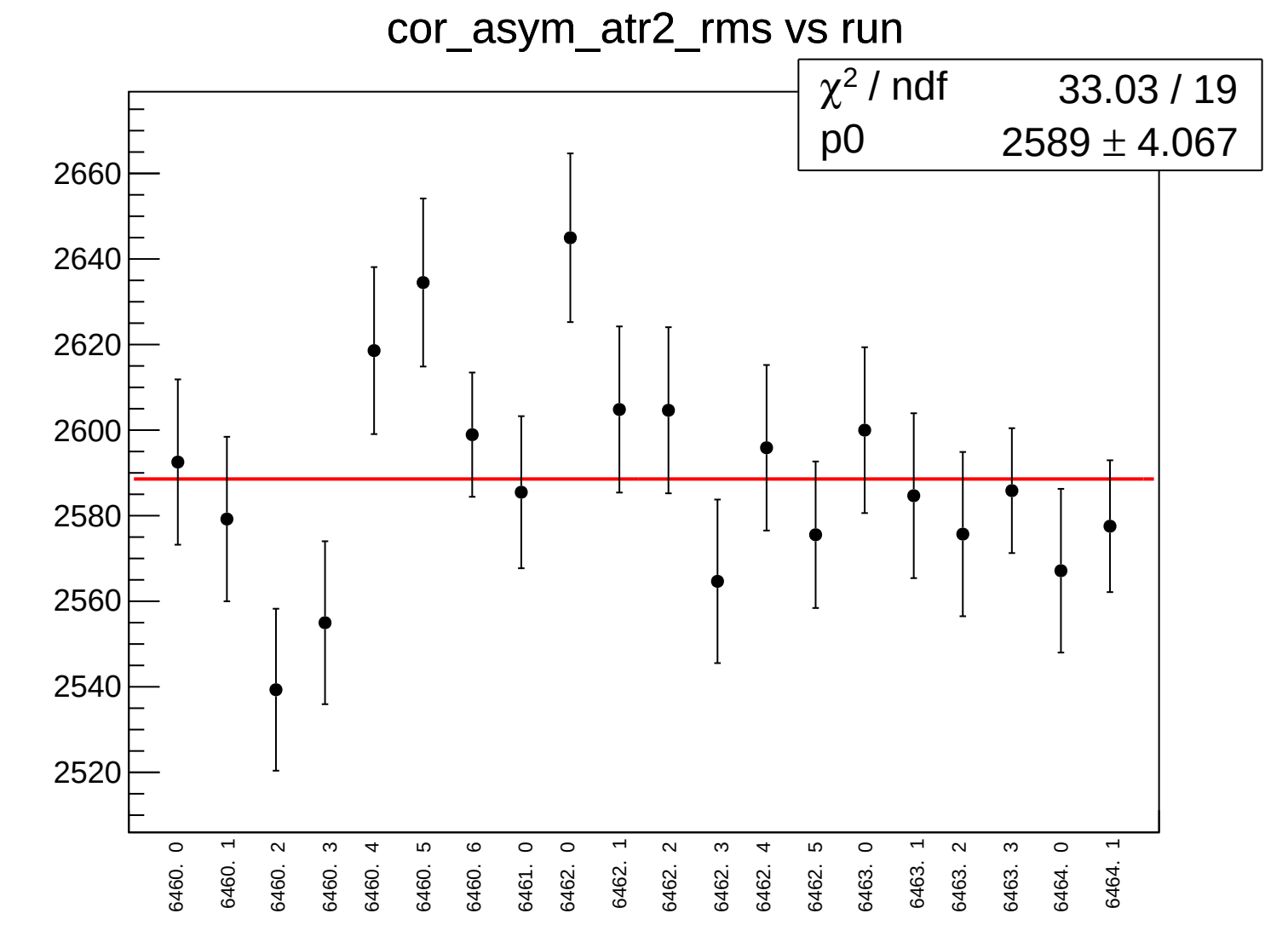

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 11.35 / 19
p0 1.565e+04 ± 1.718e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

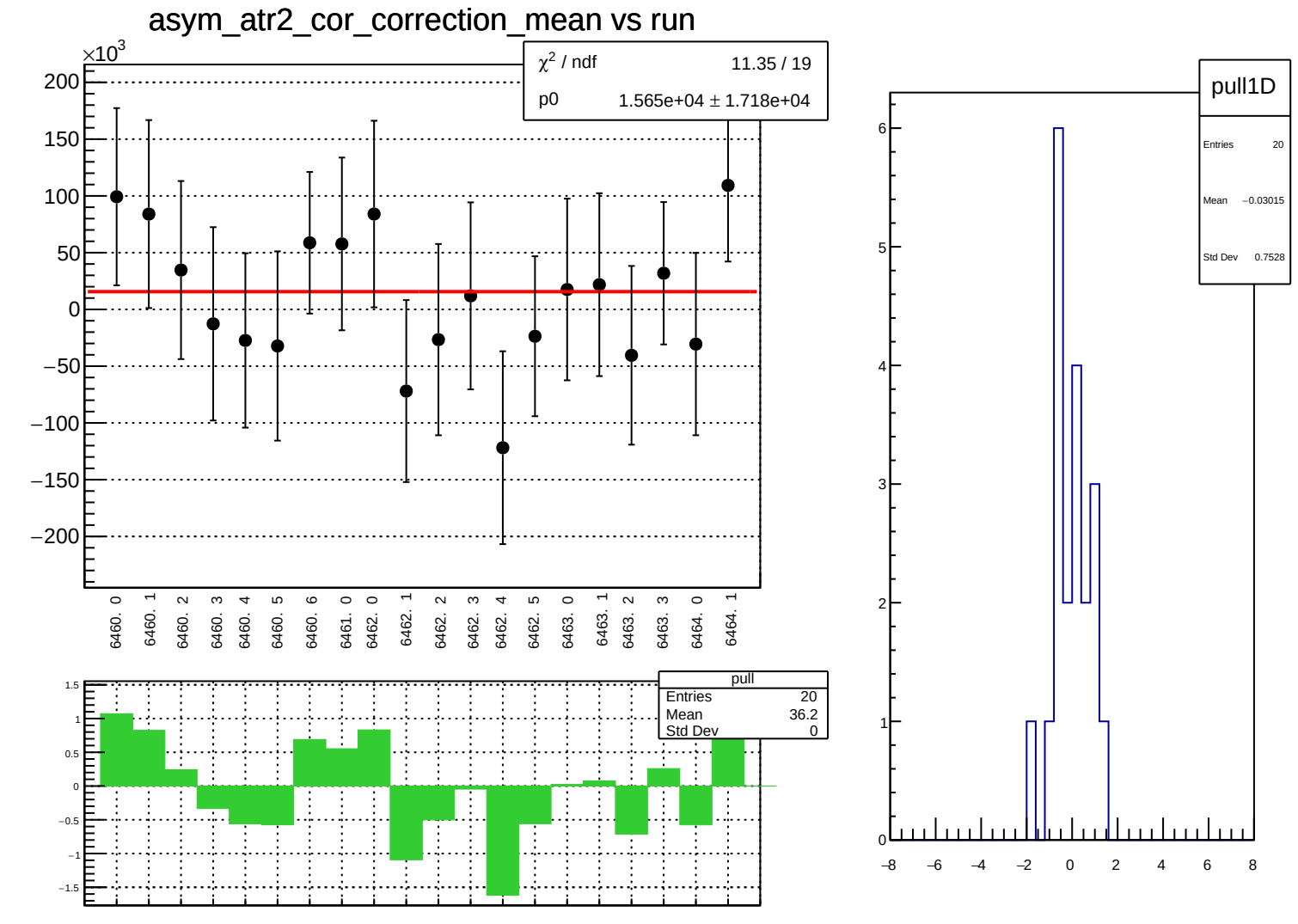

pull1D
Entries 20
Mean −0.03015
Std Dev 0.7528
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

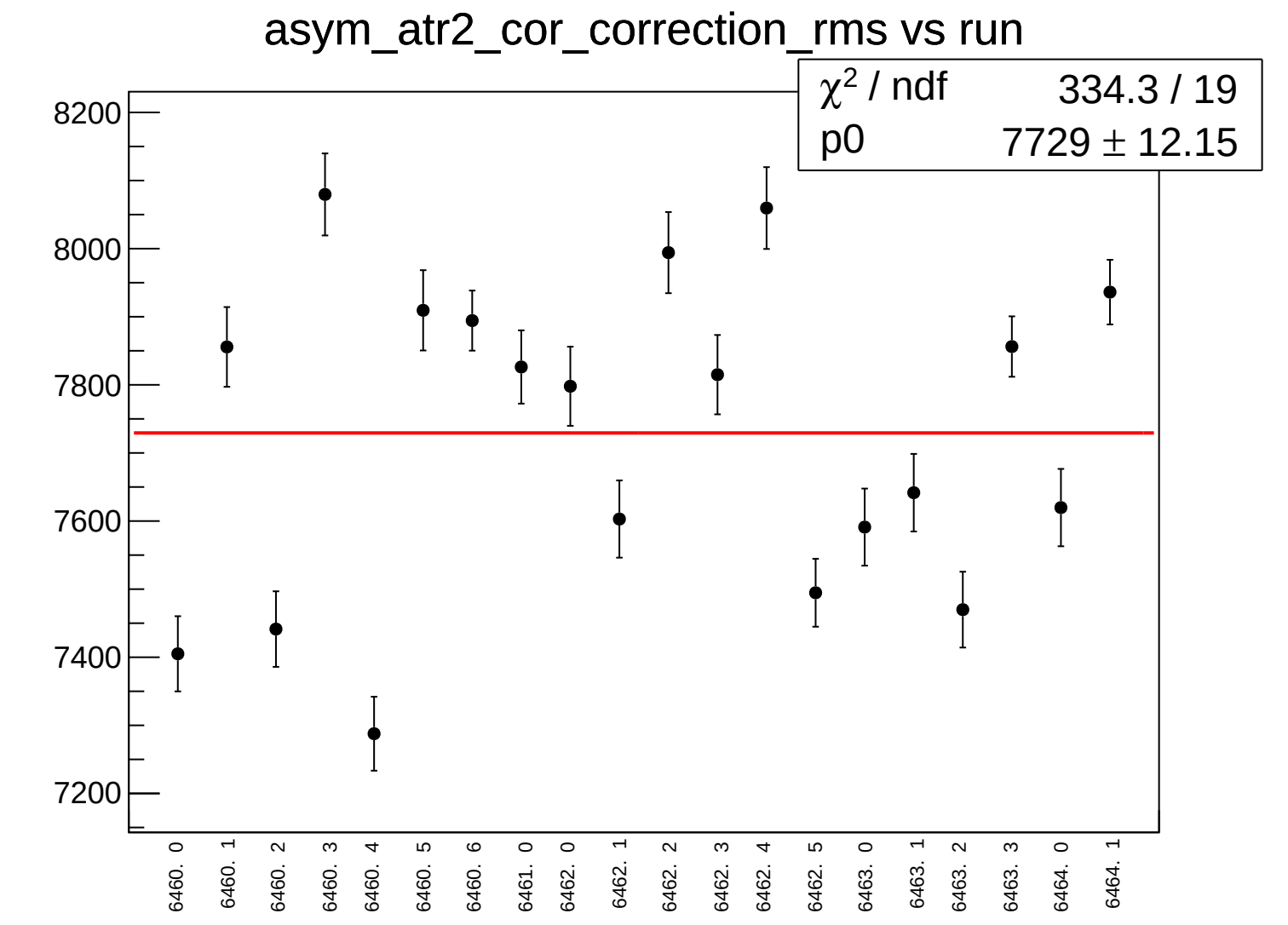

asym_atr2_reg_correction_rms vs run
χ² / ndf 334.1 / 19
p0 7729 ± 12.15
8200
8000
7800
7600
7400
7200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

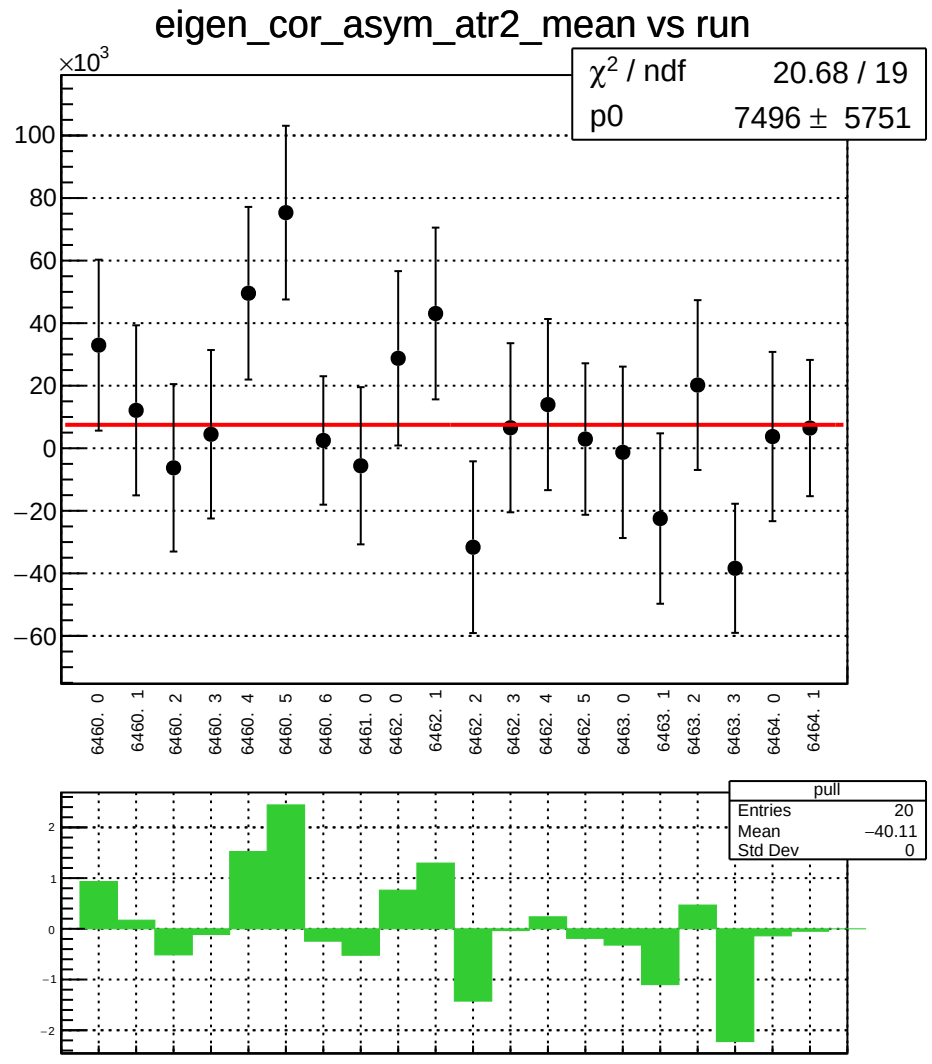

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 20.68 / 19
p0 7496 ± 5751
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −40.11
Std Dev 0
2
1
0
−1
−2

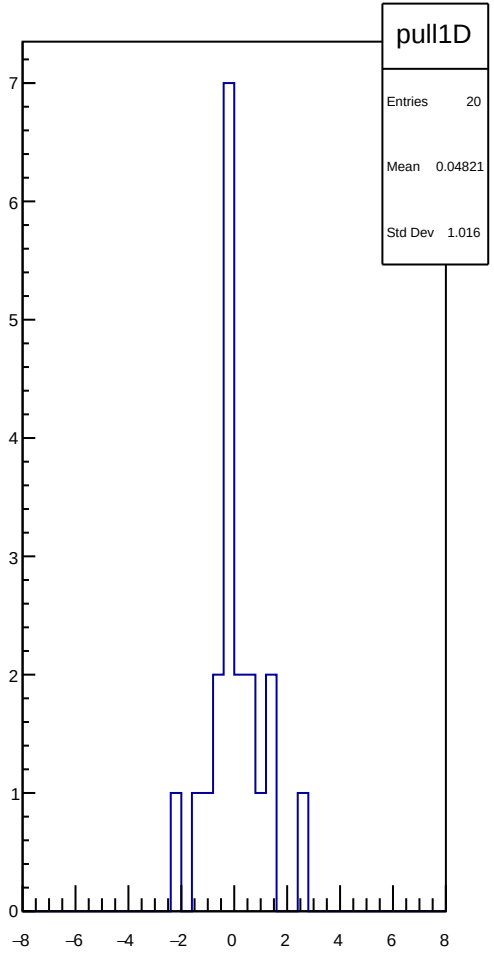

pull1D
Entries 20
Mean 0.04821
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

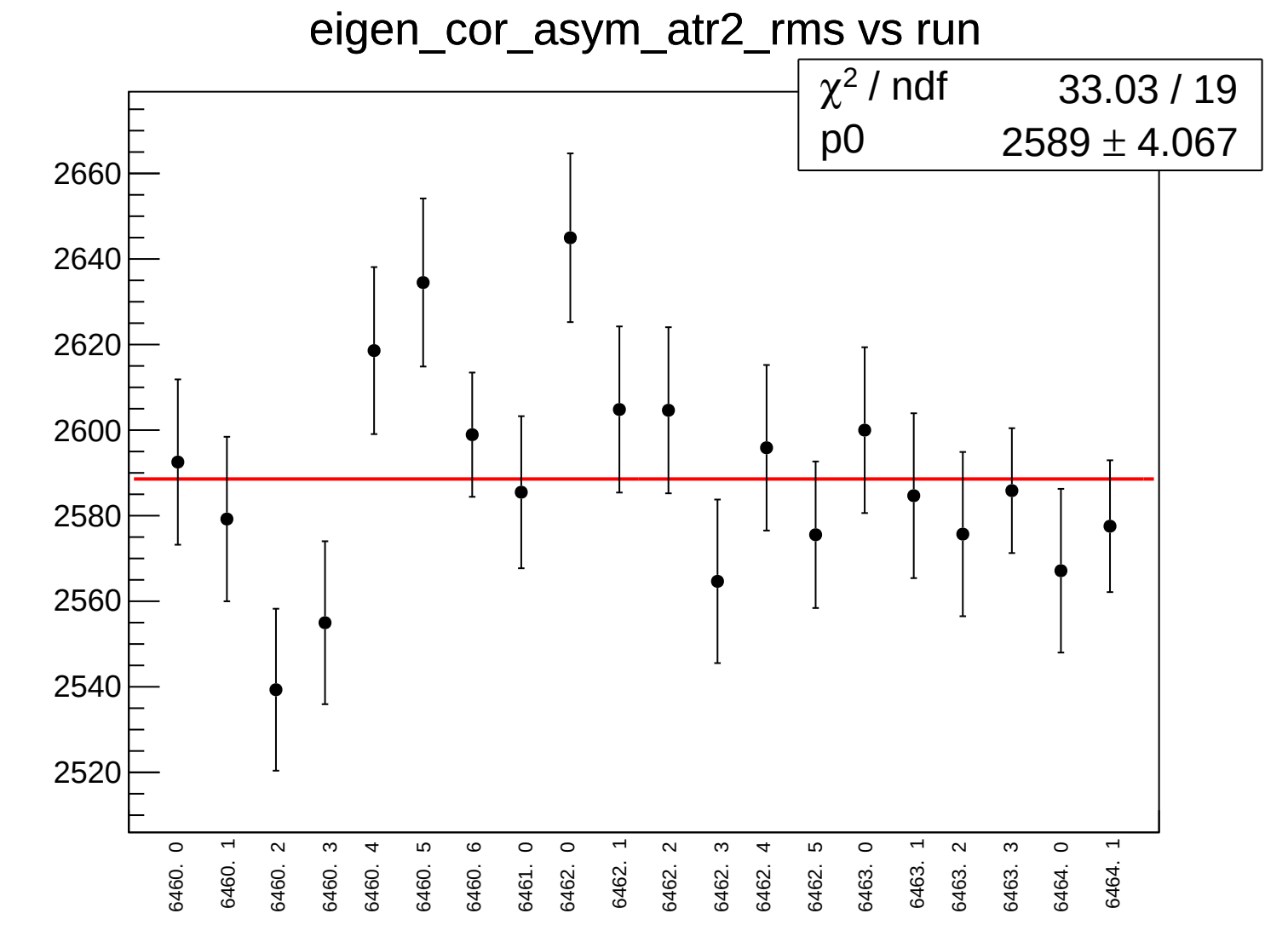

cor_asym_atr2_rms vs run
χ² / ndf 33.03 / 19
p0 2589 ± 4.067
2660
2640
2620
2600
2580
2560
2540
2520
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

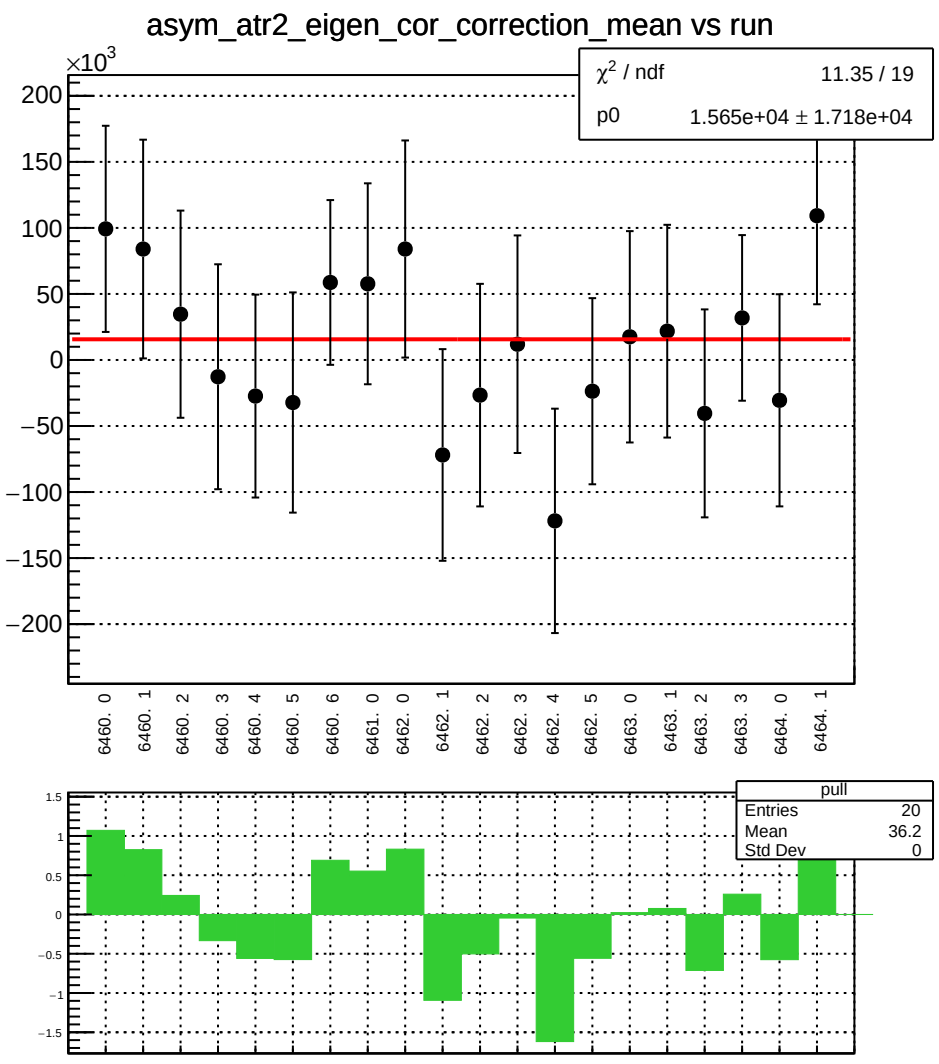

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 11.35 / 19
p0 1.565e+04 ± 1.718e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03015
Std Dev 0.7528
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

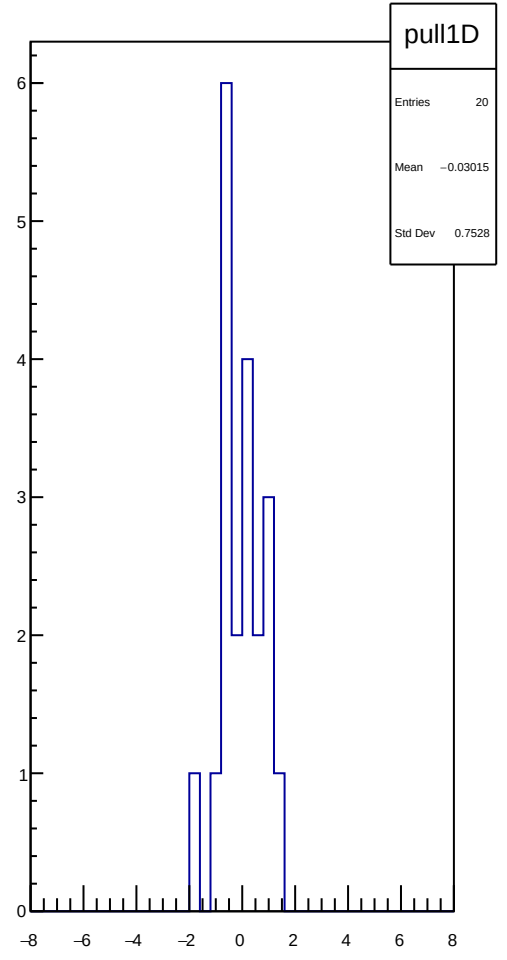

asym_atr2_cor_correction_rms vs run
χ² / ndf 334.3 / 19
p0 7729 ± 12.15
8200
8000
7800
7600
7400
7200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

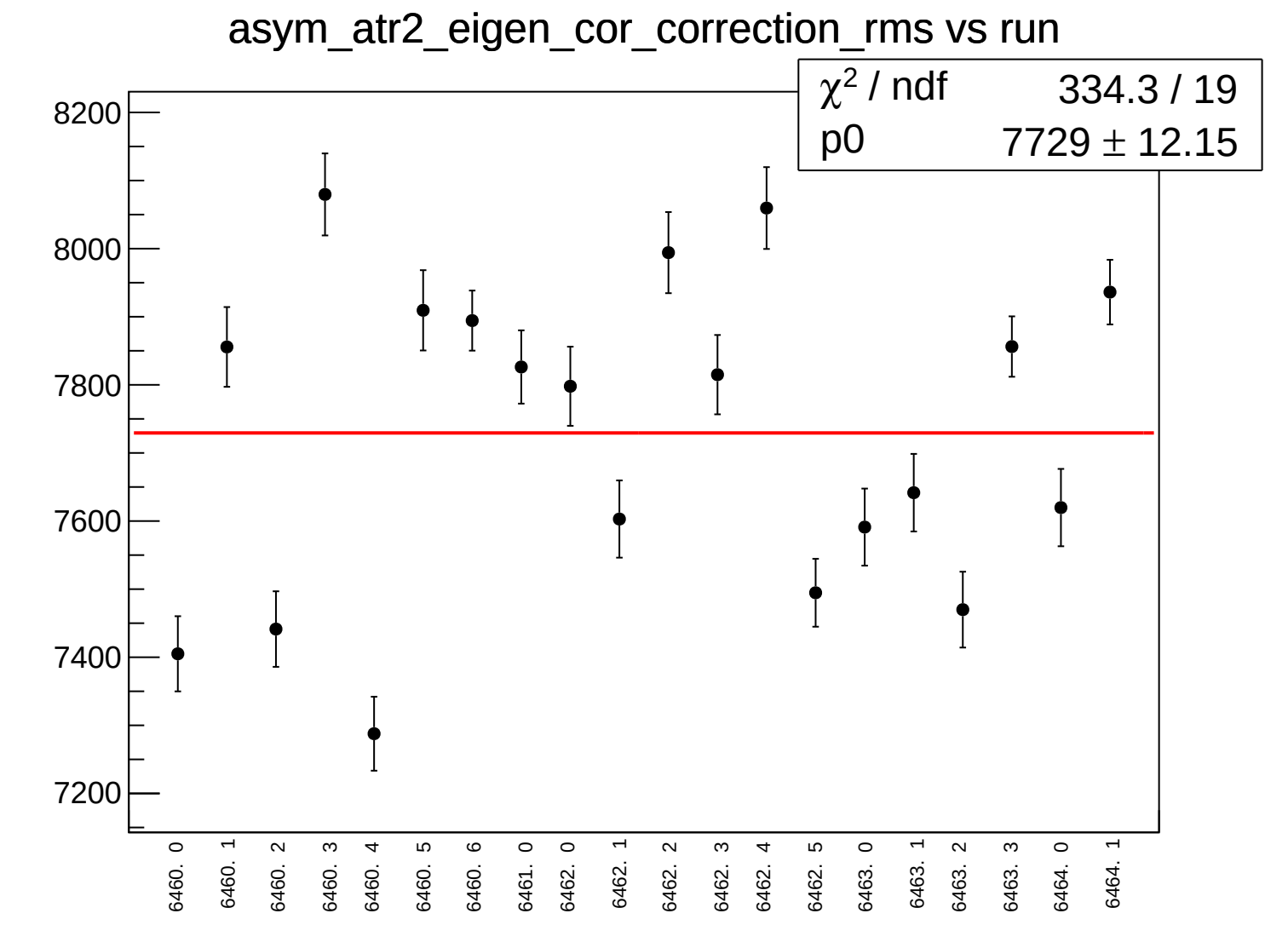

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 20.68 / 19
p0 7496 ± 5751
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −40.11
Std Dev 0
2
1
0
−1
−2

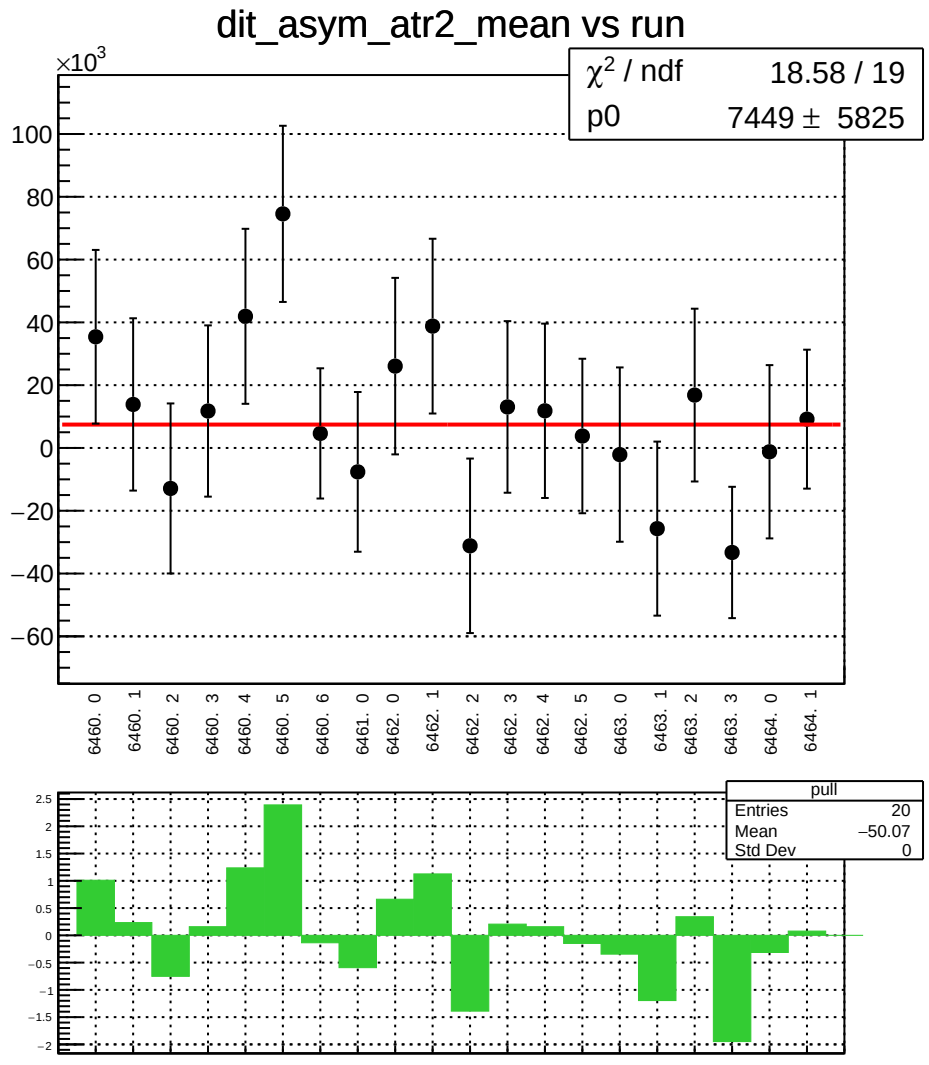

pull1D
Entries 20
Mean 0.04821
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

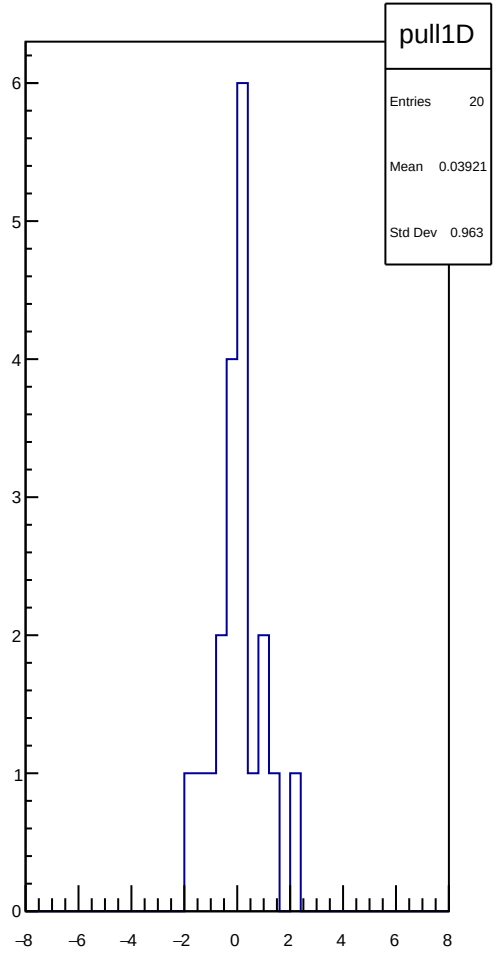

eigen_cor_asym_atr2_rms vs run
χ² / ndf 33.03 / 19
p0 2589 ± 4.067
2660
2640
2620
2600
2580
2560
2540
2520
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

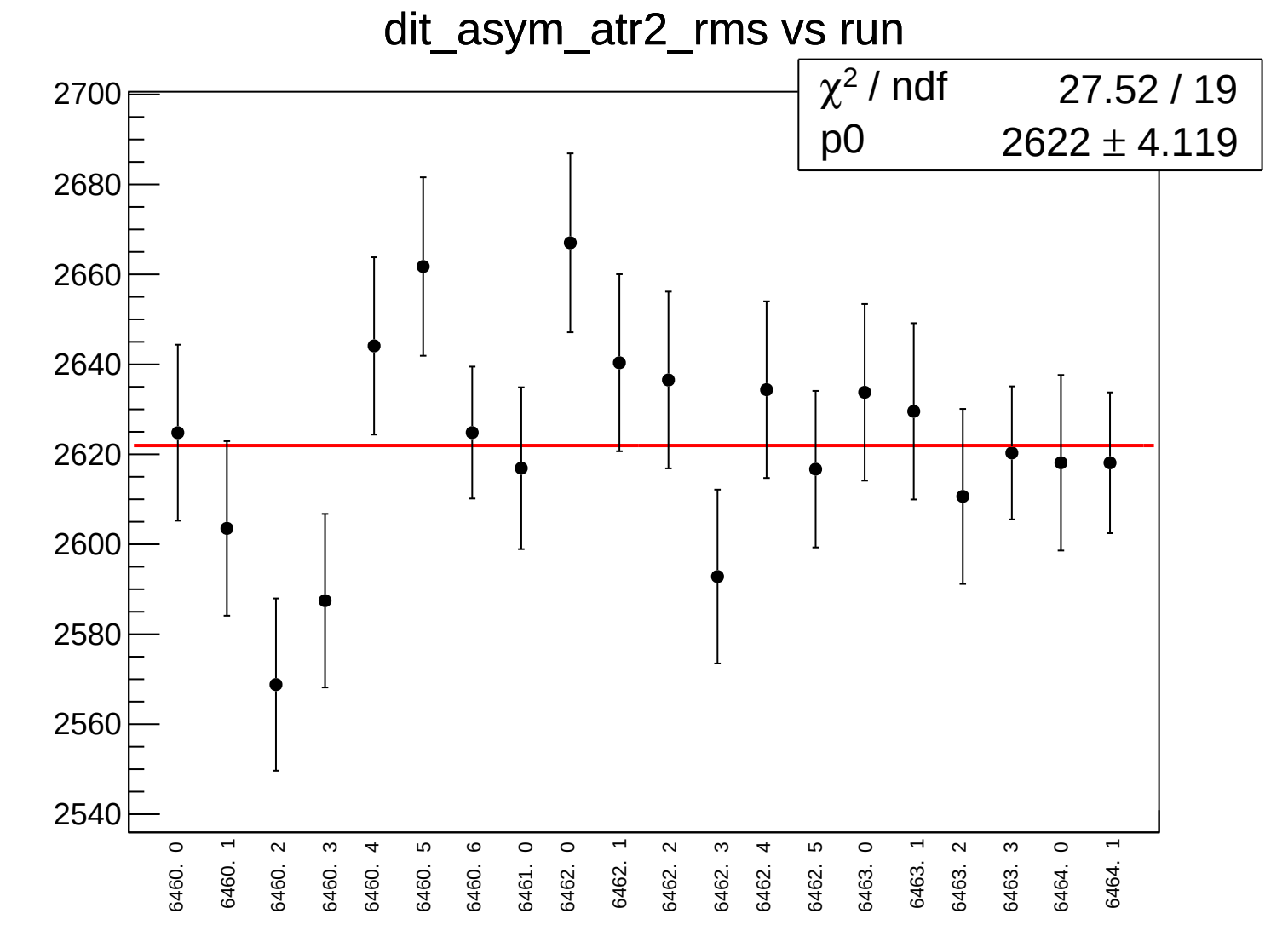

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 11.35 / 19
p0 1.565e+04 ± 1.718e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

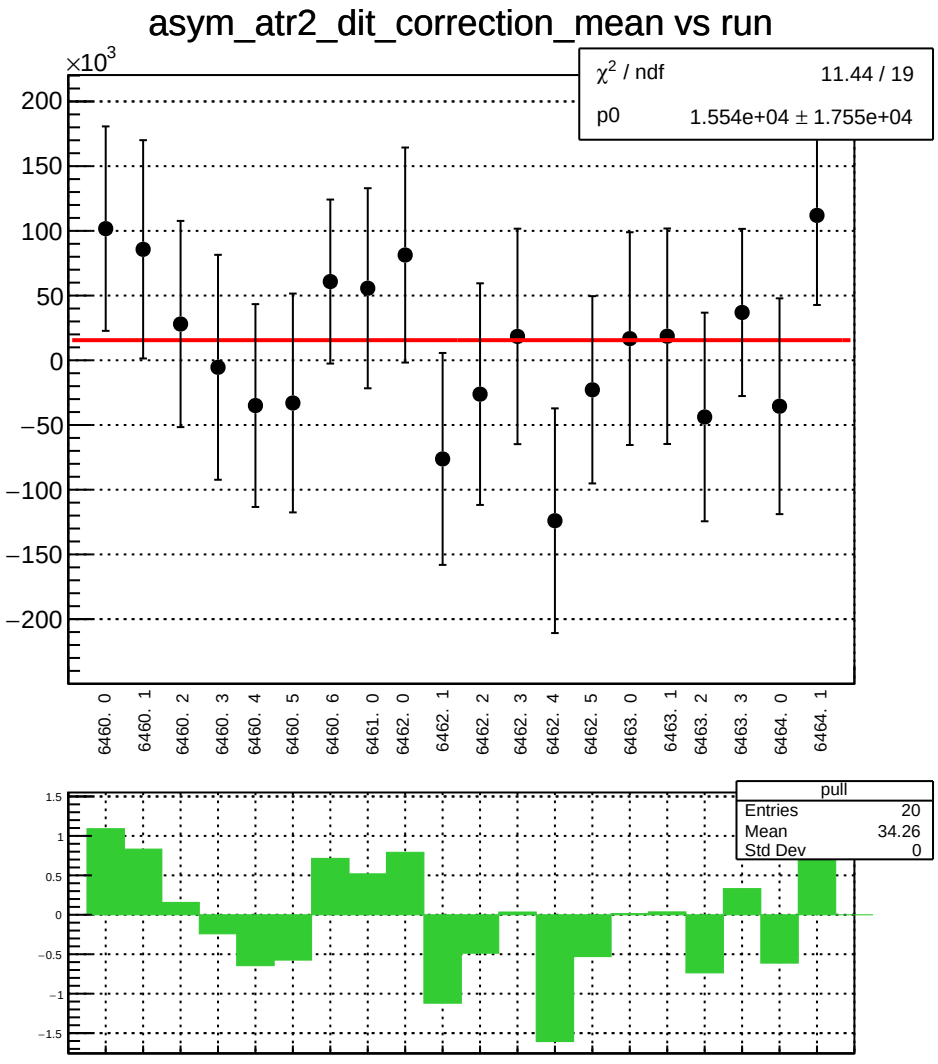

pull1D
Entries 20
Mean −0.03015
Std Dev 0.7528
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

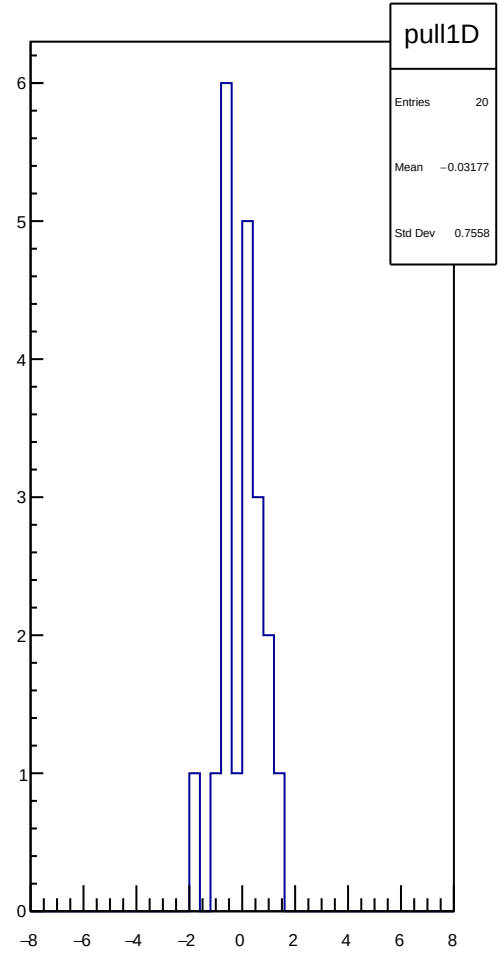

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 334.3 / 19
p0 7729 ± 12.15
8200
8000
7800
7600
7400
7200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

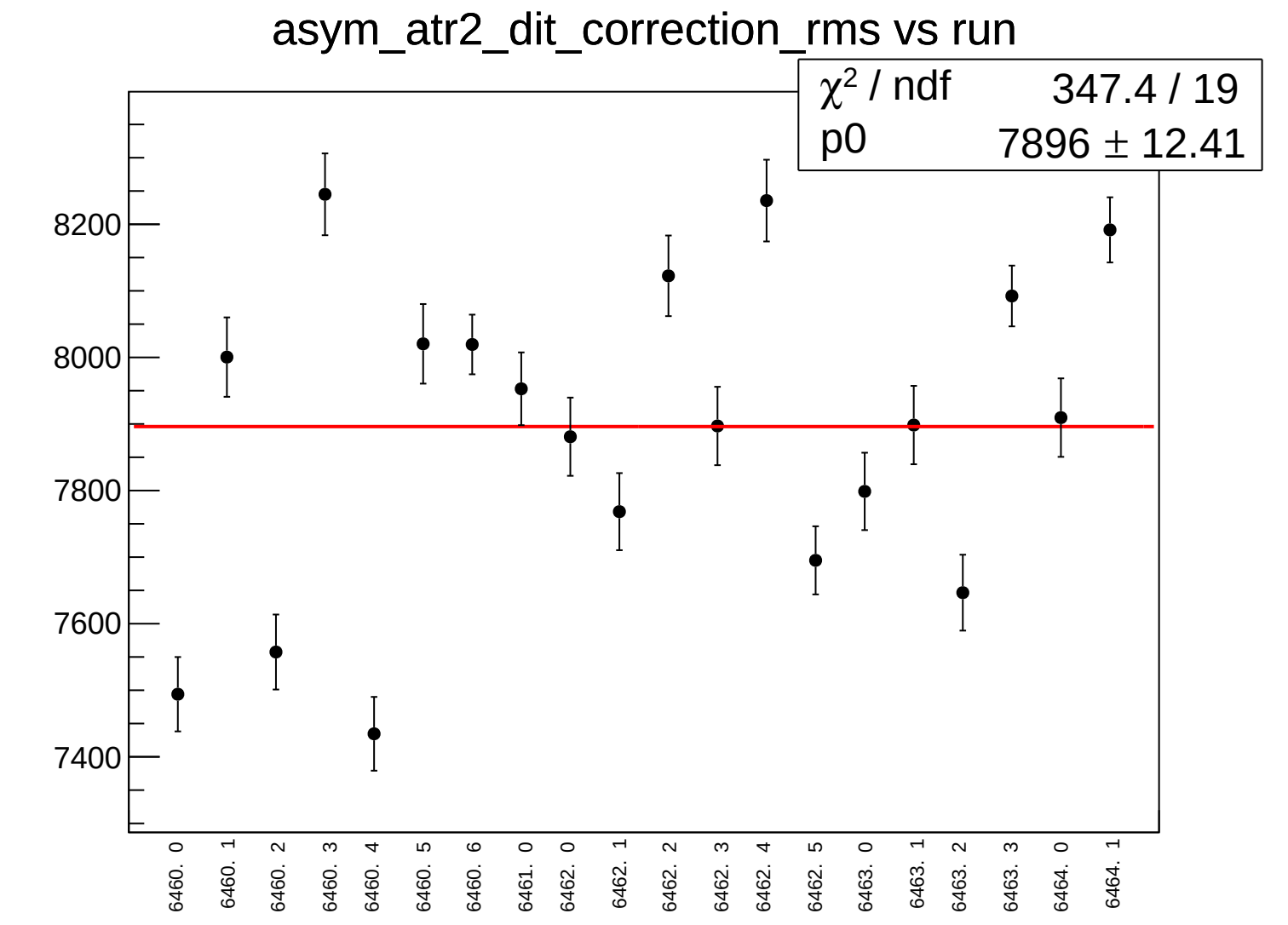

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 18.58 / 19
p0 7449 ± 5825
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

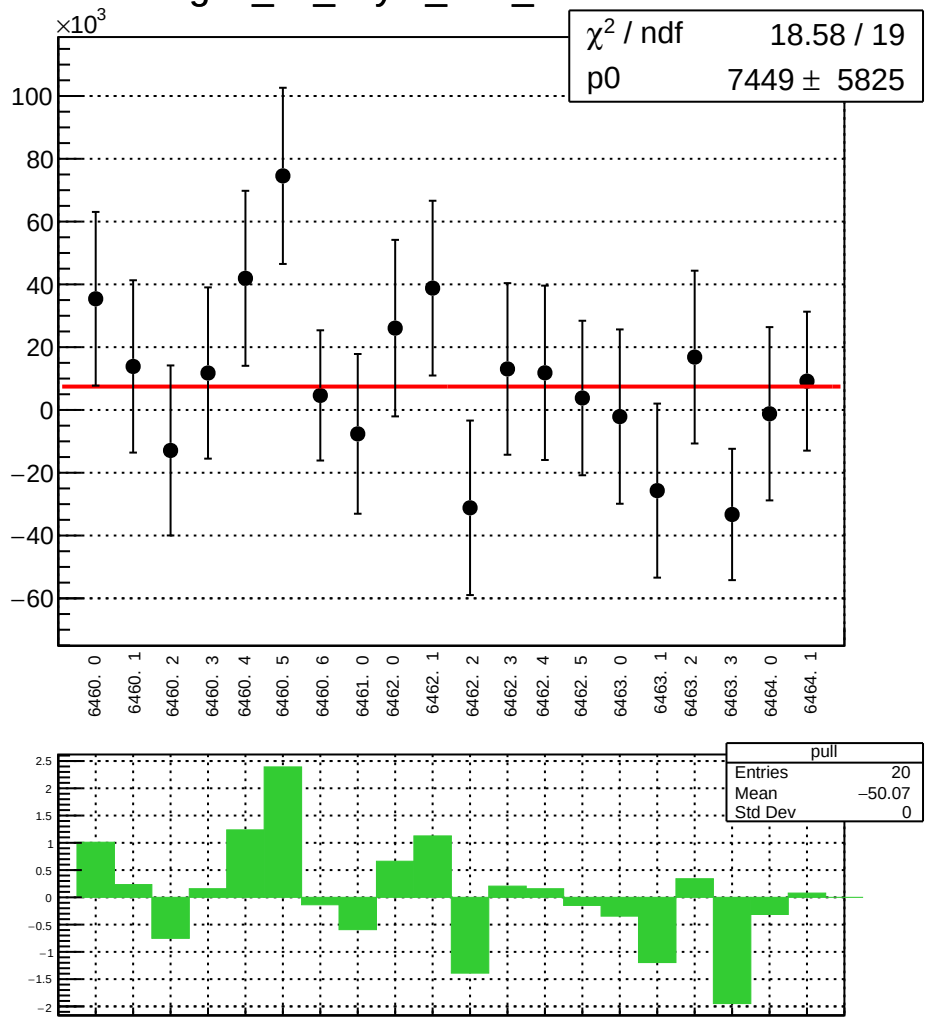

pull1D
Entries 20
Mean 0.03921
Std Dev 0.963
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

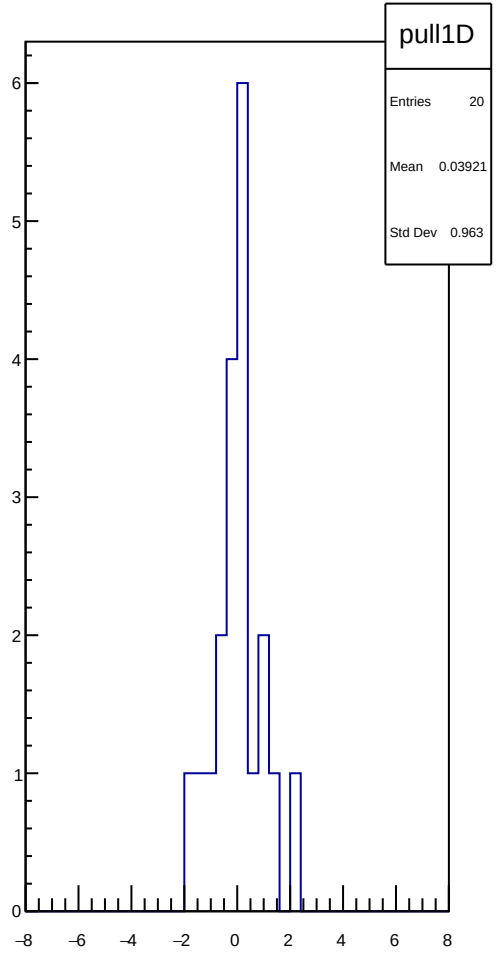

dit_asym_atr2_rms vs run
χ² / ndf 27.52 / 19
p0 2622 ± 4.119
2700
2680
2660
2640
2620
2600
2580
2560
2540
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

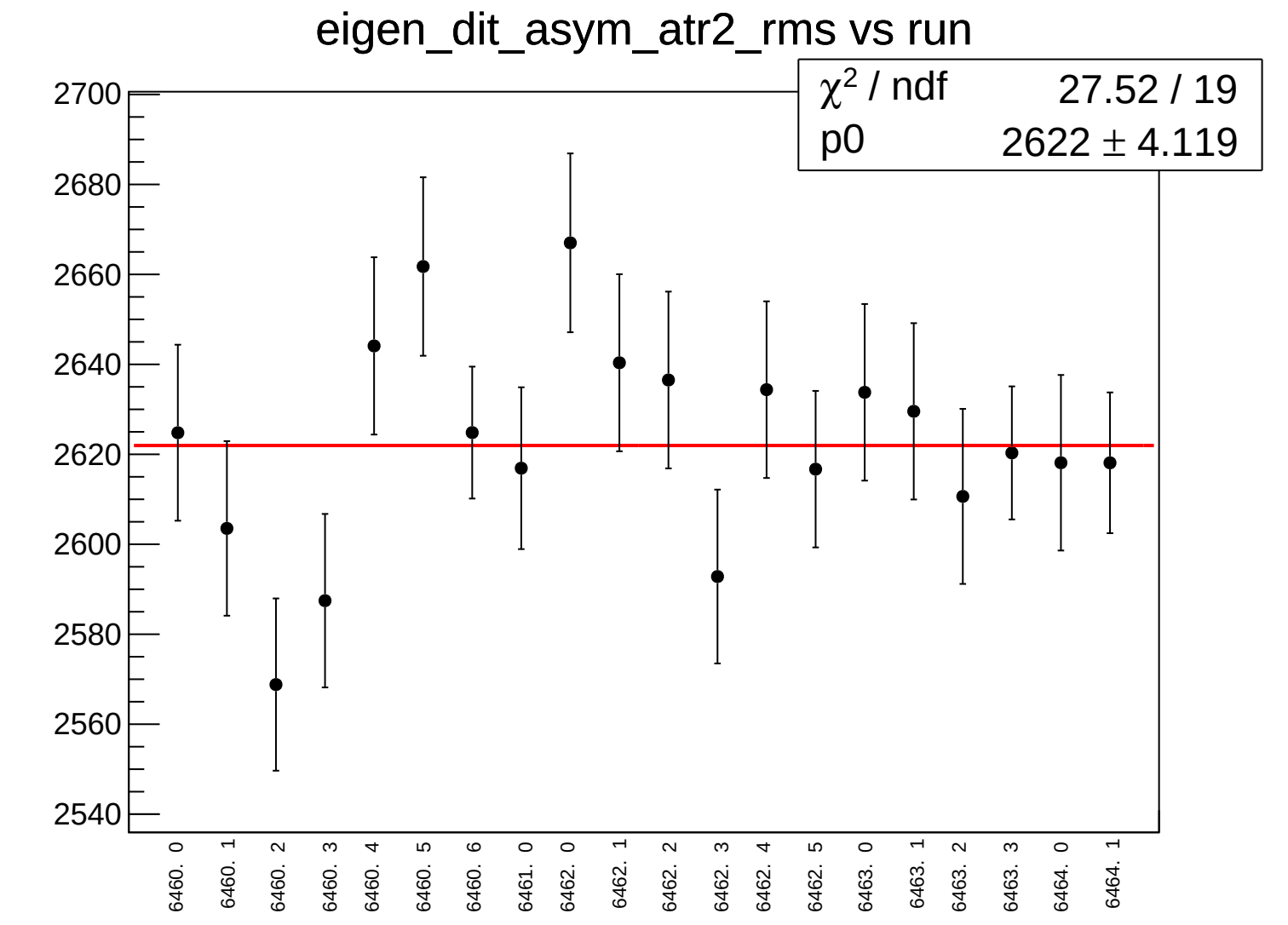

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 11.44 / 19
p0 1.554e+04 ± 1.755e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

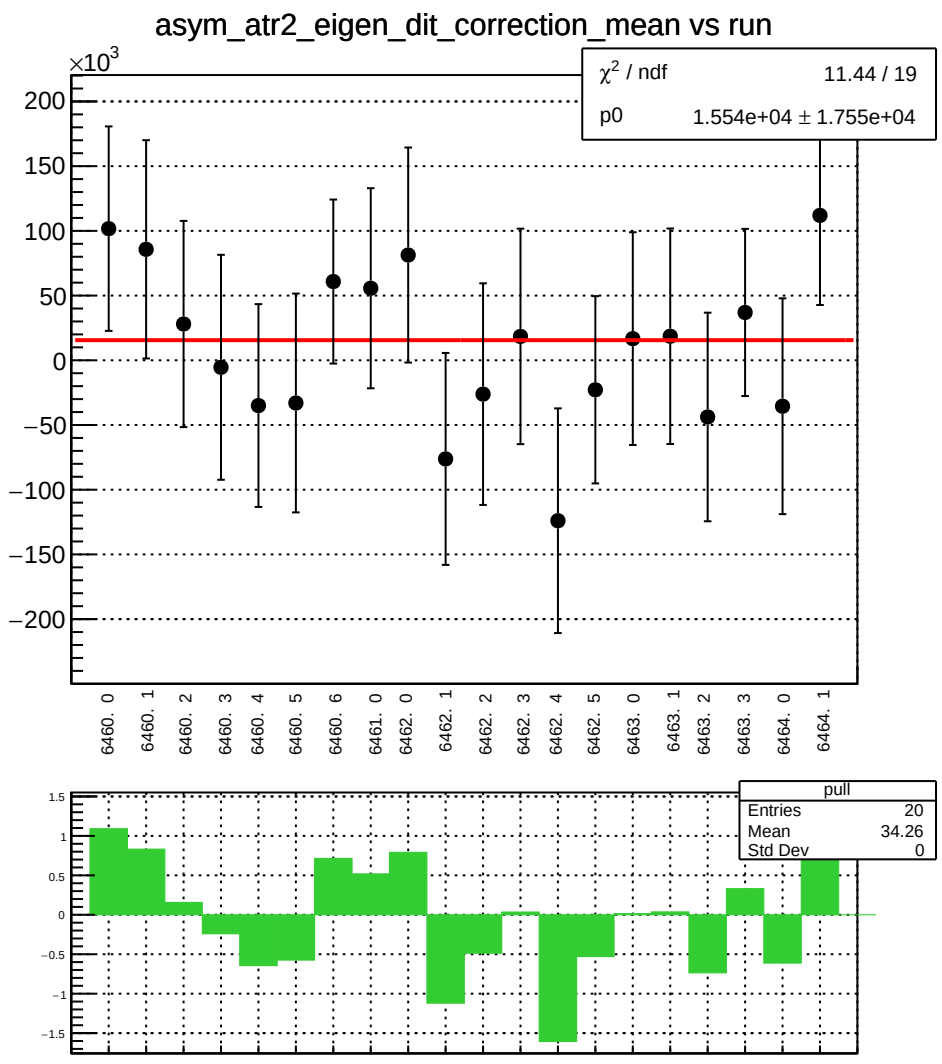

pull1D
Entries 20
Mean −0.03177
Std Dev 0.7558
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

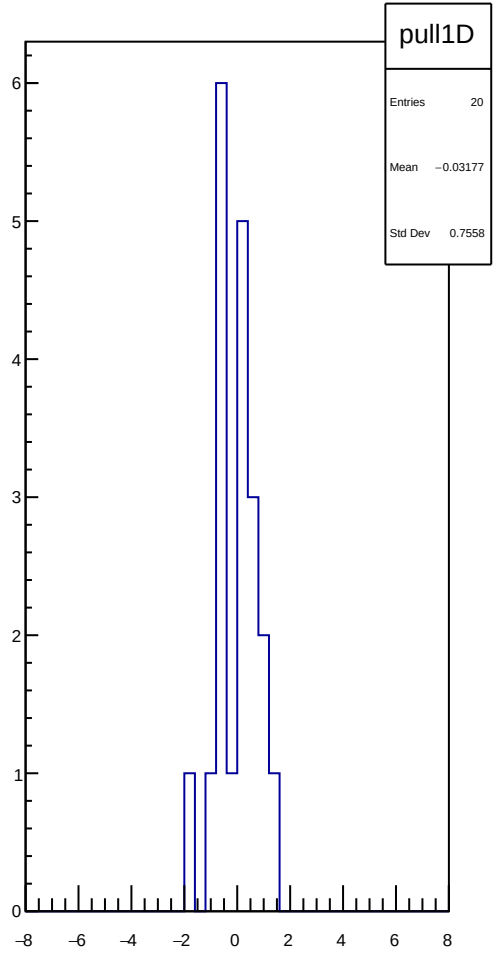

asym_atr2_dit_correction_rms vs run
χ² / ndf 347.4 / 19
p0 7896 ± 12.41
8200
8000
7800
7600
7400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

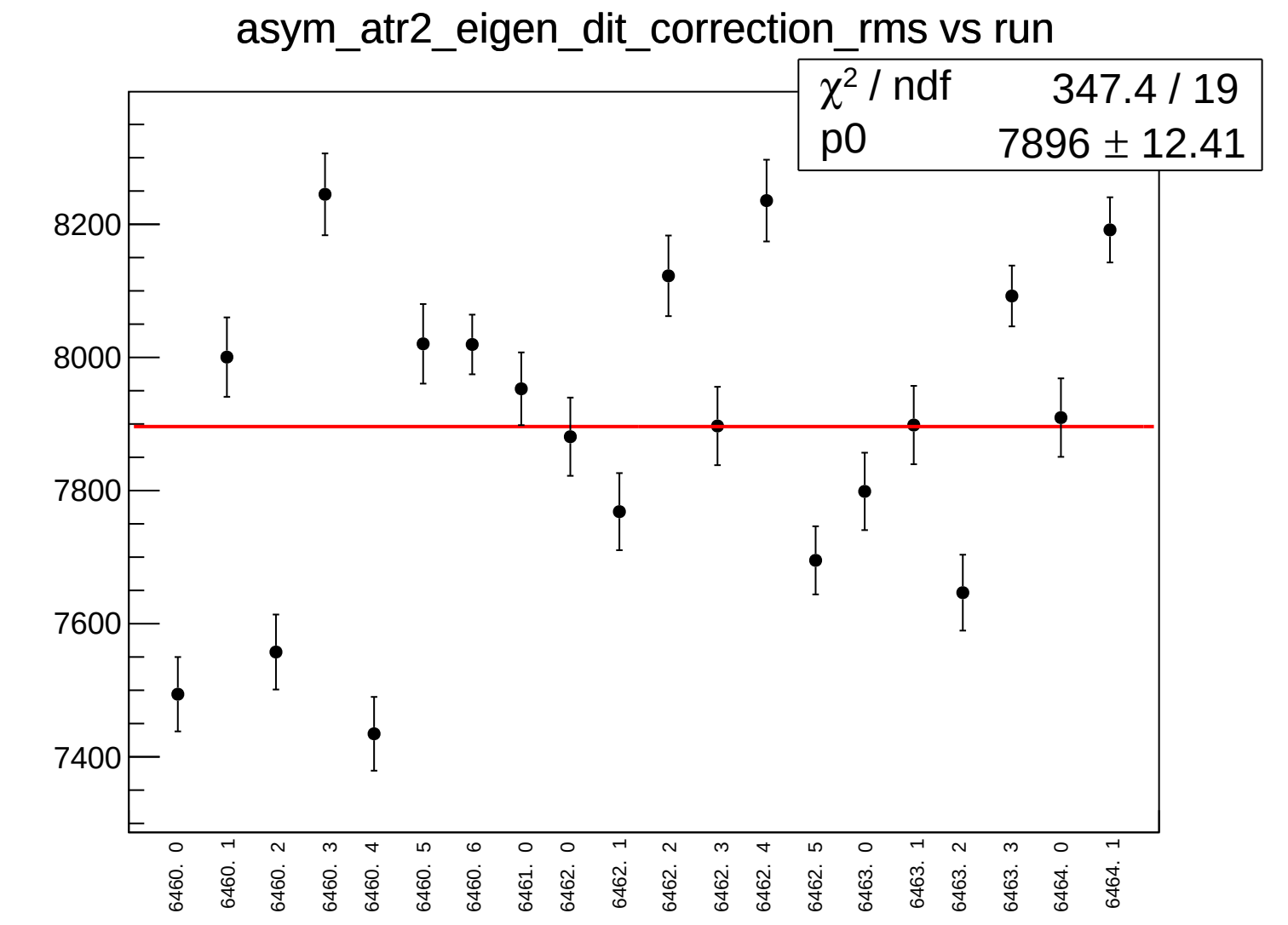

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 18.58 / 19
p0 7449 ± 5825
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

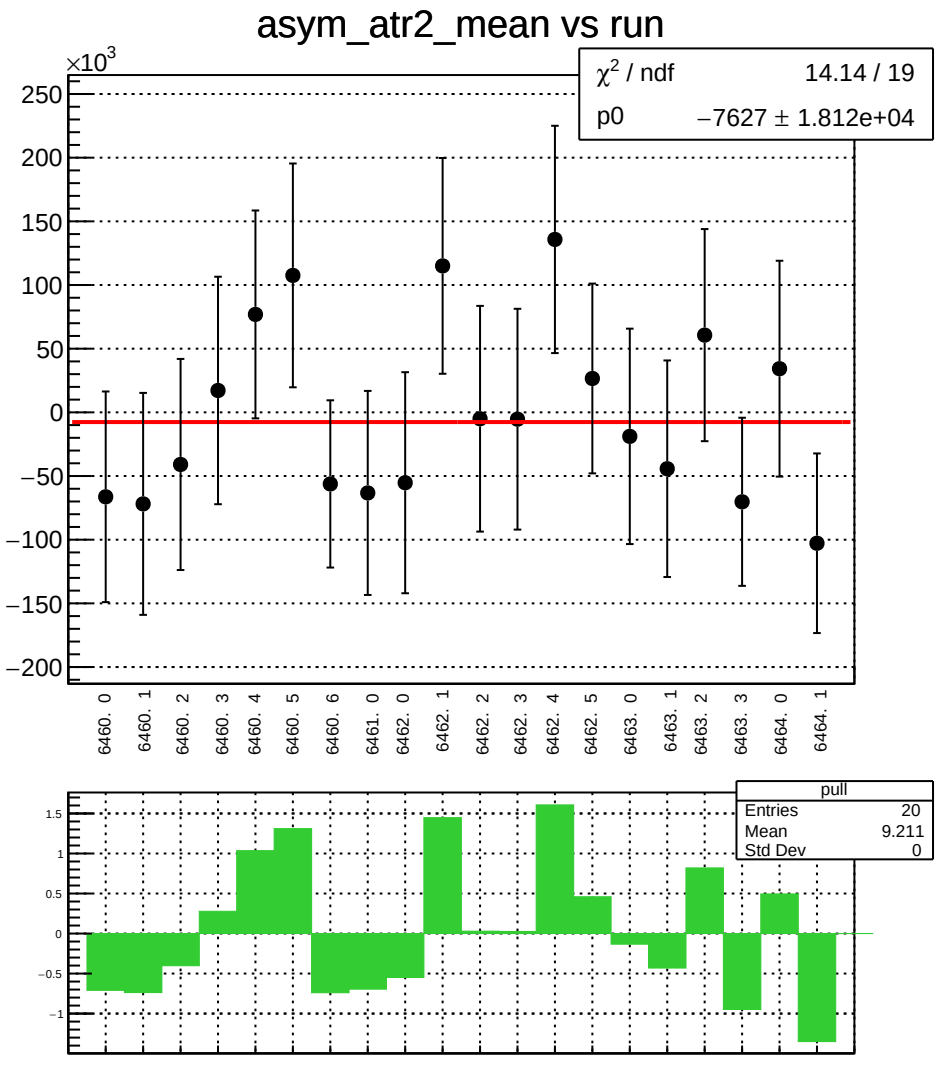

pull1D
Entries 20
Mean 0.03921
Std Dev 0.963
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

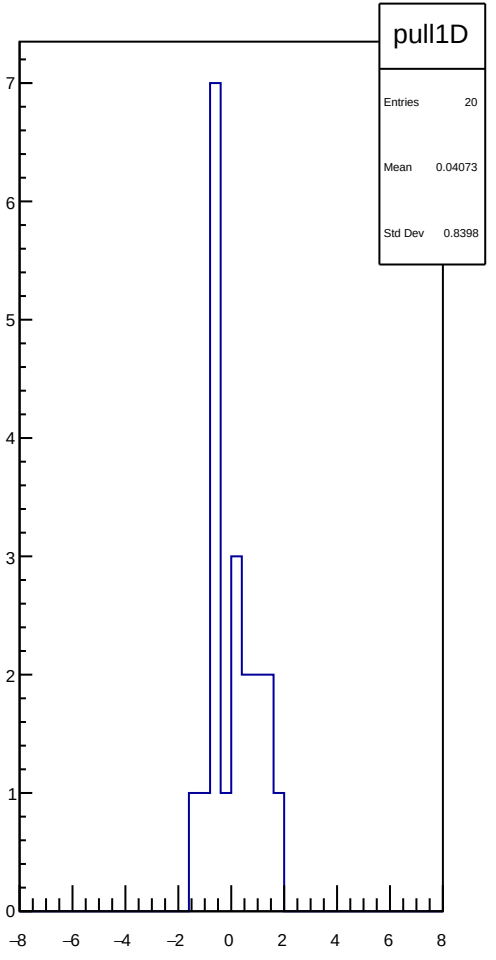

eigen_dit_asym_atr2_rms vs run
χ² / ndf 27.52 / 19
p0 2622 ± 4.119
2700
2680
2660
2640
2620
2600
2580
2560
2540
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

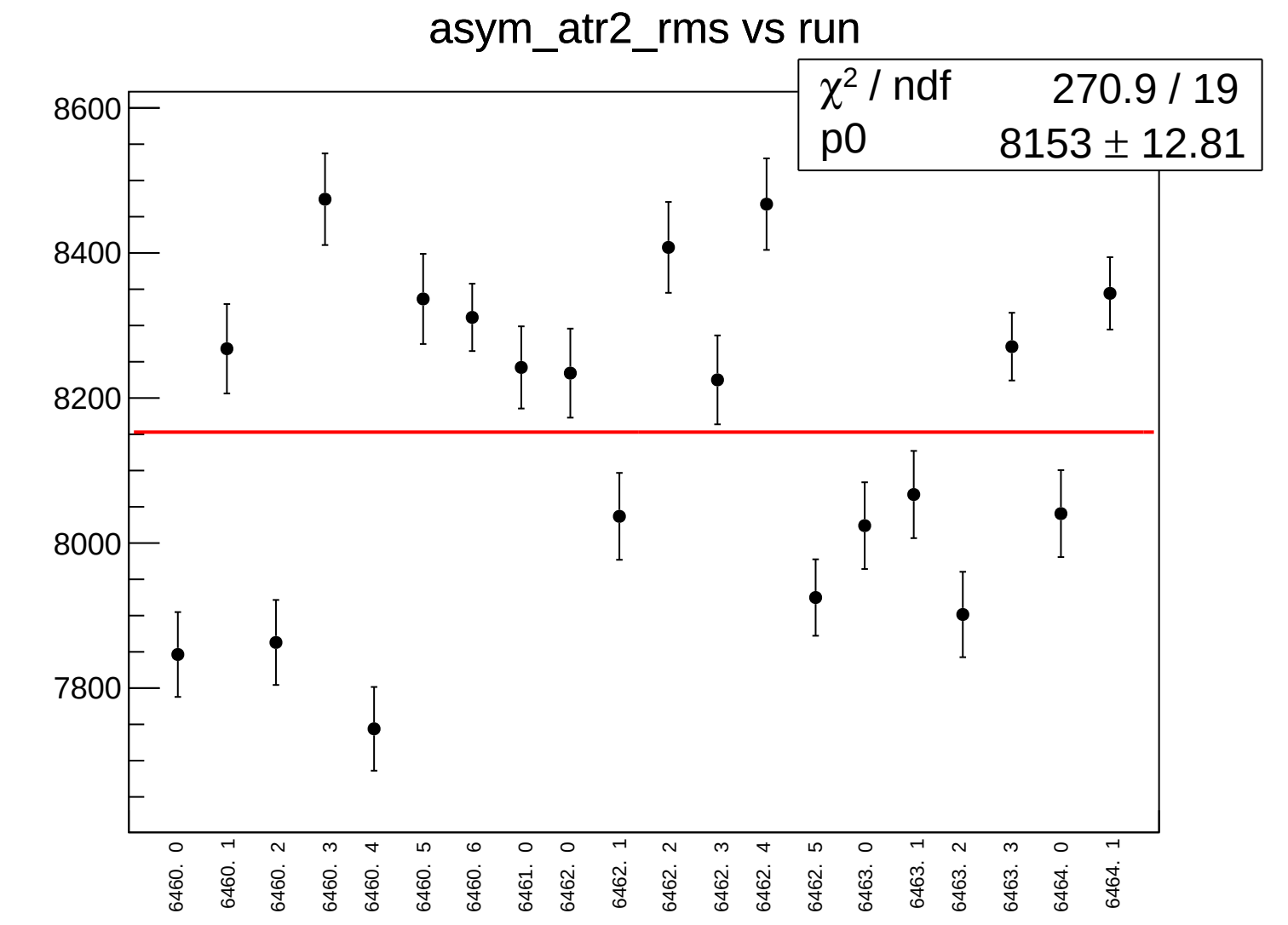

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 11.44 / 19
p0 1.554e+04 ± 1.755e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

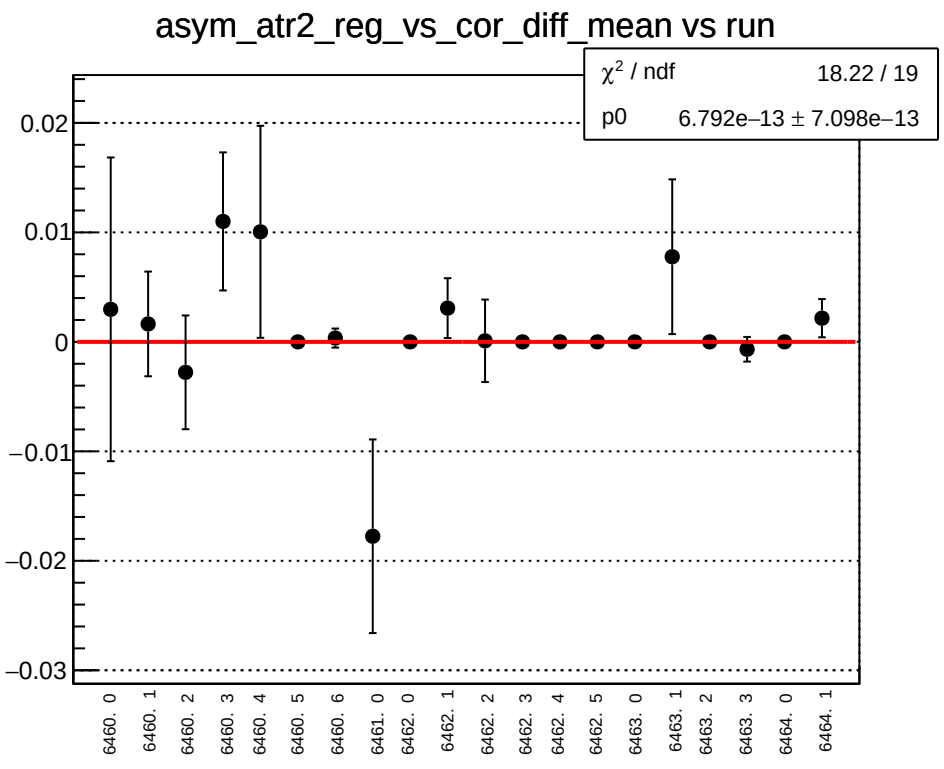

pull1D
Entries 20
Mean −0.03177
Std Dev 0.7558
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

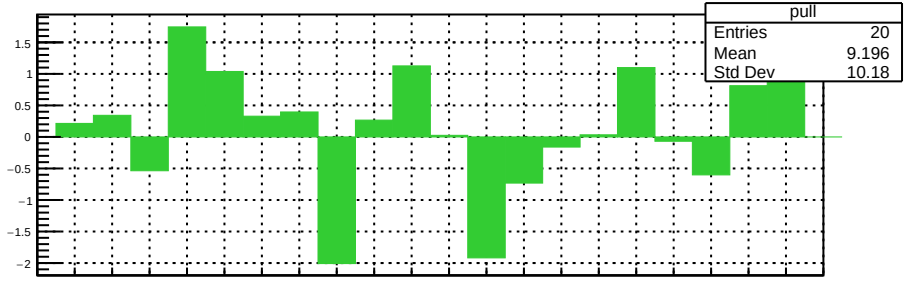

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 347.4 / 19
p0 7896 ± 12.41
8200
8000
7800
7600
7400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

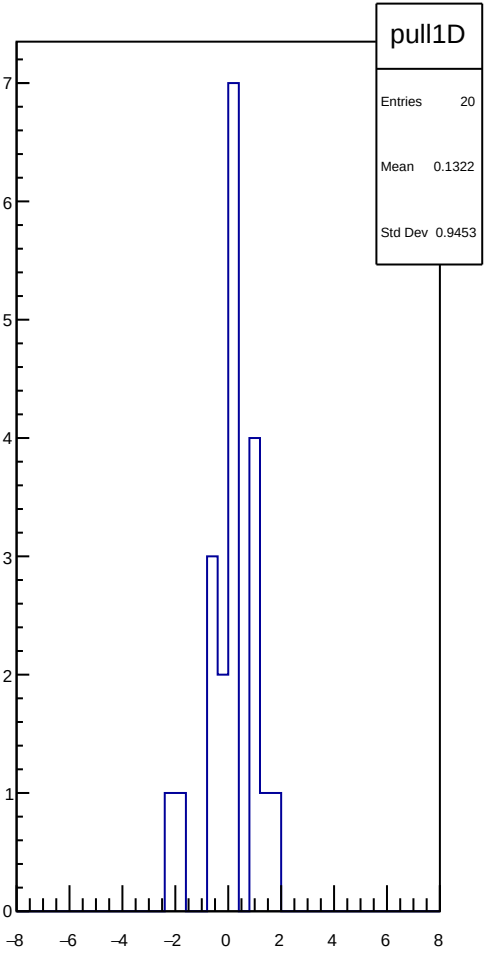

asym_atr2_mean vs run
×10^3
χ² / ndf 14.14 / 19
p0 −7627 ± 1.812e+04
250
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.211
Std Dev 0
1.5
1
0.5
0
−0.5
−1

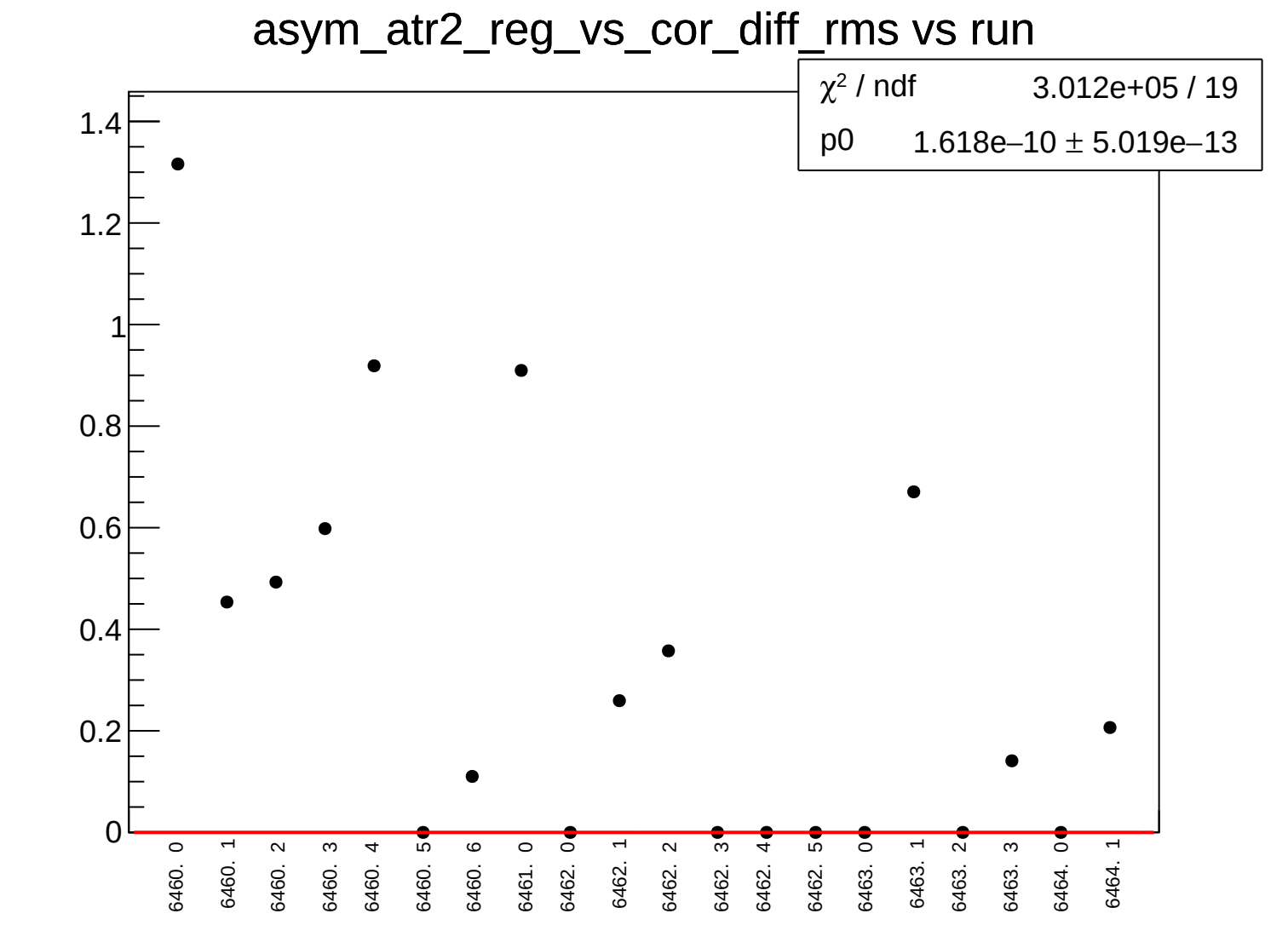

pull1D
Entries 20
Mean 0.04073
Std Dev 0.8398
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

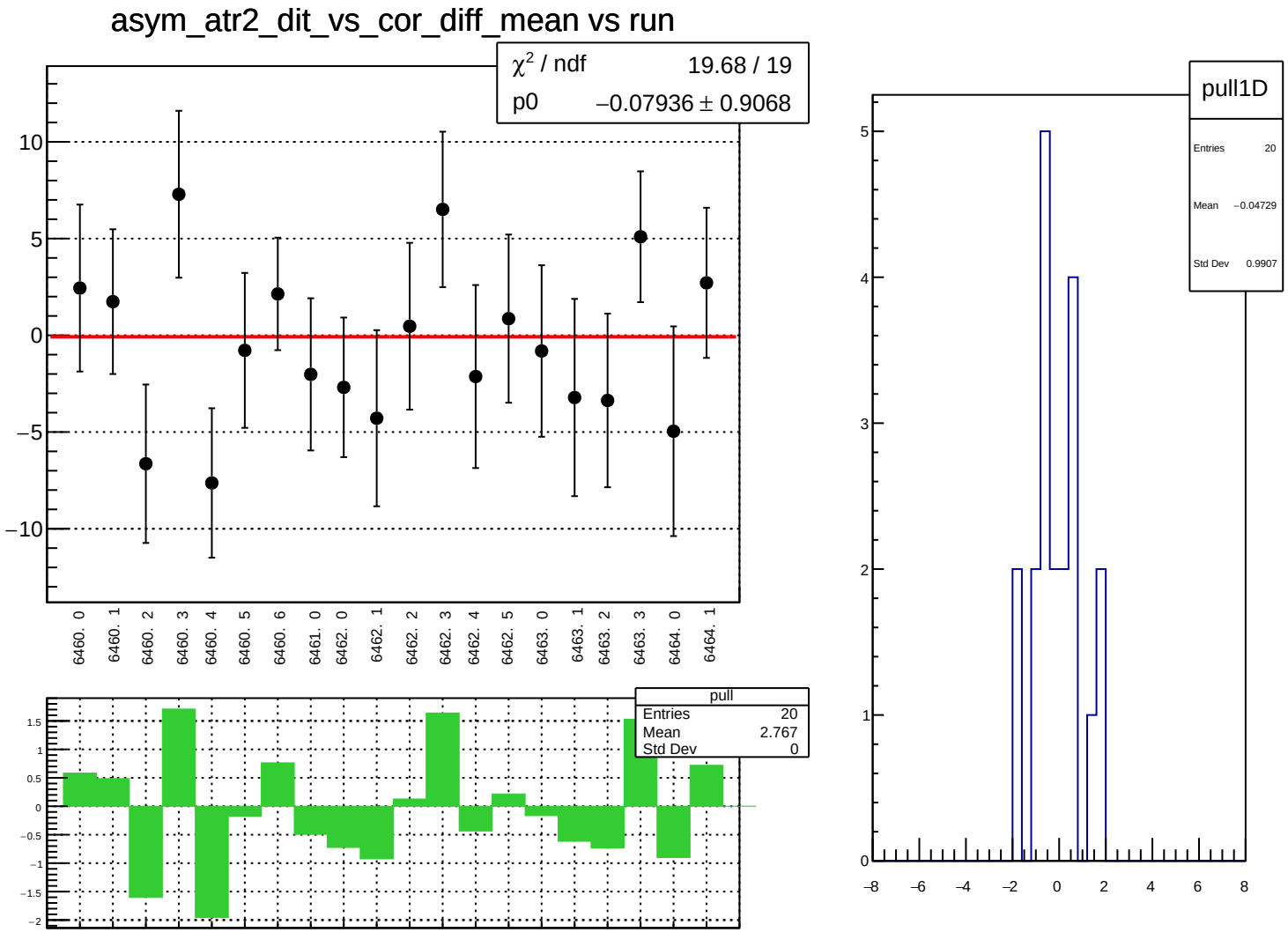

asym_atr2_rms vs run
χ² / ndf 270.9 / 19
p0 8153 ± 12.81
8600
8400
8200
8000
7800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

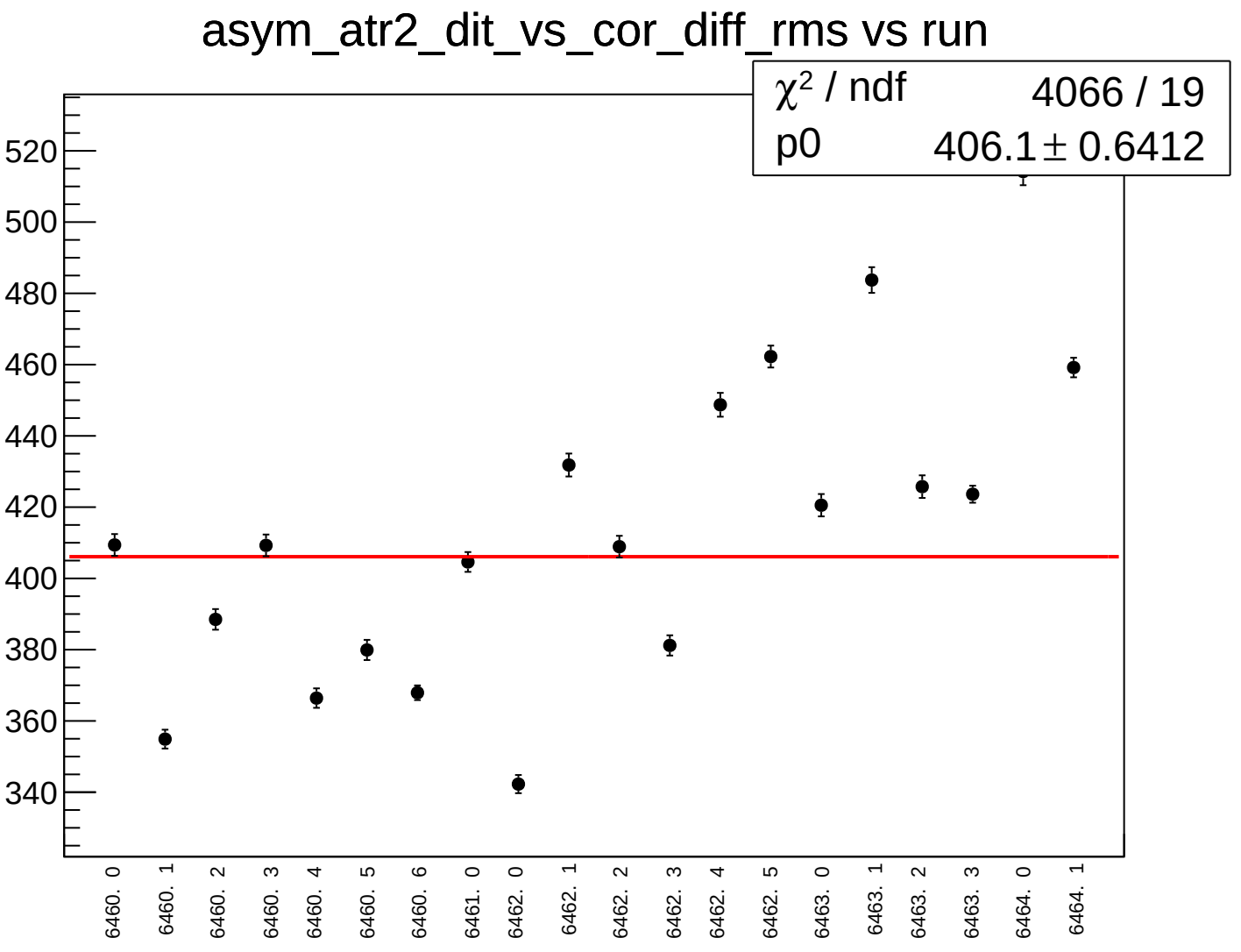

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 18.22 / 19
p0 6.792e−13 ± 7.098e−13
0.02
0.01
0
−0.01
−0.02
−0.03
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

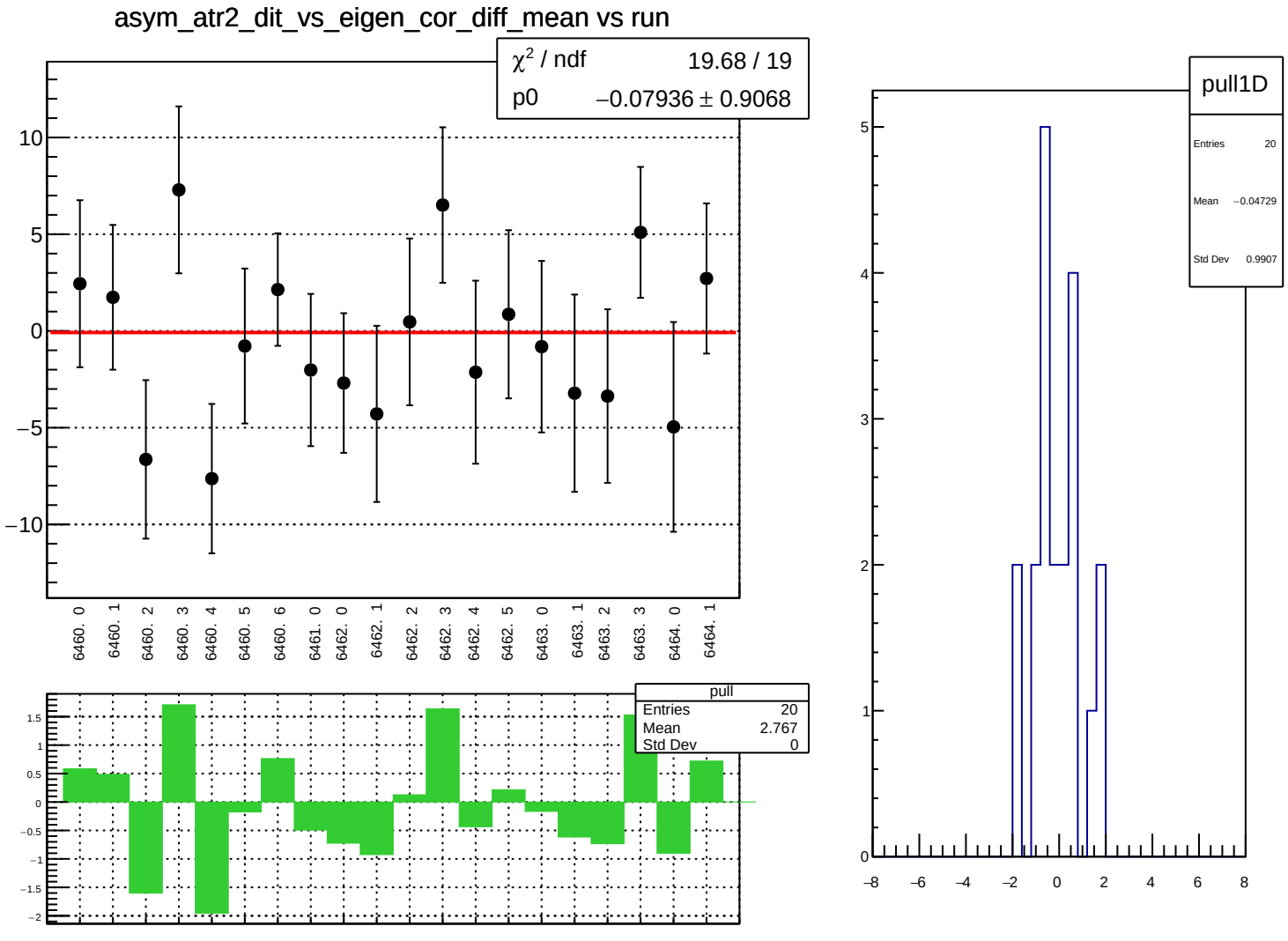

pull
Entries 20
Mean 9.196
Std Dev 10.18
1.5
1
0.5
0
−0.5
−1
−1.5
−2

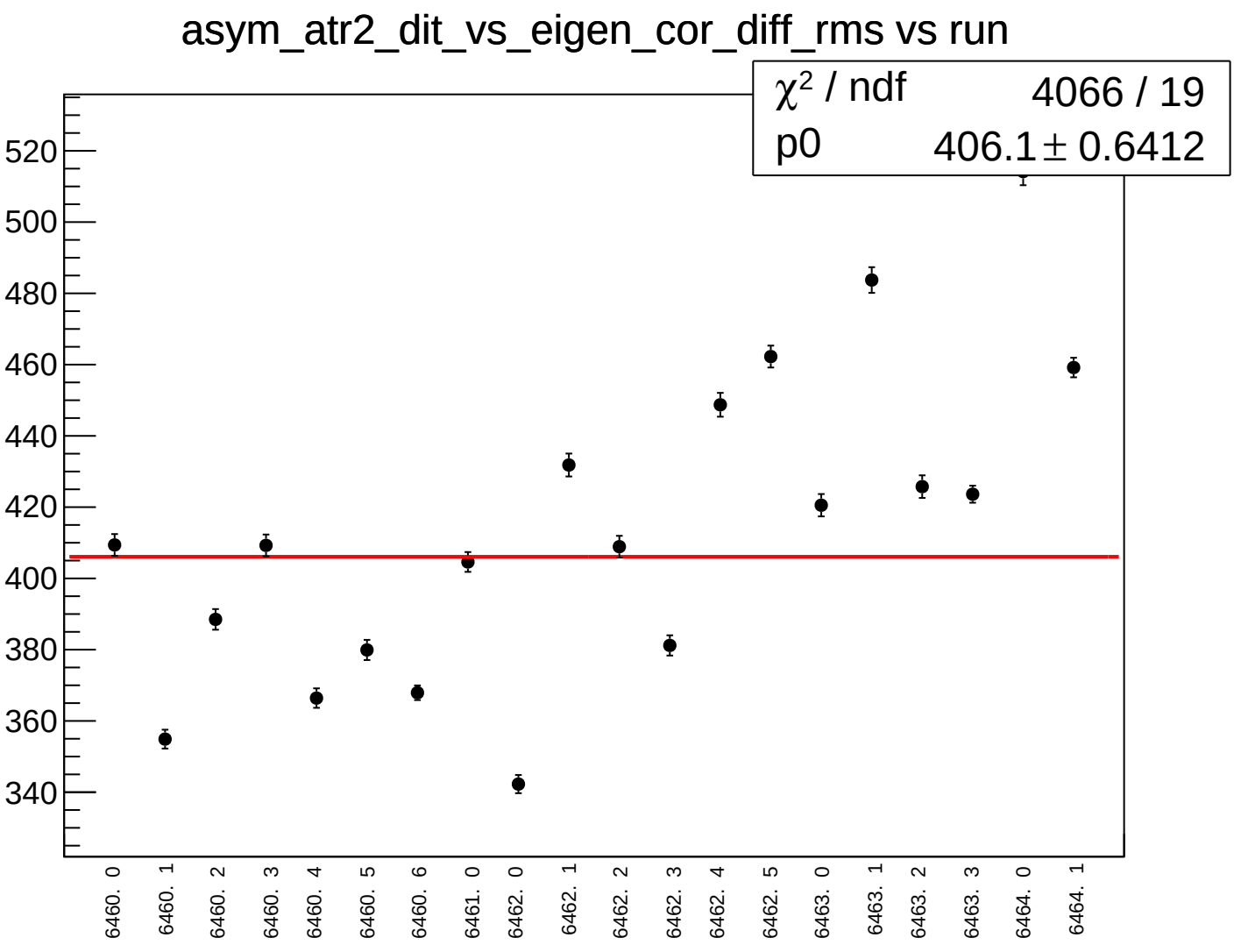

pull1D
Entries 20
Mean 0.1322
Std Dev 0.9453
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

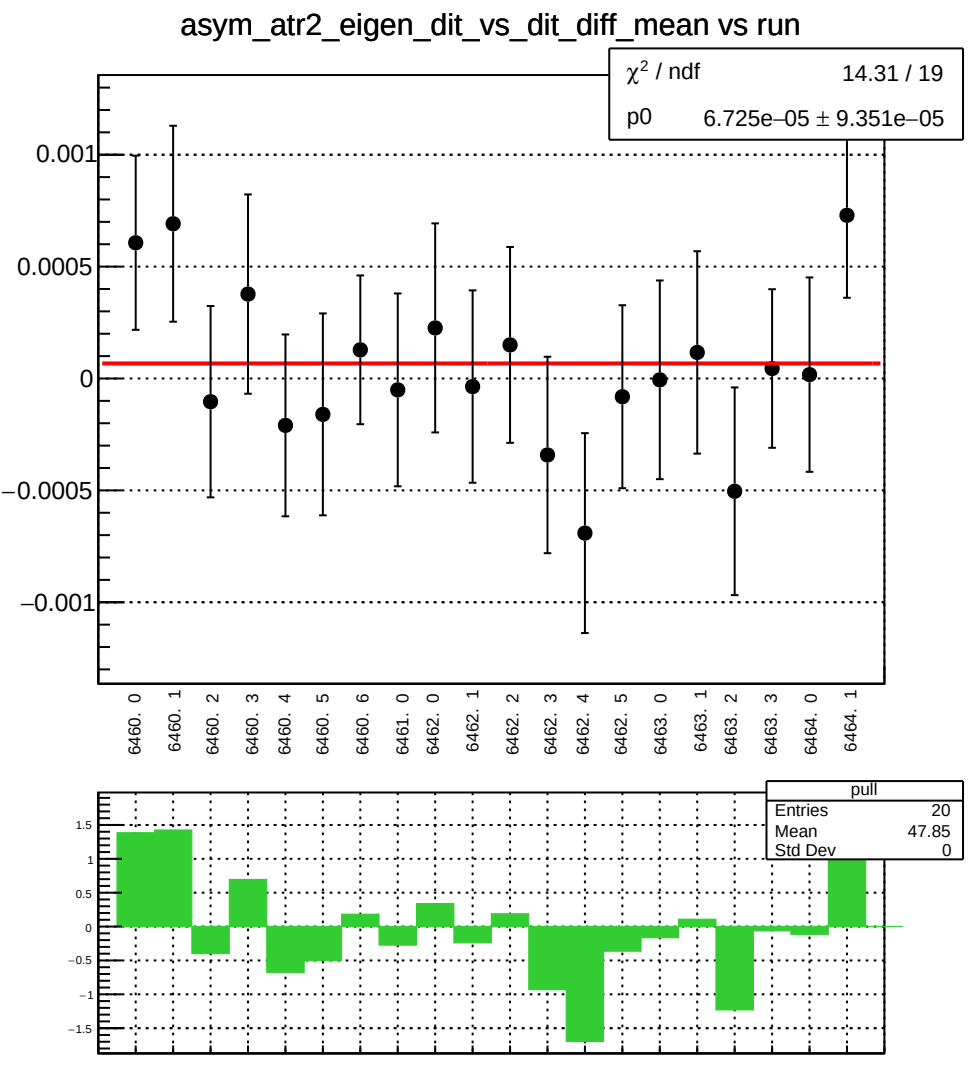

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 3.012e+05 / 19
p0 1.618e−10 ± 5.019e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

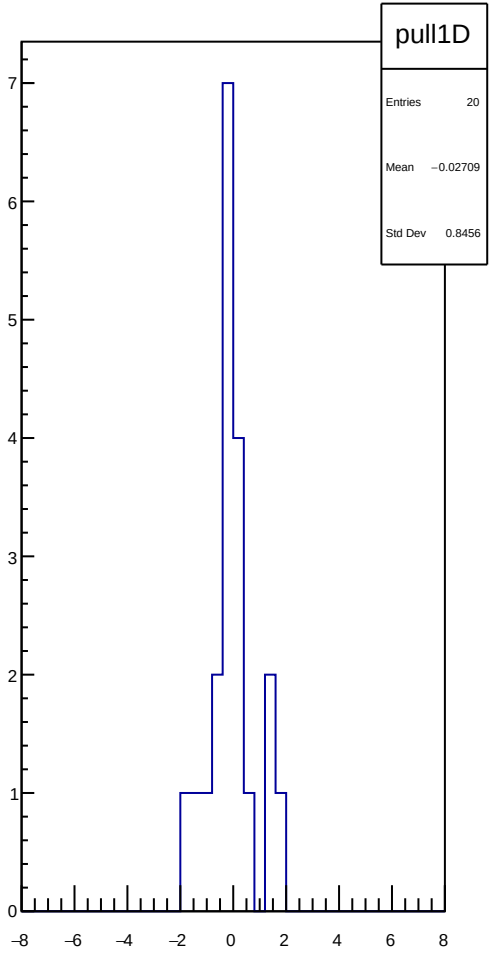

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 19.68 / 19
p0 −0.07936 ± 0.9068
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.767
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.04729
Std Dev 0.9907
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

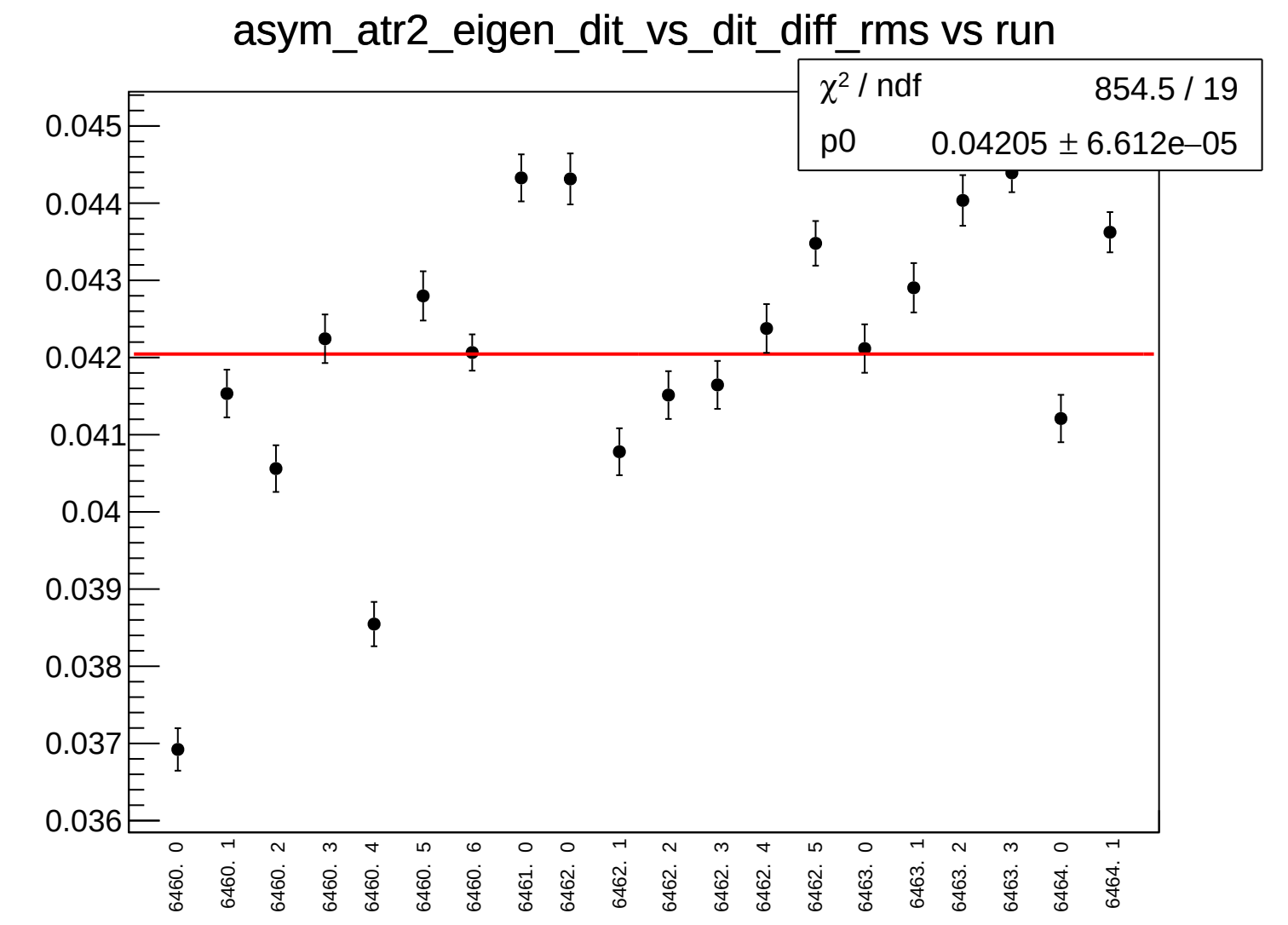

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 4066 / 19
p0 406.1 ± 0.6412
520
500
480
460
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

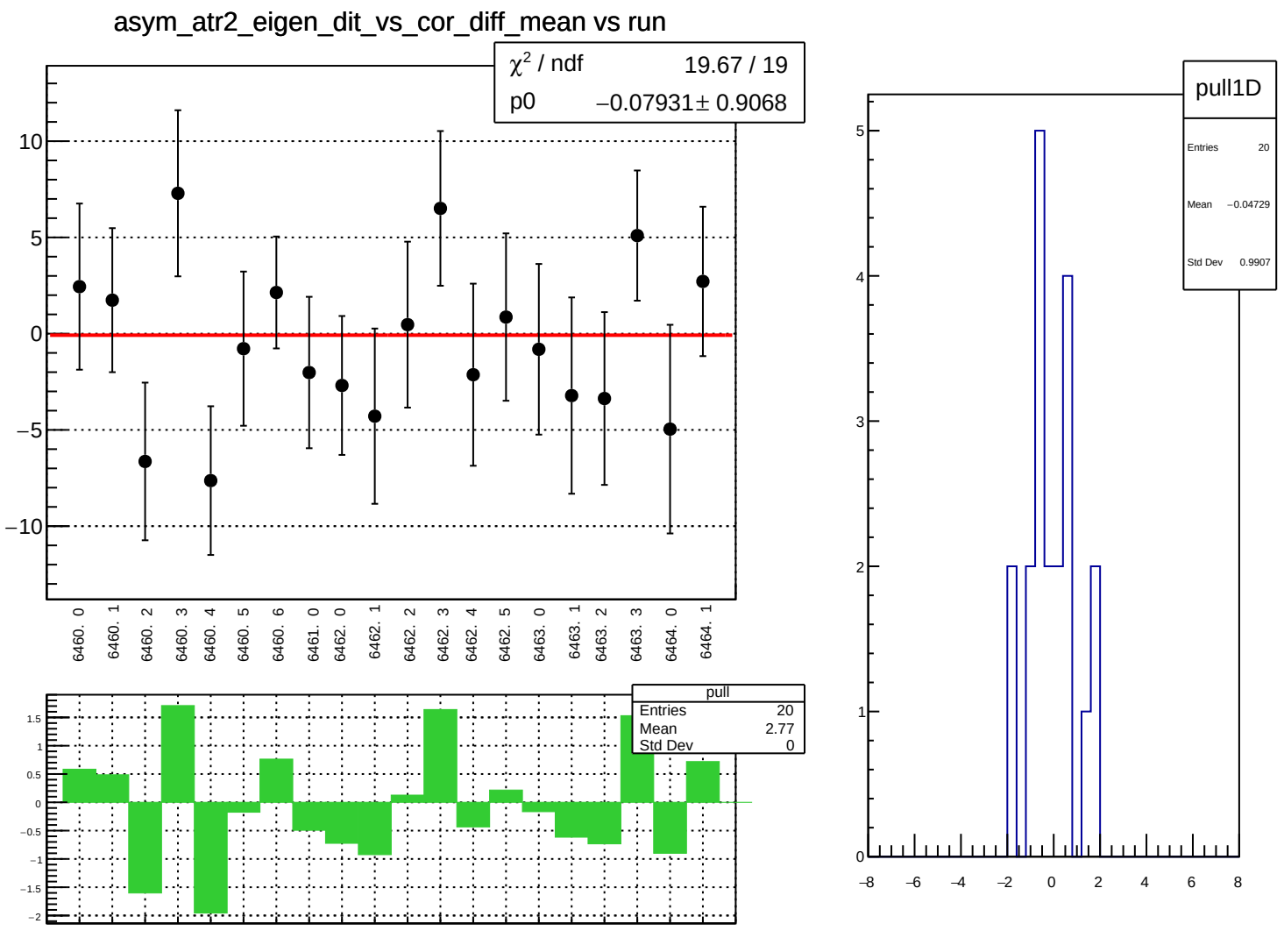

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.68 / 19
p0 −0.07936 ± 0.9068
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.767
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.04729
Std Dev 0.9907
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

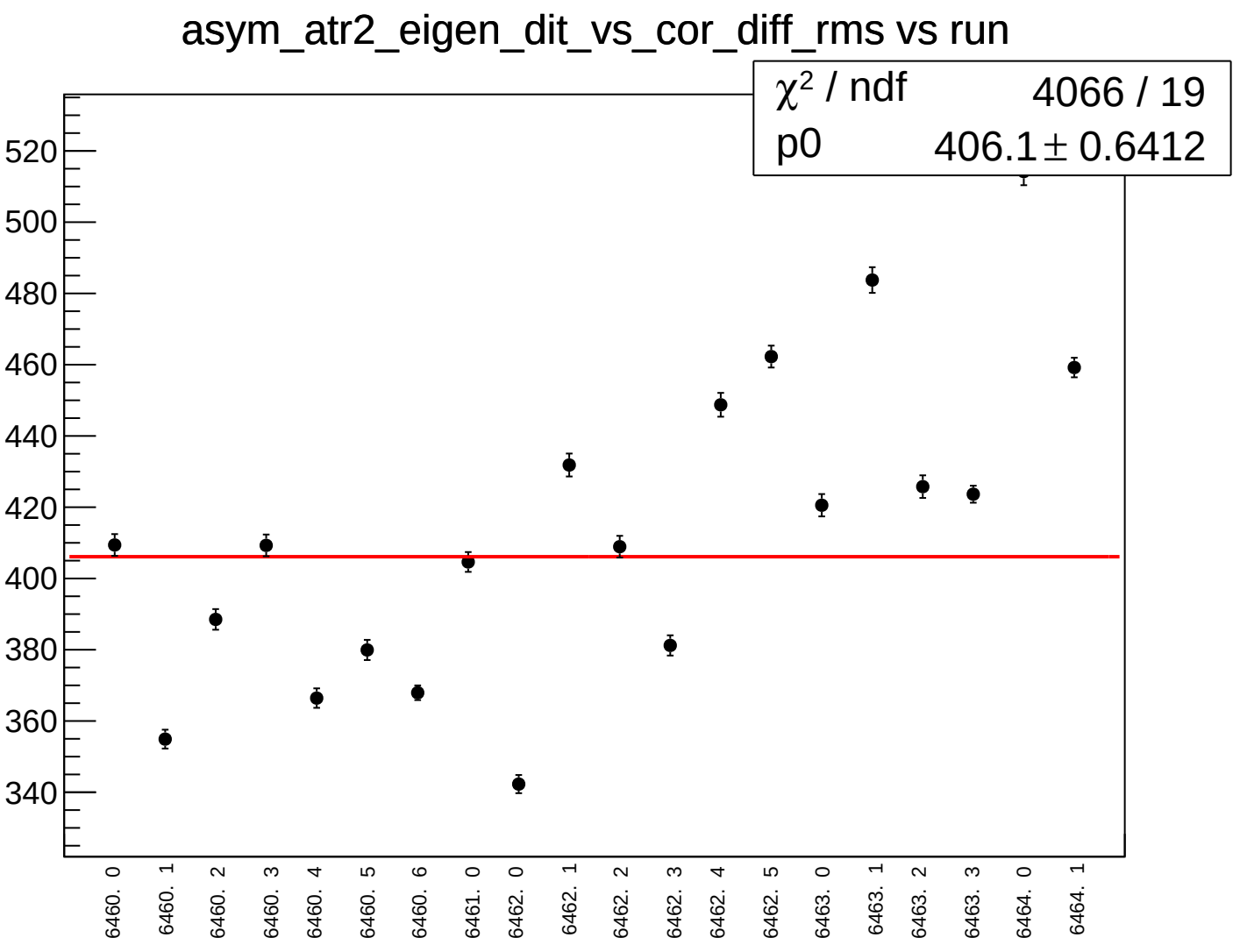

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4066 / 19
p0 406.1 ± 0.6412
520
500
480
460
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

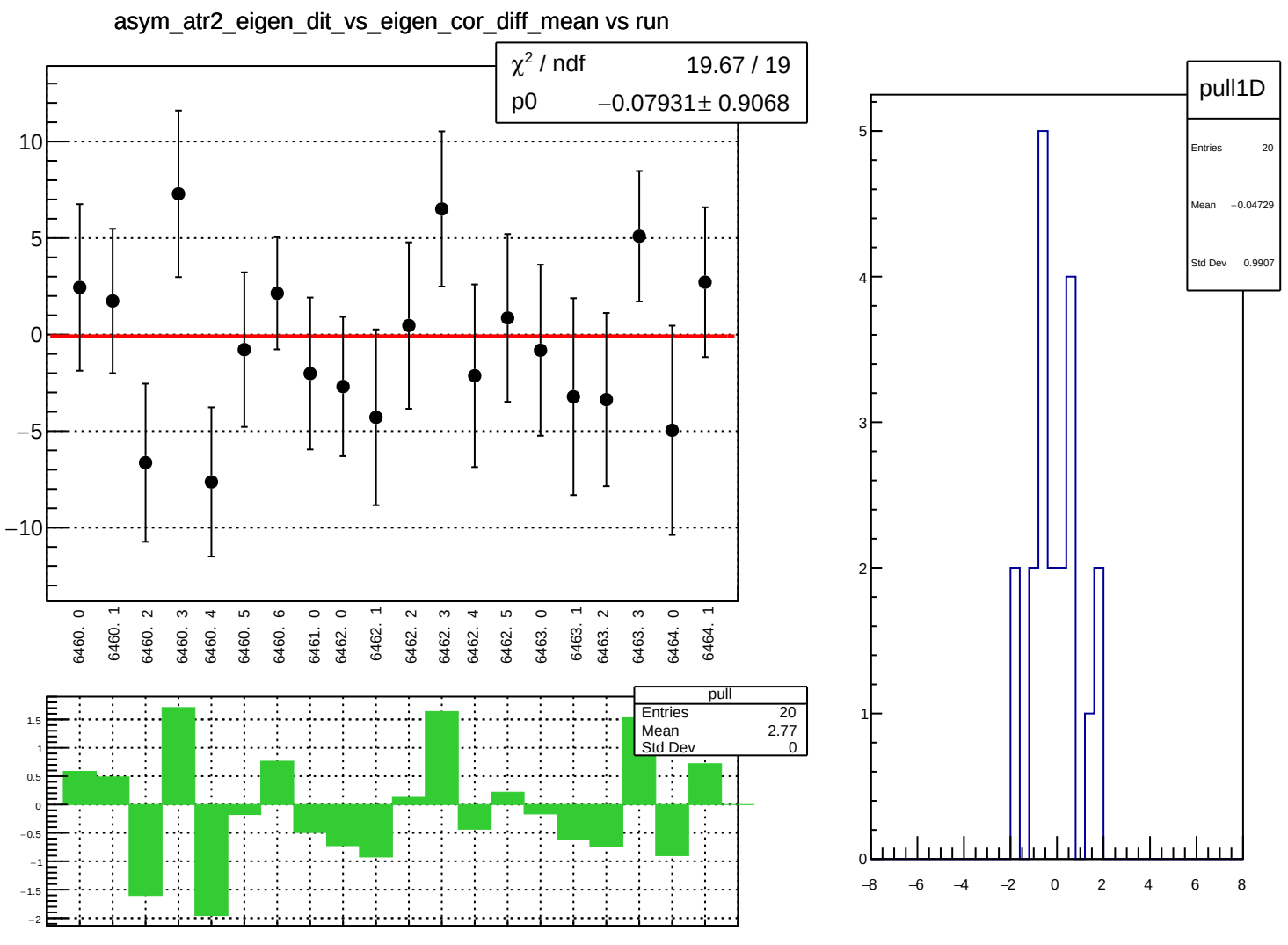

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 14.31 / 19
p0 6.725e−05 ± 9.351e−05
0.001
0.0005
0
−0.0005
−0.001
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 47.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

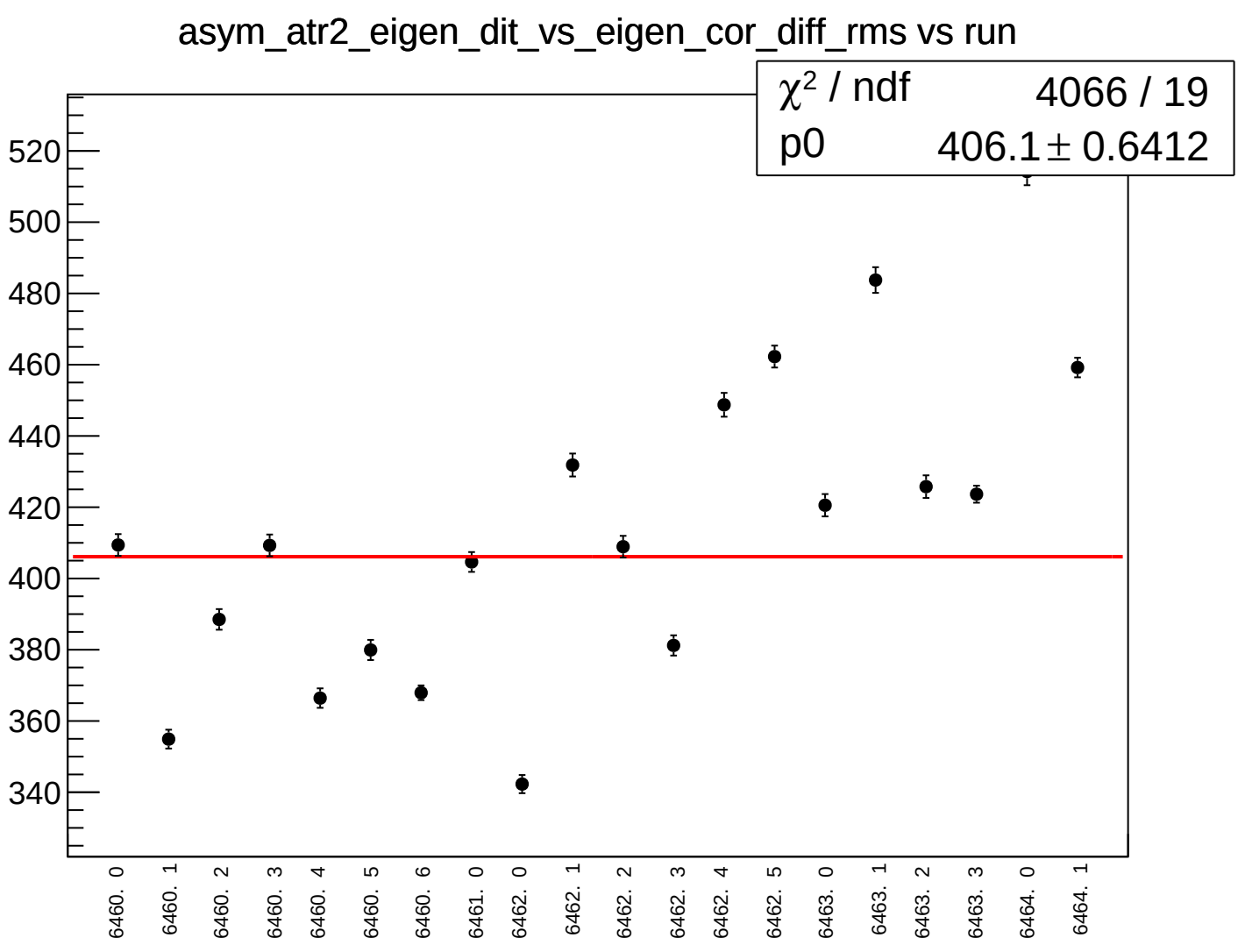

pull1D
Entries 20
Mean −0.02709
Std Dev 0.8456
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

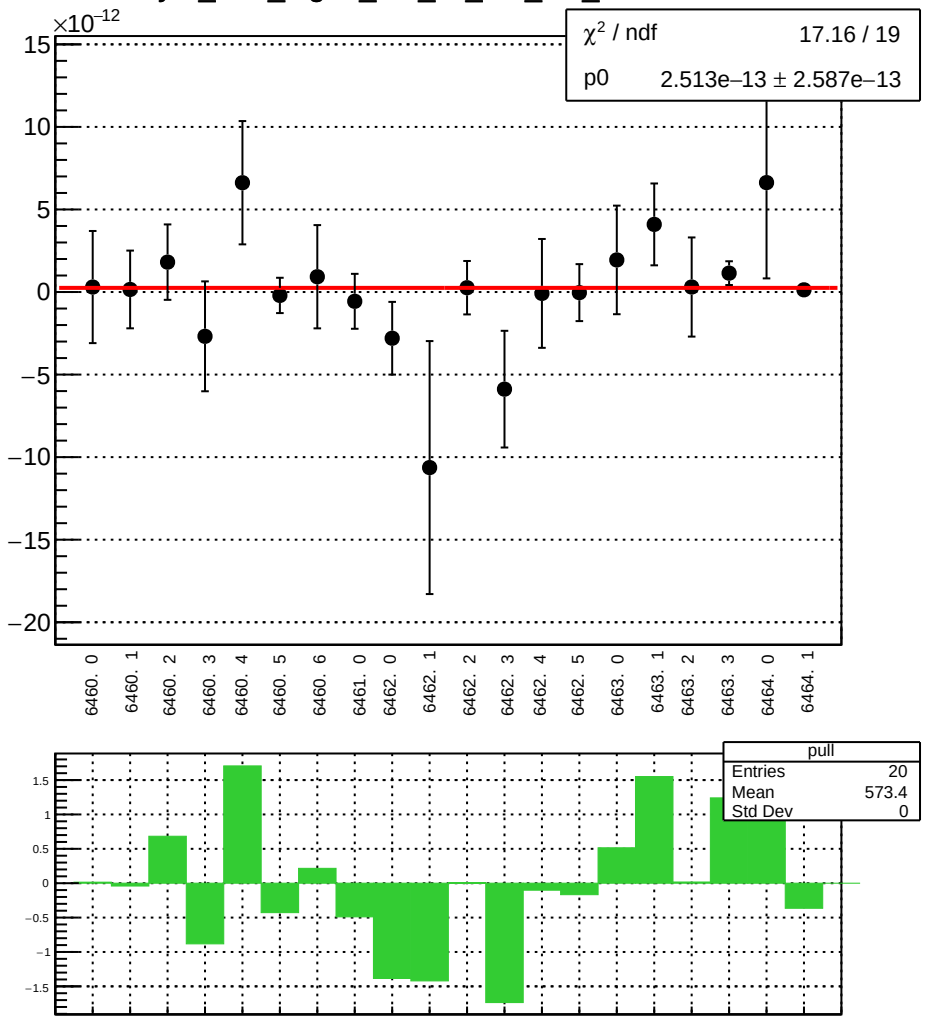

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 854.5 / 19
p0 0.04205 ± 6.612e–05
0.045
0.044
0.043
0.042
0.041
0.04
0.039
0.038
0.037
0.036
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

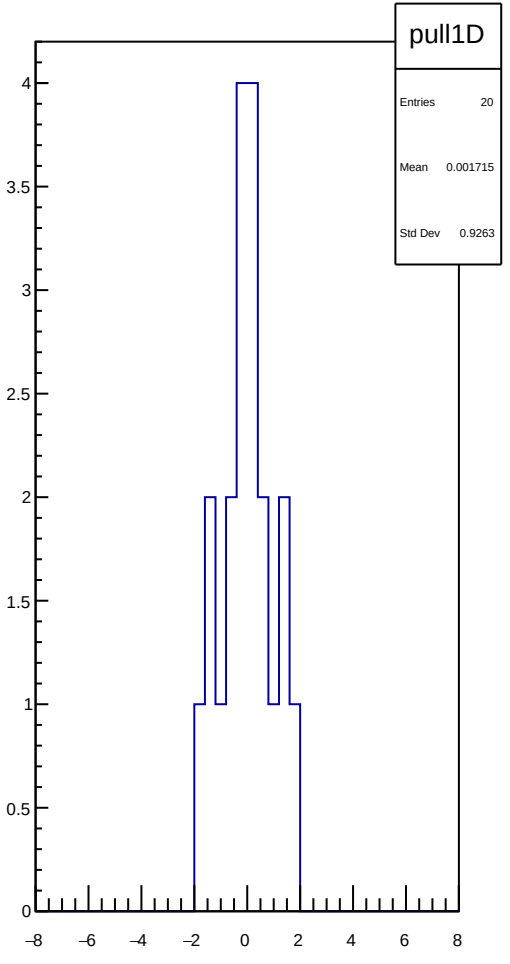

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.67 / 19
p0 −0.07931 ± 0.9068
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.04729
Std Dev 0.9907
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

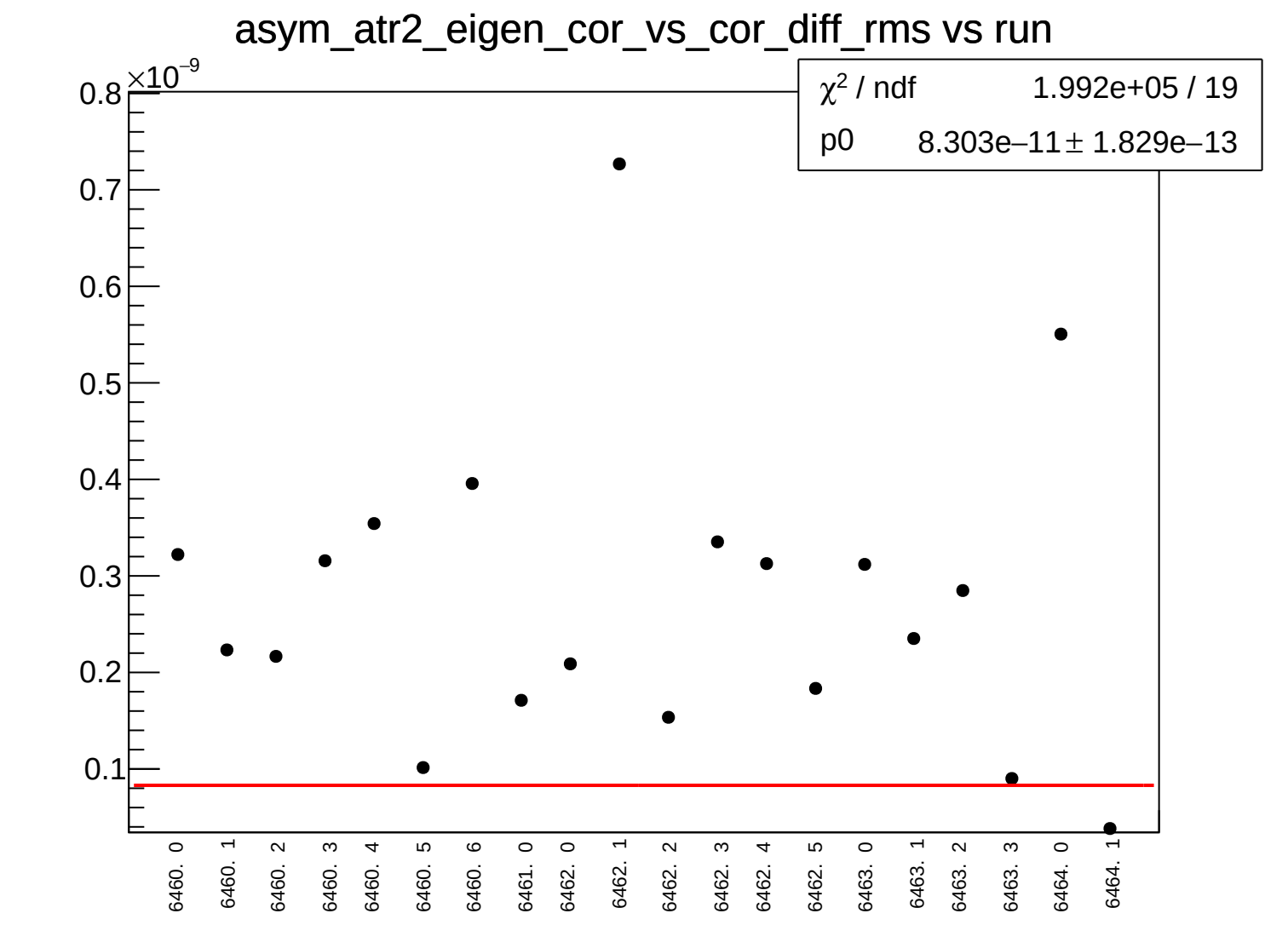

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4066 / 19
p0 406.1 ± 0.6412
520
500
480
460
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

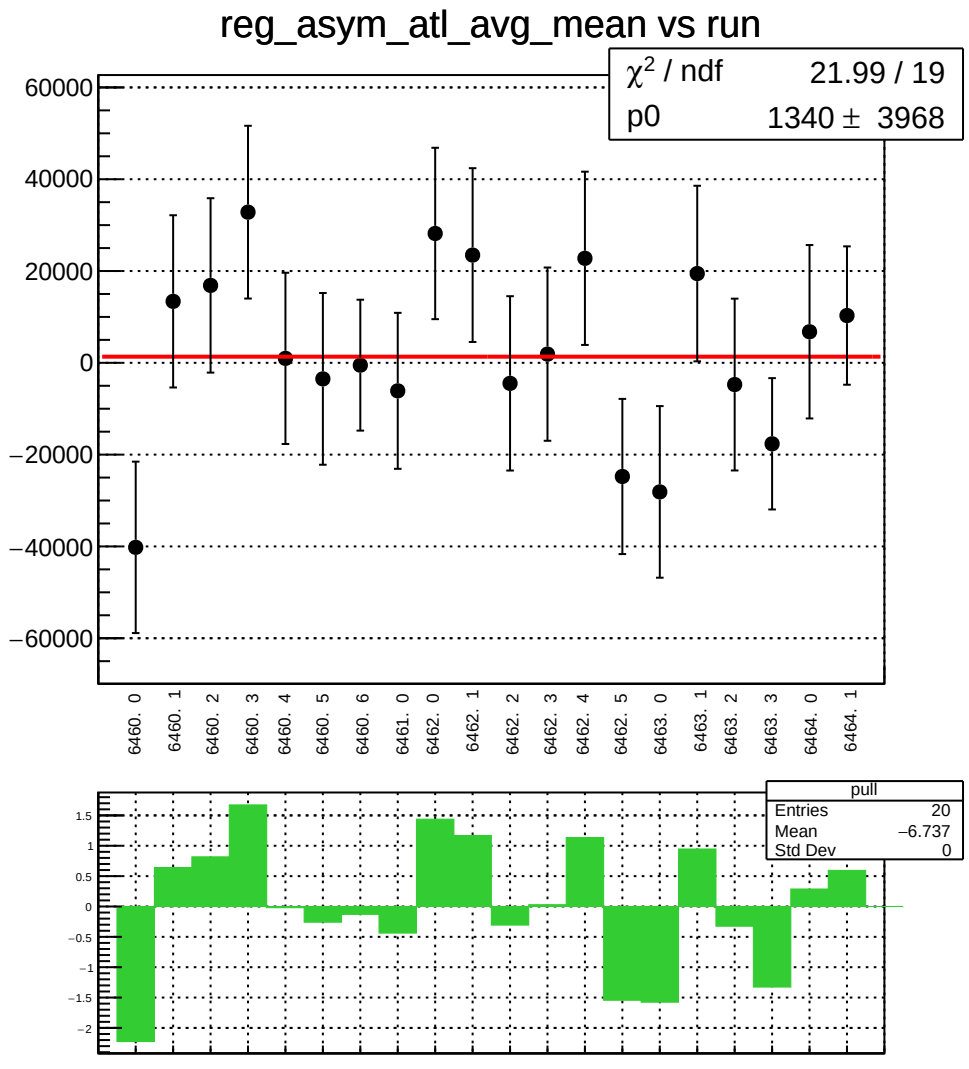

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.67 / 19
p0 −0.07931 ± 0.9068
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.04729
Std Dev 0.9907
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

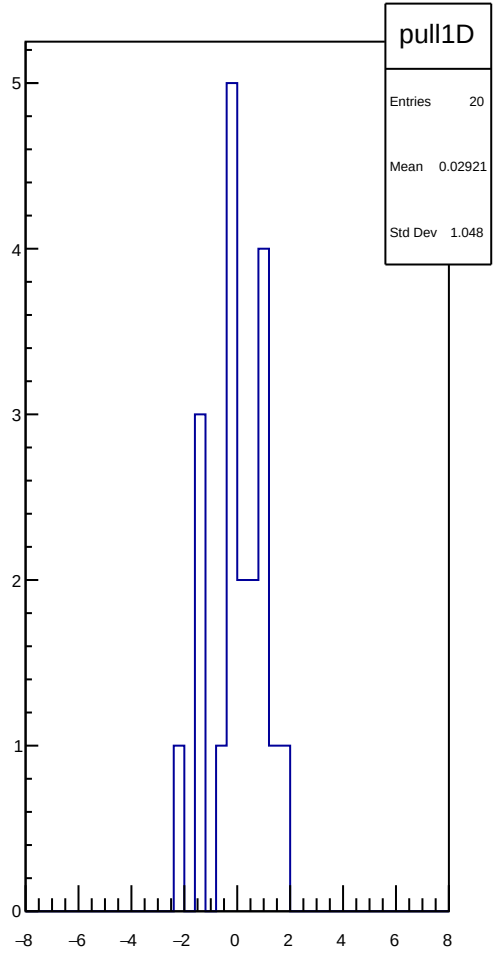

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4066 / 19
p0 406.1 ± 0.6412
520
500
480
460
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

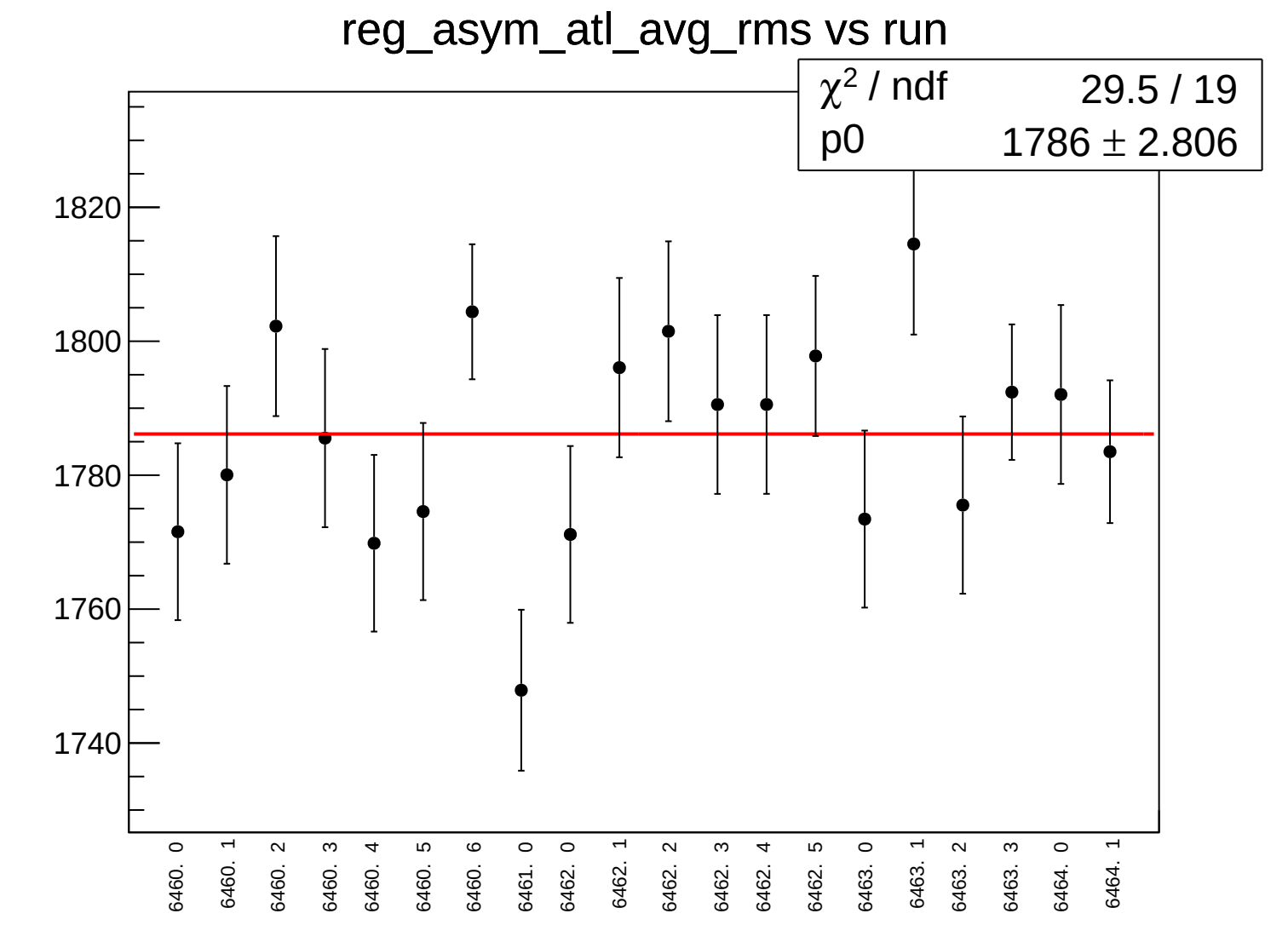

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.16 / 19
p0 2.513e−13 ± 2.587e−13
15
10
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 573.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

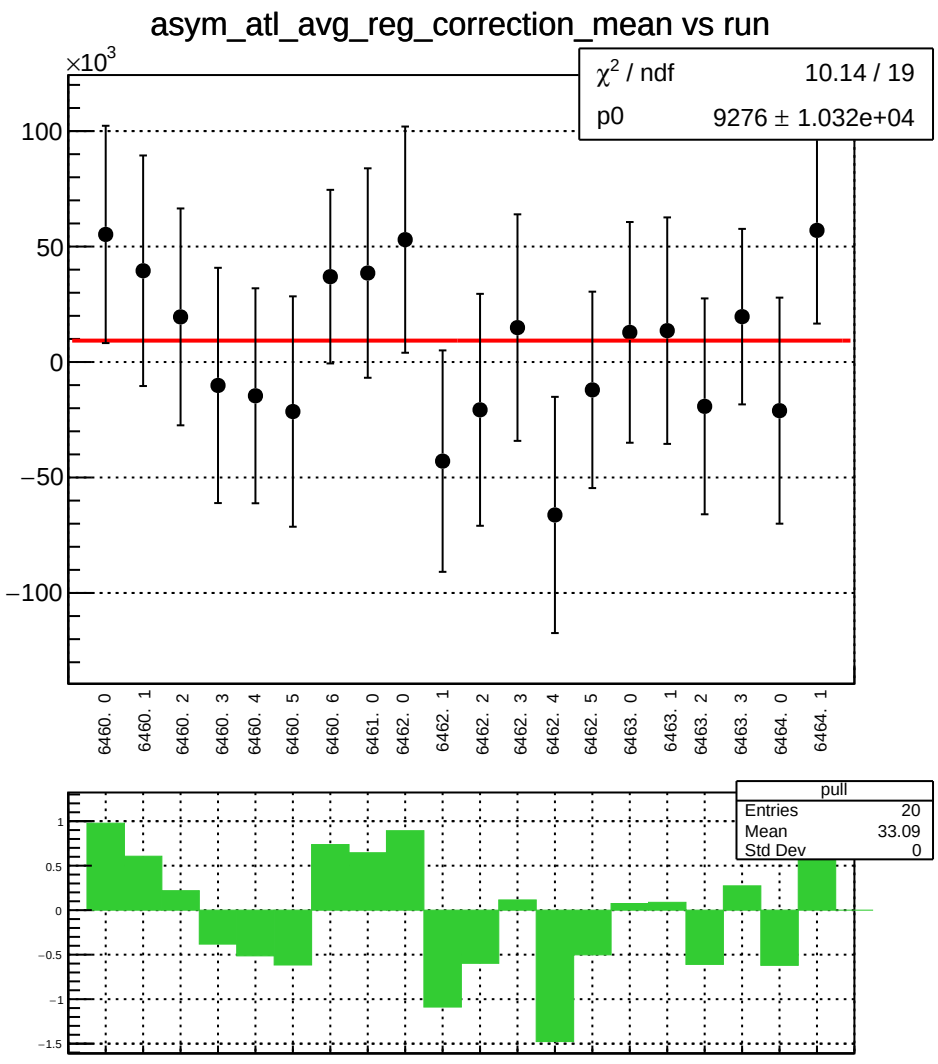

pull1D
Entries 20
Mean 0.001715
Std Dev 0.9263
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

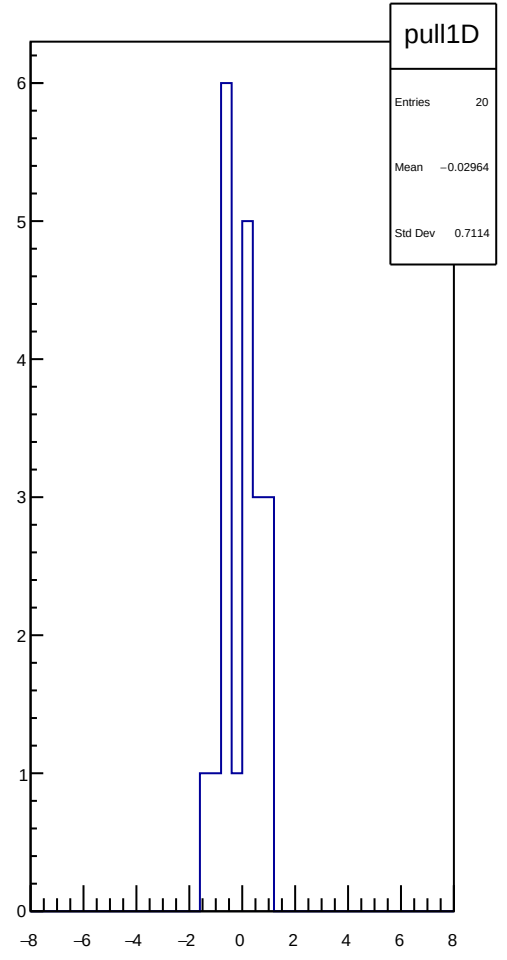

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 1.992e+05 / 19
p0 8.303e−11 ± 1.829e−13
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

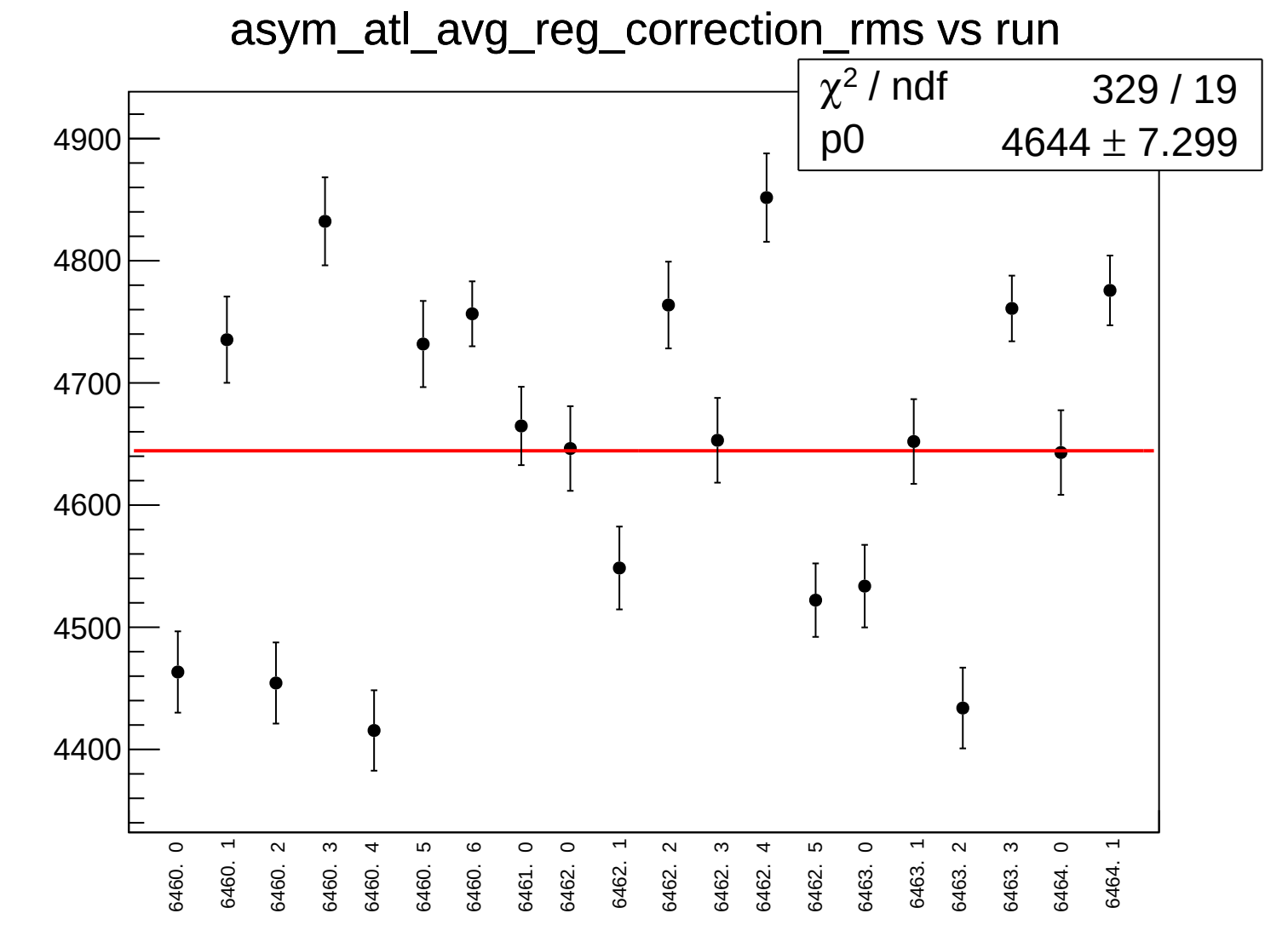

reg_asym_atl_avg_mean vs run
χ² / ndf 21.99 / 19
p0 1340 ± 3968
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.737
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

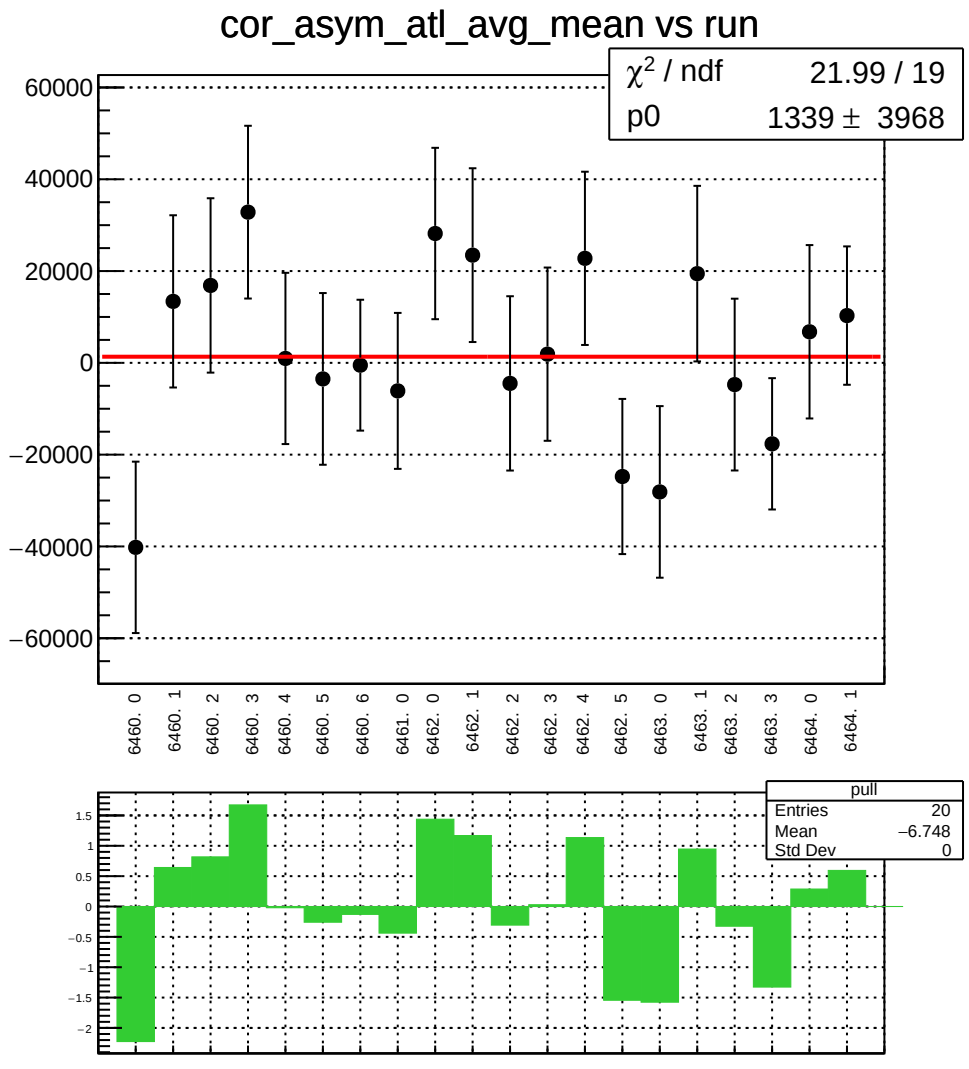

pull1D
Entries 20
Mean 0.02921
Std Dev 1.048
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

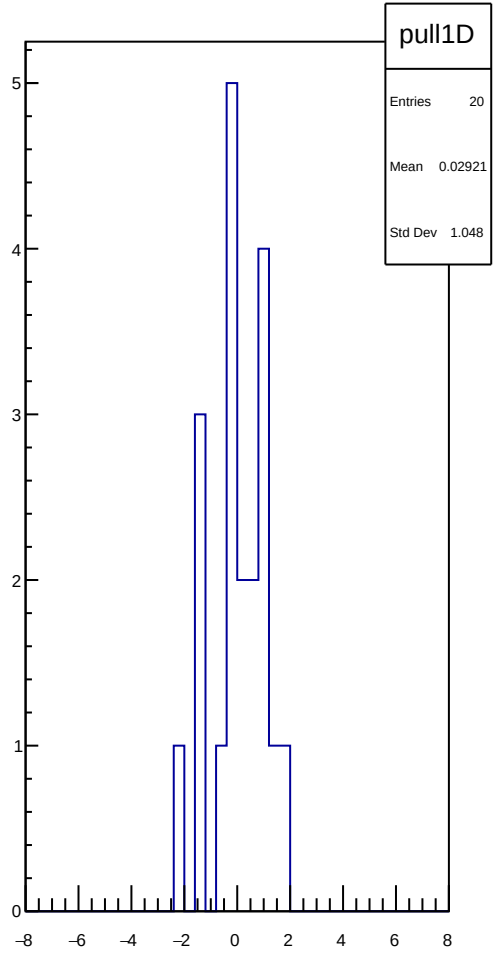

reg_asym_atl_avg_rms vs run
χ² / ndf 29.5 / 19
p0 1786 ± 2.806
1820
1800
1780
1760
1740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

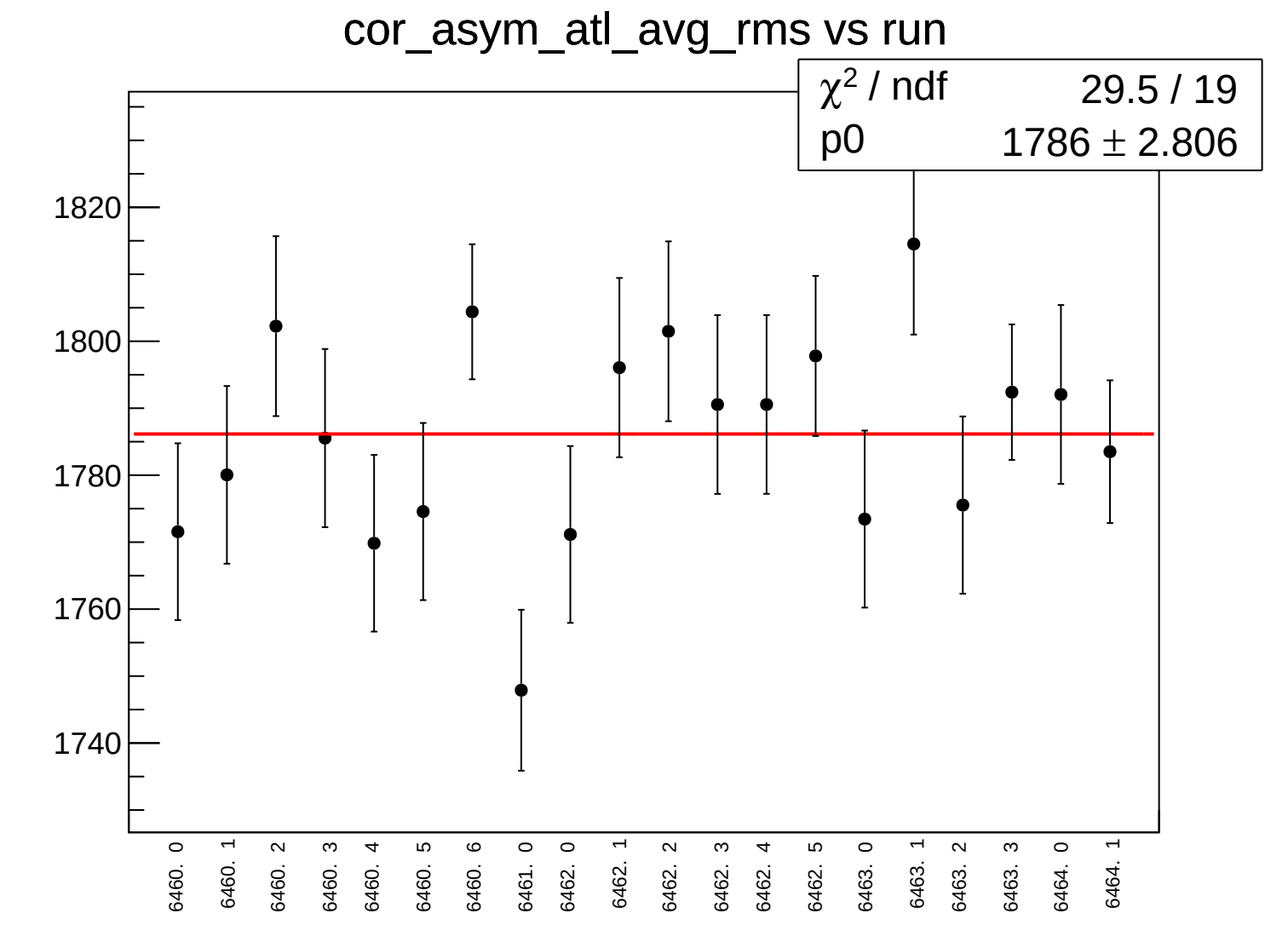

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 10.14 / 19
p0 9276 ± 1.032e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.09
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

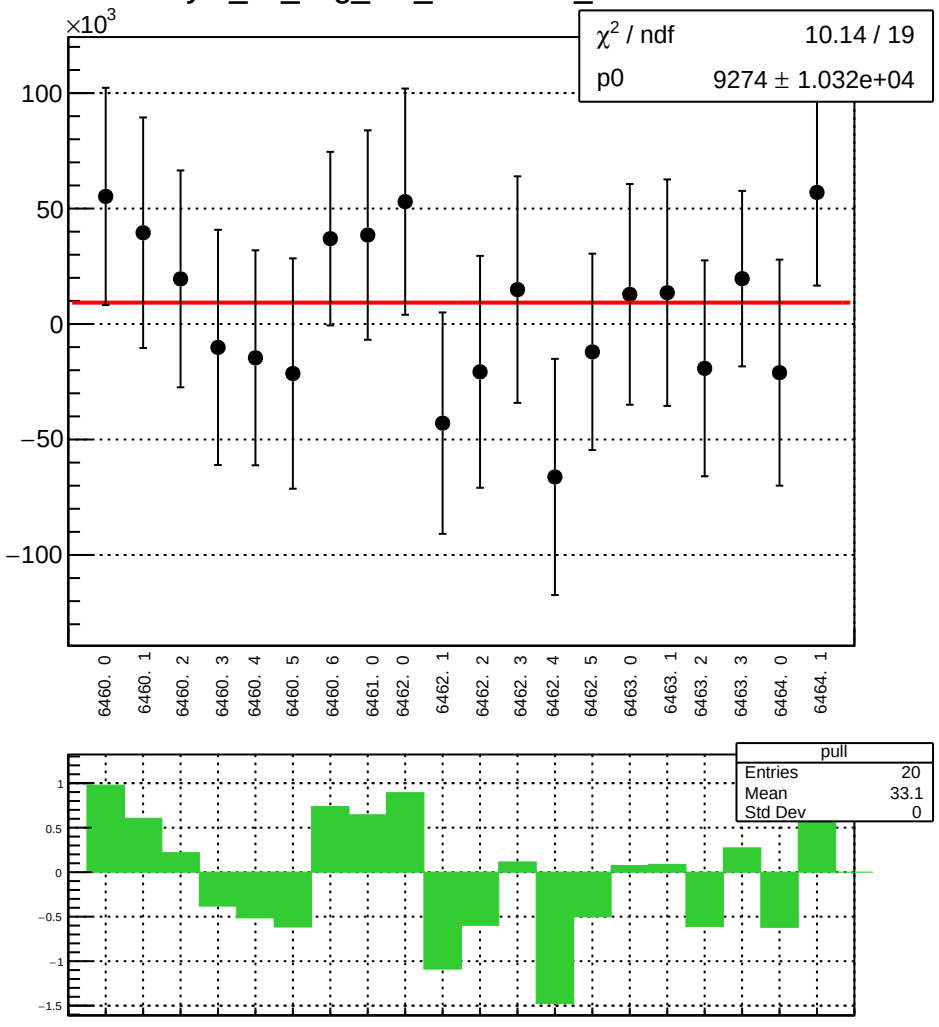

pull1D
Entries 20
Mean −0.02964
Std Dev 0.7114
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

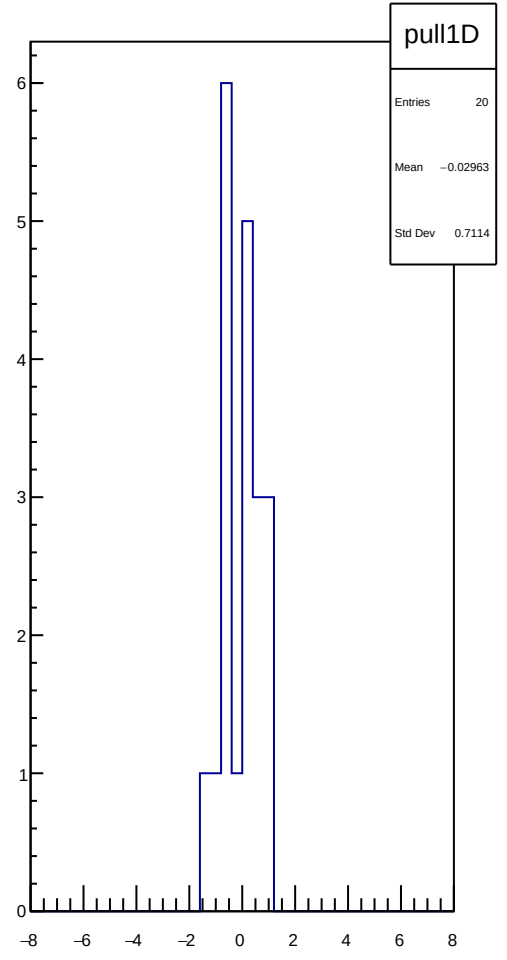

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 329 / 19
p0 4644 ± 7.299
4900
4800
4700
4600
4500
4400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

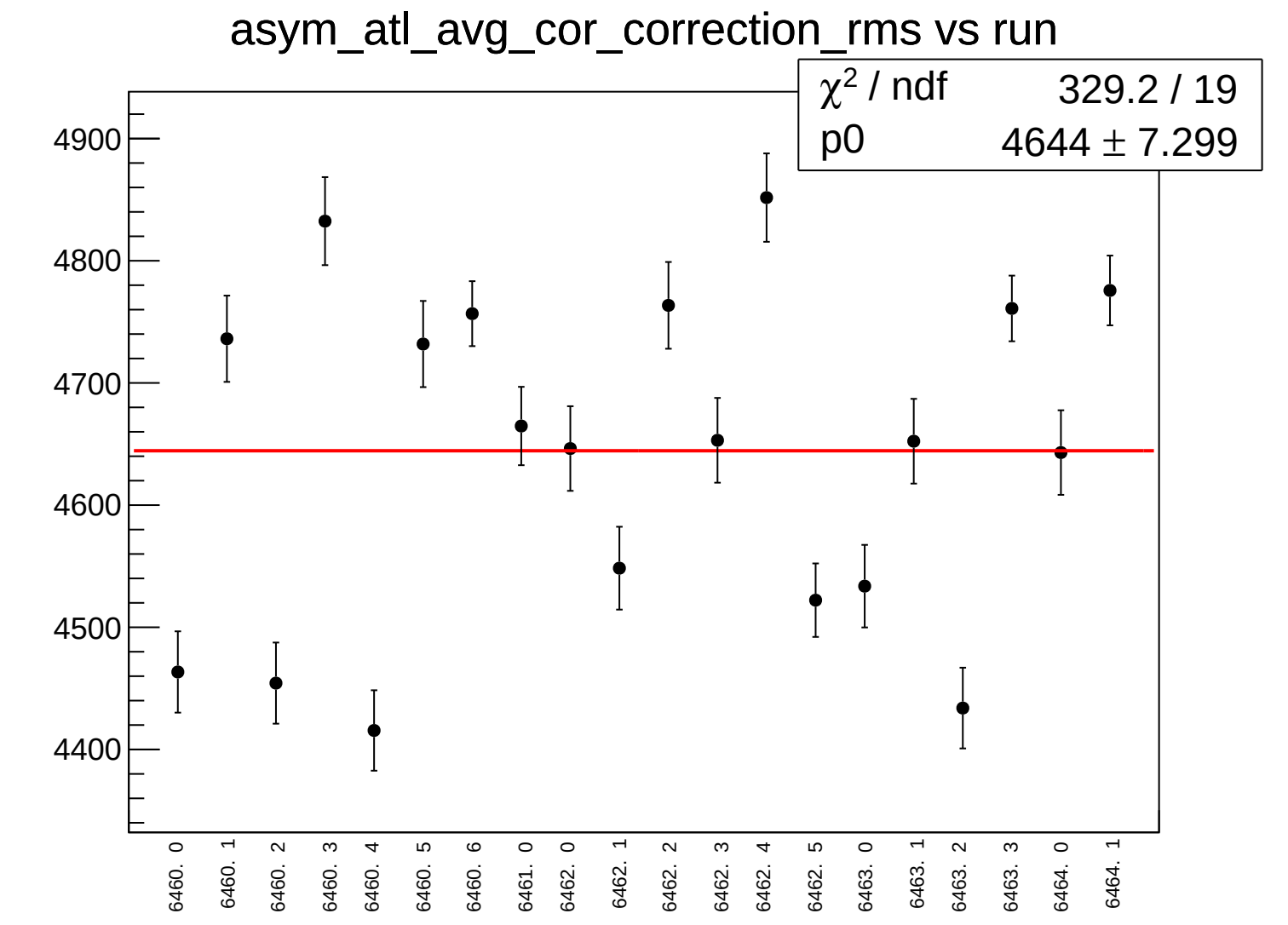

cor_asym_atl_avg_mean vs run
χ² / ndf 21.99 / 19
p0 1339 ± 3968
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.748
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

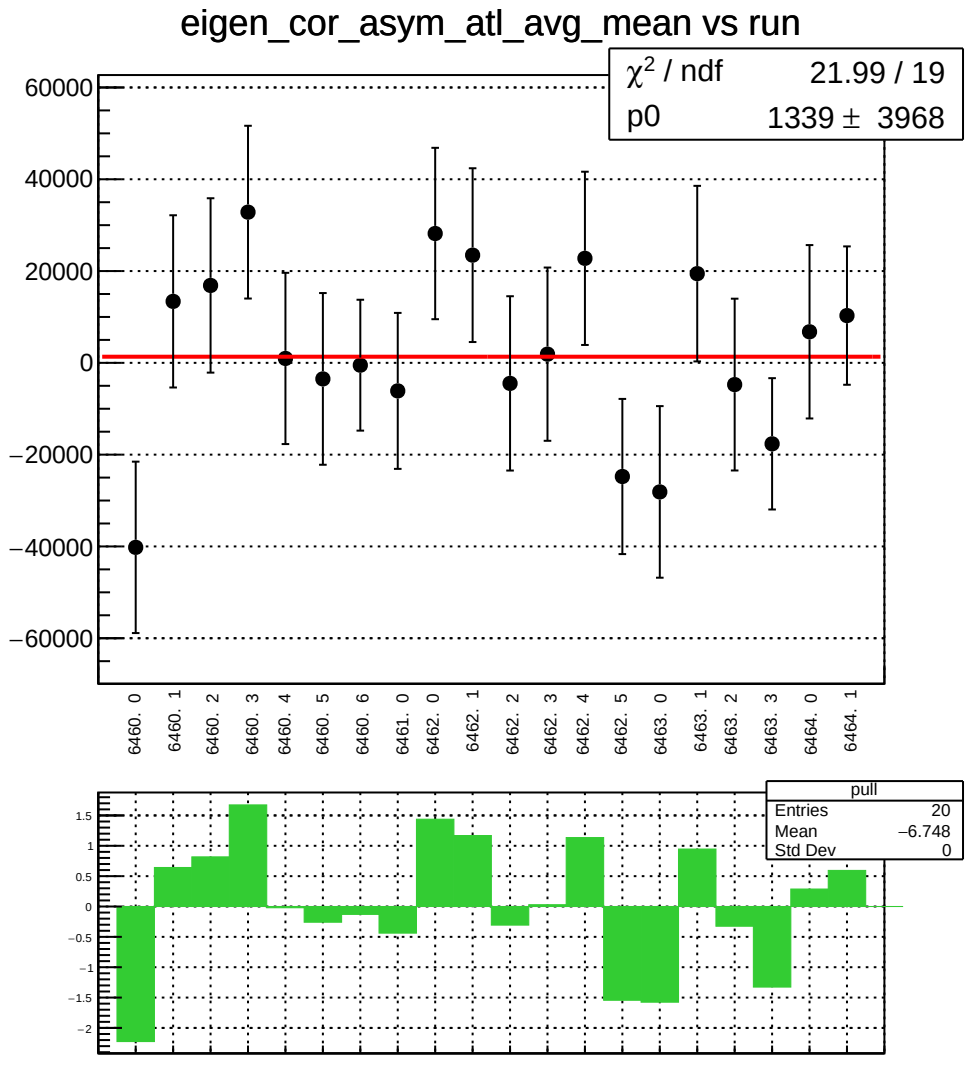

pull1D
Entries 20
Mean 0.02921
Std Dev 1.048
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

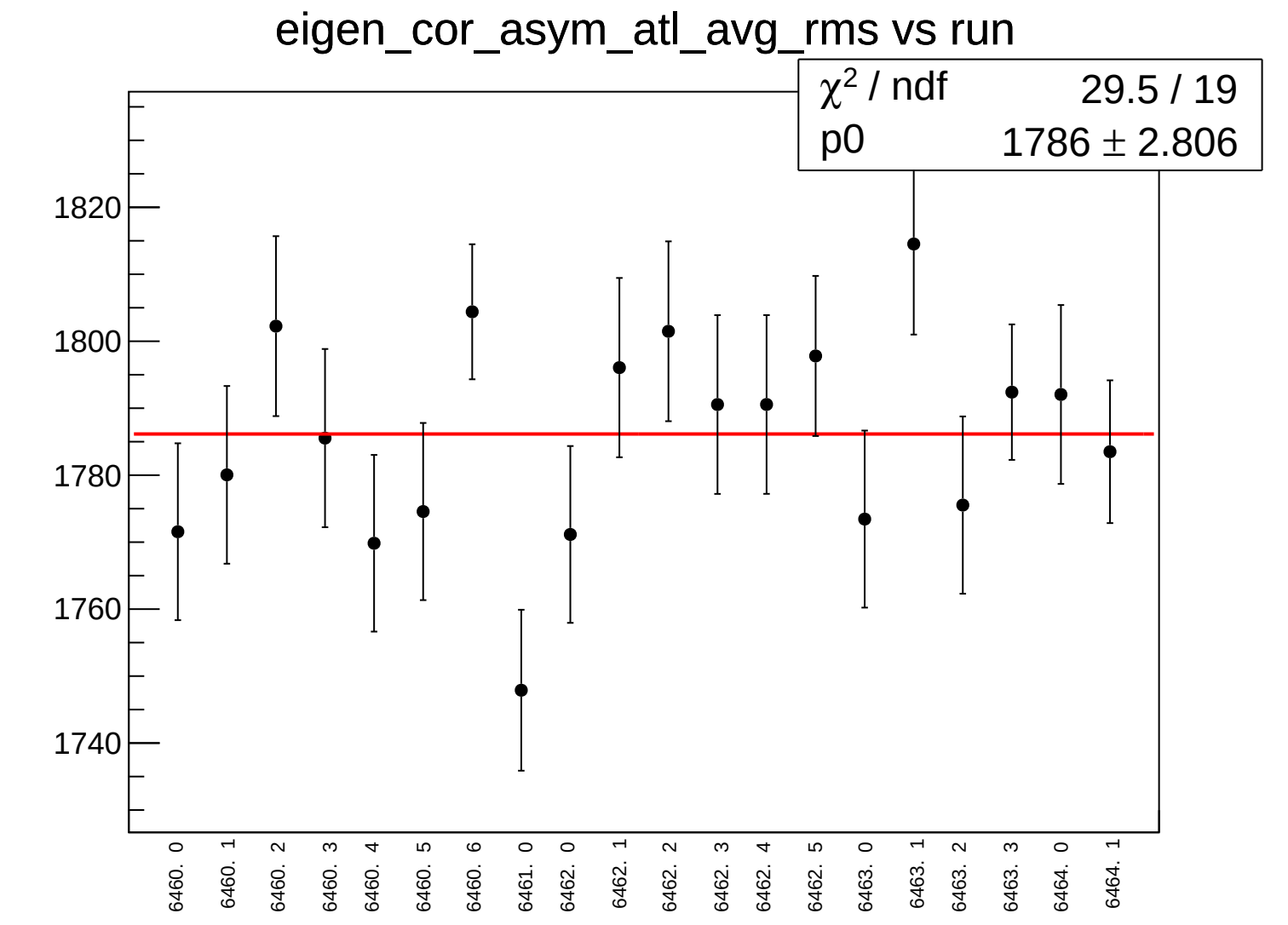

cor_asym_atl_avg_rms vs run
χ² / ndf 29.5 / 19
p0 1786 ± 2.806
1820
1800
1780
1760
1740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

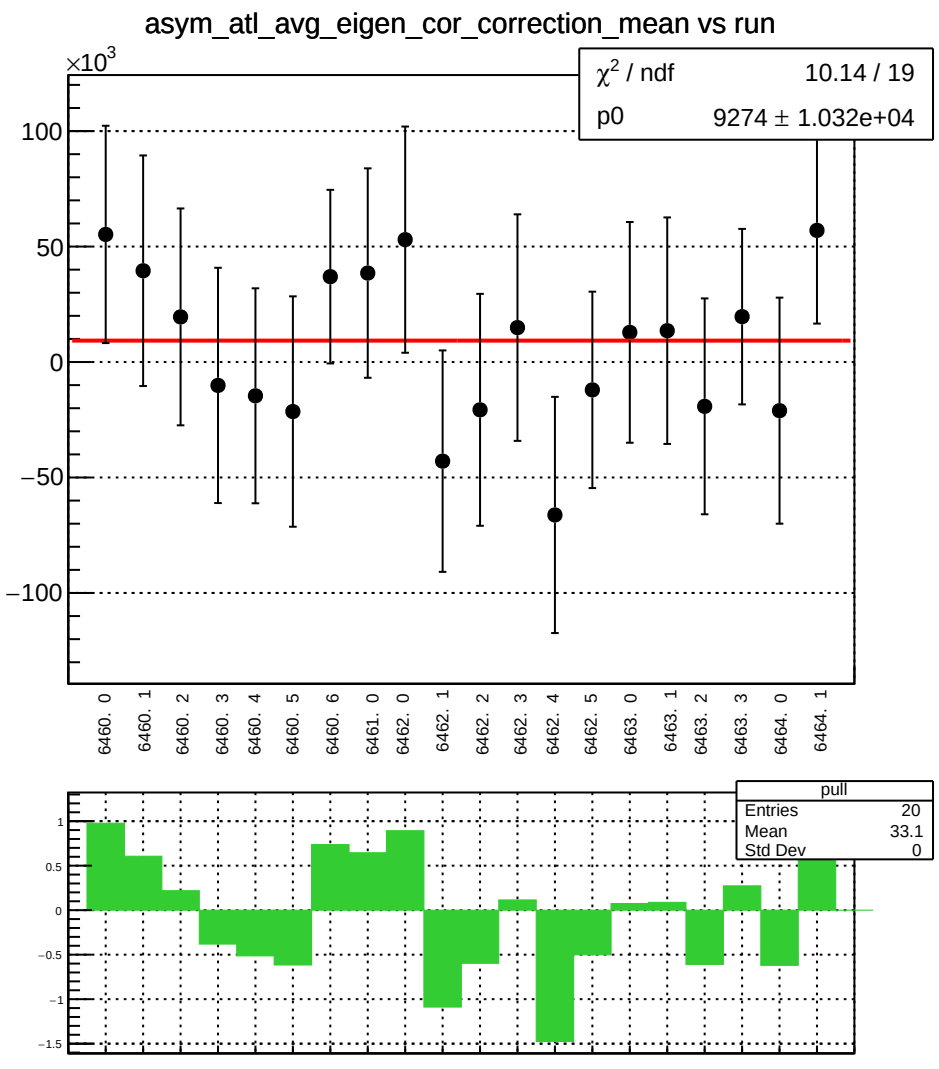

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 10.14 / 19
p0 9274 ± 1.032e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

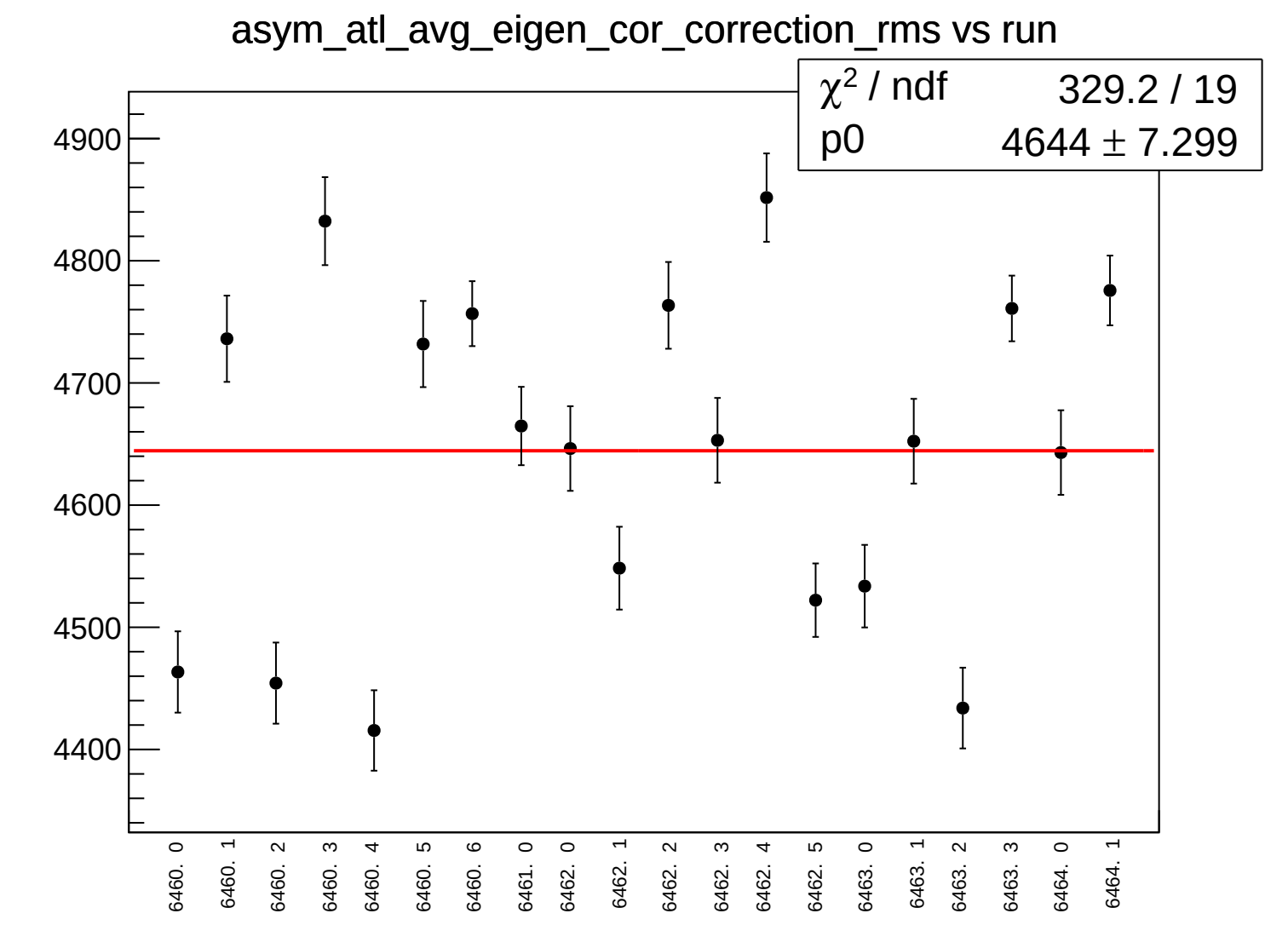

pull1D
Entries 20
Mean −0.02963
Std Dev 0.7114
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

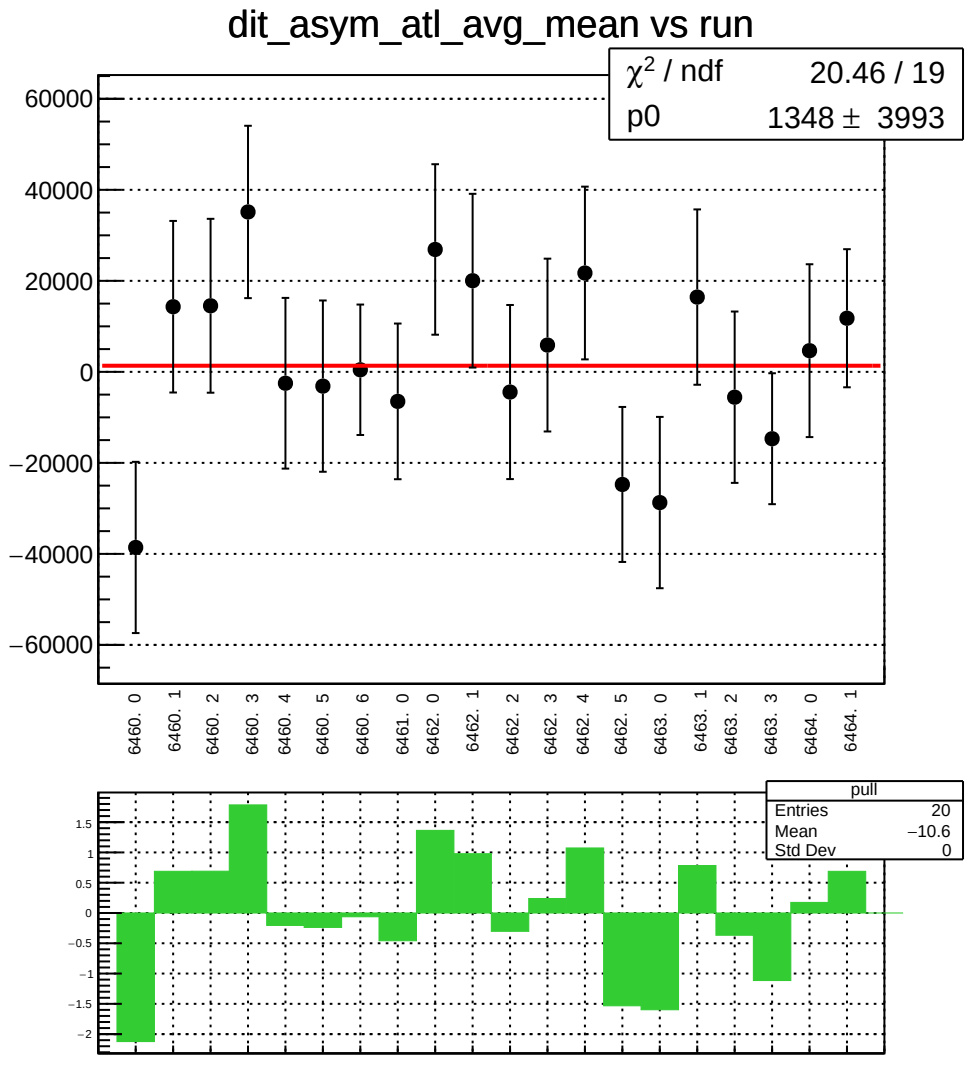

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 329.2 / 19
p0 4644 ± 7.299
4900
4800
4700
4600
4500
4400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

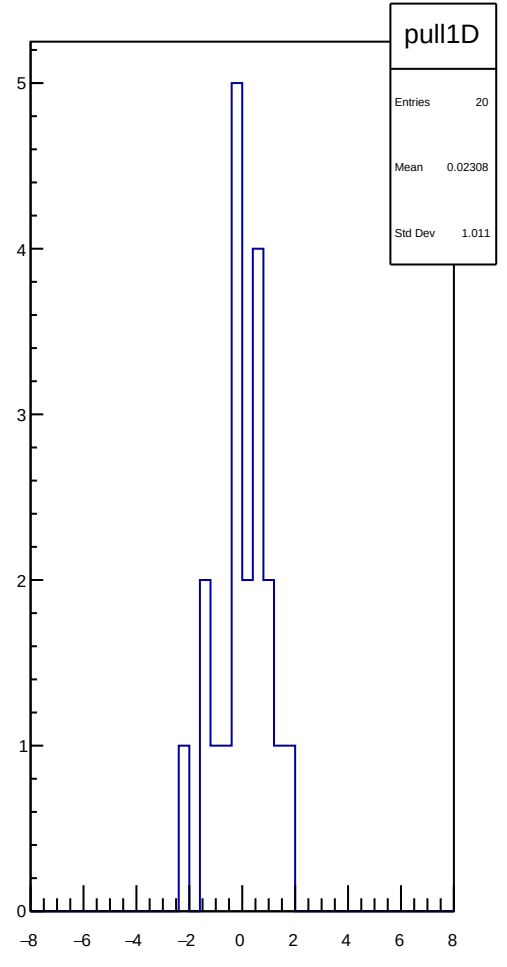

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 21.99 / 19
p0 1339 ± 3968
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.748
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.02921
Std Dev 1.048
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

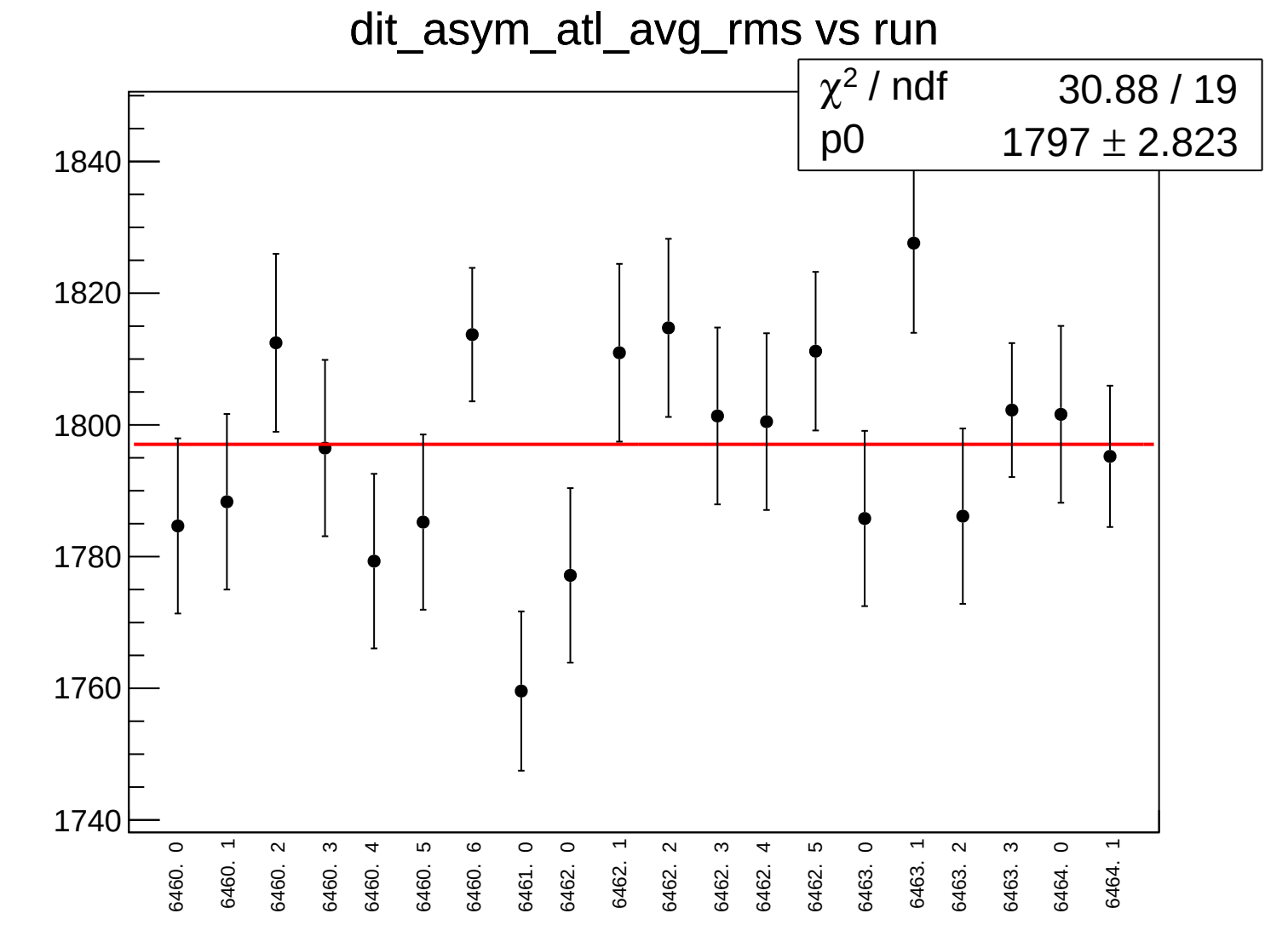

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 29.5 / 19
p0 1786 ± 2.806
1820
1800
1780
1760
1740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

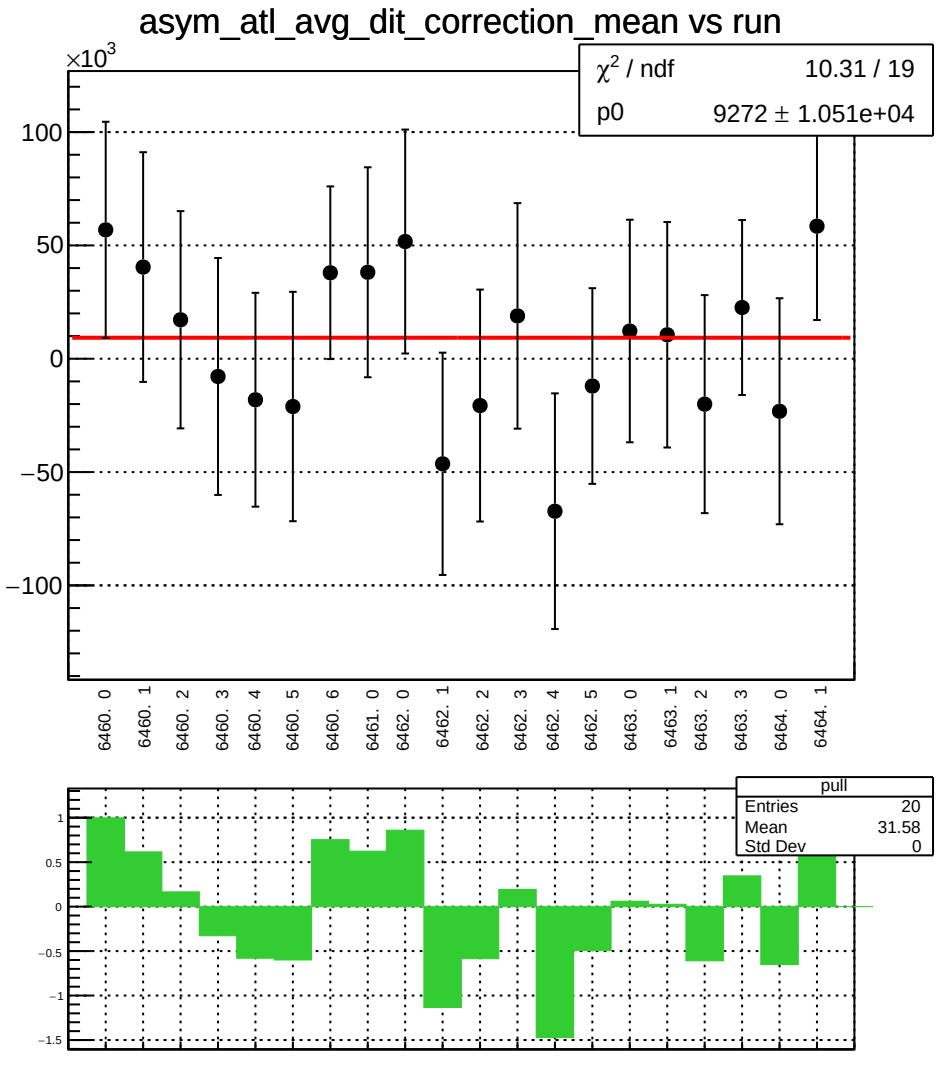

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 10.14 / 19
p0 9274 ± 1.032e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02963
Std Dev 0.7114
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

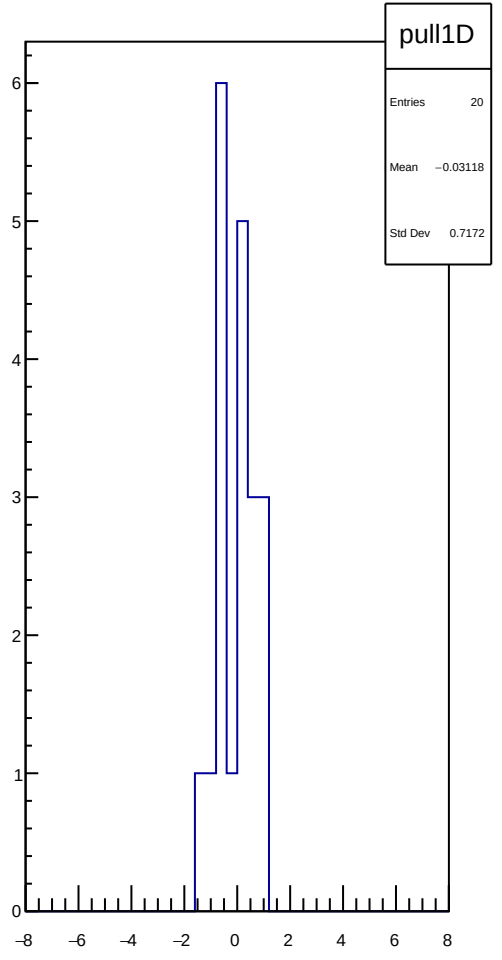

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 329.2 / 19
p0 4644 ± 7.299
4900
4800
4700
4600
4500
4400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

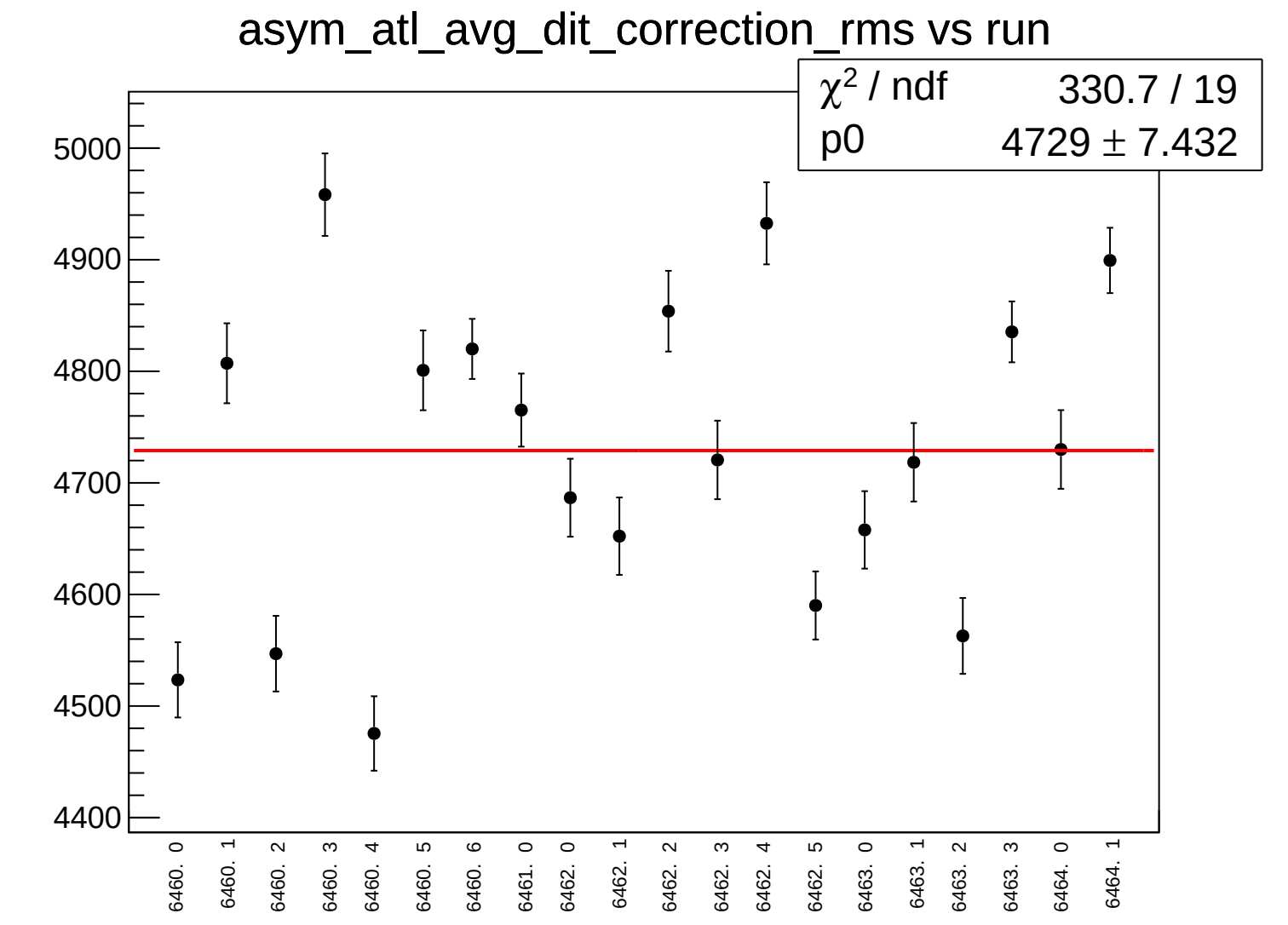

dit_asym_atl_avg_mean vs run
χ² / ndf 20.46 / 19
p0 1348 ± 3993
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −10.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

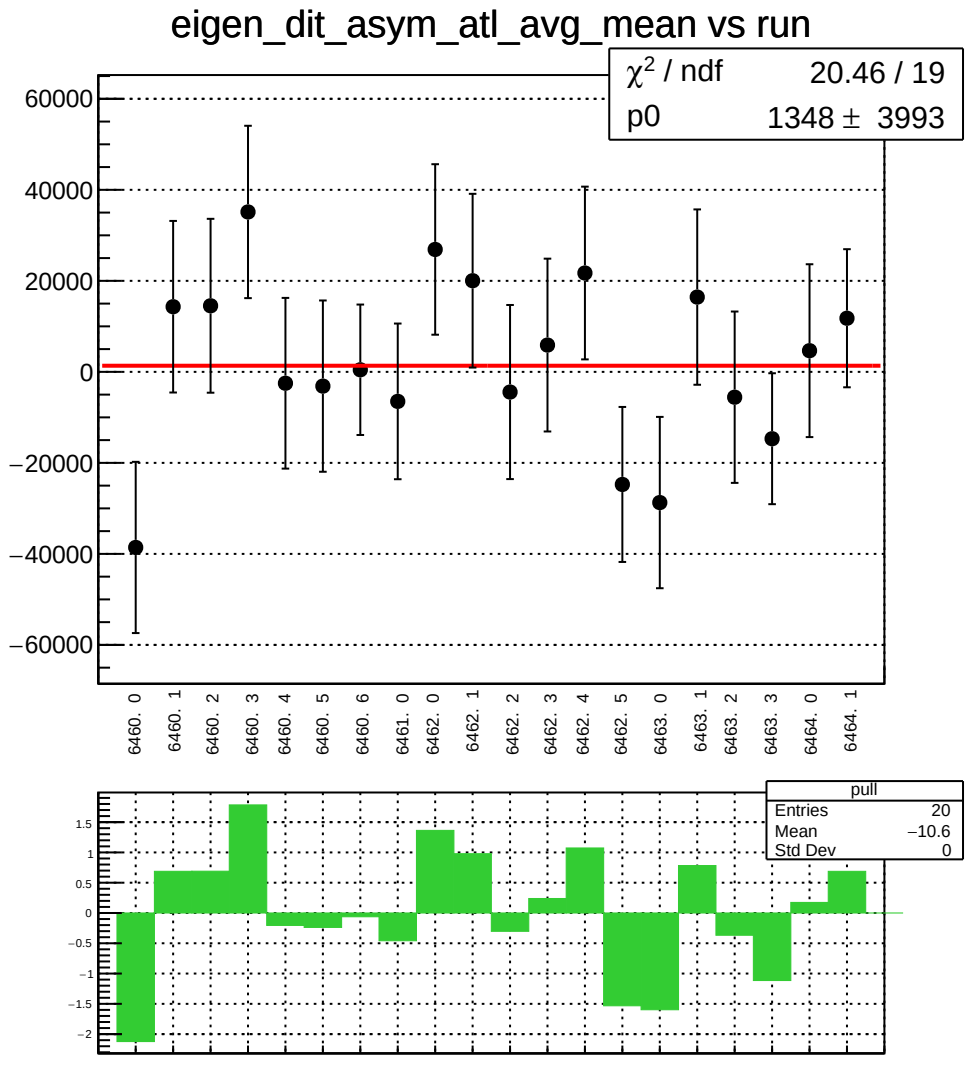

pull1D
Entries 20
Mean 0.02308
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

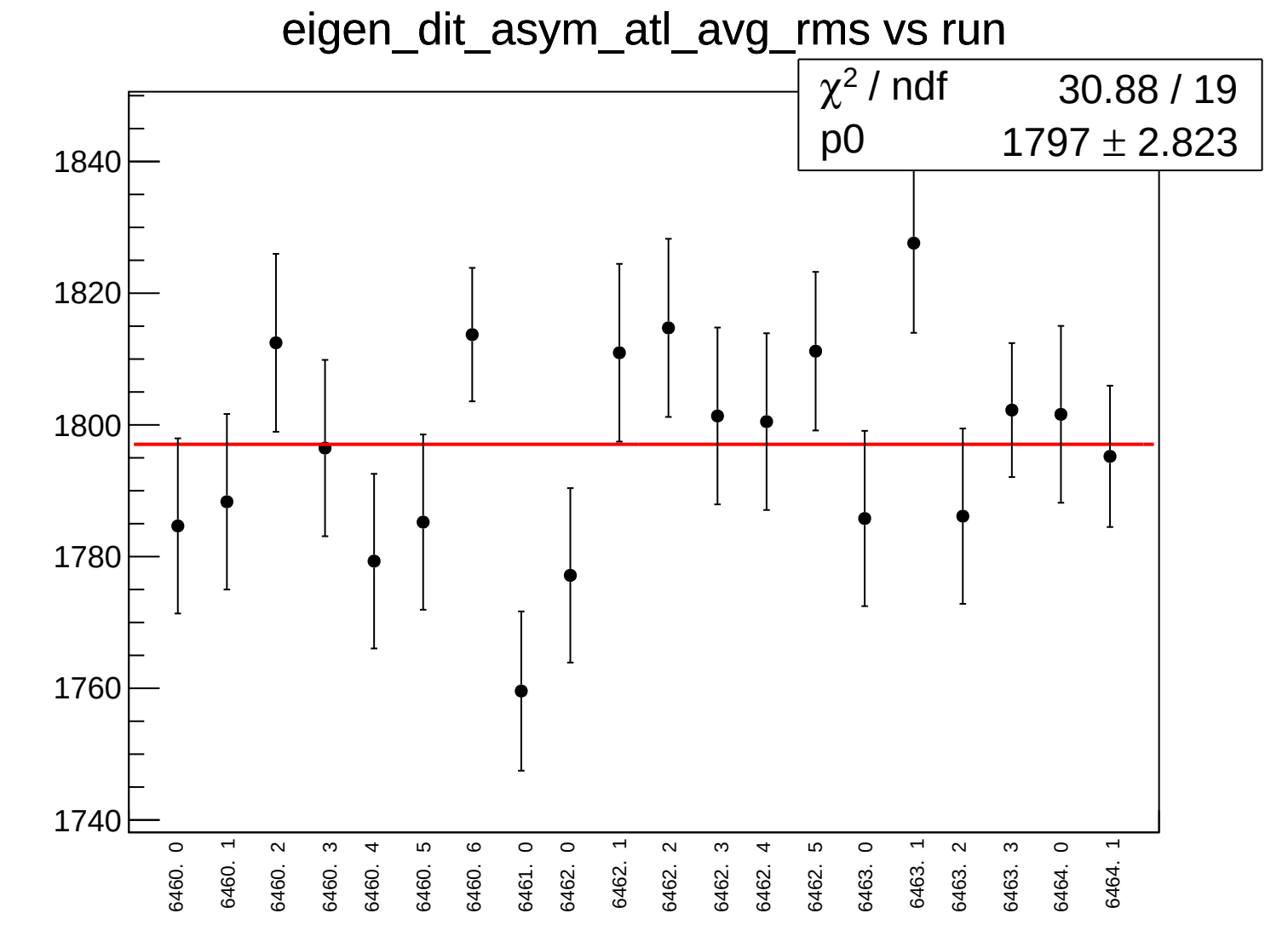

dit_asym_atl_avg_rms vs run
χ² / ndf 30.88 / 19
p0 1797 ± 2.823
1840
1820
1800
1780
1760
1740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

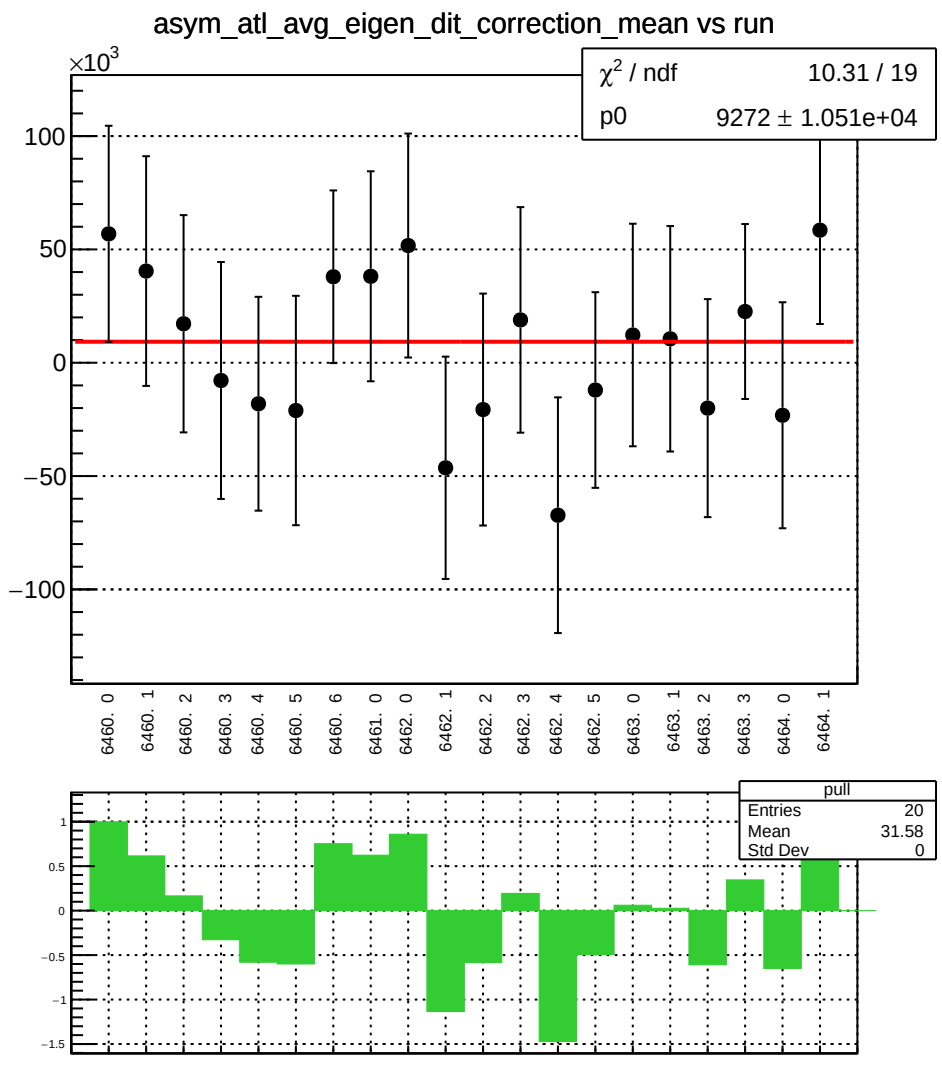

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 10.31 / 19
p0 9272 ± 1.051e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.58
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

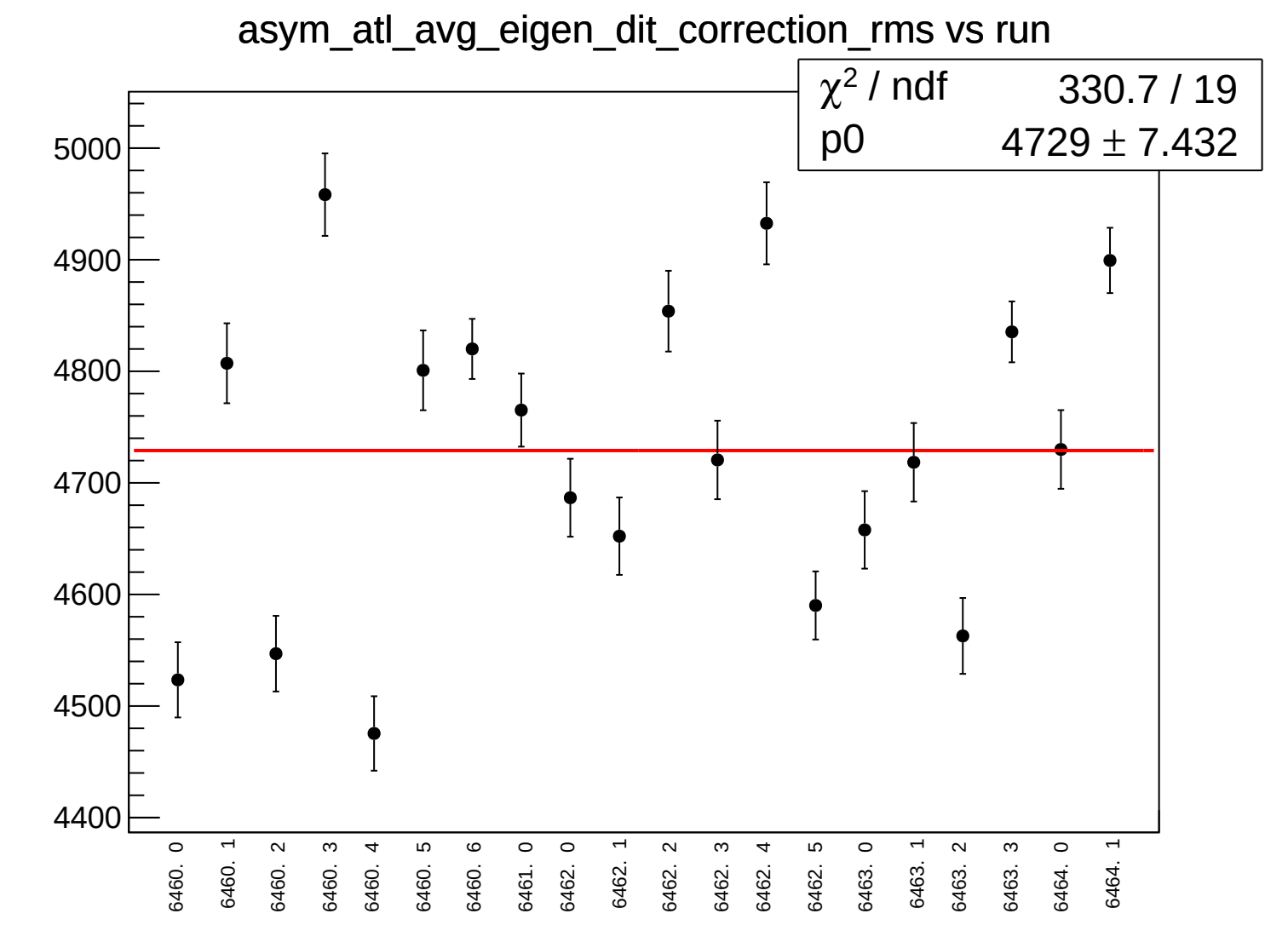

pull1D
Entries 20
Mean −0.03118
Std Dev 0.7172
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

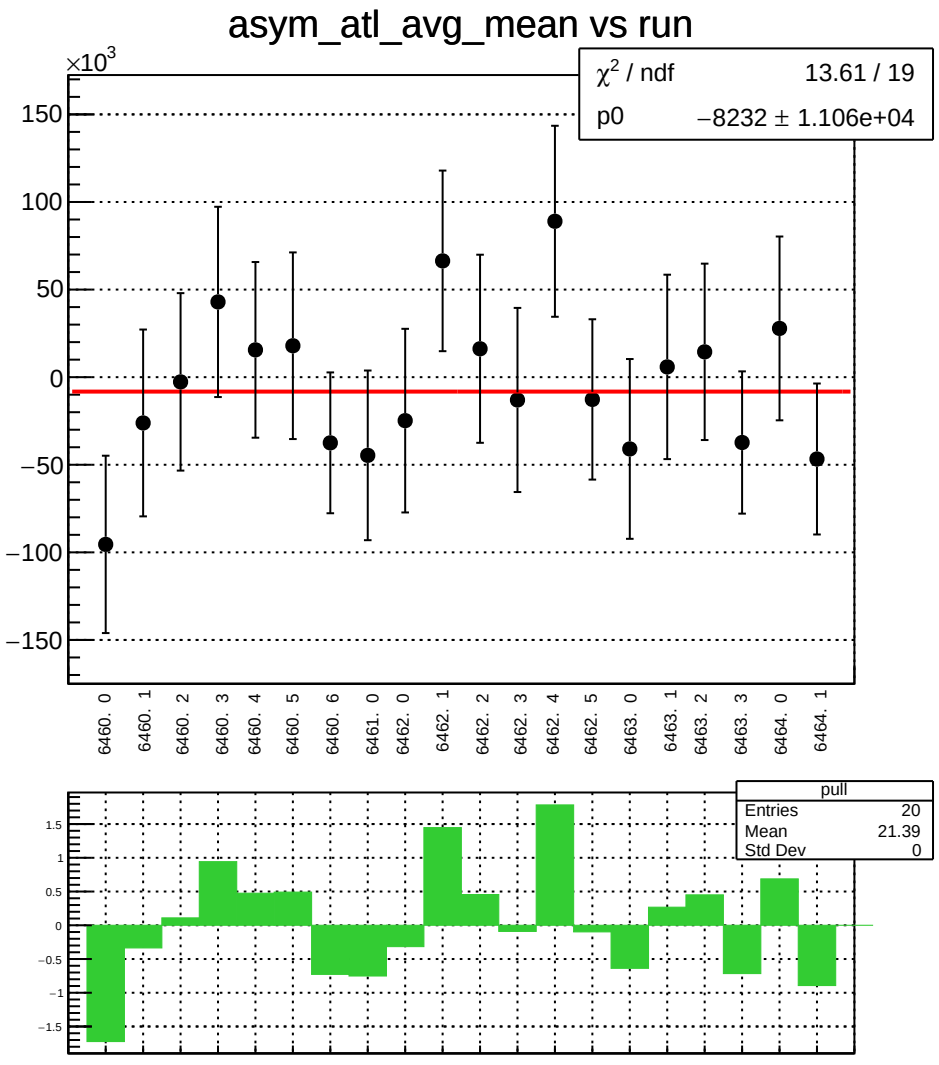

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 330.7 / 19
p0 4729 ± 7.432
5000
4900
4800
4700
4600
4500
4400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

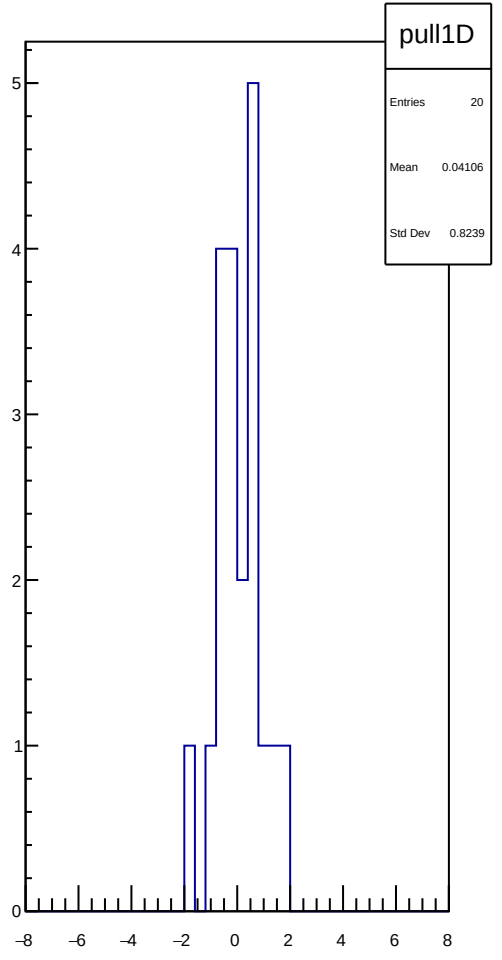

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 20.46 / 19
p0 1348 ± 3993
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −10.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.02308
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

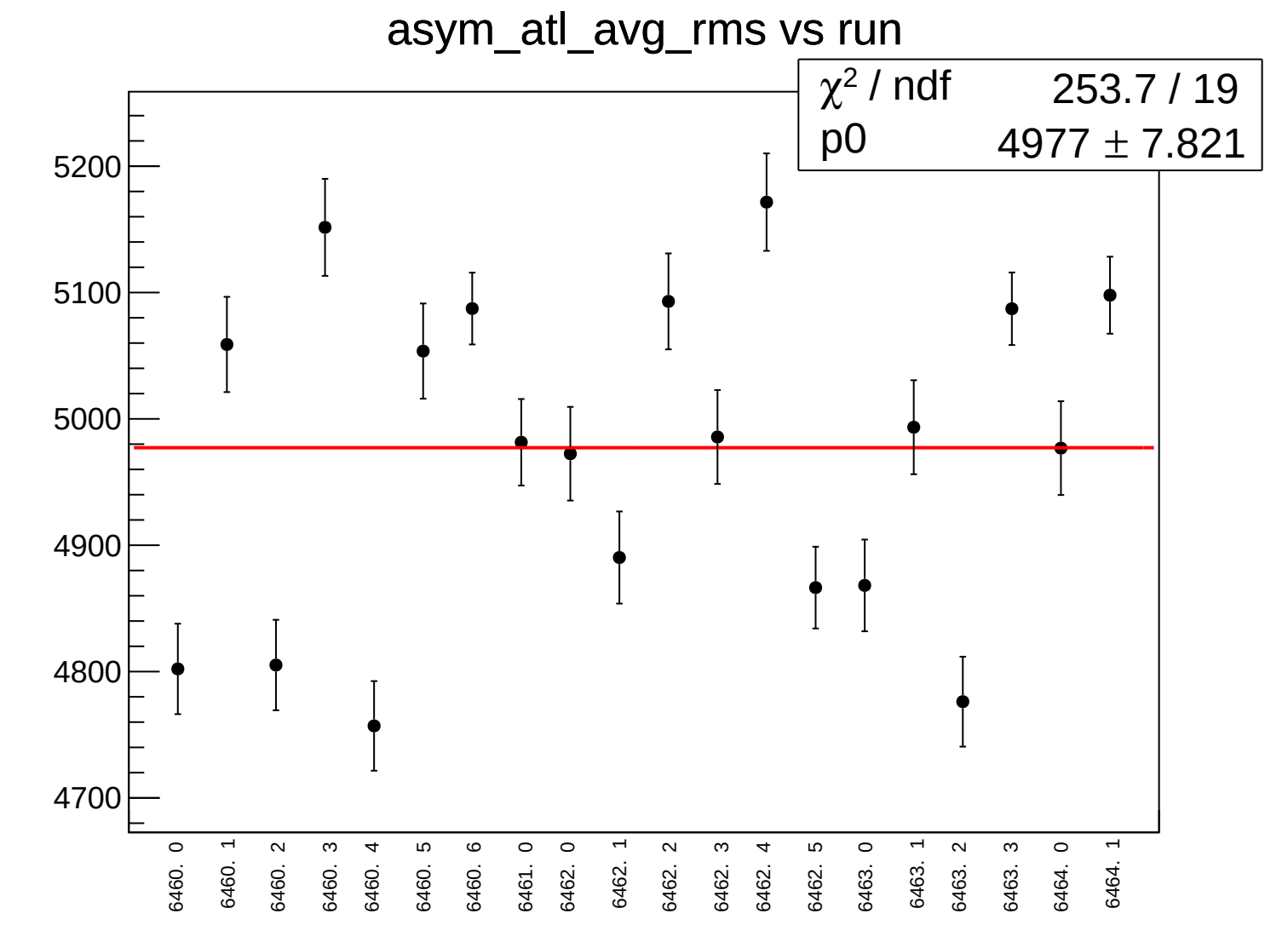

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 30.88 / 19
p0 1797 ± 2.823
1840
1820
1800
1780
1760
1740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

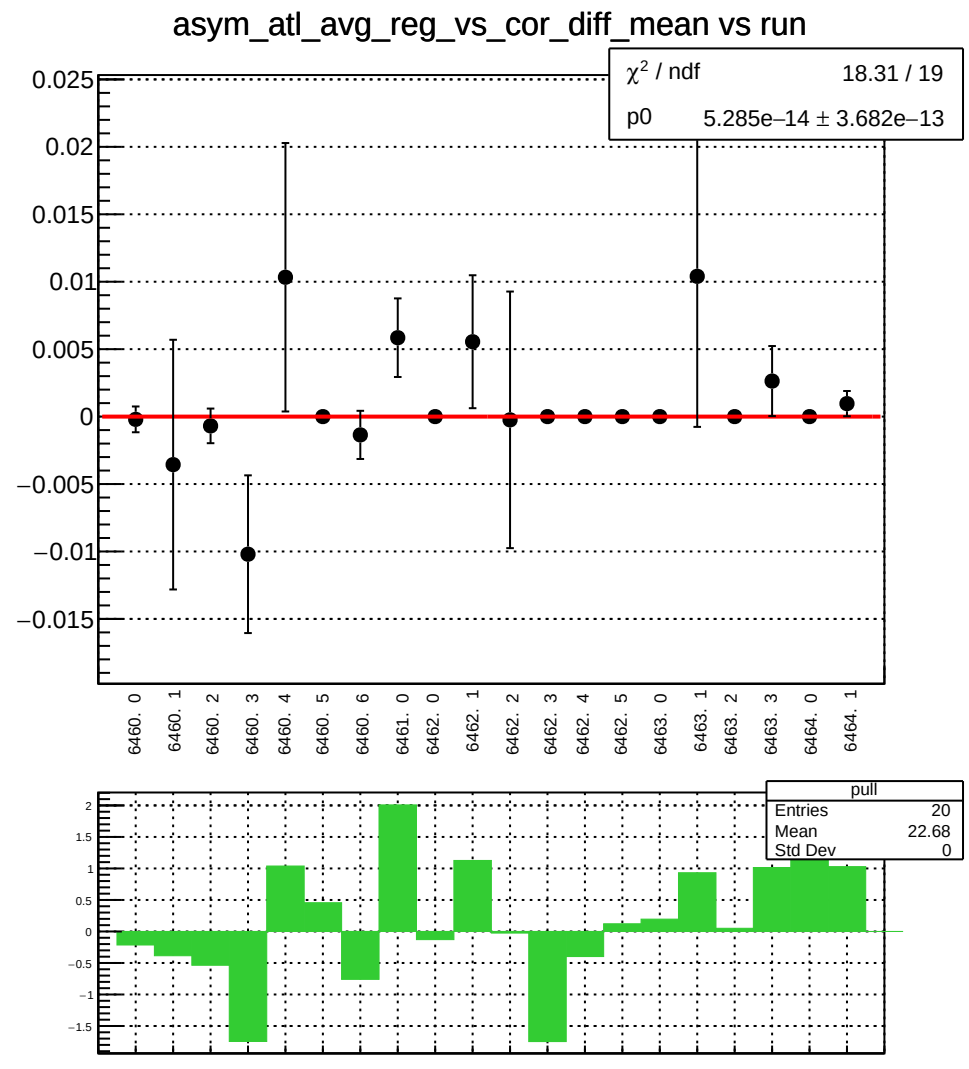

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 10.31 / 19
p0 9272 ± 1.051e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.58
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03118
Std Dev 0.7172
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

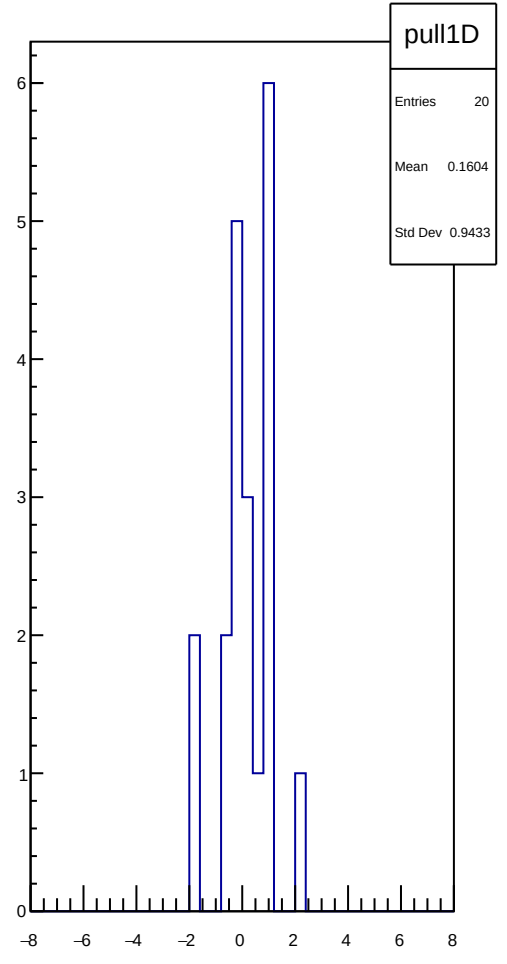

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 330.7 / 19
p0 4729 ± 7.432
5000
4900
4800
4700
4600
4500
4400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

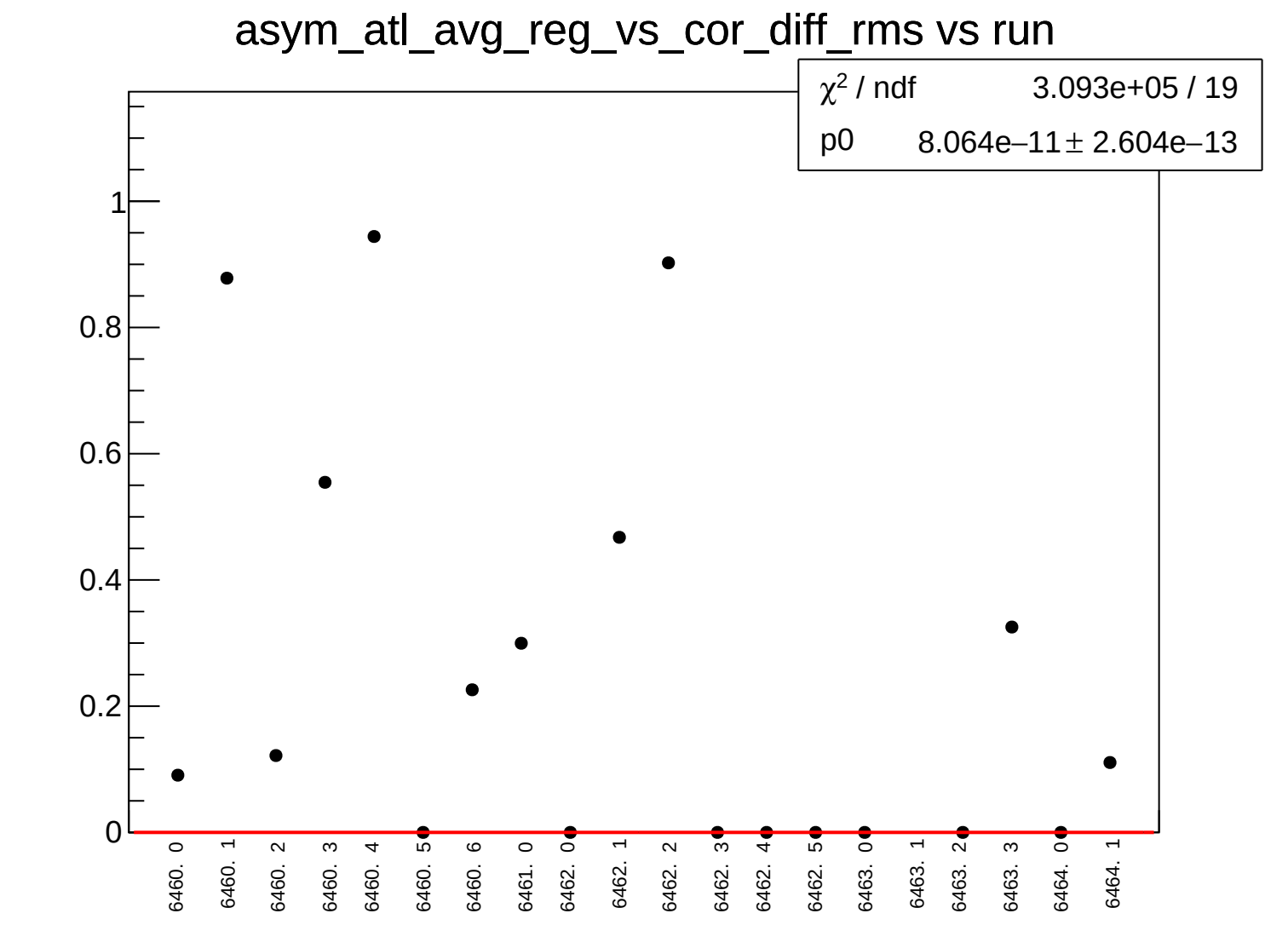

asym_atl_avg_mean vs run
×10^3
χ² / ndf 13.61 / 19
p0 −8232 ± 1.106e+04
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 21.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

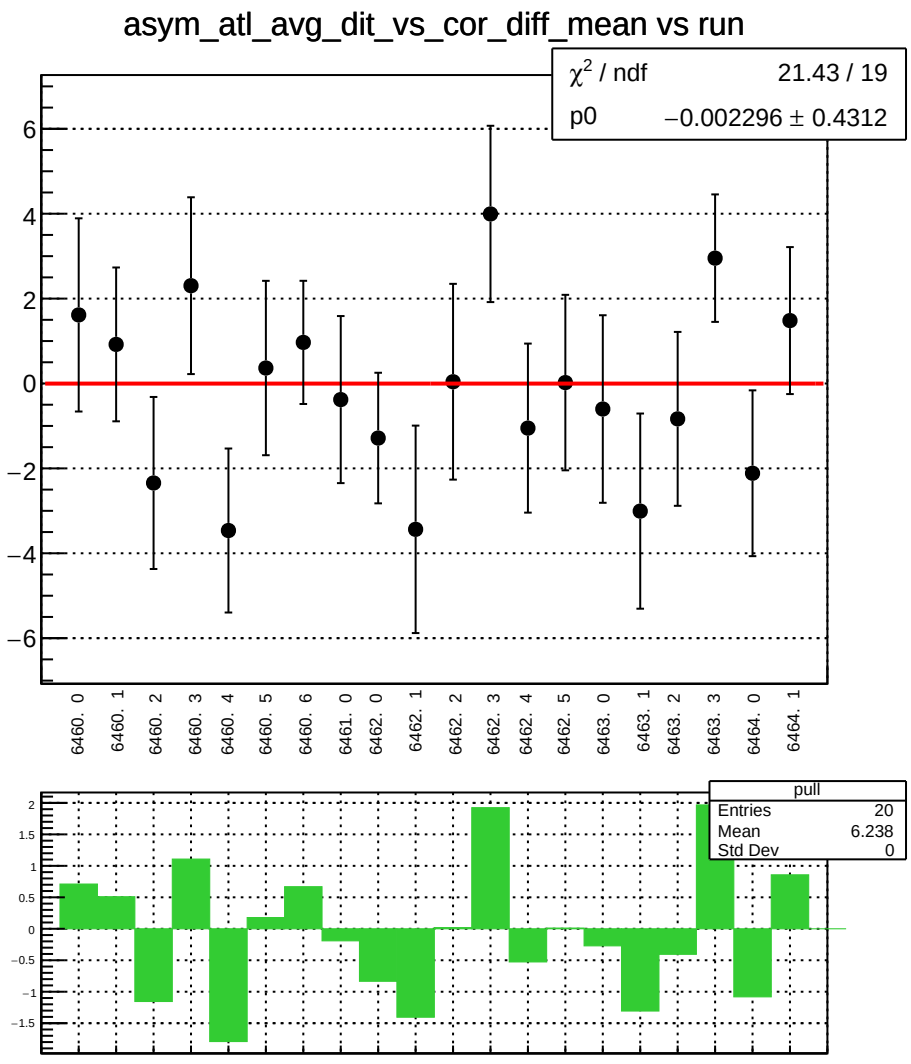

pull1D
Entries 20
Mean 0.04106
Std Dev 0.8239
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

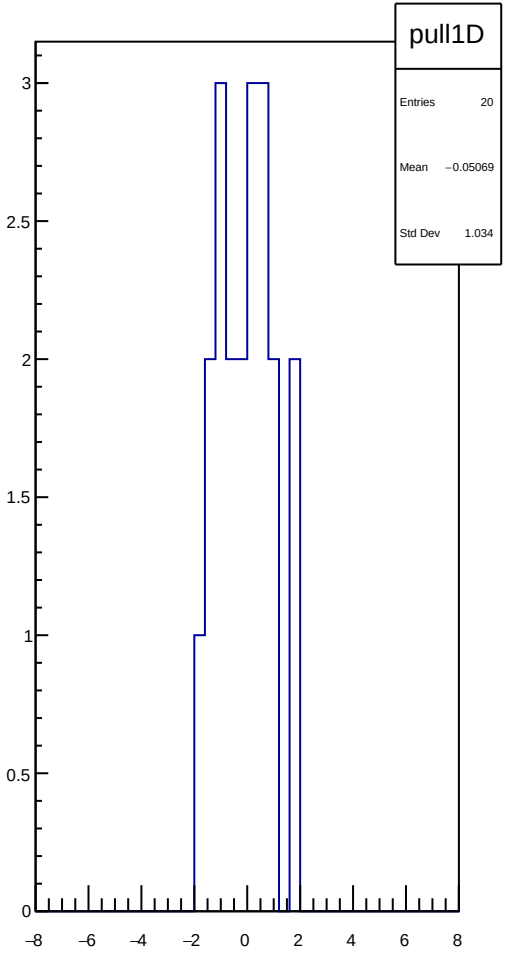

asym_atl_avg_rms vs run
χ² / ndf 253.7 / 19
p0 4977 ± 7.821
5200
5100
5000
4900
4800
4700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

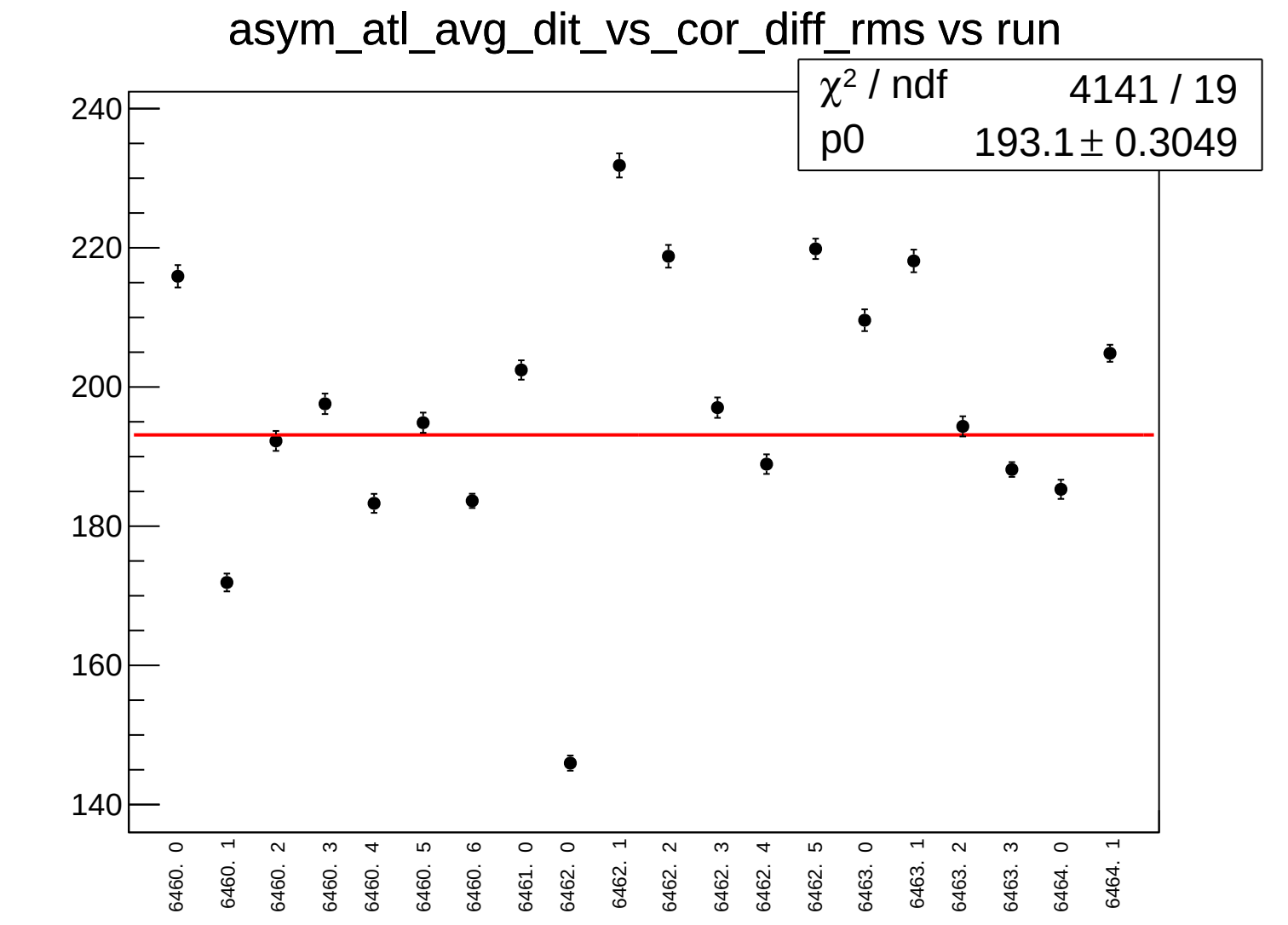

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 18.31 / 19
p0 5.285e−14 ± 3.682e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 22.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

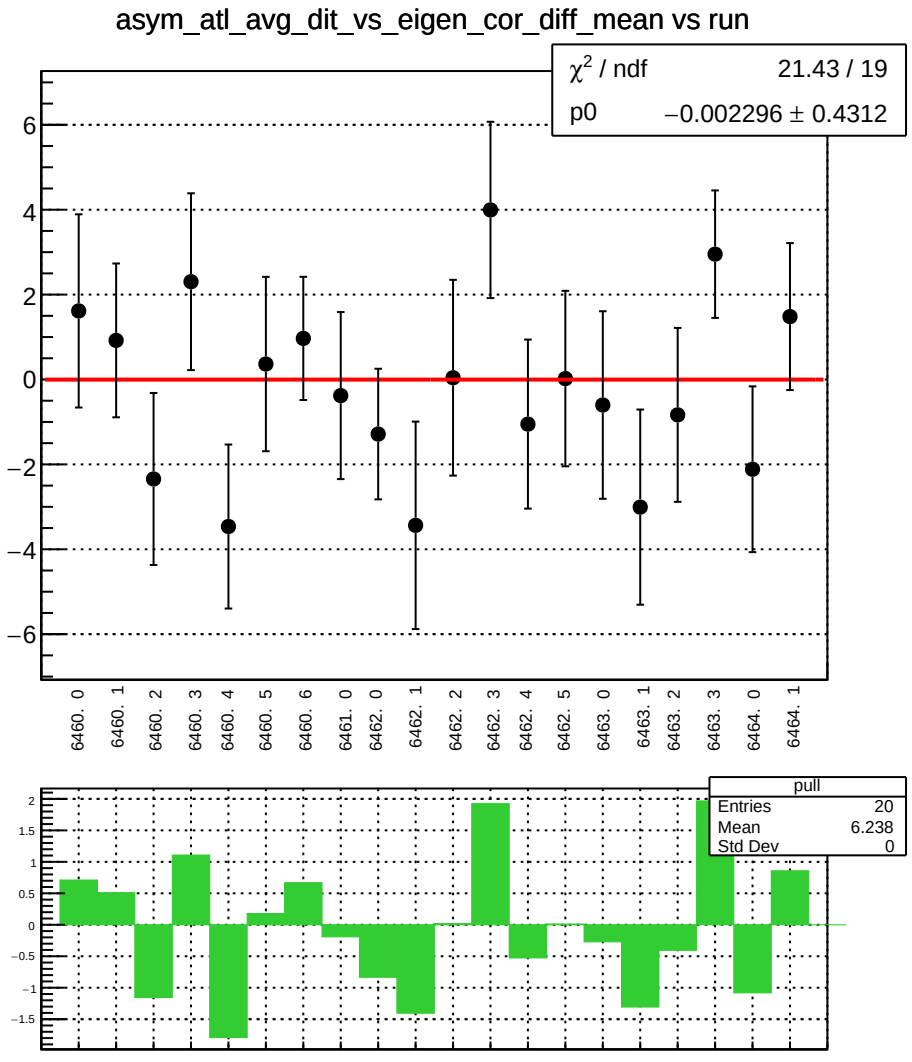

pull1D
Entries 20
Mean 0.1604
Std Dev 0.9433
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

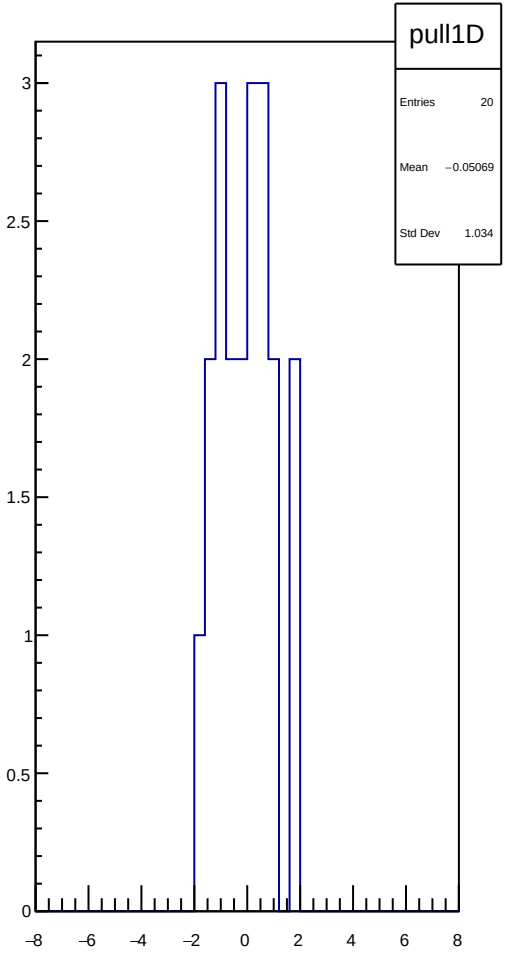

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.093e+05 / 19
p0 8.064e−11 ± 2.604e−13
0
0.2
0.4
0.6
0.8
1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

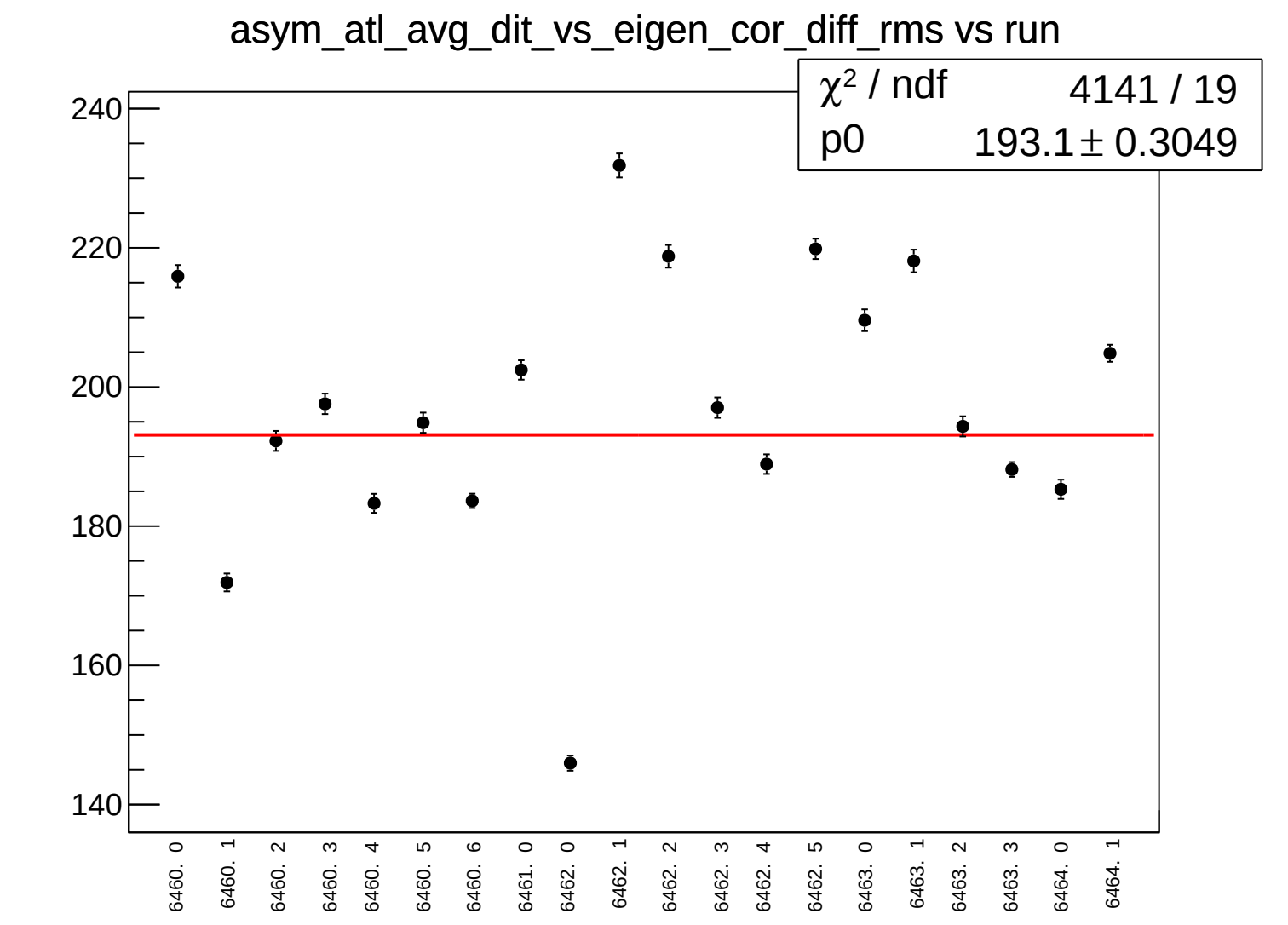

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 21.43 / 19
p0 −0.002296 ± 0.4312
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.238
Std Dev 0

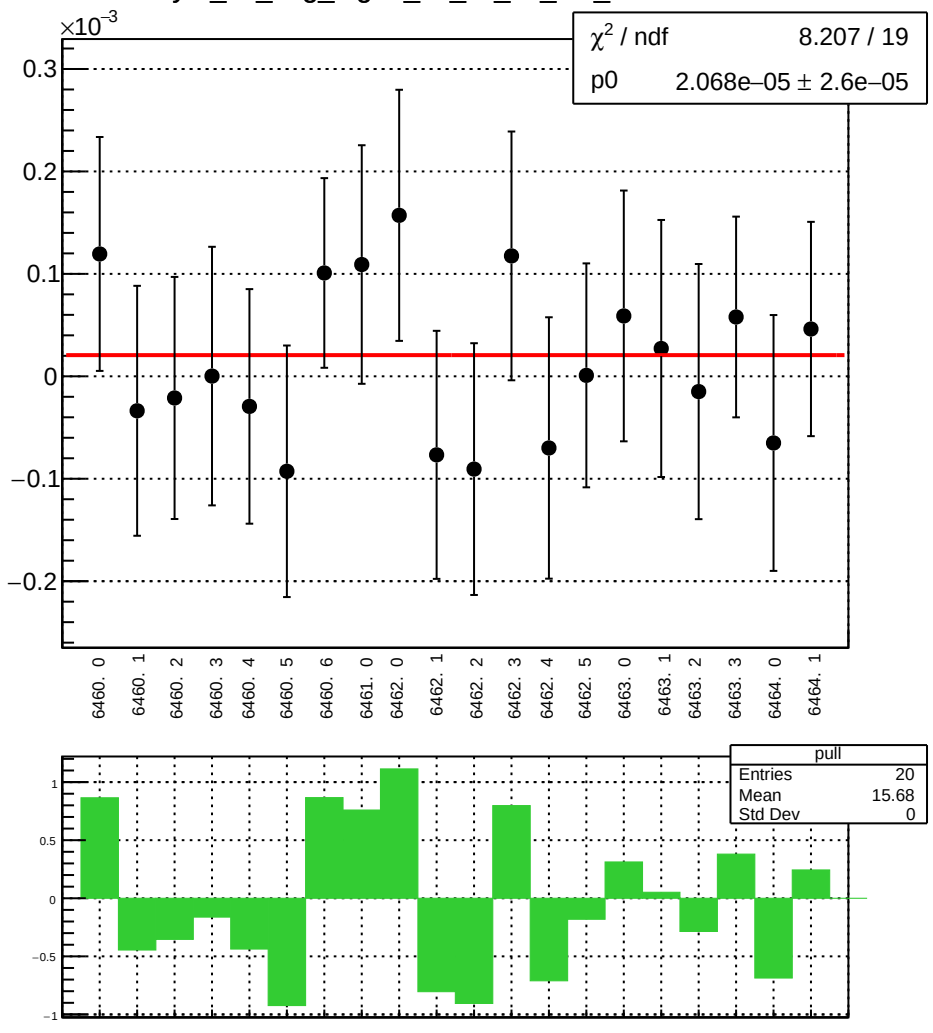

pull1D
Entries 20
Mean −0.05069
Std Dev 1.034

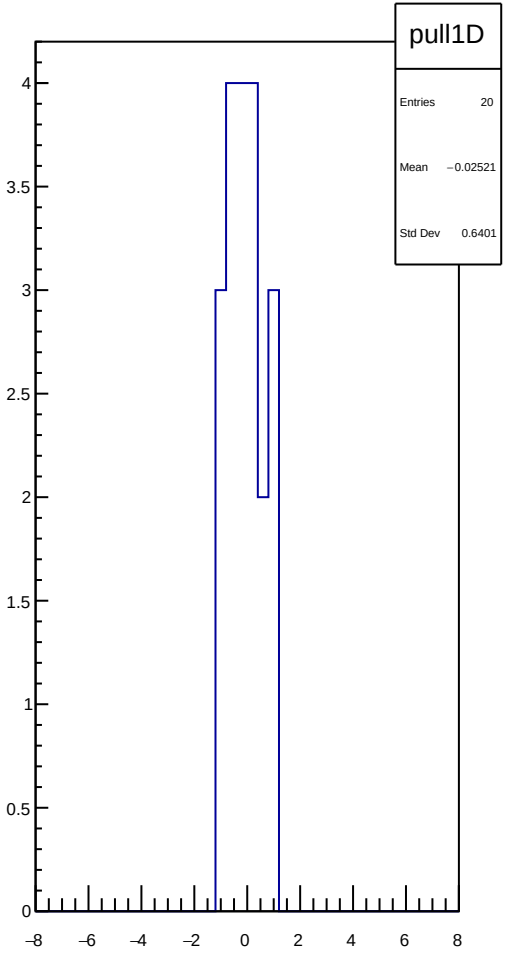

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4141 / 19
p0 193.1 ± 0.3049
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

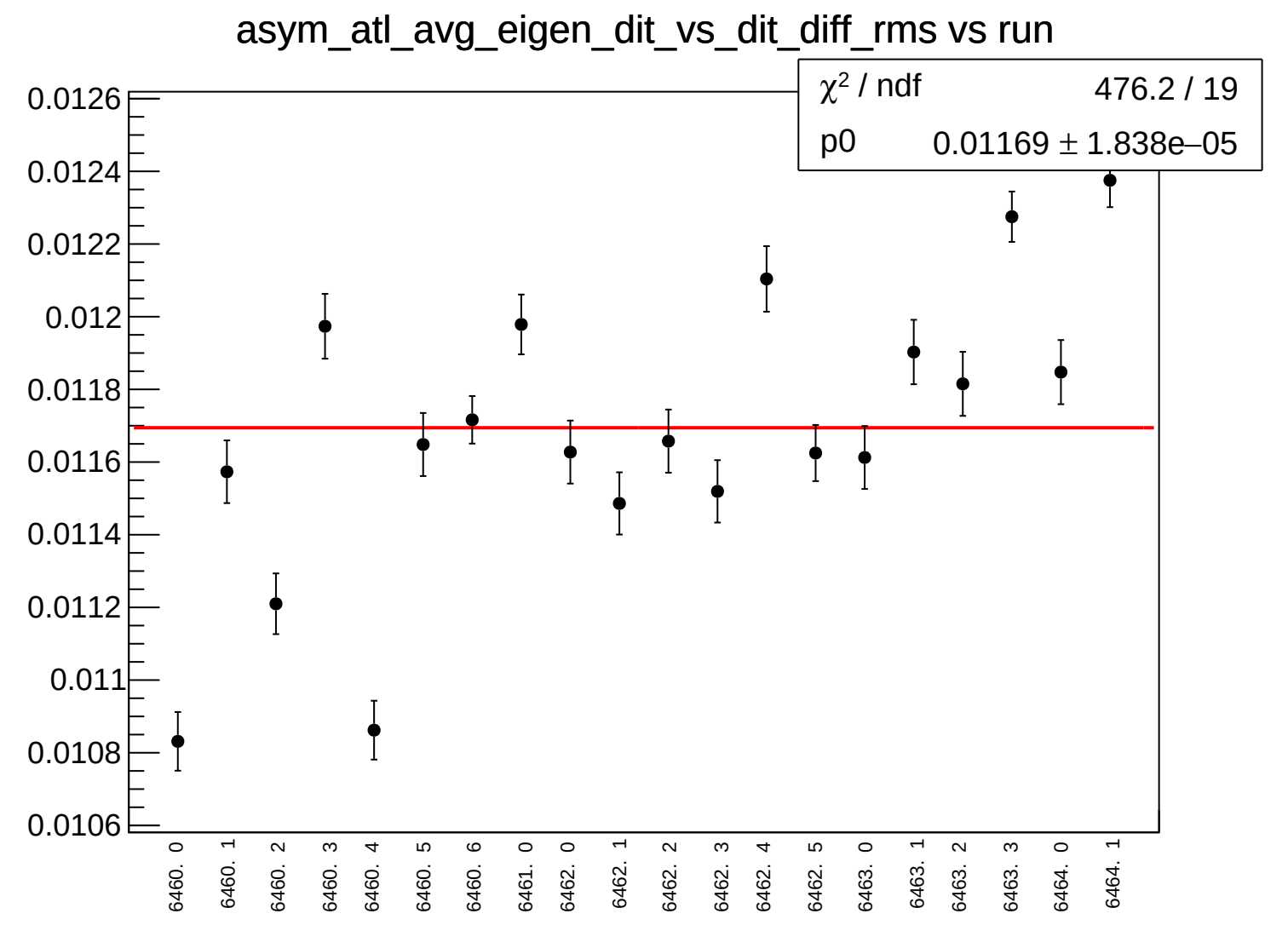

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.43 / 19
p0 −0.002296 ± 0.4312
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.238
Std Dev 0

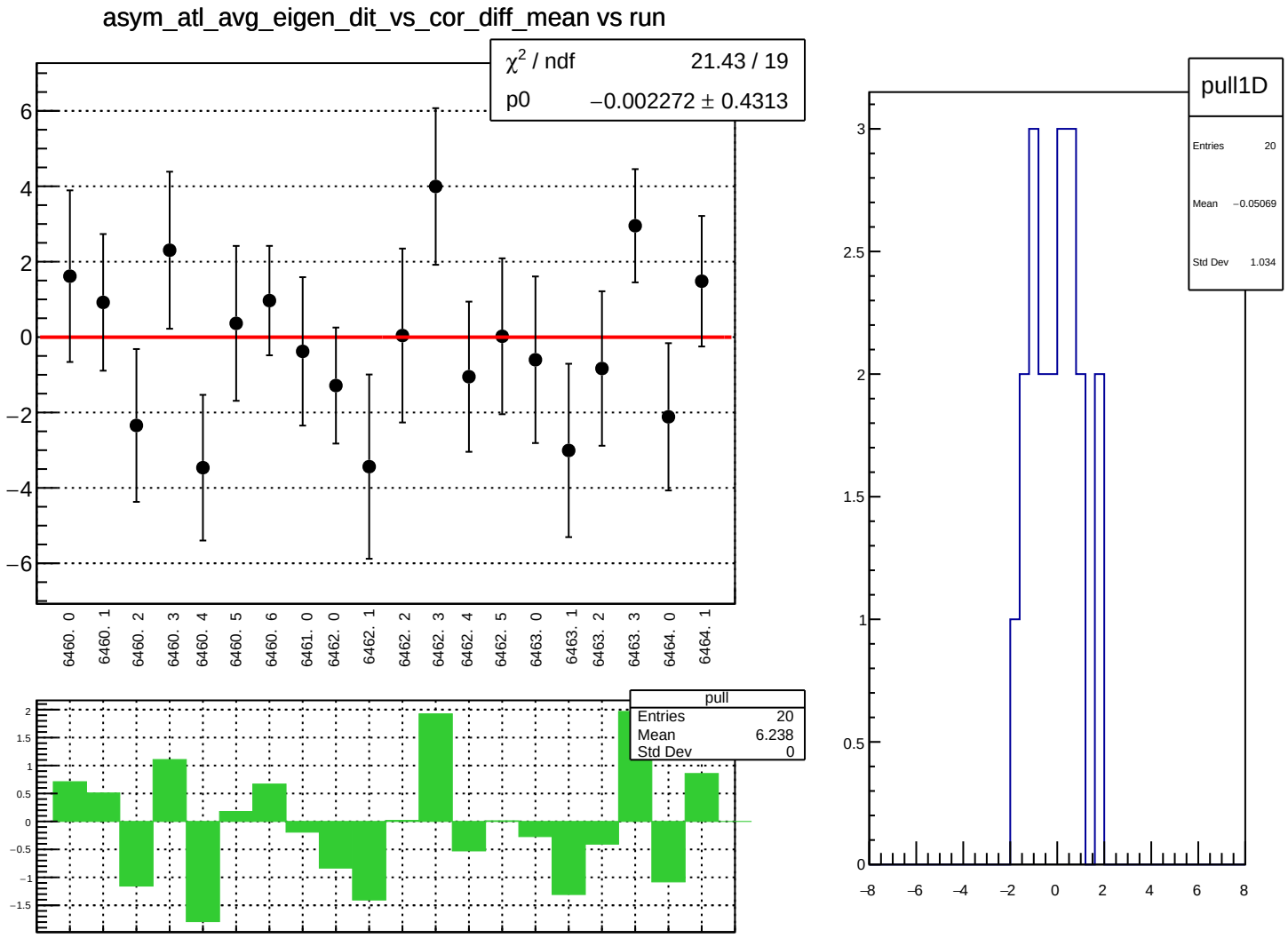

pull1D
Entries 20
Mean −0.05069
Std Dev 1.034

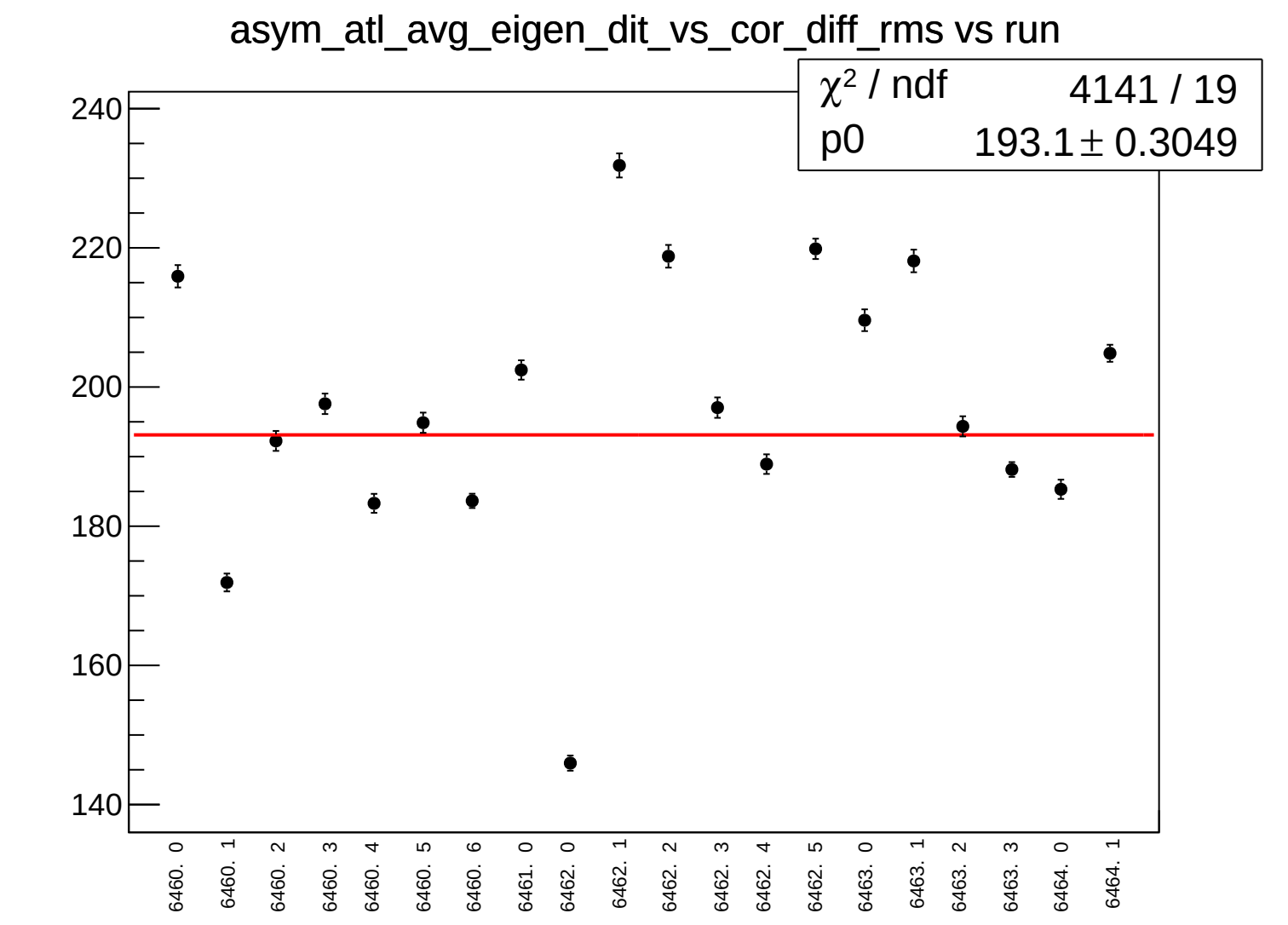

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4141 / 19
p0 193.1 ± 0.3049
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

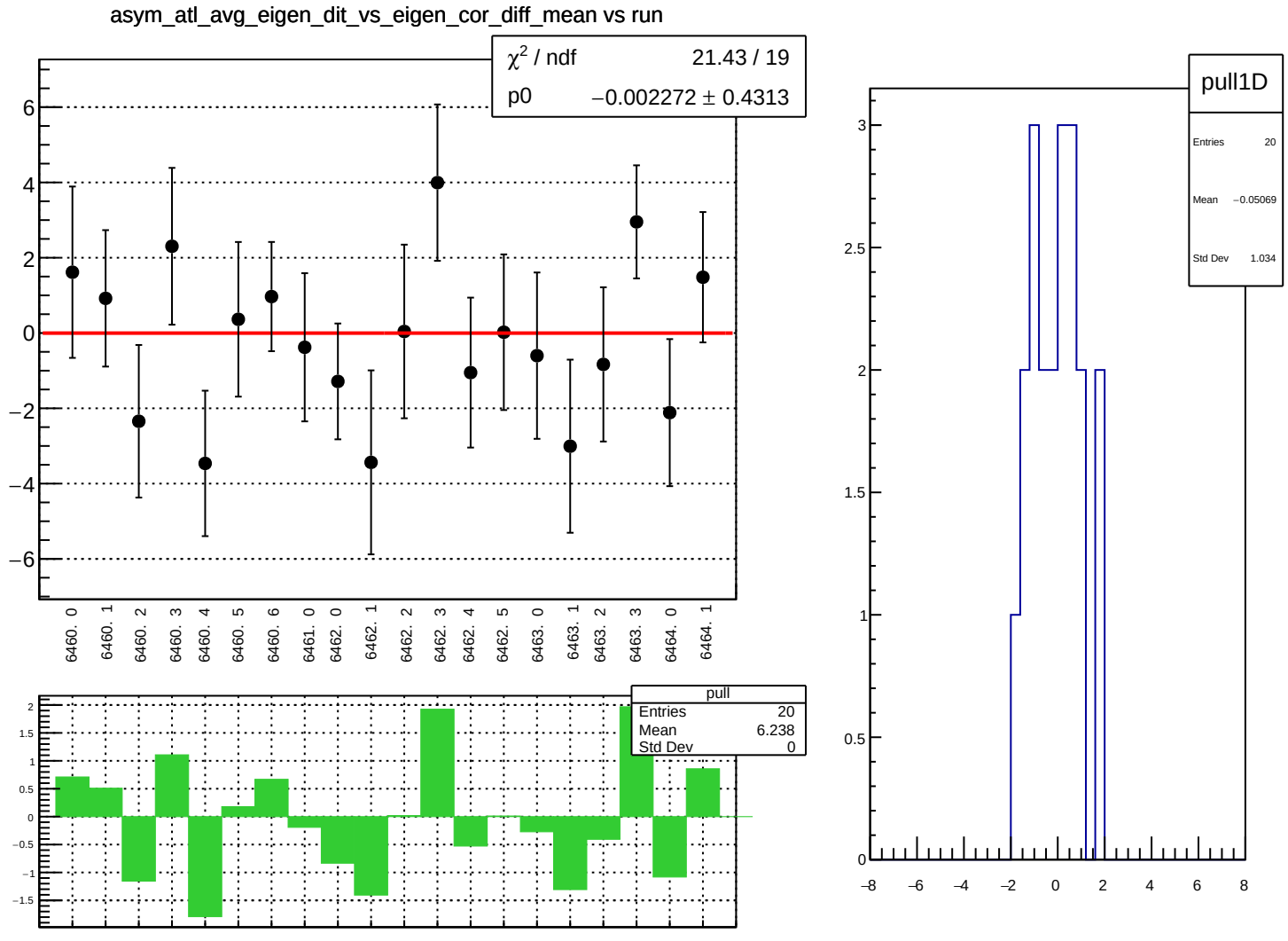

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 8.207 / 19
p0 2.068e−05 ± 2.6e−05
0.3
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.68
Std Dev 0
1
0.5
0
−0.5
−1

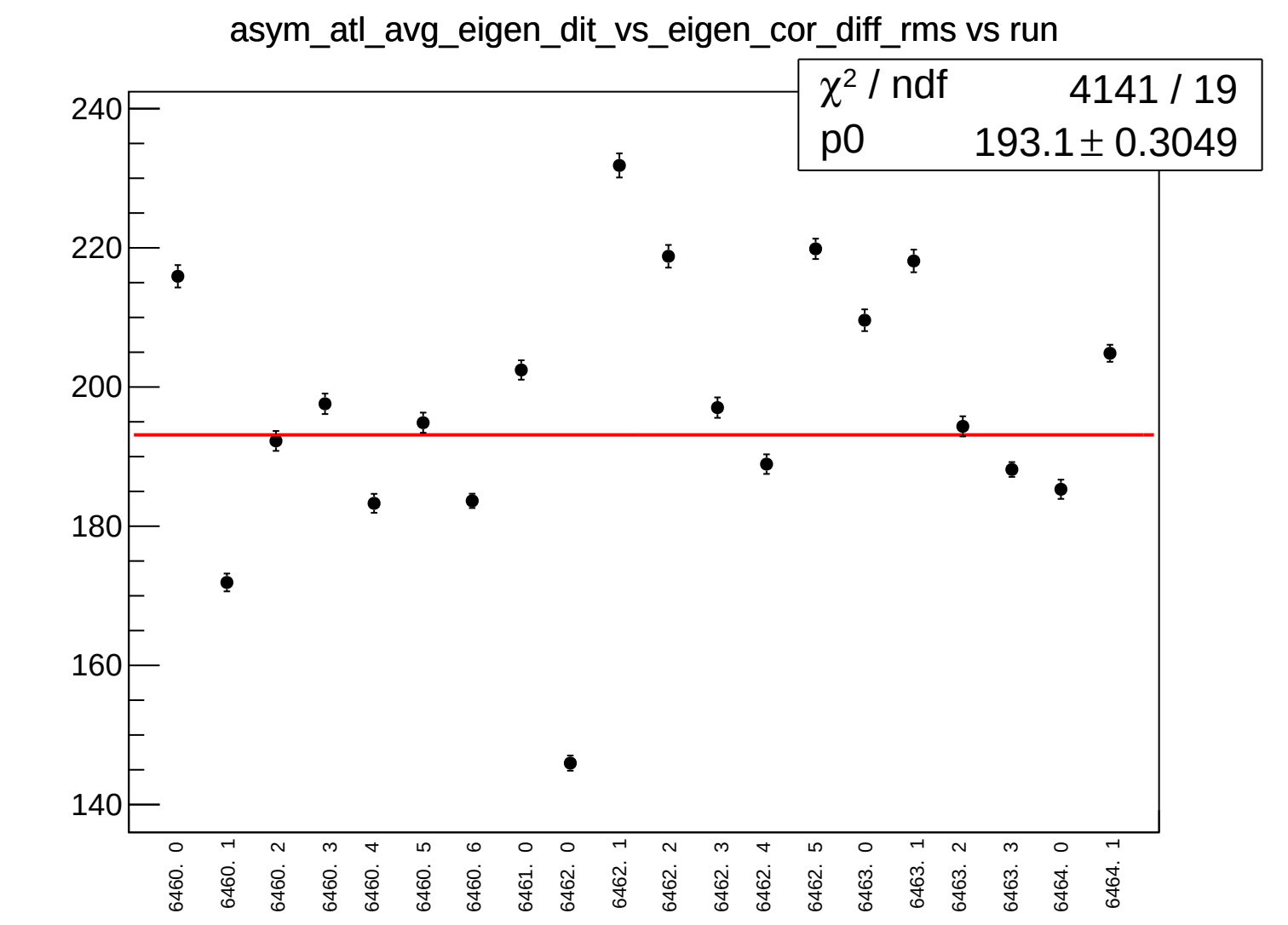

pull1D
Entries 20
Mean −0.02521
Std Dev 0.6401
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

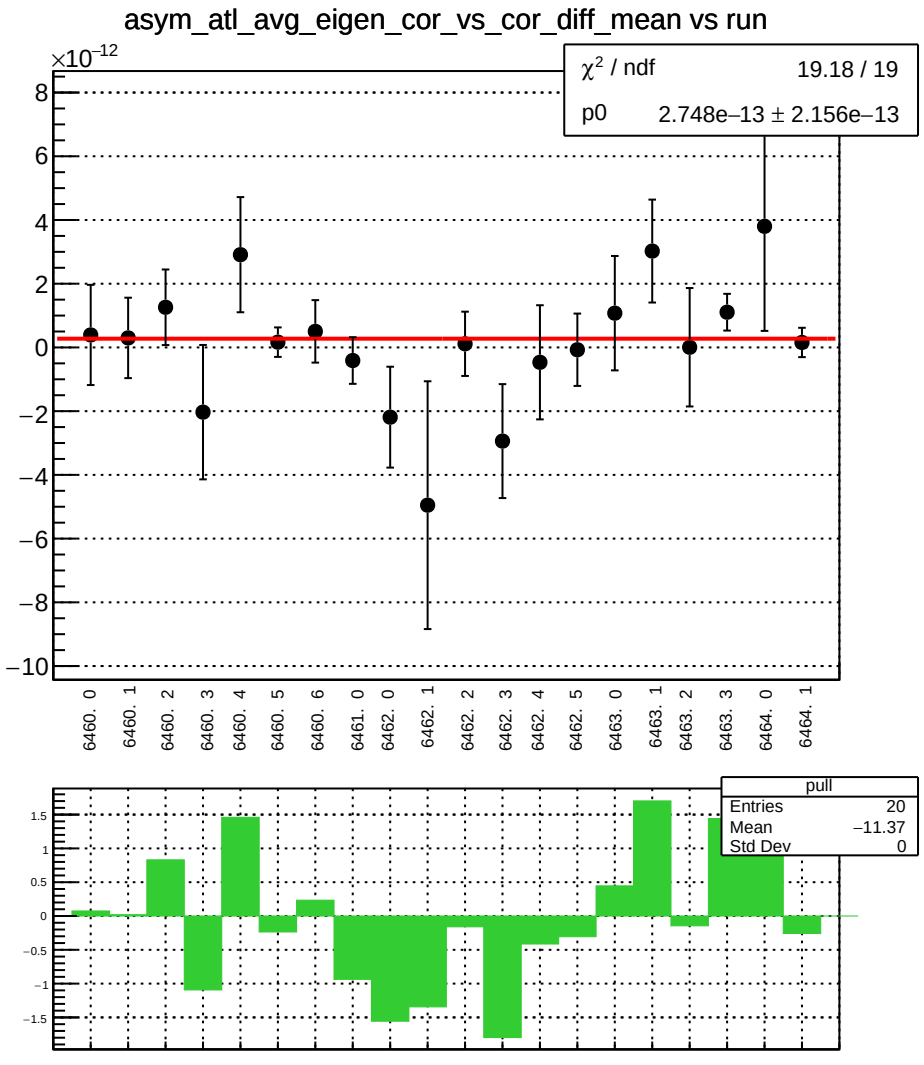

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 476.2 / 19
p0 0.01169 ± 1.838e–05
0.0126
0.0124
0.0122
0.012
0.0118
0.0116
0.0114
0.0112
0.011
0.0108
0.0106
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

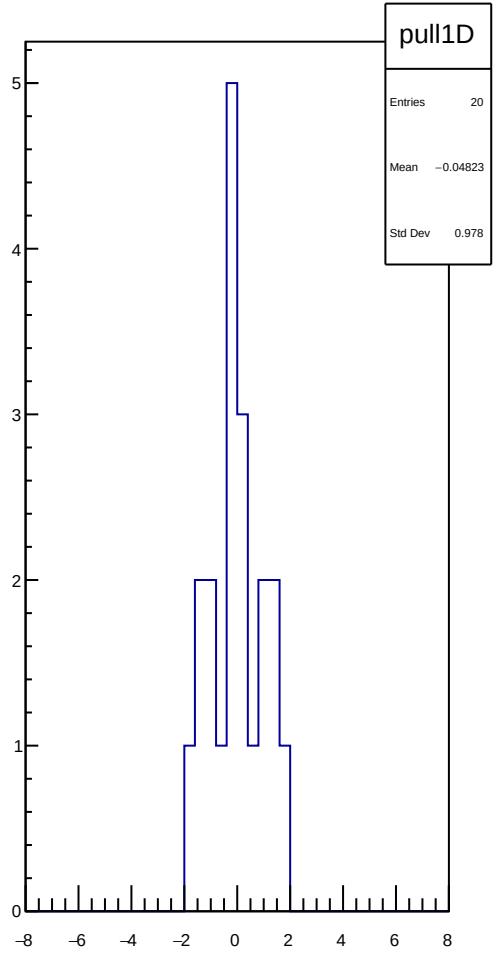

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.43 / 19
p0 −0.002272 ± 0.4313
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.238
Std Dev 0
pull1D
Entries 20
Mean −0.05069
Std Dev 1.034

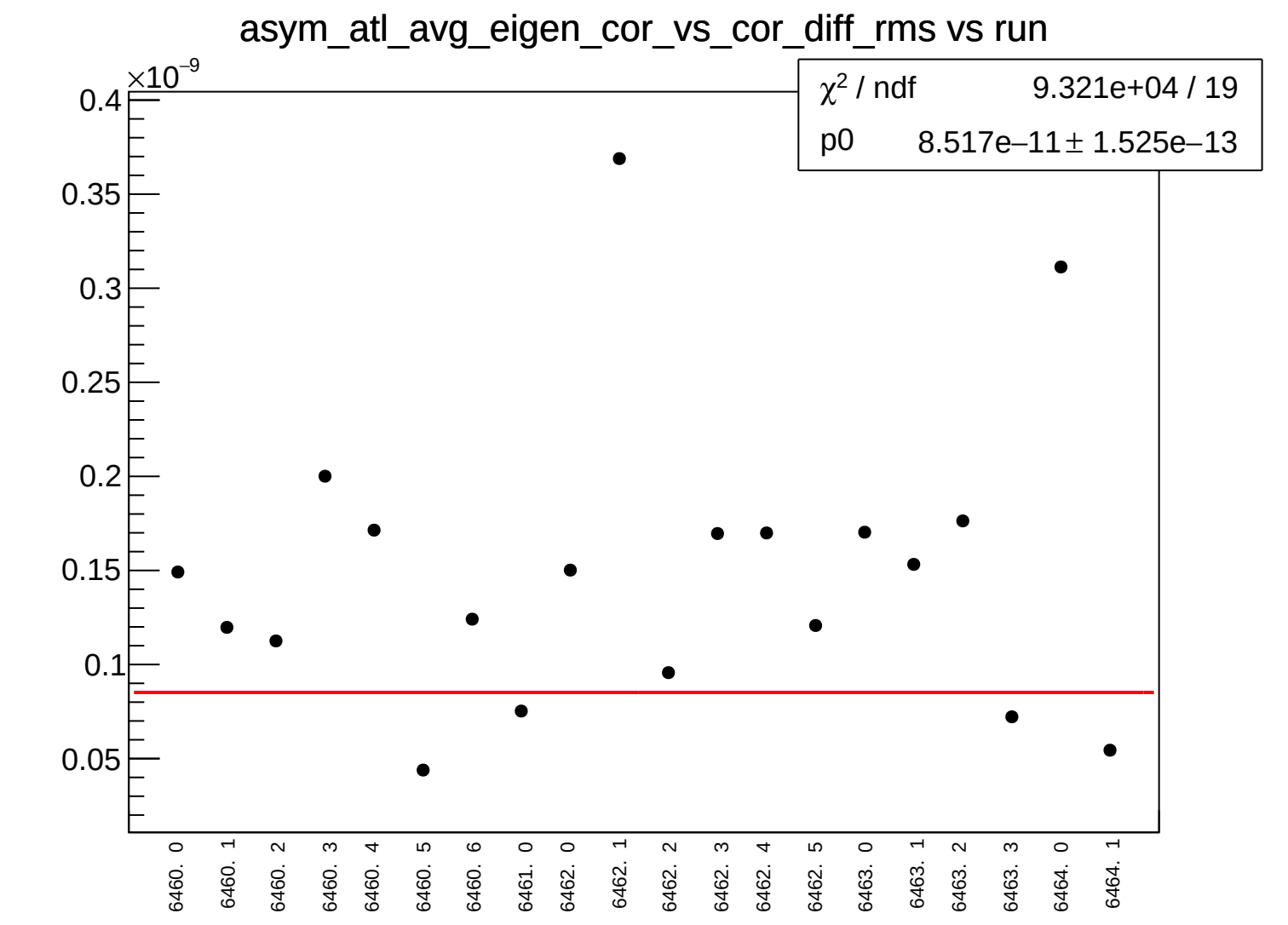

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4141 / 19
p0 193.1 ± 0.3049
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

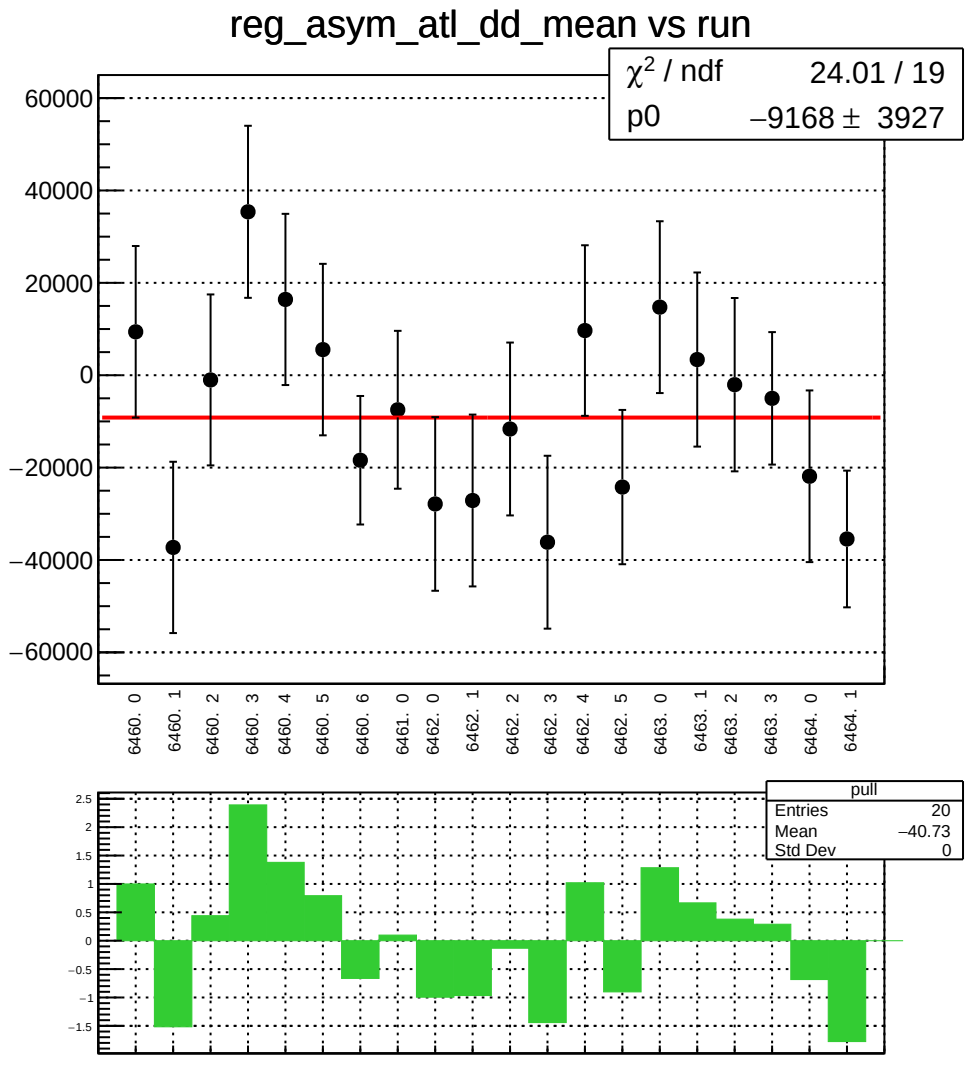

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.43 / 19
p0 −0.002272 ± 0.4313
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.238
Std Dev 0
pull1D
Entries 20
Mean −0.05069
Std Dev 1.034

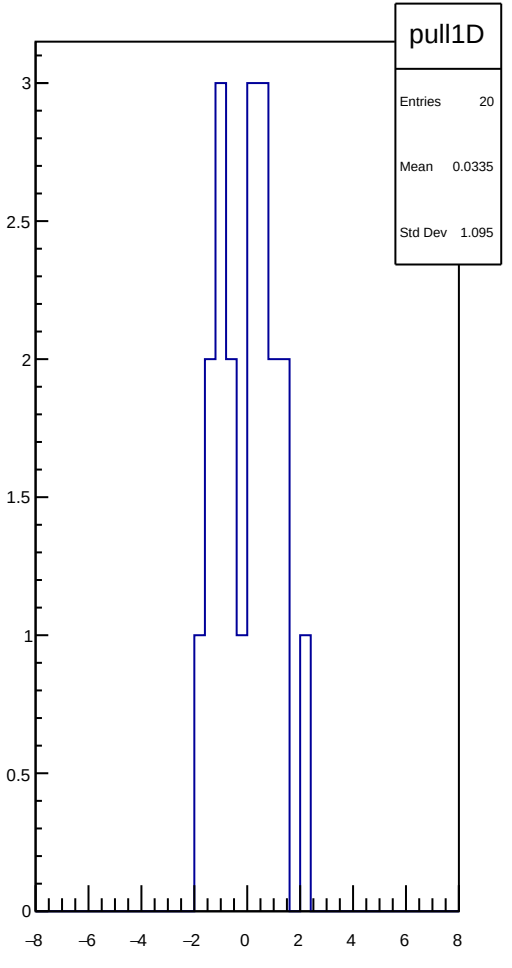

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4141 / 19
p0 193.1 ± 0.3049
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

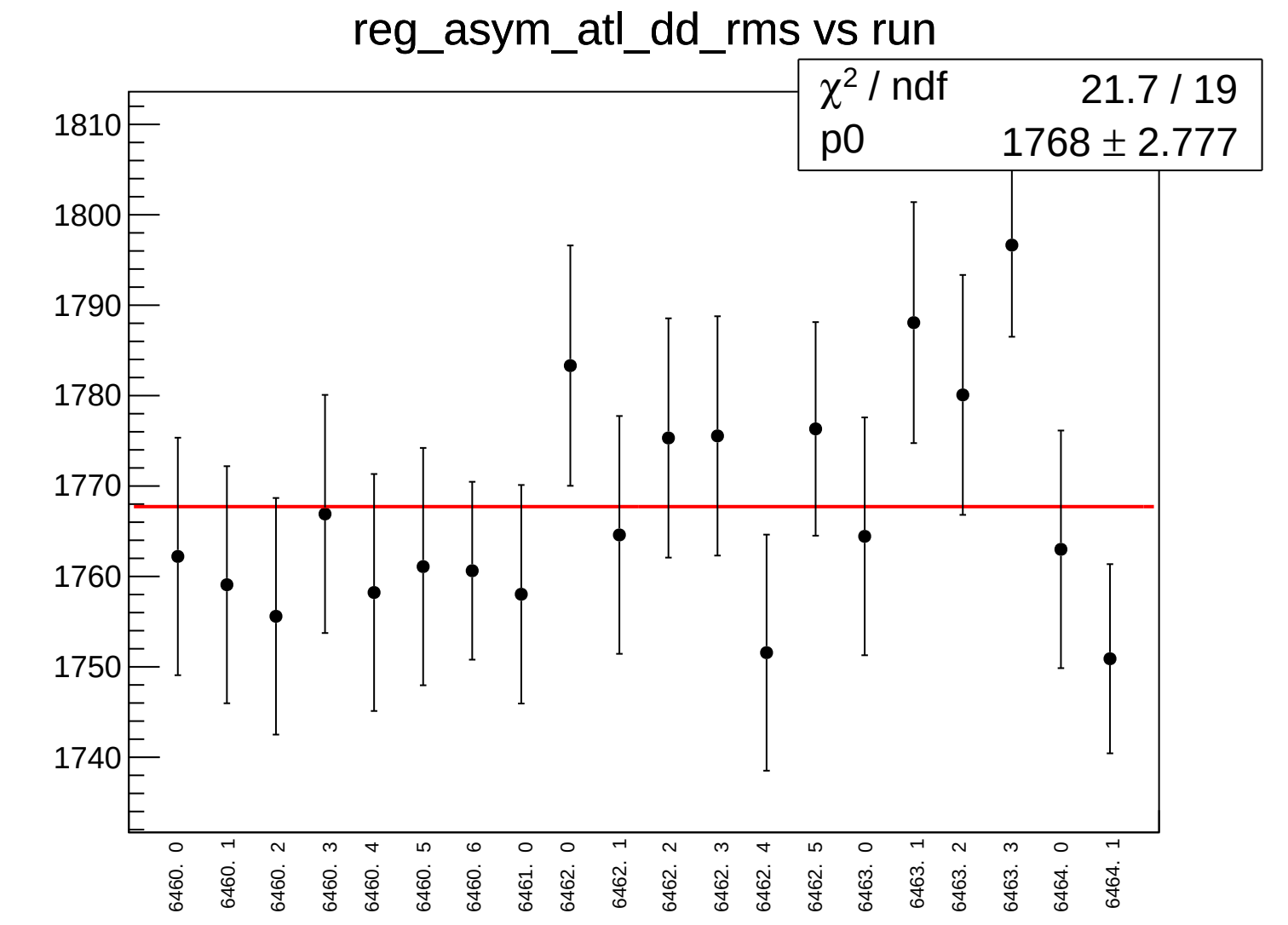

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.18 / 19
p0 2.748e−13 ± 2.156e−13
8
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −11.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

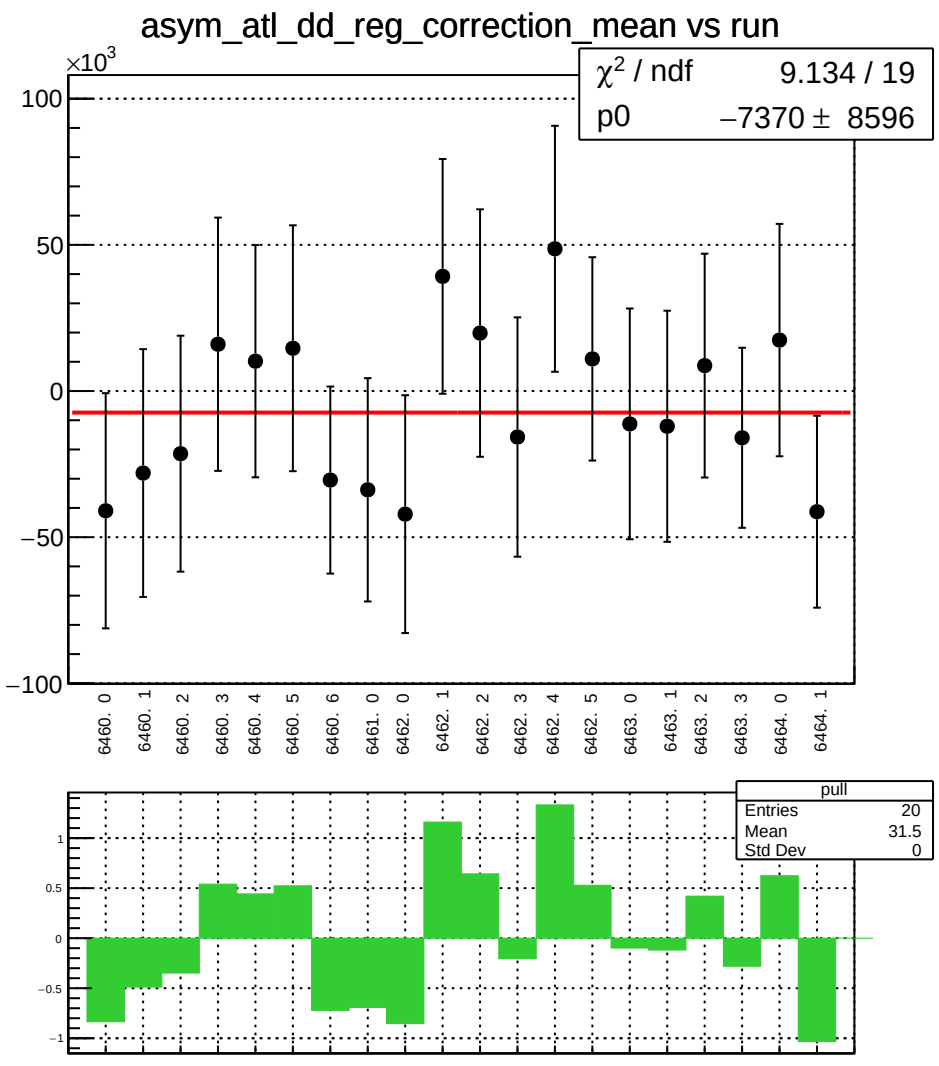

pull1D
Entries 20
Mean −0.04823
Std Dev 0.978
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

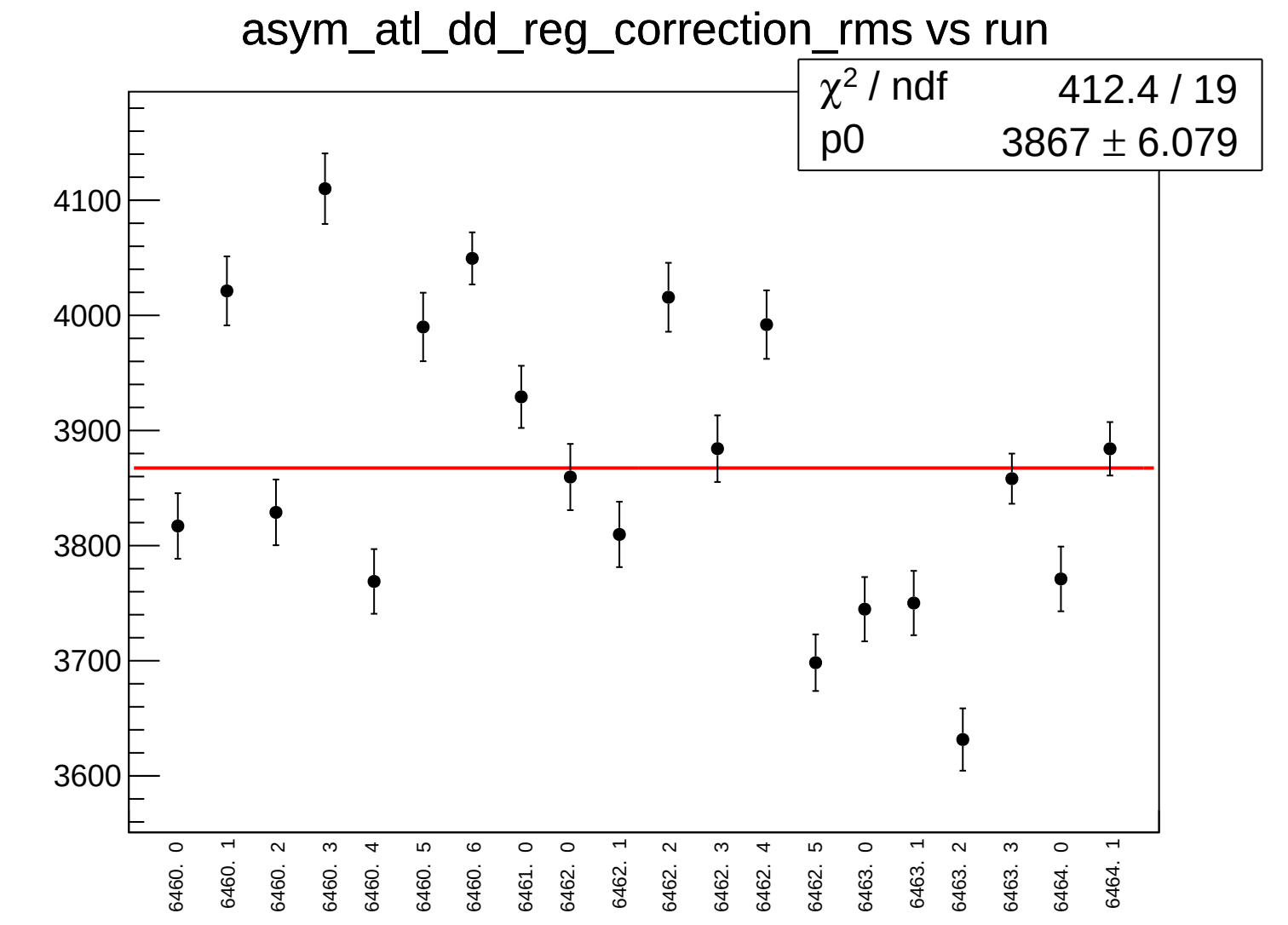

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.321e+04 / 19
p0 8.517e−11 ± 1.525e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

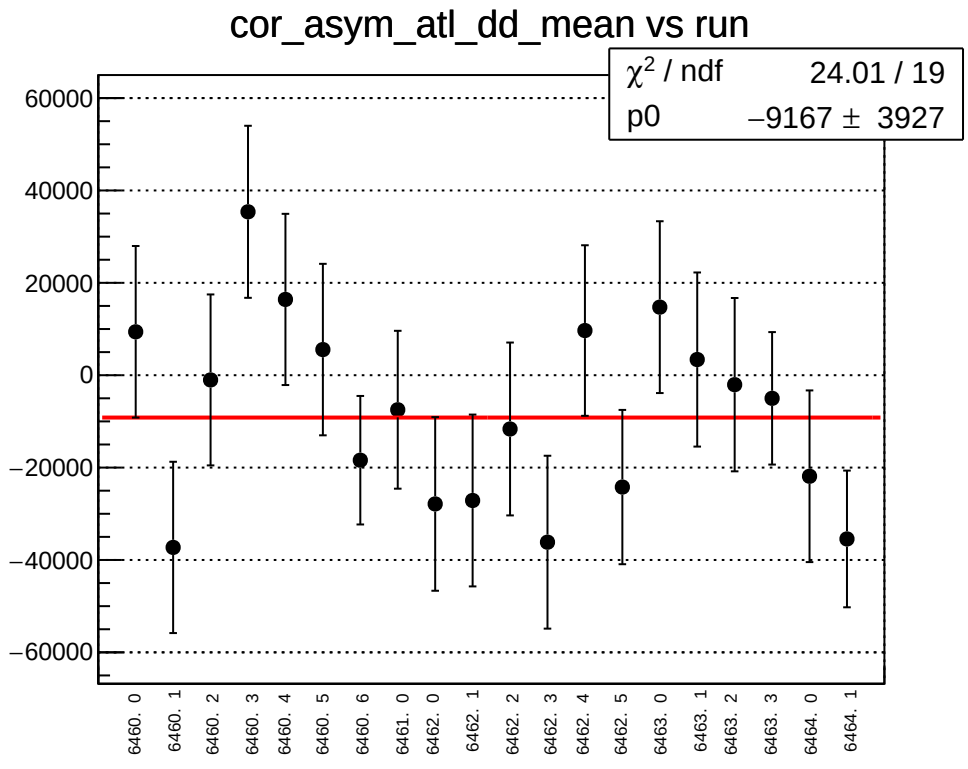

reg_asym_atl_dd_mean vs run
χ² / ndf 24.01 / 19
p0 −9168 ± 3927
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −40.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

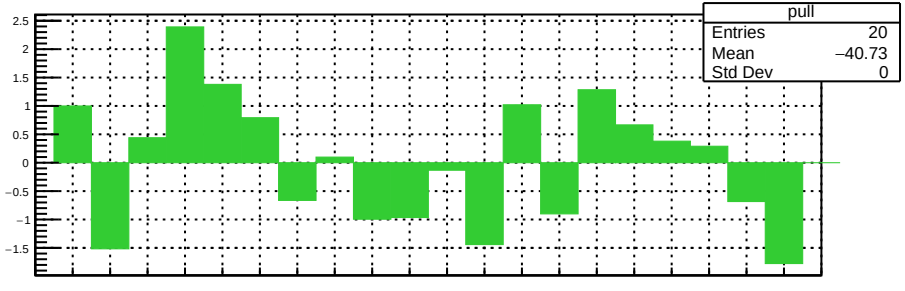

pull1D
Entries 20
Mean 0.0335
Std Dev 1.095
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

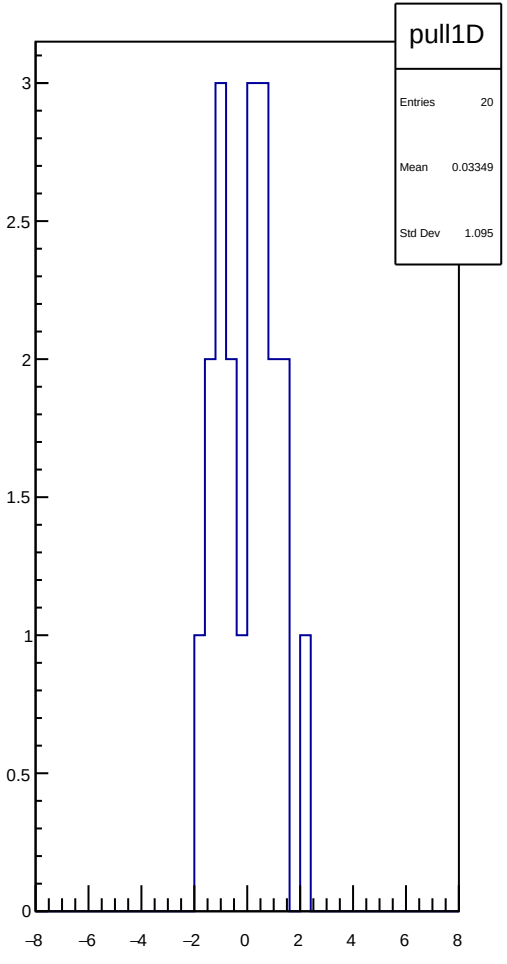

reg_asym_atl_dd_rms vs run
χ² / ndf 21.7 / 19
p0 1768 ± 2.777
1810
1800
1790
1780
1770
1760
1750
1740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

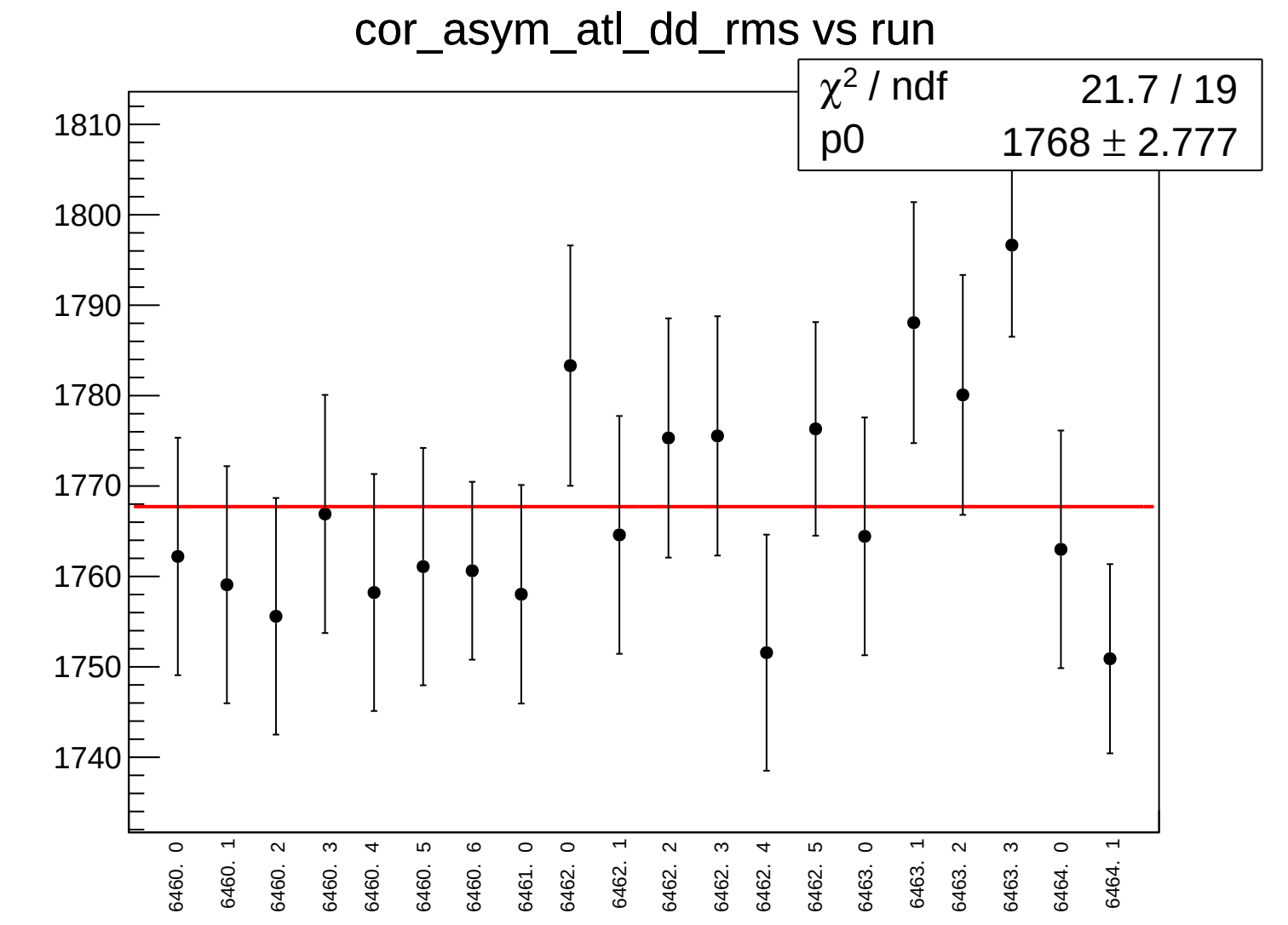

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 9.134 / 19
p0 −7370 ± 8596
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02691
Std Dev 0.6753
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

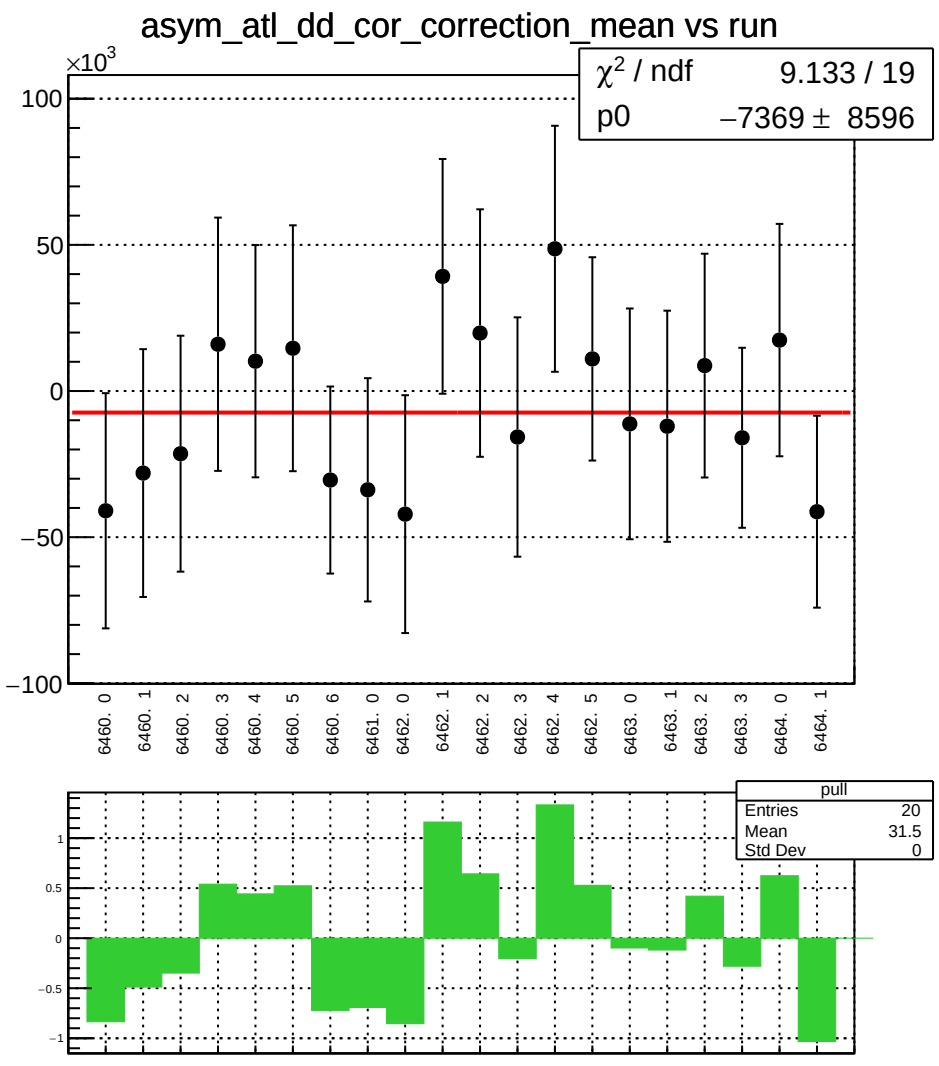

asym_atl_dd_reg_correction_rms vs run
χ^2 / ndf 412.4 / 19
p0 3867 ± 6.079
4100
4000
3900
3800
3700
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

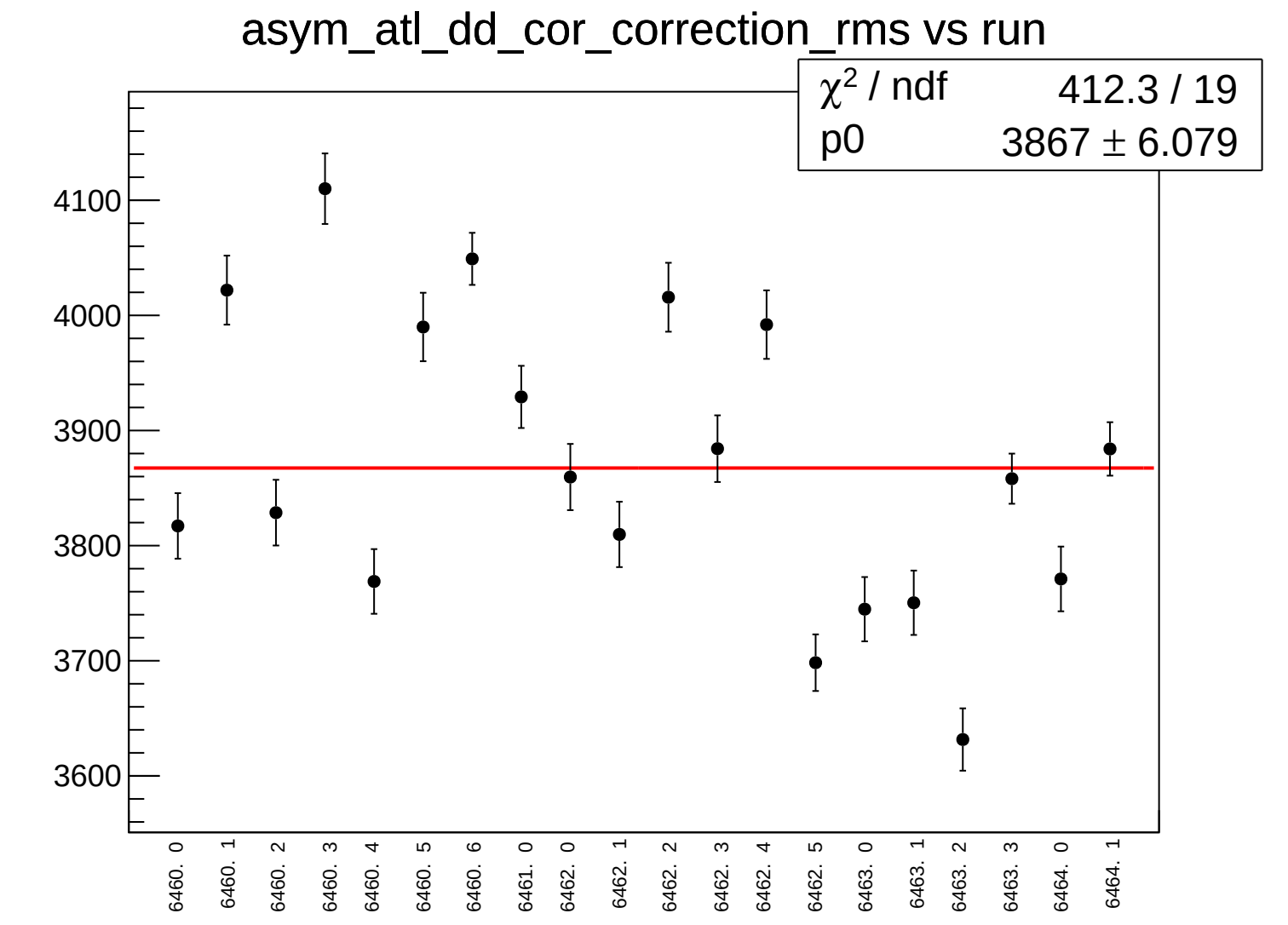

cor_asym_atl_dd_mean vs run
χ² / ndf 24.01 / 19
p0 −9167 ± 3927
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

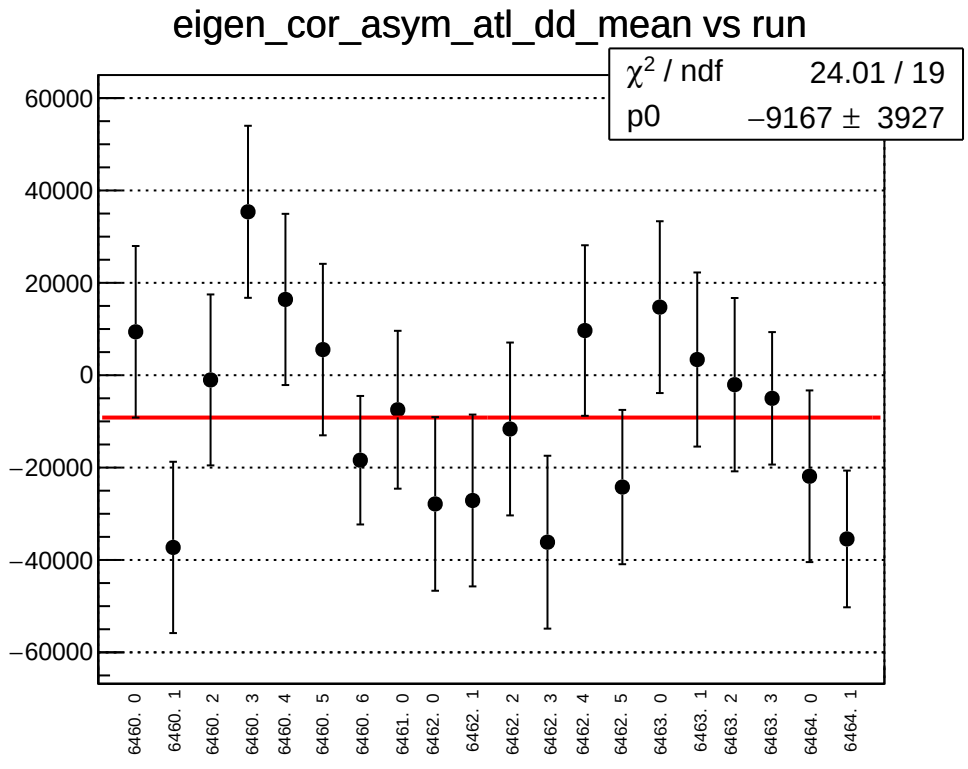

pull
Entries 20
Mean −40.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

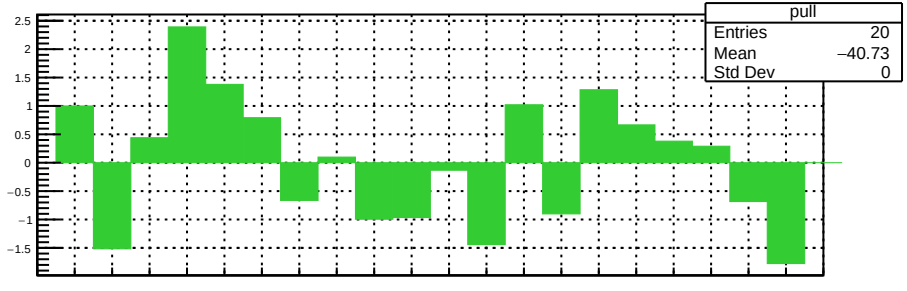

pull1D
Entries 20
Mean 0.03349
Std Dev 1.095
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

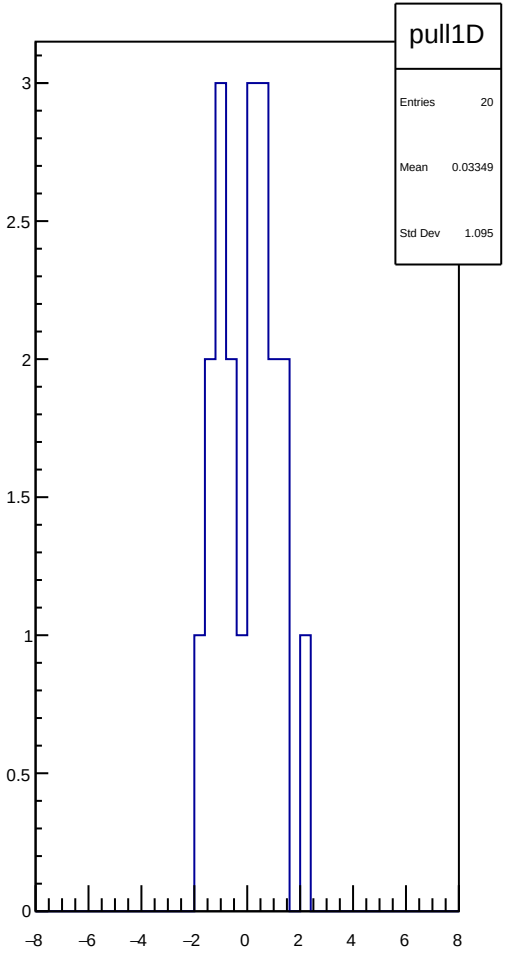

cor_asym_atl_dd_rms vs run
χ² / ndf 21.7 / 19
p0 1768 ± 2.777
1810
1800
1790
1780
1770
1760
1750
1740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

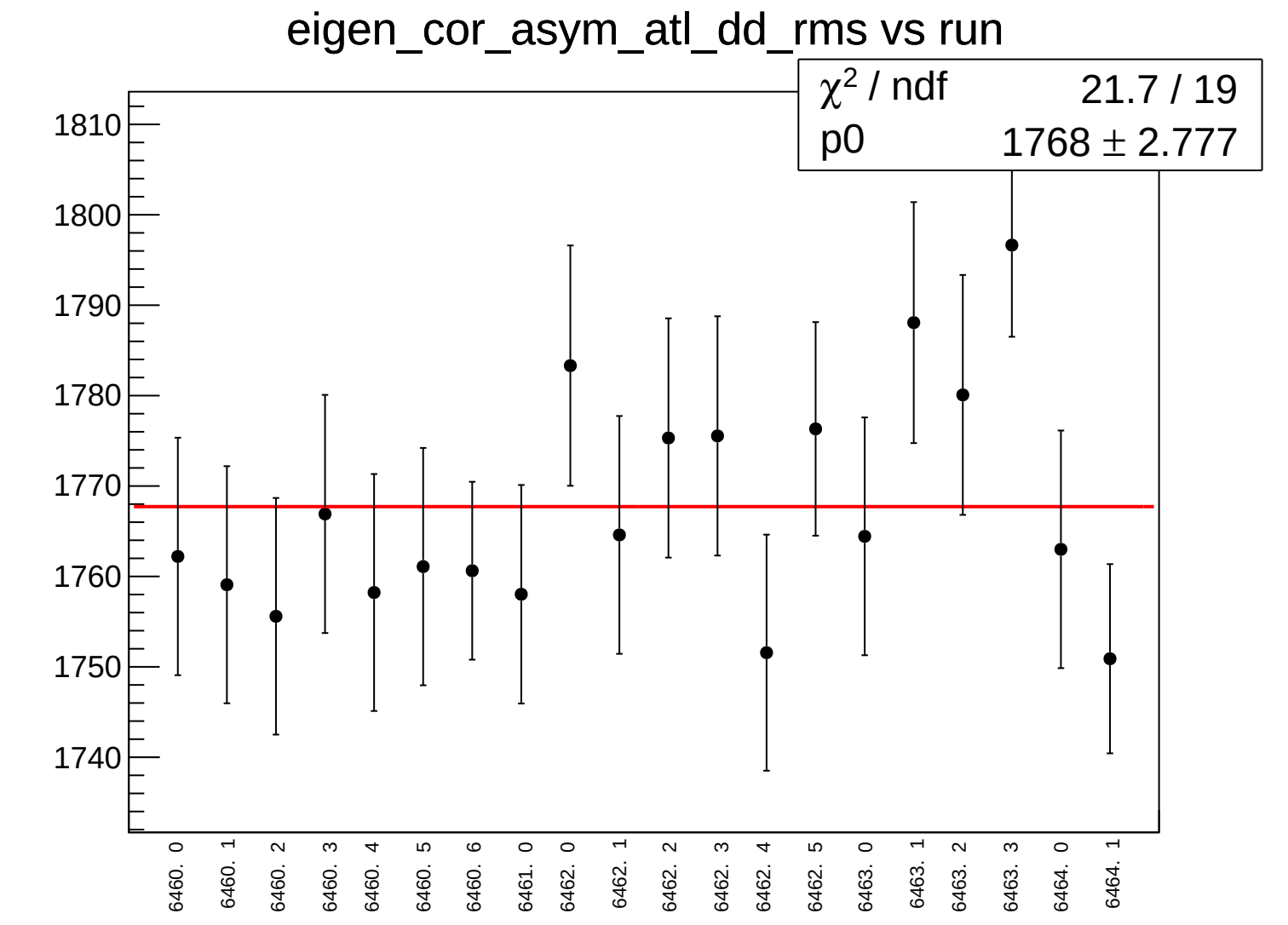

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 9.133 / 19
p0 −7369 ± 8596
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02691
Std Dev 0.6752
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

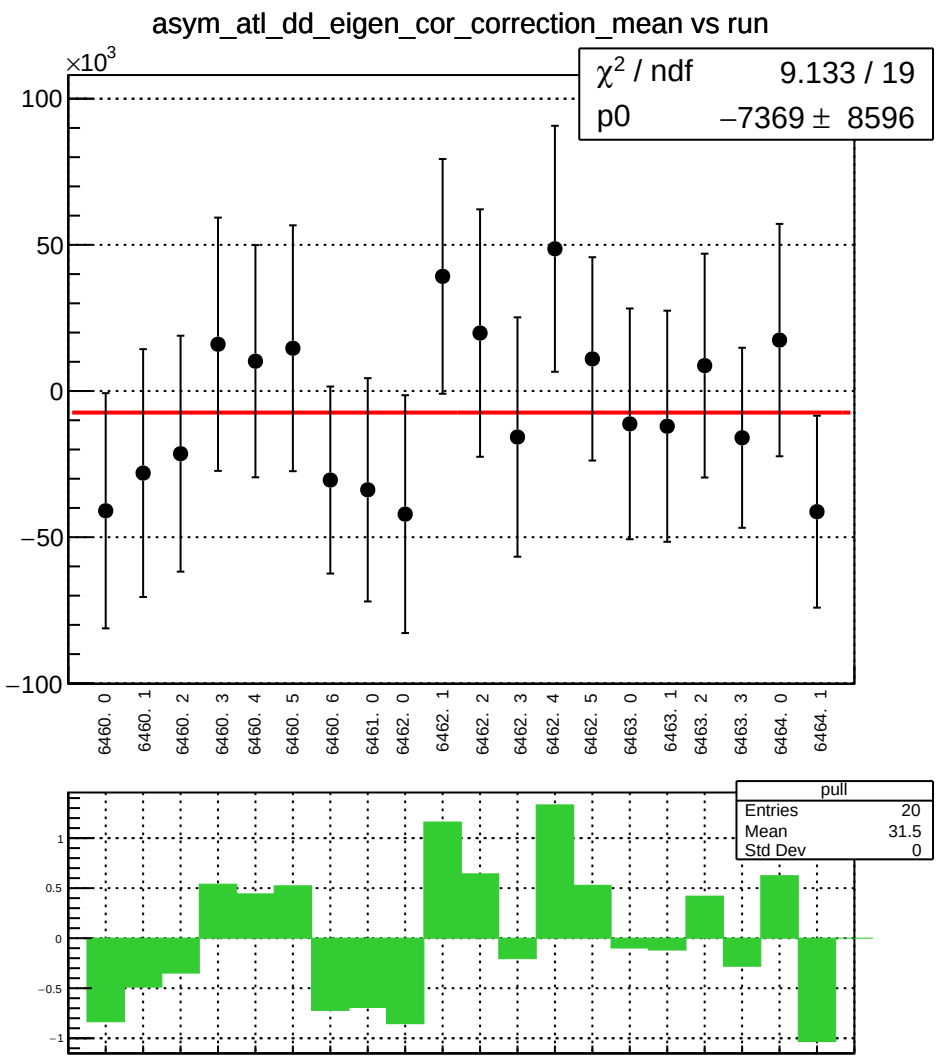

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 412.3 / 19
p0 3867 ± 6.079
4100
4000
3900
3800
3700
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

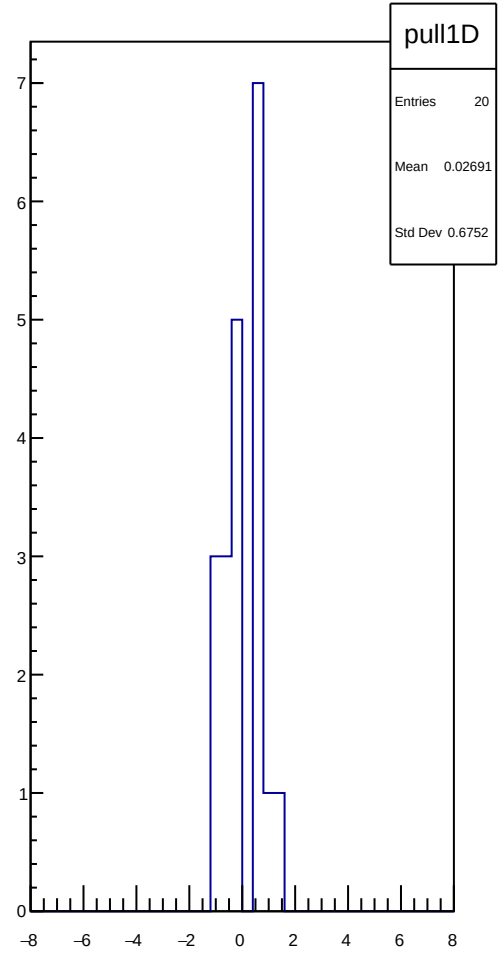

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 24.01 / 19
p0 −9167 ± 3927
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

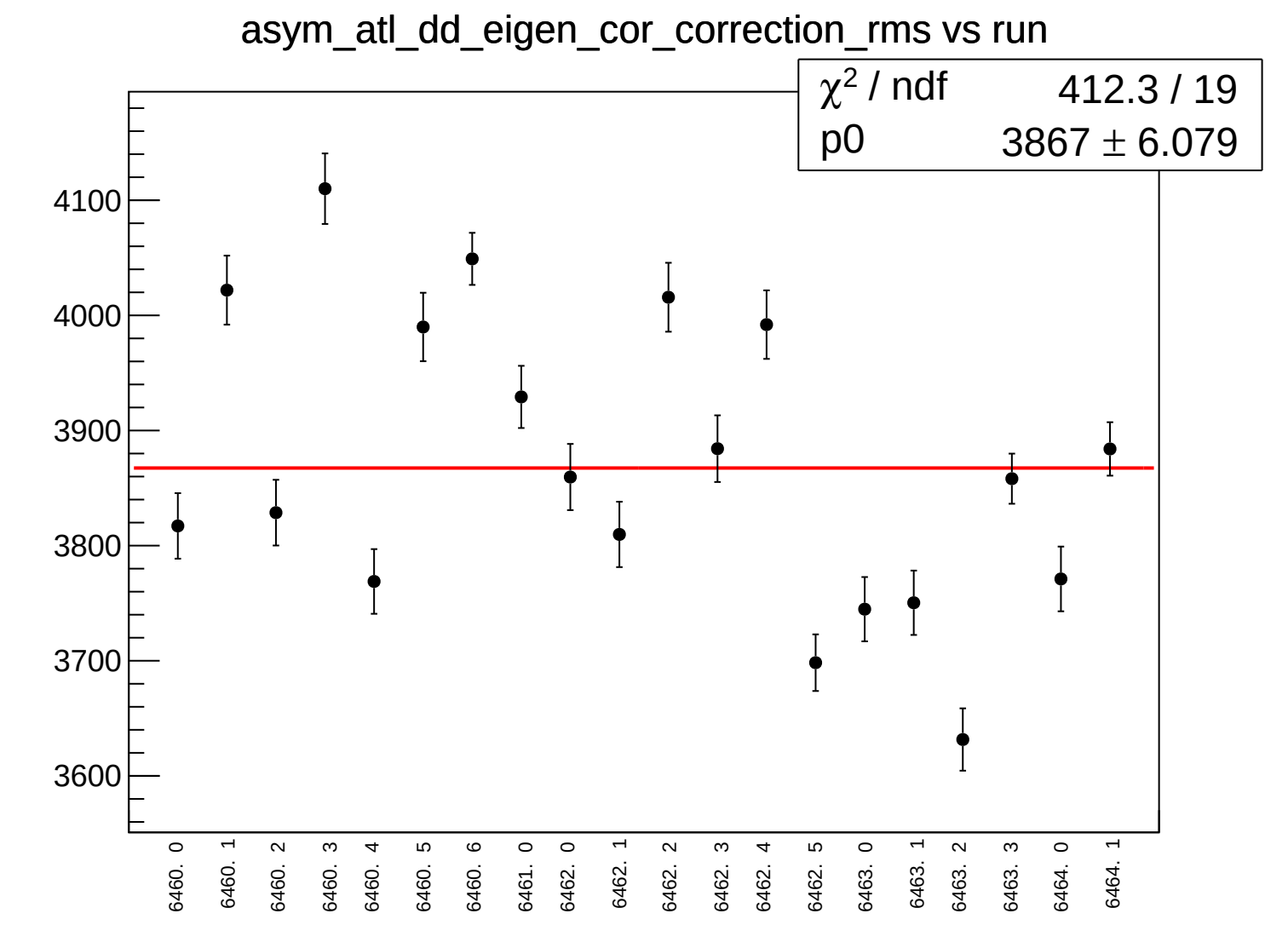

pull
Entries 20
Mean −40.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

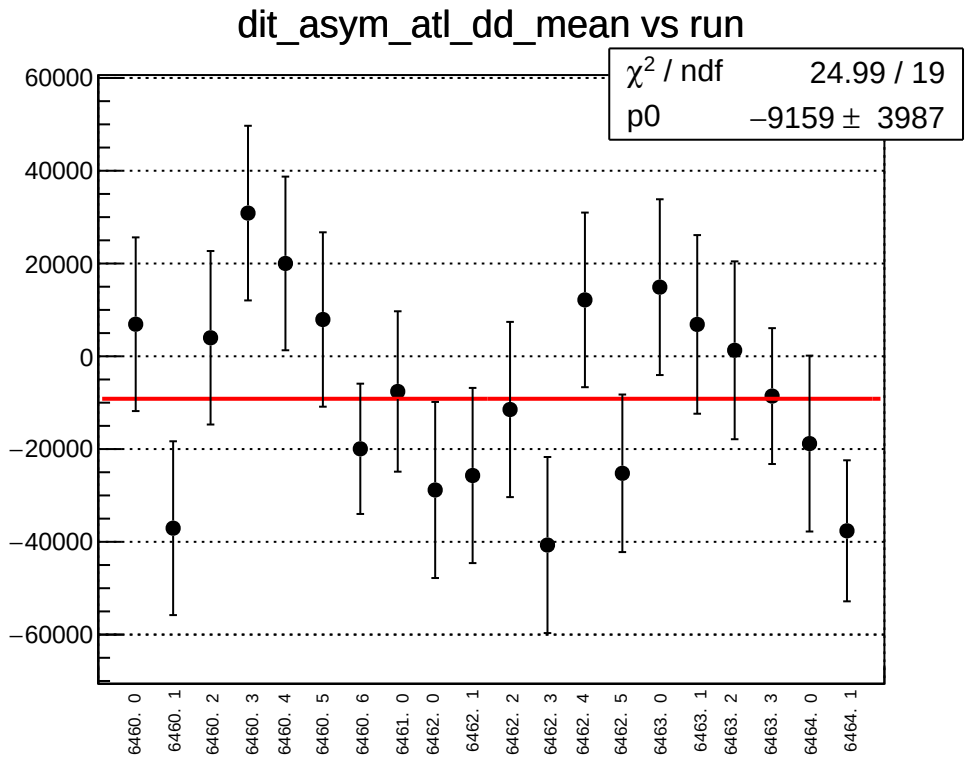

pull1D
Entries 20
Mean 0.03349
Std Dev 1.095
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

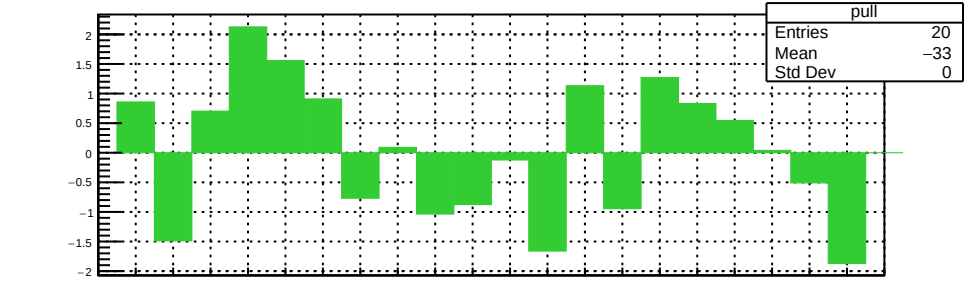

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 21.7 / 19
p0 1768 ± 2.777
1810
1800
1790
1780
1770
1760
1750
1740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

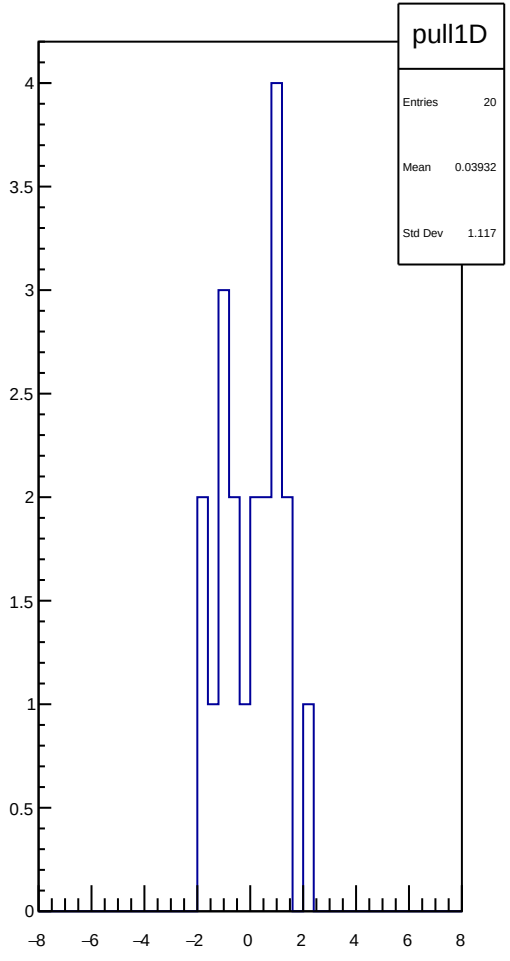

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 9.133 / 19
p0 −7369 ± 8596
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.5
Std Dev 0
1
0.5
0
−0.5
−1

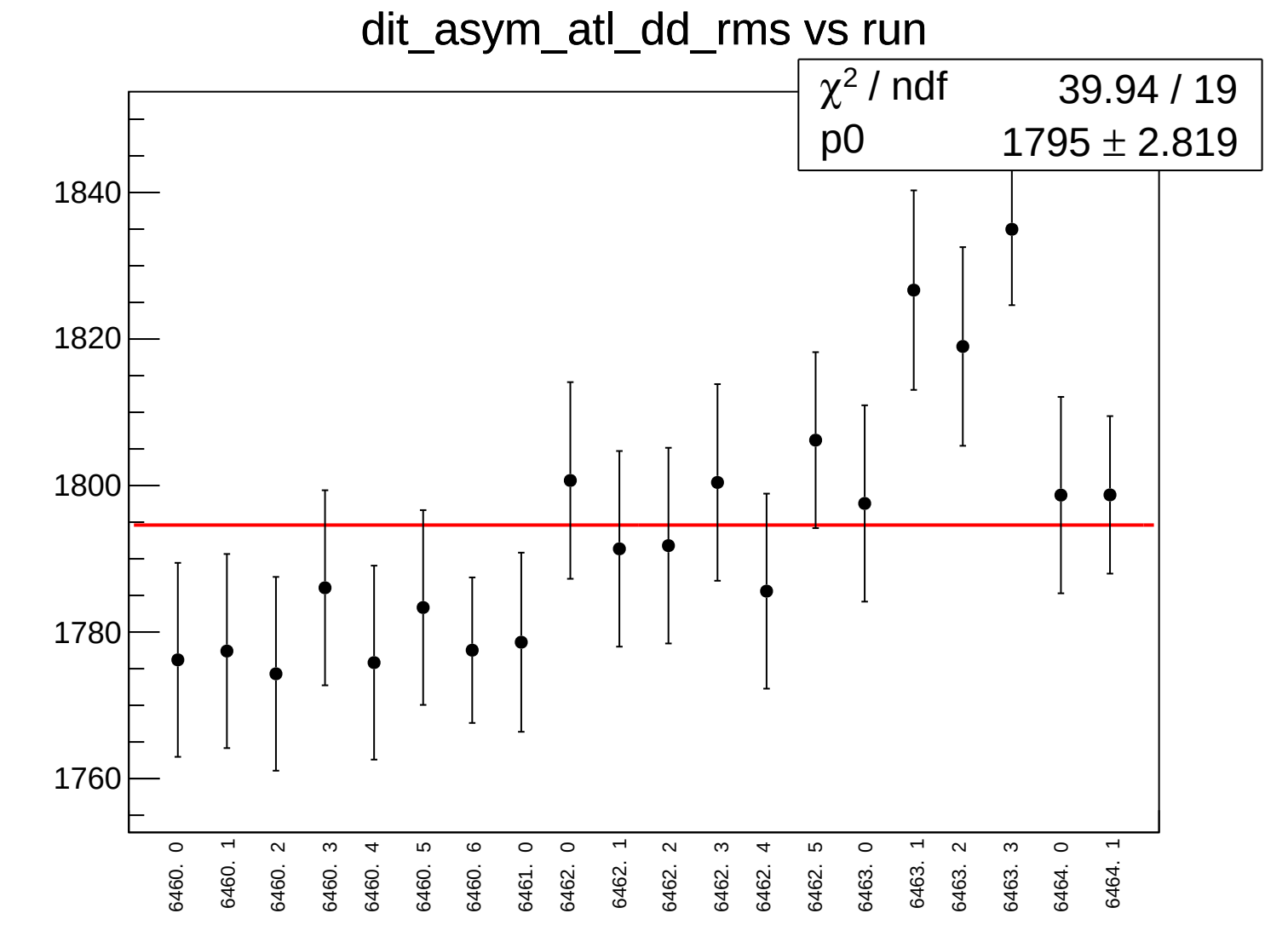

pull1D
Entries 20
Mean 0.02691
Std Dev 0.6752
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

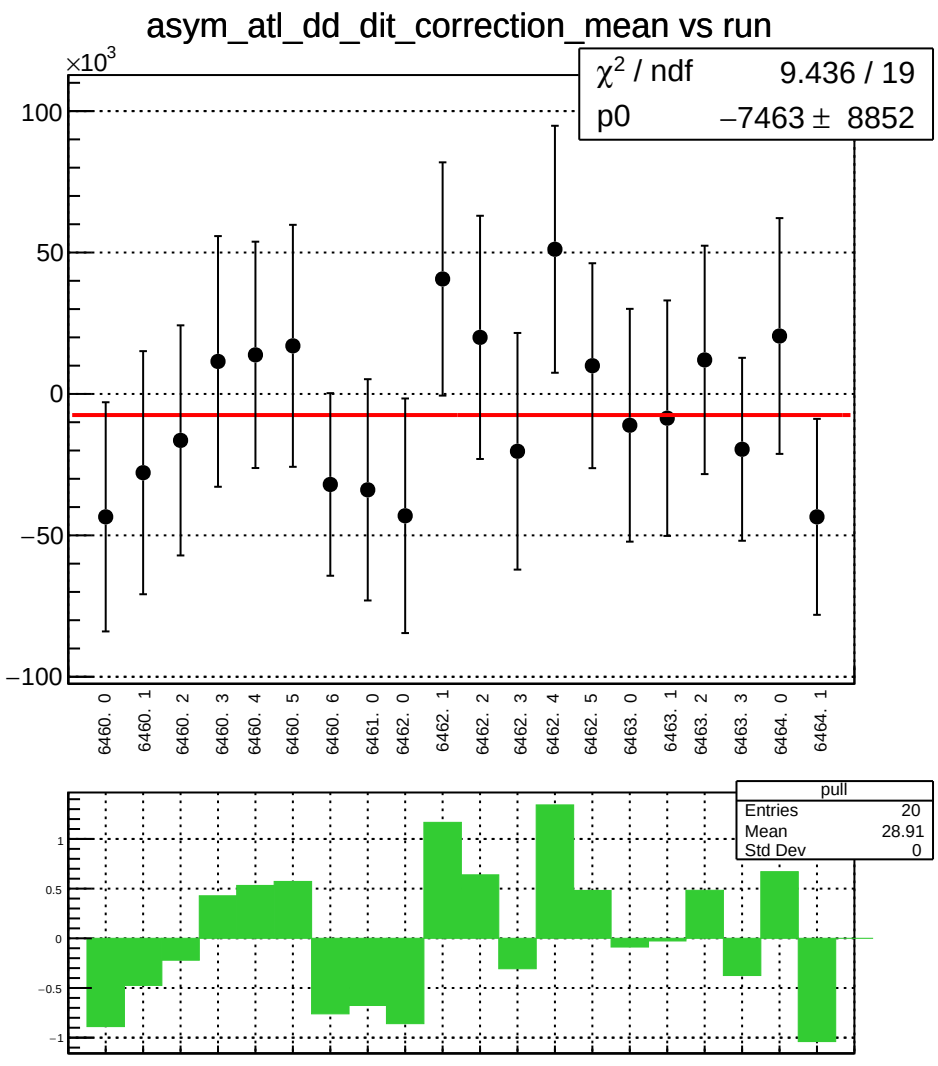

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 412.3 / 19
p0 3867 ± 6.079
4100
4000
3900
3800
3700
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

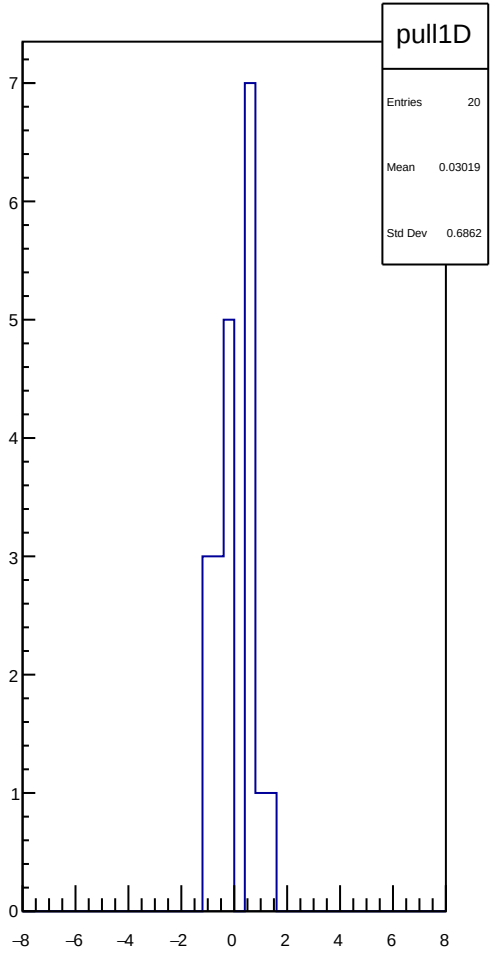

dit_asym_atl_dd_mean vs run
χ² / ndf 24.99 / 19
p0 −9159 ± 3987
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

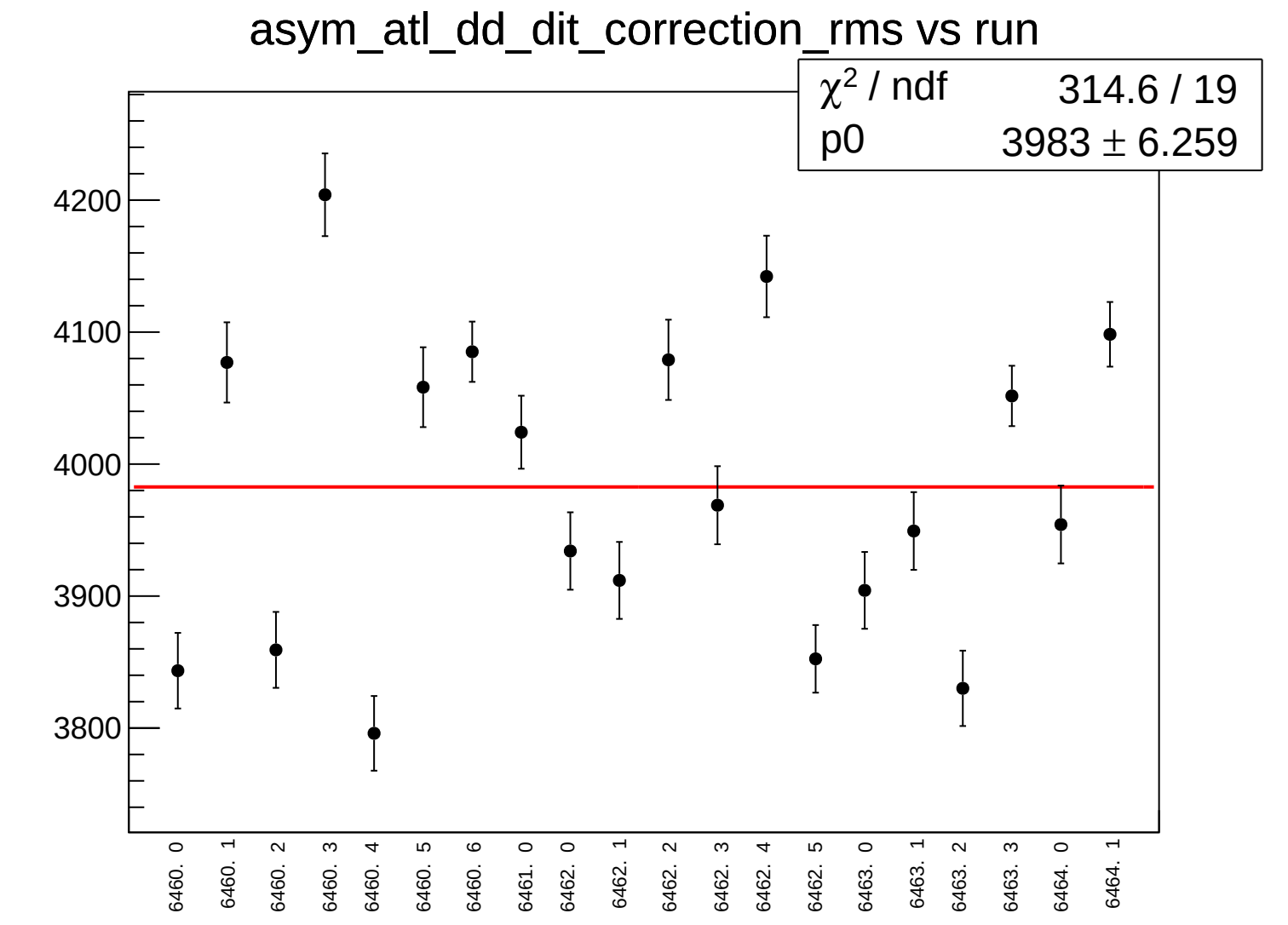

pull
Entries 20
Mean −33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

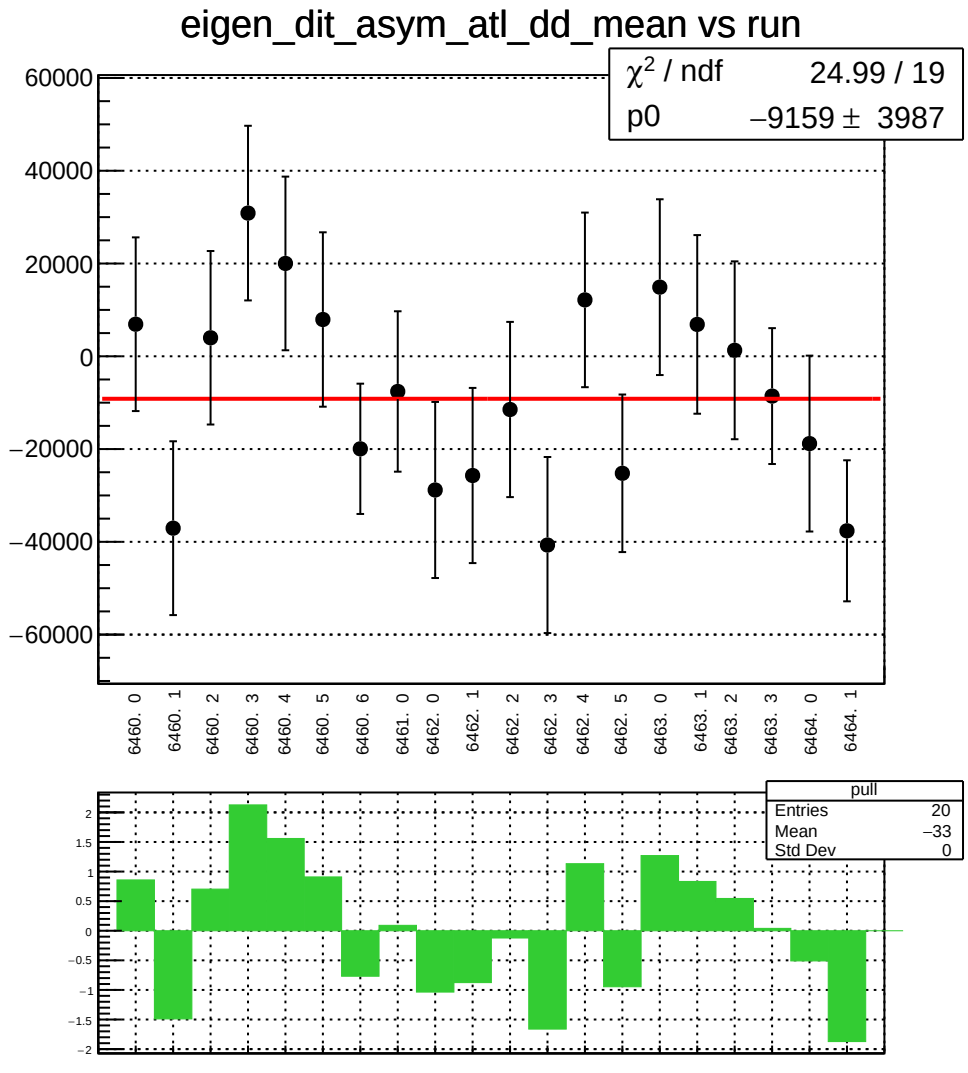

pull1D
Entries 20
Mean 0.03932
Std Dev 1.117
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

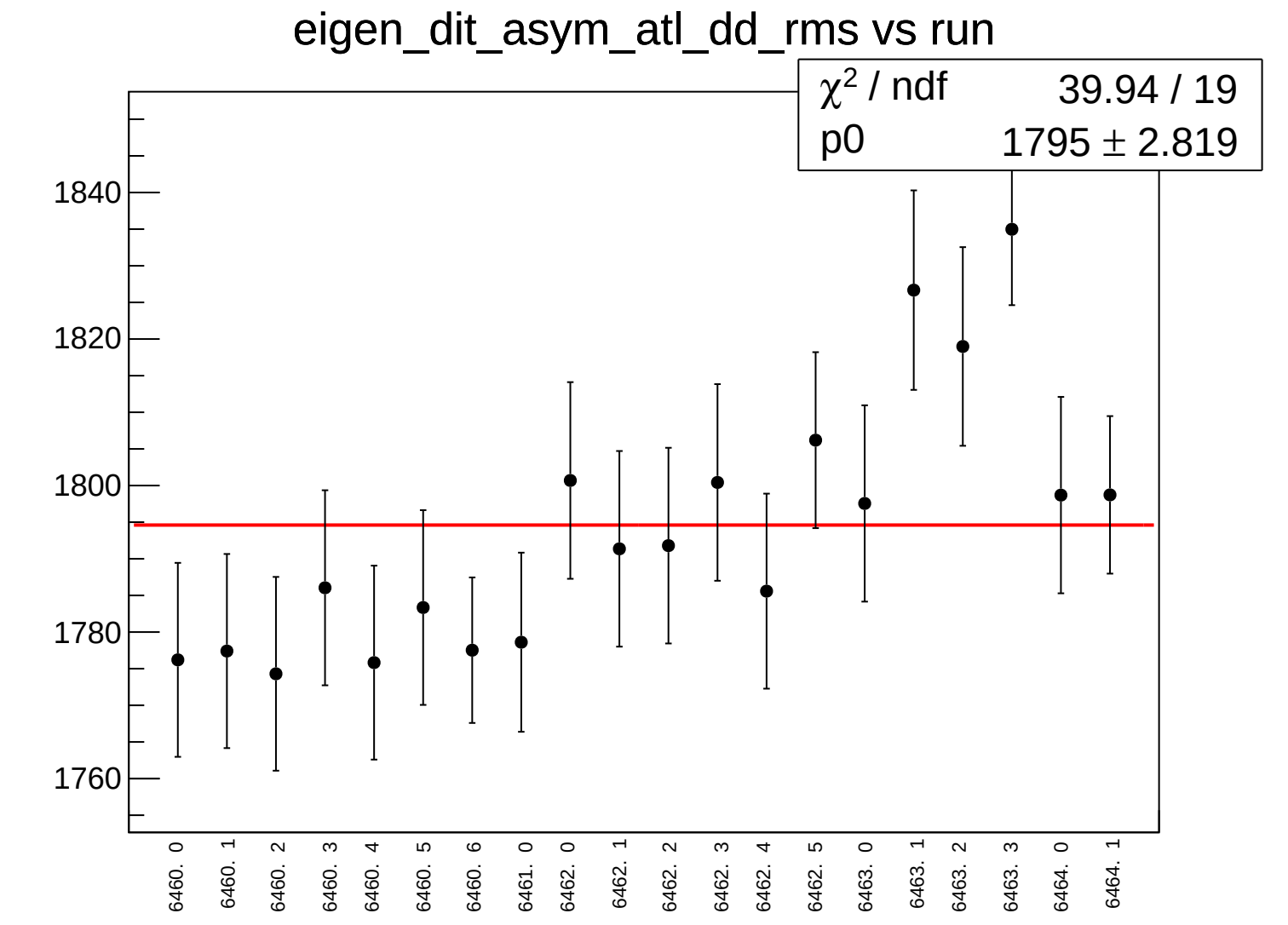

dit_asym_atl_dd_rms vs run
χ² / ndf 39.94 / 19
p0 1795 ± 2.819
1840
1820
1800
1780
1760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

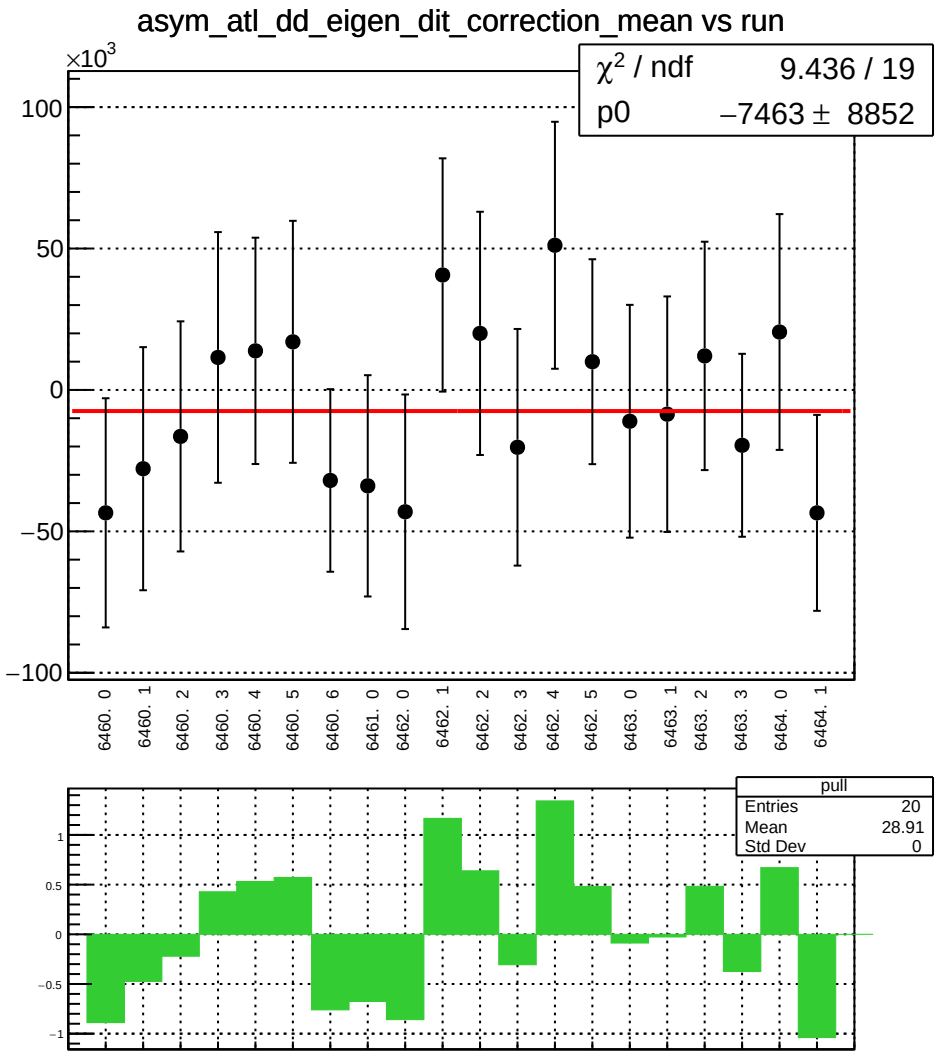

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 9.436 / 19
p0 −7463 ± 8852
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 28.91
Std Dev 0
1
0.5
0
−0.5
−1

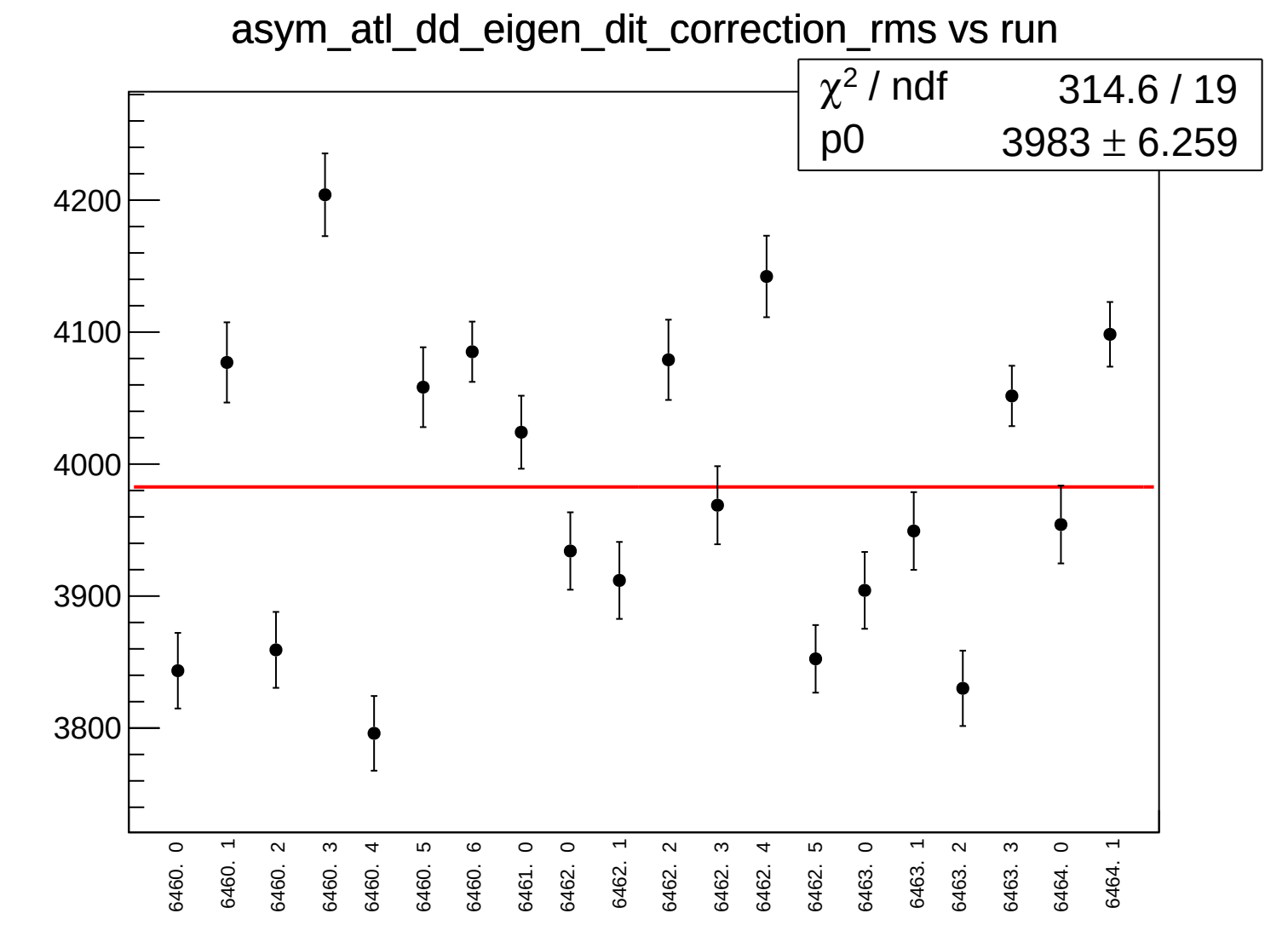

pull1D
Entries 20
Mean 0.03019
Std Dev 0.6862
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

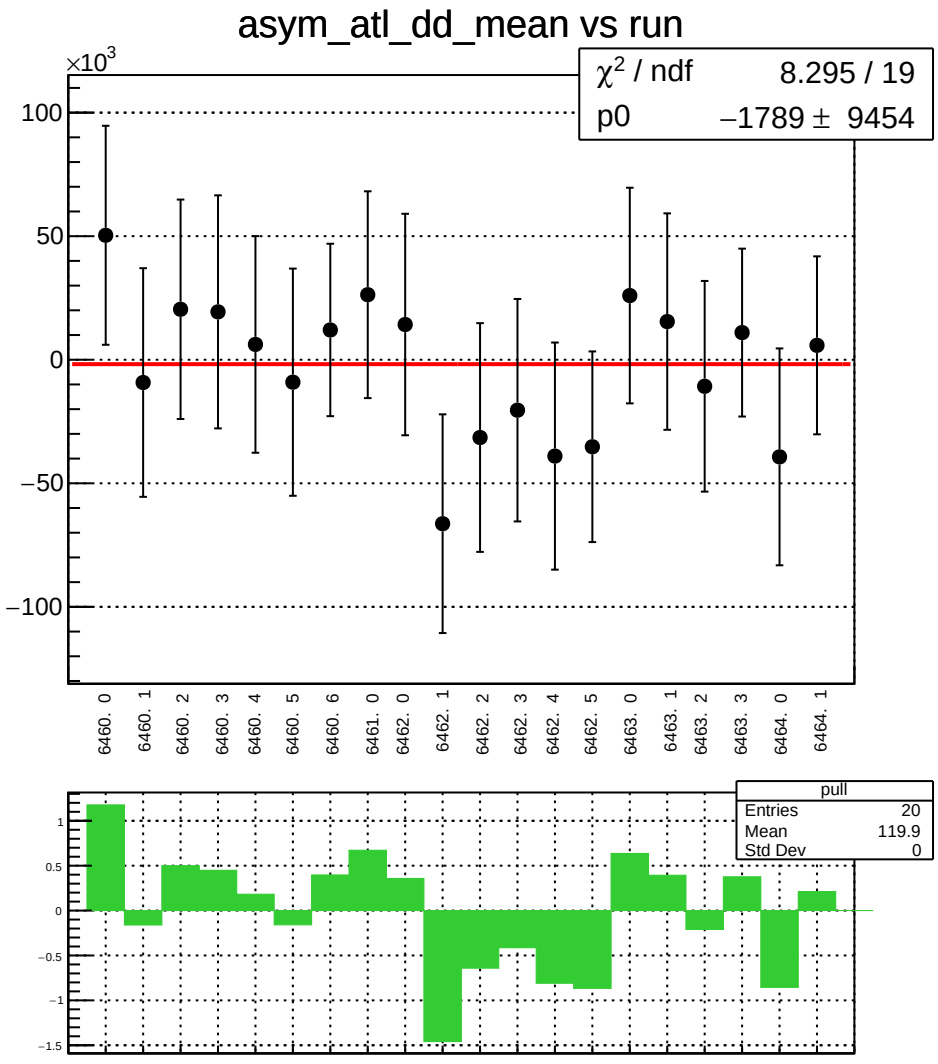

asym_atl_dd_dit_correction_rms vs run
χ^2 / ndf 314.6 / 19
p0 3983 ± 6.259
4200
4100
4000
3900
3800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

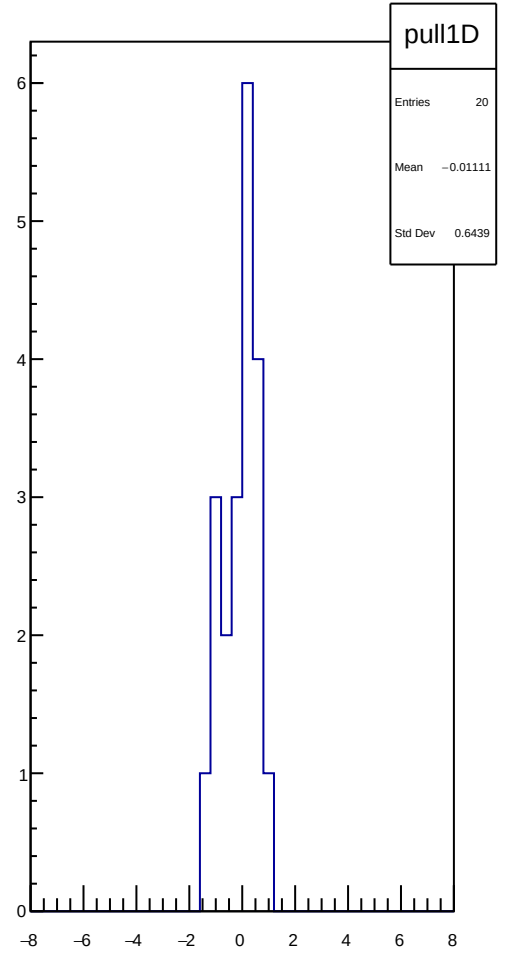

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 24.99 / 19
p0 −9159 ± 3987
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.03932
Std Dev 1.117
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

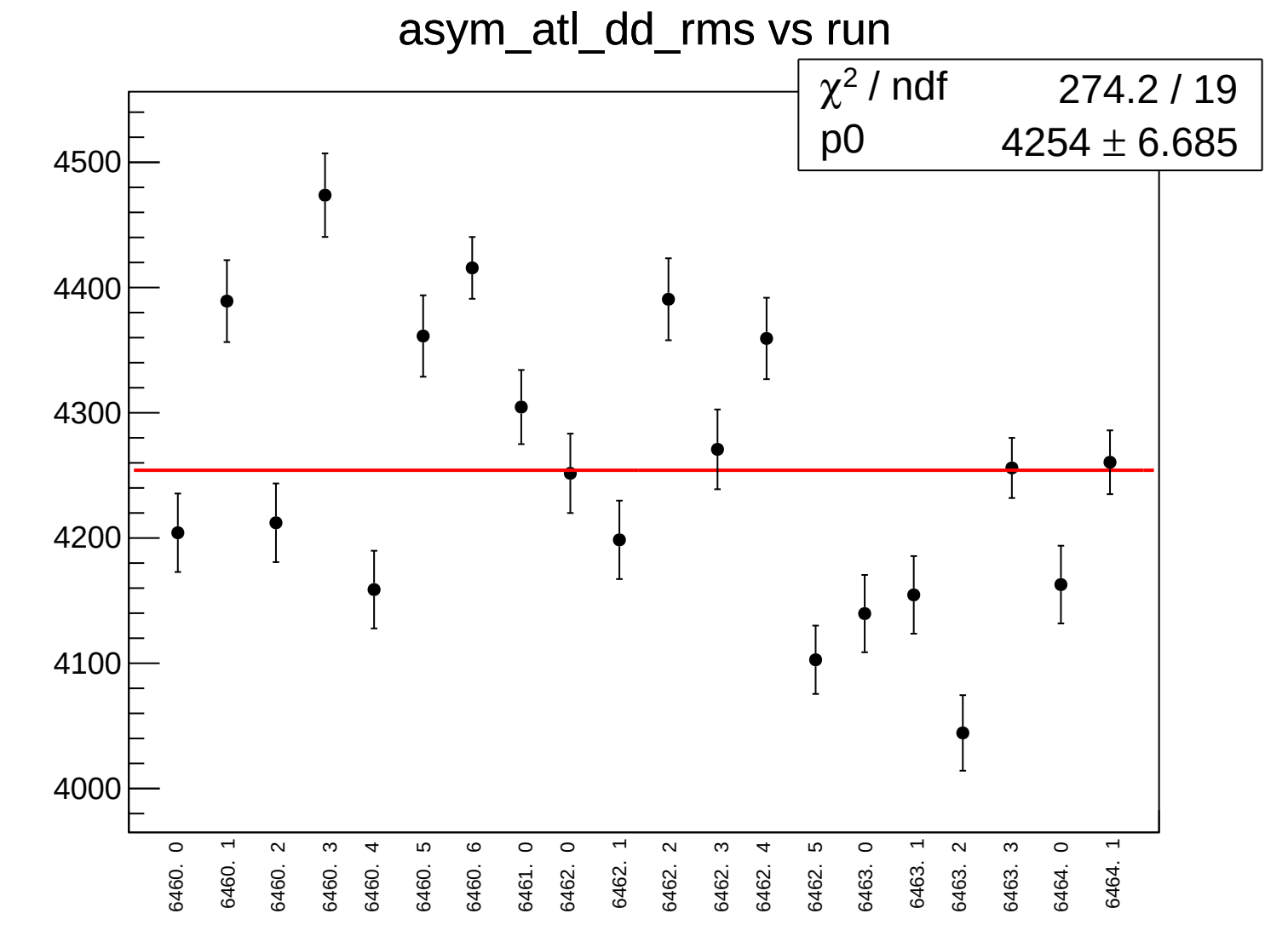

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 39.94 / 19
p0 1795 ± 2.819
1840
1820
1800
1780
1760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

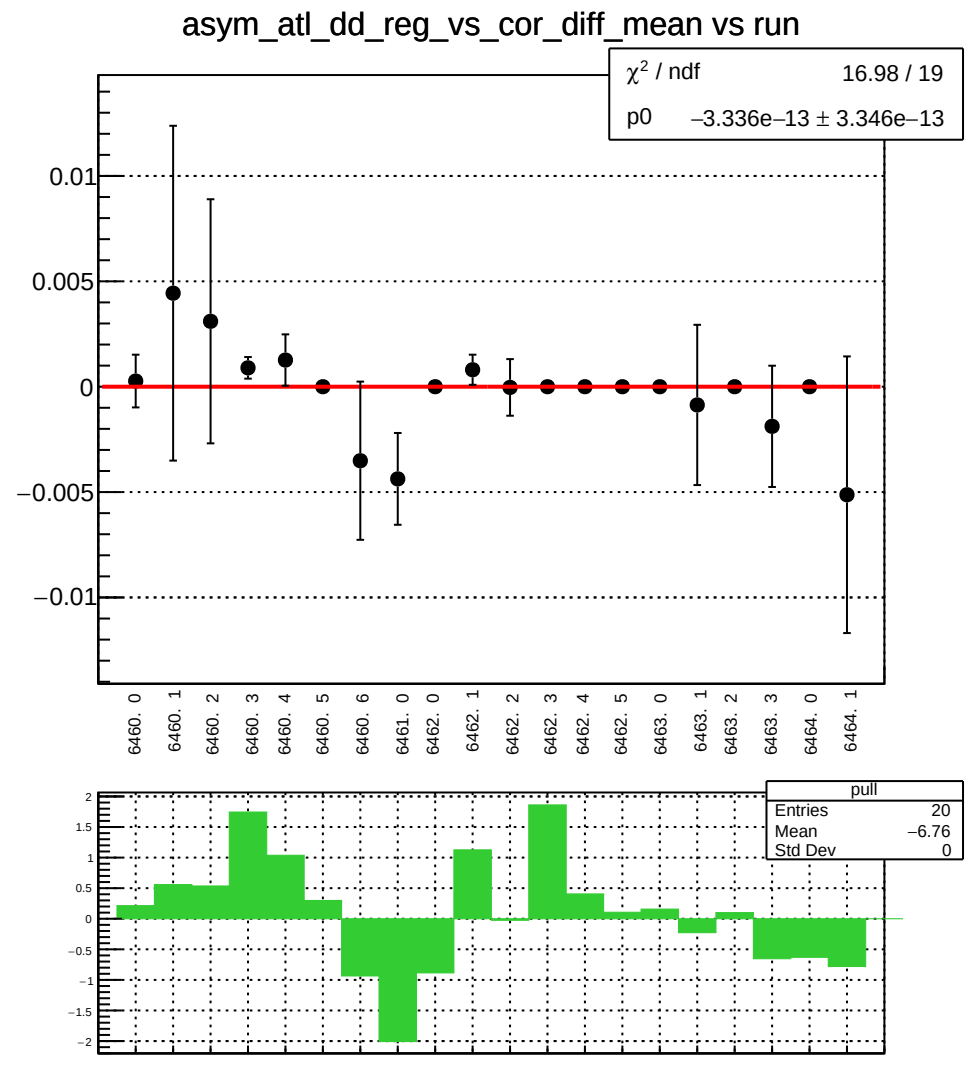

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 9.436 / 19
p0 −7463 ± 8852
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 28.91
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03019
Std Dev 0.6862
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

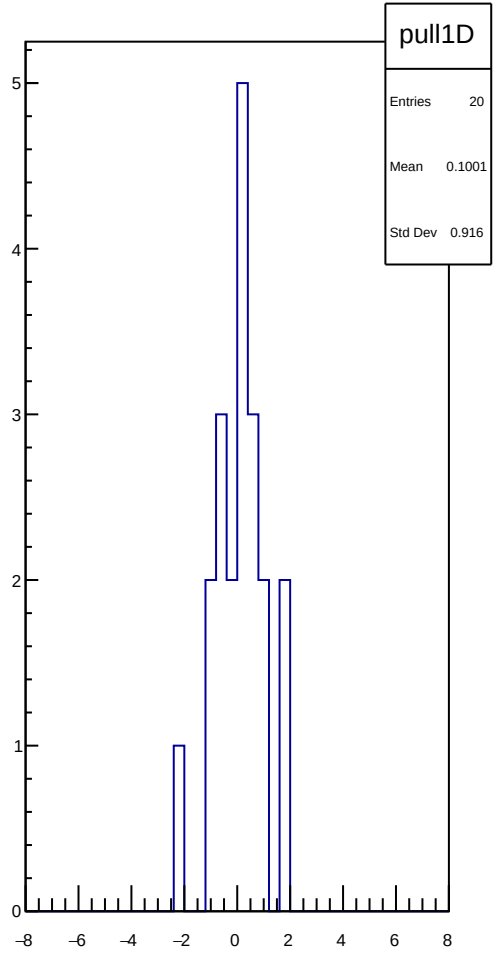

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 314.6 / 19
p0 3983 ± 6.259
4200
4100
4000
3900
3800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

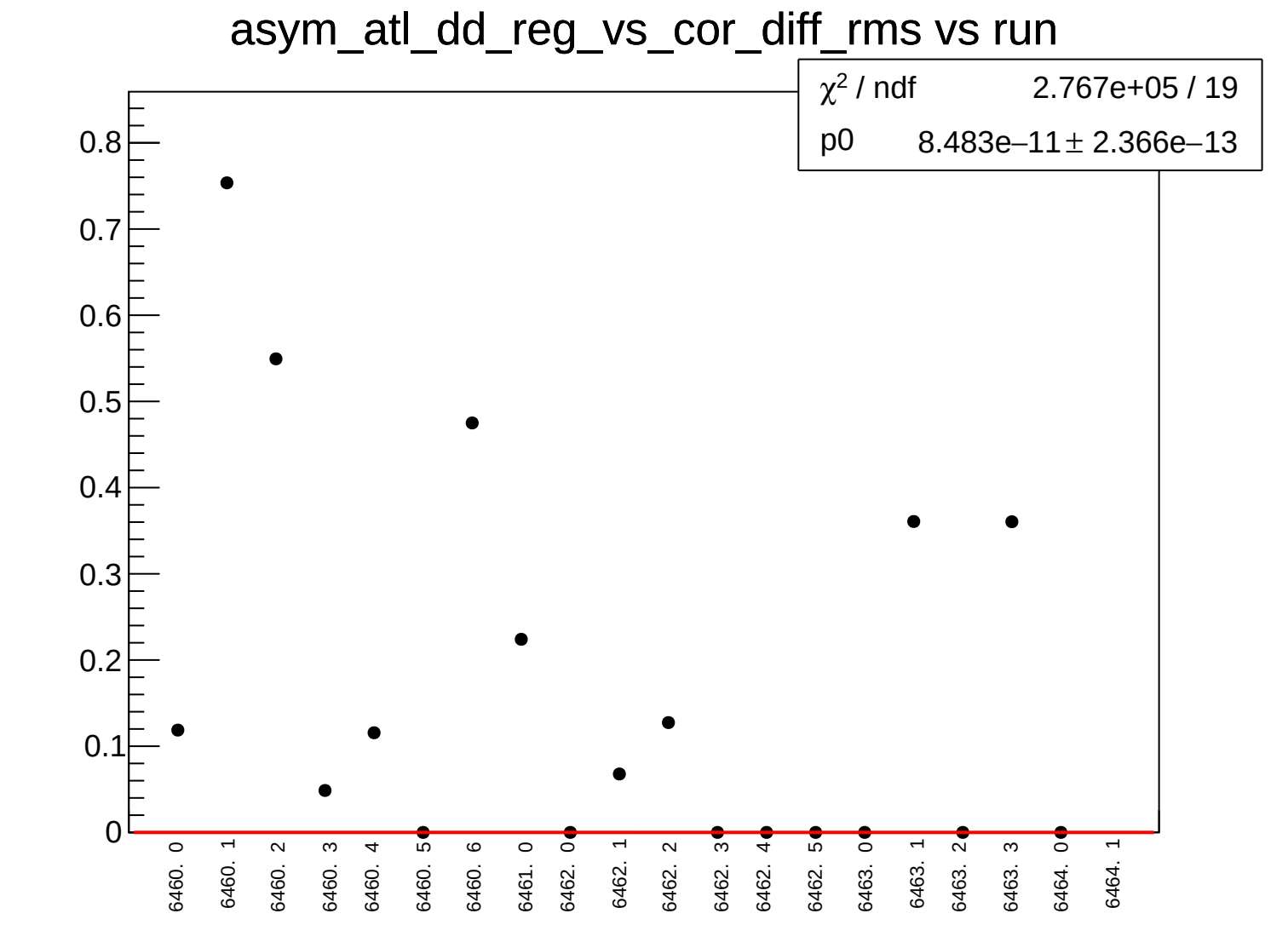

asym_atl_dd_mean vs run
×10^3
χ² / ndf 8.295 / 19
p0 −1789 ± 9454
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 119.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

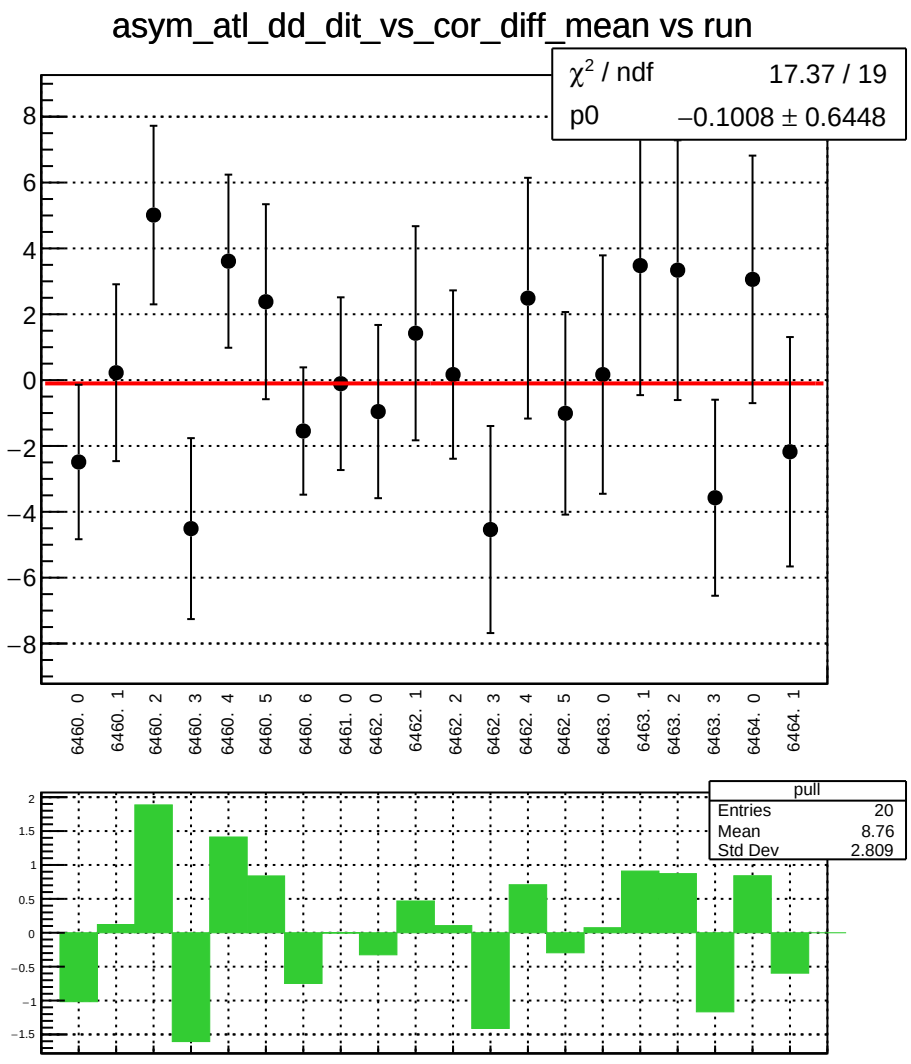

pull1D
Entries 20
Mean −0.01111
Std Dev 0.6439
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

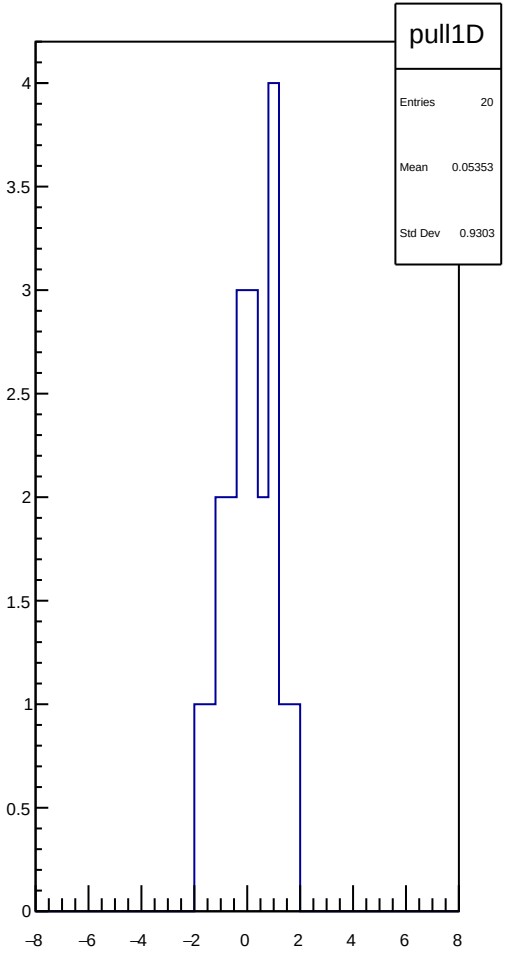

asym_atl_dd_rms vs run
χ^2 / ndf 274.2 / 19
p0 4254 ± 6.685
4500
4400
4300
4200
4100
4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

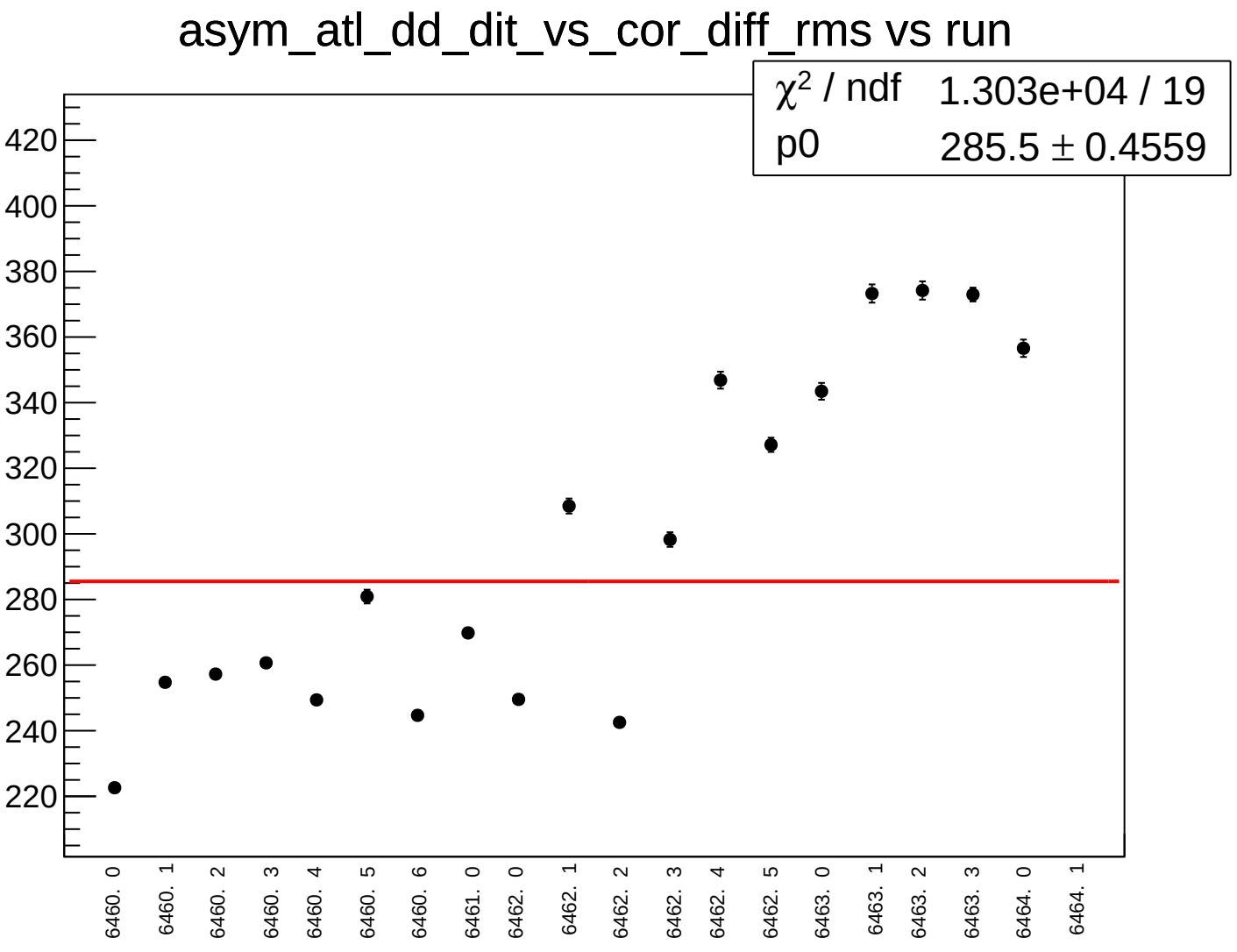

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 16.98 / 19
p0 −3.336e−13 ± 3.346e−13
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

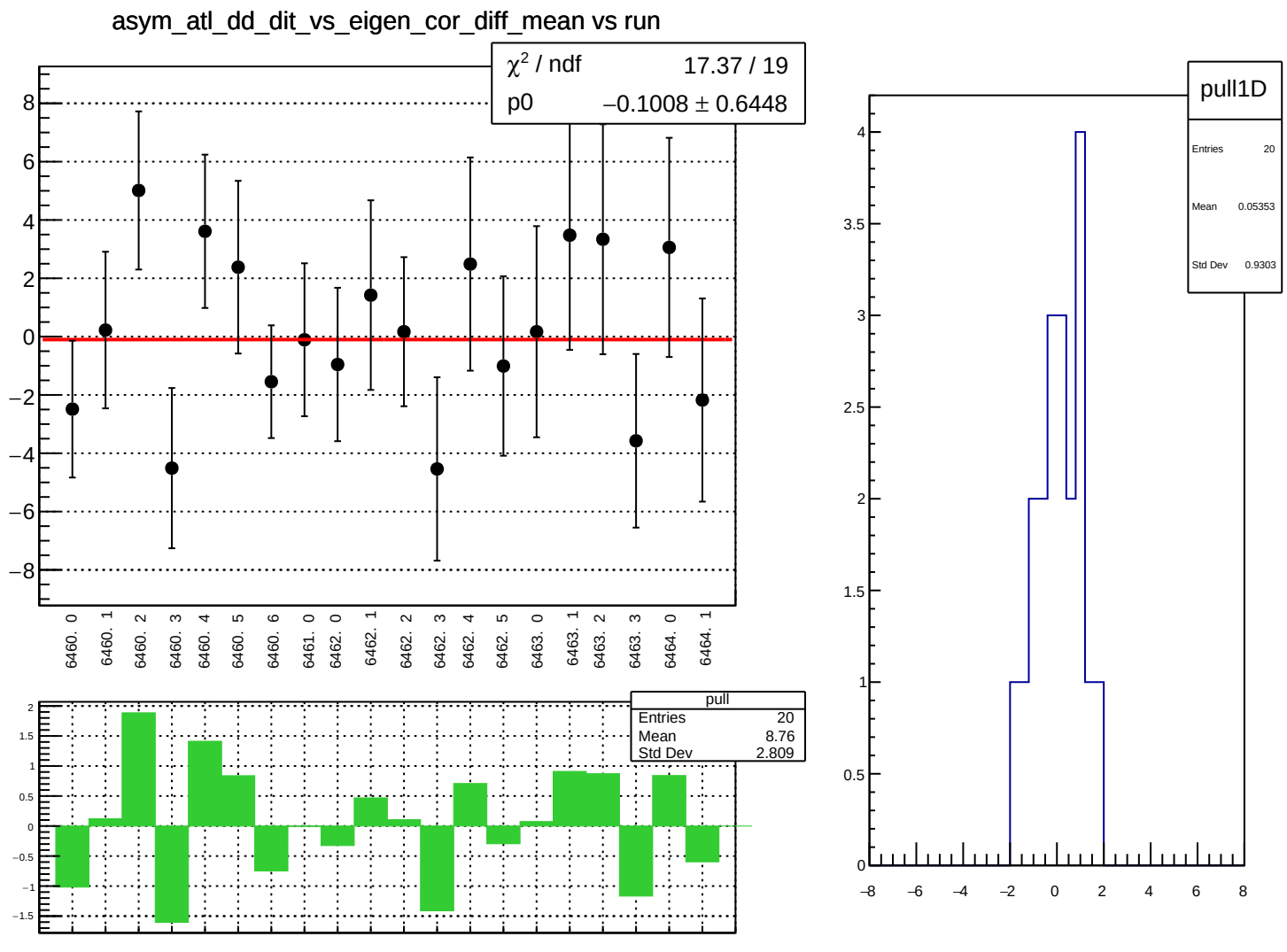

pull1D
Entries 20
Mean 0.1001
Std Dev 0.916
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

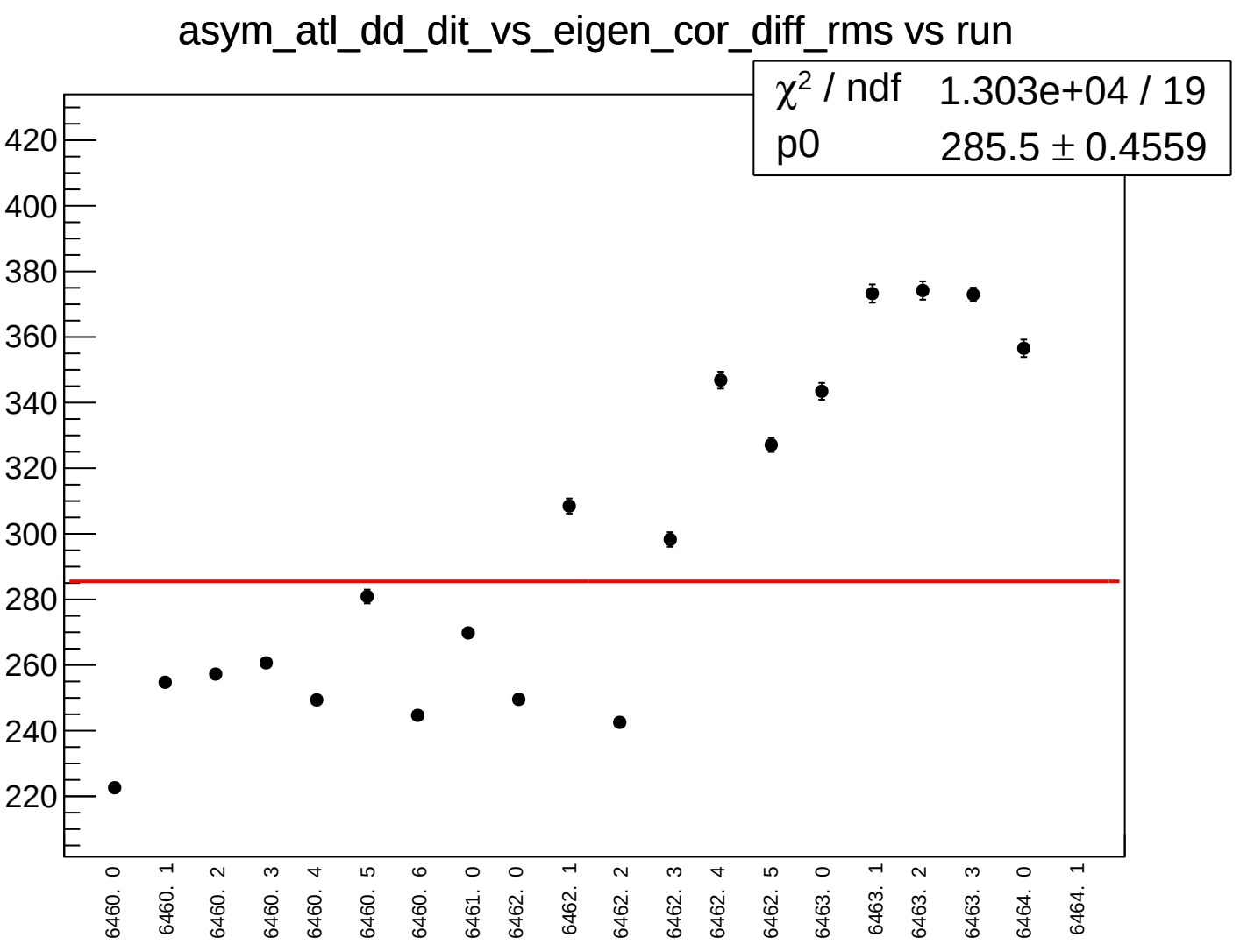

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.767e+05 / 19
p0 8.483e−11 ± 2.366e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

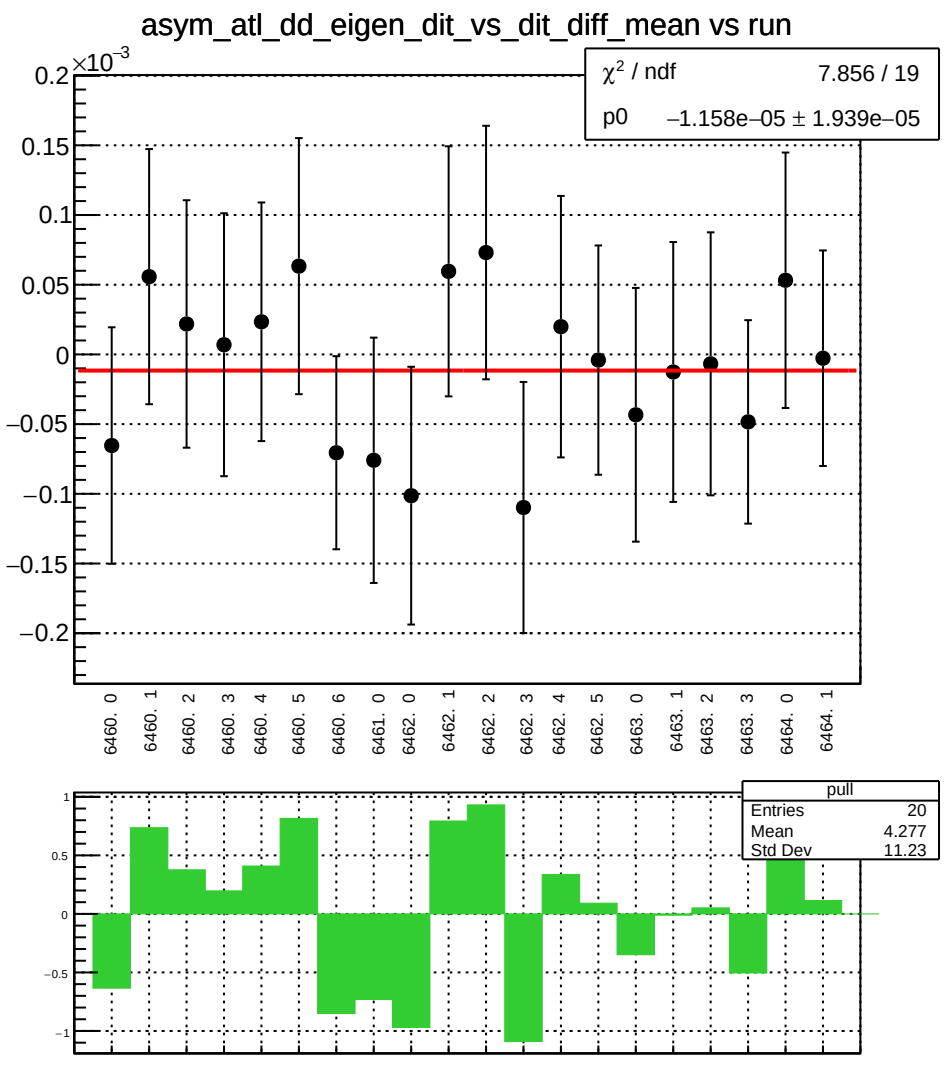

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 17.37 / 19
p0 −0.1008 ± 0.6448
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.76
Std Dev 2.809
2
1.5
1
0.5
0
−0.5
−1
−1.5

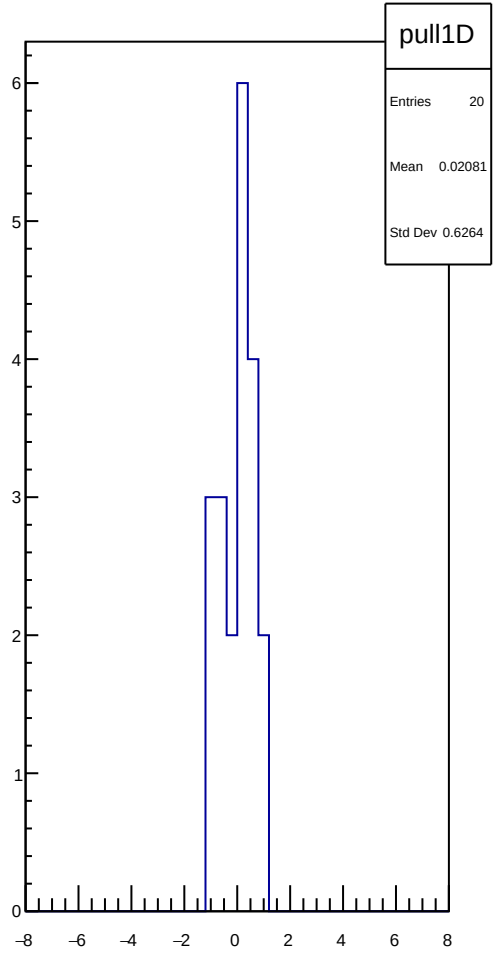

pull1D
Entries 20
Mean 0.05353
Std Dev 0.9303
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

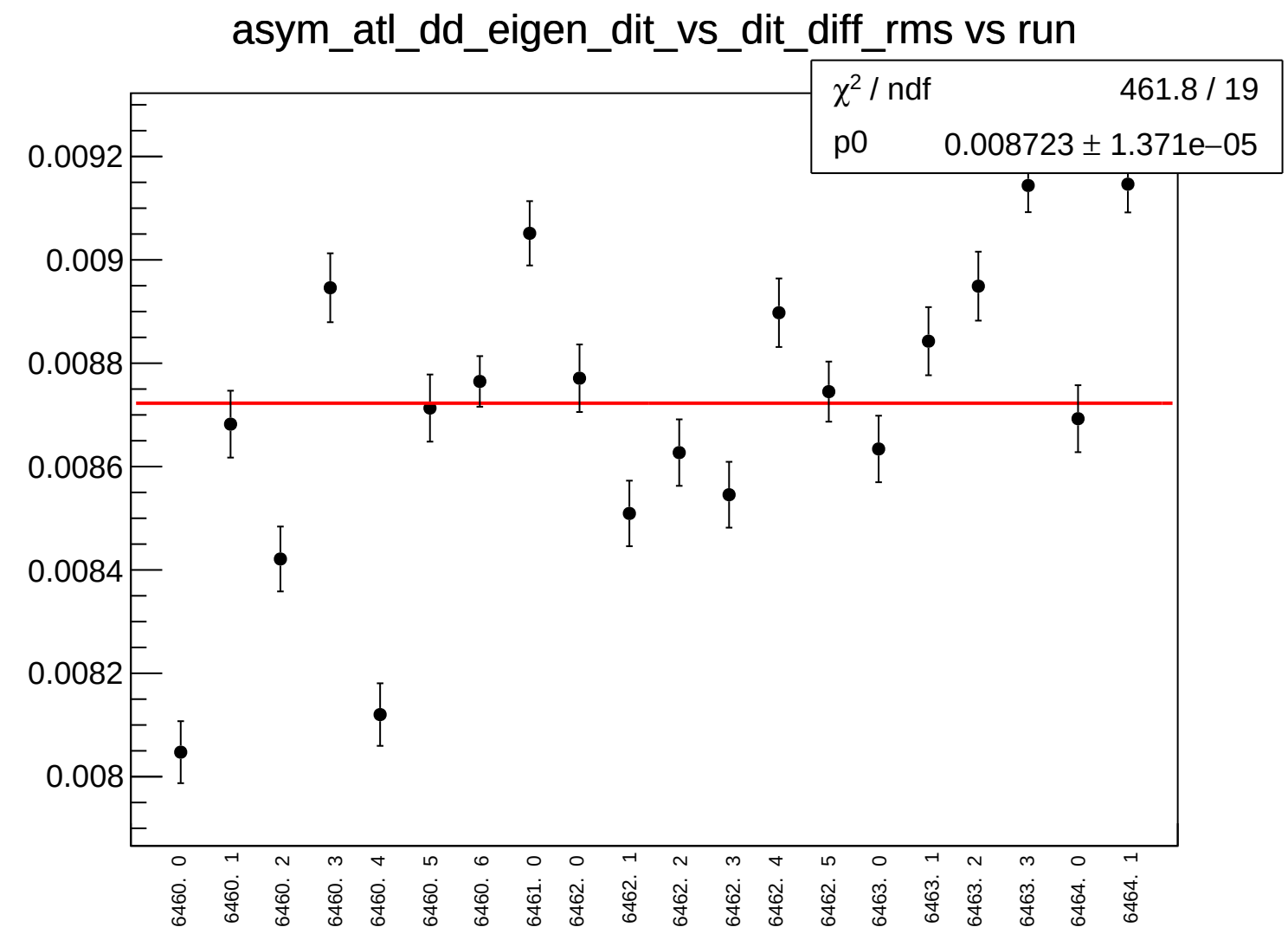

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.303e+04 / 19
p0 285.5 ± 0.4559
420
400
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

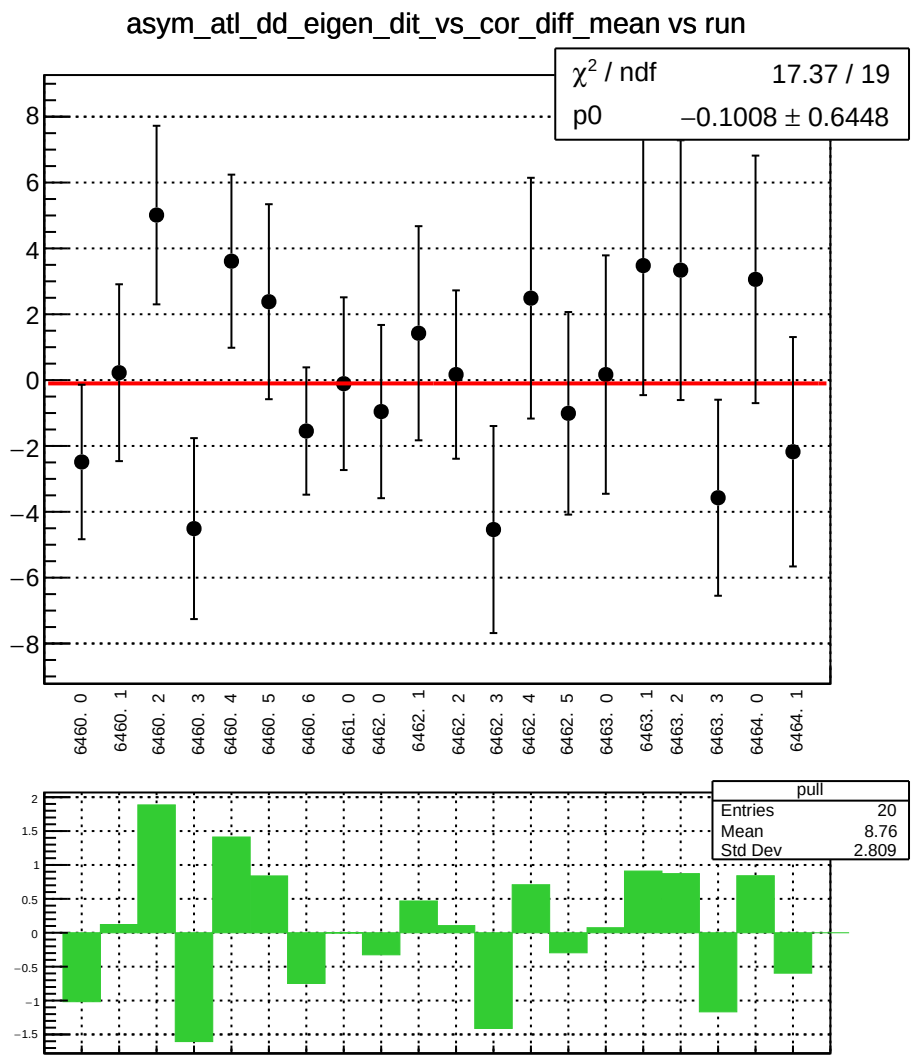

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.37 / 19
p0 −0.1008 ± 0.6448
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.76
Std Dev 2.809
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.05353
Std Dev 0.9303
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

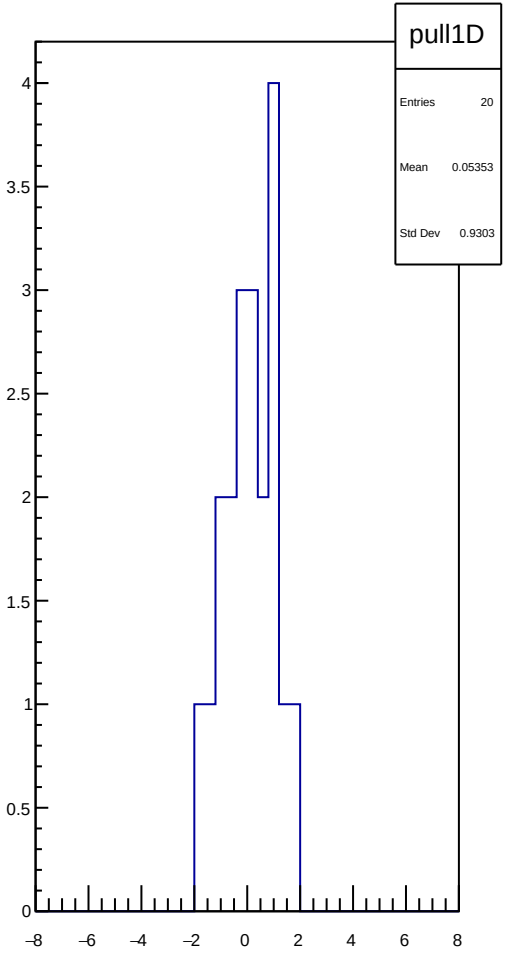

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.303e+04 / 19
p0 285.5 ± 0.4559
420
400
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

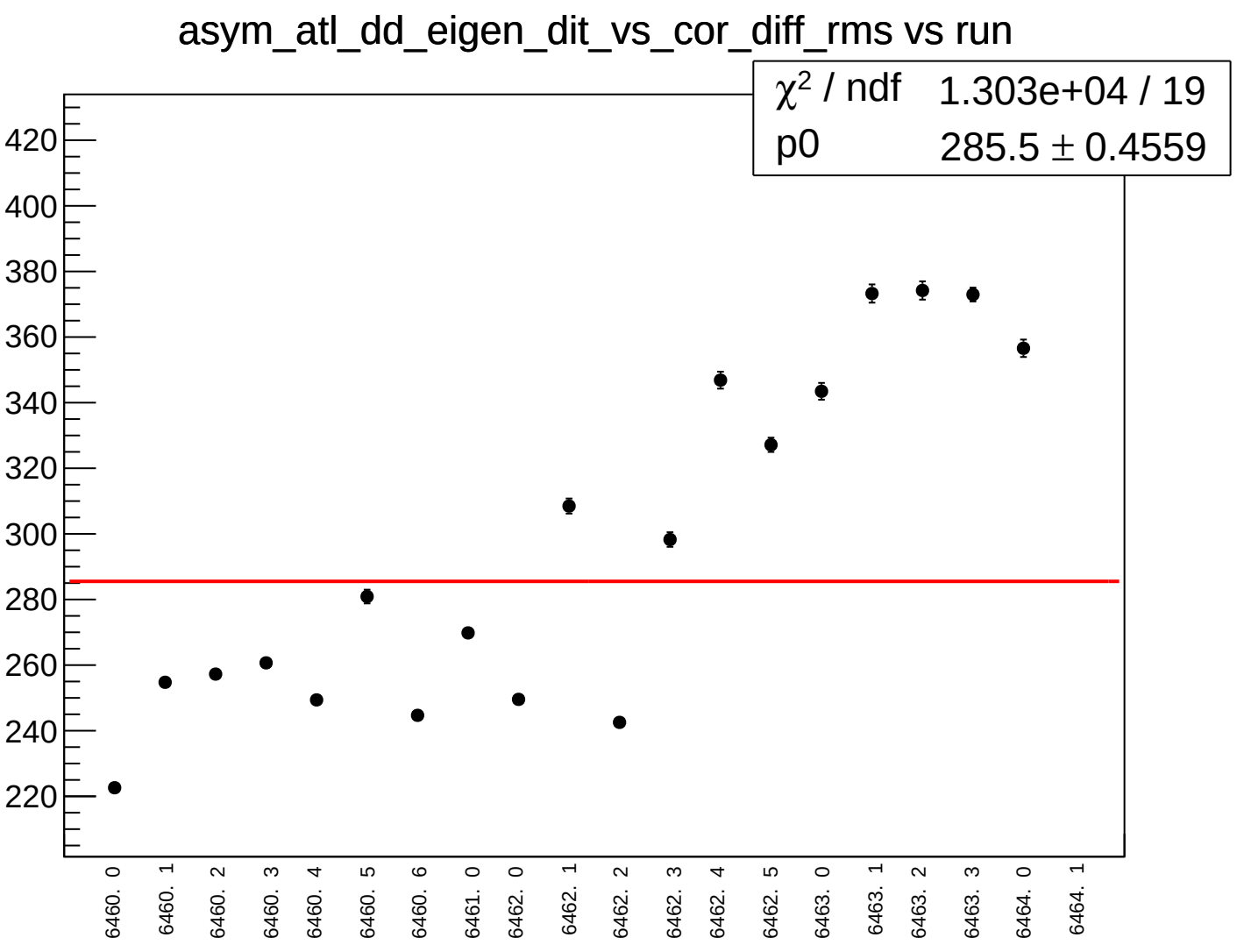

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 7.856 / 19
p0 −1.158e−05 ± 1.939e−05
×10⁻³
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.277
Std Dev 11.23
1
0.5
0
−0.5
−1

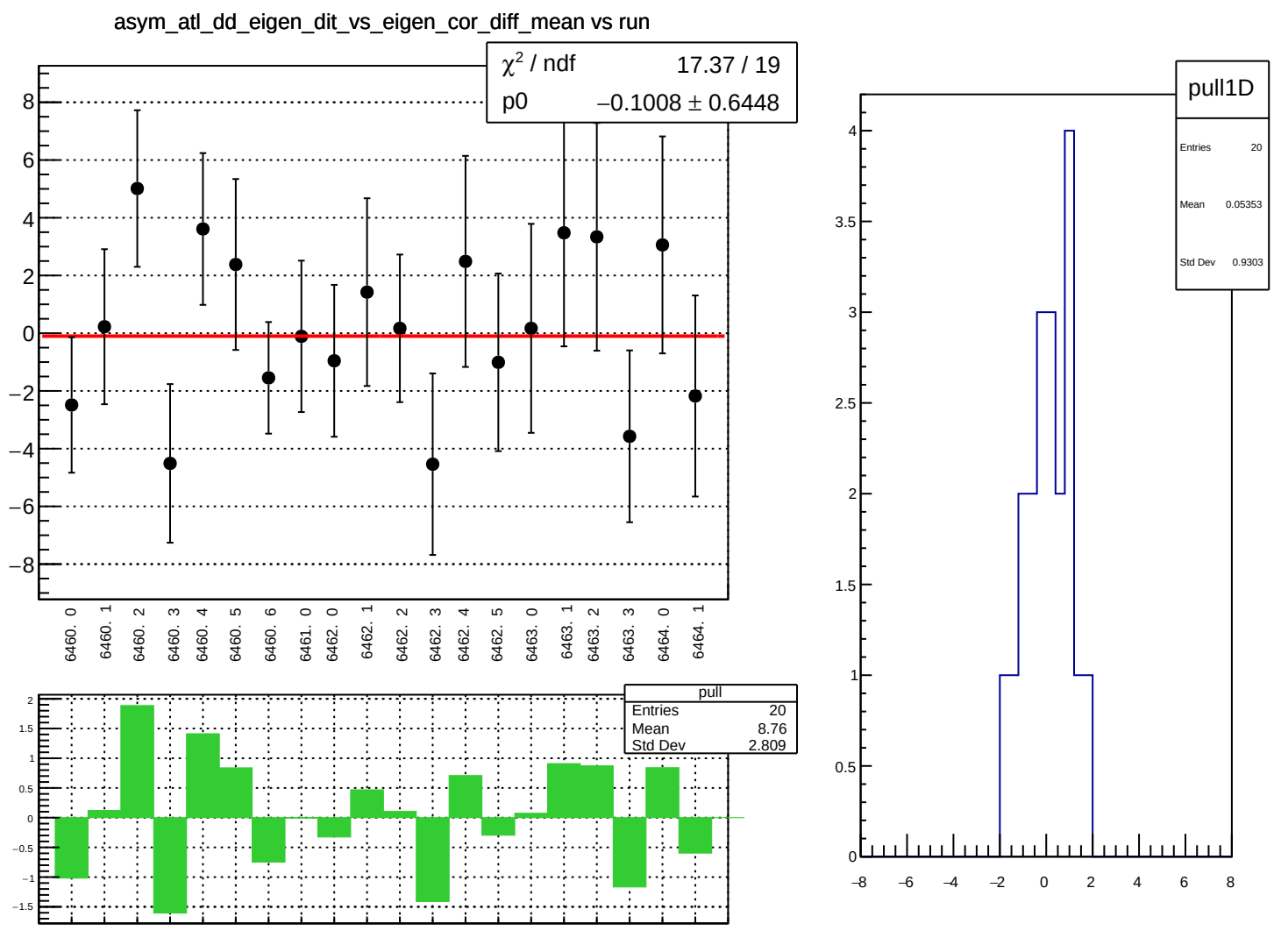

pull1D
Entries 20
Mean 0.02081
Std Dev 0.6264
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

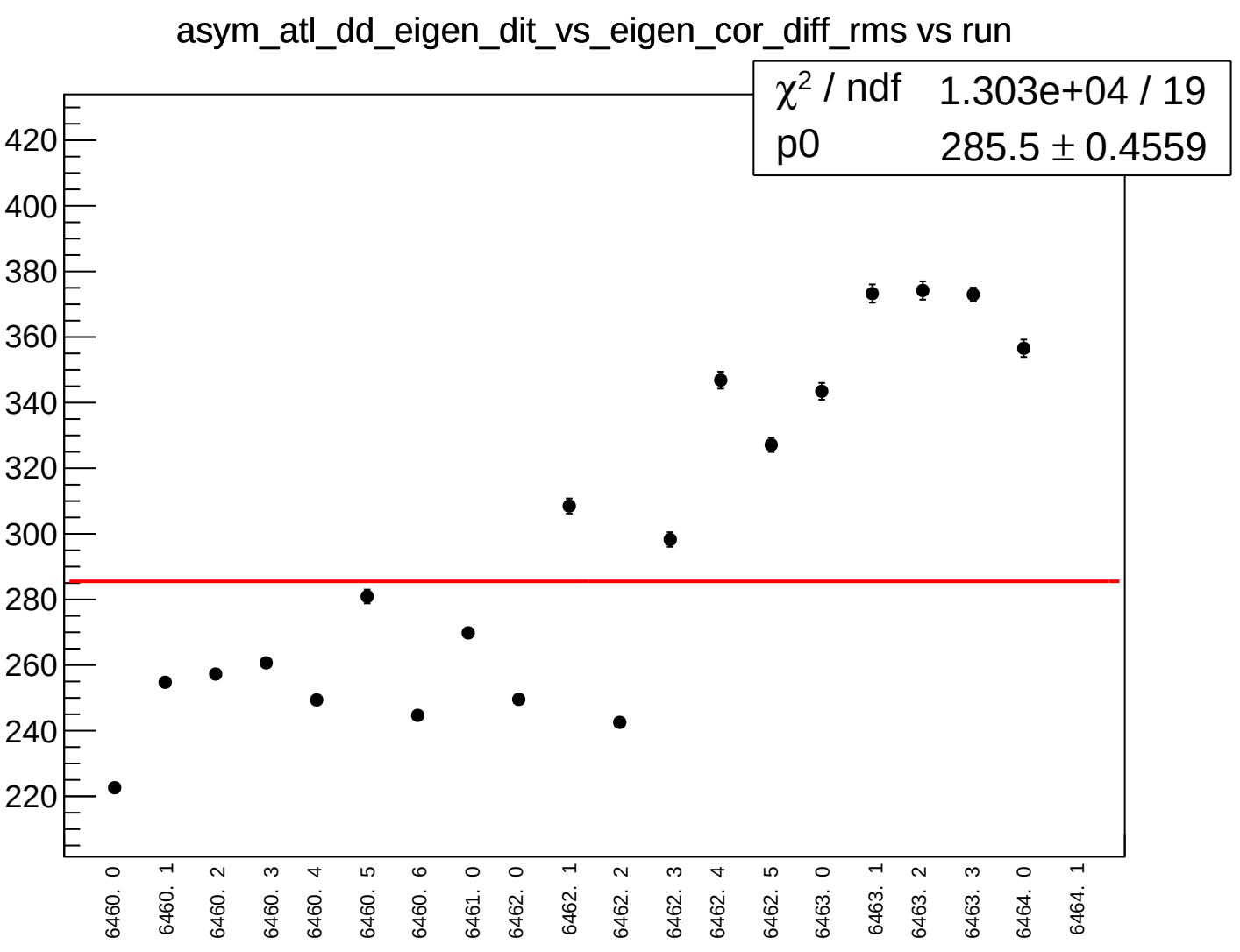

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 461.8 / 19
p0 0.008723 ± 1.371e−05
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

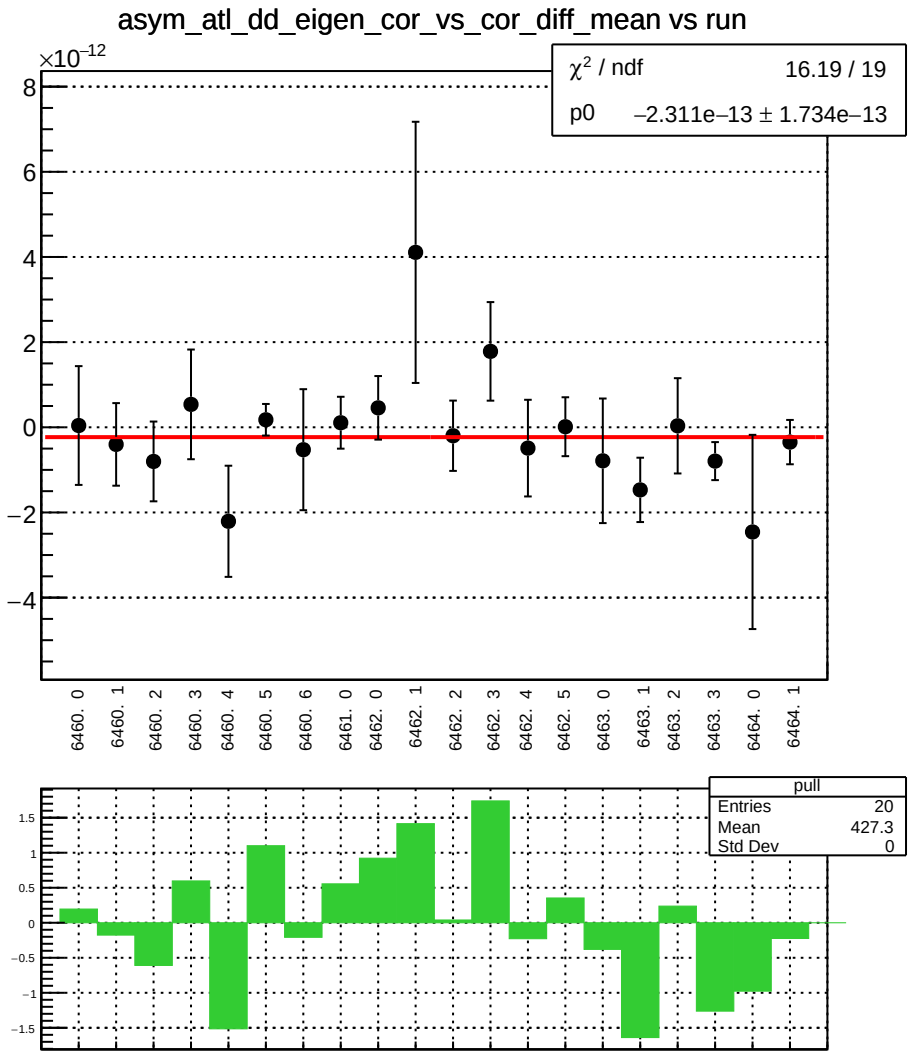

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.37 / 19
p0 −0.1008 ± 0.6448
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.76
Std Dev 2.809
2
1.5
1
0.5
0
−0.5
−1
−1.5

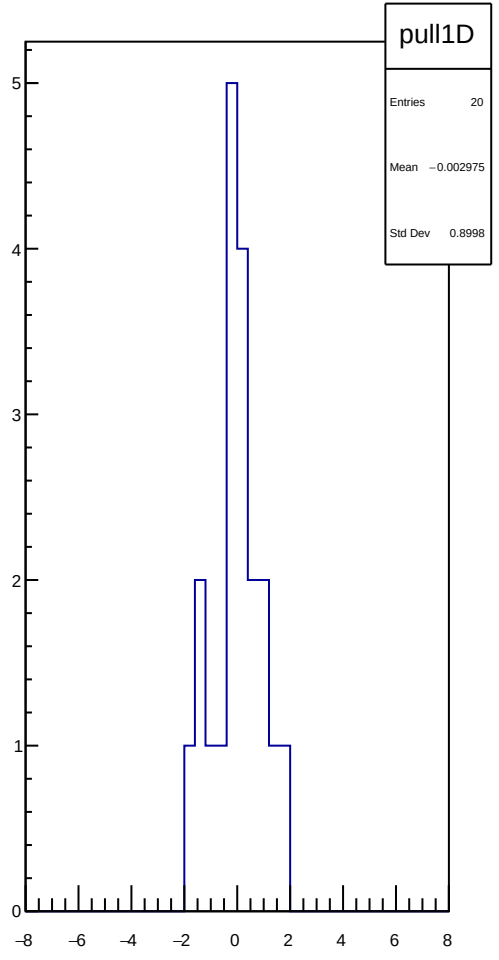

pull1D
Entries 20
Mean 0.05353
Std Dev 0.9303
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

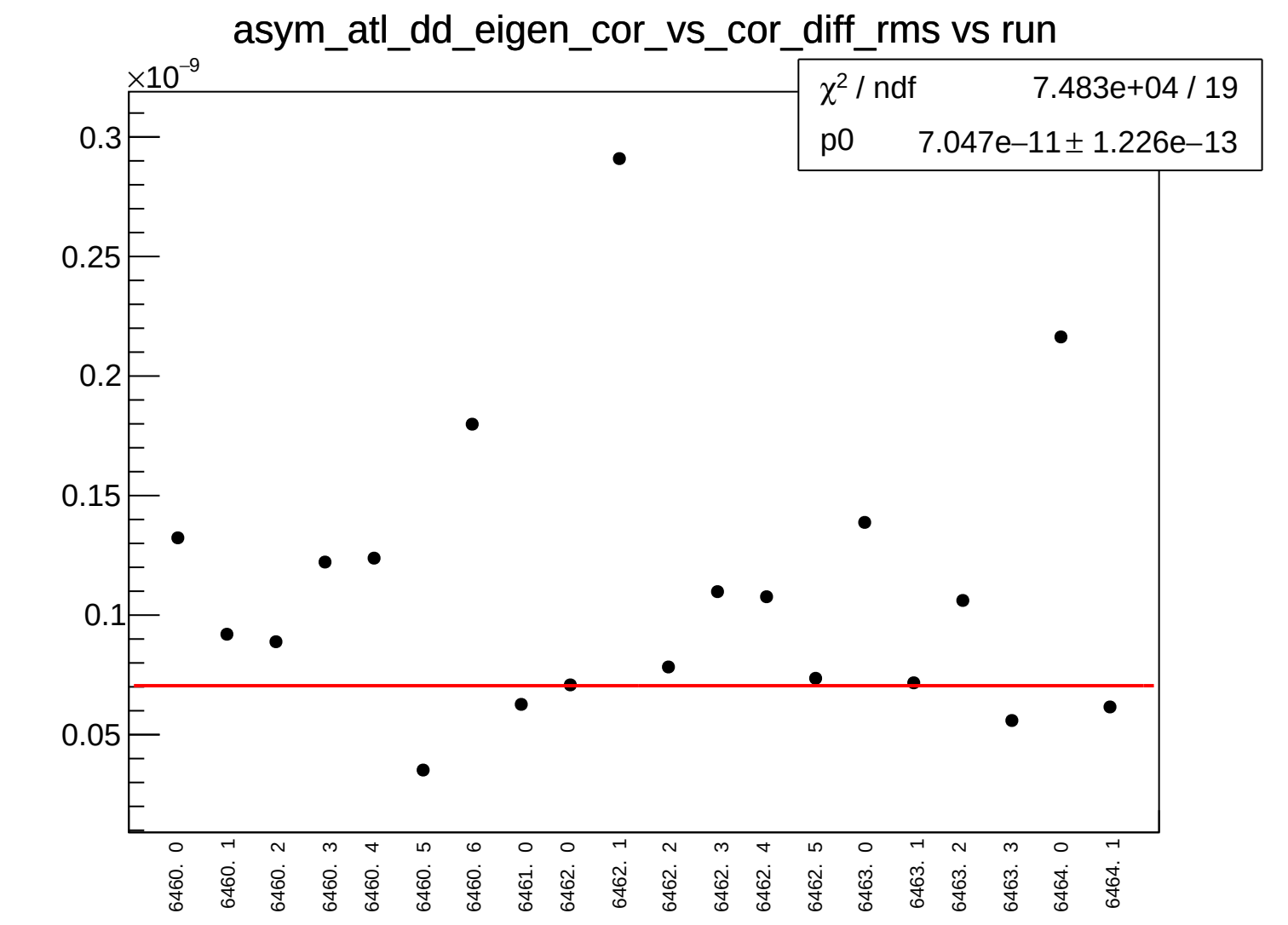

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.303e+04 / 19
p0 285.5 ± 0.4559
420
400
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

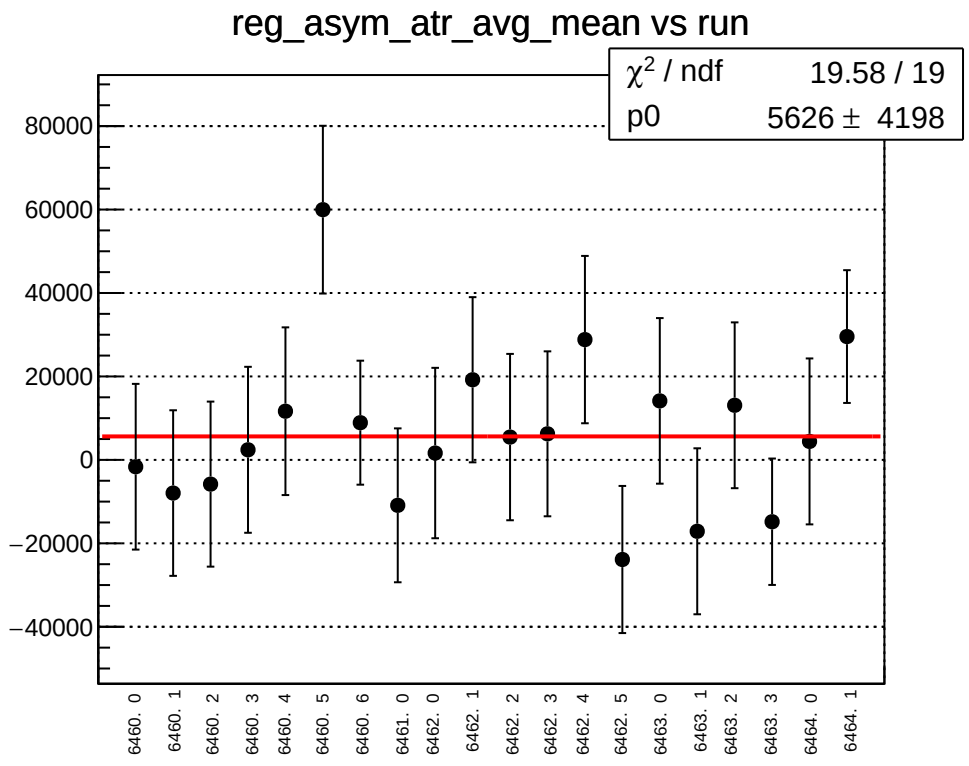

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.37 / 19
p0 −0.1008 ± 0.6448
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.76
Std Dev 2.809
pull1D
Entries 20
Mean 0.05353
Std Dev 0.9303

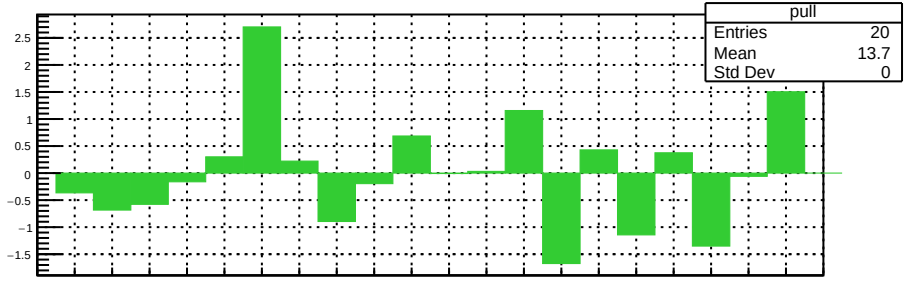

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.303e+04 / 19
p0 285.5 ± 0.4559
420
400
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

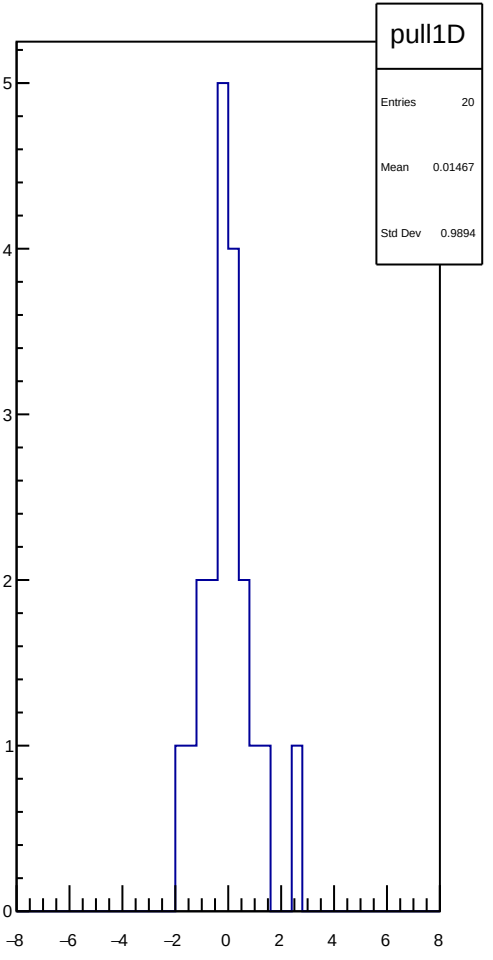

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.19 / 19
p0 −2.311e−13 ± 1.734e−13
8
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 427.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

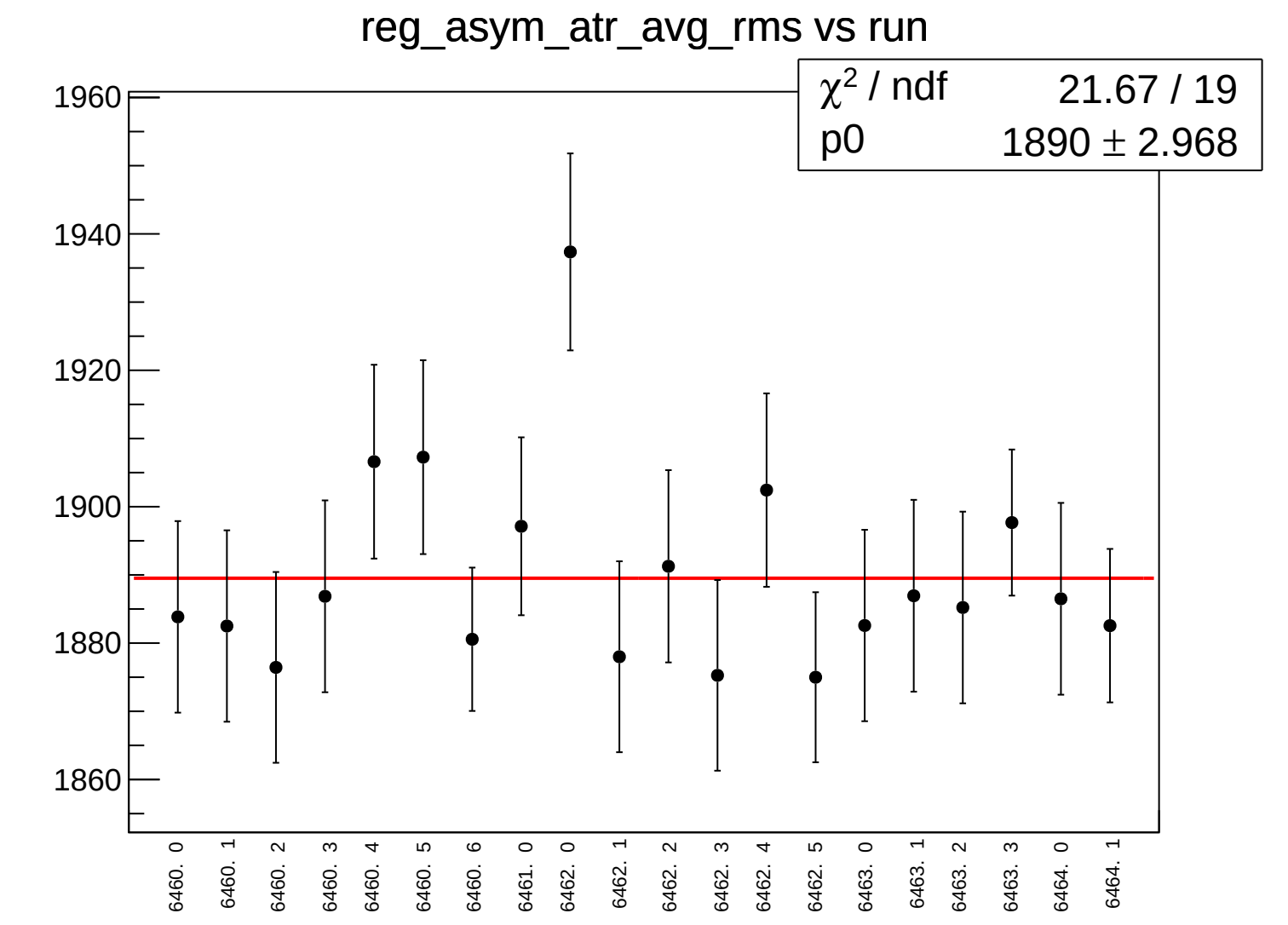

pull1D
Entries 20
Mean −0.002975
Std Dev 0.8998
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

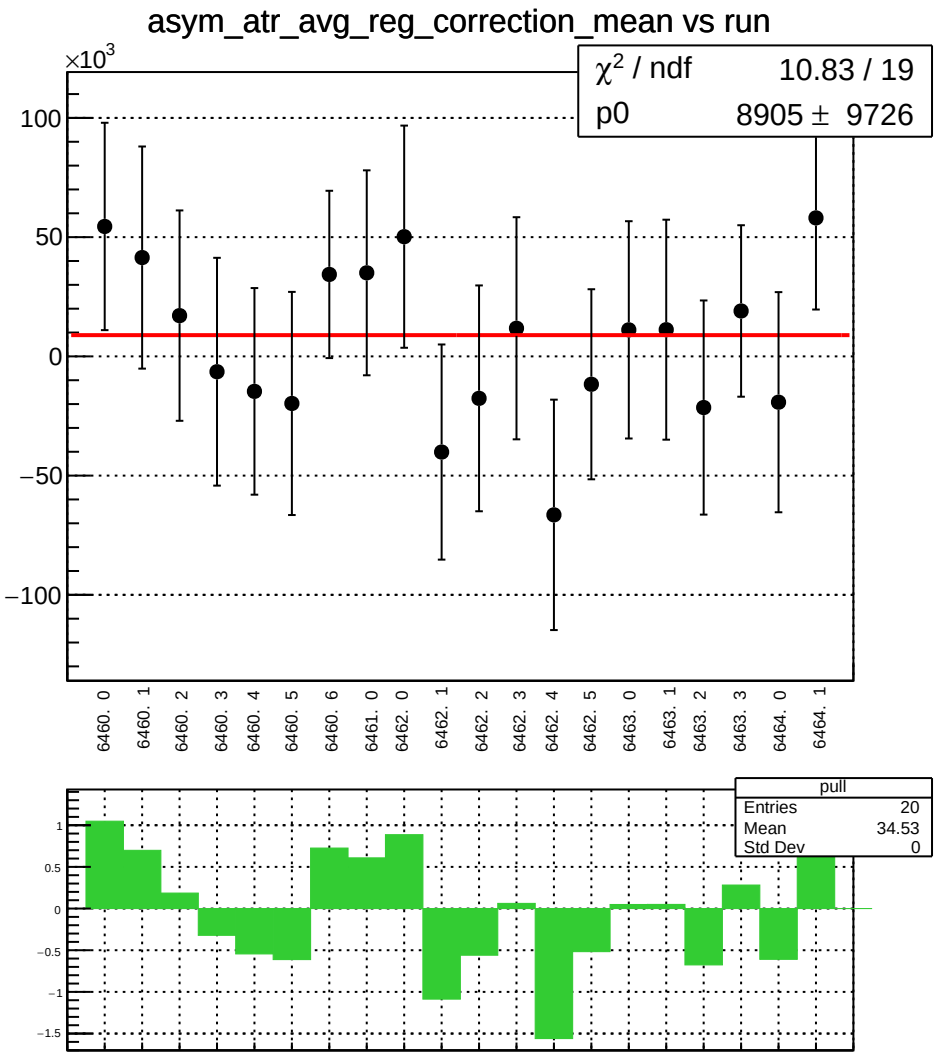

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.483e+04 / 19
p0 7.047e−11 ± 1.226e−13
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

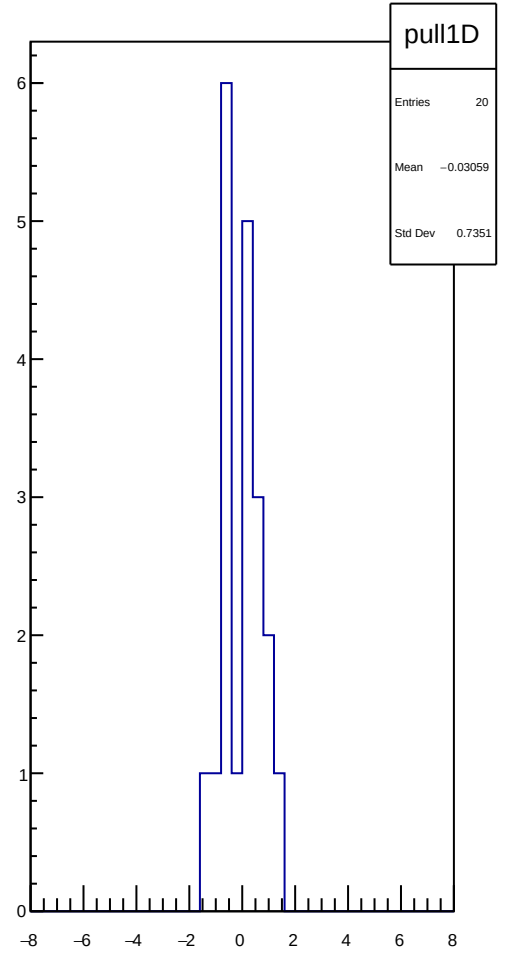

reg_asym_atr_avg_mean vs run
χ² / ndf 19.58 / 19
p0 5626 ± 4198
80000
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

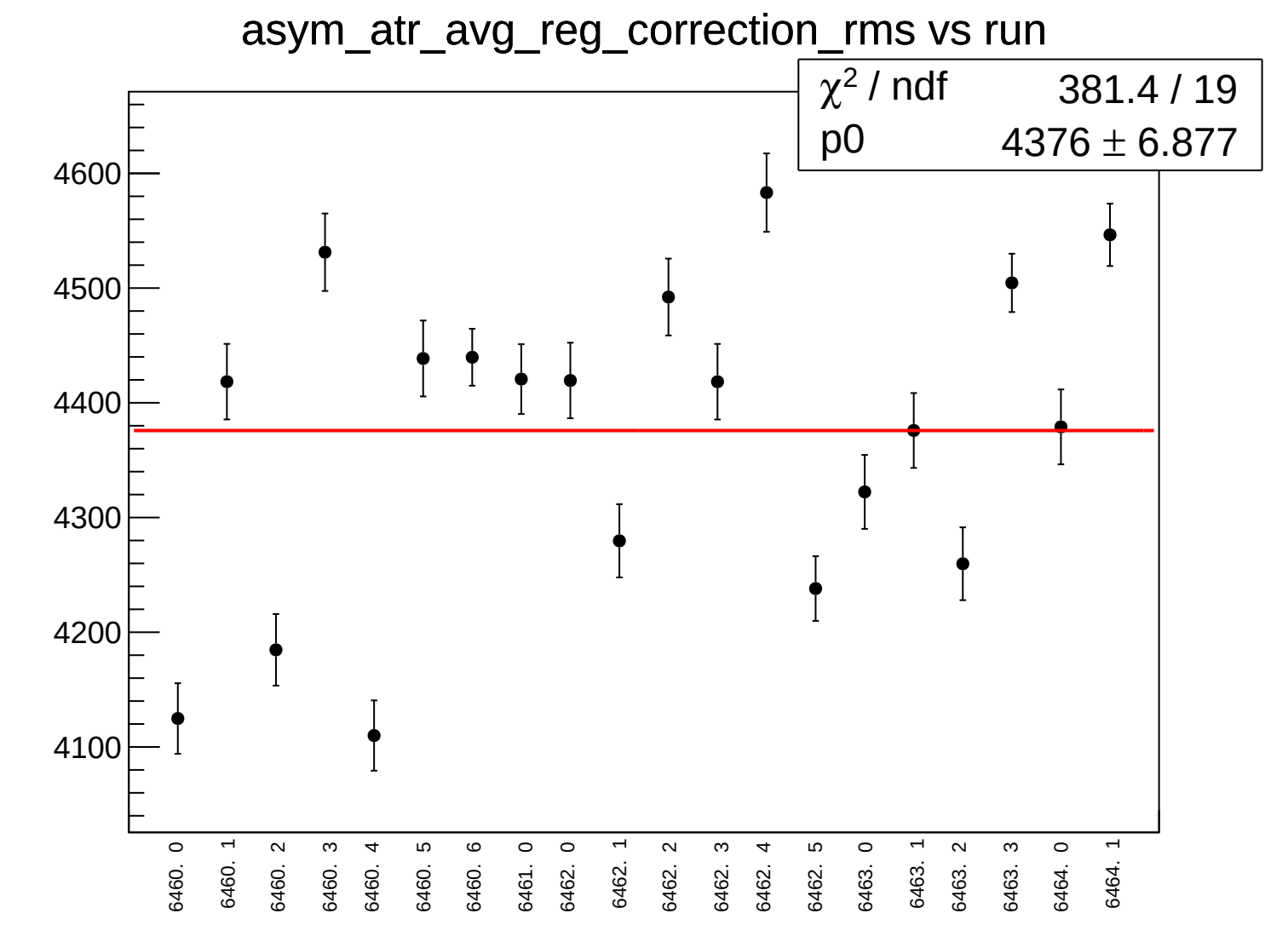

pull
Entries 20
Mean 13.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

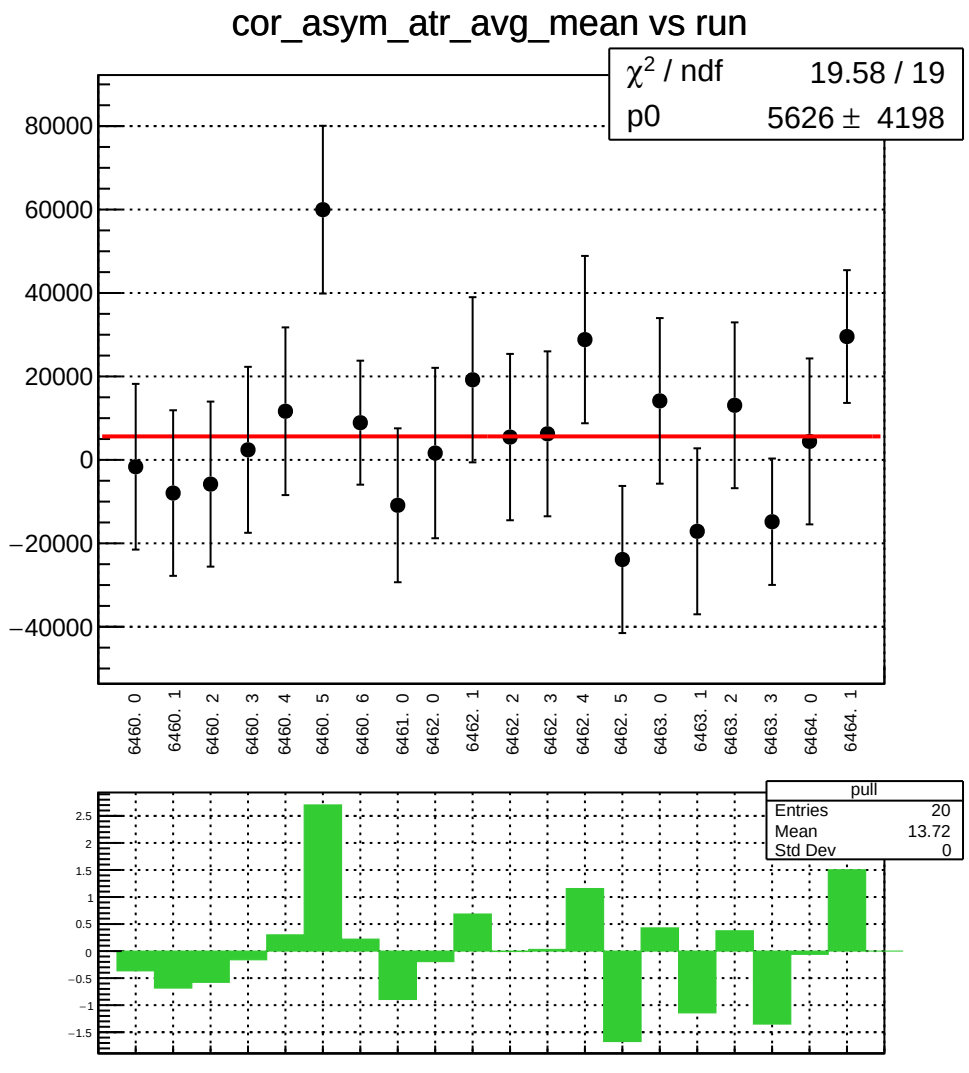

pull1D
Entries 20
Mean 0.01467
Std Dev 0.9894
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

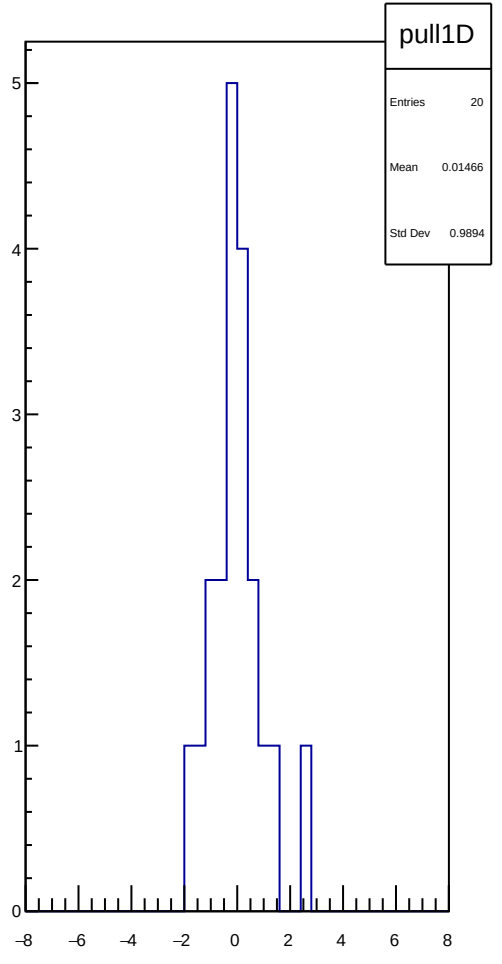

reg_asym_atr_avg_rms vs run
χ² / ndf 21.67 / 19
p0 1890 ± 2.968
1960
1940
1920
1900
1880
1860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

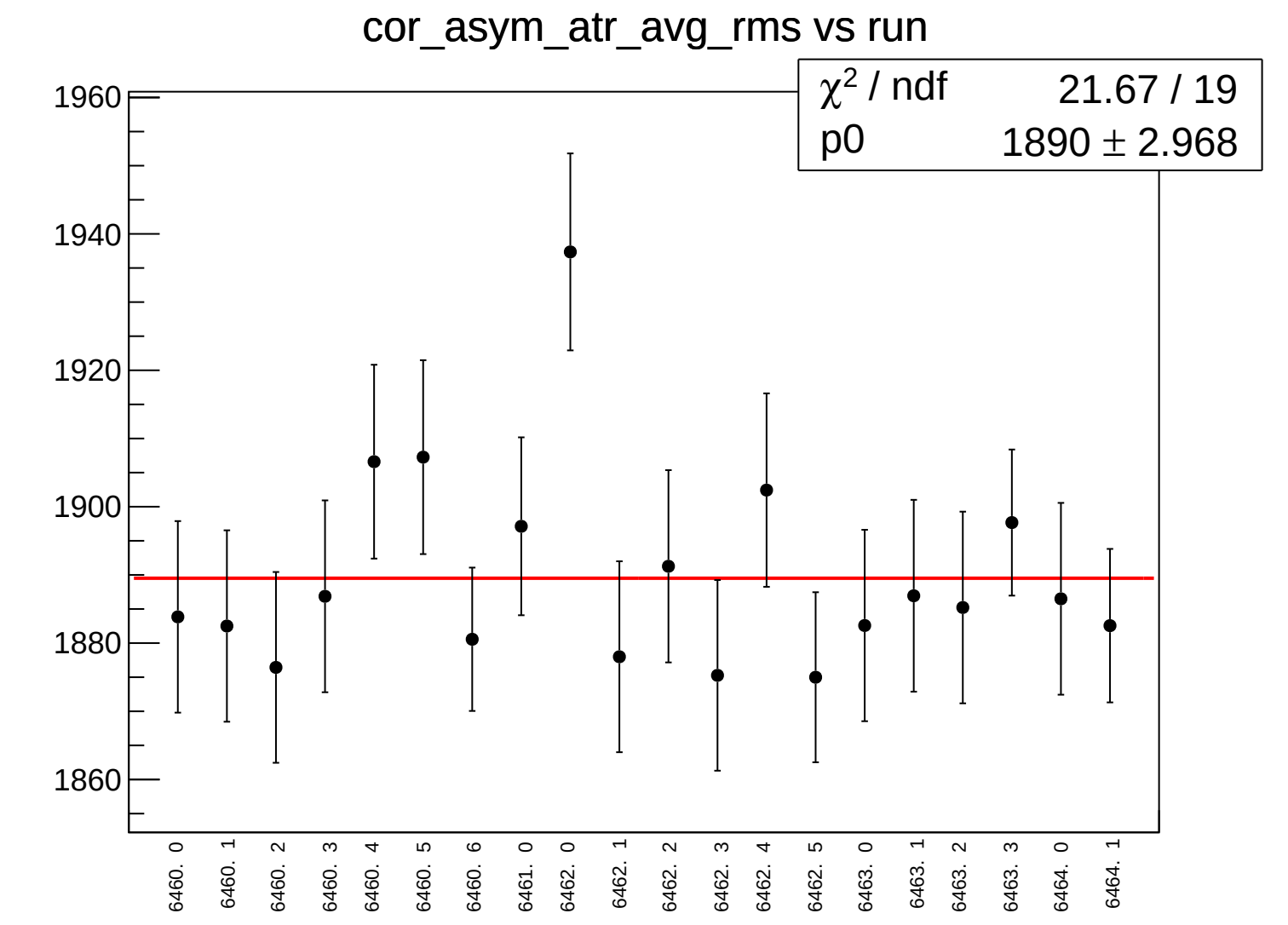

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 10.83 / 19
p0 8905 ± 9726
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.53
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

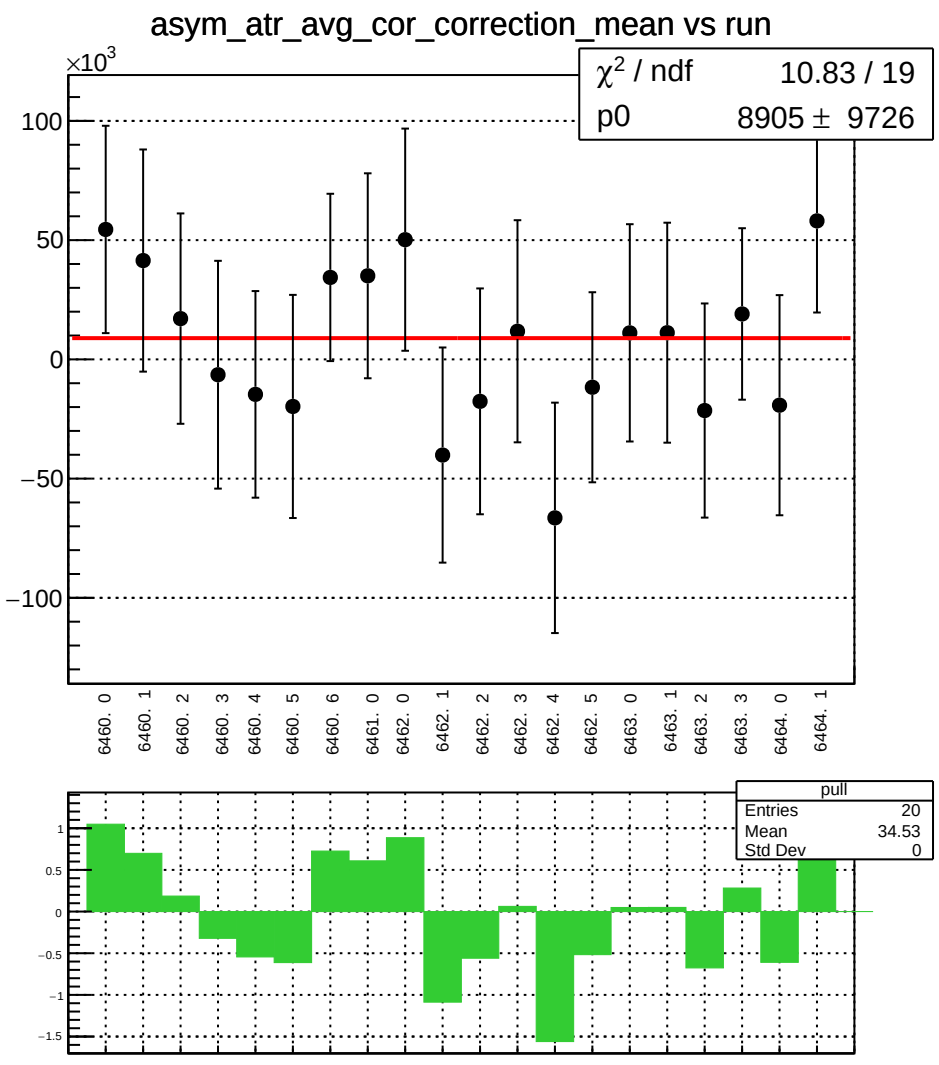

pull1D
Entries 20
Mean −0.03059
Std Dev 0.7351
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

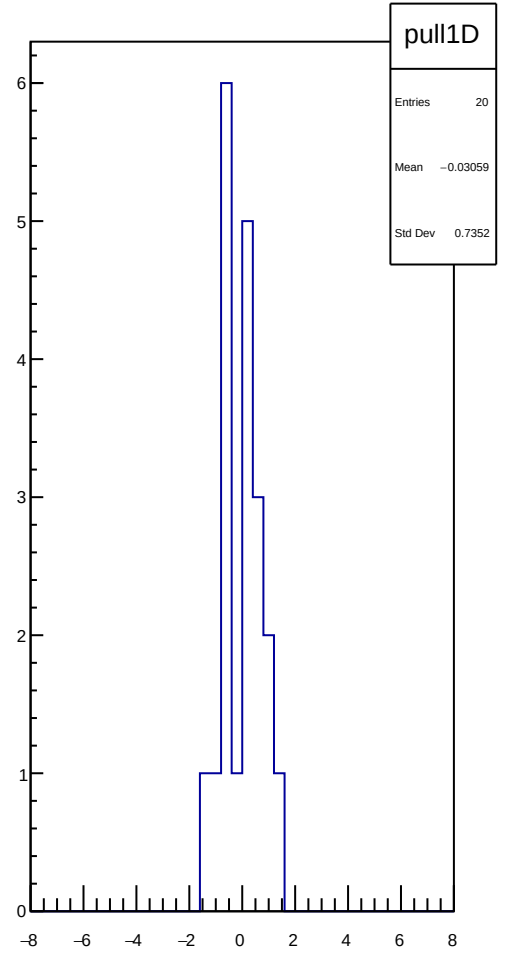

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 381.4 / 19
p0 4376 ± 6.877
4600
4500
4400
4300
4200
4100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

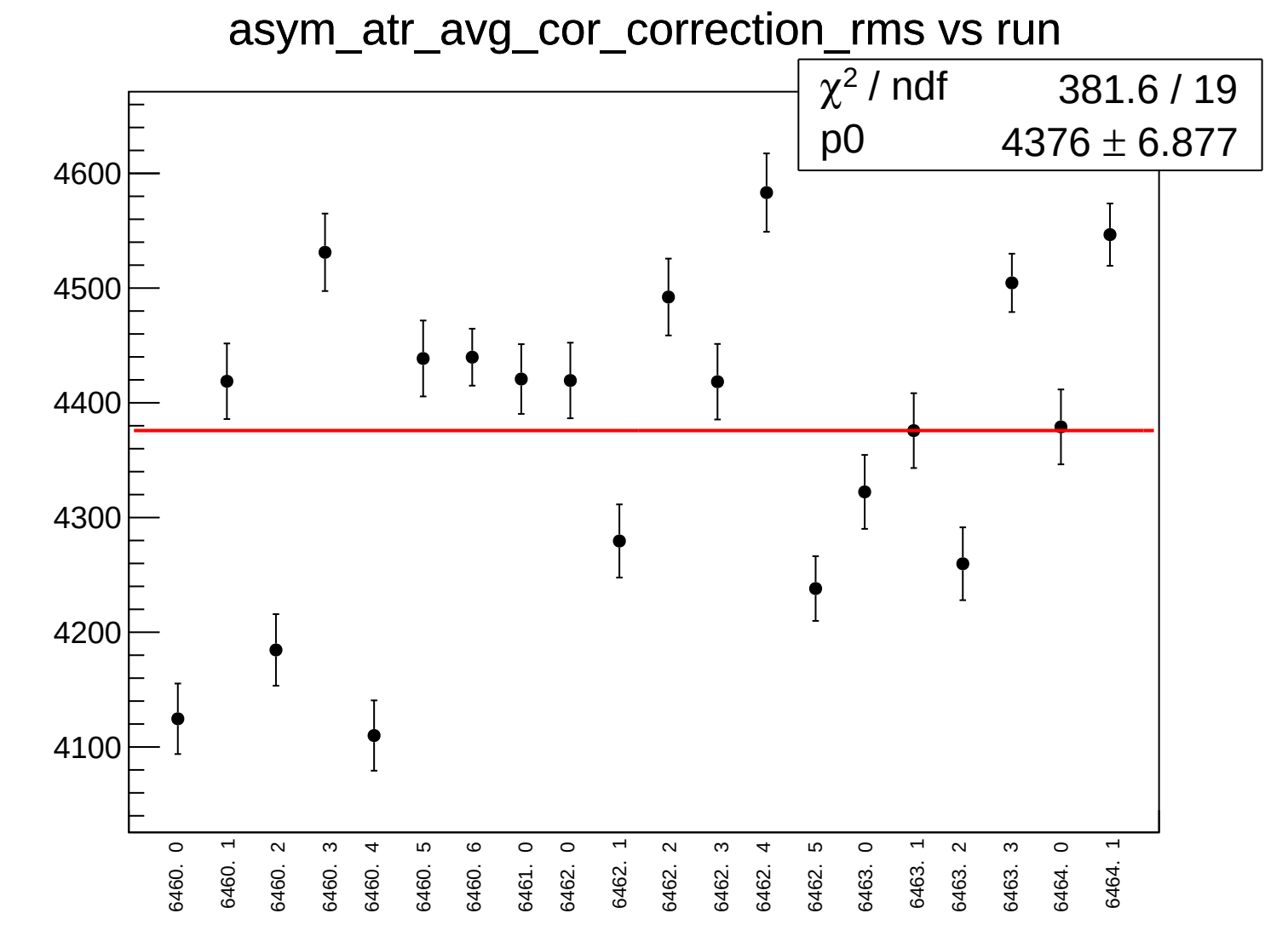

cor_asym_atr_avg_mean vs run
χ² / ndf 19.58 / 19
p0 5626 ± 4198
80000
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.72
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

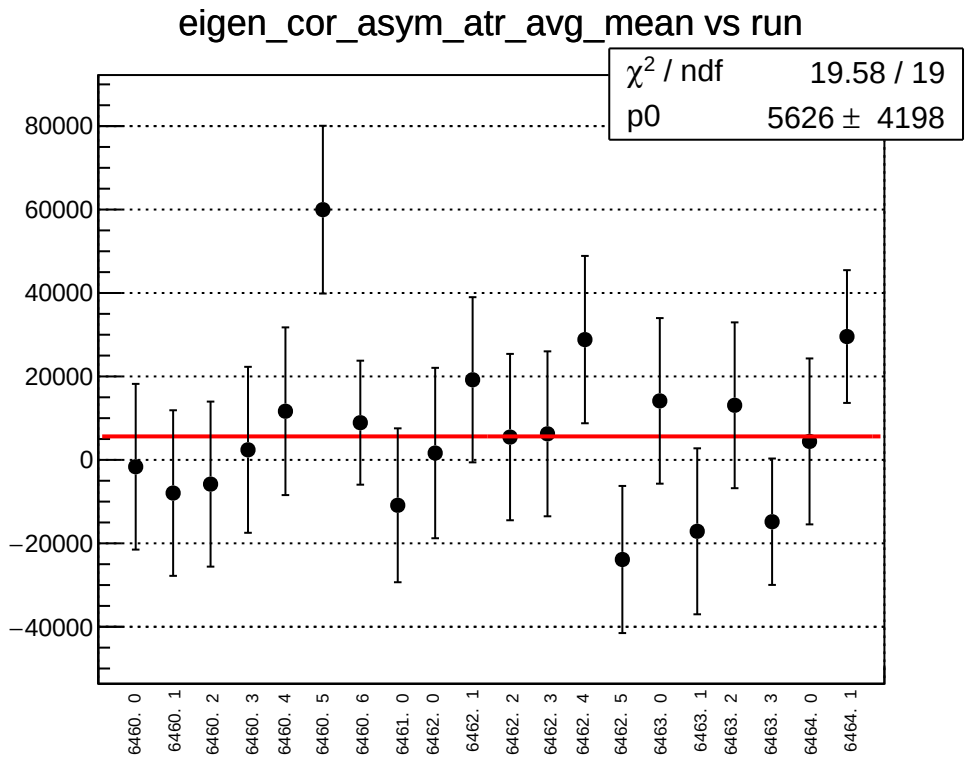

pull1D
Entries 20
Mean 0.01466
Std Dev 0.9894
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

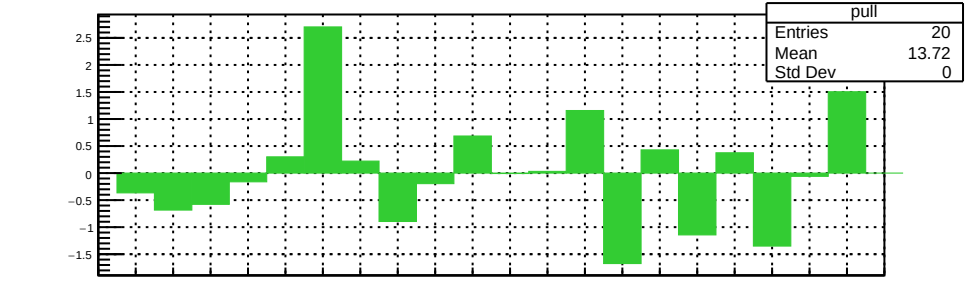

cor_asym_atr_avg_rms vs run
χ² / ndf 21.67 / 19
p0 1890 ± 2.968
1960
1940
1920
1900
1880
1860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

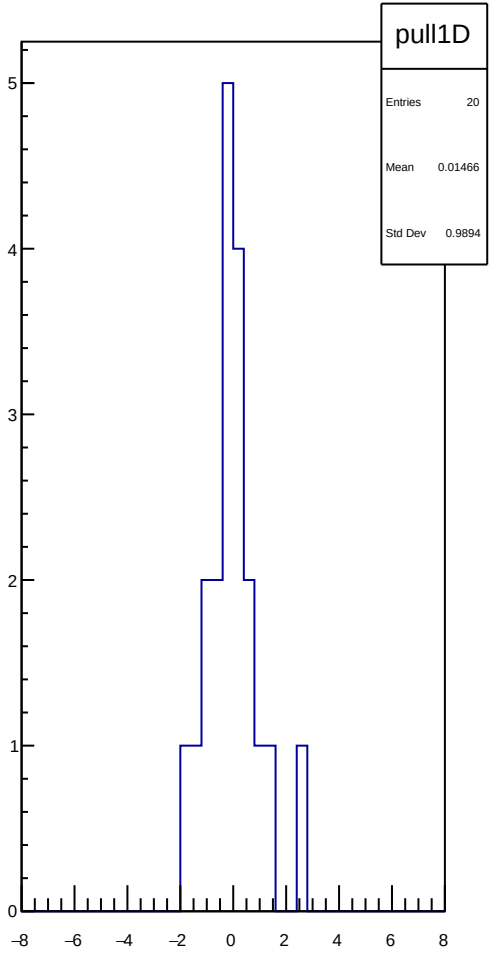

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 10.83 / 19
p0 8905 ± 9726
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.53
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

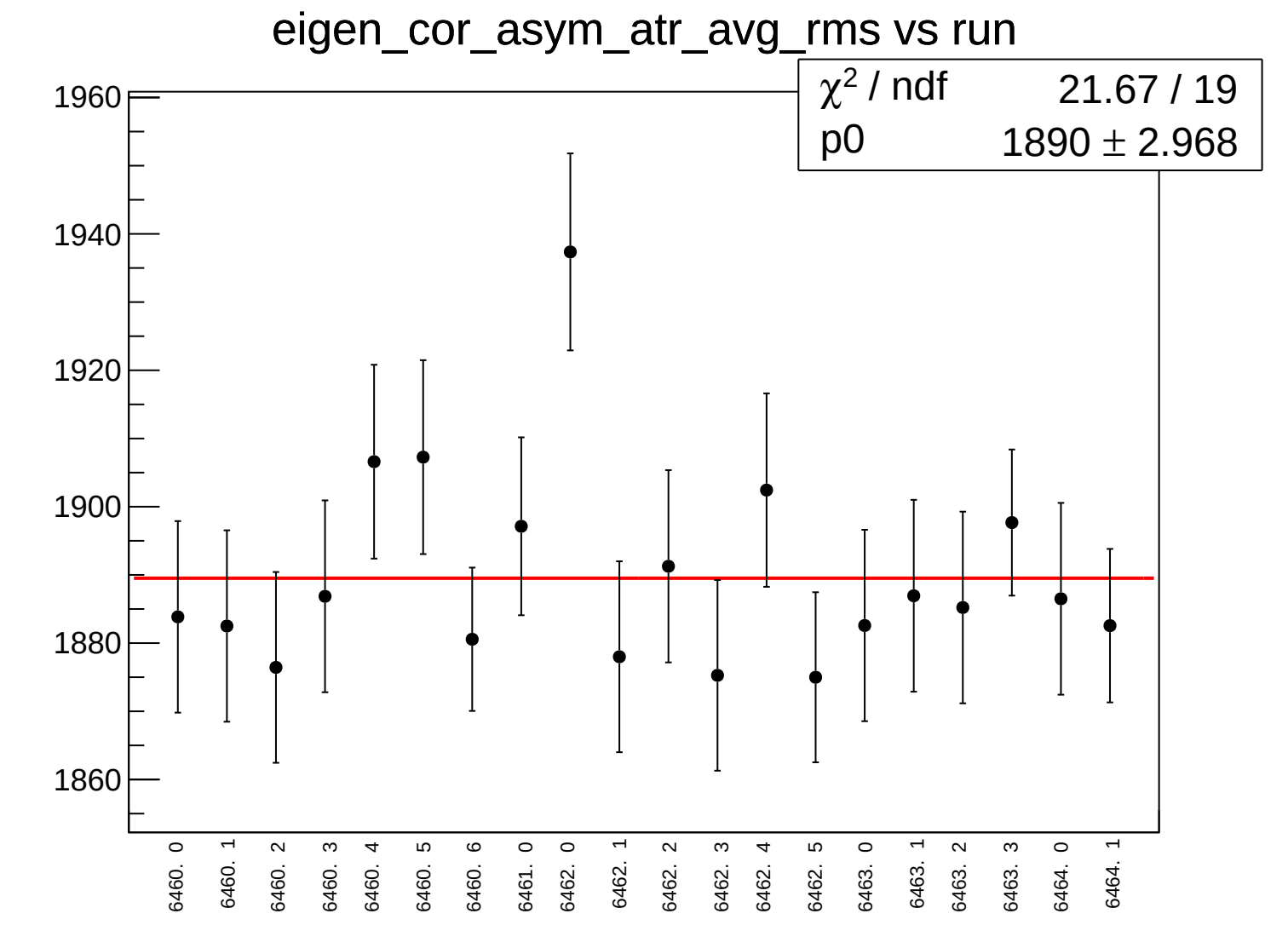

pull1D
Entries 20
Mean −0.03059
Std Dev 0.7352
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

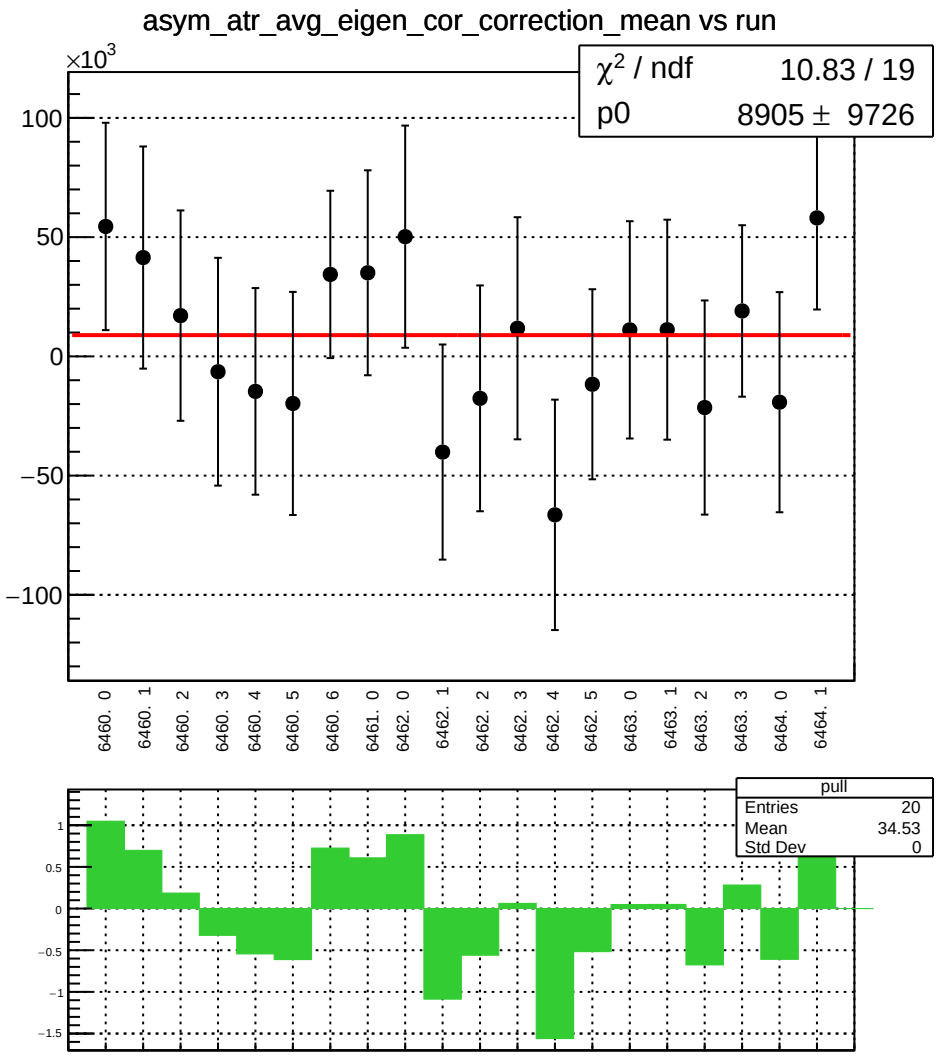

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 381.6 / 19
p0 4376 ± 6.877
4600
4500
4400
4300
4200
4100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

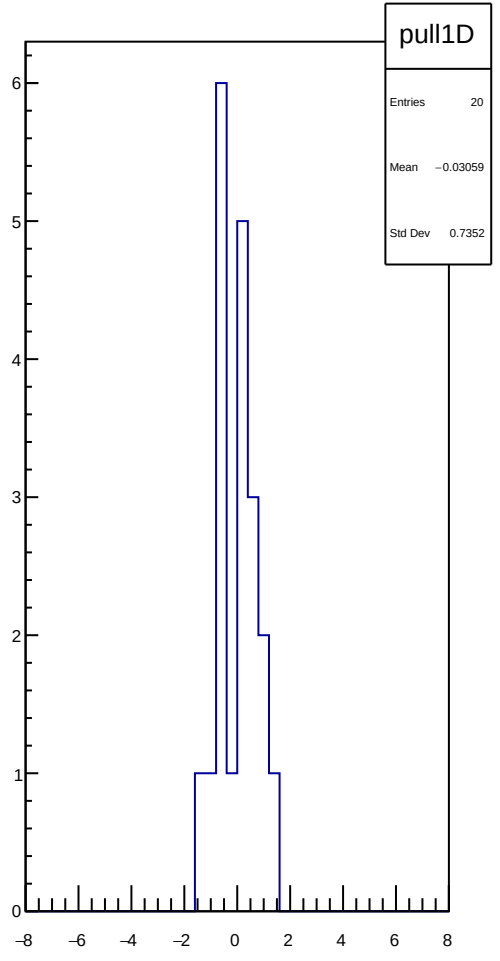

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 19.58 / 19
p0 5626 ± 4198
80000
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

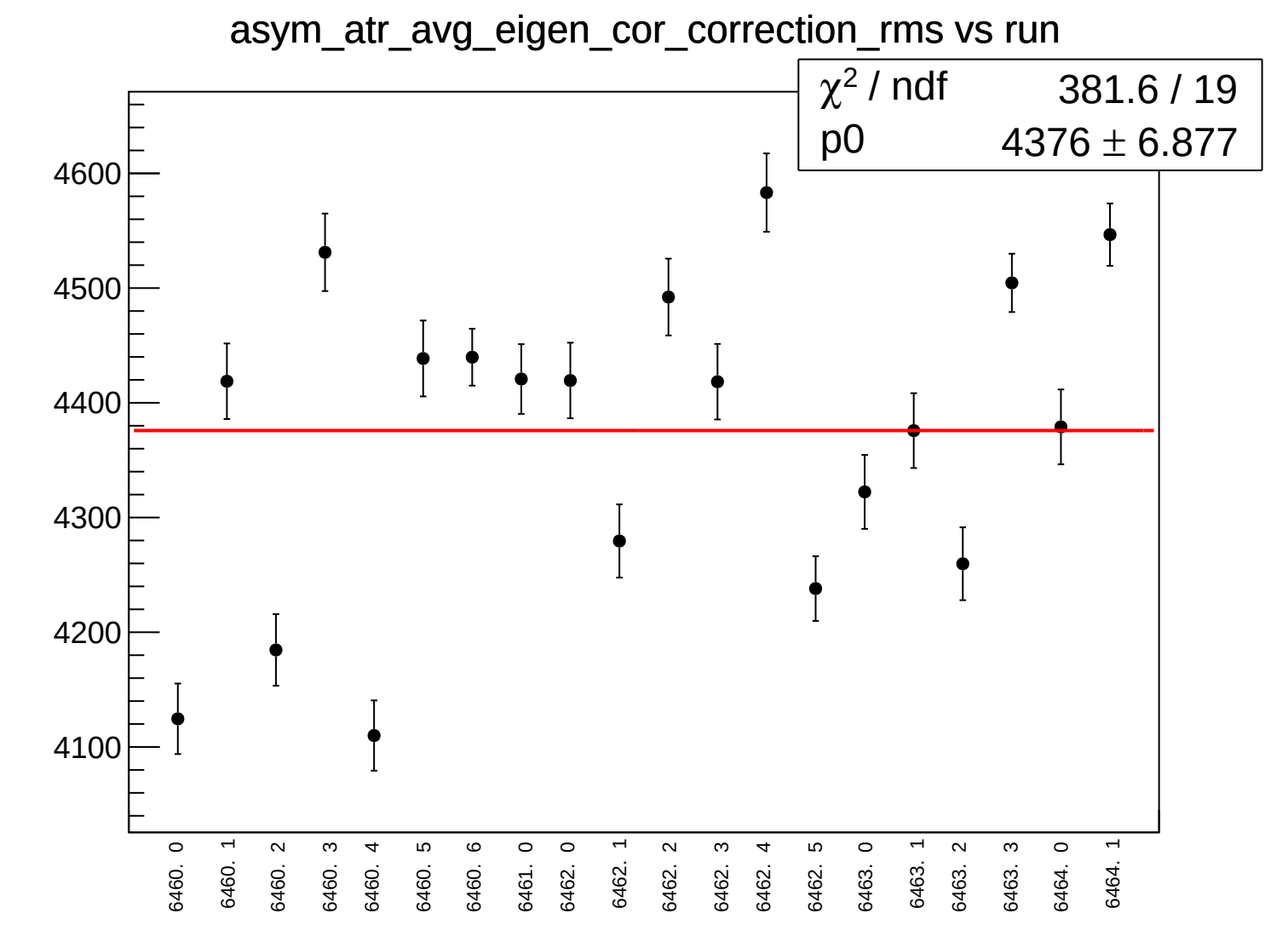

pull
Entries 20
Mean 13.72
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

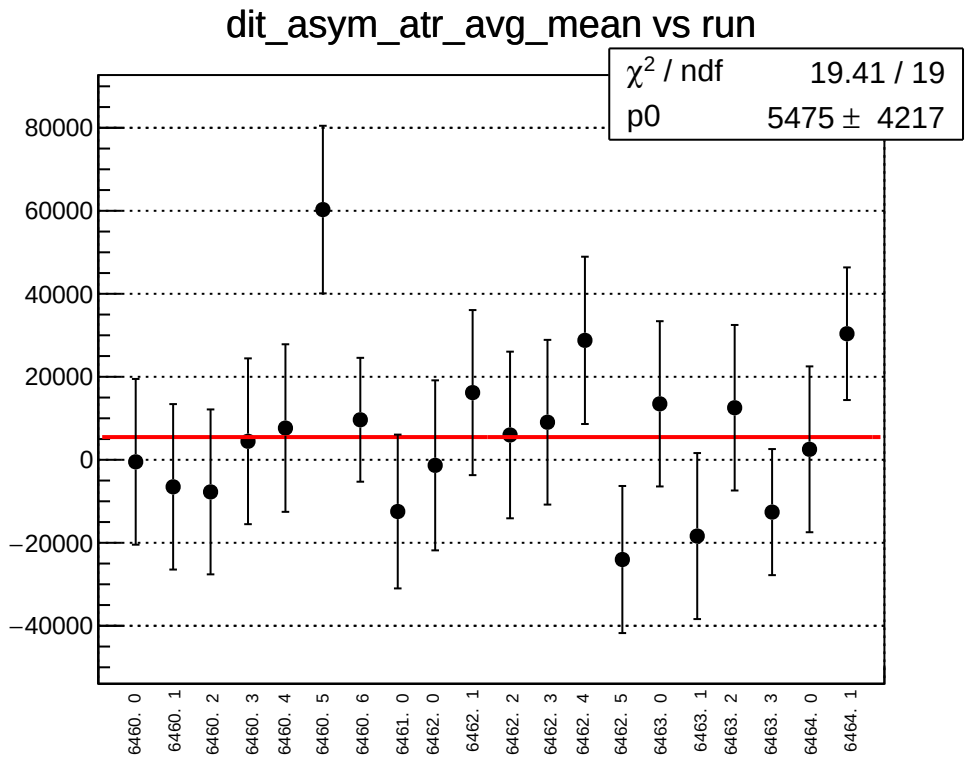

pull1D
Entries 20
Mean 0.01466
Std Dev 0.9894
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

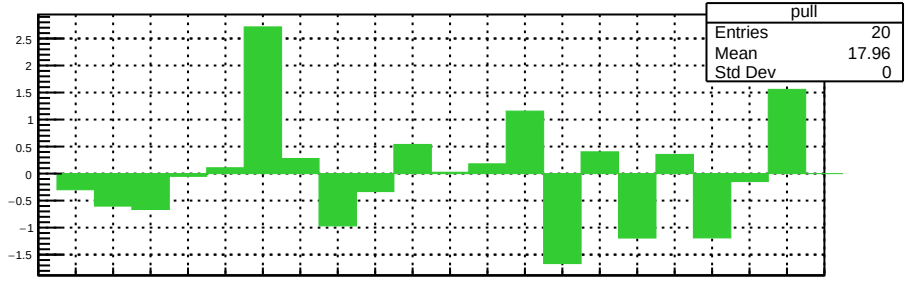

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 21.67 / 19
p0 1890 ± 2.968
1960
1940
1920
1900
1880
1860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

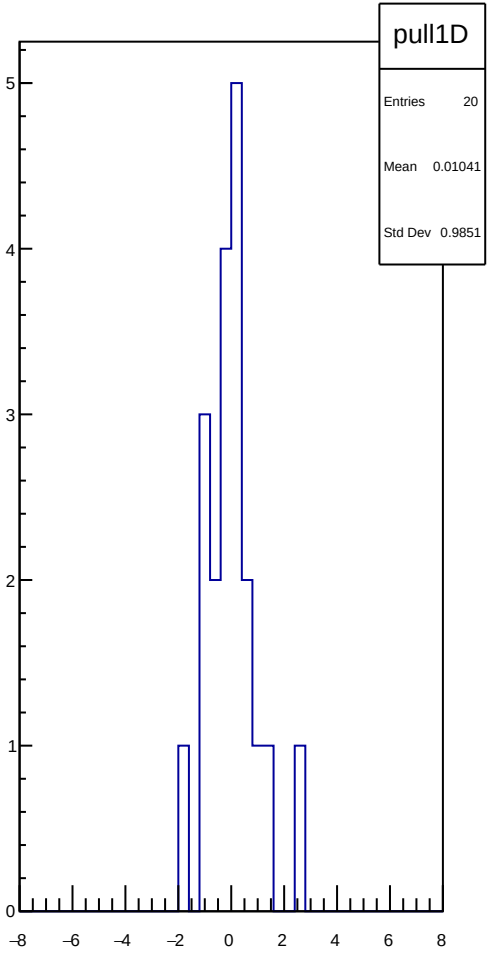

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 10.83 / 19
p0 8905 ± 9726
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.53
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

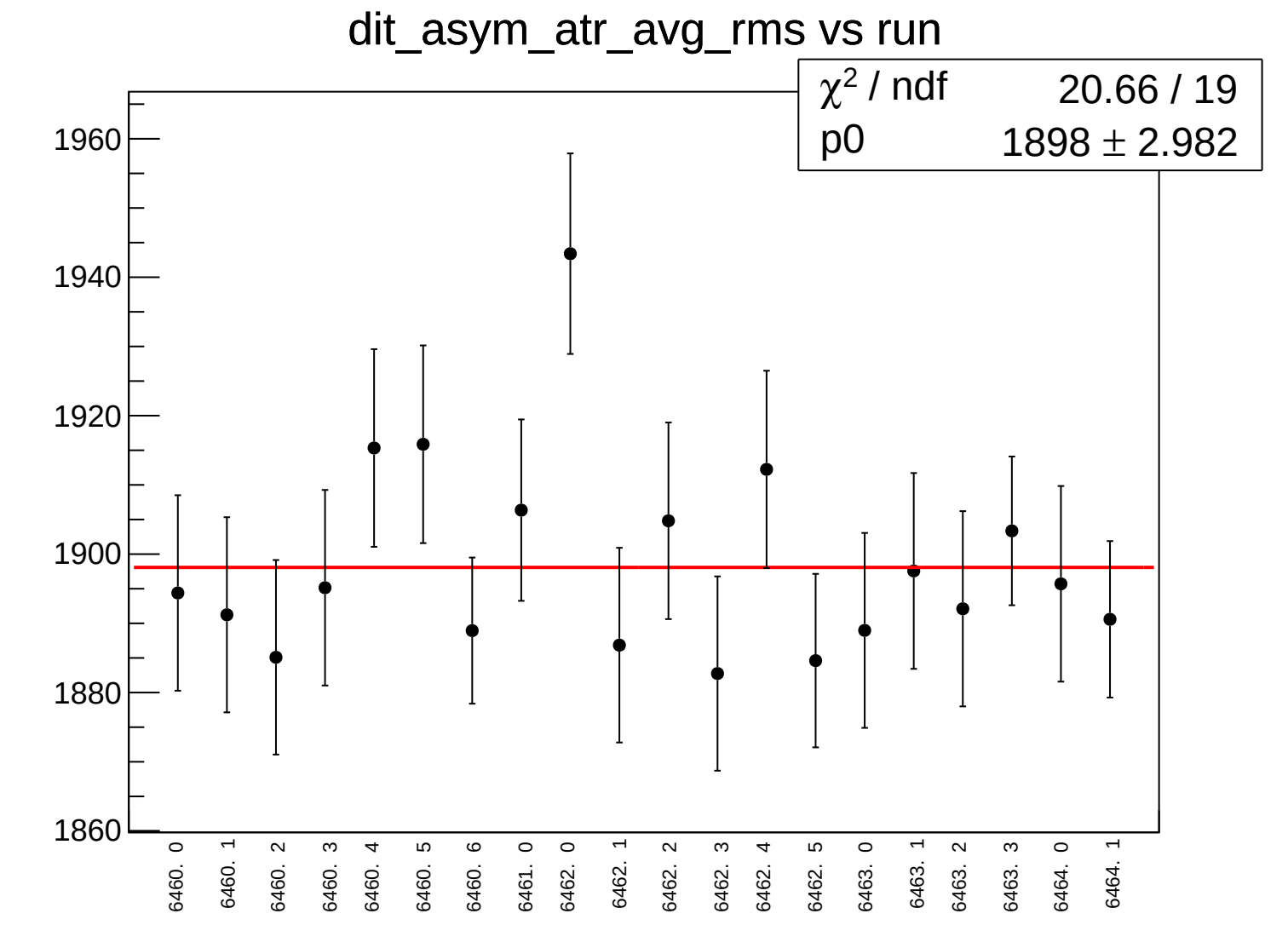

pull1D
Entries 20
Mean −0.03059
Std Dev 0.7352
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

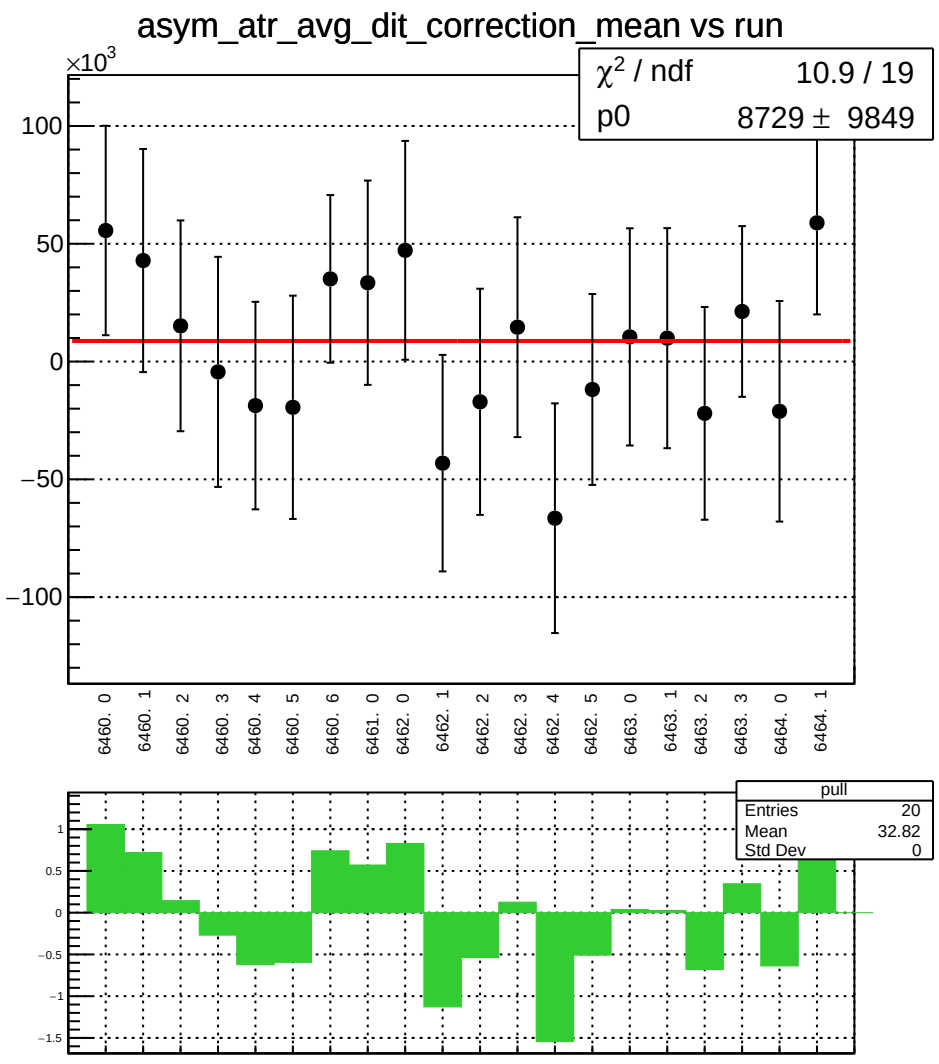

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 381.6 / 19
p0 4376 ± 6.877
4600
4500
4400
4300
4200
4100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

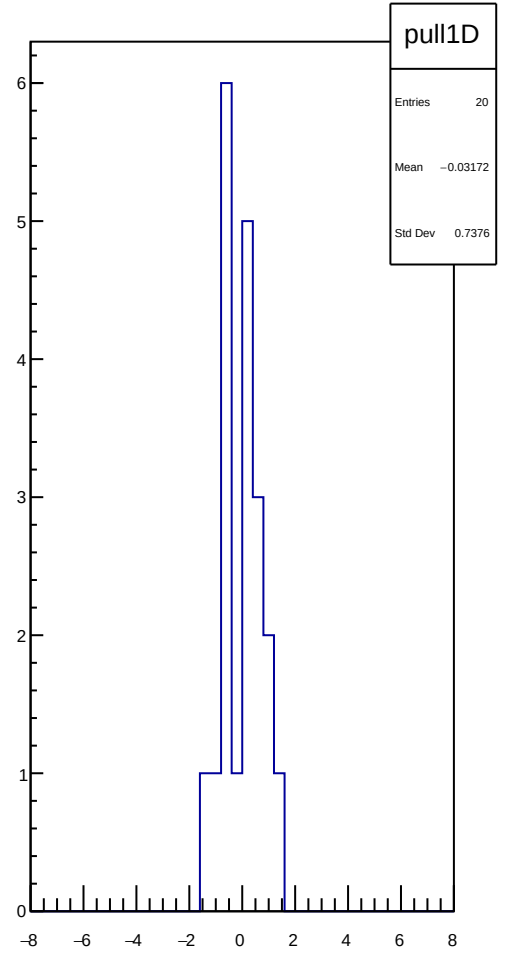

dit_asym_atr_avg_mean vs run
χ² / ndf 19.41 / 19
p0 5475 ± 4217
80000
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

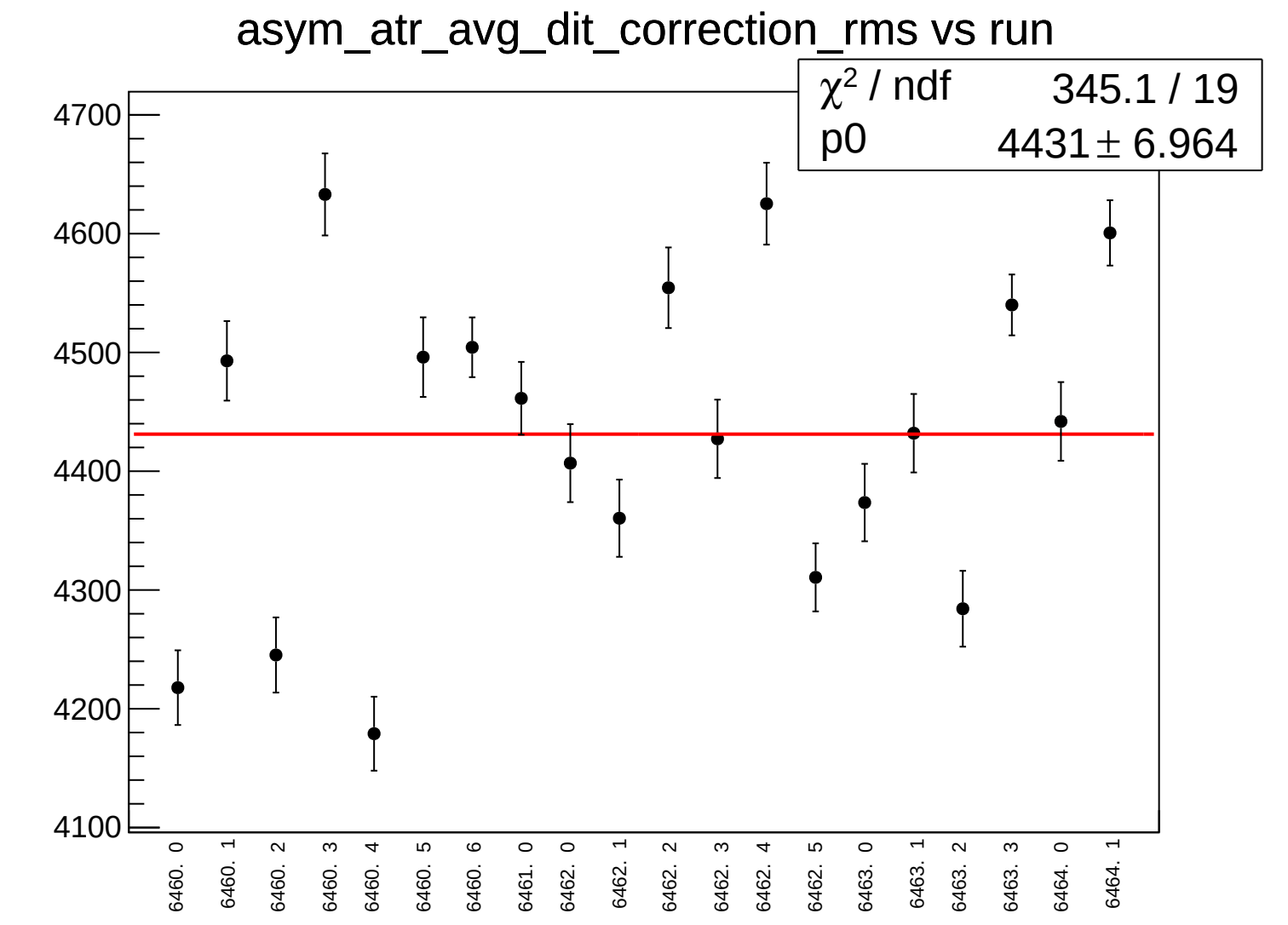

pull
Entries 20
Mean 17.96
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

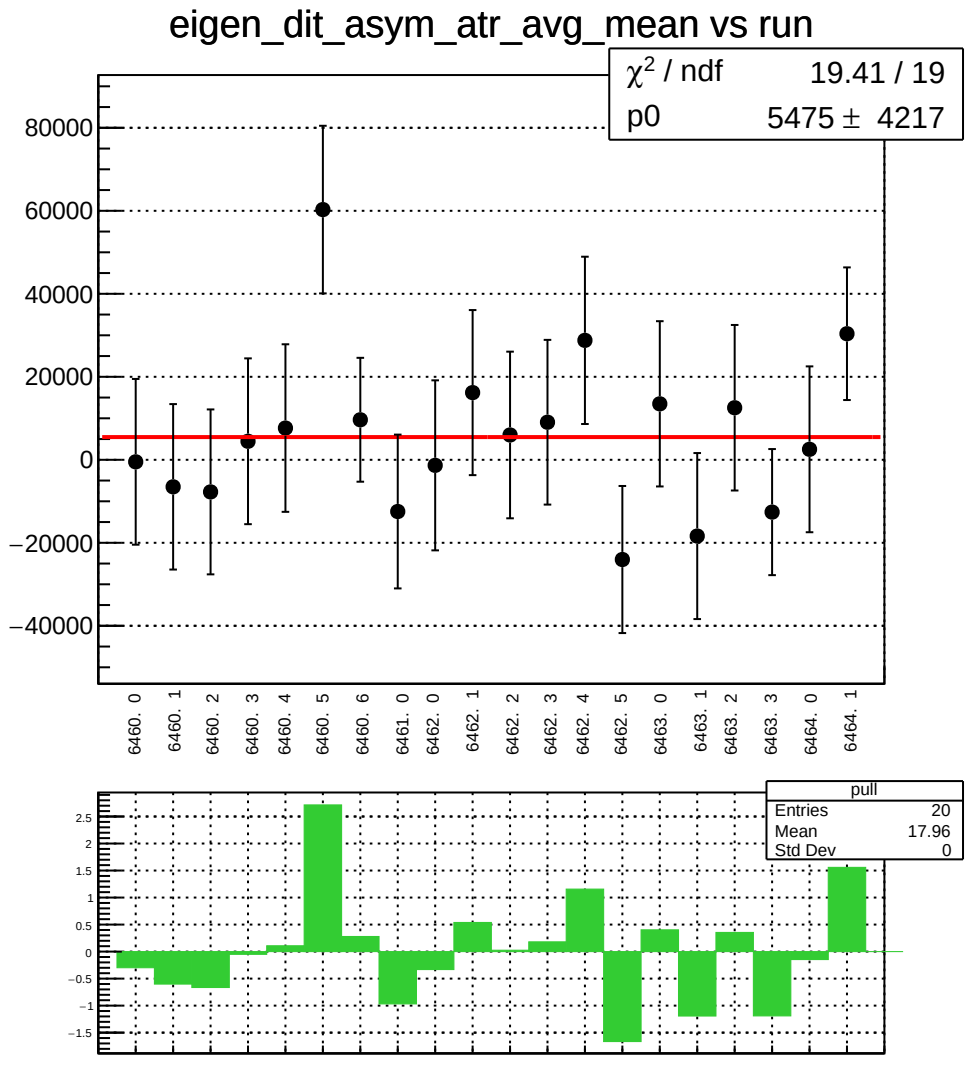

pull1D
Entries 20
Mean 0.01041
Std Dev 0.9851
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

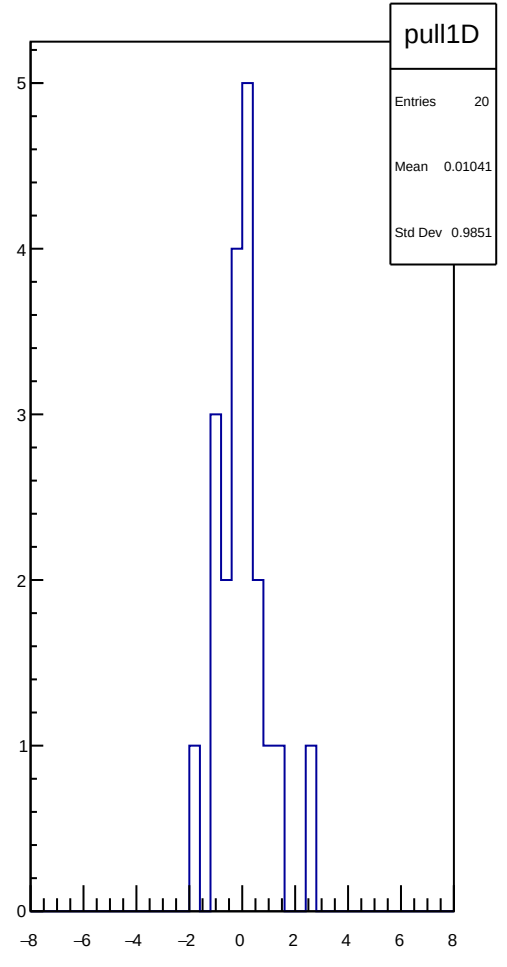

dit_asym_atr_avg_rms vs run
χ² / ndf 20.66 / 19
p0 1898 ± 2.982
1960
1940
1920
1900
1880
1860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

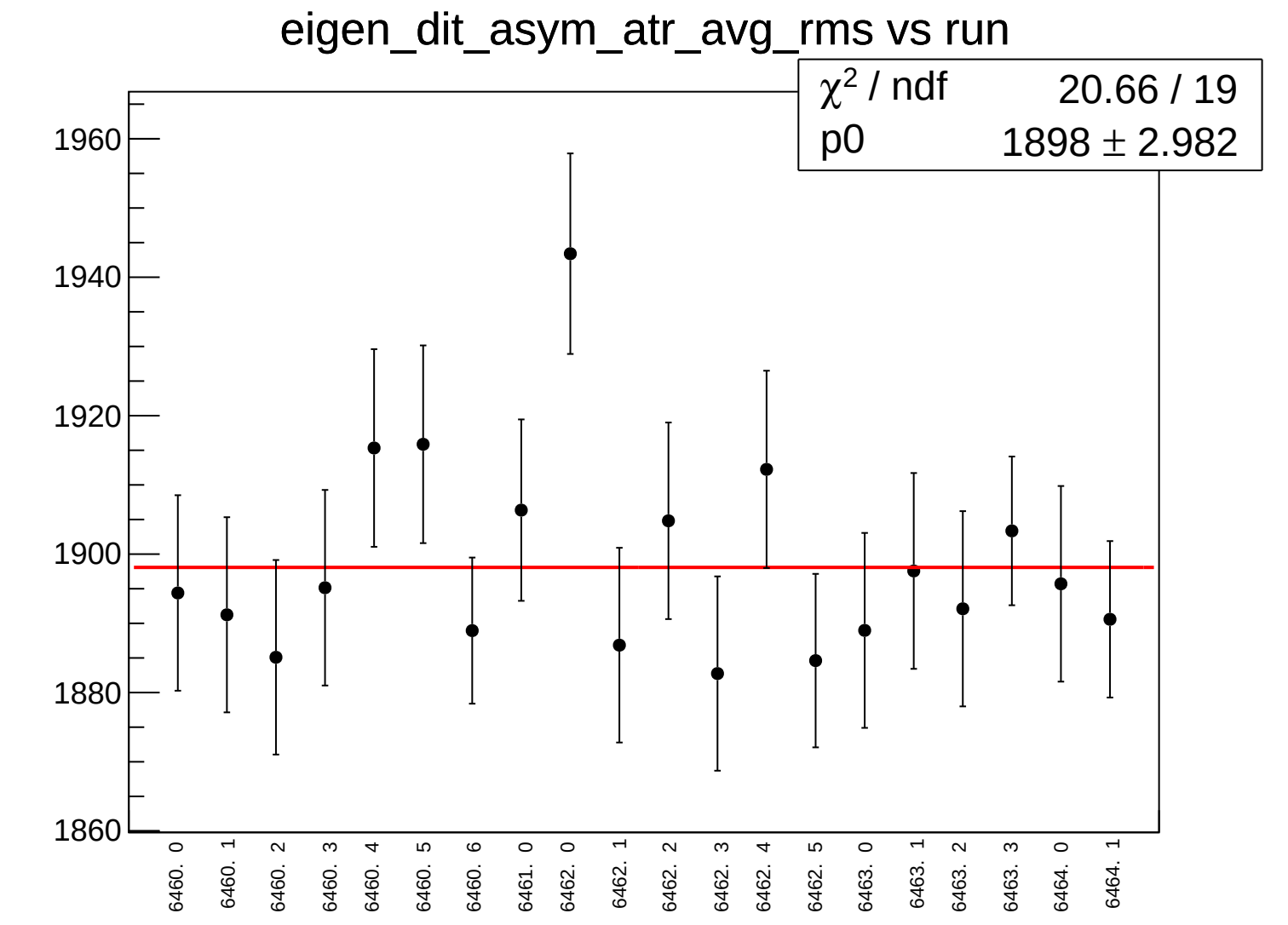

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 10.9 / 19
p0 8729 ± 9849
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.82
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

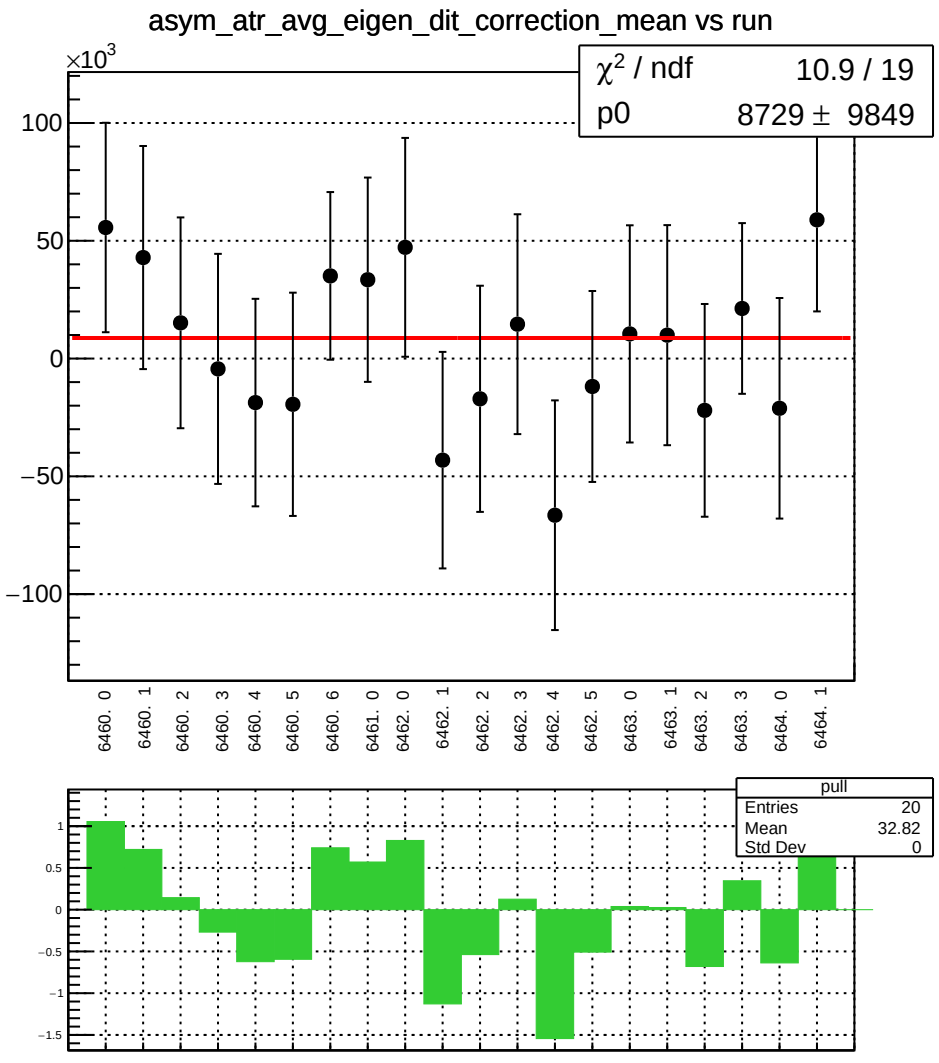

pull1D
Entries 20
Mean −0.03172
Std Dev 0.7376
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

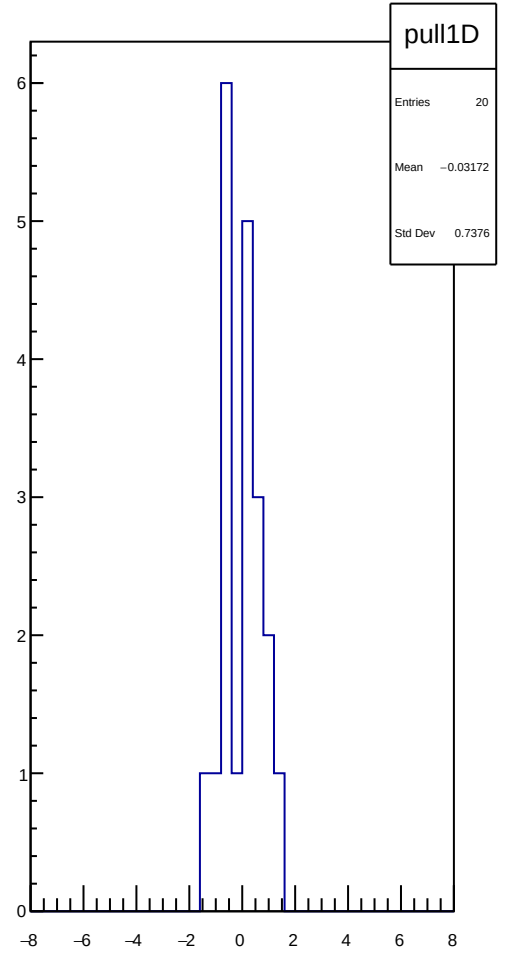

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 345.1 / 19
p0 4431 ± 6.964
4700
4600
4500
4400
4300
4200
4100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

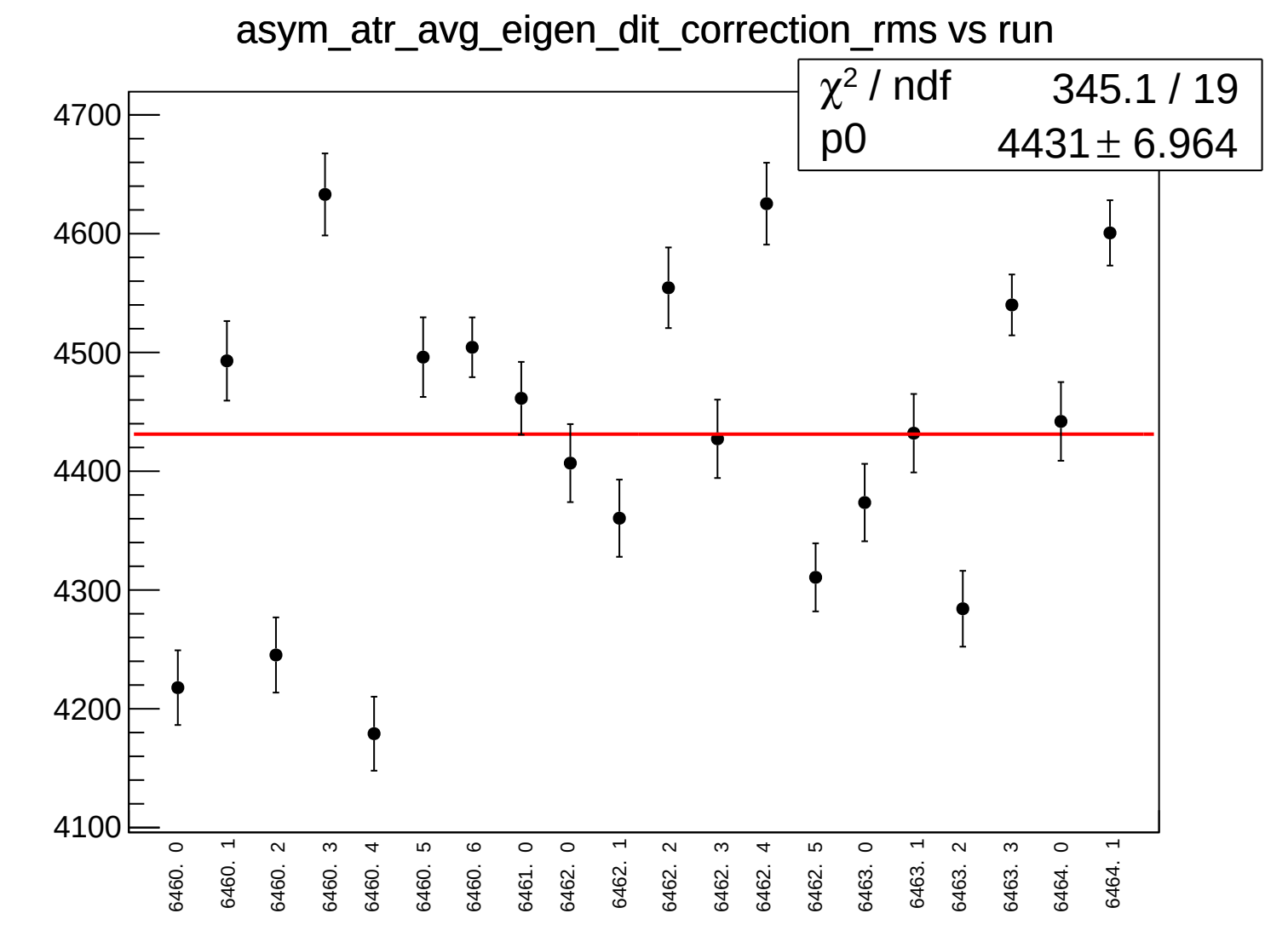

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 19.41 / 19
p0 5475 ± 4217
80000
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 17.96
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

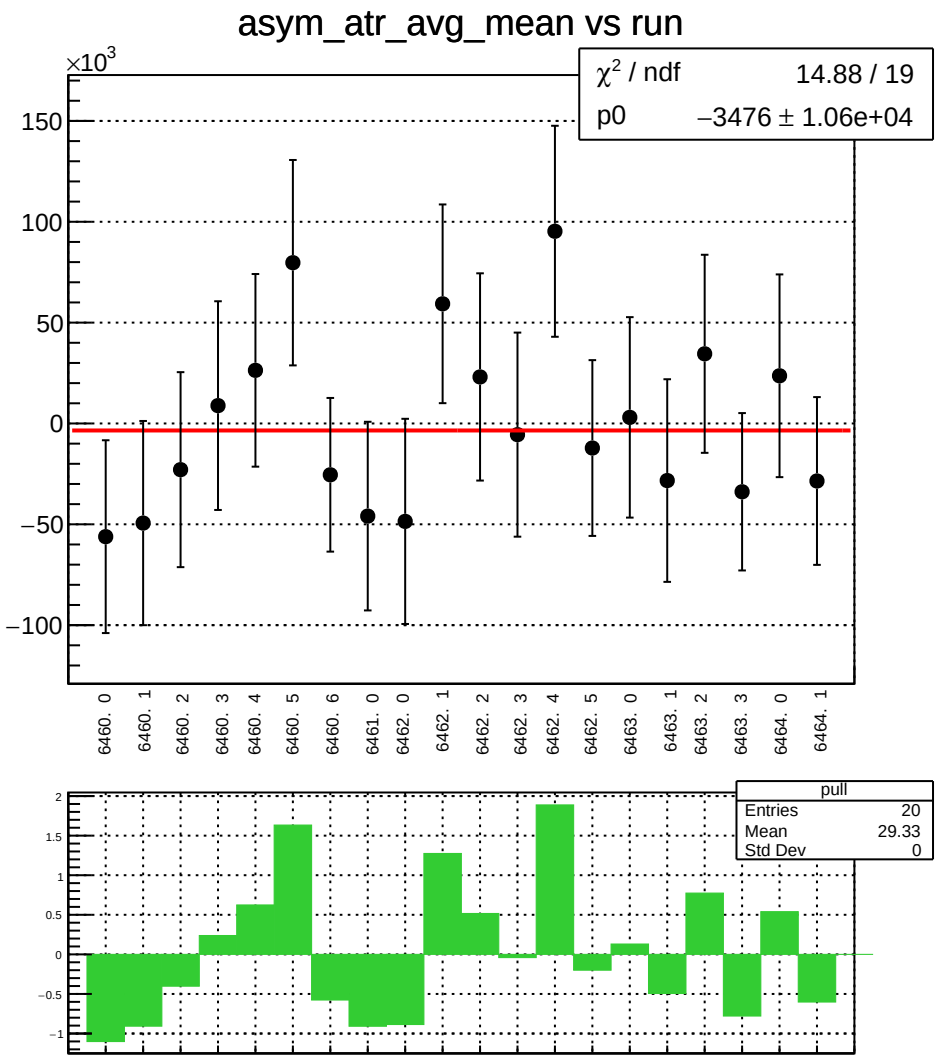

pull1D
Entries 20
Mean 0.01041
Std Dev 0.9851
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

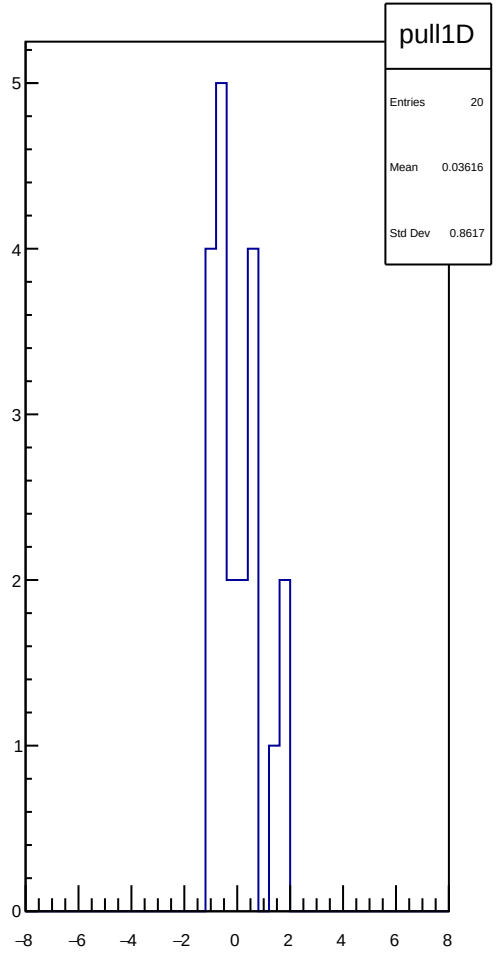

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 20.66 / 19
p0 1898 ± 2.982
1960
1940
1920
1900
1880
1860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

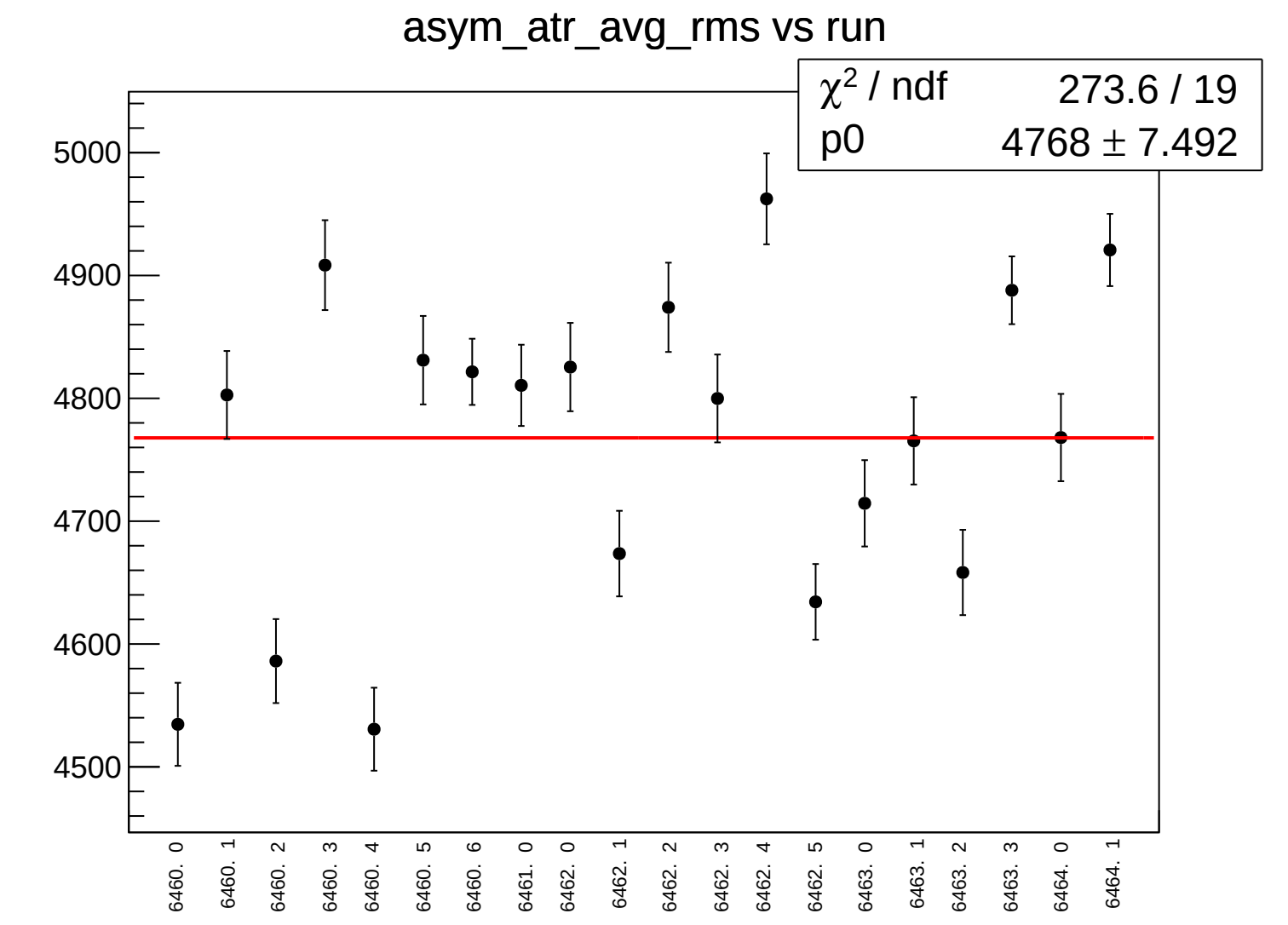

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 10.9 / 19
p0 8729 ± 9849
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.82
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

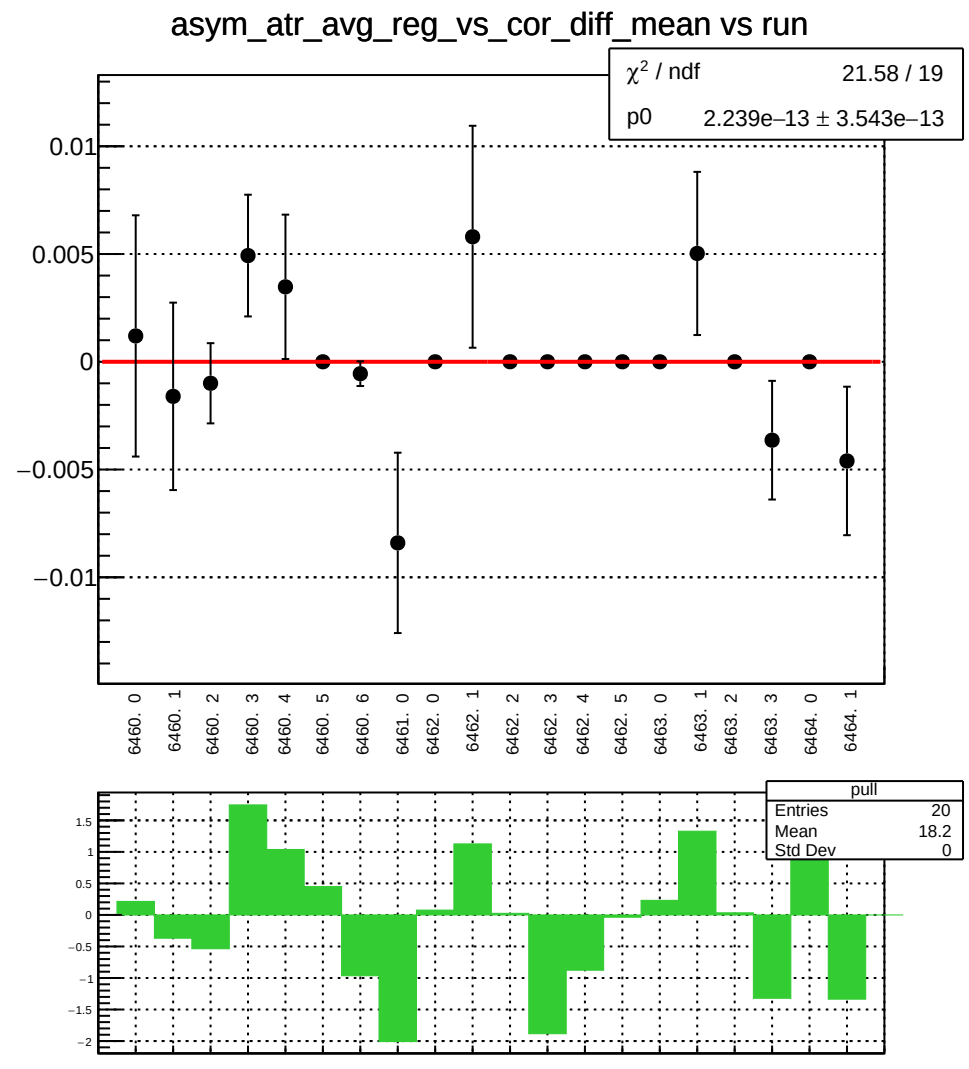

pull1D
Entries 20
Mean −0.03172
Std Dev 0.7376
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

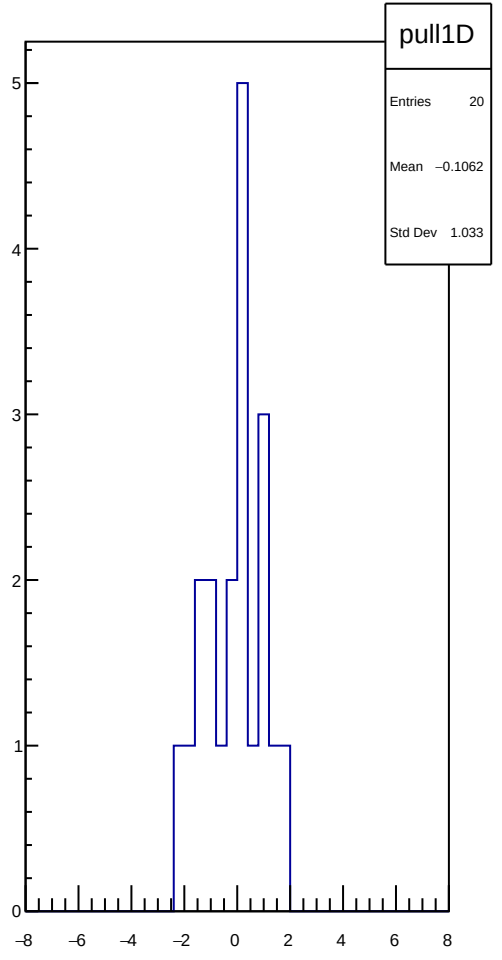

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 345.1 / 19
p0 4431 ± 6.964
4700
4600
4500
4400
4300
4200
4100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

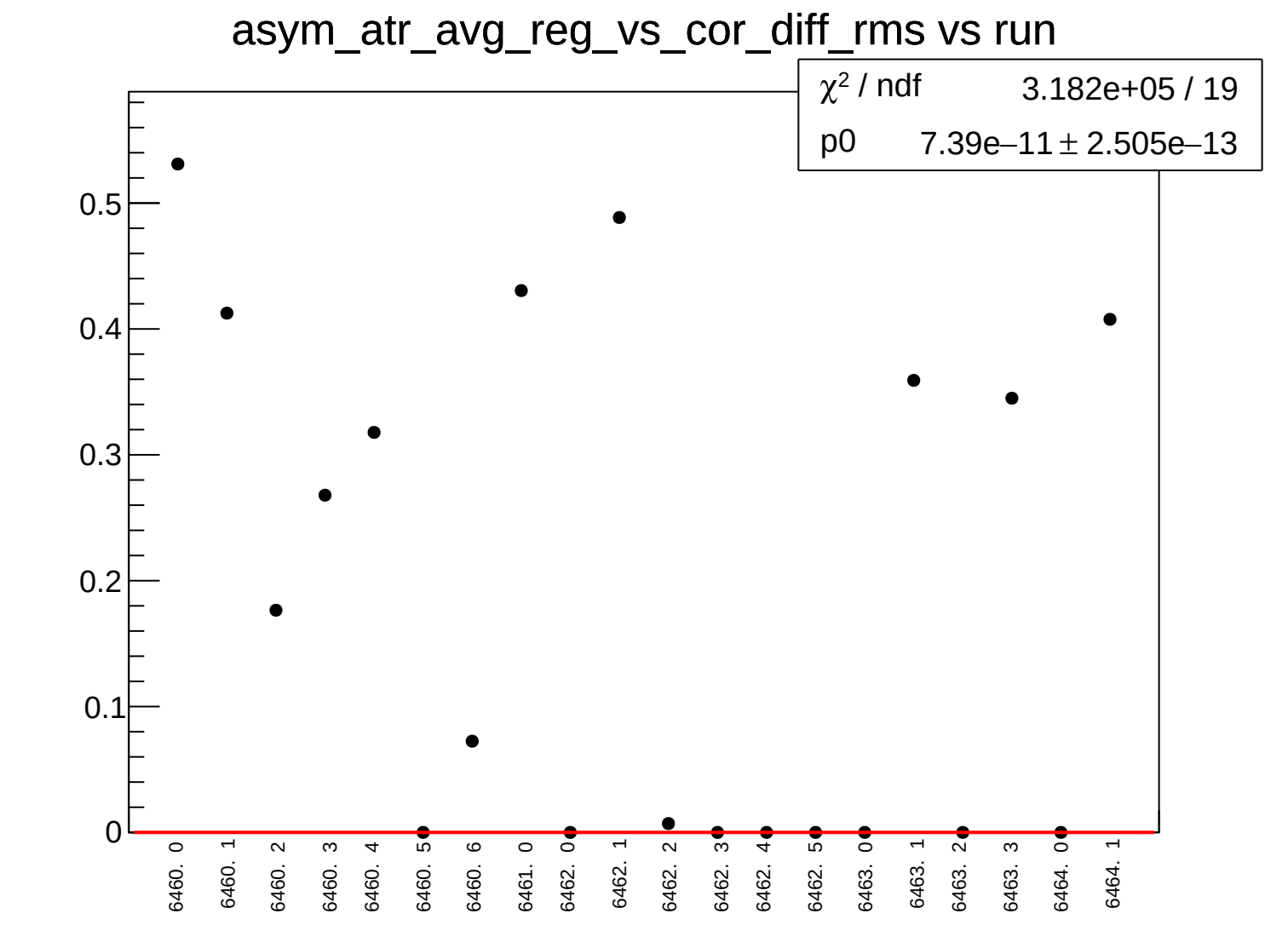

asym_atr_avg_mean vs run
×10^3
χ² / ndf 14.88 / 19
p0 −3476 ± 1.06e+04
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

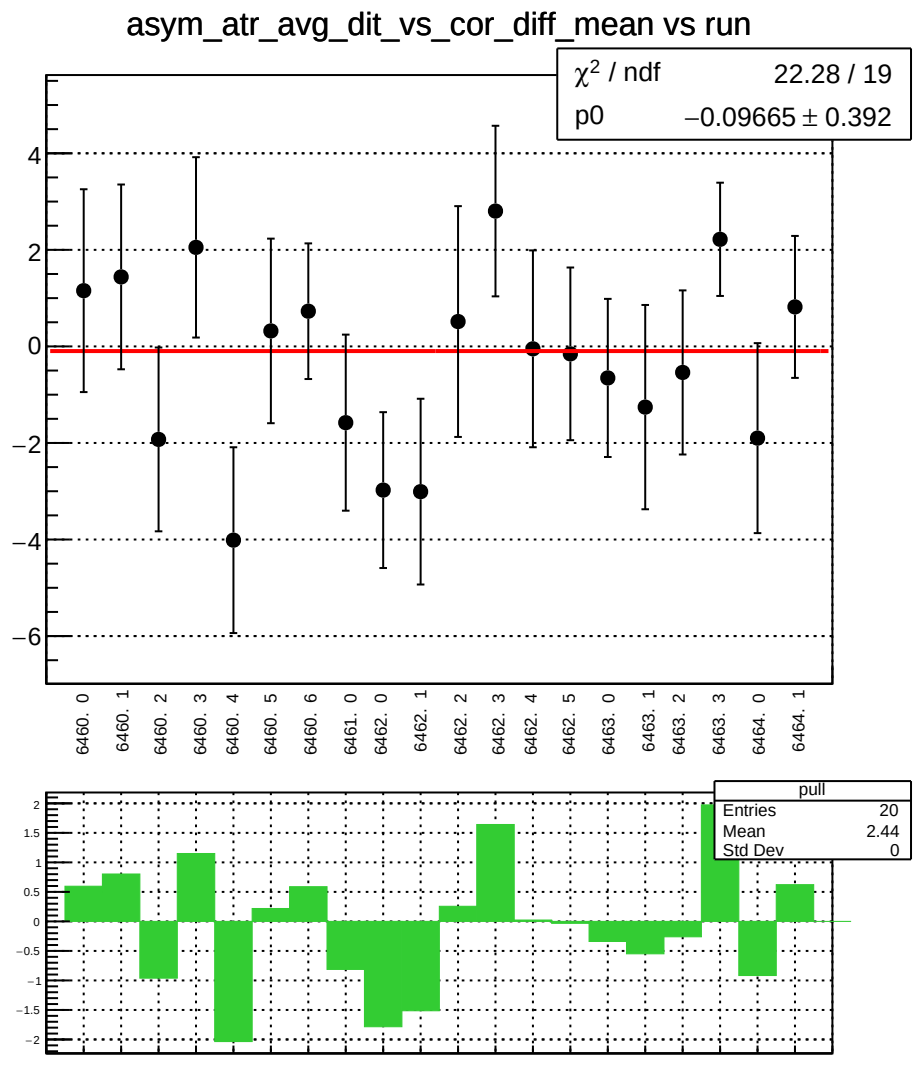

pull1D
Entries 20
Mean 0.03616
Std Dev 0.8617
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

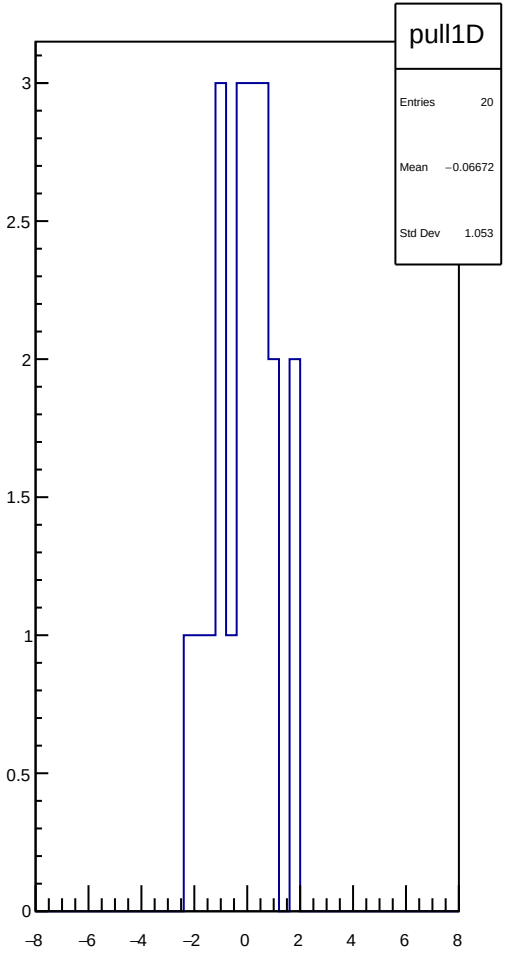

asym_atr_avg_rms vs run
χ^2 / ndf 273.6 / 19
p0 4768 ± 7.492
5000
4900
4800
4700
4600
4500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

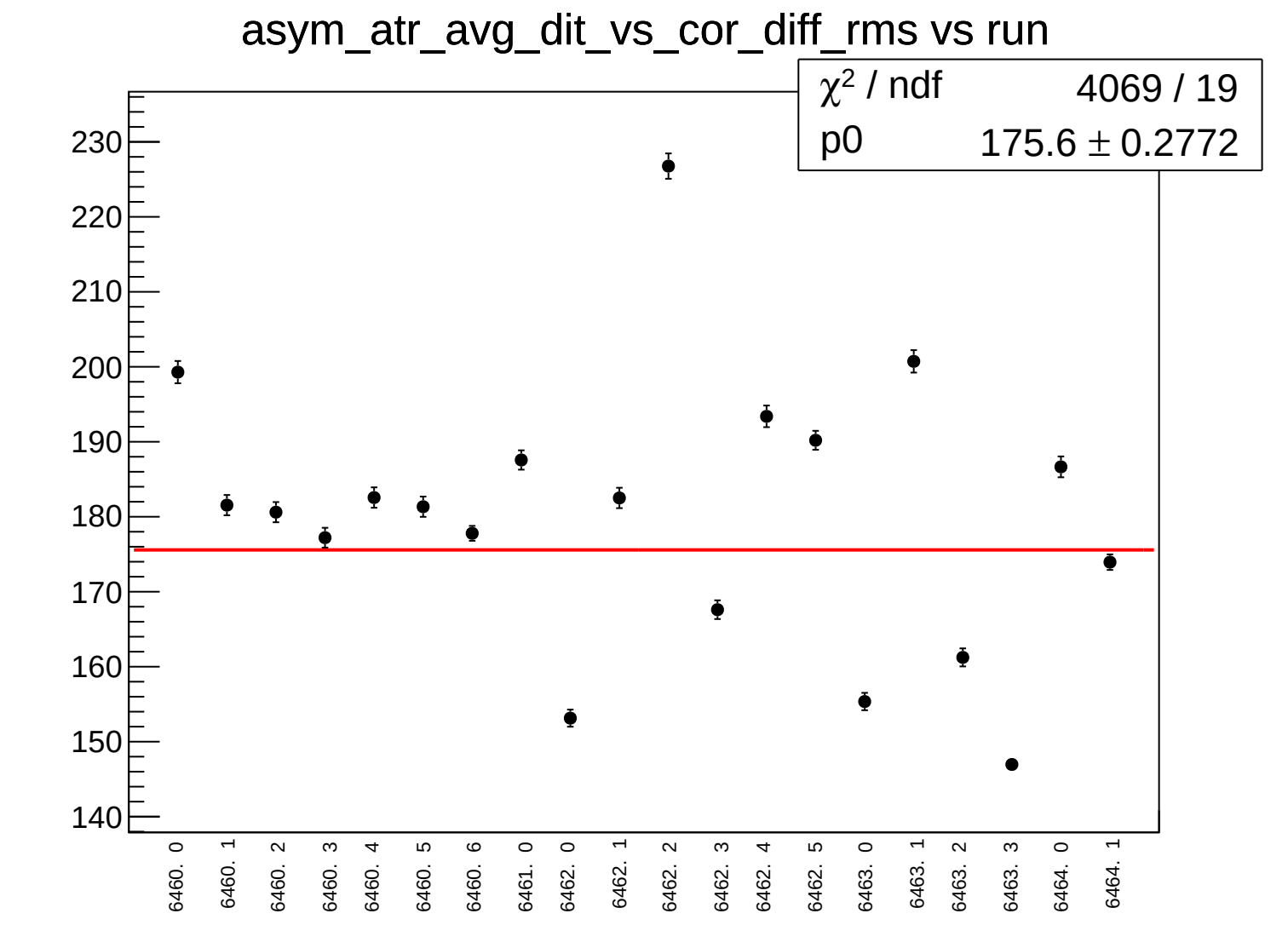

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.58 / 19
p0 2.239e−13 ± 3.543e−13
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

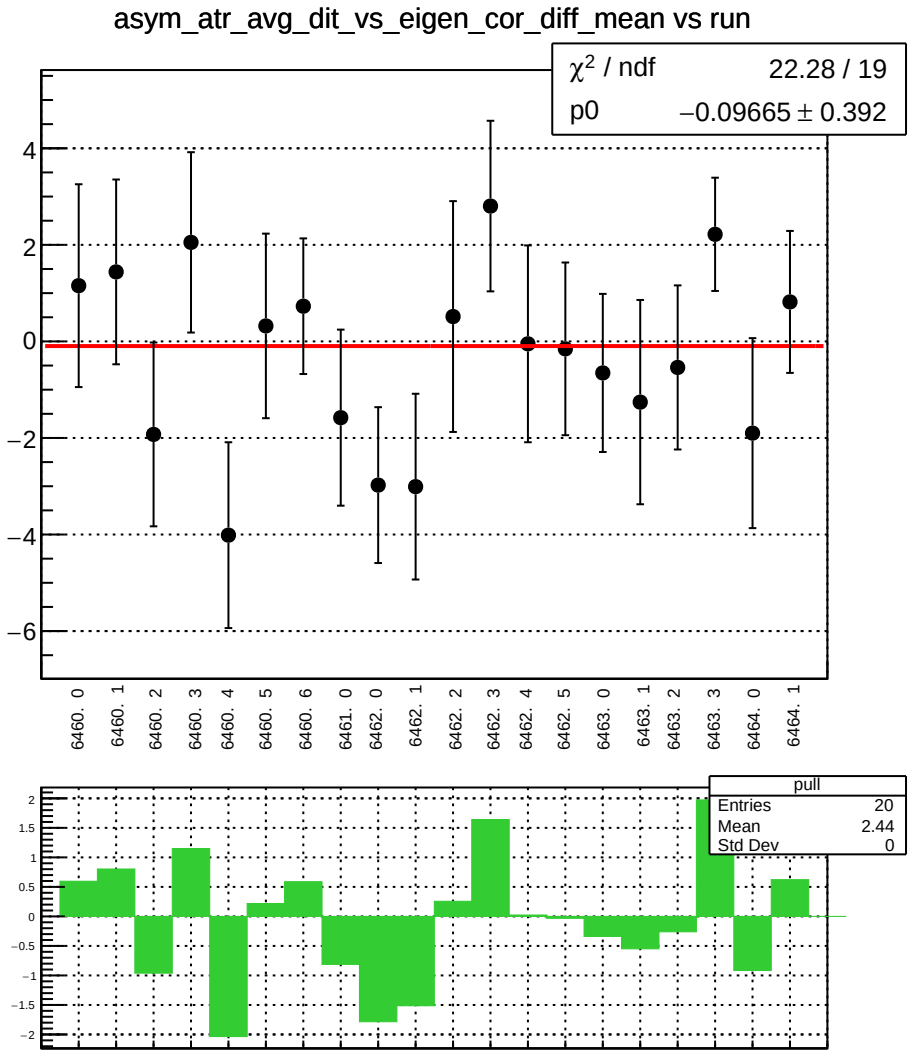

pull1D
Entries 20
Mean −0.1062
Std Dev 1.033
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

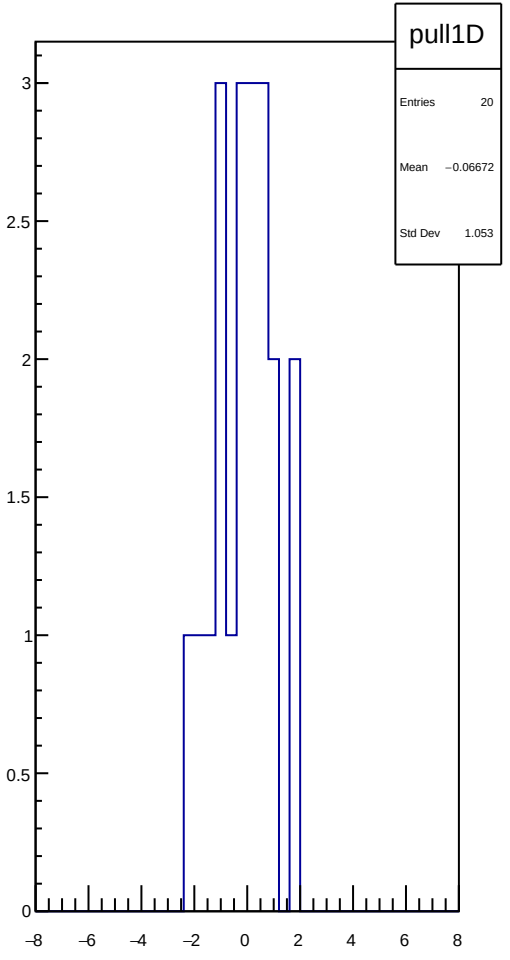

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.182e+05 / 19
p0 7.39e−11 ± 2.505e−13
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

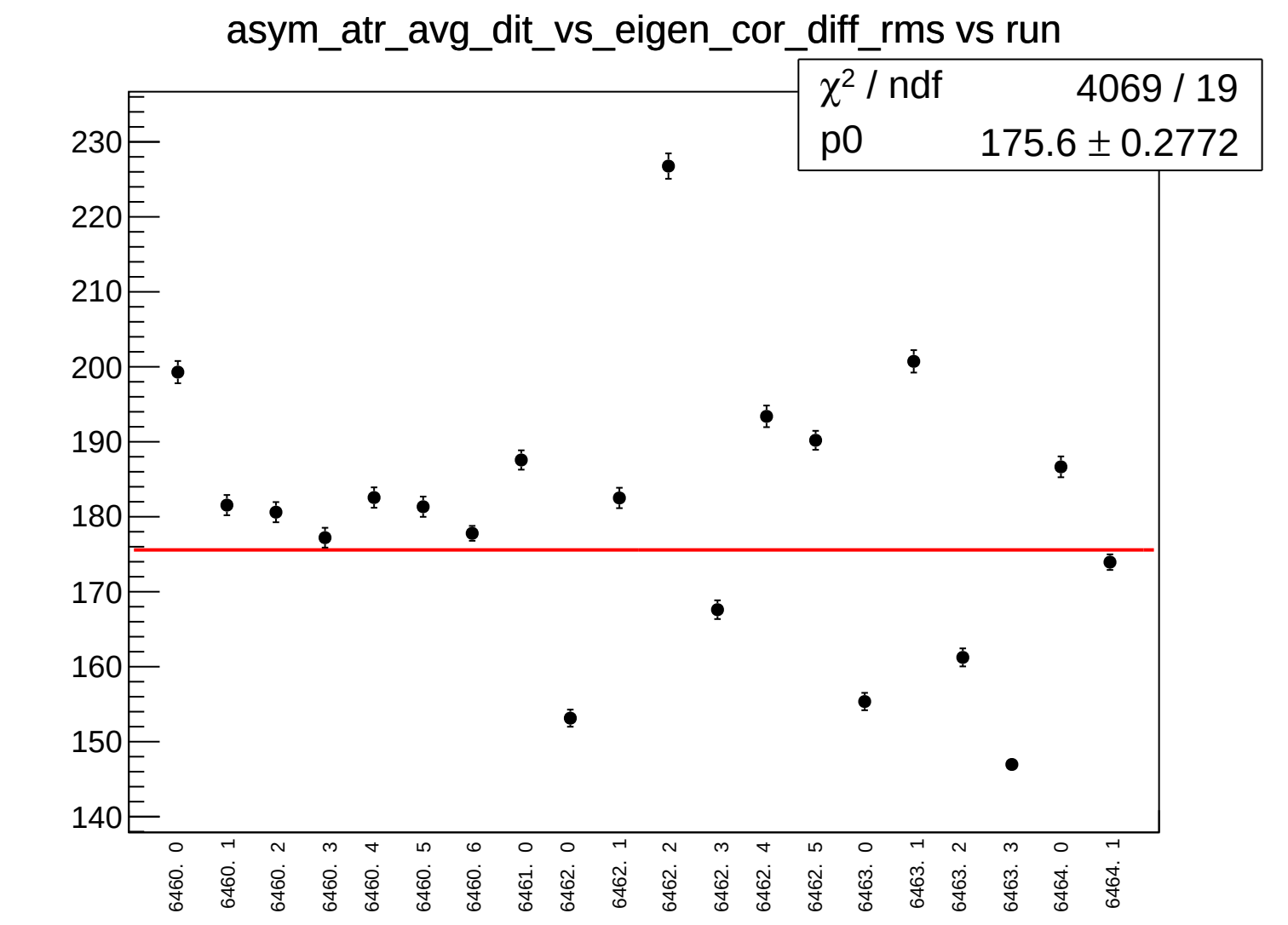

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 22.28 / 19
p0 −0.09665 ± 0.392
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.44
Std Dev 0

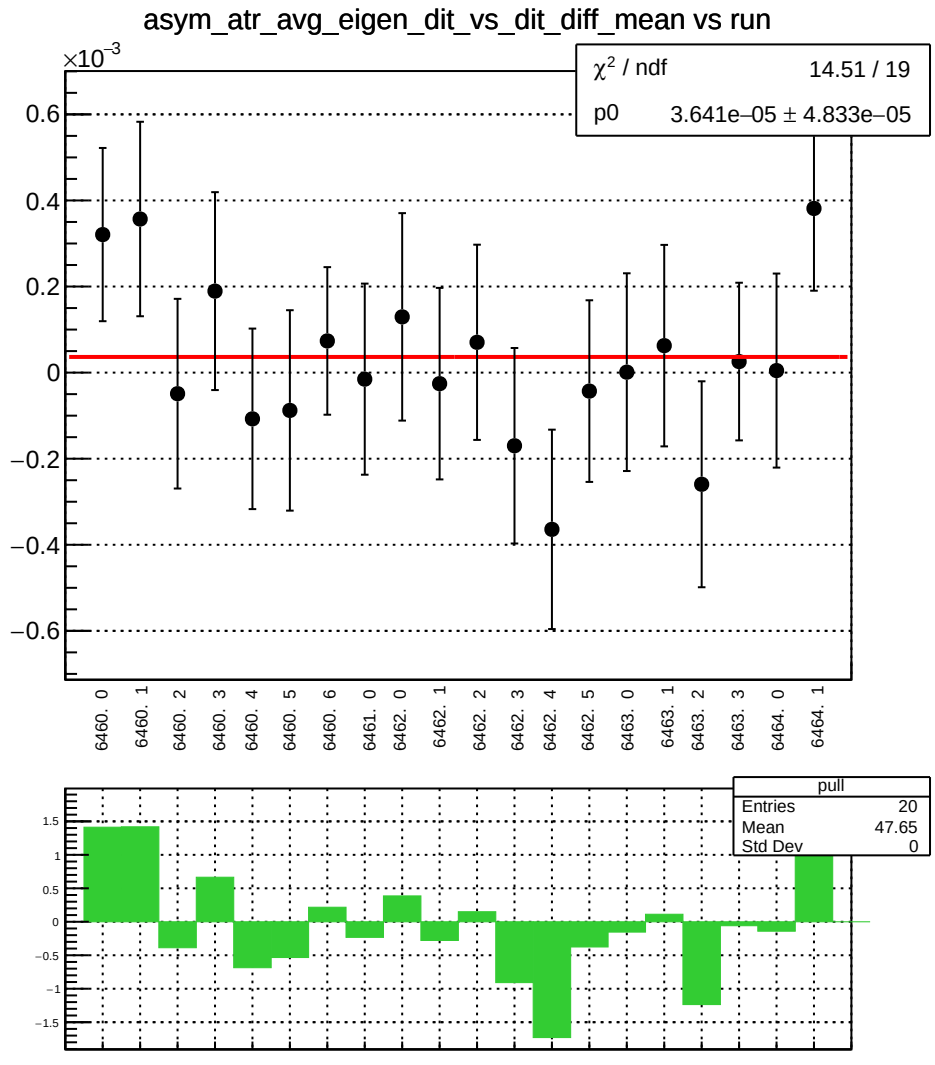

pull1D
Entries 20
Mean −0.06672
Std Dev 1.053

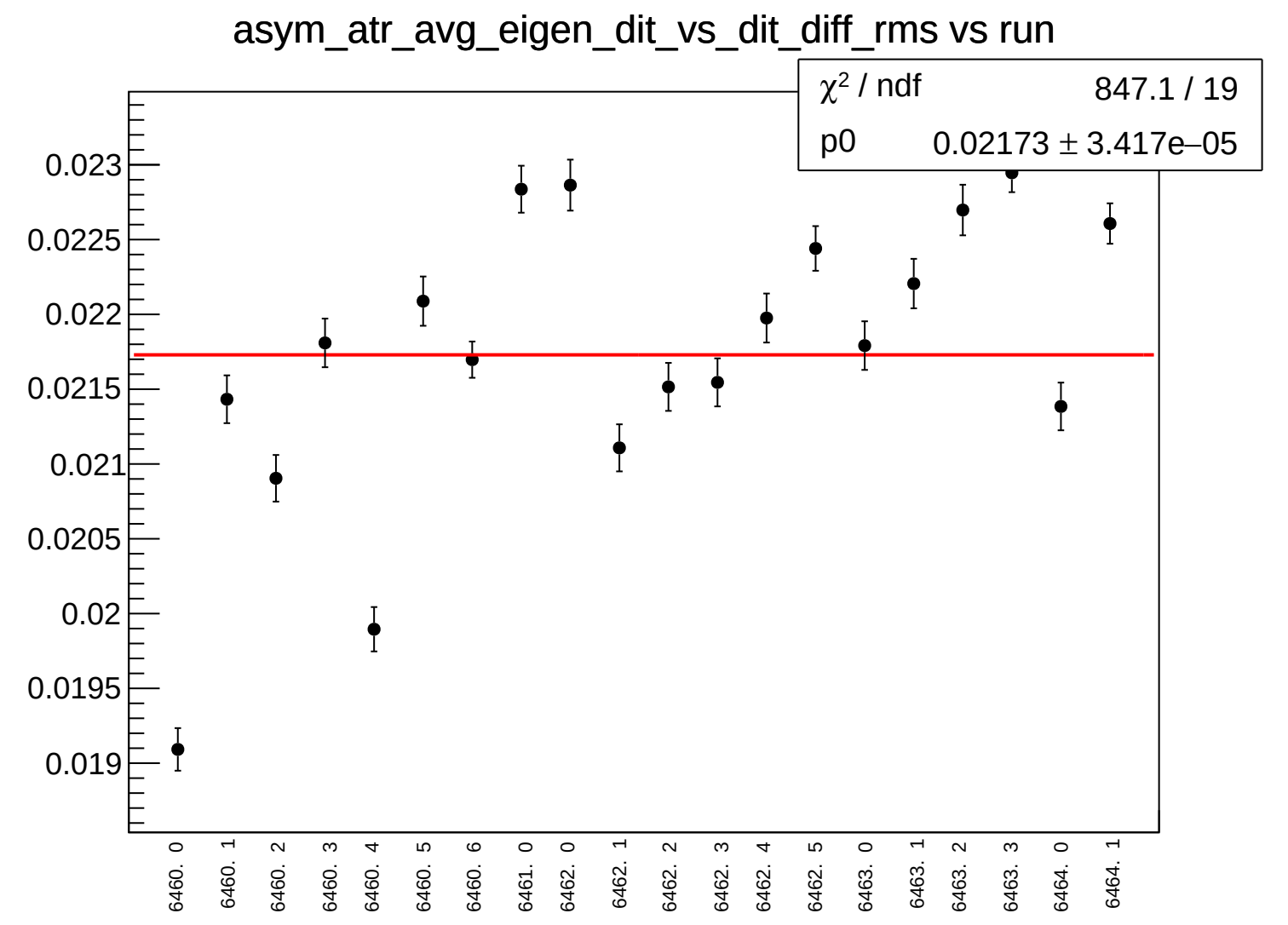

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4069 / 19
p0 175.6 ± 0.2772
230
220
210
200
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

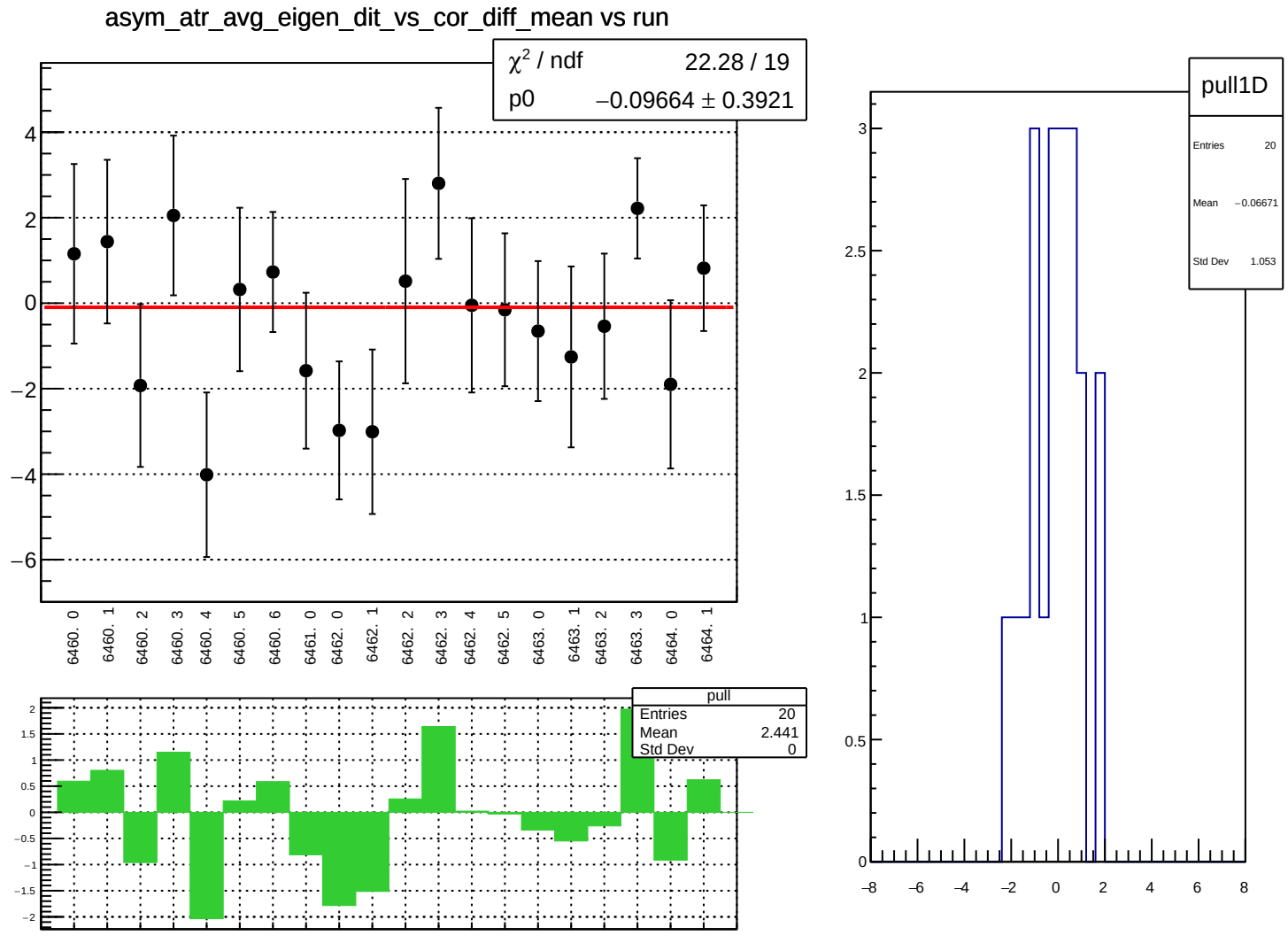

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.28 / 19
p0 −0.09665 ± 0.392
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.44
Std Dev 0

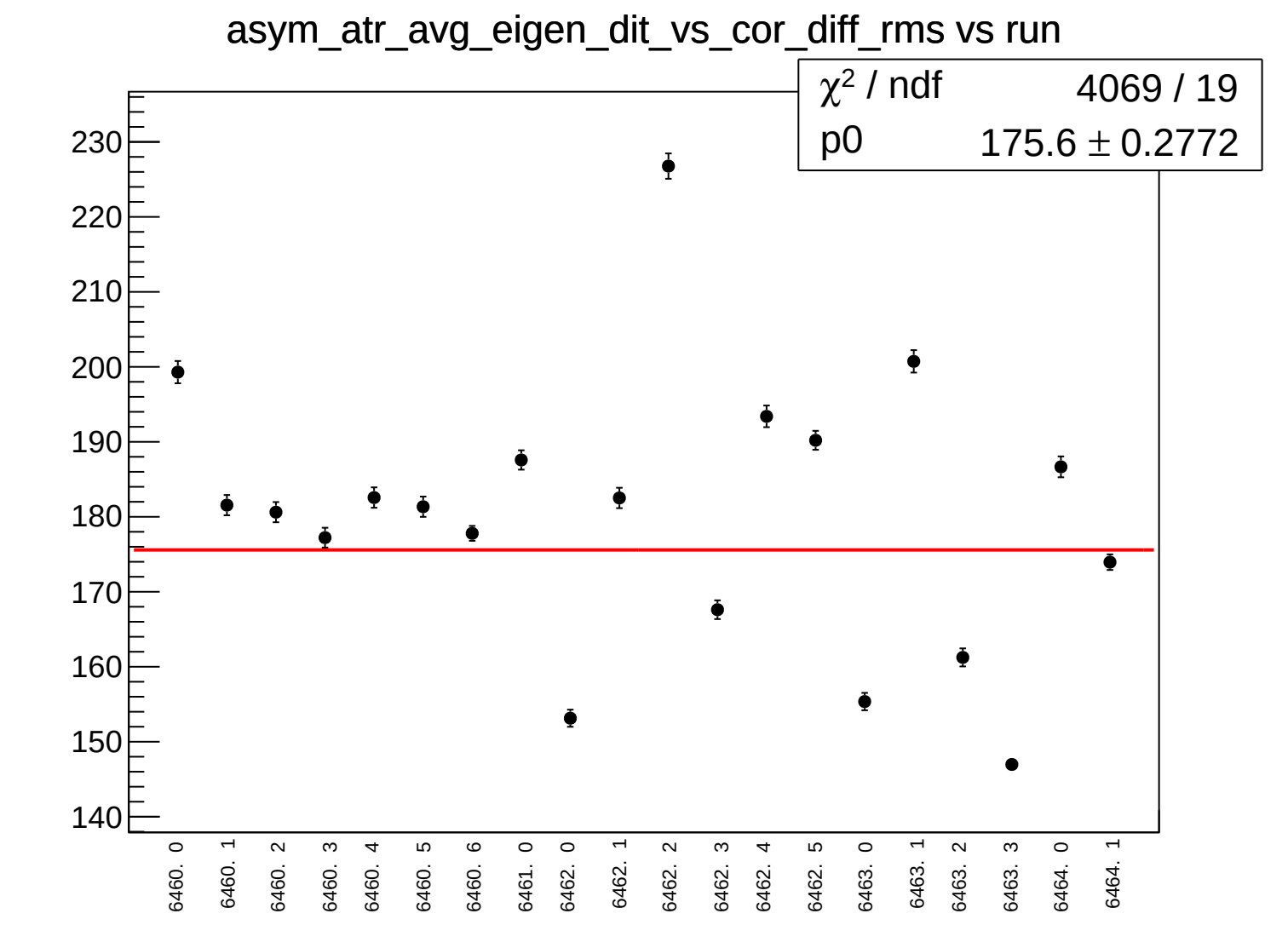

pull1D
Entries 20
Mean −0.06672
Std Dev 1.053

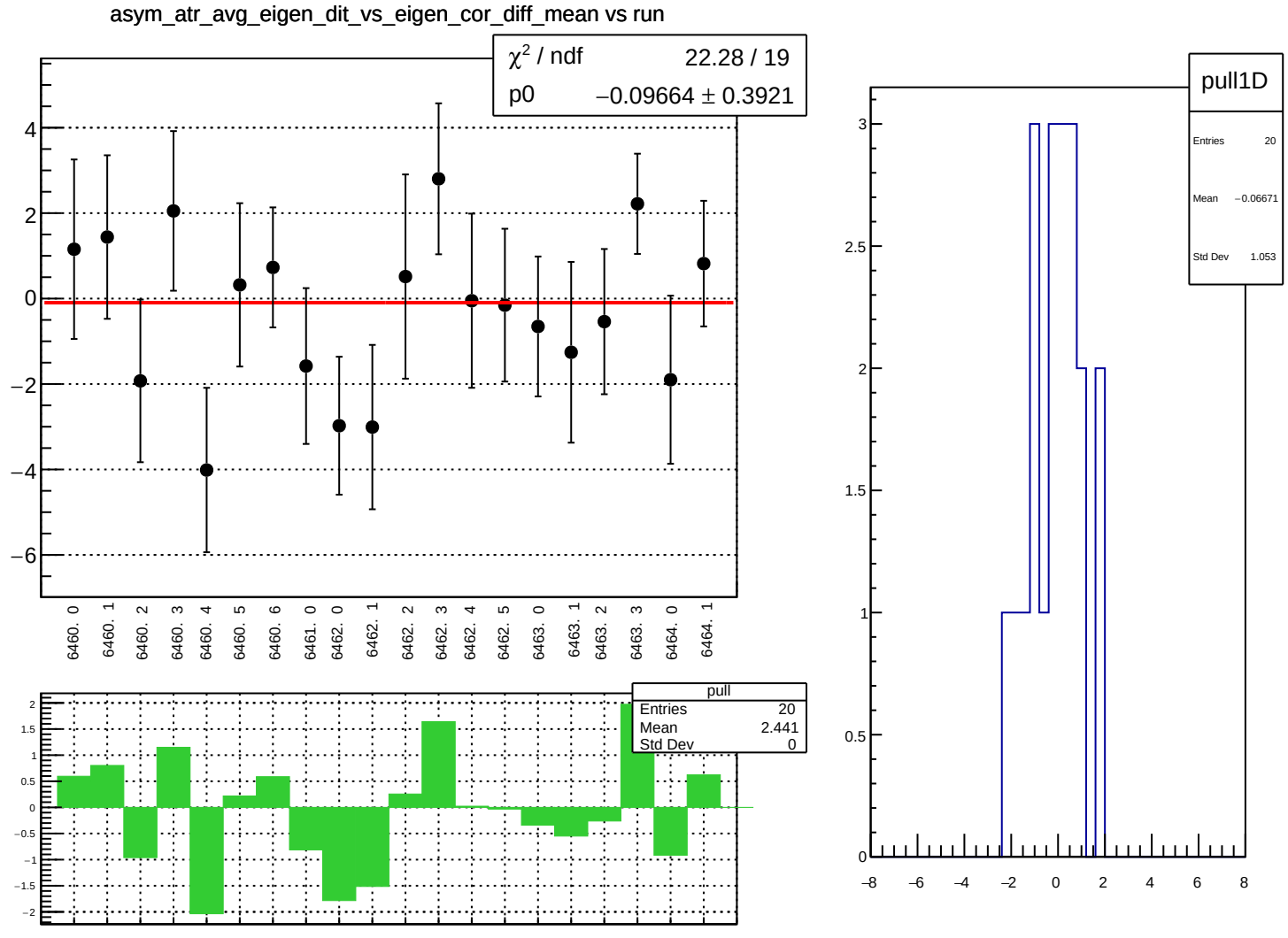

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4069 / 19
p0 175.6 ± 0.2772
230
220
210
200
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

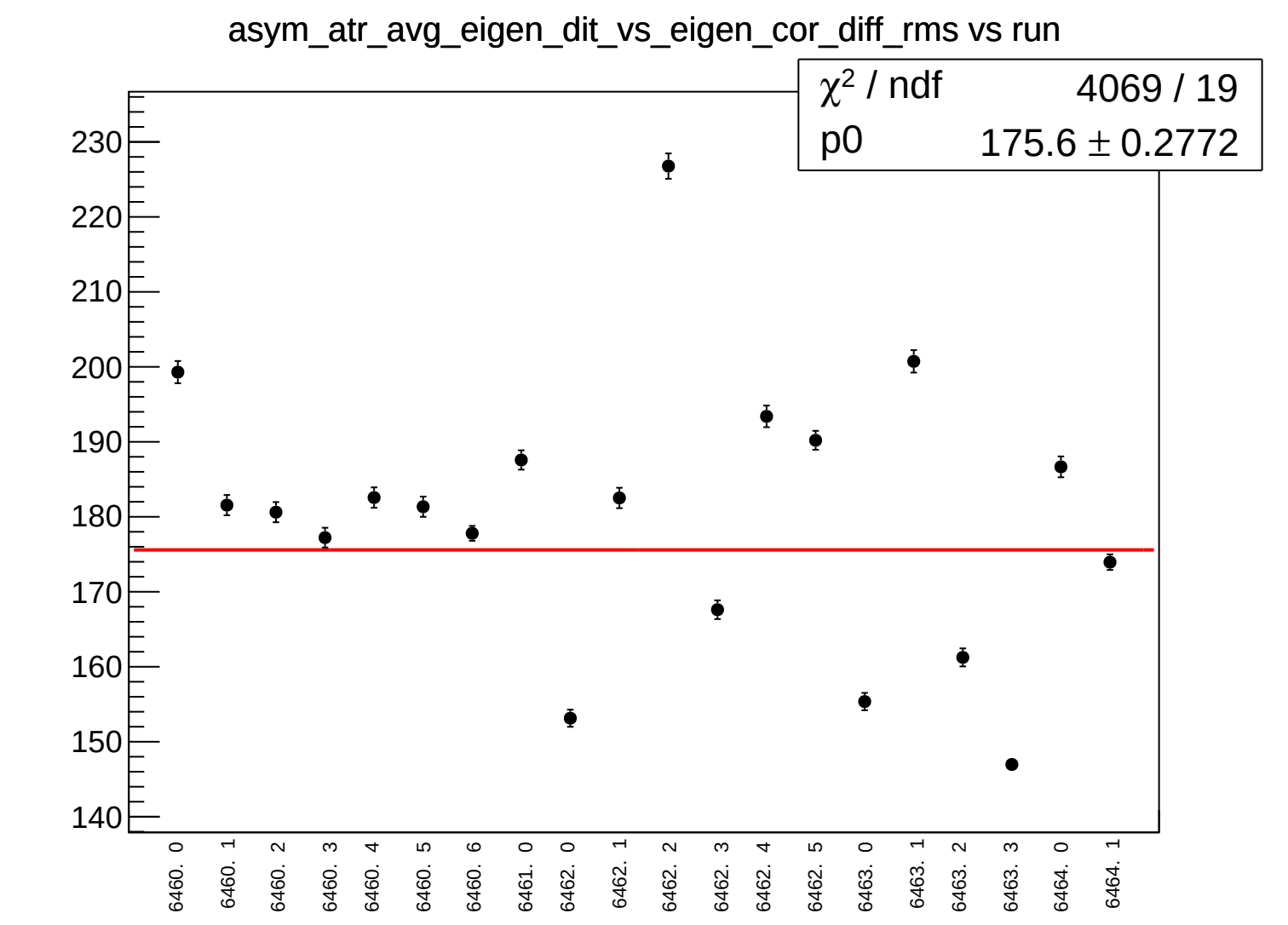

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.51 / 19
p0 3.641e−05 ± 4.833e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 47.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02771
Std Dev 0.8514
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

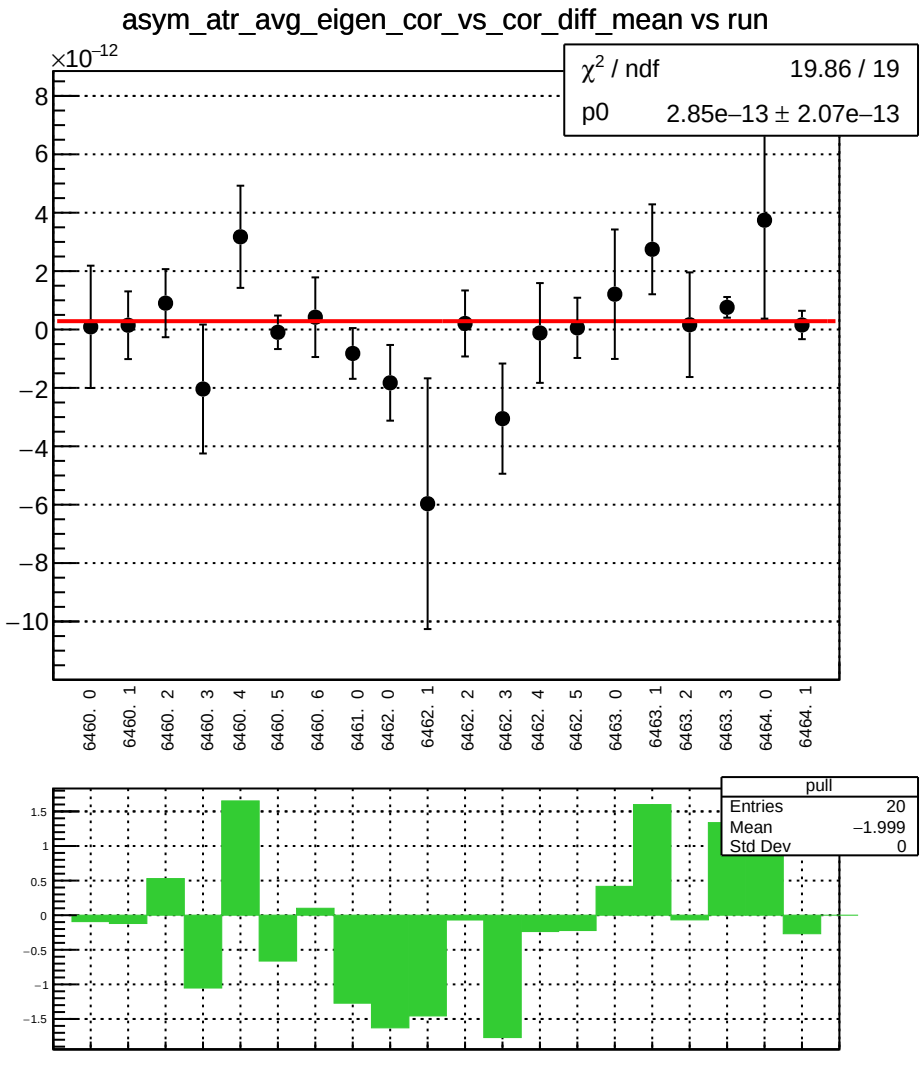

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 847.1 / 19
p0 0.02173 ± 3.417e–05
0.023
0.0225
0.022
0.0215
0.021
0.0205
0.02
0.0195
0.019
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

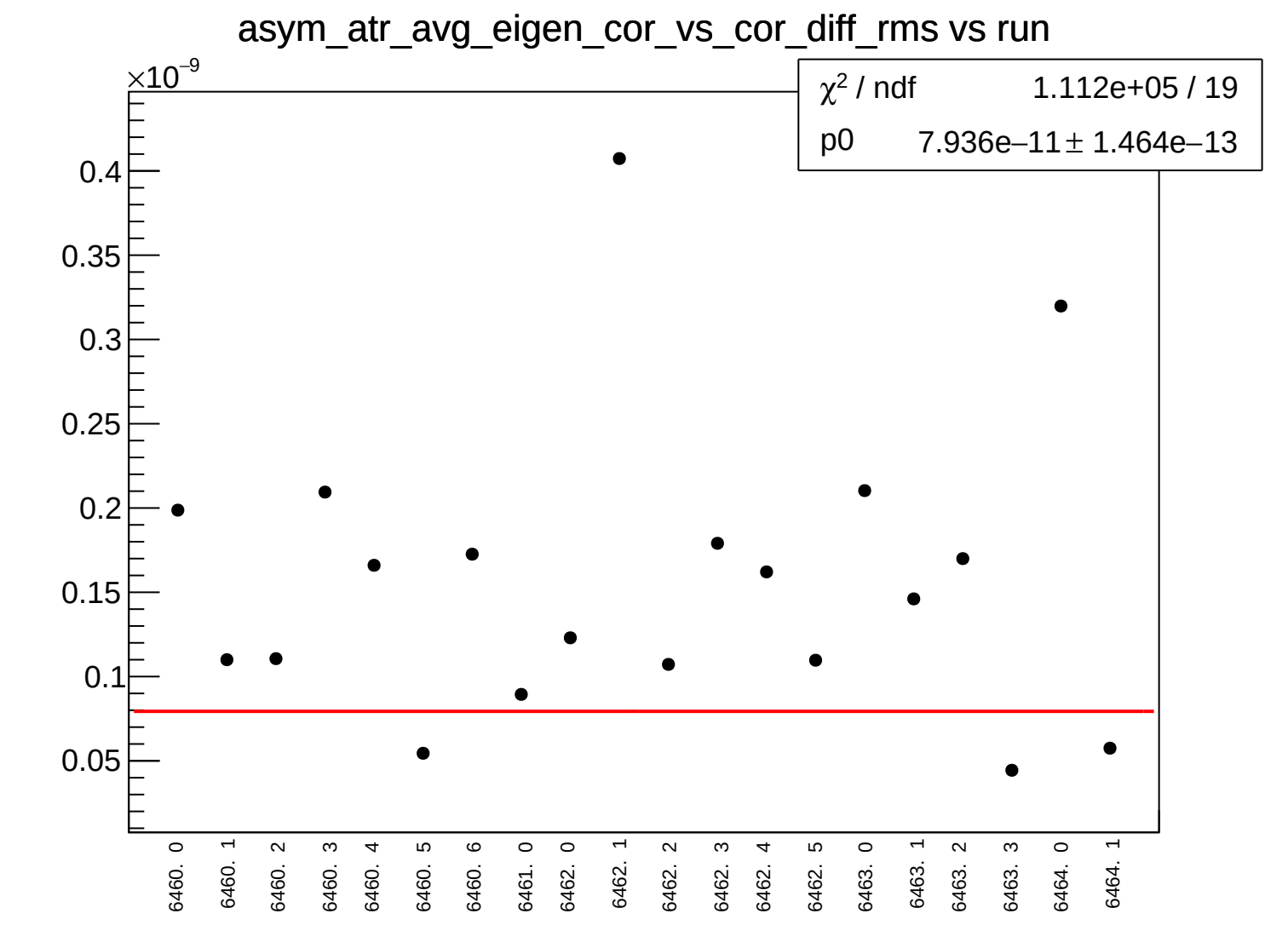

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.28 / 19
p0 −0.09664 ± 0.3921
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.441
Std Dev 0
pull1D
Entries 20
Mean −0.06671
Std Dev 1.053

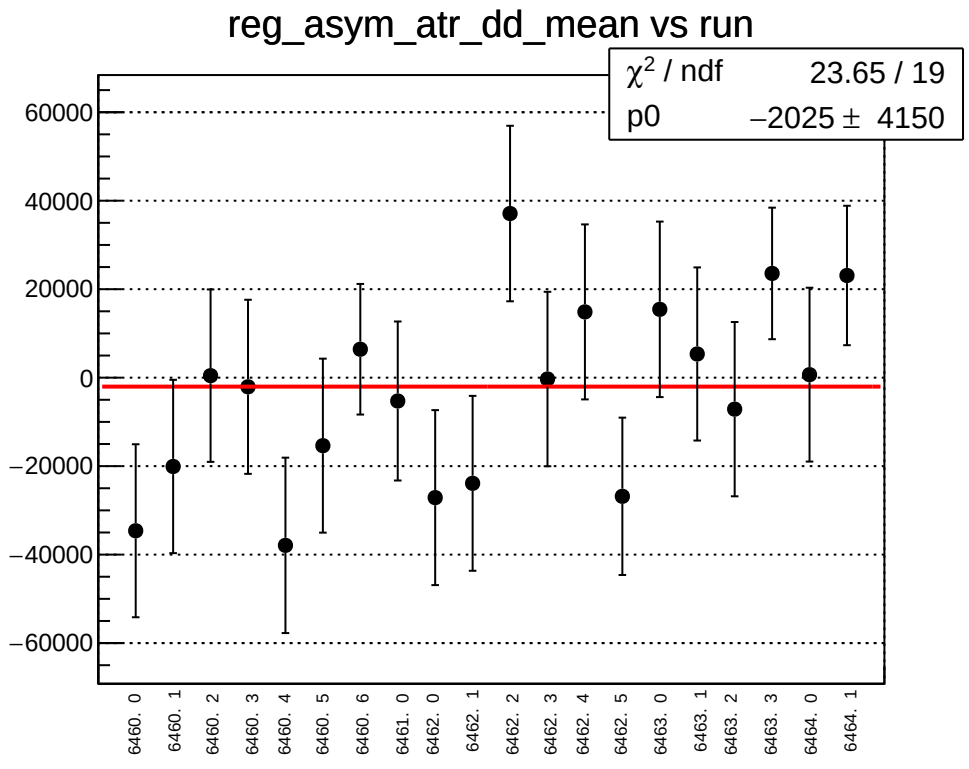

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4069 / 19
p0 175.6 ± 0.2772
230
220
210
200
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

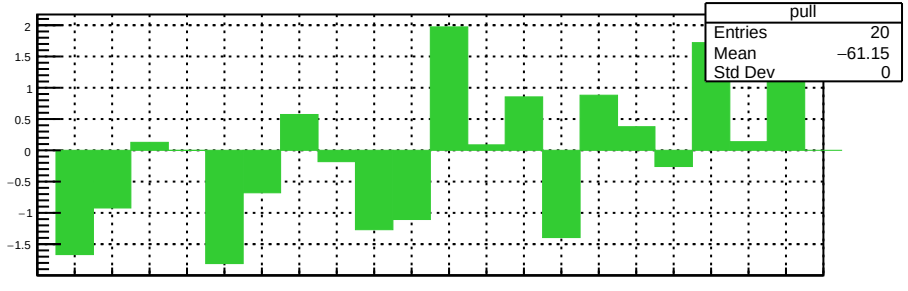

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.28 / 19
p0 −0.09664 ± 0.3921
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.441
Std Dev 0
pull1D
Entries 20
Mean −0.06671
Std Dev 1.053

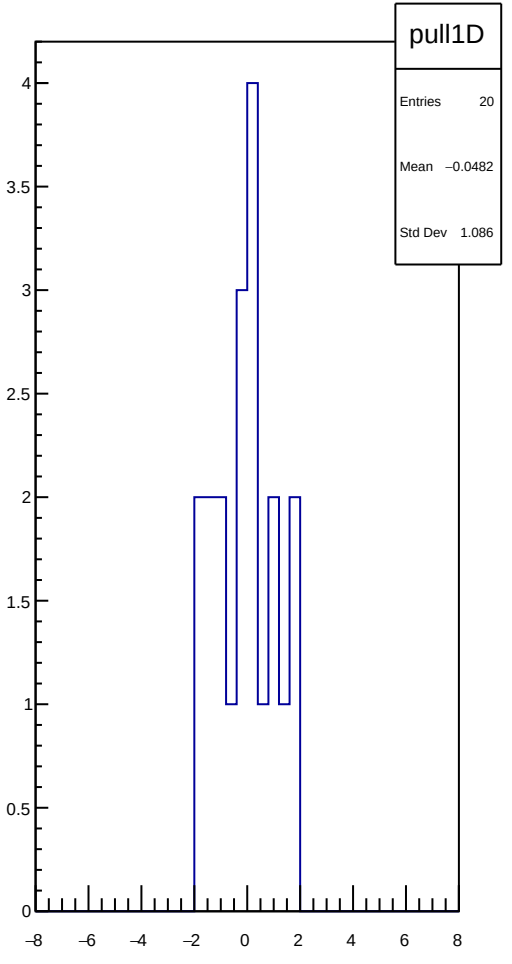

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4069 / 19
p0 175.6 ± 0.2772
230
220
210
200
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

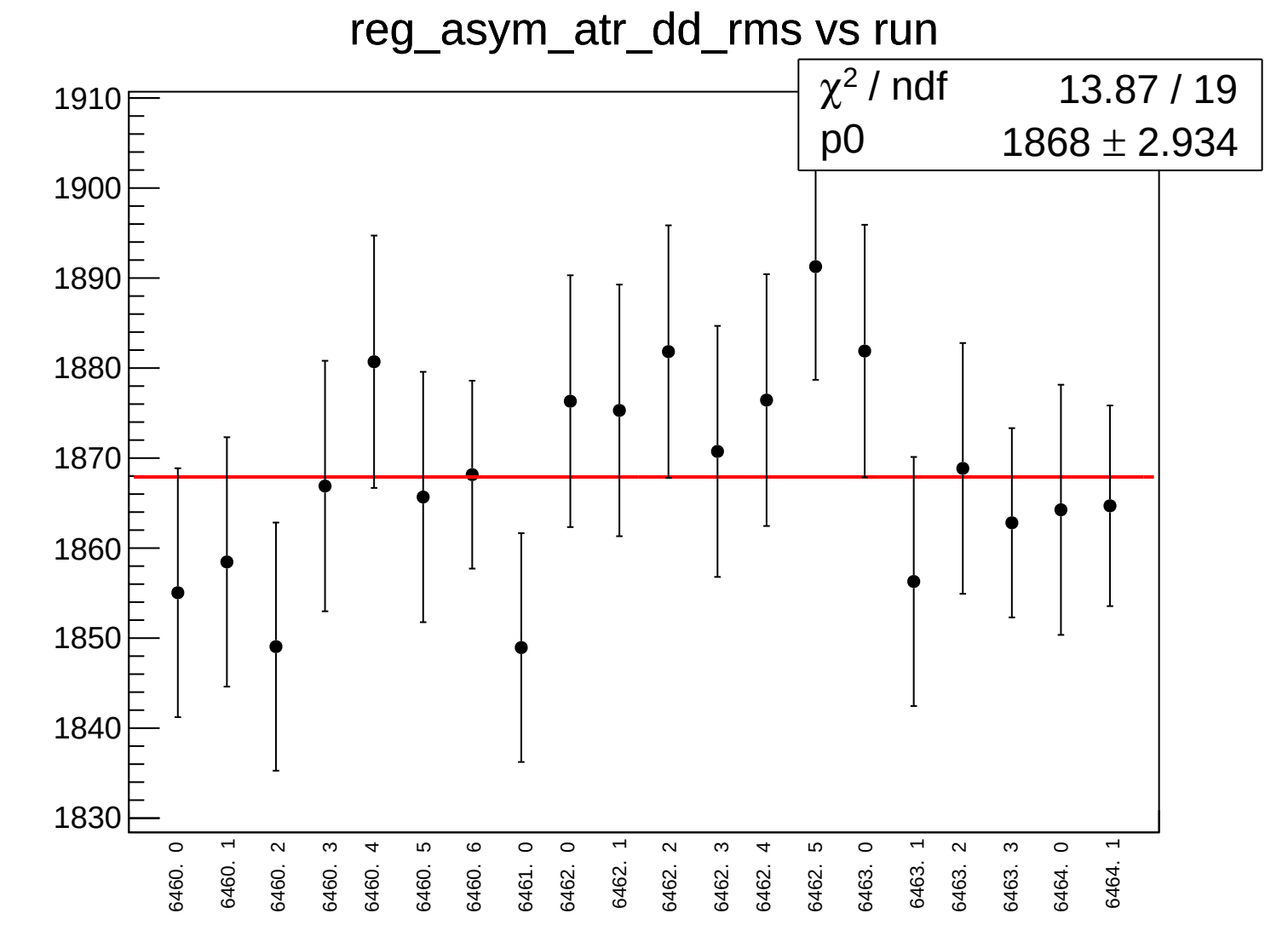

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.86 / 19
p0 2.85e−13 ± 2.07e−13
8
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.999
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.1127
Std Dev 0.9901
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

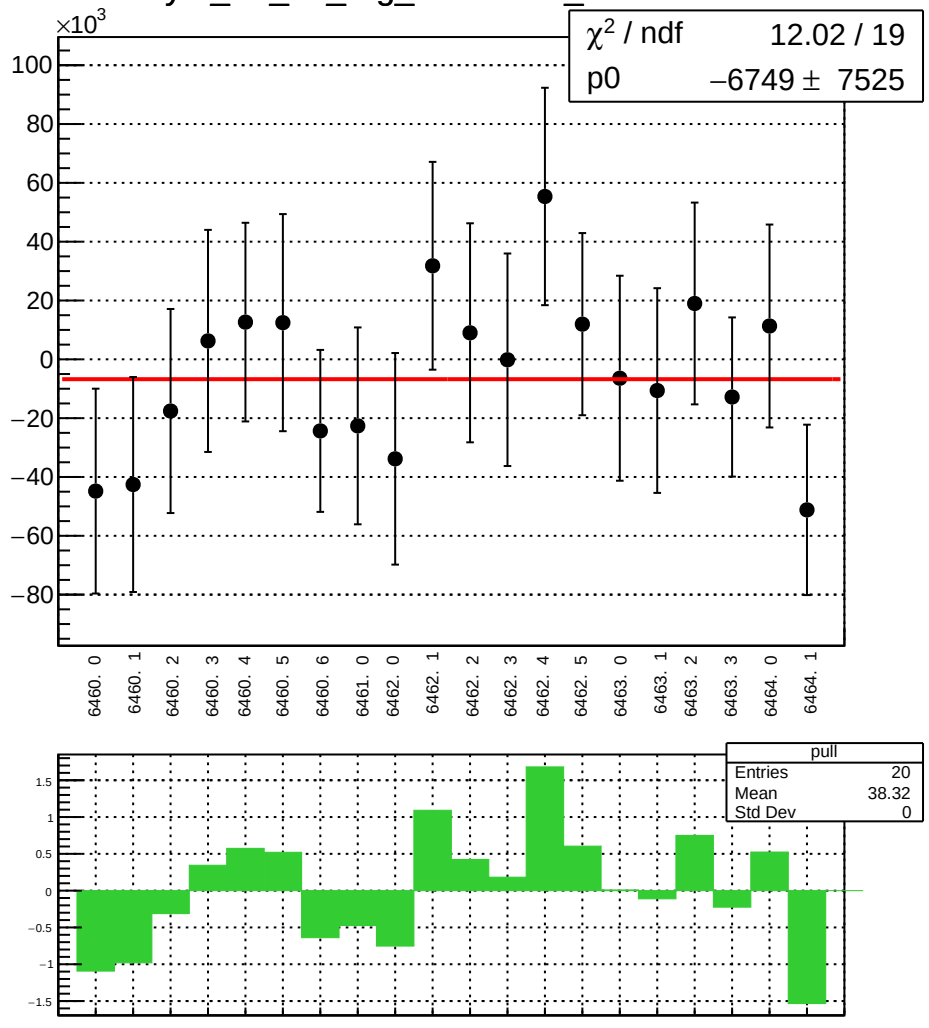

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.112e+05 / 19
p0 7.936e−11 ± 1.464e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

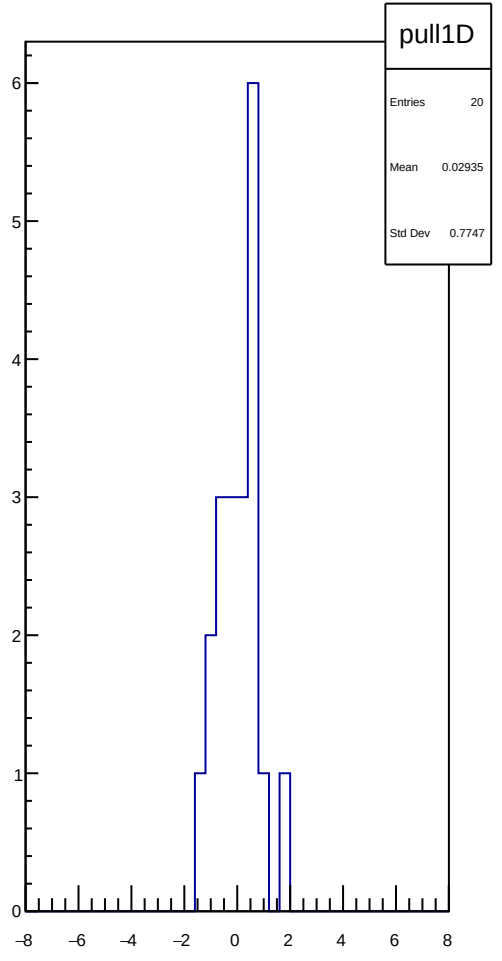

reg_asym_atr_dd_mean vs run
χ² / ndf 23.65 / 19
p0 −2025 ± 4150
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

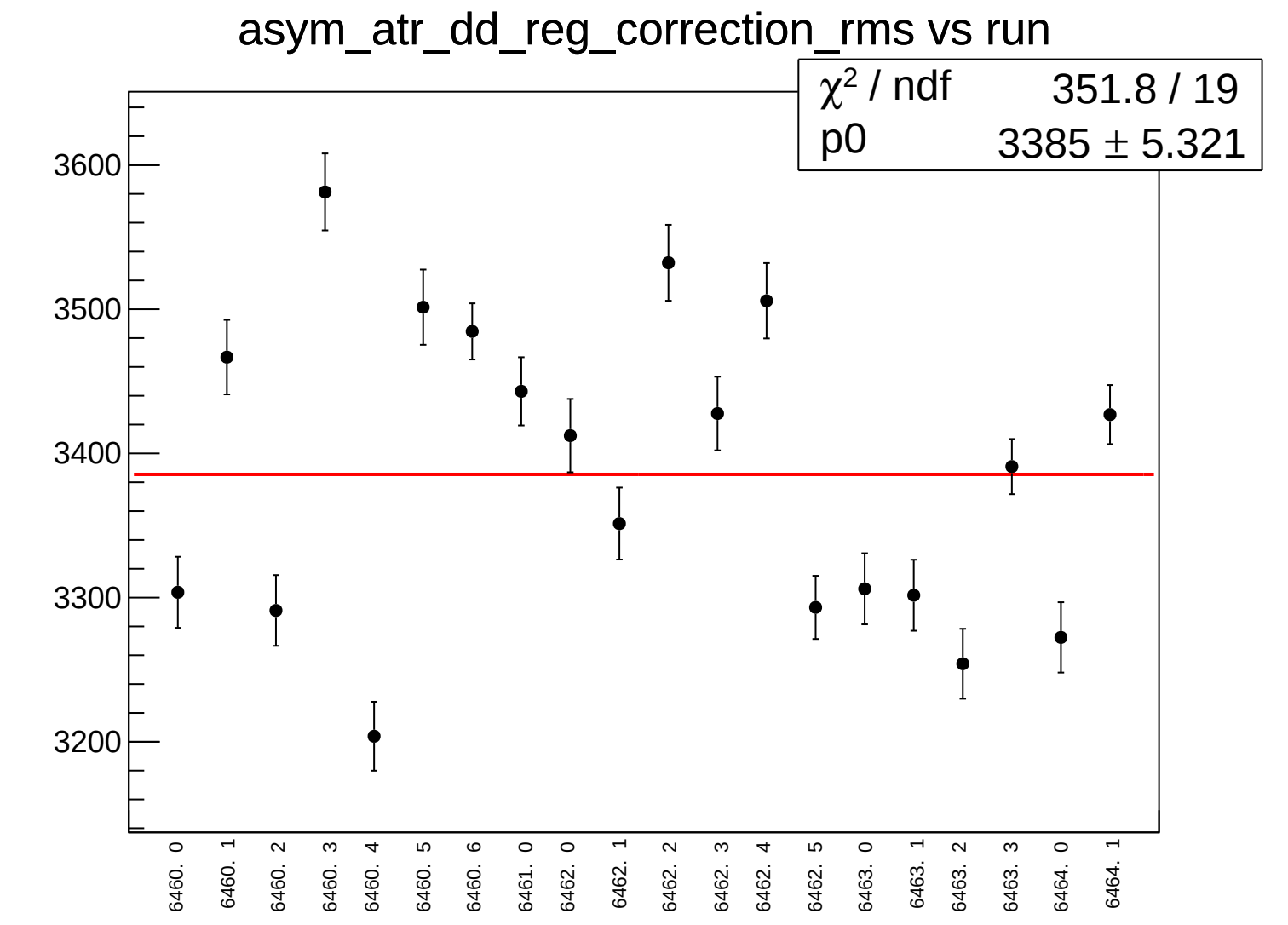

pull
Entries 20
Mean −61.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

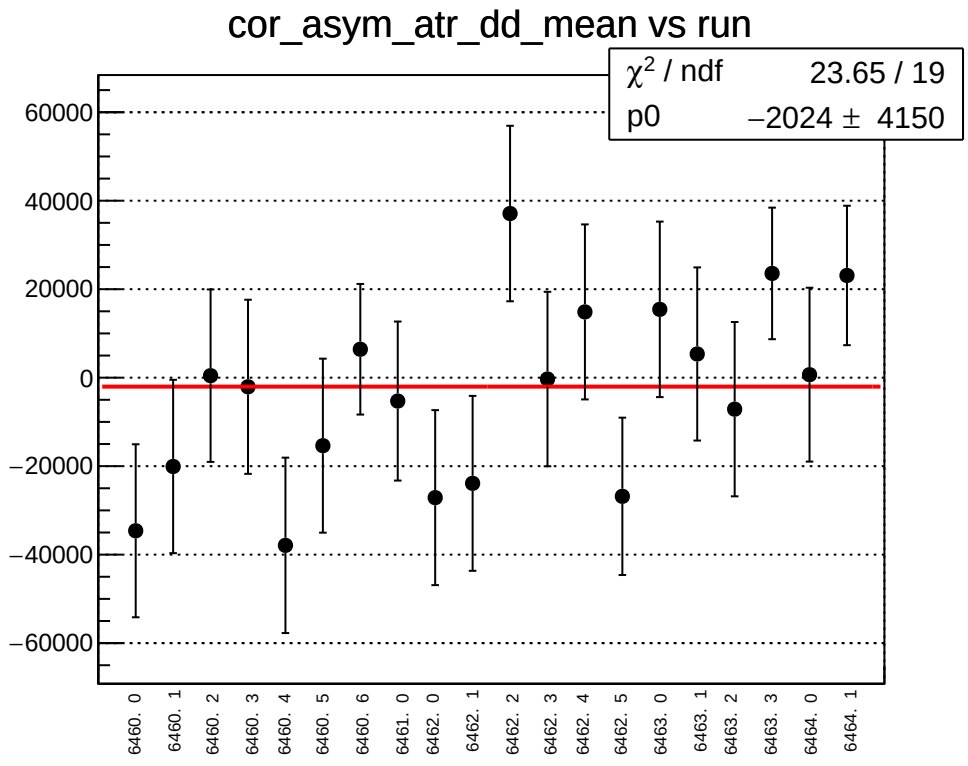

pull1D
Entries 20
Mean −0.0482
Std Dev 1.086
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

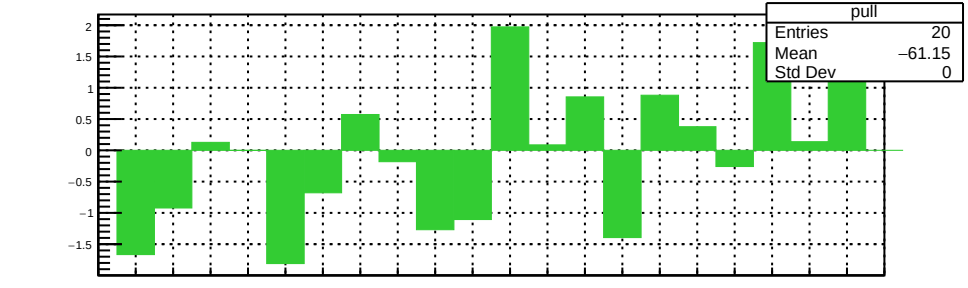

reg_asym_atr_dd_rms vs run
χ² / ndf 13.87 / 19
p0 1868 ± 2.934
1910
1900
1890
1880
1870
1860
1850
1840
1830
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

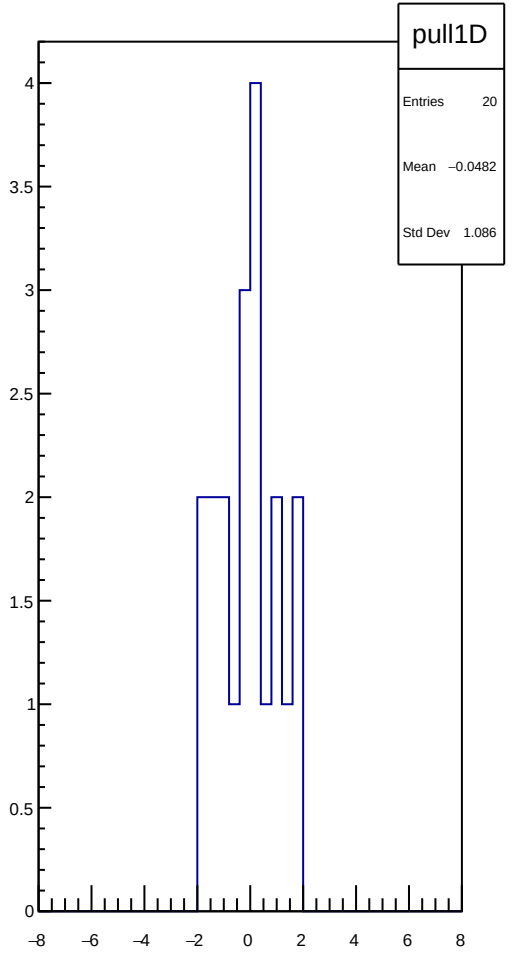

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 12.02 / 19
p0 −6749 ± 7525
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

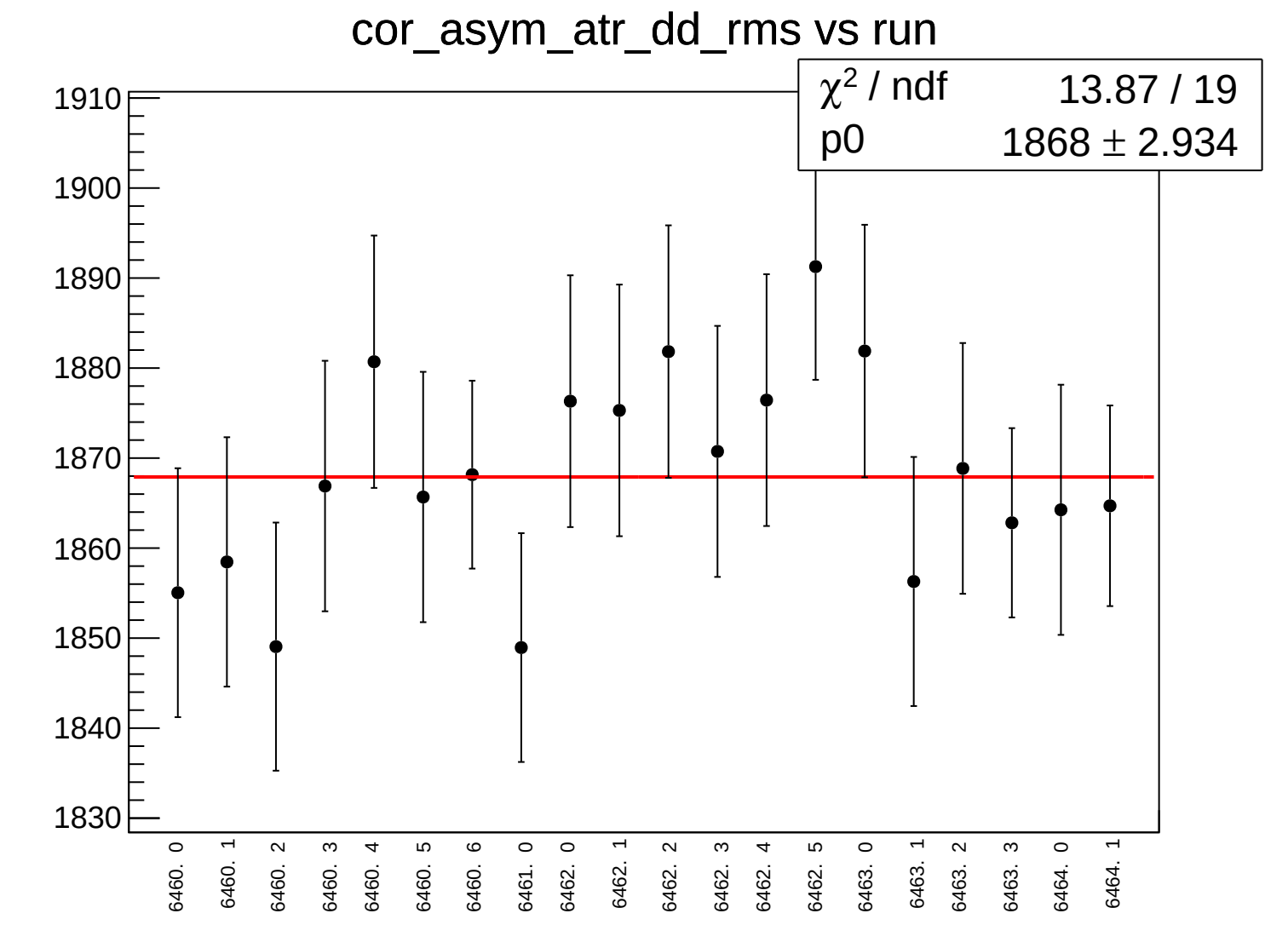

pull1D
Entries 20
Mean 0.02935
Std Dev 0.7747
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

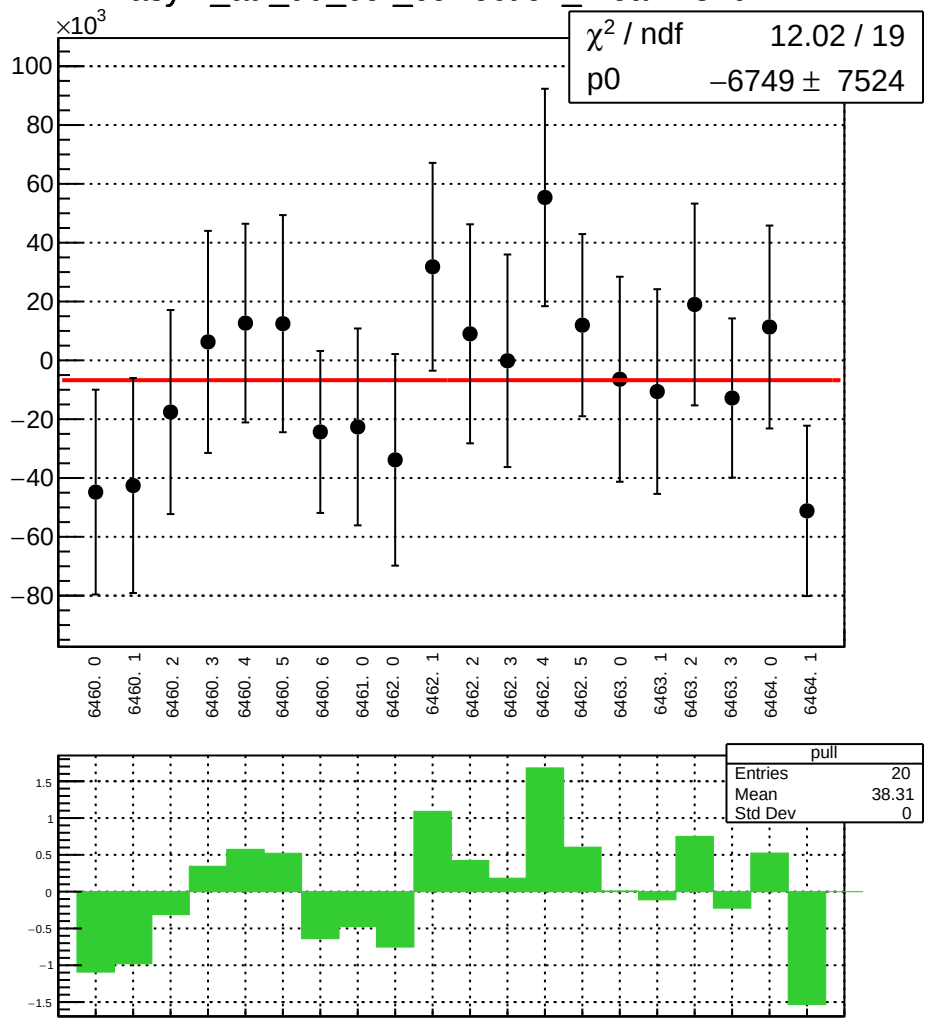

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 351.8 / 19
p0 3385 ± 5.321
3600
3500
3400
3300
3200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

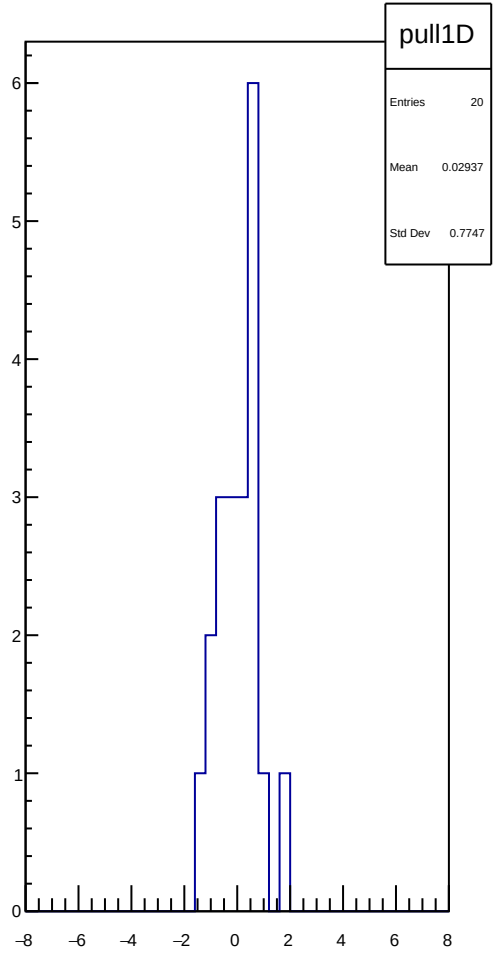

cor_asym_atr_dd_mean vs run
χ² / ndf 23.65 / 19
p0 −2024 ± 4150
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

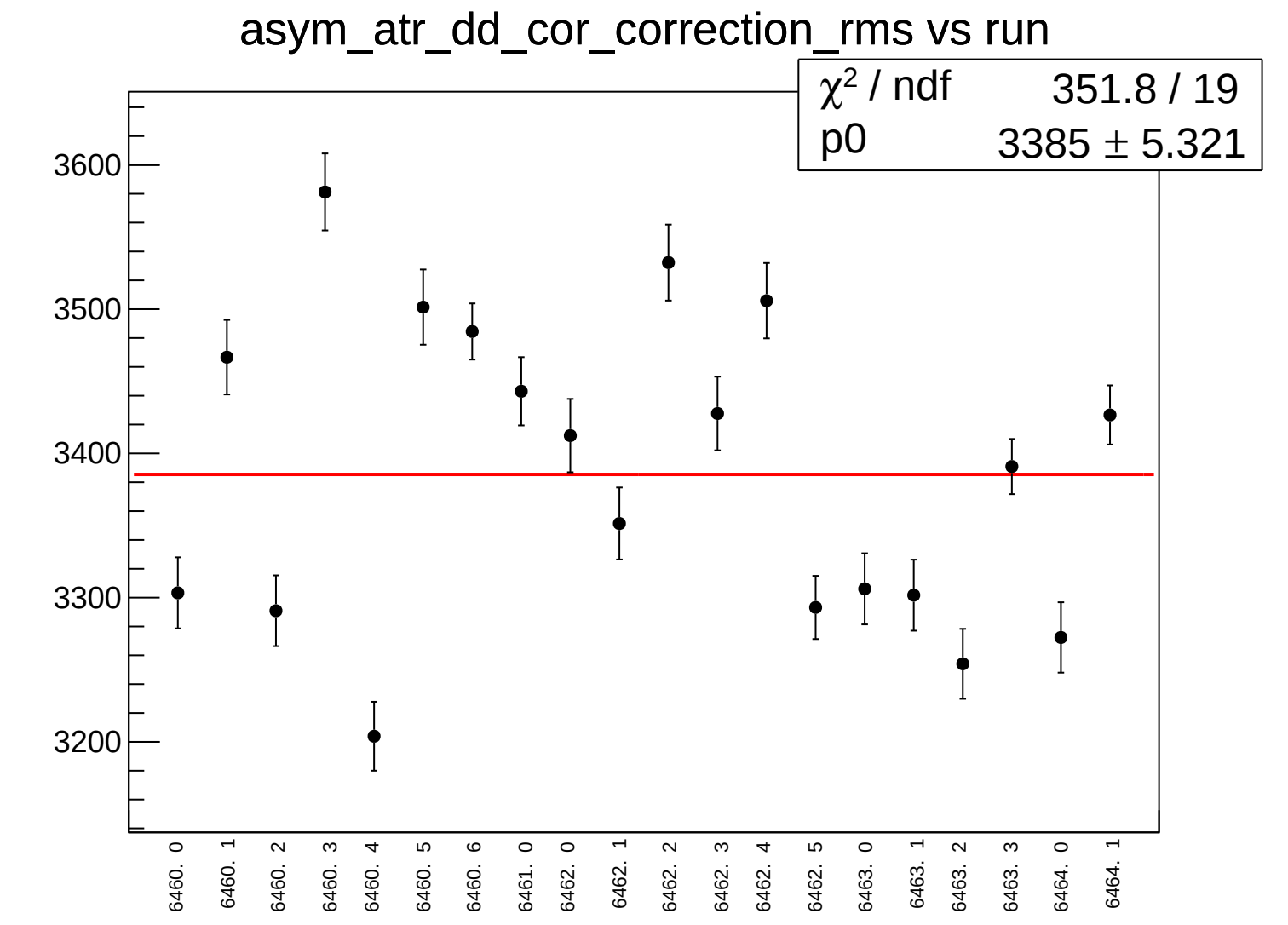

pull
Entries 20
Mean −61.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

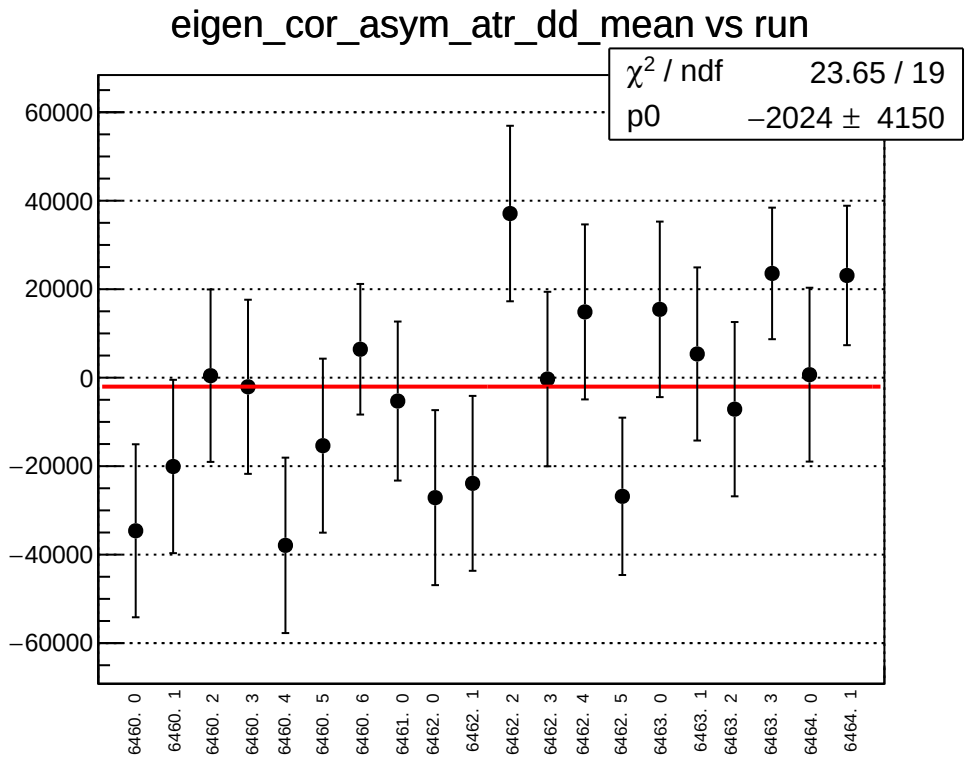

pull1D
Entries 20
Mean −0.0482
Std Dev 1.086
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

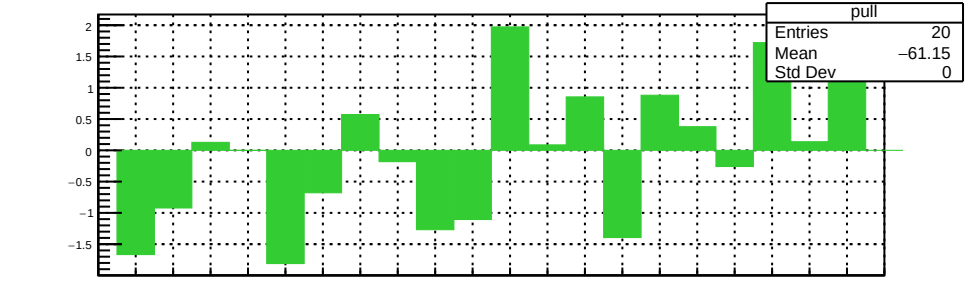

cor_asym_atr_dd_rms vs run
χ² / ndf 13.87 / 19
p0 1868 ± 2.934
1910
1900
1890
1880
1870
1860
1850
1840
1830
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

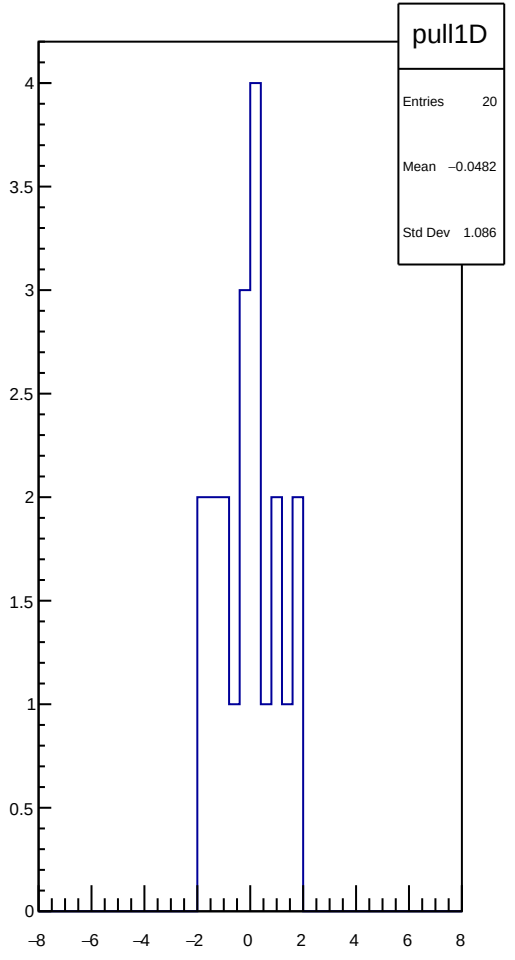

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 12.02 / 19
p0 −6749 ± 7524
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

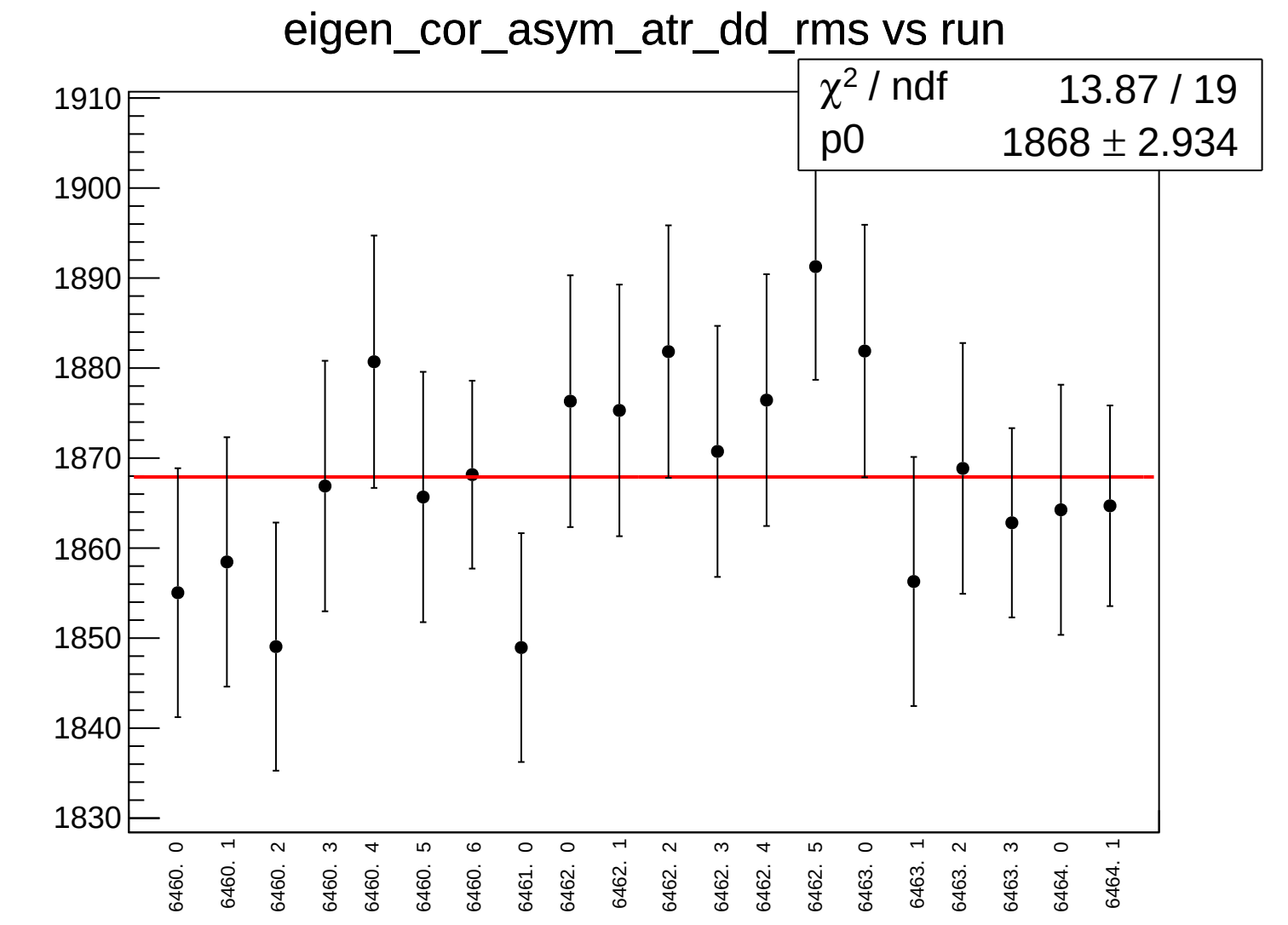

pull1D
Entries 20
Mean 0.02937
Std Dev 0.7747
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

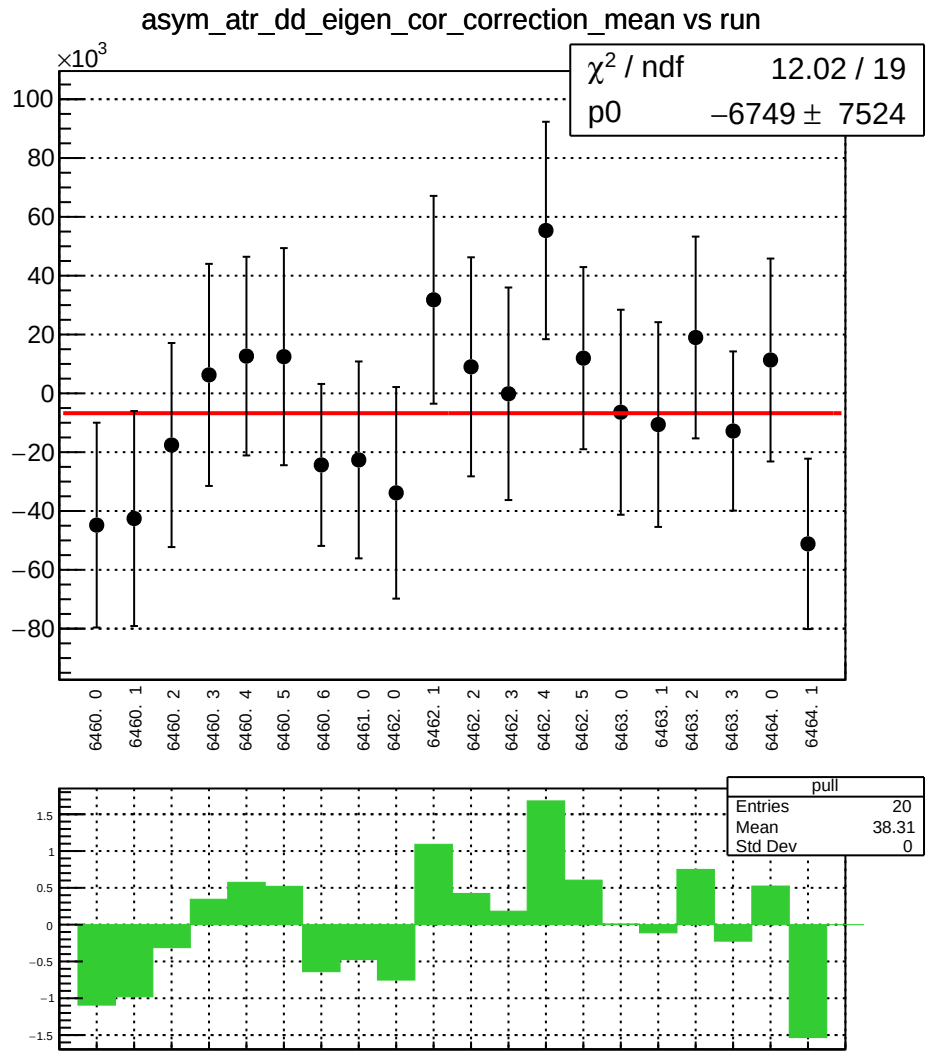

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 351.8 / 19
p0 3385 ± 5.321
3600
3500
3400
3300
3200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

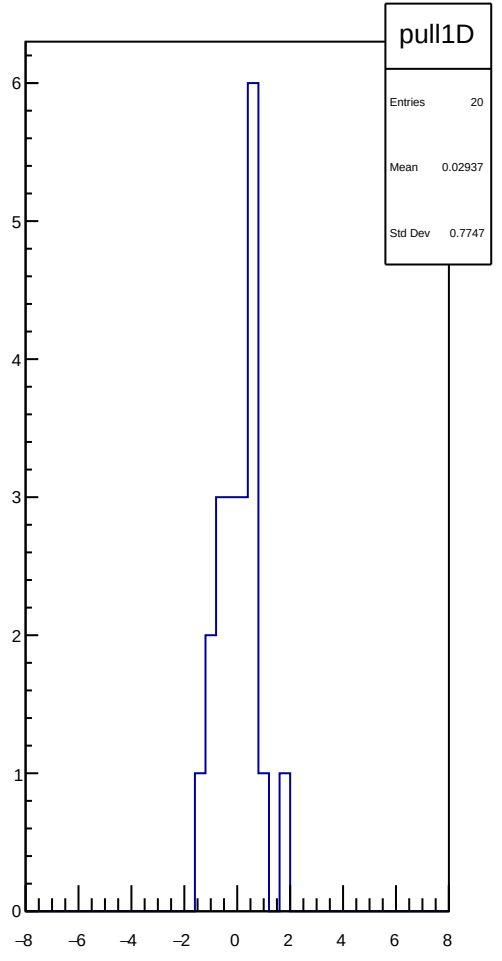

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 23.65 / 19
p0 −2024 ± 4150
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

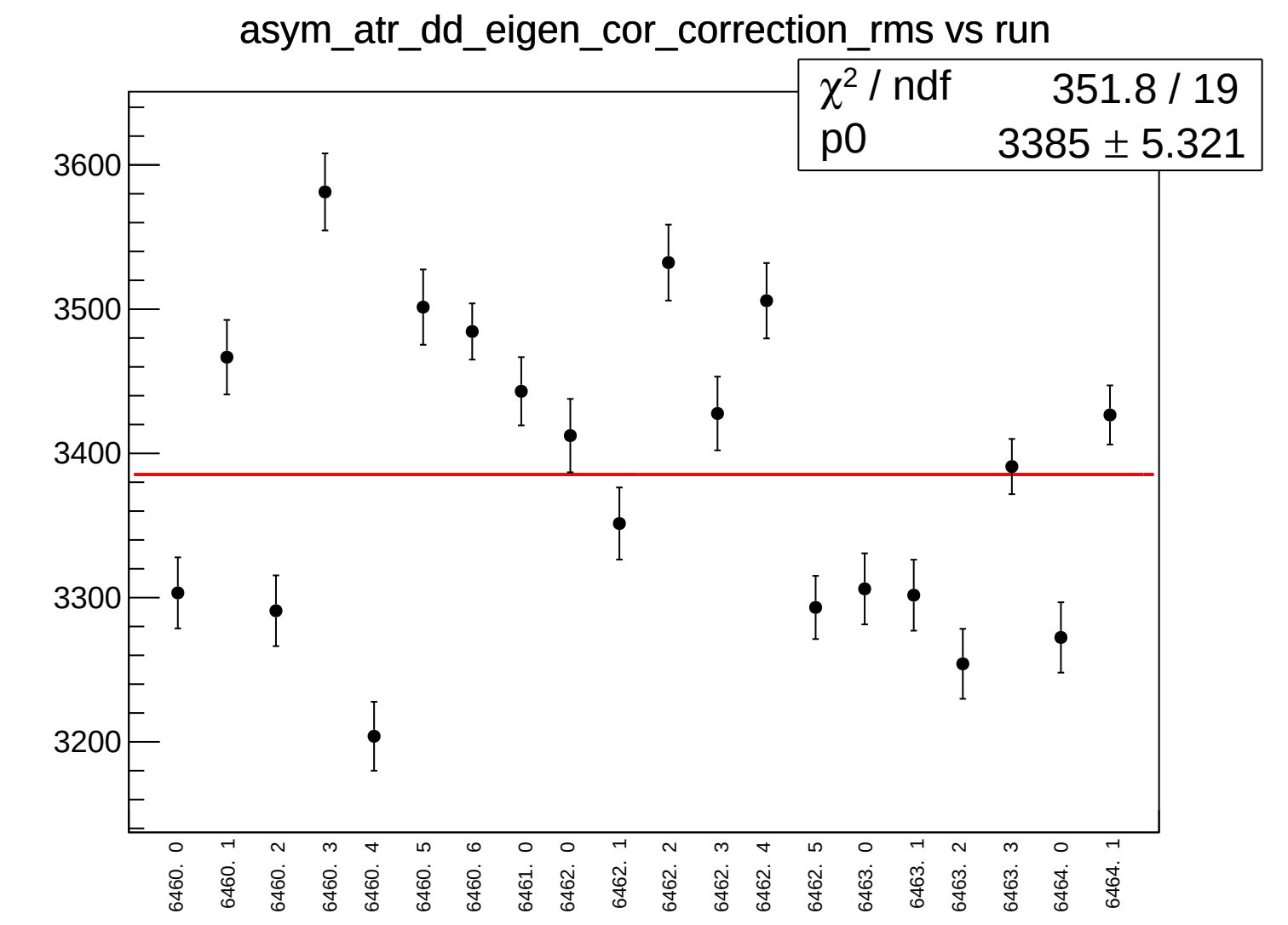

pull
Entries 20
Mean −61.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

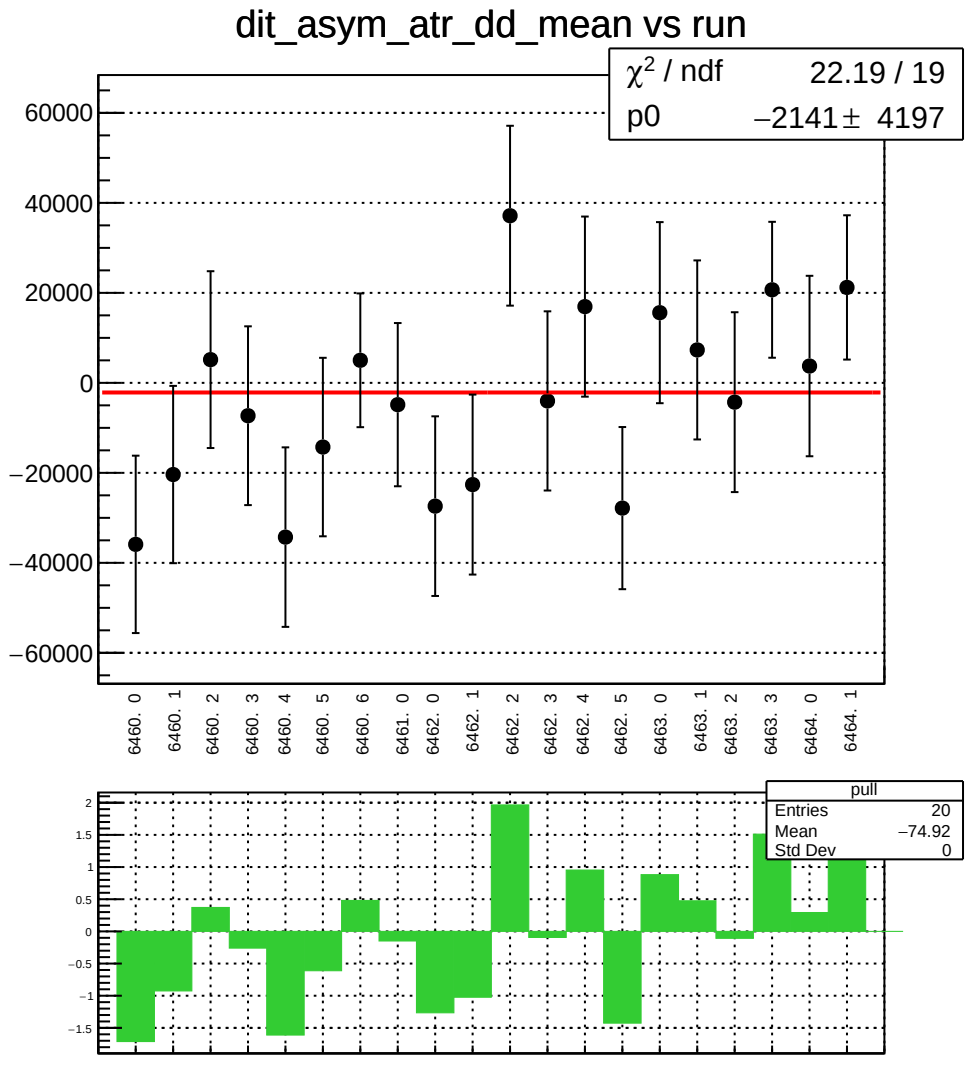

pull1D
Entries 20
Mean −0.0482
Std Dev 1.086
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

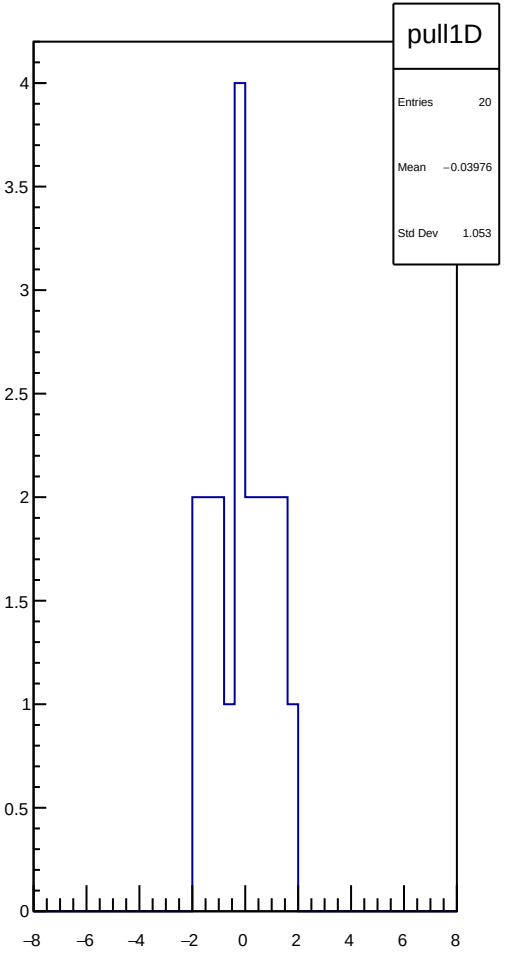

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 13.87 / 19
p0 1868 ± 2.934
1910
1900
1890
1880
1870
1860
1850
1840
1830
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

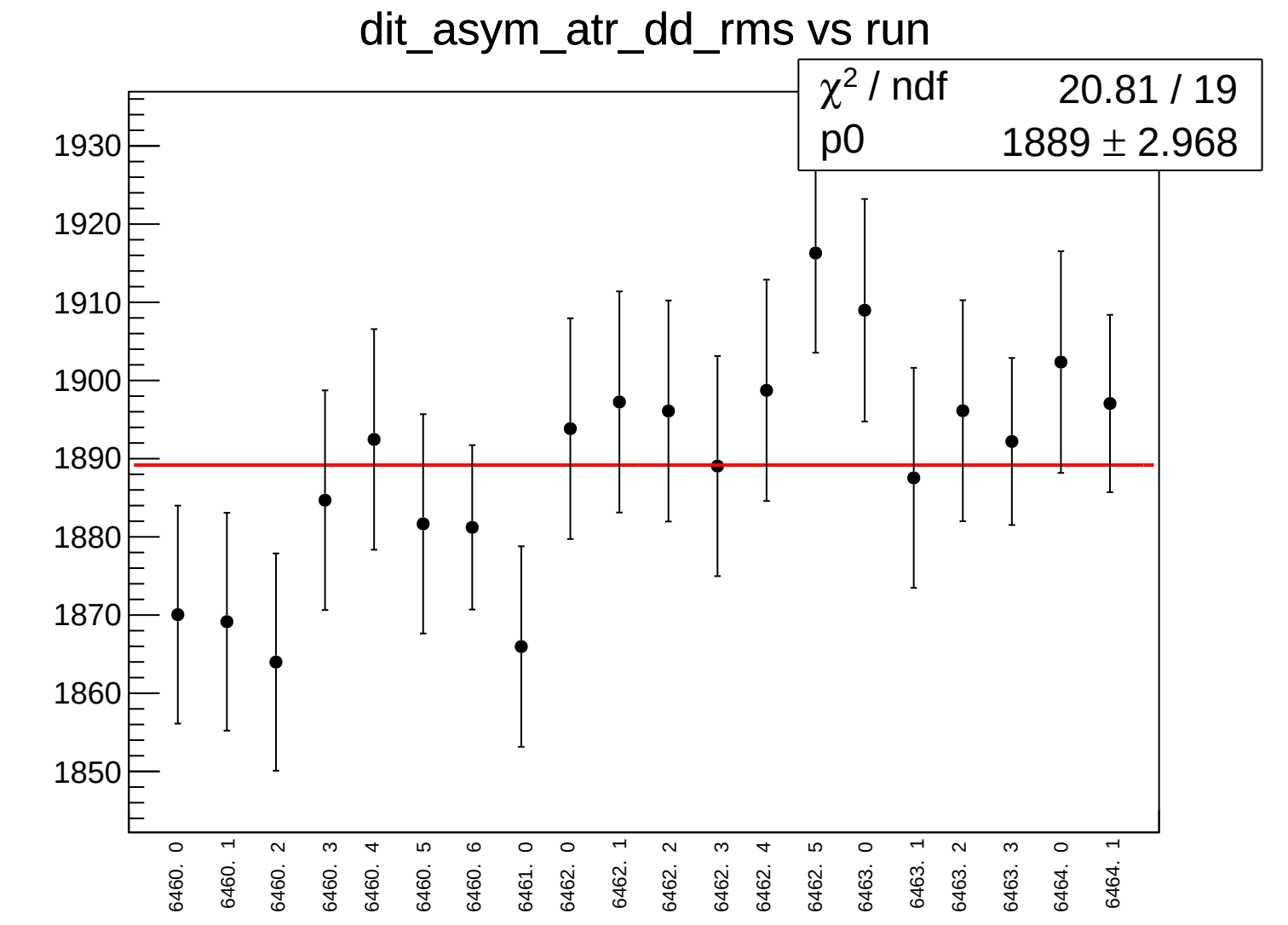

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 12.02 / 19
p0 −6749 ± 7524
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

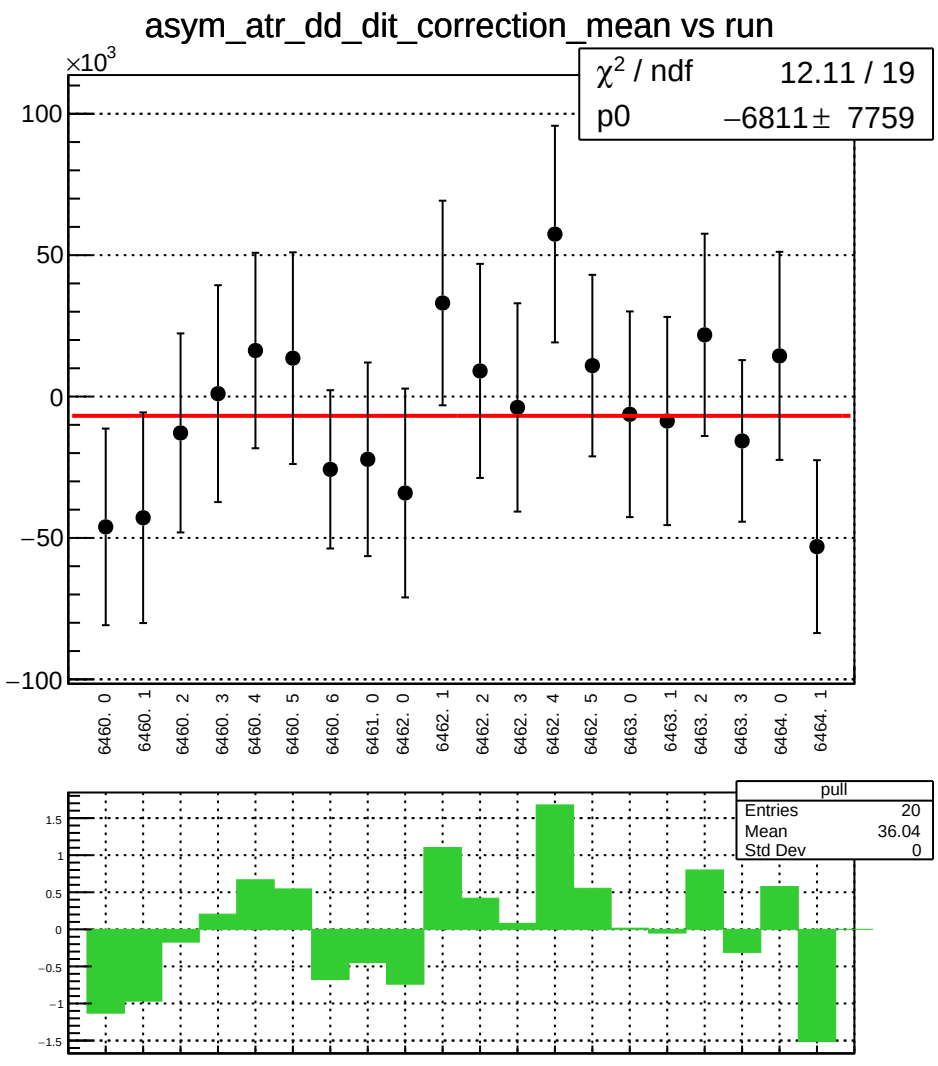

pull1D
Entries 20
Mean 0.02937
Std Dev 0.7747
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

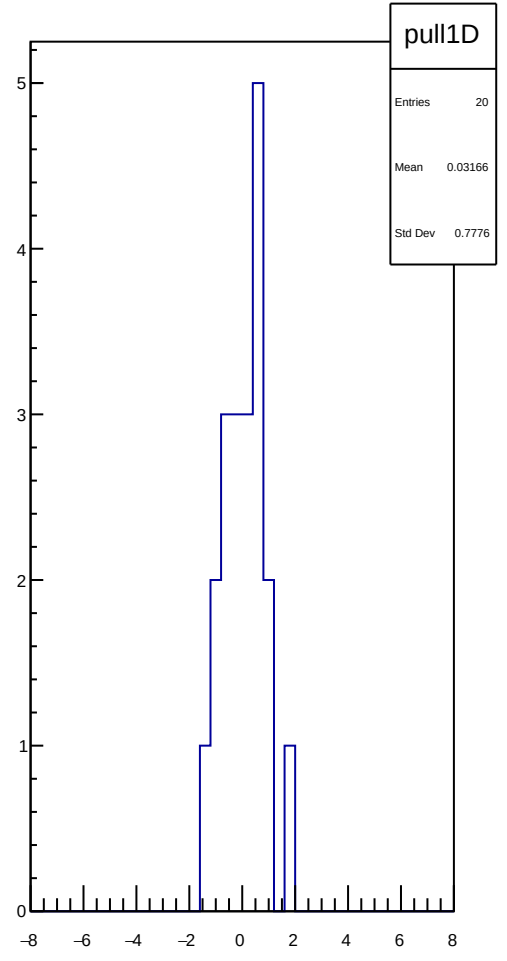

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 351.8 / 19
p0 3385 ± 5.321
3600
3500
3400
3300
3200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

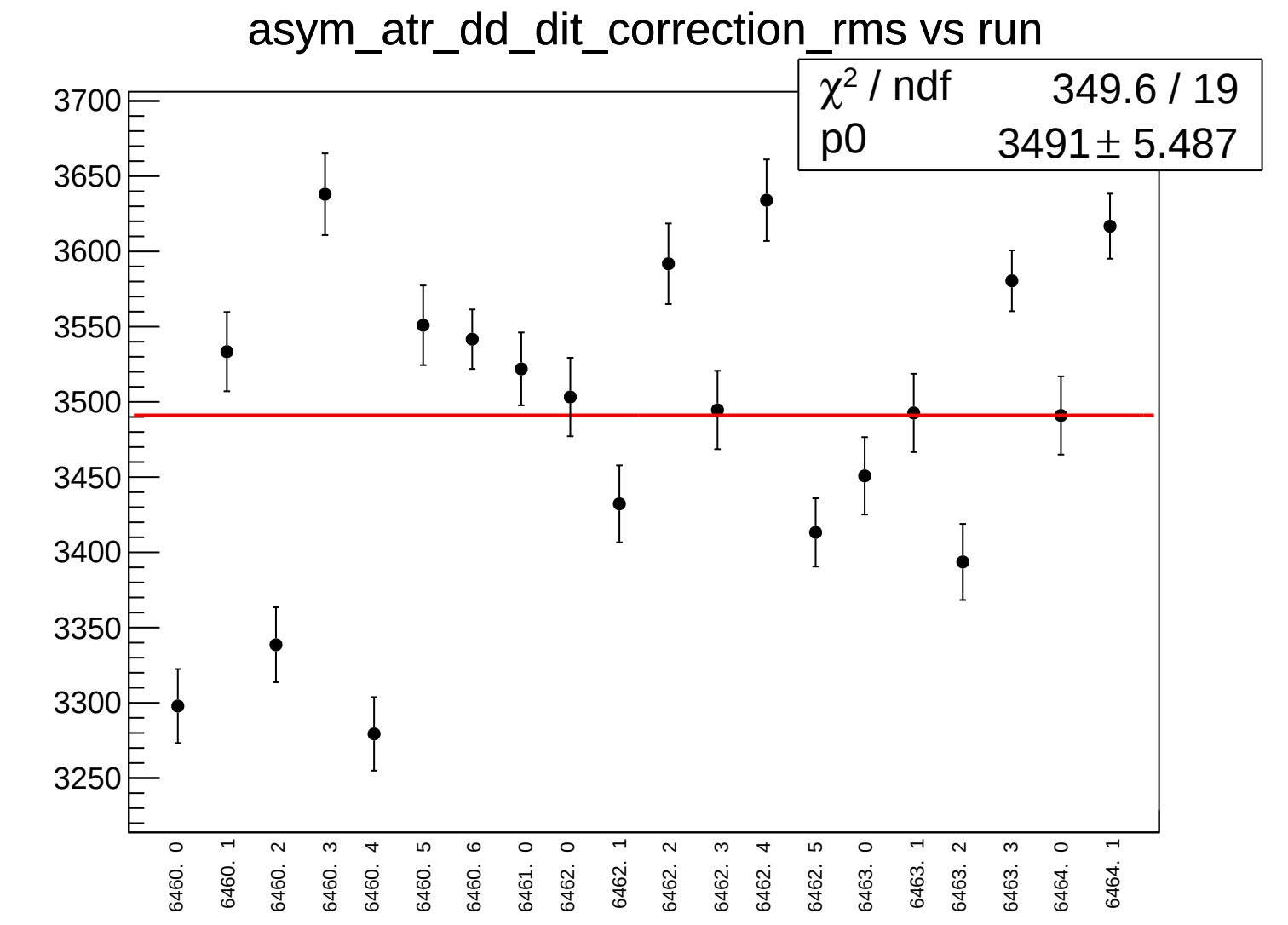

dit_asym_atr_dd_mean vs run
χ² / ndf 22.19 / 19
p0 −2141 ± 4197
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −74.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

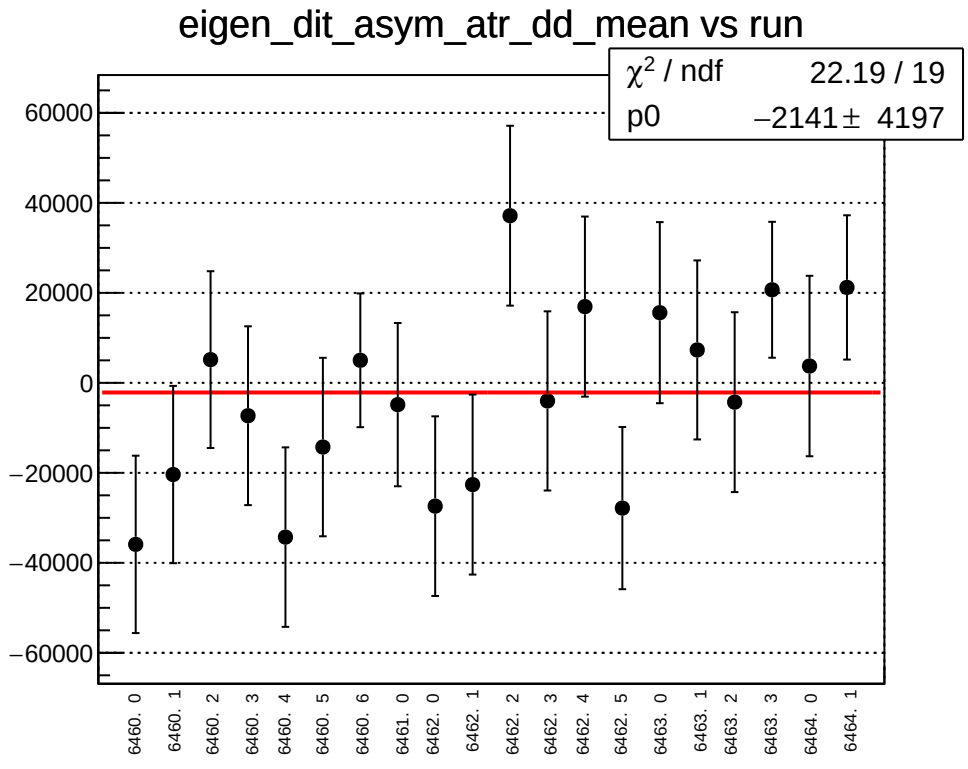

pull1D
Entries 20
Mean −0.03976
Std Dev 1.053
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

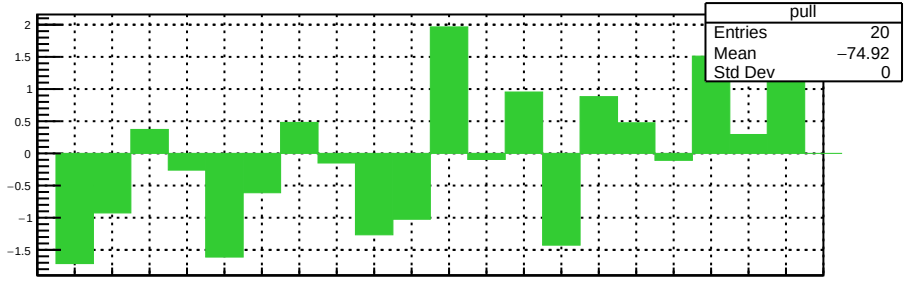

dit_asym_atr_dd_rms vs run
χ² / ndf 20.81 / 19
p0 1889 ± 2.968
1930
1920
1910
1900
1890
1880
1870
1860
1850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

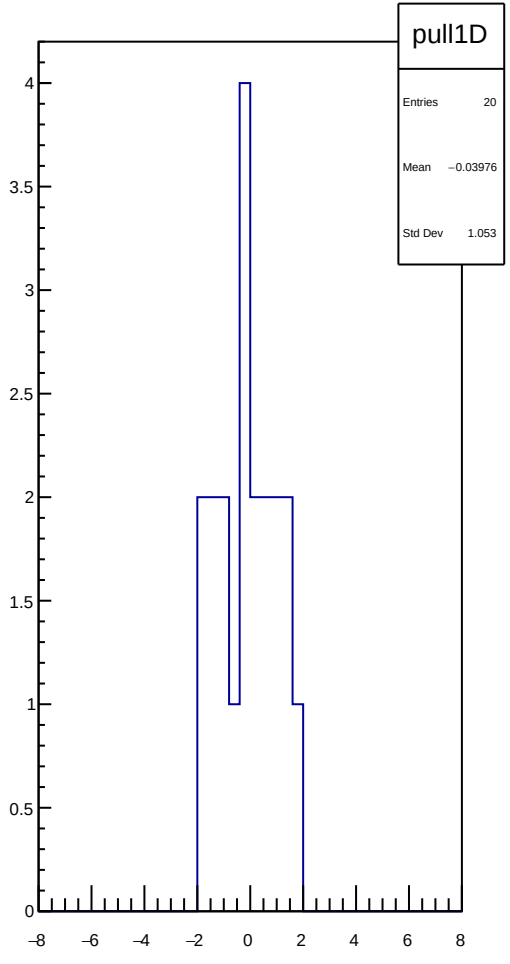

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 12.11 / 19
p0 −6811 ± 7759
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

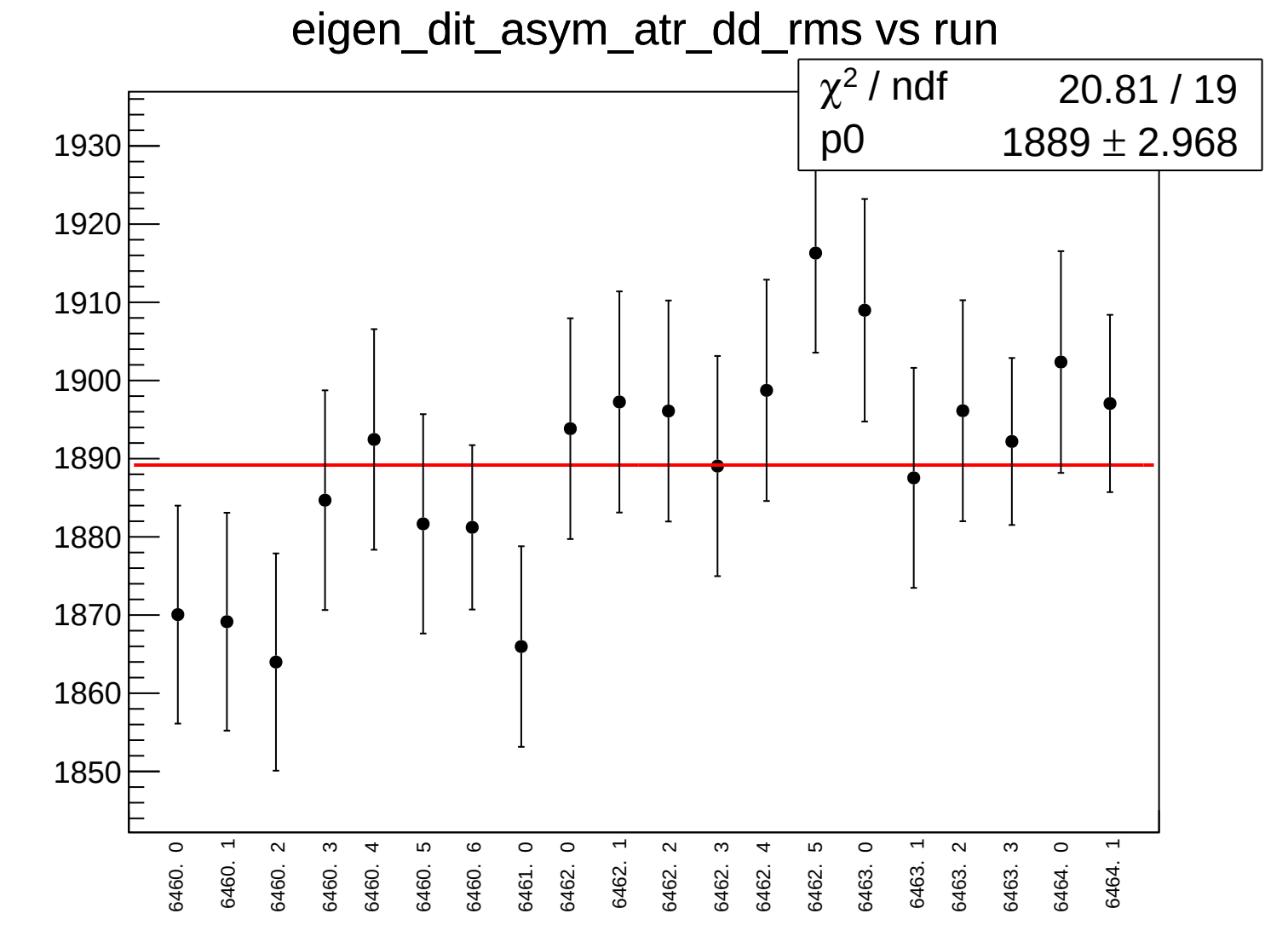

pull1D
Entries 20
Mean 0.03166
Std Dev 0.7776
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

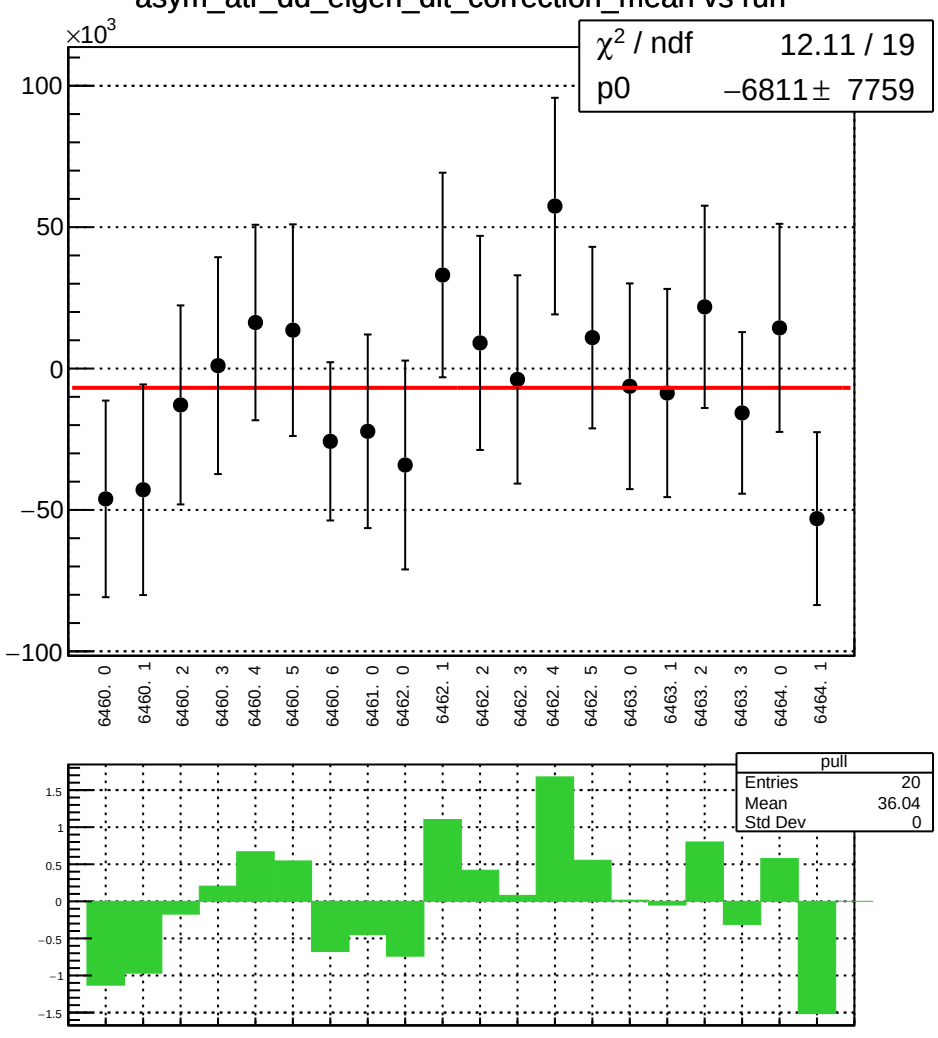

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 349.6 / 19
p0 3491 ± 5.487
3700
3650
3600
3550
3500
3450
3400
3350
3300
3250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

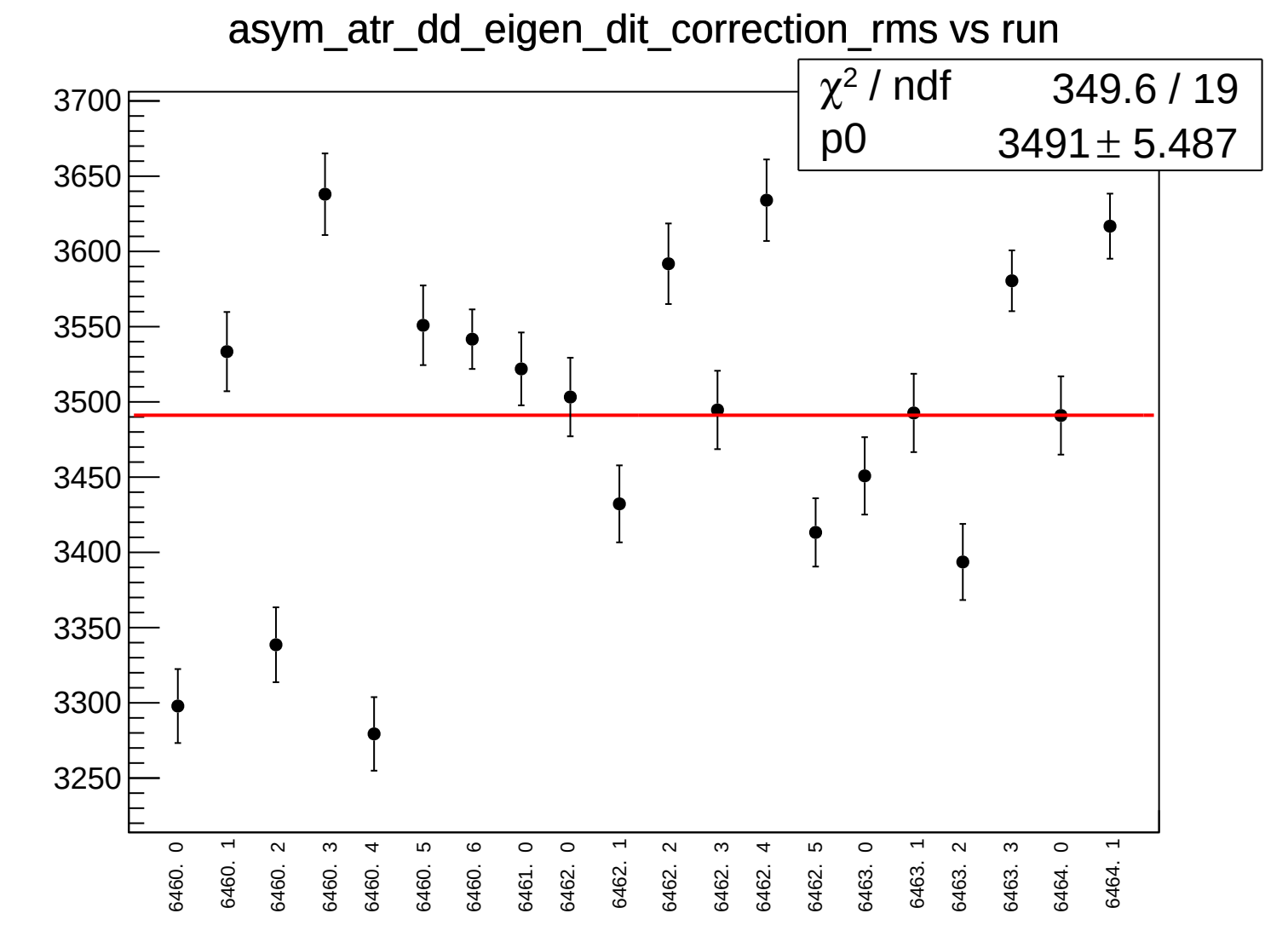

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 22.19 / 19
p0 −2141 ± 4197
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

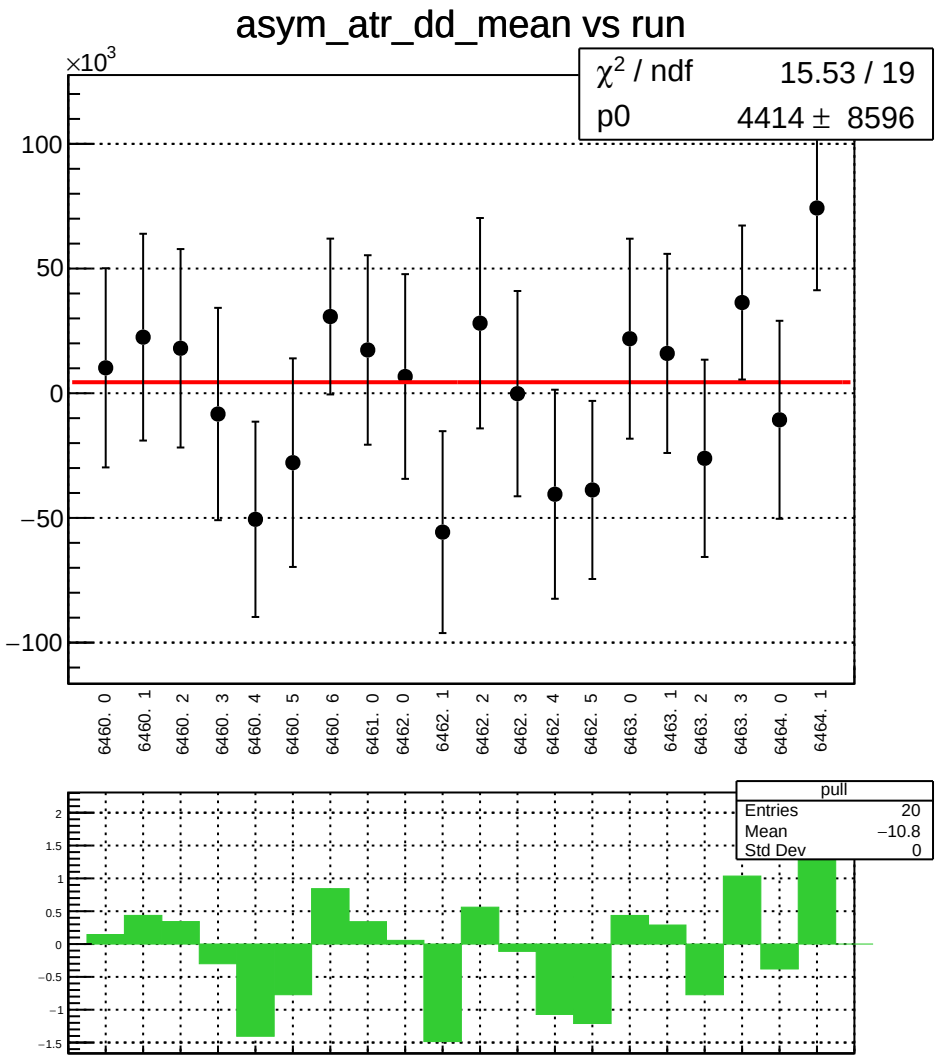

pull
Entries 20
Mean −74.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

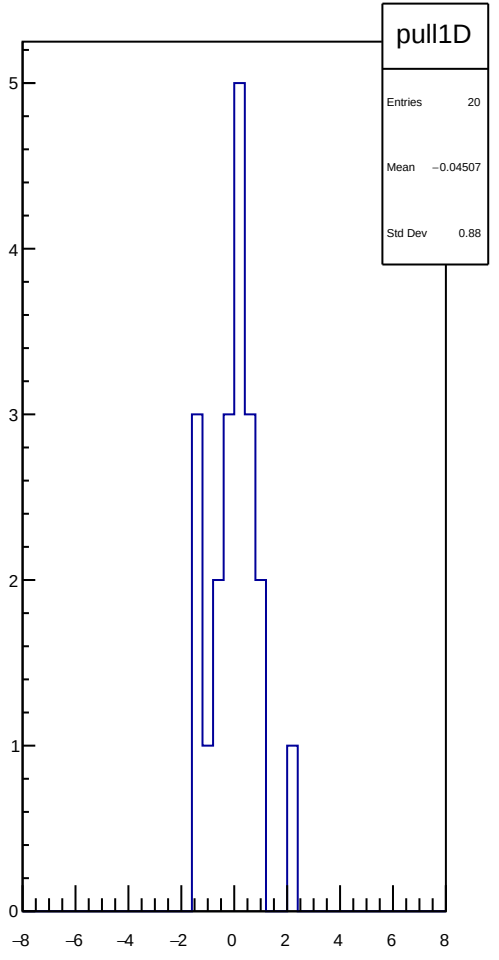

pull1D
Entries 20
Mean −0.03976
Std Dev 1.053
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

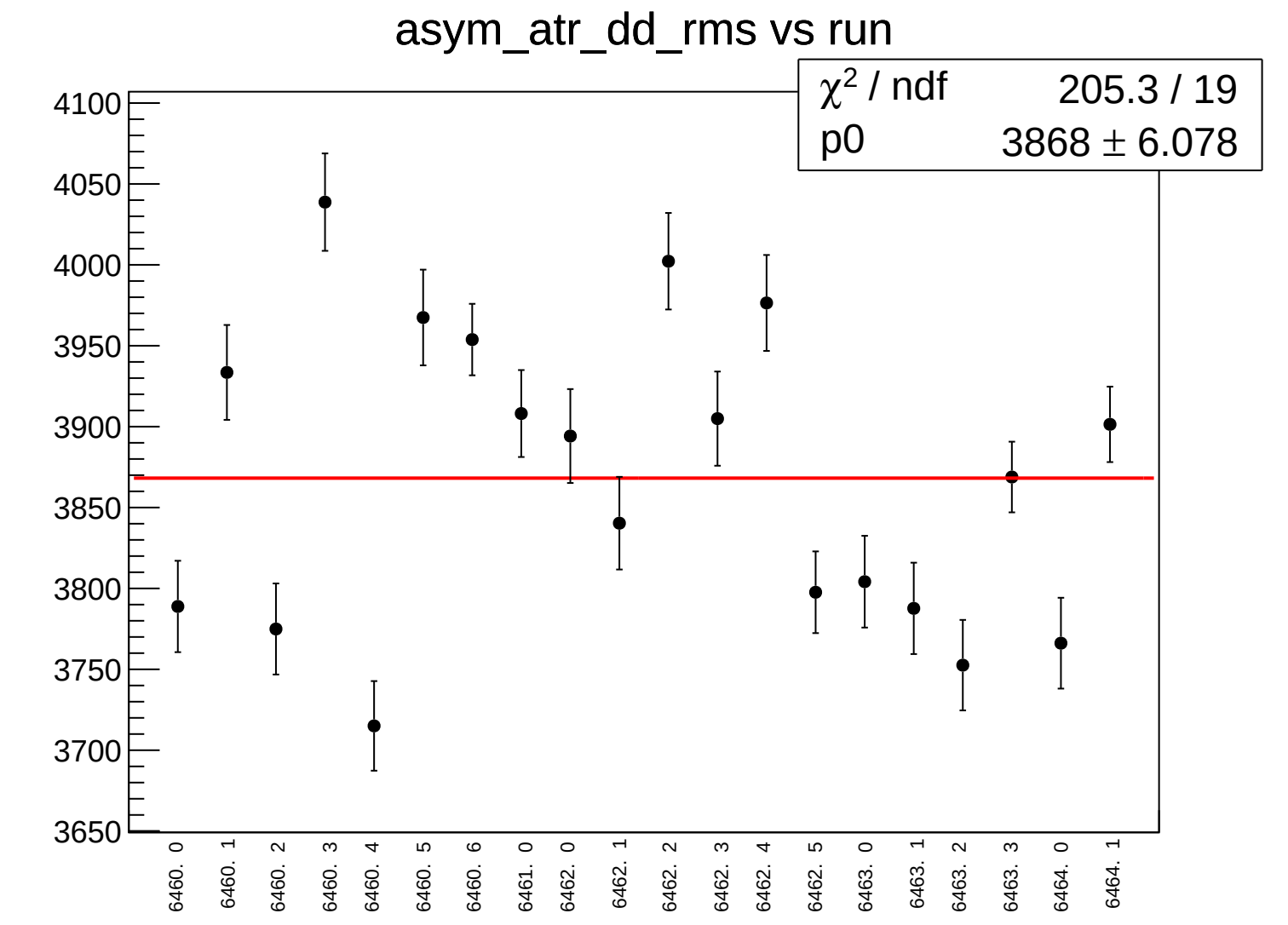

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 20.81 / 19
p0 1889 ± 2.968
1930
1920
1910
1900
1890
1880
1870
1860
1850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

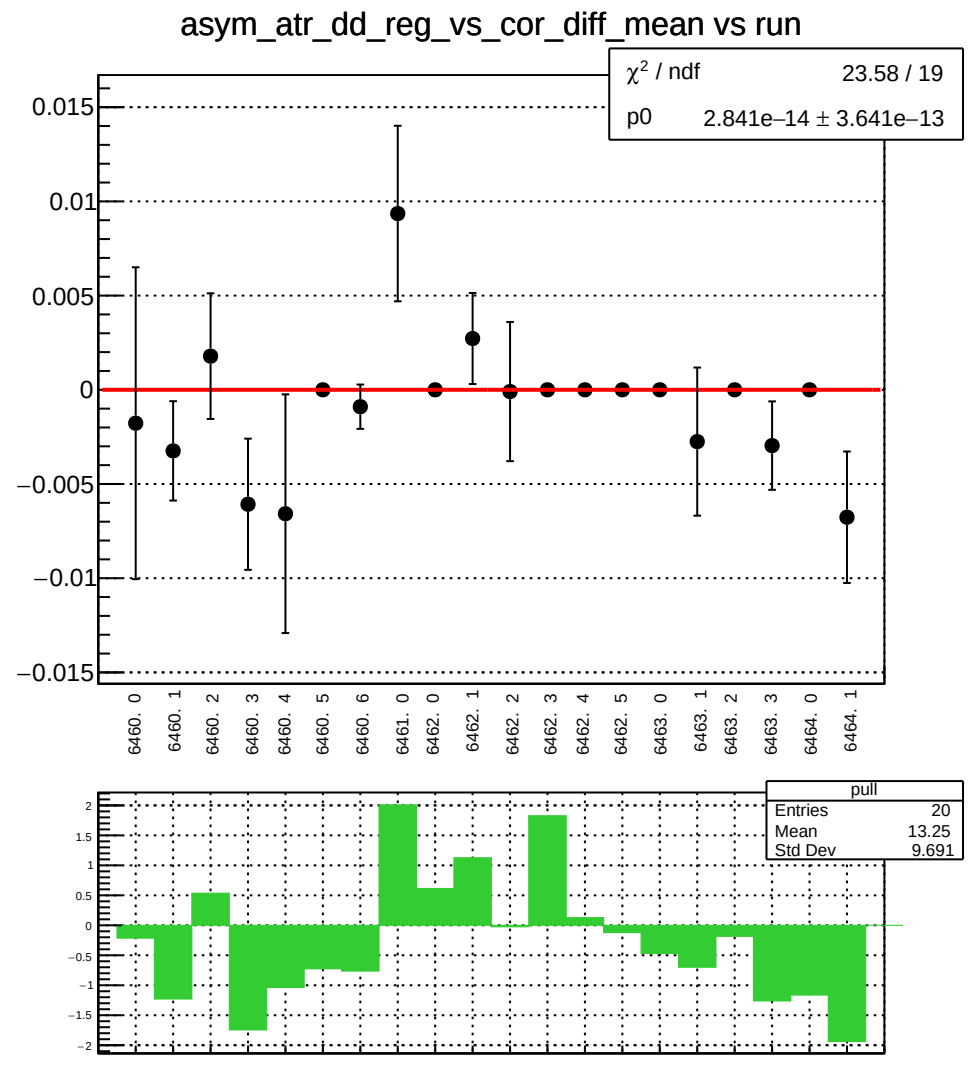

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 12.11 / 19
p0 −6811 ± 7759
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03166
Std Dev 0.7776
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

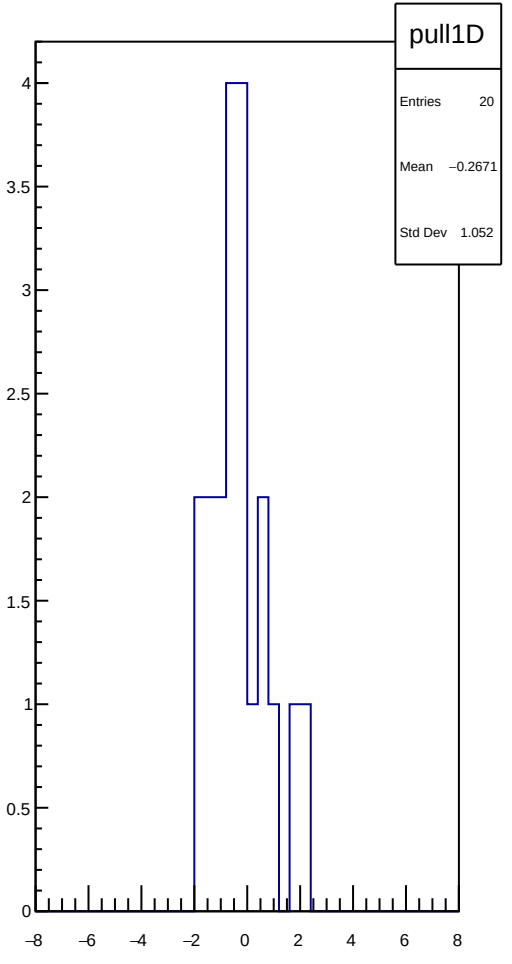

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 349.6 / 19
p0 3491 ± 5.487
3700
3650
3600
3550
3500
3450
3400
3350
3300
3250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

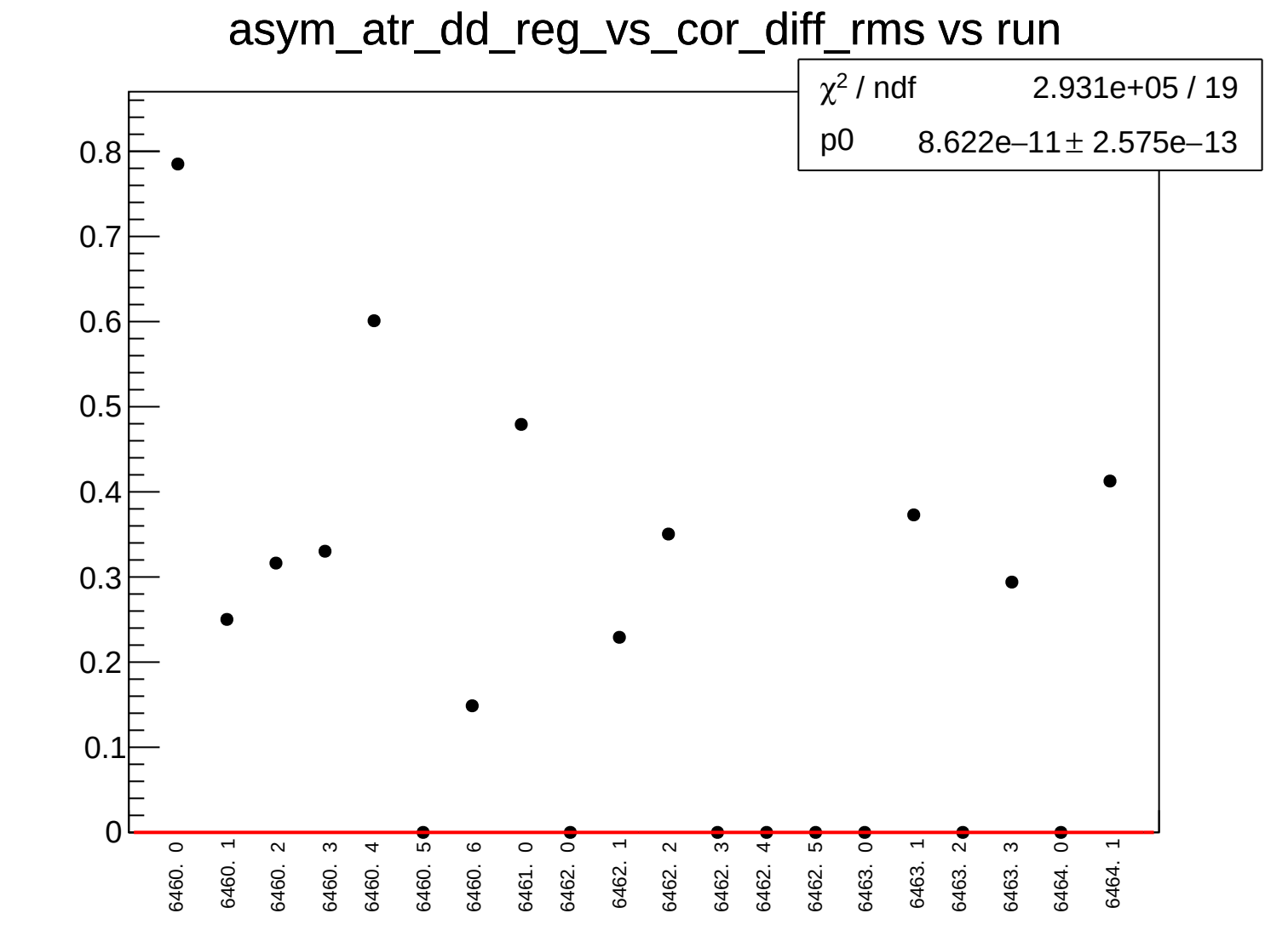

asym_atr_dd_mean vs run
×10^3
χ² / ndf 15.53 / 19
p0 4414 ± 8596
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −10.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

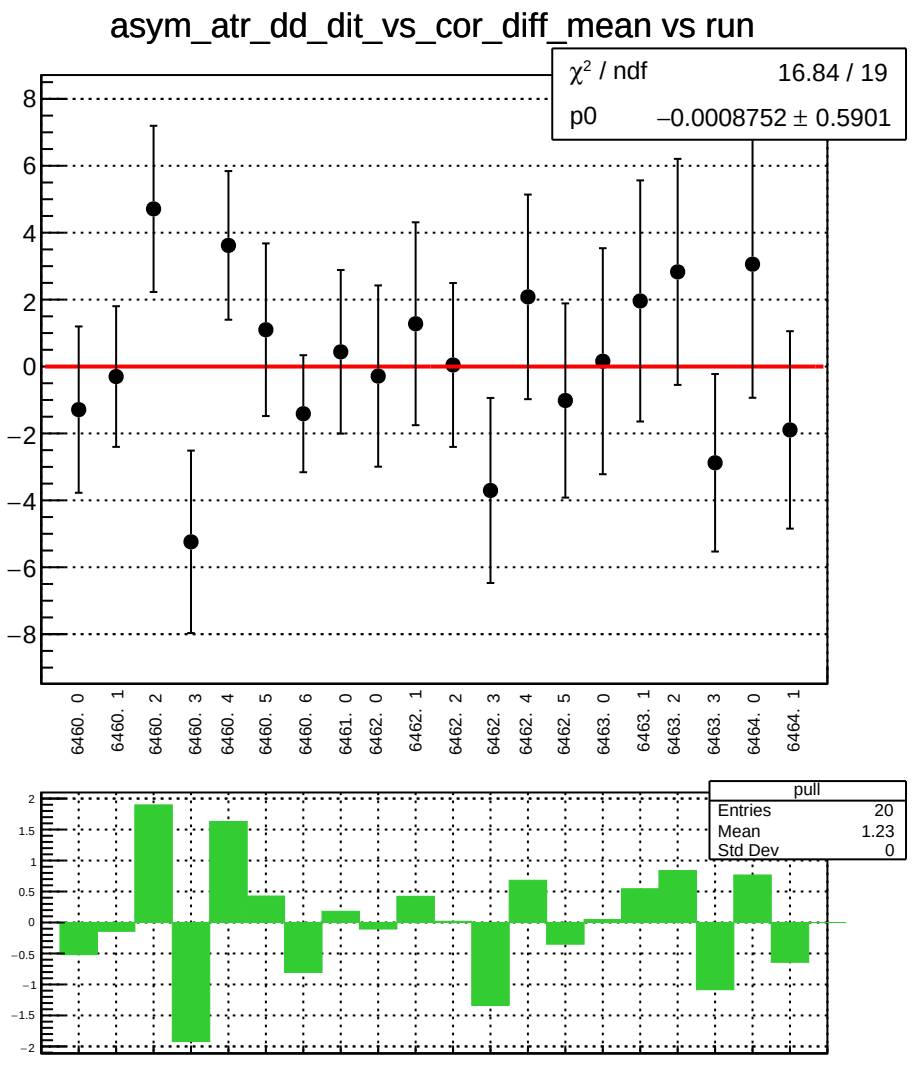

pull1D
Entries 20
Mean −0.04507
Std Dev 0.88
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

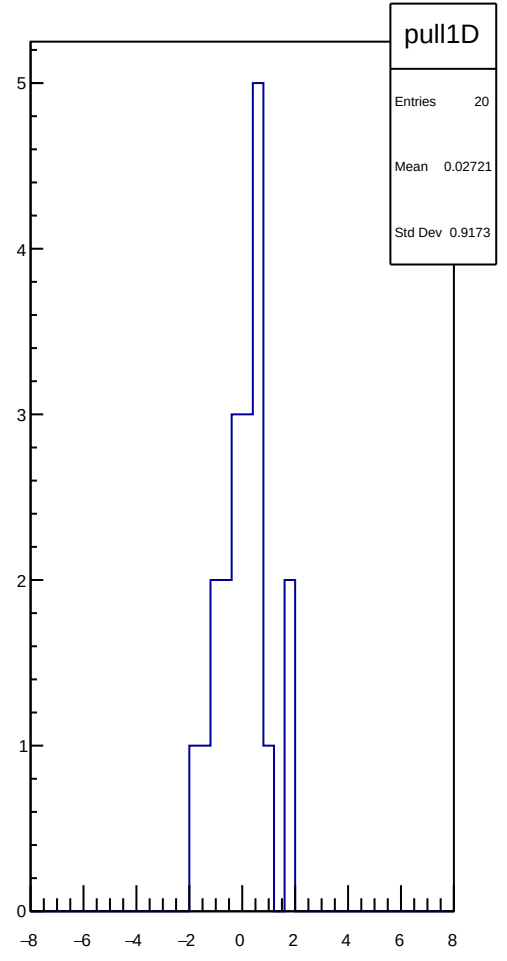

asym_atr_dd_rms vs run
χ² / ndf 205.3 / 19
p0 3868 ± 6.078
4100
4050
4000
3950
3900
3850
3800
3750
3700
3650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

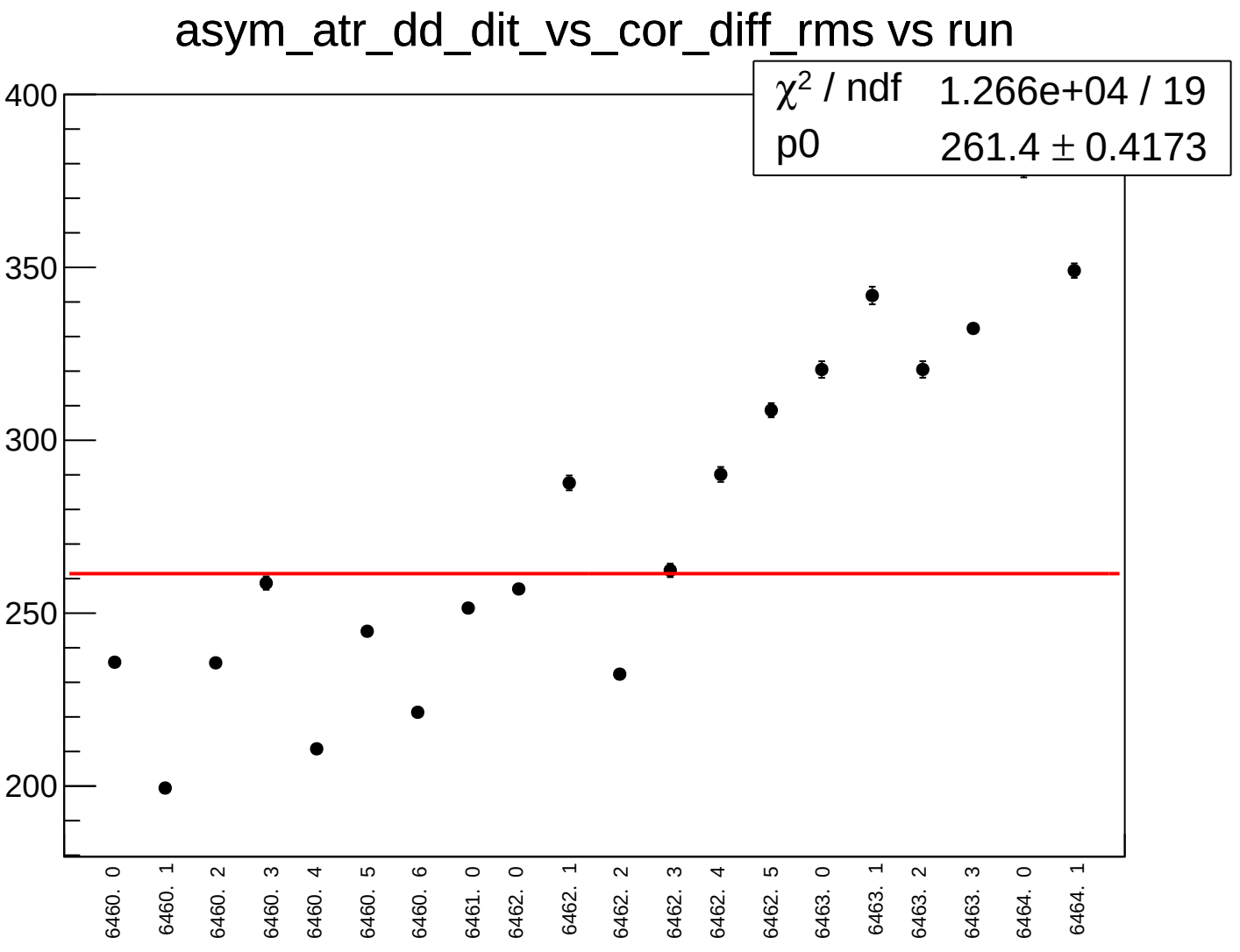

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 23.58 / 19
p0 2.841e−14 ± 3.641e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.25
Std Dev 9.691
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

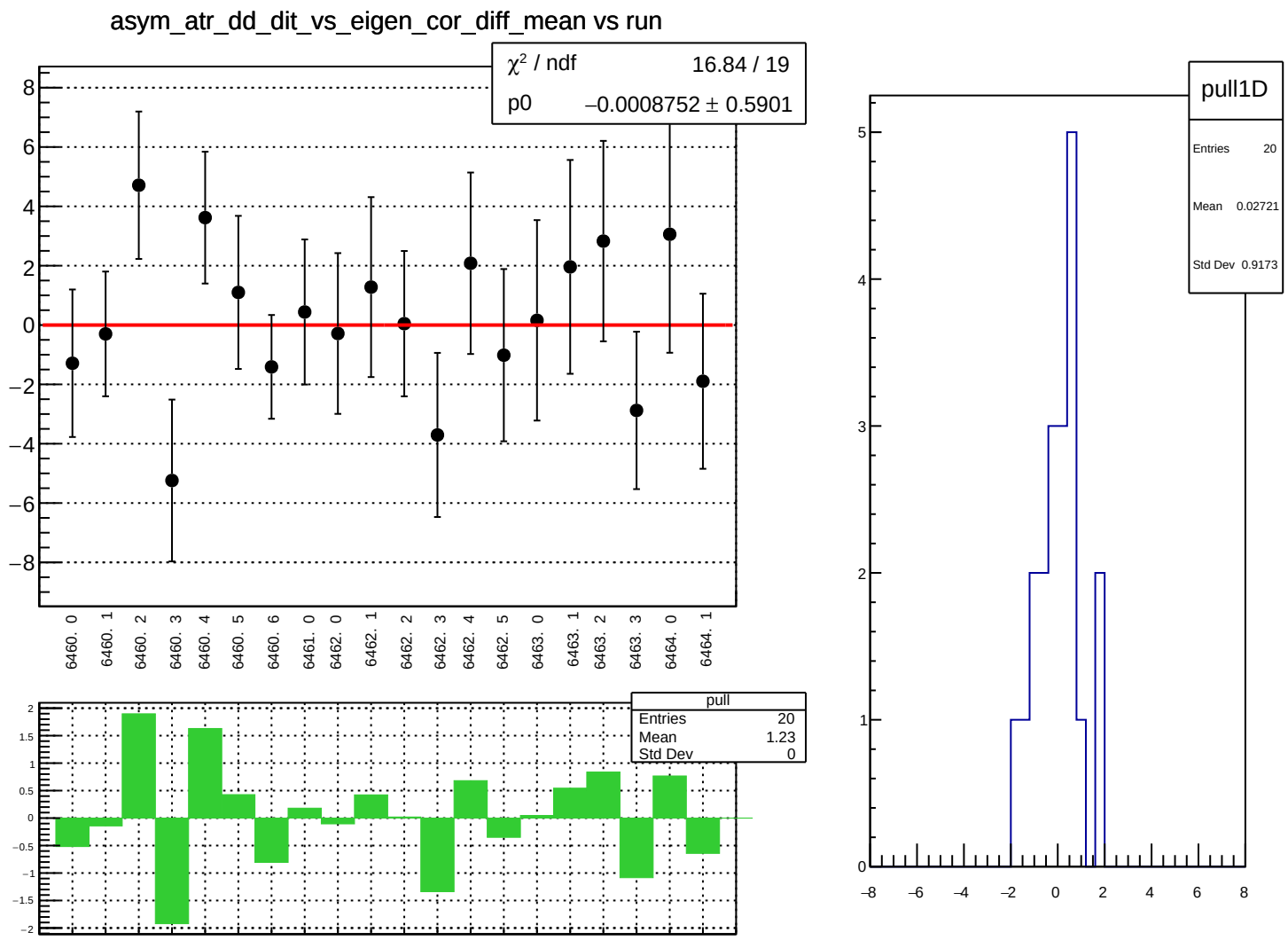

pull1D
Entries 20
Mean −0.2671
Std Dev 1.052
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

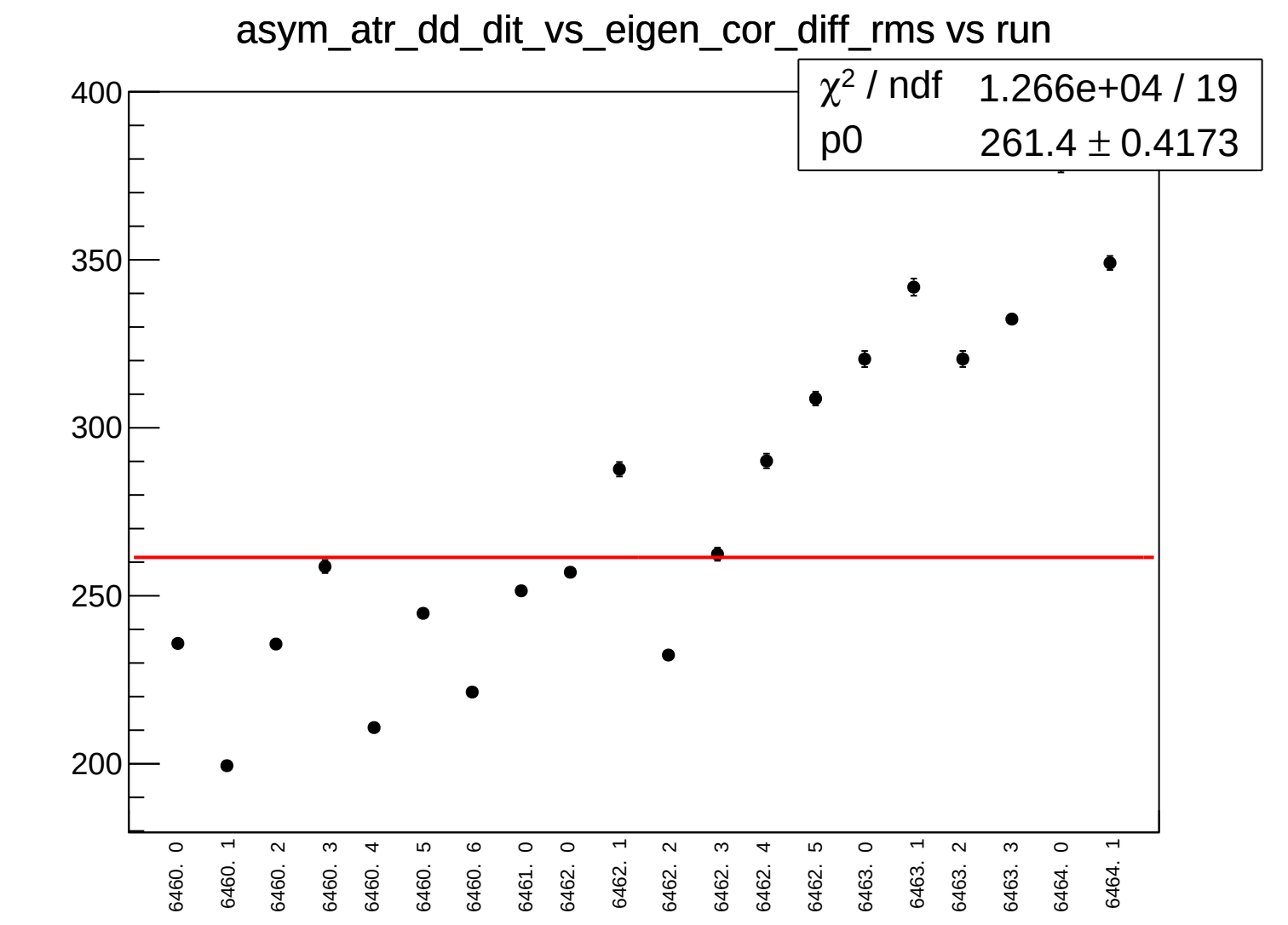

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.931e+05 / 19
p0 8.622e−11 ± 2.575e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

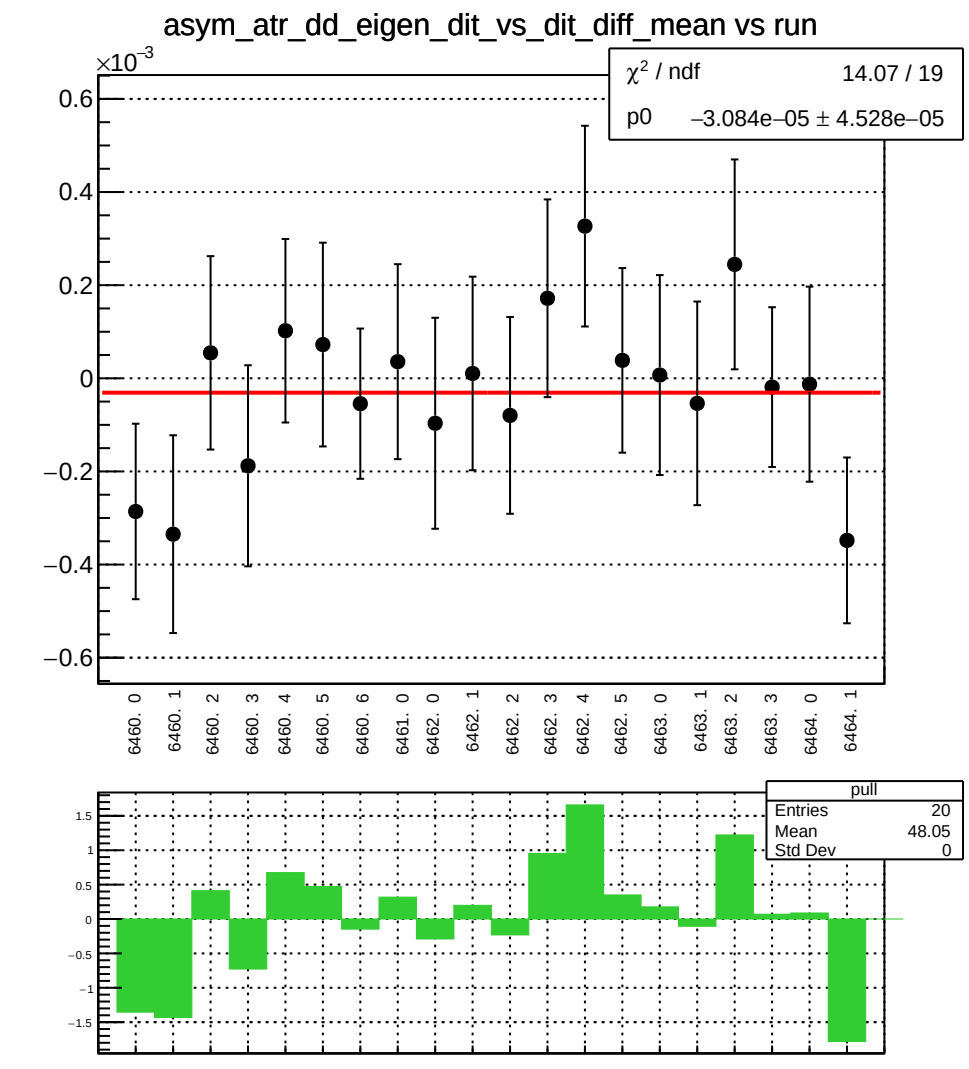

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 16.84 / 19
p0 −0.0008752 ± 0.5901
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

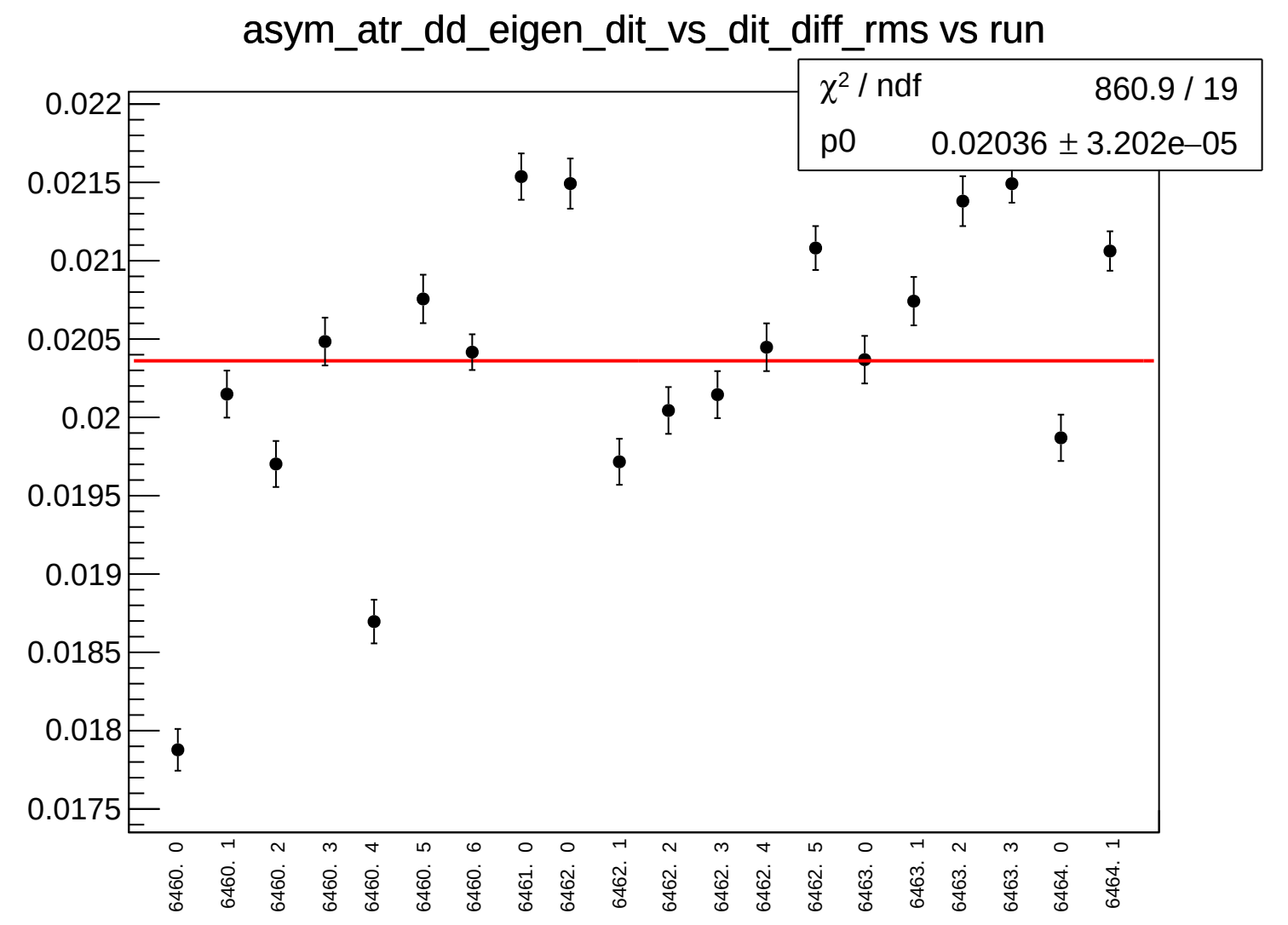

pull1D
Entries 20
Mean 0.02721
Std Dev 0.9173
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

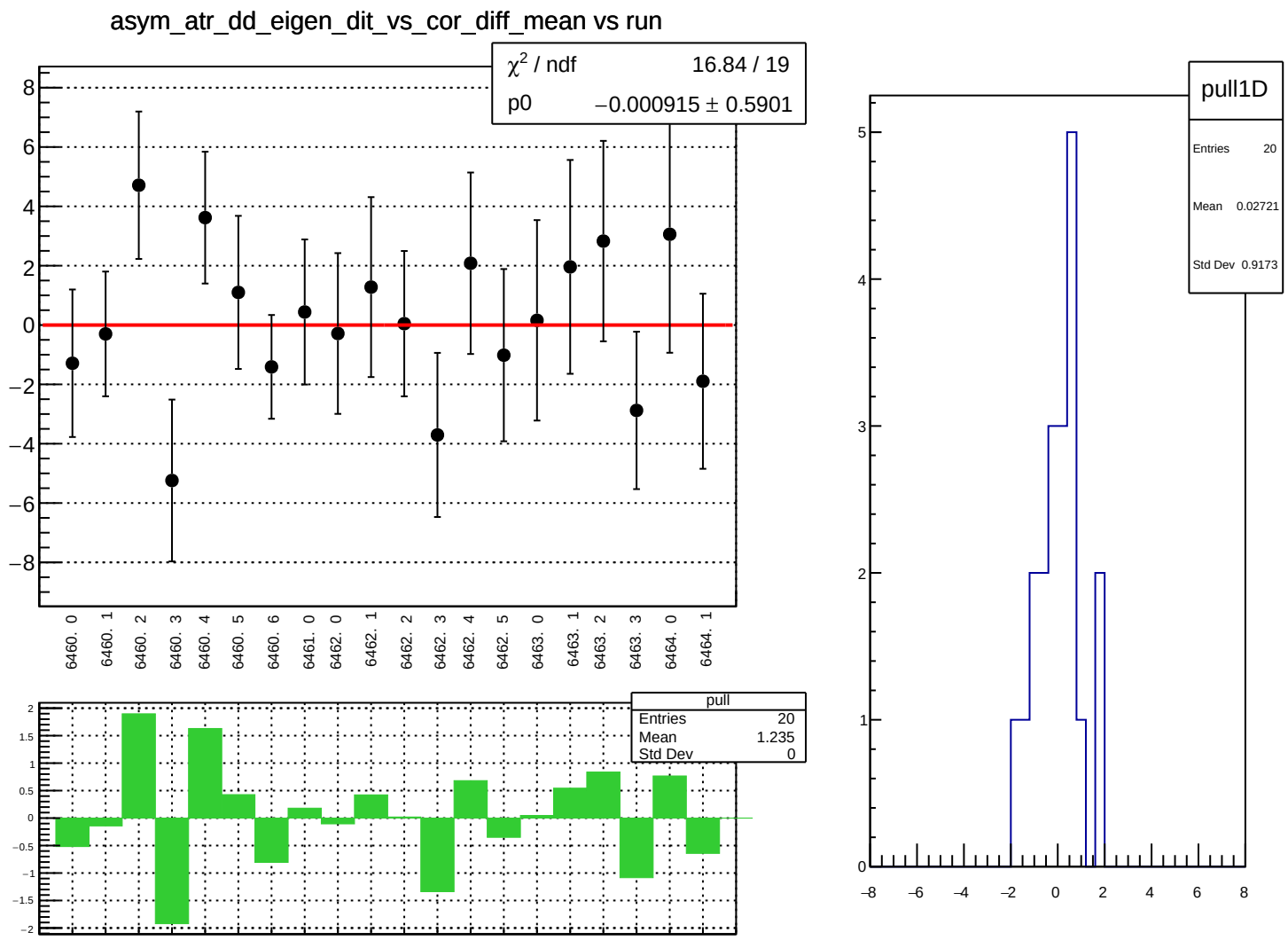

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.266e+04 / 19
p0 261.4 ± 0.4173
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

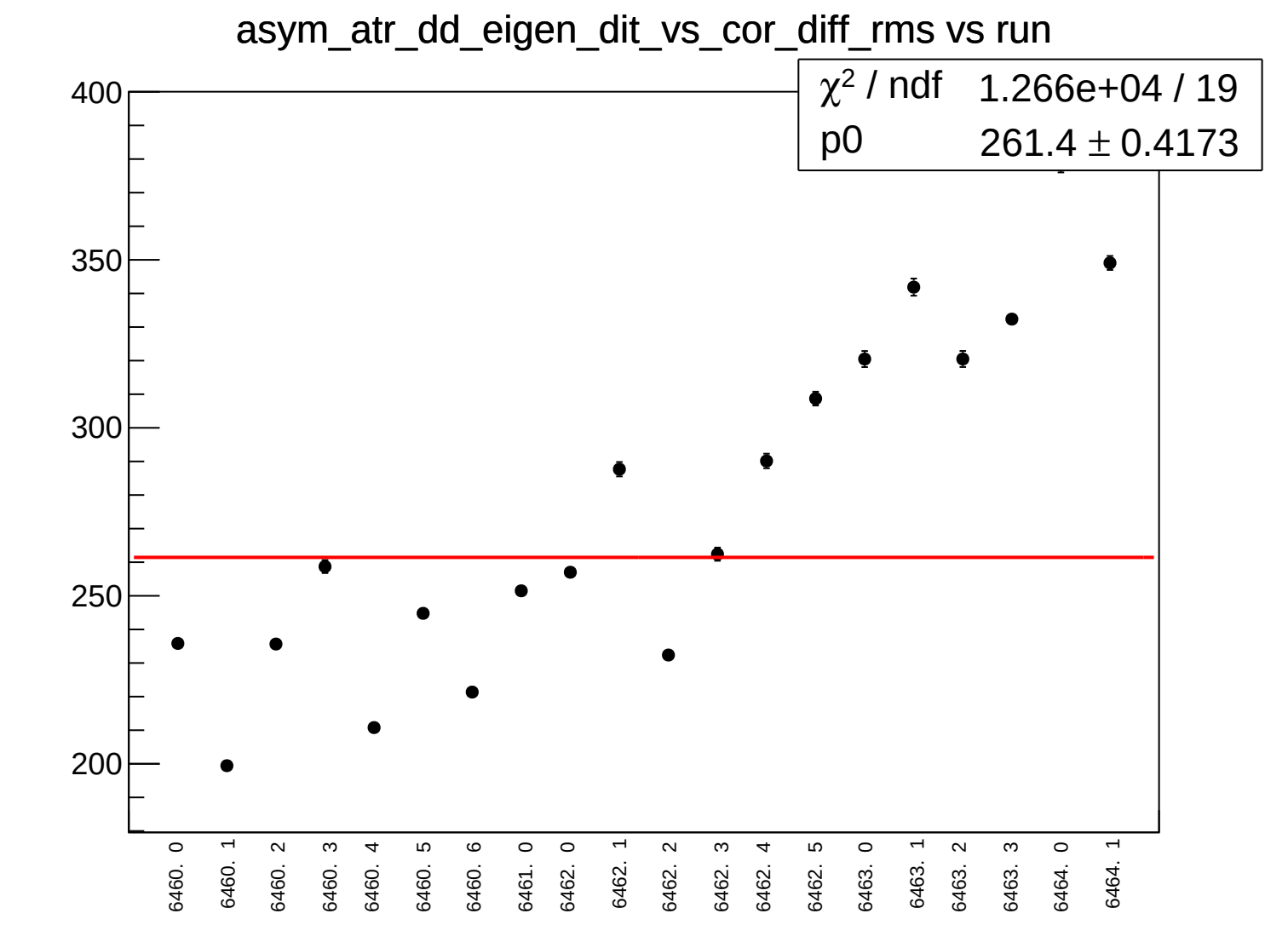

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.84 / 19
p0 −0.0008752 ± 0.5901
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.23
Std Dev 0
pull1D
Entries 20
Mean 0.02721
Std Dev 0.9173

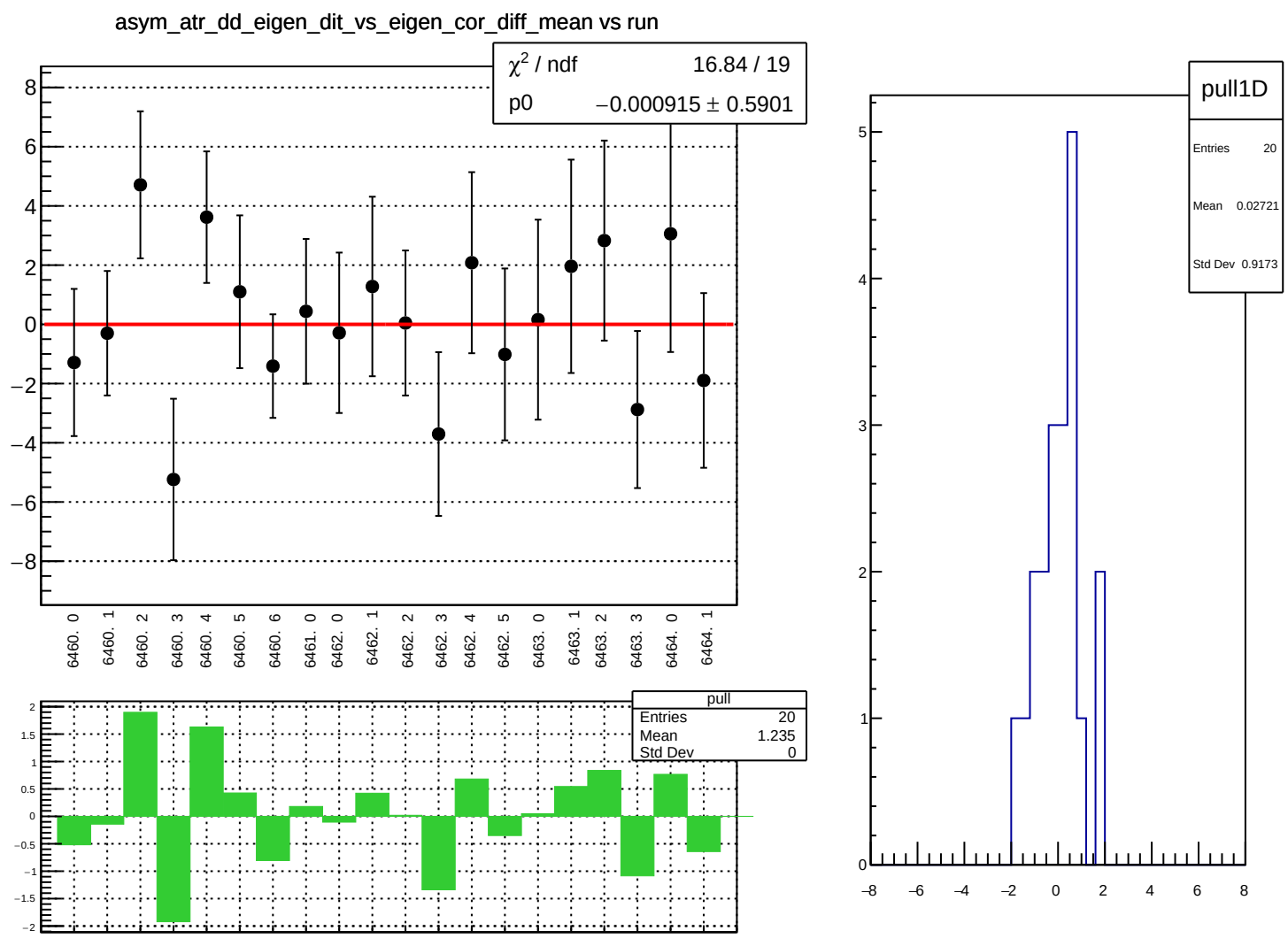

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.266e+04 / 19
p0 261.4 ± 0.4173
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

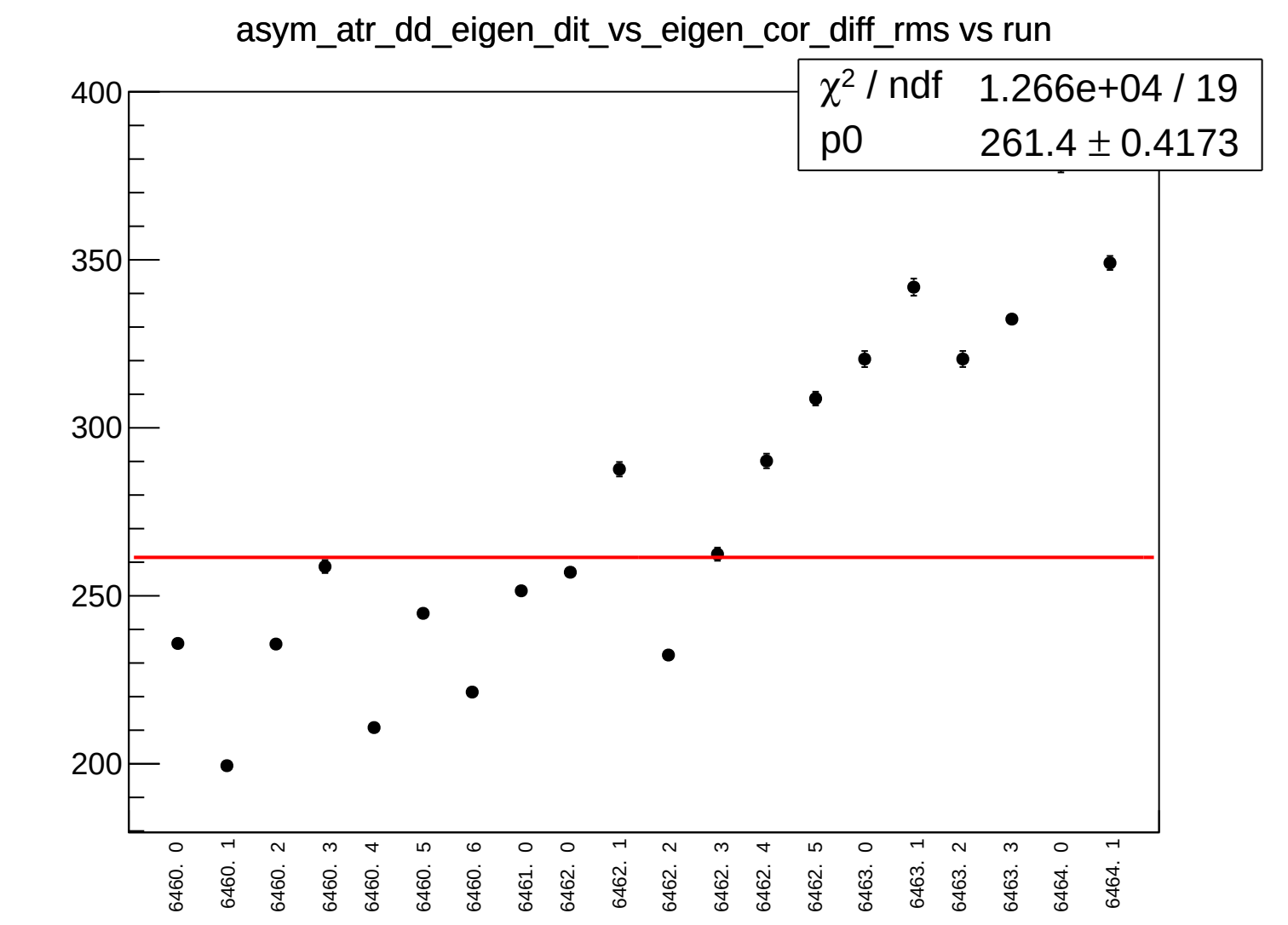

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.07 / 19
p0 −3.084e−05 ± 4.528e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02637
Std Dev 0.8383
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

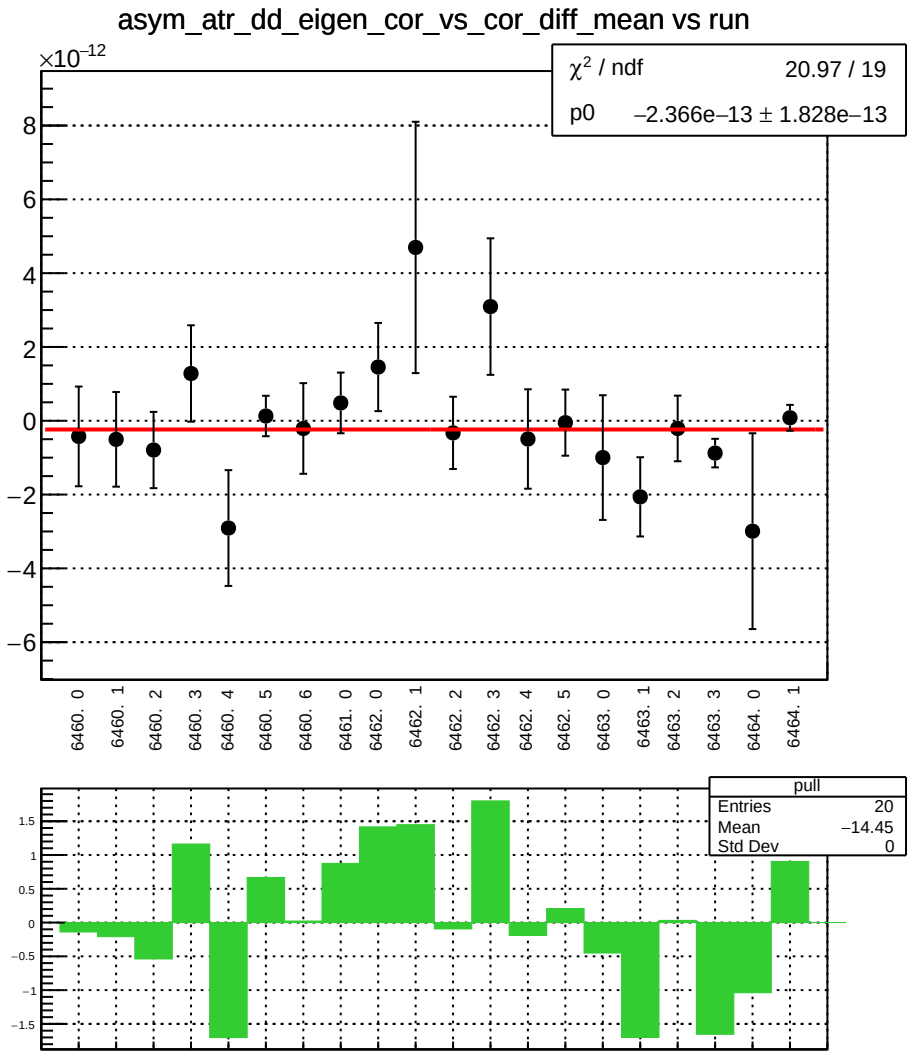

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 860.9 / 19
p0 0.02036 ± 3.202e–05
0.022
0.0215
0.021
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

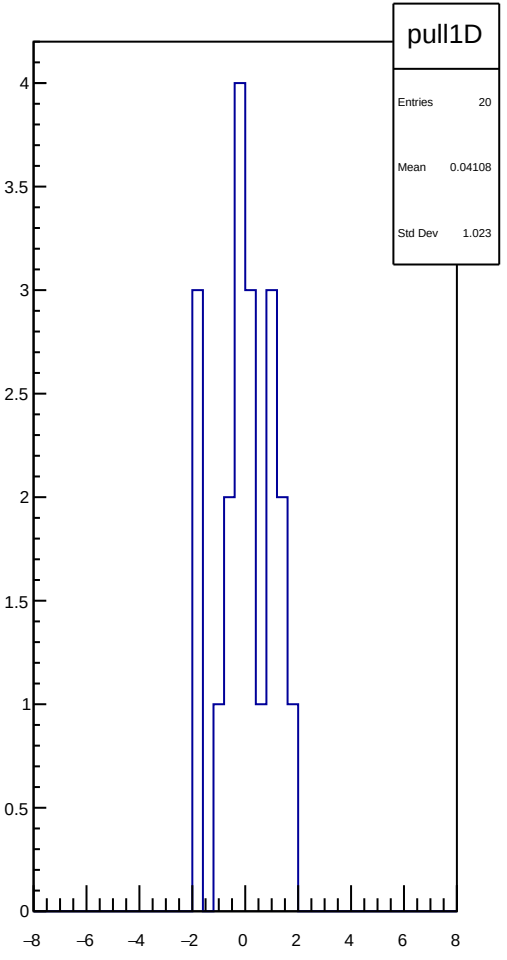

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.84 / 19
p0 −0.000915 ± 0.5901
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.235
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.02721
Std Dev 0.9173
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

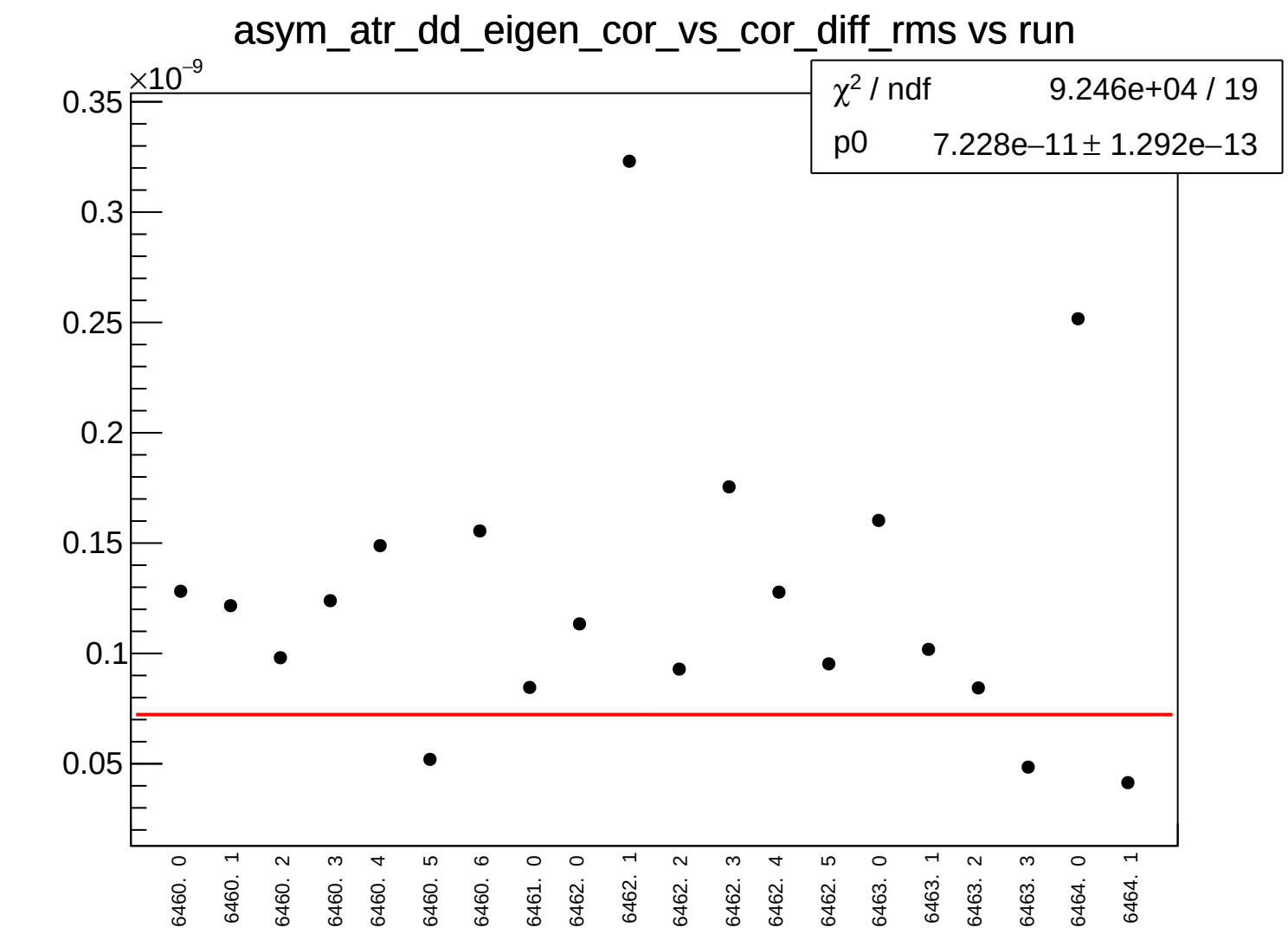

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.266e+04 / 19
p0 261.4 ± 0.4173
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

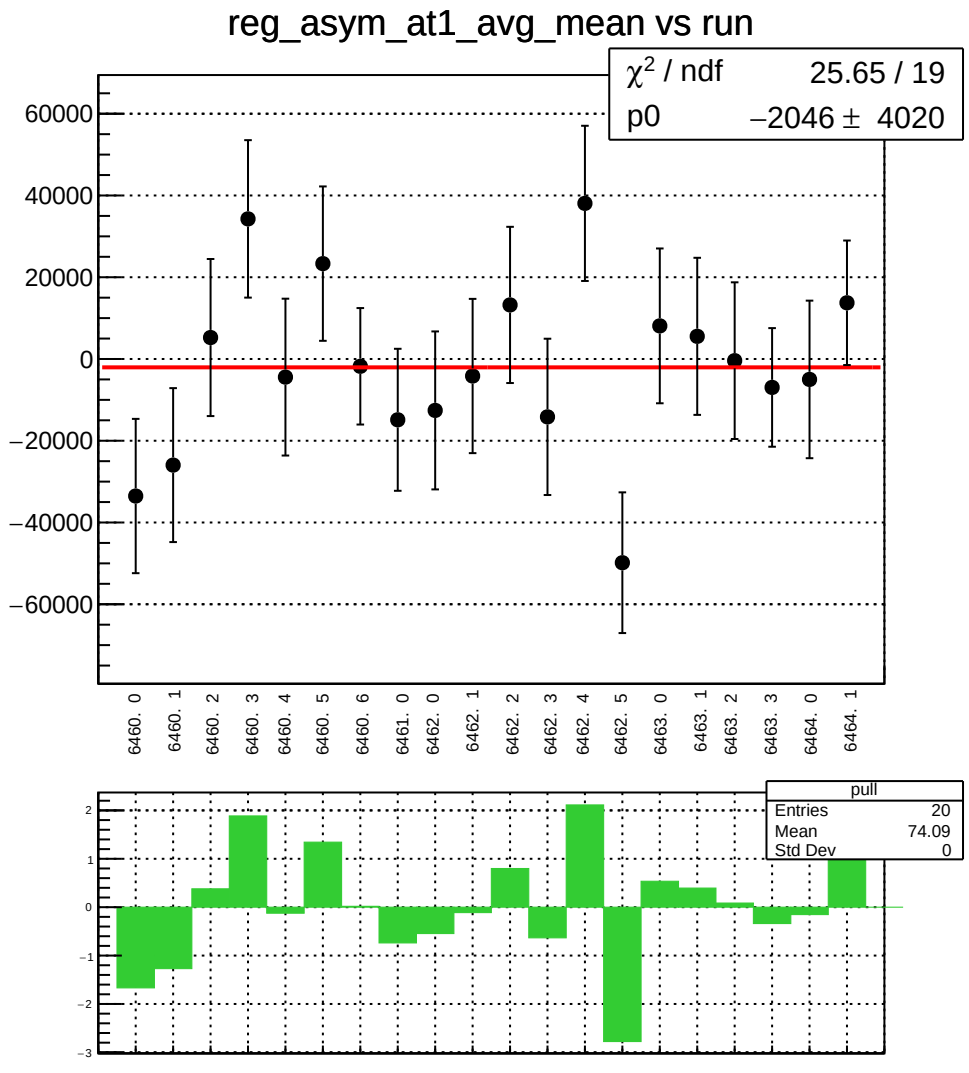

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.84 / 19
p0 −0.000915 ± 0.5901
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.235
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.02721
Std Dev 0.9173
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

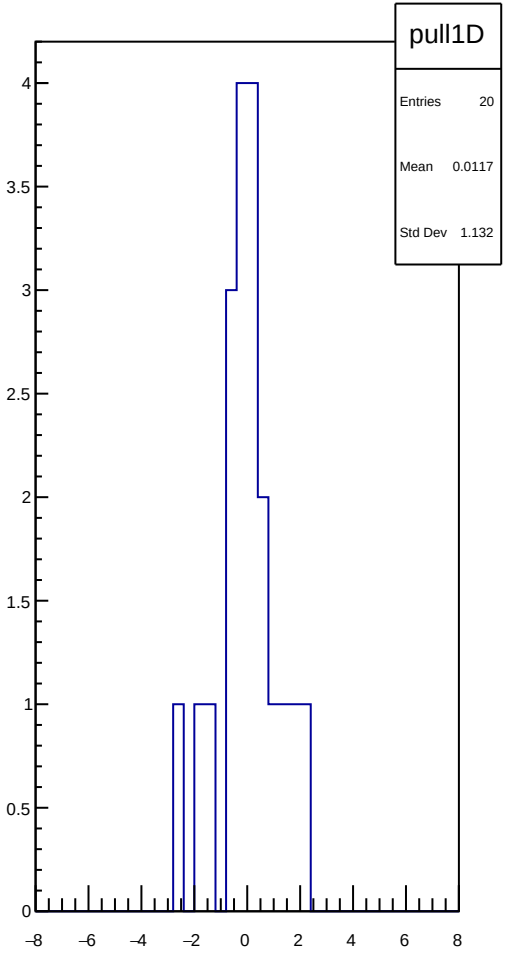

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.266e+04 / 19
p0 261.4 ± 0.4173
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

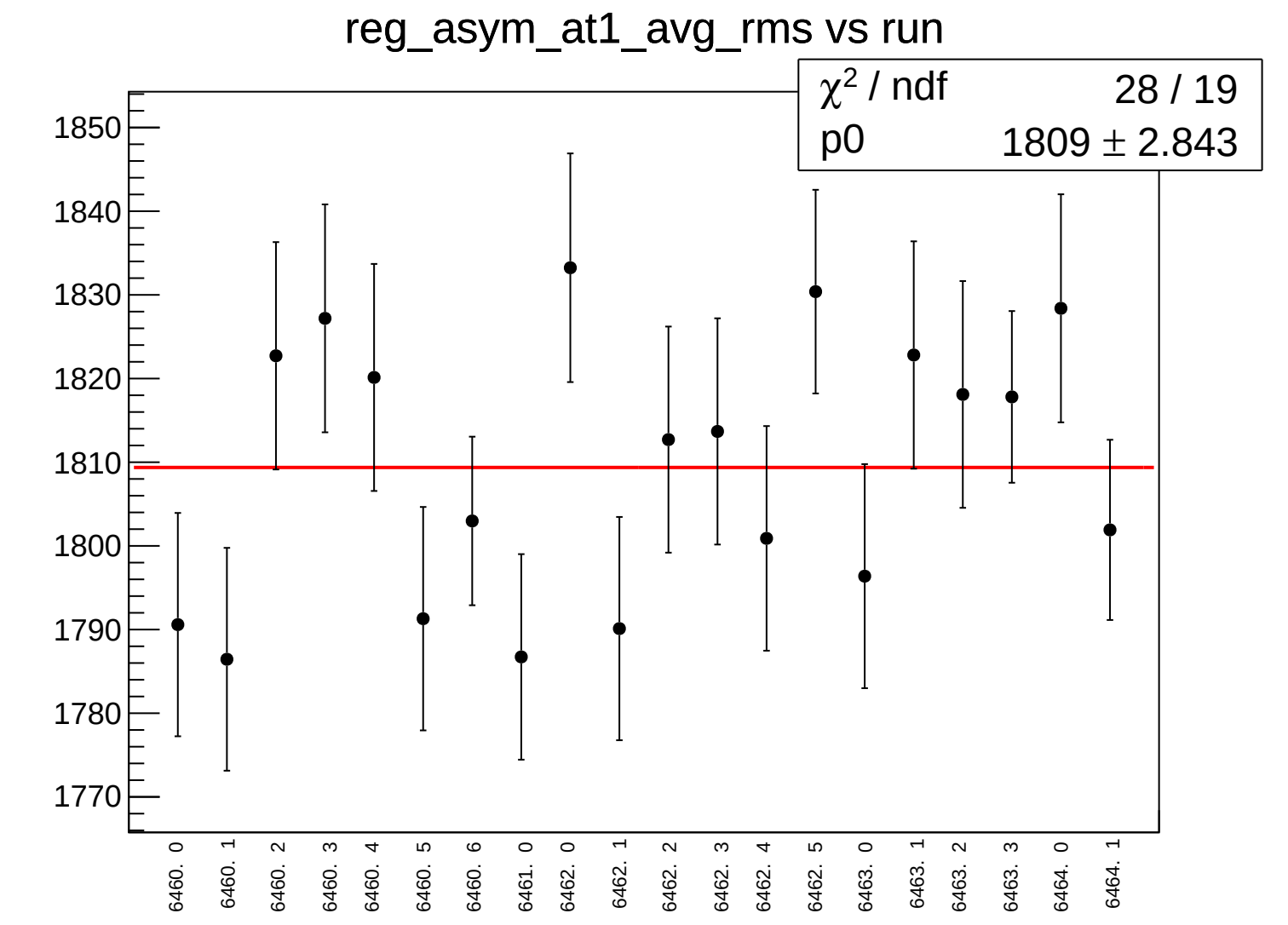

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.97 / 19
p0 −2.366e−13 ± 1.828e−13
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −14.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

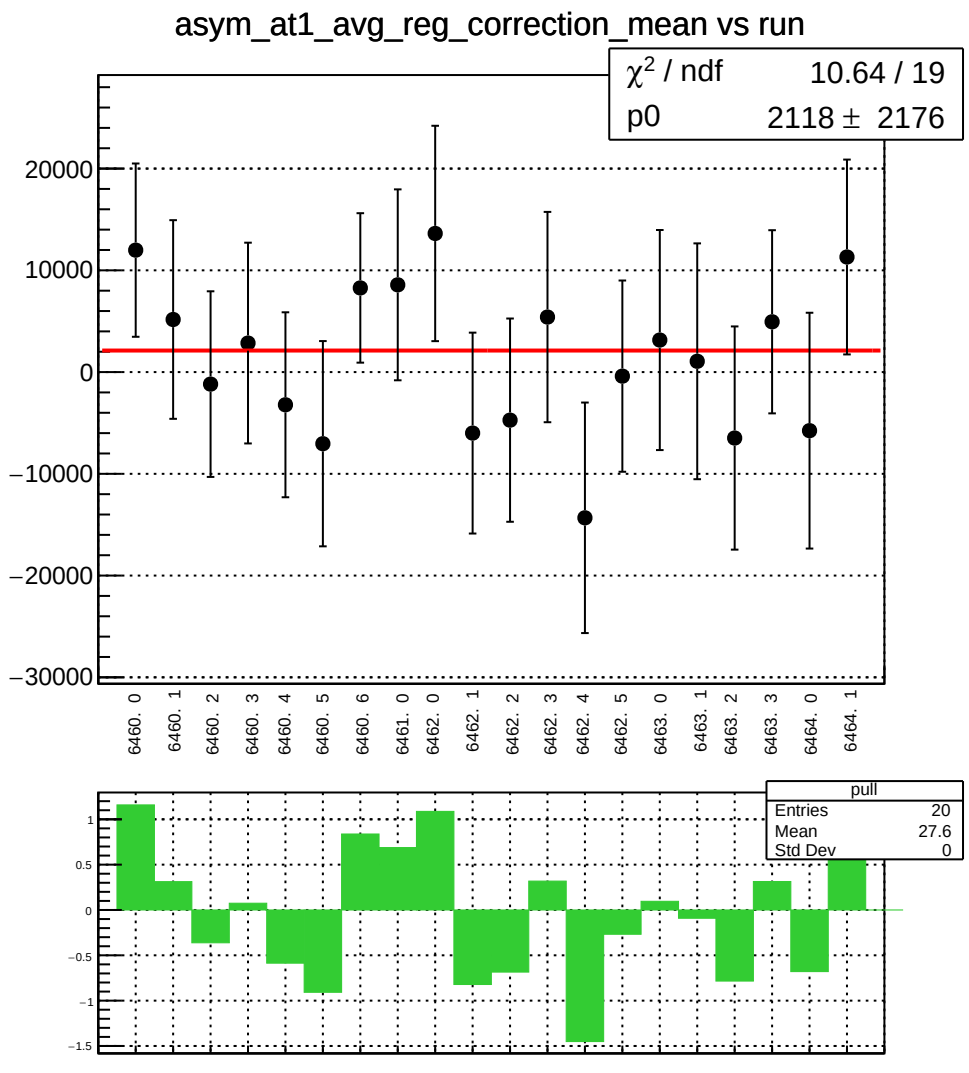

pull1D
Entries 20
Mean 0.04108
Std Dev 1.023
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

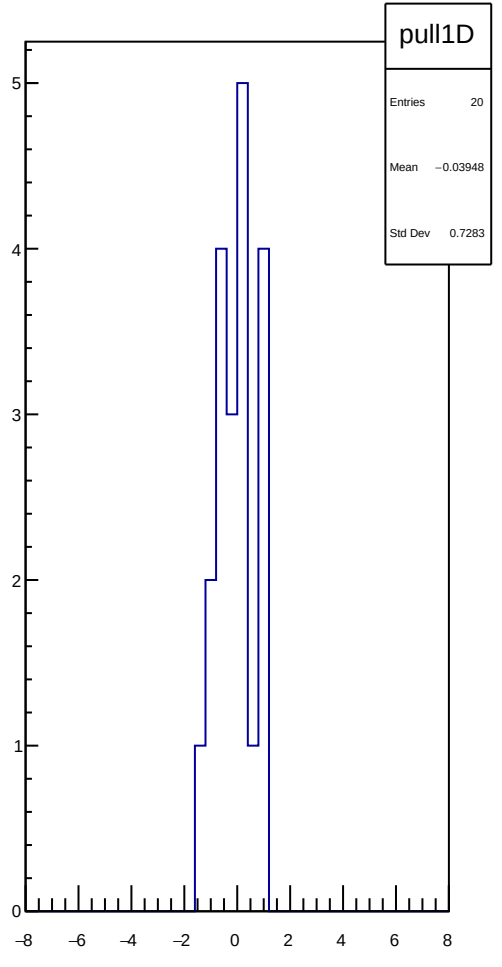

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.246e+04 / 19
p0 7.228e−11 ± 1.292e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

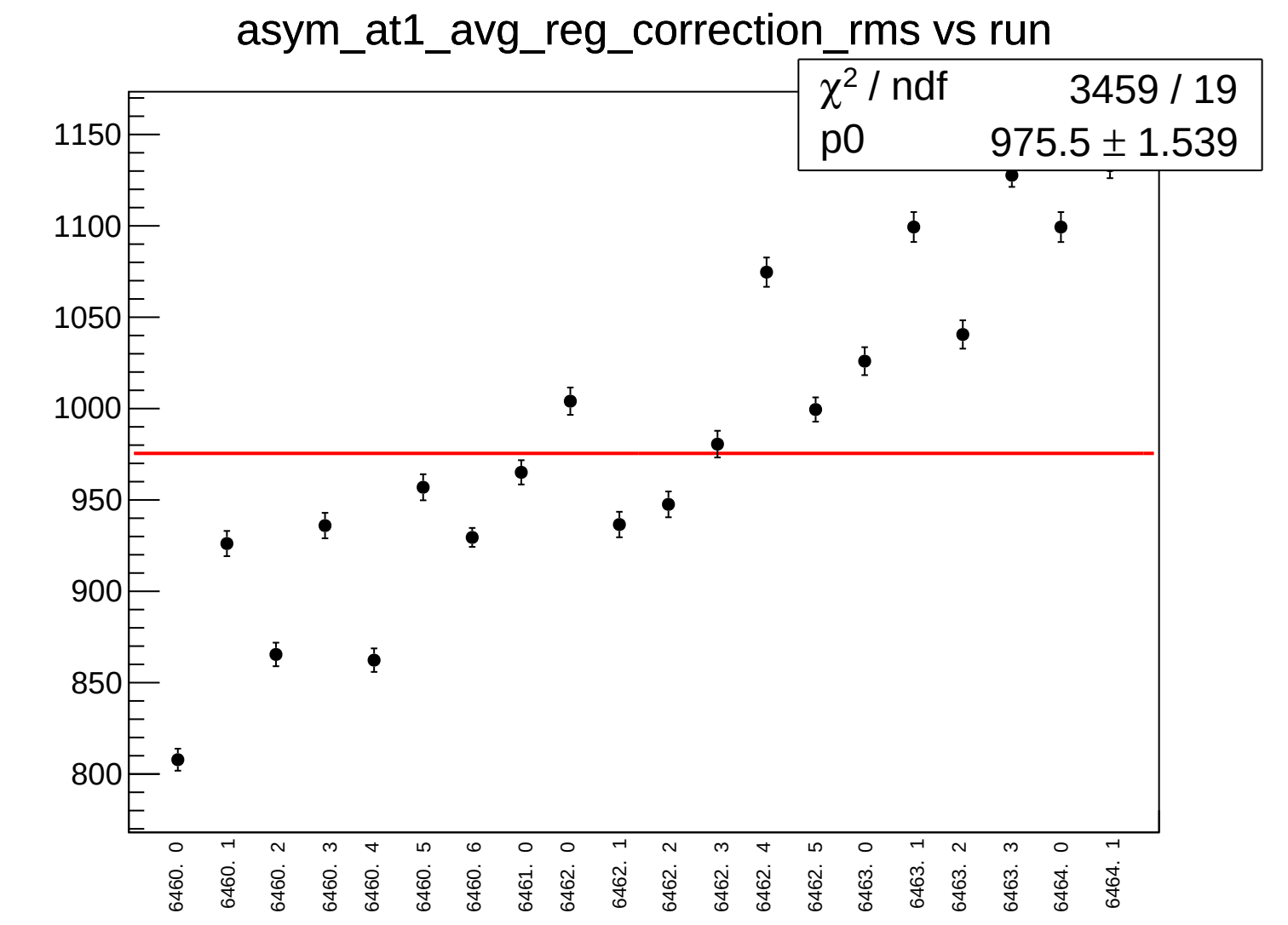

reg_asym_at1_avg_mean vs run
χ² / ndf 25.65 / 19
p0 −2046 ± 4020
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 74.09
Std Dev 0
2
1
0
−1
−2
−3

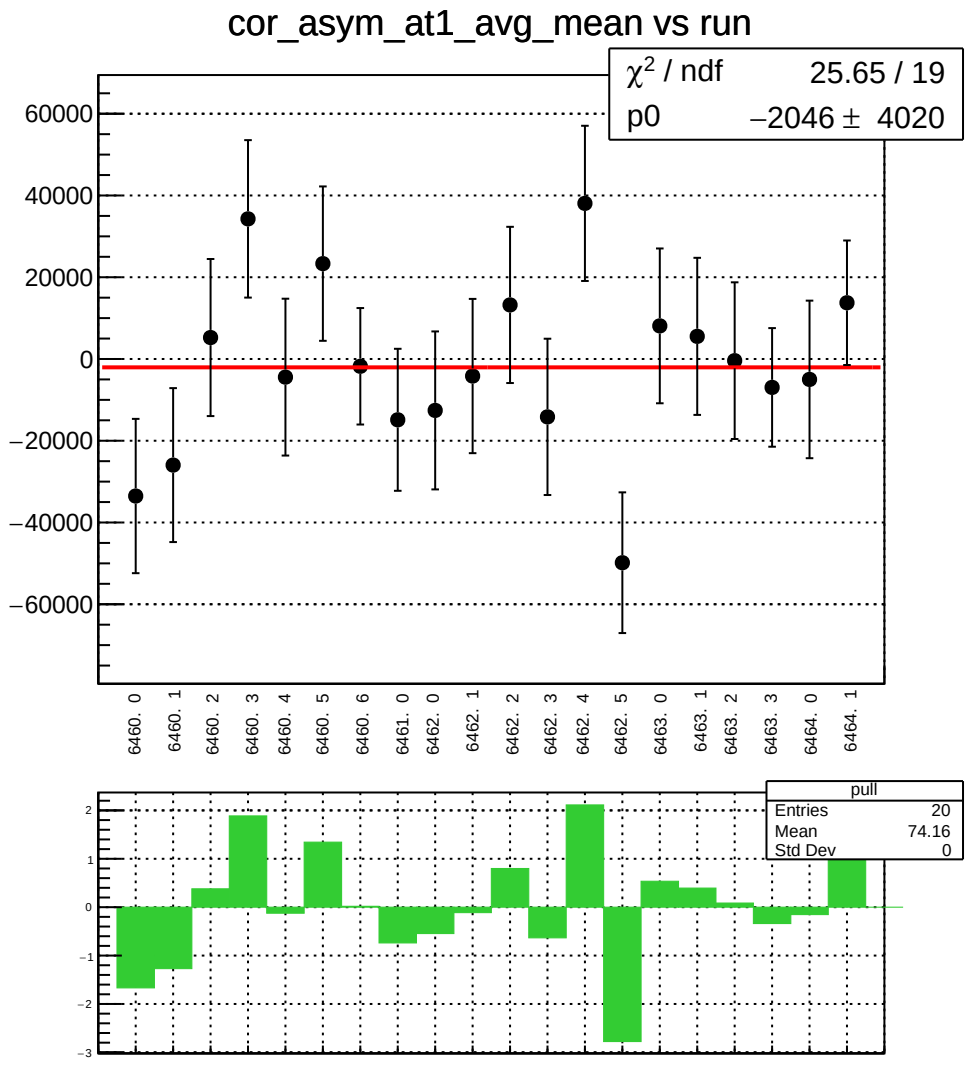

pull1D
Entries 20
Mean 0.0117
Std Dev 1.132
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

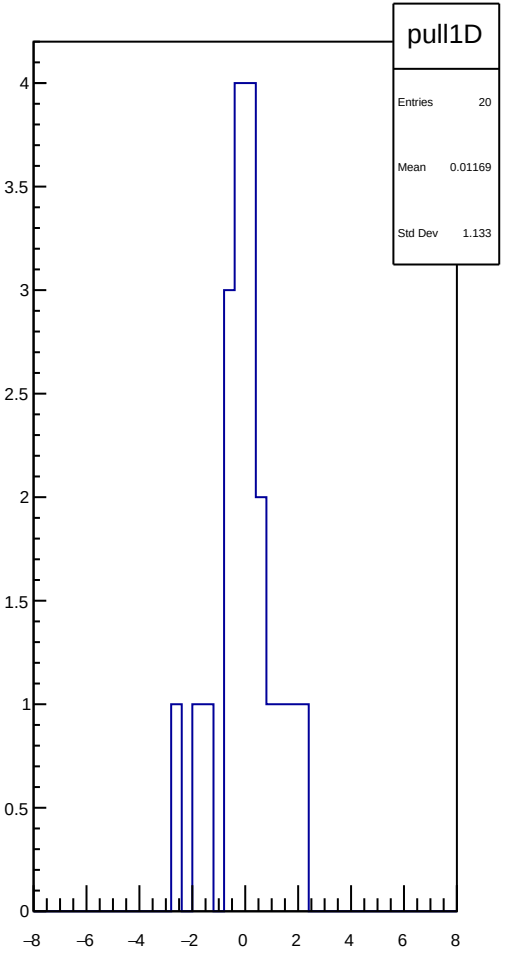

reg_asym_at1_avg_rms vs run
χ² / ndf 28 / 19
p0 1809 ± 2.843
1850
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

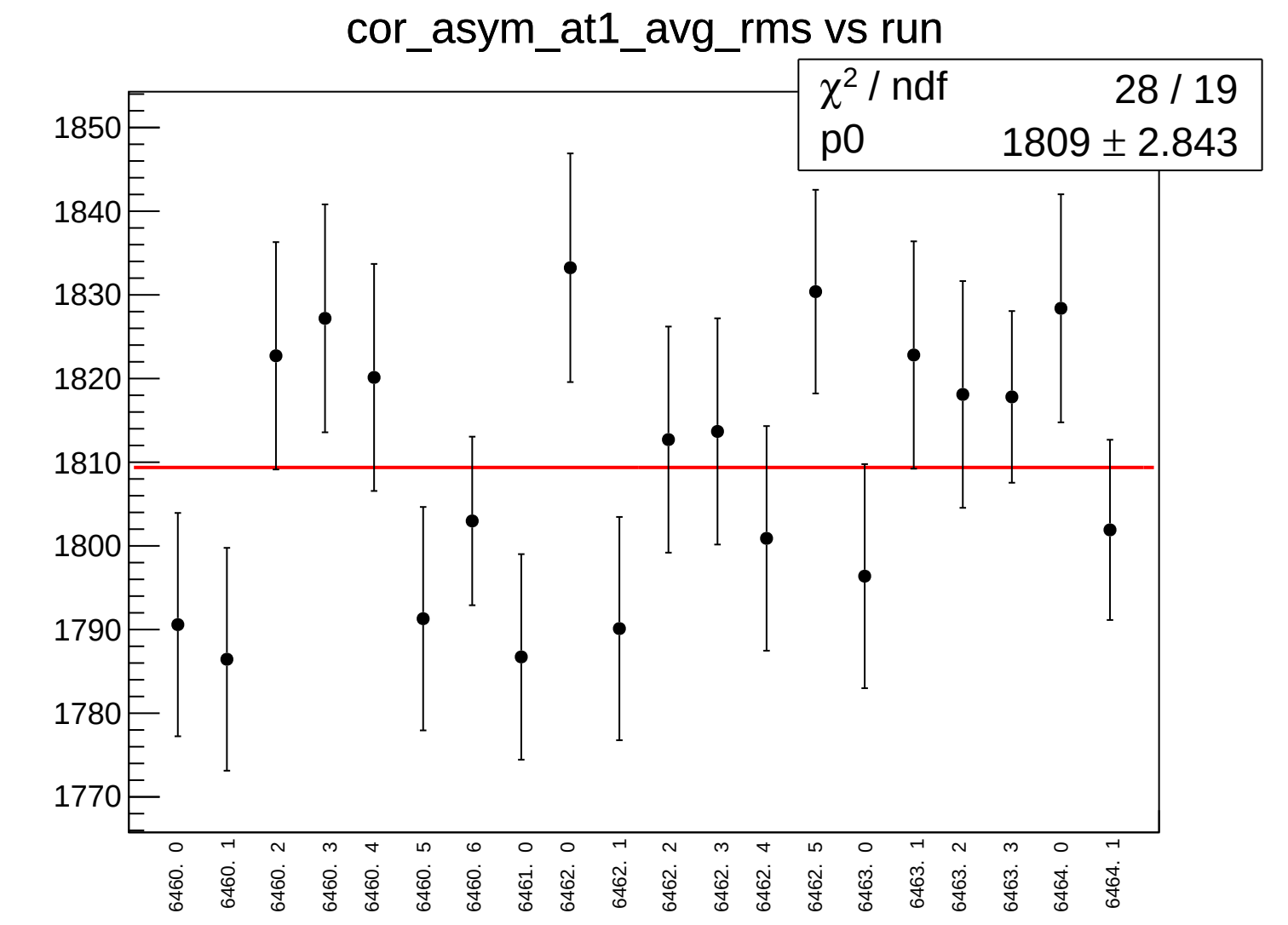

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 10.64 / 19
p0 2118 ± 2176
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

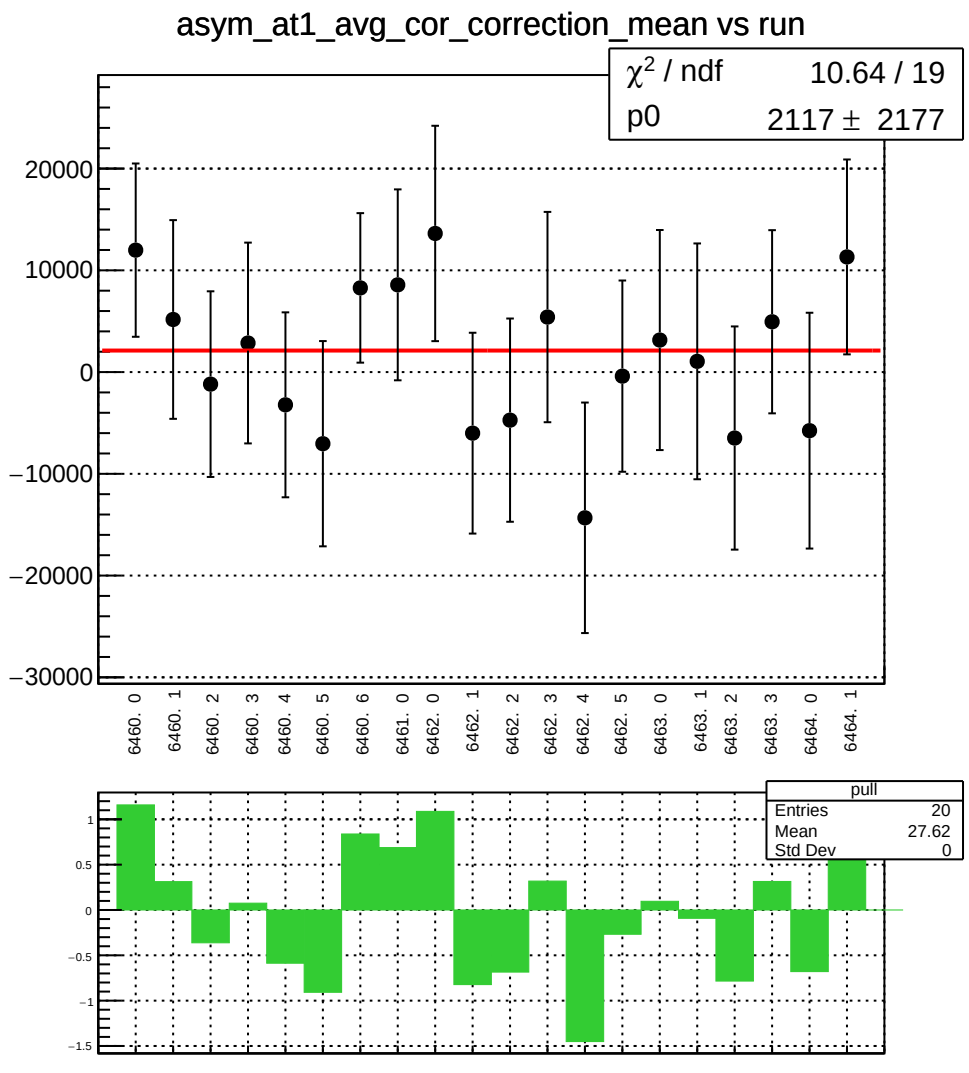

pull1D
Entries 20
Mean −0.03948
Std Dev 0.7283
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

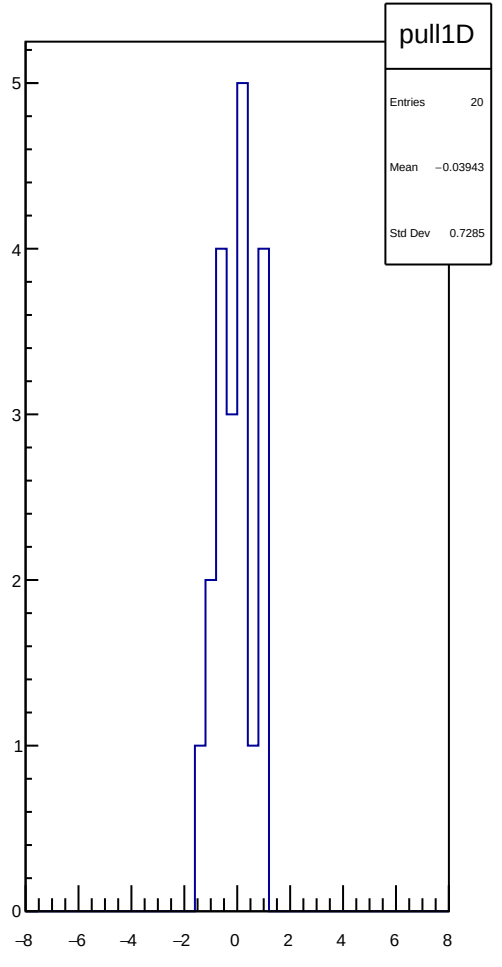

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 3459 / 19
p0 975.5 ± 1.539
1150
1100
1050
1000
950
900
850
800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

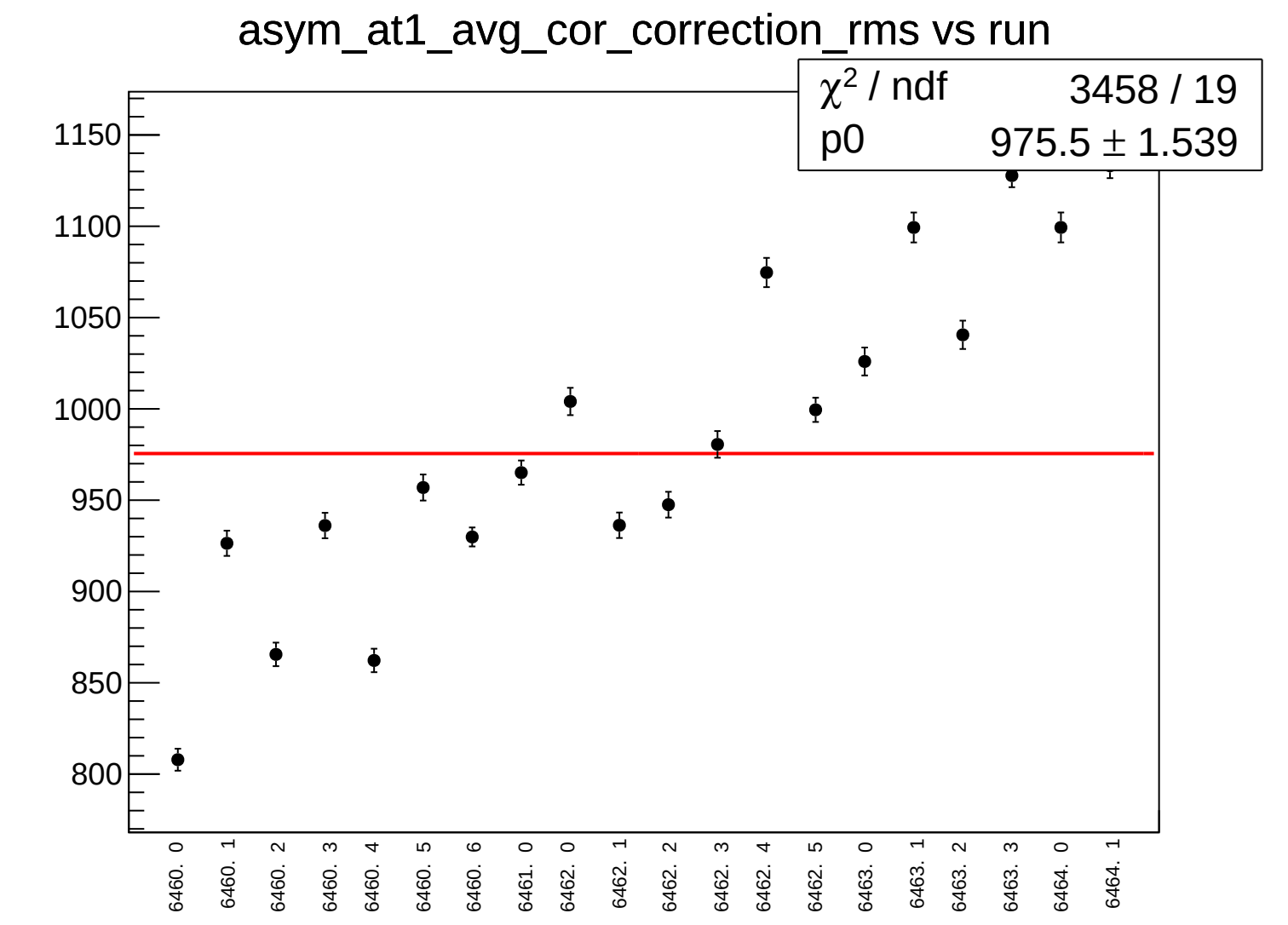

cor_asym_at1_avg_mean vs run
χ² / ndf 25.65 / 19
p0 −2046 ± 4020
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 74.16
Std Dev 0
2
1
0
−1
−2
−3

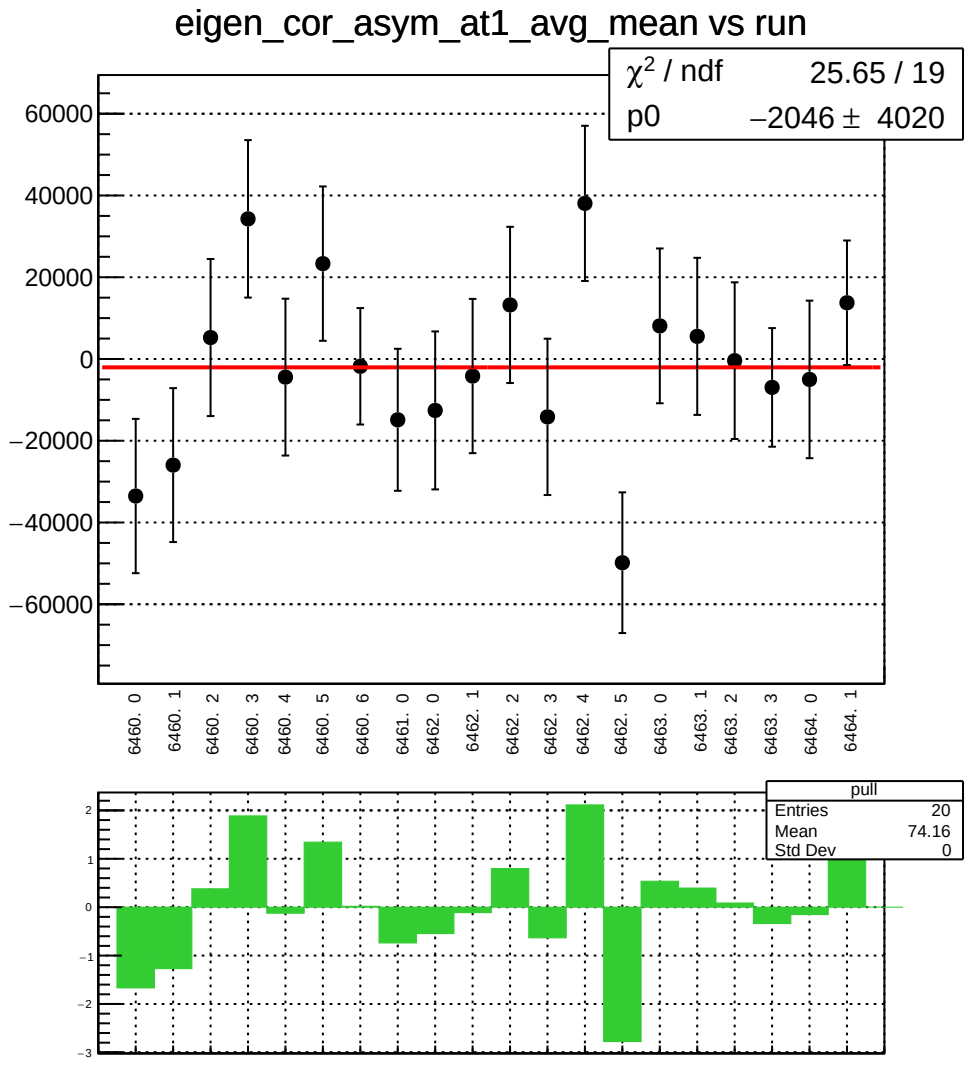

pull1D
Entries 20
Mean 0.01169
Std Dev 1.133
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

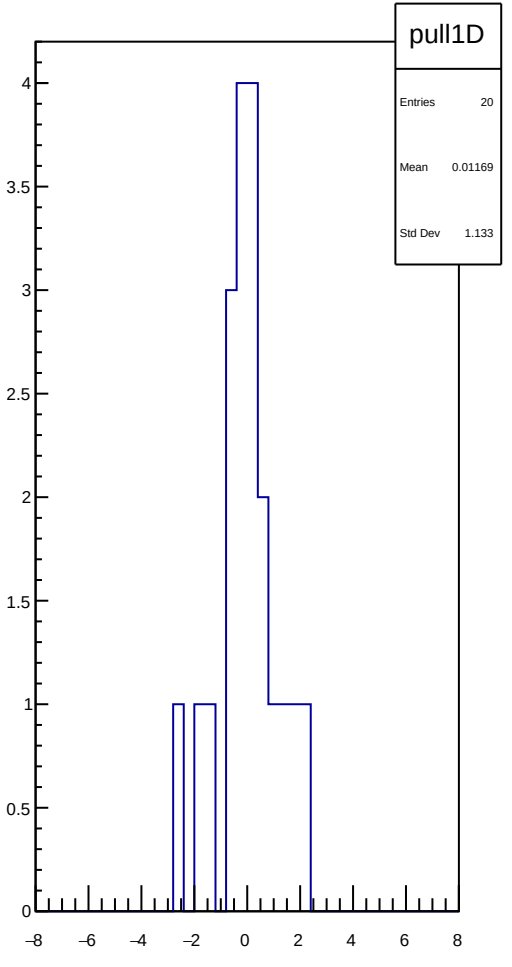

cor_asym_at1_avg_rms vs run
χ² / ndf 28 / 19
p0 1809 ± 2.843
1850
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

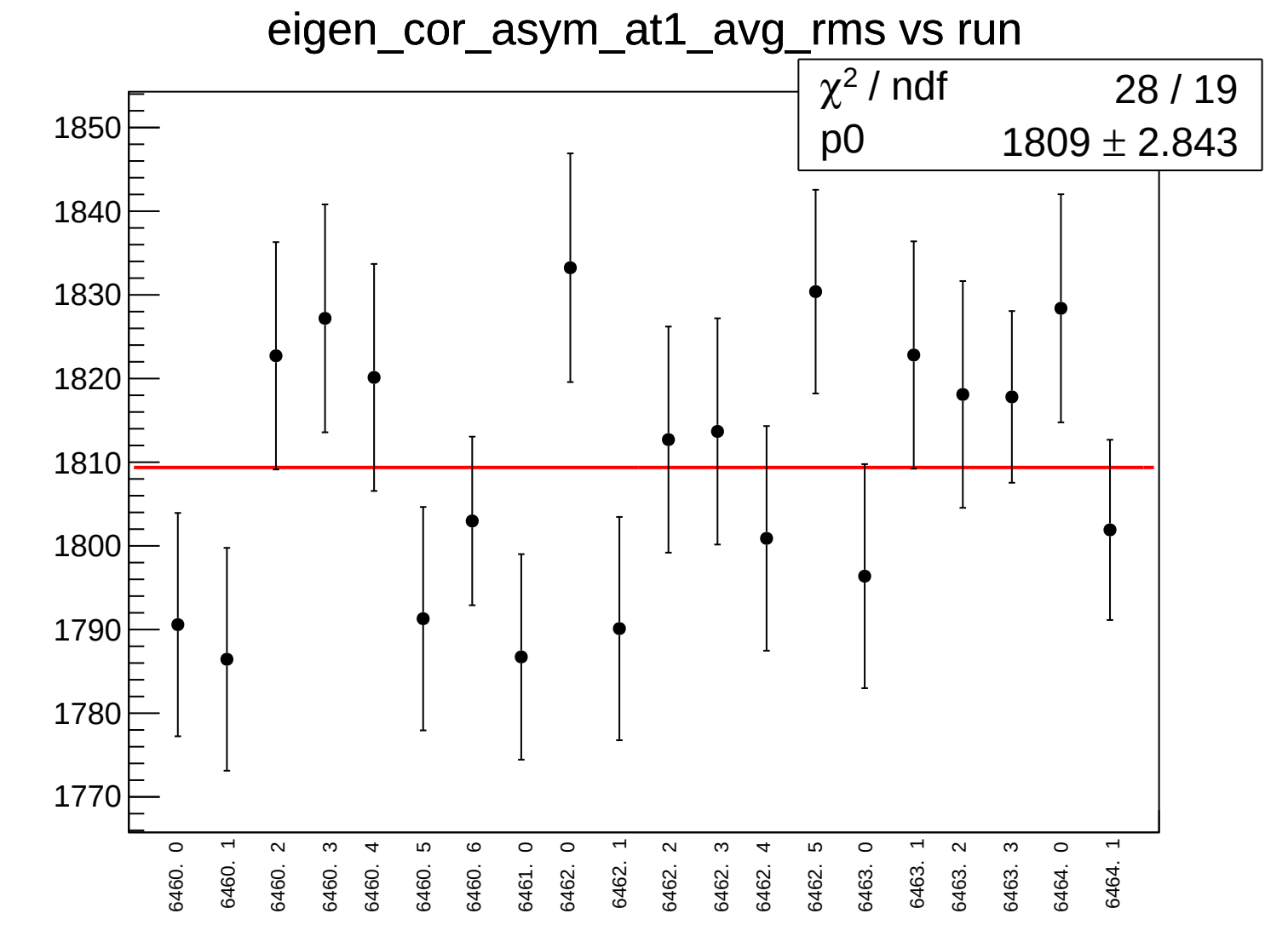

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 10.64 / 19
p0 2117 ± 2177
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.62
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

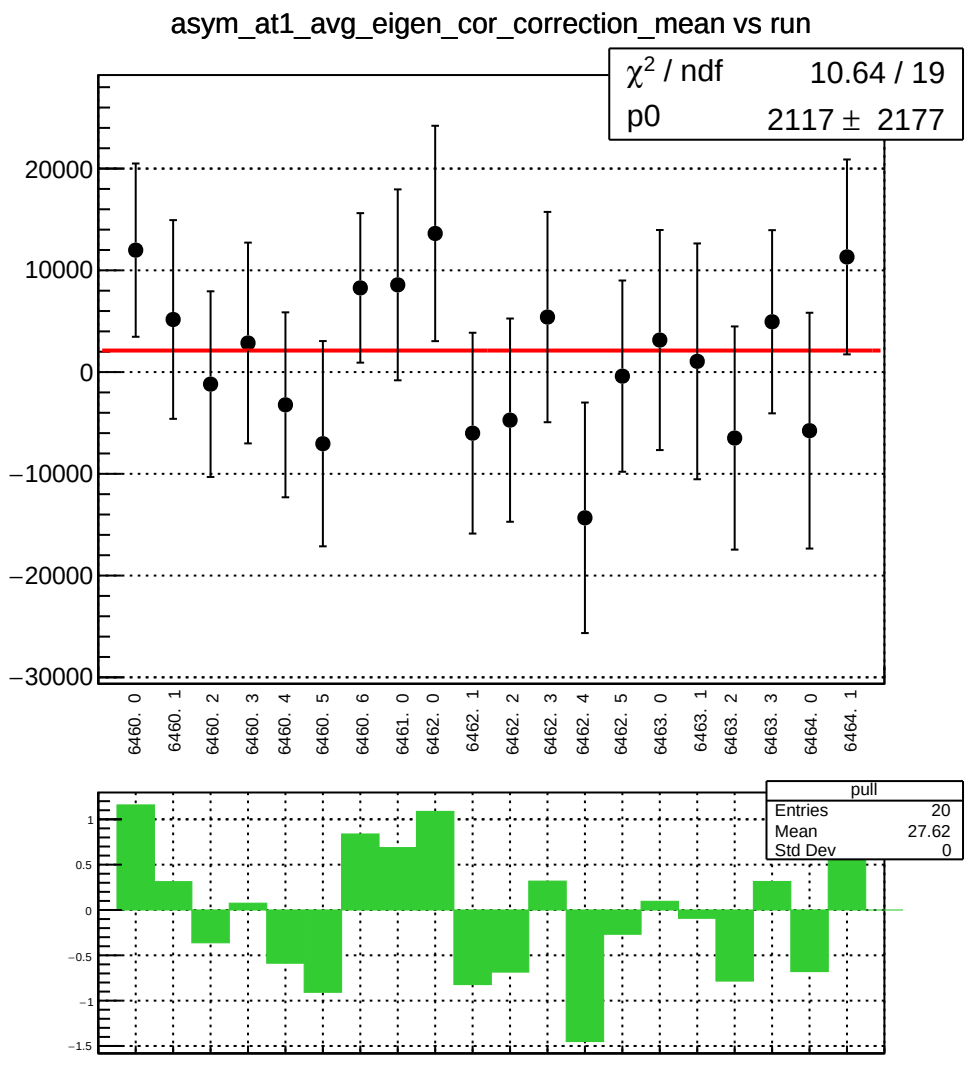

pull1D
Entries 20
Mean −0.03943
Std Dev 0.7285
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

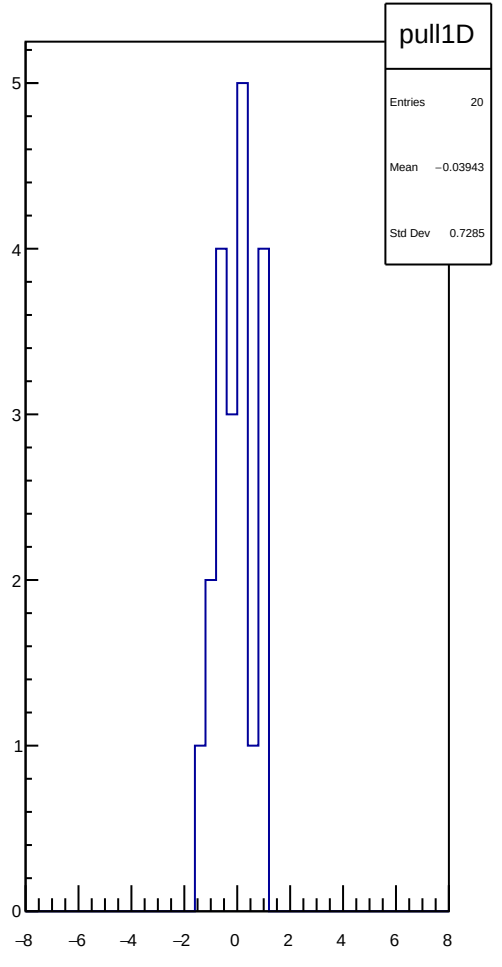

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 3458 / 19
p0 975.5 ± 1.539
1150
1100
1050
1000
950
900
850
800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

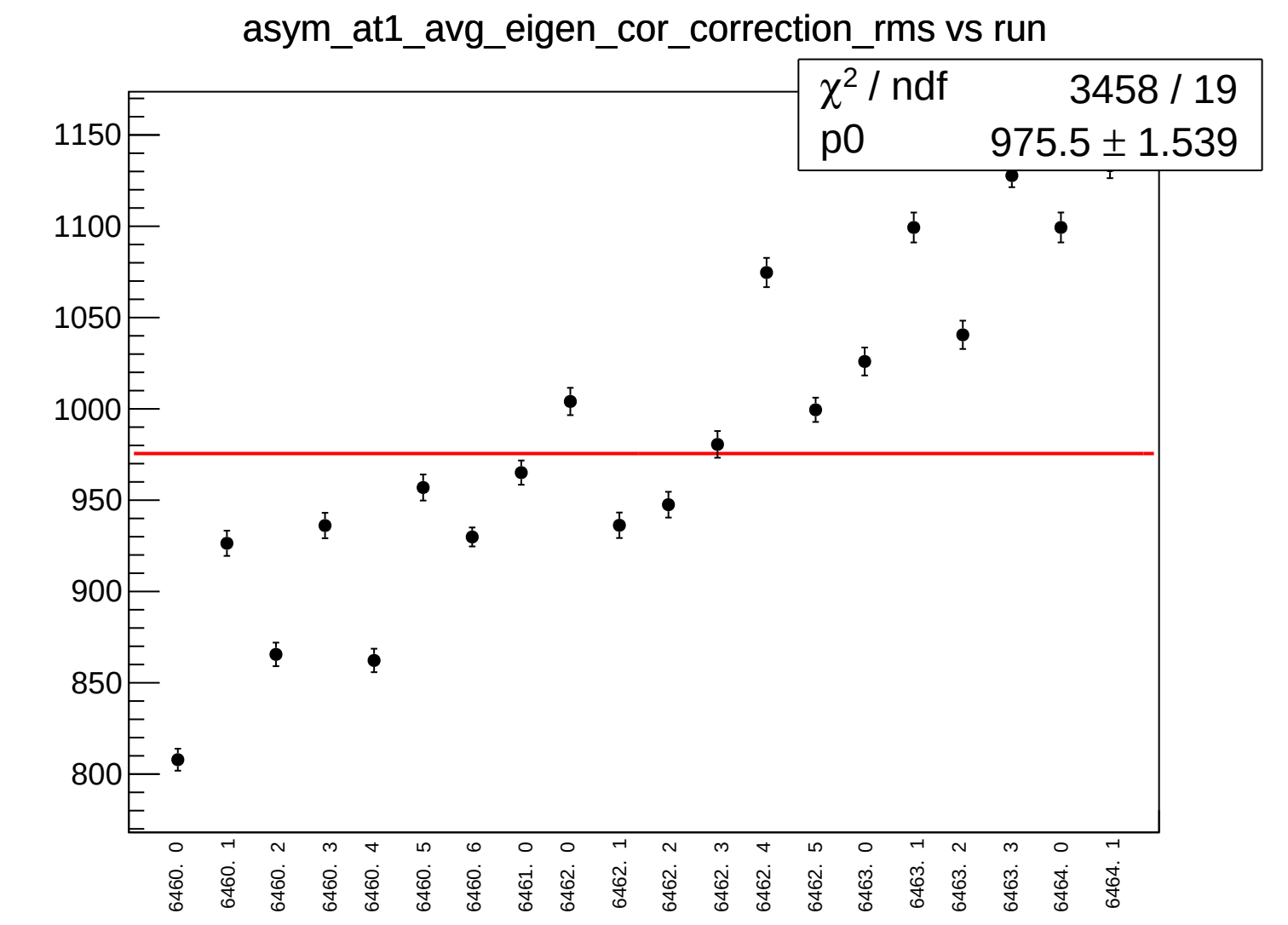

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 25.65 / 19
p0 −2046 ± 4020
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 74.16
Std Dev 0
2
1
0
−1
−2
−3

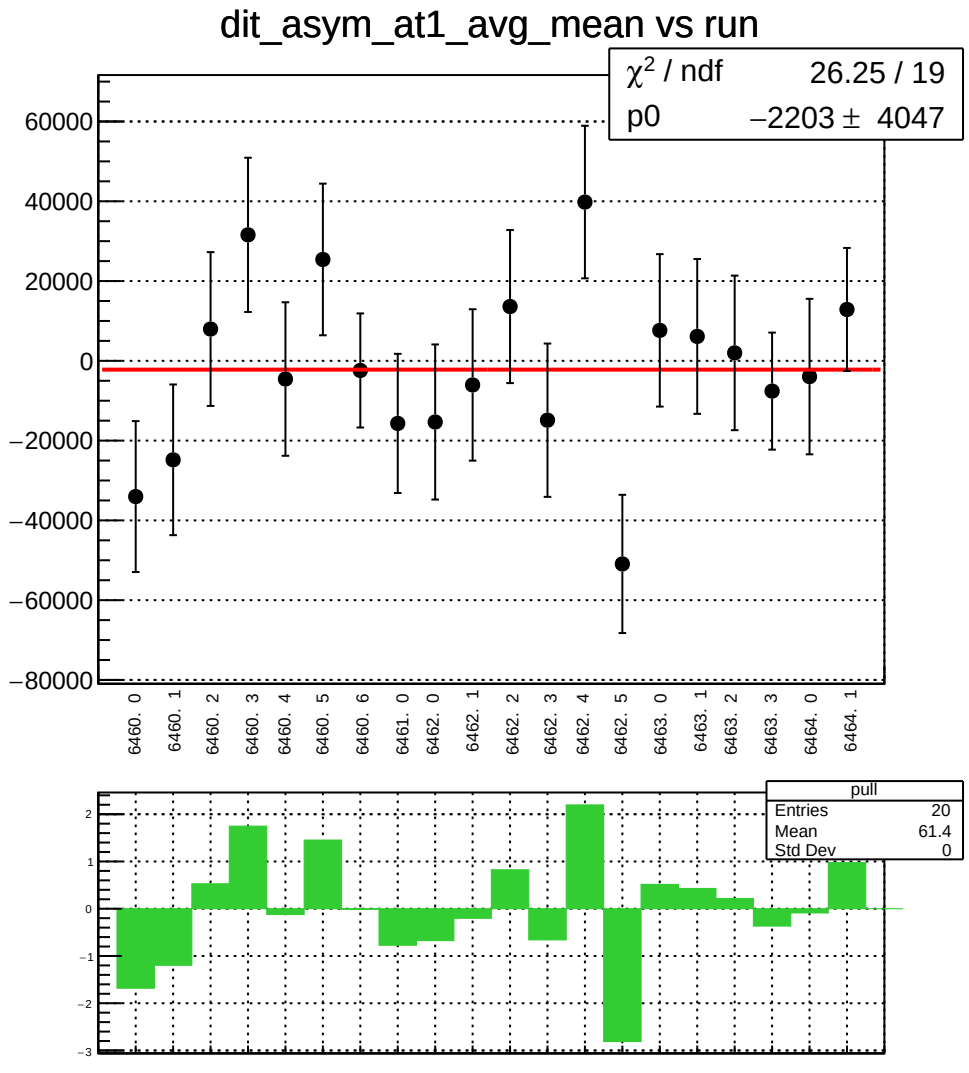

pull1D
Entries 20
Mean 0.01169
Std Dev 1.133
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

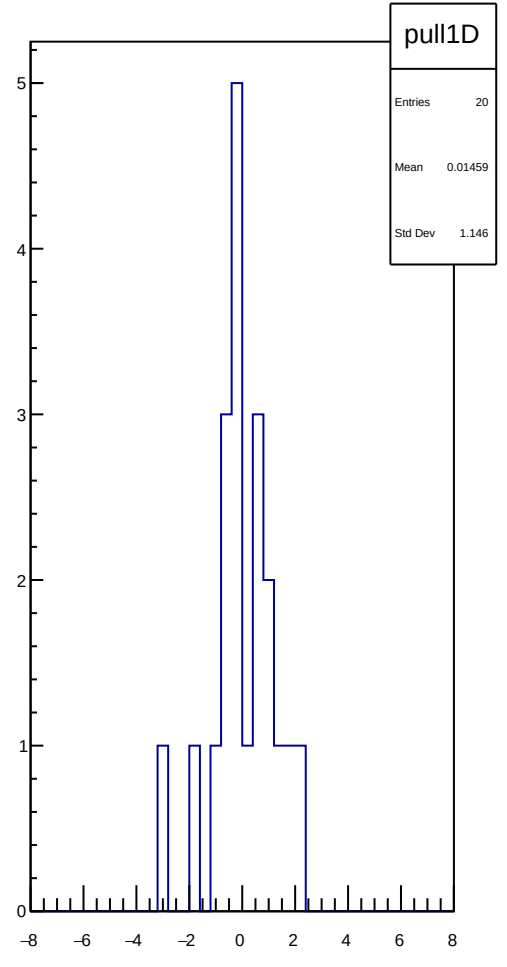

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 28 / 19
p0 1809 ± 2.843
1850
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

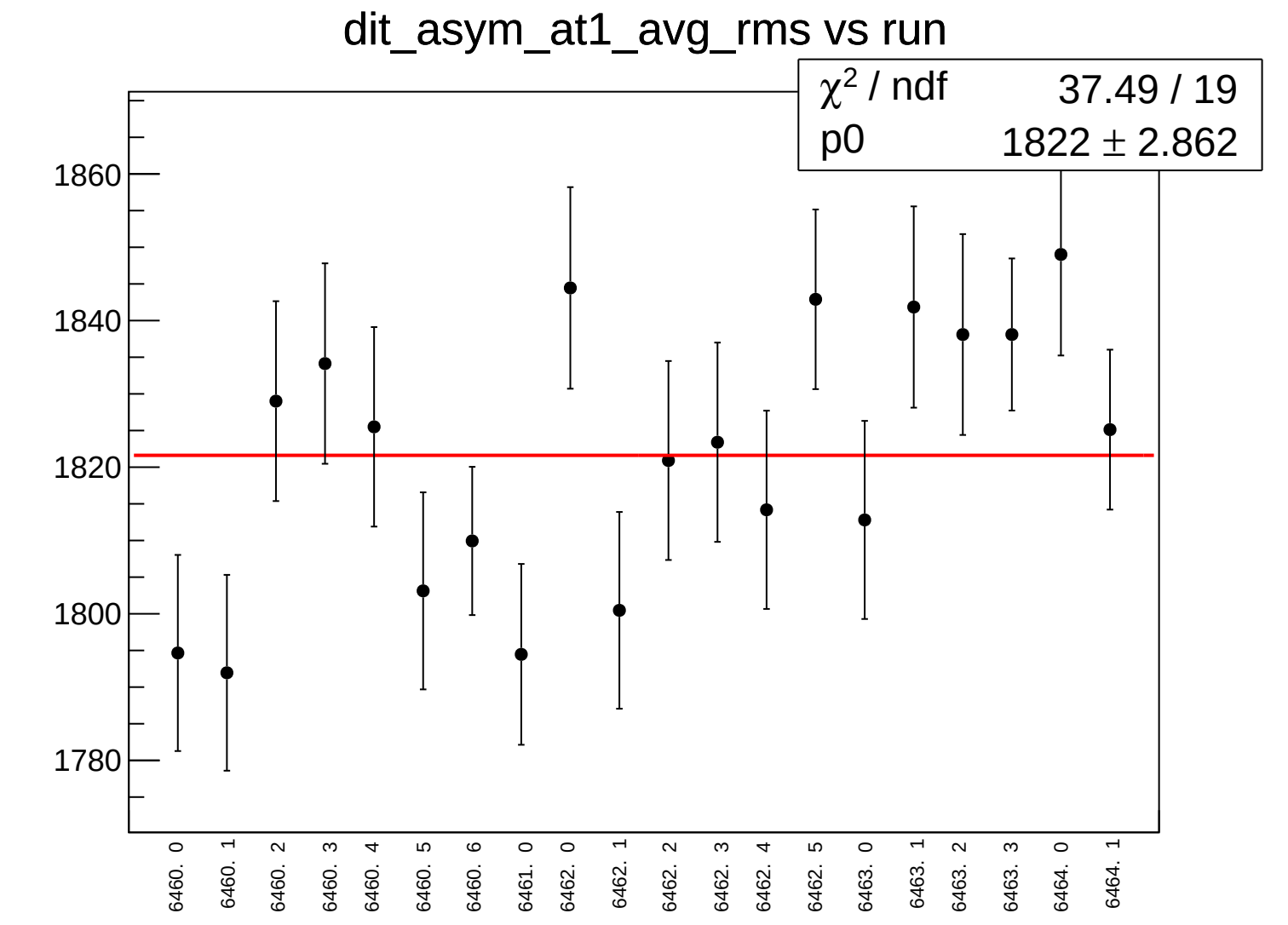

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.64 / 19
p0 2117 ± 2177
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.62
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

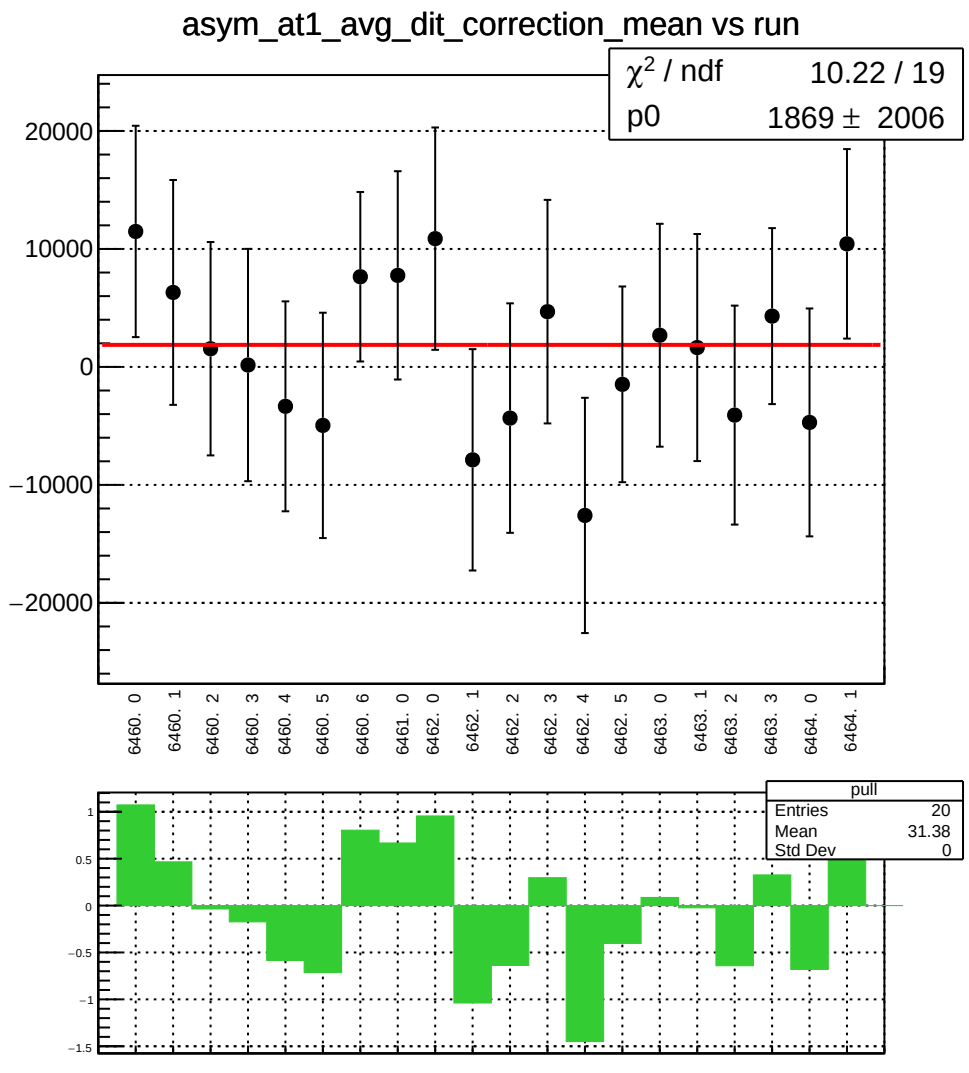

pull1D
Entries 20
Mean −0.03943
Std Dev 0.7285
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

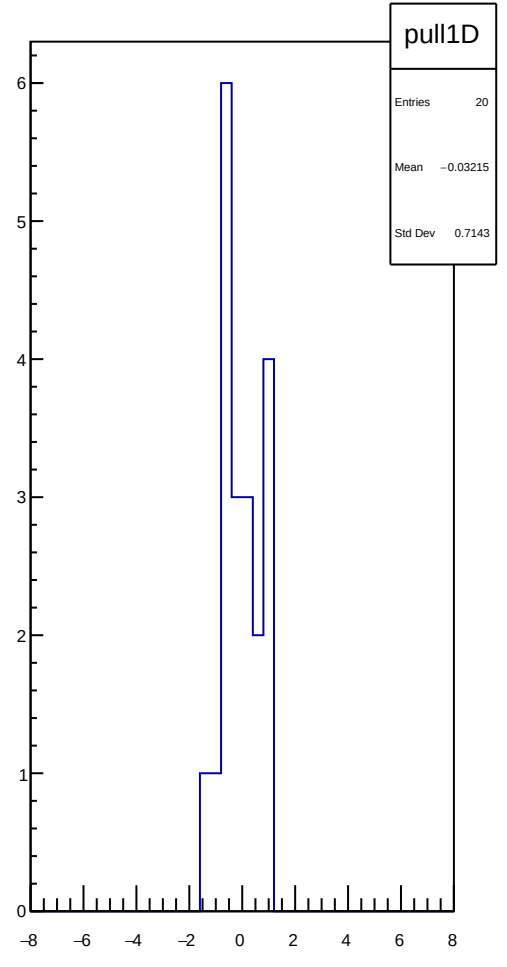

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3458 / 19
p0 975.5 ± 1.539
1150
1100
1050
1000
950
900
850
800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

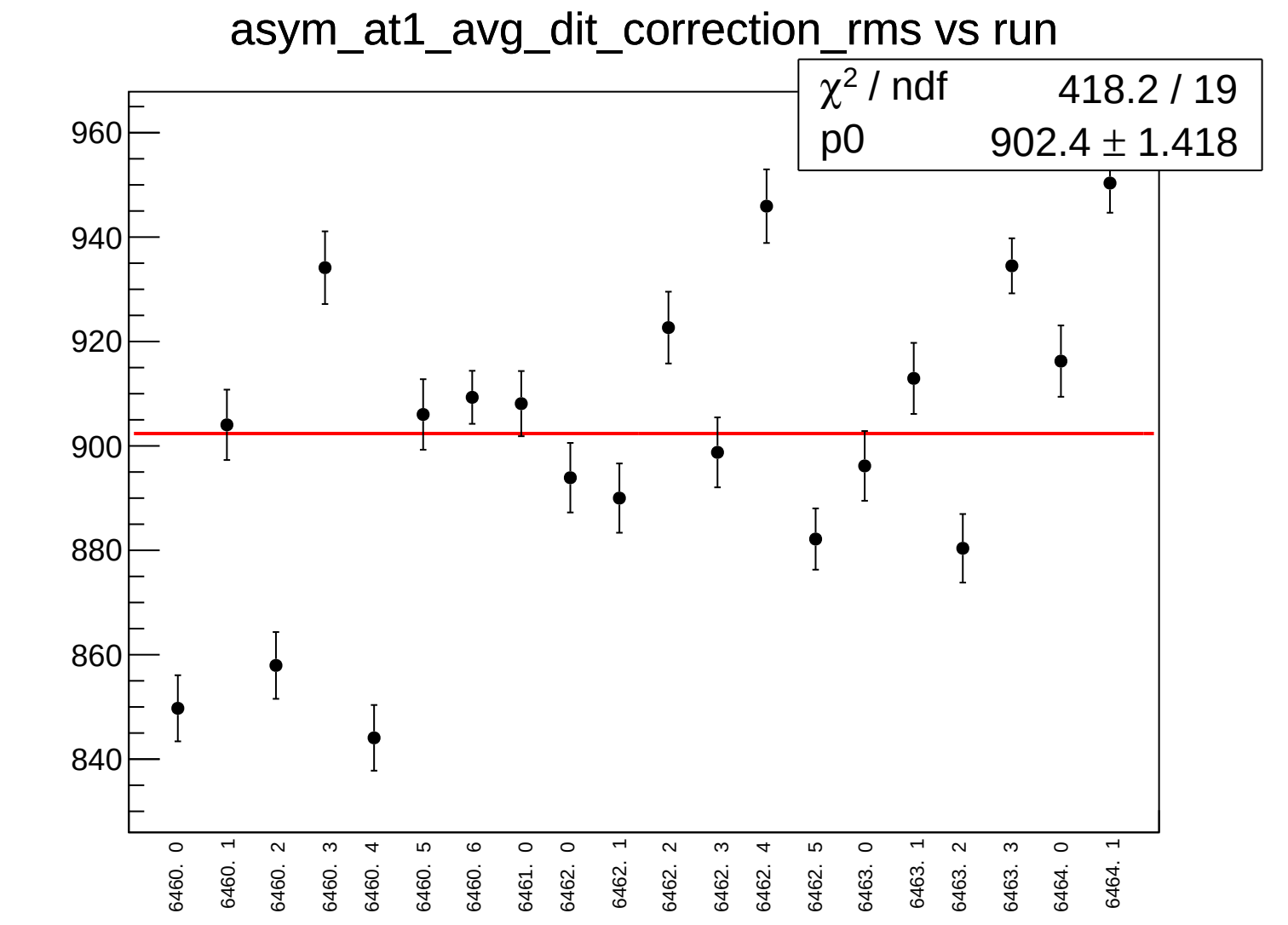

dit_asym_at1_avg_mean vs run
χ² / ndf 26.25 / 19
p0 −2203 ± 4047
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 61.4
Std Dev 0
2
1
0
−1
−2
−3

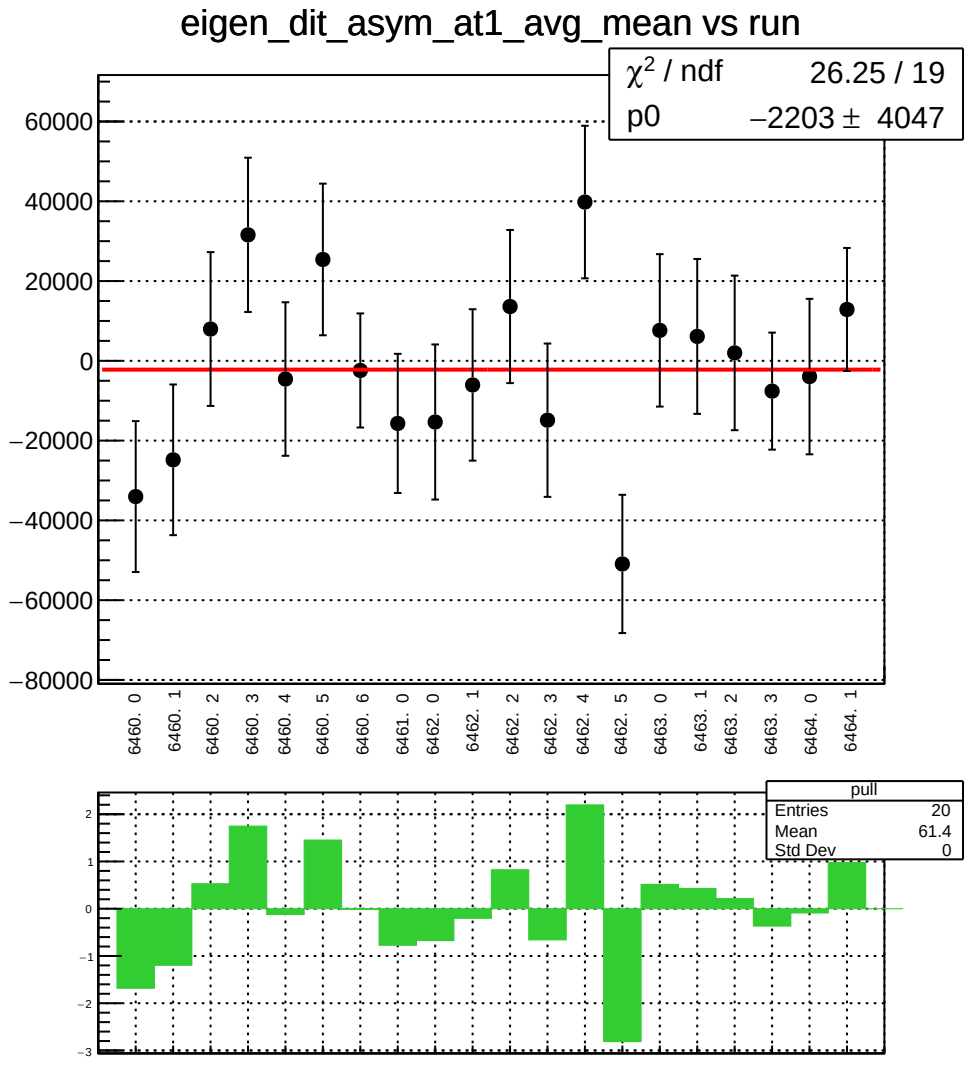

pull1D
Entries 20
Mean 0.01459
Std Dev 1.146
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

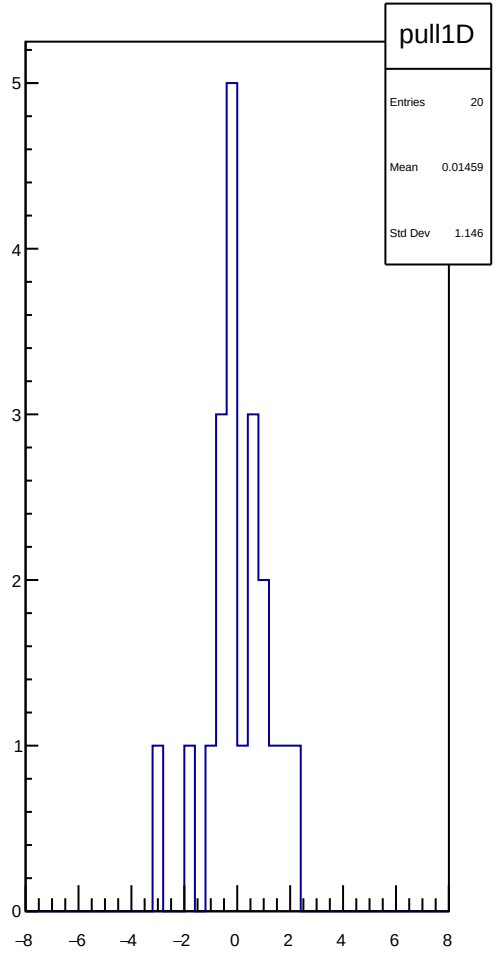

dit_asym_at1_avg_rms vs run
χ² / ndf 37.49 / 19
p0 1822 ± 2.862
1860
1840
1820
1800
1780
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

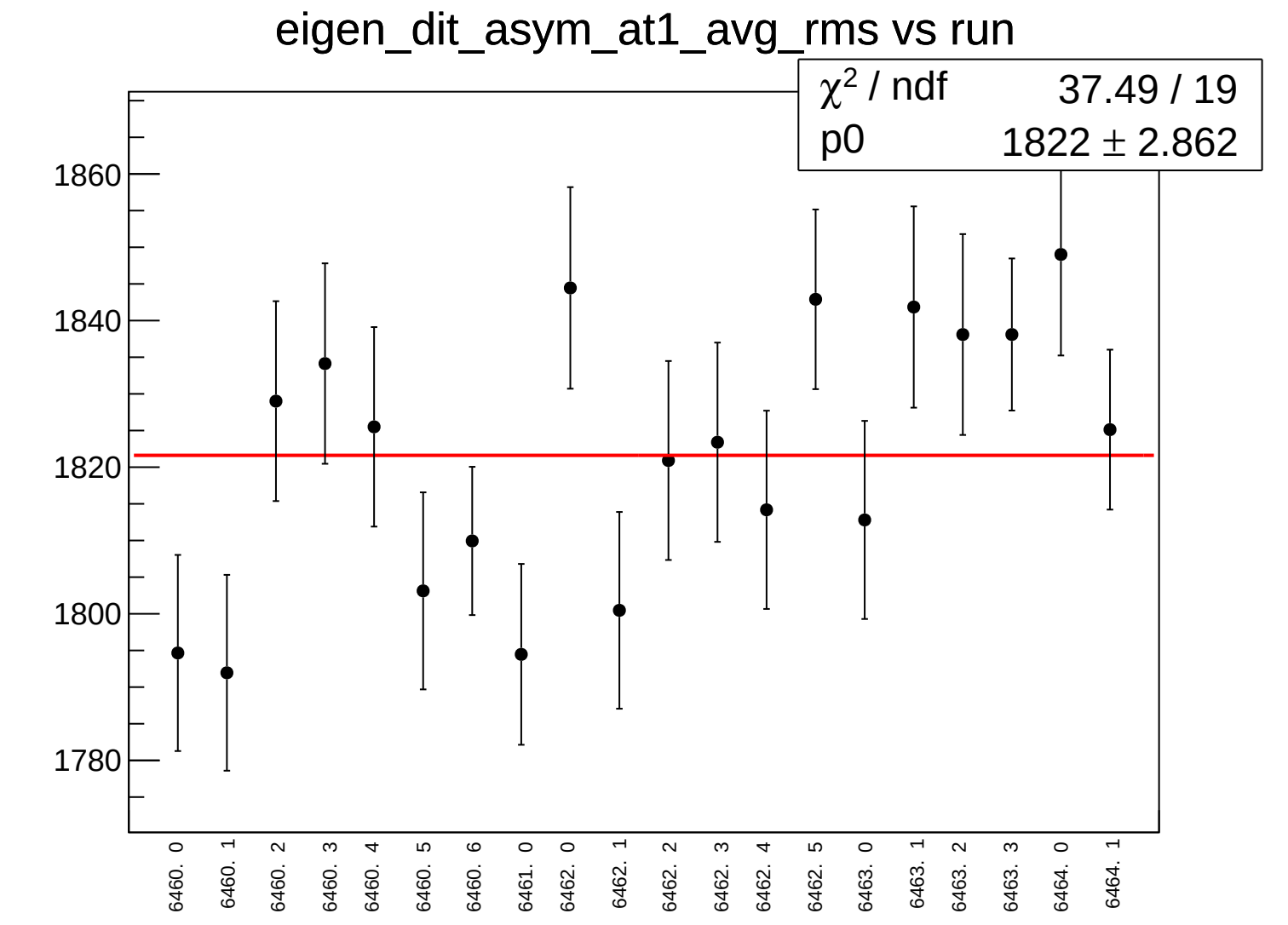

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 10.22 / 19
p0 1869 ± 2006
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.38
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

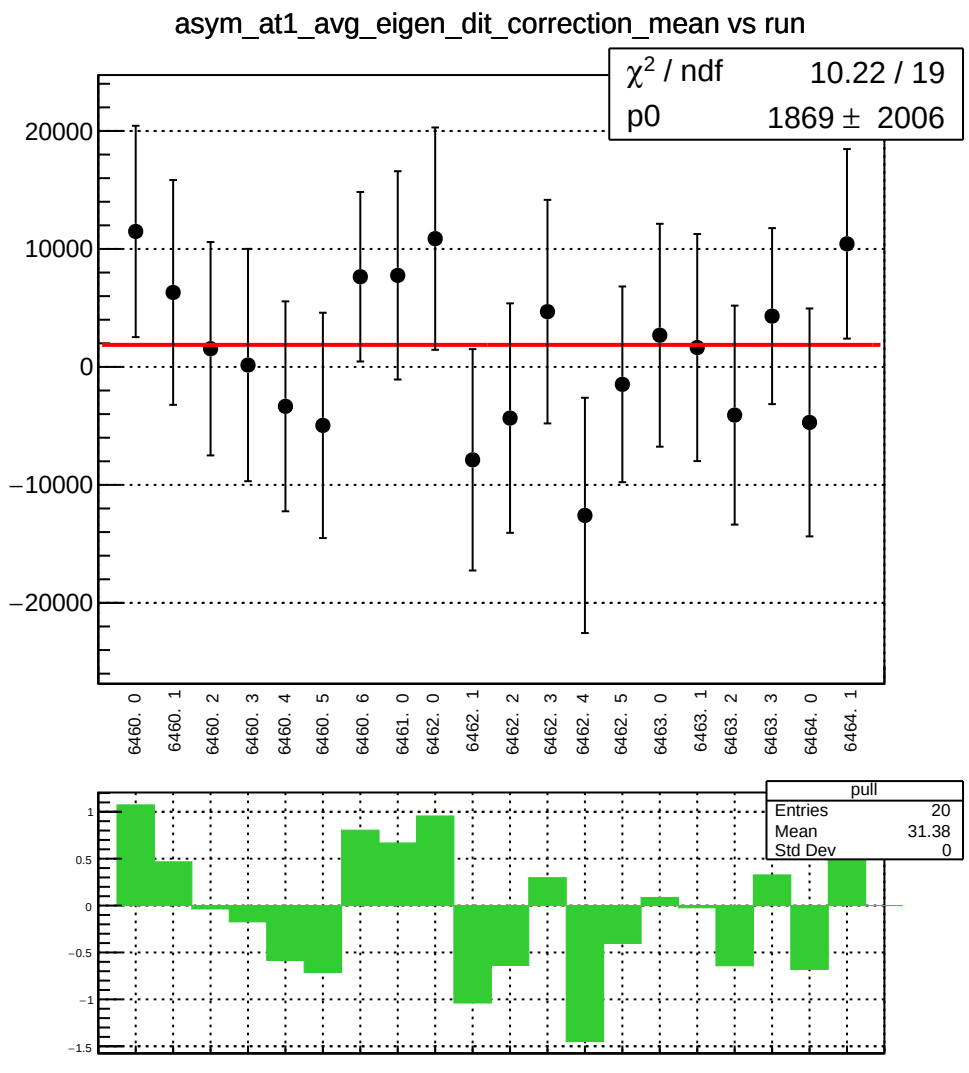

pull1D
Entries 20
Mean −0.03215
Std Dev 0.7143
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

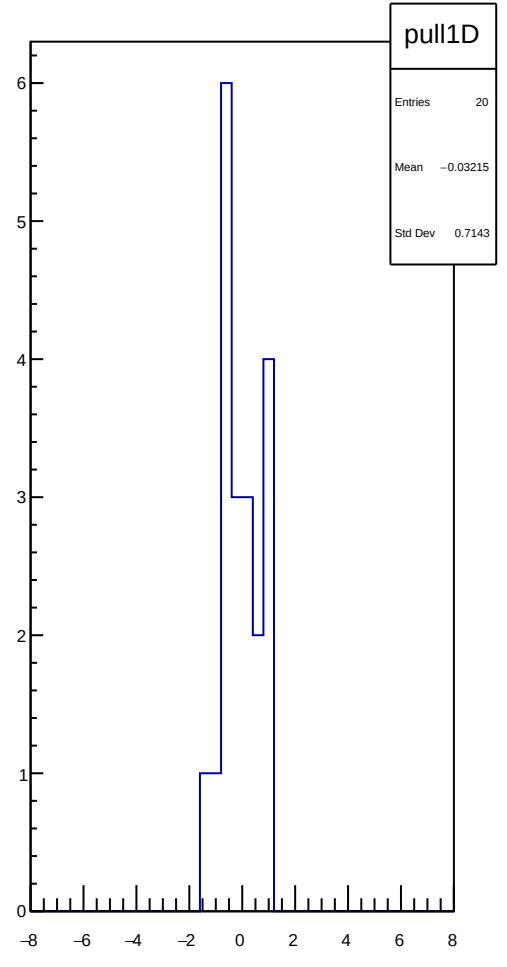

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 418.2 / 19
p0 902.4 ± 1.418
960
940
920
900
880
860
840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

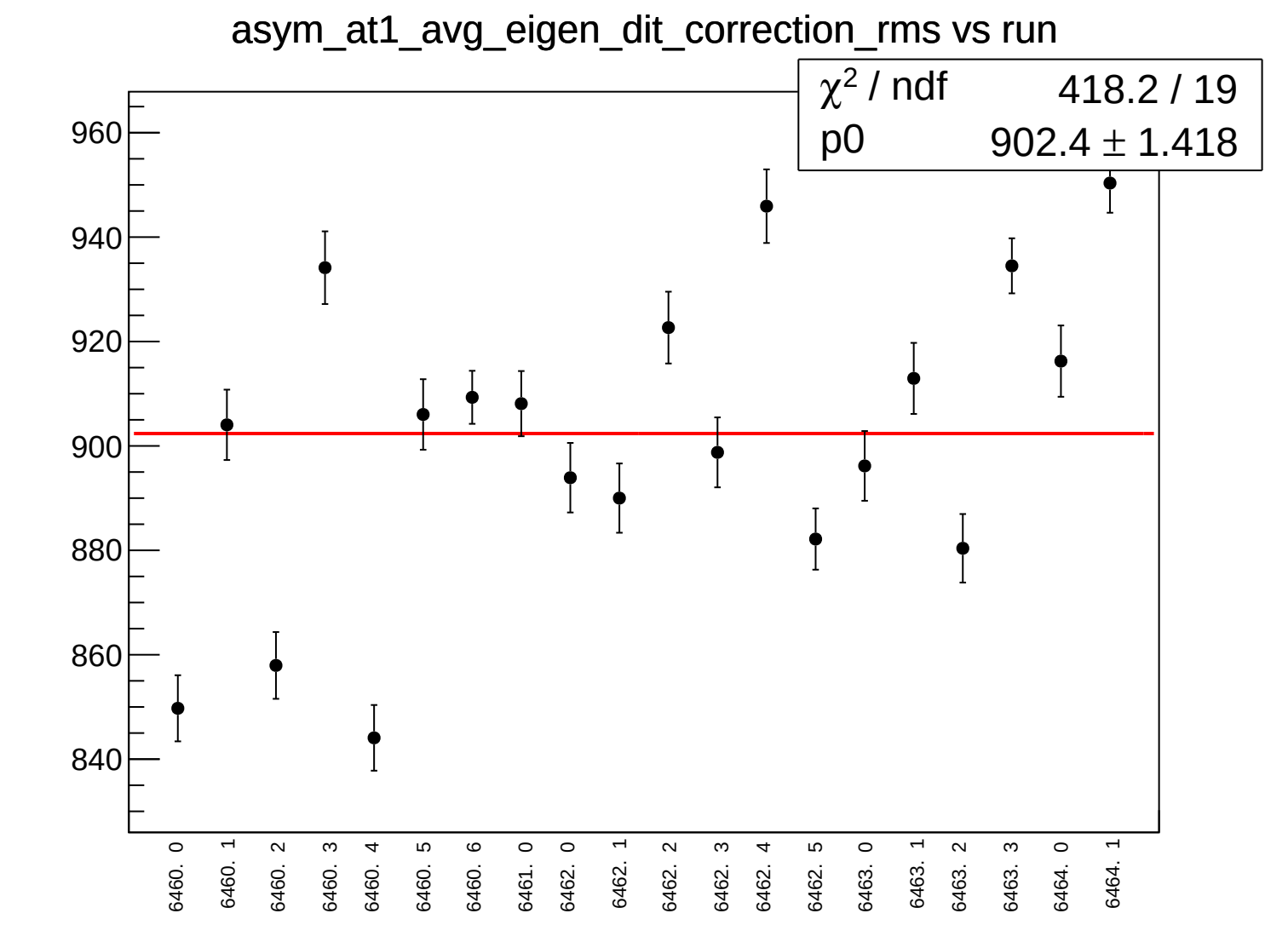

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 26.25 / 19
p0 −2203 ± 4047
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 61.4
Std Dev 0
2
1
0
−1
−2
−3

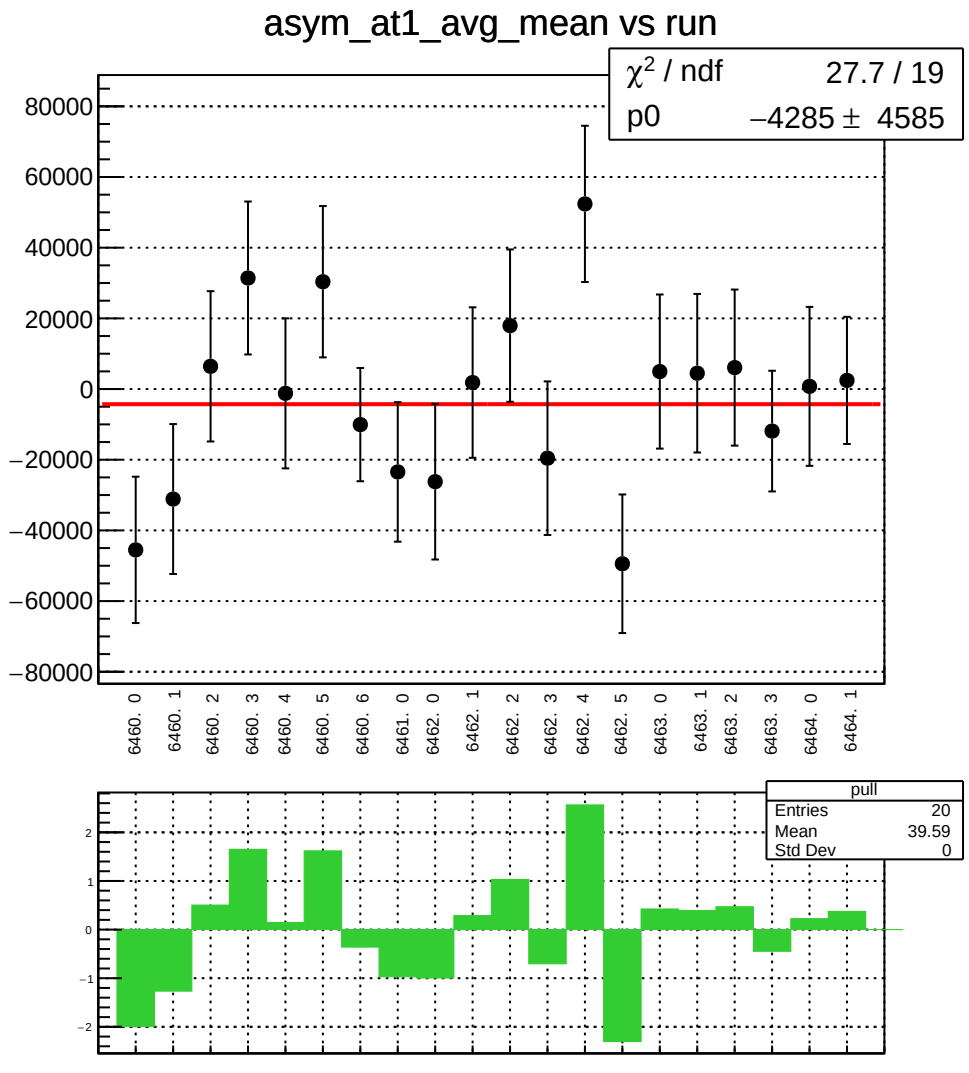

pull1D
Entries 20
Mean 0.01459
Std Dev 1.146
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

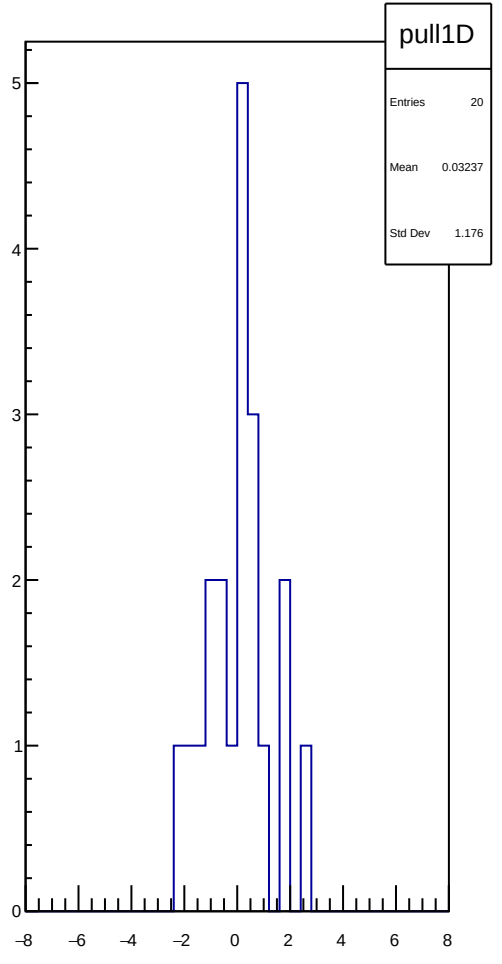

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 37.49 / 19
p0 1822 ± 2.862
1860
1840
1820
1800
1780
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

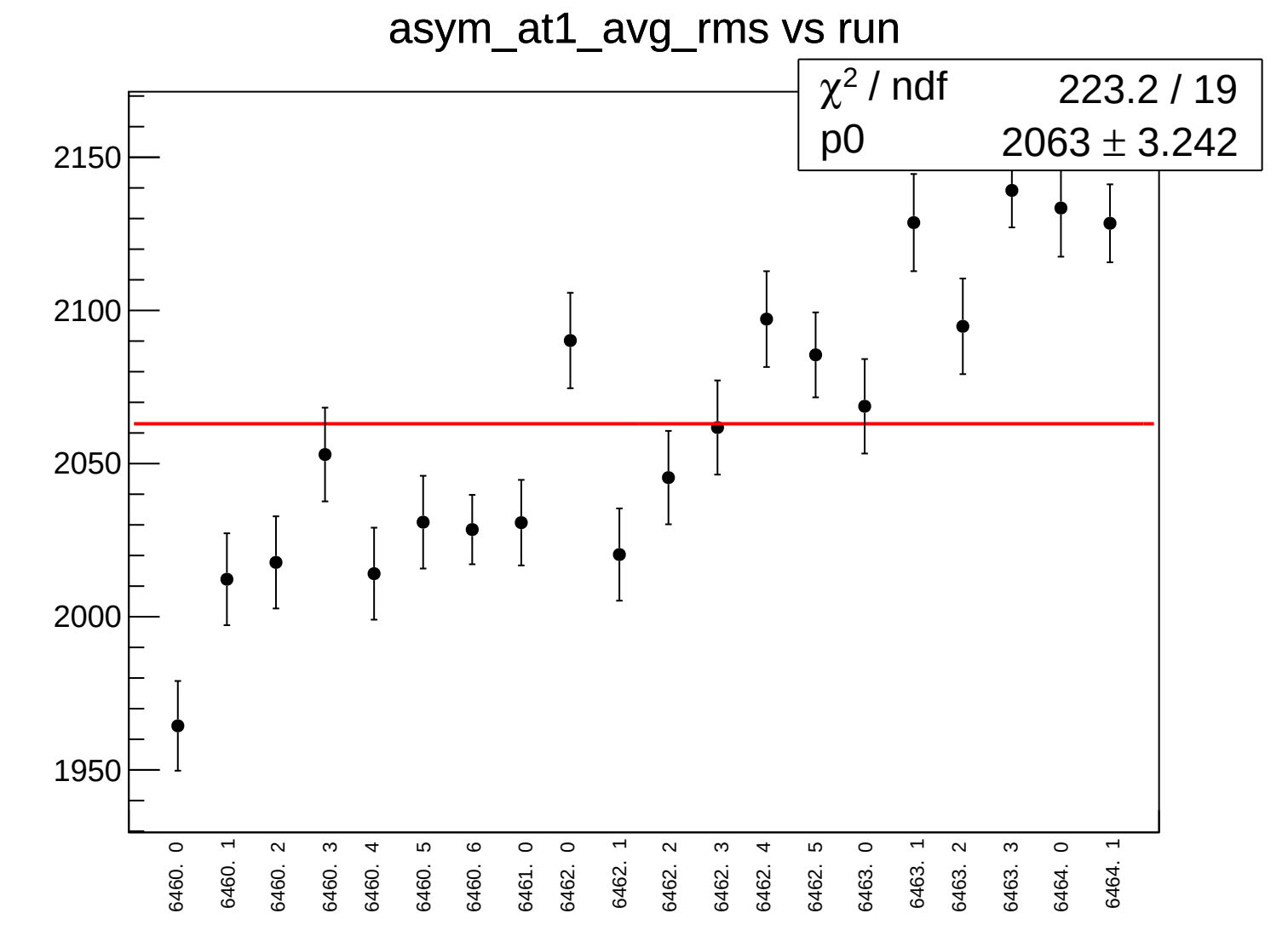

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.22 / 19
p0 1869 ± 2006
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.38
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

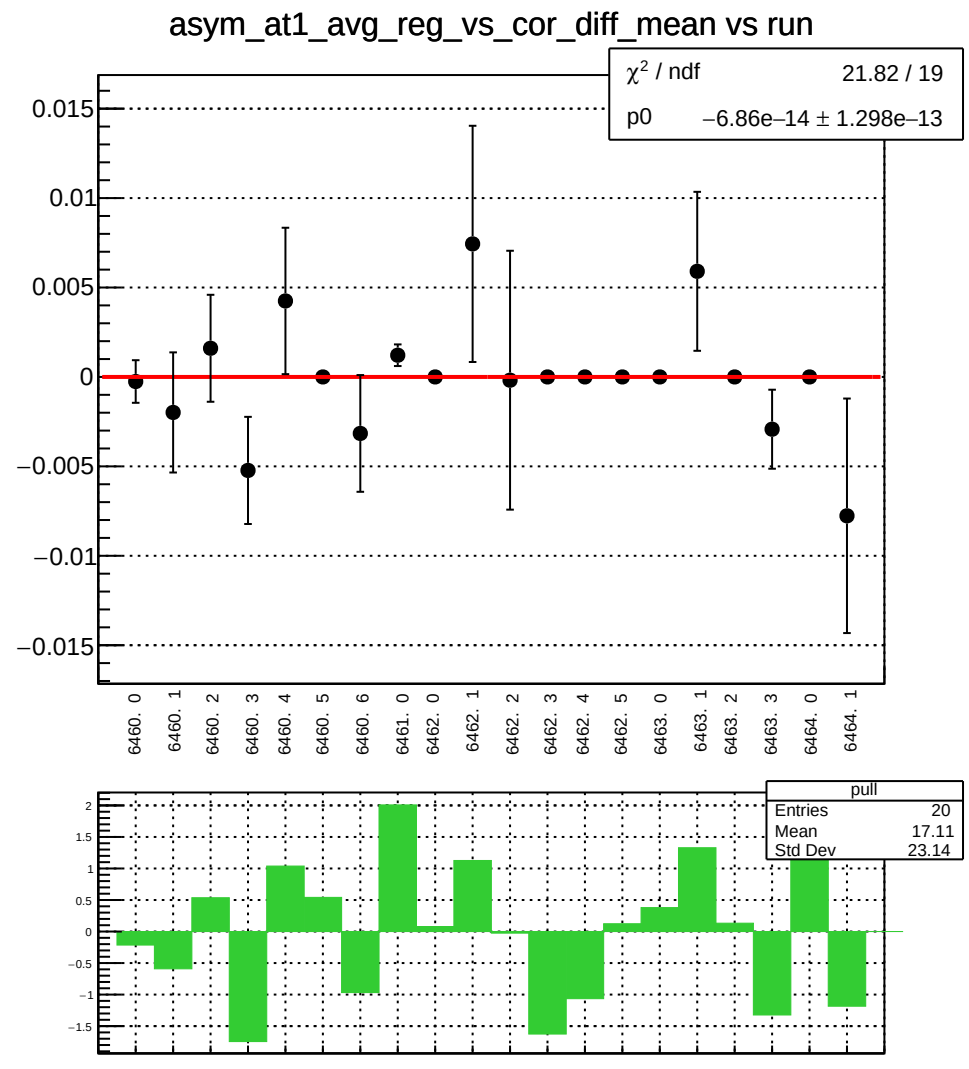

pull1D
Entries 20
Mean −0.03215
Std Dev 0.7143
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

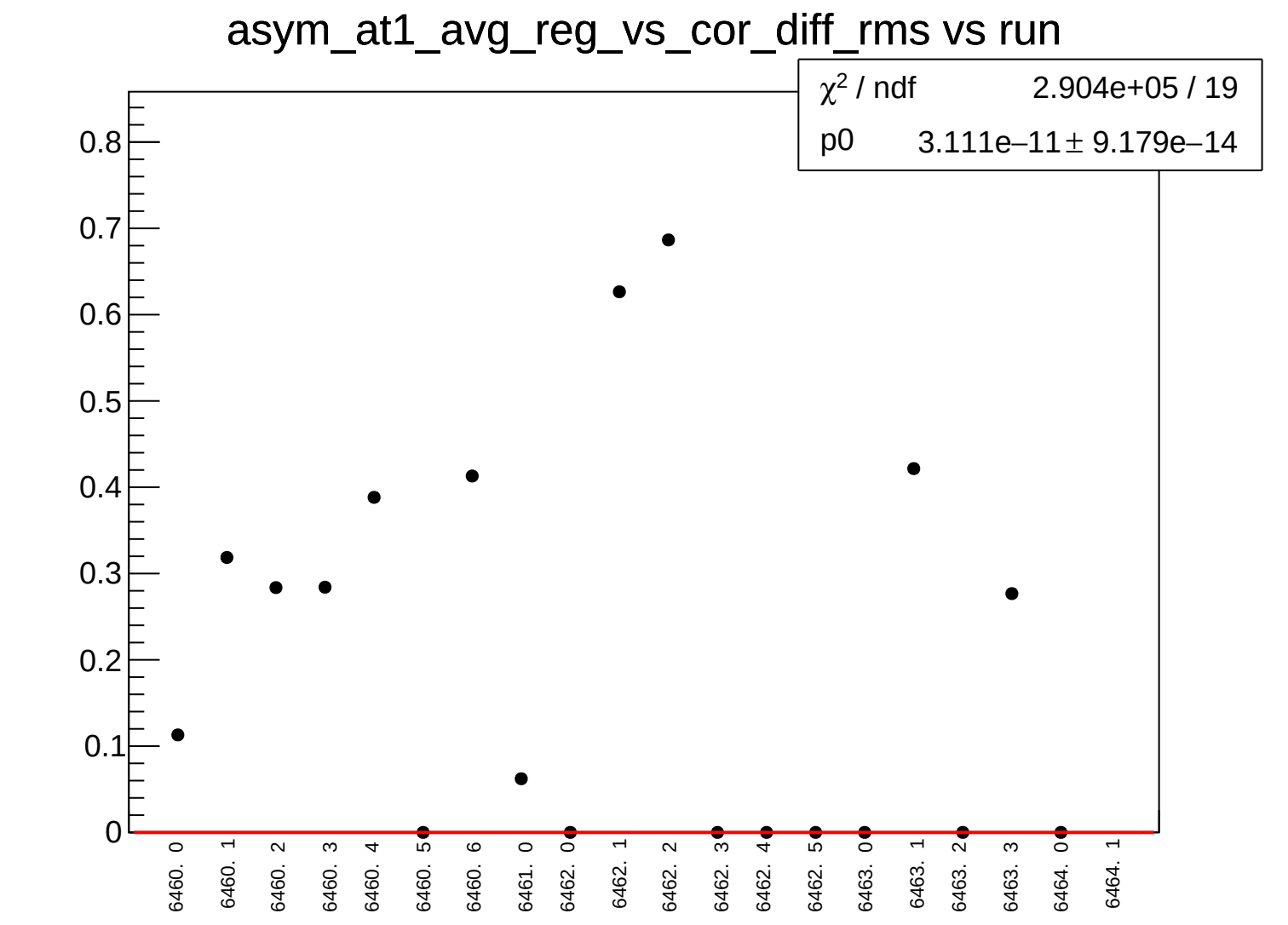

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 418.2 / 19
p0 902.4 ± 1.418
960
940
920
900
880
860
840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

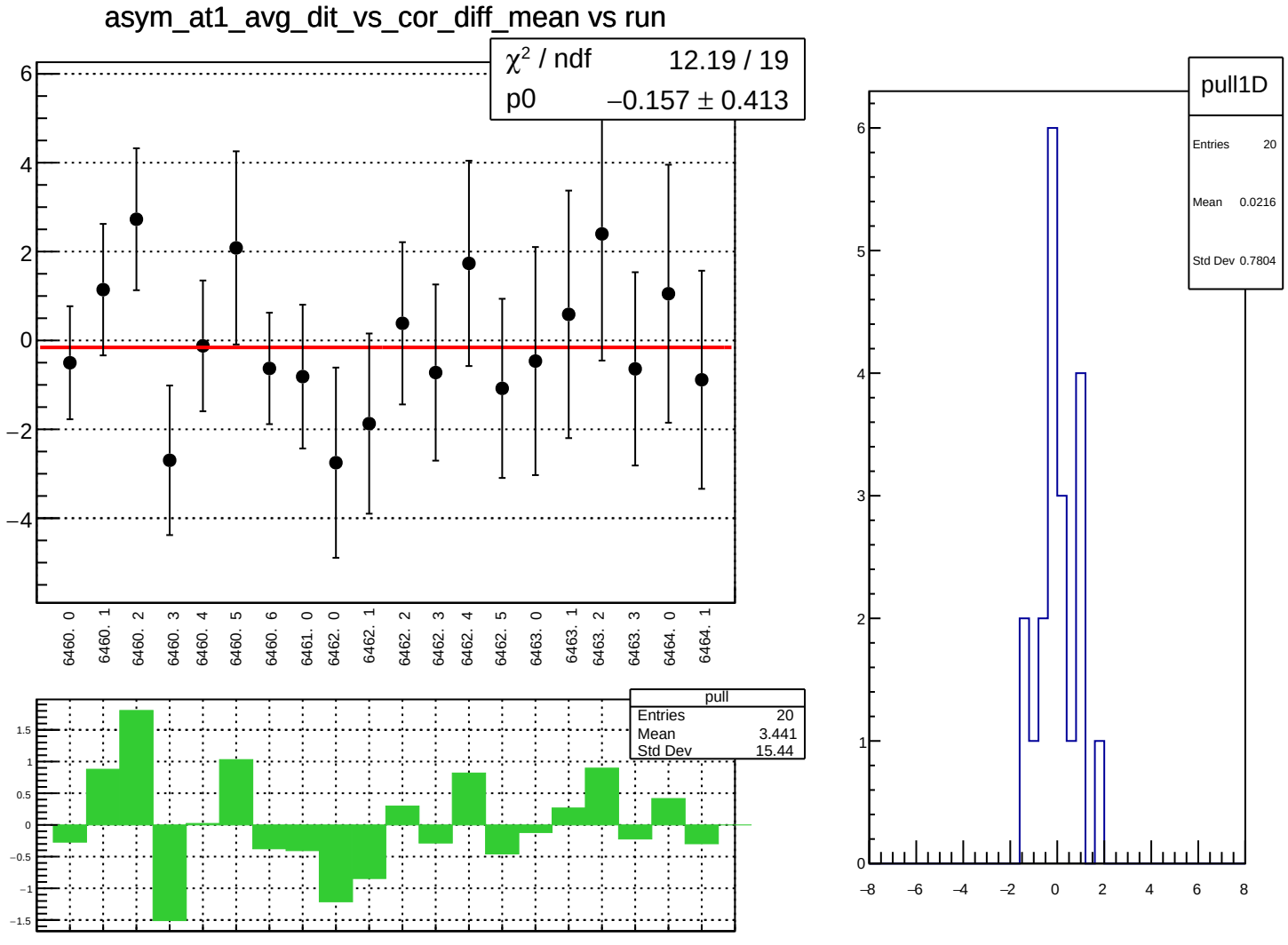

asym_at1_avg_mean vs run
χ² / ndf 27.7 / 19
p0 −4285 ± 4585
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.59
Std Dev 0
2
1
0
−1
−2

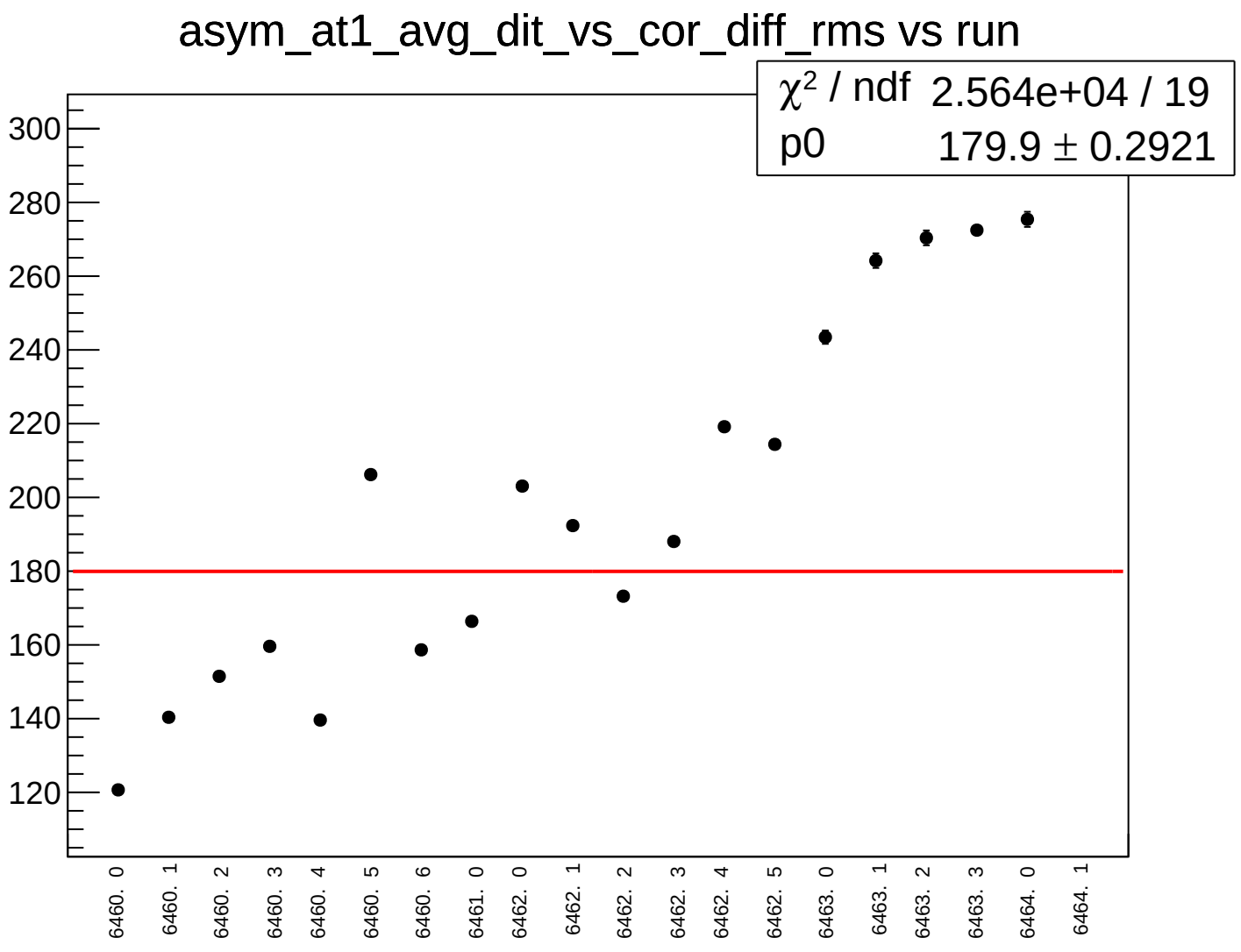

pull1D
Entries 20
Mean 0.03237
Std Dev 1.176
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

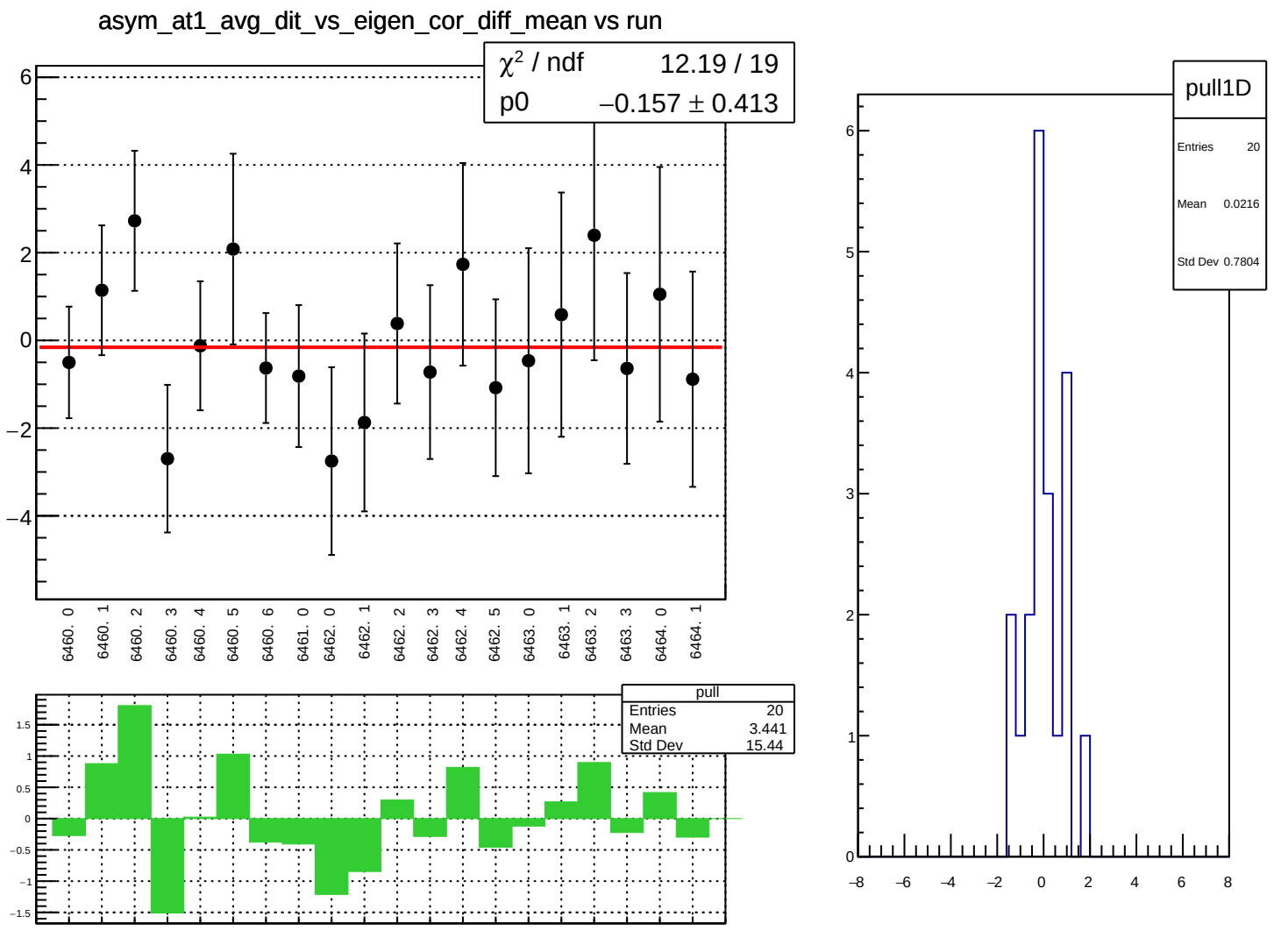

asym_at1_avg_rms vs run
χ² / ndf 223.2 / 19
p0 2063 ± 3.242
2150
2100
2050
2000
1950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

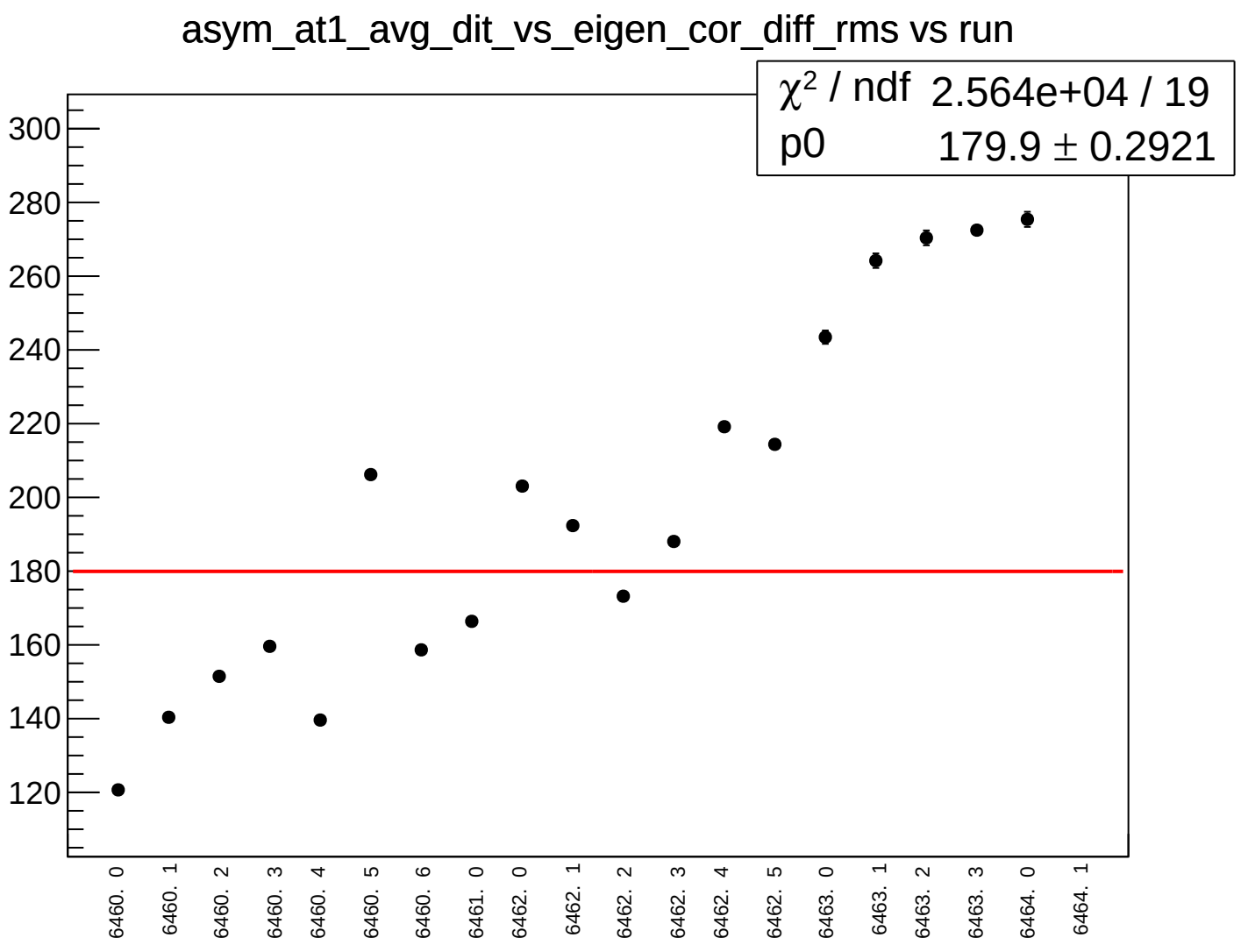

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.82 / 19
p0 −6.86e−14 ± 1.298e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 17.11
Std Dev 23.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.009155
Std Dev 1.044
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

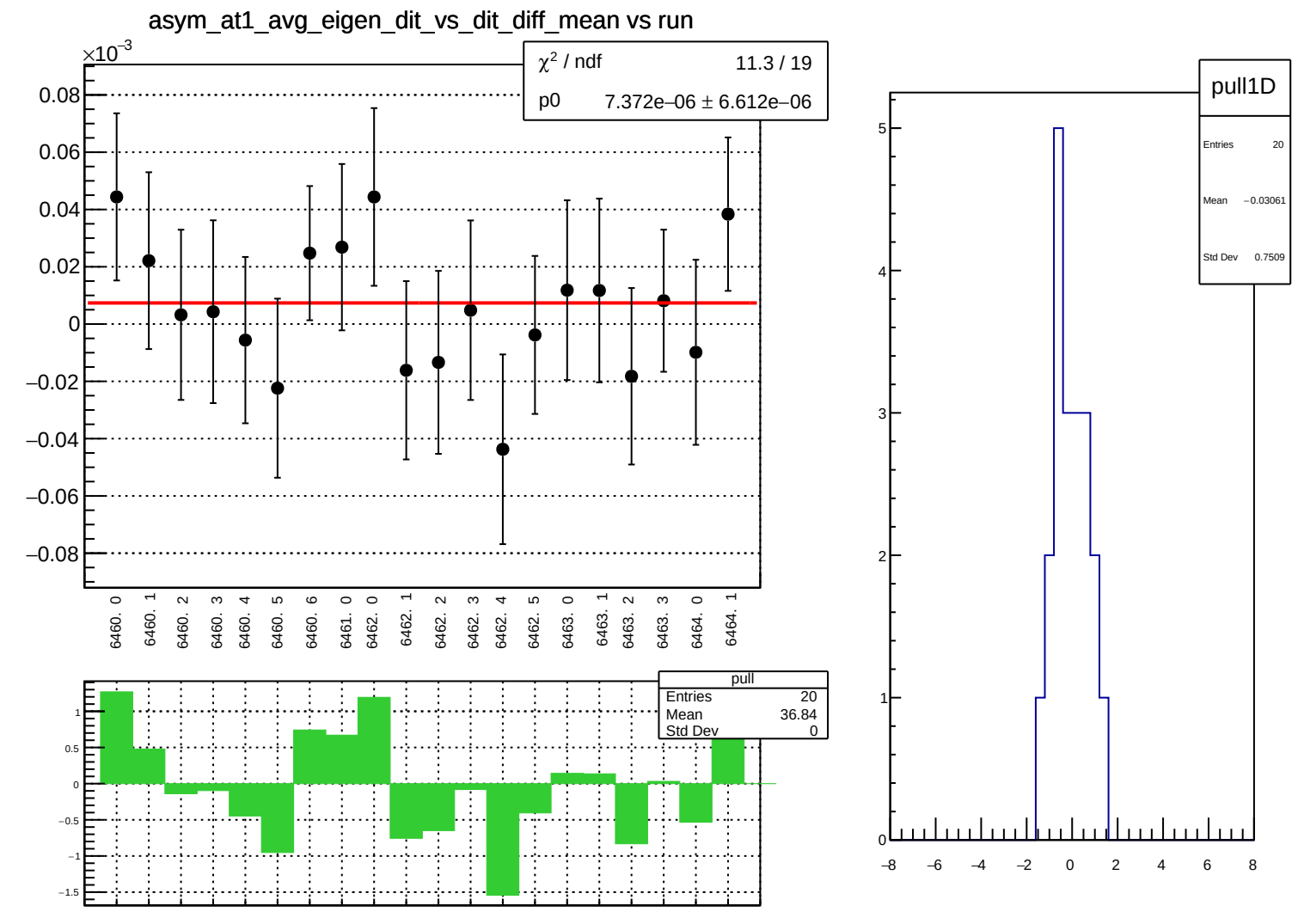

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.904e+05 / 19
p0 3.111e−11 ± 9.179e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

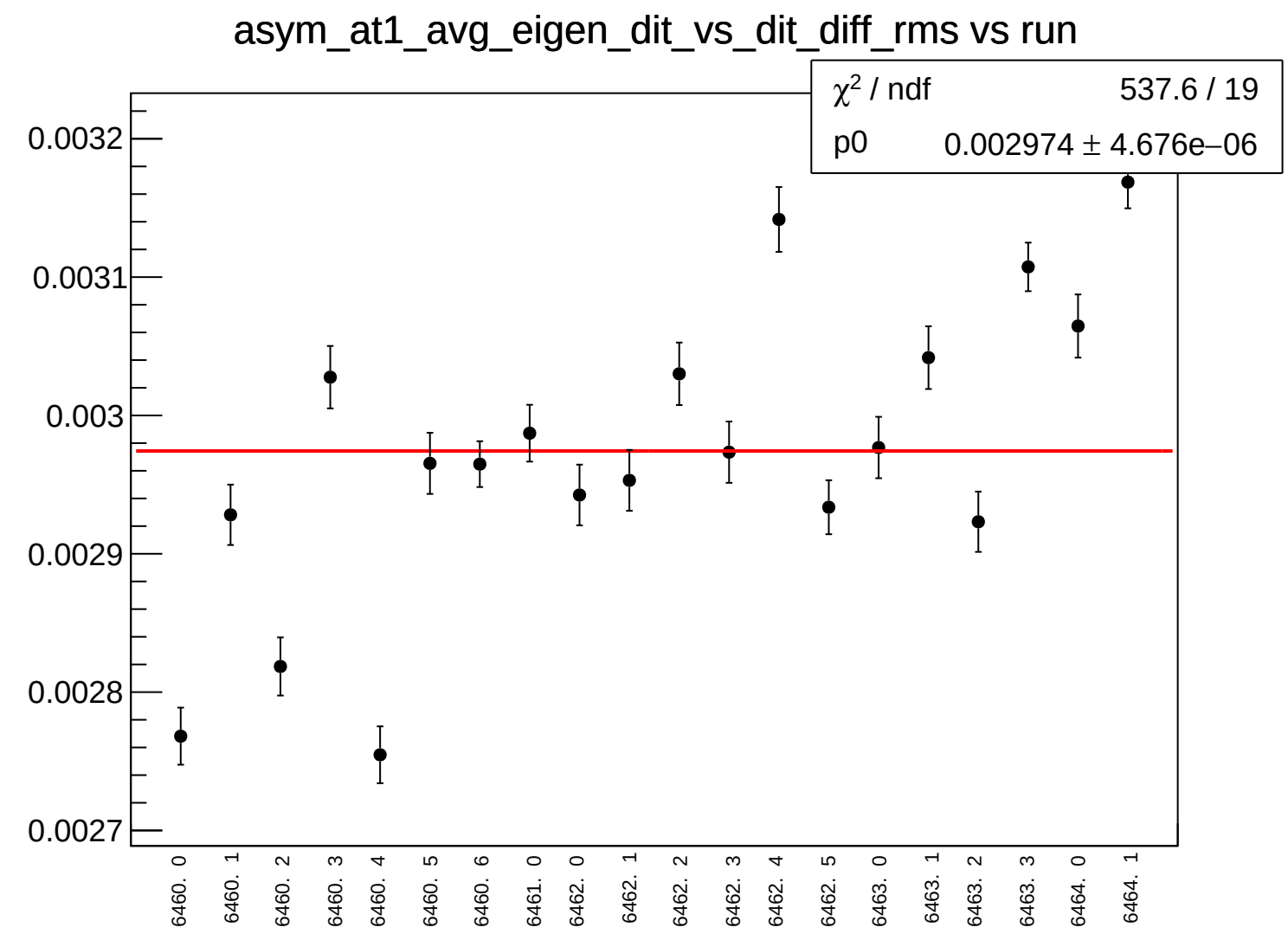

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 12.19 / 19
p0 −0.157 ± 0.413
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.441
Std Dev 15.44
pull1D
Entries 20
Mean 0.0216
Std Dev 0.7804


asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.564e+04 / 19
p0 179.9 ± 0.2921
300
280
260
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

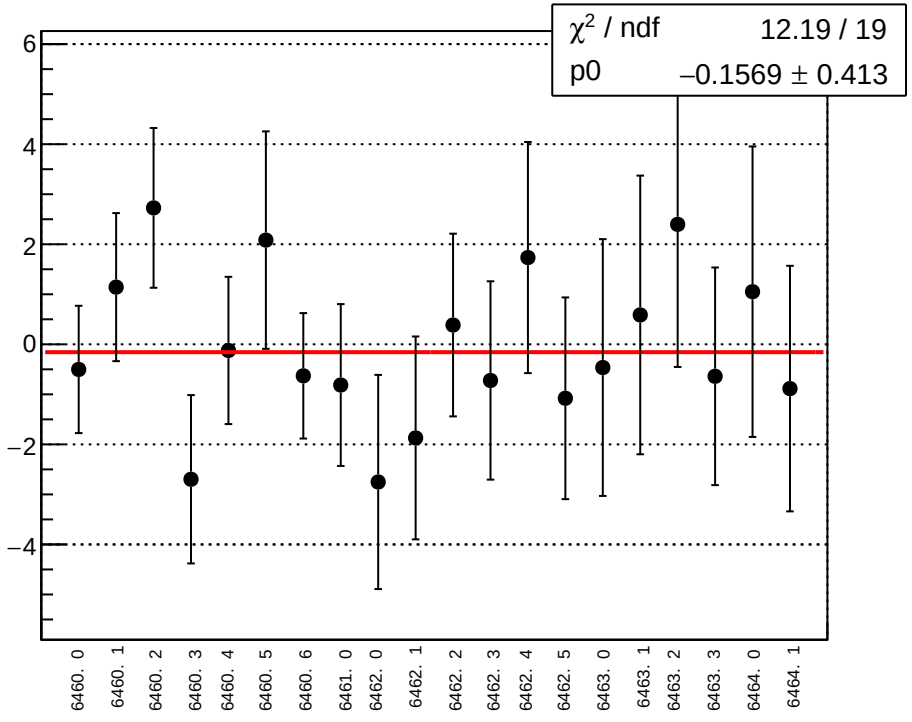

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.19 / 19
p0 −0.157 ± 0.413
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.441
Std Dev 15.44
pull1D
Entries 20
Mean 0.0216
Std Dev 0.7804

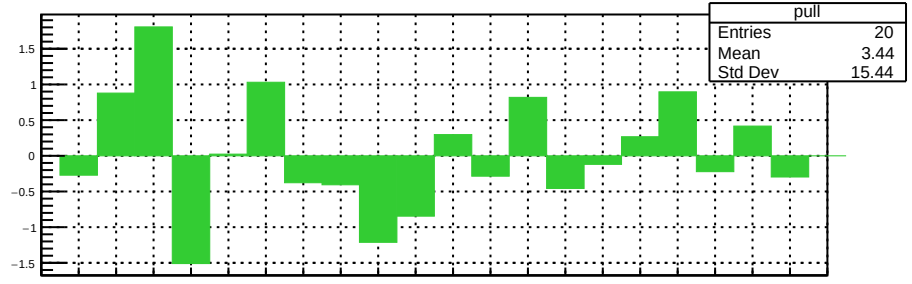

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.564e+04 / 19
p0 179.9 ± 0.2921
300
280
260
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

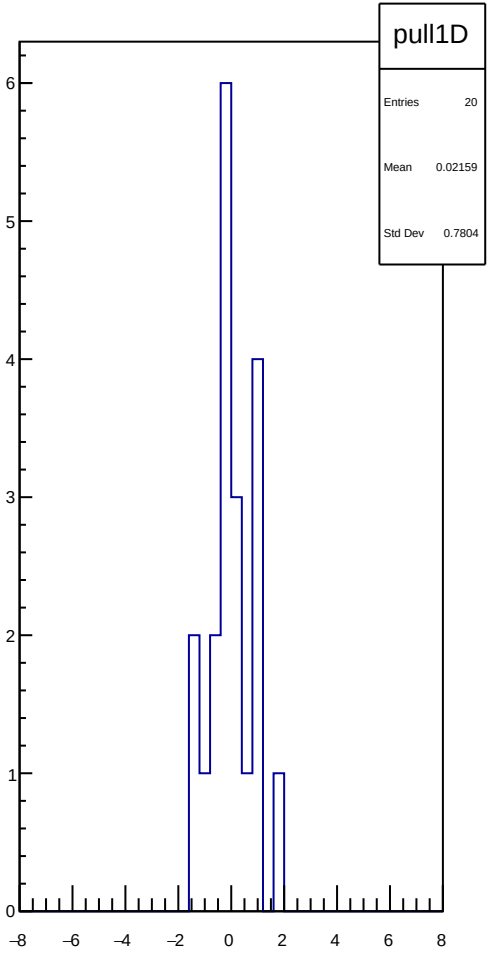

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.3 / 19
p0 7.372e−06 ± 6.612e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.84
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03061
Std Dev 0.7509
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

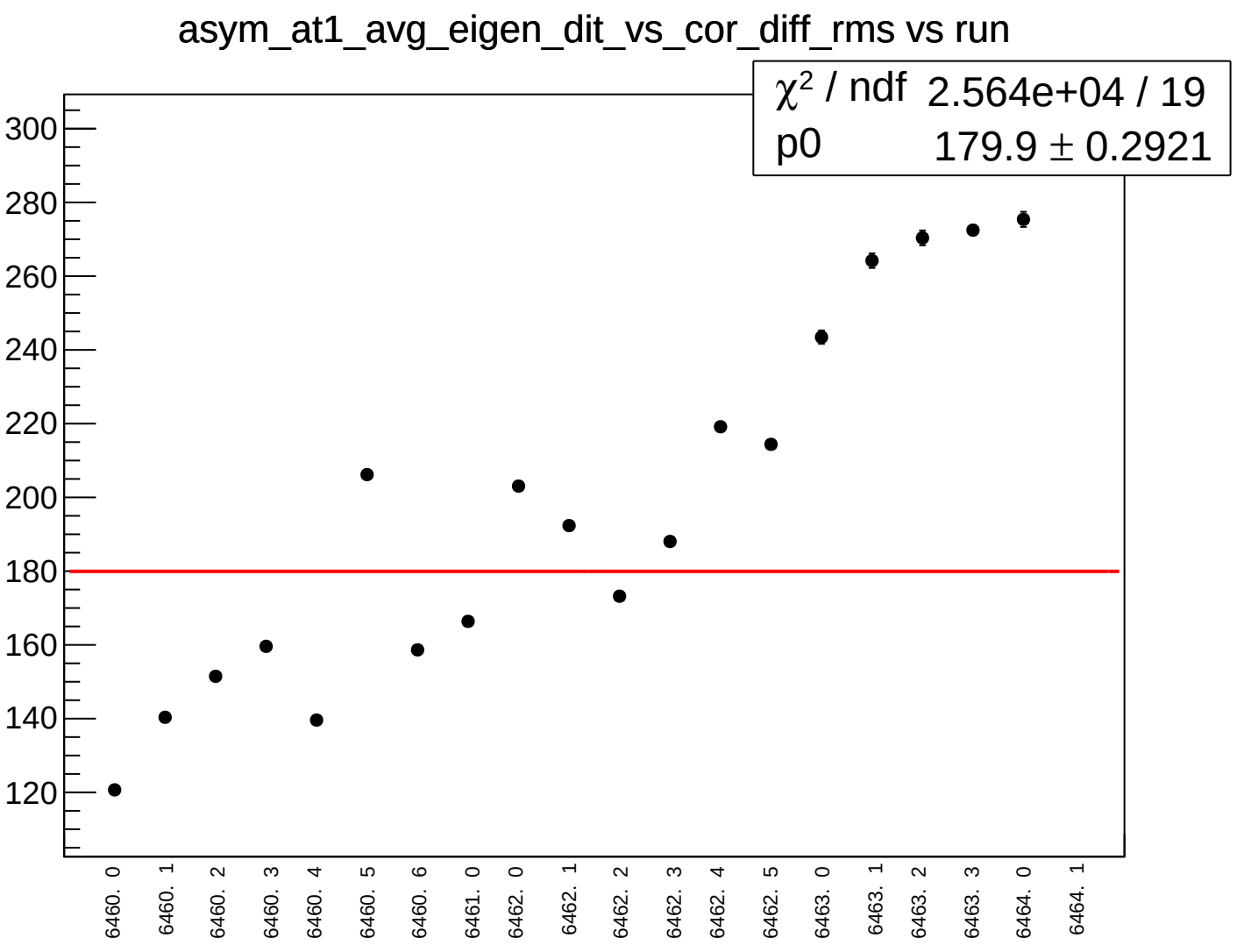

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 537.6 / 19
p0 0.002974 ± 4.676e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

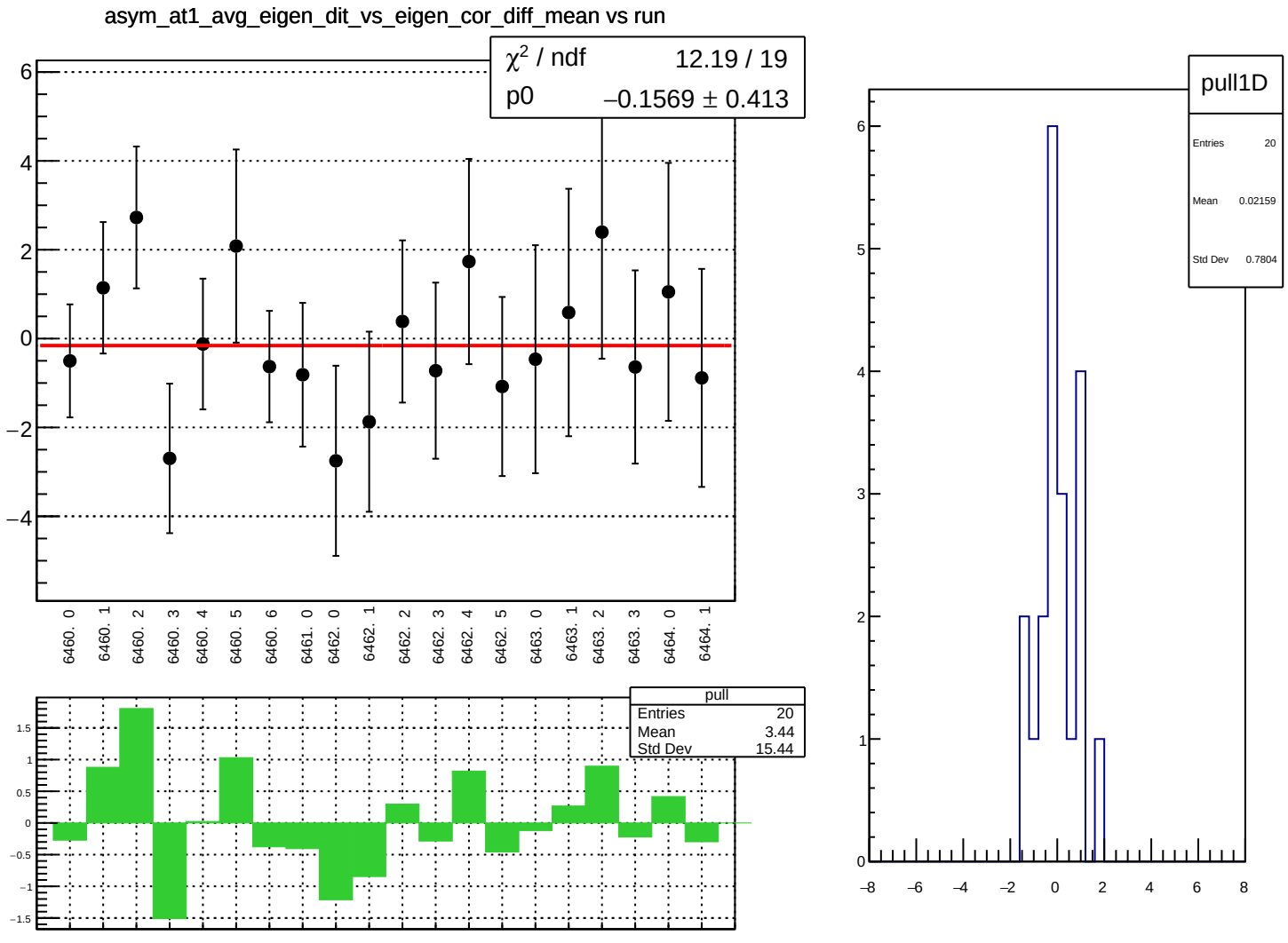
asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run

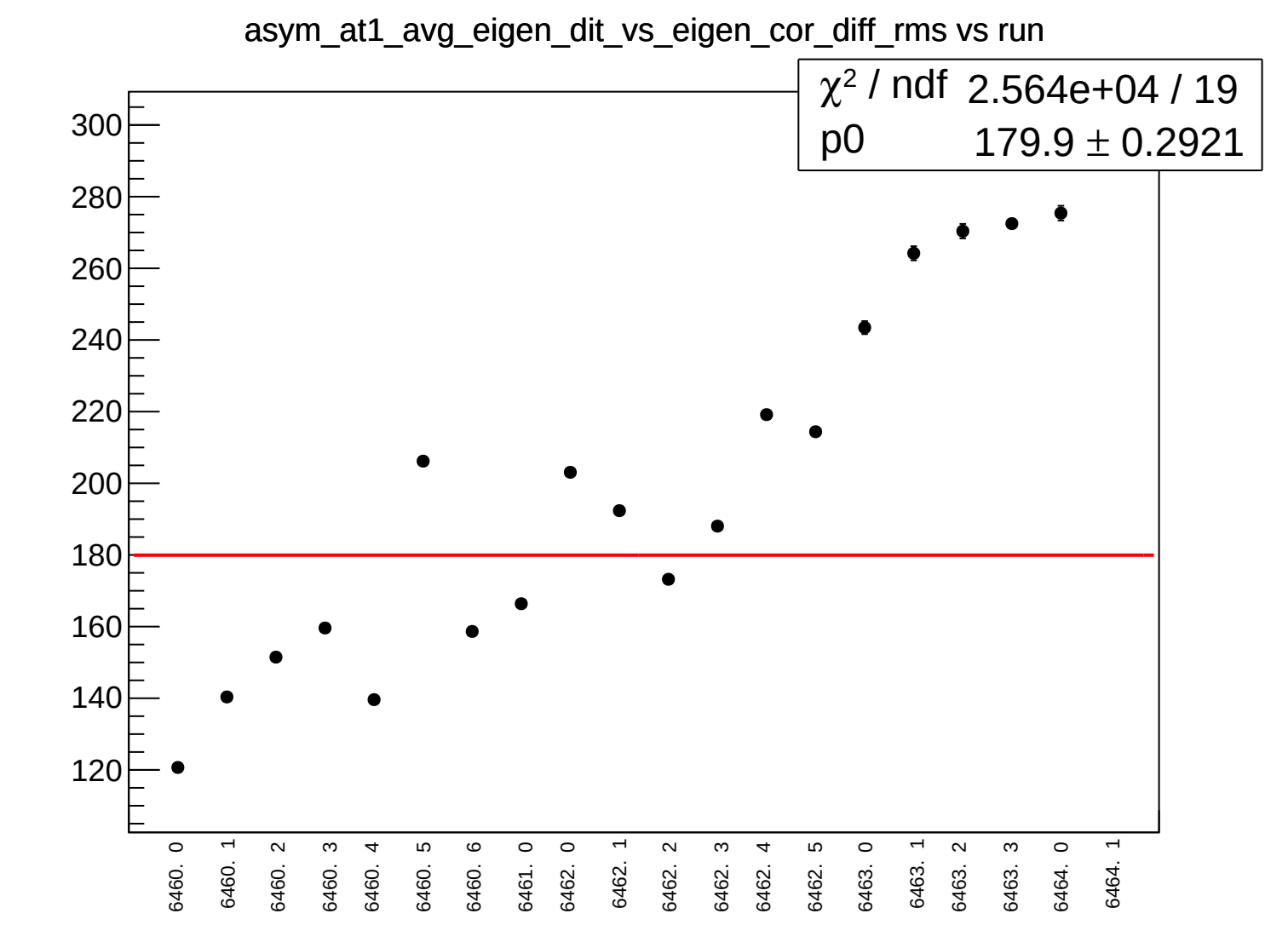


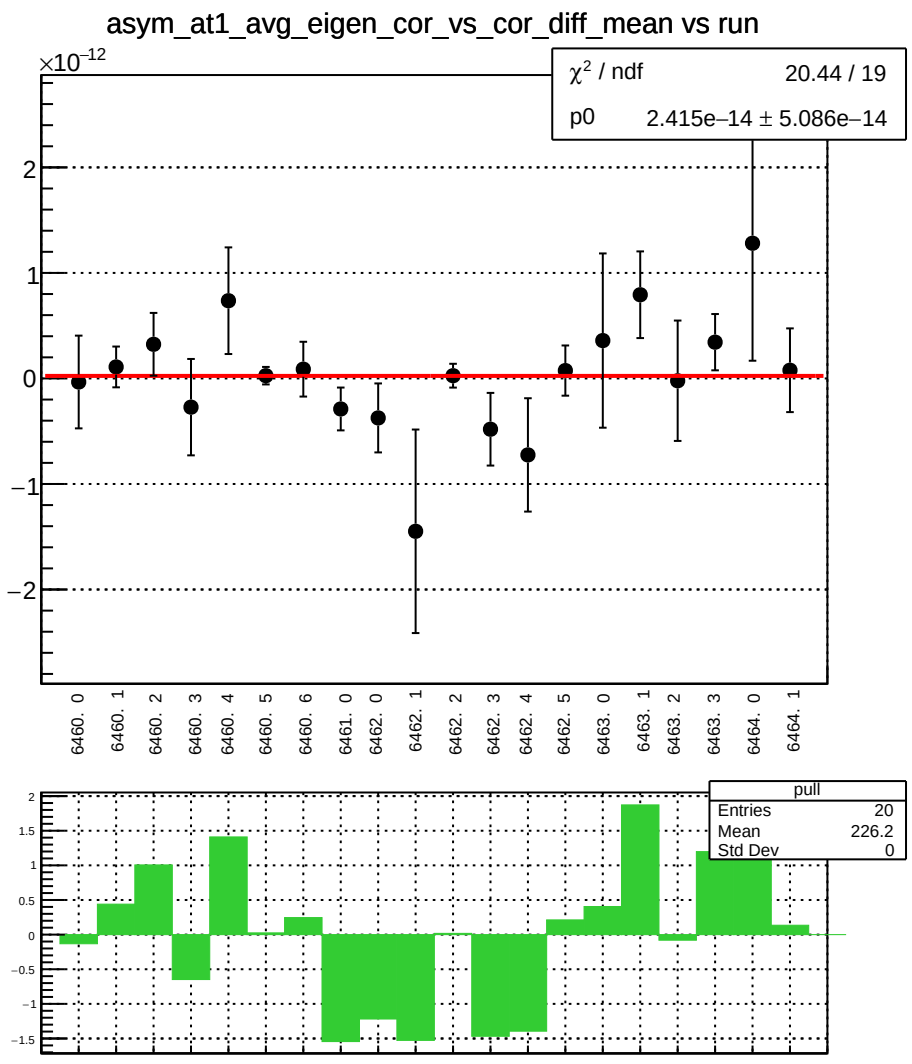


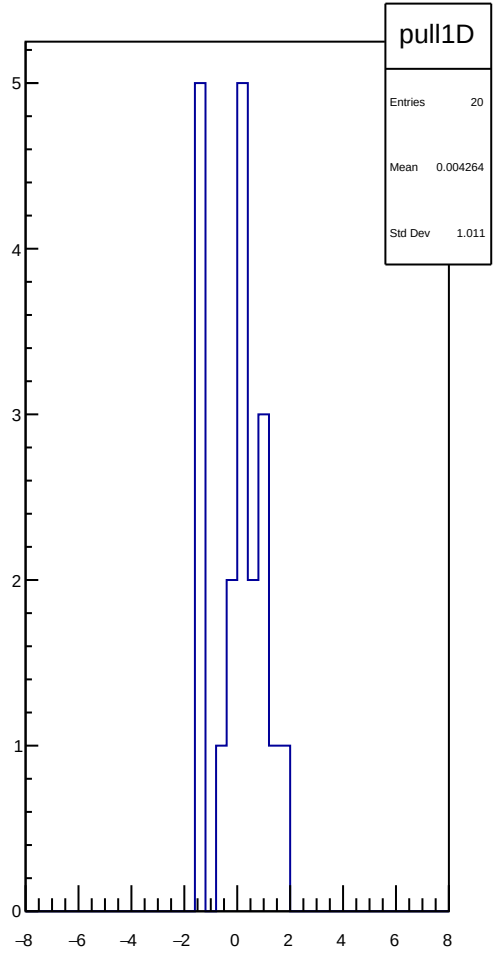


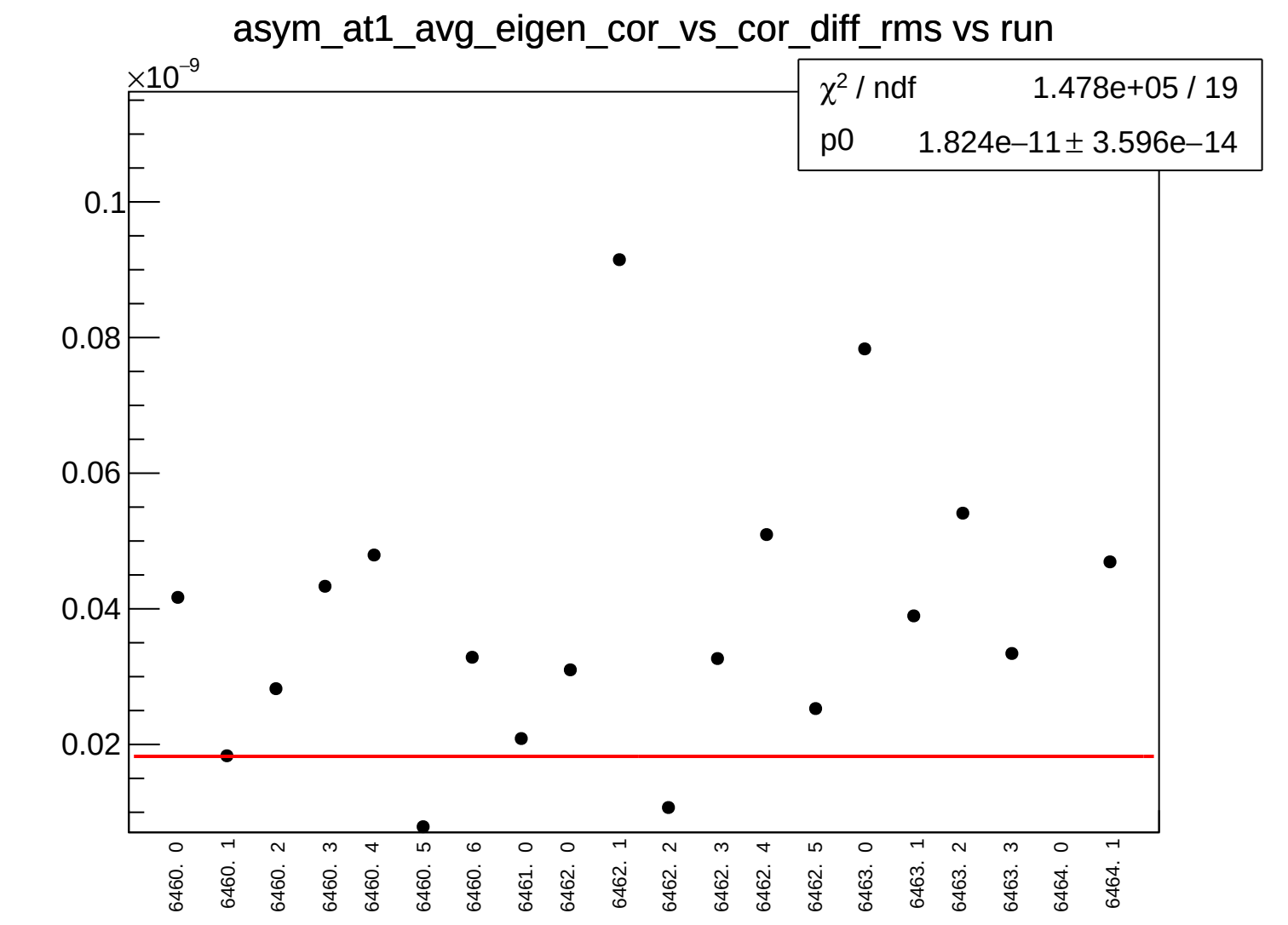

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.564e+04 / 19
p0 179.9 ± 0.2921
300
280
260
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

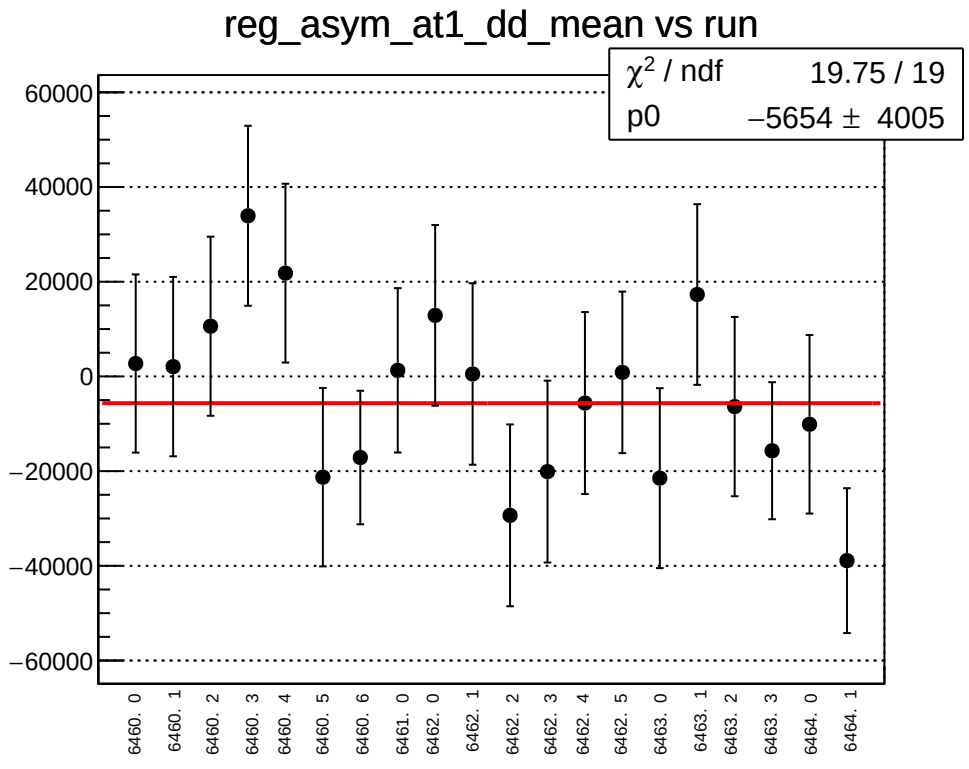

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.19 / 19
p0 −0.1569 ± 0.413
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.44
Std Dev 15.44
pull1D
Entries 20
Mean 0.02159
Std Dev 0.7804

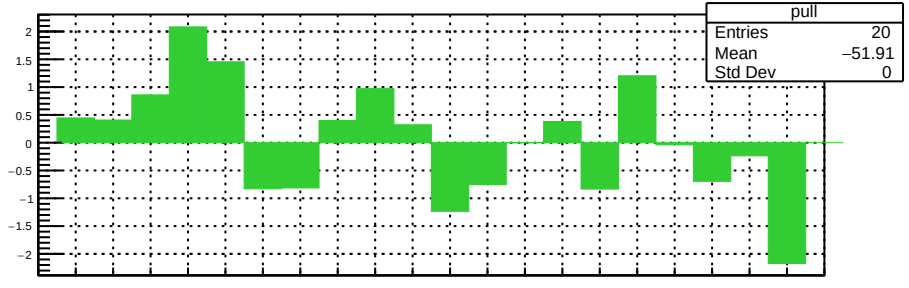

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.564e+04 / 19
p0 179.9 ± 0.2921
300
280
260
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

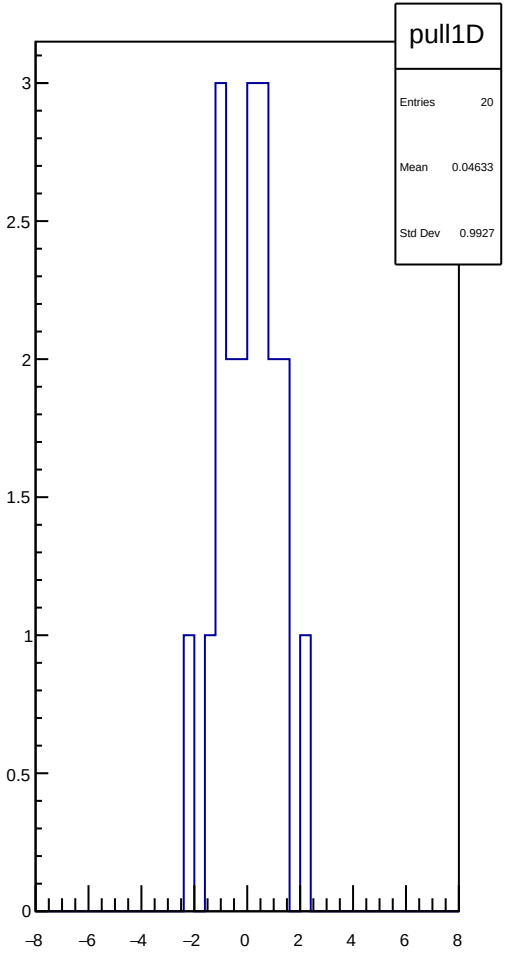

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 20.44 / 19
p0 2.415e−14 ± 5.086e−14
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 226.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

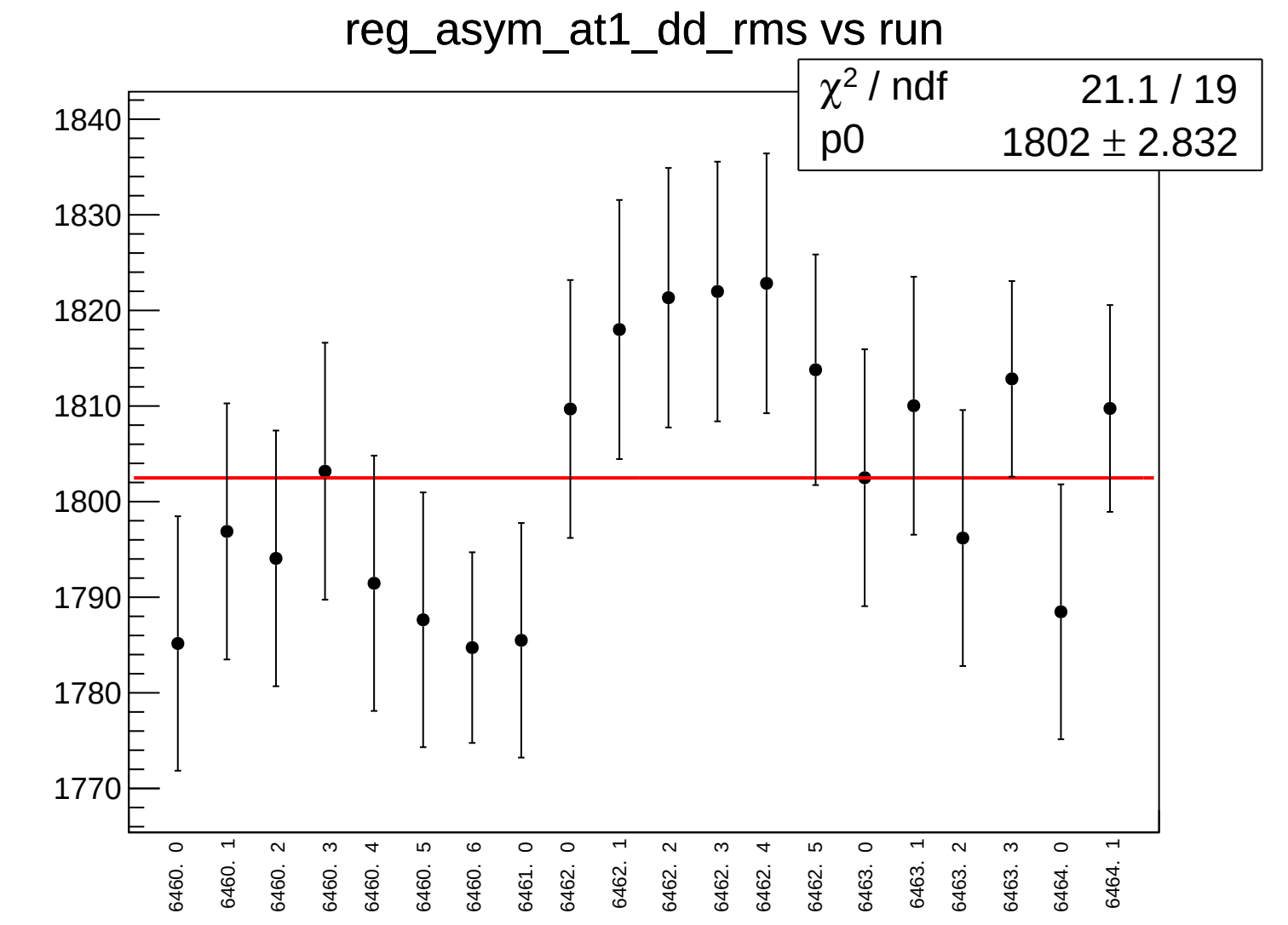

pull1D
Entries 20
Mean 0.004264
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

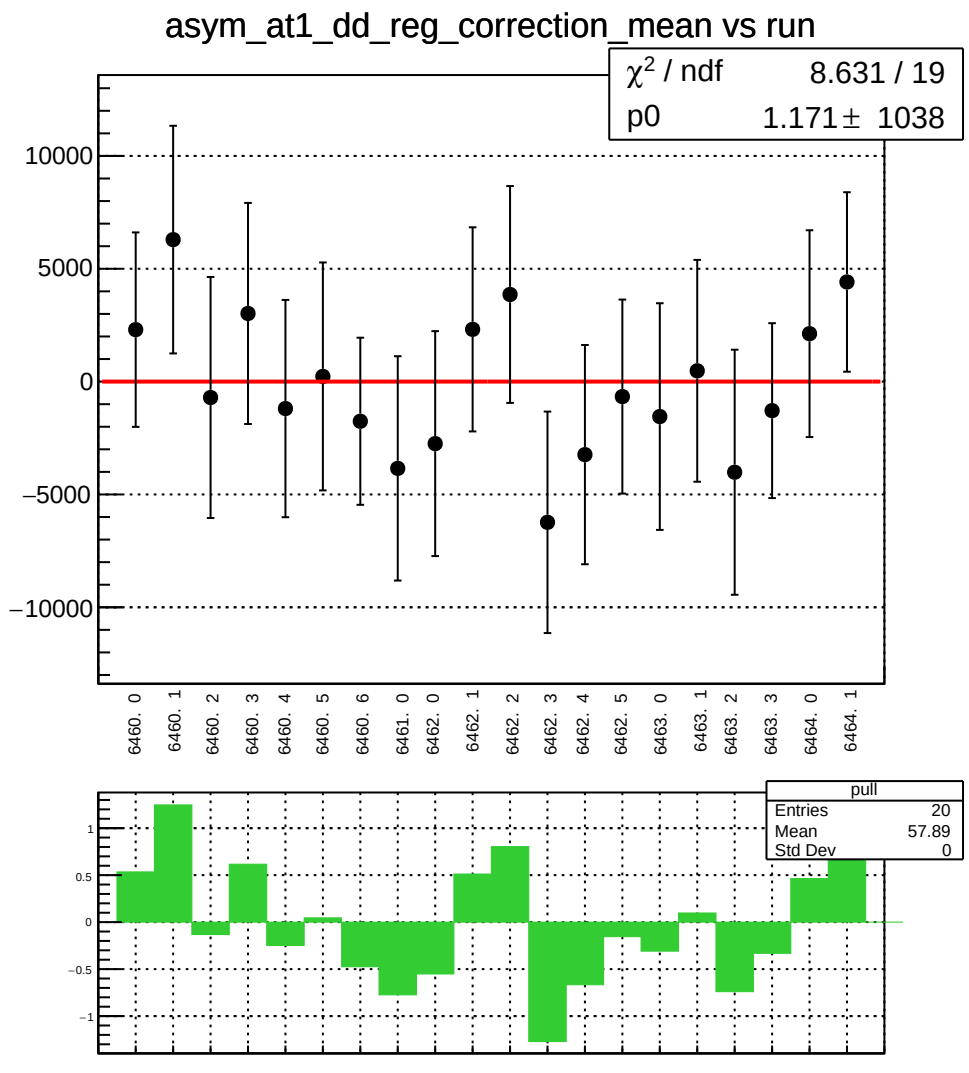

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.478e+05 / 19
p0 1.824e−11 ± 3.596e−14
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

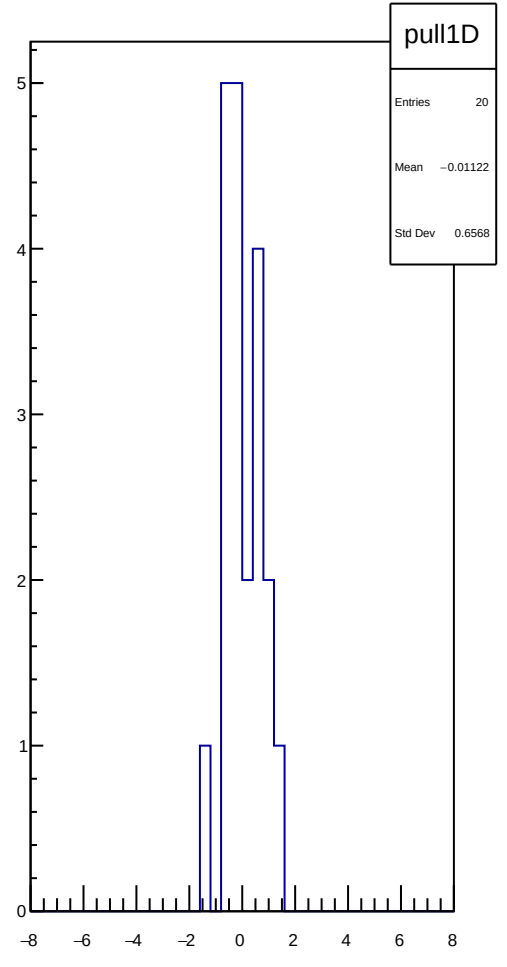

reg_asym_at1_dd_mean vs run
χ² / ndf 19.75 / 19
p0 −5654 ± 4005
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

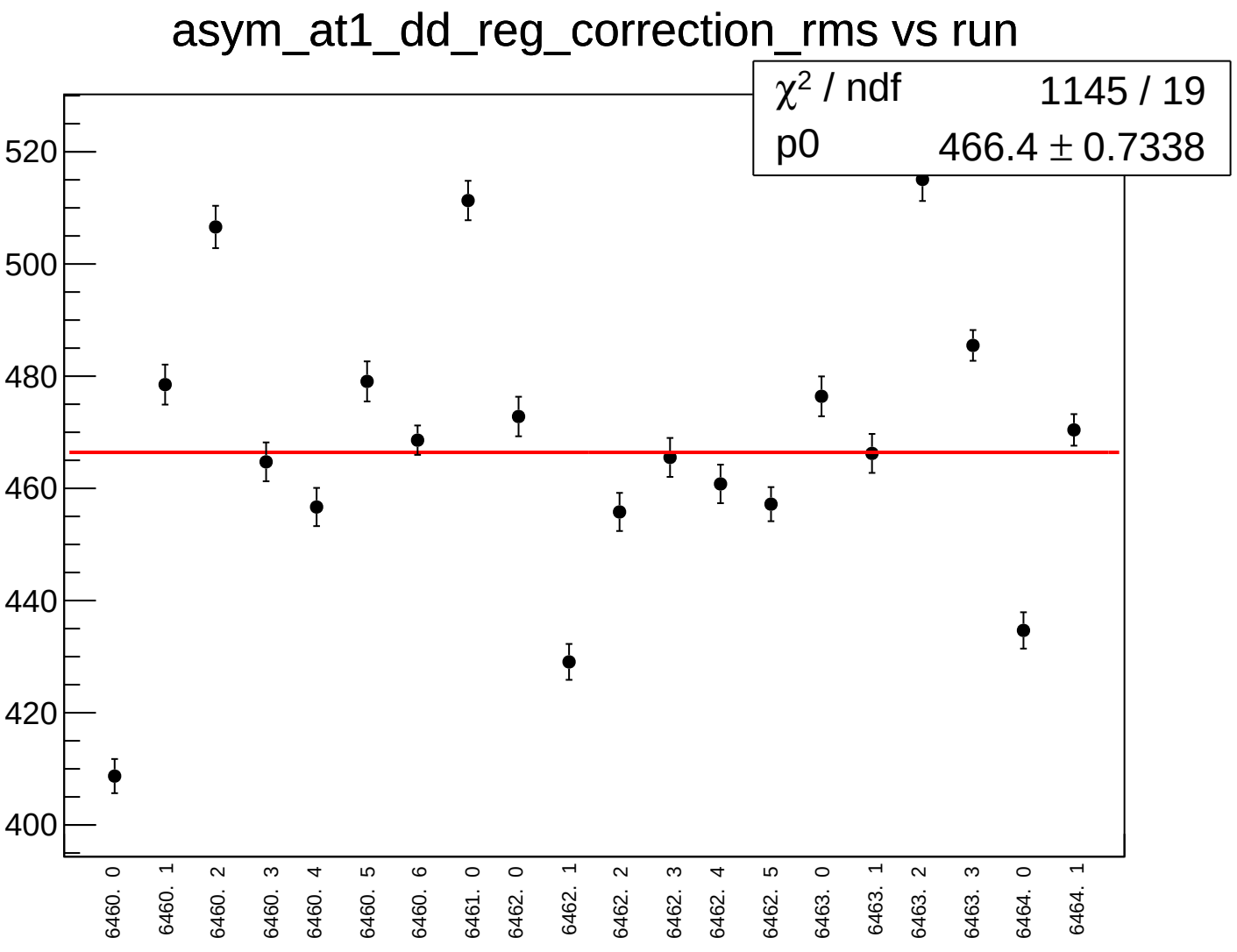

pull
Entries 20
Mean −51.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

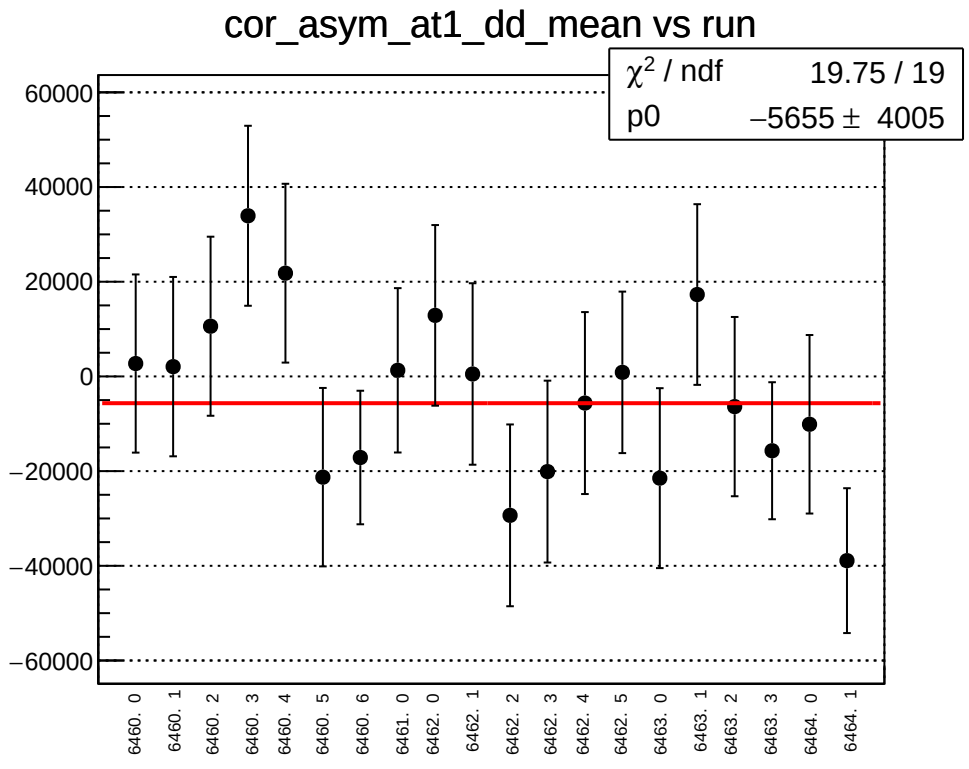

pull1D
Entries 20
Mean 0.04633
Std Dev 0.9927
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

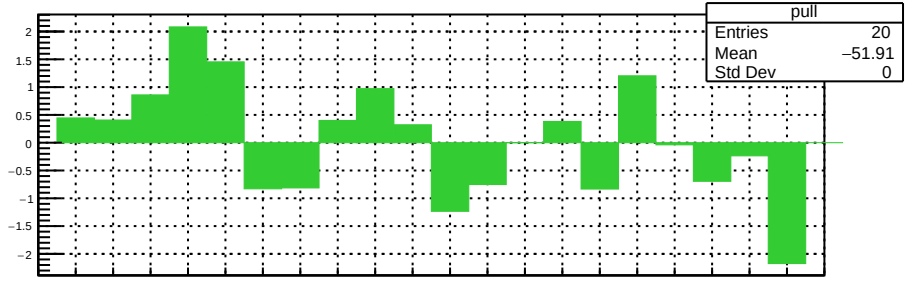

reg_asym_at1_dd_rms vs run
χ² / ndf 21.1 / 19
p0 1802 ± 2.832
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

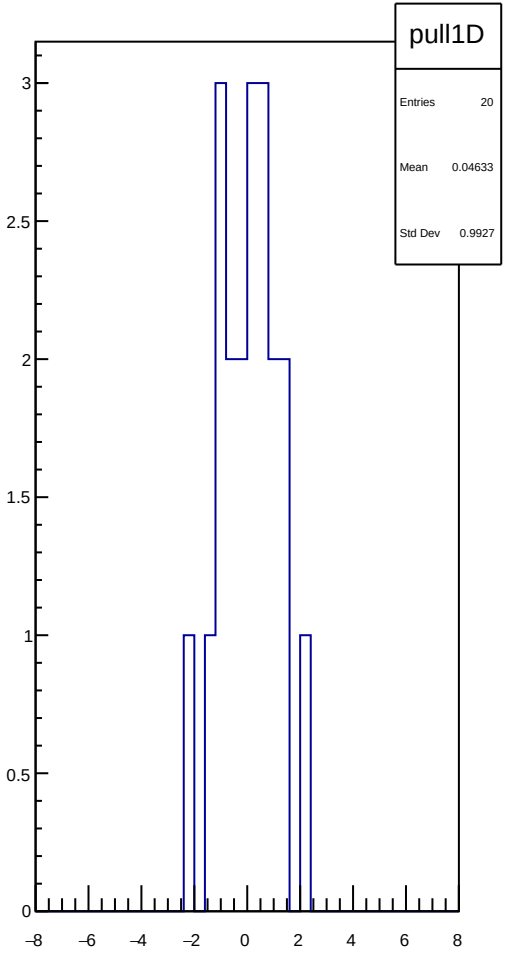

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 8.631 / 19
p0 1.171± 1038
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 57.89
Std Dev 0
1
0.5
0
−0.5
−1

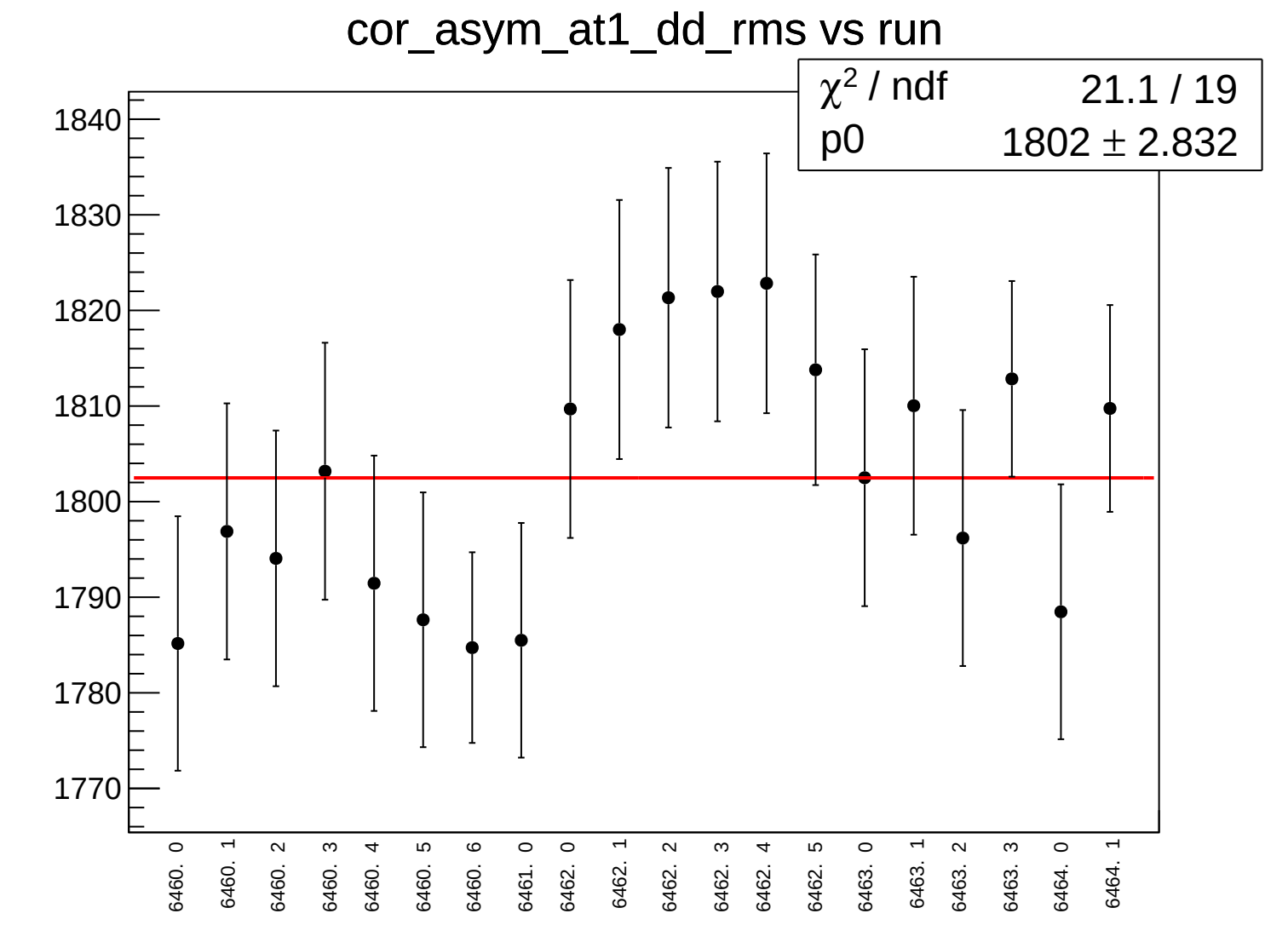

pull1D
Entries 20
Mean −0.01122
Std Dev 0.6568
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

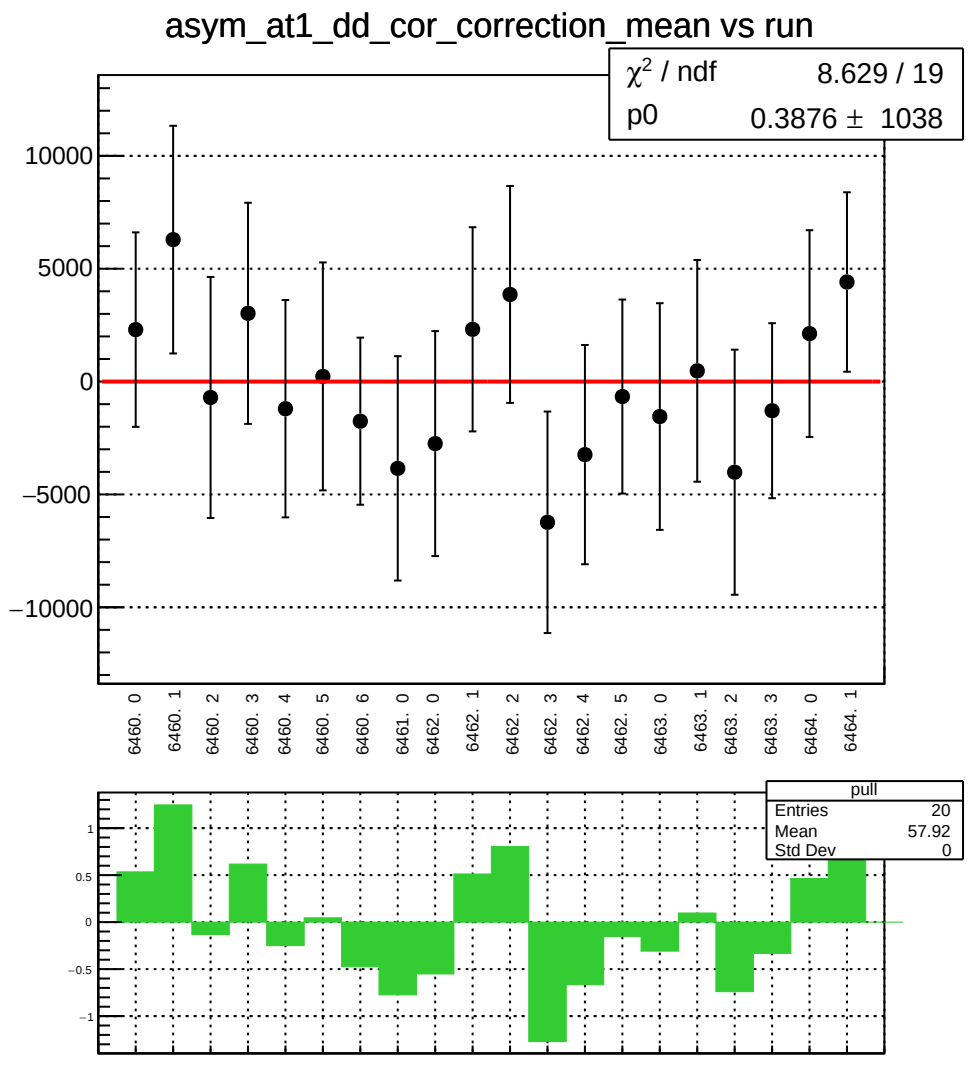

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1145 / 19
p0 466.4 ± 0.7338
520
500
480
460
440
420
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

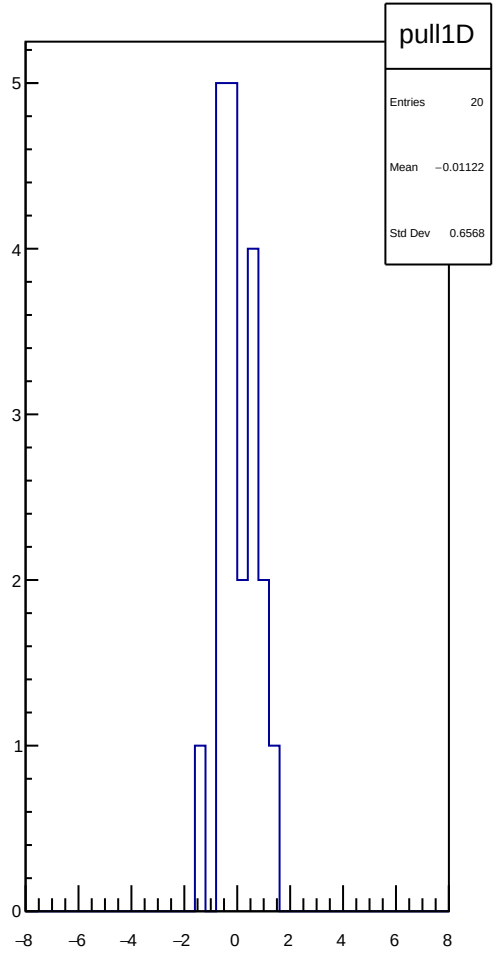

cor_asym_at1_dd_mean vs run
χ² / ndf 19.75 / 19
p0 −5655 ± 4005
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

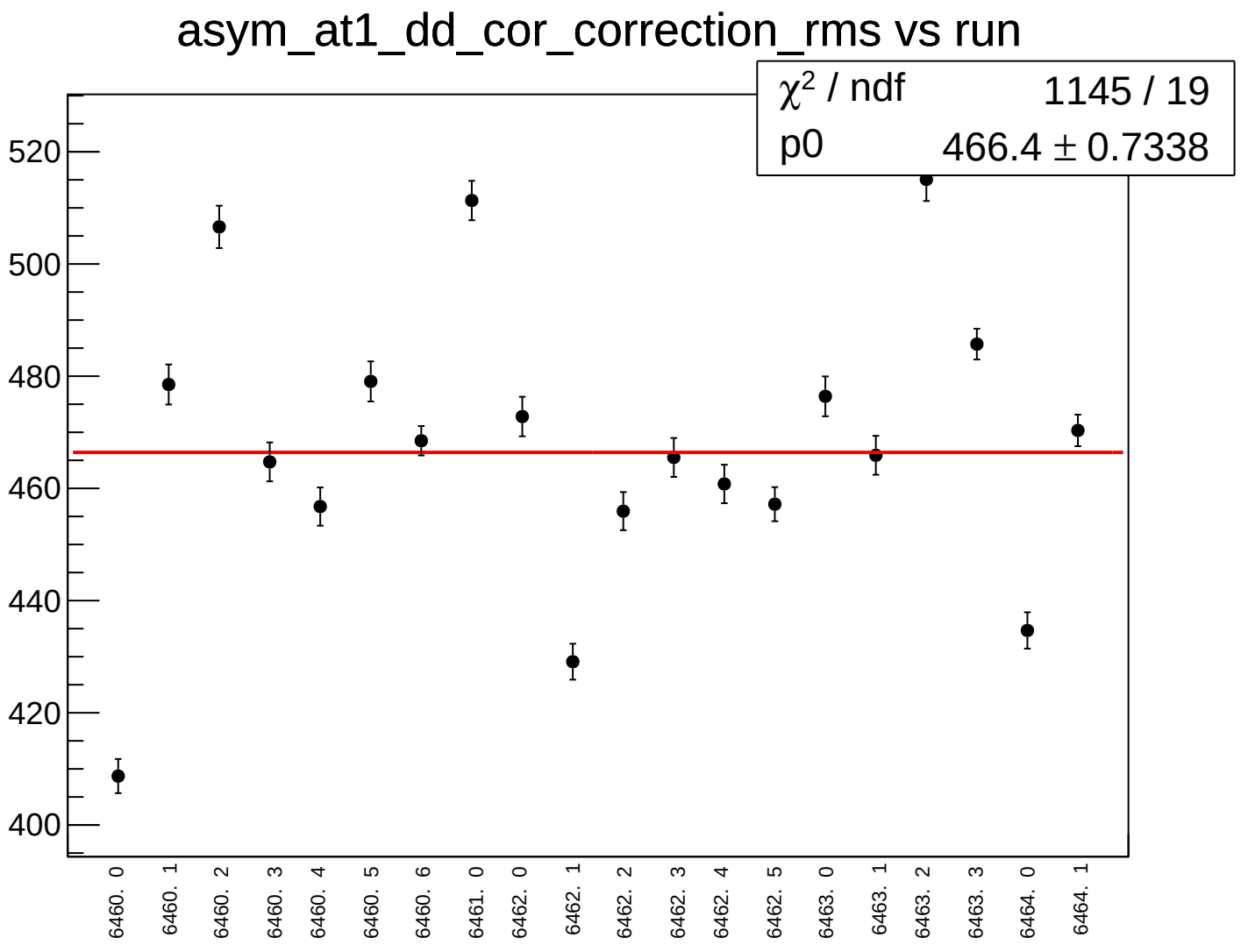

pull
Entries 20
Mean −51.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

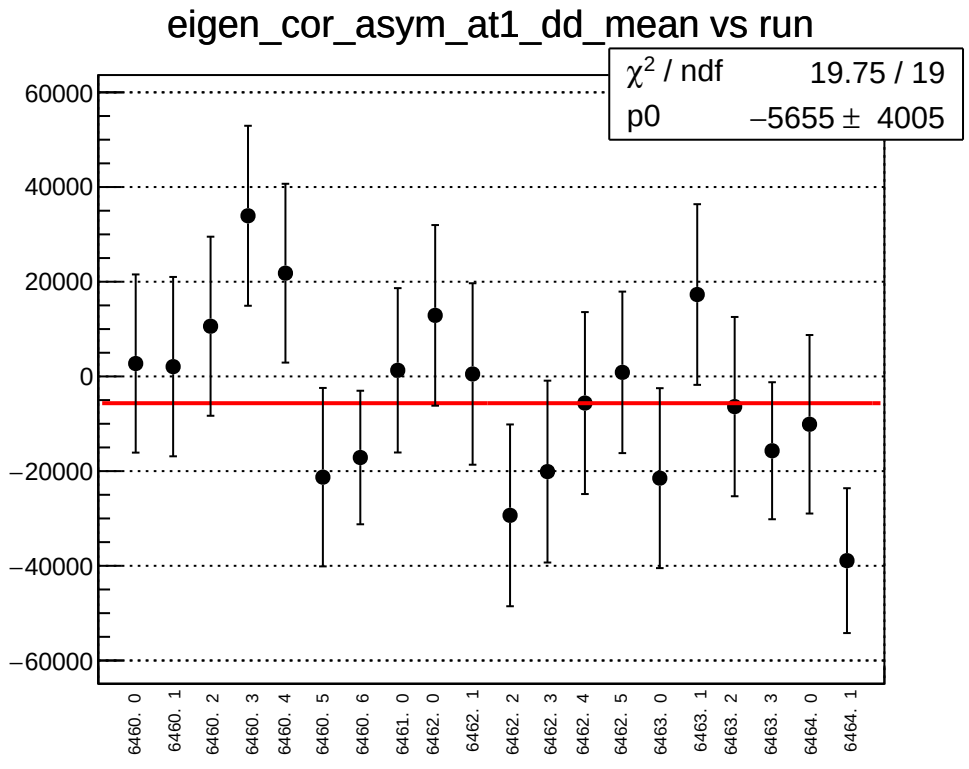

pull1D
Entries 20
Mean 0.04633
Std Dev 0.9927
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

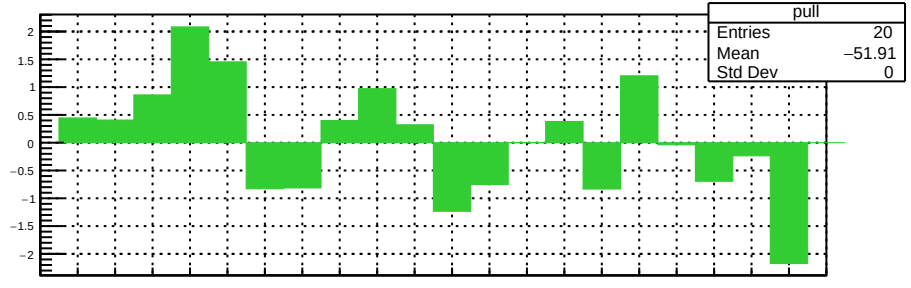

cor_asym_at1_dd_rms vs run
χ² / ndf 21.1 / 19
p0 1802 ± 2.832
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

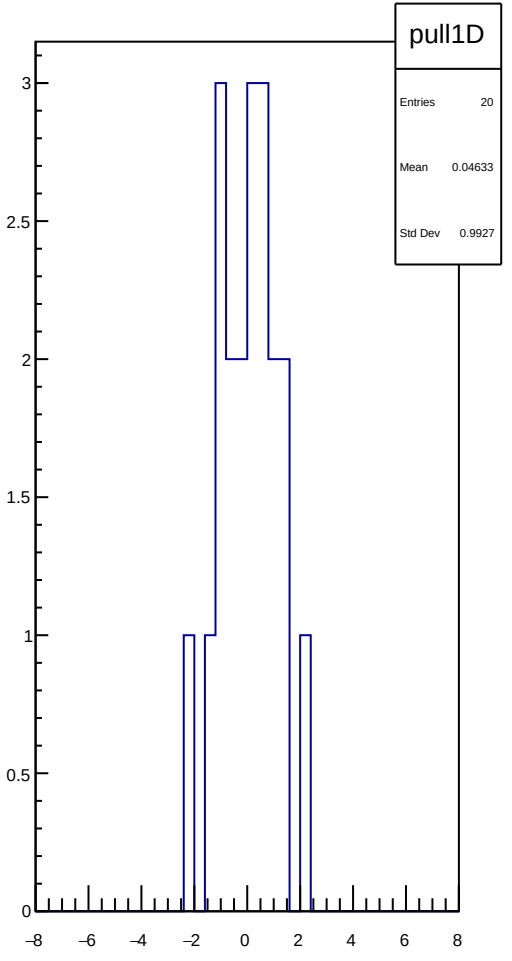

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 8.629 / 19
p0 0.3876 ± 1038
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 57.92
Std Dev 0
1
0.5
0
−0.5
−1

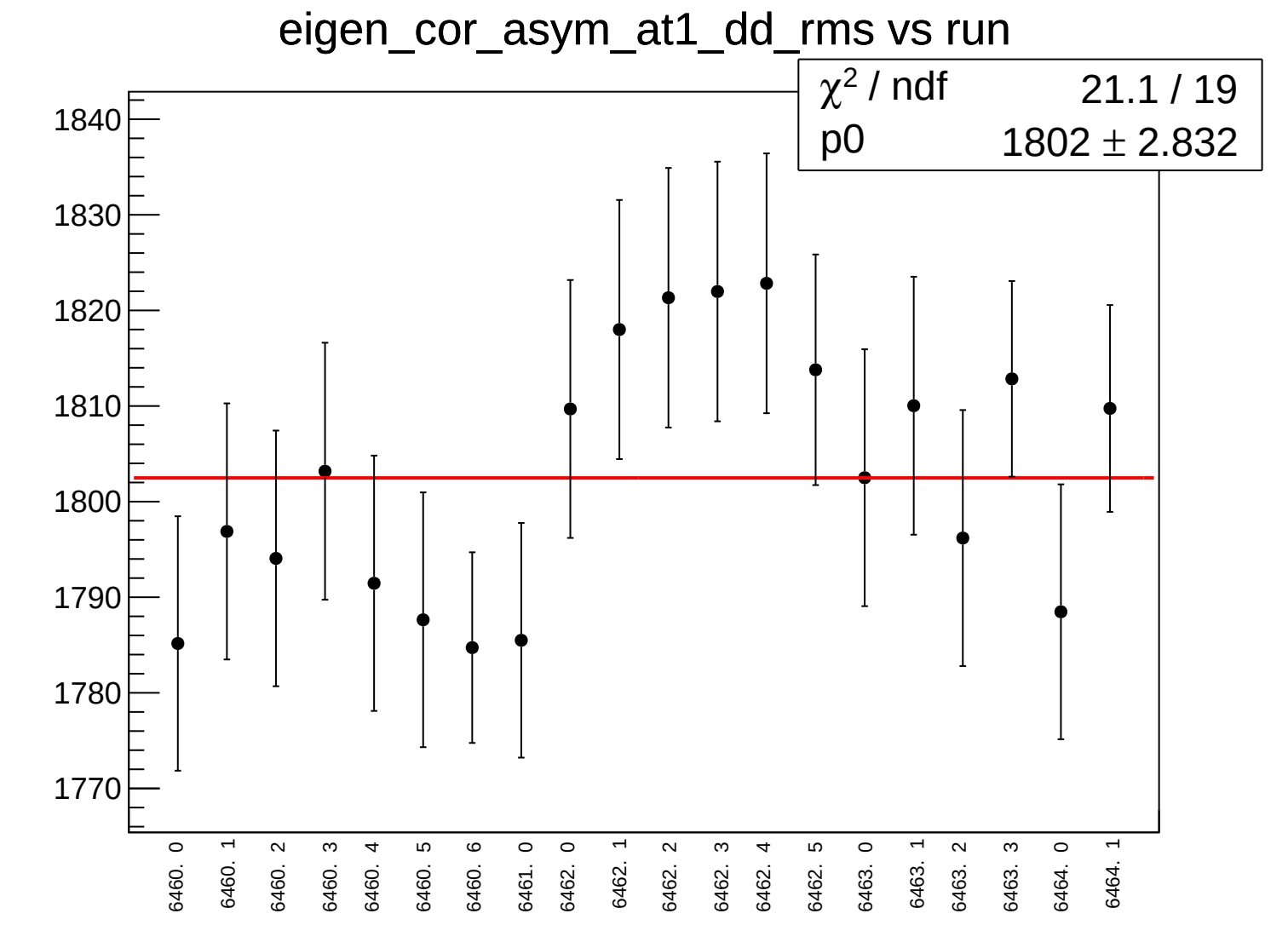

pull1D
Entries 20
Mean −0.01122
Std Dev 0.6568
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

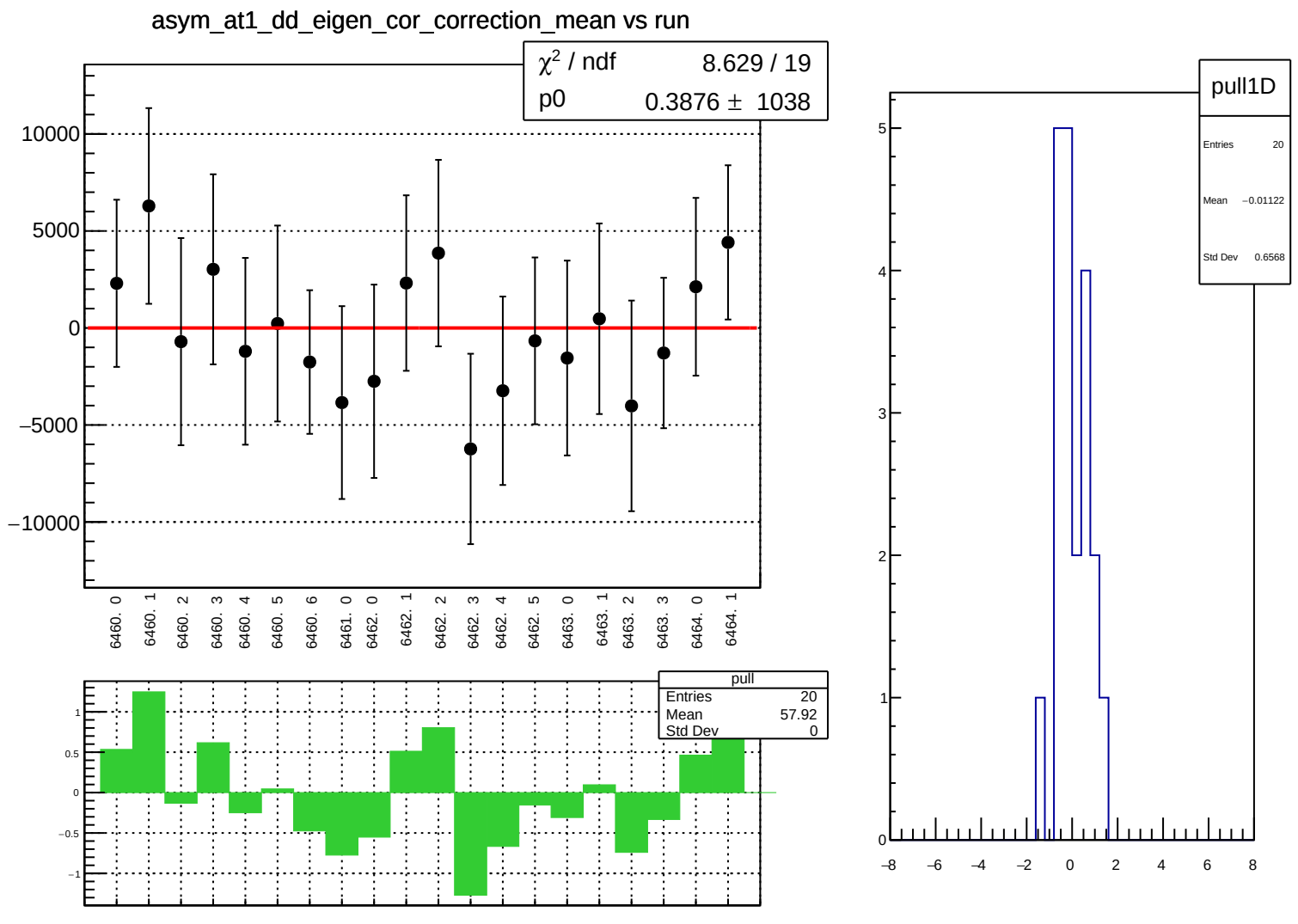

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1145 / 19
p0 466.4 ± 0.7338
520
500
480
460
440
420
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

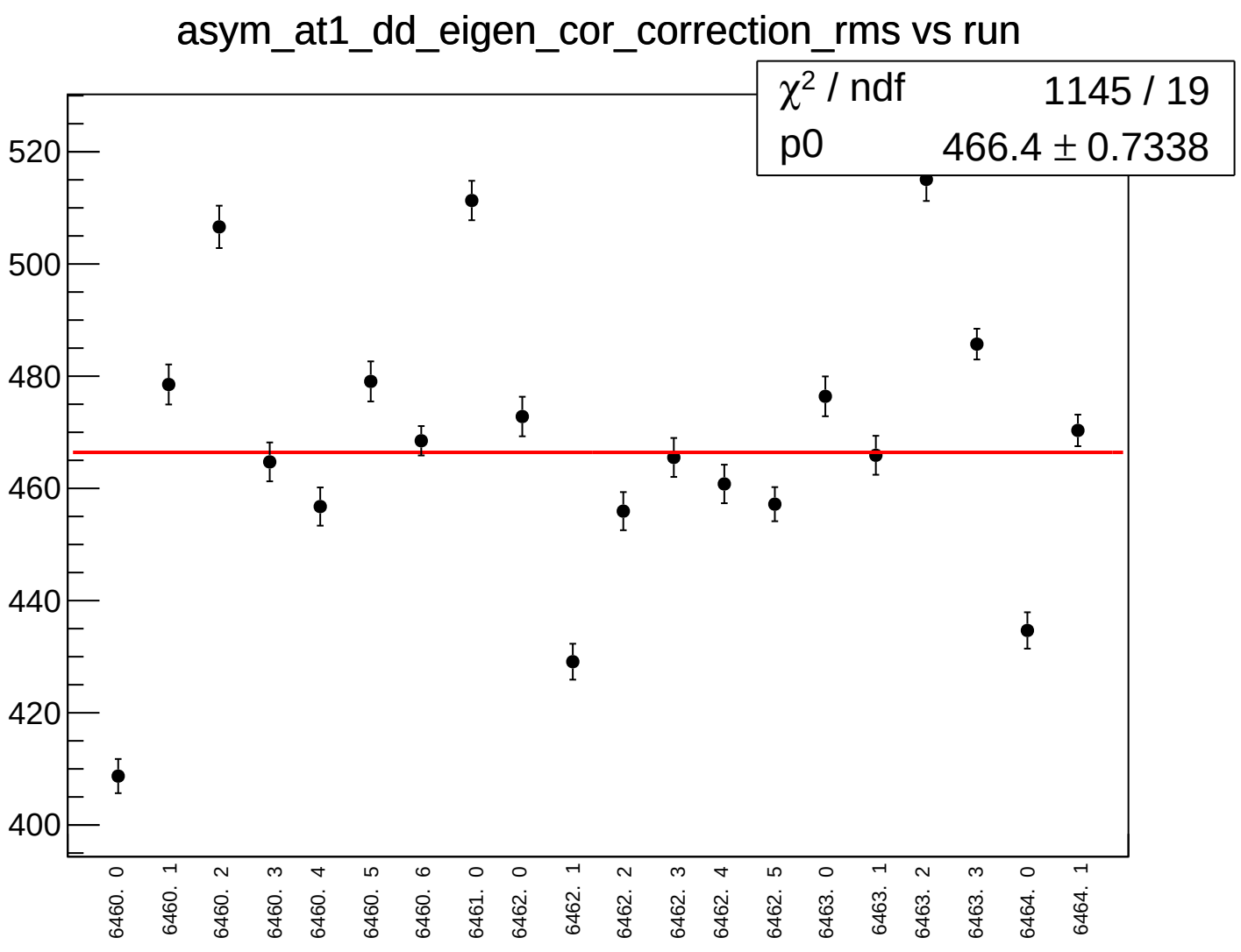

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 19.75 / 19
p0 −5655 ± 4005
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

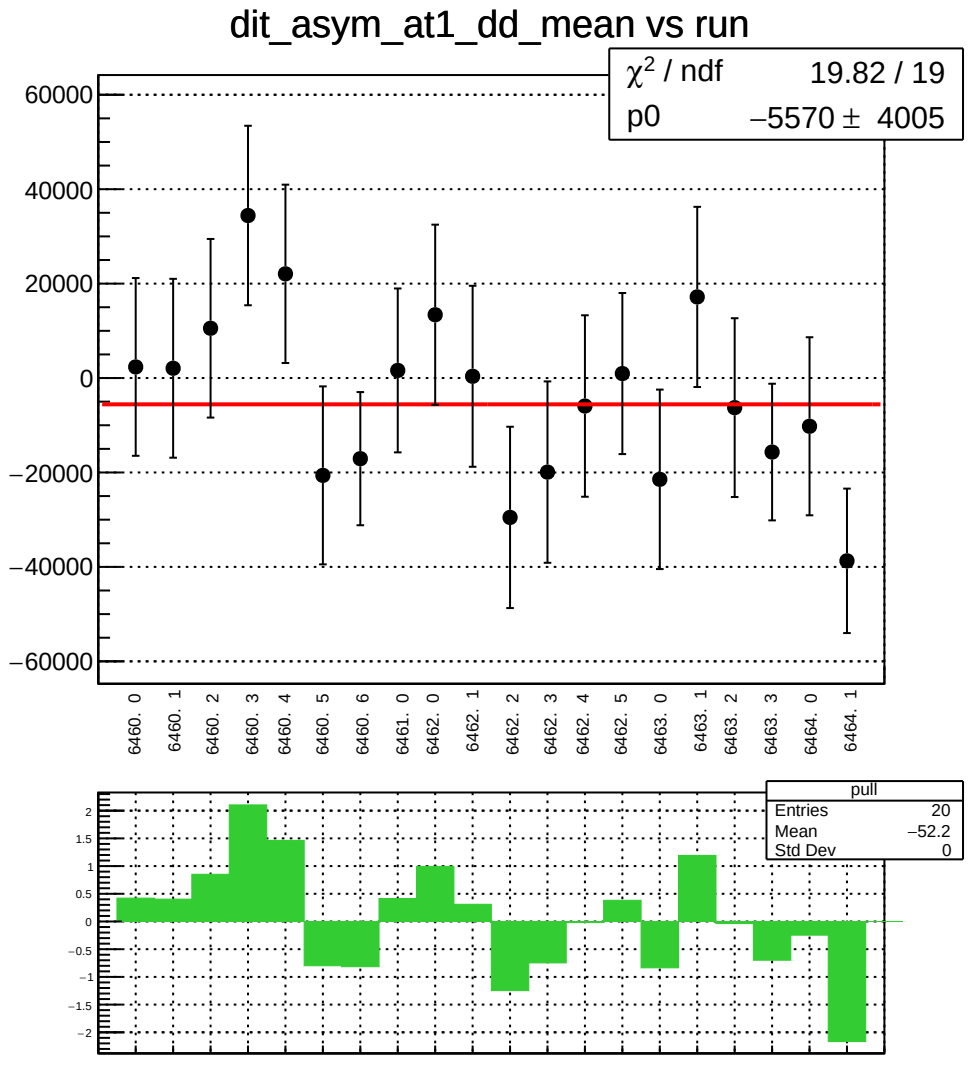

pull
Entries 20
Mean −51.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

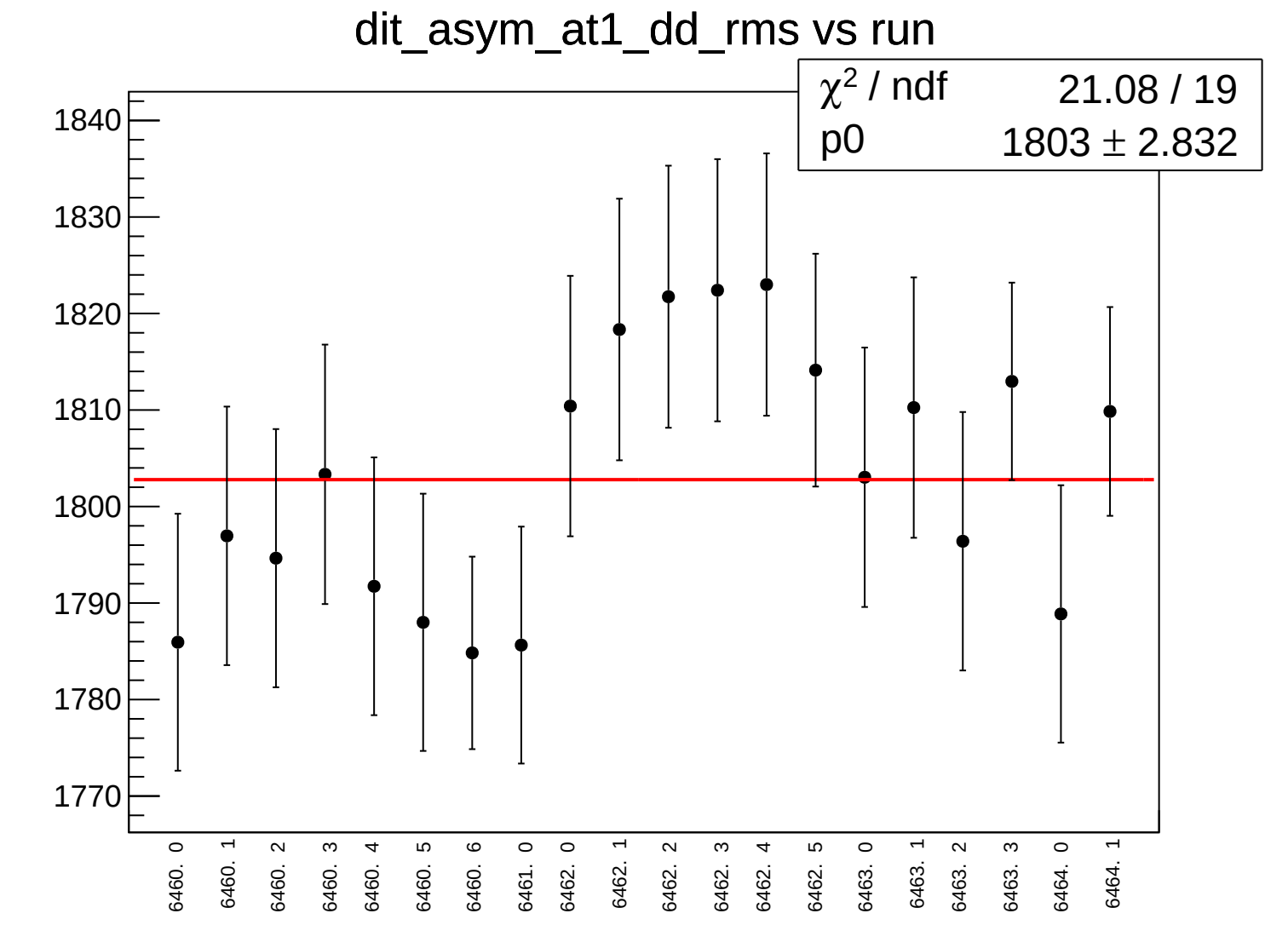

pull1D
Entries 20
Mean 0.04633
Std Dev 0.9927
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

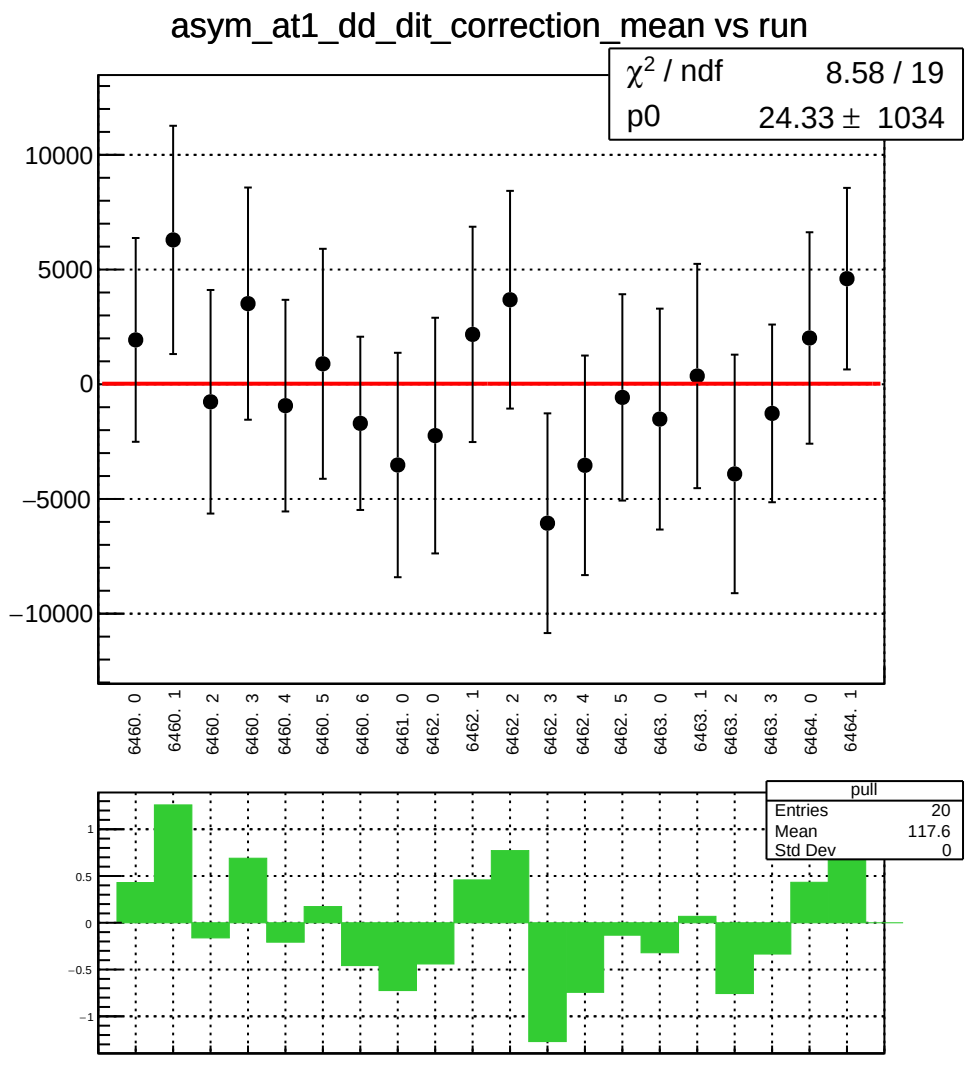

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 21.1 / 19
p0 1802 ± 2.832
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

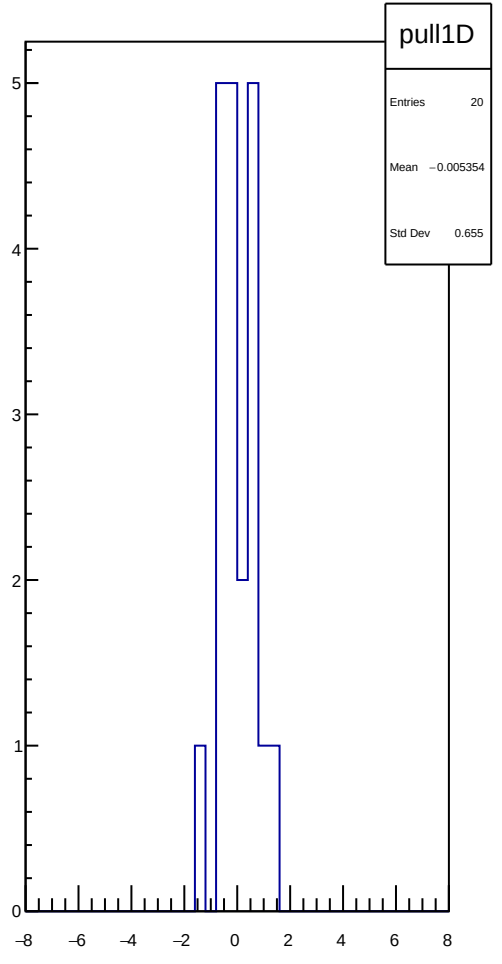

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 8.629 / 19
p0 0.3876 ± 1038
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 57.92
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01122
Std Dev 0.6568
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

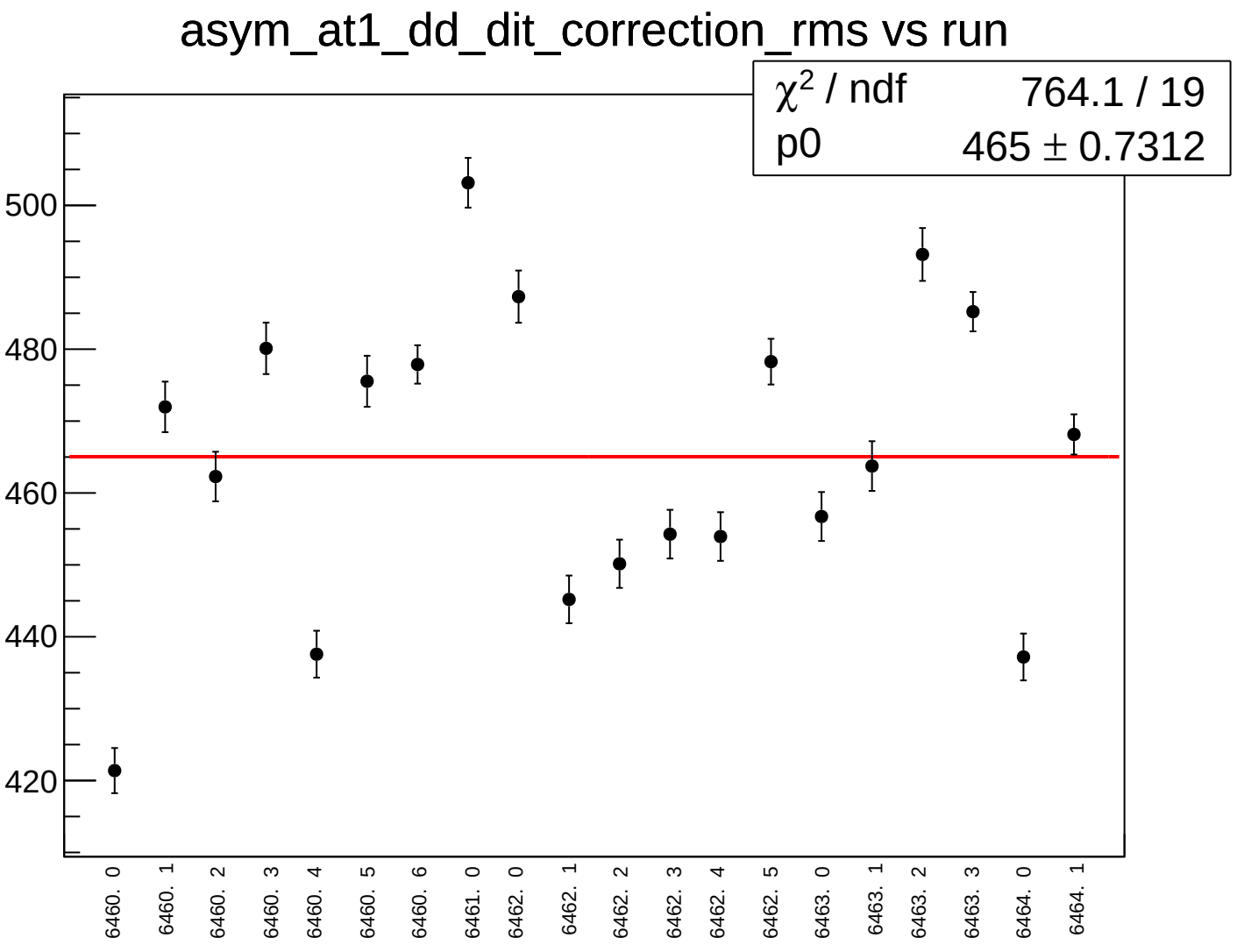

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1145 / 19
p0 466.4 ± 0.7338
520
500
480
460
440
420
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

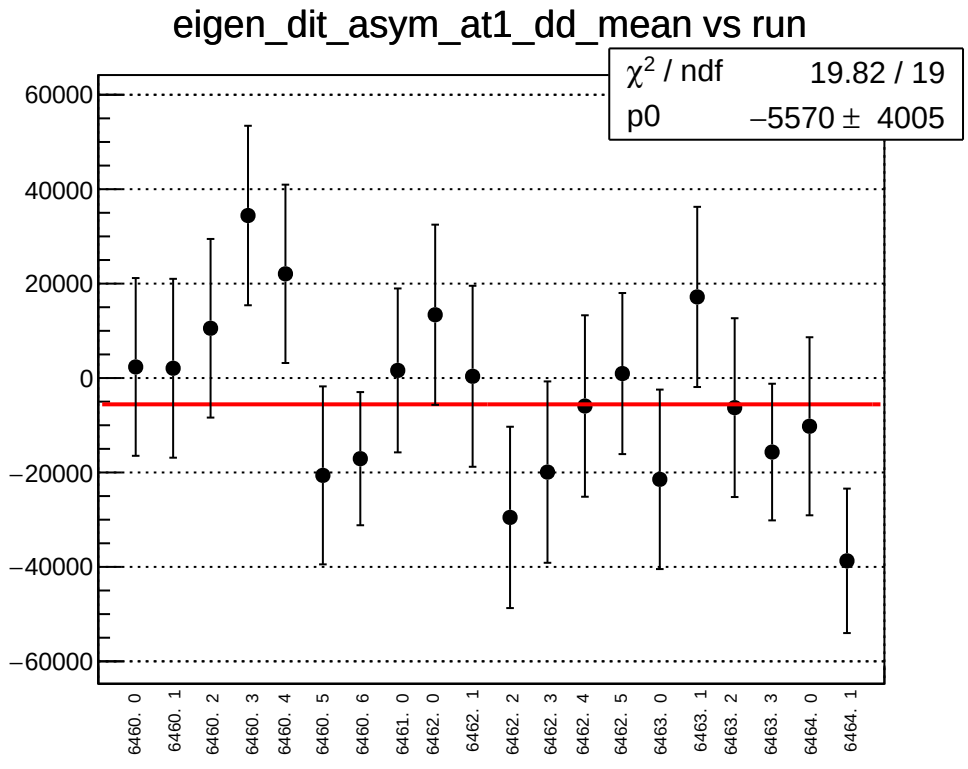

dit_asym_at1_dd_mean vs run
χ² / ndf 19.82 / 19
p0 −5570 ± 4005
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.0463
Std Dev 0.9944
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

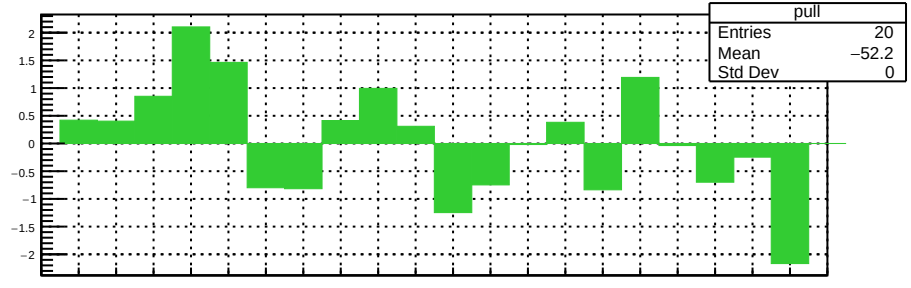

dit_asym_at1_dd_rms vs run
χ² / ndf 21.08 / 19
p0 1803 ± 2.832
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

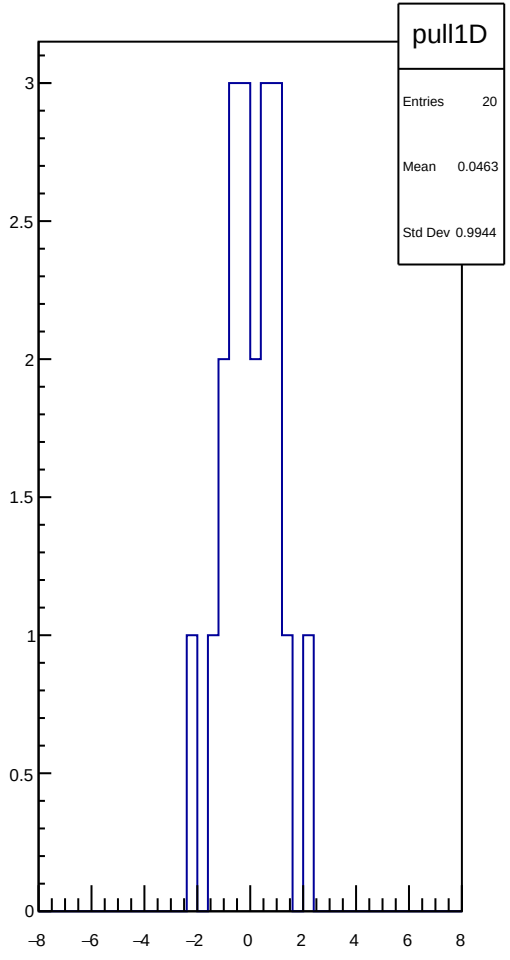

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 8.58 / 19
p0 24.33 ± 1034
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 117.6
Std Dev 0
1
0.5
0
−0.5
−1

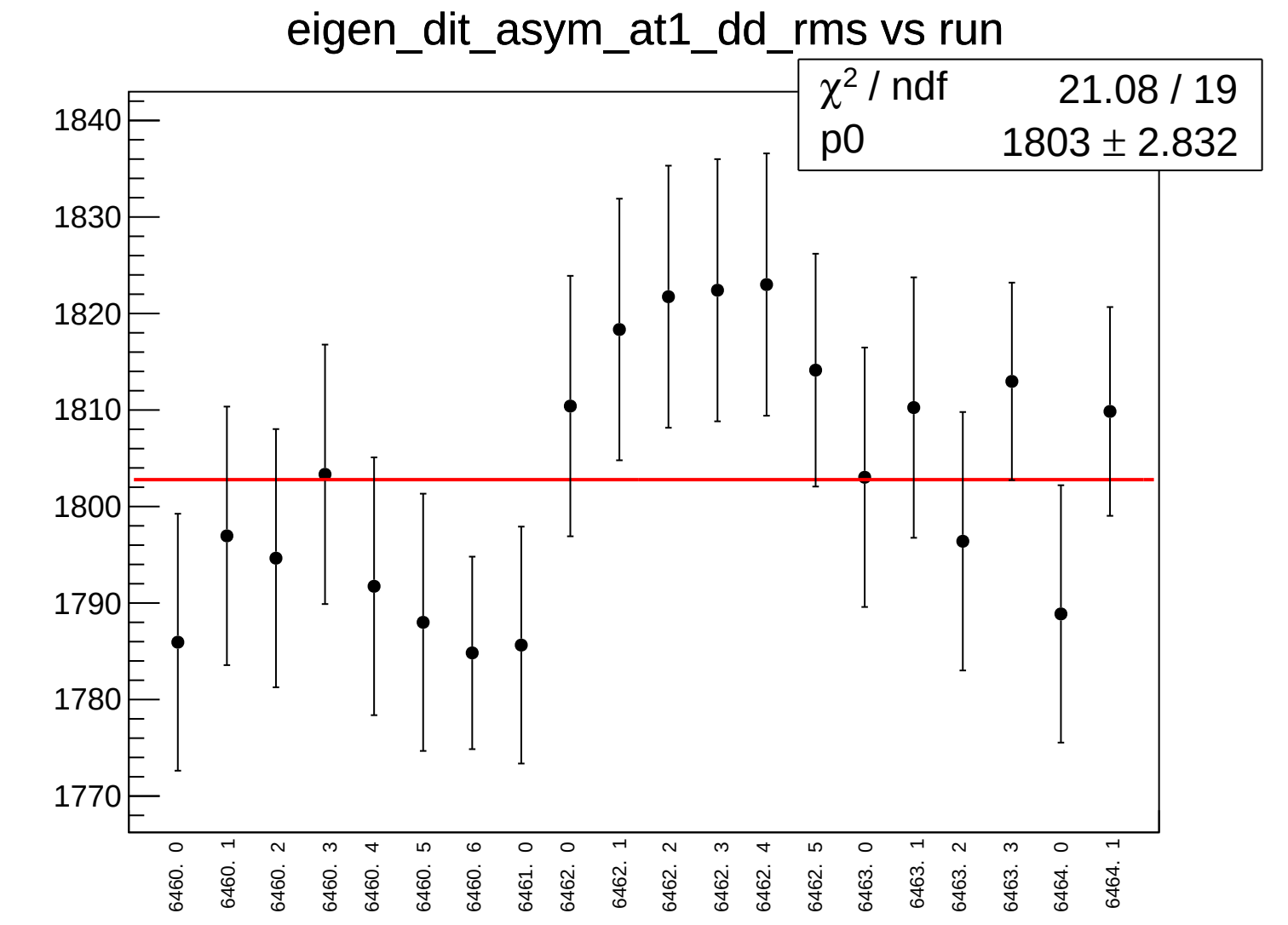

pull1D
Entries 20
Mean −0.005354
Std Dev 0.655
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

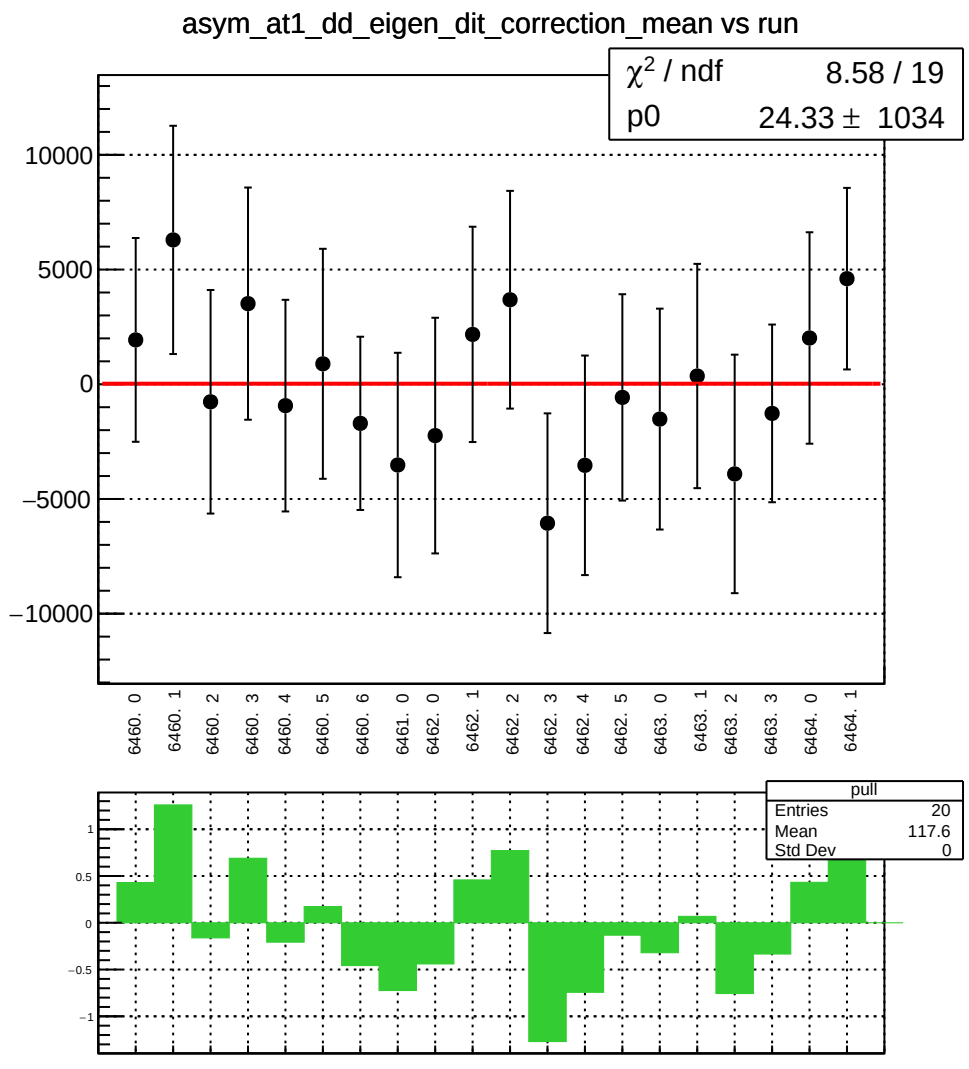

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 764.1 / 19
p0 465 ± 0.7312
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

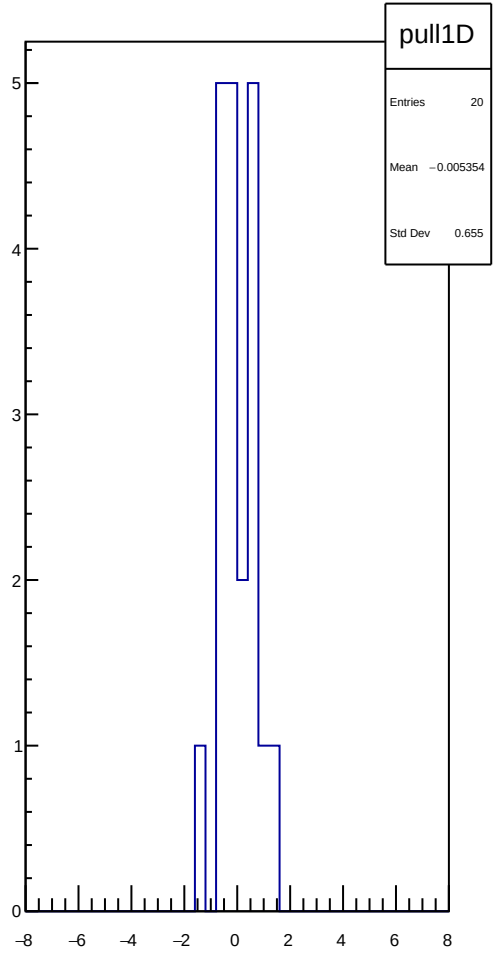

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 19.82 / 19
p0 −5570 ± 4005
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

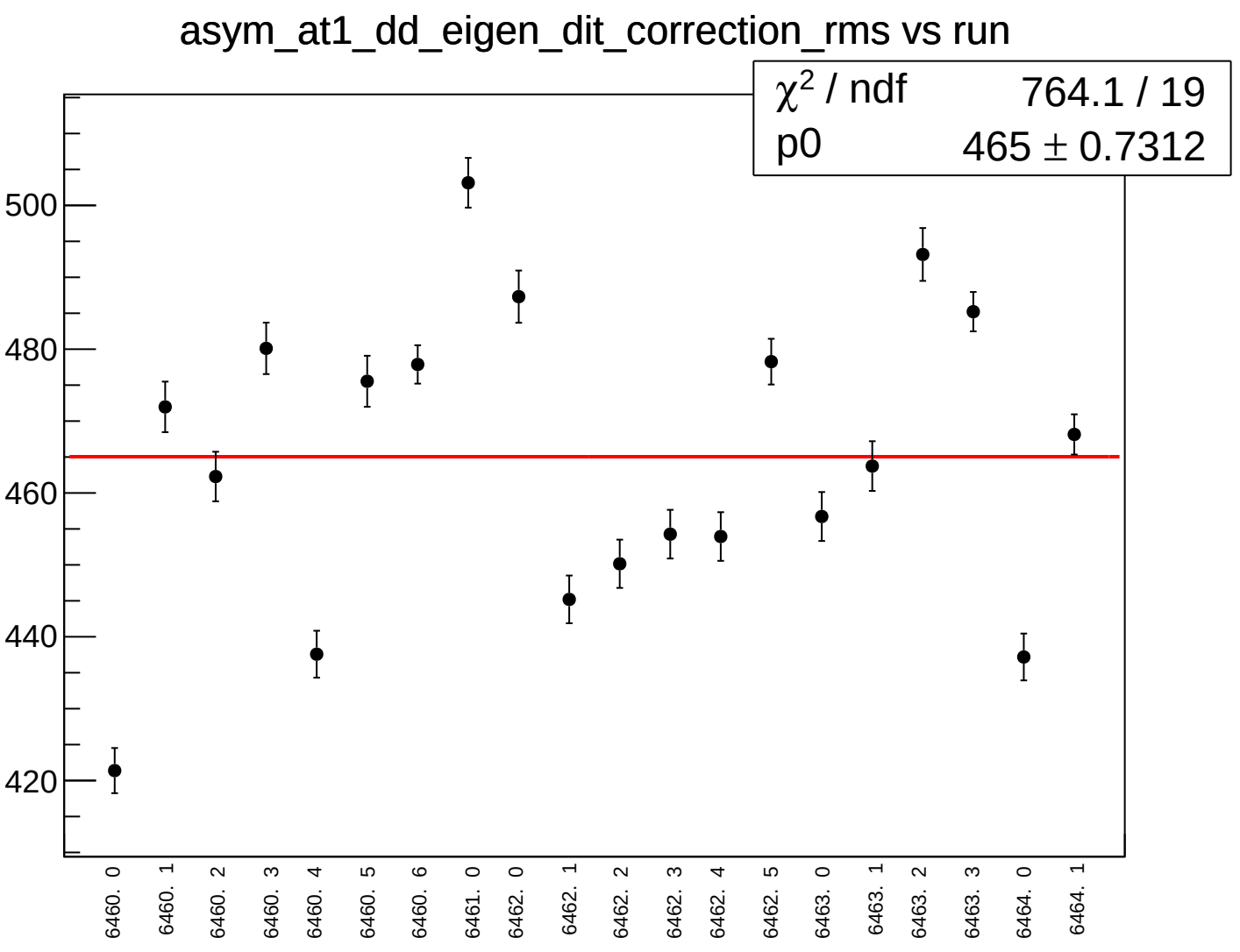

pull
Entries 20
Mean −52.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

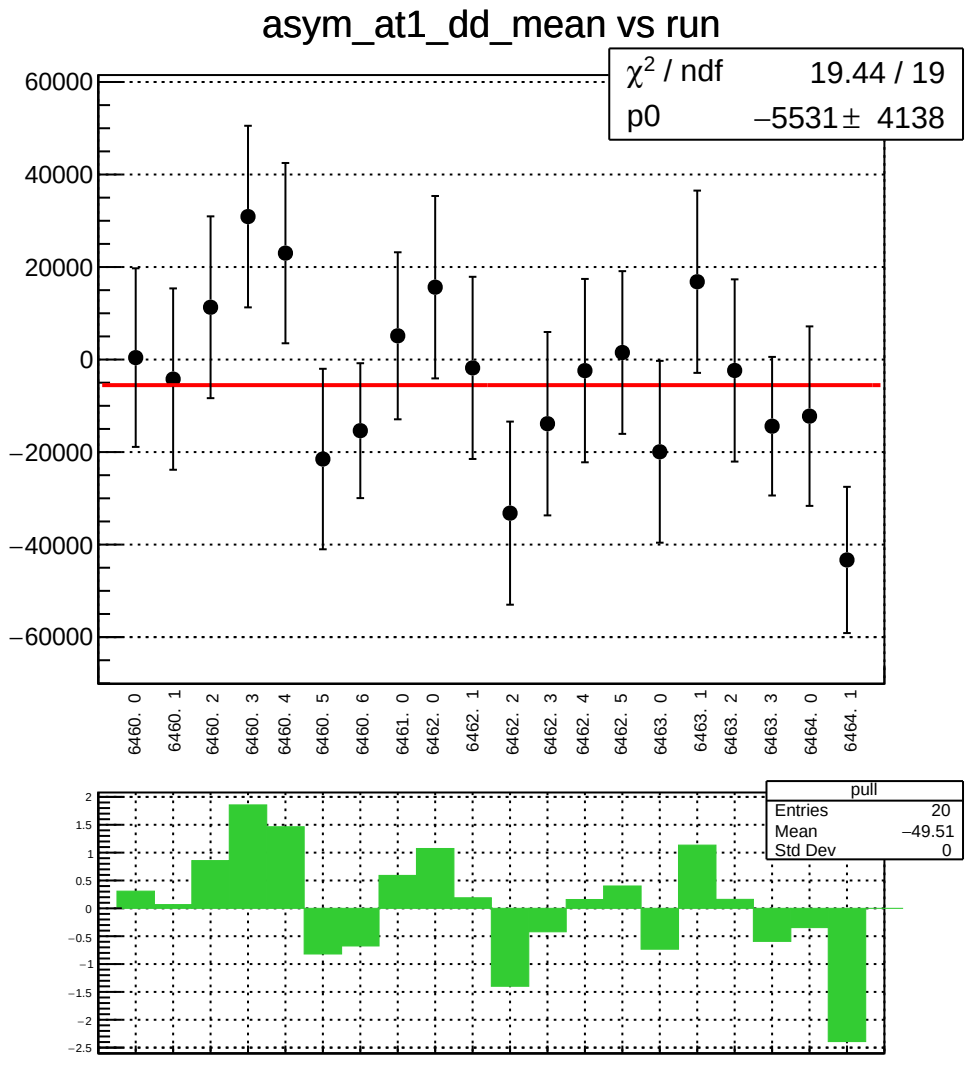

pull1D
Entries 20
Mean 0.0463
Std Dev 0.9944
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

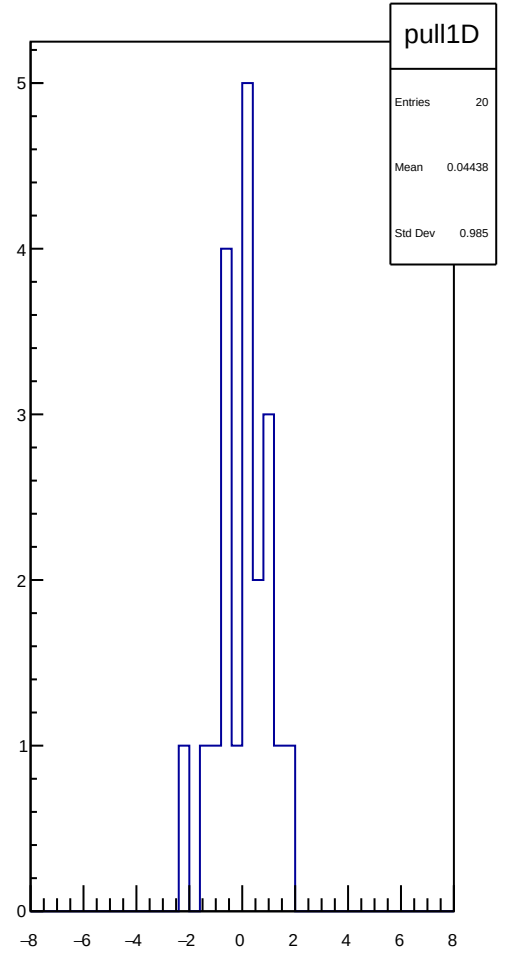

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 21.08 / 19
p0 1803 ± 2.832
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

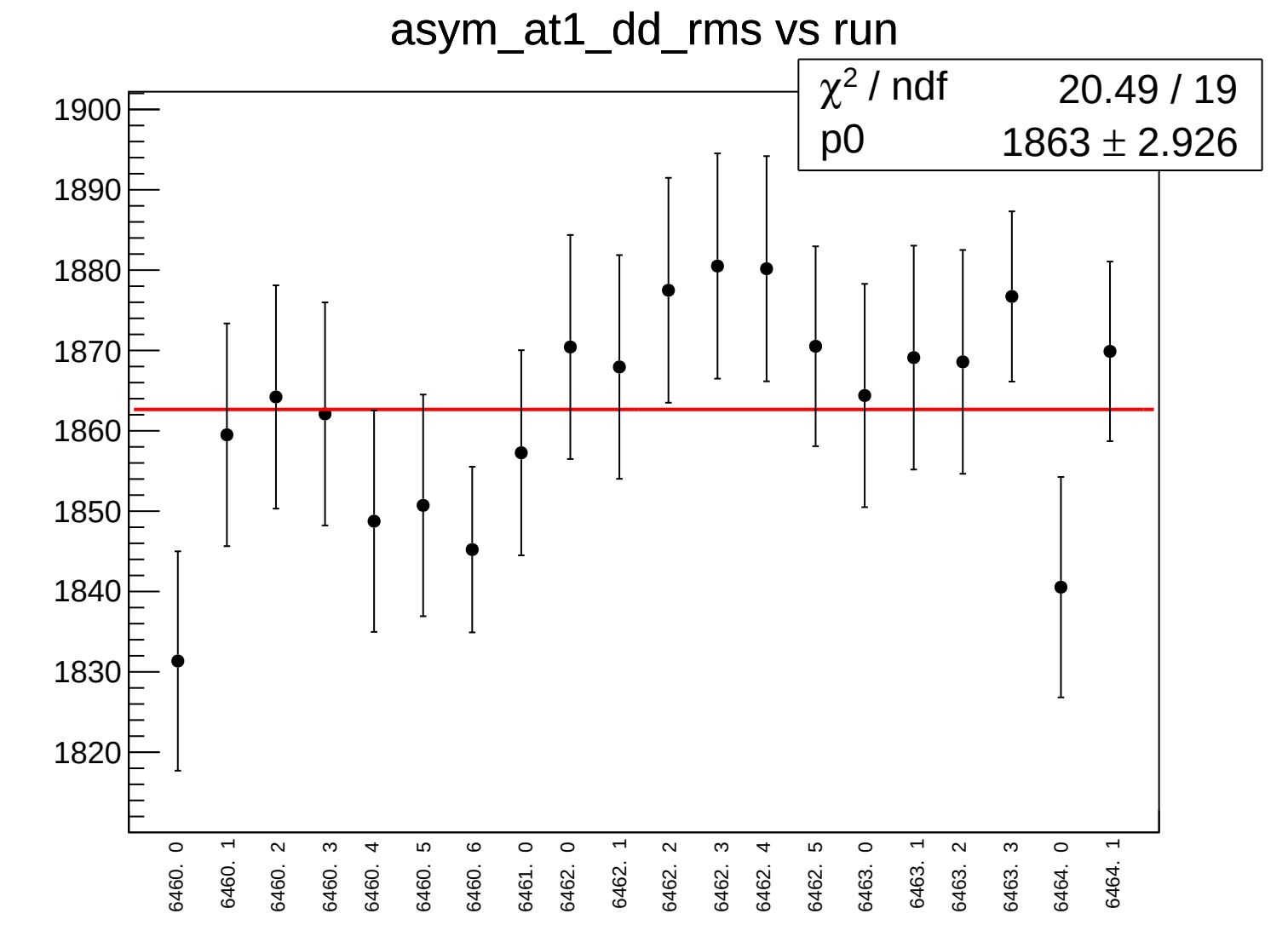

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 8.58 / 19
p0 24.33 ± 1034
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 117.6
Std Dev 0
1
0.5
0
−0.5
−1

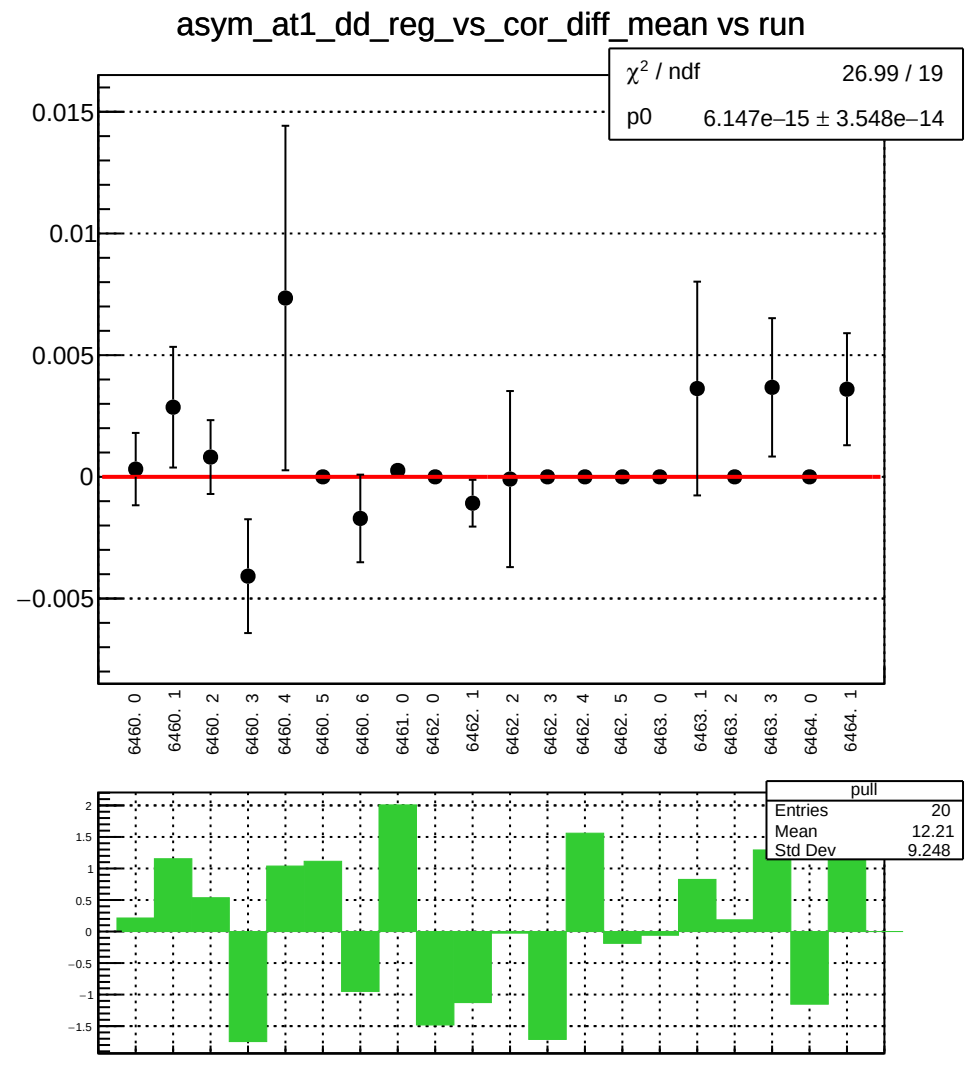

pull1D
Entries 20
Mean −0.005354
Std Dev 0.655
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

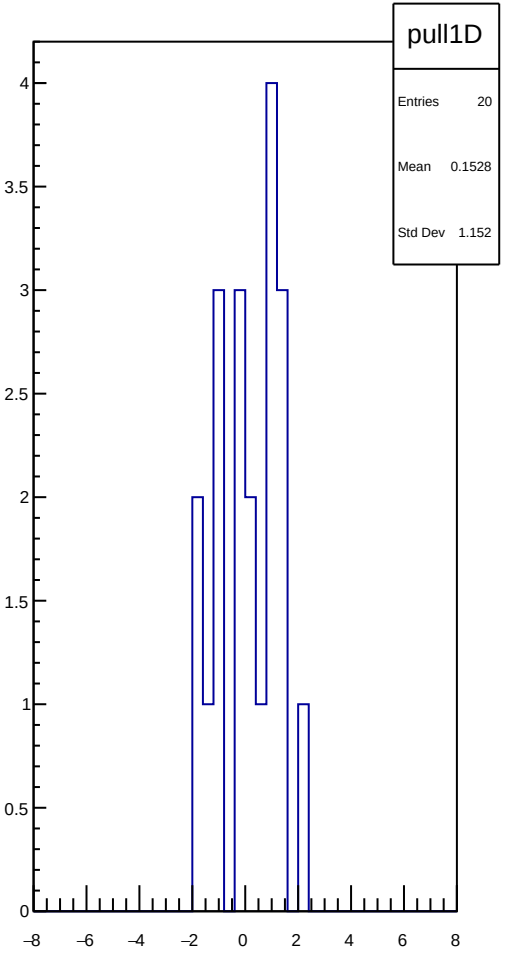

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 764.1 / 19
p0 465 ± 0.7312
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

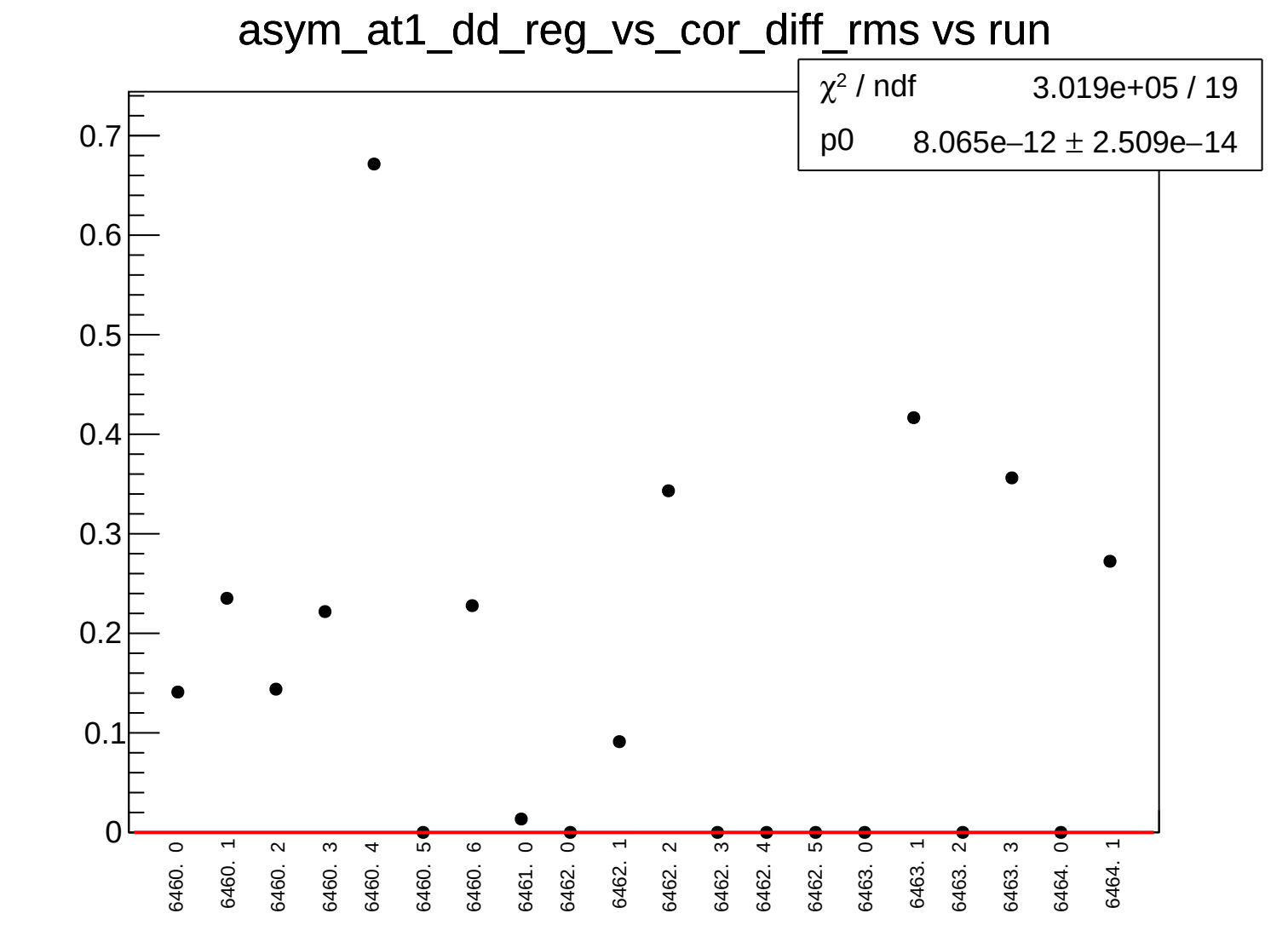

asym_at1_dd_mean vs run
χ² / ndf 19.44 / 19
p0 −5531 ± 4138
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

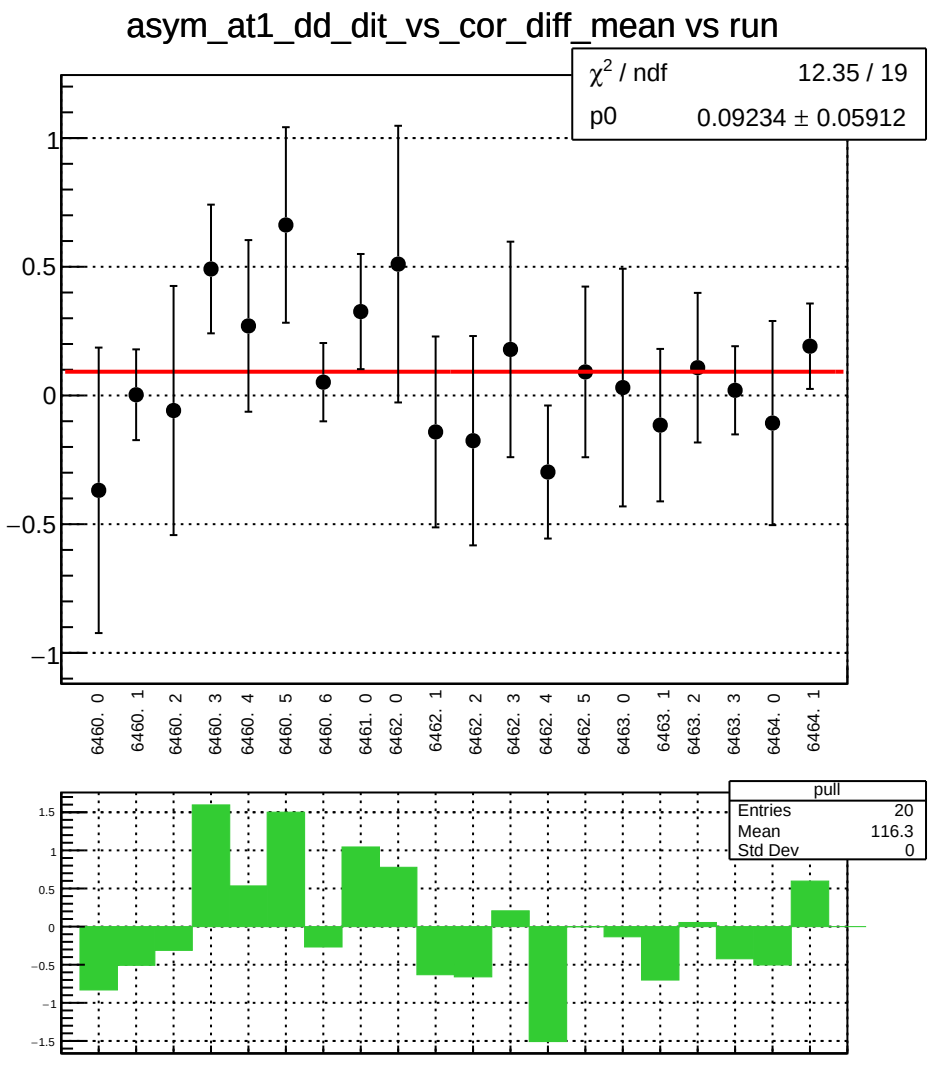

pull1D
Entries 20
Mean 0.04438
Std Dev 0.985
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

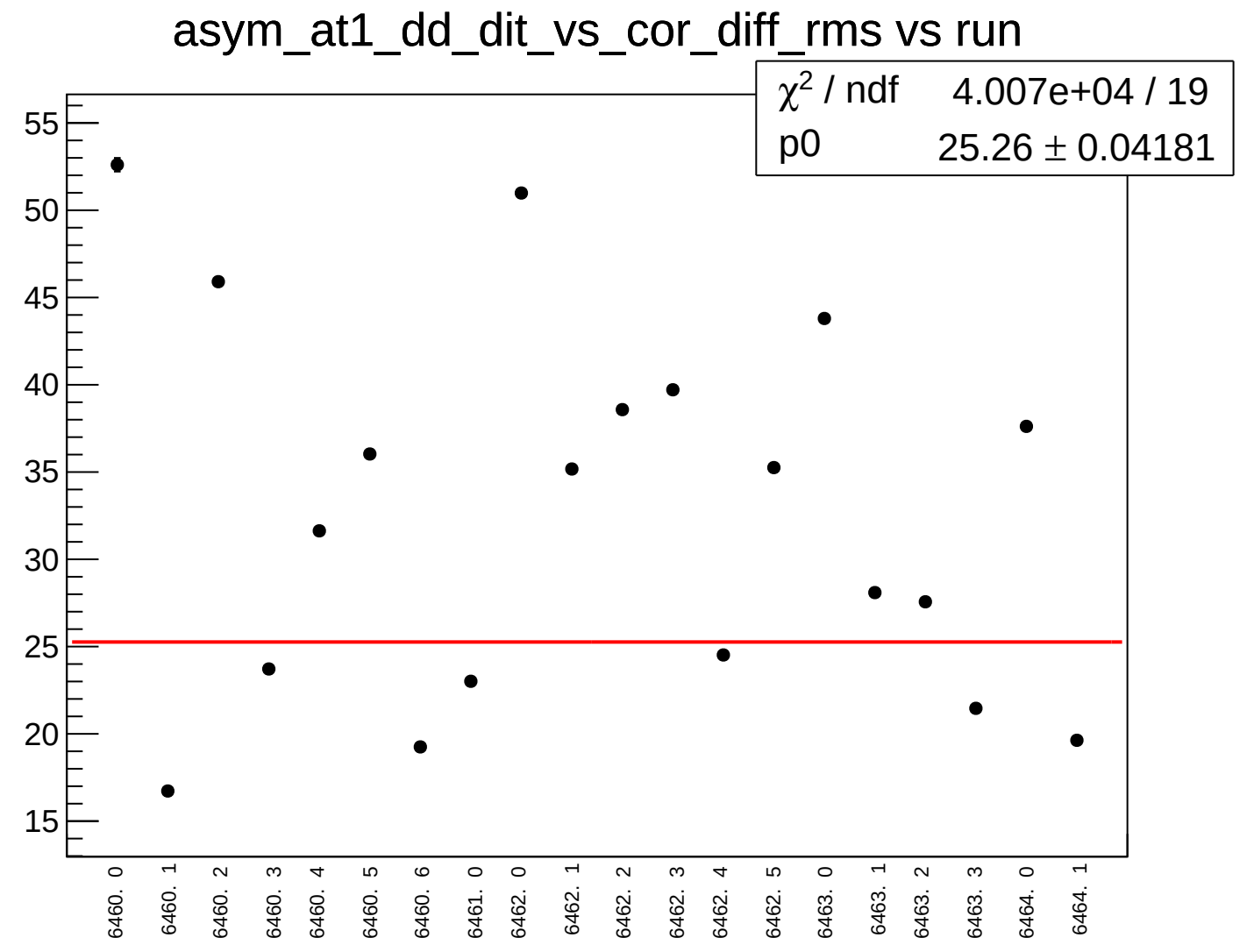

asym_at1_dd_rms vs run
χ² / ndf 20.49 / 19
p0 1863 ± 2.926
1900
1890
1880
1870
1860
1850
1840
1830
1820
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

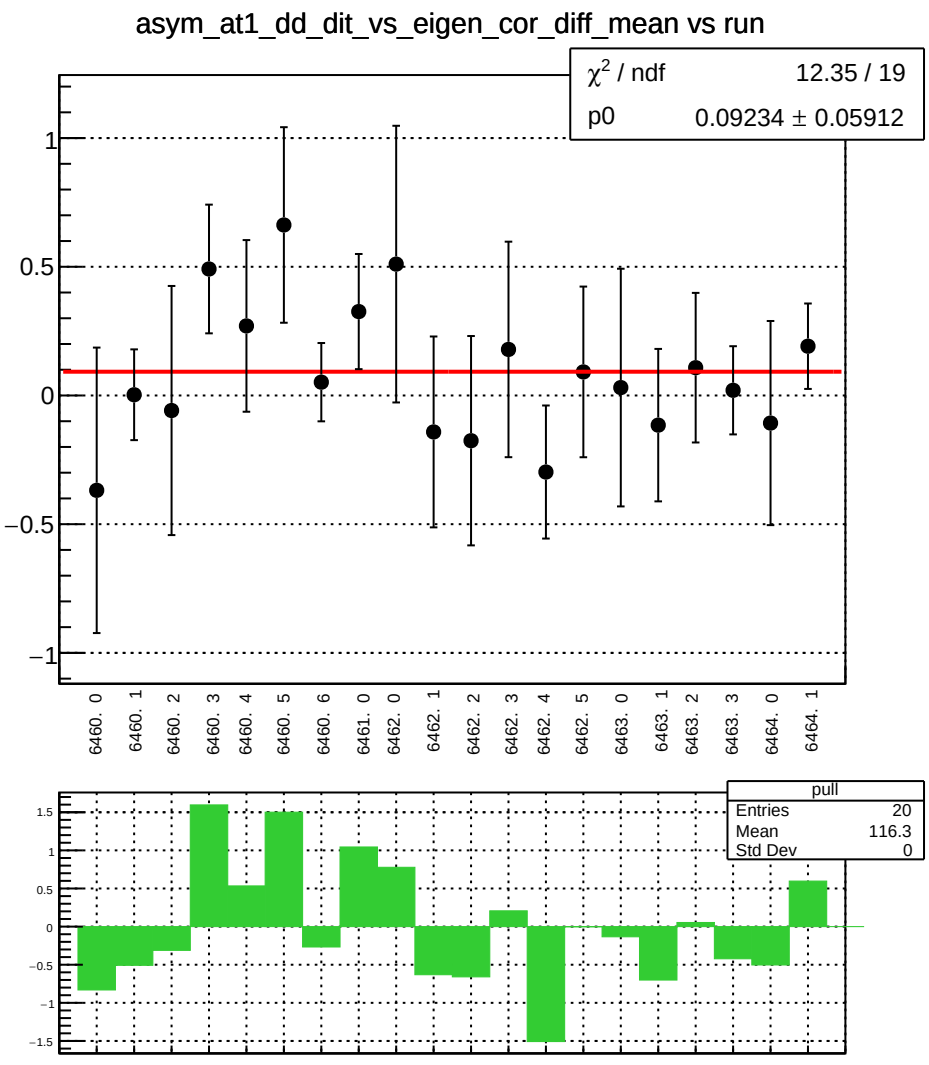

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 26.99 / 19
p0 6.147e−15 ± 3.548e−14
0.015
0.01
0.005
0
−0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.21
Std Dev 9.248
2
1.5
1
0.5
0
−0.5
−1
−1.5

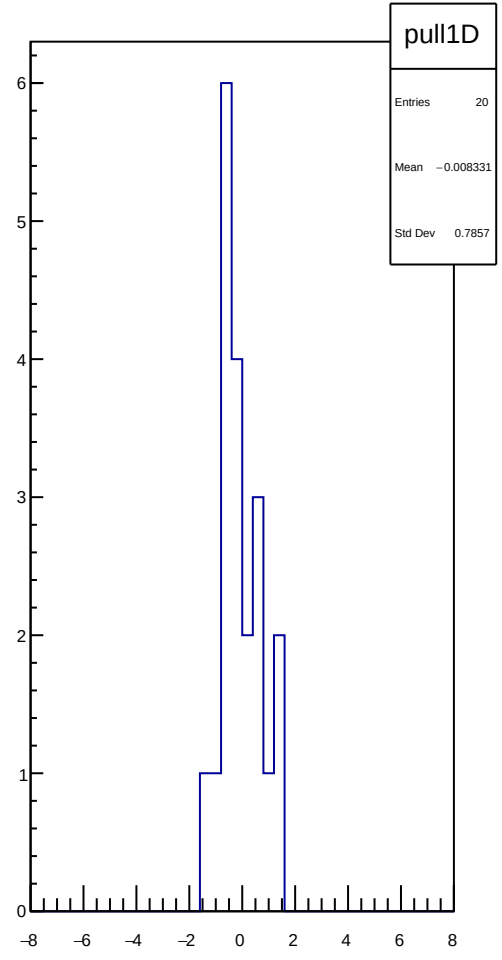

pull1D
Entries 20
Mean 0.1528
Std Dev 1.152
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

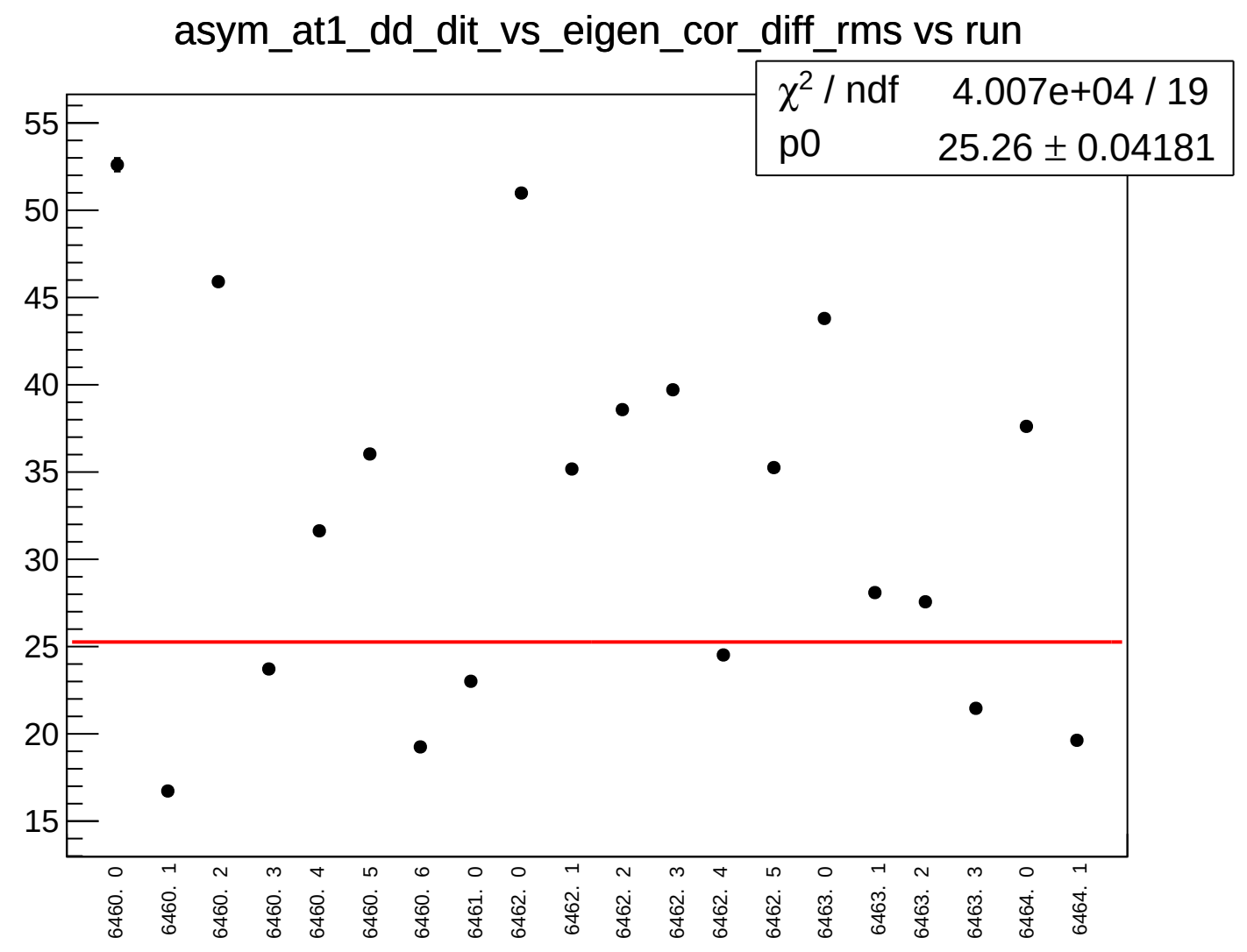

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.019e+05 / 19
p0 8.065e−12 ± 2.509e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

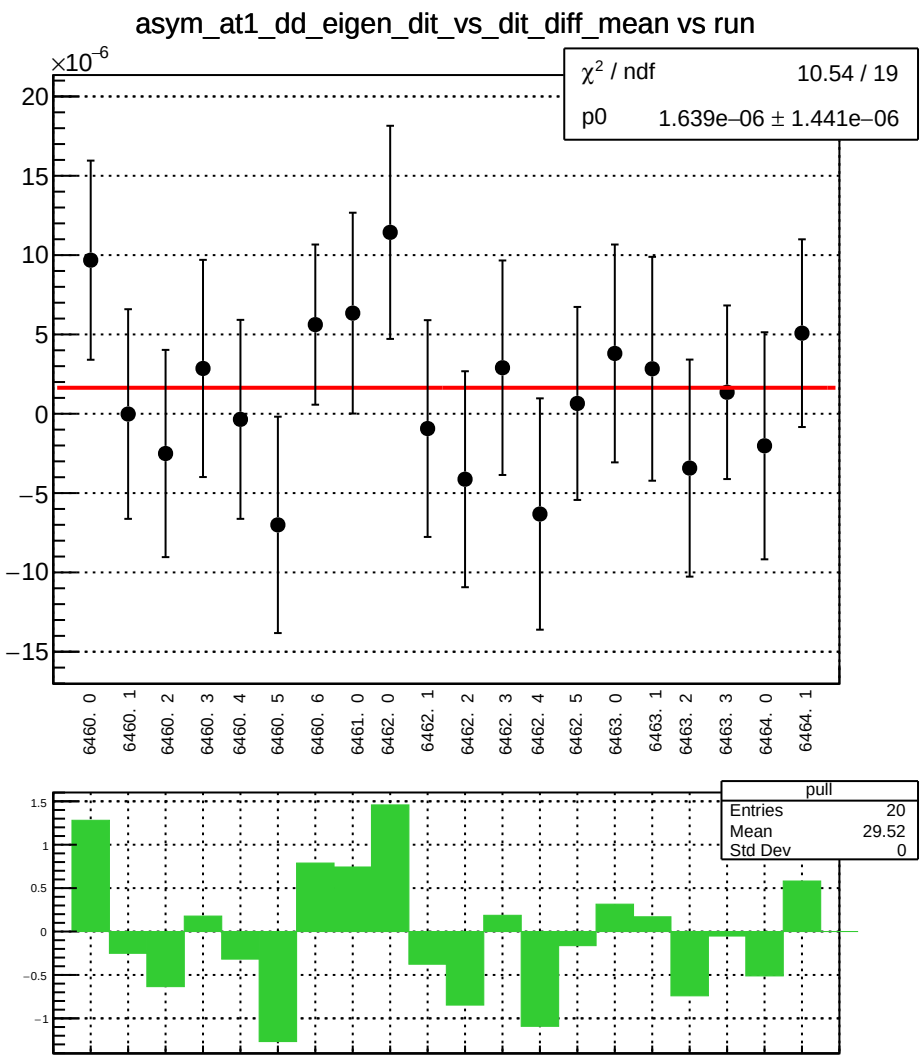

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 12.35 / 19
p0 0.09234 ± 0.05912
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 116.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.008331
Std Dev 0.7857
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

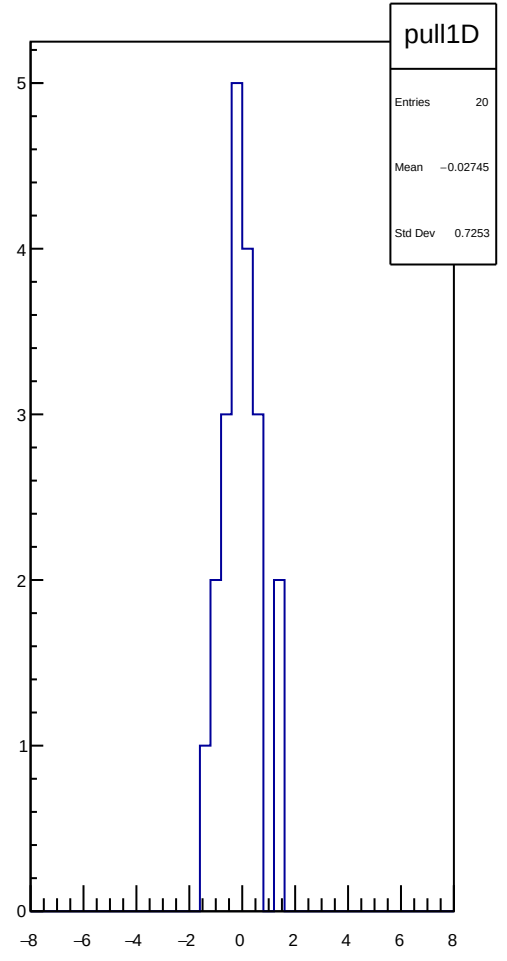

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.007e+04 / 19
p0 25.26 ± 0.04181
55
50
45
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

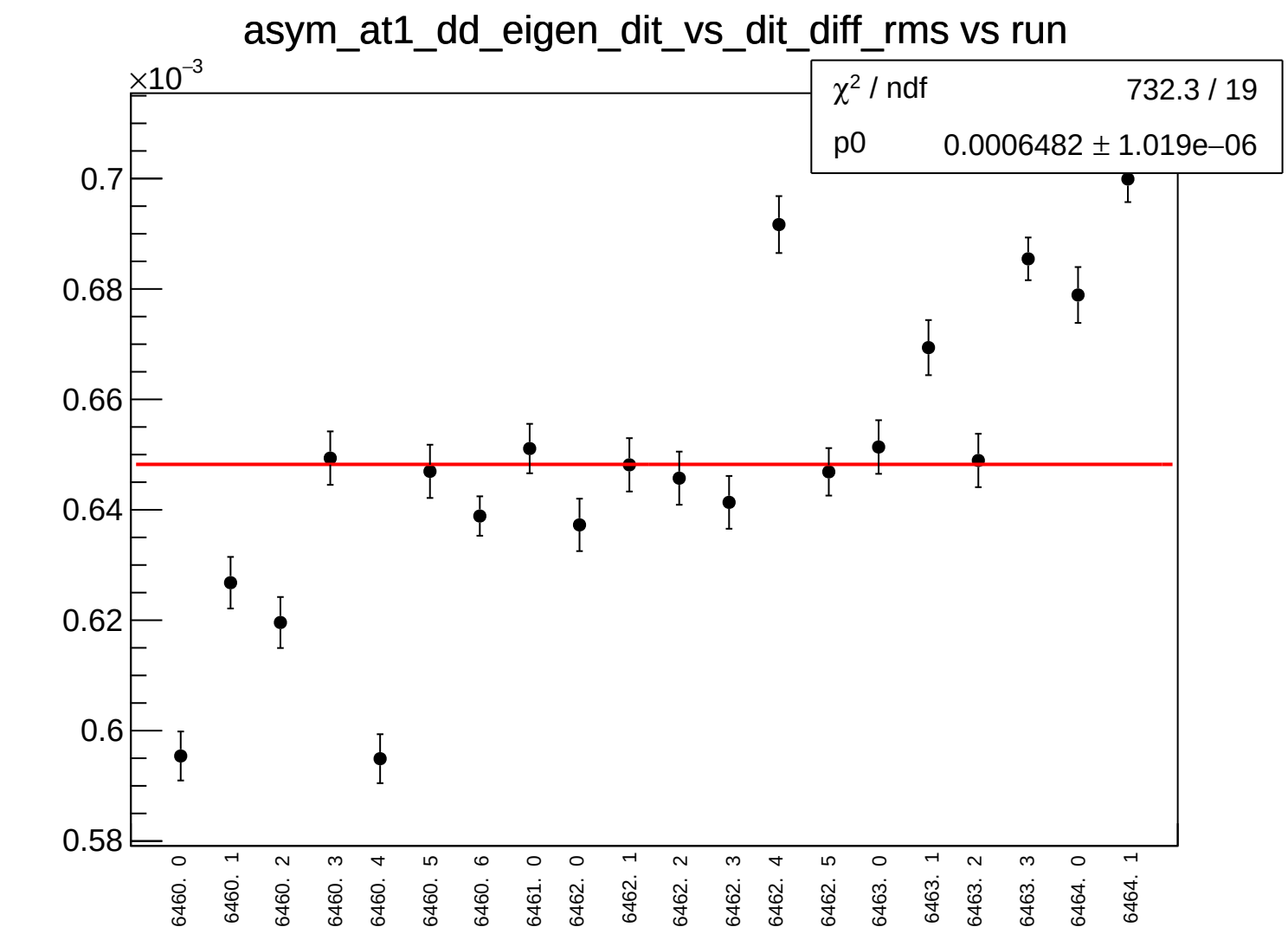

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.35 / 19
p0 0.09234 ± 0.05912
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 116.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

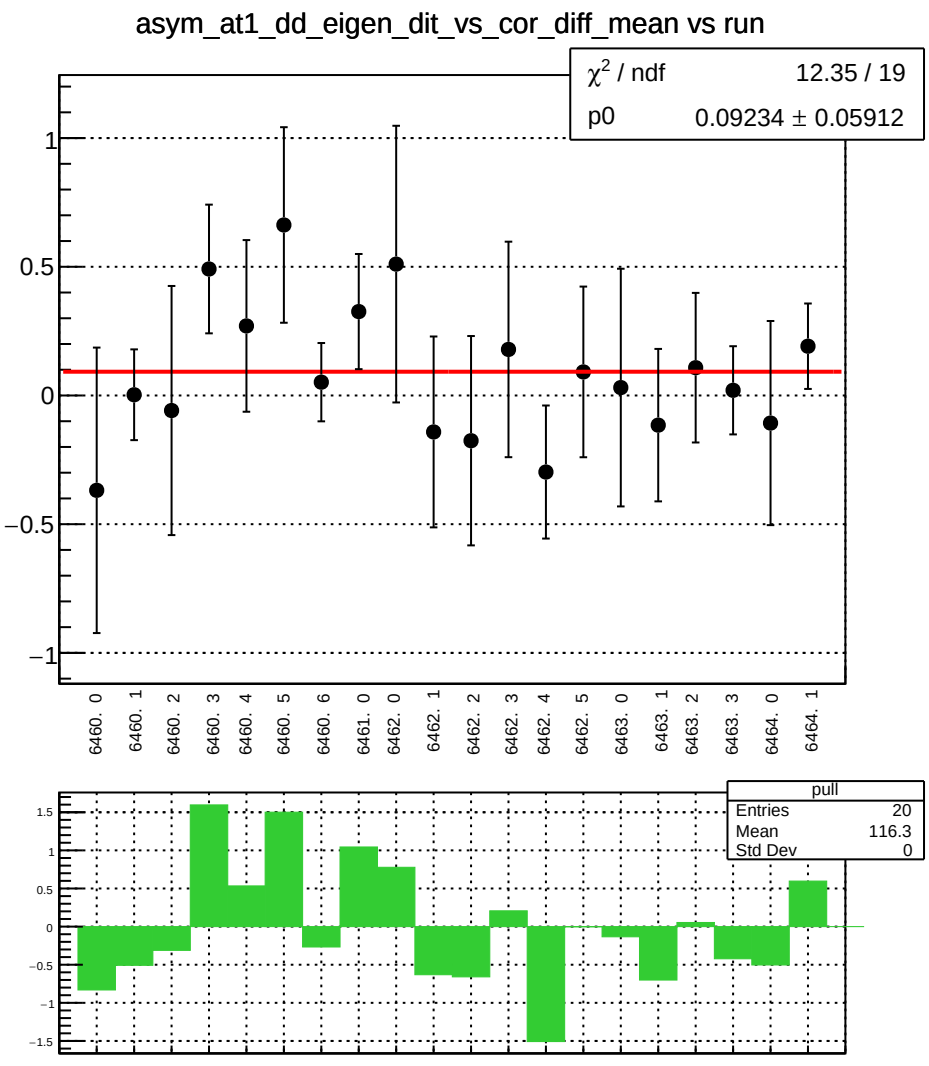

pull1D
Entries 20
Mean −0.008331
Std Dev 0.7857
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

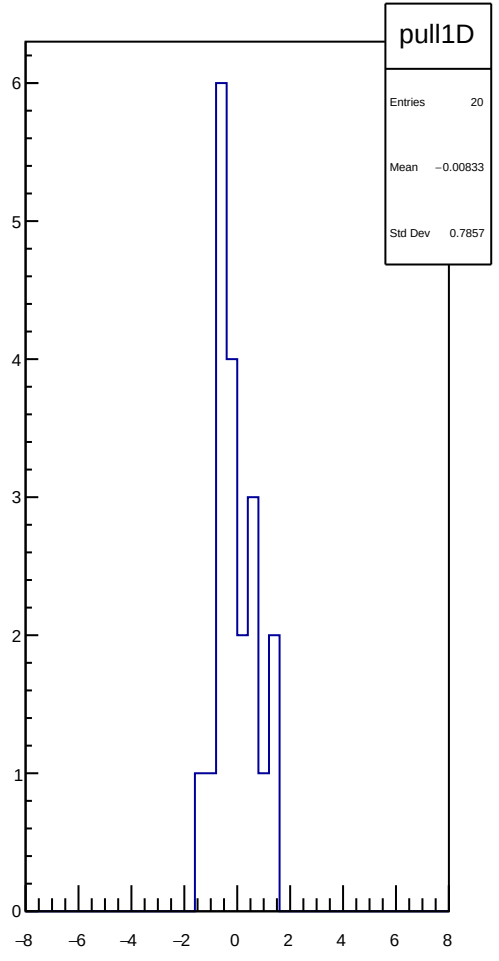

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.007e+04 / 19
p0 25.26 ± 0.04181
55
50
45
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

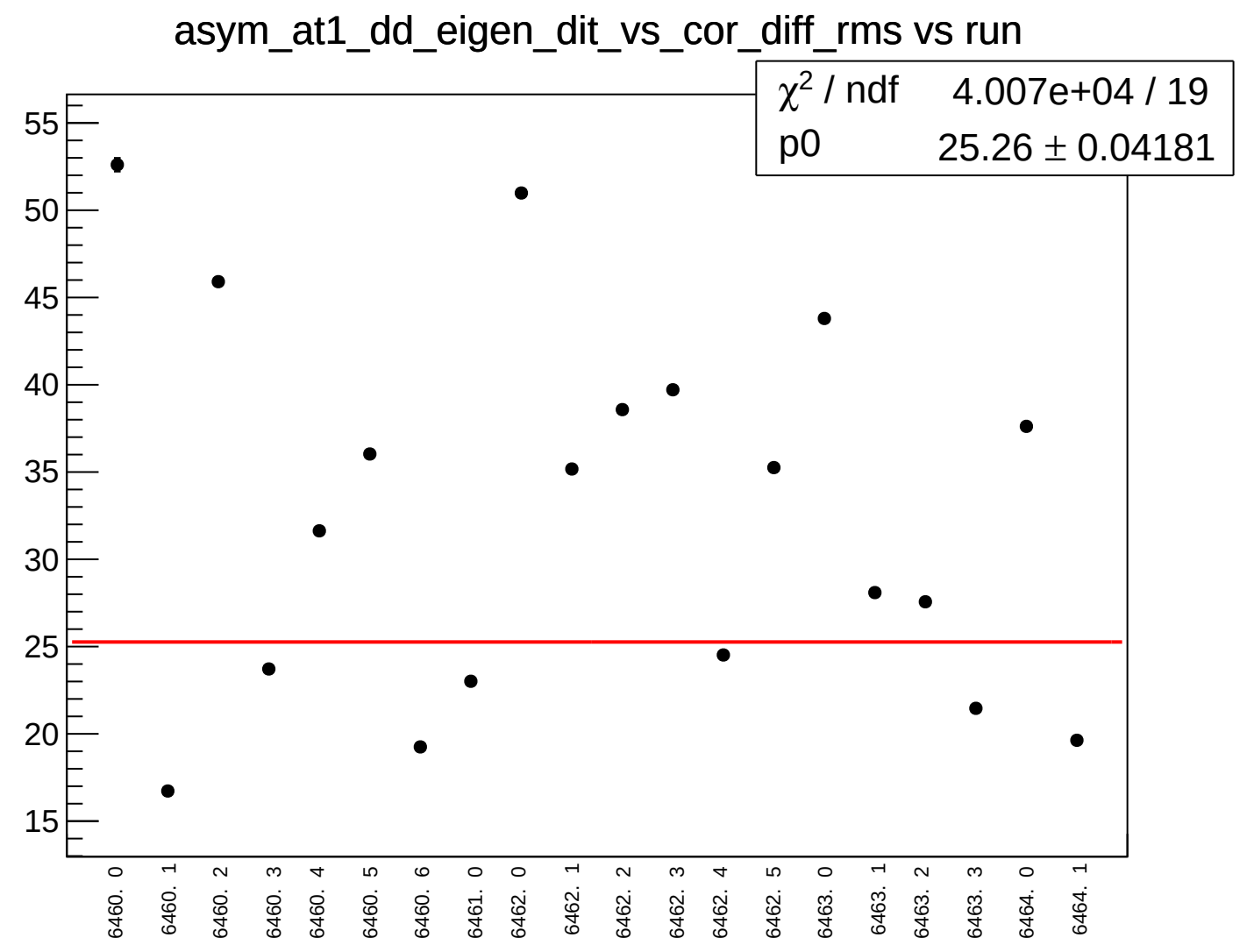

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 10.54 / 19
p0 1.639e−06 ± 1.441e−06
20
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1

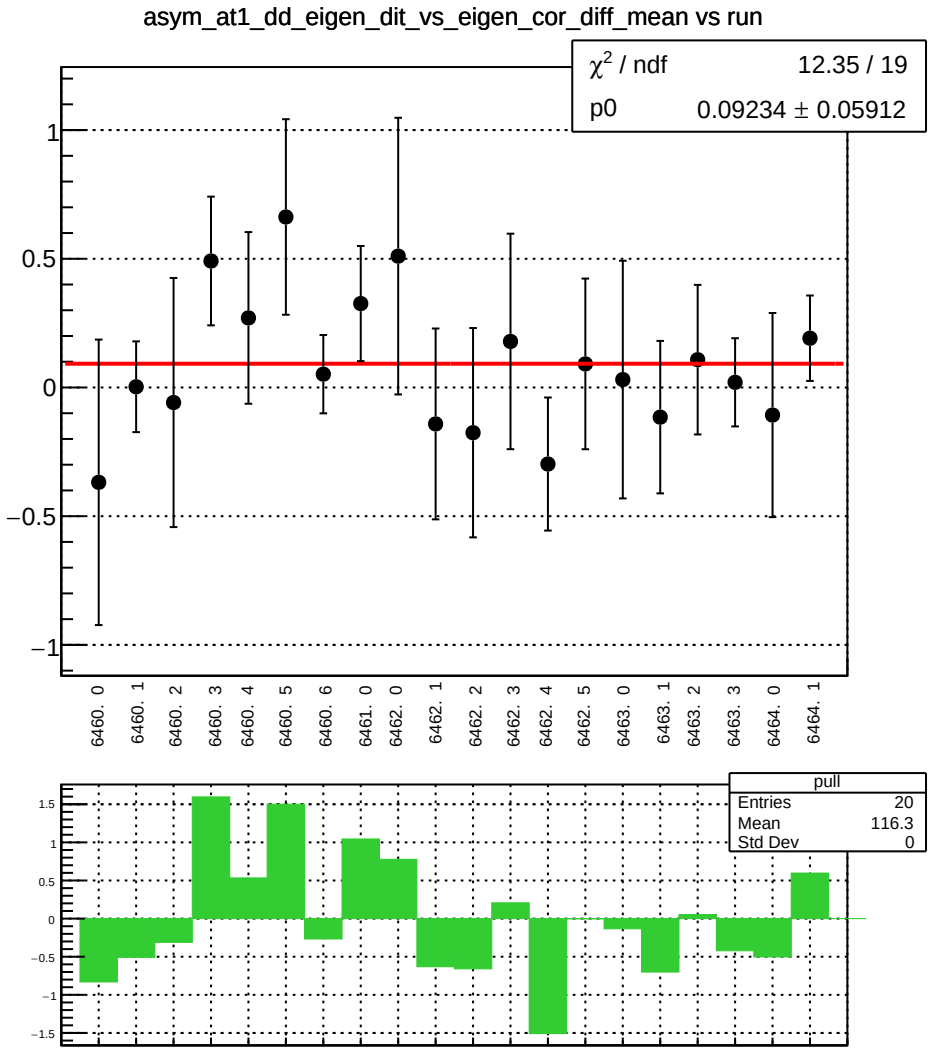

pull1D
Entries 20
Mean −0.02745
Std Dev 0.7253
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

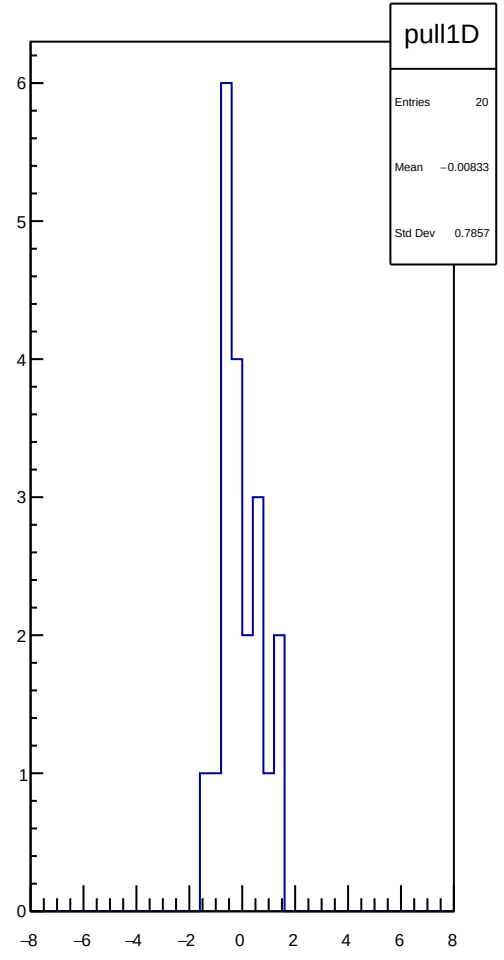

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 732.3 / 19
p0 0.0006482 ± 1.019e−06
0.7
0.68
0.66
0.64
0.62
0.6
0.58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

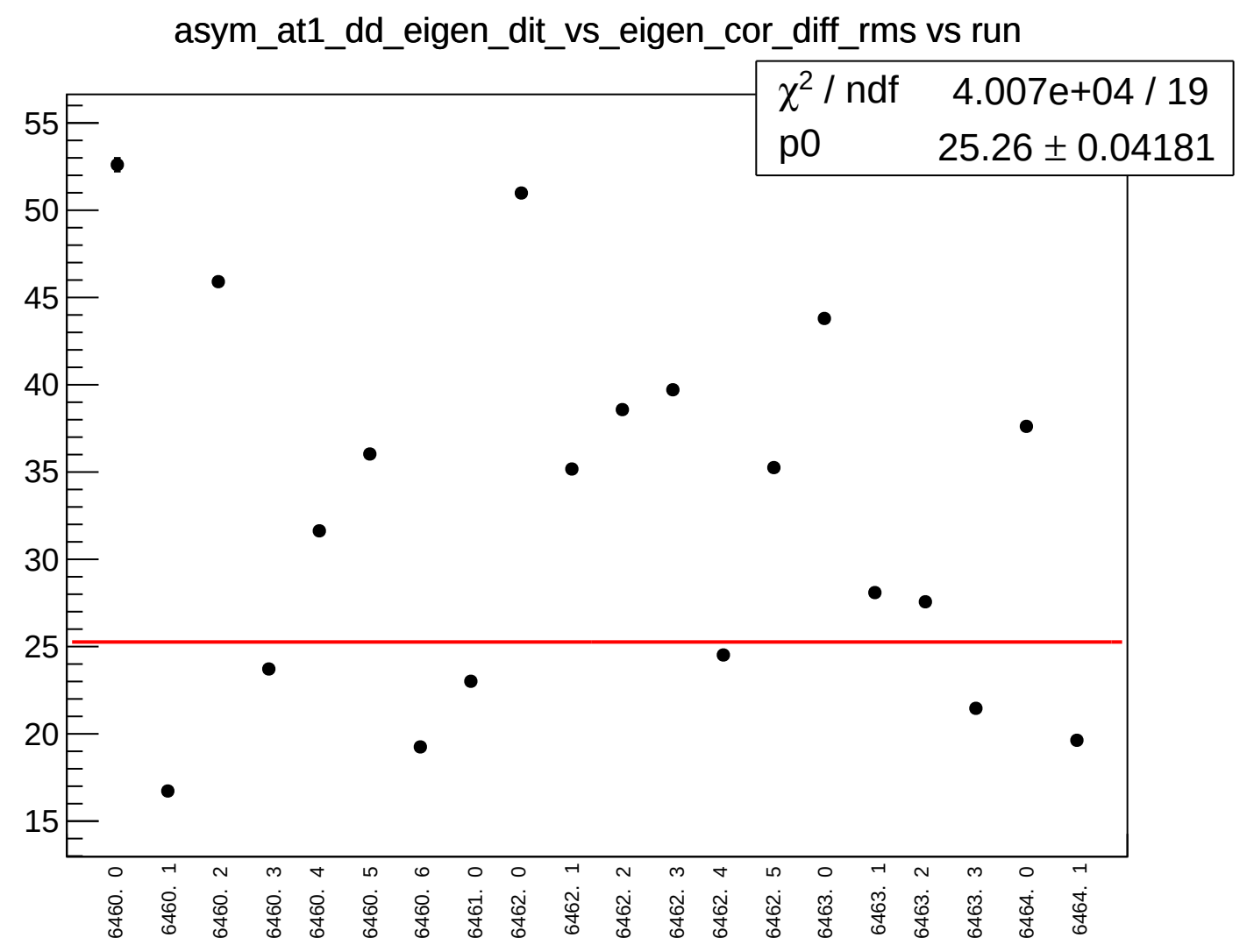

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 12.35 / 19
p0 0.09234 ± 0.05912
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 116.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

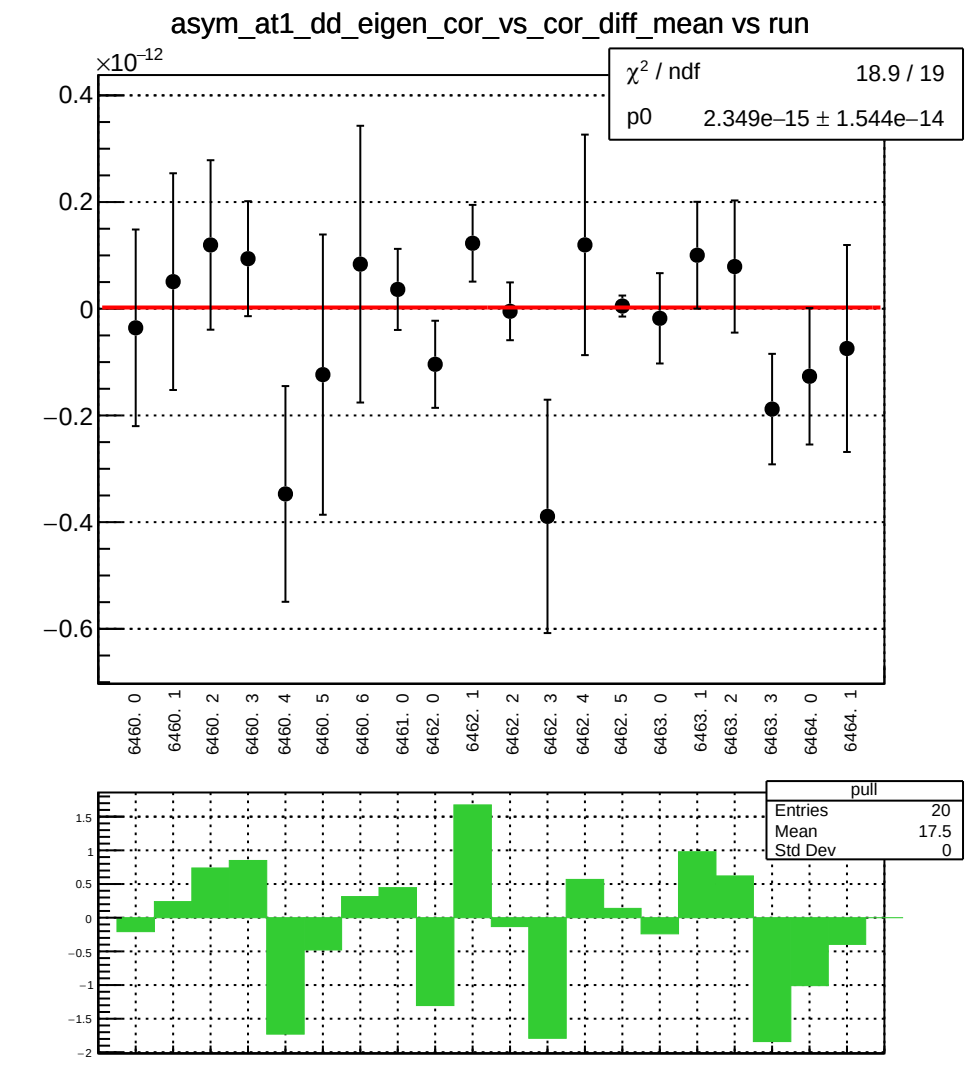

pull1D
Entries 20
Mean −0.00833
Std Dev 0.7857
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

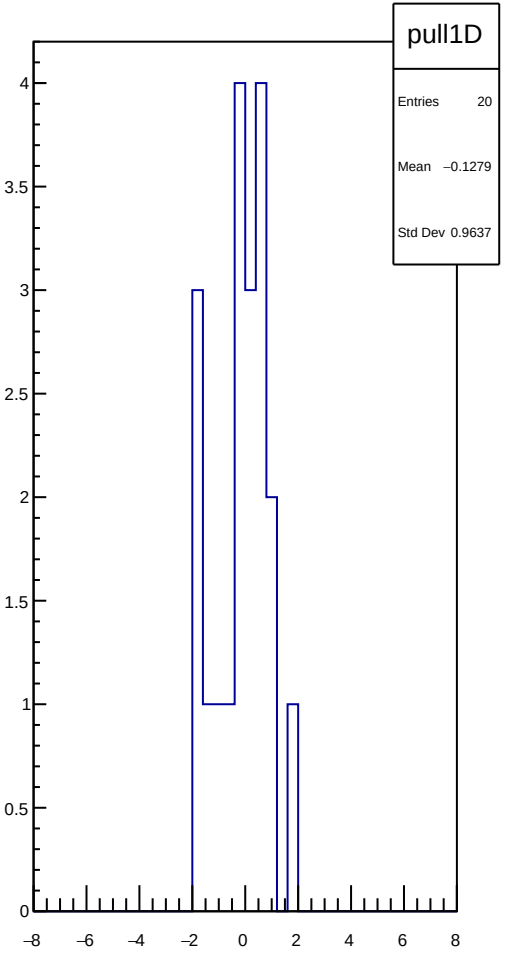

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.007e+04 / 19
p0 25.26 ± 0.04181
55
50
45
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

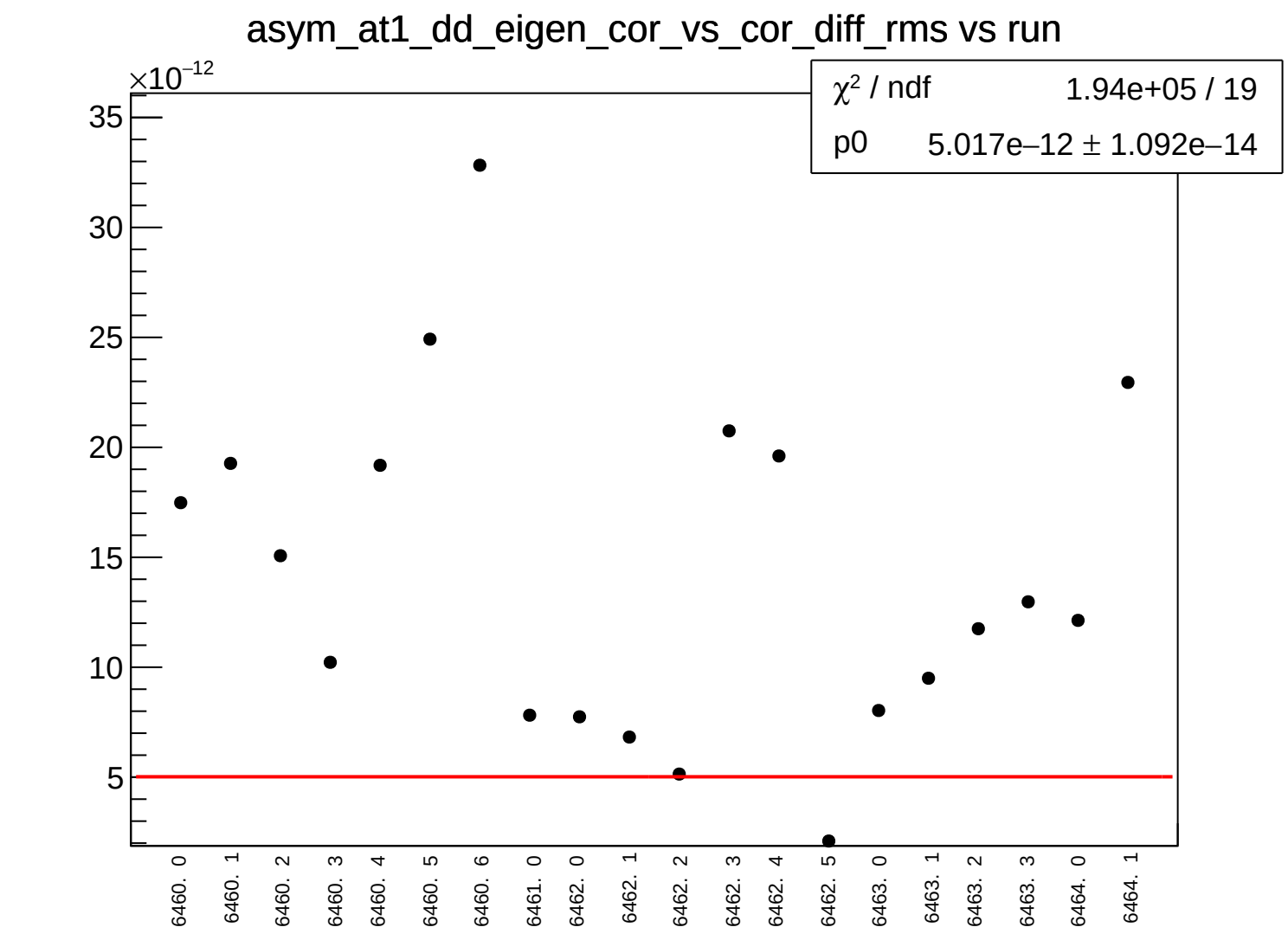

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.35 / 19
p0 0.09234 ± 0.05912
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 116.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

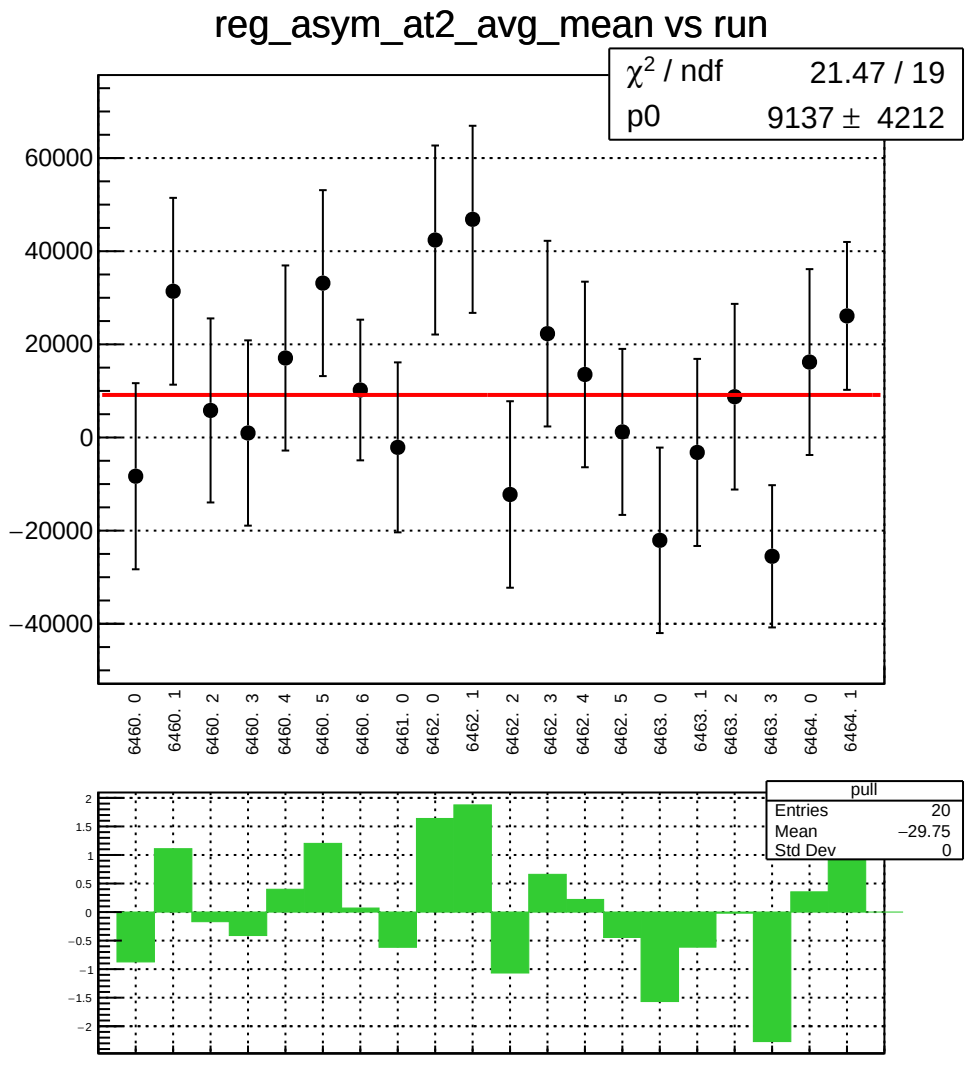

pull1D
Entries 20
Mean −0.00833
Std Dev 0.7857
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

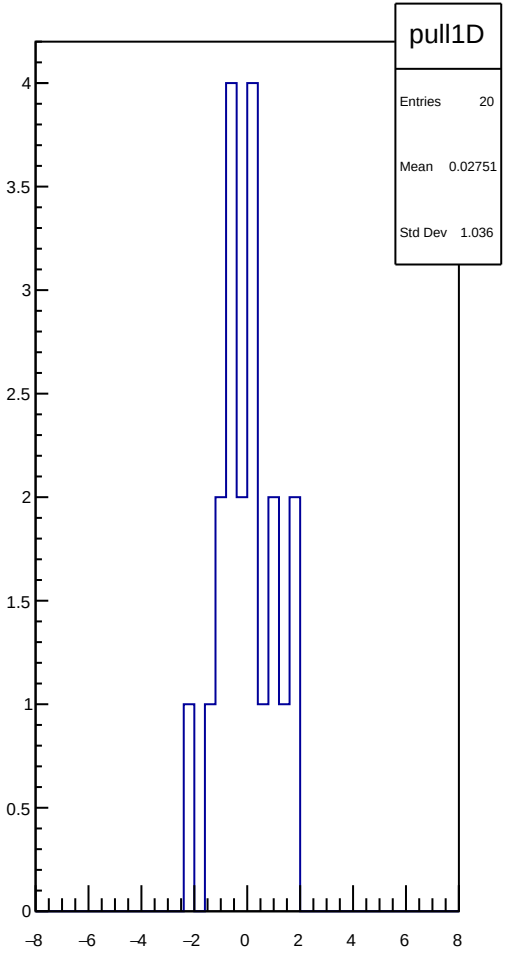

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.007e+04 / 19
p0 25.26 ± 0.04181
55
50
45
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

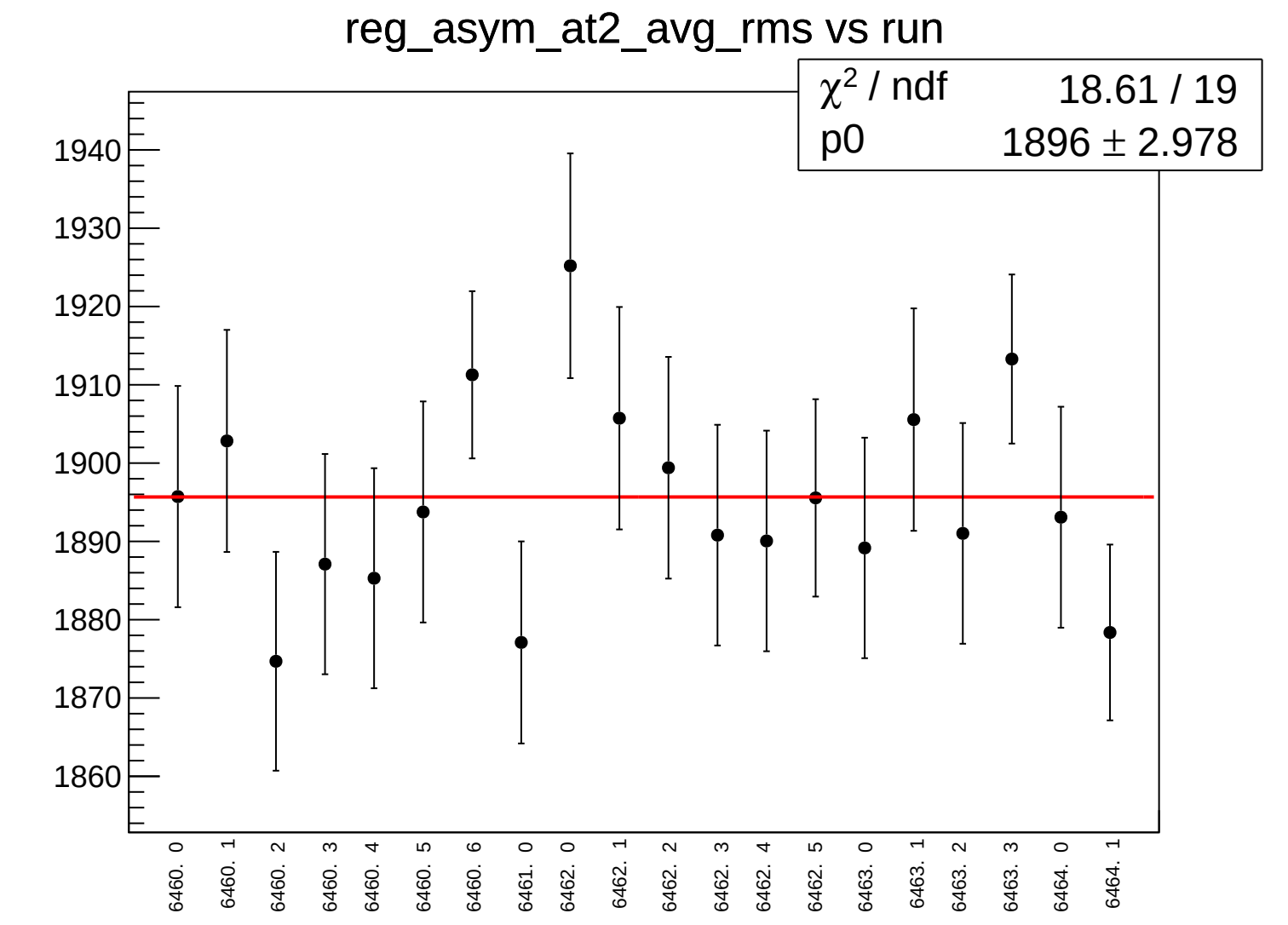

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.9 / 19
p0 2.349e−15 ± 1.544e−14
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 17.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

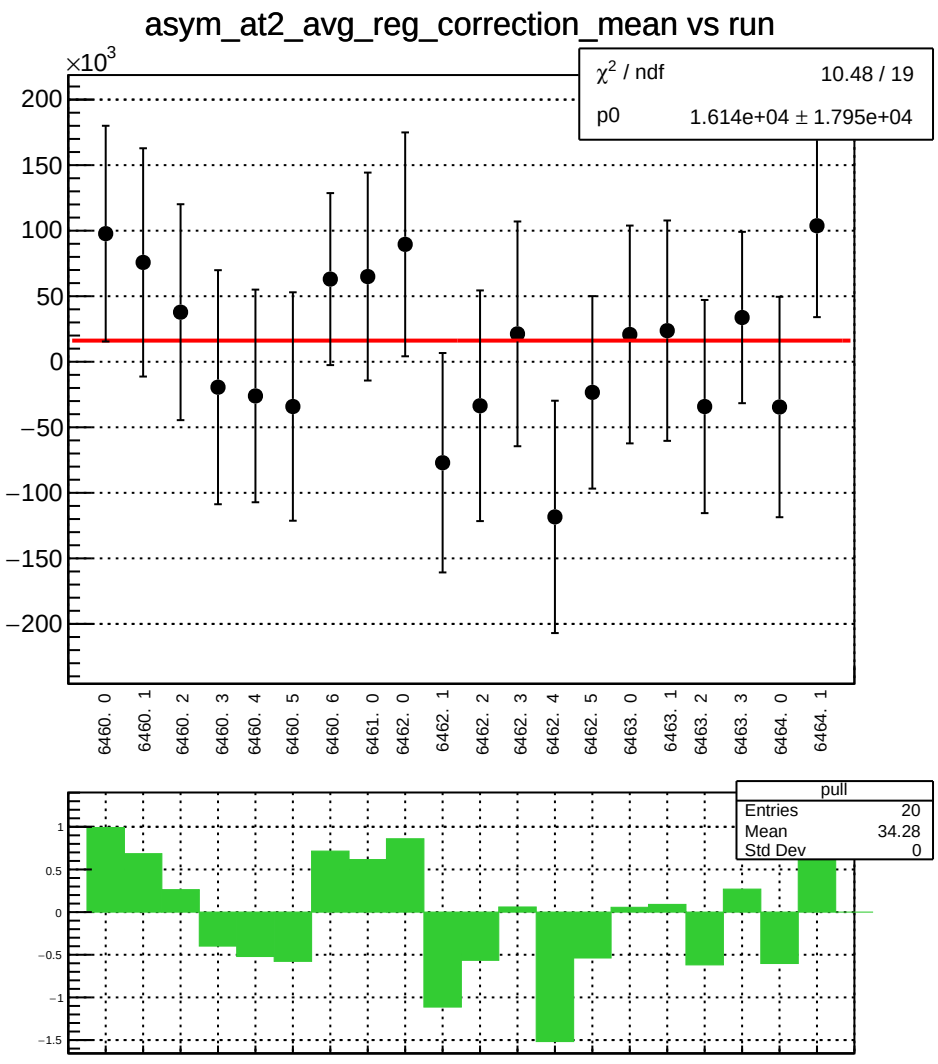

pull1D
Entries 20
Mean −0.1279
Std Dev 0.9637
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

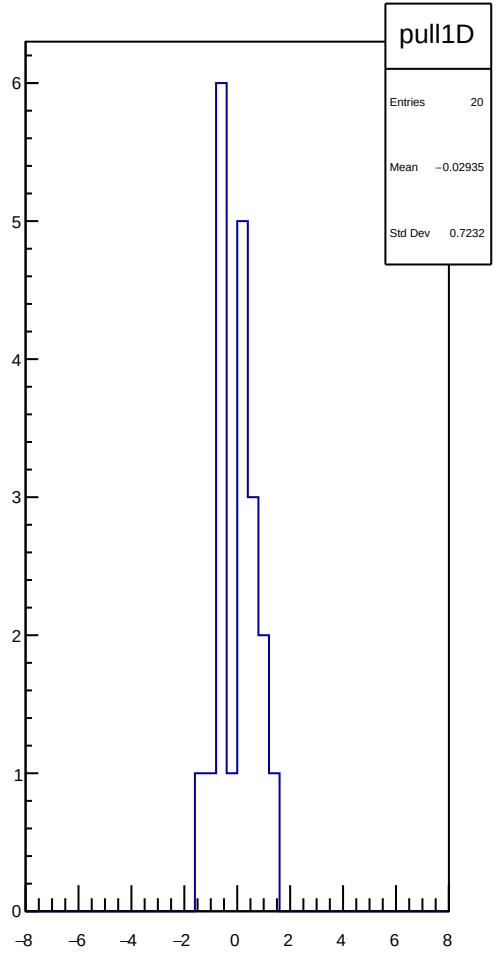

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.94e+05 / 19
p0 5.017e−12 ± 1.092e−14
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

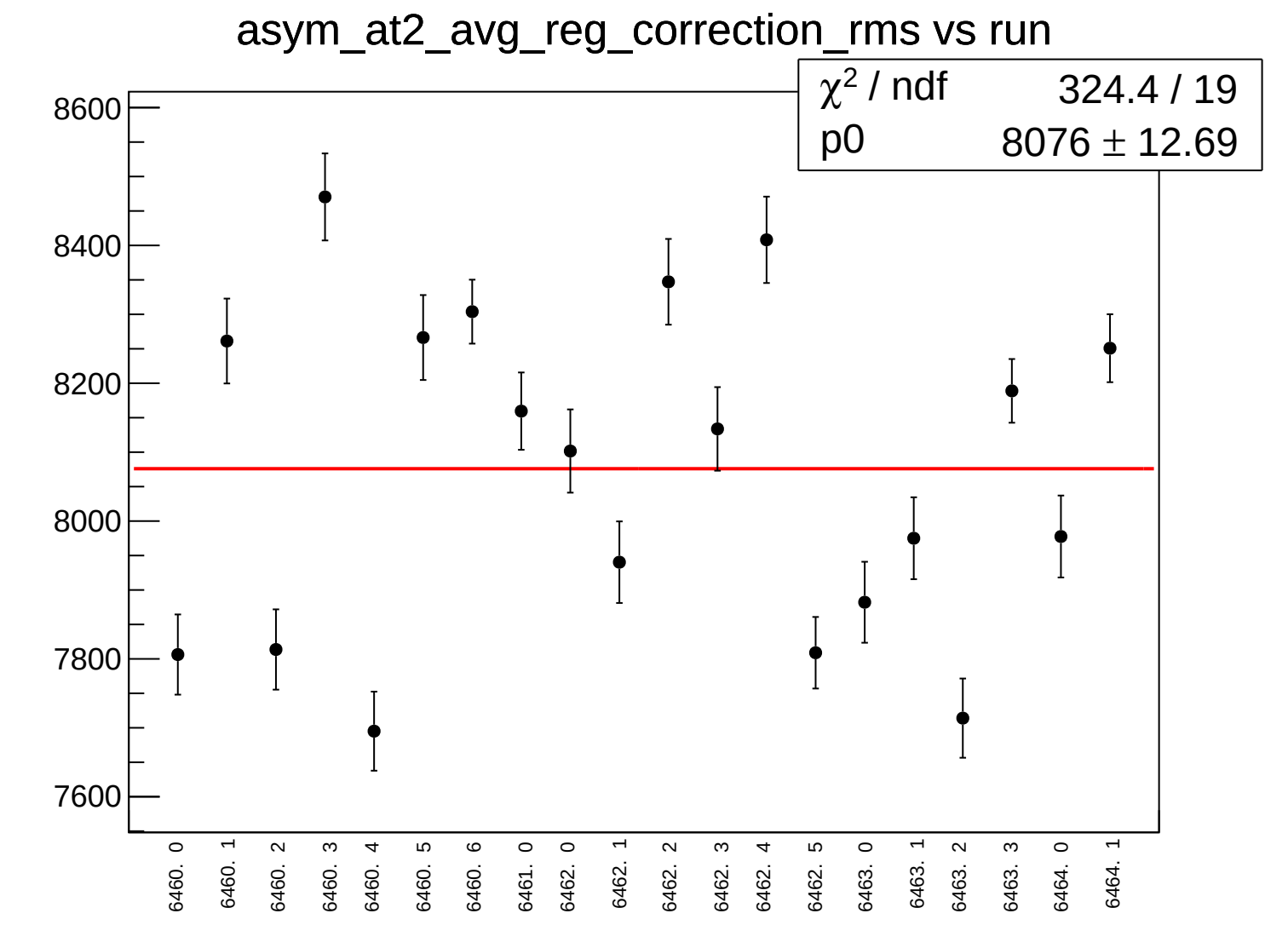

reg_asym_at2_avg_mean vs run
χ² / ndf 21.47 / 19
p0 9137 ± 4212
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

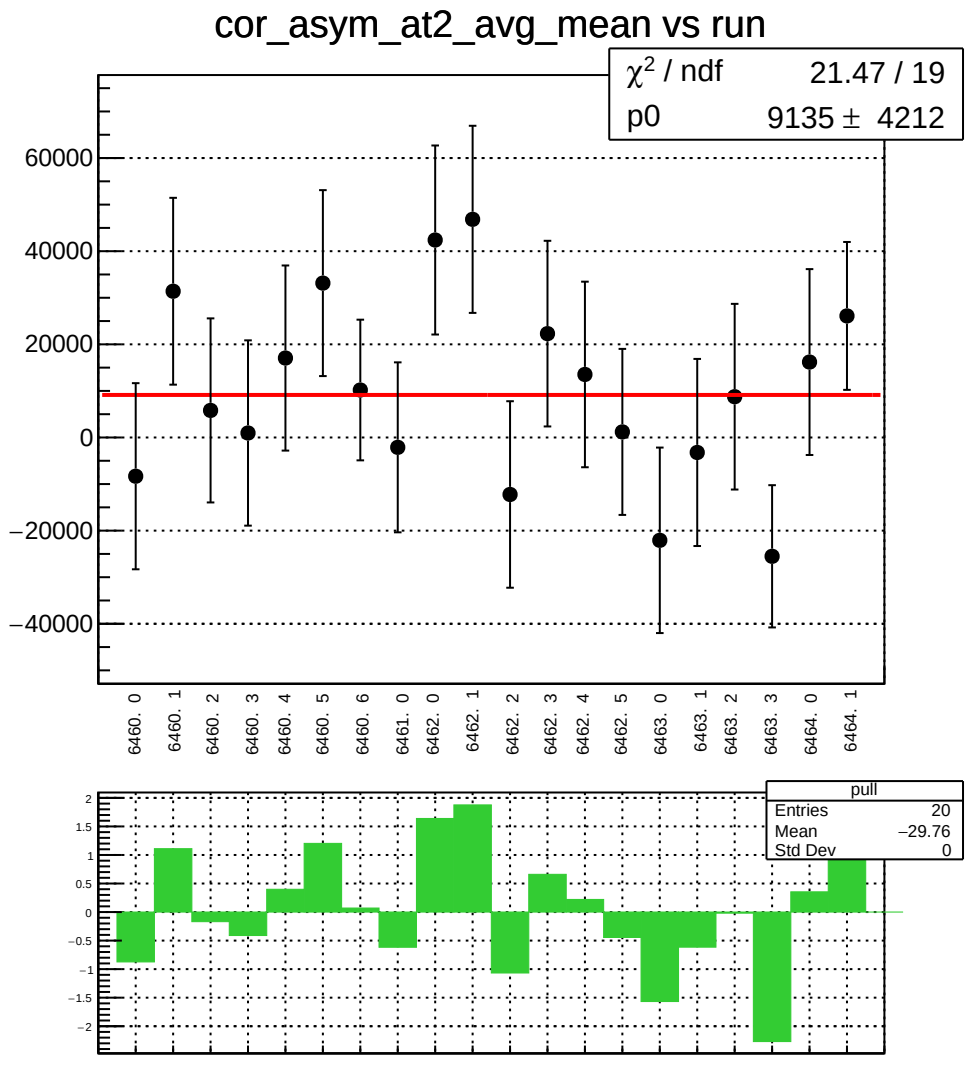

pull1D
Entries 20
Mean 0.02751
Std Dev 1.036
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

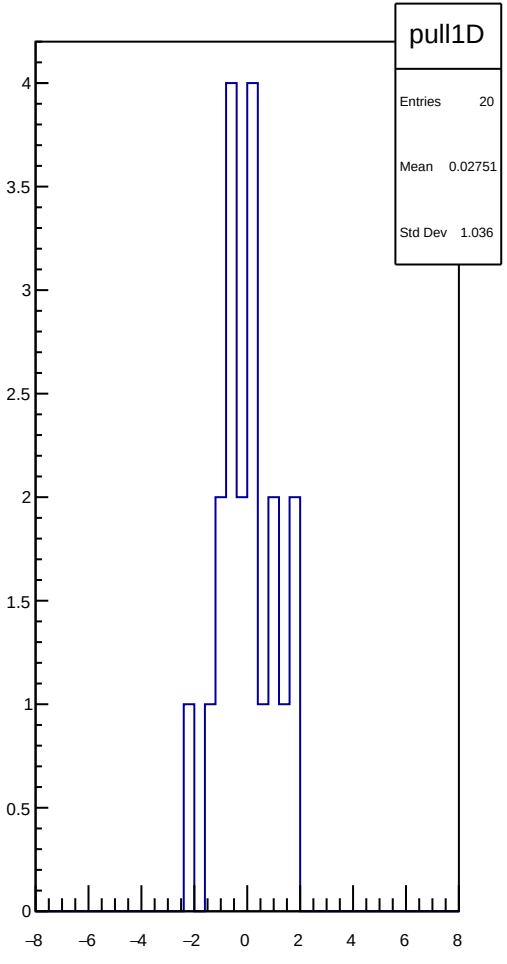

reg_asym_at2_avg_rms vs run
χ² / ndf 18.61 / 19
p0 1896 ± 2.978
1940
1930
1920
1910
1900
1890
1880
1870
1860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

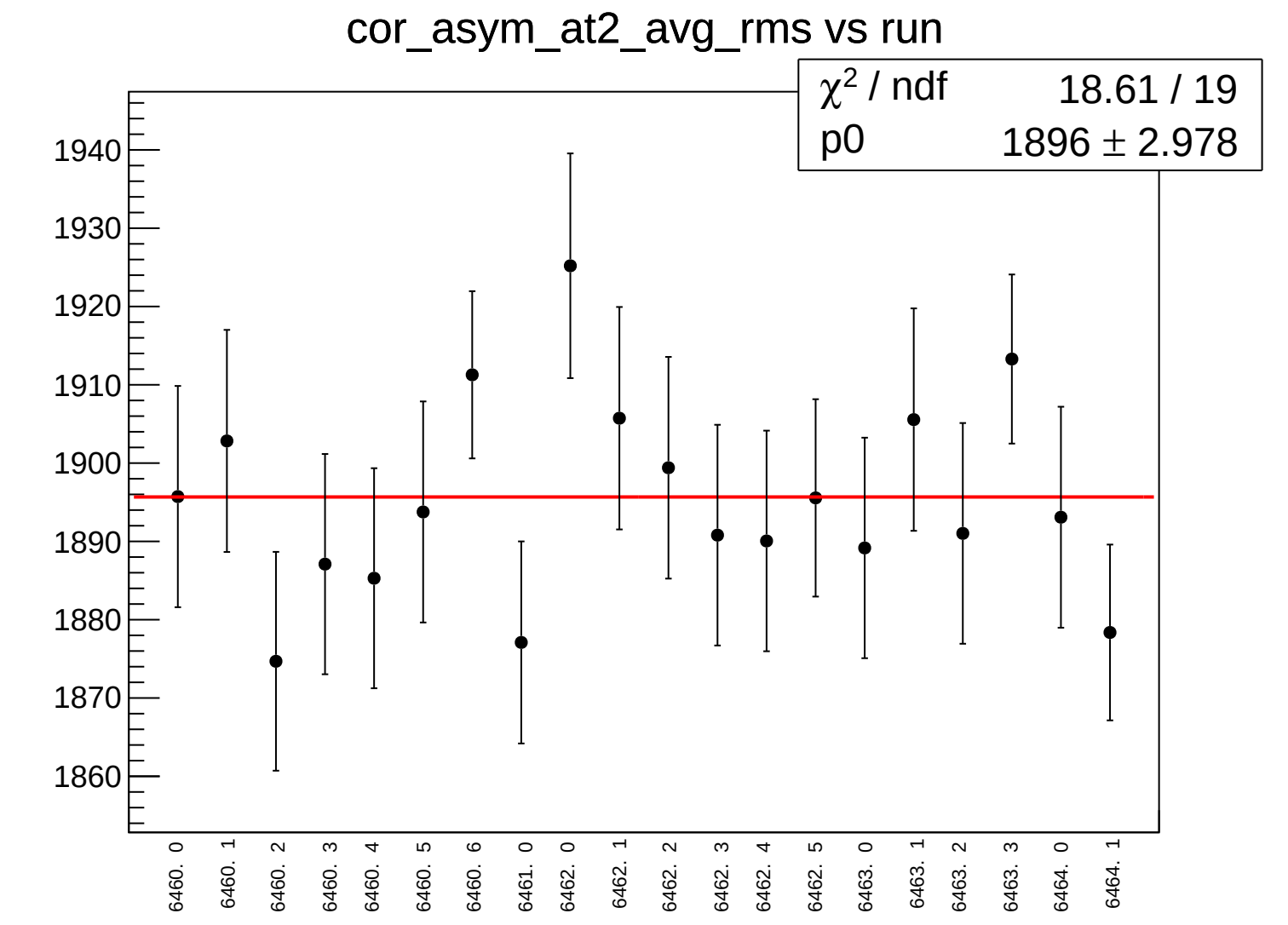

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 10.48 / 19
p0 1.614e+04 ± 1.795e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

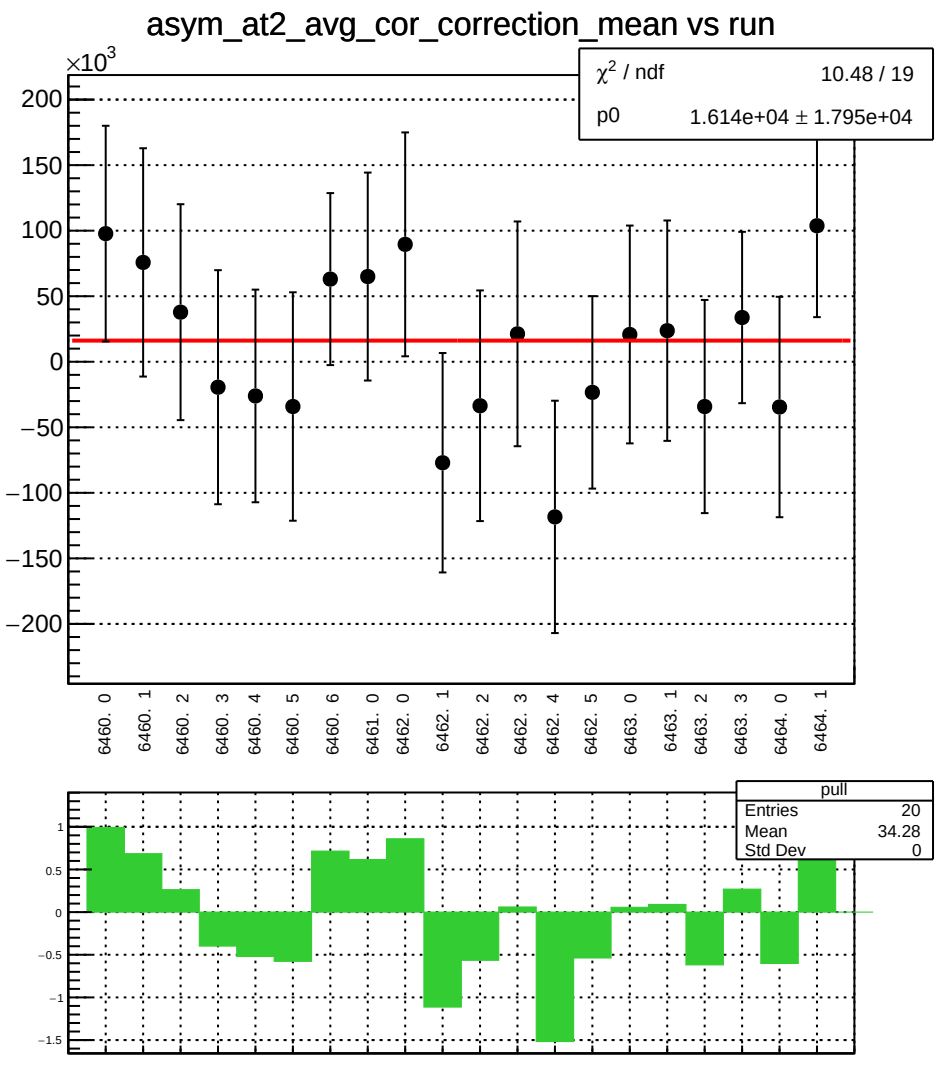

pull1D
Entries 20
Mean −0.02935
Std Dev 0.7232
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

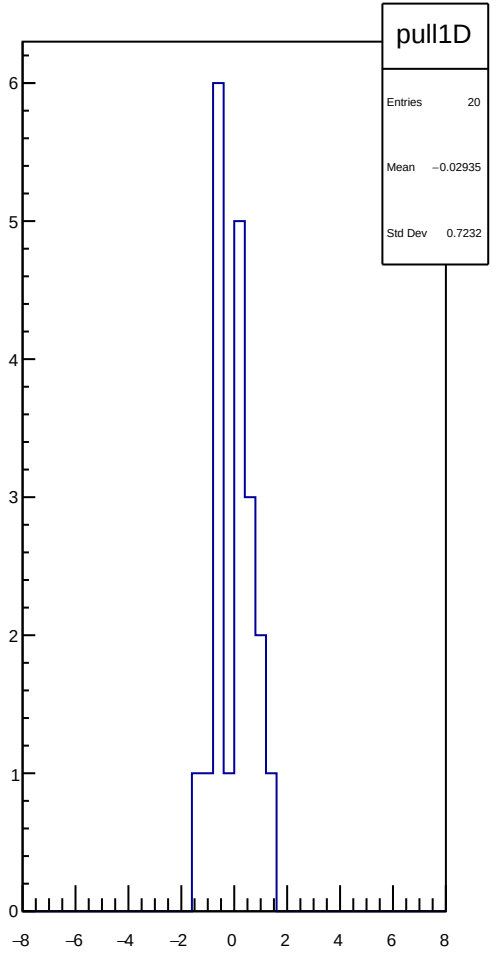

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 324.4 / 19
p0 8076 ± 12.69
8600
8400
8200
8000
7800
7600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

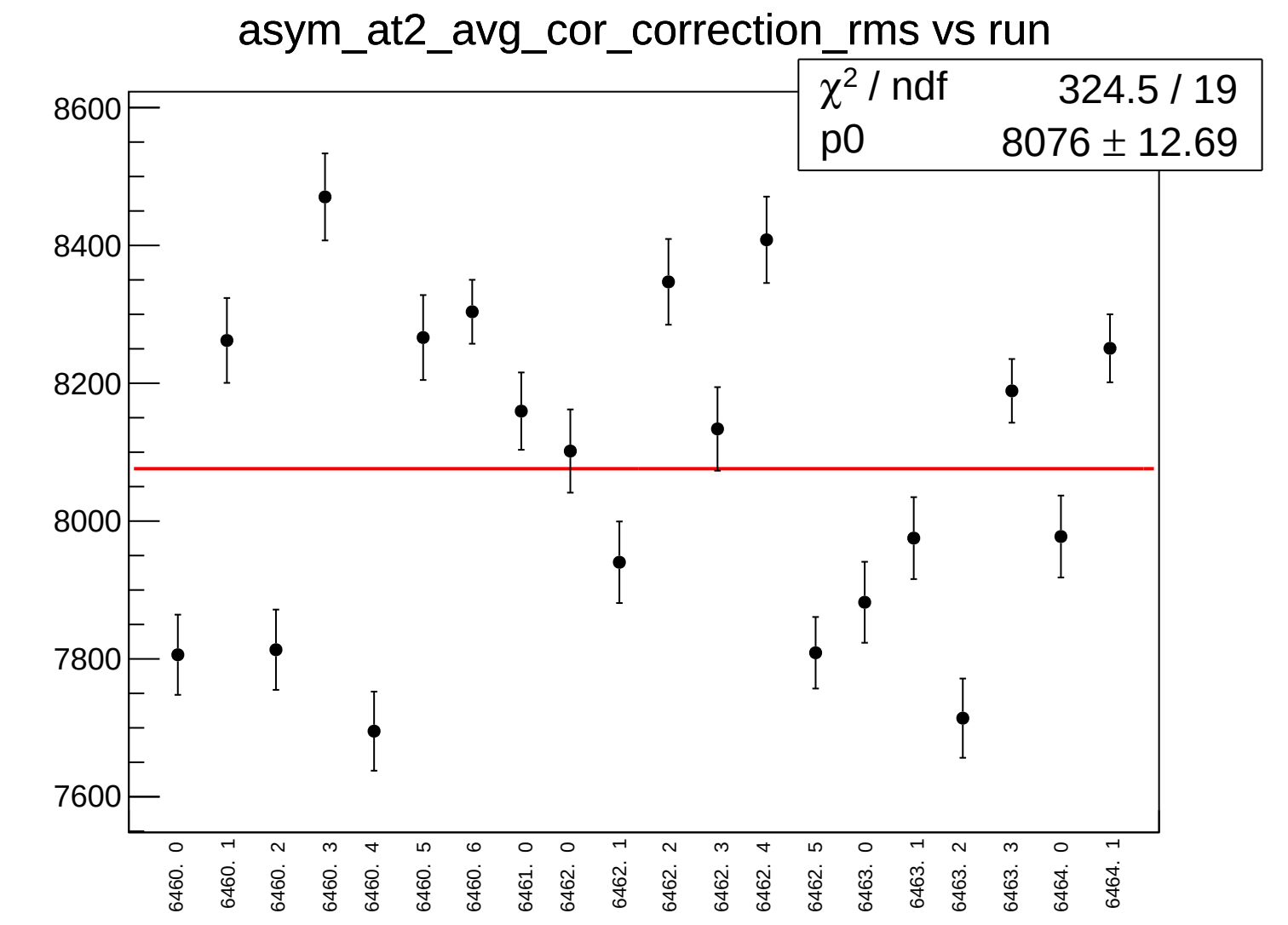

cor_asym_at2_avg_mean vs run
χ² / ndf 21.47 / 19
p0 9135 ± 4212
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

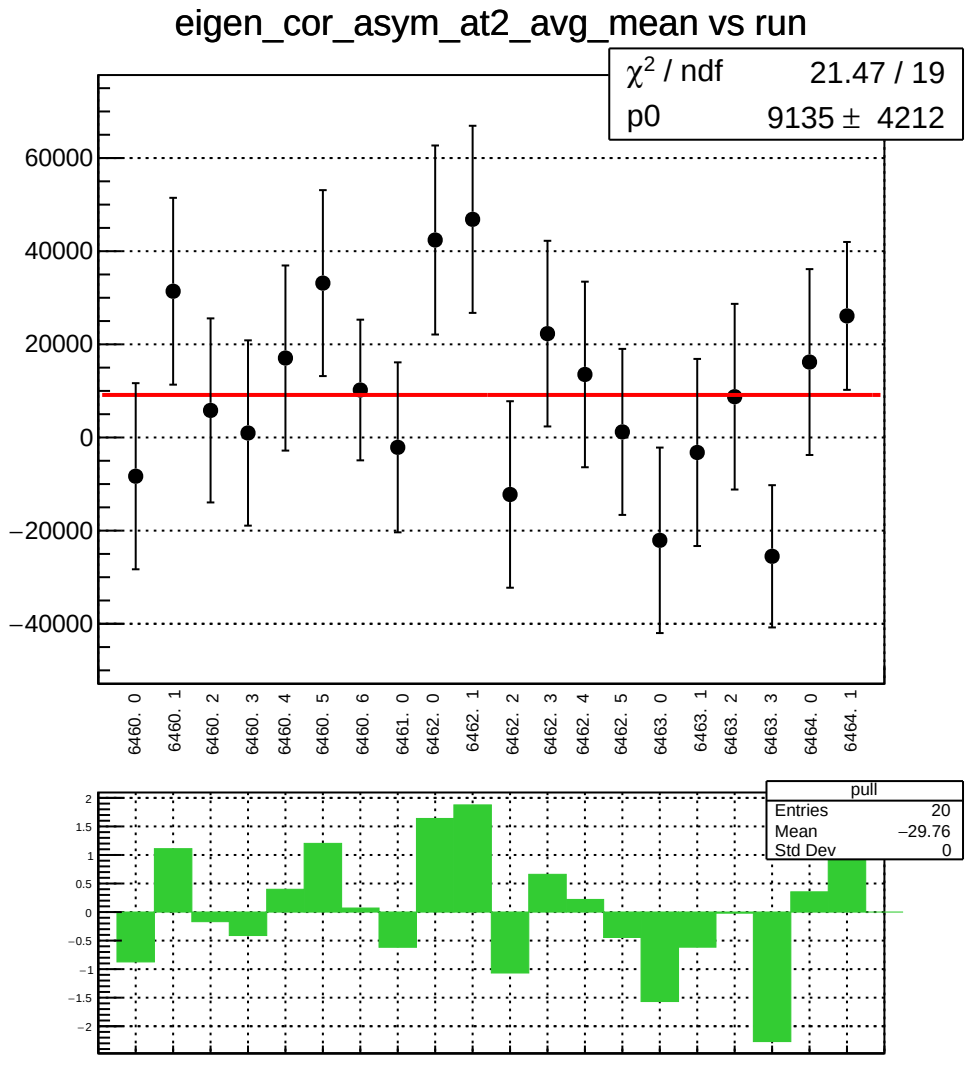

pull1D
Entries 20
Mean 0.02751
Std Dev 1.036
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

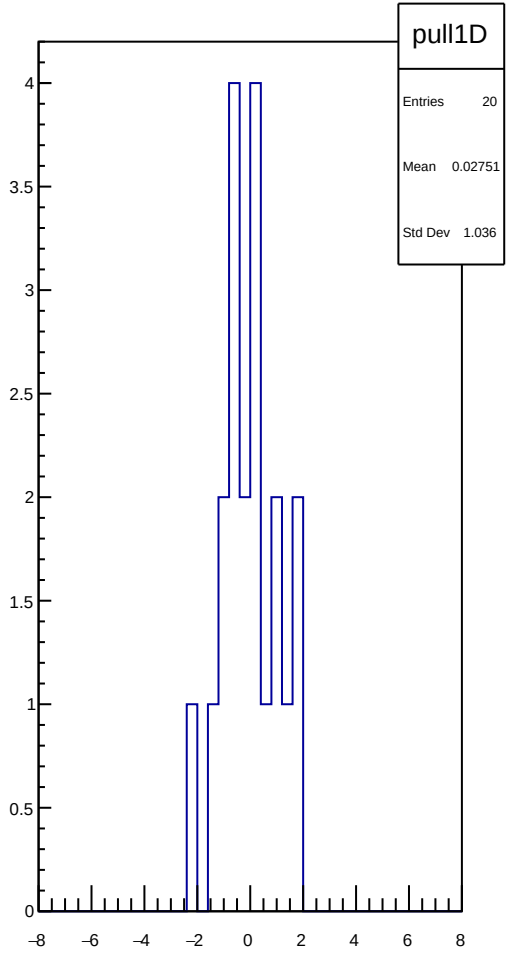

cor_asym_at2_avg_rms vs run
χ² / ndf 18.61 / 19
p0 1896 ± 2.978
1940
1930
1920
1910
1900
1890
1880
1870
1860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

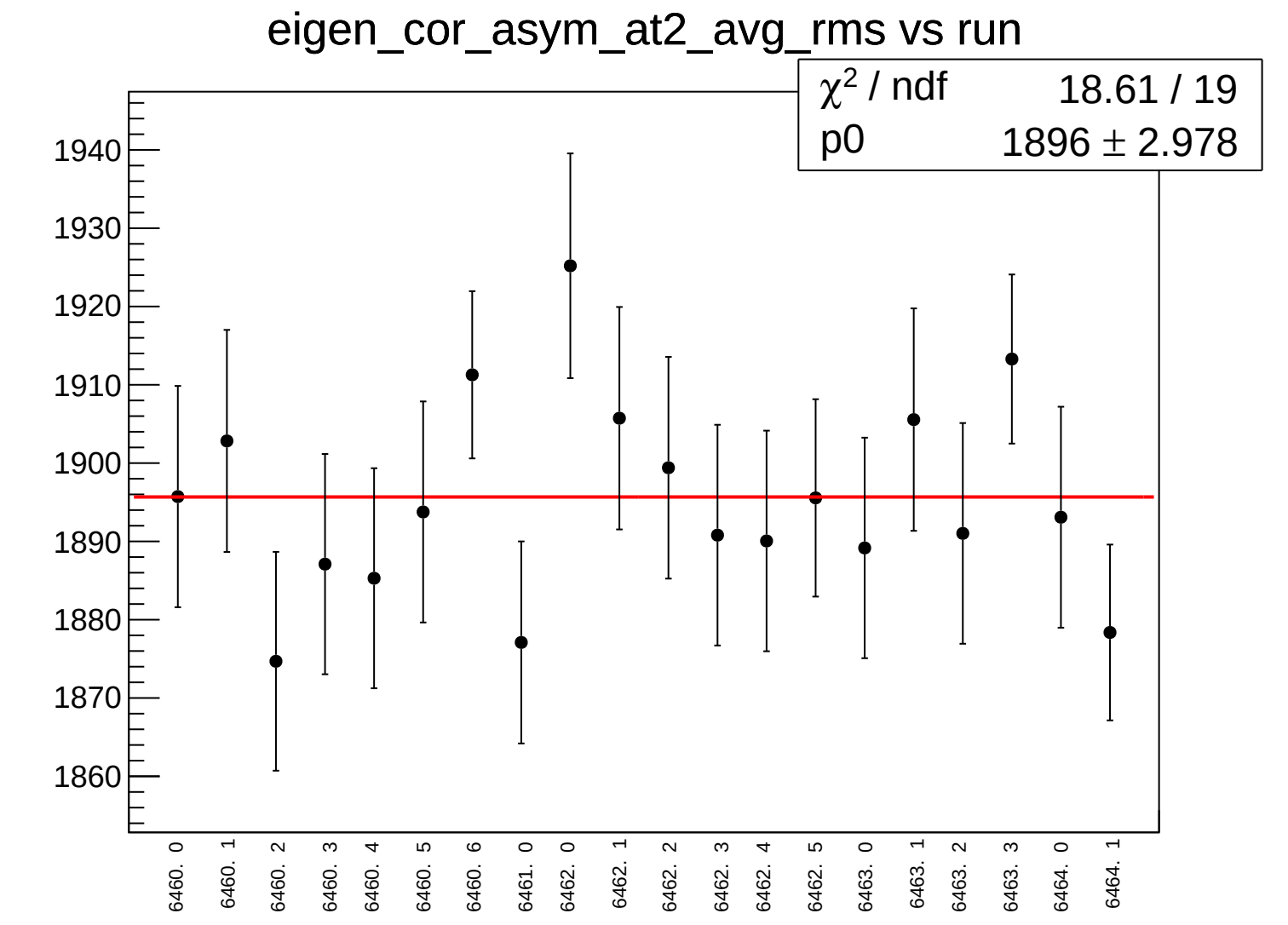

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 10.48 / 19
p0 1.614e+04 ± 1.795e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

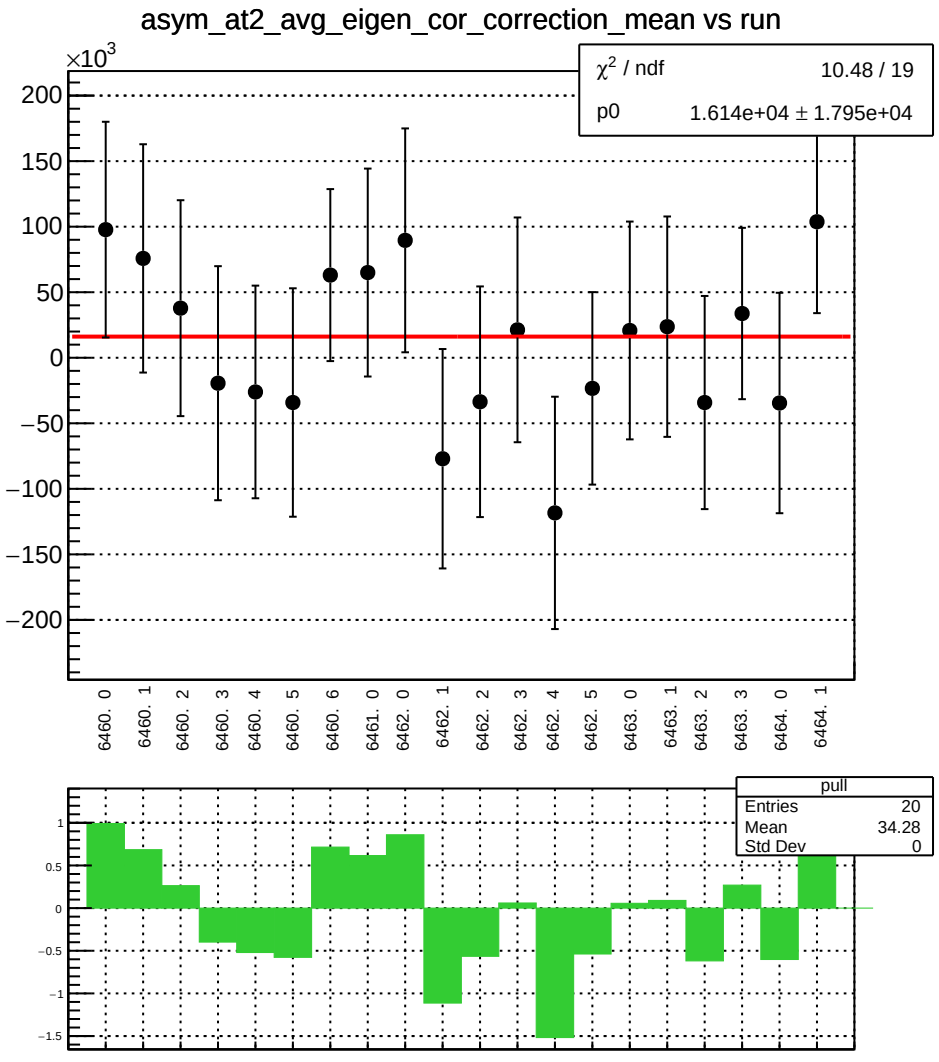

pull1D
Entries 20
Mean −0.02935
Std Dev 0.7232
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

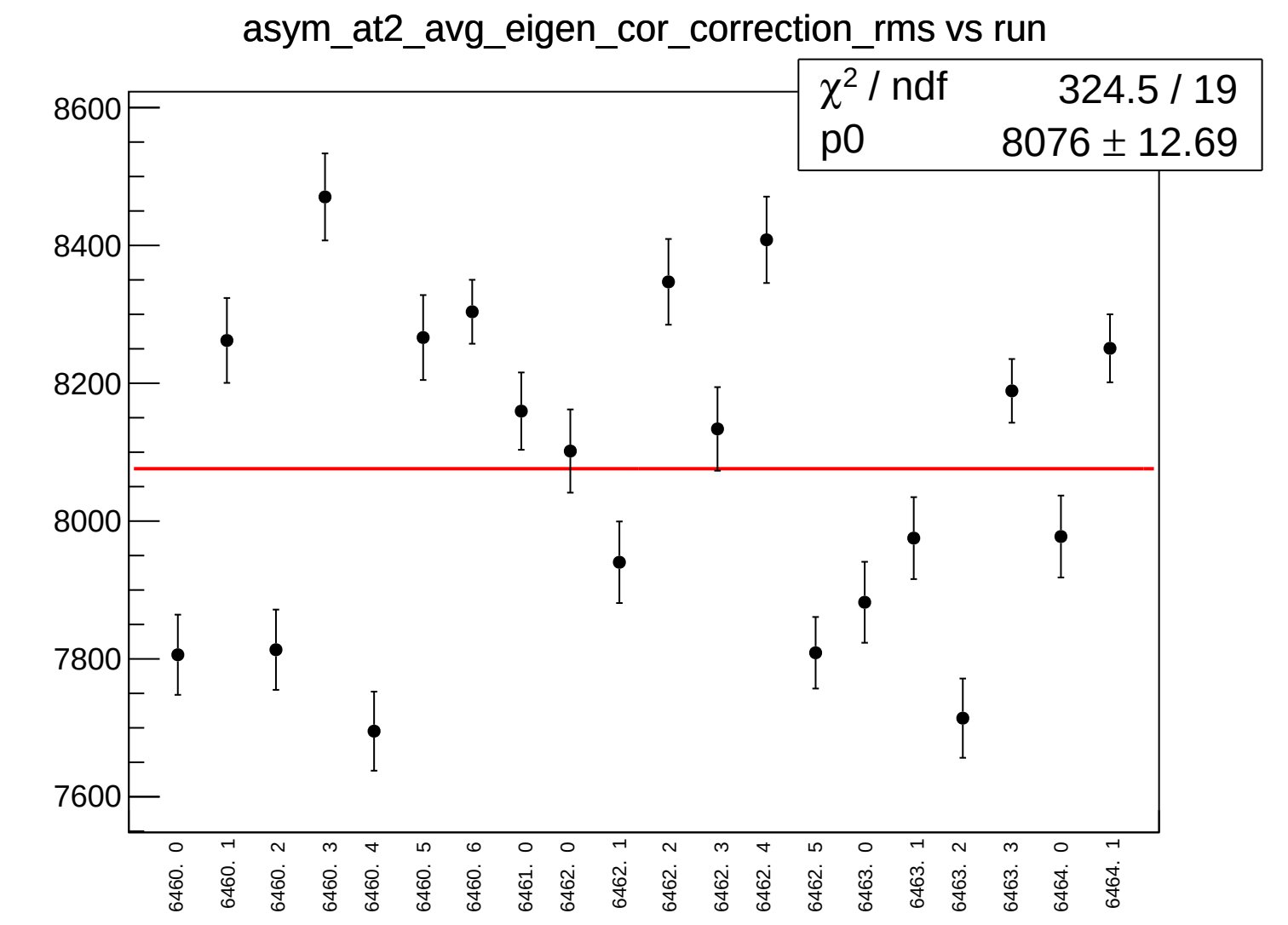

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 324.5 / 19
p0 8076 ± 12.69
8600
8400
8200
8000
7800
7600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

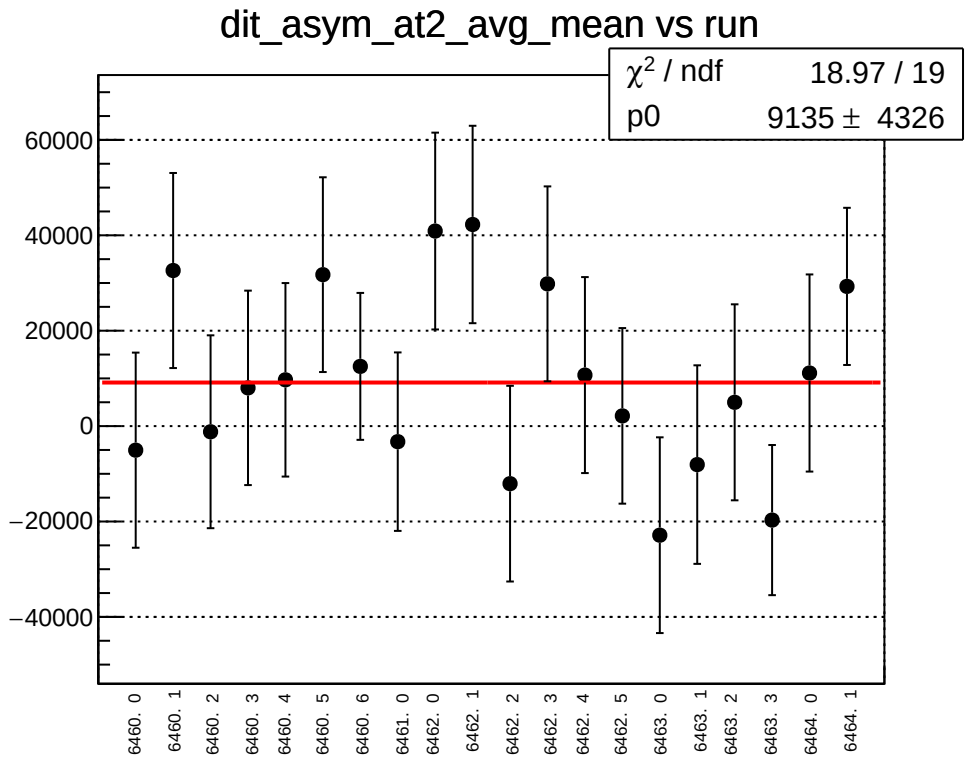

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 21.47 / 19
p0 9135 ± 4212
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

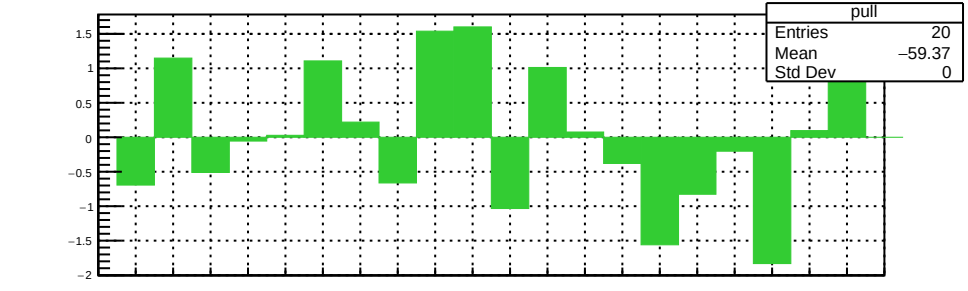

pull1D
Entries 20
Mean 0.02751
Std Dev 1.036
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

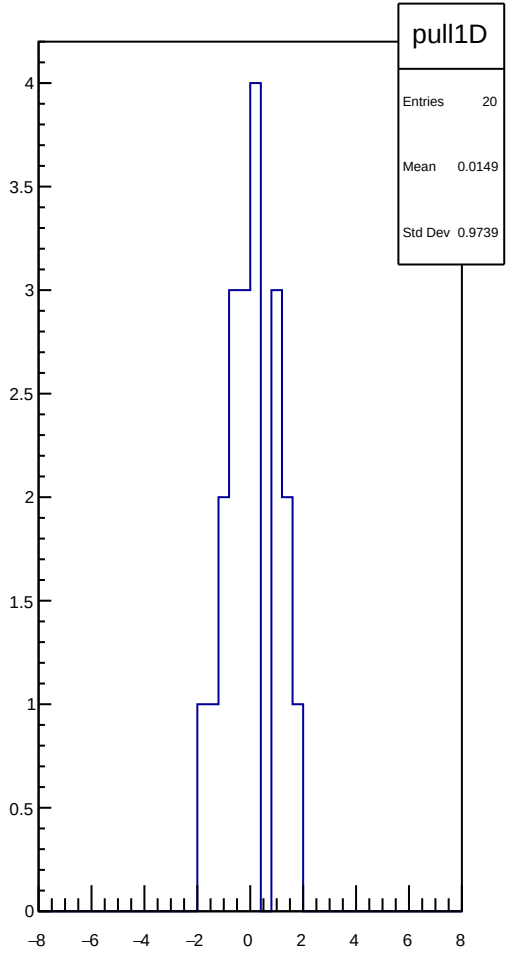

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 18.61 / 19
p0 1896 ± 2.978
1940
1930
1920
1910
1900
1890
1880
1870
1860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

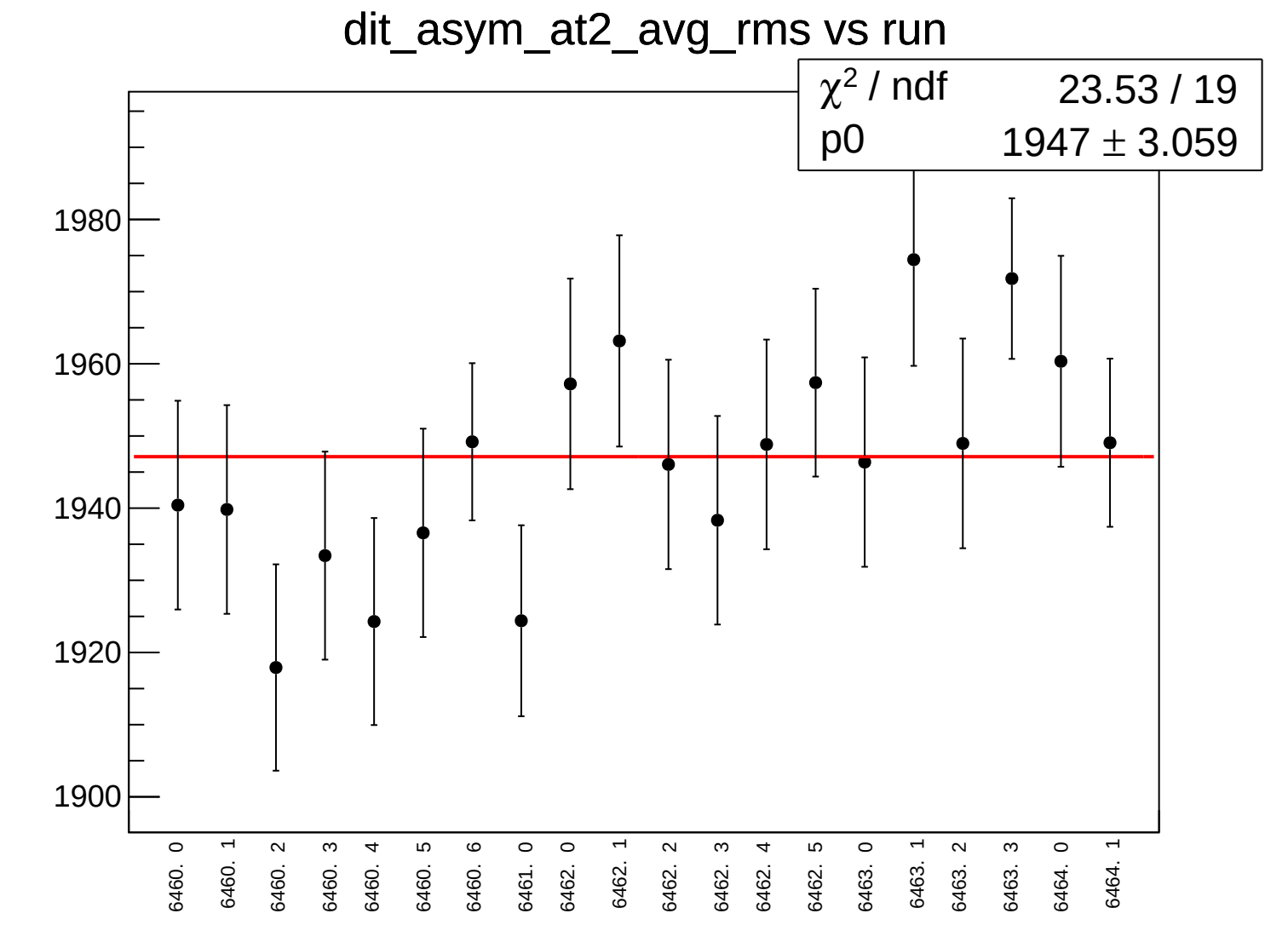

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 10.48 / 19
p0 1.614e+04 ± 1.795e+04
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02935
Std Dev 0.7232
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

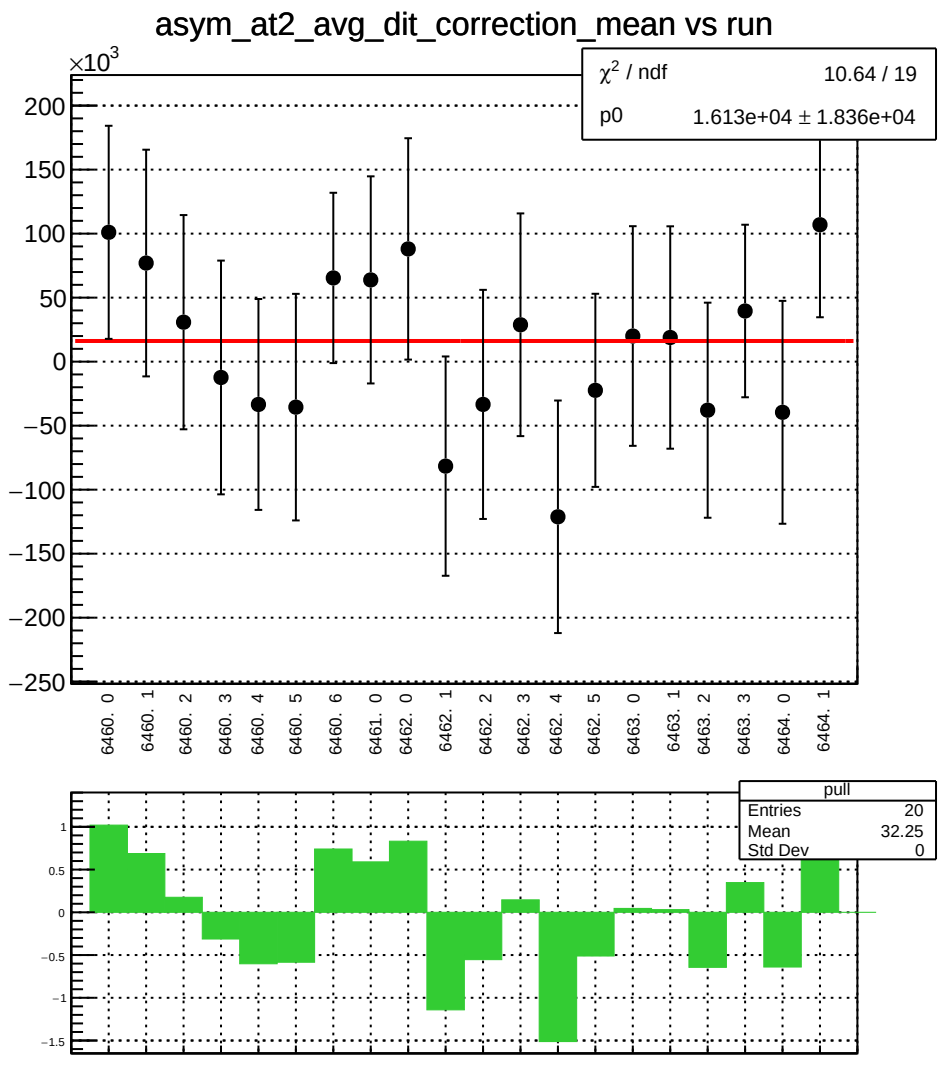

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 324.5 / 19
p0 8076 ± 12.69
8600
8400
8200
8000
7800
7600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

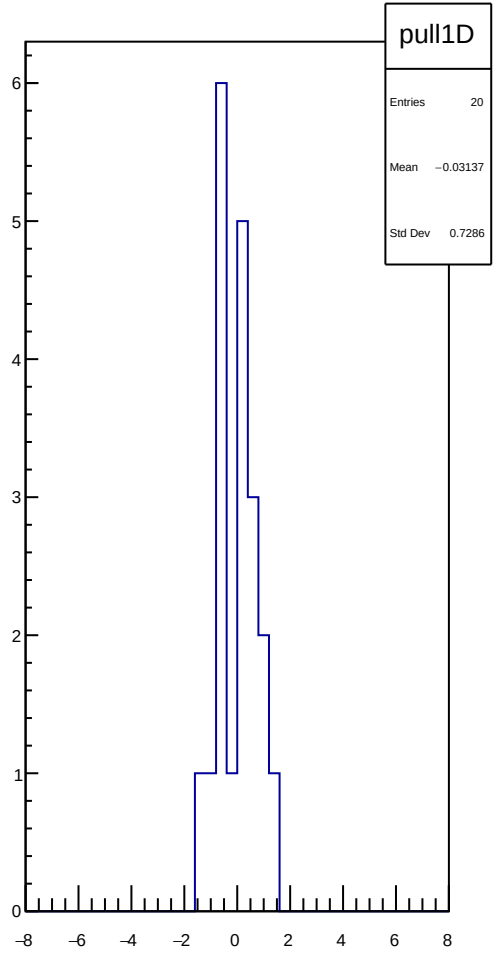

dit_asym_at2_avg_mean vs run
χ² / ndf 18.97 / 19
p0 9135 ± 4326
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

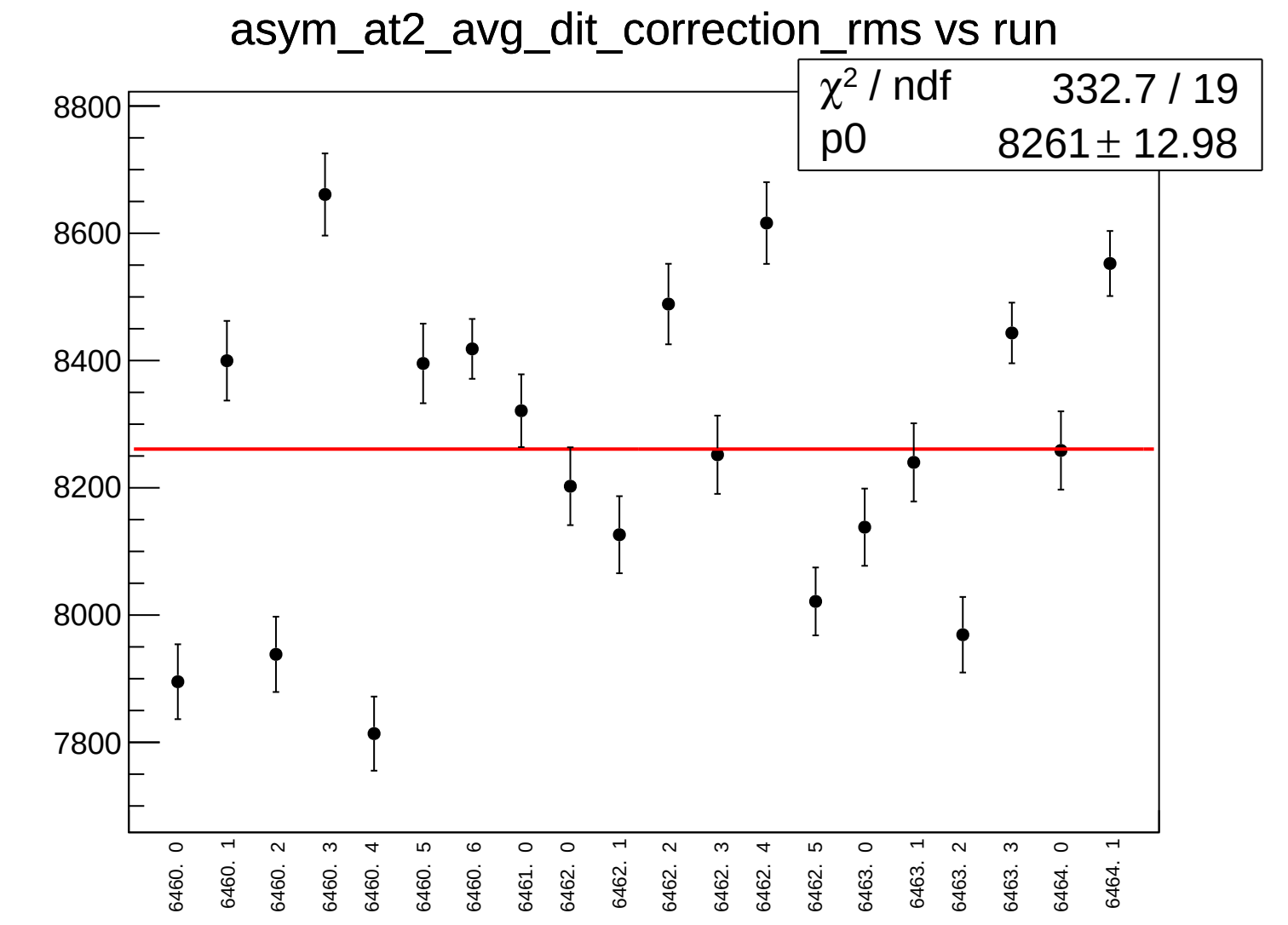

pull
Entries 20
Mean −59.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

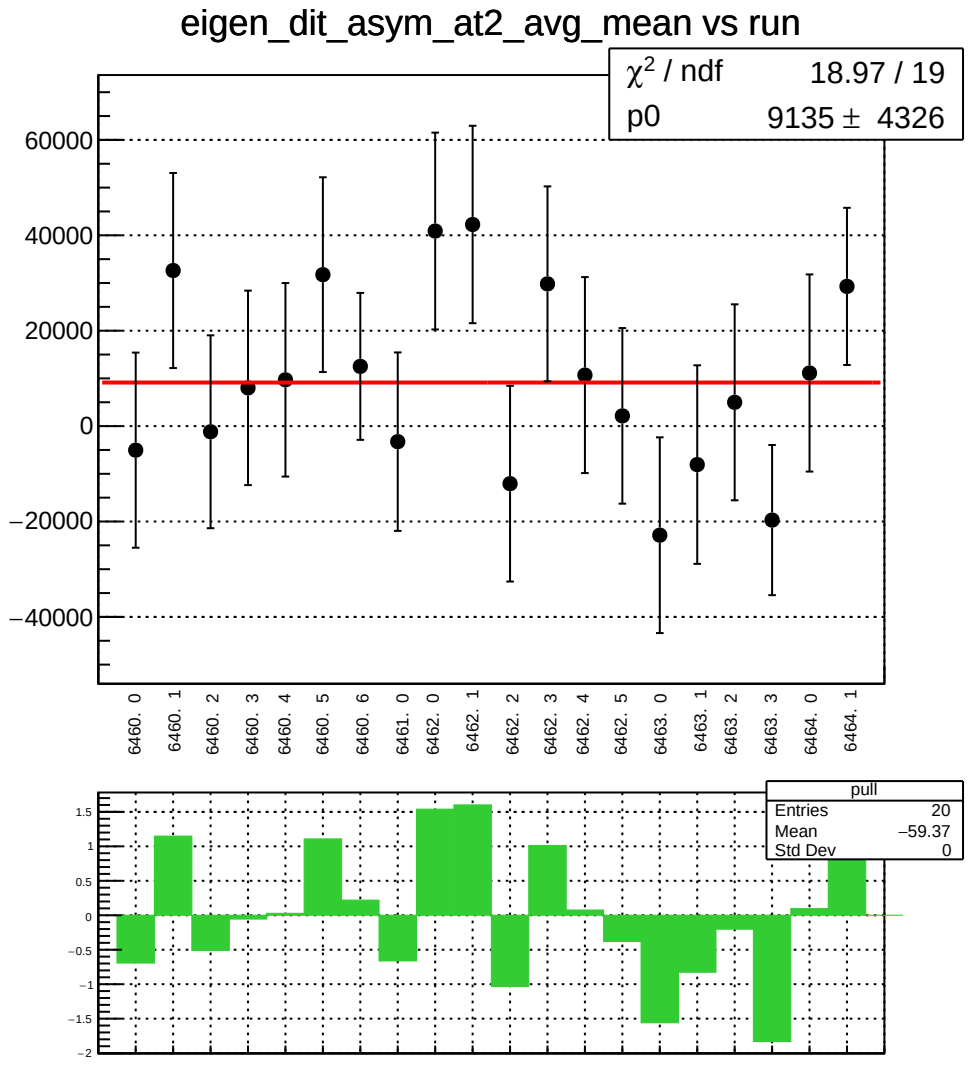

pull1D
Entries 20
Mean 0.0149
Std Dev 0.9739
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

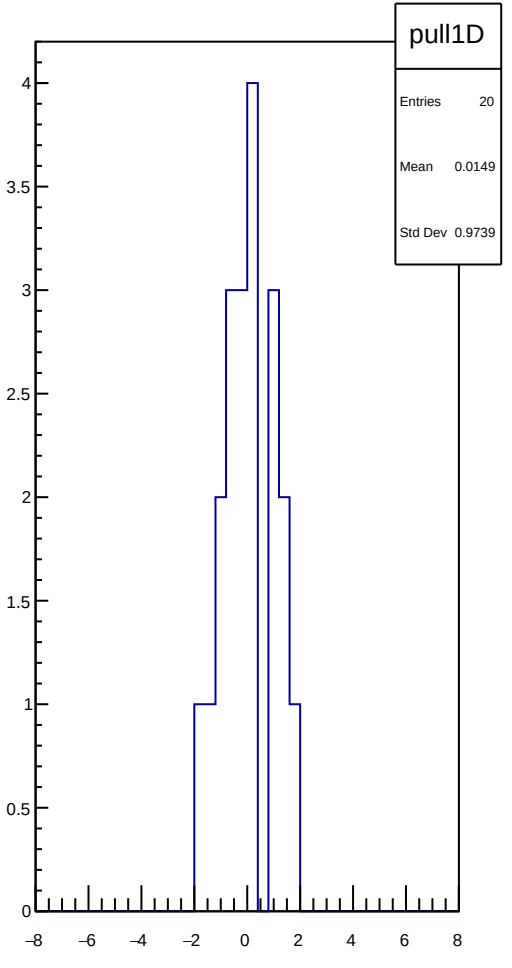

dit_asym_at2_avg_rms vs run
χ² / ndf 23.53 / 19
p0 1947 ± 3.059
1980
1960
1940
1920
1900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

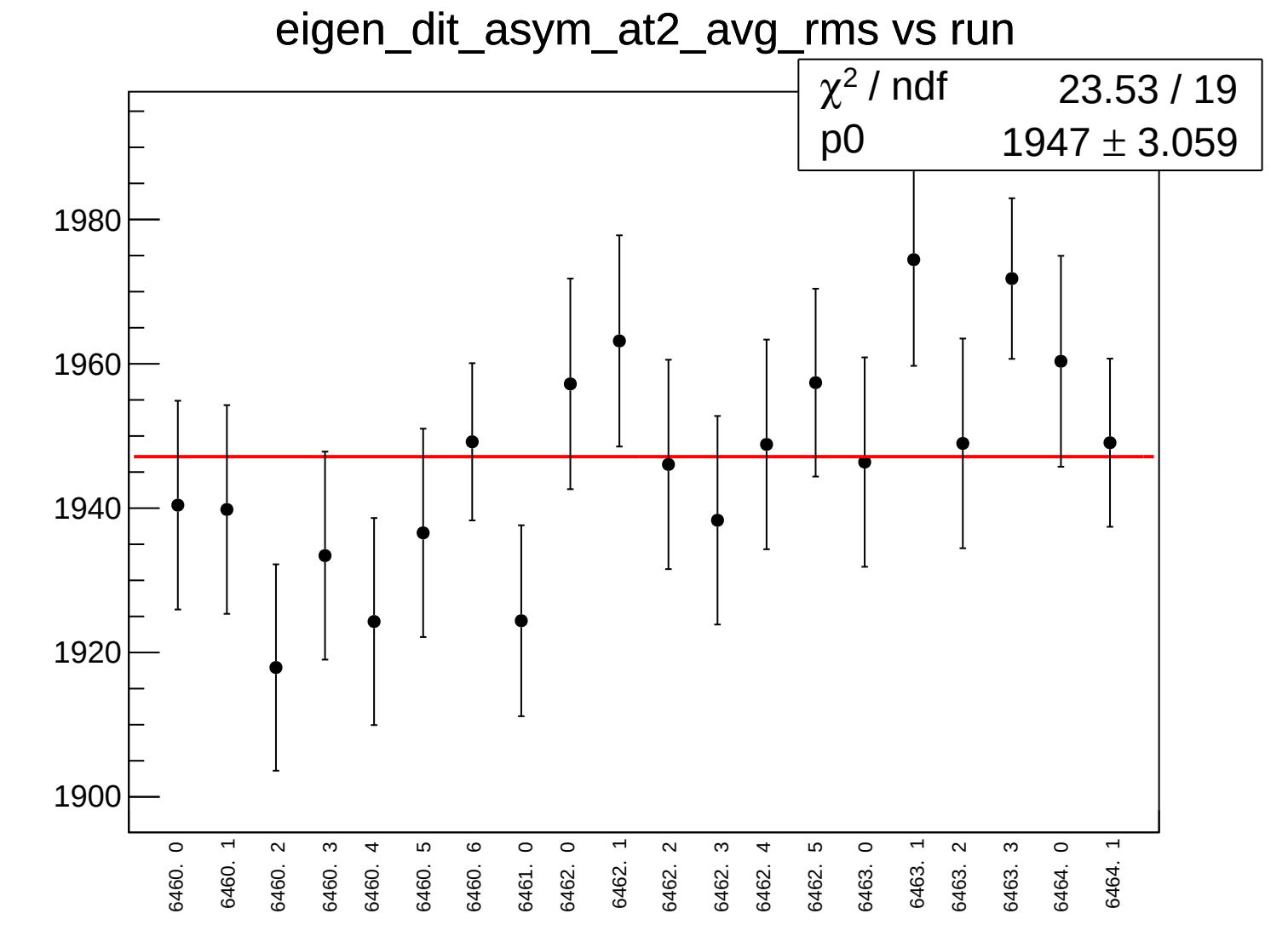

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 10.64 / 19
p0 1.613e+04 ± 1.836e+04
200
150
100
50
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.25
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

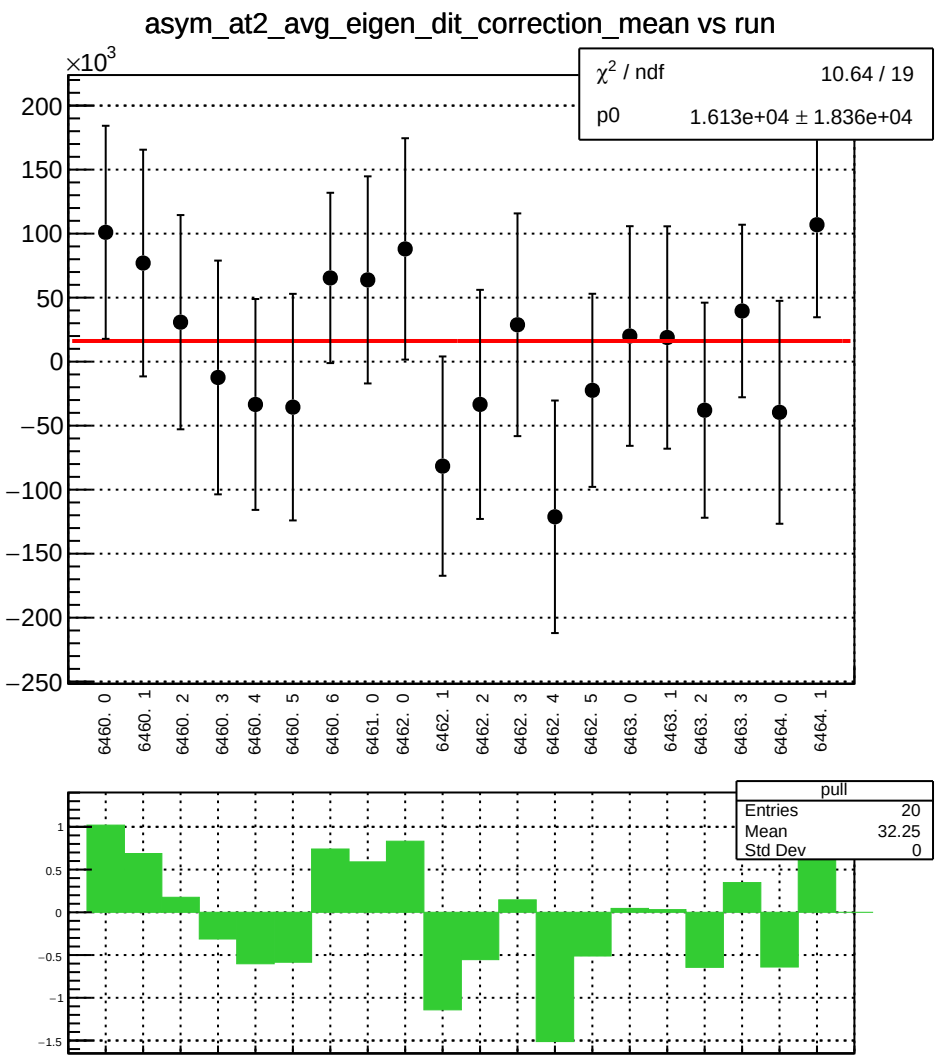

pull1D
Entries 20
Mean −0.03137
Std Dev 0.7286
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

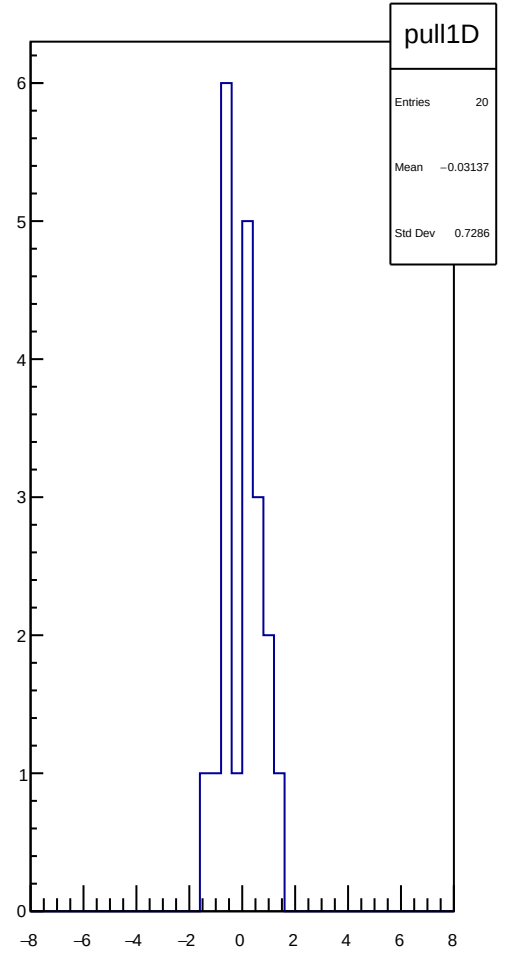

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 332.7 / 19
p0 8261 ± 12.98
8800
8600
8400
8200
8000
7800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

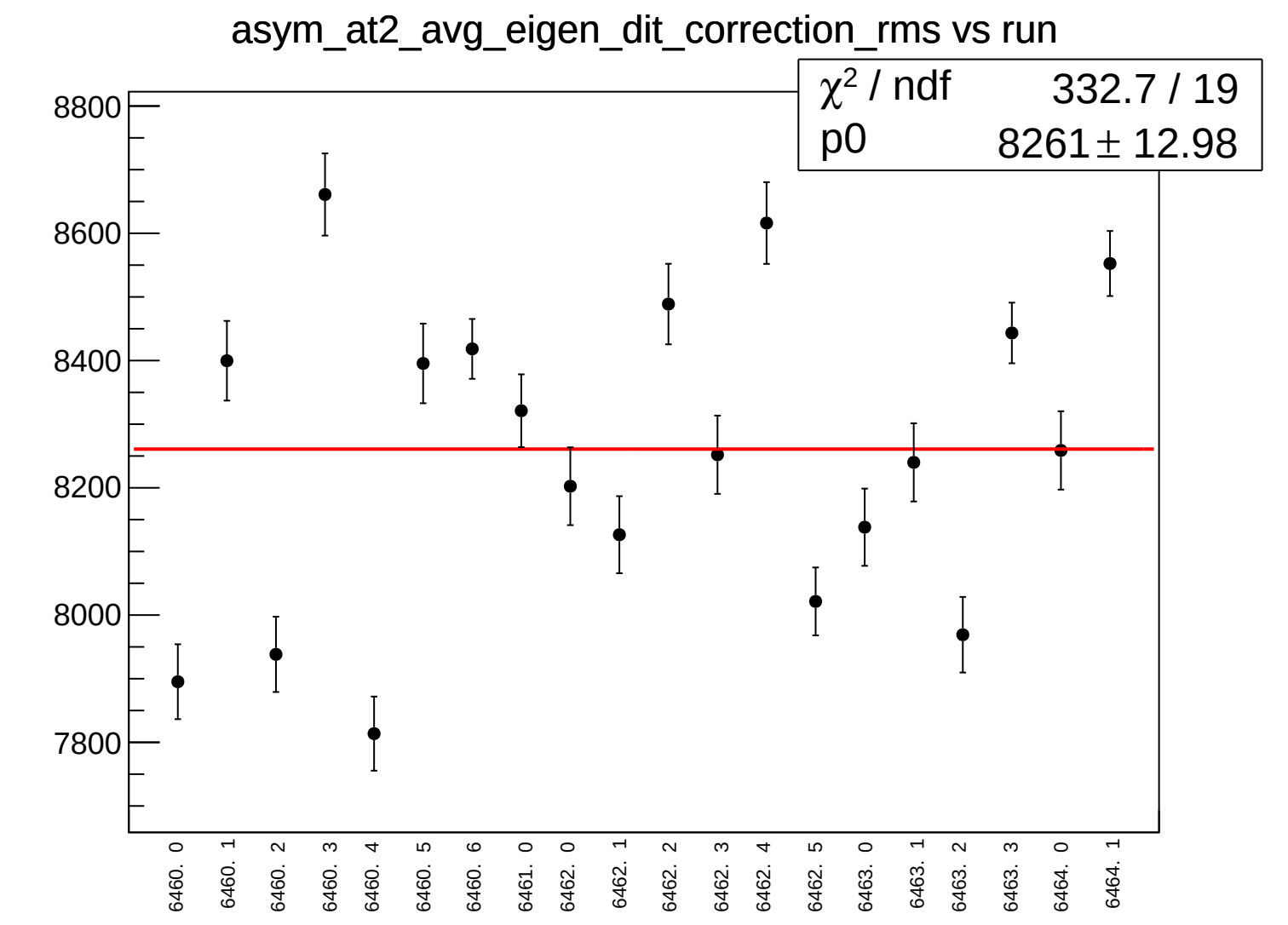

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 18.97 / 19
p0 9135 ± 4326
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −59.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

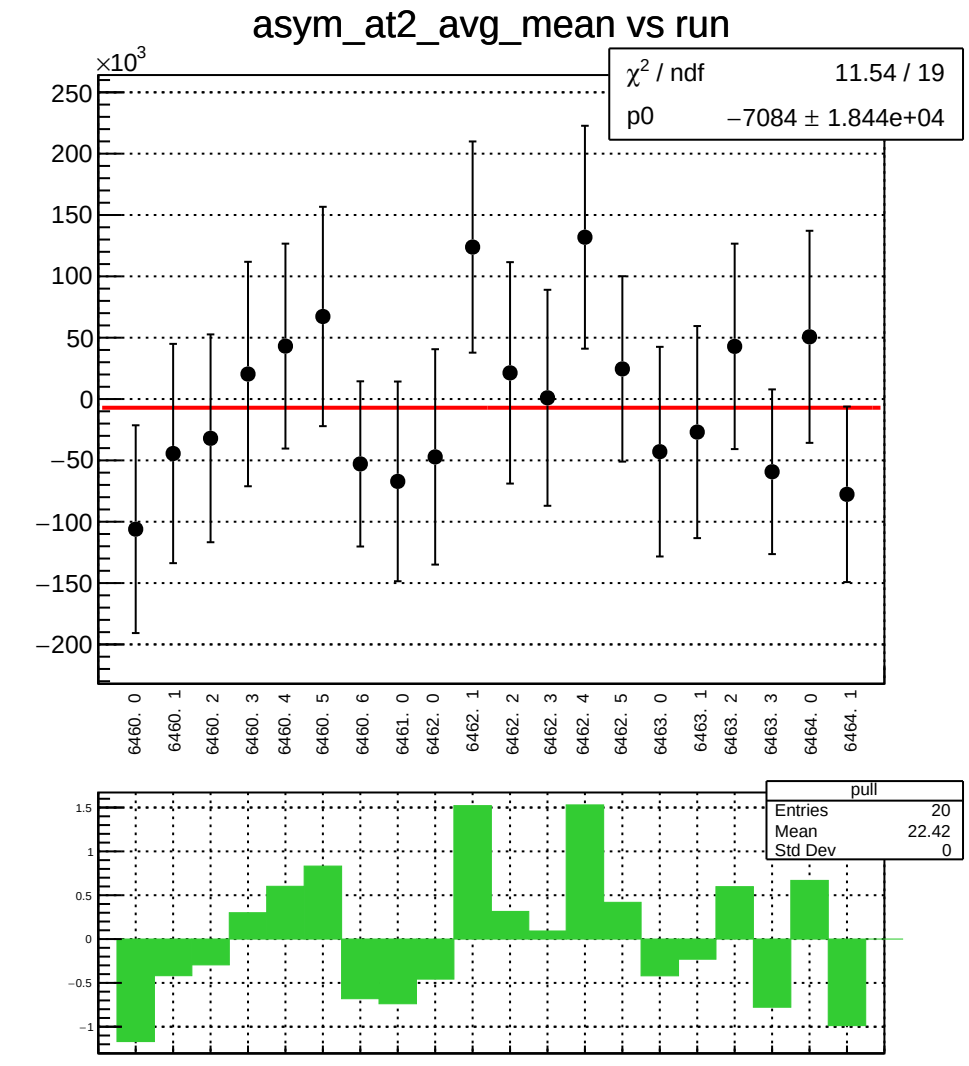

pull1D
Entries 20
Mean 0.0149
Std Dev 0.9739
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

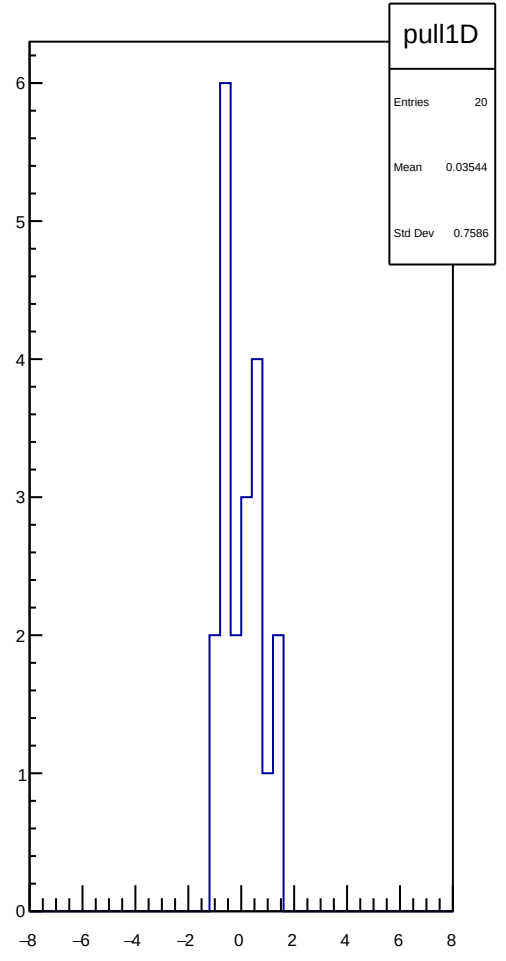

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 23.53 / 19
p0 1947 ± 3.059
1980
1960
1940
1920
1900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

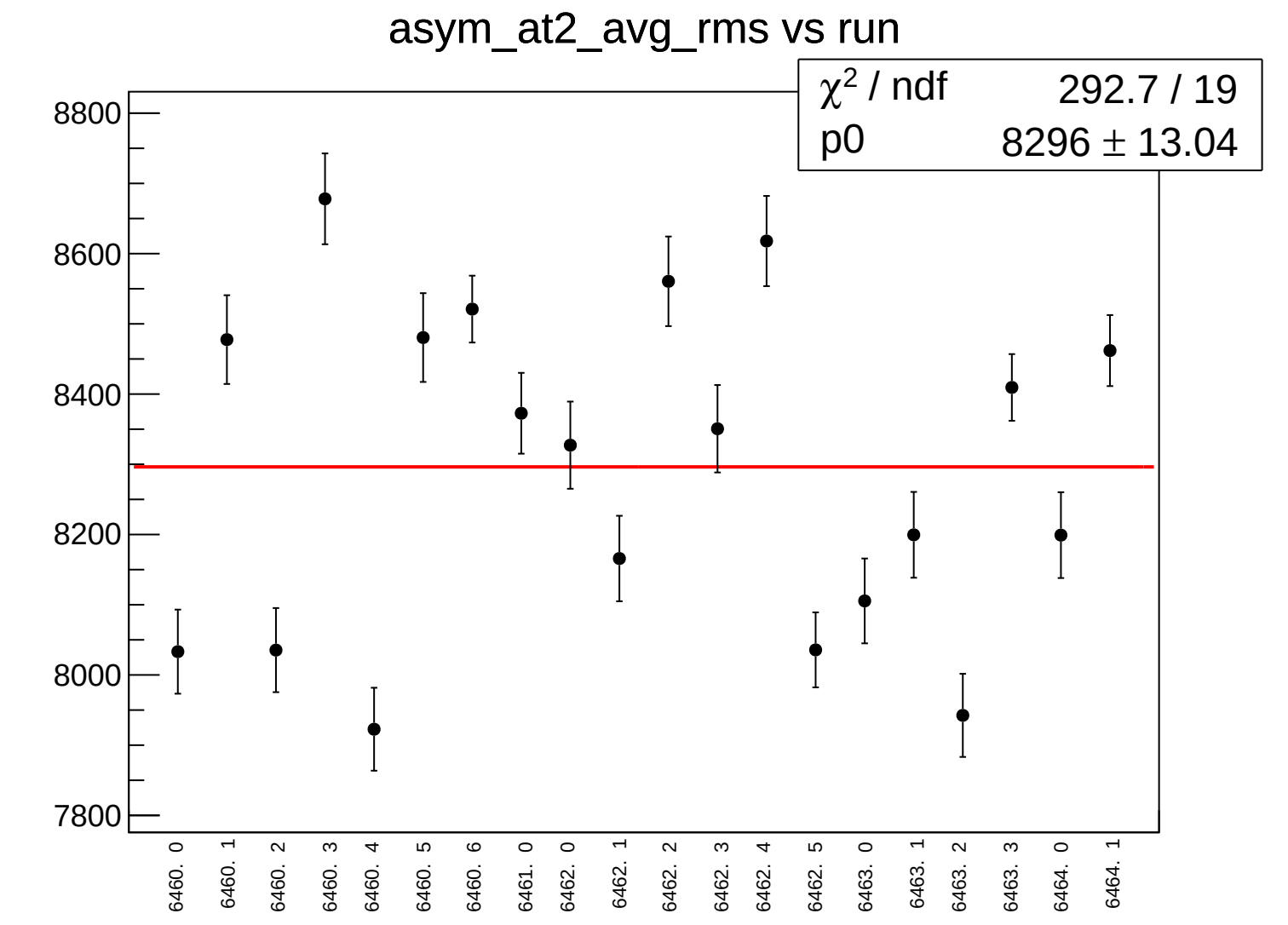

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 10.64 / 19
p0 1.613e+04 ± 1.836e+04
200
150
100
50
0
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.25
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

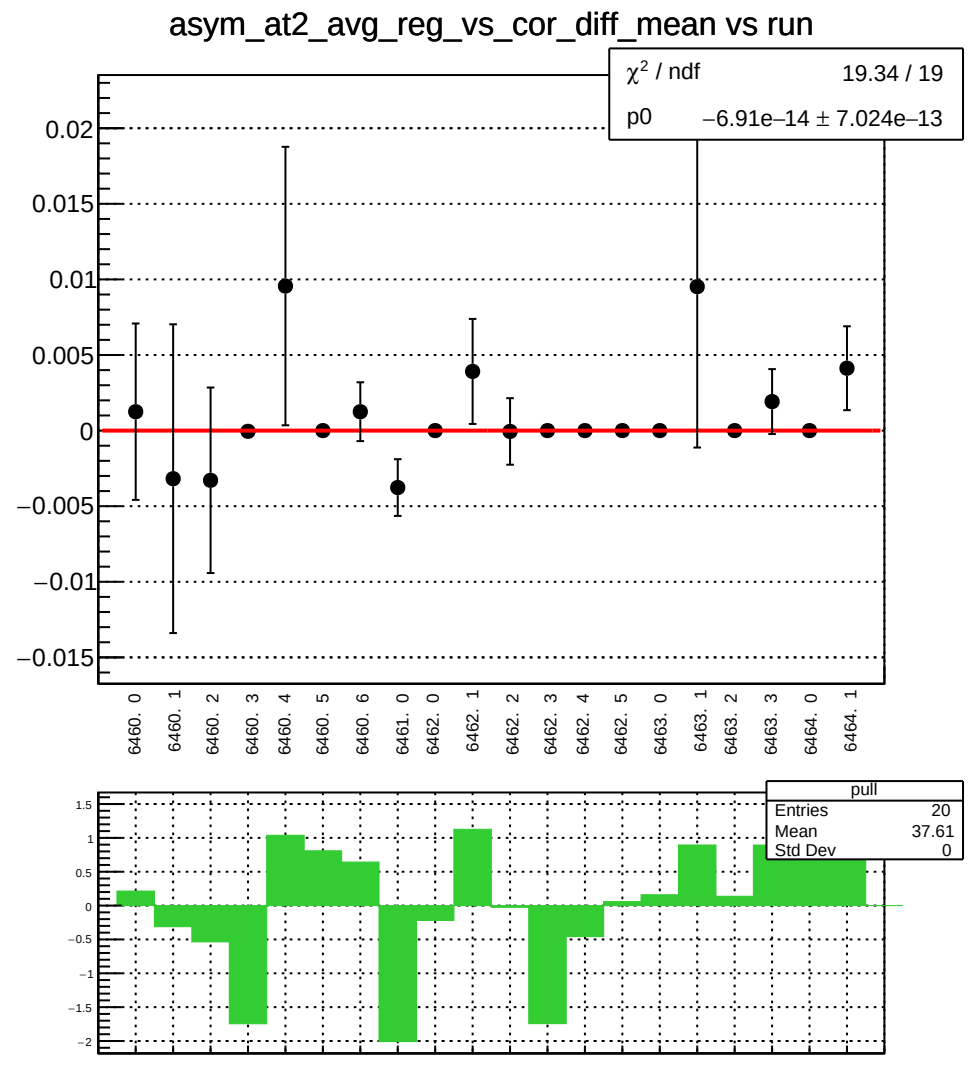

pull1D
Entries 20
Mean −0.03137
Std Dev 0.7286
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

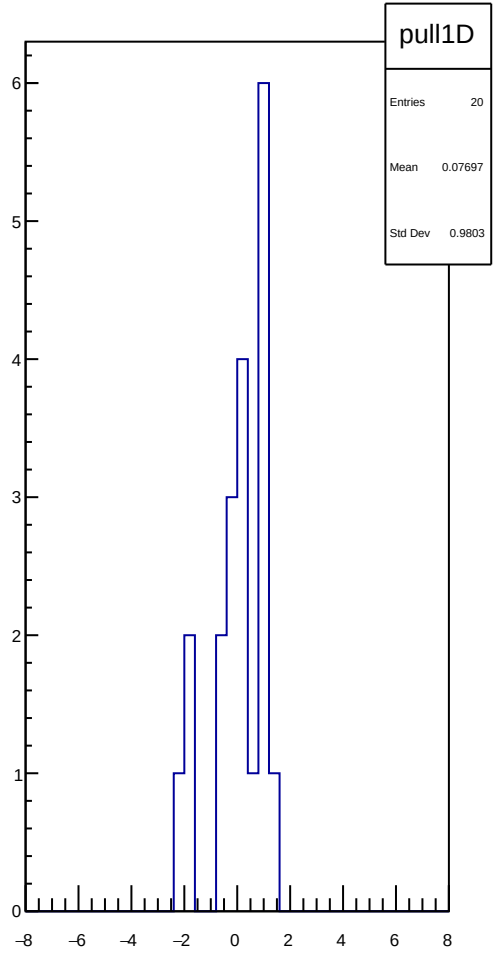

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 332.7 / 19
p0 8261 ± 12.98
8800
8600
8400
8200
8000
7800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

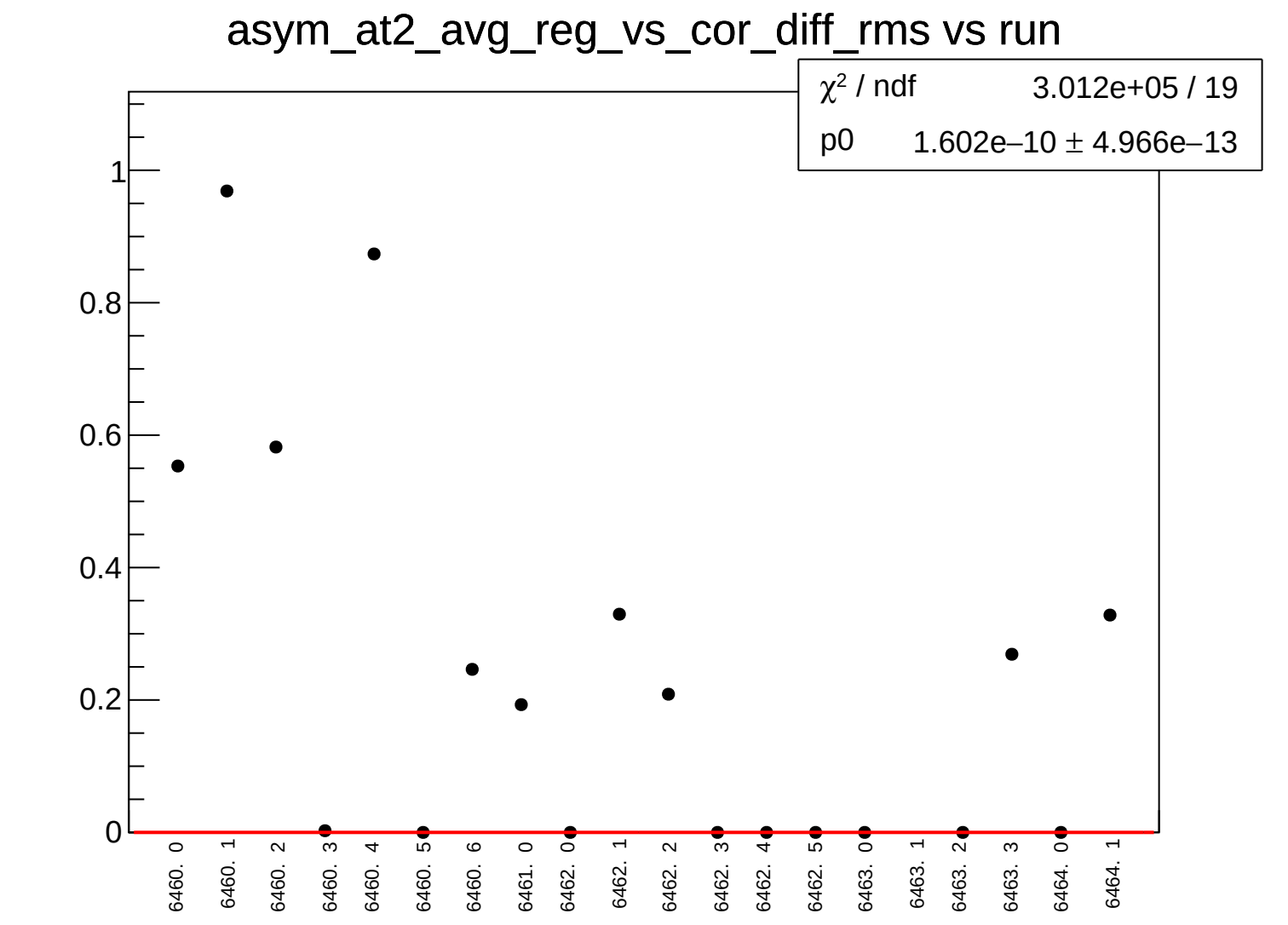

asym_at2_avg_mean vs run
×10^3
χ² / ndf 11.54 / 19
p0 −7084 ± 1.844e+04
250
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 22.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1

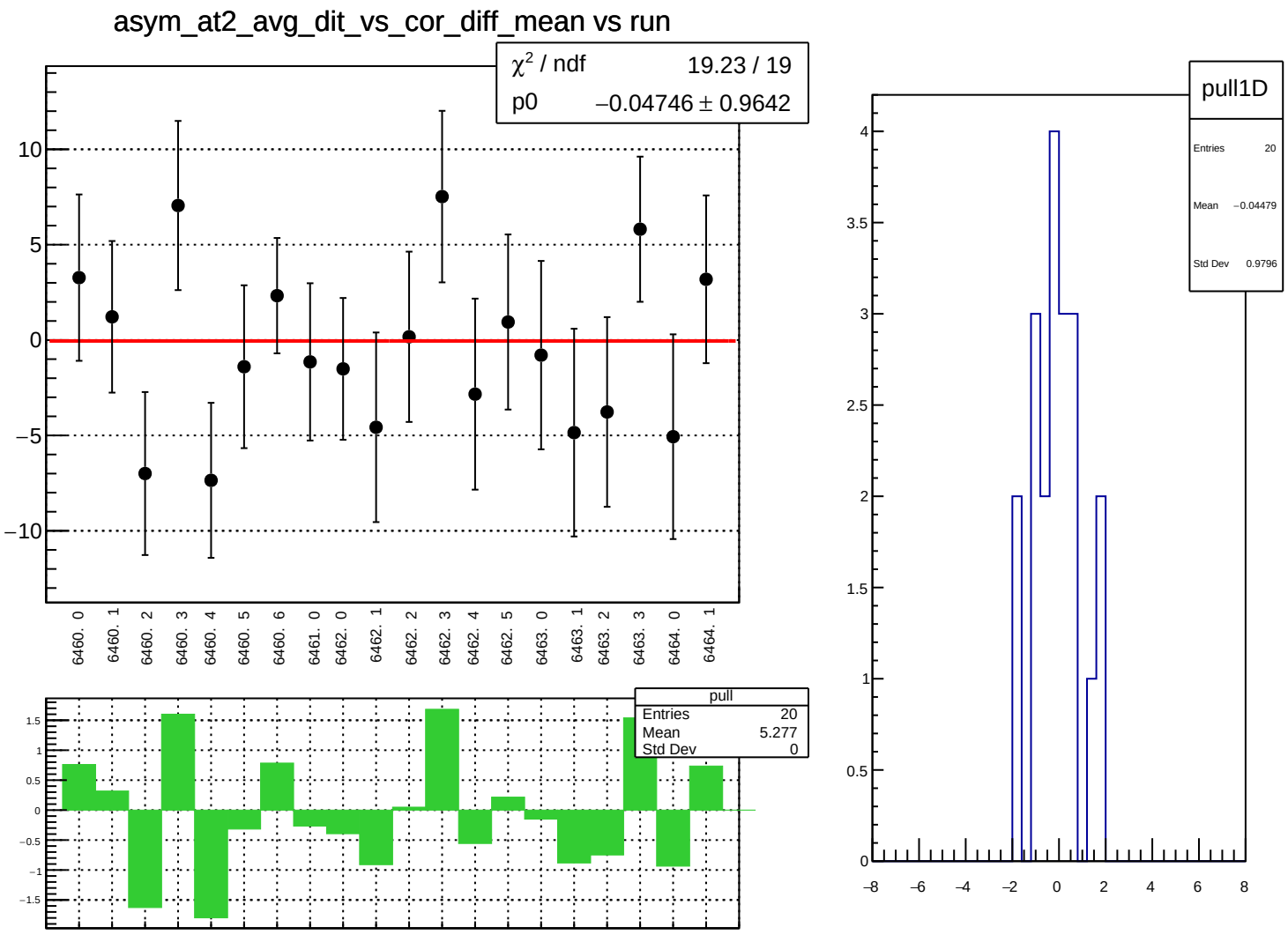

pull1D
Entries 20
Mean 0.03544
Std Dev 0.7586
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

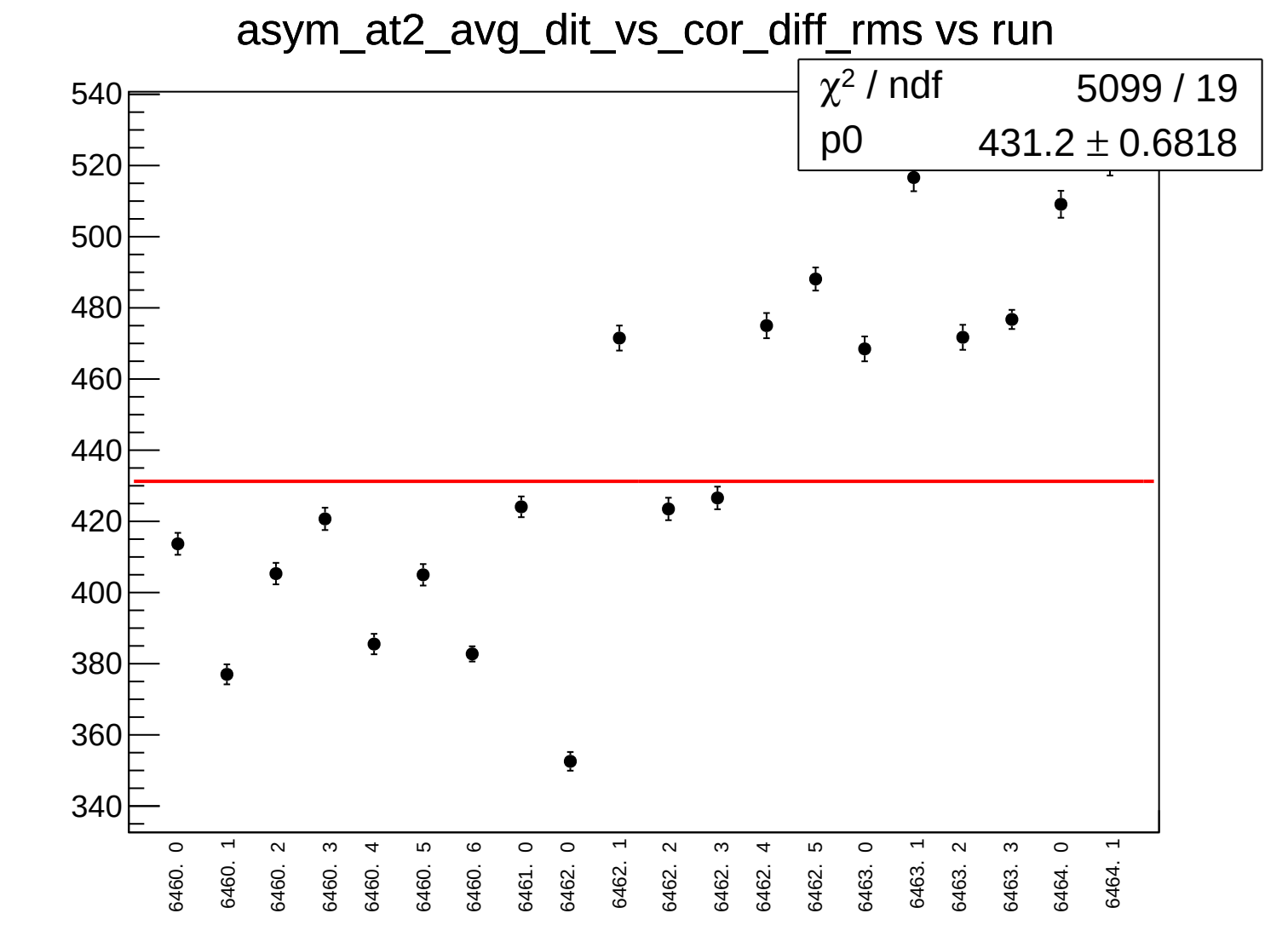

asym_at2_avg_rms vs run
χ² / ndf 292.7 / 19
p0 8296 ± 13.04
8800
8600
8400
8200
8000
7800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

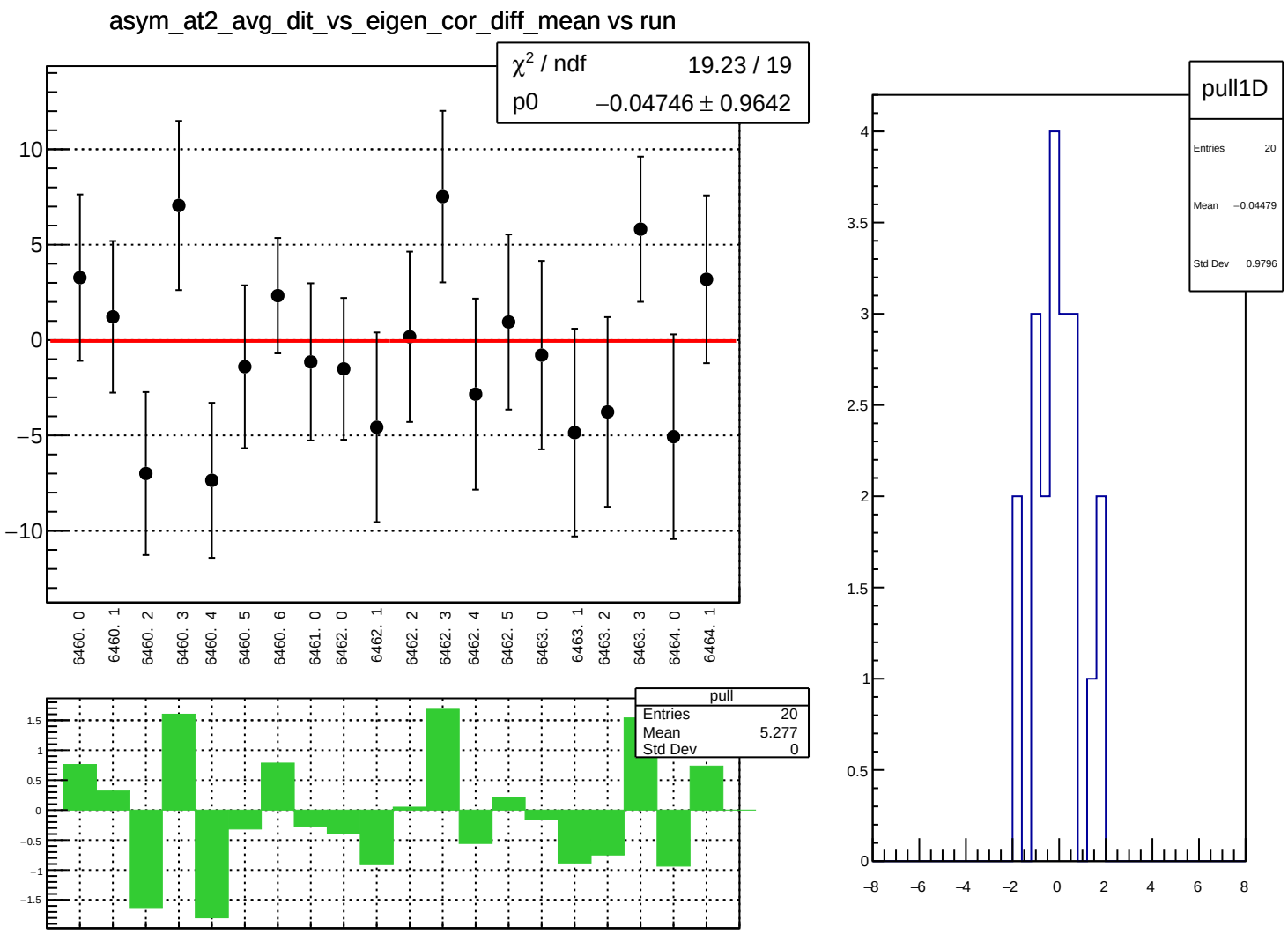

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 19.34 / 19
p0 −6.91e−14 ± 7.024e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

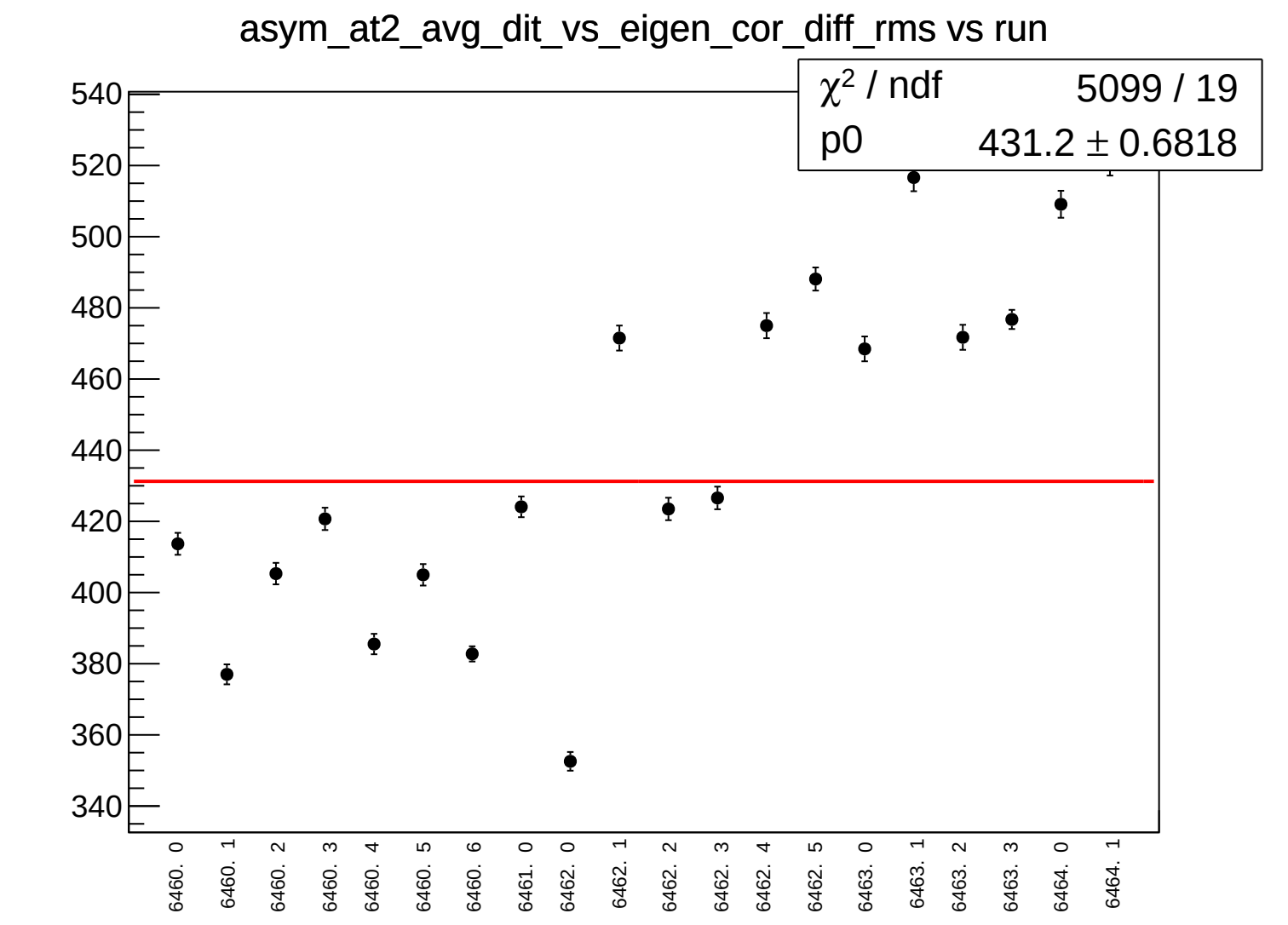

pull1D
Entries 20
Mean 0.07697
Std Dev 0.9803
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

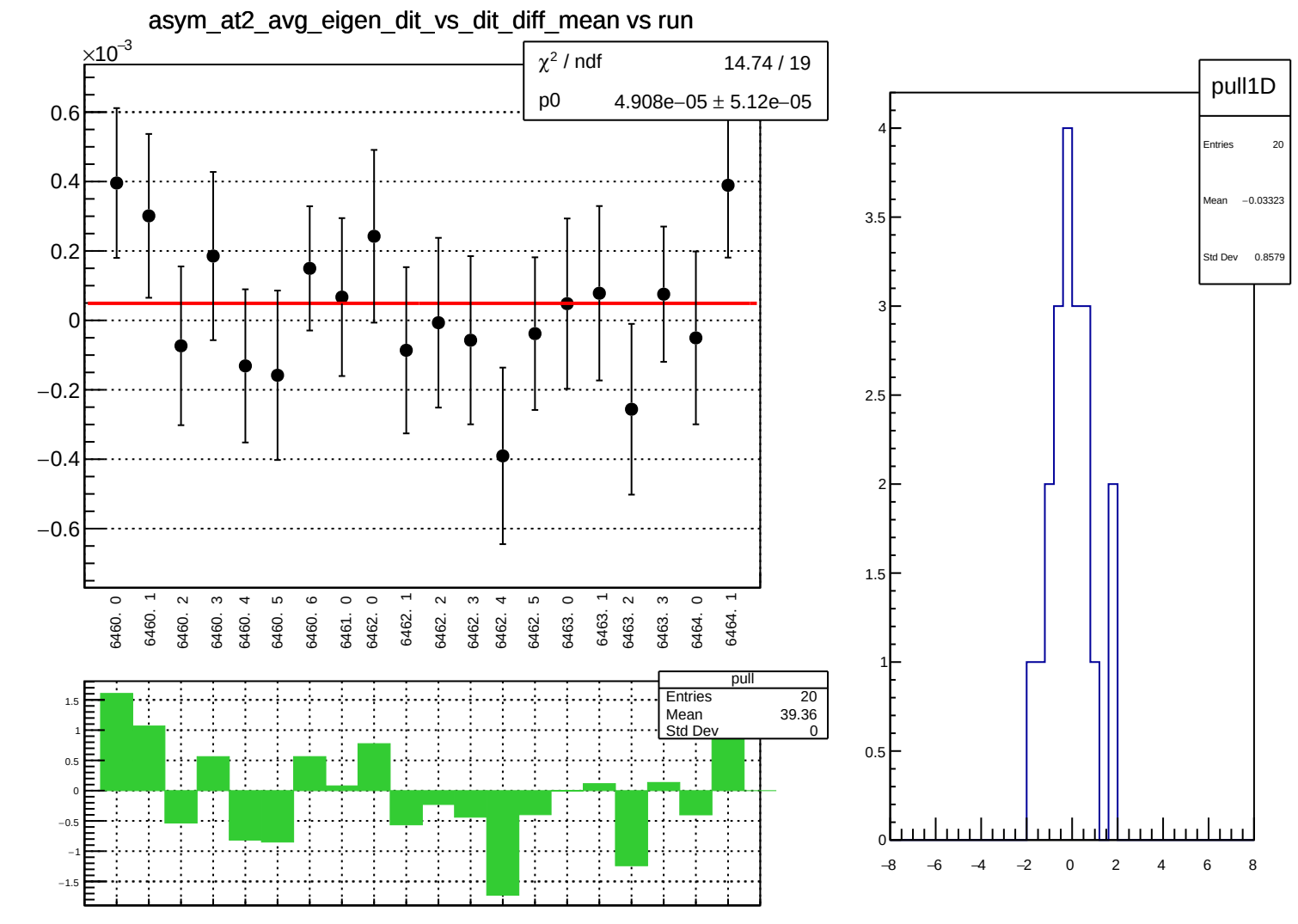

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.012e+05 / 19
p0 1.602e−10 ± 4.966e−13
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

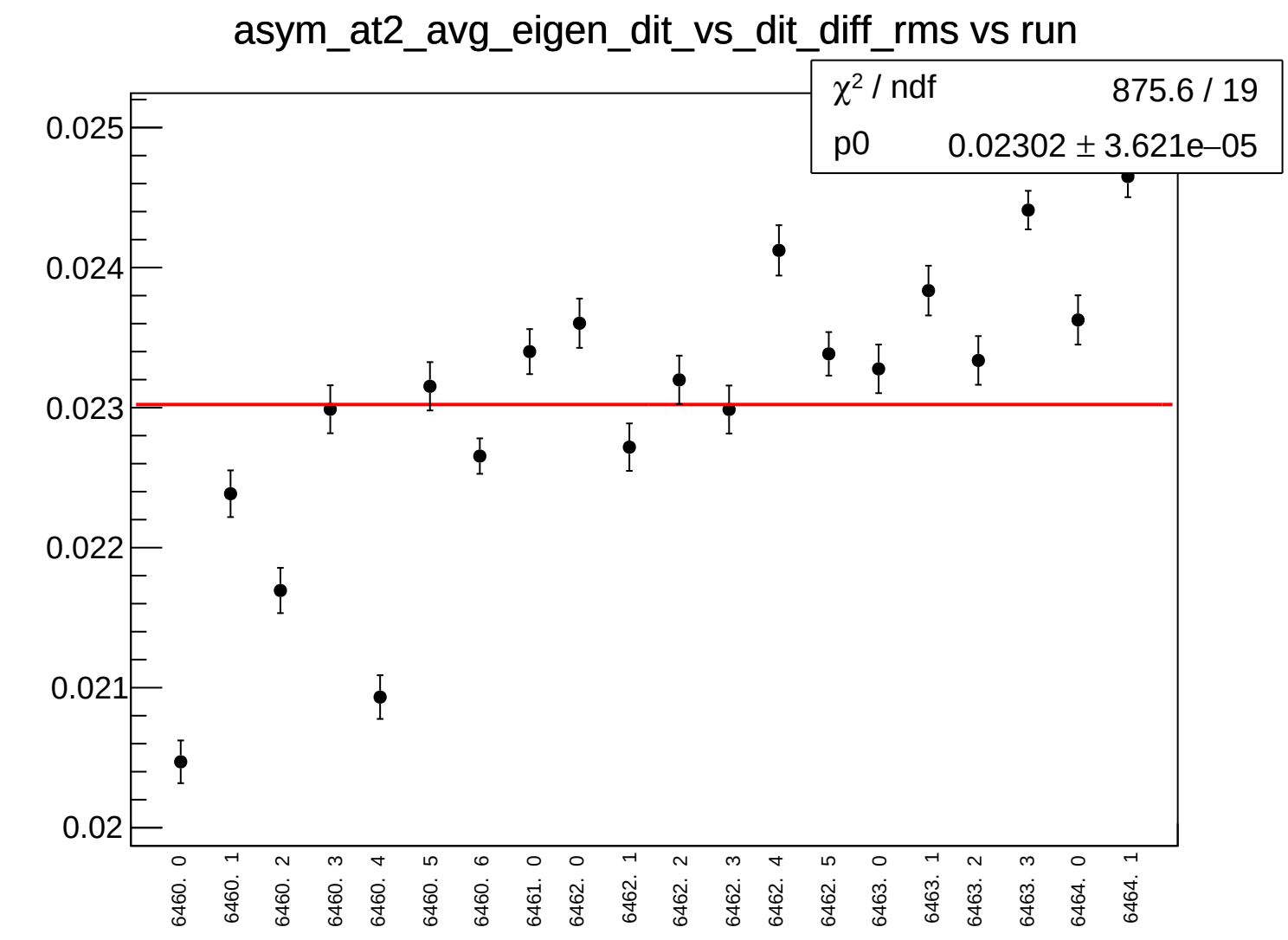

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 19.23 / 19
p0 −0.04746 ± 0.9642
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.277
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.04479
Std Dev 0.9796
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

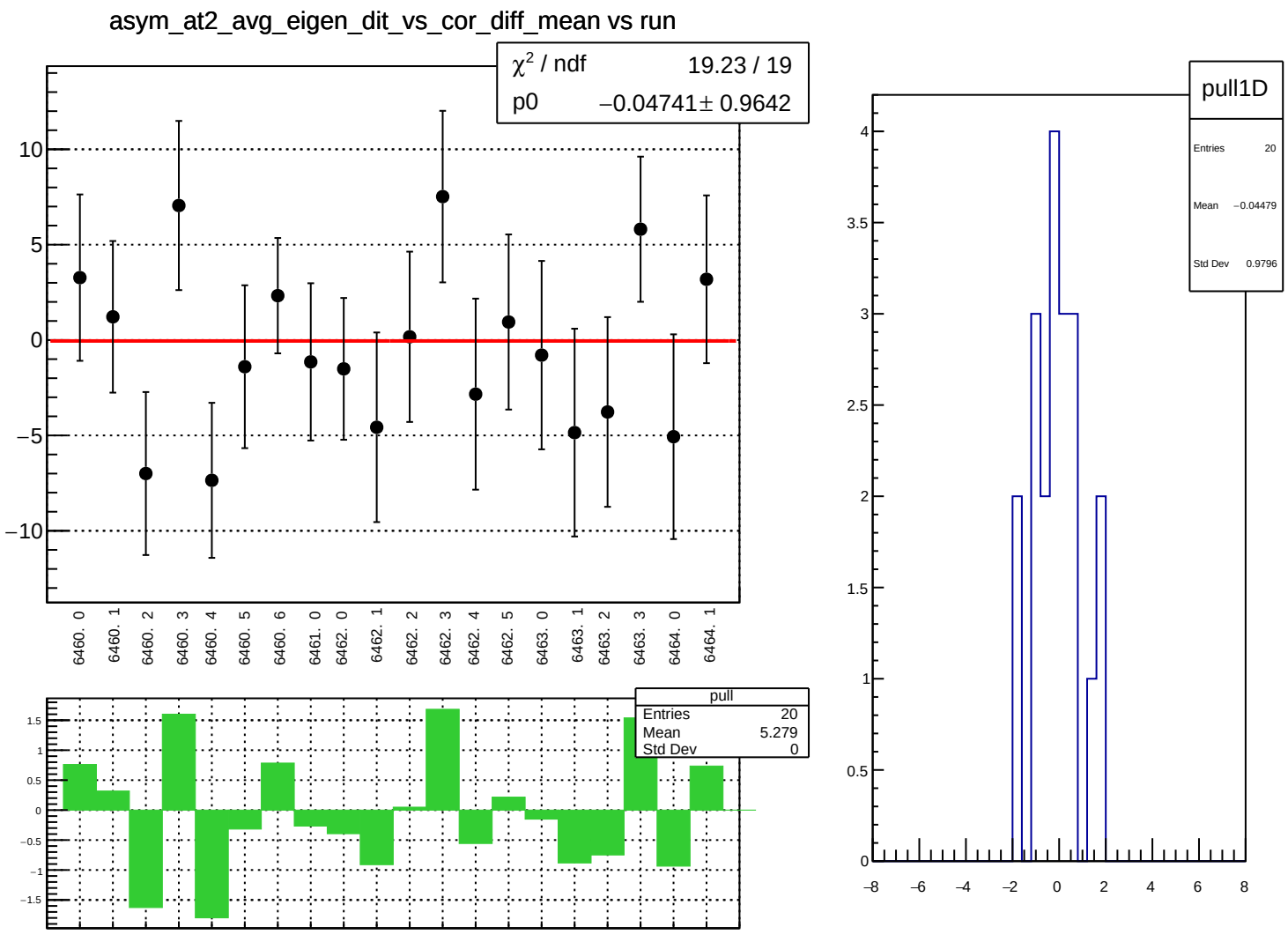

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5099 / 19
p0 431.2 ± 0.6818
540
520
500
480
460
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

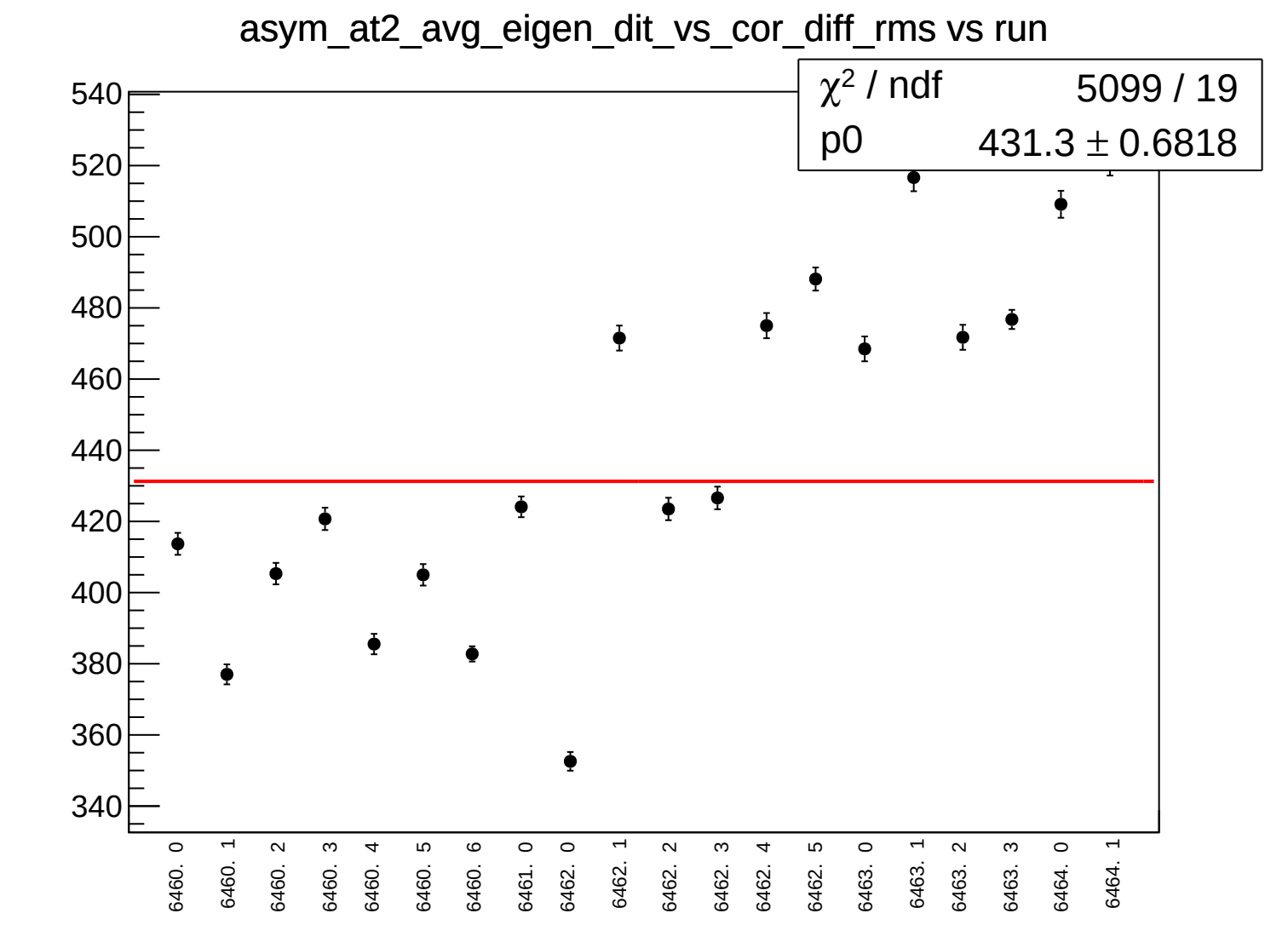

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.23 / 19
p0 −0.04746 ± 0.9642
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.277
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.04479
Std Dev 0.9796
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

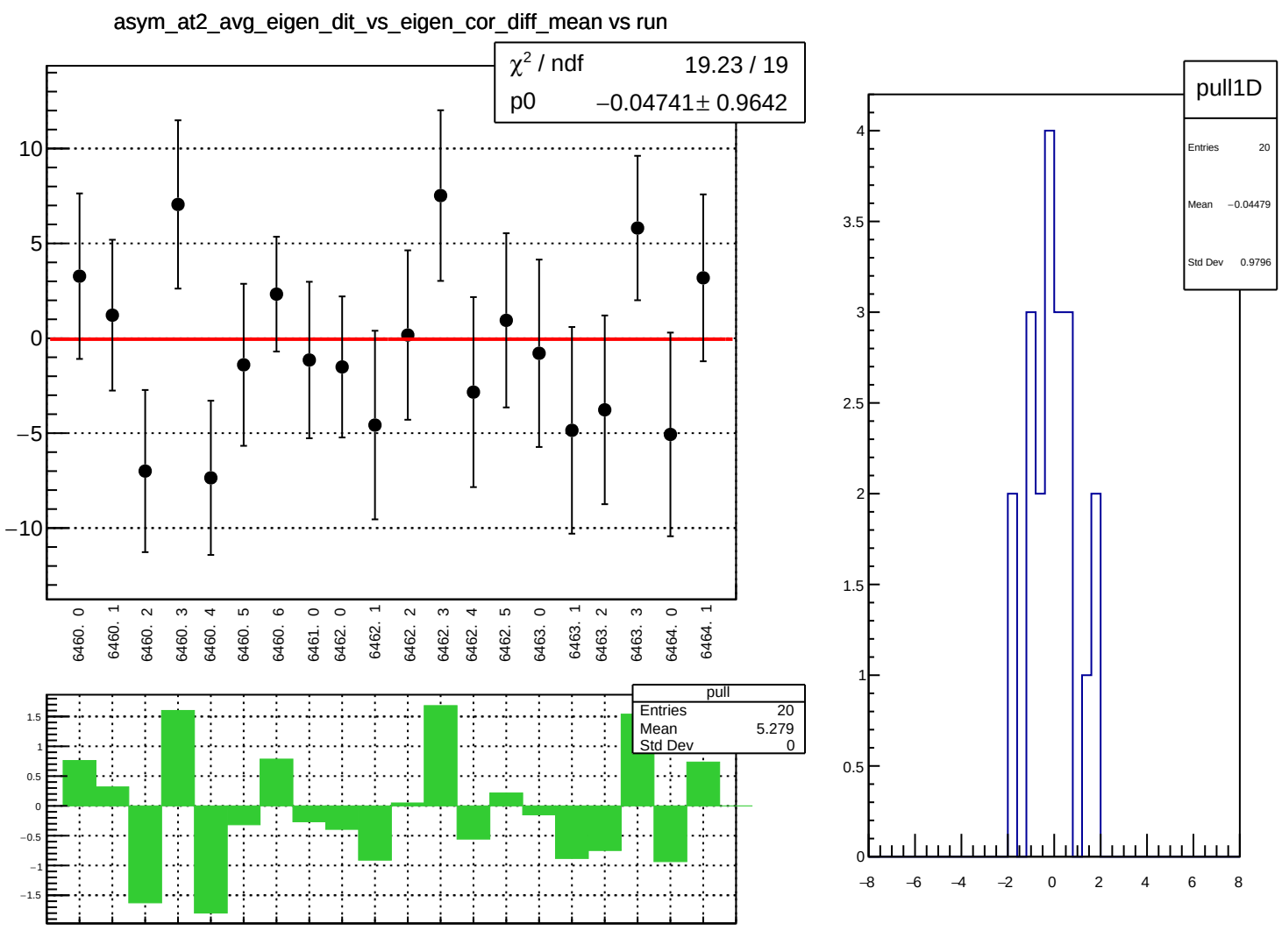

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5099 / 19
p0 431.2 ± 0.6818
540
520
500
480
460
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

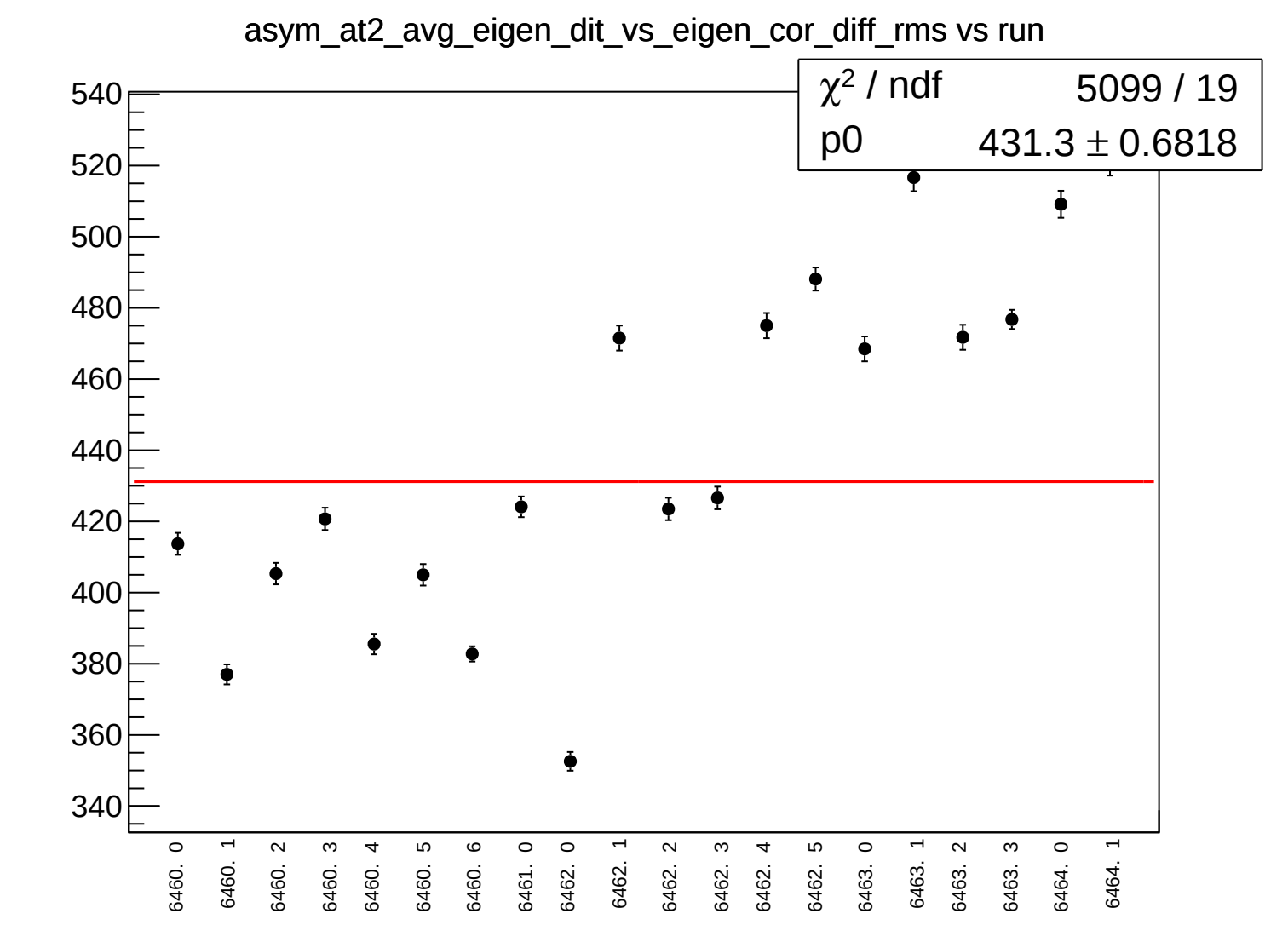

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.74 / 19
p0 4.908e−05 ± 5.12e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03323
Std Dev 0.8579
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

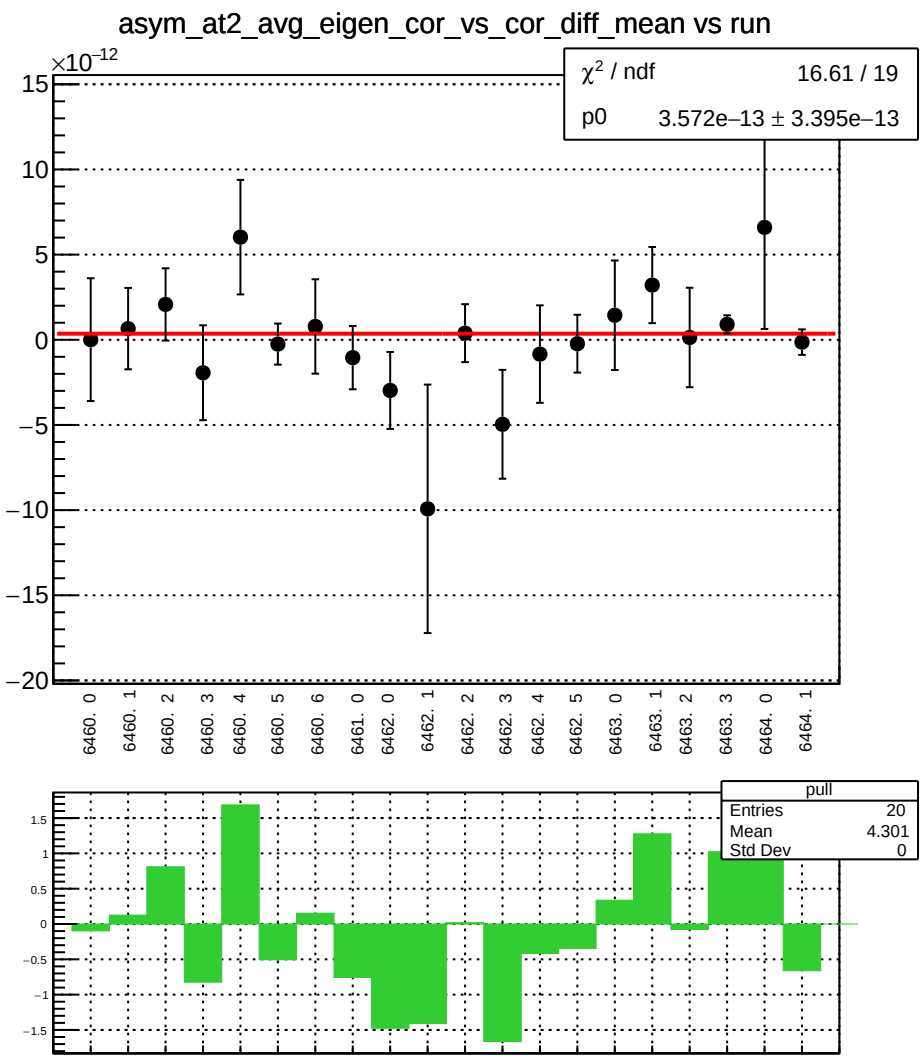

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 875.6 / 19
p0 0.02302 ± 3.621e−05
0.025
0.024
0.023
0.022
0.021
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

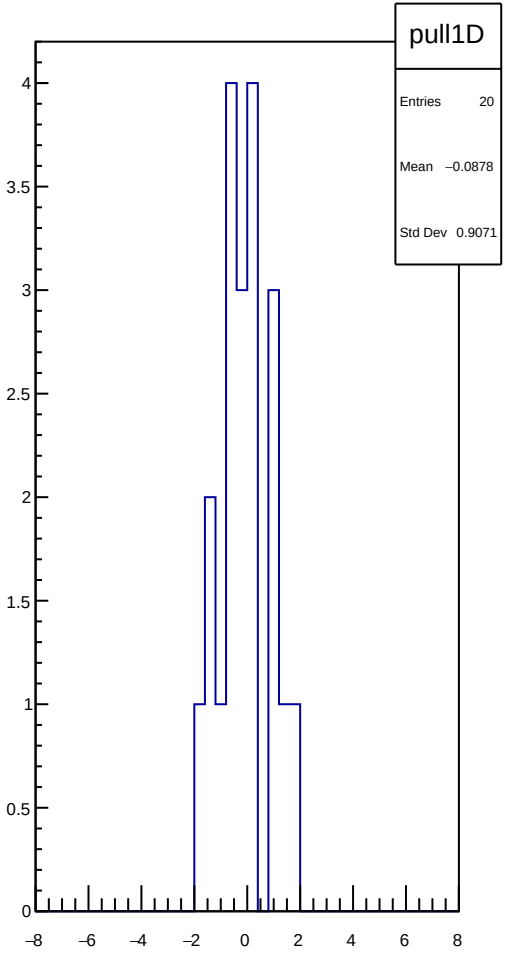

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.23 / 19
p0 −0.04741 ± 0.9642
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.279
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.04479
Std Dev 0.9796
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

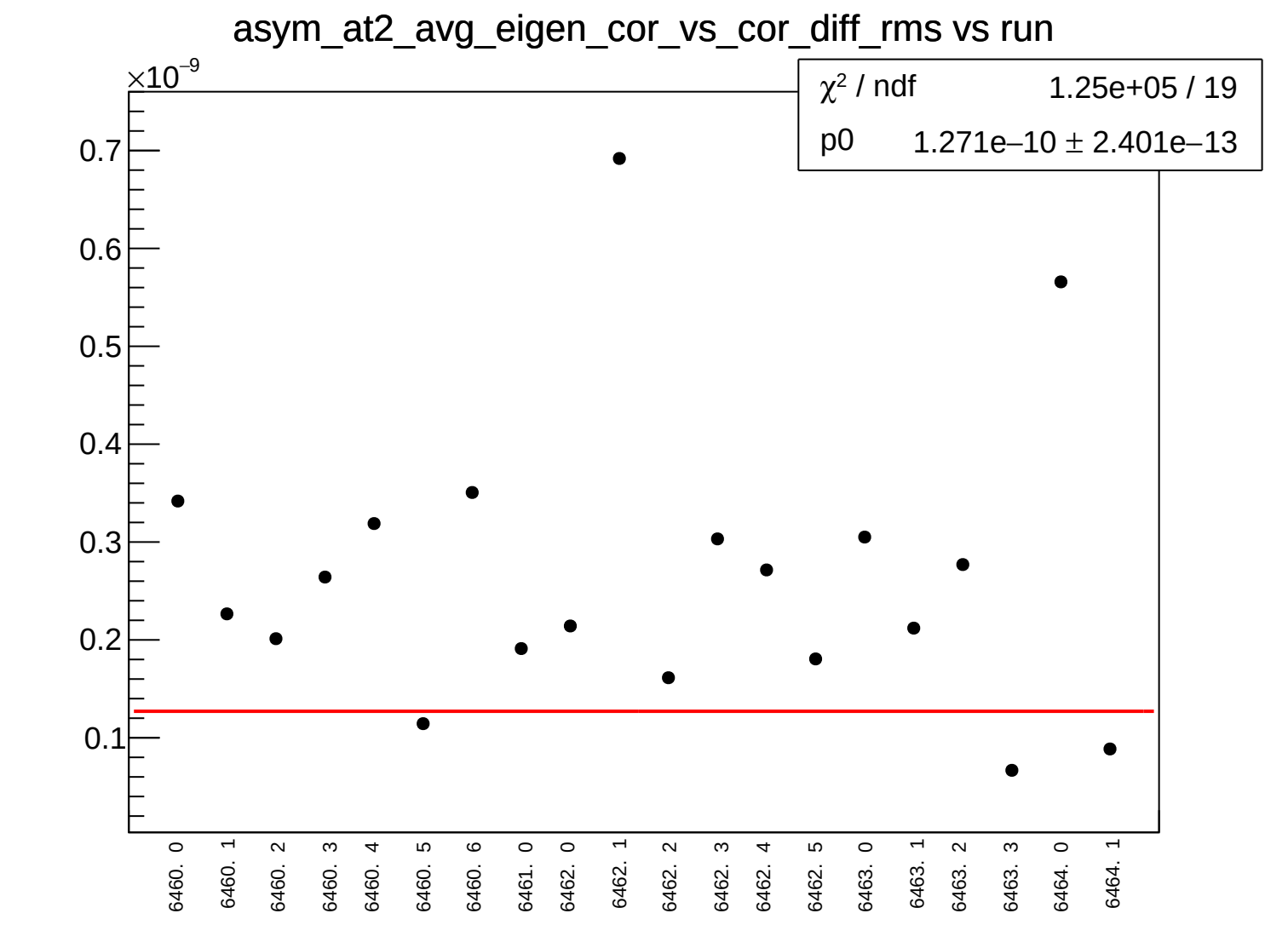

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5099 / 19
p0 431.3 ± 0.6818
540
520
500
480
460
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

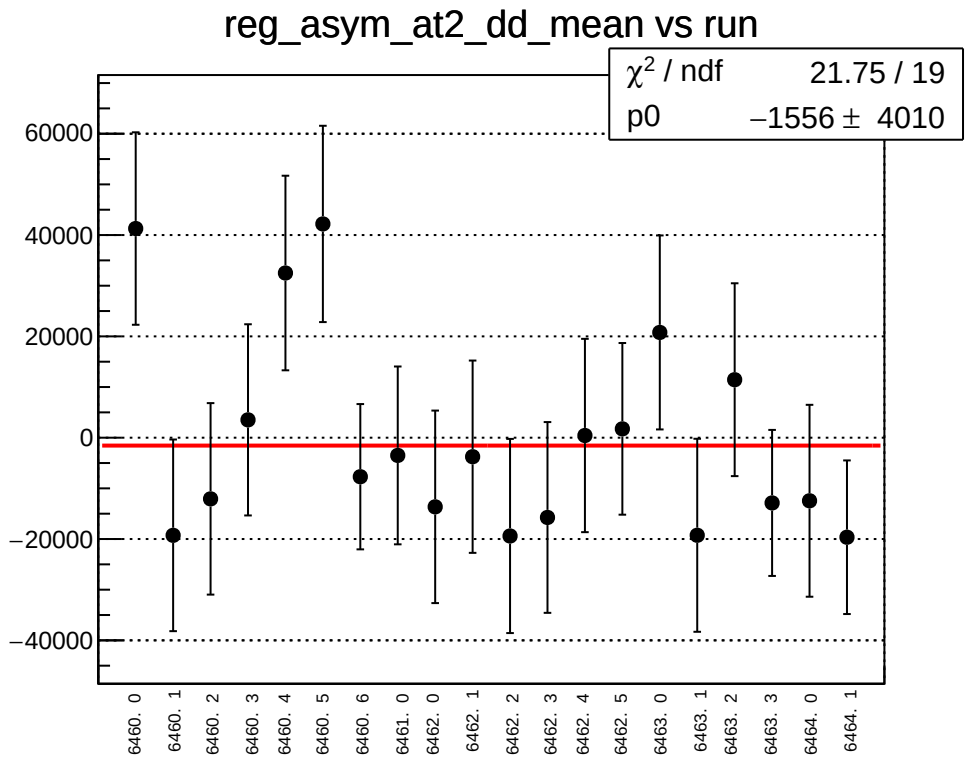

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.23 / 19
p0 −0.04741± 0.9642
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.279
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.04479
Std Dev 0.9796
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

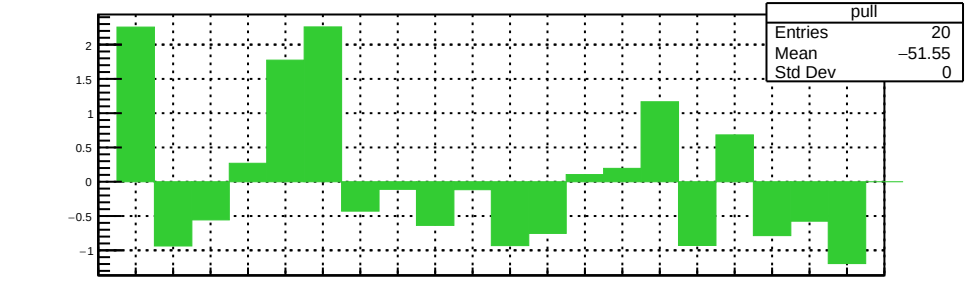

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5099 / 19
p0 431.3 ± 0.6818
540
520
500
480
460
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

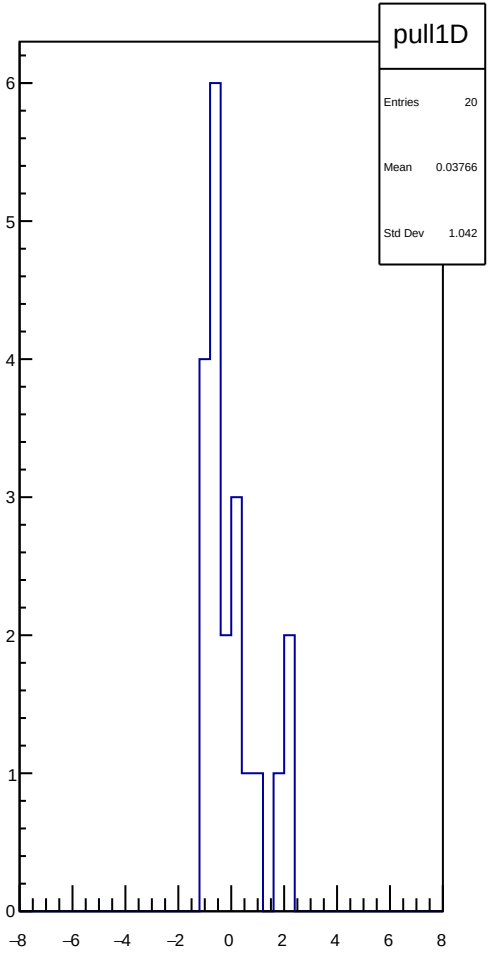

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.61 / 19
p0 3.572e−13 ± 3.395e−13
15
10
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.301
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

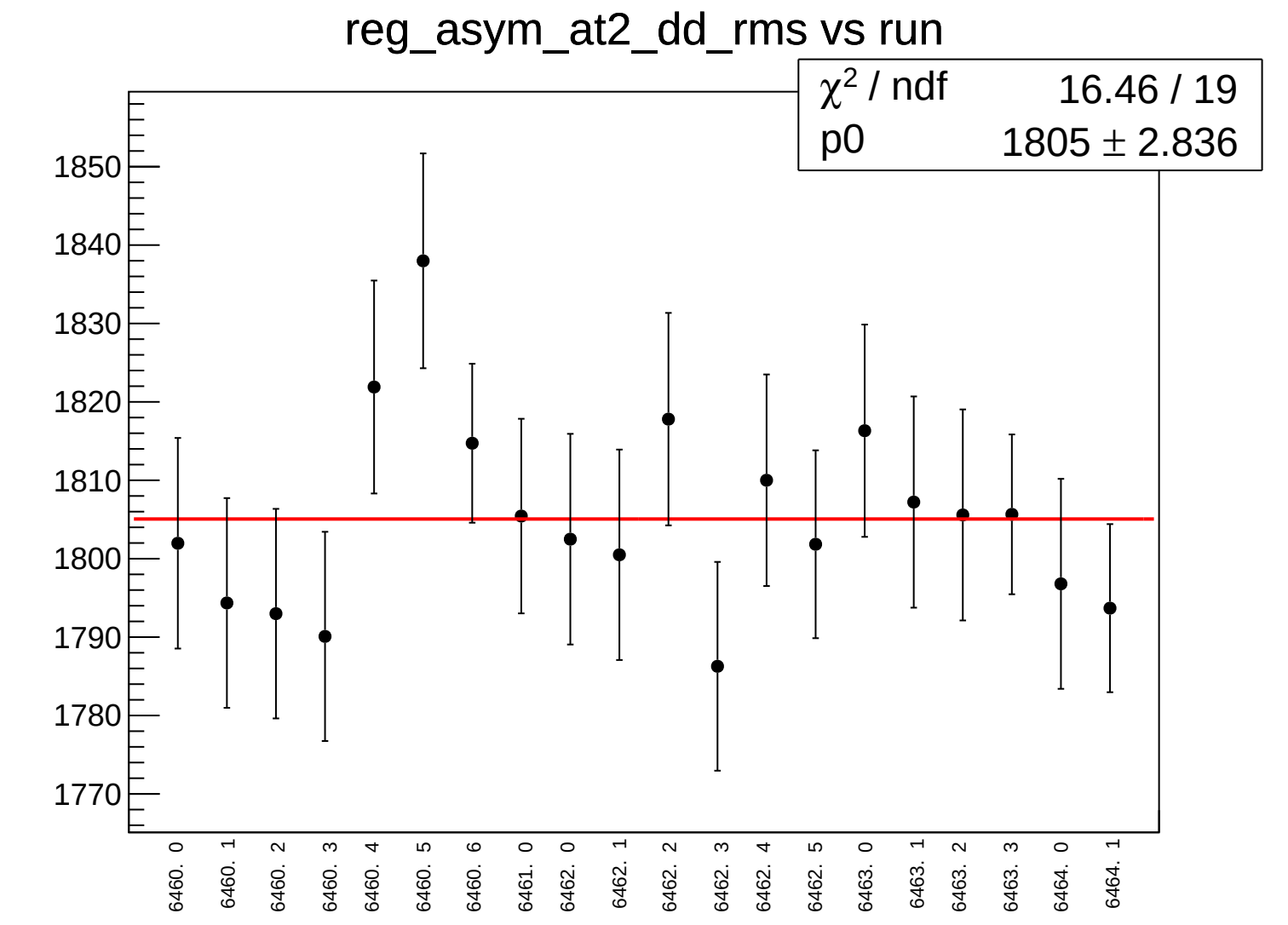

pull1D
Entries 20
Mean −0.0878
Std Dev 0.9071
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

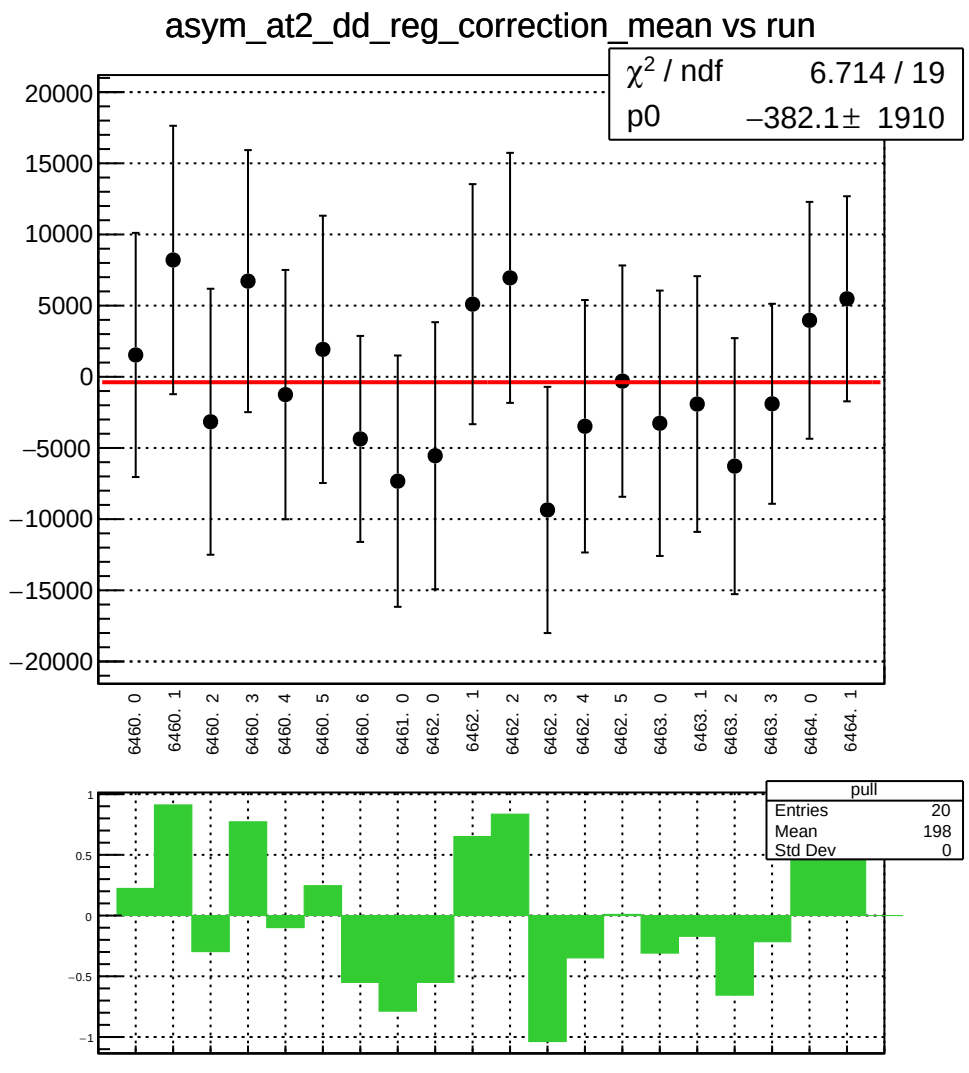

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.25e+05 / 19
p0 1.271e−10 ± 2.401e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

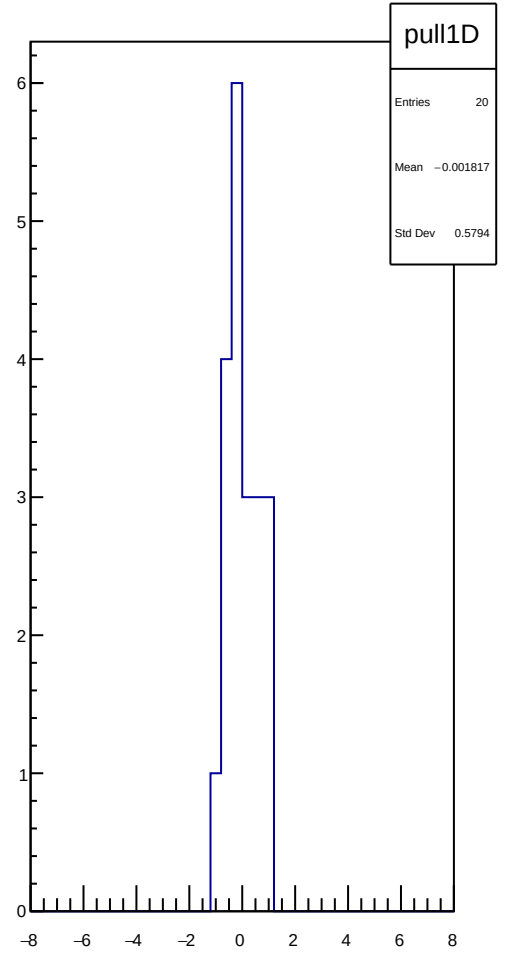

reg_asym_at2_dd_mean vs run
χ² / ndf 21.75 / 19
p0 −1556 ± 4010
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

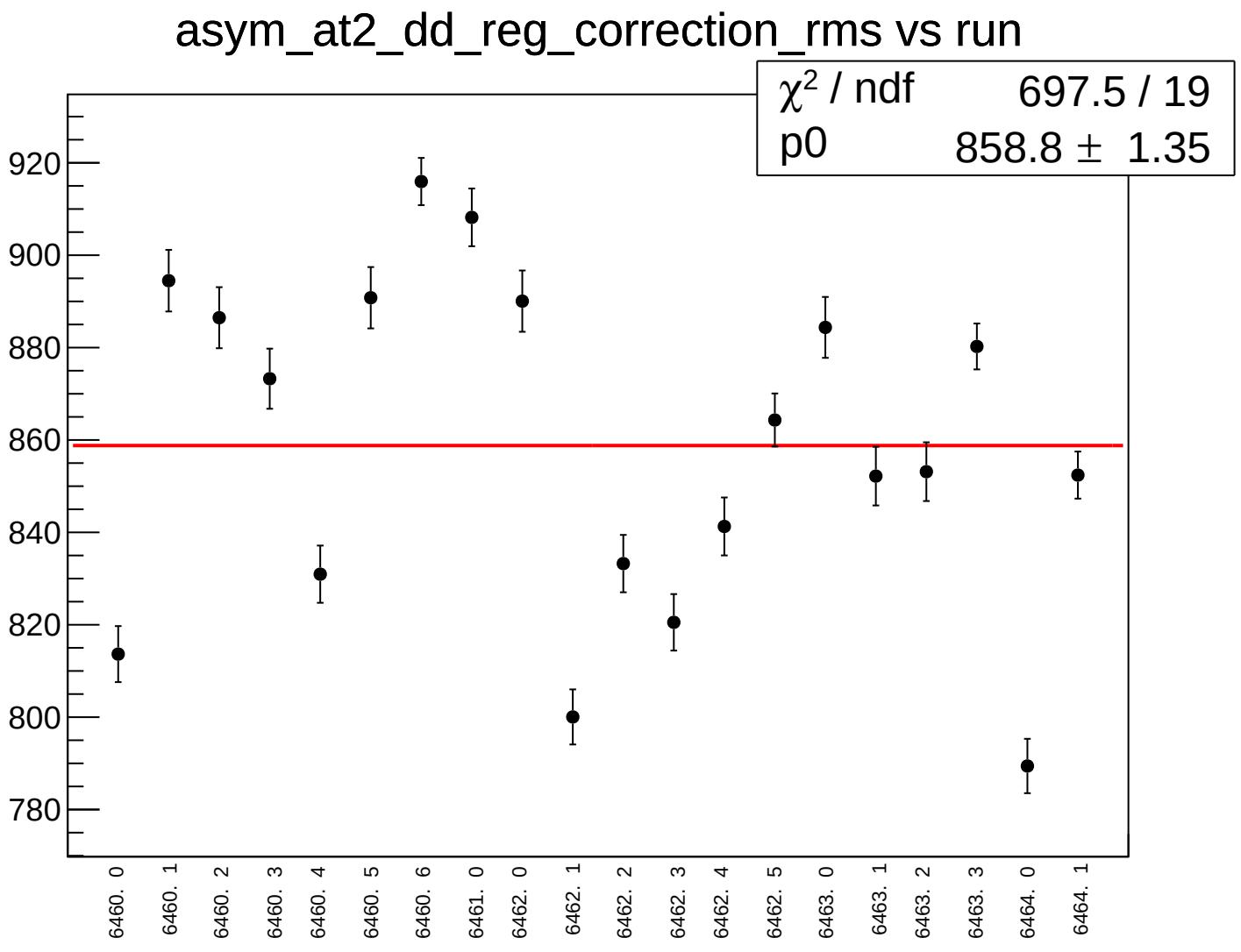

pull
Entries 20
Mean −51.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

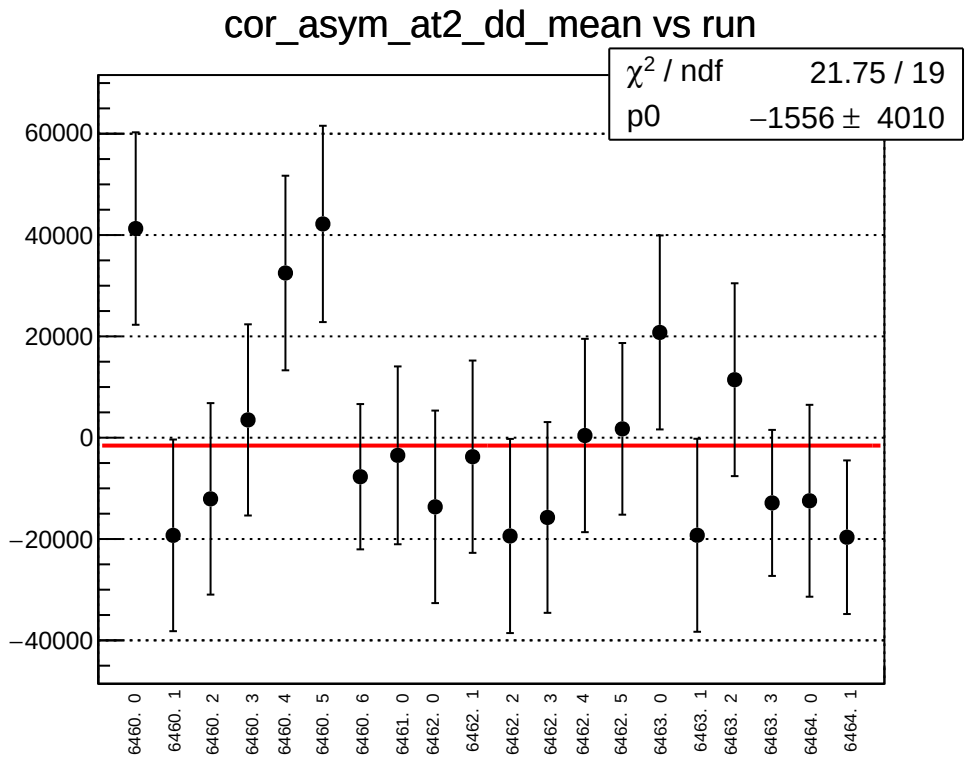

pull1D
Entries 20
Mean 0.03766
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

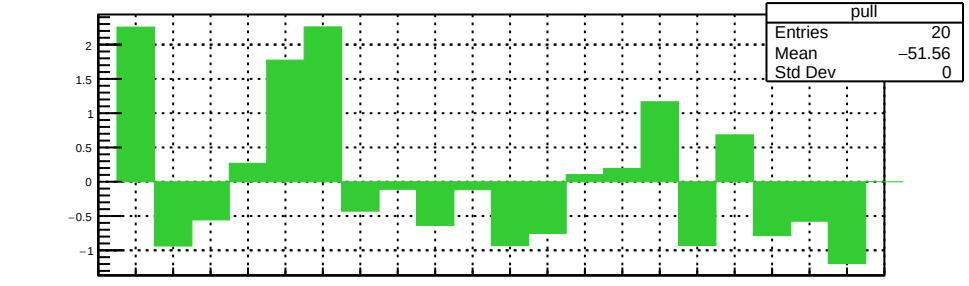

reg_asym_at2_dd_rms vs run
χ² / ndf 16.46 / 19
p0 1805 ± 2.836
1850
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

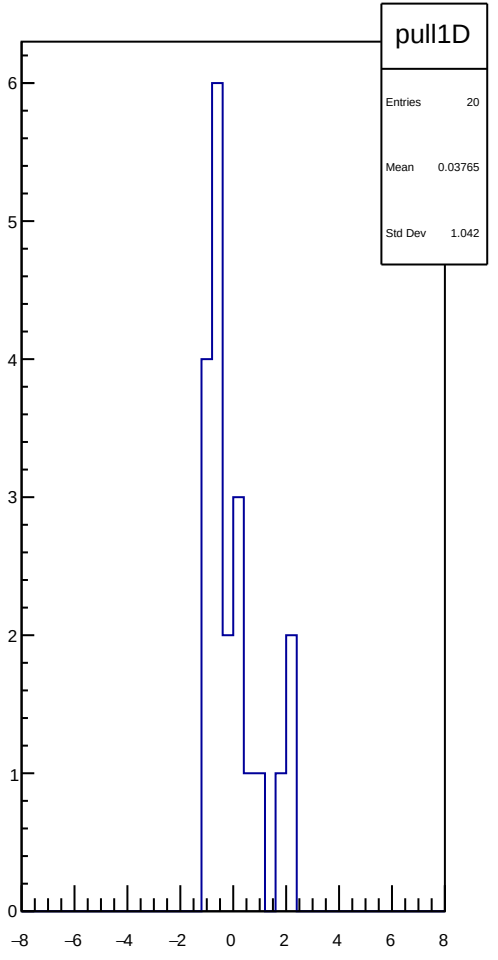

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 6.714 / 19
p0 −382.1± 1910
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 198
Std Dev 0
1
0.5
0
−0.5
−1

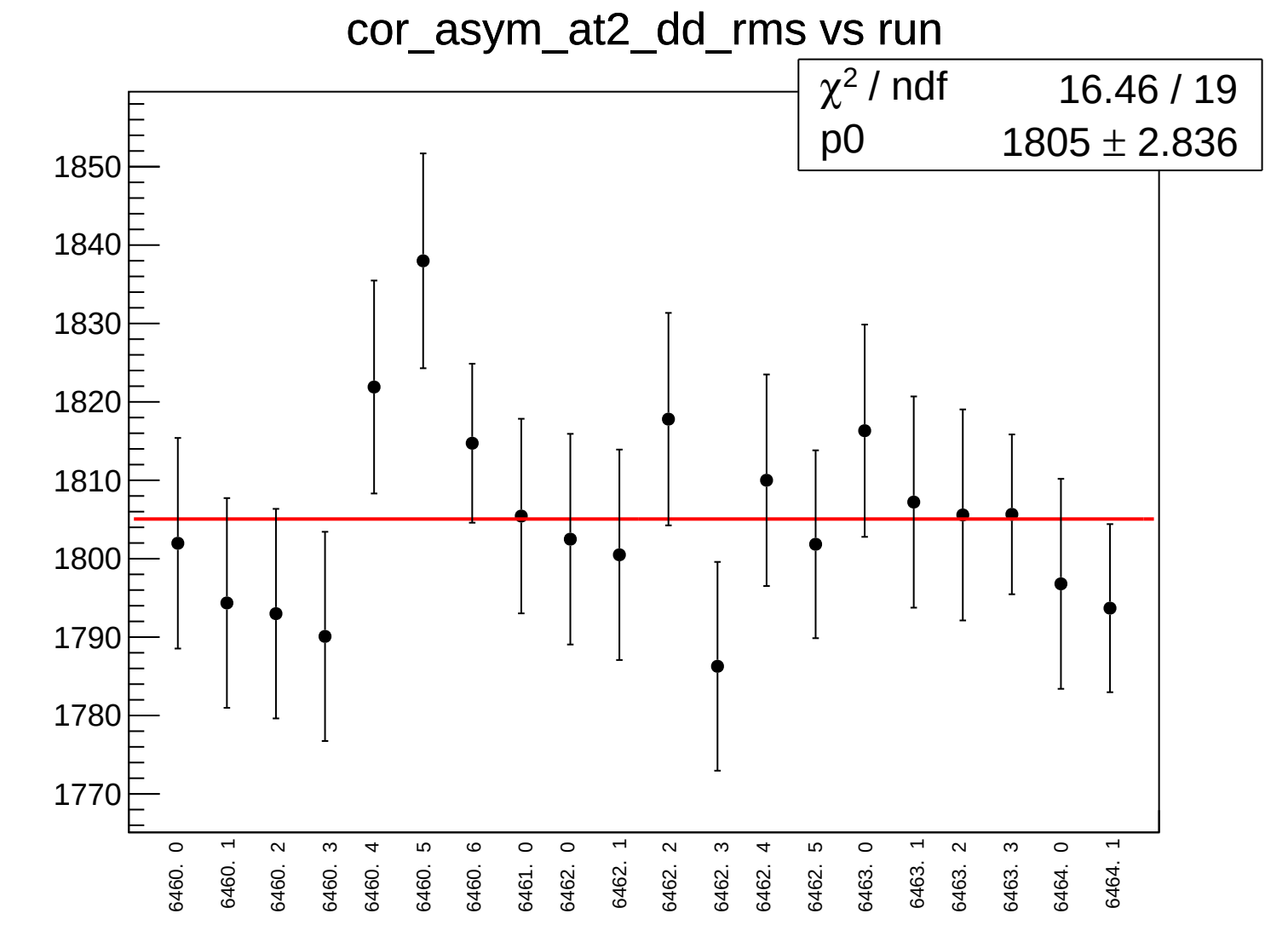

pull1D
Entries 20
Mean −0.001817
Std Dev 0.5794
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

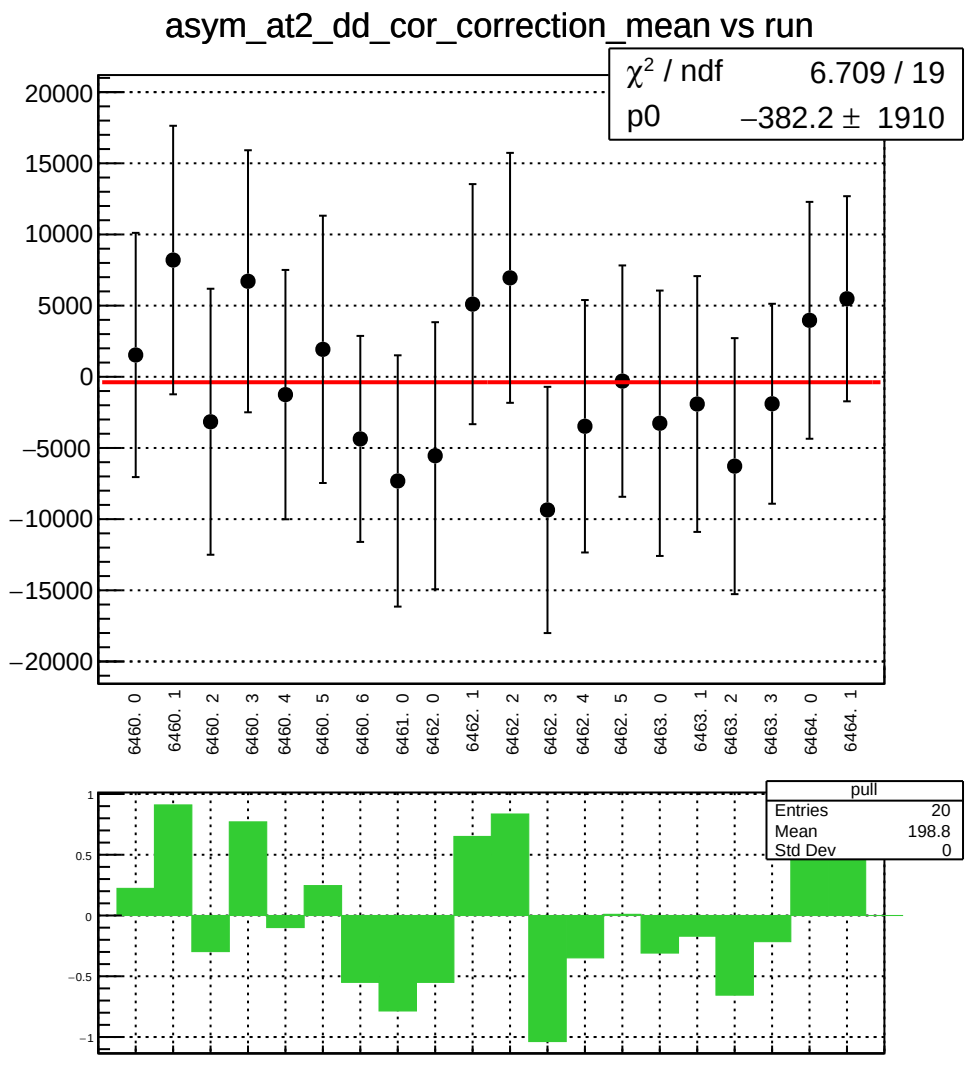

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 697.5 / 19
p0 858.8 ± 1.35
920
900
880
860
840
820
800
780
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

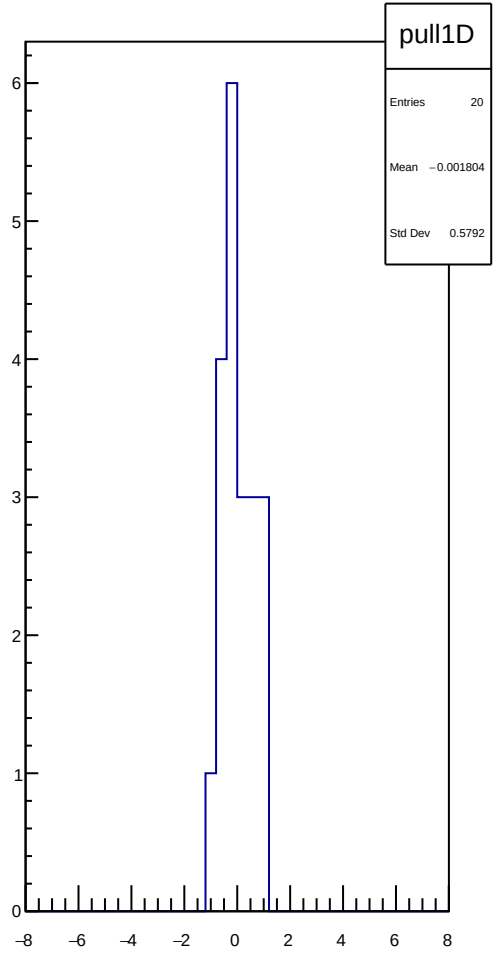

cor_asym_at2_dd_mean vs run
χ² / ndf 21.75 / 19
p0 −1556 ± 4010
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

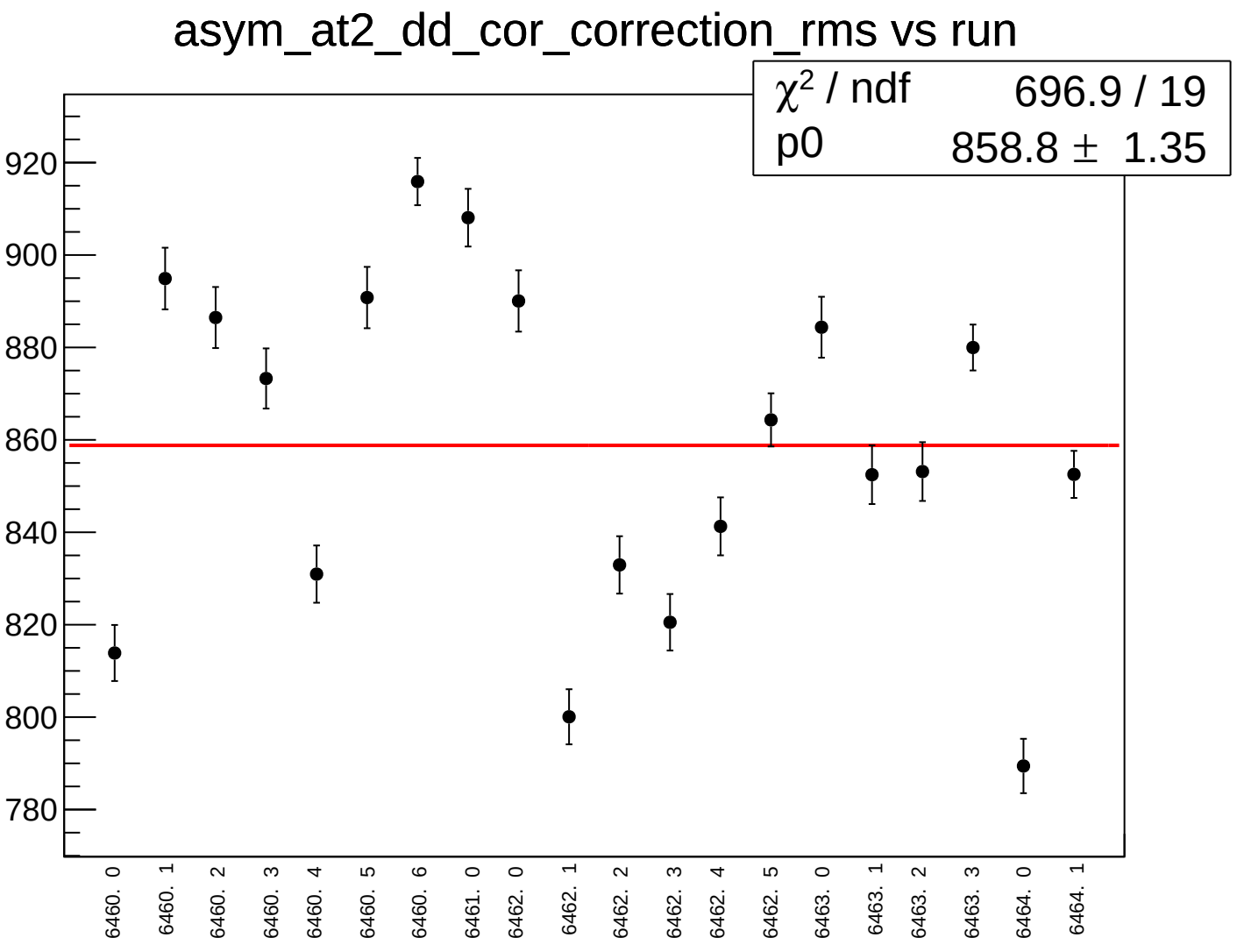

pull
Entries 20
Mean −51.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

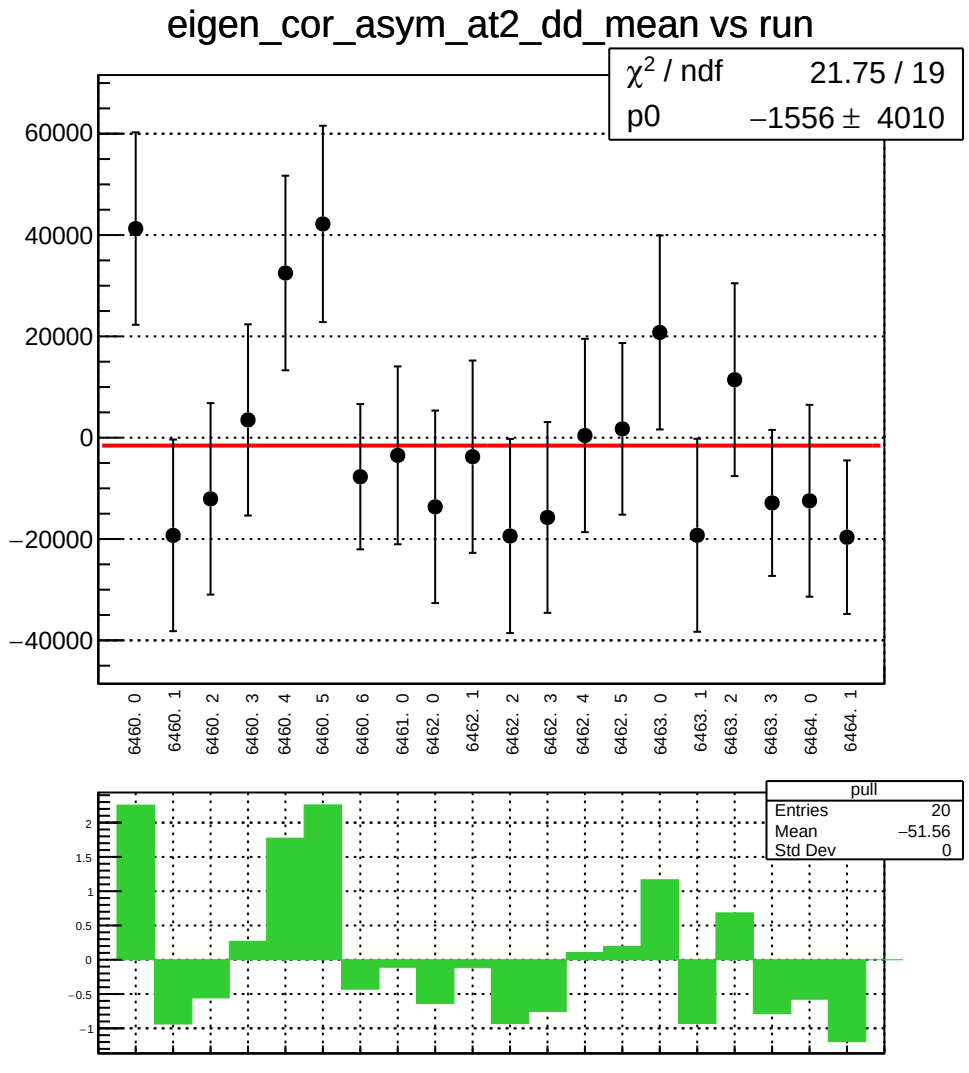

pull1D
Entries 20
Mean 0.03765
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

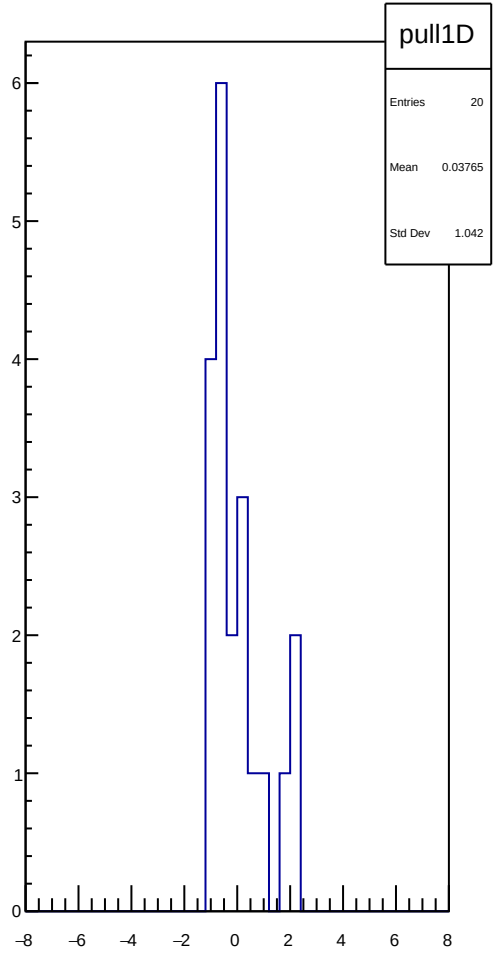

cor_asym_at2_dd_rms vs run
χ² / ndf 16.46 / 19
p0 1805 ± 2.836
1850
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

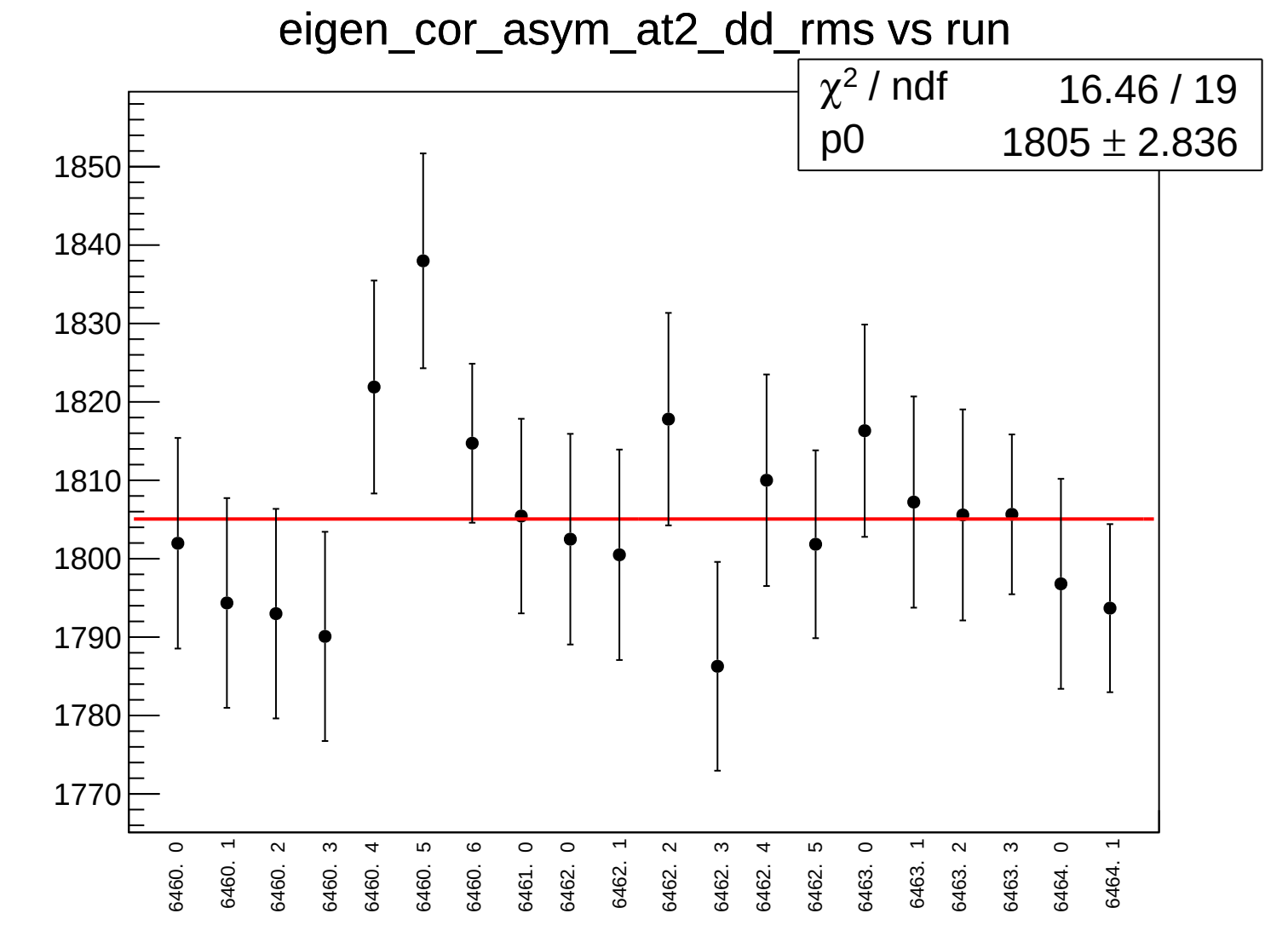

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 6.709 / 19
p0 −382.2 ± 1910
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 198.8
Std Dev 0
1
0.5
0
−0.5
−1

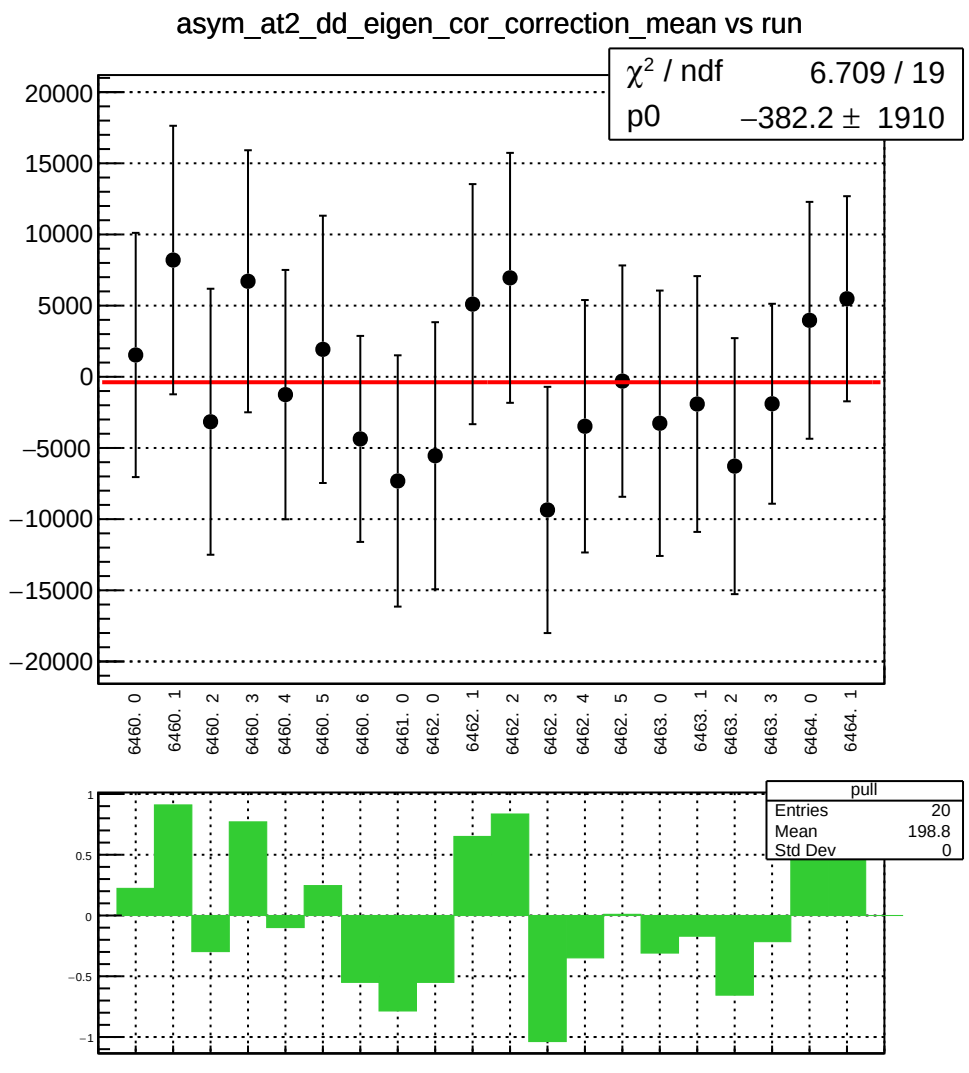

pull1D
Entries 20
Mean −0.001804
Std Dev 0.5792
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

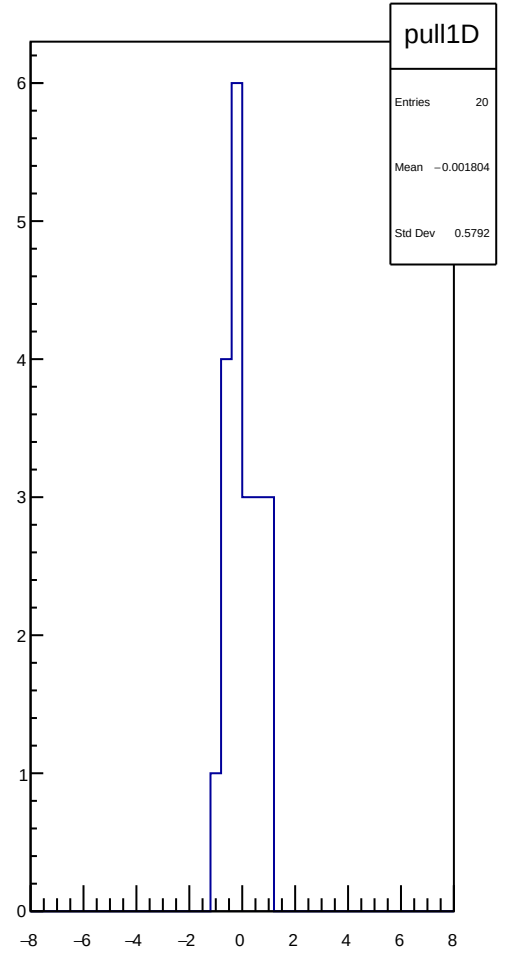

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 696.9 / 19
p0 858.8 ± 1.35
920
900
880
860
840
820
800
780
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

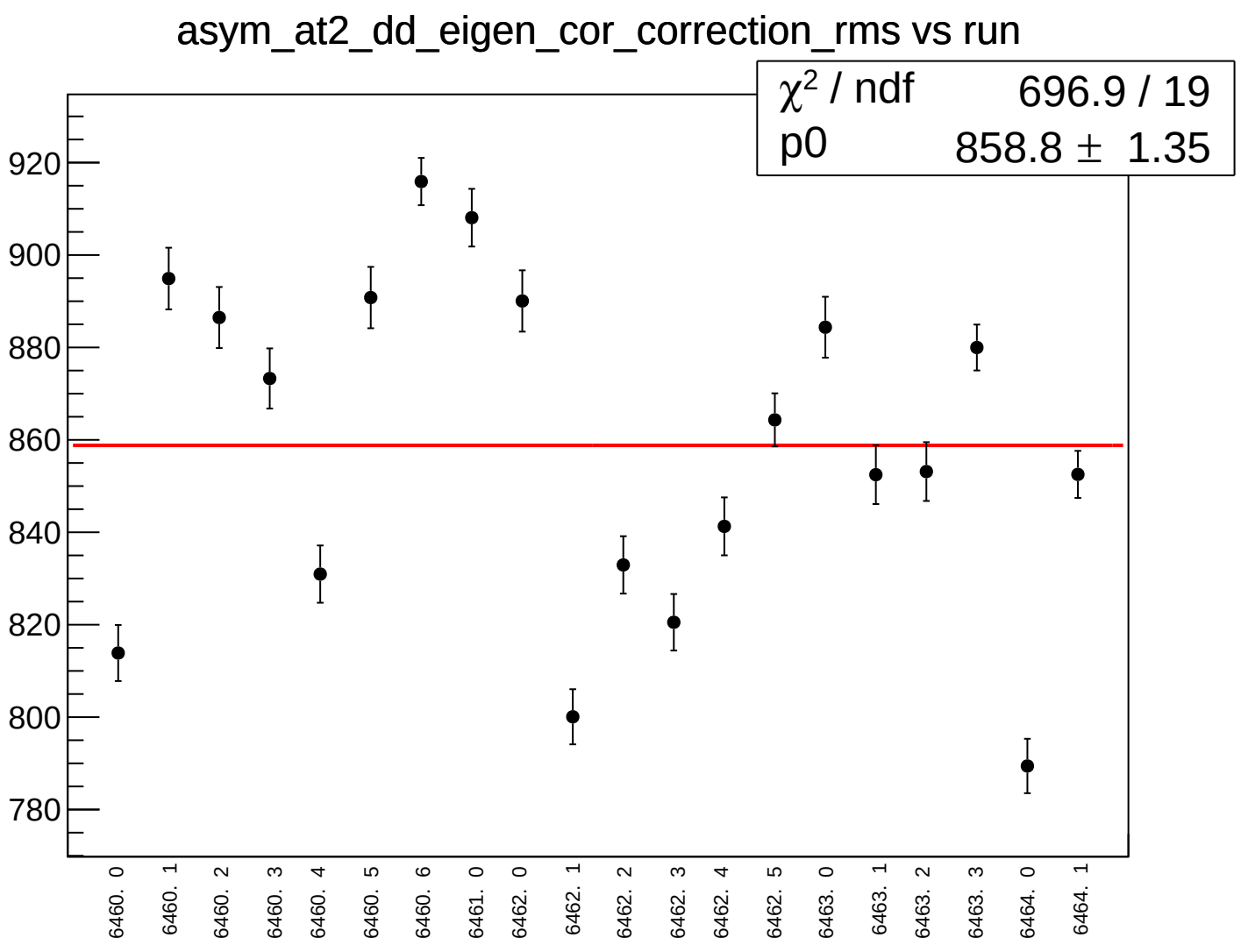

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 21.75 / 19
p0 −1556 ± 4010
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −51.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

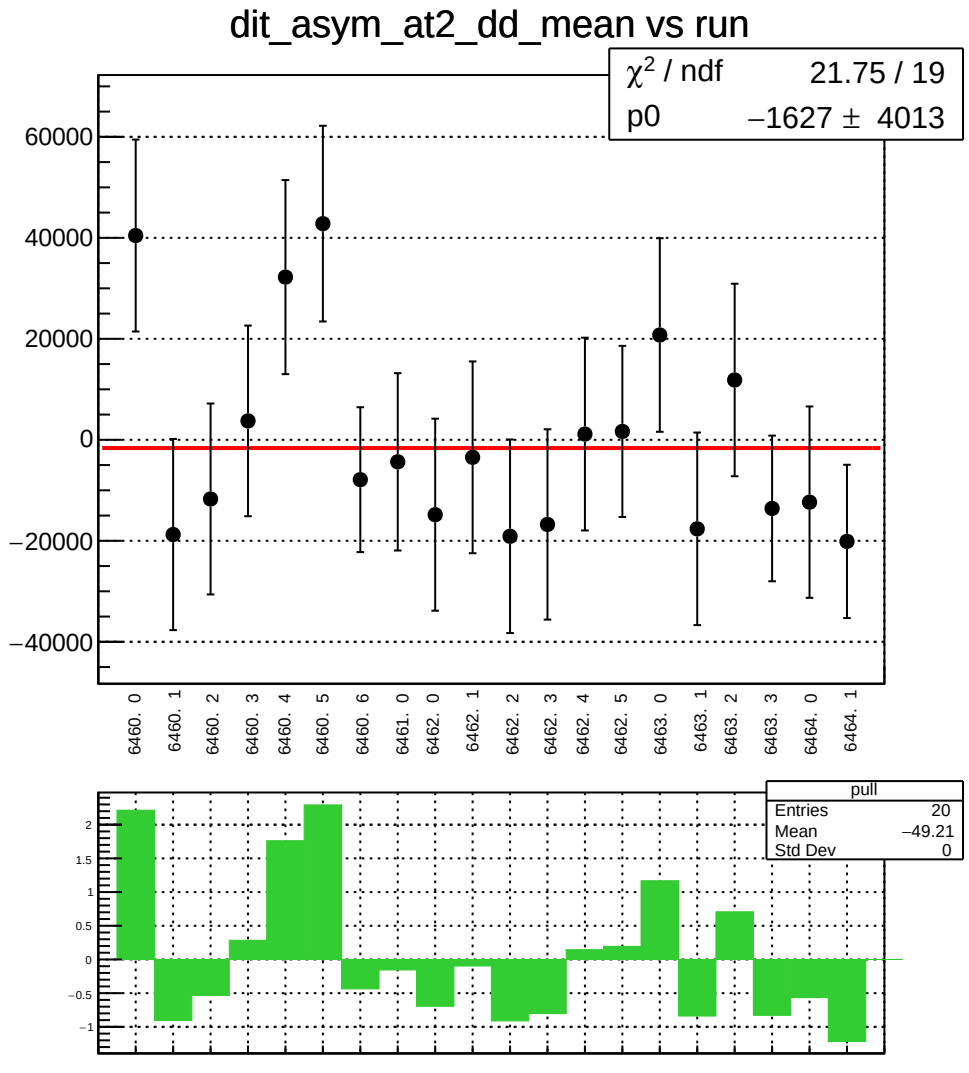

pull1D
Entries 20
Mean 0.03765
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

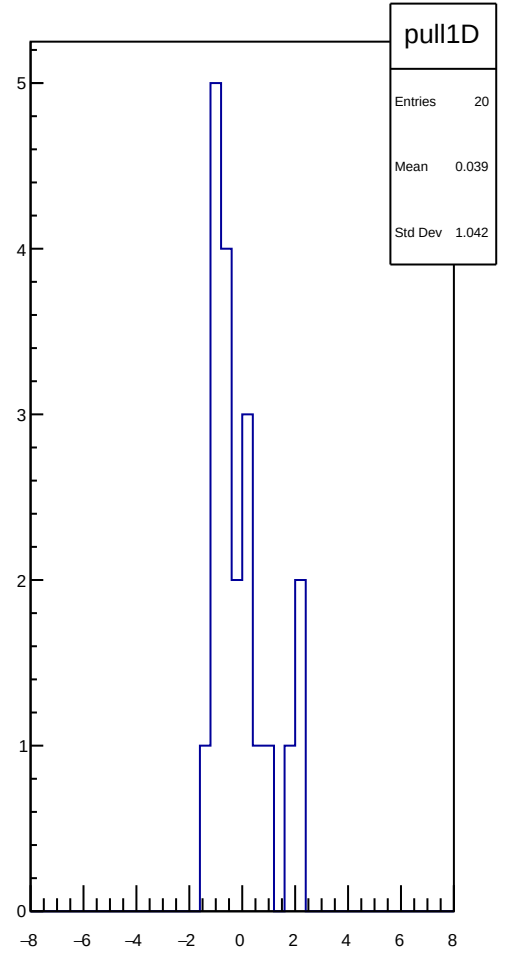

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 16.46 / 19
p0 1805 ± 2.836
1850
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

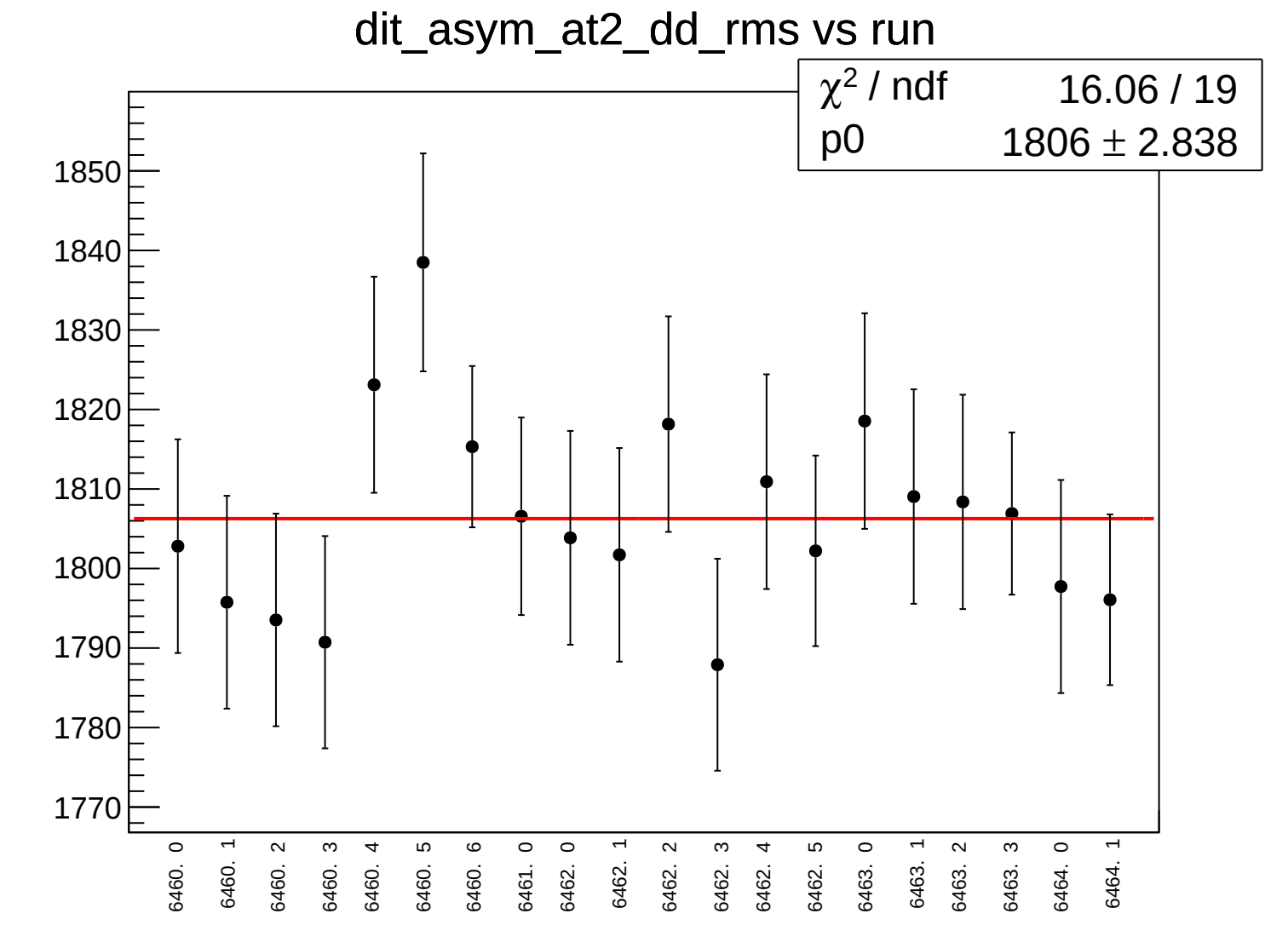

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 6.709 / 19
p0 −382.2 ± 1910
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 198.8
Std Dev 0
1
0.5
0
−0.5
−1

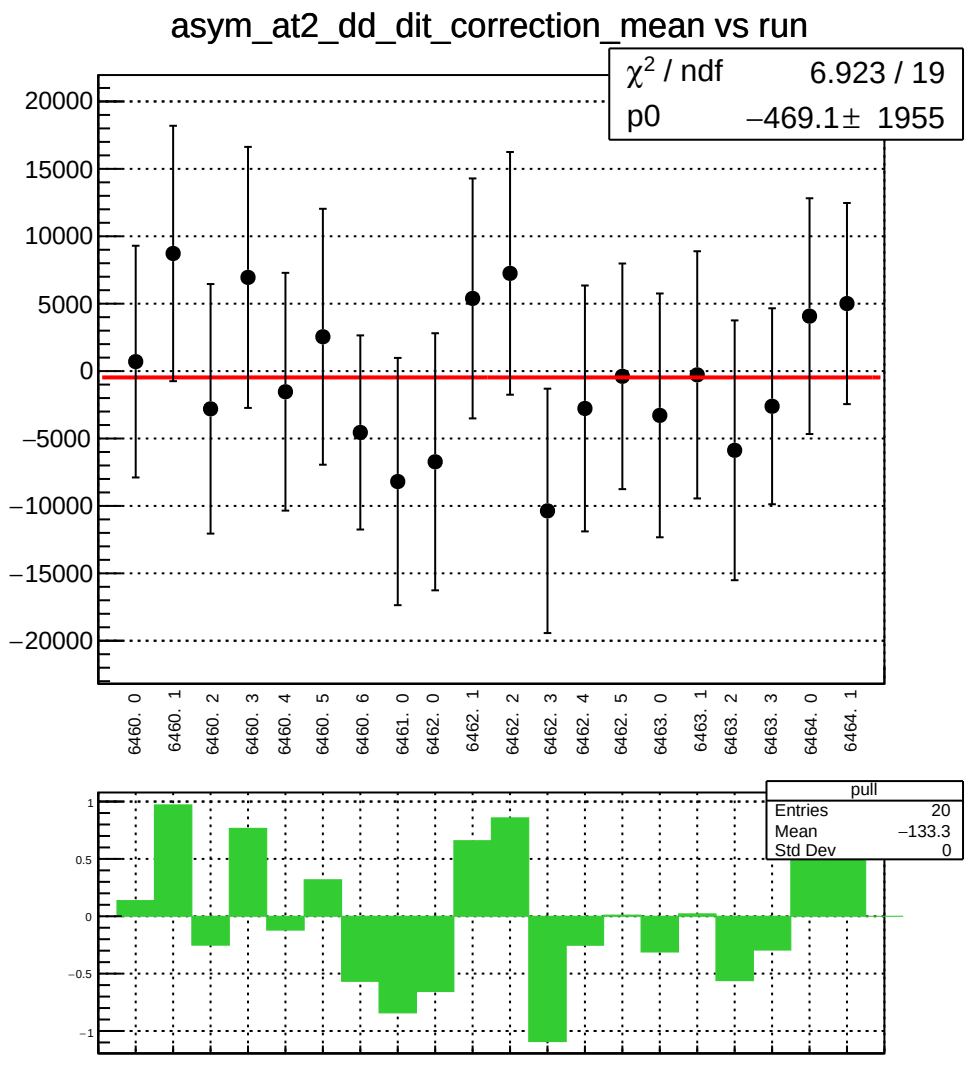

pull1D
Entries 20
Mean −0.001804
Std Dev 0.5792
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

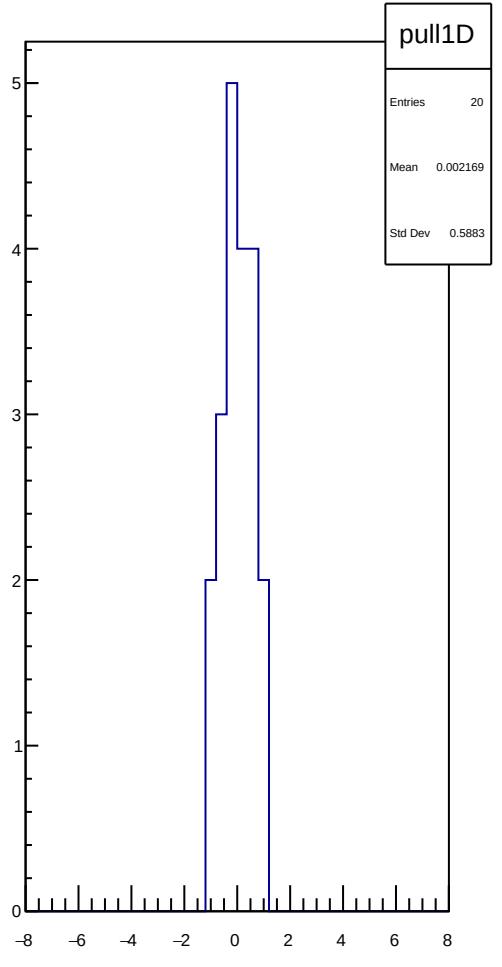

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 696.9 / 19
p0 858.8 ± 1.35
920
900
880
860
840
820
800
780
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

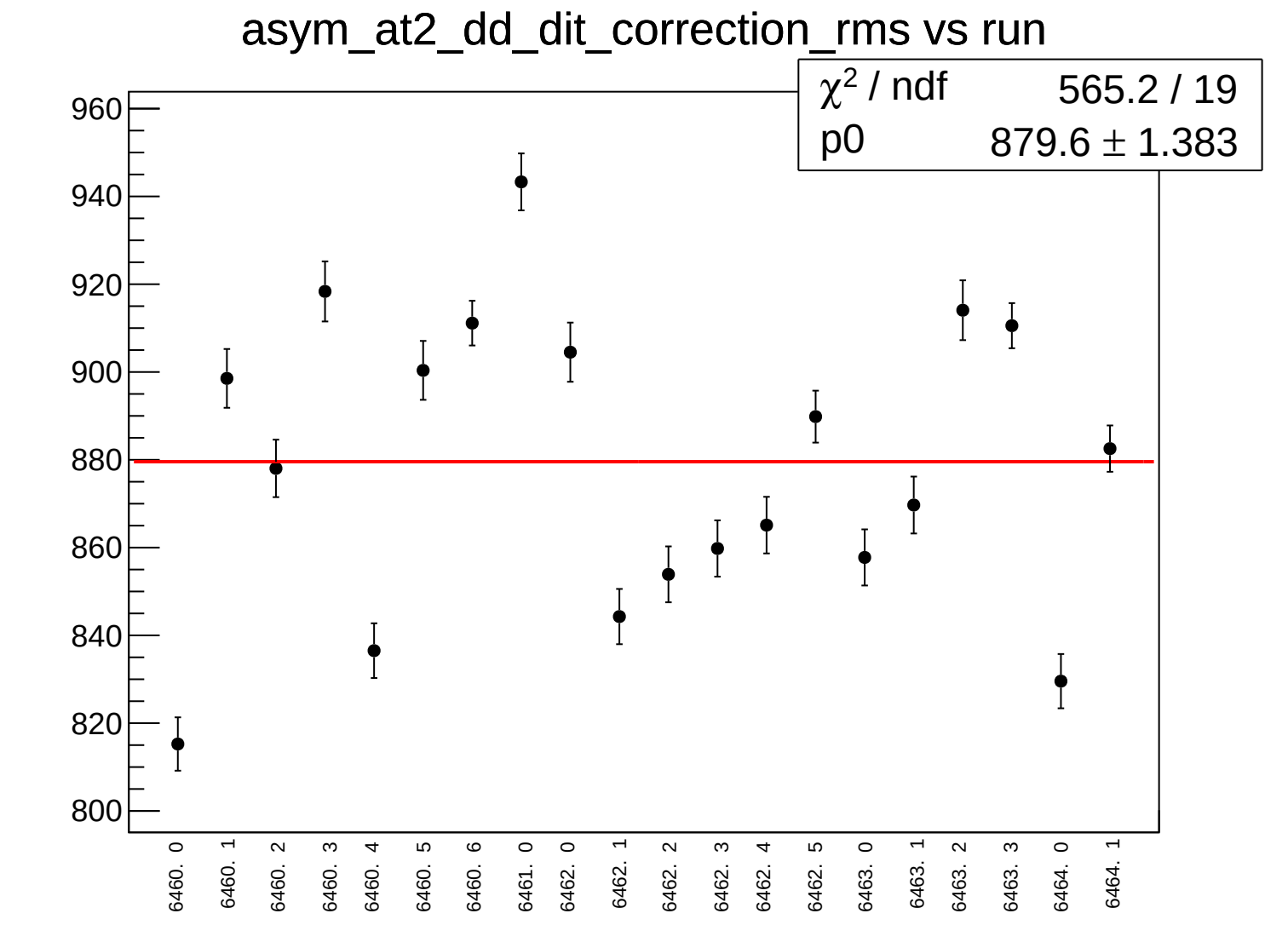

dit_asym_at2_dd_mean vs run
χ² / ndf 21.75 / 19
p0 −1627 ± 4013
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

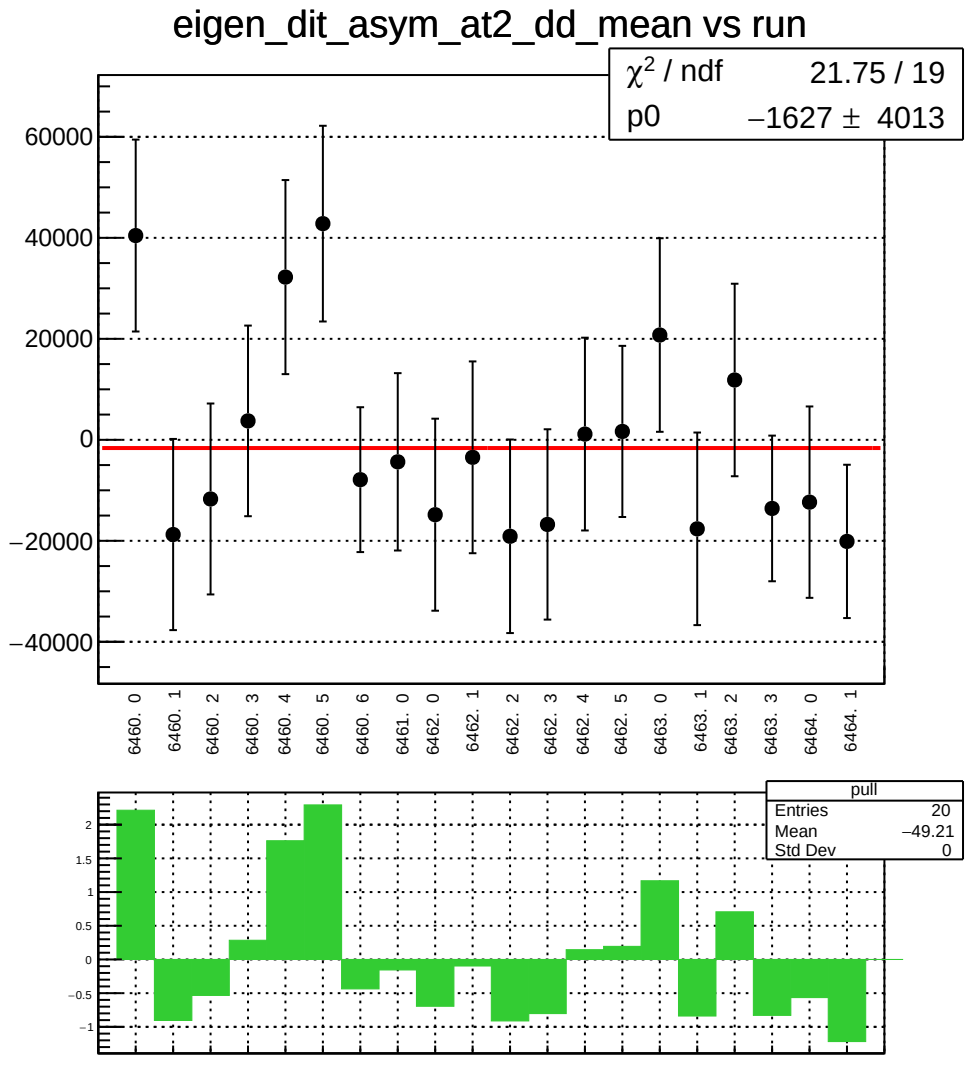

pull1D
Entries 20
Mean 0.039
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

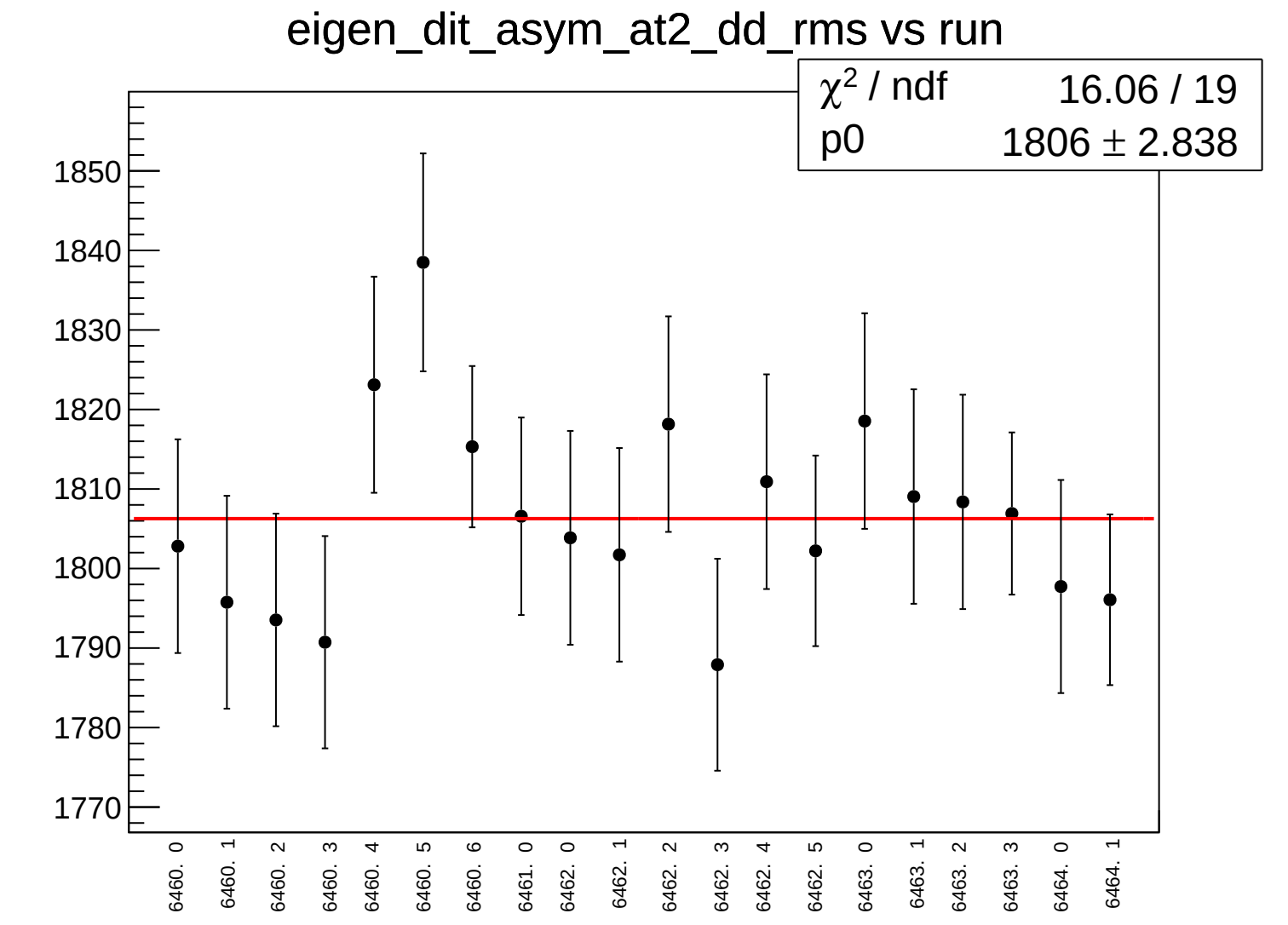

dit_asym_at2_dd_rms vs run
χ² / ndf 16.06 / 19
p0 1806 ± 2.838
1850
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

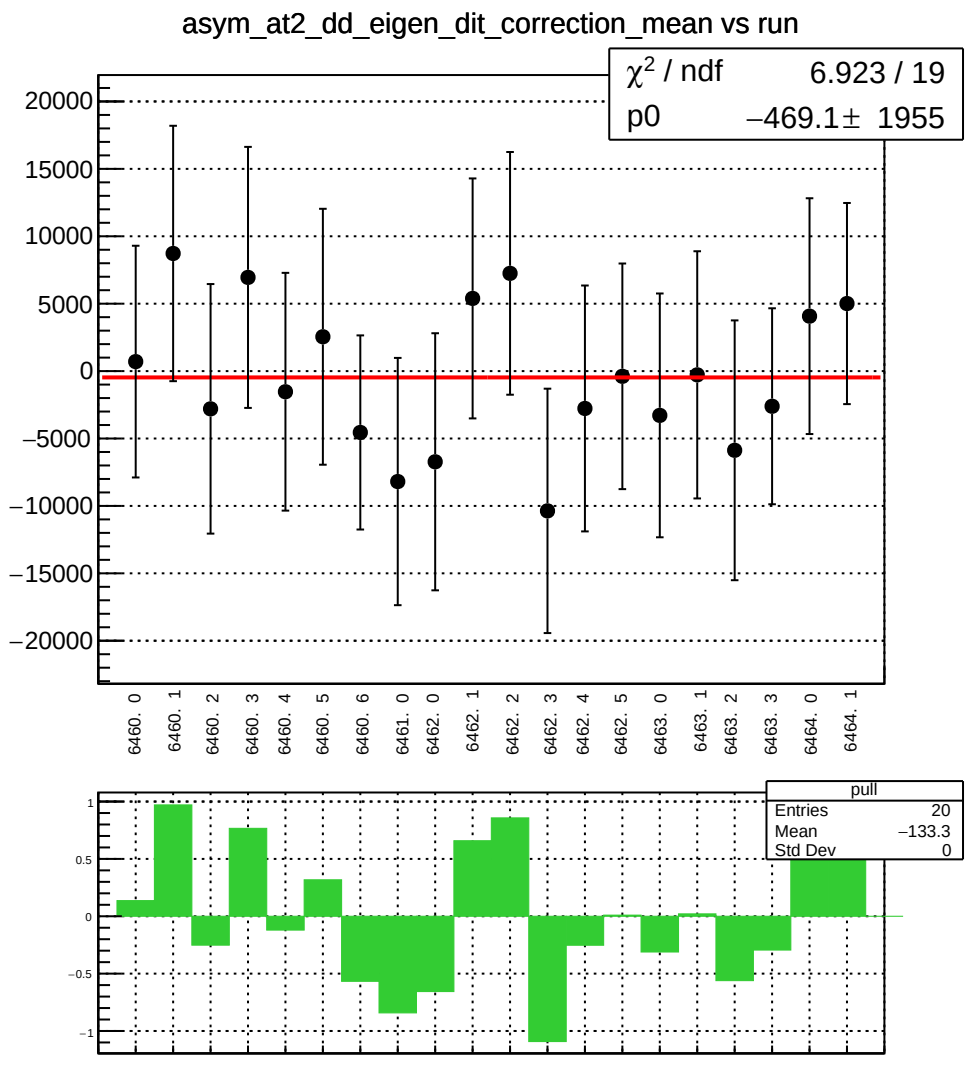

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 6.923 / 19
p0 −469.1± 1955
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −133.3
Std Dev 0
1
0.5
0
−0.5
−1

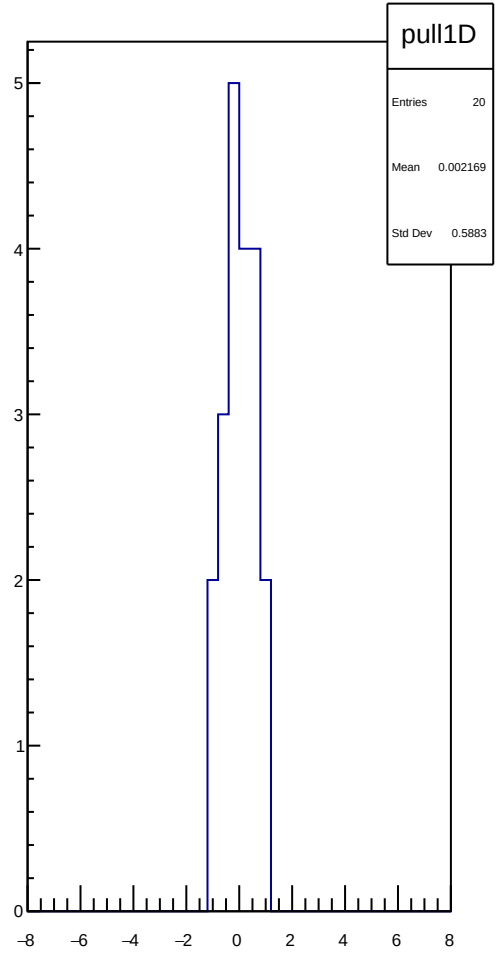

pull1D
Entries 20
Mean 0.002169
Std Dev 0.5883
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

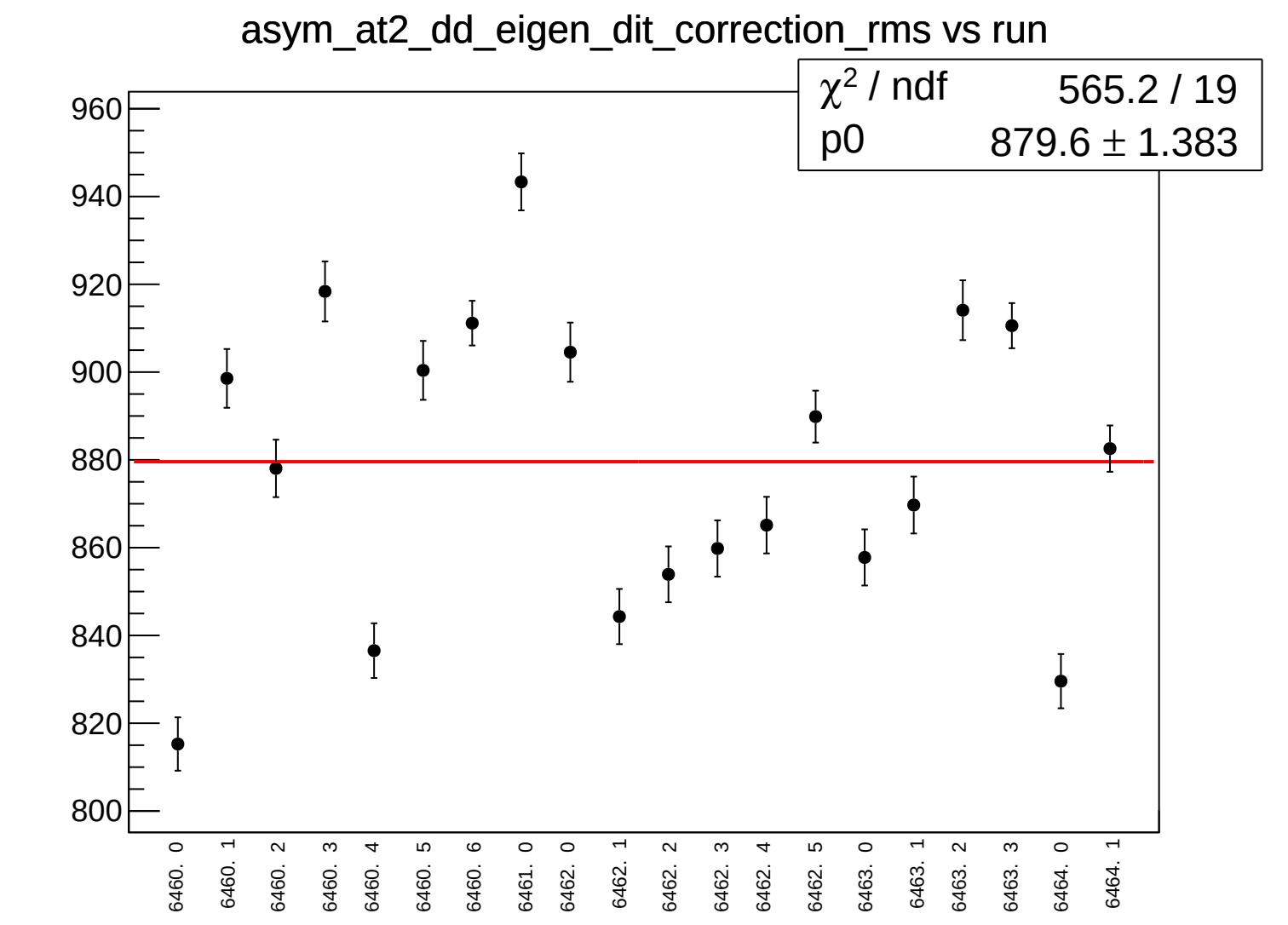

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 565.2 / 19
p0 879.6 ± 1.383
960
940
920
900
880
860
840
820
800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

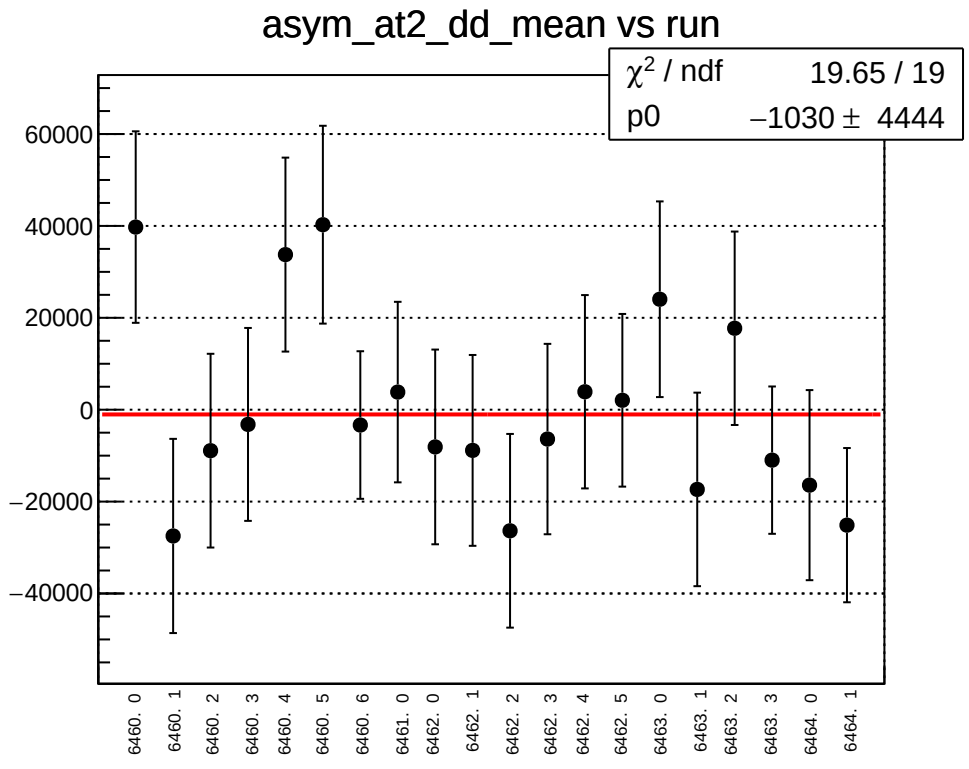

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 21.75 / 19
p0 −1627 ± 4013
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.039
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

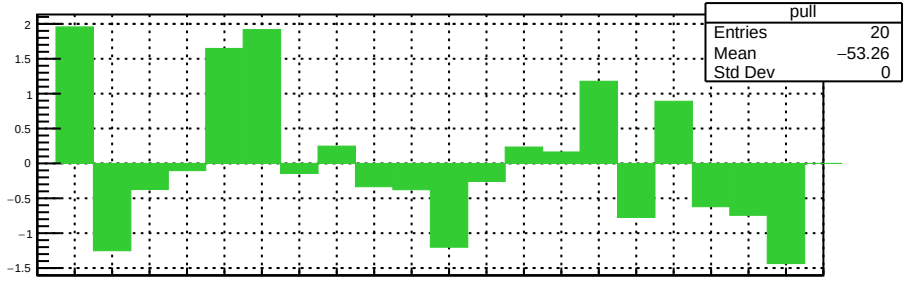

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 16.06 / 19
p0 1806 ± 2.838
1850
1840
1830
1820
1810
1800
1790
1780
1770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

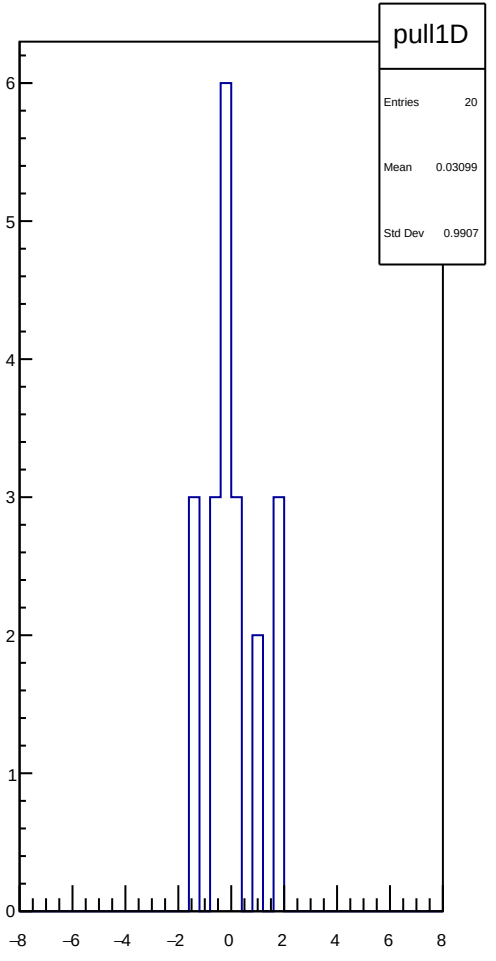

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 6.923 / 19
p0 −469.1± 1955
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −133.3
Std Dev 0
1
0.5
0
−0.5
−1

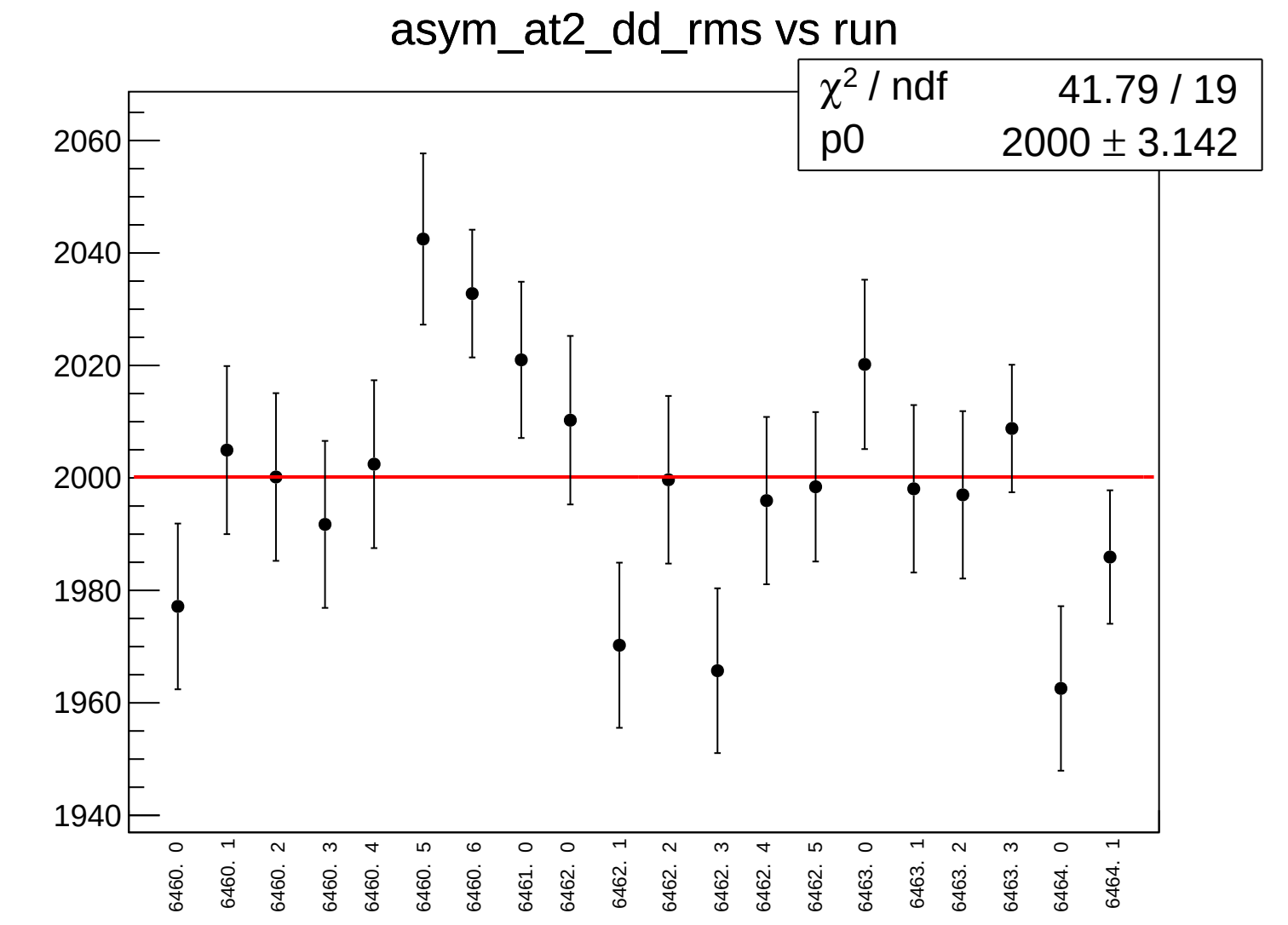

pull1D
Entries 20
Mean 0.002169
Std Dev 0.5883
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

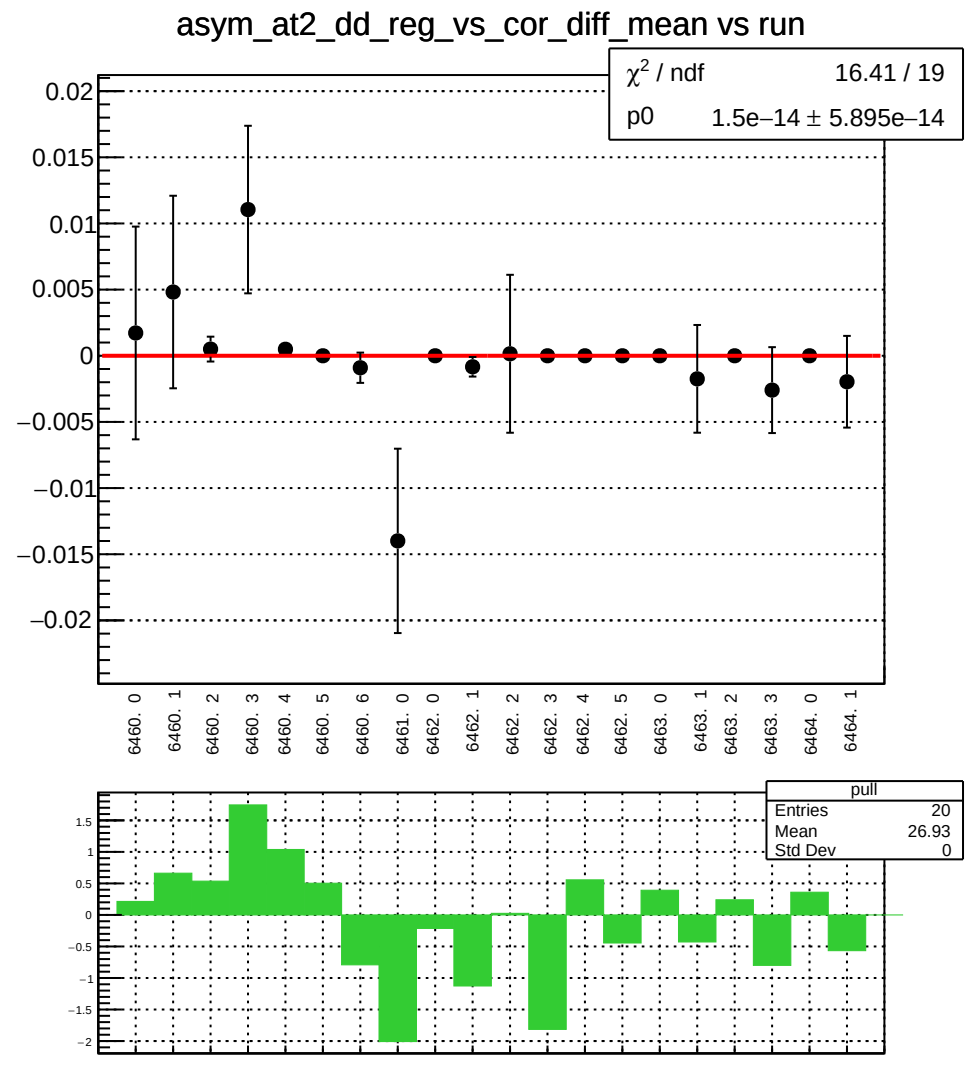

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 565.2 / 19
p0 879.6 ± 1.383
960
940
920
900
880
860
840
820
800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

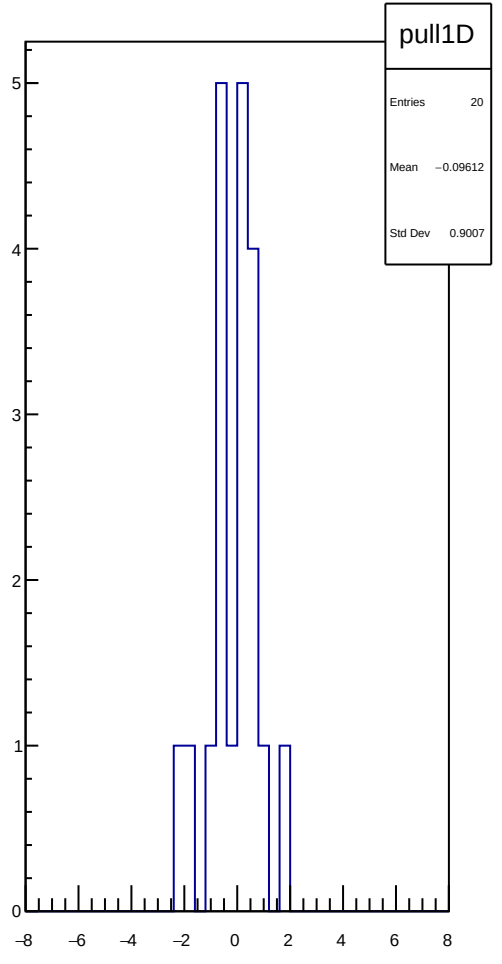

asym_at2_dd_mean vs run
χ² / ndf 19.65 / 19
p0 −1030 ± 4444
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

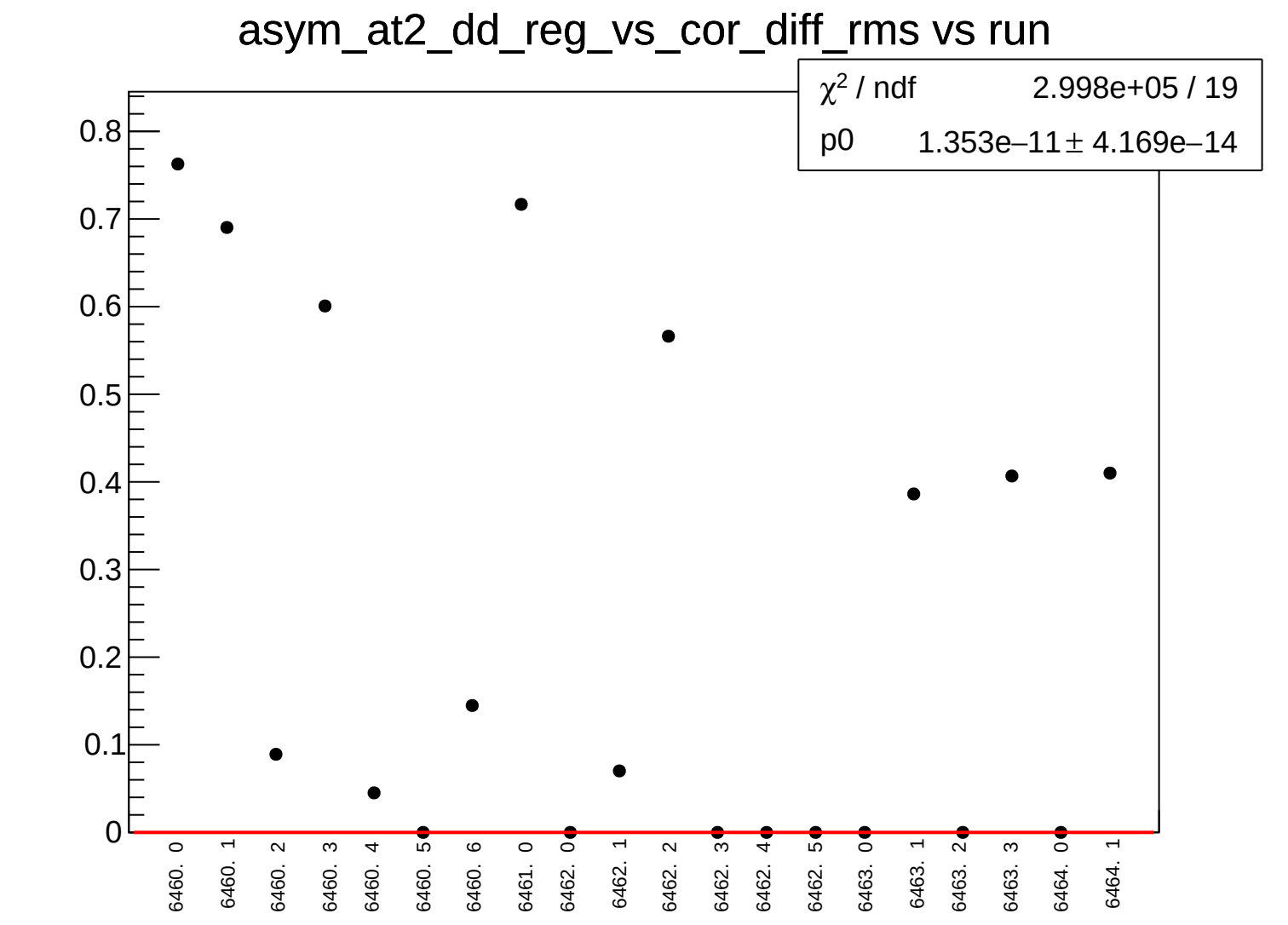

pull
Entries 20
Mean −53.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

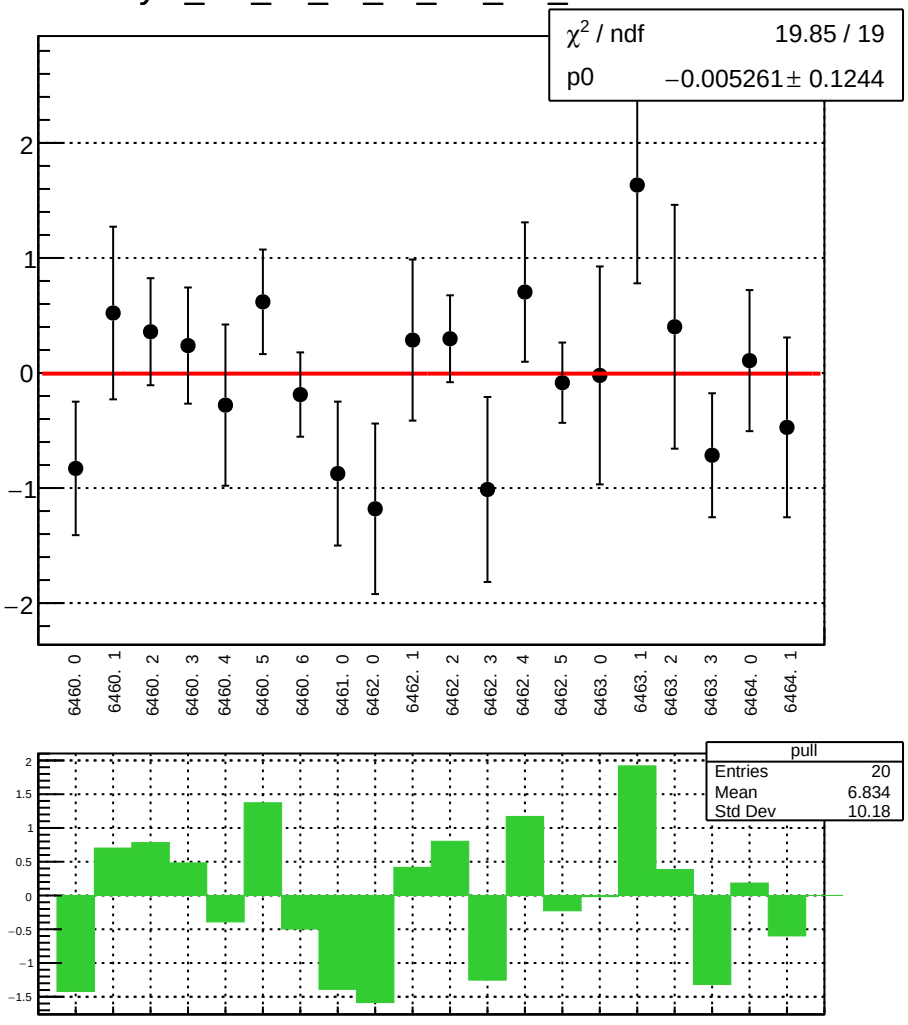

pull1D
Entries 20
Mean 0.03099
Std Dev 0.9907
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

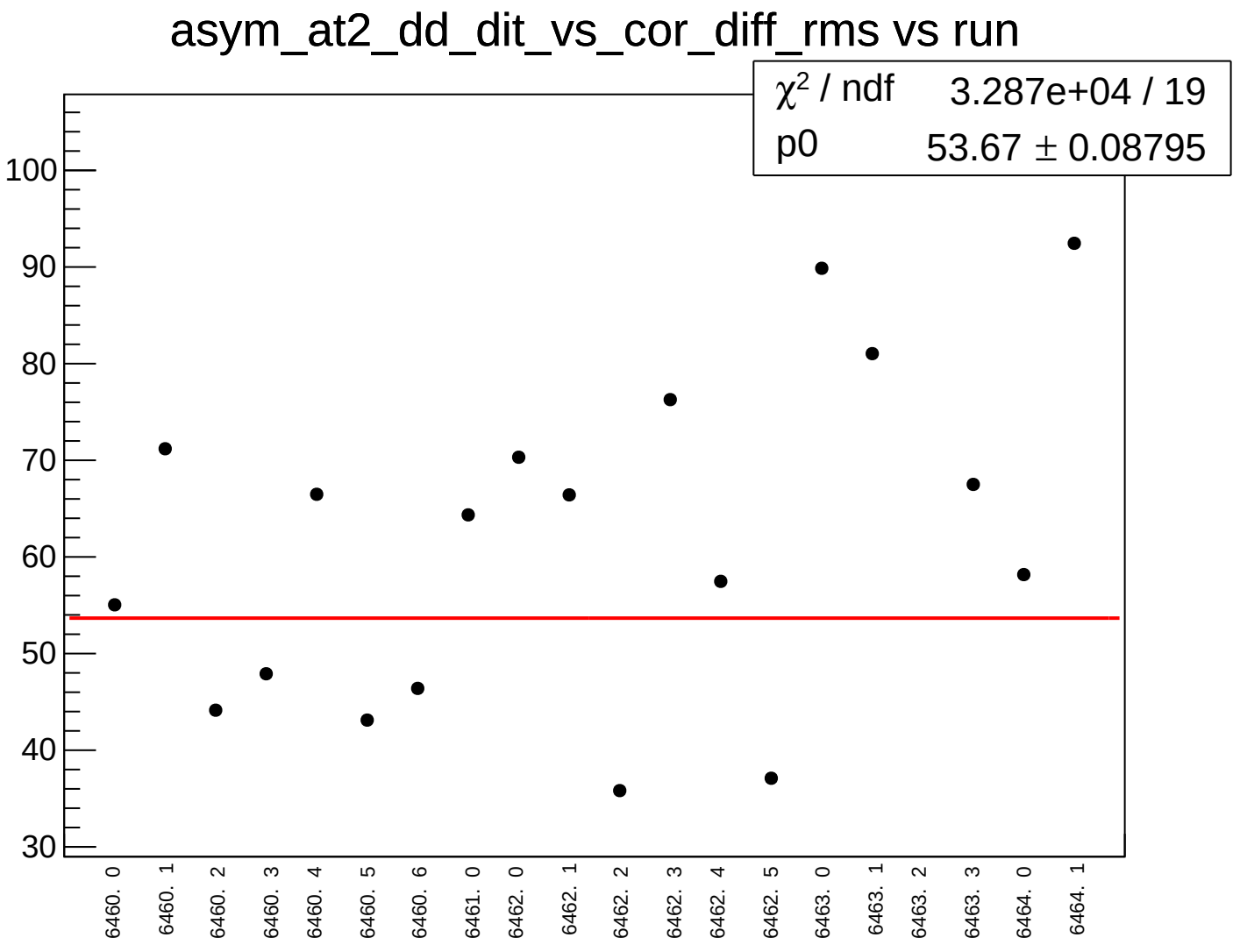

asym_at2_dd_rms vs run
χ^2 / ndf 41.79 / 19
p0 2000 ± 3.142
2060
2040
2020
2000
1980
1960
1940
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 16.41 / 19
p0 1.5e−14 ± 5.895e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.93
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

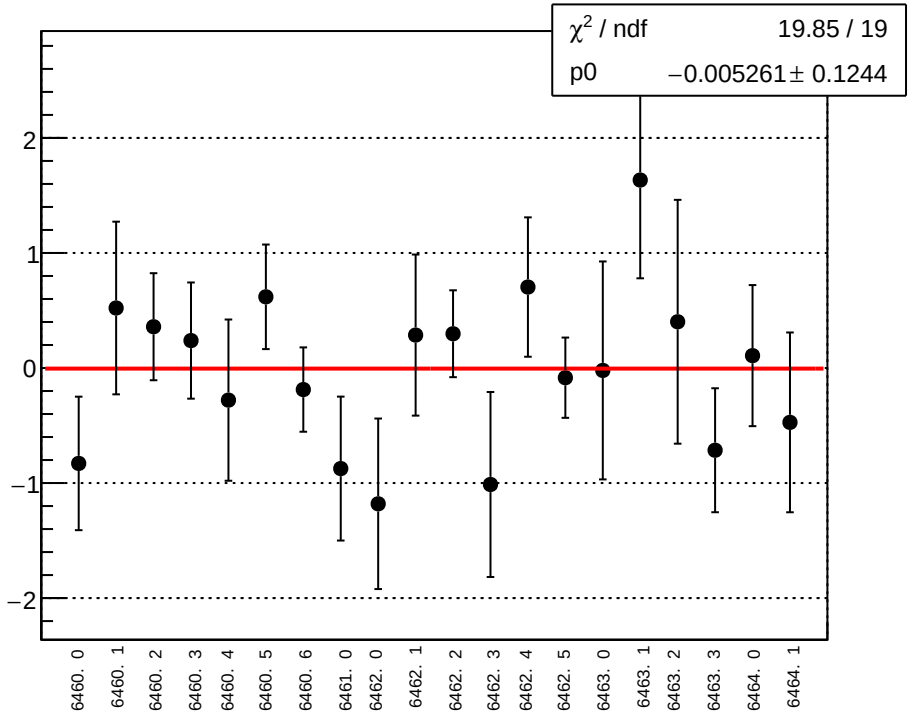

pull1D
Entries 20
Mean −0.09612
Std Dev 0.9007
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

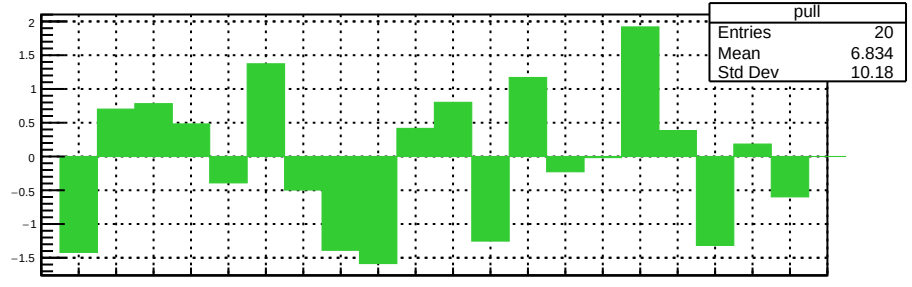

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.998e+05 / 19
p0 1.353e−11 ± 4.169e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

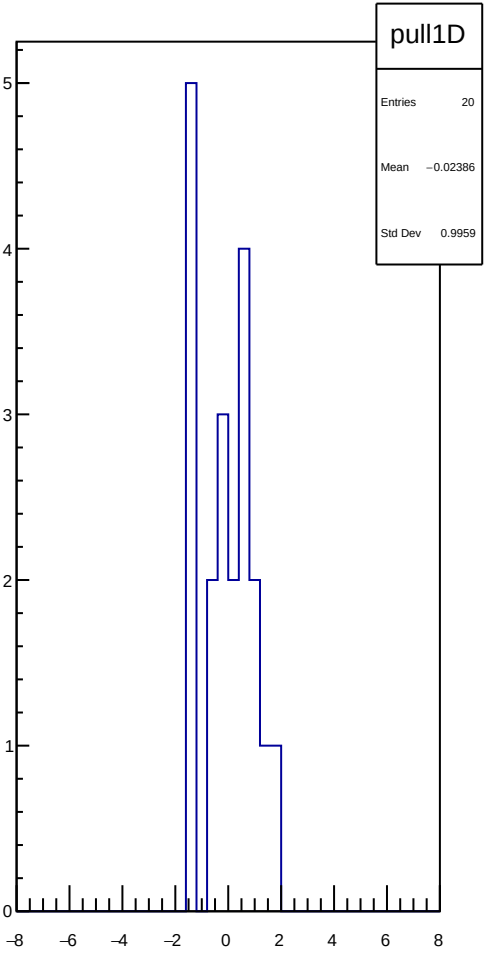

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 19.85 / 19
p0 −0.005261 ± 0.1244
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.834
Std Dev 10.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02386
Std Dev 0.9959
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

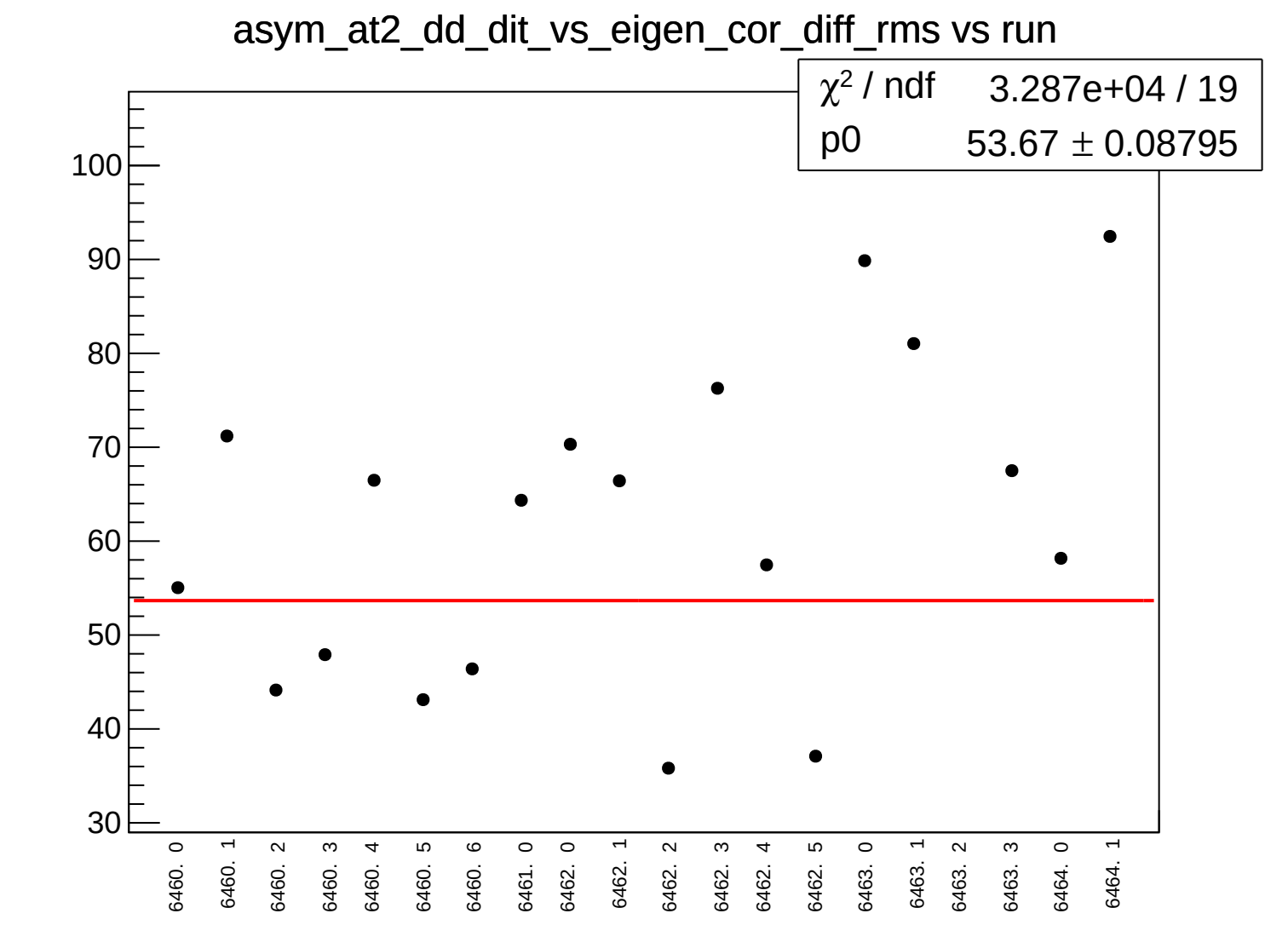

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.287e+04 / 19
p0 53.67 ± 0.08795
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

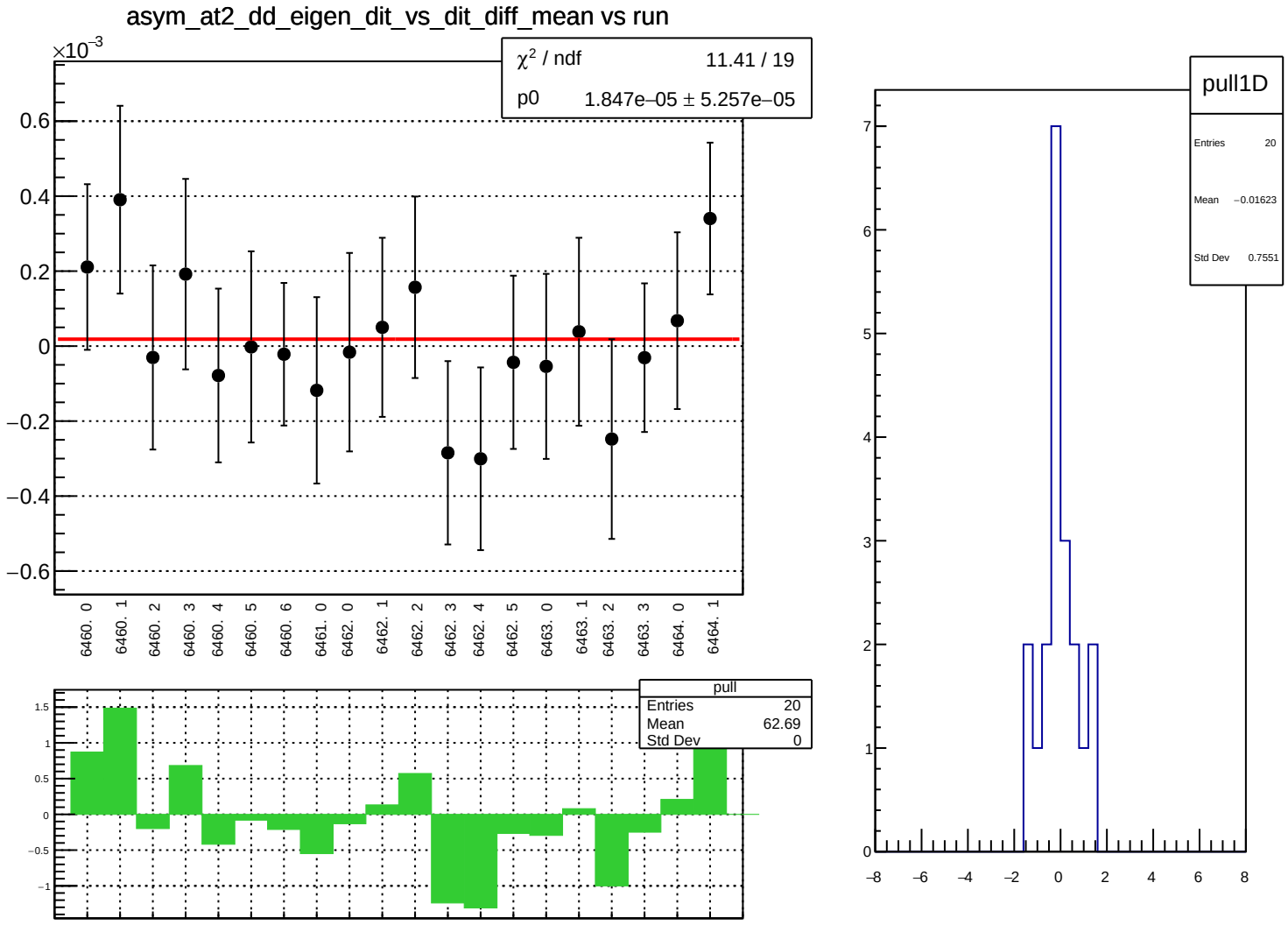
asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run

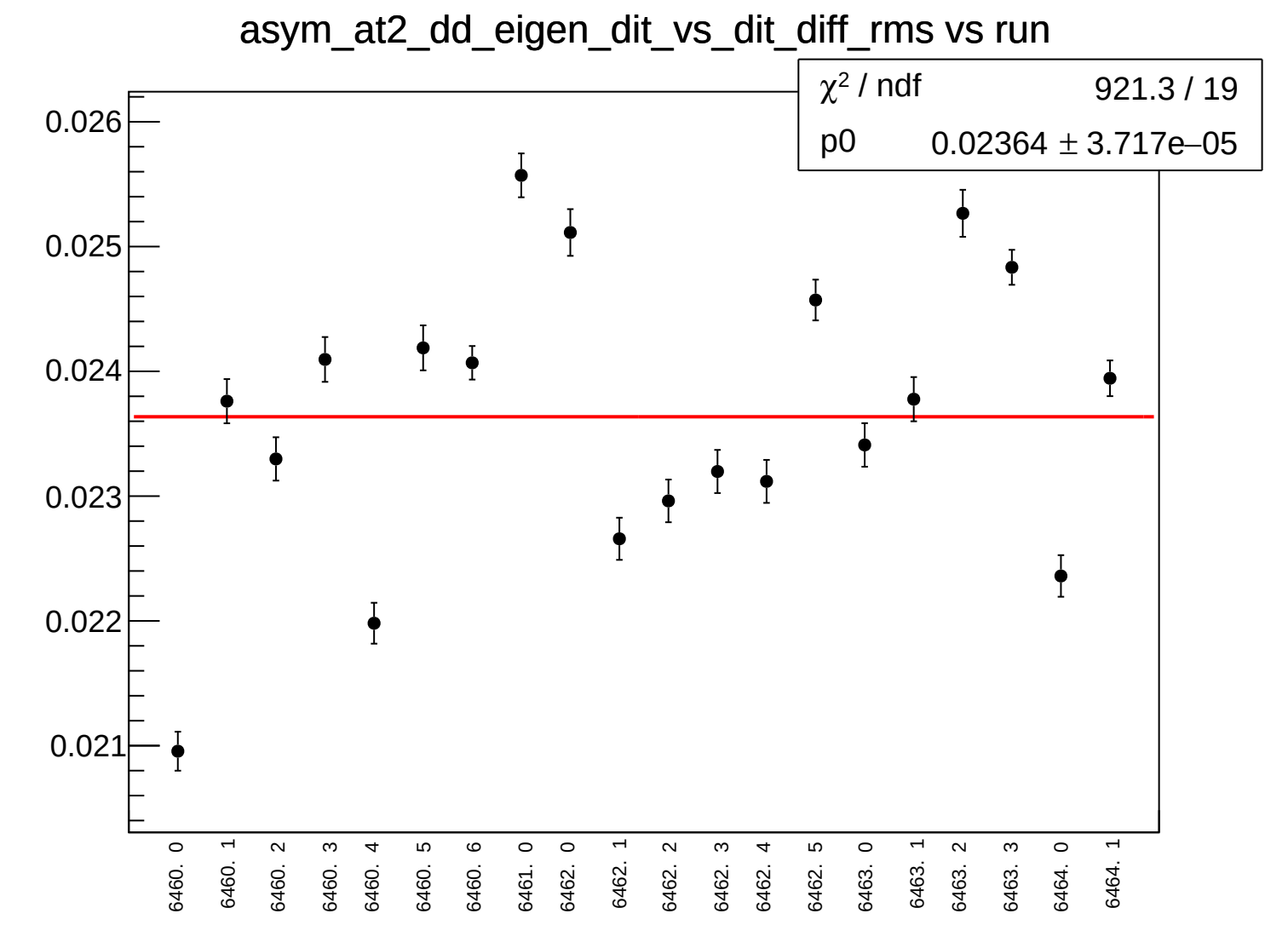




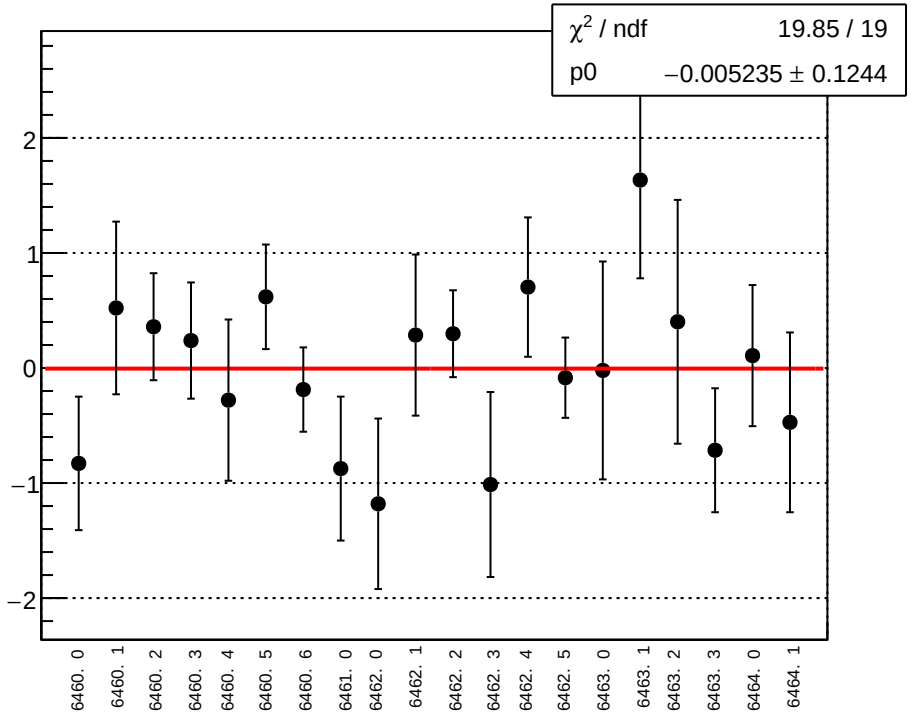


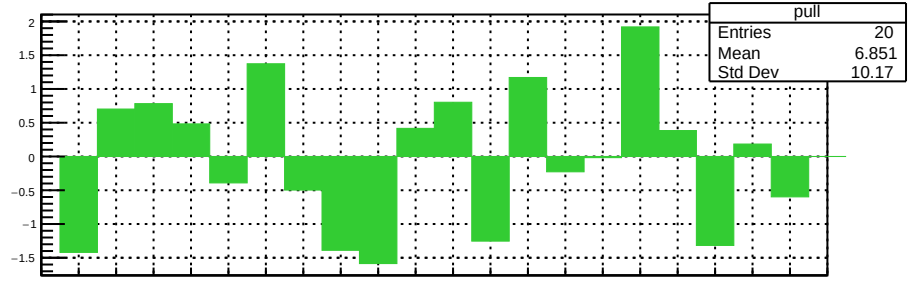

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.287e+04 / 19
p0 53.67 ± 0.08795
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

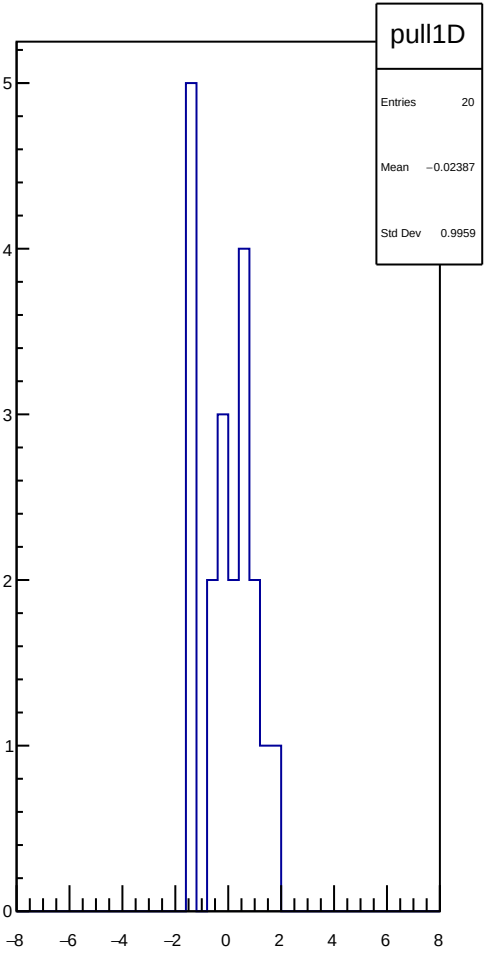

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 11.41 / 19
p0 1.847e−05 ± 5.257e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01623
Std Dev 0.7551
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

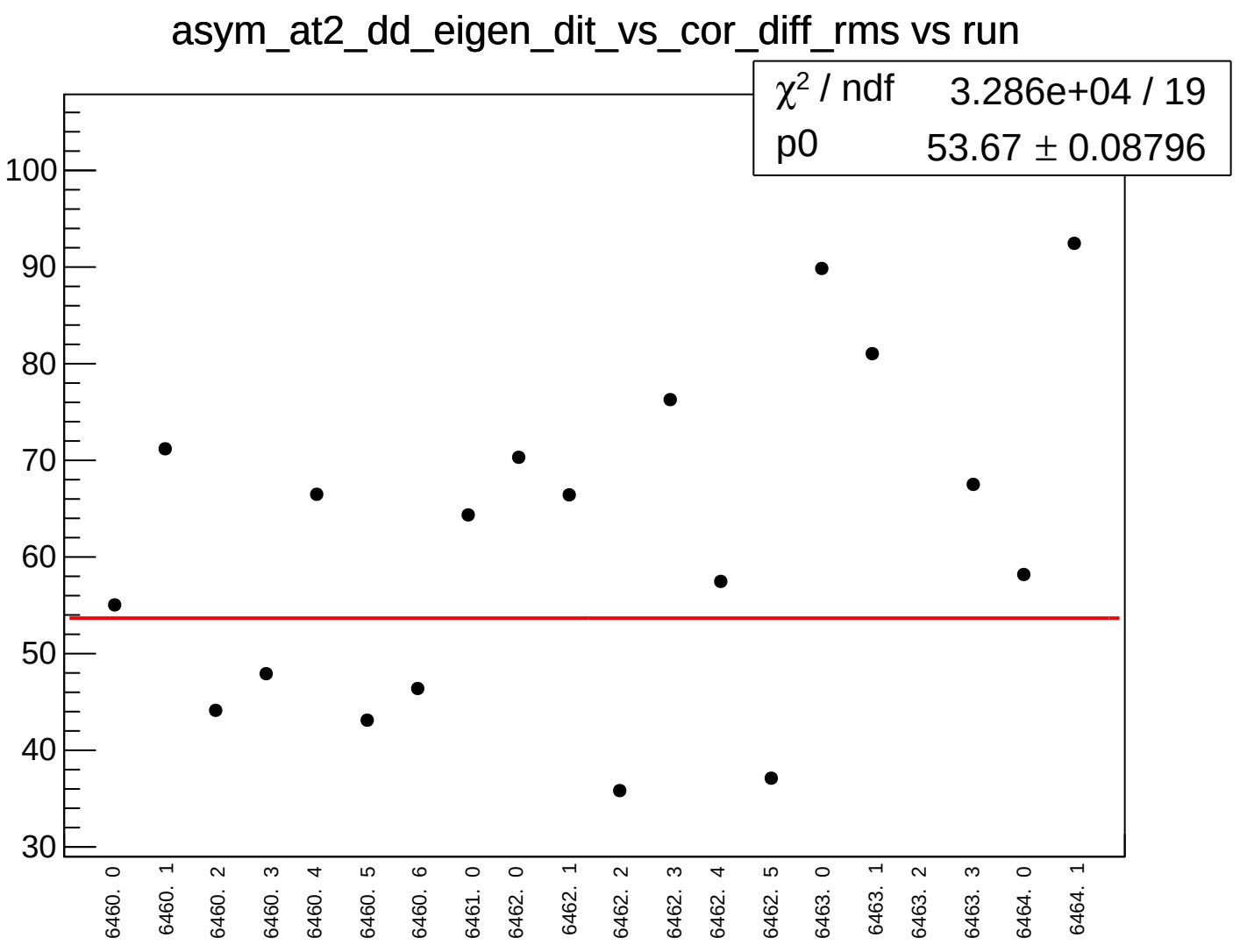

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 921.3 / 19
p0 0.02364 ± 3.717e–05
0.026
0.025
0.024
0.023
0.022
0.021
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

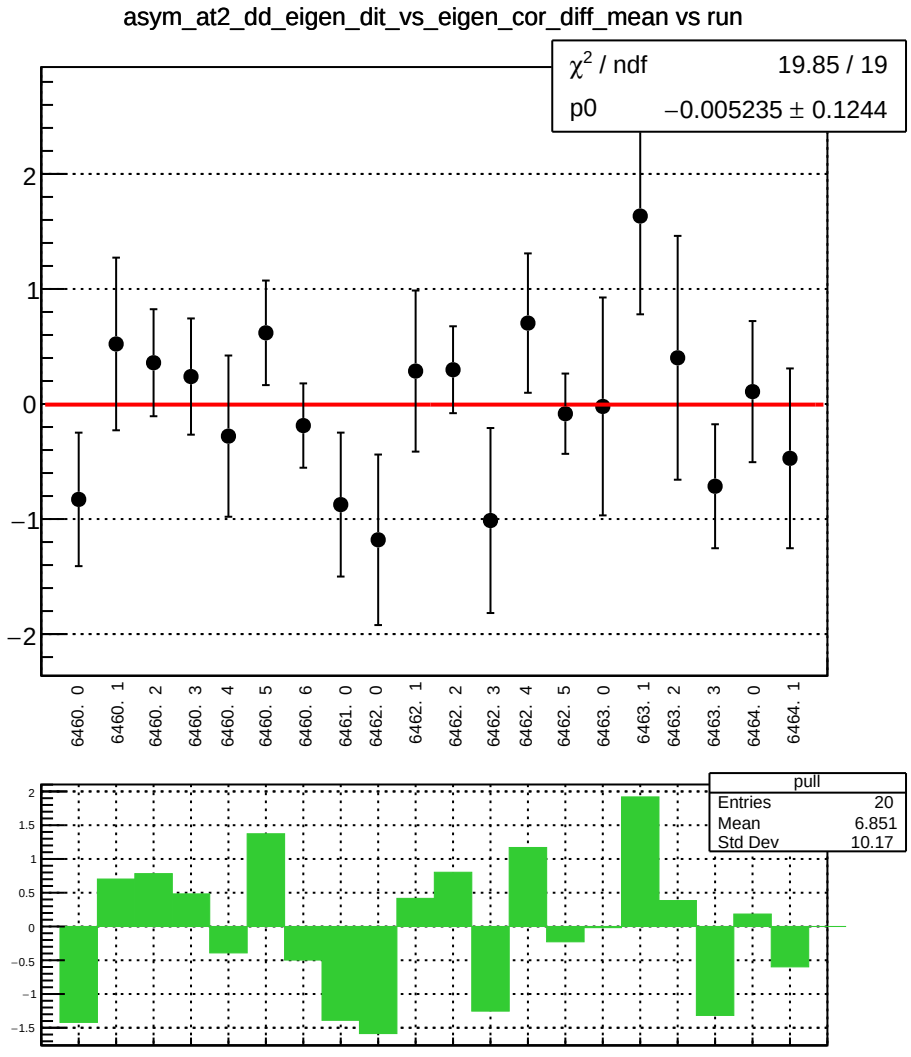
asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run

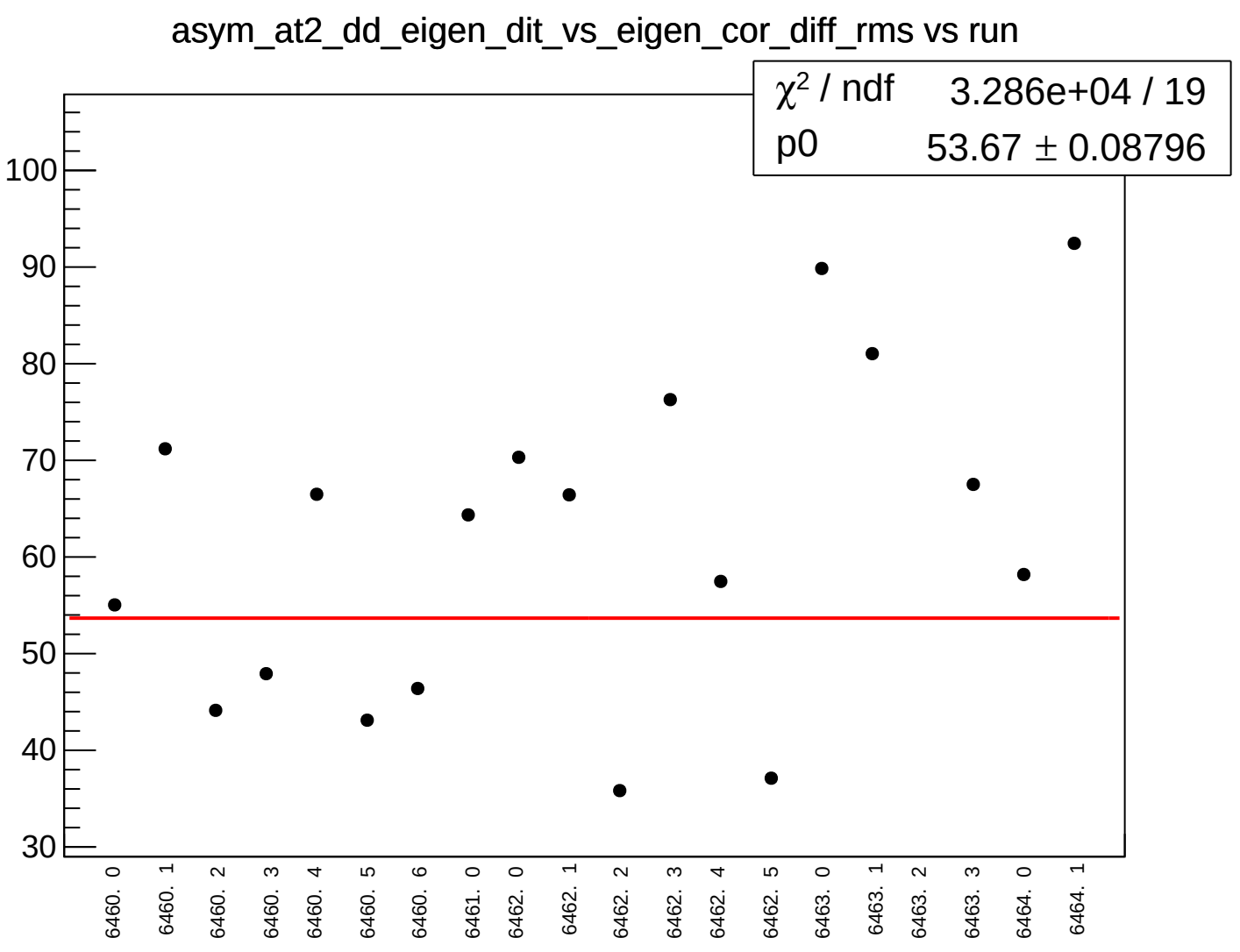


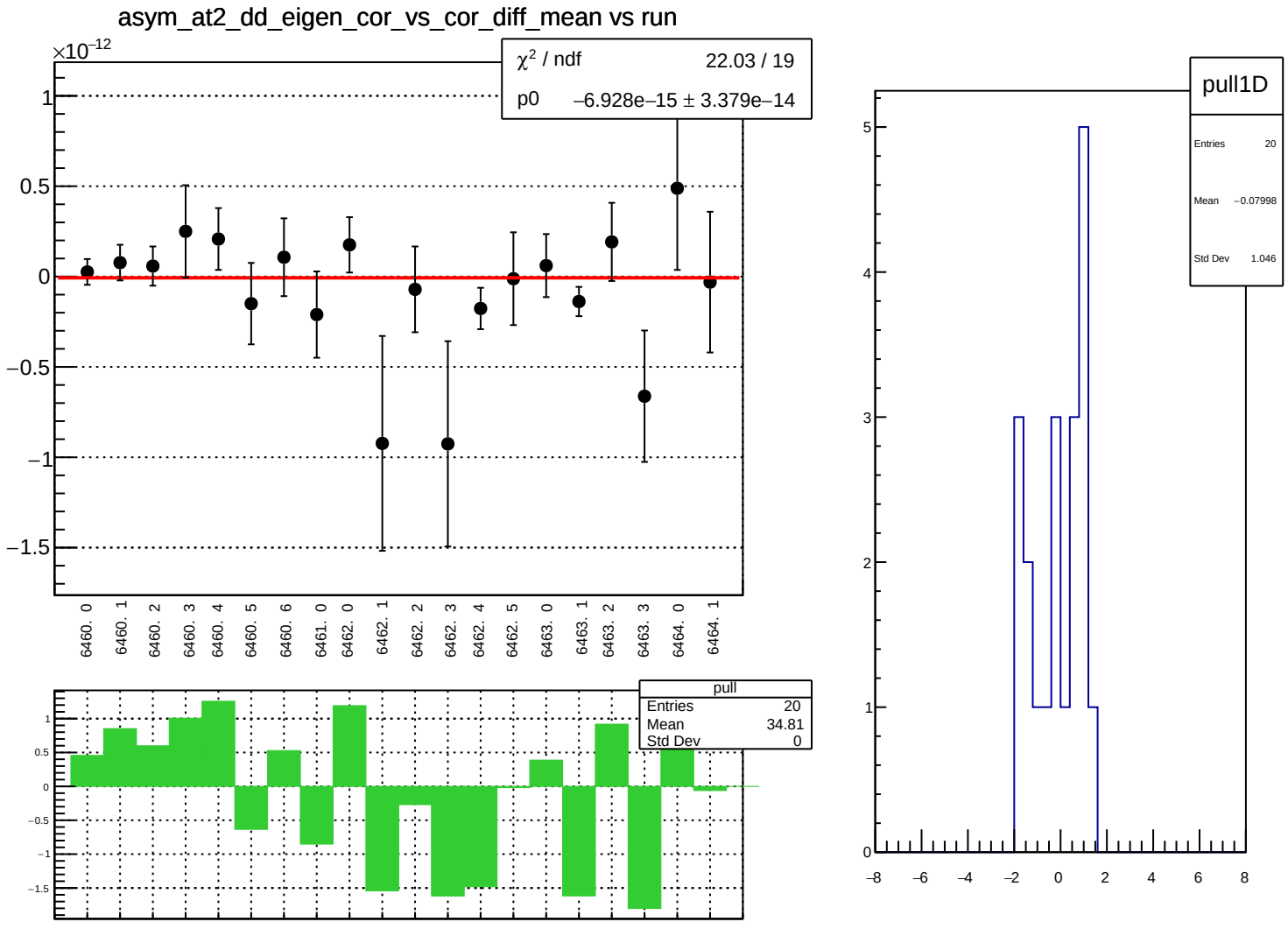


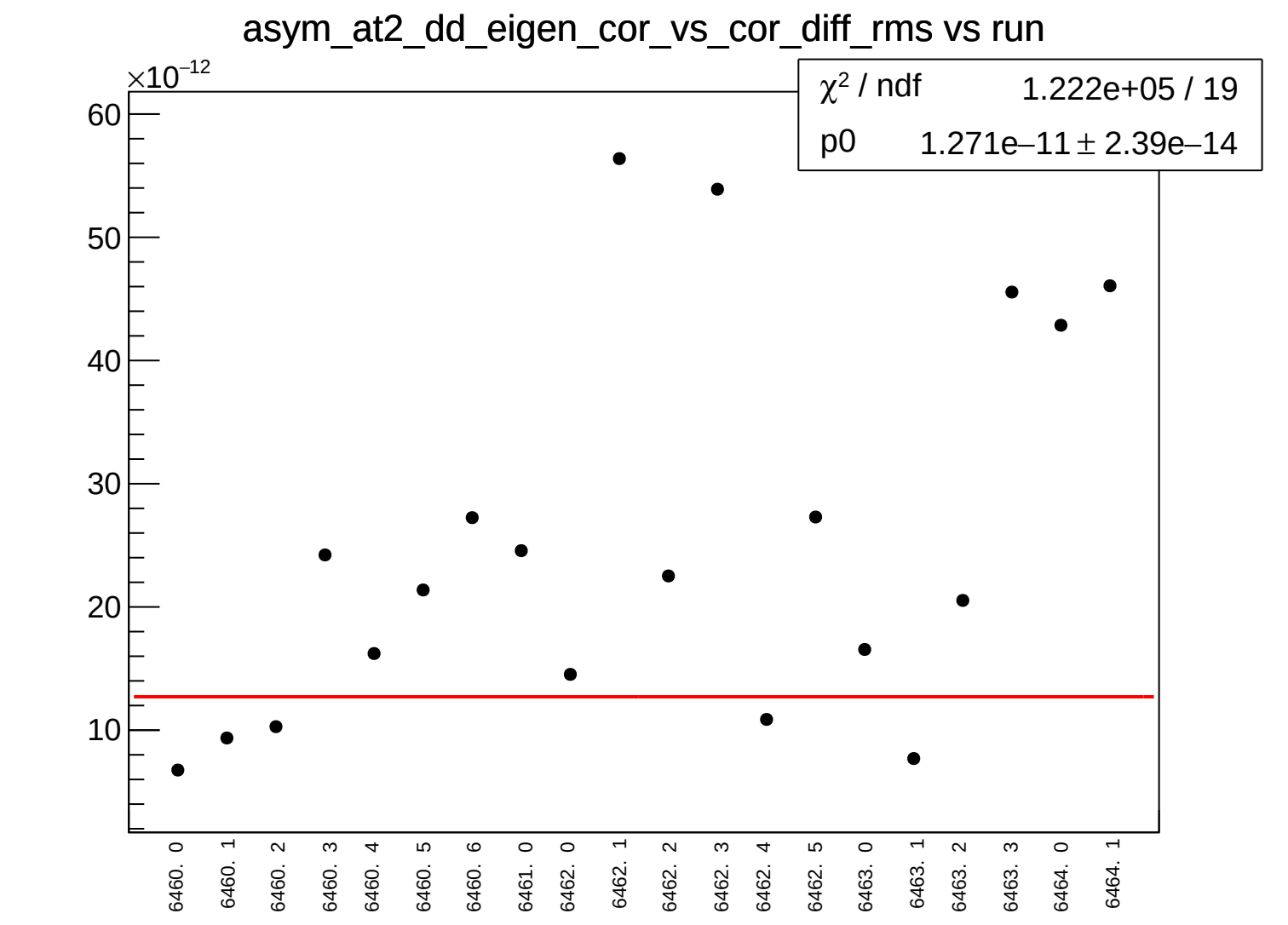


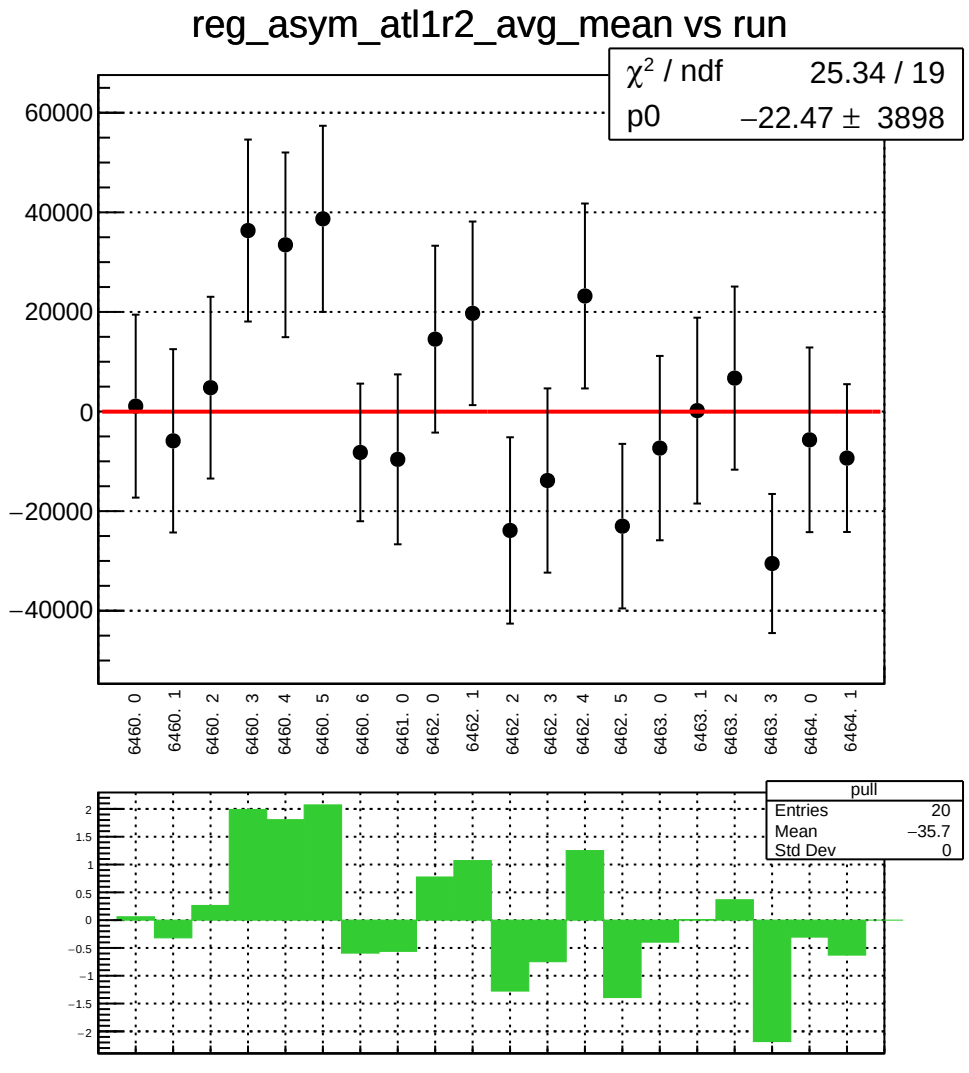

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.286e+04 / 19
p0 53.67 ± 0.08796
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

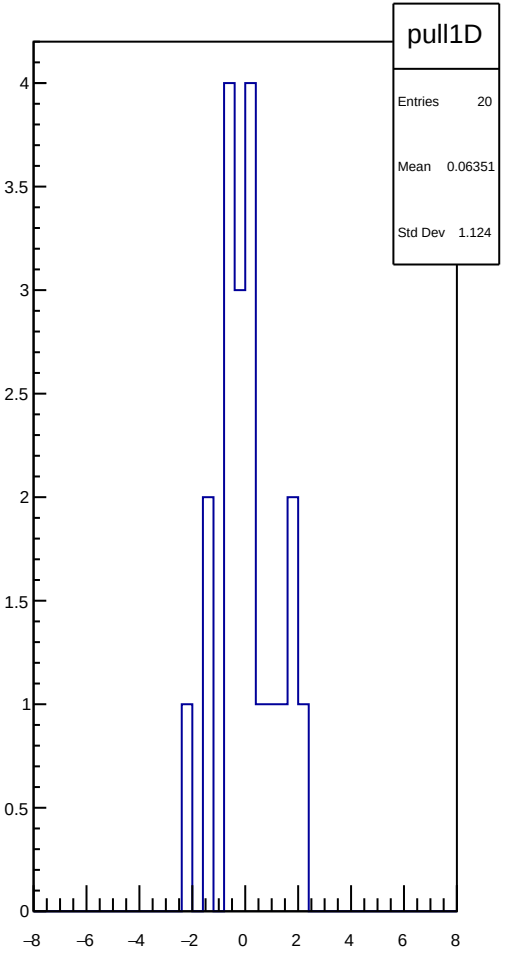

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.85 / 19
p0 −0.005235 ± 0.1244
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.851
Std Dev 10.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02387
Std Dev 0.9959
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

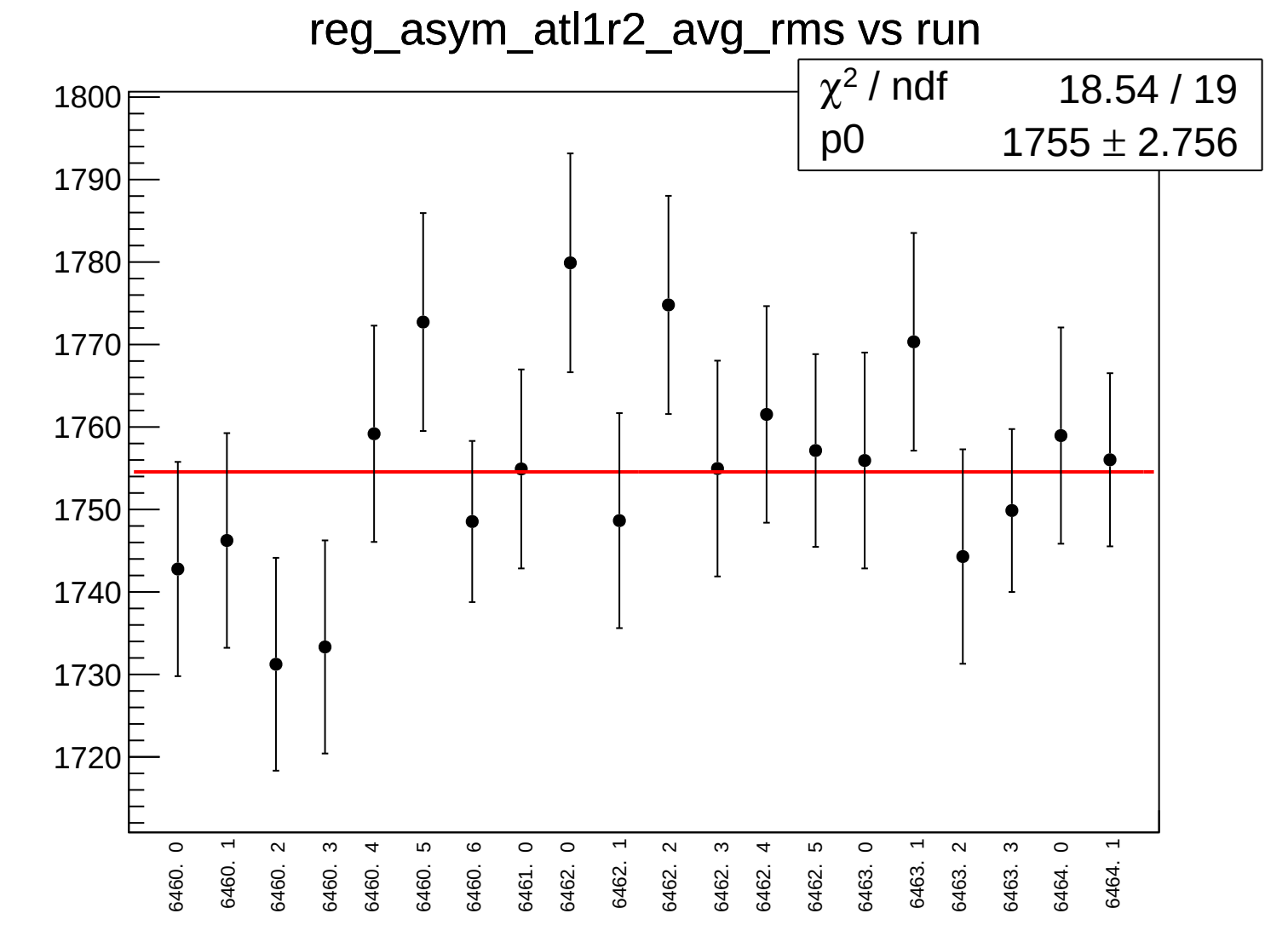

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.286e+04 / 19
p0 53.67 ± 0.08796
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

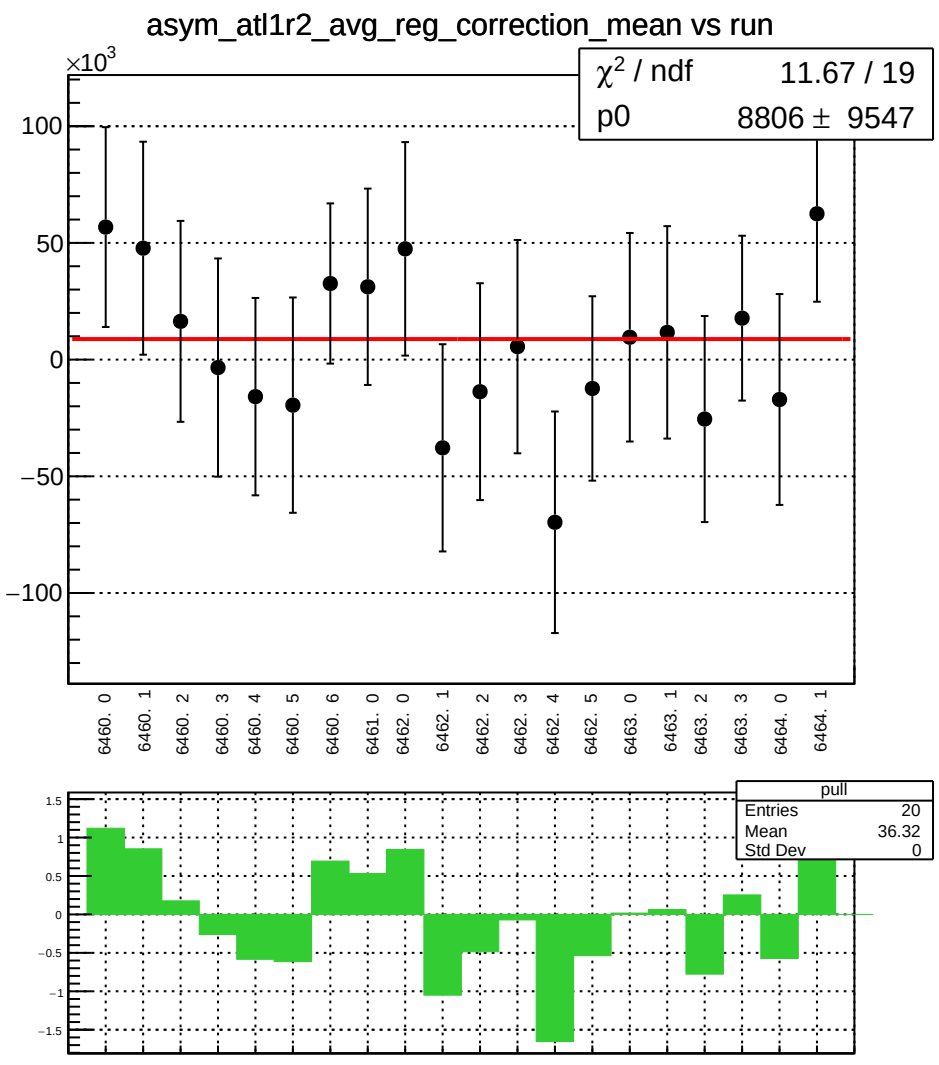

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.03 / 19
p0 −6.928e−15 ± 3.379e−14
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.81
Std Dev 0
pull1D
Entries 20
Mean −0.07998
Std Dev 1.046
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

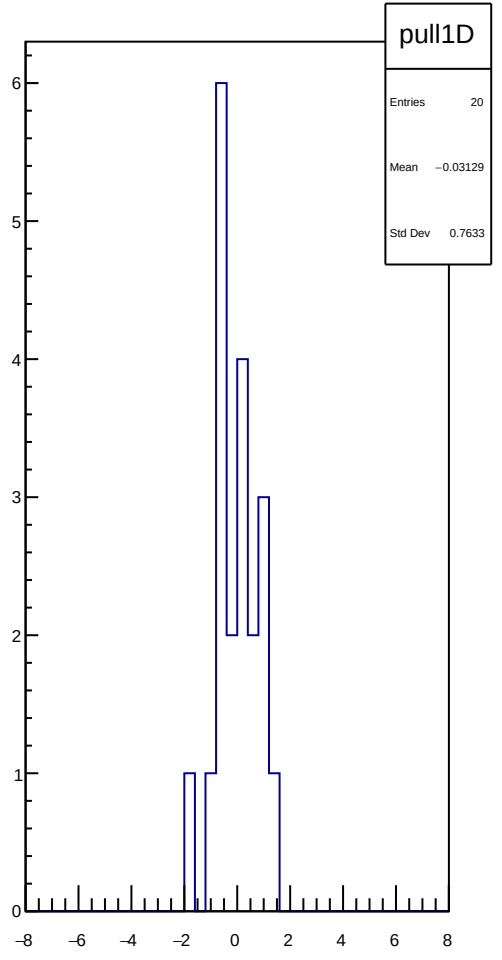

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.222e+05 / 19
p0 1.271e−11 ± 2.39e−14
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

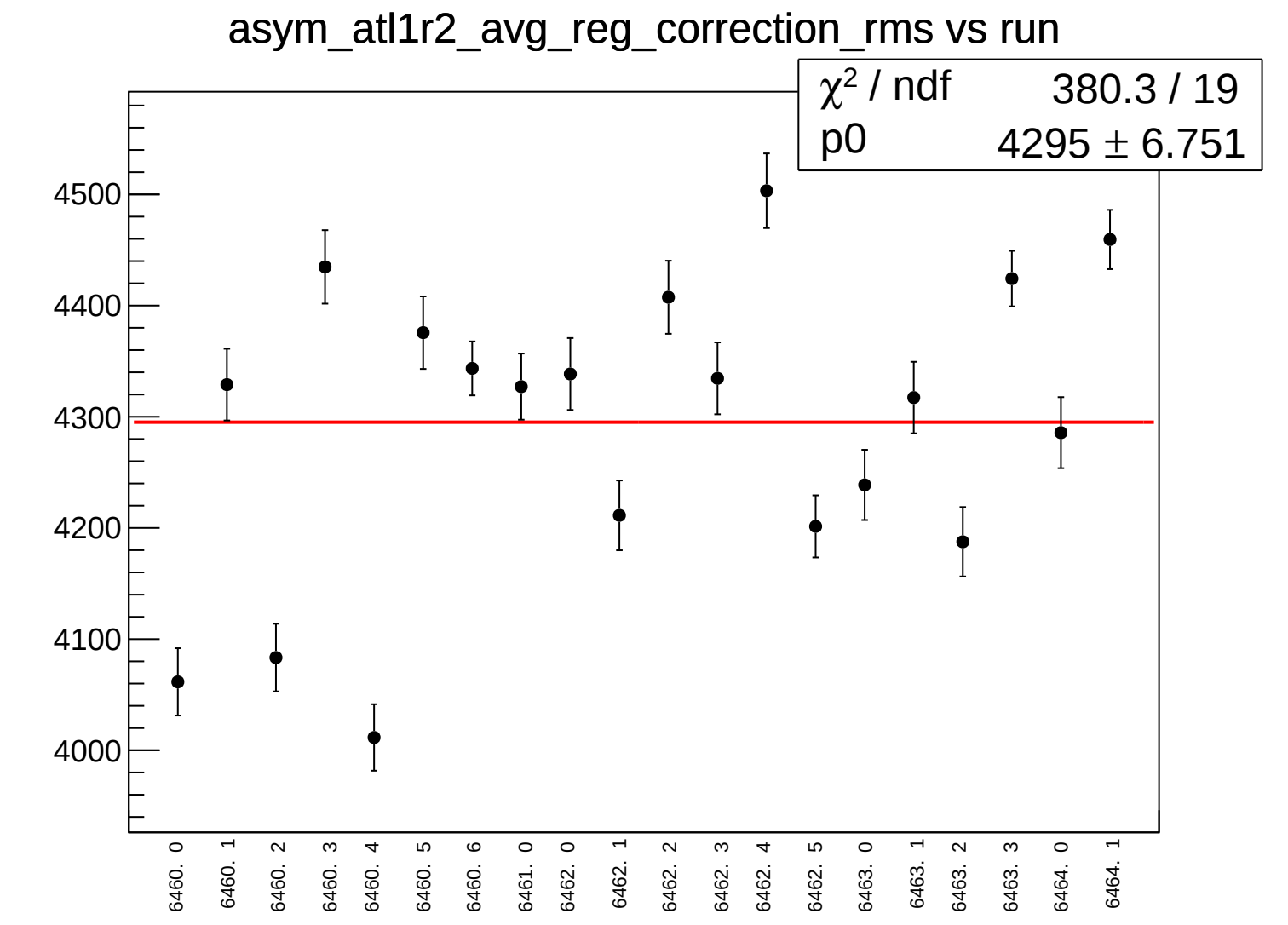

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 25.34 / 19
p0 −22.47 ± 3898
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −35.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

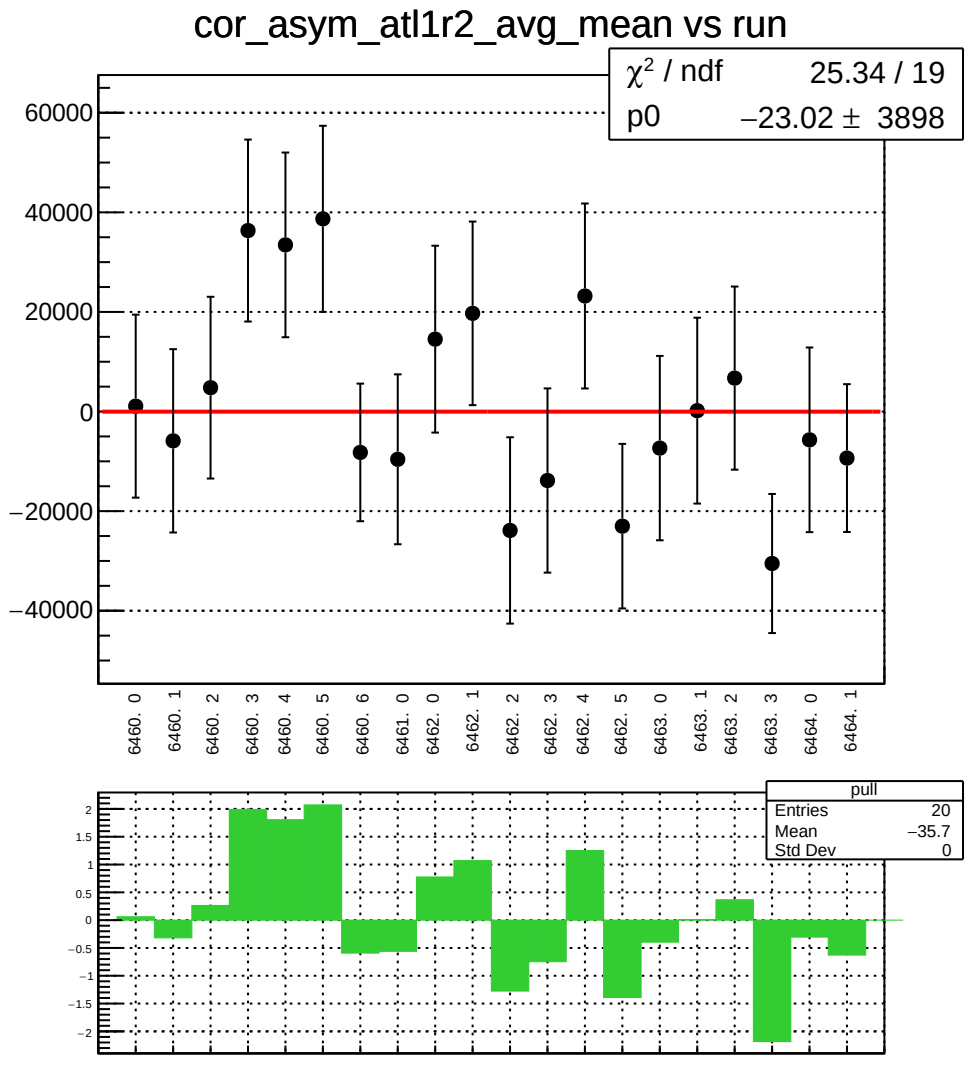

pull1D
Entries 20
Mean 0.06351
Std Dev 1.124
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

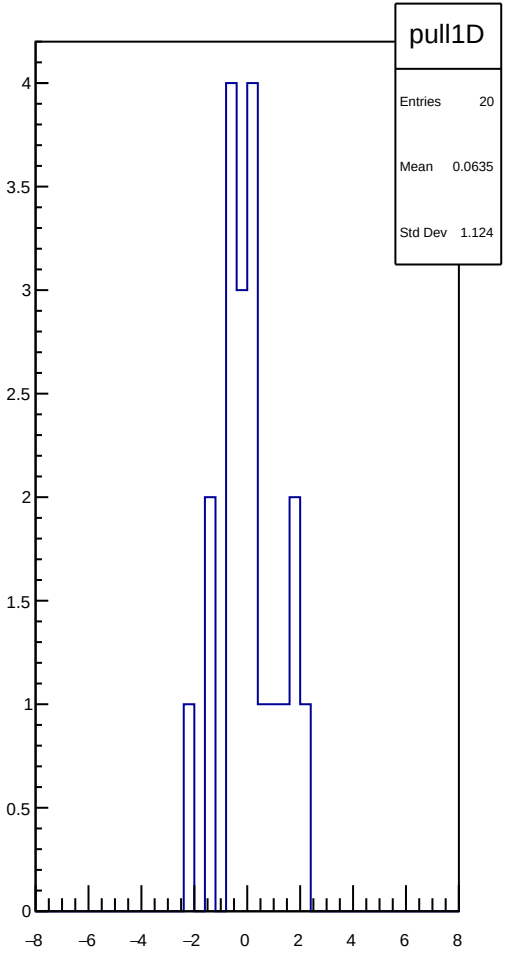

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 18.54 / 19
p0 1755 ± 2.756
1800
1790
1780
1770
1760
1750
1740
1730
1720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

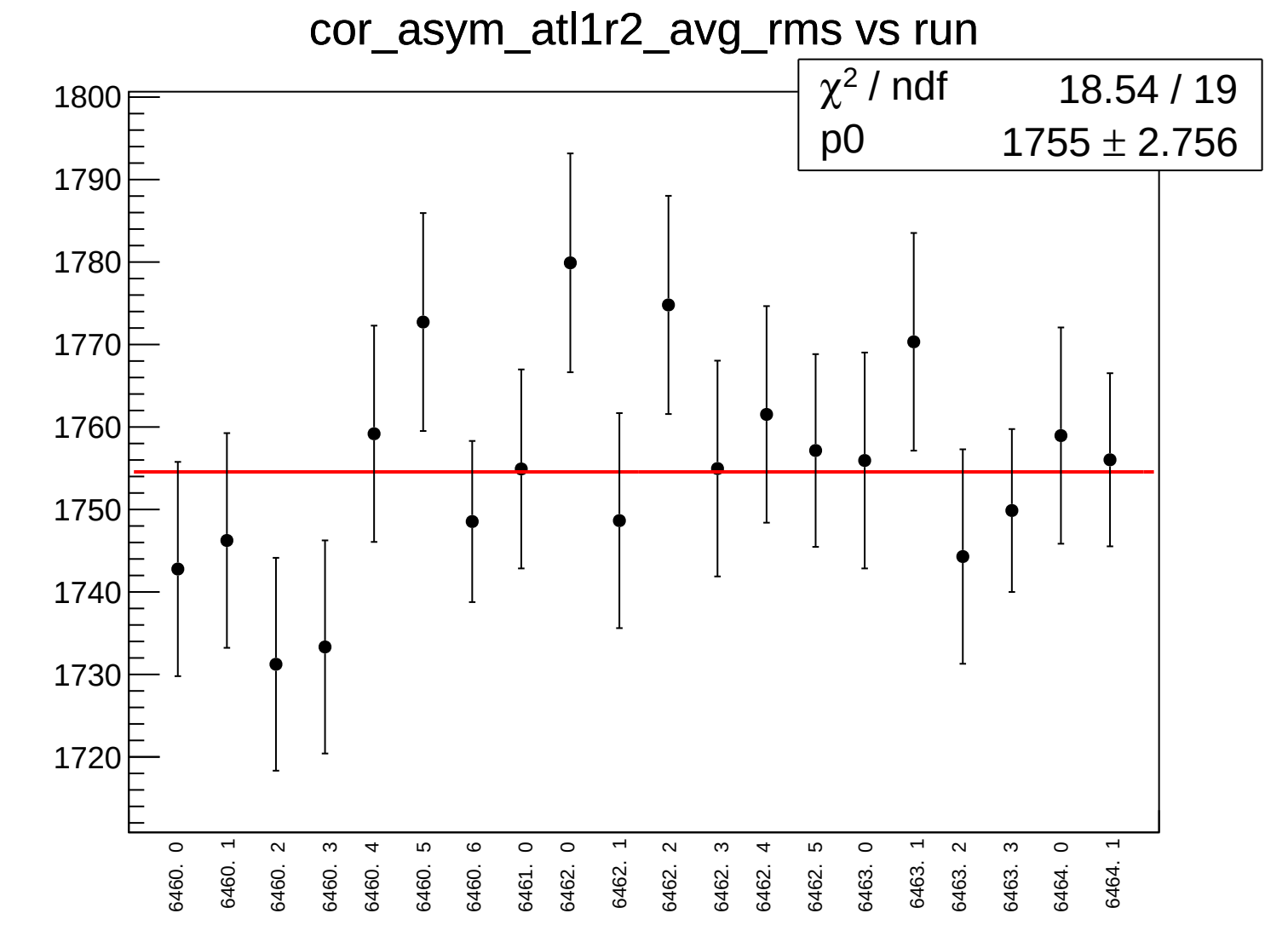

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 11.67 / 19
p0 8806 ± 9547
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

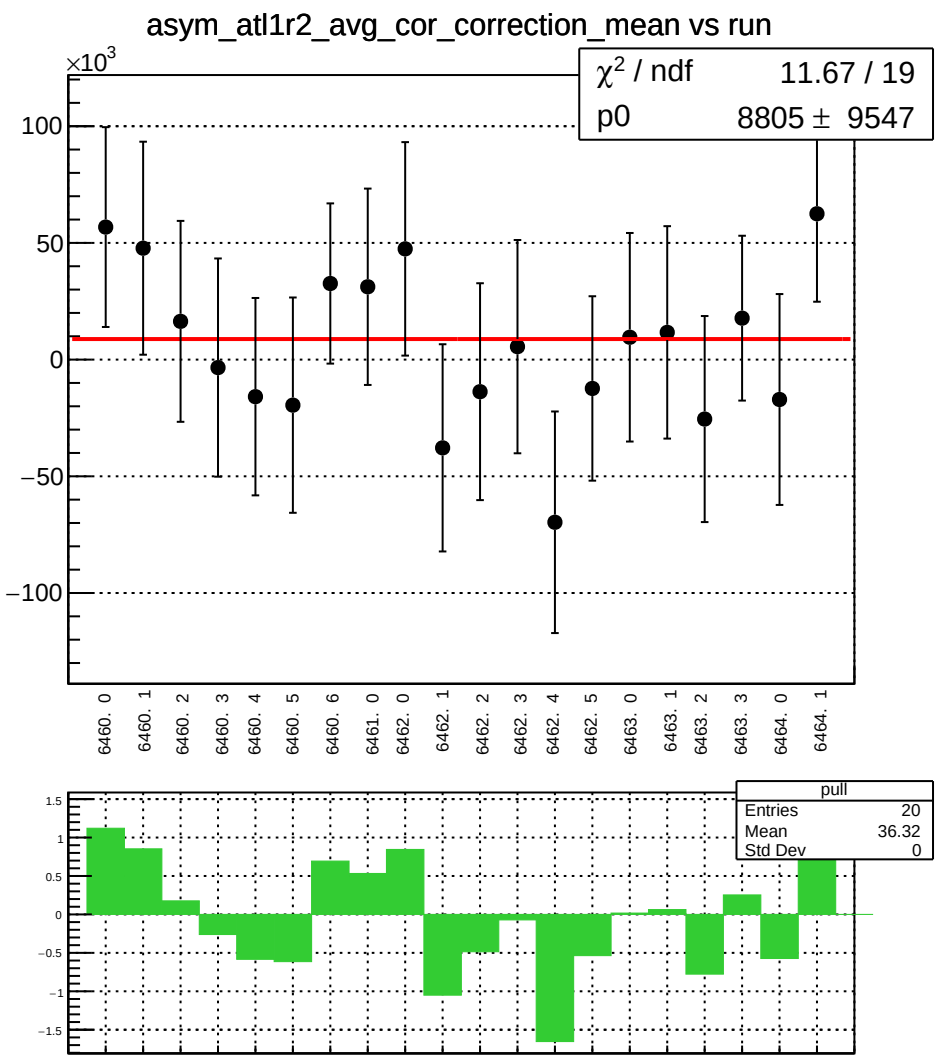

pull1D
Entries 20
Mean −0.03129
Std Dev 0.7633
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

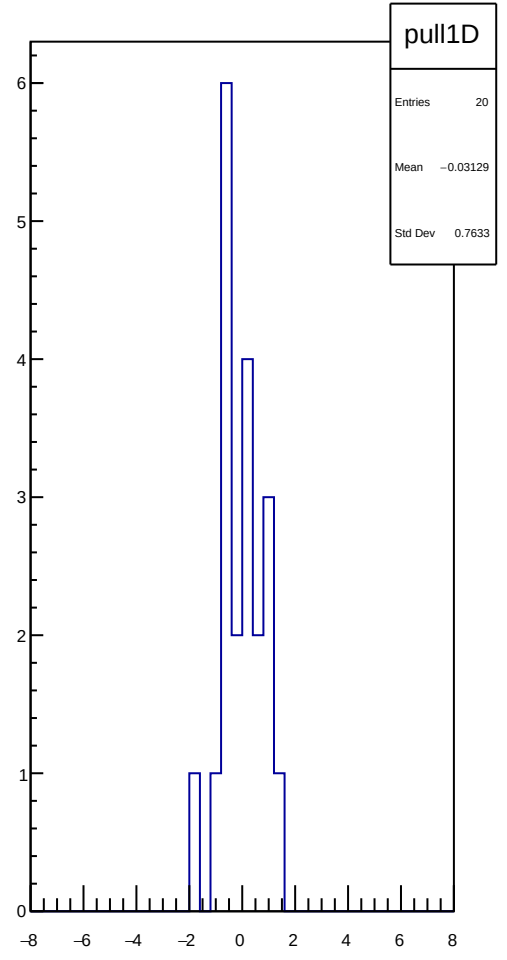

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 380.3 / 19
p0 4295 ± 6.751
4500
4400
4300
4200
4100
4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

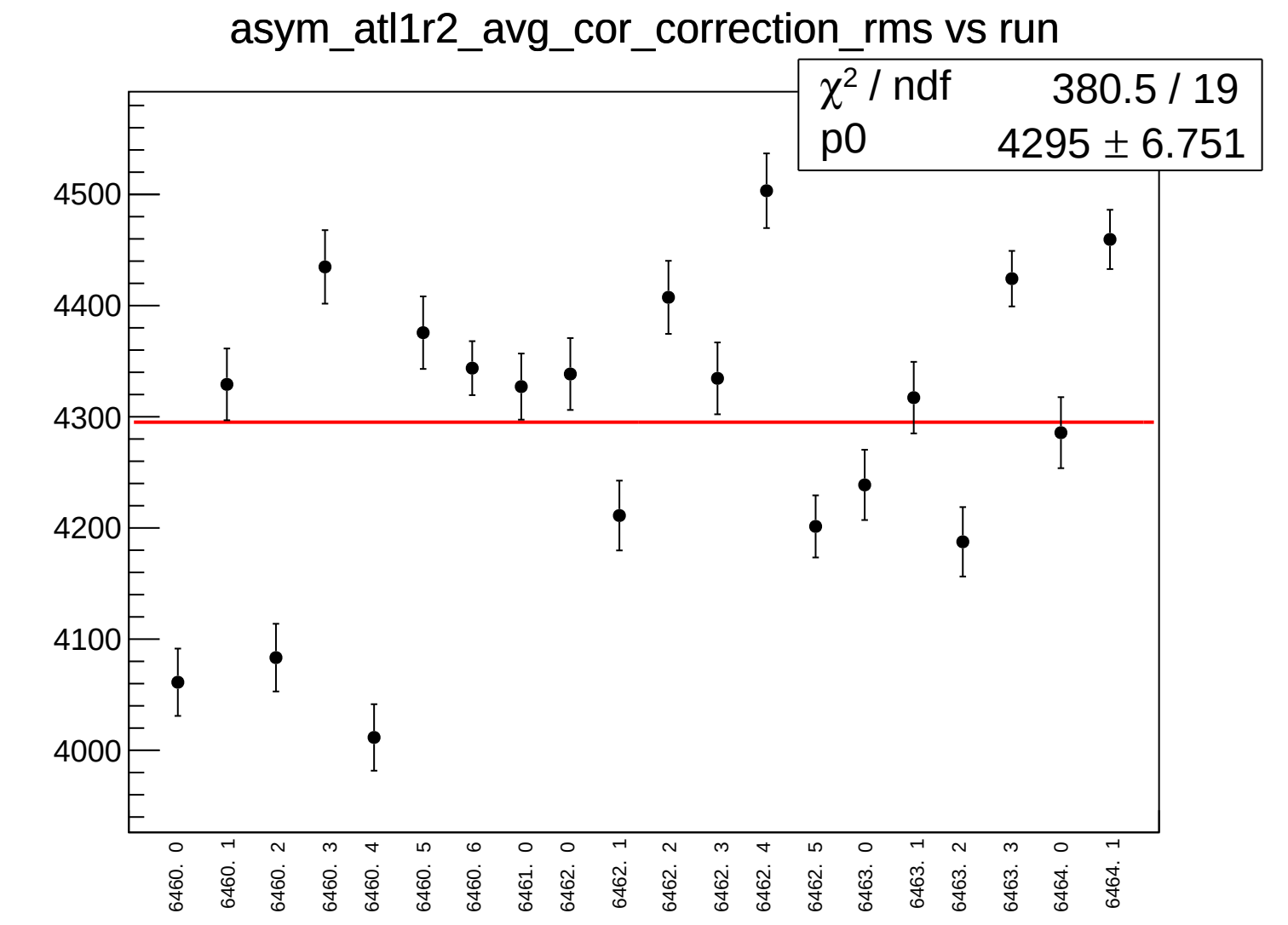

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 25.34 / 19
p0 −23.02 ± 3898
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −35.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

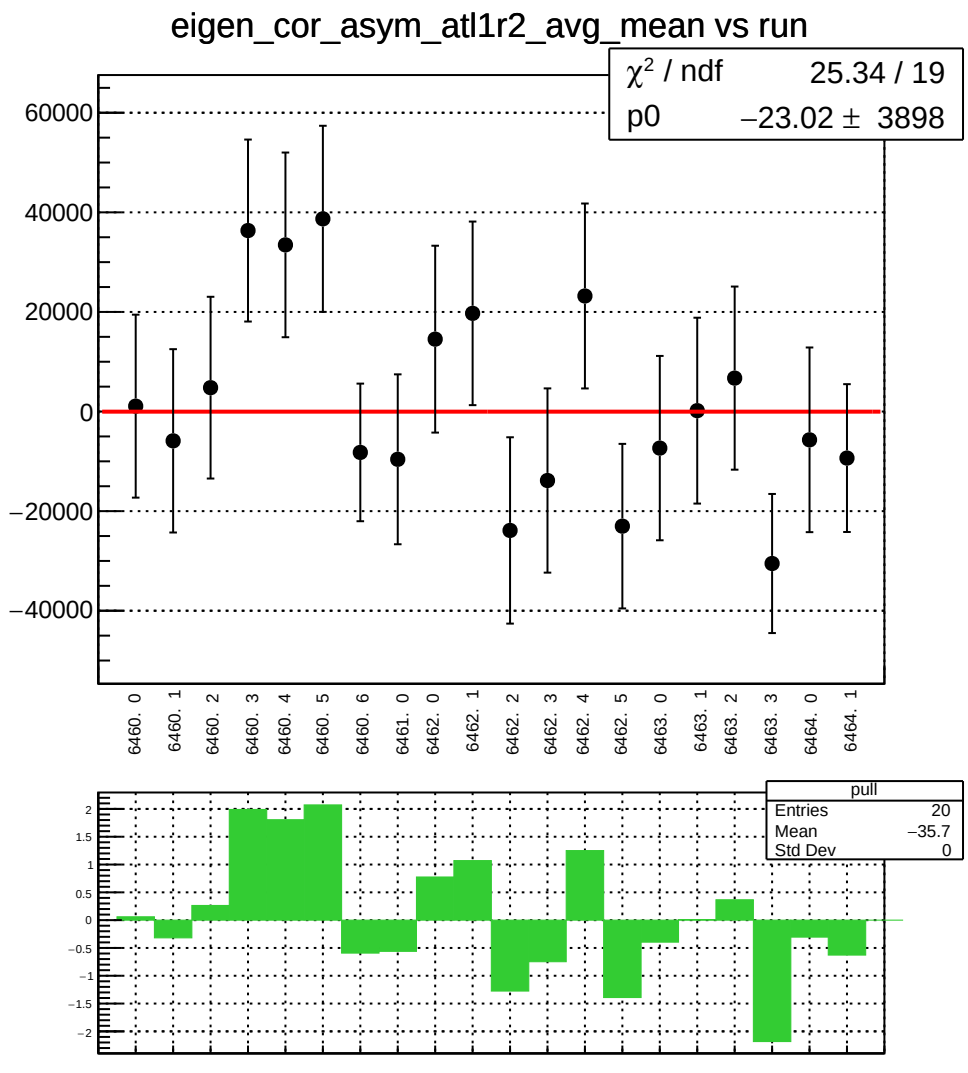

pull1D
Entries 20
Mean 0.0635
Std Dev 1.124
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

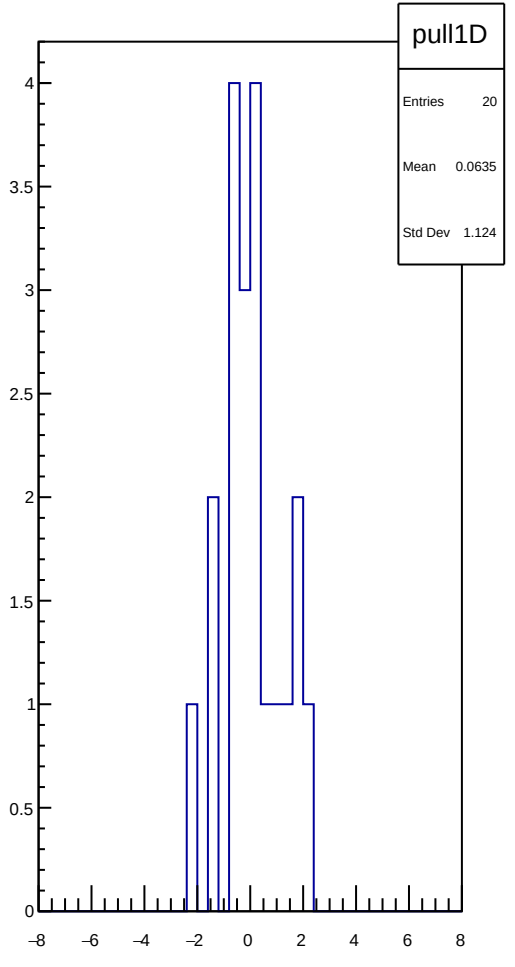

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 18.54 / 19
p0 1755 ± 2.756
1800
1790
1780
1770
1760
1750
1740
1730
1720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

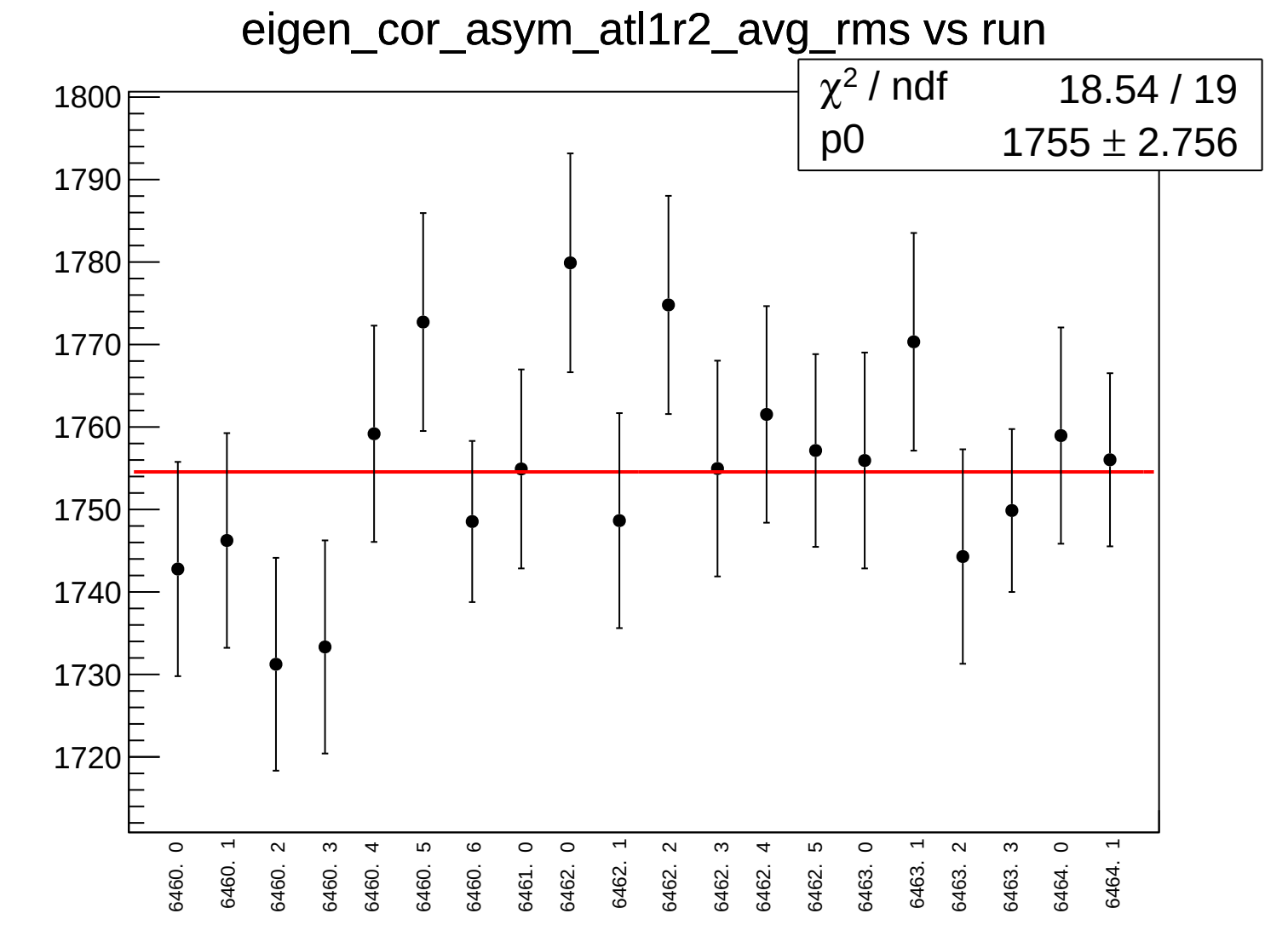

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 11.67 / 19
p0 8805 ± 9547
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

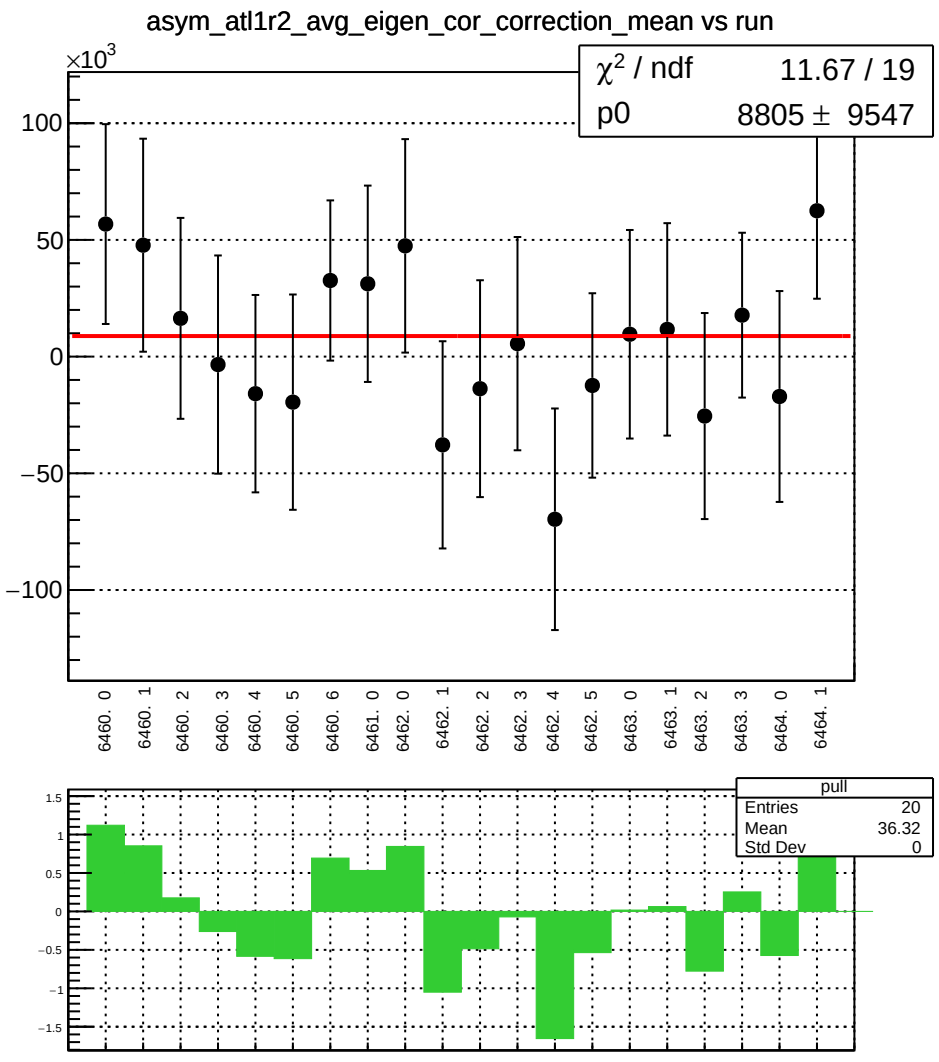

pull1D
Entries 20
Mean −0.03129
Std Dev 0.7633
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

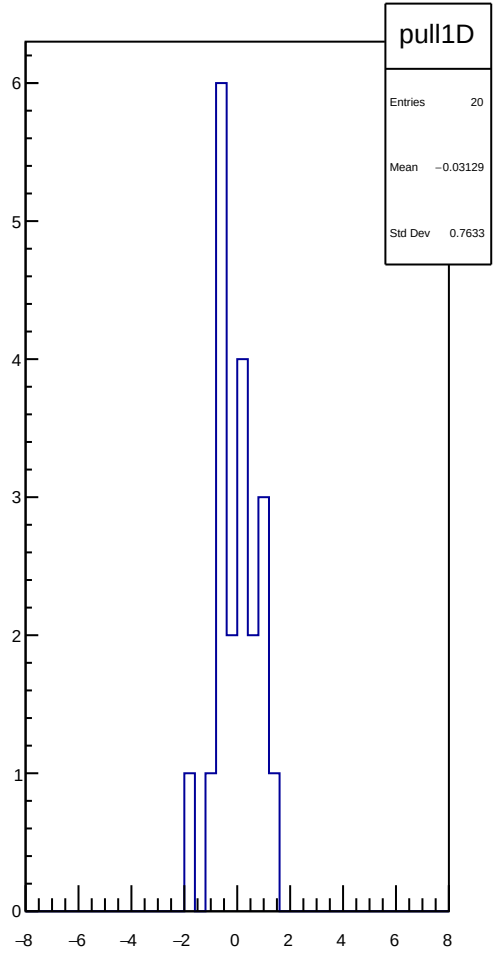

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 380.5 / 19
p0 4295 ± 6.751
4500
4400
4300
4200
4100
4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

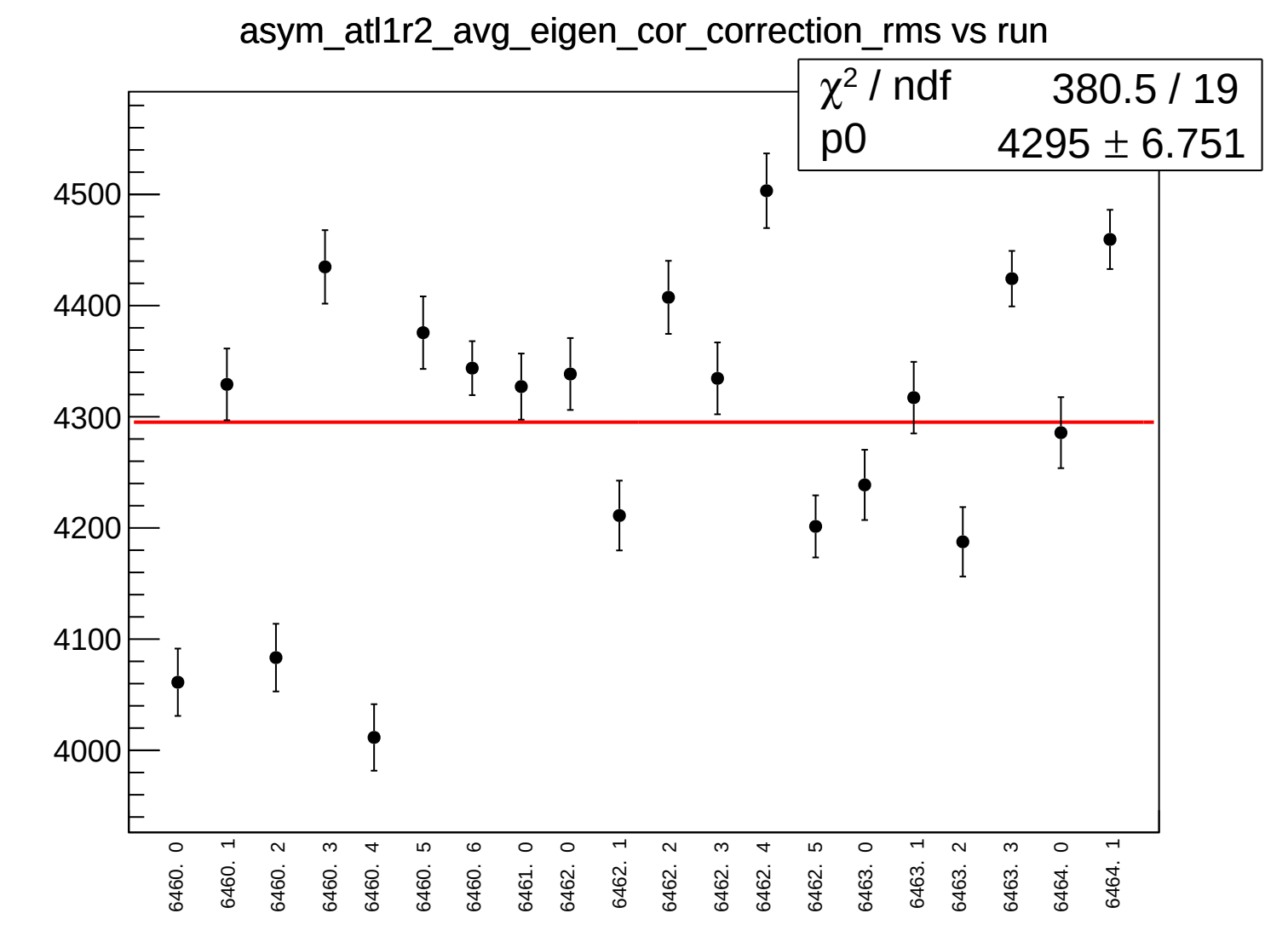

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 25.34 / 19
p0 −23.02 ± 3898
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −35.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

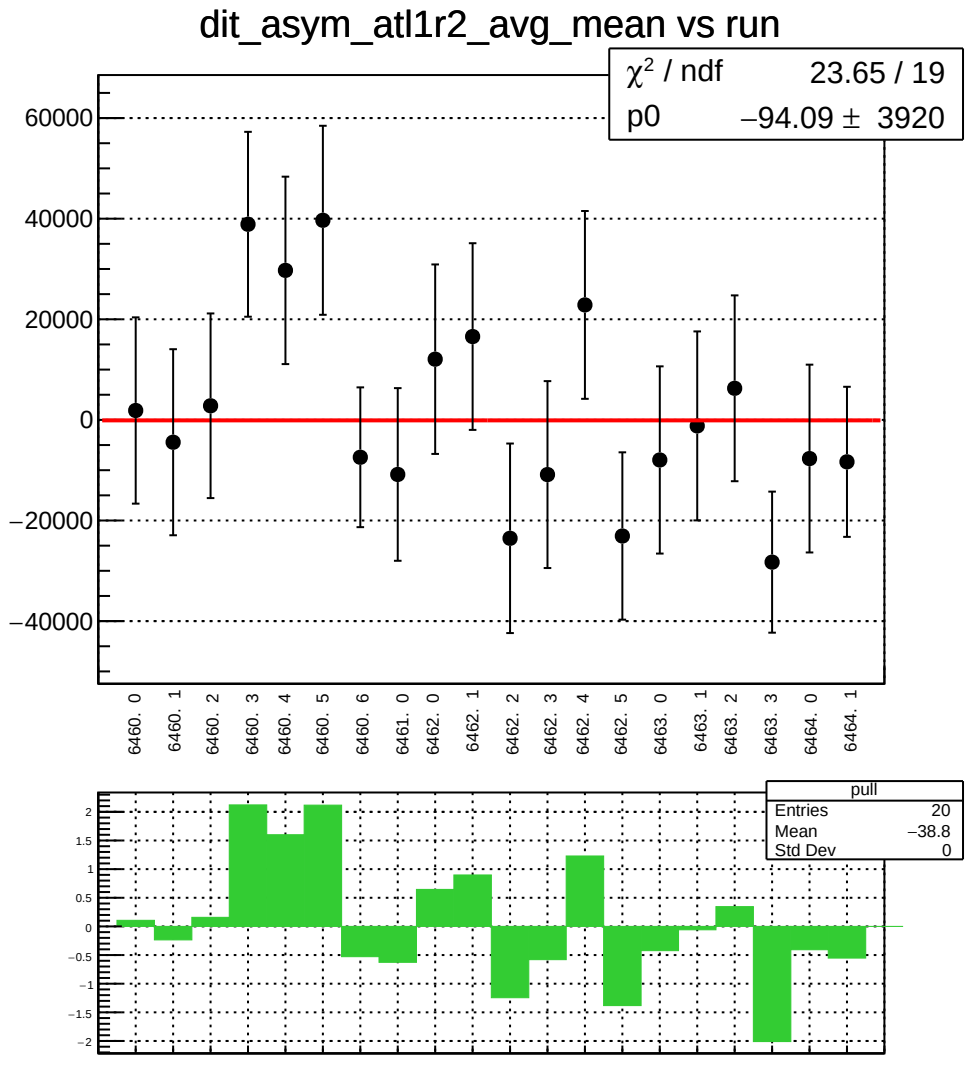

pull1D
Entries 20
Mean 0.0635
Std Dev 1.124
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

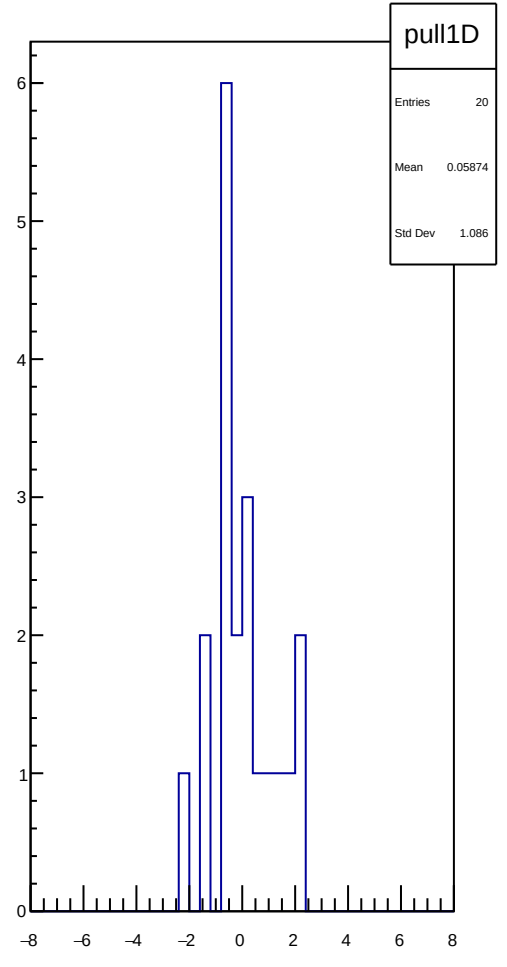

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 18.54 / 19
p0 1755 ± 2.756
1800
1790
1780
1770
1760
1750
1740
1730
1720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

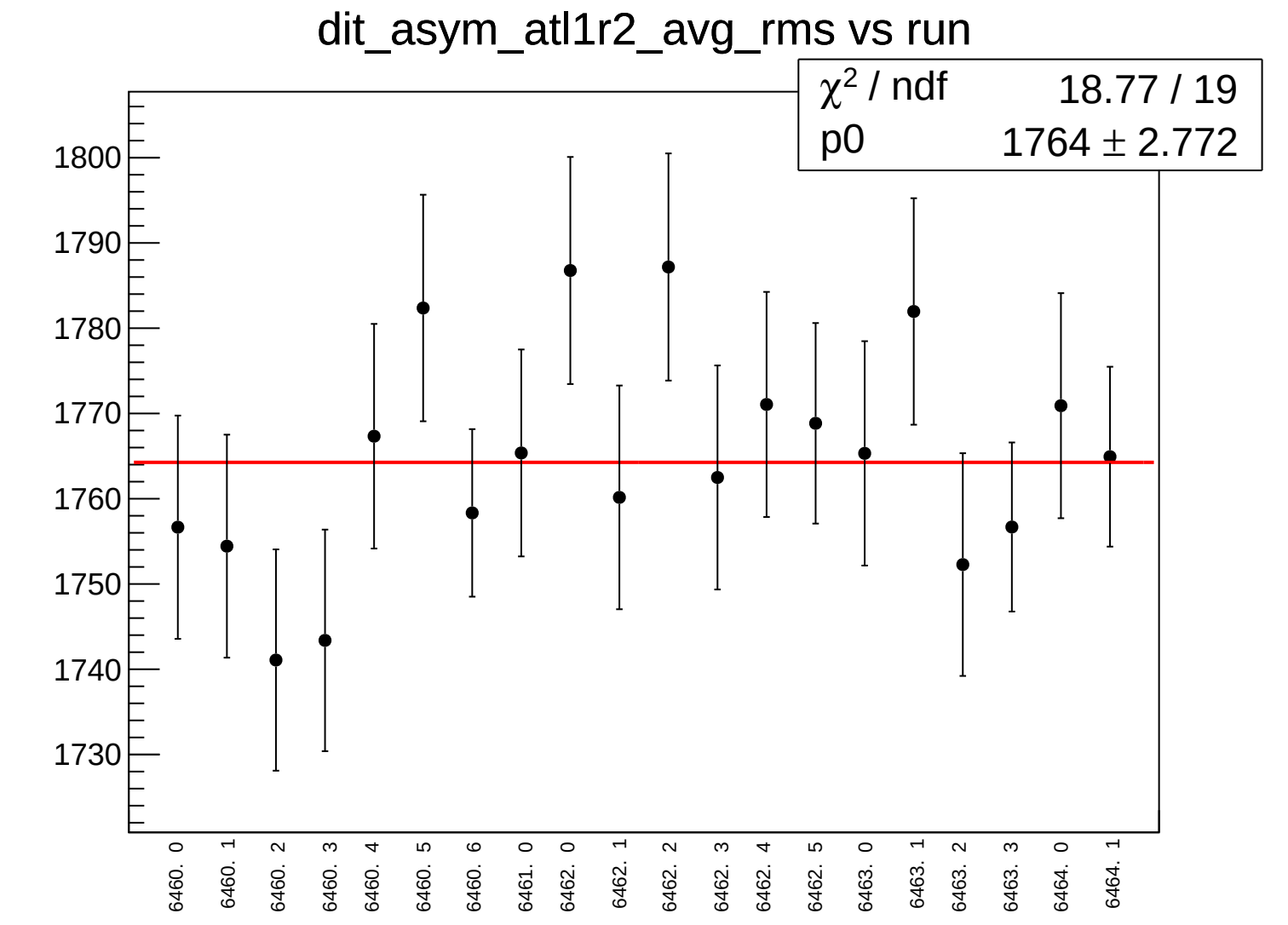

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 11.67 / 19
p0 8805 ± 9547
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

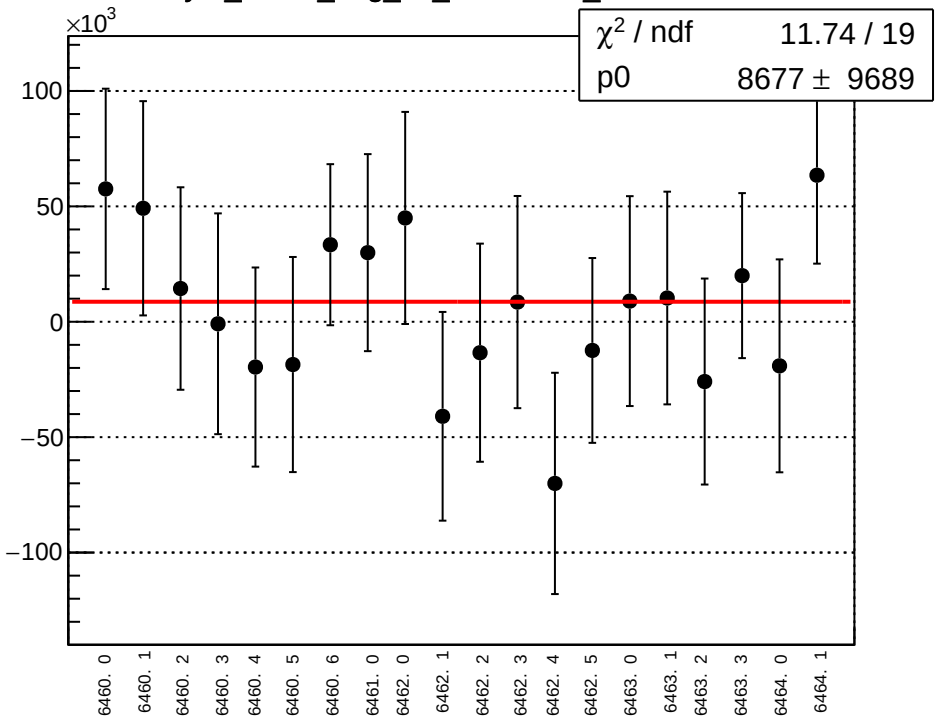

pull1D
Entries 20
Mean −0.03129
Std Dev 0.7633
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

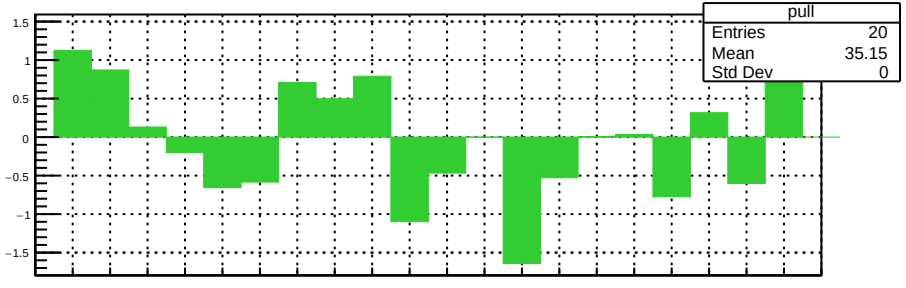

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 380.5 / 19
p0 4295 ± 6.751
4500
4400
4300
4200
4100
4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

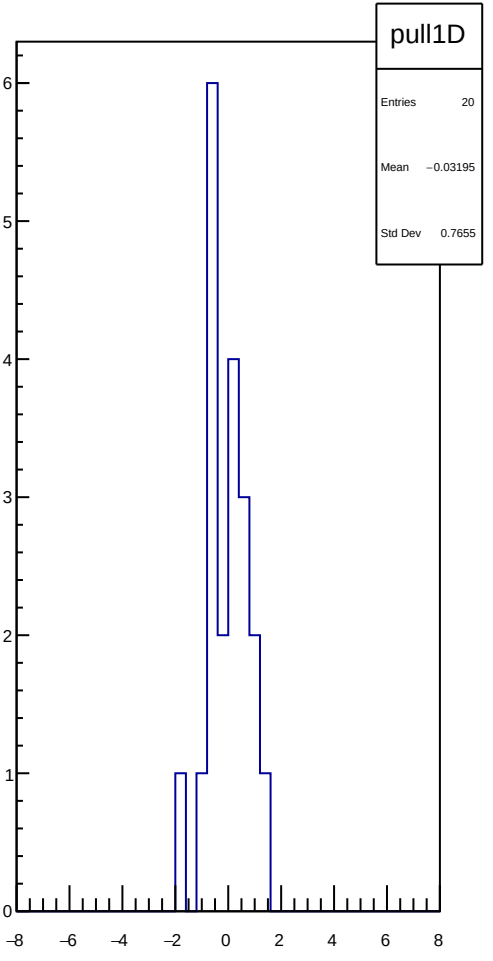

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 23.65 / 19
p0 −94.09 ± 3920
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −38.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

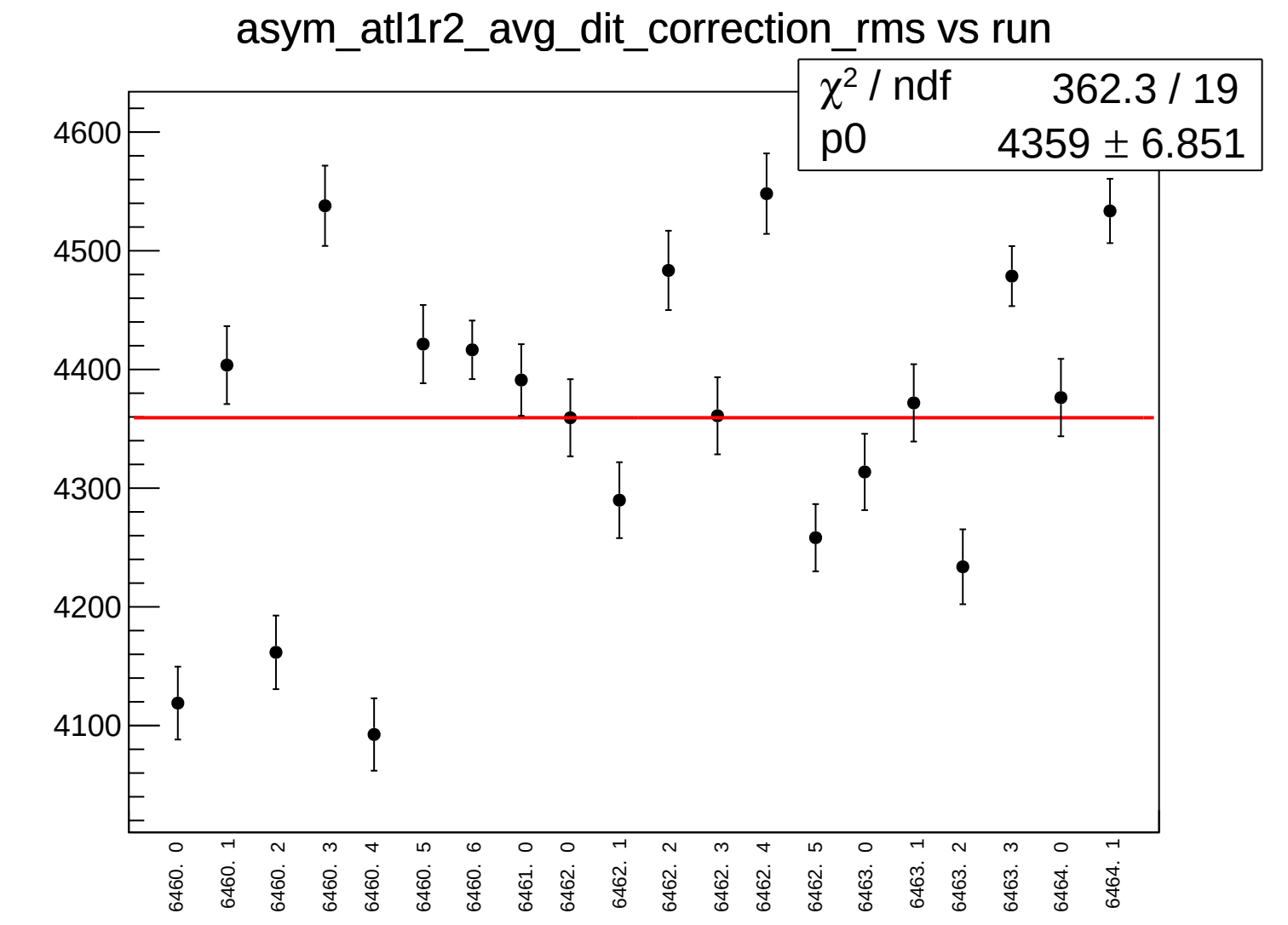

pull1D
Entries 20
Mean 0.05874
Std Dev 1.086
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

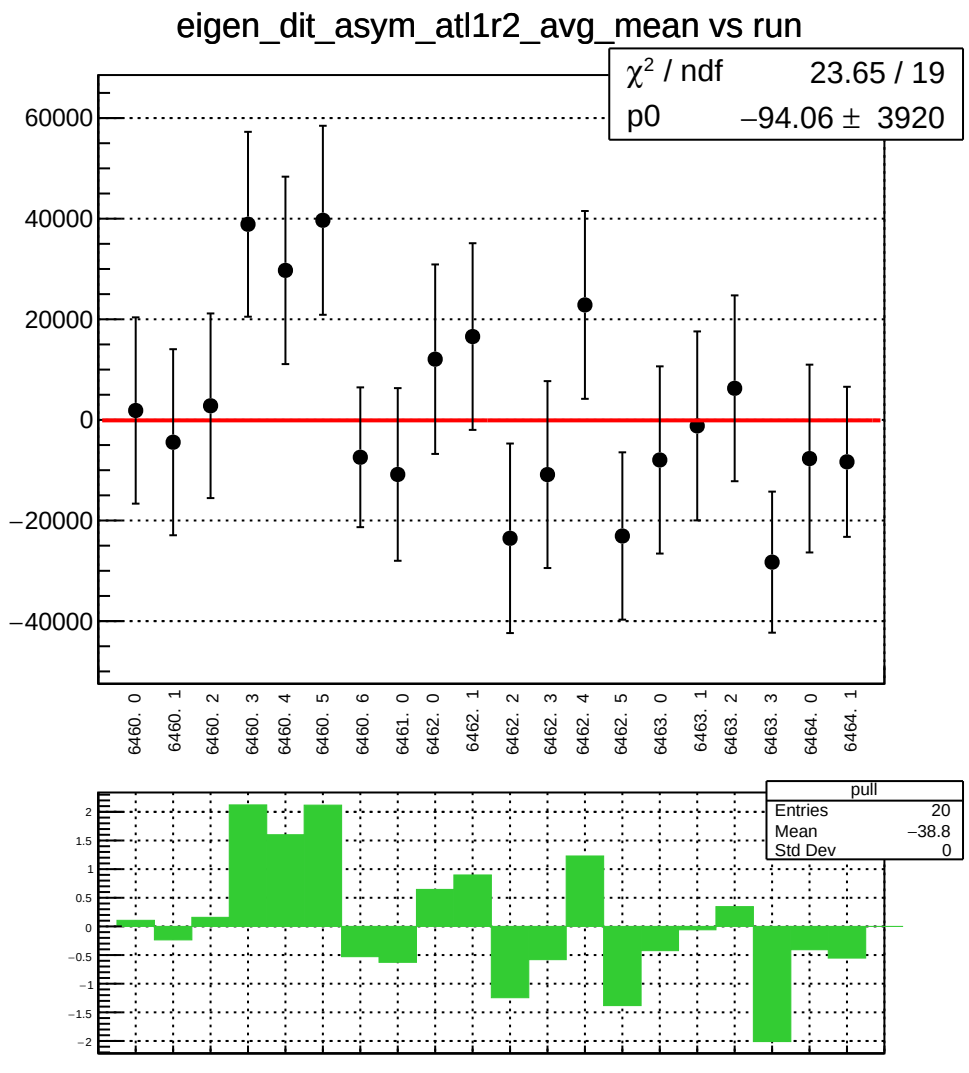

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 18.77 / 19
p0 1764 ± 2.772
1800
1790
1780
1770
1760
1750
1740
1730
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

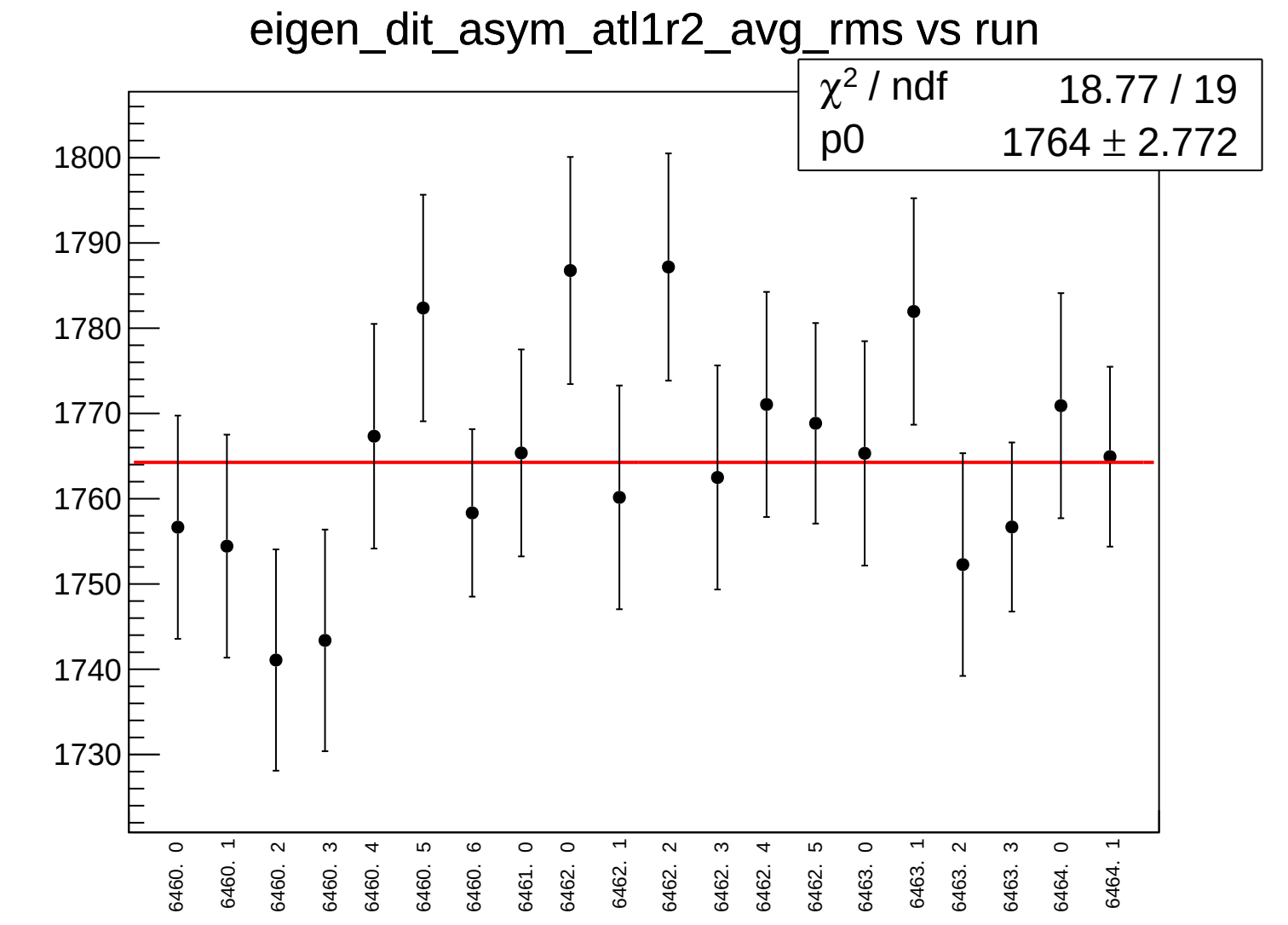

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 11.74 / 19
p0 8677 ± 9689
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

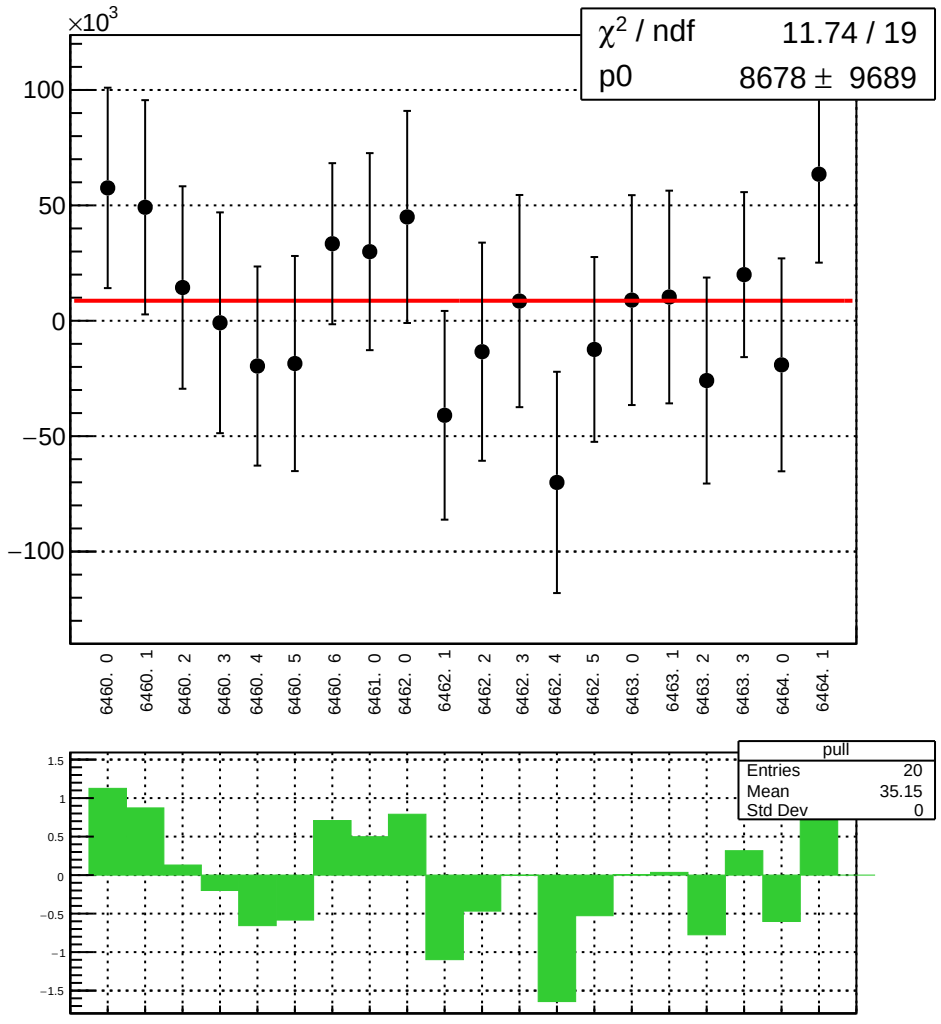

pull
Entries 20
Mean 35.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

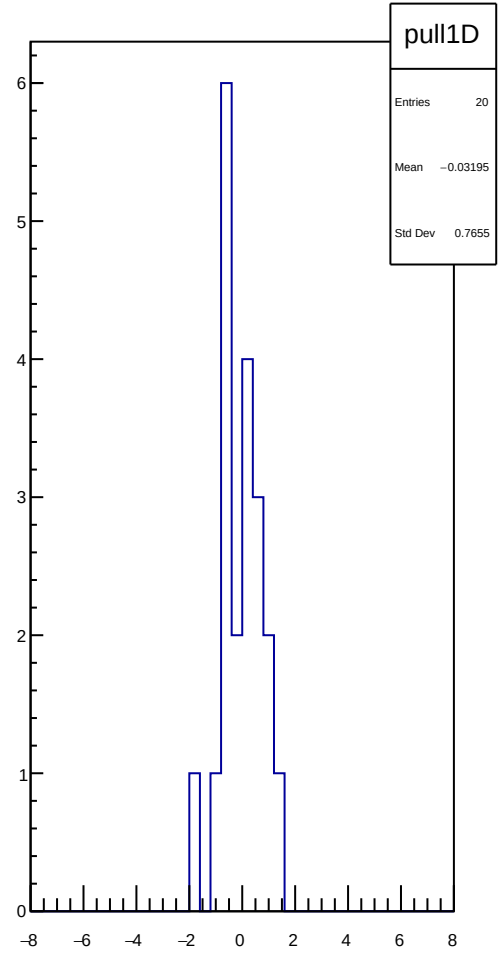

pull1D
Entries 20
Mean −0.03195
Std Dev 0.7655
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

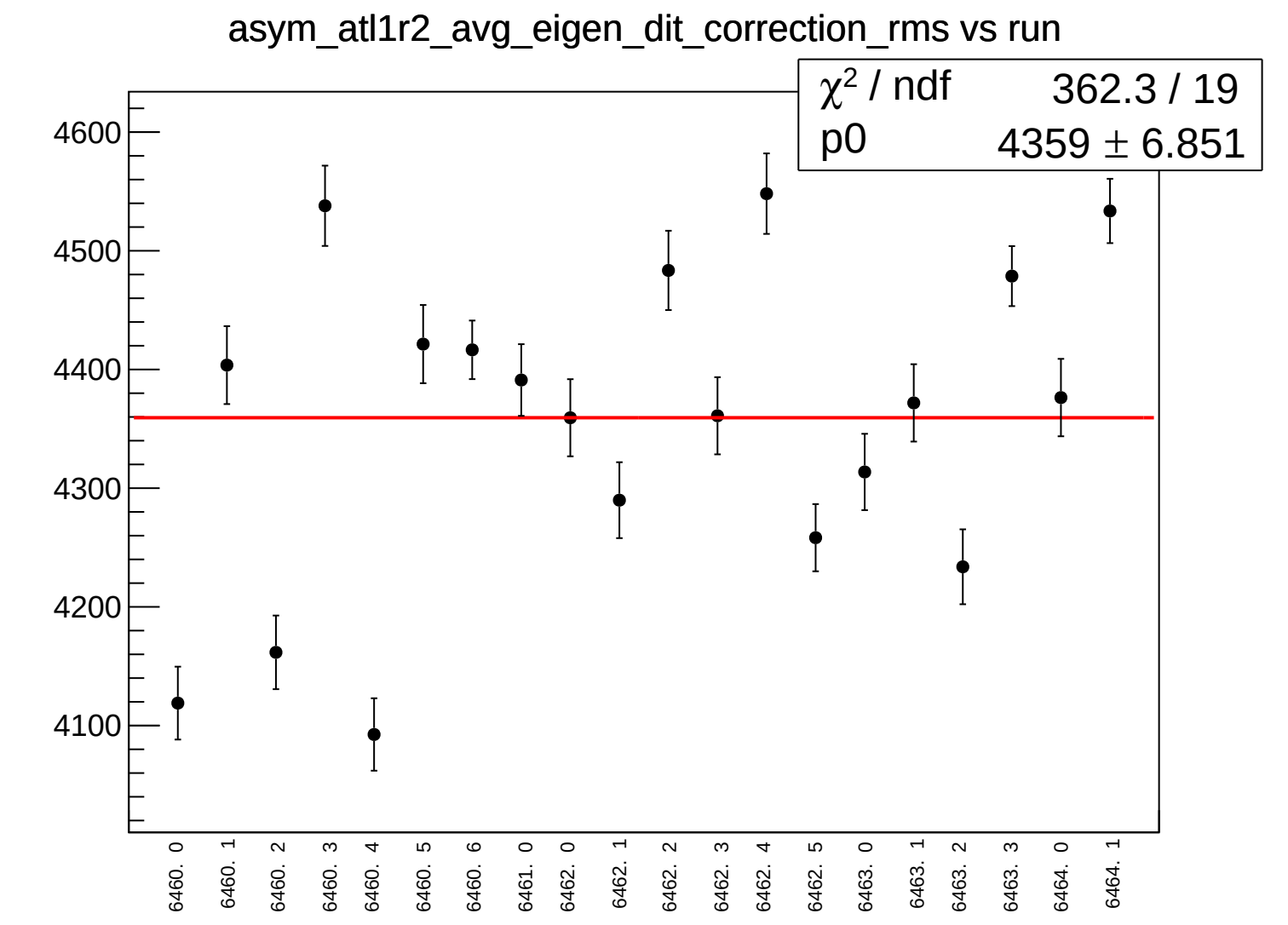

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 362.3 / 19
p0 4359 ± 6.851
4600
4500
4400
4300
4200
4100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

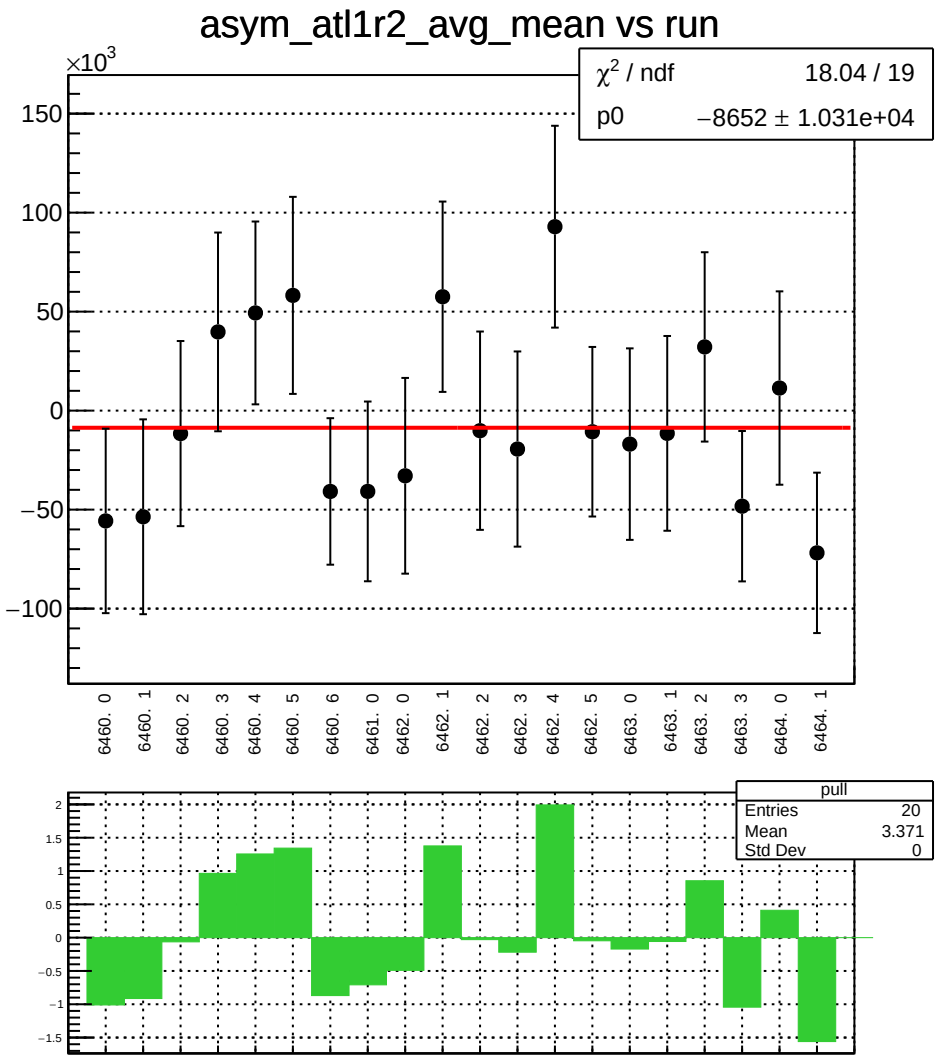

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 23.65 / 19
p0 −94.06 ± 3920
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −38.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.05874
Std Dev 1.086
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

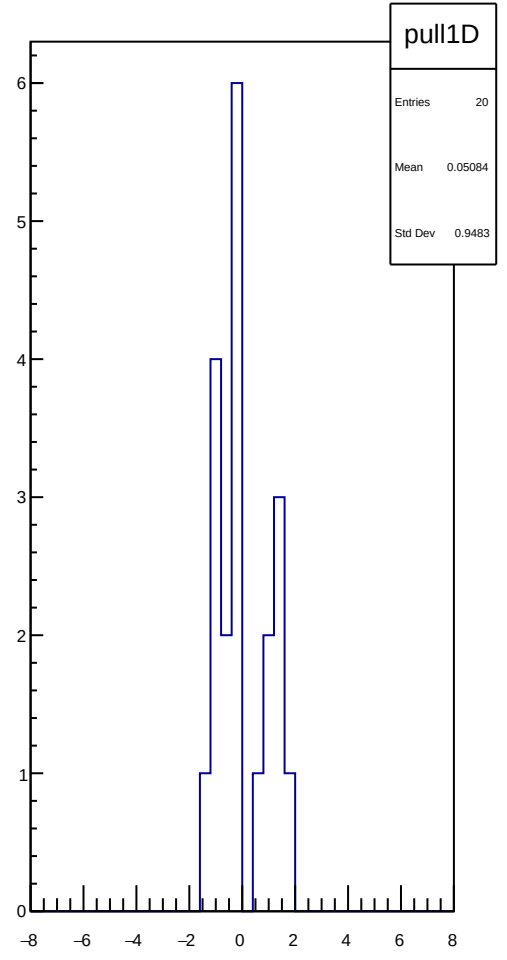

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 18.77 / 19
p0 1764 ± 2.772
1800
1790
1780
1770
1760
1750
1740
1730
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

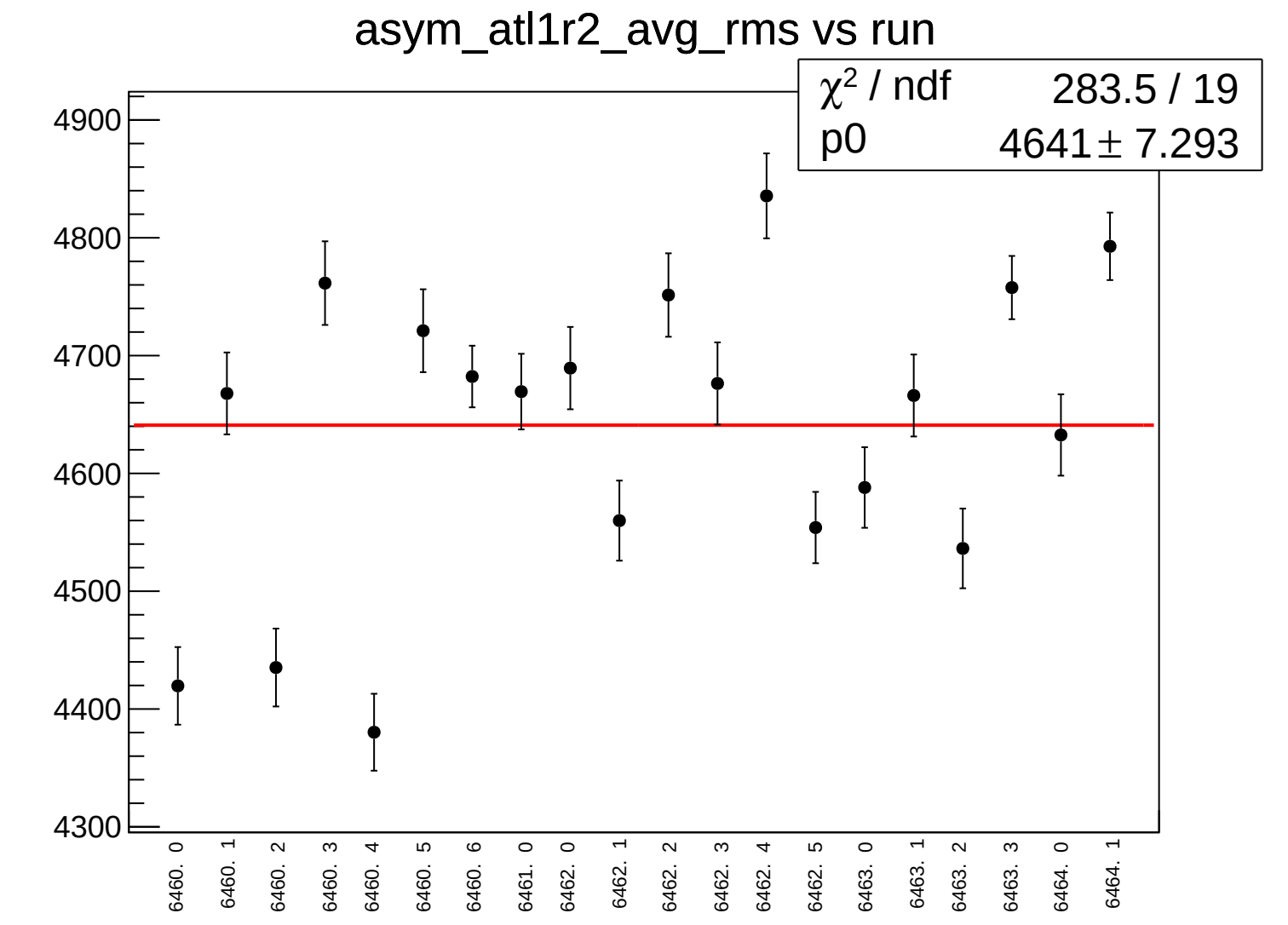

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 11.74 / 19
p0 8678 ± 9689
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 35.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

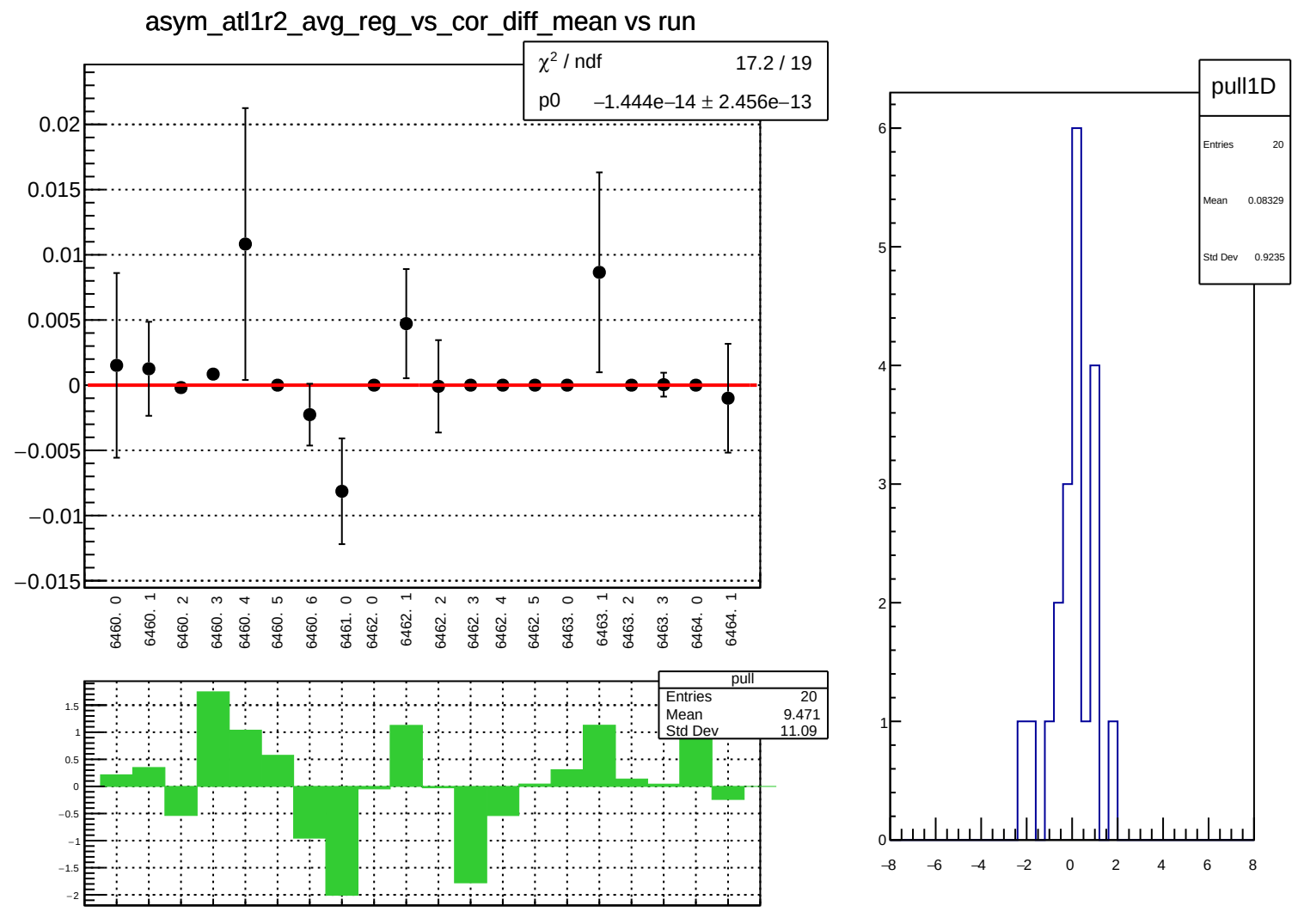

pull1D
Entries 20
Mean −0.03195
Std Dev 0.7655
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

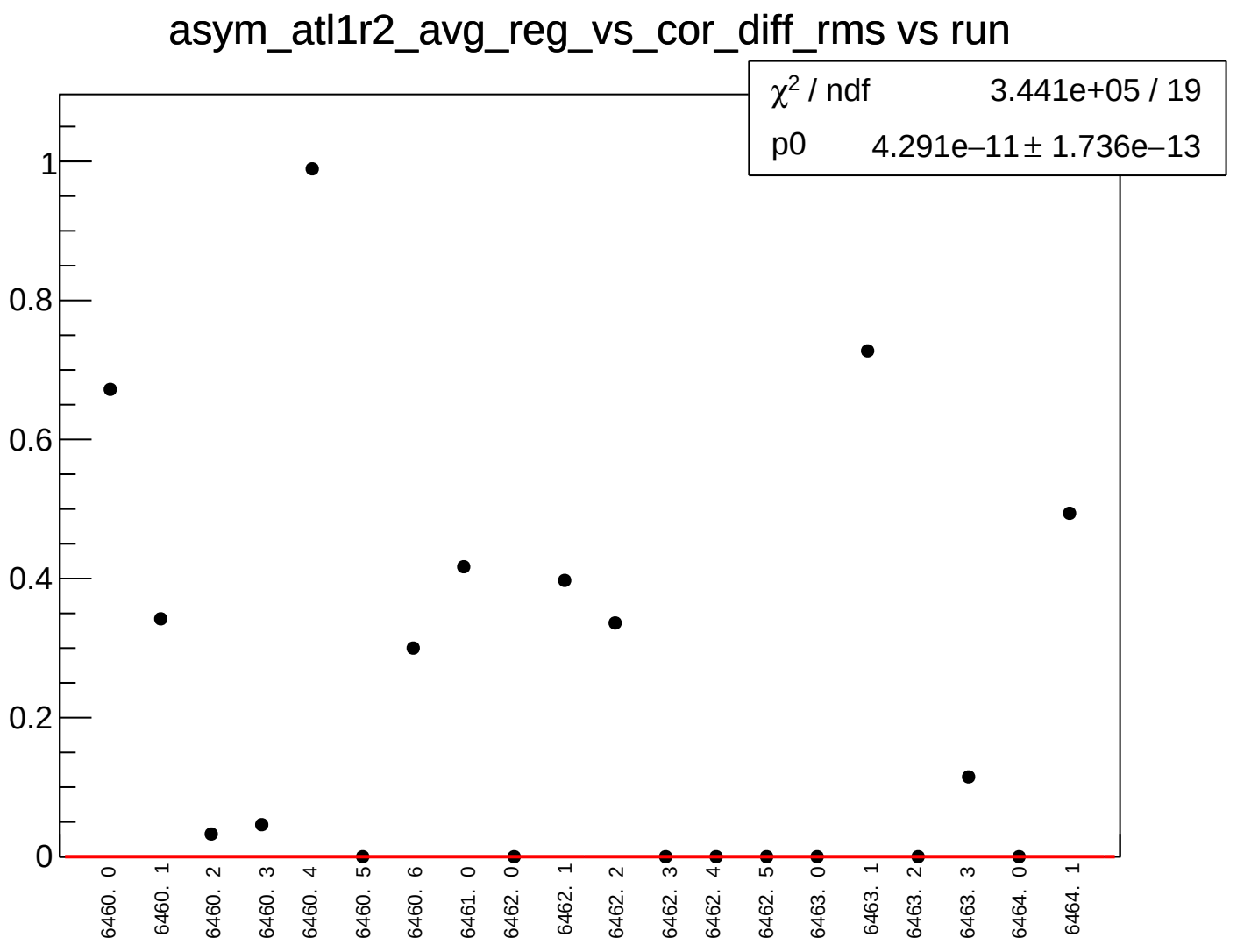

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 362.3 / 19
p0 4359 ± 6.851
4600
4500
4400
4300
4200
4100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

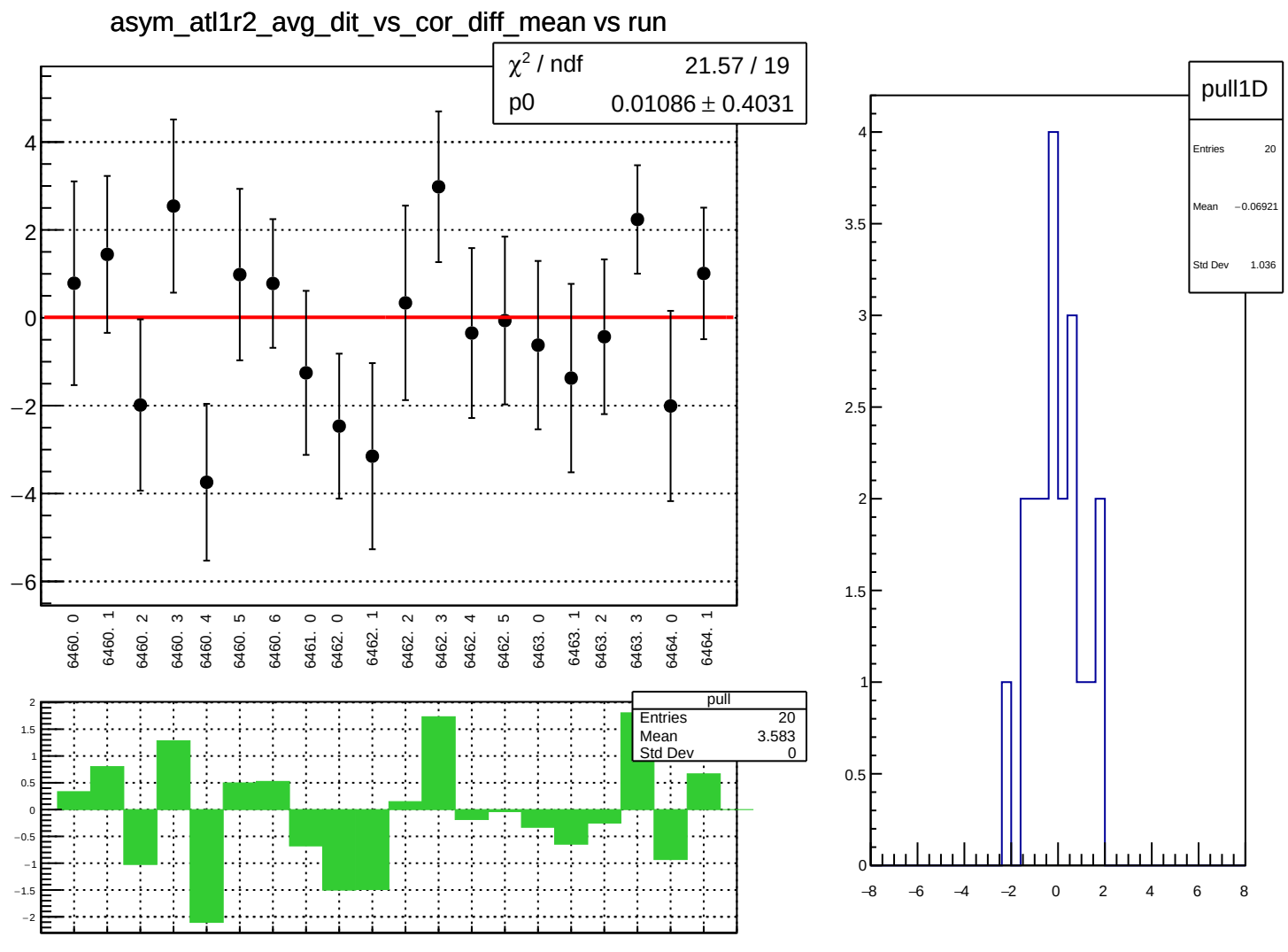

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 18.04 / 19
p0 −8652 ± 1.031e+04
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.371
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

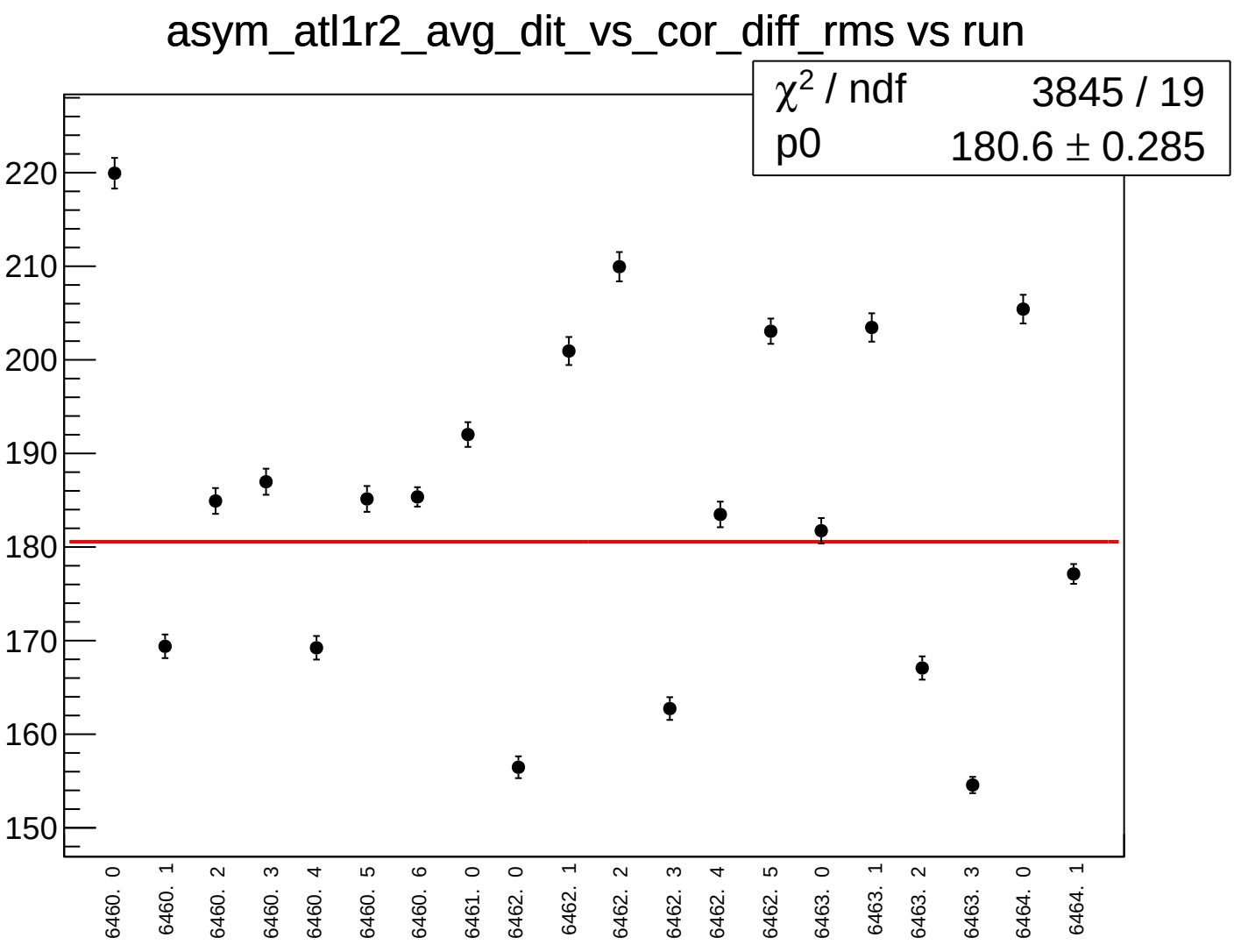

pull1D
Entries 20
Mean 0.05084
Std Dev 0.9483
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

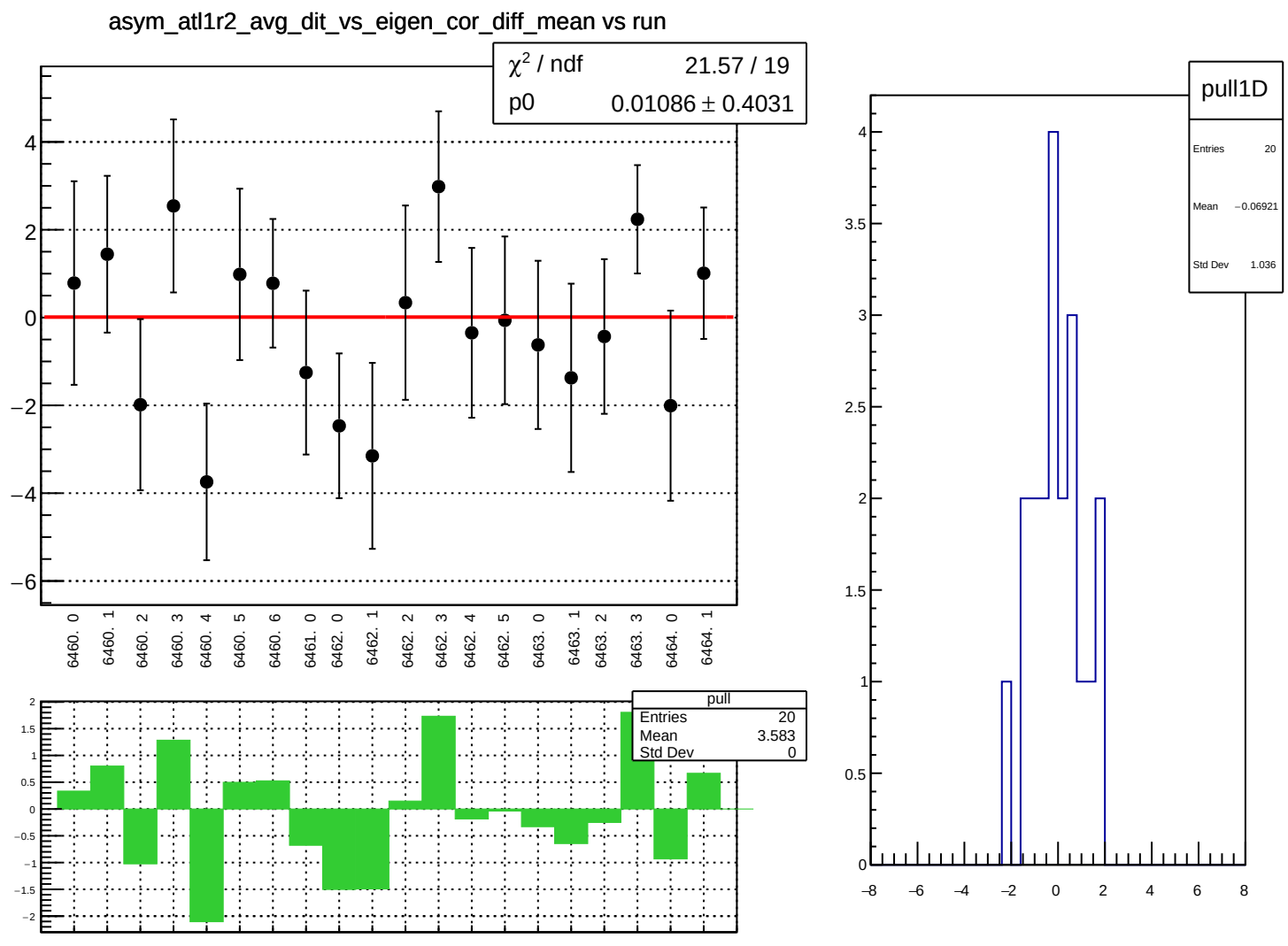

asym_atl1r2_avg_rms vs run
χ² / ndf 283.5 / 19
p0 4641 ± 7.293
4900
4800
4700
4600
4500
4400
4300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

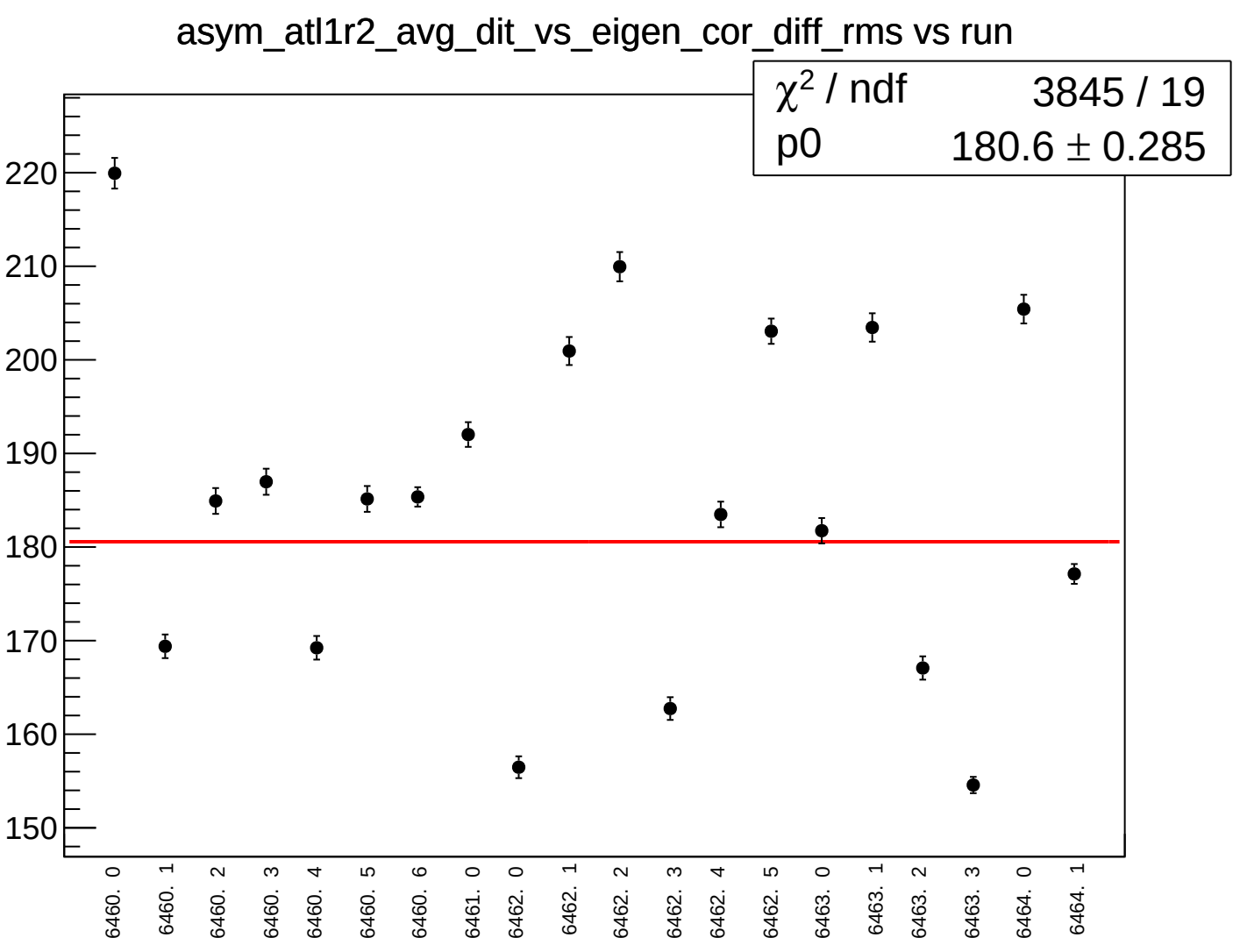

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 17.2 / 19
p0 −1.444e−14 ± 2.456e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.471
Std Dev 11.09
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.08329
Std Dev 0.9235
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

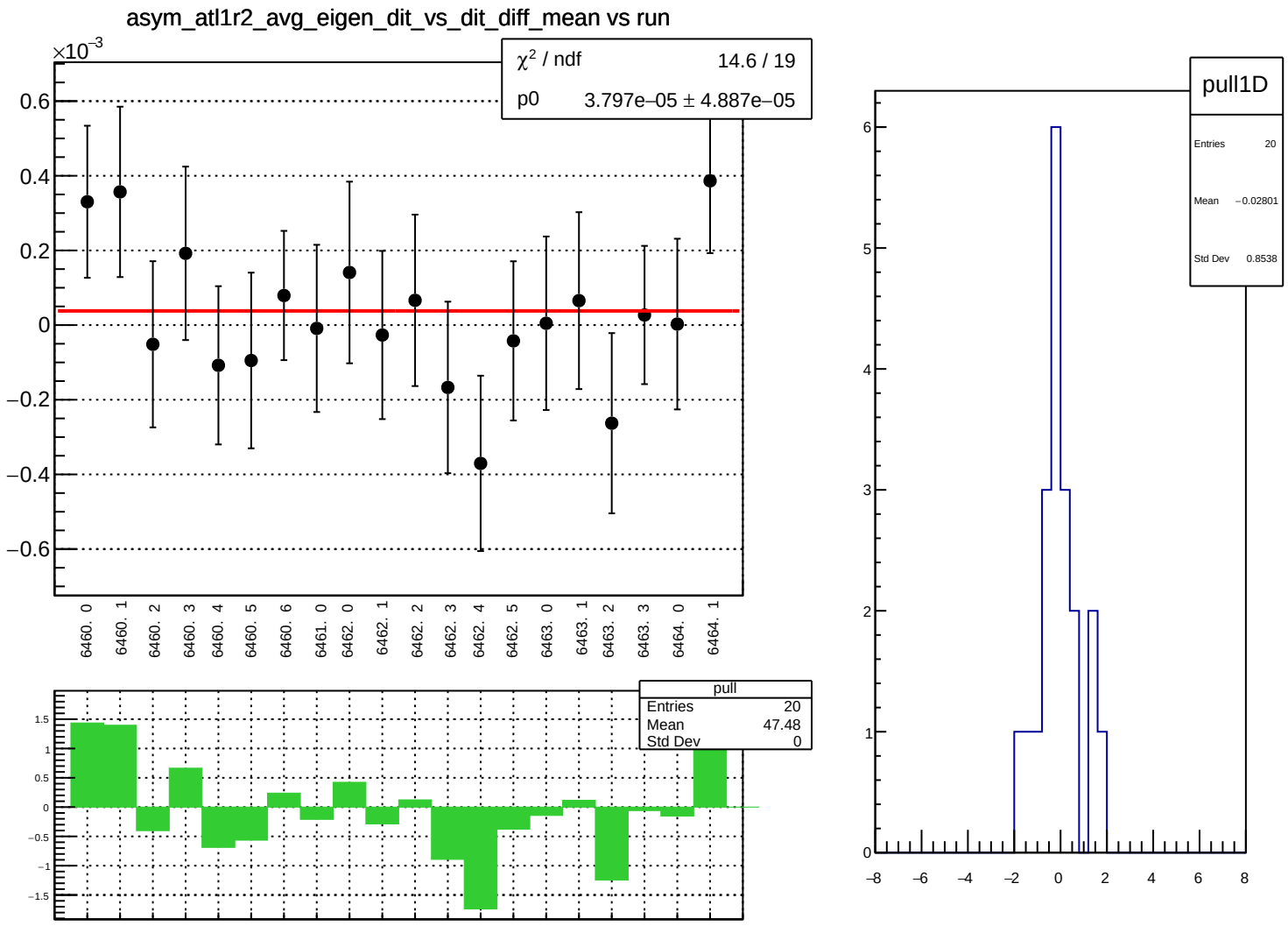

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.441e+05 / 19
p0 4.291e−11 ± 1.736e−13
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

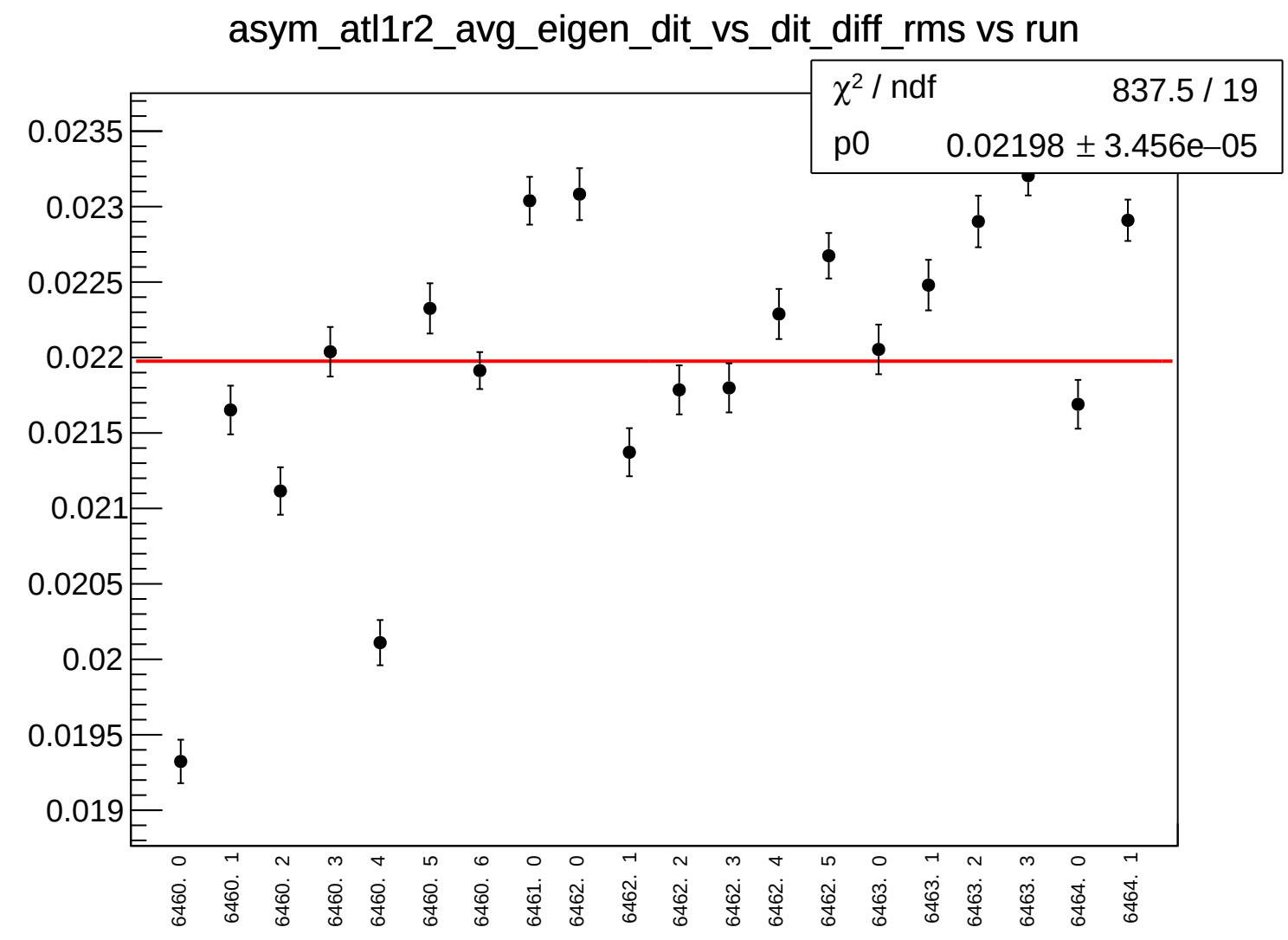

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 21.57 / 19
p0 0.01086 ± 0.4031
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.583
Std Dev 0
pull1D
Entries 20
Mean −0.06921
Std Dev 1.036

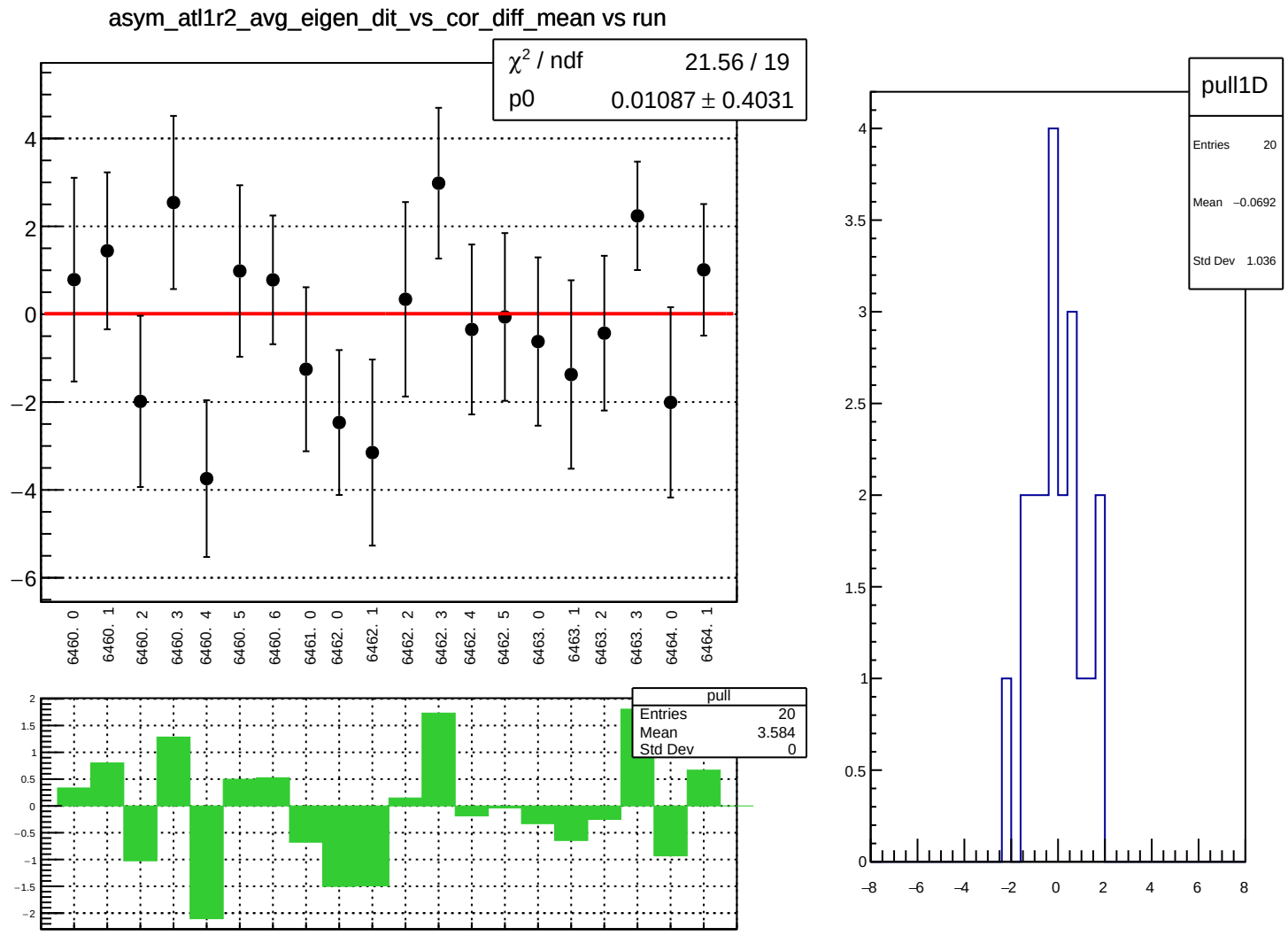

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3845 / 19
p0 180.6 ± 0.285
220
210
200
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

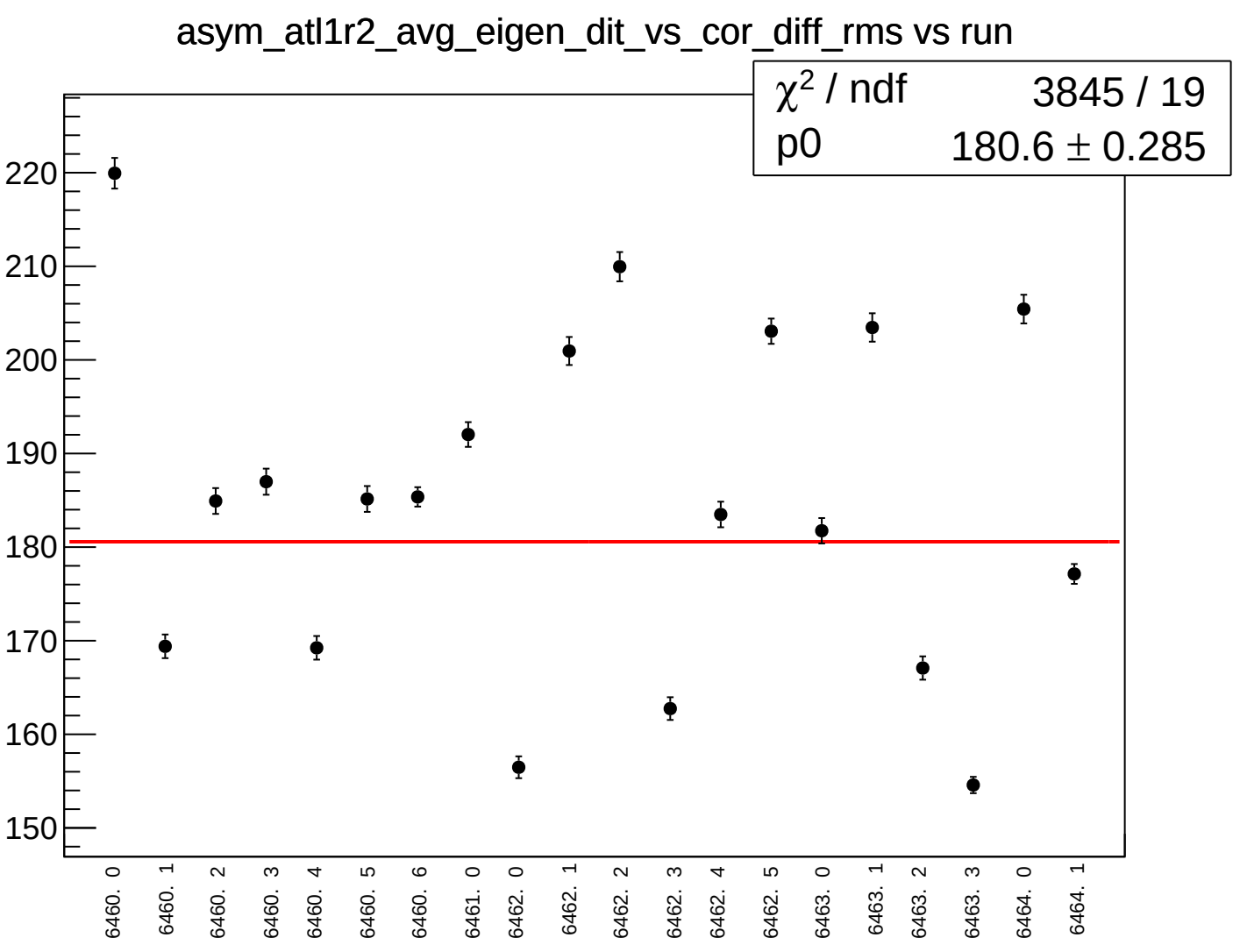

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.57 / 19
p0 0.01086 ± 0.4031
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.583
Std Dev 0
pull1D
Entries 20
Mean −0.06921
Std Dev 1.036

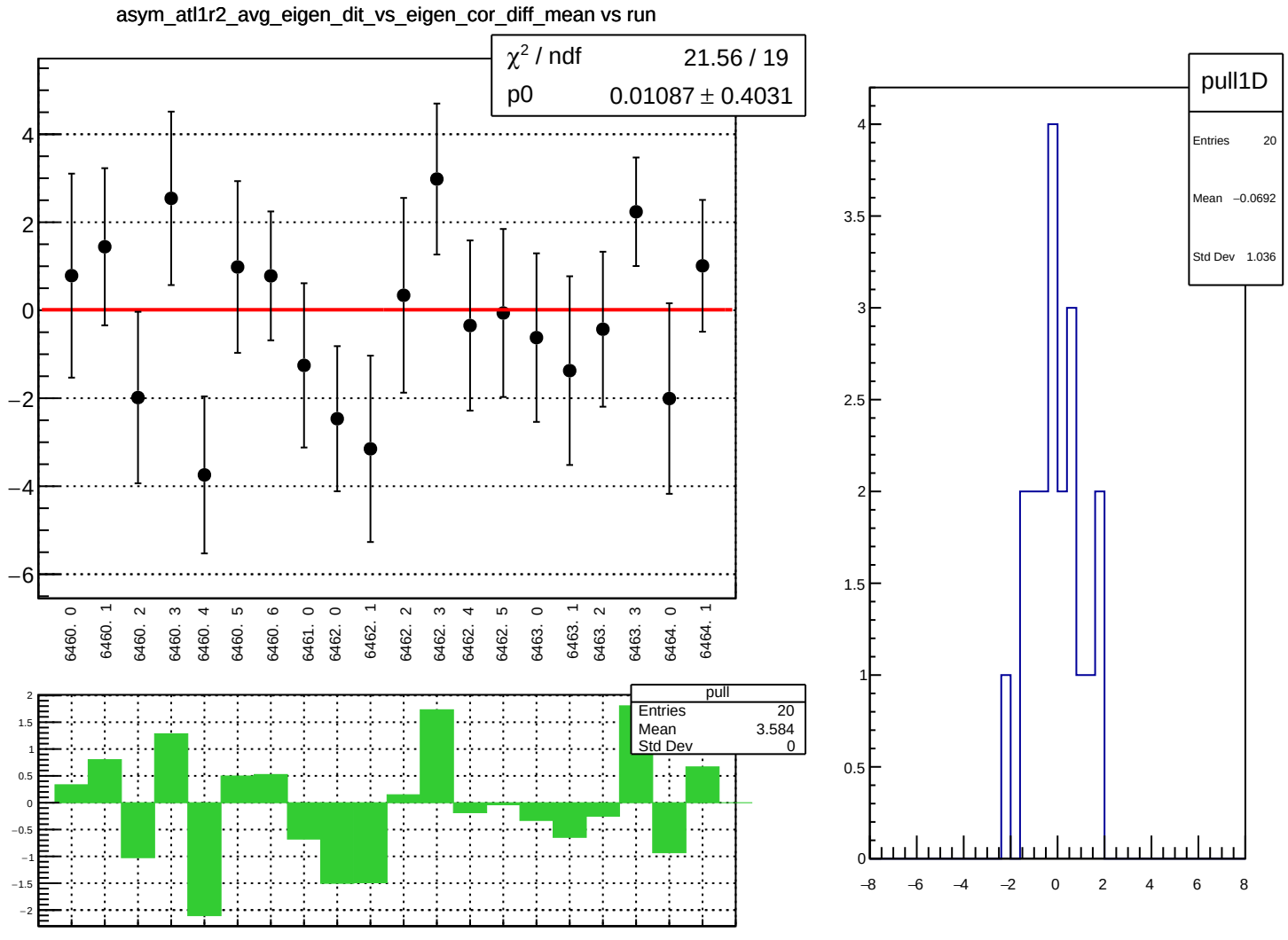

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3845 / 19
p0 180.6 ± 0.285
220
210
200
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

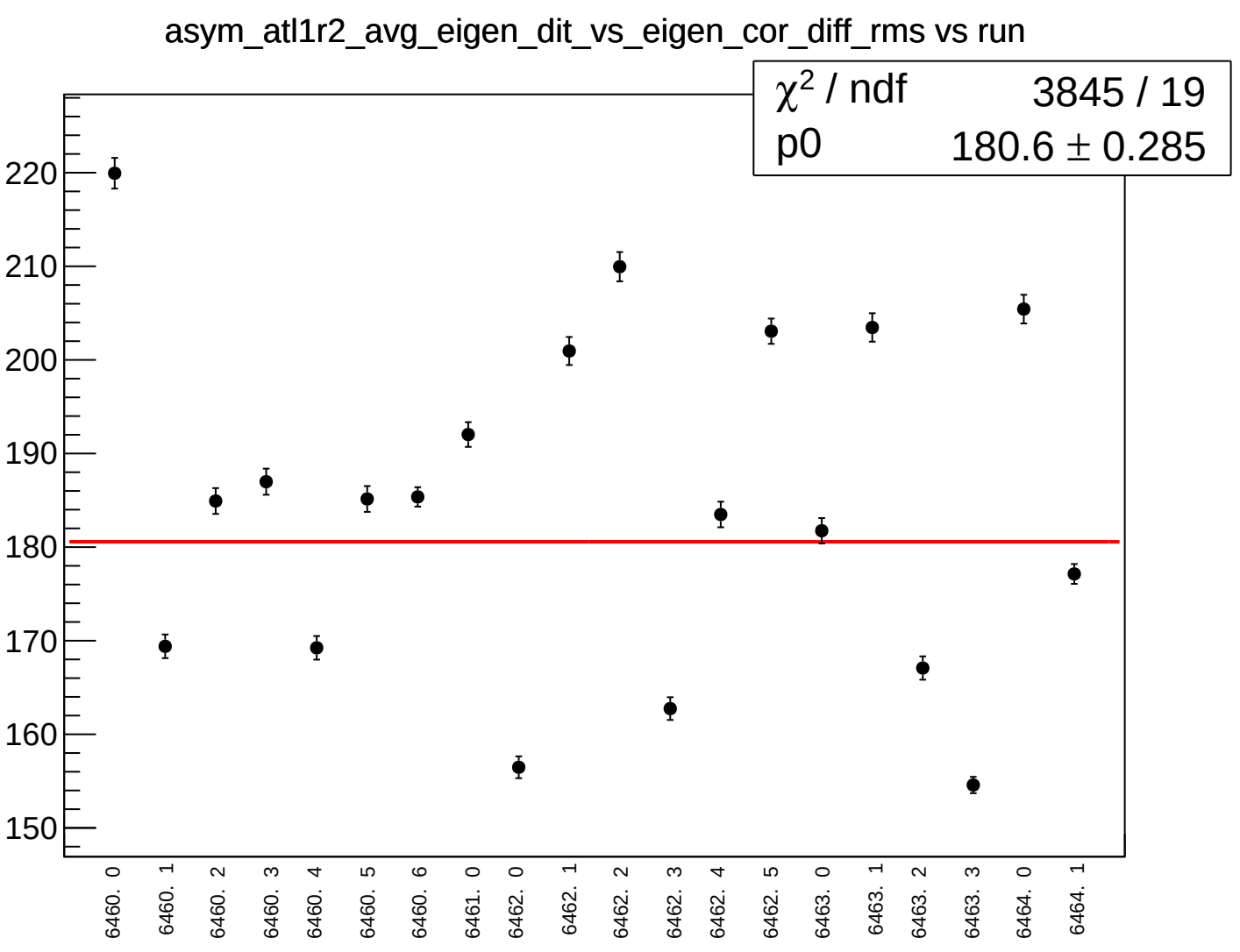

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.6 / 19
p0 3.797e−05 ± 4.887e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 47.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02801
Std Dev 0.8538
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

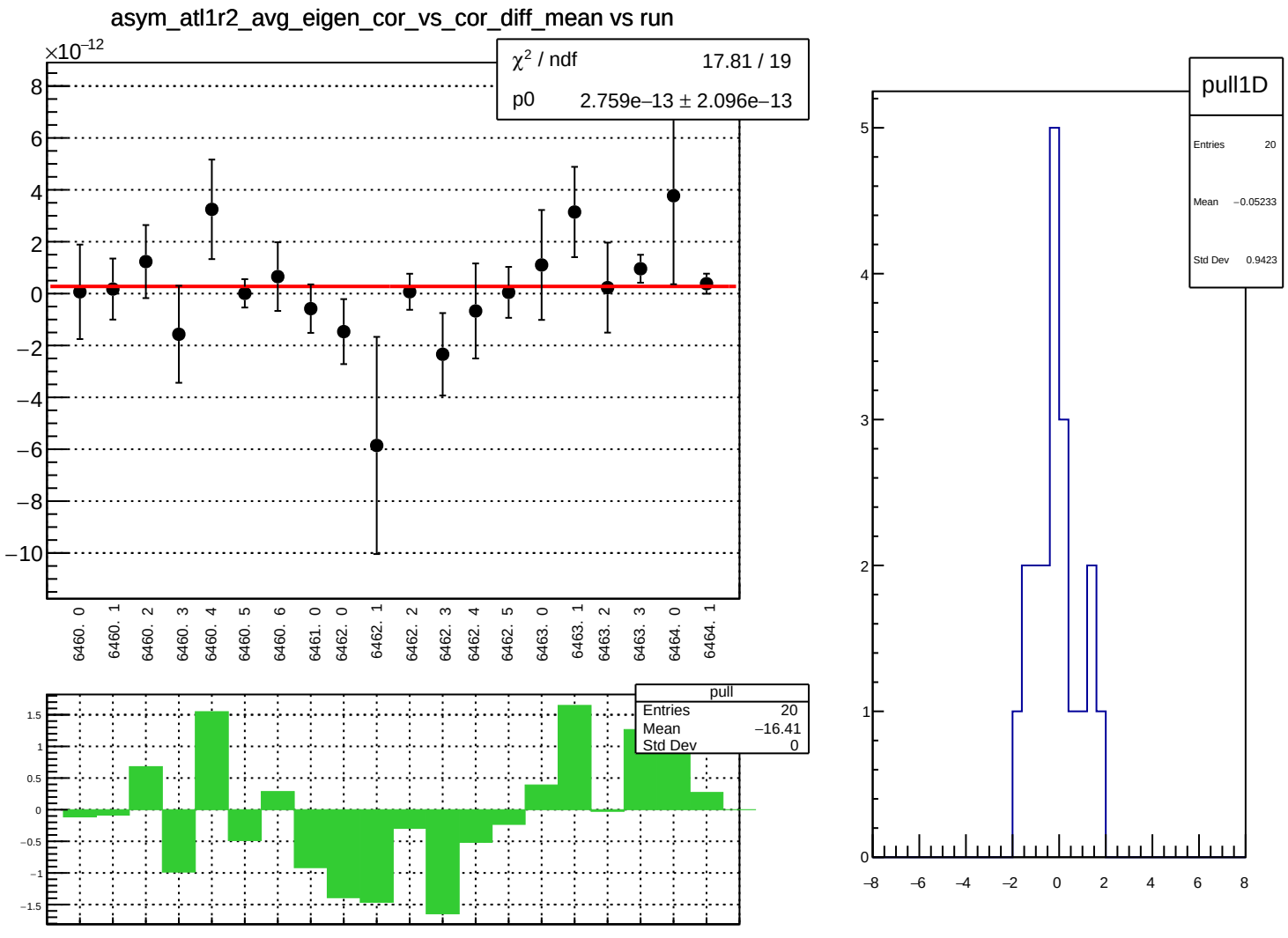

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 837.5 / 19
p0 0.02198 ± 3.456e−05
0.0235
0.023
0.0225
0.022
0.0215
0.021
0.0205
0.02
0.0195
0.019
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

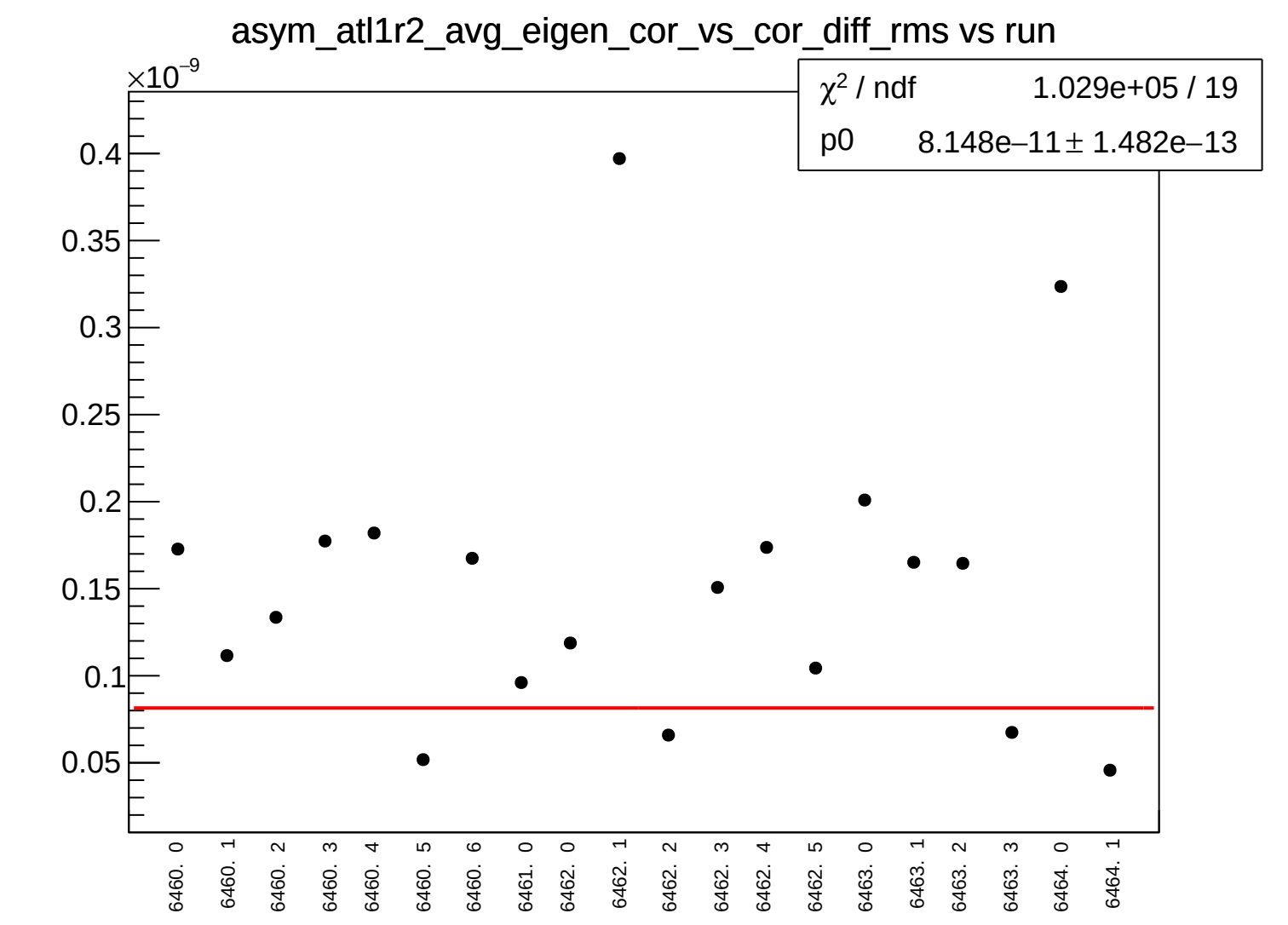

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.56 / 19
p0 0.01087 ± 0.4031
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.584
Std Dev 0
pull1D
Entries 20
Mean −0.0692
Std Dev 1.036

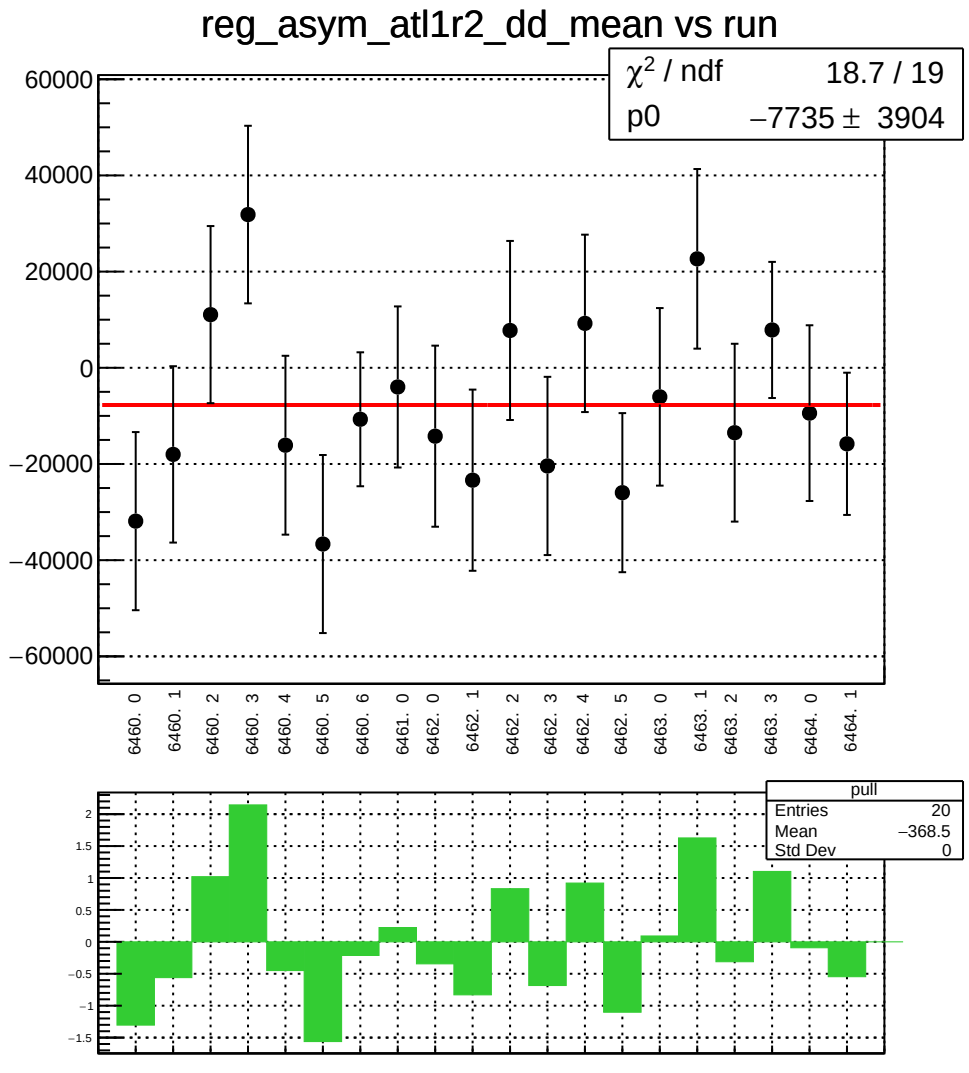

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3845 / 19
p0 180.6 ± 0.285
220
210
200
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

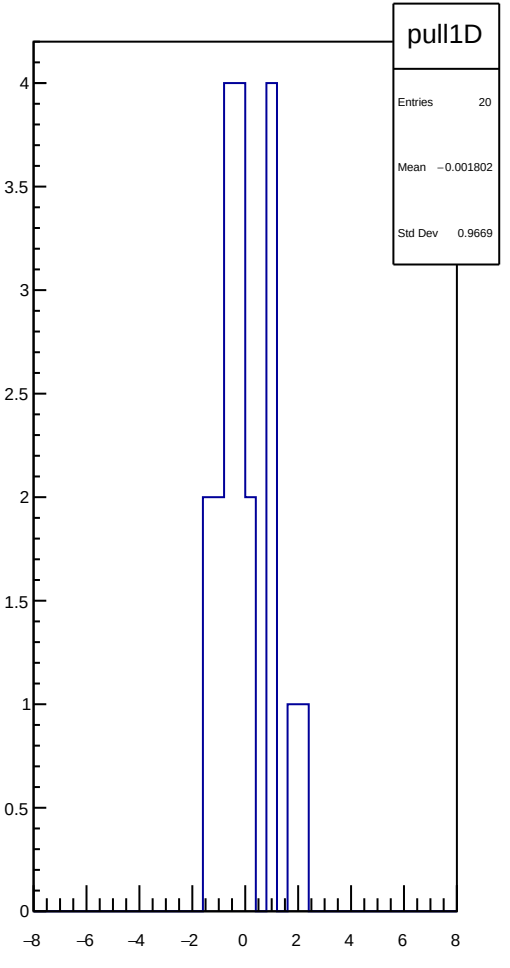

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.56 / 19
p0 0.01087 ± 0.4031
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.584
Std Dev 0
pull1D
Entries 20
Mean −0.0692
Std Dev 1.036

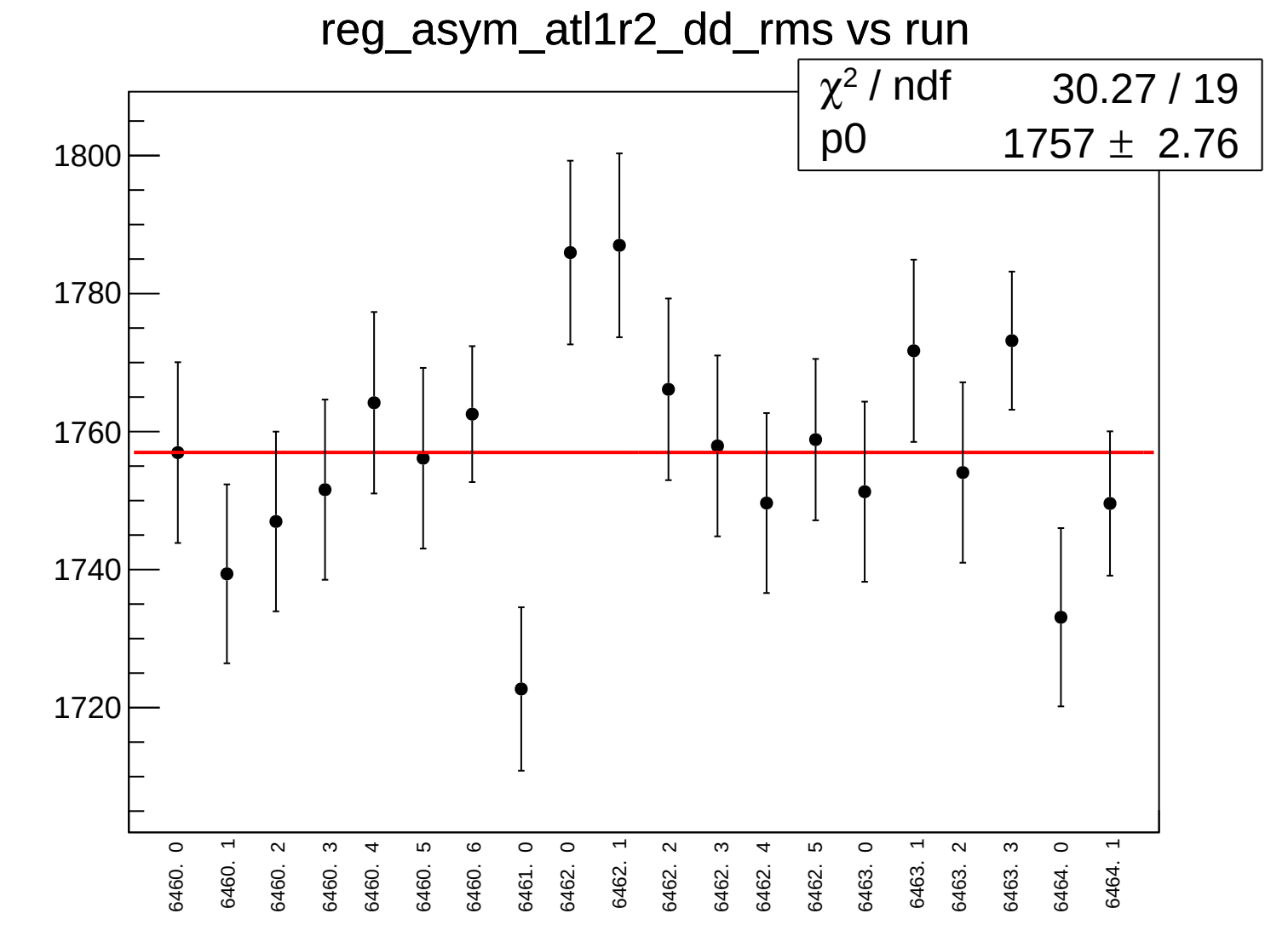

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3845 / 19
p0 180.6 ± 0.285
220
210
200
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

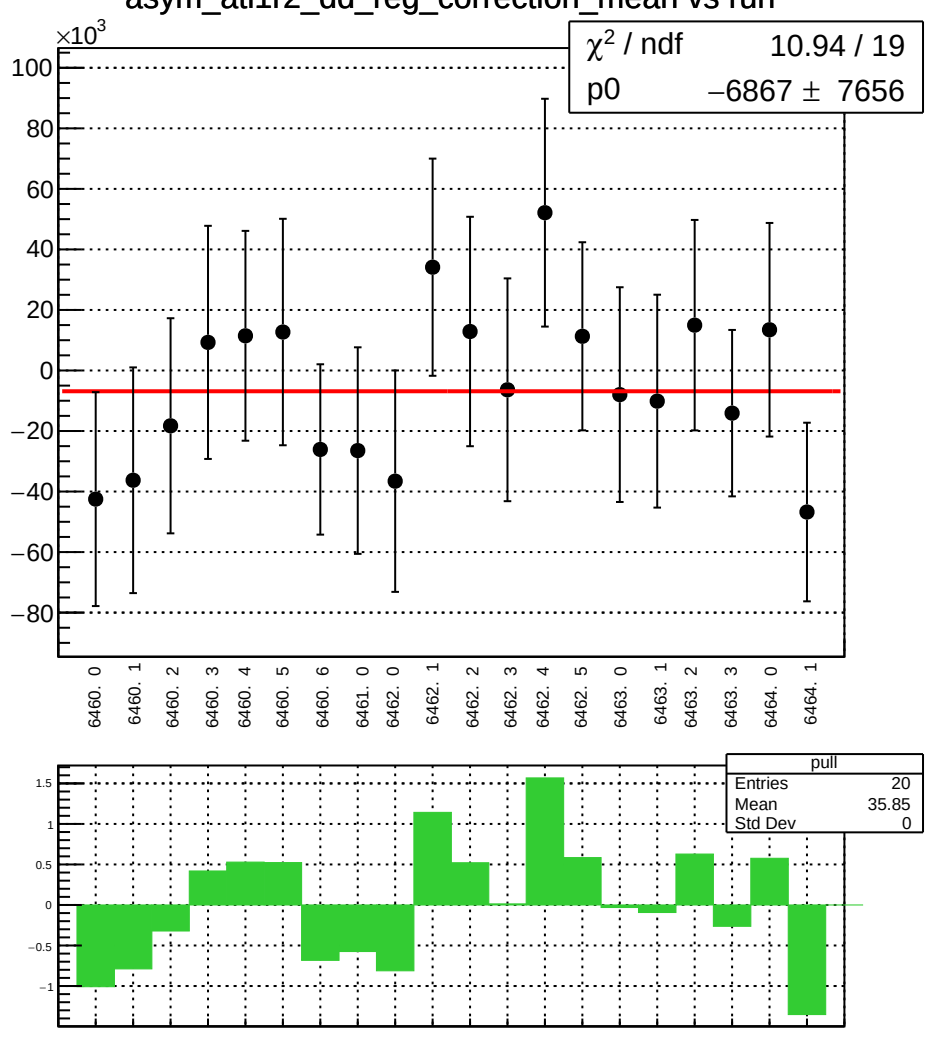

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.81 / 19
p0 2.759e−13 ± 2.096e−13
8
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −16.41
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.05233
Std Dev 0.9423
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

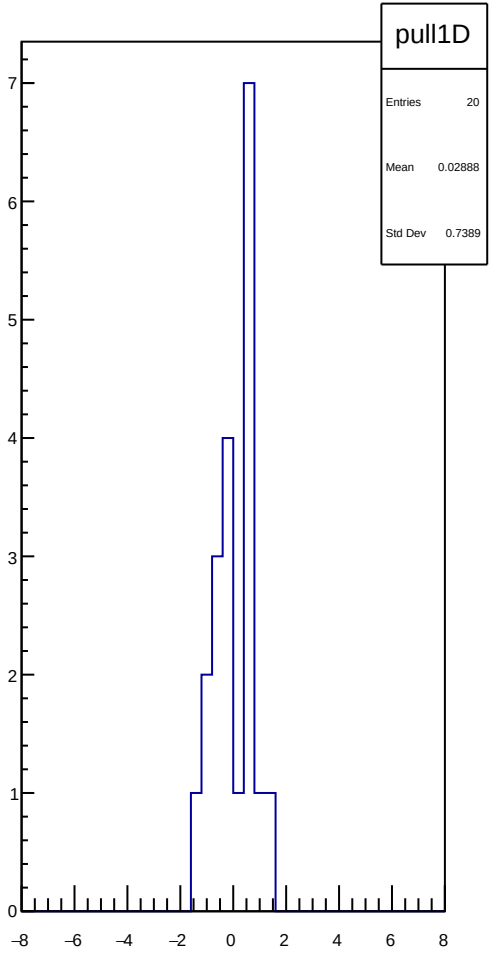

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.029e+05 / 19
p0 8.148e−11 ± 1.482e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

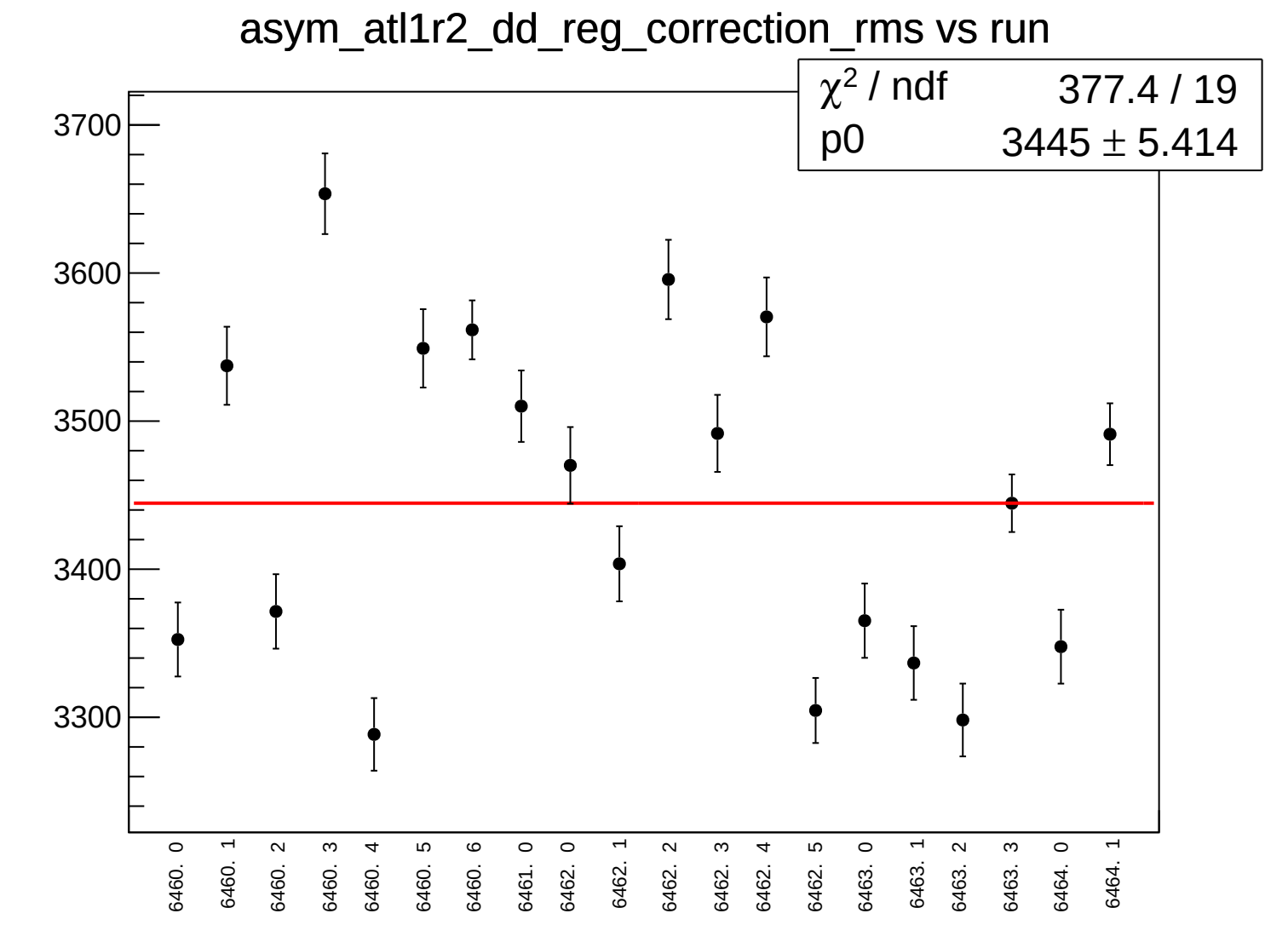

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 18.7 / 19
p0 −7735 ± 3904
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −368.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

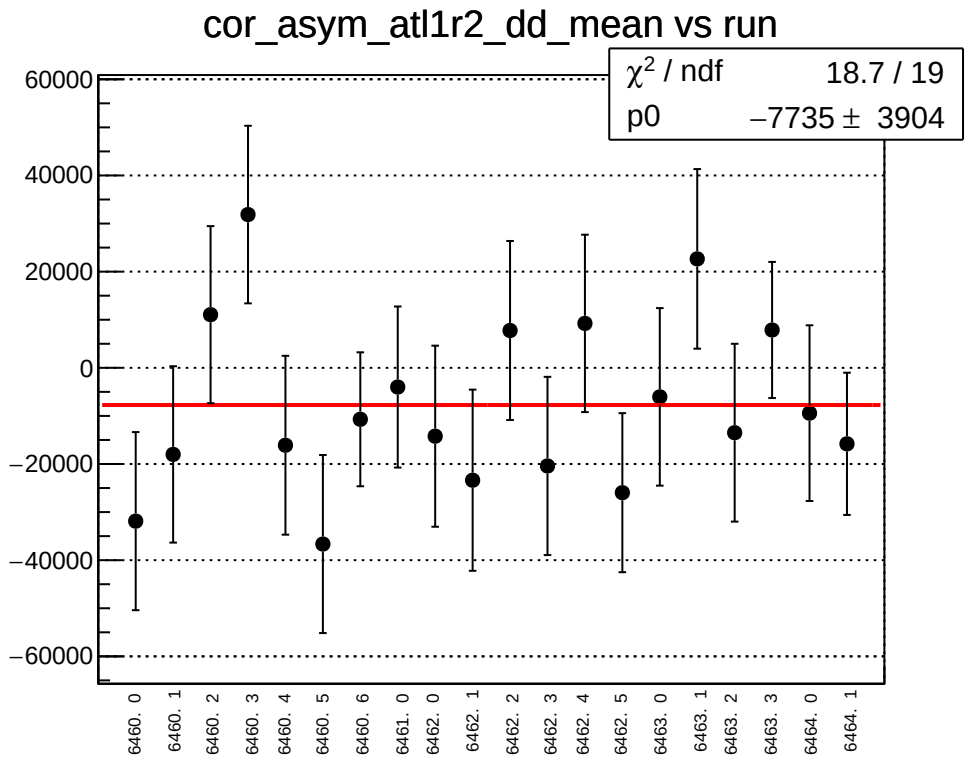

pull1D
Entries 20
Mean −0.001802
Std Dev 0.9669
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

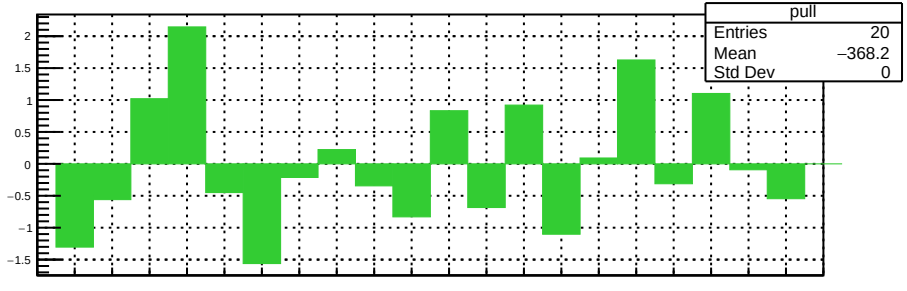

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 30.27 / 19
p0 1757 ± 2.76
1800
1780
1760
1740
1720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

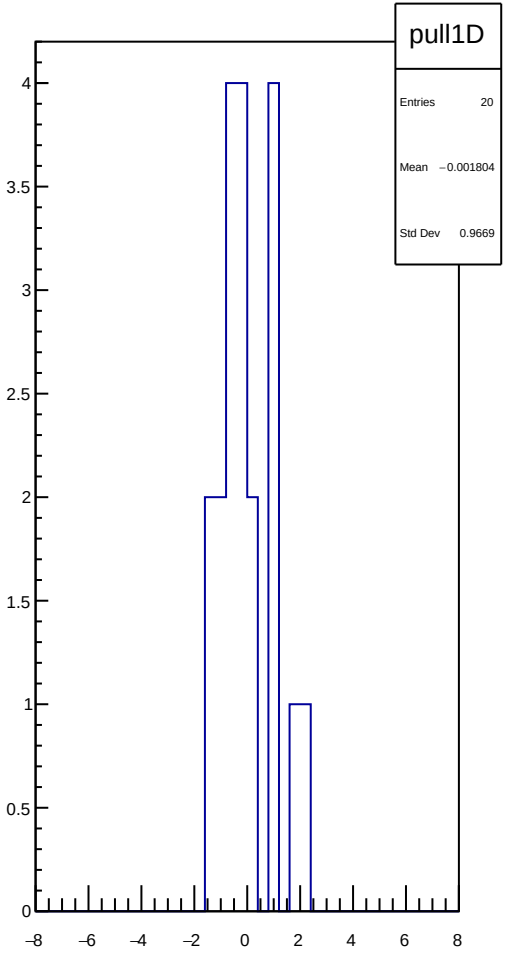

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 10.94 / 19
p0 −6867 ± 7656
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 35.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1

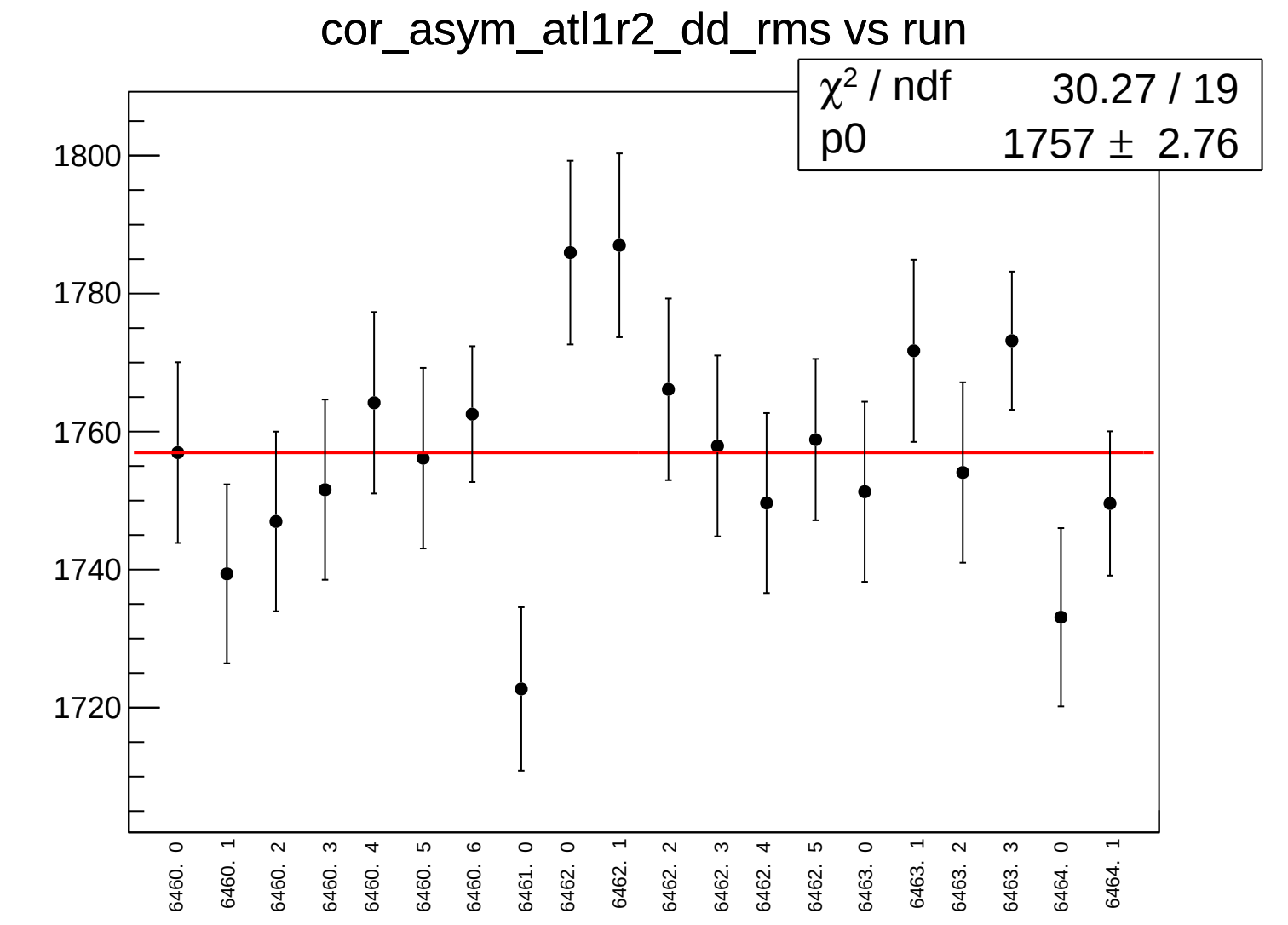

pull1D
Entries 20
Mean 0.02888
Std Dev 0.7389
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

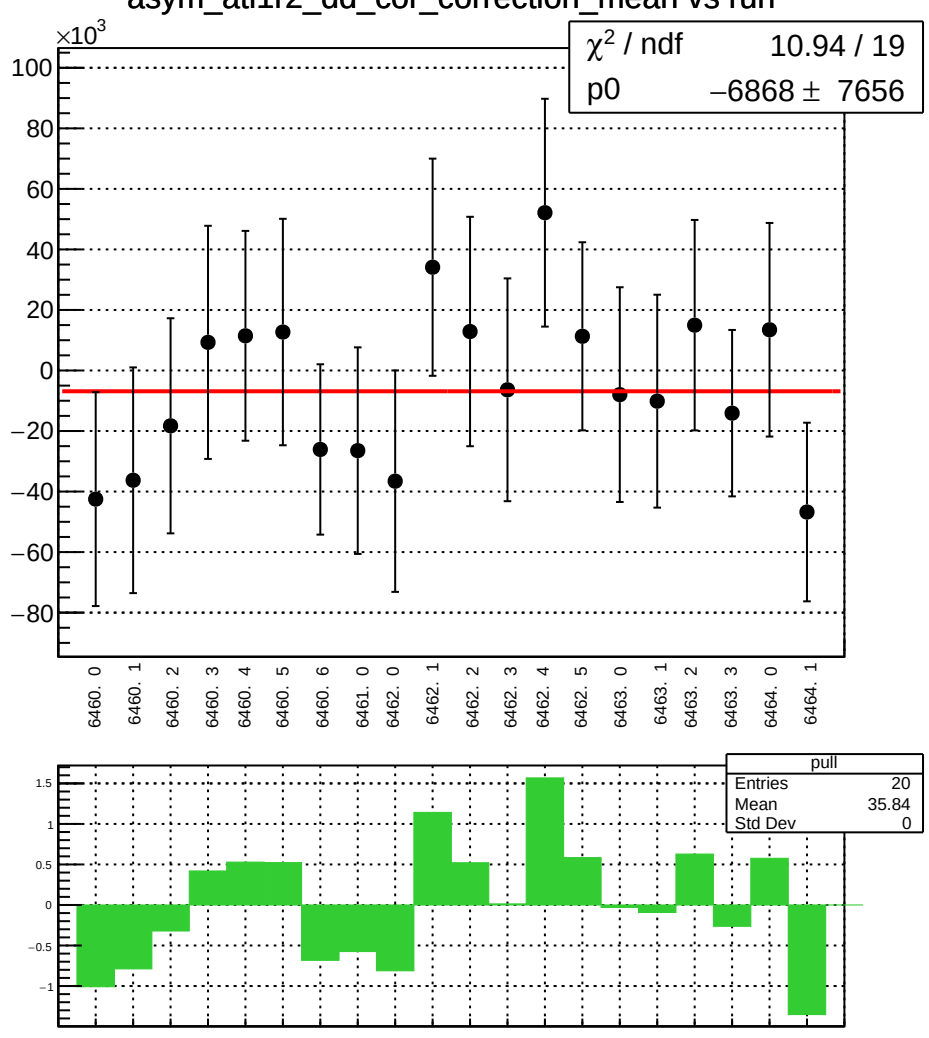

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 377.4 / 19
p0 3445 ± 5.414
3700
3600
3500
3400
3300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

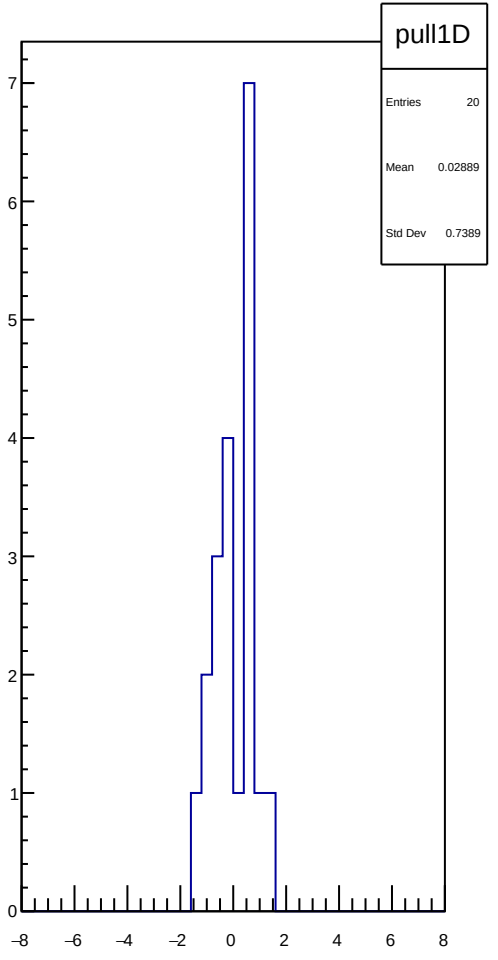

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 18.7 / 19
p0 −7735 ± 3904
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

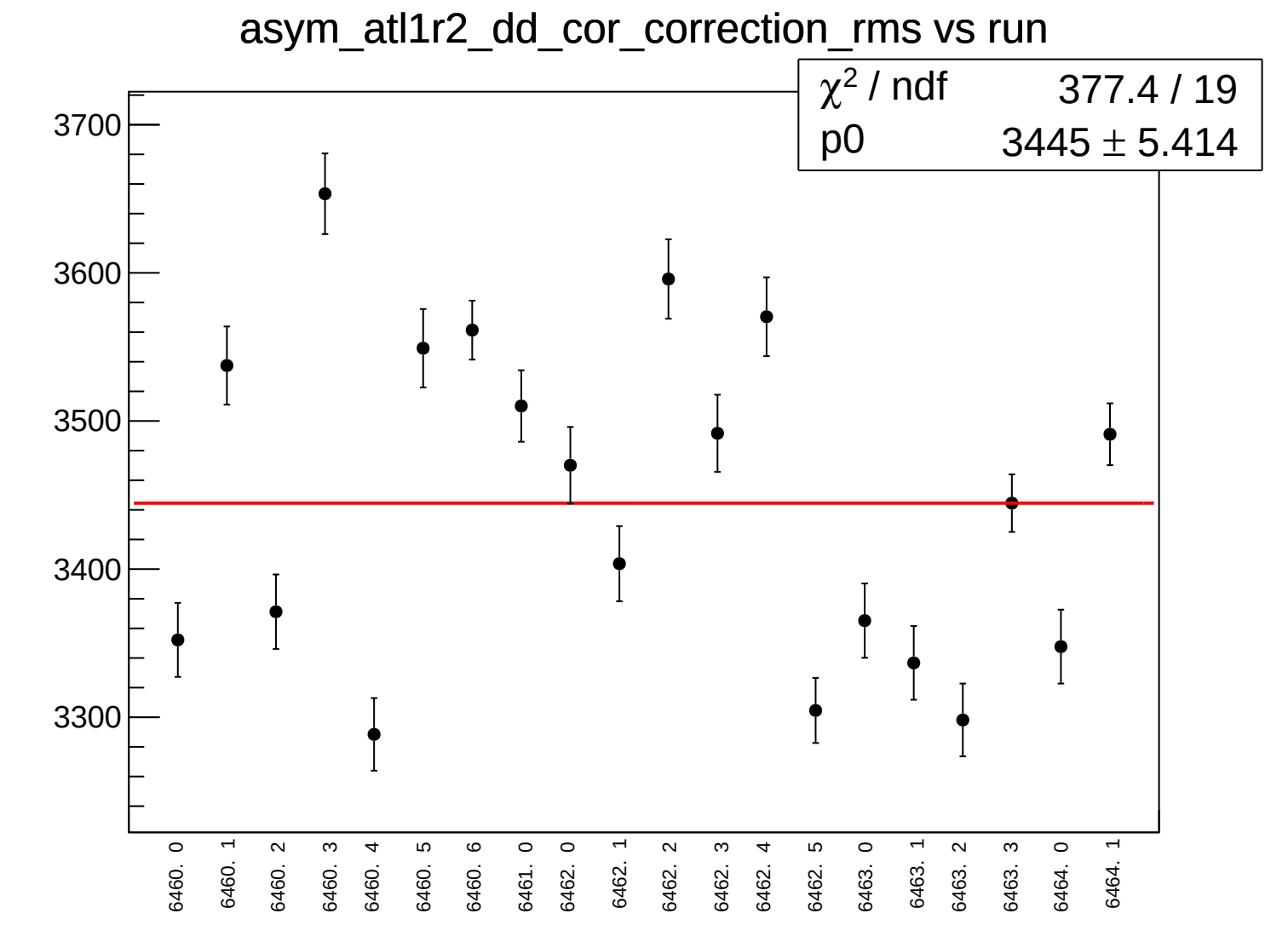

pull
Entries 20
Mean −368.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

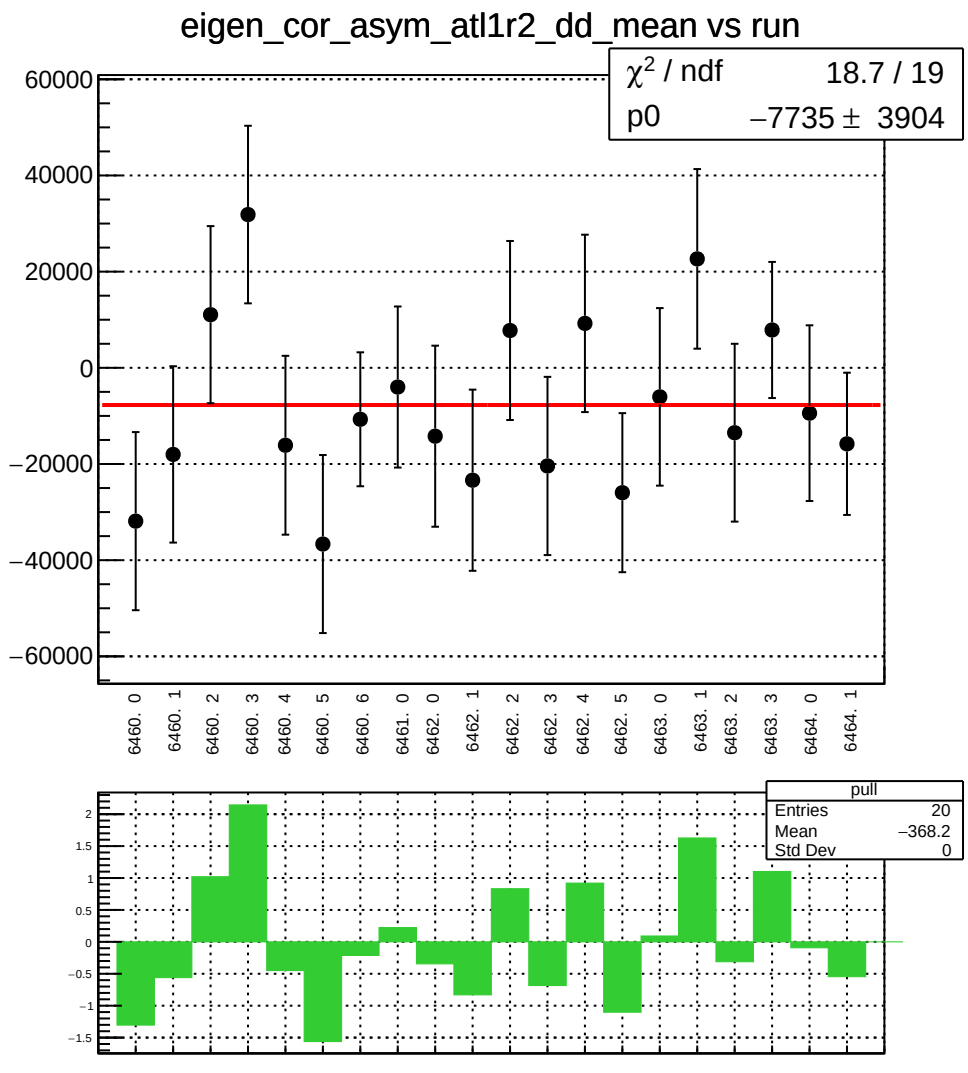

pull1D
Entries 20
Mean −0.001804
Std Dev 0.9669
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

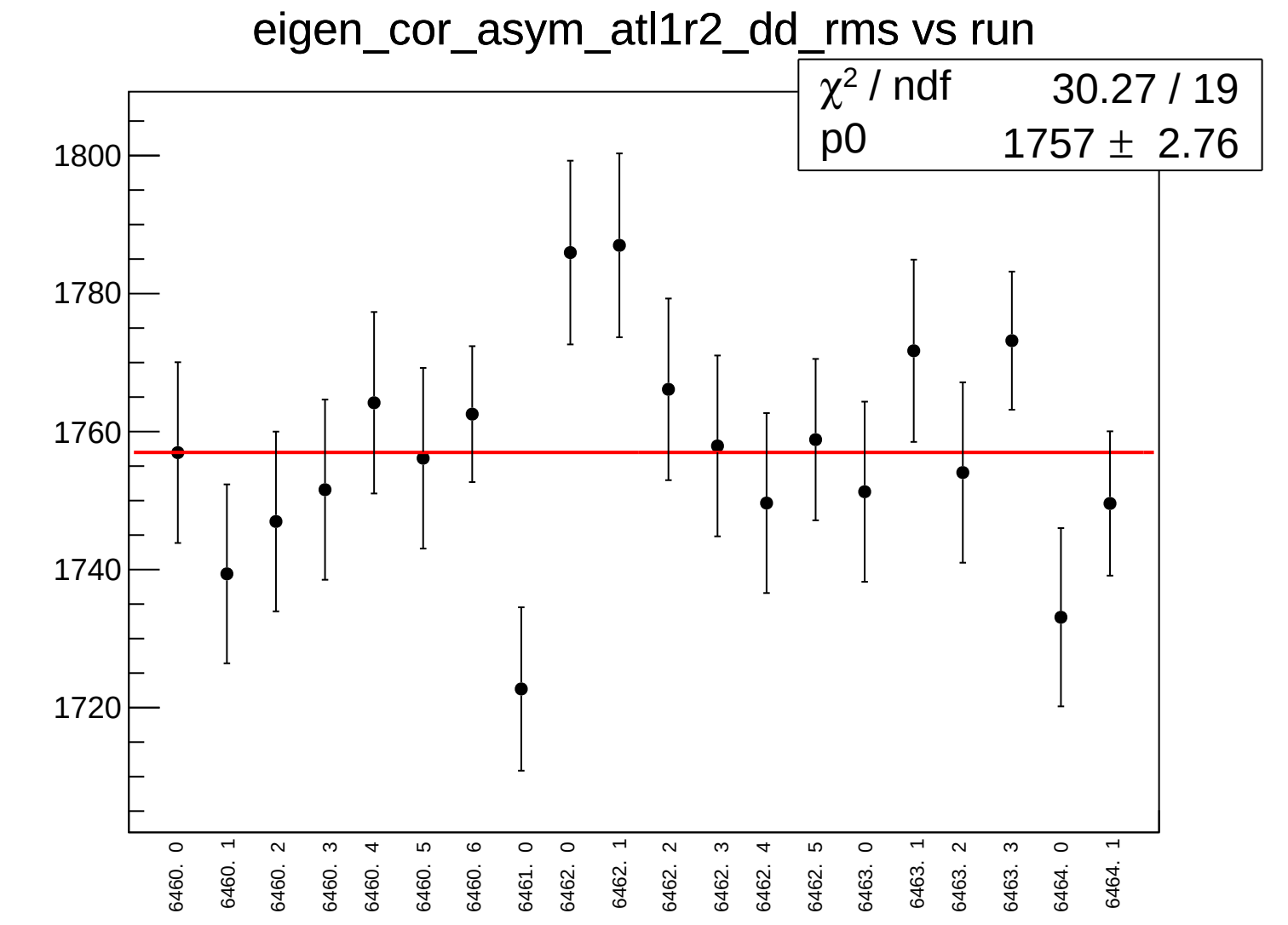

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 30.27 / 19
p0 1757 ± 2.76
1800
1780
1760
1740
1720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

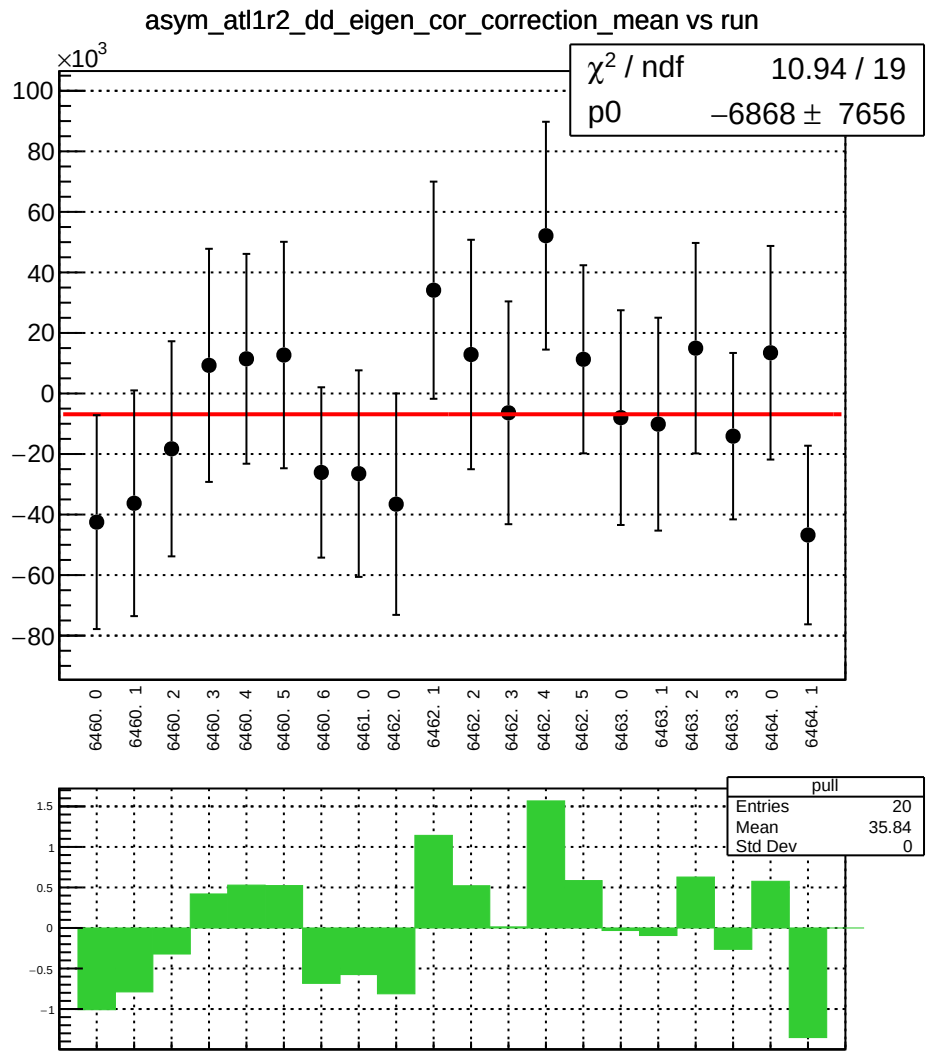

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 10.94 / 19
p0 −6868 ± 7656
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 35.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1

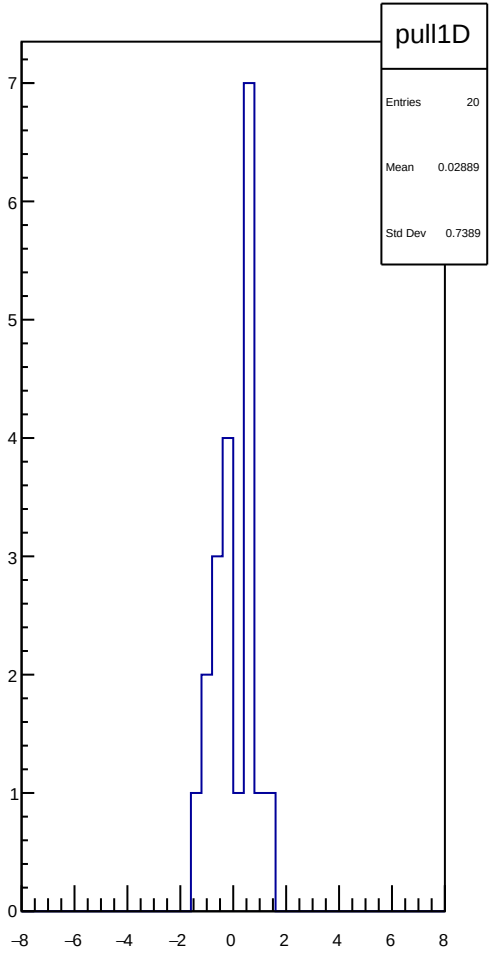

pull1D
Entries 20
Mean 0.02889
Std Dev 0.7389
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

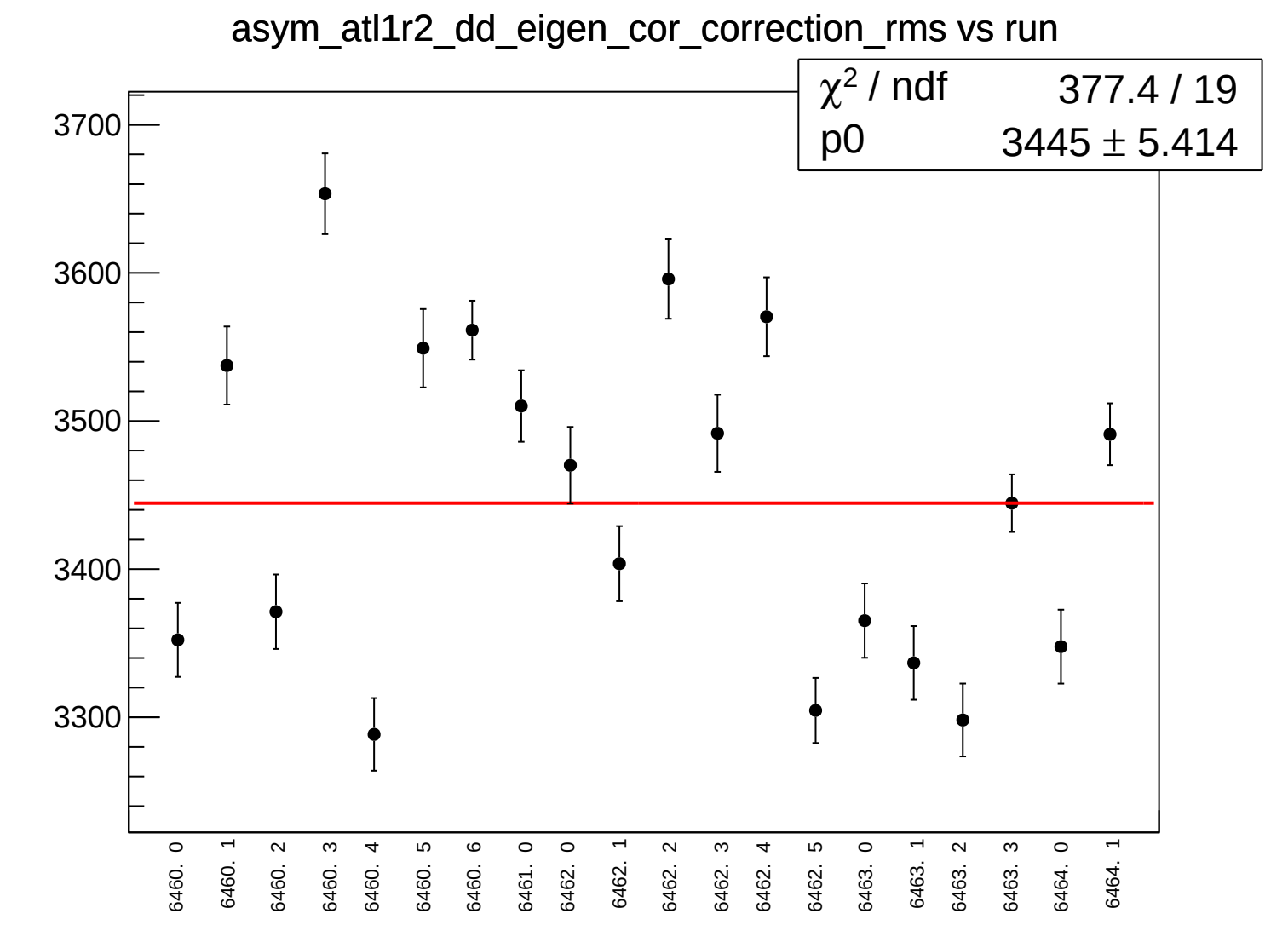

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 377.4 / 19
p0 3445 ± 5.414
3700
3600
3500
3400
3300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

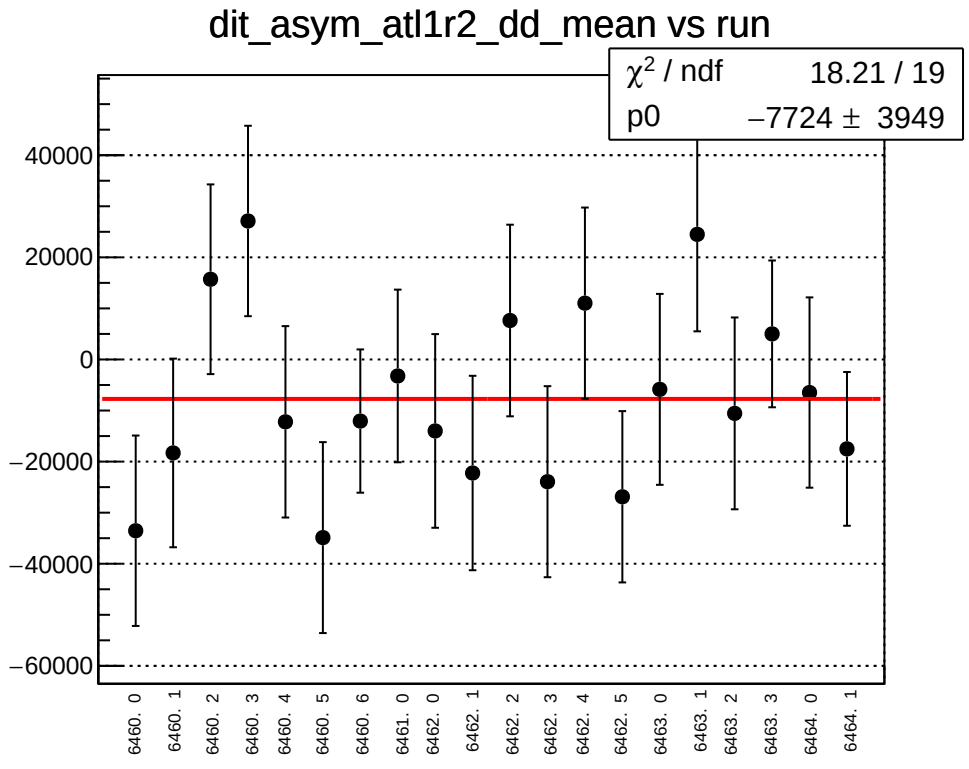

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 18.7 / 19
p0 −7735 ± 3904
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −368.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.001804
Std Dev 0.9669
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

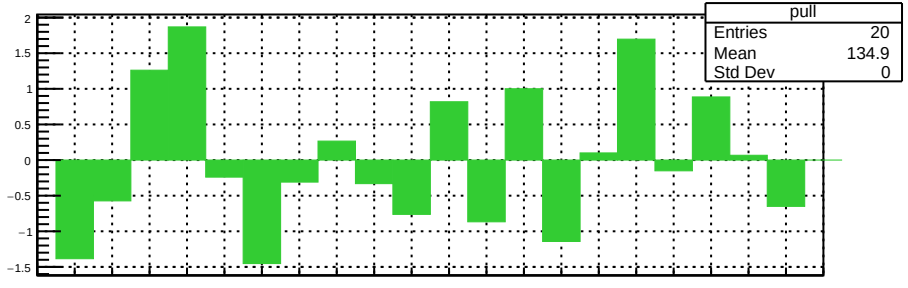

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 30.27 / 19
p0 1757 ± 2.76
1800
1780
1760
1740
1720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

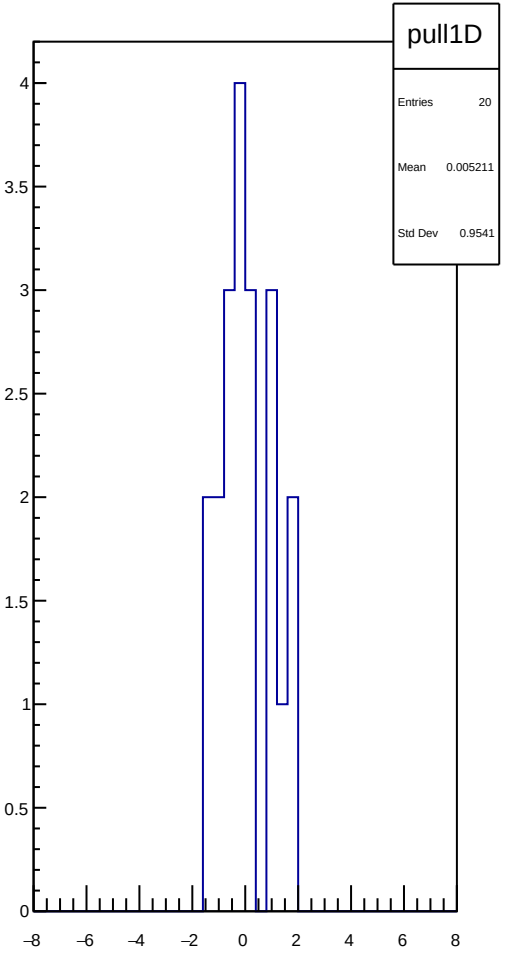

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 10.94 / 19
p0 −6868 ± 7656
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 35.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1

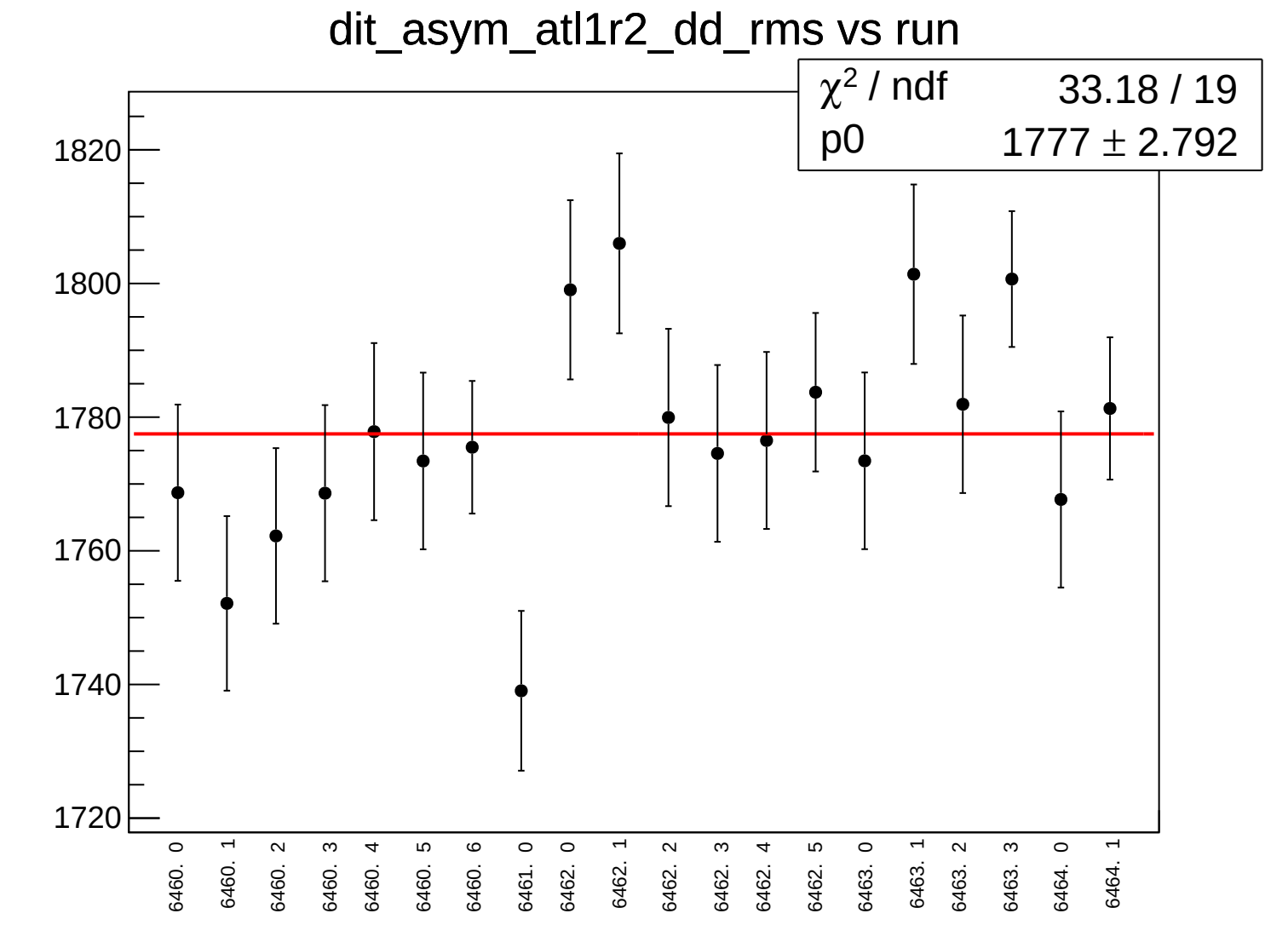

pull1D
Entries 20
Mean 0.02889
Std Dev 0.7389
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

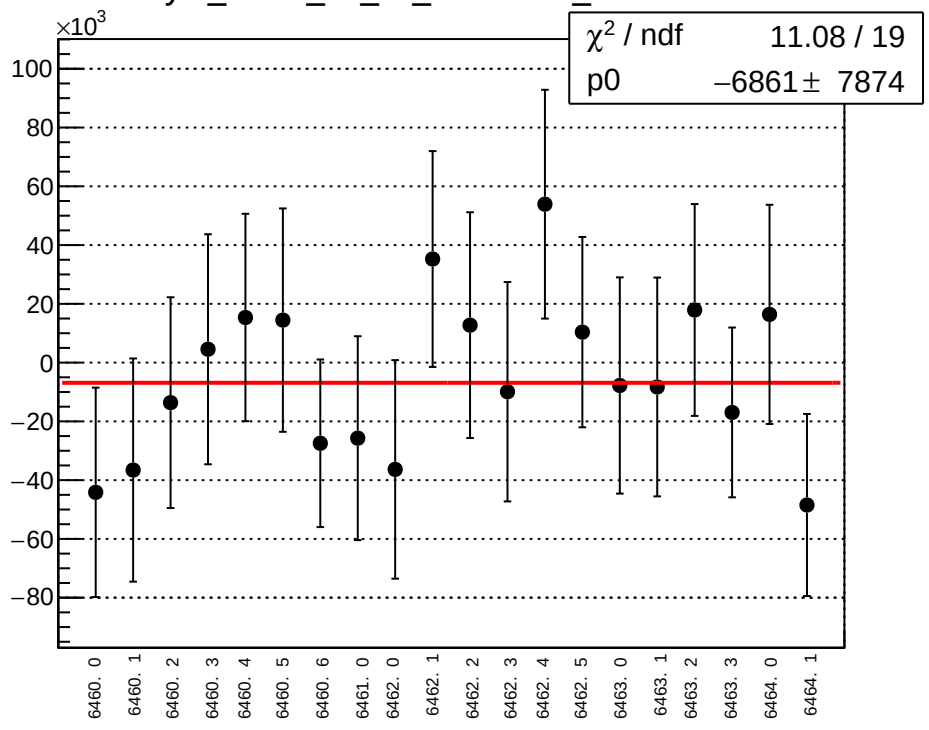

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 377.4 / 19
p0 3445 ± 5.414
3700
3600
3500
3400
3300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

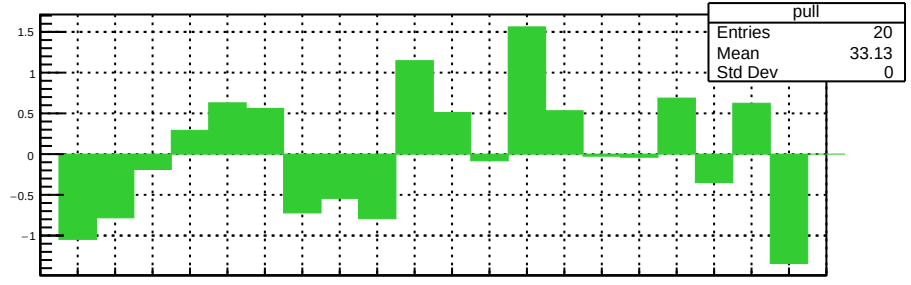

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 18.21 / 19
p0 −7724 ± 3949
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

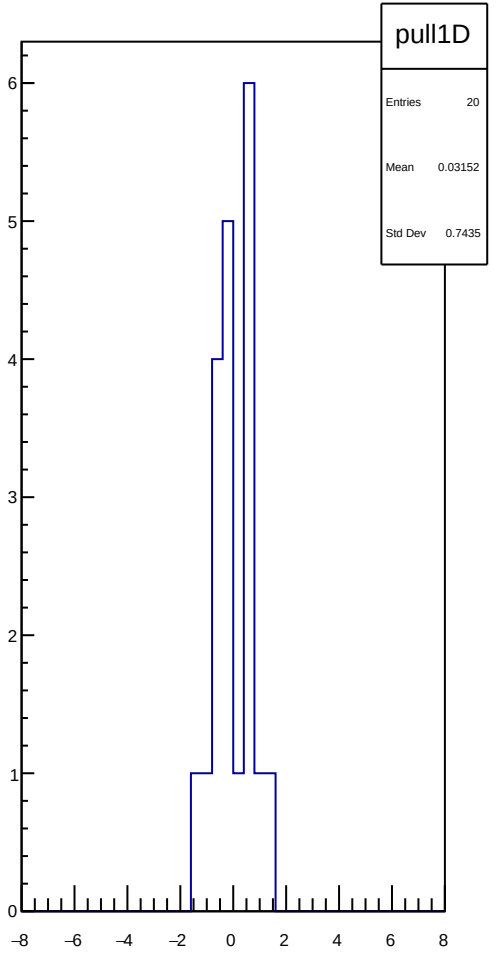

pull
Entries 20
Mean 134.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

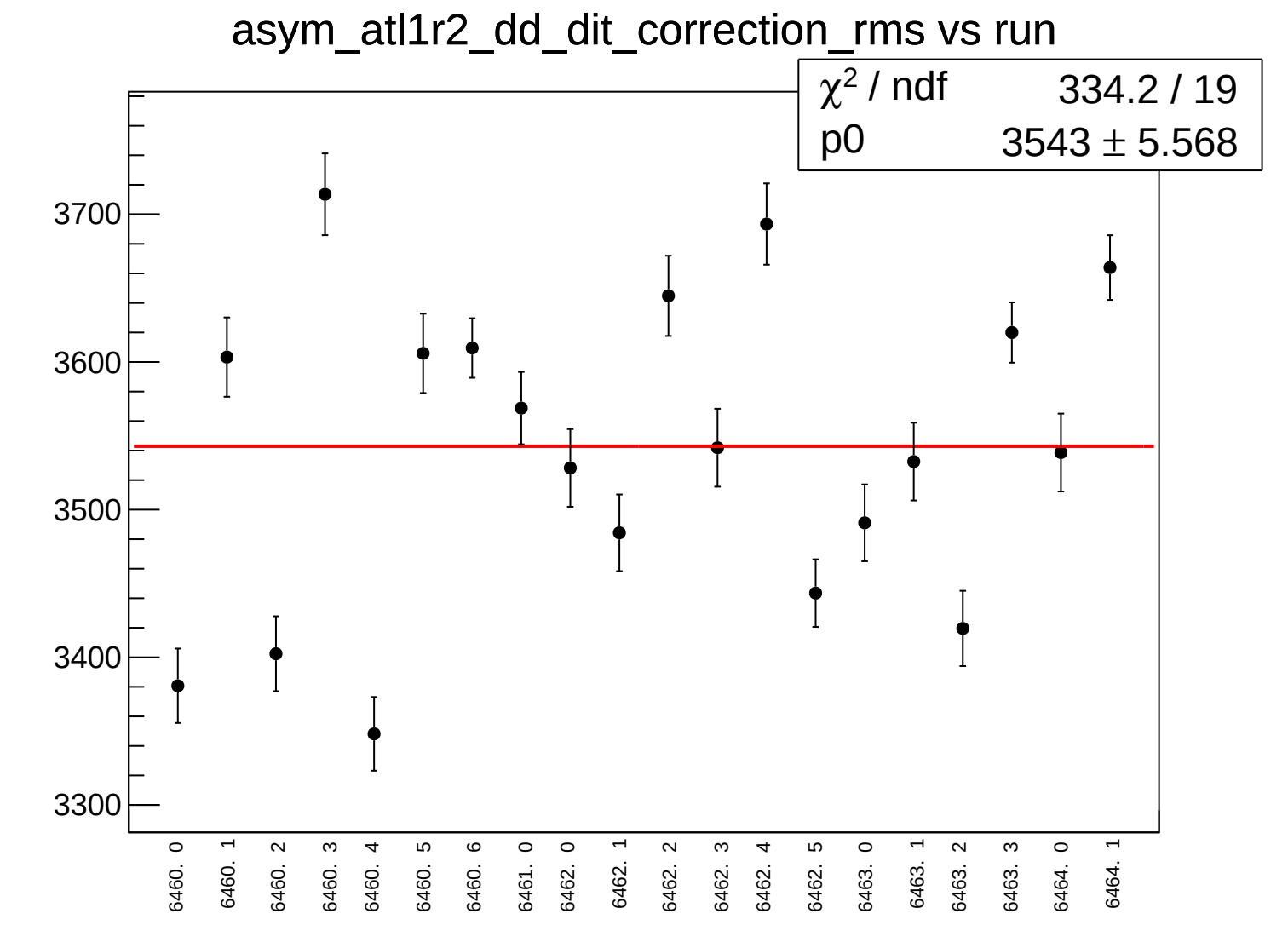

pull1D
Entries 20
Mean 0.005211
Std Dev 0.9541
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

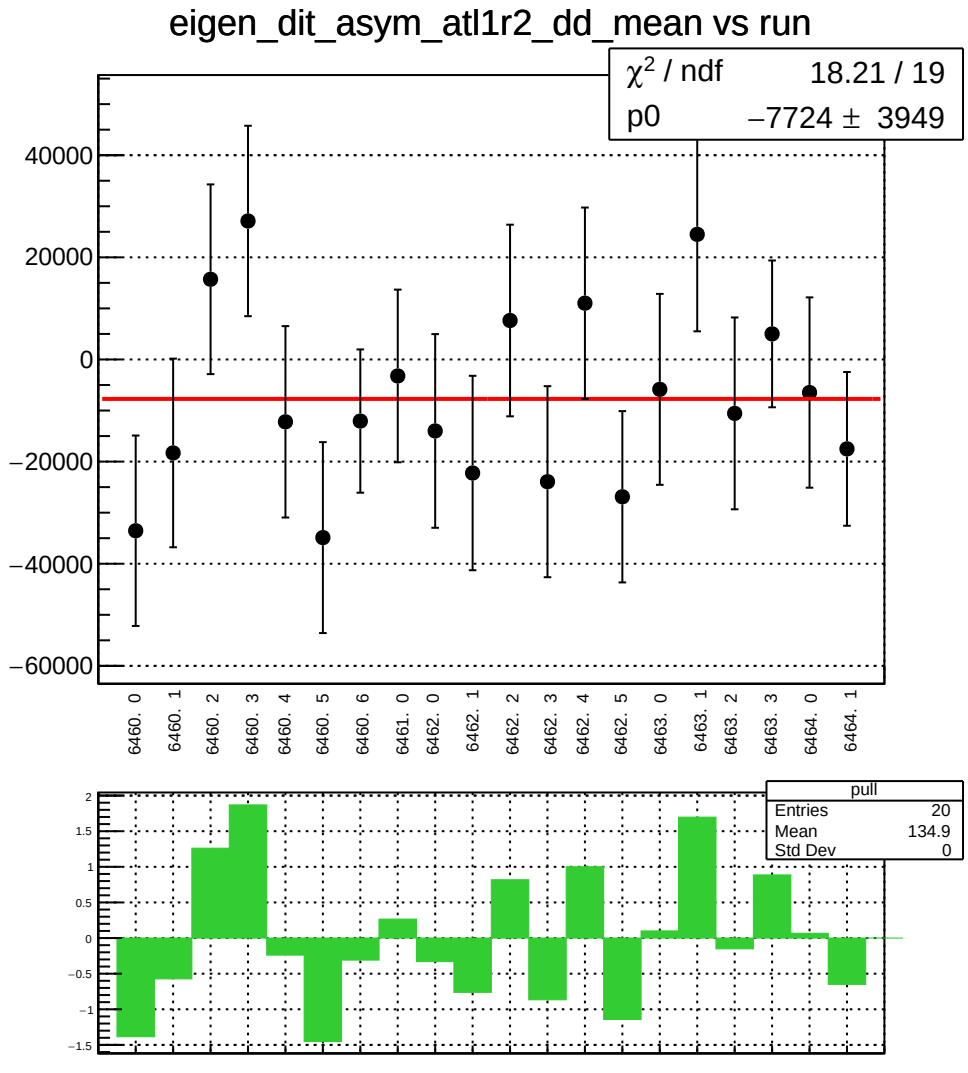

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 33.18 / 19
p0 1777 ± 2.792
1820
1800
1780
1760
1740
1720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

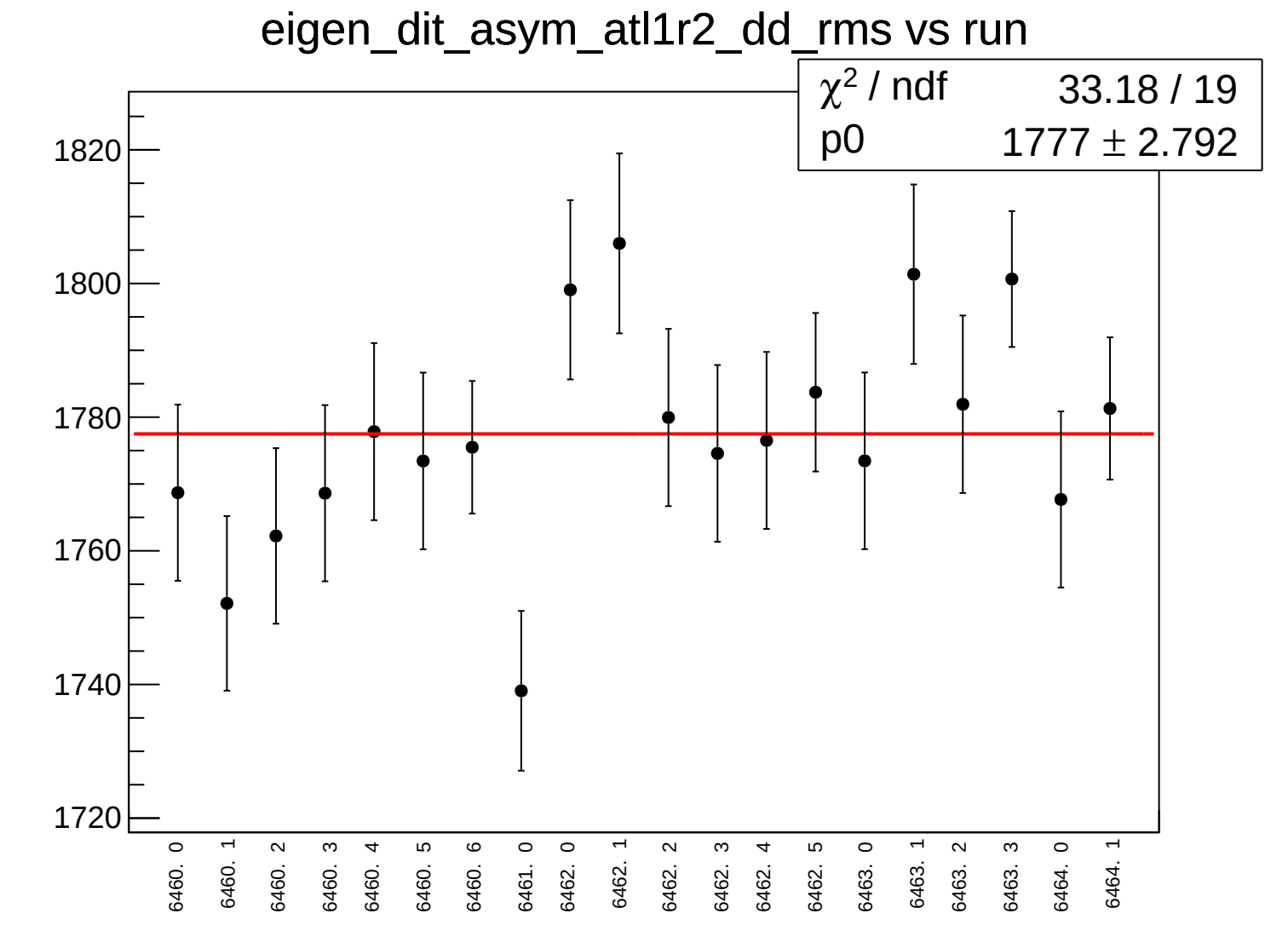

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 11.08 / 19
p0 −6861 ± 7874
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

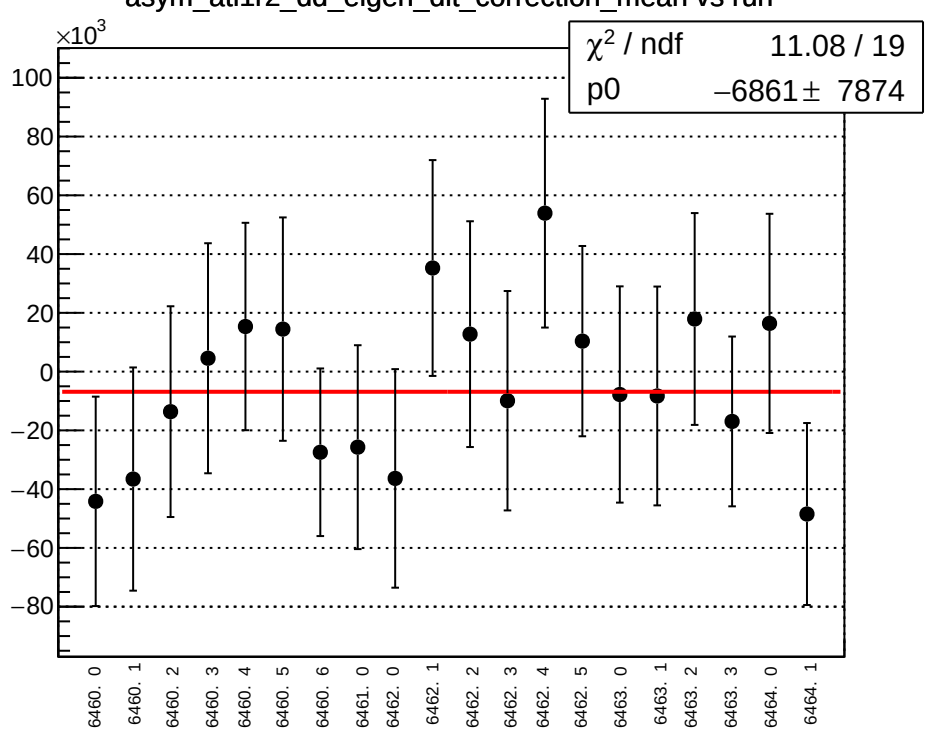

pull
Entries 20
Mean 33.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1

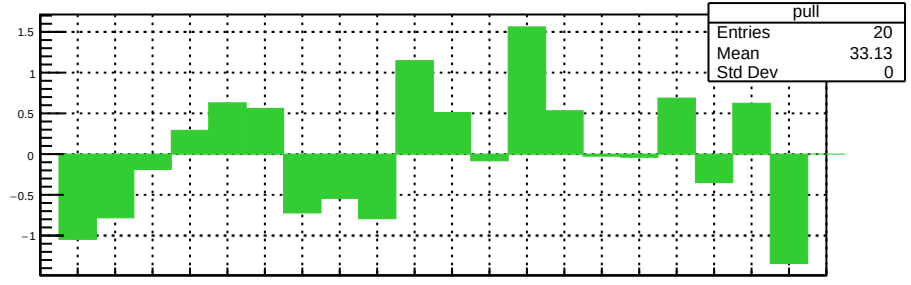

pull1D
Entries 20
Mean 0.03152
Std Dev 0.7435
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

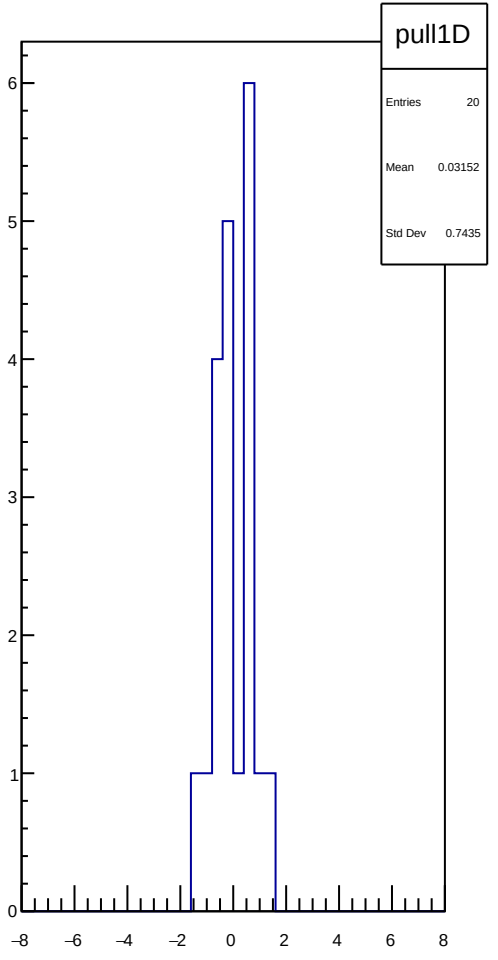

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 334.2 / 19
p0 3543 ± 5.568
3700
3600
3500
3400
3300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

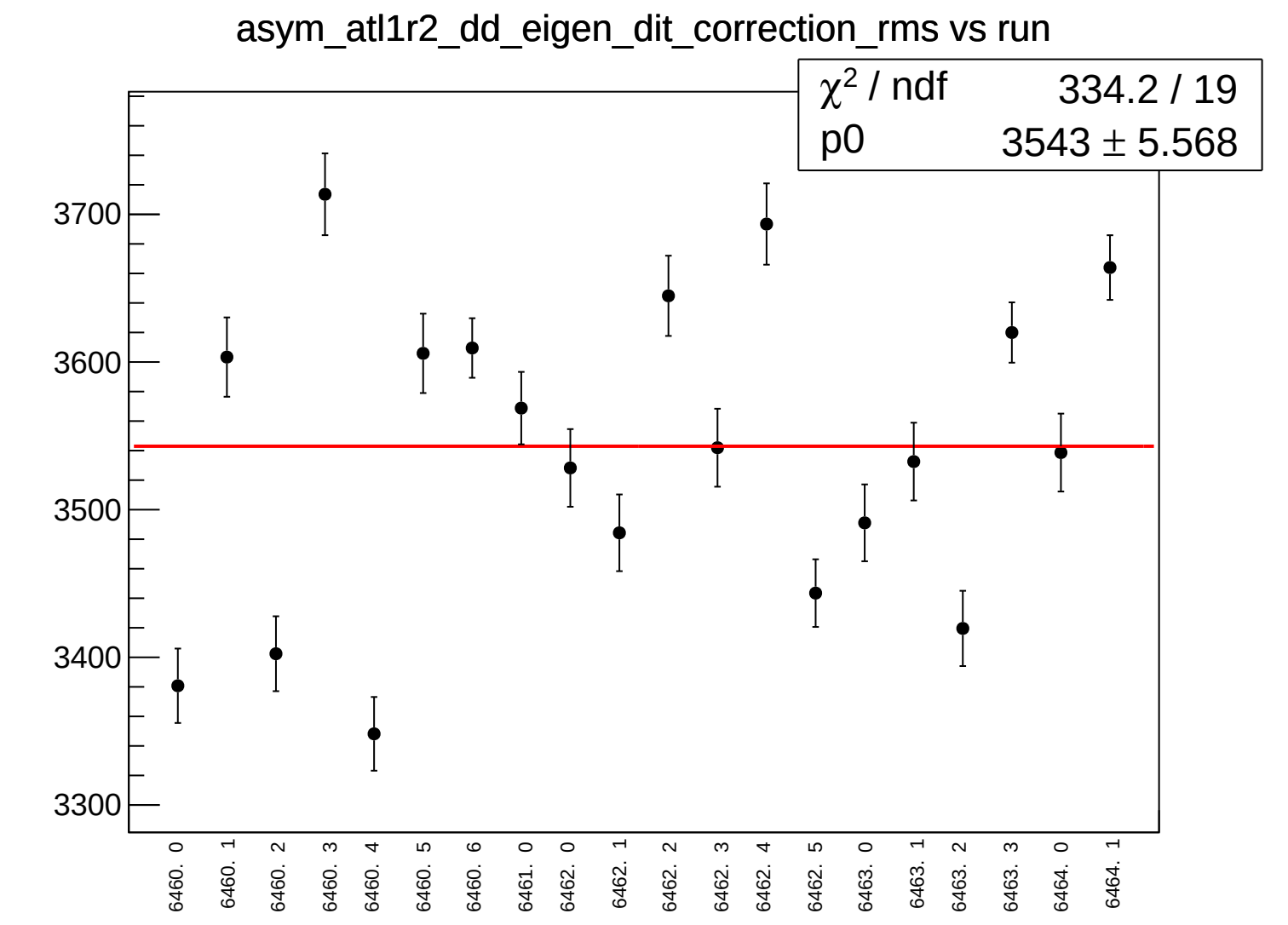

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 18.21 / 19
p0 −7724 ± 3949
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 134.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.005212
Std Dev 0.9541
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

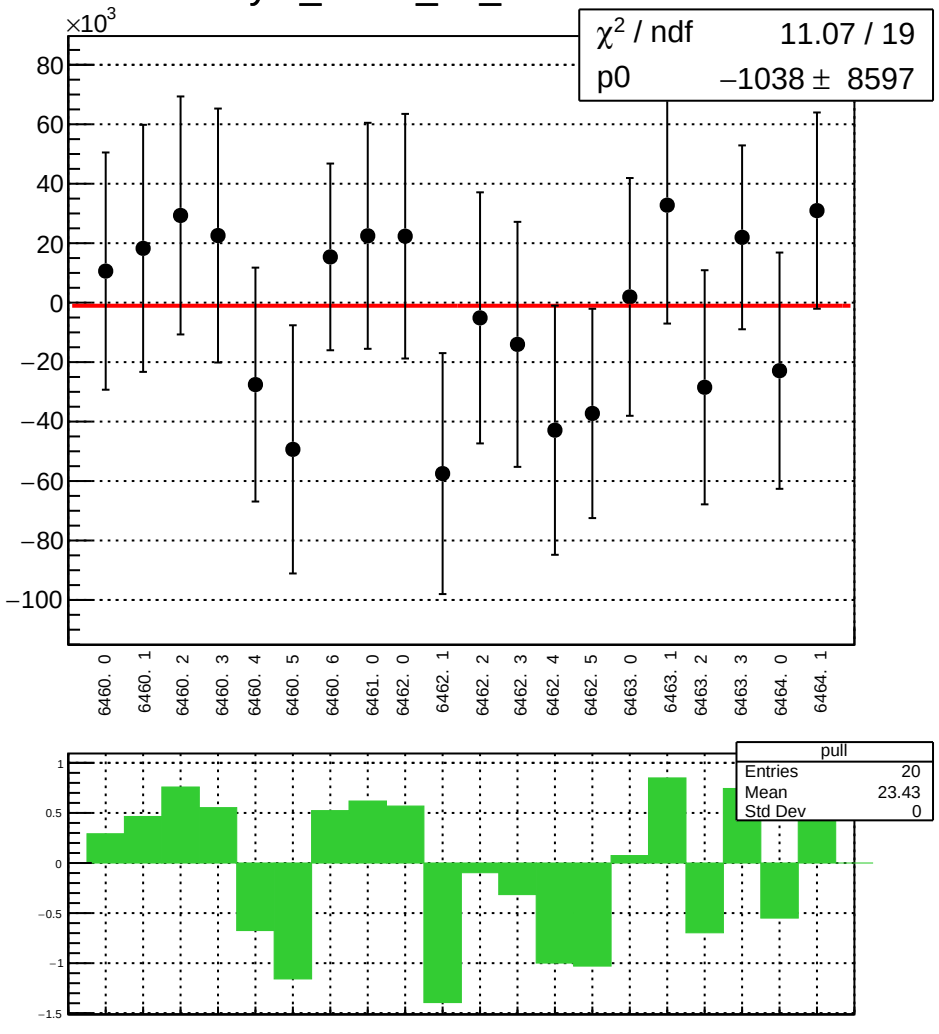

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 33.18 / 19
p0 1777 ± 2.792
1820
1800
1780
1760
1740
1720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

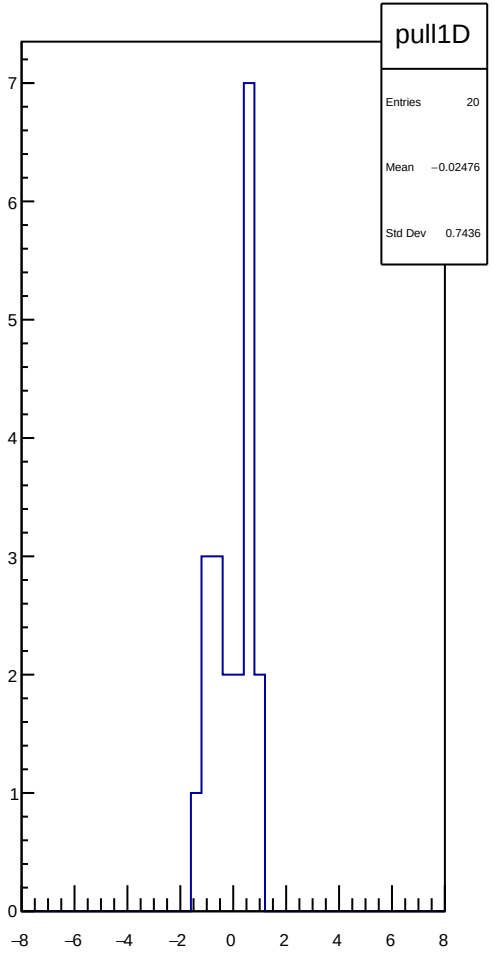

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 11.08 / 19
p0 −6861 ± 7874
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

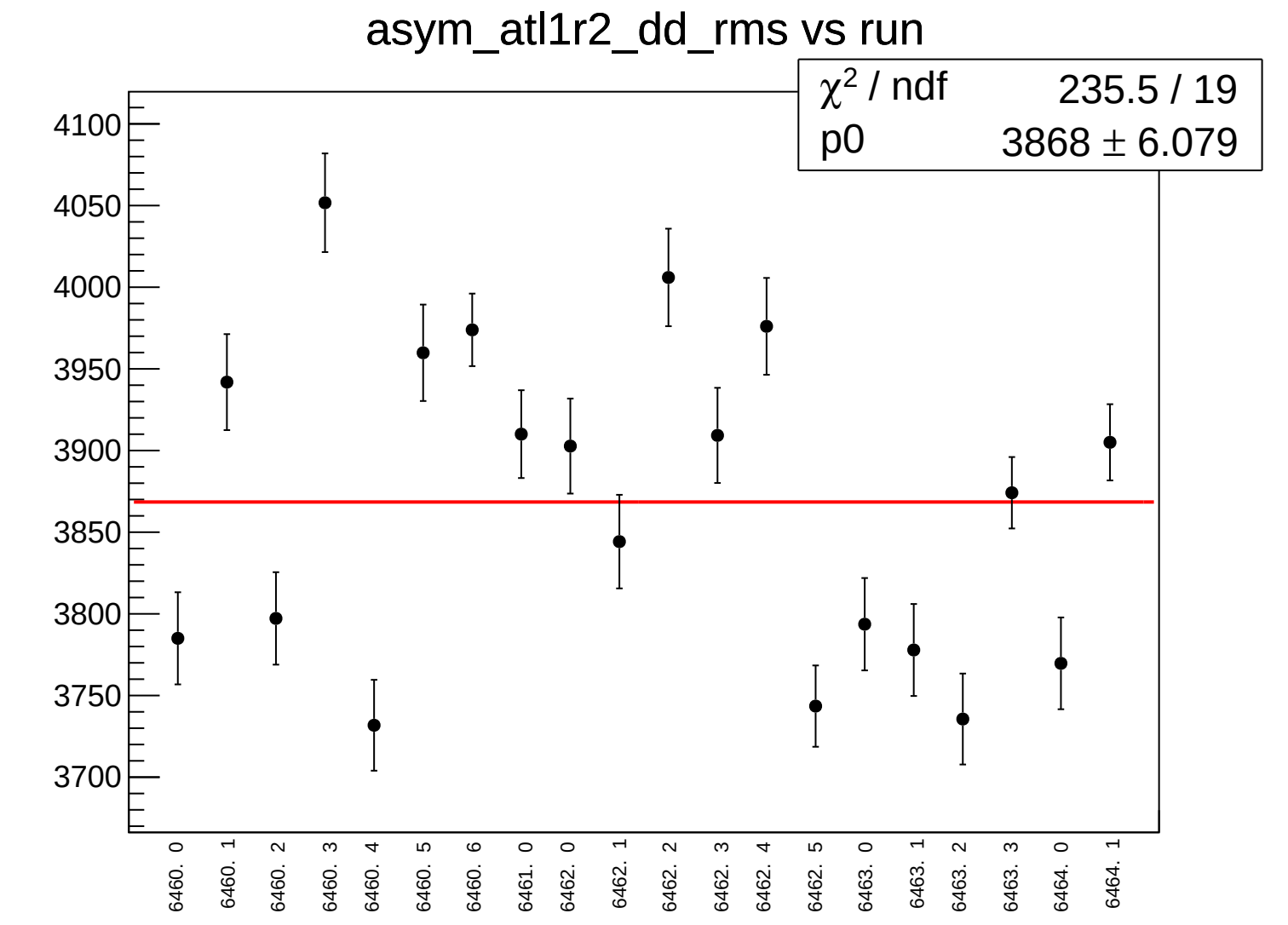

pull
Entries 20
Mean 33.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1

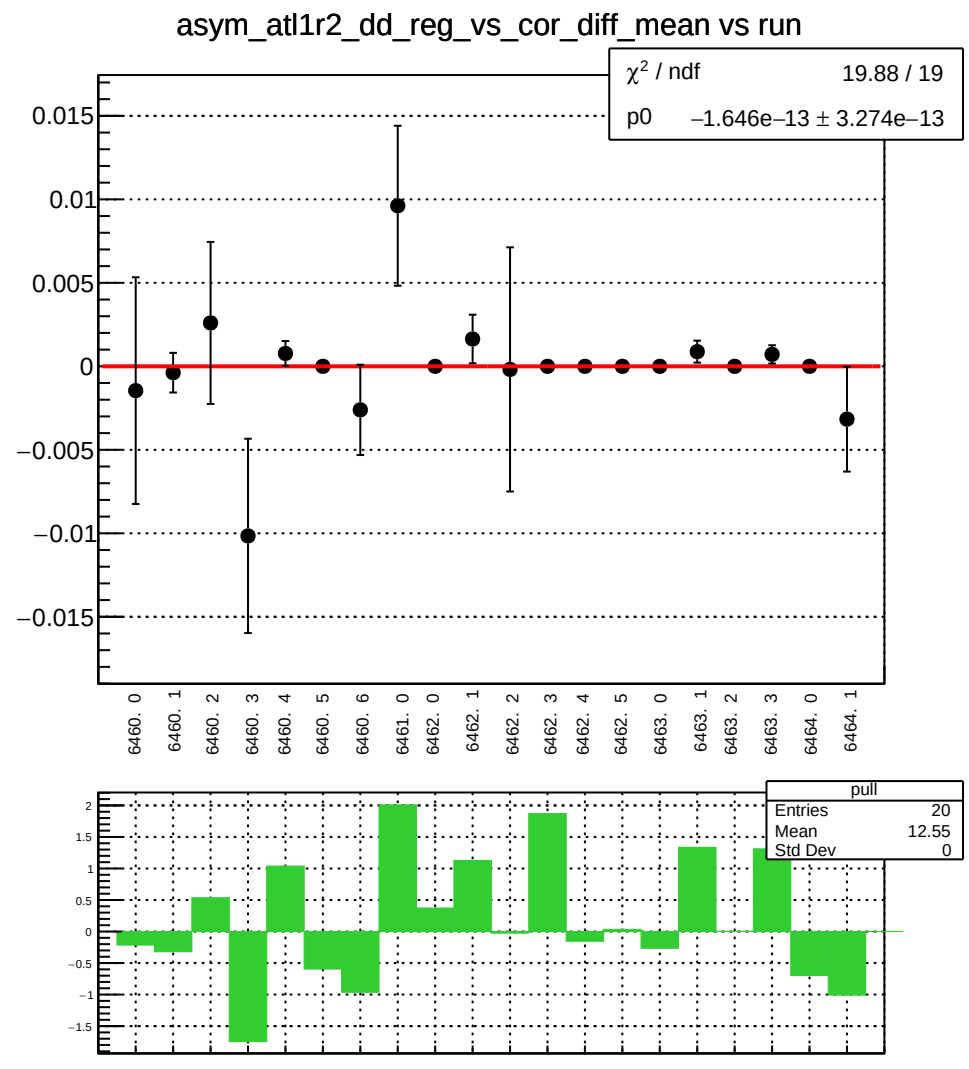

pull1D
Entries 20
Mean 0.03152
Std Dev 0.7435
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

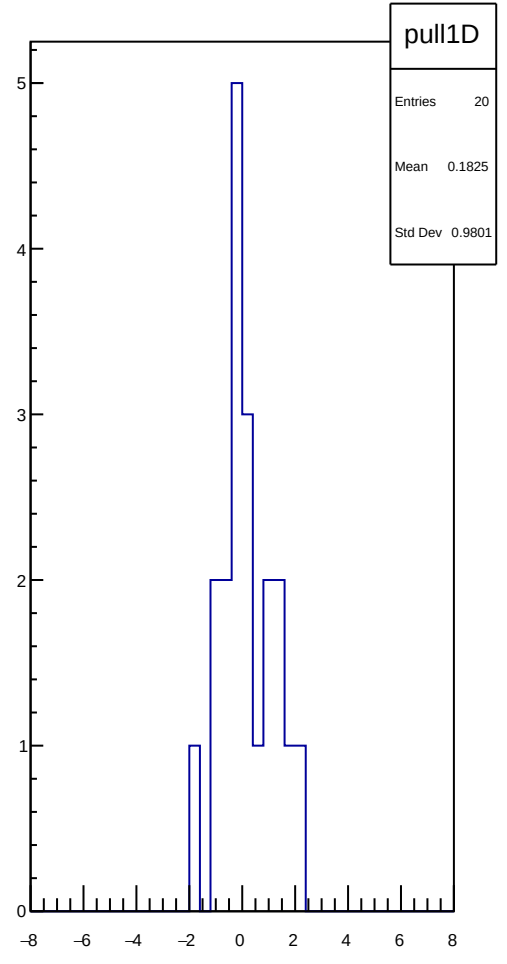

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 334.2 / 19
p0 3543 ± 5.568
3700
3600
3500
3400
3300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

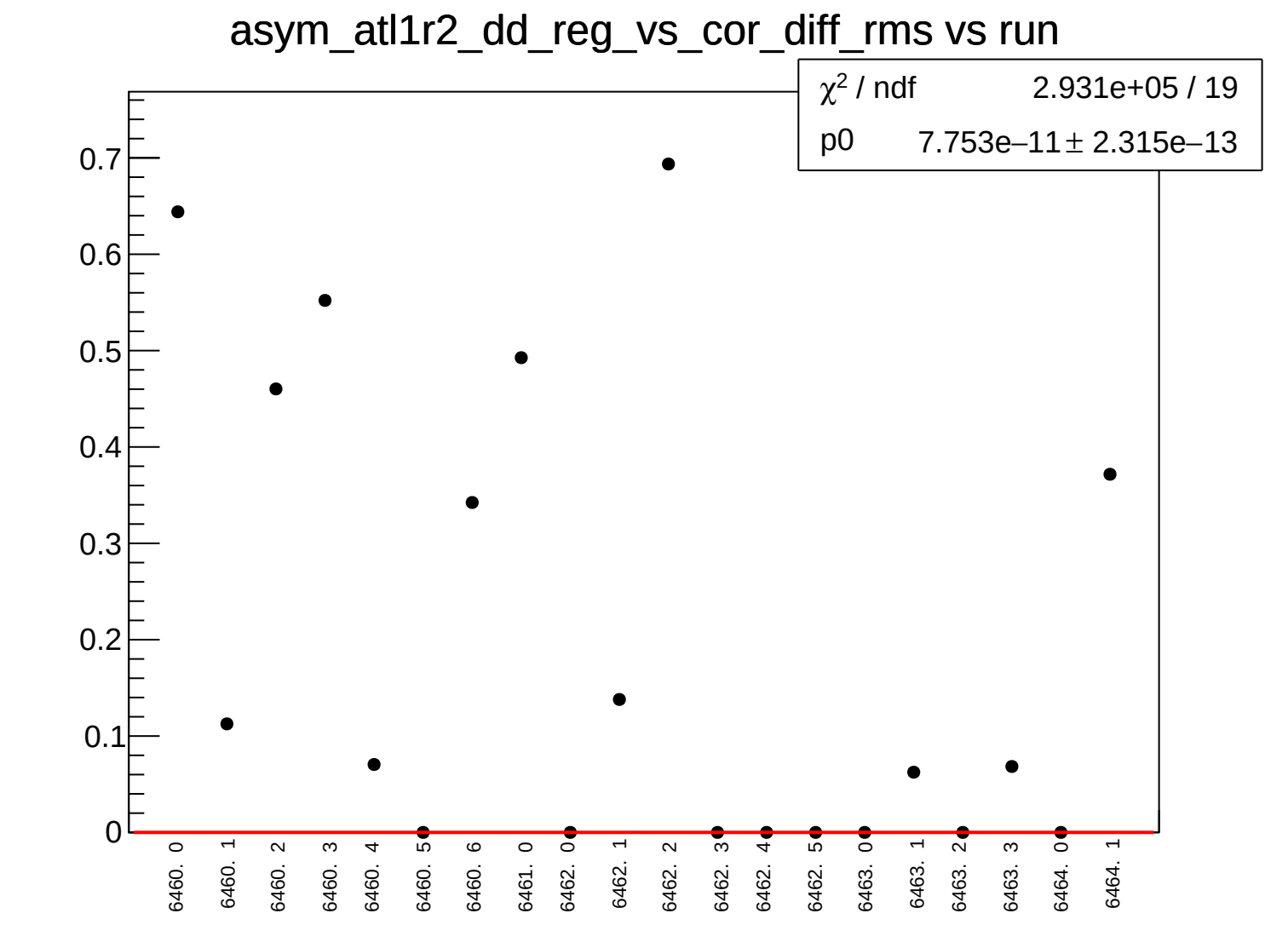

asym_atl1r2_dd_mean vs run
χ² / ndf 11.07 / 19
p0 −1038 ± 8597
×10³
80
60
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.43
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

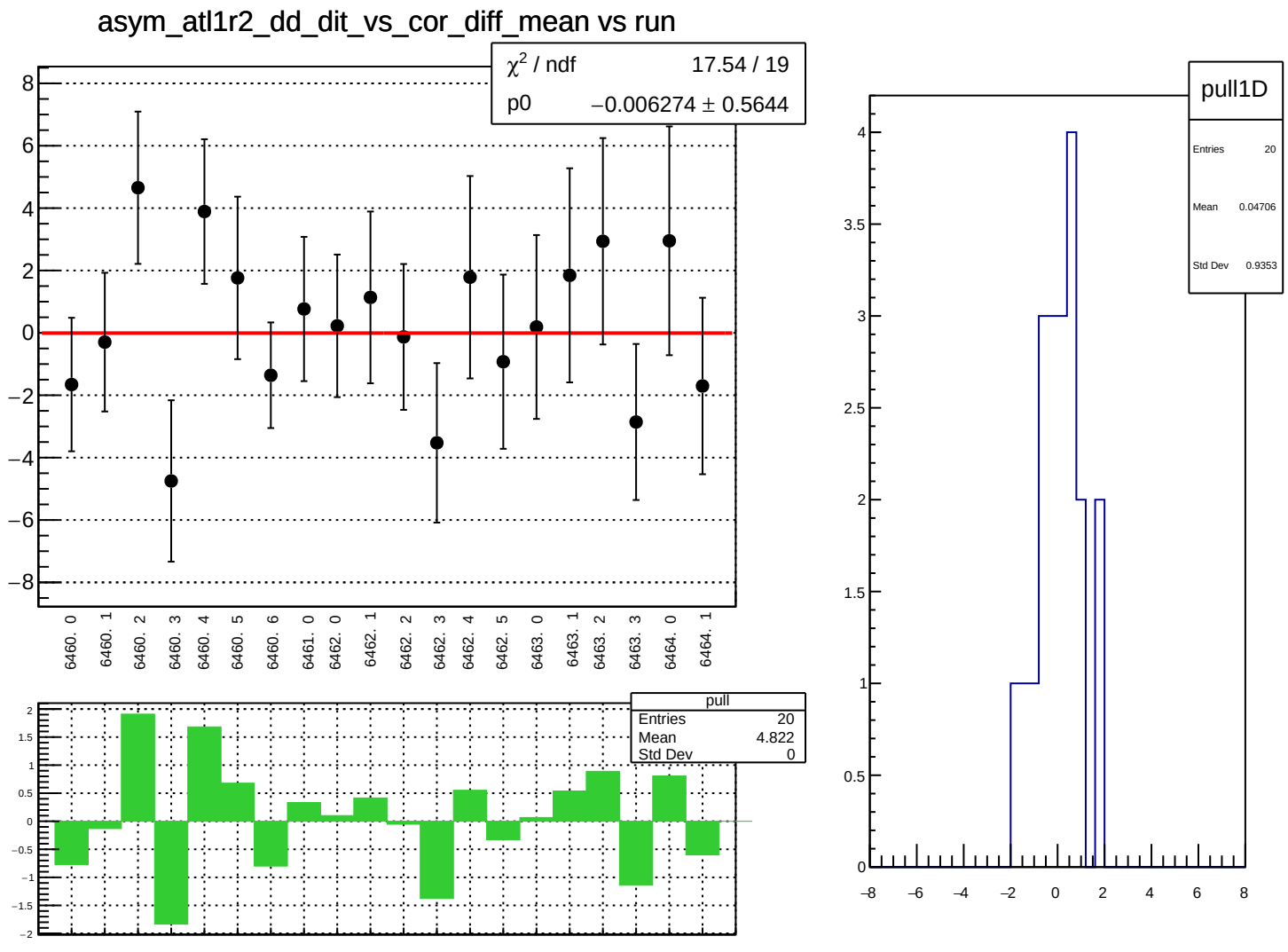

pull1D
Entries 20
Mean −0.02476
Std Dev 0.7436
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

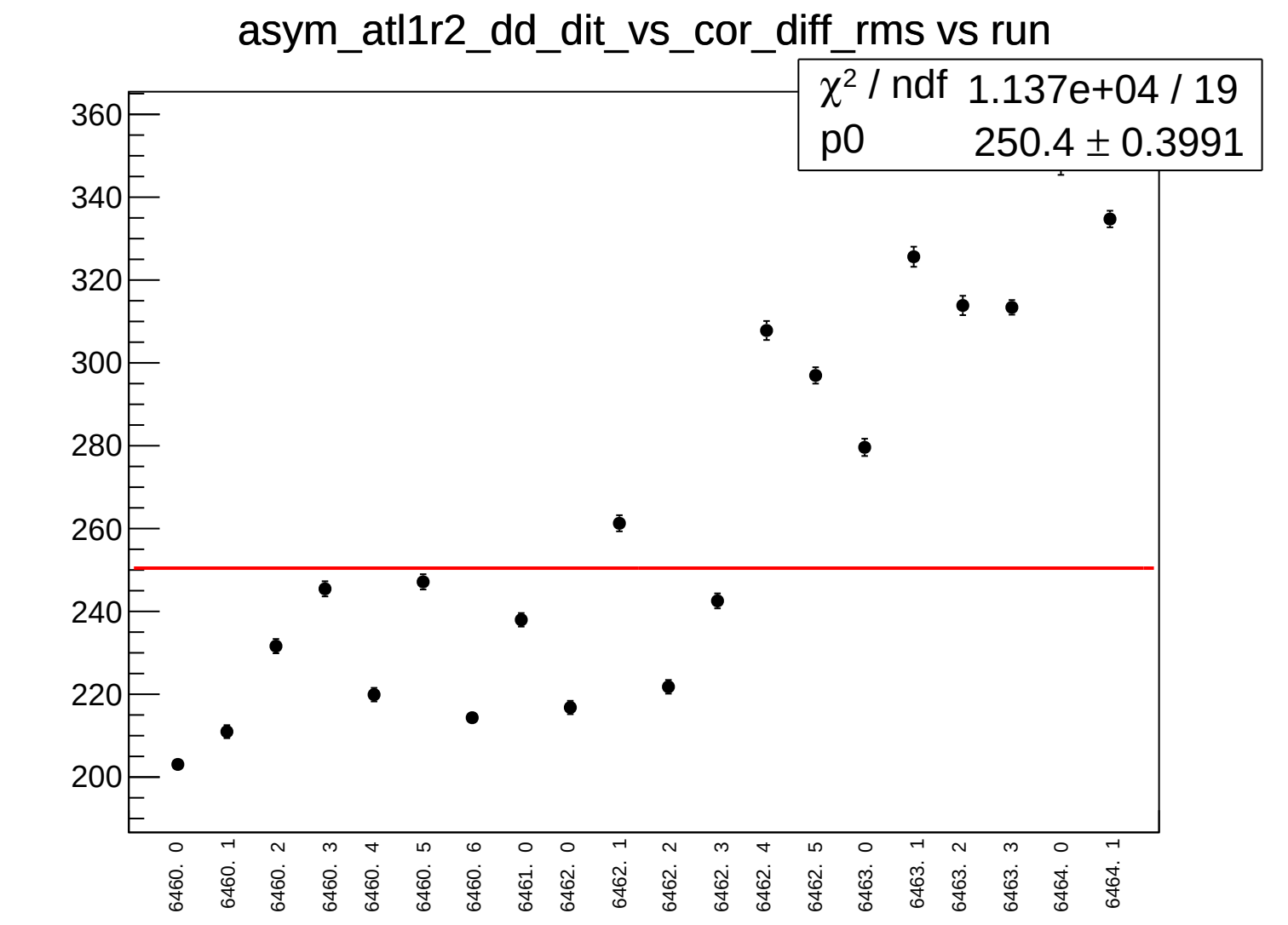

asym_atl1r2_dd_rms vs run
χ² / ndf 235.5 / 19
p0 3868 ± 6.079
4100
4050
4000
3950
3900
3850
3800
3750
3700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

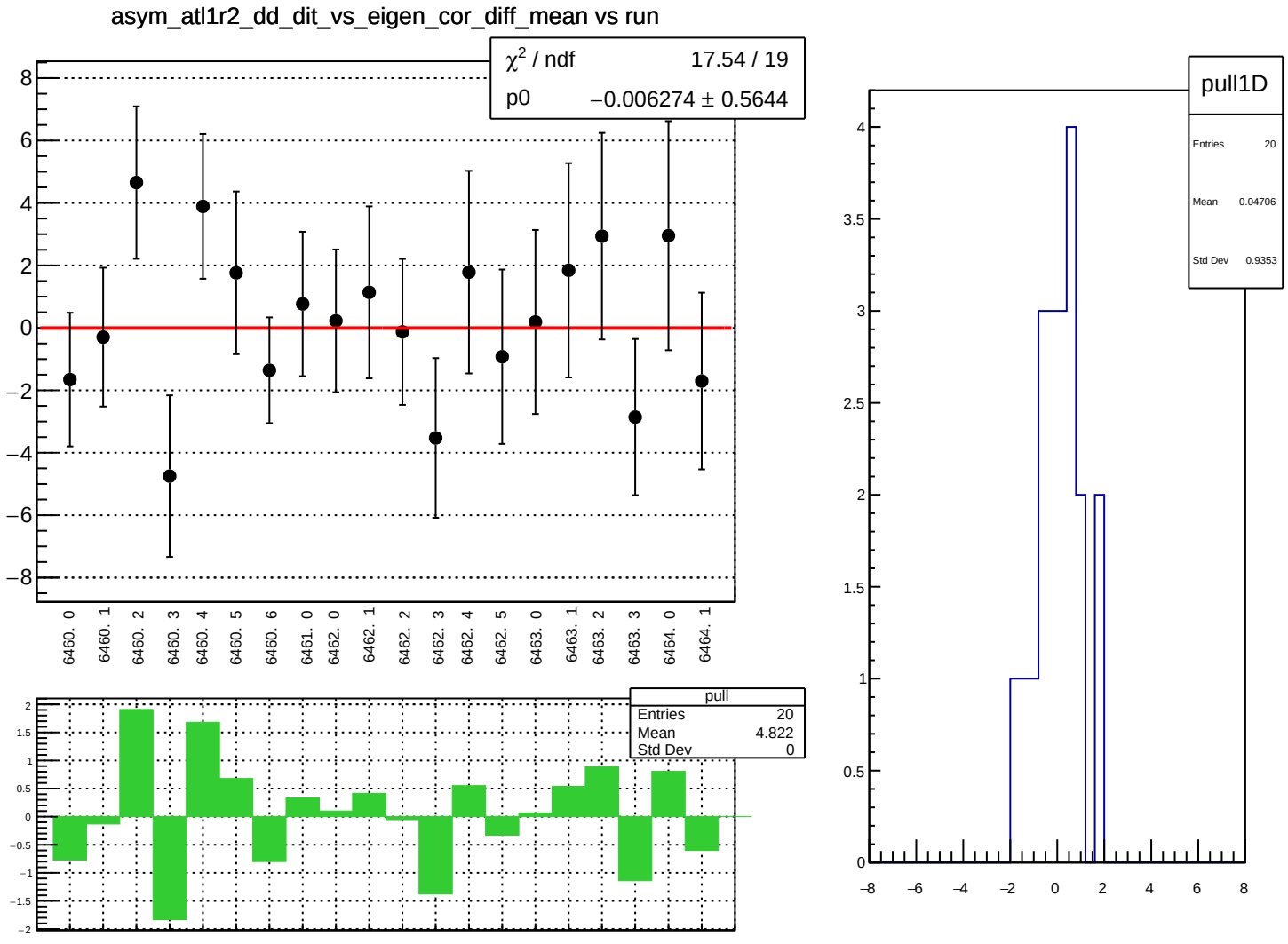

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 19.88 / 19
p0 −1.646e−13 ± 3.274e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

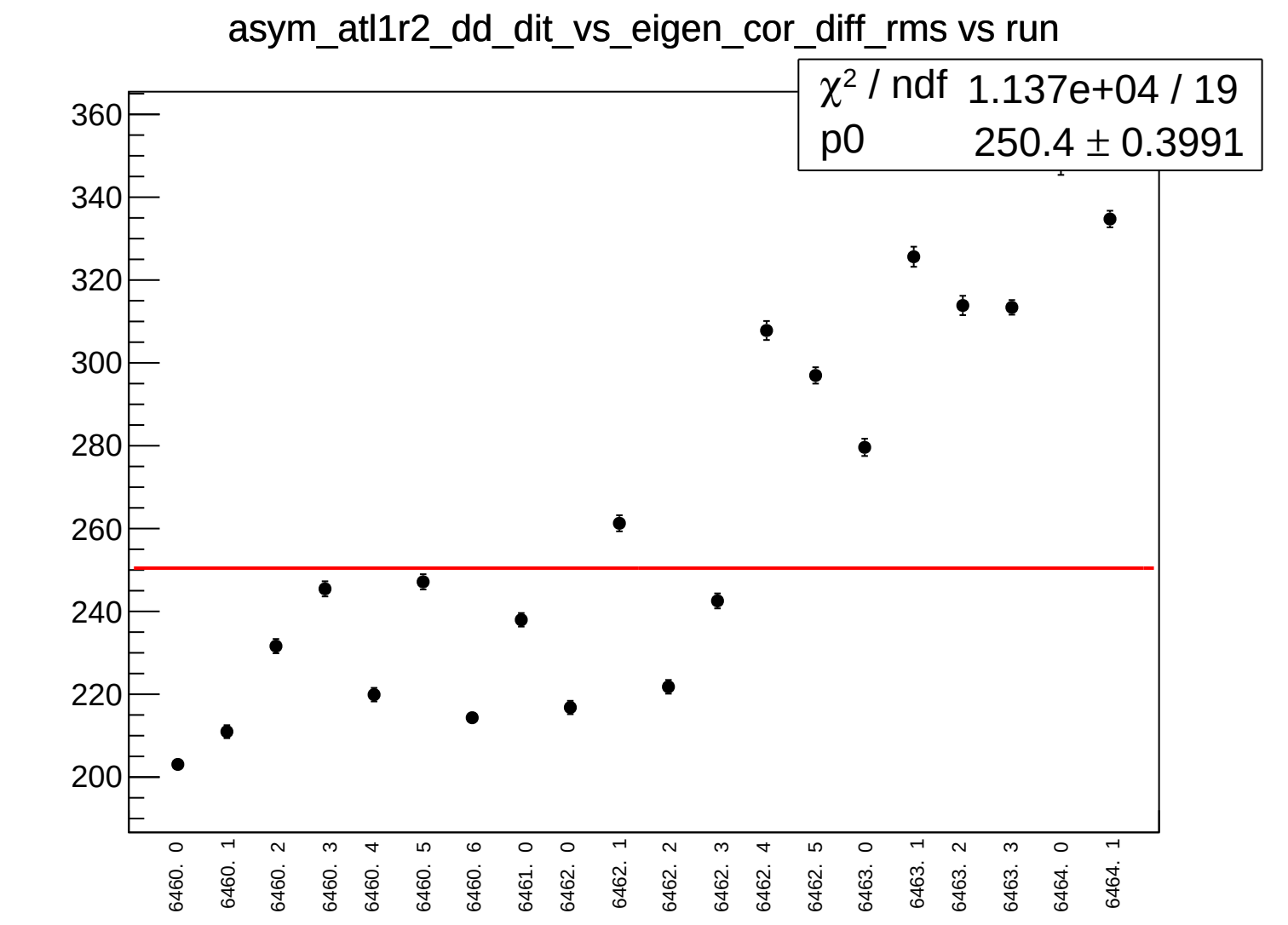

pull1D
Entries 20
Mean 0.1825
Std Dev 0.9801
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

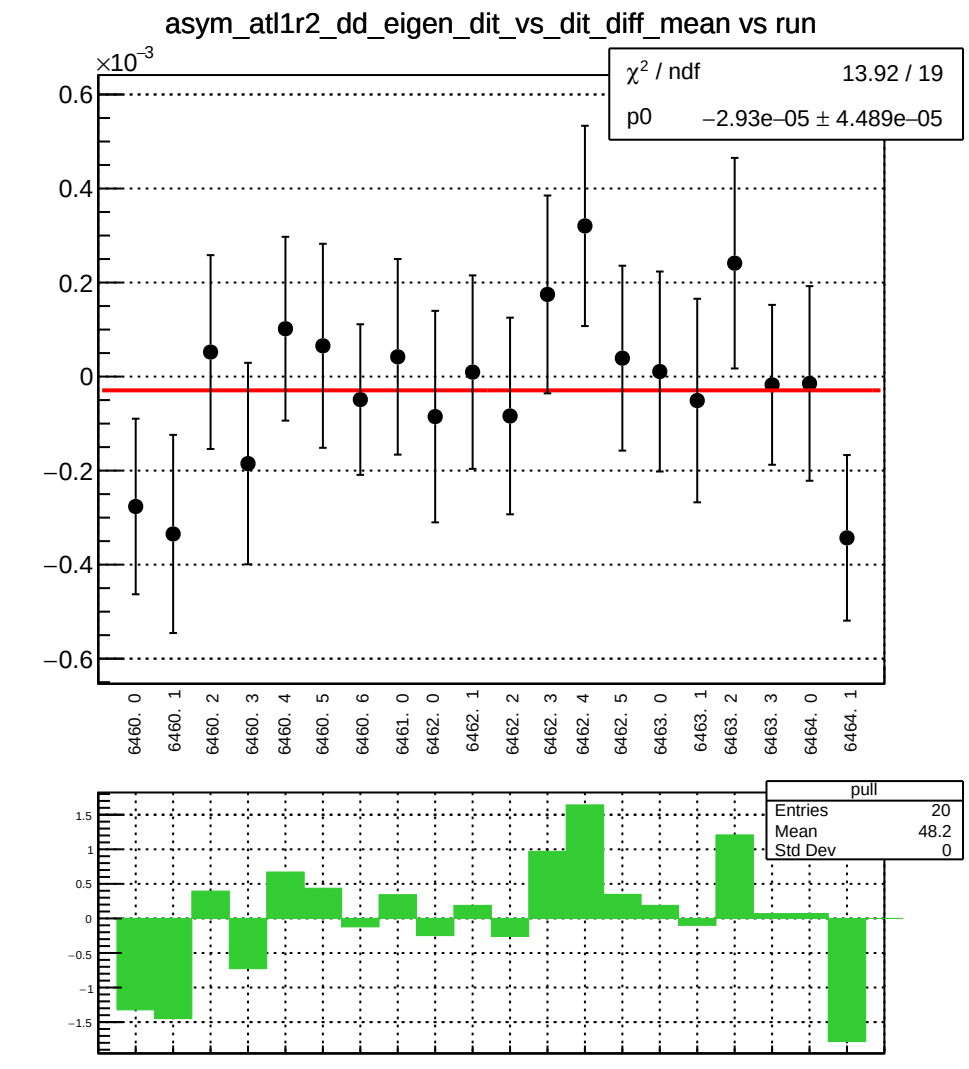

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.931e+05 / 19
p0 7.753e−11 ± 2.315e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

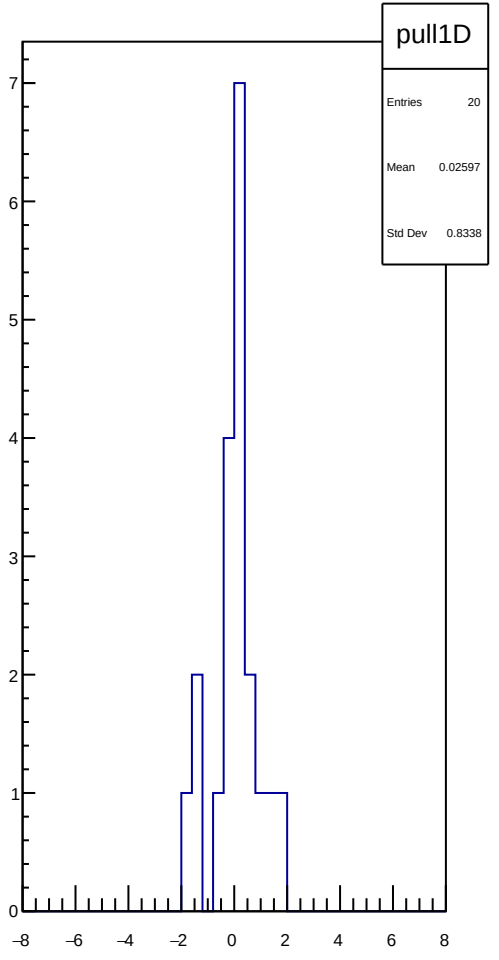

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 17.54 / 19
p0 −0.006274 ± 0.5644
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.822
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.04706
Std Dev 0.9353
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

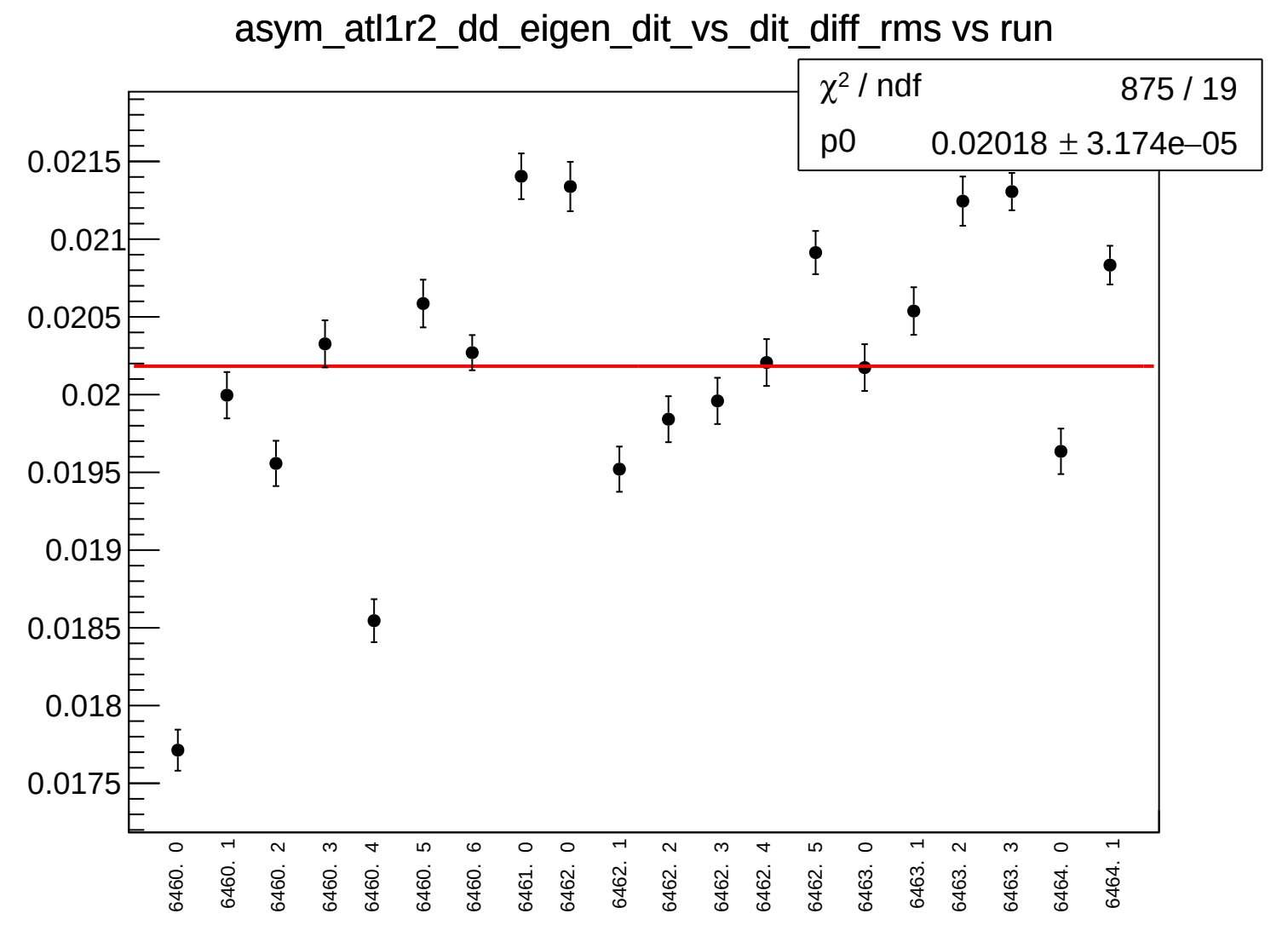

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.137e+04 / 19
p0 250.4 ± 0.3991
360
340
320
300
280
260
240
220
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

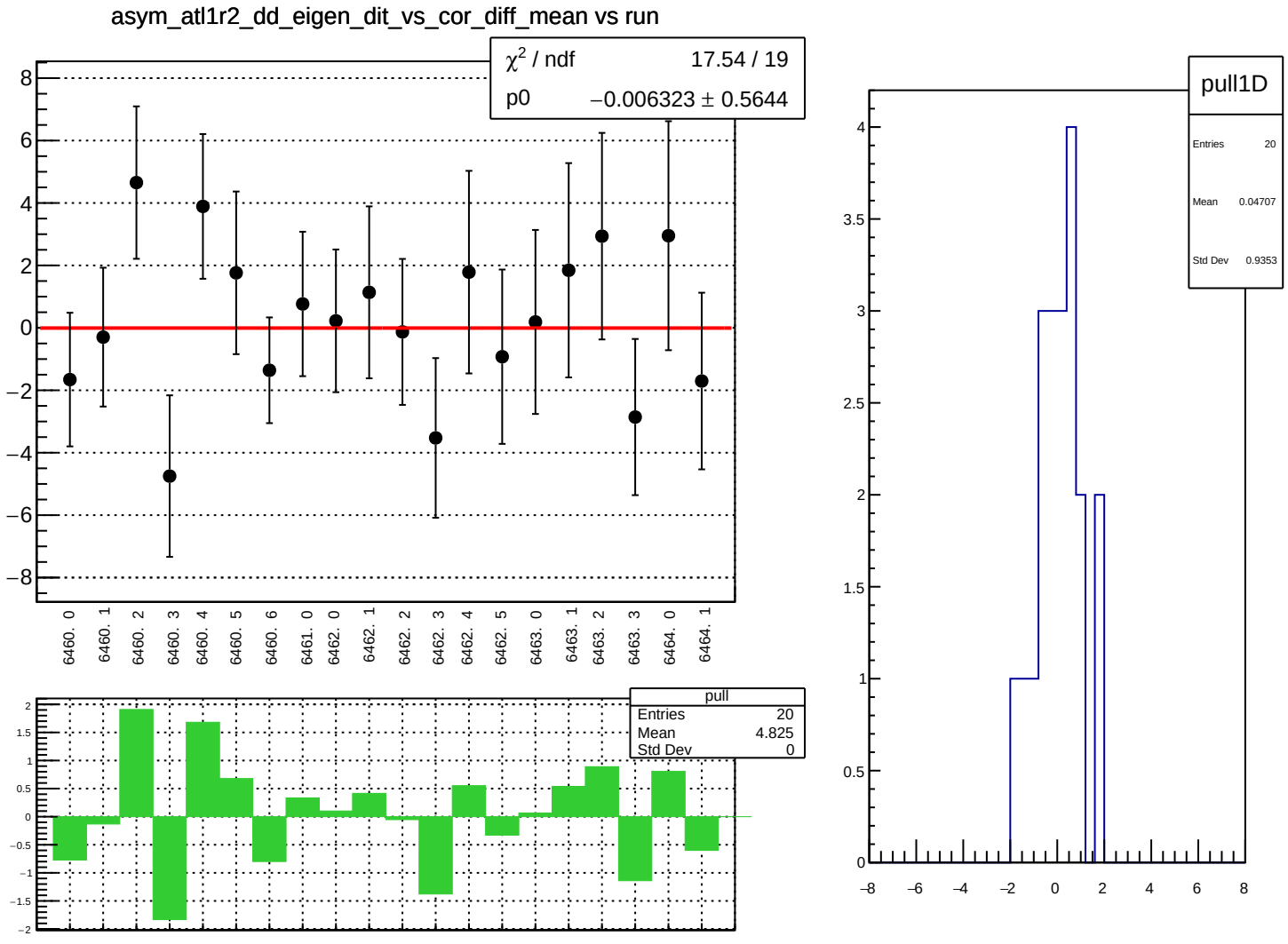

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.54 / 19
p0 −0.006274 ± 0.5644
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.822
Std Dev 0
pull1D
Entries 20
Mean 0.04706
Std Dev 0.9353

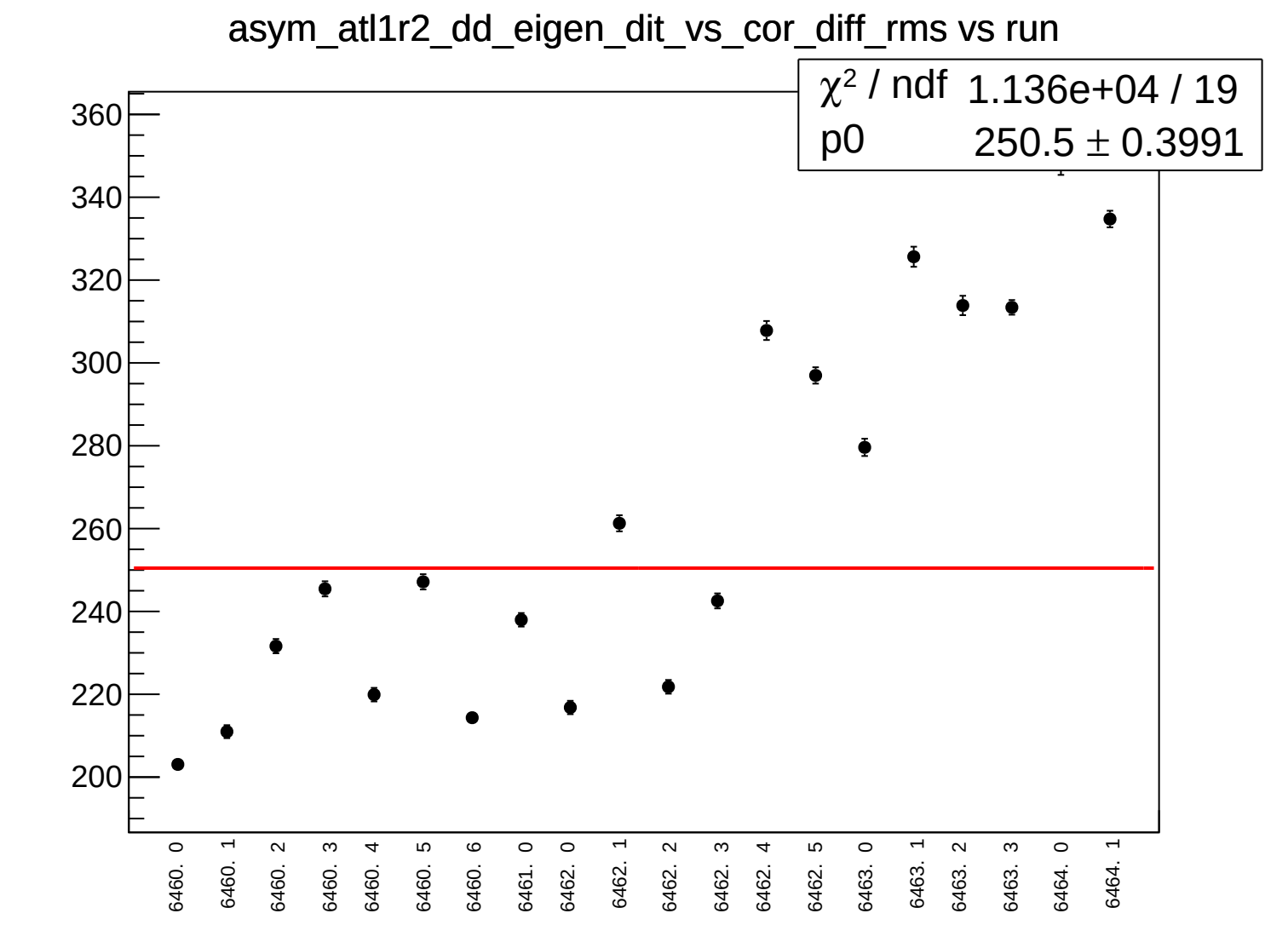

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.137e+04 / 19
p0 250.4 ± 0.3991
360
340
320
300
280
260
240
220
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

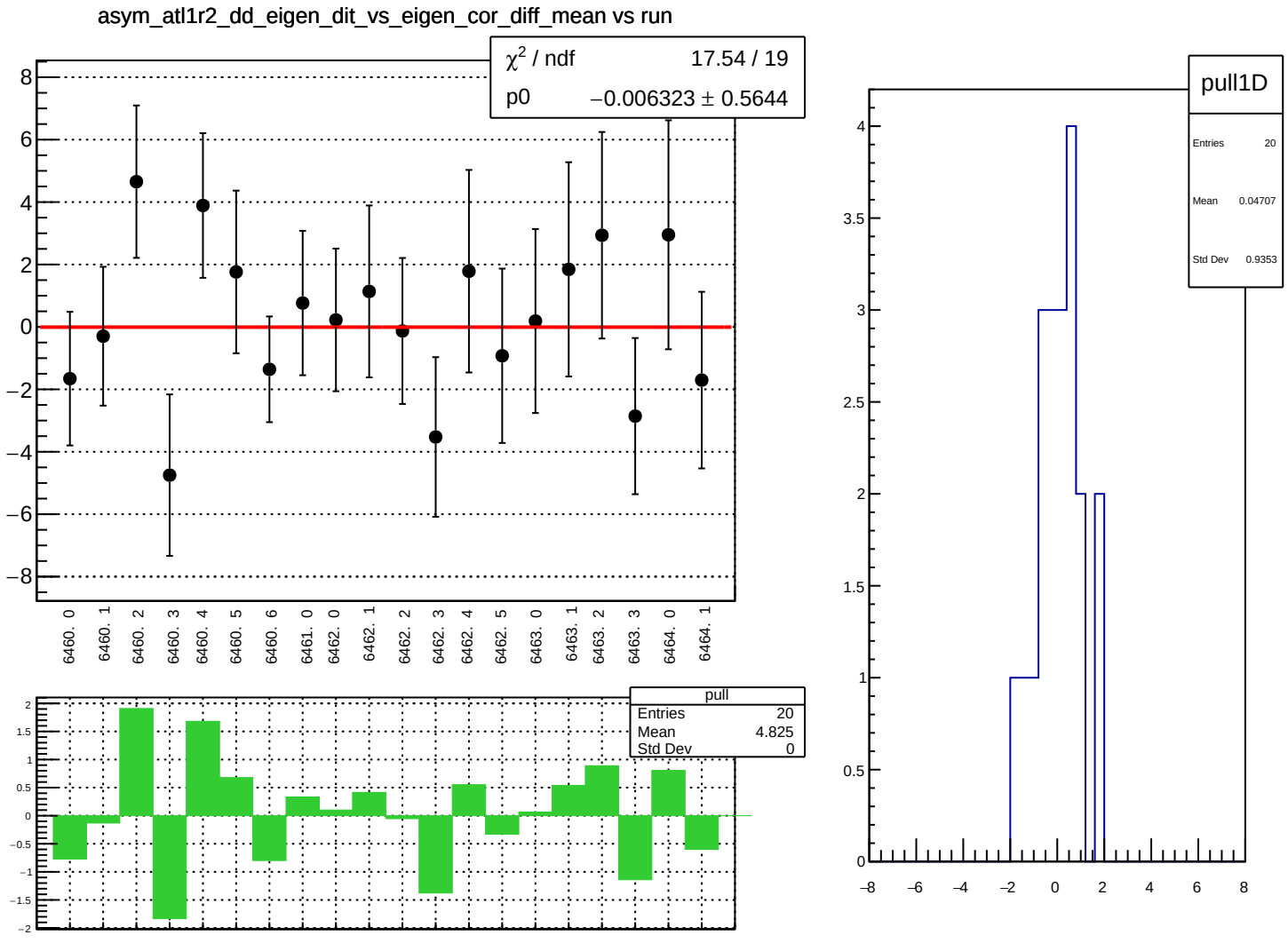

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 13.92 / 19
p0 −2.93e−05 ± 4.489e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

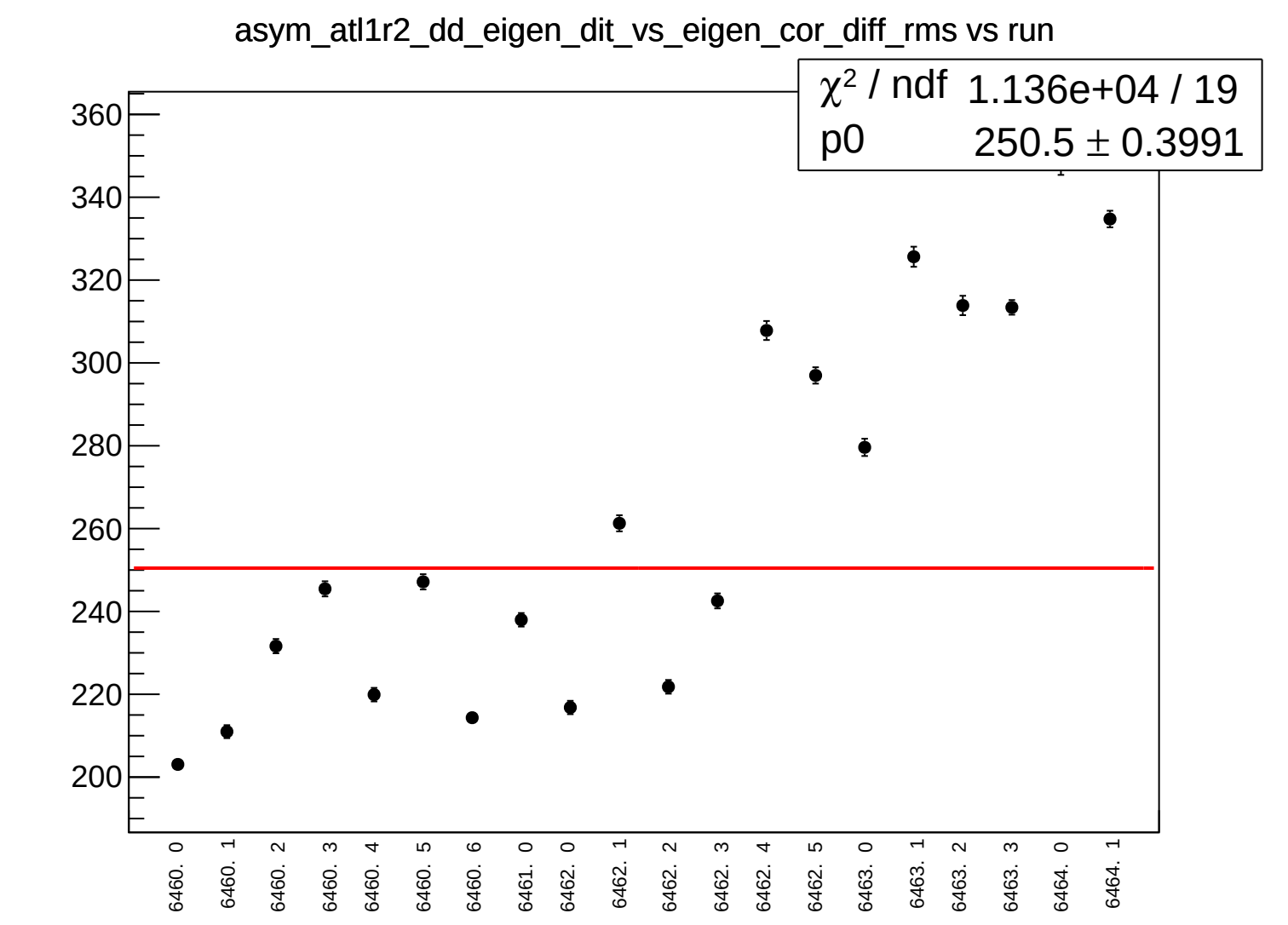

pull1D
Entries 20
Mean 0.02597
Std Dev 0.8338
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

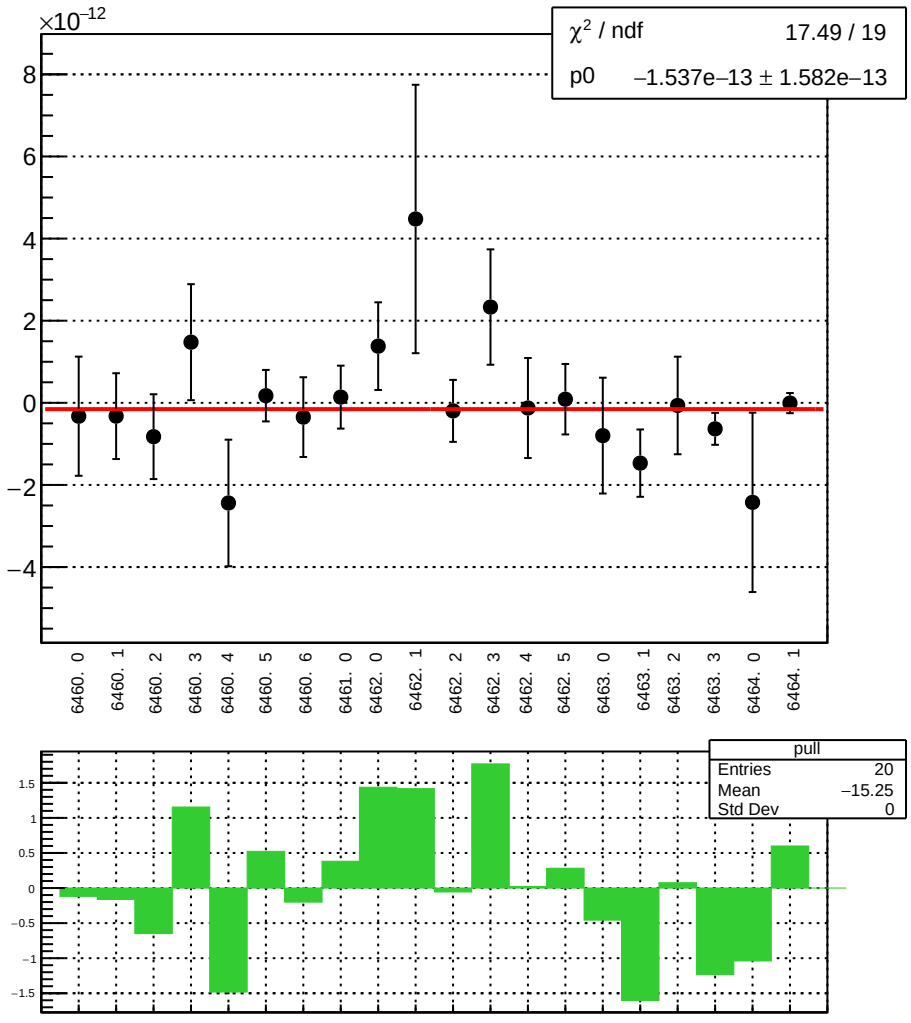

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 875 / 19
p0 0.02018 ± 3.174e−05
0.0215
0.021
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

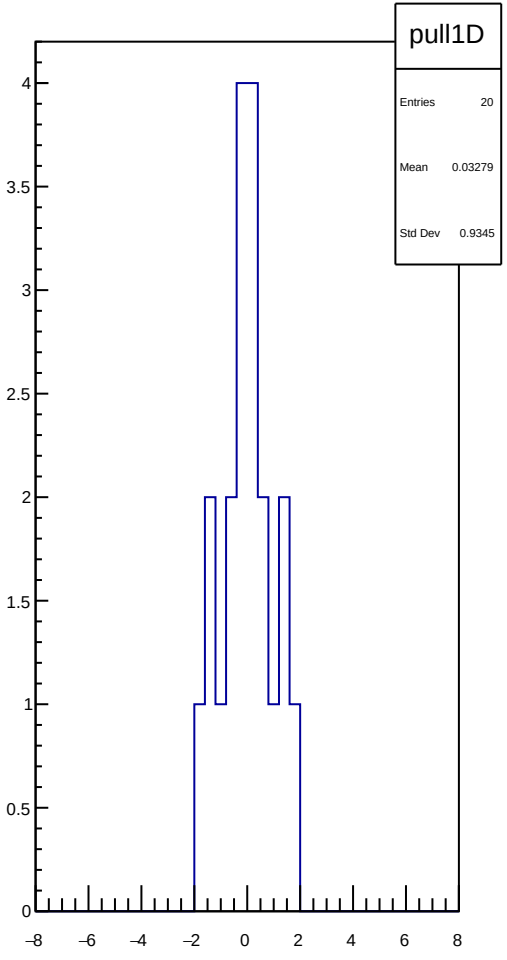

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.54 / 19
p0 −0.006323 ± 0.5644
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.825
Std Dev 0
pull1D
Entries 20
Mean 0.04707
Std Dev 0.9353

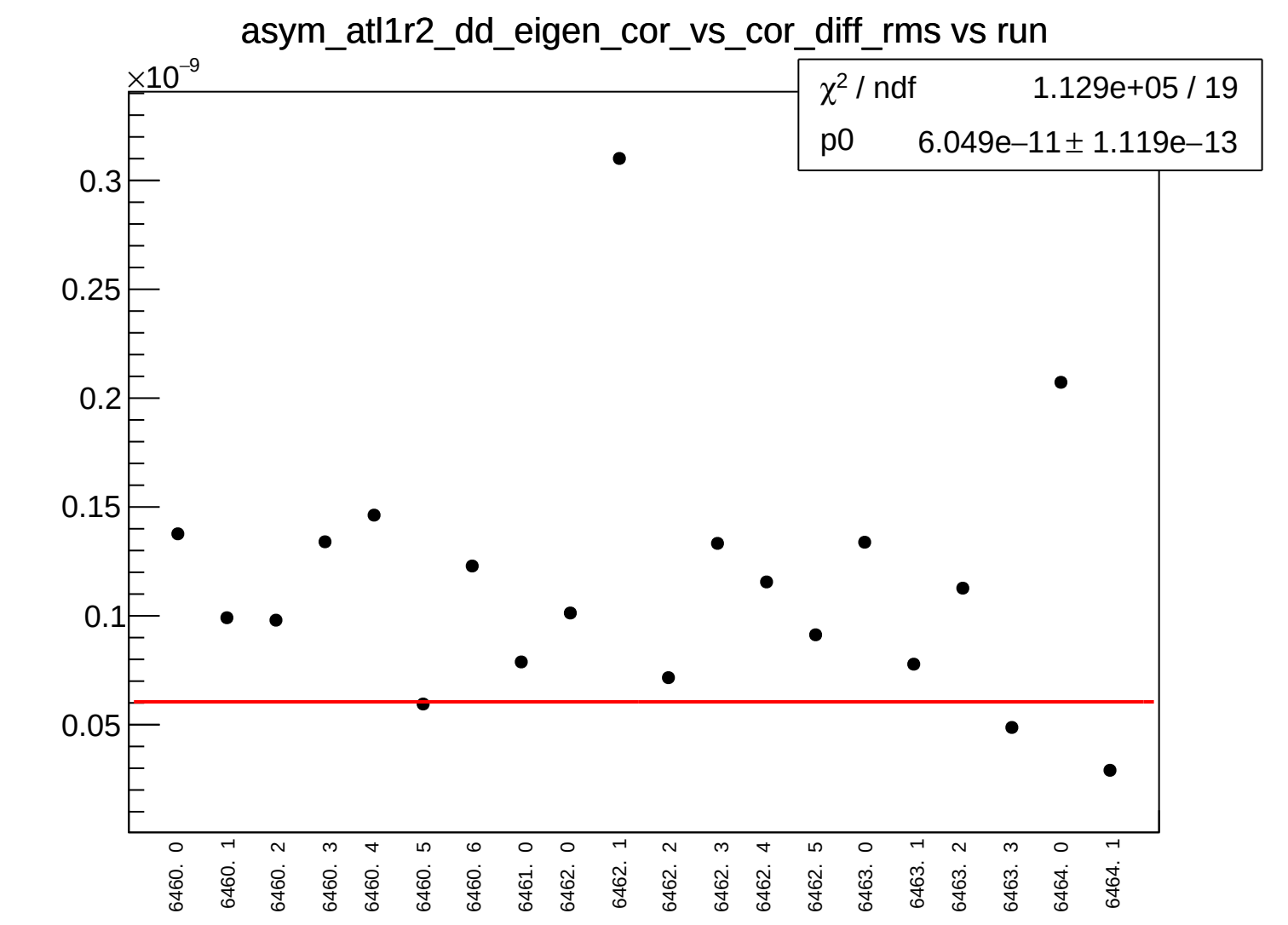

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.136e+04 / 19
p0 250.5 ± 0.3991
360
340
320
300
280
260
240
220
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

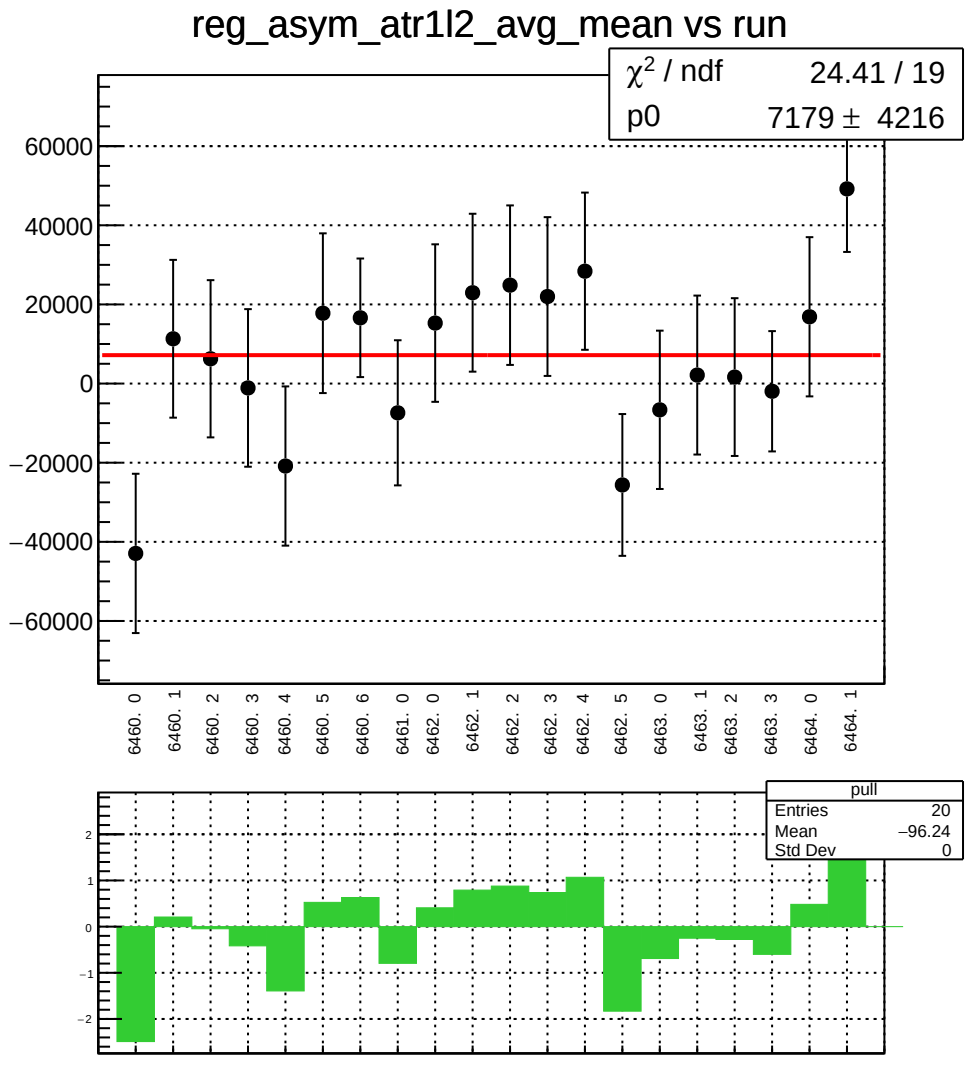

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.54 / 19
p0 −0.006323 ± 0.5644
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.825
Std Dev 0
pull1D
Entries 20
Mean 0.04707
Std Dev 0.9353

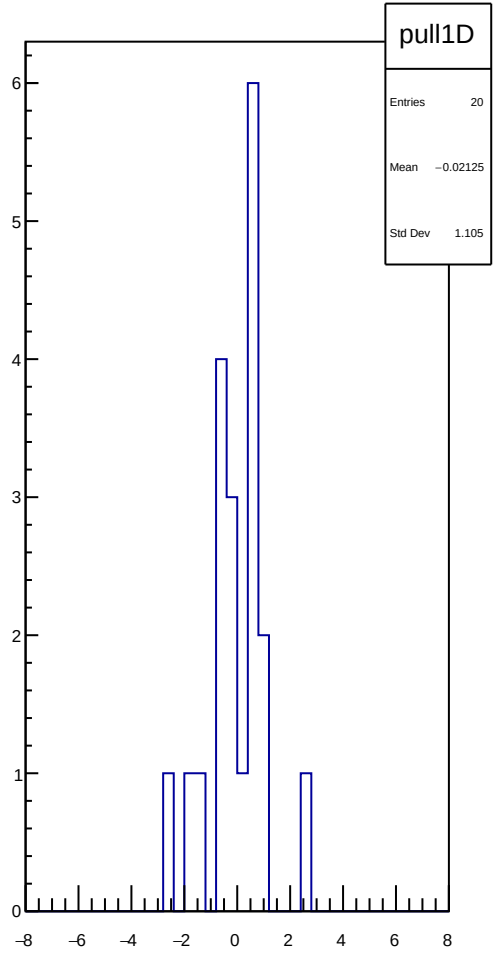

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.136e+04 / 19
p0 250.5 ± 0.3991
360
340
320
300
280
260
240
220
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

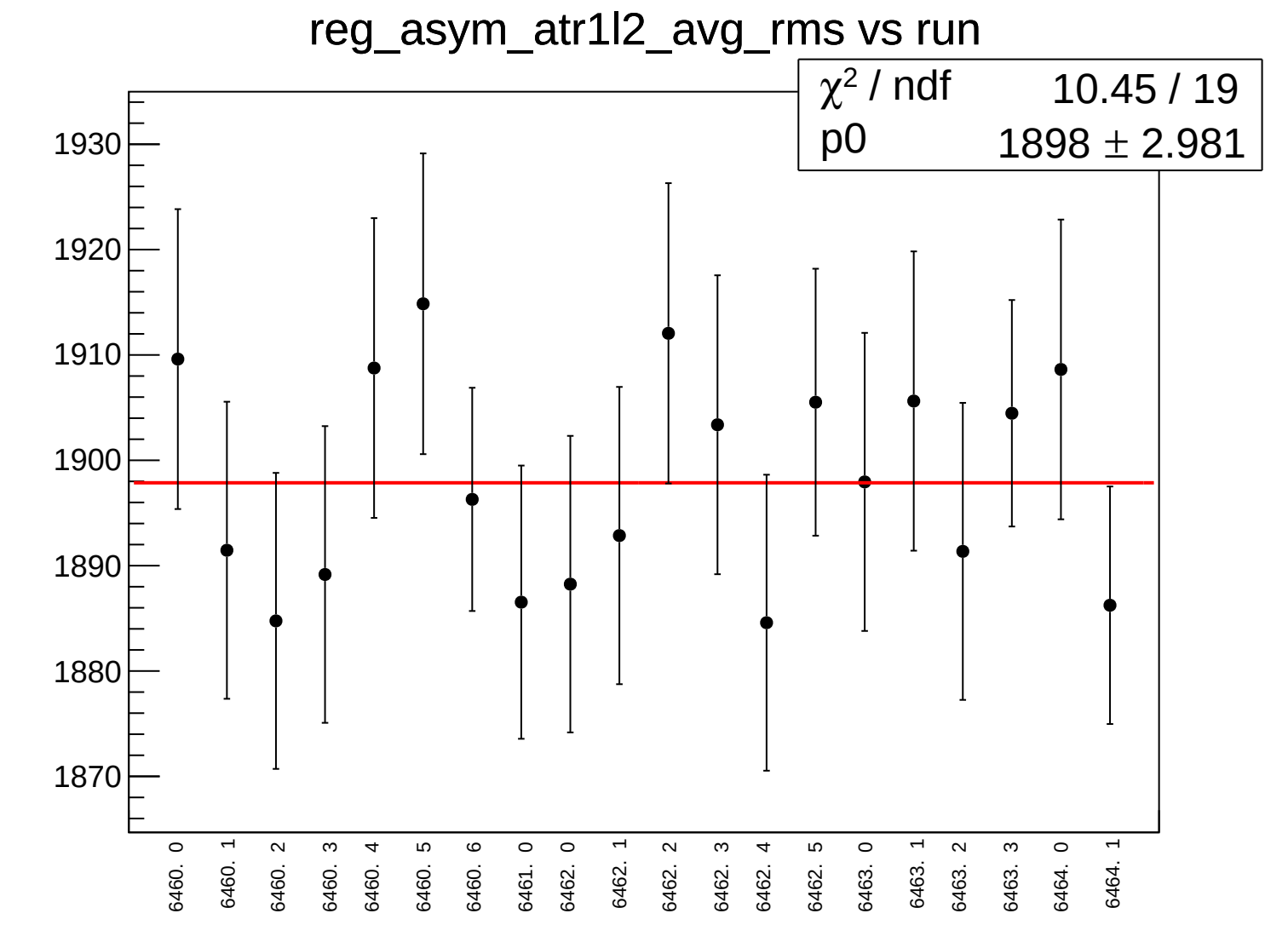

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.49 / 19
p0 −1.537e−13 ± 1.582e−13
8
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −15.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

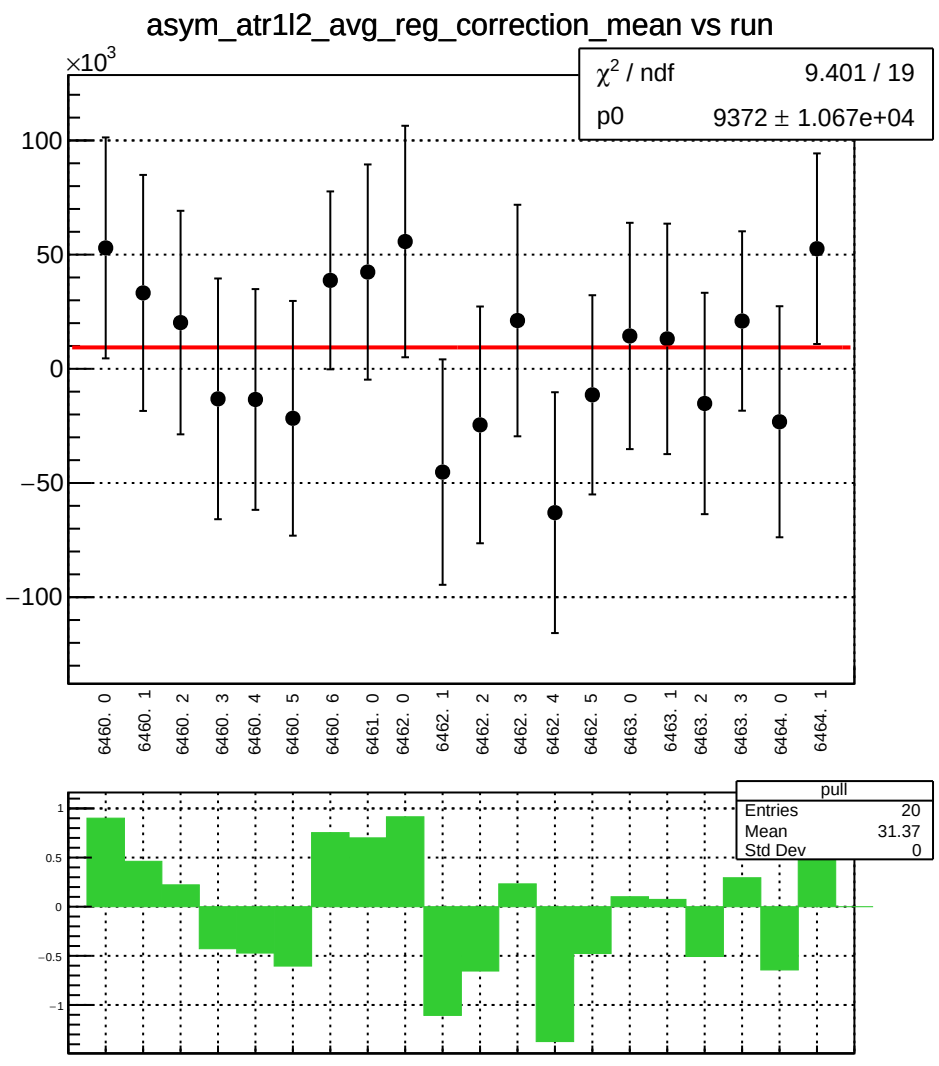

pull1D
Entries 20
Mean 0.03279
Std Dev 0.9345
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

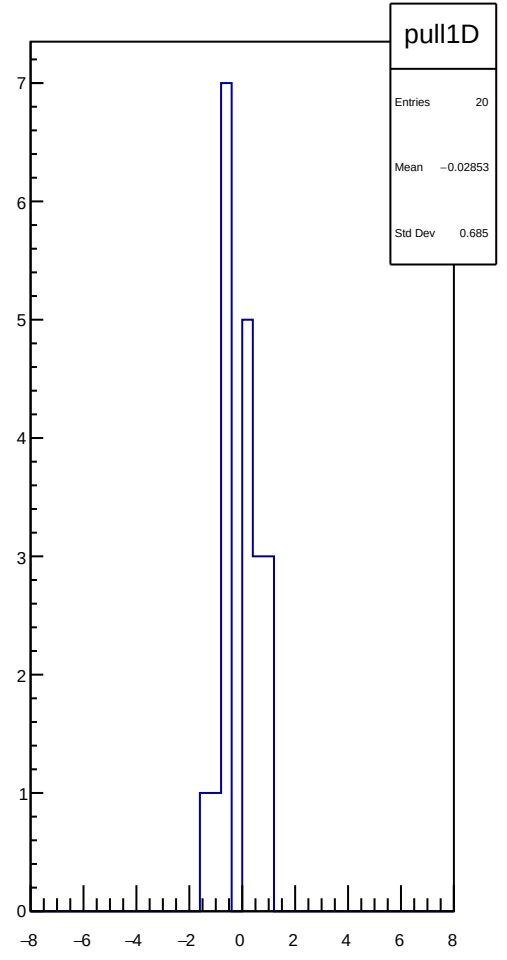

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.129e+05 / 19
p0 6.049e−11 ± 1.119e−13
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

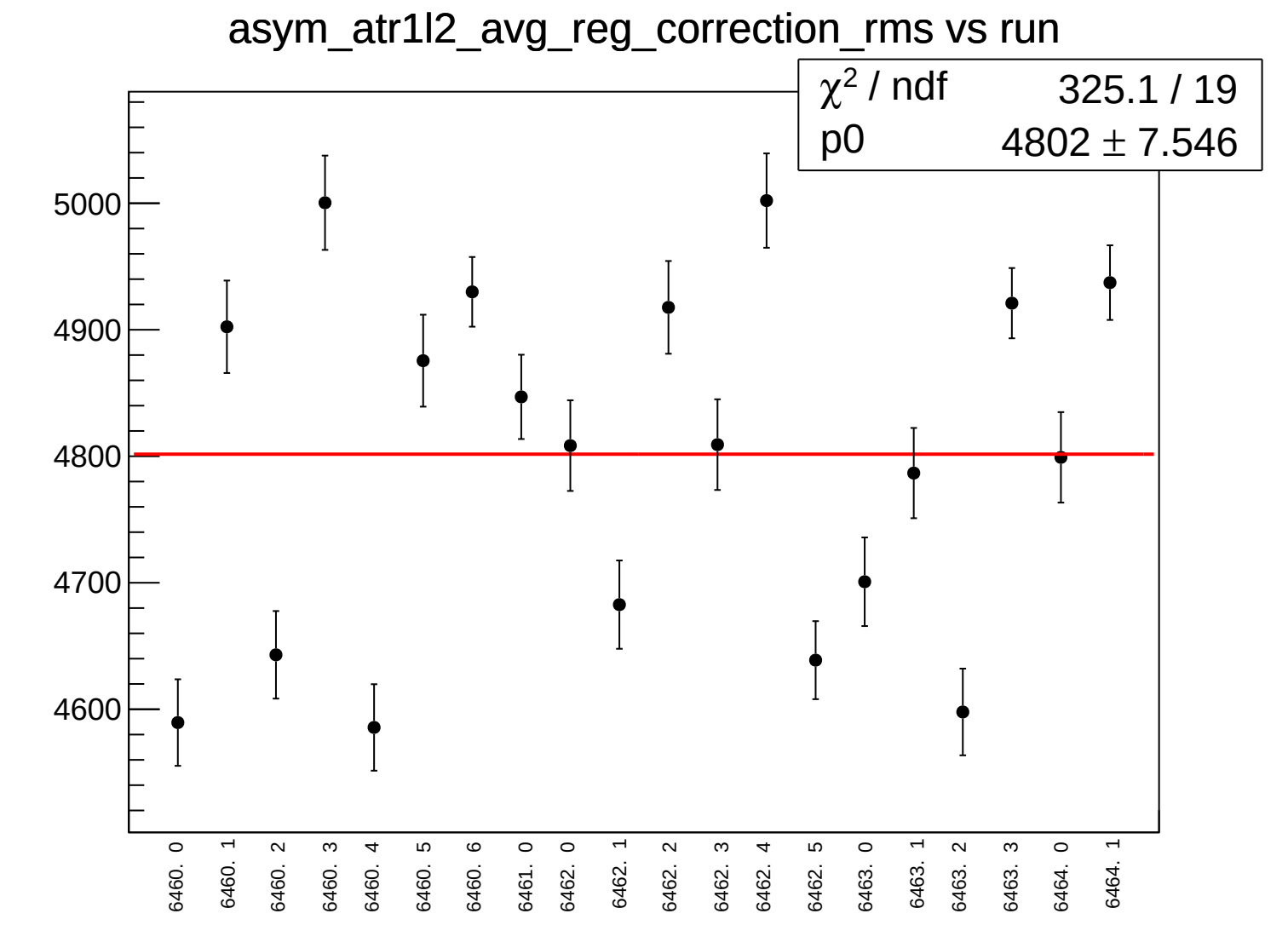

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 24.41 / 19
p0 7179 ± 4216
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −96.24
Std Dev 0
2
1
0
−1
−2

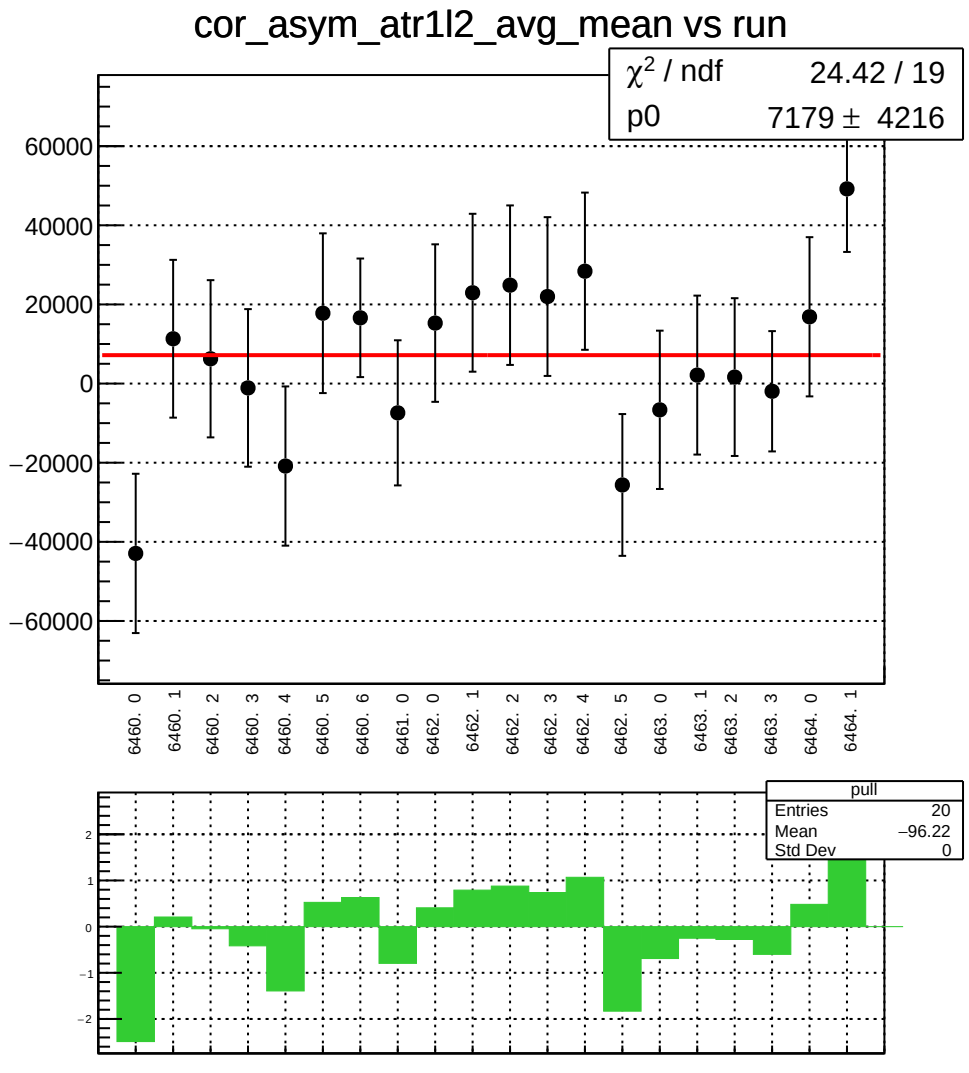

pull1D
Entries 20
Mean −0.02125
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

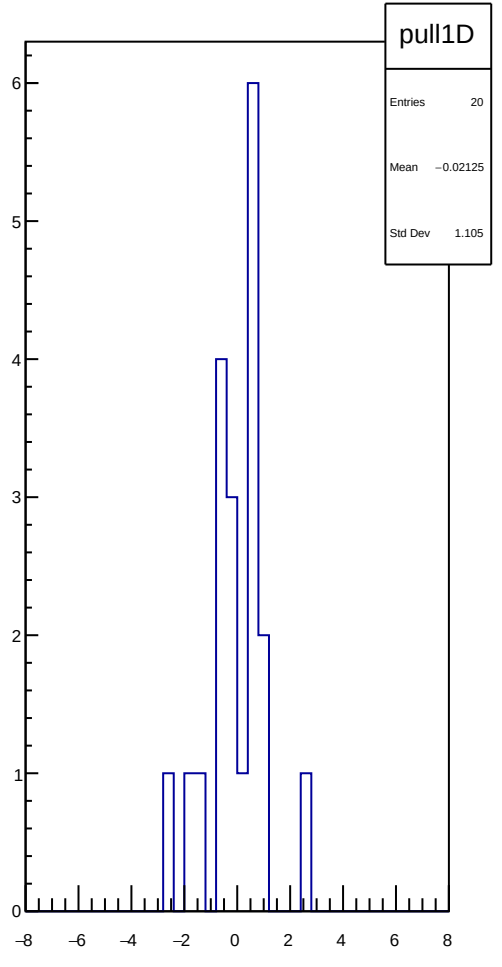

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 10.45 / 19
p0 1898 ± 2.981
1930
1920
1910
1900
1890
1880
1870
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

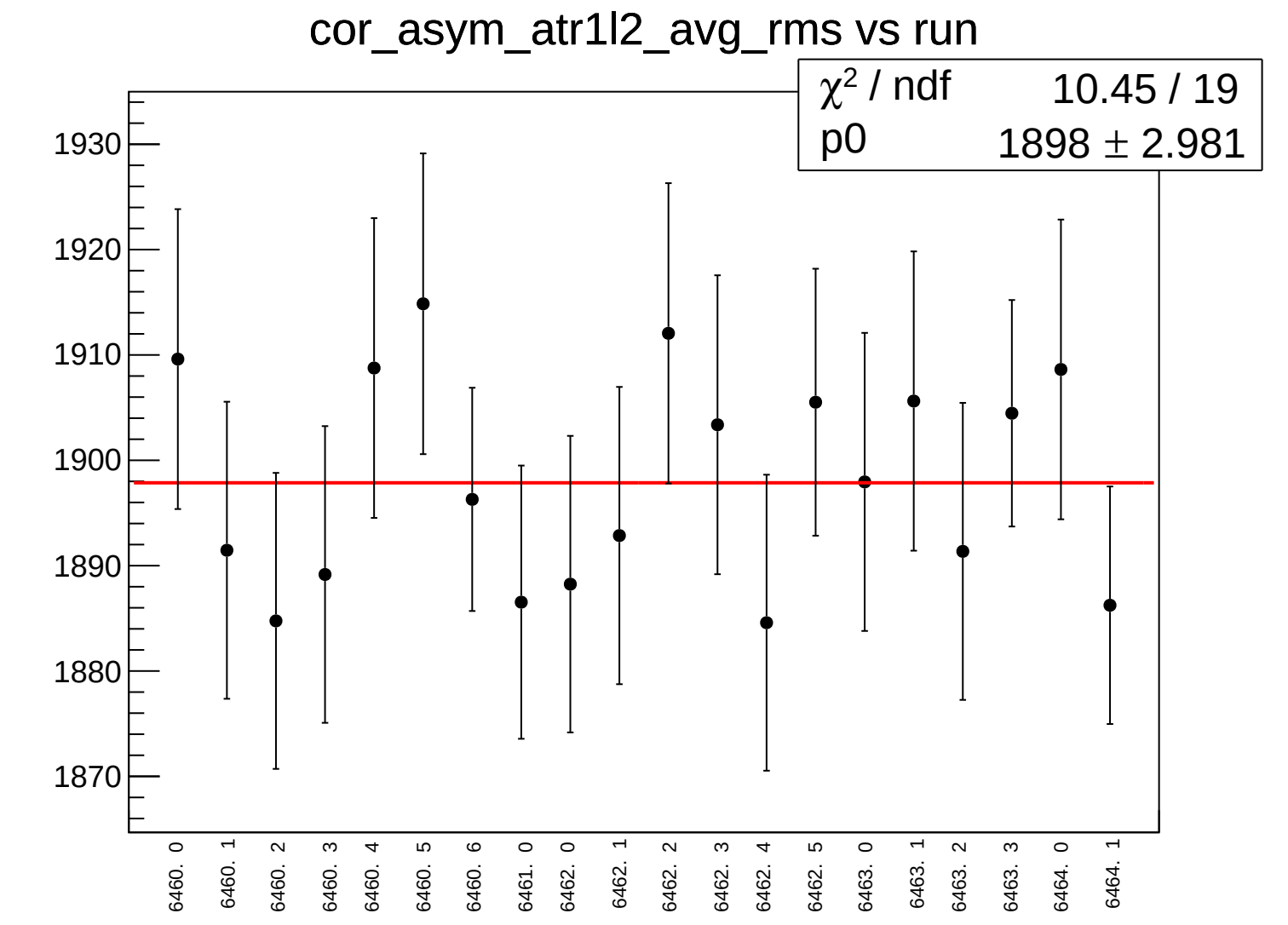

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 9.401 / 19
p0 9372 ± 1.067e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.37
Std Dev 0
1
0.5
0
−0.5
−1

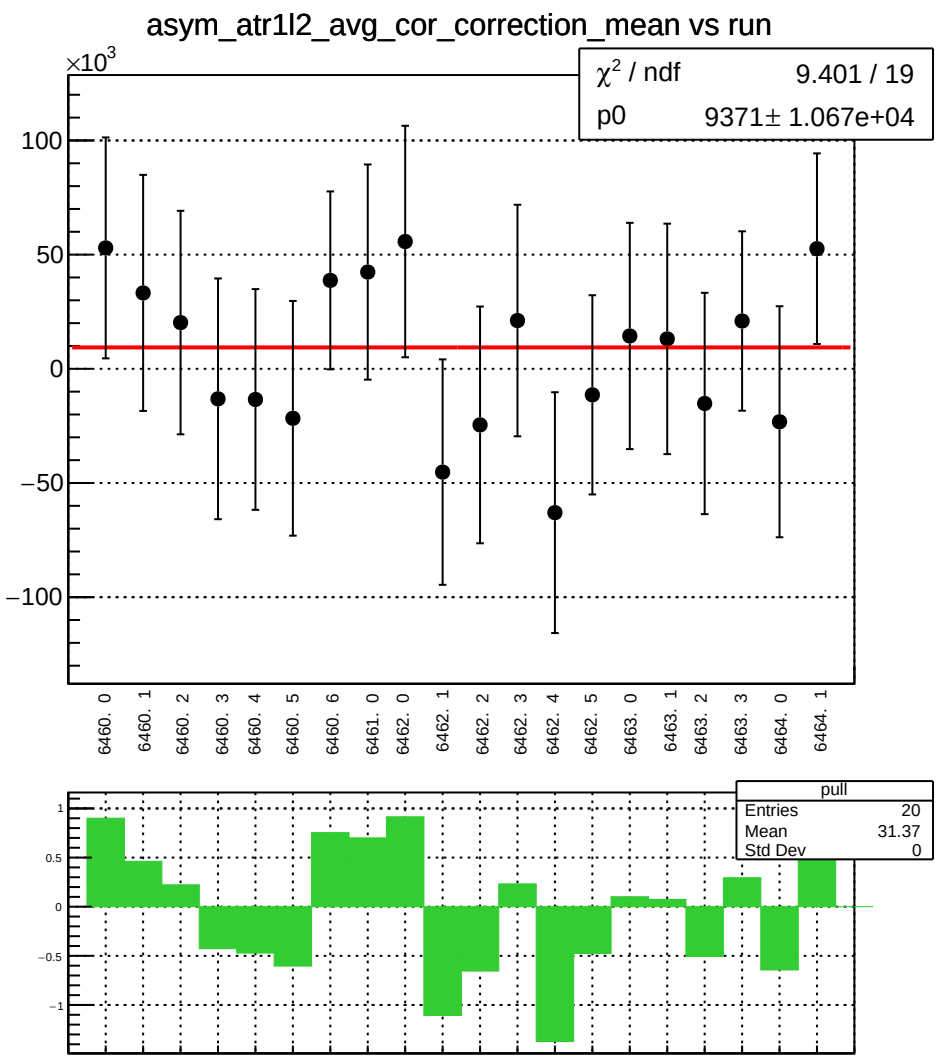

pull1D
Entries 20
Mean −0.02853
Std Dev 0.685
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

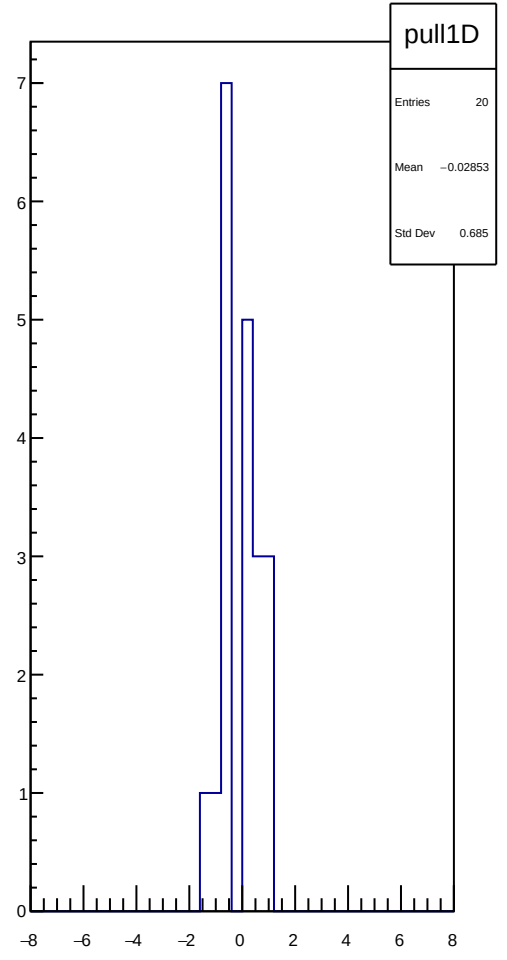

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 325.1 / 19
p0 4802 ± 7.546
5000
4900
4800
4700
4600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

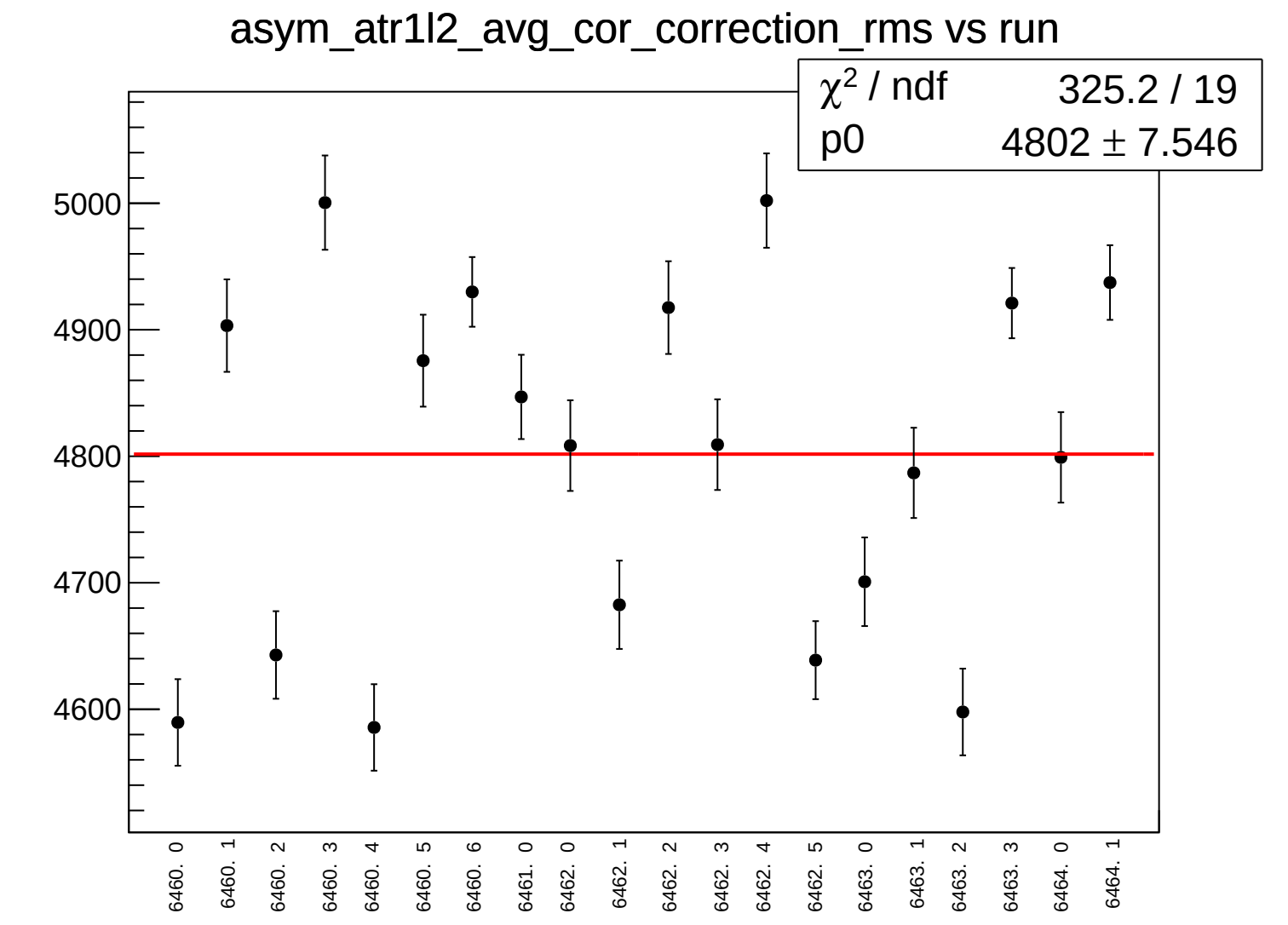

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 24.42 / 19
p0 7179 ± 4216
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −96.22
Std Dev 0
2
1
0
−1
−2

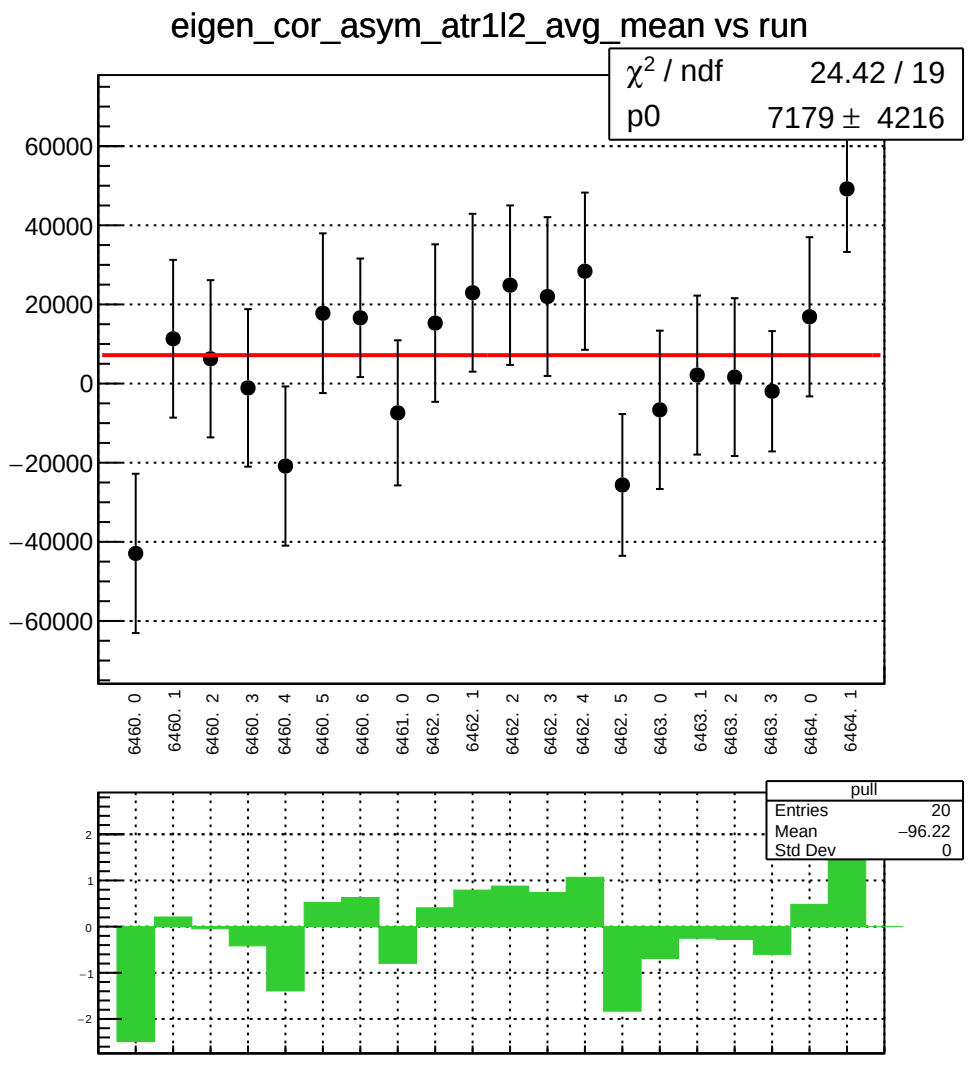

pull1D
Entries 20
Mean −0.02125
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

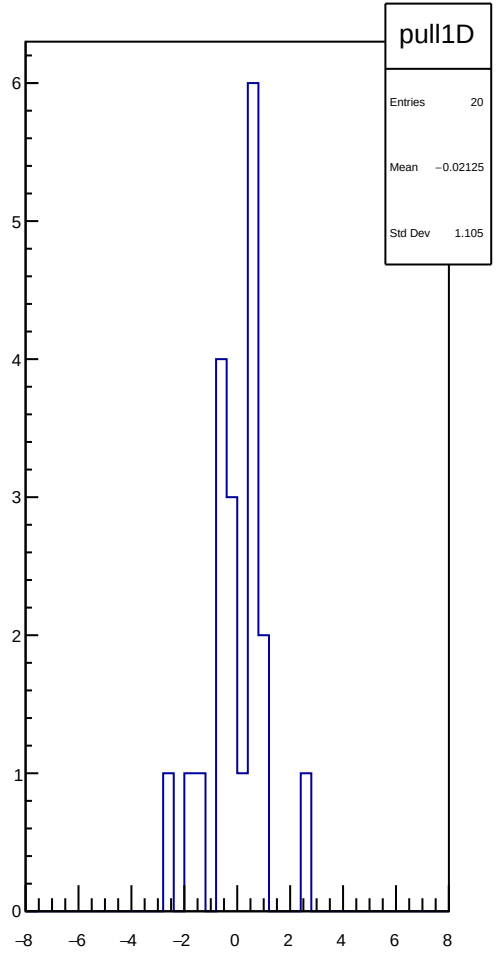

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 10.45 / 19
p0 1898 ± 2.981
1930
1920
1910
1900
1890
1880
1870
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

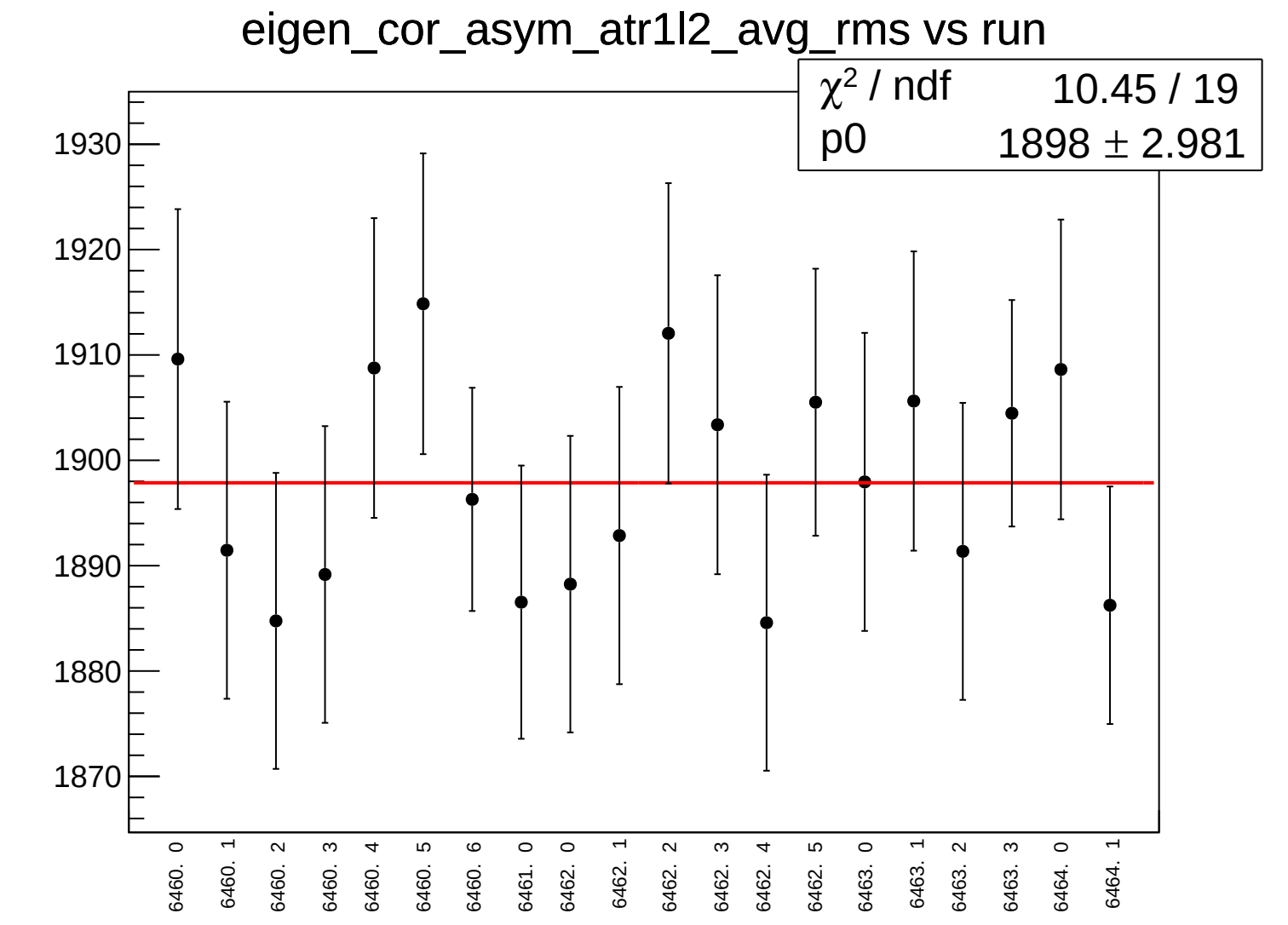

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 9.401 / 19
p0 9371± 1.067e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.37
Std Dev 0
1
0.5
0
−0.5
−1

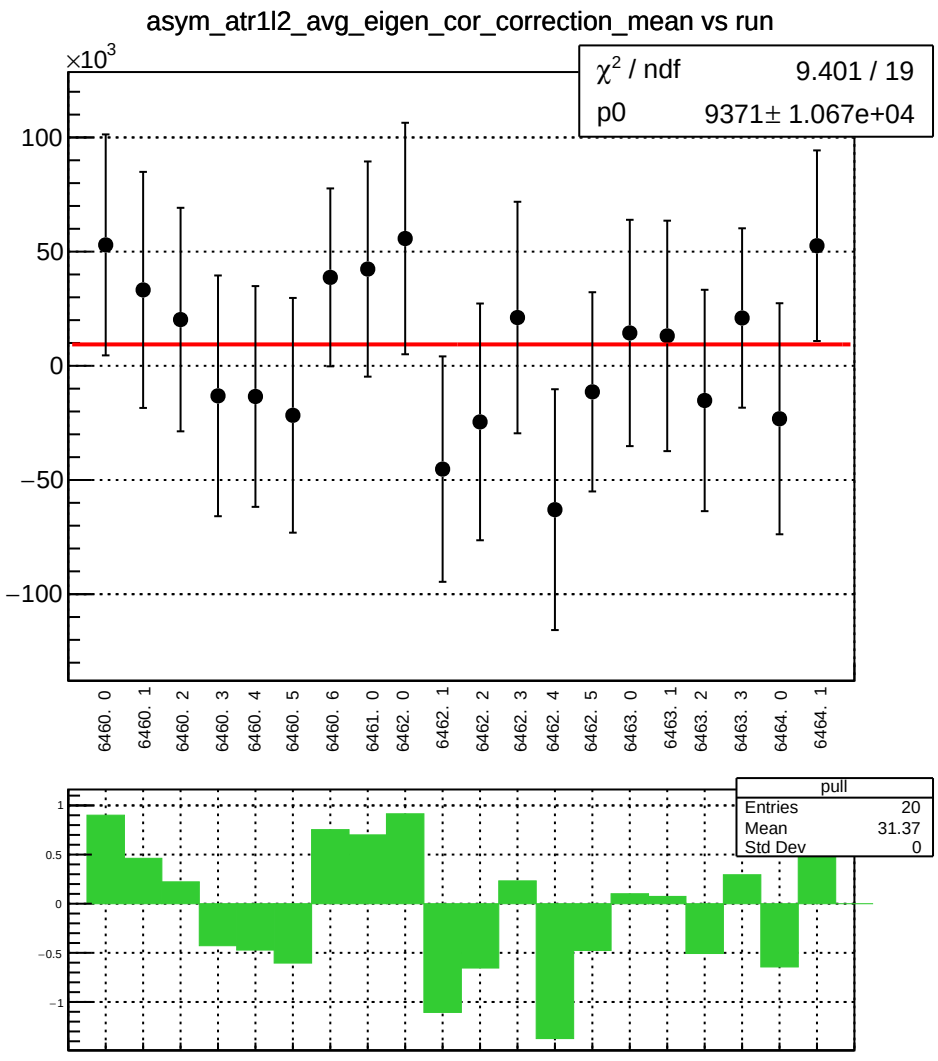

pull1D
Entries 20
Mean −0.02853
Std Dev 0.685
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

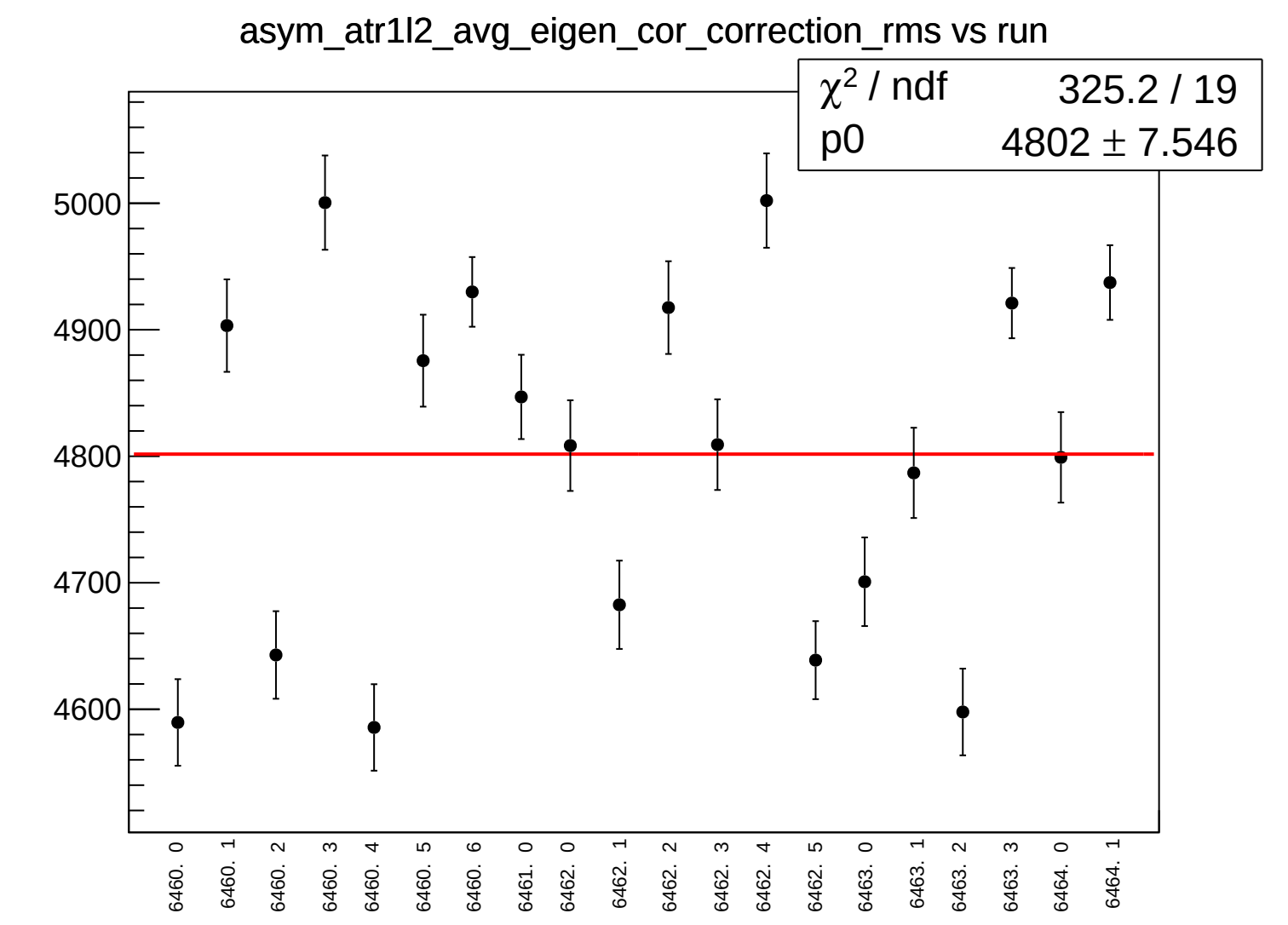

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 325.2 / 19
p0 4802 ± 7.546
5000
4900
4800
4700
4600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

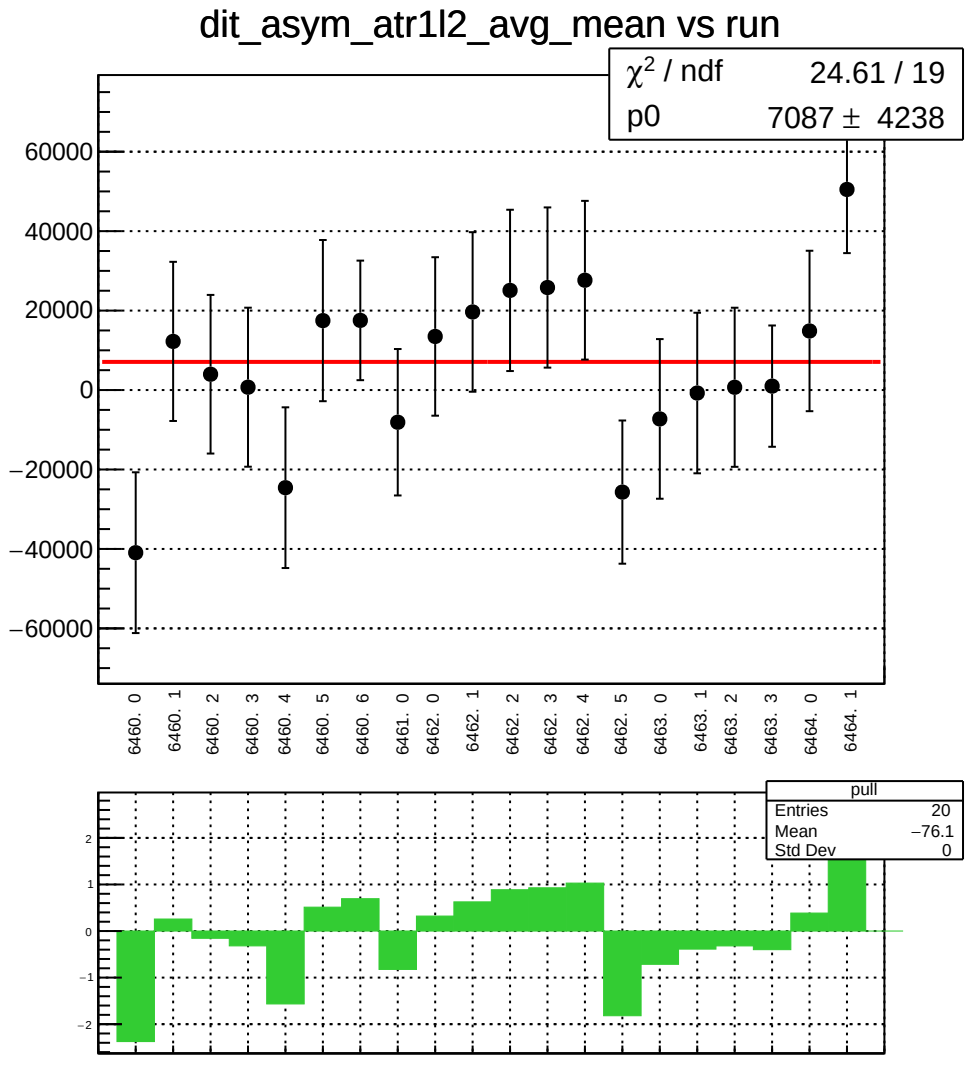

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 24.42 / 19
p0 7179 ± 4216
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −96.22
Std Dev 0
2
1
0
−1
−2

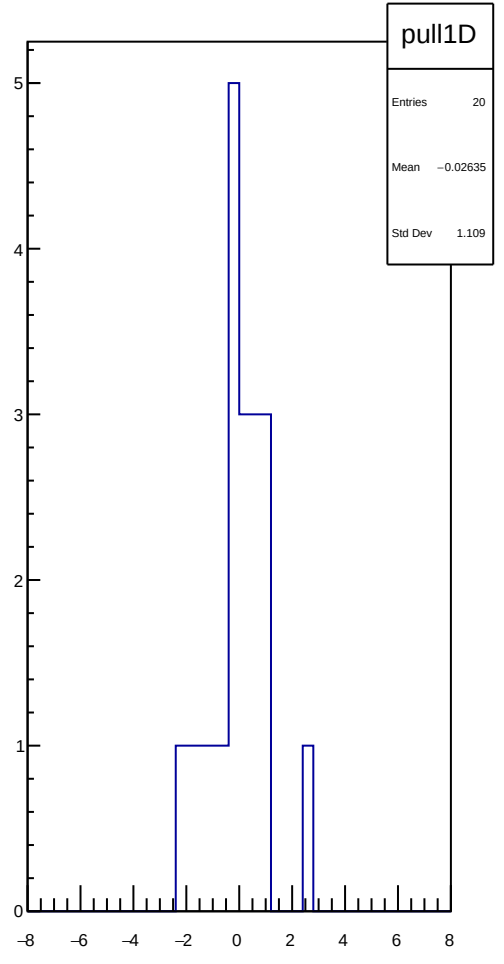

pull1D
Entries 20
Mean −0.02125
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

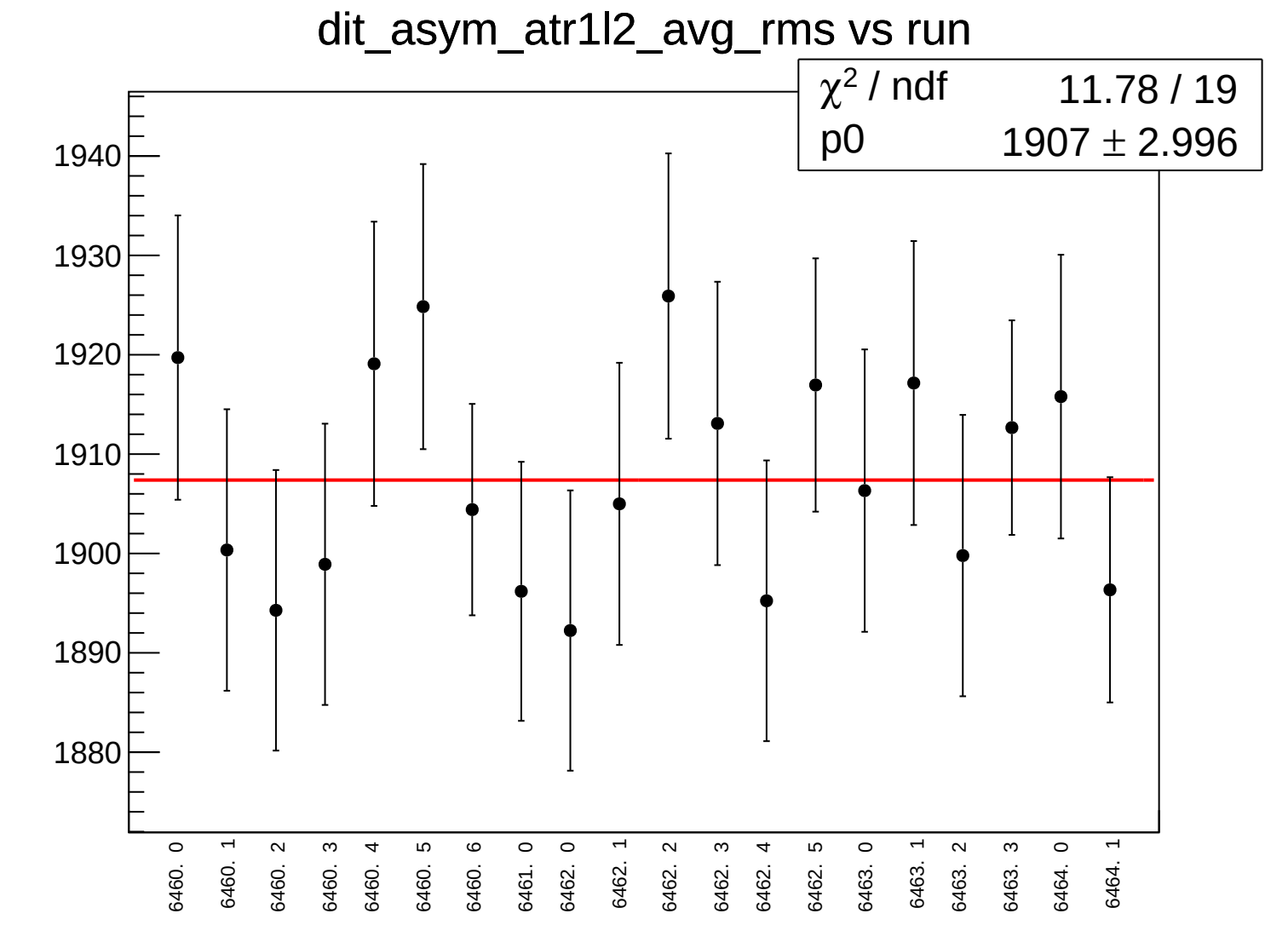

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 10.45 / 19
p0 1898 ± 2.981
1930
1920
1910
1900
1890
1880
1870
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

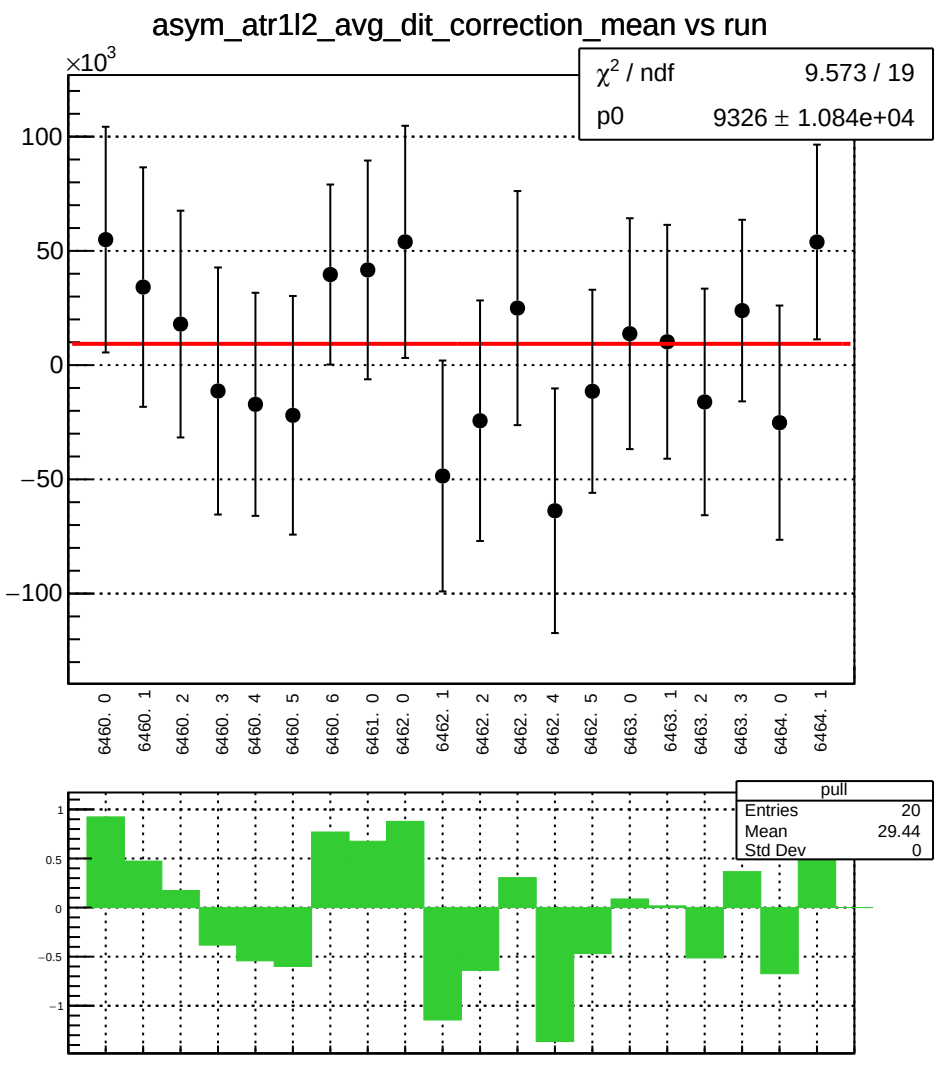

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 9.401 / 19
p0 9371± 1.067e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.37
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02853
Std Dev 0.685
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

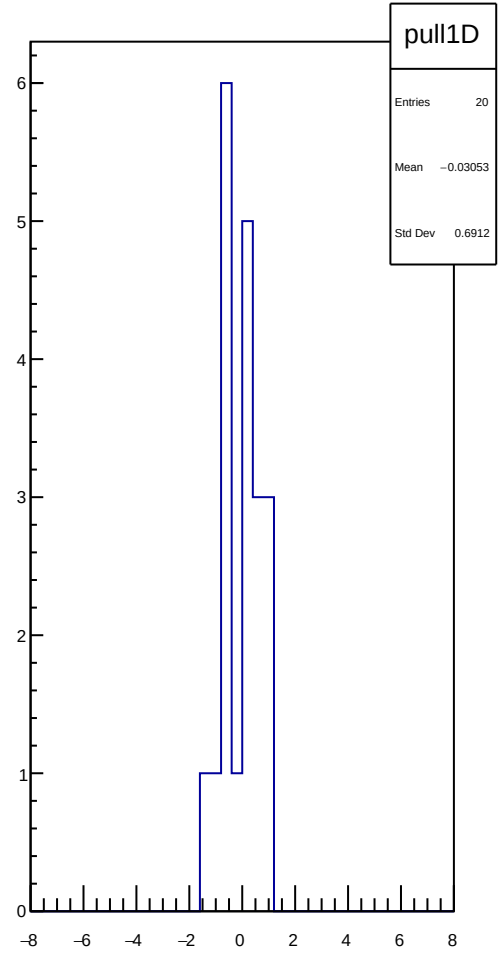

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 325.2 / 19
p0 4802 ± 7.546
5000
4900
4800
4700
4600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

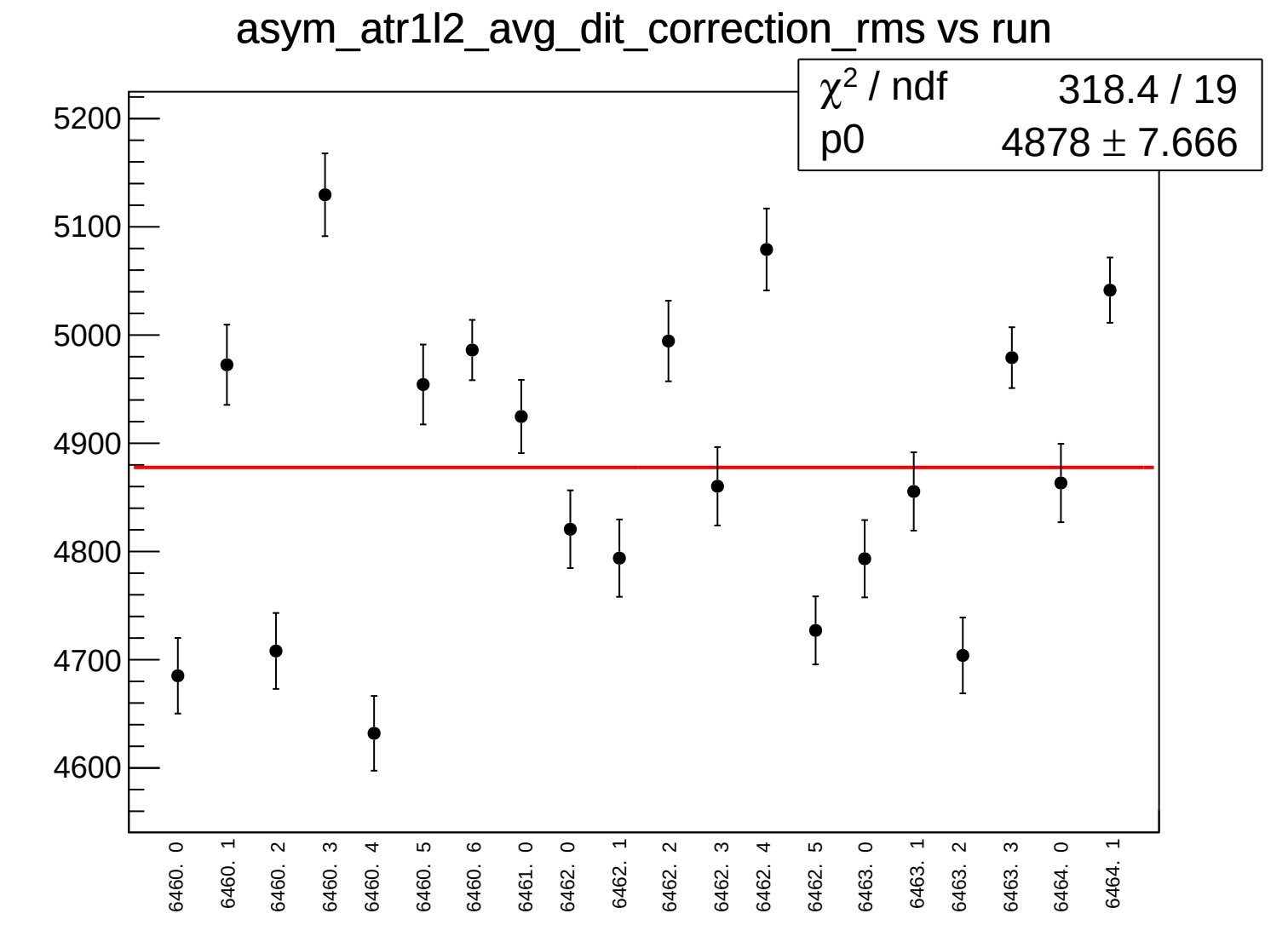

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 24.61 / 19
p0 7087 ± 4238
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −76.1
Std Dev 0
2
1
0
−1
−2

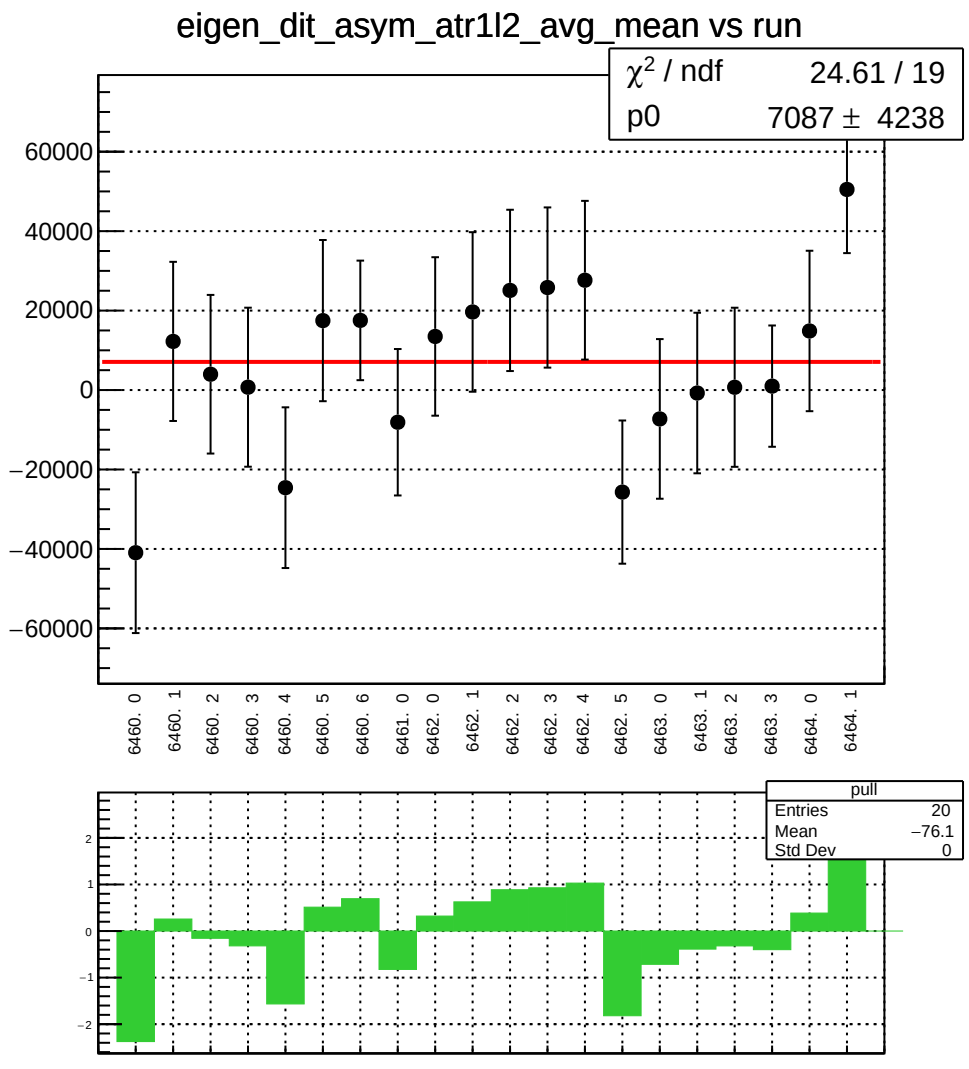

pull1D
Entries 20
Mean −0.02635
Std Dev 1.109
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

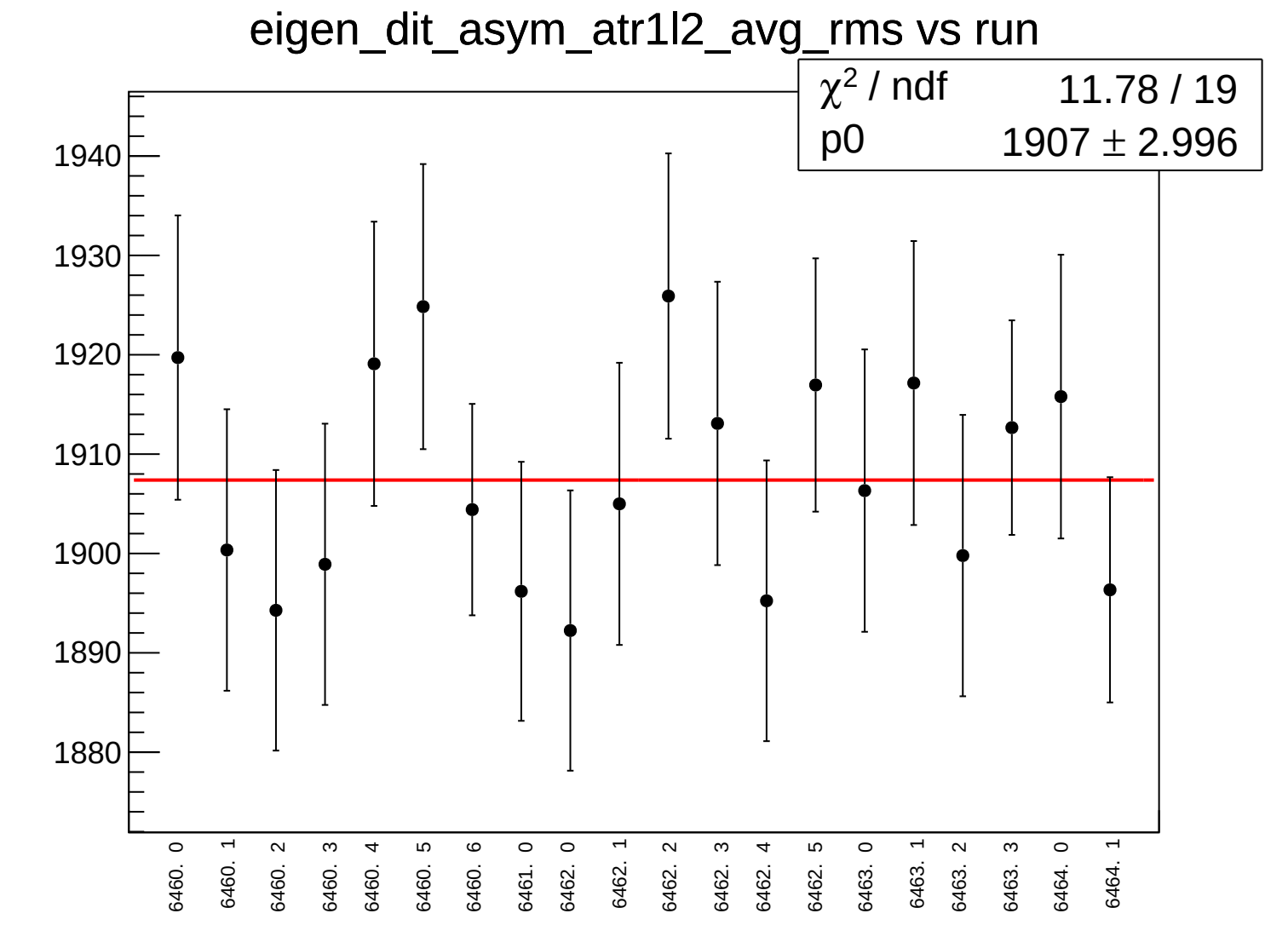

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 11.78 / 19
p0 1907 ± 2.996
1940
1930
1920
1910
1900
1890
1880
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

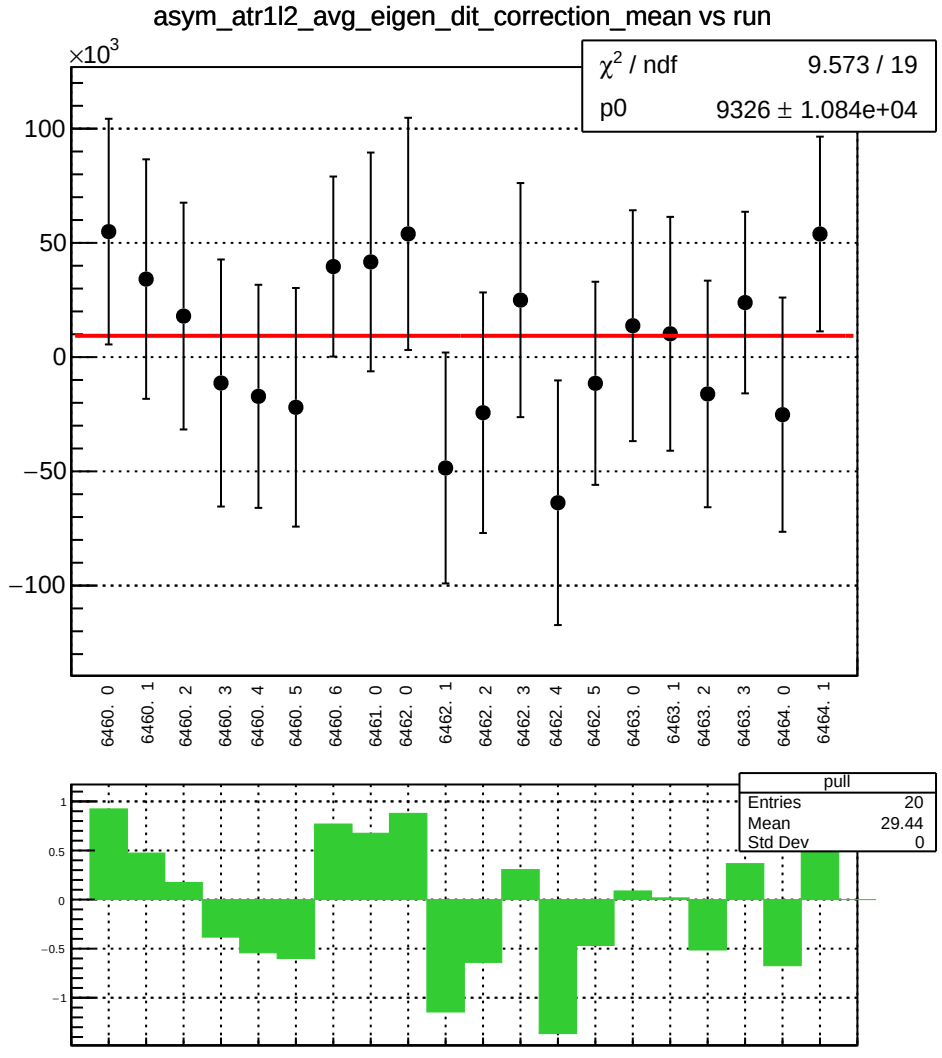

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 9.573 / 19
p0 9326 ± 1.084e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.44
Std Dev 0
1
0.5
0
−0.5
−1

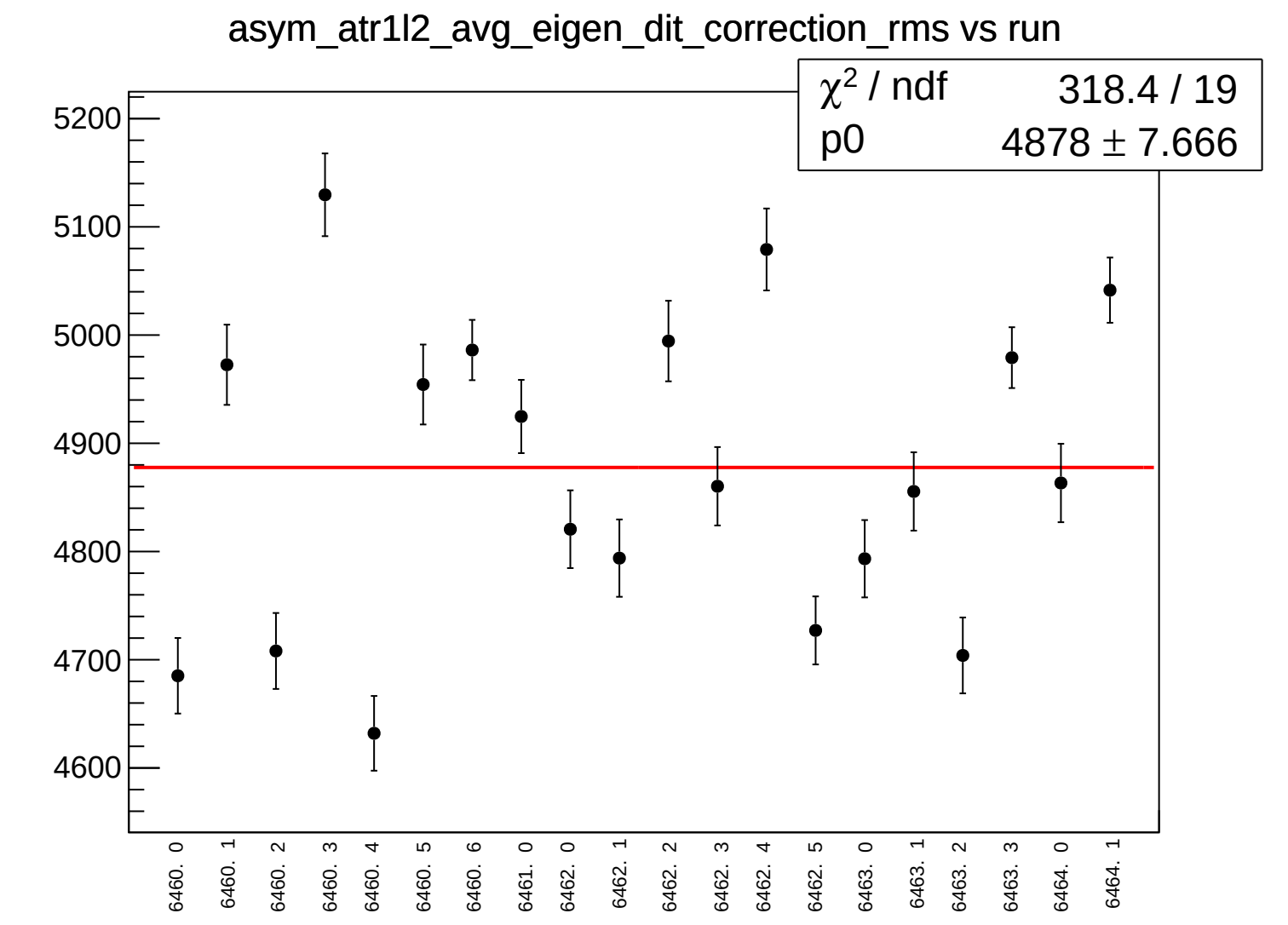

pull1D
Entries 20
Mean −0.03053
Std Dev 0.6912
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

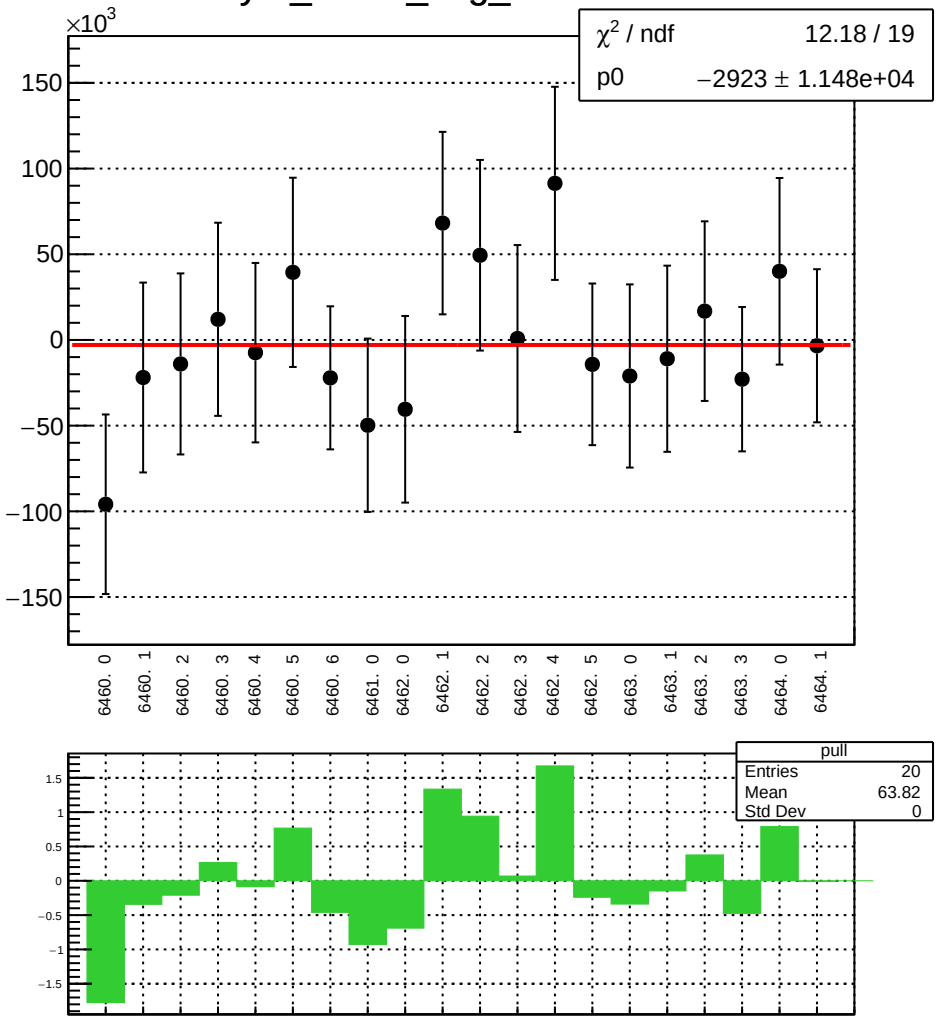

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 318.4 / 19
p0 4878 ± 7.666
5200
5100
5000
4900
4800
4700
4600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

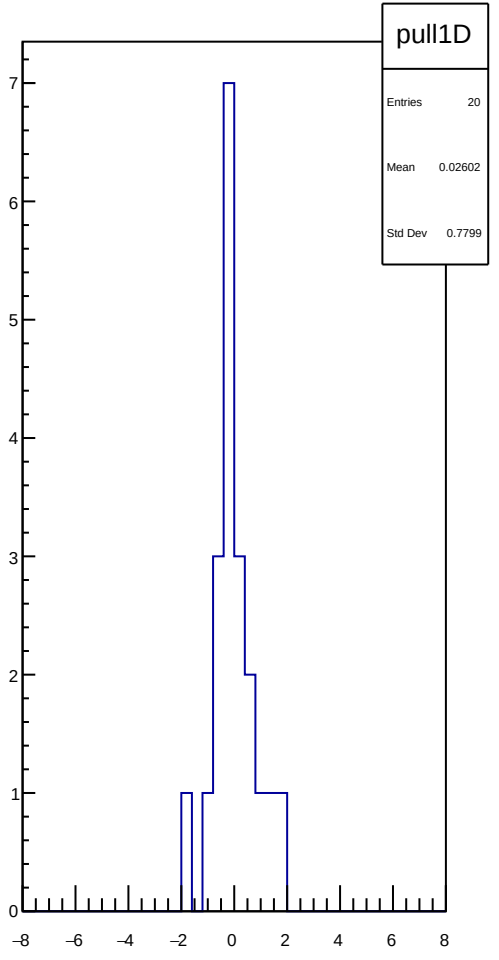

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 24.61 / 19
p0 7087 ± 4238
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −76.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.02635
Std Dev 1.109
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

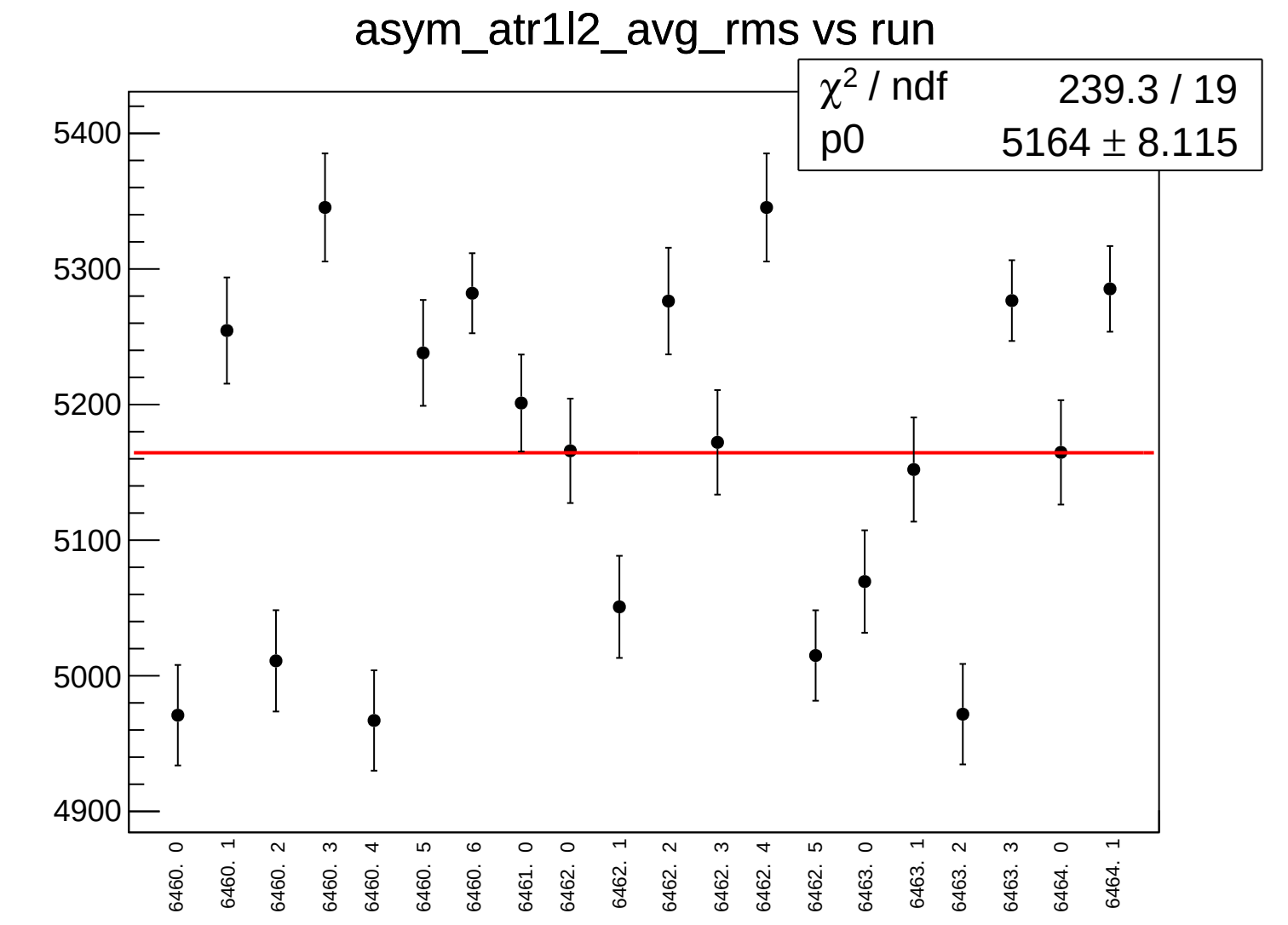

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 11.78 / 19
p0 1907 ± 2.996
1940
1930
1920
1910
1900
1890
1880
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

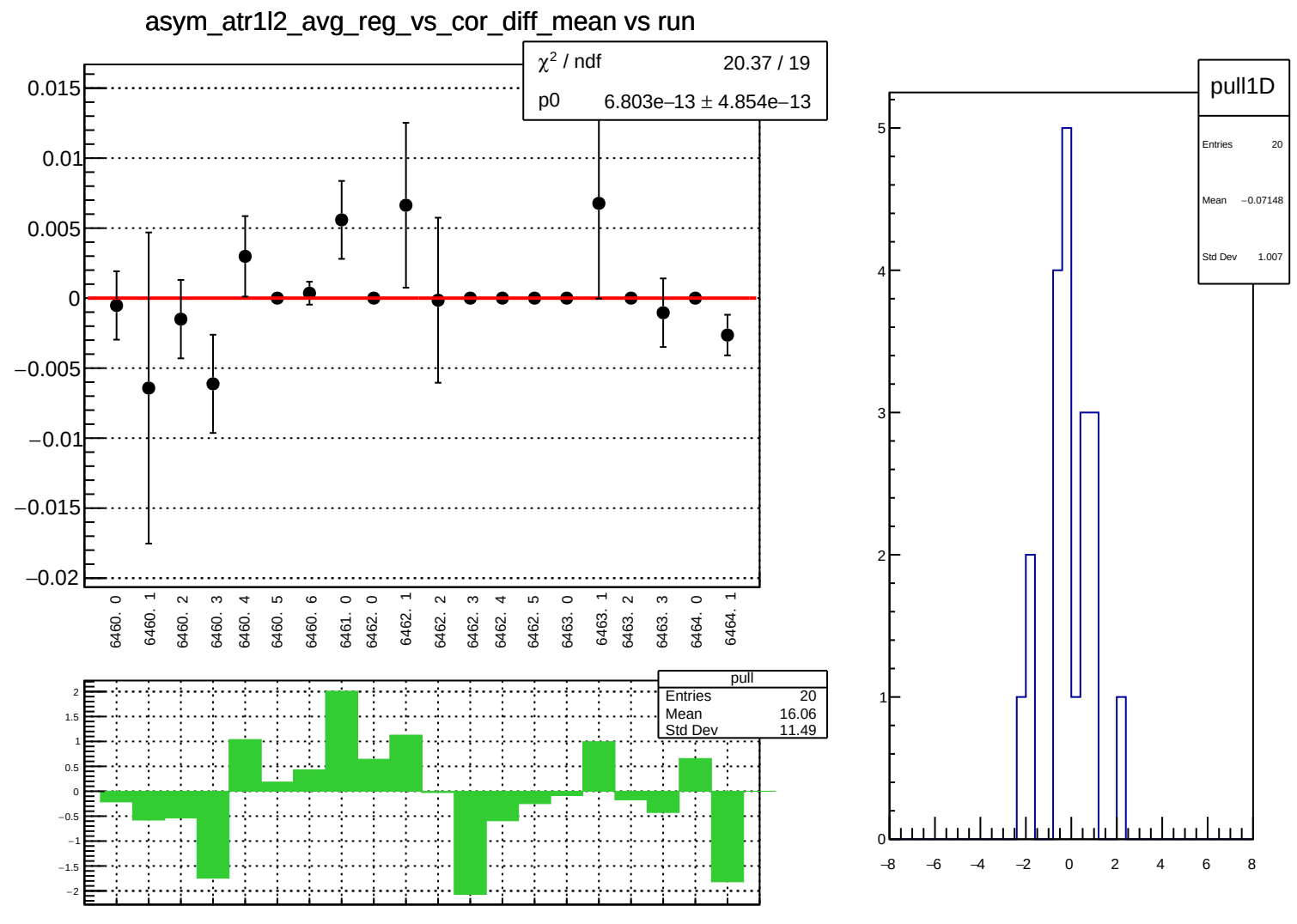

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 9.573 / 19
p0 9326 ± 1.084e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.44
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.03053
Std Dev 0.6912
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

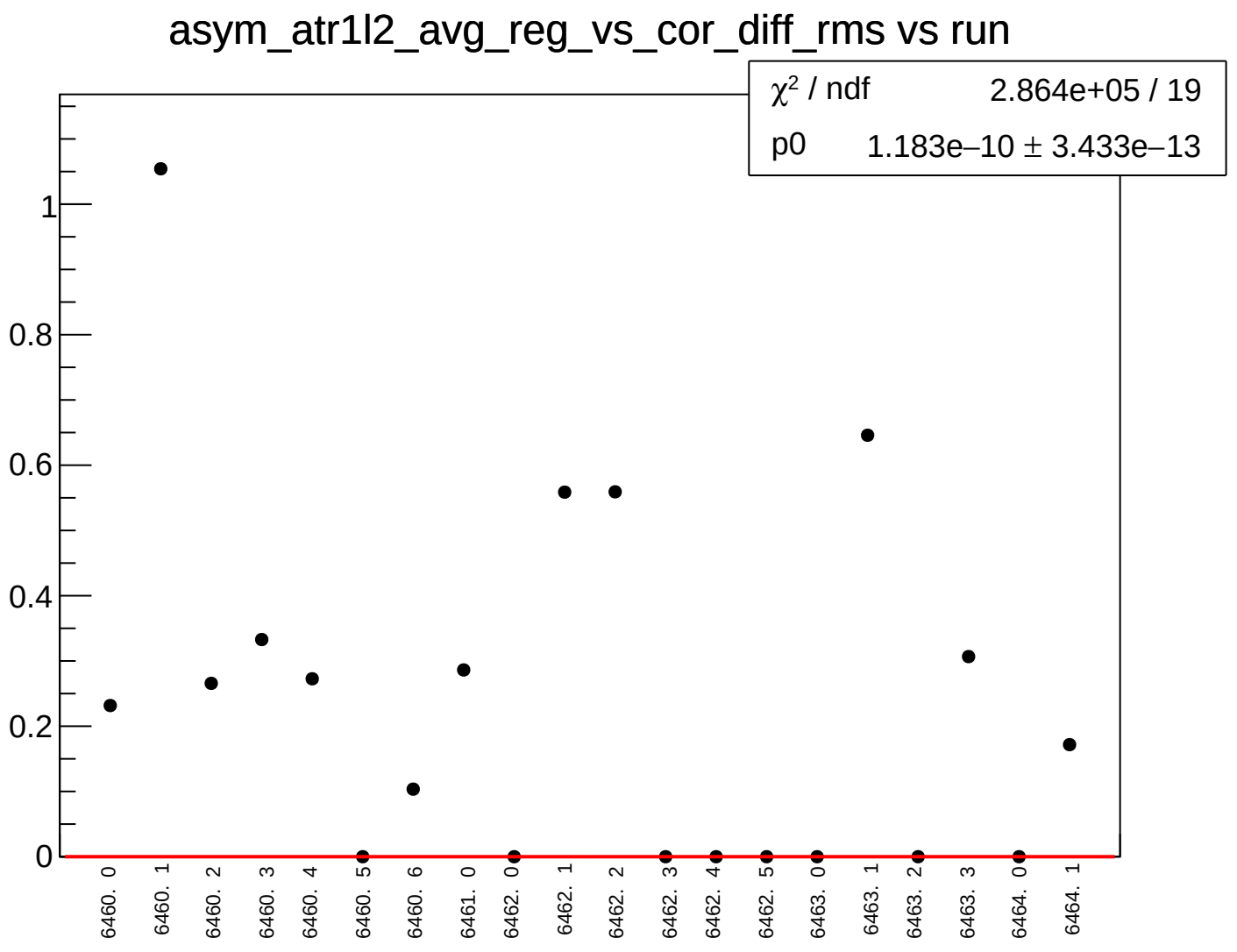

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 318.4 / 19
p0 4878 ± 7.666
5200
5100
5000
4900
4800
4700
4600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

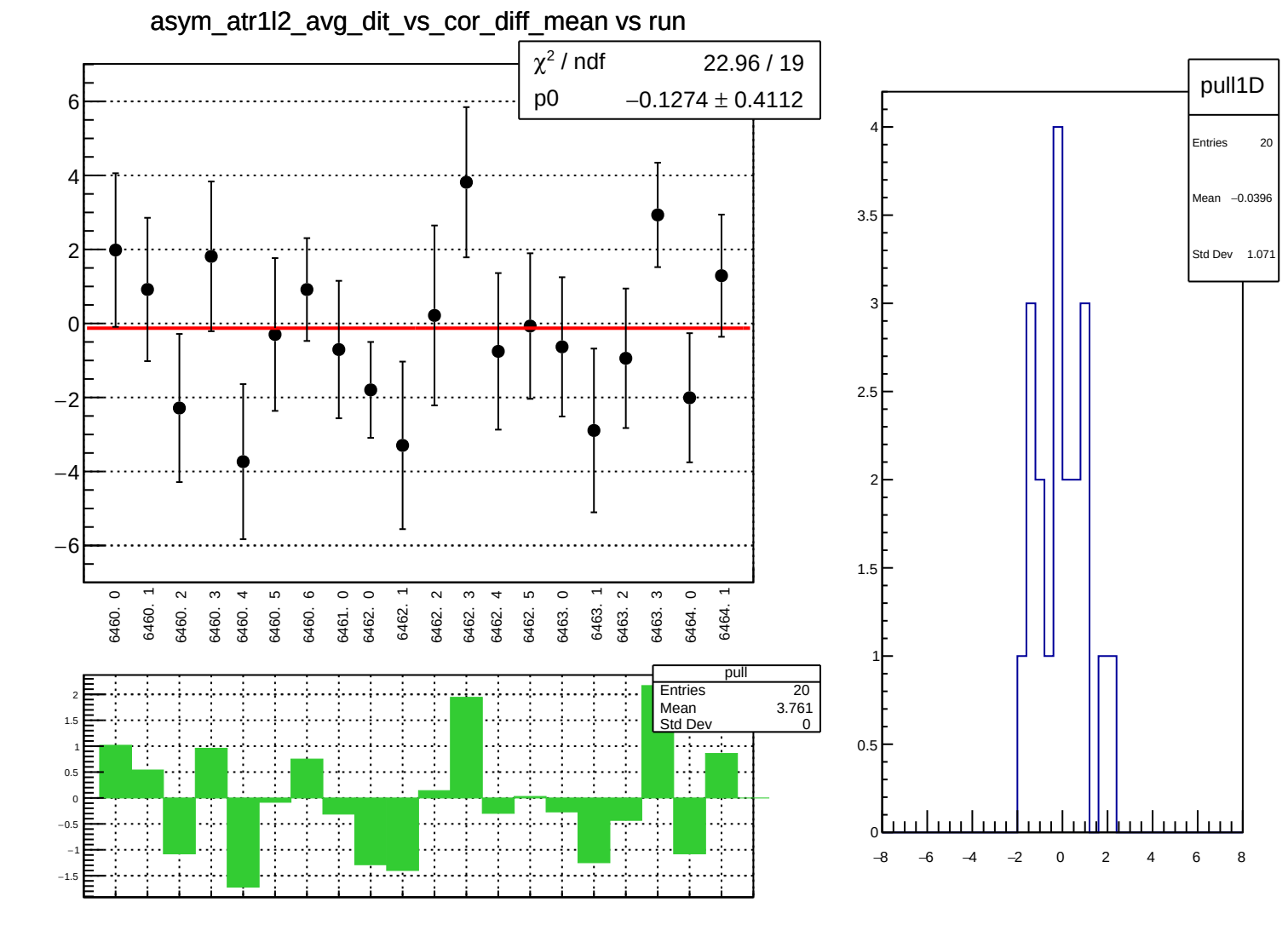

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 12.18 / 19
p0 −2923 ± 1.148e+04
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 63.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

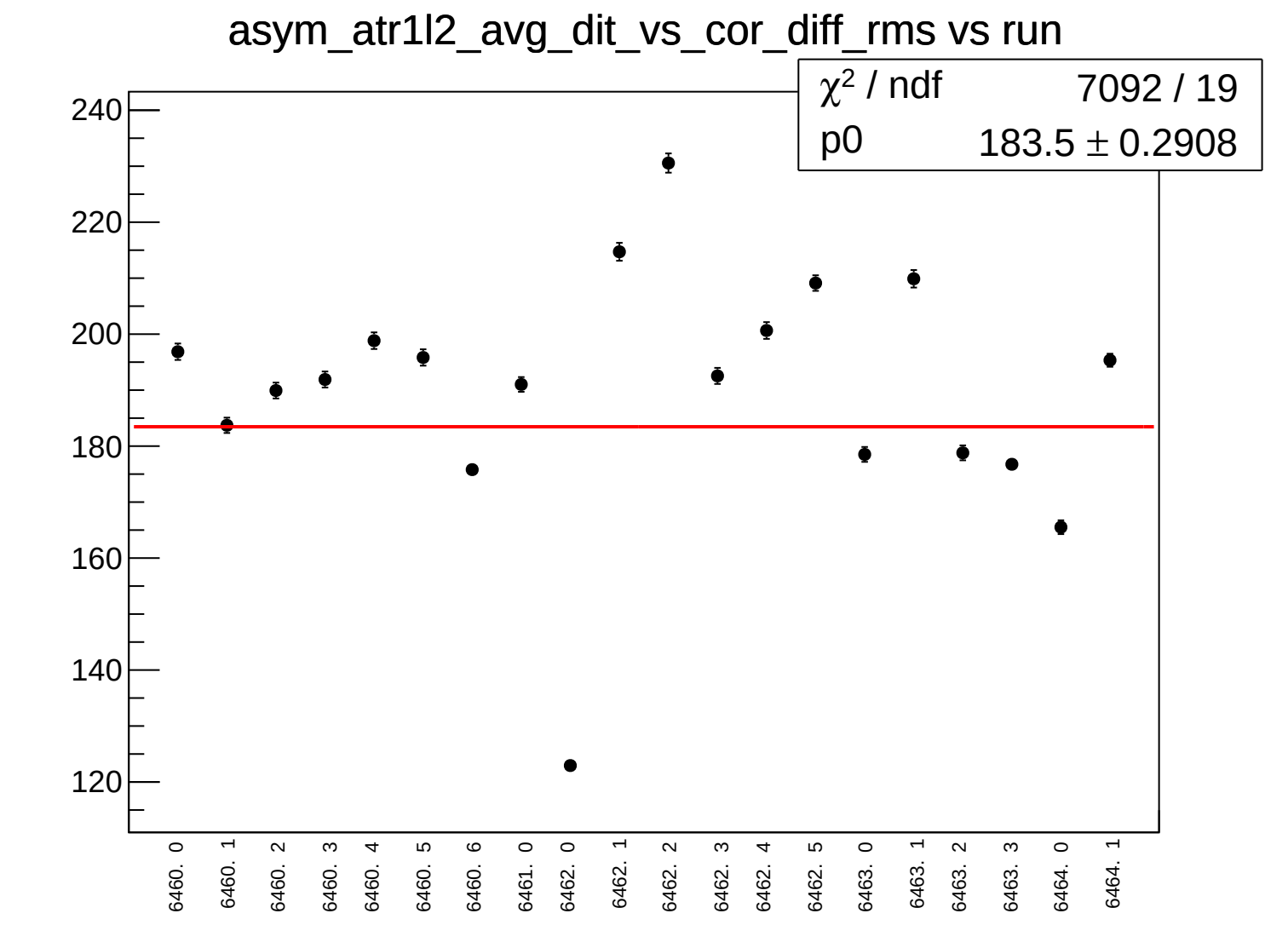

pull1D
Entries 20
Mean 0.02602
Std Dev 0.7799
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

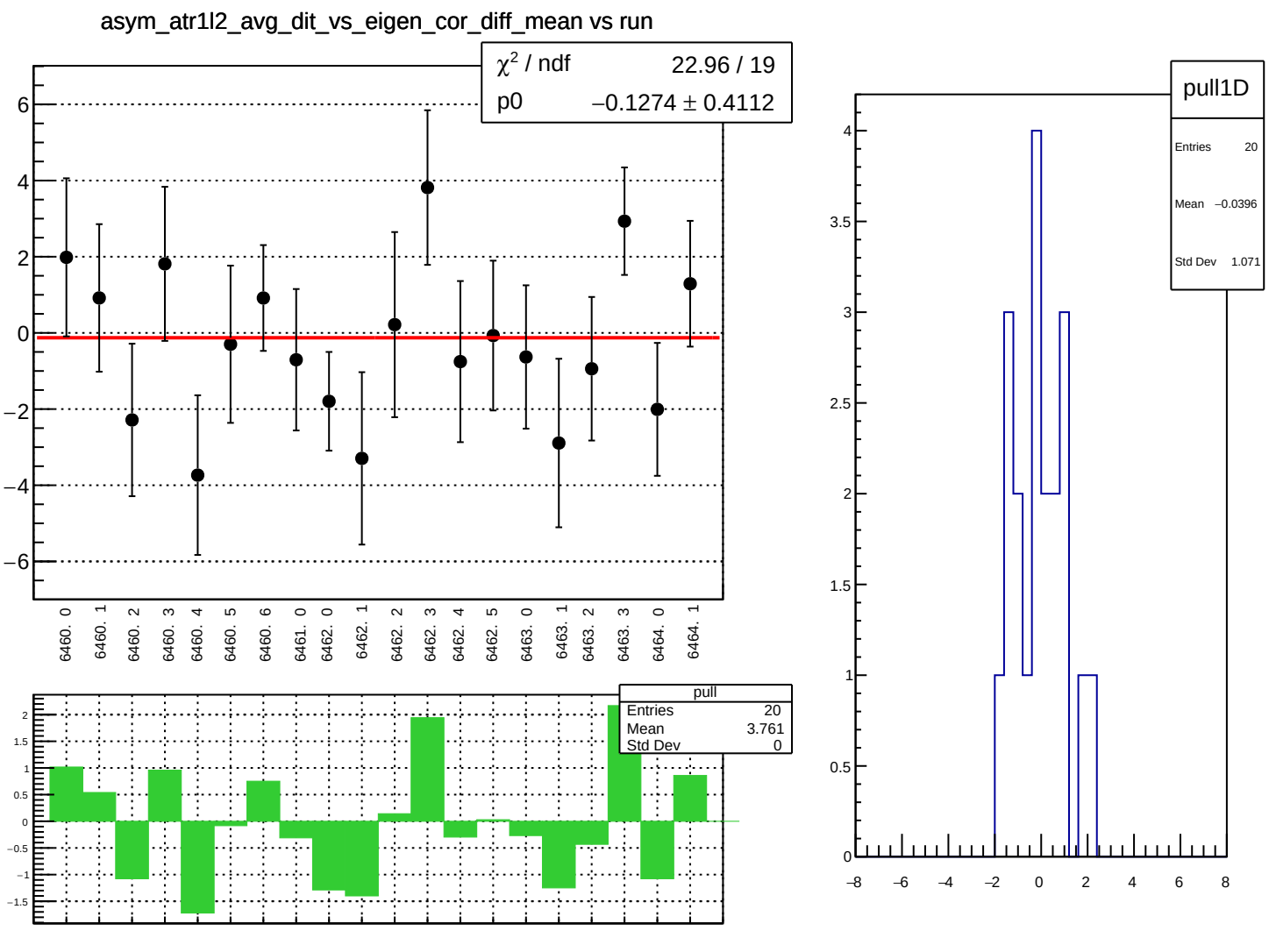

asym_atr1l2_avg_rms vs run
χ² / ndf 239.3 / 19
p0 5164 ± 8.115
5400
5300
5200
5100
5000
4900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

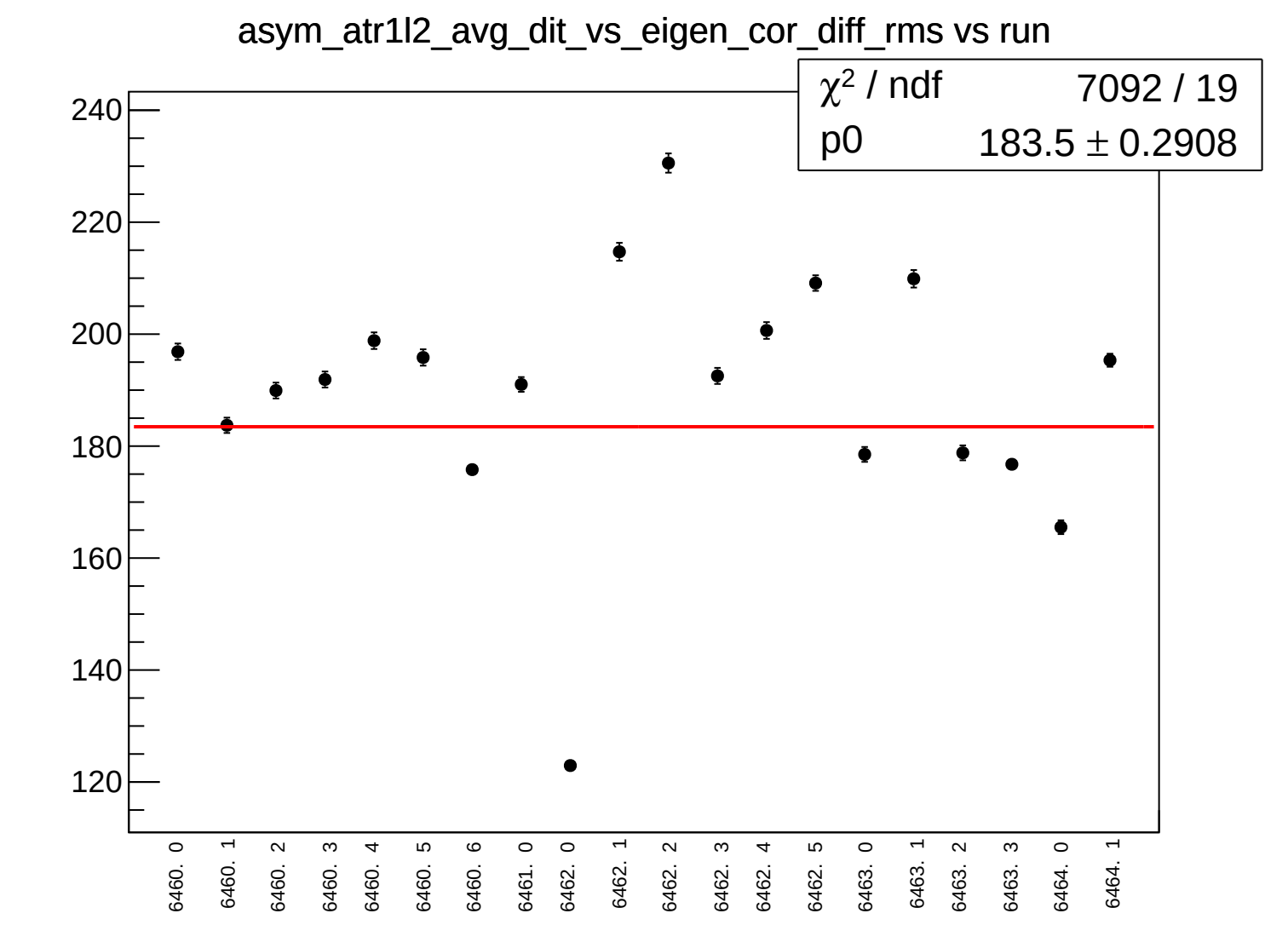

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.37 / 19
p0 6.803e−13 ± 4.854e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.06
Std Dev 11.49
pull1D
Entries 20
Mean −0.07148
Std Dev 1.007

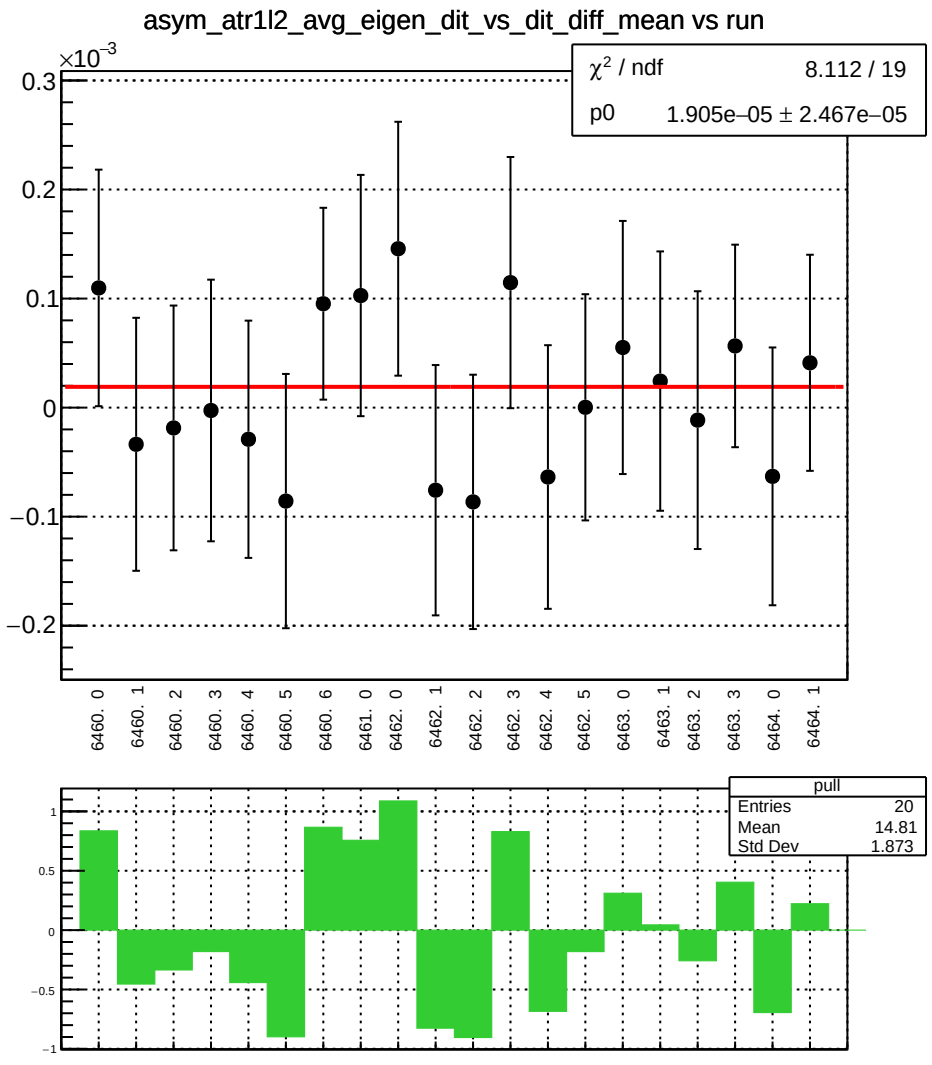

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.864e+05 / 19
p0 1.183e−10 ± 3.433e−13
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

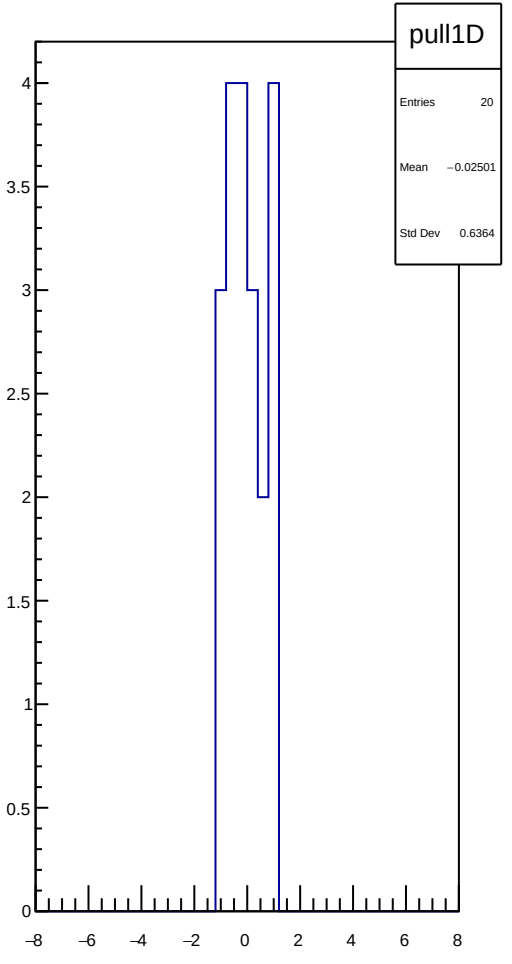

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 22.96 / 19
p0 −0.1274 ± 0.4112
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.761
Std Dev 0
pull1D
Entries 20
Mean −0.0396
Std Dev 1.071

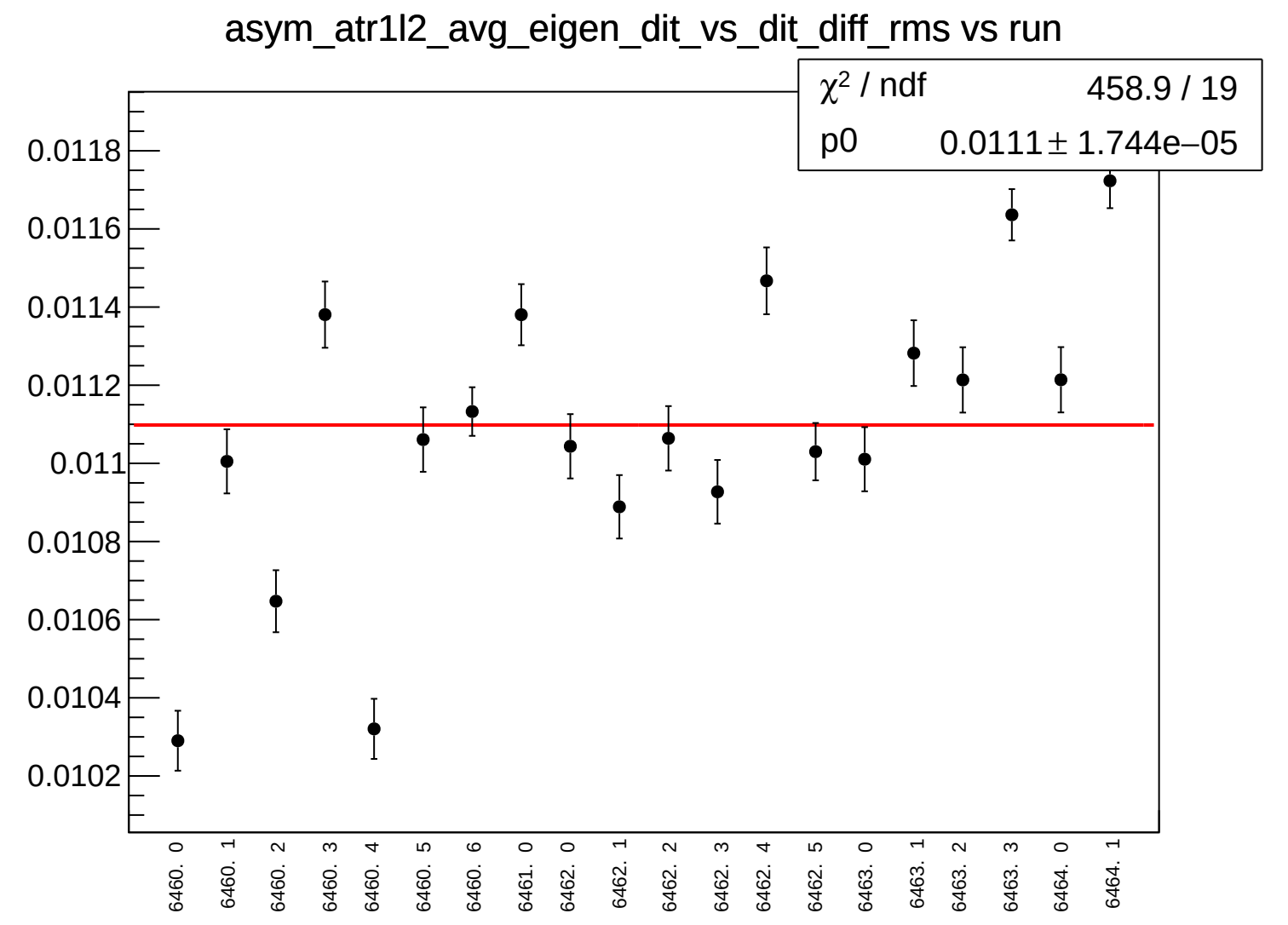

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7092 / 19
p0 183.5 ± 0.2908
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

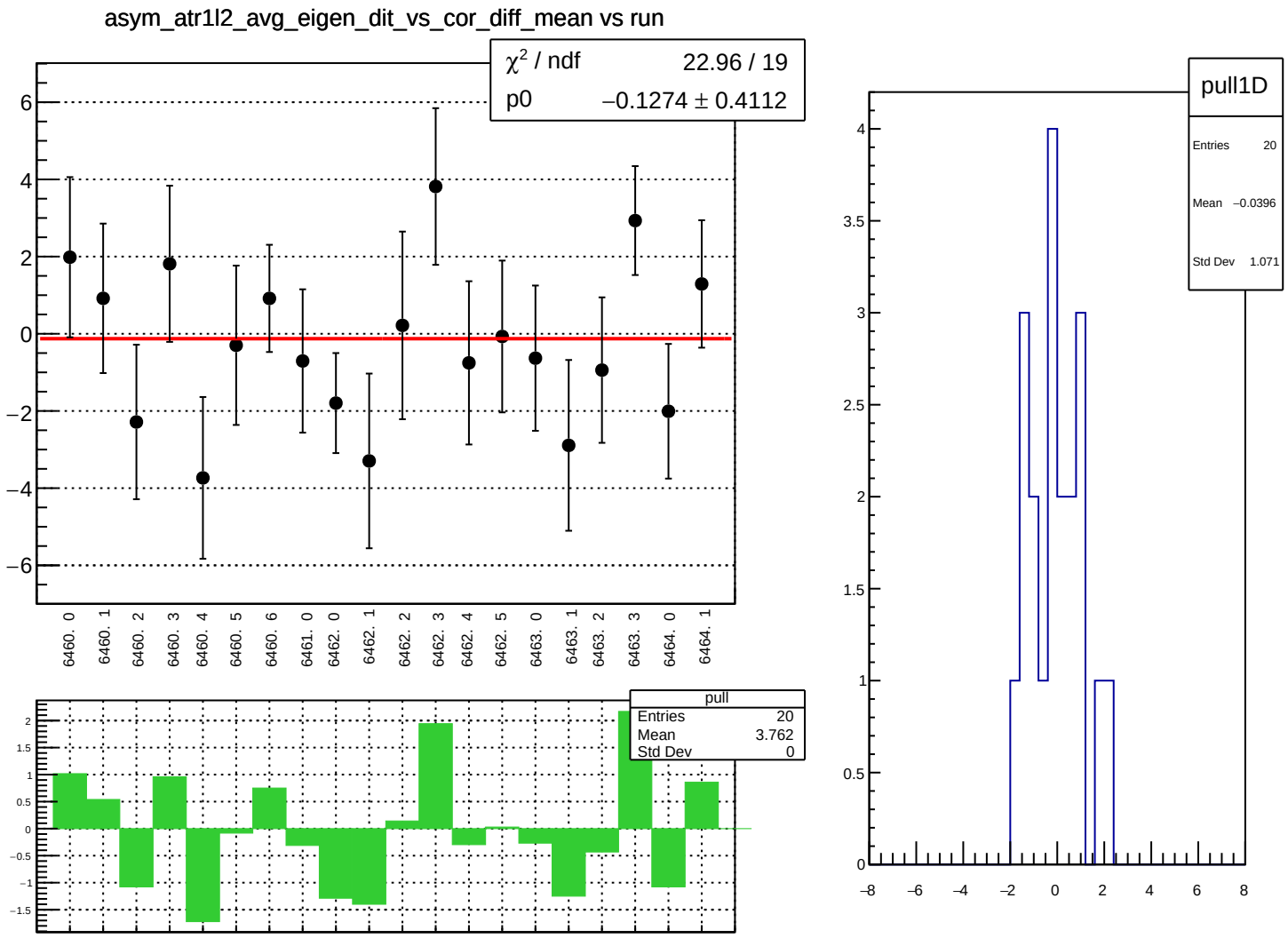

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.96 / 19
p0 −0.1274 ± 0.4112
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.761
Std Dev 0
pull1D
Entries 20
Mean −0.0396
Std Dev 1.071

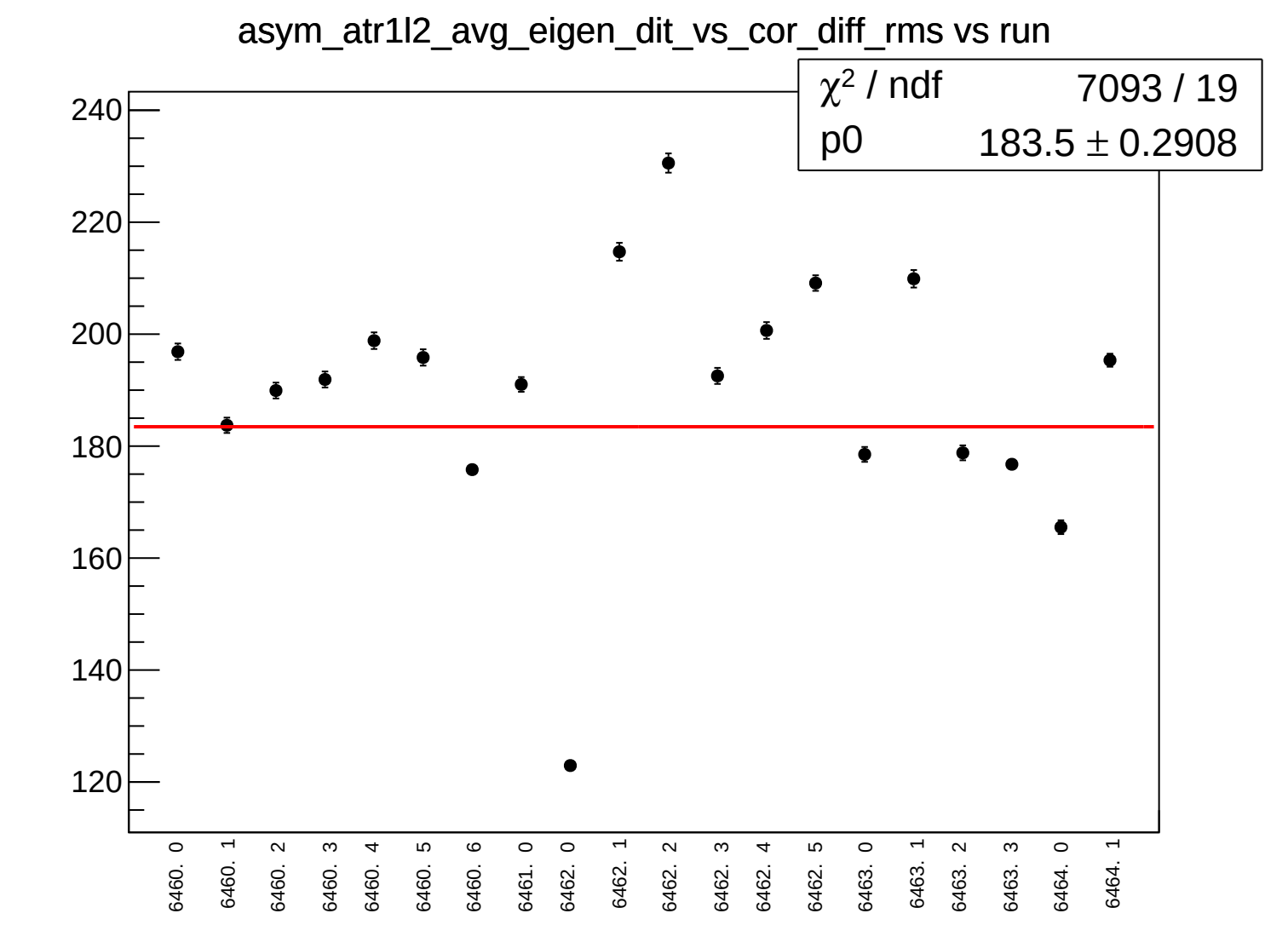

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7092 / 19
p0 183.5 ± 0.2908
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

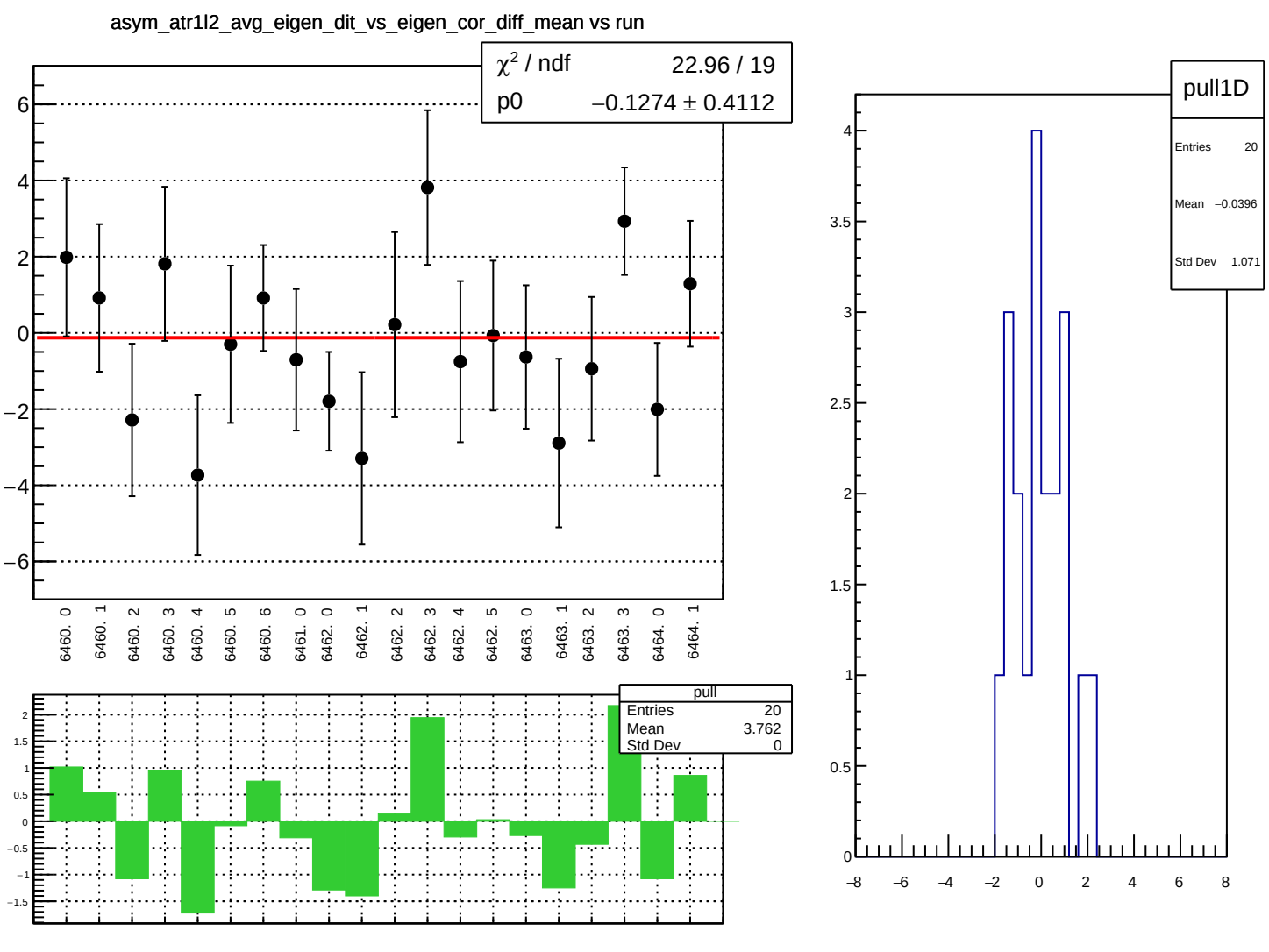

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 8.112 / 19
p0 1.905e−05 ± 2.467e−05
0.3
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 14.81
Std Dev 1.873
1
0.5
0
−0.5
−1

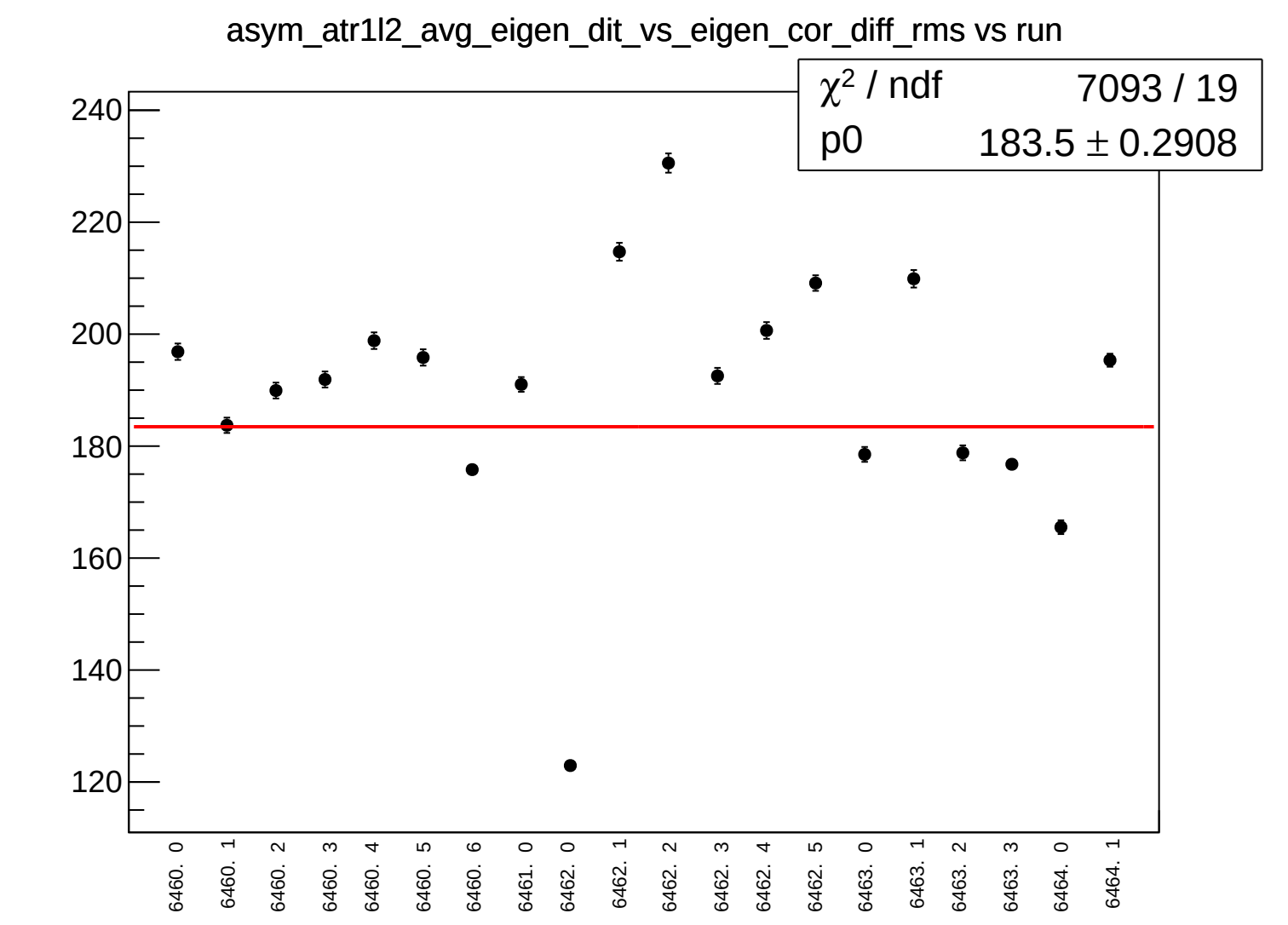

pull1D
Entries 20
Mean −0.02501
Std Dev 0.6364
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

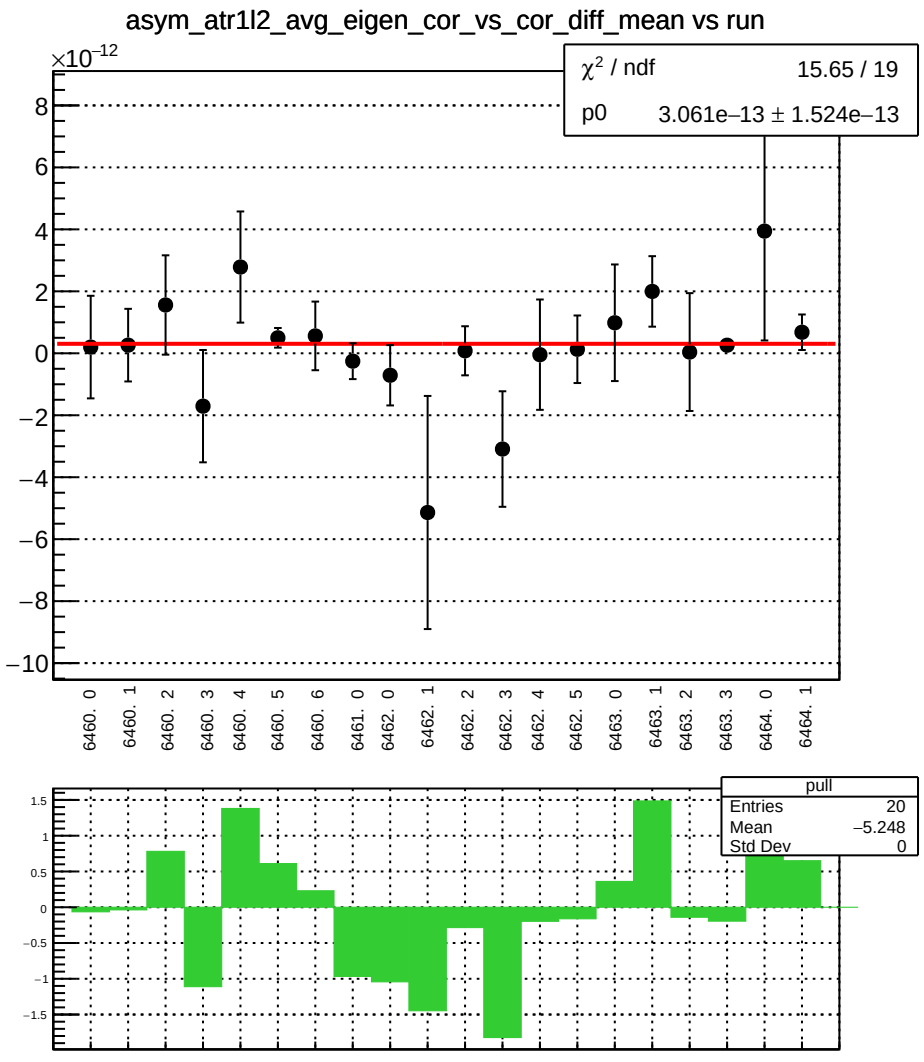

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 458.9 / 19
p0 0.0111 ± 1.744e−05
0.0118
0.0116
0.0114
0.0112
0.011
0.0108
0.0106
0.0104
0.0102
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

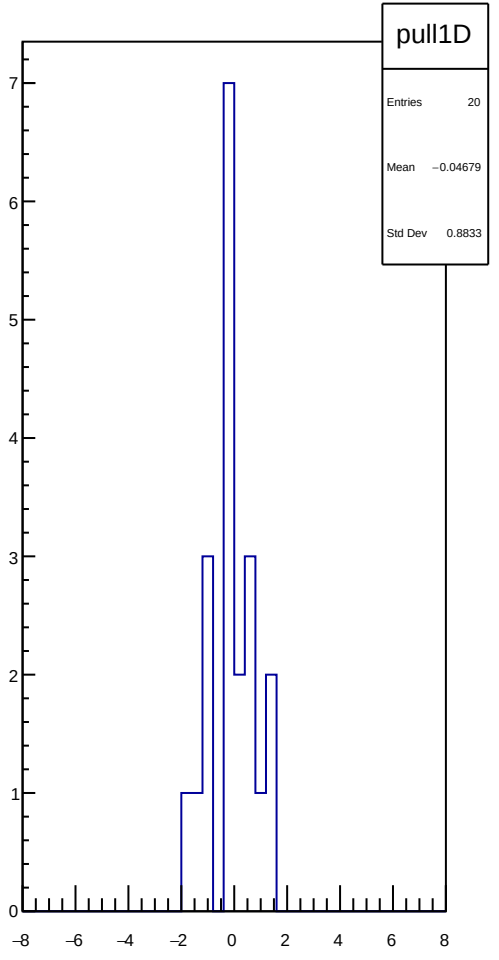

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.96 / 19
p0 −0.1274 ± 0.4112
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.762
Std Dev 0
pull1D
Entries 20
Mean −0.0396
Std Dev 1.071

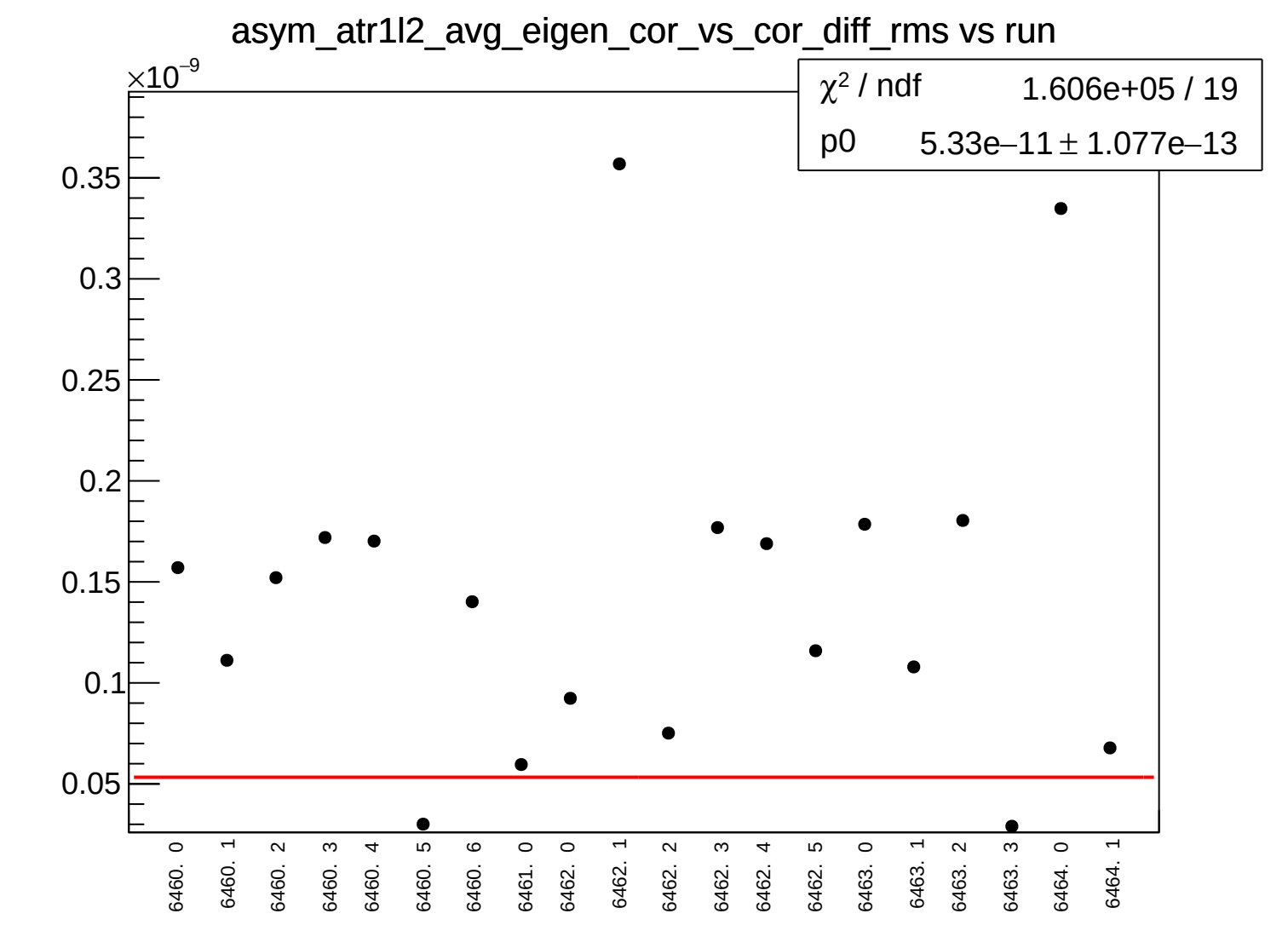

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7093 / 19
p0 183.5 ± 0.2908
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

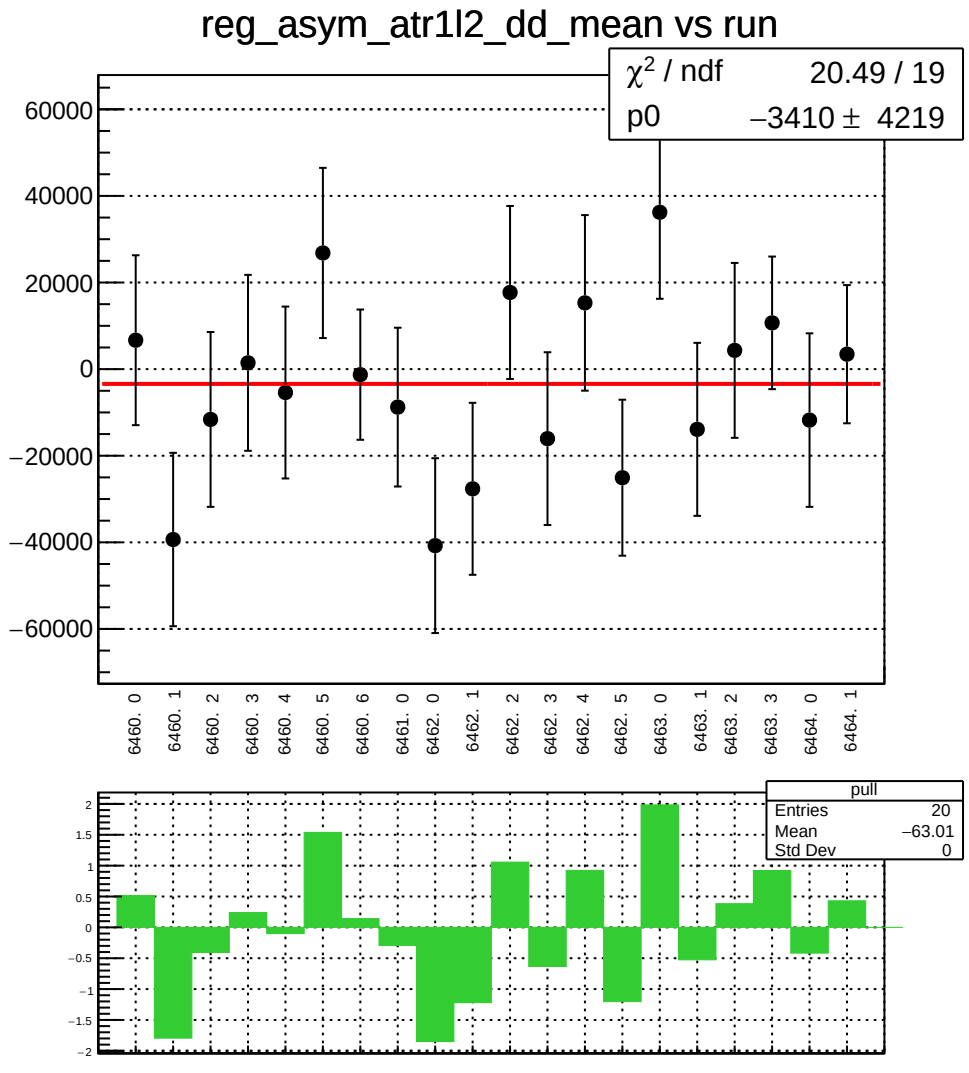

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.96 / 19
p0 −0.1274 ± 0.4112
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.762
Std Dev 0
pull1D
Entries 20
Mean −0.0396
Std Dev 1.071

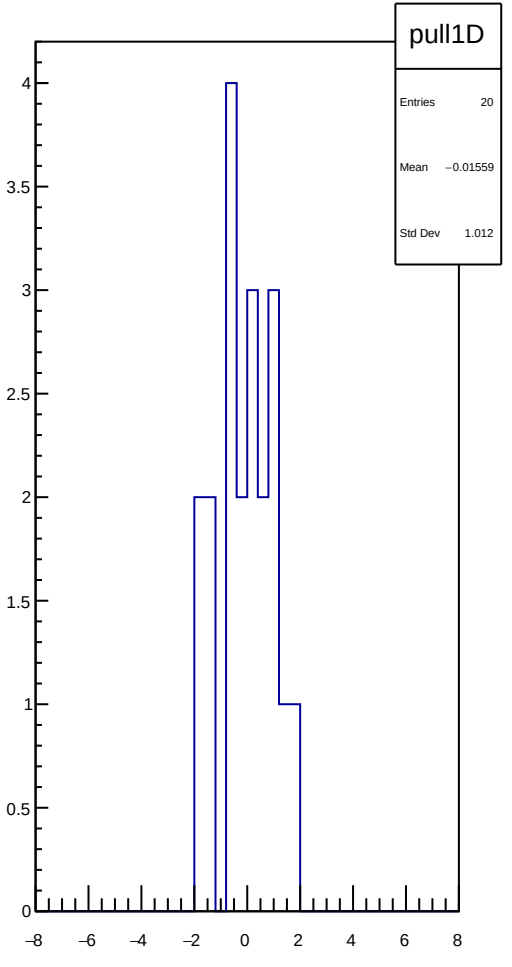

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7093 / 19
p0 183.5 ± 0.2908
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

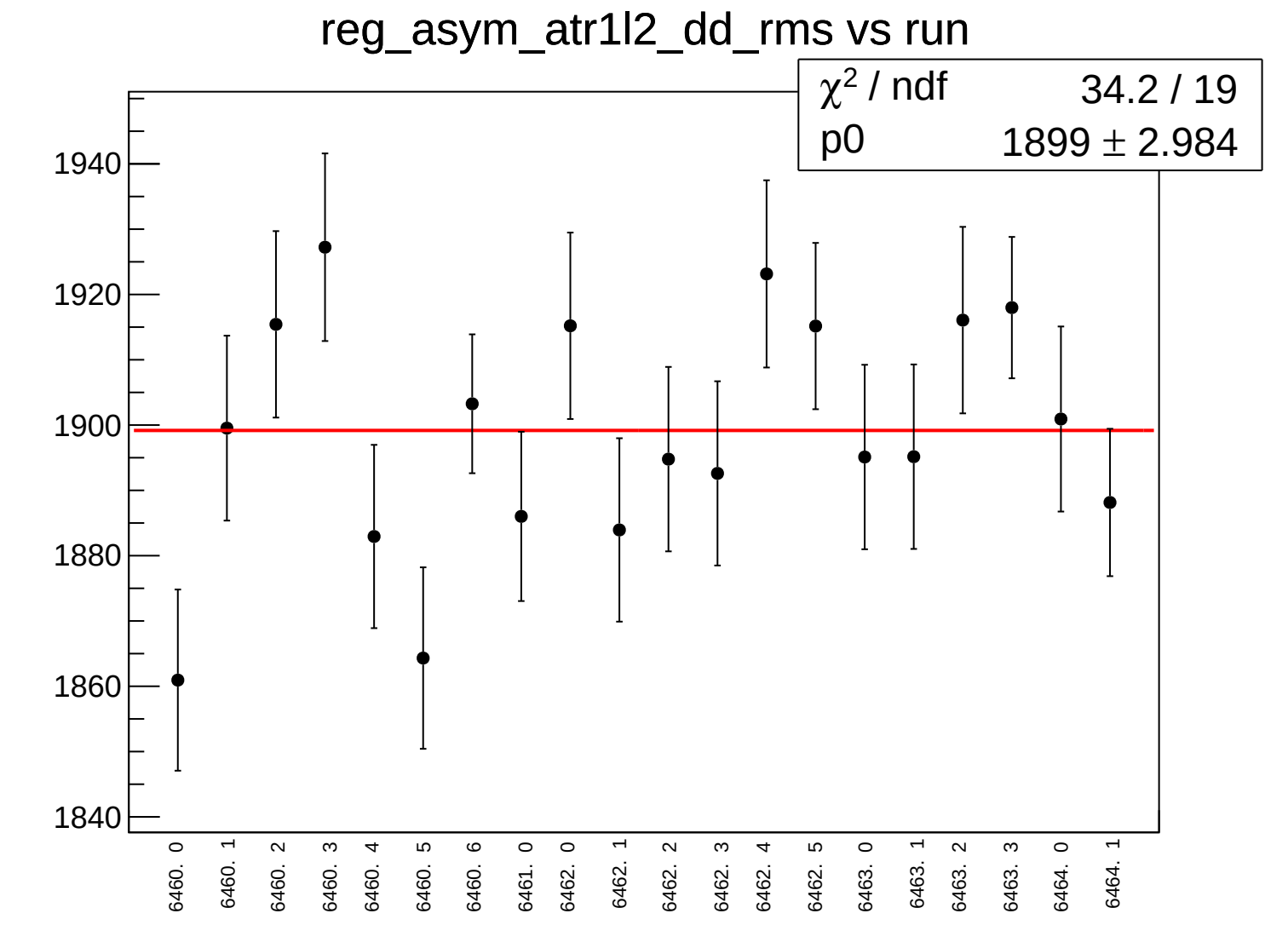

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 15.65 / 19
p0 3.061e−13 ± 1.524e−13
8
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −5.248
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

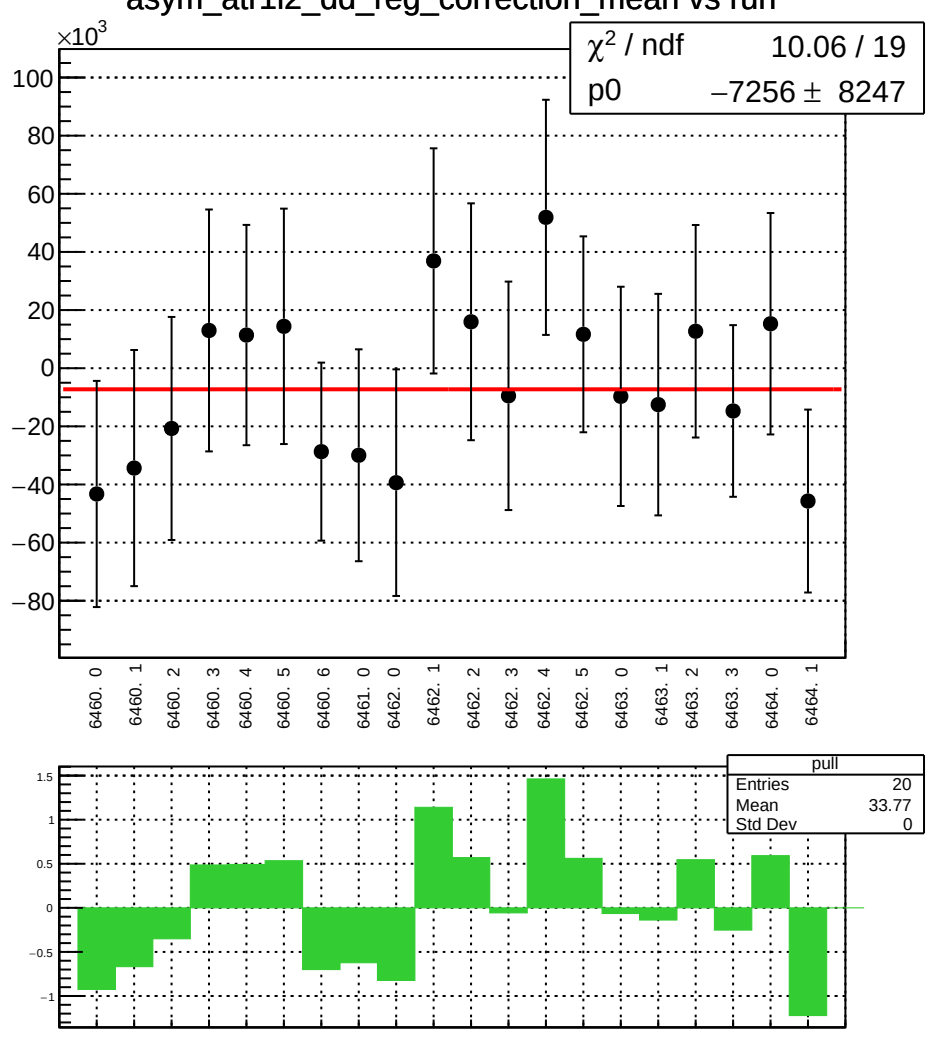

pull1D
Entries 20
Mean −0.04679
Std Dev 0.8833
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

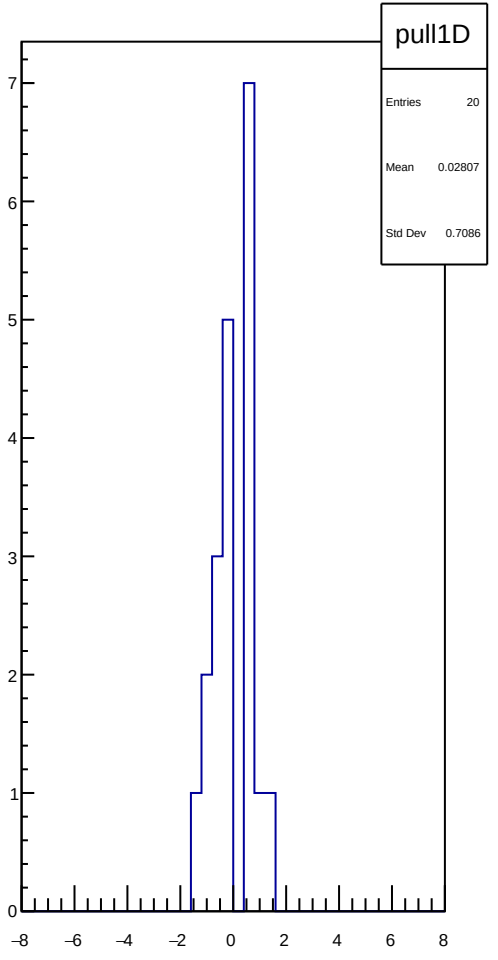

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.606e+05 / 19
p0 5.33e−11 ± 1.077e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

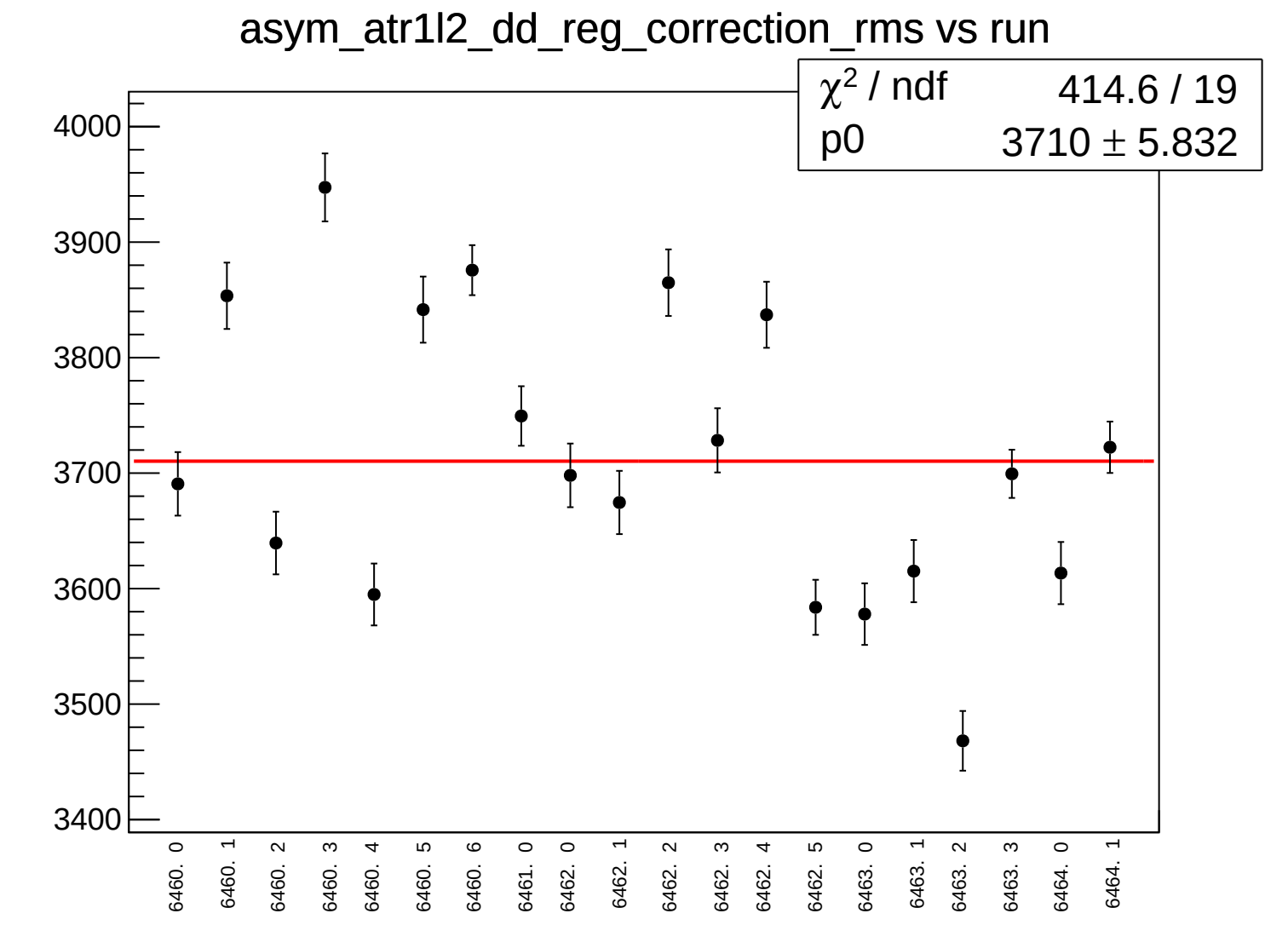

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 20.49 / 19
p0 −3410 ± 4219
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −63.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

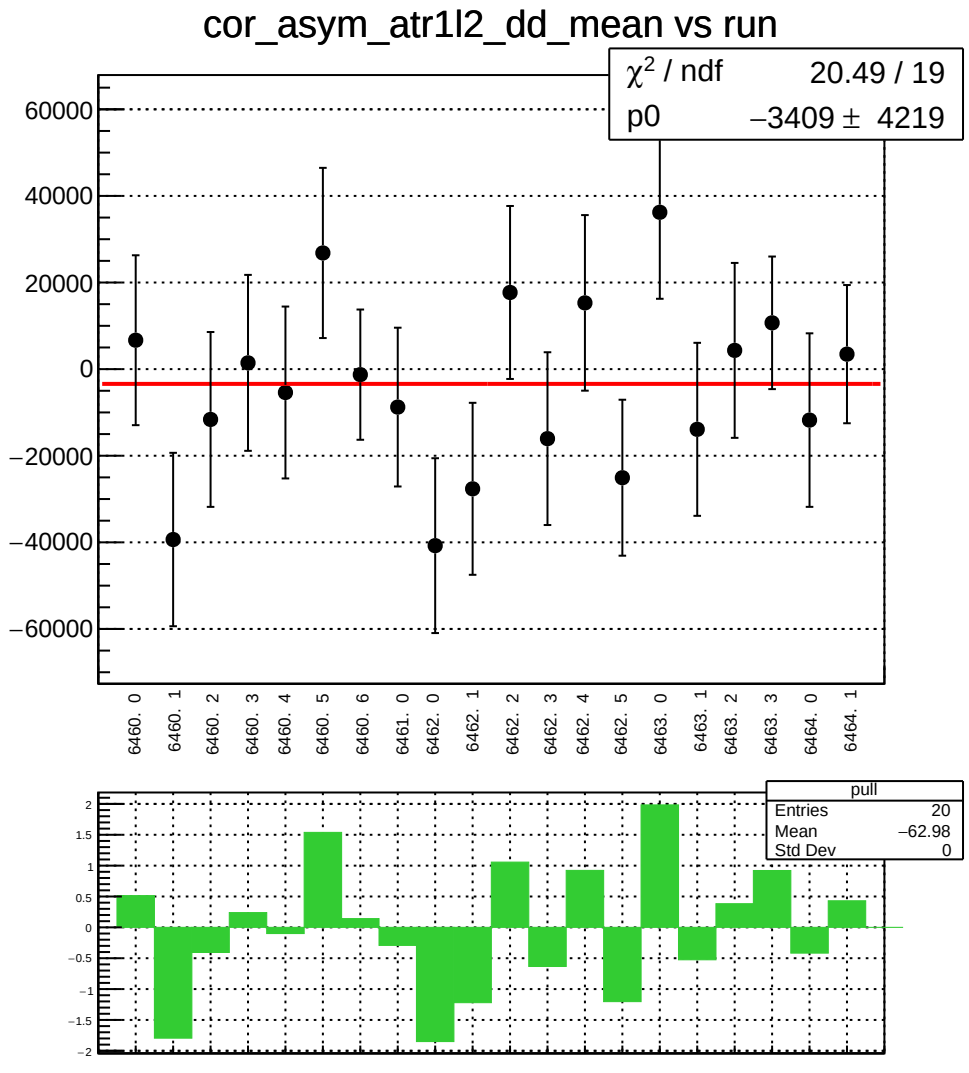

pull1D
Entries 20
Mean −0.01559
Std Dev 1.012
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

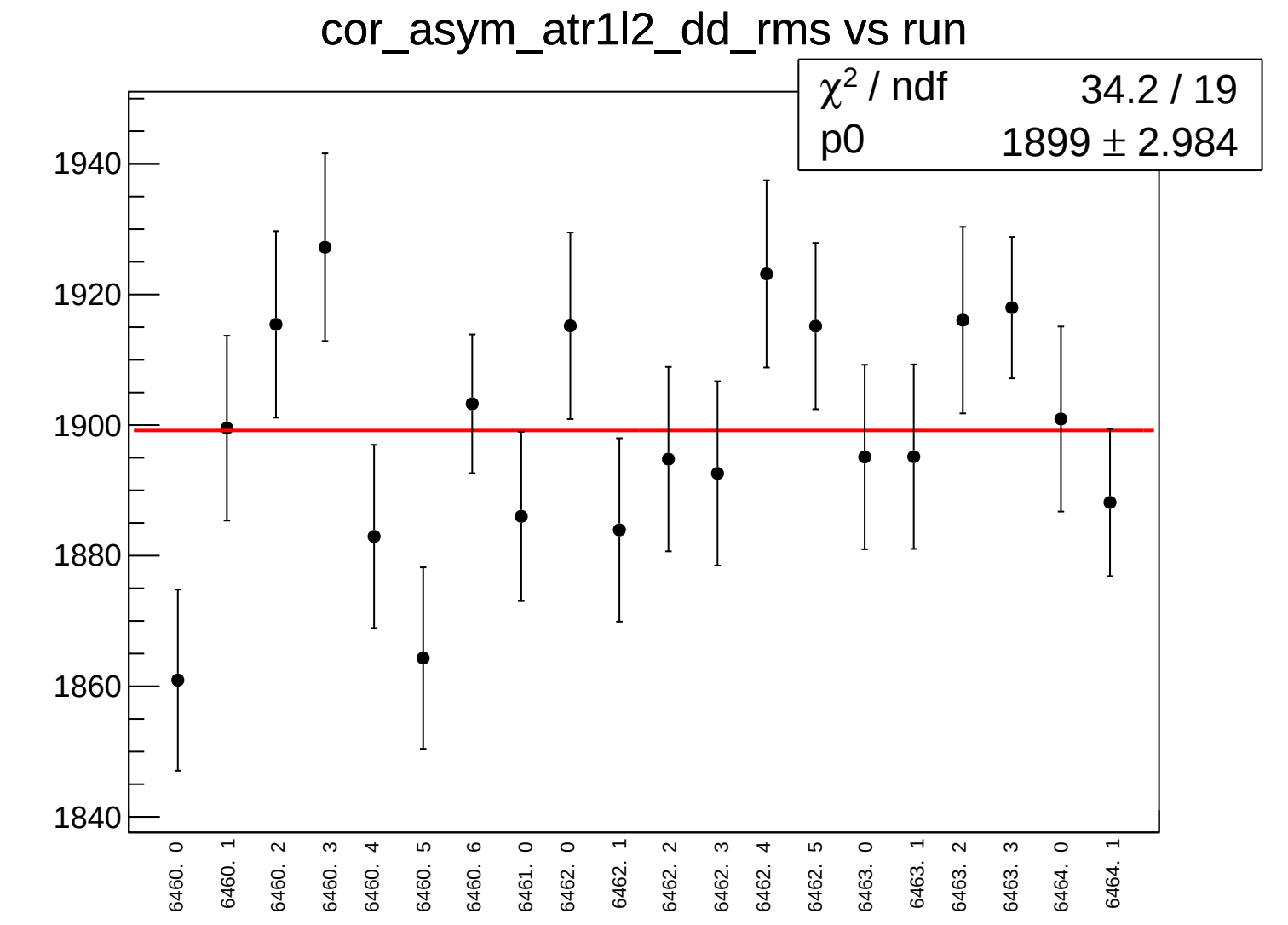

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 34.2 / 19
p0 1899 ± 2.984
1940
1920
1900
1880
1860
1840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

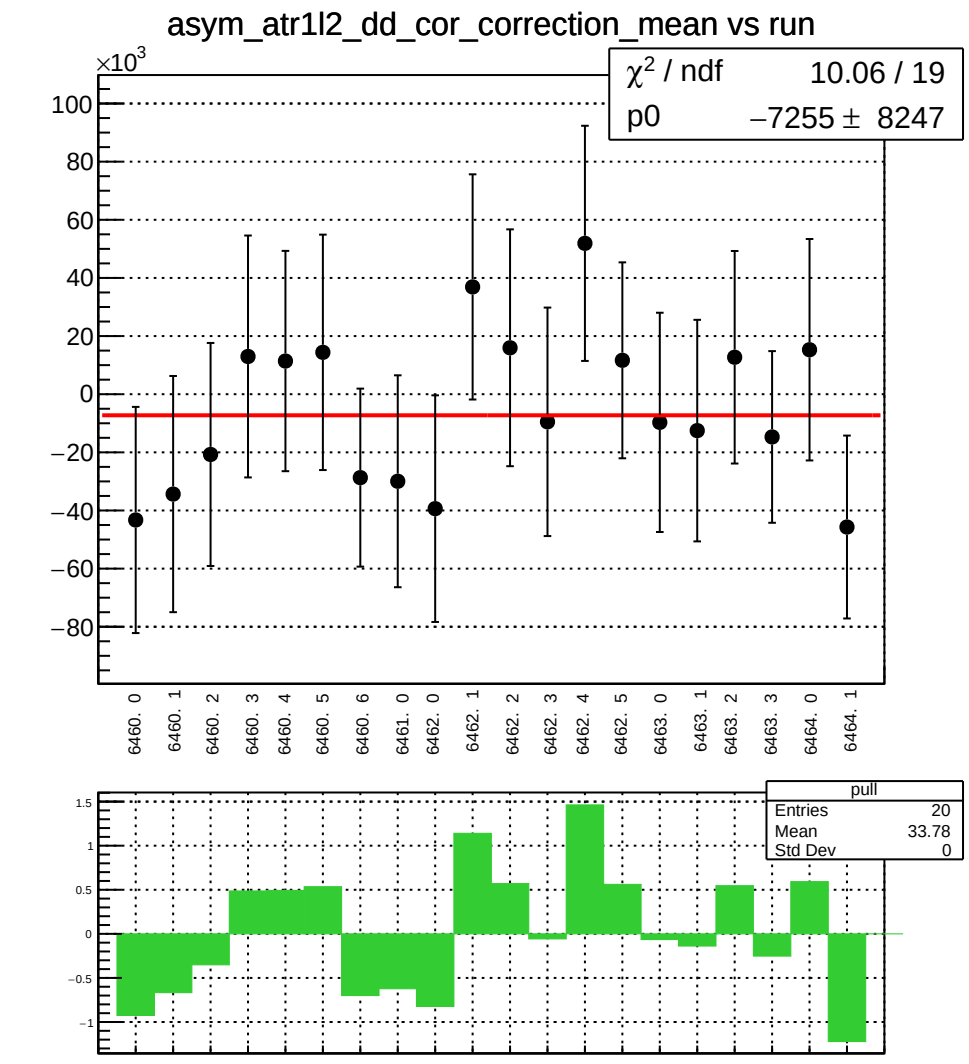

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 10.06 / 19
p0 −7256 ± 8247
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1

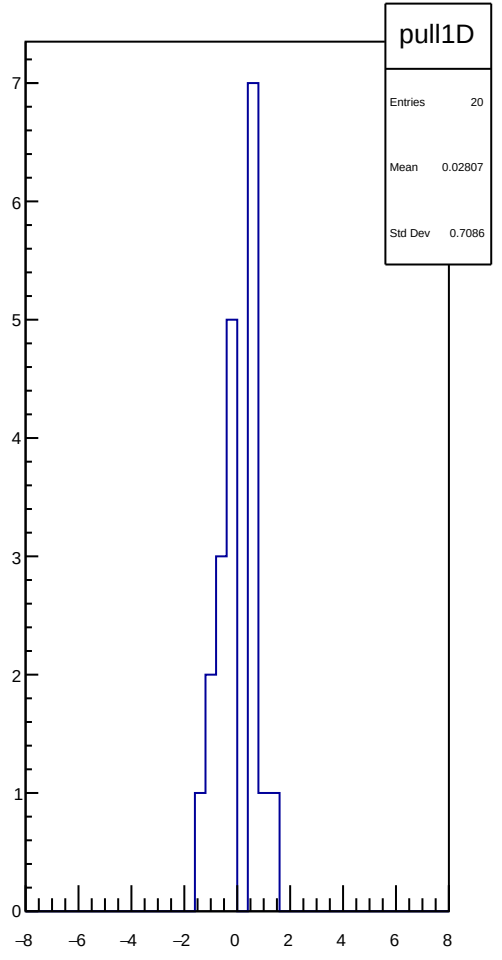

pull1D
Entries 20
Mean 0.02807
Std Dev 0.7086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

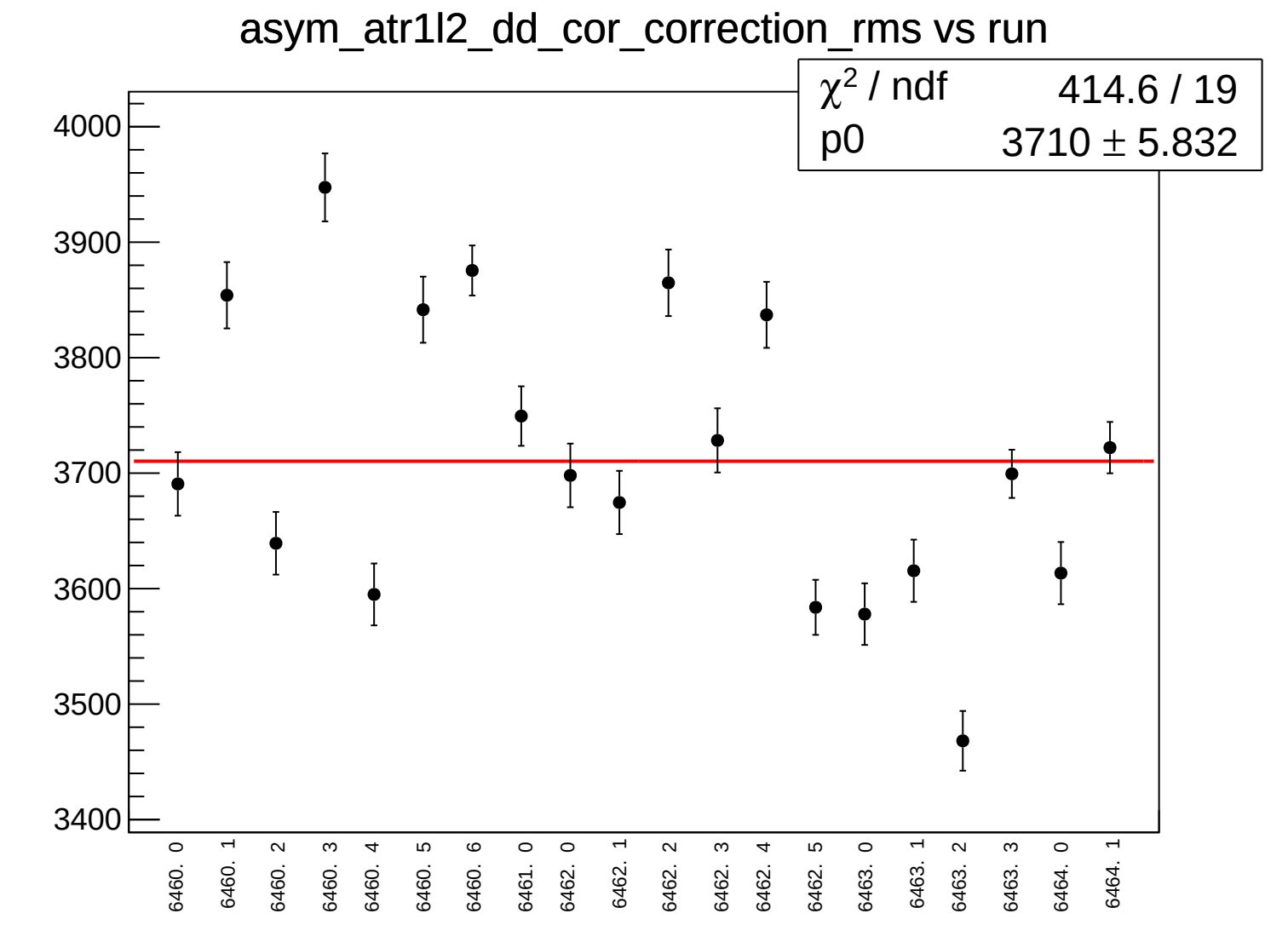

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 414.6 / 19
p0 3710 ± 5.832
4000
3900
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

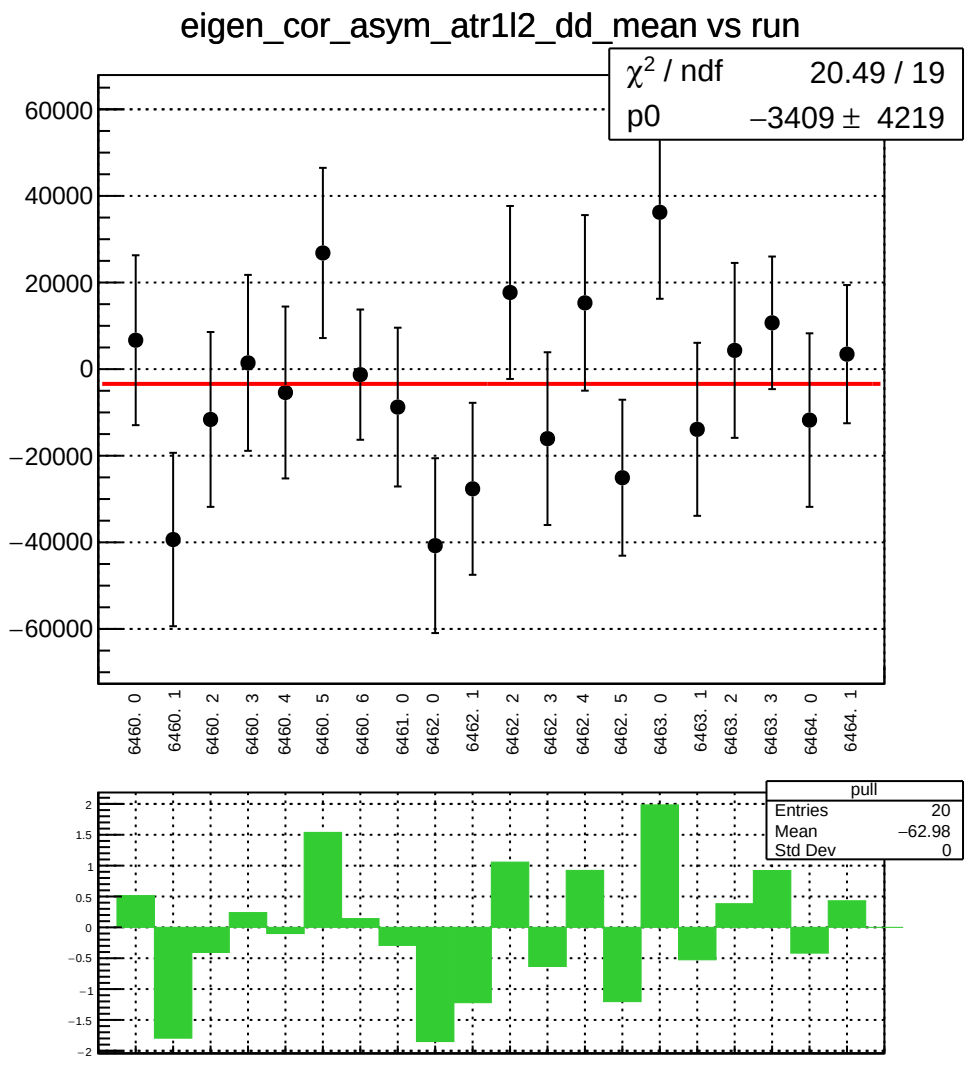

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 20.49 / 19
p0 −3409 ± 4219
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −62.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.0156
Std Dev 1.012
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

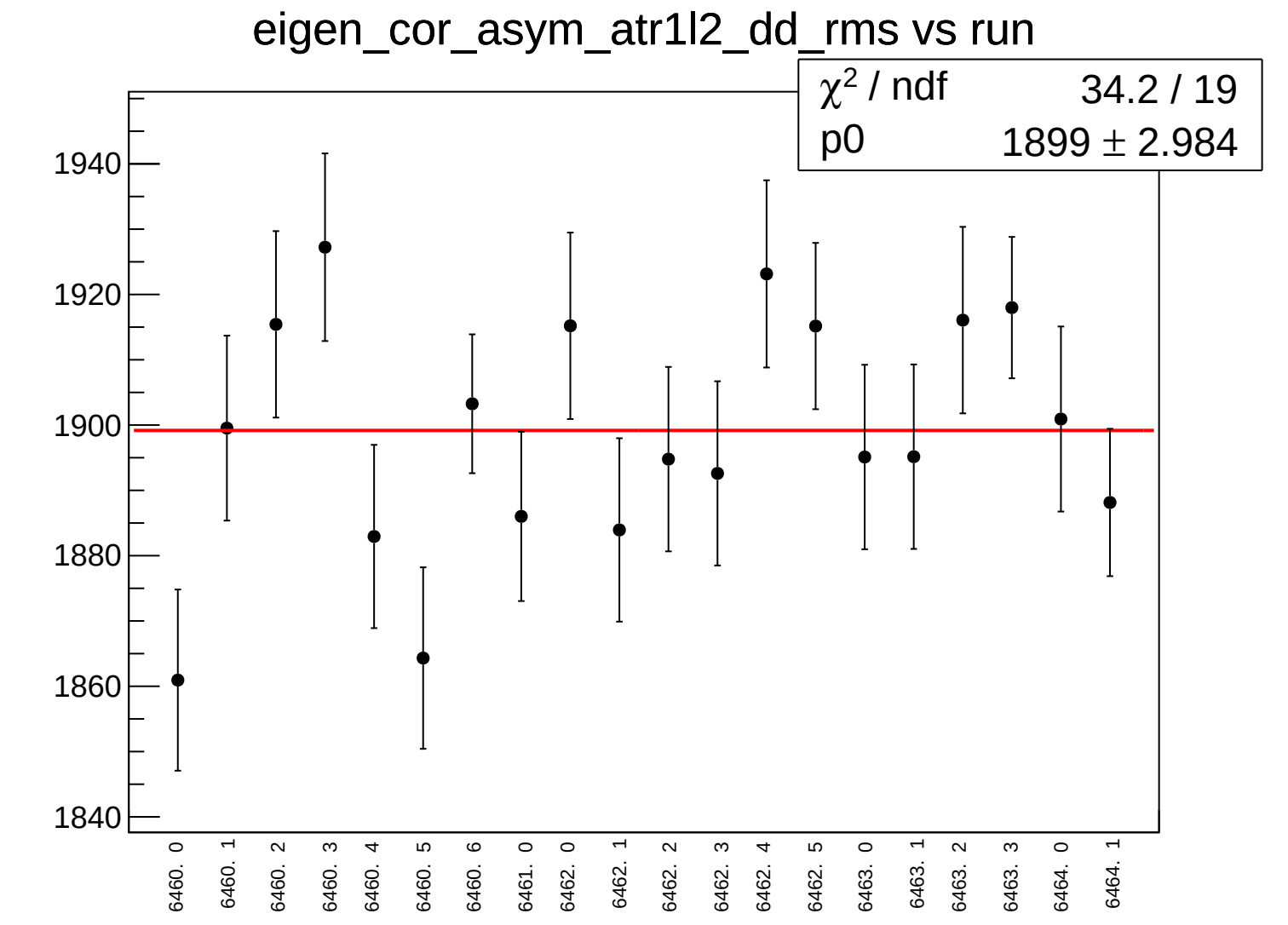

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 34.2 / 19
p0 1899 ± 2.984
1940
1920
1900
1880
1860
1840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

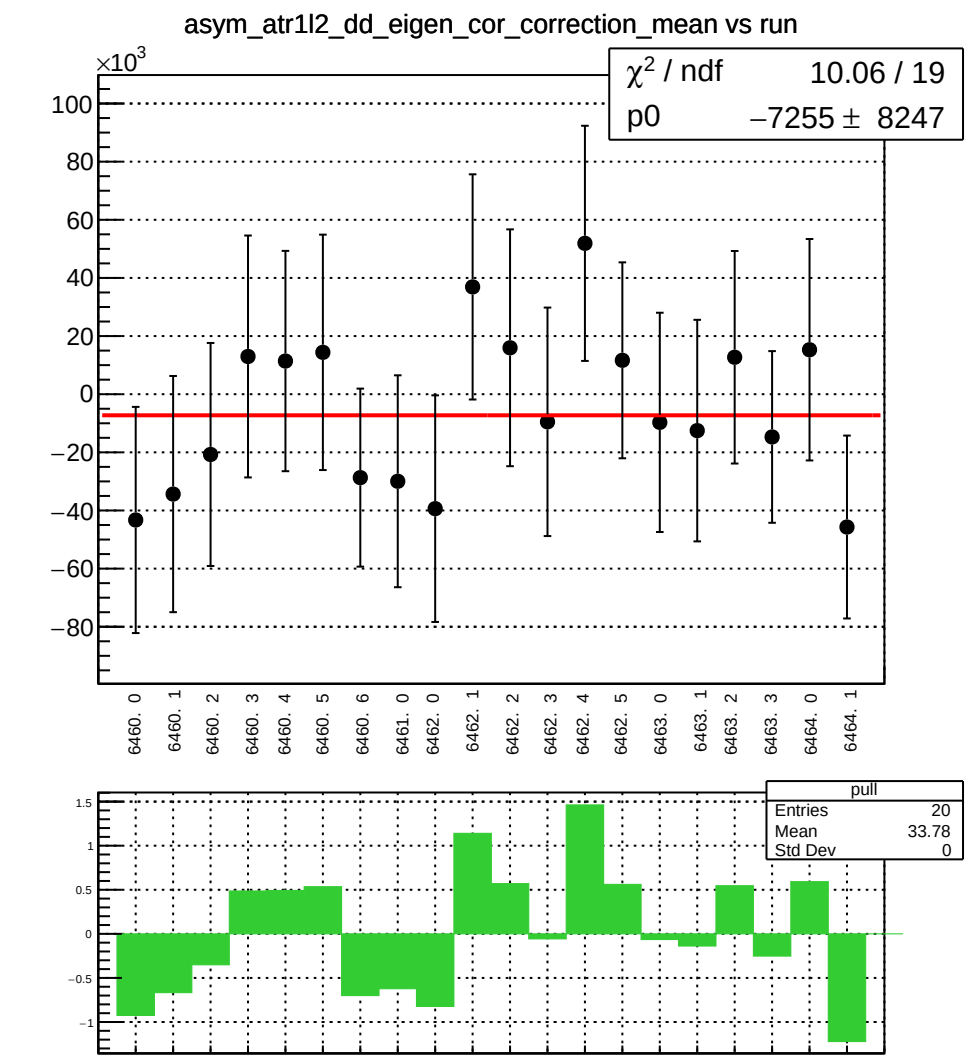

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 10.06 / 19
p0 −7255 ± 8247
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1

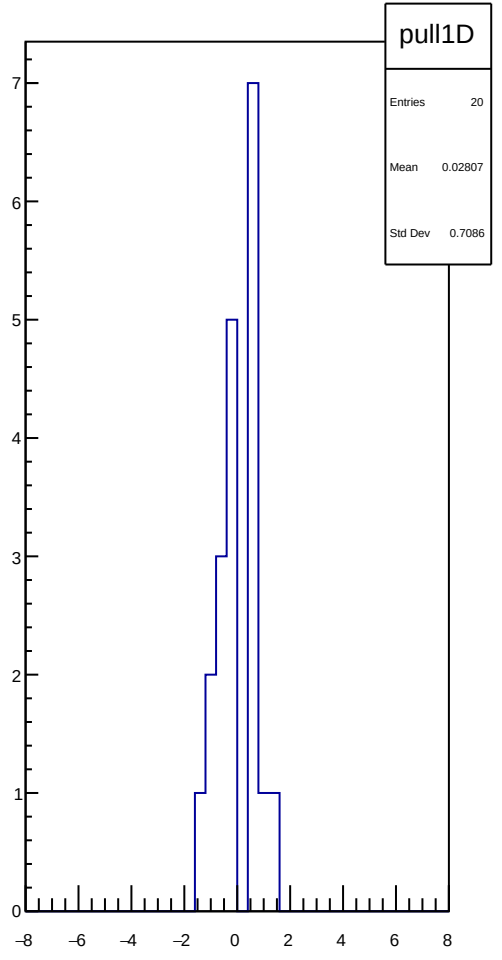

pull1D
Entries 20
Mean 0.02807
Std Dev 0.7086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

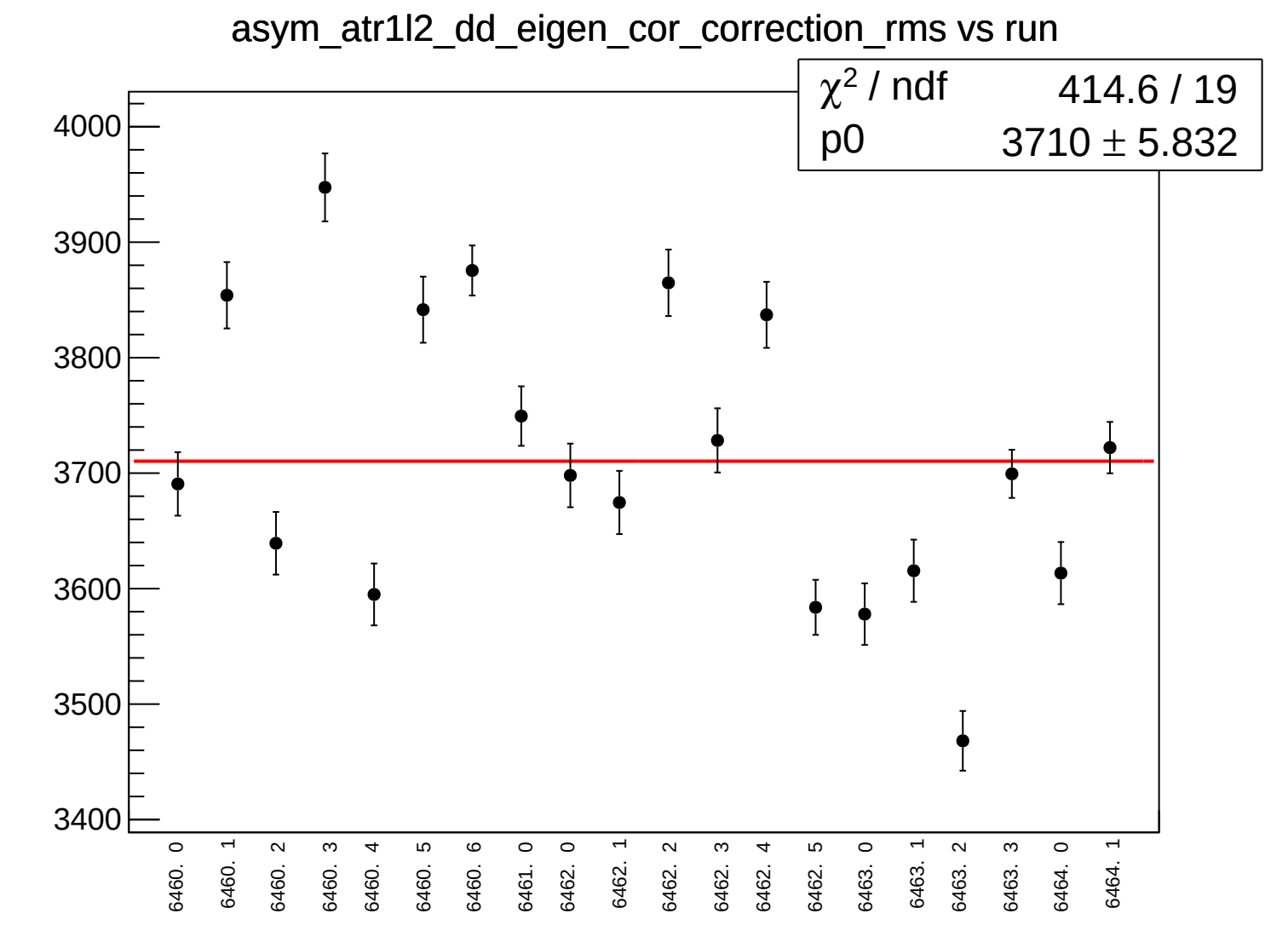

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 414.6 / 19
p0 3710 ± 5.832
4000
3900
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

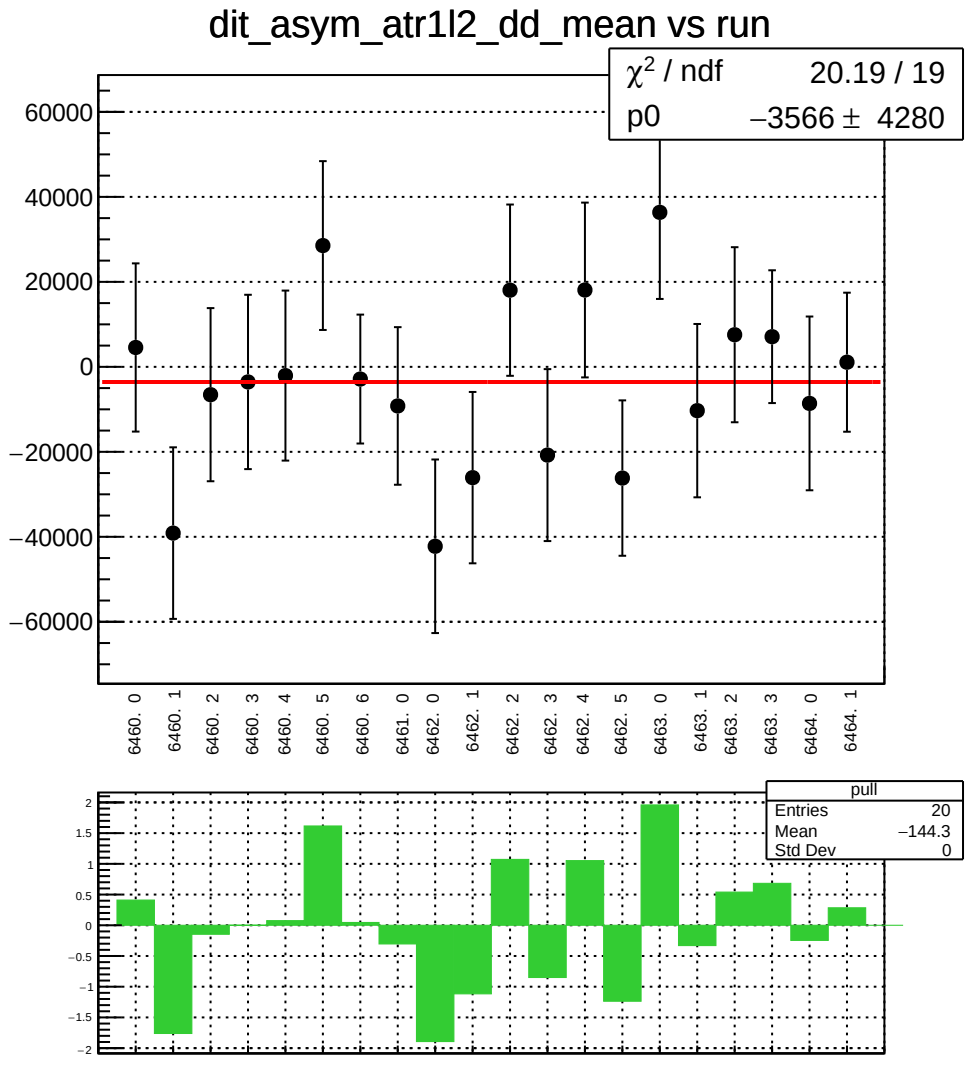

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 20.49 / 19
p0 −3409 ± 4219
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −62.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.0156
Std Dev 1.012
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

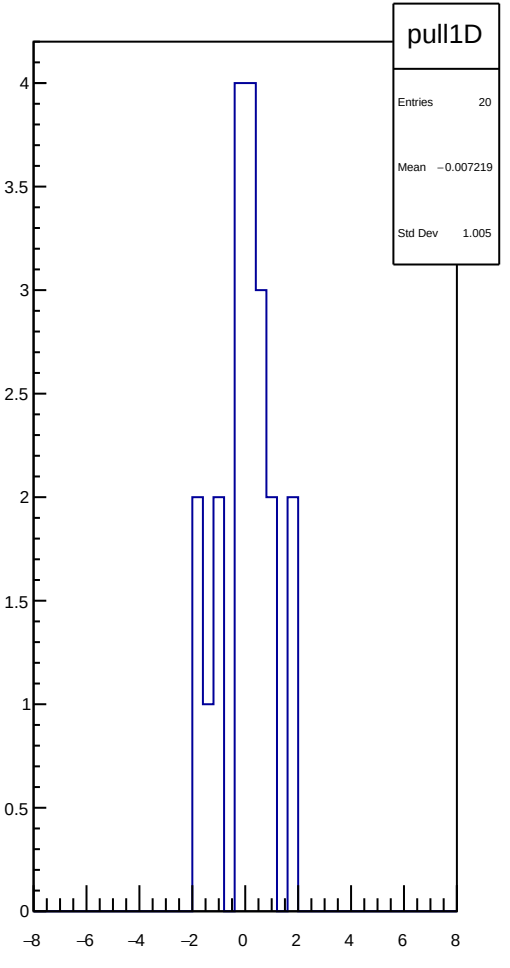

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 34.2 / 19
p0 1899 ± 2.984
1940
1920
1900
1880
1860
1840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

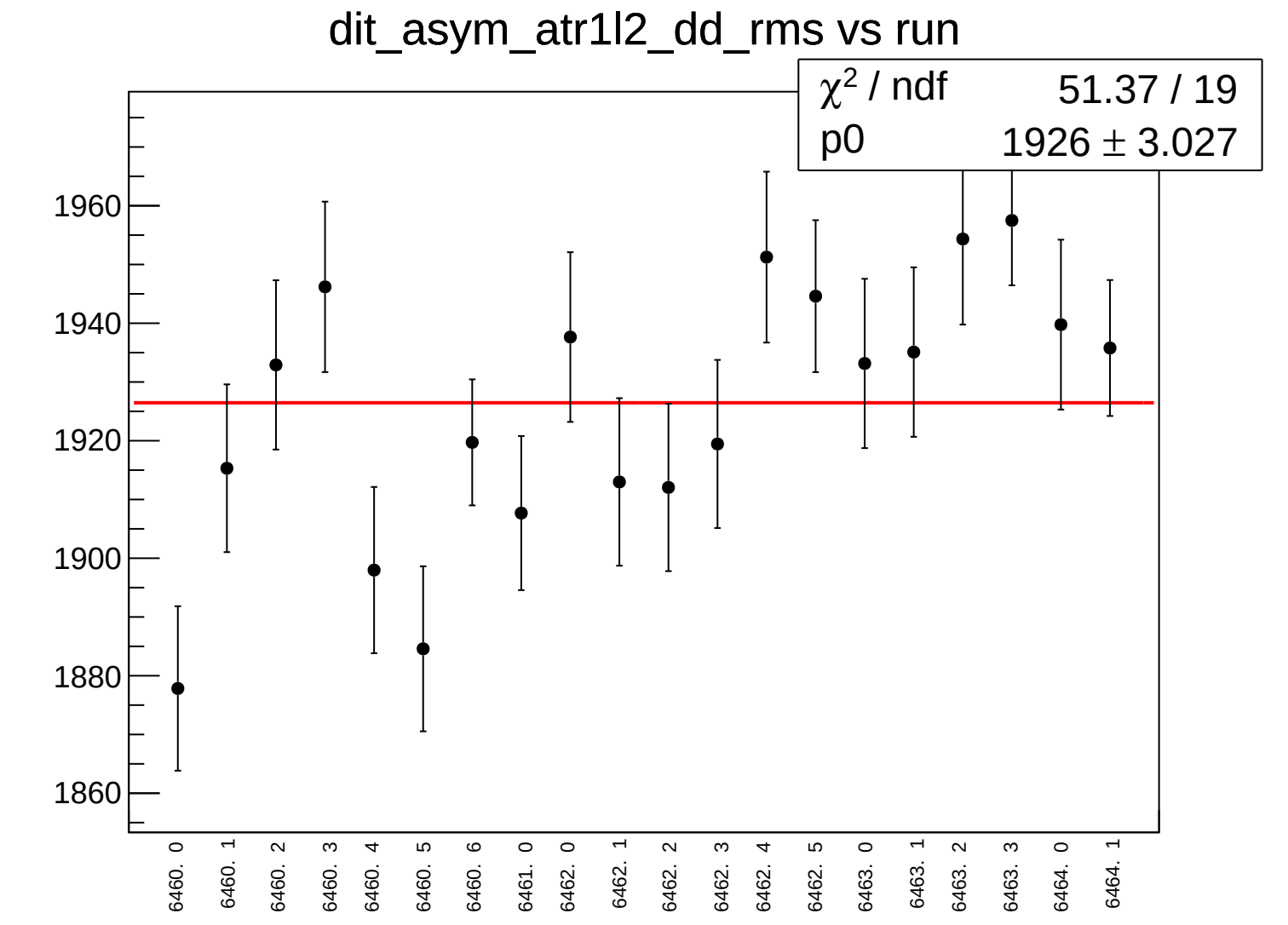

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 10.06 / 19
p0 −7255 ± 8247
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1

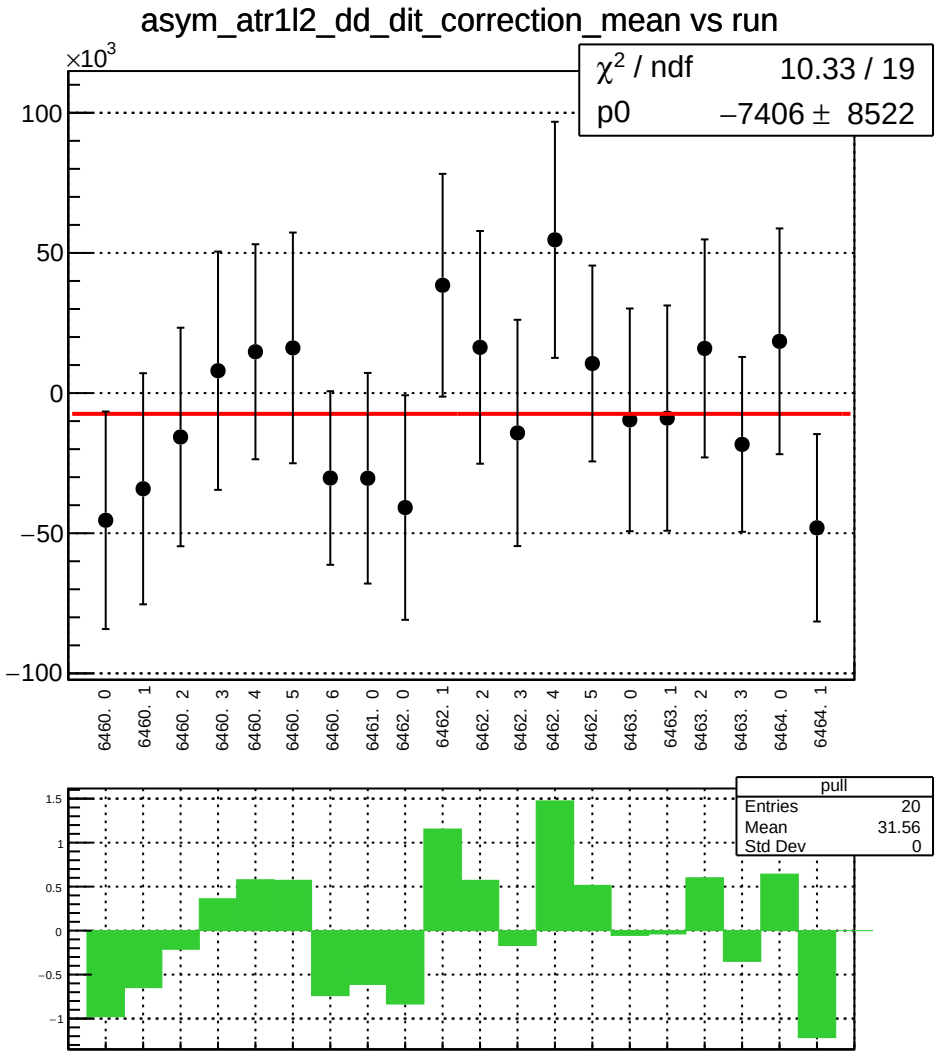

pull1D
Entries 20
Mean 0.02807
Std Dev 0.7086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

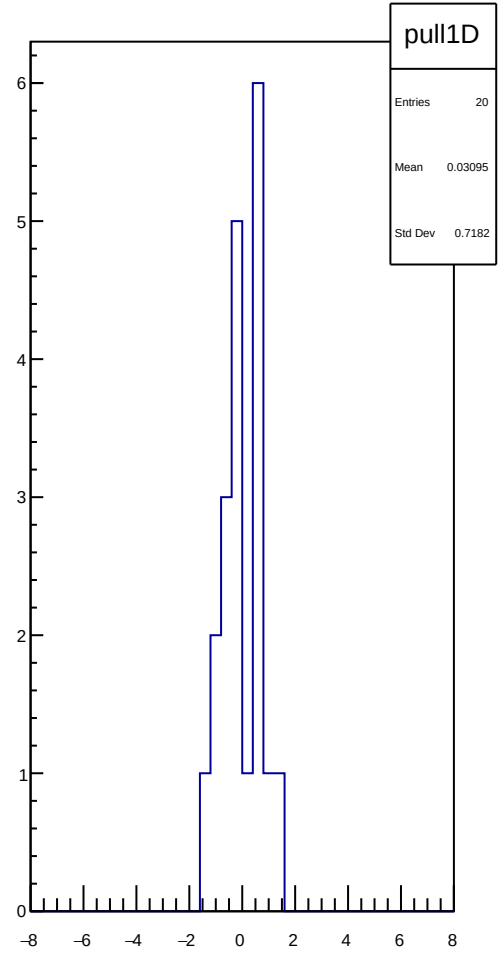

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 414.6 / 19
p0 3710 ± 5.832
4000
3900
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

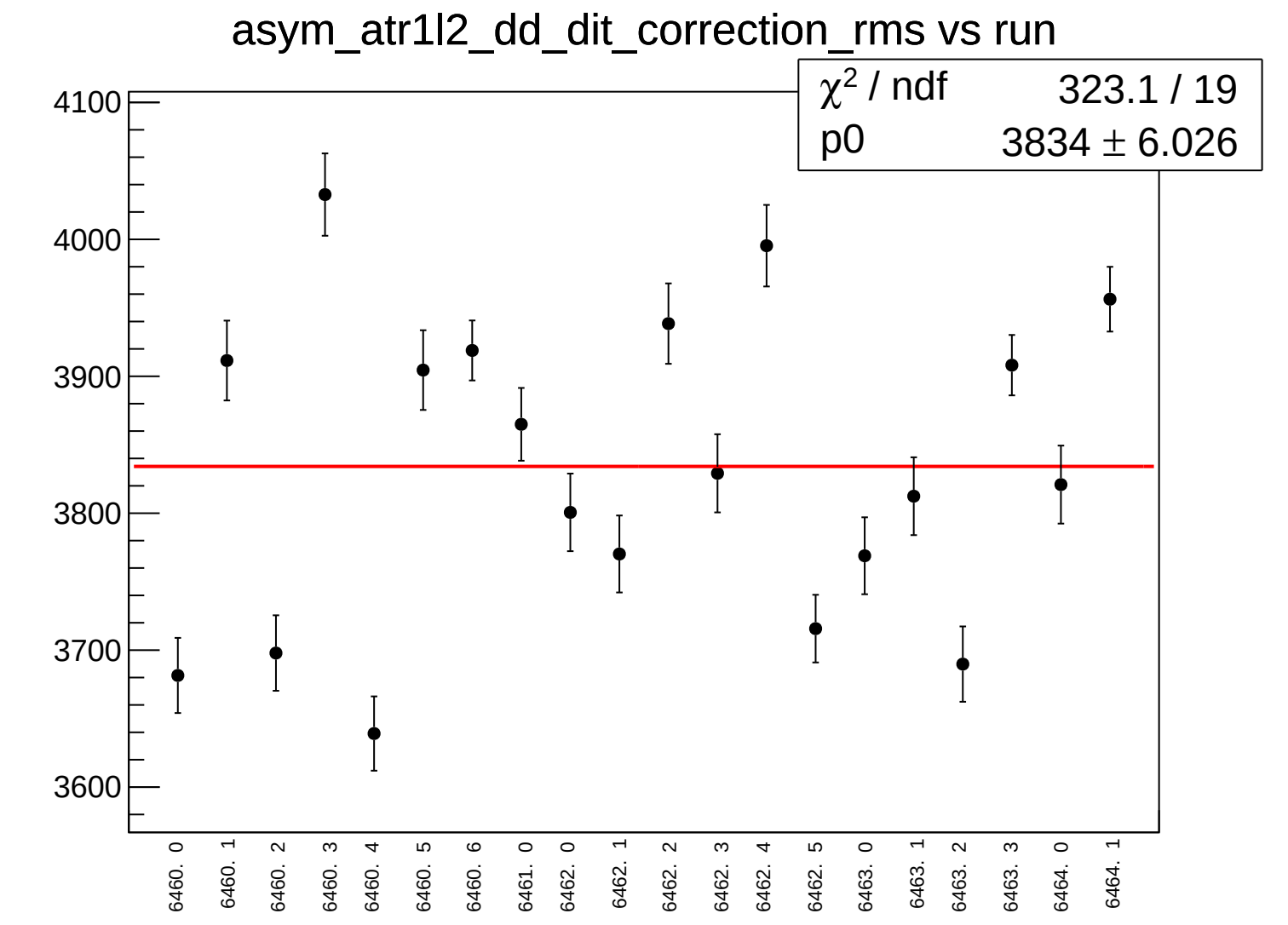

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 20.19 / 19
p0 −3566 ± 4280
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −144.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

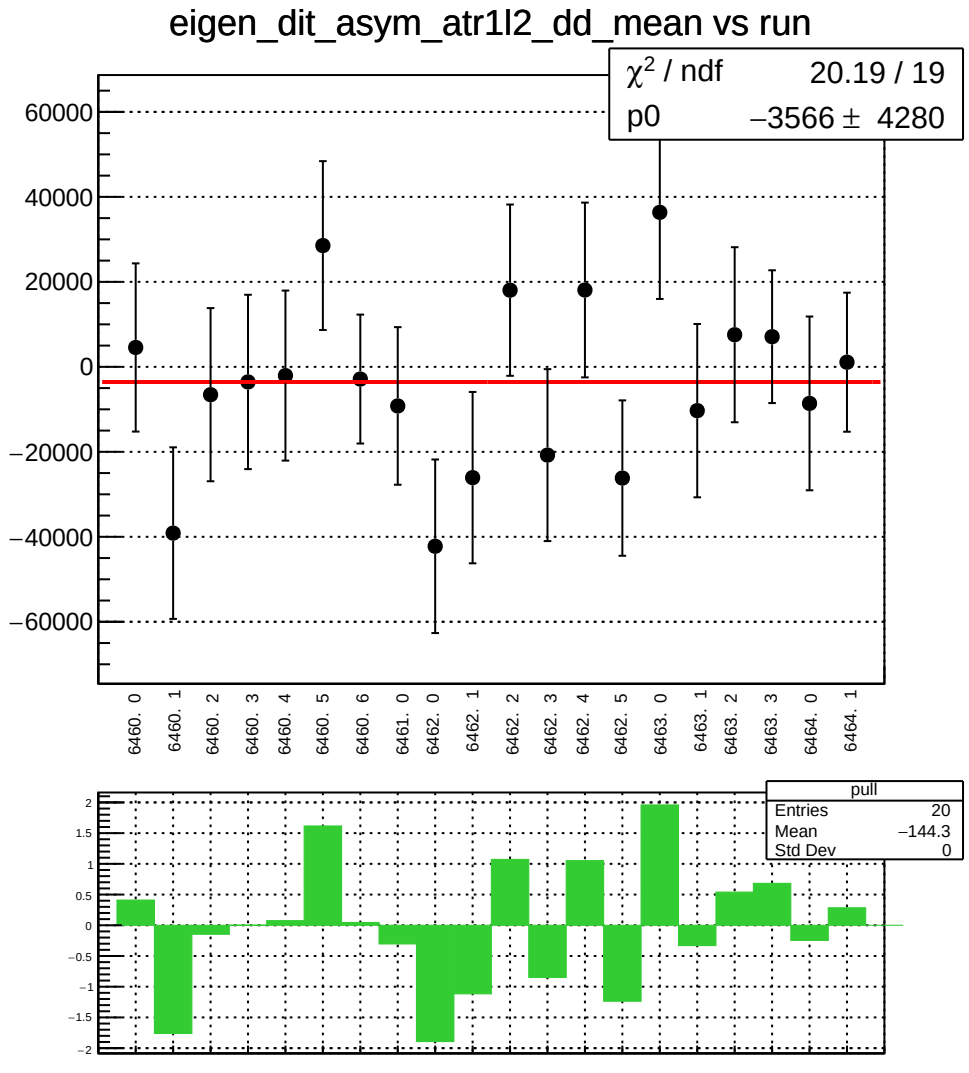

pull1D
Entries 20
Mean −0.007219
Std Dev 1.005
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

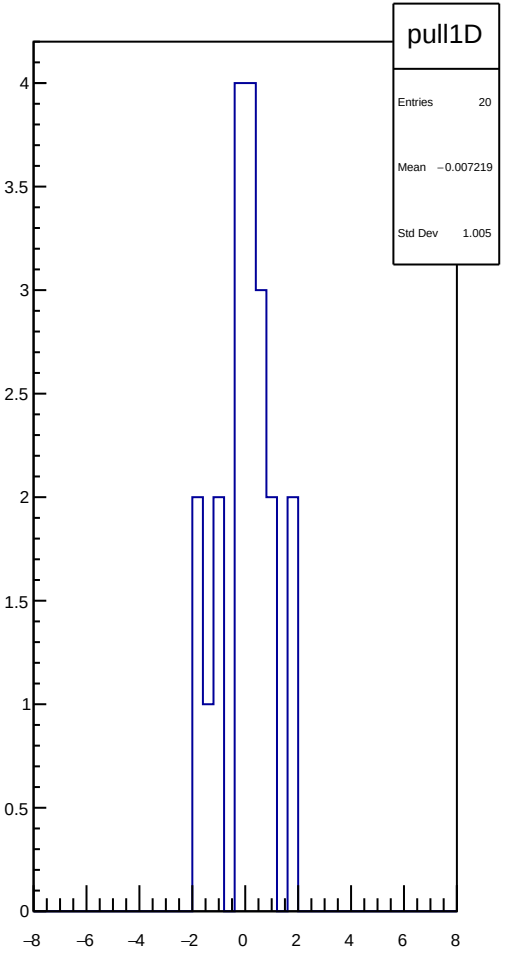

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 51.37 / 19
p0 1926 ± 3.027
1960
1940
1920
1900
1880
1860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

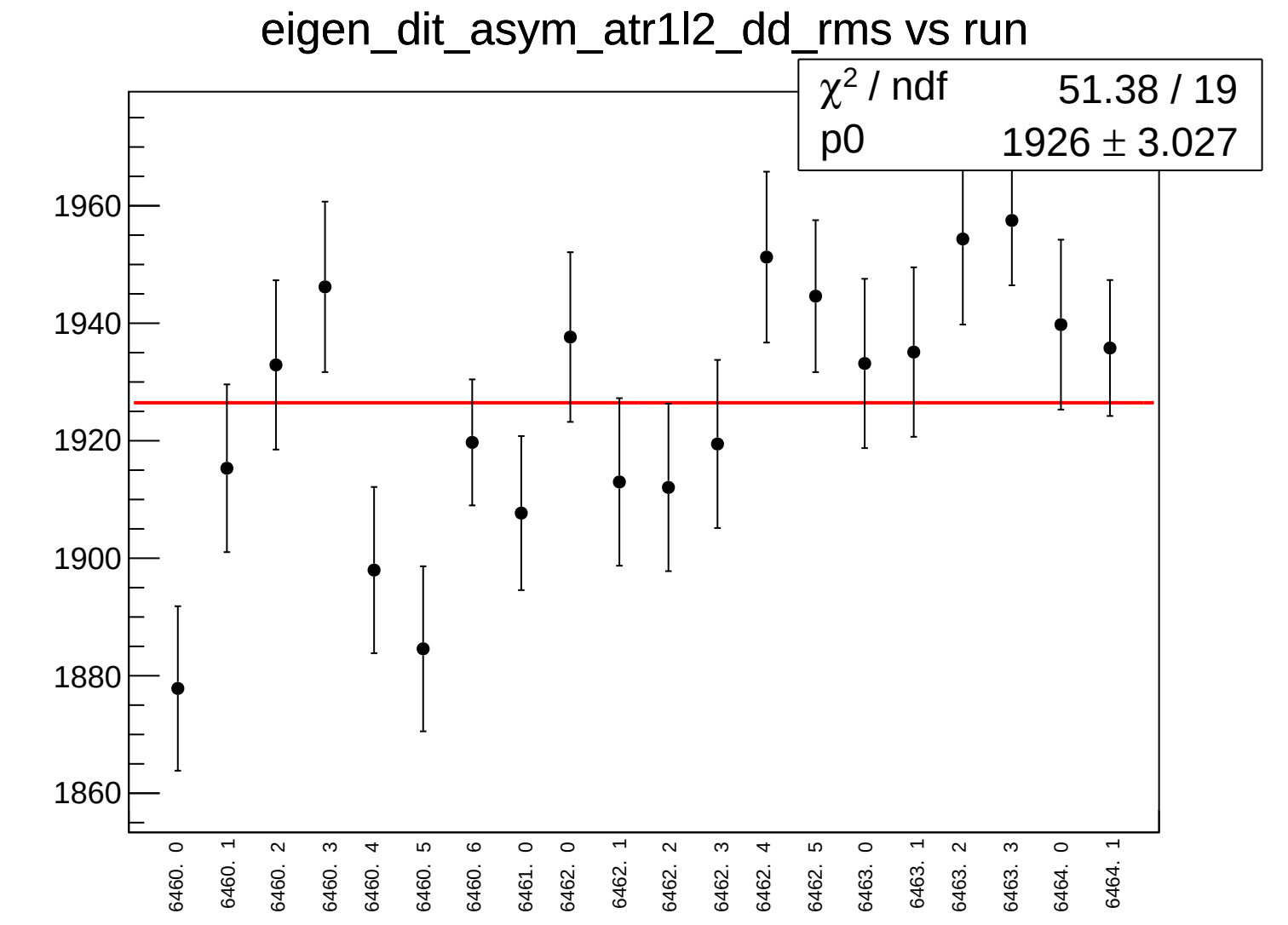

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 10.33 / 19
p0 −7406 ± 8522
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1

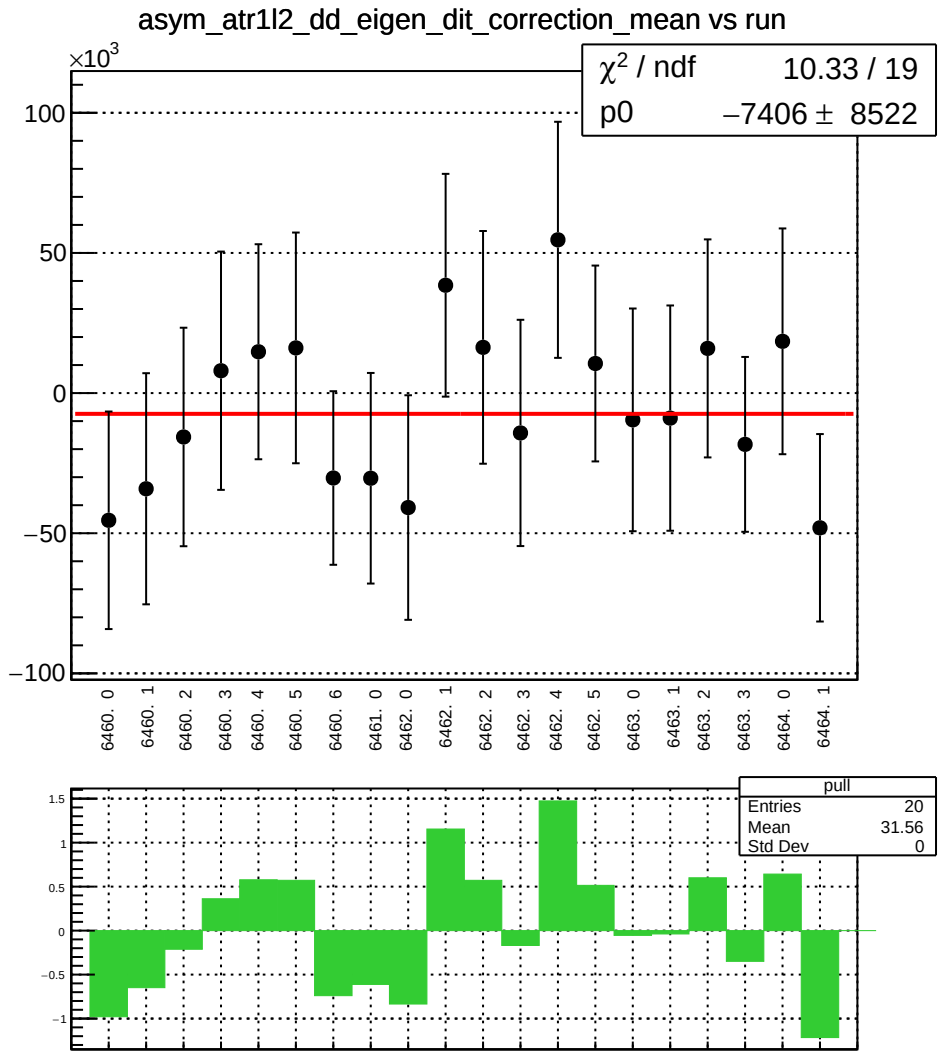

pull1D
Entries 20
Mean 0.03095
Std Dev 0.7182
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

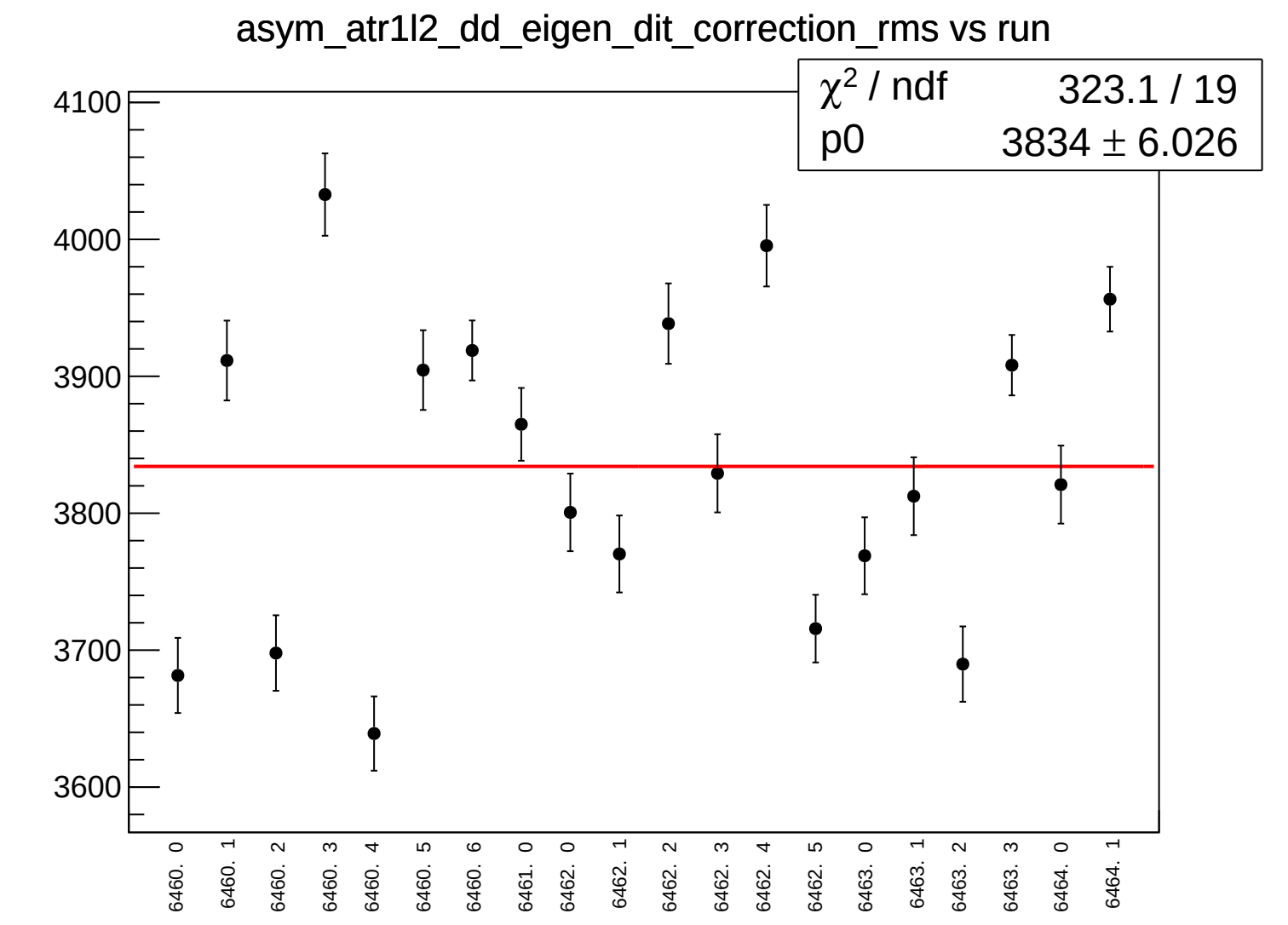

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 323.1 / 19
p0 3834 ± 6.026
4100
4000
3900
3800
3700
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

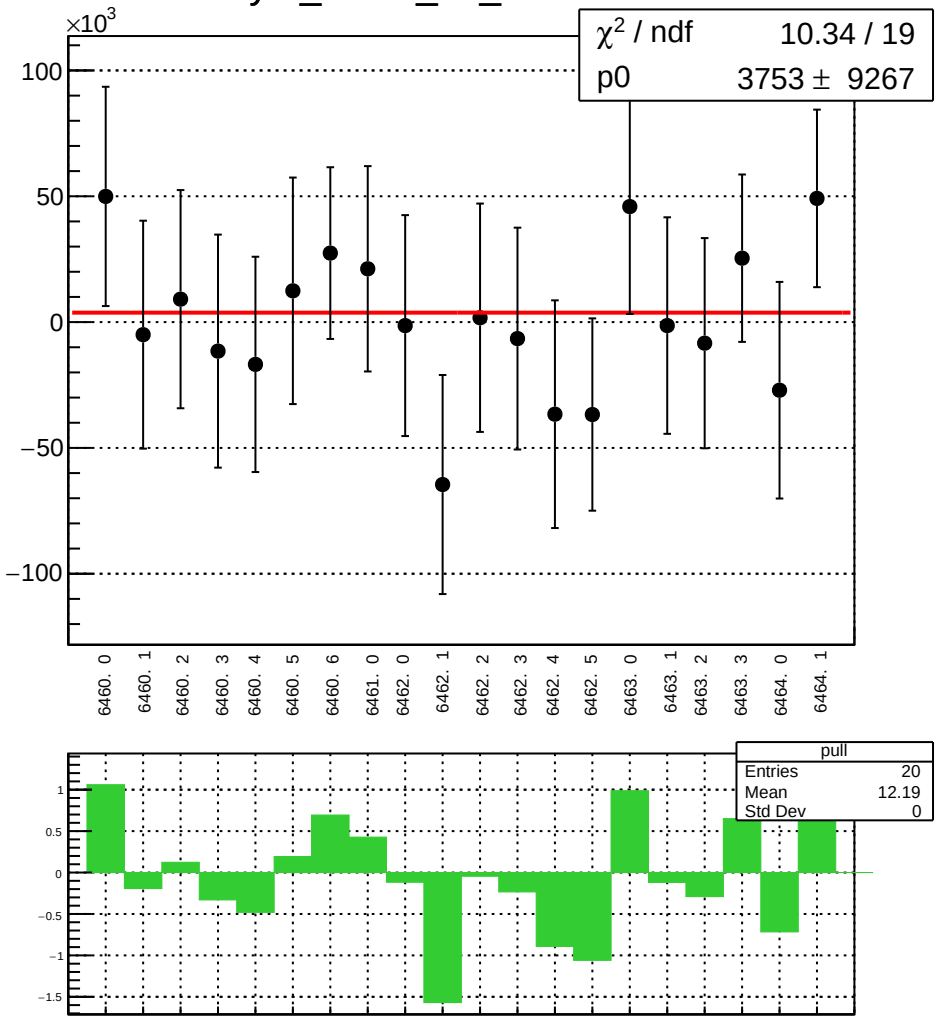

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 20.19 / 19
p0 −3566 ± 4280
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −144.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

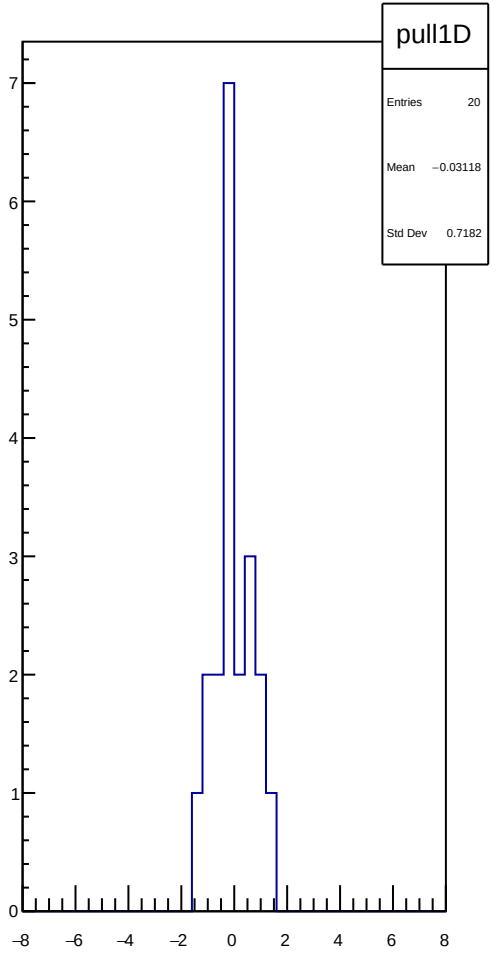

pull1D
Entries 20
Mean −0.007219
Std Dev 1.005
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

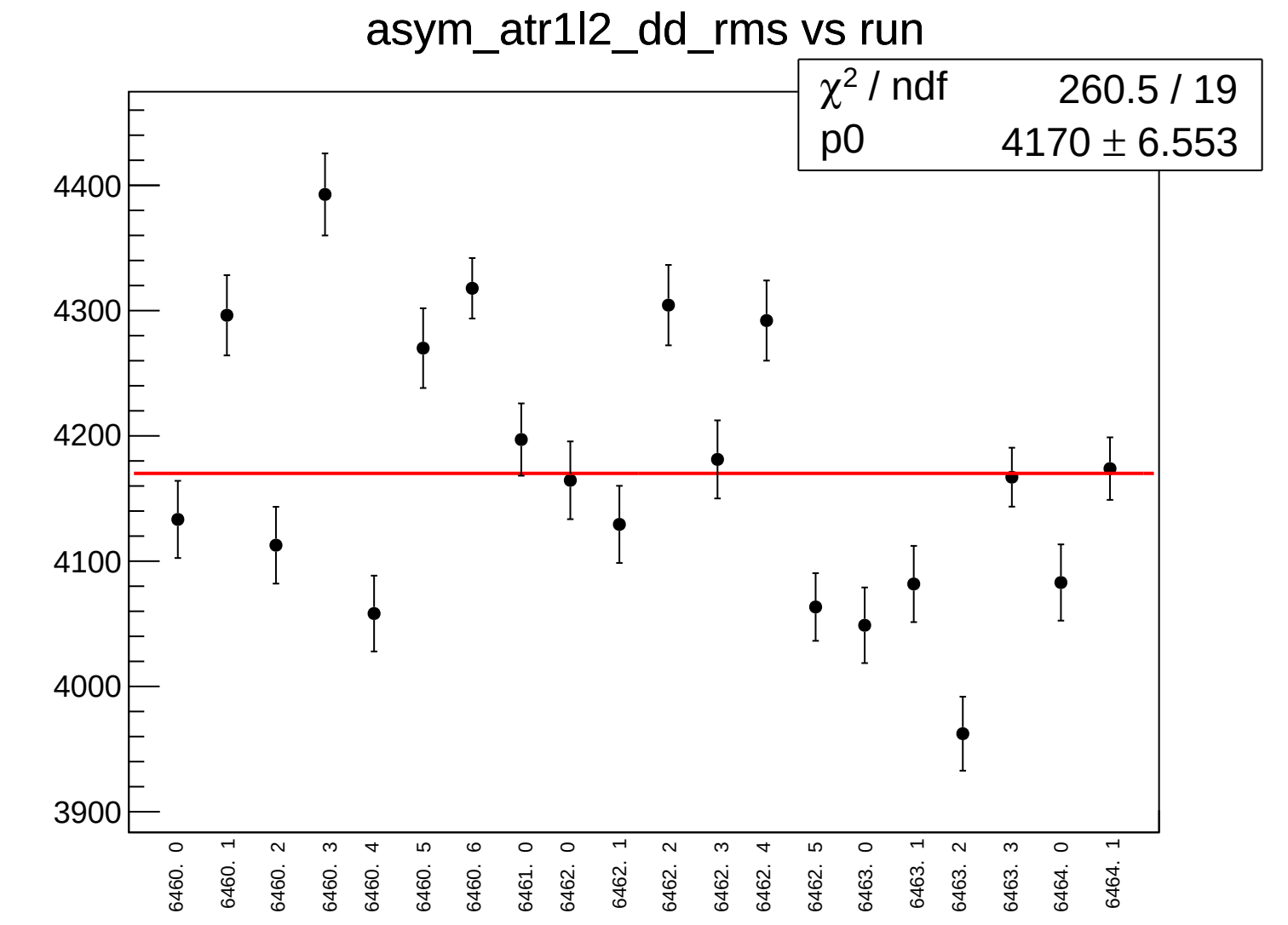

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 51.38 / 19
p0 1926 ± 3.027
1960
1940
1920
1900
1880
1860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

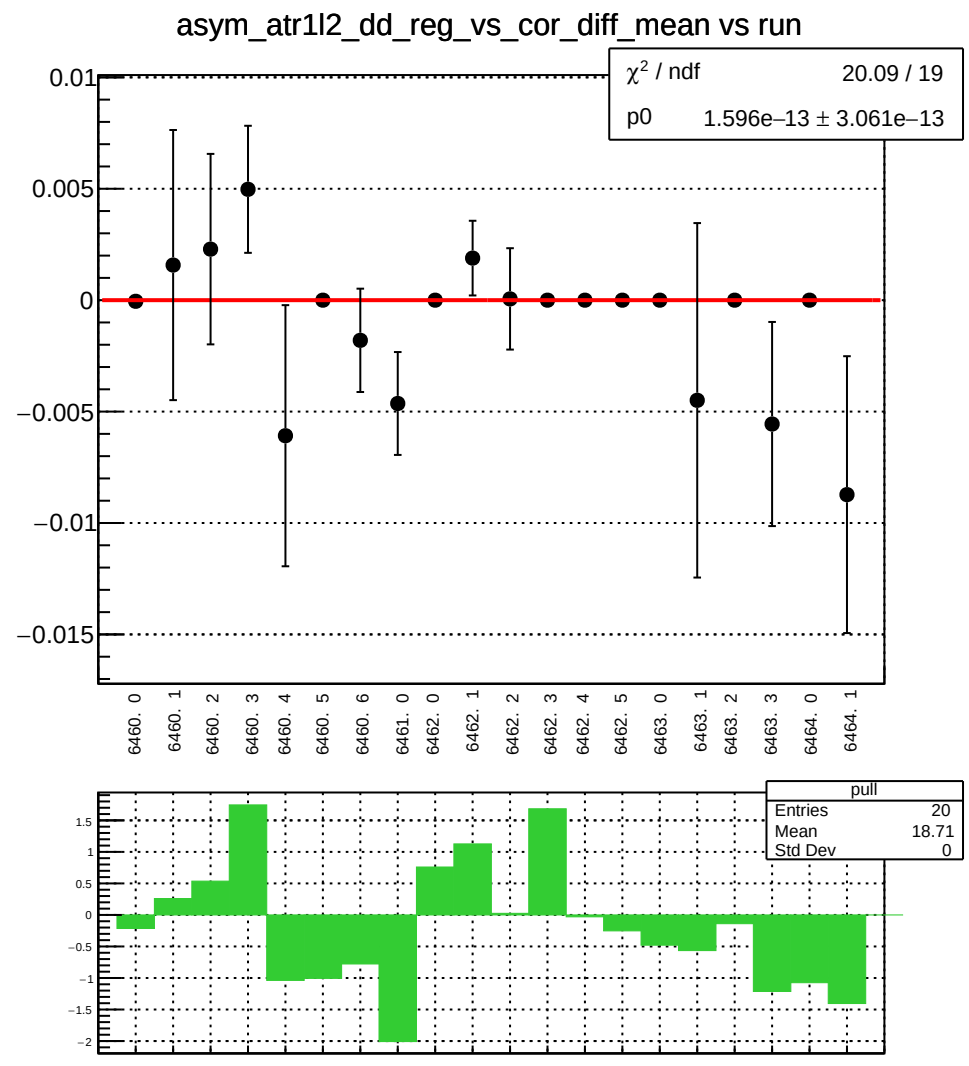

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 10.33 / 19
p0 −7406 ± 8522
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03095
Std Dev 0.7182
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

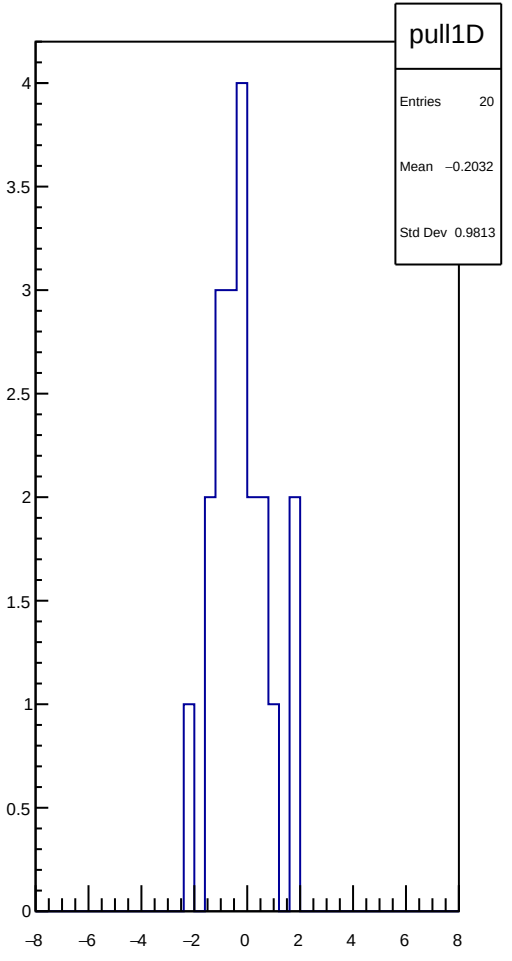

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 323.1 / 19
p0 3834 ± 6.026
4100
4000
3900
3800
3700
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

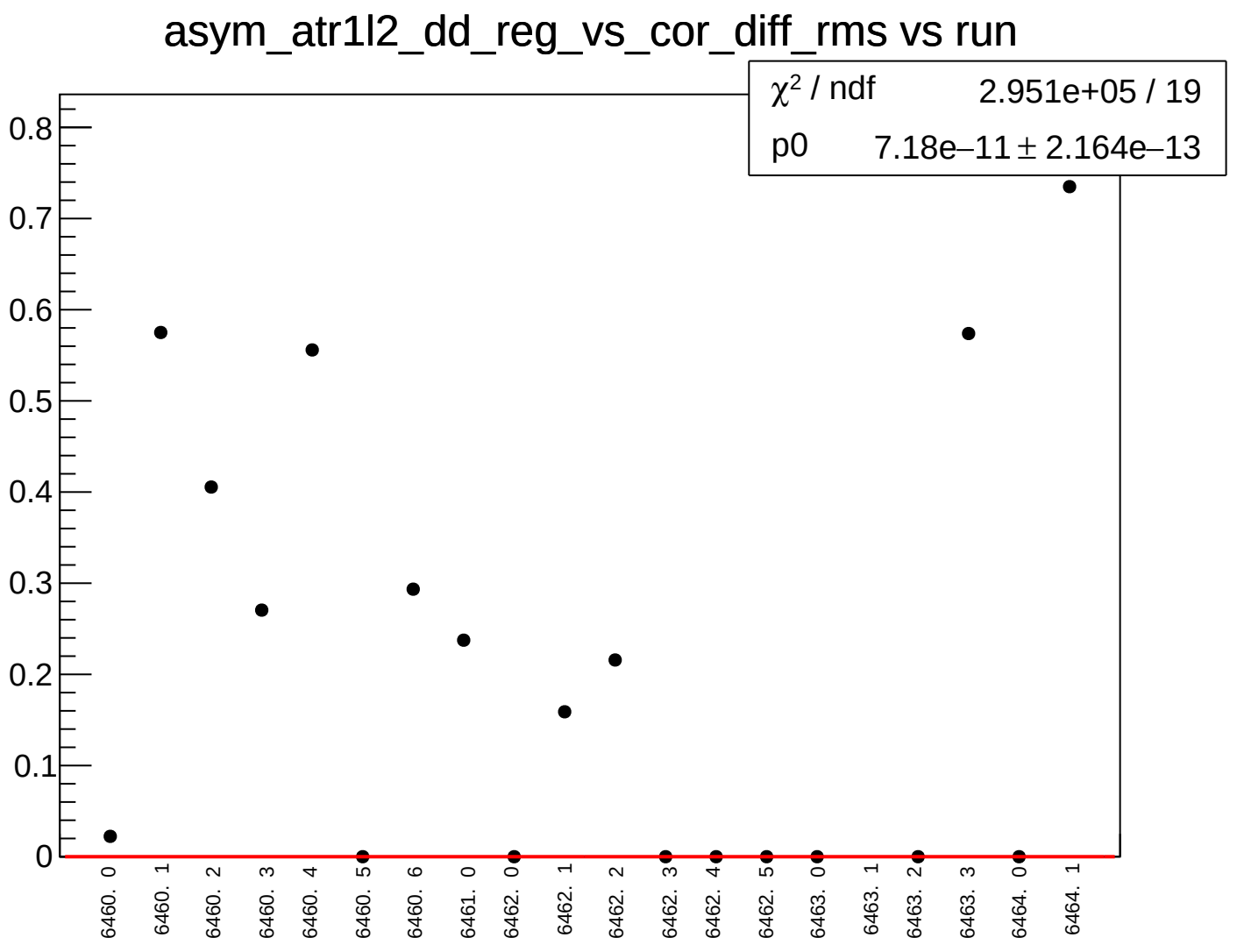

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 10.34 / 19
p0 3753 ± 9267
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.19
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

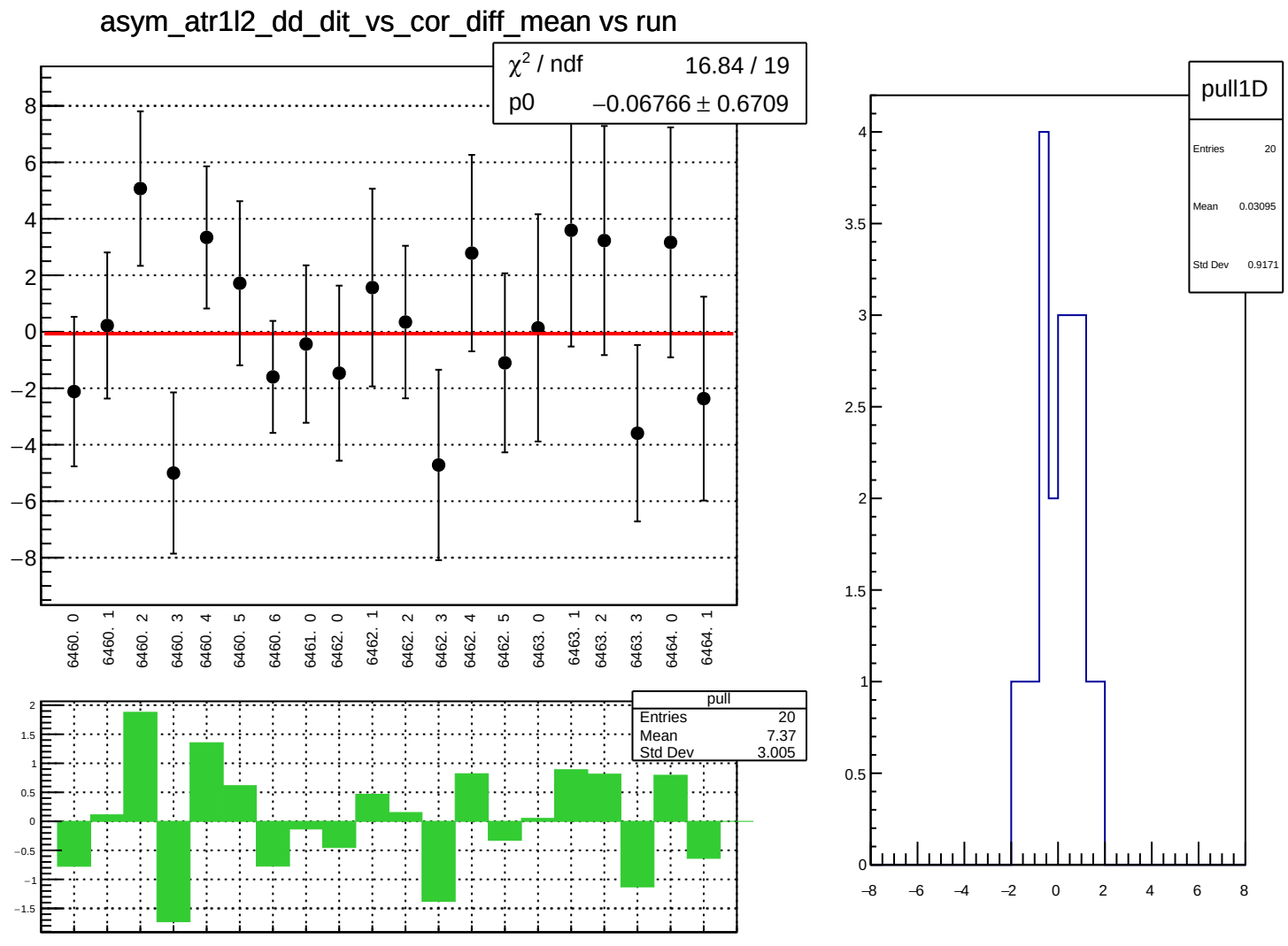

pull1D
Entries 20
Mean −0.03118
Std Dev 0.7182
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

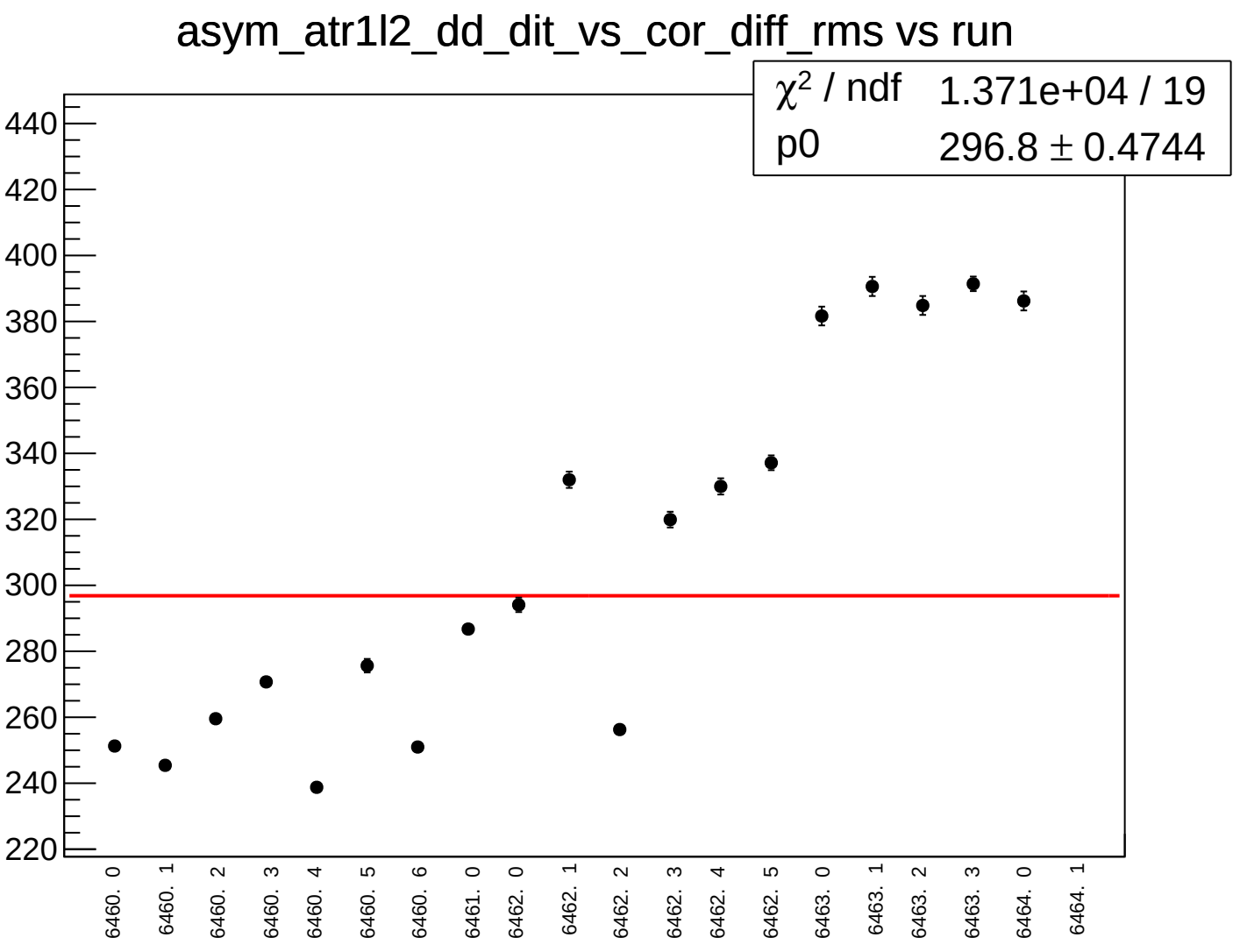

asym_atr1l2_dd_rms vs run
χ² / ndf 260.5 / 19
p0 4170 ± 6.553
4400
4300
4200
4100
4000
3900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

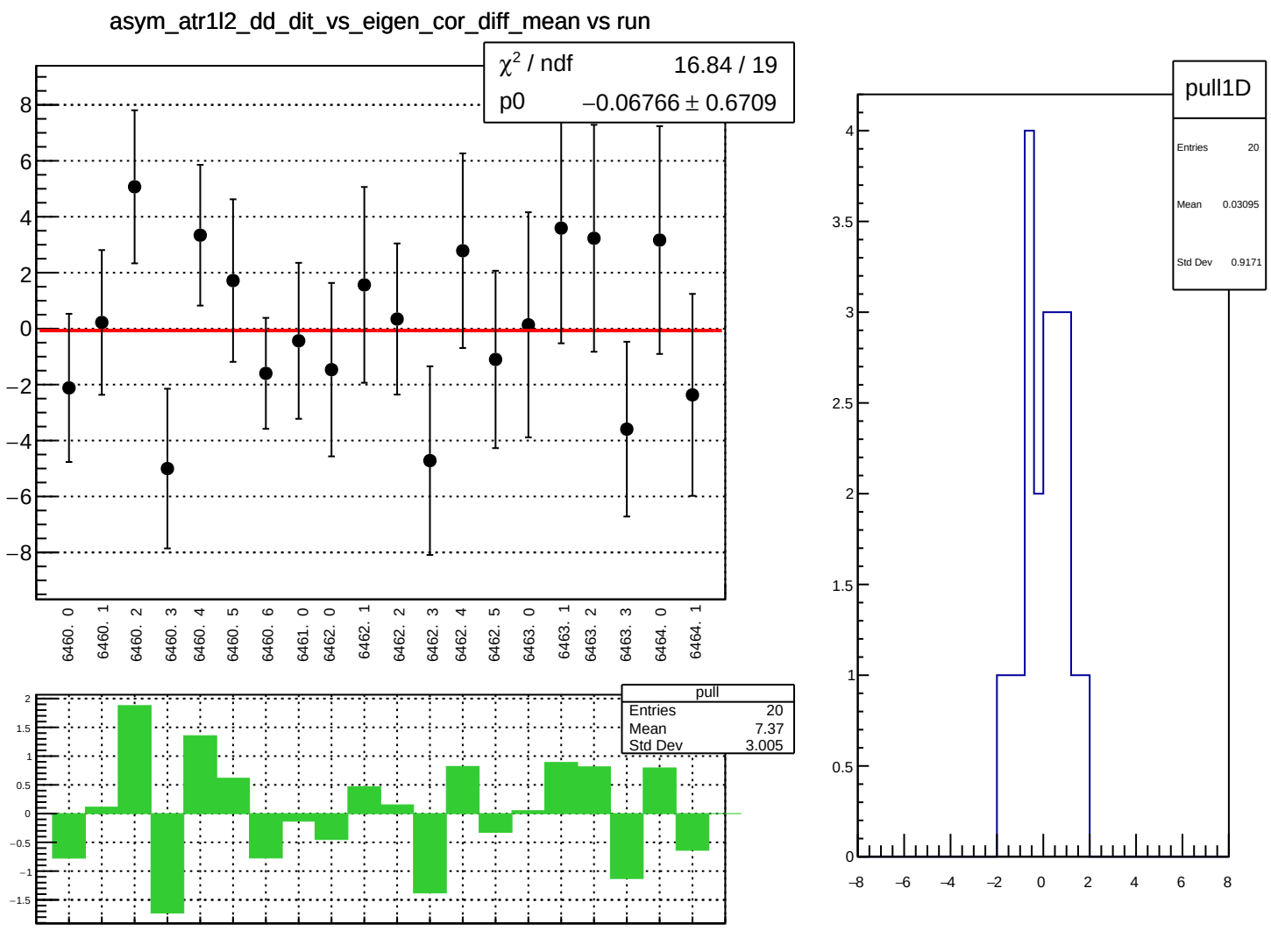

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.09 / 19
p0 1.596e−13 ± 3.061e−13
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

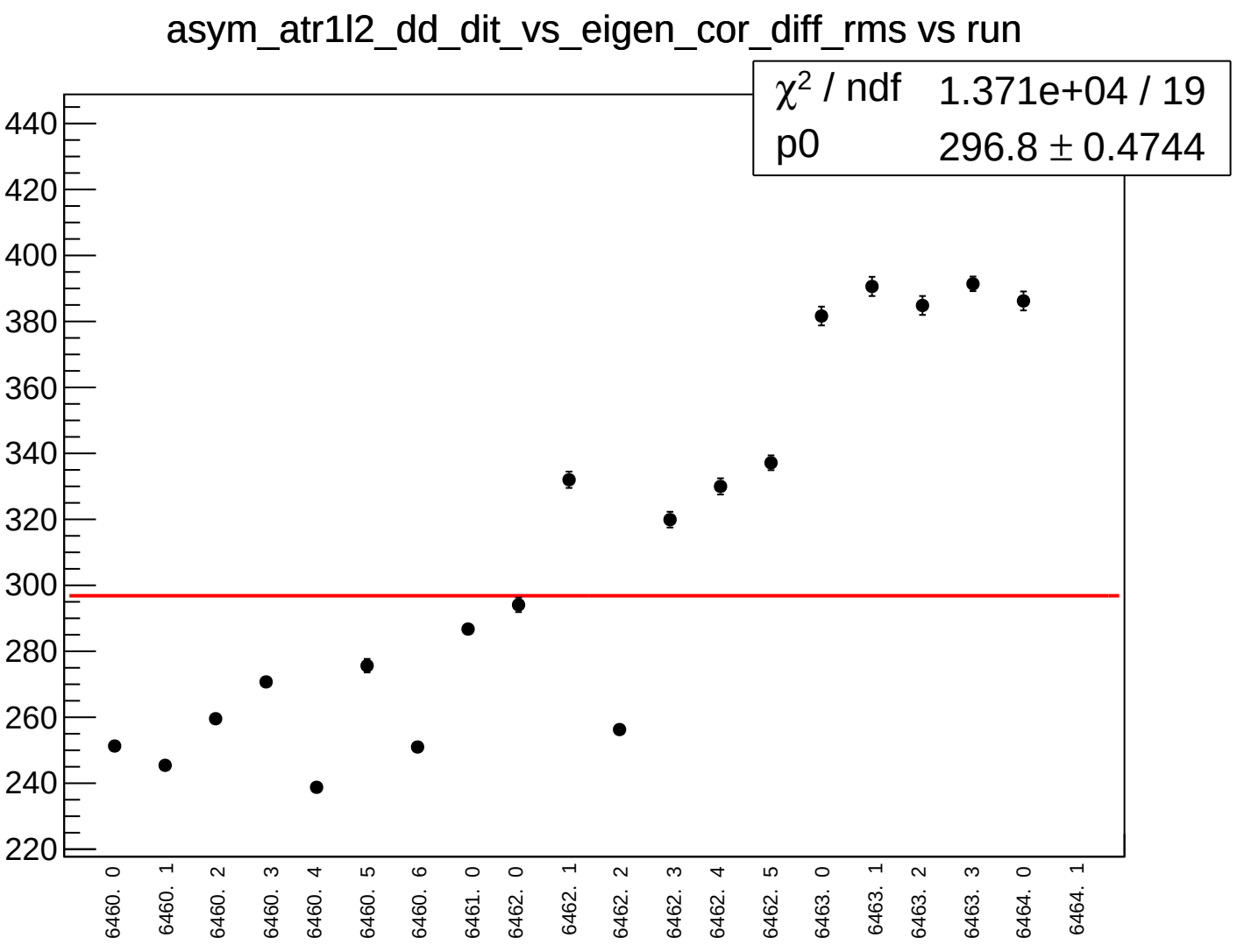

pull1D
Entries 20
Mean −0.2032
Std Dev 0.9813
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

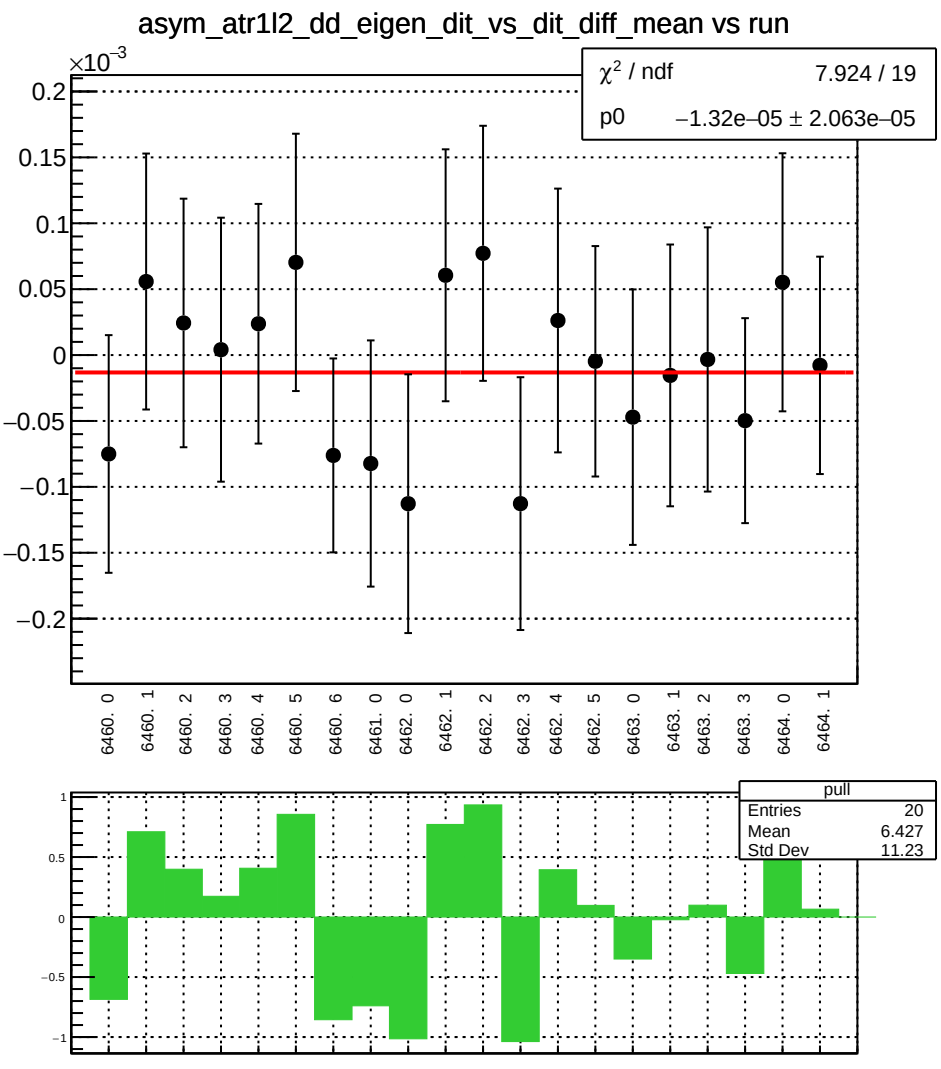

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.951e+05 / 19
p0 7.18e−11 ± 2.164e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

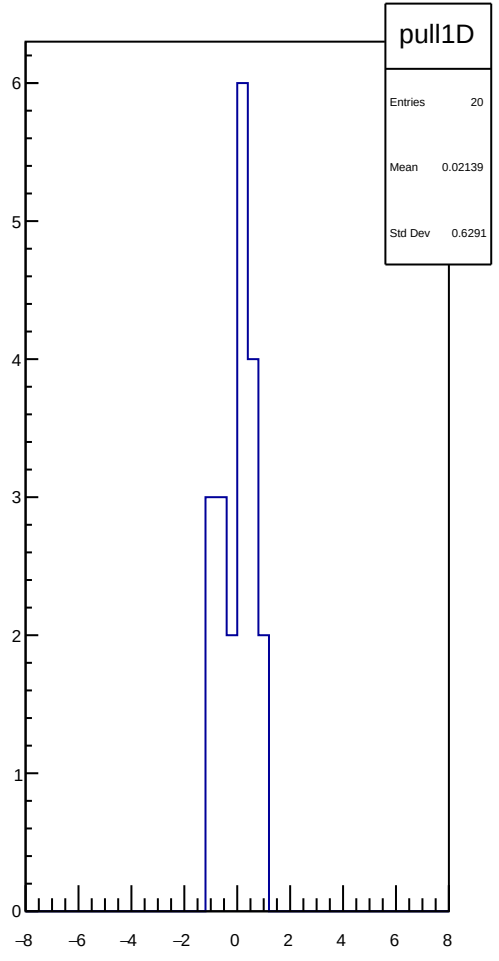

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 16.84 / 19
p0 −0.06766 ± 0.6709
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.37
Std Dev 3.005
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03095
Std Dev 0.9171
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

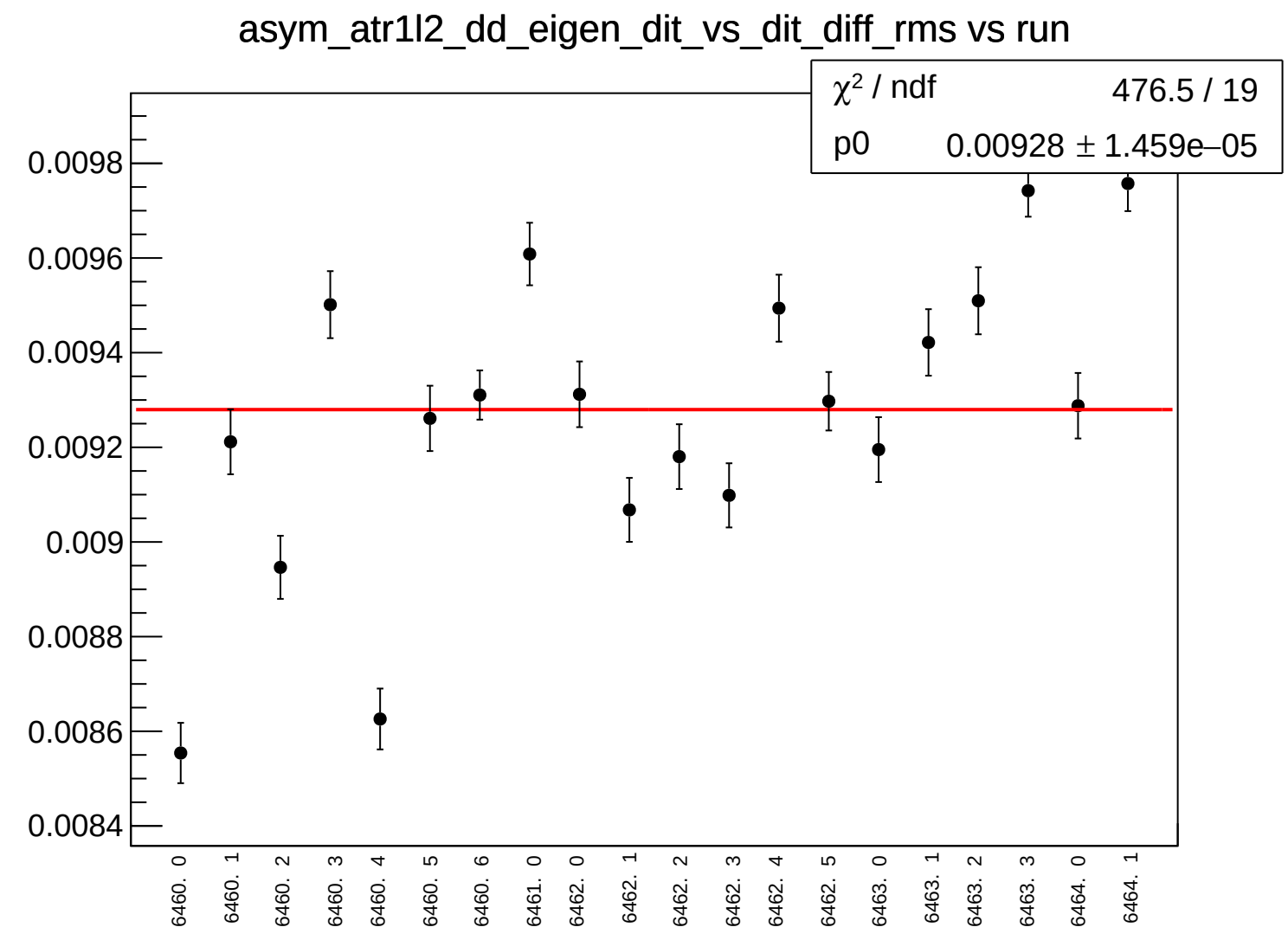

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.371e+04 / 19
p0 296.8 ± 0.4744
440
420
400
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

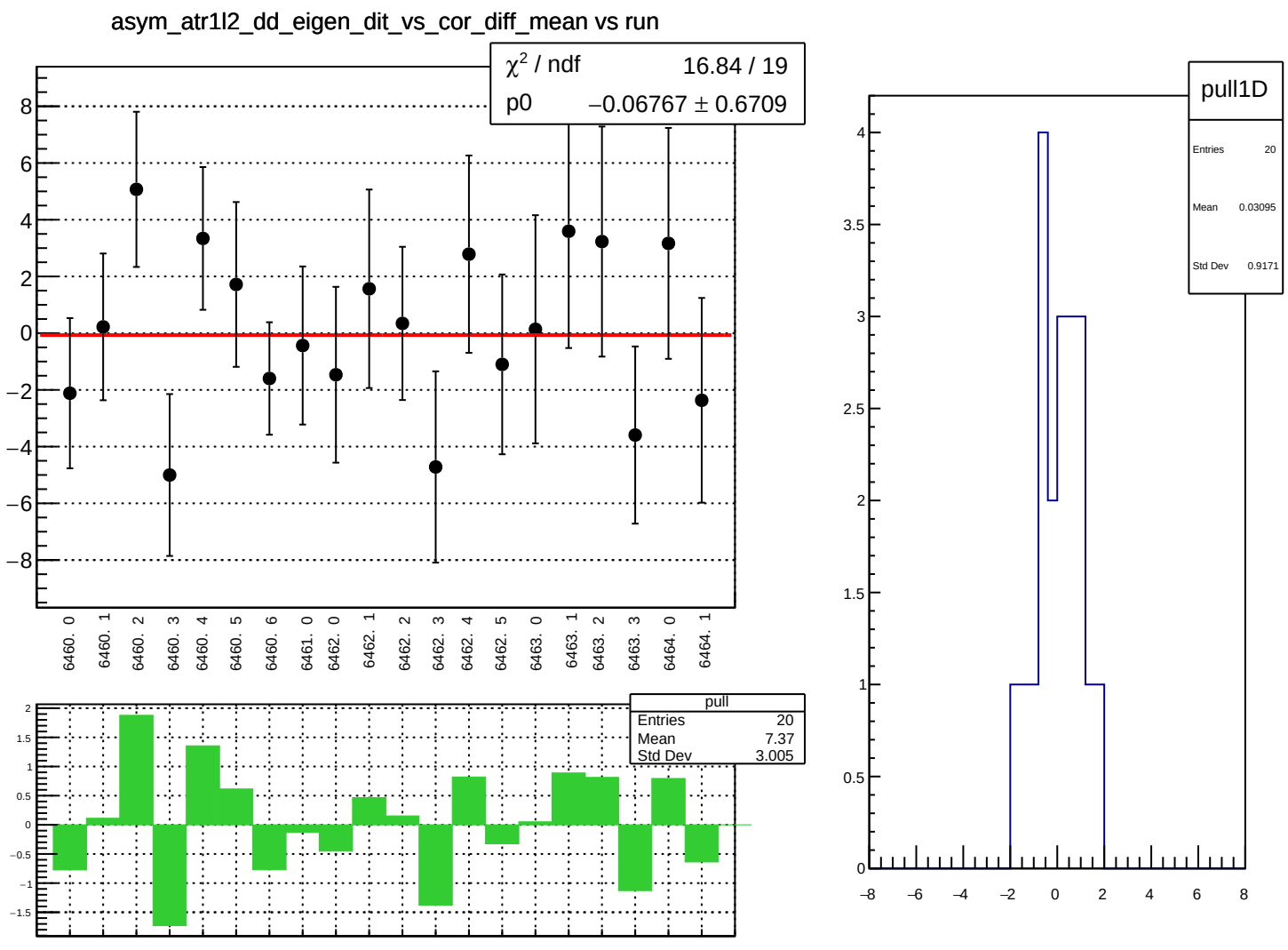

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.84 / 19
p0 −0.06766 ± 0.6709
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.37
Std Dev 3.005
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03095
Std Dev 0.9171
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

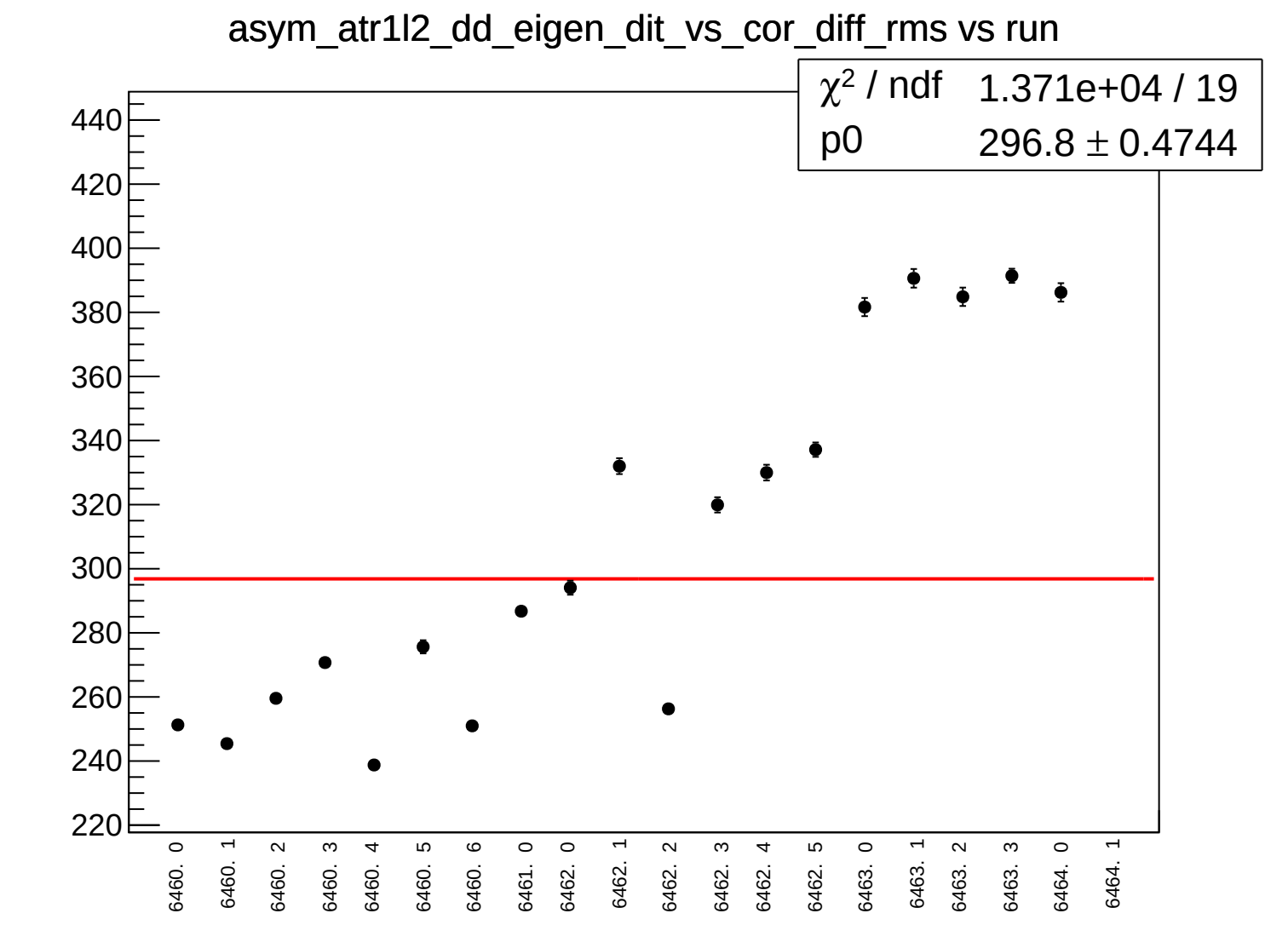

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.371e+04 / 19
p0 296.8 ± 0.4744
440
420
400
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

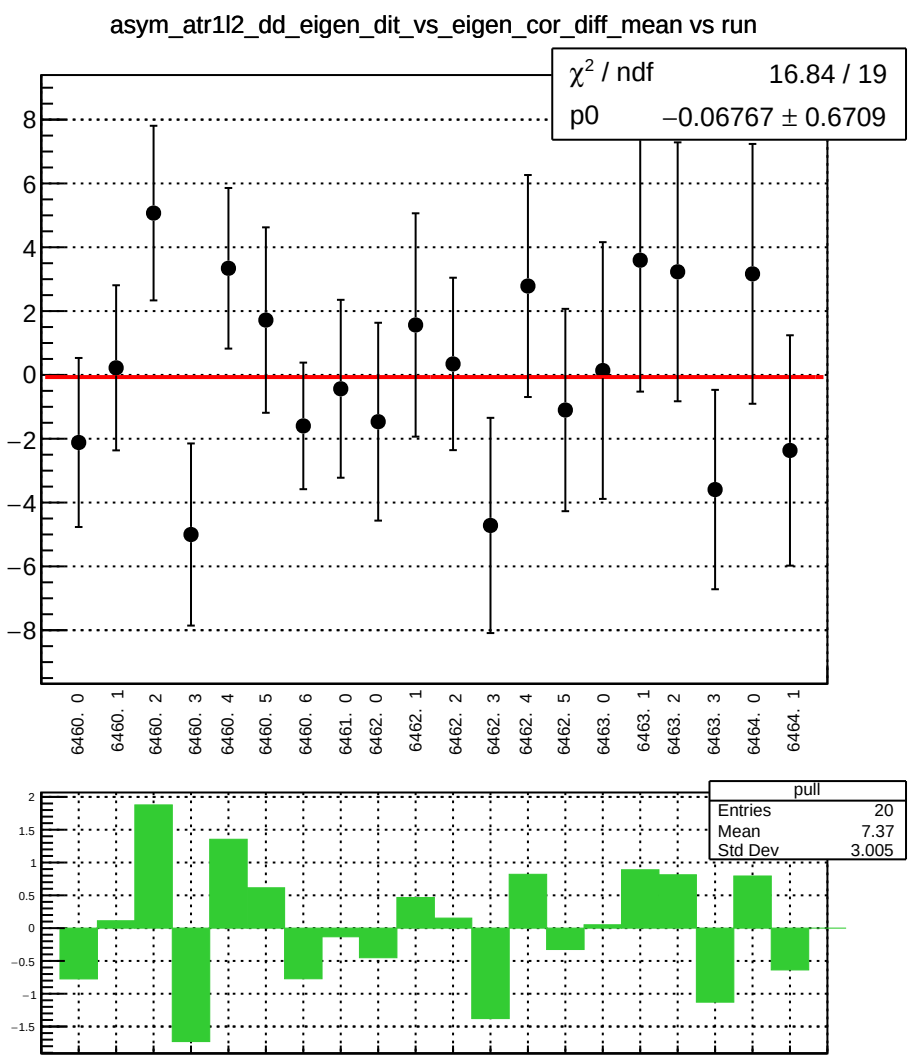

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 7.924 / 19
p0 −1.32e−05 ± 2.063e−05
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.427
Std Dev 11.23
1
0.5
0
−0.5
−1

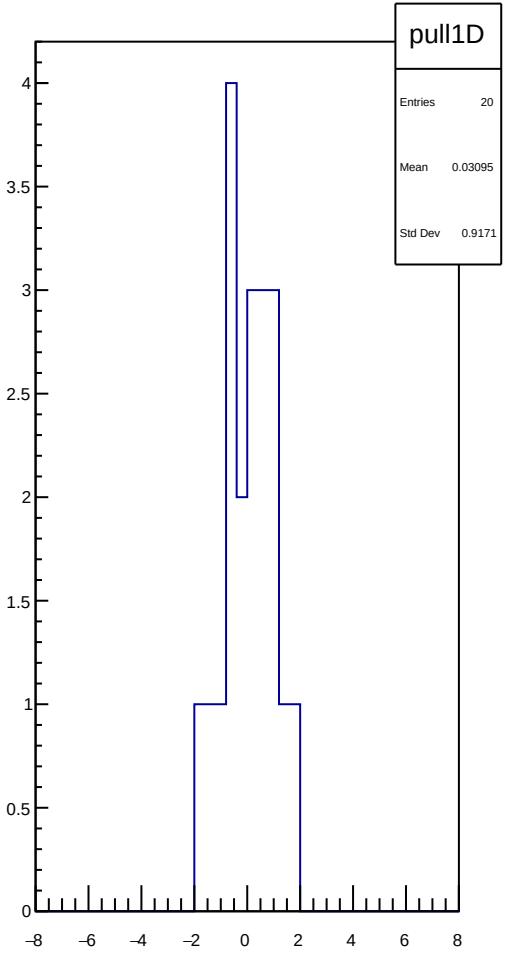

pull1D
Entries 20
Mean 0.02139
Std Dev 0.6291
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

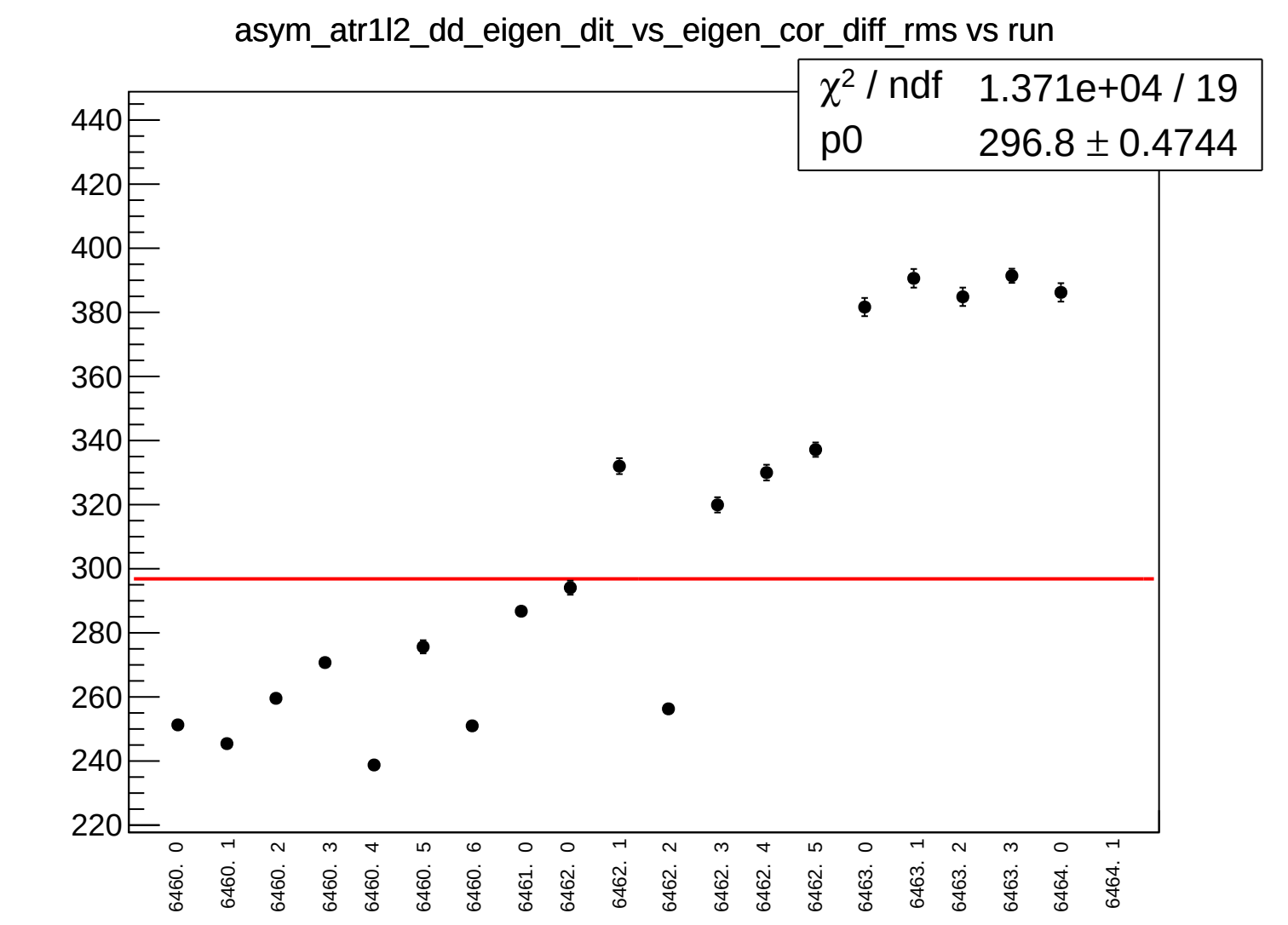

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 476.5 / 19
p0 0.00928 ± 1.459e−05
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

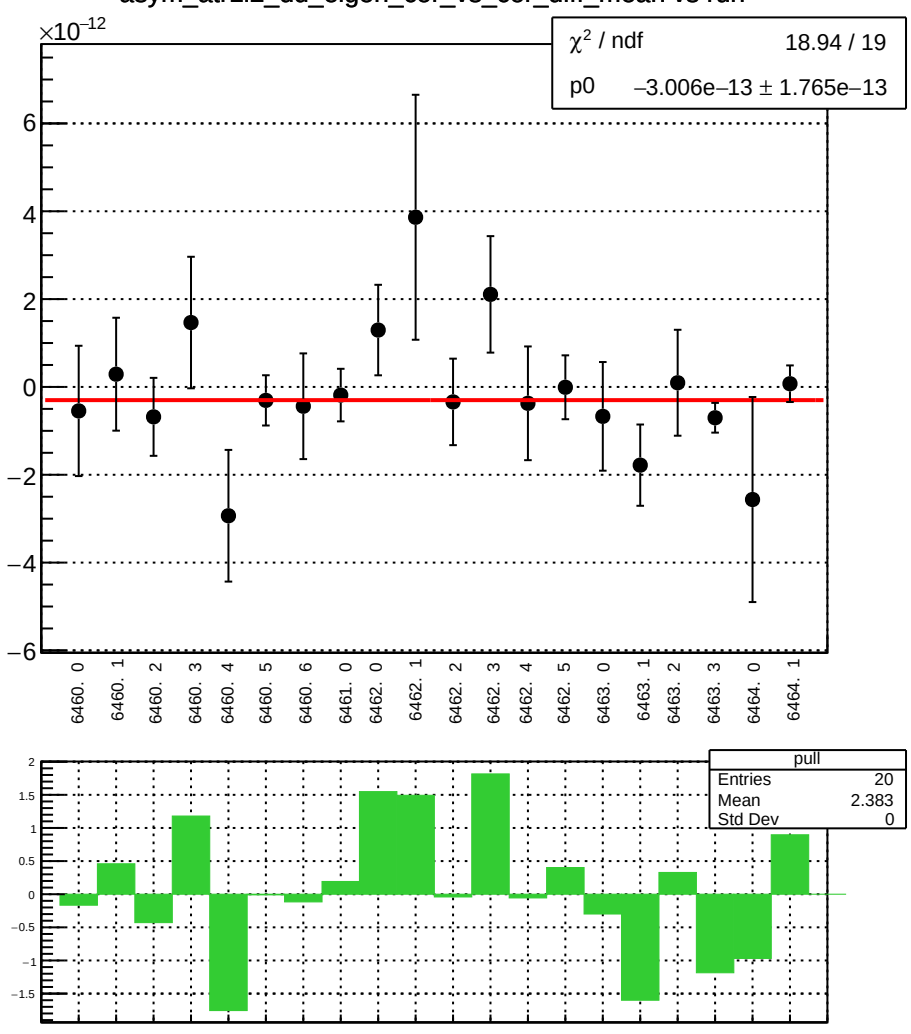

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.84 / 19
p0 −0.06767 ± 0.6709
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.37
Std Dev 3.005
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03095
Std Dev 0.9171
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

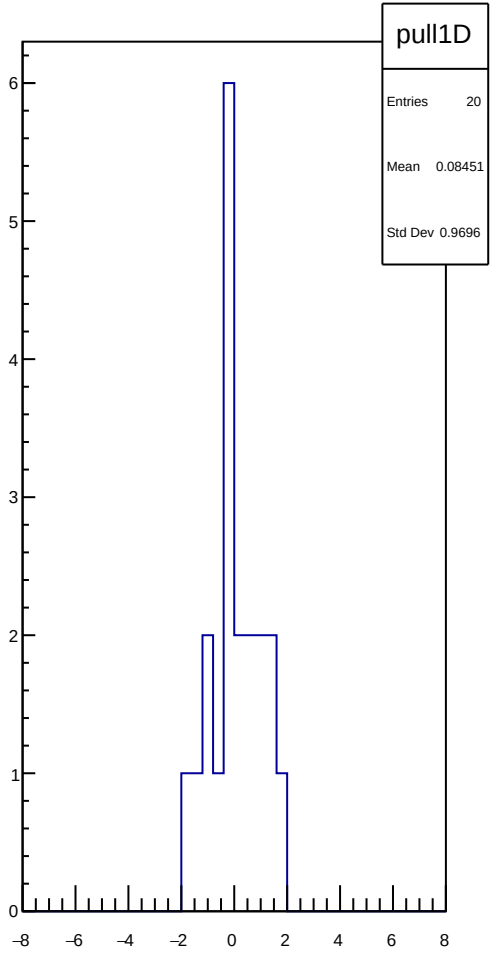

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.371e+04 / 19
p0 296.8 ± 0.4744
440
420
400
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

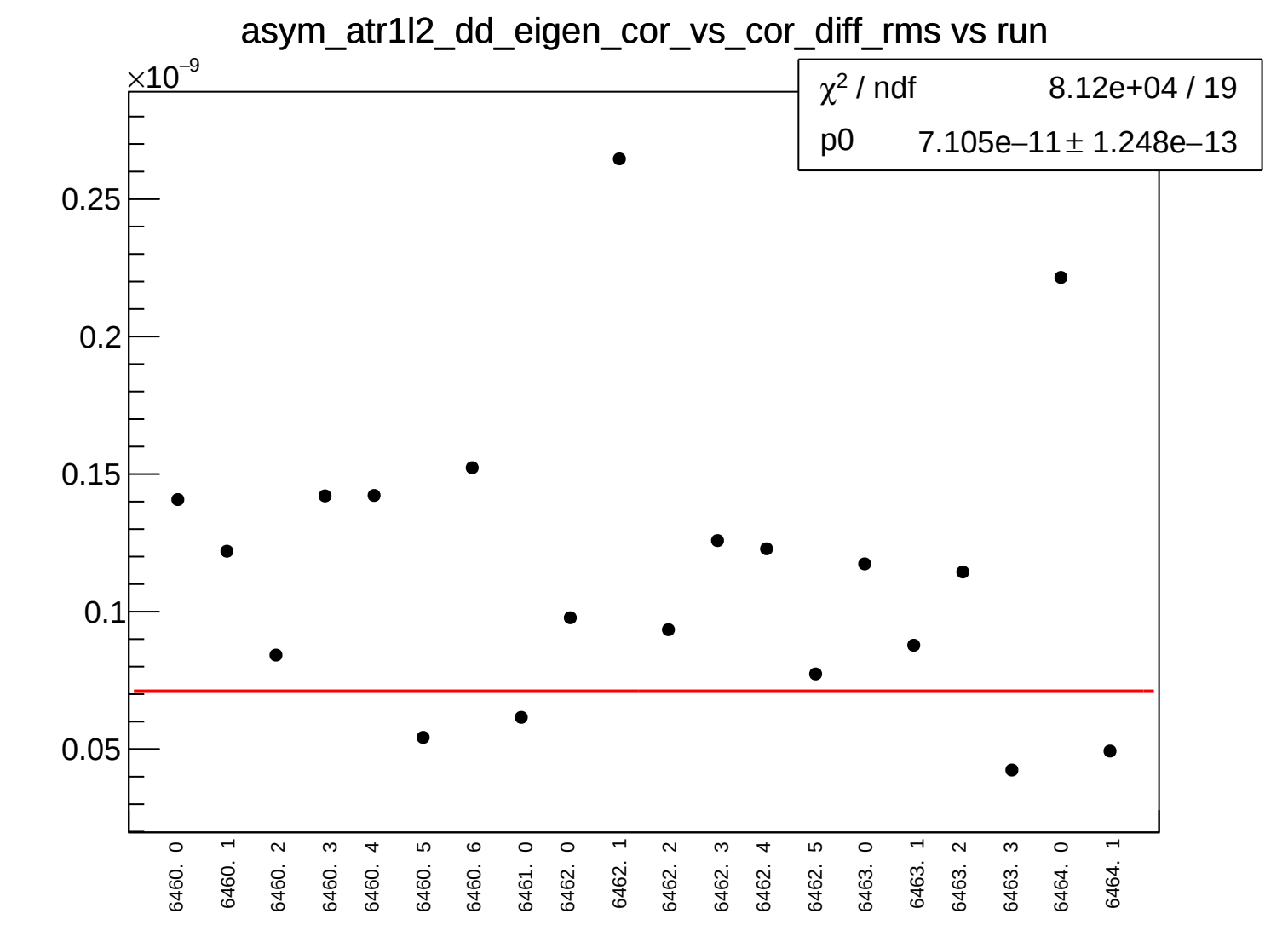

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.84 / 19
p0 −0.06767 ± 0.6709
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.37
Std Dev 3.005
2
1.5
1
0.5
0
−0.5
−1
−1.5

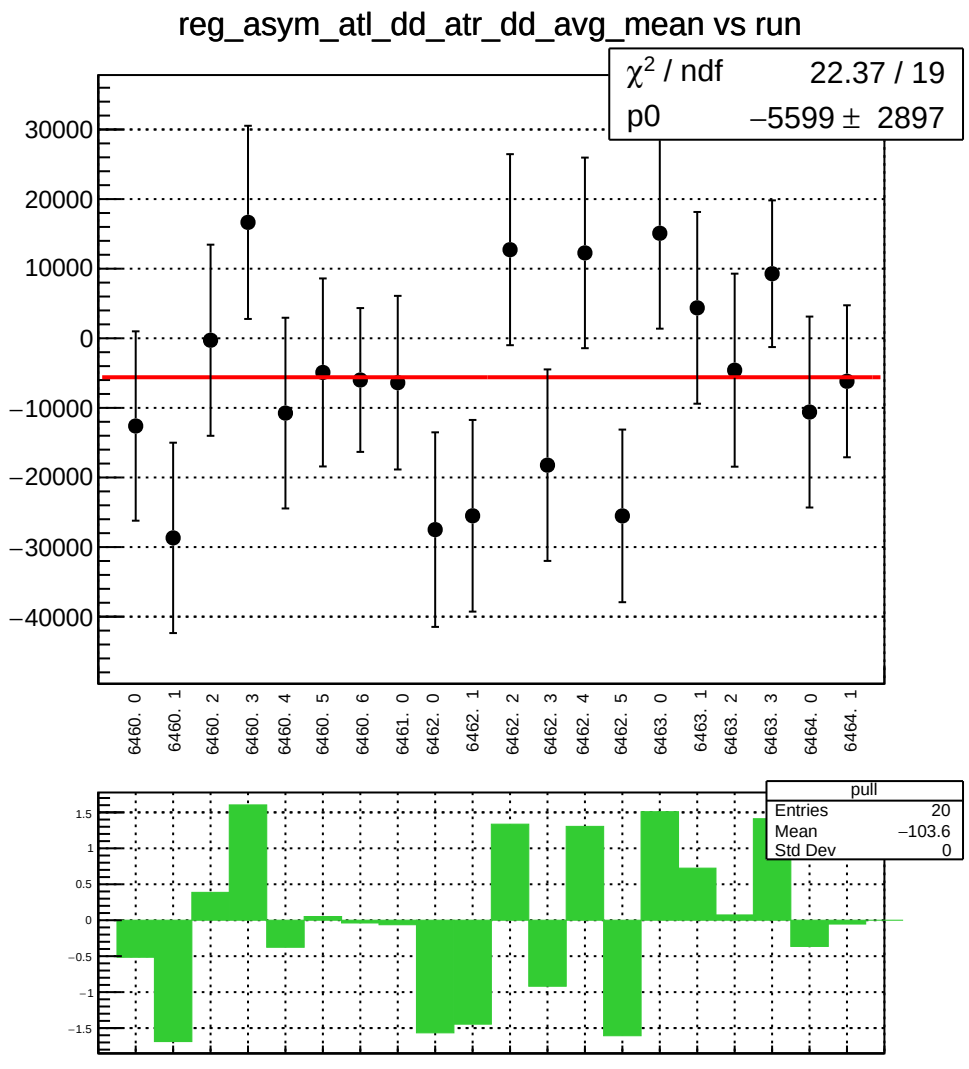

pull1D
Entries 20
Mean 0.03095
Std Dev 0.9171
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

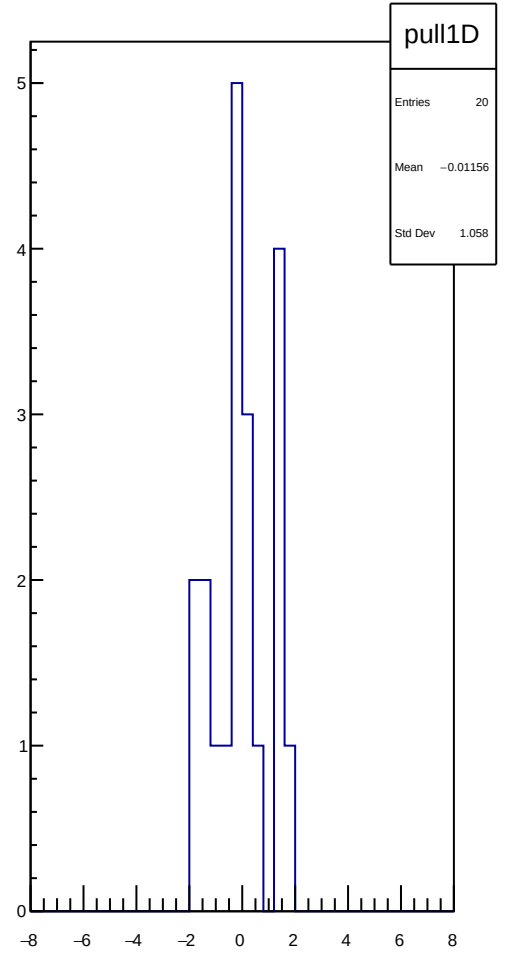

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.371e+04 / 19
p0 296.8 ± 0.4744
440
420
400
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

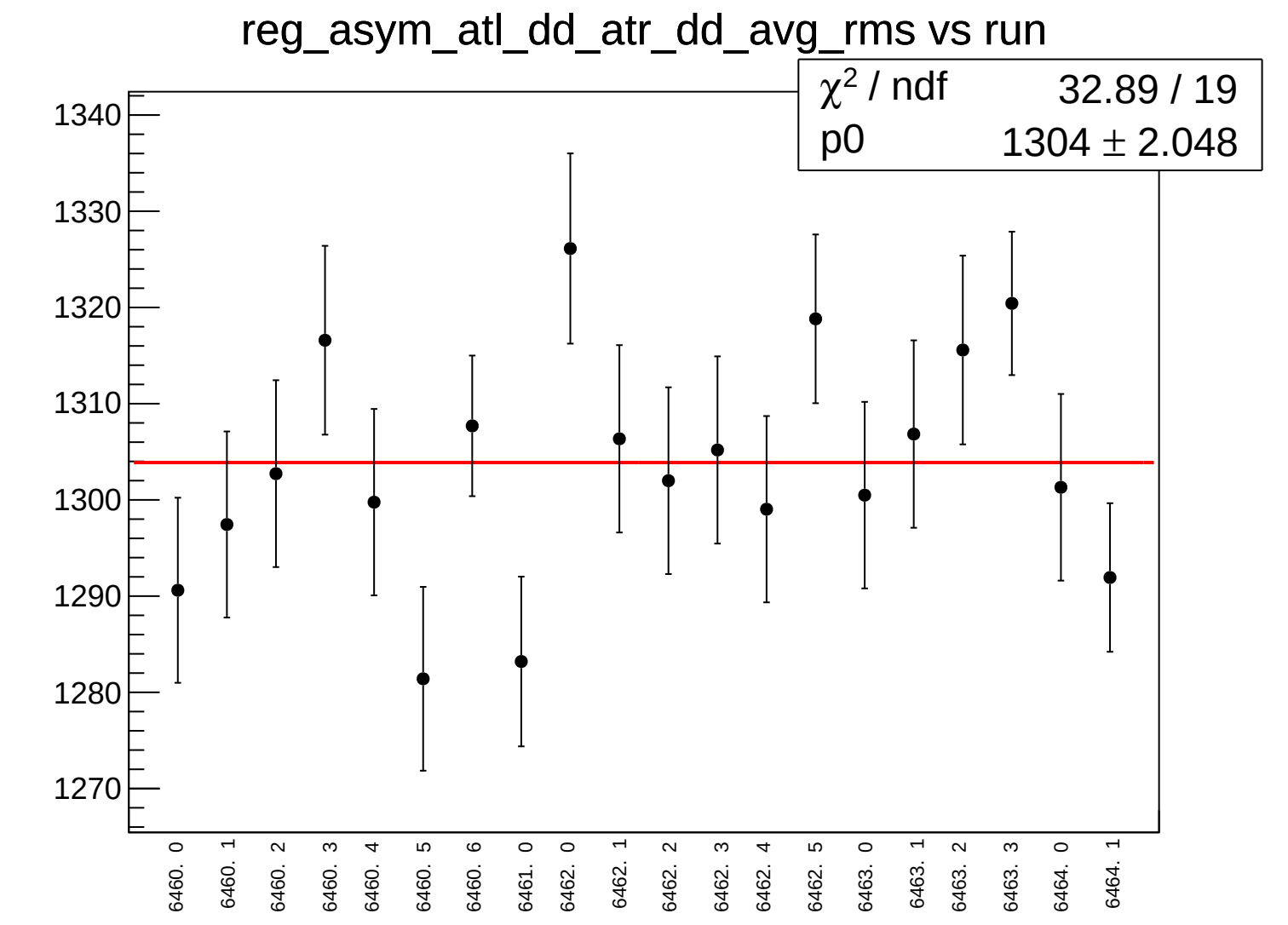

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.94 / 19
p0 −3.006e−13 ± 1.765e−13
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.383
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

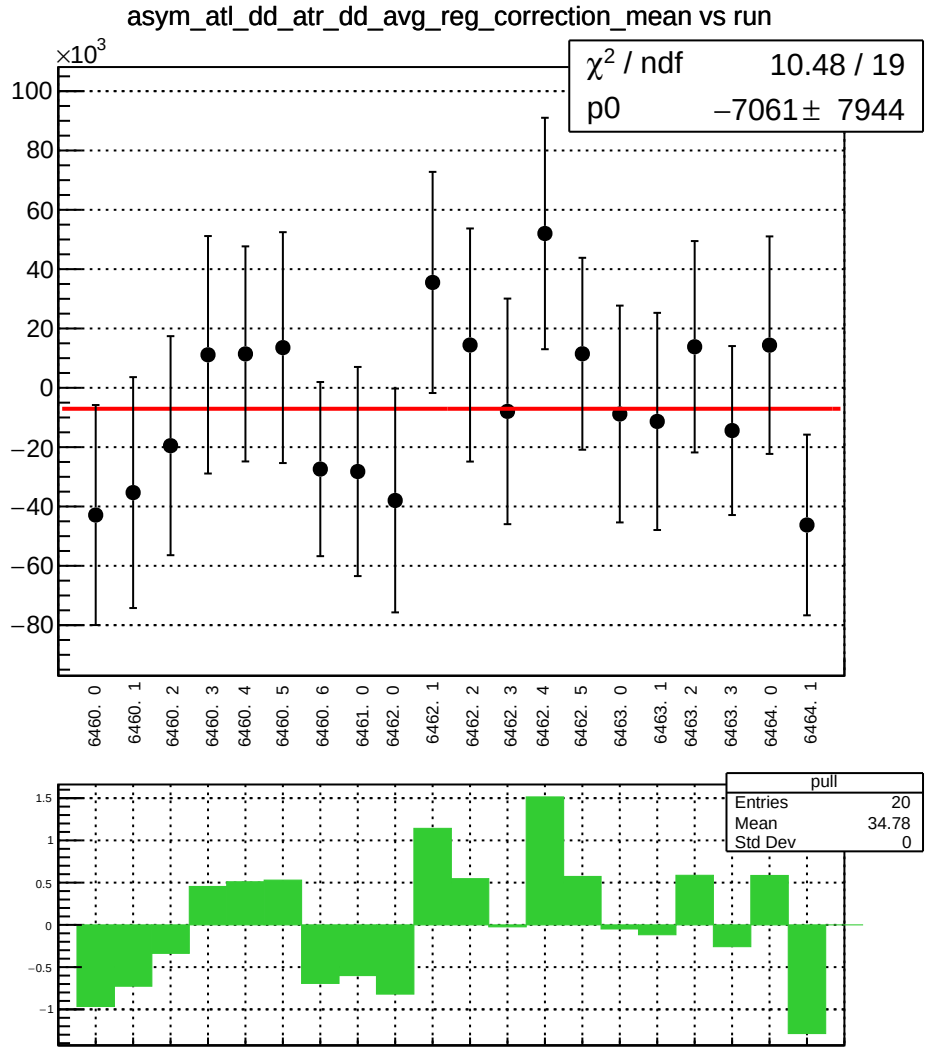

pull1D
Entries 20
Mean 0.08451
Std Dev 0.9696
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

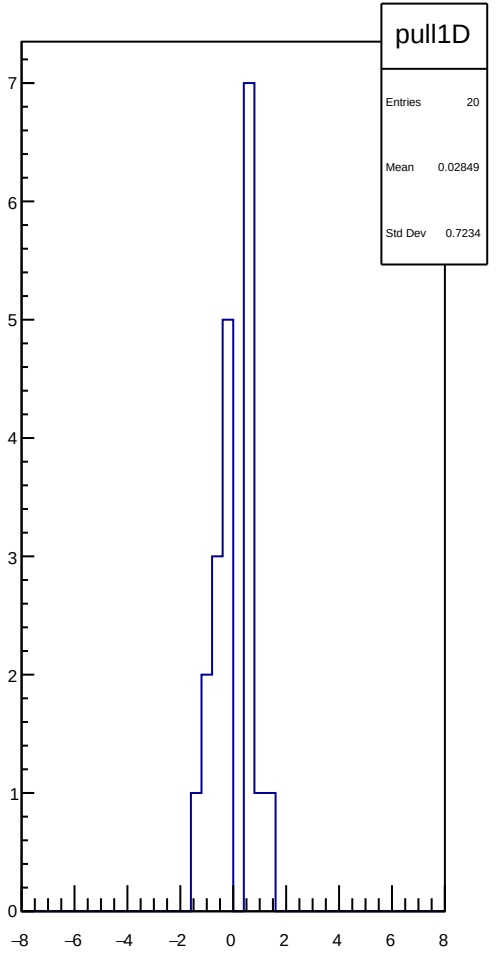

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.12e+04 / 19
p0 7.105e−11 ± 1.248e−13
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

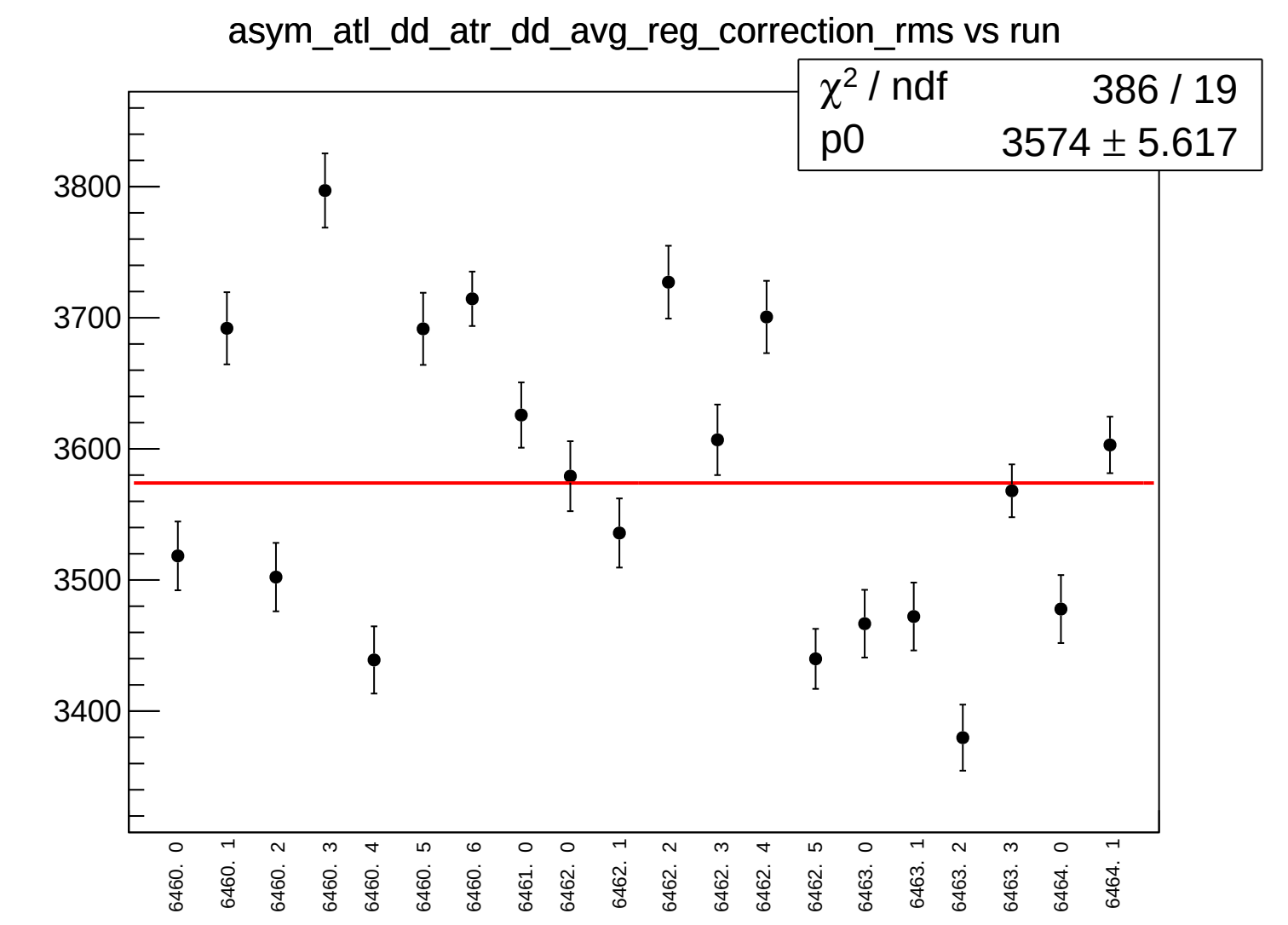

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 22.37 / 19
p0 −5599 ± 2897
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

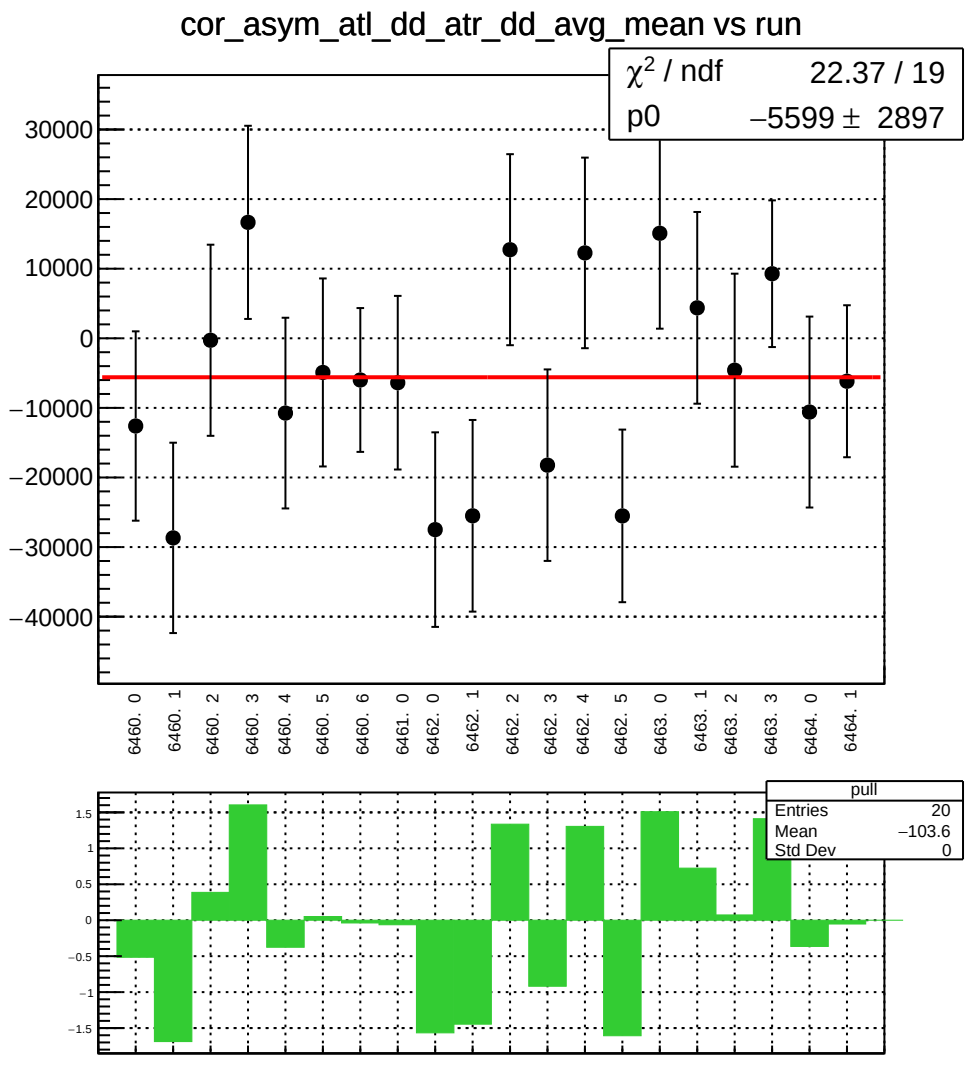

pull1D
Entries 20
Mean −0.01156
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

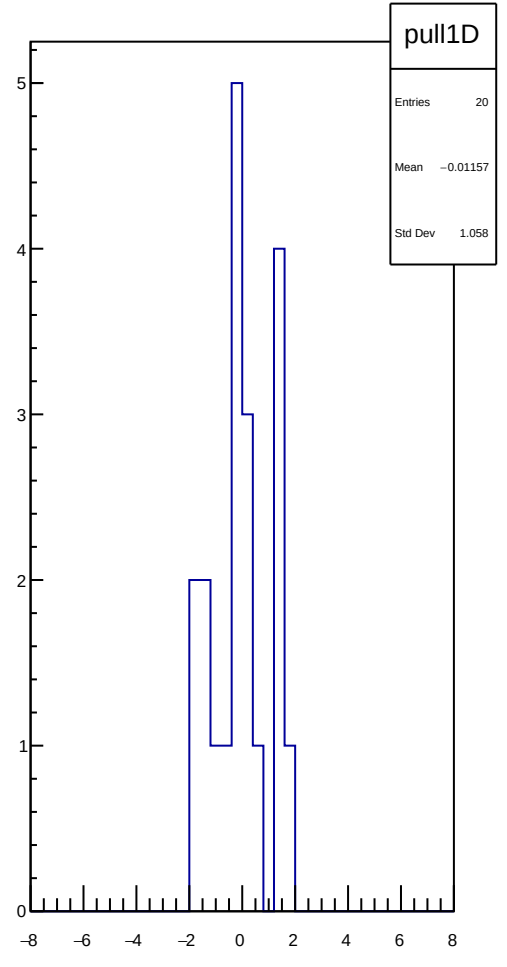

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 32.89 / 19
p0 1304 ± 2.048
1340
1330
1320
1310
1300
1290
1280
1270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

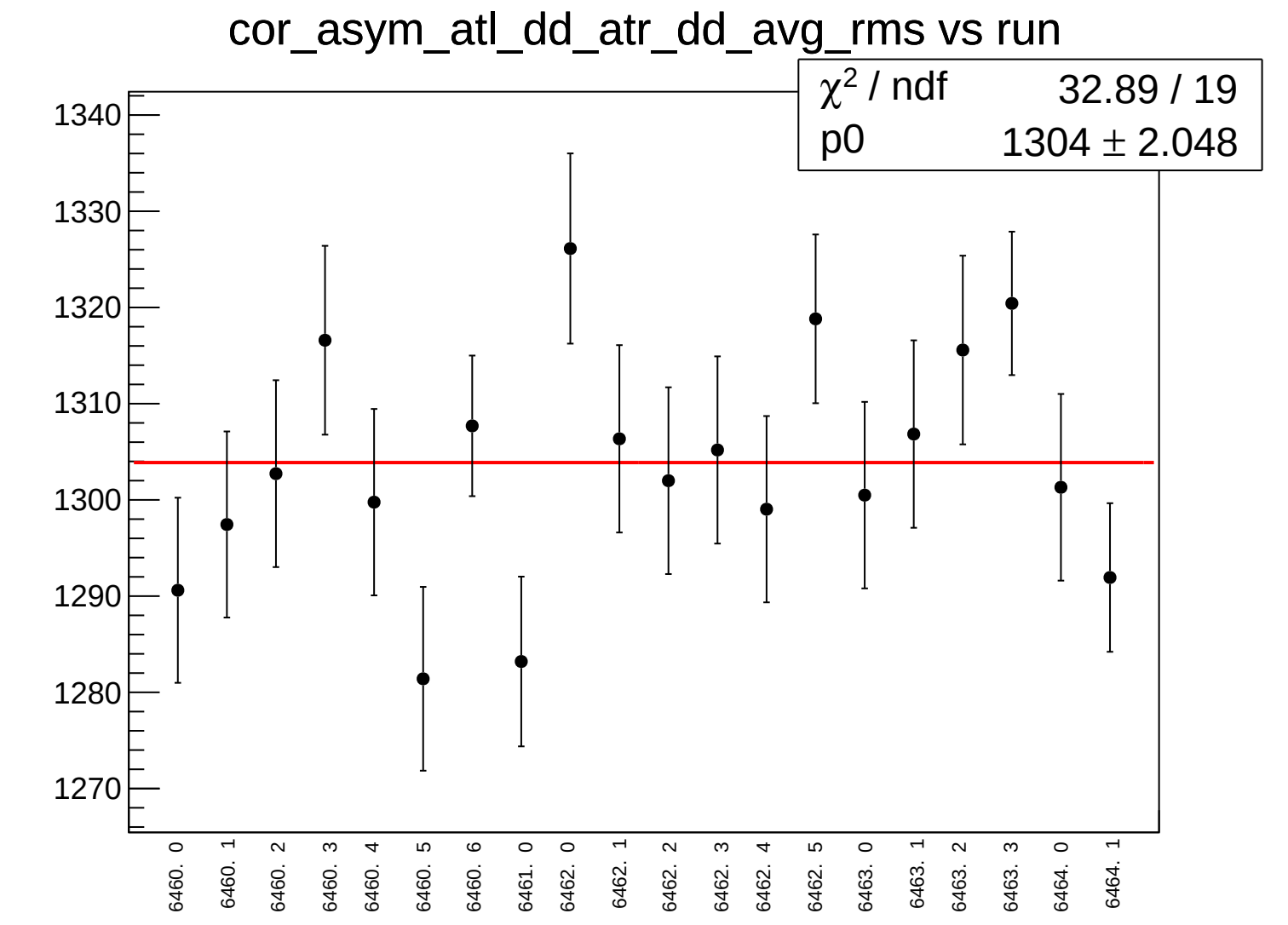

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 10.48 / 19
p0 −7061 ± 7944
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1

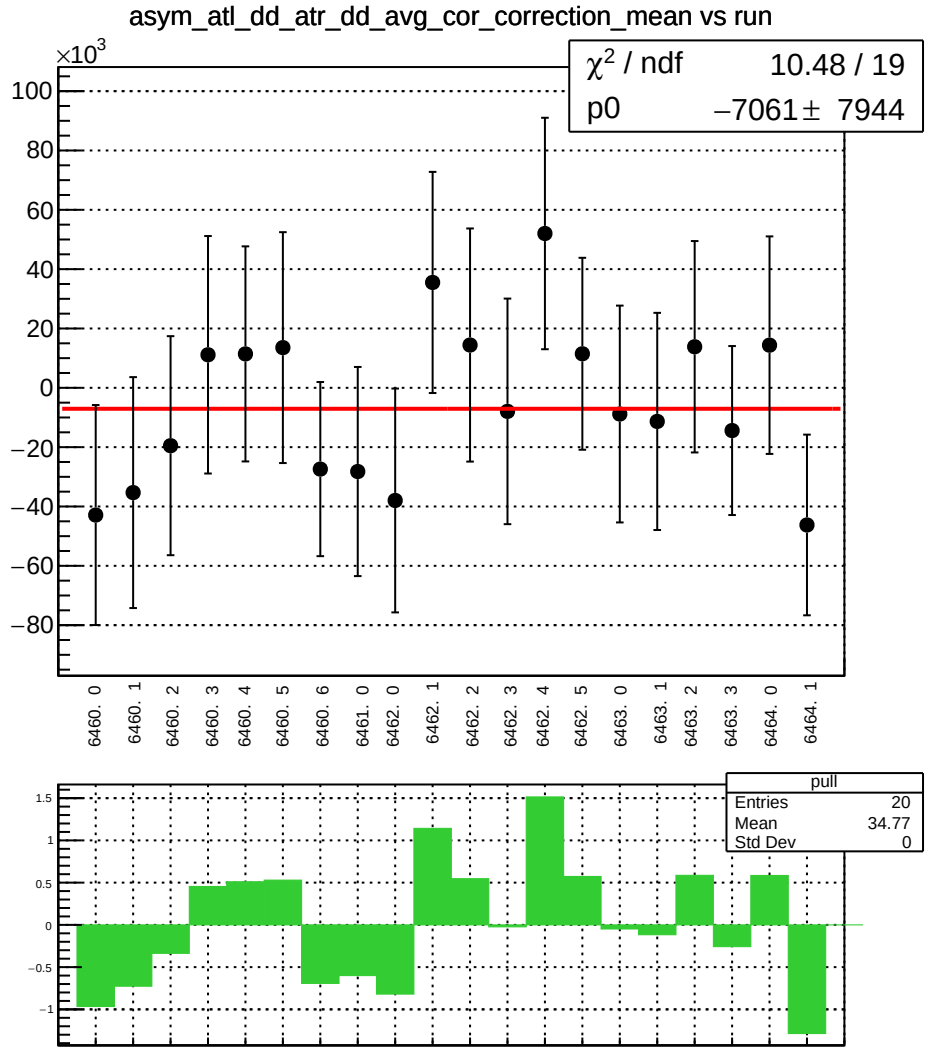

pull1D
Entries 20
Mean 0.02849
Std Dev 0.7234
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

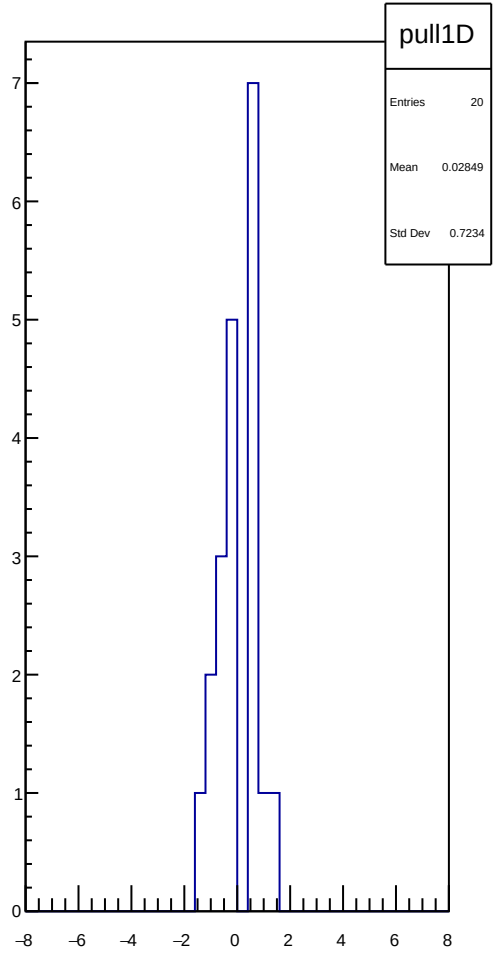

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 386 / 19
p0 3574 ± 5.617
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

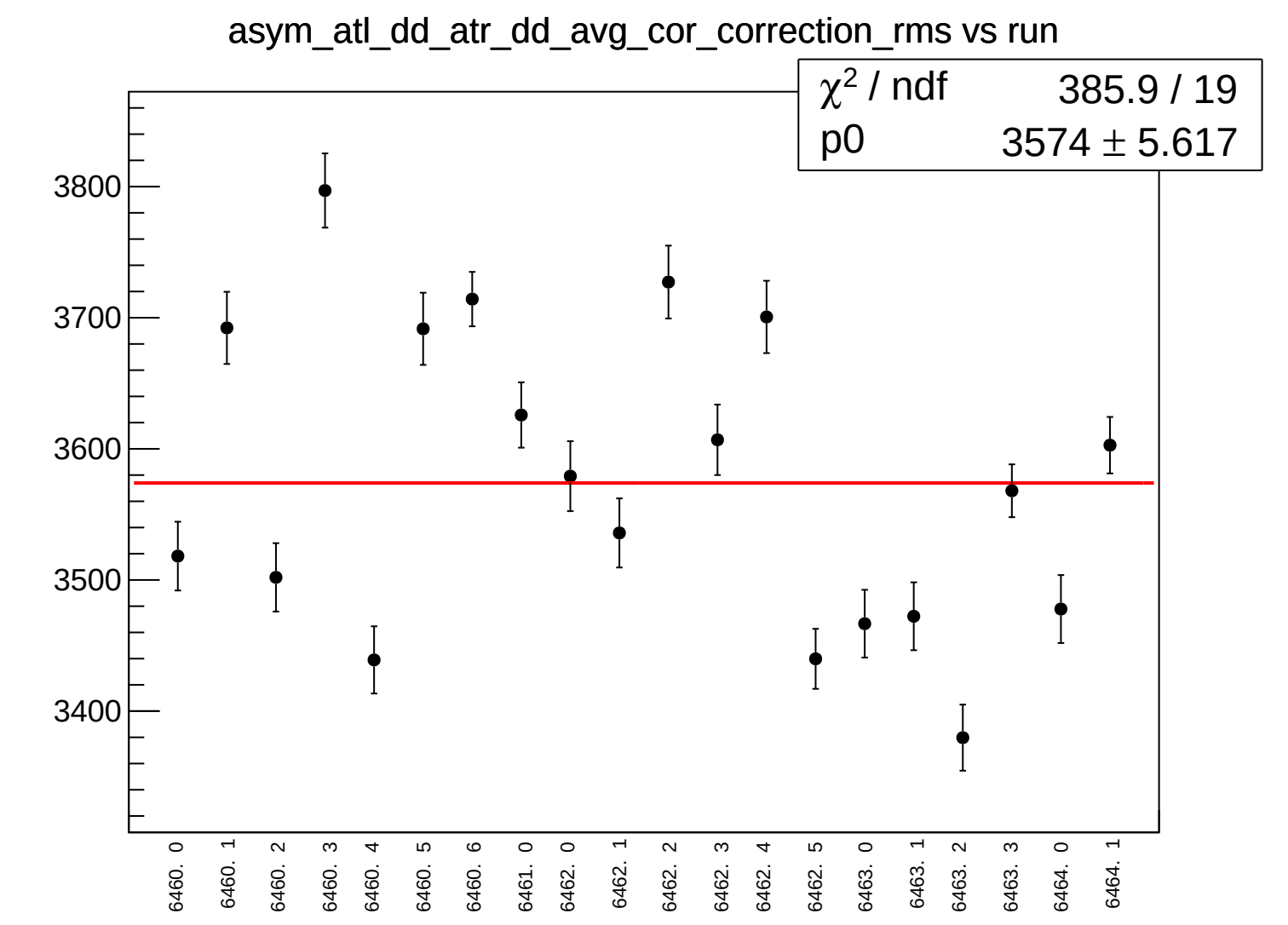

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 22.37 / 19
p0 −5599 ± 2897
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

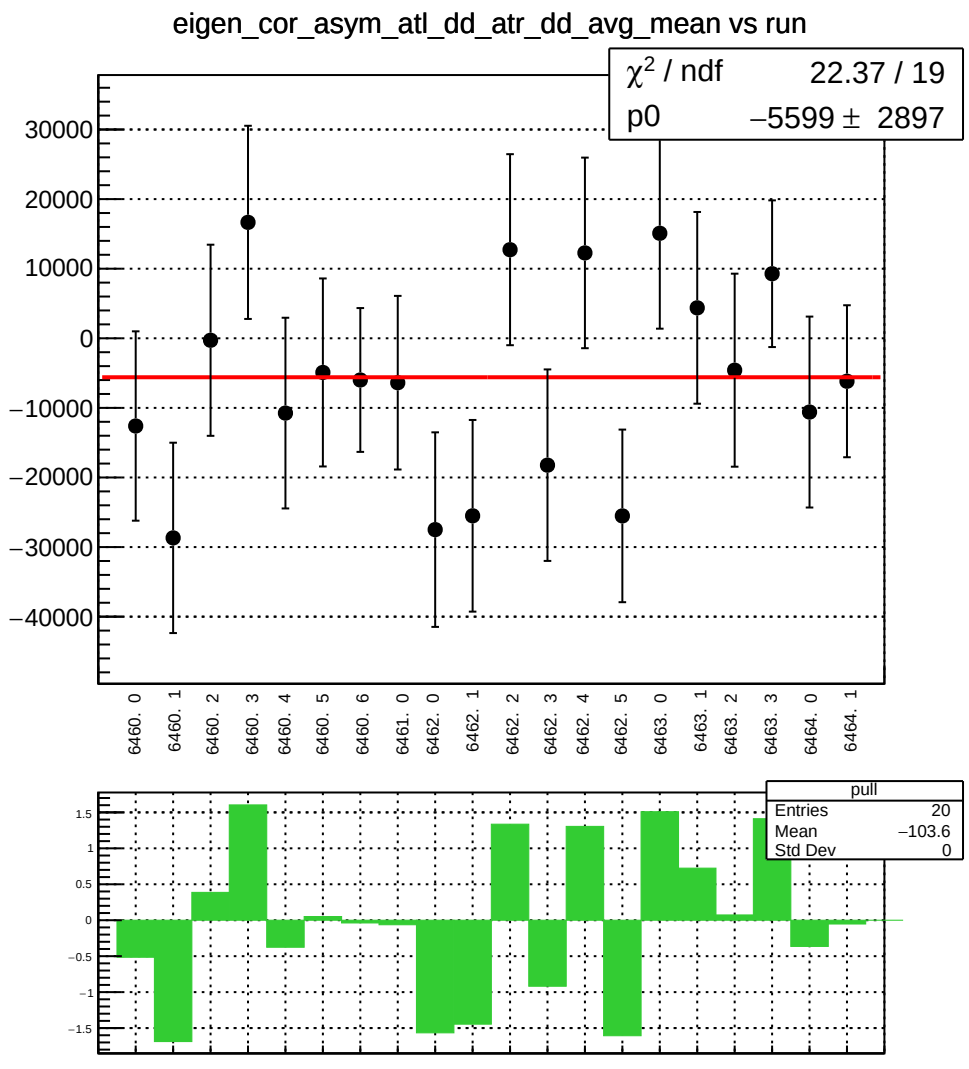

pull1D
Entries 20
Mean −0.01157
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

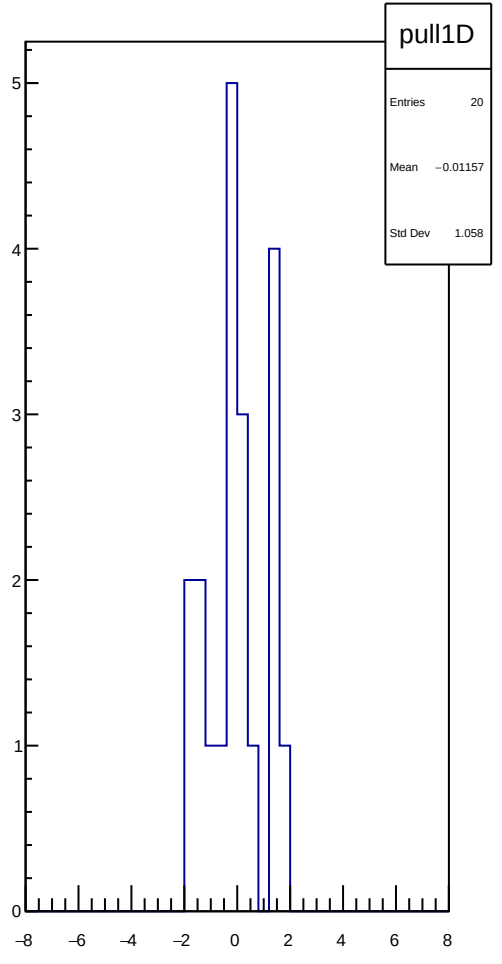

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 32.89 / 19
p0 1304 ± 2.048
1340
1330
1320
1310
1300
1290
1280
1270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

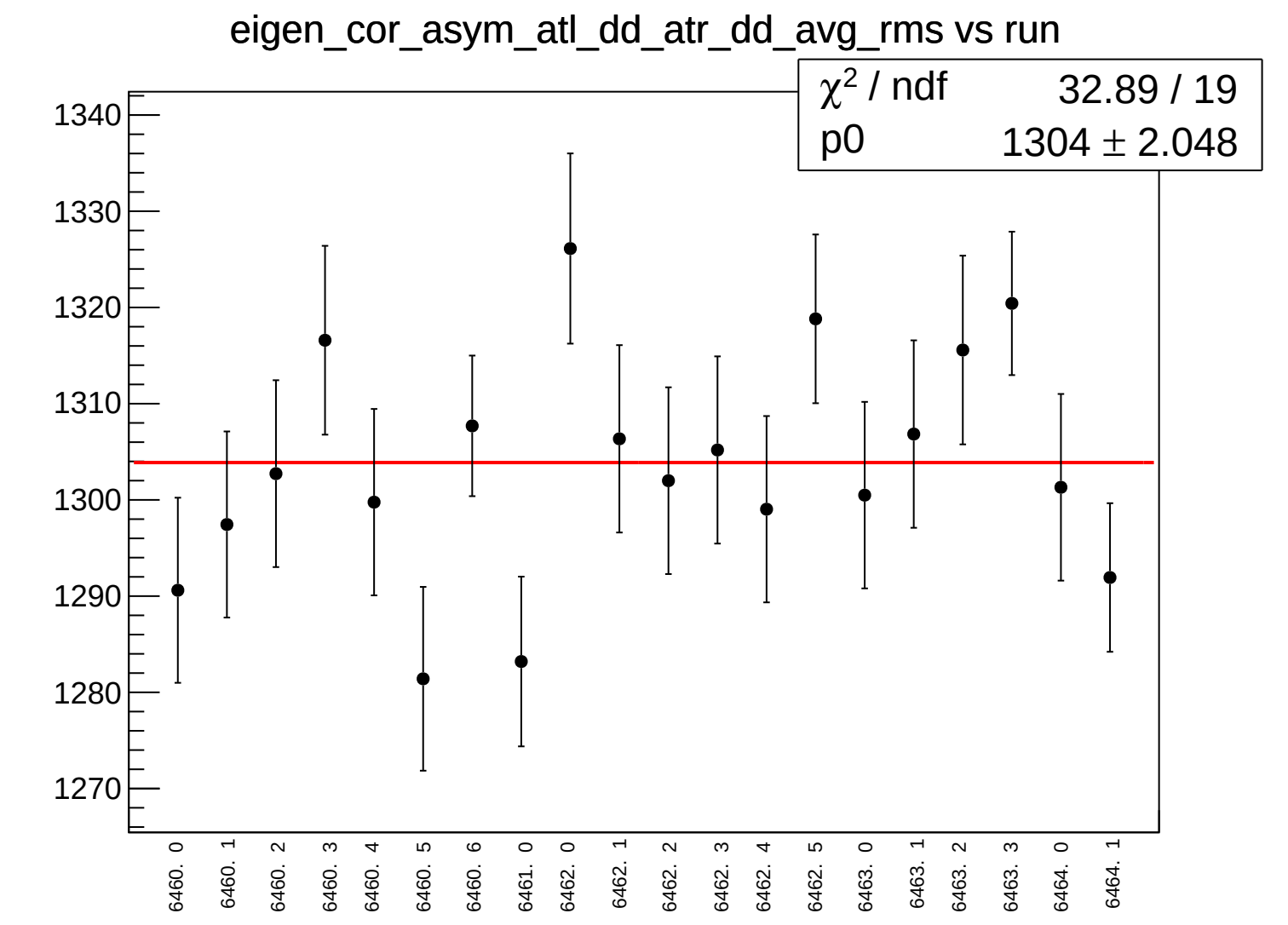

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 10.48 / 19
p0 −7061 ± 7944
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1

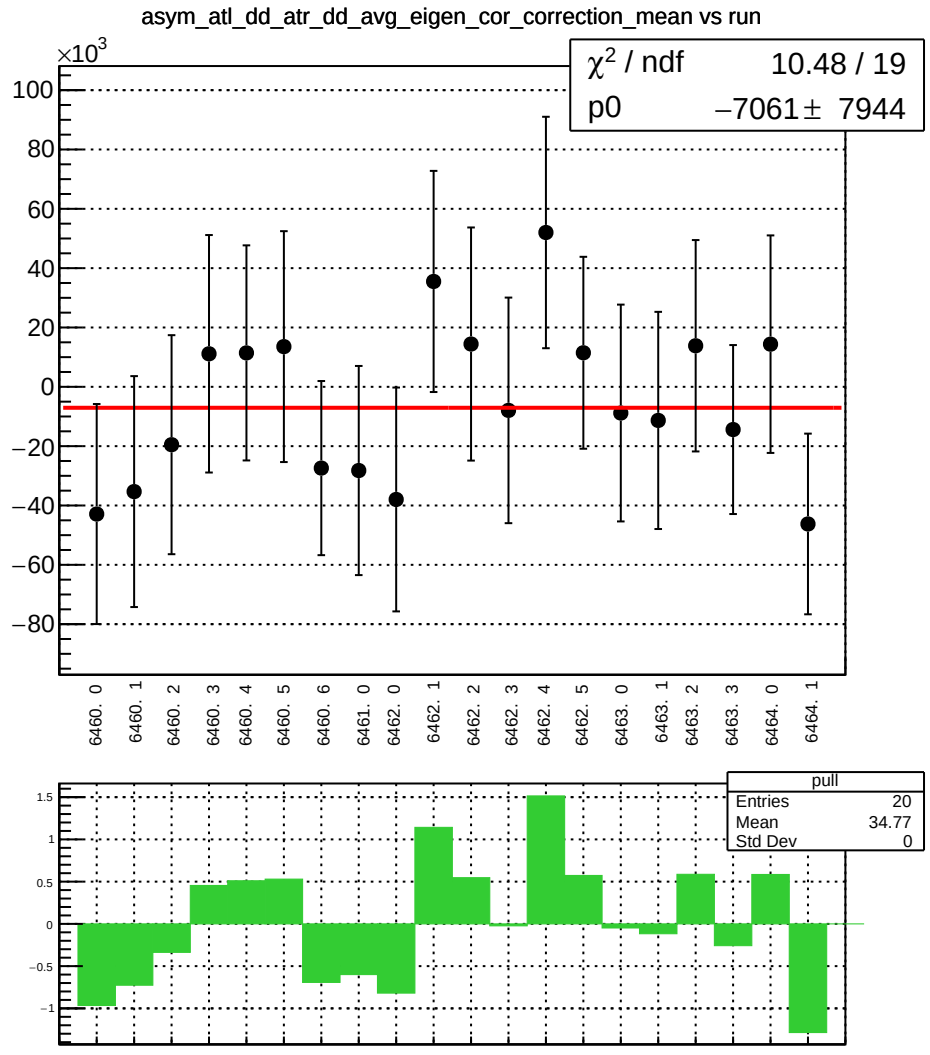

pull1D
Entries 20
Mean 0.02849
Std Dev 0.7234
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

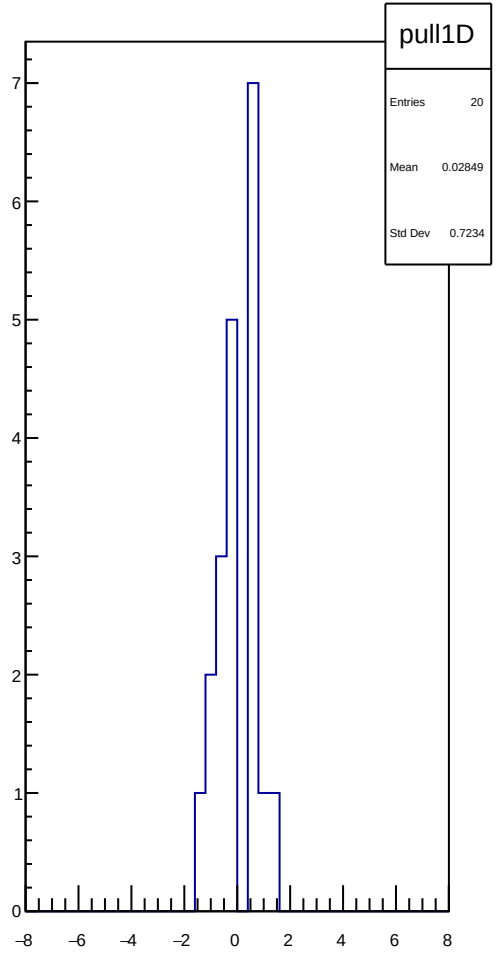

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 385.9 / 19
p0 3574 ± 5.617
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

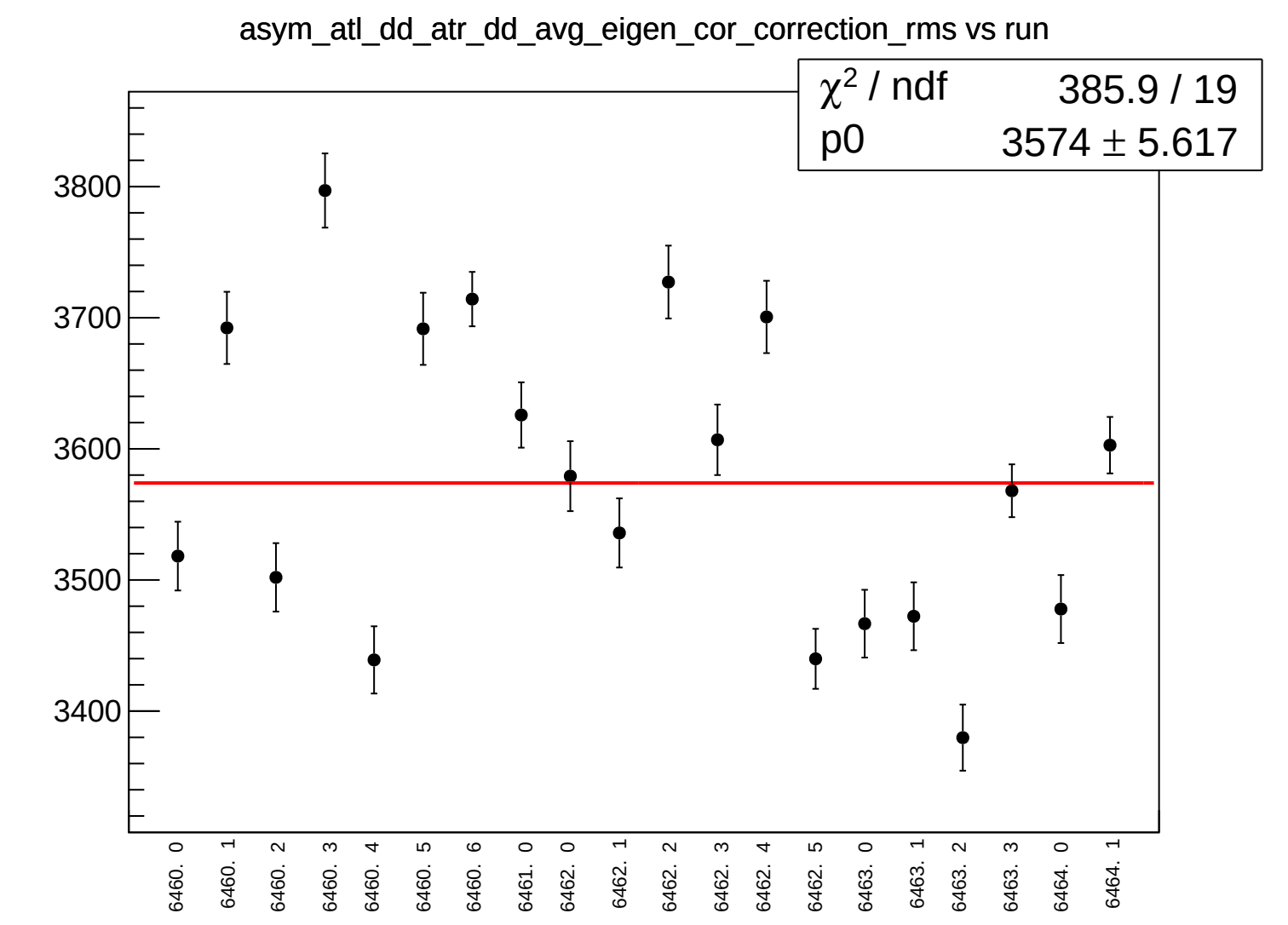

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 22.37 / 19
p0 −5599 ± 2897
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

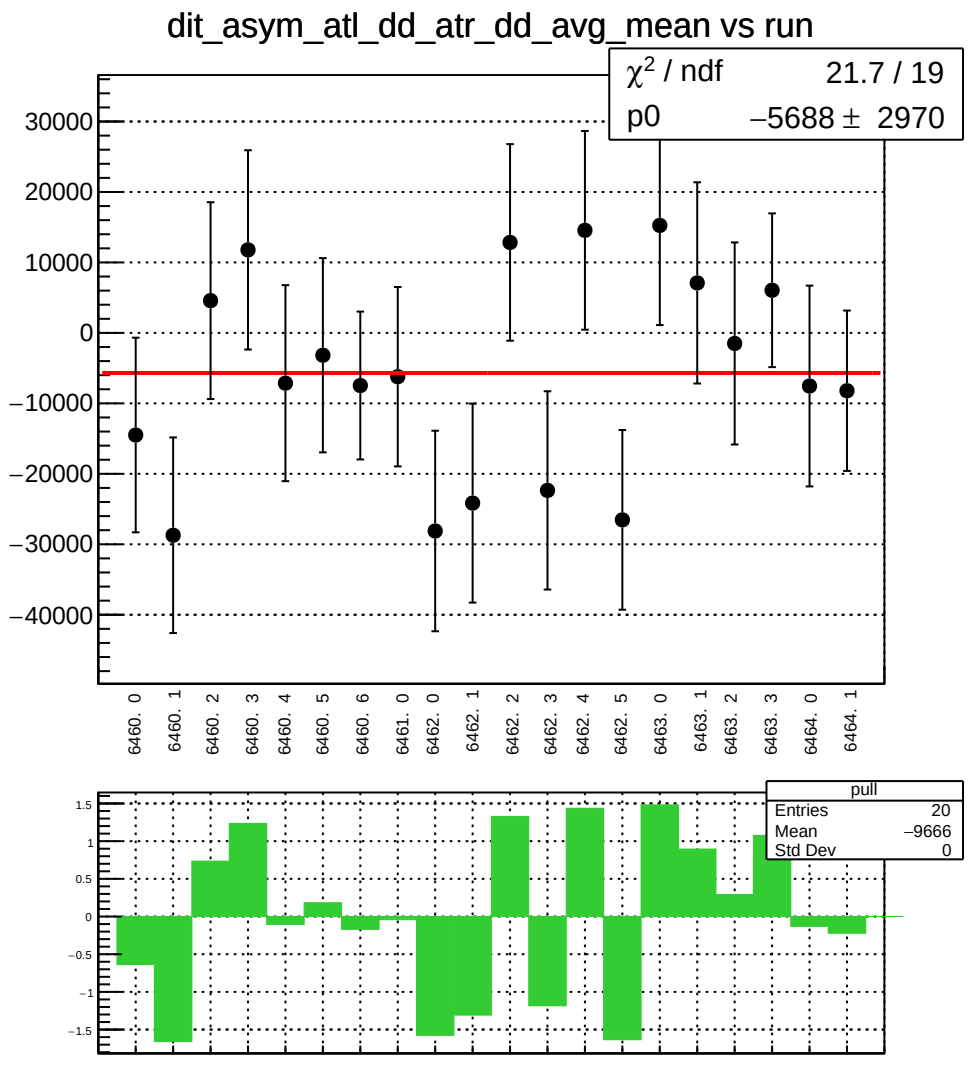

pull1D
Entries 20
Mean −0.01157
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

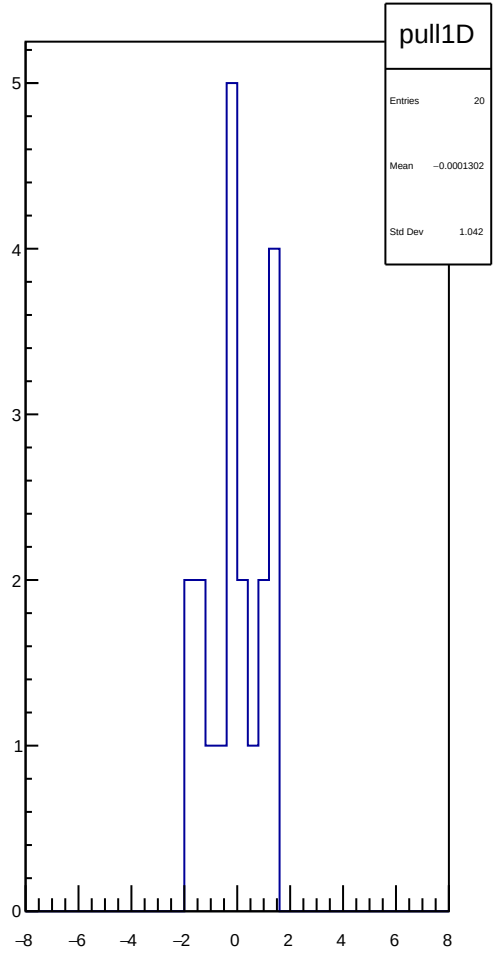

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 32.89 / 19
p0 1304 ± 2.048
1340
1330
1320
1310
1300
1290
1280
1270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

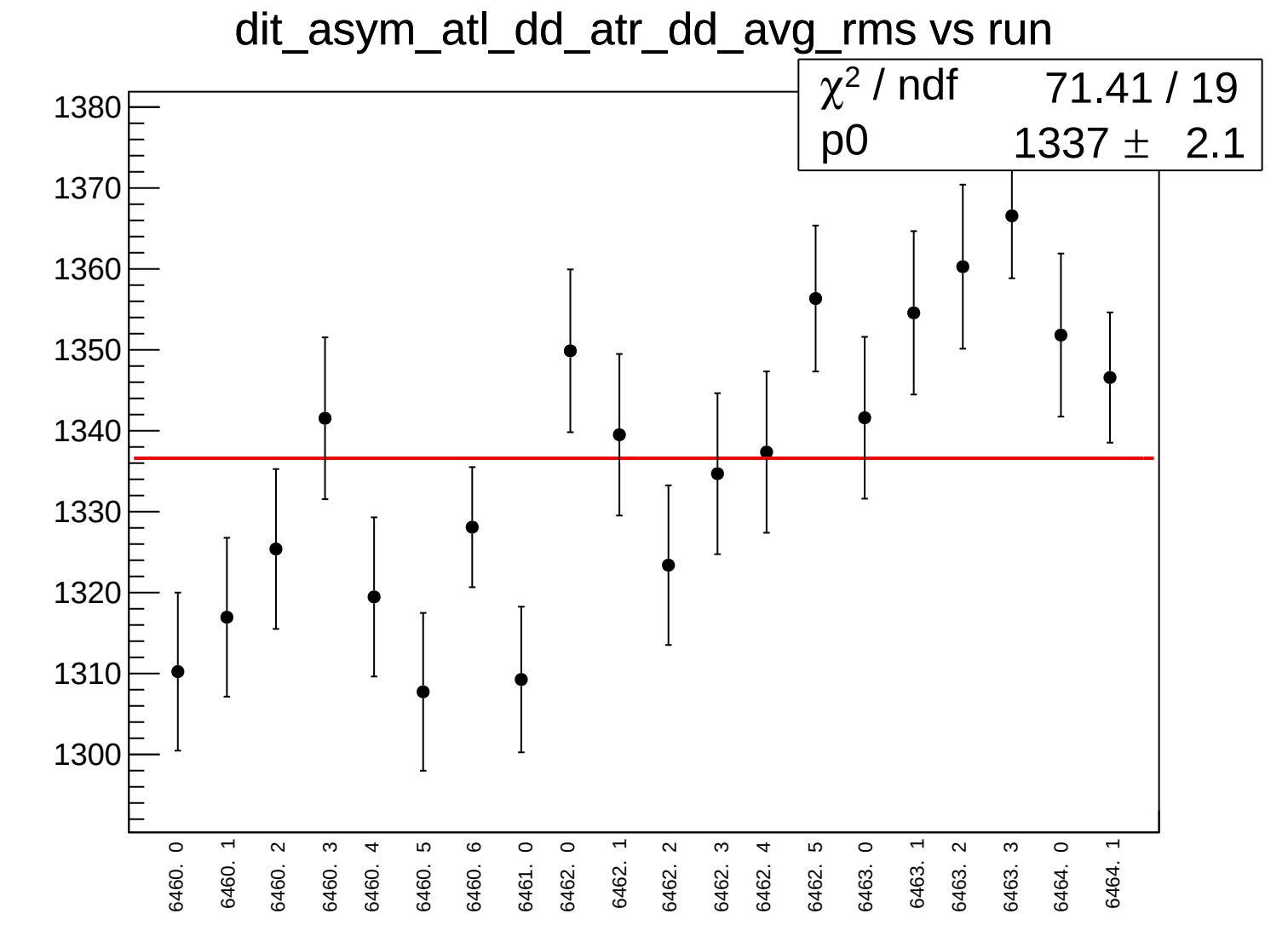

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 10.48 / 19
p0 −7061 ± 7944
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1

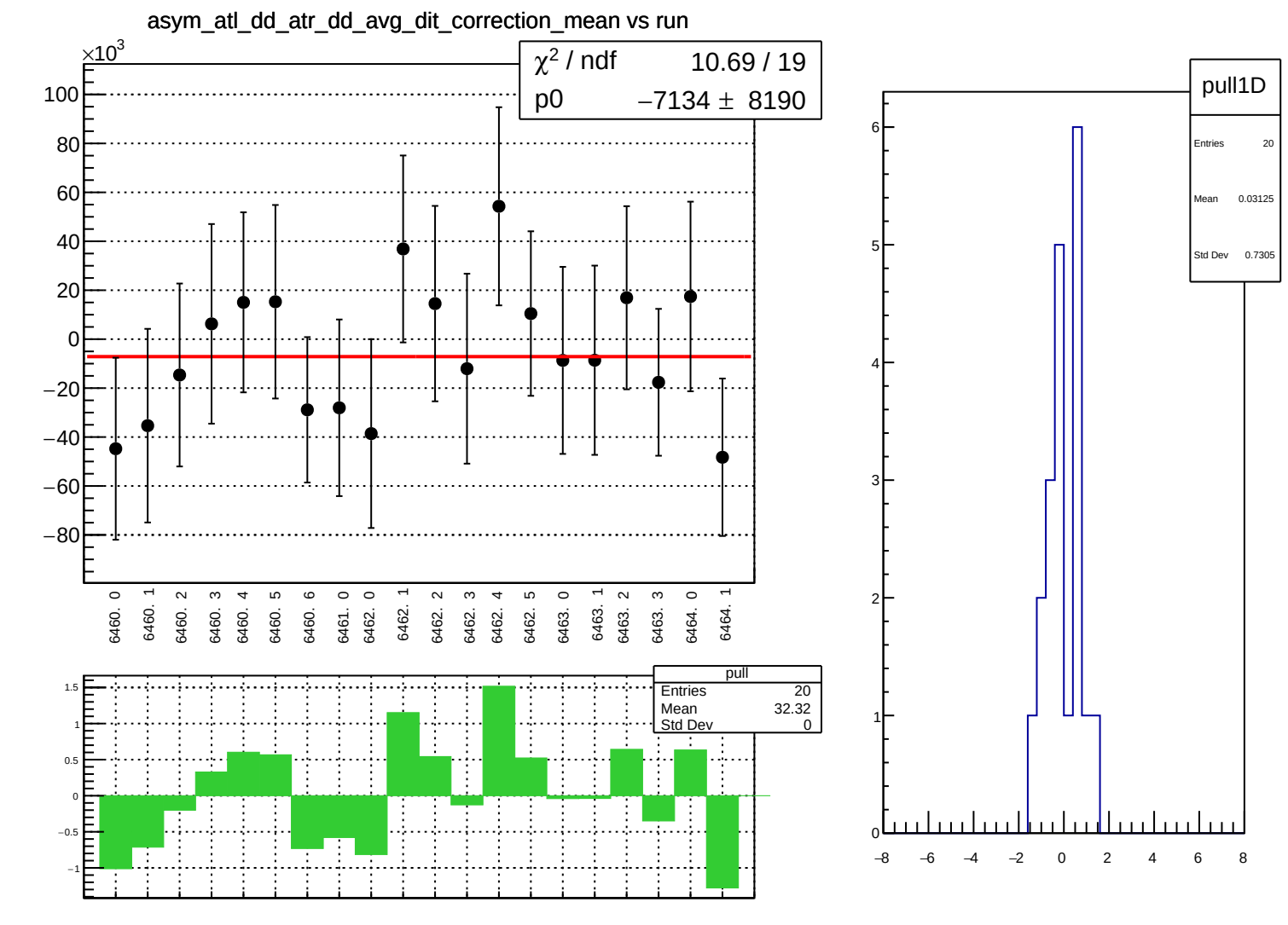

pull1D
Entries 20
Mean 0.02849
Std Dev 0.7234
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

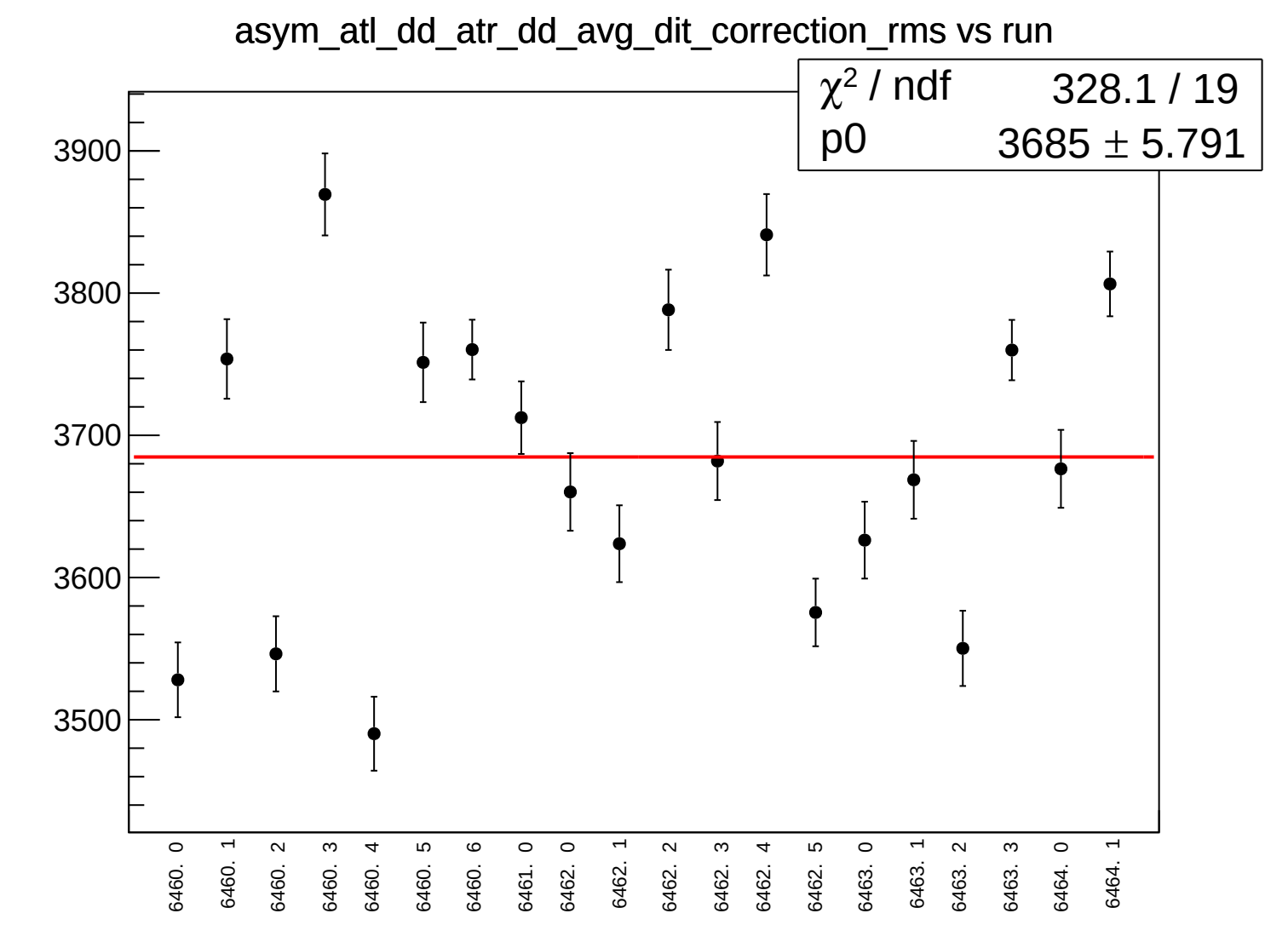

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 385.9 / 19
p0 3574 ± 5.617
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

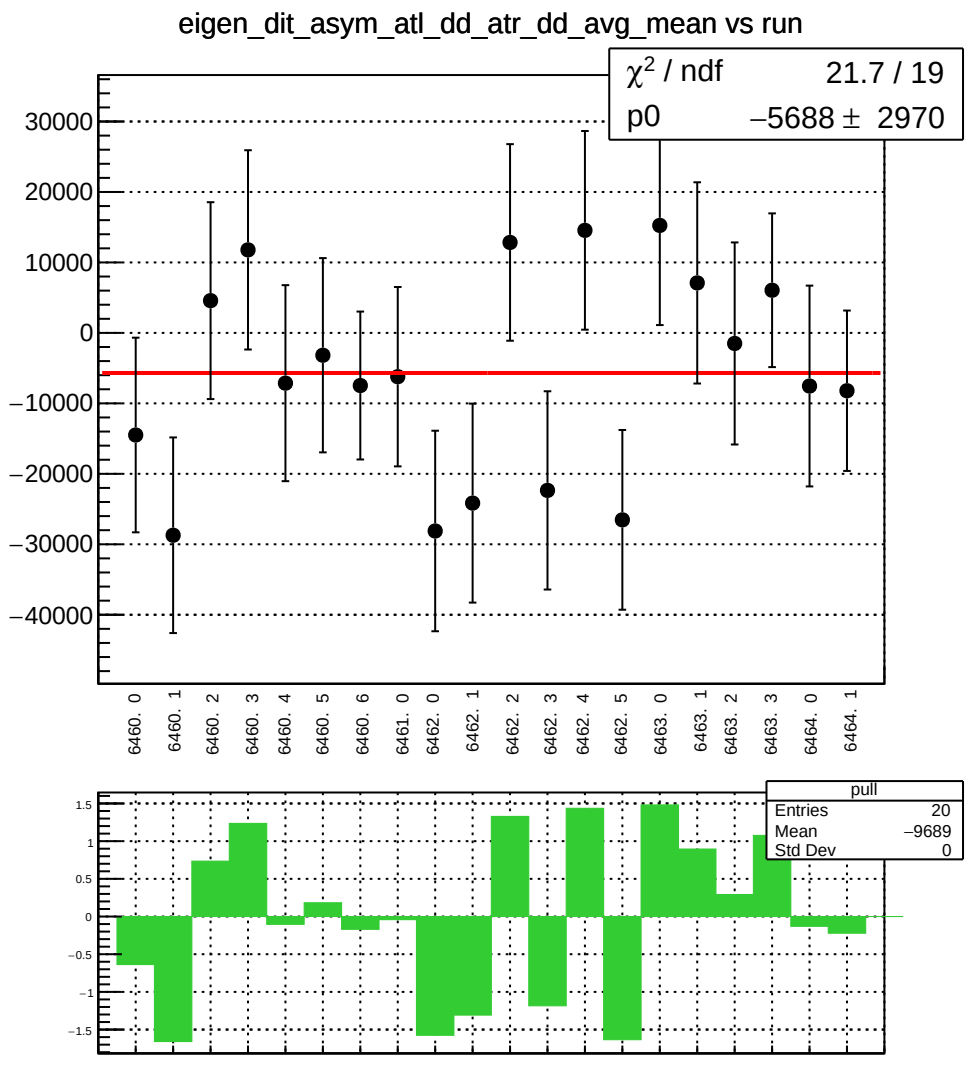

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 21.7 / 19
p0 −5688 ± 2970
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −9666
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

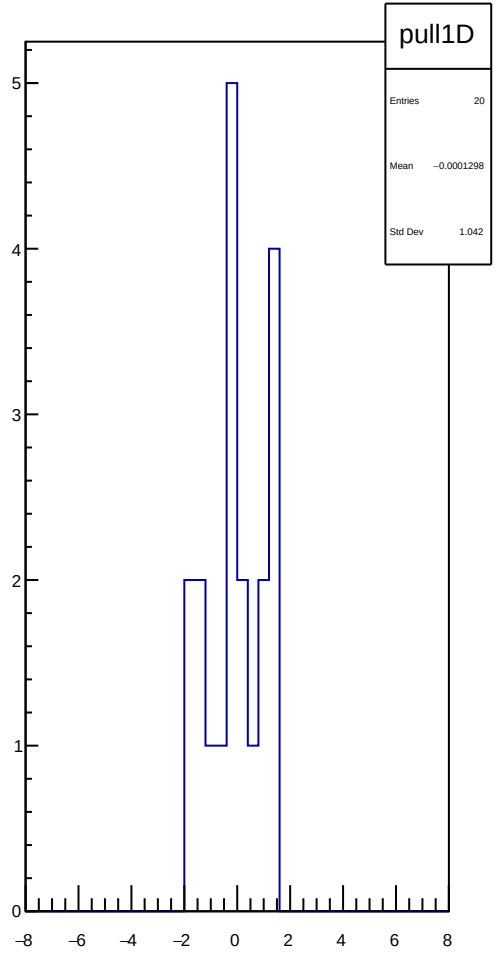

pull1D
Entries 20
Mean −0.0001302
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

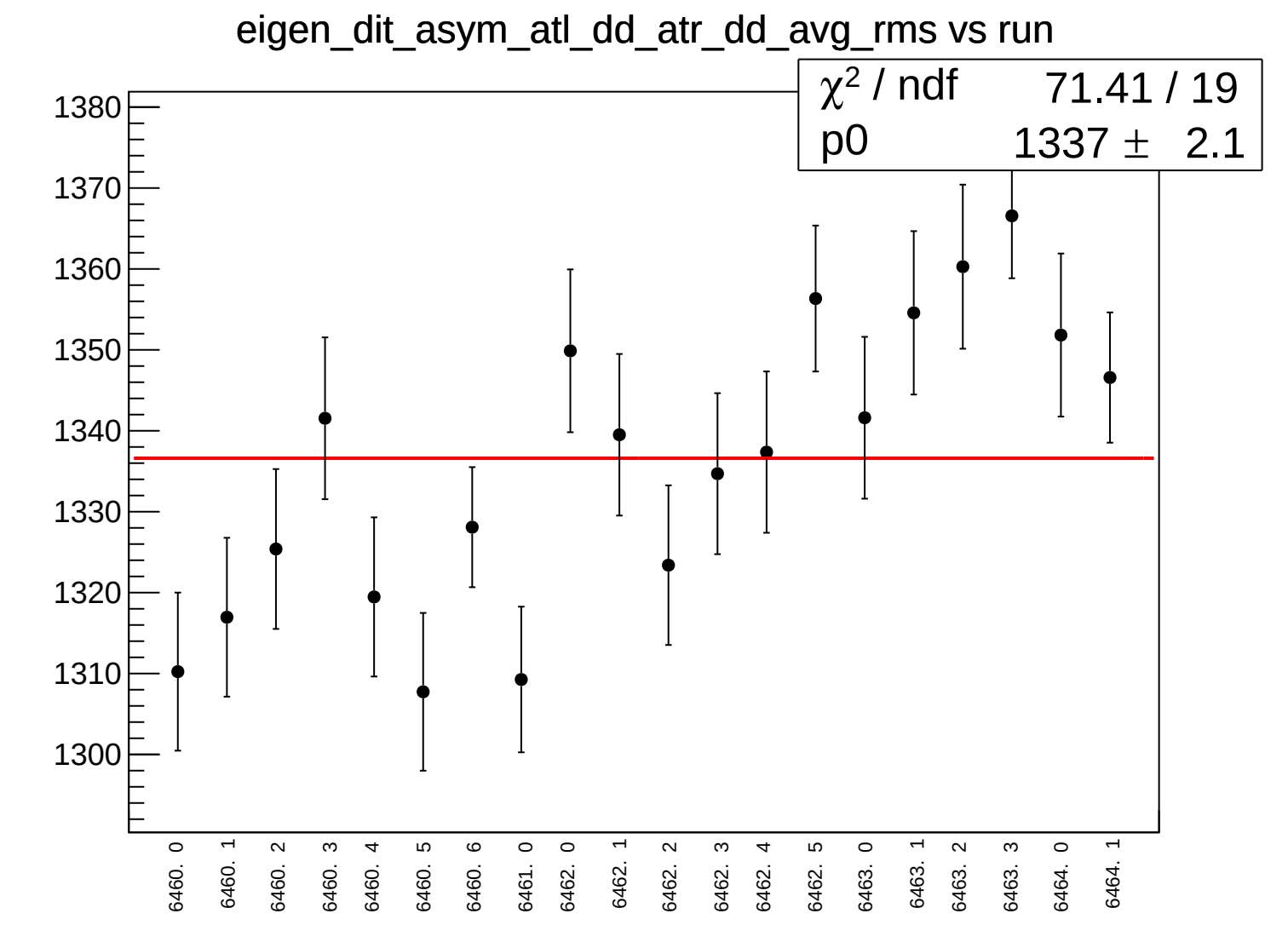

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 71.41 / 19
p0 1337 ± 2.1
1380
1370
1360
1350
1340
1330
1320
1310
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

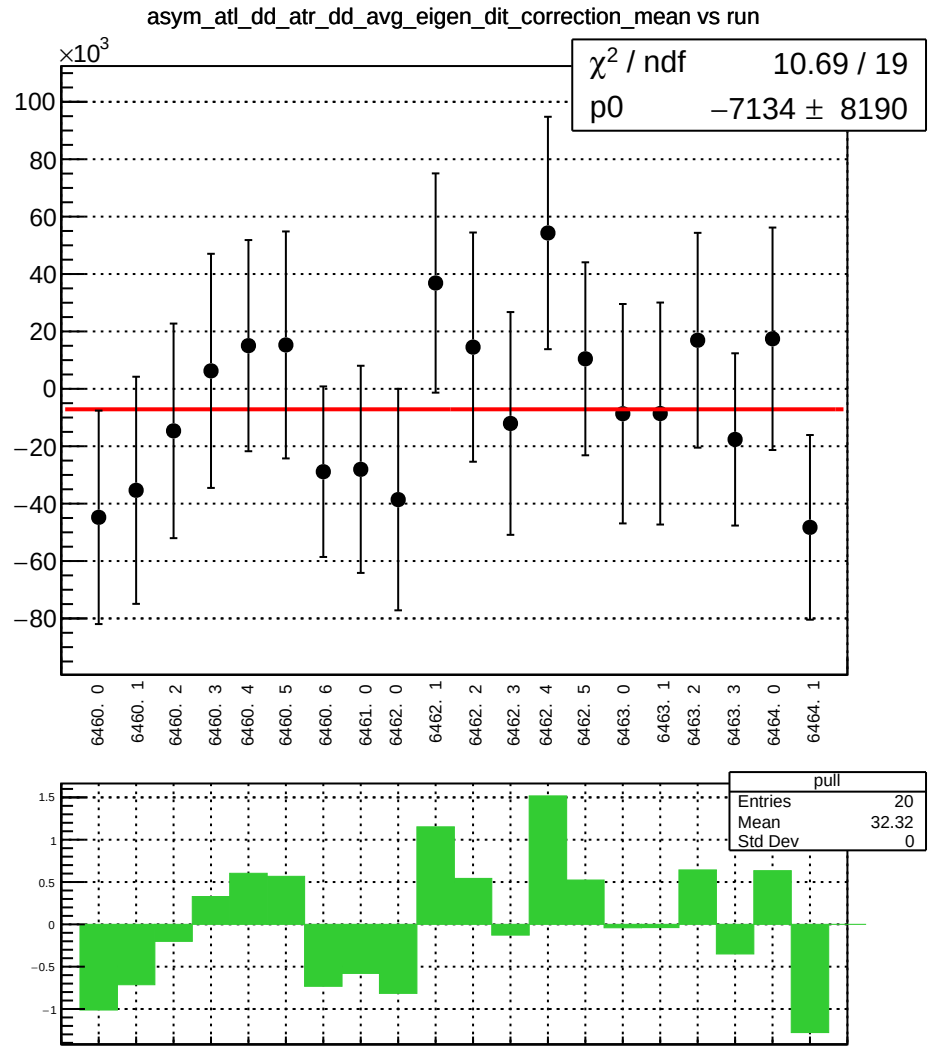

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 10.69 / 19
p0 −7134 ± 8190
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03125
Std Dev 0.7305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

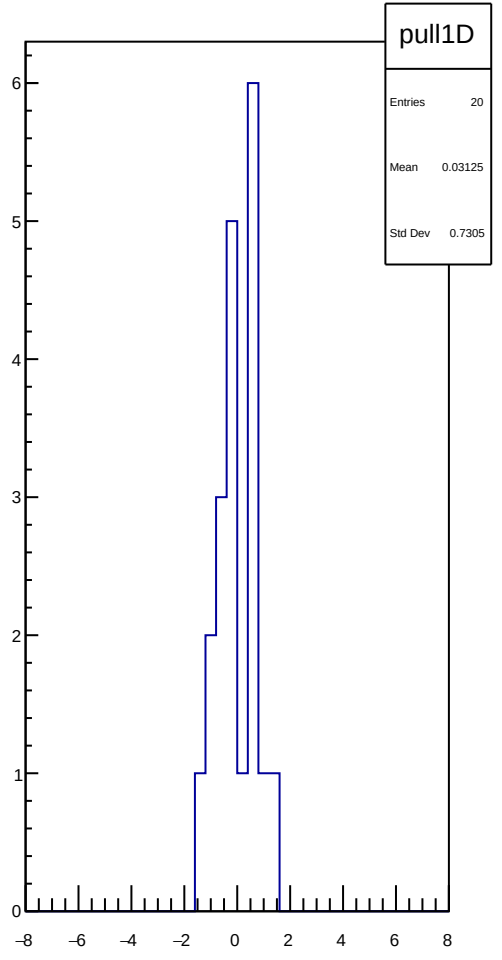

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 328.1 / 19
p0 3685 ± 5.791
3900
3800
3700
3600
3500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

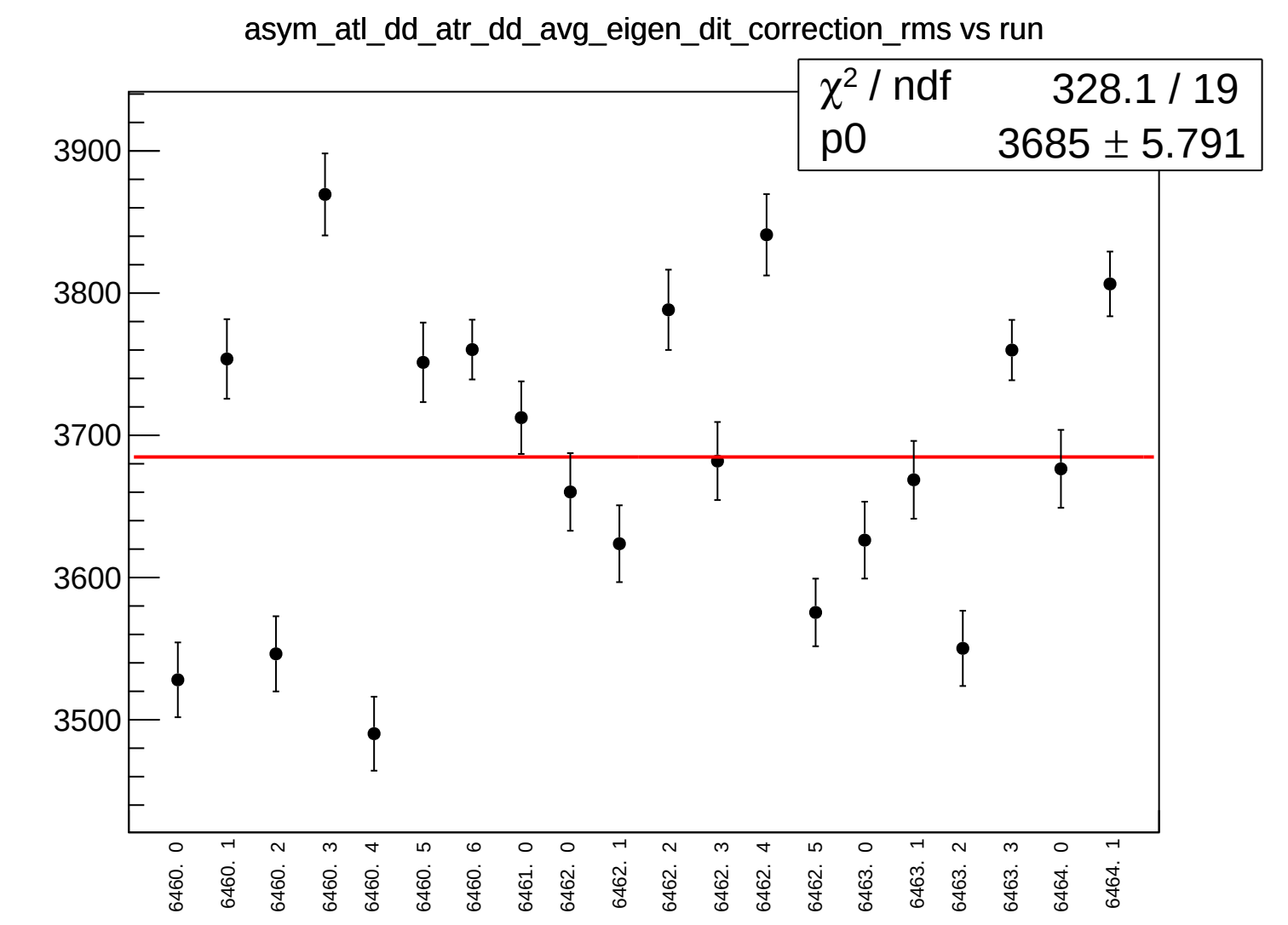

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 21.7 / 19
p0 −5688 ± 2970
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −9689
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

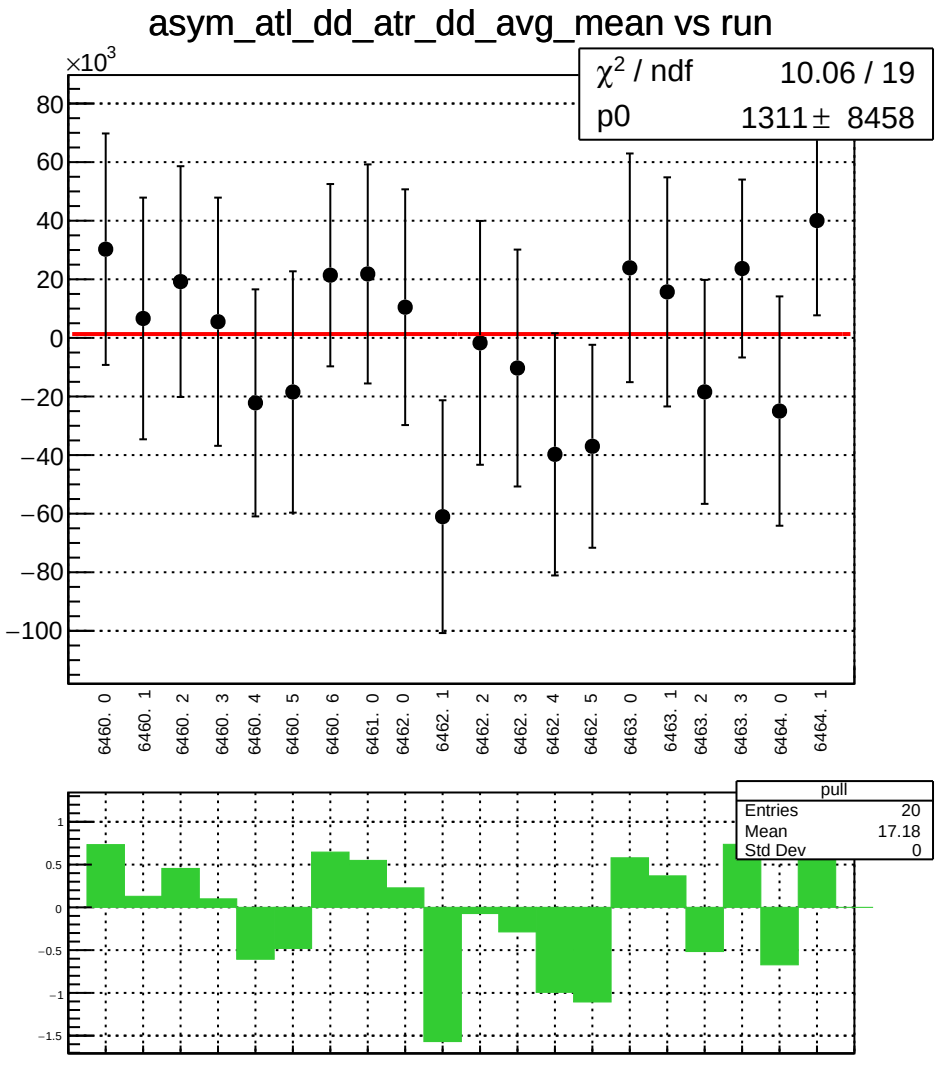

pull1D
Entries 20
Mean −0.0001298
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

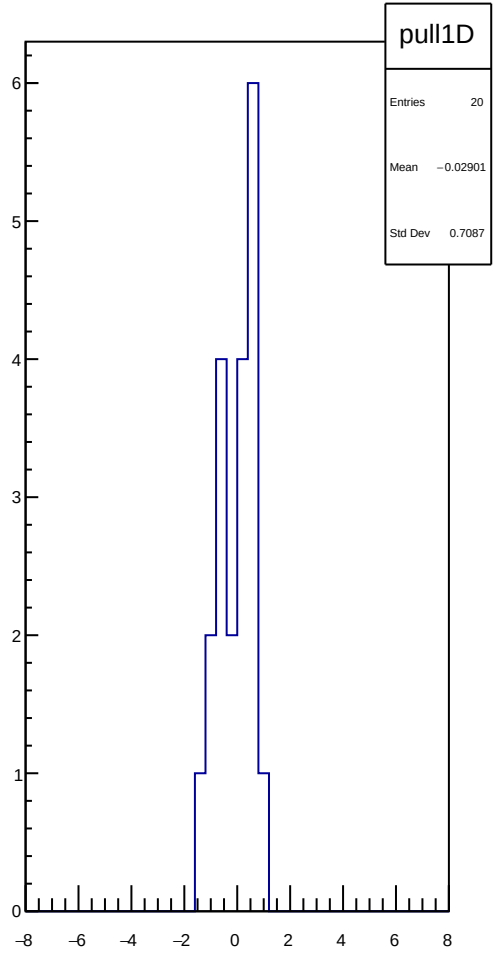

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 71.41 / 19
p0 1337 ± 2.1
1380
1370
1360
1350
1340
1330
1320
1310
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

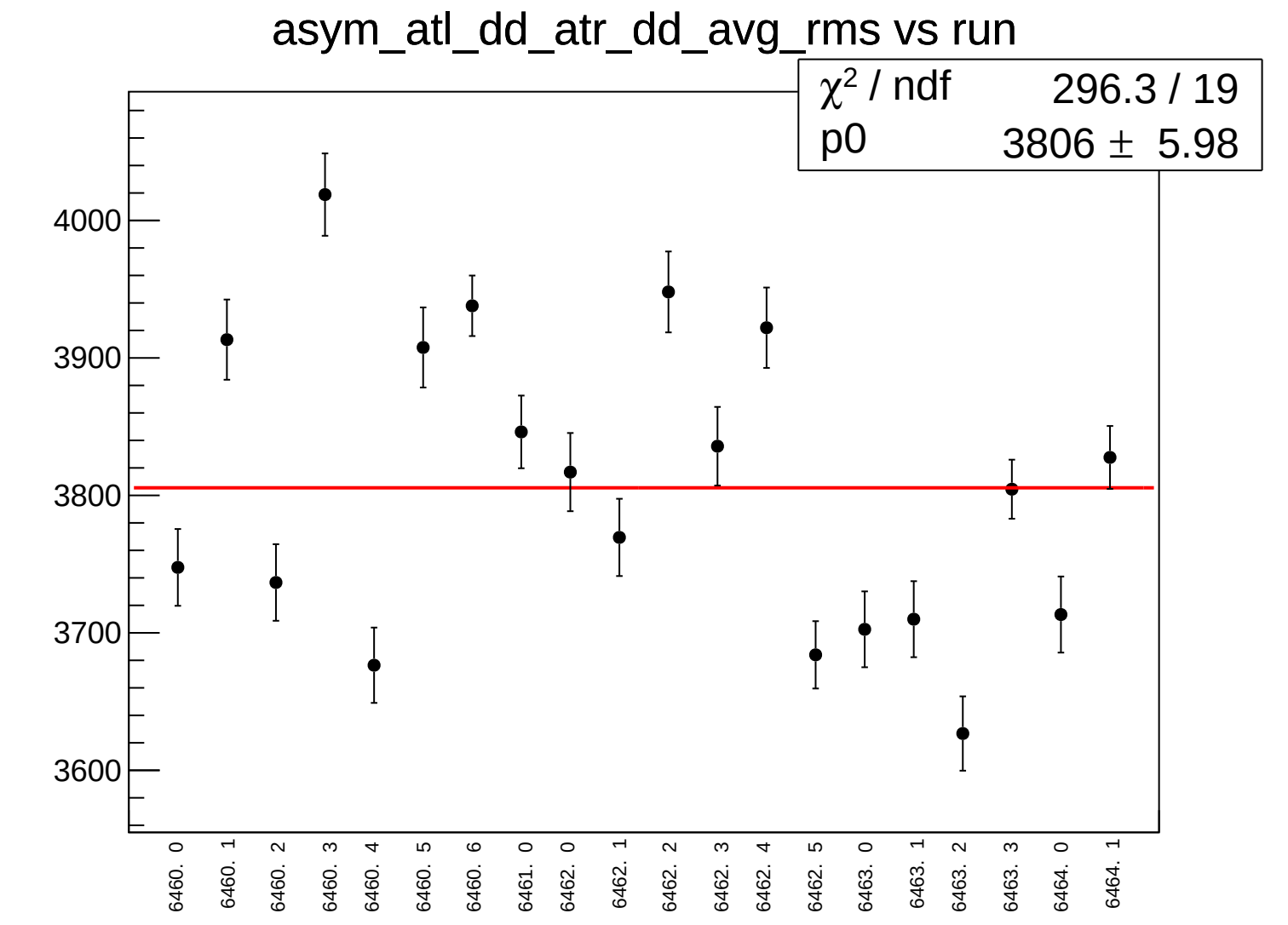

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 10.69 / 19
p0 −7134 ± 8190
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1

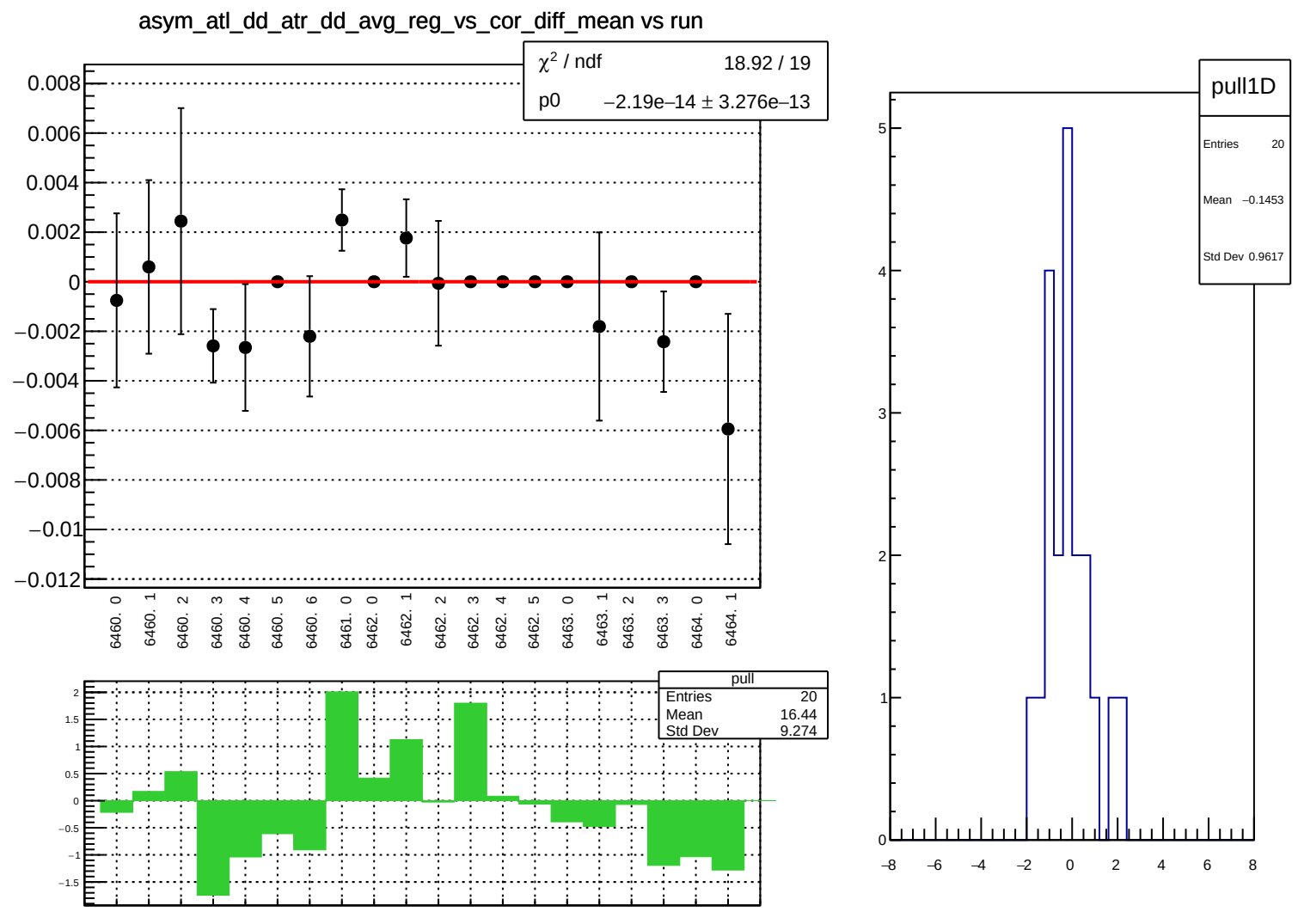

pull1D
Entries 20
Mean 0.03125
Std Dev 0.7305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

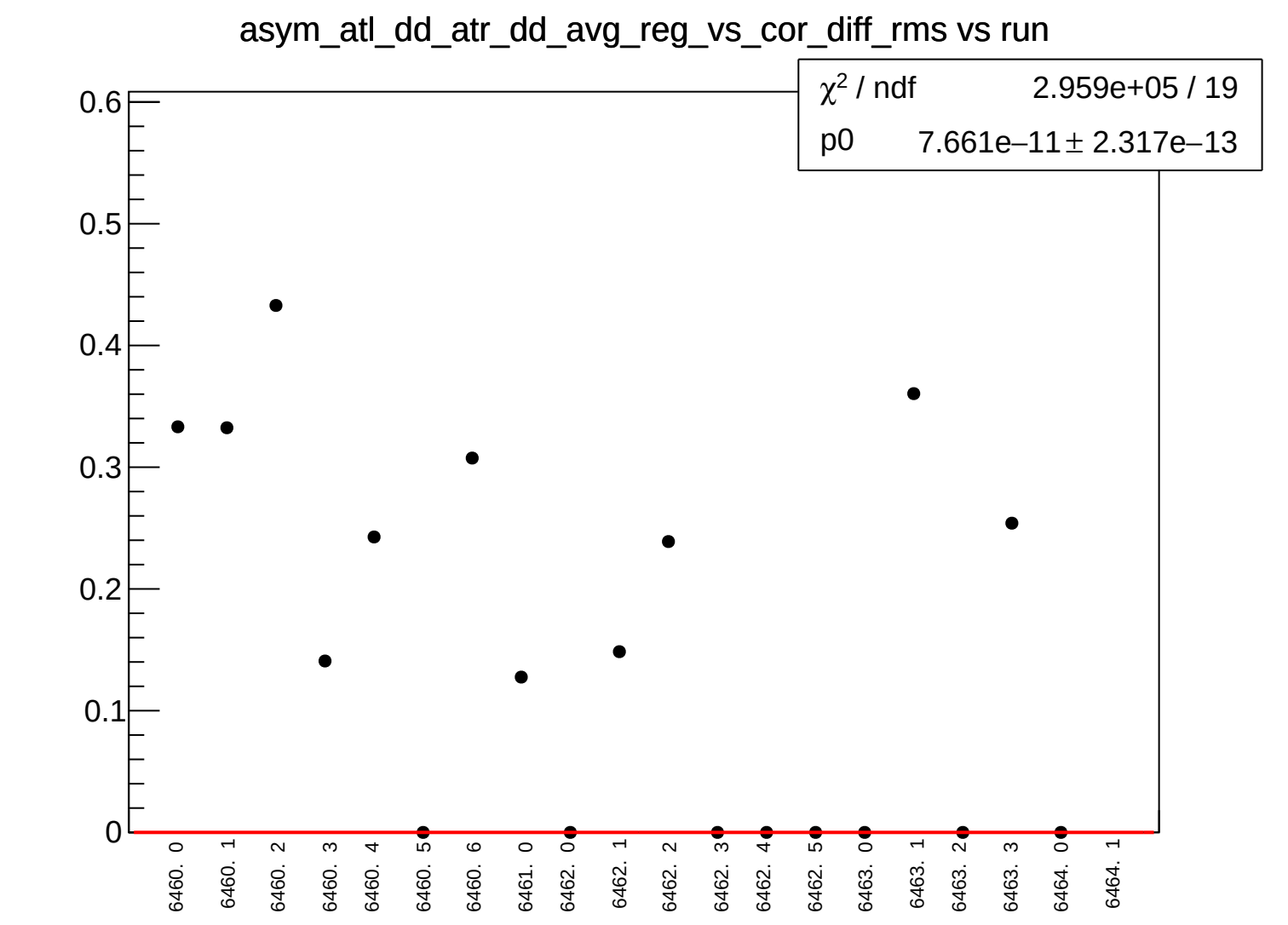

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 328.1 / 19
p0 3685 ± 5.791
3900
3800
3700
3600
3500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

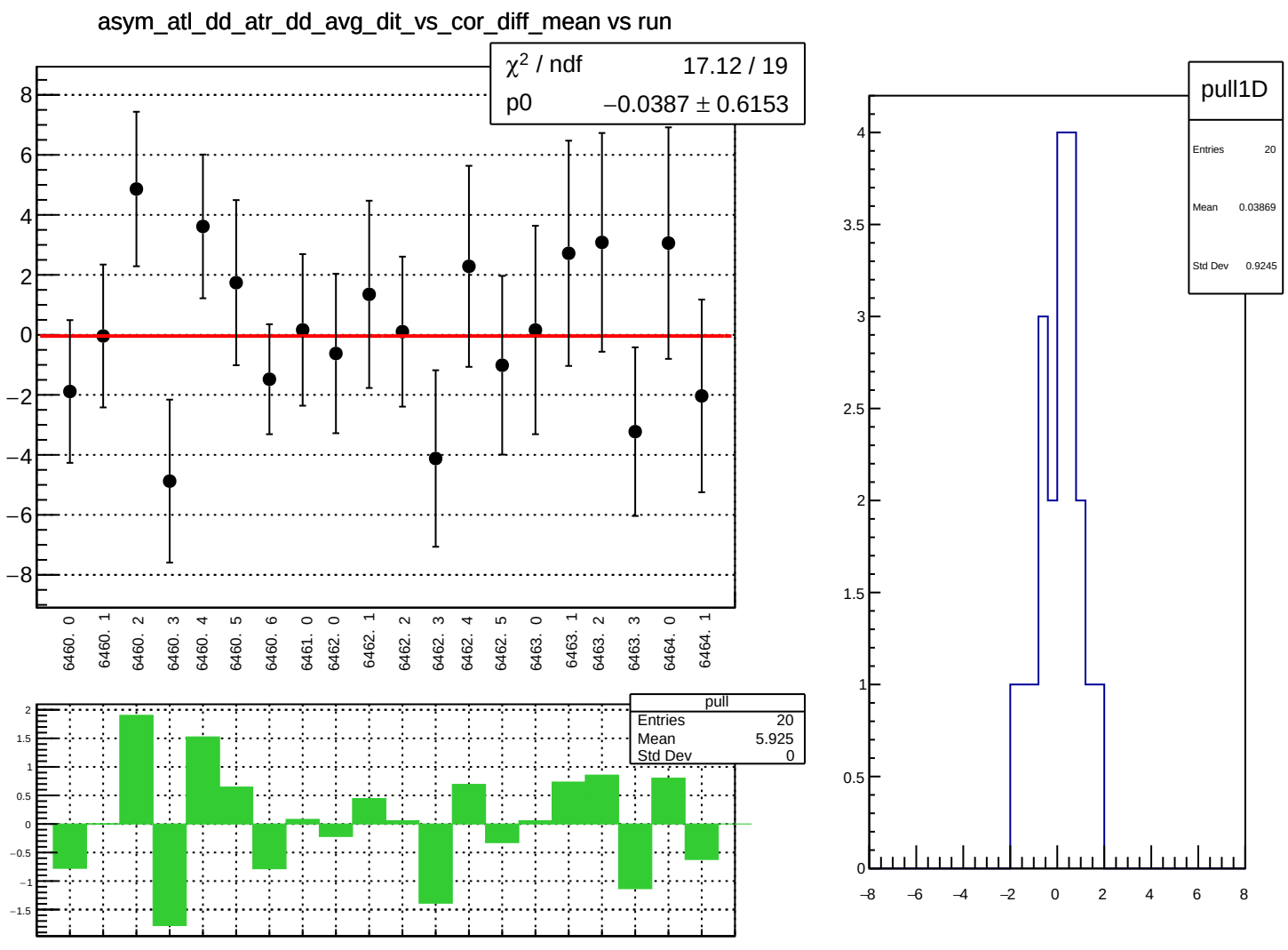

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 10.06 / 19
p0 1311 ± 8458
80
60
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 17.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

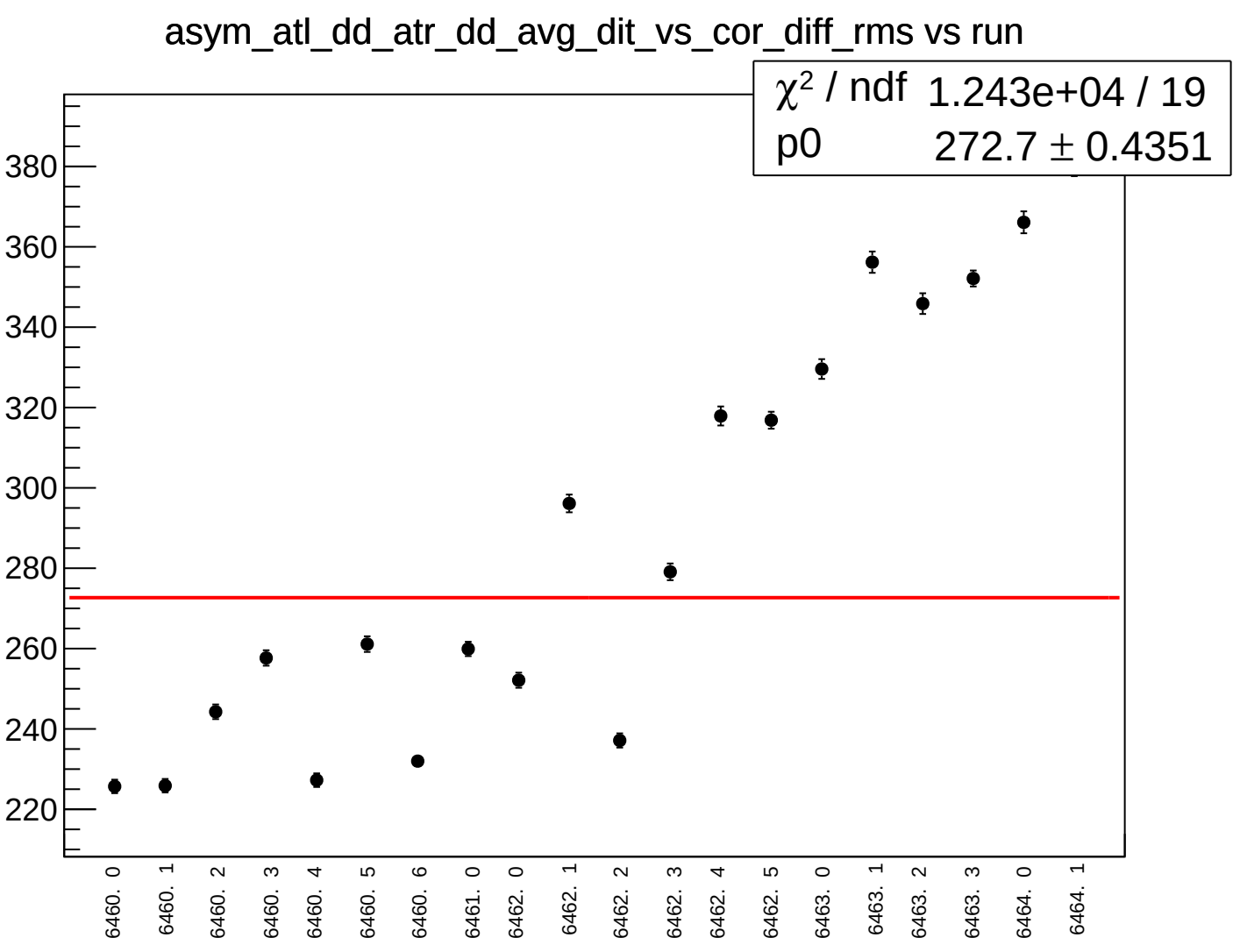

pull1D
Entries 20
Mean −0.02901
Std Dev 0.7087
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

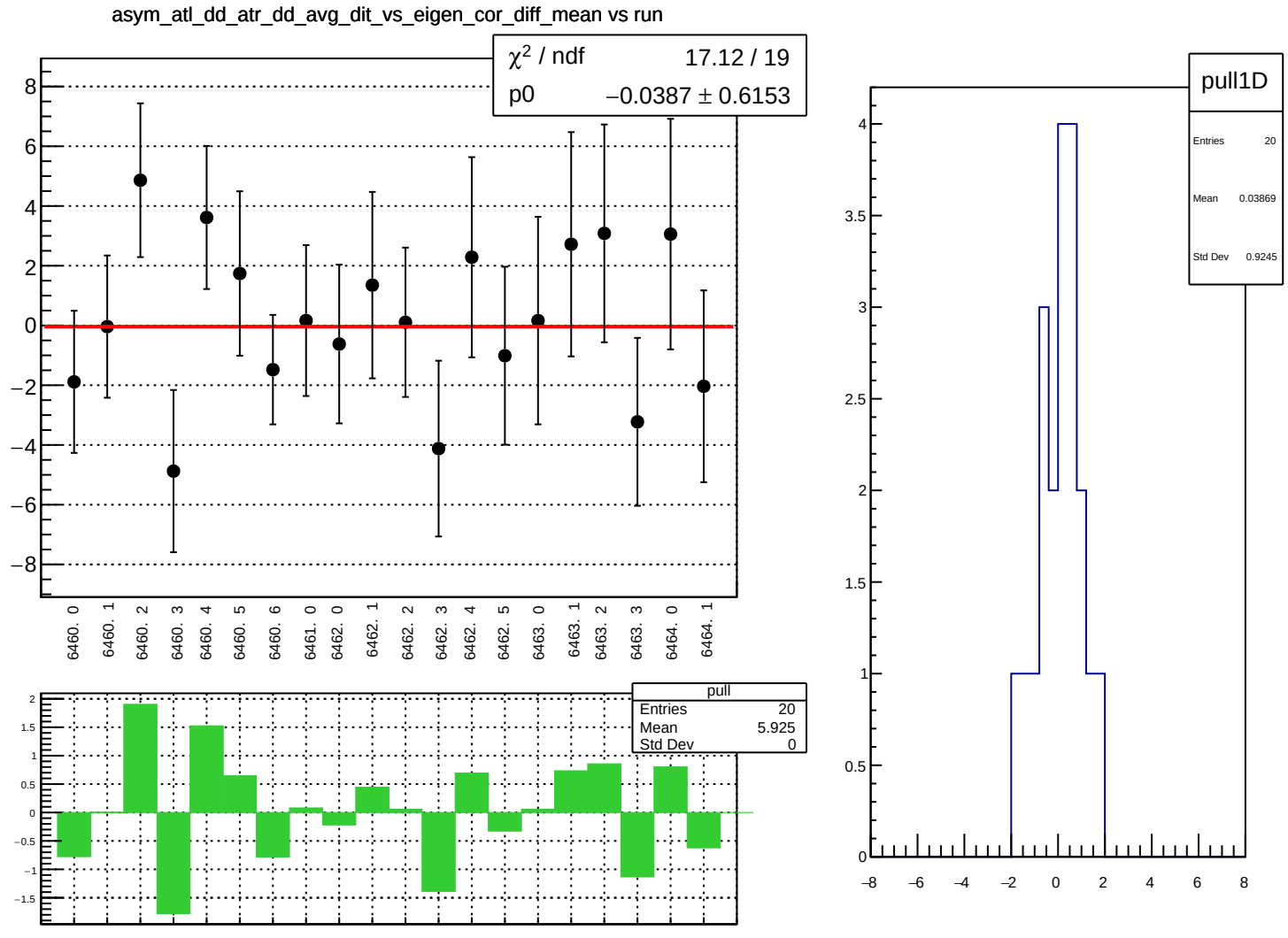

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 296.3 / 19
p0 3806 ± 5.98
4000
3900
3800
3700
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

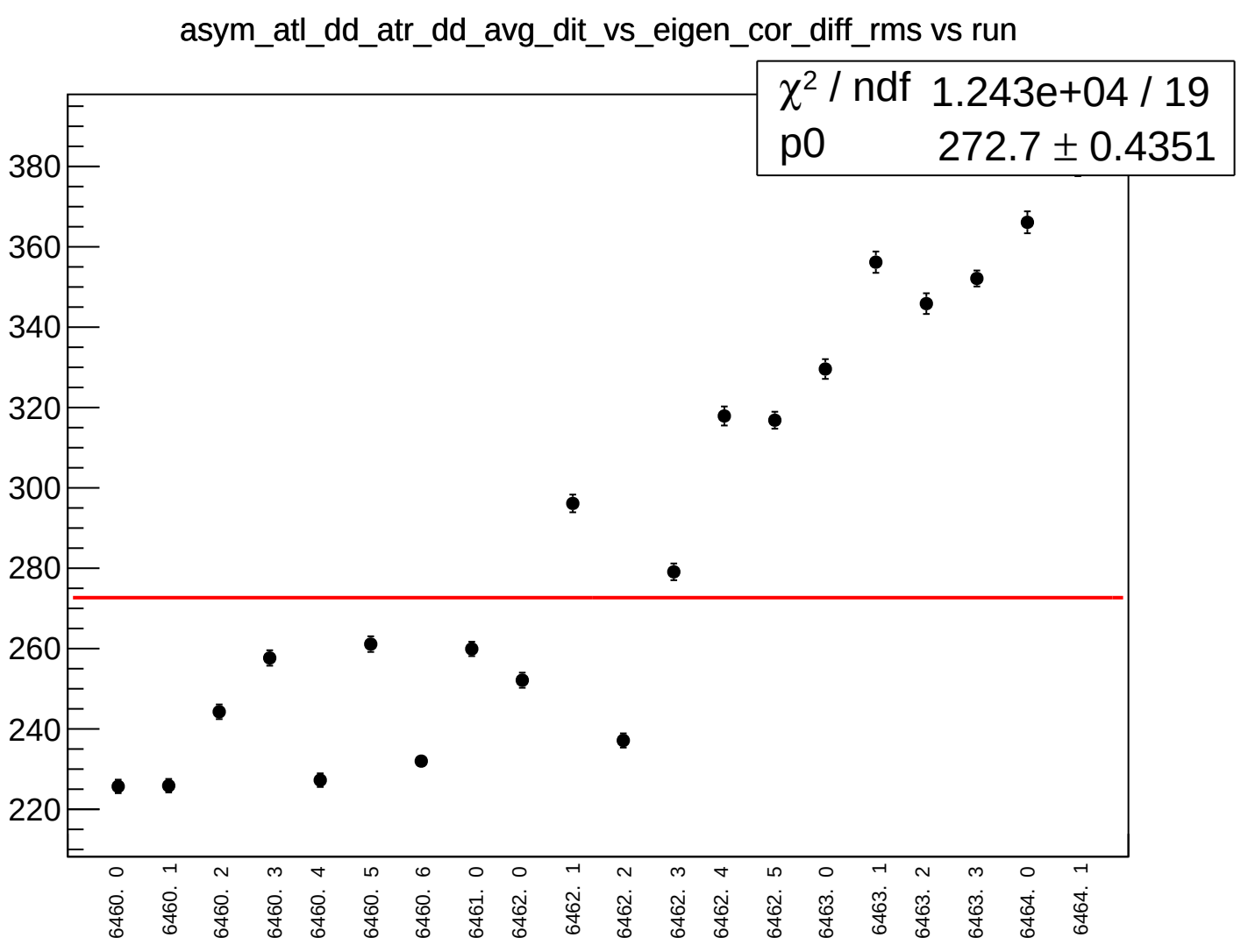

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 18.92 / 19
p0 −2.19e−14 ± 3.276e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.44
Std Dev 9.274
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.1453
Std Dev 0.9617
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

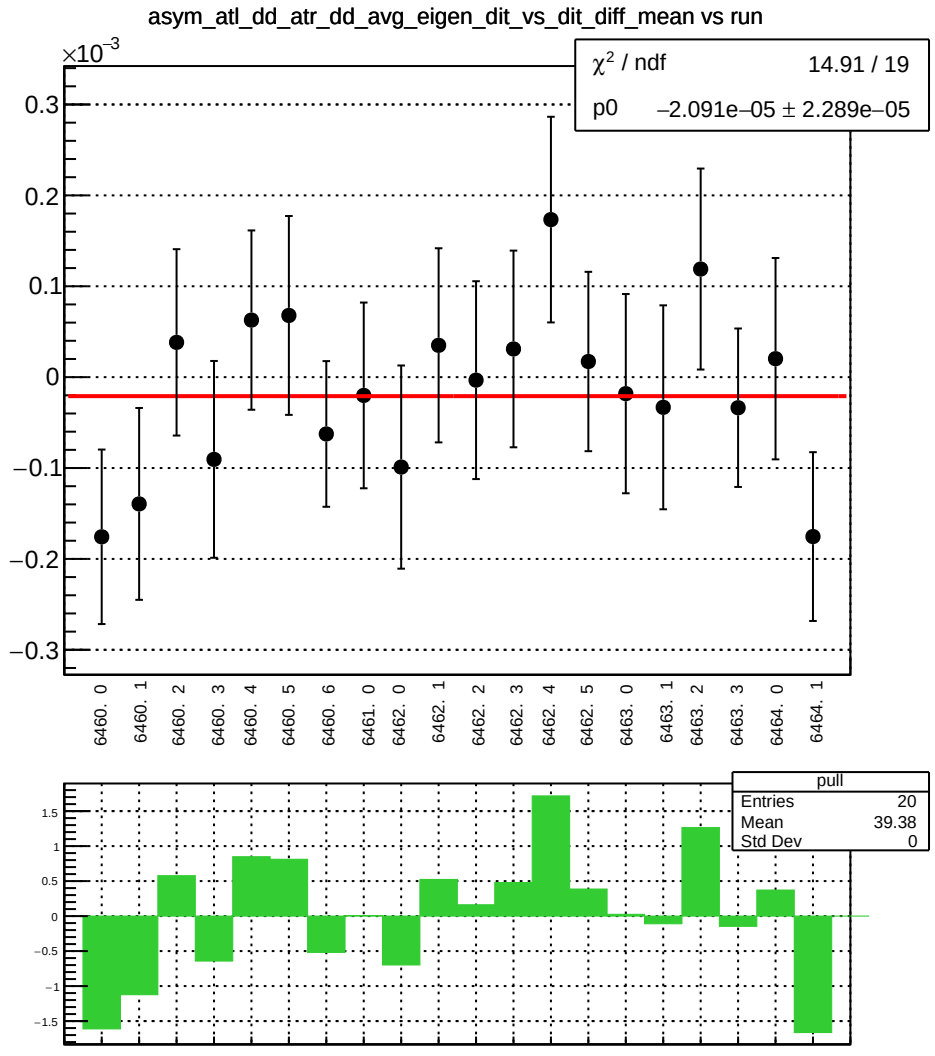

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.959e+05 / 19
p0 7.661e−11 ± 2.317e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

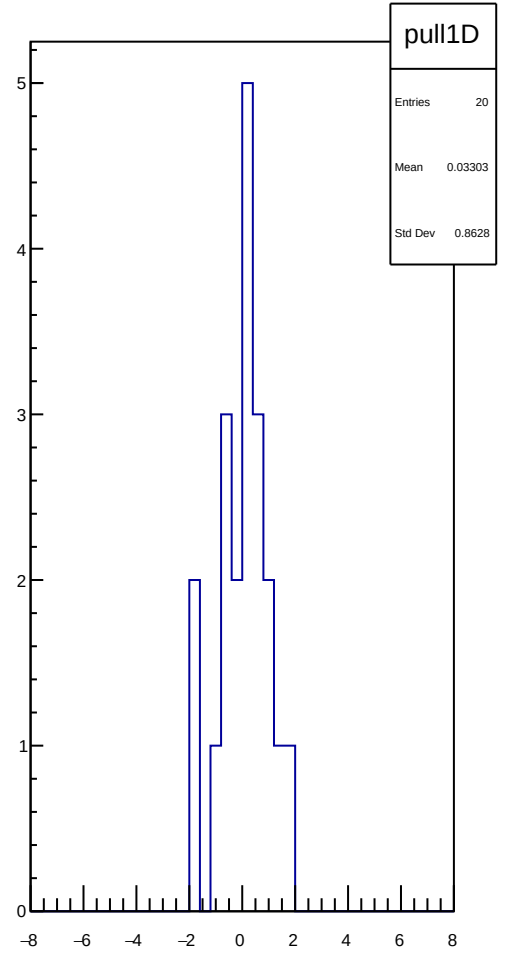

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.0387 ± 0.6153
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.925
Std Dev 0
pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245

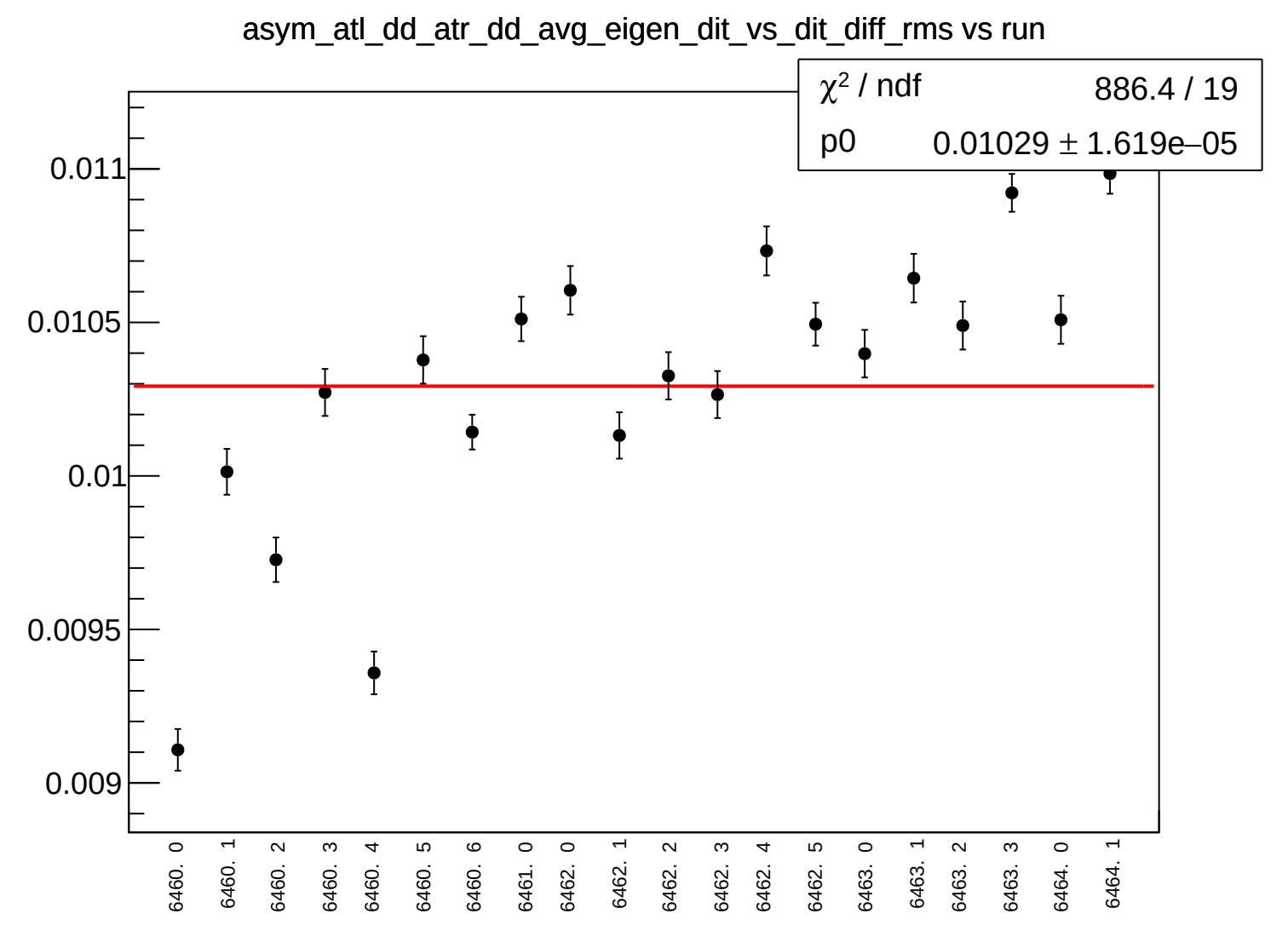

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

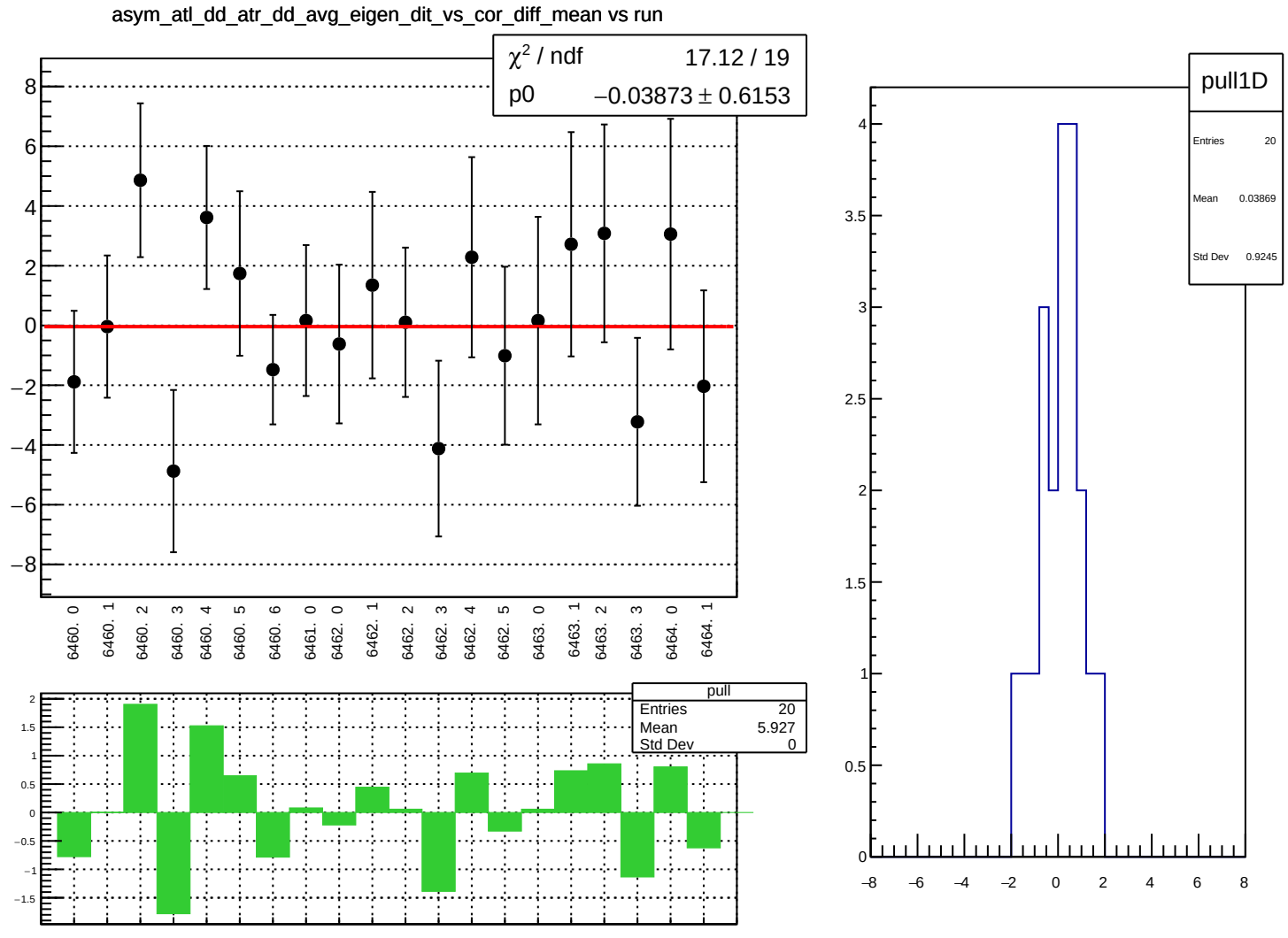

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.0387 ± 0.6153
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.925
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

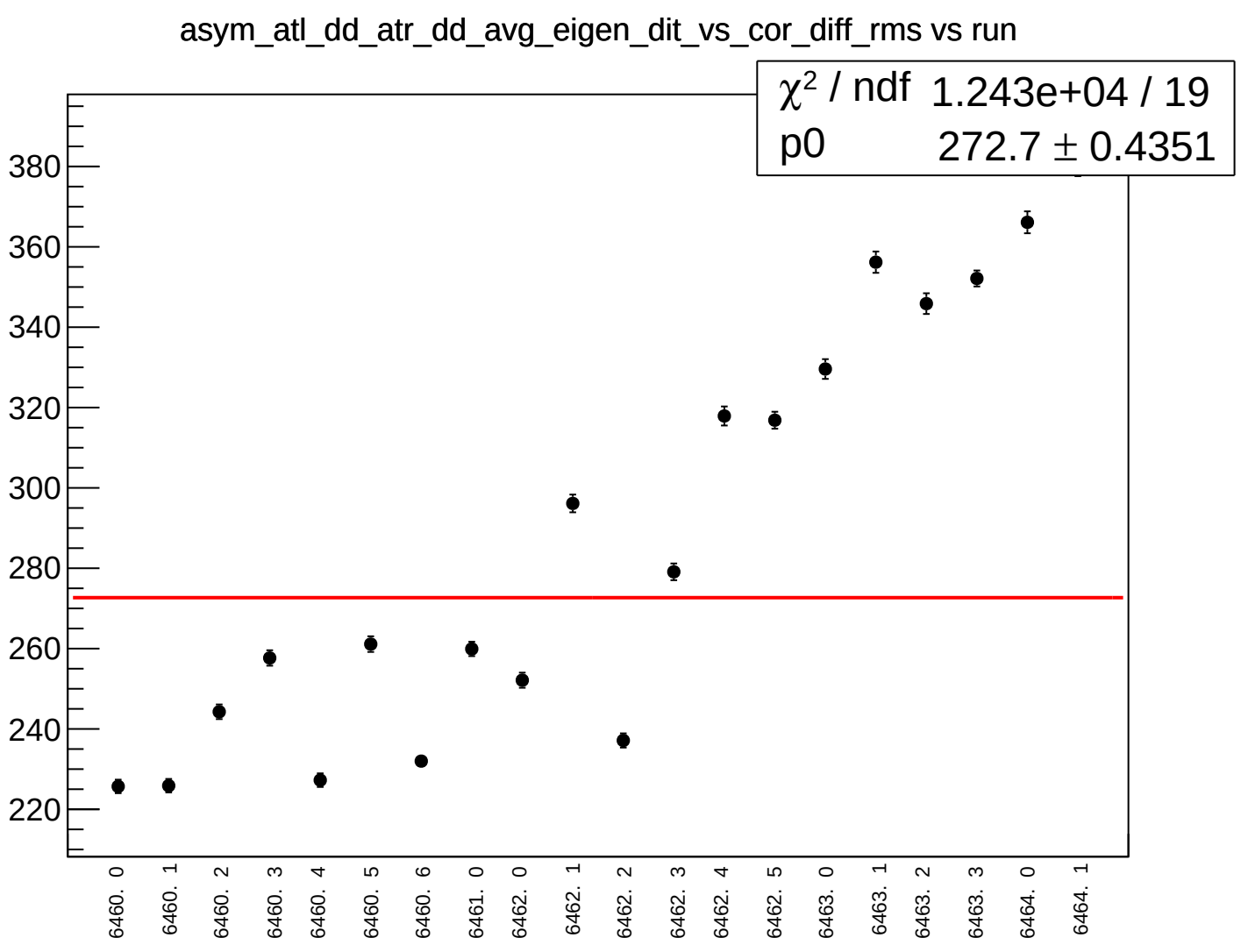

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

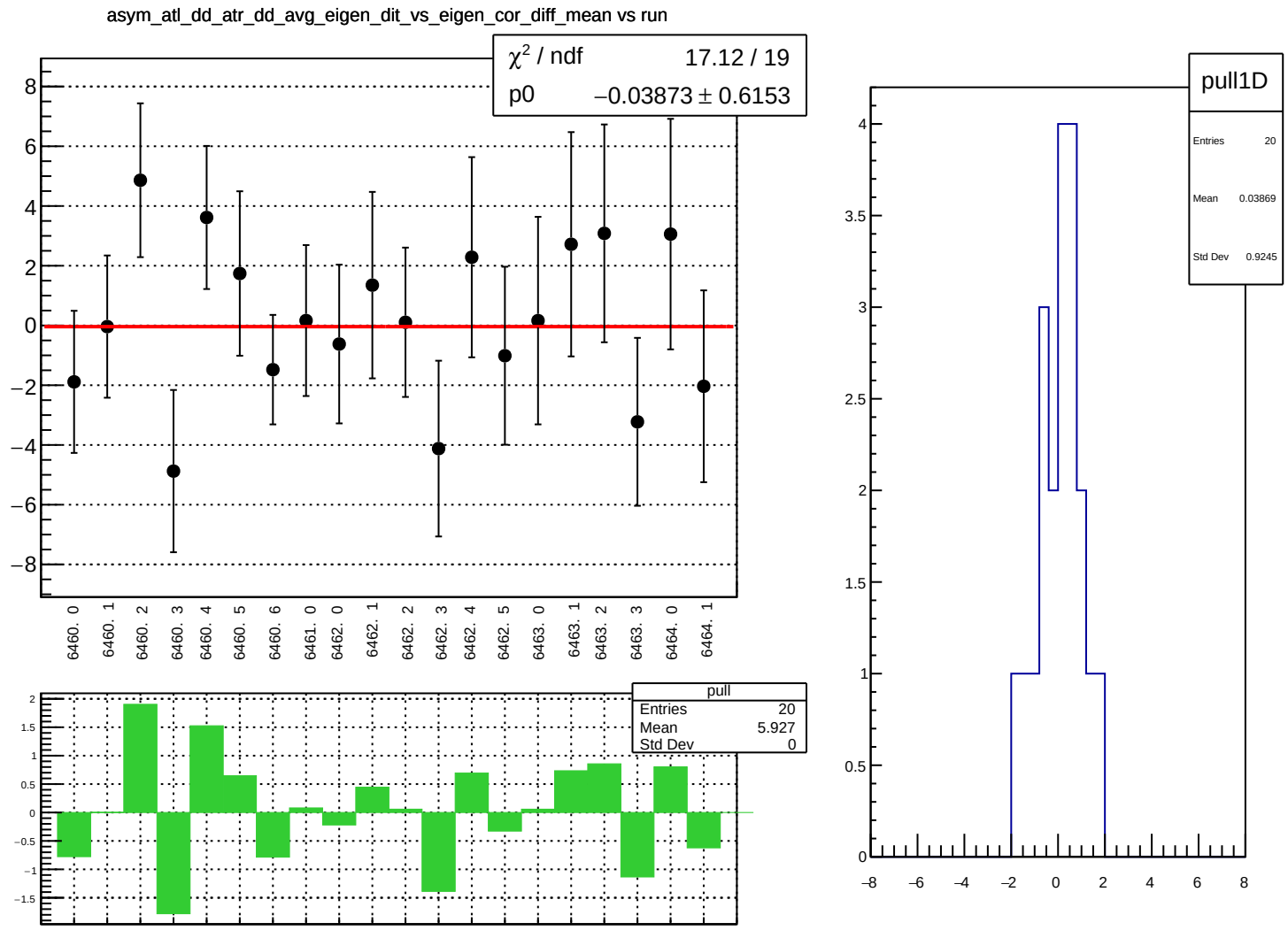

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.91 / 19
p0 −2.091e−05 ± 2.289e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

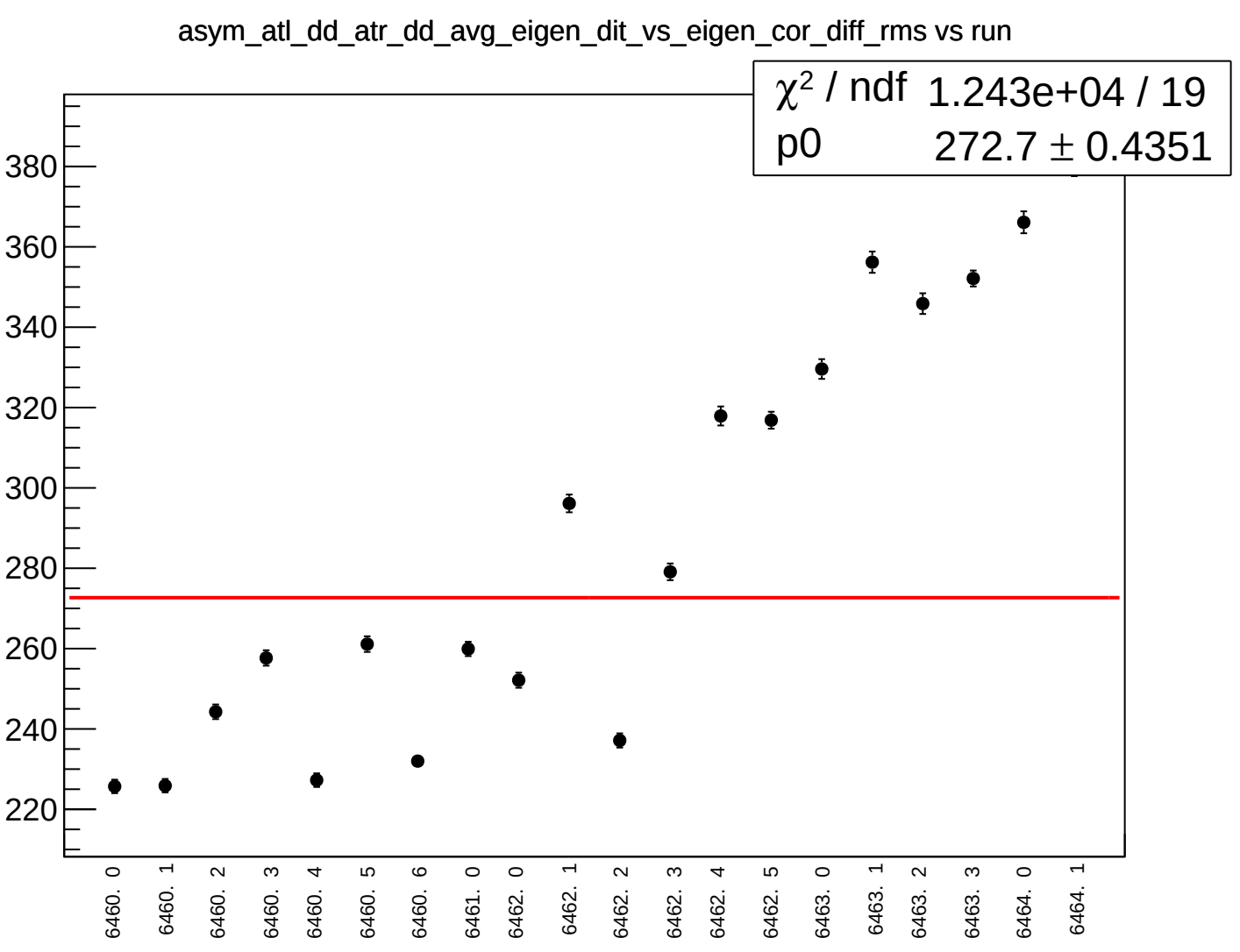

pull1D
Entries 20
Mean 0.03303
Std Dev 0.8628
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

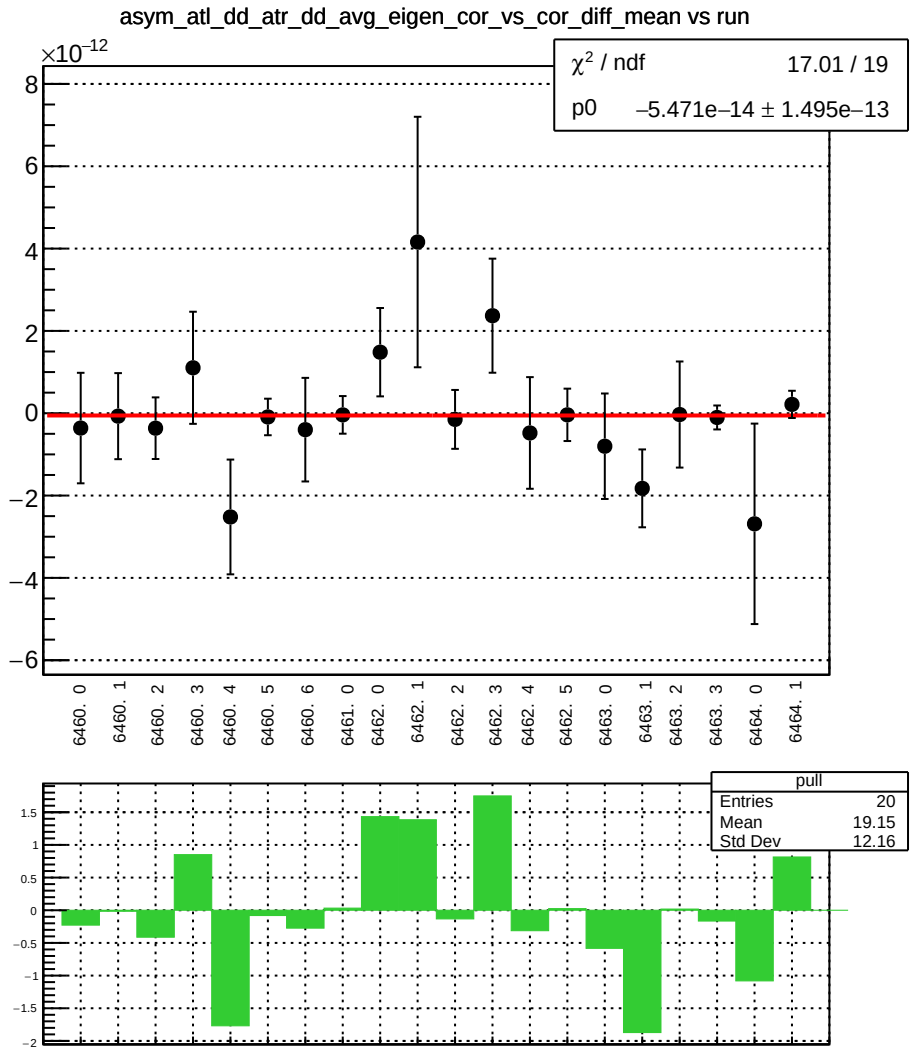

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 886.4 / 19
p0 0.01029 ± 1.619e−05
0.011
0.0105
0.01
0.0095
0.009
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

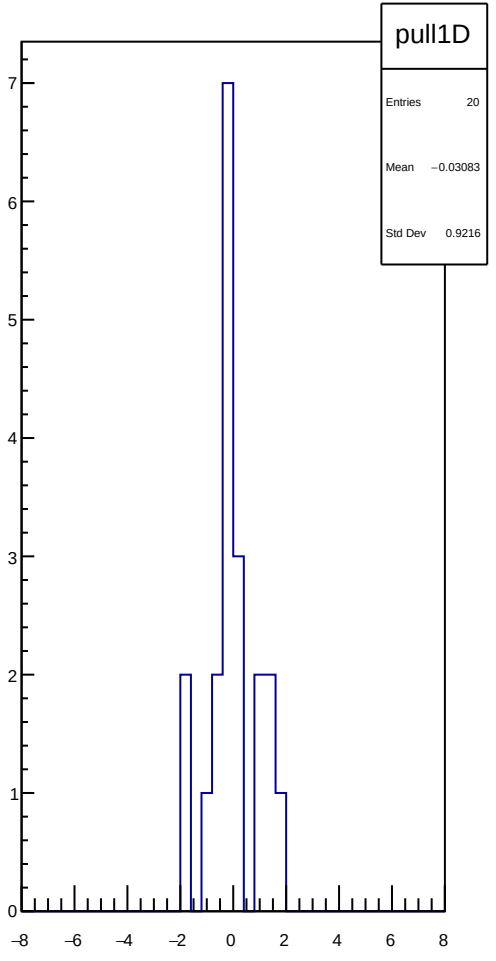

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.03873 ± 0.6153
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.927
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

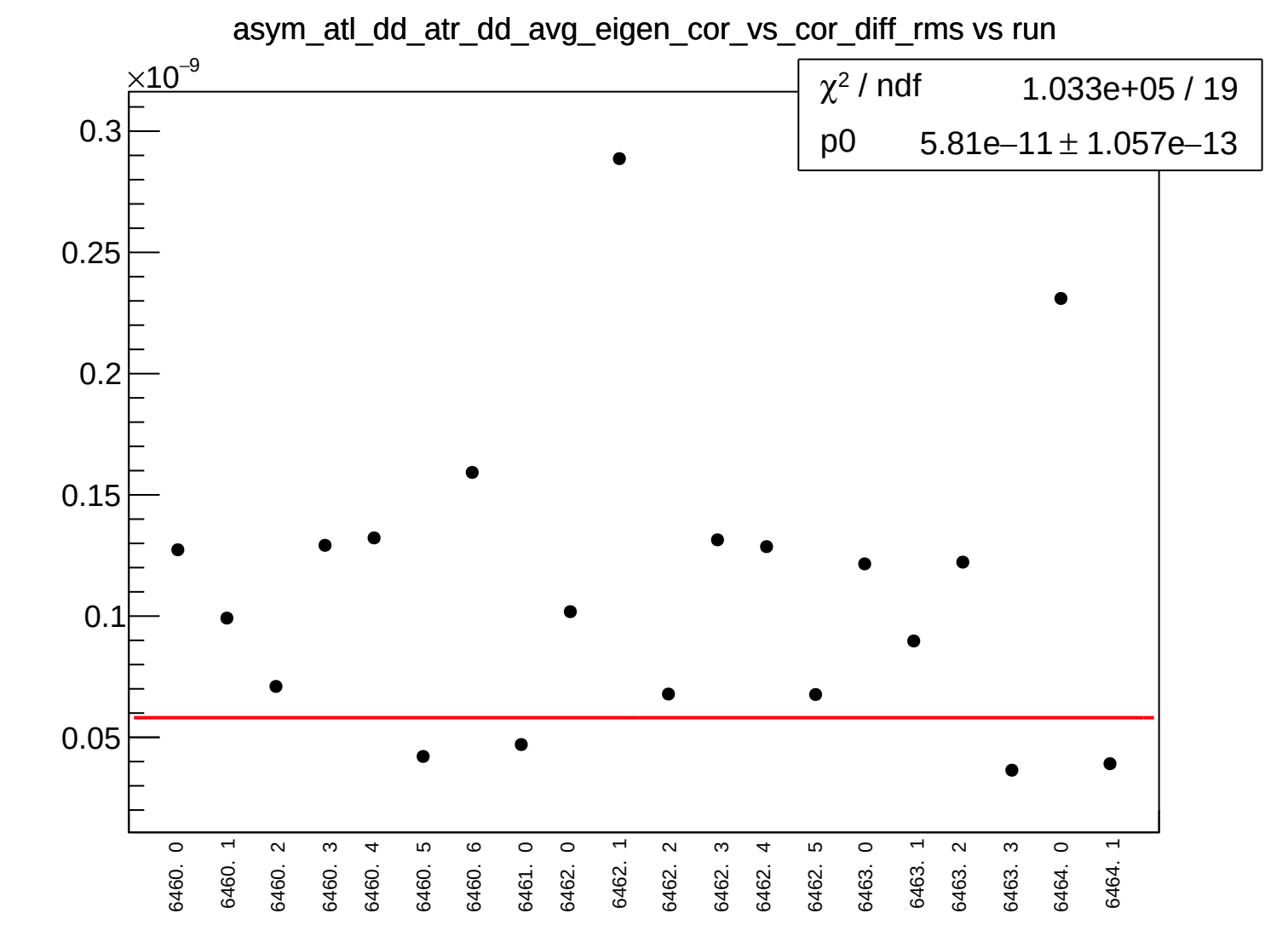

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

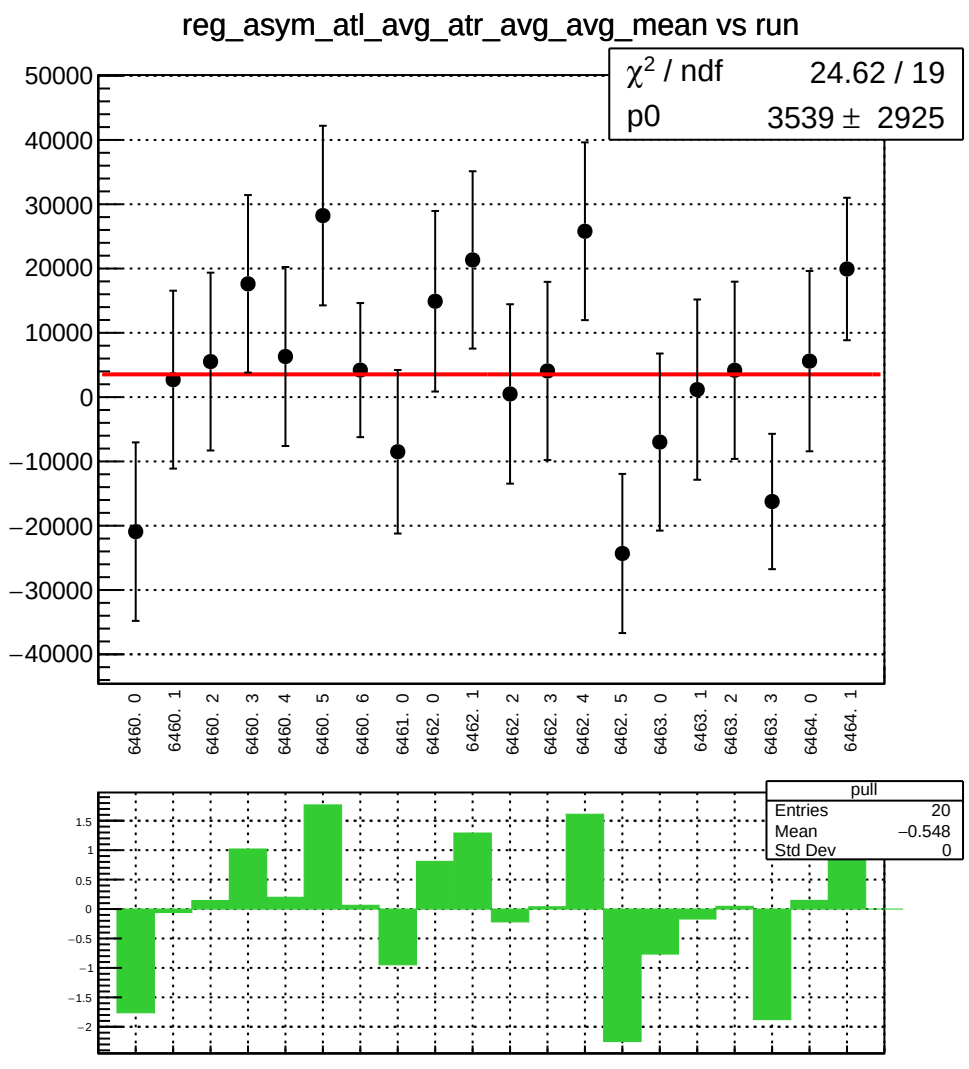

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.03873 ± 0.6153
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.927
Std Dev 0
pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245

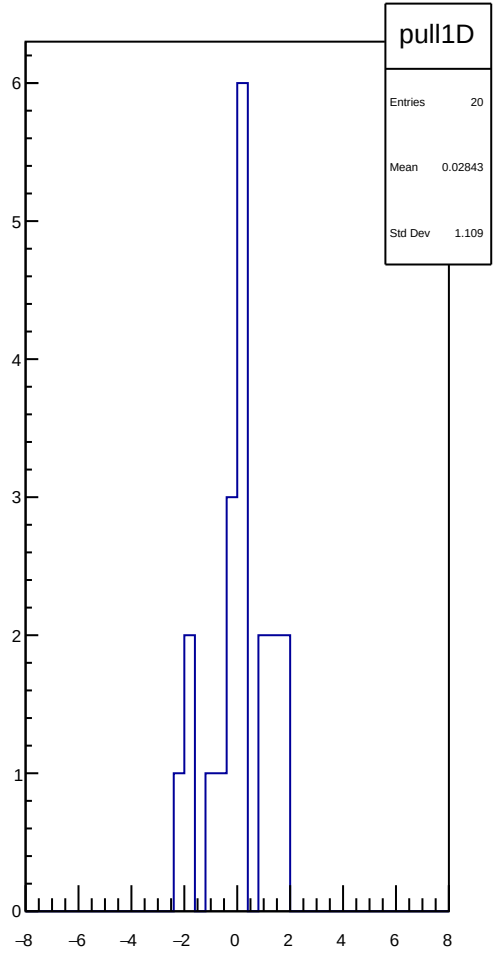

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

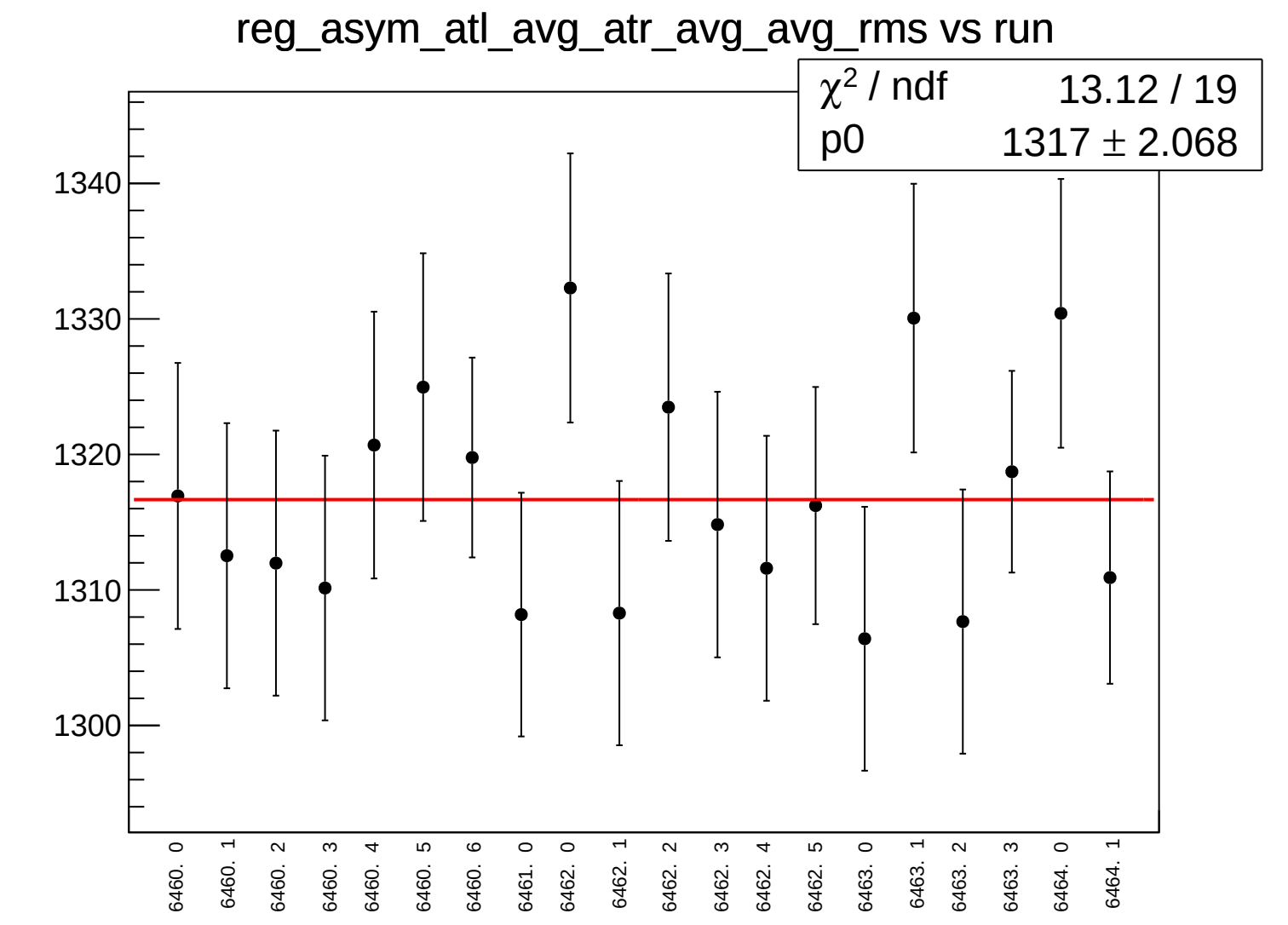

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 17.01 / 19
p0 −5.471e−14 ± 1.495e−13
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.15
Std Dev 12.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

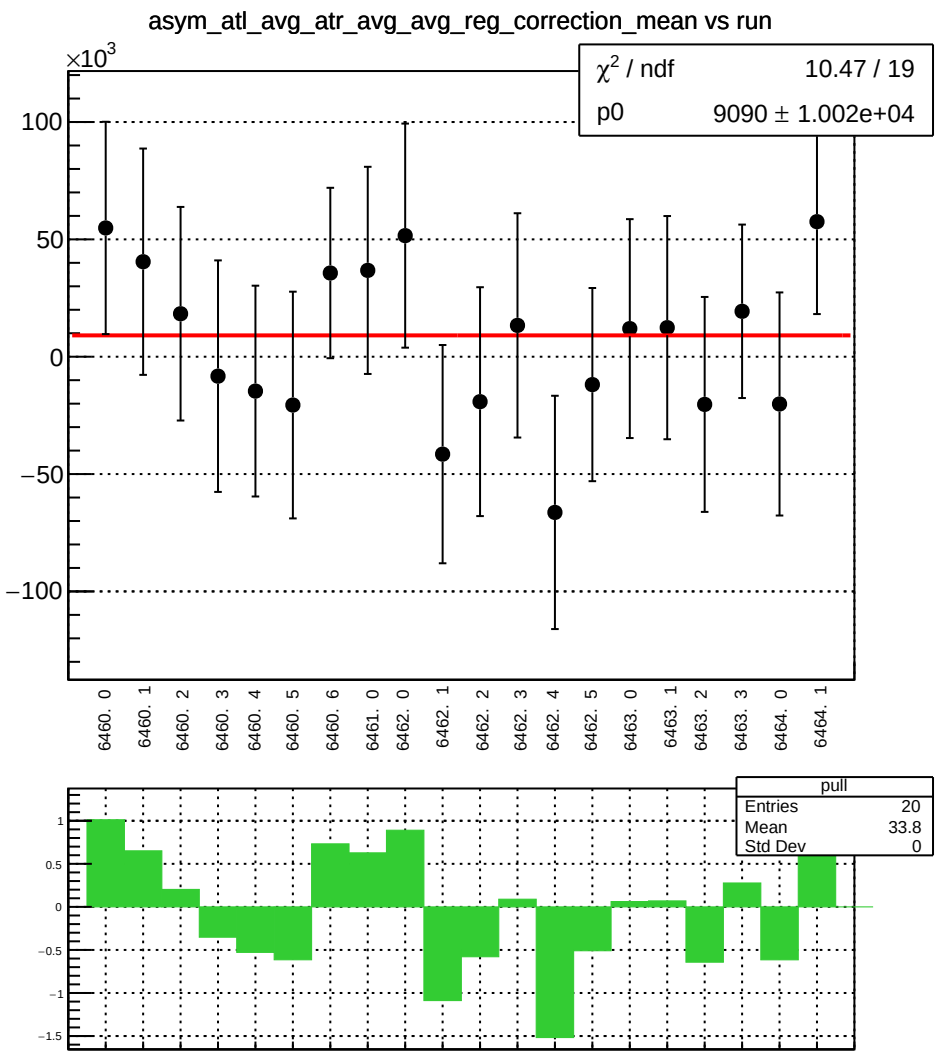

pull1D
Entries 20
Mean −0.03083
Std Dev 0.9216
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

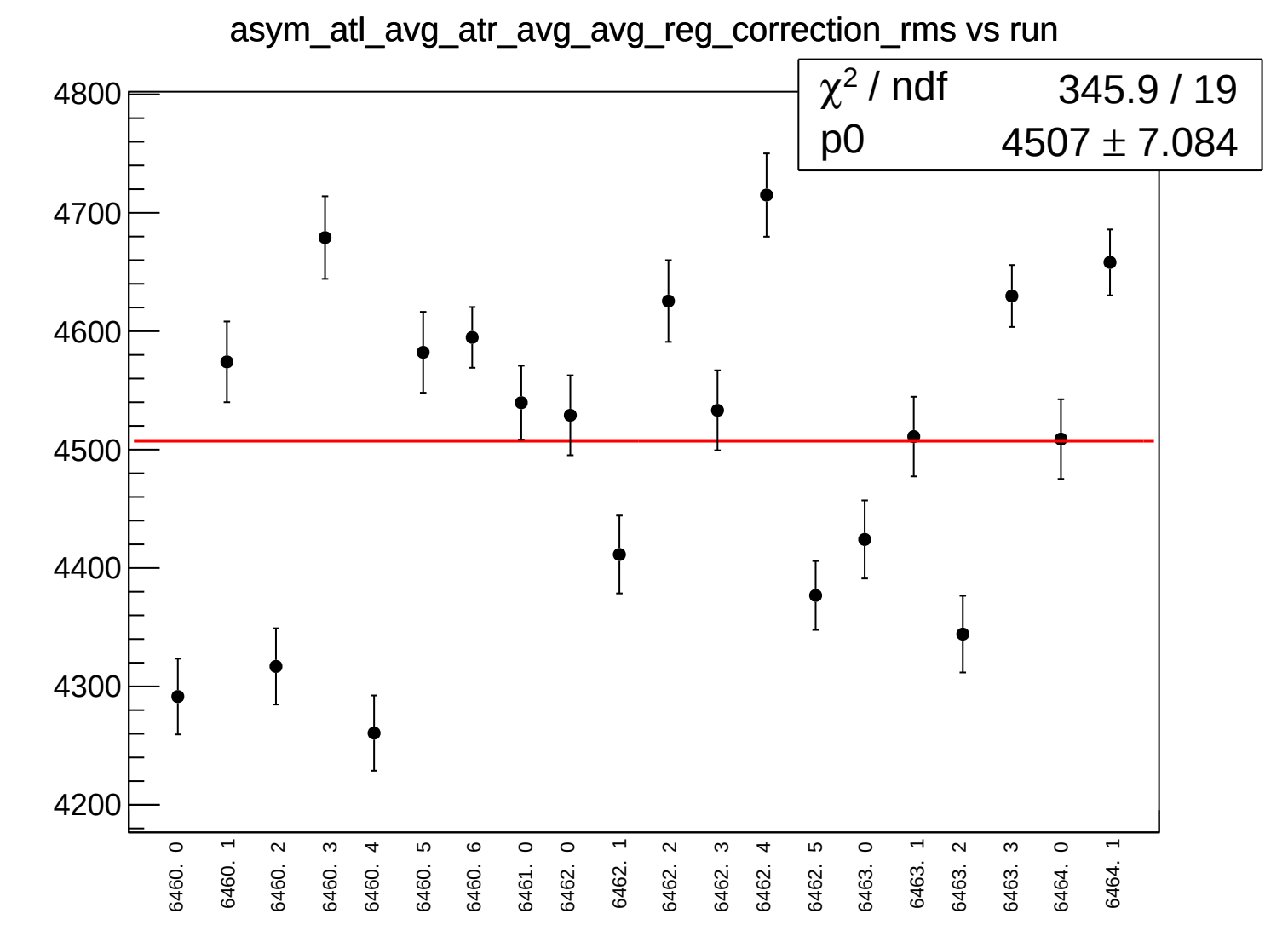

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.033e+05 / 19
p0 5.81e−11 ± 1.057e−13
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

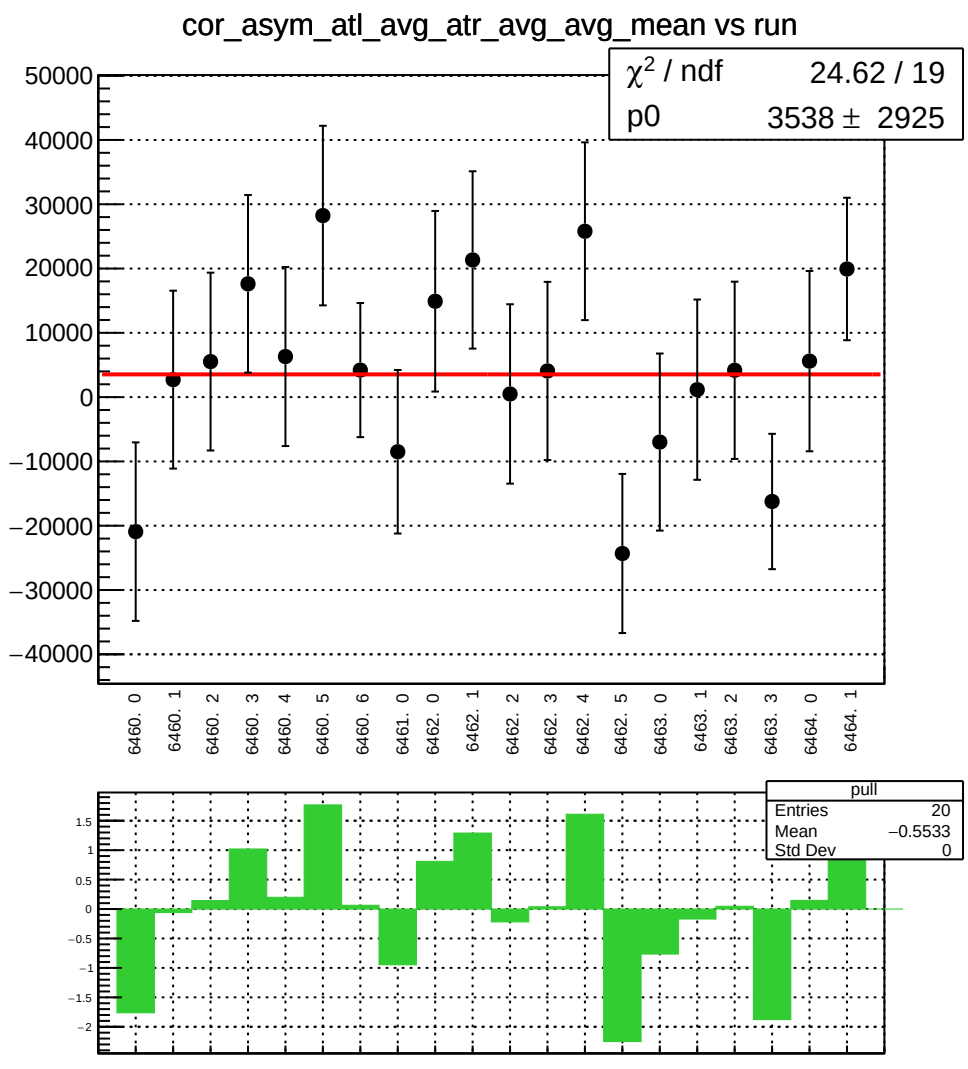

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 24.62 / 19
p0 3539 ± 2925
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.548
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

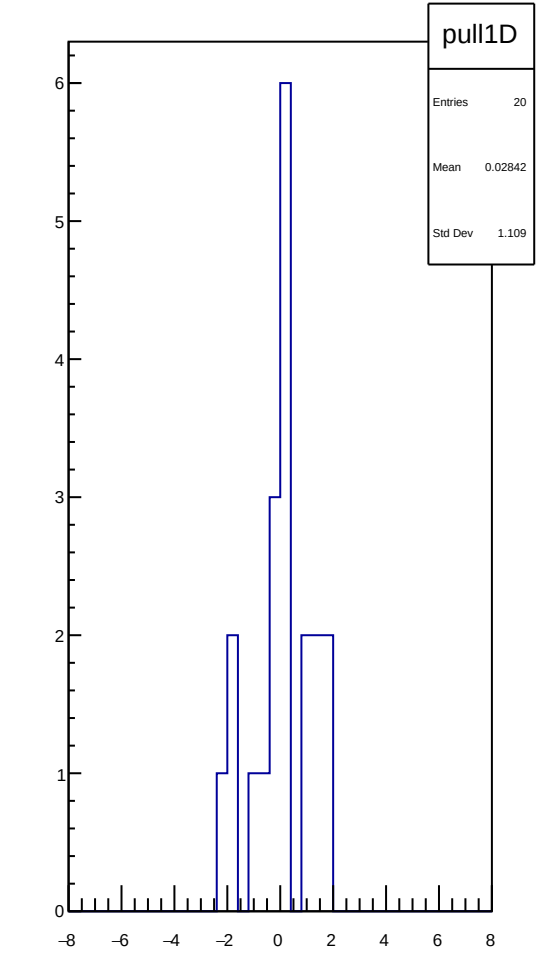

pull1D
Entries 20
Mean 0.02843
Std Dev 1.109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

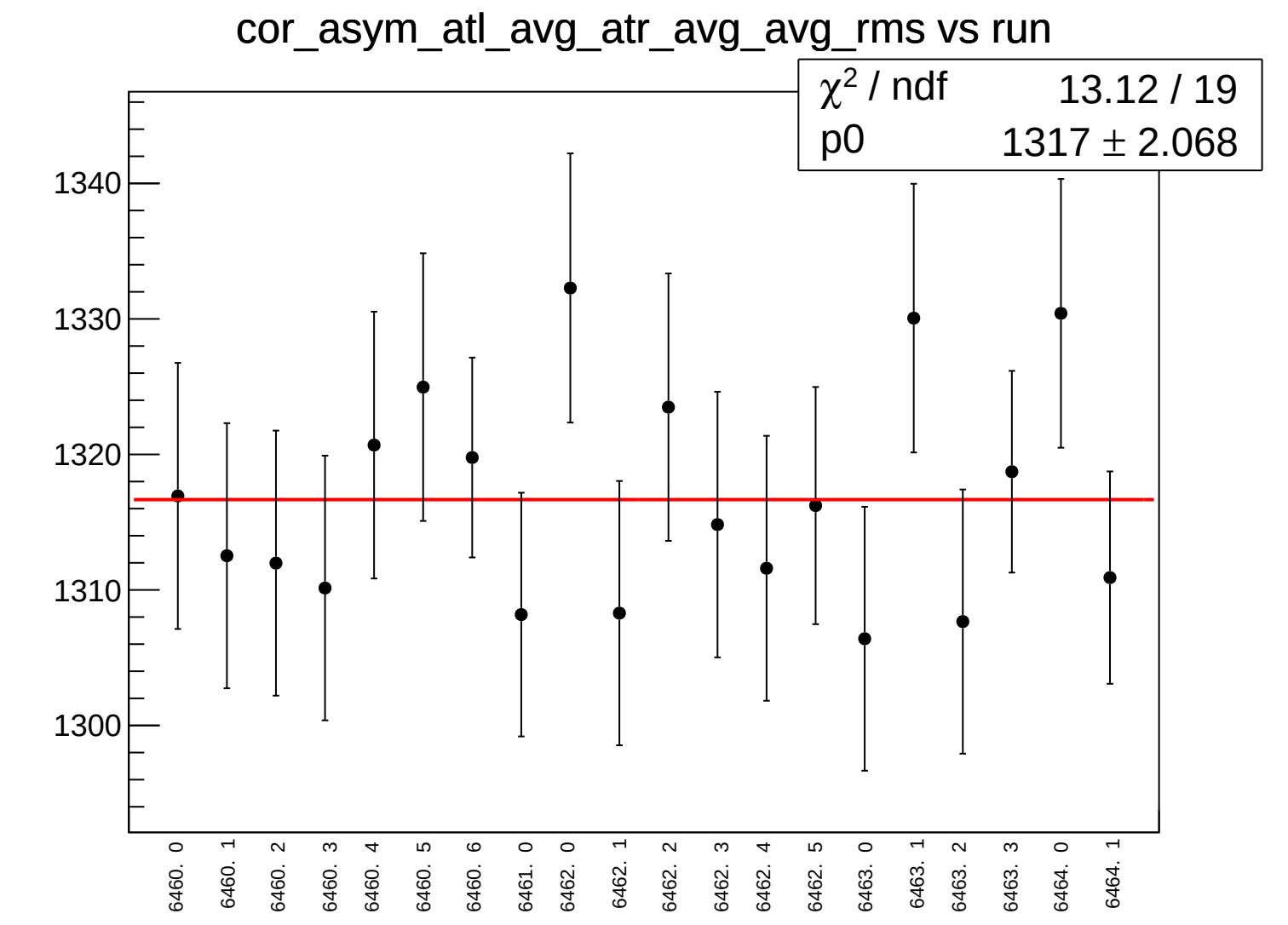

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 13.12 / 19
p0 1317 ± 2.068
1340
1330
1320
1310
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

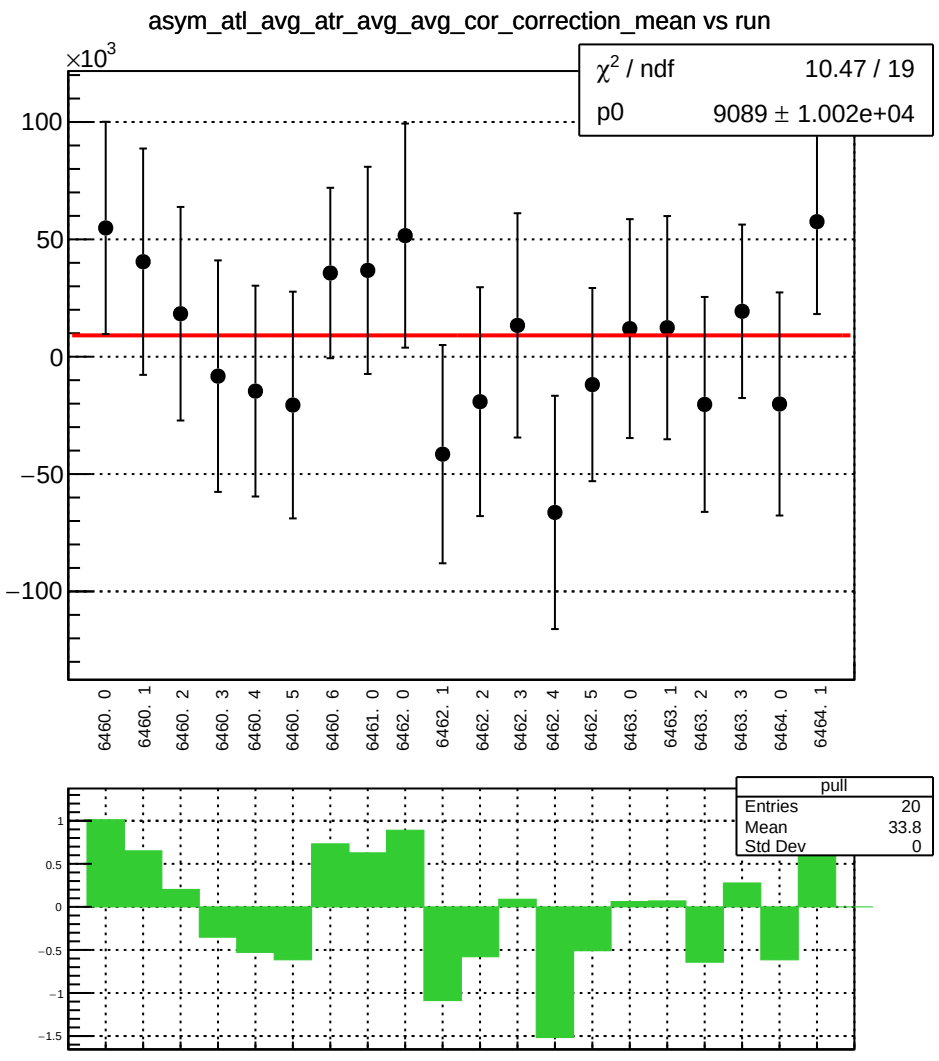

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 10.47 / 19
p0 9090 ± 1.002e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03011
Std Dev 0.723
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

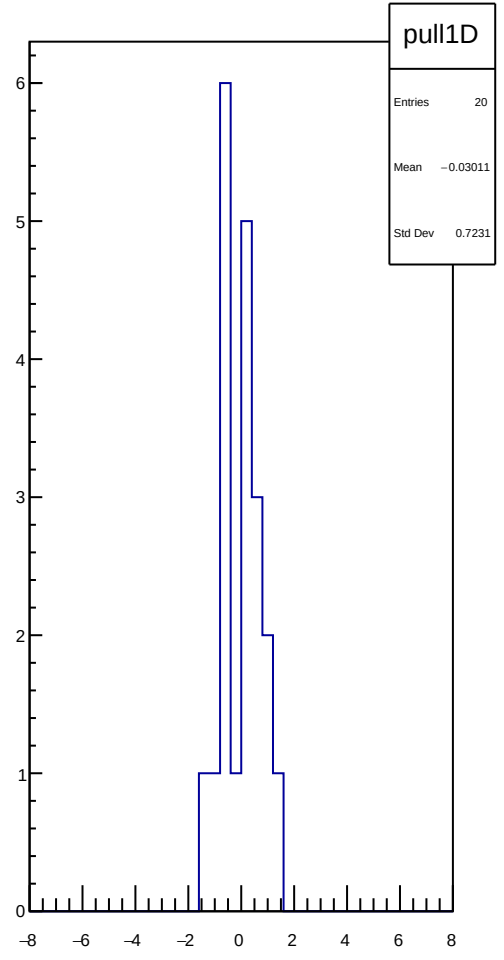

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 345.9 / 19
p0 4507 ± 7.084
4800
4700
4600
4500
4400
4300
4200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

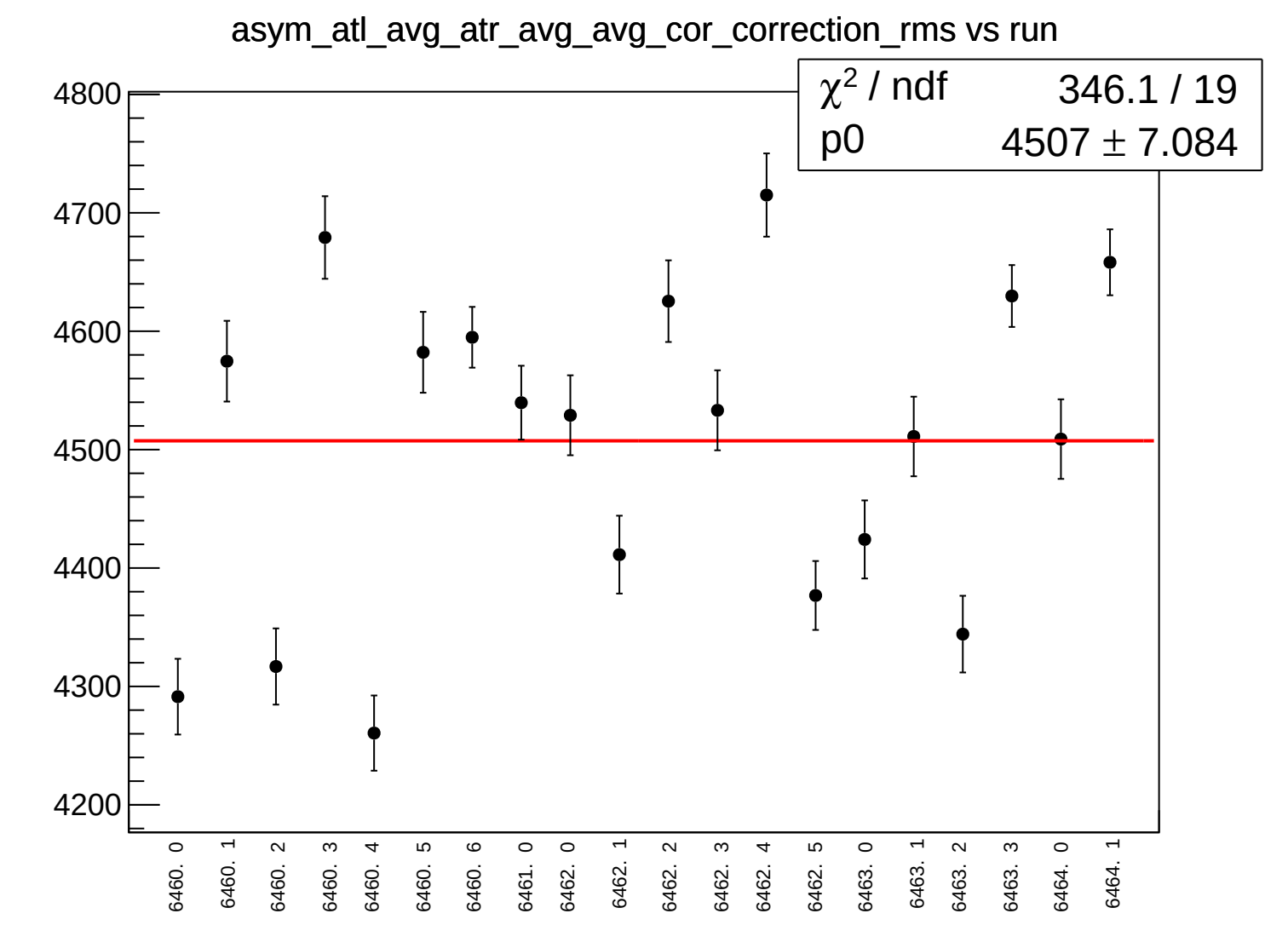

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 24.62 / 19
p0 3538 ± 2925
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.5533
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

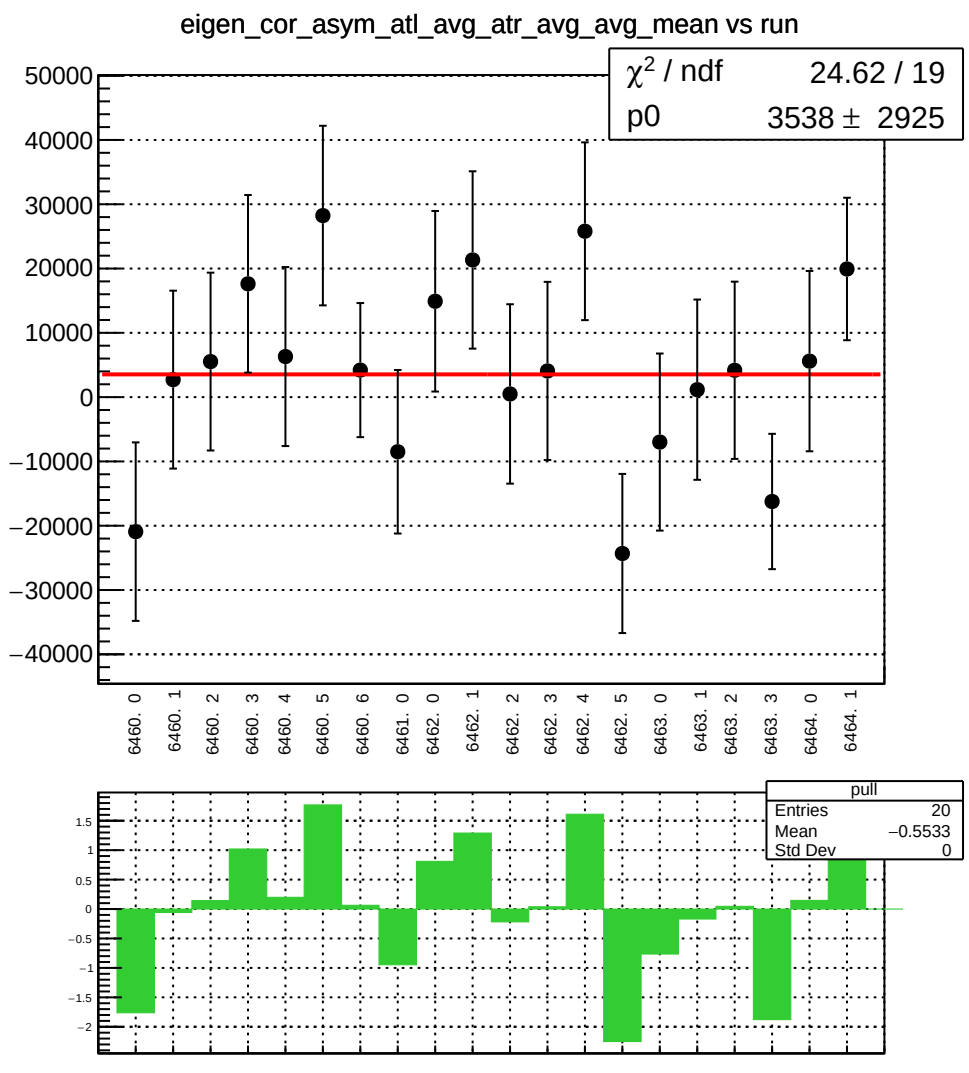

pull1D
Entries 20
Mean 0.02842
Std Dev 1.109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

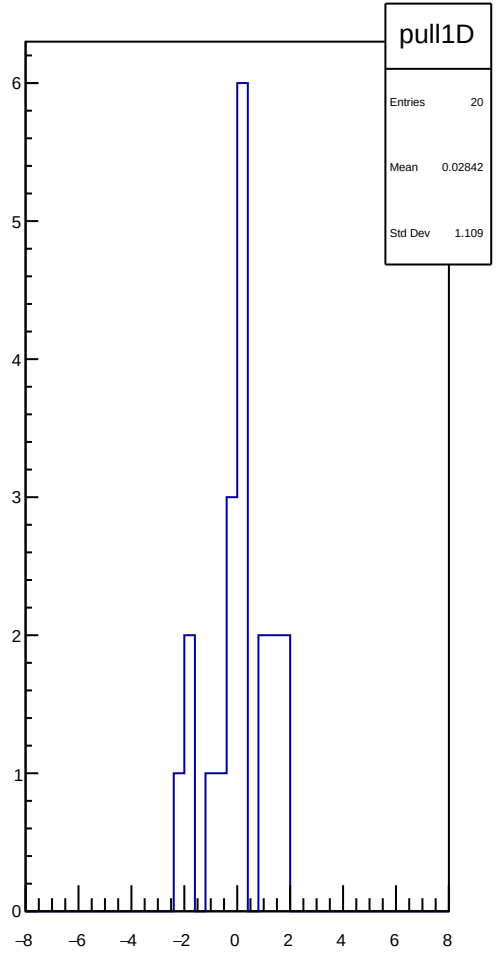

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 13.12 / 19
p0 1317 ± 2.068
1340
1330
1320
1310
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

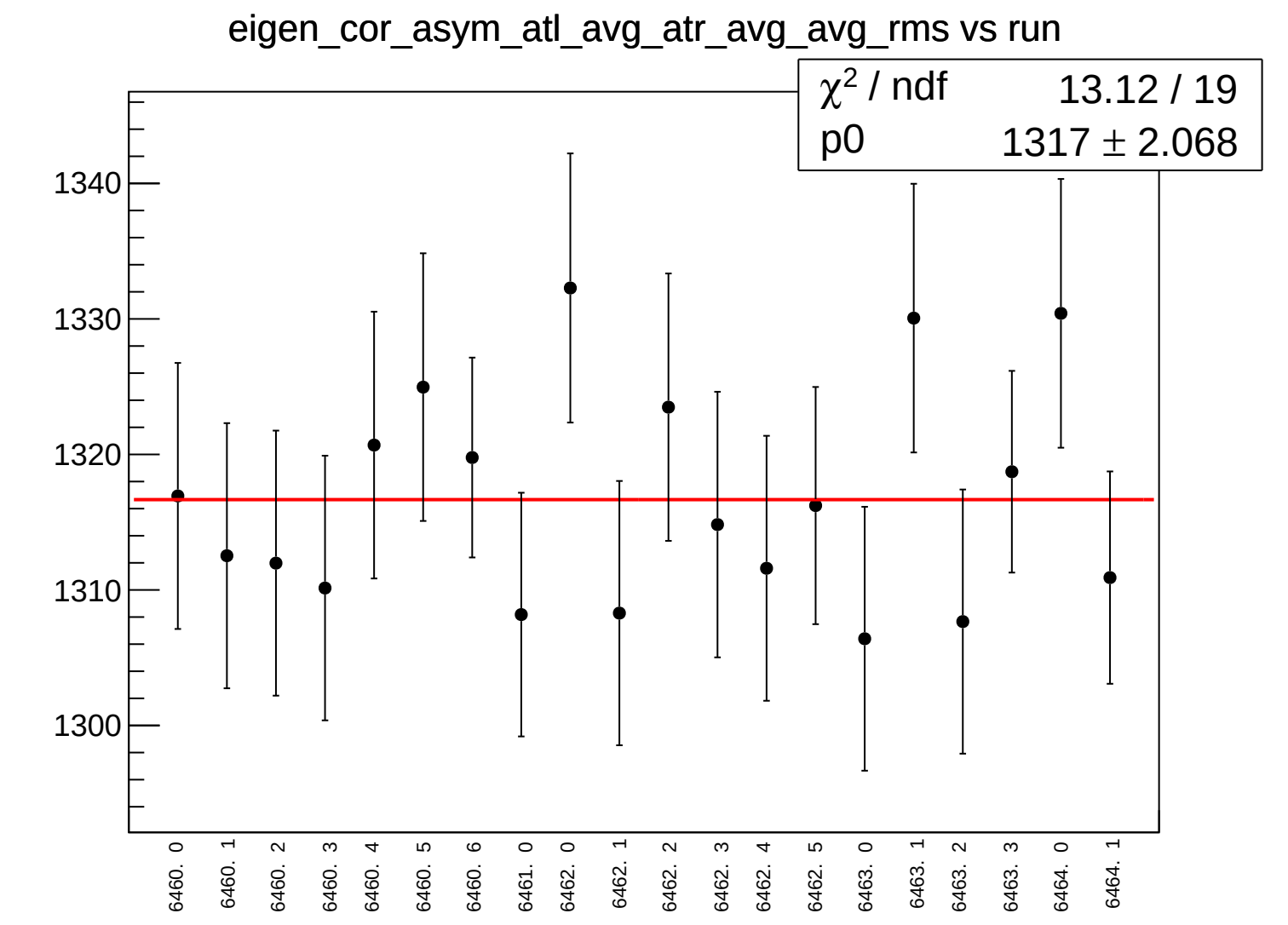

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 10.47 / 19
p0 9089 ± 1.002e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

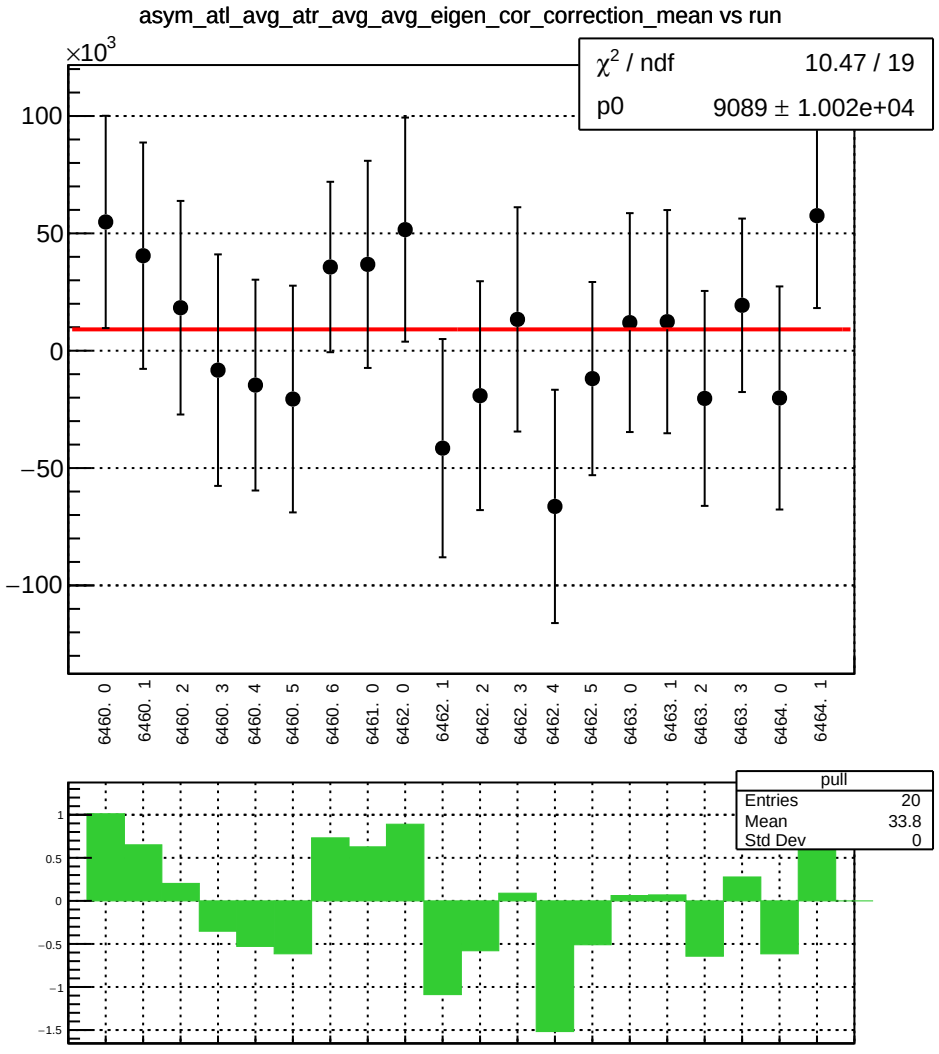

pull1D
Entries 20
Mean −0.03011
Std Dev 0.7231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

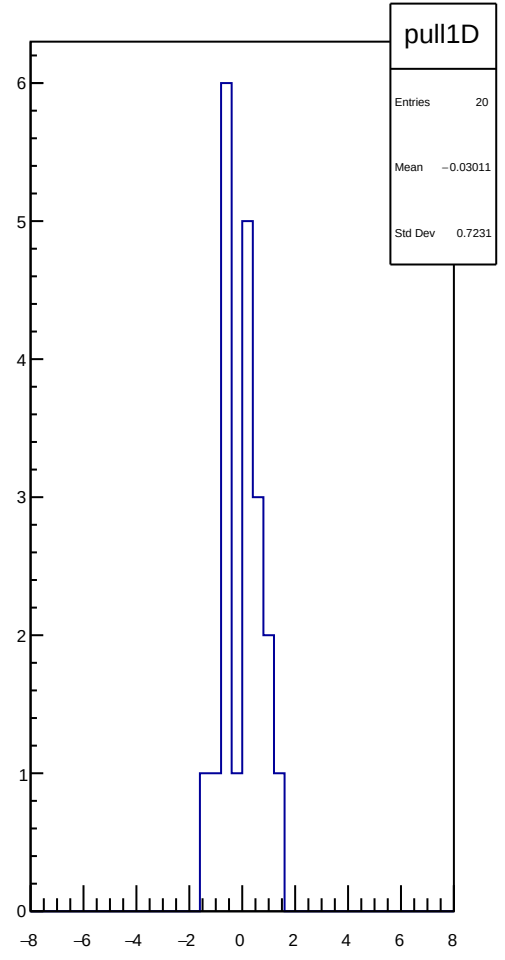

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 346.1 / 19
p0 4507 ± 7.084
4800
4700
4600
4500
4400
4300
4200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

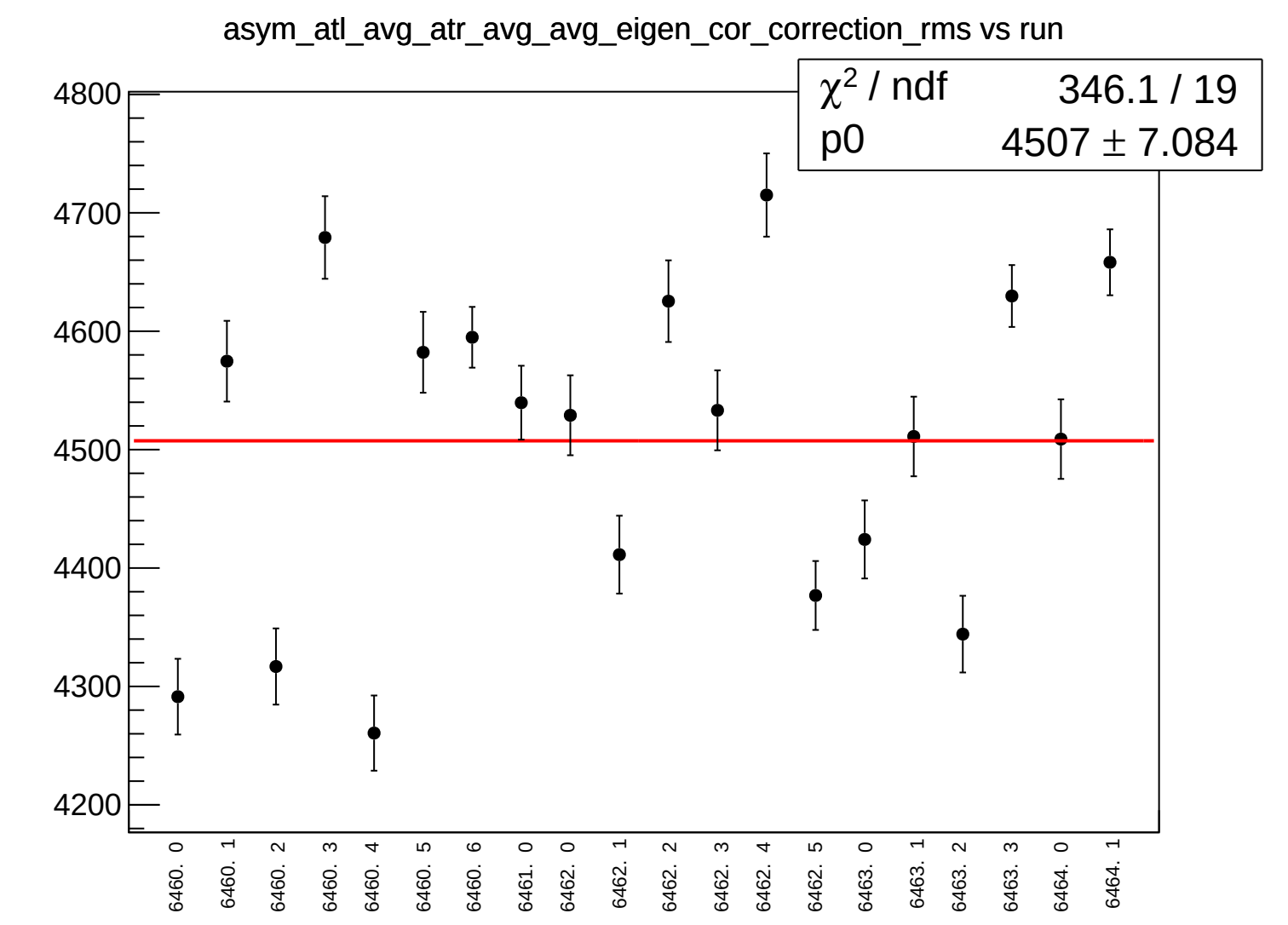

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 24.62 / 19
p0 3538 ± 2925
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.5533
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

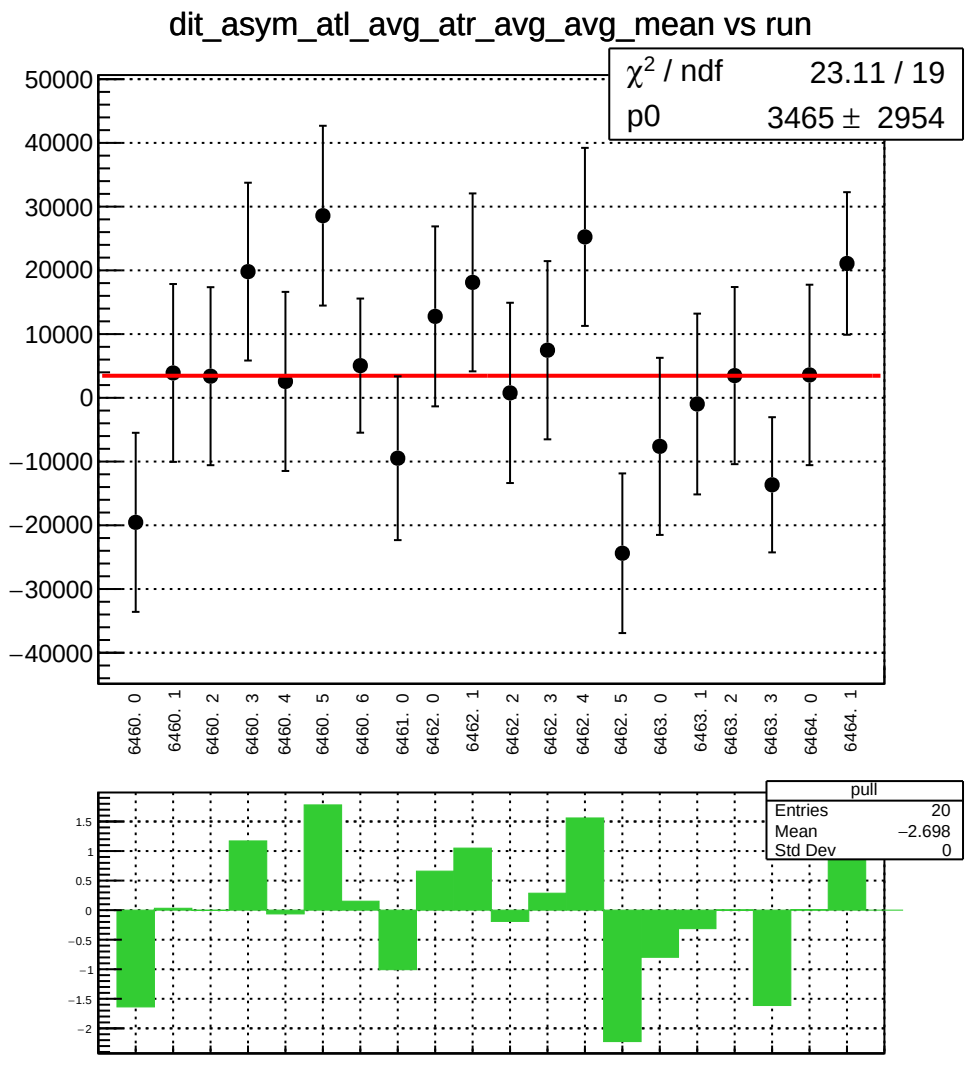

pull1D
Entries 20
Mean 0.02842
Std Dev 1.109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

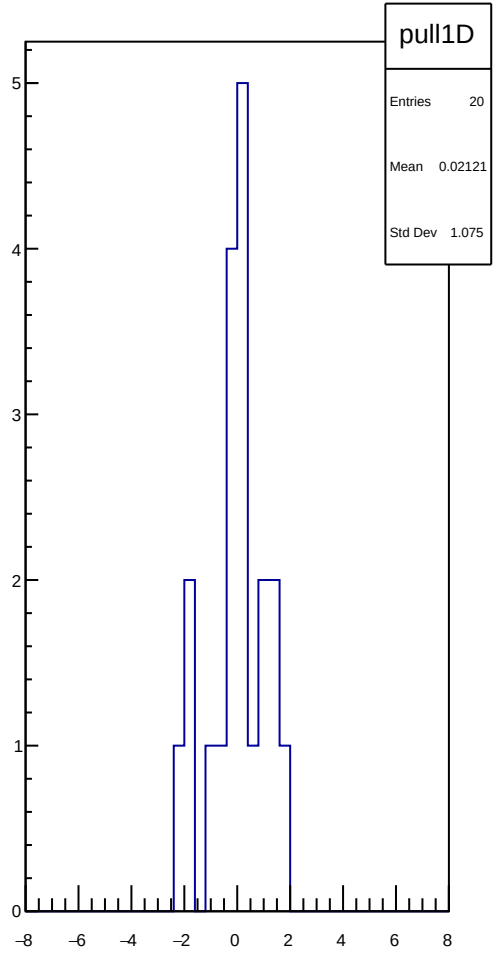

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 13.12 / 19
p0 1317 ± 2.068
1340
1330
1320
1310
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

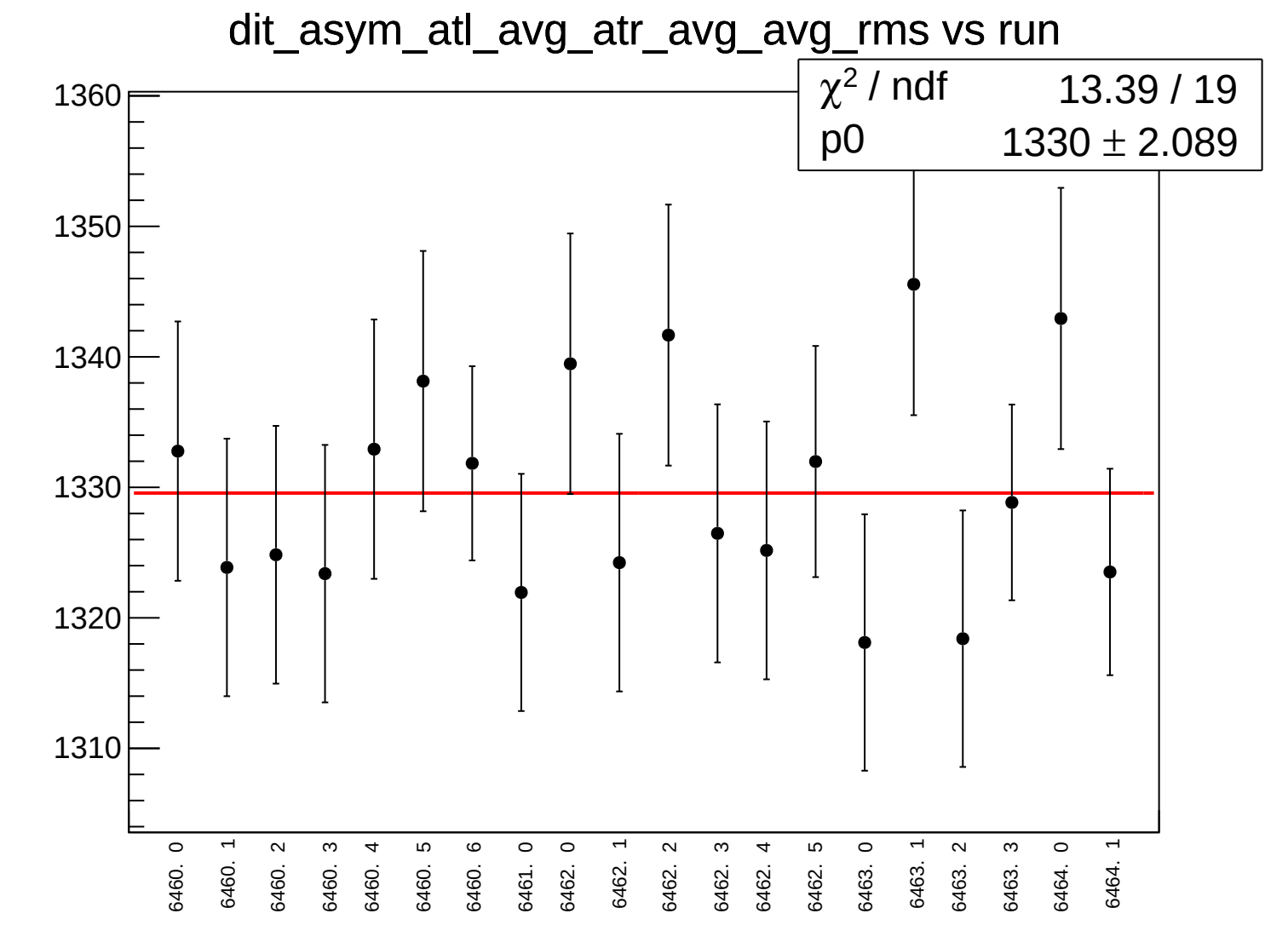

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 10.47 / 19
p0 9089 ± 1.002e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

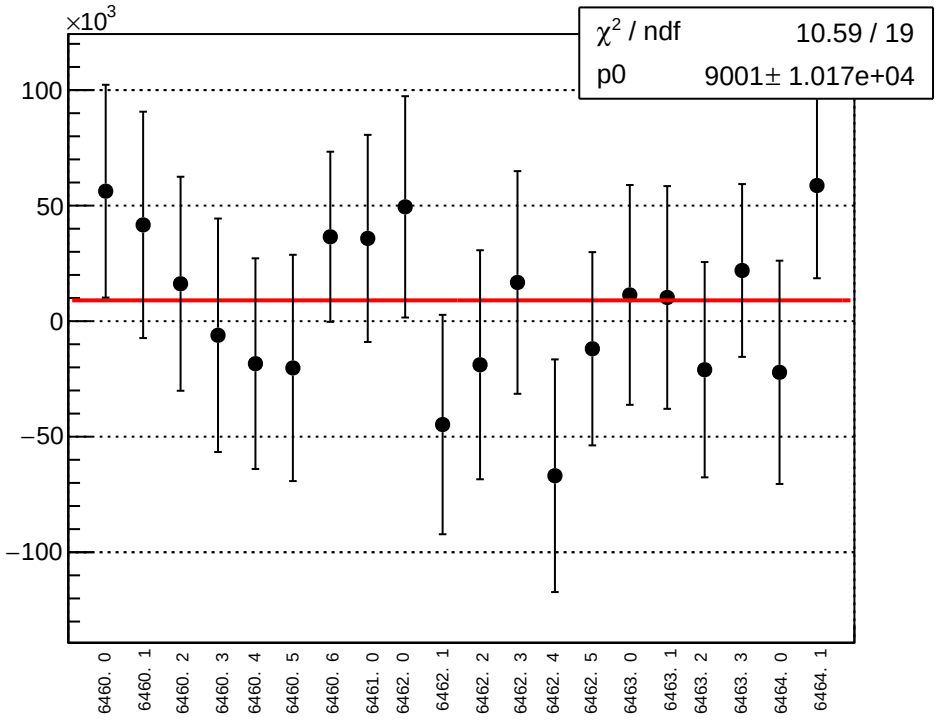

pull1D
Entries 20
Mean −0.03011
Std Dev 0.7231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

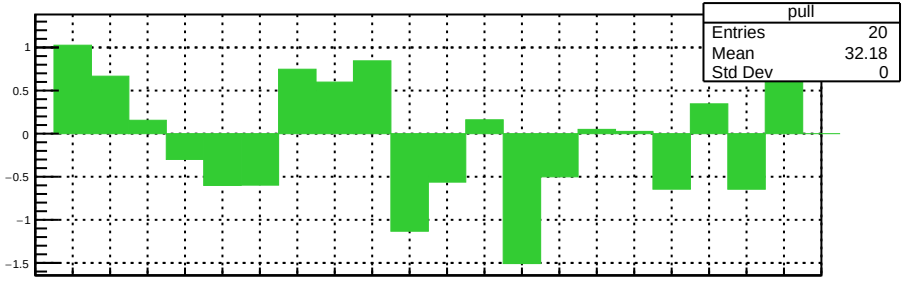

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 346.1 / 19
p0 4507 ± 7.084
4800
4700
4600
4500
4400
4300
4200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

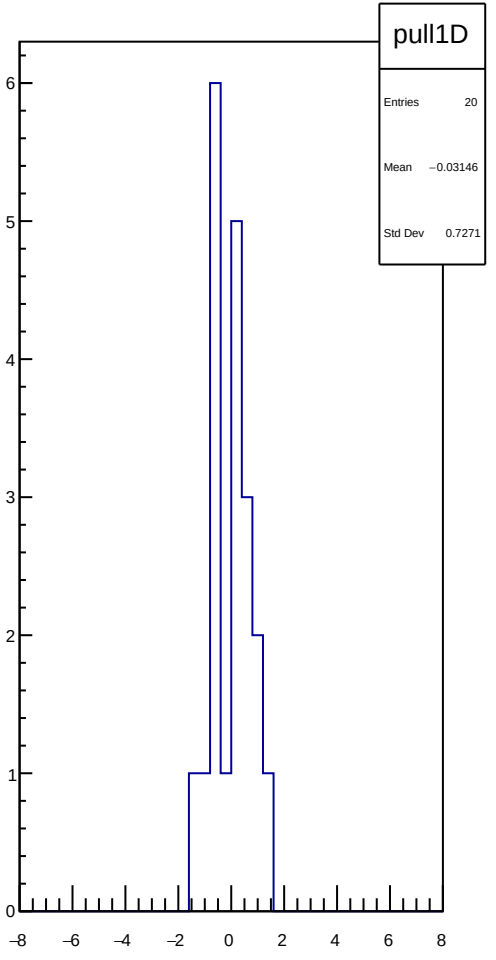

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 23.11 / 19
p0 3465 ± 2954
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.698
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

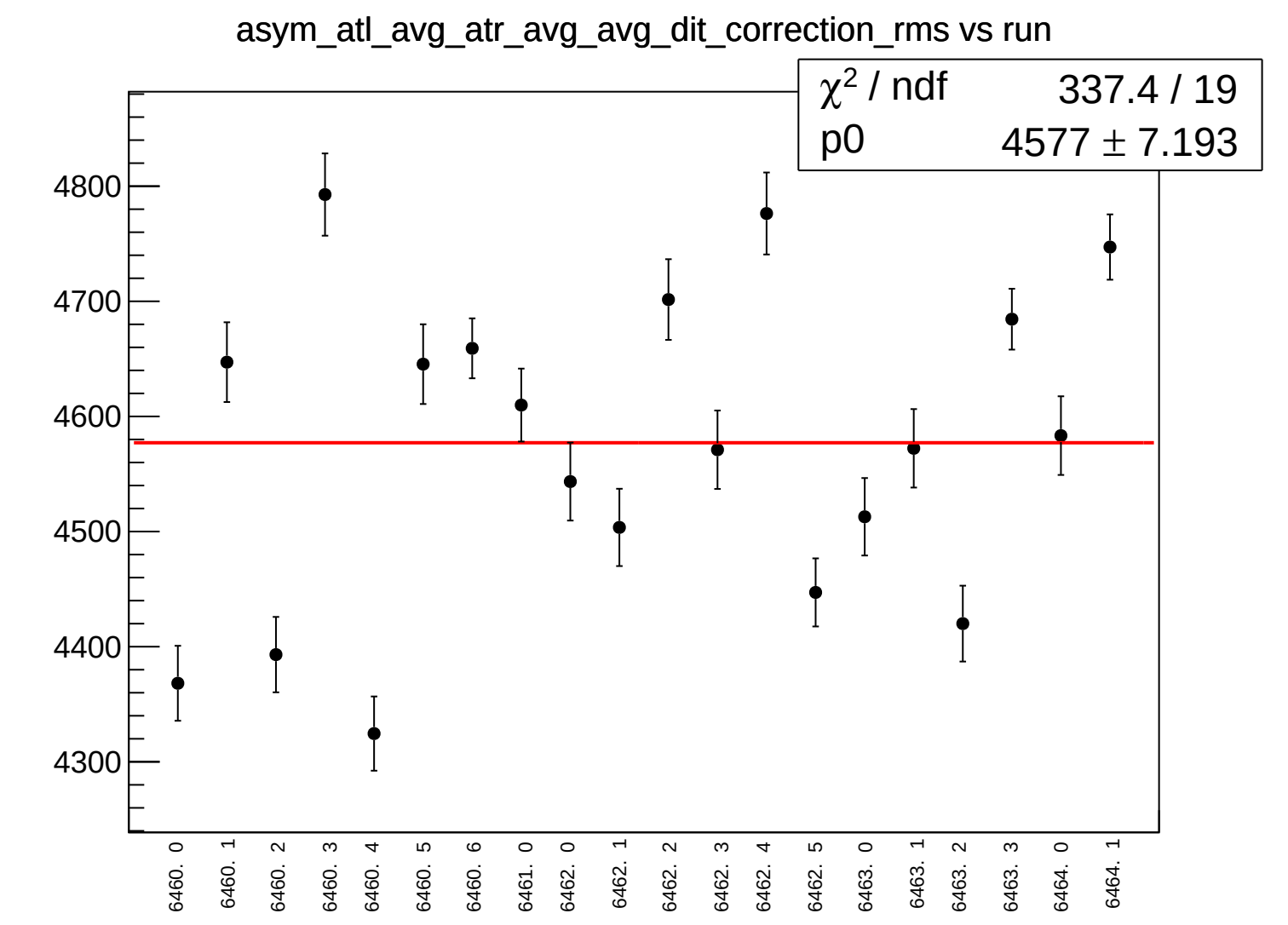

pull1D
Entries 20
Mean 0.02121
Std Dev 1.075
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

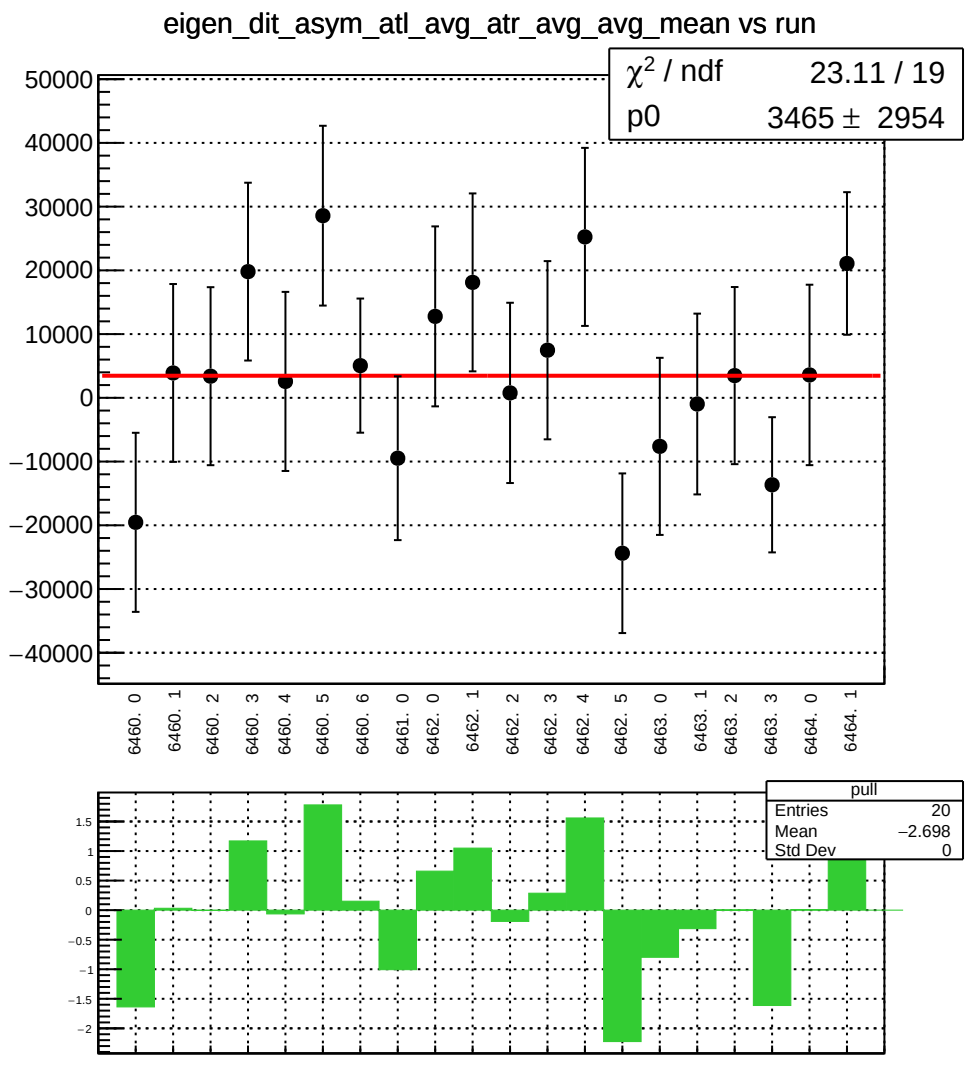

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 13.39 / 19
p0 1330 ± 2.089
1360
1350
1340
1330
1320
1310
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

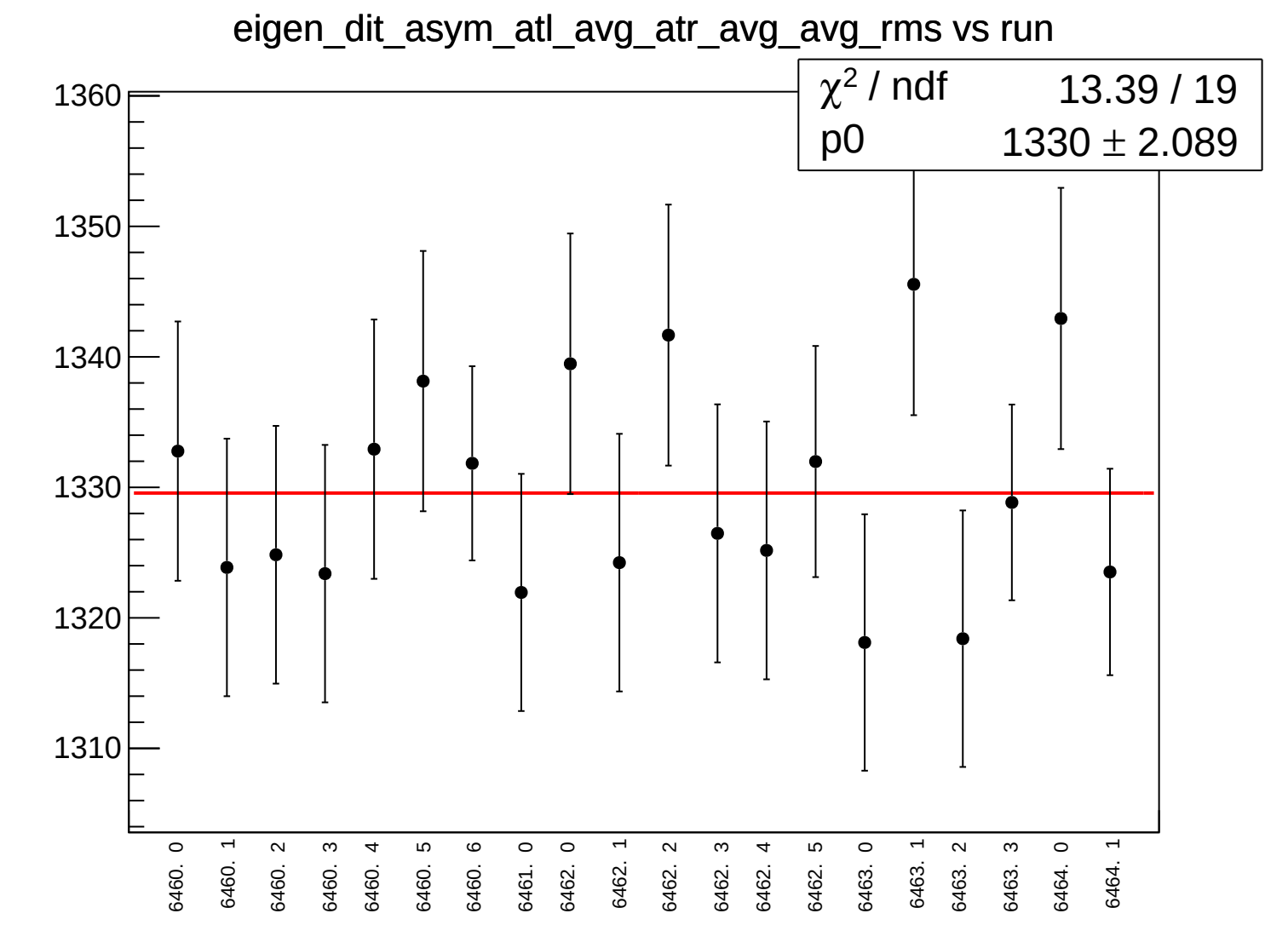

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 10.59 / 19
p0 9001± 1.017e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

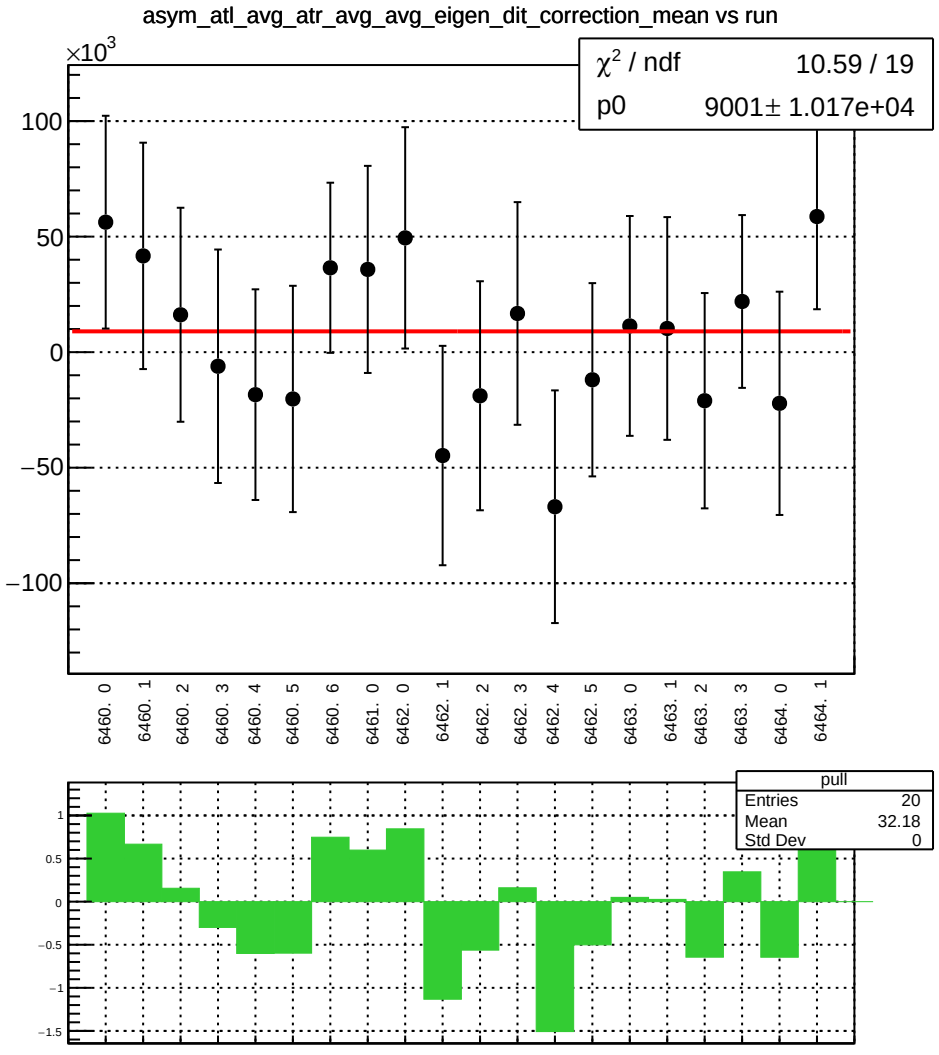

pull
Entries 20
Mean 32.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

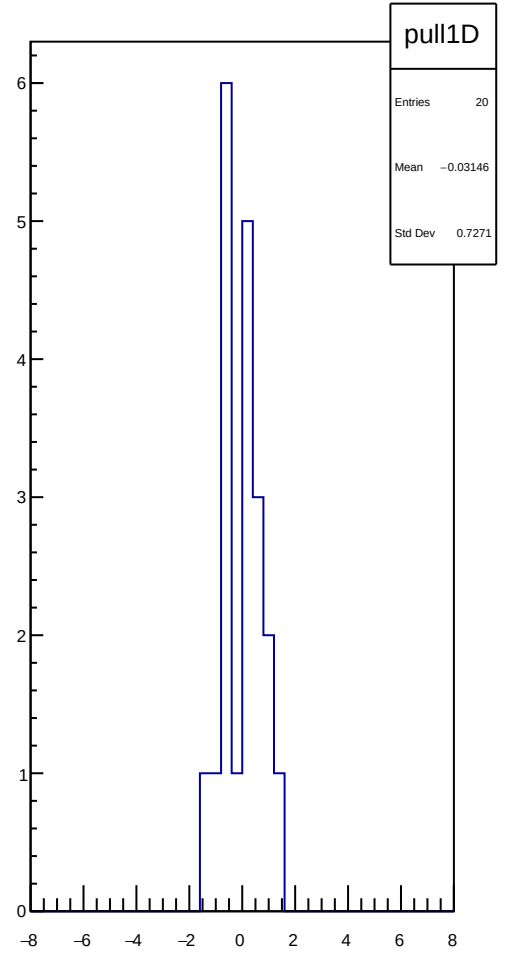

pull1D
Entries 20
Mean −0.03146
Std Dev 0.7271
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

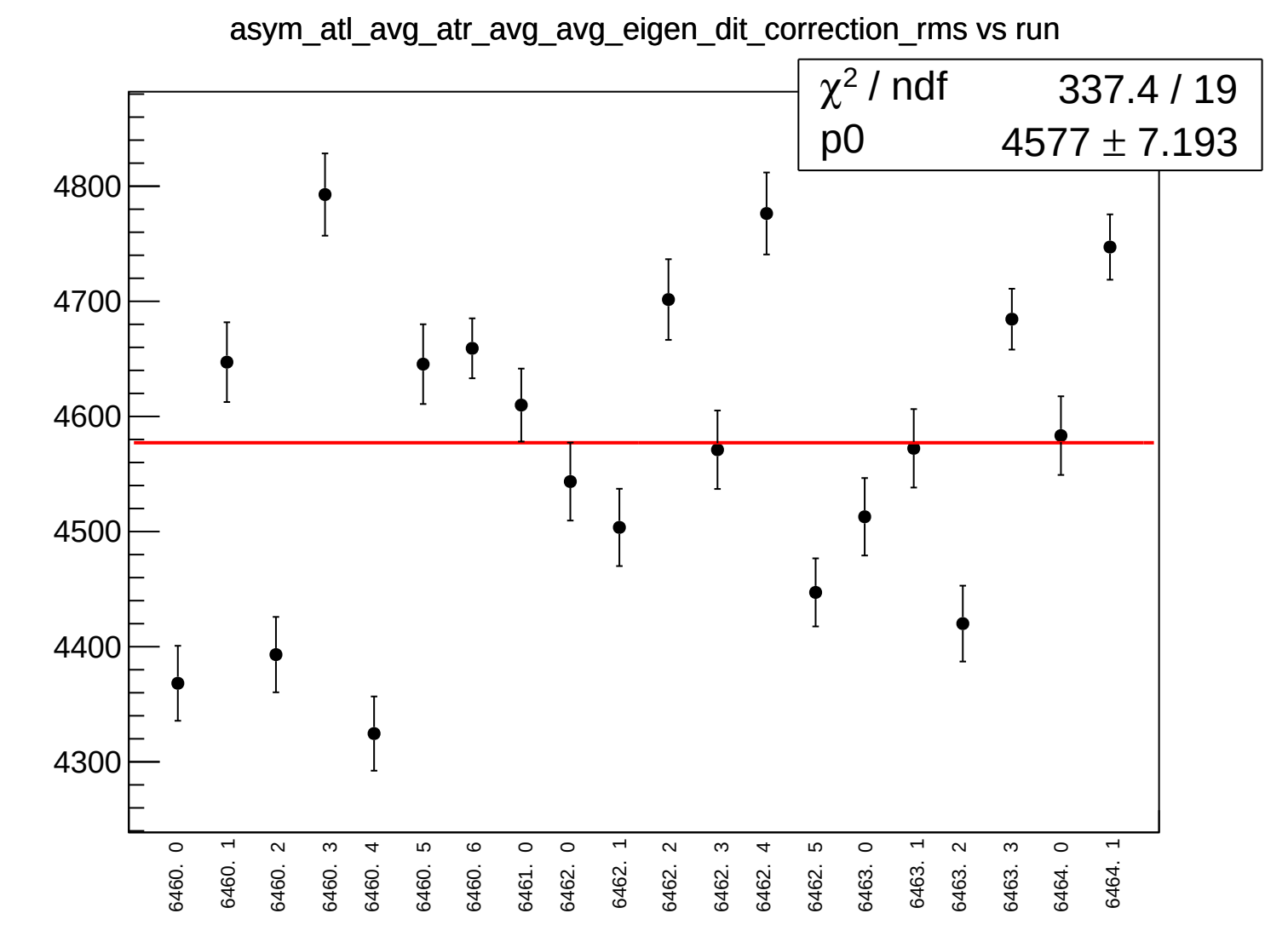

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 337.4 / 19
p0 4577 ± 7.193
4800
4700
4600
4500
4400
4300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

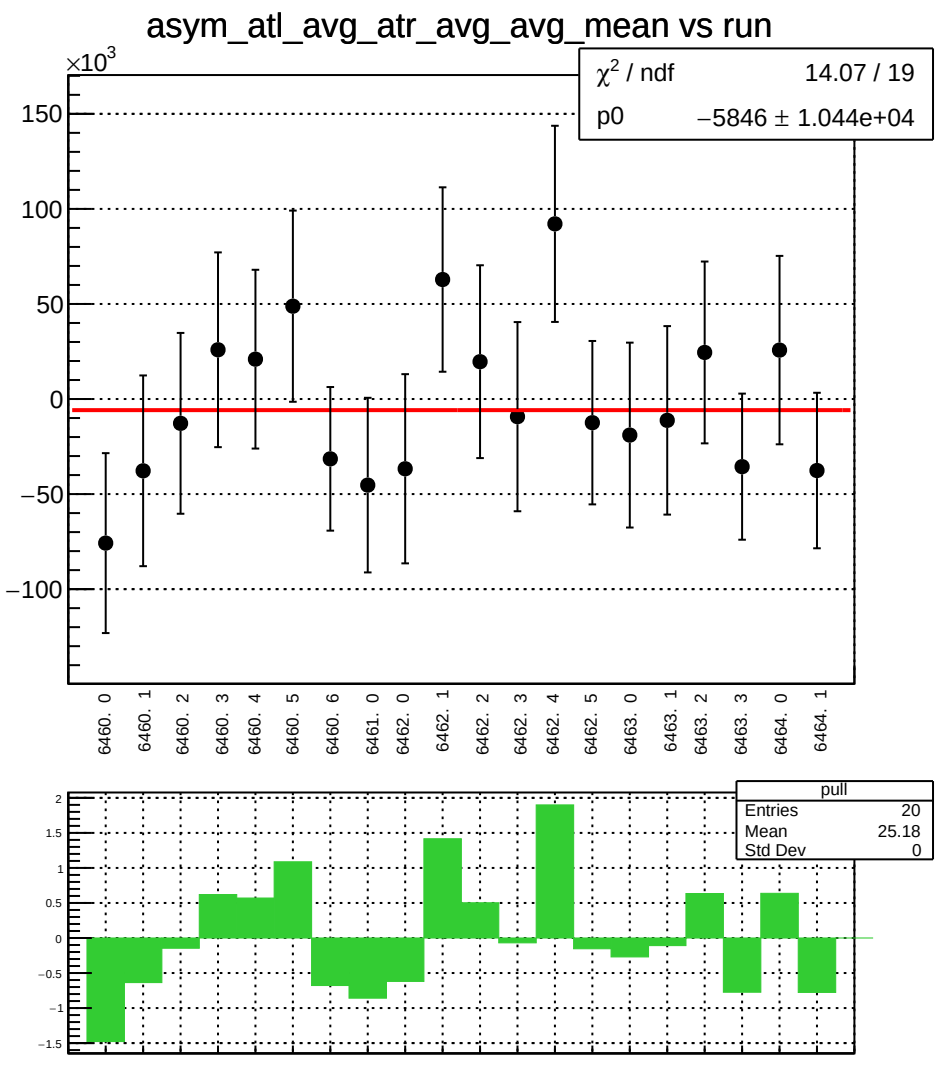

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 23.11 / 19
p0 3465 ± 2954
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.698
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.02121
Std Dev 1.075
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

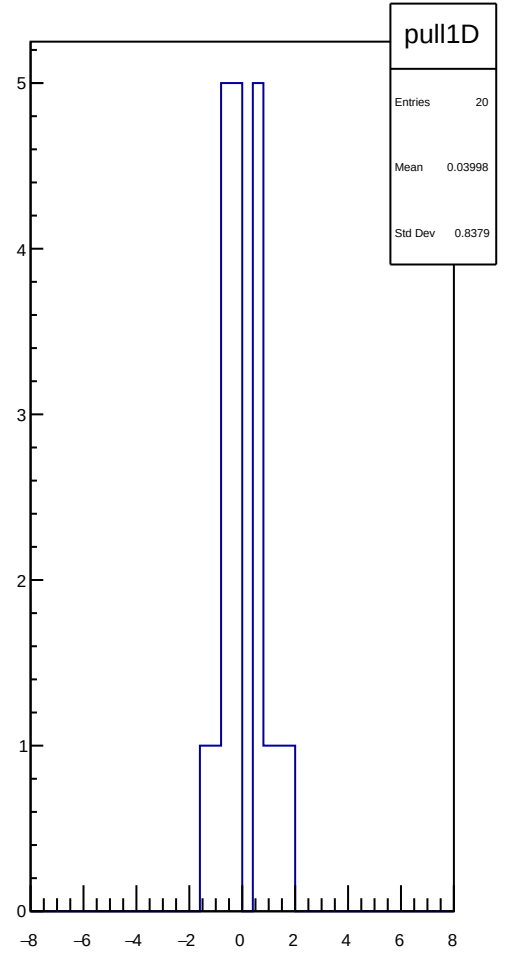

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 13.39 / 19
p0 1330 ± 2.089
1360
1350
1340
1330
1320
1310
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

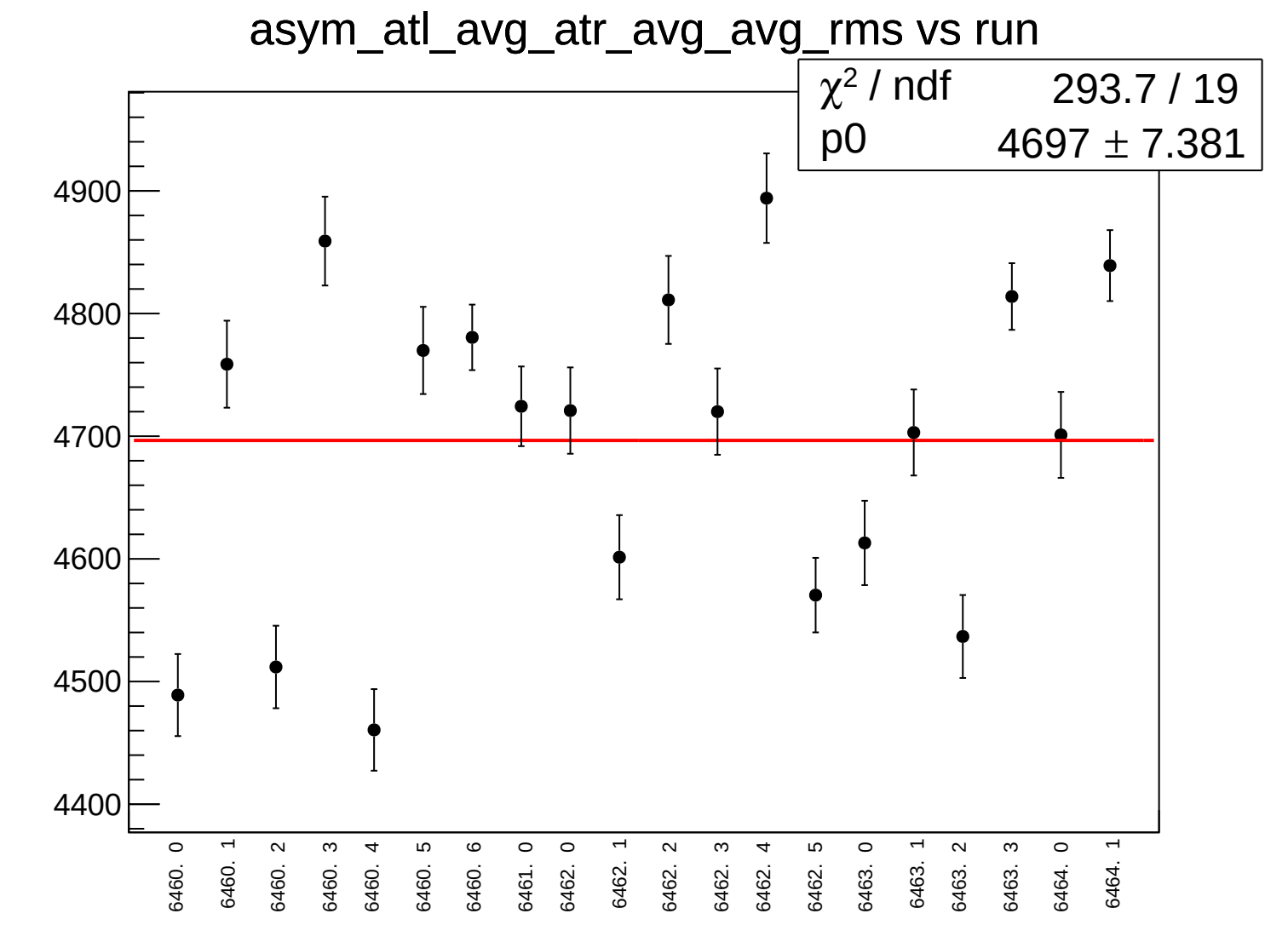

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 10.59 / 19
p0 9001± 1.017e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

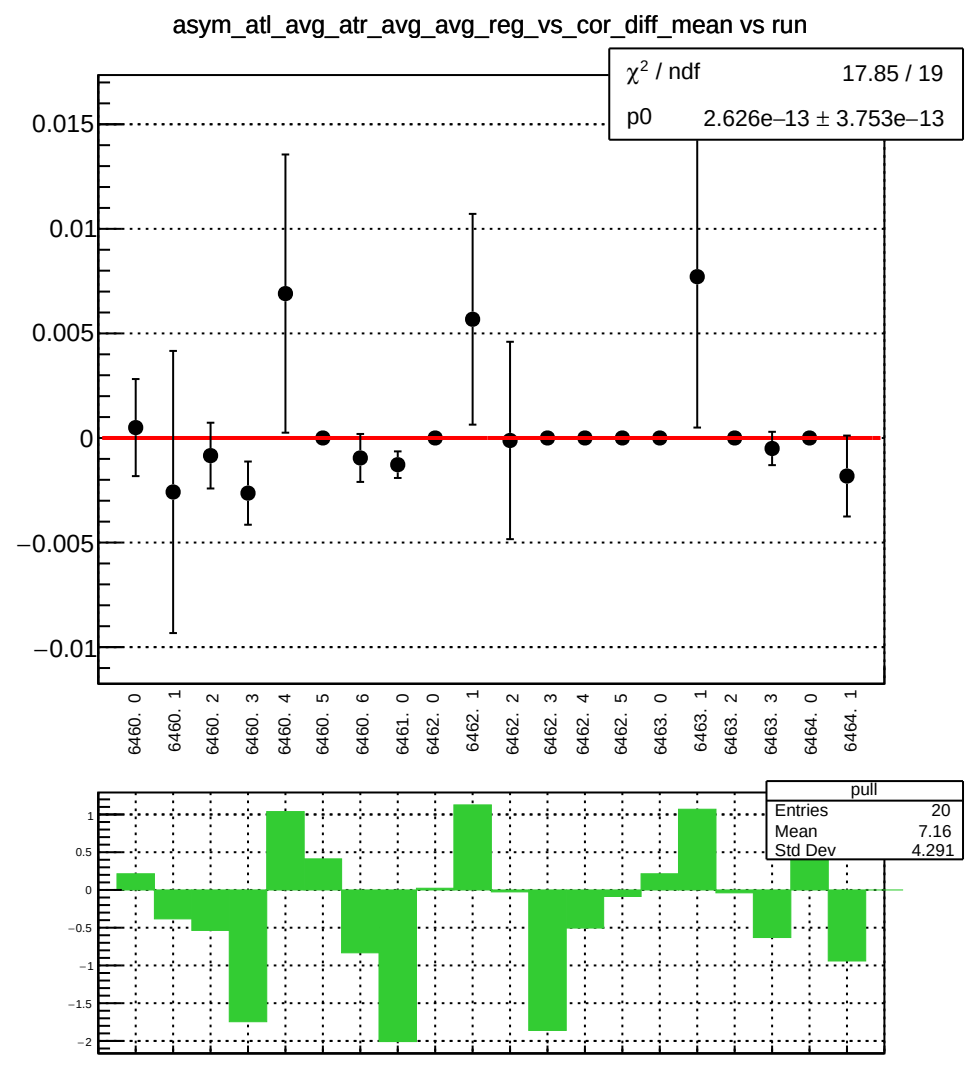

pull1D
Entries 20
Mean −0.03146
Std Dev 0.7271
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

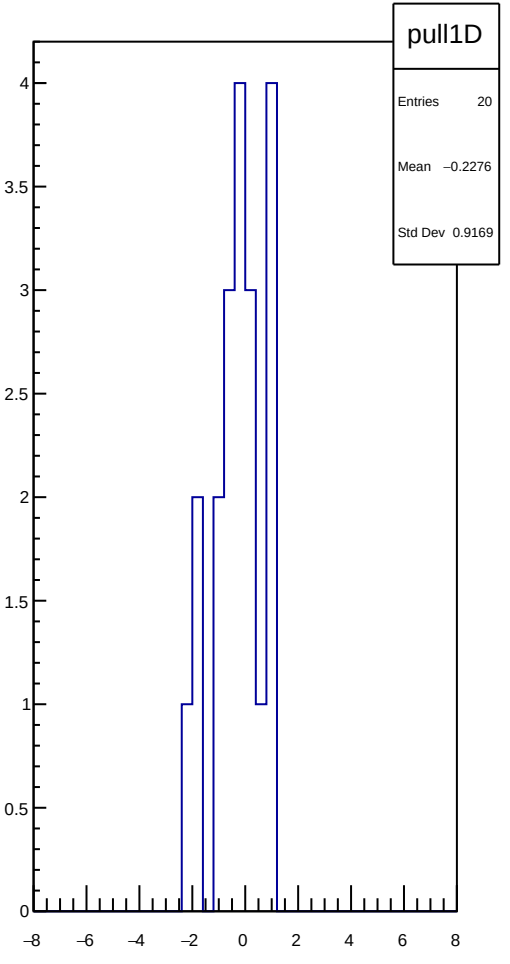

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 337.4 / 19
p0 4577 ± 7.193
4800
4700
4600
4500
4400
4300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

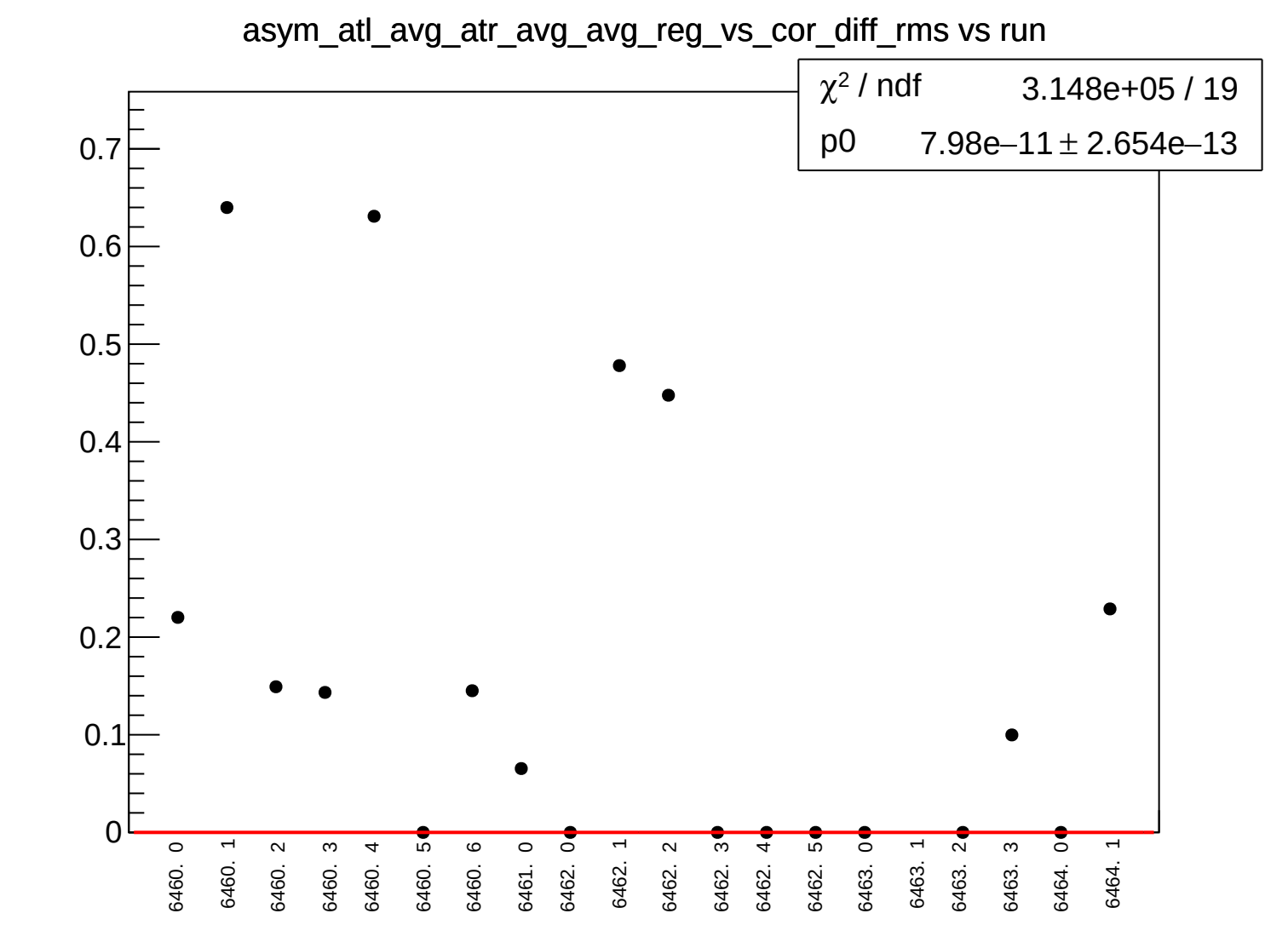

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 14.07 / 19
p0 −5846 ± 1.044e+04
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 25.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

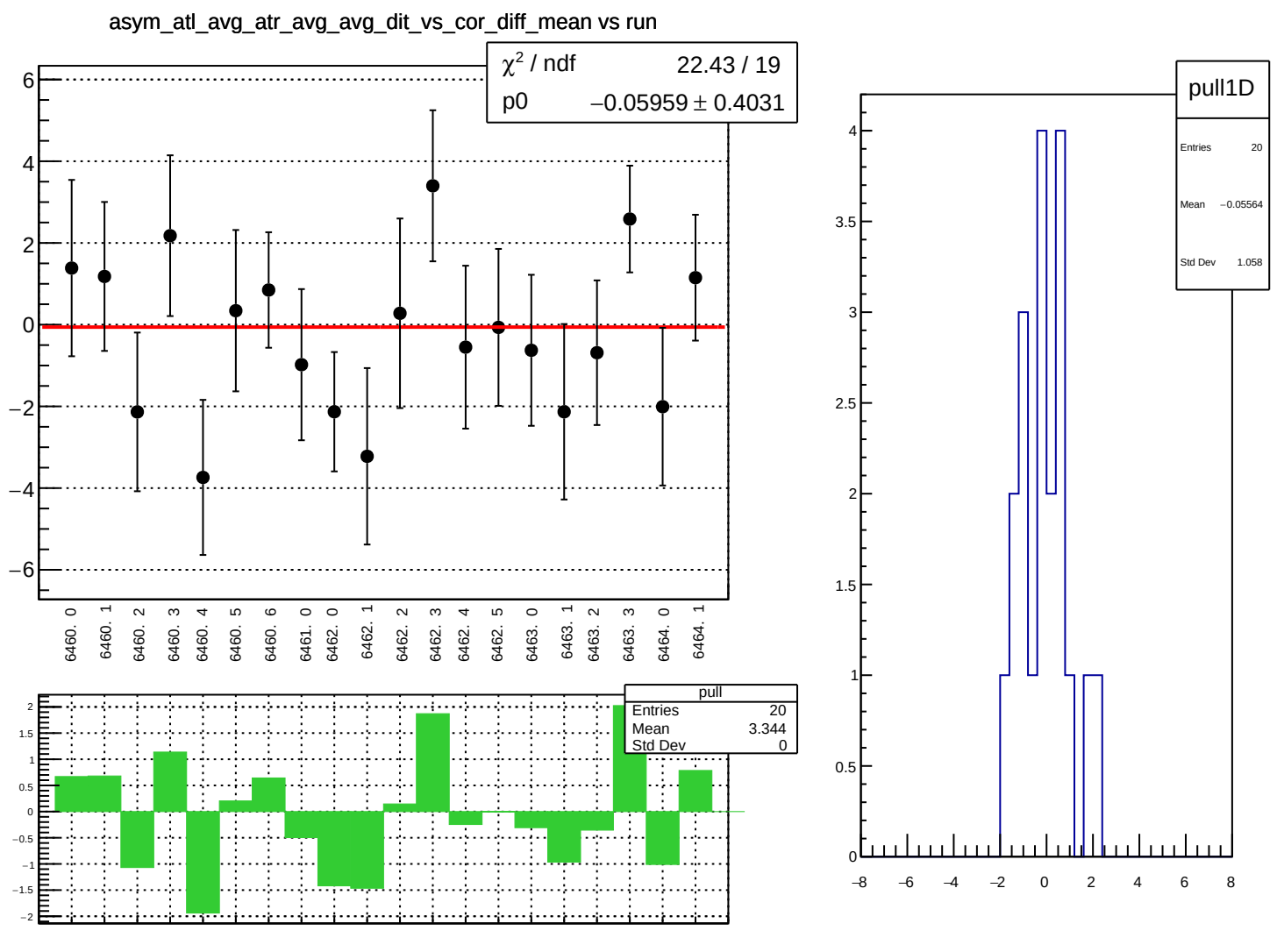

pull1D
Entries 20
Mean 0.03998
Std Dev 0.8379
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

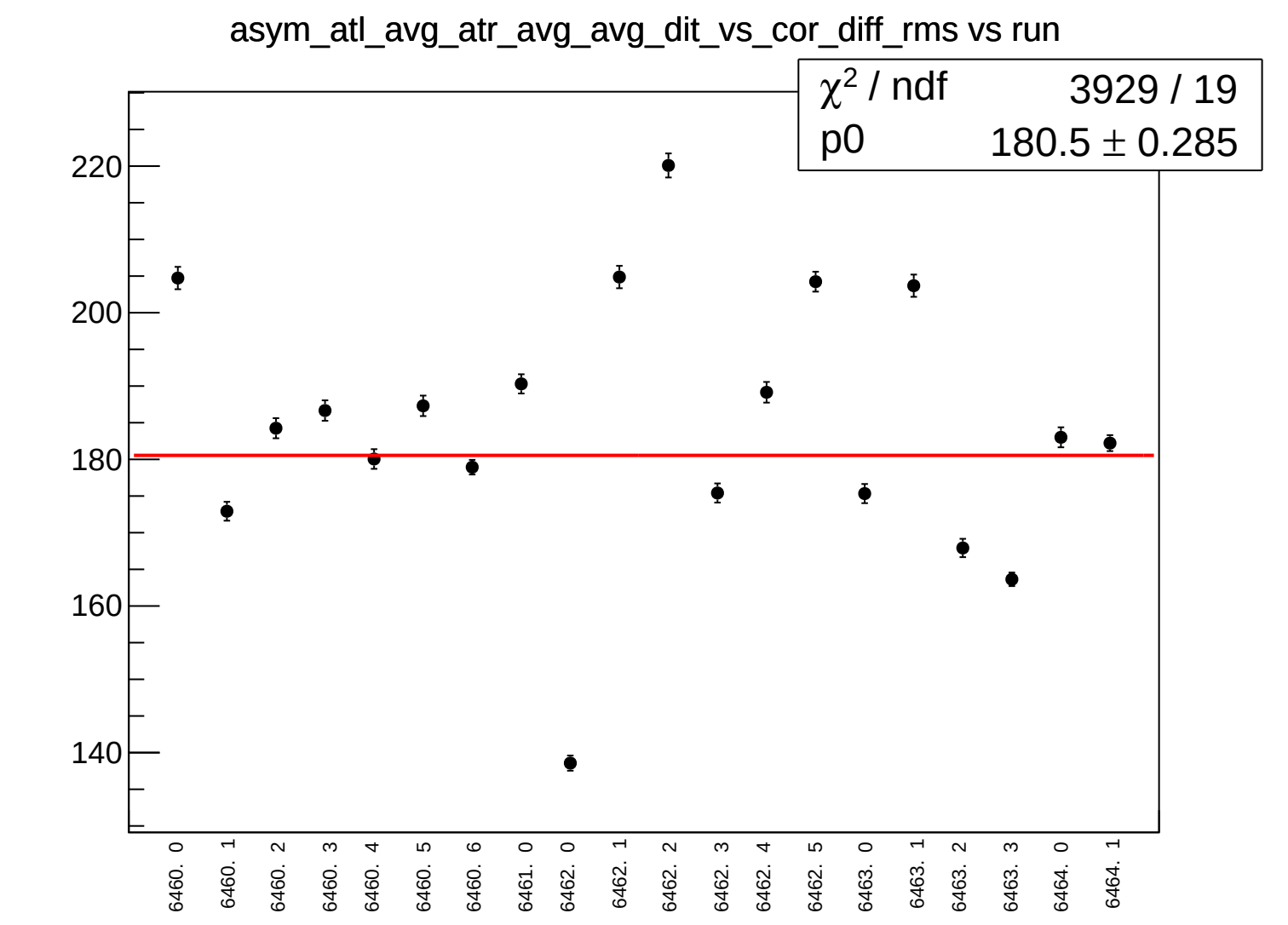

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 293.7 / 19
p0 4697 ± 7.381
4900
4800
4700
4600
4500
4400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

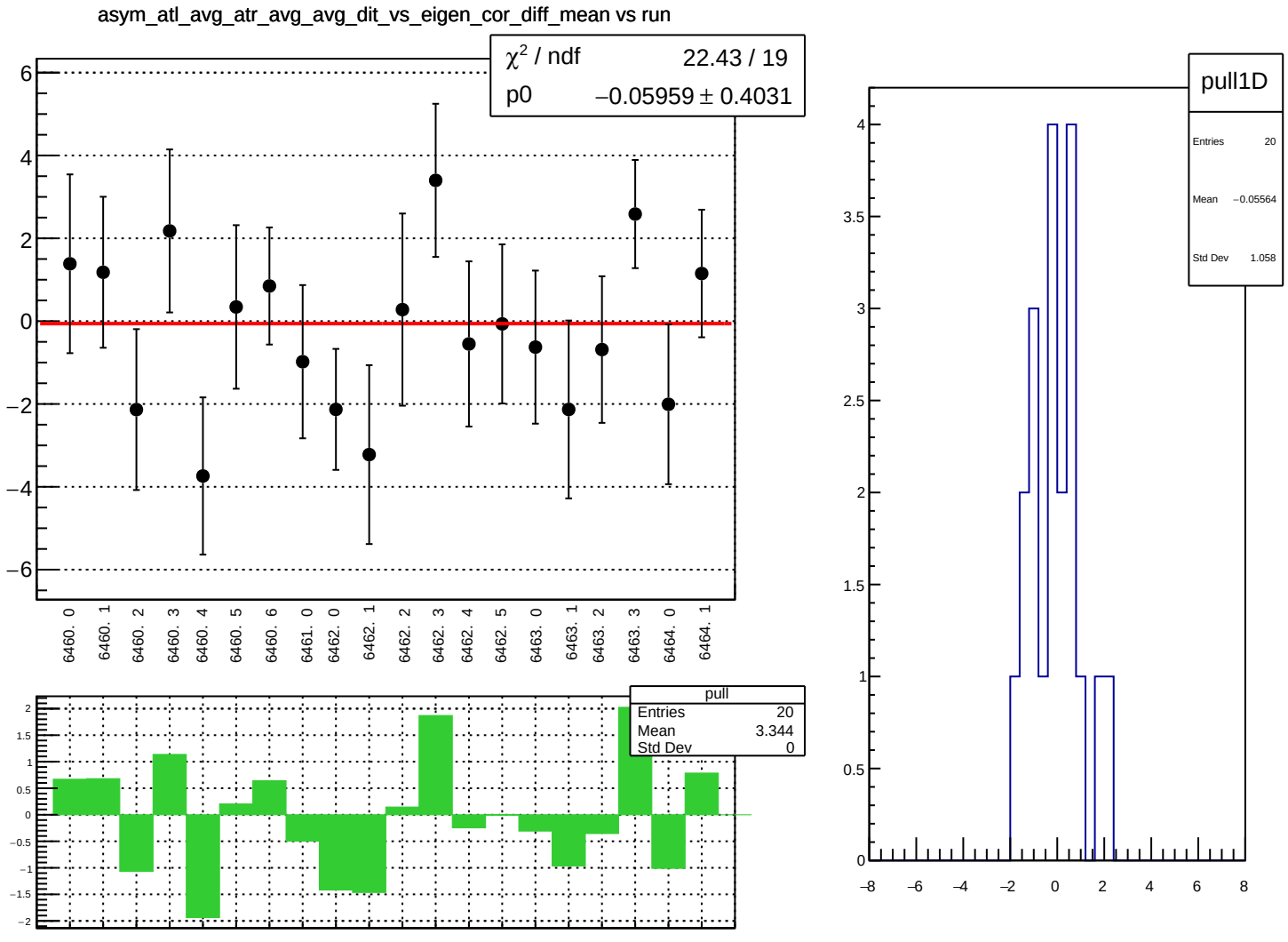

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 17.85 / 19
p0 2.626e−13 ± 3.753e−13
0.015
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.16
Std Dev 4.291
1
0.5
0
−0.5
−1
−1.5
−2

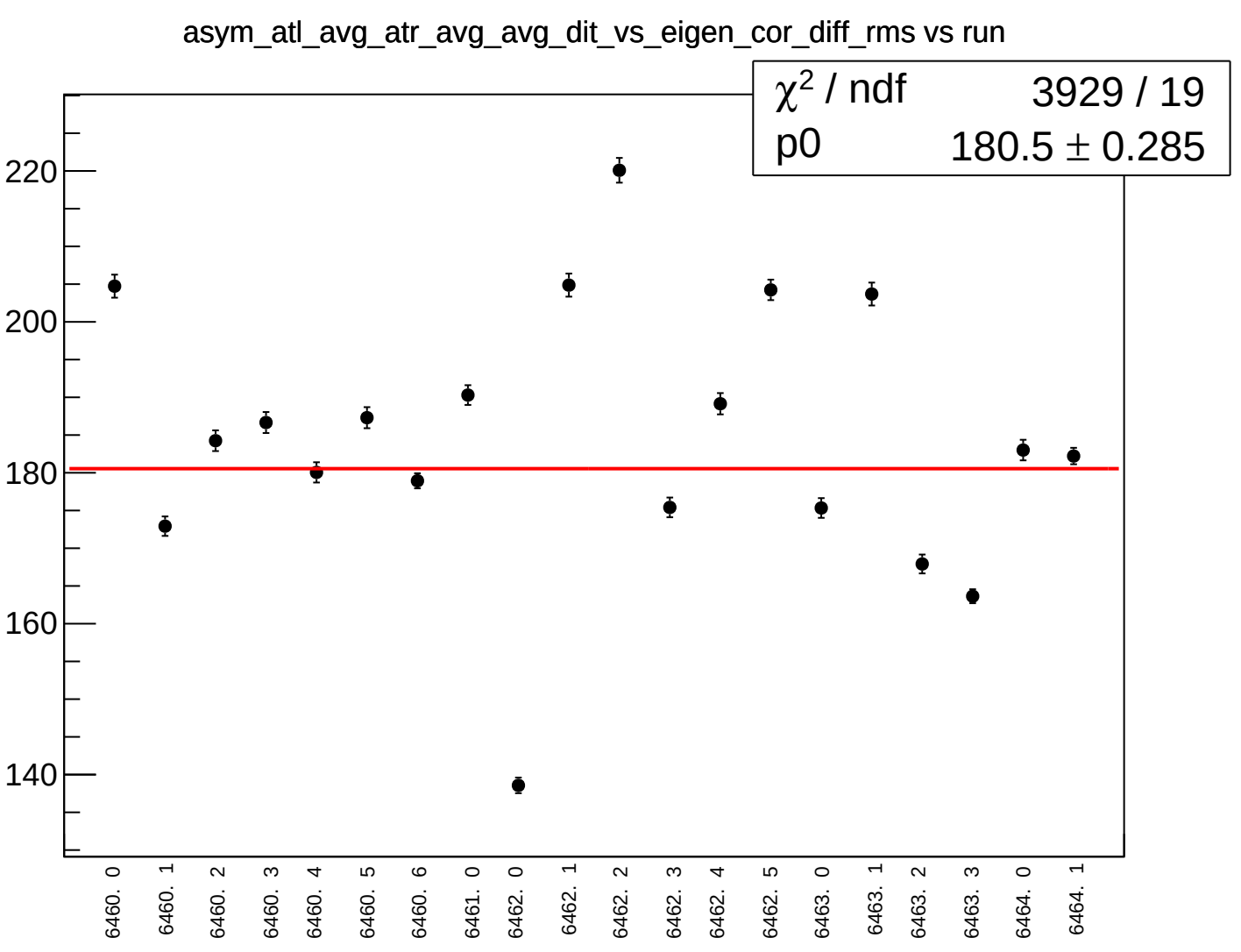

pull1D
Entries 20
Mean −0.2276
Std Dev 0.9169
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

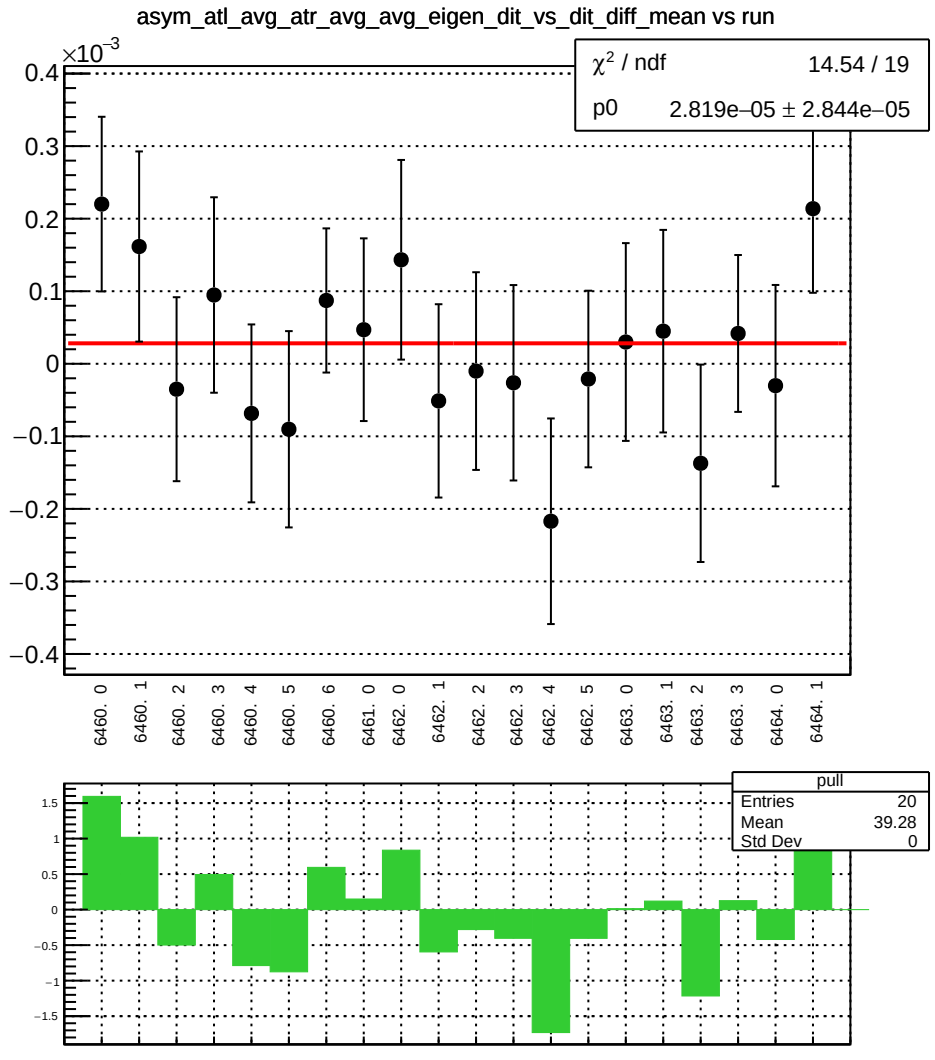

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.148e+05 / 19
p0 7.98e−11 ± 2.654e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

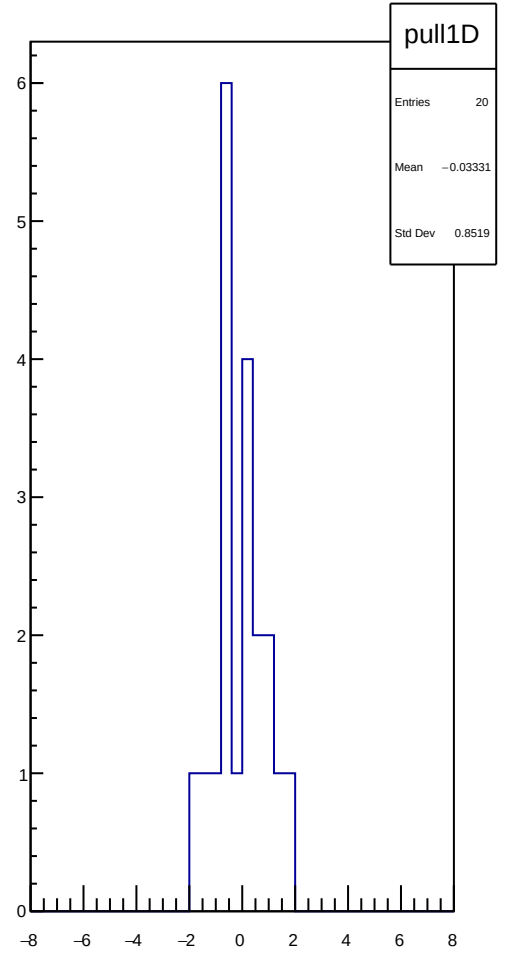

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 22.43 / 19
p0 −0.05959 ± 0.4031
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.344
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.05564
Std Dev 1.058
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

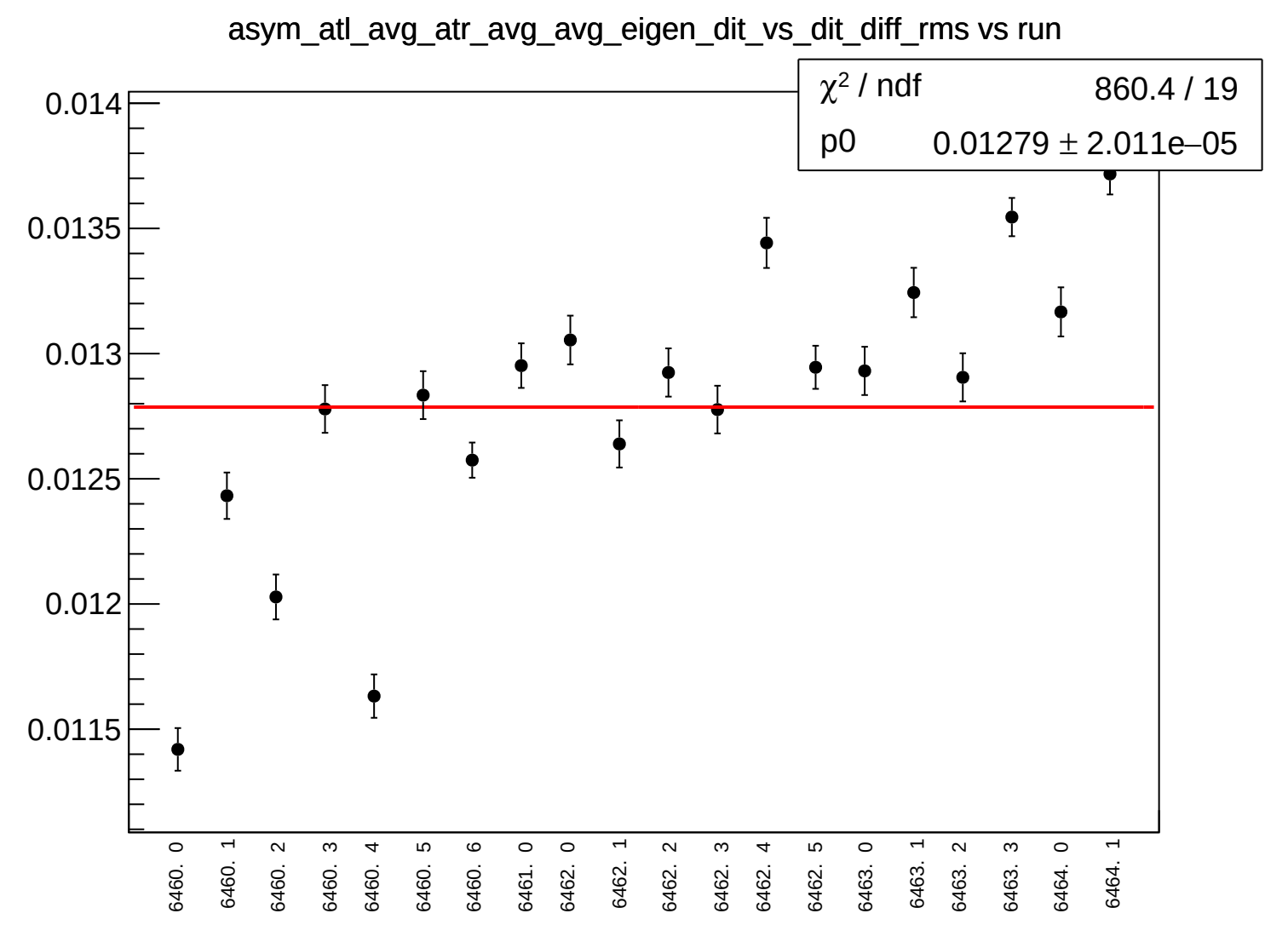

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3929 / 19
p0 180.5 ± 0.285
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

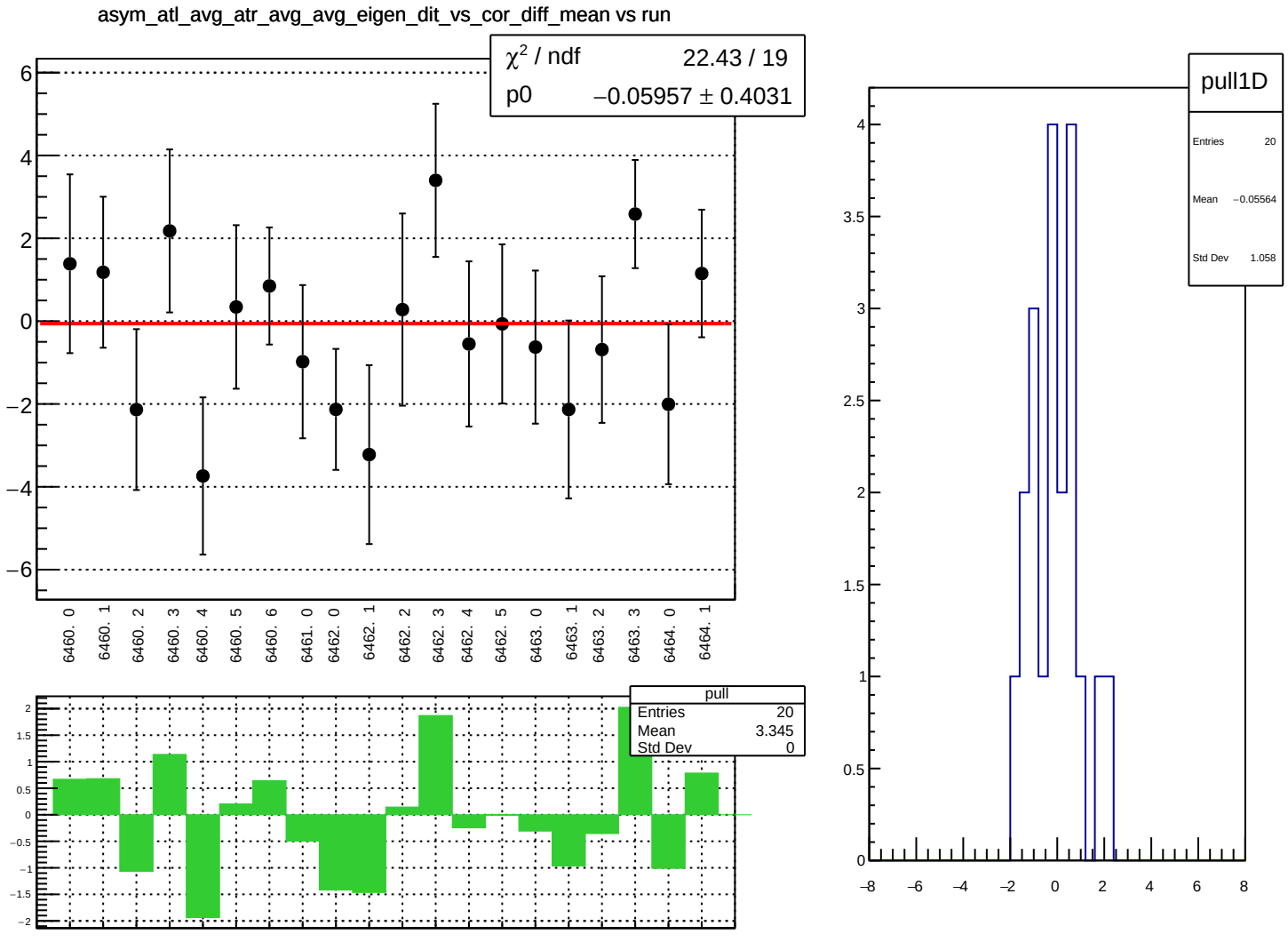

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.43 / 19
p0 −0.05959 ± 0.4031
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.344
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.05564
Std Dev 1.058
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

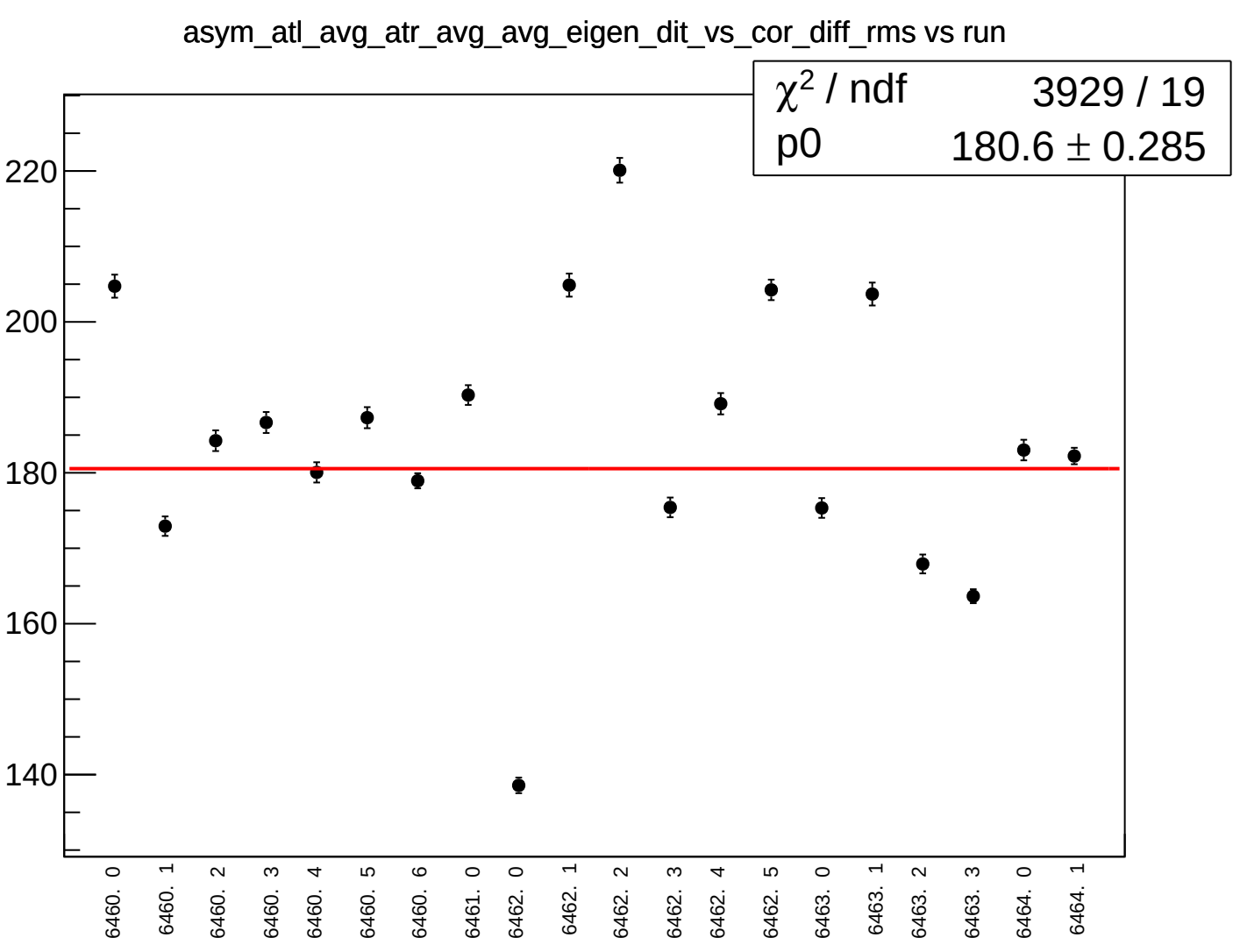

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3929 / 19
p0 180.5 ± 0.285
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

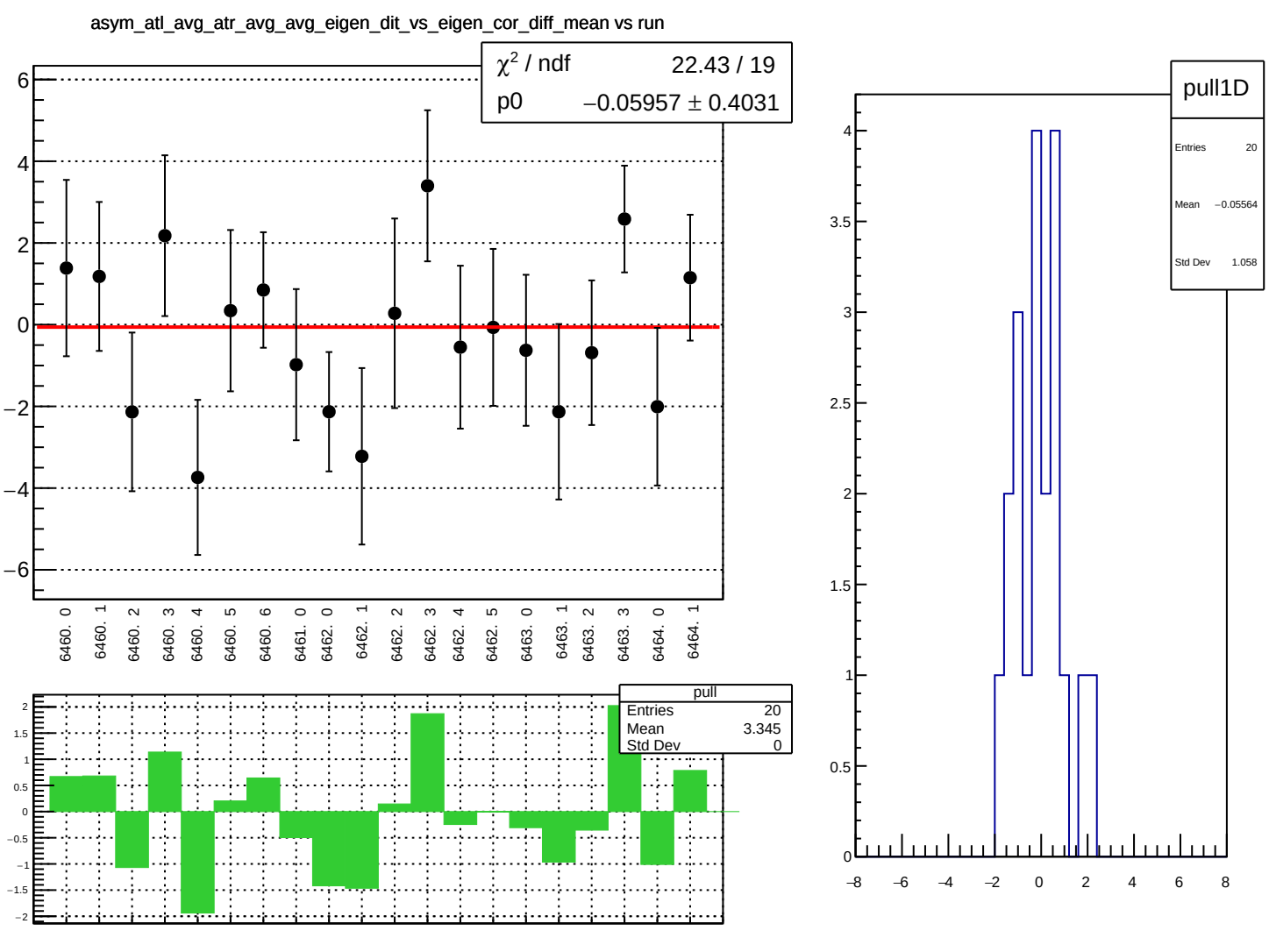

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.54 / 19
p0 2.819e−05 ± 2.844e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

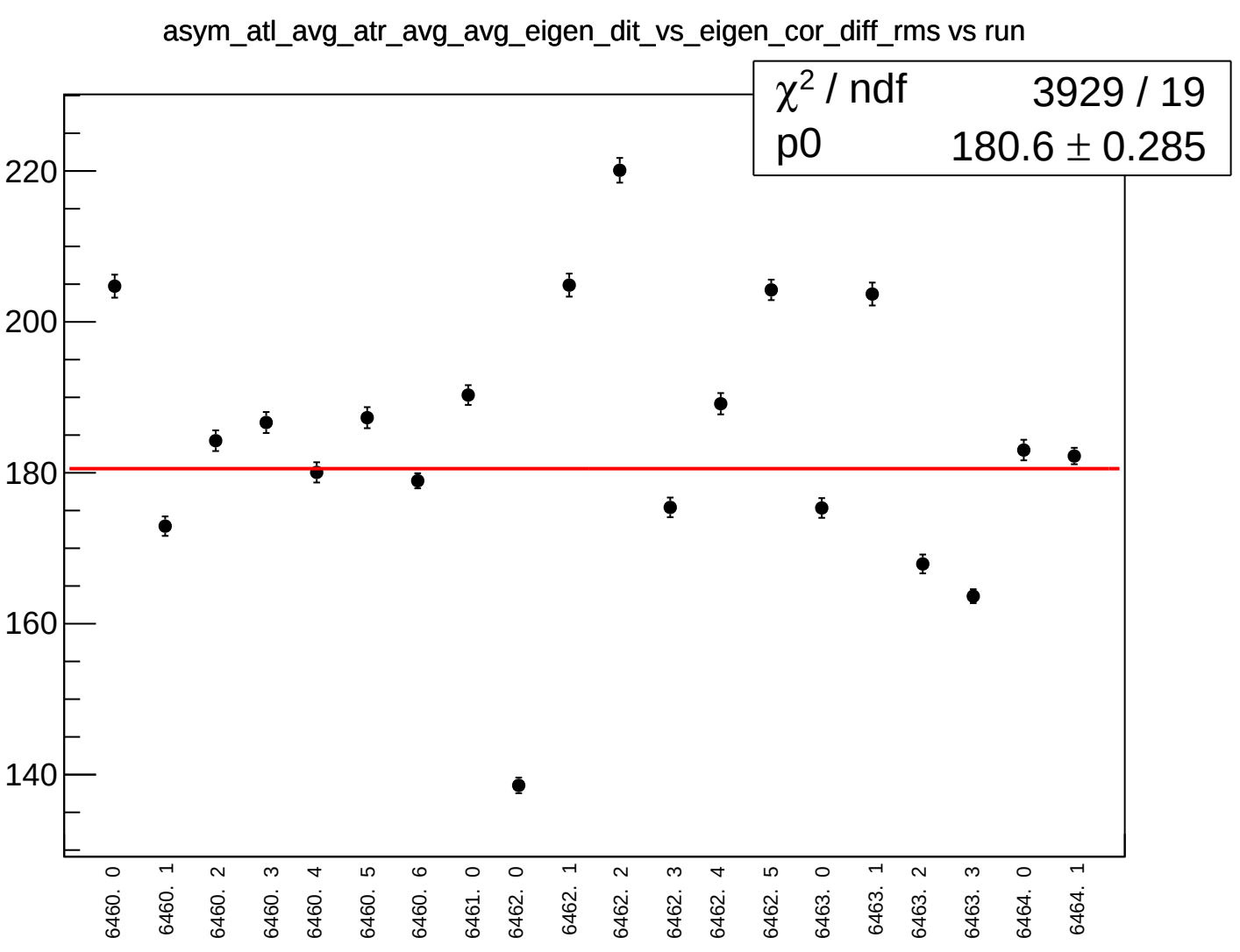

pull1D
Entries 20
Mean −0.03331
Std Dev 0.8519
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

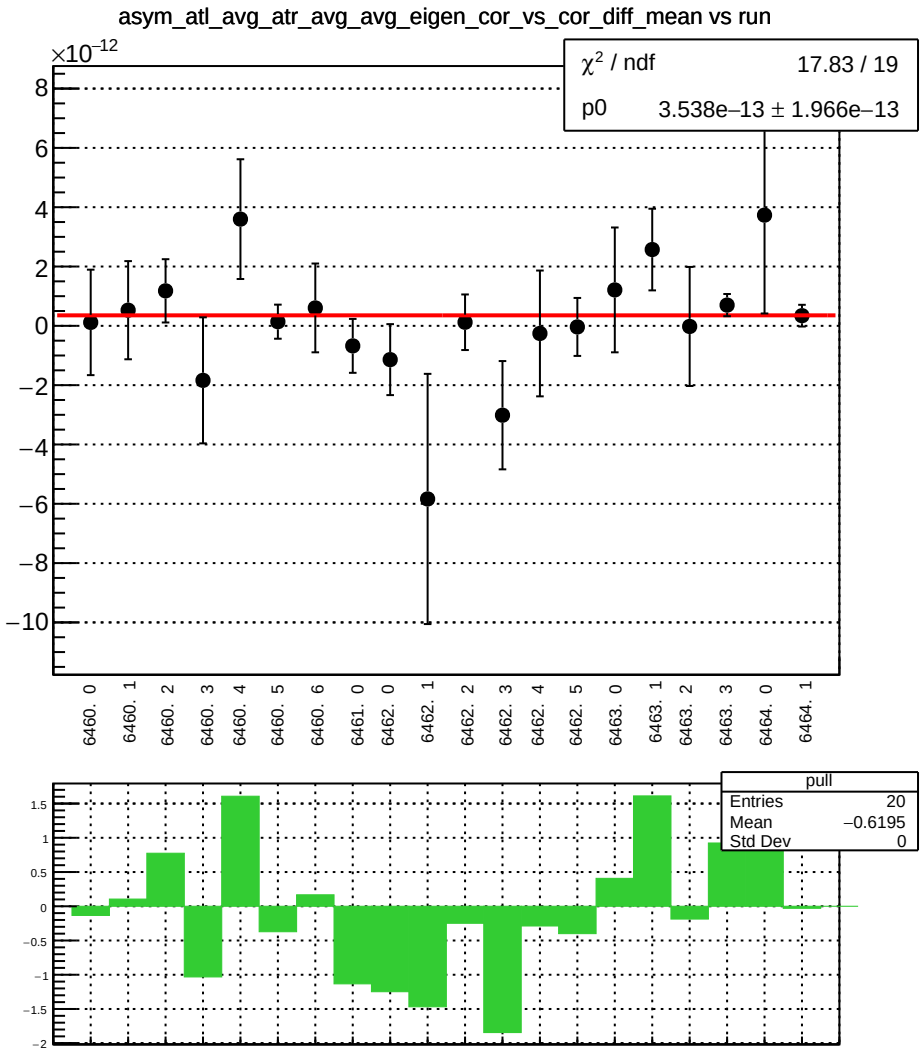

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 860.4 / 19
p0 0.01279 ± 2.011e–05
0.014
0.0135
0.013
0.0125
0.012
0.0115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

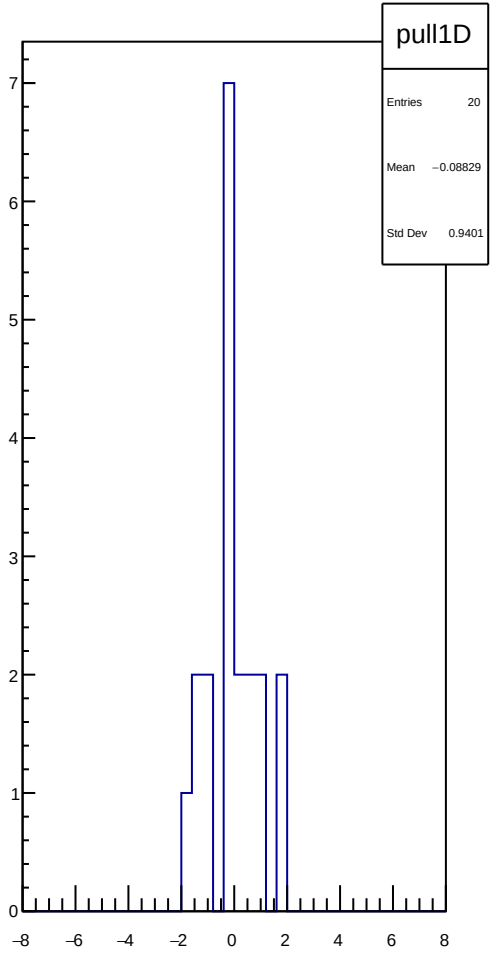

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.43 / 19
p0 −0.05957 ± 0.4031
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.345
Std Dev 0
pull1D
Entries 20
Mean −0.05564
Std Dev 1.058

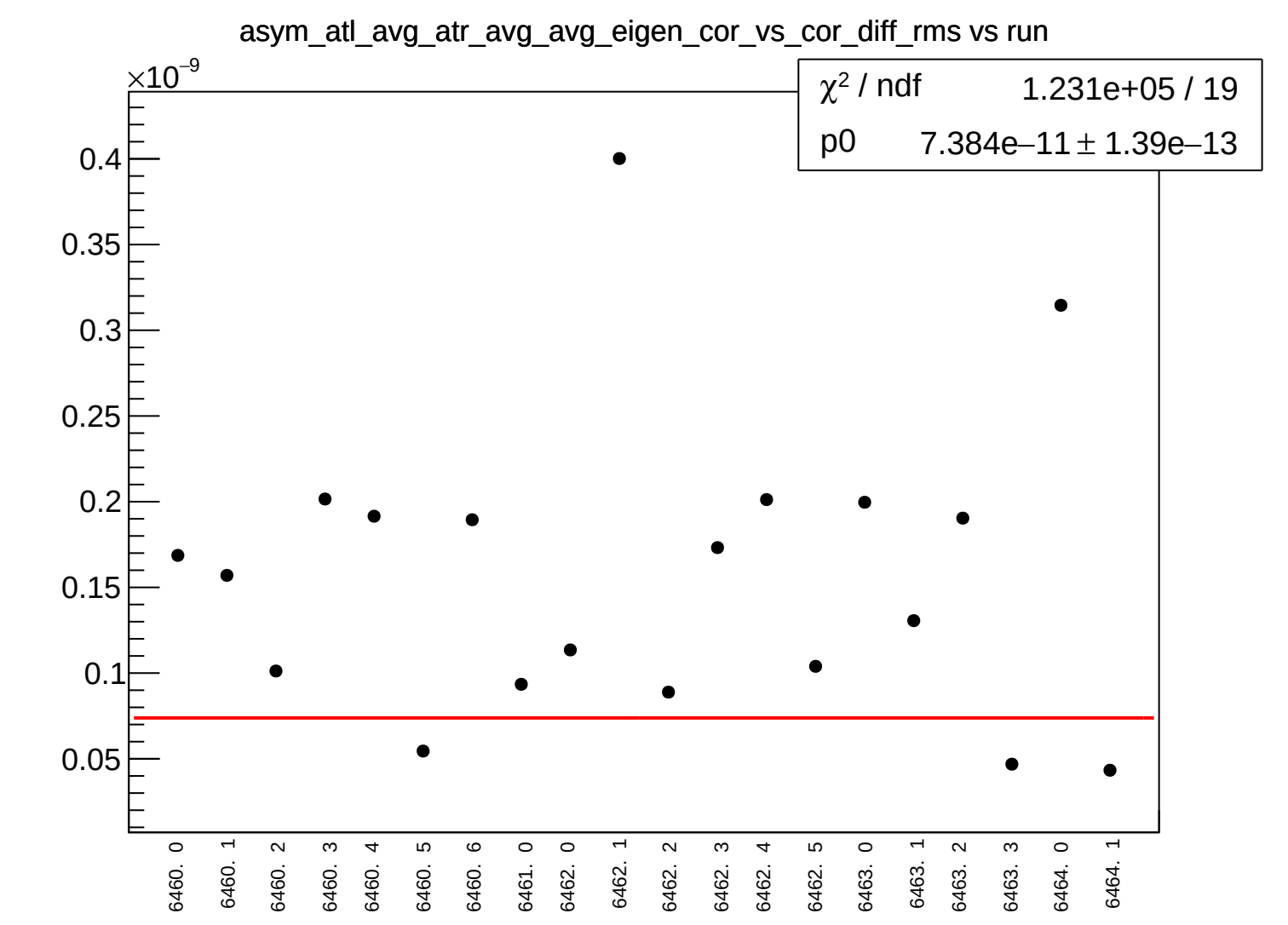

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3929 / 19
p0 180.6 ± 0.285
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

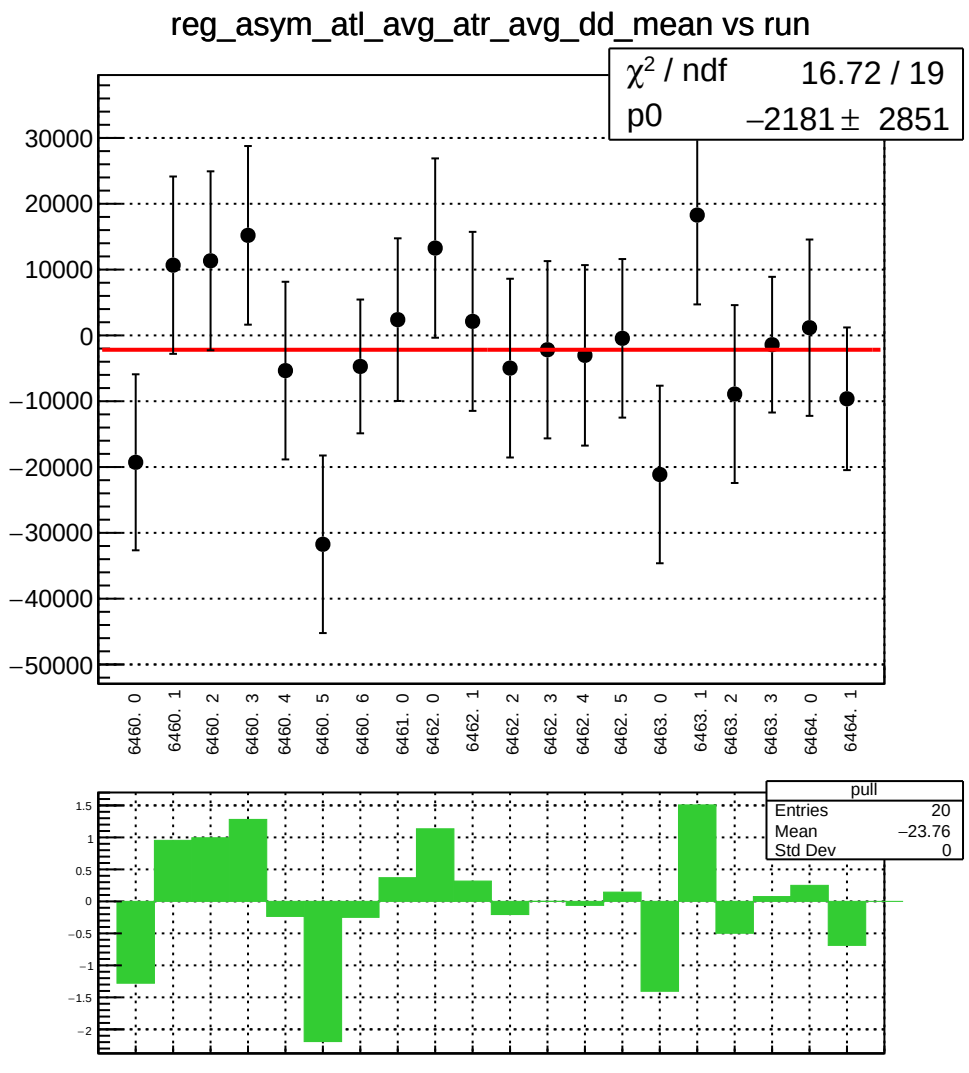

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.43 / 19
p0 −0.05957 ± 0.4031
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.345
Std Dev 0
pull1D
Entries 20
Mean −0.05564
Std Dev 1.058

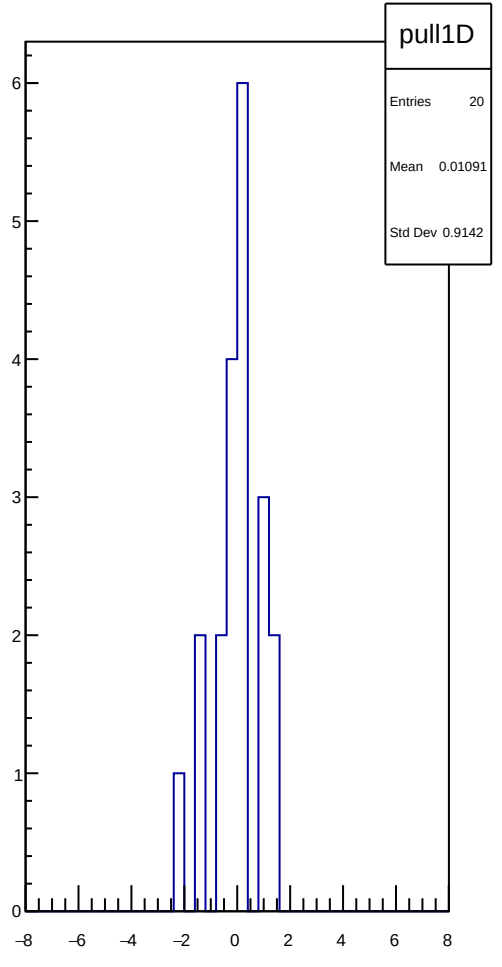

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3929 / 19
p0 180.6 ± 0.285
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

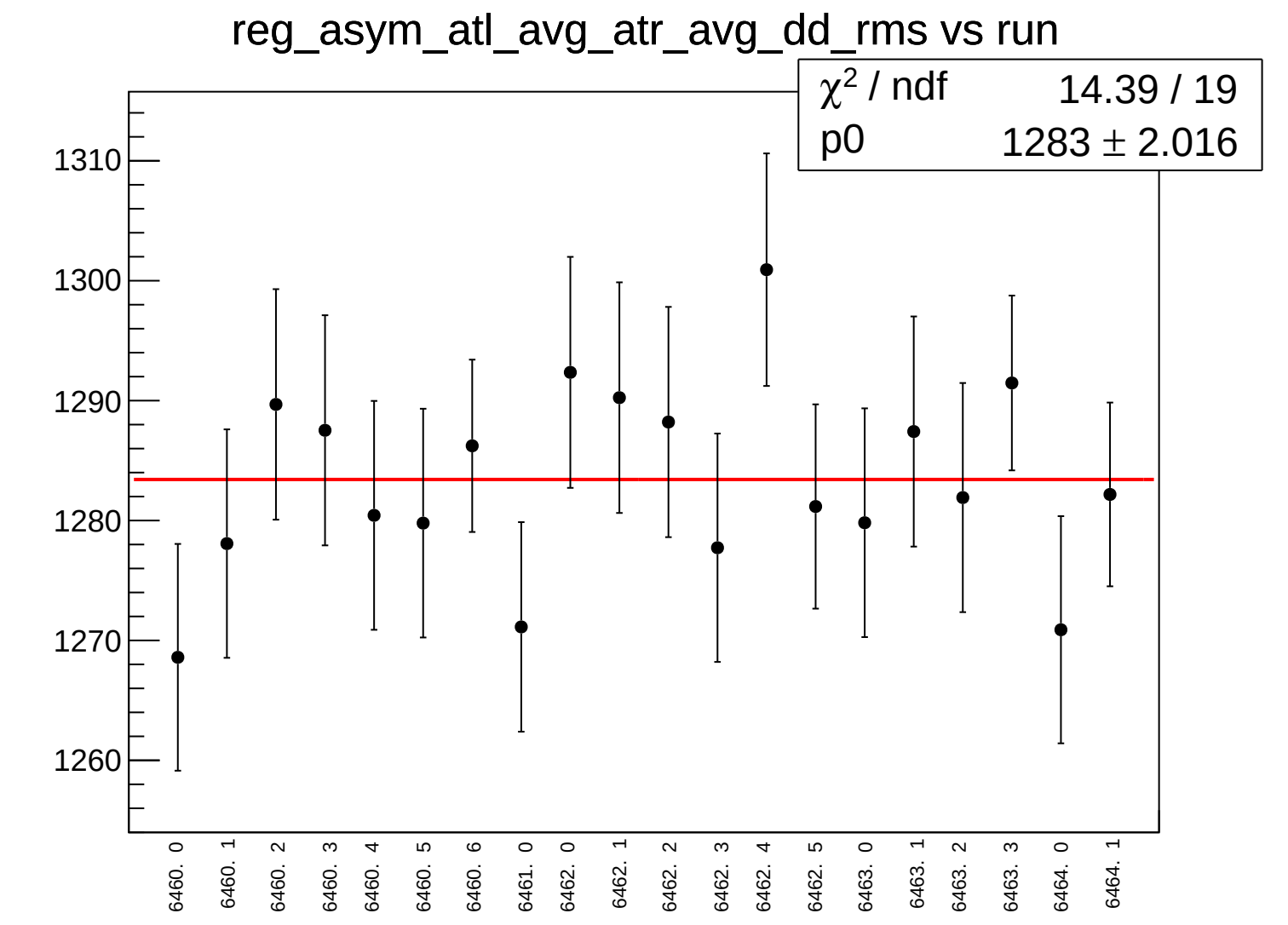

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.83 / 19
p0 3.538e−13 ± 1.966e−13
8
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.6195
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

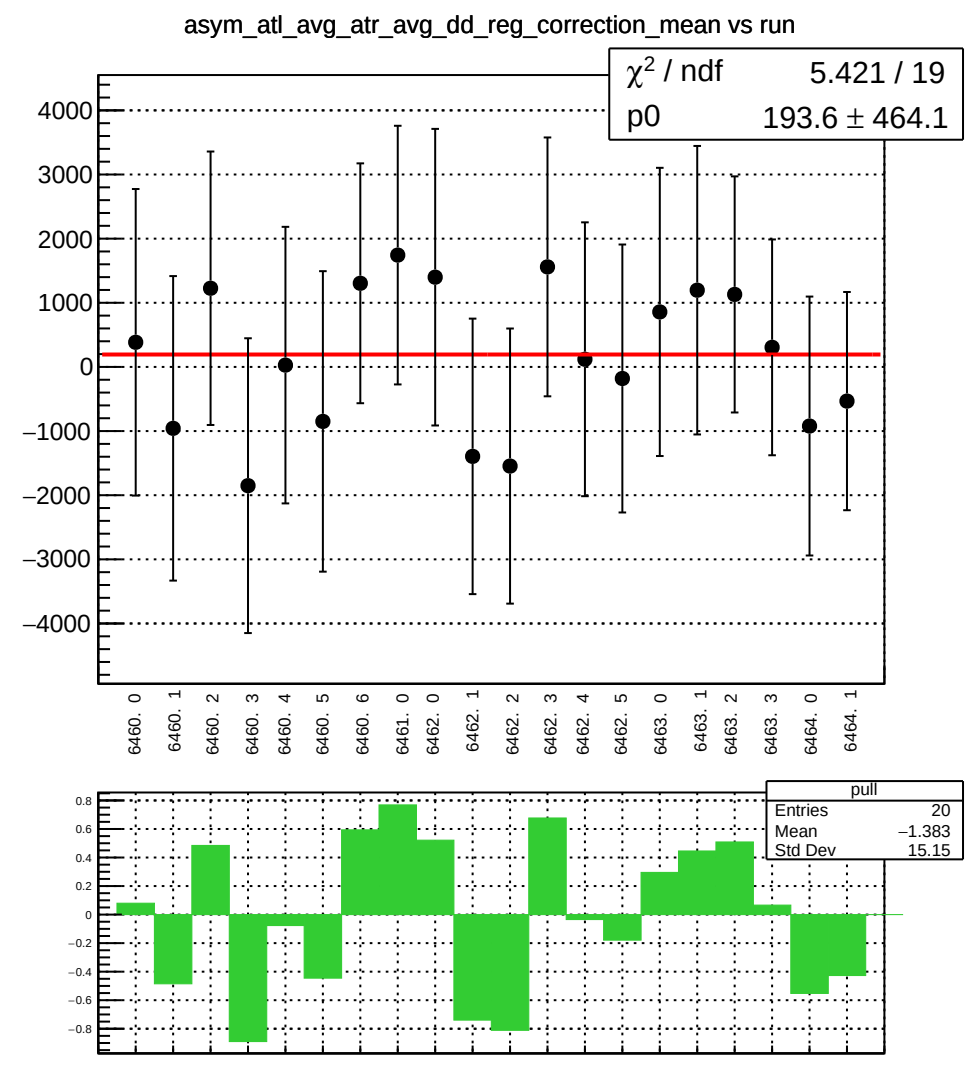

pull1D
Entries 20
Mean −0.08829
Std Dev 0.9401
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

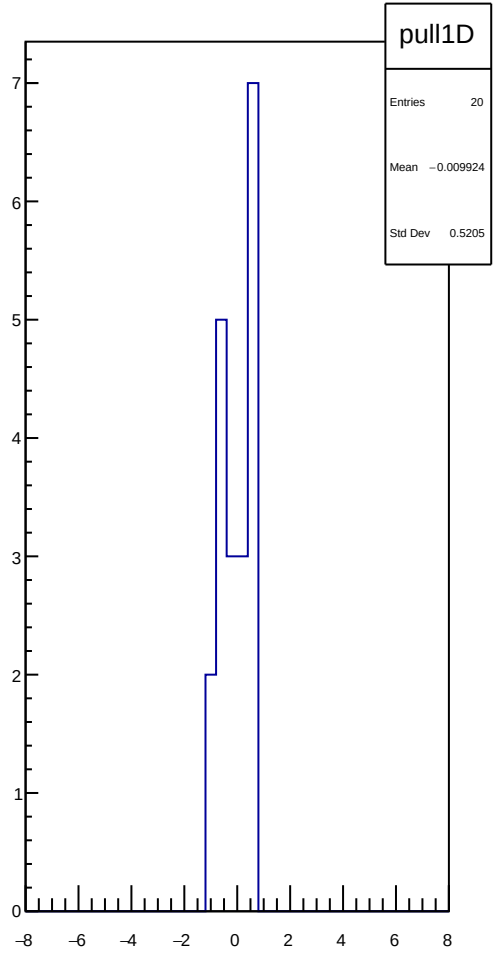

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.231e+05 / 19
p0 7.384e−11 ± 1.39e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

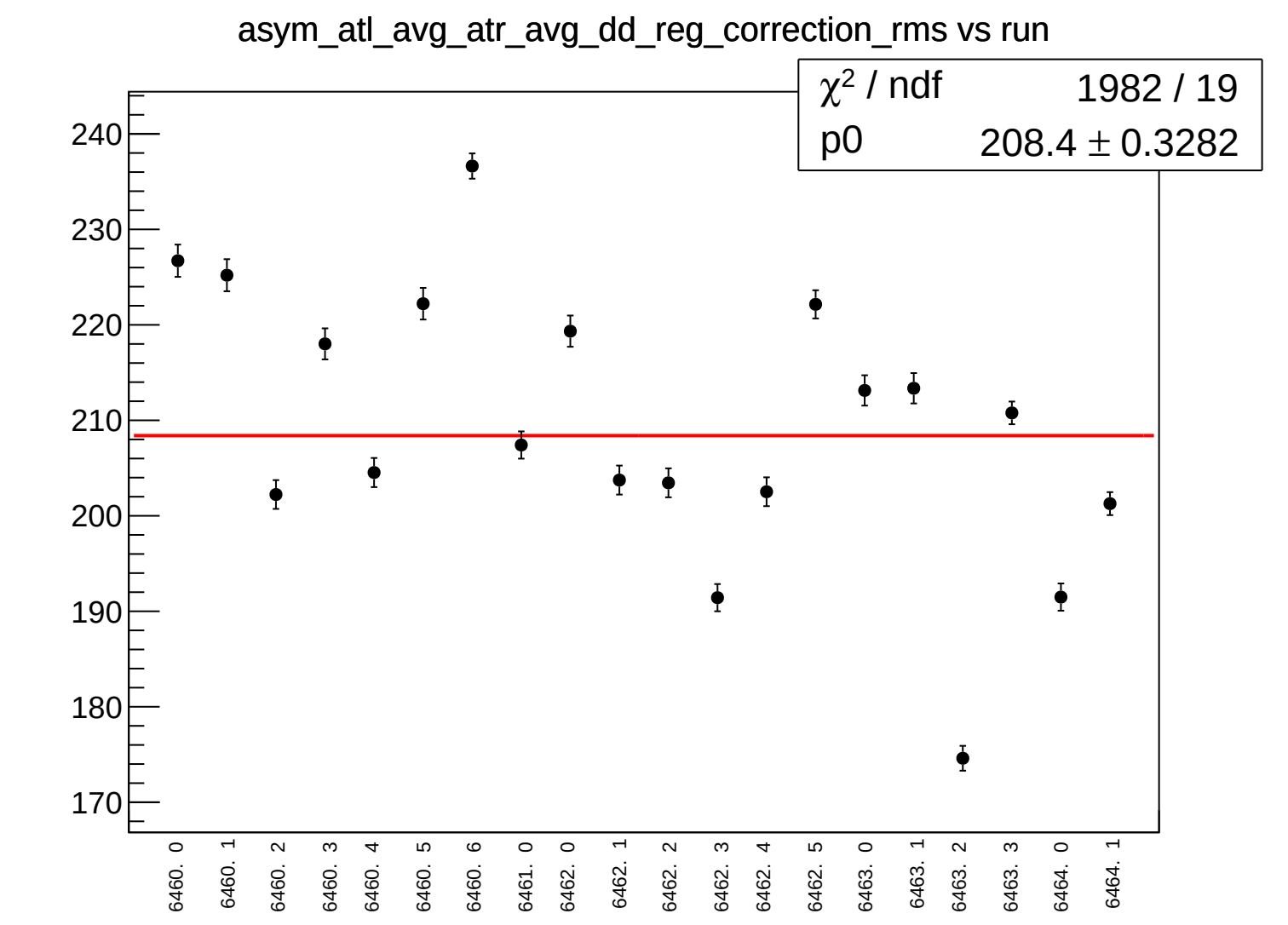

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 16.72 / 19
p0 −2181 ± 2851
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

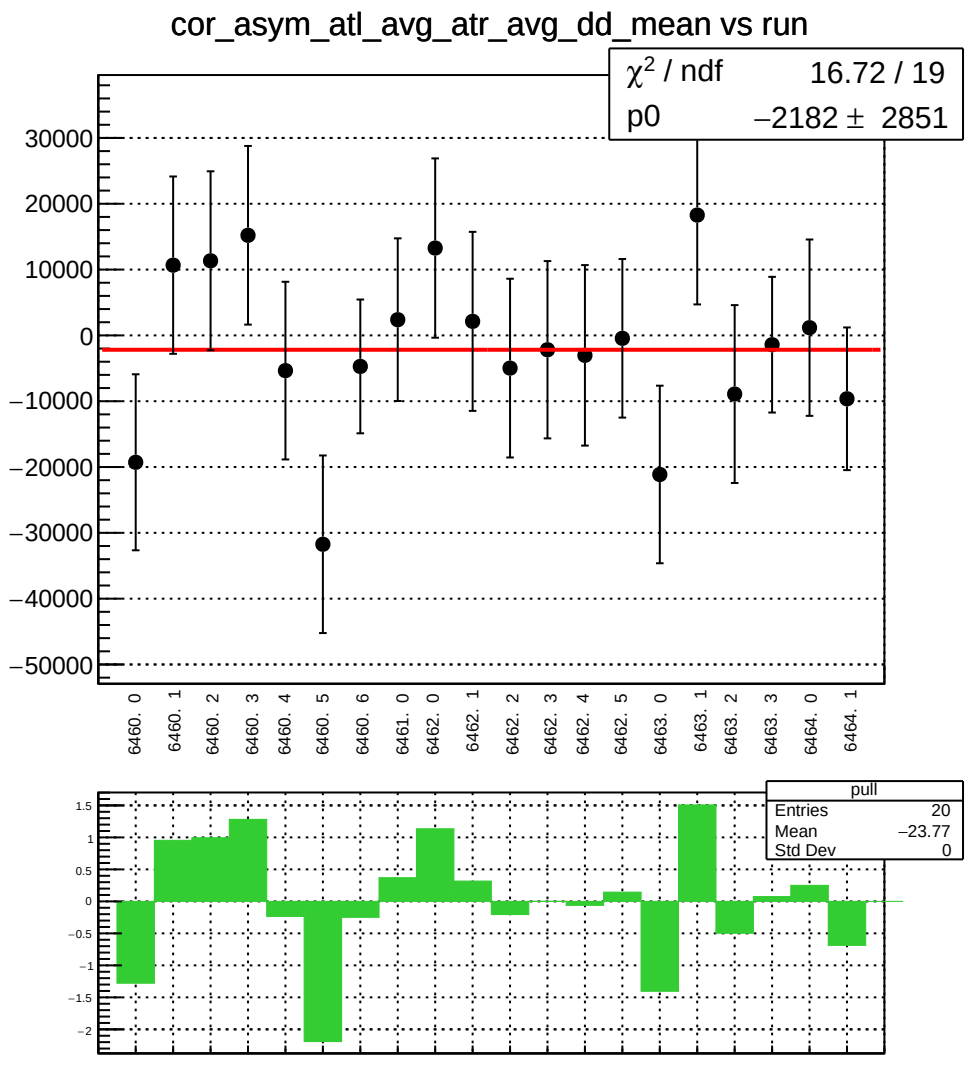

pull1D
Entries 20
Mean 0.01091
Std Dev 0.9142
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

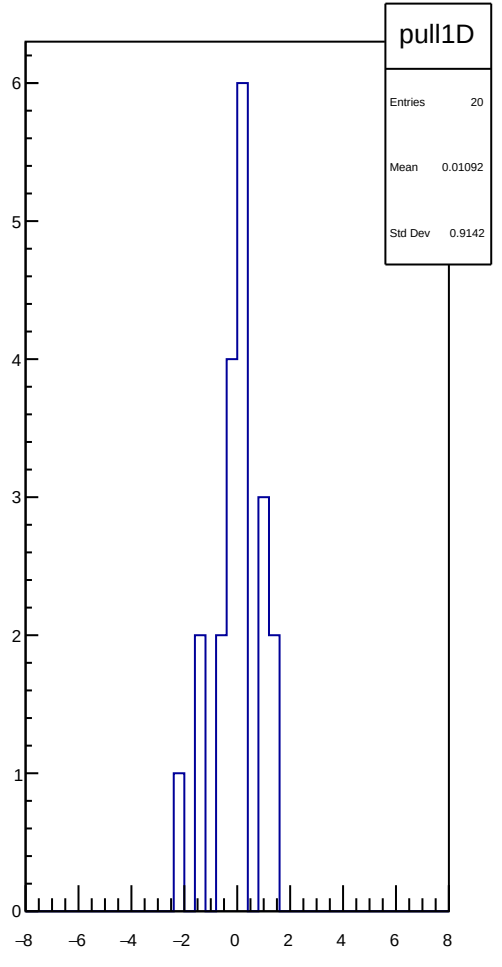

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 14.39 / 19
p0 1283 ± 2.016
1310
1300
1290
1280
1270
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

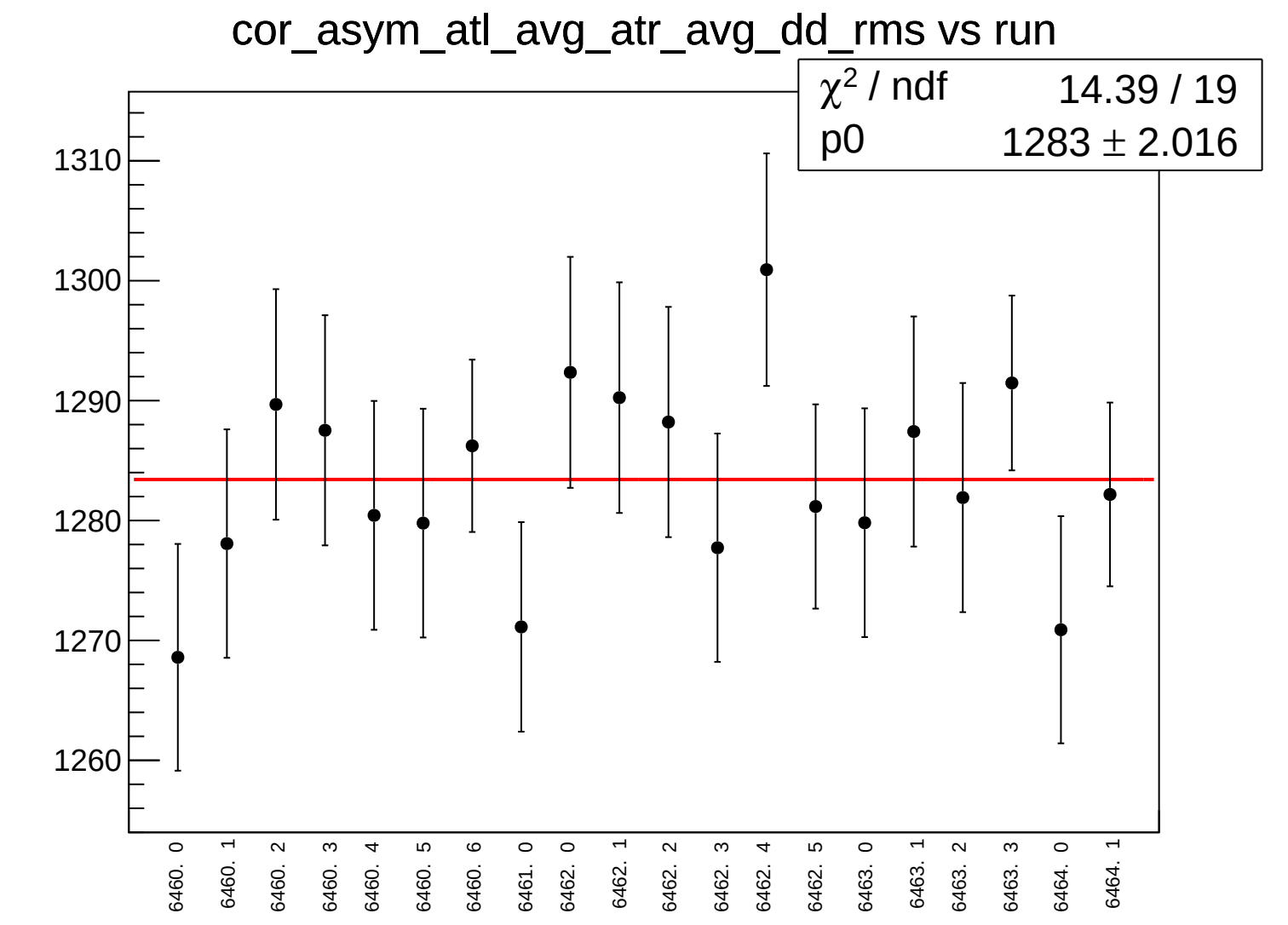

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 5.421 / 19
p0 193.6 ± 464.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.383
Std Dev 15.15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

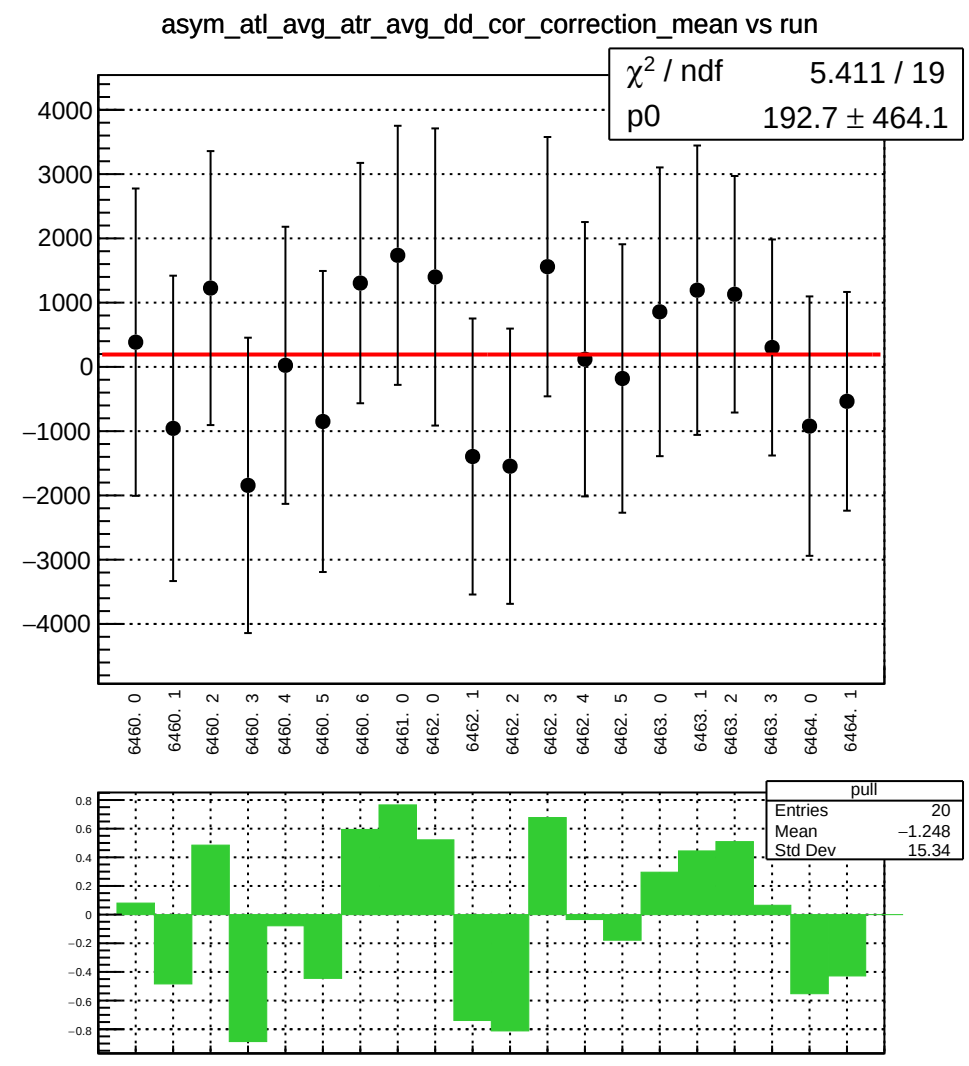

pull1D
Entries 20
Mean −0.009924
Std Dev 0.5205
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

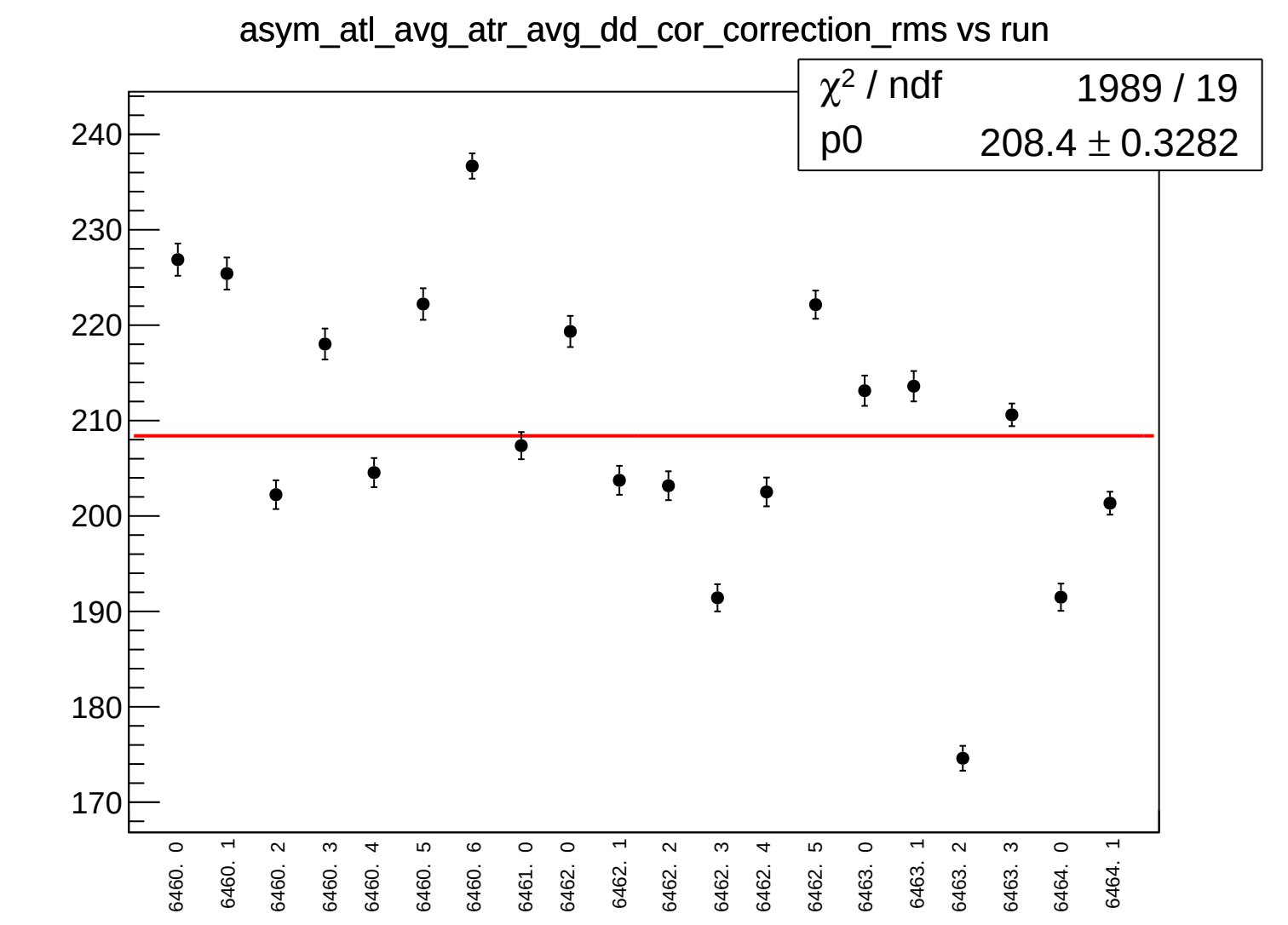

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1982 / 19
p0 208.4 ± 0.3282
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

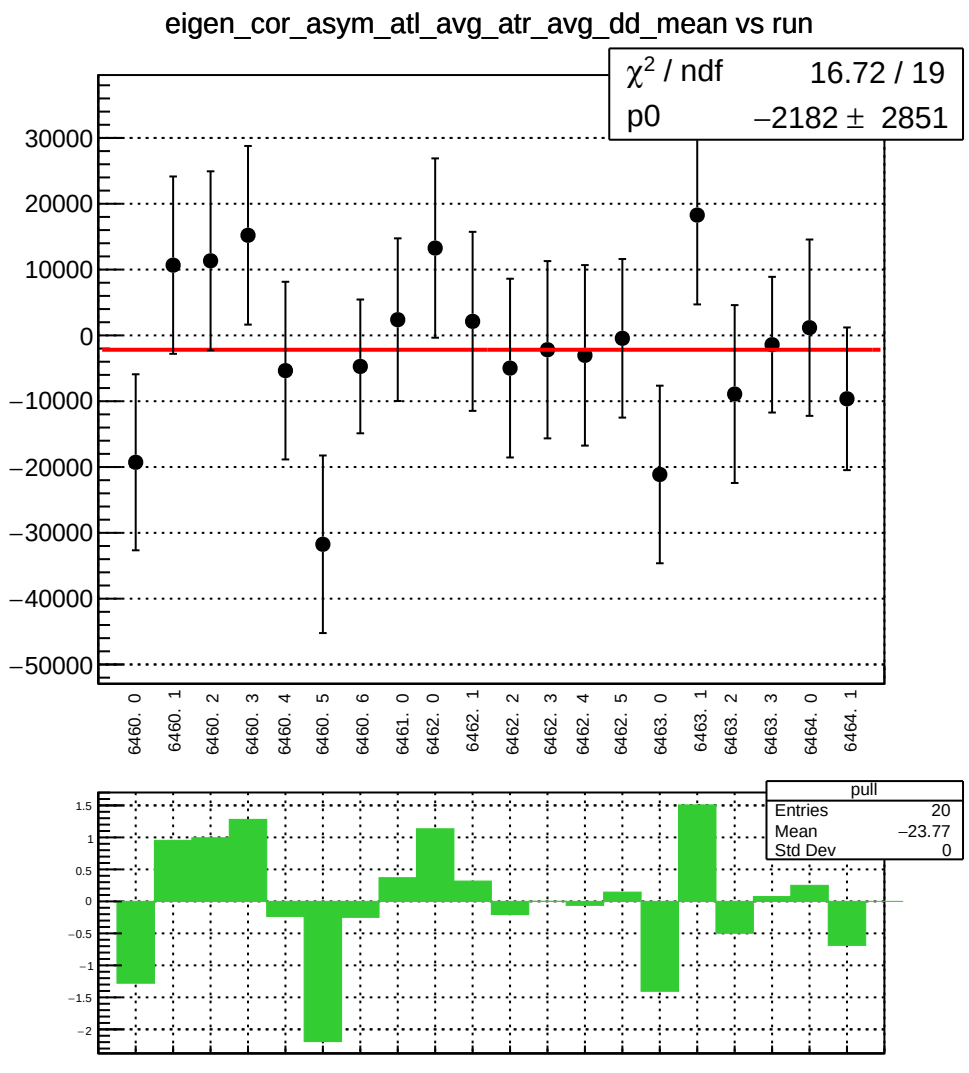

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 16.72 / 19
p0 −2182 ± 2851
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

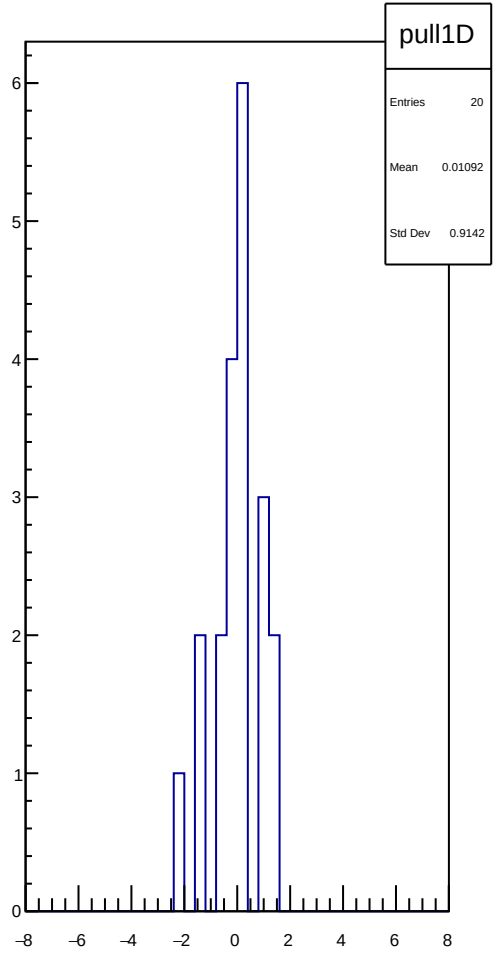

pull1D
Entries 20
Mean 0.01092
Std Dev 0.9142
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

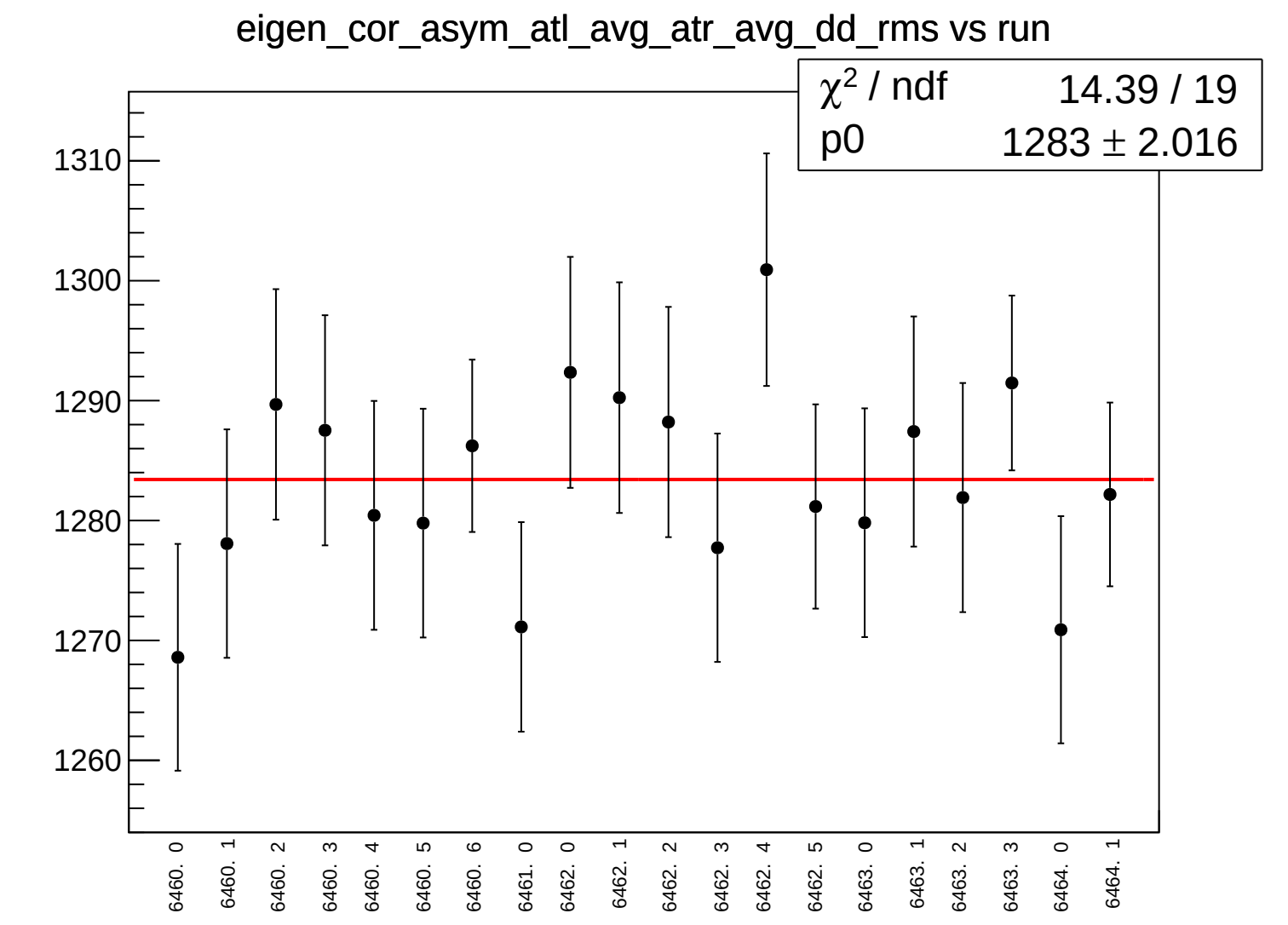

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 14.39 / 19
p0 1283 ± 2.016
1310
1300
1290
1280
1270
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

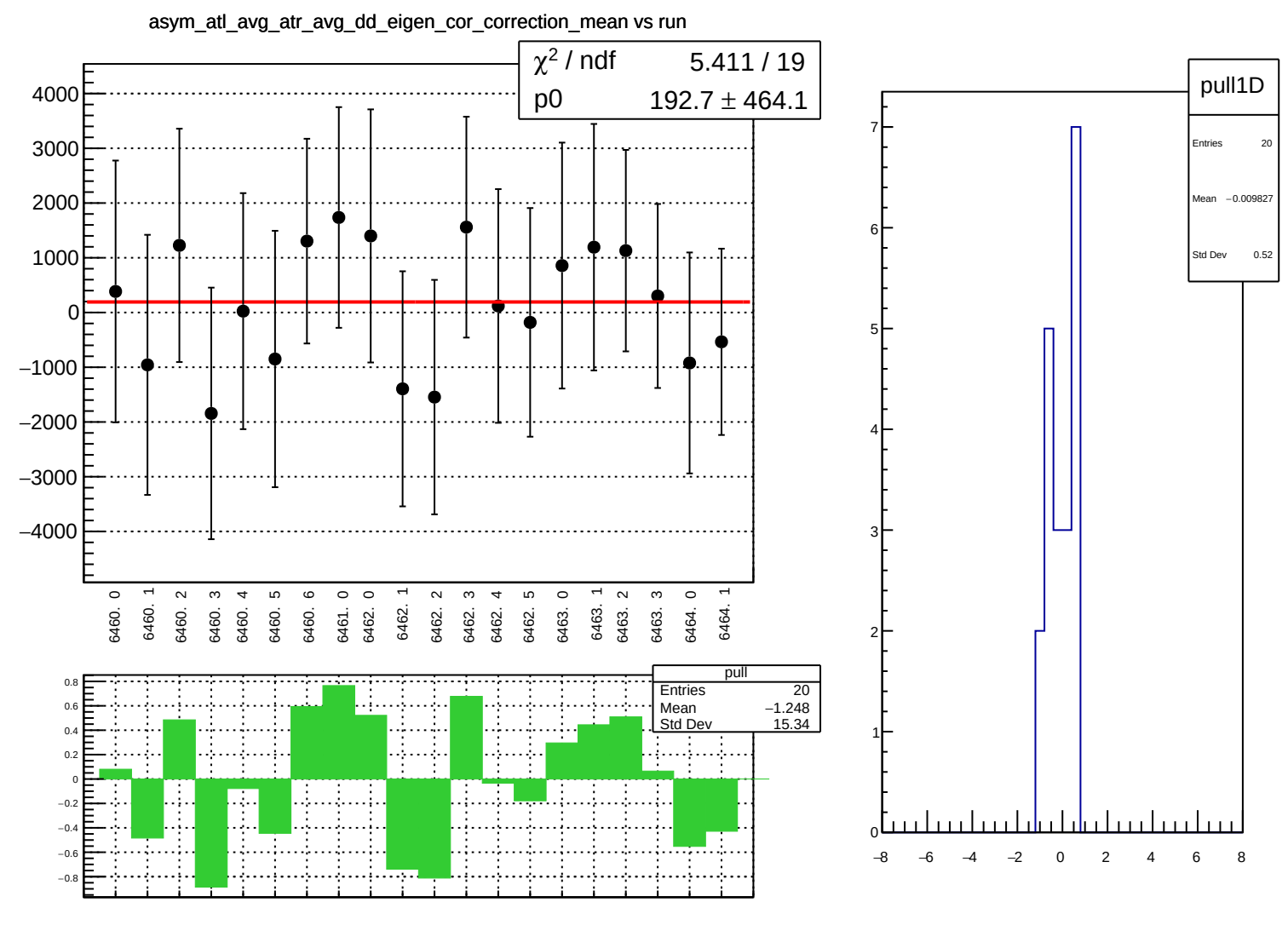

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 5.411 / 19
p0 192.7 ± 464.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.248
Std Dev 15.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.009827
Std Dev 0.52
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

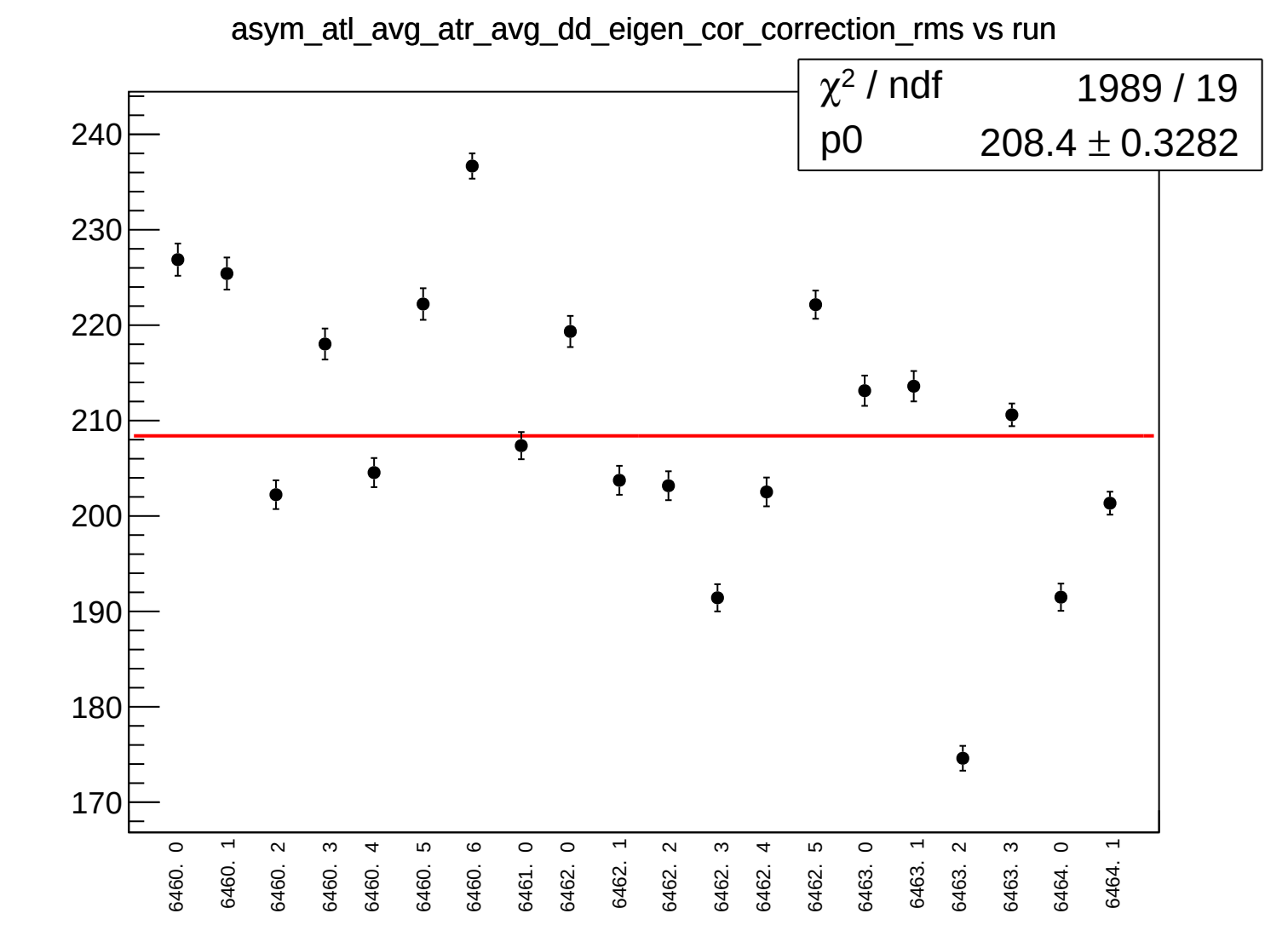

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1989 / 19
p0 208.4 ± 0.3282
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

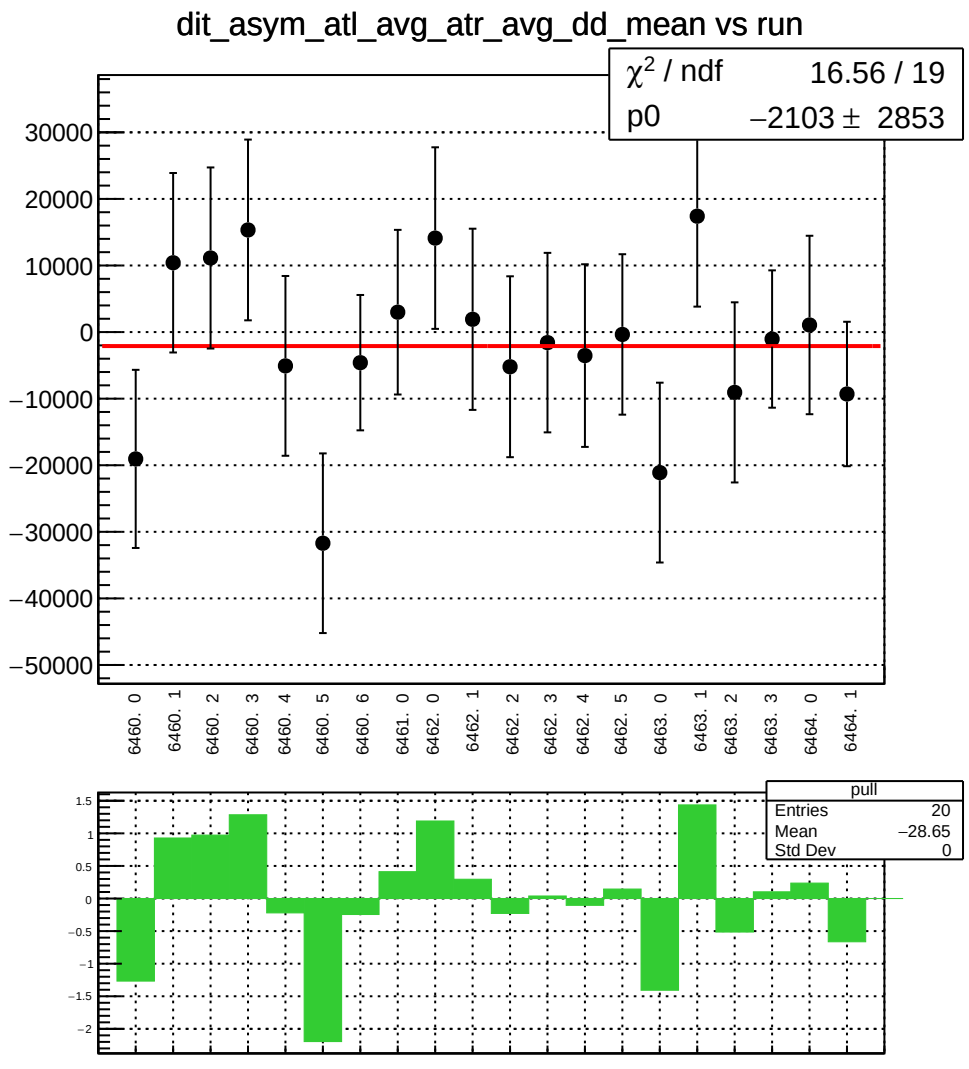

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 16.72 / 19
p0 −2182 ± 2851
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

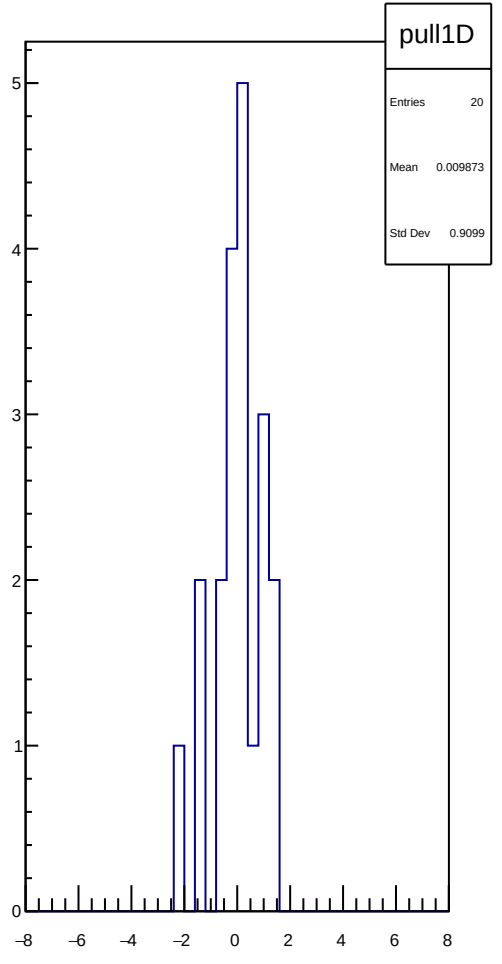

pull1D
Entries 20
Mean 0.01092
Std Dev 0.9142
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

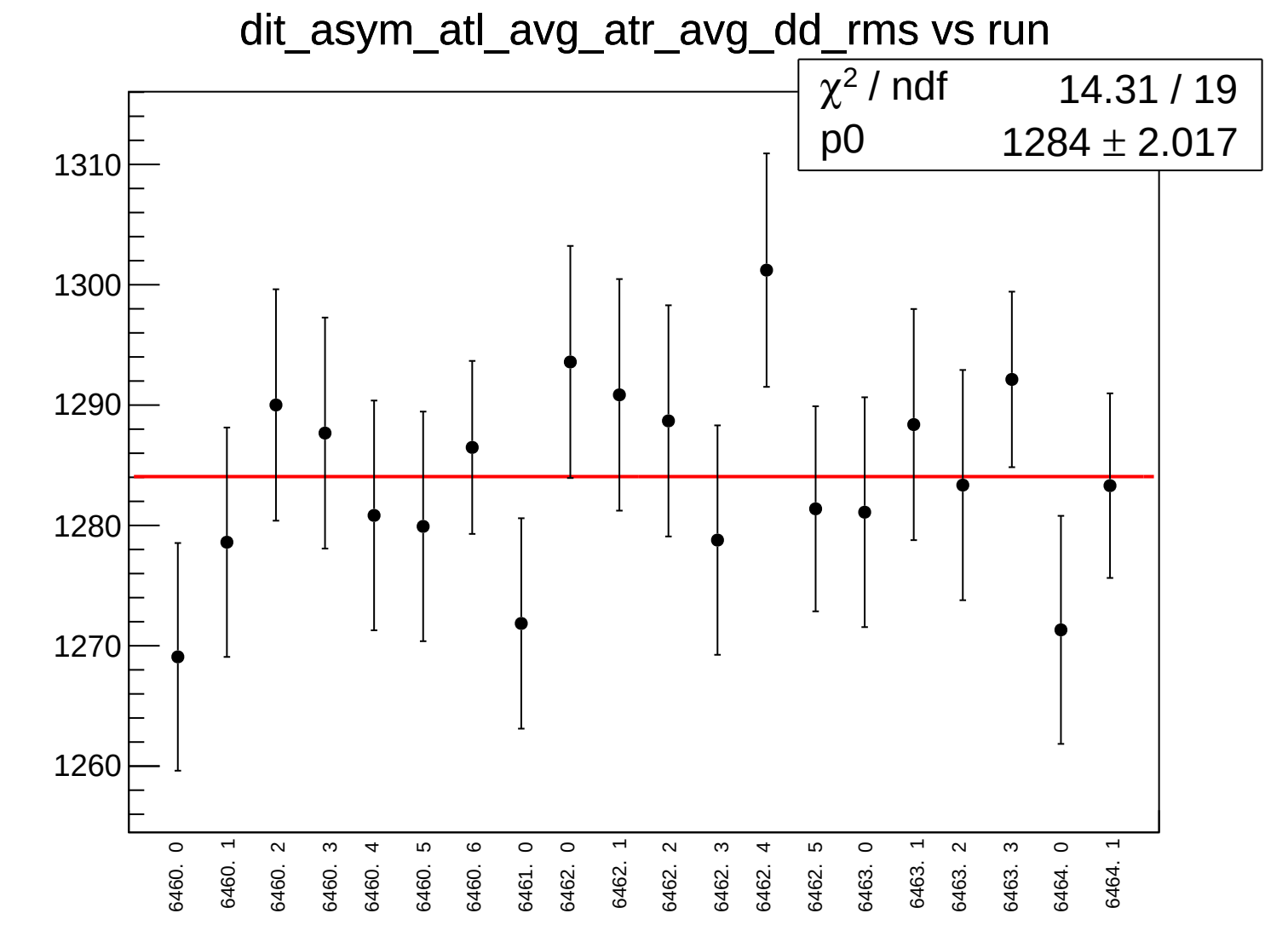

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 14.39 / 19
p0 1283 ± 2.016
1310
1300
1290
1280
1270
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

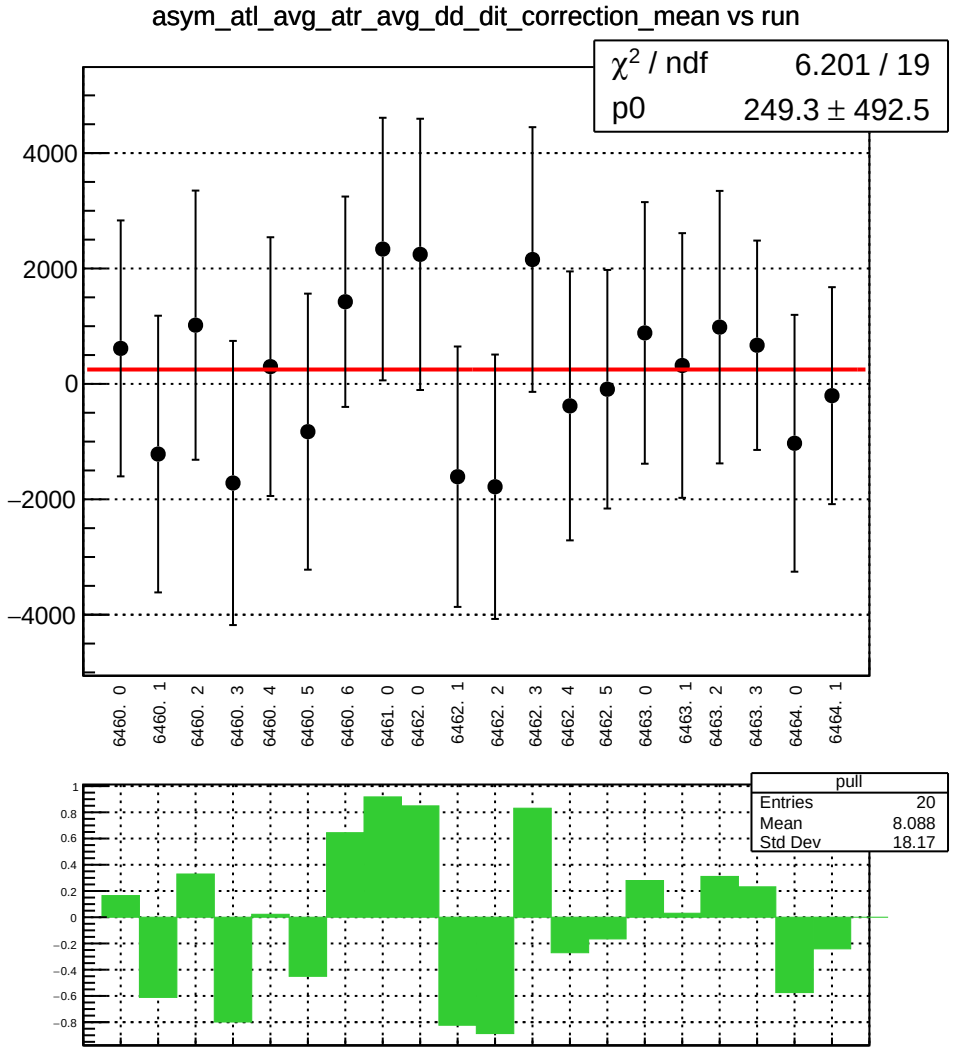

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 5.411 / 19
p0 192.7 ± 464.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.248
Std Dev 15.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.009827
Std Dev 0.52
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

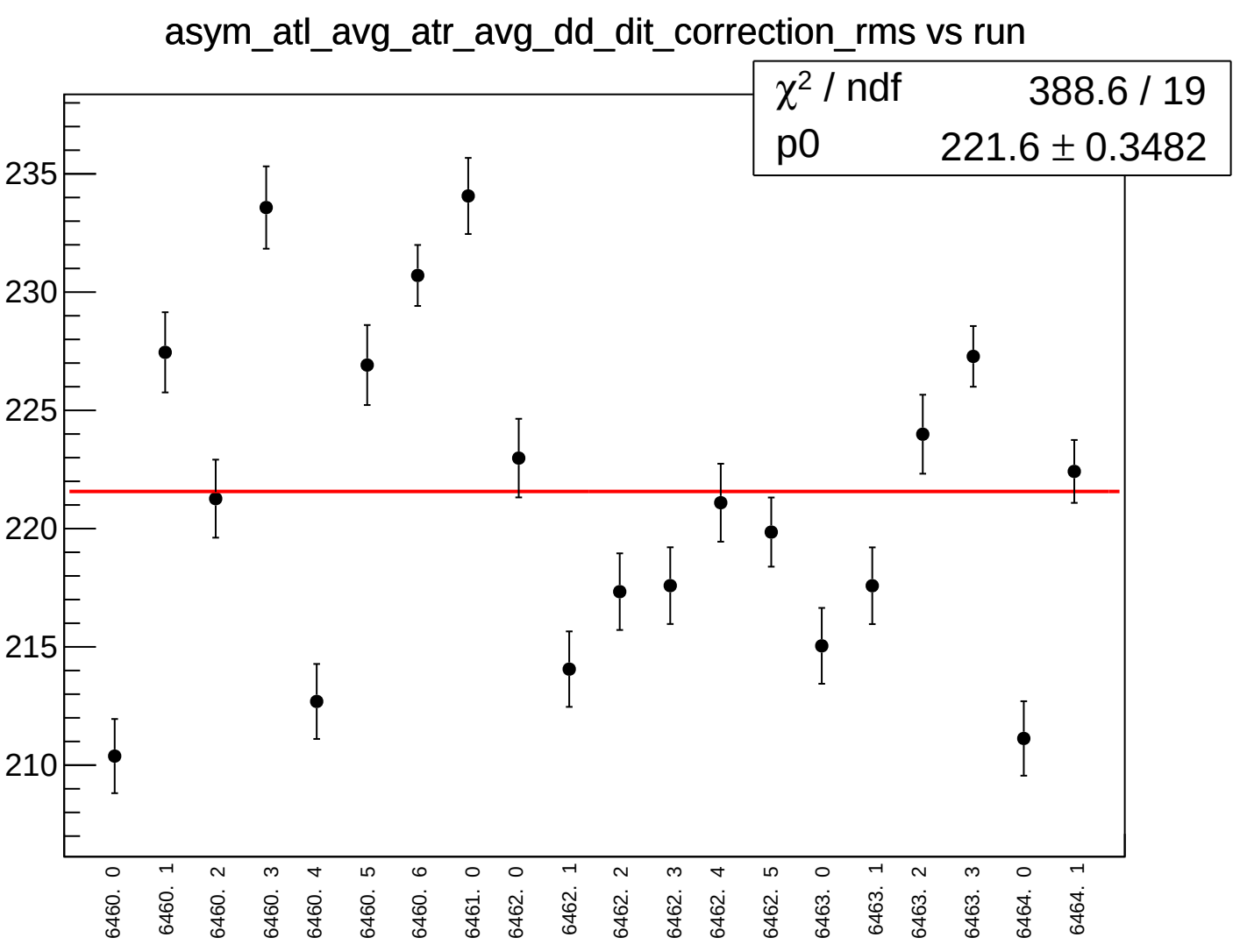

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1989 / 19
p0 208.4 ± 0.3282
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

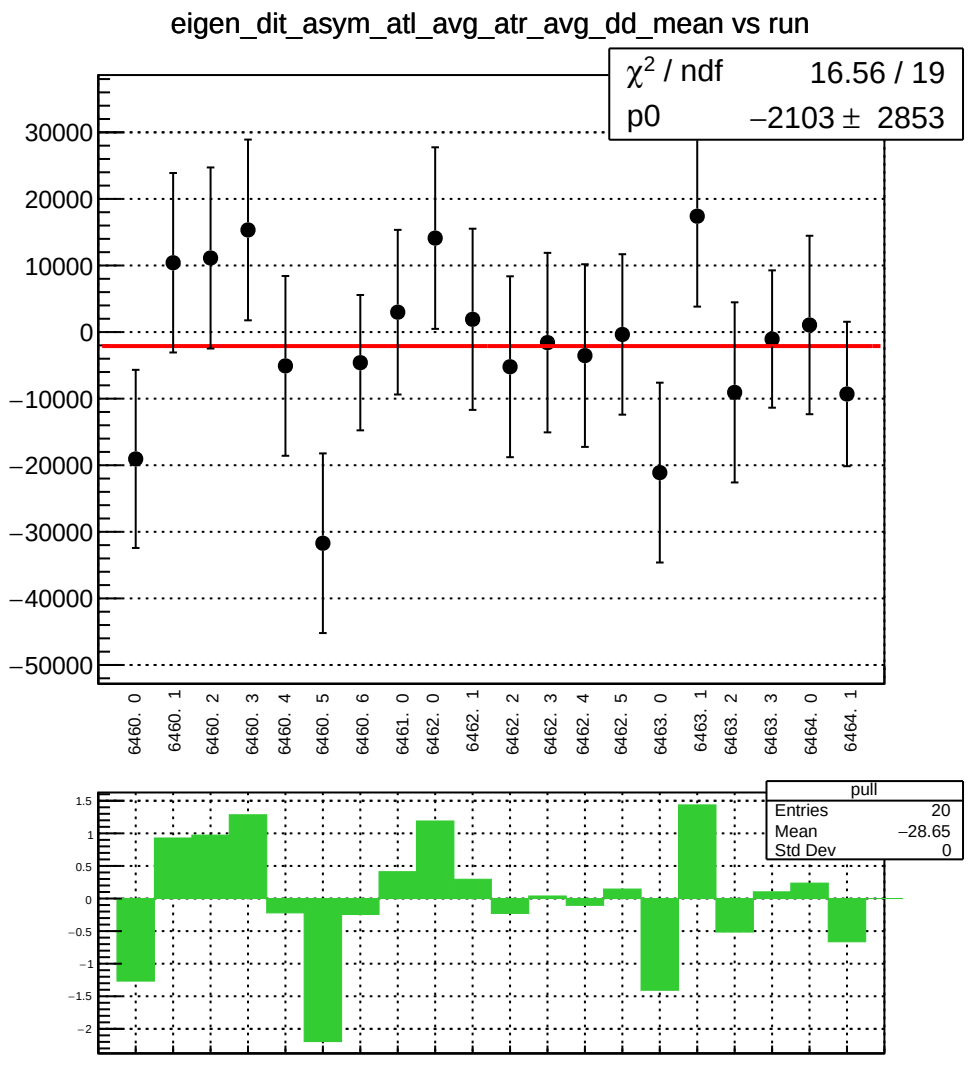

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 16.56 / 19
p0 −2103 ± 2853
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −28.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

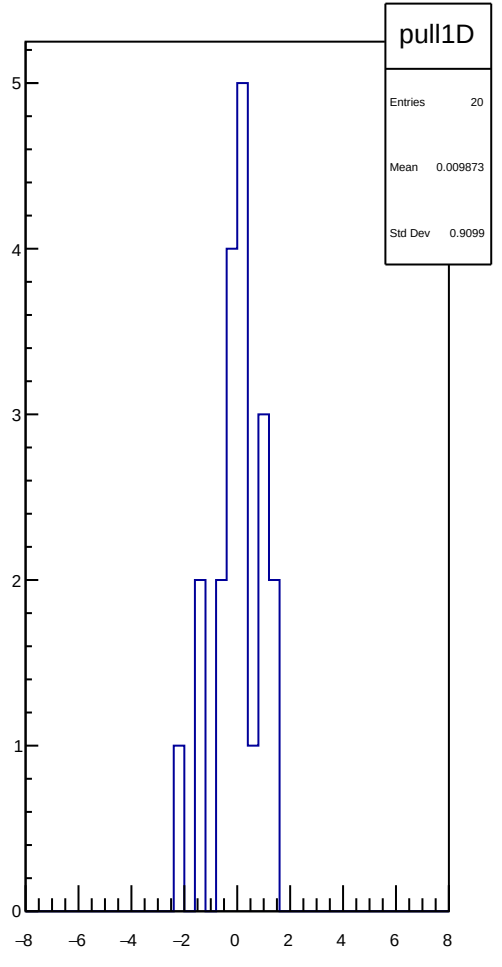

pull1D
Entries 20
Mean 0.009873
Std Dev 0.9099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

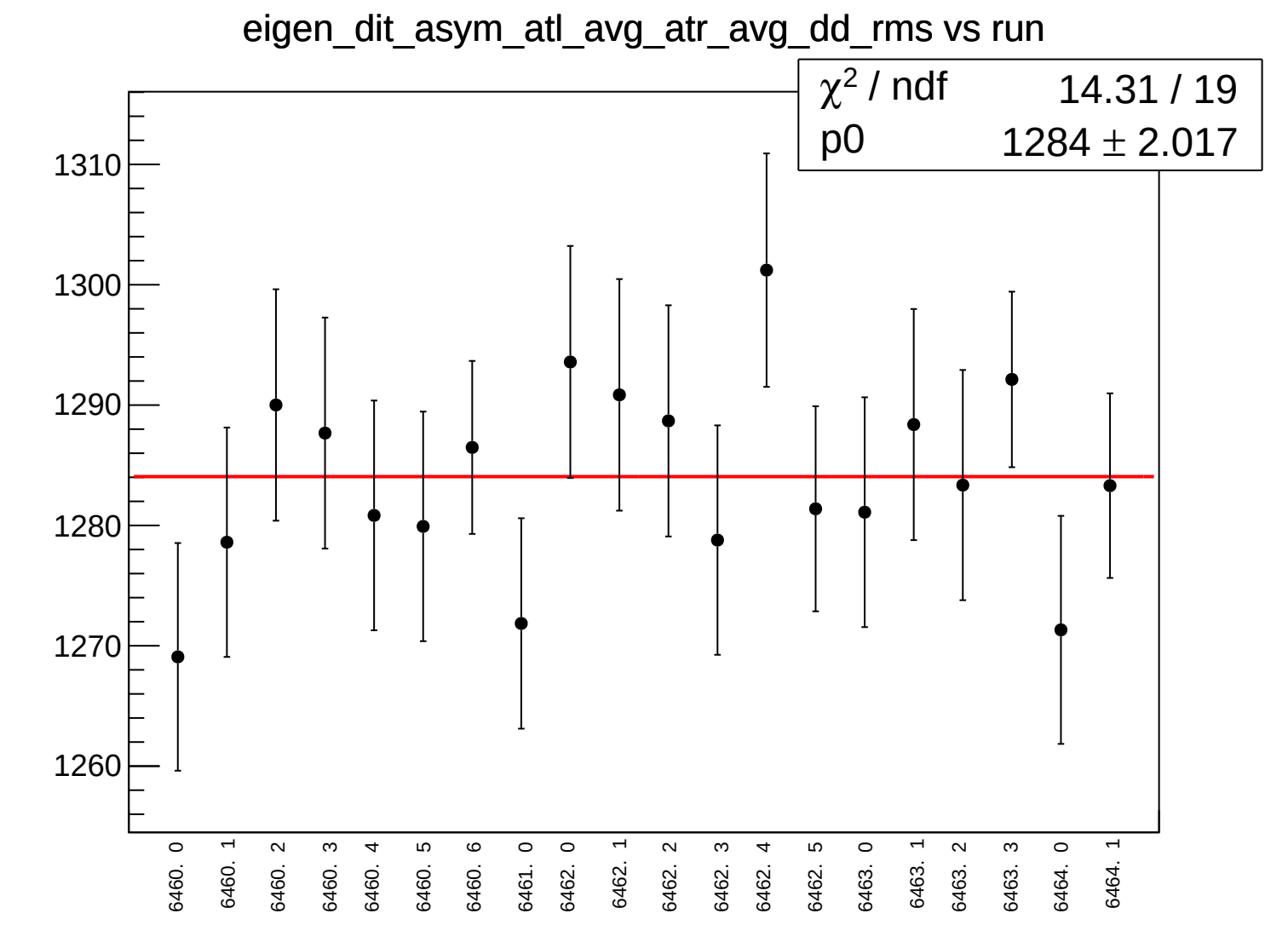

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 14.31 / 19
p0 1284 ± 2.017
1310
1300
1290
1280
1270
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

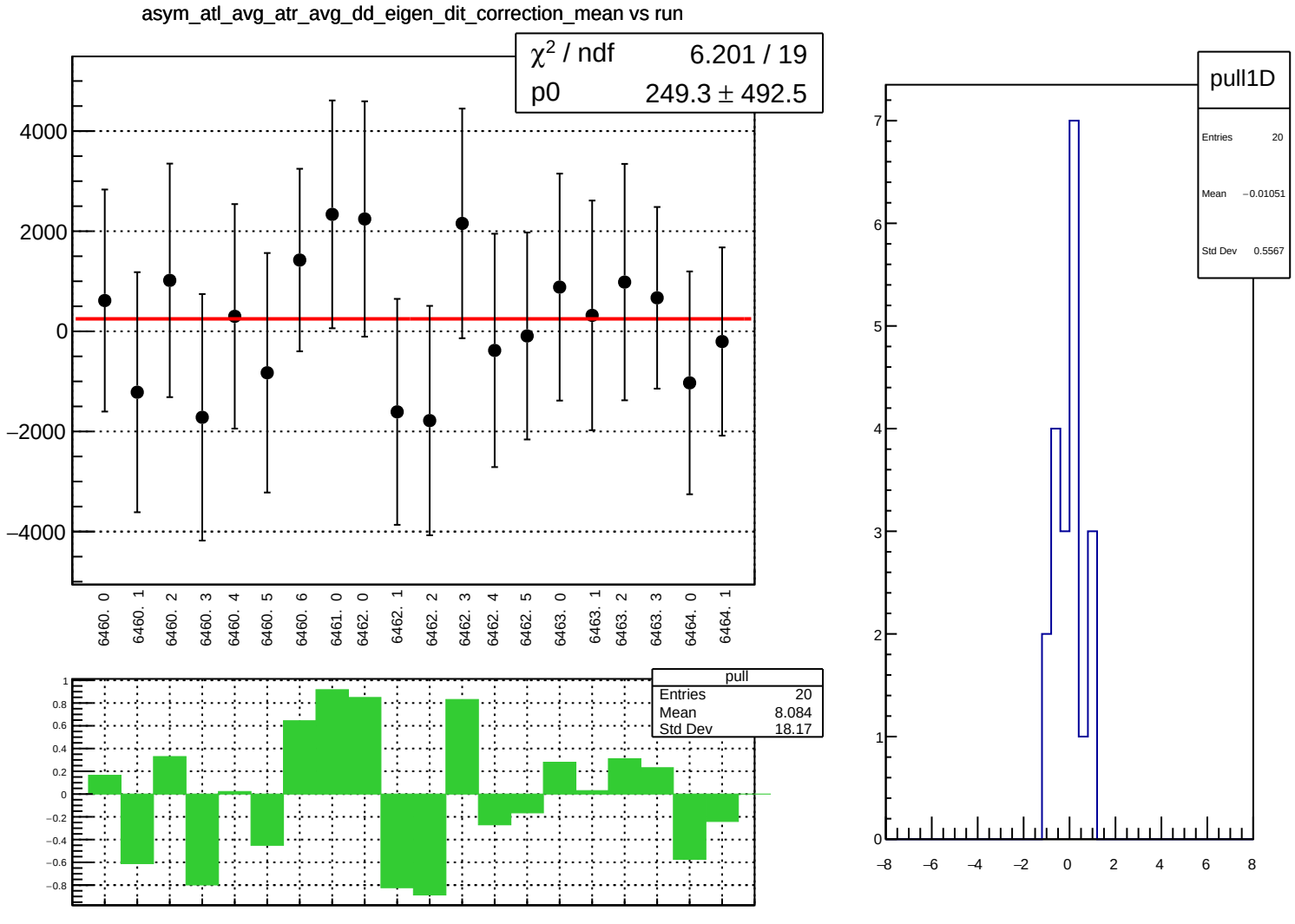

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 6.201 / 19
p0 249.3 ± 492.5
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.088
Std Dev 18.17
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.01051
Std Dev 0.5567
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

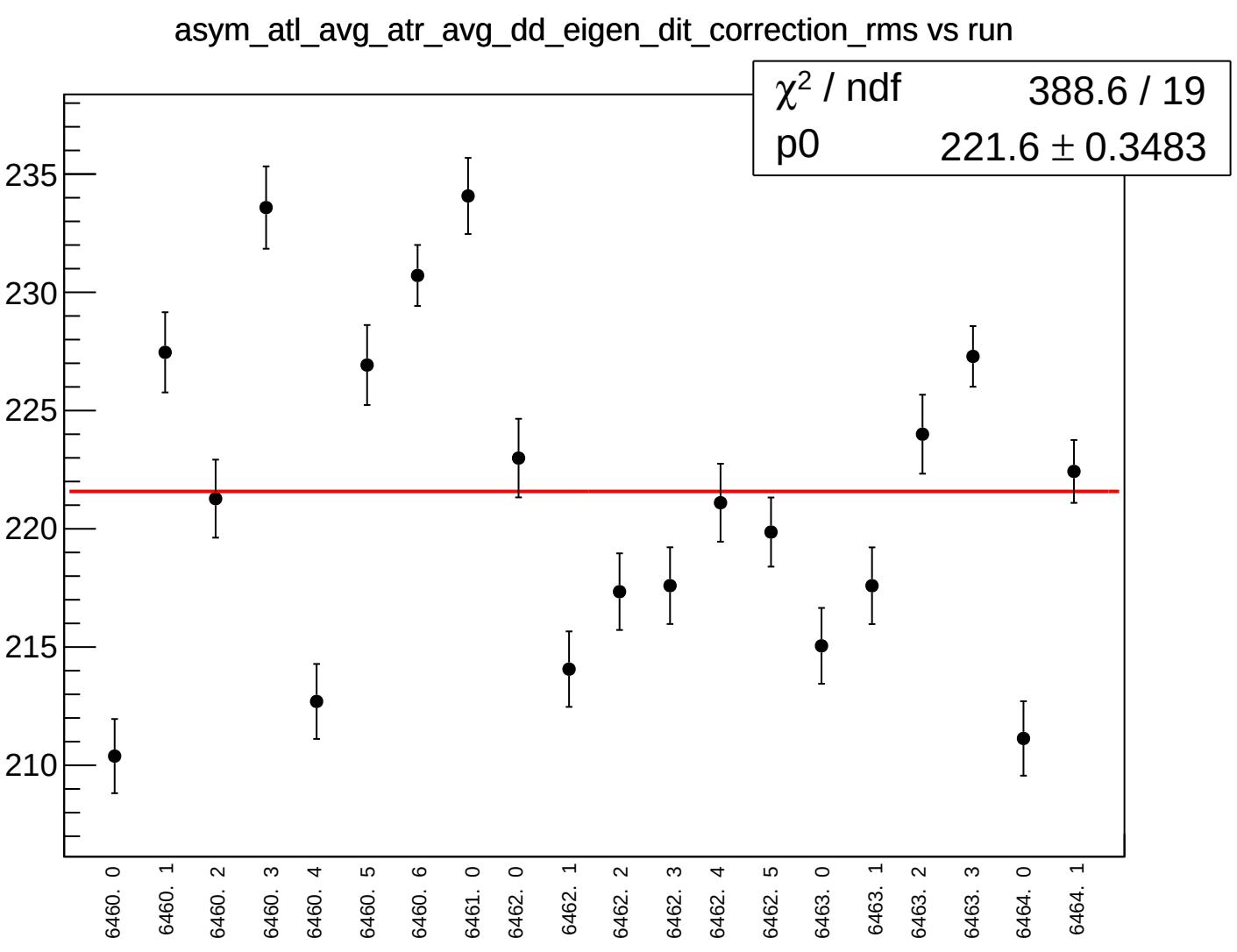

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 388.6 / 19
p0 221.6 ± 0.3482
235
230
225
220
215
210
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

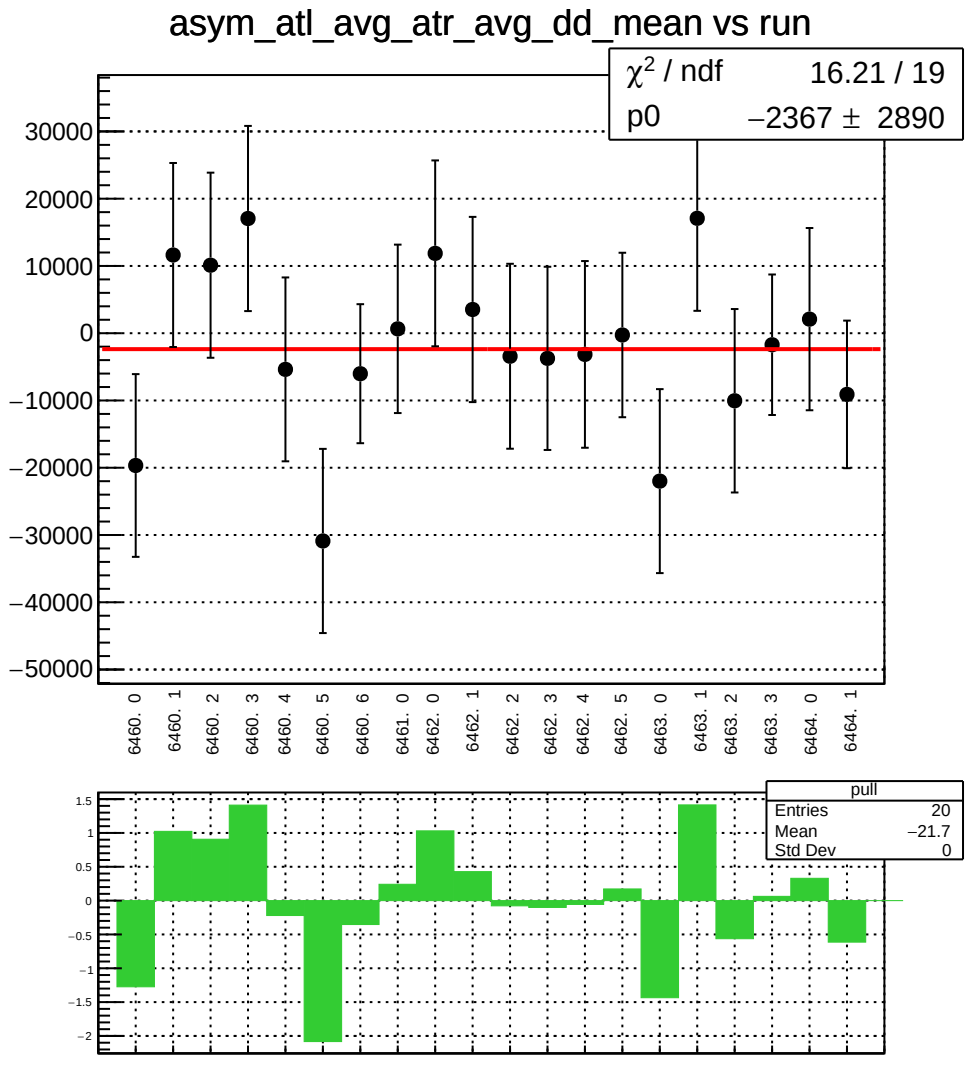

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 16.56 / 19
p0 −2103 ± 2853
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −28.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

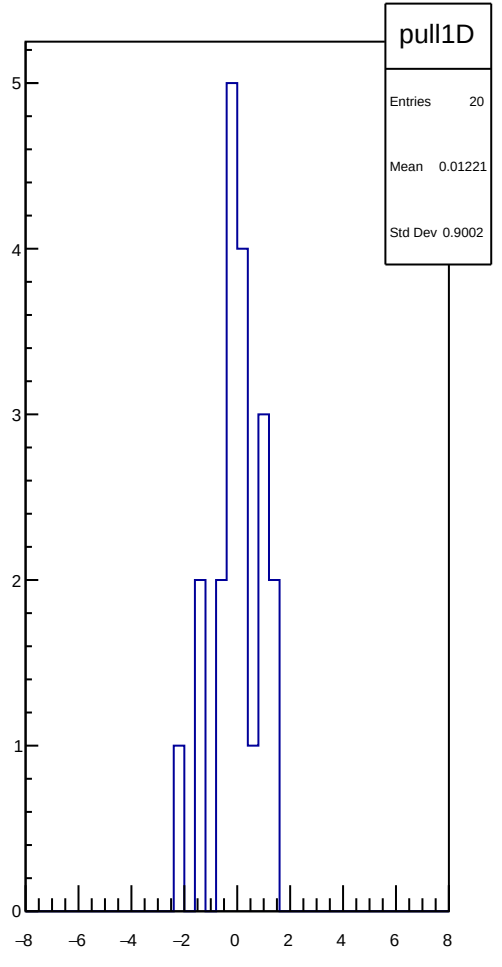

pull1D
Entries 20
Mean 0.009873
Std Dev 0.9099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

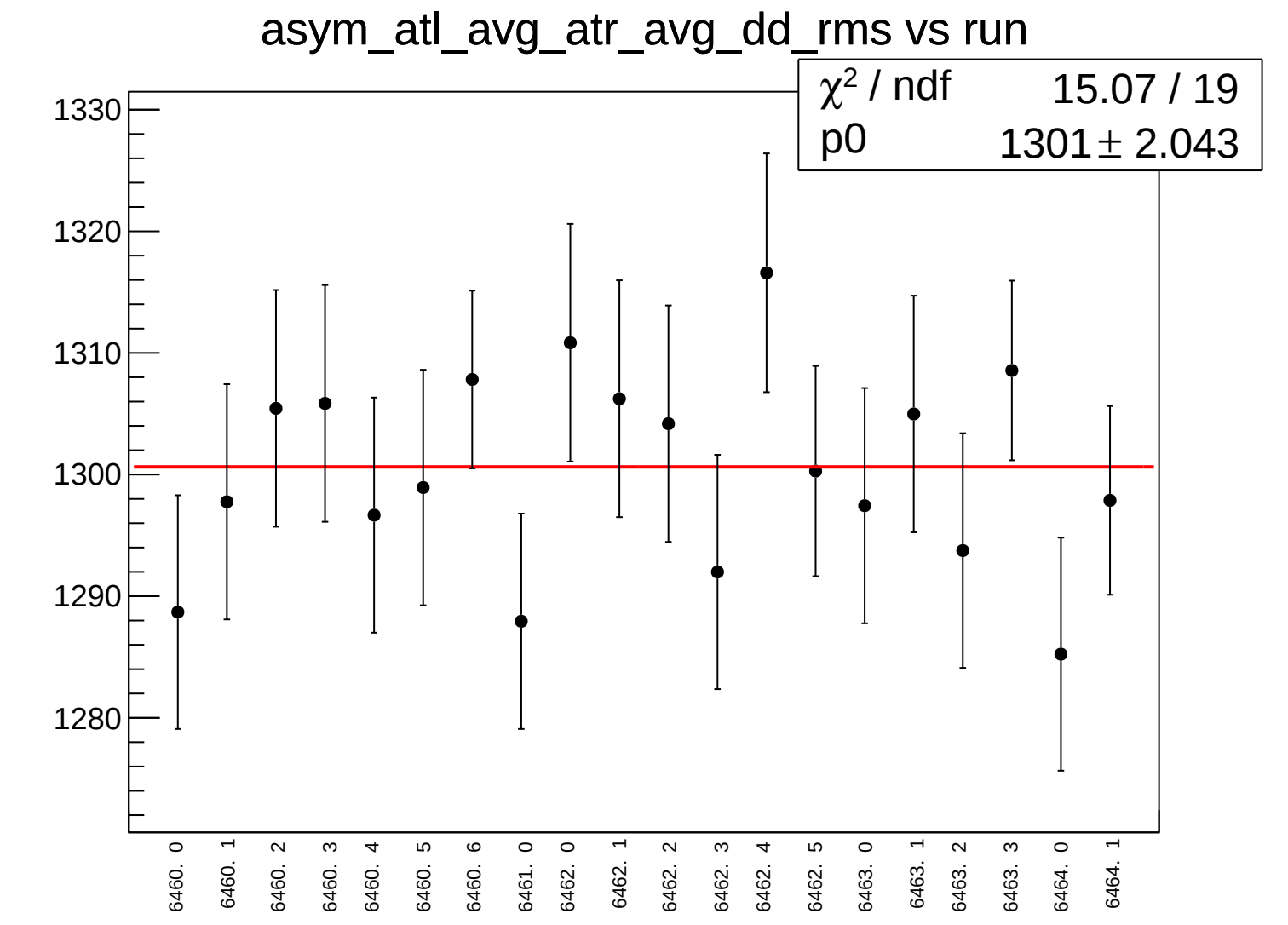

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 14.31 / 19
p0 1284 ± 2.017
1310
1300
1290
1280
1270
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

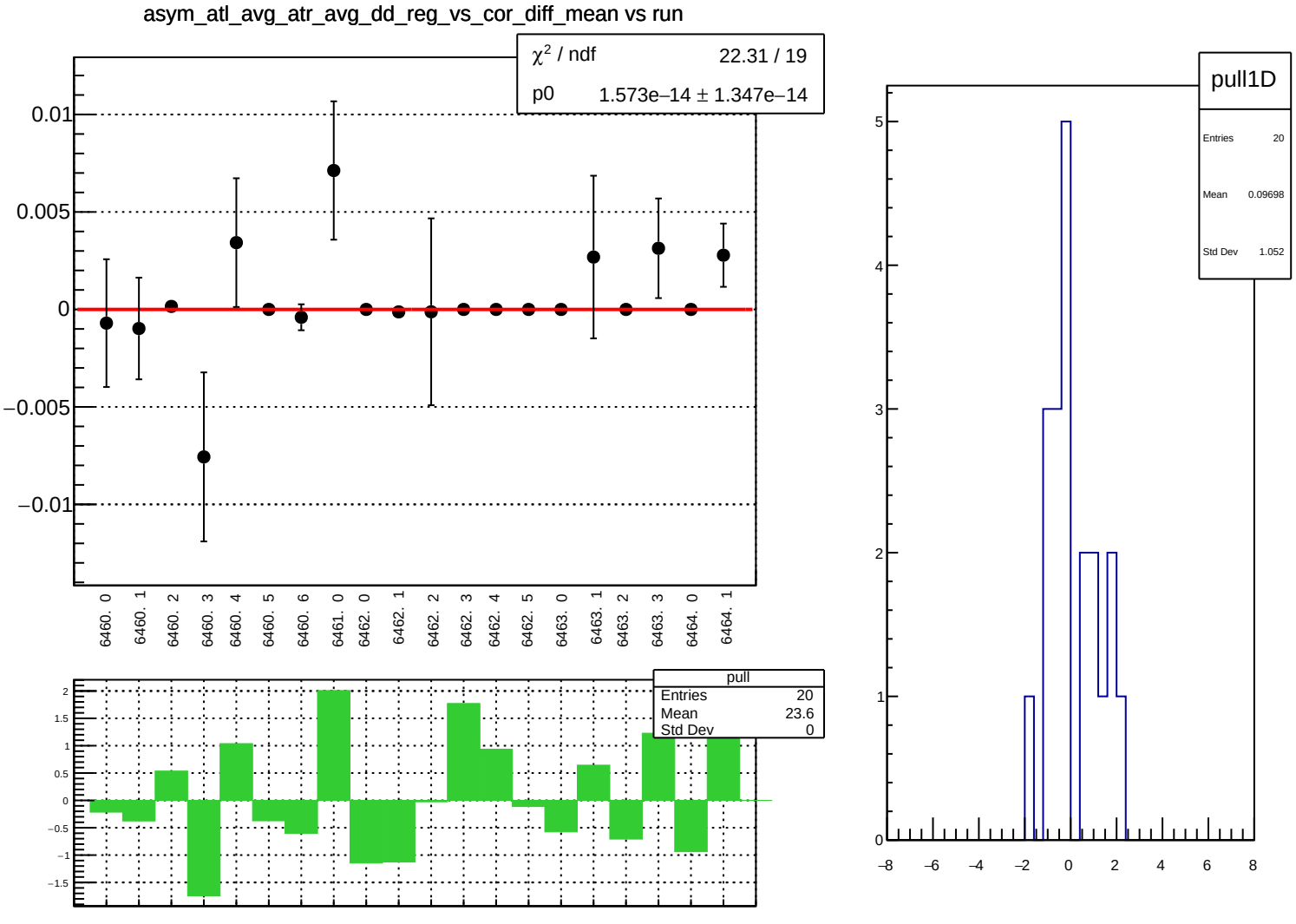

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 6.201 / 19
p0 249.3 ± 492.5
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.084
Std Dev 18.17
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.01051
Std Dev 0.5567
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

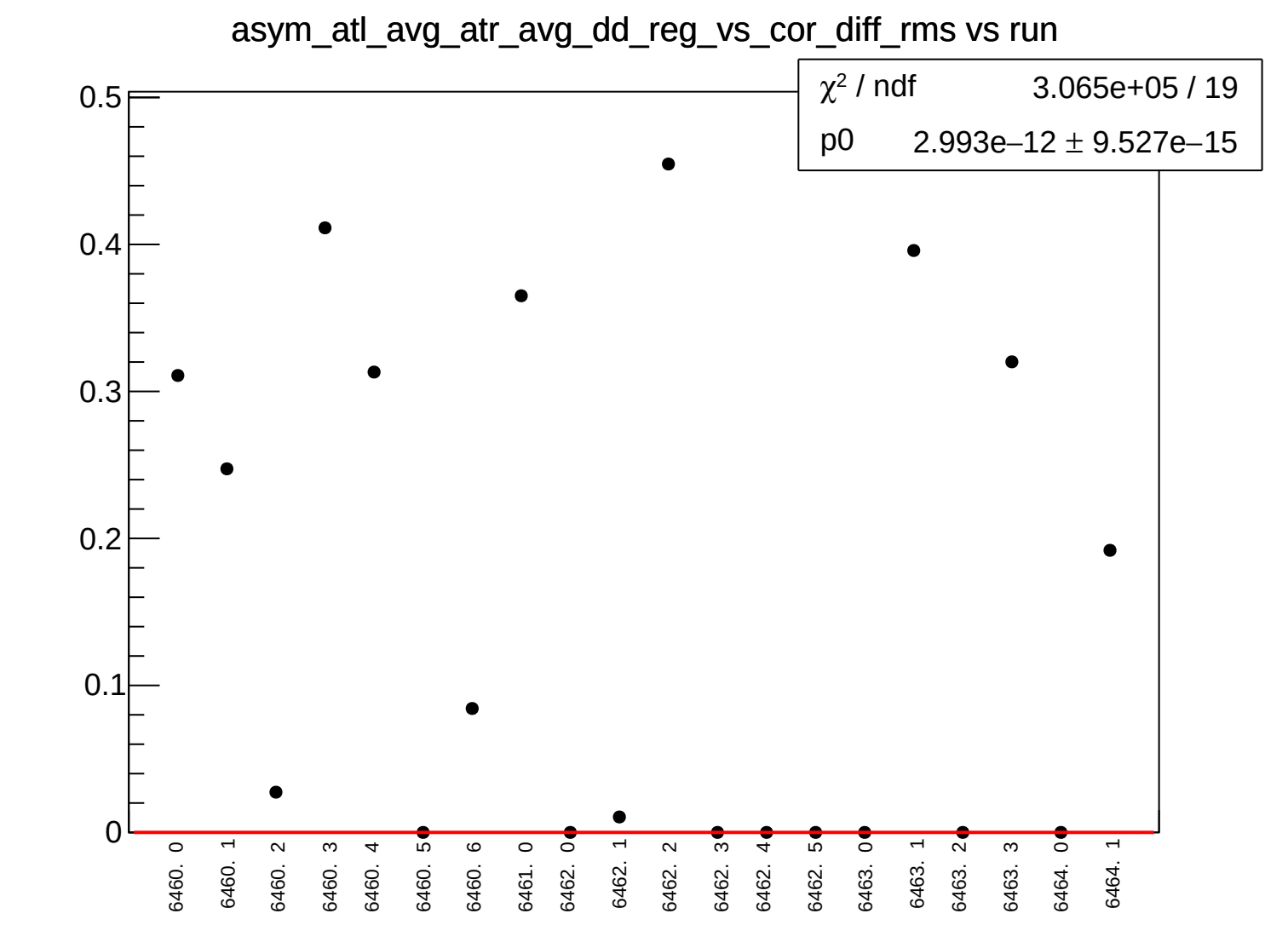

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 388.6 / 19
p0 221.6 ± 0.3483
235
230
225
220
215
210
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

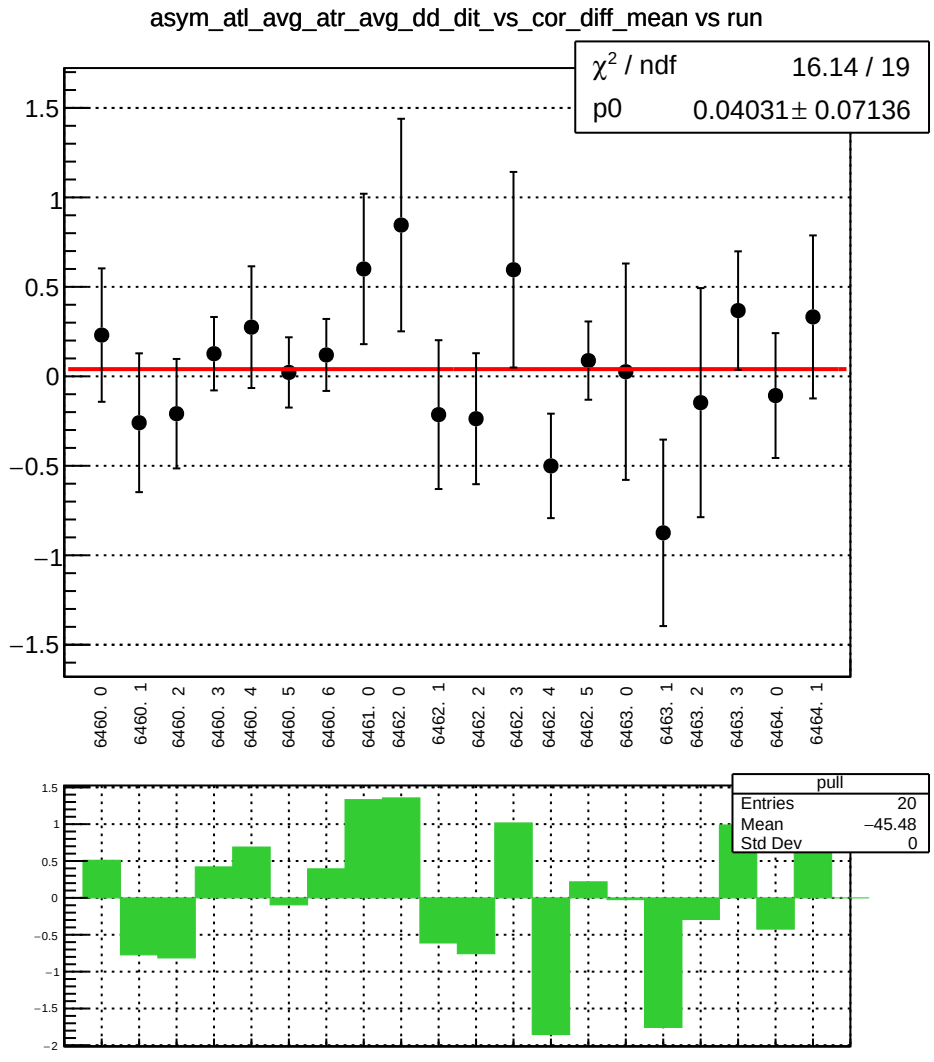

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 16.21 / 19
p0 −2367 ± 2890
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −21.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

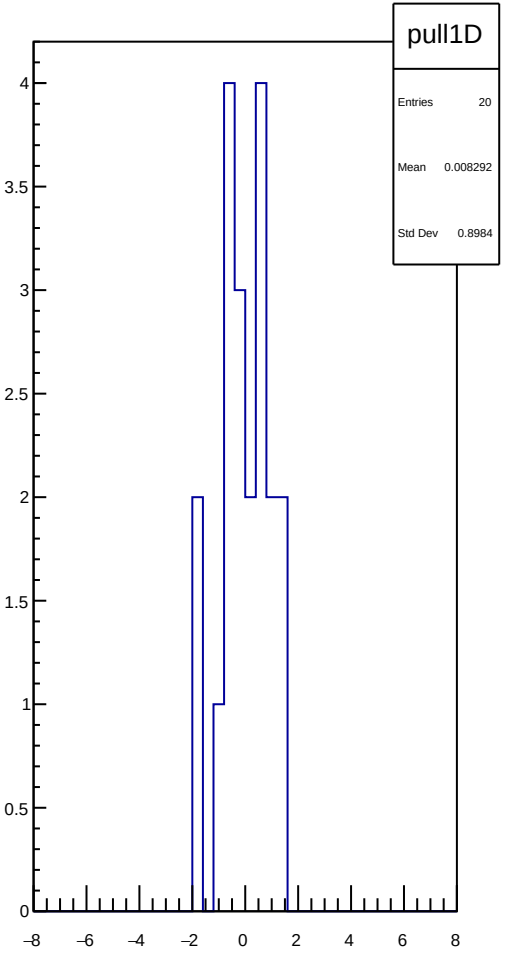

pull1D
Entries 20
Mean 0.01221
Std Dev 0.9002
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

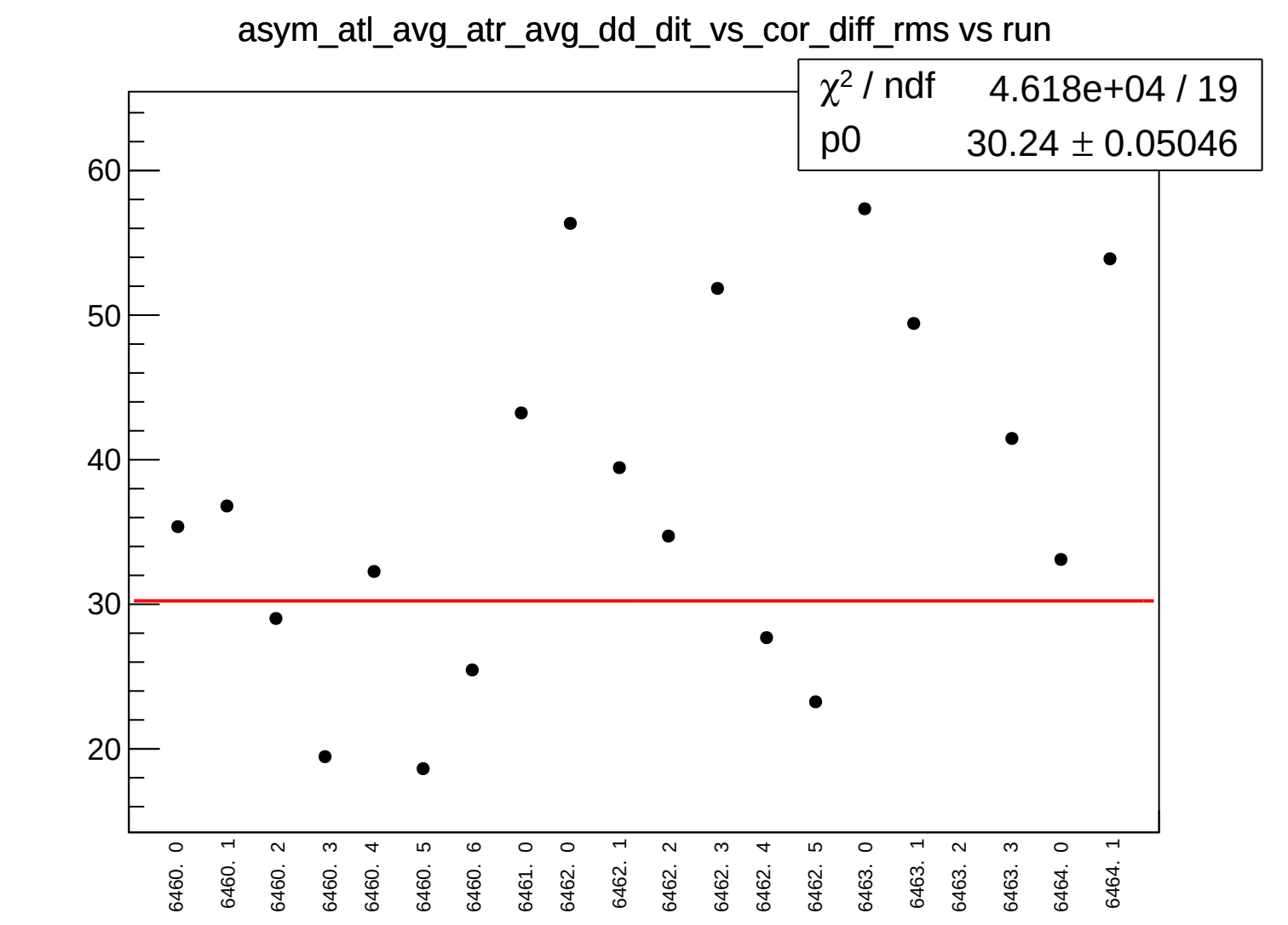

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 15.07 / 19
p0 1301 ± 2.043
1330
1320
1310
1300
1290
1280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

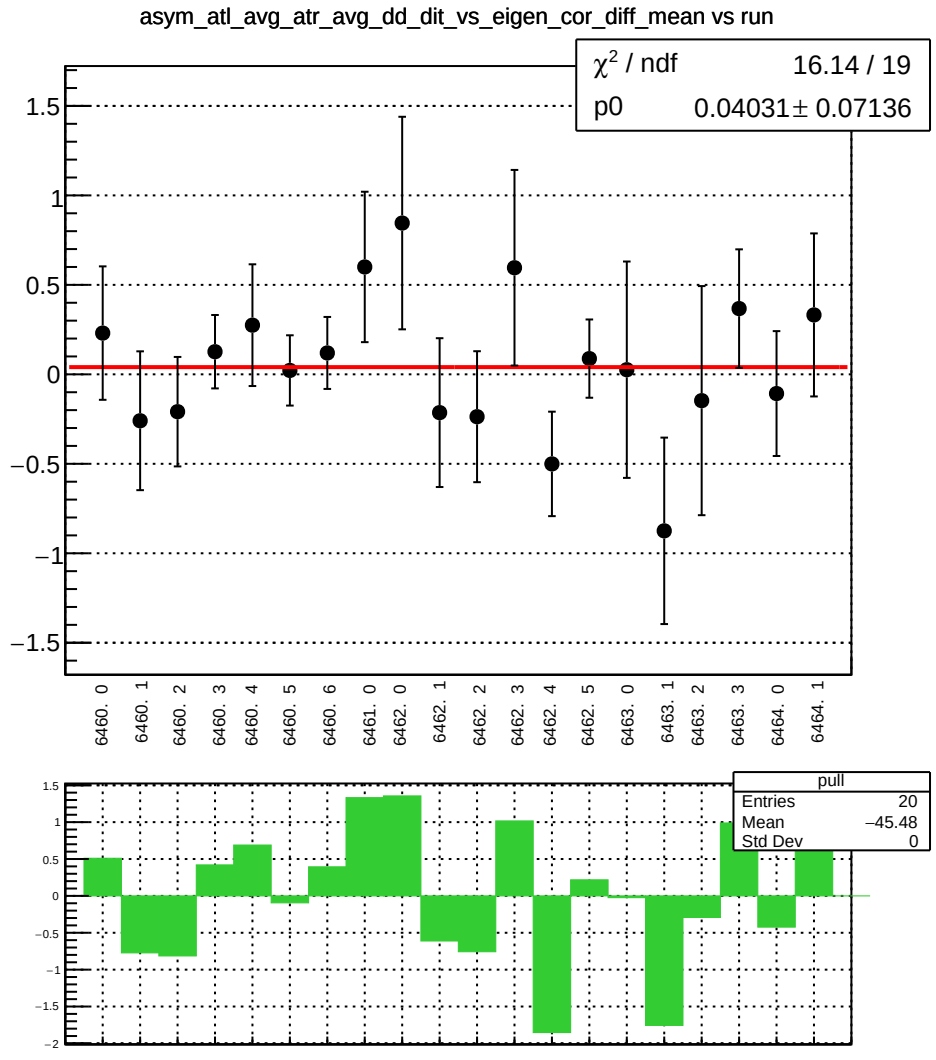

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.31 / 19
p0 1.573e−14 ± 1.347e−14
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.09698
Std Dev 1.052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

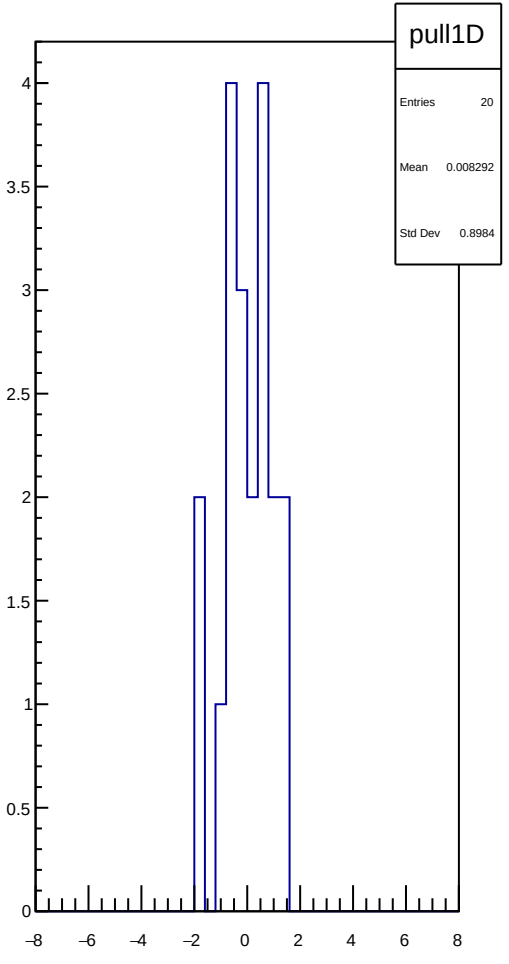

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.065e+05 / 19
p0 2.993e−12 ± 9.527e−15
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

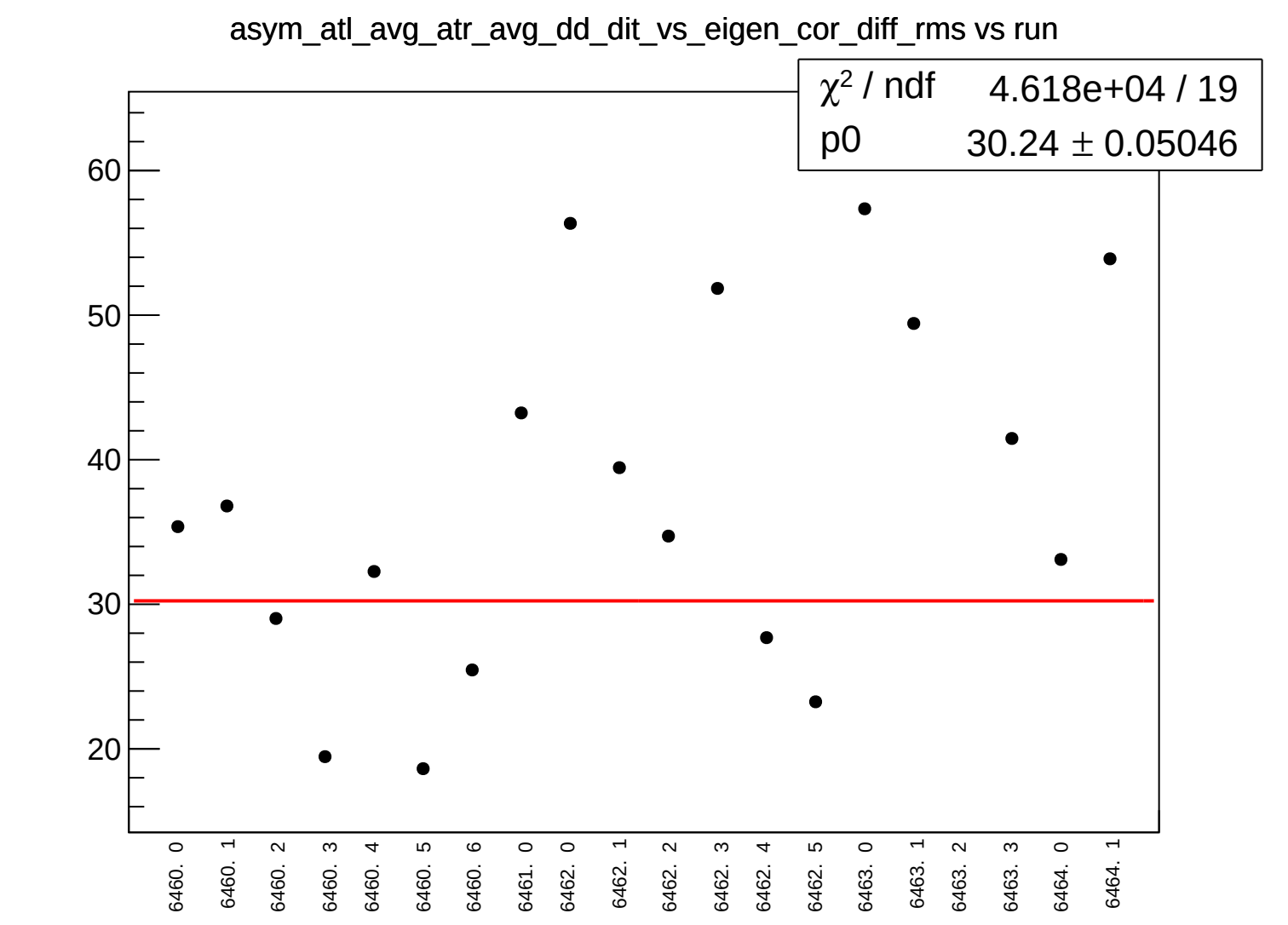

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 16.14 / 19
p0 0.04031 ± 0.07136
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

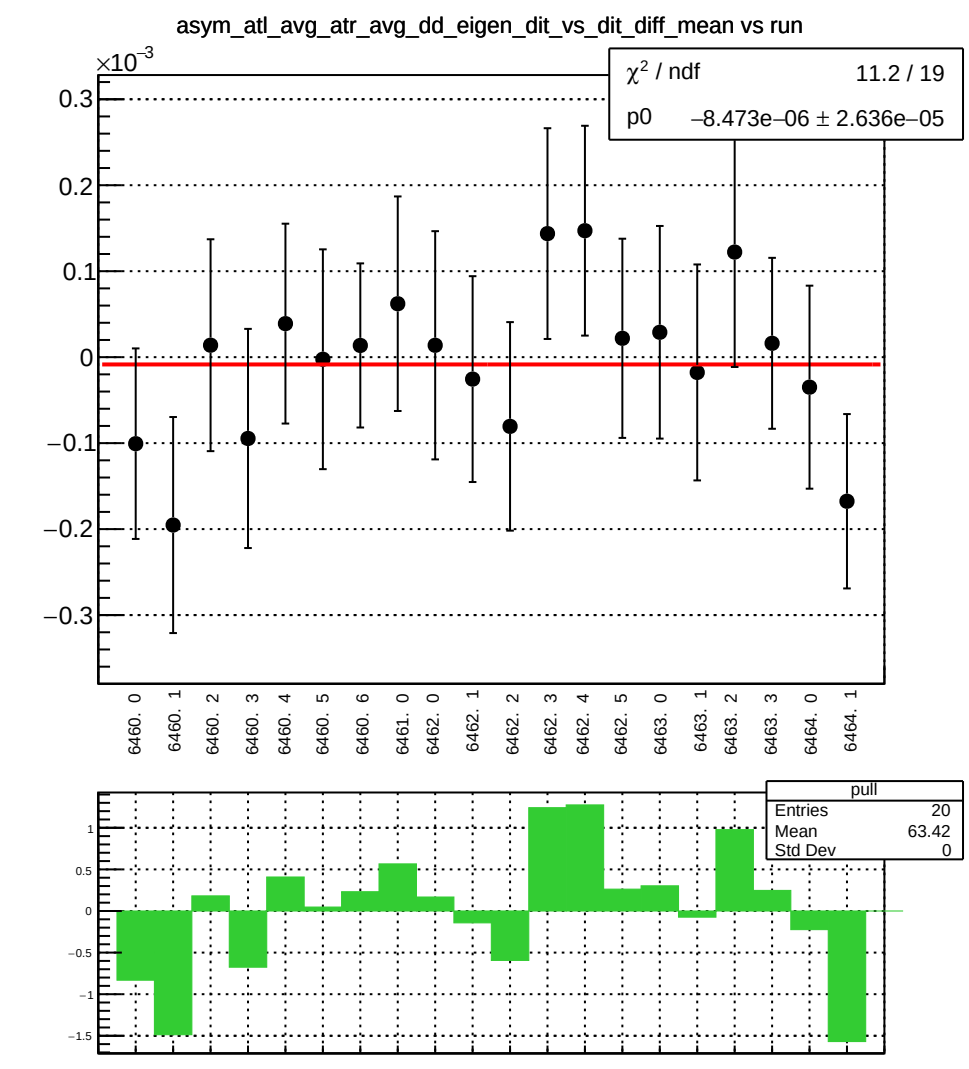

pull1D
Entries 20
Mean 0.008292
Std Dev 0.8984
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

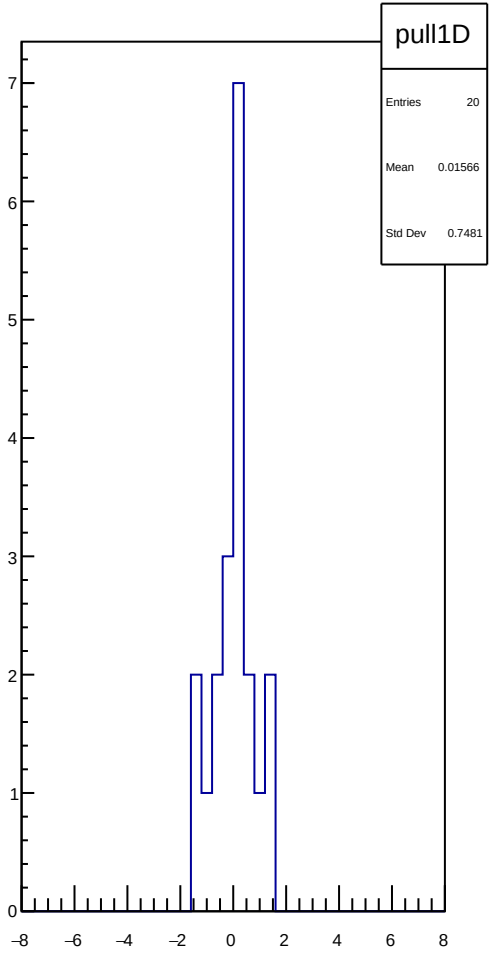

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.618e+04 / 19
p0 30.24 ± 0.05046
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

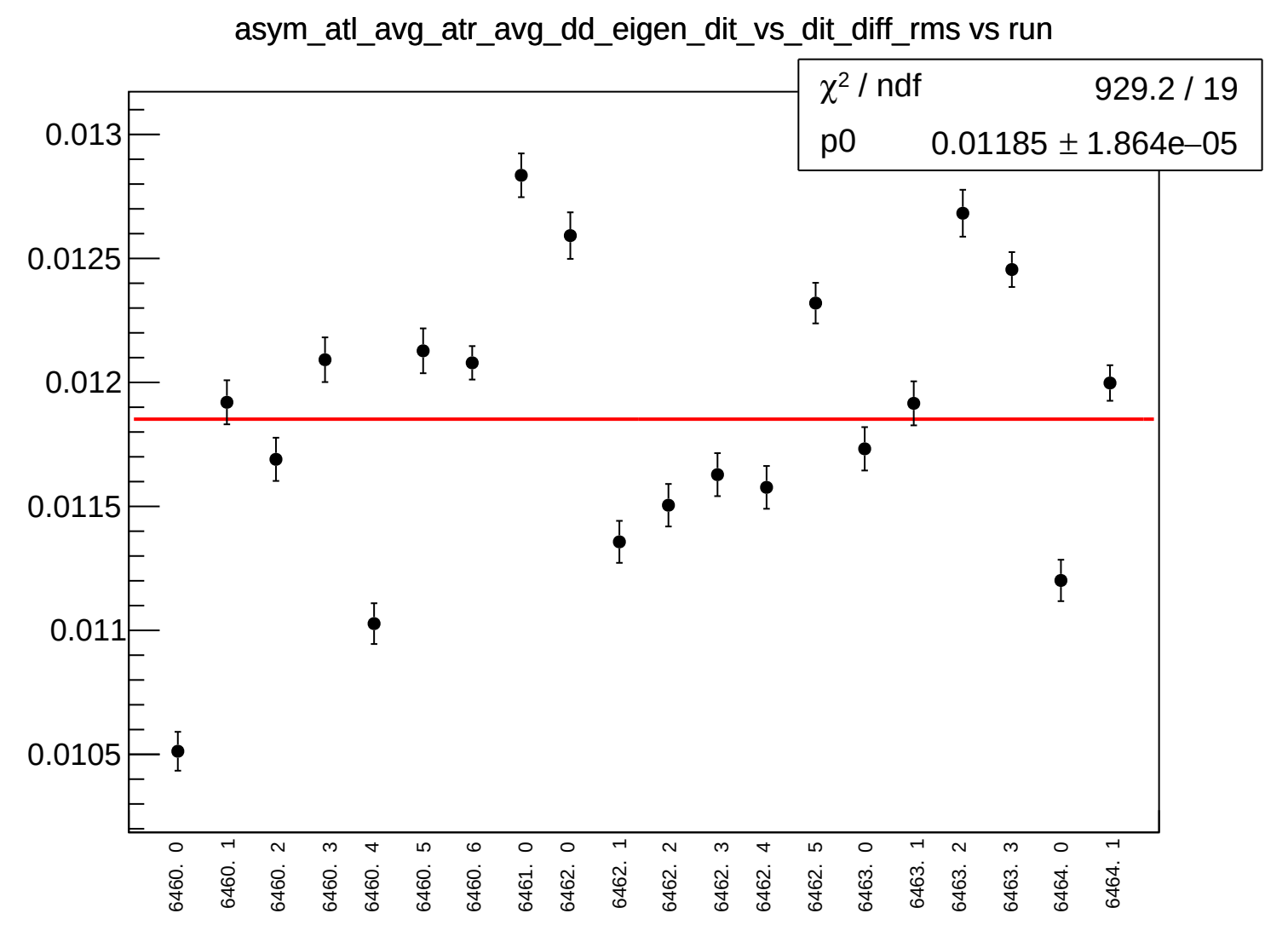

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.14 / 19
p0 0.04031 ± 0.07136
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

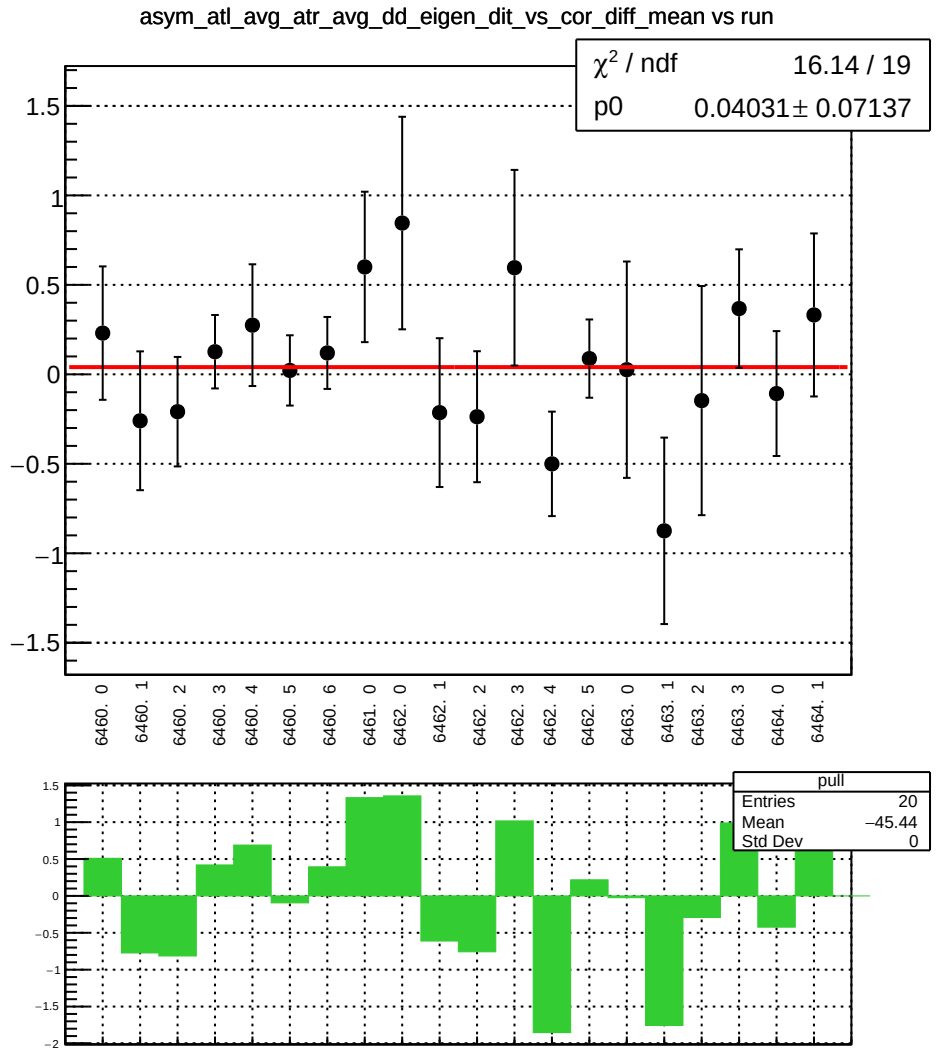

pull1D
Entries 20
Mean 0.008292
Std Dev 0.8984
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

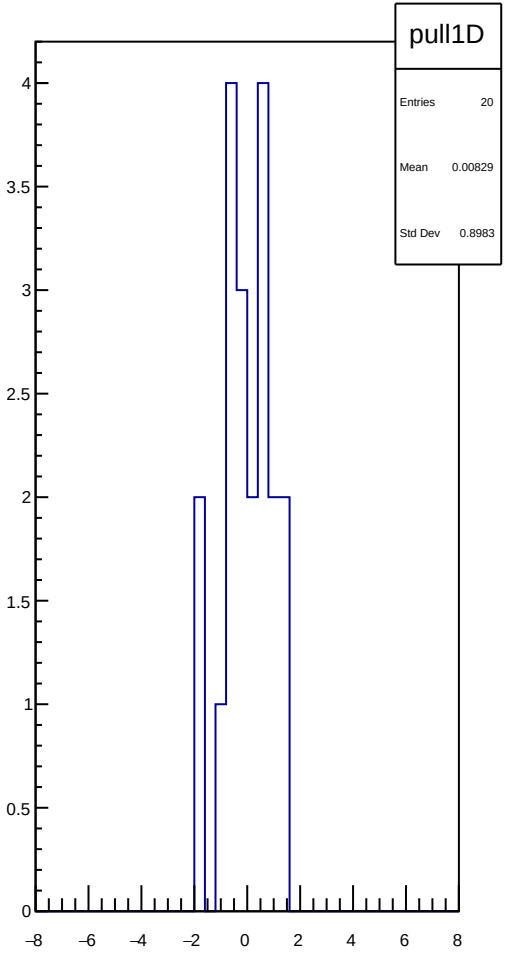

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.618e+04 / 19
p0 30.24 ± 0.05046
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

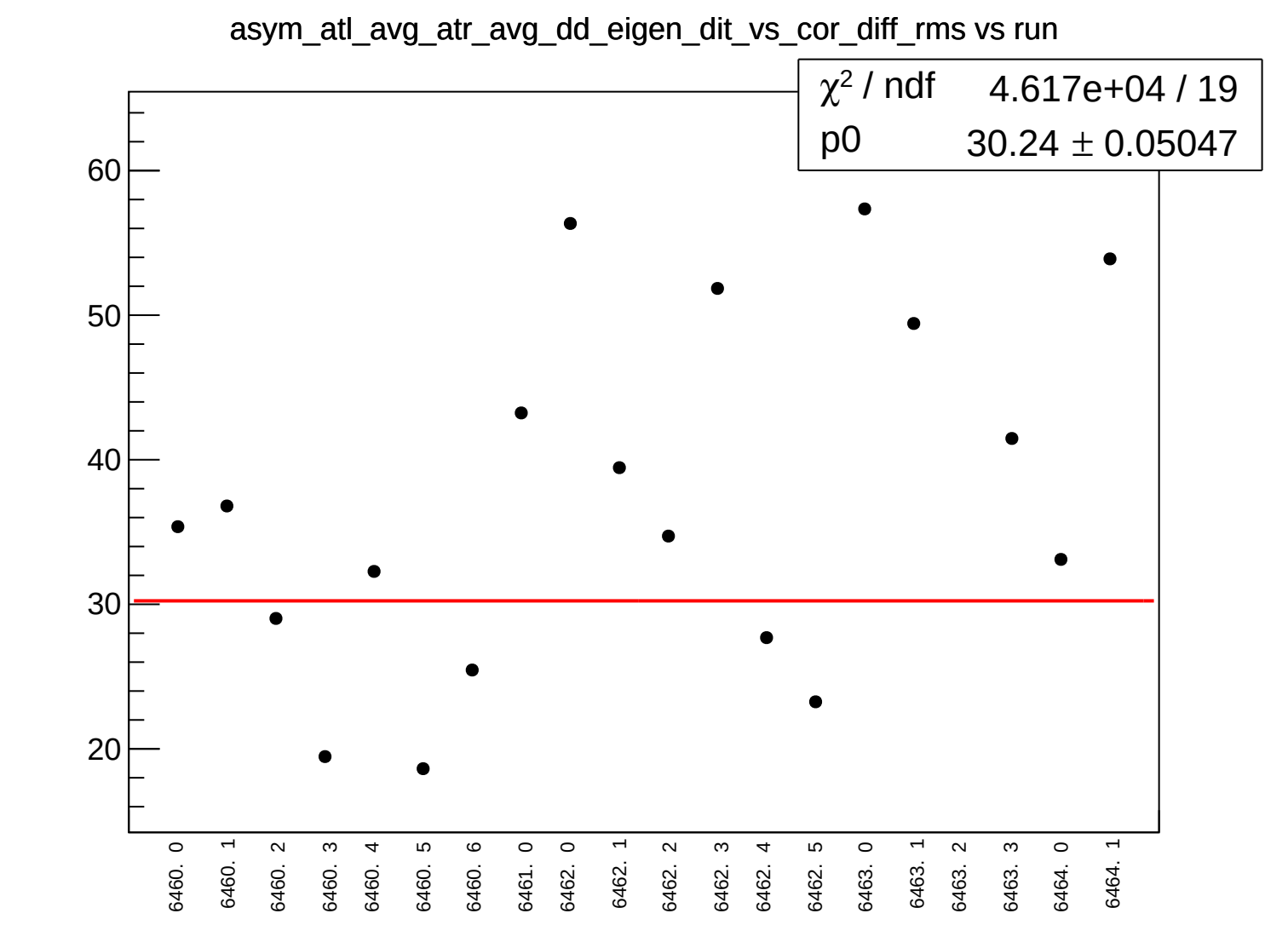

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.2 / 19
p0 −8.473e−06 ± 2.636e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 63.42
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

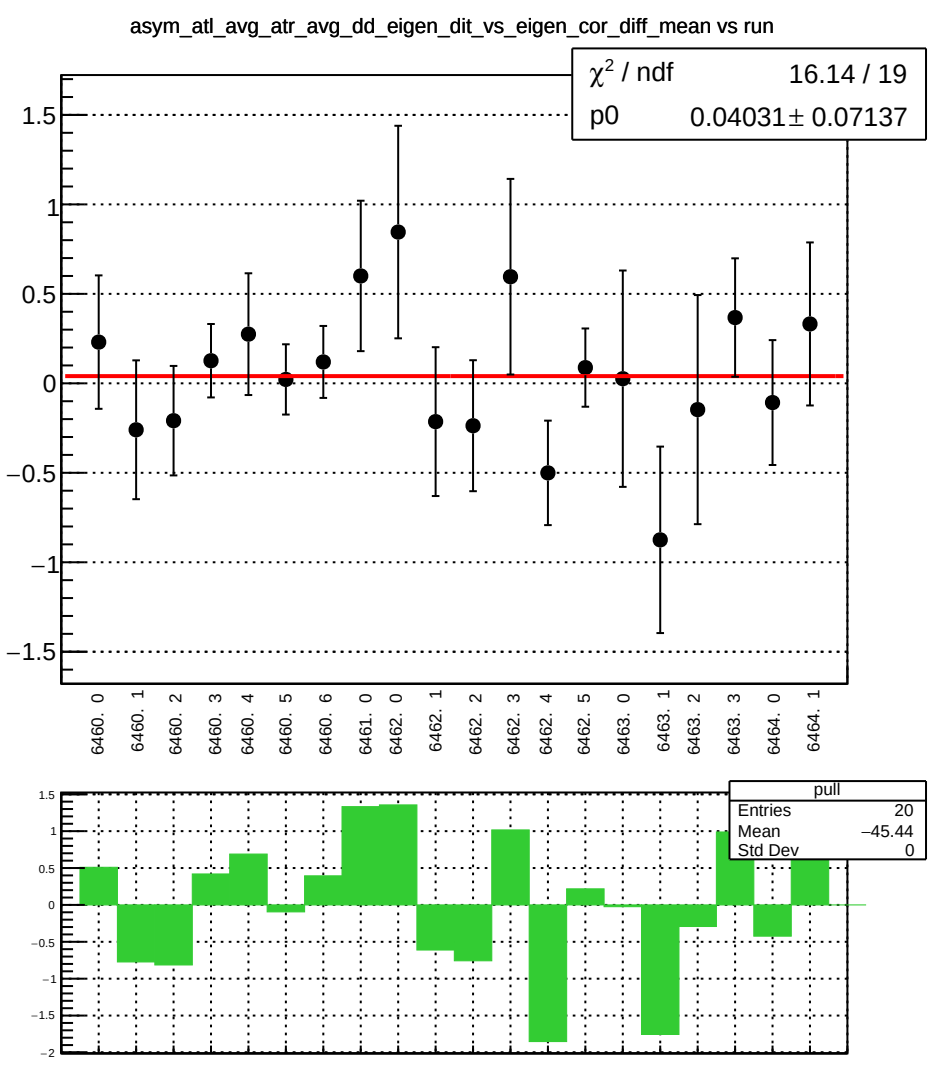

pull1D
Entries 20
Mean 0.01566
Std Dev 0.7481
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

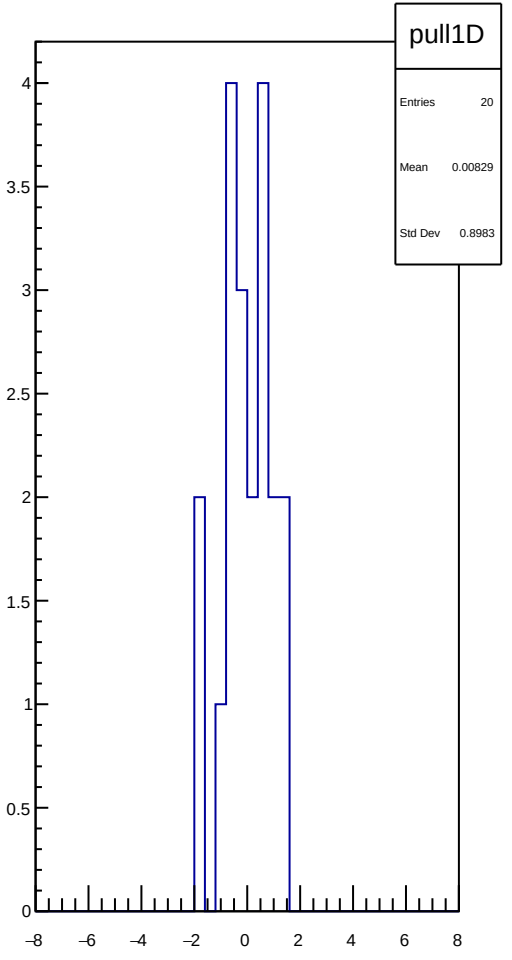

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 929.2 / 19
p0 0.01185 ± 1.864e−05
0.013
0.0125
0.012
0.0115
0.011
0.0105
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

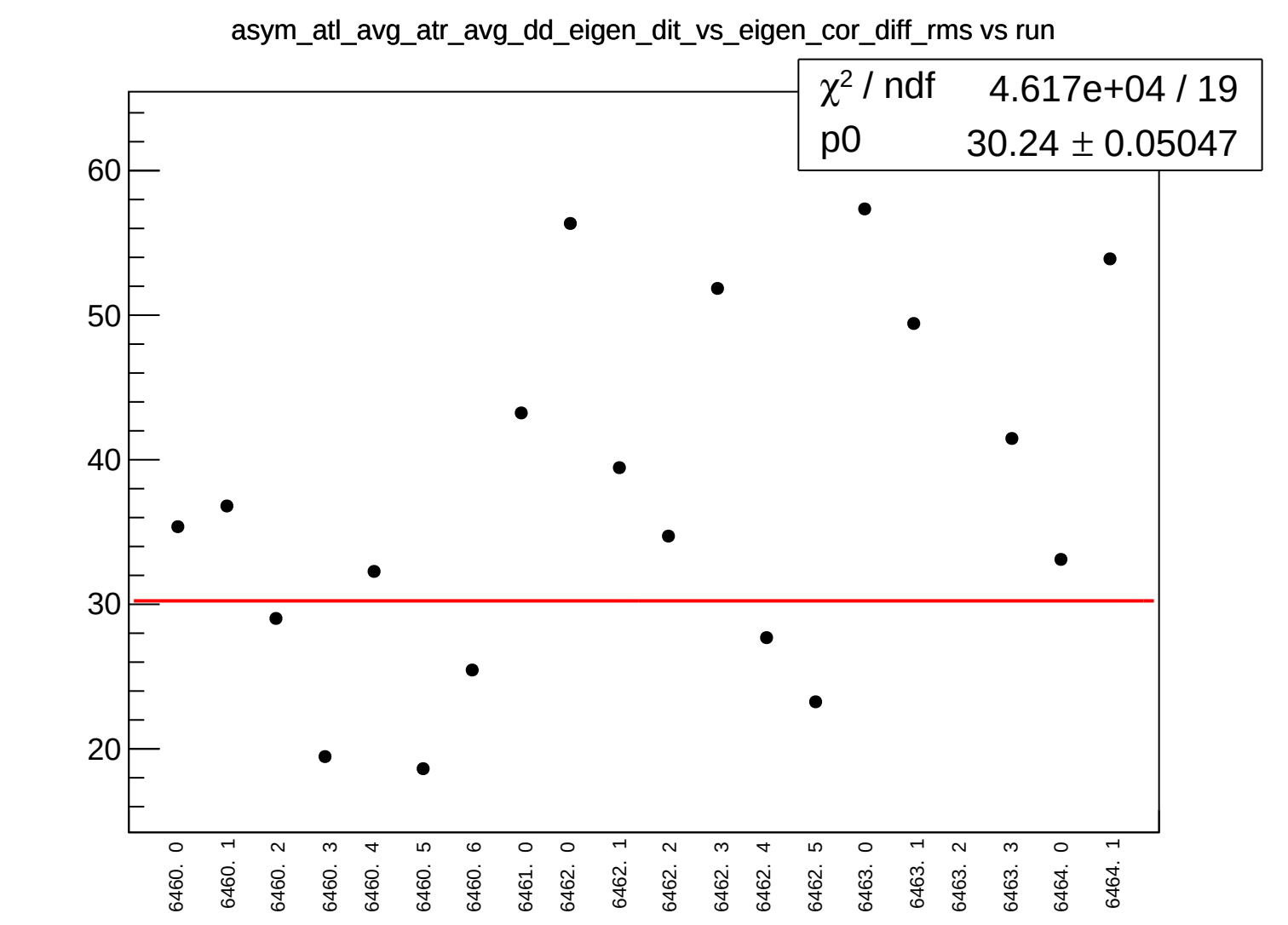

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.14 / 19
p0 0.04031 ± 0.07137
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

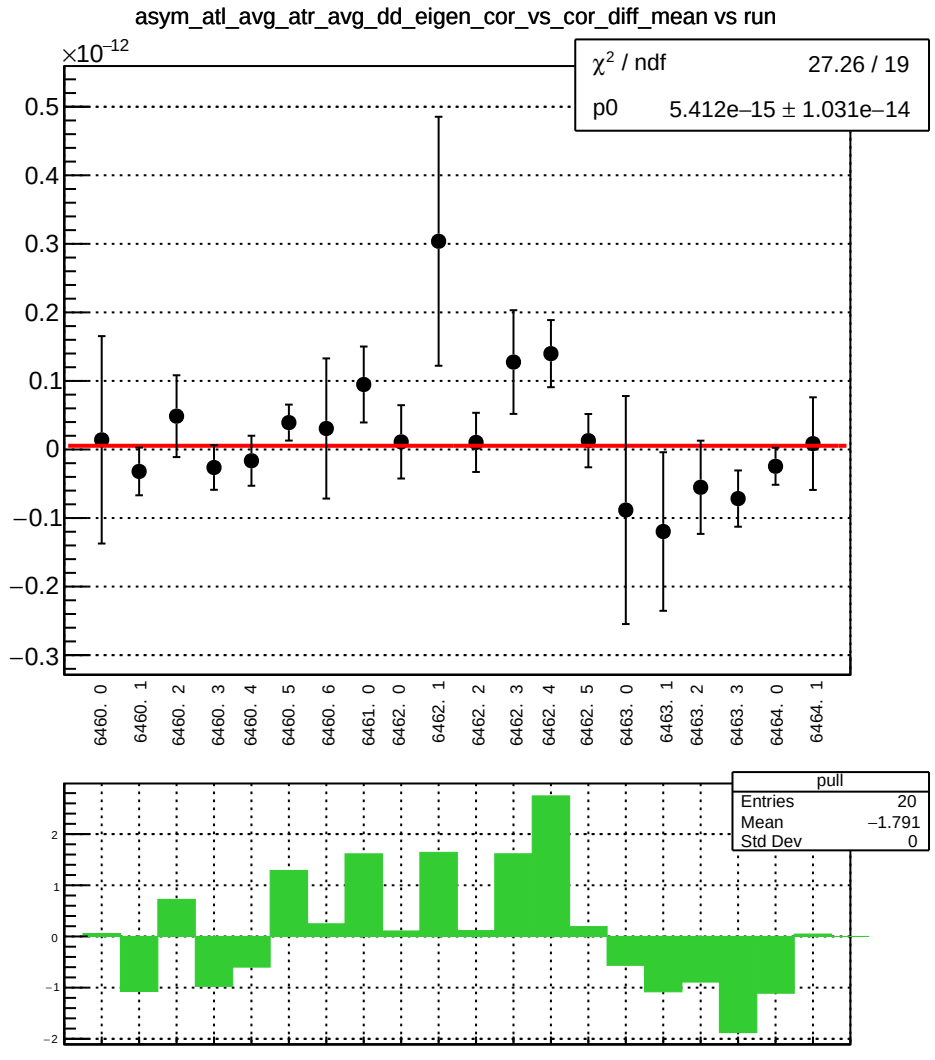

pull1D
Entries 20
Mean 0.00829
Std Dev 0.8983
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

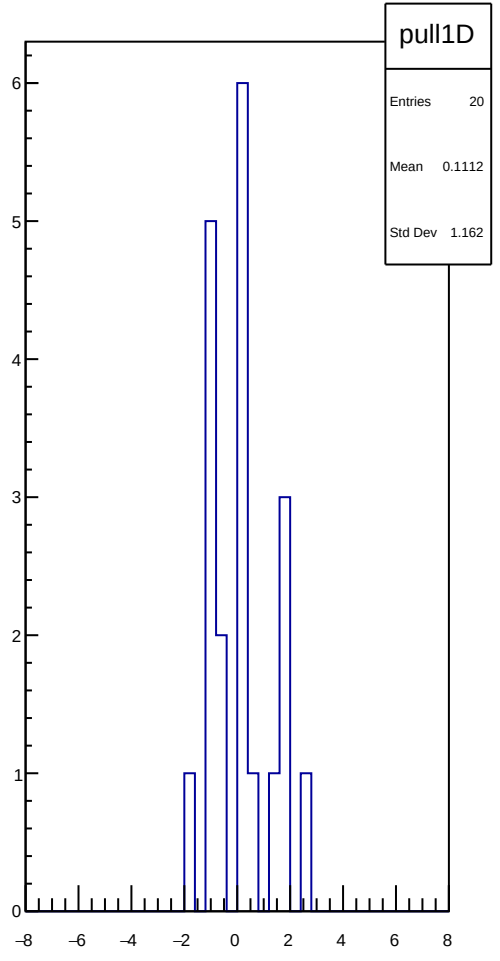

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.617e+04 / 19
p0 30.24 ± 0.05047
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

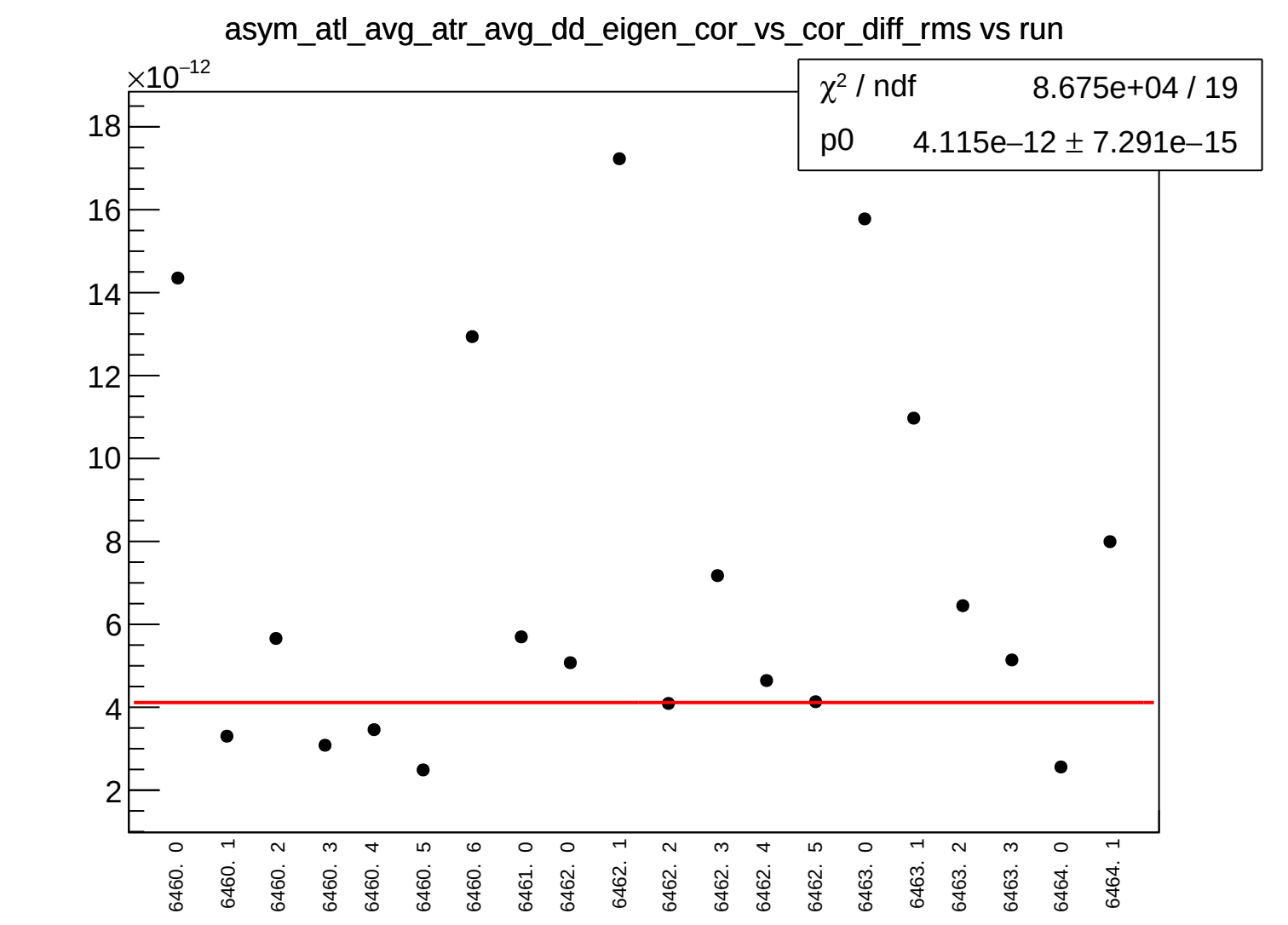

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.14 / 19
p0 0.04031 ± 0.07137
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

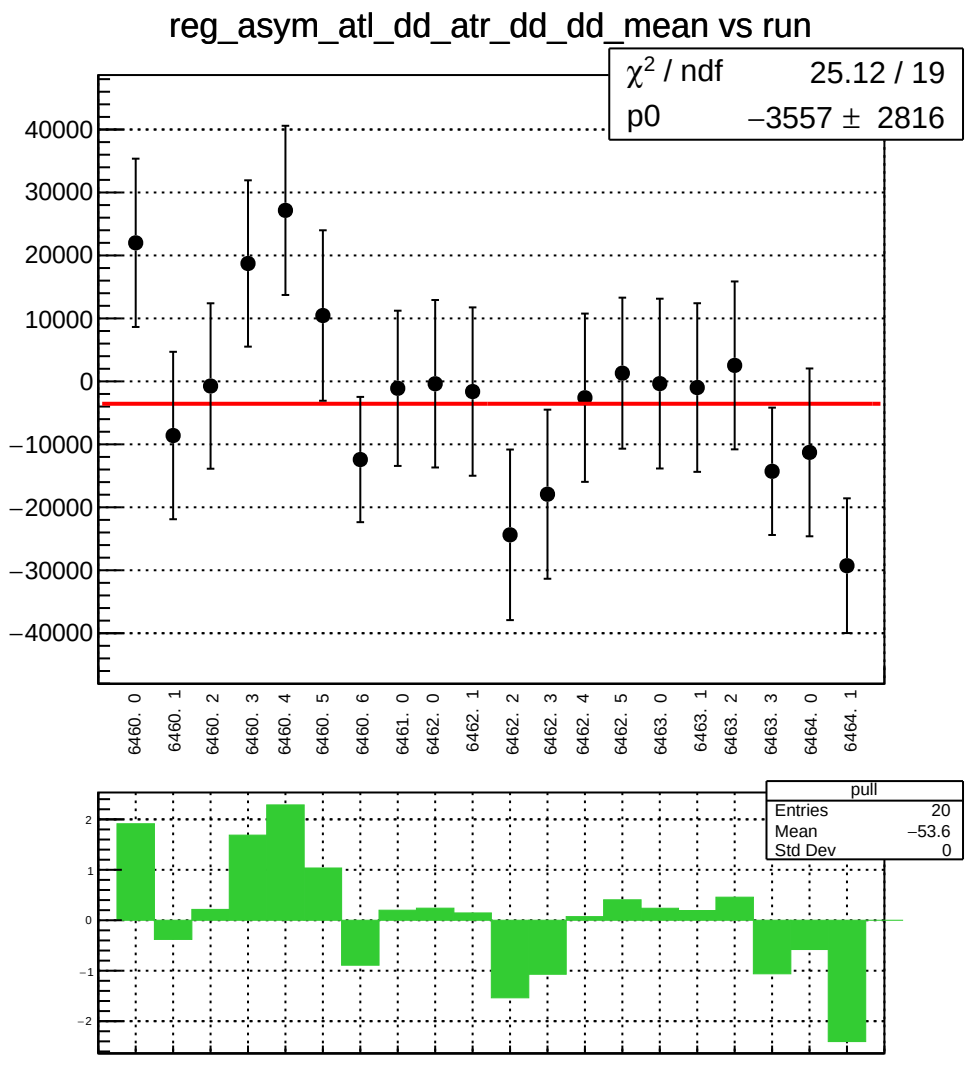

pull1D
Entries 20
Mean 0.00829
Std Dev 0.8983
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

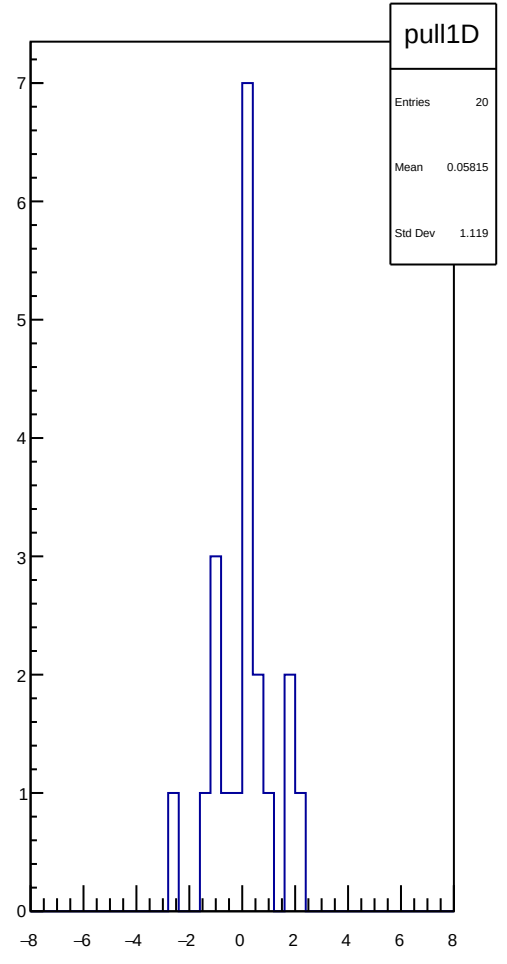

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.617e+04 / 19
p0 30.24 ± 0.05047
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

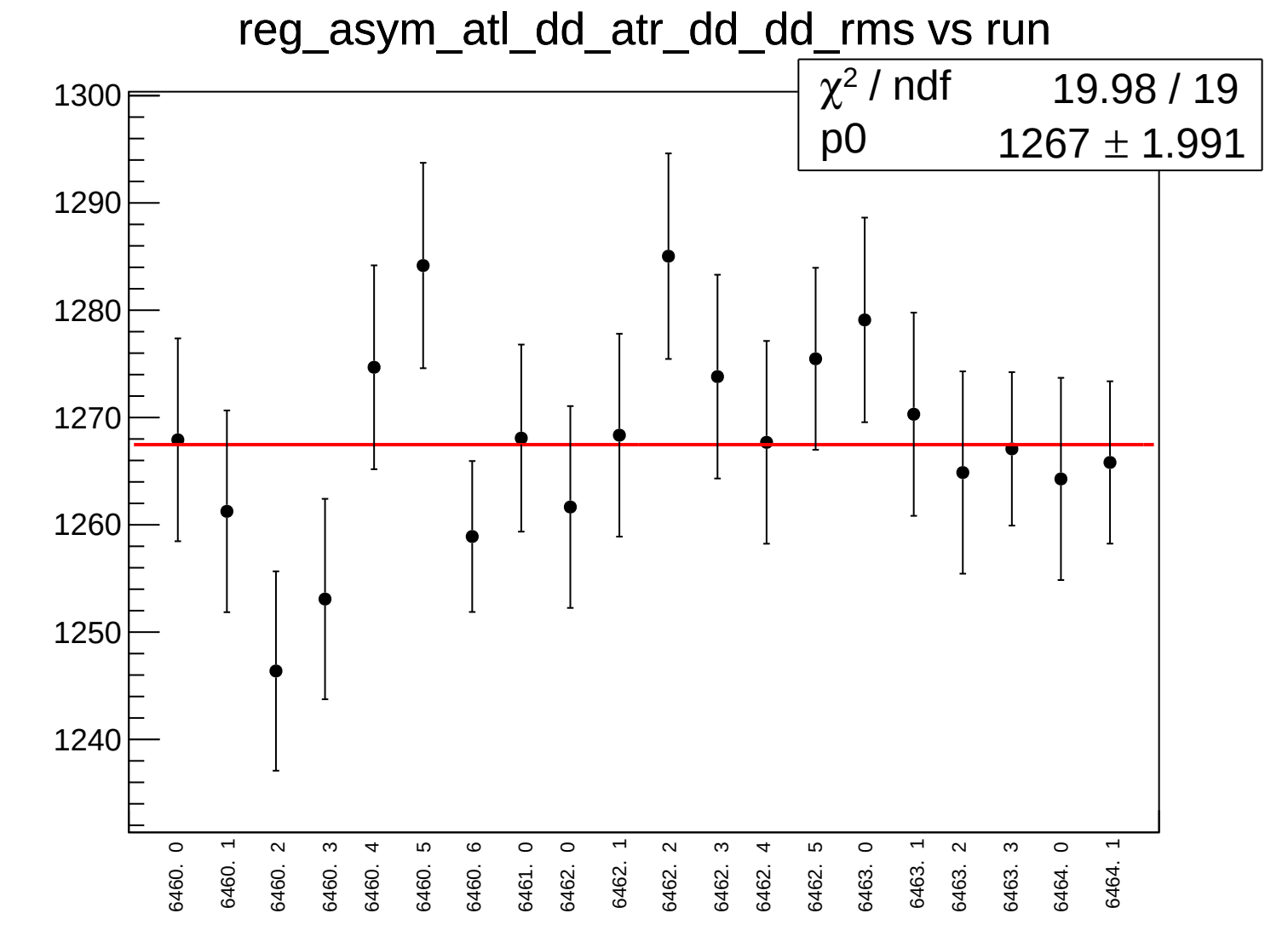

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.26 / 19
p0 5.412e−15 ± 1.031e−14
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.791
Std Dev 0
2
1
0
−1
−2

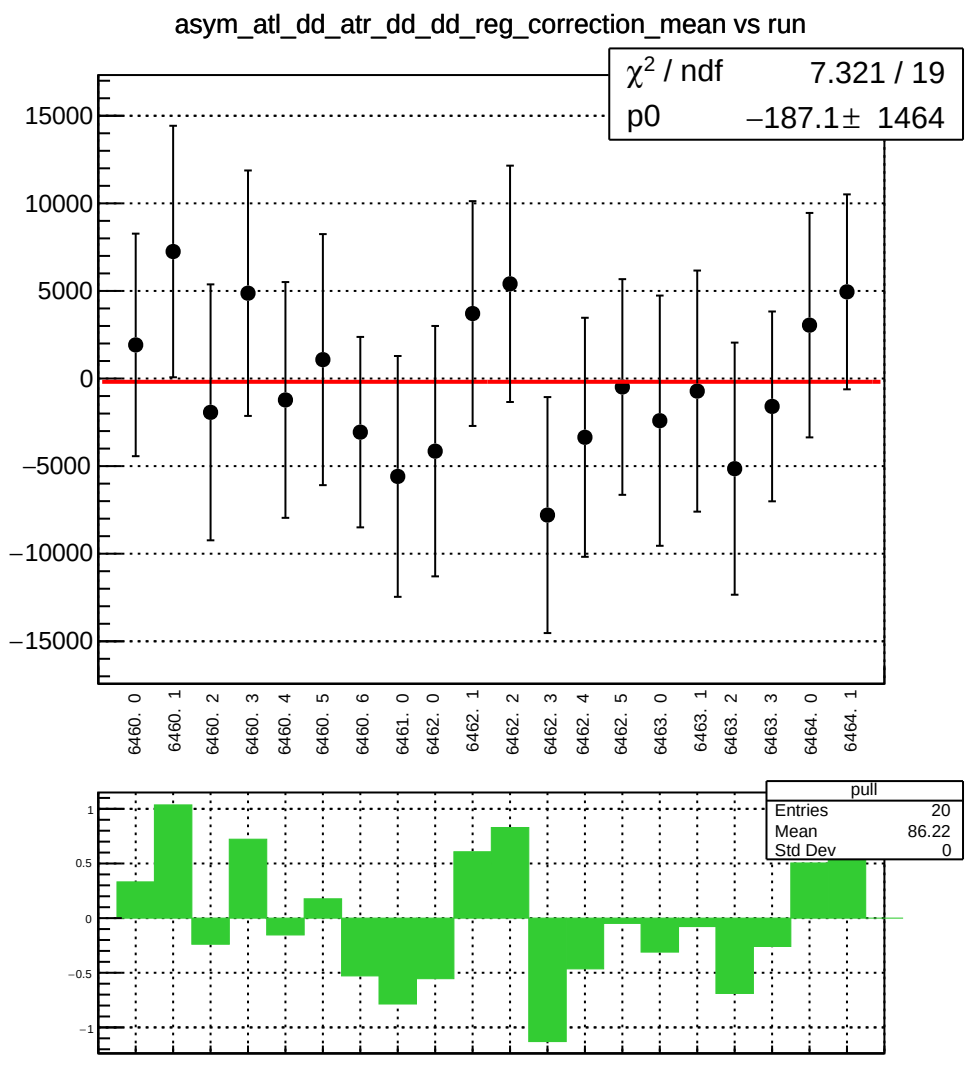

pull1D
Entries 20
Mean 0.1112
Std Dev 1.162
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

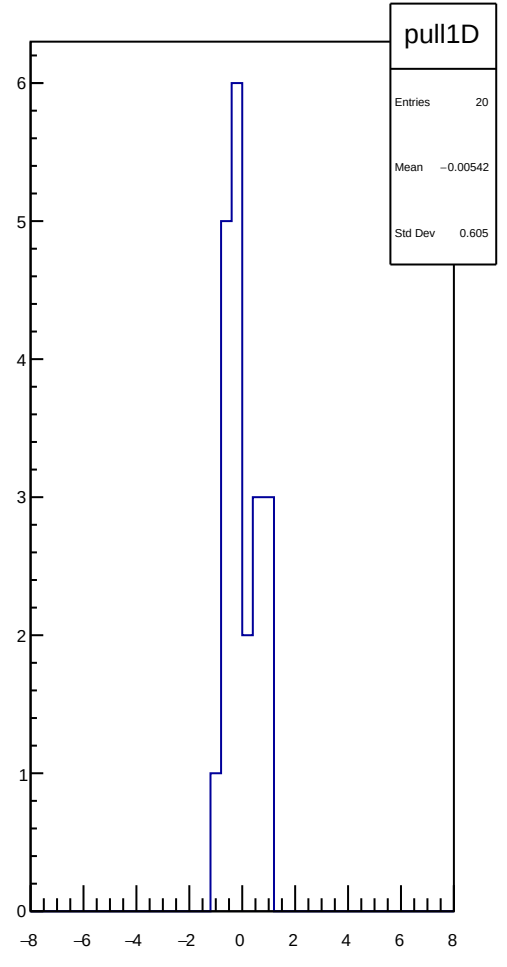

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.675e+04 / 19
p0 4.115e−12 ± 7.291e−15
18
16
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

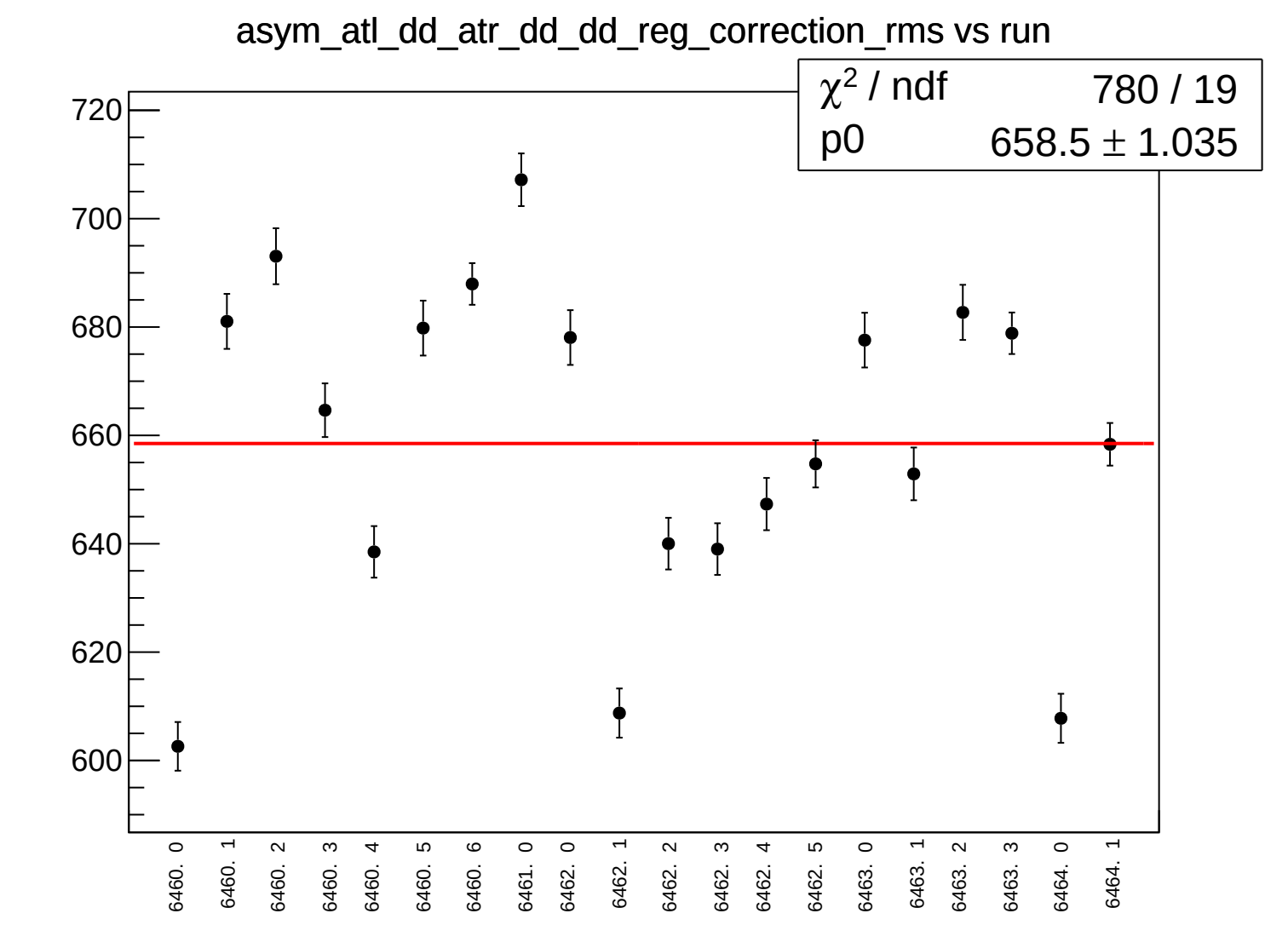

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 25.12 / 19
p0 −3557 ± 2816
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.6
Std Dev 0
2
1
0
−1
−2

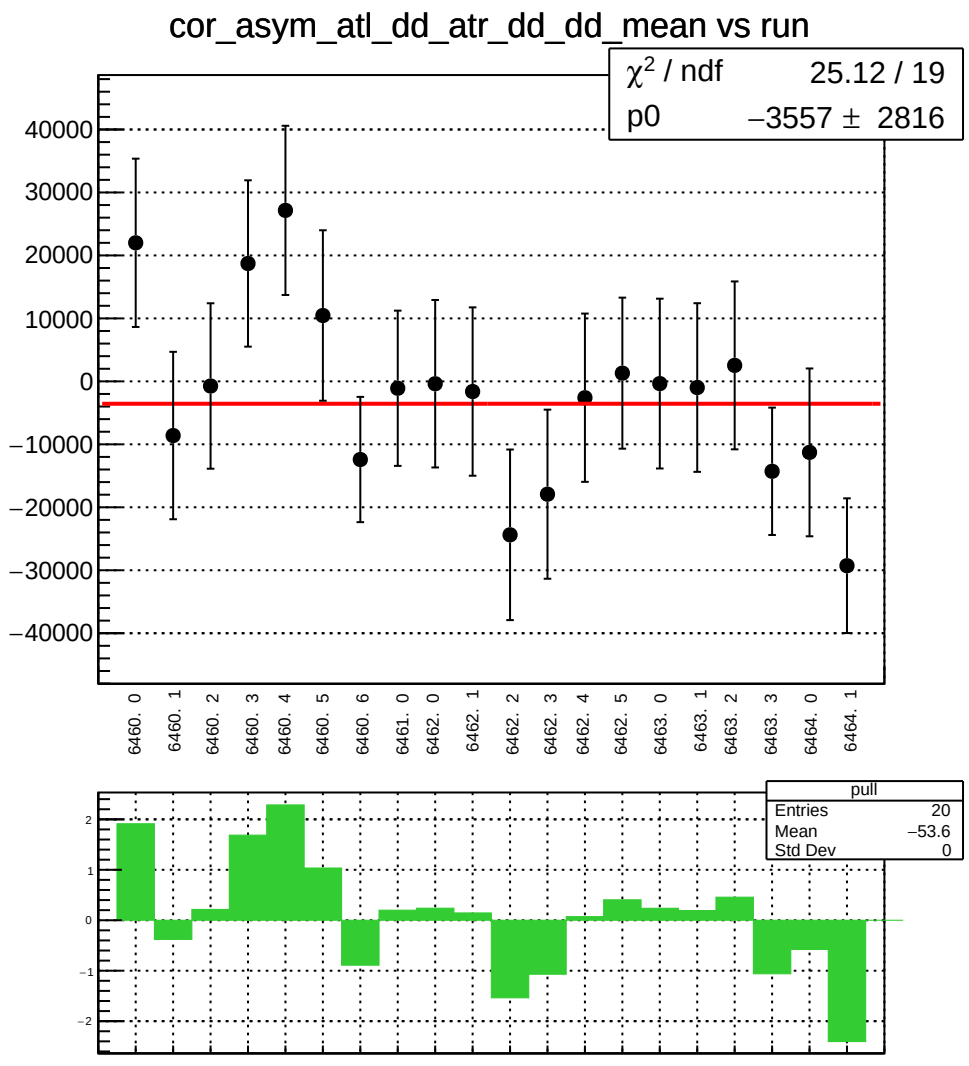

pull1D
Entries 20
Mean 0.05815
Std Dev 1.119
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

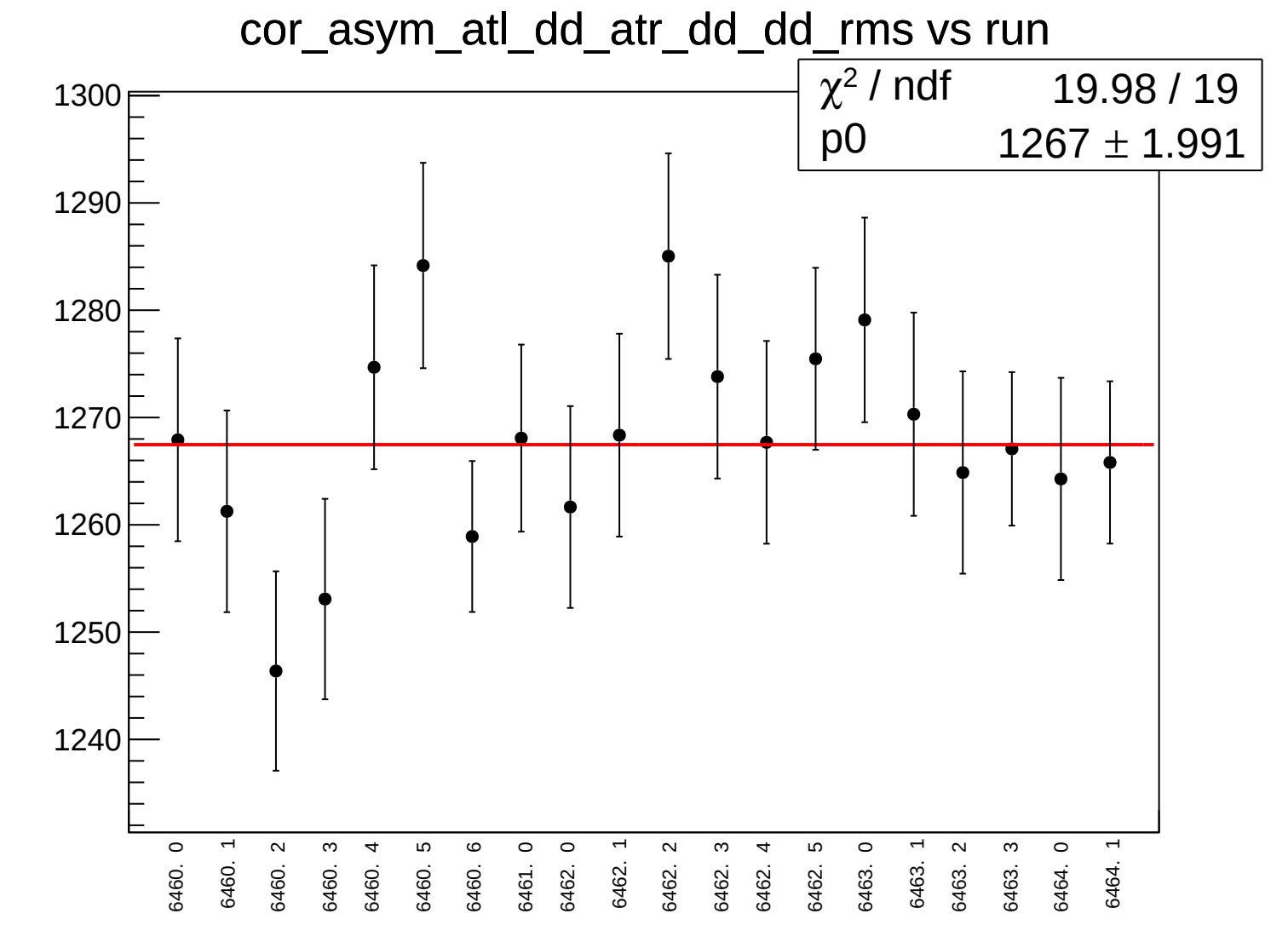

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 19.98 / 19
p0 1267 ± 1.991
1300
1290
1280
1270
1260
1250
1240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

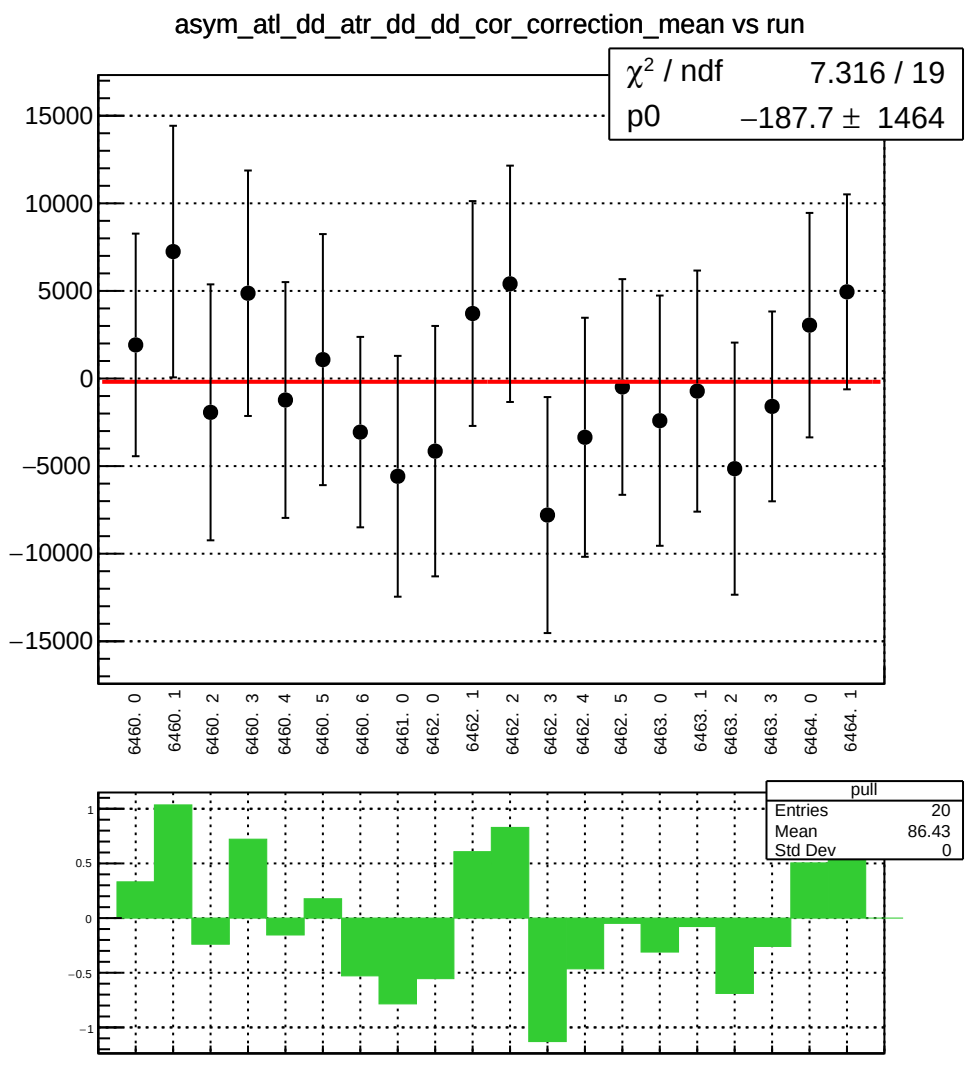

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 7.321 / 19
p0 −187.1± 1464
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.22
Std Dev 0
1
0.5
0
−0.5
−1

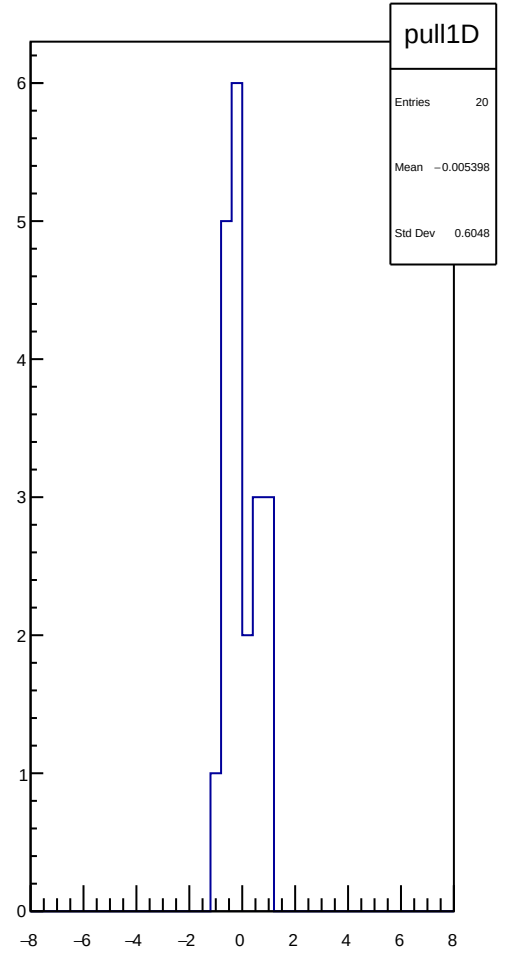

pull1D
Entries 20
Mean −0.00542
Std Dev 0.605
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

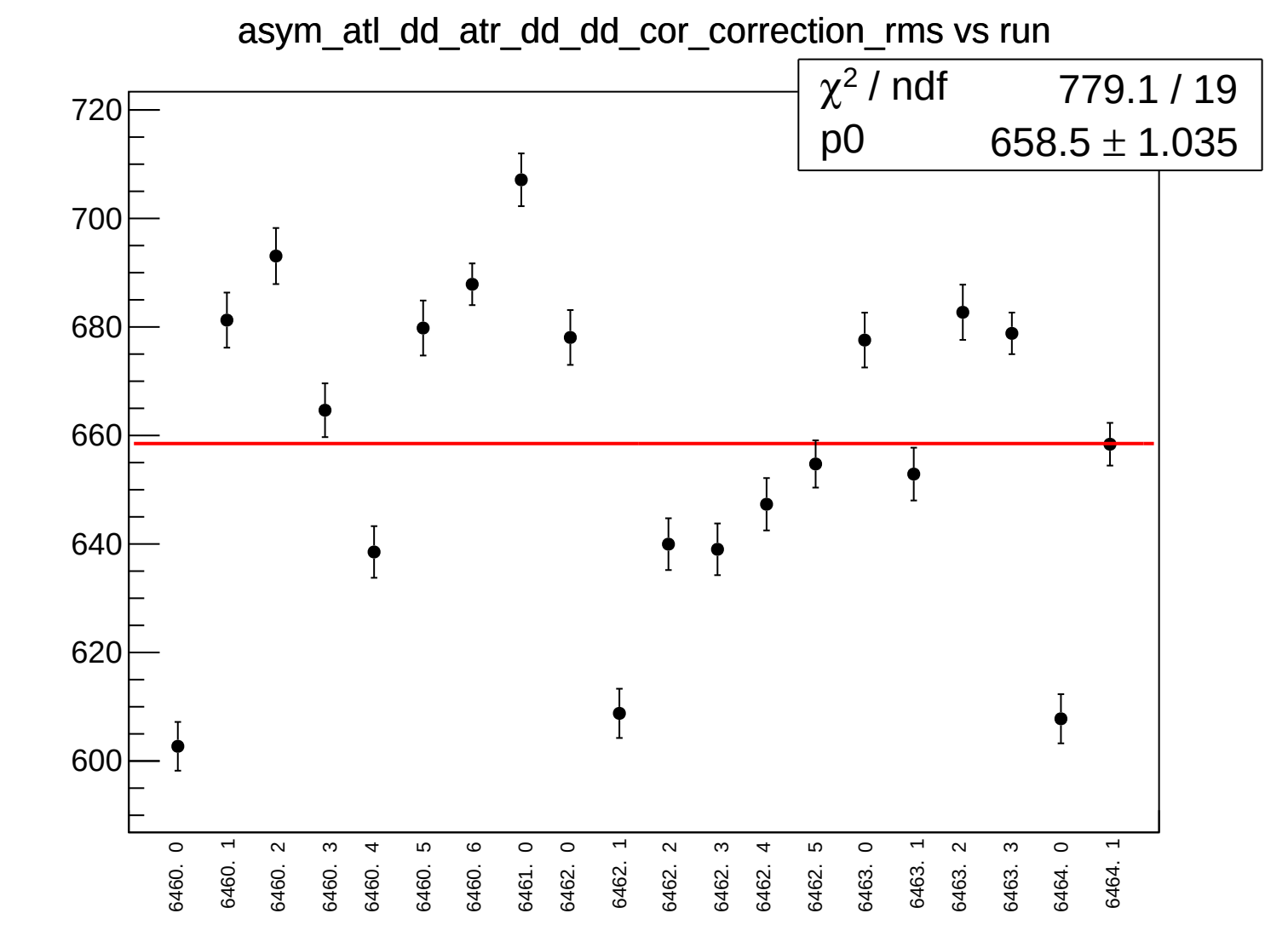

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 780 / 19
p0 658.5 ± 1.035
720
700
680
660
640
620
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

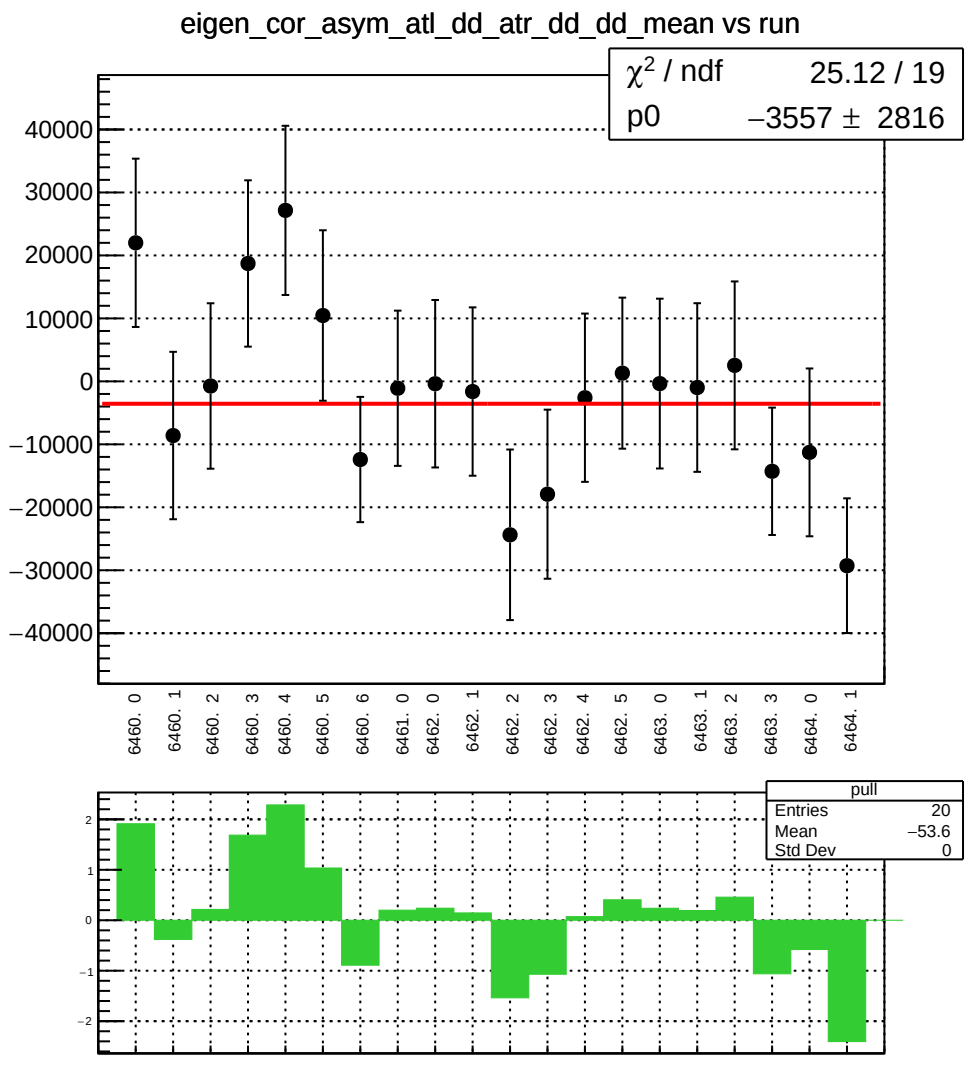

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 25.12 / 19
p0 −3557 ± 2816
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.05814
Std Dev 1.119
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

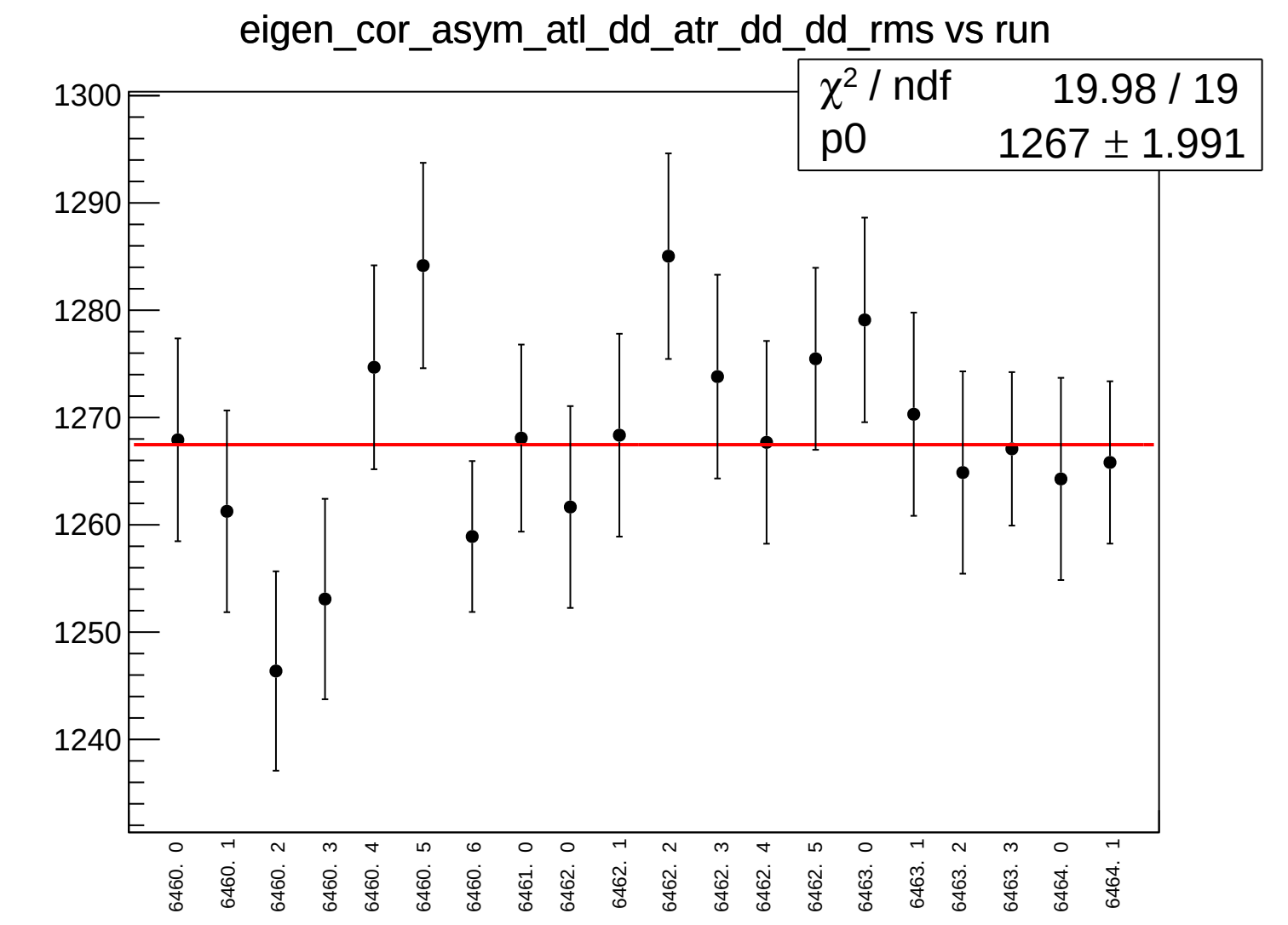

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 19.98 / 19
p0 1267 ± 1.991
1300
1290
1280
1270
1260
1250
1240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

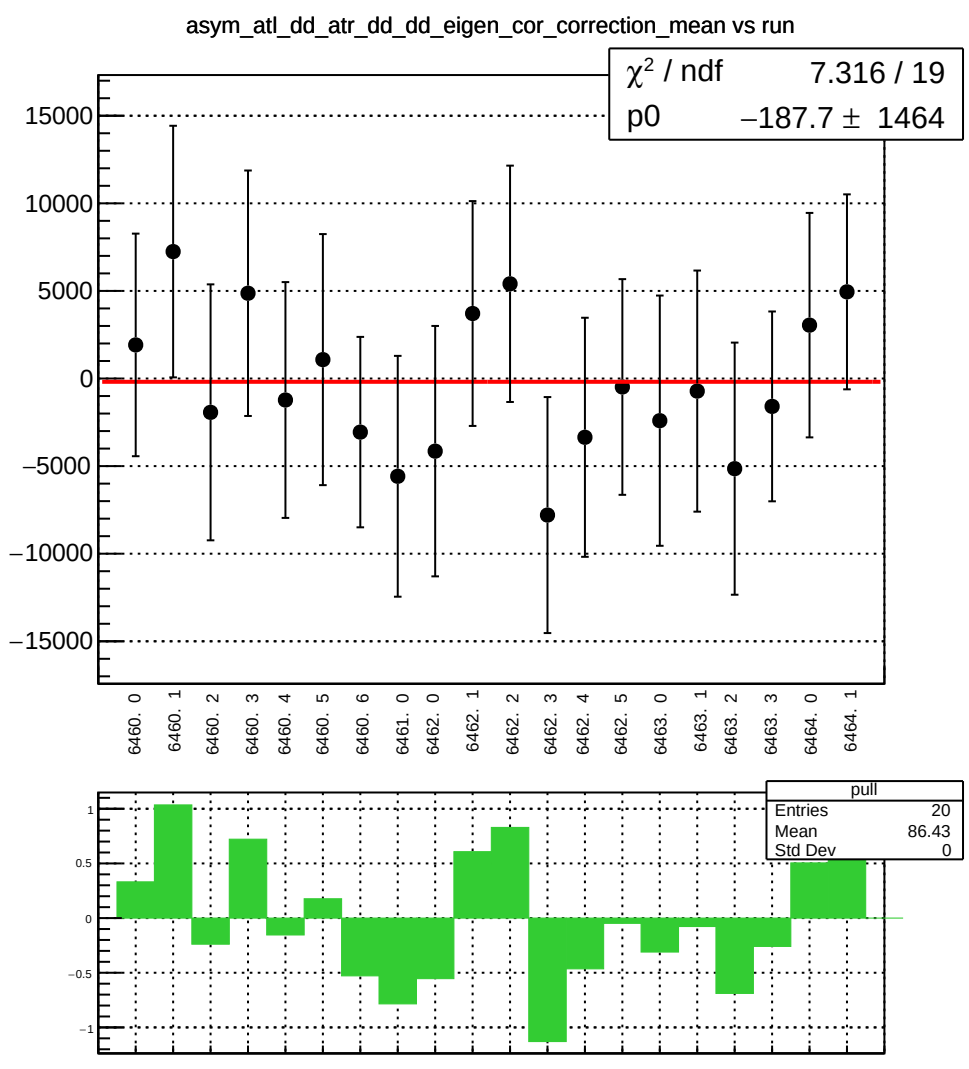

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 7.316 / 19
p0 −187.7 ± 1464
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.43
Std Dev 0
1
0.5
0
−0.5
−1

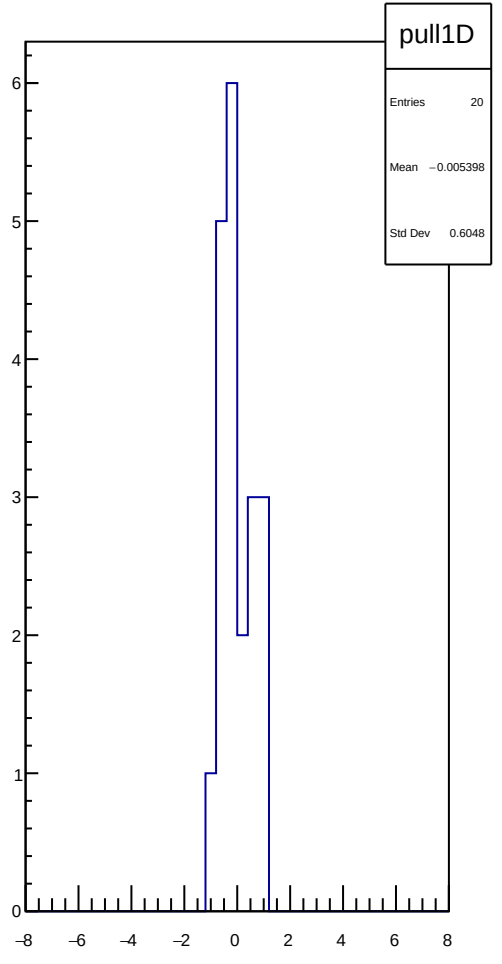

pull1D
Entries 20
Mean −0.005398
Std Dev 0.6048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

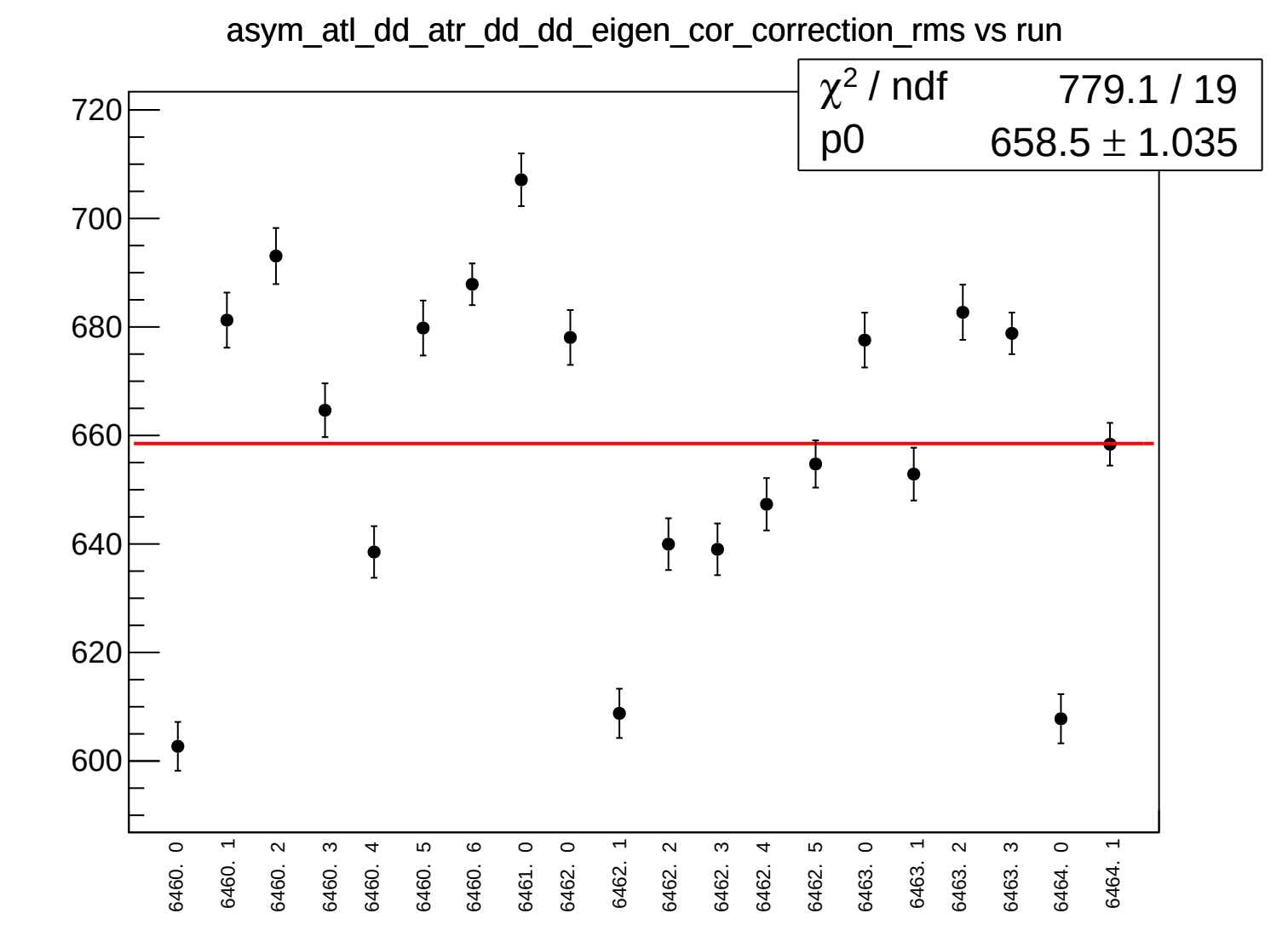

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 779.1 / 19
p0 658.5 ± 1.035
720
700
680
660
640
620
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

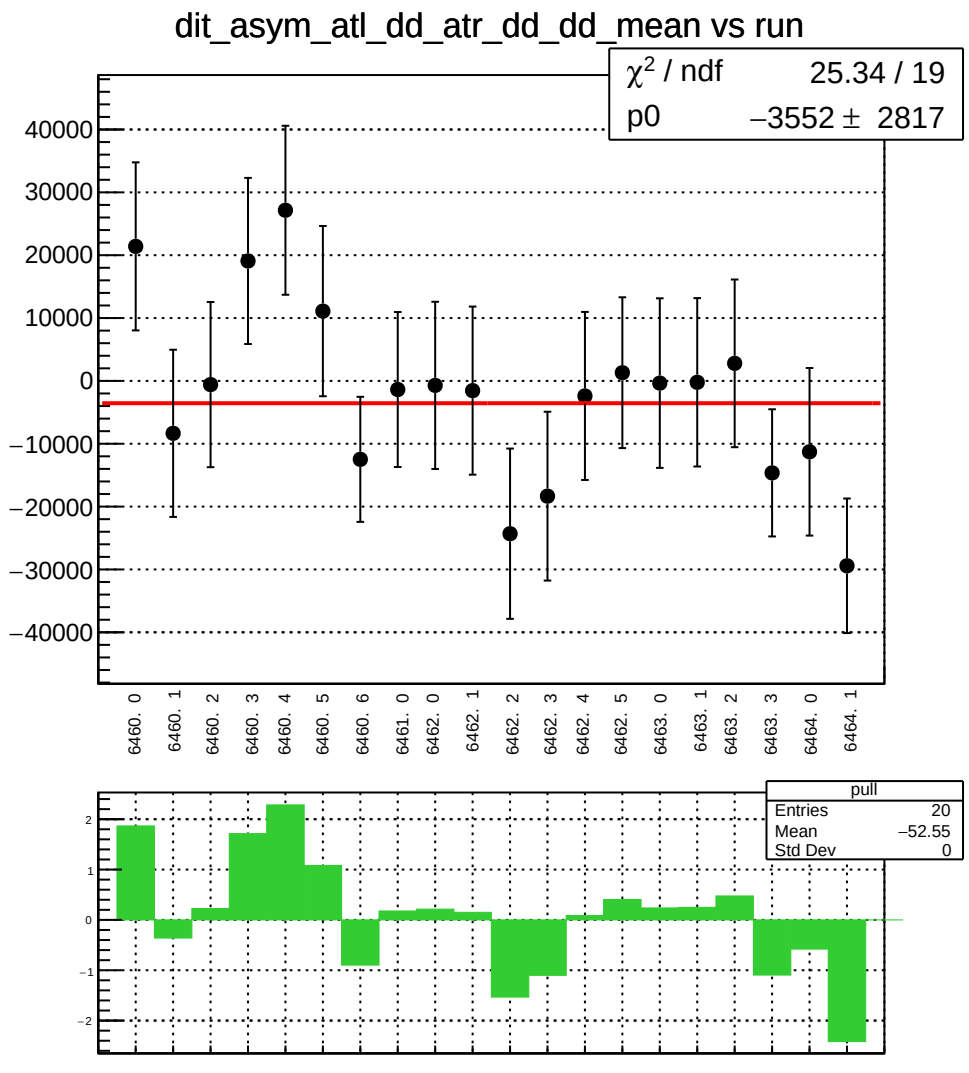

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 25.12 / 19
p0 −3557 ± 2816
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.05814
Std Dev 1.119
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

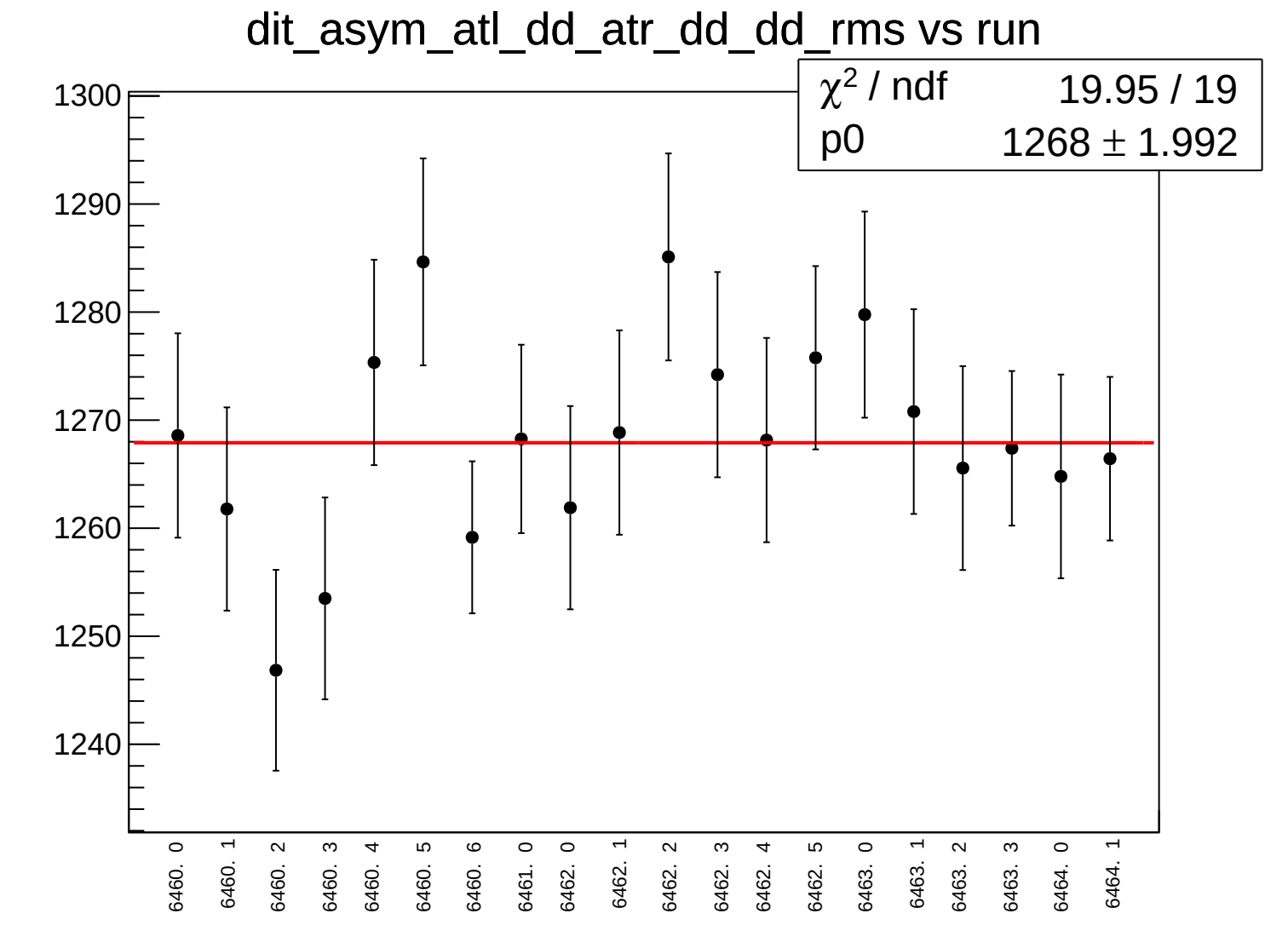

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 19.98 / 19
p0 1267 ± 1.991
1300
1290
1280
1270
1260
1250
1240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

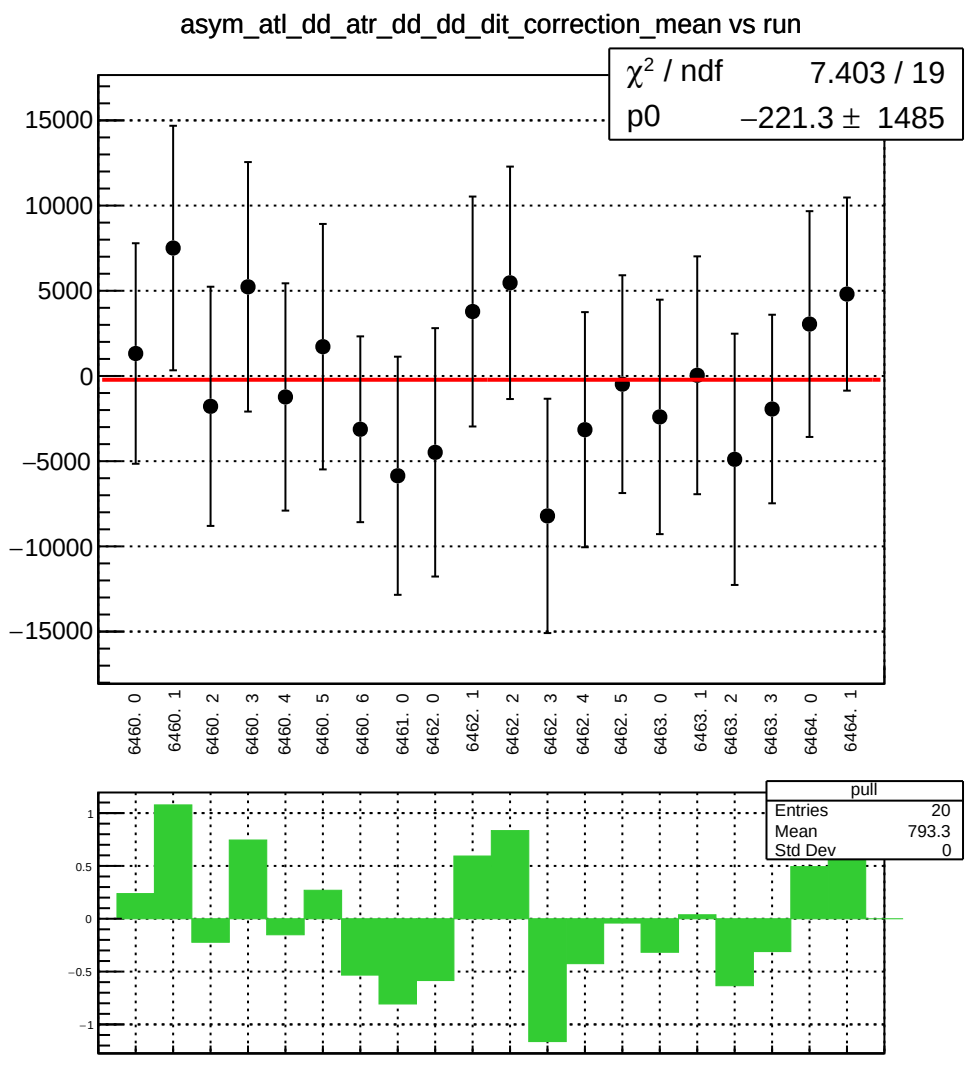

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 7.316 / 19
p0 −187.7 ± 1464
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.43
Std Dev 0
1
0.5
0
−0.5
−1

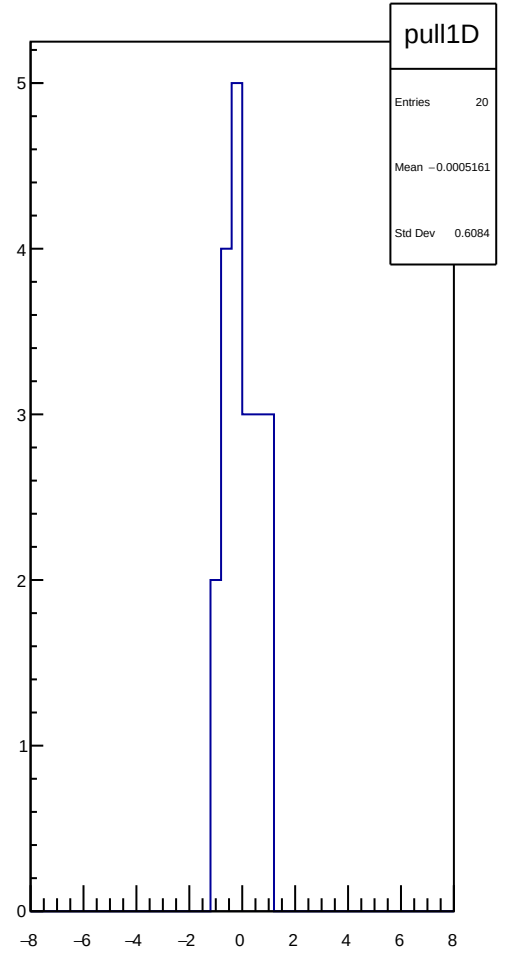

pull1D
Entries 20
Mean −0.005398
Std Dev 0.6048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

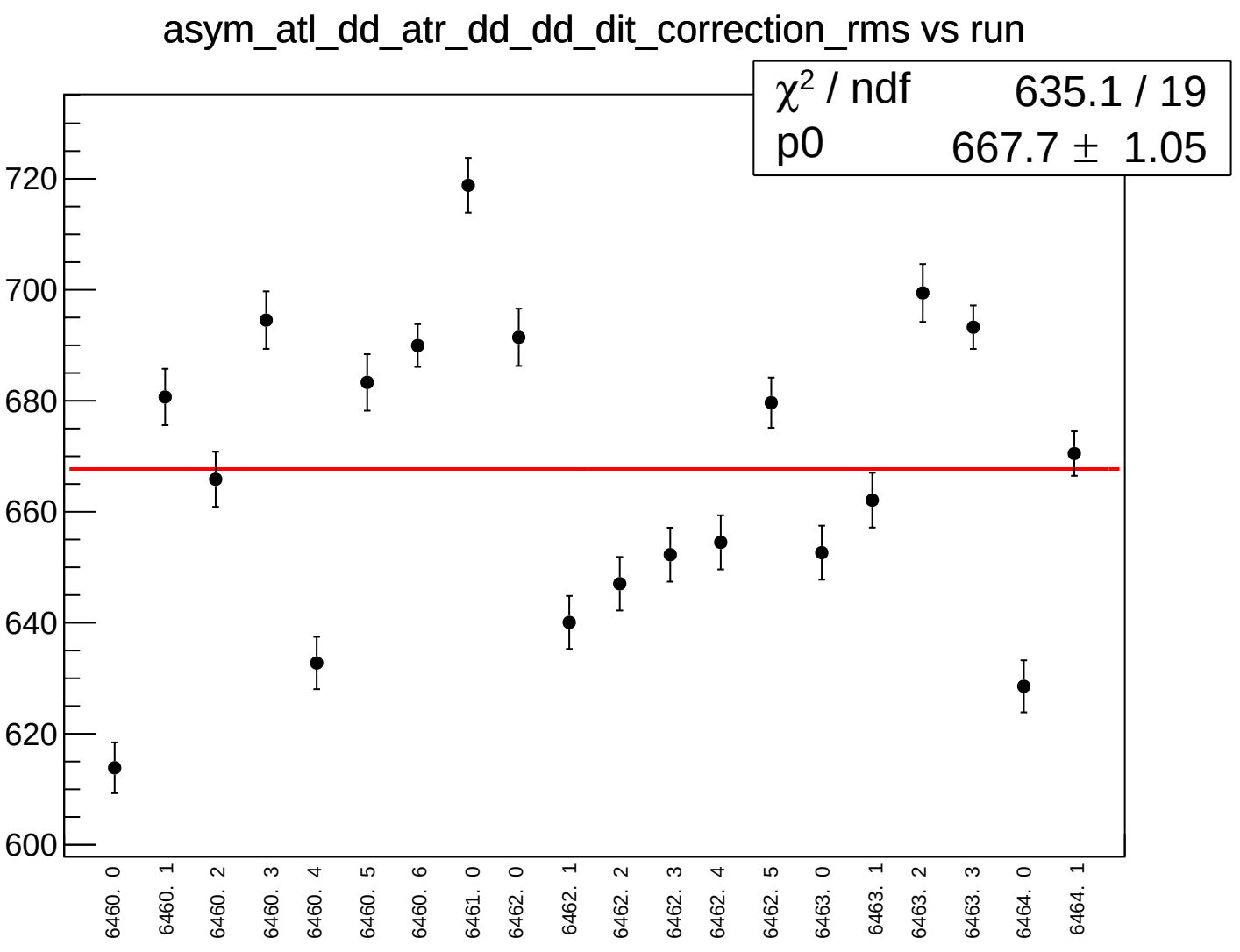

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 779.1 / 19
p0 658.5 ± 1.035
720
700
680
660
640
620
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

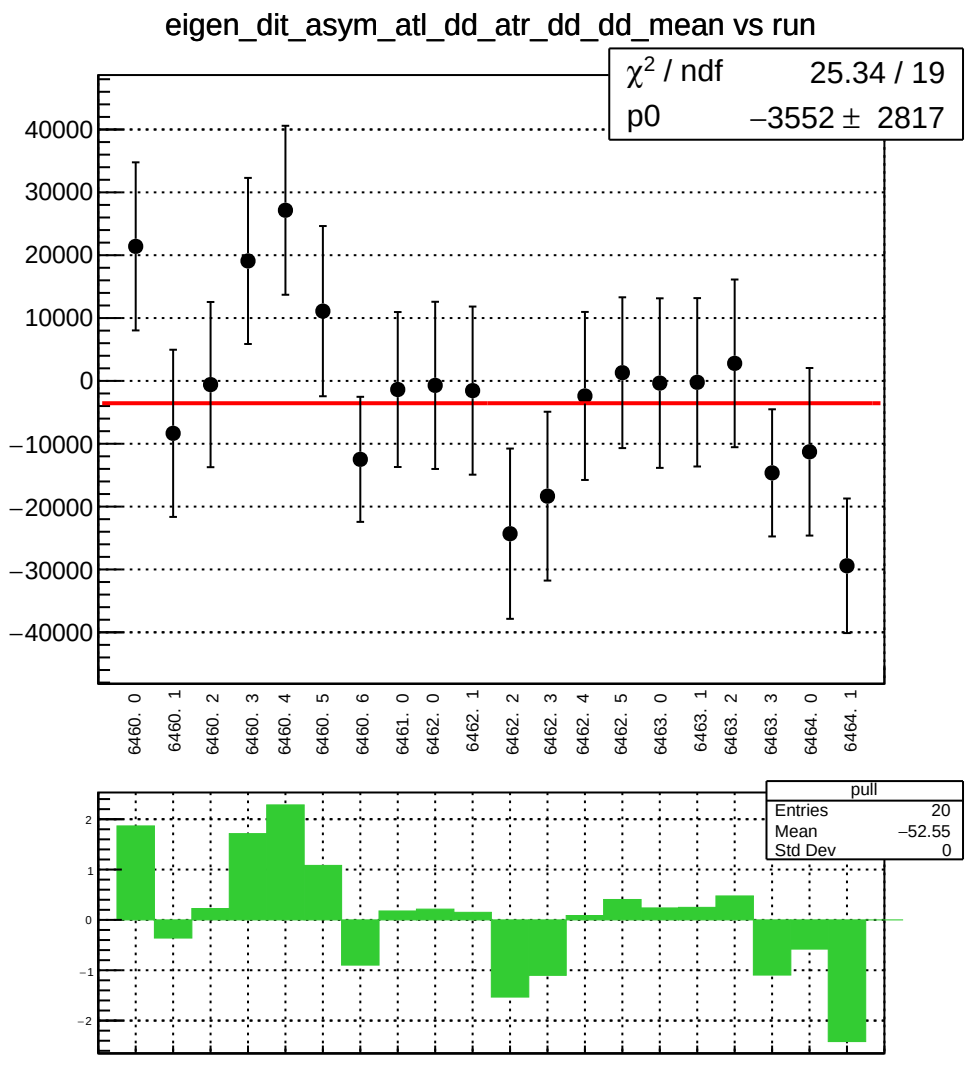

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 25.34 / 19
p0 −3552 ± 2817
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.55
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.05913
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

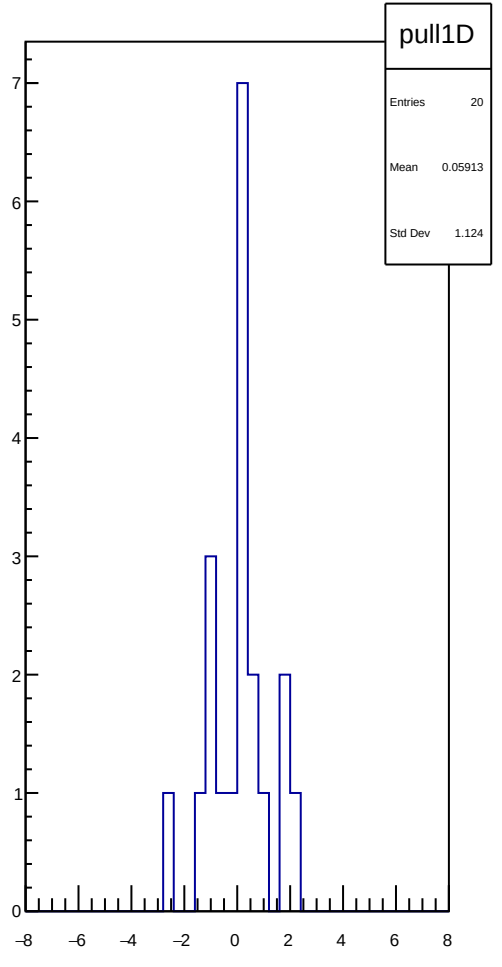

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 19.95 / 19
p0 1268 ± 1.992
1300
1290
1280
1270
1260
1250
1240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

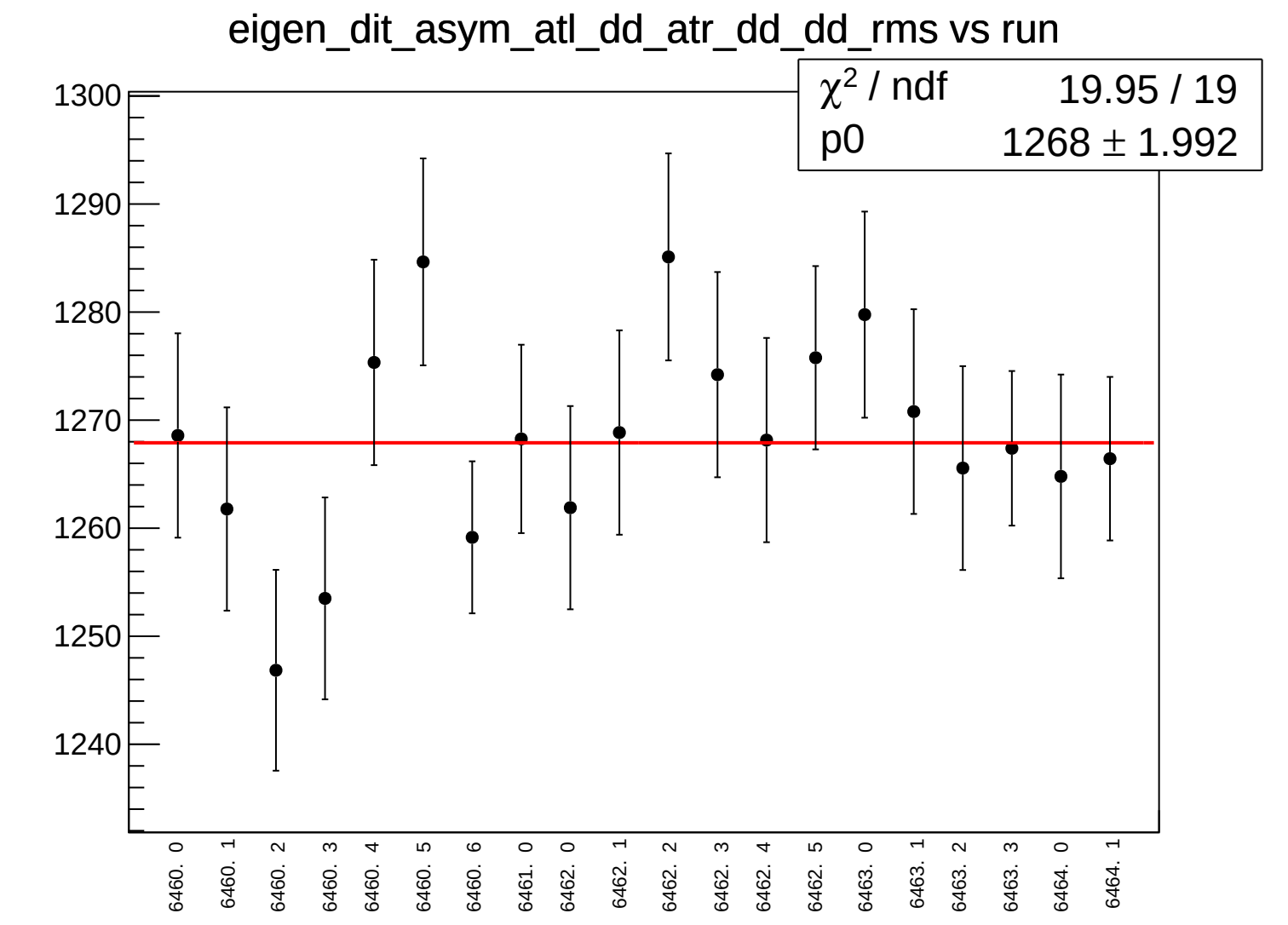

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 7.403 / 19
p0 −221.3 ± 1485
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 793.3
Std Dev 0
1
0.5
0
−0.5
−1

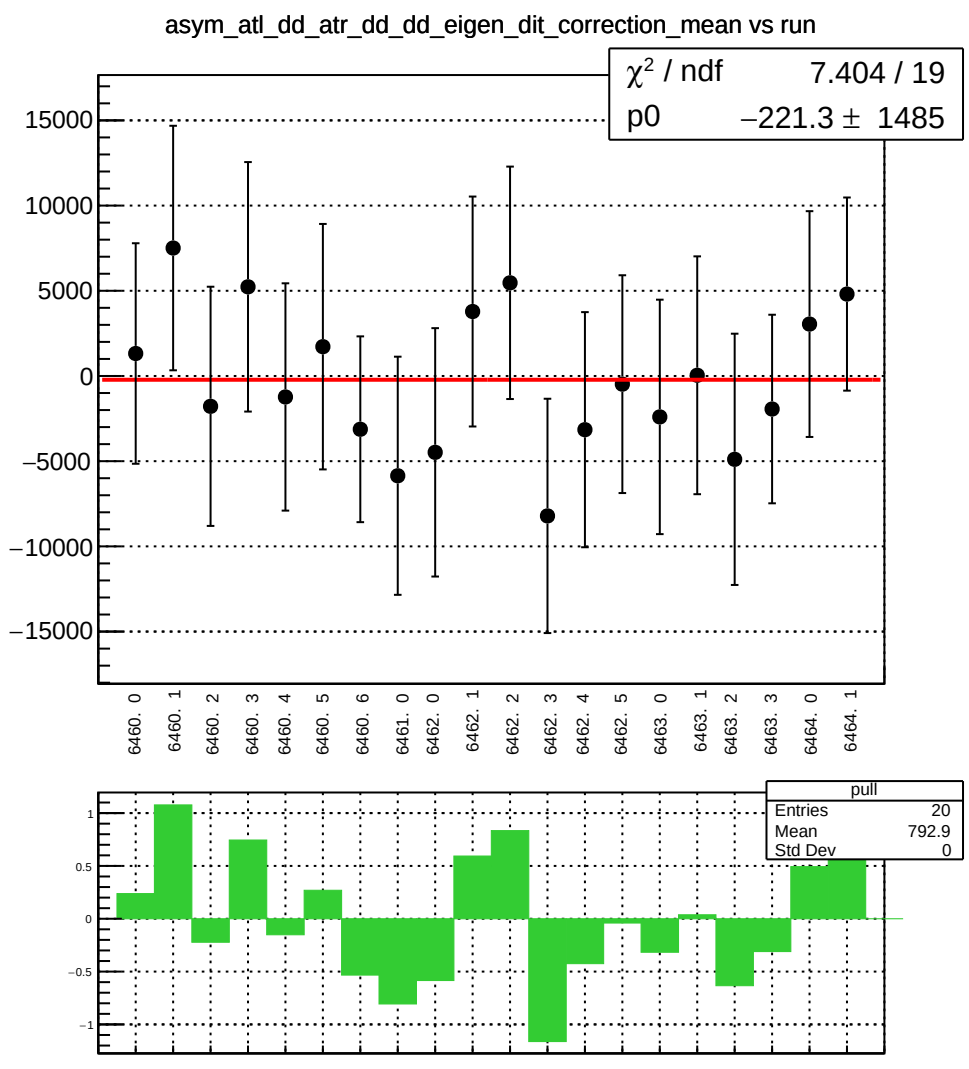

pull1D
Entries 20
Mean −0.0005161
Std Dev 0.6084
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

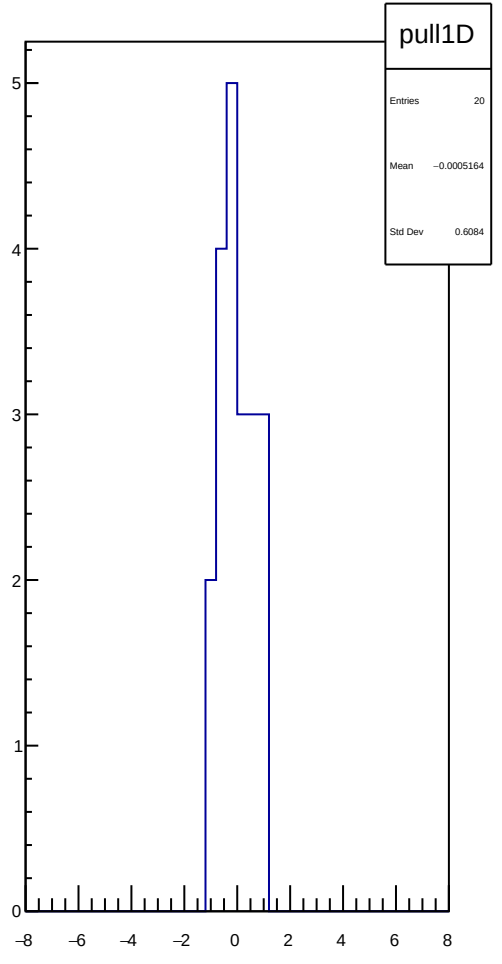

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 635.1 / 19
p0 667.7 ± 1.05
720
700
680
660
640
620
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

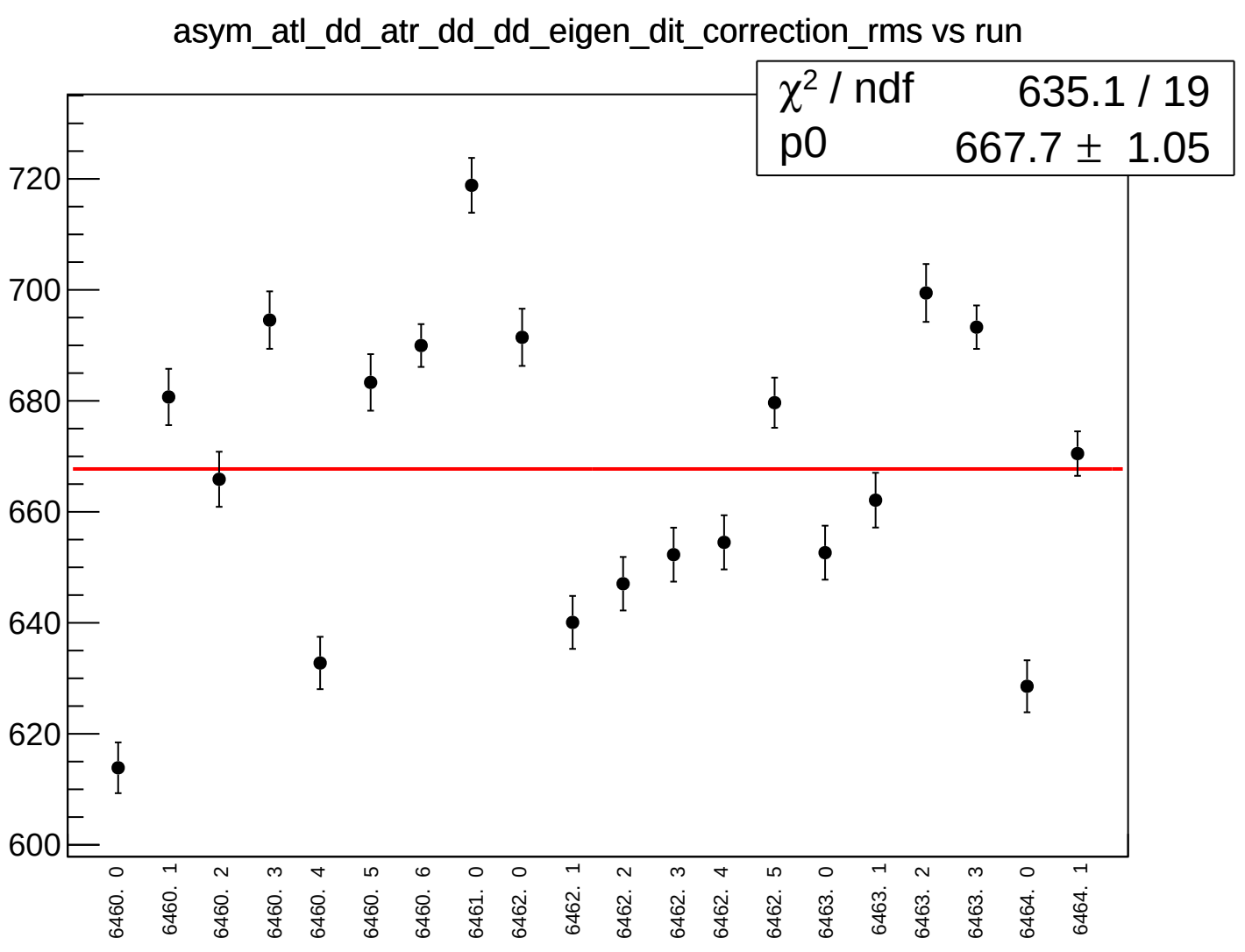

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 25.34 / 19
p0 −3552 ± 2817
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.55
Std Dev 0
2
1
0
−1
−2

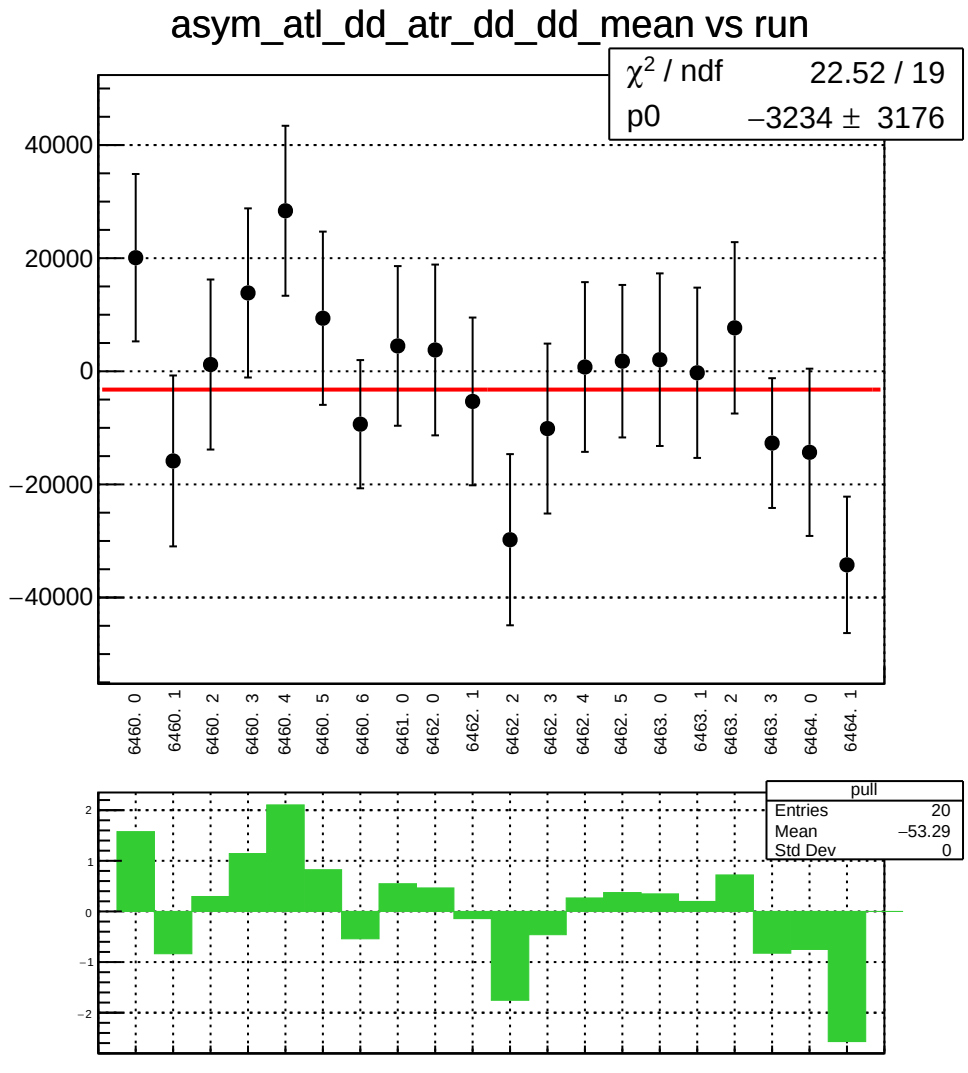

pull1D
Entries 20
Mean 0.05913
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

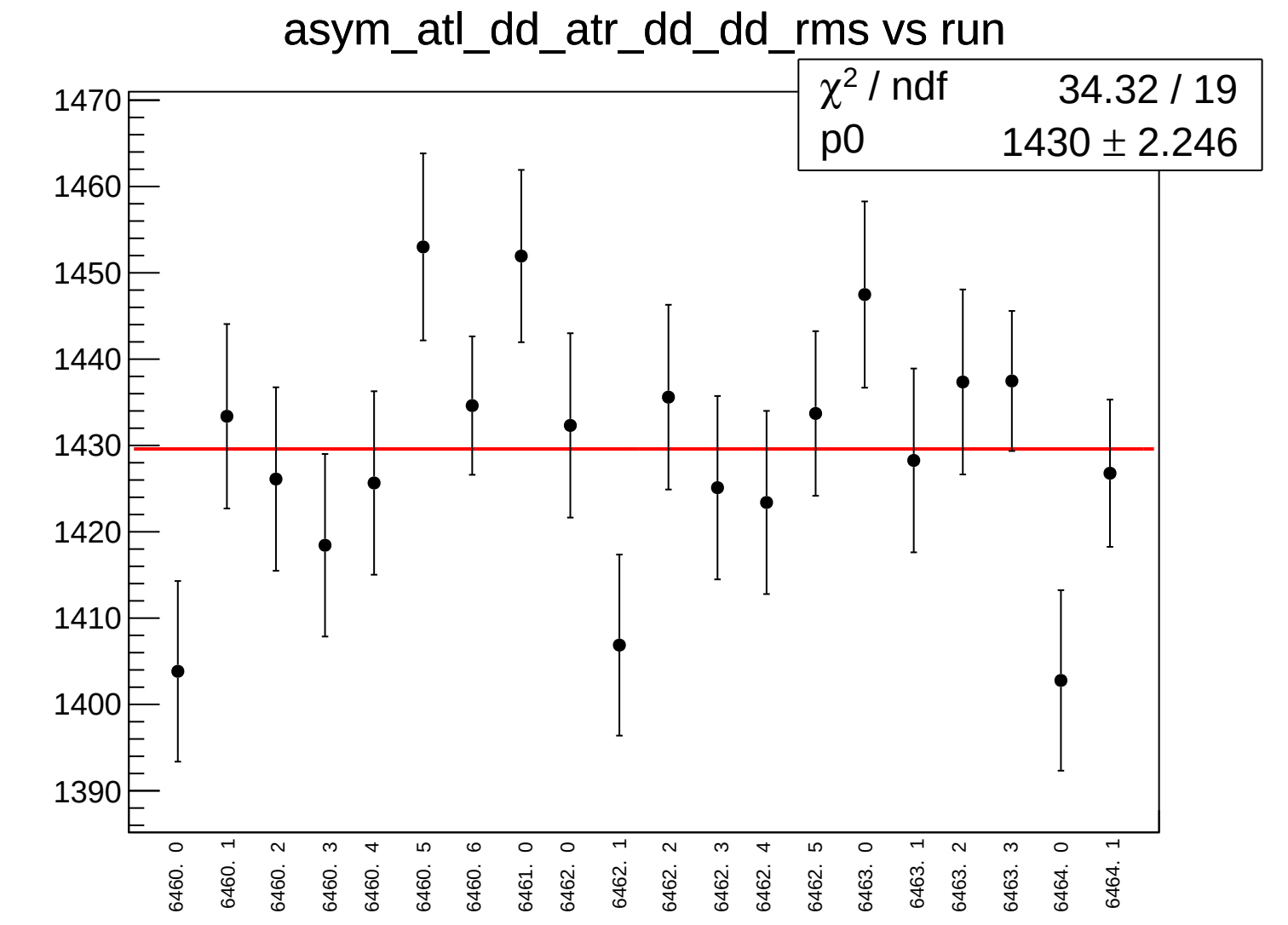

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 19.95 / 19
p0 1268 ± 1.992
1300
1290
1280
1270
1260
1250
1240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

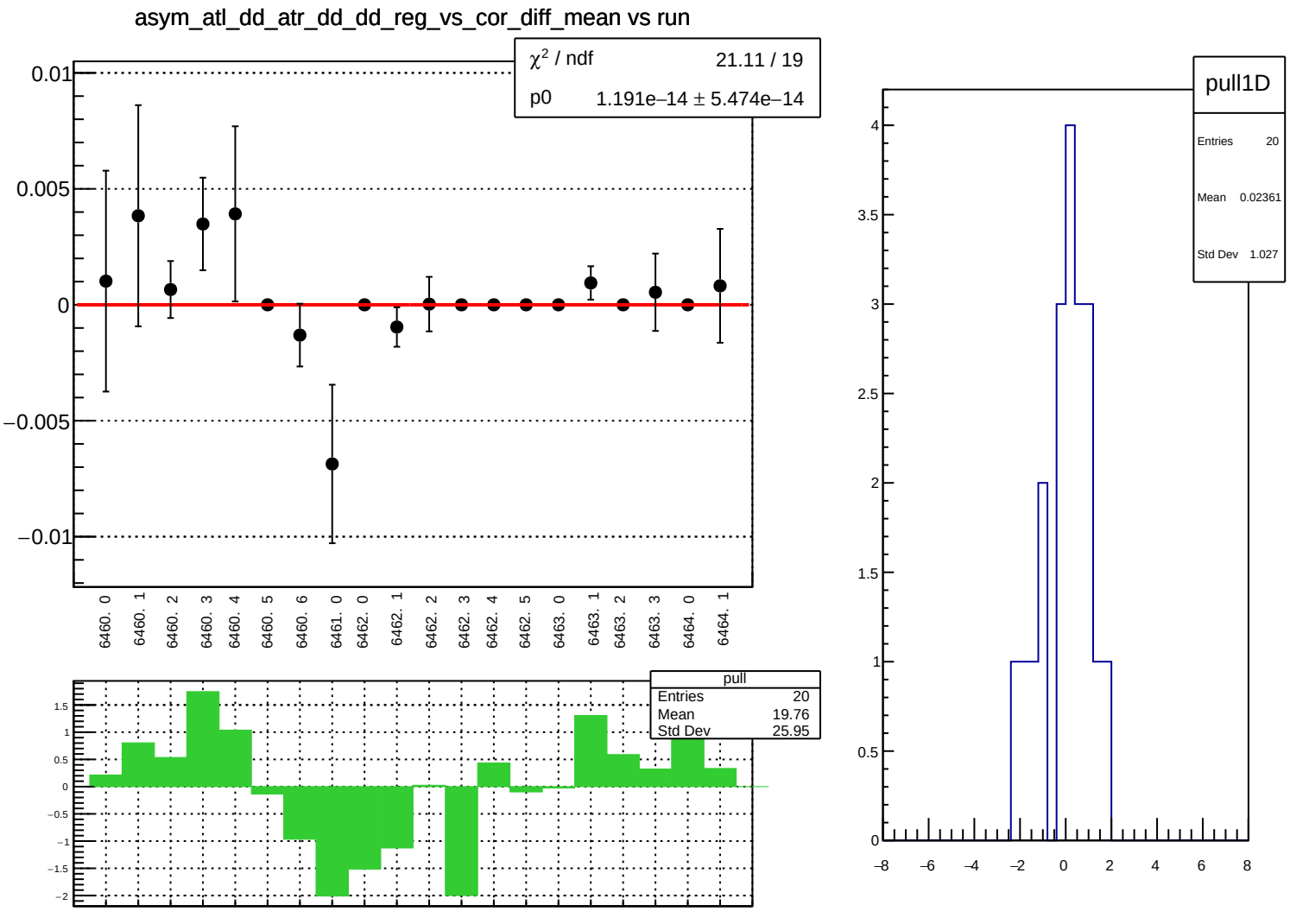

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 7.404 / 19
p0 −221.3 ± 1485
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 792.9
Std Dev 0
1
0.5
0
−0.5
−1

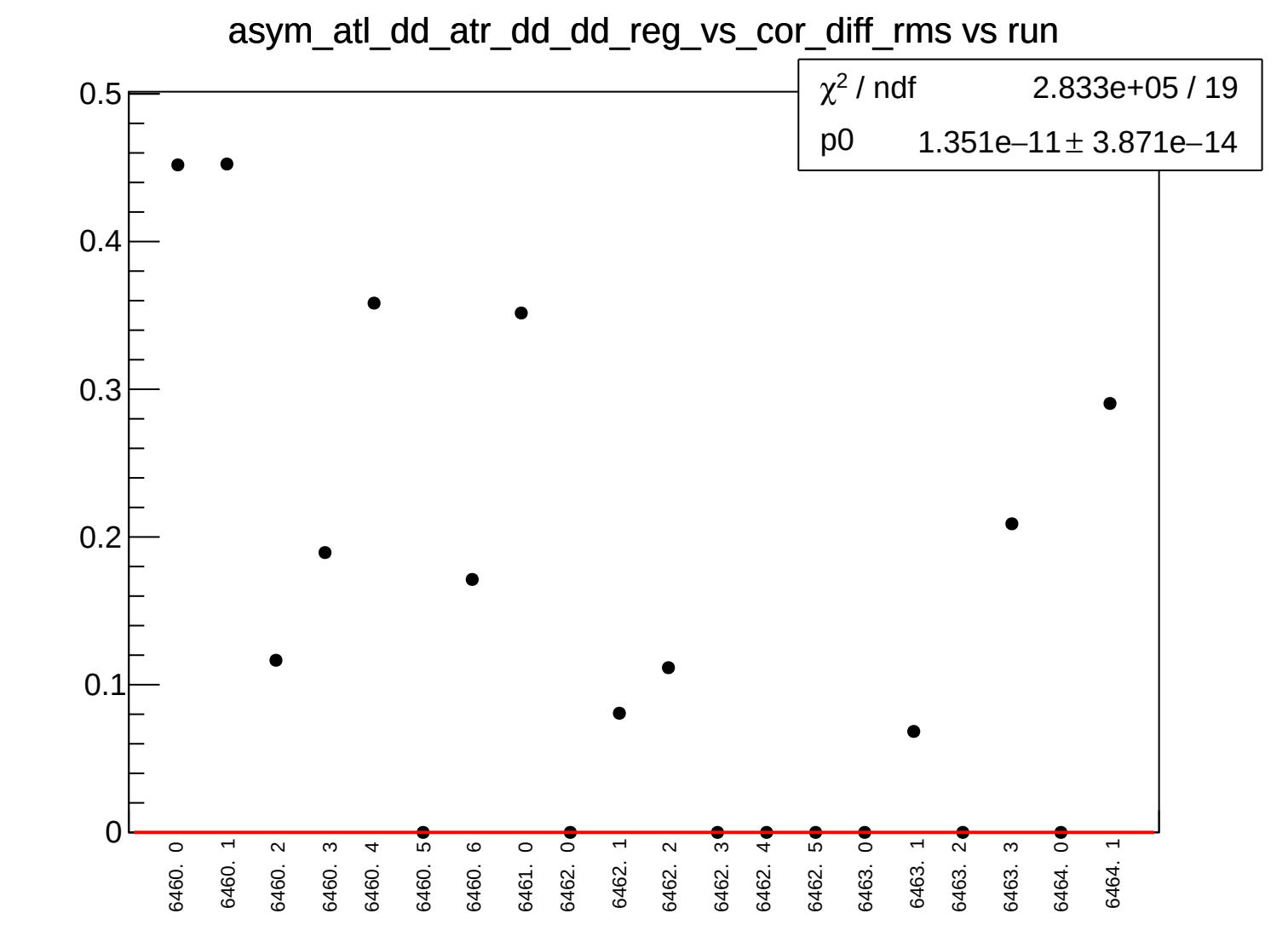

pull1D
Entries 20
Mean −0.0005164
Std Dev 0.6084
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

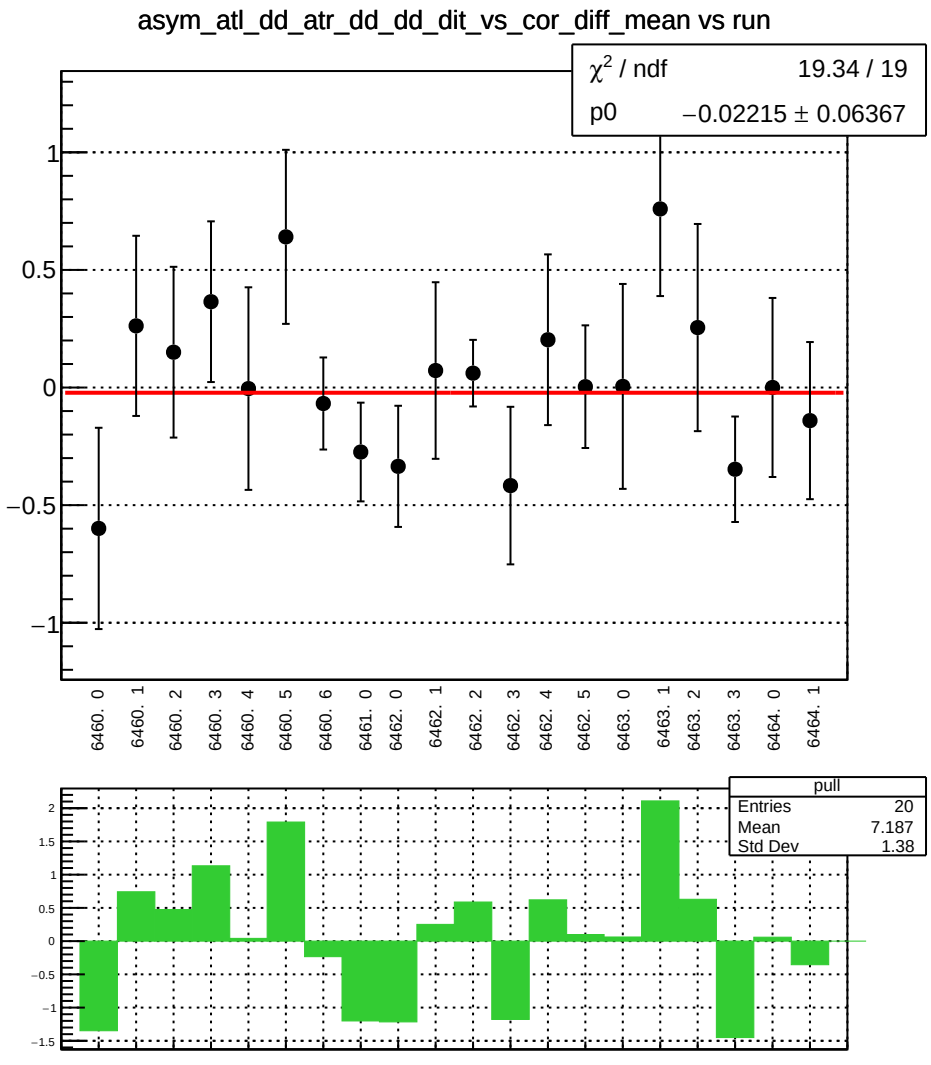

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 635.1 / 19
p0 667.7 ± 1.05
720
700
680
660
640
620
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

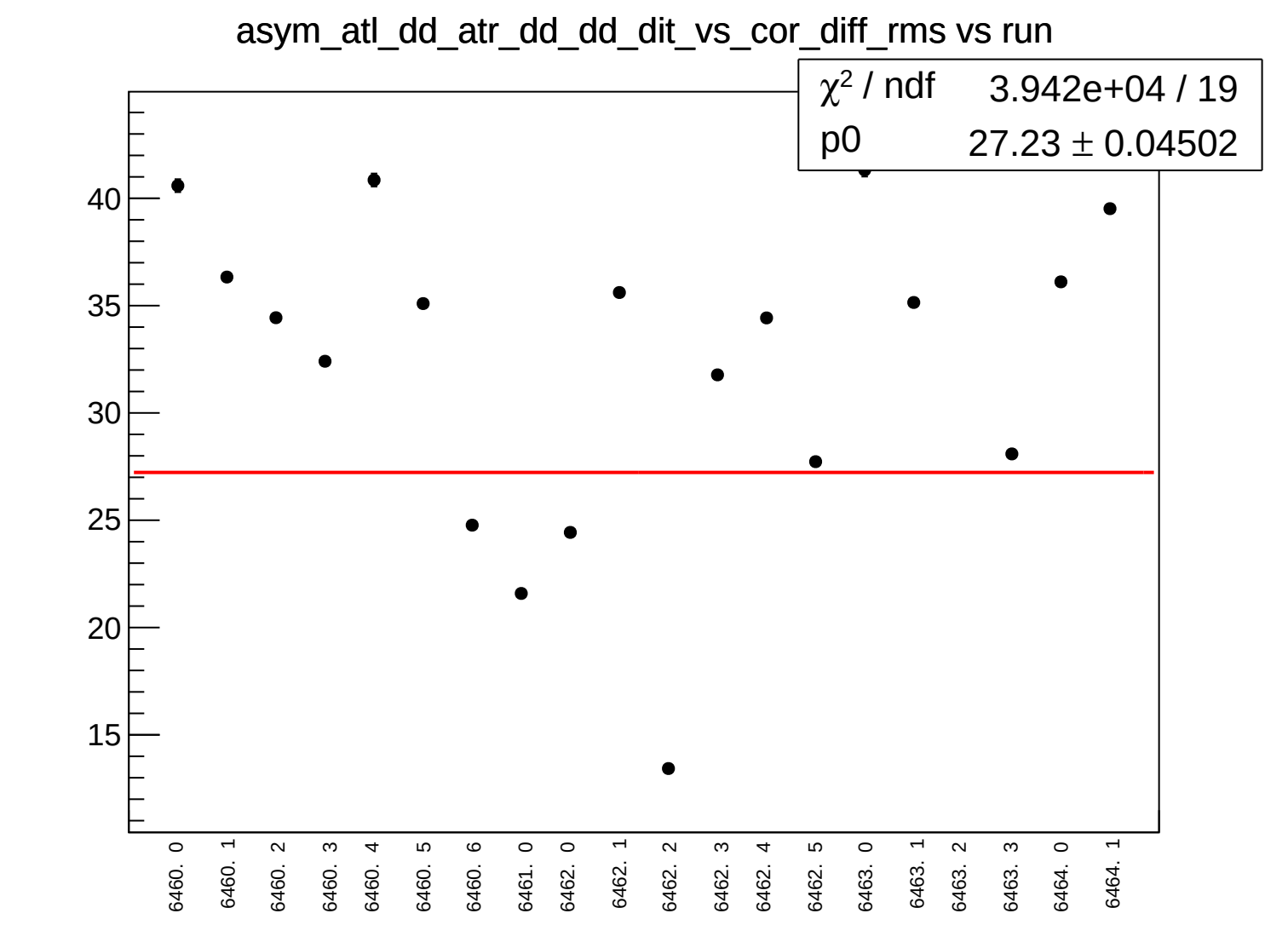

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 22.52 / 19
p0 −3234 ± 3176
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.29
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.04909
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 34.32 / 19
p0 1430 ± 2.246
1470
1460
1450
1440
1430
1420
1410
1400
1390
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

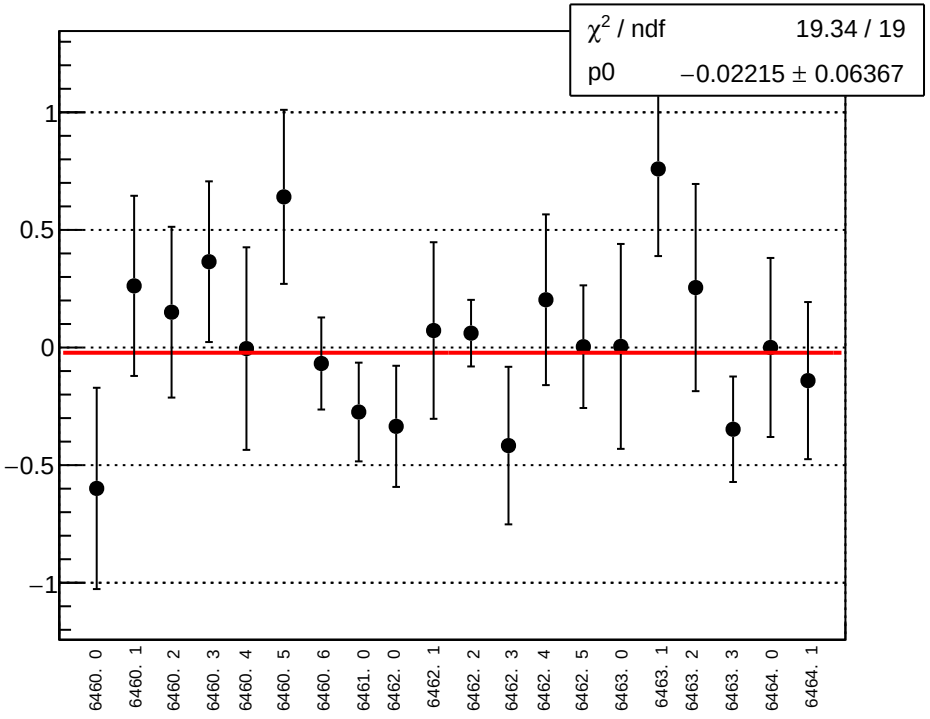

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.11 / 19
p0 1.191e−14 ± 5.474e−14
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.76
Std Dev 25.95
pull1D
Entries 20
Mean 0.02361
Std Dev 1.027

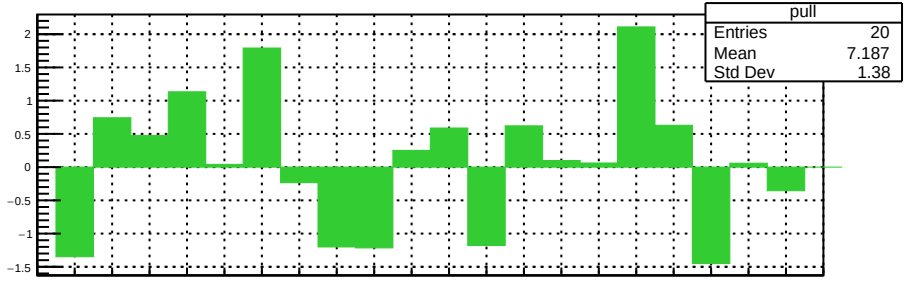

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.833e+05 / 19
p0 1.351e−11 ± 3.871e−14
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

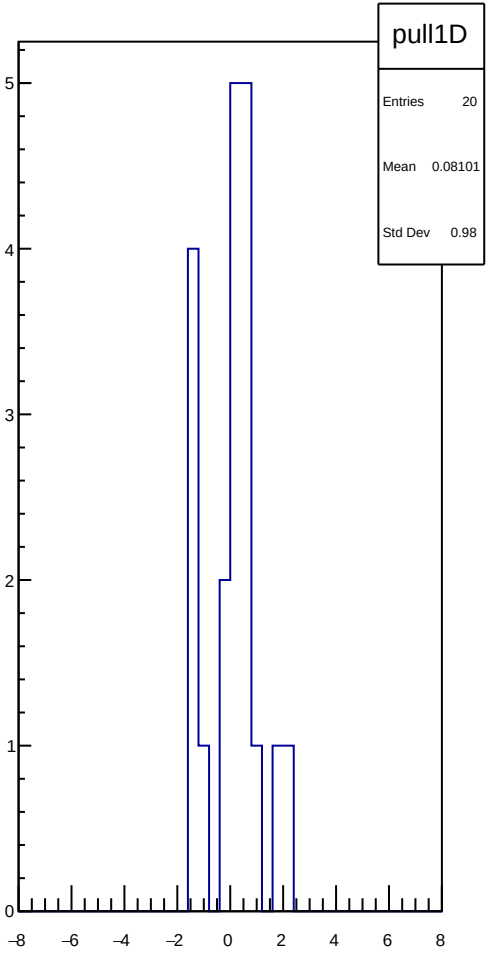

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 19.34 / 19
p0 −0.02215 ± 0.06367
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.187
Std Dev 1.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.08101
Std Dev 0.98
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

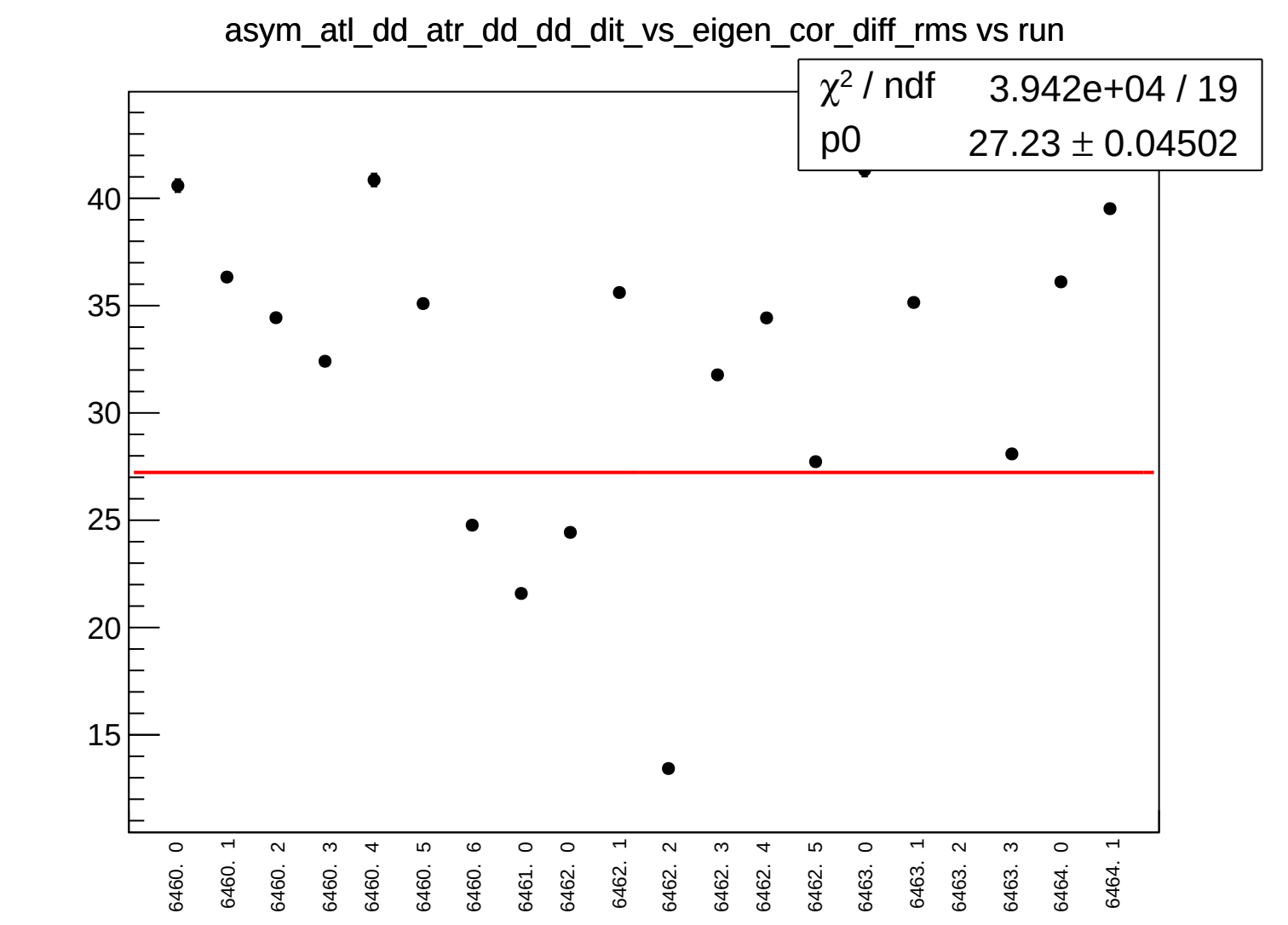

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.942e+04 / 19
p0 27.23 ± 0.04502
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

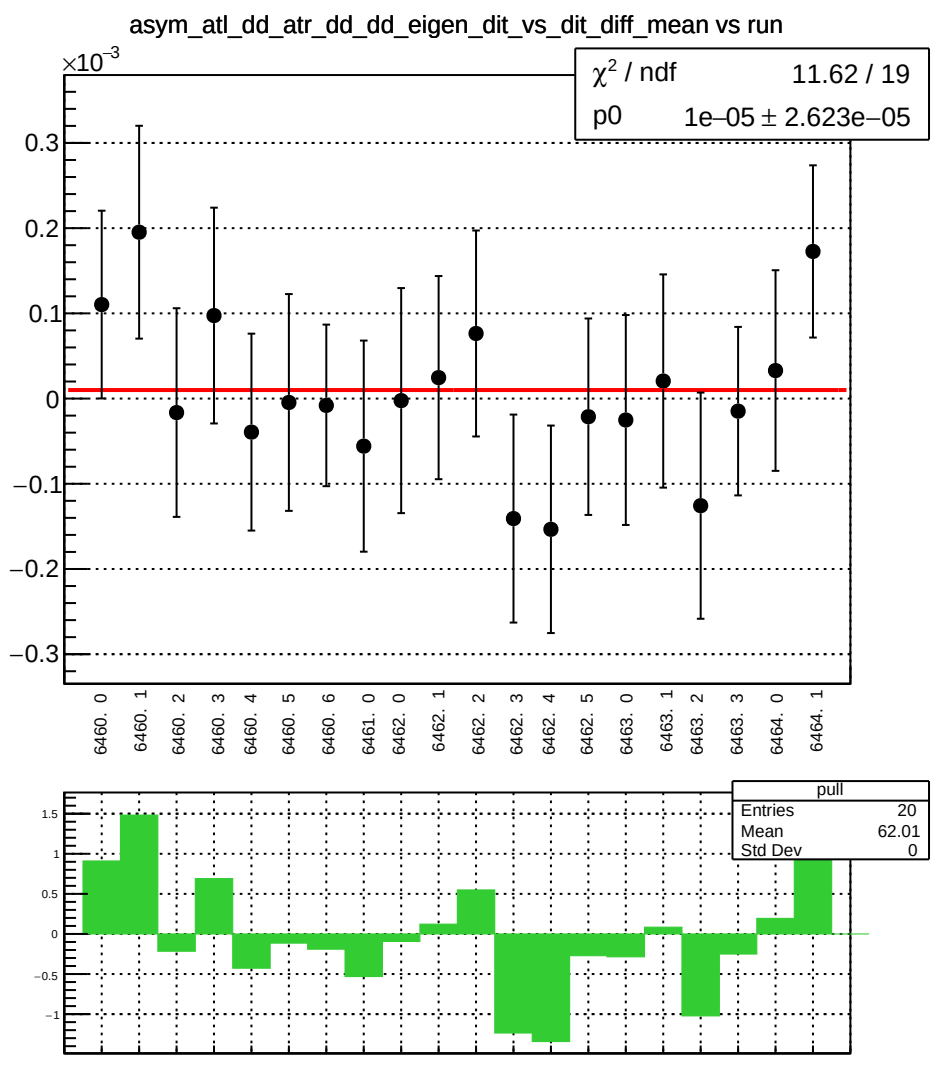
asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run

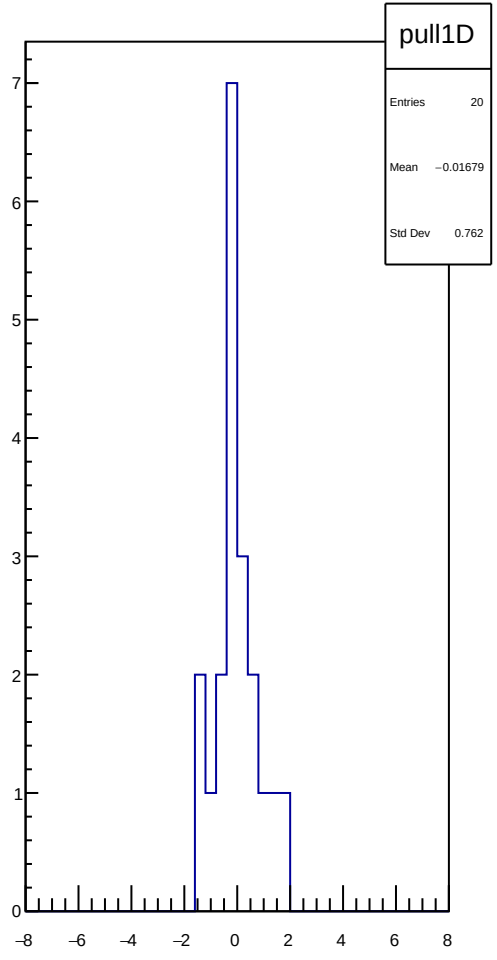


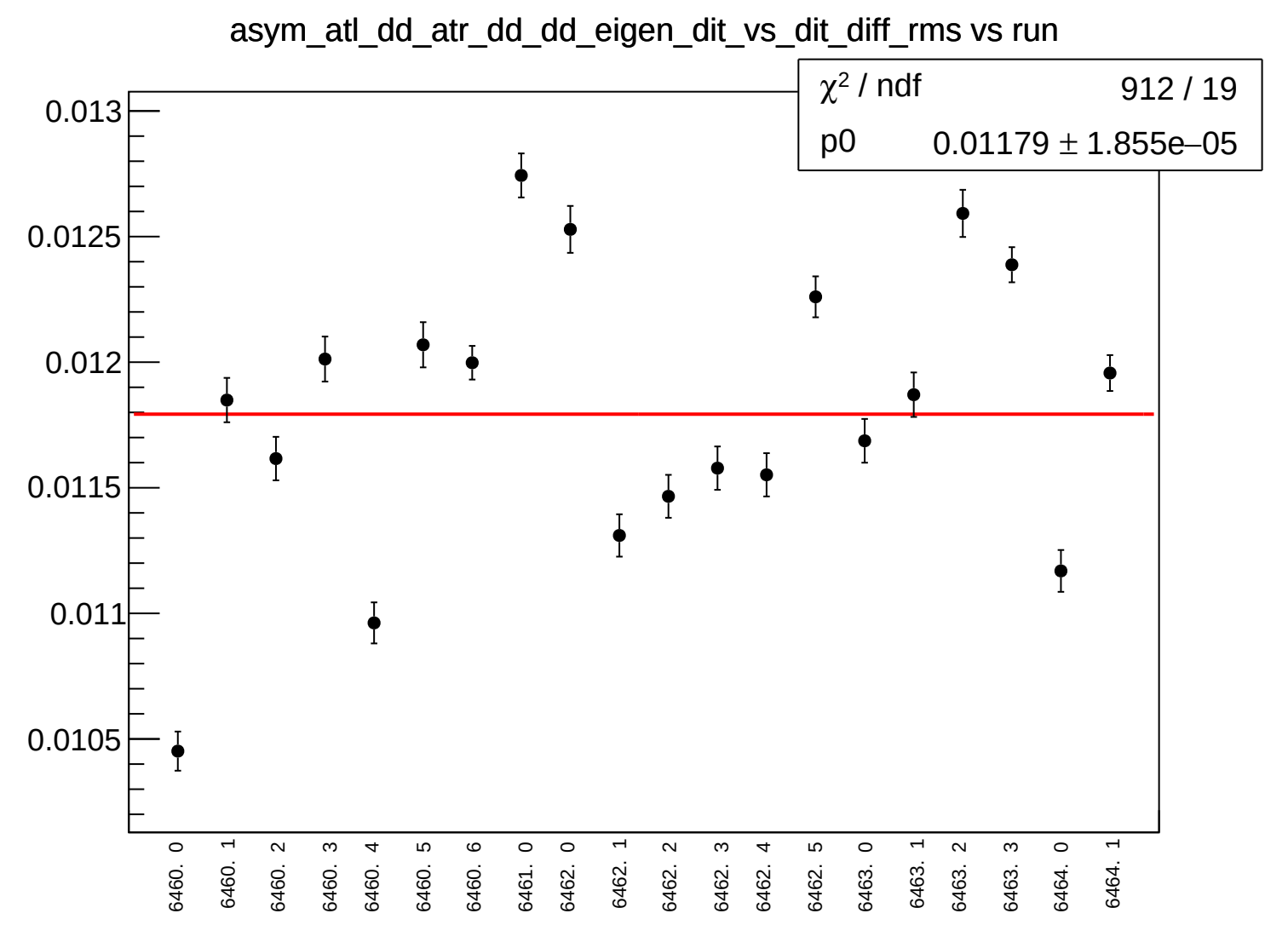


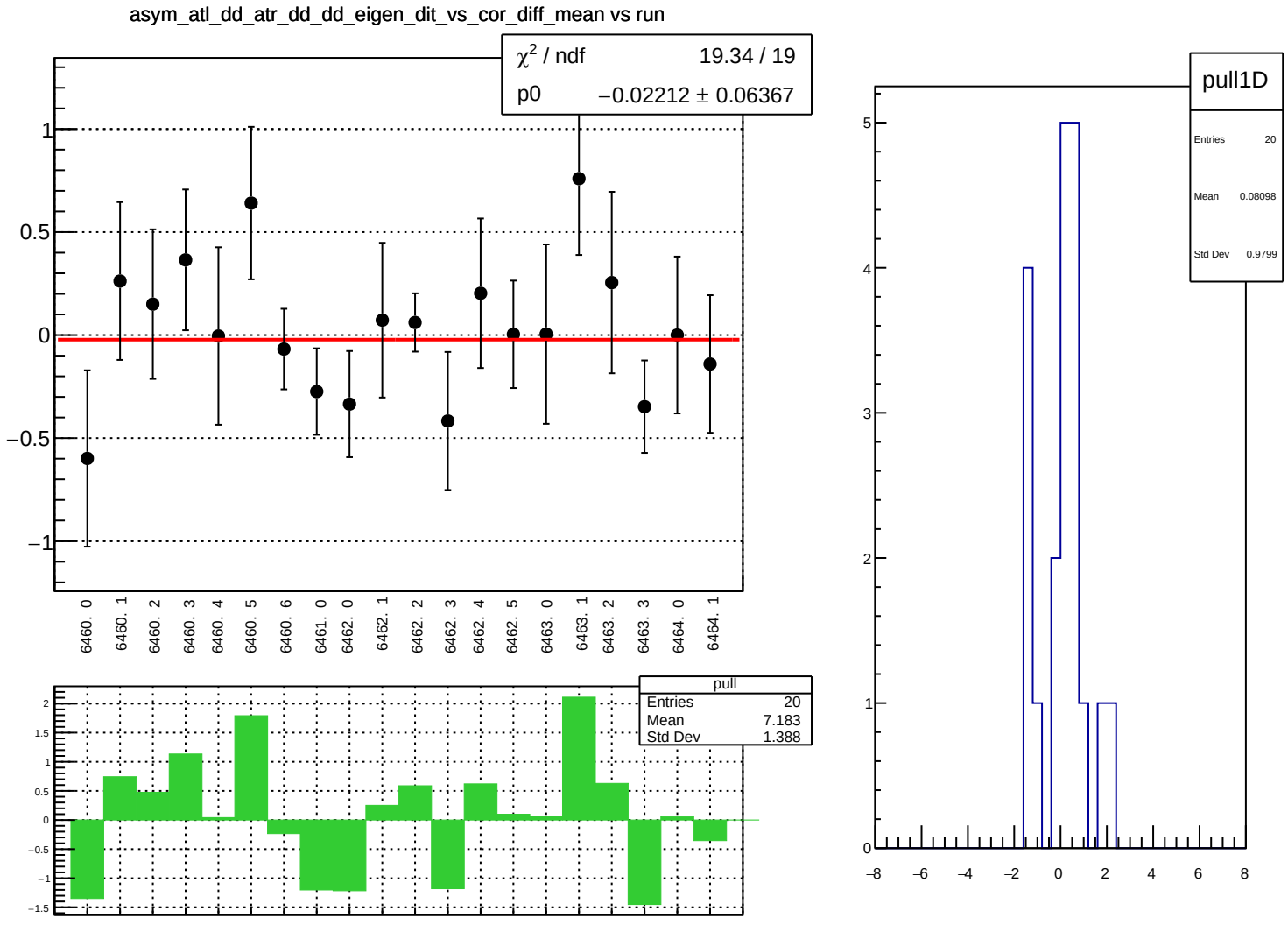


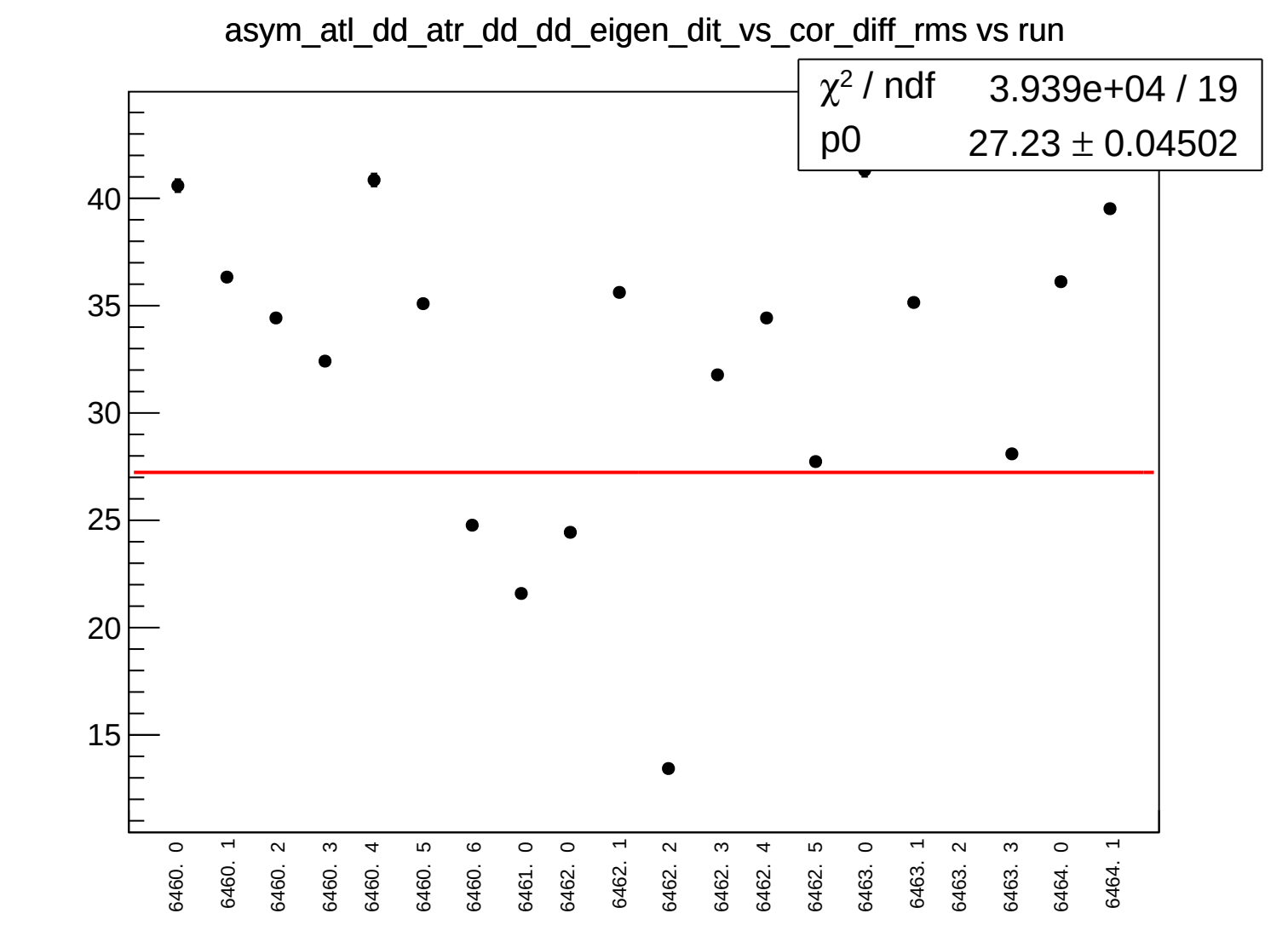

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.942e+04 / 19
p0 27.23 ± 0.04502
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

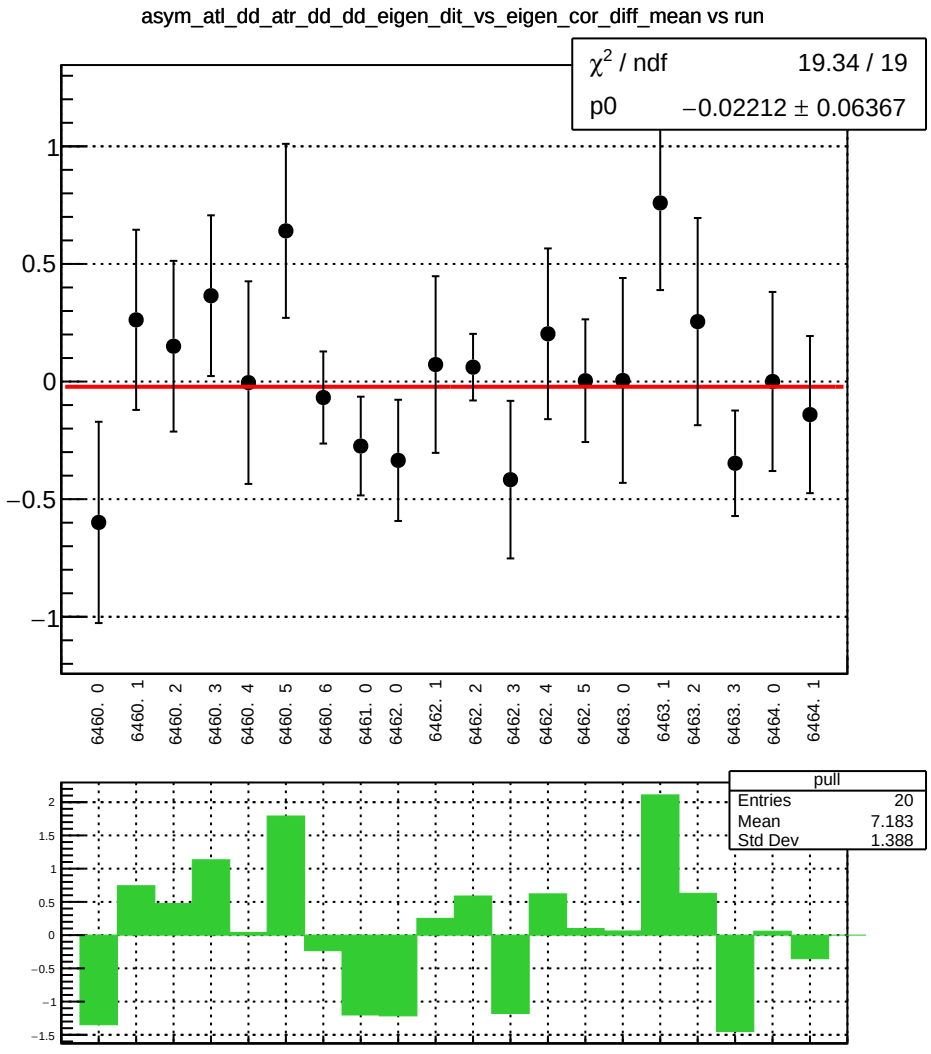

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.62 / 19
p0 1e−05 ± 2.623e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1

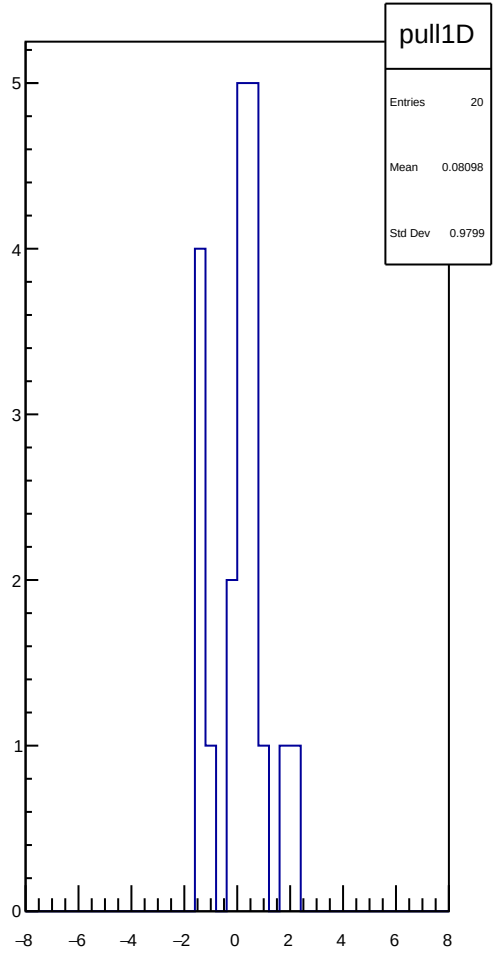

pull1D
Entries 20
Mean −0.01679
Std Dev 0.762
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

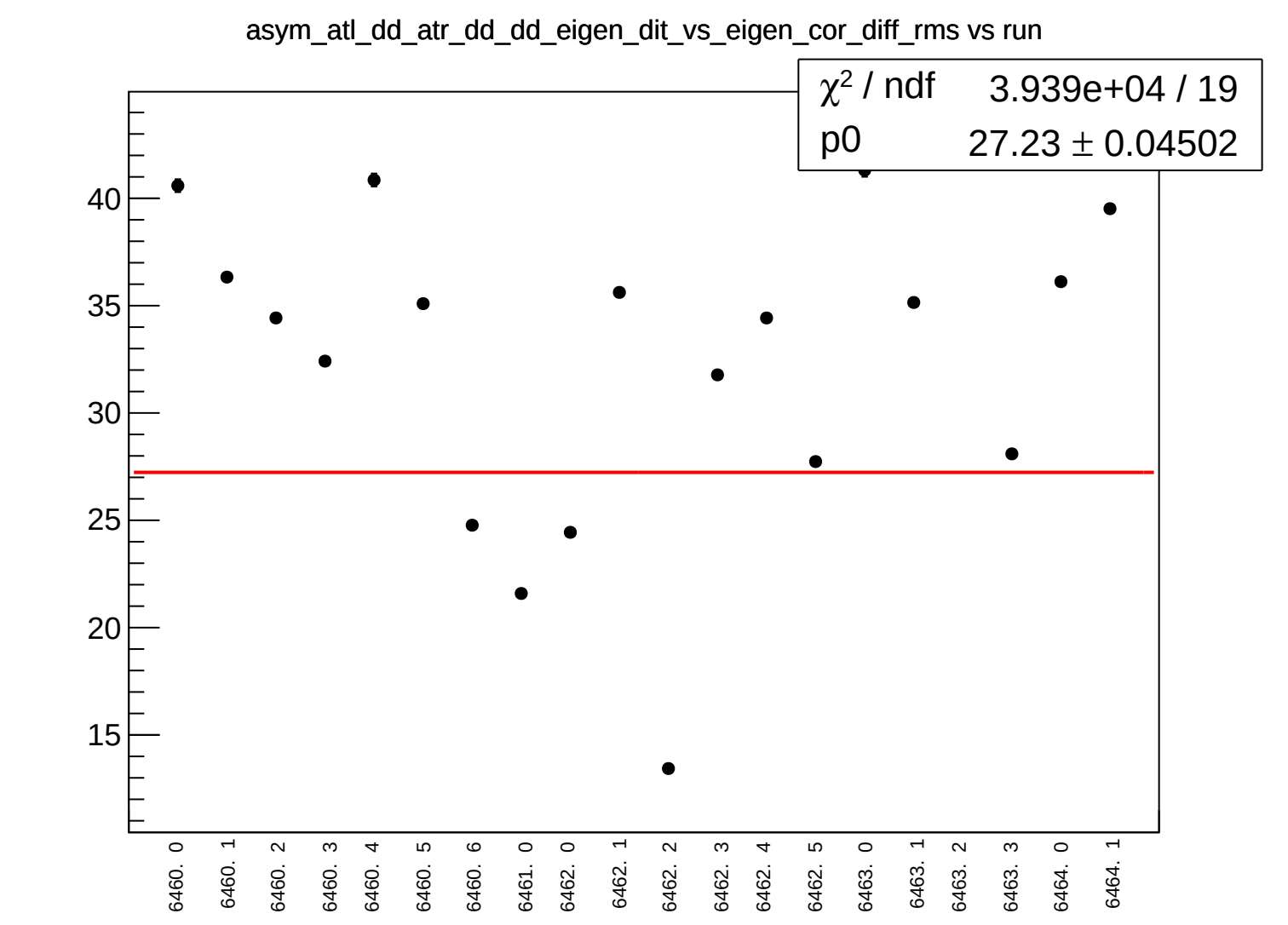

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 912 / 19
p0 0.01179 ± 1.855e−05
0.013
0.0125
0.012
0.0115
0.011
0.0105
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

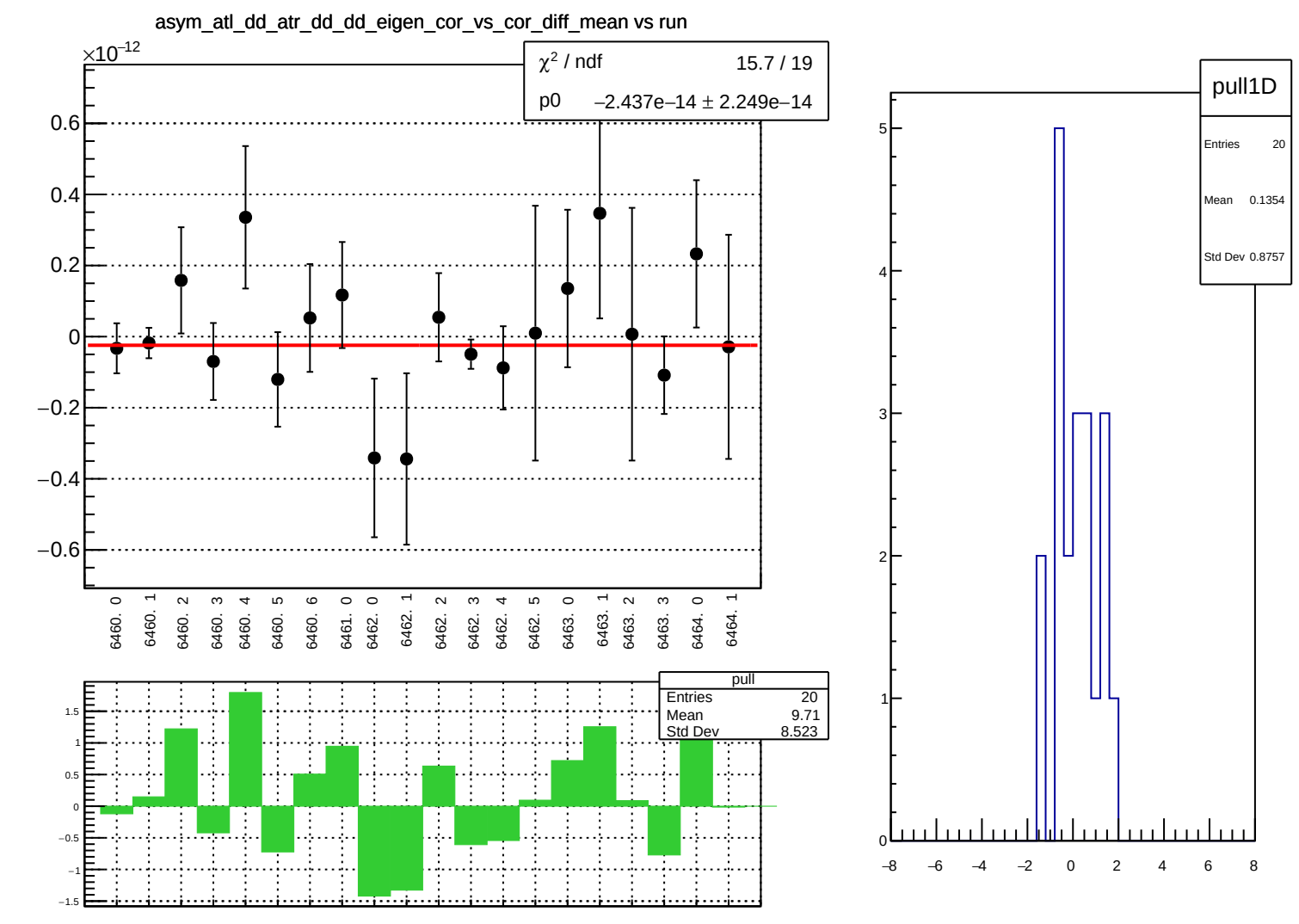

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.34 / 19
p0 −0.02212 ± 0.06367
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.183
Std Dev 1.388
pull1D
Entries 20
Mean 0.08098
Std Dev 0.9799

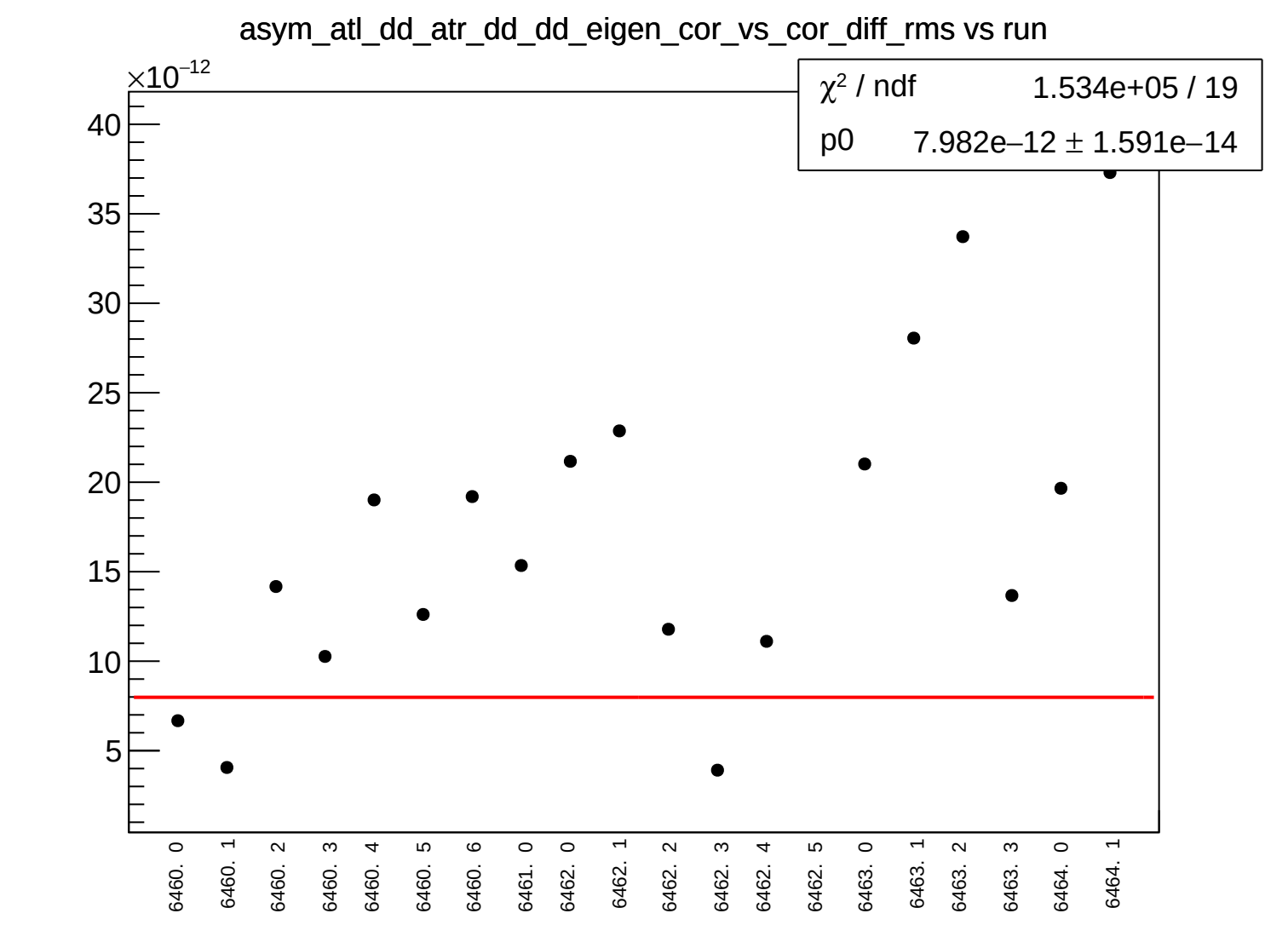

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.939e+04 / 19
p0 27.23 ± 0.04502
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

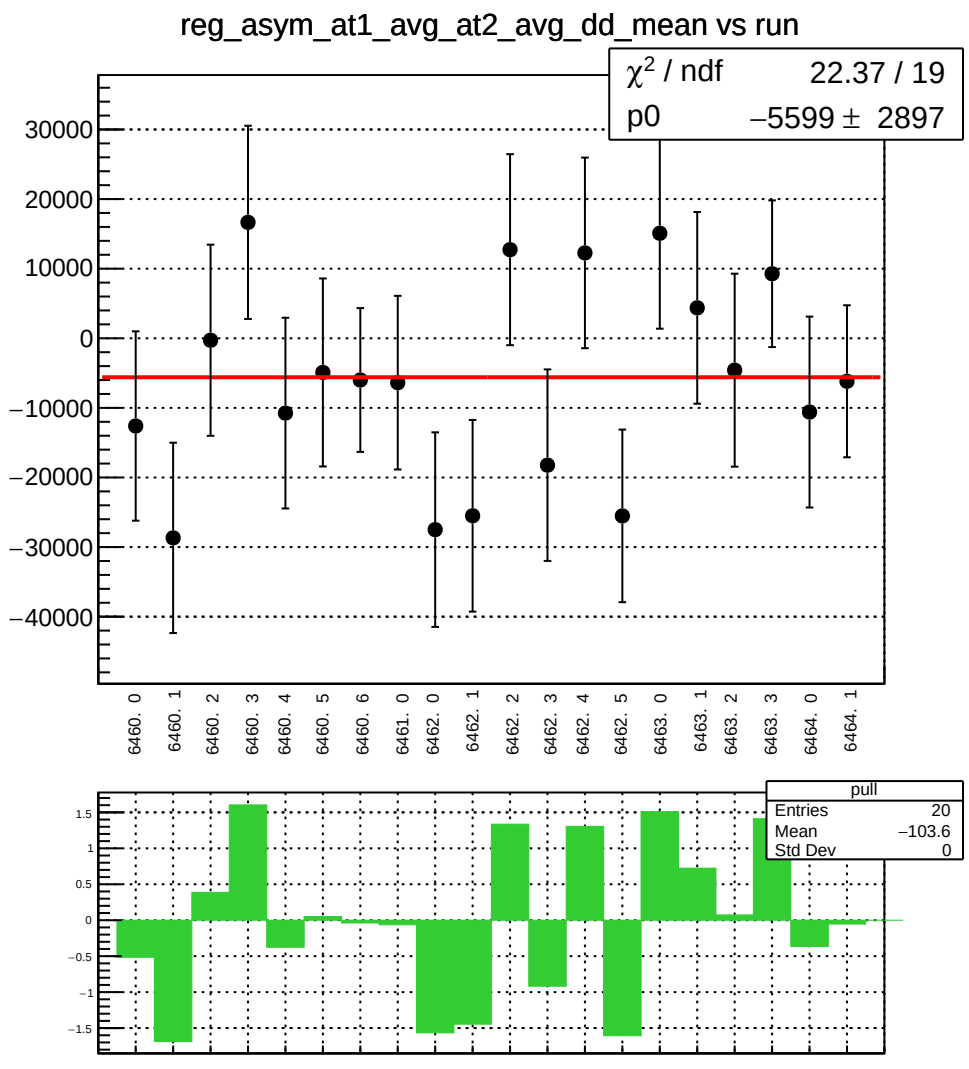

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.34 / 19
p0 −0.02212 ± 0.06367
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.183
Std Dev 1.388
2
1.5
1
0.5
0
−0.5
−1
−1.5

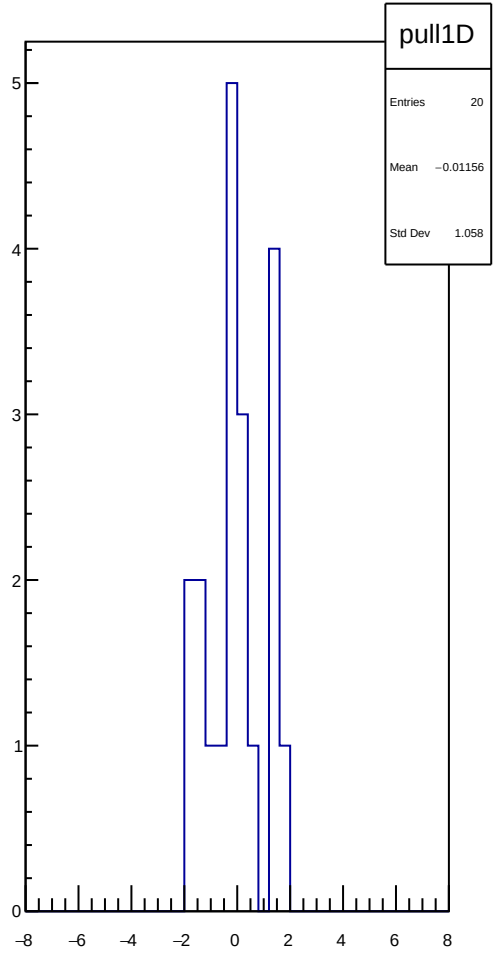

pull1D
Entries 20
Mean 0.08098
Std Dev 0.9799
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

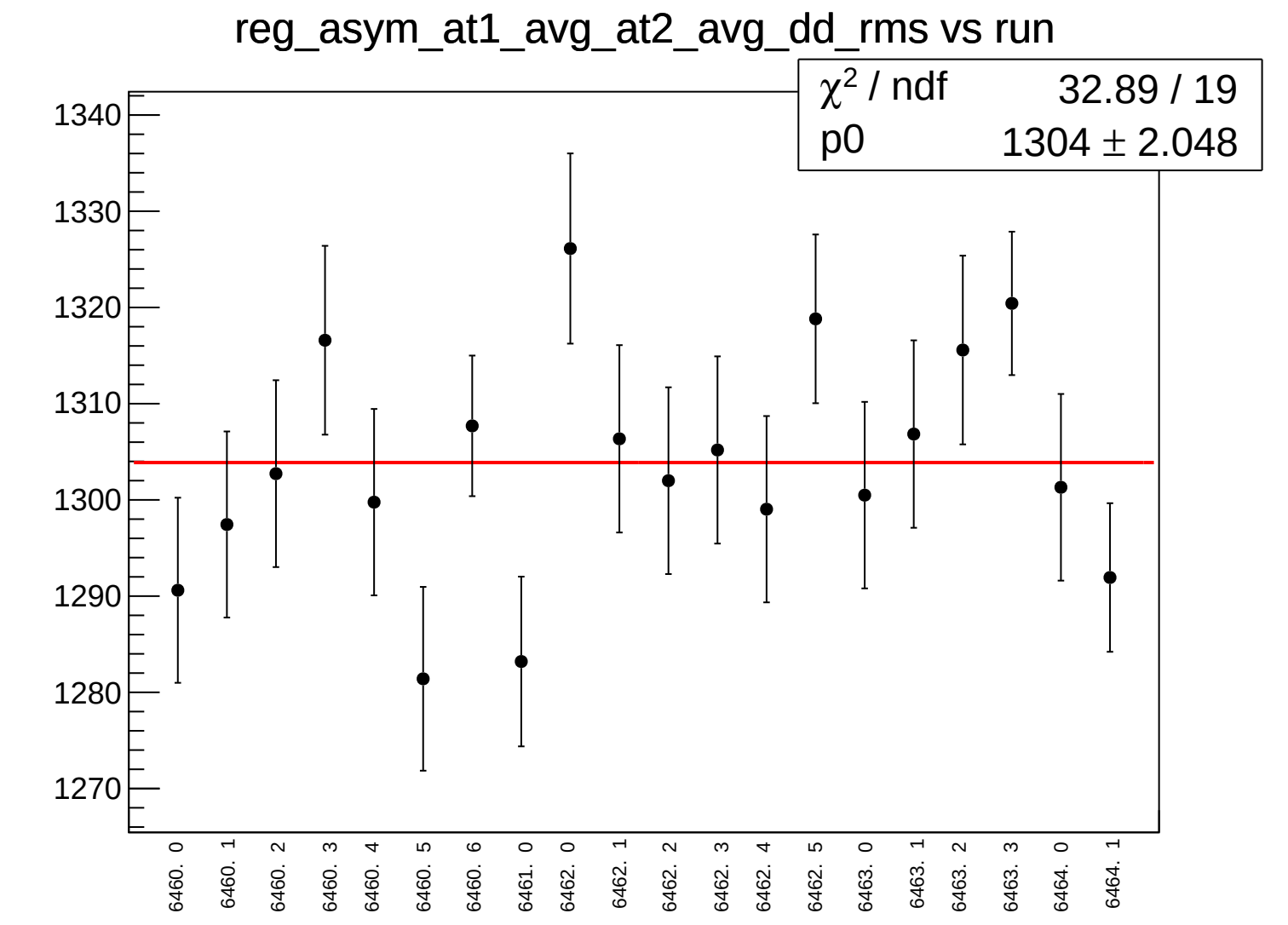

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.939e+04 / 19
p0 27.23 ± 0.04502
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

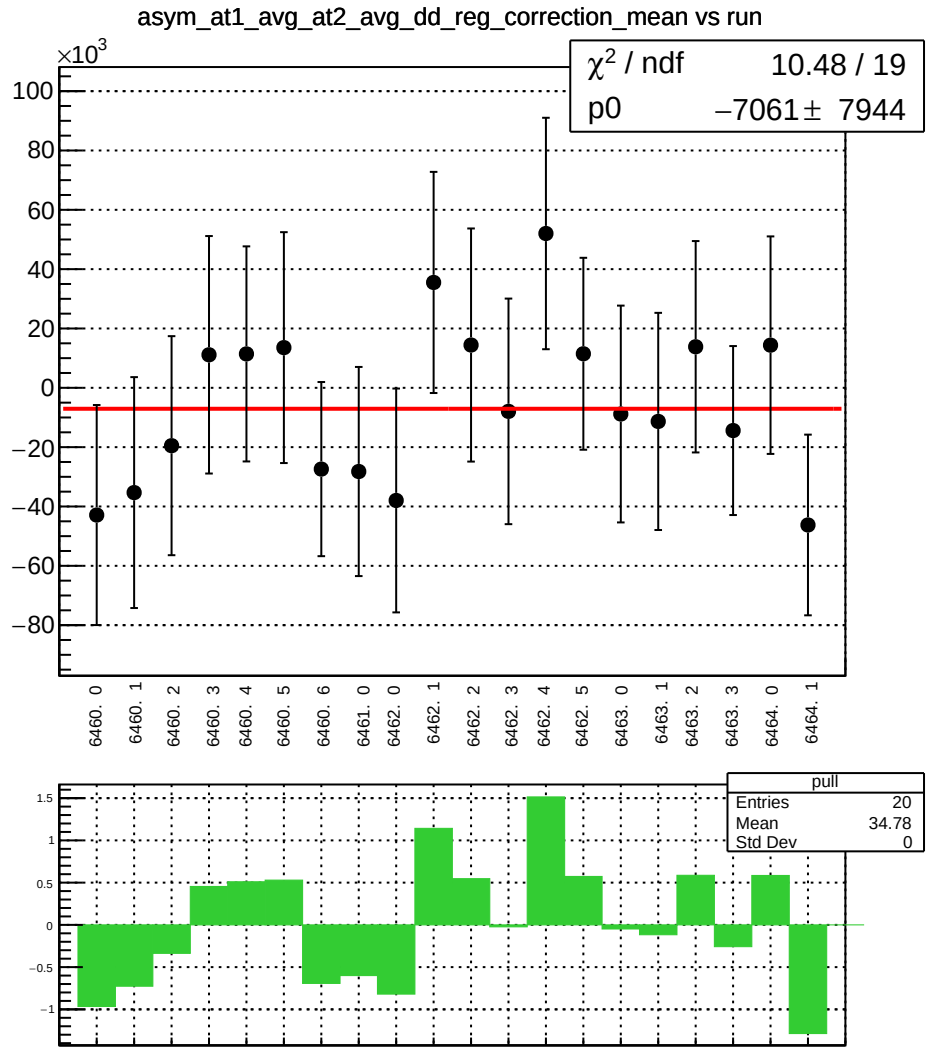

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 15.7 / 19
p0 −2.437e−14 ± 2.249e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.71
Std Dev 8.523
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.1354
Std Dev 0.8757
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

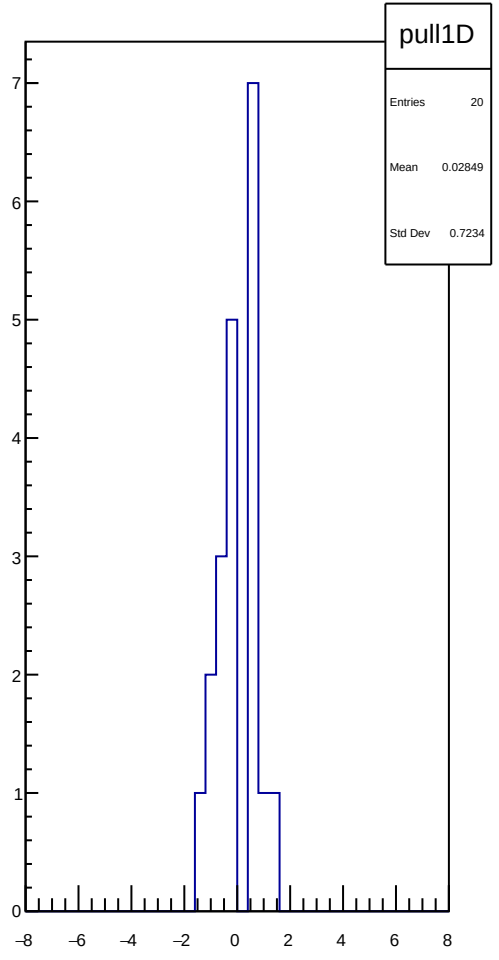

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.534e+05 / 19
p0 7.982e−12 ± 1.591e−14
40
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

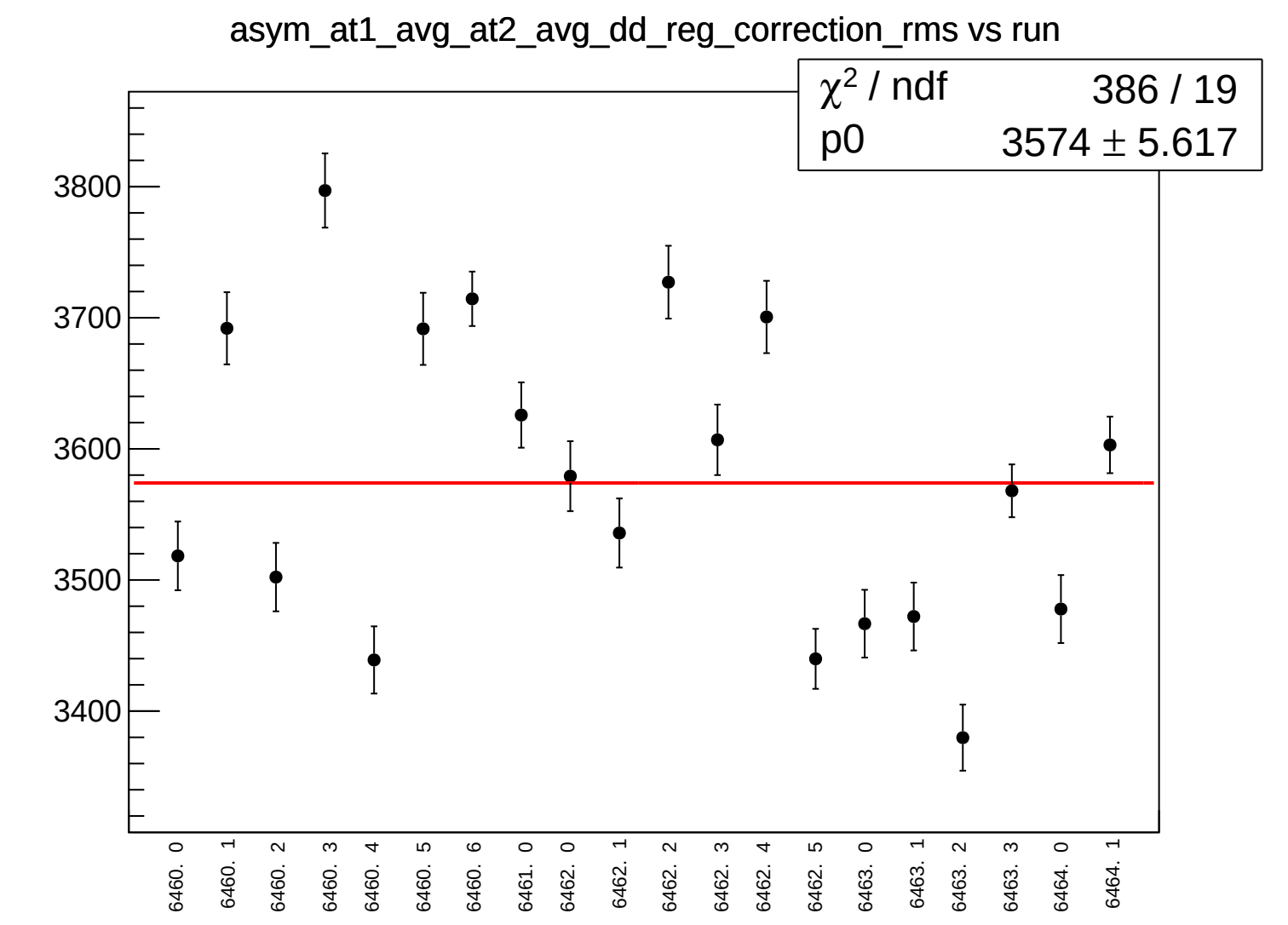

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 22.37 / 19
p0 −5599 ± 2897
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

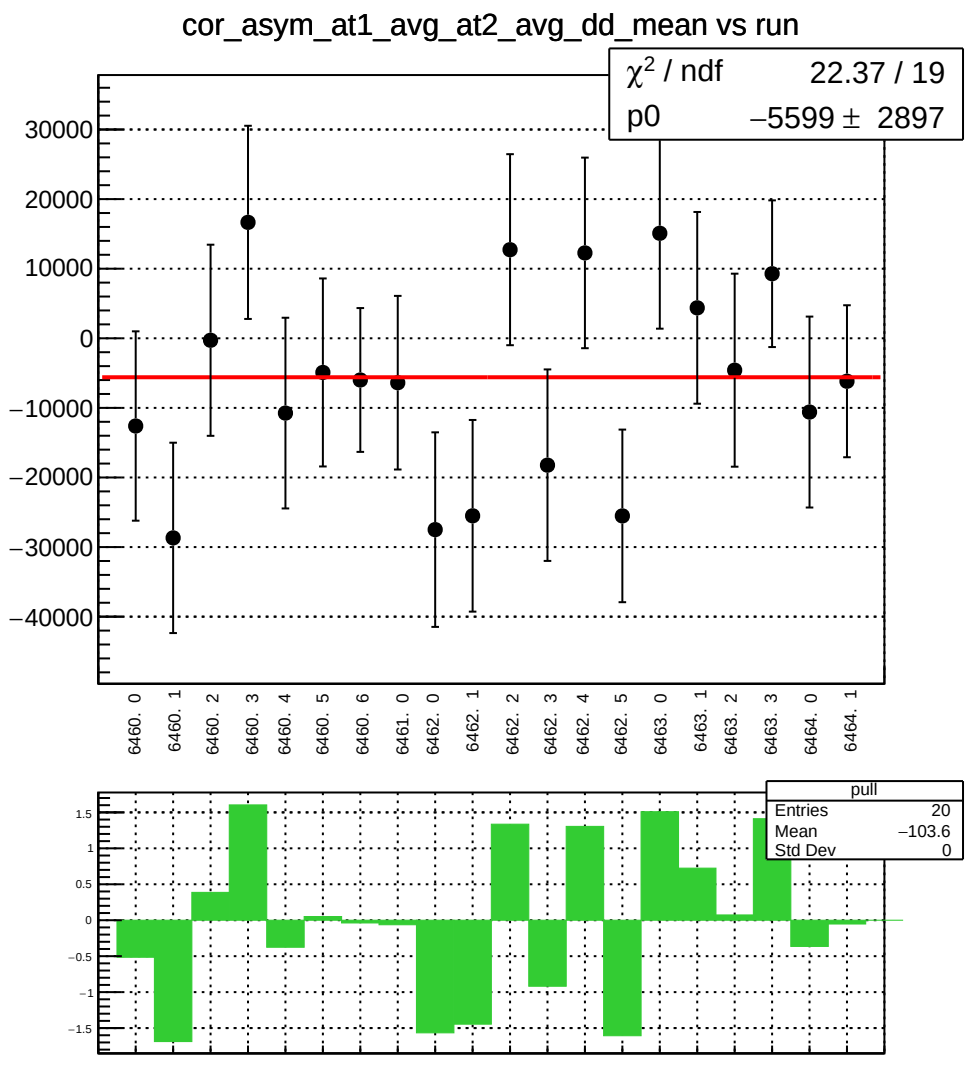

pull1D
Entries 20
Mean −0.01156
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

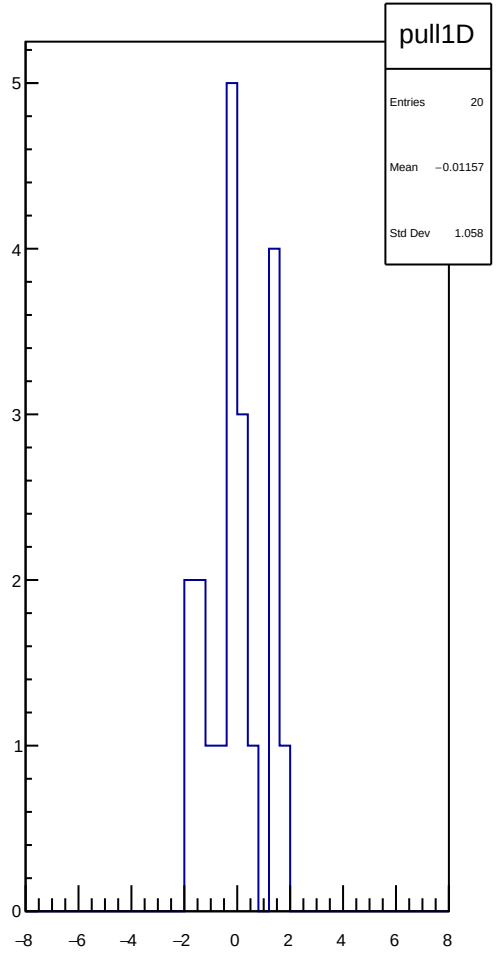

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 32.89 / 19
p0 1304 ± 2.048
1340
1330
1320
1310
1300
1290
1280
1270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

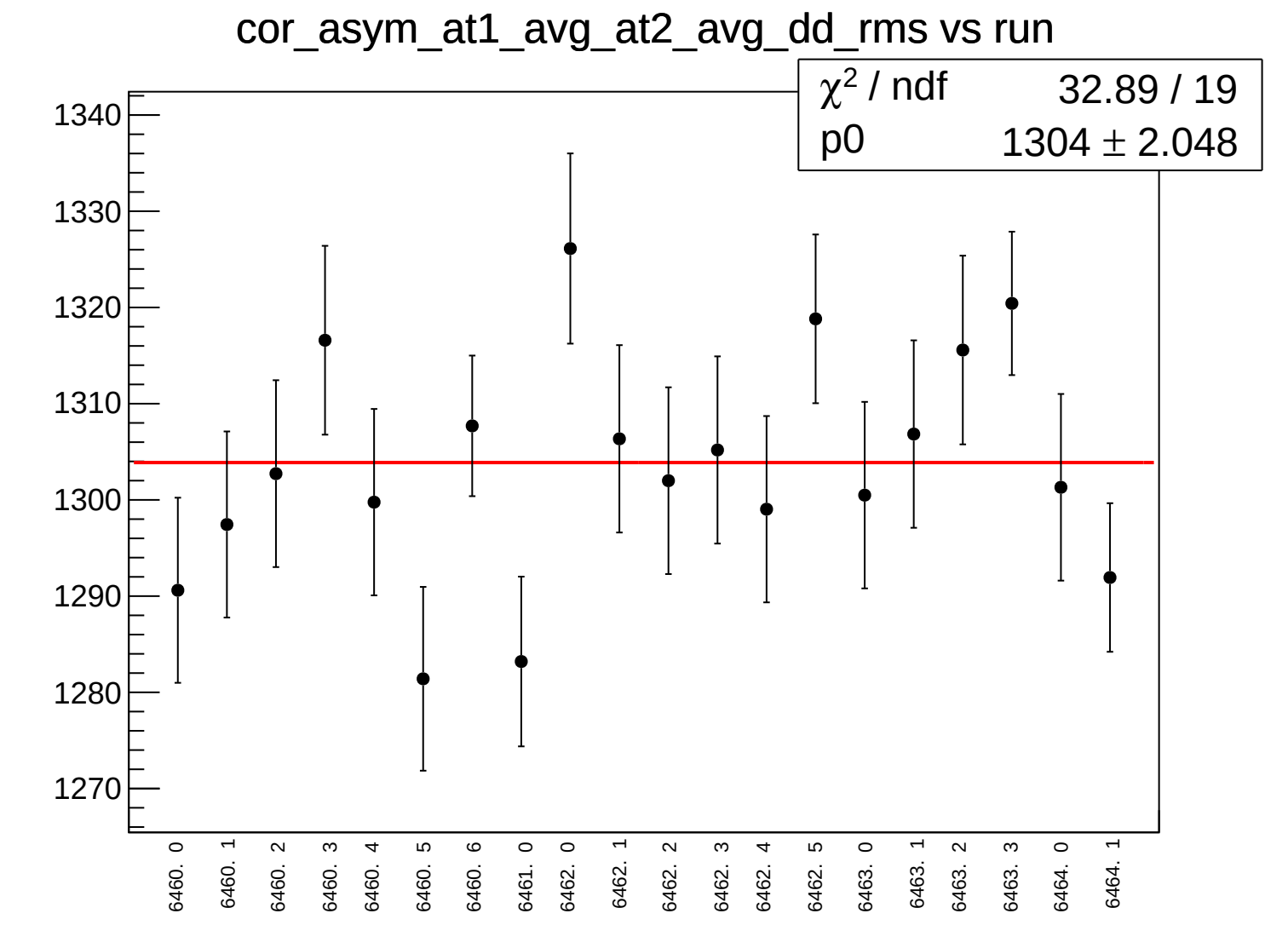

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 10.48 / 19
p0 −7061 ± 7944
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.02849
Std Dev 0.7234
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

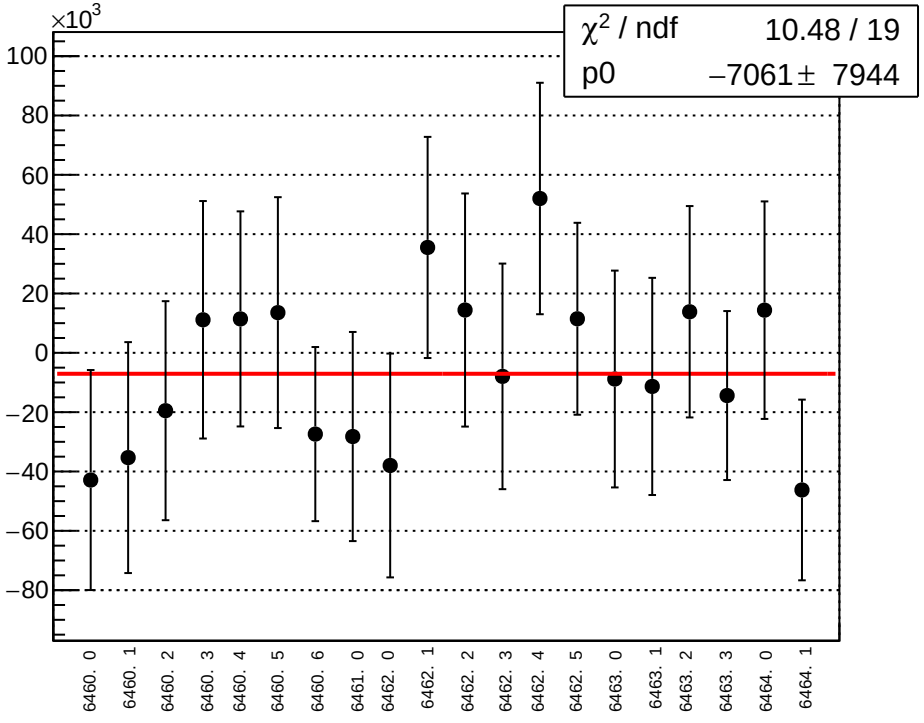

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 386 / 19
p0 3574 ± 5.617
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

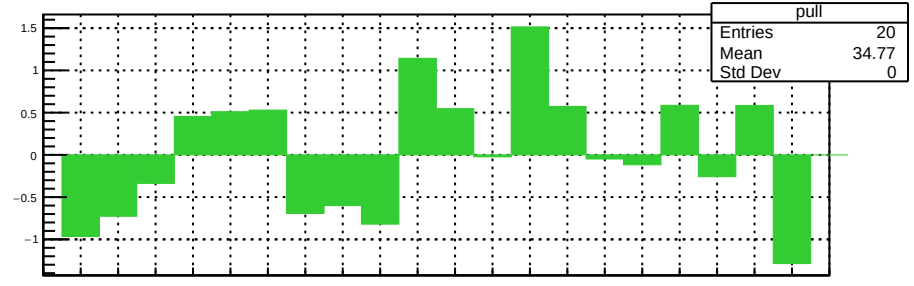

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 22.37 / 19
p0 −5599 ± 2897
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

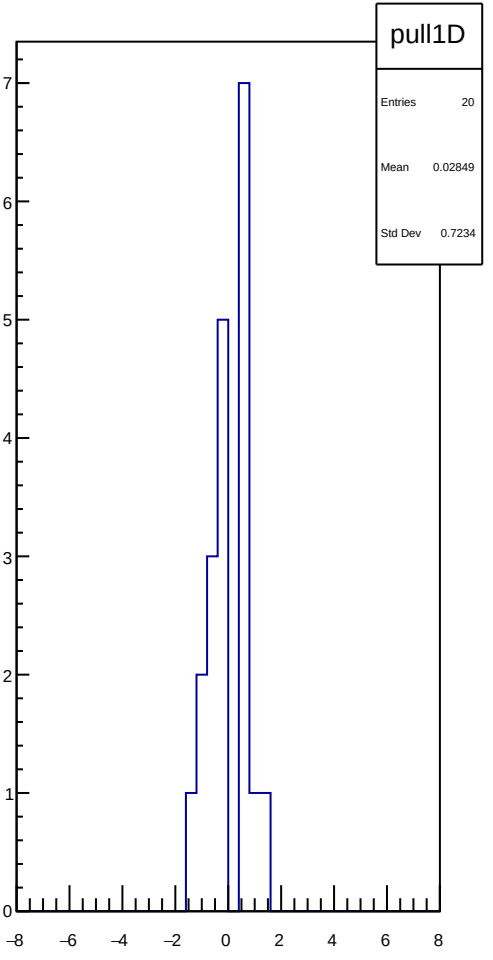

pull1D
Entries 20
Mean −0.01157
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

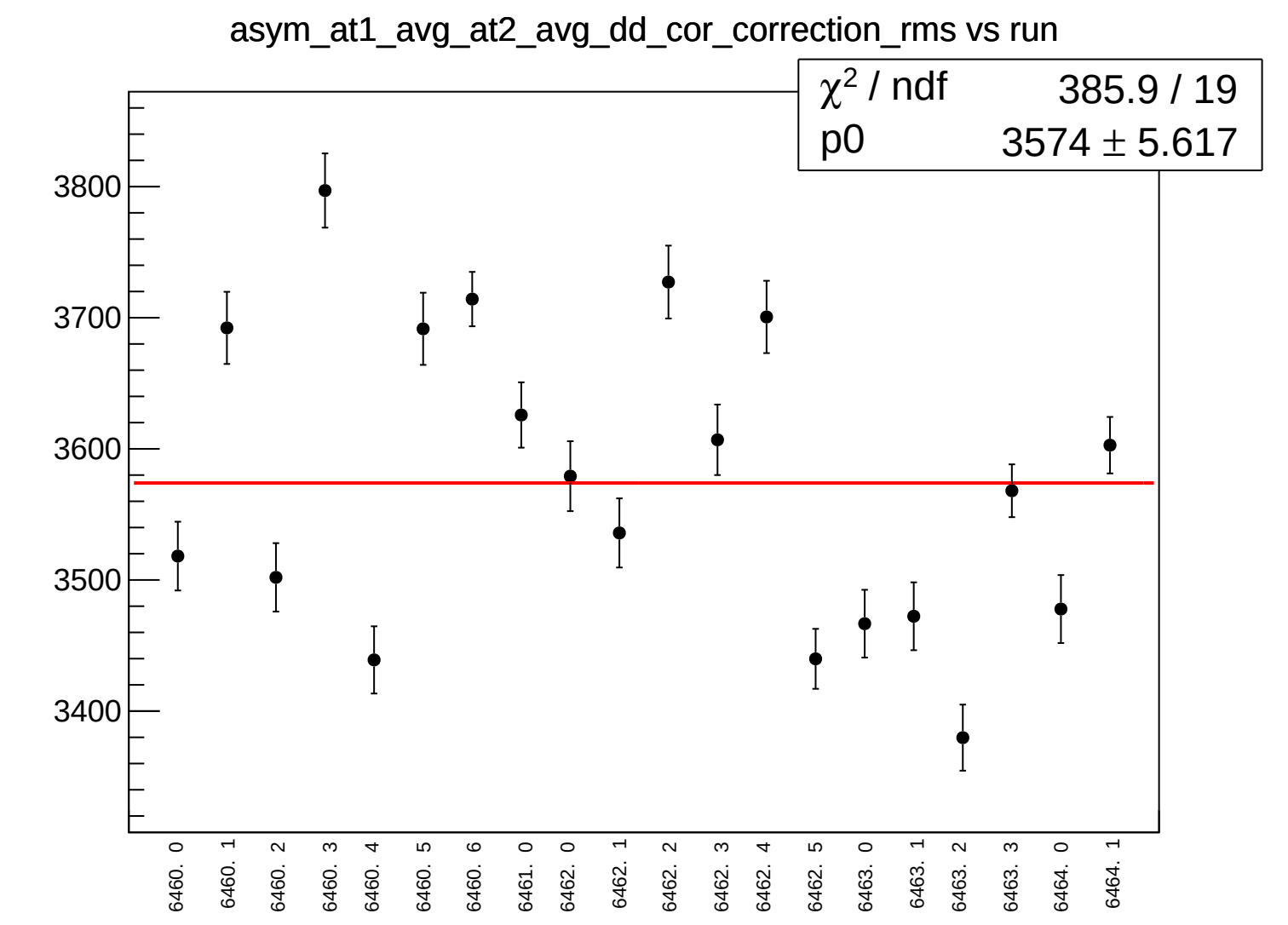

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 32.89 / 19
p0 1304 ± 2.048
1340
1330
1320
1310
1300
1290
1280
1270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

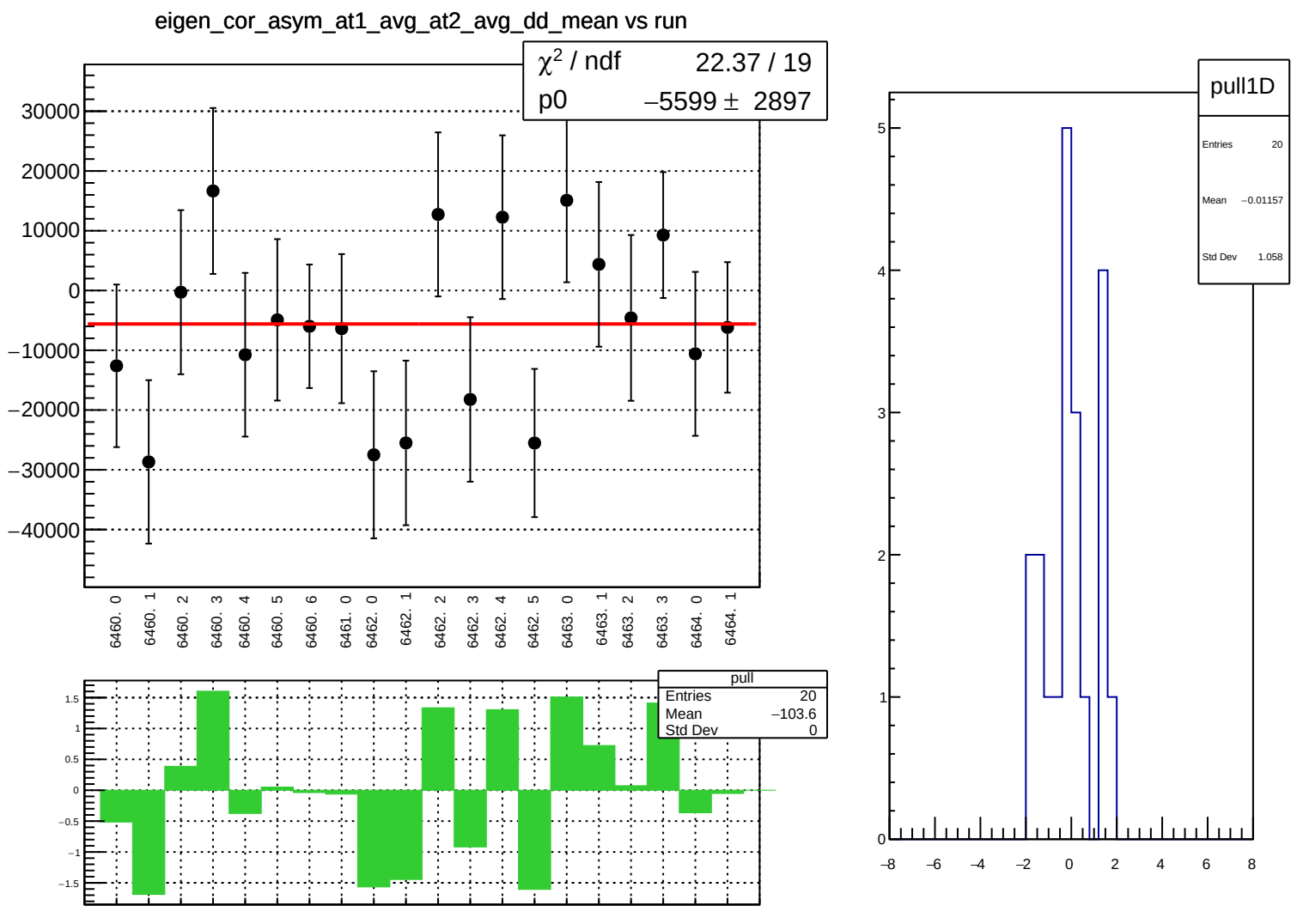
asym_at1_avg_at2_avg_dd_cor_correction_mean vs run

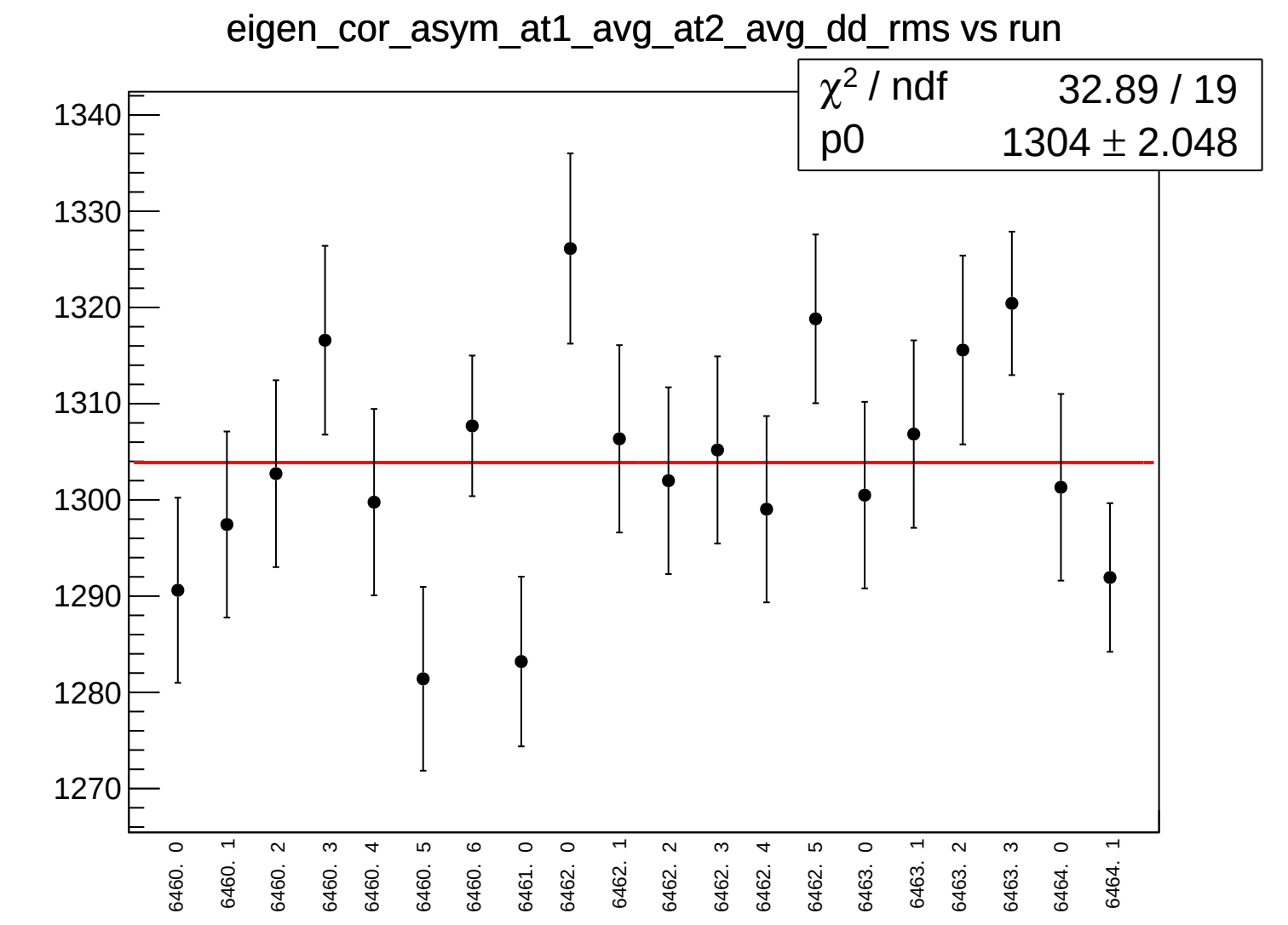


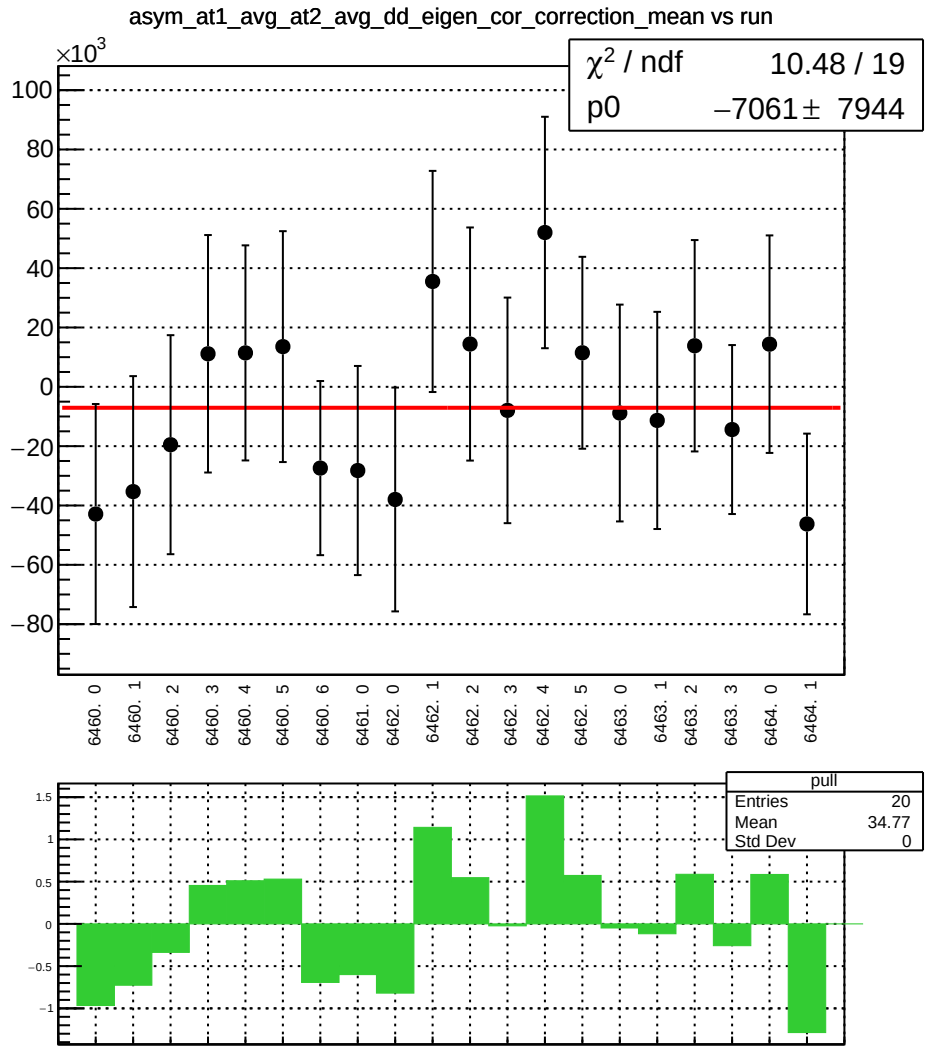


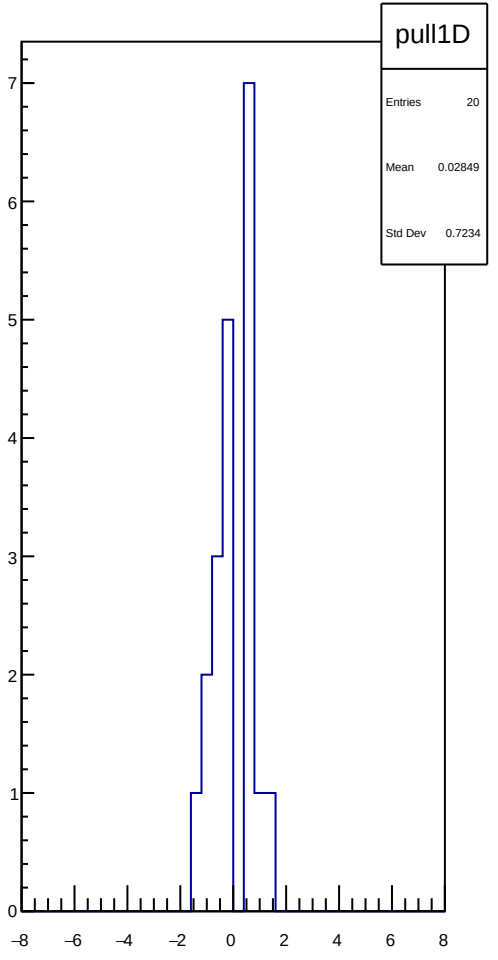


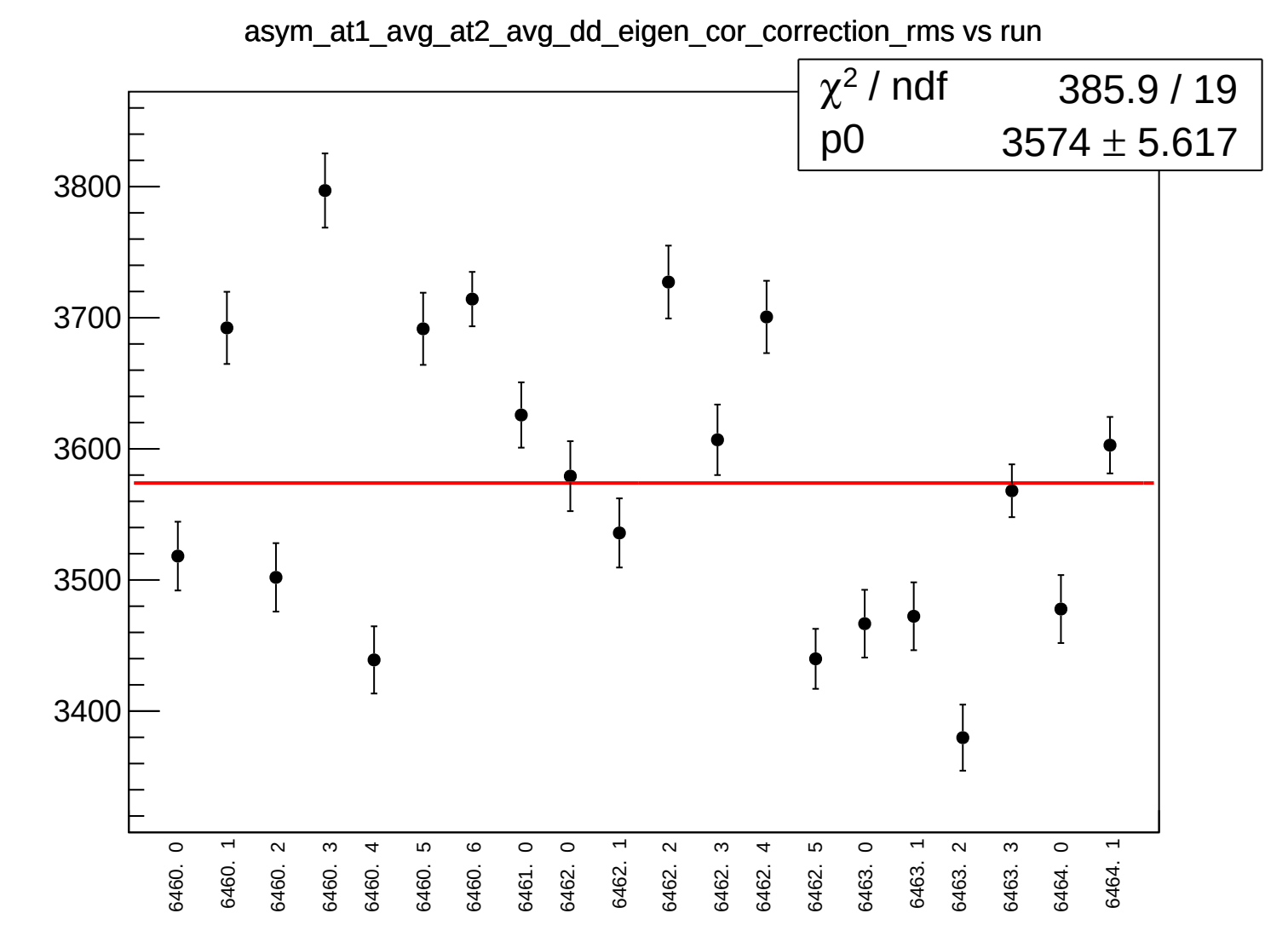

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 385.9 / 19
p0 3574 ± 5.617
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

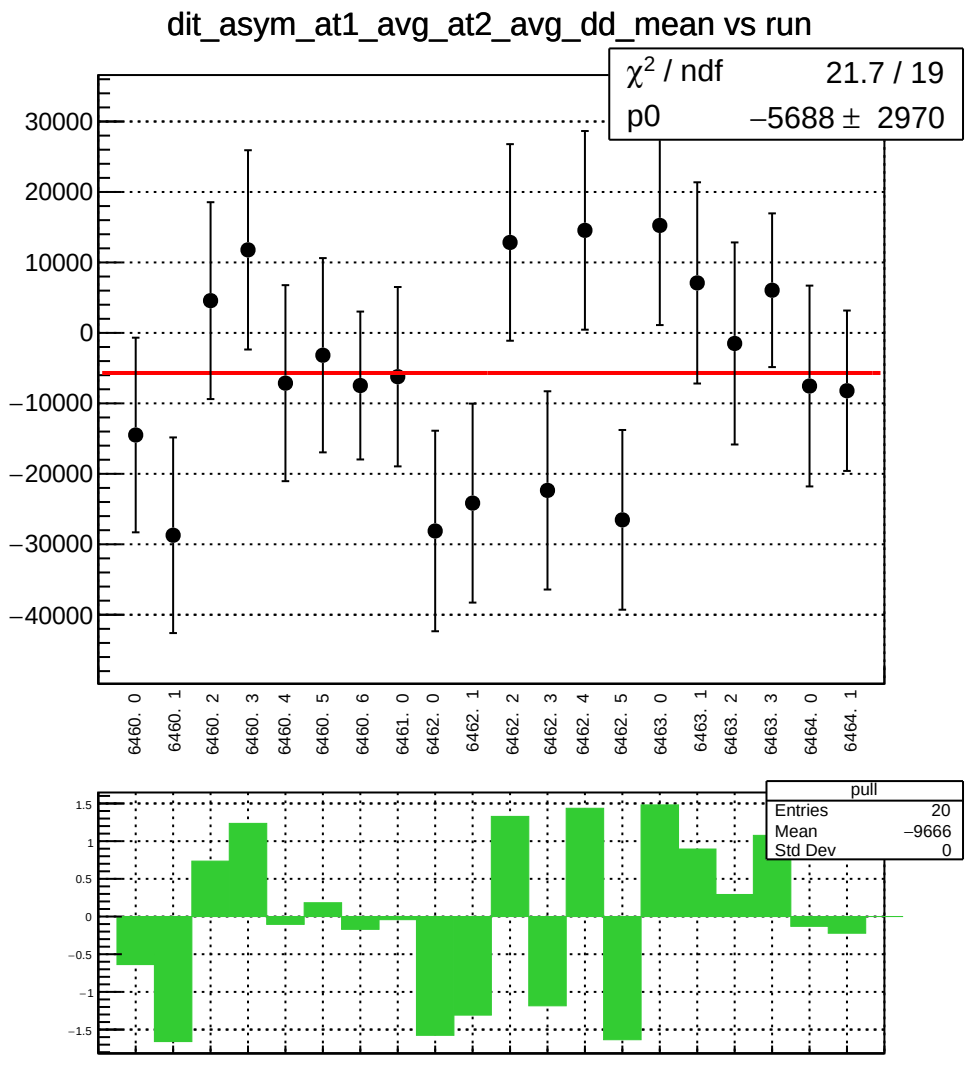

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 22.37 / 19
p0 −5599 ± 2897
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01157
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

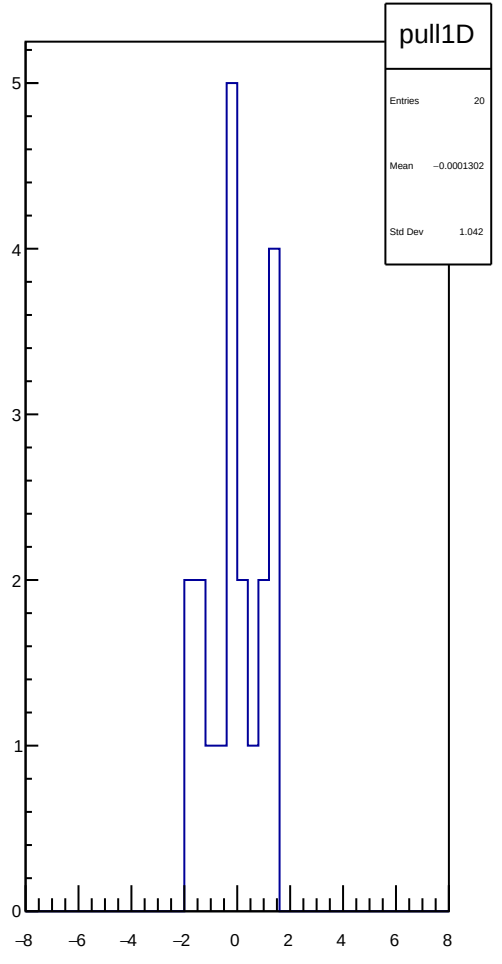

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 32.89 / 19
p0 1304 ± 2.048
1340
1330
1320
1310
1300
1290
1280
1270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

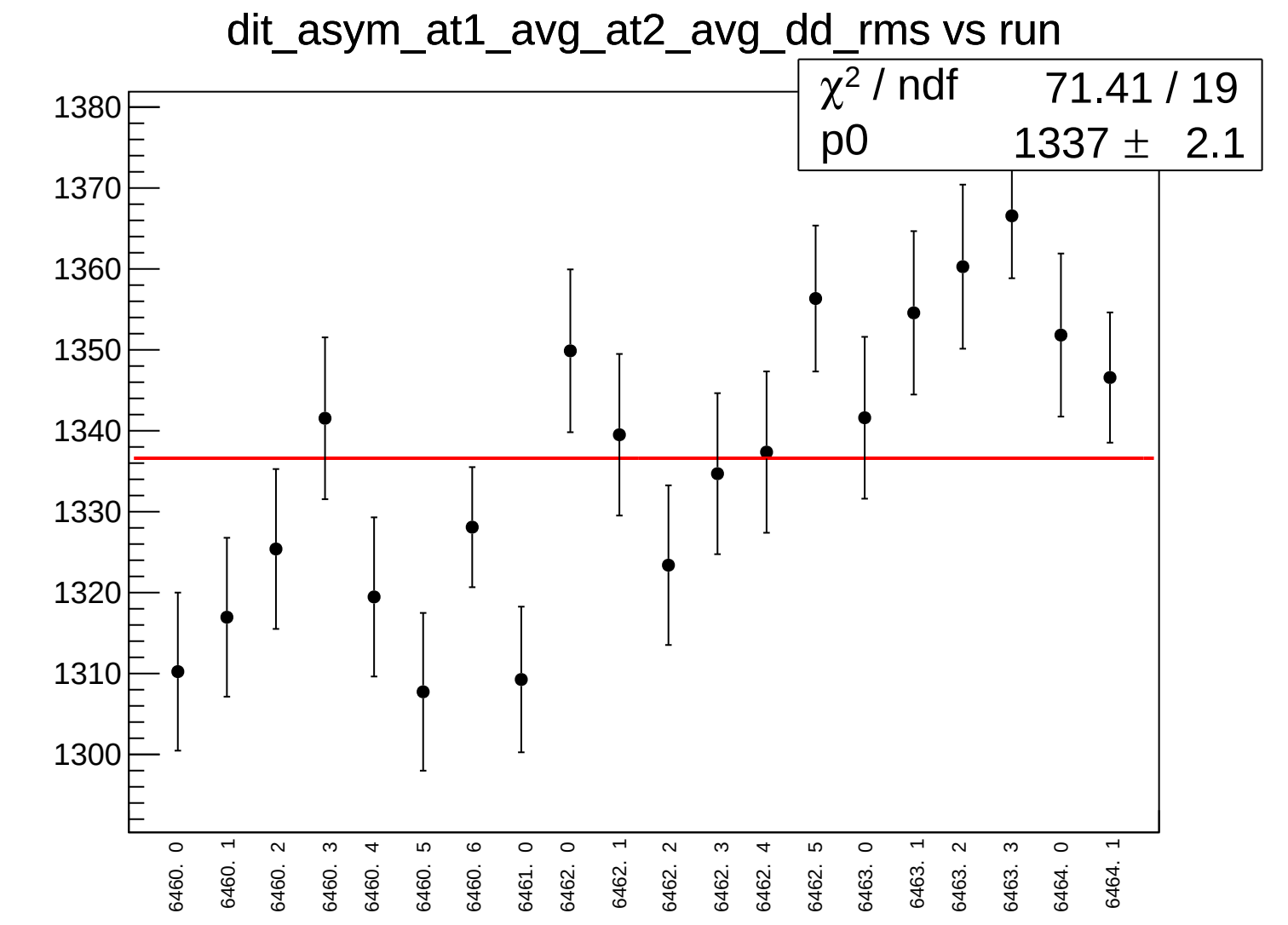

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 10.48 / 19
p0 −7061 ± 7944
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1

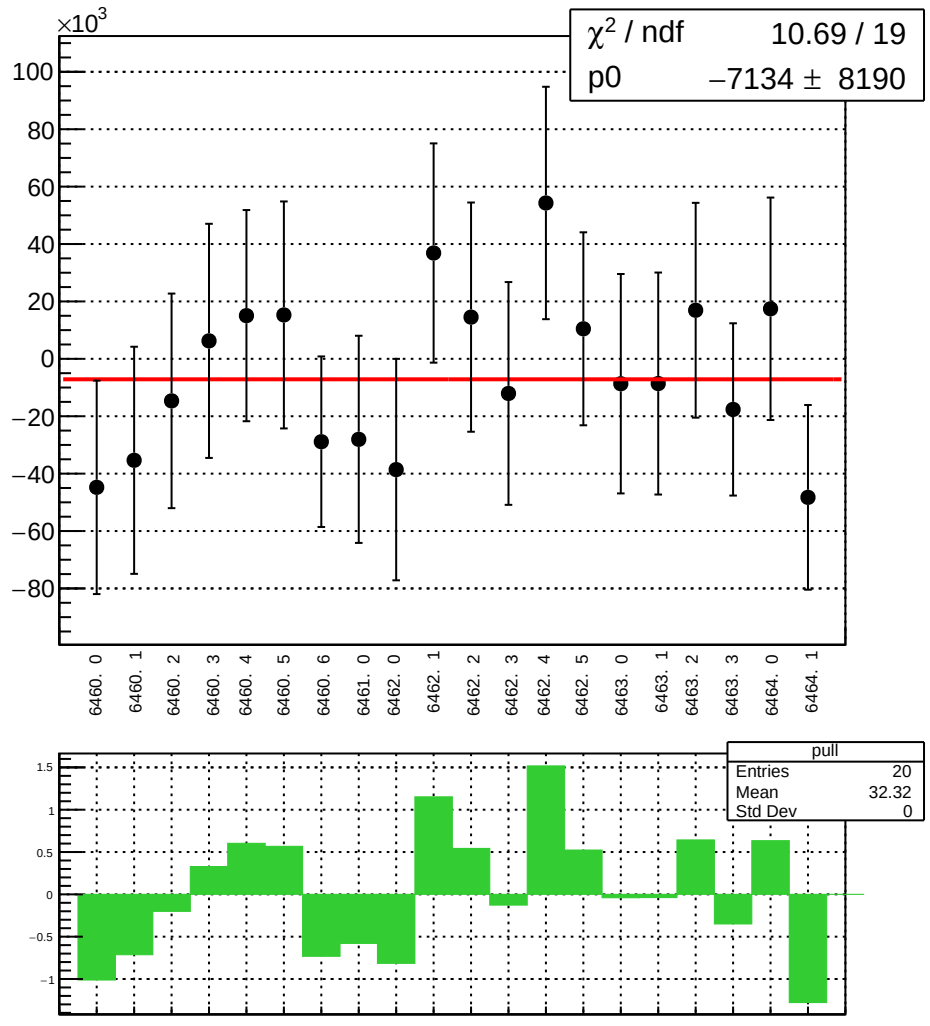

pull1D
Entries 20
Mean 0.02849
Std Dev 0.7234
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

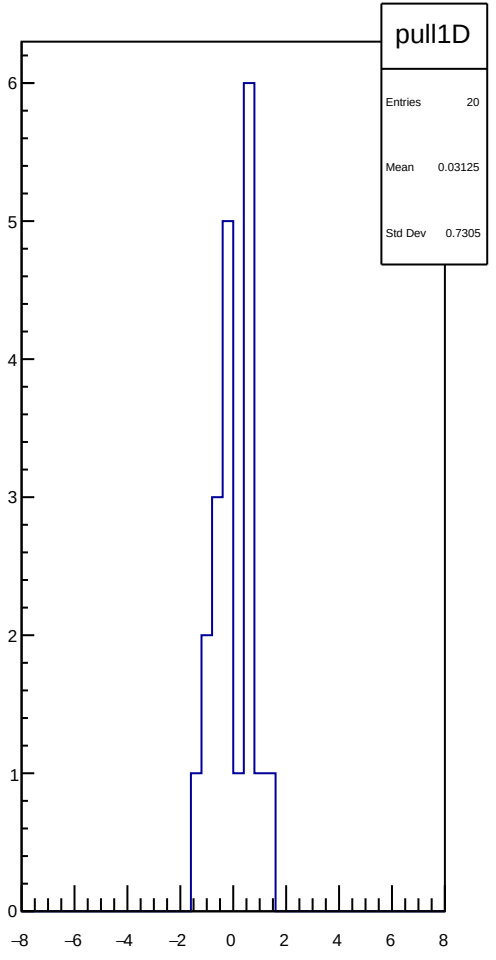

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 385.9 / 19
p0 3574 ± 5.617
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

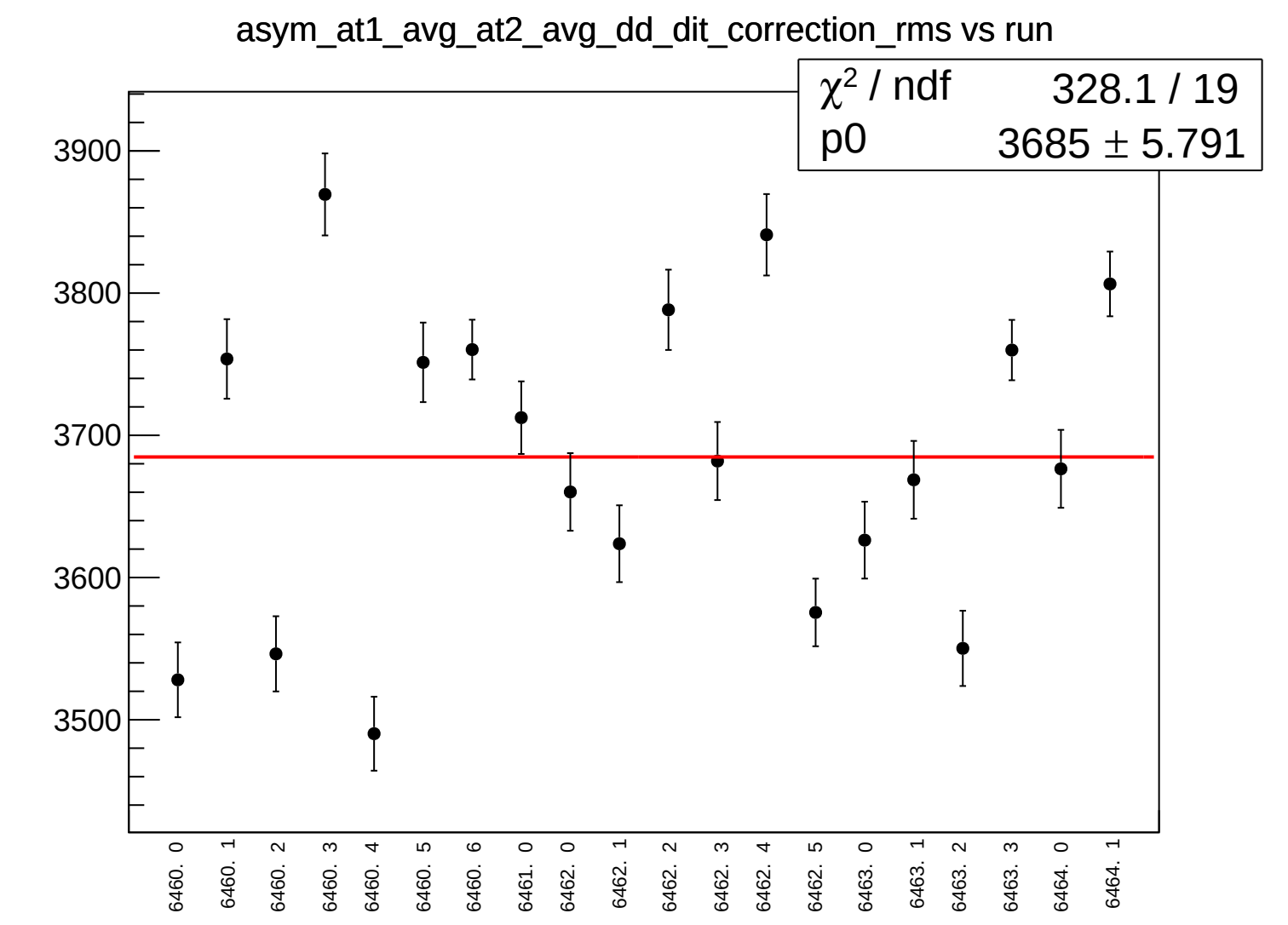

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 21.7 / 19
p0 −5688 ± 2970
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −9666
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

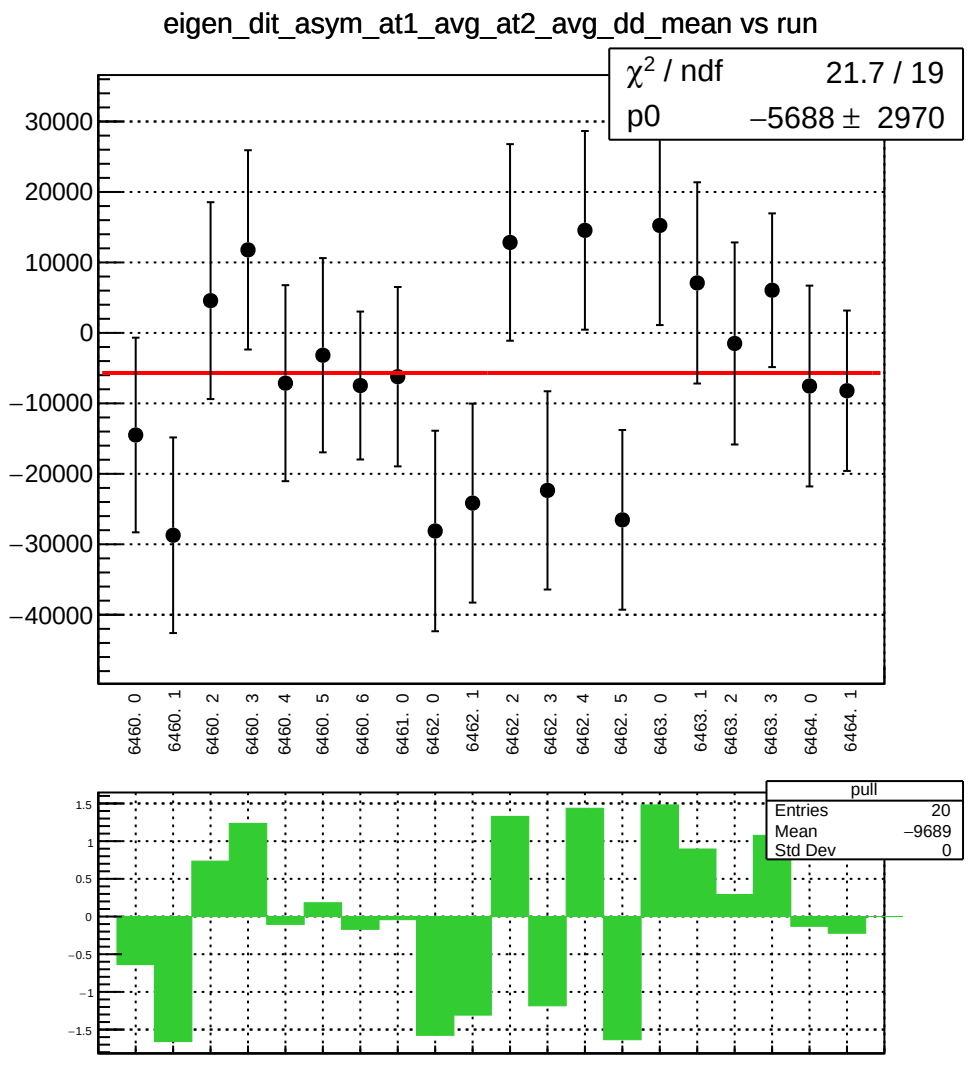

pull1D
Entries 20
Mean −0.0001302
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

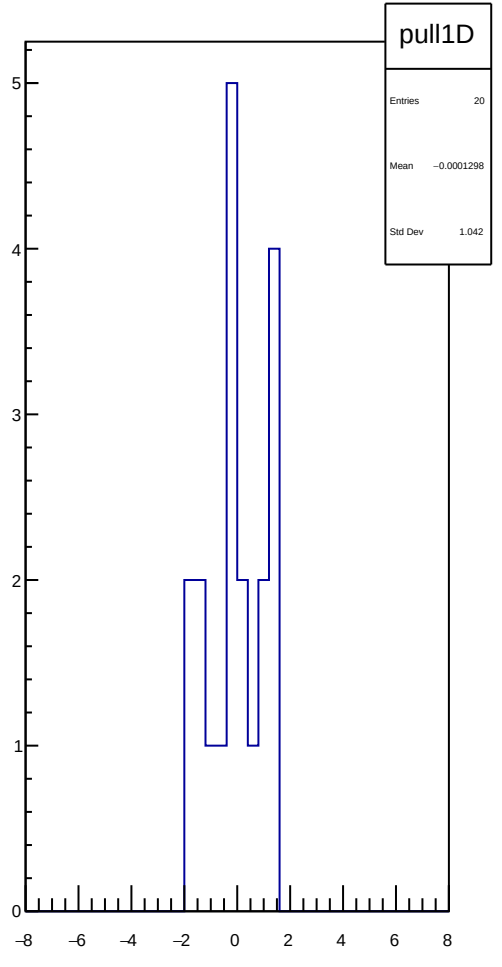

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 71.41 / 19
p0 1337 ± 2.1
1380
1370
1360
1350
1340
1330
1320
1310
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

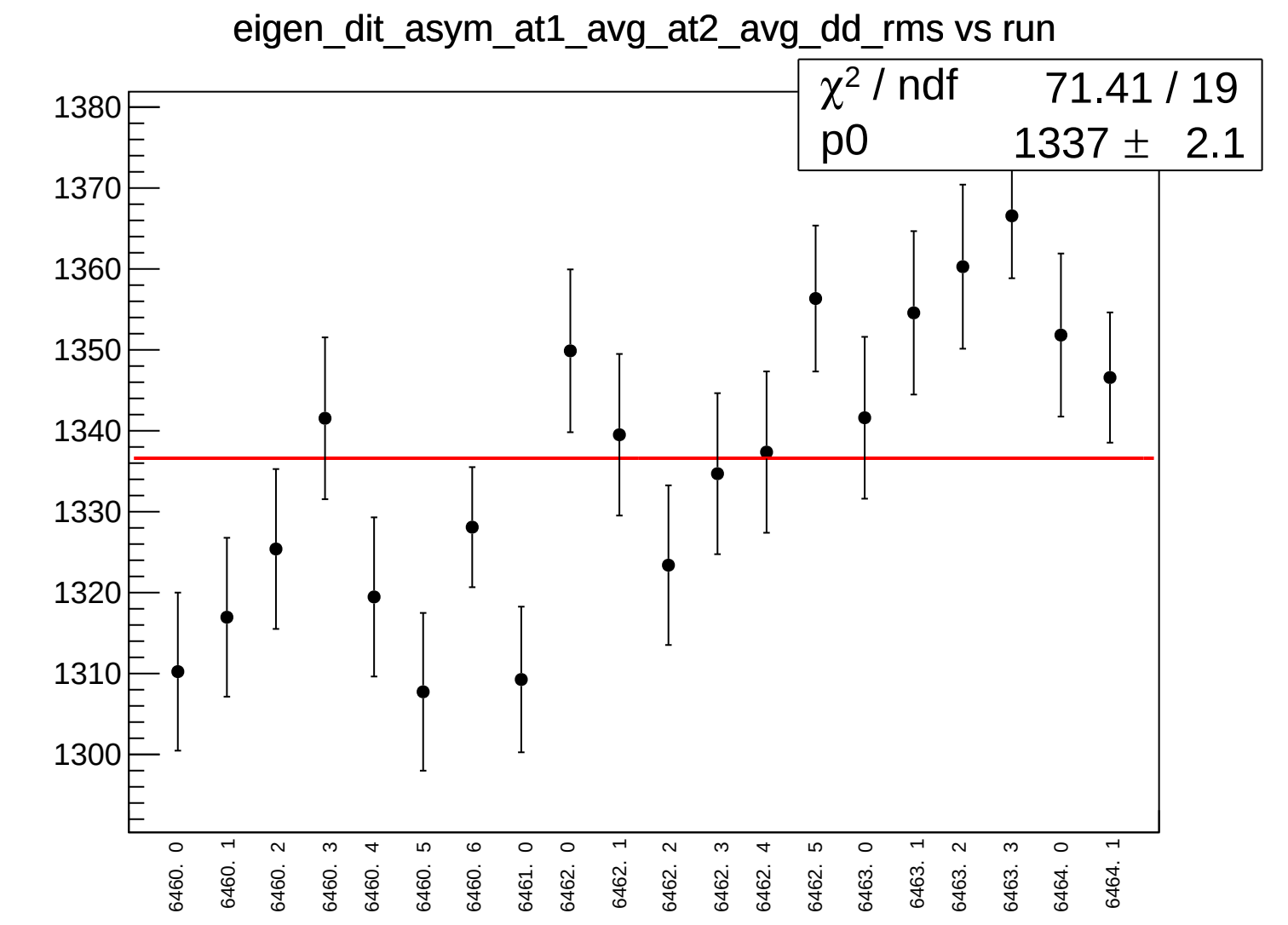

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 10.69 / 19
p0 −7134 ± 8190
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1

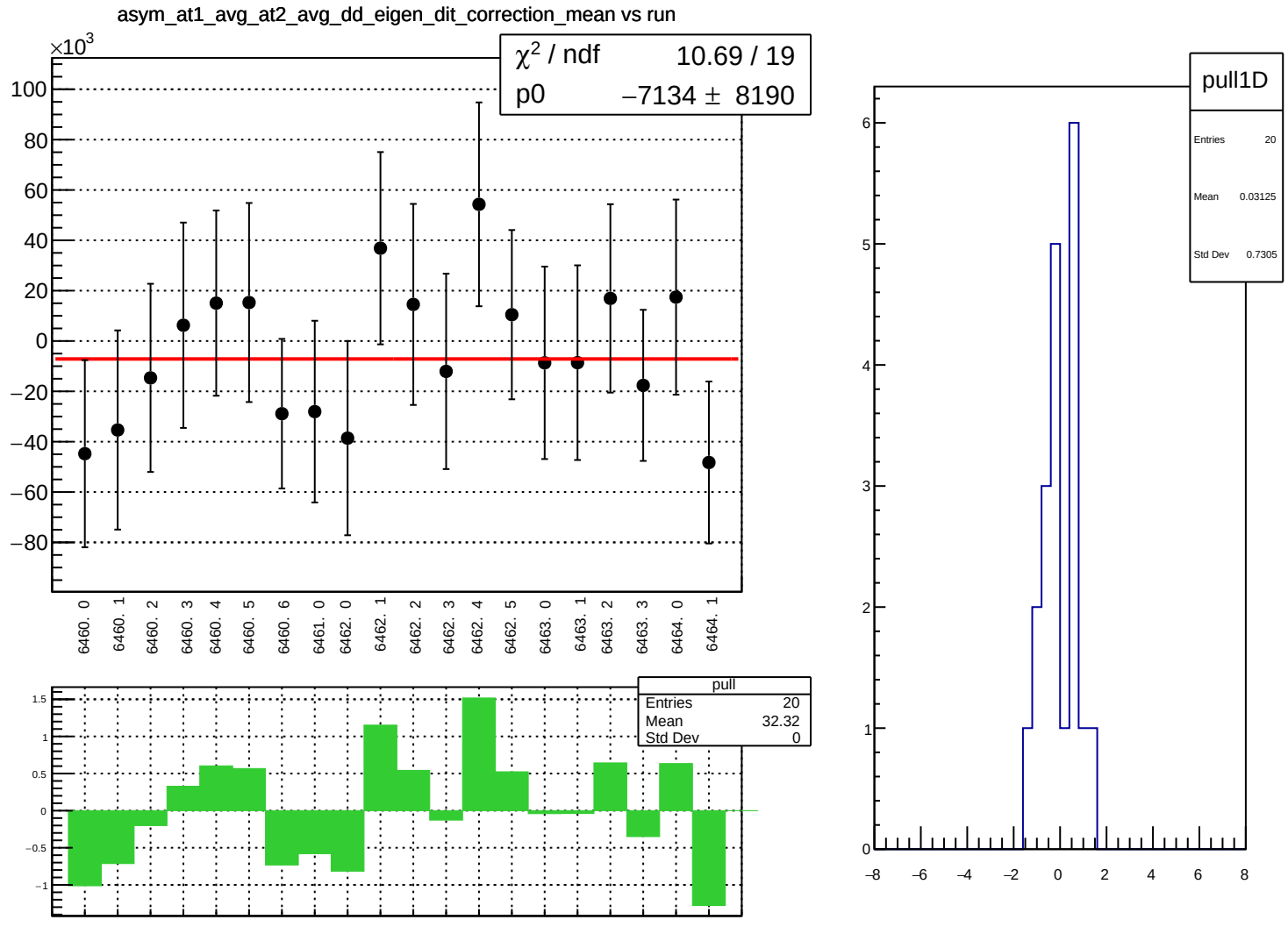

pull1D
Entries 20
Mean 0.03125
Std Dev 0.7305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

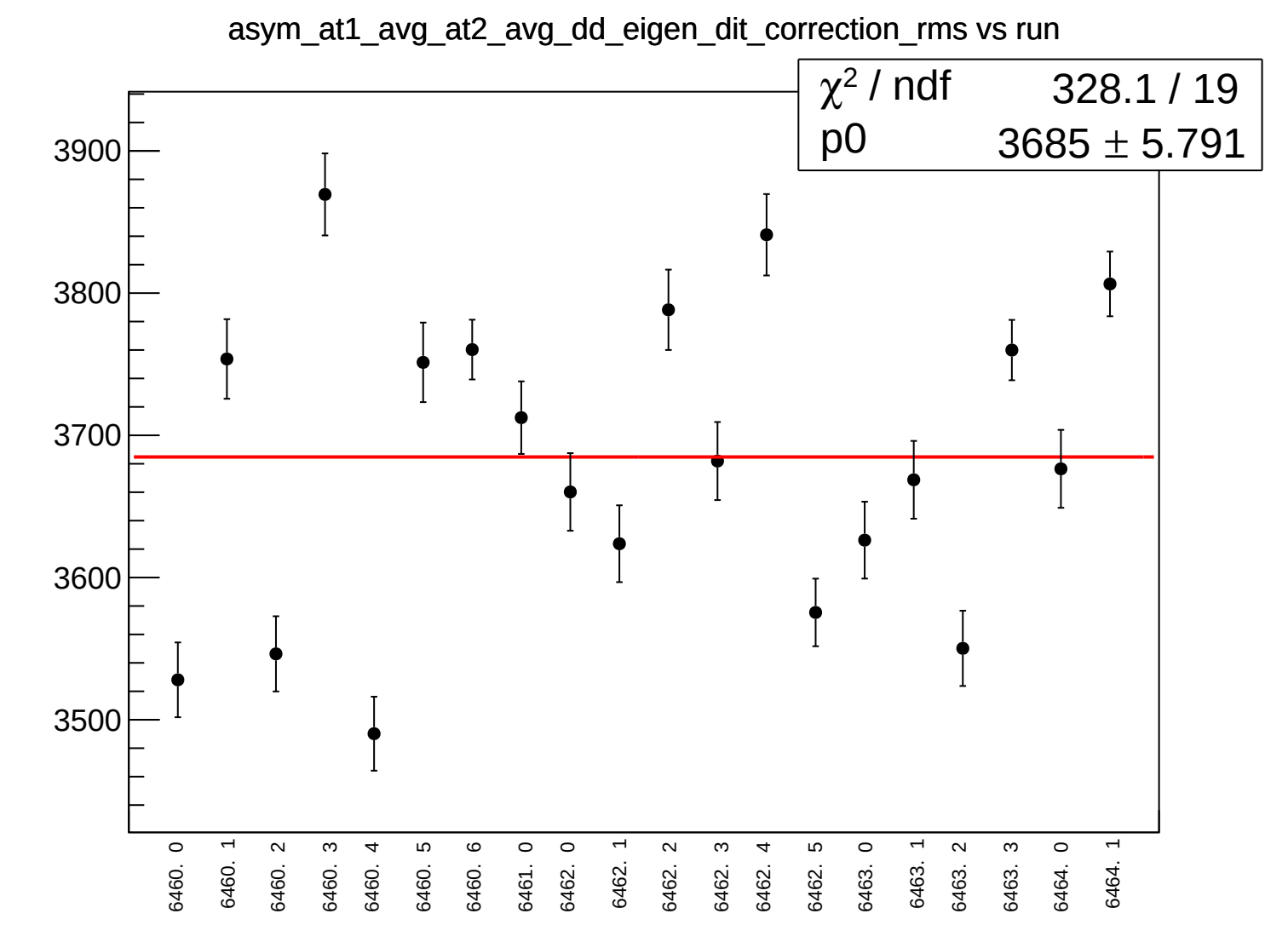

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 328.1 / 19
p0 3685 ± 5.791
3900
3800
3700
3600
3500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

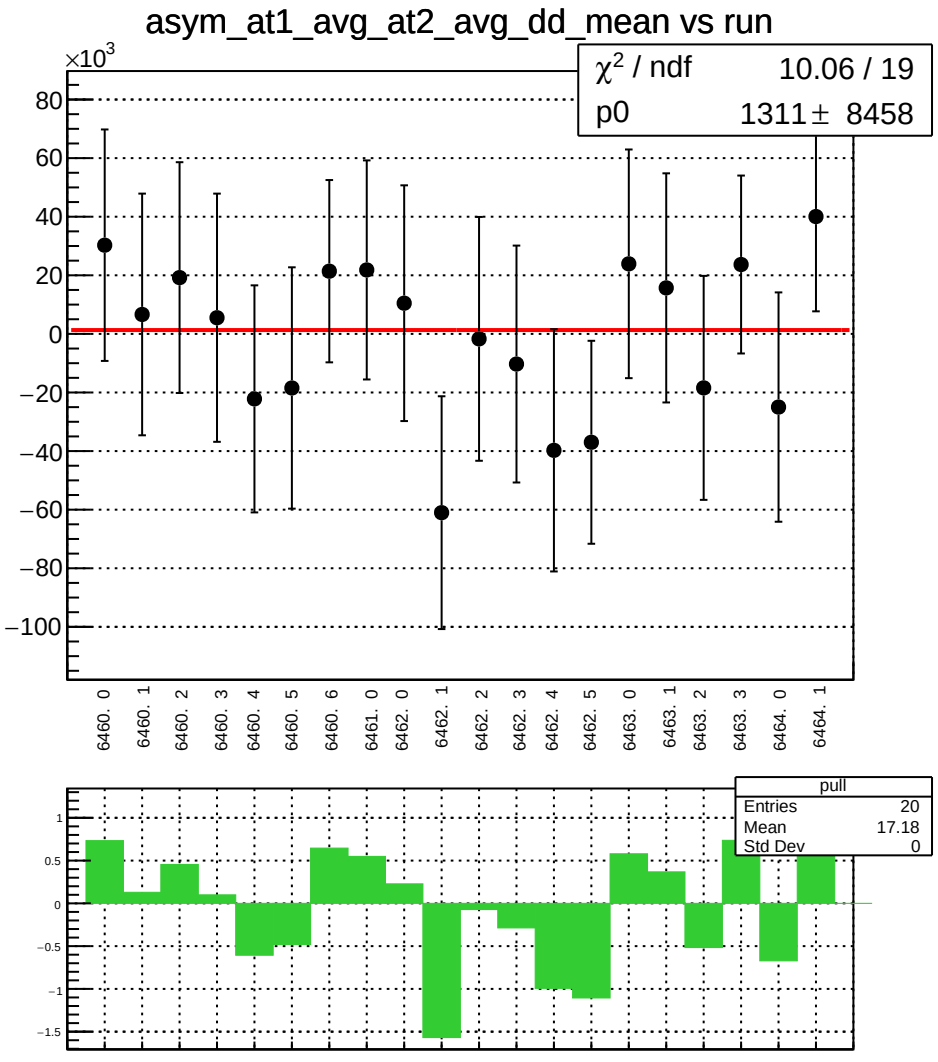

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 21.7 / 19
p0 −5688 ± 2970
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −9689
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

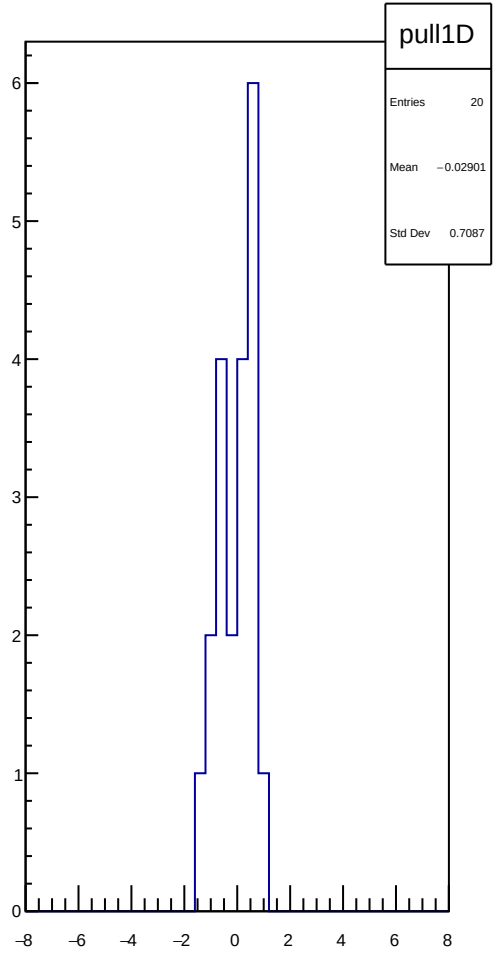

pull1D
Entries 20
Mean −0.0001298
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

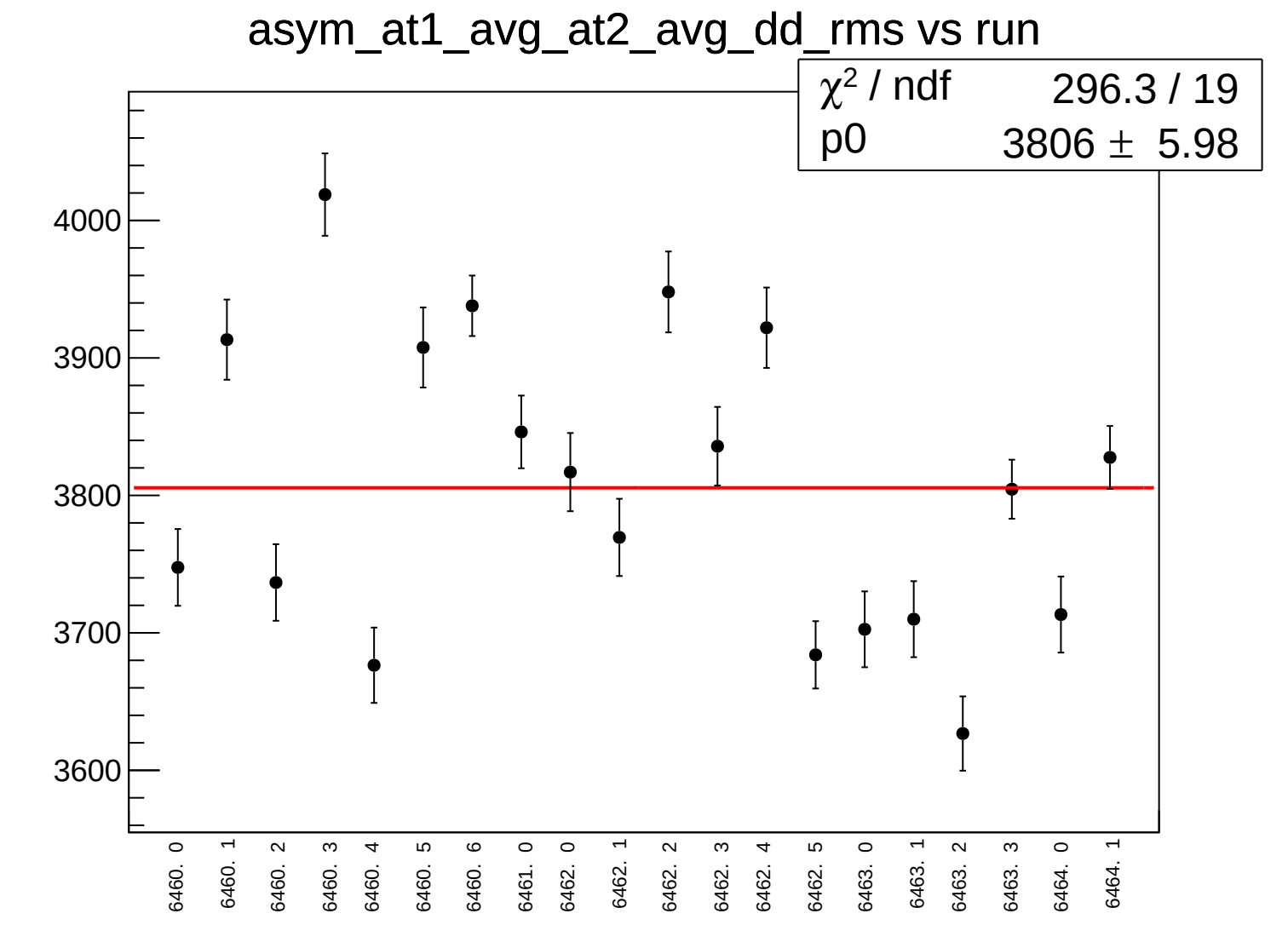

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 71.41 / 19
p0 1337 ± 2.1
1380
1370
1360
1350
1340
1330
1320
1310
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

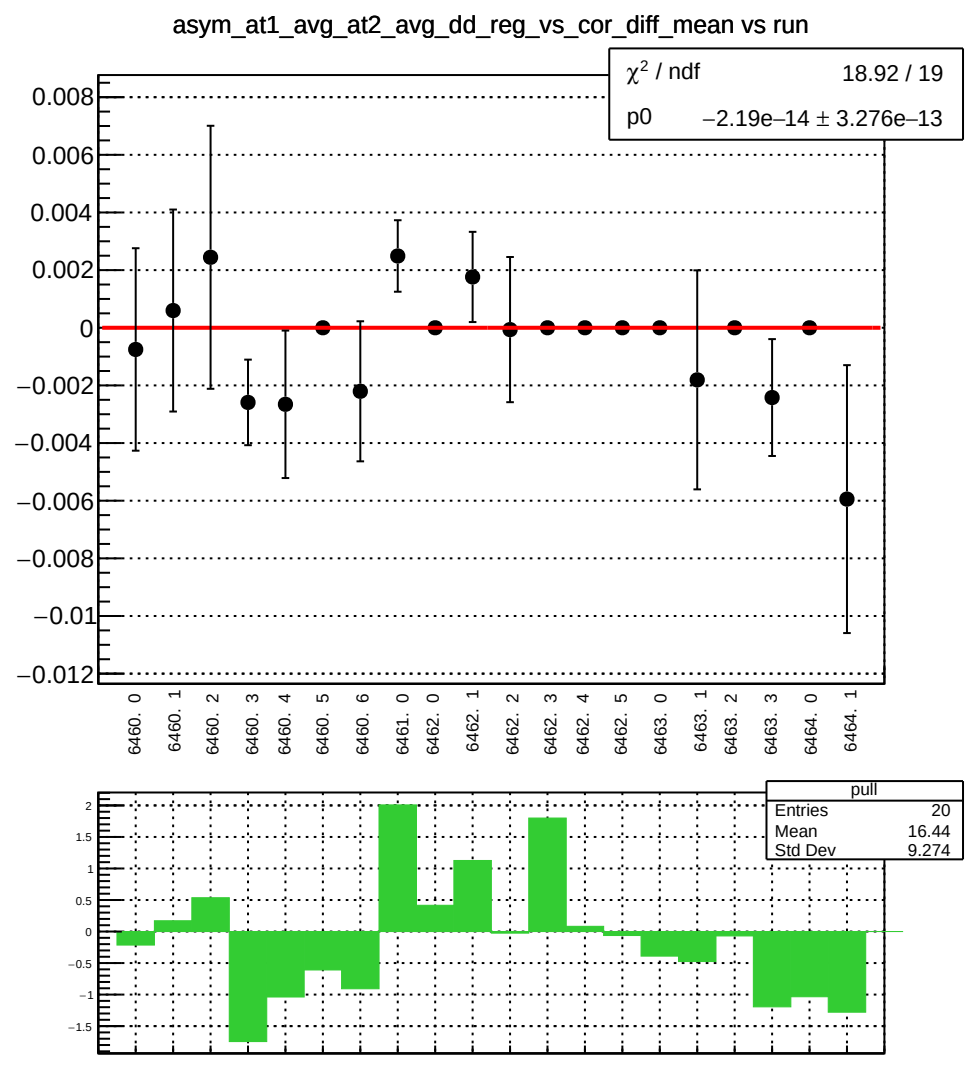

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 10.69 / 19
p0 −7134 ± 8190
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03125
Std Dev 0.7305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

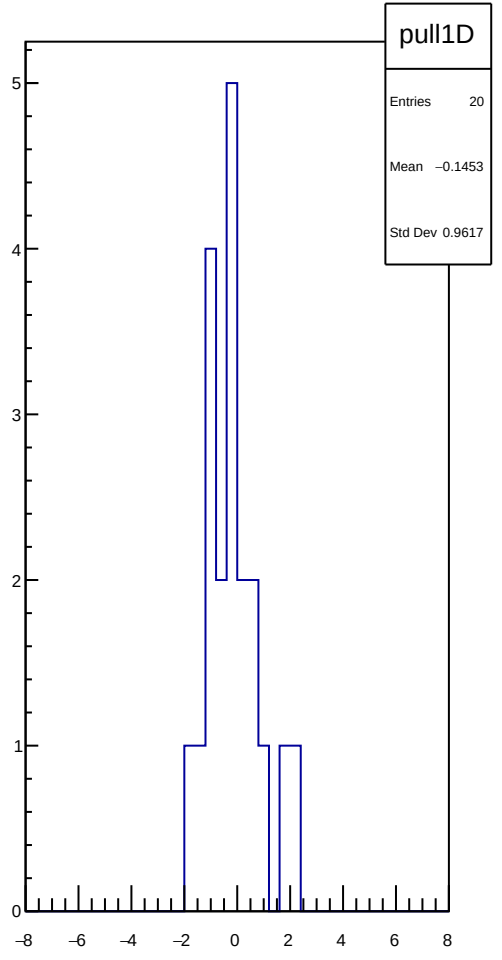

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 328.1 / 19
p0 3685 ± 5.791
3900
3800
3700
3600
3500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

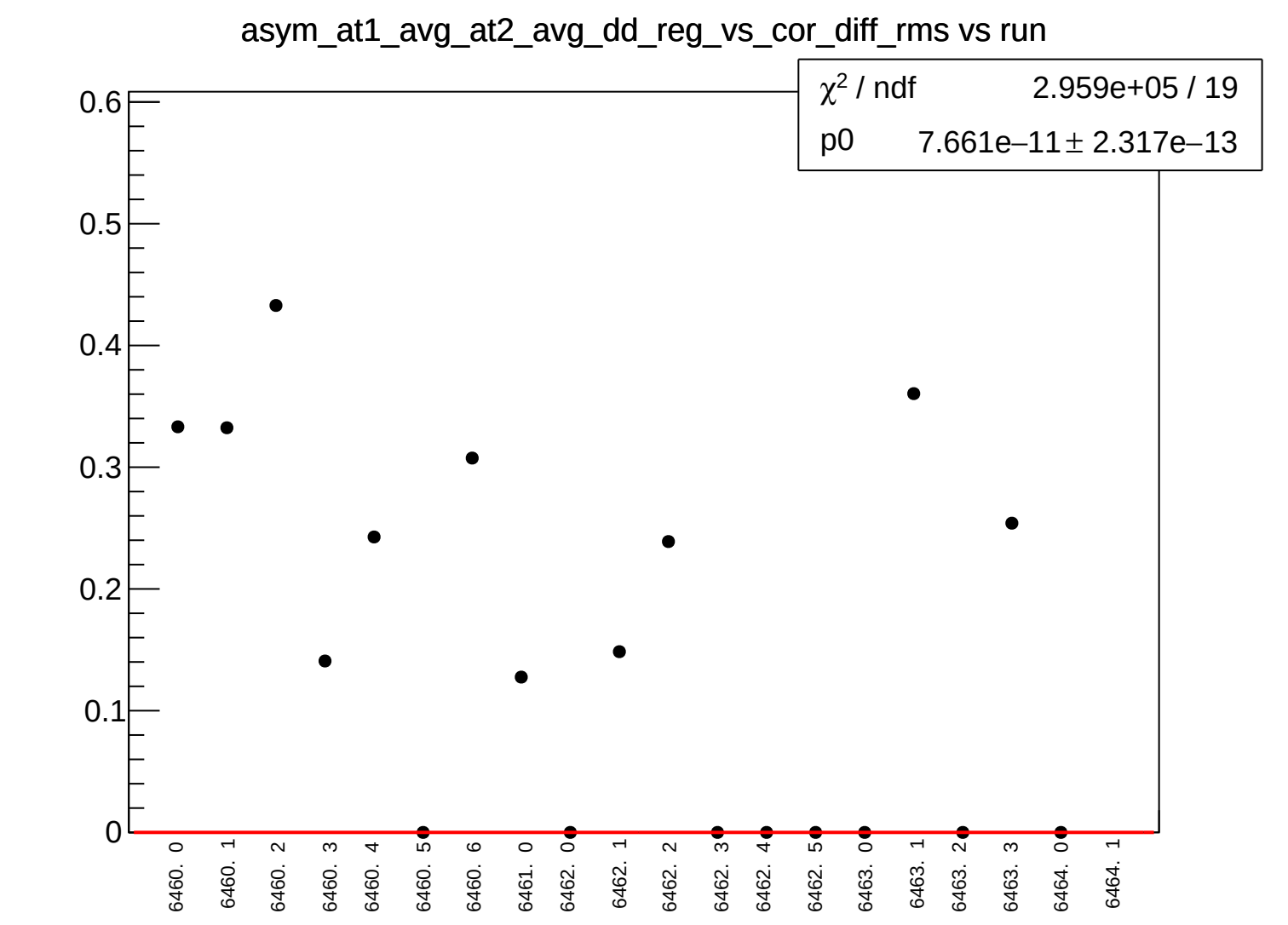

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 10.06 / 19
p0 1311 ± 8458
80
60
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 17.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

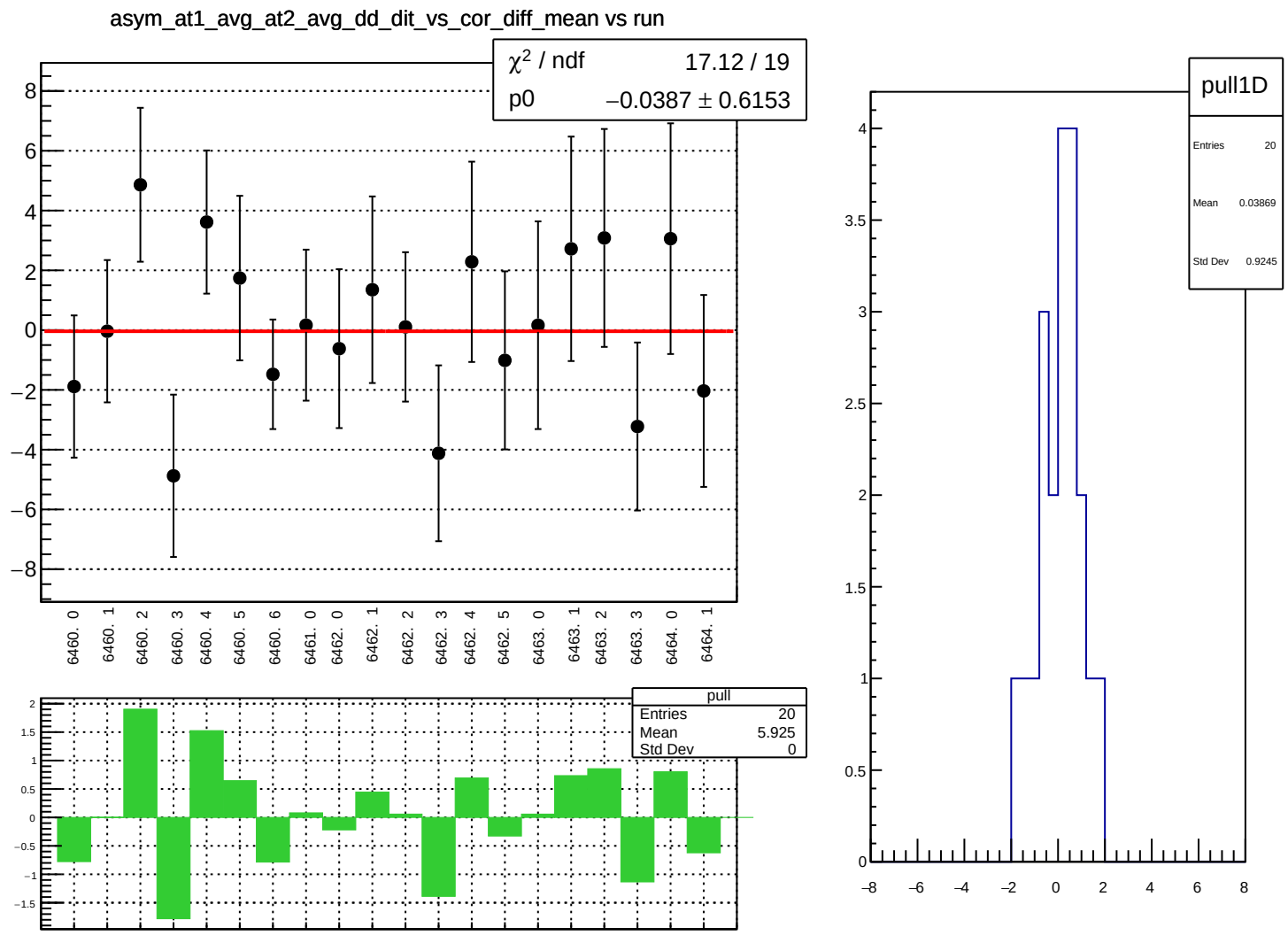

pull1D
Entries 20
Mean −0.02901
Std Dev 0.7087
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

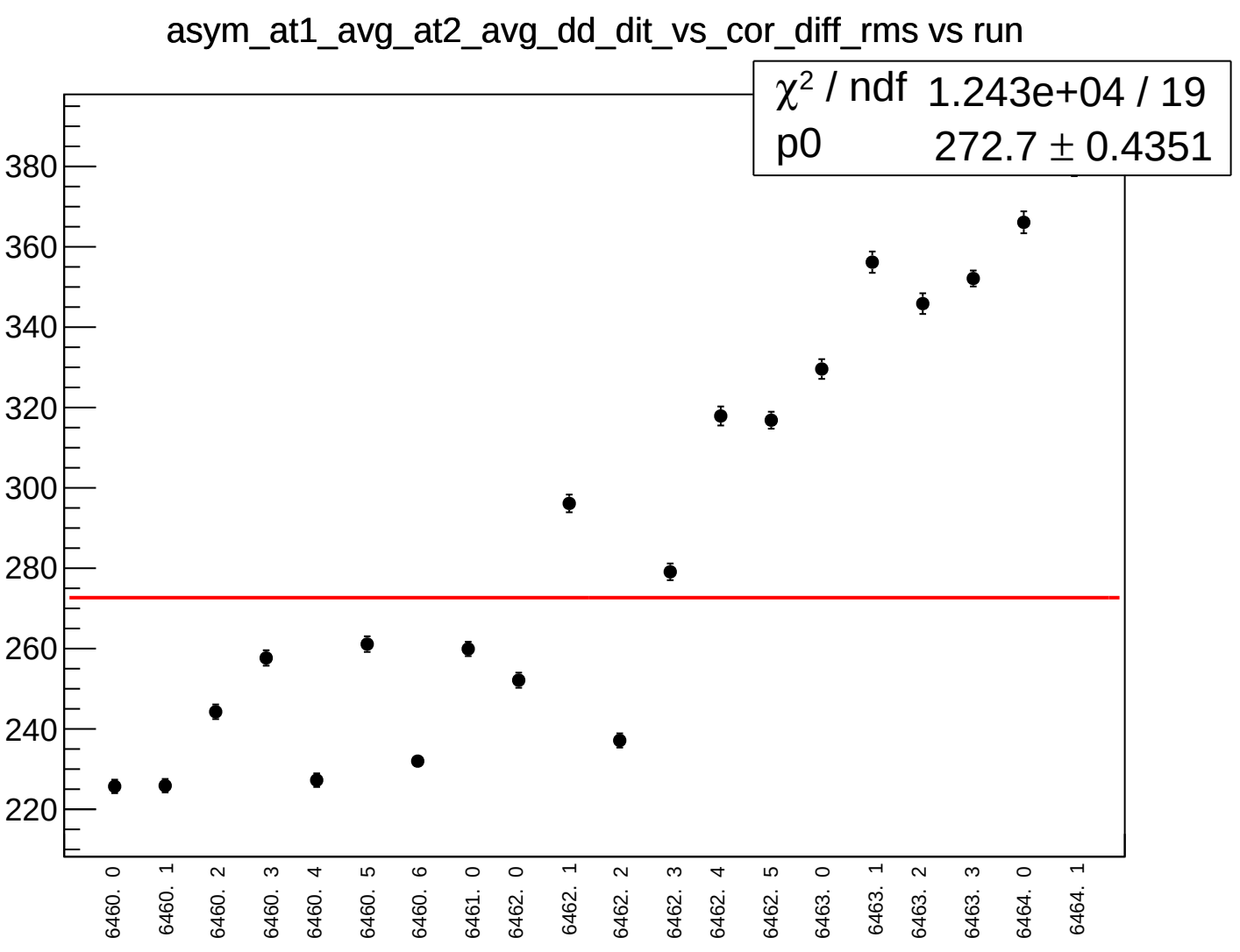

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 296.3 / 19
p0 3806 ± 5.98
4000
3900
3800
3700
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

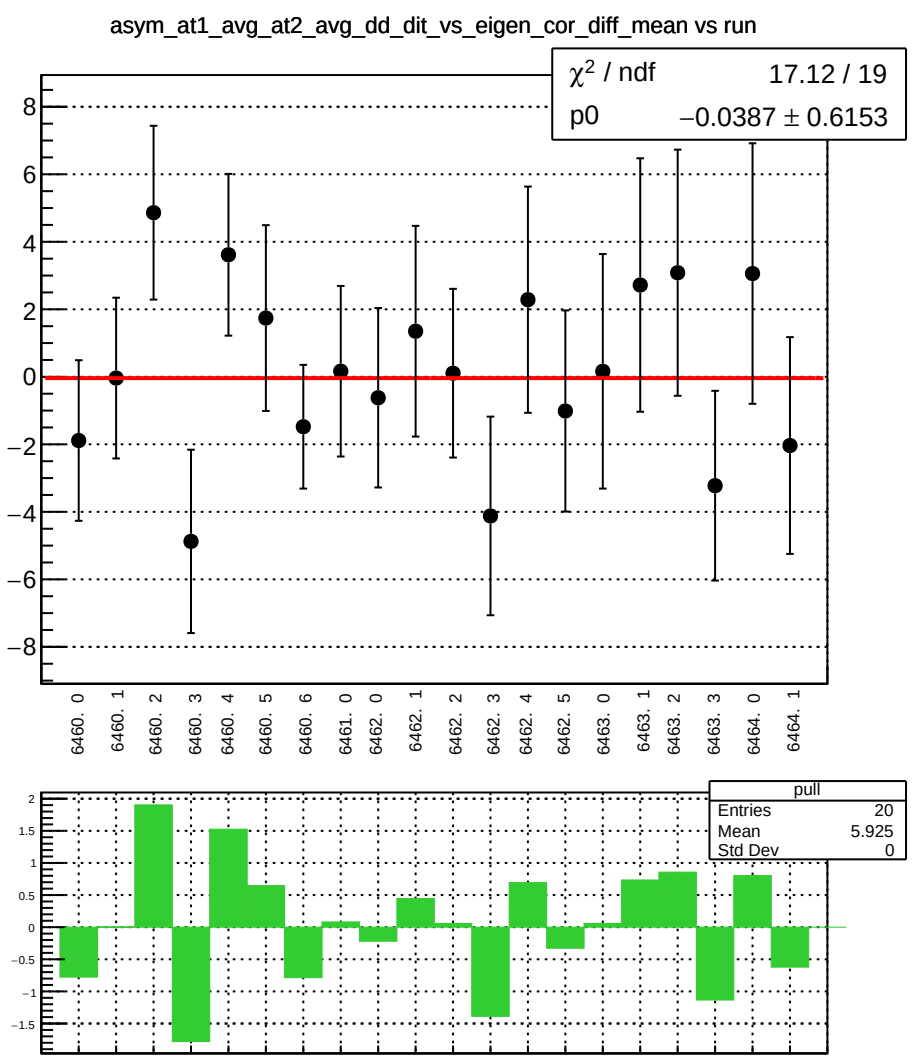

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 18.92 / 19
p0 −2.19e−14 ± 3.276e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.44
Std Dev 9.274
2
1.5
1
0.5
0
−0.5
−1
−1.5

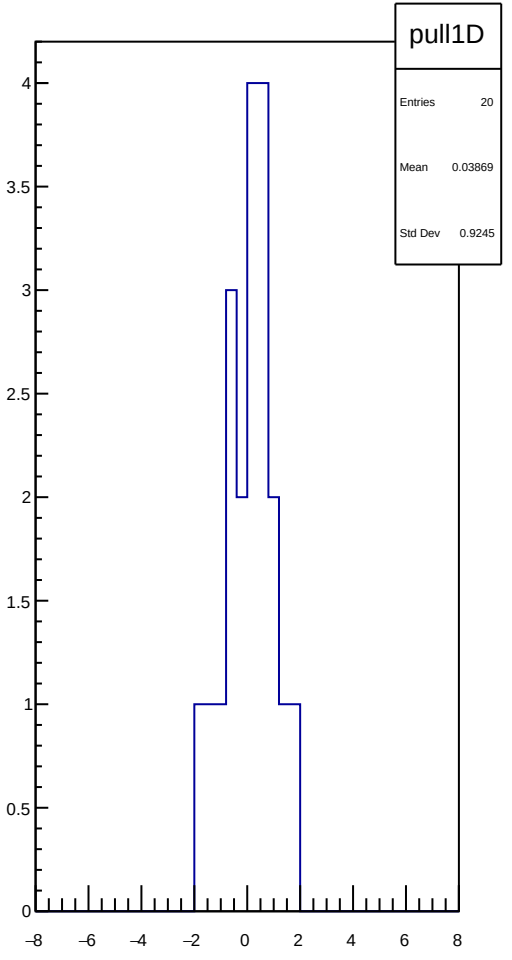

pull1D
Entries 20
Mean −0.1453
Std Dev 0.9617
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

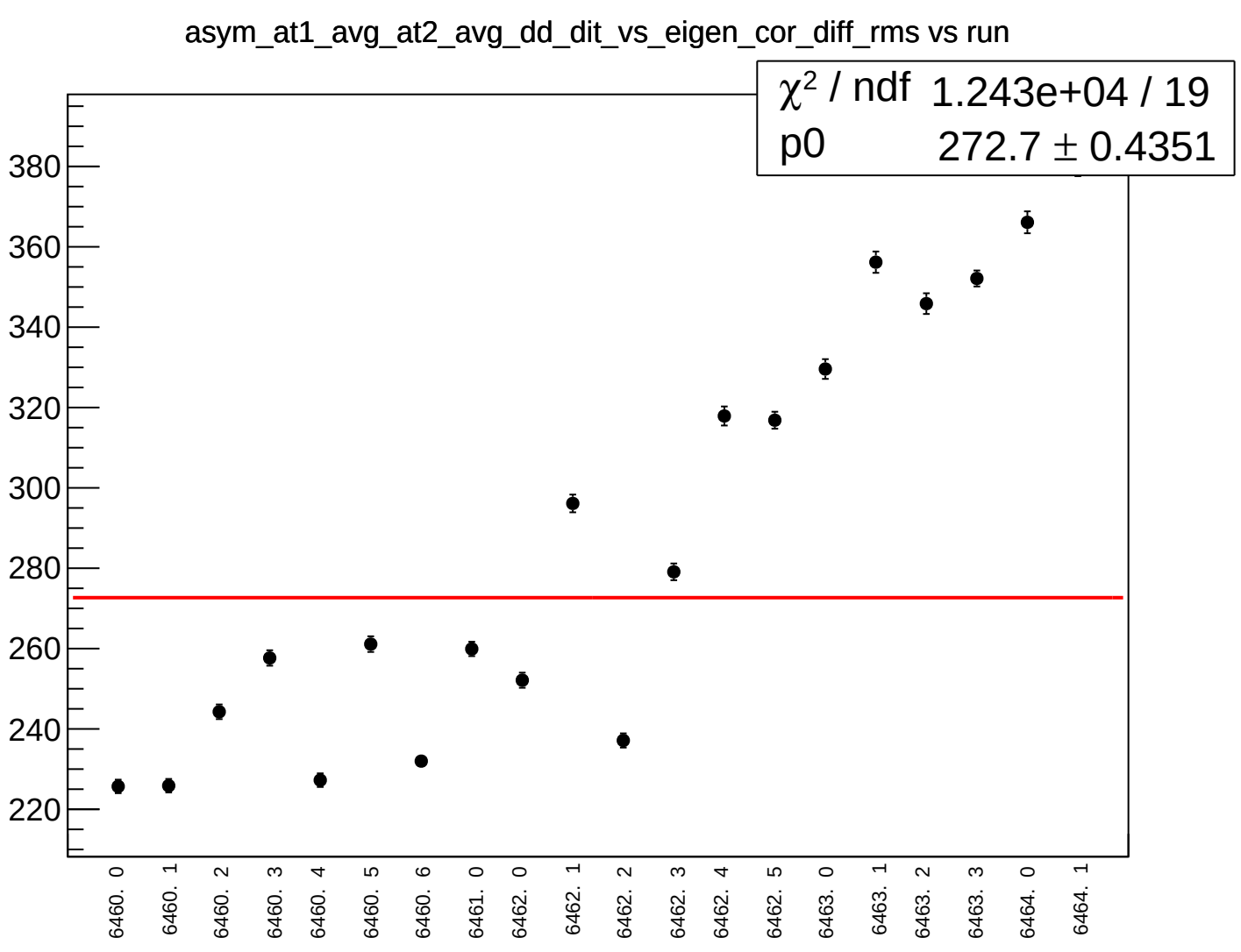

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.959e+05 / 19
p0 7.661e−11 ± 2.317e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

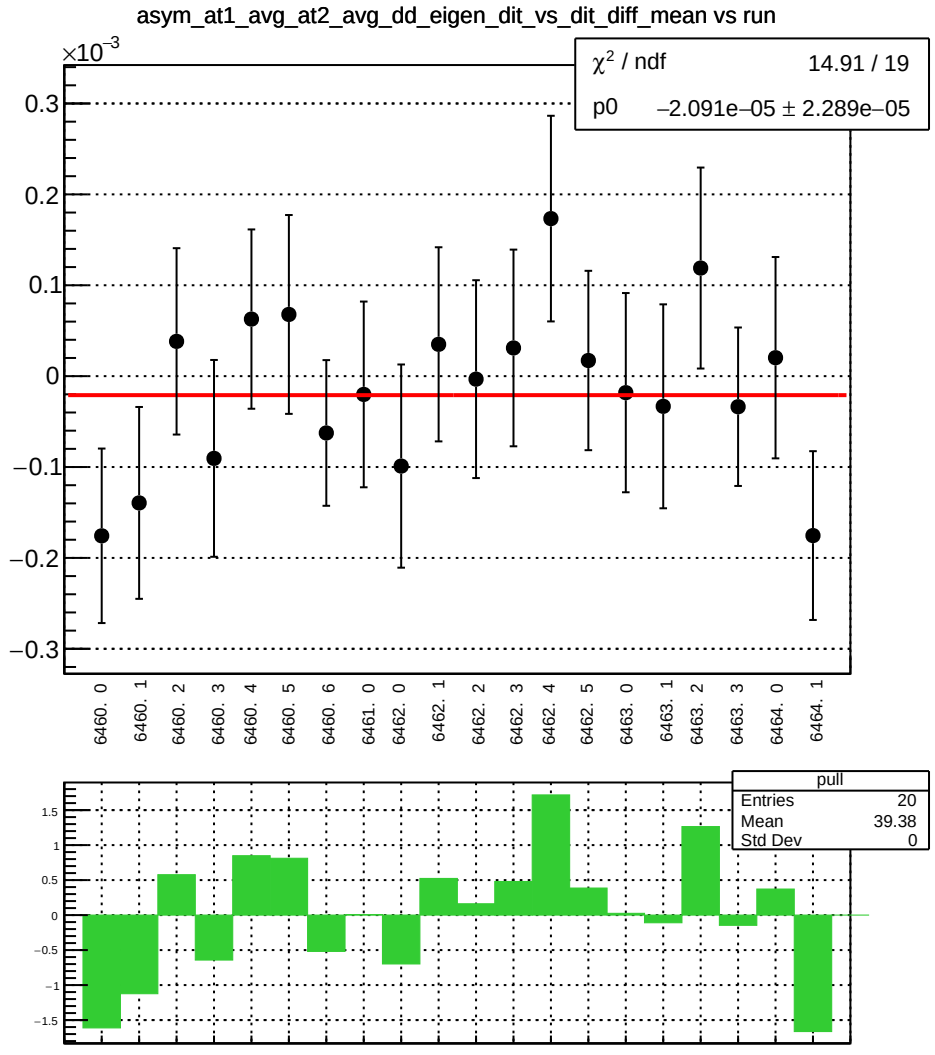

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.0387 ± 0.6153
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.925
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

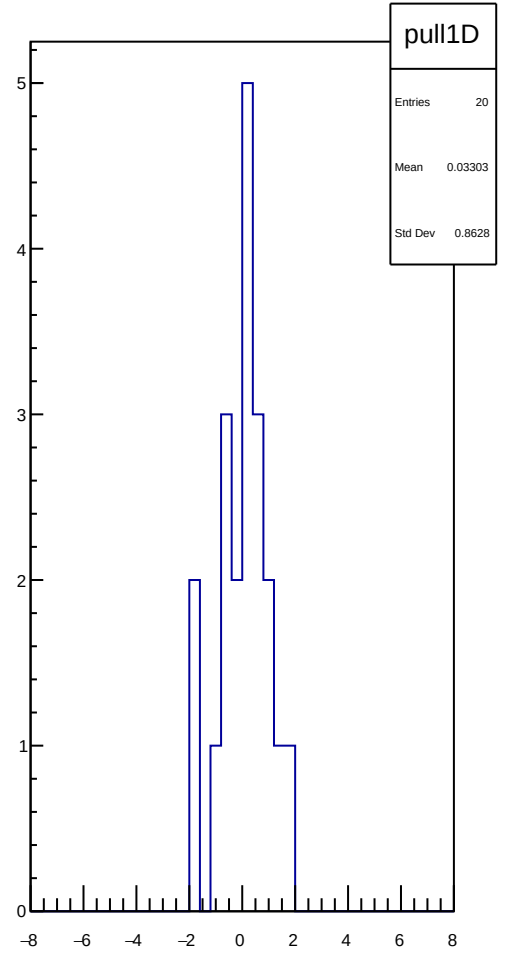

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

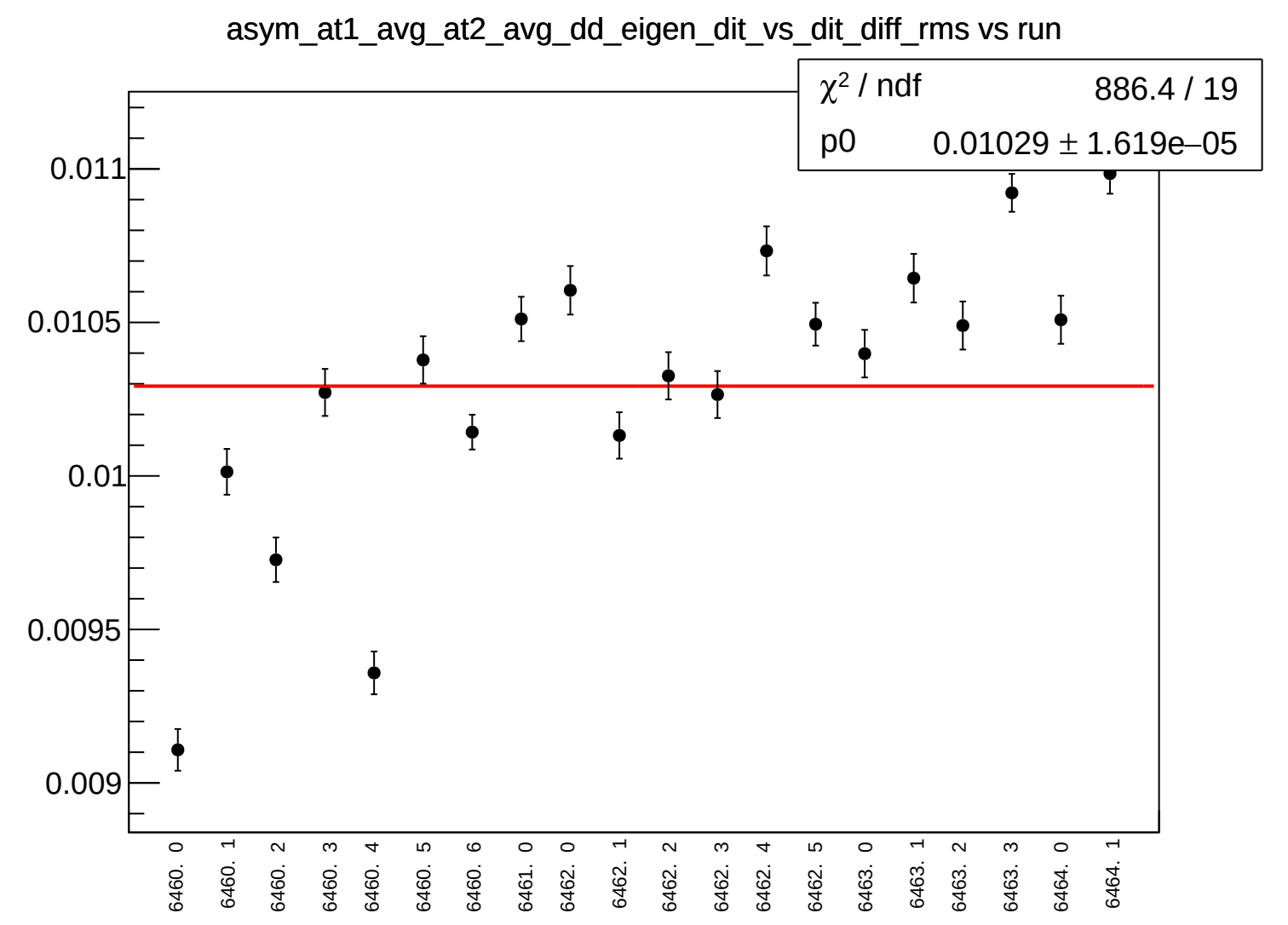

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.0387 ± 0.6153
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.925
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

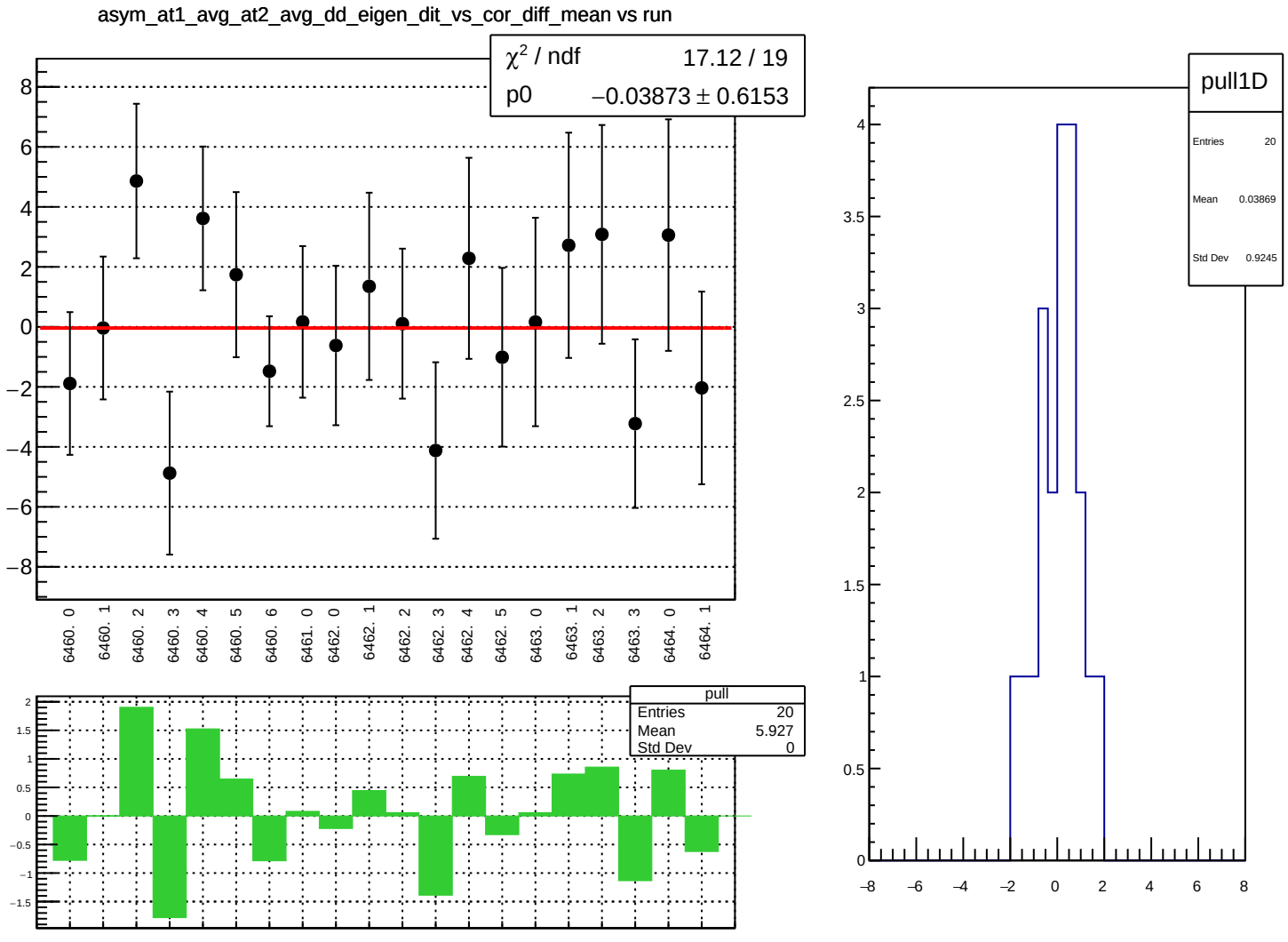

pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

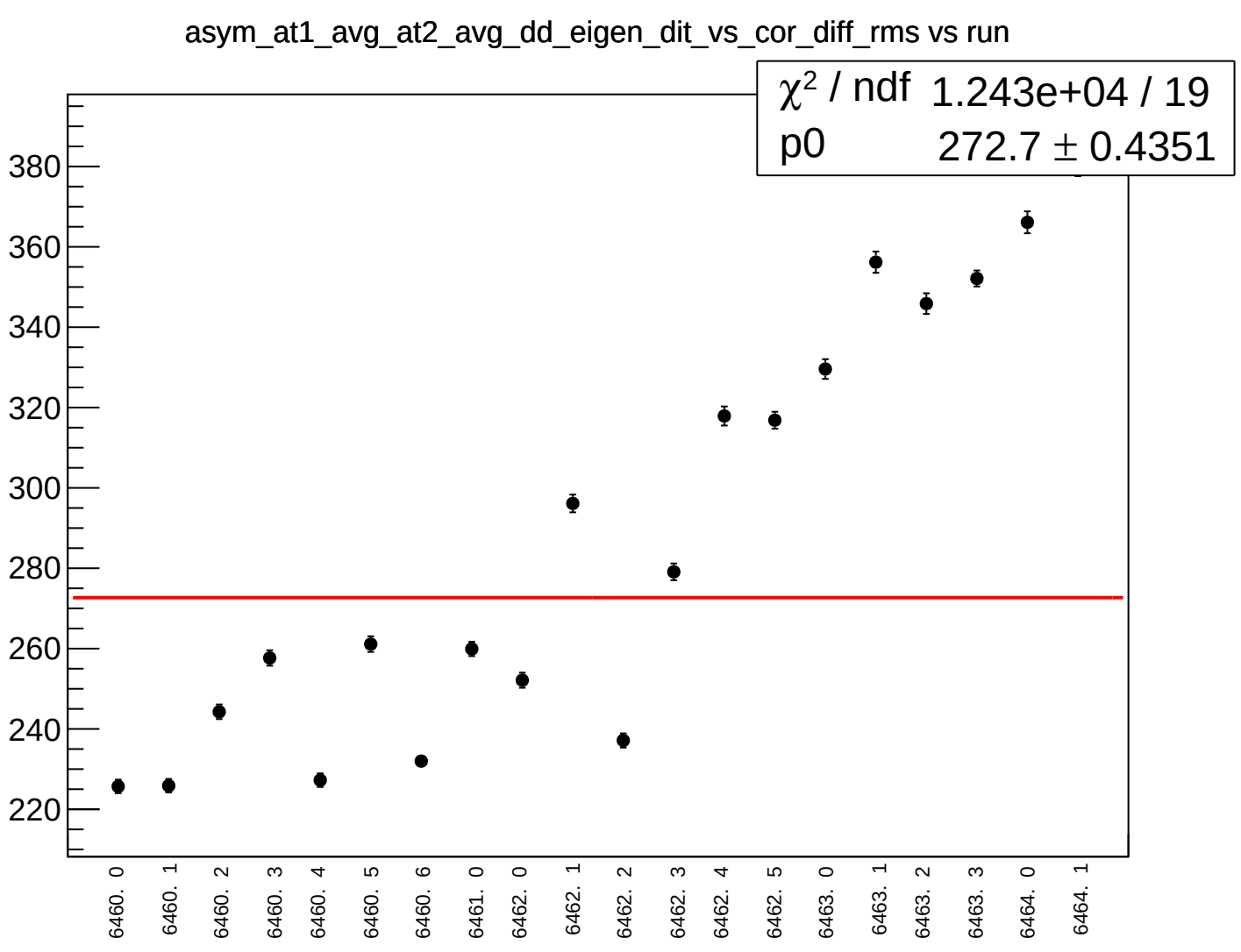

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

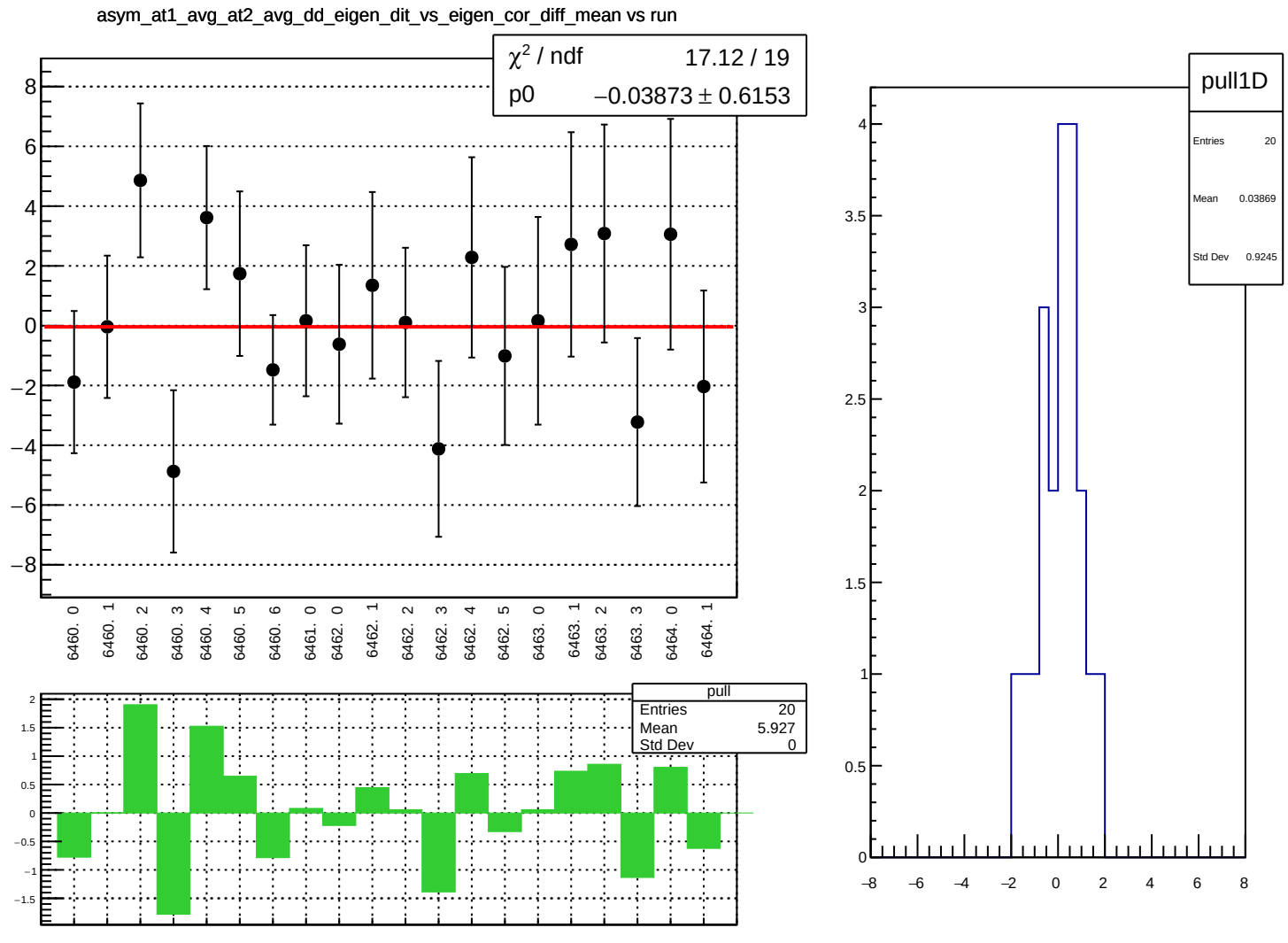

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.91 / 19
p0 −2.091e−05 ± 2.289e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

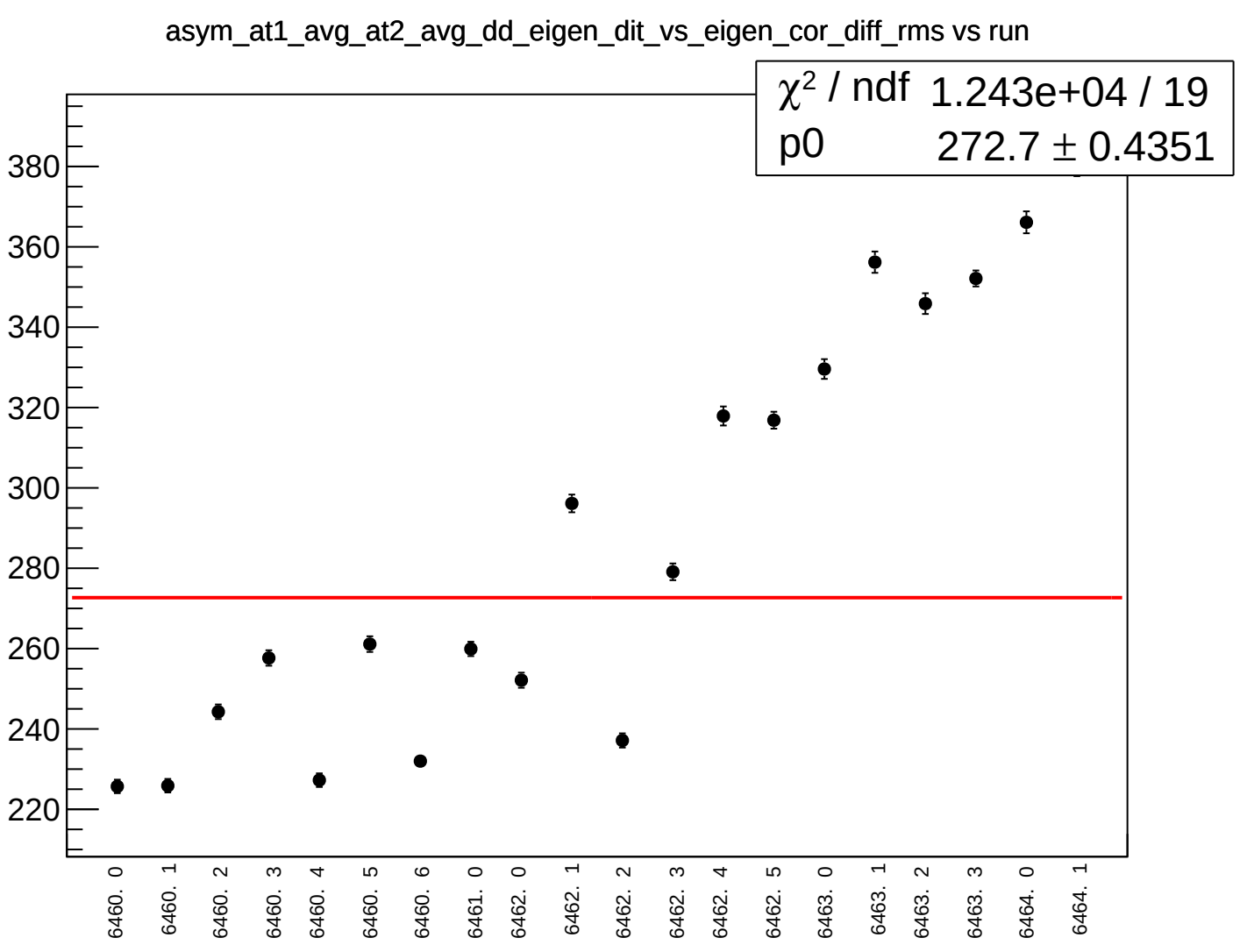

pull1D
Entries 20
Mean 0.03303
Std Dev 0.8628
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

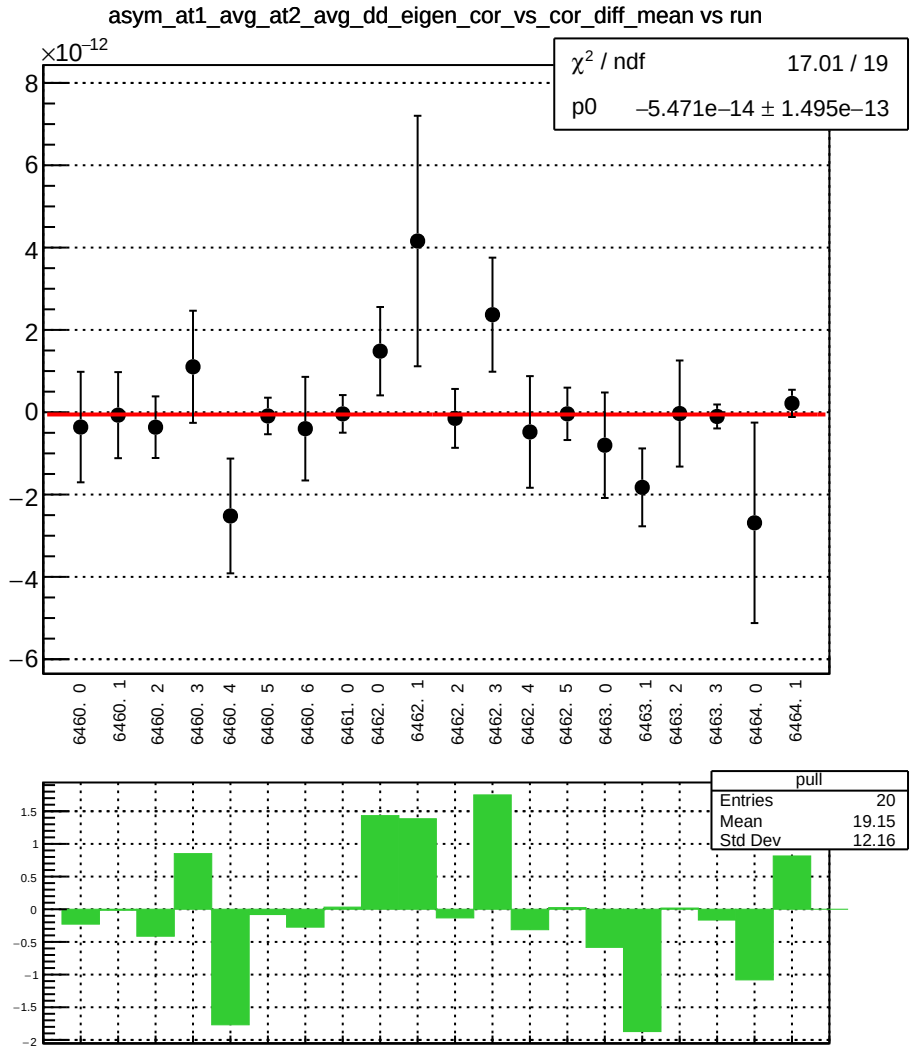

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 886.4 / 19
p0 0.01029 ± 1.619e−05
0.011
0.0105
0.01
0.0095
0.009
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

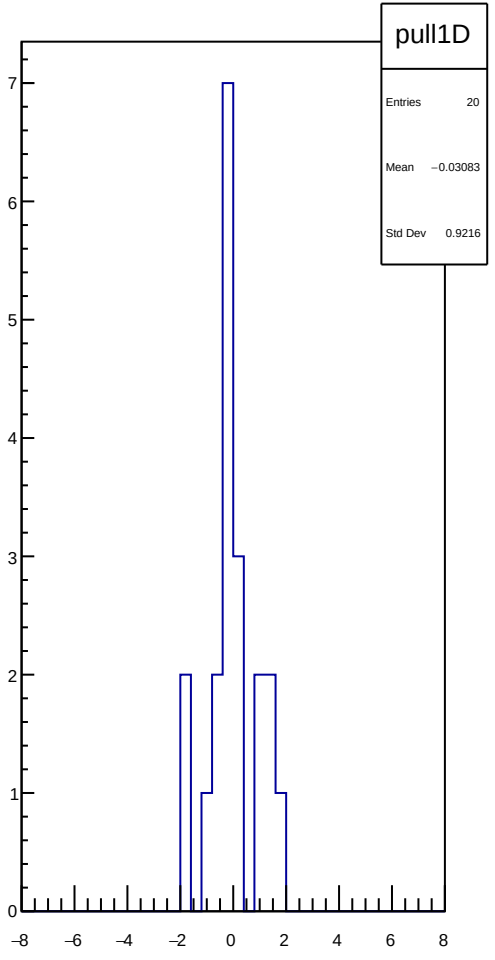

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.03873 ± 0.6153
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.927
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

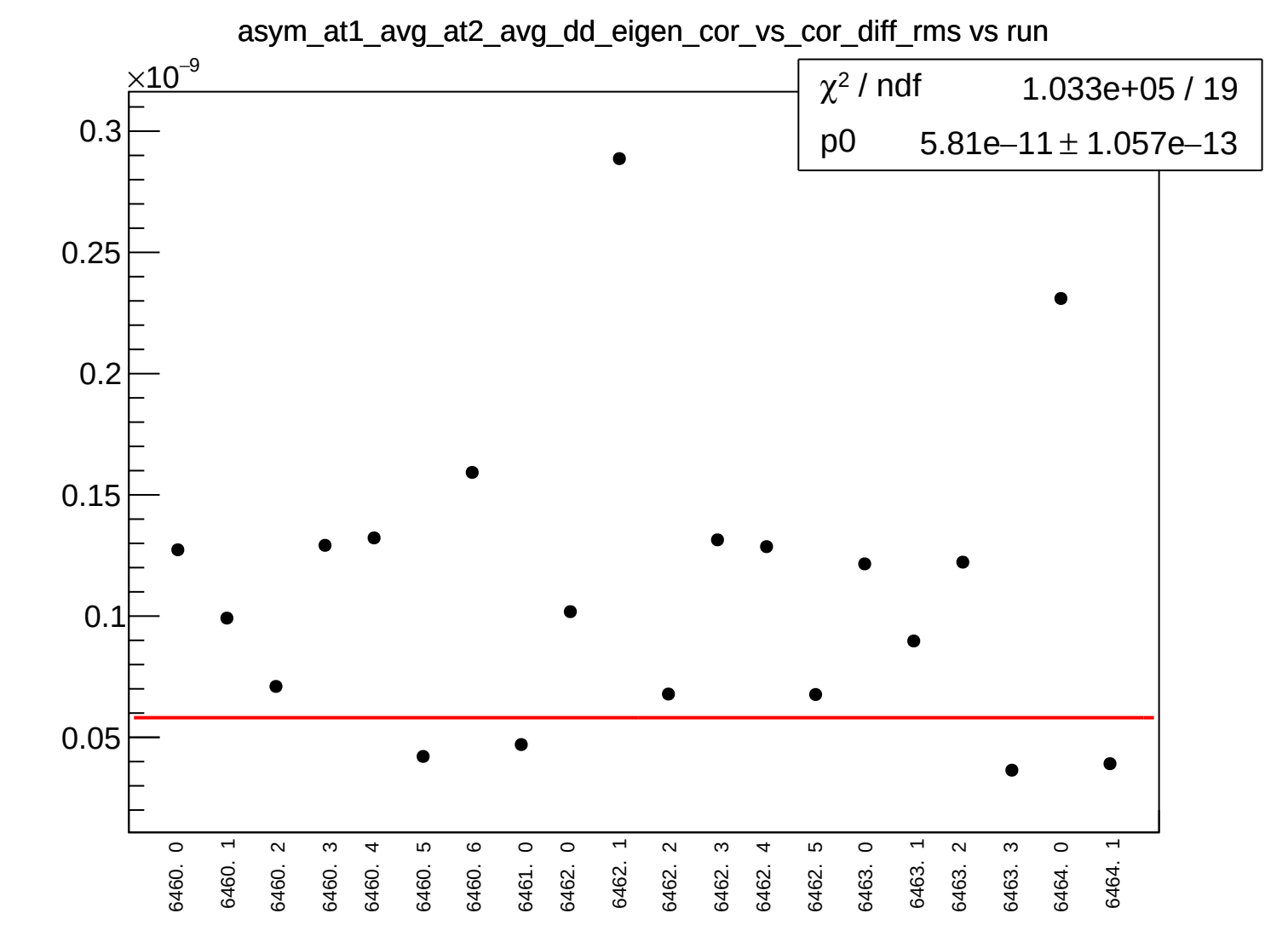

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

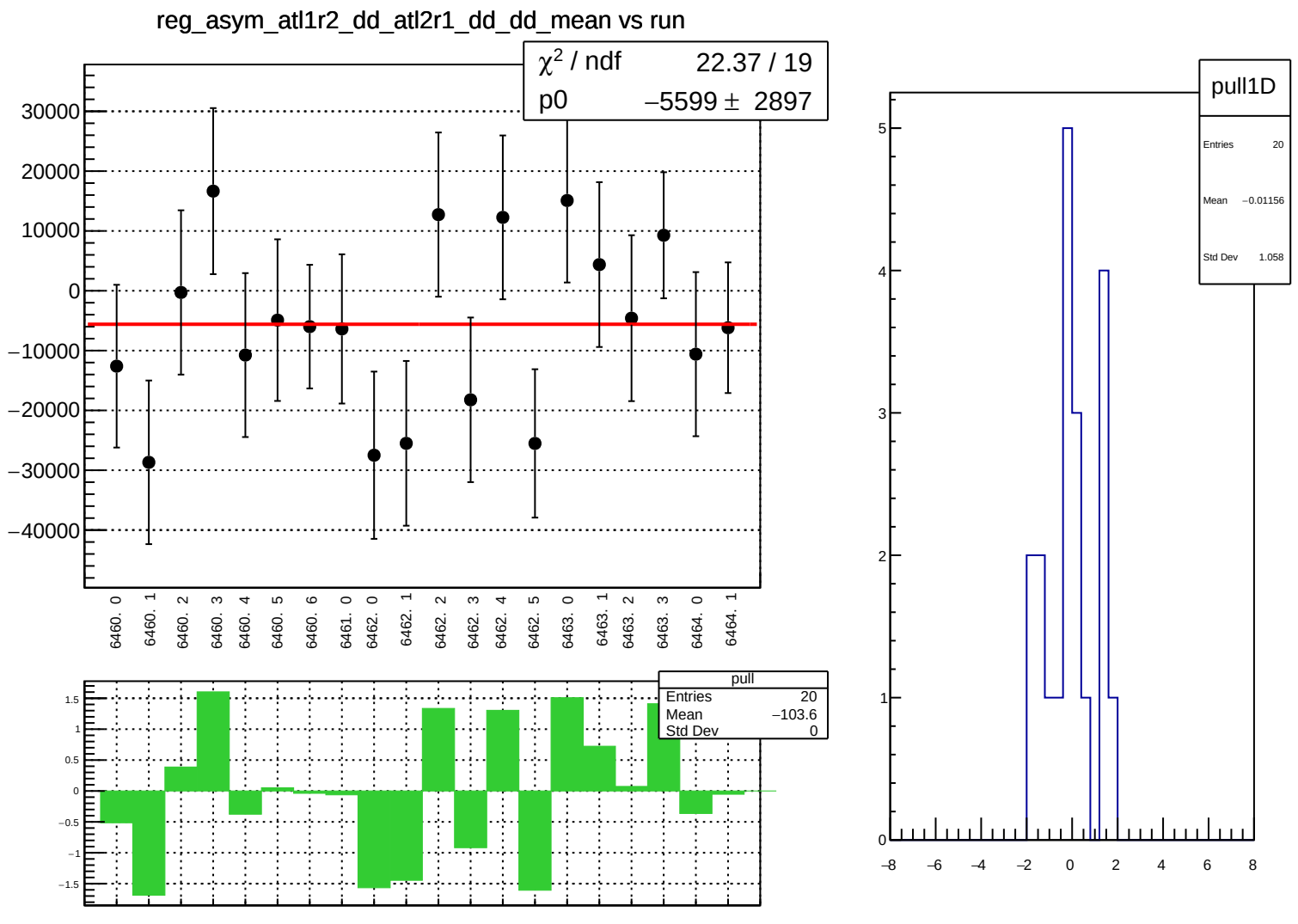

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.03873 ± 0.6153
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.927
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

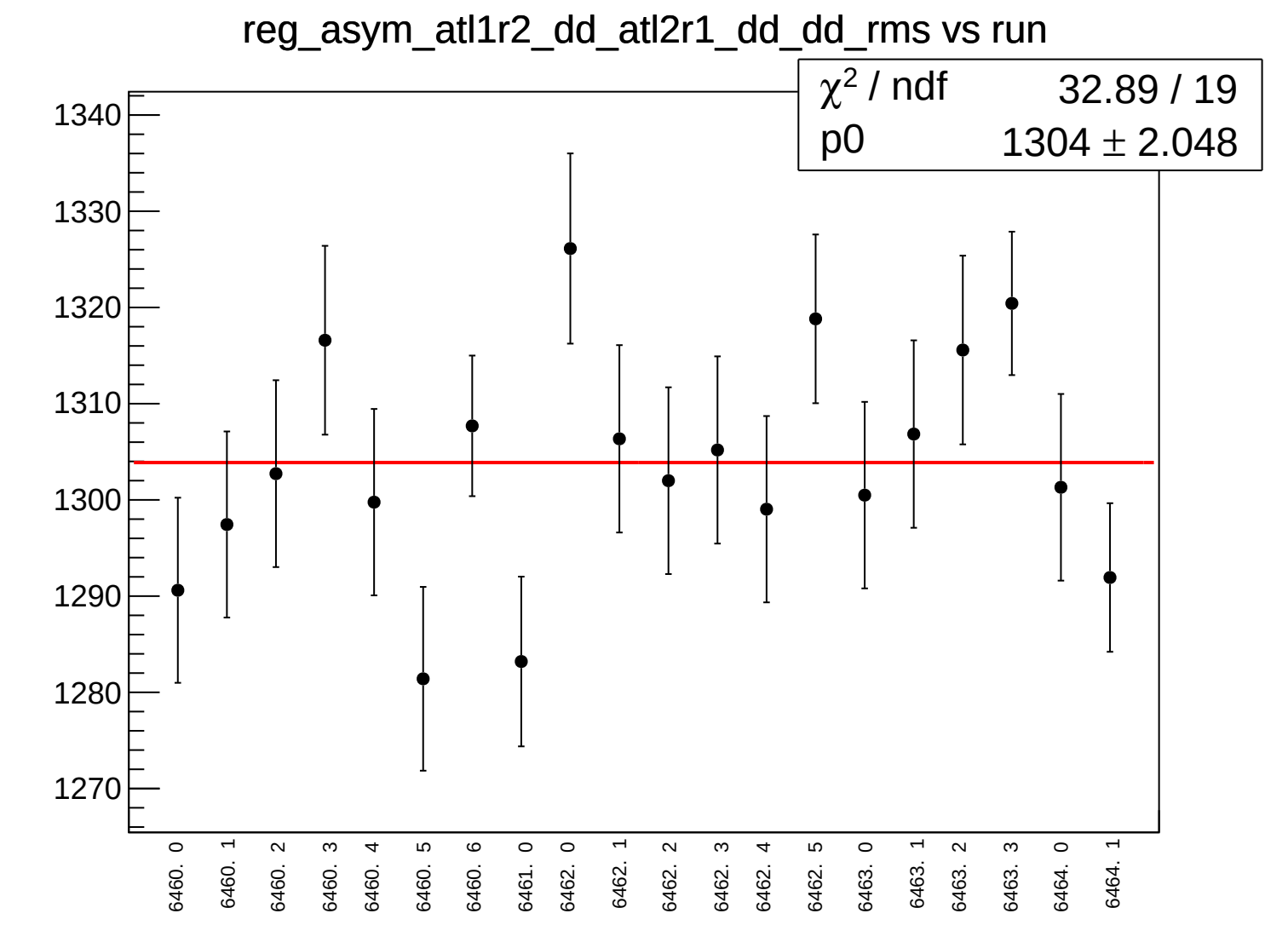

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

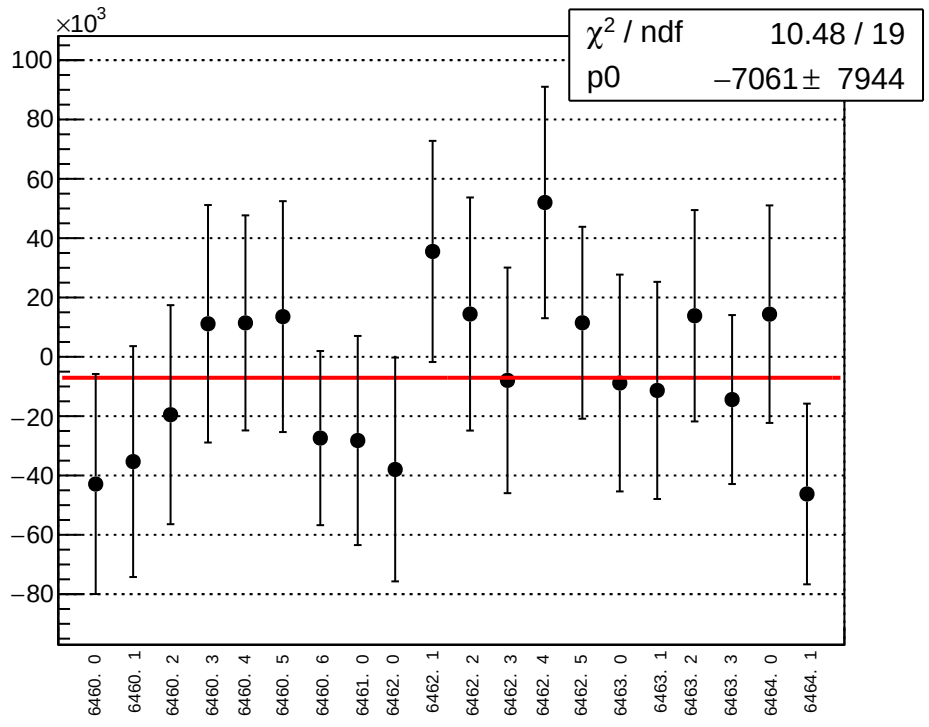

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.01 / 19
p0 −5.471e−14 ± 1.495e−13
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.15
Std Dev 12.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

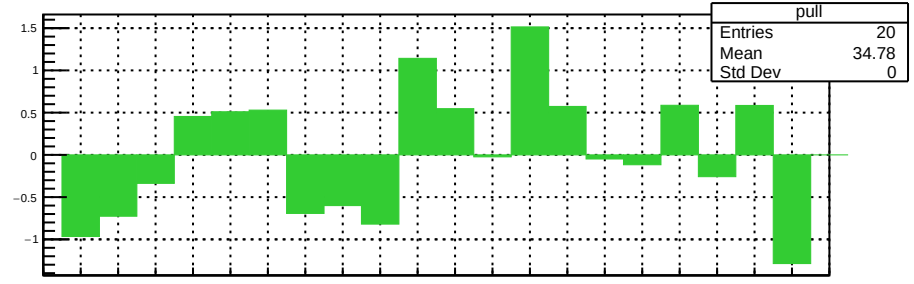

pull1D
Entries 20
Mean −0.03083
Std Dev 0.9216
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

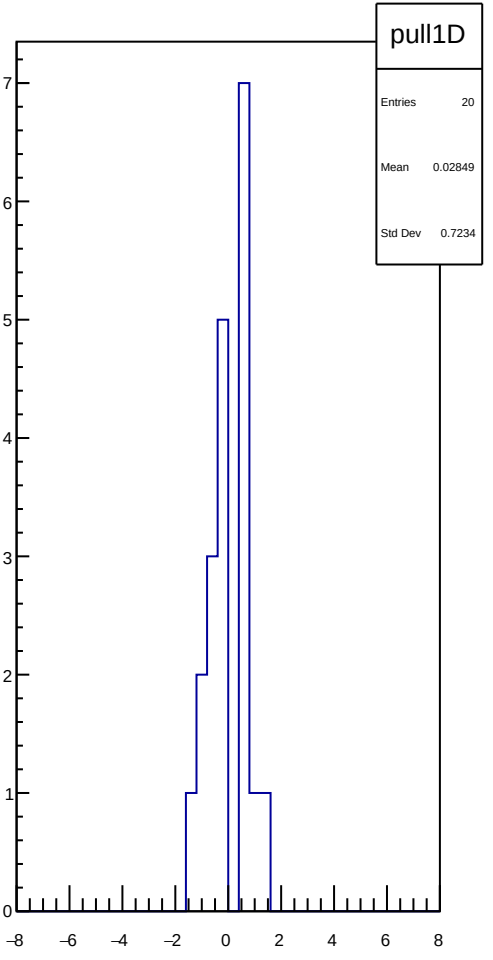

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.033e+05 / 19
p0 5.81e−11 ± 1.057e−13
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

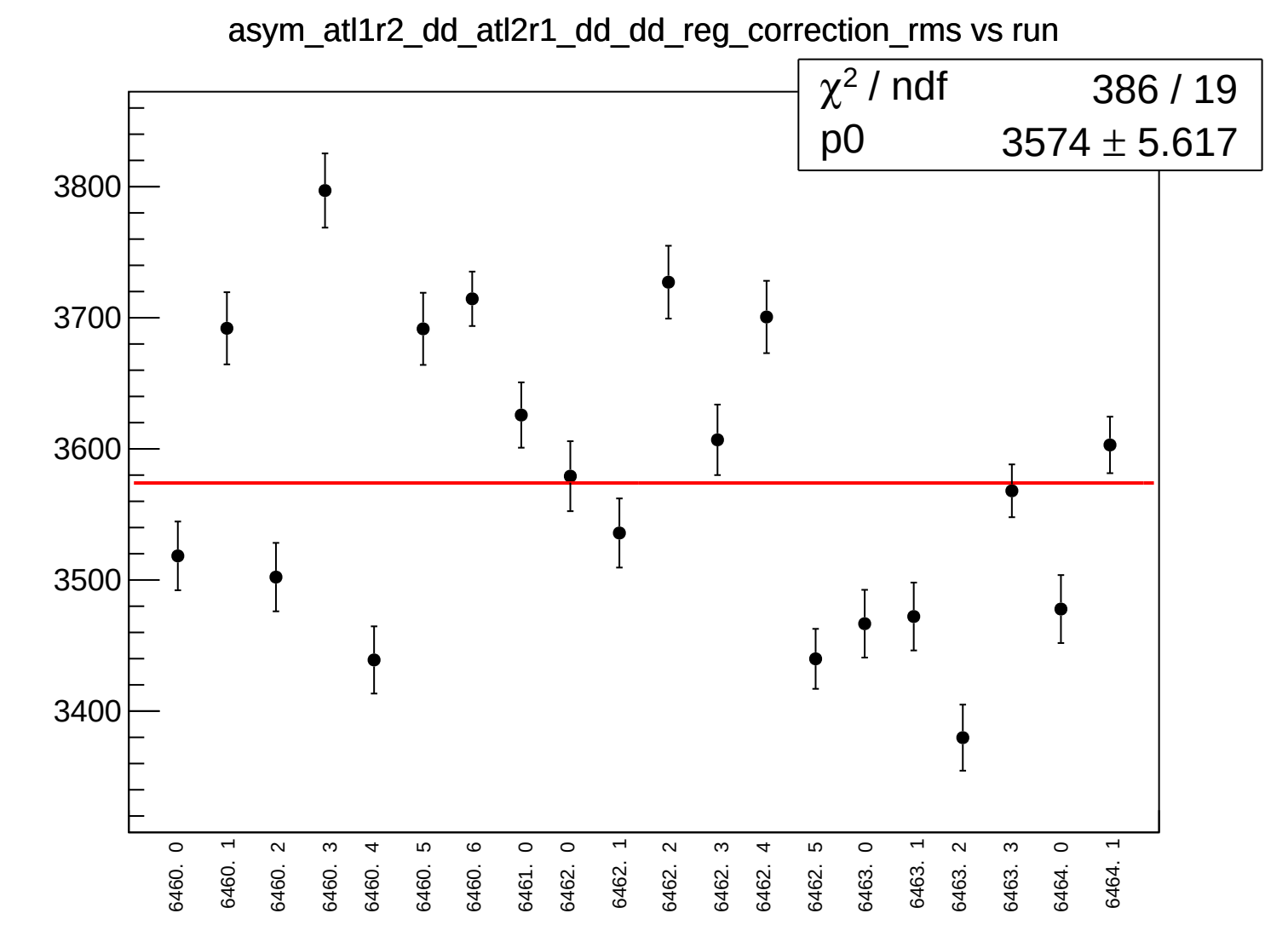

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 22.37 / 19
p0 −5599 ± 2897
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01156
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

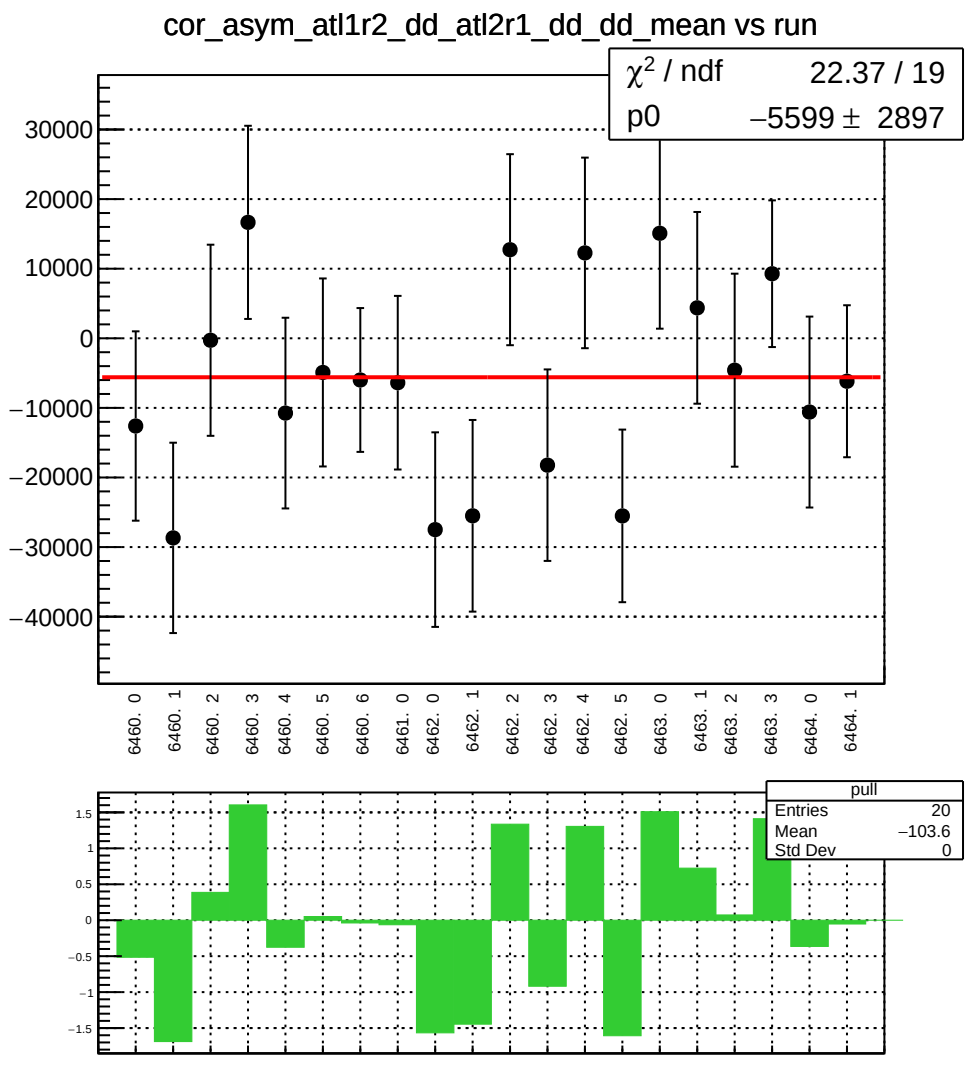

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 32.89 / 19
p0 1304 ± 2.048
1340
1330
1320
1310
1300
1290
1280
1270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

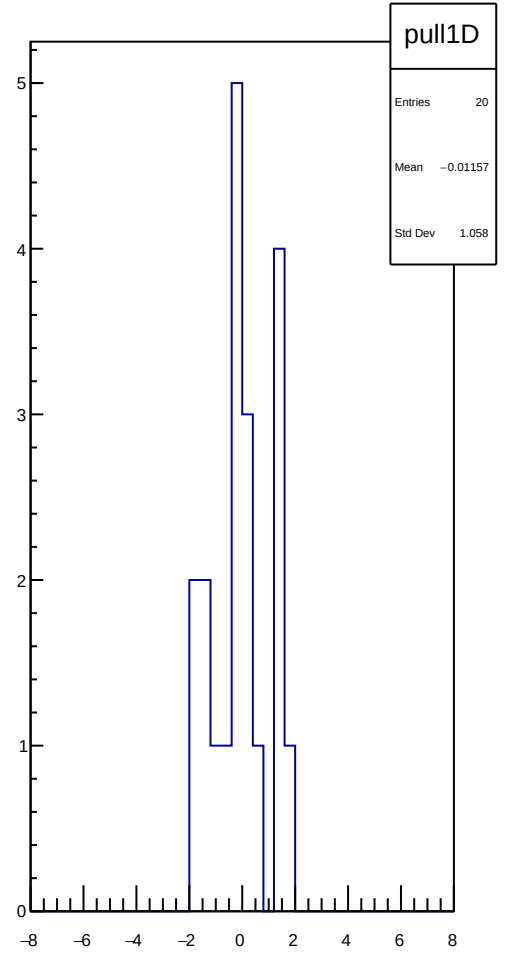

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 10.48 / 19
p0 −7061 ± 7944
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

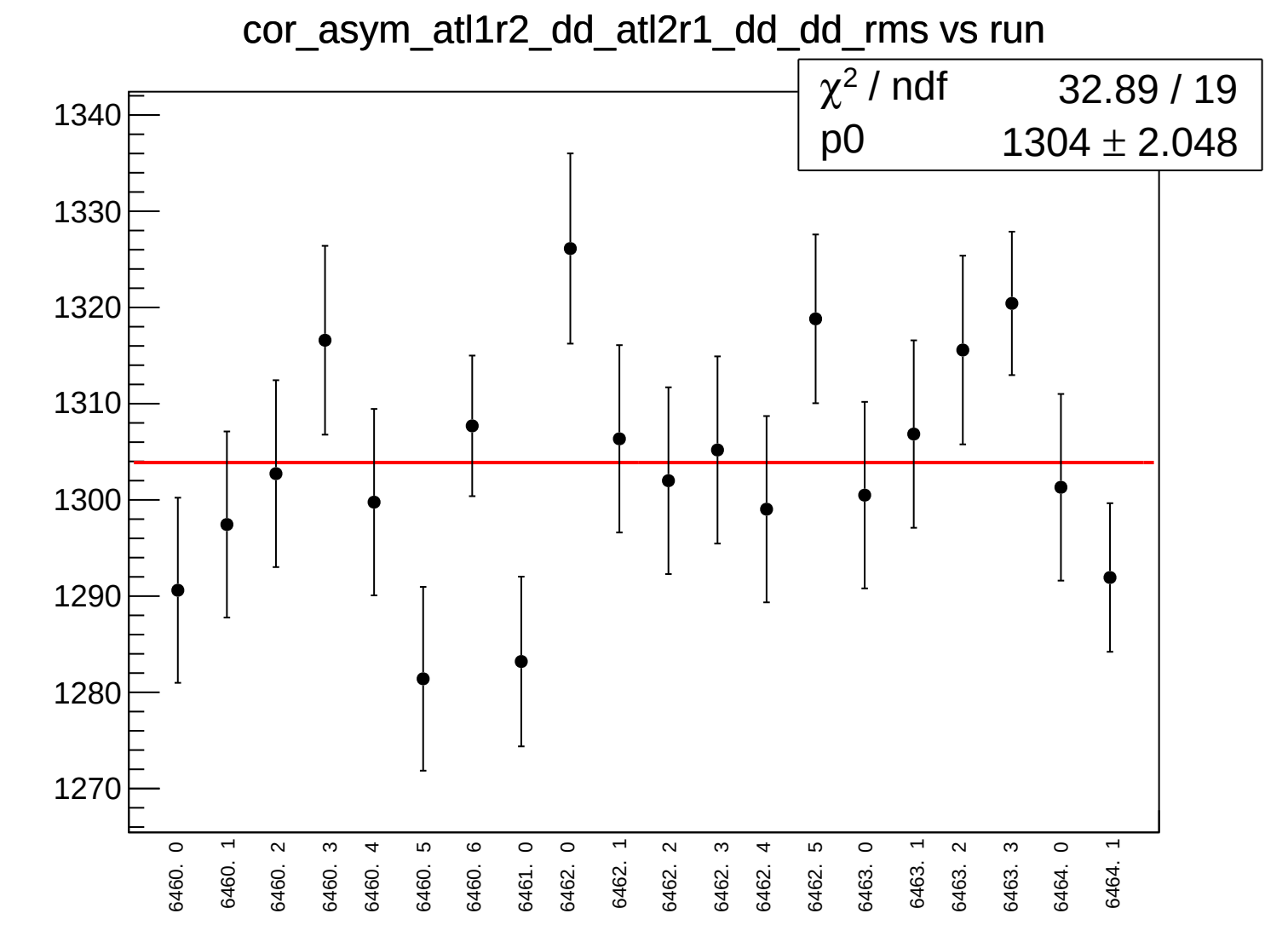

pull
Entries 20
Mean 34.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1

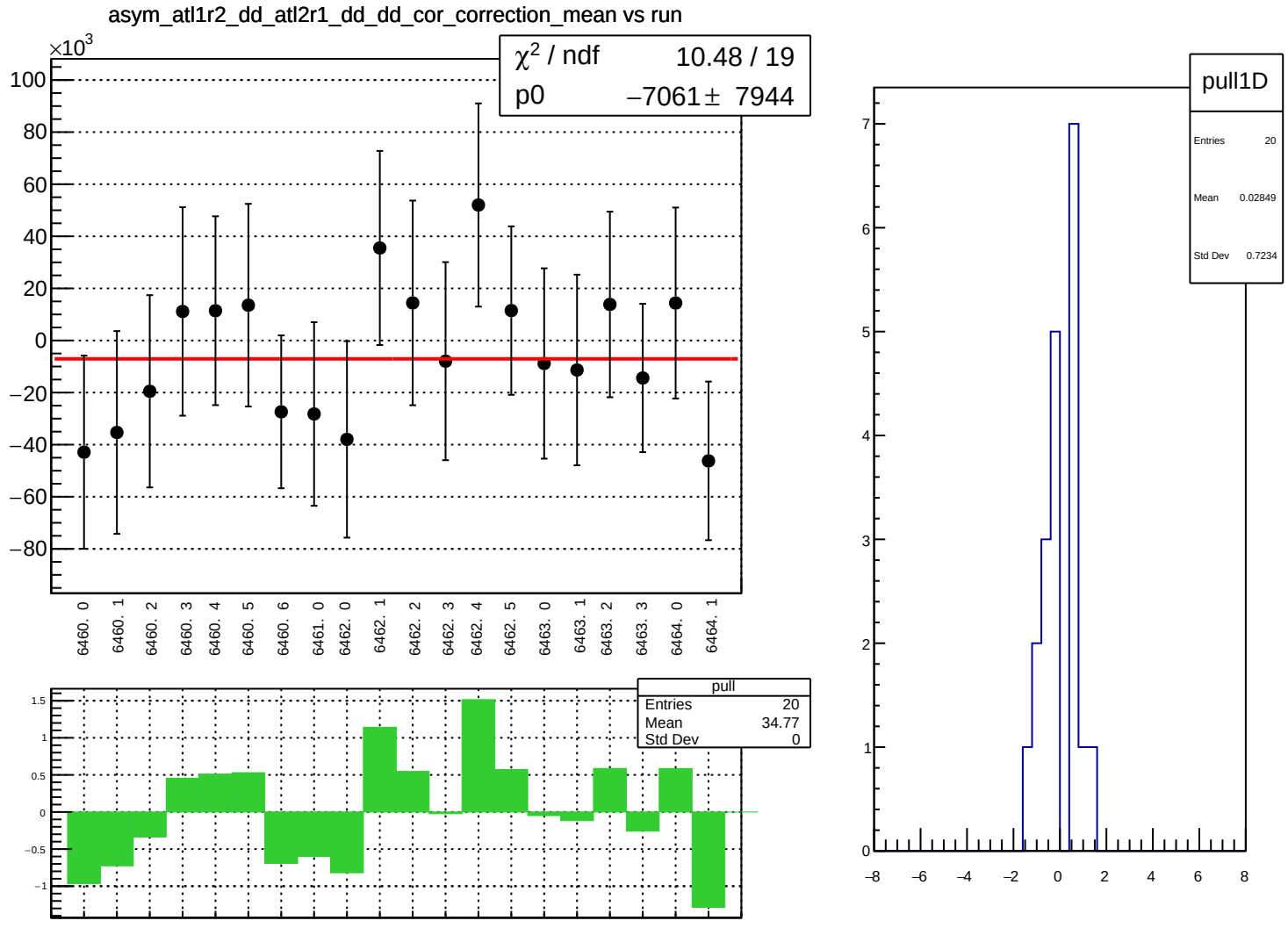

pull1D
Entries 20
Mean 0.02849
Std Dev 0.7234
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

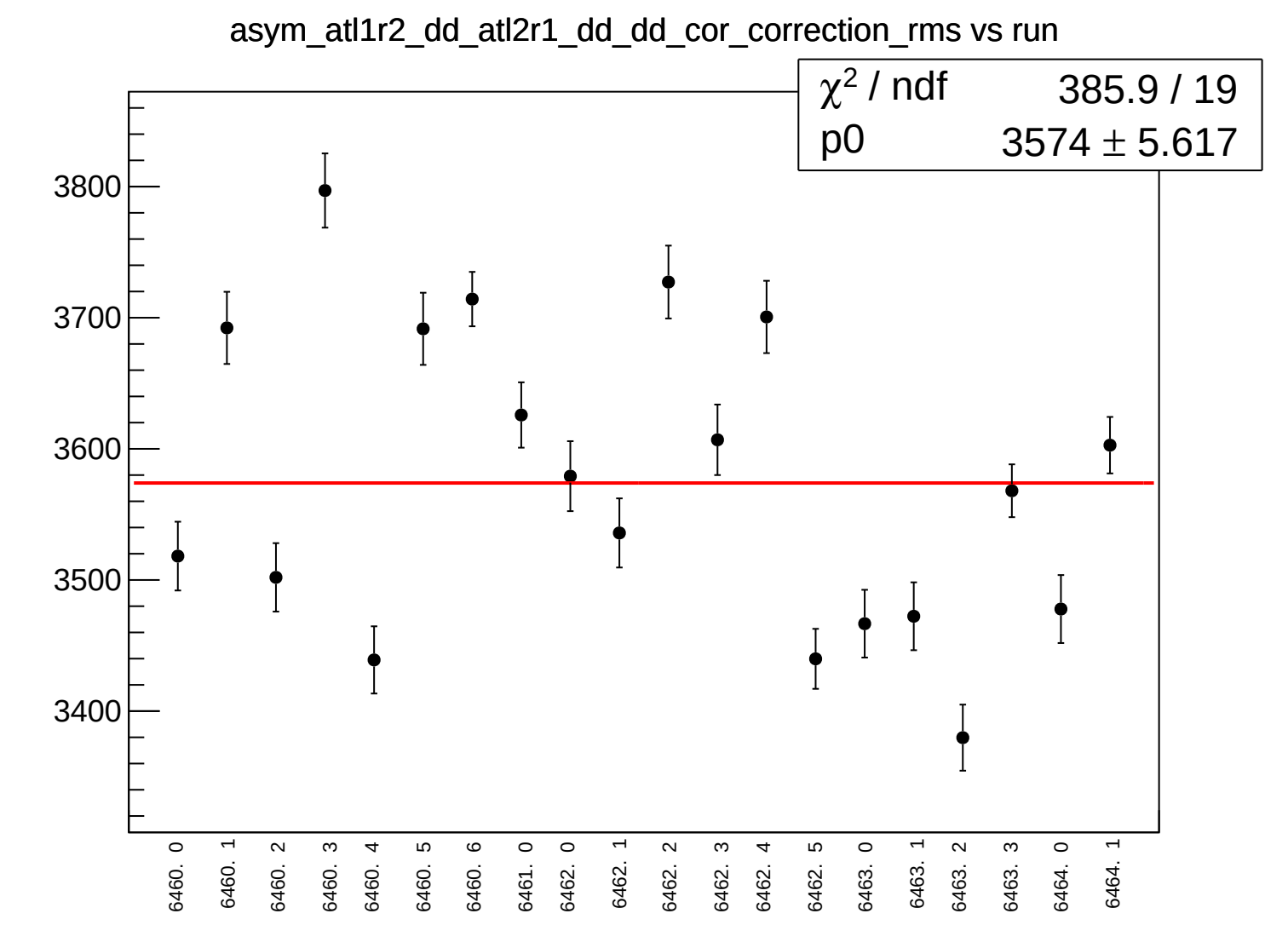

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 386 / 19
p0 3574 ± 5.617
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

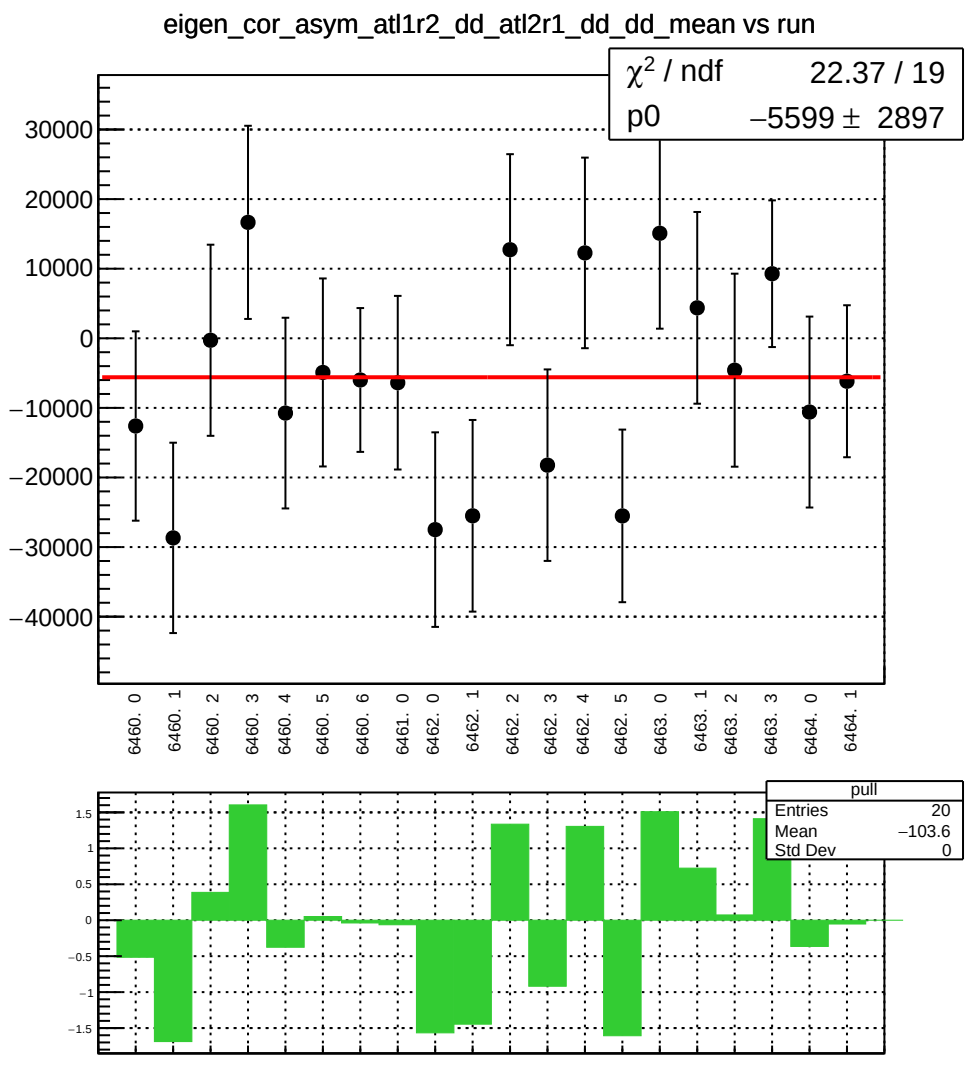

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 22.37 / 19
p0 −5599 ± 2897
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

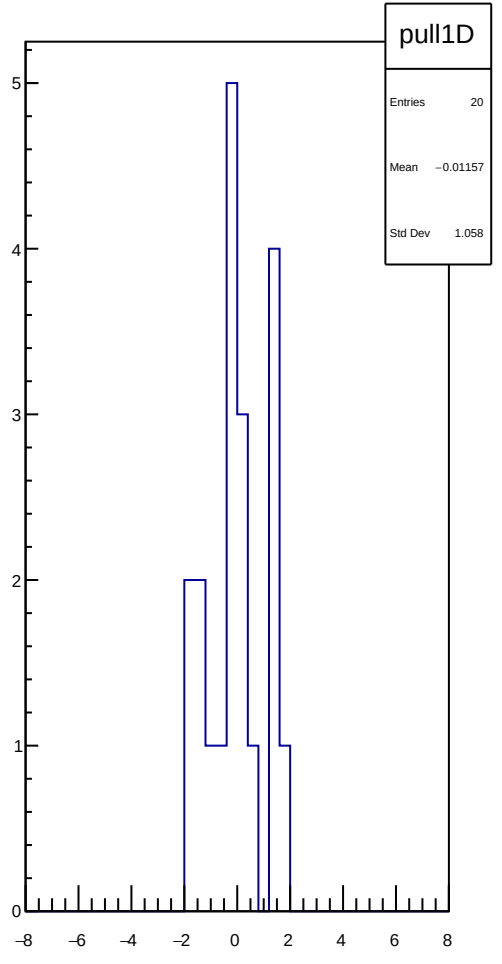

pull1D
Entries 20
Mean −0.01157
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

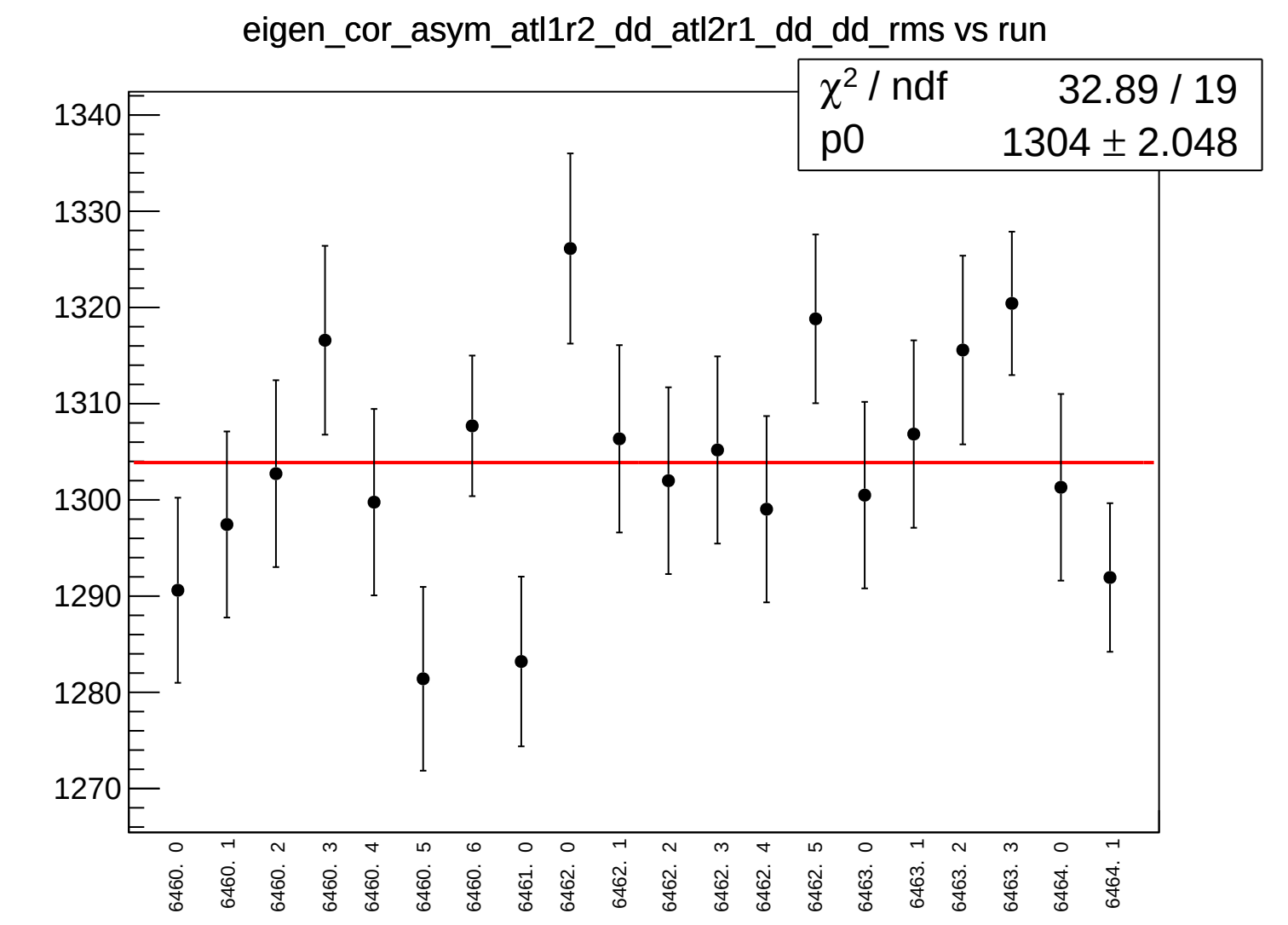

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 32.89 / 19
p0 1304 ± 2.048
1340
1330
1320
1310
1300
1290
1280
1270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

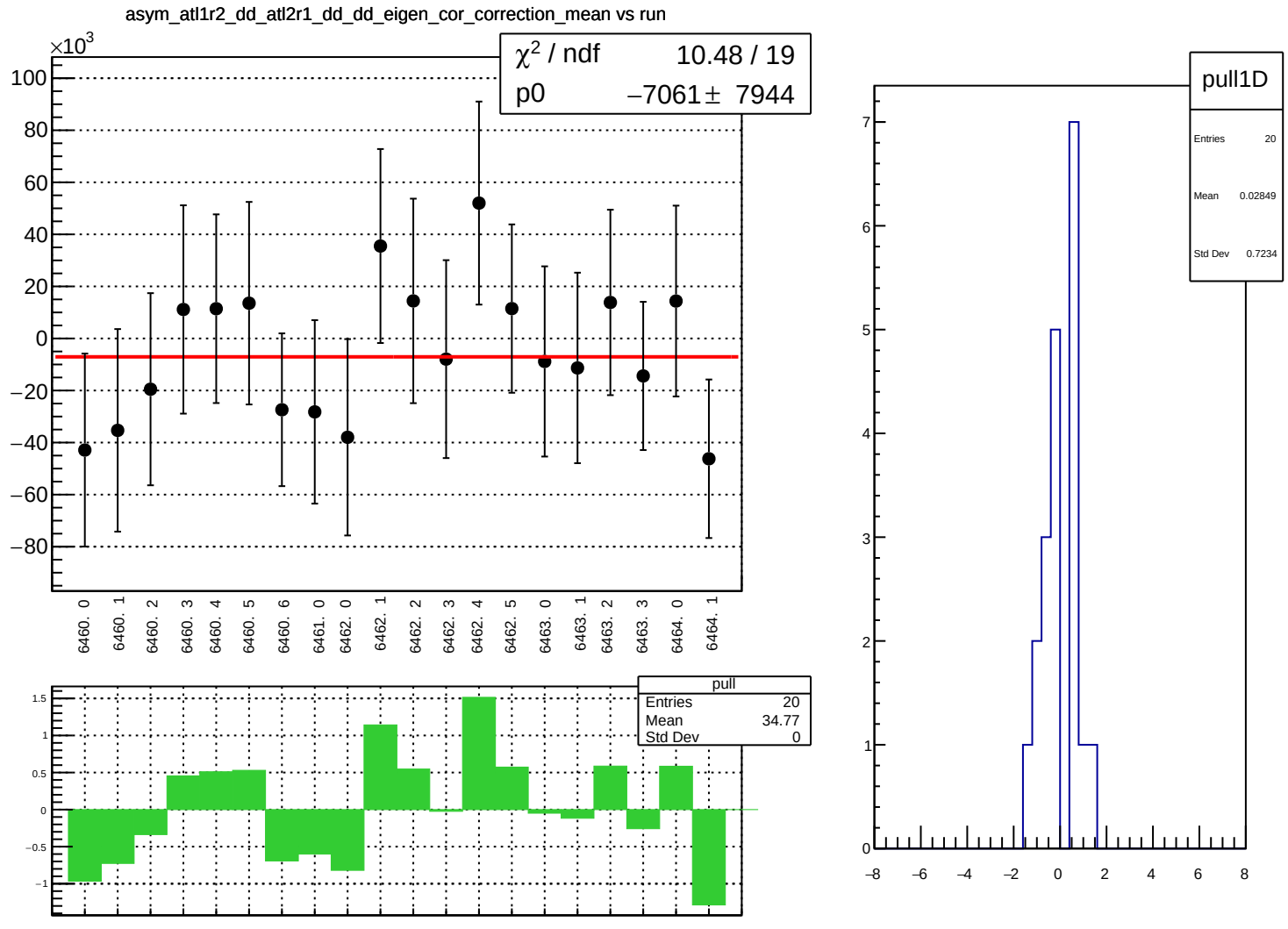

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 10.48 / 19
p0 −7061 ± 7944
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02849
Std Dev 0.7234
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

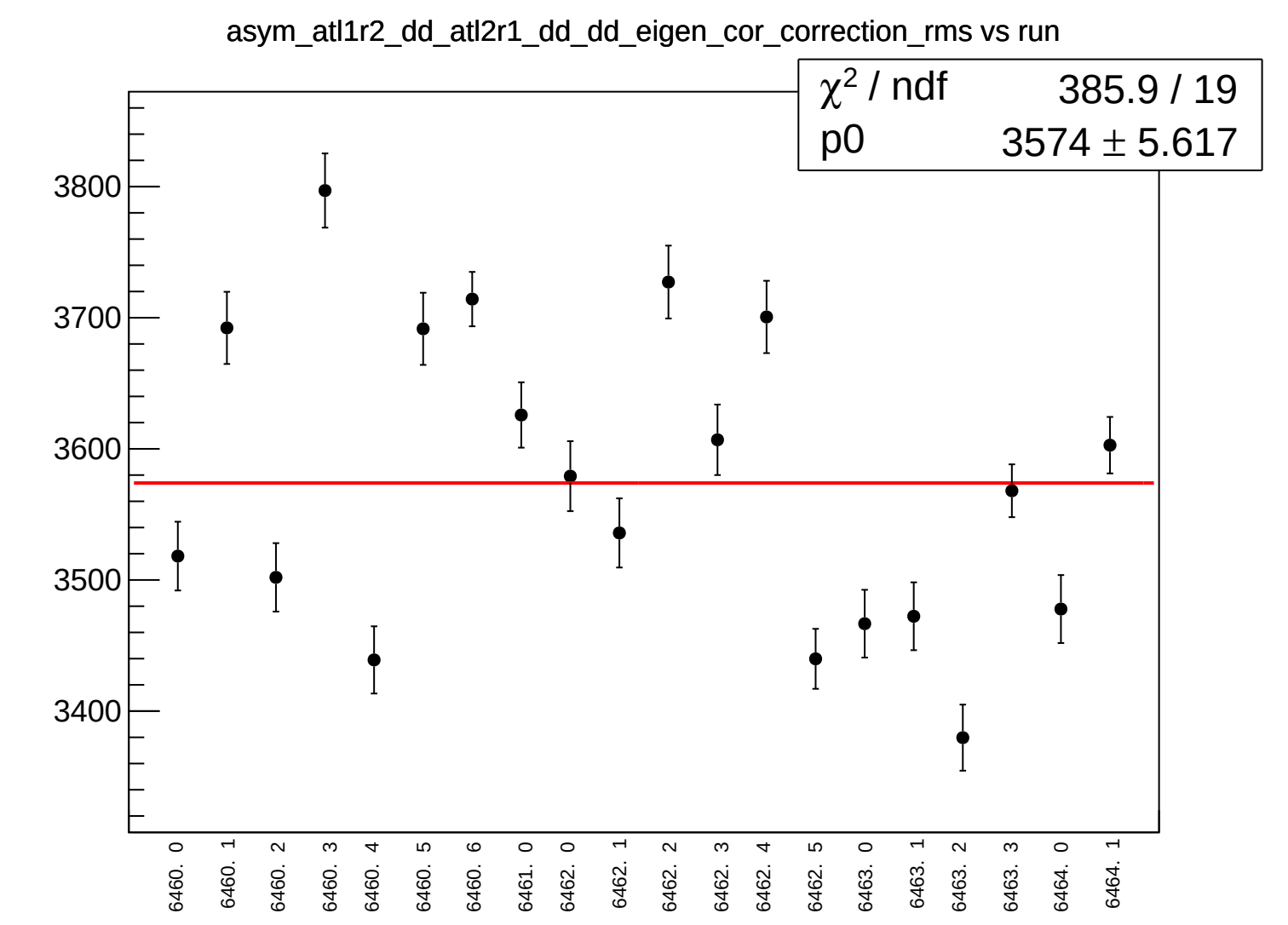

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 385.9 / 19
p0 3574 ± 5.617
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

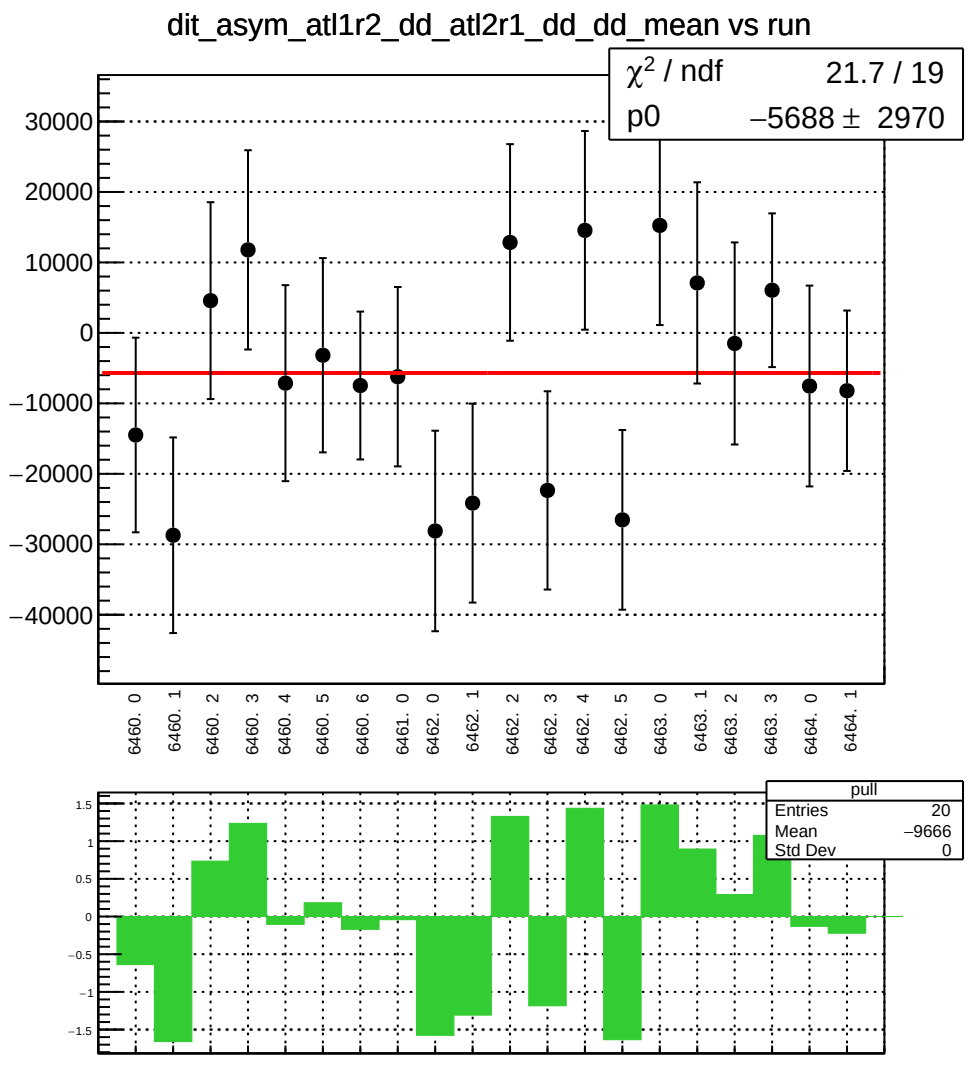

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 22.37 / 19
p0 −5599 ± 2897
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

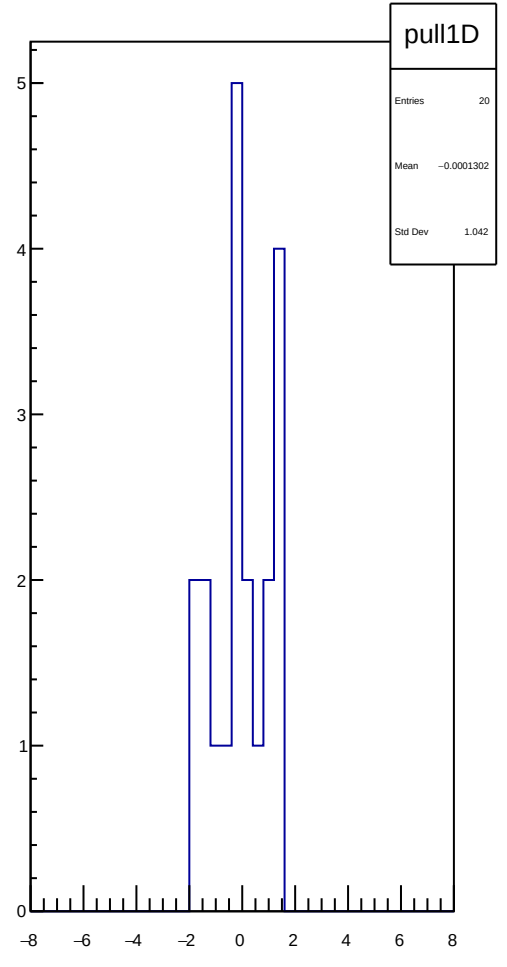

pull1D
Entries 20
Mean −0.01157
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

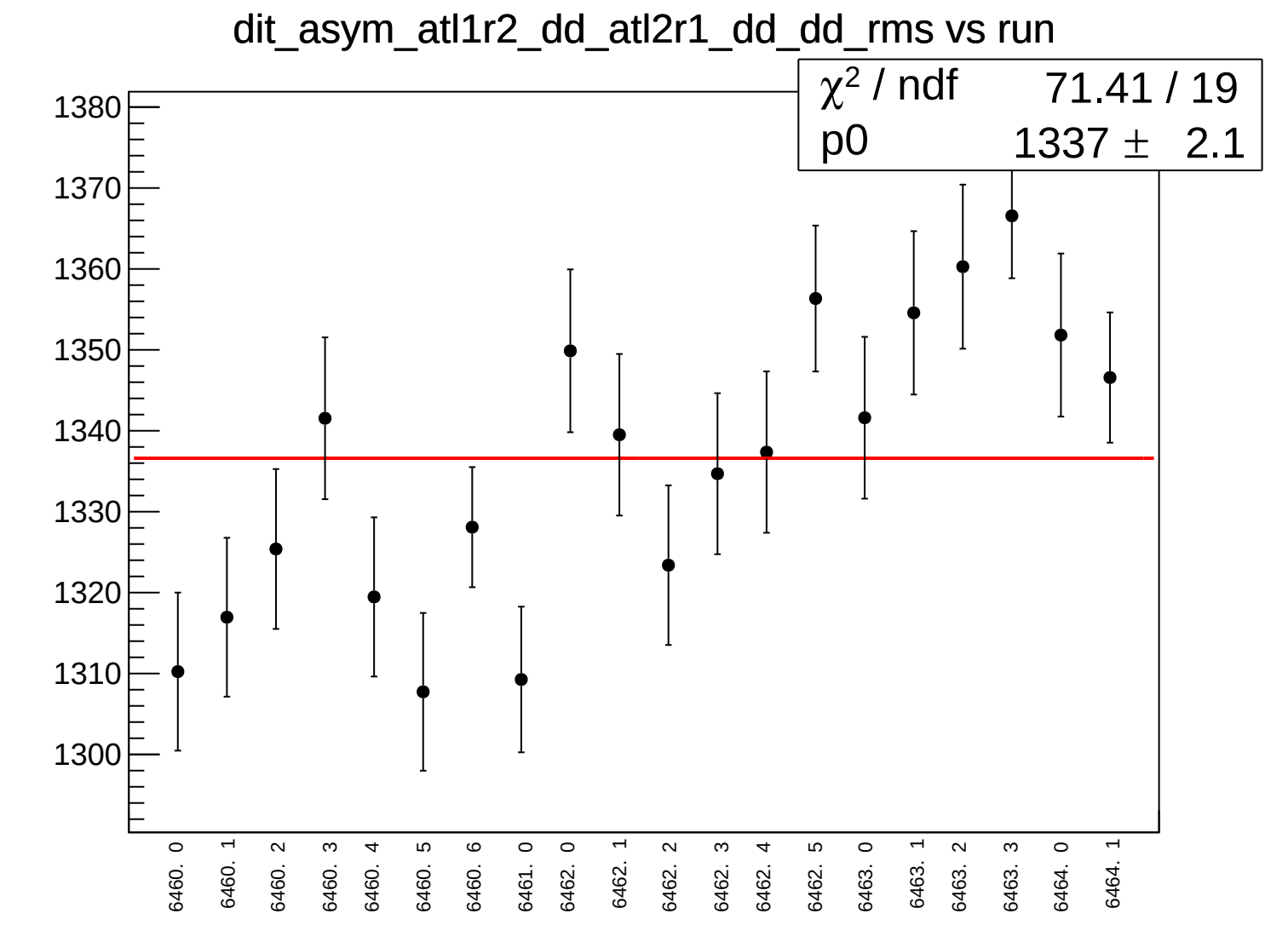

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 32.89 / 19
p0 1304 ± 2.048
1340
1330
1320
1310
1300
1290
1280
1270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

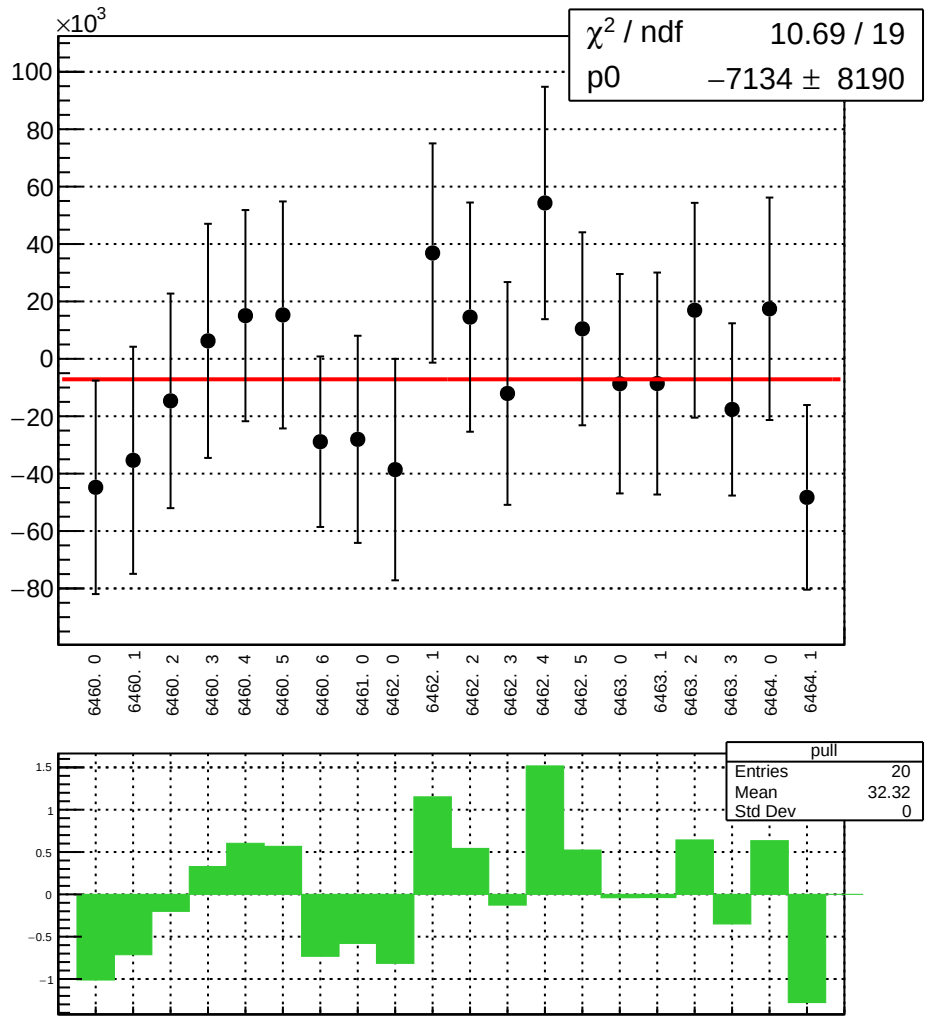

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 10.48 / 19
p0 −7061 ± 7944
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02849
Std Dev 0.7234
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

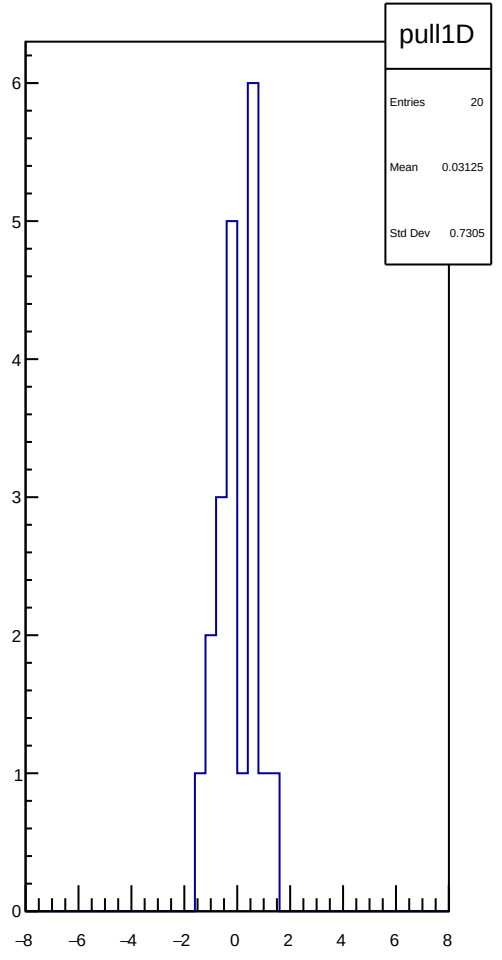

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 385.9 / 19
p0 3574 ± 5.617
3800
3700
3600
3500
3400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

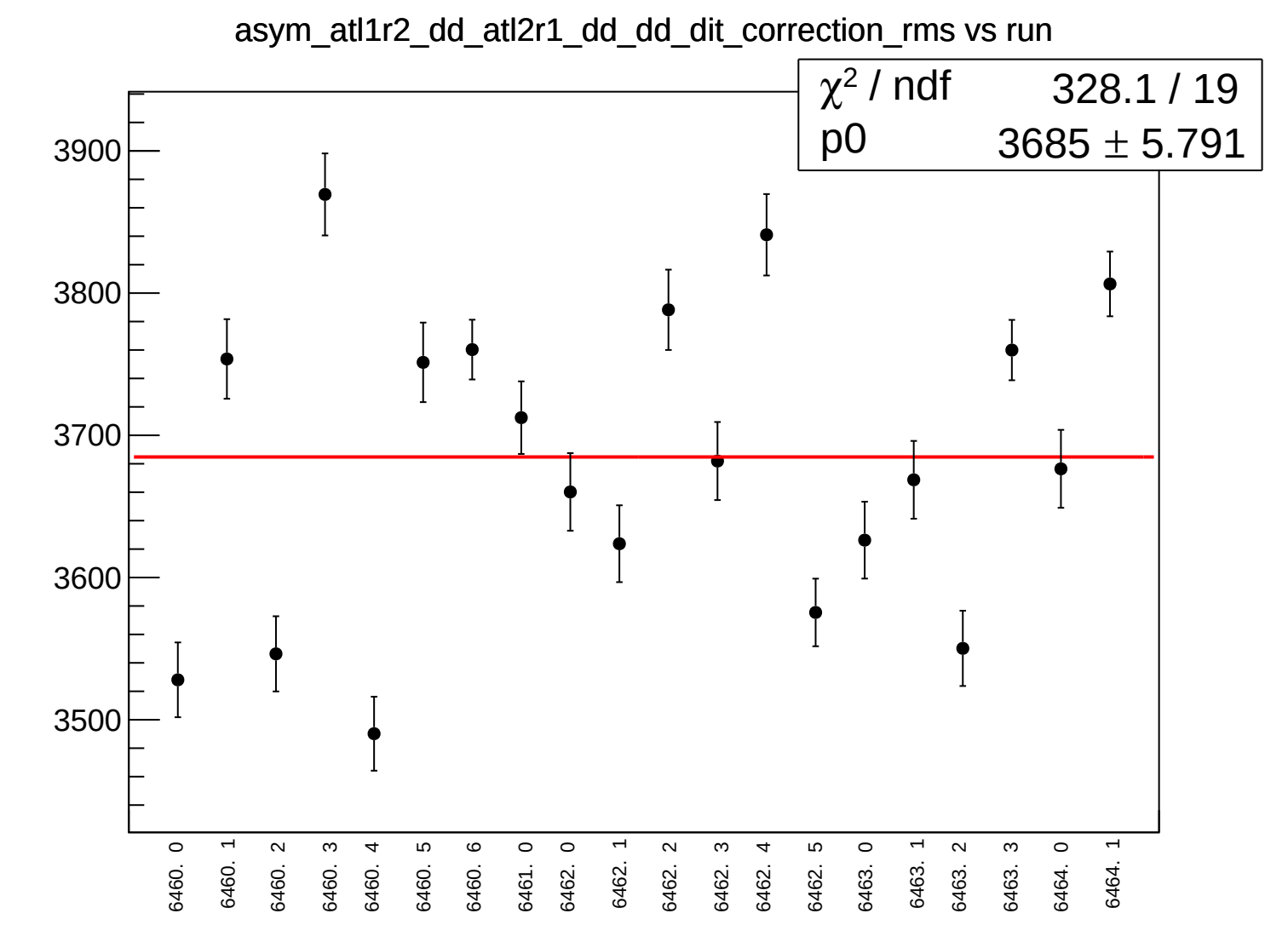

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 21.7 / 19
p0 −5688 ± 2970
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −9666
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

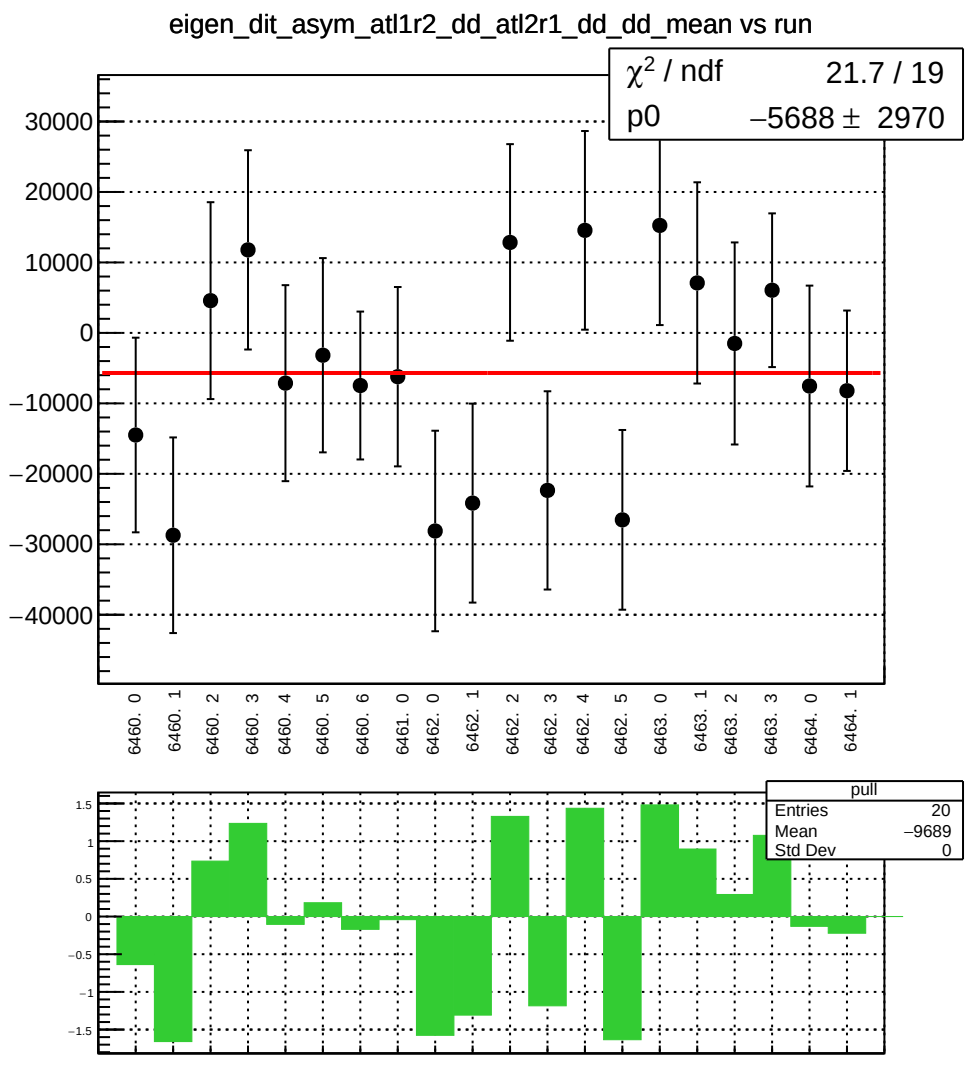

pull1D
Entries 20
Mean −0.0001302
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

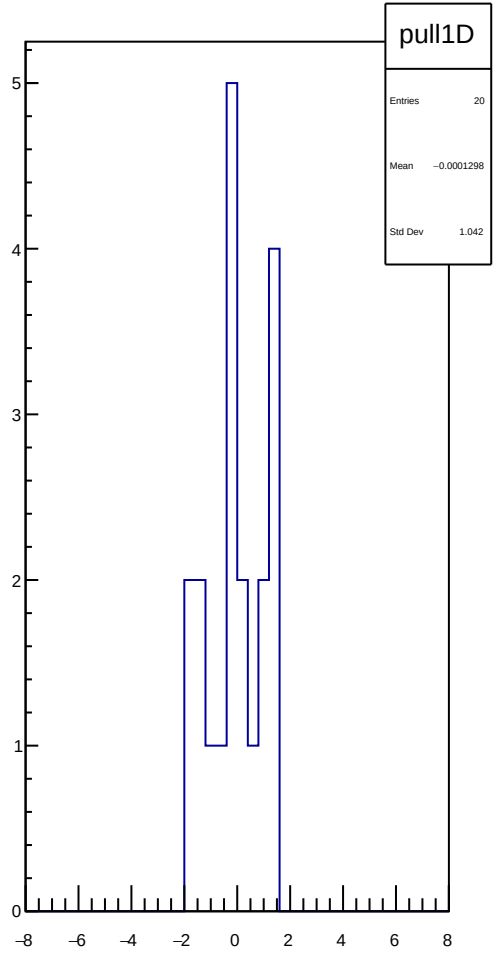

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 71.41 / 19
p0 1337 ± 2.1
1380
1370
1360
1350
1340
1330
1320
1310
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

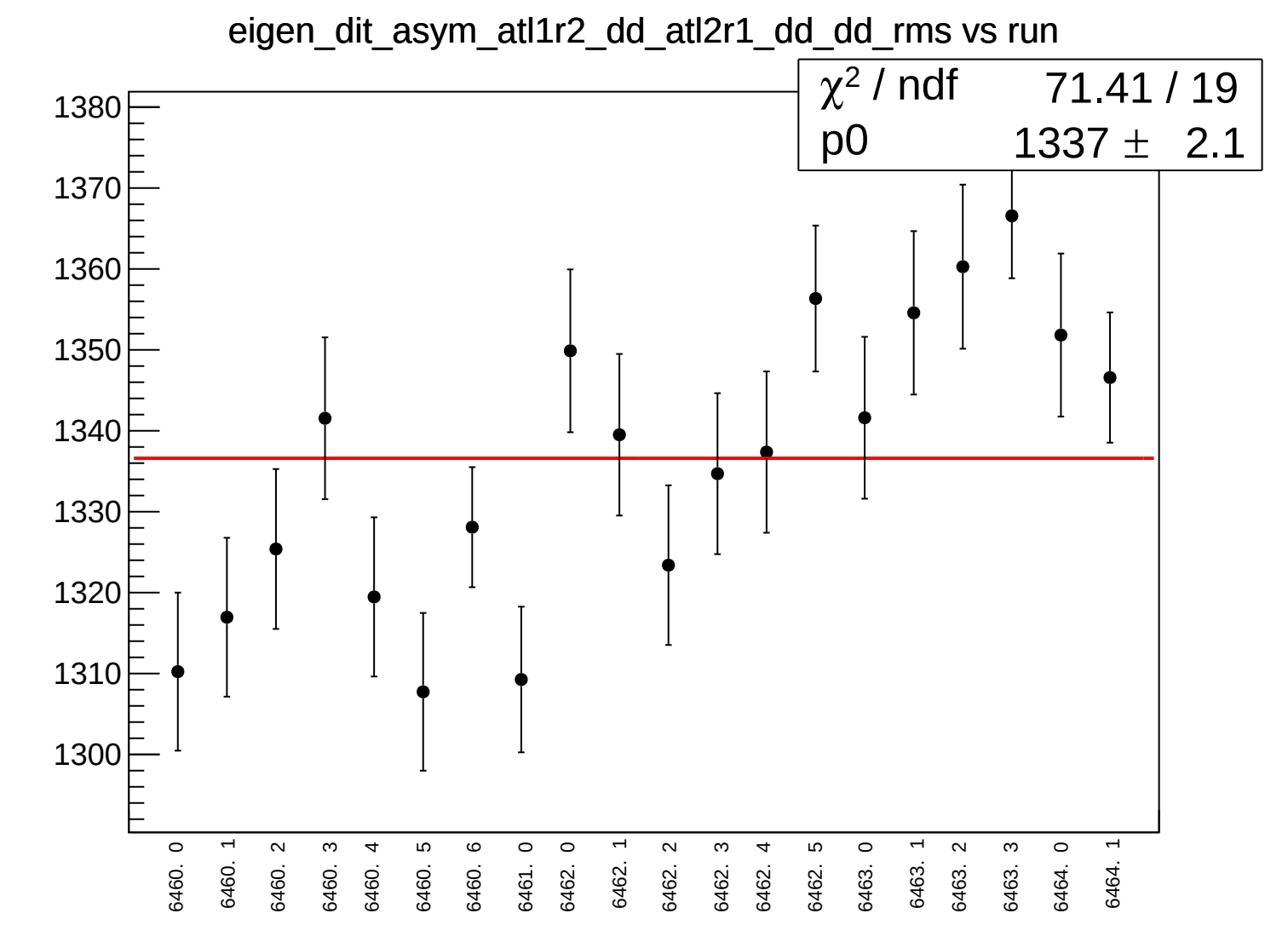

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 10.69 / 19
p0 −7134 ± 8190
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1

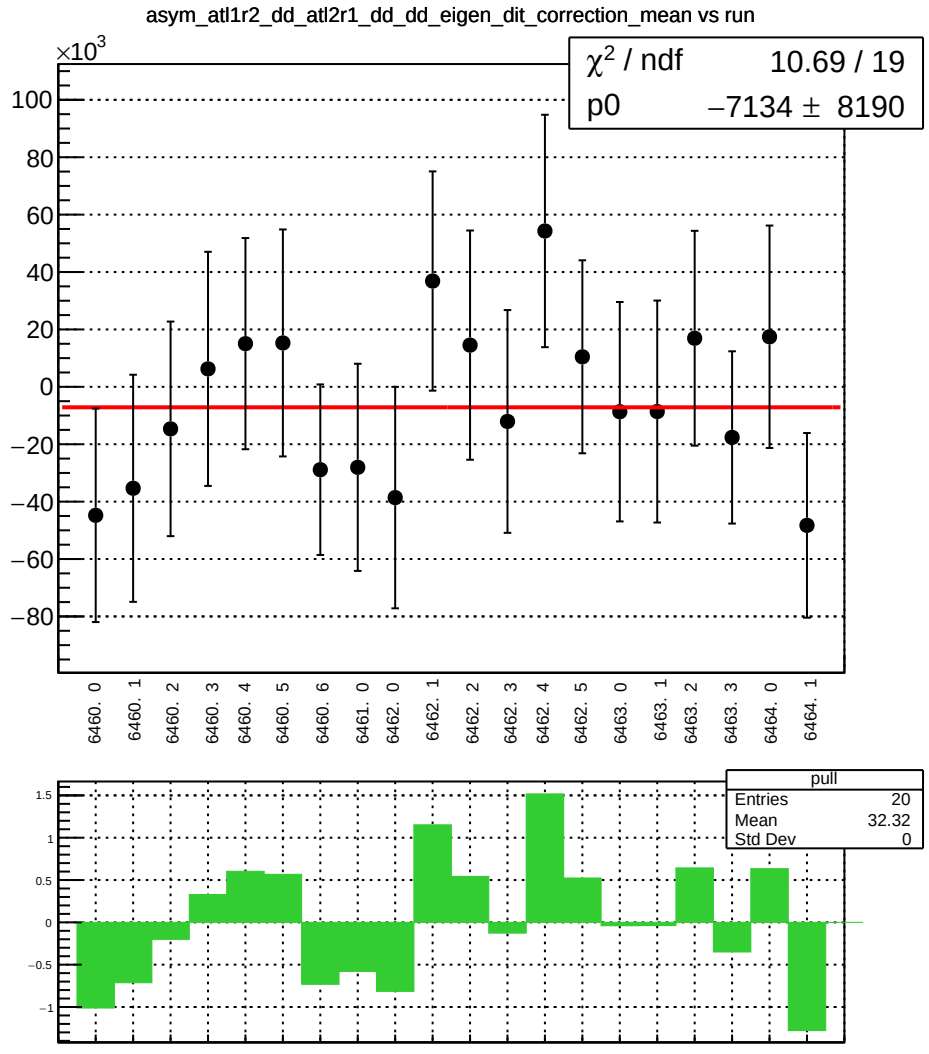

pull1D
Entries 20
Mean 0.03125
Std Dev 0.7305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

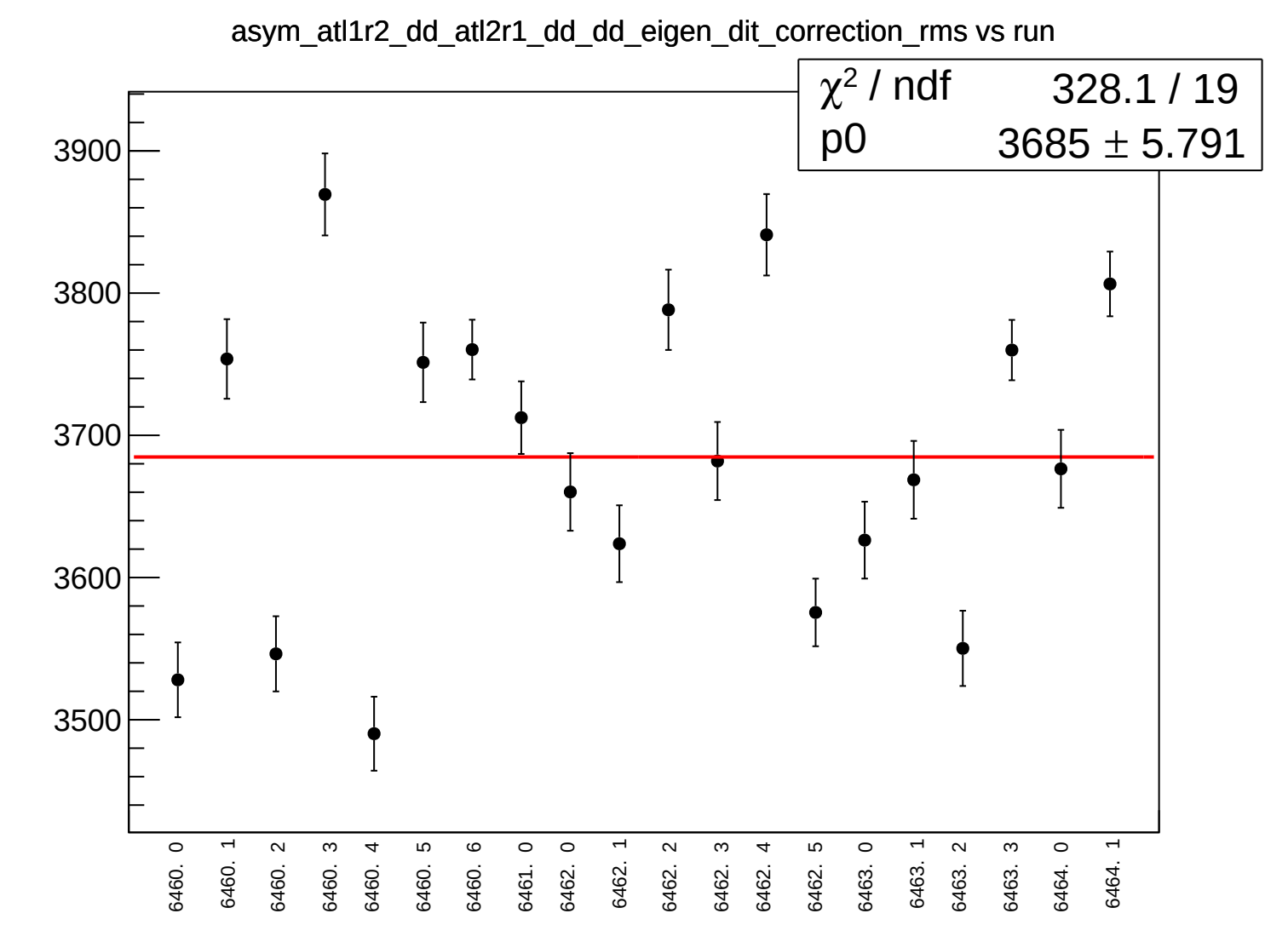

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 328.1 / 19
p0 3685 ± 5.791
3900
3800
3700
3600
3500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

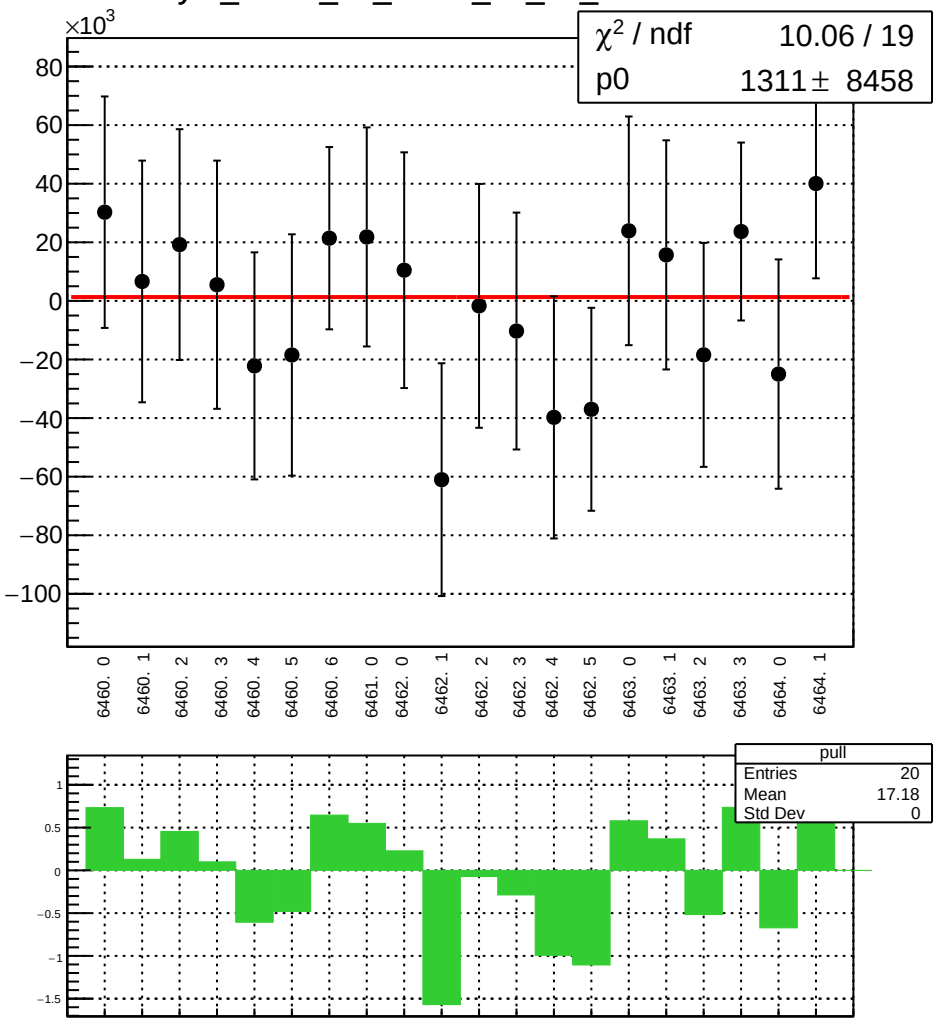

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 21.7 / 19
p0 −5688 ± 2970
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −9689
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

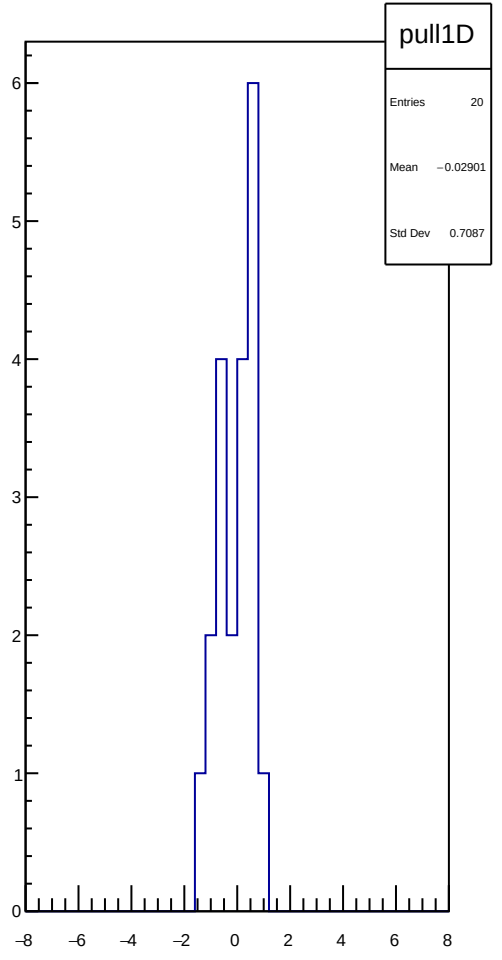

pull1D
Entries 20
Mean −0.0001298
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

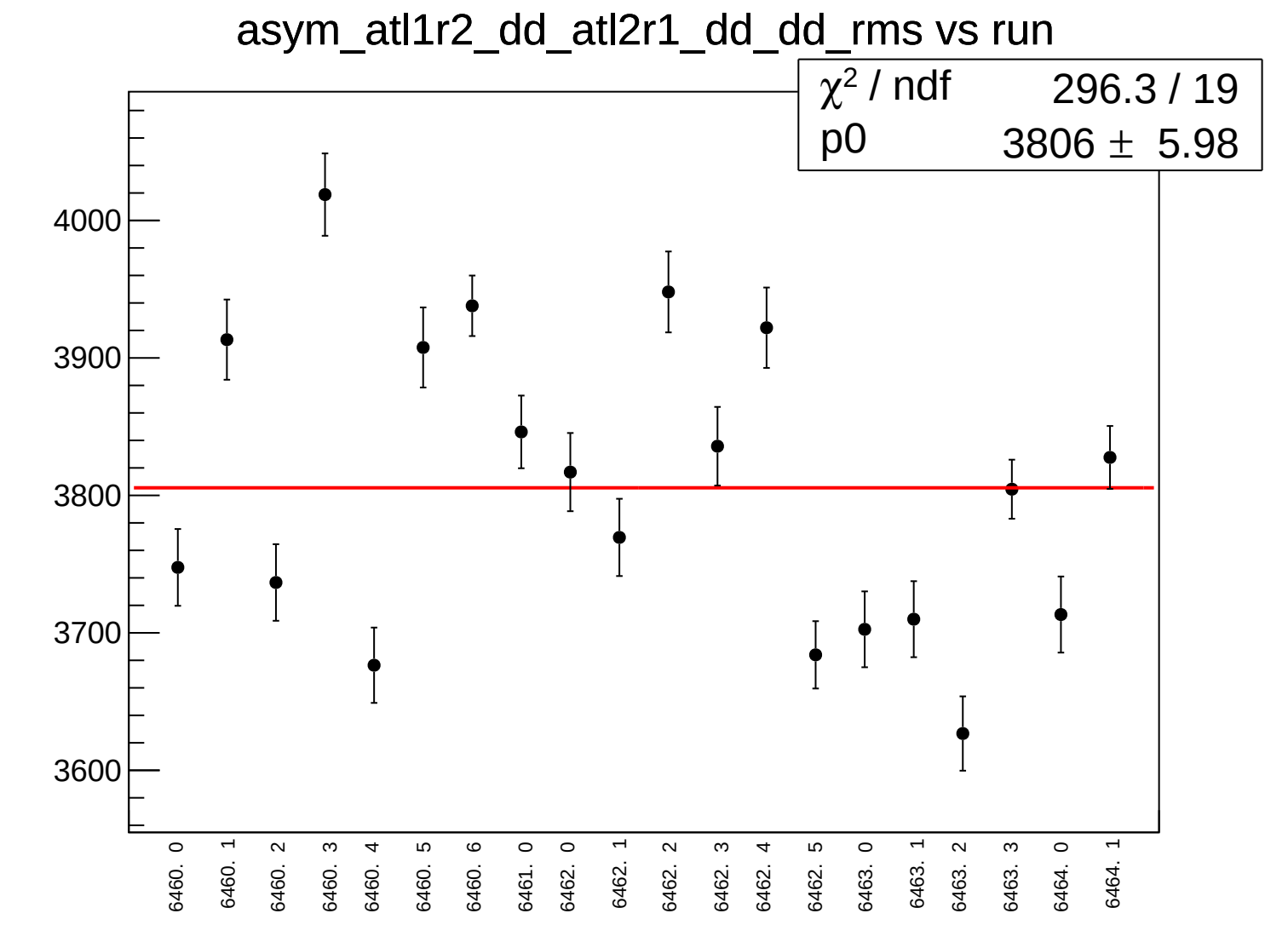

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 71.41 / 19
p0 1337 ± 2.1
1380
1370
1360
1350
1340
1330
1320
1310
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

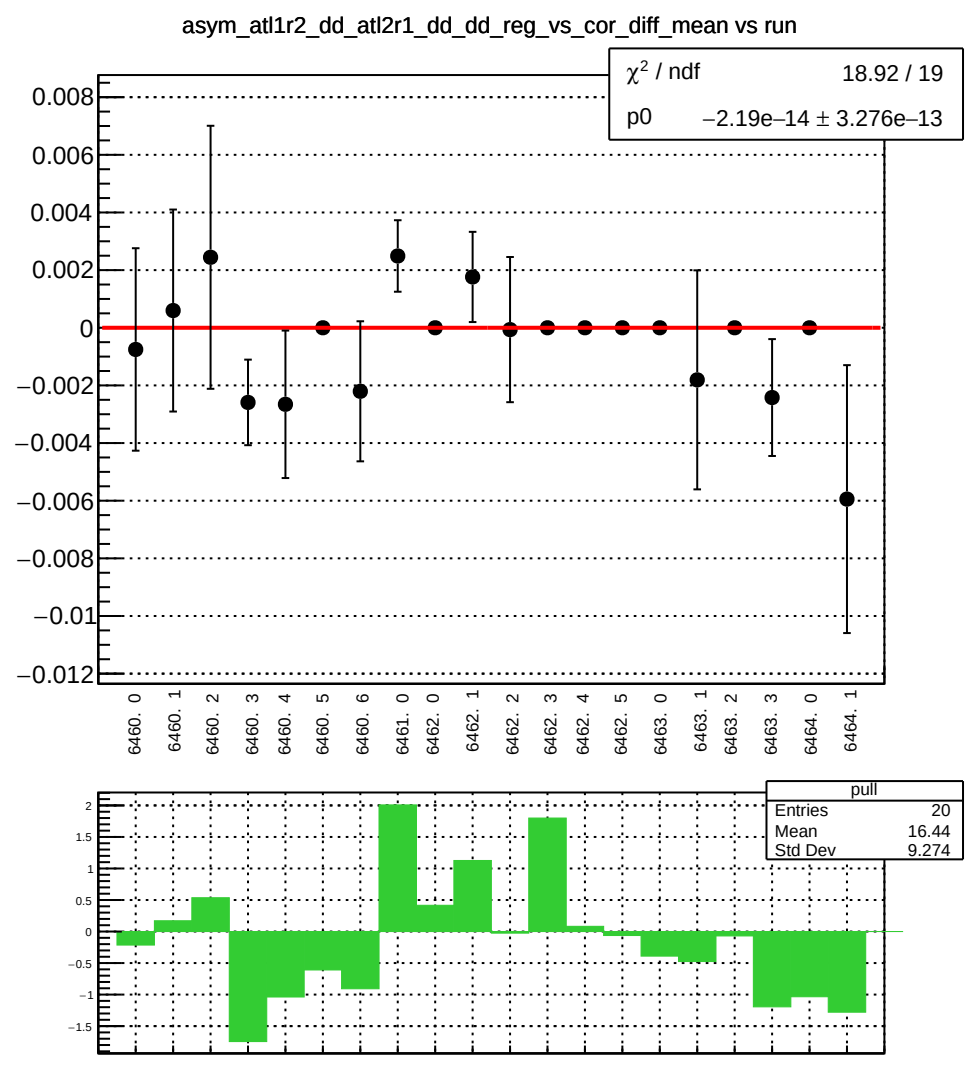

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 10.69 / 19
p0 −7134 ± 8190
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03125
Std Dev 0.7305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

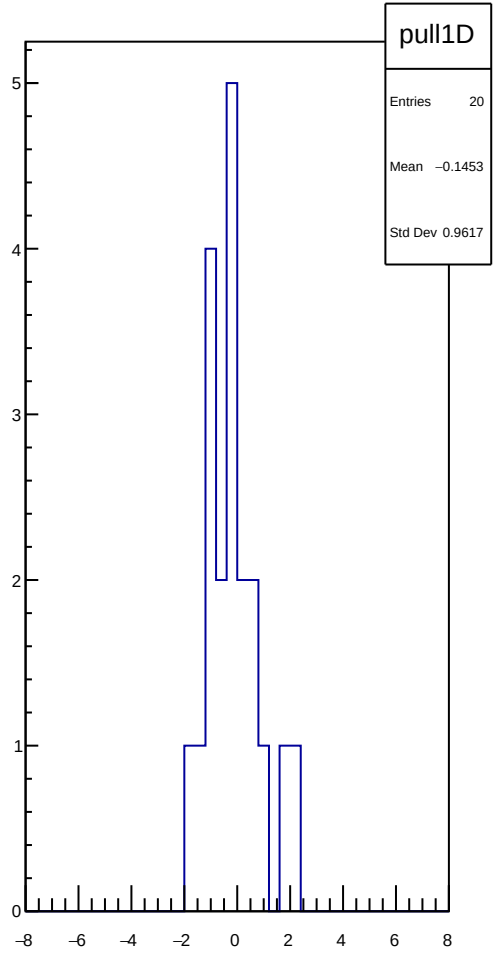

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 328.1 / 19
p0 3685 ± 5.791
3900
3800
3700
3600
3500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

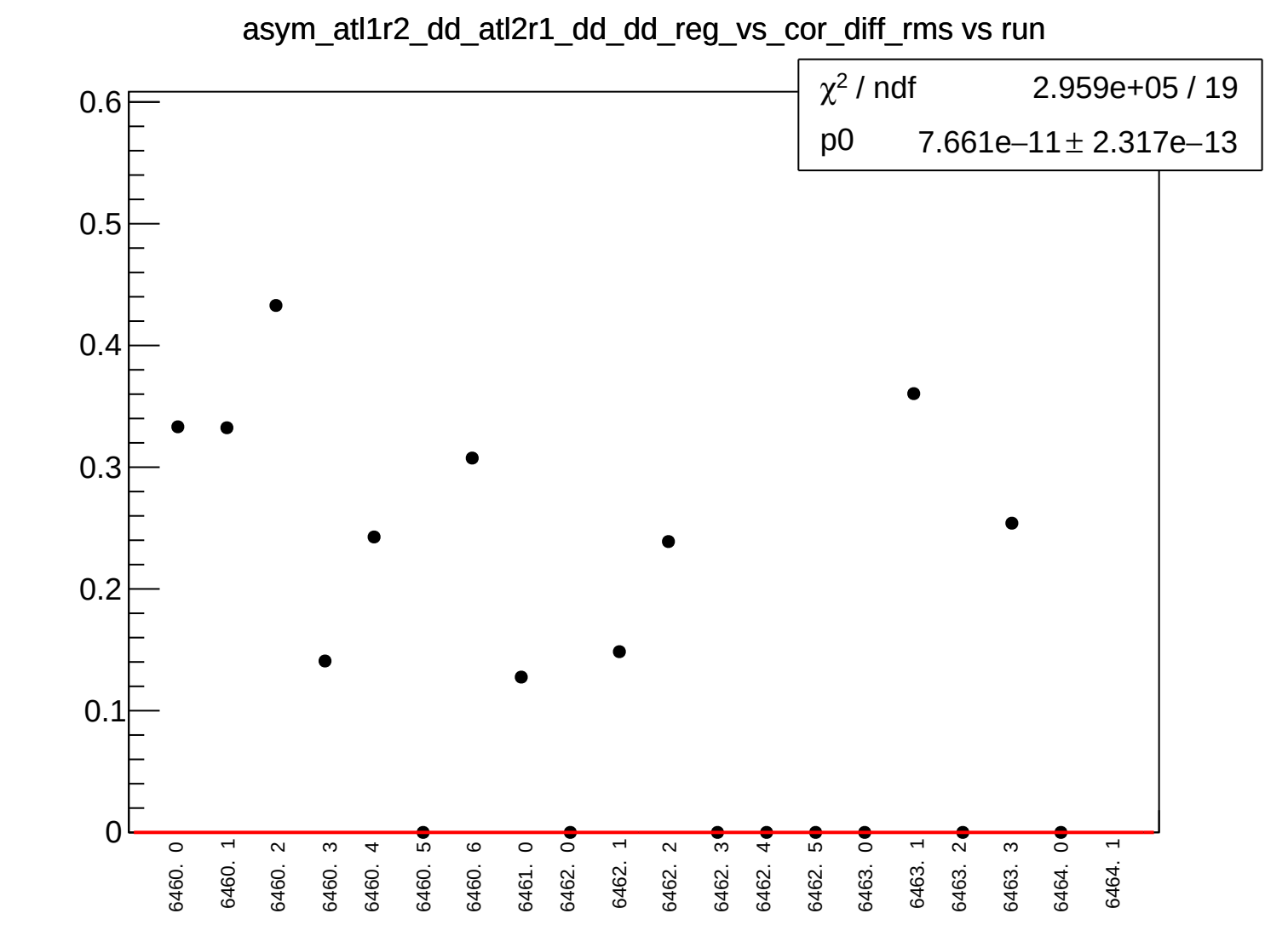

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 10.06 / 19
p0 1311 ± 8458
80
60
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 17.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean −0.02901
Std Dev 0.7087
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

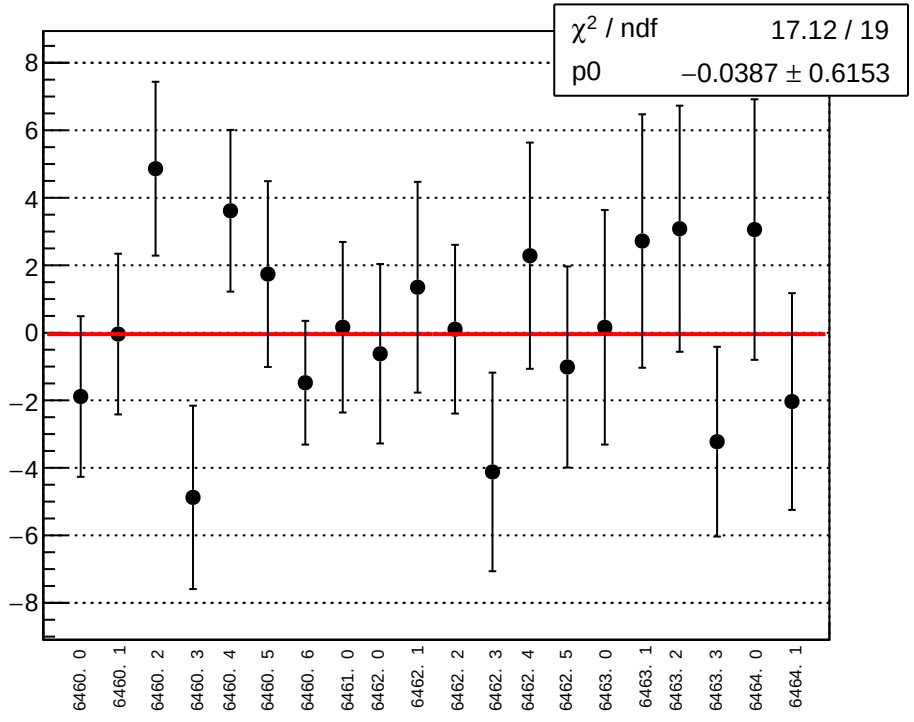

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 296.3 / 19
p0 3806 ± 5.98
4000
3900
3800
3700
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

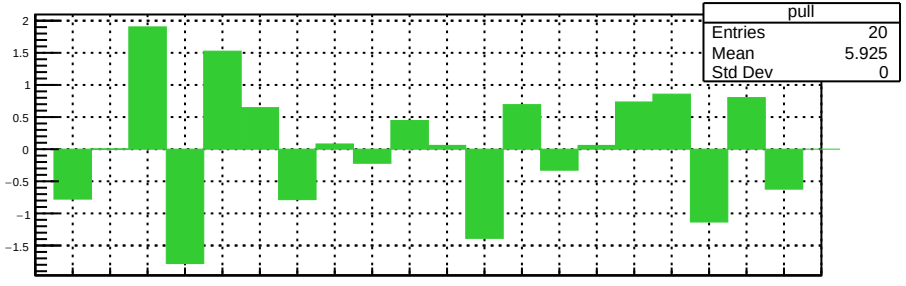

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 18.92 / 19
p0 −2.19e−14 ± 3.276e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.44
Std Dev 9.274
2
1.5
1
0.5
0
−0.5
−1
−1.5

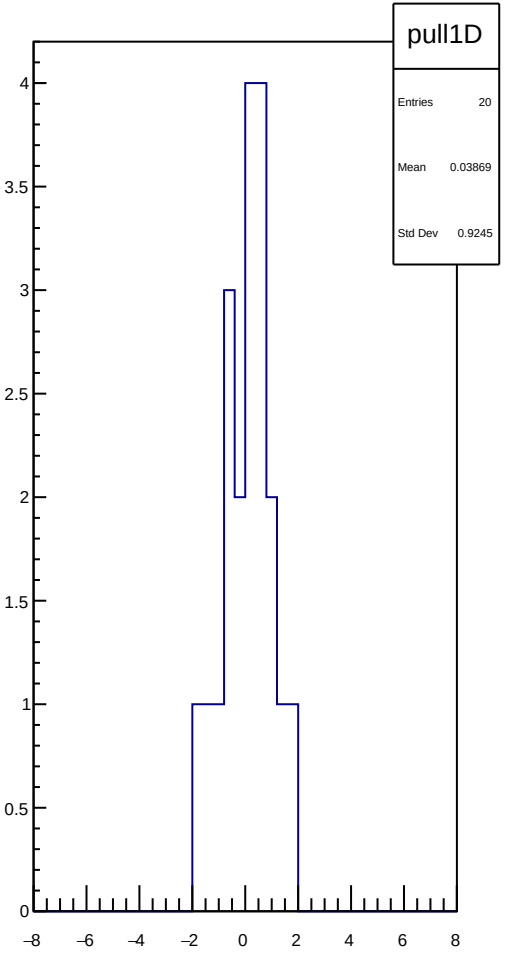

pull1D
Entries 20
Mean −0.1453
Std Dev 0.9617
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

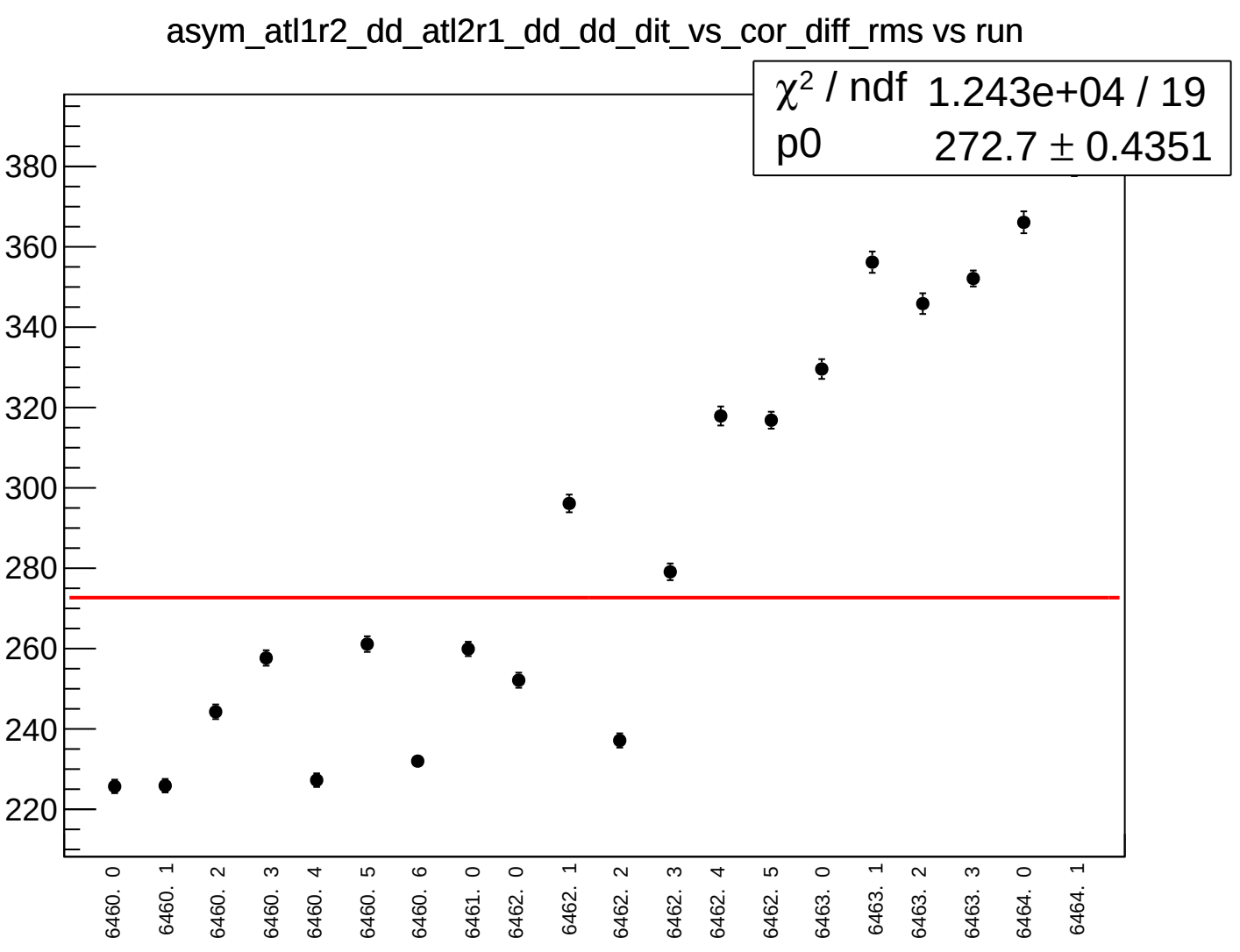

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.959e+05 / 19
p0 7.661e−11 ± 2.317e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

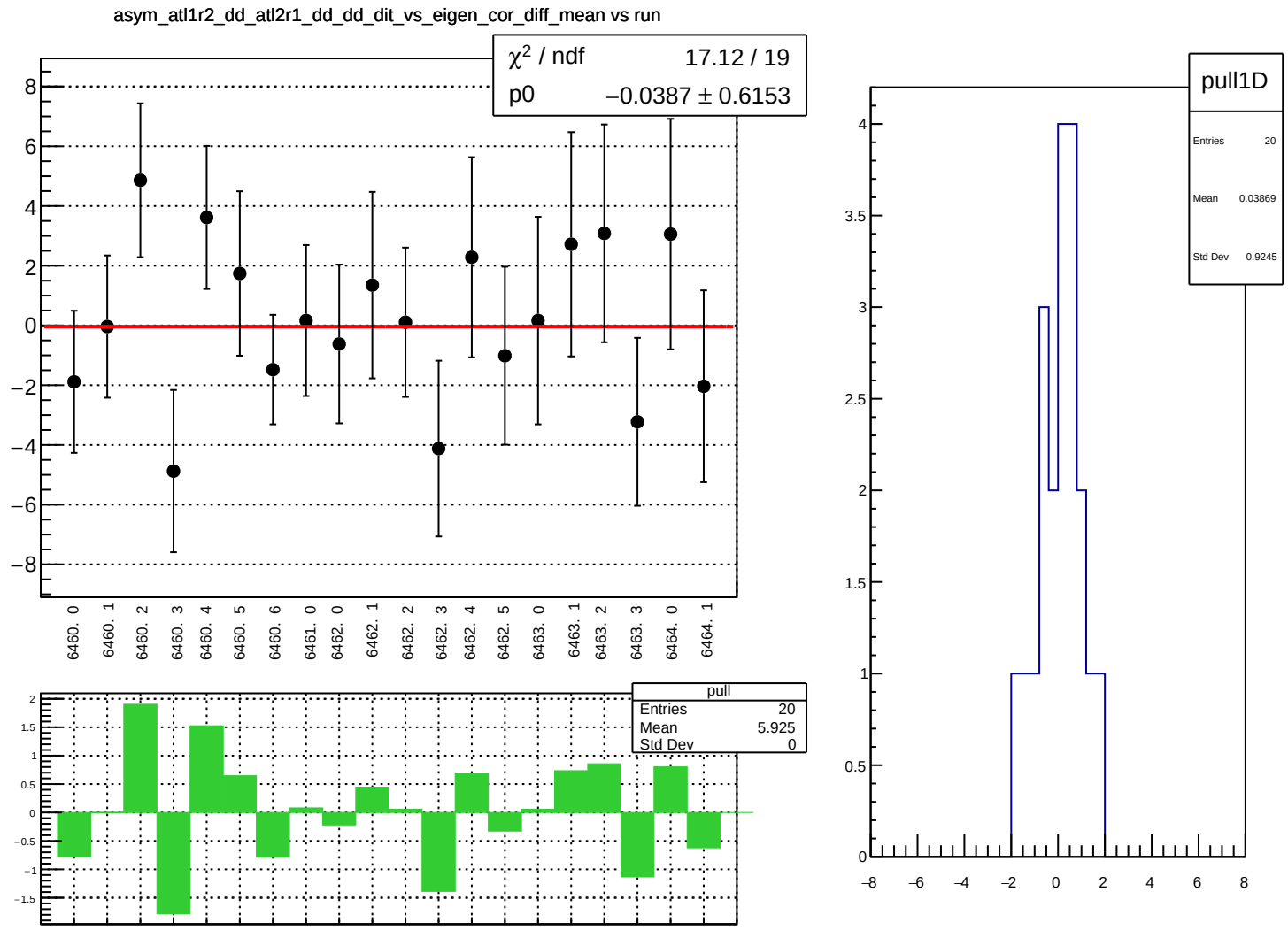
asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run

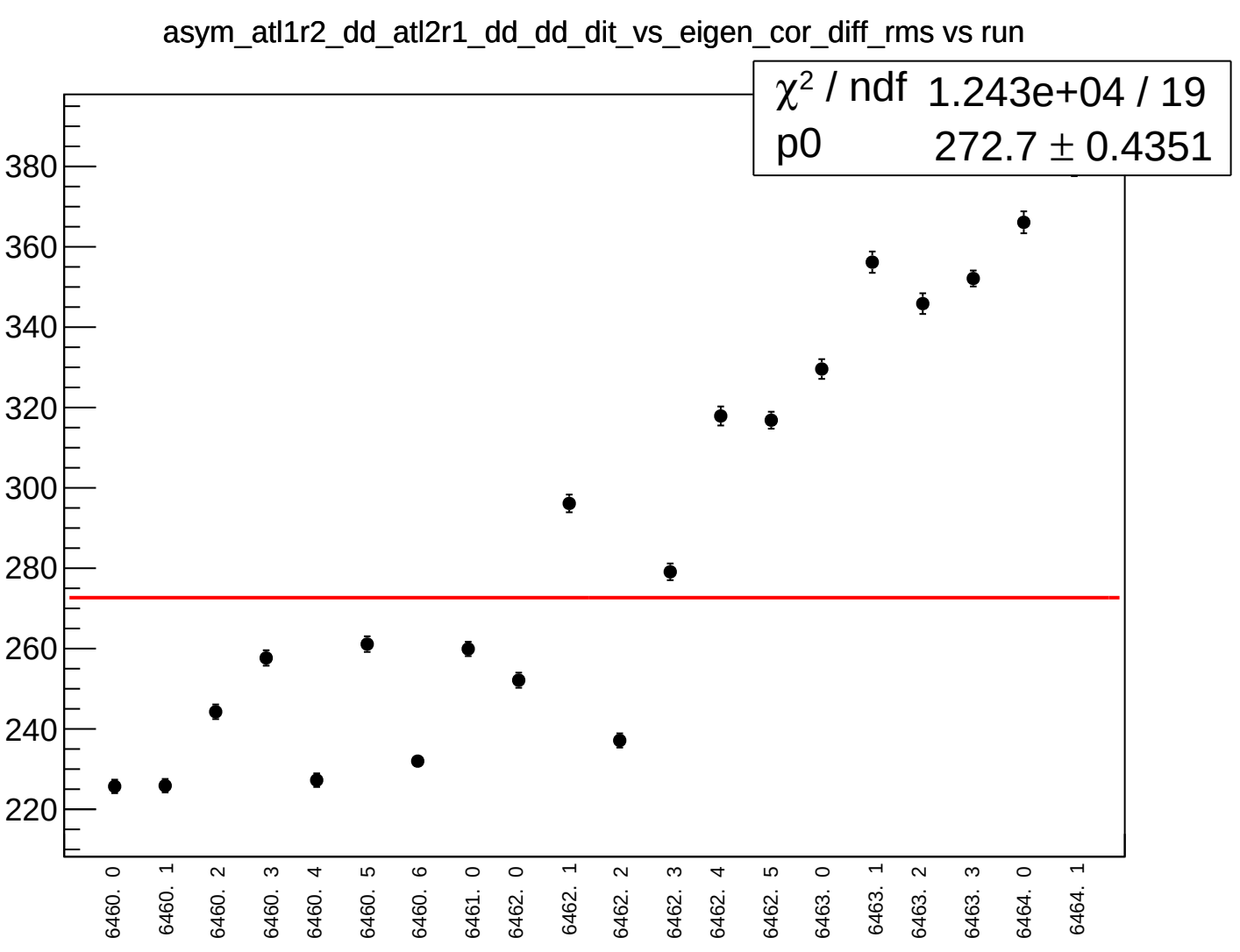


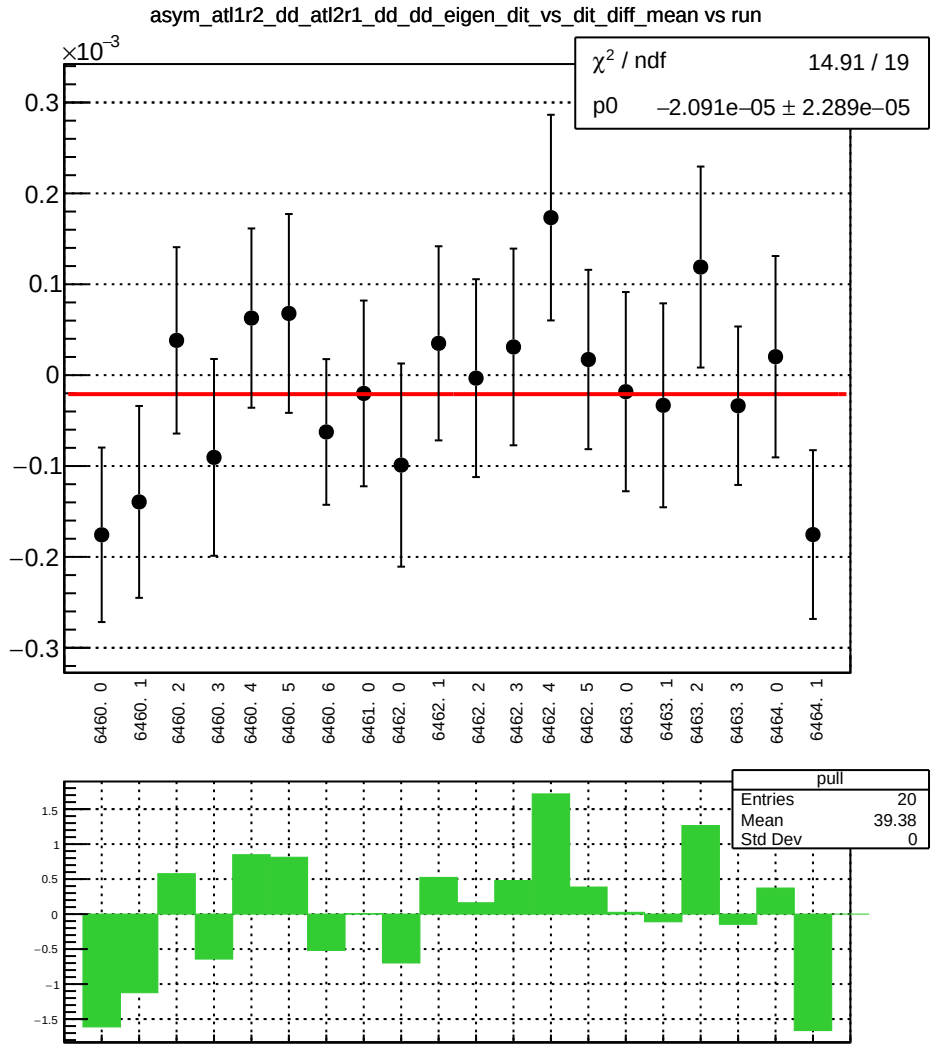


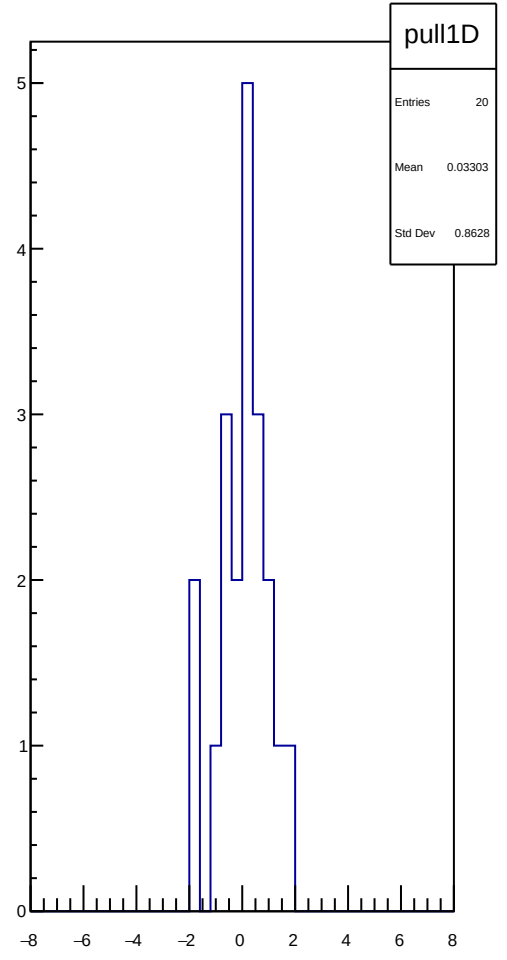


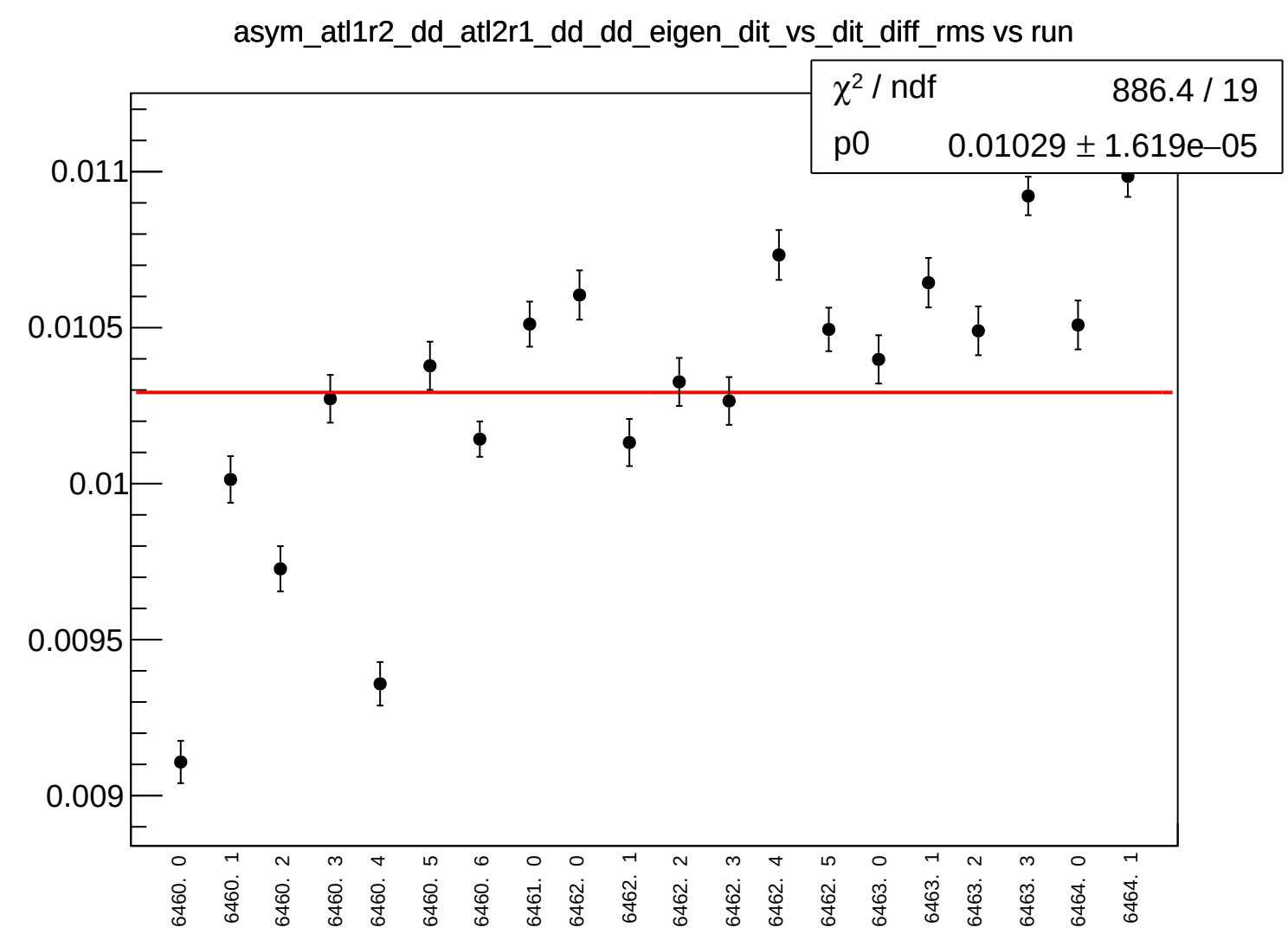

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

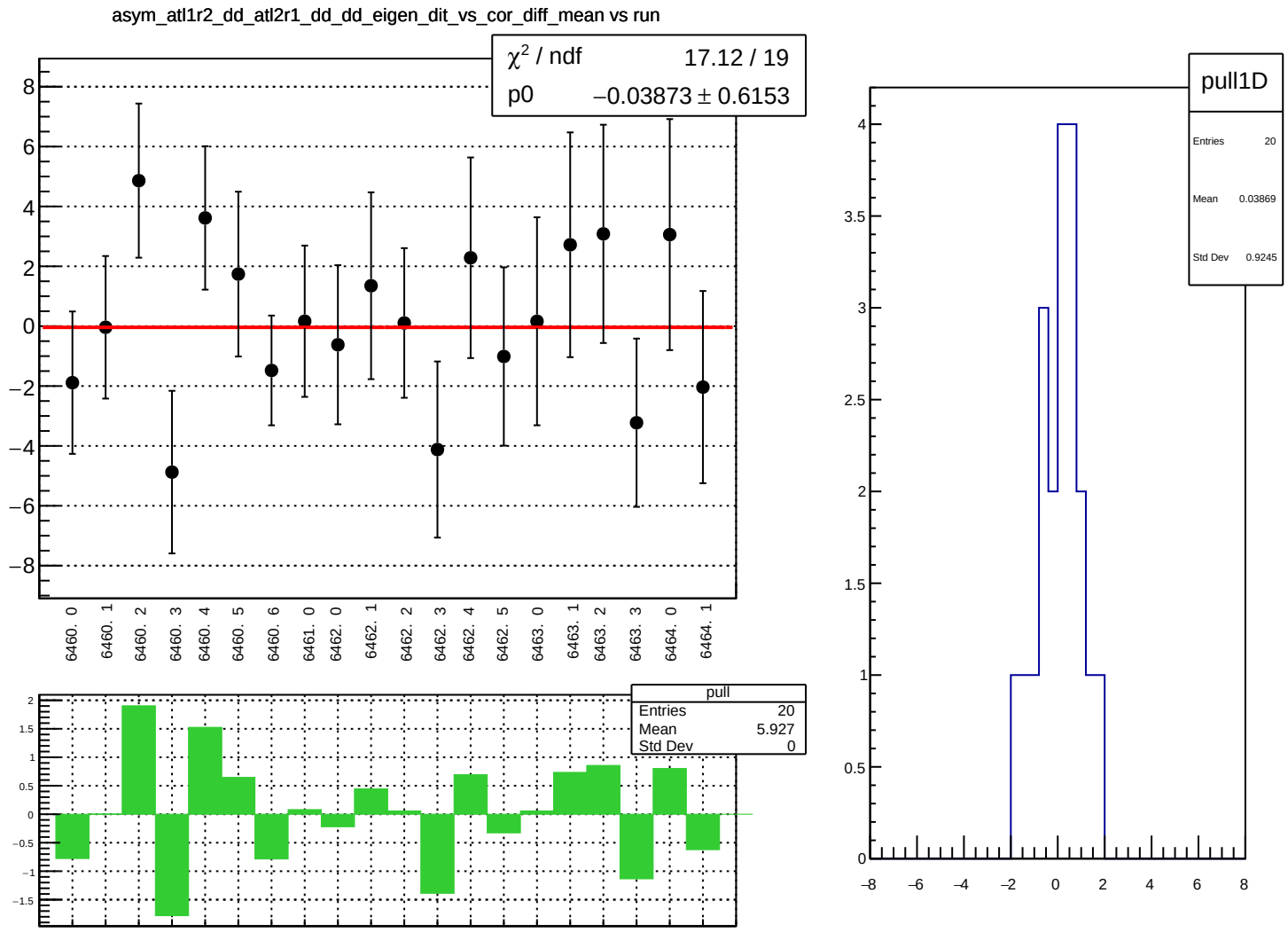

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.0387 ± 0.6153
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.925
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

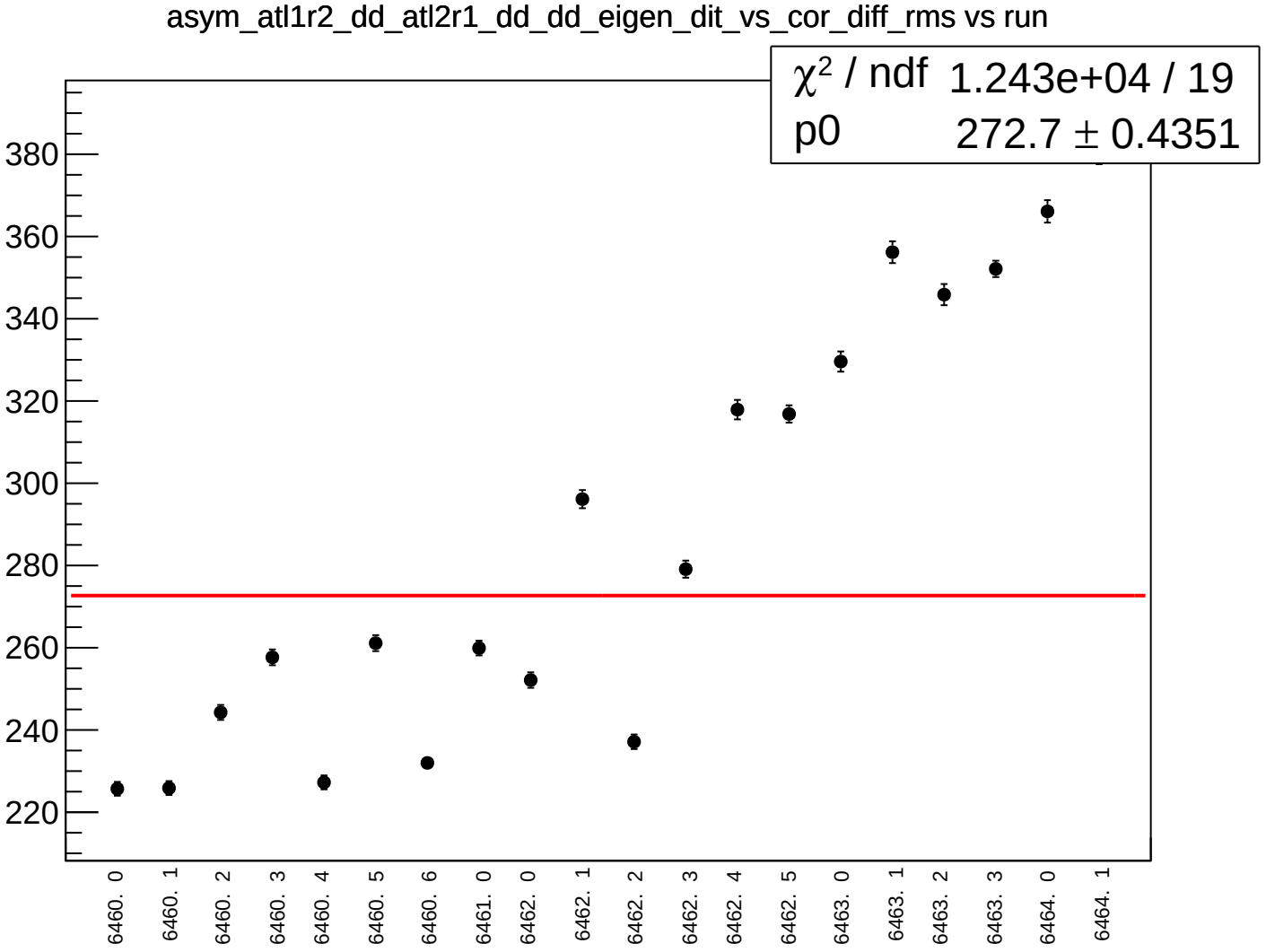

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

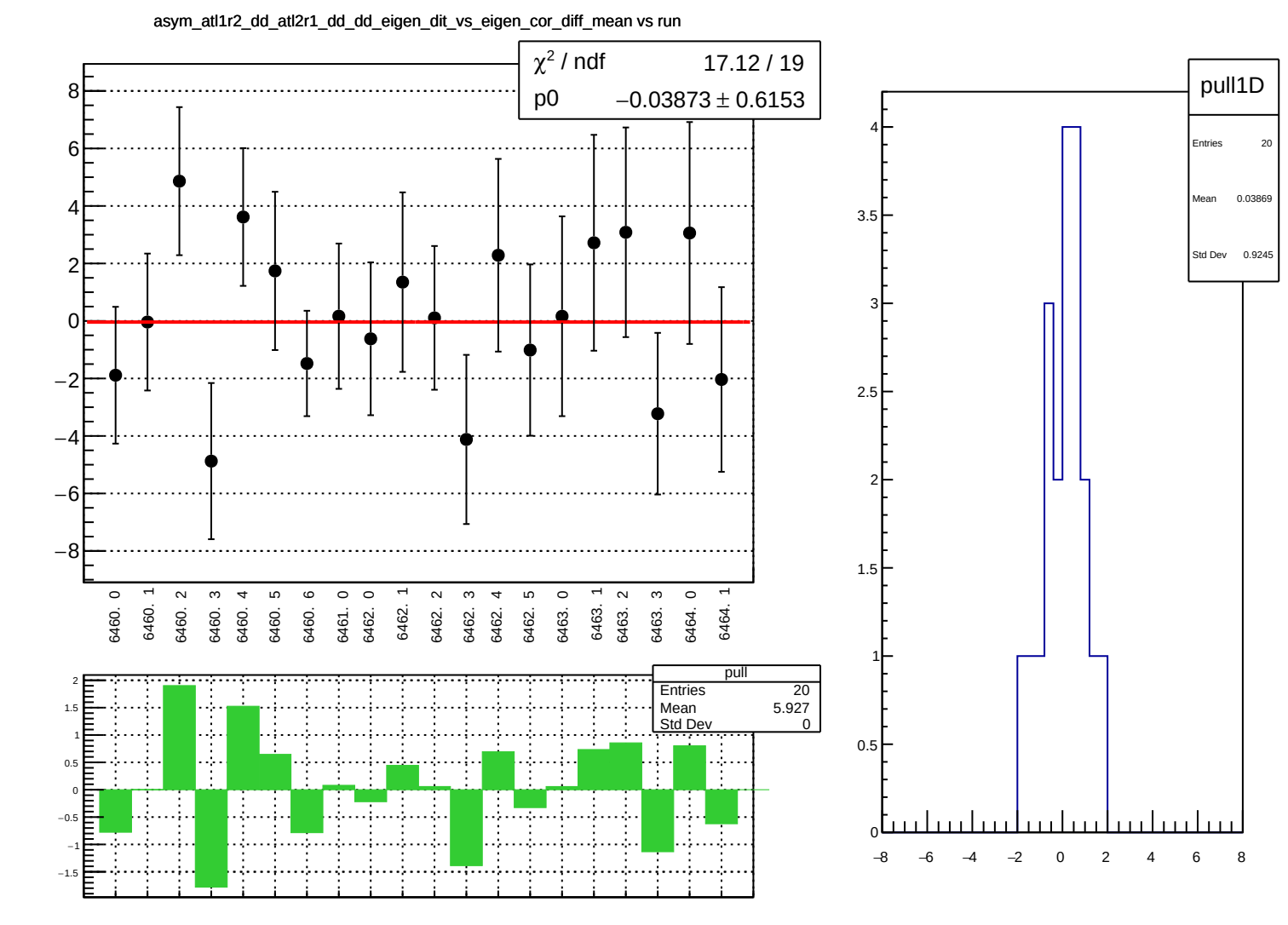

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 14.91 / 19
p0 −2.091e−05 ± 2.289e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

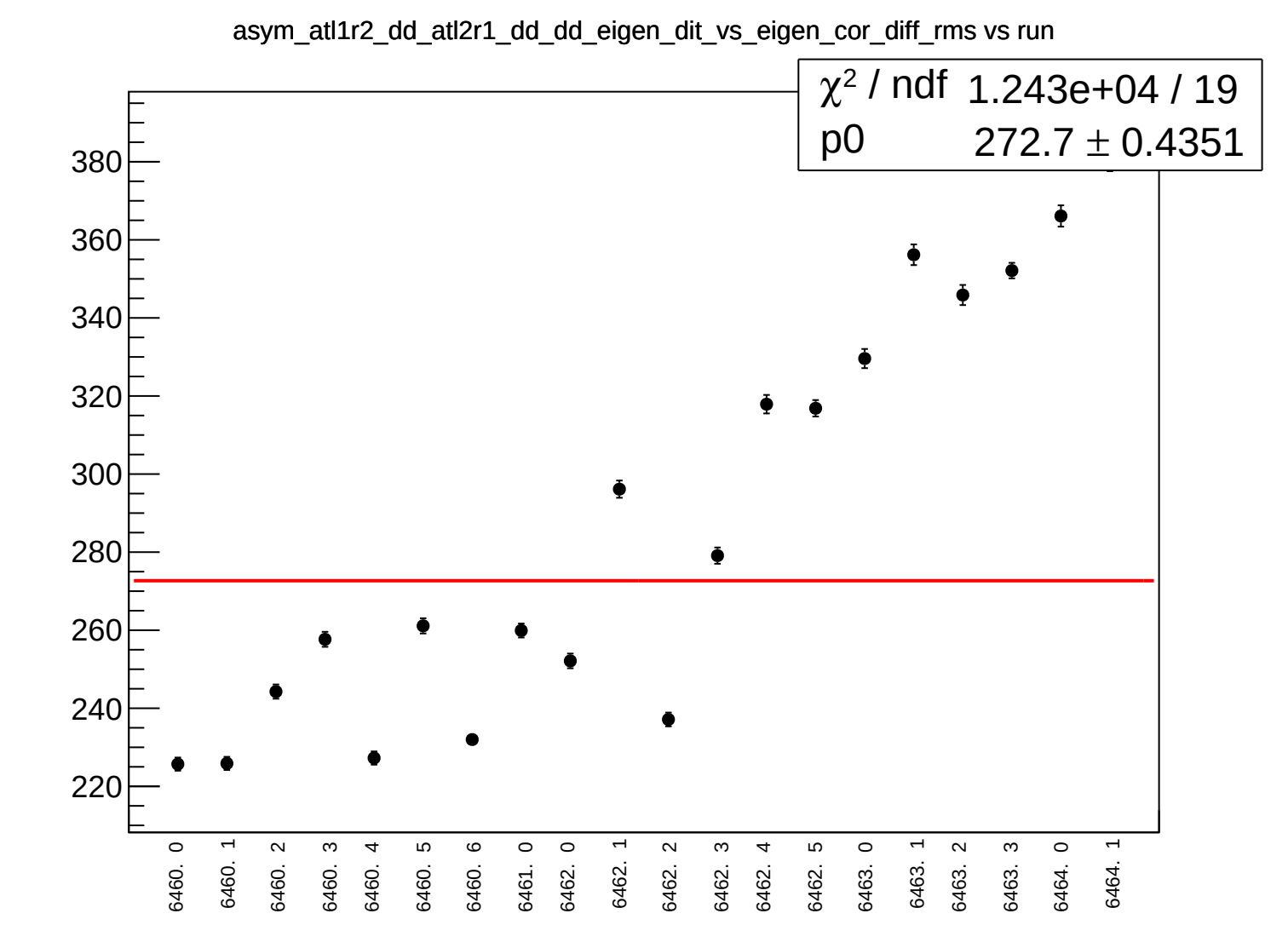

pull1D
Entries 20
Mean 0.03303
Std Dev 0.8628
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

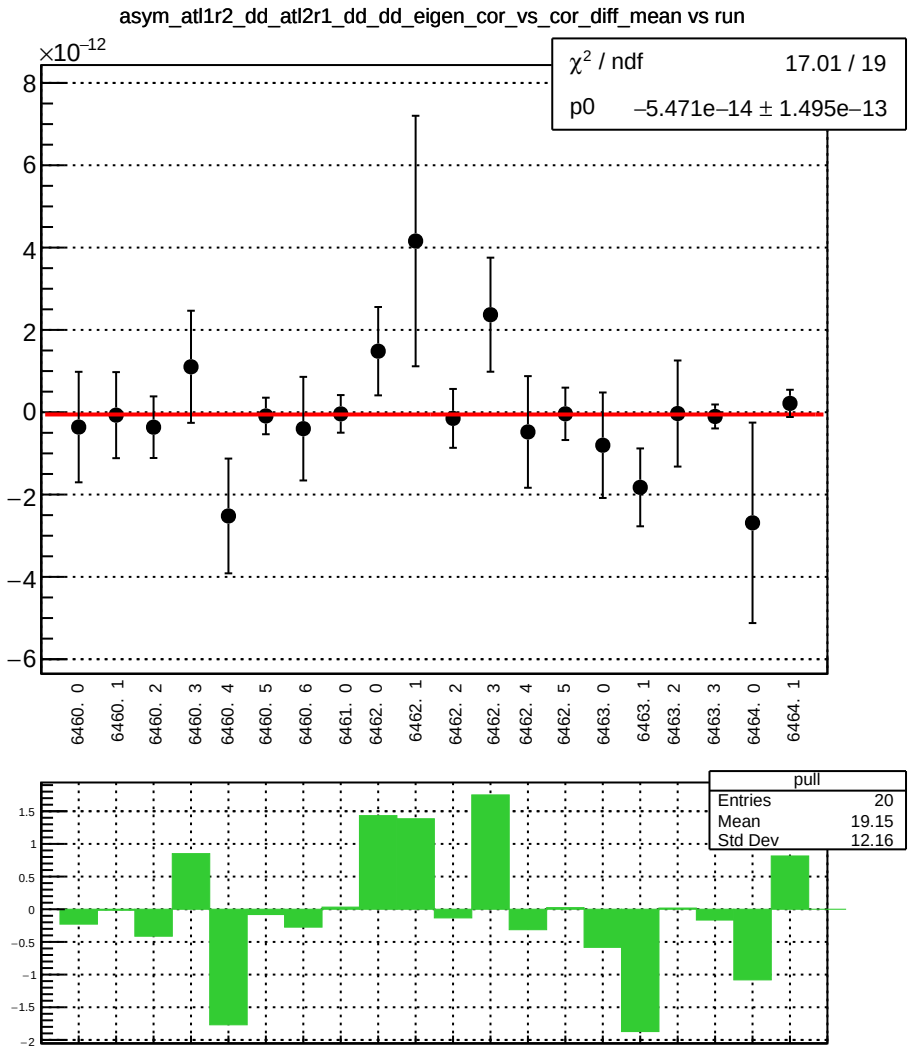

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 886.4 / 19
p0 0.01029 ± 1.619e−05
0.011
0.0105
0.01
0.0095
0.009
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

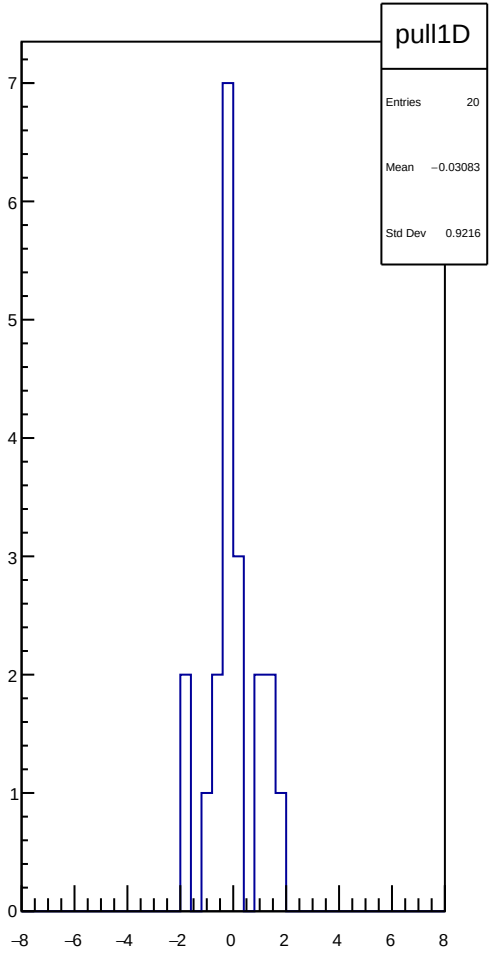

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.03873 ± 0.6153
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.927
Std Dev 0
pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245

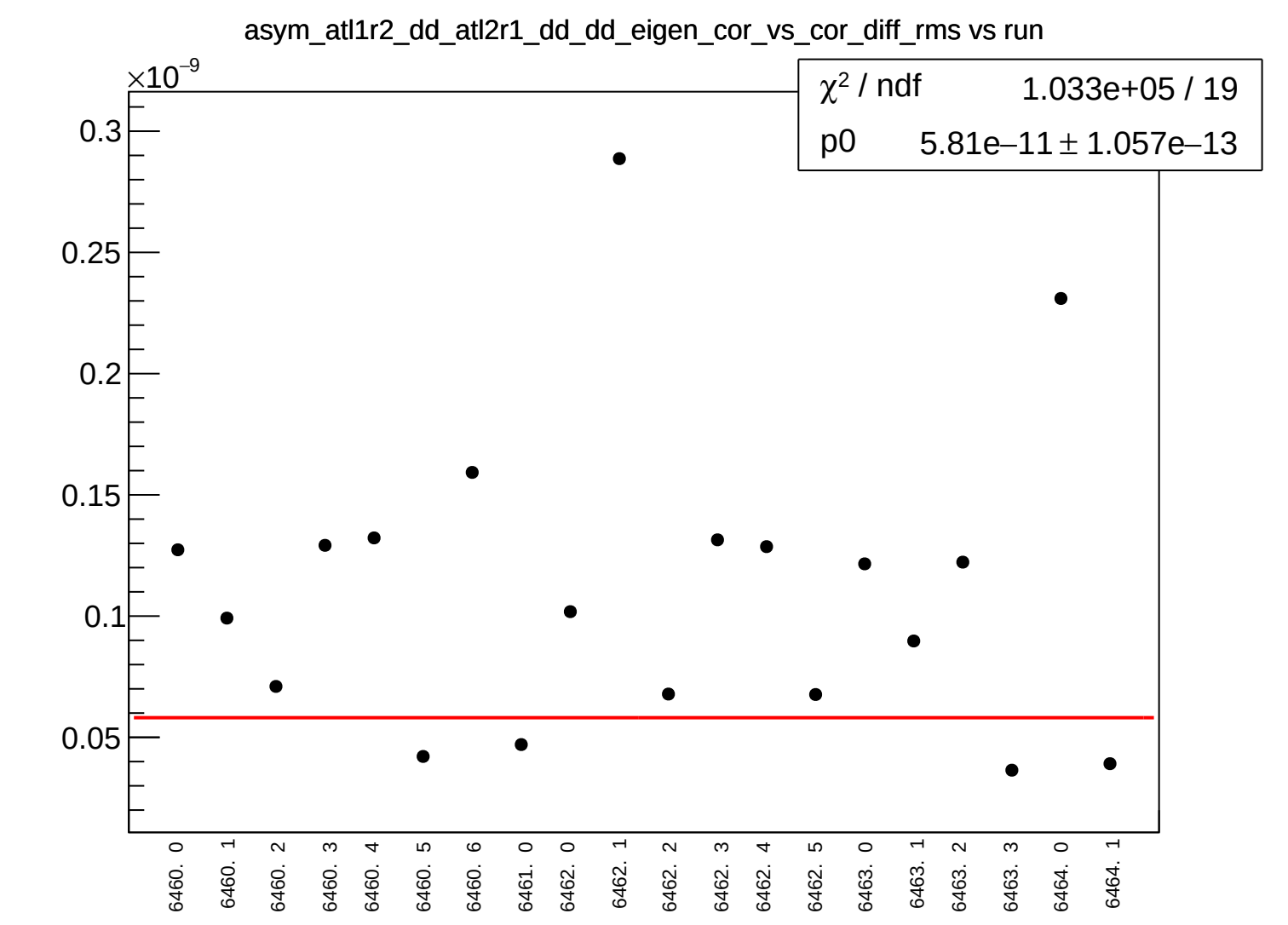

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

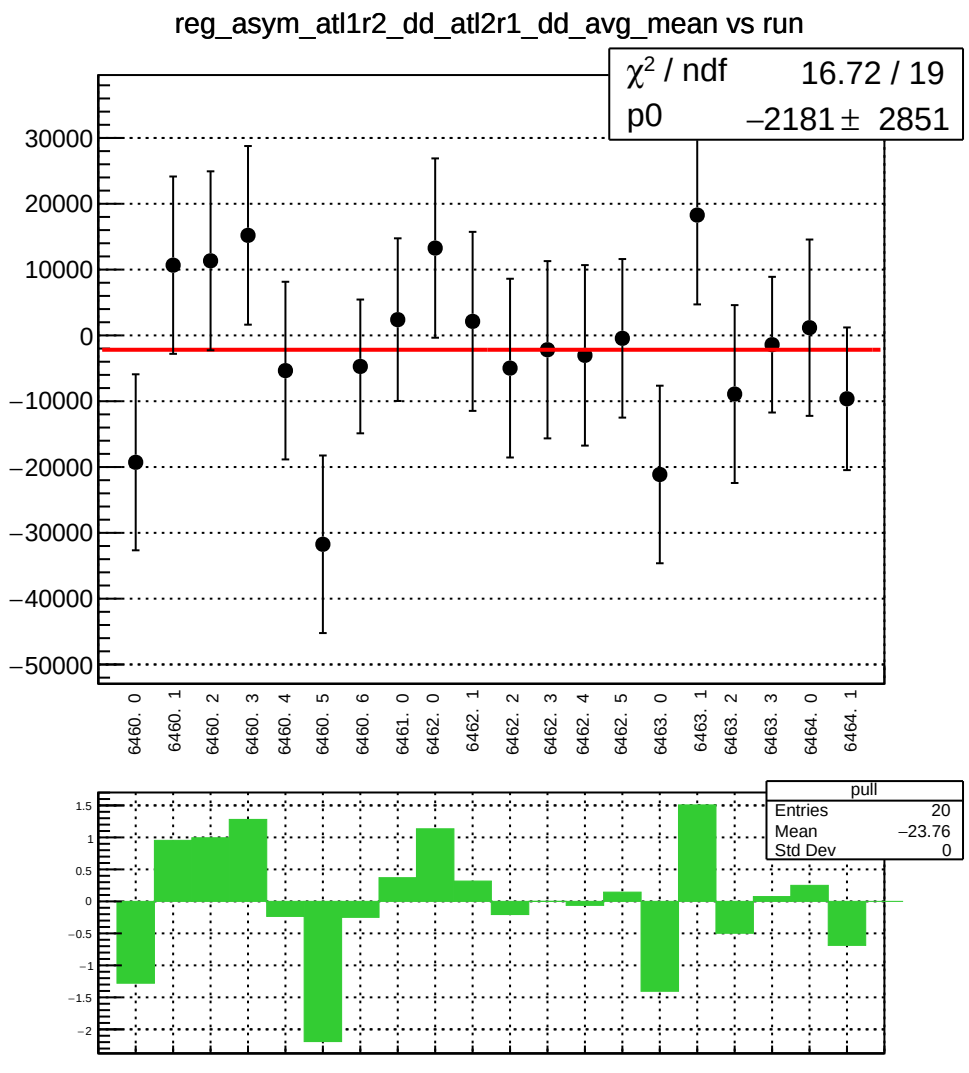

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.12 / 19
p0 −0.03873 ± 0.6153
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.927
Std Dev 0
pull1D
Entries 20
Mean 0.03869
Std Dev 0.9245

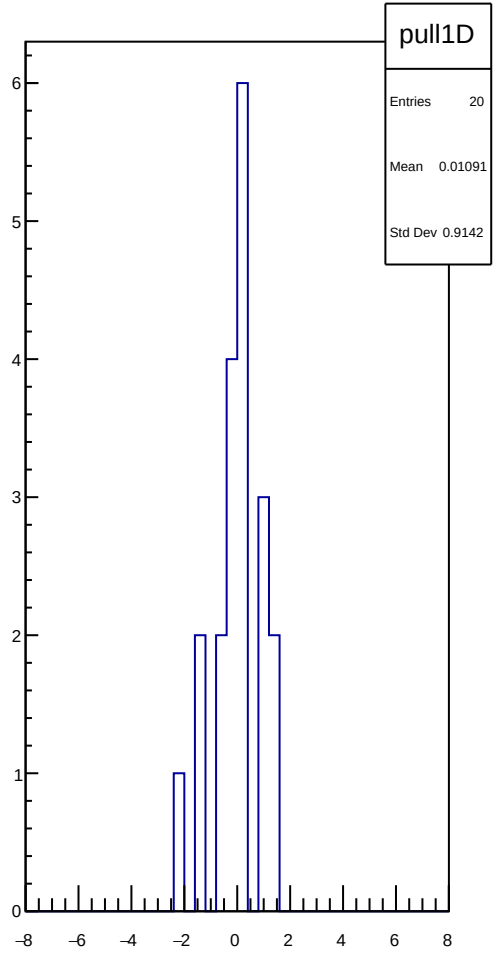

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.243e+04 / 19
p0 272.7 ± 0.4351
380
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

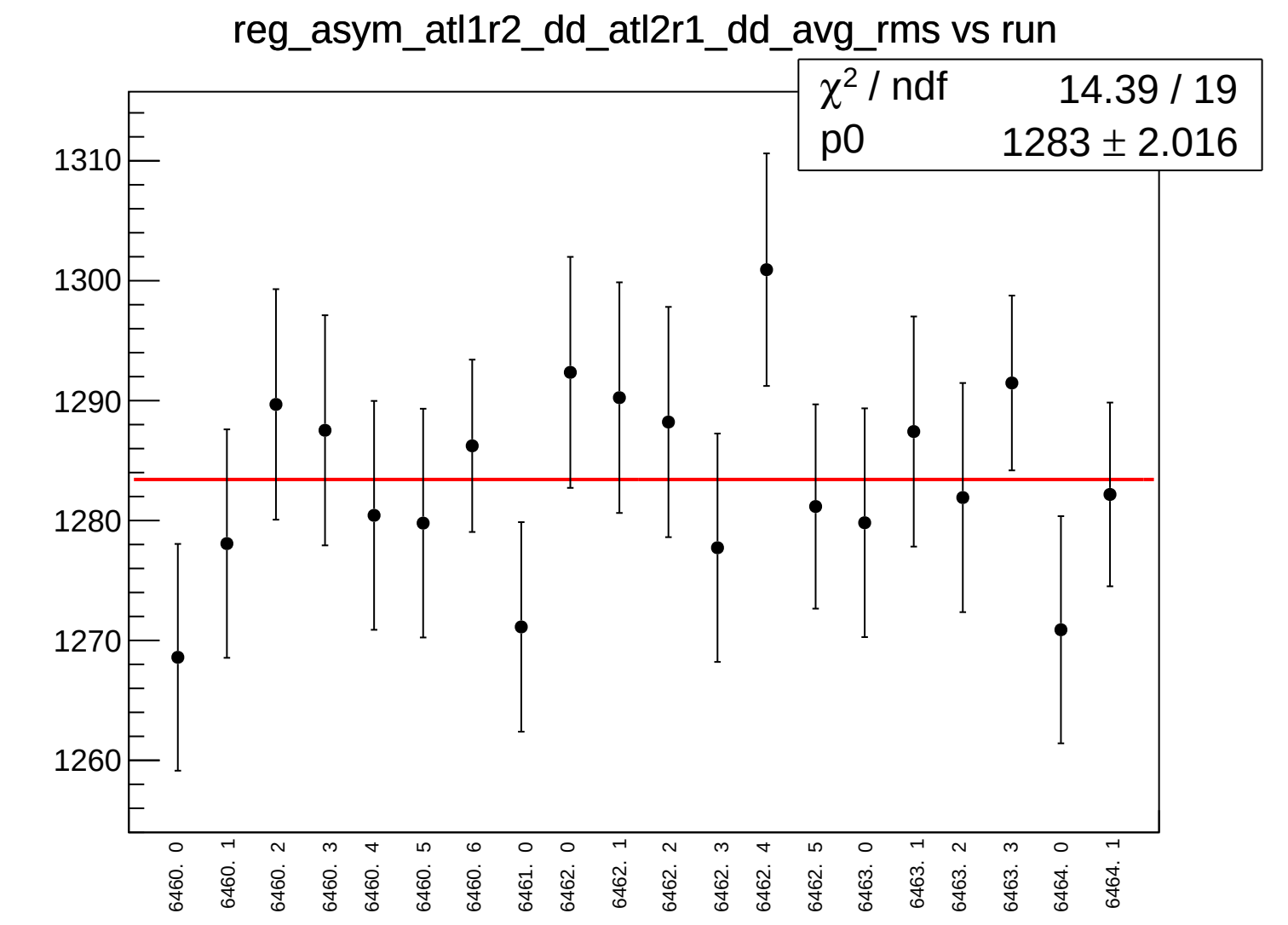

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 17.01 / 19
p0 −5.471e−14 ± 1.495e−13
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.15
Std Dev 12.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

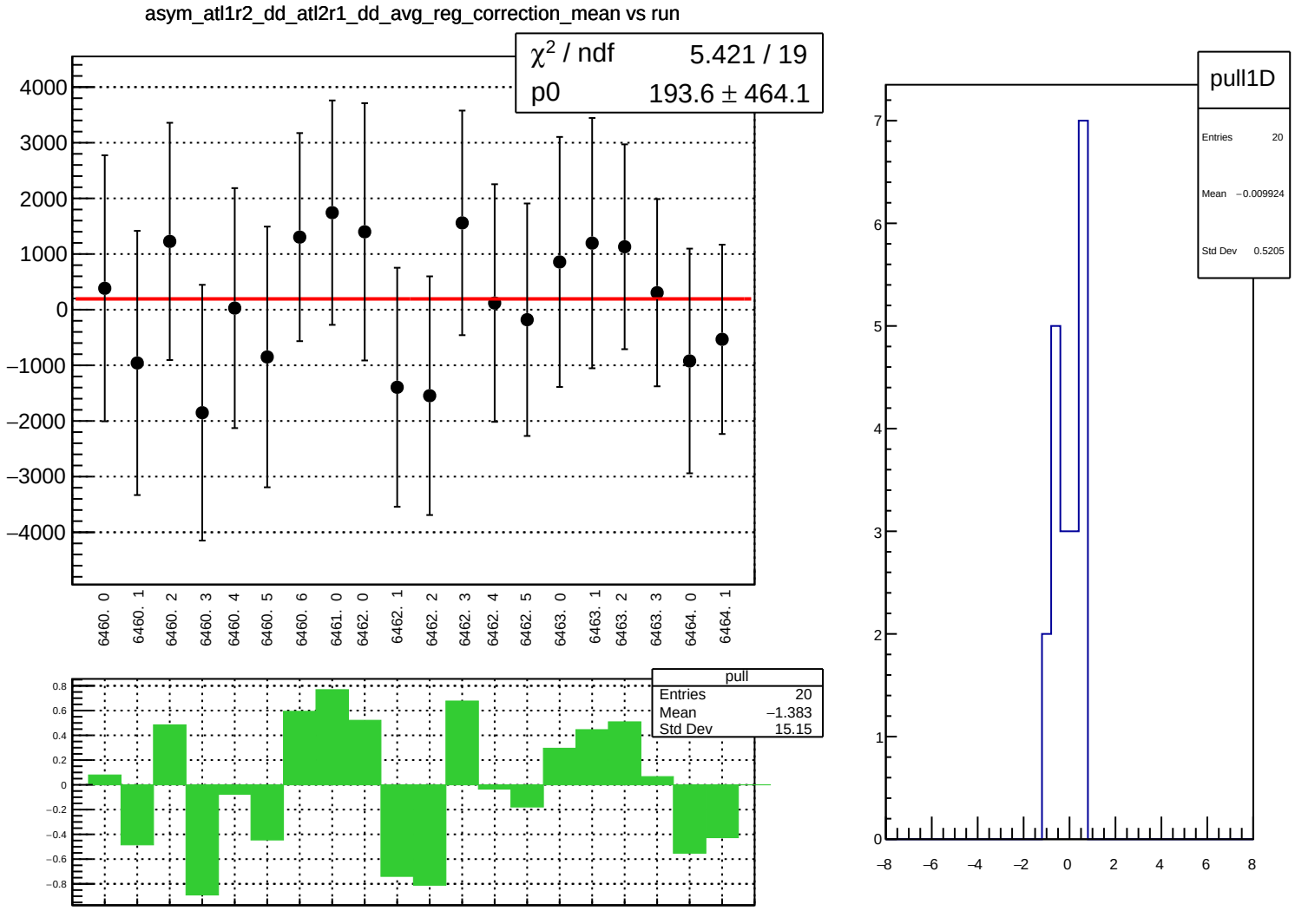

pull1D
Entries 20
Mean −0.03083
Std Dev 0.9216
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

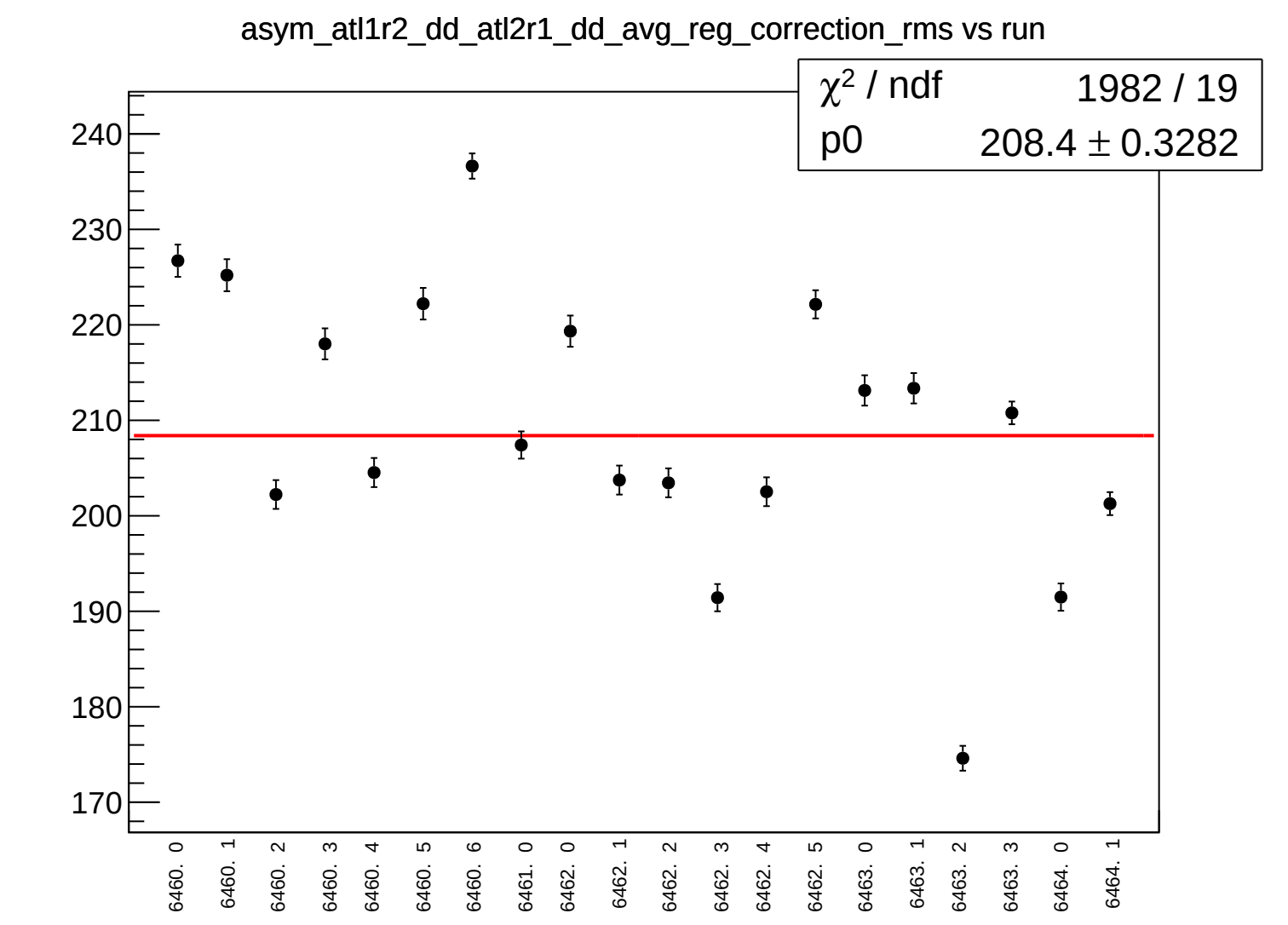

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.033e+05 / 19
p0 5.81e−11 ± 1.057e−13
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

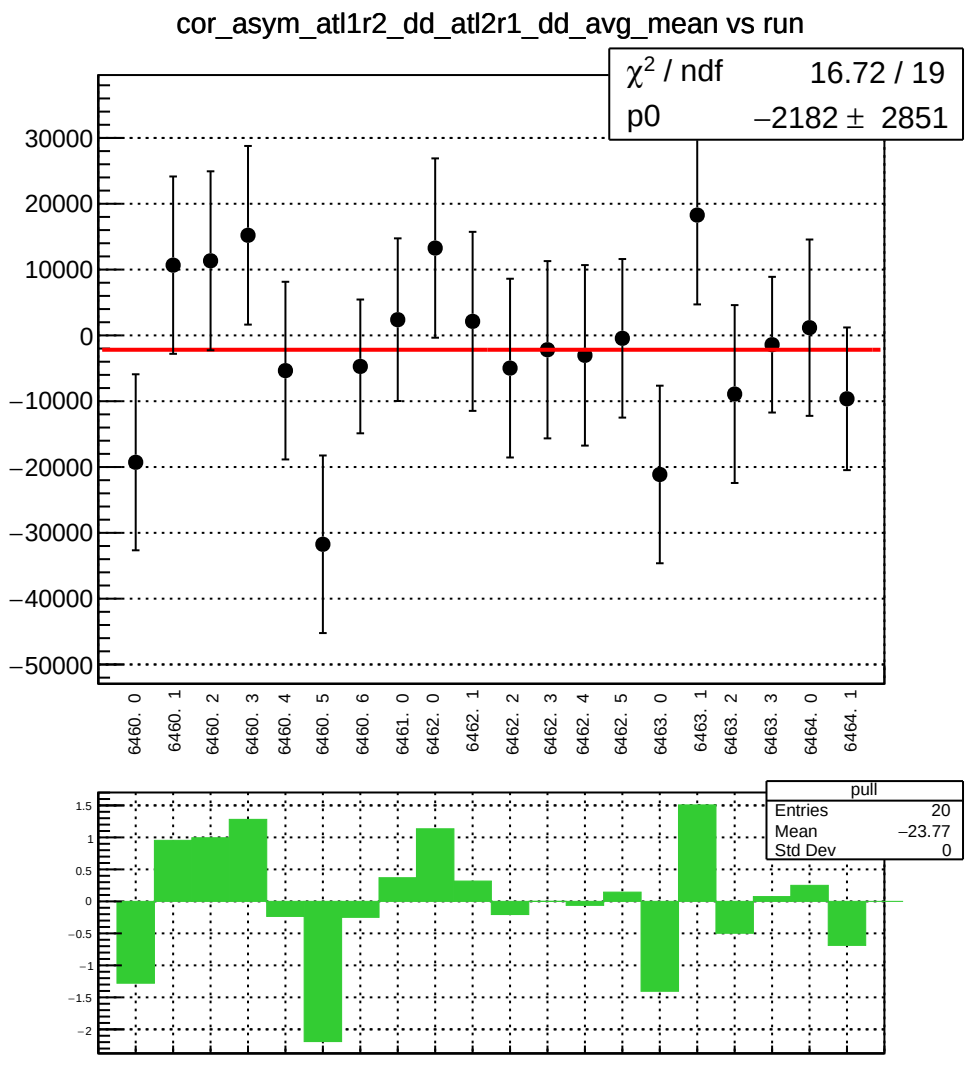

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 16.72 / 19
p0 −2181 ± 2851
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

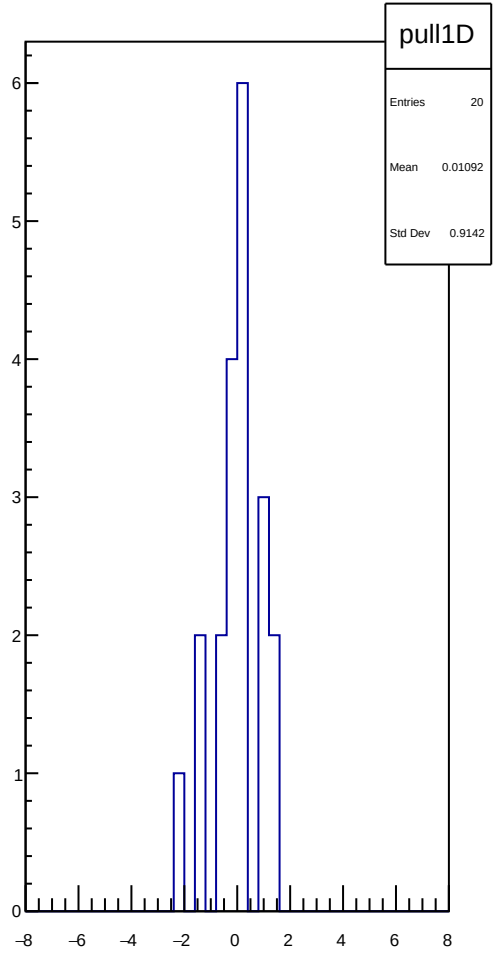

pull1D
Entries 20
Mean 0.01091
Std Dev 0.9142
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

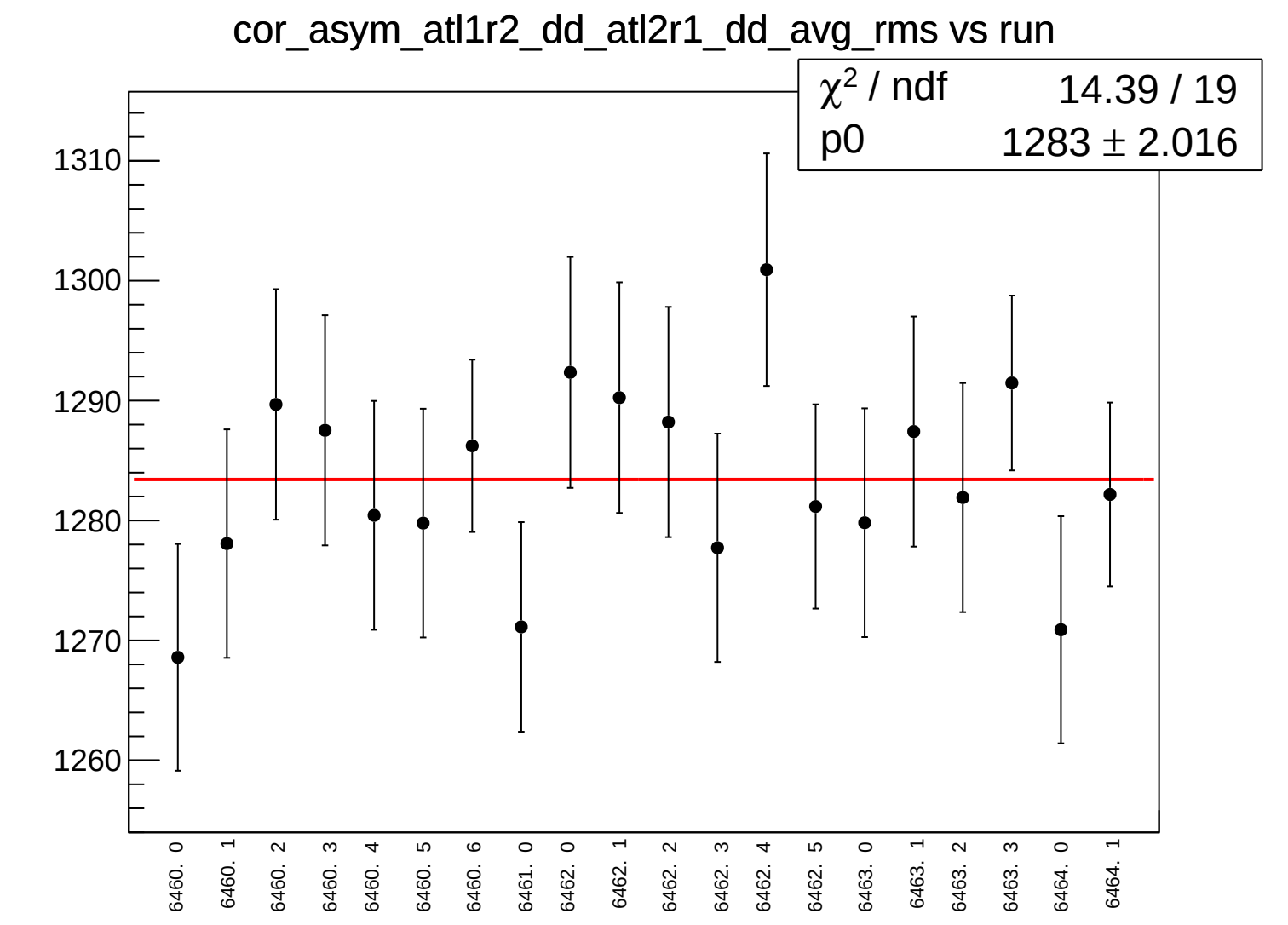

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 14.39 / 19
p0 1283 ± 2.016
1310
1300
1290
1280
1270
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

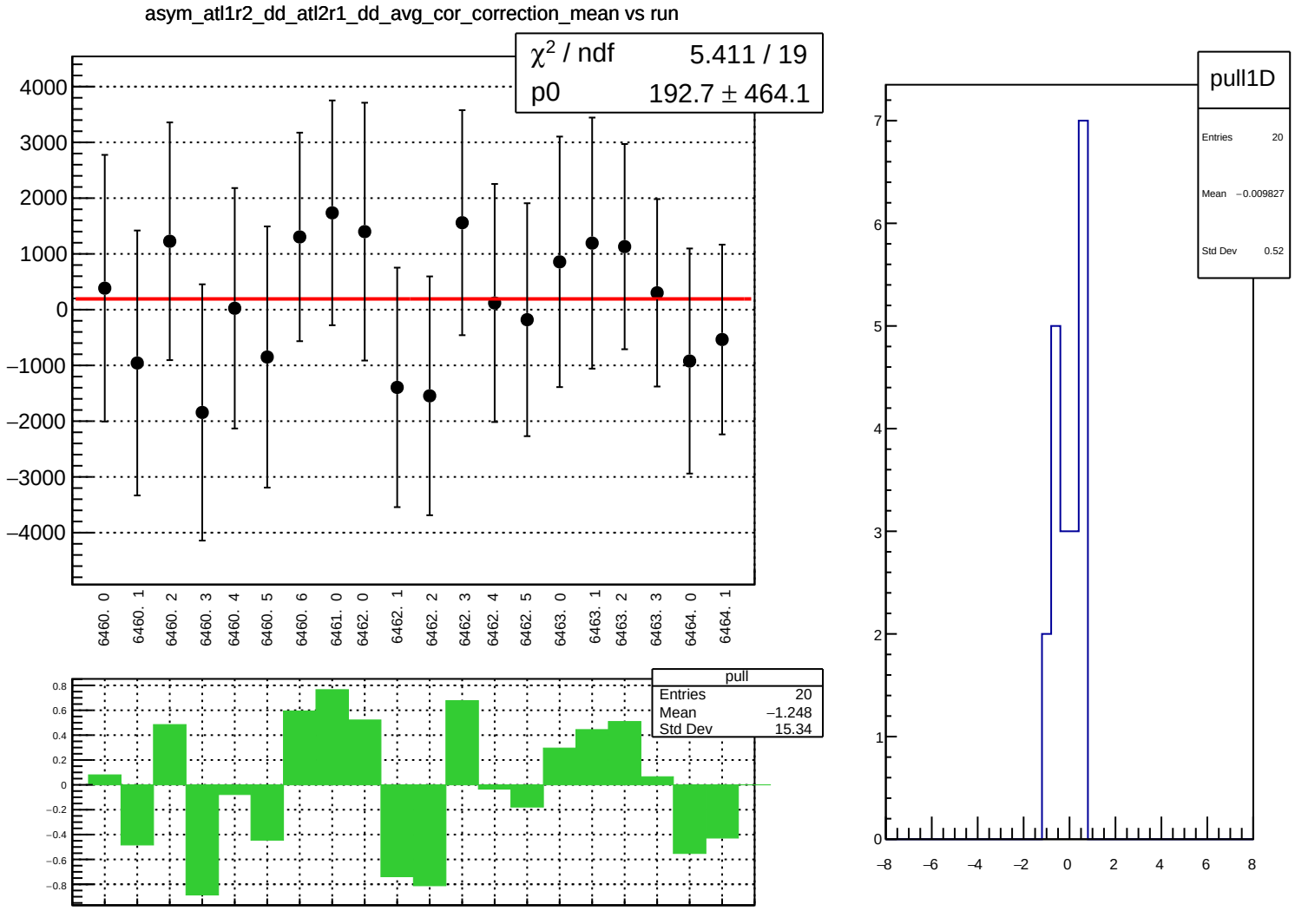

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 5.421 / 19
p0 193.6 ± 464.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.383
Std Dev 15.15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.009924
Std Dev 0.5205
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

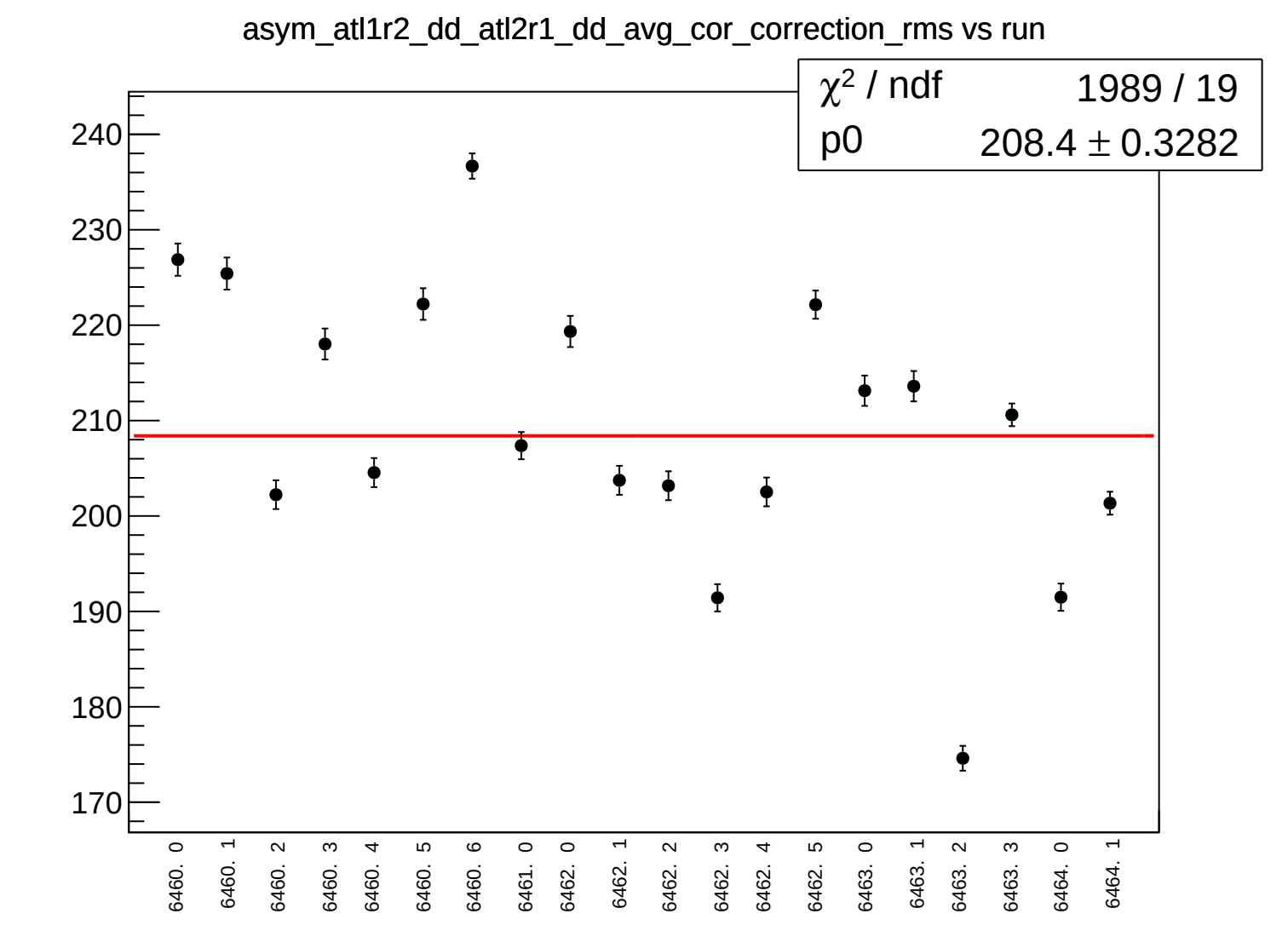

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1982 / 19
p0 208.4 ± 0.3282
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 16.72 / 19
p0 −2182 ± 2851
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 20
Mean 0.01092
Std Dev 0.9142
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 14.39 / 19
p0 1283 ± 2.016
1310
1300
1290
1280
1270
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 5.411 / 19
p0 192.7 ± 464.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.248
Std Dev 15.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.009827
Std Dev 0.52
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1989 / 19
p0 208.4 ± 0.3282
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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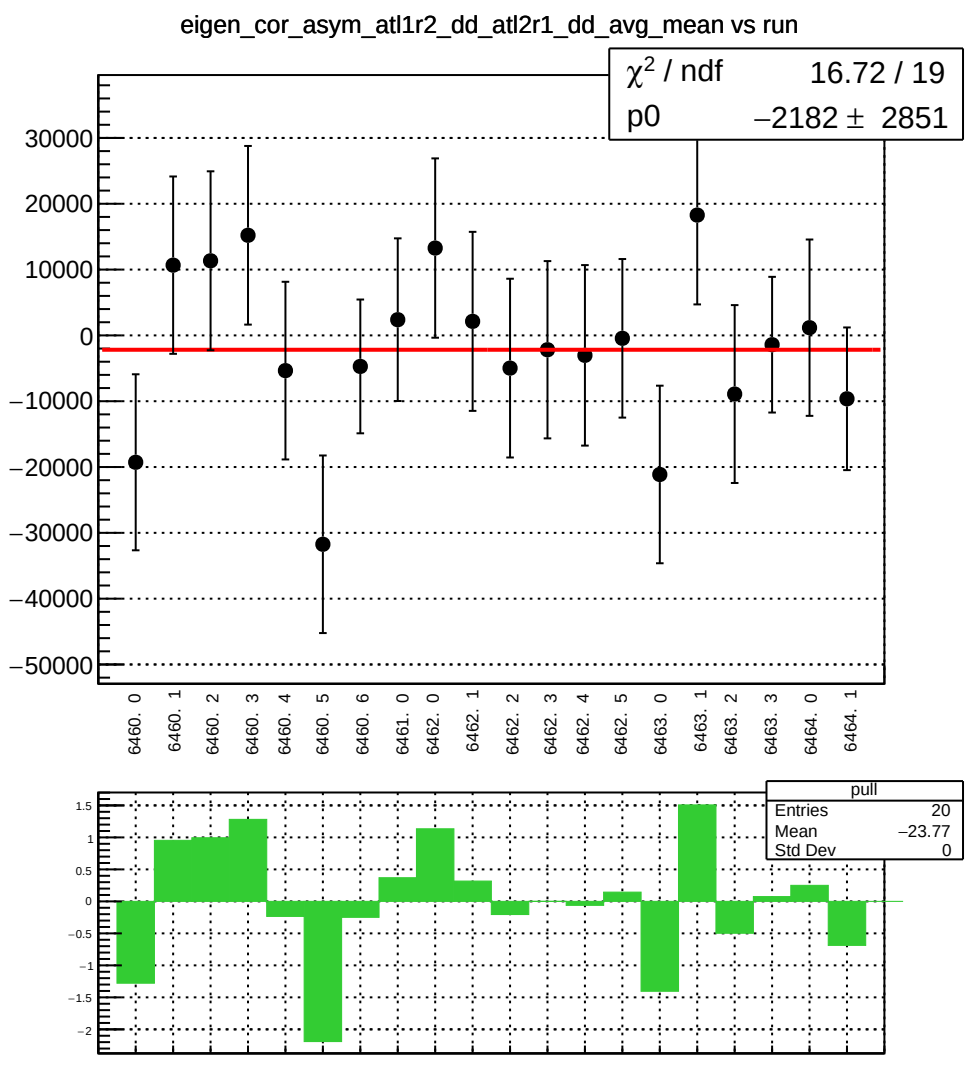
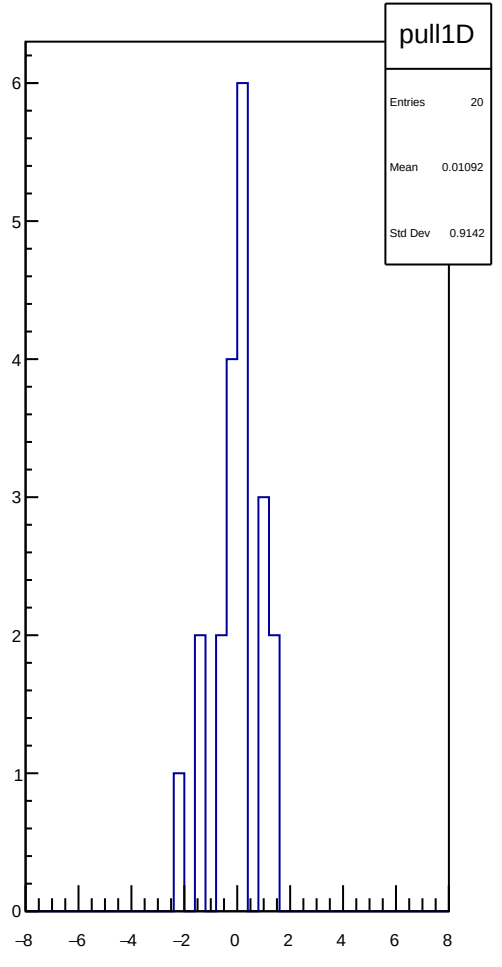
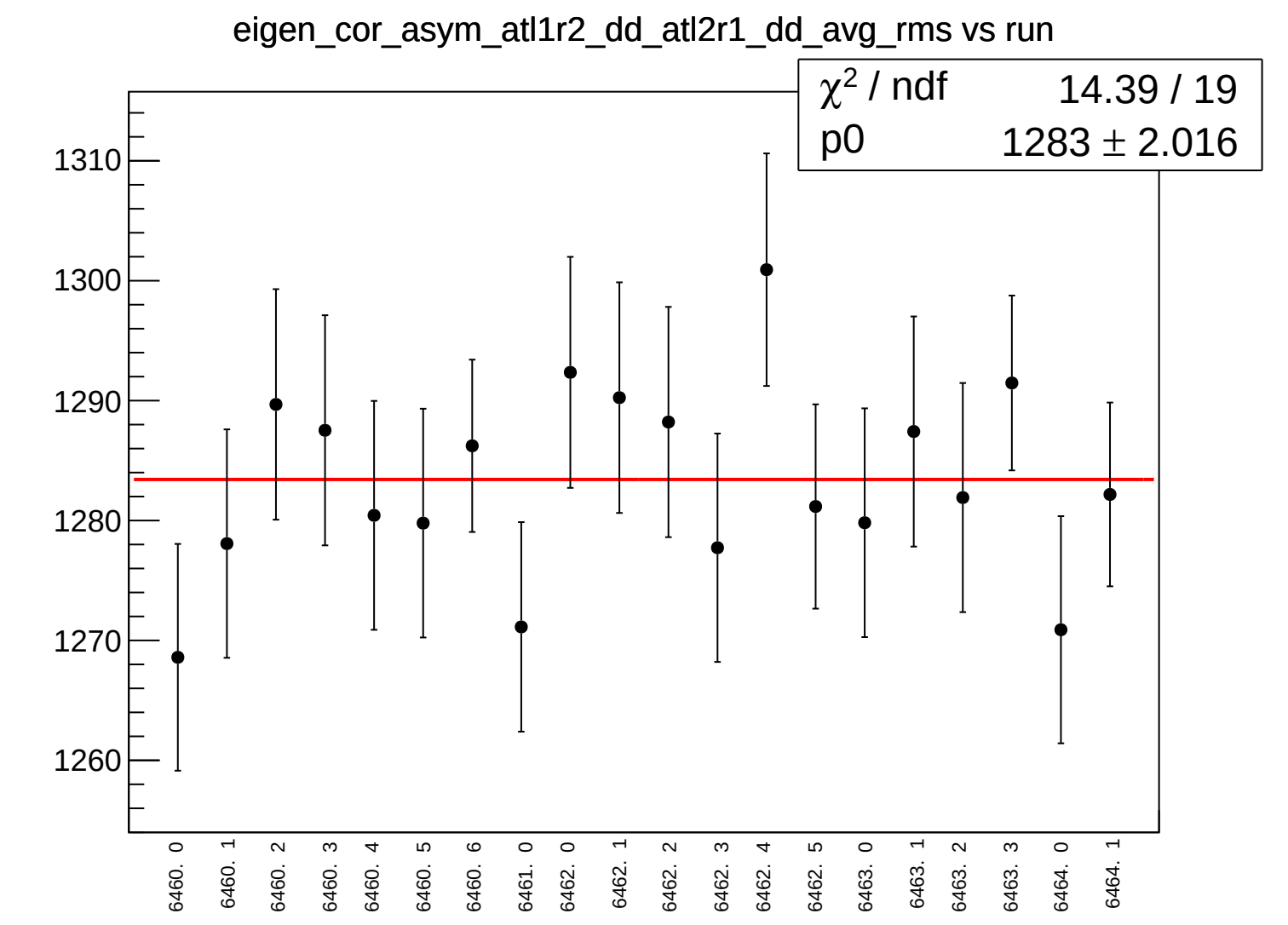
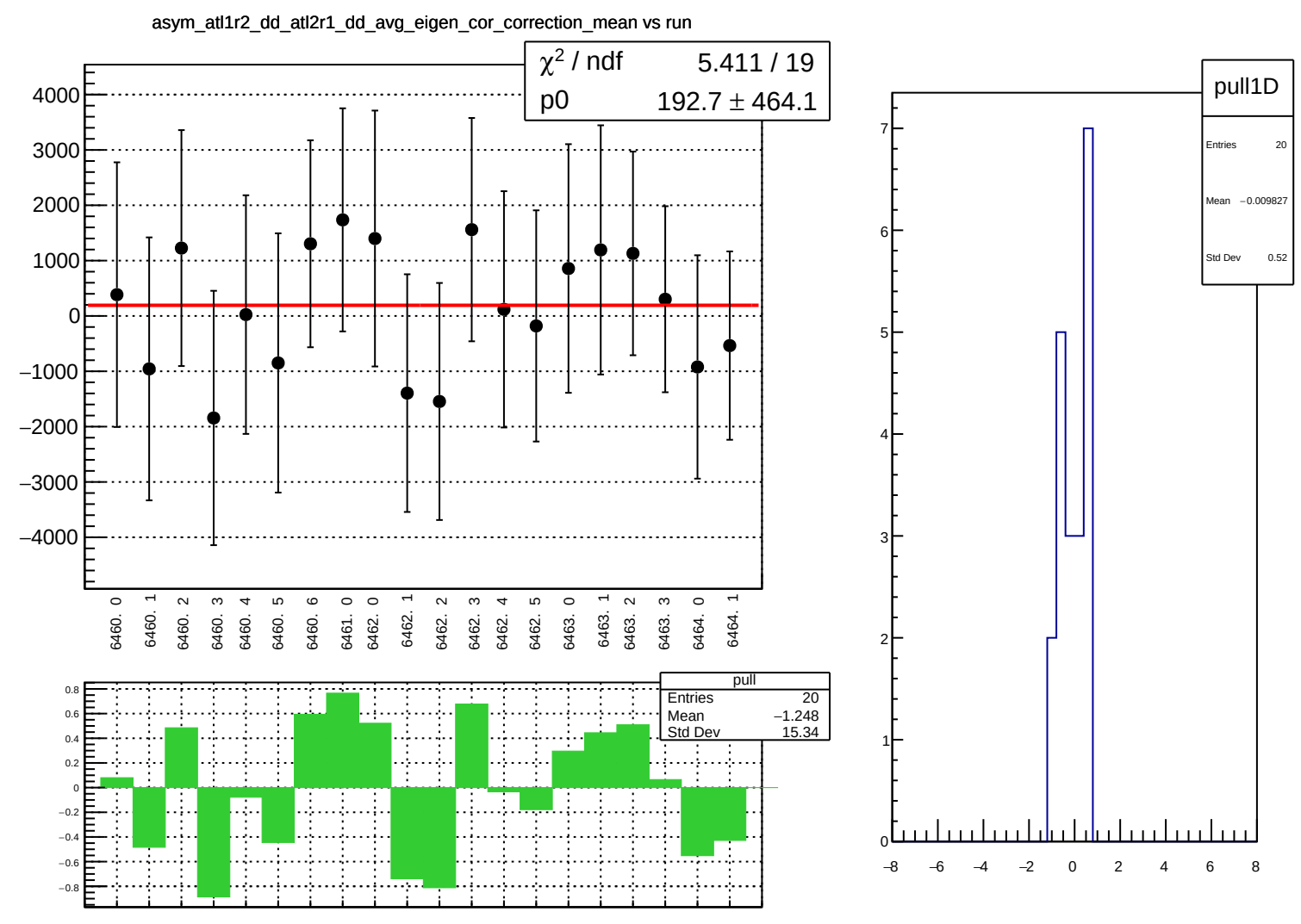
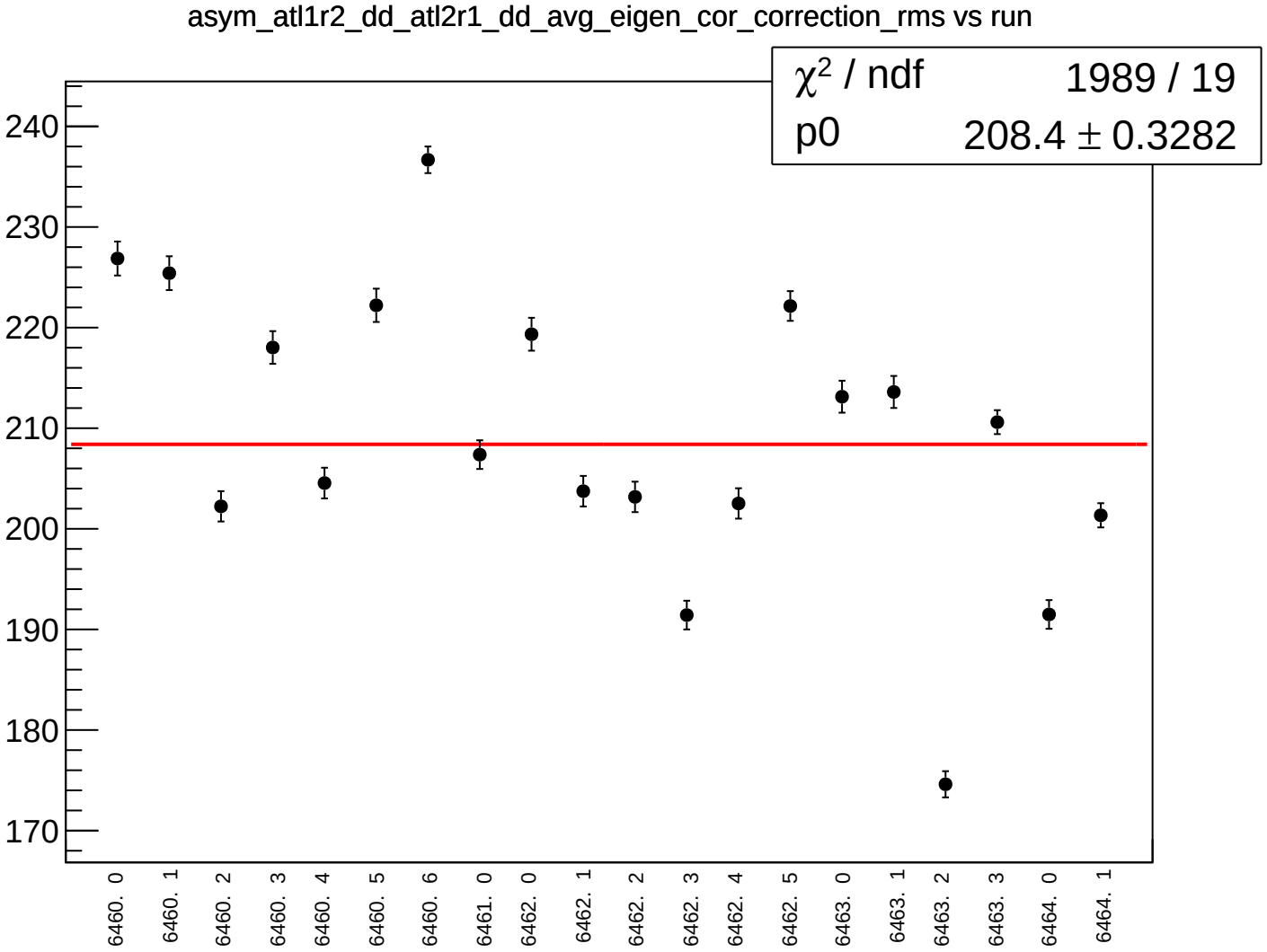
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

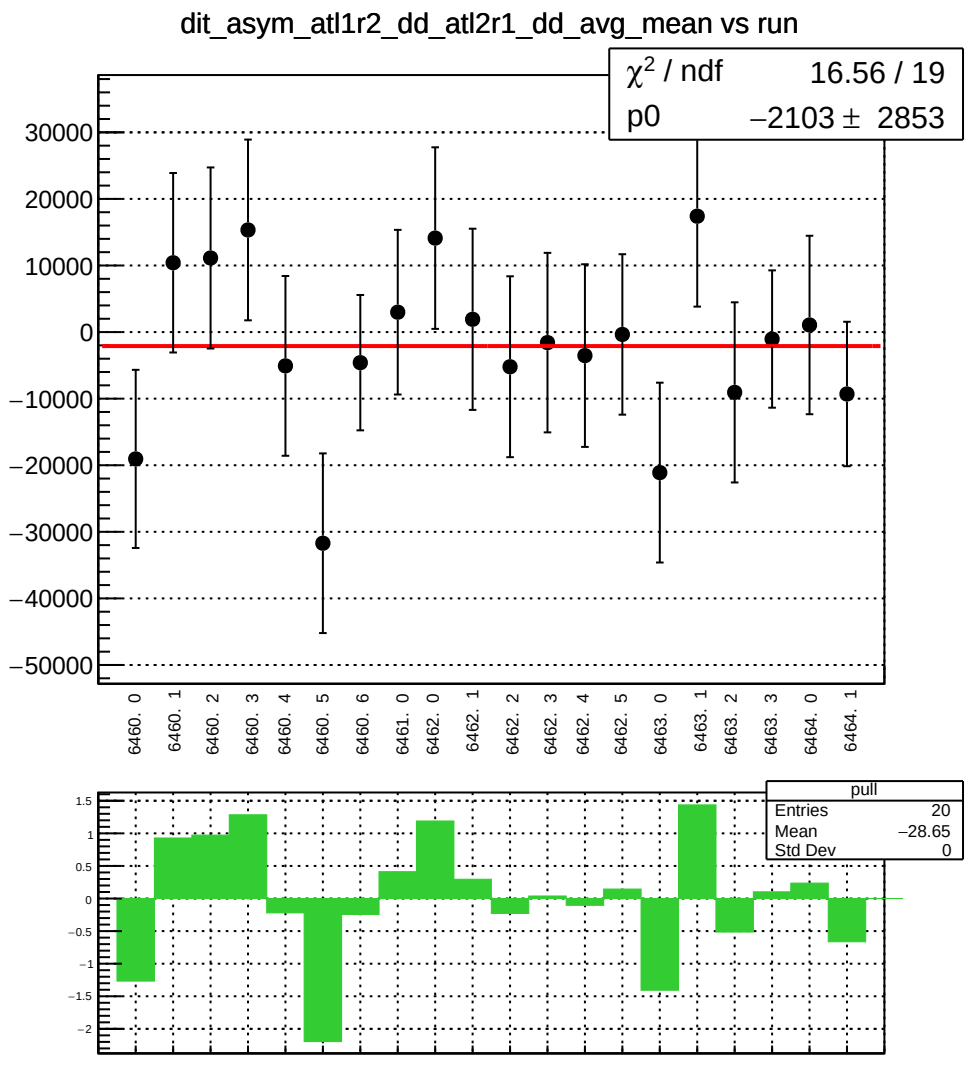

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 16.72 / 19
p0 −2182 ± 2851
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

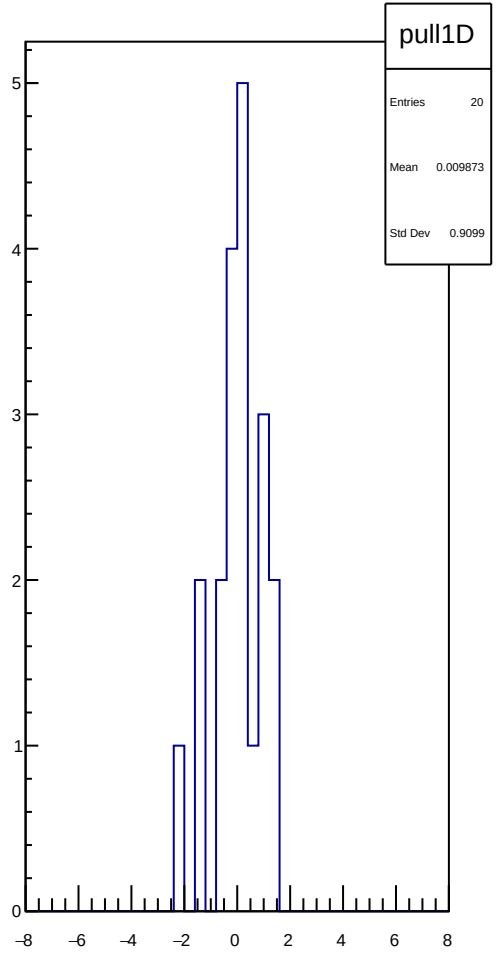

pull1D
Entries 20
Mean 0.01092
Std Dev 0.9142
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

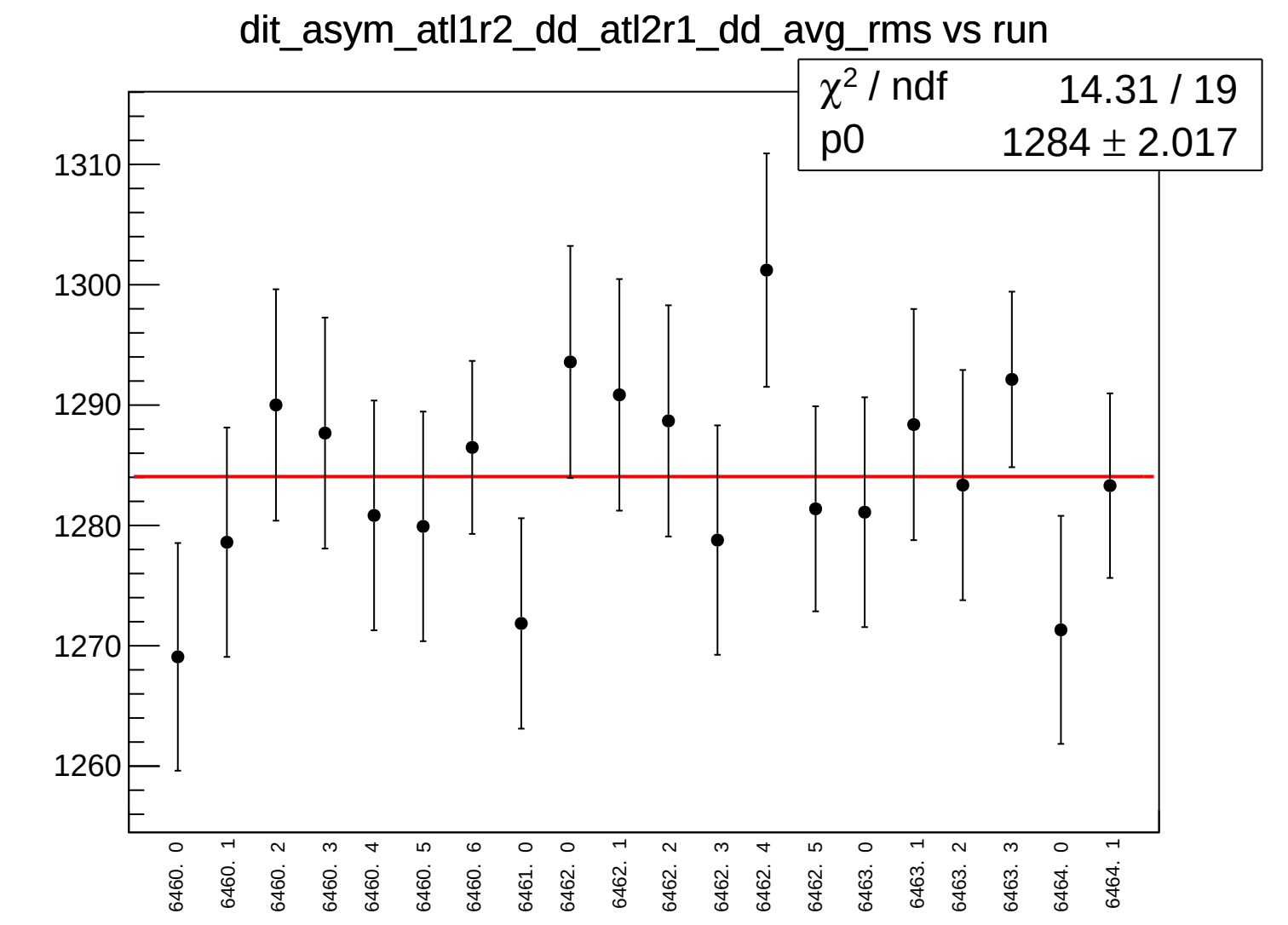

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 14.39 / 19
p0 1283 ± 2.016
1310
1300
1290
1280
1270
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

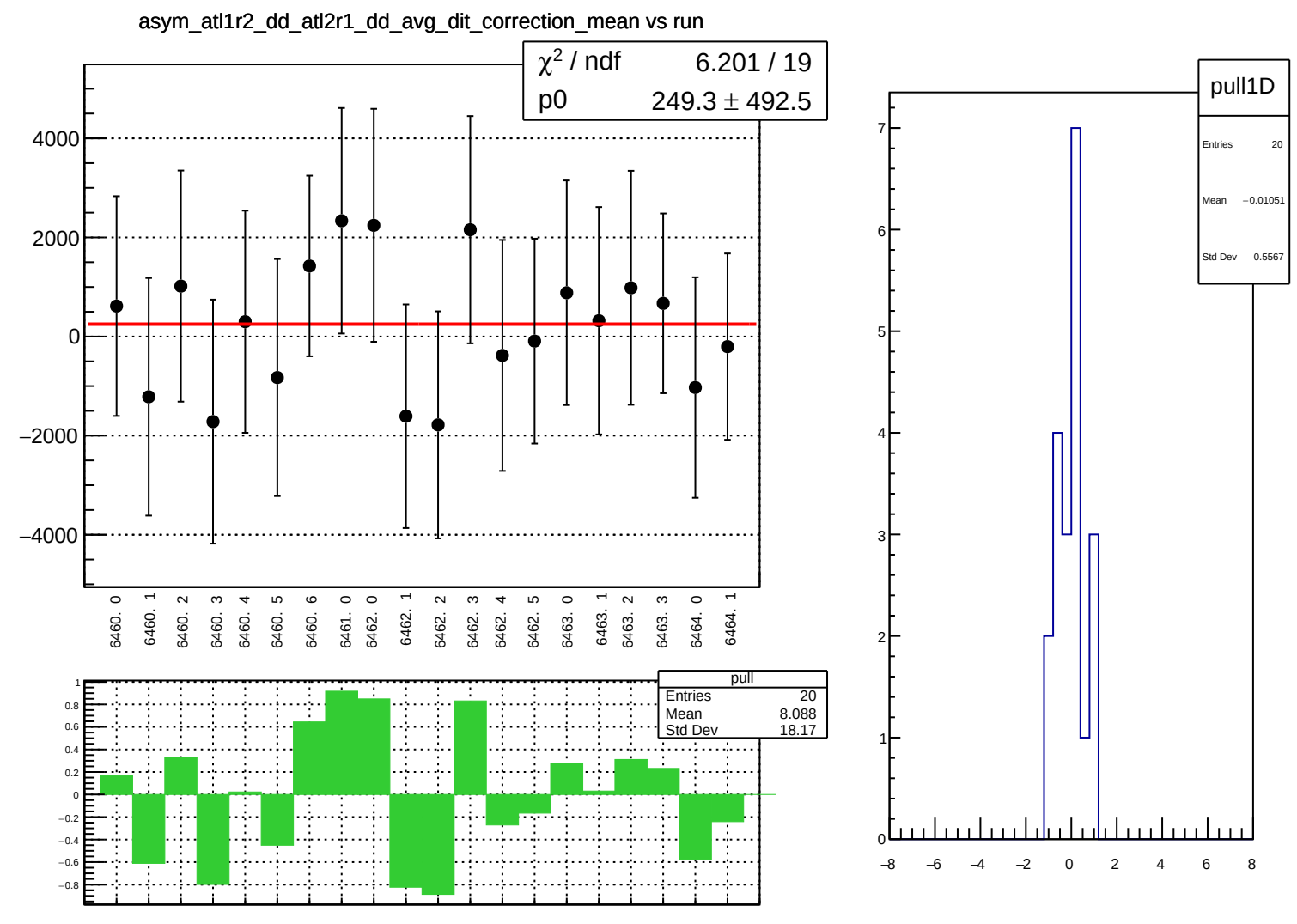

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 5.411 / 19
p0 192.7 ± 464.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.248
Std Dev 15.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.009827
Std Dev 0.52
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

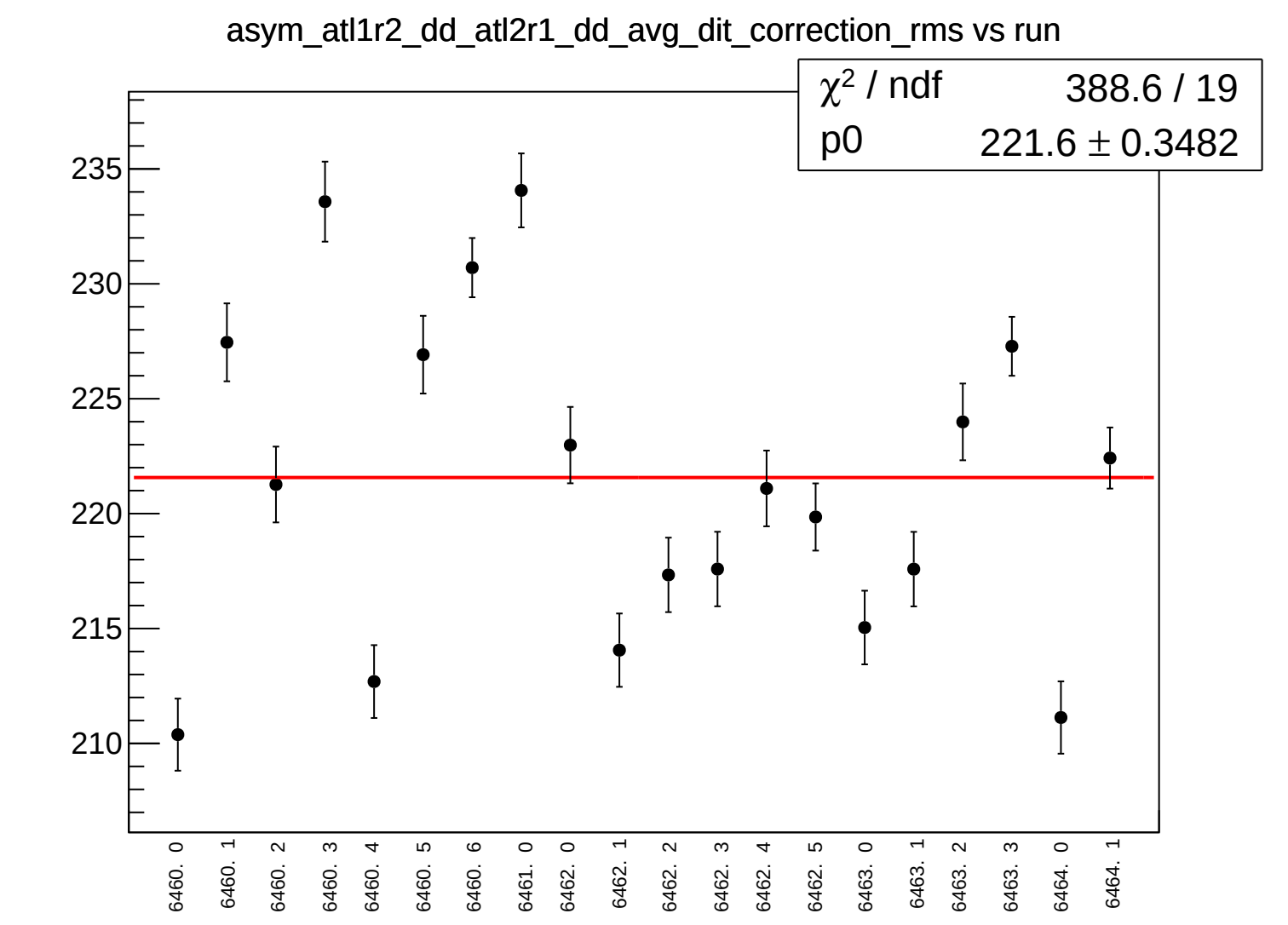

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1989 / 19
p0 208.4 ± 0.3282
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

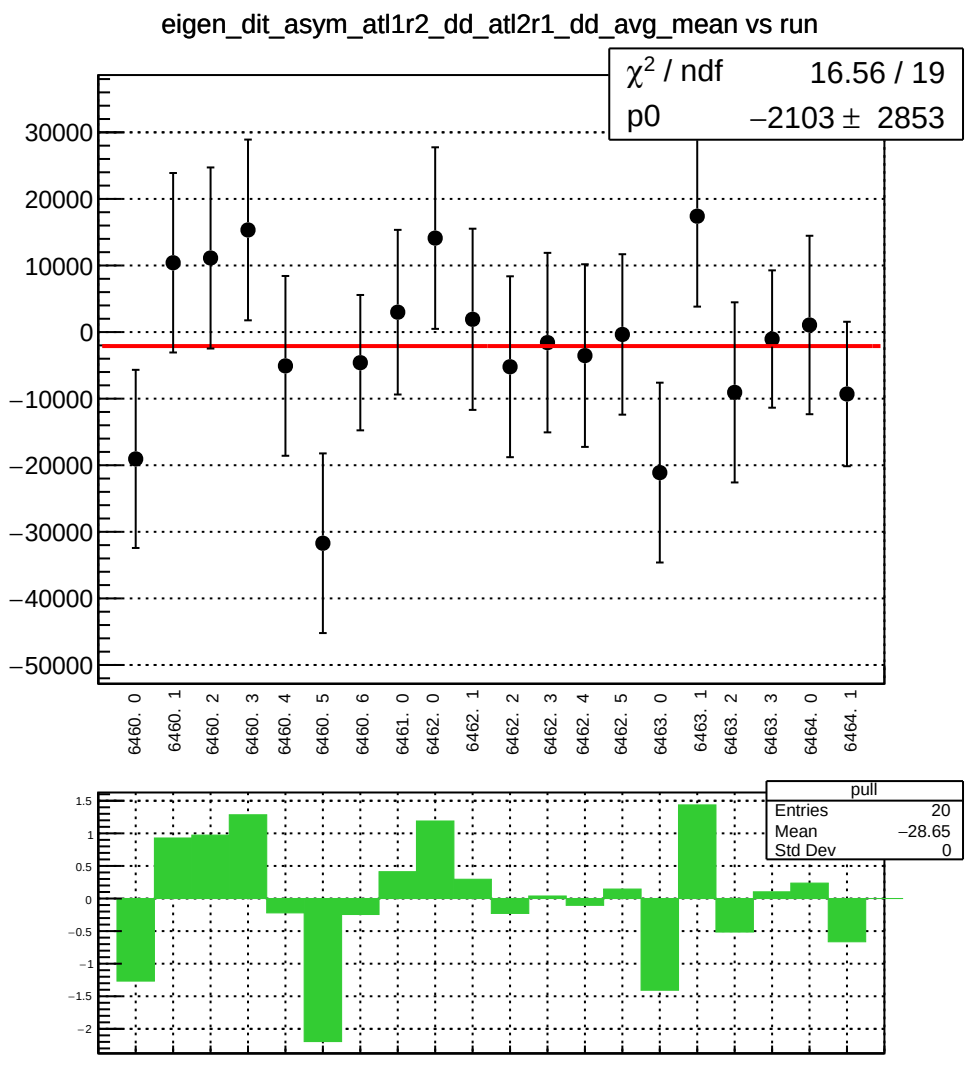

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 16.56 / 19
p0 −2103 ± 2853
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −28.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

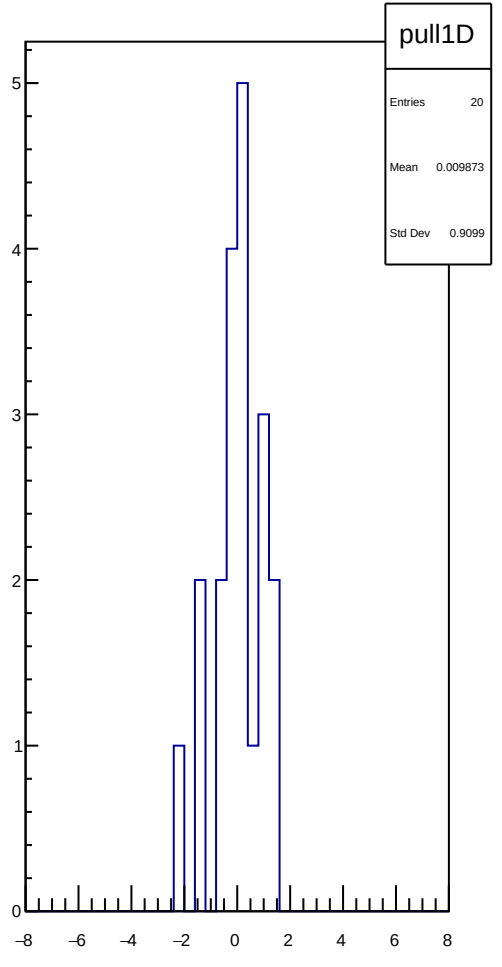

pull1D
Entries 20
Mean 0.009873
Std Dev 0.9099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

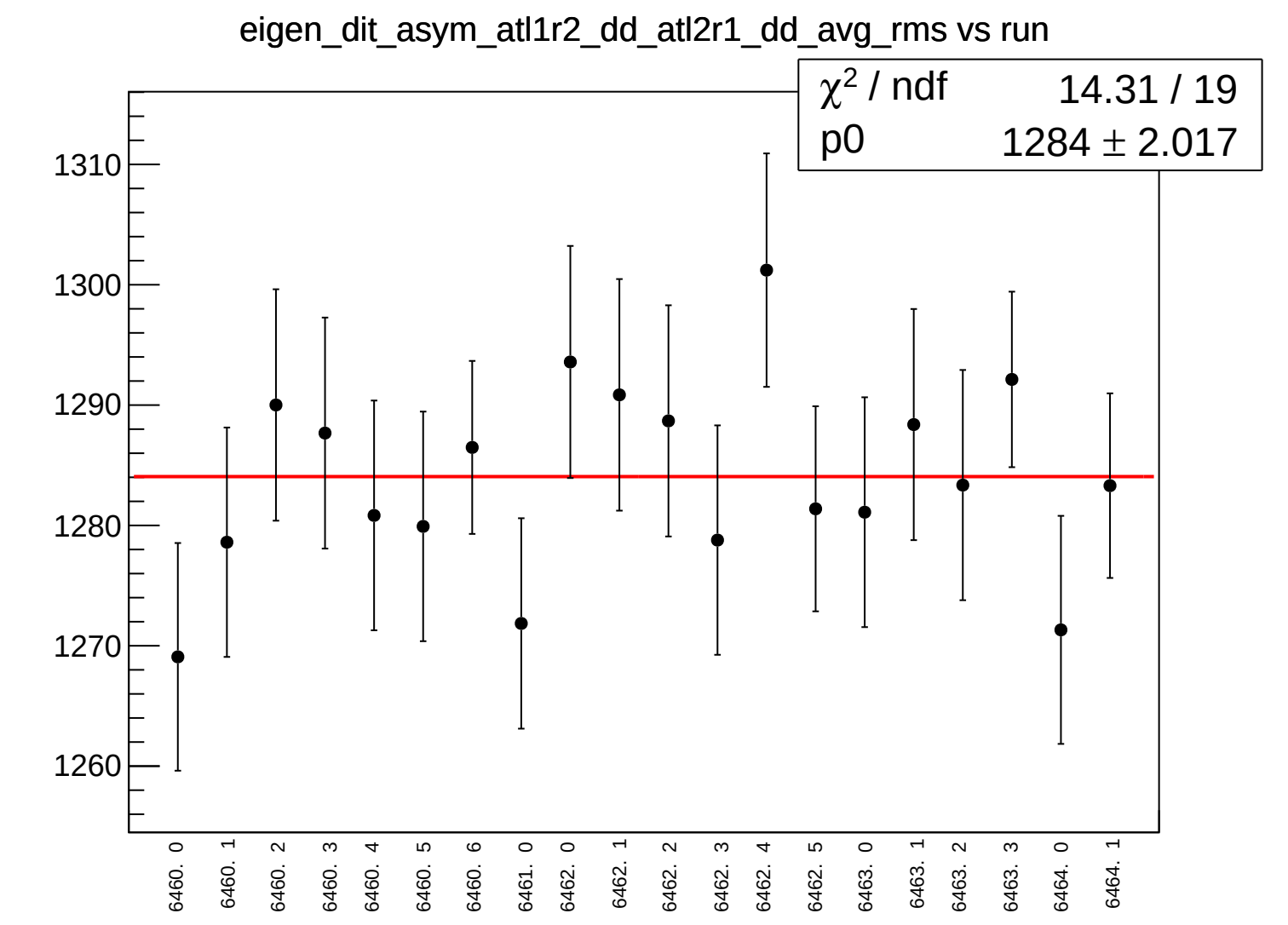

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 14.31 / 19
p0 1284 ± 2.017
1310
1300
1290
1280
1270
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

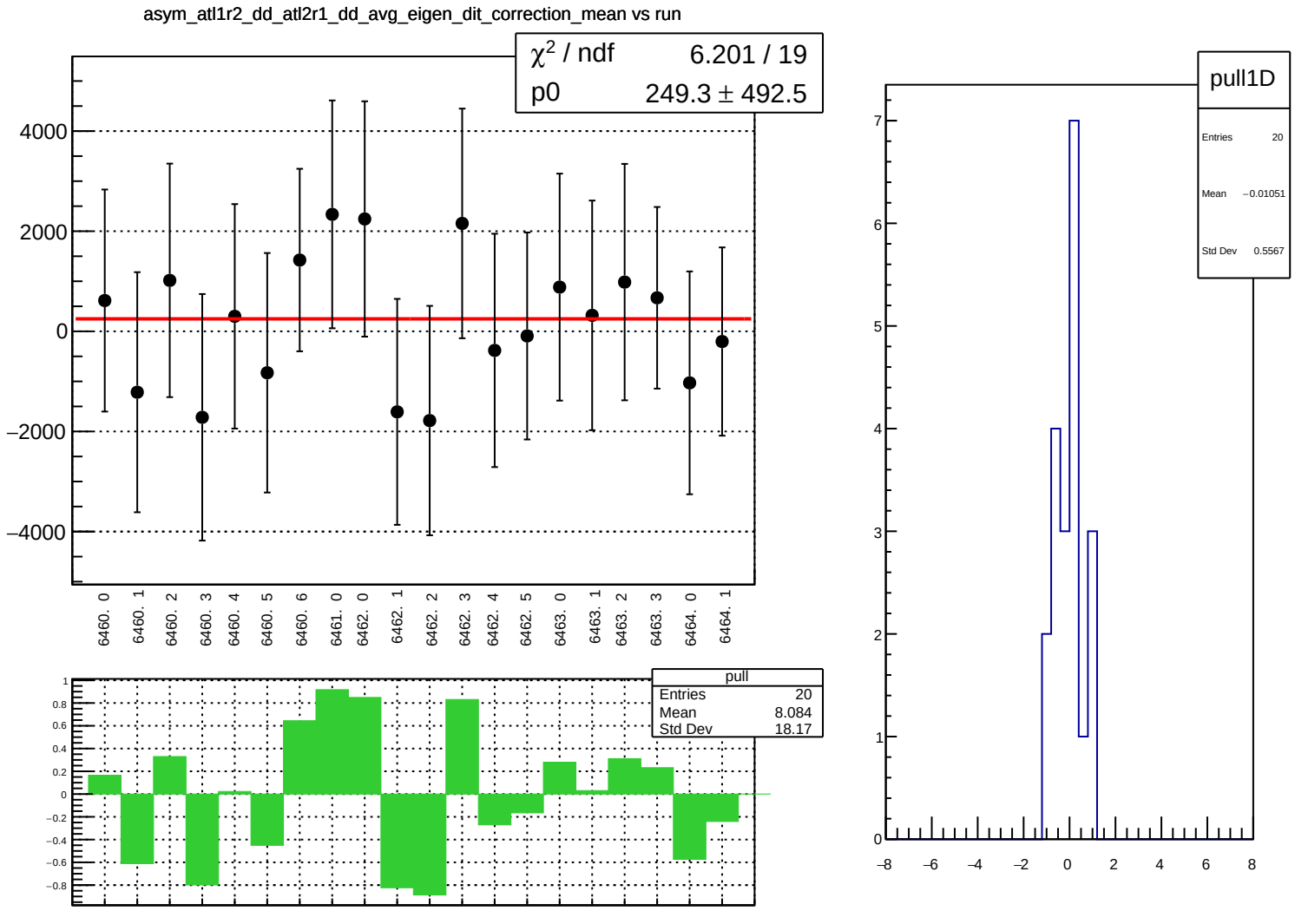

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 6.201 / 19
p0 249.3 ± 492.5
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.088
Std Dev 18.17
pull1D
Entries 20
Mean −0.01051
Std Dev 0.5567

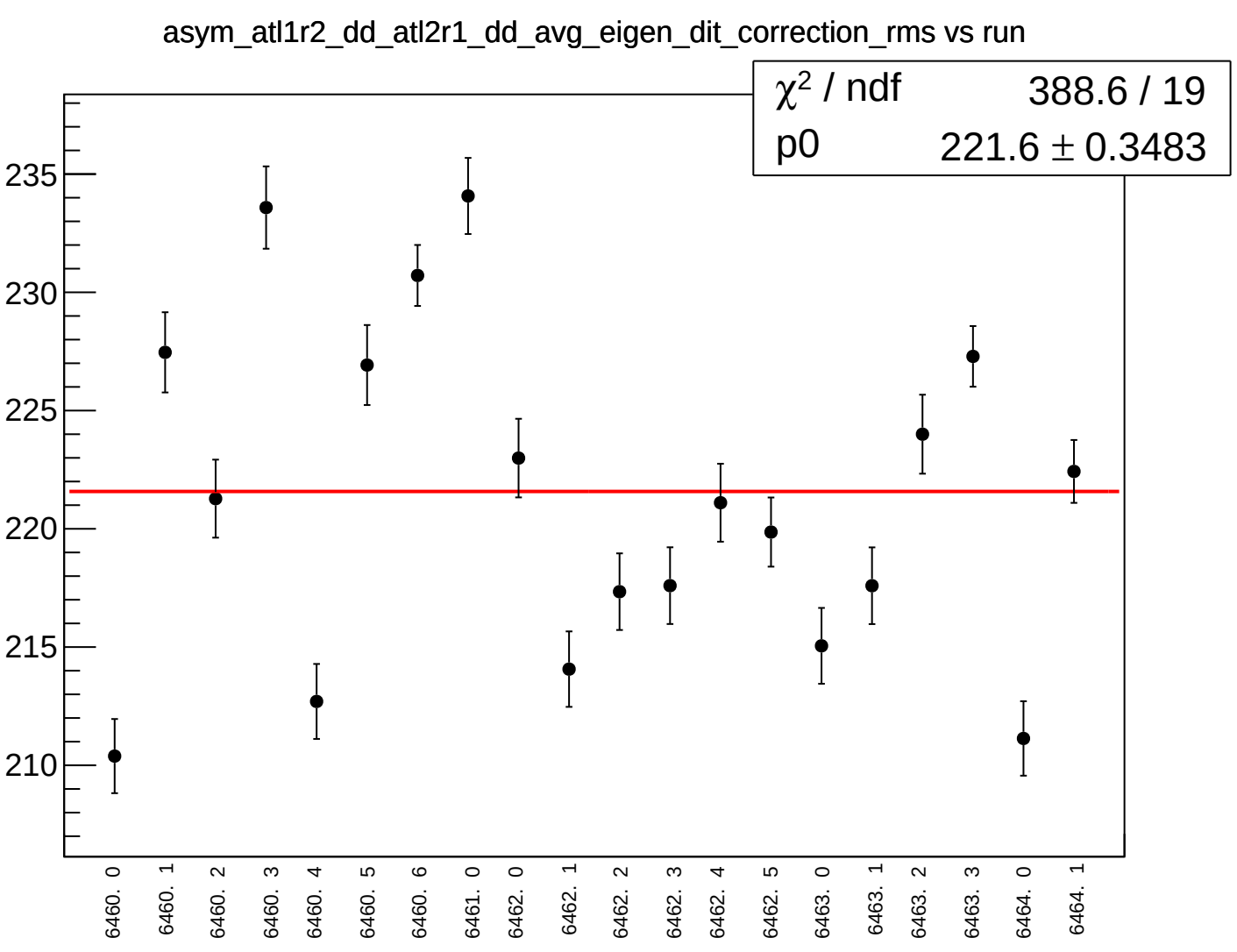

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 388.6 / 19
p0 221.6 ± 0.3482
235
230
225
220
215
210
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 16.56 / 19
p0 −2103 ± 2853
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −28.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 20
Mean 0.009873
Std Dev 0.9099
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 14.31 / 19
p0 1284 ± 2.017
1310
1300
1290
1280
1270
1260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 6.201 / 19
p0 249.3 ± 492.5
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.084
Std Dev 18.17
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.01051
Std Dev 0.5567
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 388.6 / 19
p0 221.6 ± 0.3483
235
230
225
220
215
210
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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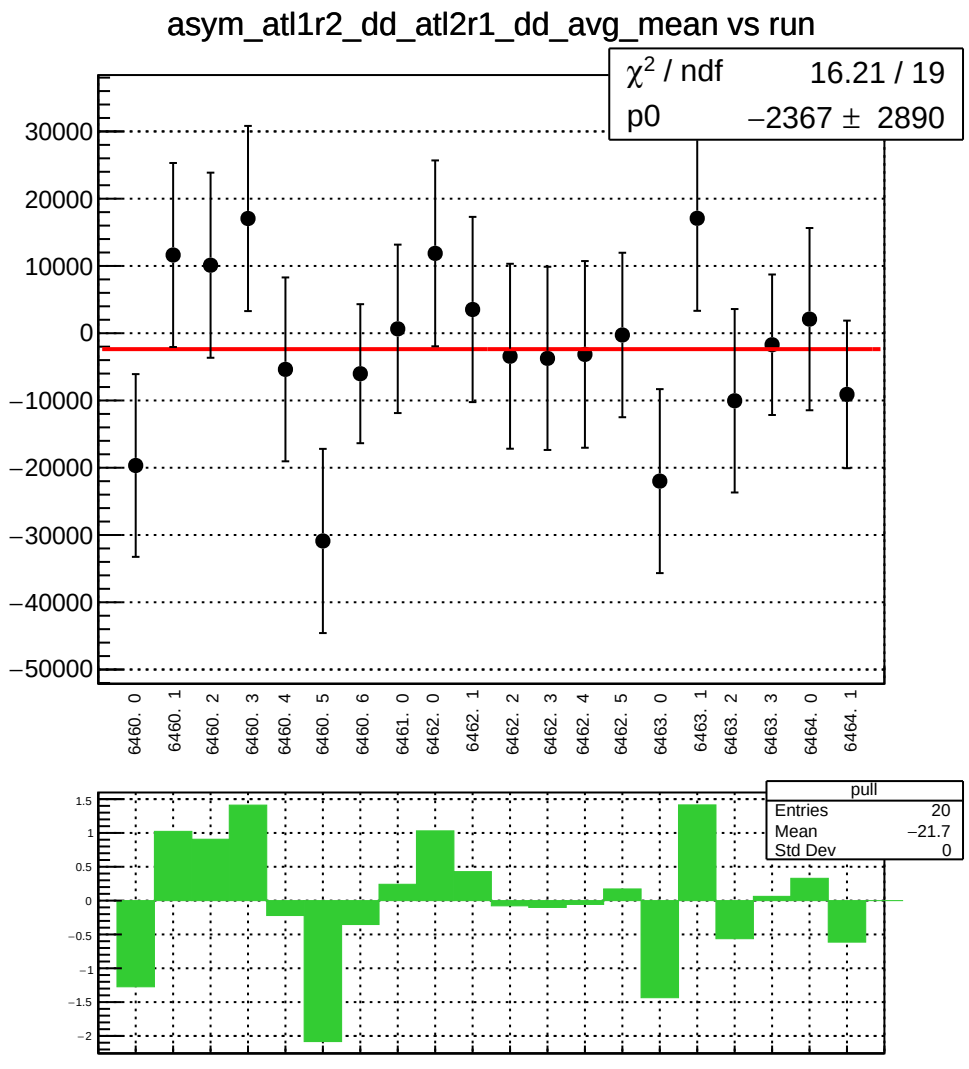
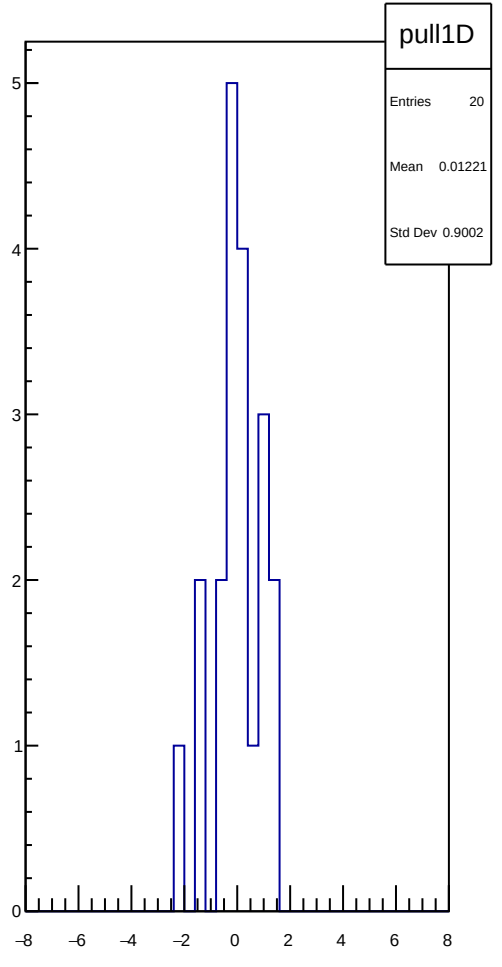
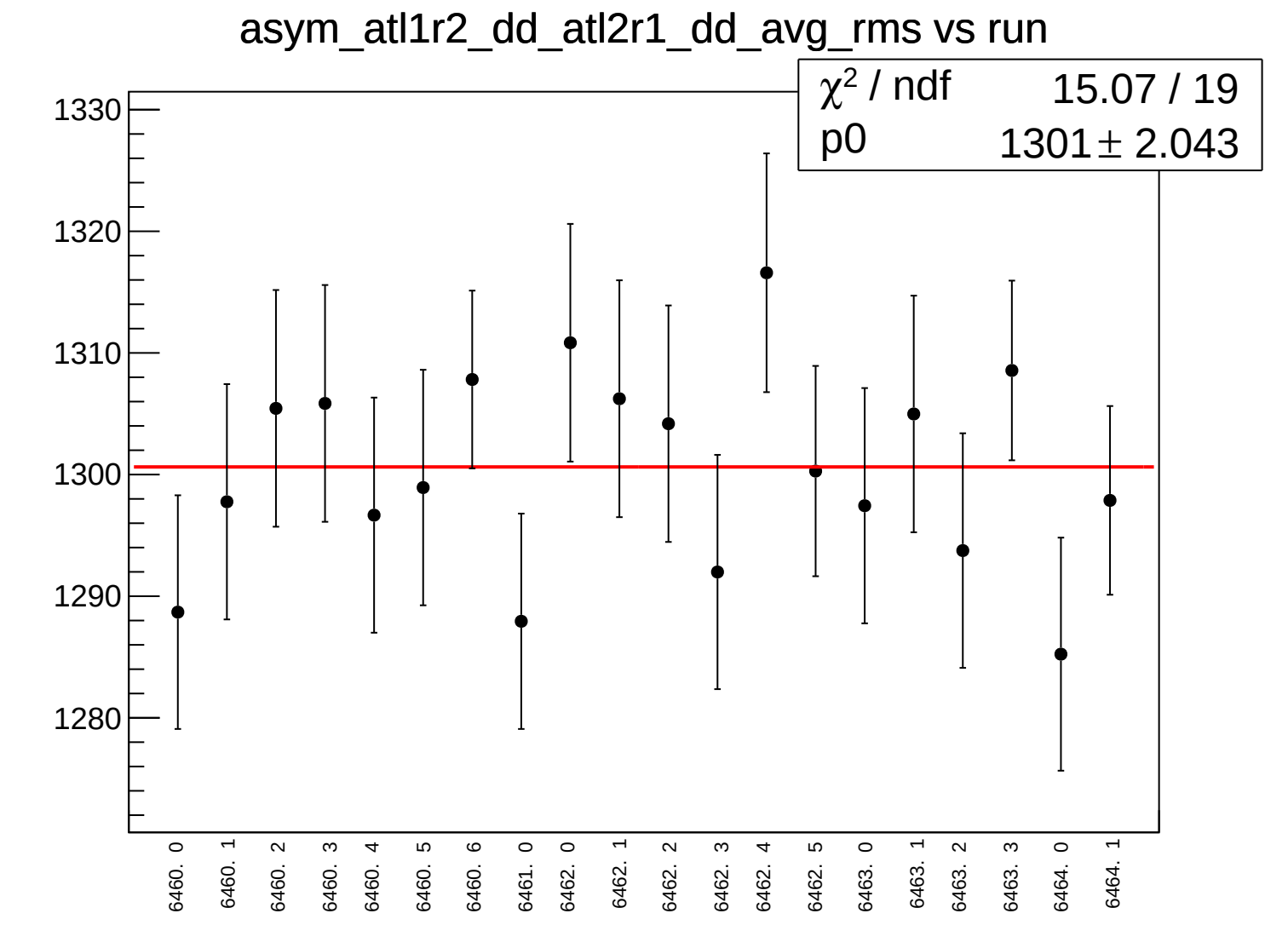
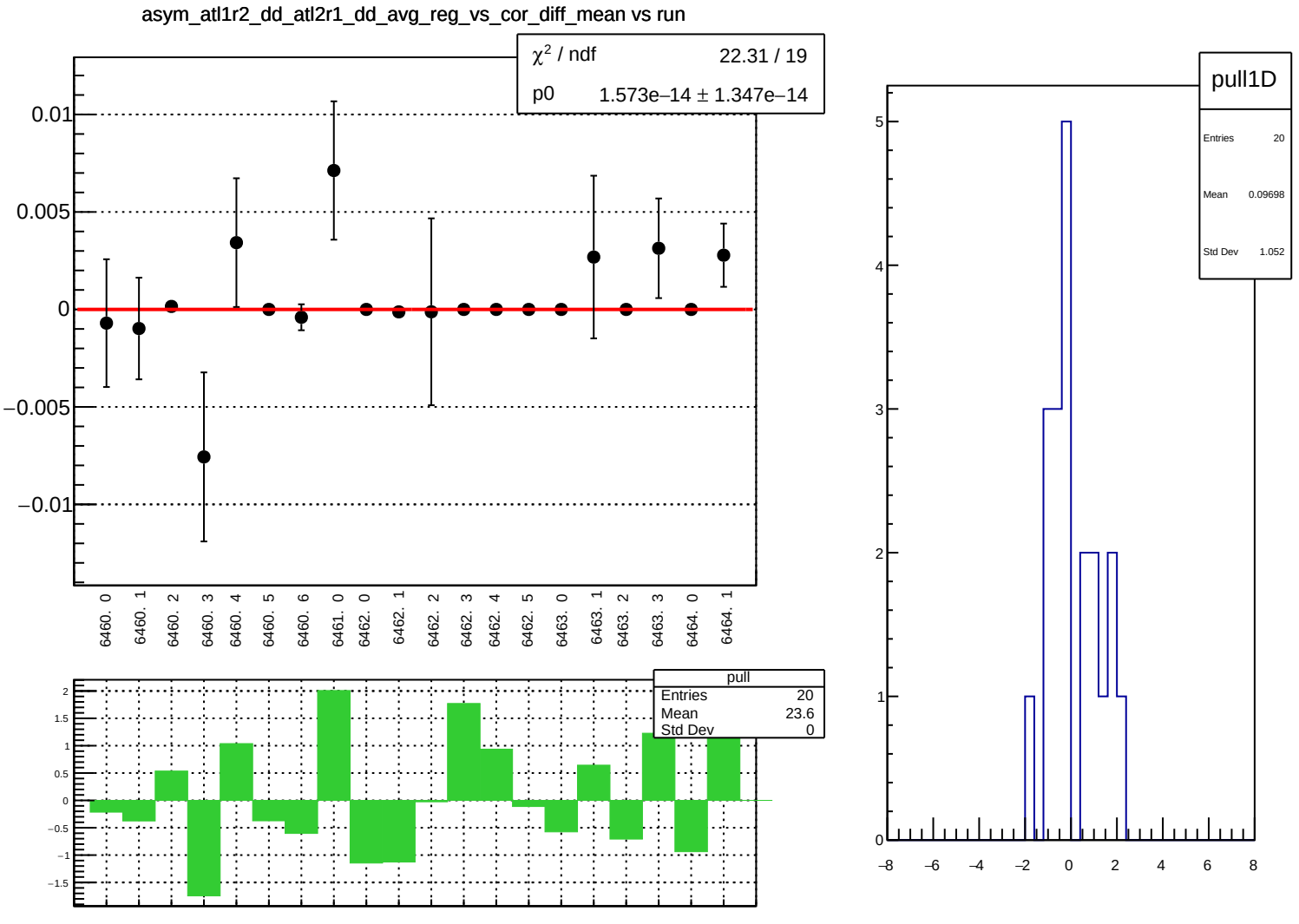
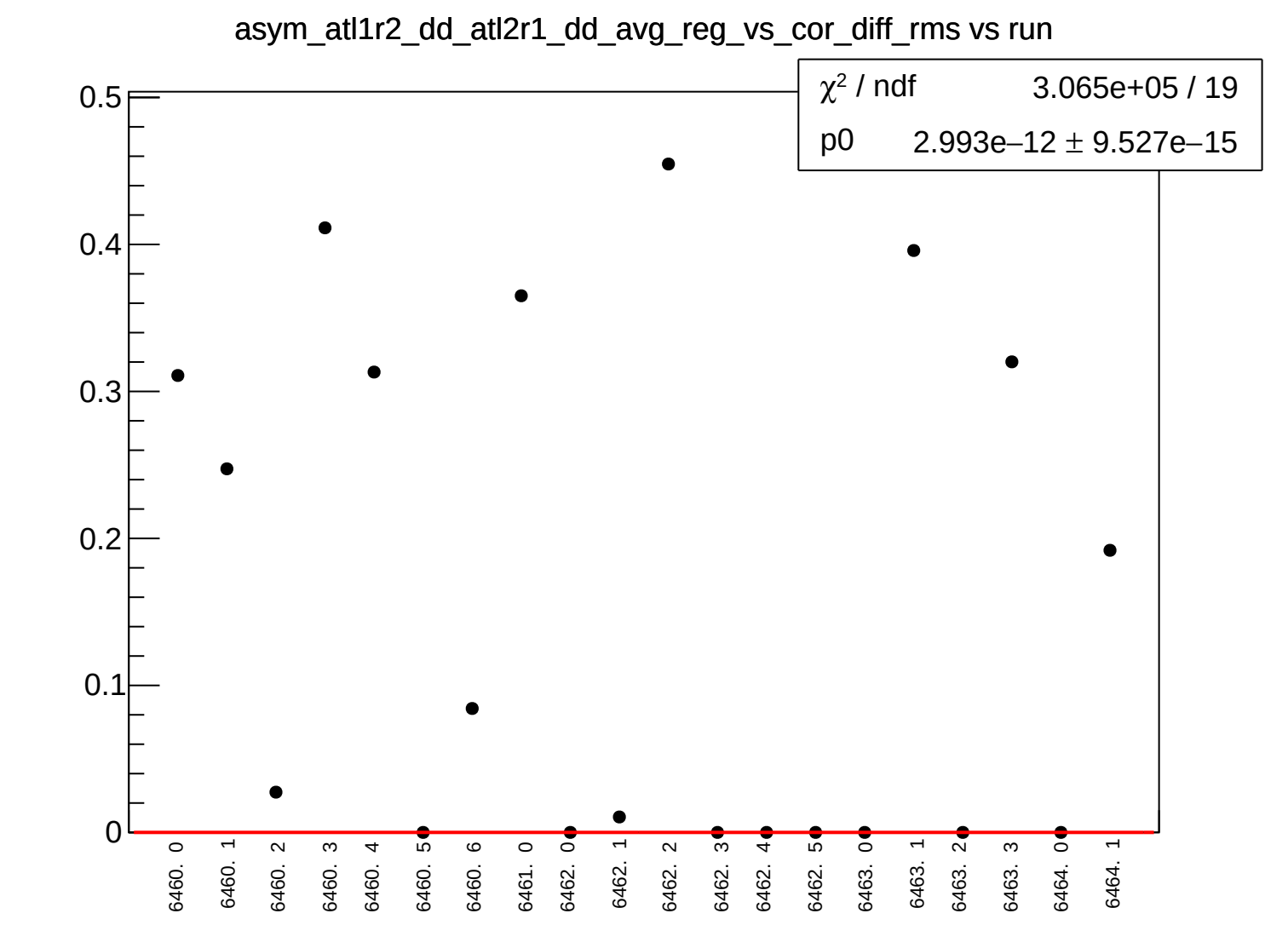
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

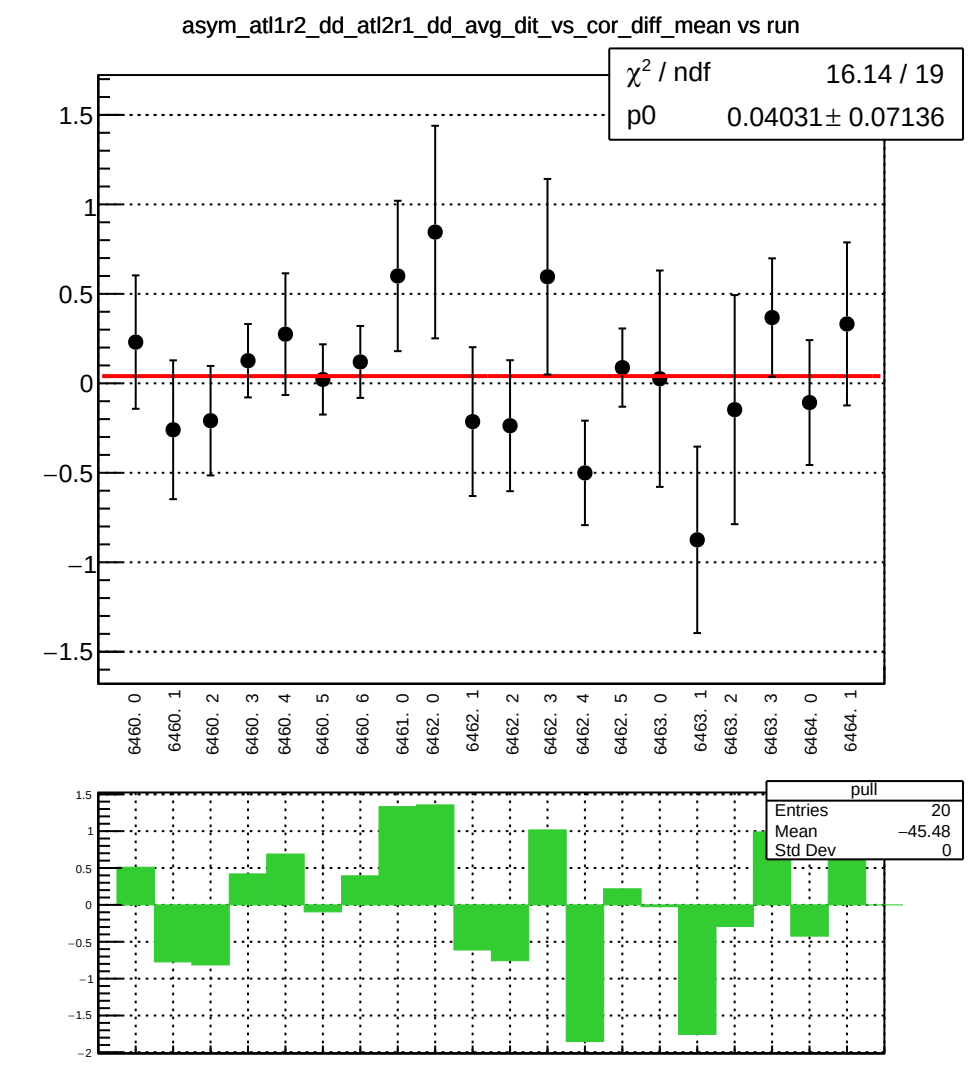

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 16.21 / 19
p0 −2367 ± 2890
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −21.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

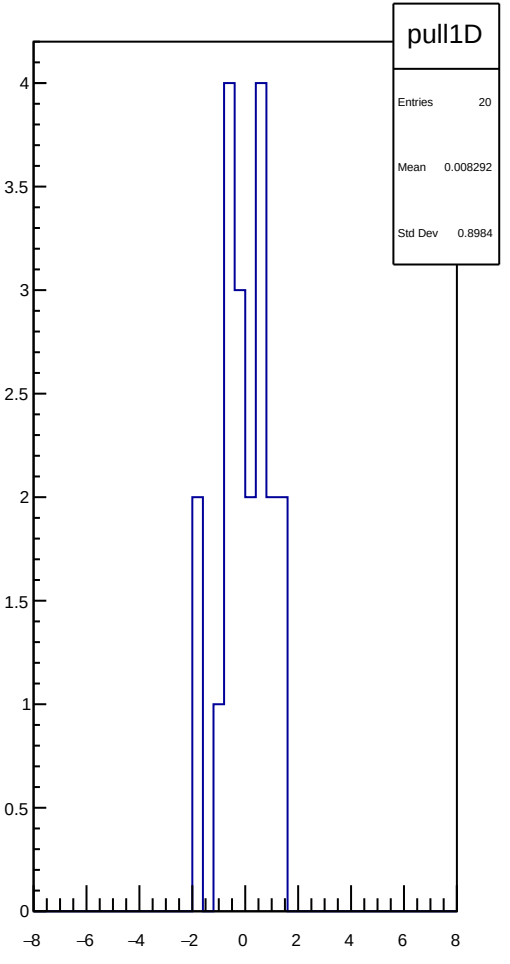

pull1D
Entries 20
Mean 0.01221
Std Dev 0.9002
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

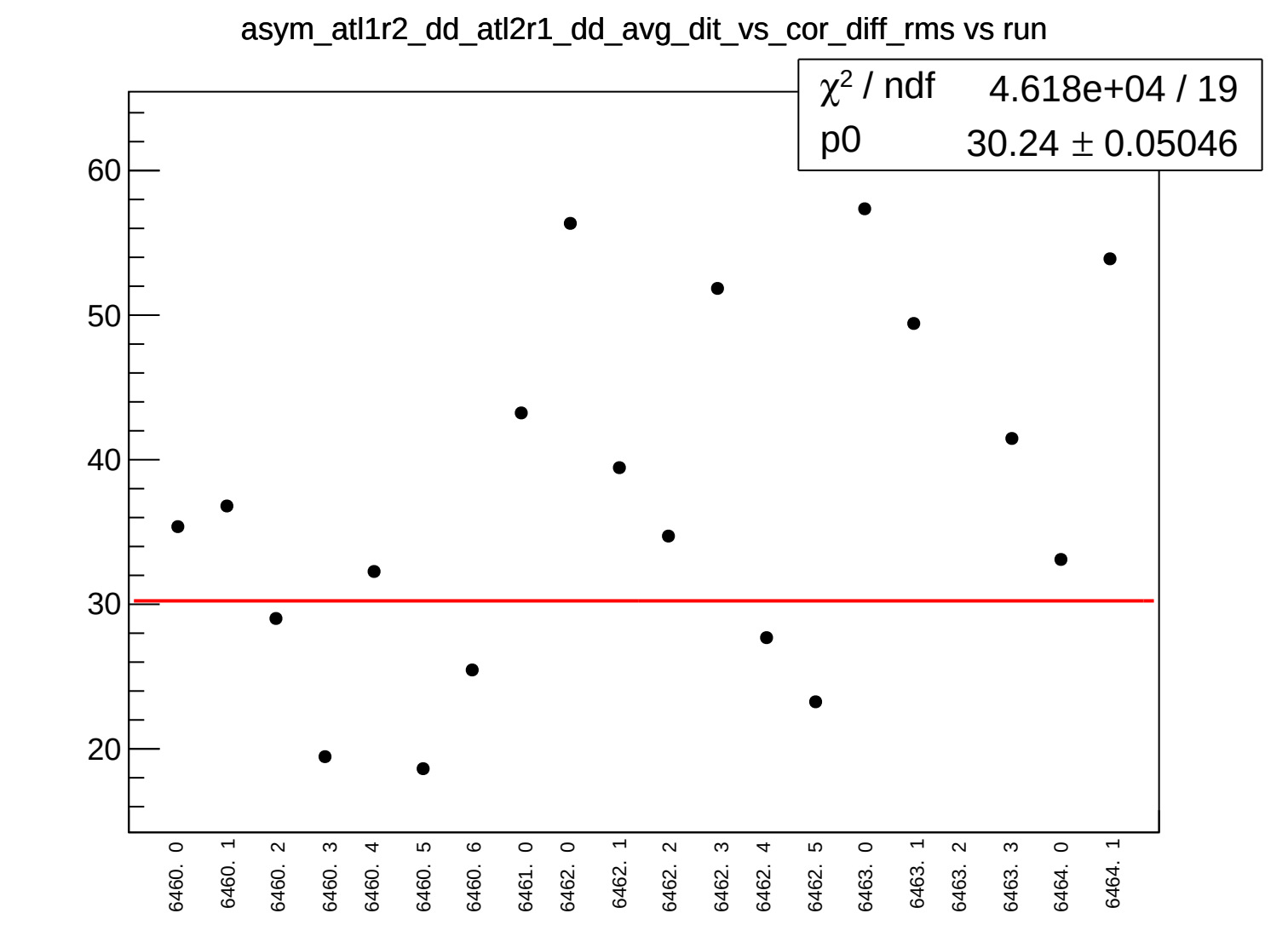

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 15.07 / 19
p0 1301 ± 2.043
1330
1320
1310
1300
1290
1280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 22.31 / 19
p0 1.573e−14 ± 1.347e−14
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.6
Std Dev 0
pull1D
Entries 20
Mean 0.09698
Std Dev 1.052

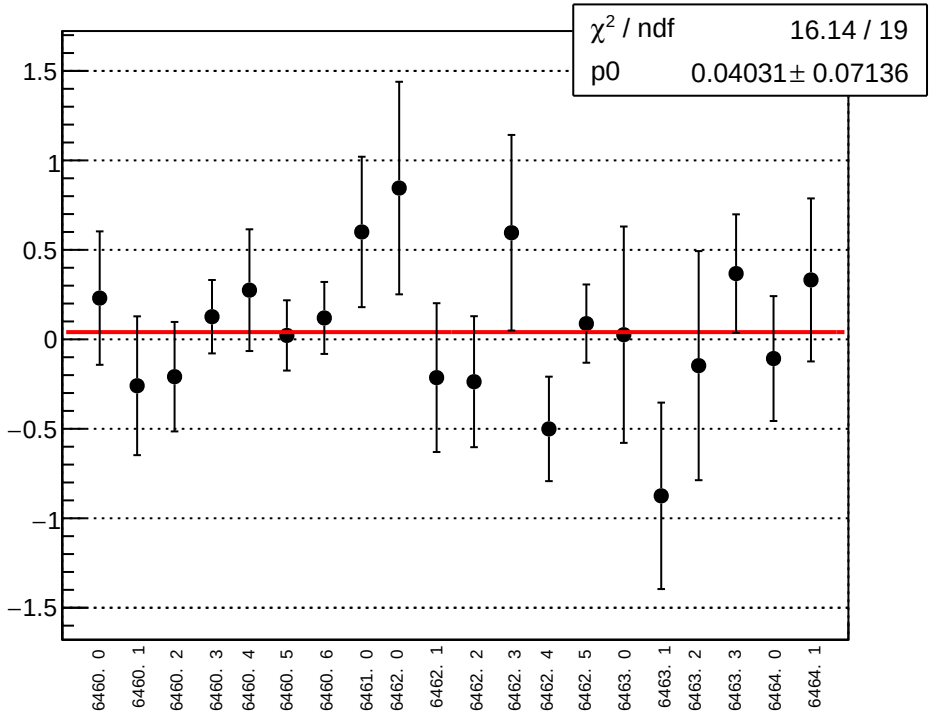

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.065e+05 / 19
p0 2.993e−12 ± 9.527e−15
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

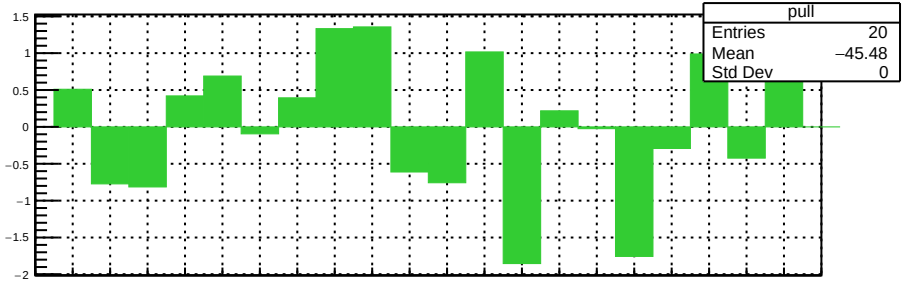

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 16.14 / 19
p0 0.04031 ± 0.07136
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

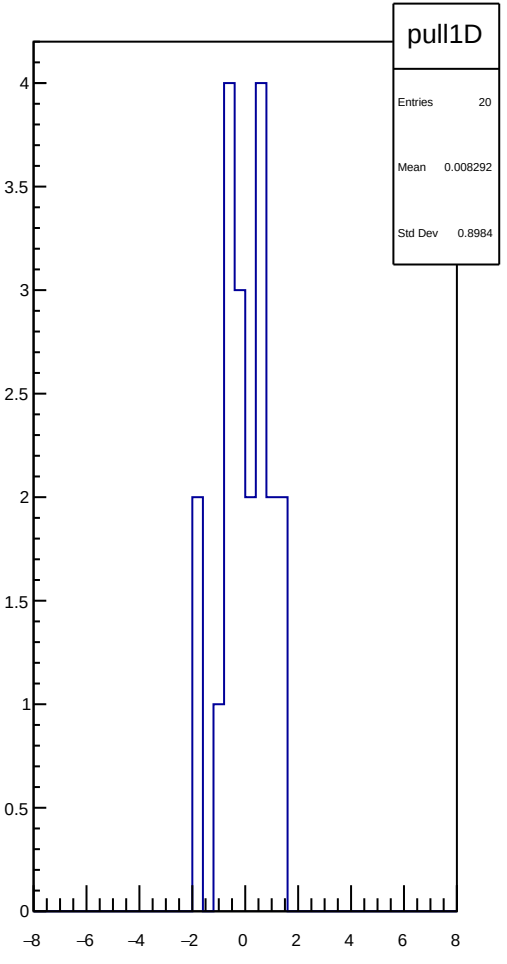

pull1D
Entries 20
Mean 0.008292
Std Dev 0.8984
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

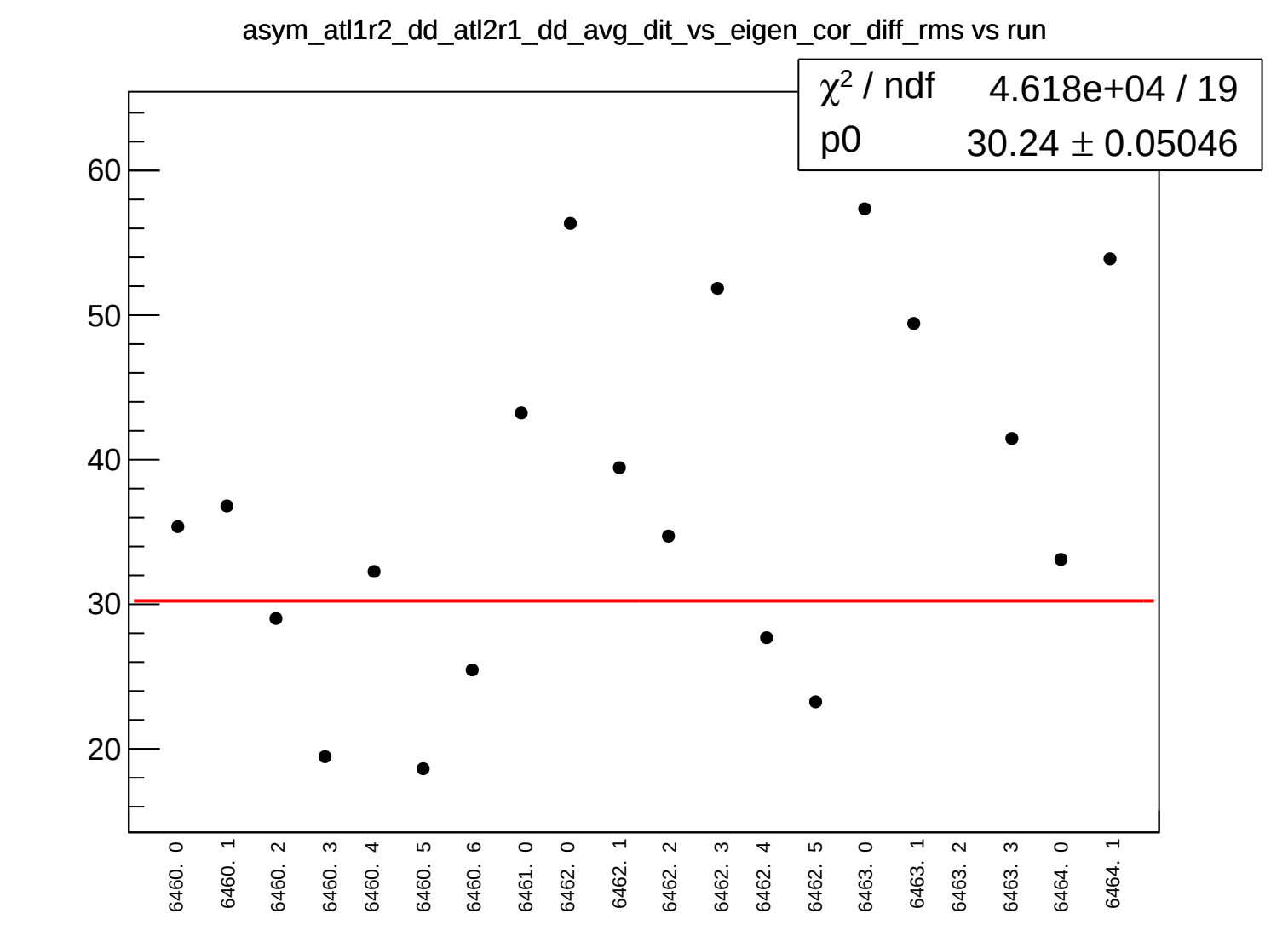

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.618e+04 / 19
p0 30.24 ± 0.05046
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

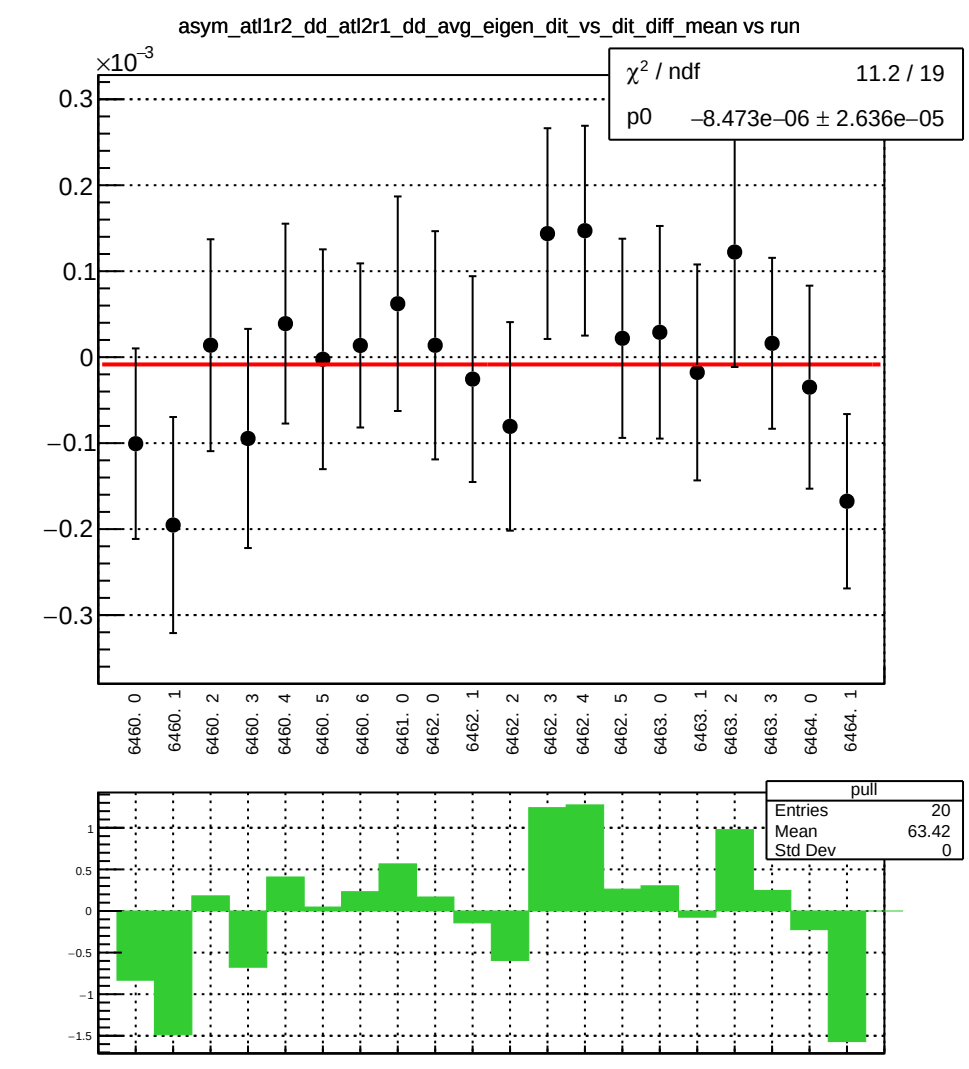
asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run

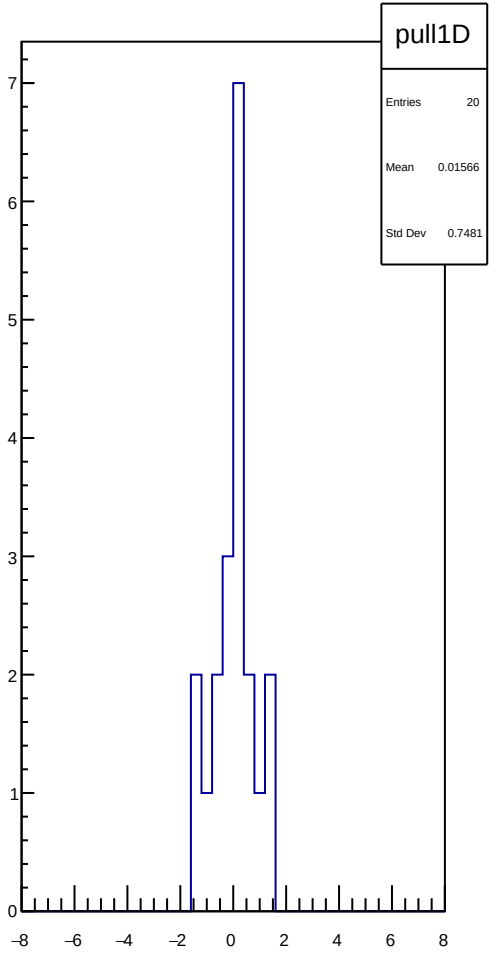


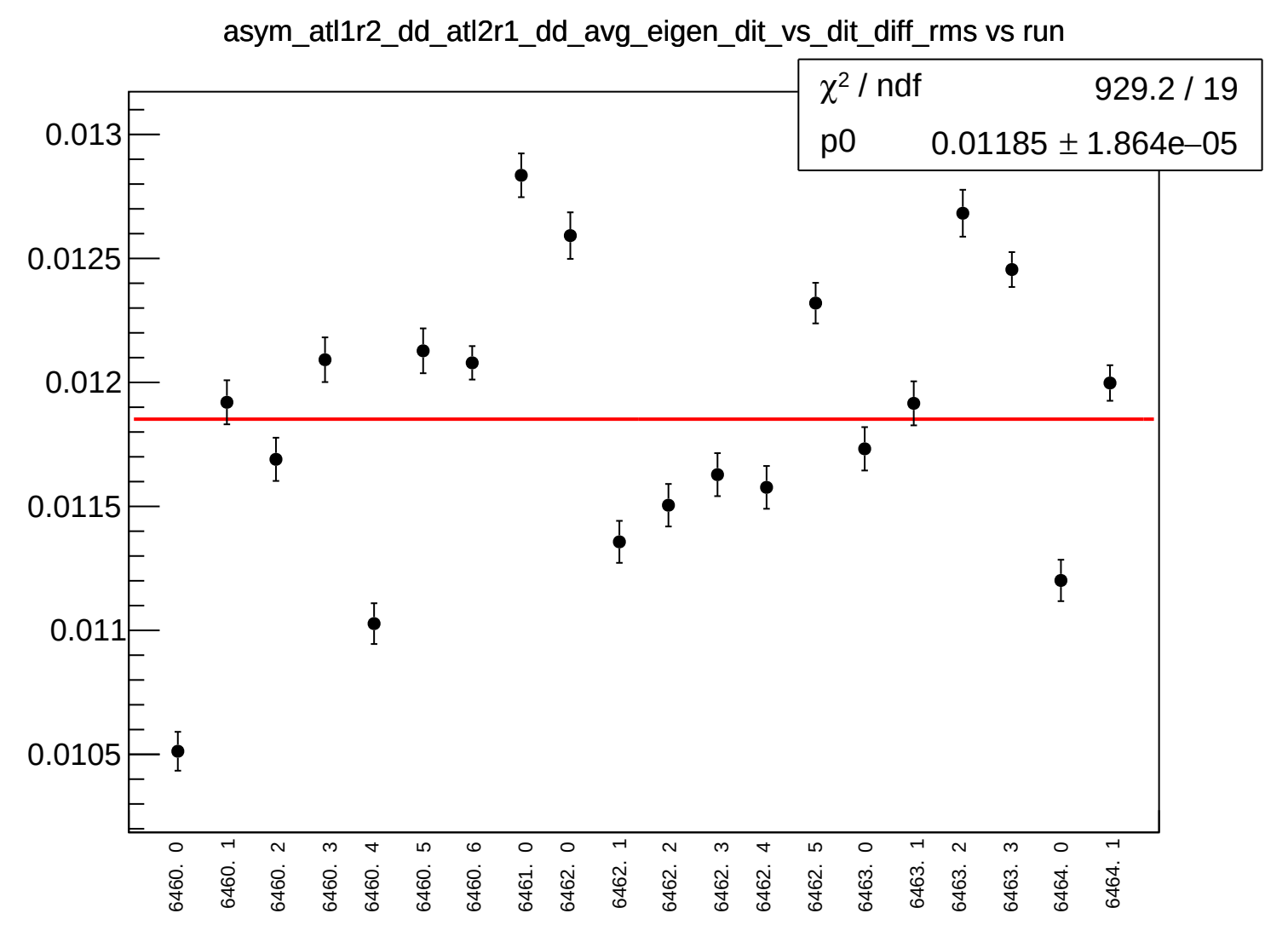


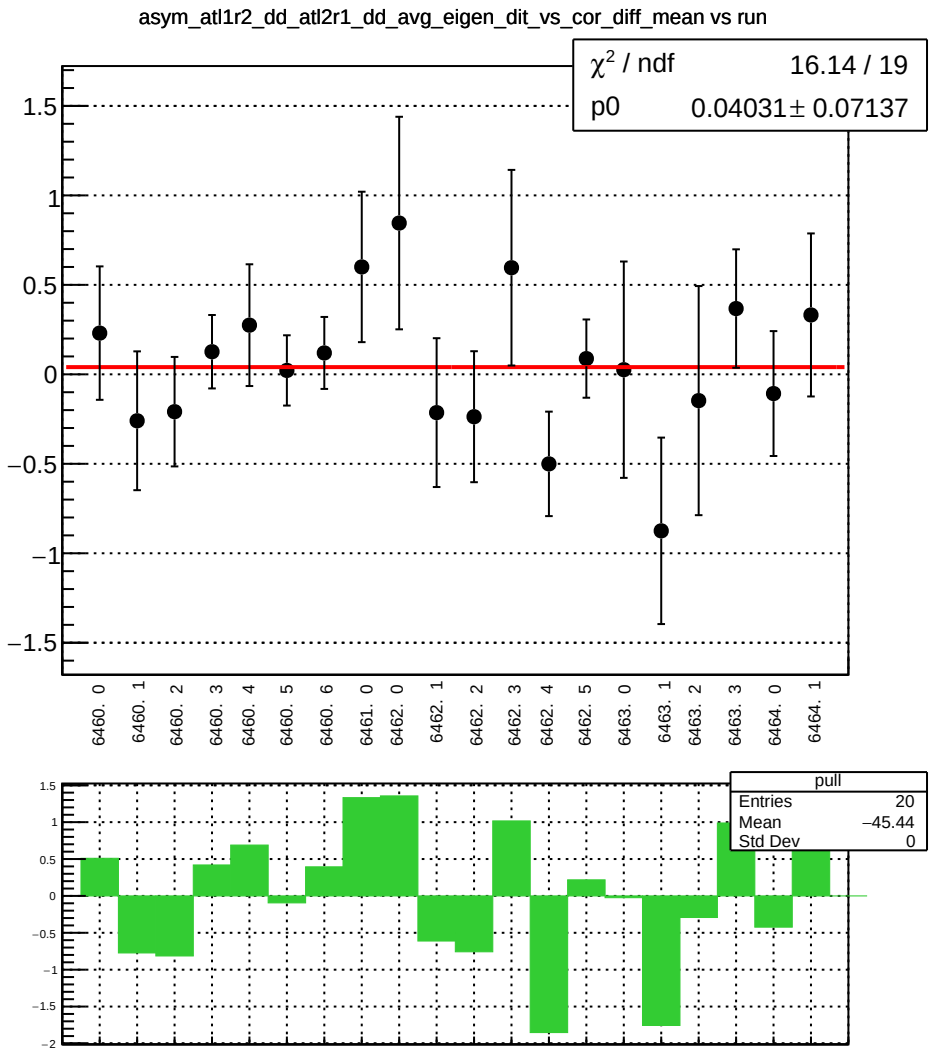


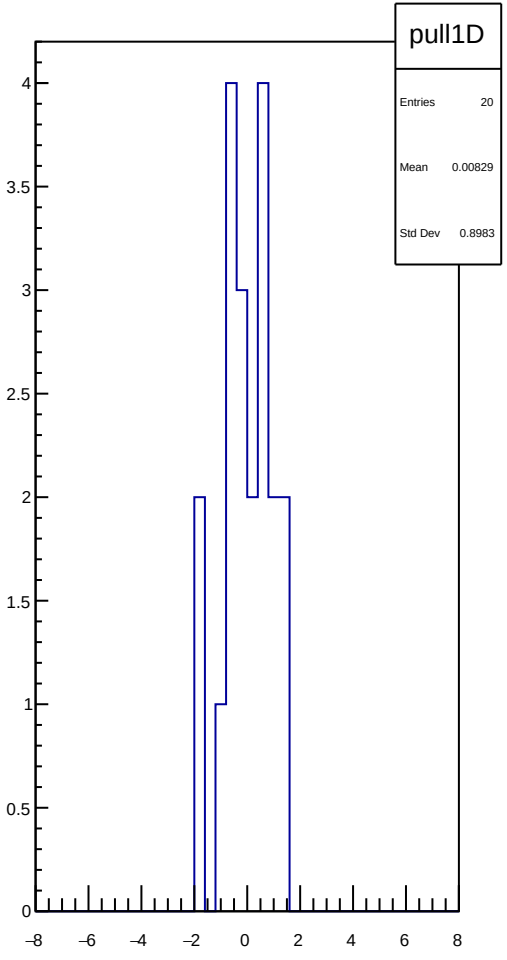

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.618e+04 / 19
p0 30.24 ± 0.05046
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

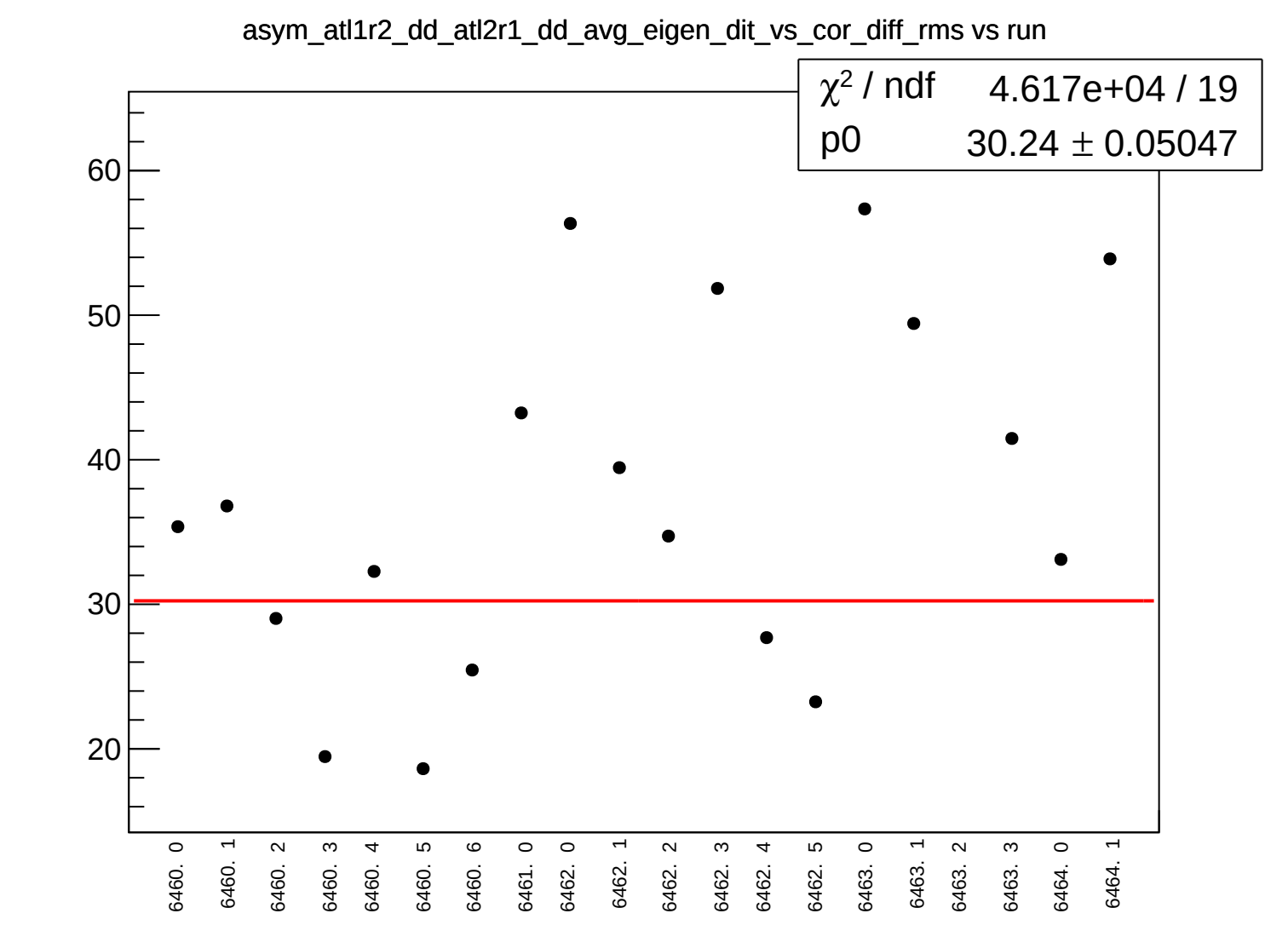

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 11.2 / 19
p0 −8.473e−06 ± 2.636e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 63.42
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

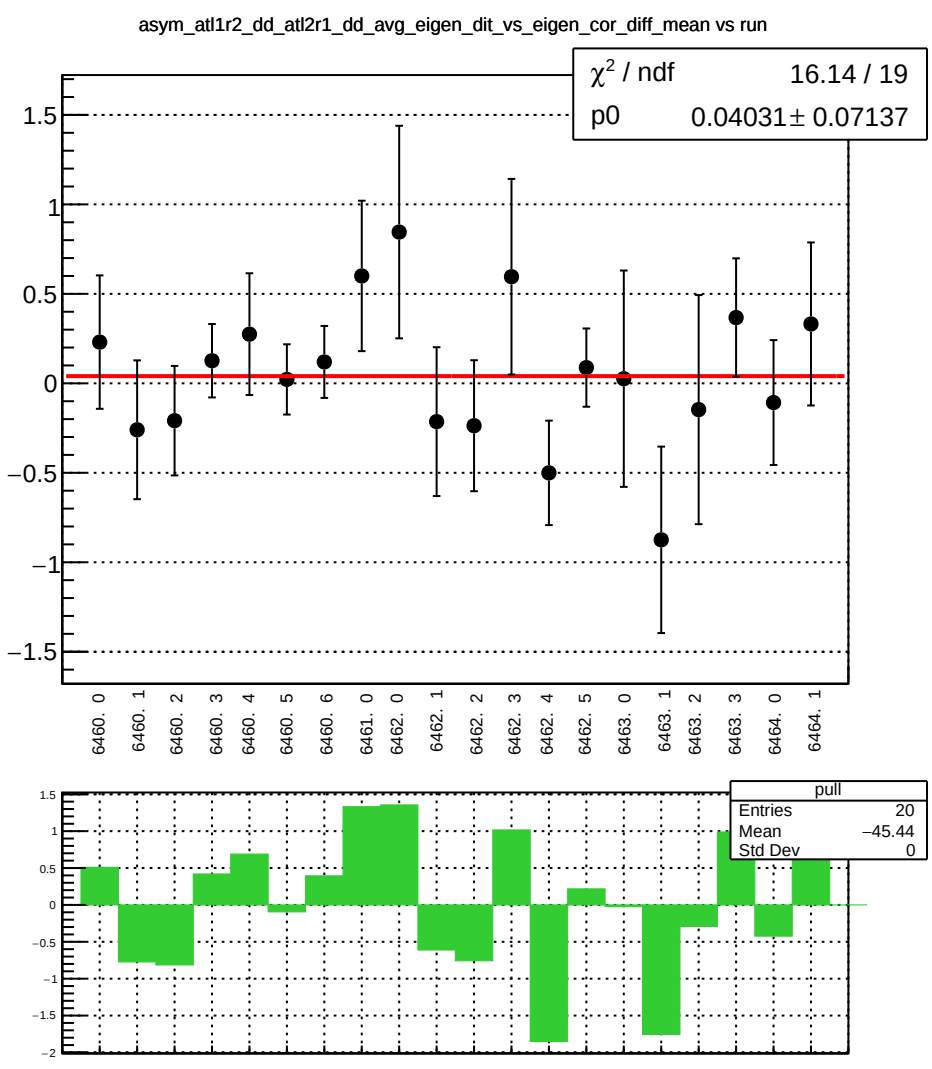

pull1D
Entries 20
Mean 0.01566
Std Dev 0.7481
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

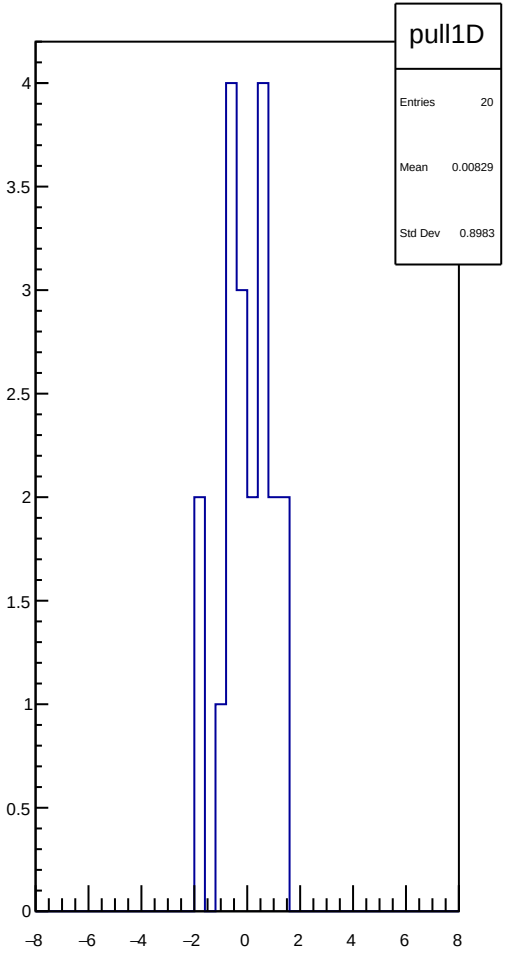

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 929.2 / 19
p0 0.01185 ± 1.864e–05
0.013
0.0125
0.012
0.0115
0.011
0.0105
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

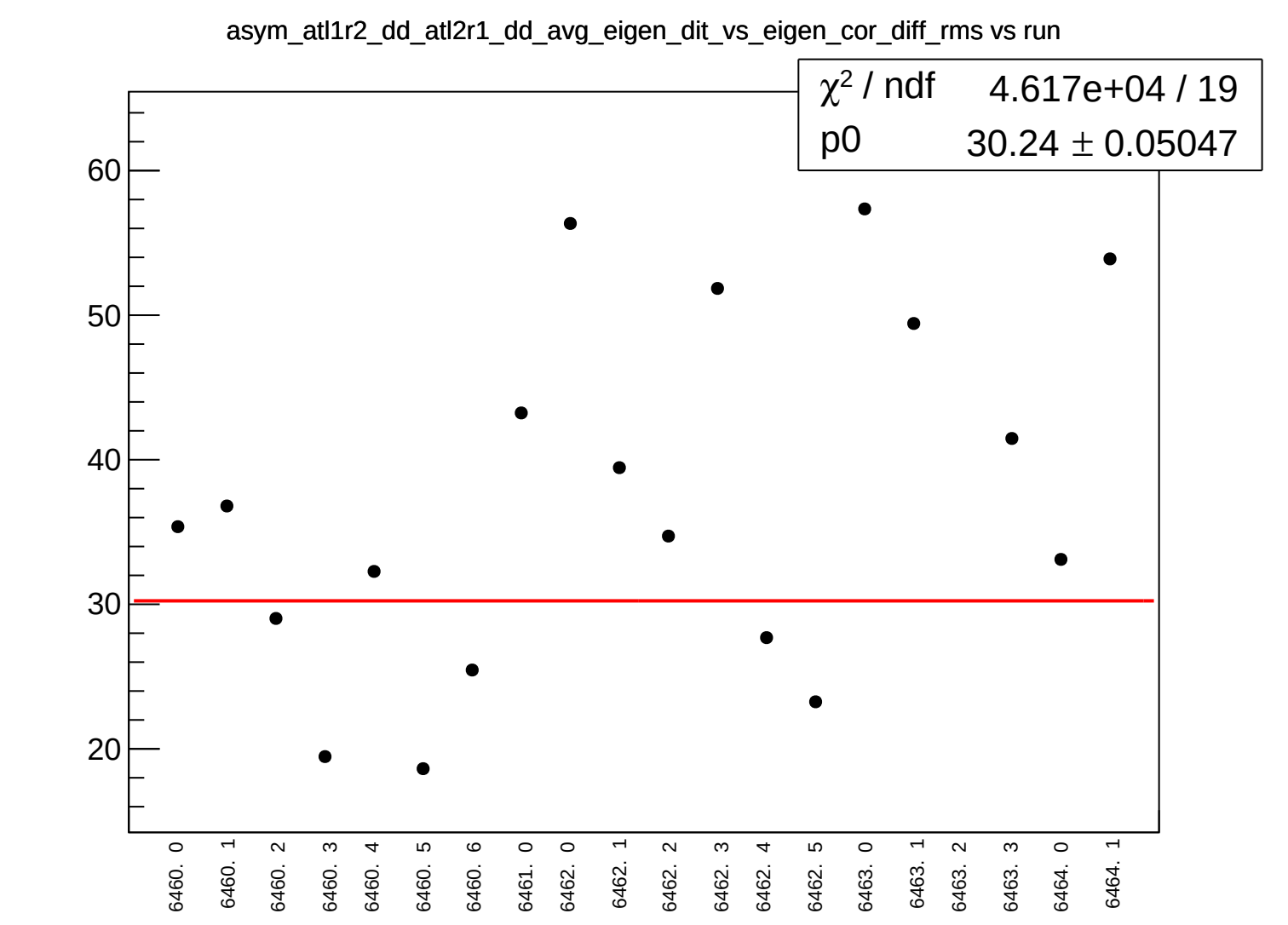

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.14 / 19
p0 0.04031 ± 0.07137
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

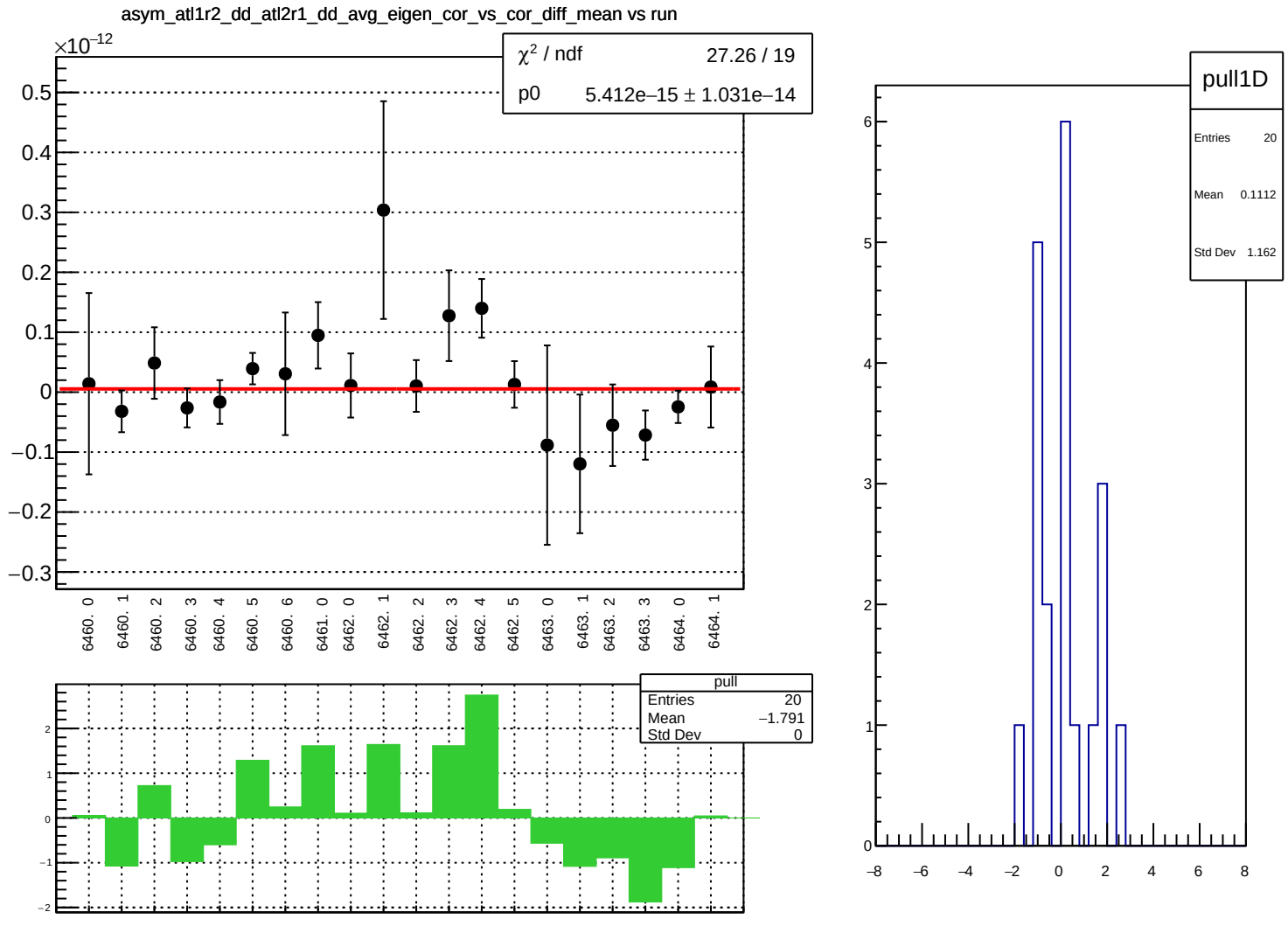

pull1D
Entries 20
Mean 0.00829
Std Dev 0.8983
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

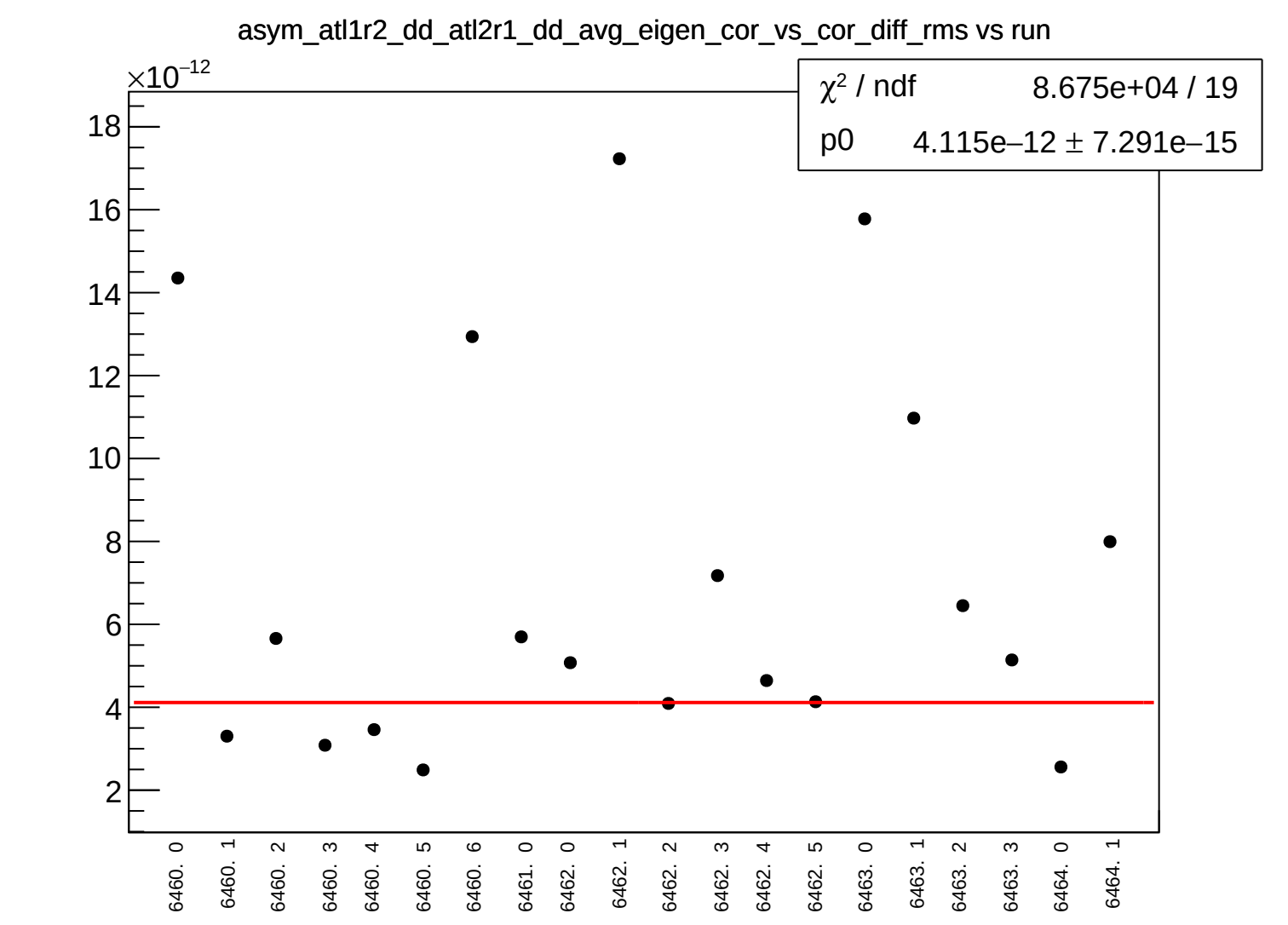

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.617e+04 / 19
p0 30.24 ± 0.05047
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

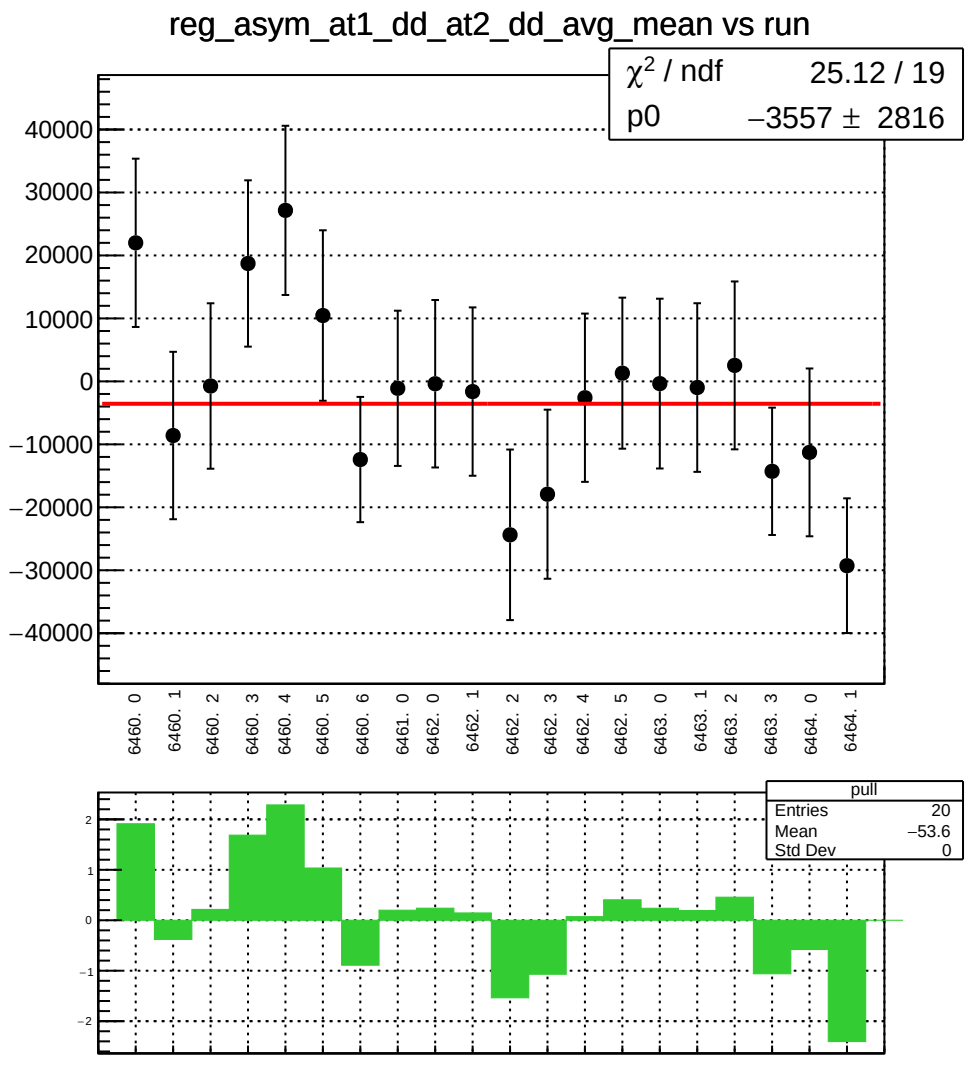

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.14 / 19
p0 0.04031 ± 0.07137
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

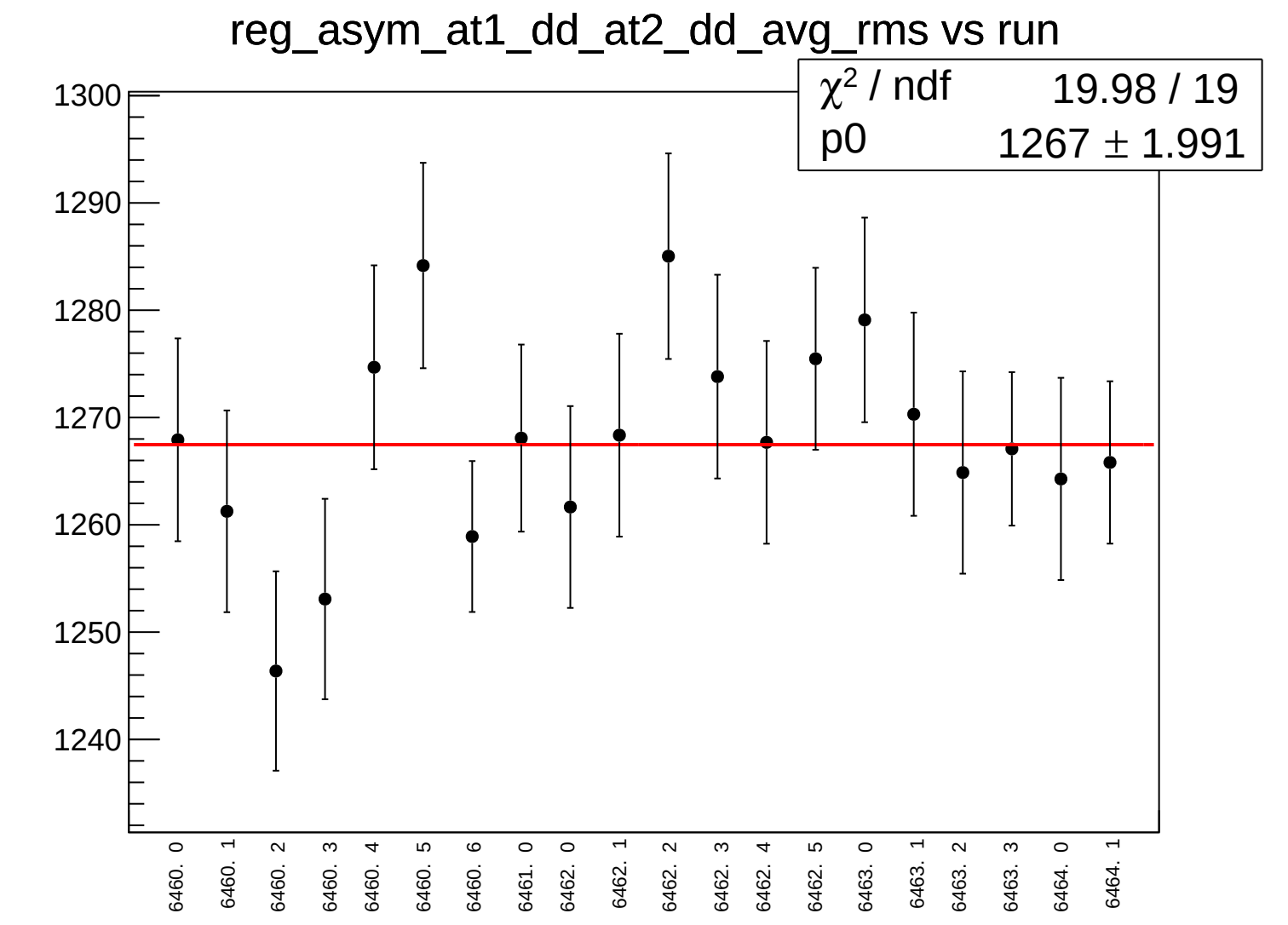

pull1D
Entries 20
Mean 0.00829
Std Dev 0.8983
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

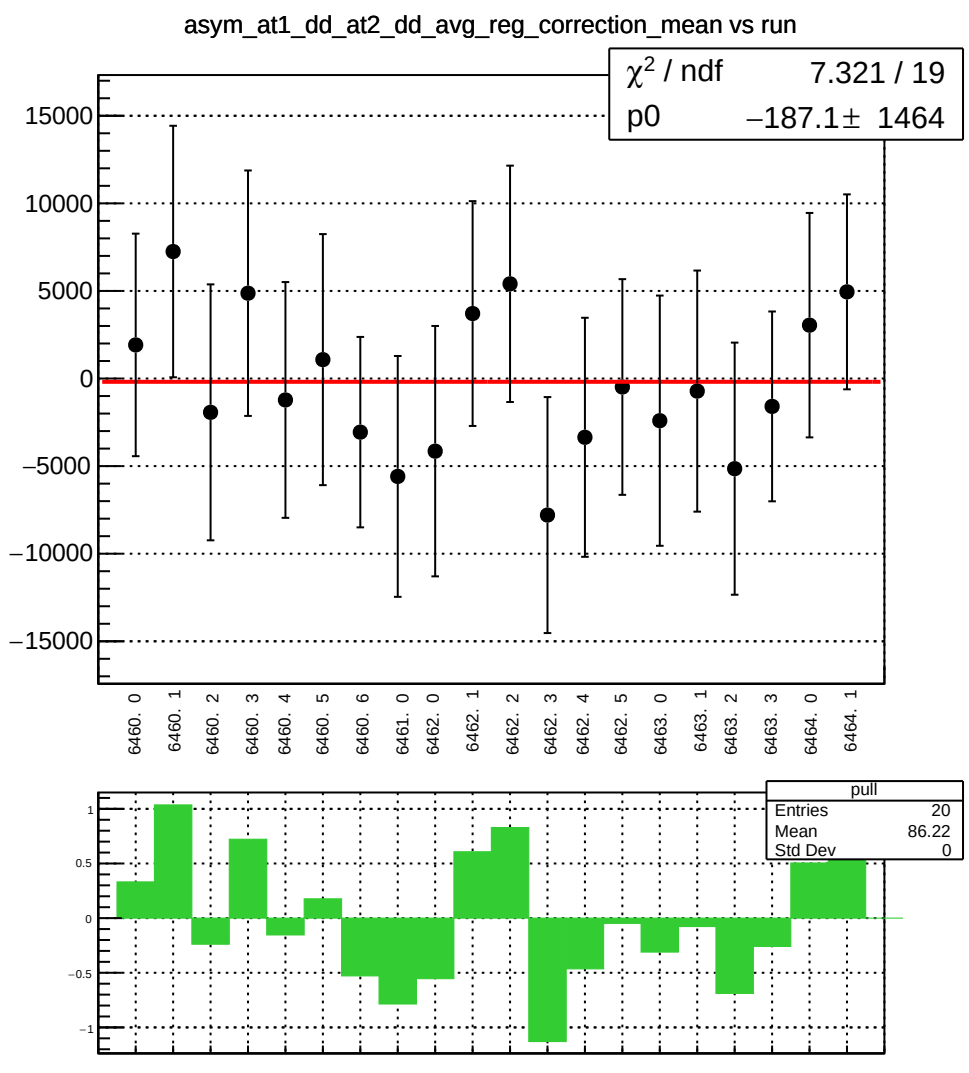

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.617e+04 / 19
p0 30.24 ± 0.05047
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

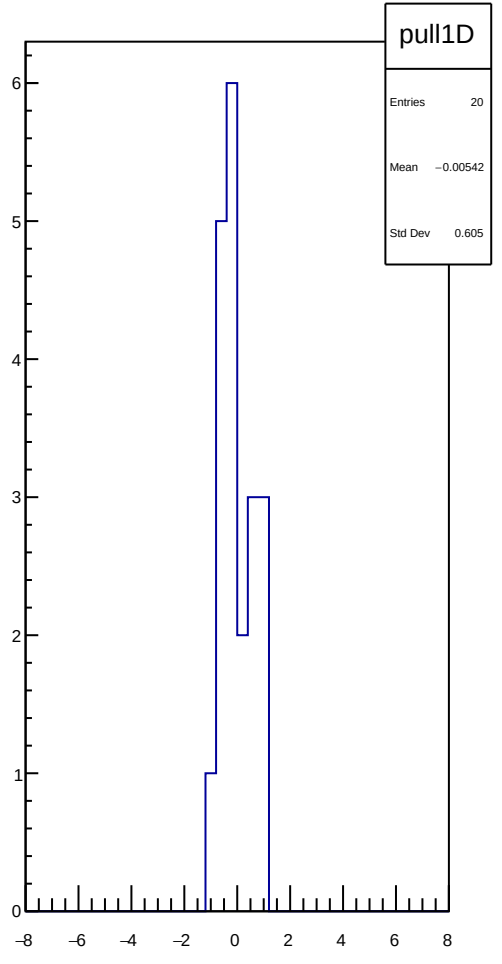

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 27.26 / 19
p0 5.412e−15 ± 1.031e−14
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.791
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.1112
Std Dev 1.162
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

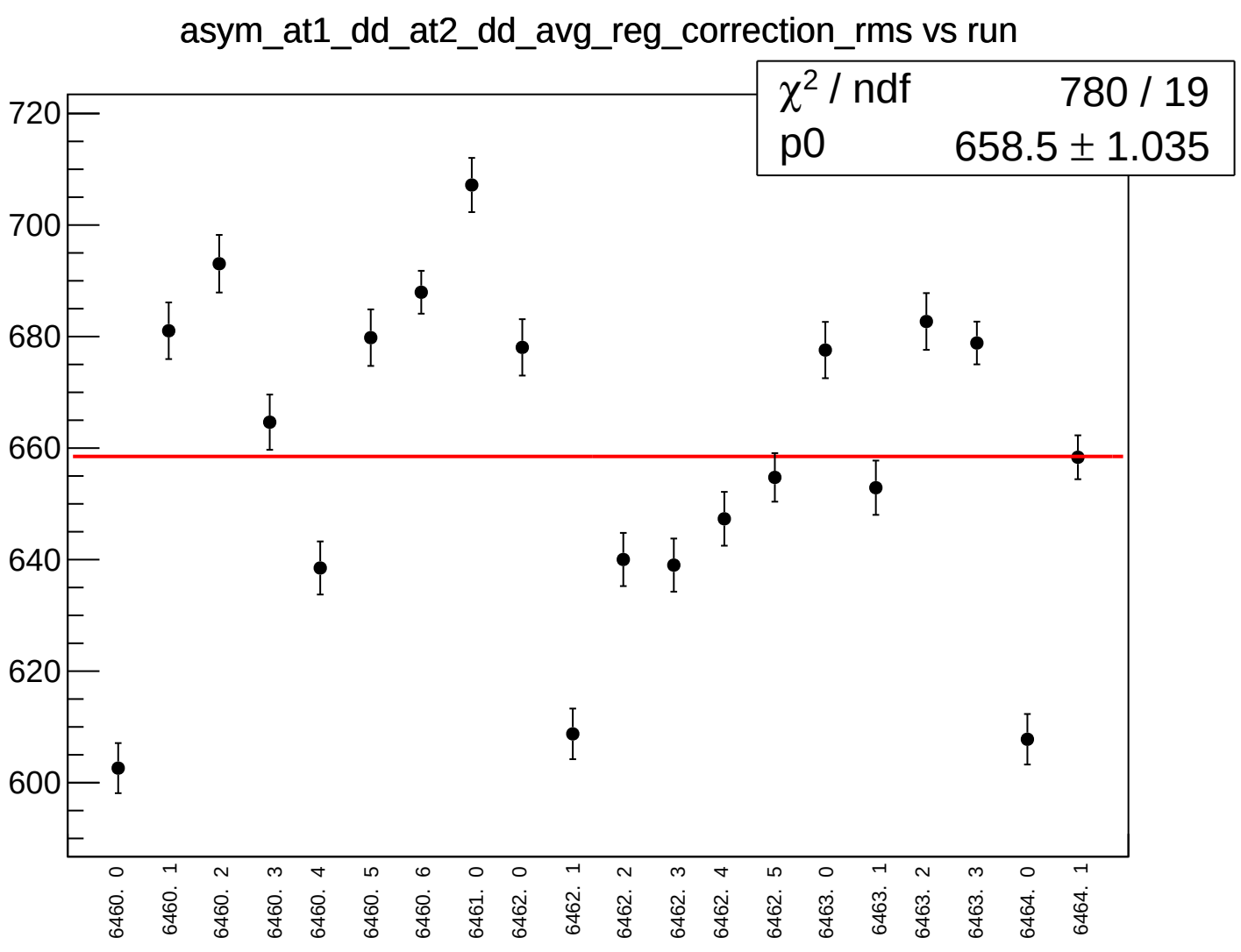

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.675e+04 / 19
p0 4.115e−12 ± 7.291e−15
18
16
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

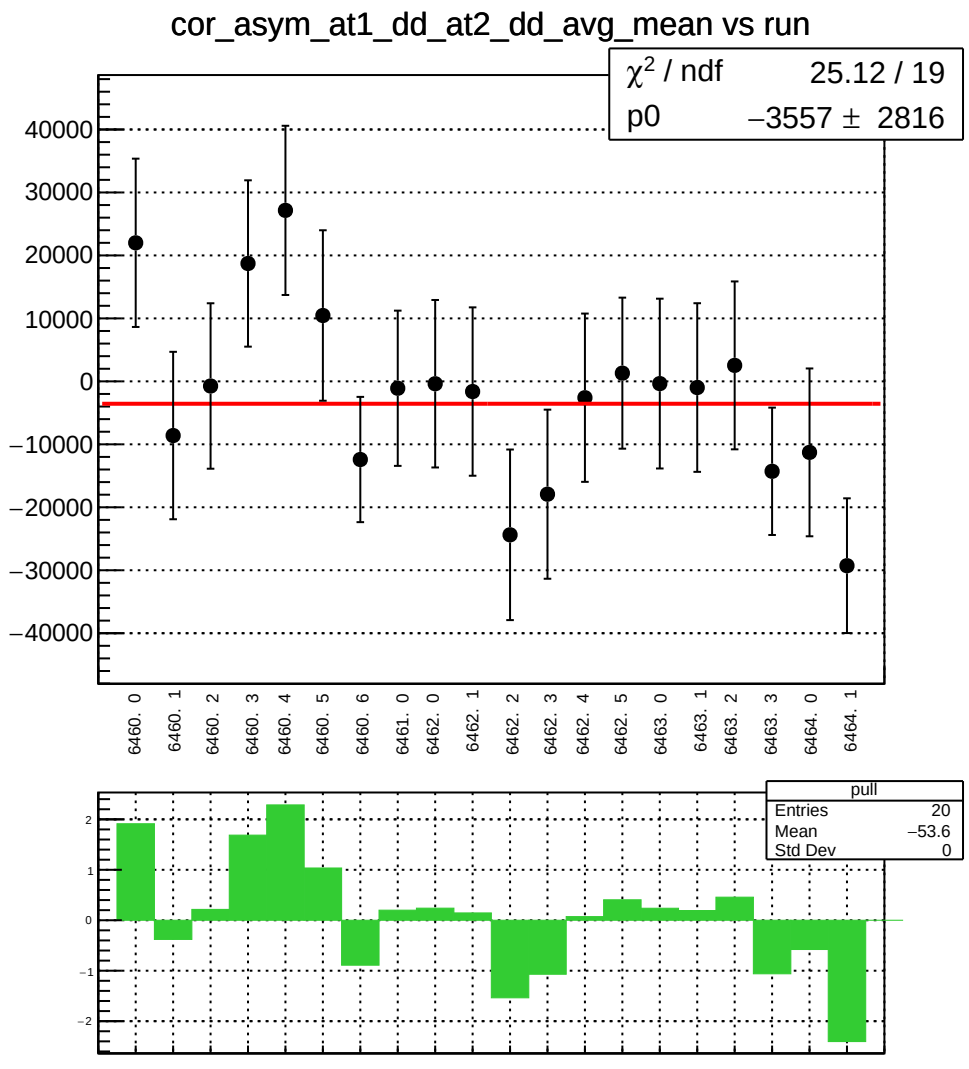

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 25.12 / 19
p0 −3557 ± 2816
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.05815
Std Dev 1.119
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

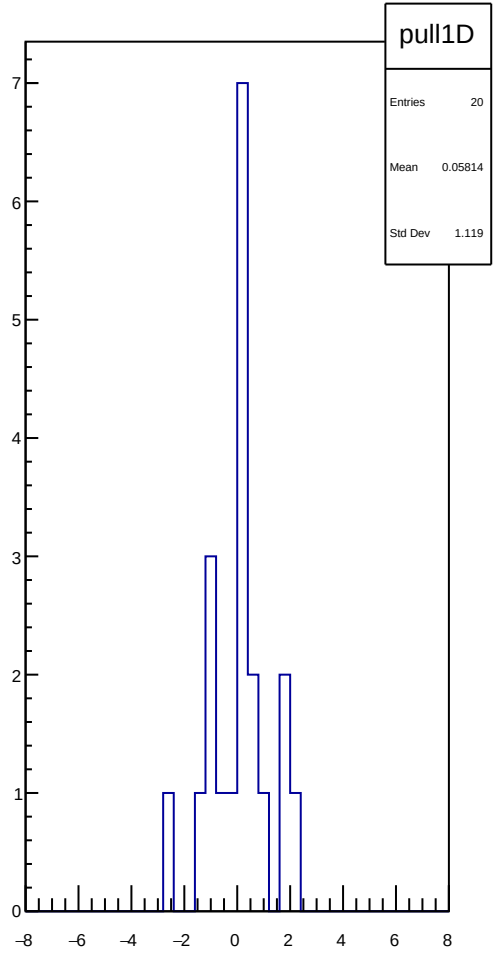

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 19.98 / 19
p0 1267 ± 1.991
1300
1290
1280
1270
1260
1250
1240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

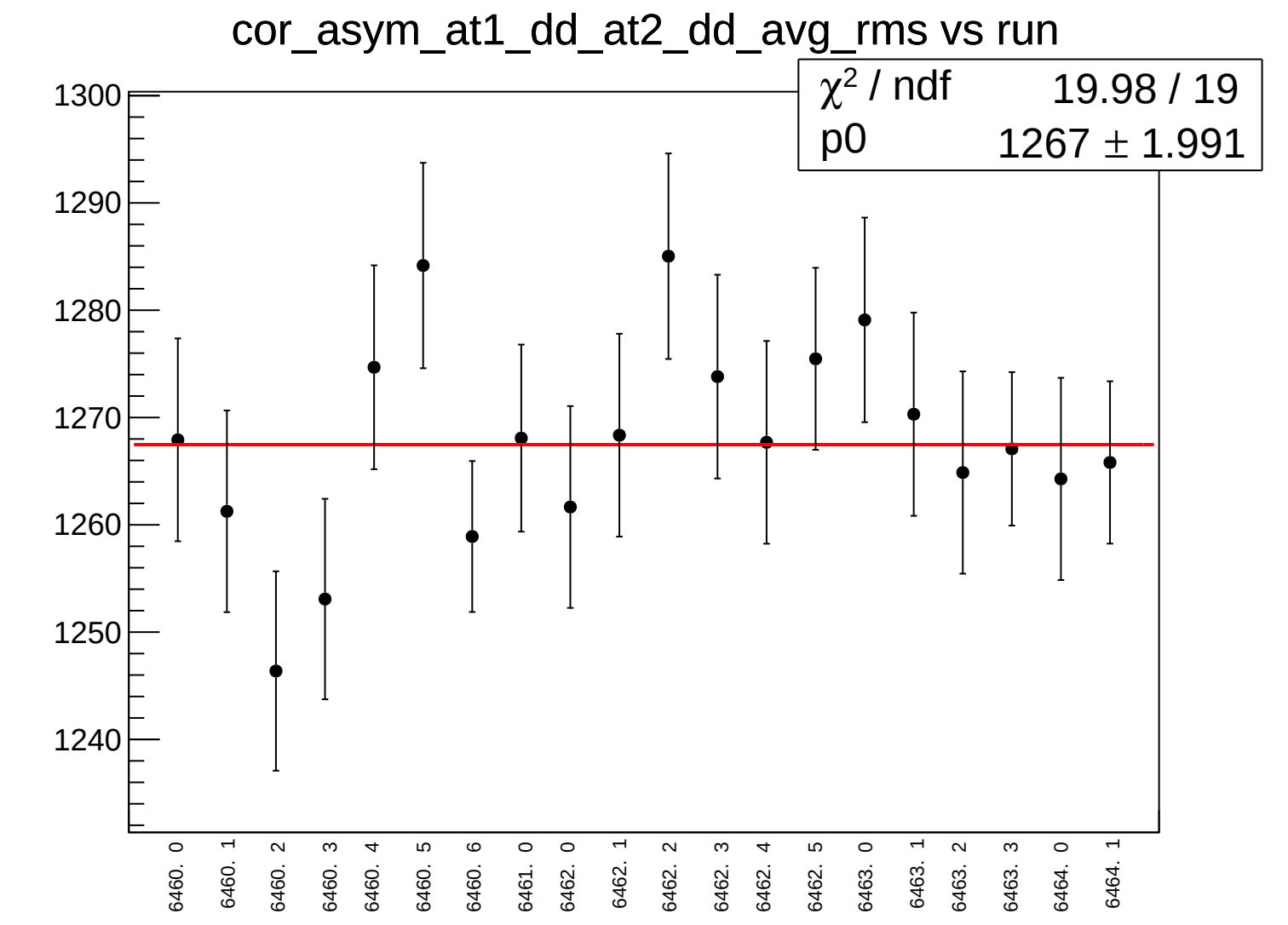

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 7.321 / 19
p0 −187.1± 1464
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.22
Std Dev 0
1
0.5
0
−0.5
−1

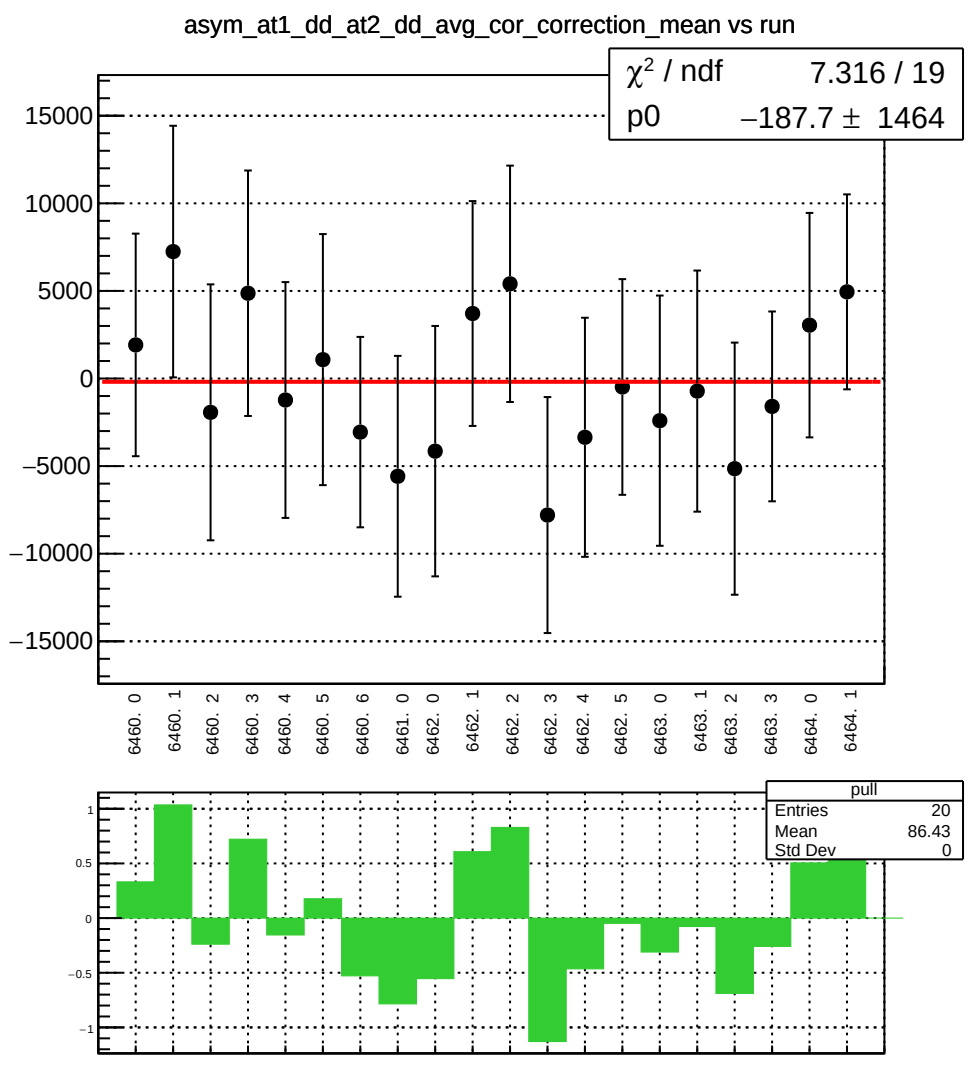

pull1D
Entries 20
Mean −0.00542
Std Dev 0.605
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

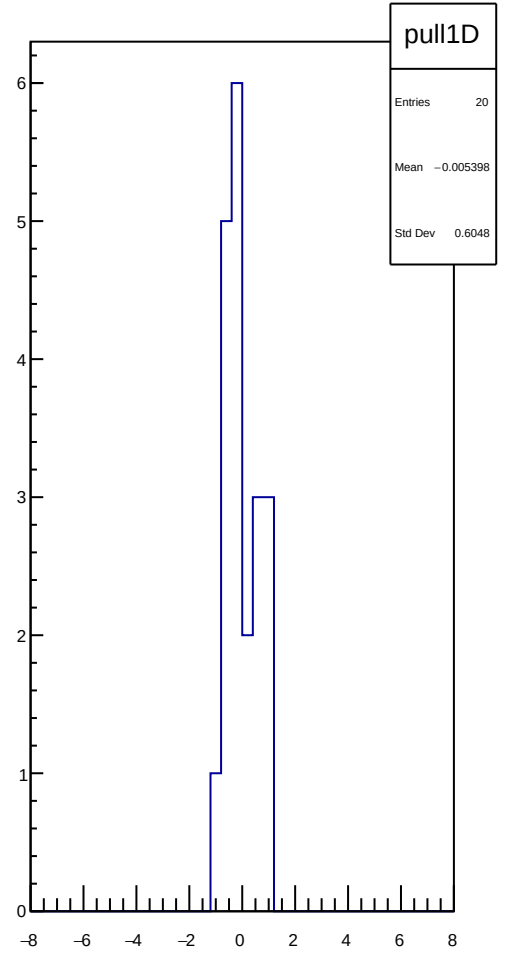

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 780 / 19
p0 658.5 ± 1.035
720
700
680
660
640
620
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

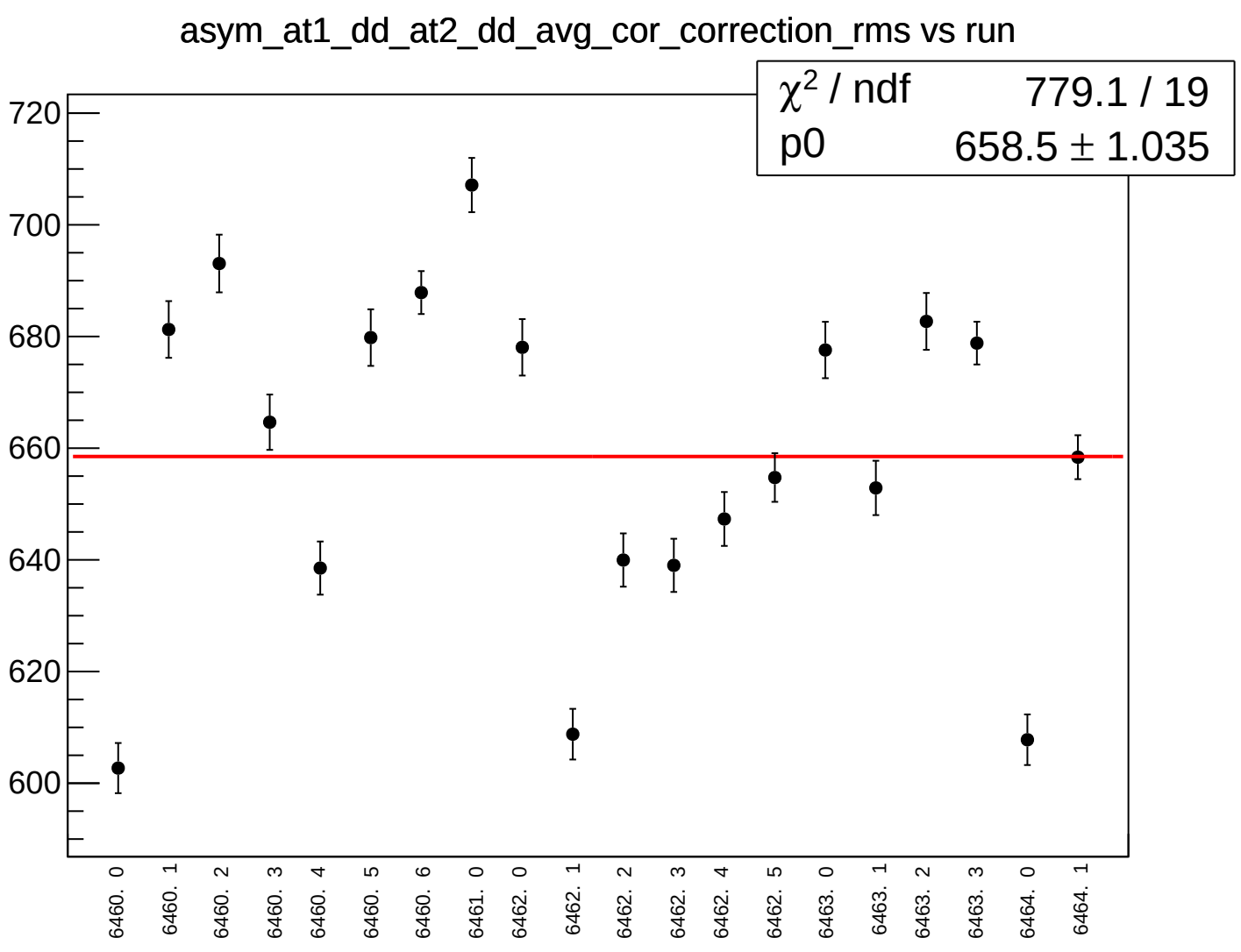

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 25.12 / 19
p0 −3557 ± 2816
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.6
Std Dev 0
2
1
0
−1
−2

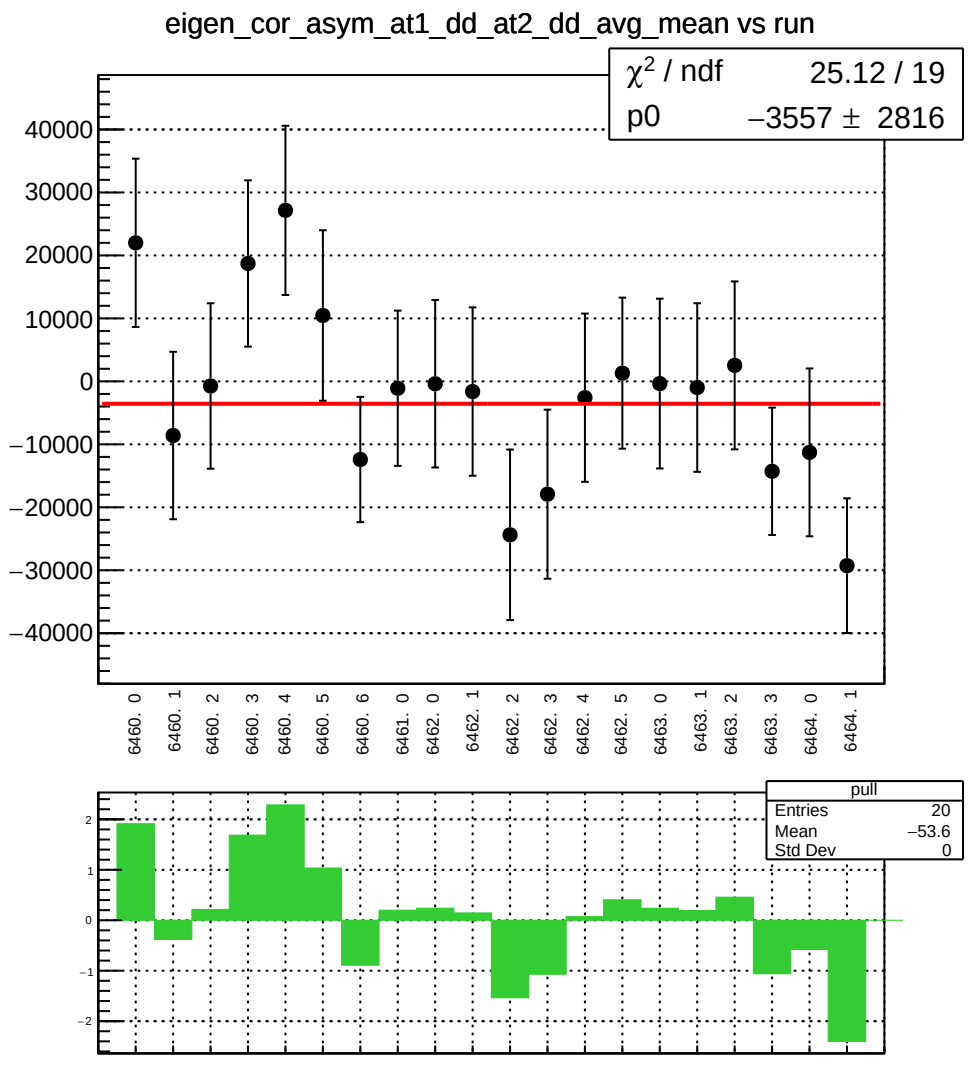

pull1D
Entries 20
Mean 0.05814
Std Dev 1.119
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

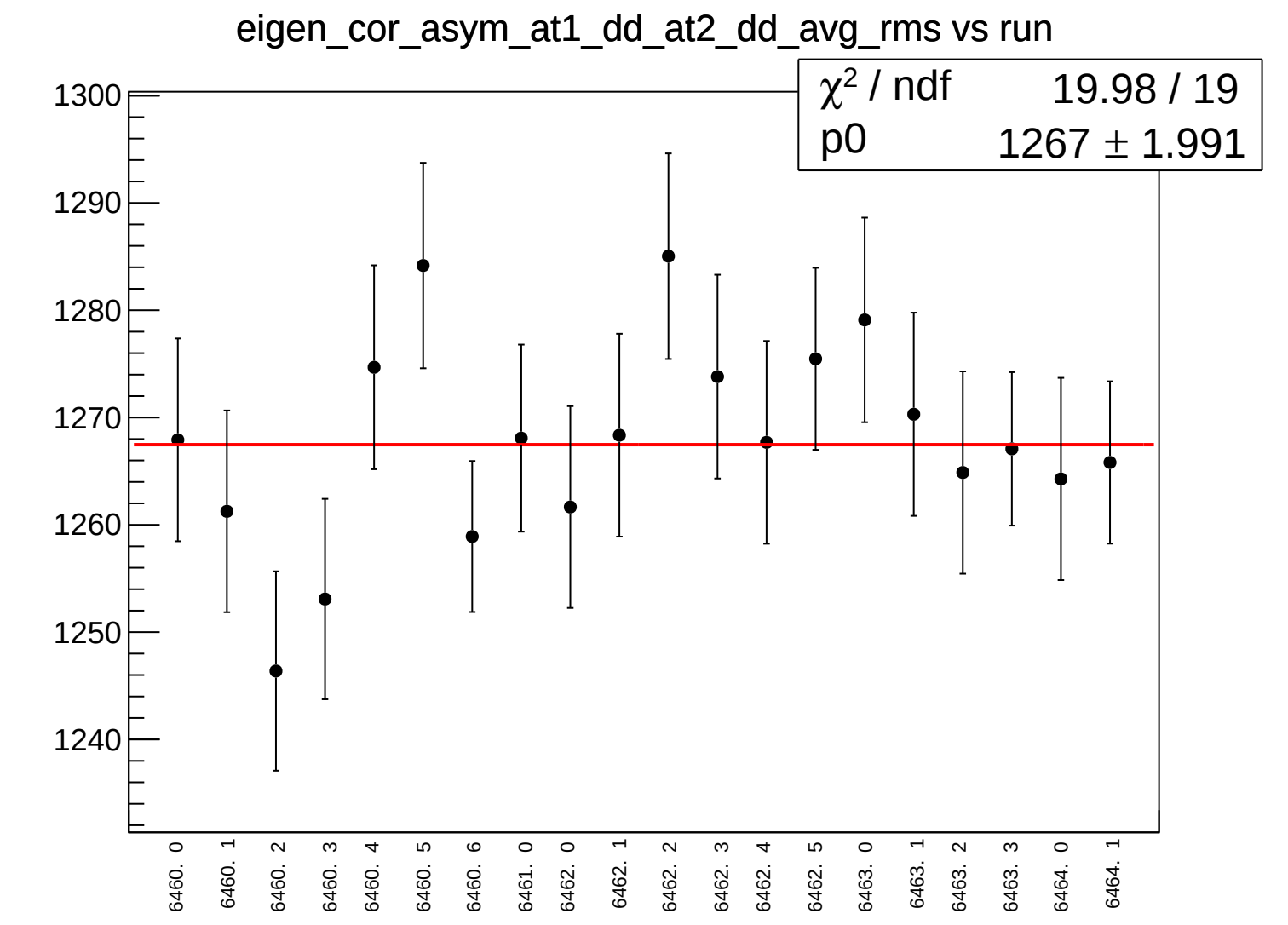

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 19.98 / 19
p0 1267 ± 1.991
1300
1290
1280
1270
1260
1250
1240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

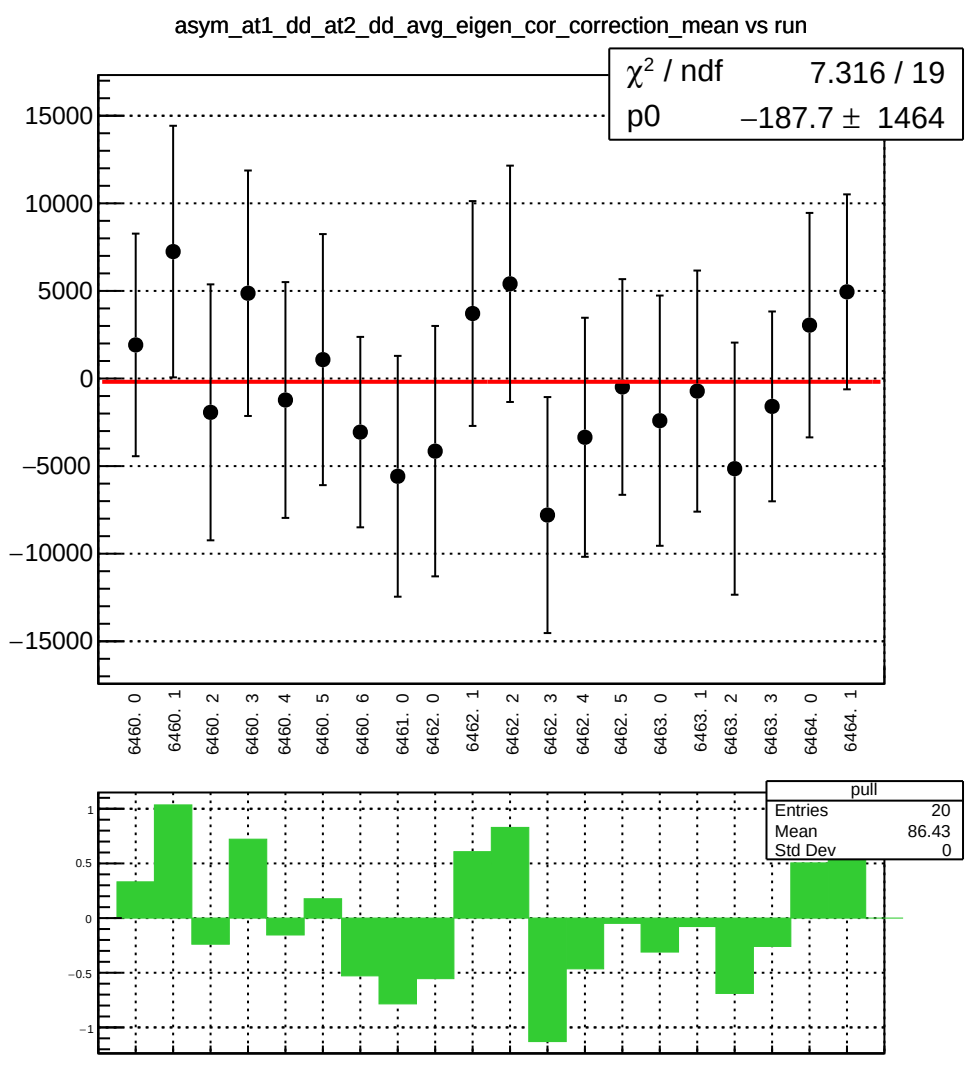

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 7.316 / 19
p0 −187.7 ± 1464
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.43
Std Dev 0
1
0.5
0
−0.5
−1

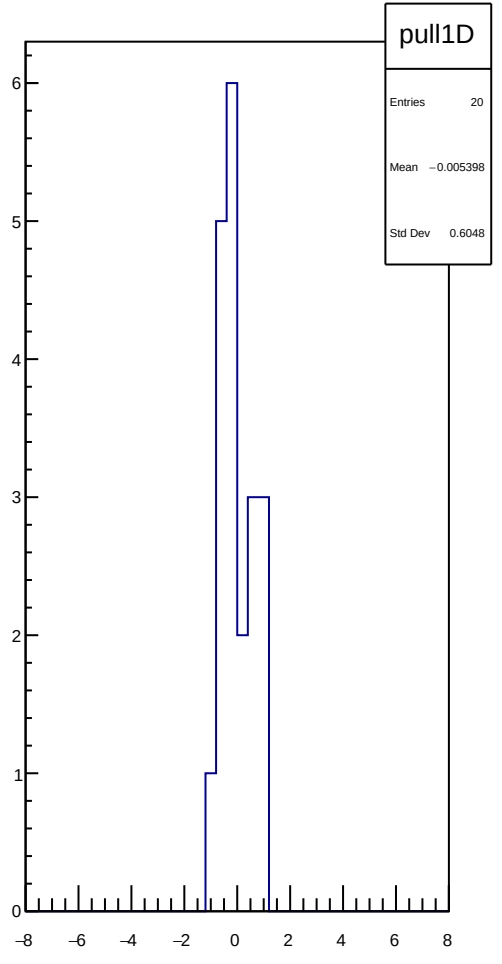

pull1D
Entries 20
Mean −0.005398
Std Dev 0.6048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

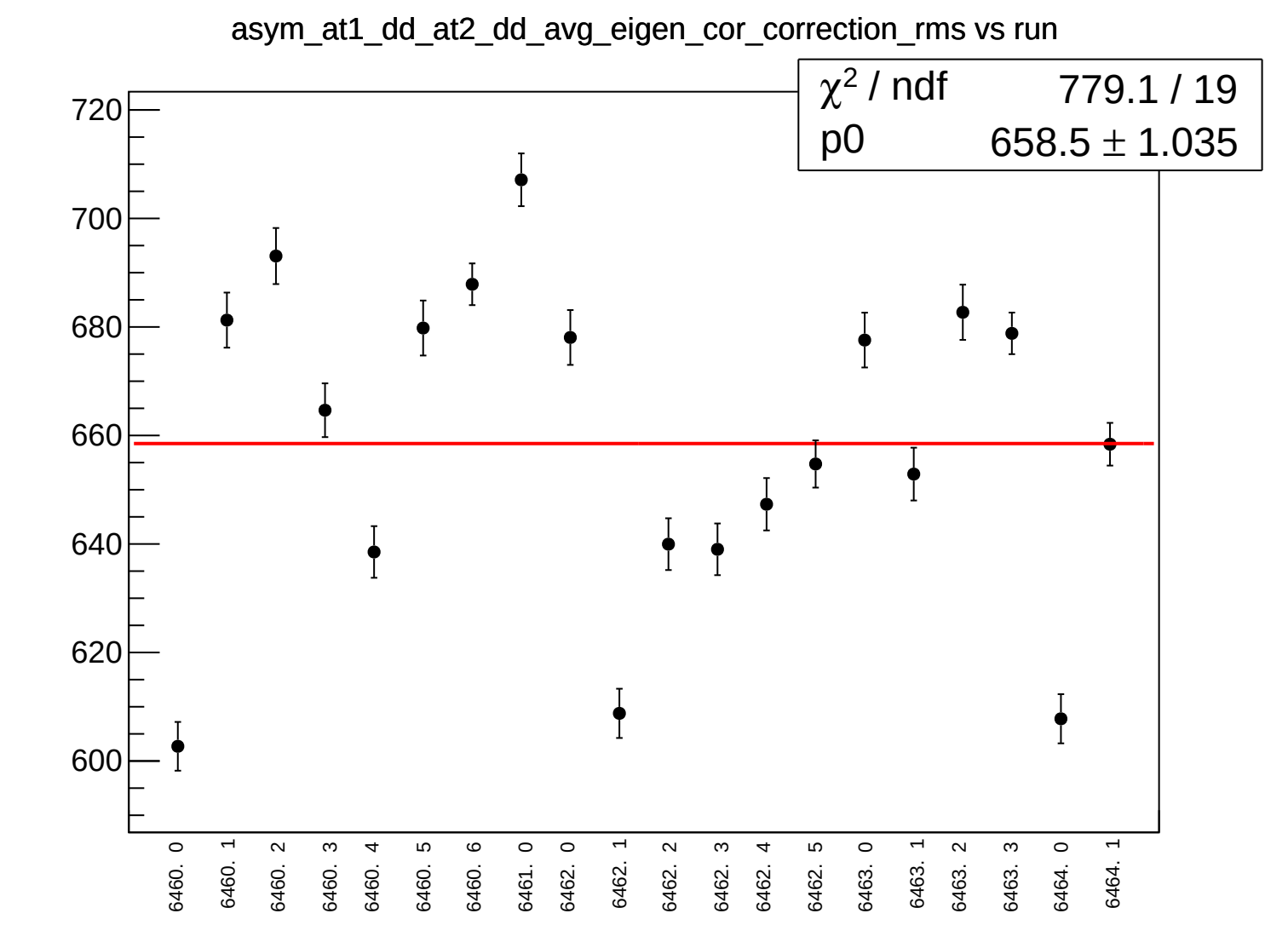

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 779.1 / 19
p0 658.5 ± 1.035
720
700
680
660
640
620
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

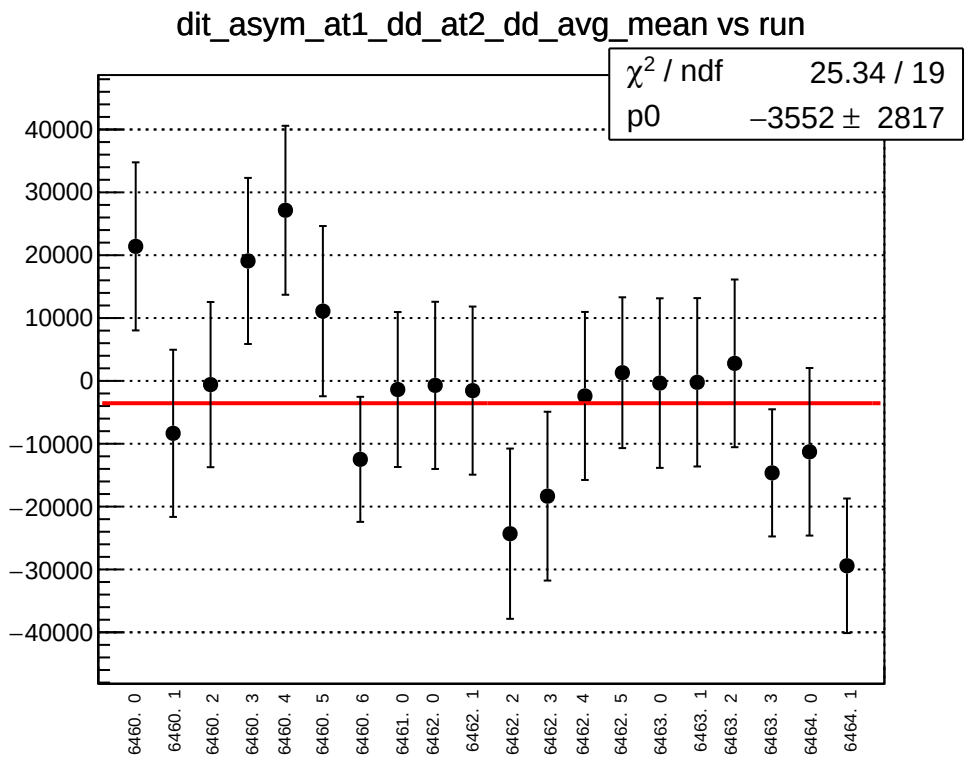

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 25.12 / 19
p0 −3557 ± 2816
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.05814
Std Dev 1.119
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

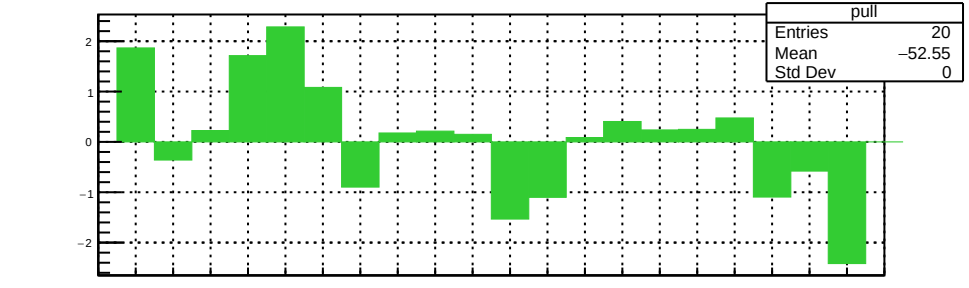

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 19.98 / 19
p0 1267 ± 1.991
1300
1290
1280
1270
1260
1250
1240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

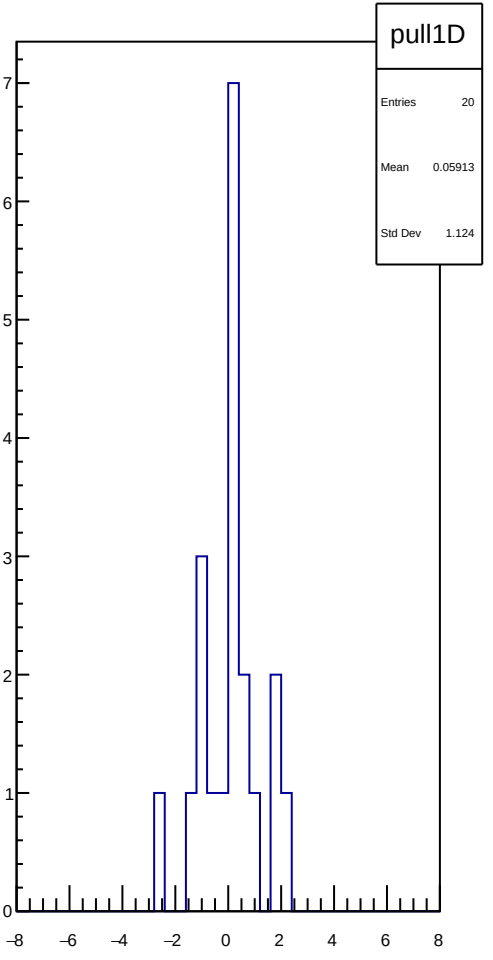

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 7.316 / 19
p0 −187.7 ± 1464
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.43
Std Dev 0
1
0.5
0
−0.5
−1

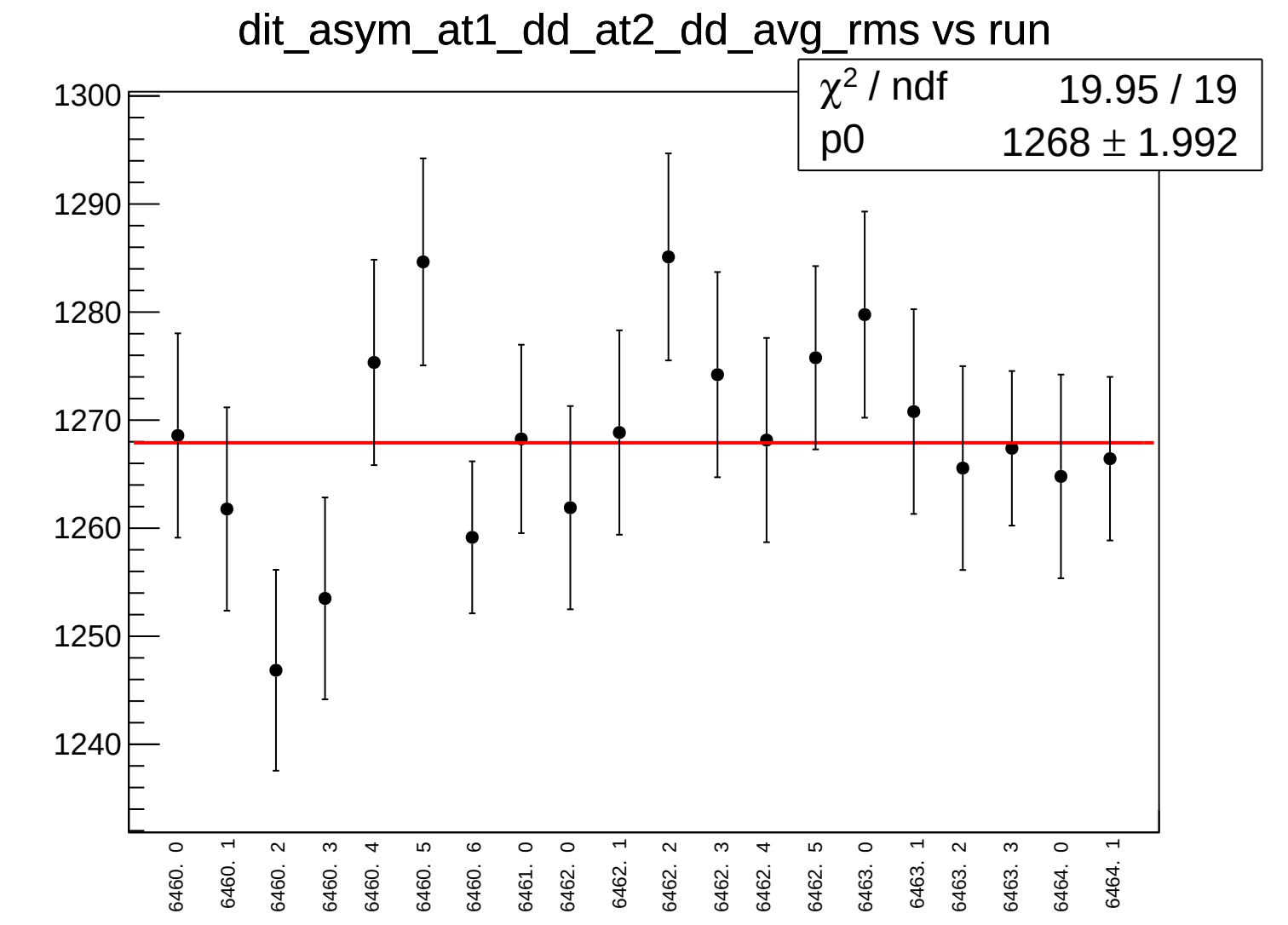

pull1D
Entries 20
Mean −0.005398
Std Dev 0.6048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

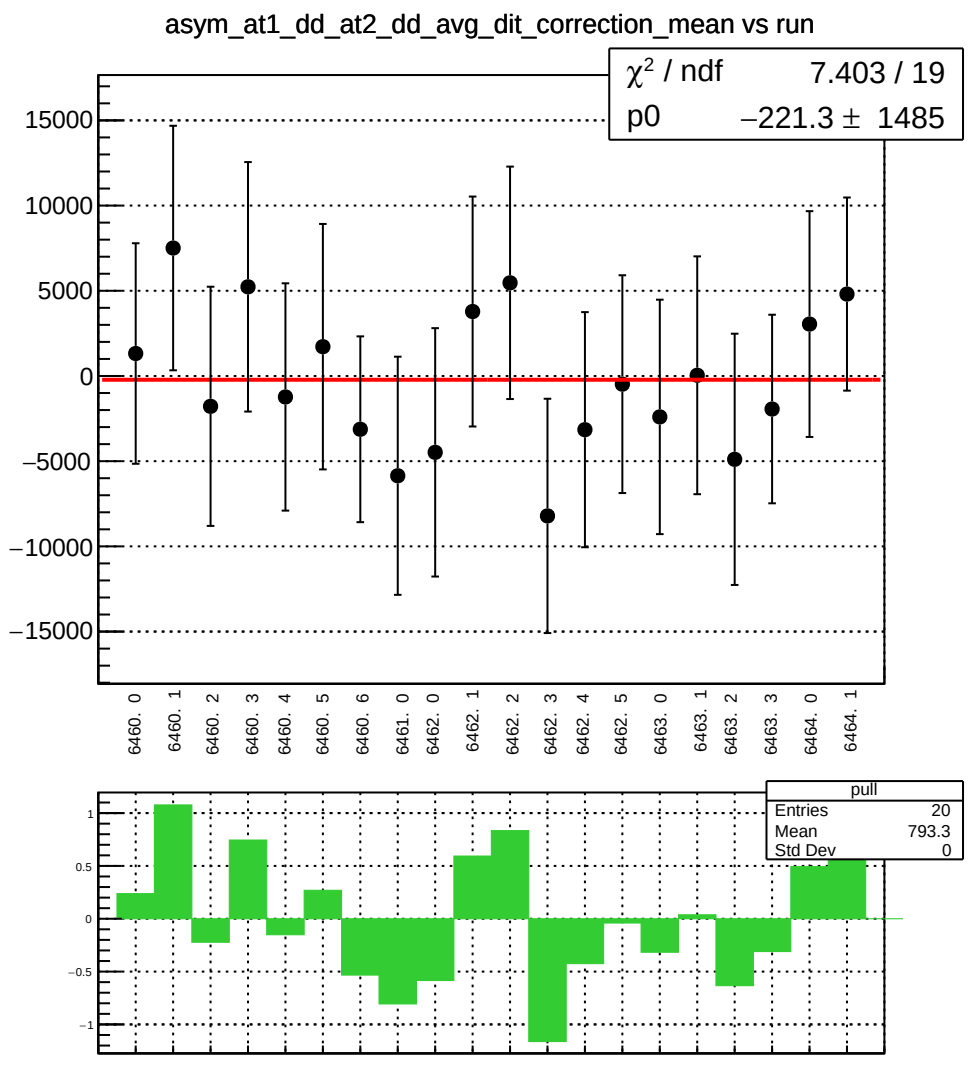

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 779.1 / 19
p0 658.5 ± 1.035
720
700
680
660
640
620
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

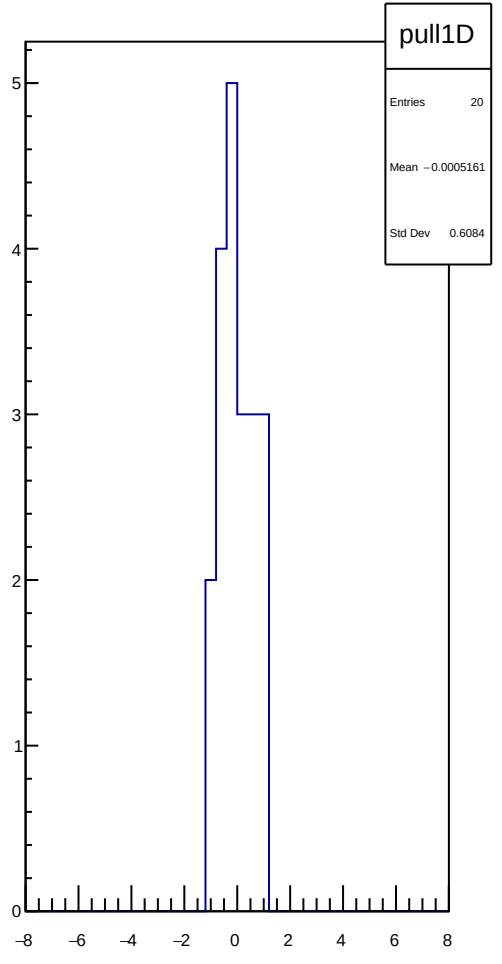

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 25.34 / 19
p0 −3552 ± 2817
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

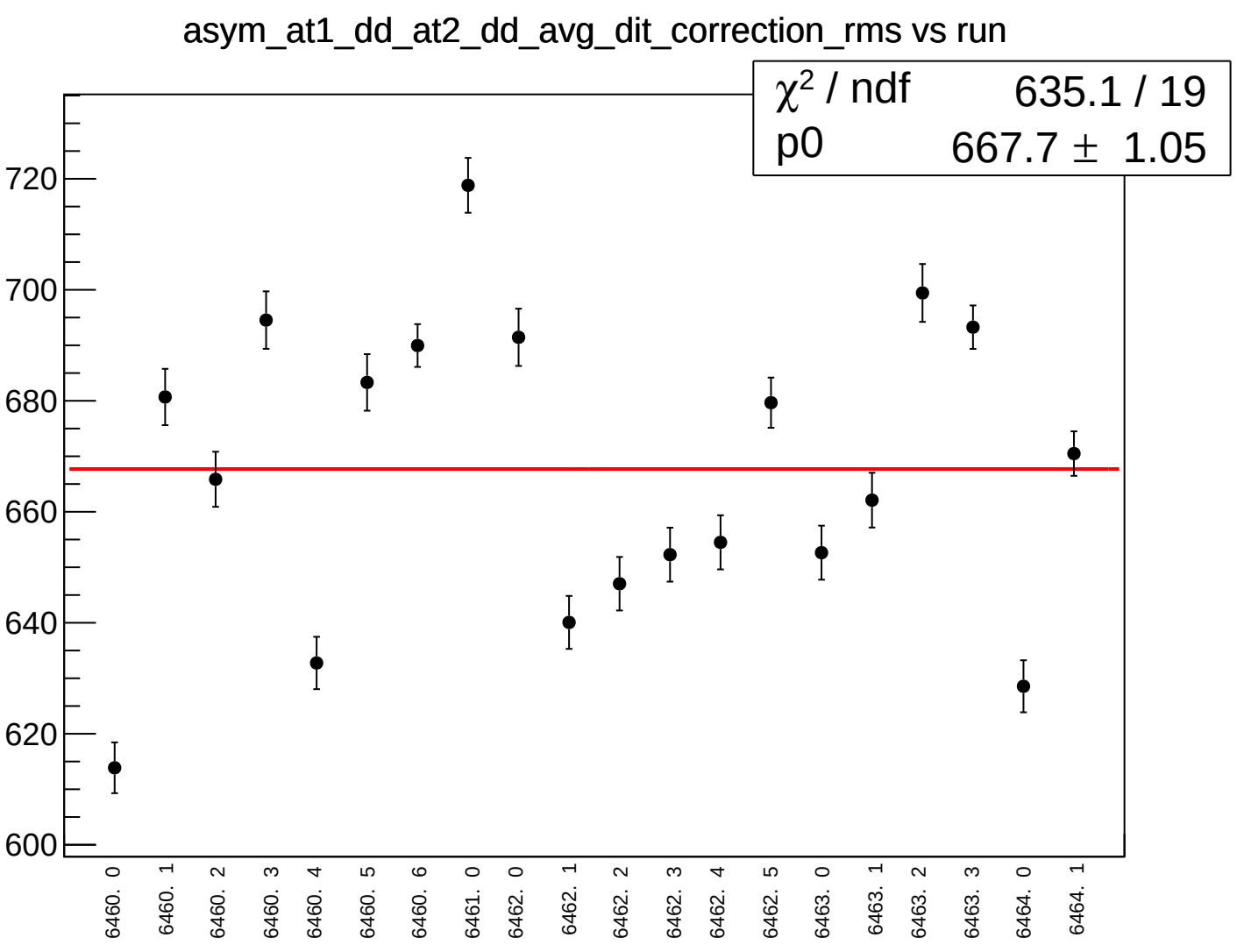

pull
Entries 20
Mean −52.55
Std Dev 0
2
1
0
−1
−2

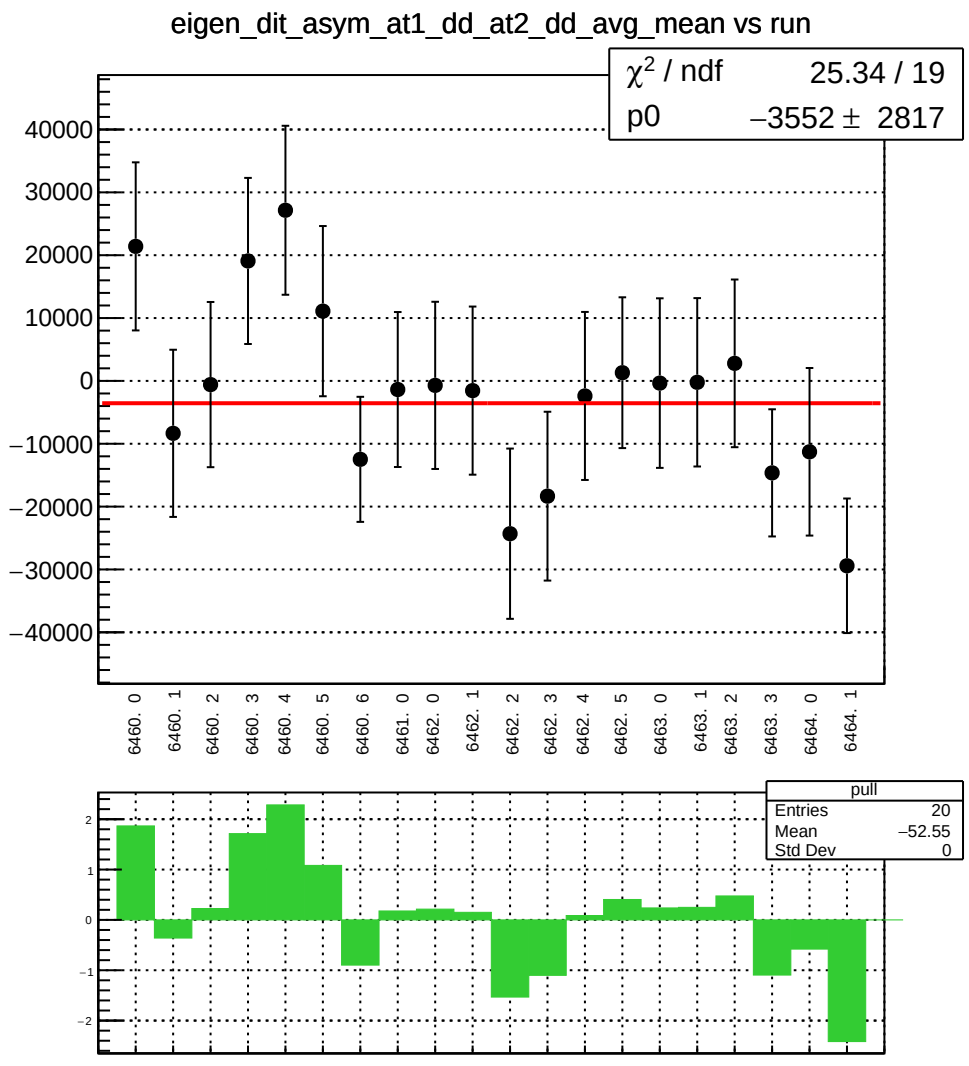

pull1D
Entries 20
Mean 0.05913
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

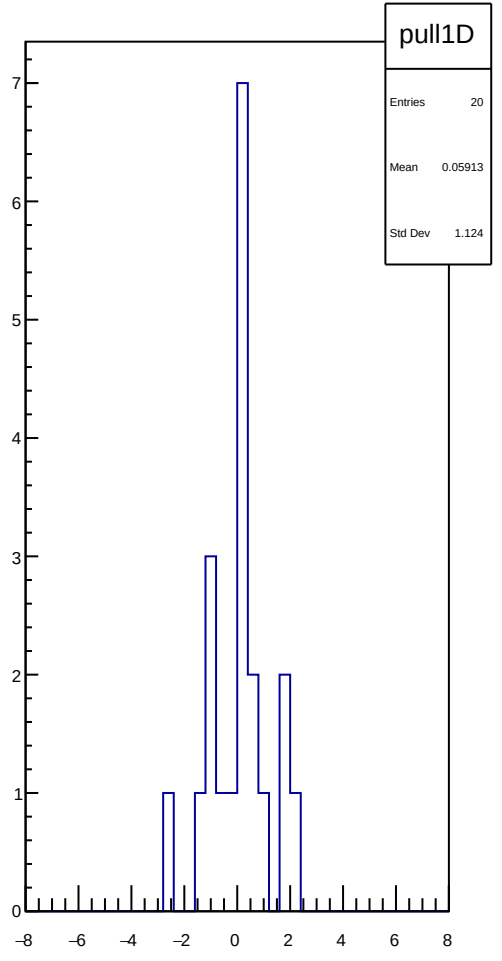

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 19.95 / 19
p0 1268 ± 1.992
1300
1290
1280
1270
1260
1250
1240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

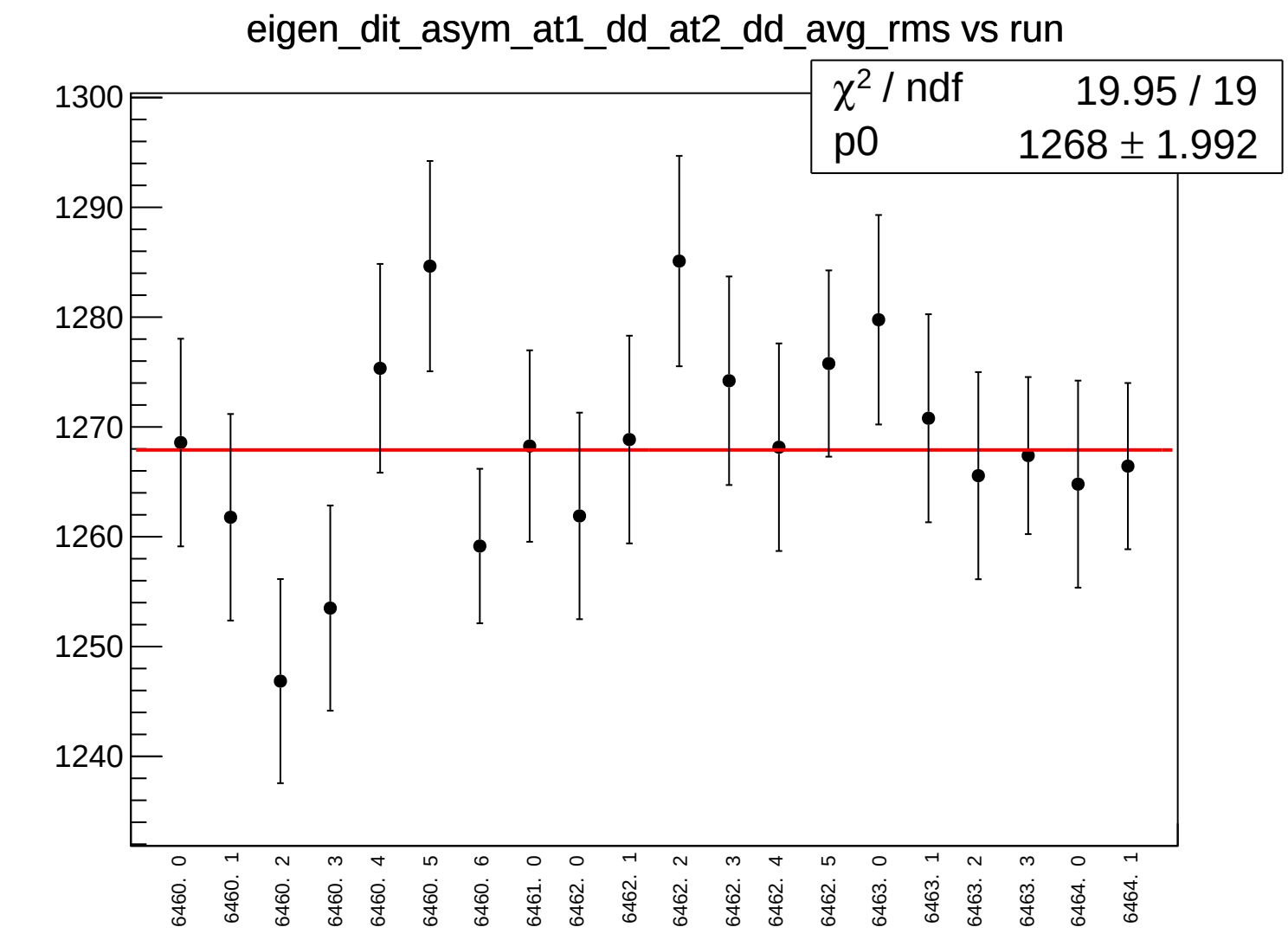

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 7.403 / 19
p0 −221.3 ± 1485
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 793.3
Std Dev 0
1
0.5
0
−0.5
−1

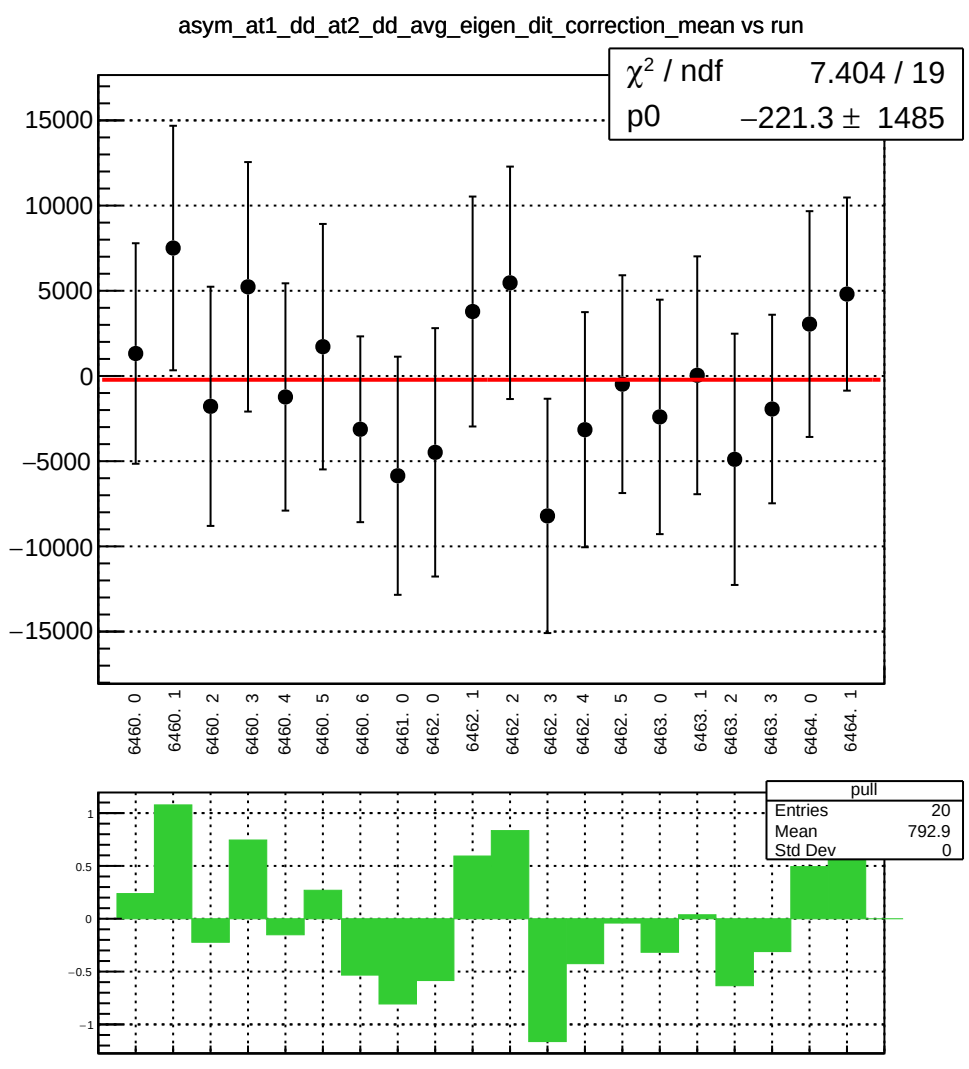

pull1D
Entries 20
Mean −0.0005161
Std Dev 0.6084
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

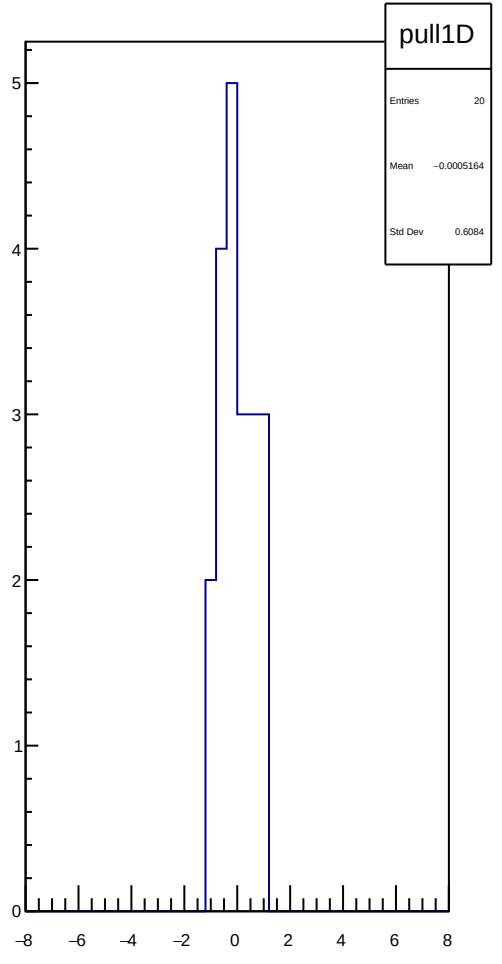

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 635.1 / 19
p0 667.7 ± 1.05
720
700
680
660
640
620
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

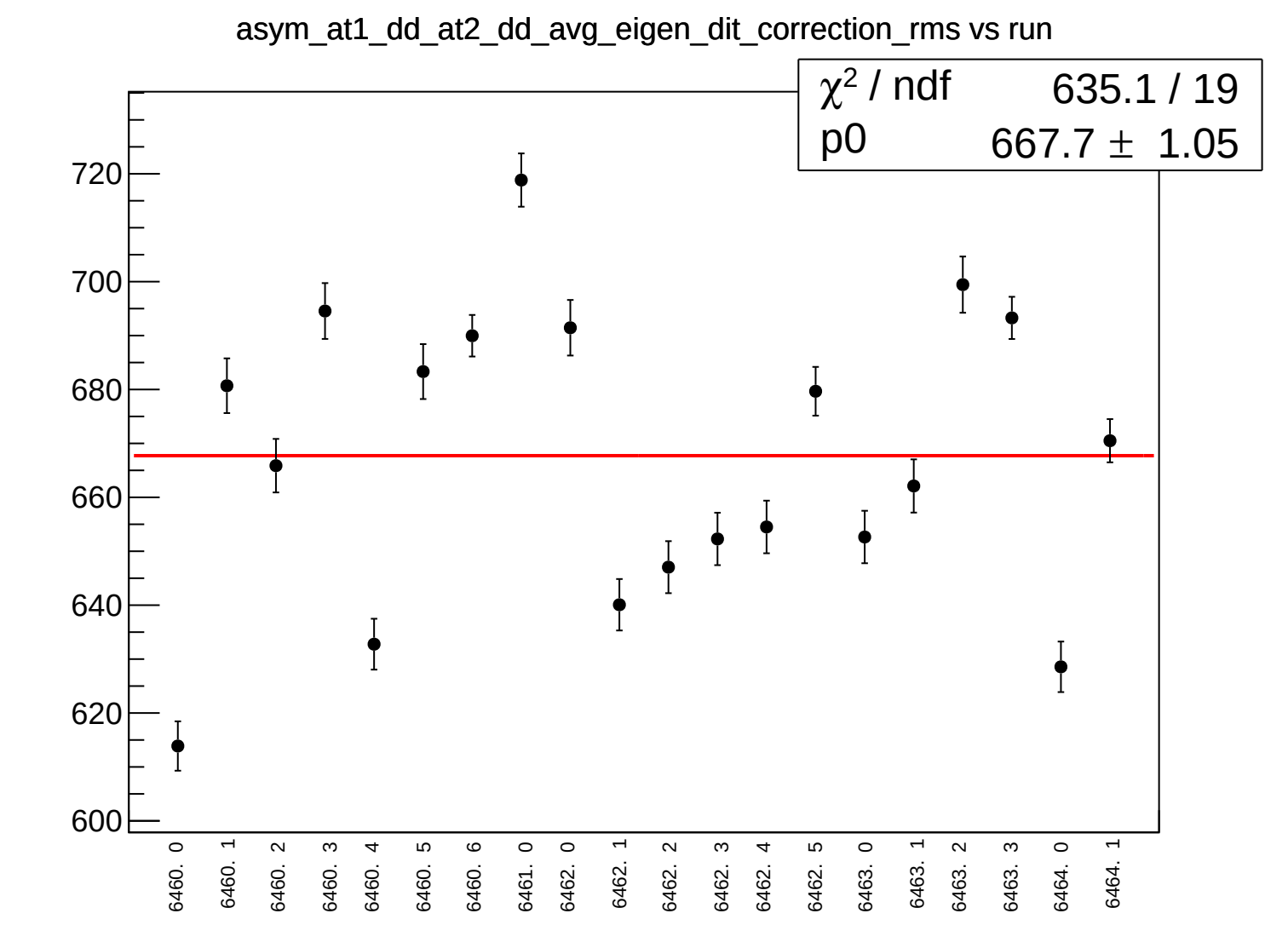

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 25.34 / 19
p0 −3552 ± 2817
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.55
Std Dev 0
2
1
0
−1
−2

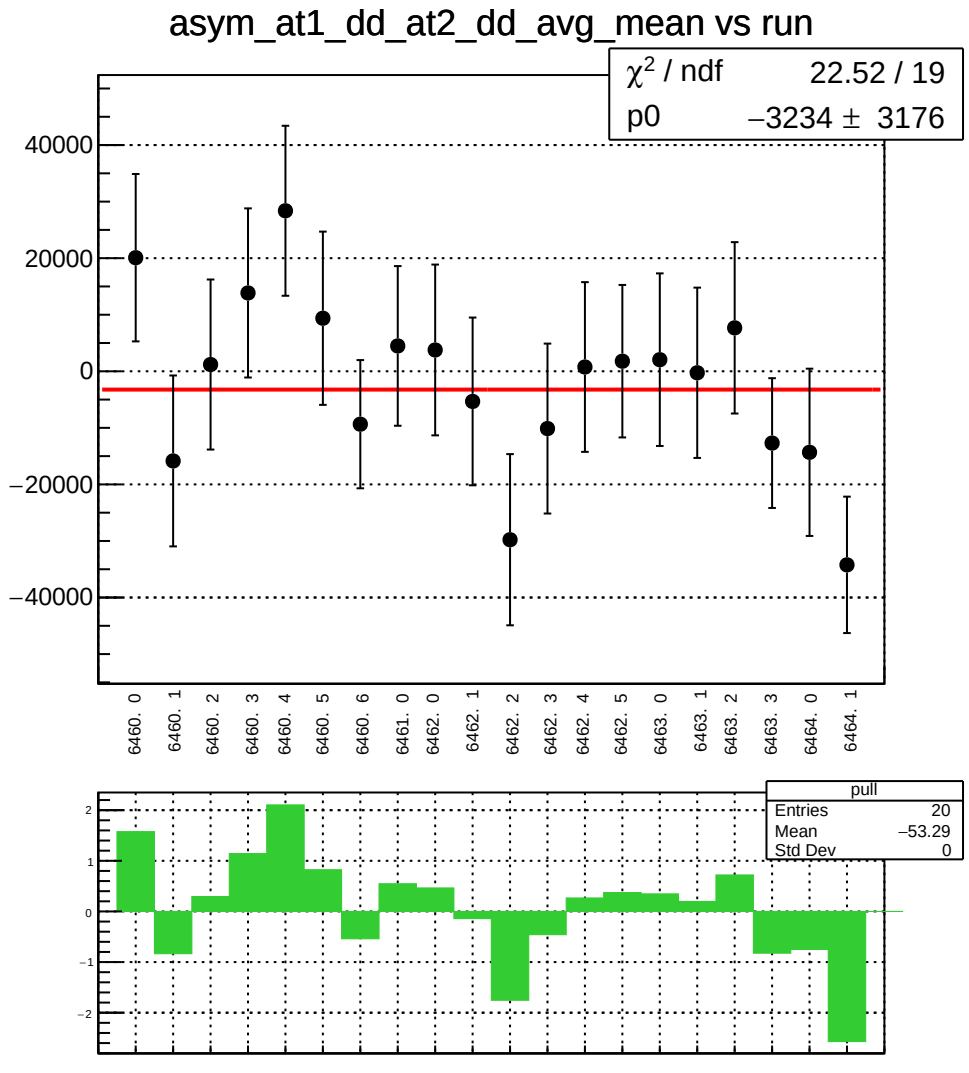

pull1D
Entries 20
Mean 0.05913
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

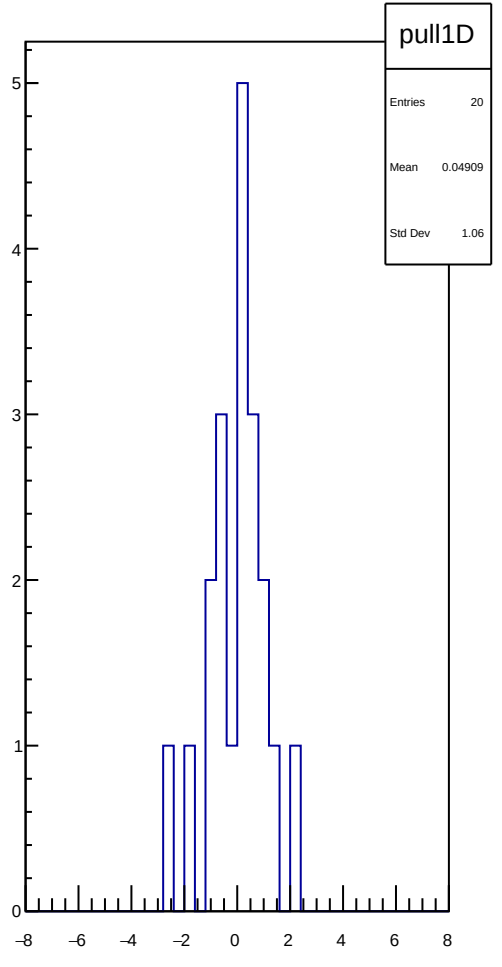

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 19.95 / 19
p0 1268 ± 1.992
1300
1290
1280
1270
1260
1250
1240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

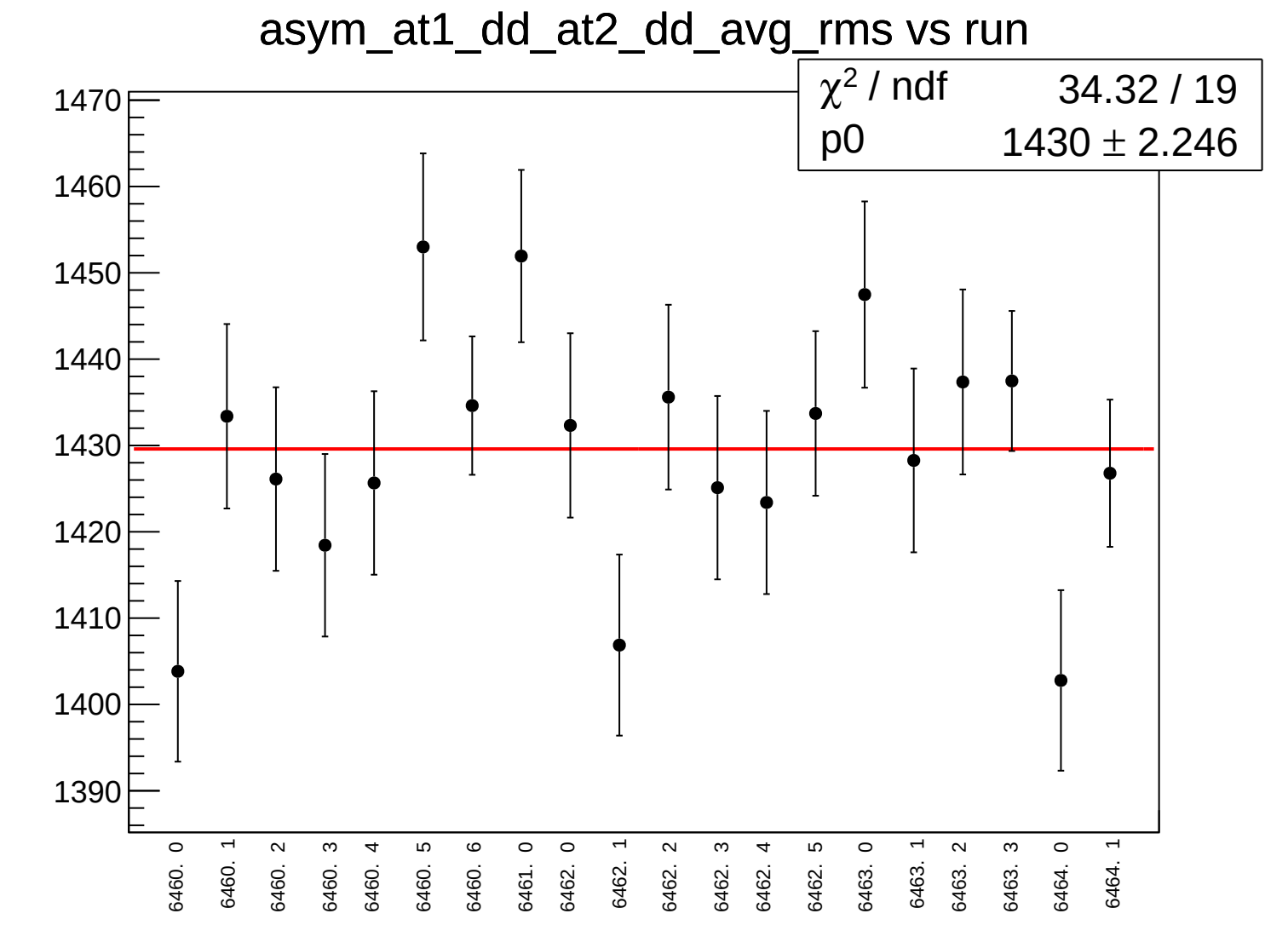

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 7.404 / 19
p0 −221.3 ± 1485
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 792.9
Std Dev 0
1
0.5
0
−0.5
−1

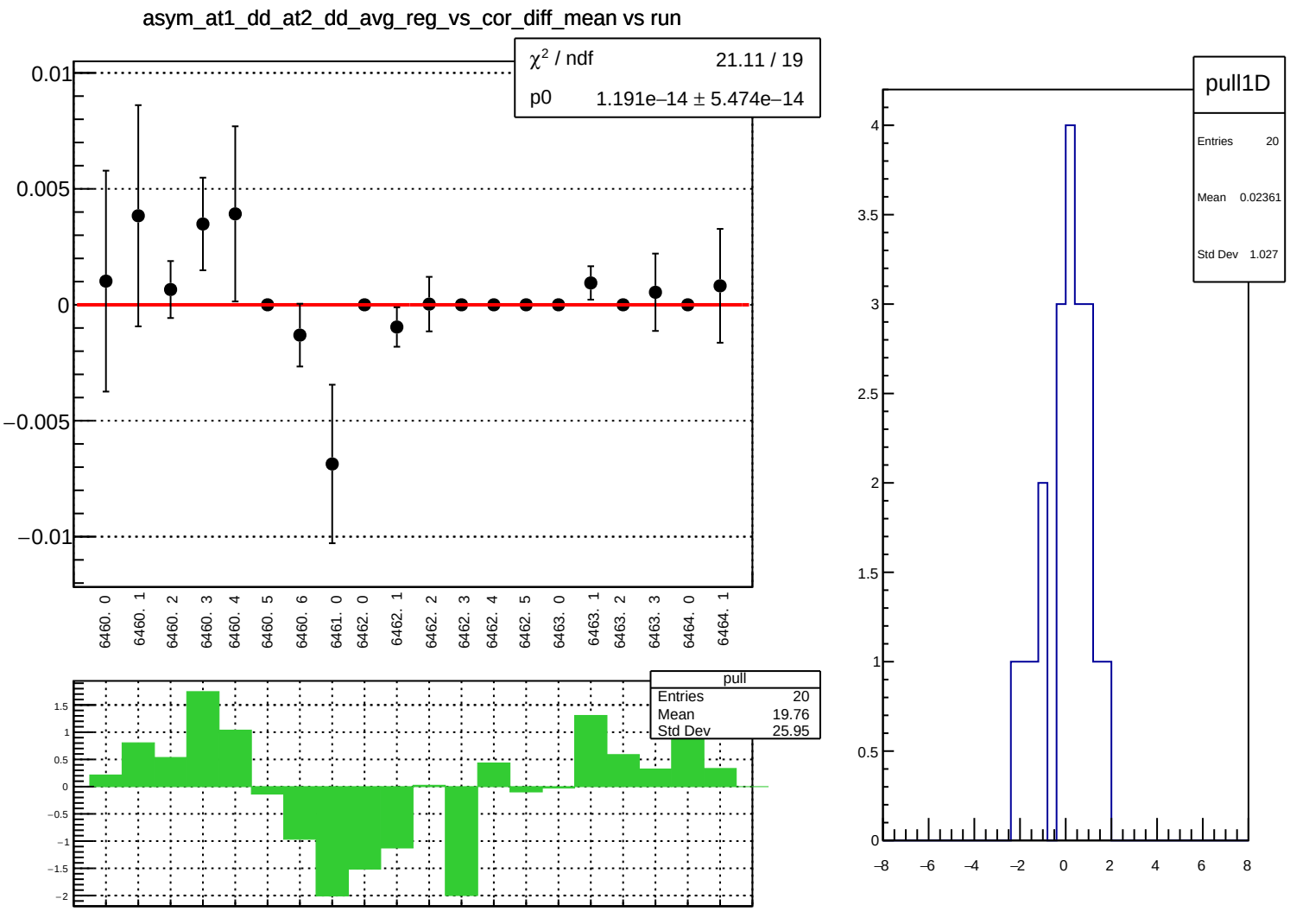

pull1D
Entries 20
Mean −0.0005164
Std Dev 0.6084
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

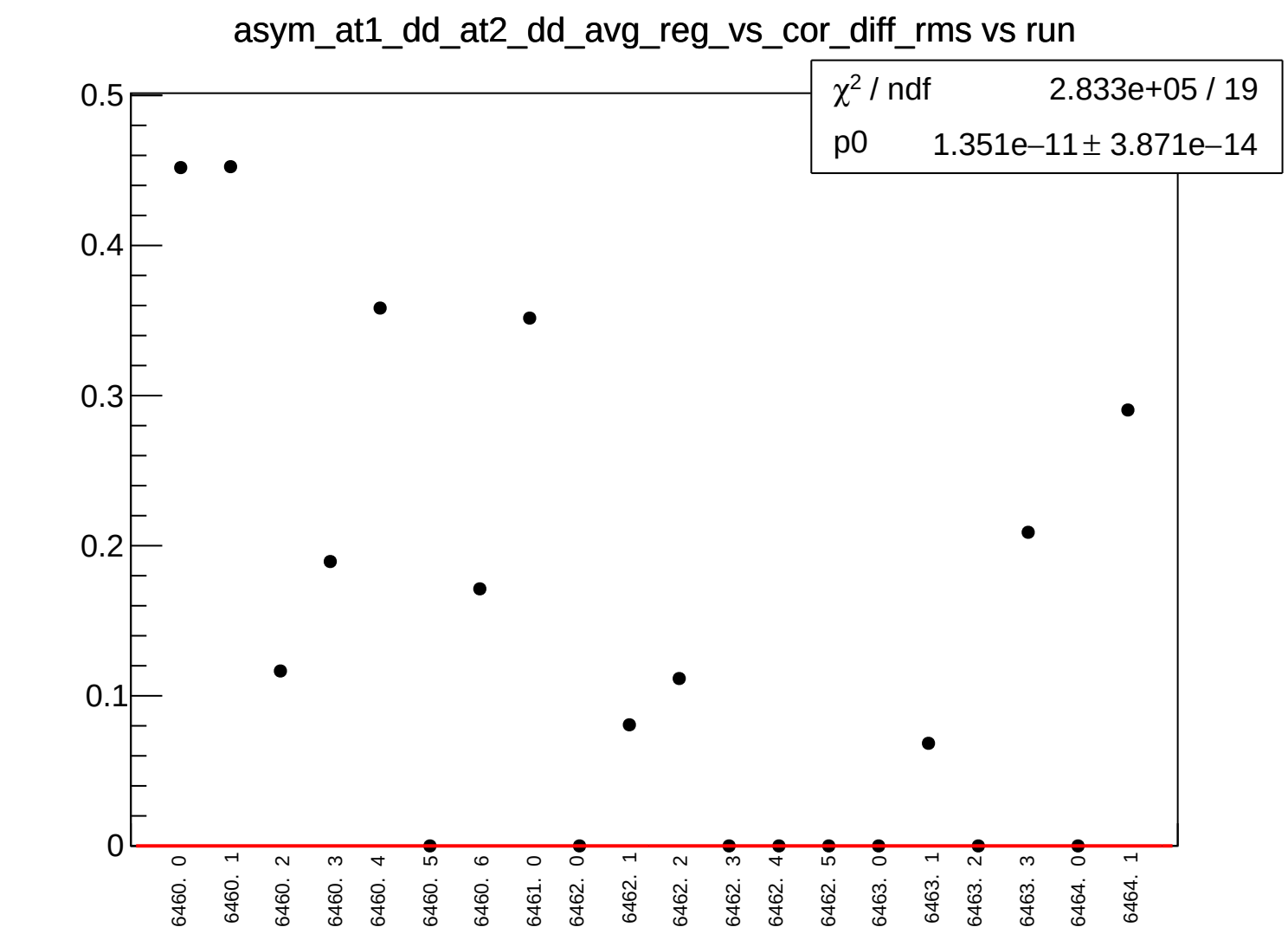

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 635.1 / 19
p0 667.7 ± 1.05
720
700
680
660
640
620
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 22.52 / 19
p0 −3234 ± 3176
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.29
Std Dev 0
2
1
0
−1
−2

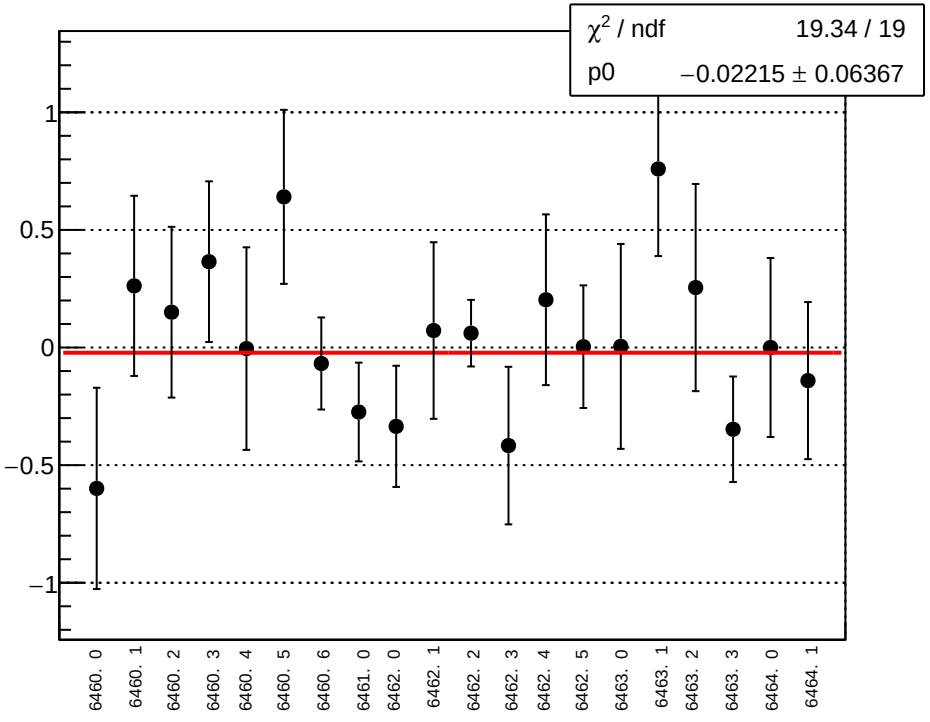

pull1D
Entries 20
Mean 0.04909
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

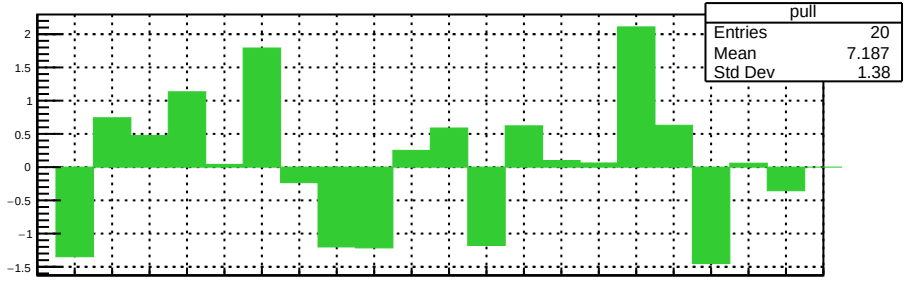

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 34.32 / 19
p0 1430 ± 2.246
1470
1460
1450
1440
1430
1420
1410
1400
1390
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

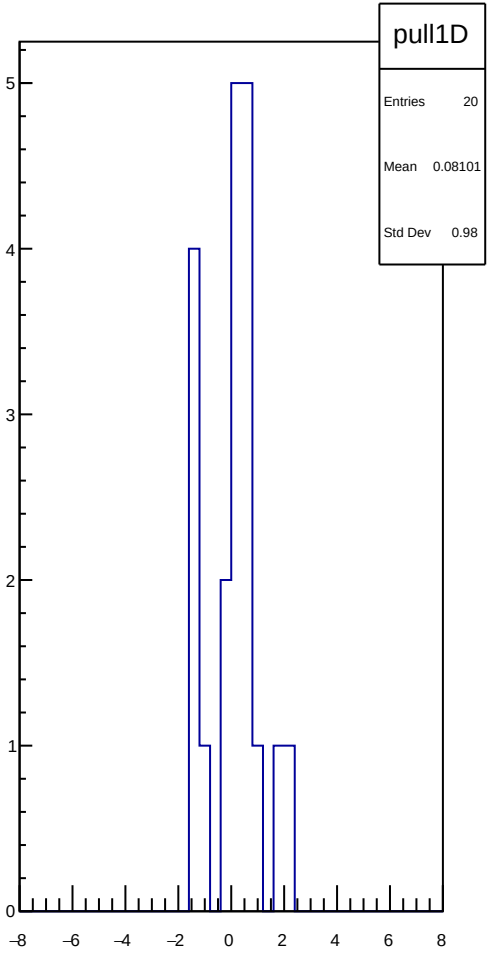

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.11 / 19
p0 1.191e−14 ± 5.474e−14
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.76
Std Dev 25.95
pull1D
Entries 20
Mean 0.02361
Std Dev 1.027

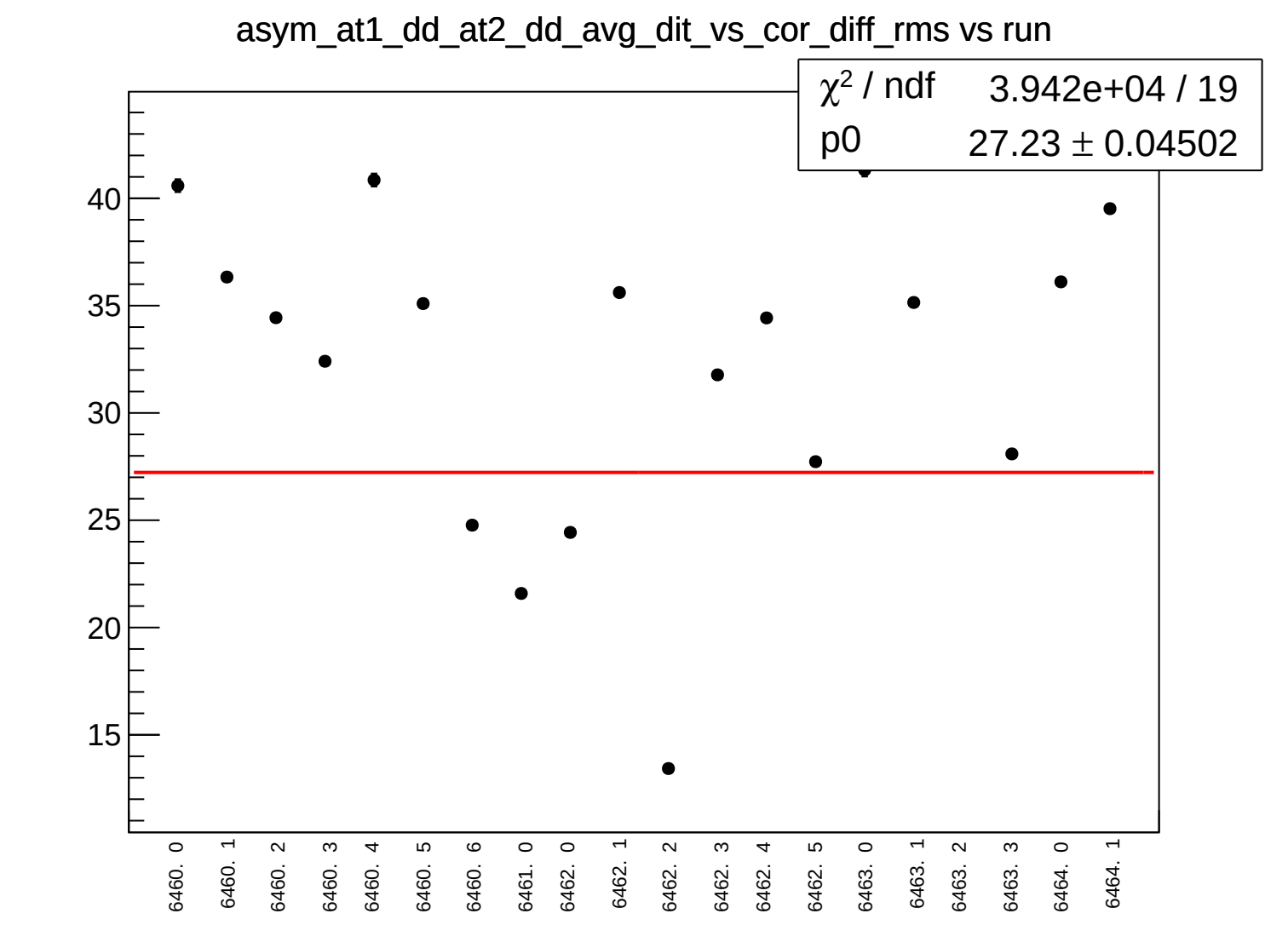

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.833e+05 / 19
p0 1.351e−11 ± 3.871e−14
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

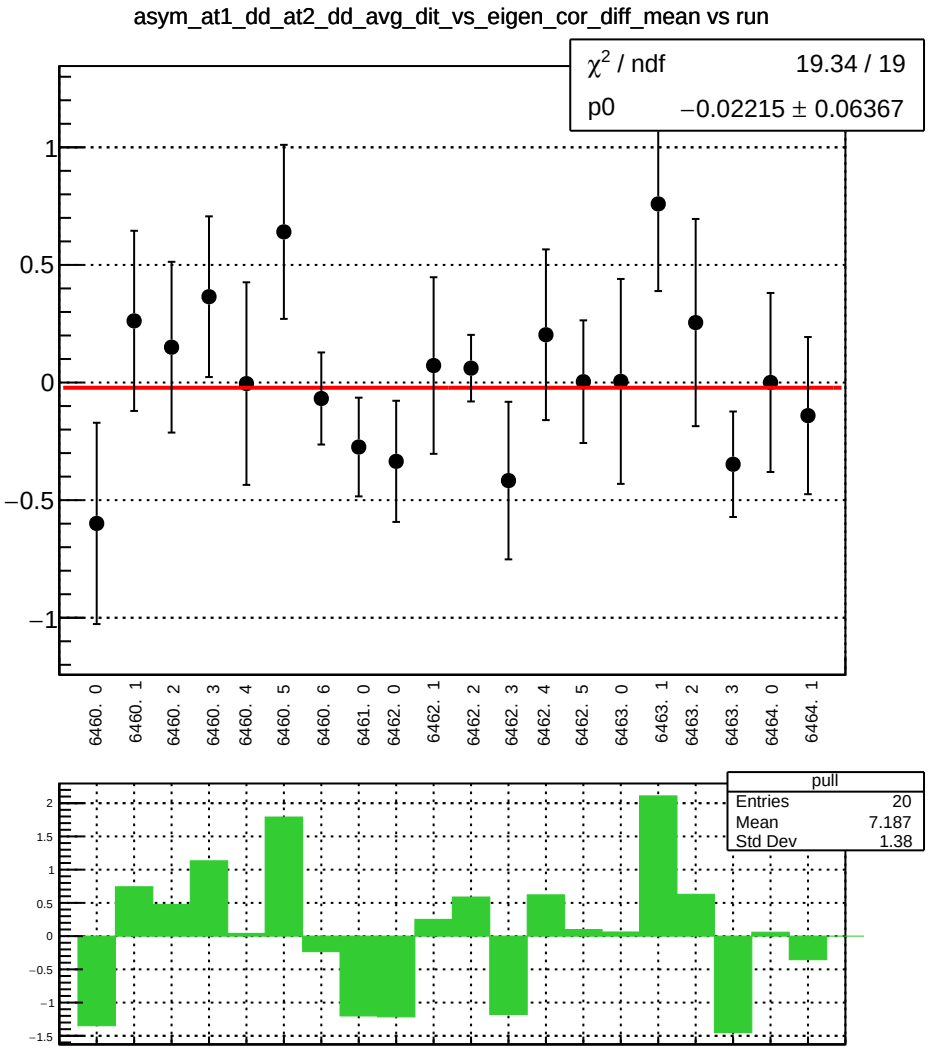
asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run

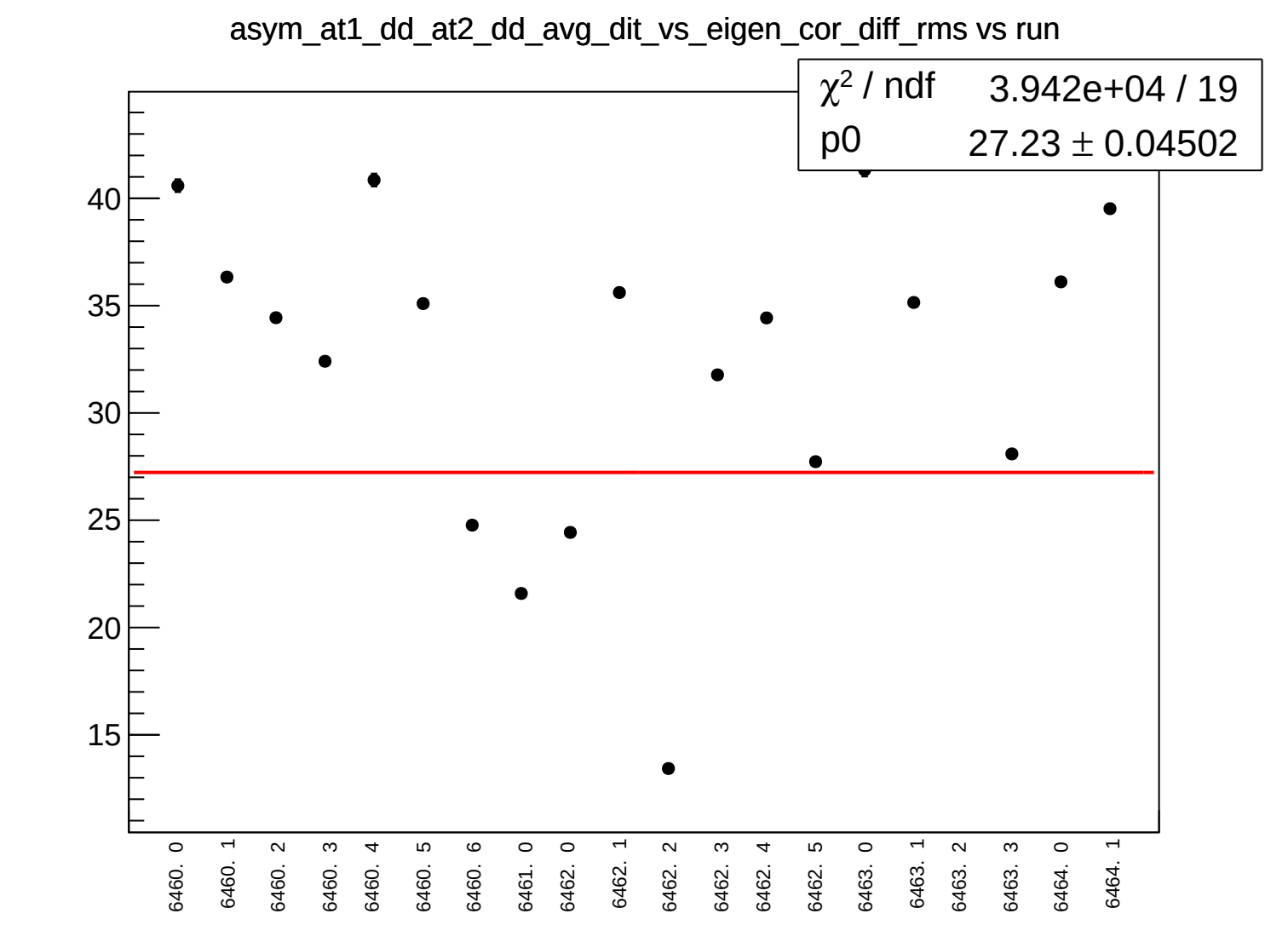


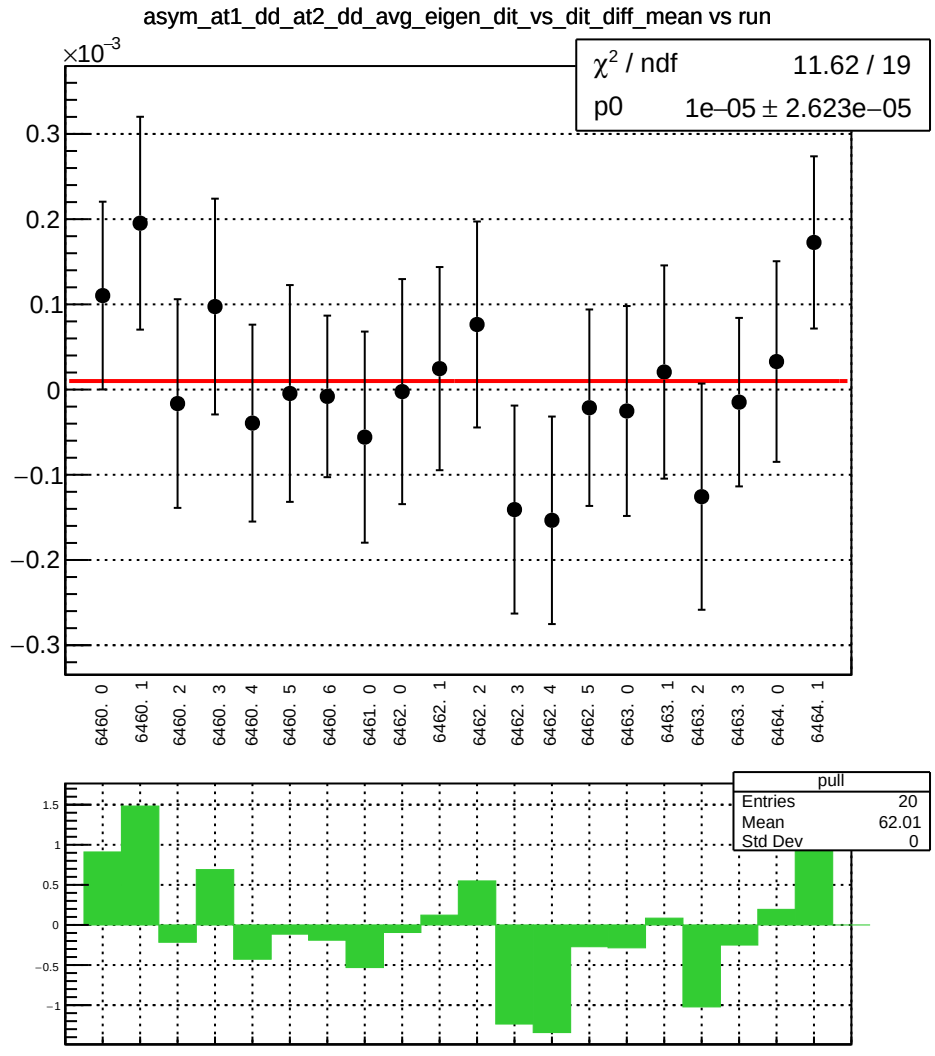


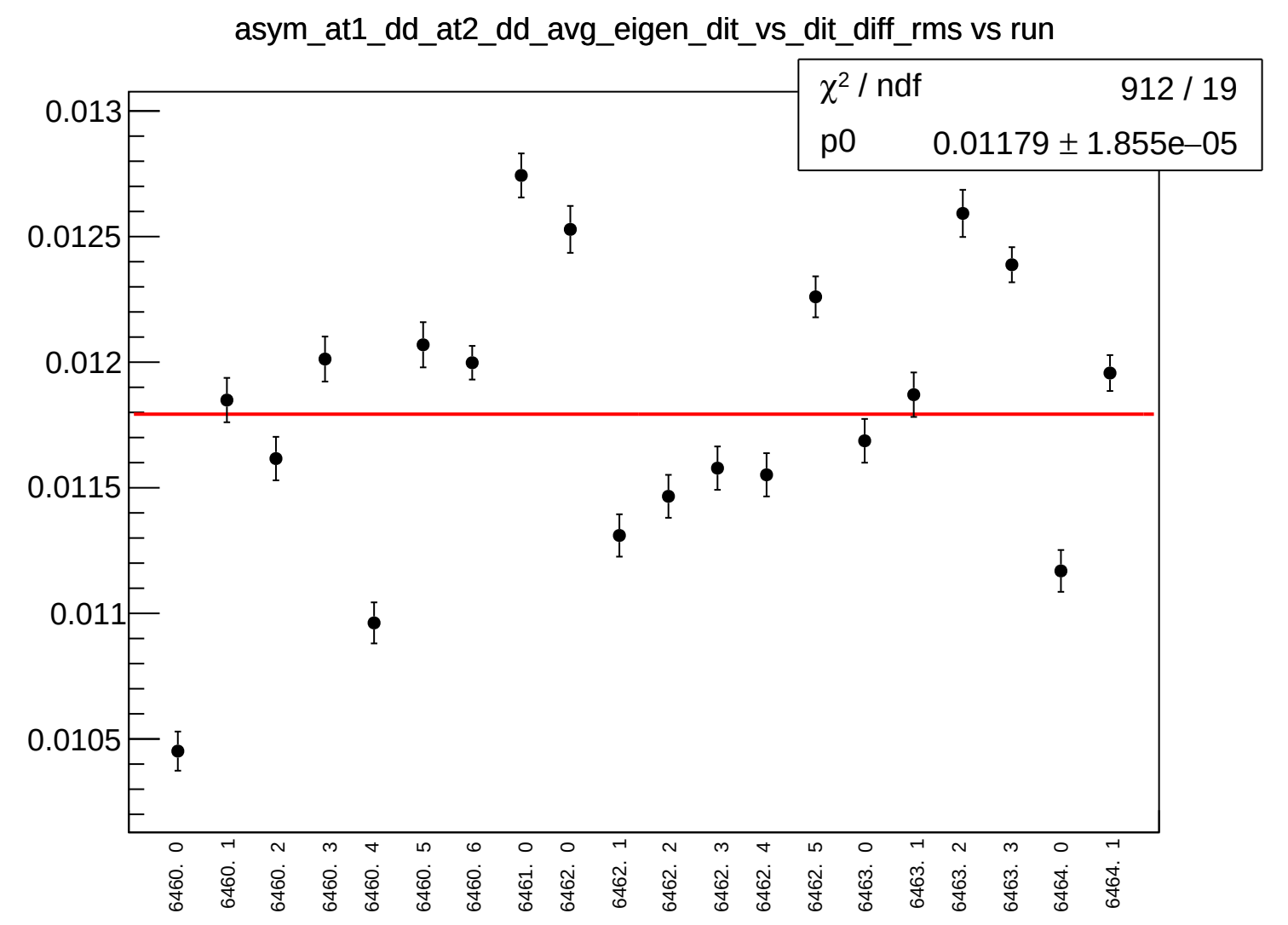


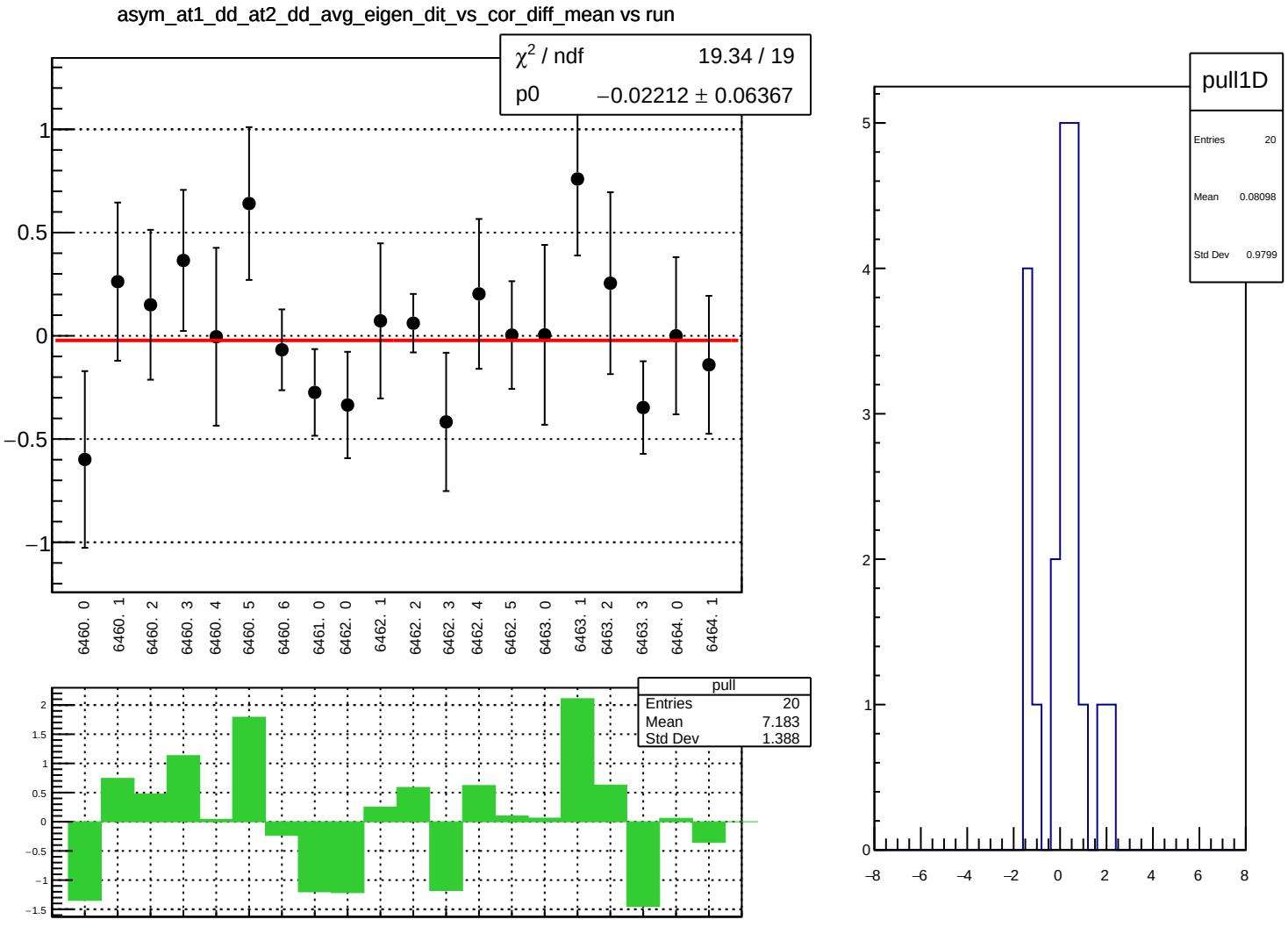

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.942e+04 / 19
p0 27.23 ± 0.04502
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

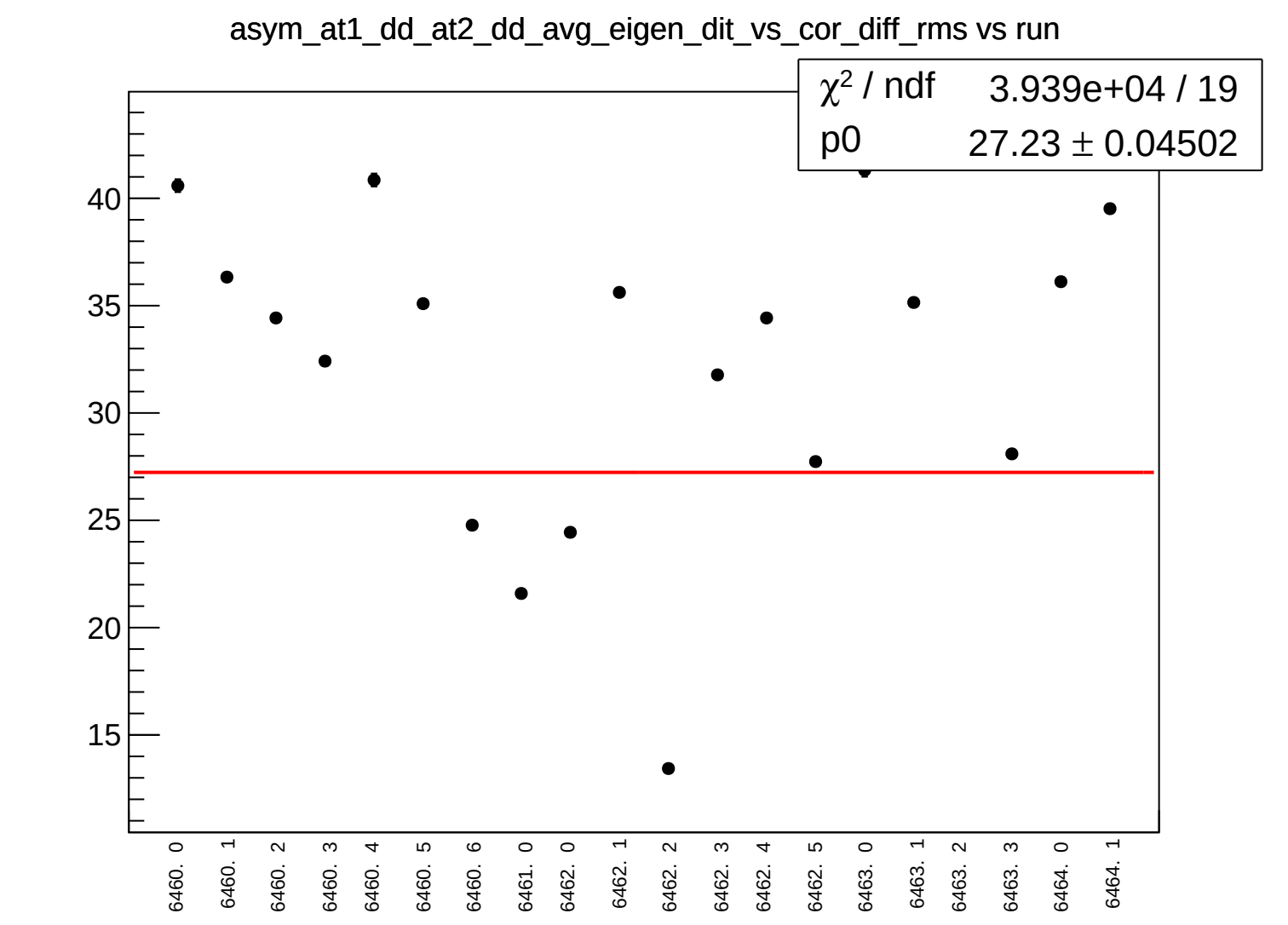

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.34 / 19
p0 −0.02215 ± 0.06367
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.187
Std Dev 1.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.08101
Std Dev 0.98
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

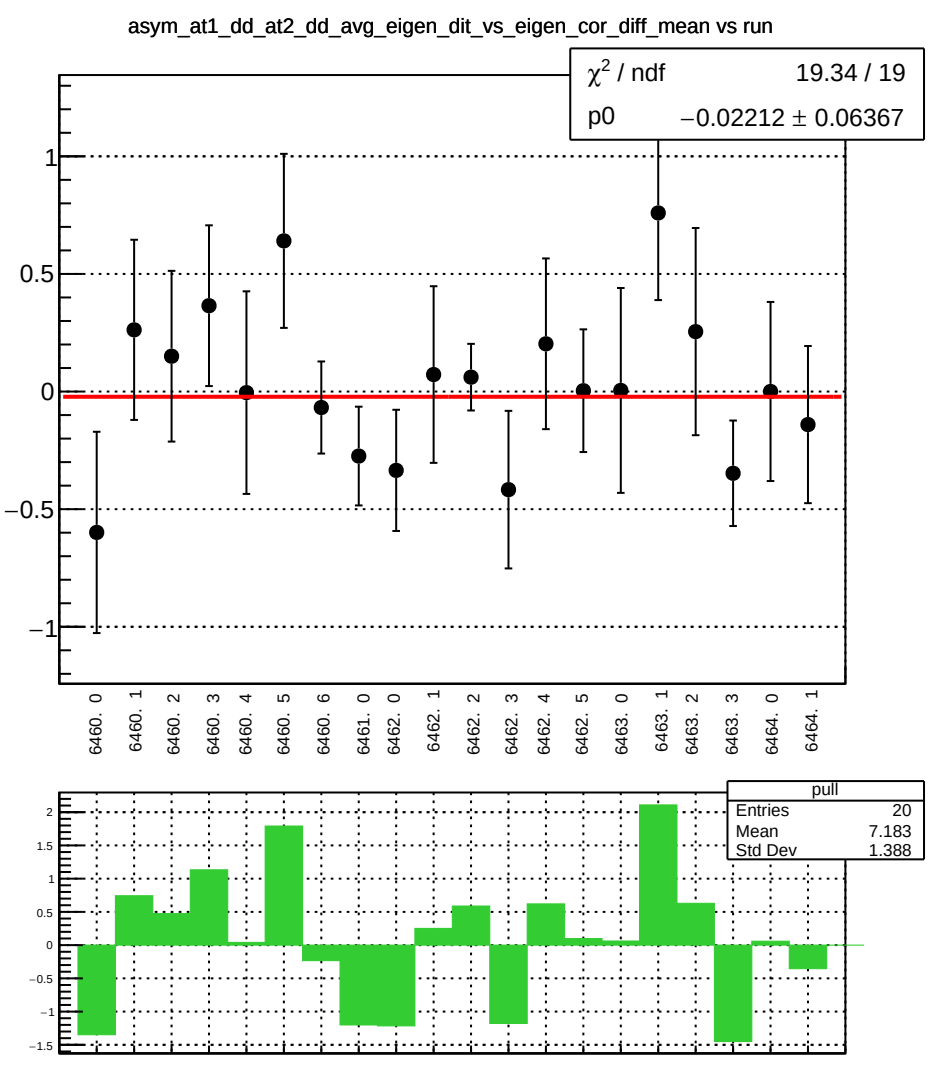

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.942e+04 / 19
p0 27.23 ± 0.04502
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

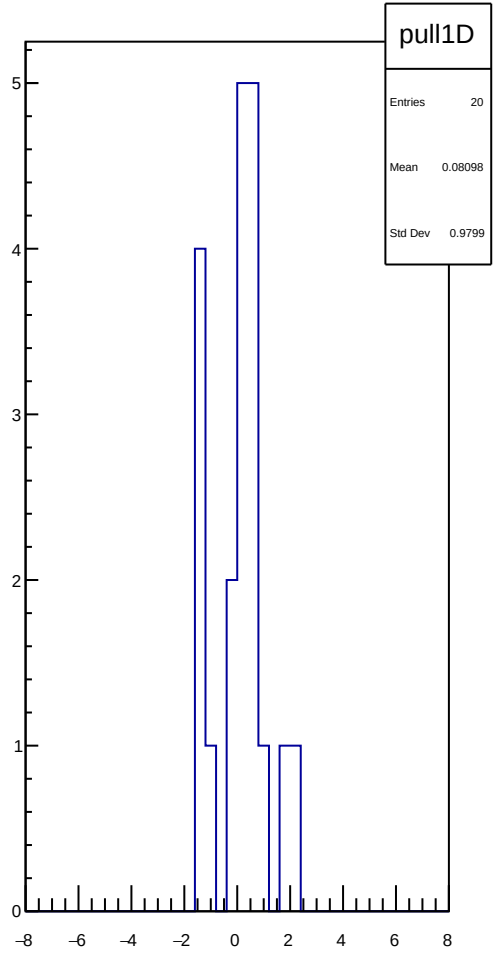

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.62 / 19
p0 1e−05 ± 2.623e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01679
Std Dev 0.762
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

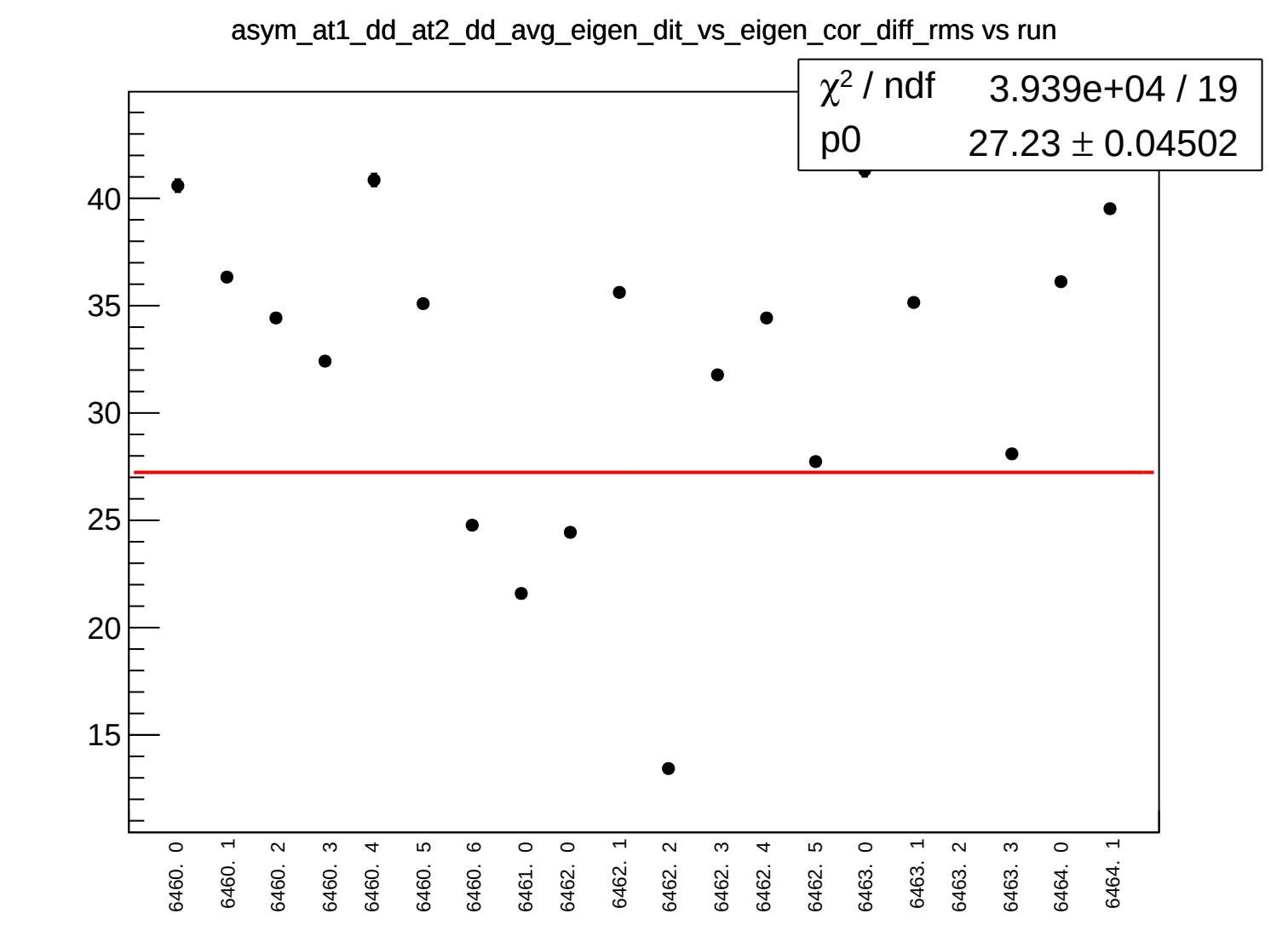

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 912 / 19
p0 0.01179 ± 1.855e−05
0.013
0.0125
0.012
0.0115
0.011
0.0105
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

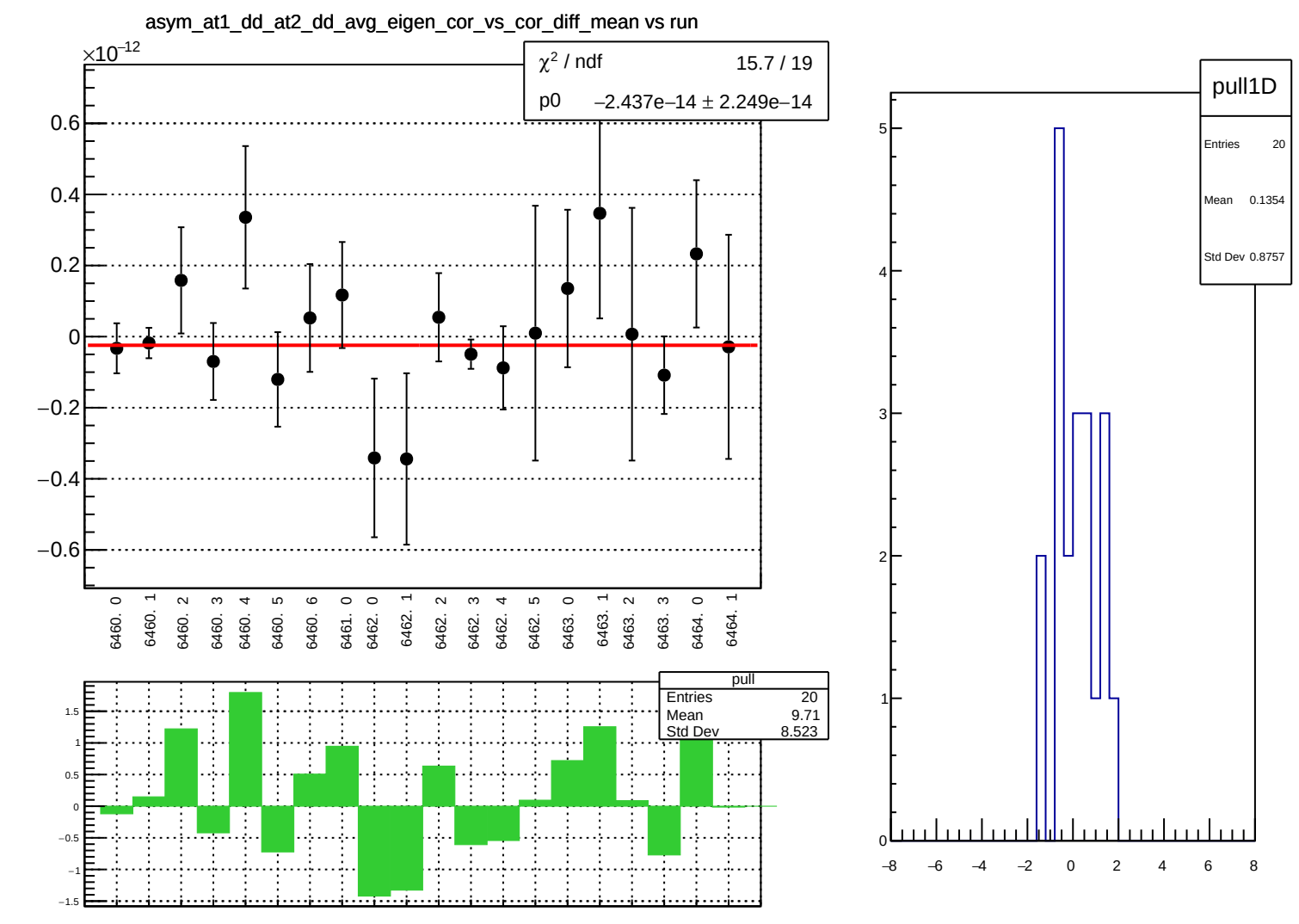

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.34 / 19
p0 −0.02212 ± 0.06367
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.183
Std Dev 1.388
pull1D
Entries 20
Mean 0.08098
Std Dev 0.9799

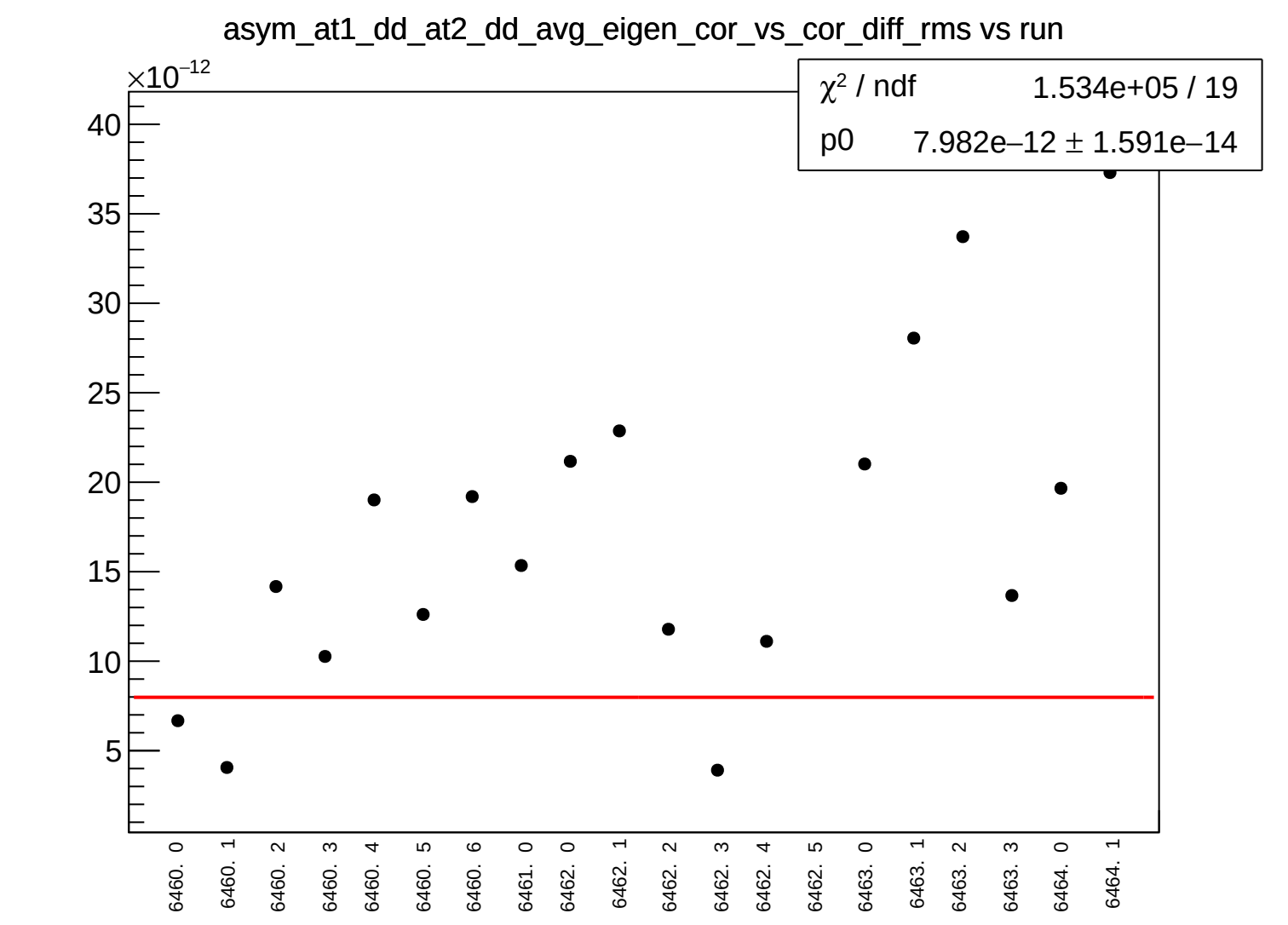

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.939e+04 / 19
p0 27.23 ± 0.04502
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

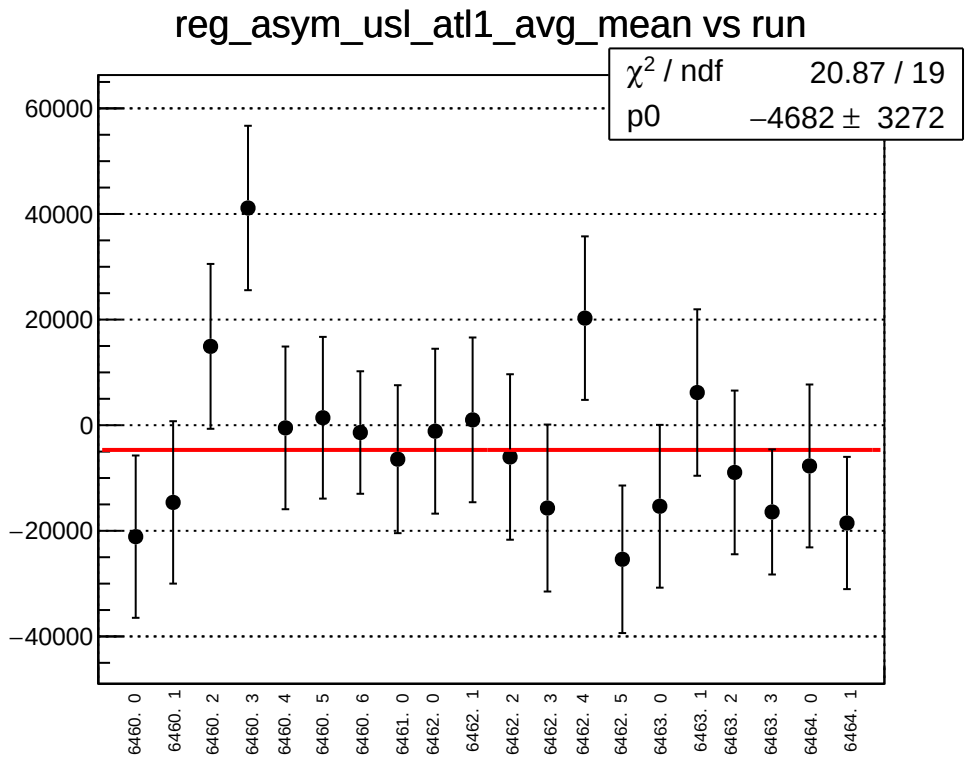

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.34 / 19
p0 −0.02212 ± 0.06367
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.183
Std Dev 1.388
2
1.5
1
0.5
0
−0.5
−1
−1.5

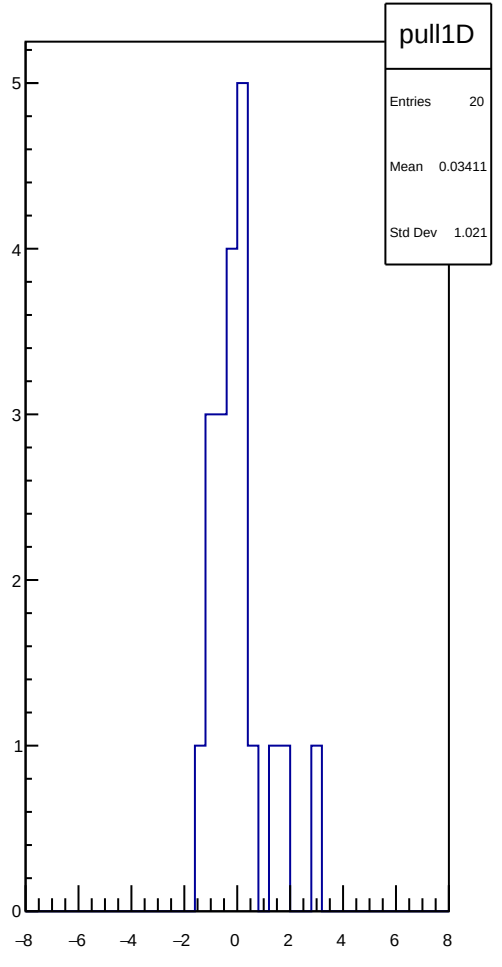

pull1D
Entries 20
Mean 0.08098
Std Dev 0.9799
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

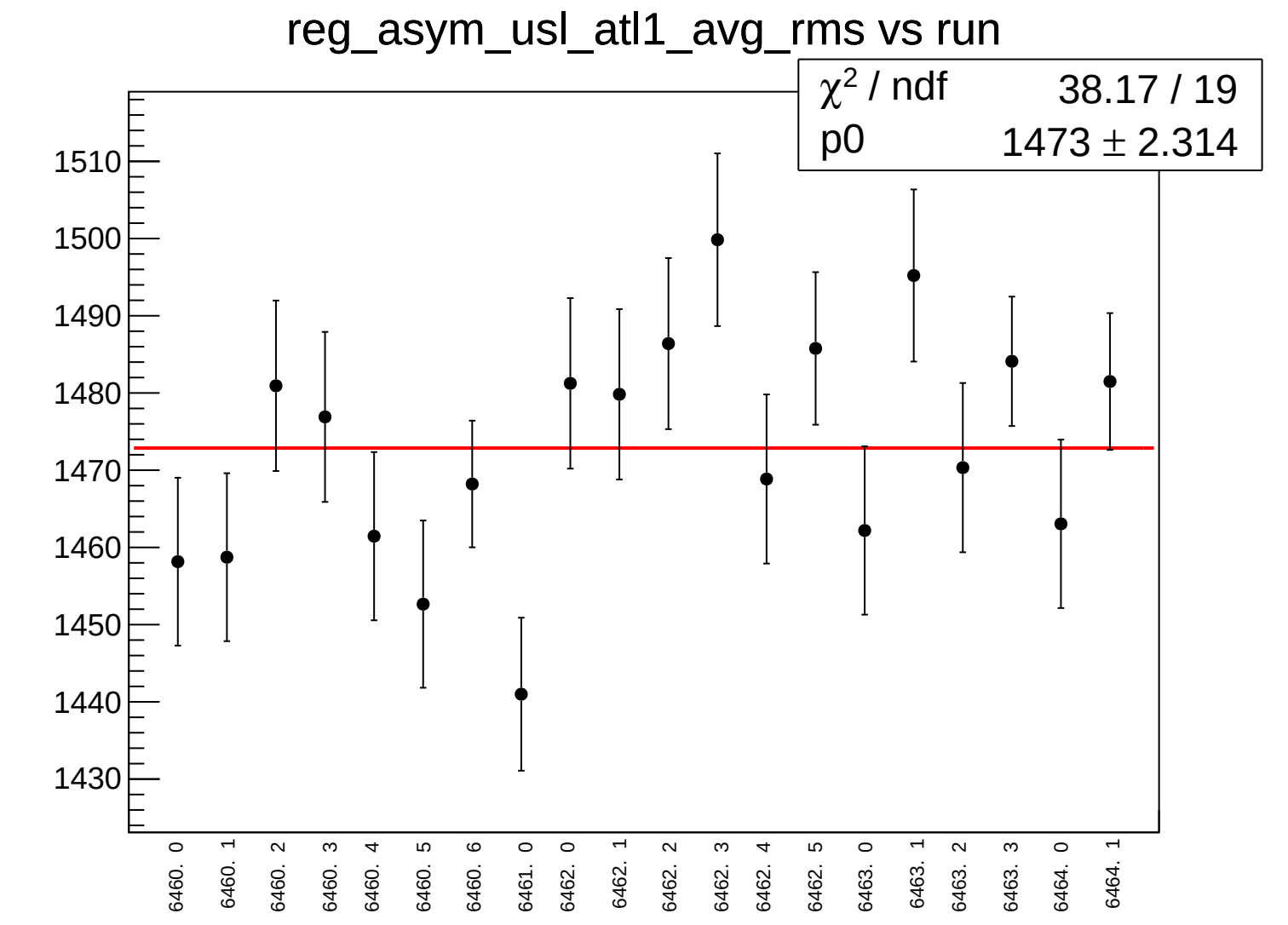

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.939e+04 / 19
p0 27.23 ± 0.04502
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

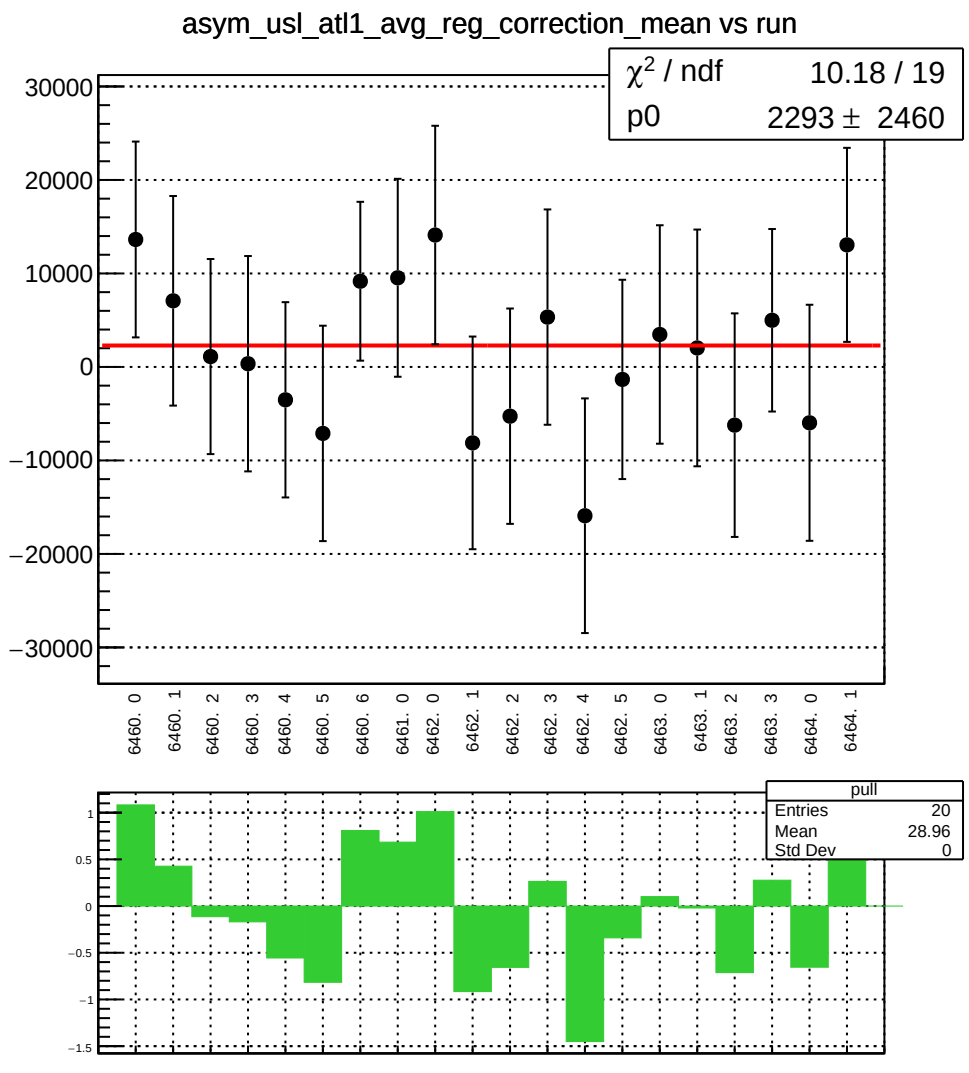

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 15.7 / 19
p0 −2.437e−14 ± 2.249e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.71
Std Dev 8.523
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.1354
Std Dev 0.8757
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

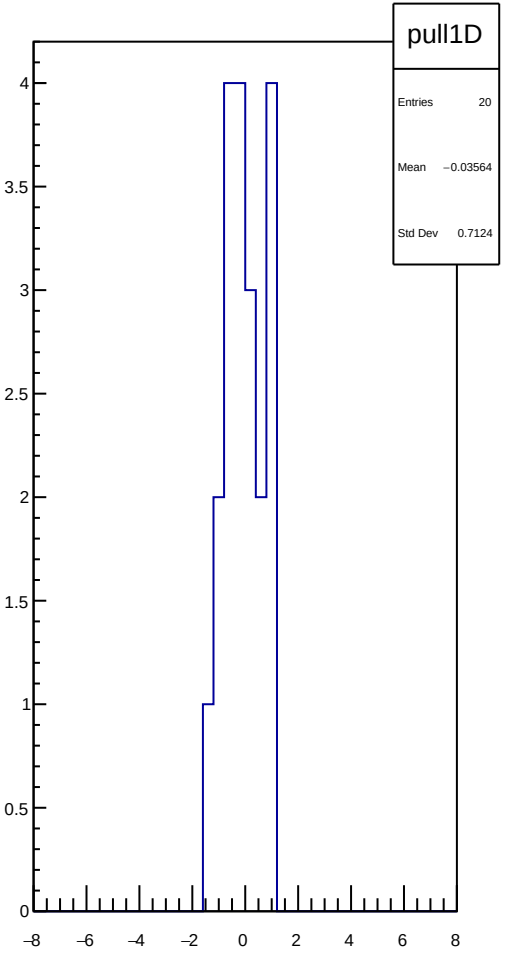

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.534e+05 / 19
p0 7.982e−12 ± 1.591e−14
40
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

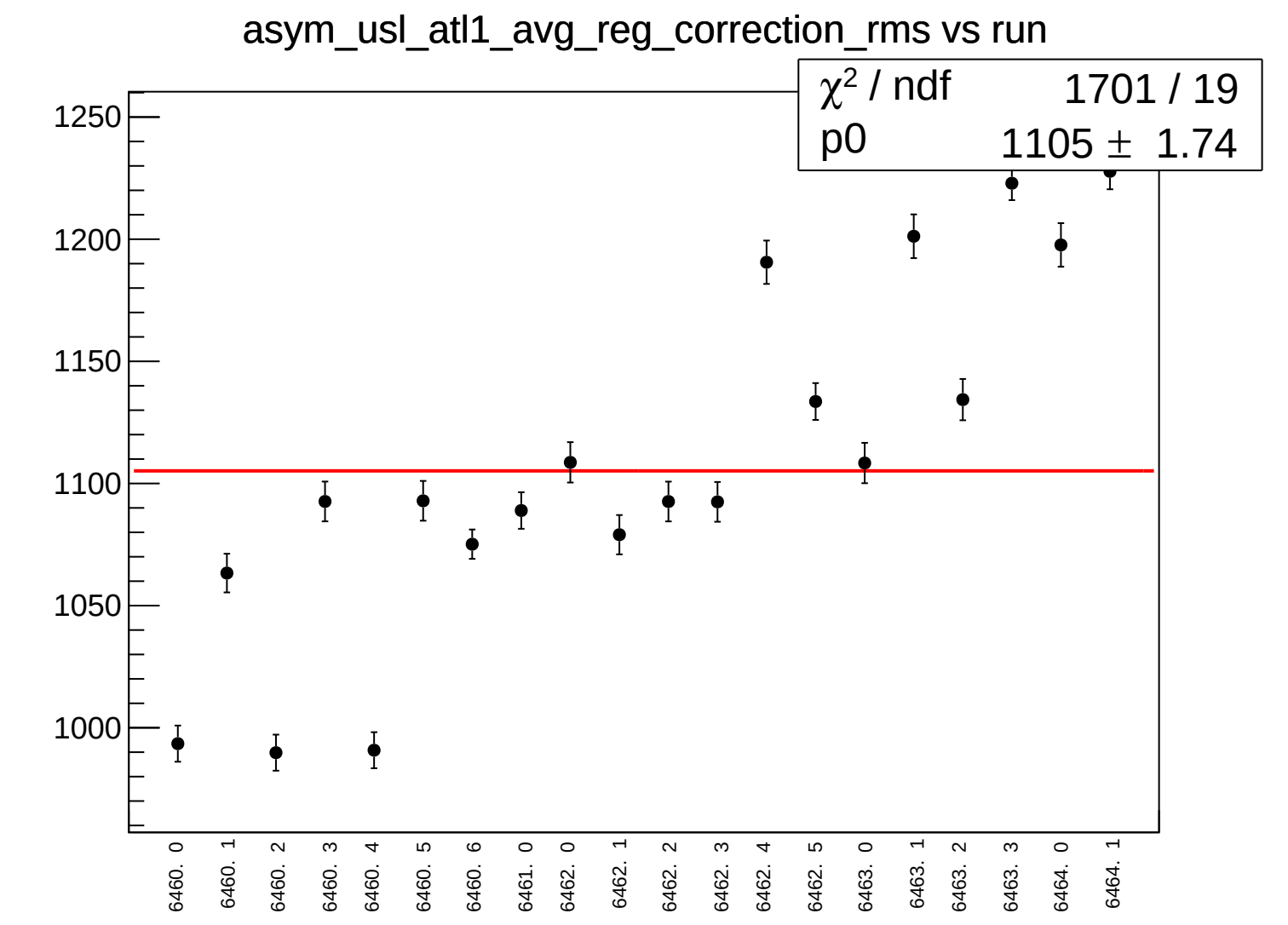

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 20.87 / 19
p0 −4682 ± 3272
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.15
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

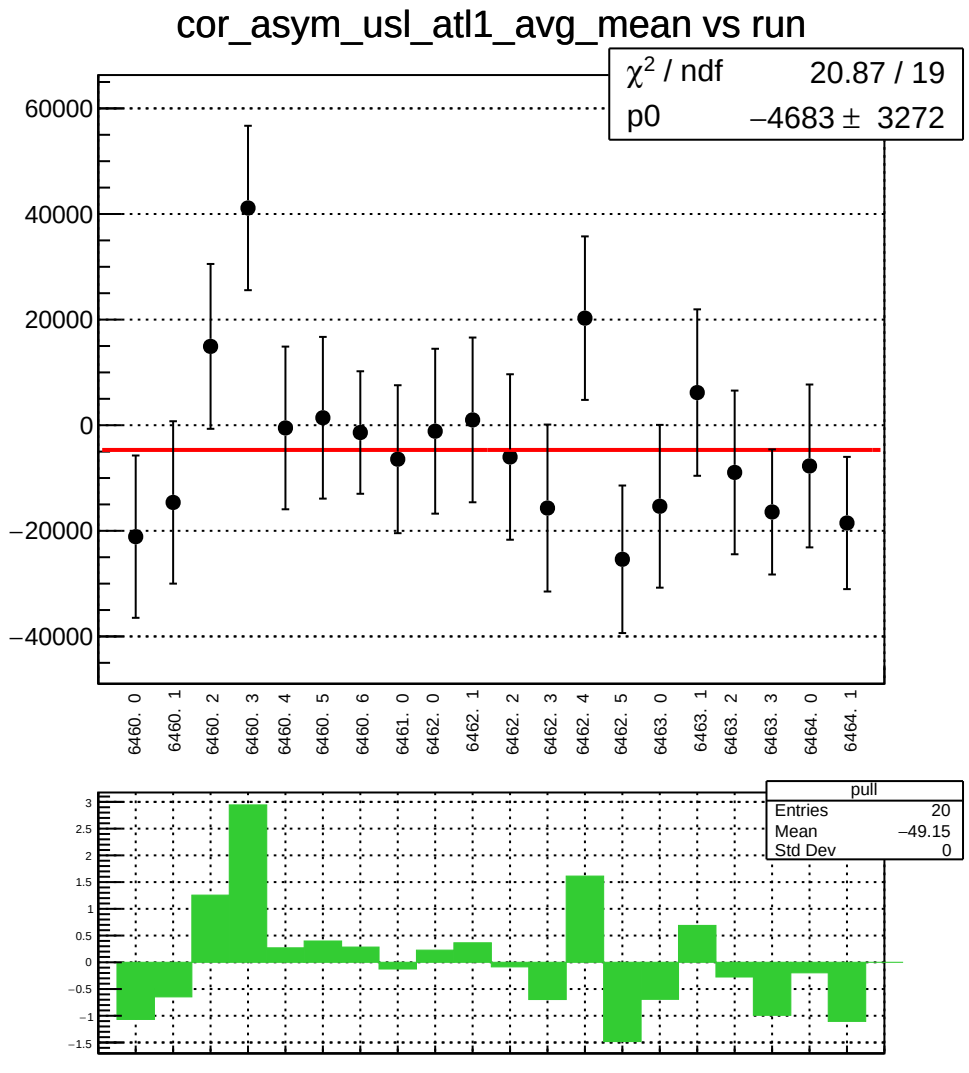

pull1D
Entries 20
Mean 0.03411
Std Dev 1.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

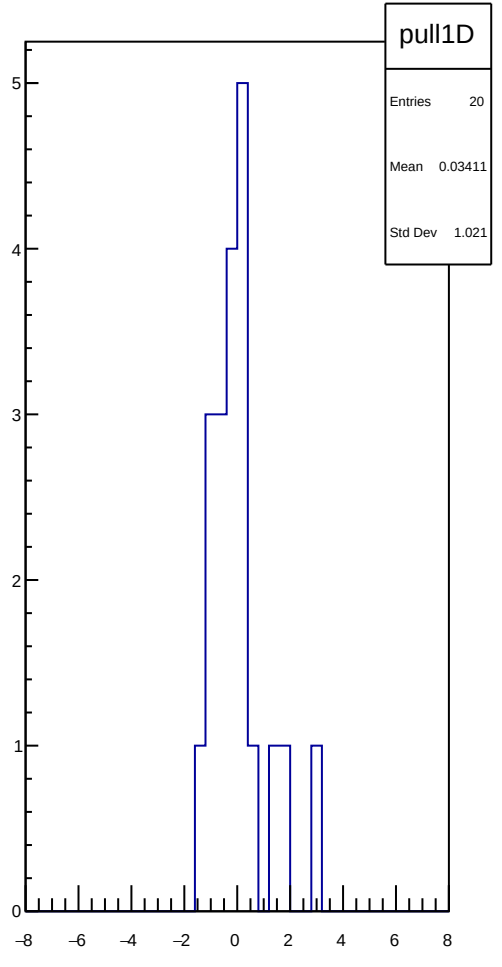

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 38.17 / 19
p0 1473 ± 2.314
1510
1500
1490
1480
1470
1460
1450
1440
1430
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

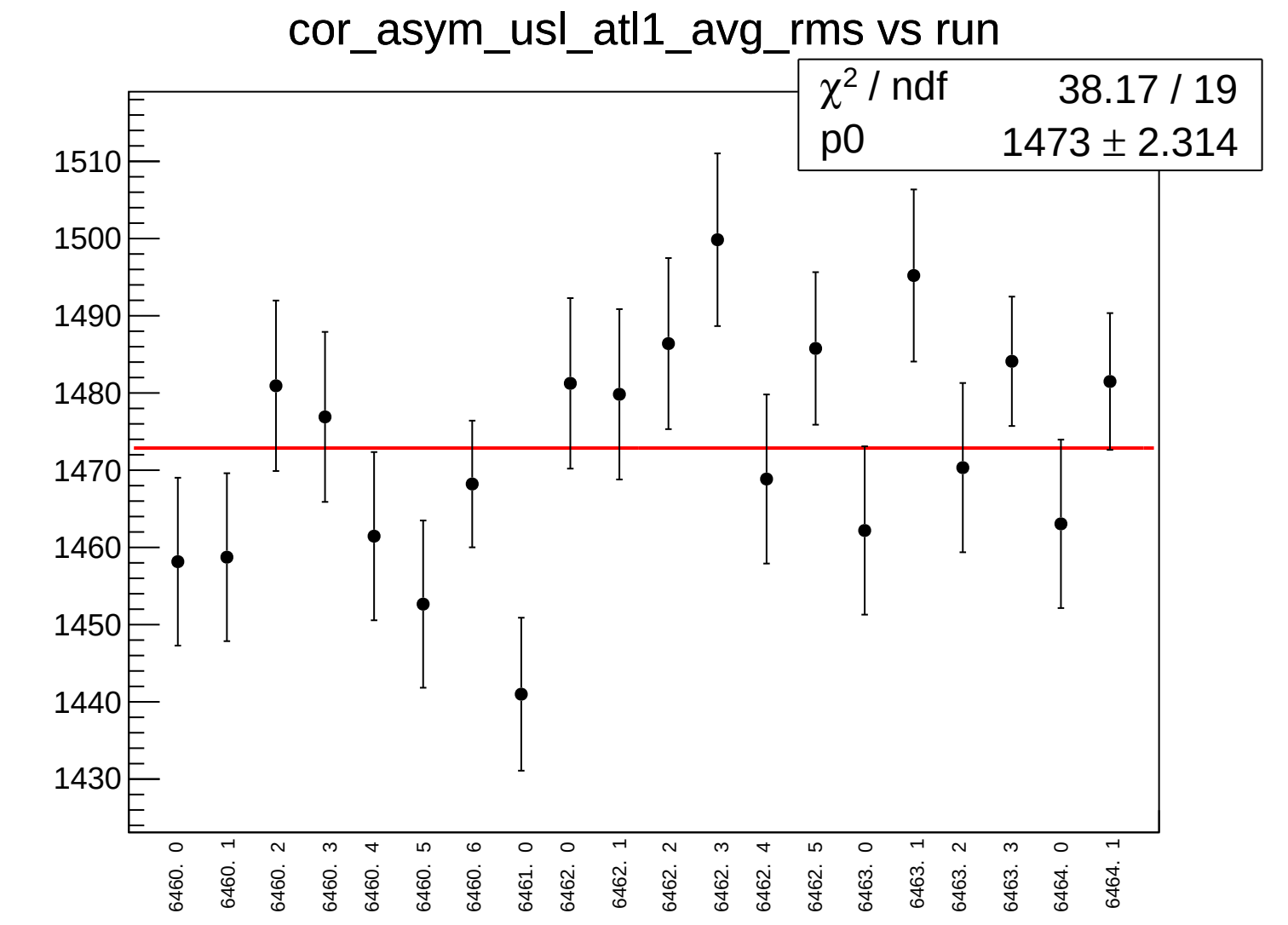

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 10.18 / 19
p0 2293 ± 2460
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 28.96
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

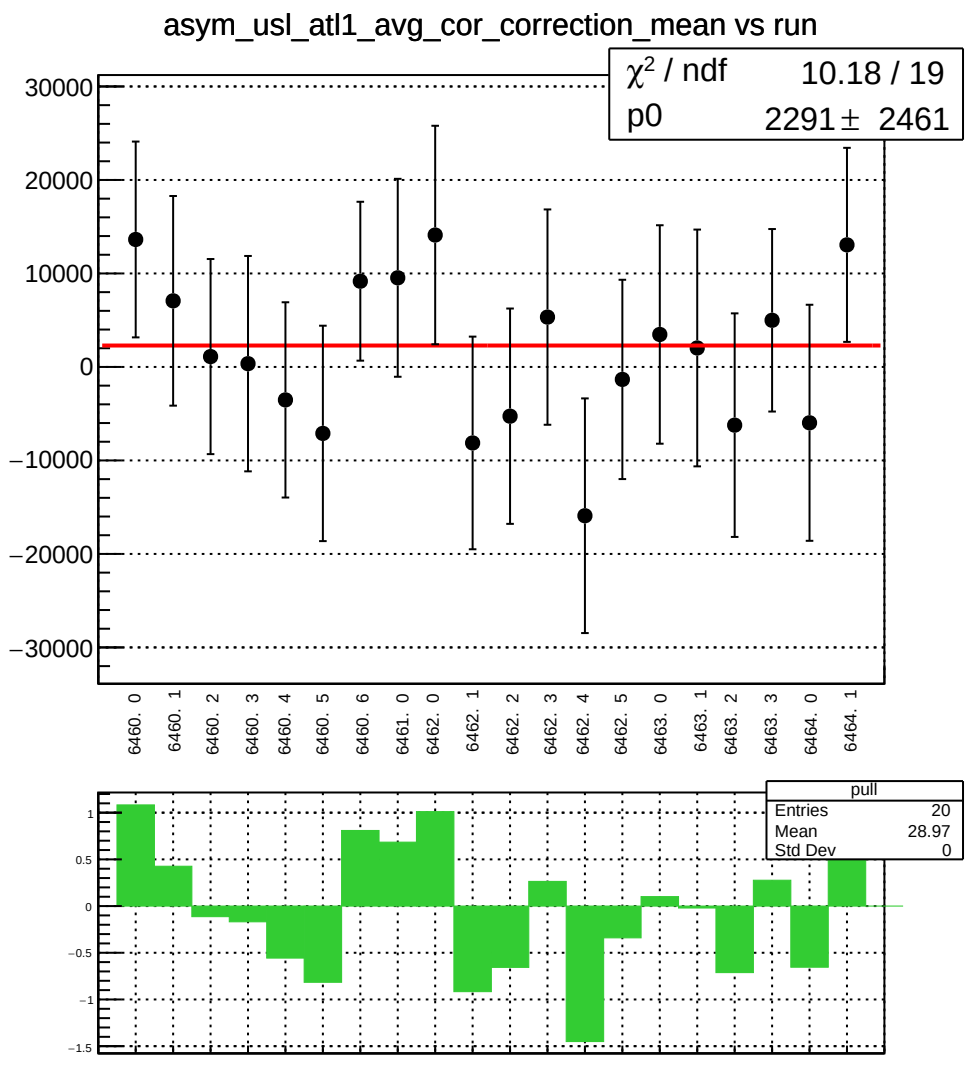

pull1D
Entries 20
Mean −0.03564
Std Dev 0.7124
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

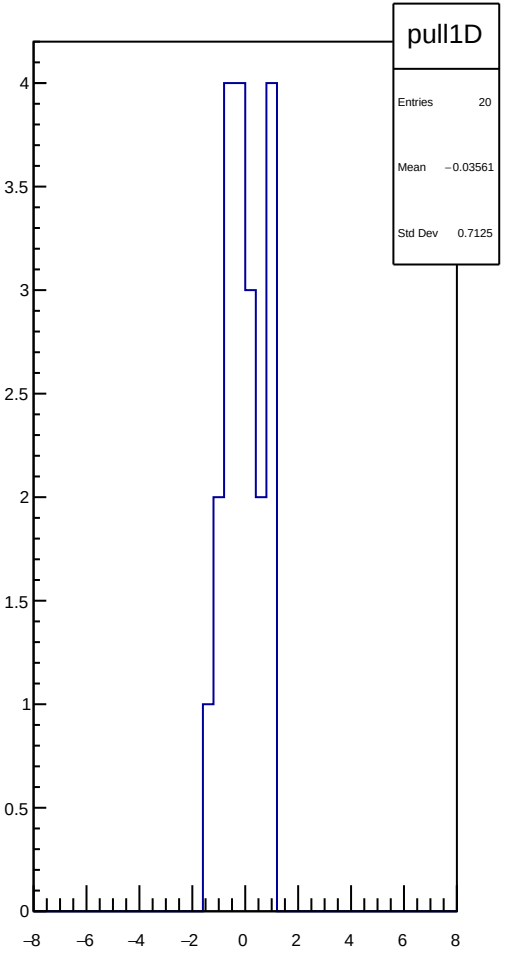

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1701 / 19
p0 1105 ± 1.74
1250
1200
1150
1100
1050
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

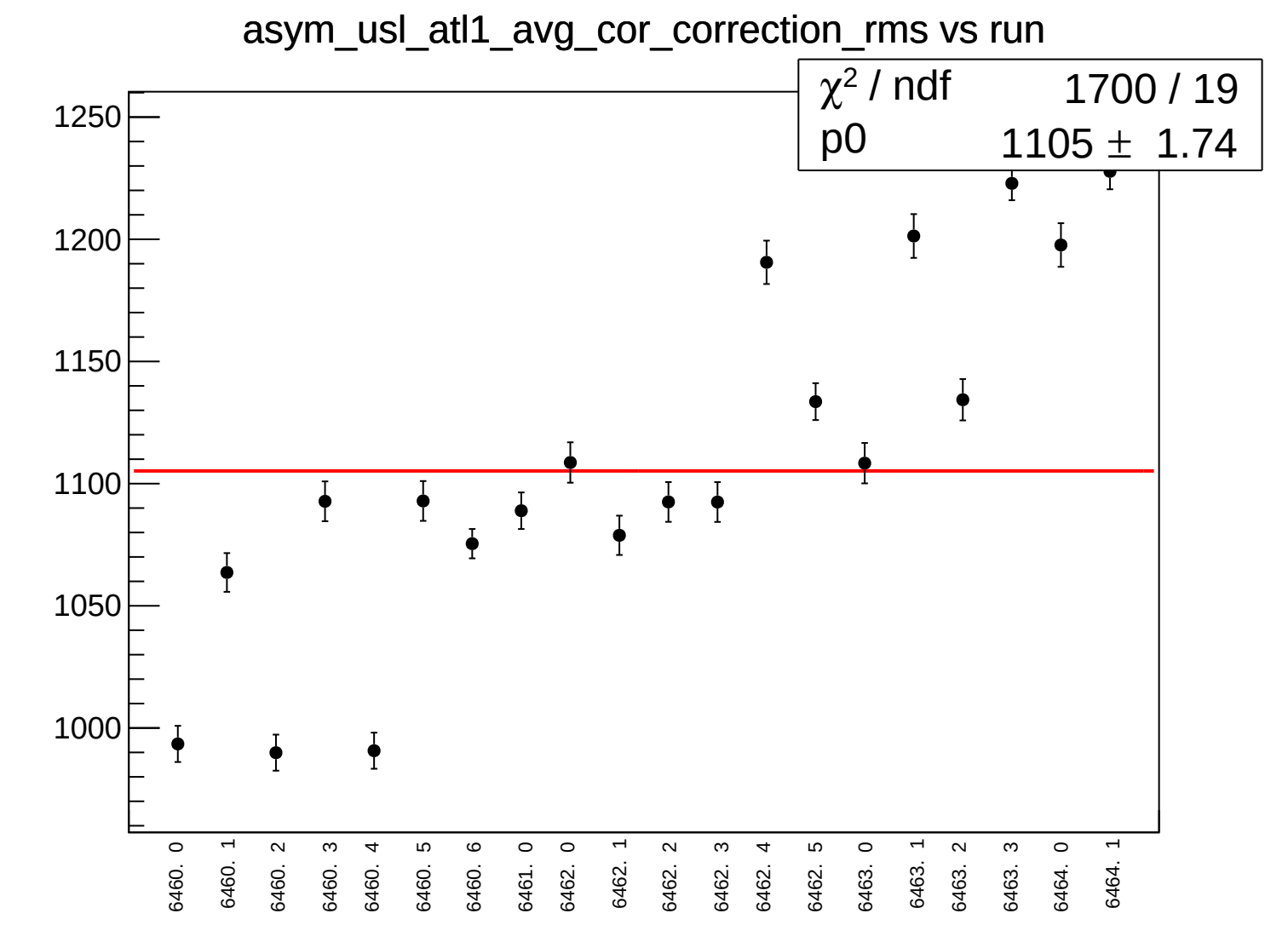

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 20.87 / 19
p0 −4683 ± 3272
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.15
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

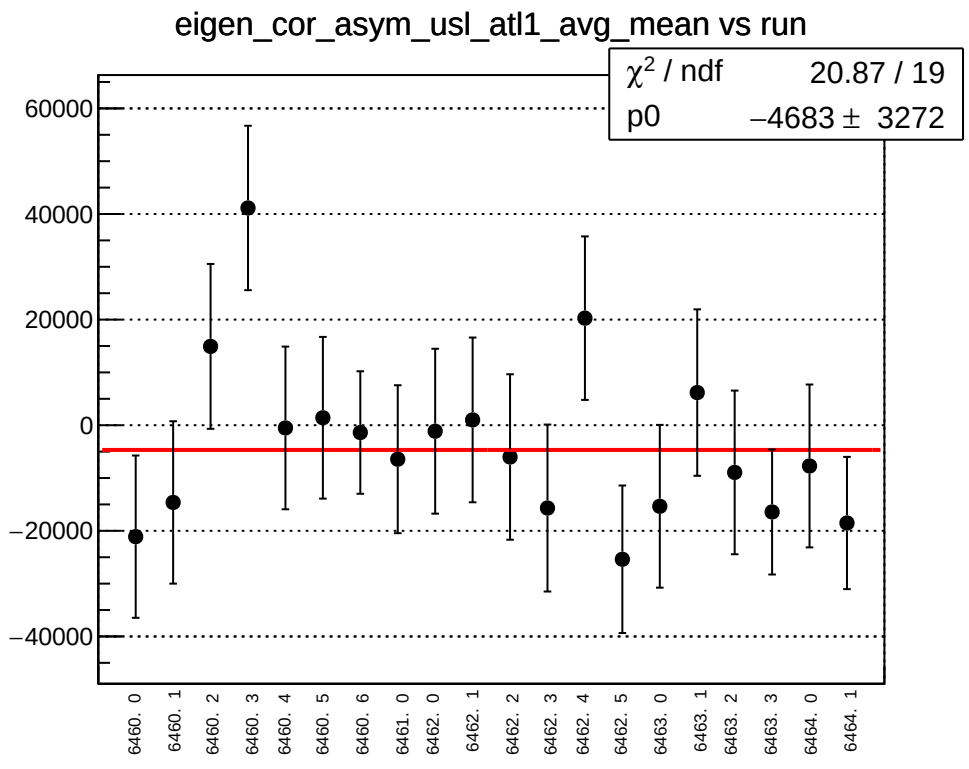

pull1D
Entries 20
Mean 0.03411
Std Dev 1.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

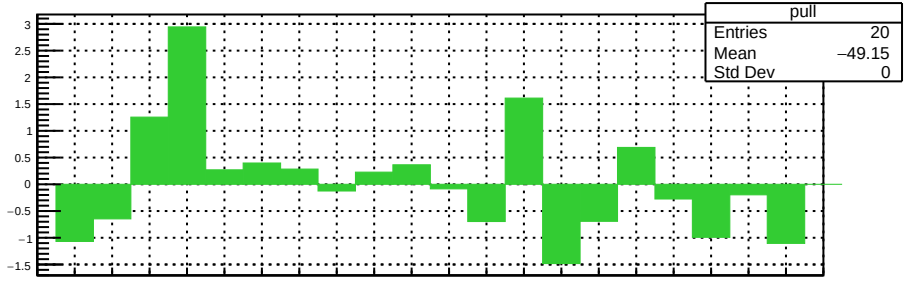

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 38.17 / 19
p0 1473 ± 2.314
1510
1500
1490
1480
1470
1460
1450
1440
1430
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

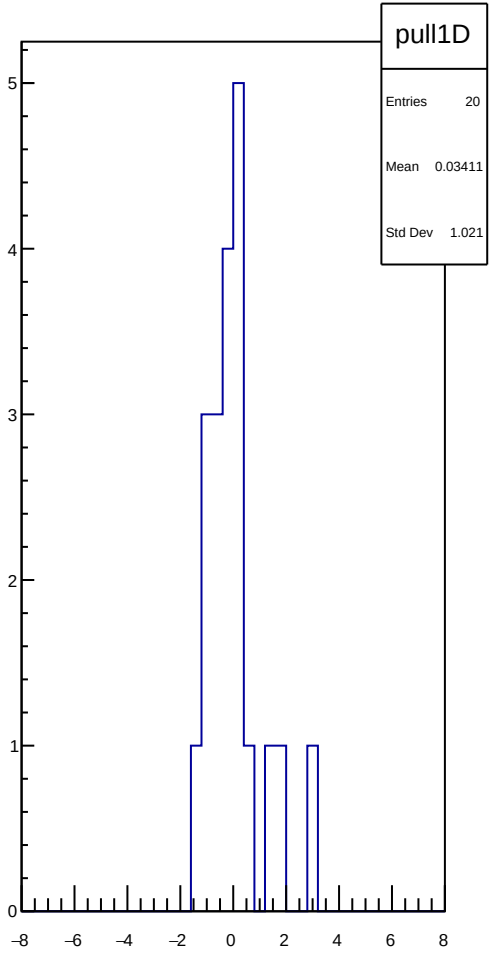

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 10.18 / 19
p0 2291 ± 2461
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 28.97
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

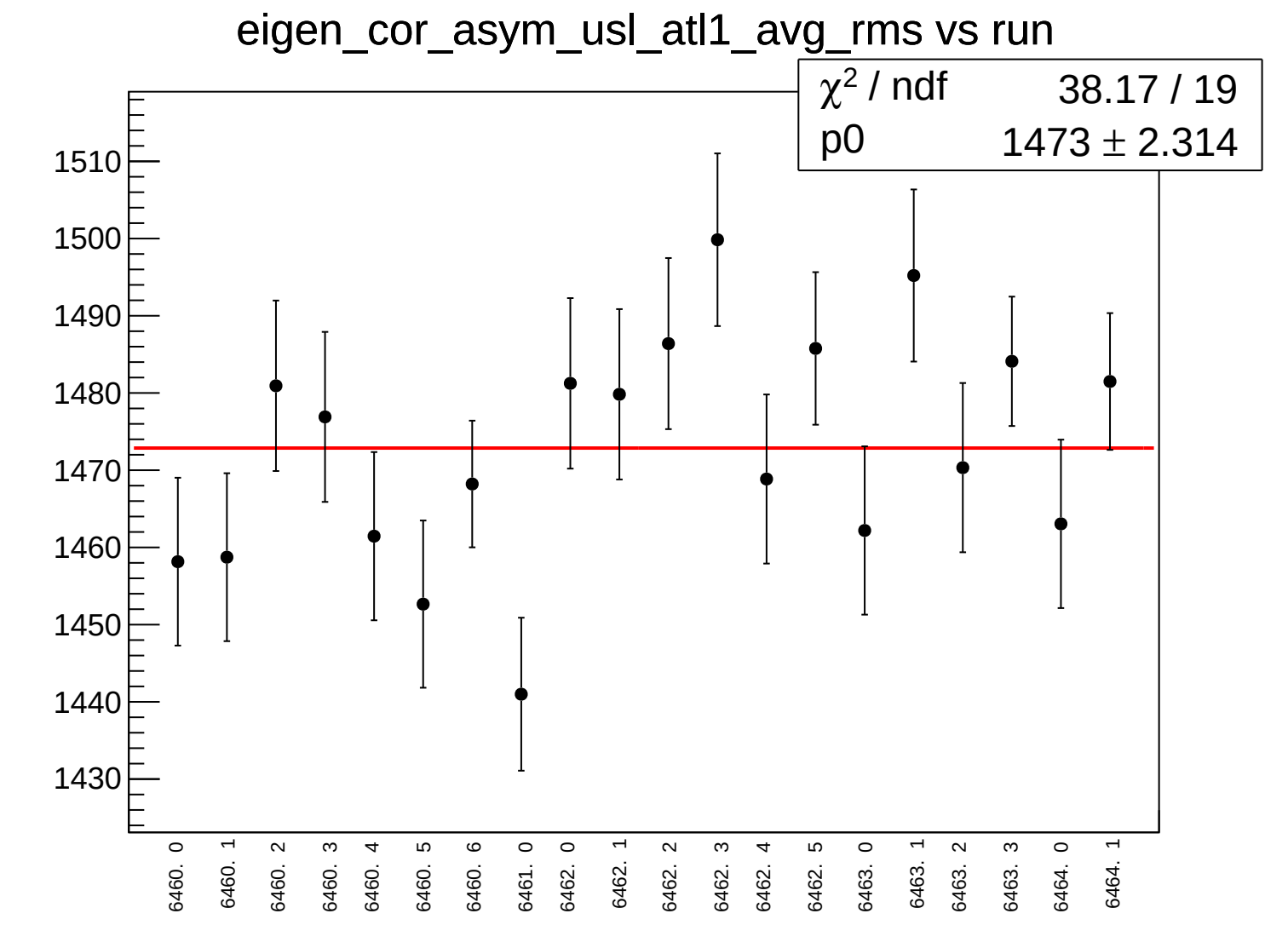

pull1D
Entries 20
Mean −0.03561
Std Dev 0.7125
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1700 / 19
p0 1105 ± 1.74
1250
1200
1150
1100
1050
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

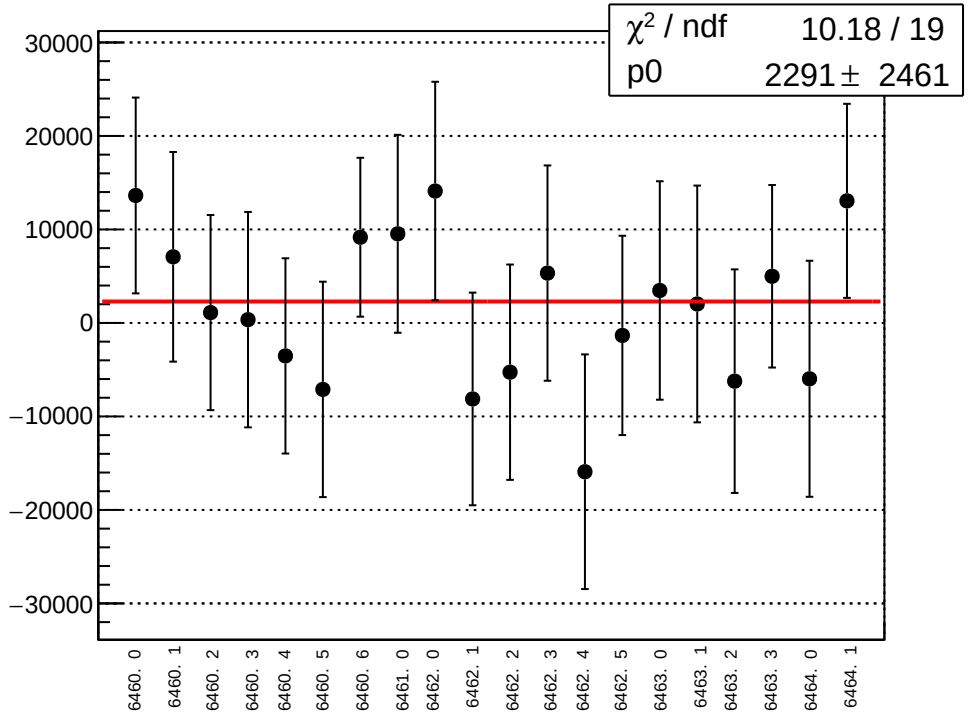

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 20.87 / 19
p0 −4683 ± 3272
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

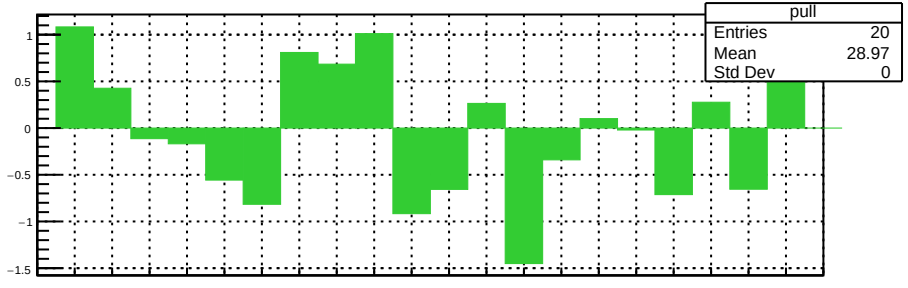

pull
Entries 20
Mean −49.15
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

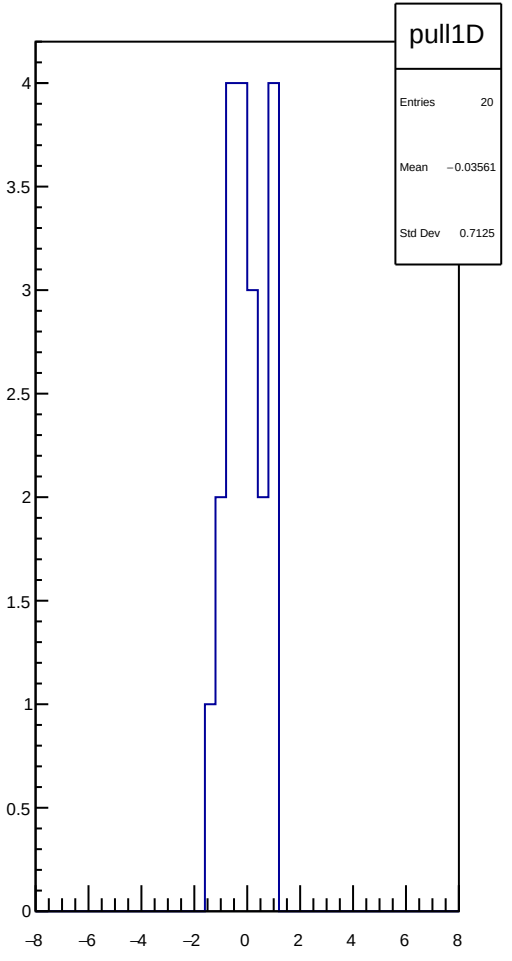

pull1D
Entries 20
Mean 0.03411
Std Dev 1.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

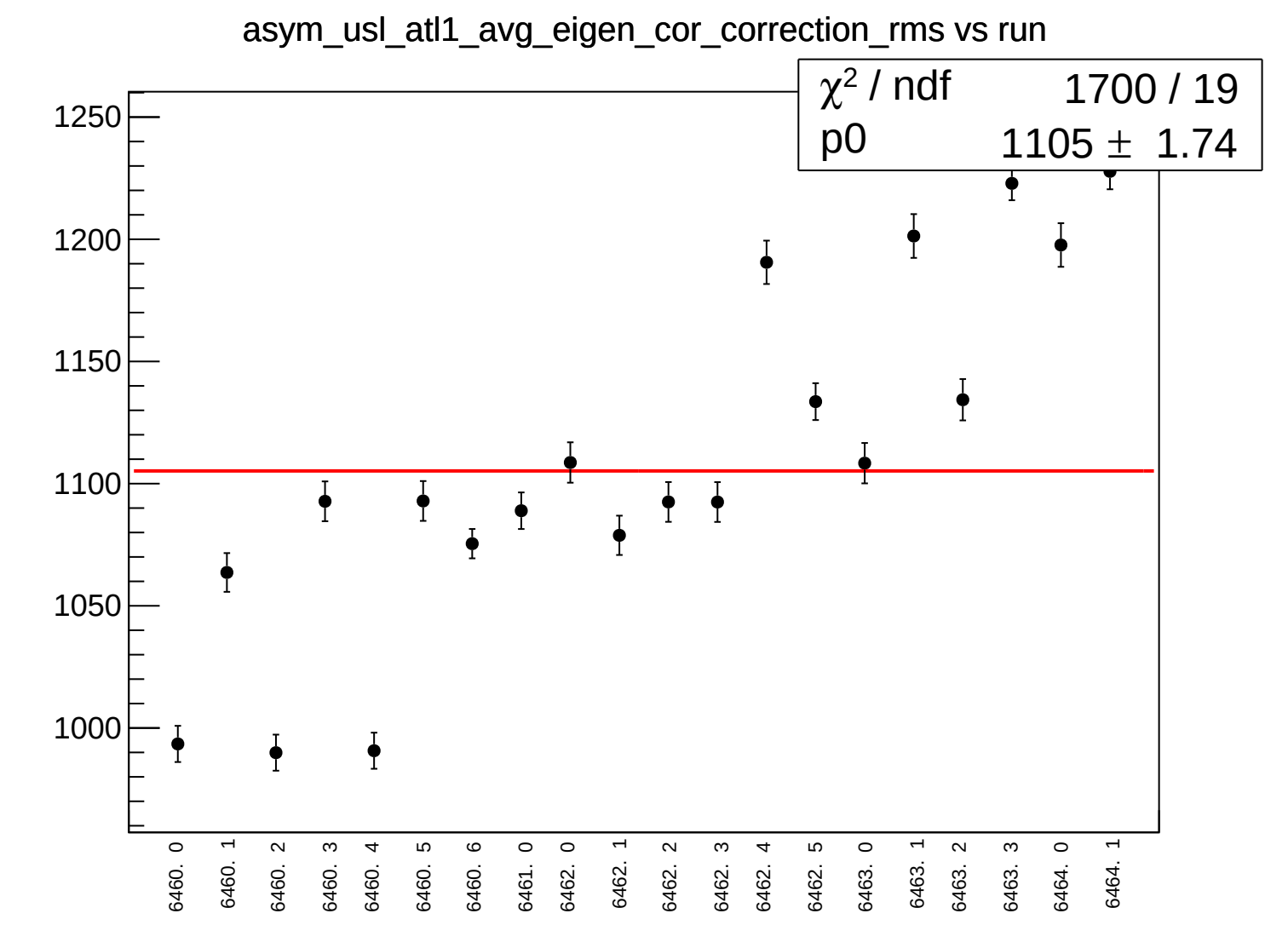

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 38.17 / 19
p0 1473 ± 2.314
1510
1500
1490
1480
1470
1460
1450
1440
1430
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

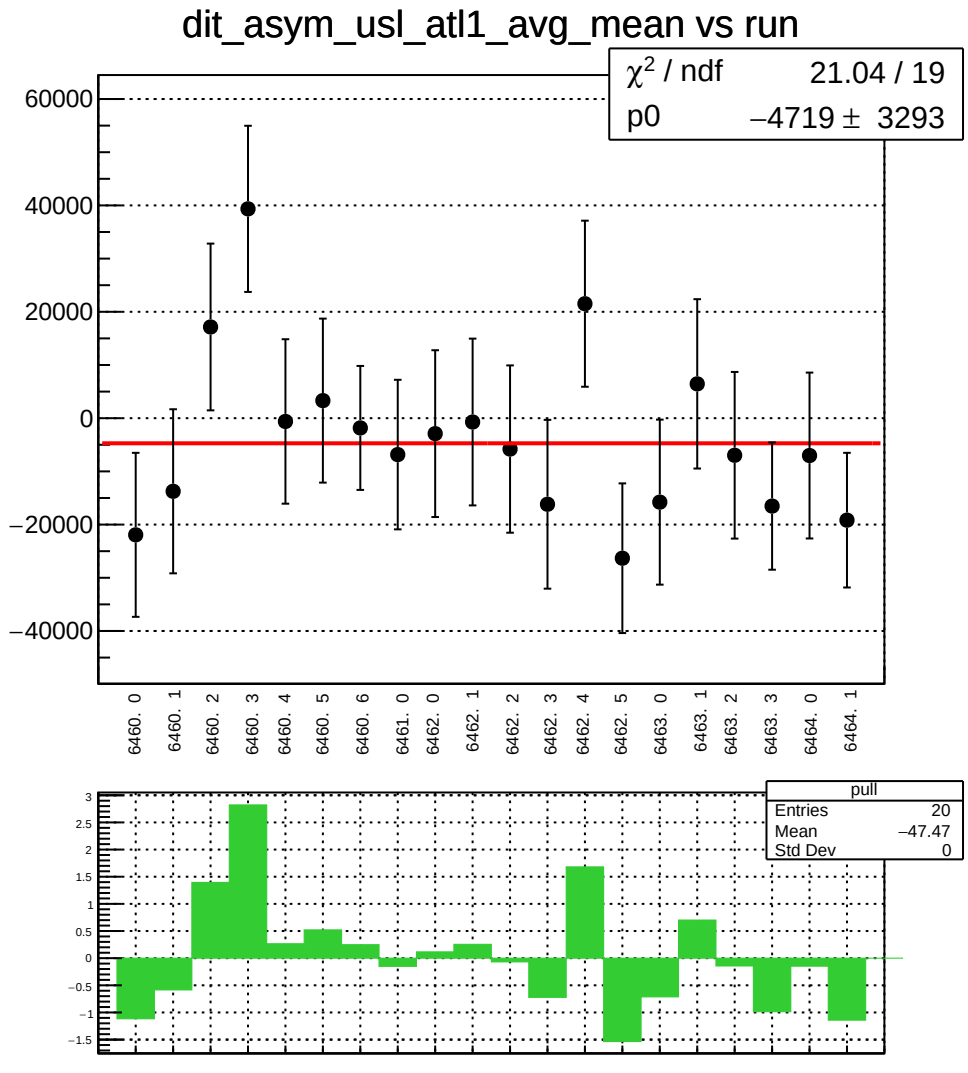
asym_usl_atl1_avg_eigen_cor_correction_mean vs run

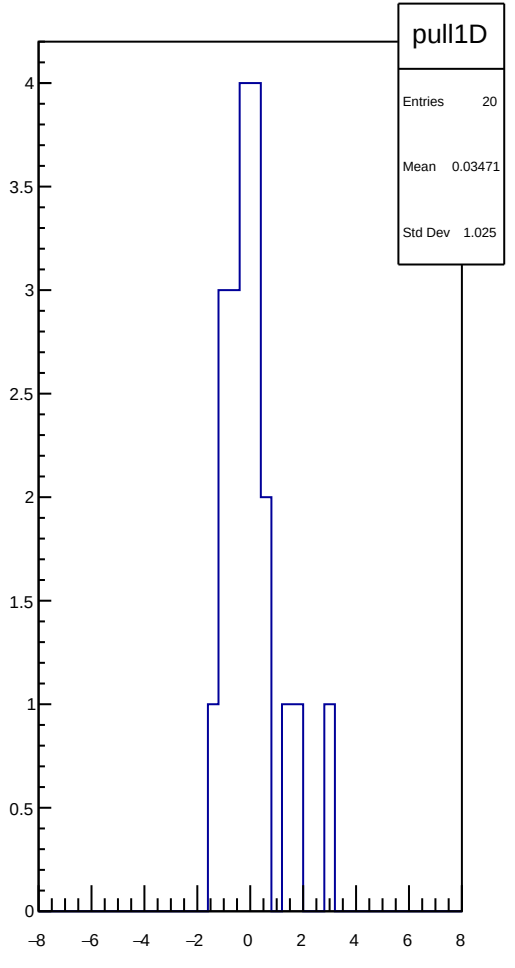


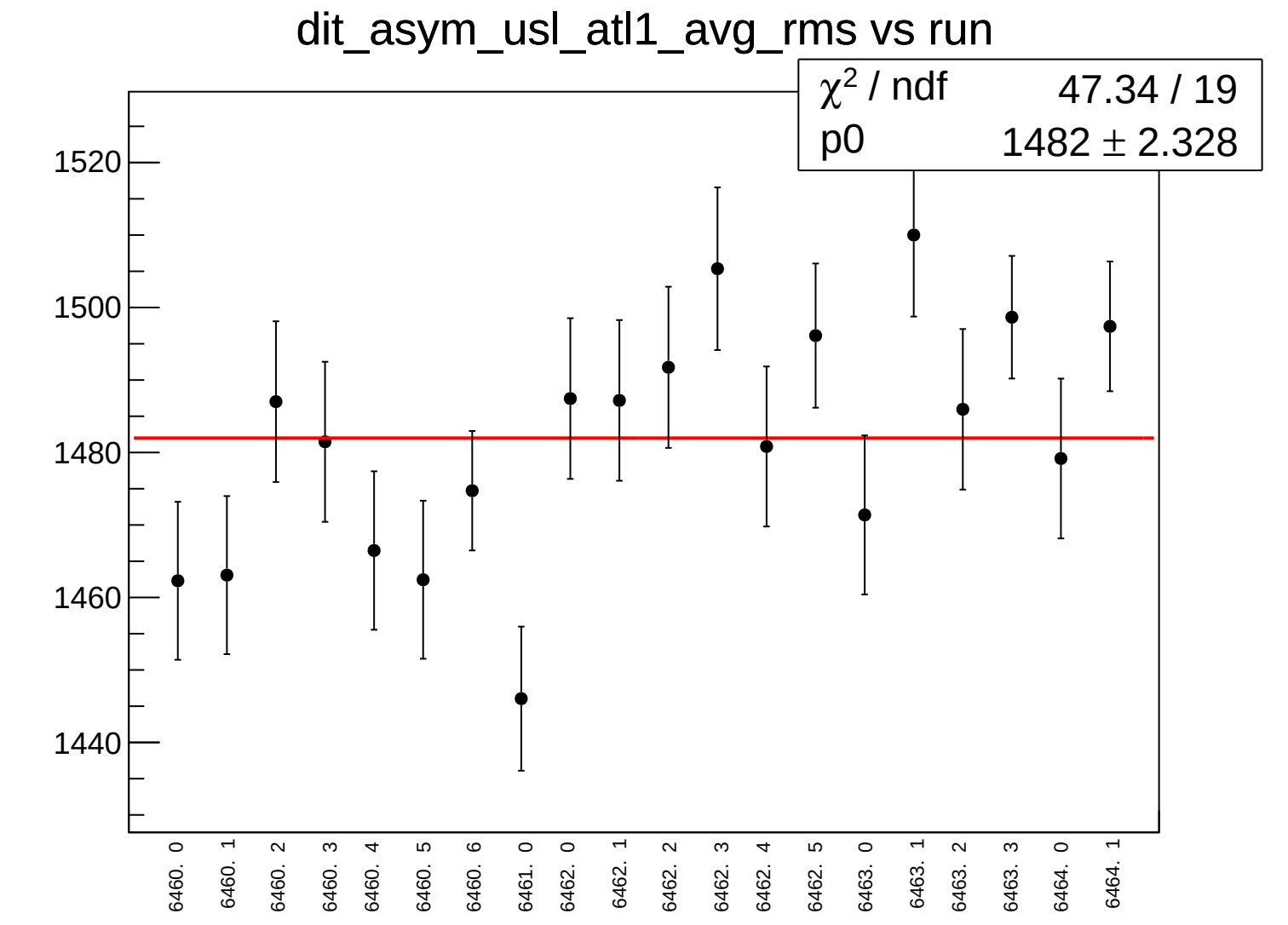


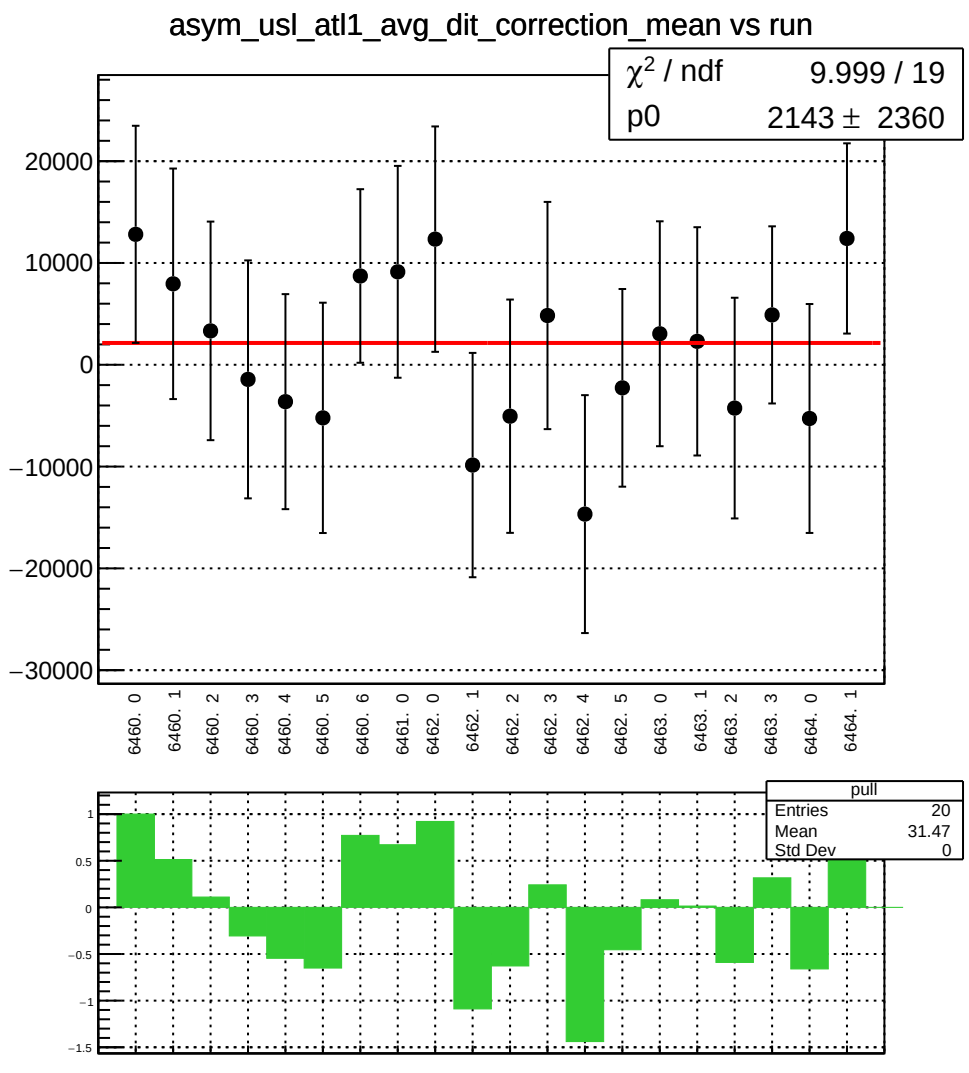


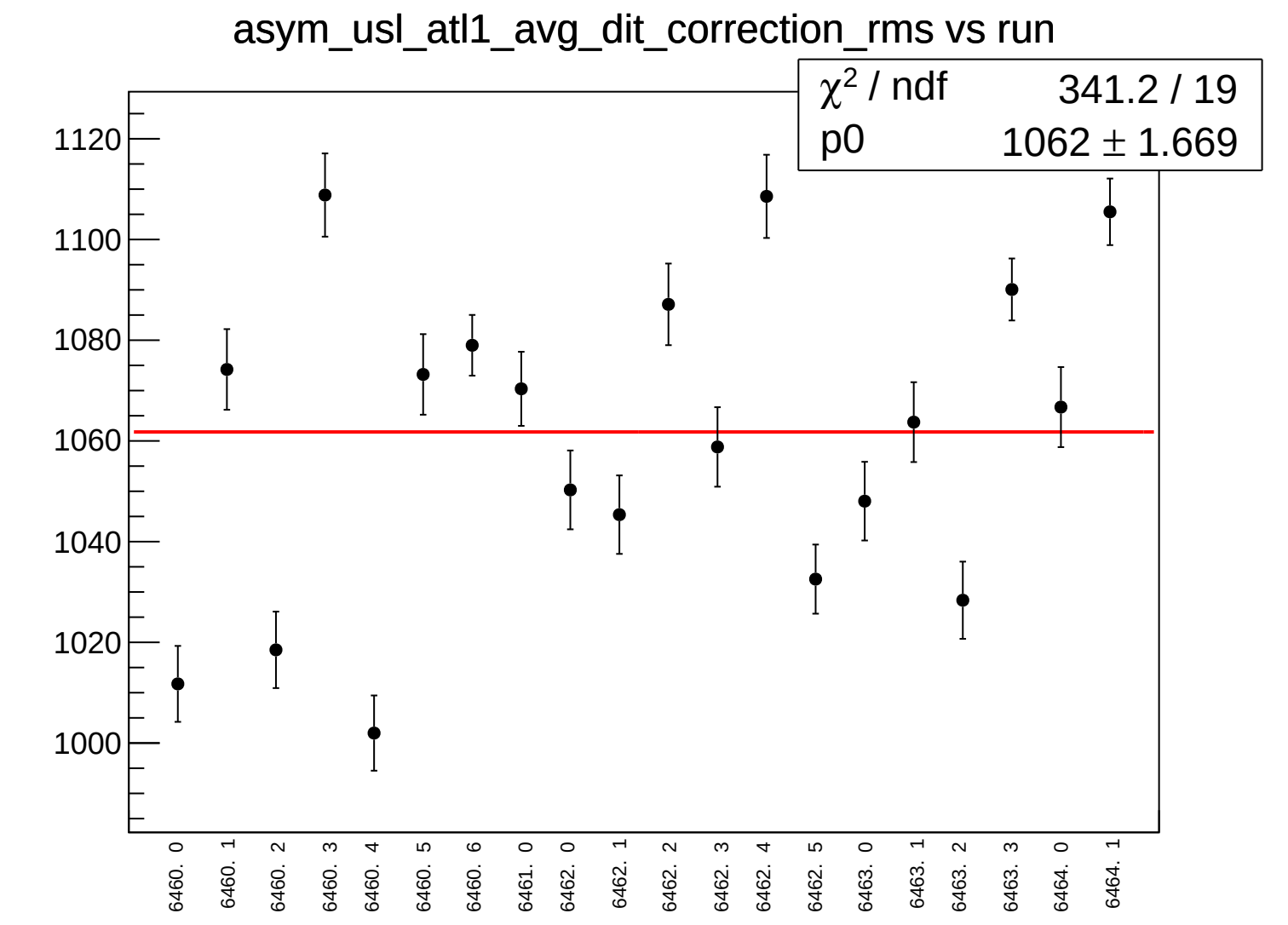

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1700 / 19
p0 1105 ± 1.74
1250
1200
1150
1100
1050
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

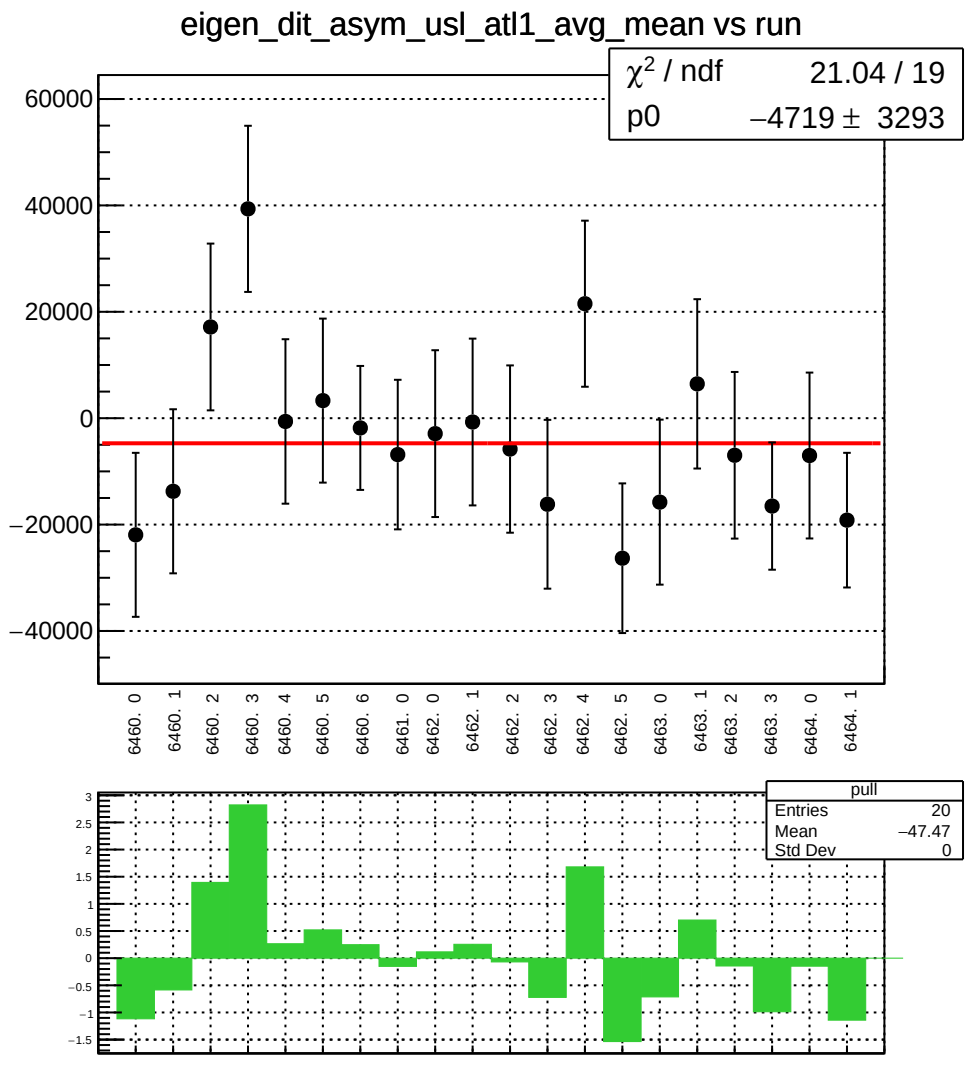

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 21.04 / 19
p0 −4719 ± 3293
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −47.47
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

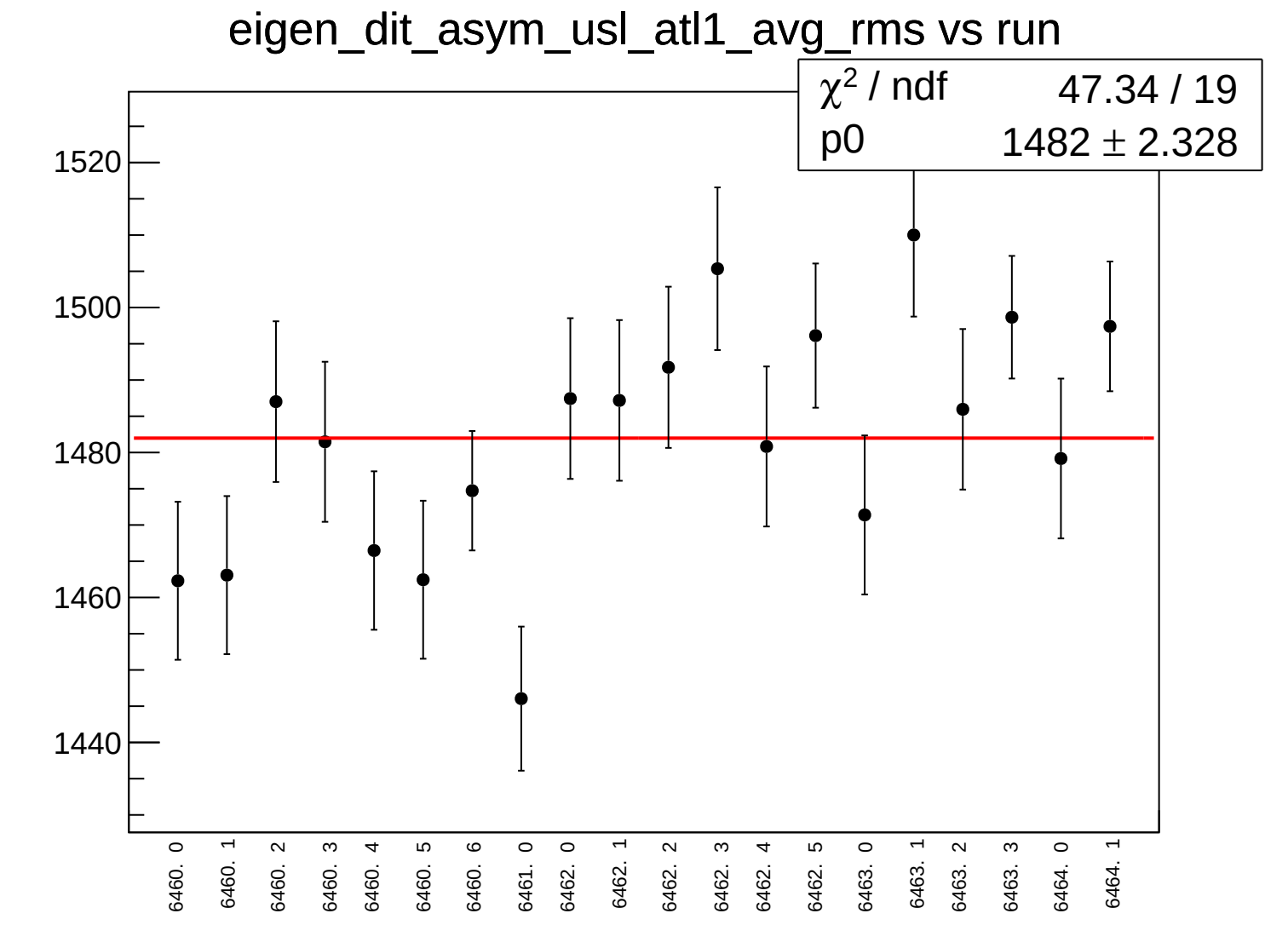

pull1D
Entries 20
Mean 0.03471
Std Dev 1.025
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

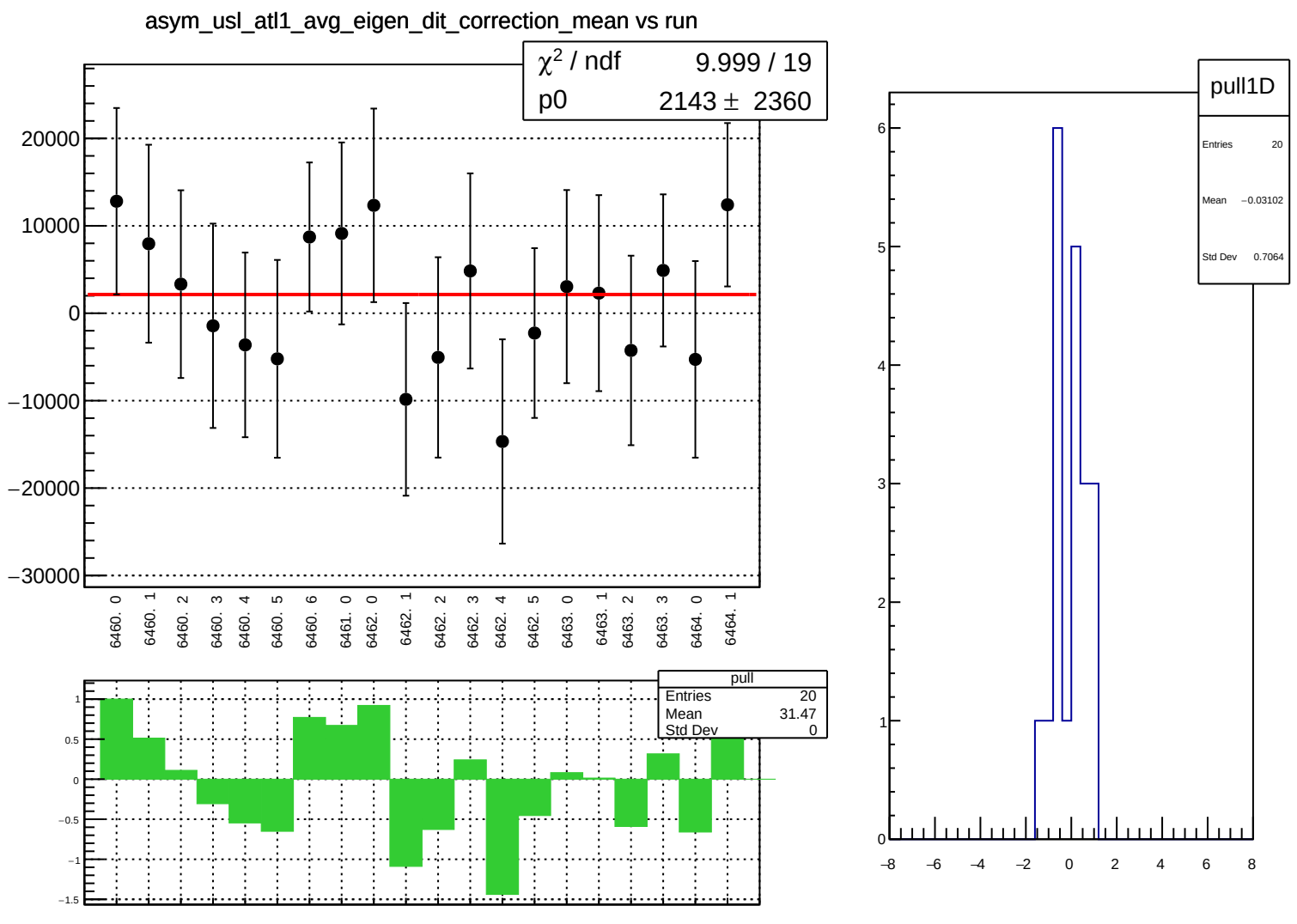

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 47.34 / 19
p0 1482 ± 2.328
1520
1500
1480
1460
1440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

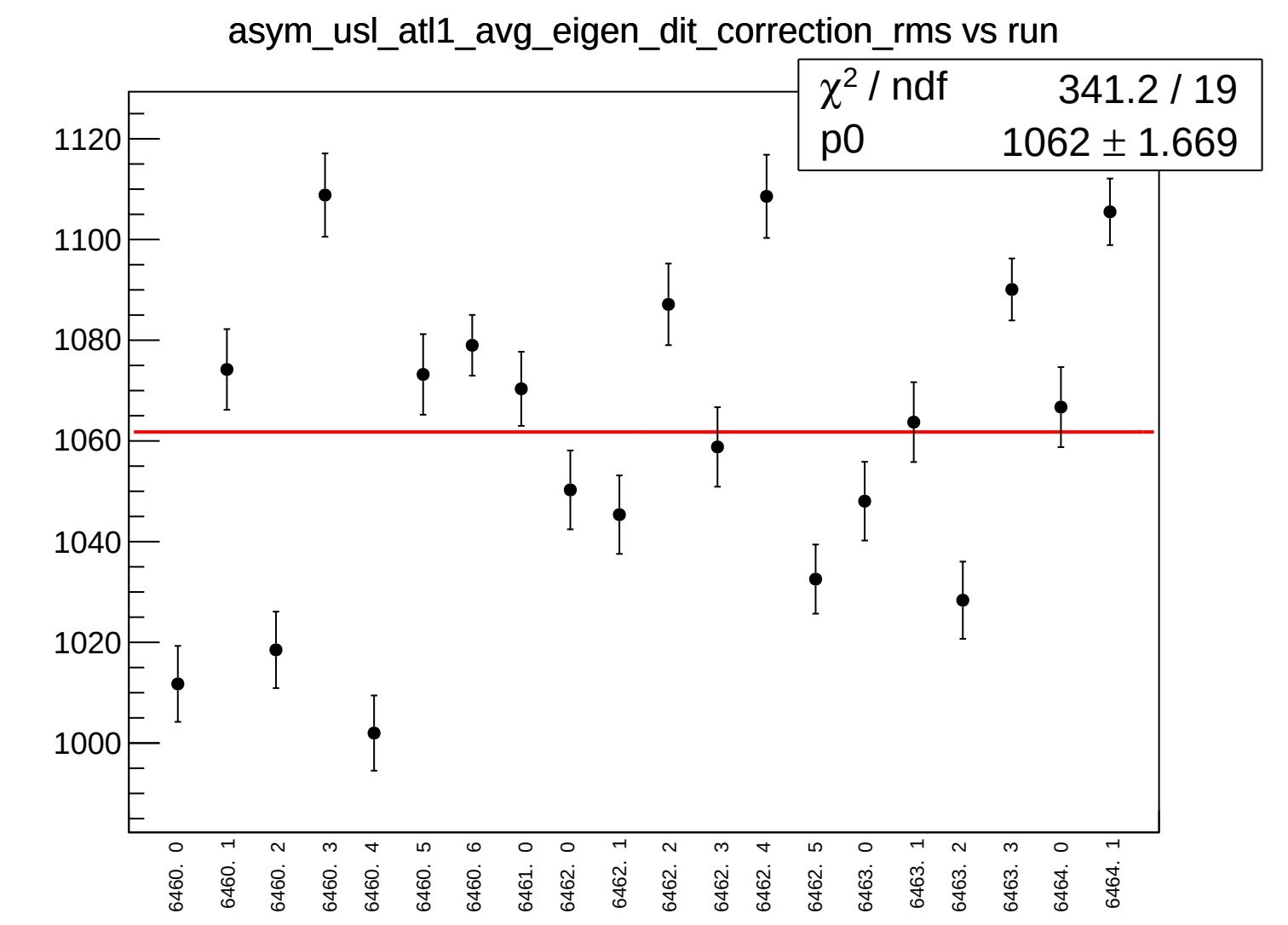

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 9.999 / 19
p0 2143 ± 2360
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.47
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03102
Std Dev 0.7064
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

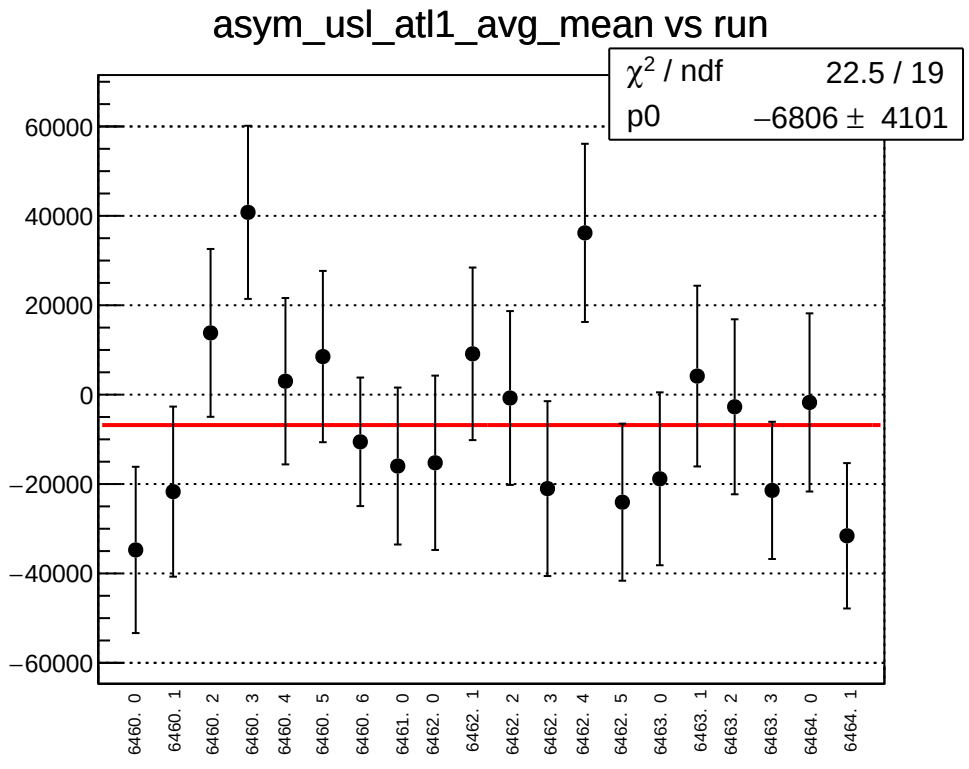

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 341.2 / 19
p0 1062 ± 1.669
1120
1100
1080
1060
1040
1020
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

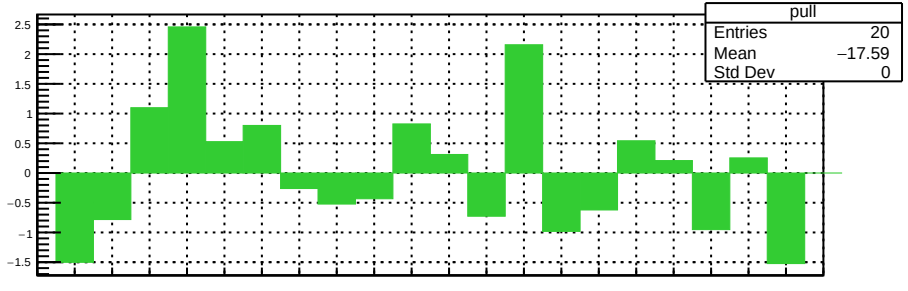

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 21.04 / 19
p0 −4719 ± 3293
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −47.47
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03471
Std Dev 1.025
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

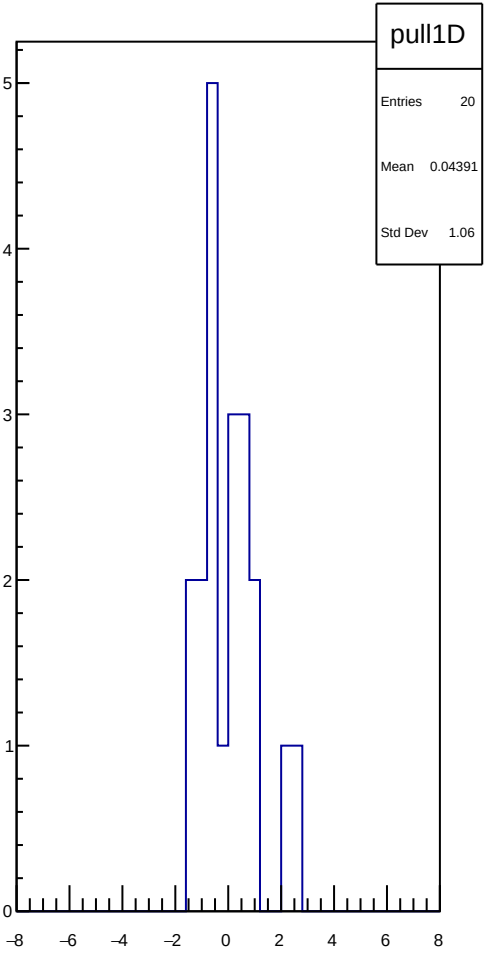

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 47.34 / 19
p0 1482 ± 2.328
1520
1500
1480
1460
1440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

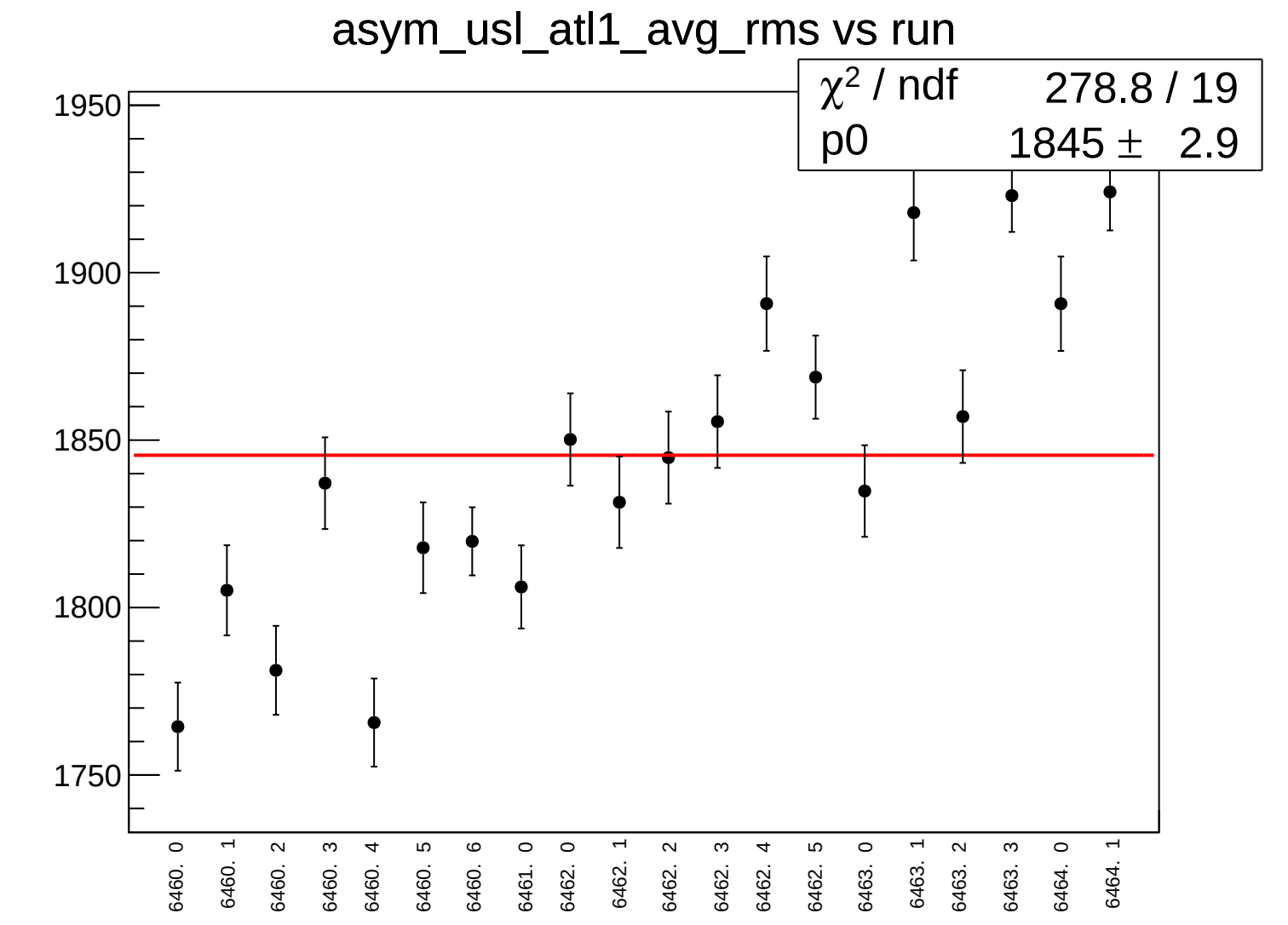

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 9.999 / 19
p0 2143 ± 2360
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.47
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03102
Std Dev 0.7064
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

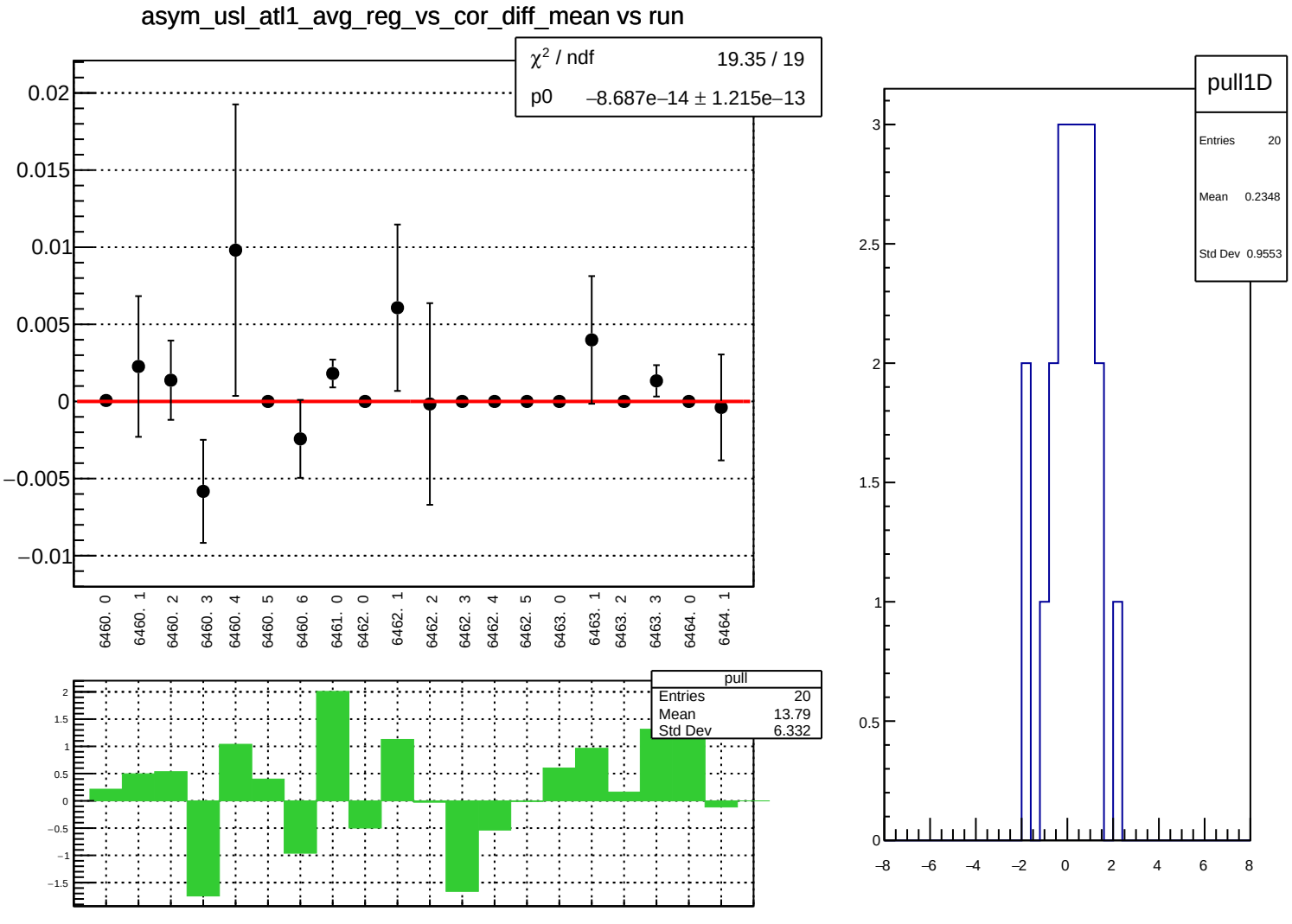

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 341.2 / 19
p0 1062 ± 1.669
1120
1100
1080
1060
1040
1020
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

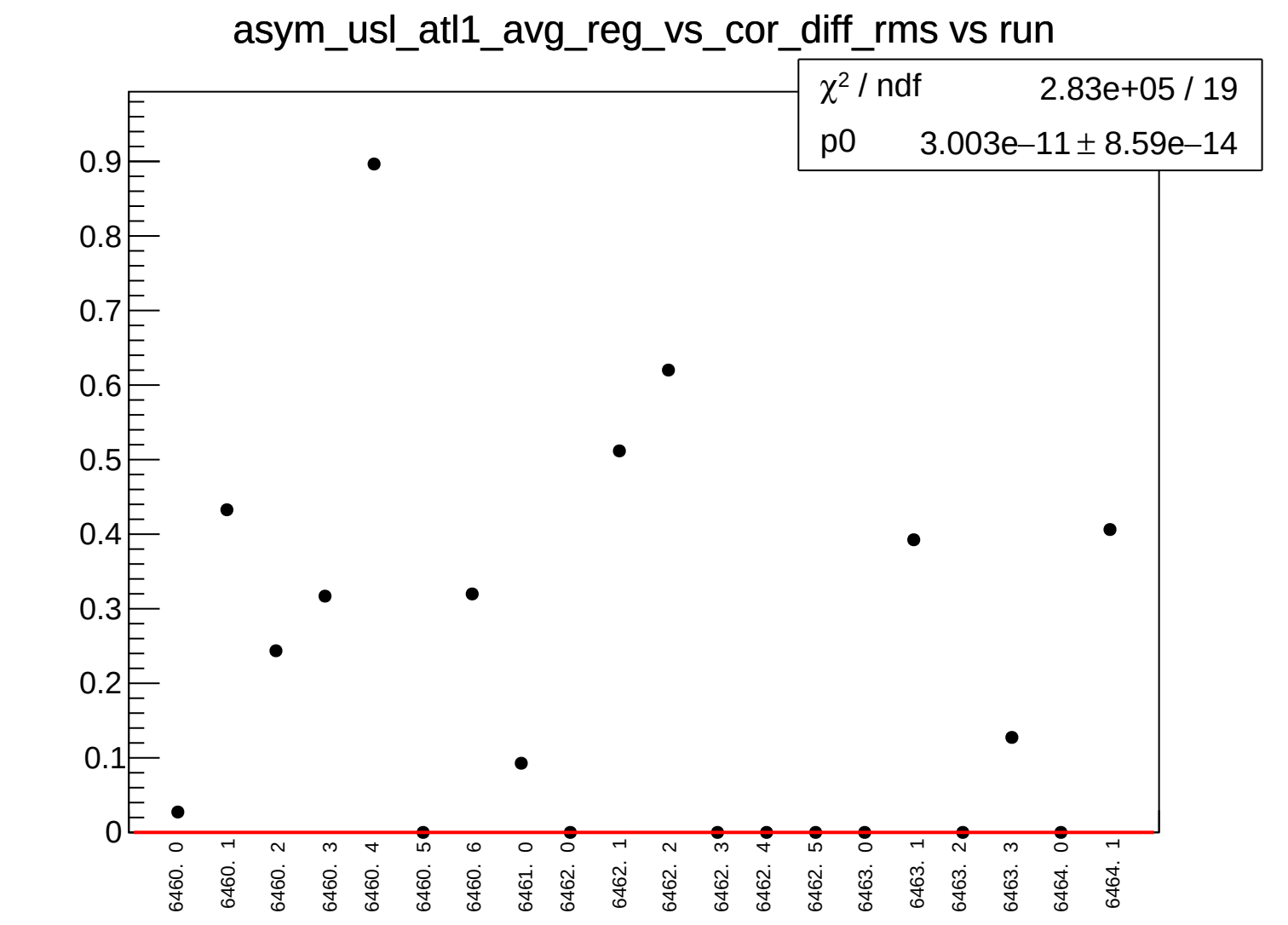

asym_usl_atl1_avg_mean vs run
χ² / ndf 22.5 / 19
p0 −6806 ± 4101
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

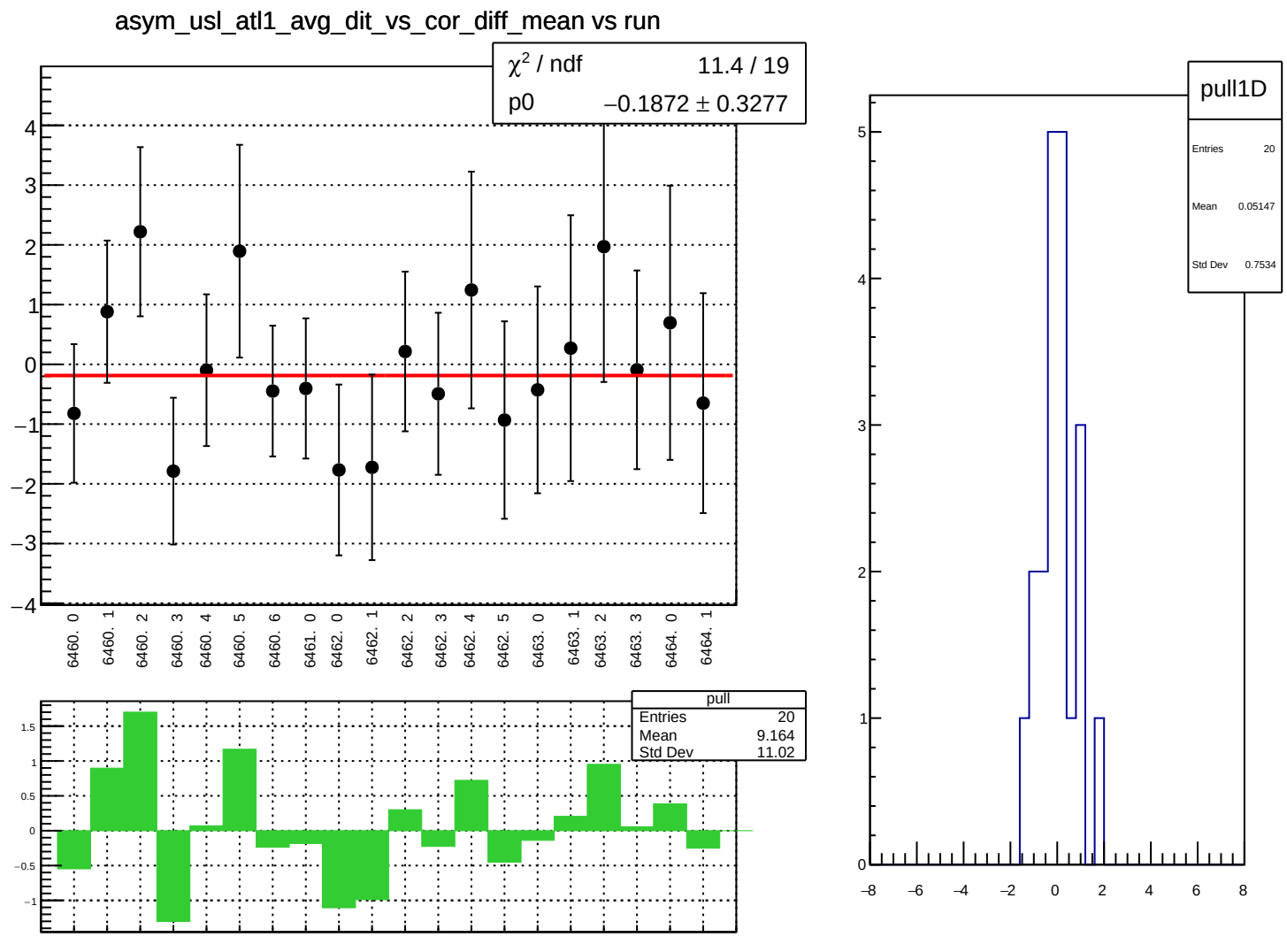

pull
Entries 20
Mean −17.59
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

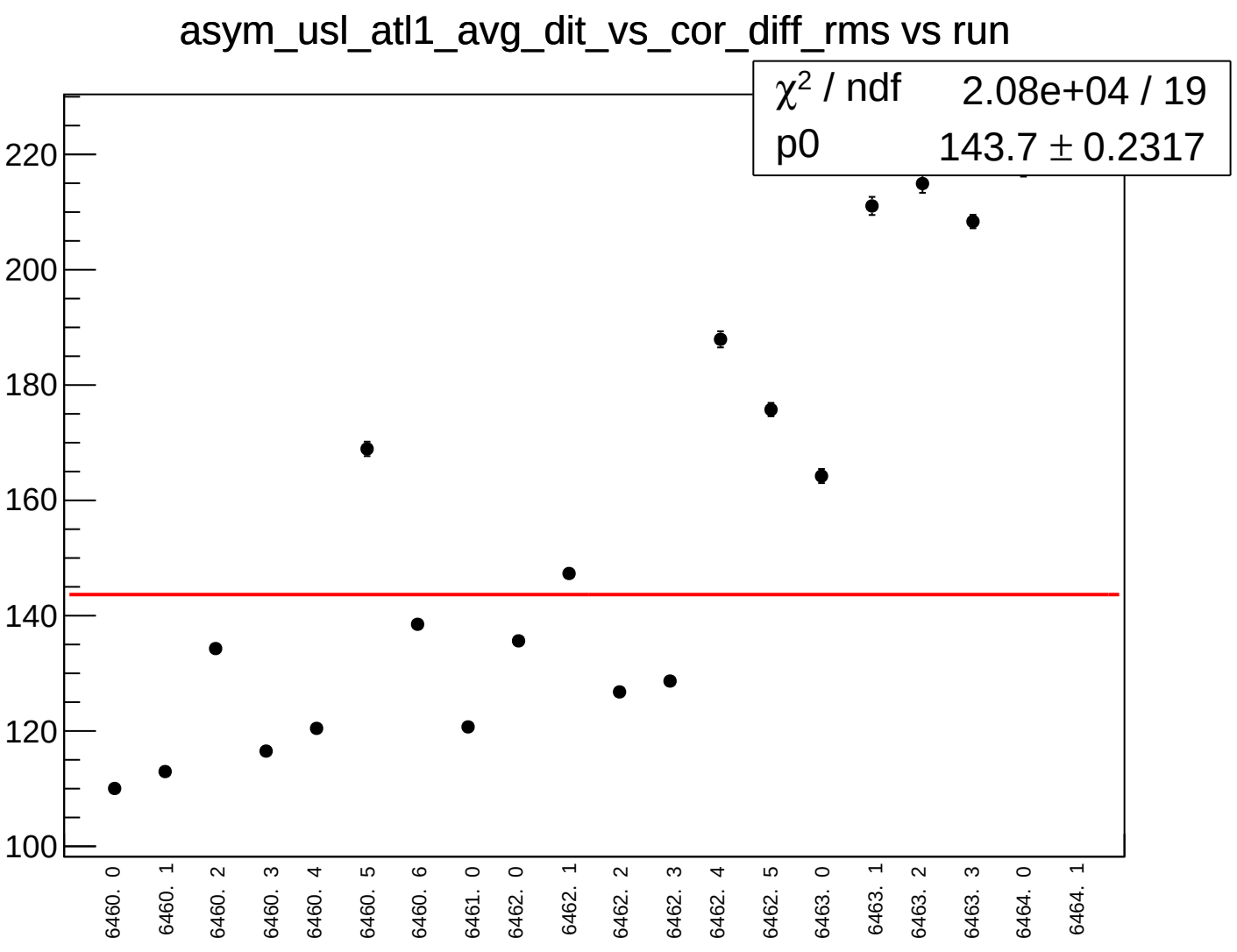

pull1D
Entries 20
Mean 0.04391
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

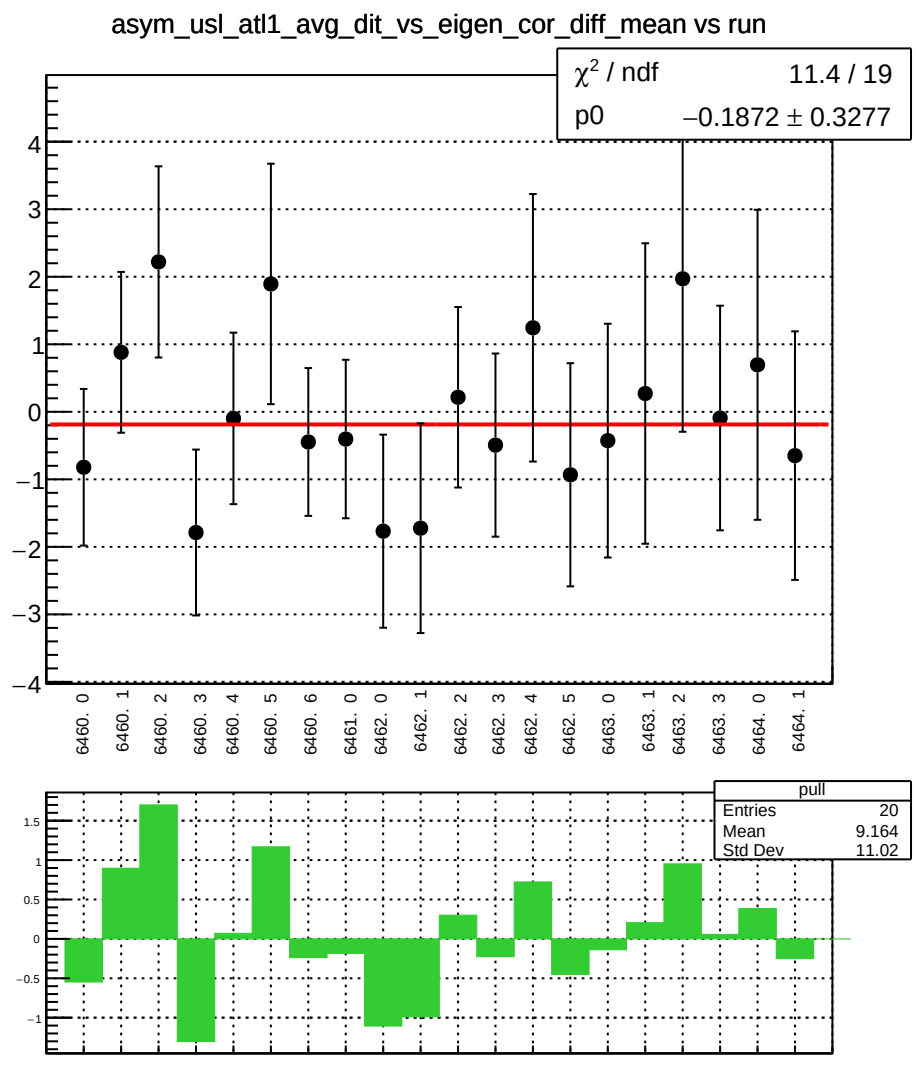

asym_usl_atl1_avg_rms vs run
χ² / ndf 278.8 / 19
p0 1845 ± 2.9
1950
1900
1850
1800
1750
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

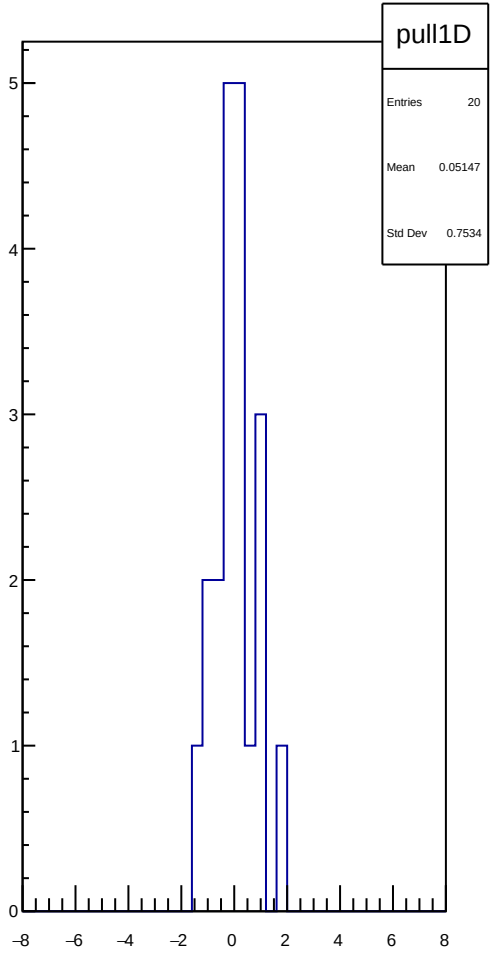

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 19.35 / 19
p0 −8.687e−14 ± 1.215e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.79
Std Dev 6.332
pull1D
Entries 20
Mean 0.2348
Std Dev 0.9553

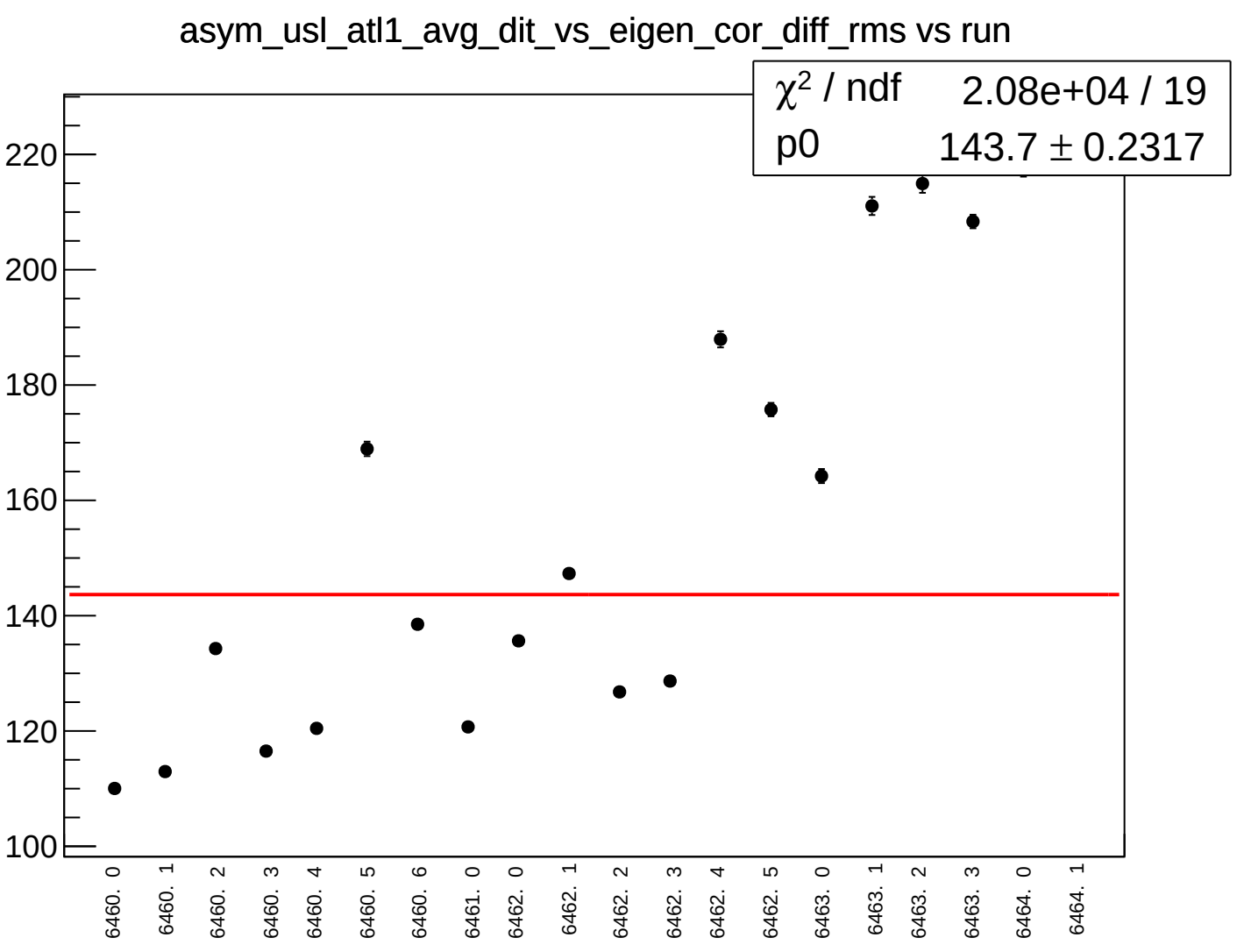

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.83e+05 / 19
p0 3.003e−11 ± 8.59e−14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

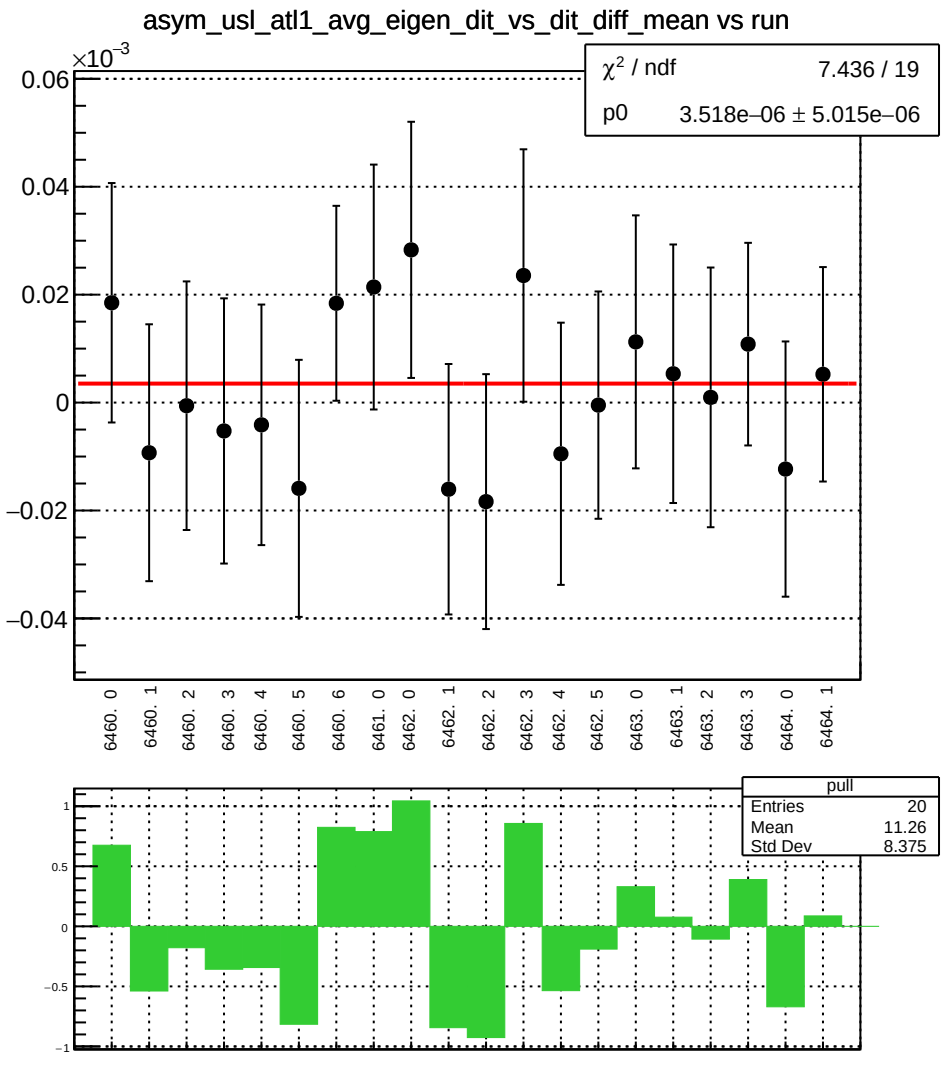

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 11.4 / 19
p0 −0.1872 ± 0.3277
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.164
Std Dev 11.02
pull1D
Entries 20
Mean 0.05147
Std Dev 0.7534

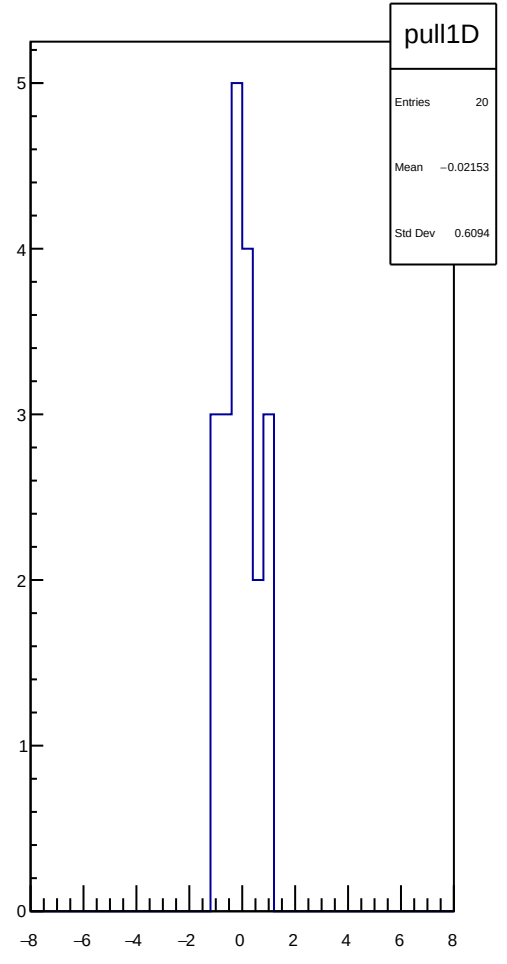

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.08e+04 / 19
p0 143.7 ± 0.2317
220
200
180
160
140
120
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

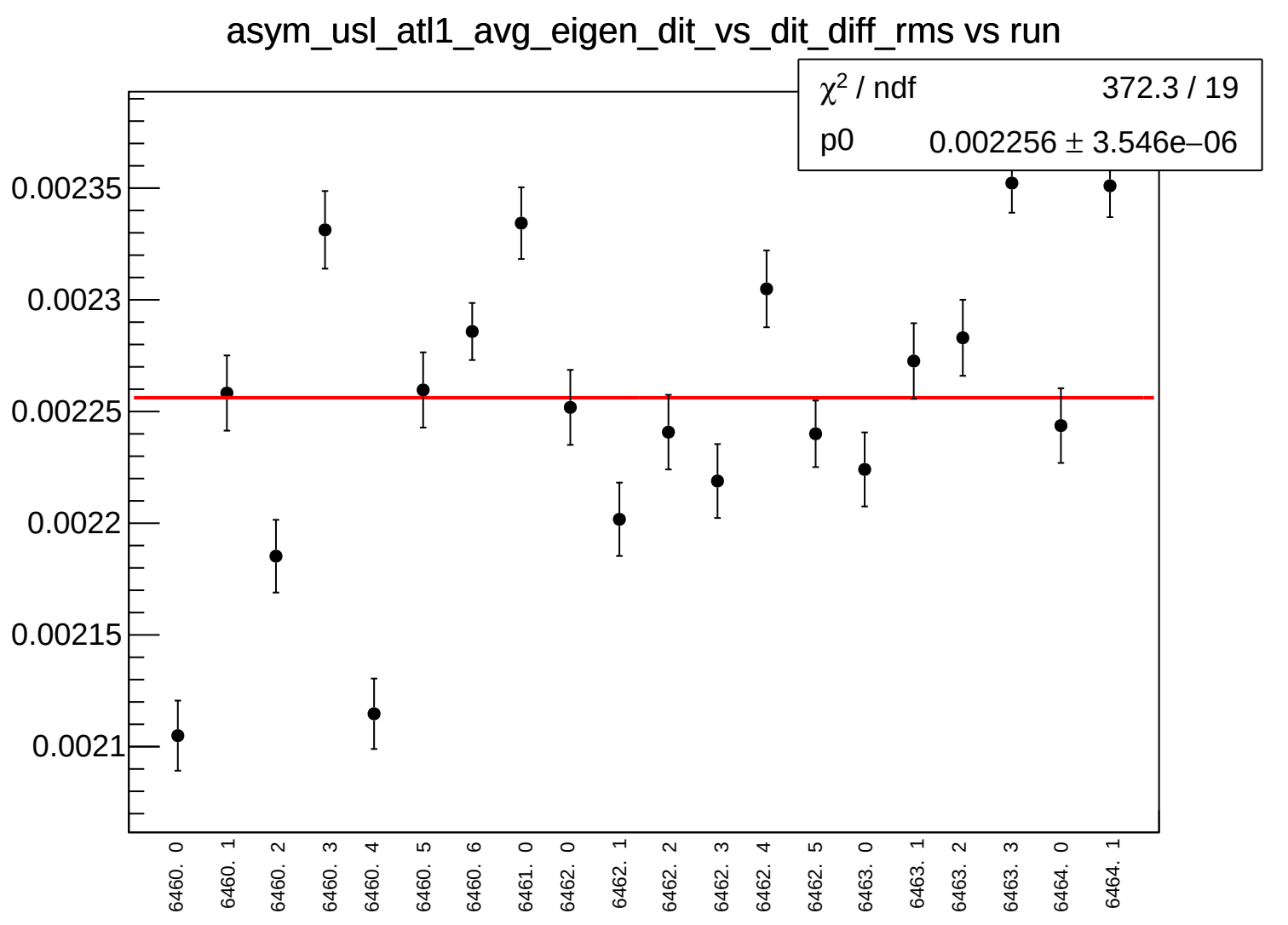

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.4 / 19
p0 −0.1872 ± 0.3277
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.164
Std Dev 11.02

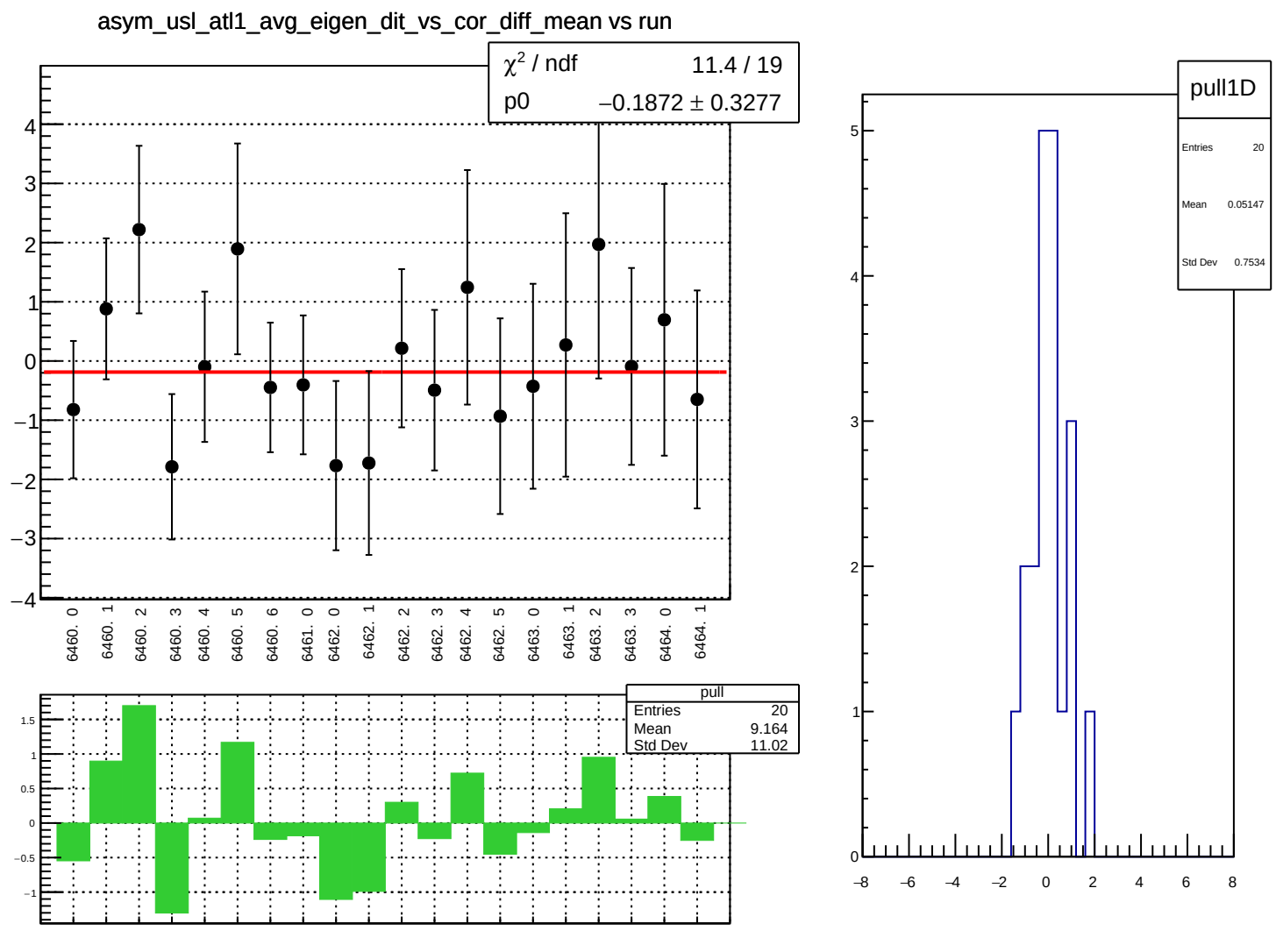

pull1D
Entries 20
Mean 0.05147
Std Dev 0.7534

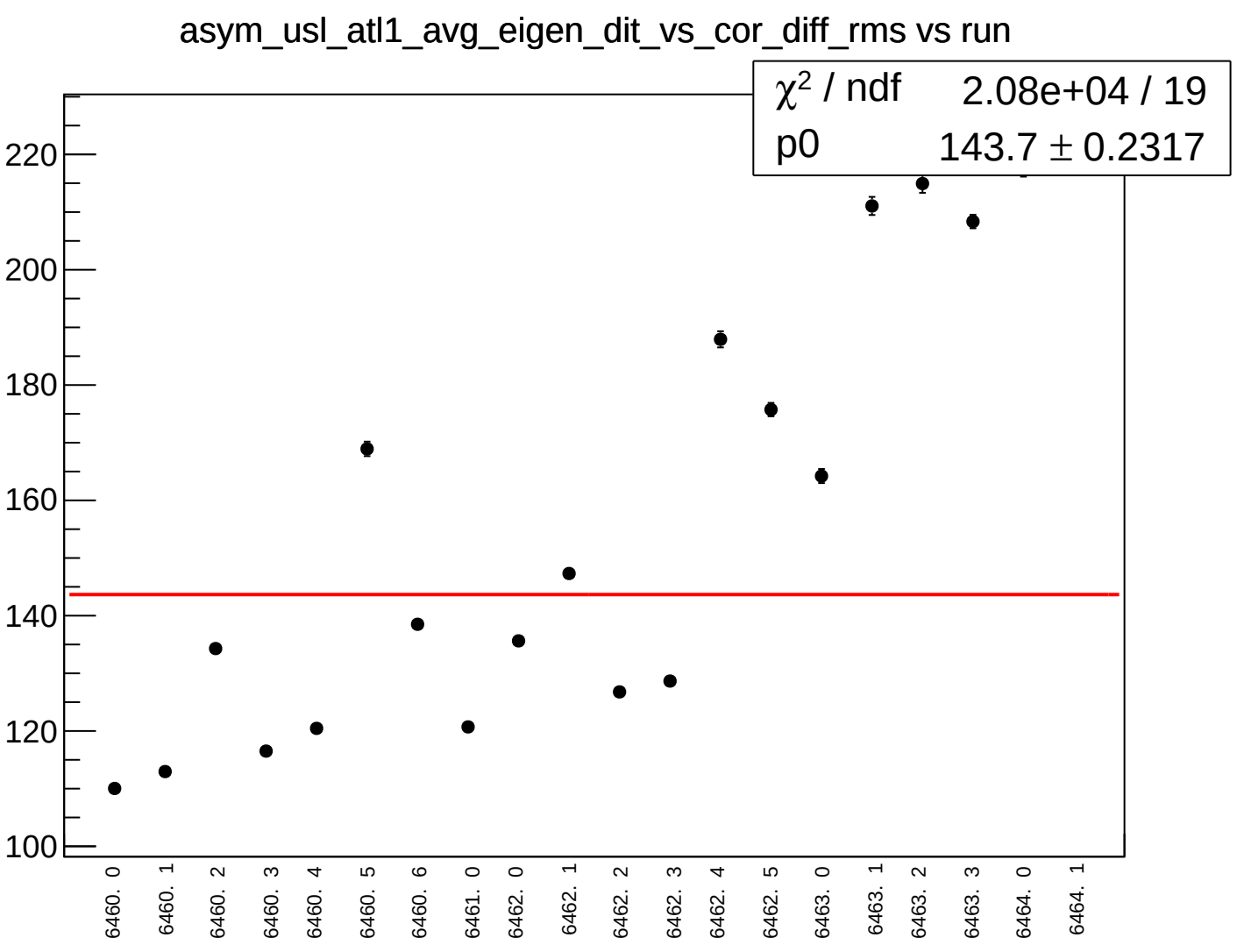

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.08e+04 / 19
p0 143.7 ± 0.2317
220
200
180
160
140
120
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

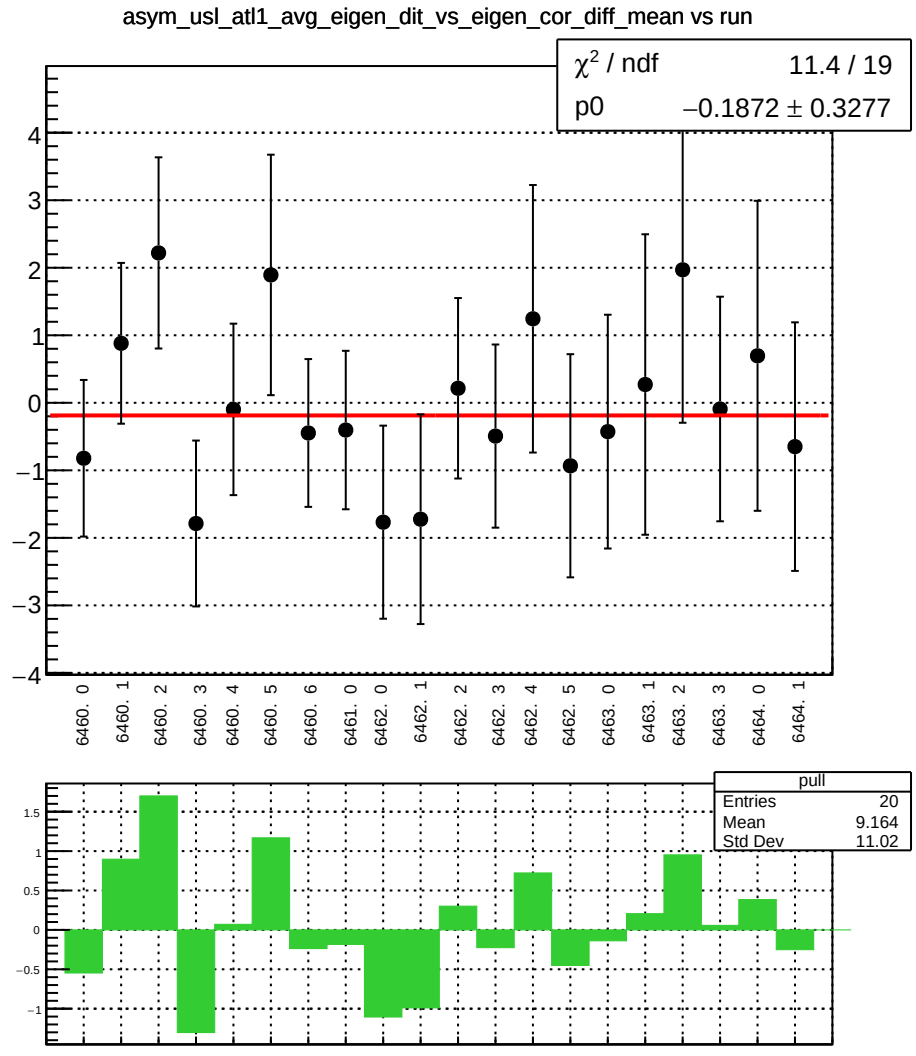

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 7.436 / 19
p0 3.518e−06 ± 5.015e−06
0.06
0.04
0.02
0
−0.02
−0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 11.26
Std Dev 8.375
1
0.5
0
−0.5
−1

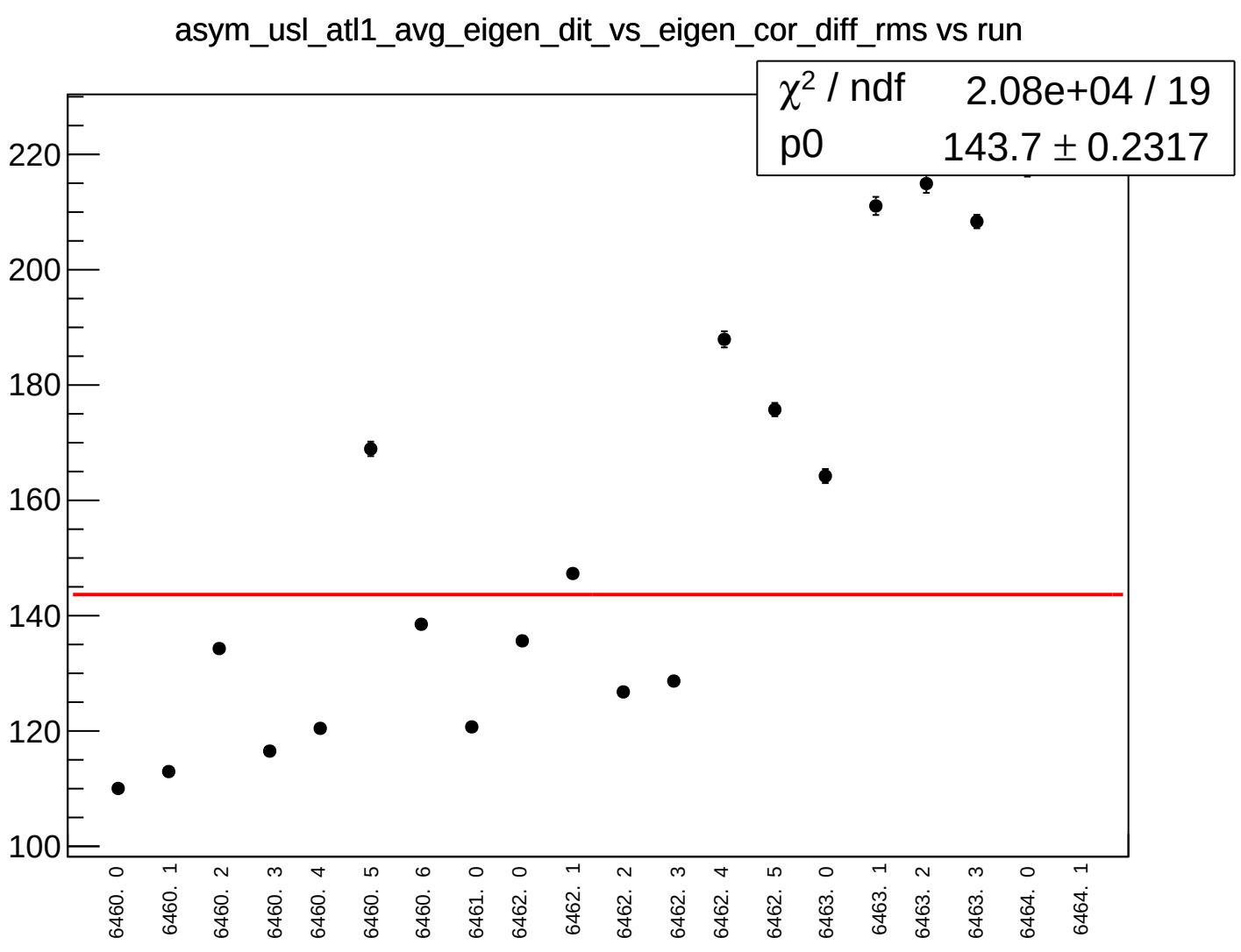

pull1D
Entries 20
Mean −0.02153
Std Dev 0.6094
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

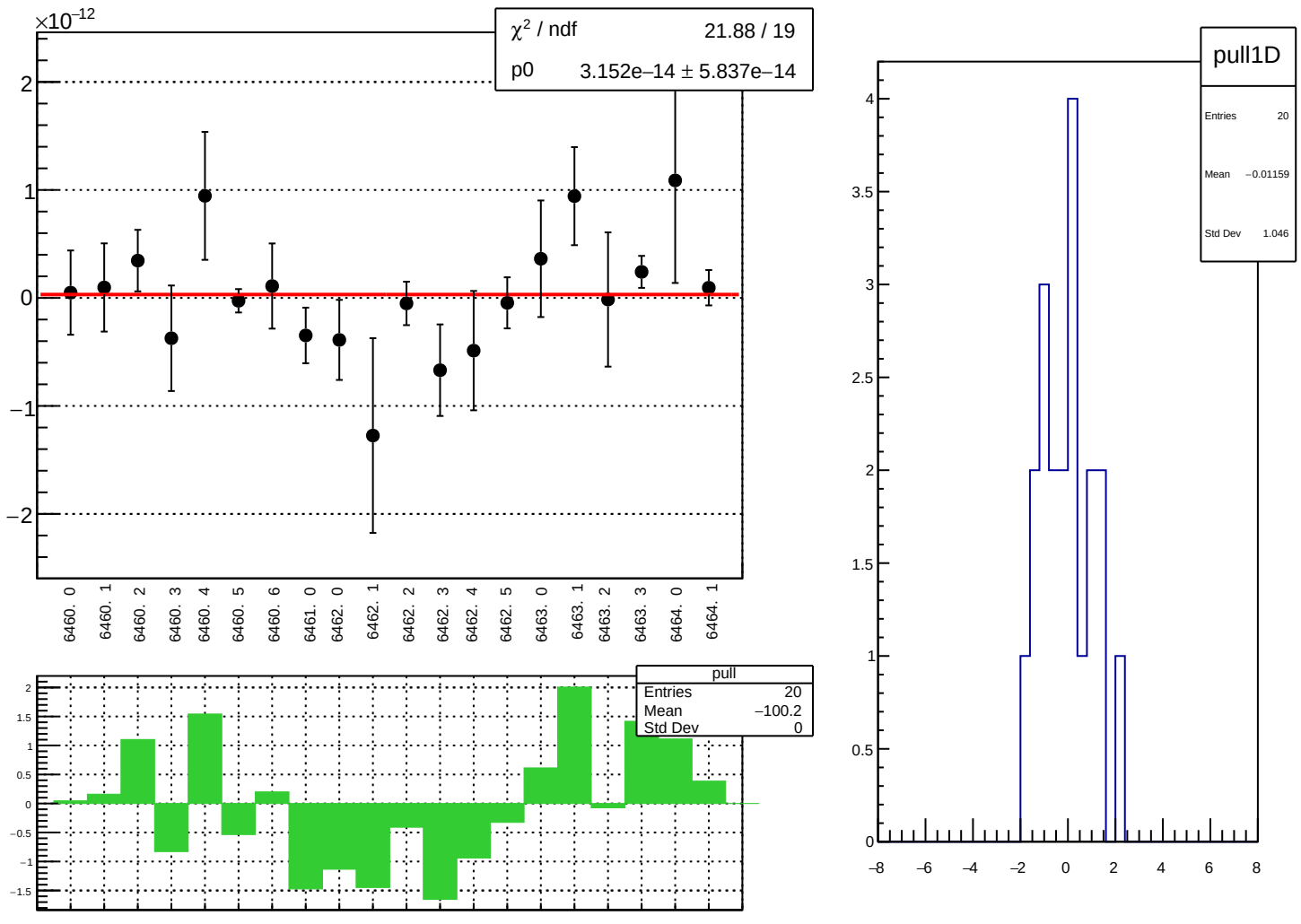

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 372.3 / 19
p0 0.002256 ± 3.546e−06
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

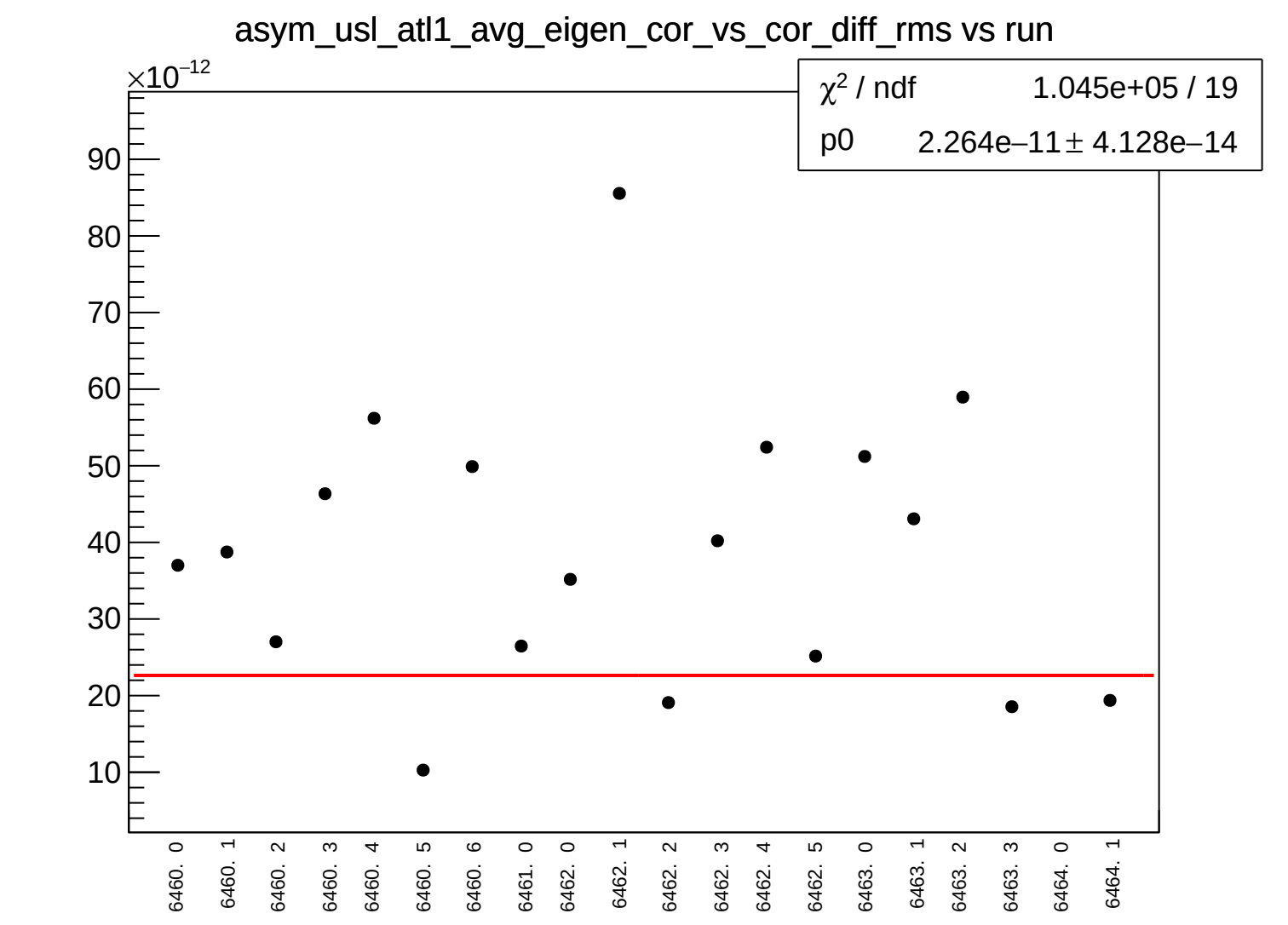

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 11.4 / 19
p0 −0.1872 ± 0.3277
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.164
Std Dev 11.02
pull1D
Entries 20
Mean 0.05147
Std Dev 0.7534

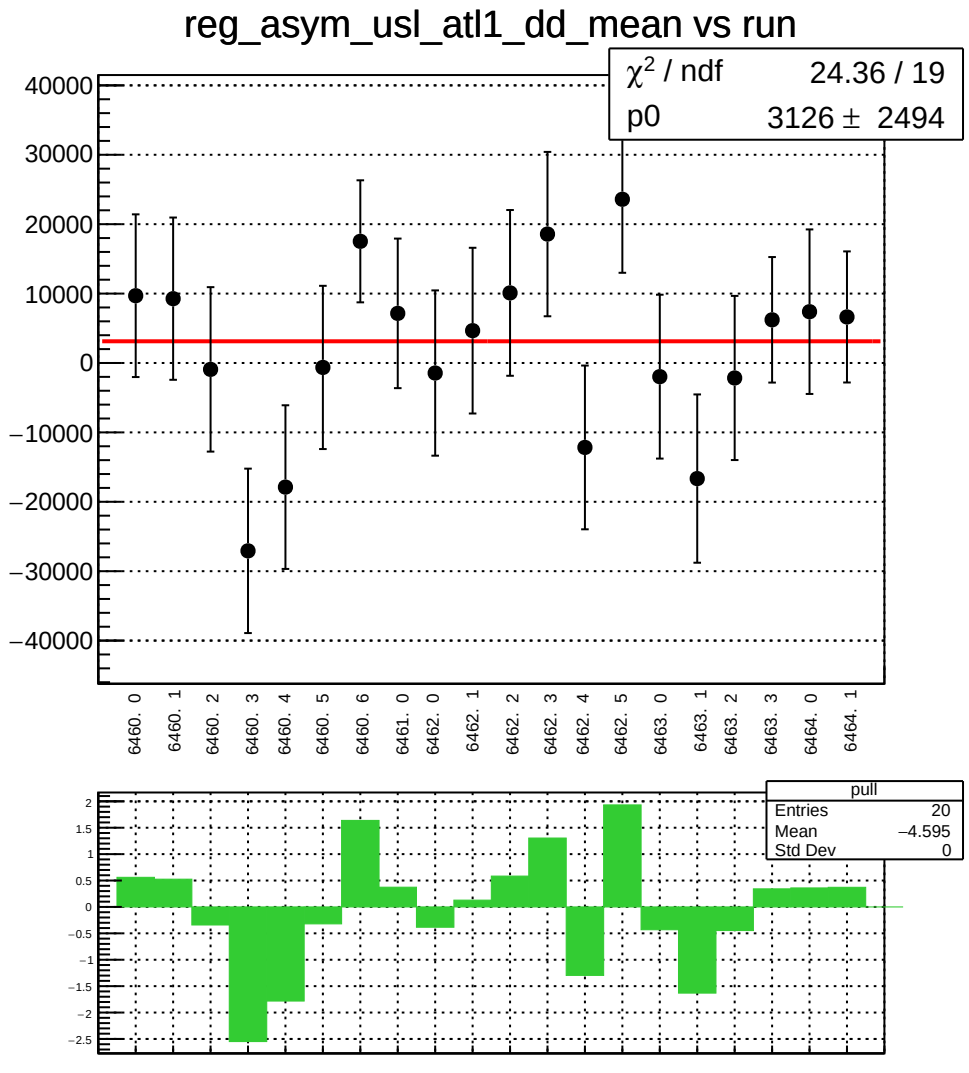

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.08e+04 / 19
p0 143.7 ± 0.2317
220
200
180
160
140
120
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

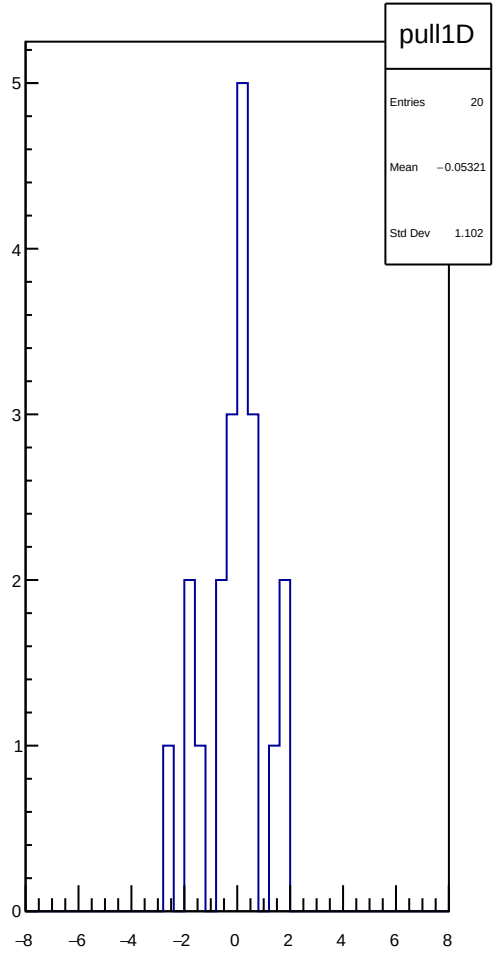

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.4 / 19
p0 −0.1872 ± 0.3277
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.164
Std Dev 11.02
pull1D
Entries 20
Mean 0.05147
Std Dev 0.7534

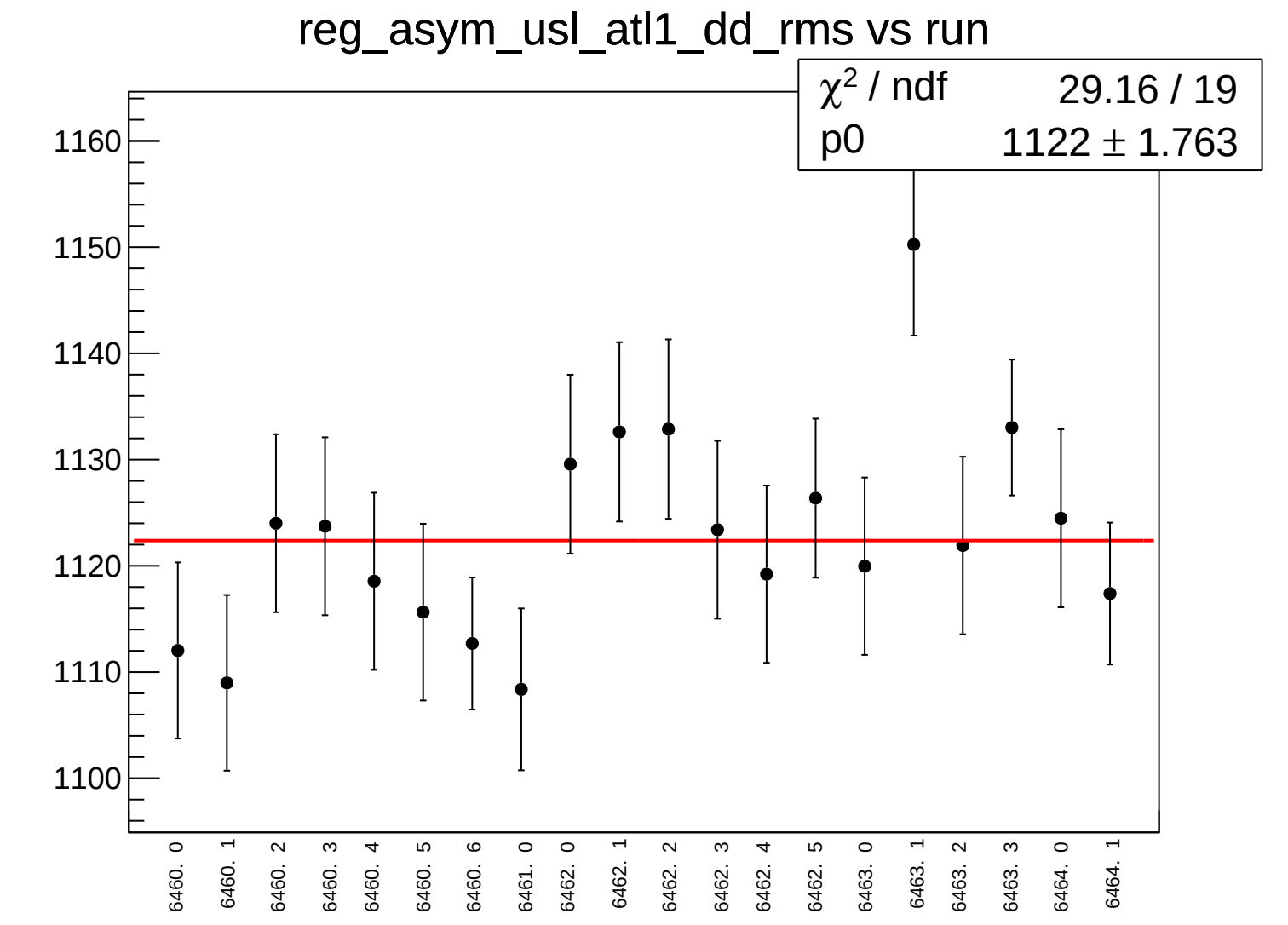

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.08e+04 / 19
p0 143.7 ± 0.2317
220
200
180
160
140
120
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

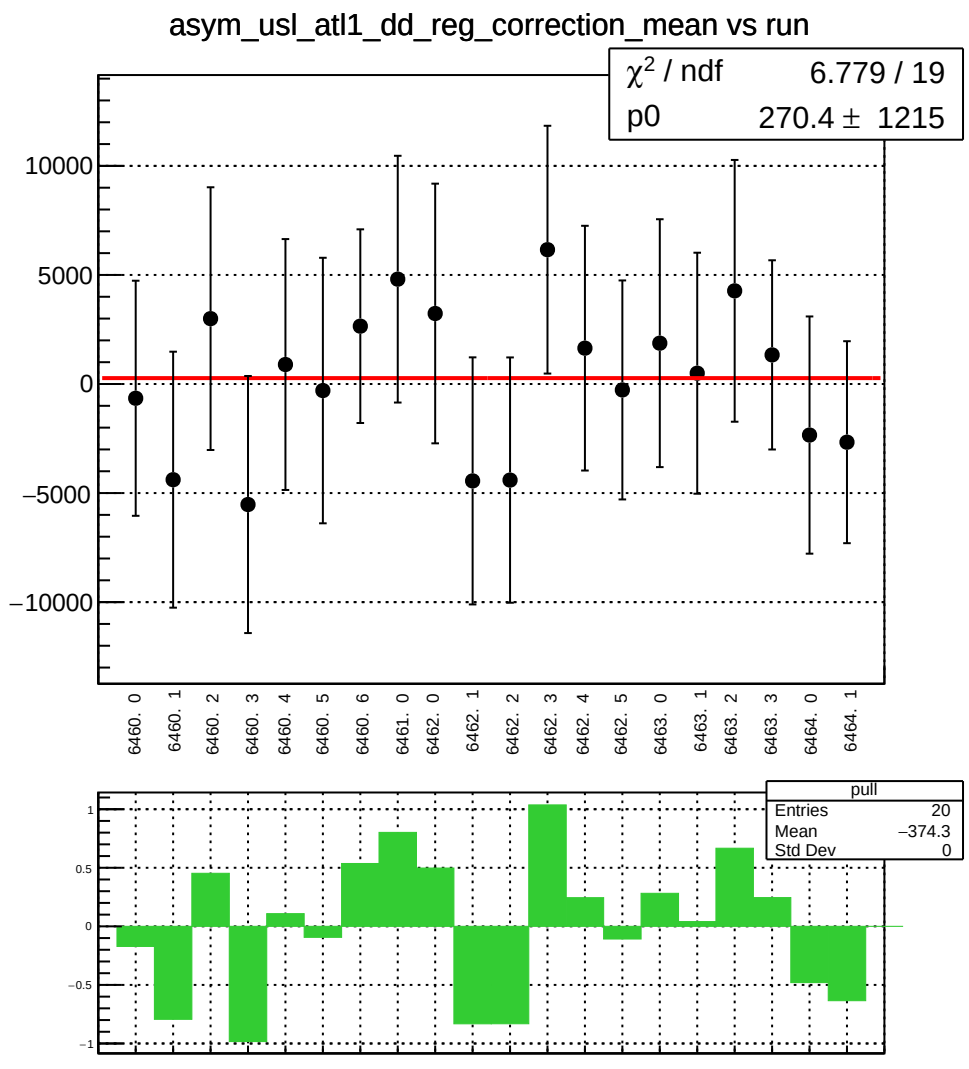

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.88 / 19
p0 3.152e−14 ± 5.837e−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −100.2
Std Dev 0
pull1D
Entries 20
Mean −0.01159
Std Dev 1.046

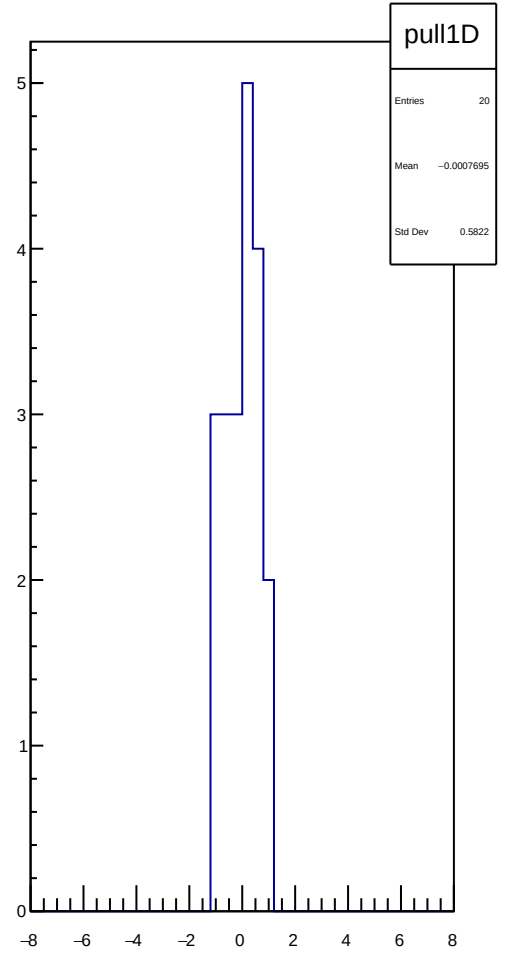

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.045e+05 / 19
p0 2.264e−11 ± 4.128e−14
90
80
70
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

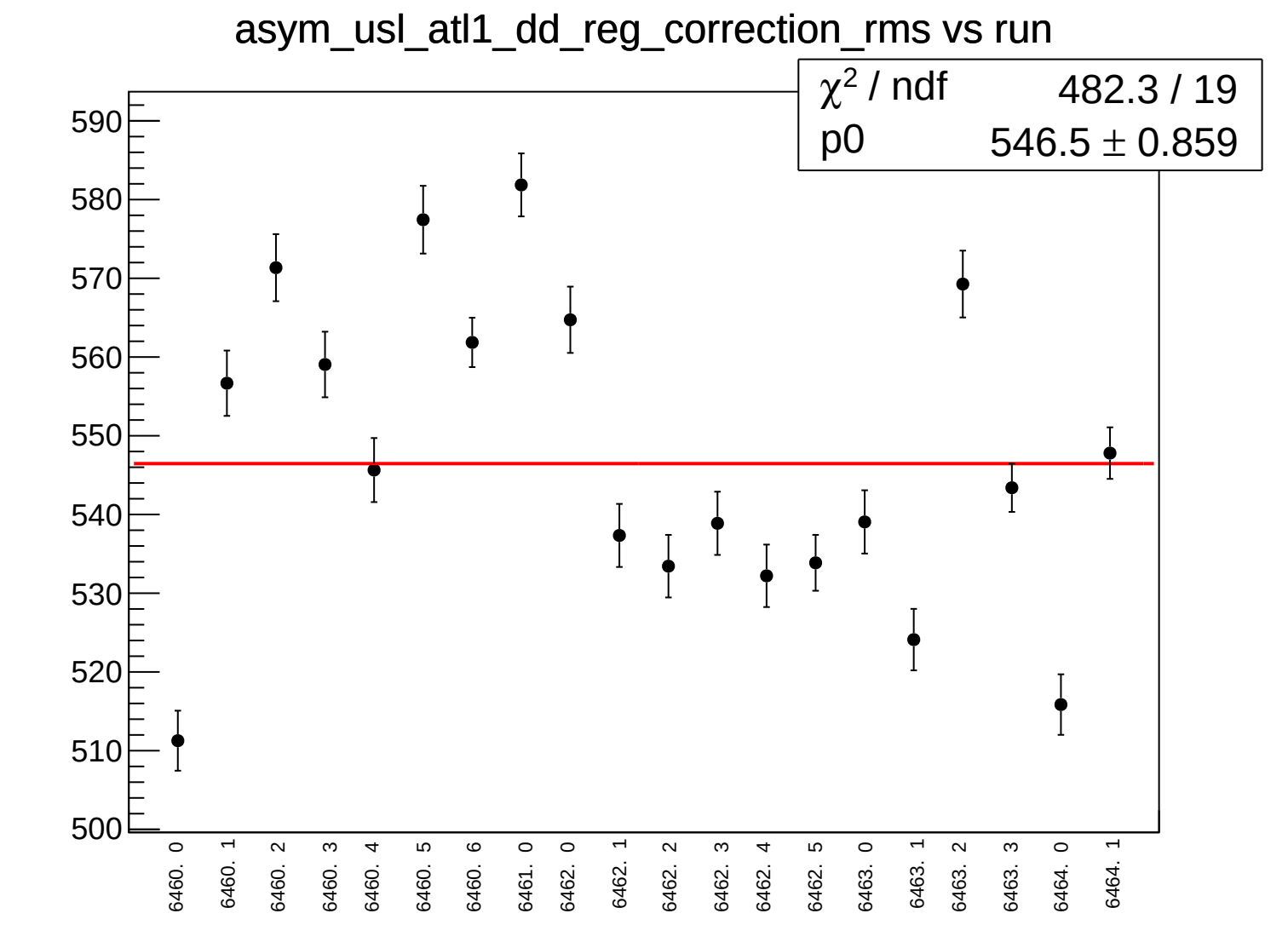

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 24.36 / 19
p0 3126 ± 2494
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.595
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

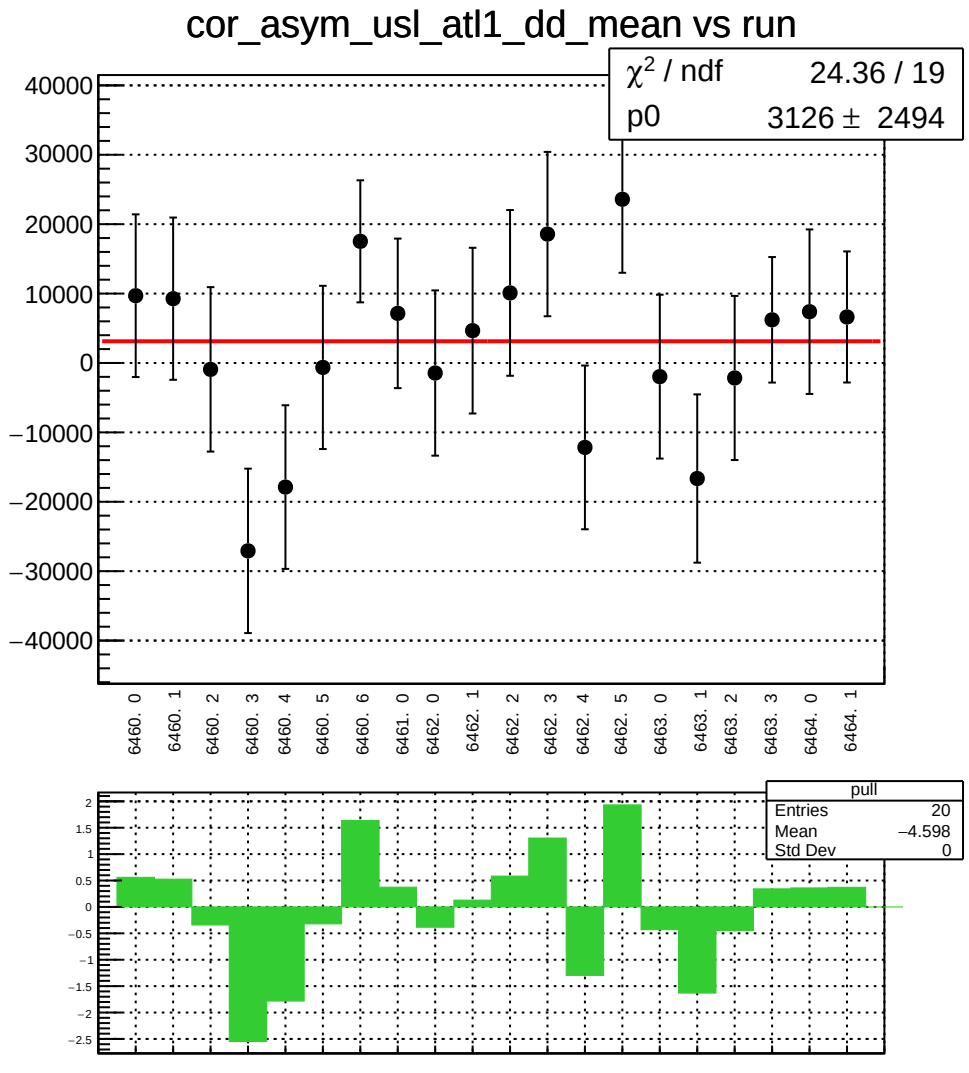

pull1D
Entries 20
Mean −0.05321
Std Dev 1.102
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

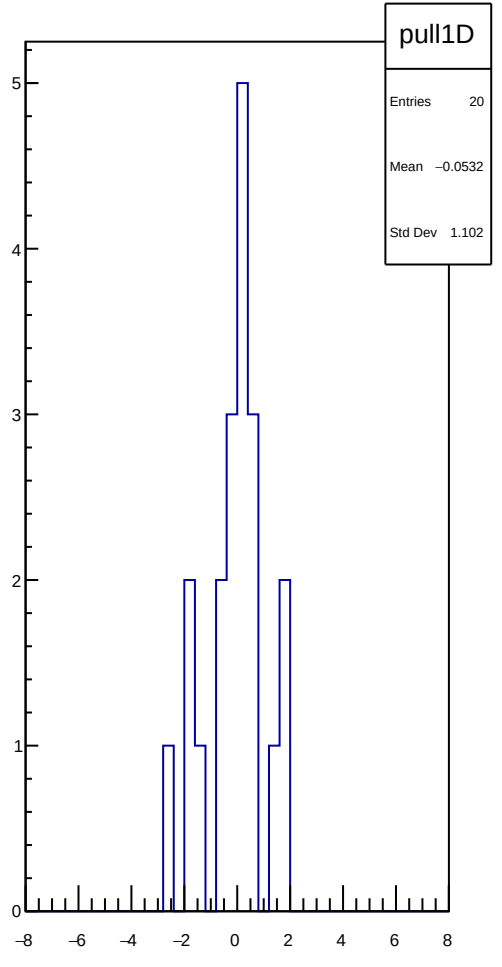

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 29.16 / 19
p0 1122 ± 1.763
1160
1150
1140
1130
1120
1110
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

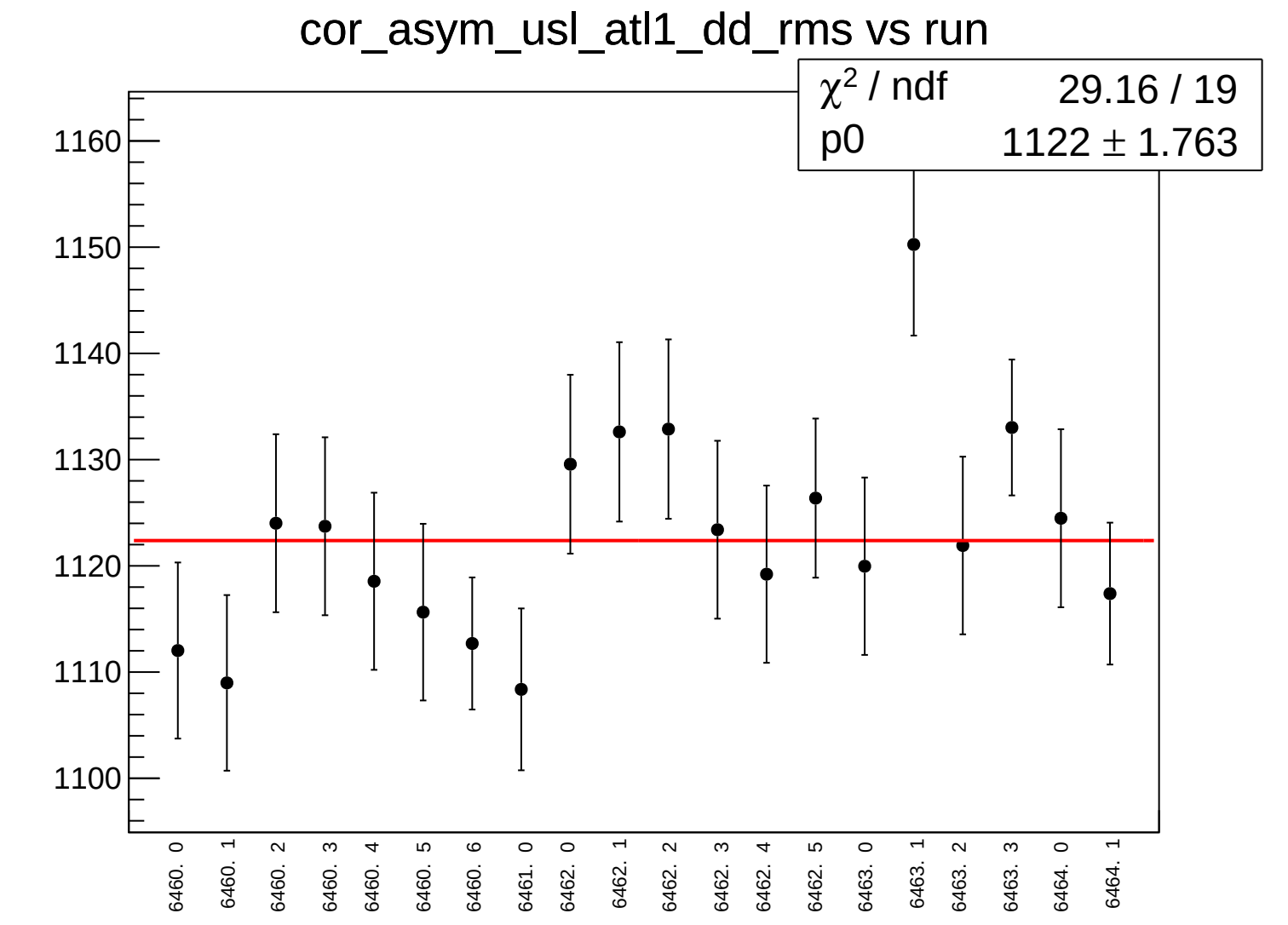

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 6.779 / 19
p0 270.4 ± 1215
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −374.3
Std Dev 0
1
0.5
0
−0.5
−1

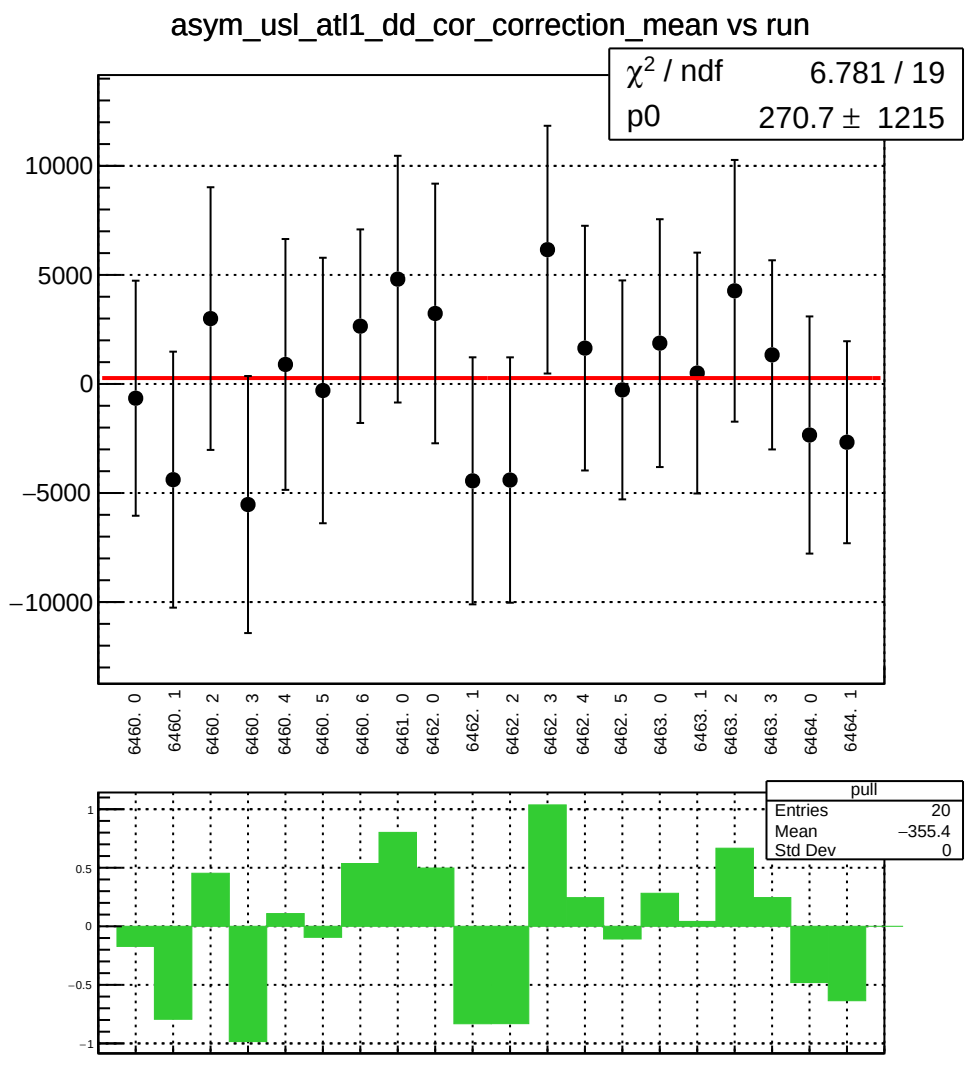

pull1D
Entries 20
Mean −0.0007695
Std Dev 0.5822
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

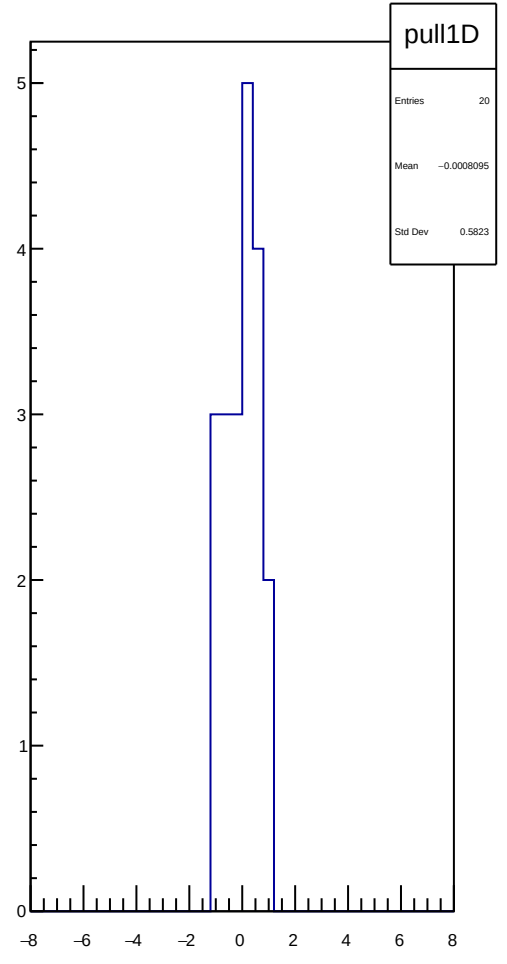

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 482.3 / 19
p0 546.5 ± 0.859
590
580
570
560
550
540
530
520
510
500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

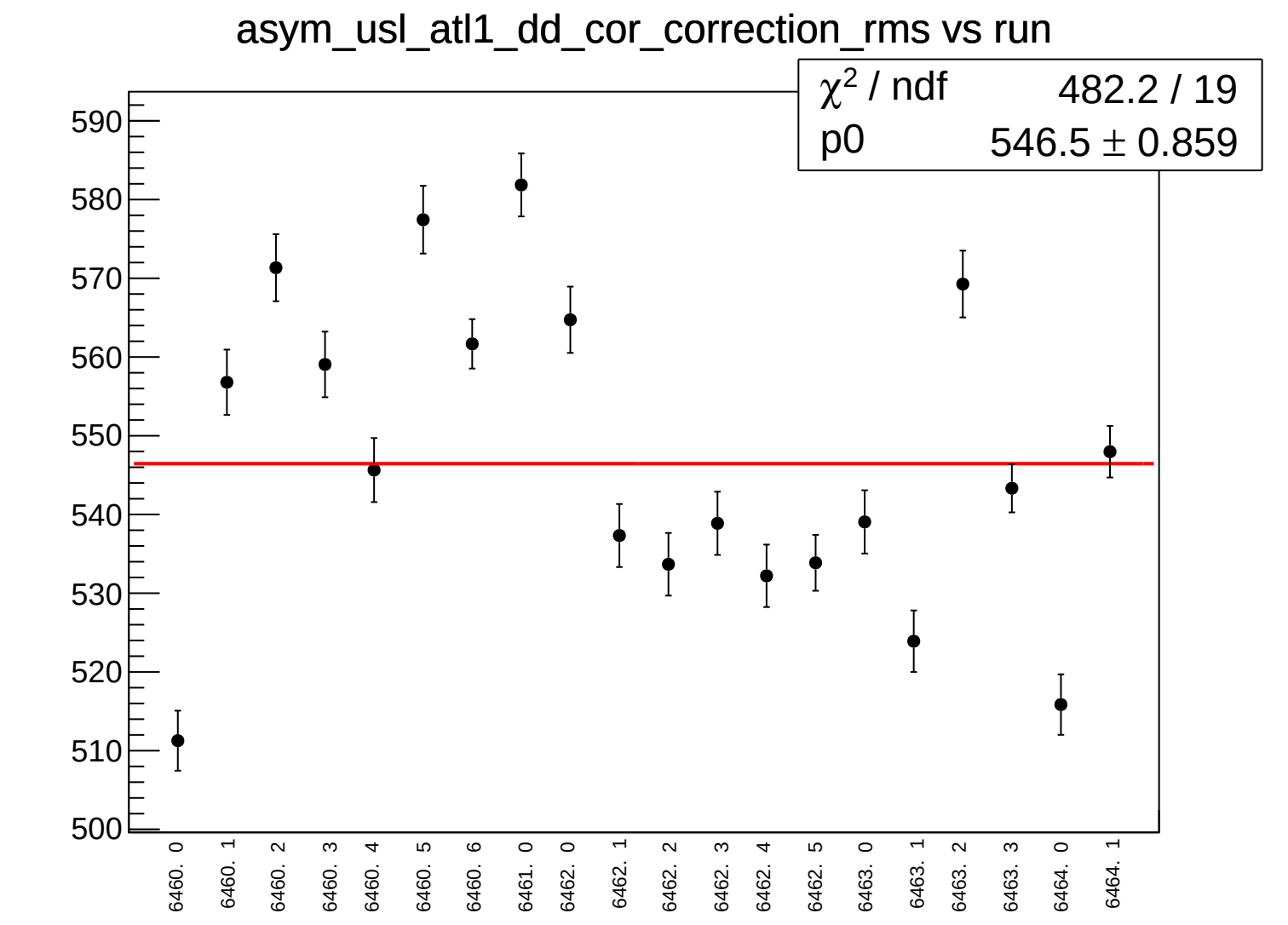

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 24.36 / 19
p0 3126 ± 2494
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.598
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

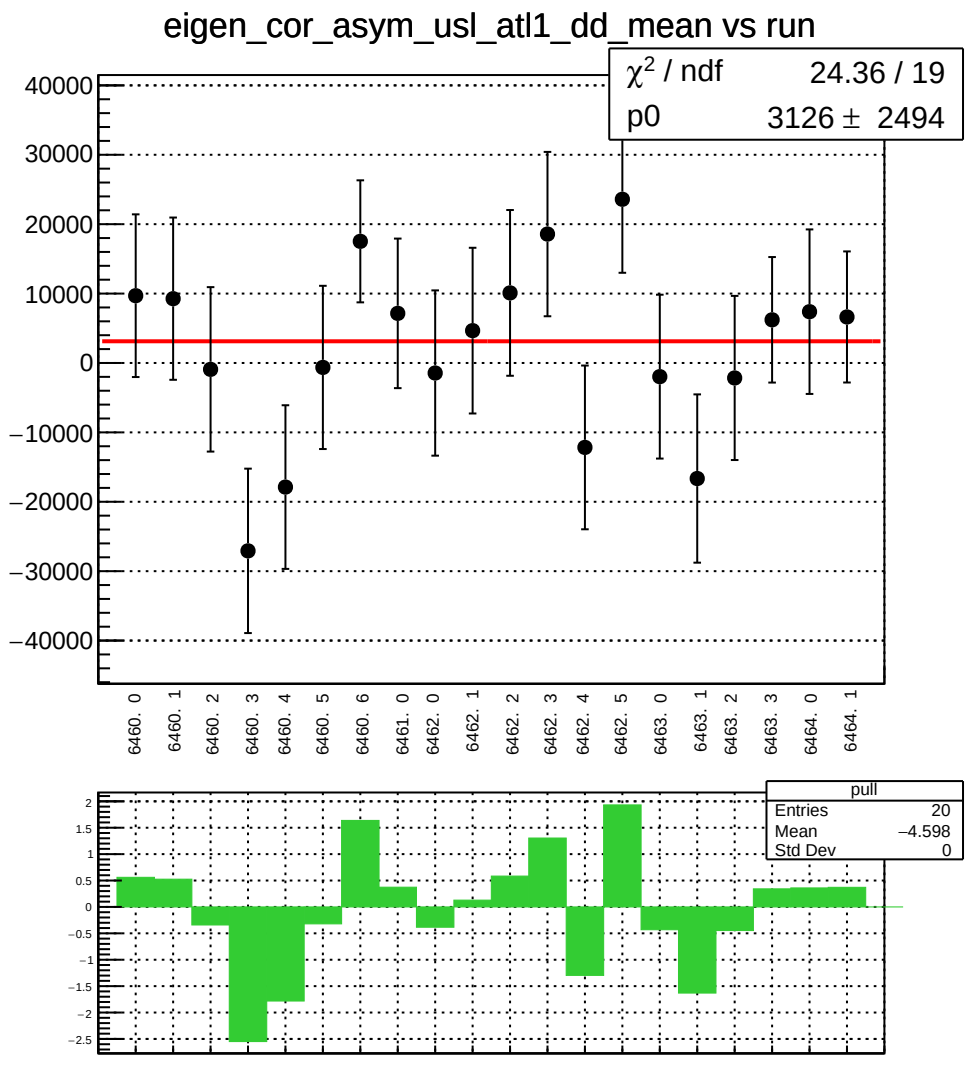

pull1D
Entries 20
Mean −0.0532
Std Dev 1.102
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

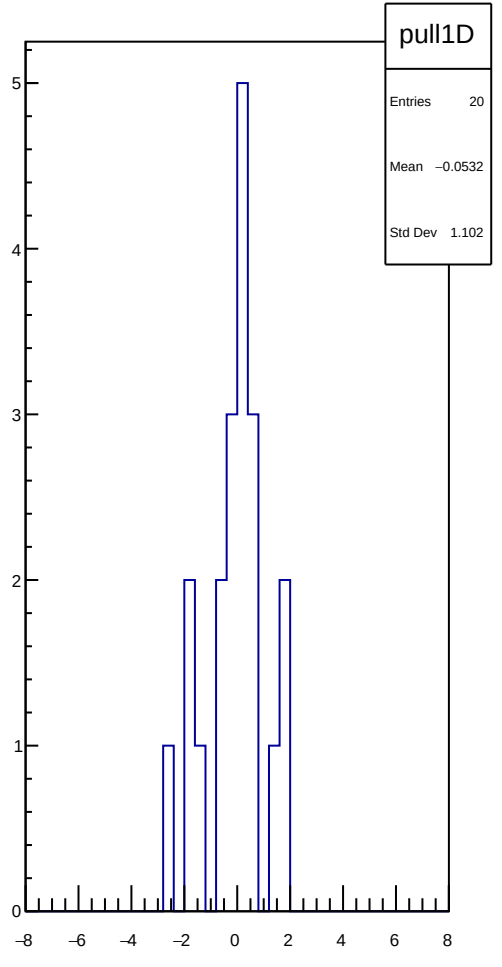

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 29.16 / 19
p0 1122 ± 1.763
1160
1150
1140
1130
1120
1110
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

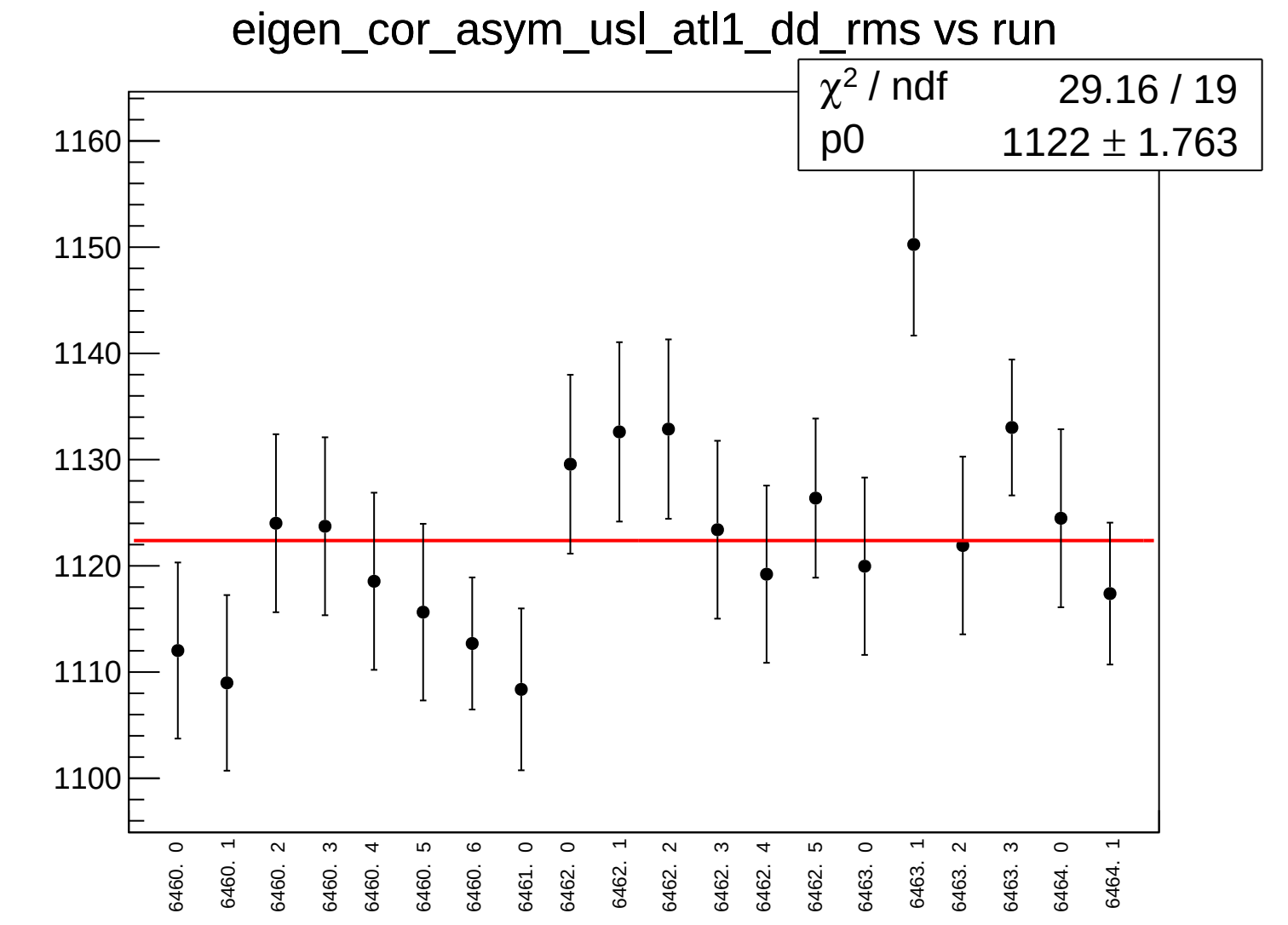

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 6.781 / 19
p0 270.7 ± 1215
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −355.4
Std Dev 0
1
0.5
0
−0.5
−1

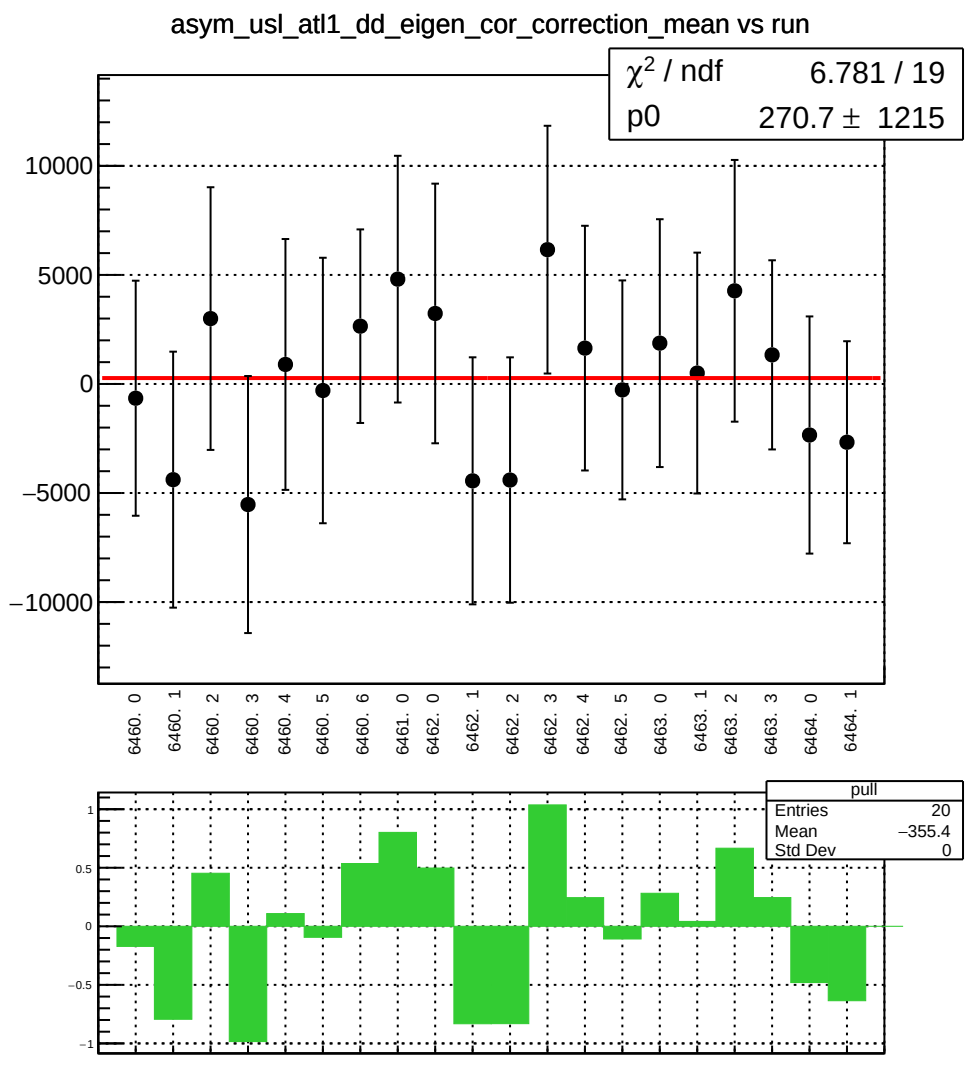

pull1D
Entries 20
Mean −0.0008095
Std Dev 0.5823
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

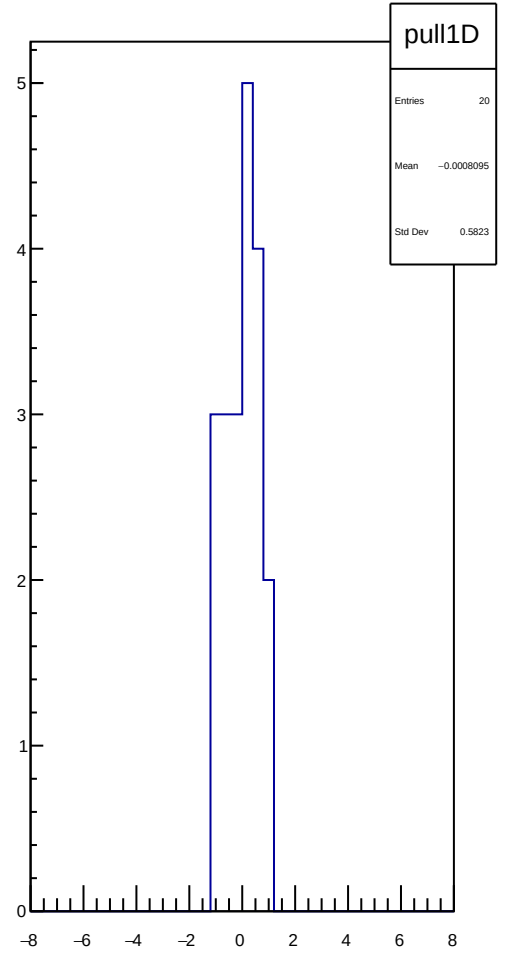

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 482.2 / 19
p0 546.5 ± 0.859
590
580
570
560
550
540
530
520
510
500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

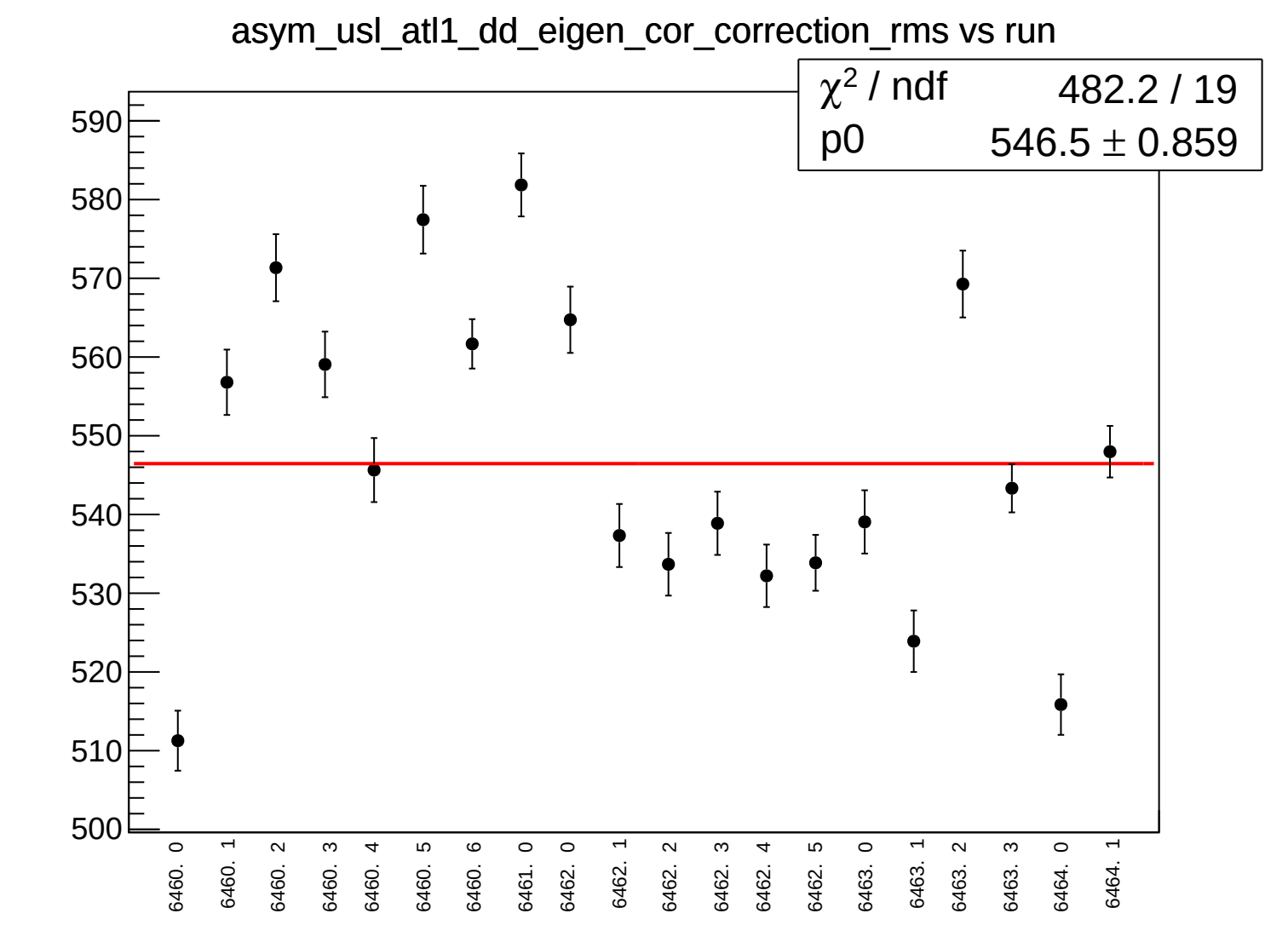

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 24.36 / 19
p0 3126 ± 2494
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.598
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

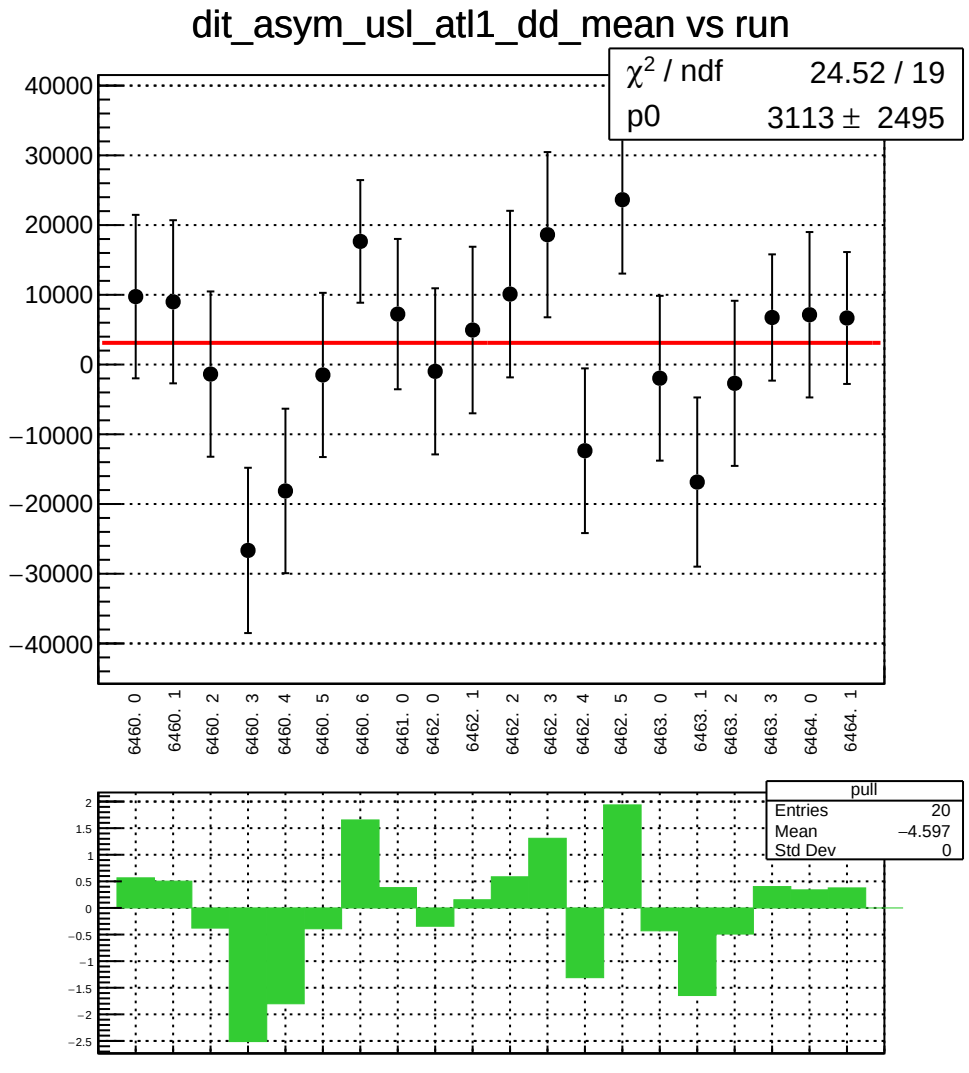

pull1D
Entries 20
Mean −0.0532
Std Dev 1.102
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

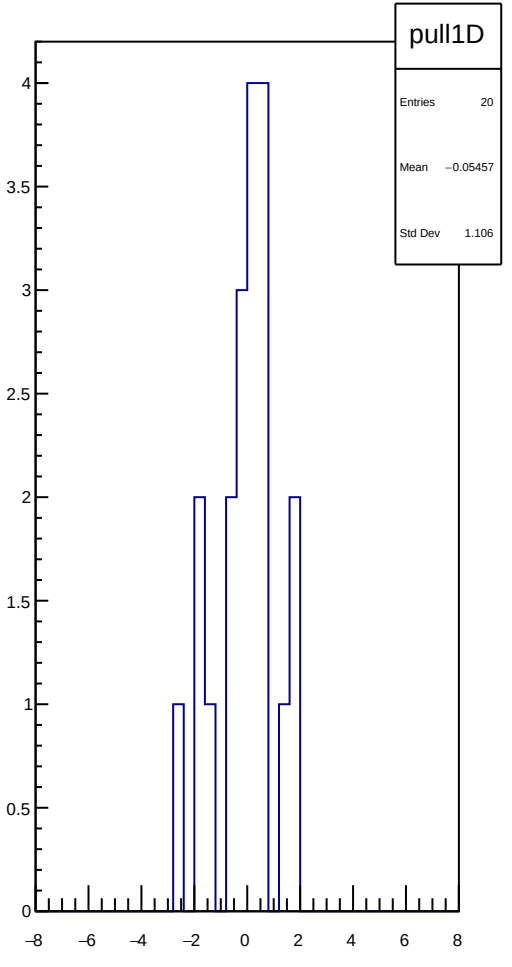

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 29.16 / 19
p0 1122 ± 1.763
1160
1150
1140
1130
1120
1110
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

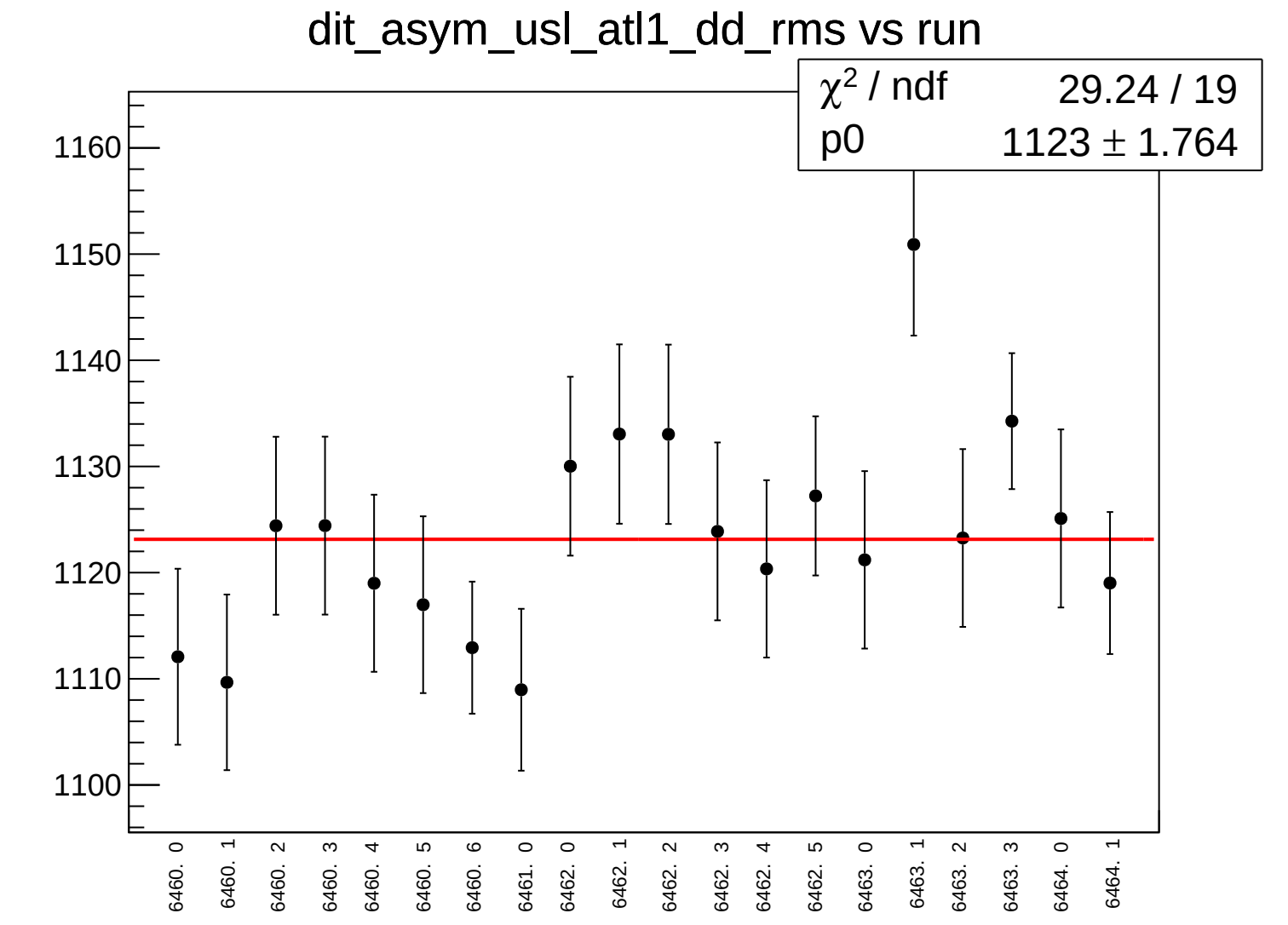

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 6.781 / 19
p0 270.7 ± 1215
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −355.4
Std Dev 0
1
0.5
0
−0.5
−1

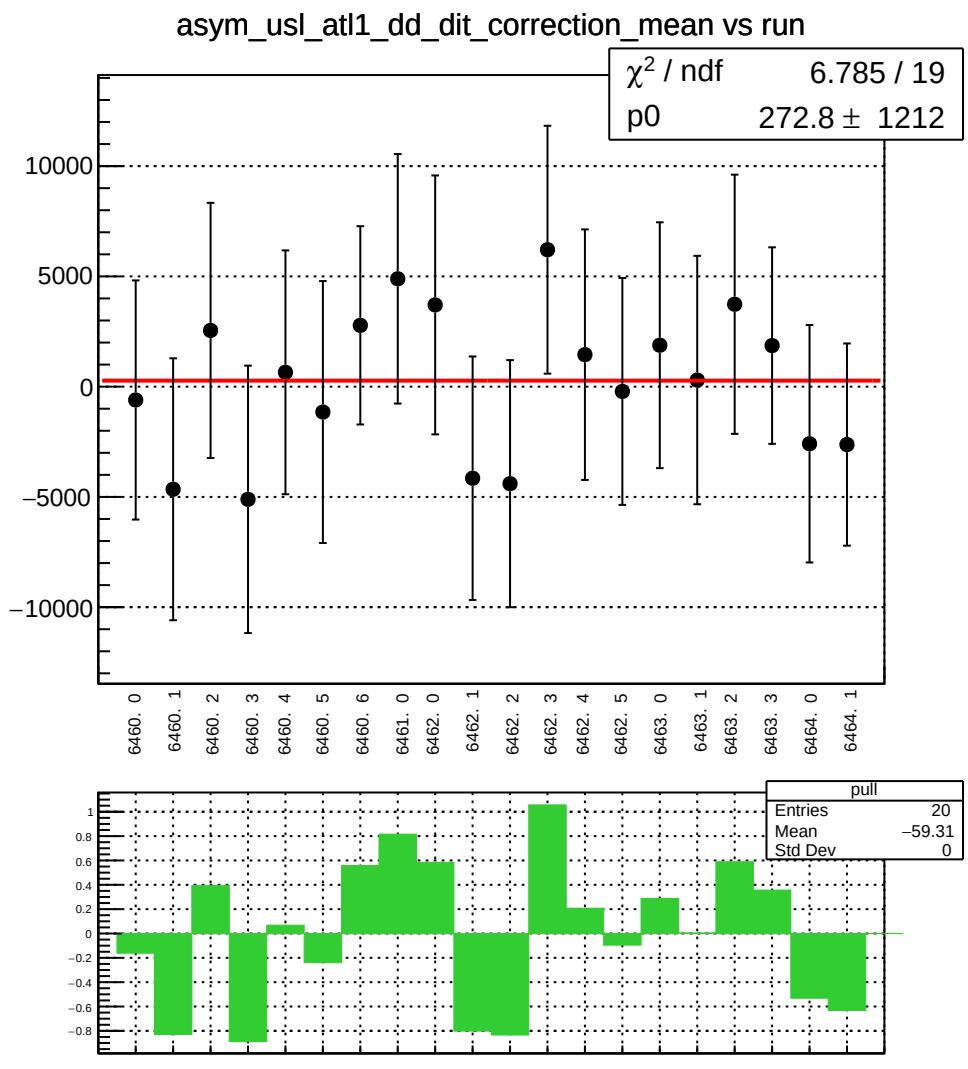

pull1D
Entries 20
Mean −0.0008095
Std Dev 0.5823
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

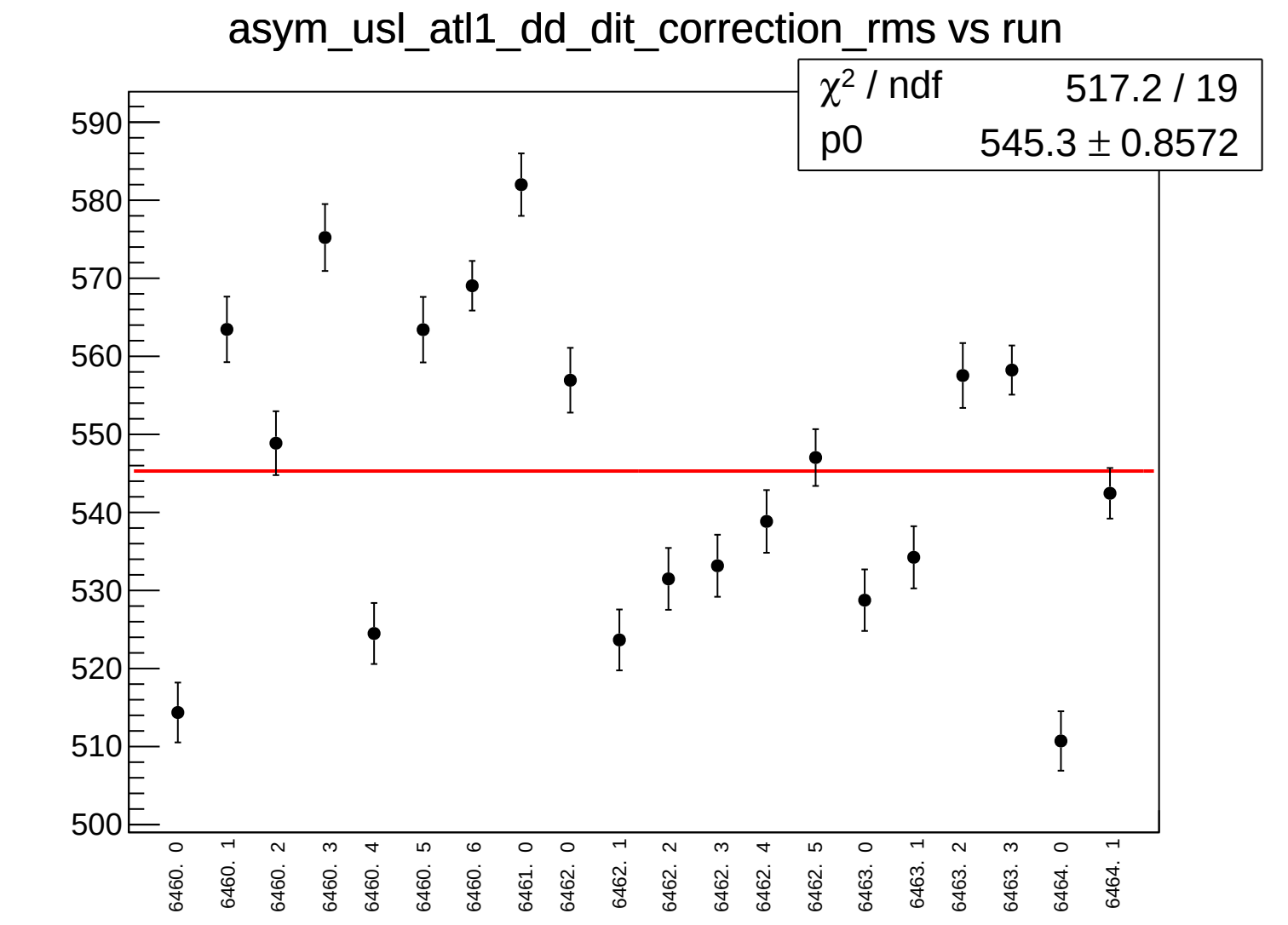

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 482.2 / 19
p0 546.5 ± 0.859
590
580
570
560
550
540
530
520
510
500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

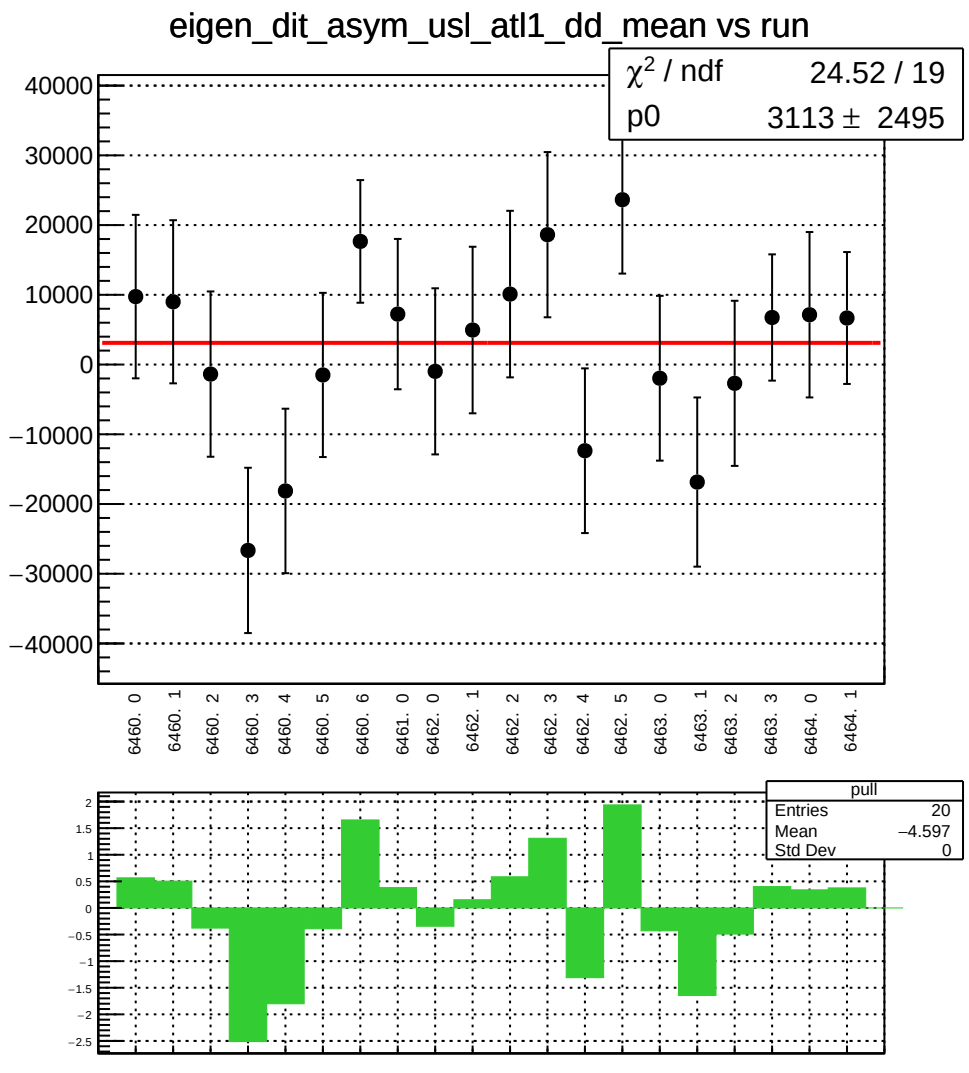

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 24.52 / 19
p0 3113 ± 2495
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.597
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

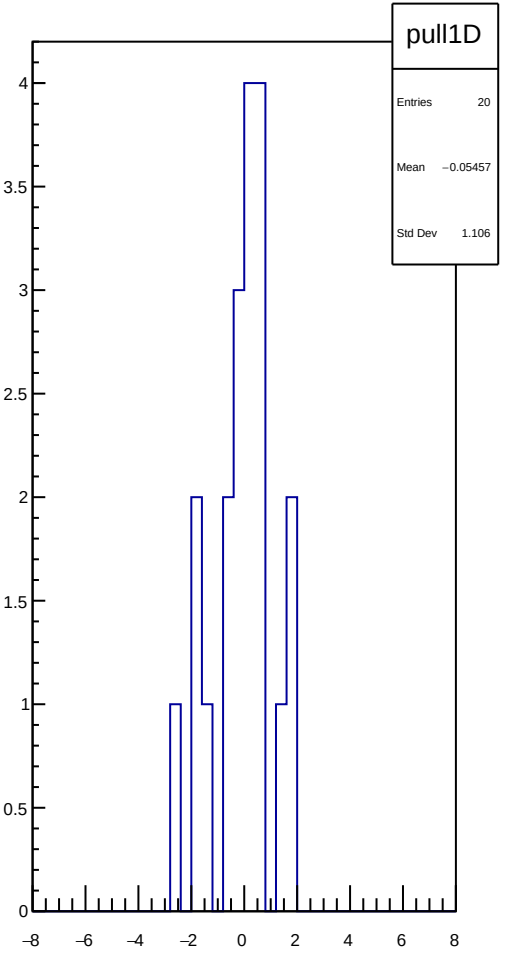

pull1D
Entries 20
Mean −0.05457
Std Dev 1.106
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

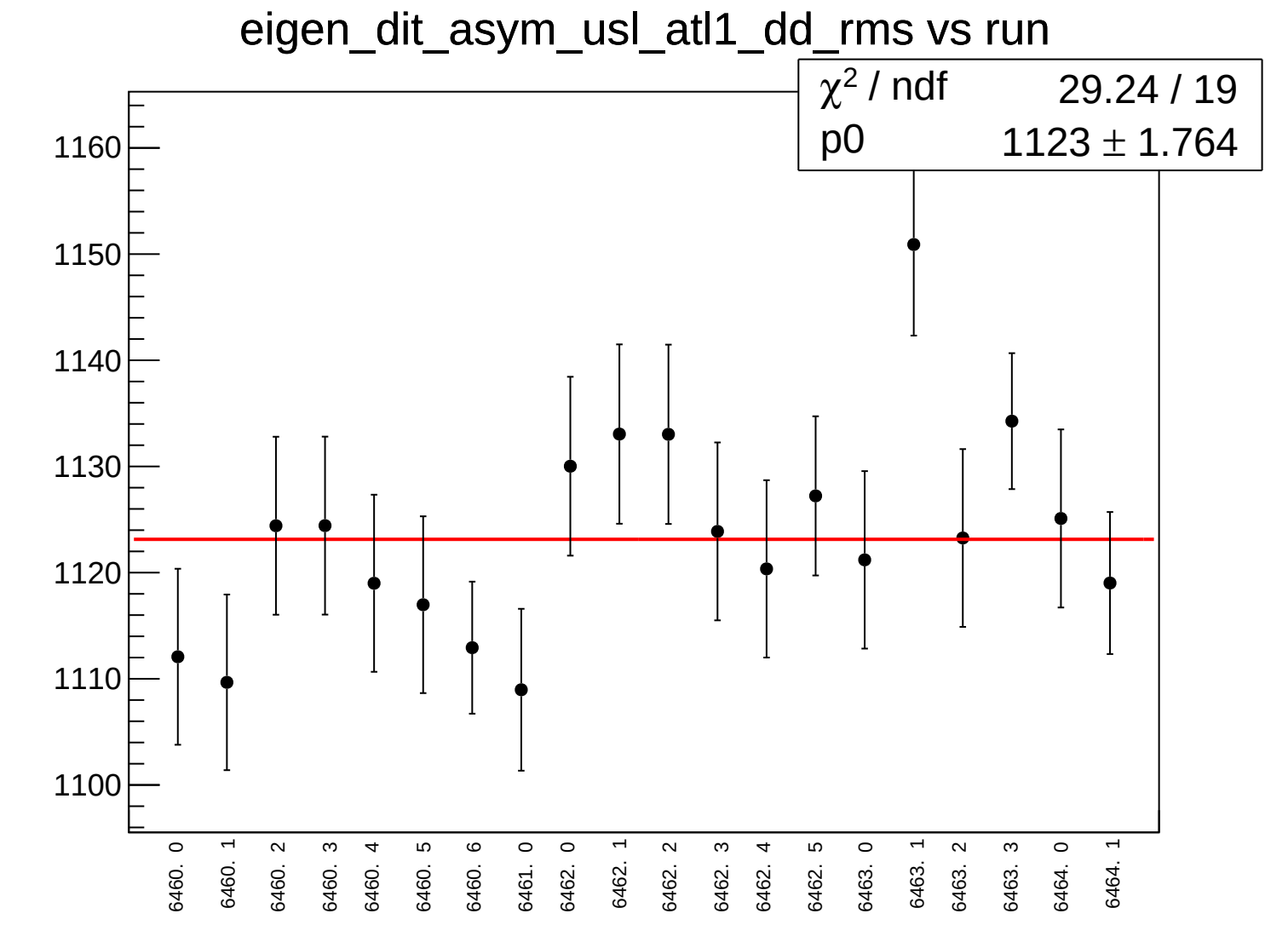

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 29.24 / 19
p0 1123 ± 1.764
1160
1150
1140
1130
1120
1110
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

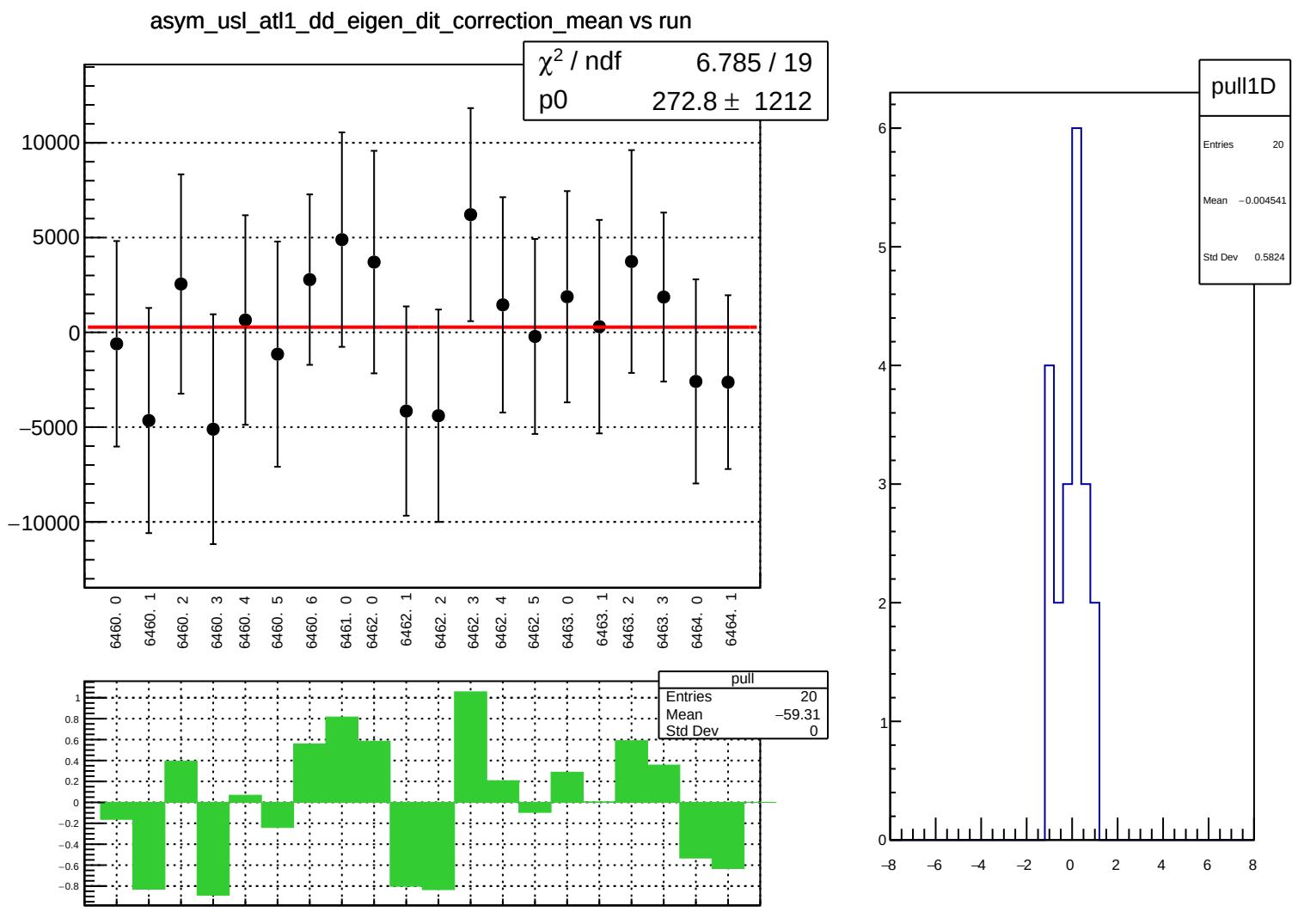

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 6.785 / 19
p0 272.8 ± 1212
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −59.31
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.004541
Std Dev 0.5824
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

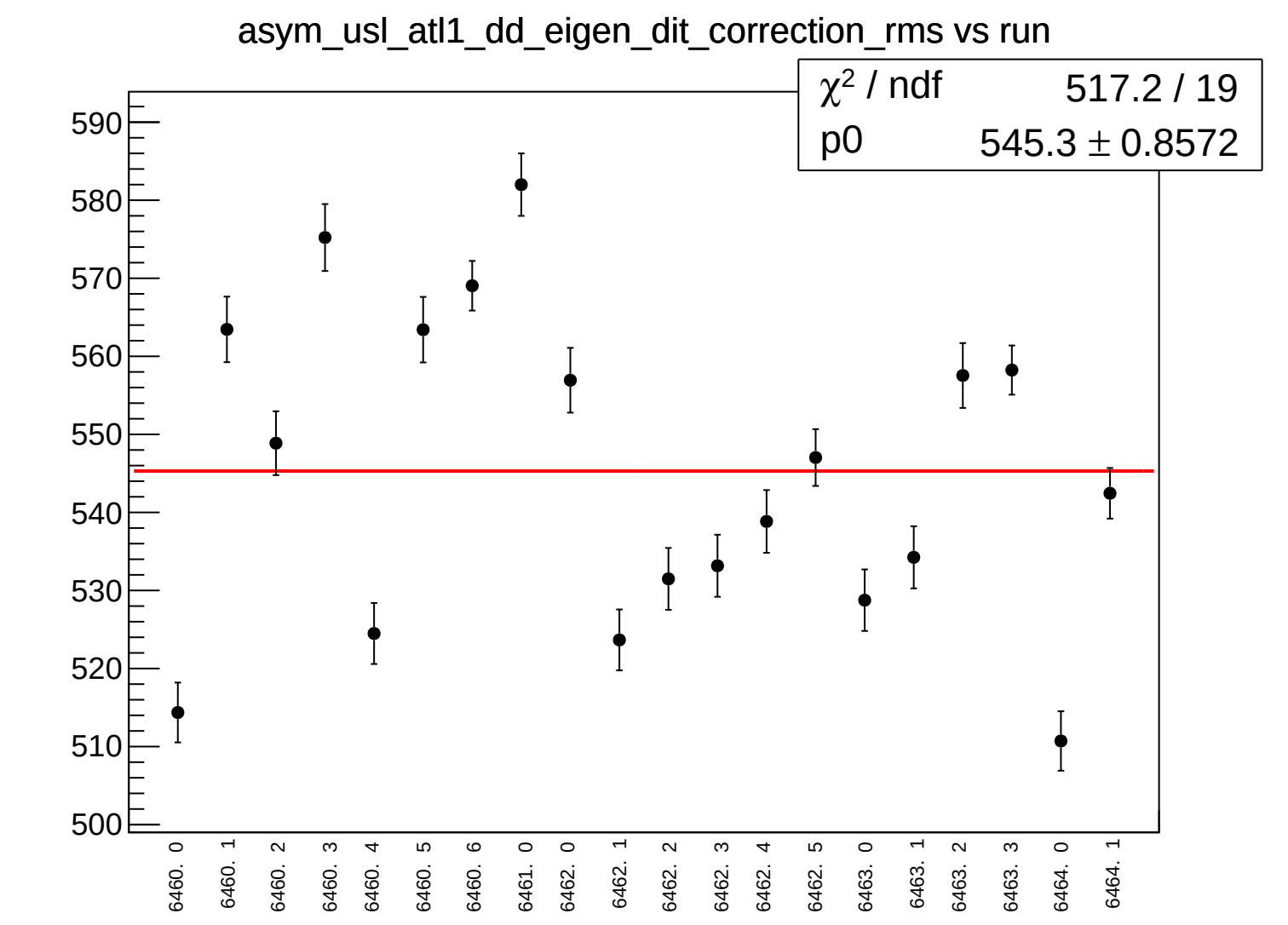

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 517.2 / 19
p0 545.3 ± 0.8572
590
580
570
560
550
540
530
520
510
500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

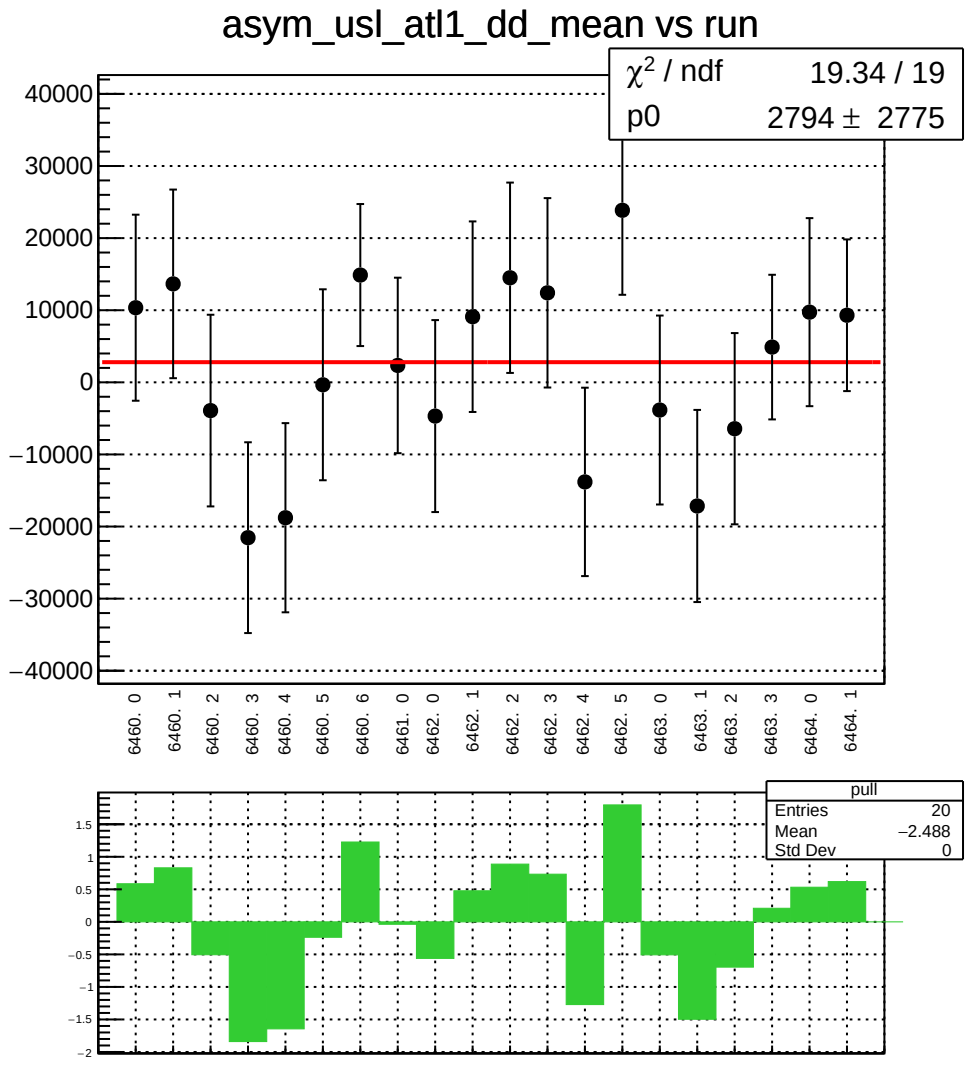

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 24.52 / 19
p0 3113 ± 2495
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.597
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

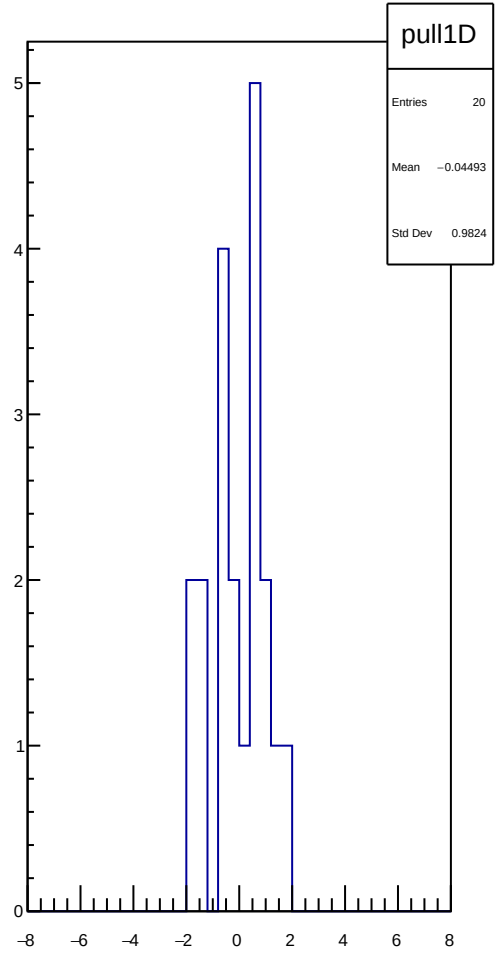

pull1D
Entries 20
Mean −0.05457
Std Dev 1.106
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

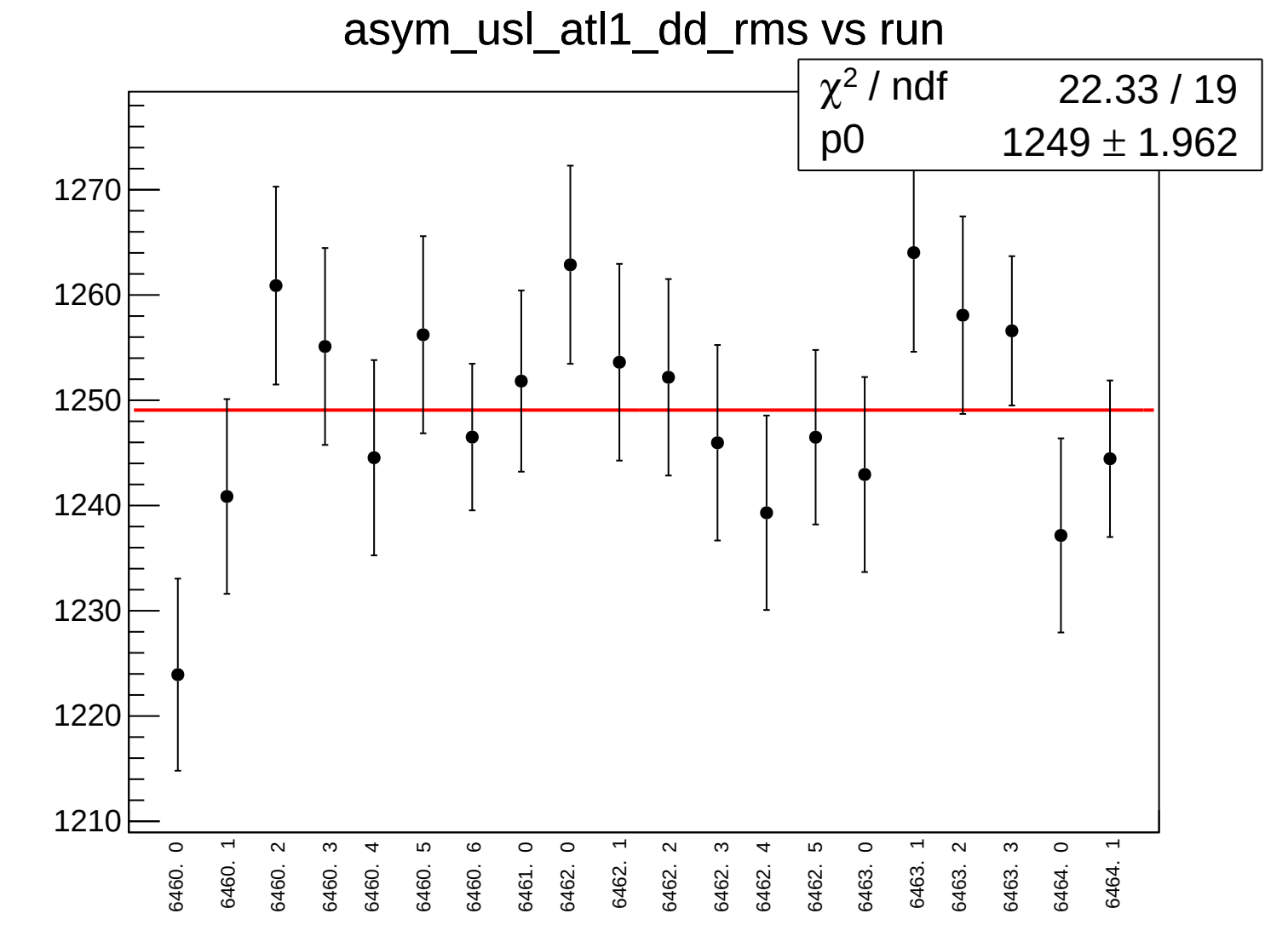

eigen_dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 29.24 / 19
p0 1123 ± 1.764
1160
1150
1140
1130
1120
1110
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

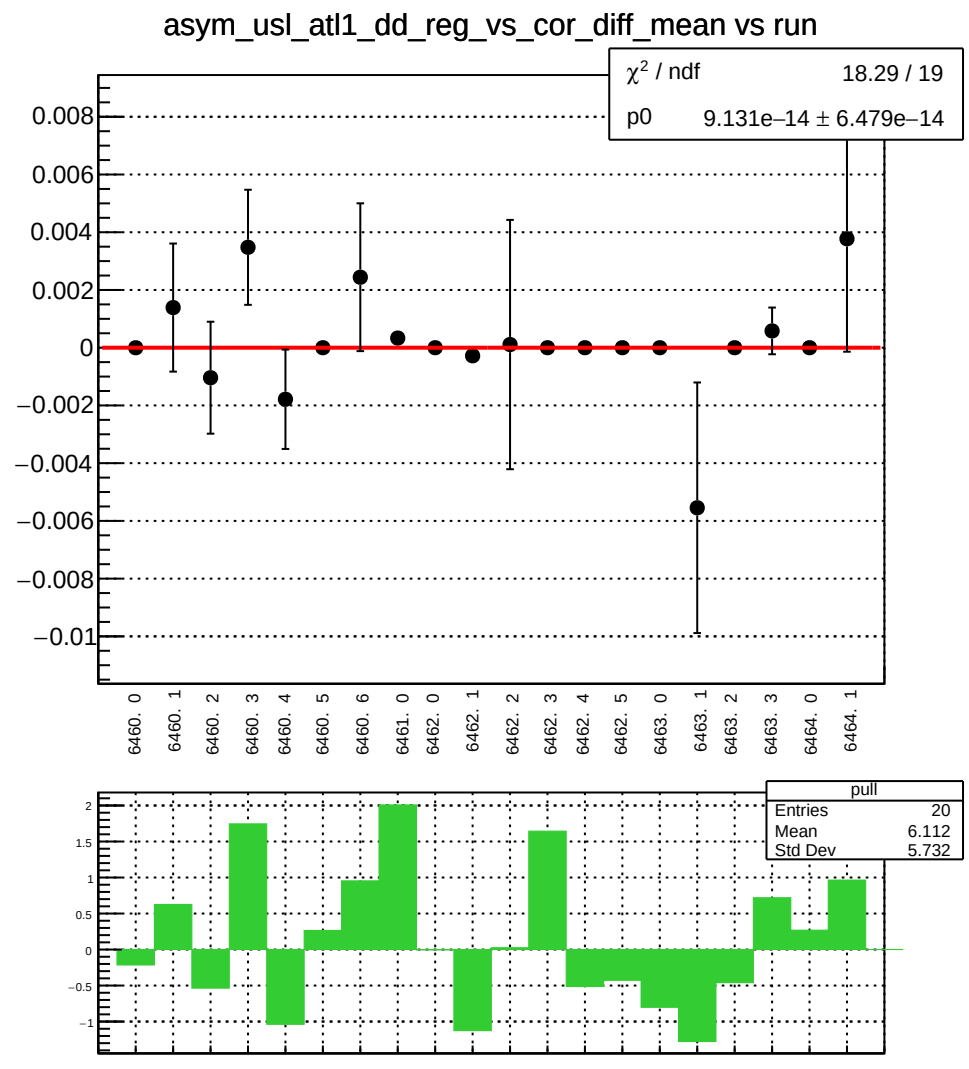

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 6.785 / 19
p0 272.8 ± 1212
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −59.31
Std Dev 0
pull1D
Entries 20
Mean −0.004541
Std Dev 0.5824

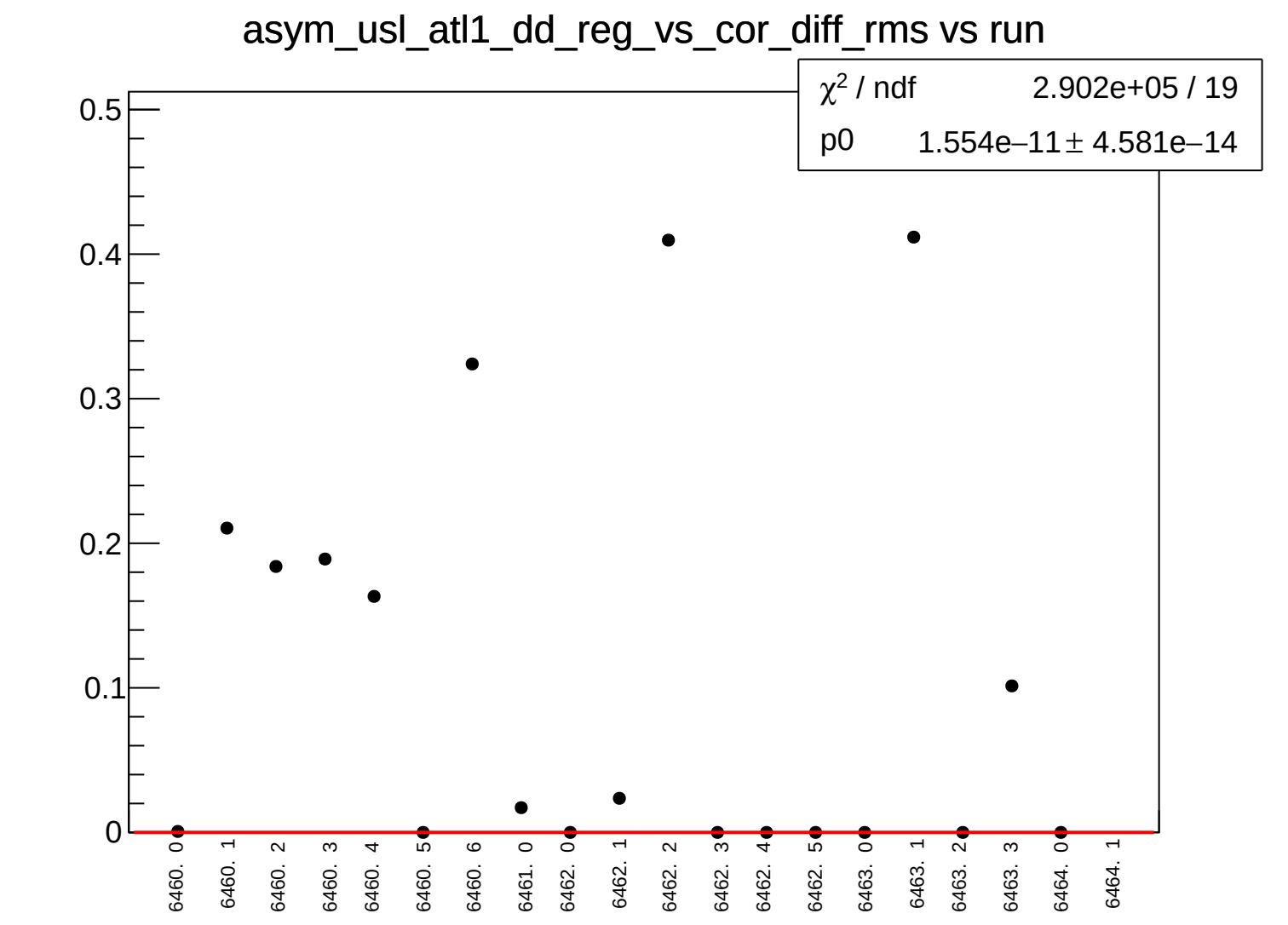

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 517.2 / 19
p0 545.3 ± 0.8572
590
580
570
560
550
540
530
520
510
500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

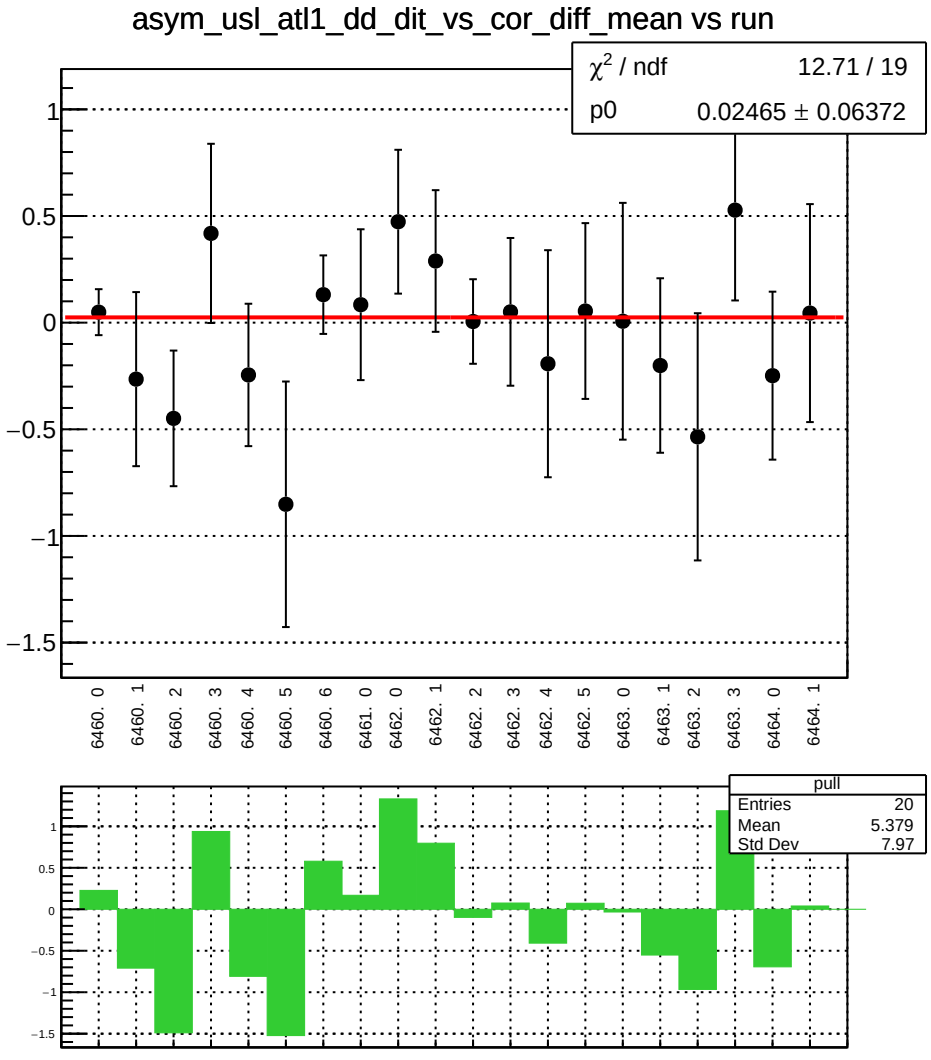

asym_usl_atl1_dd_mean vs run
χ² / ndf 19.34 / 19
p0 2794 ± 2775
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.488
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

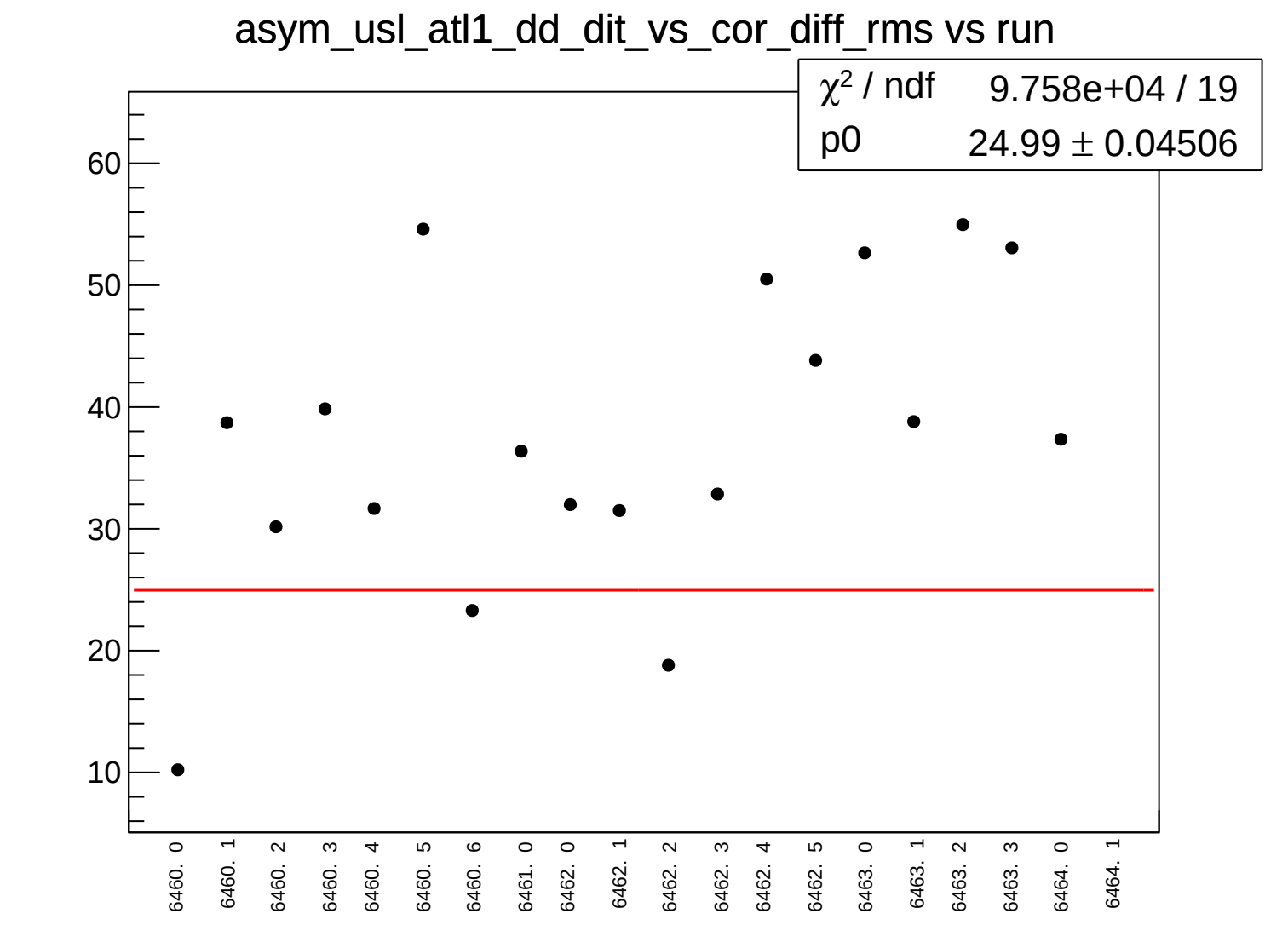

pull1D
Entries 20
Mean −0.04493
Std Dev 0.9824
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

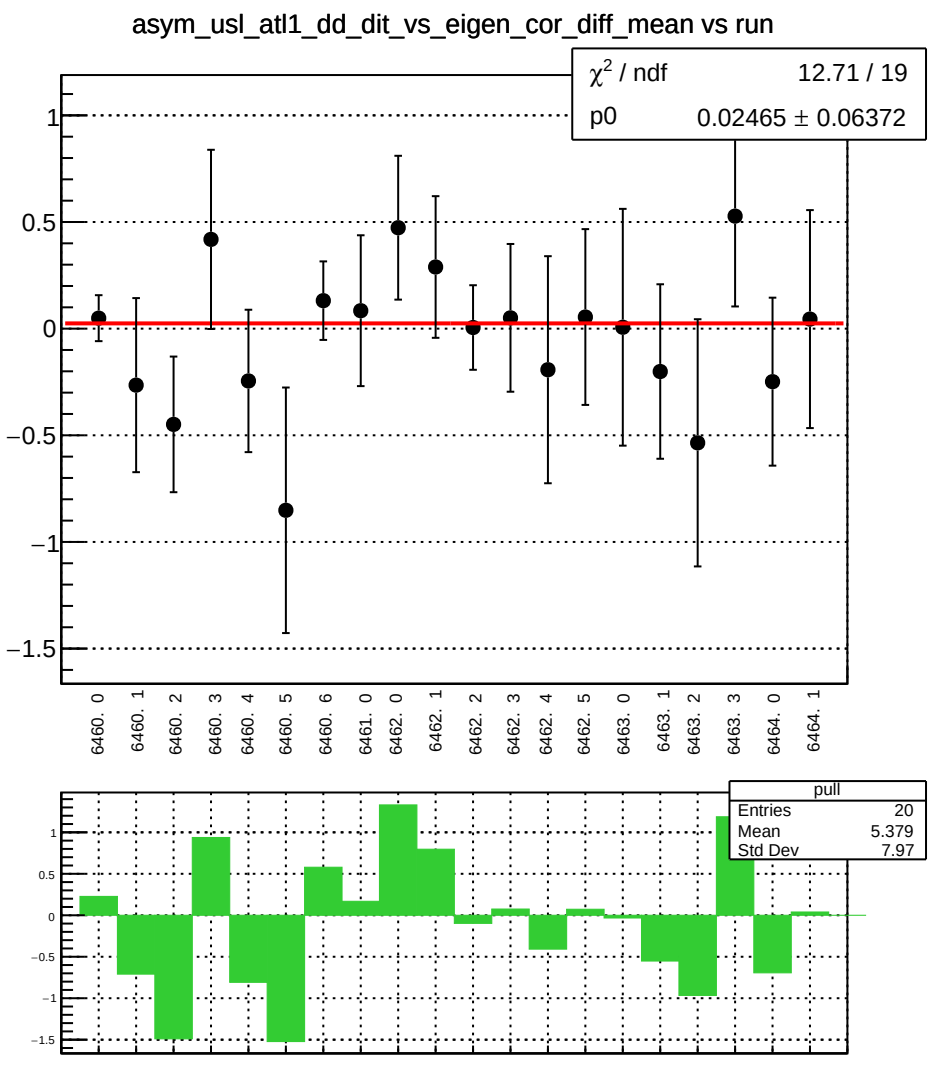

asym_usl_atl1_dd_rms vs run
χ² / ndf 22.33 / 19
p0 1249 ± 1.962
1270
1260
1250
1240
1230
1220
1210
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

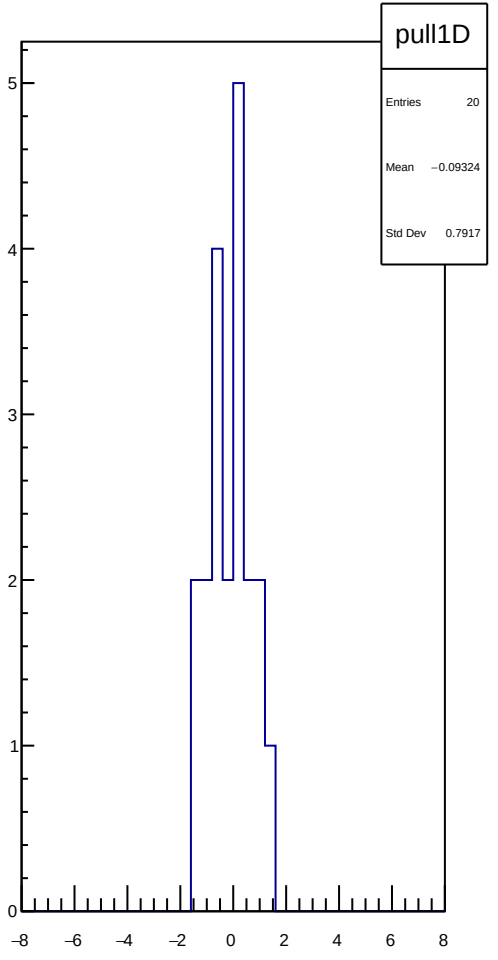

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 18.29 / 19
p0 9.131e−14 ± 6.479e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.112
Std Dev 5.732
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.141
Std Dev 0.9457
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

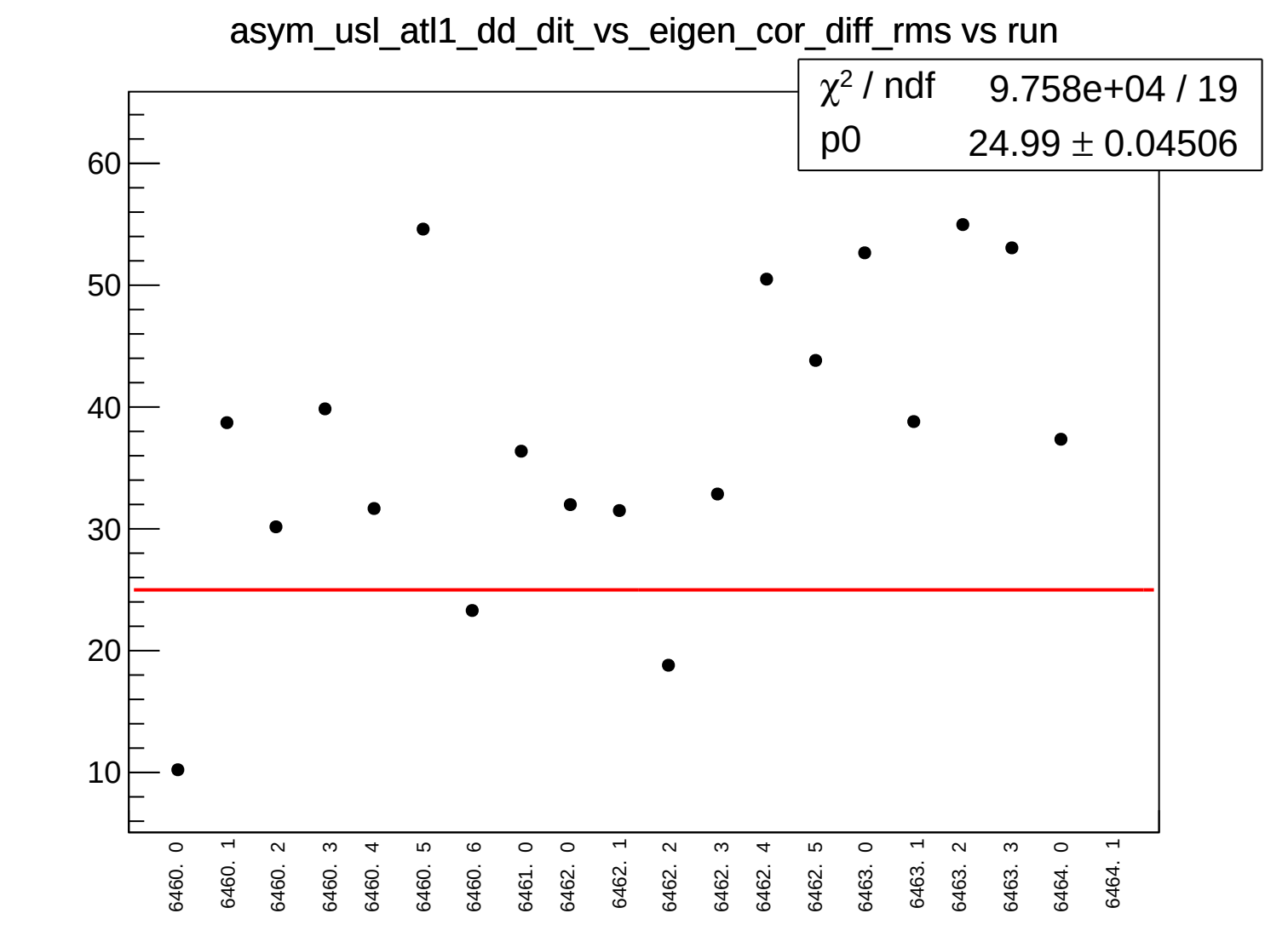

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.902e+05 / 19
p0 1.554e−11 ± 4.581e−14
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

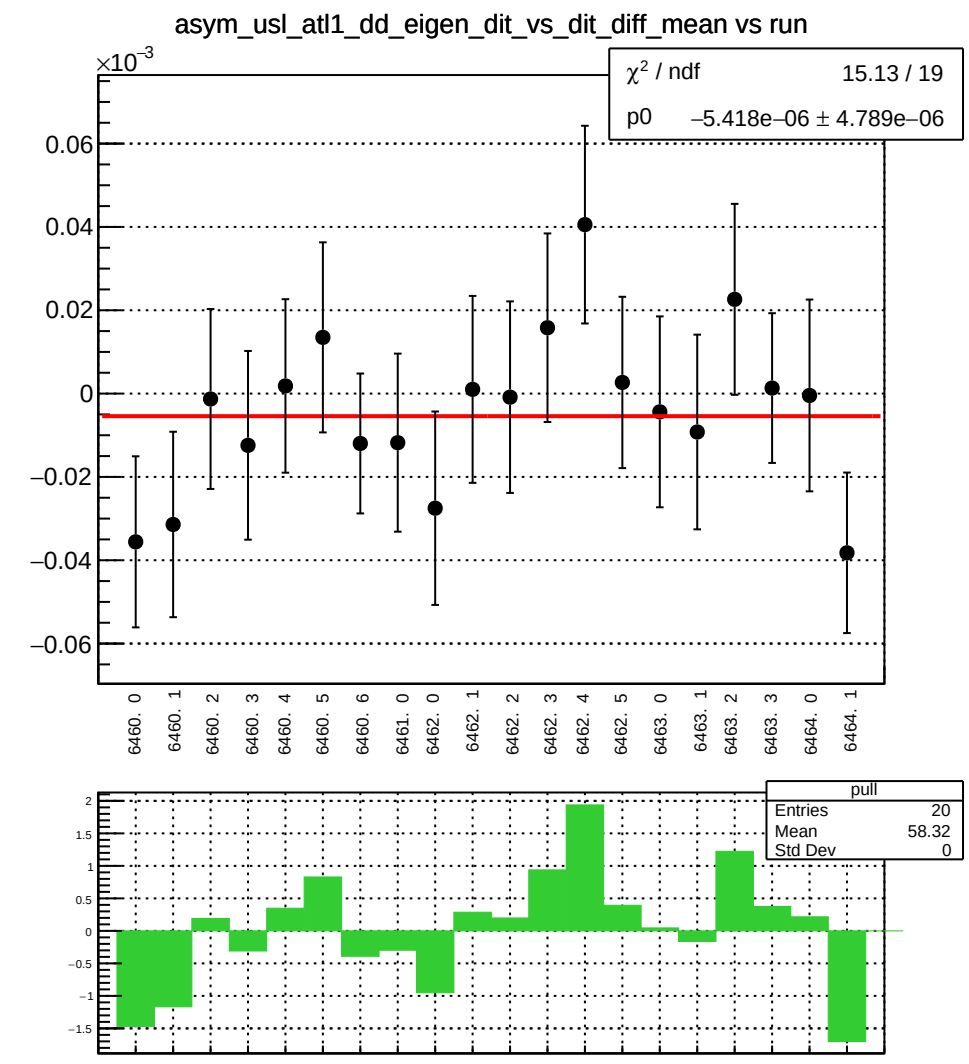

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 12.71 / 19
p0 0.02465 ± 0.06372
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.379
Std Dev 7.97
pull1D
Entries 20
Mean −0.09324
Std Dev 0.7917
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

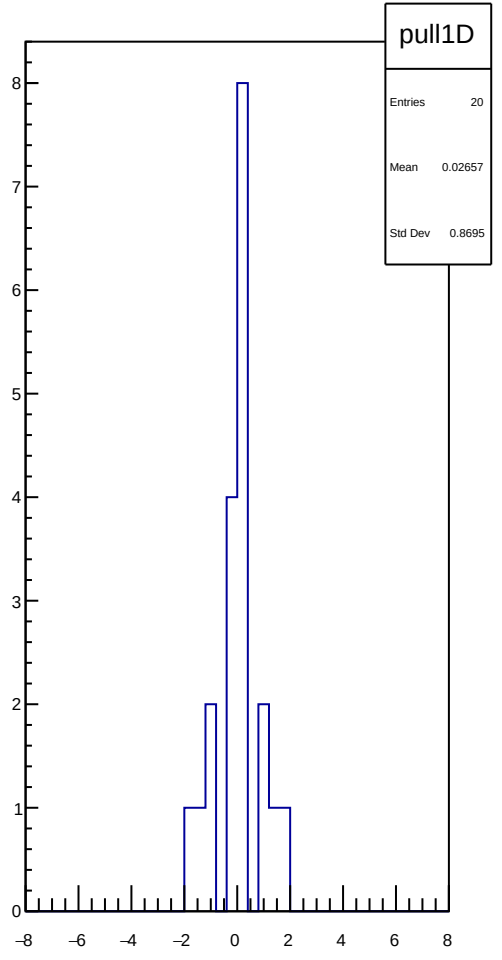

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.758e+04 / 19
p0 24.99 ± 0.04506
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

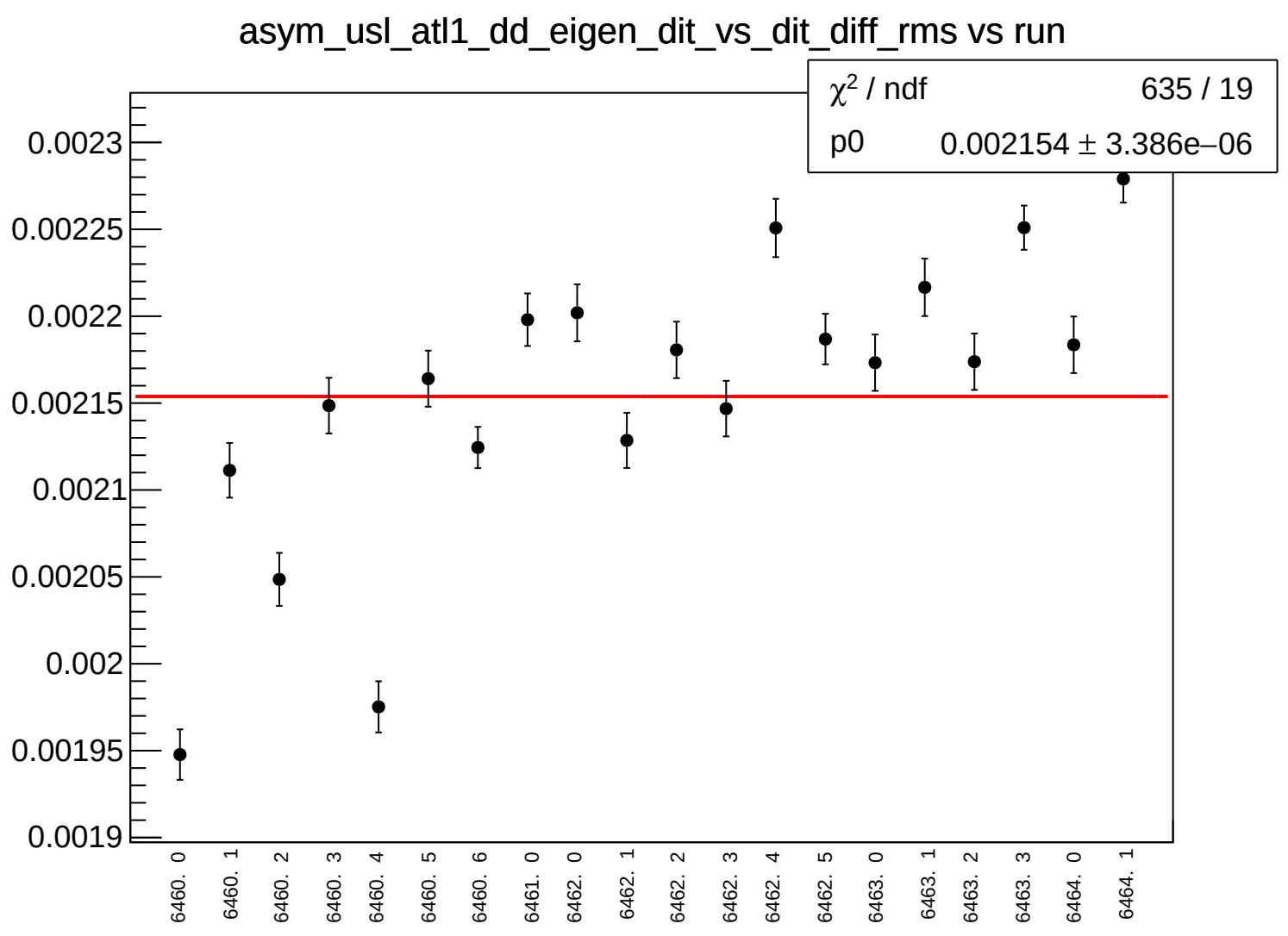

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.71 / 19
p0 0.02465 ± 0.06372
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.379
Std Dev 7.97
1
0.5
0
−0.5
−1
−1.5

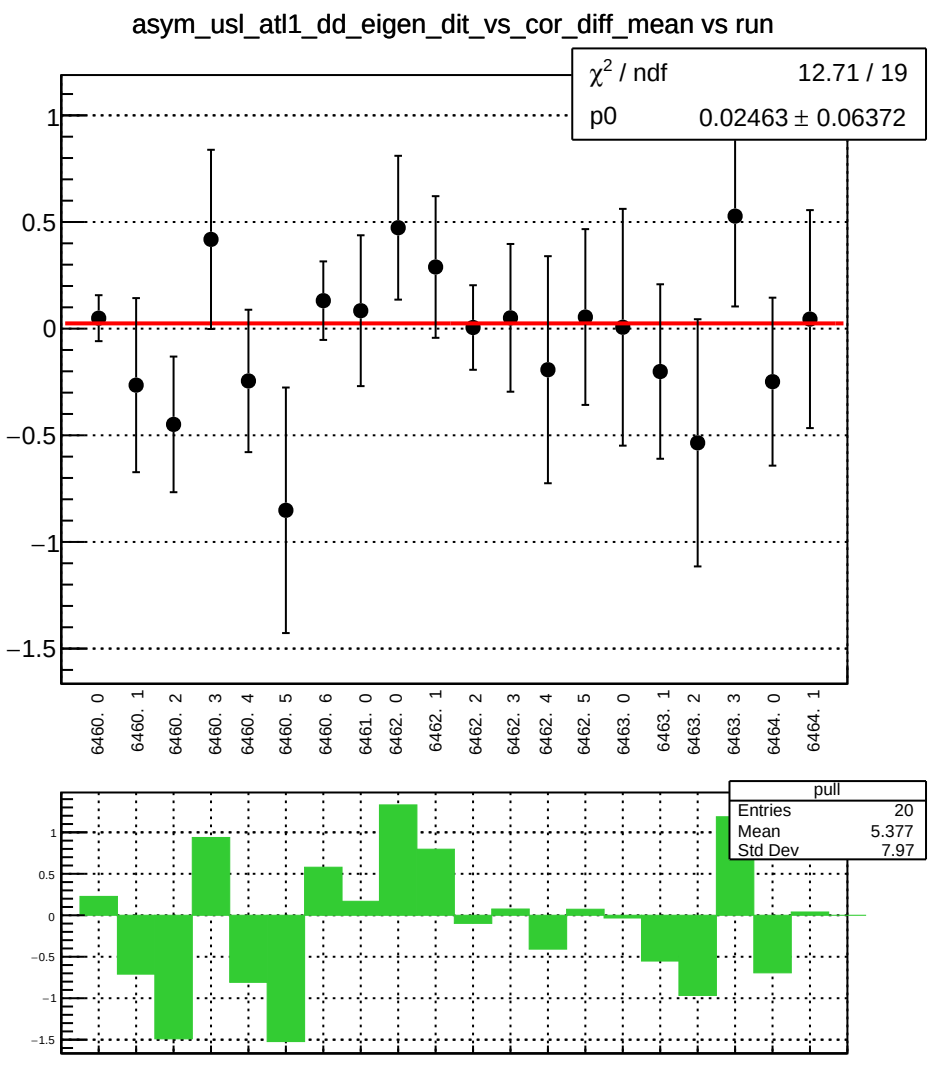

pull1D
Entries 20
Mean −0.09324
Std Dev 0.7917
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

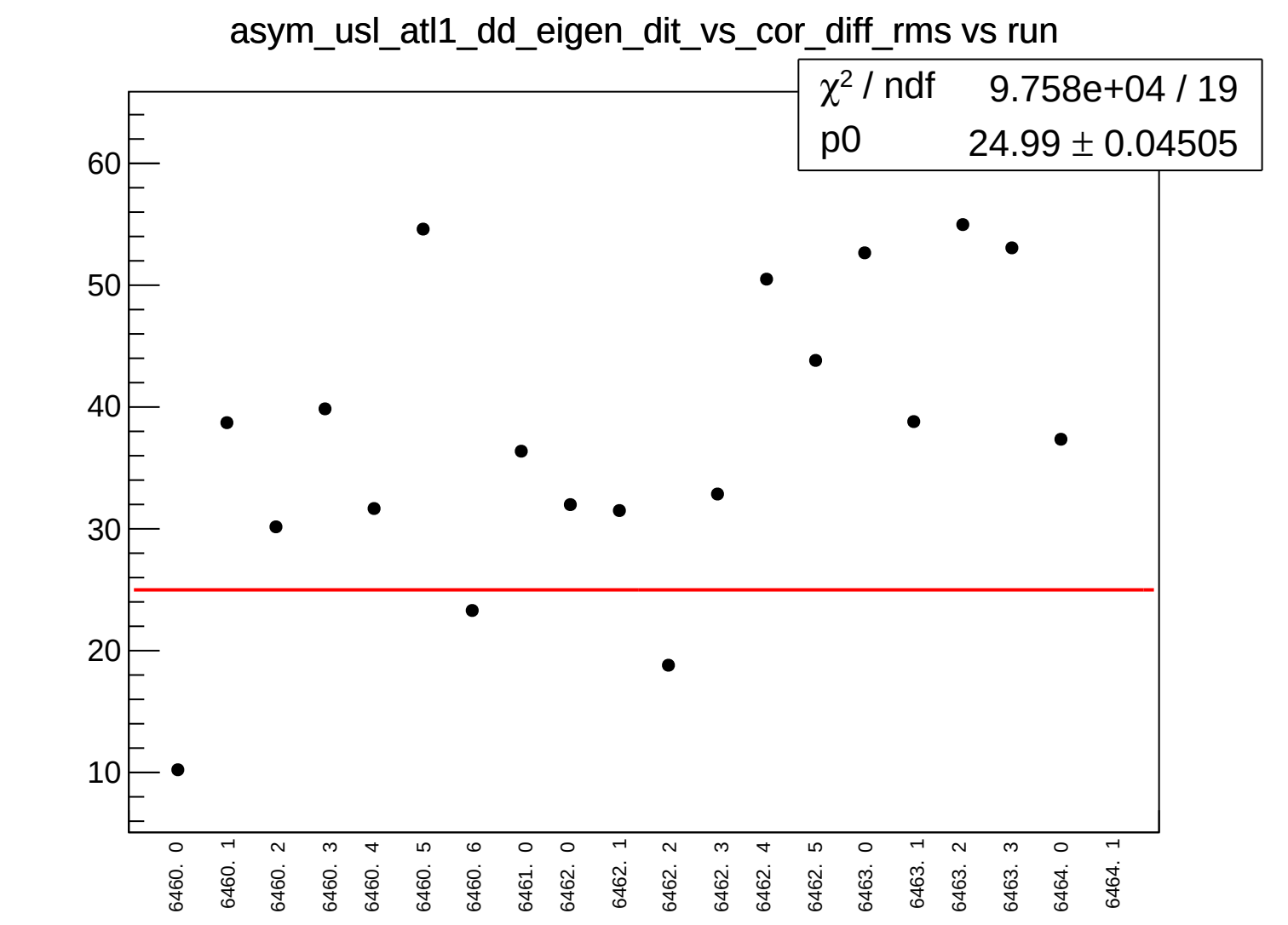

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.758e+04 / 19
p0 24.99 ± 0.04506
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

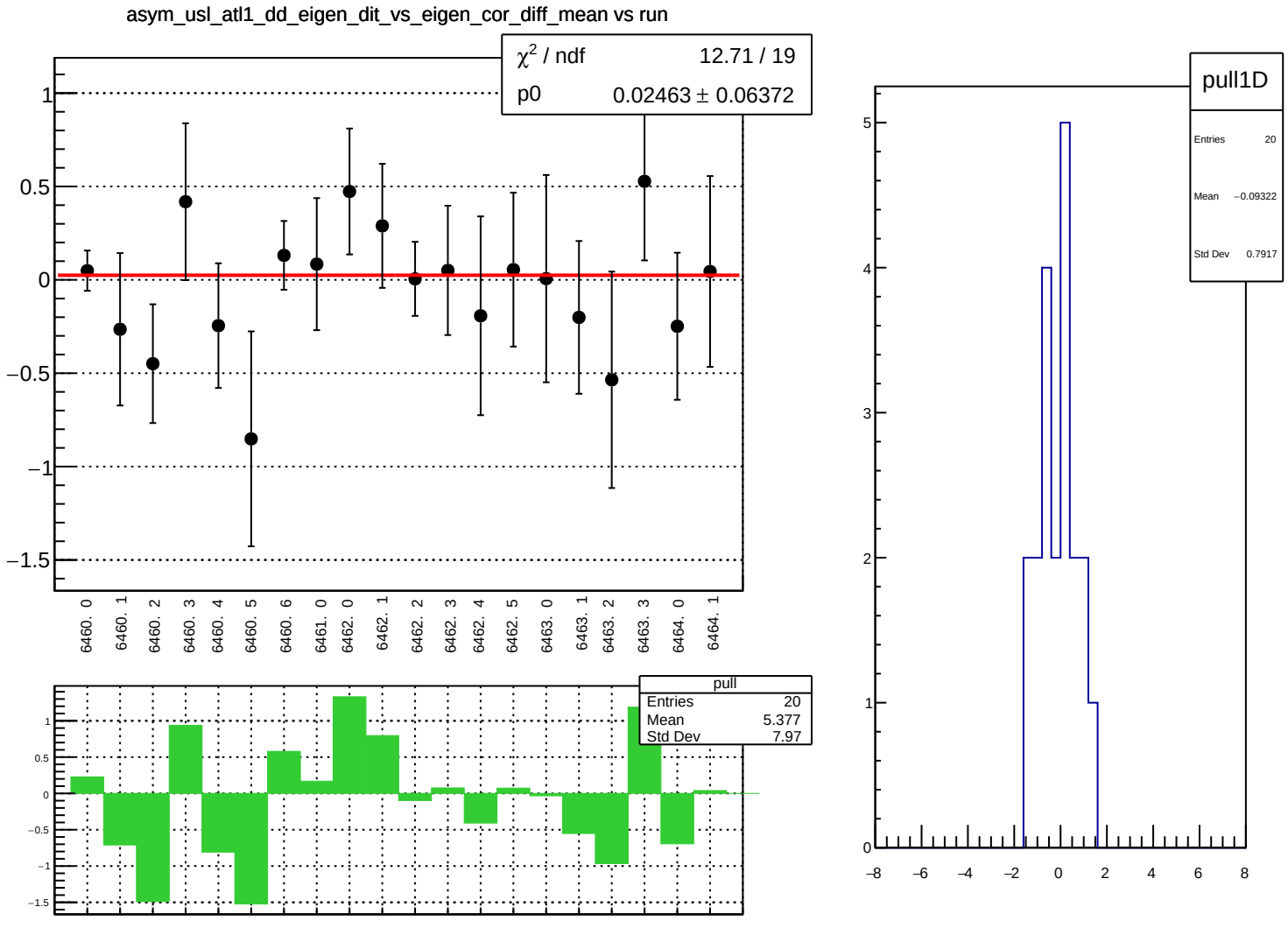

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 15.13 / 19
p0 −5.418e−06 ± 4.789e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

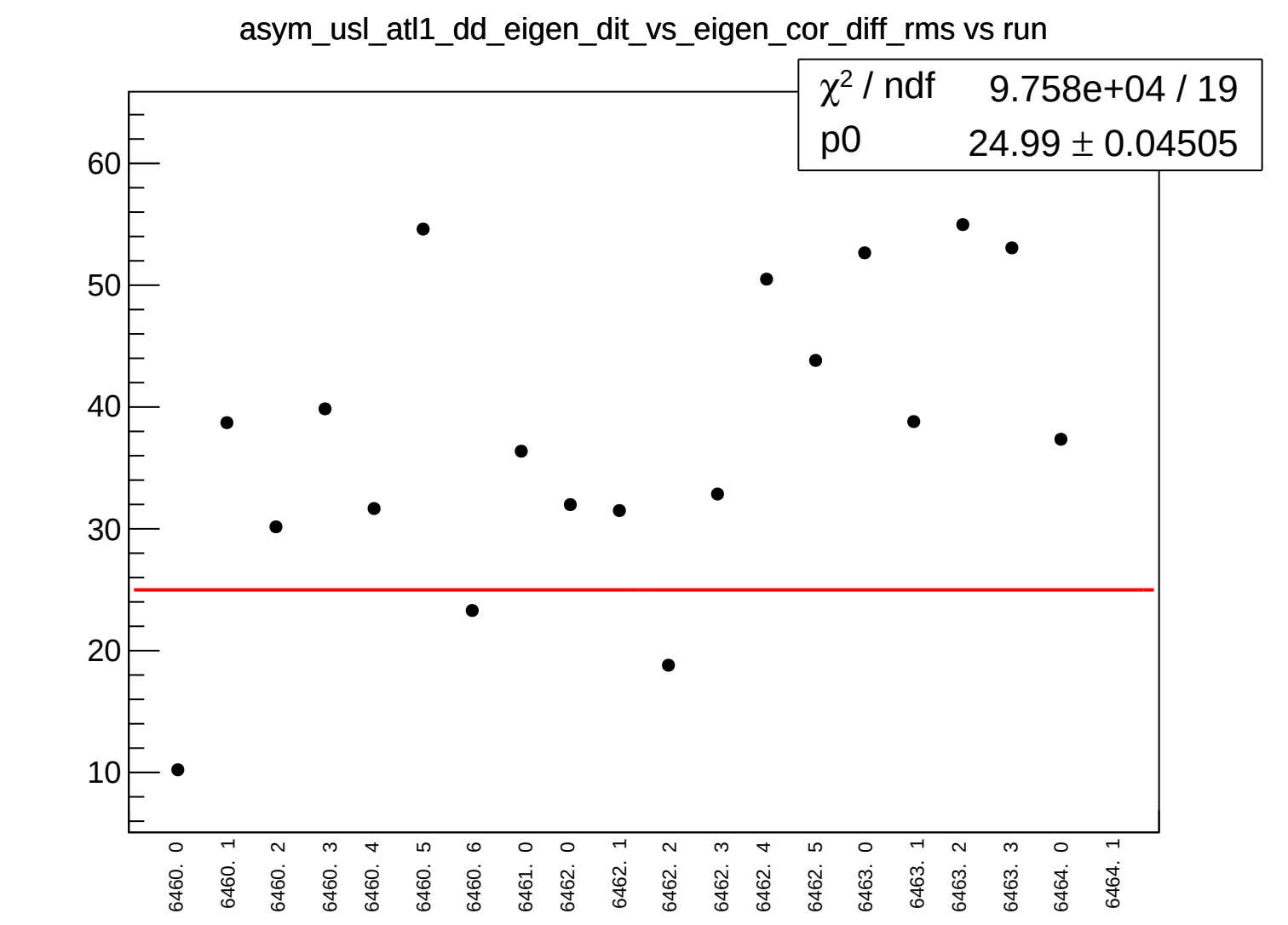

pull1D
Entries 20
Mean 0.02657
Std Dev 0.8695
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

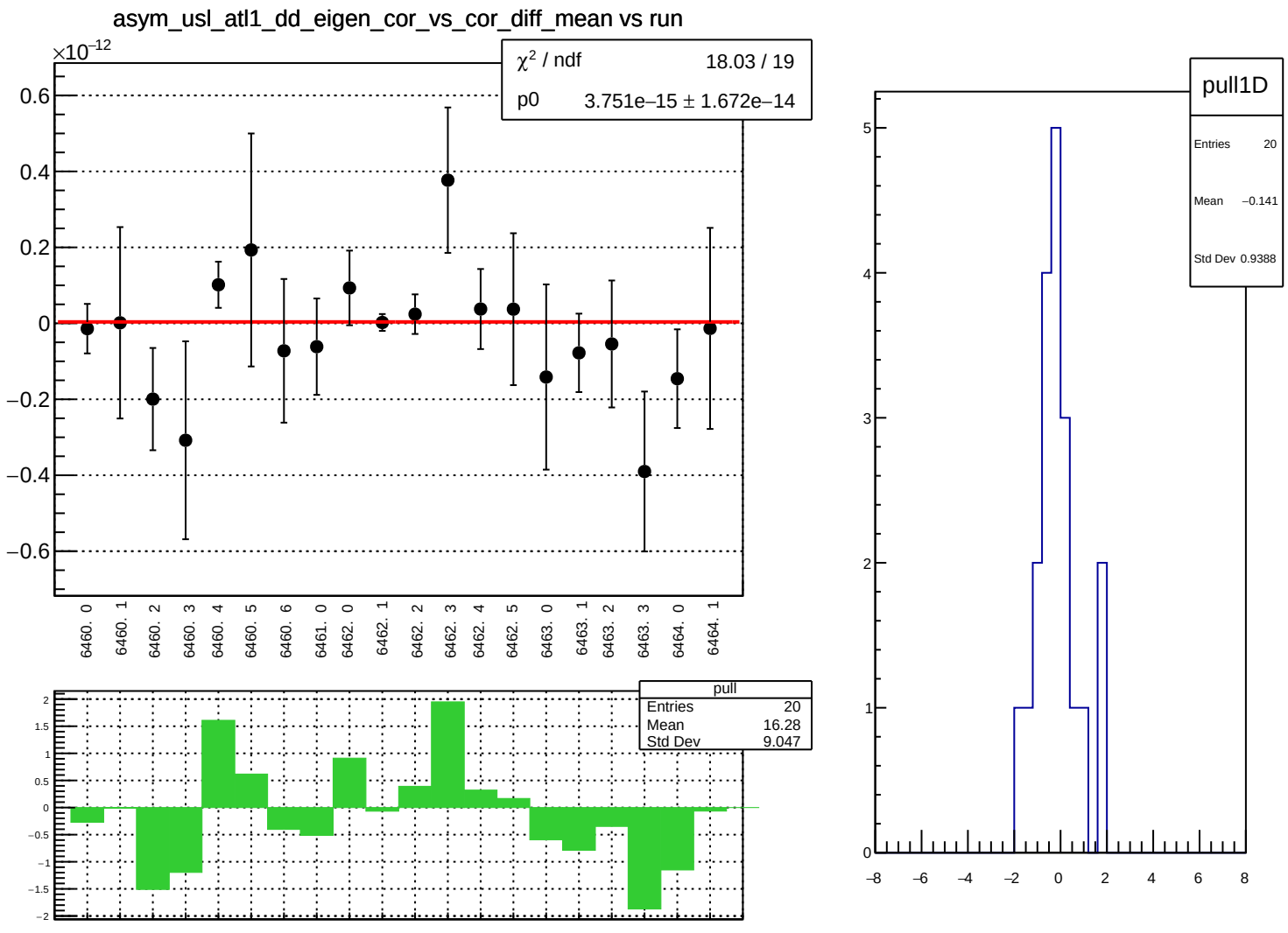

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 635 / 19
p0 0.002154 ± 3.386e−06
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

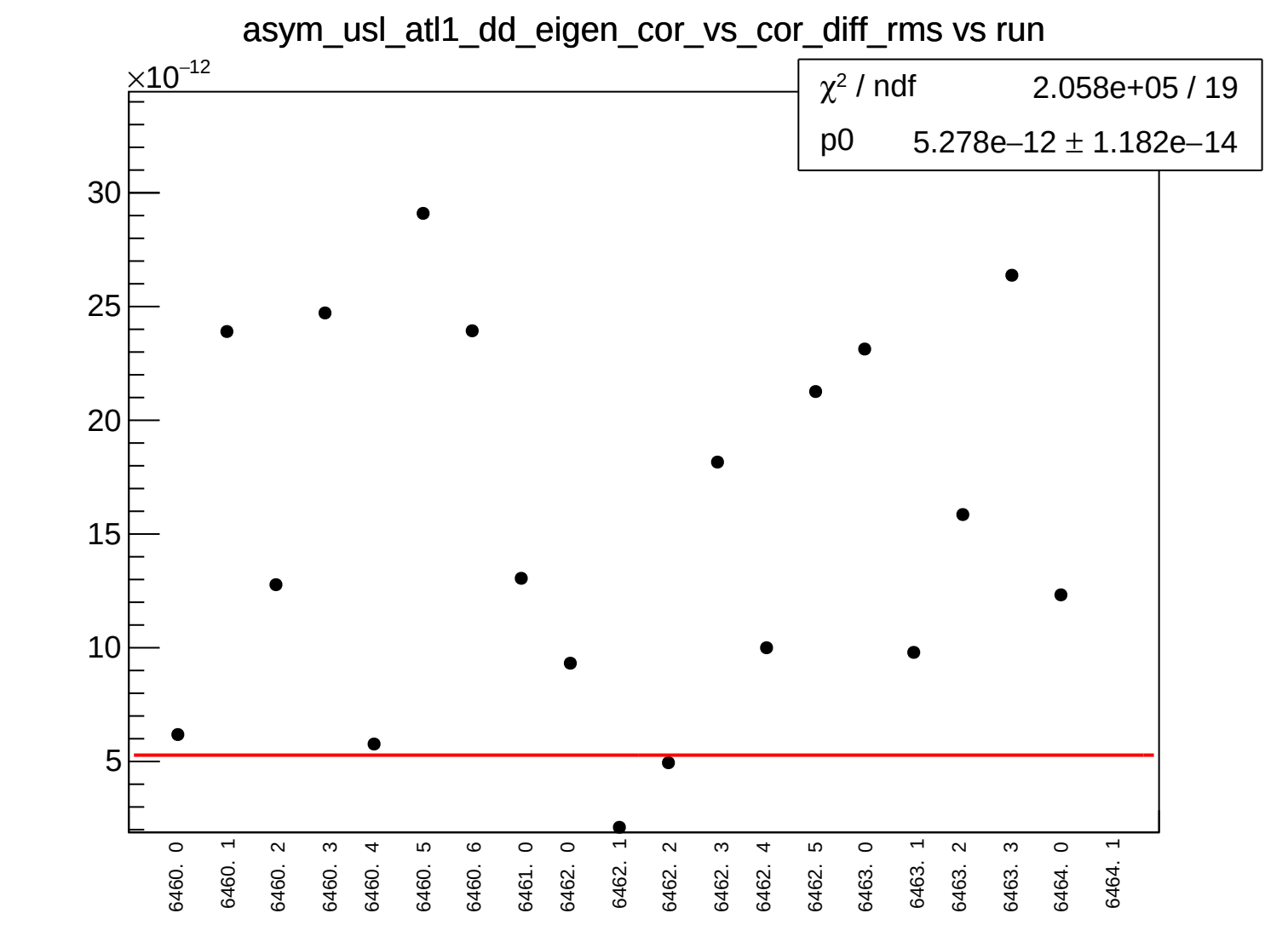

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 12.71 / 19
p0 0.02463 ± 0.06372
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.377
Std Dev 7.97
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.09322
Std Dev 0.7917
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

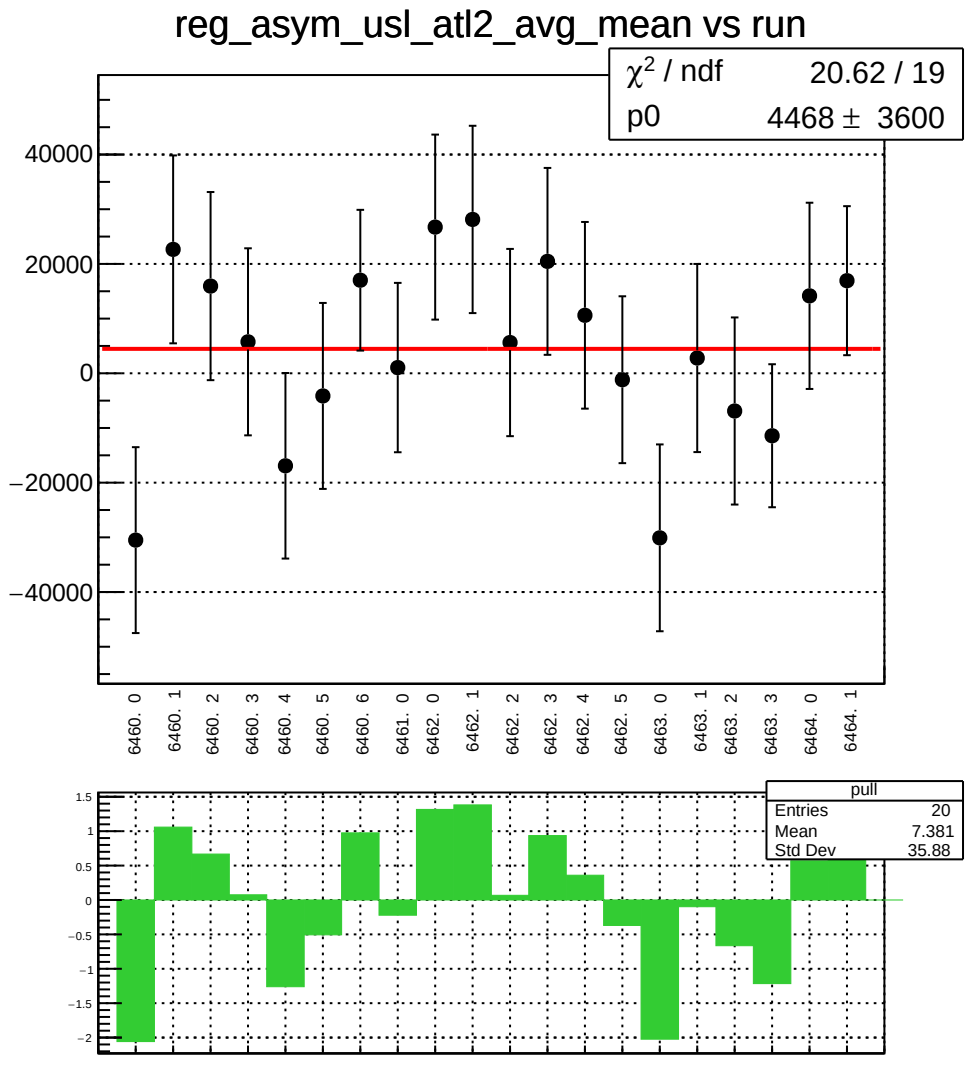

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.758e+04 / 19
p0 24.99 ± 0.04505
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

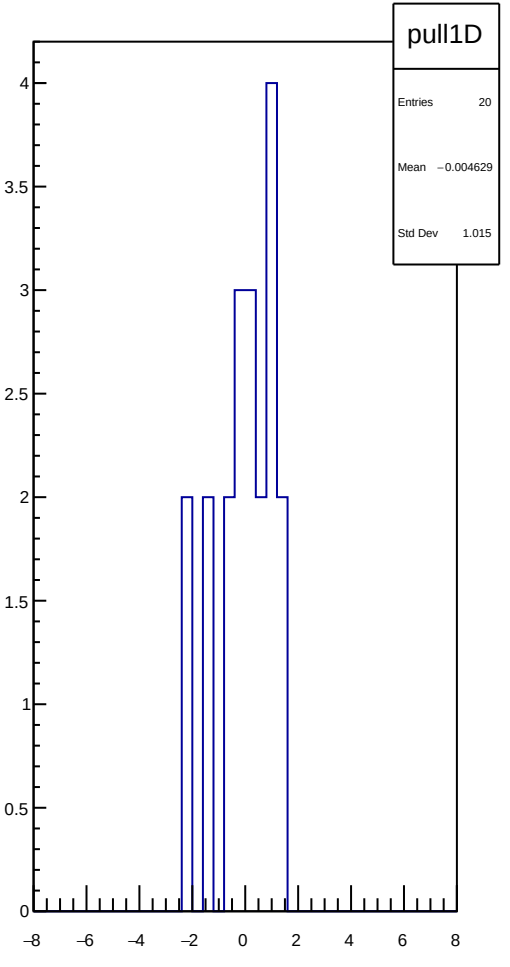

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.71 / 19
p0 0.02463 ± 0.06372
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.377
Std Dev 7.97
pull1D
Entries 20
Mean −0.09322
Std Dev 0.7917
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

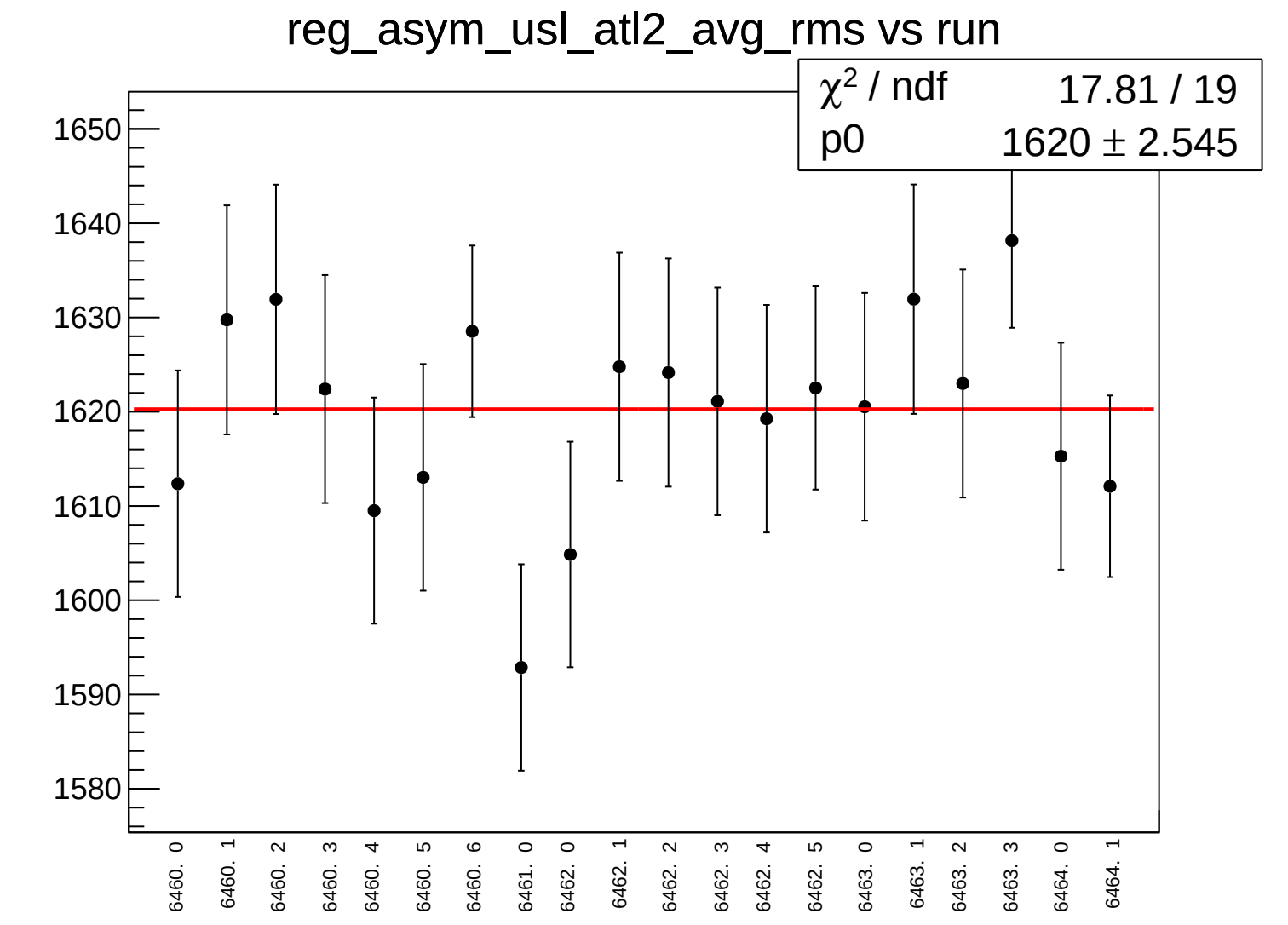

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.758e+04 / 19
p0 24.99 ± 0.04505
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

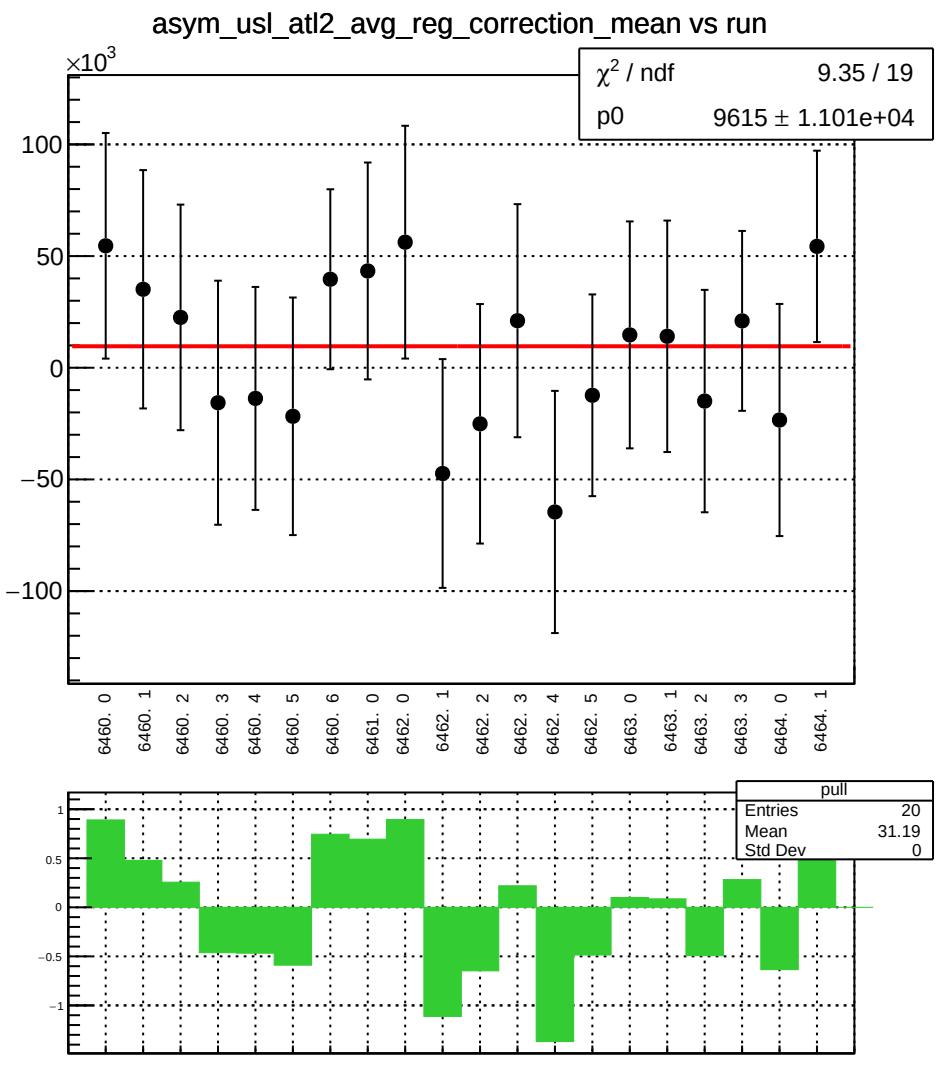

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.03 / 19
p0 3.751e−15 ± 1.672e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.28
Std Dev 9.047
pull1D
Entries 20
Mean −0.141
Std Dev 0.9388

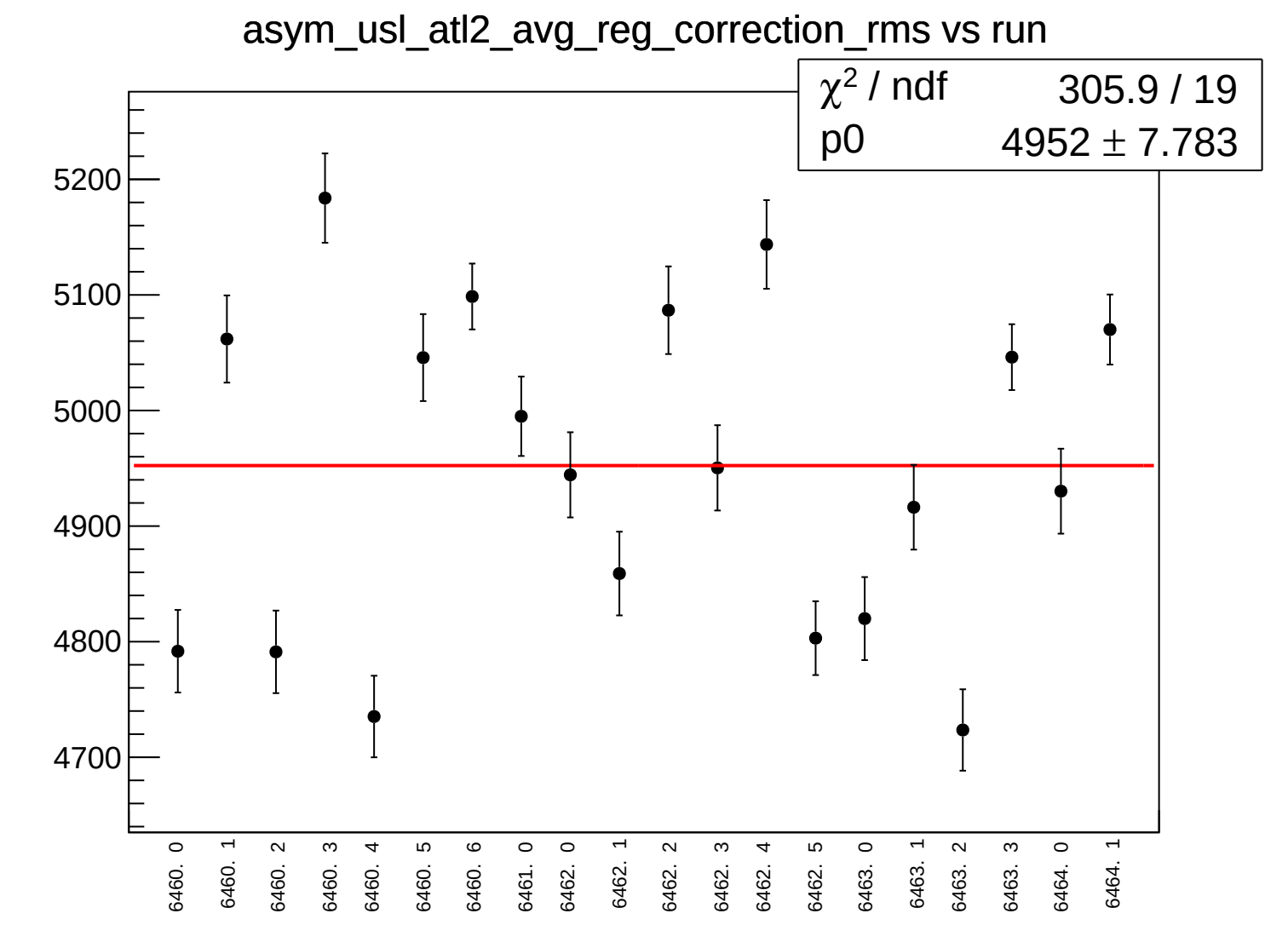

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.058e+05 / 19
p0 5.278e−12 ± 1.182e−14
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

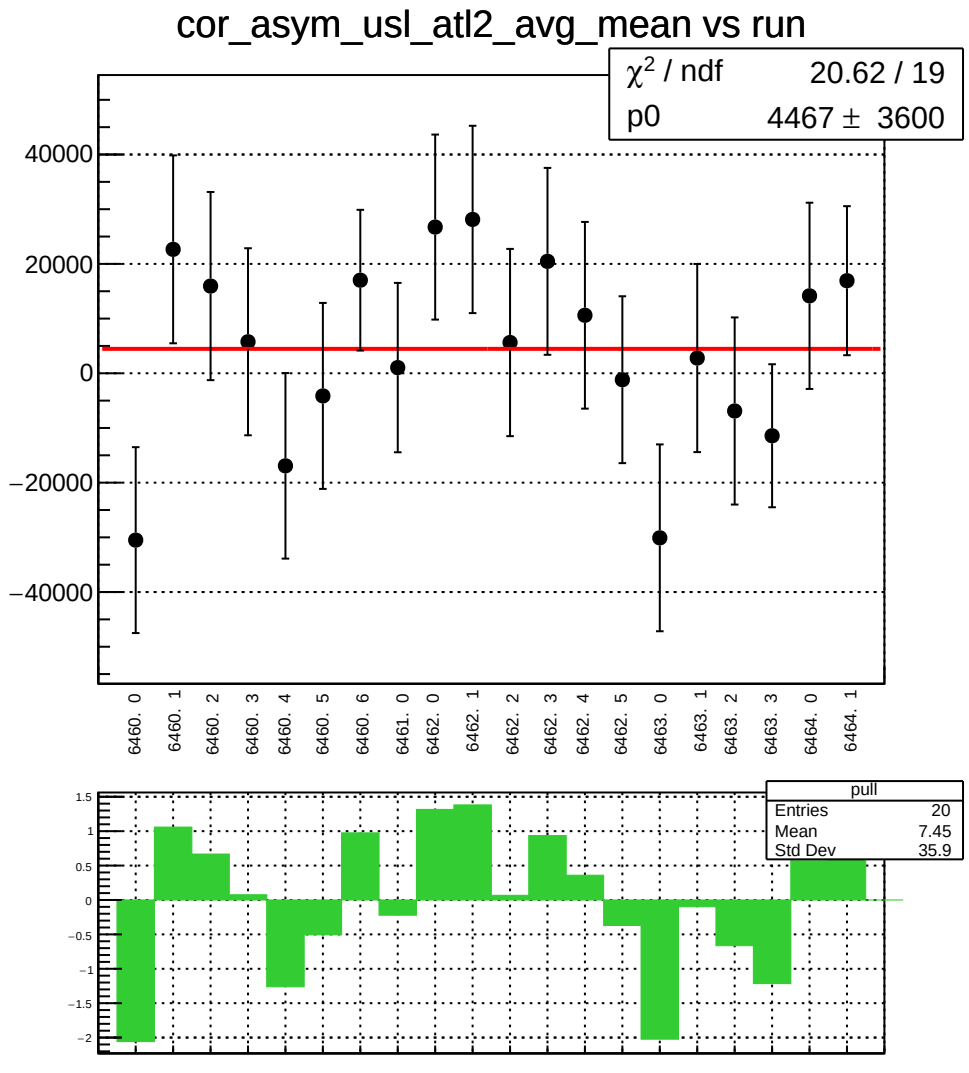

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 20.62 / 19
p0 4468 ± 3600
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.381
Std Dev 35.88
1.5
1
0.5
0
−0.5
−1
−1.5
−2

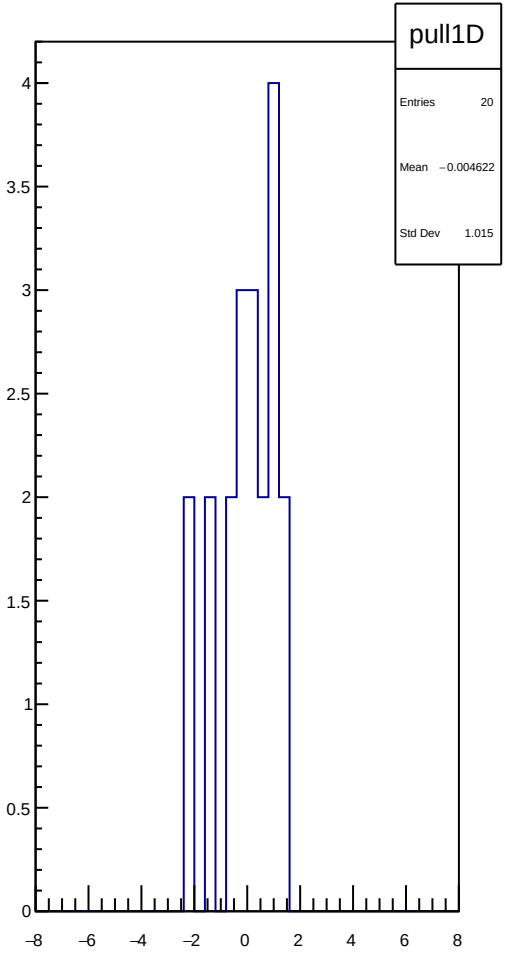

pull1D
Entries 20
Mean −0.004629
Std Dev 1.015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

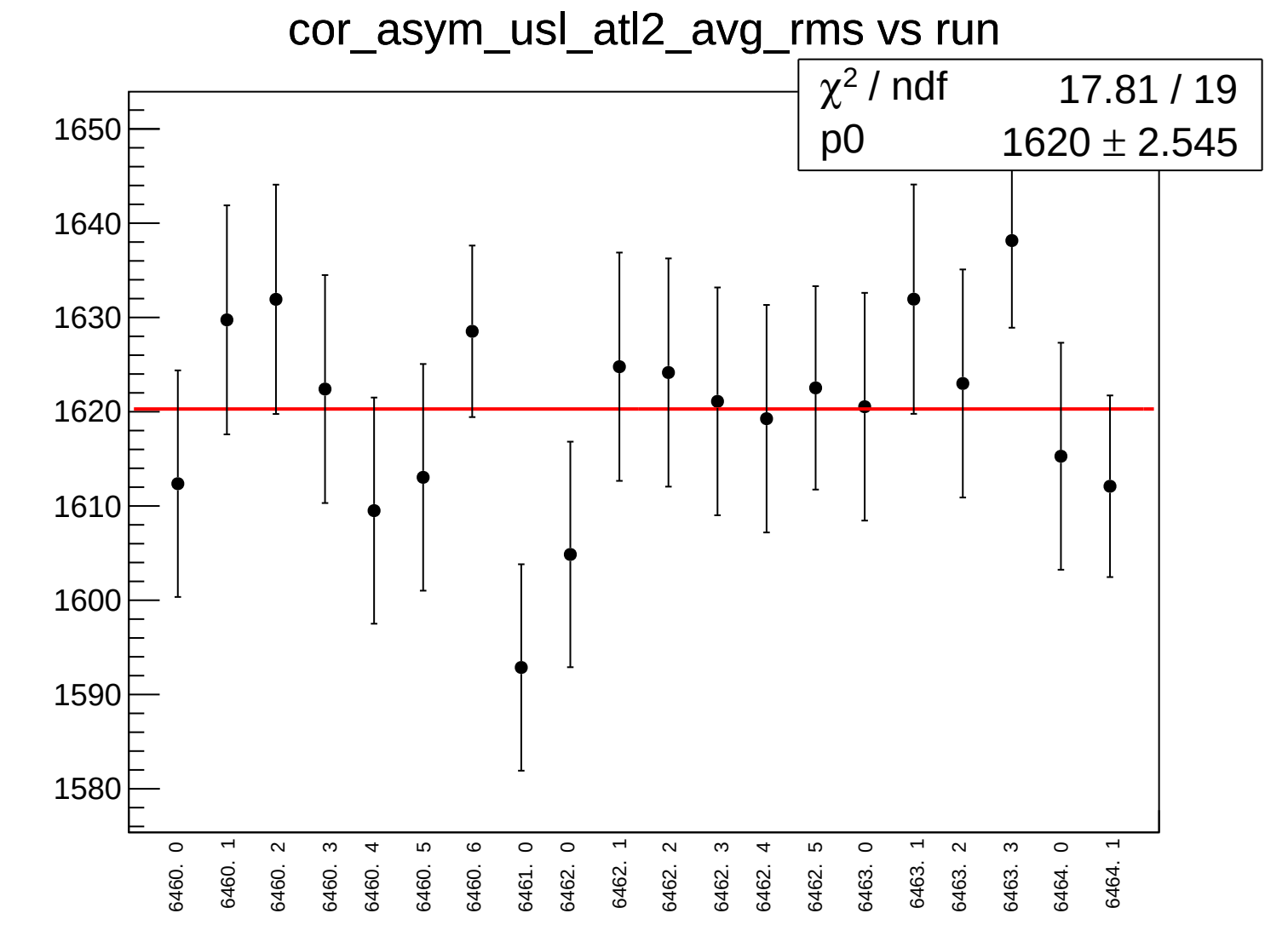

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 17.81 / 19
p0 1620 ± 2.545
1650
1640
1630
1620
1610
1600
1590
1580
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

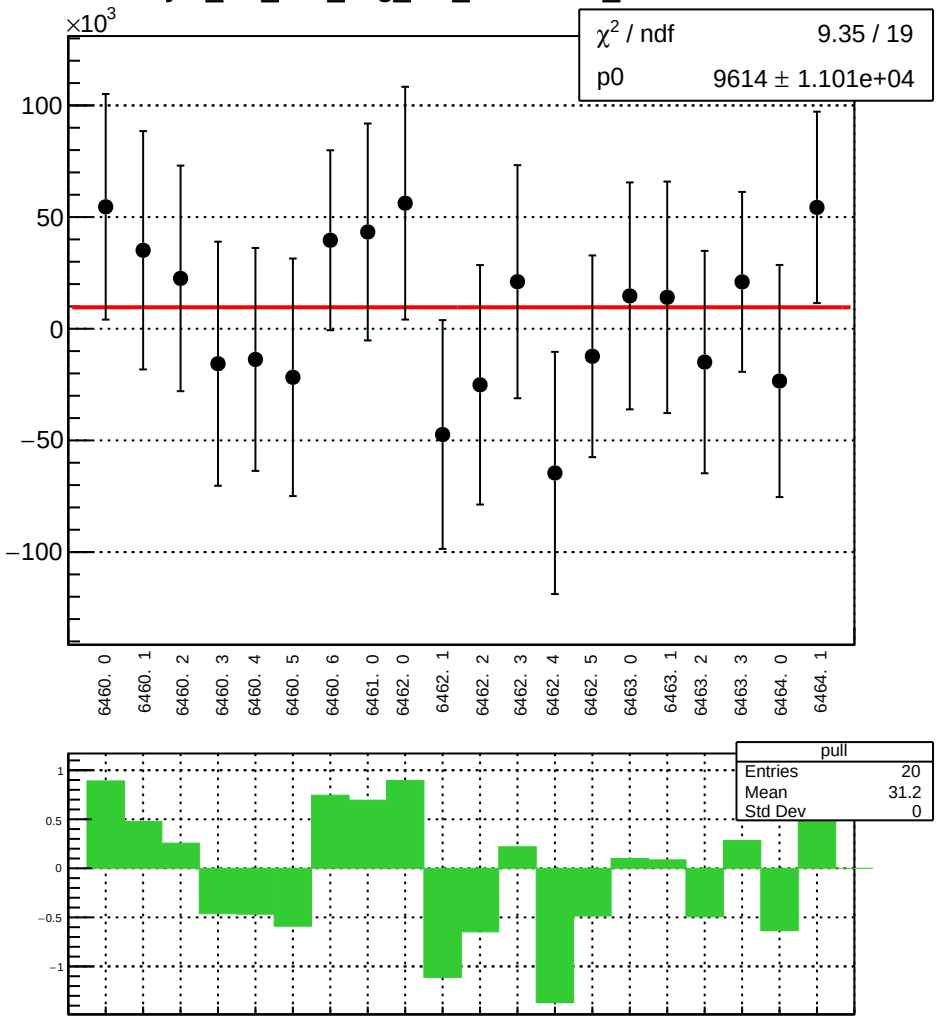

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 9.35 / 19
p0 9615 ± 1.101e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.19
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02856
Std Dev 0.6832
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

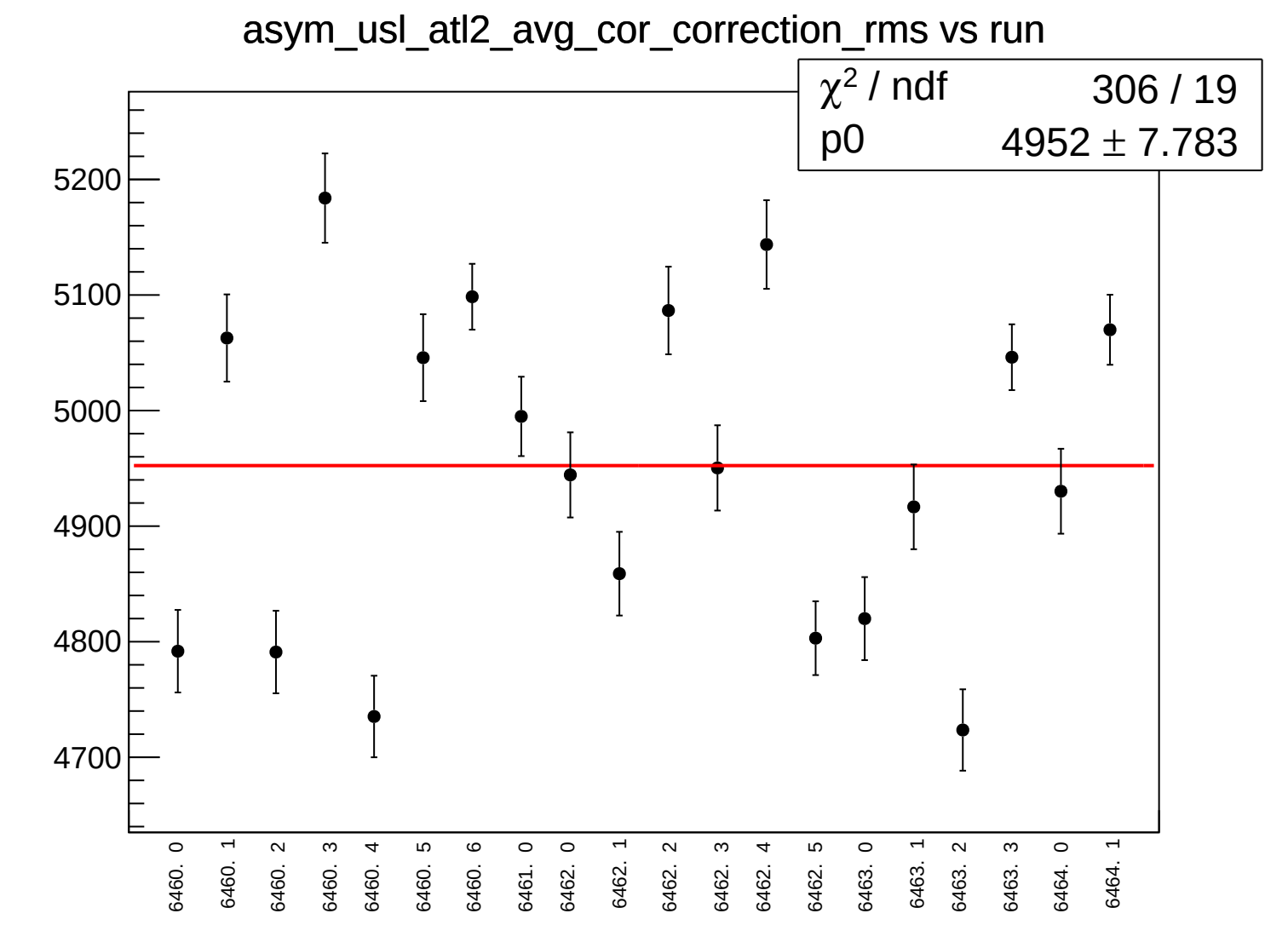

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 305.9 / 19
p0 4952 ± 7.783
5200
5100
5000
4900
4800
4700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

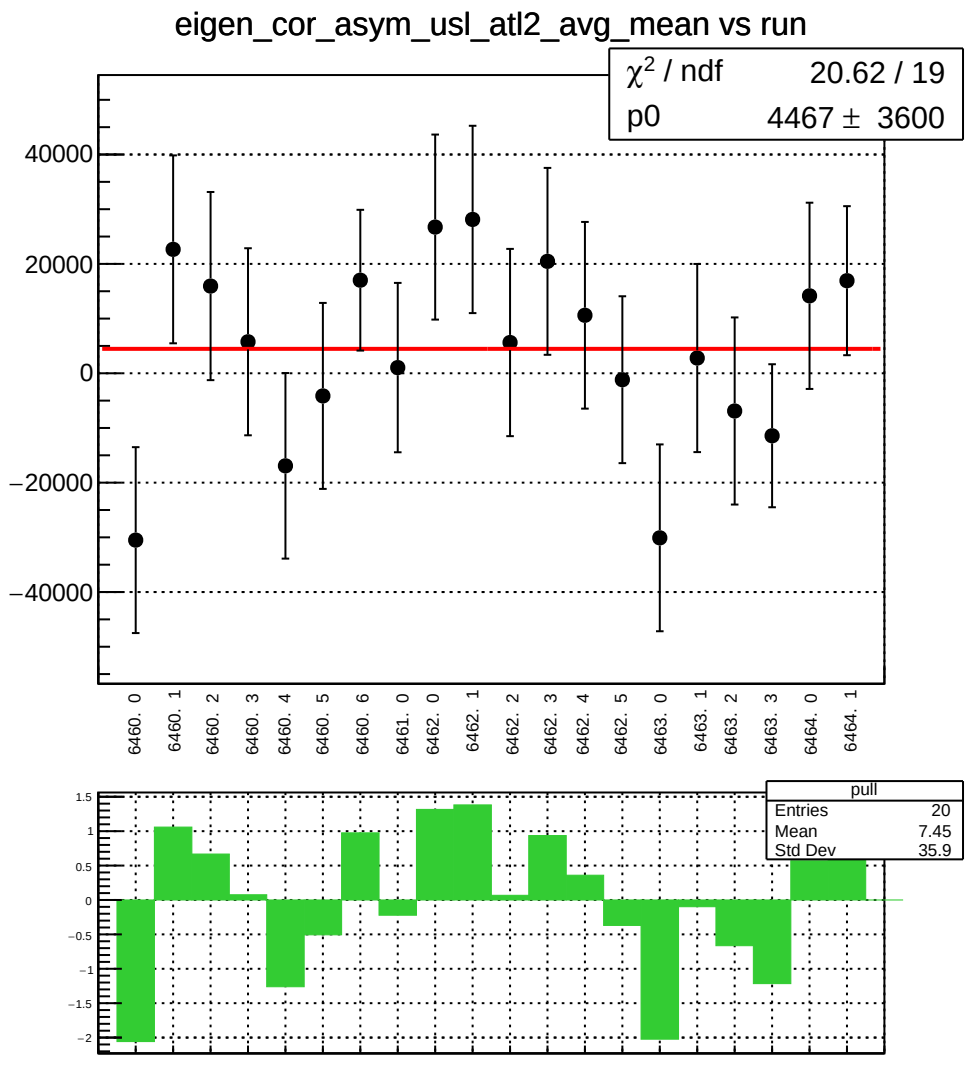

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 20.62 / 19
p0 4467 ± 3600
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.45
Std Dev 35.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

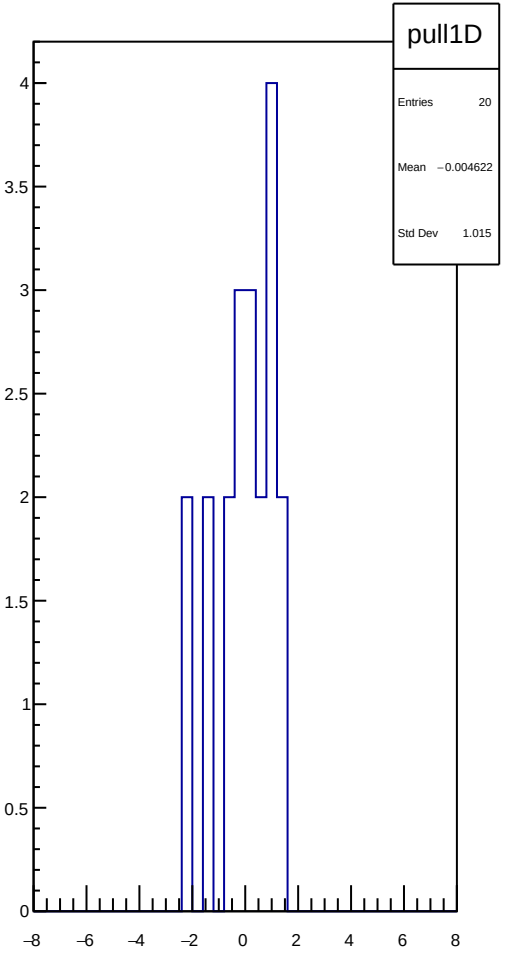

pull1D
Entries 20
Mean −0.004622
Std Dev 1.015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

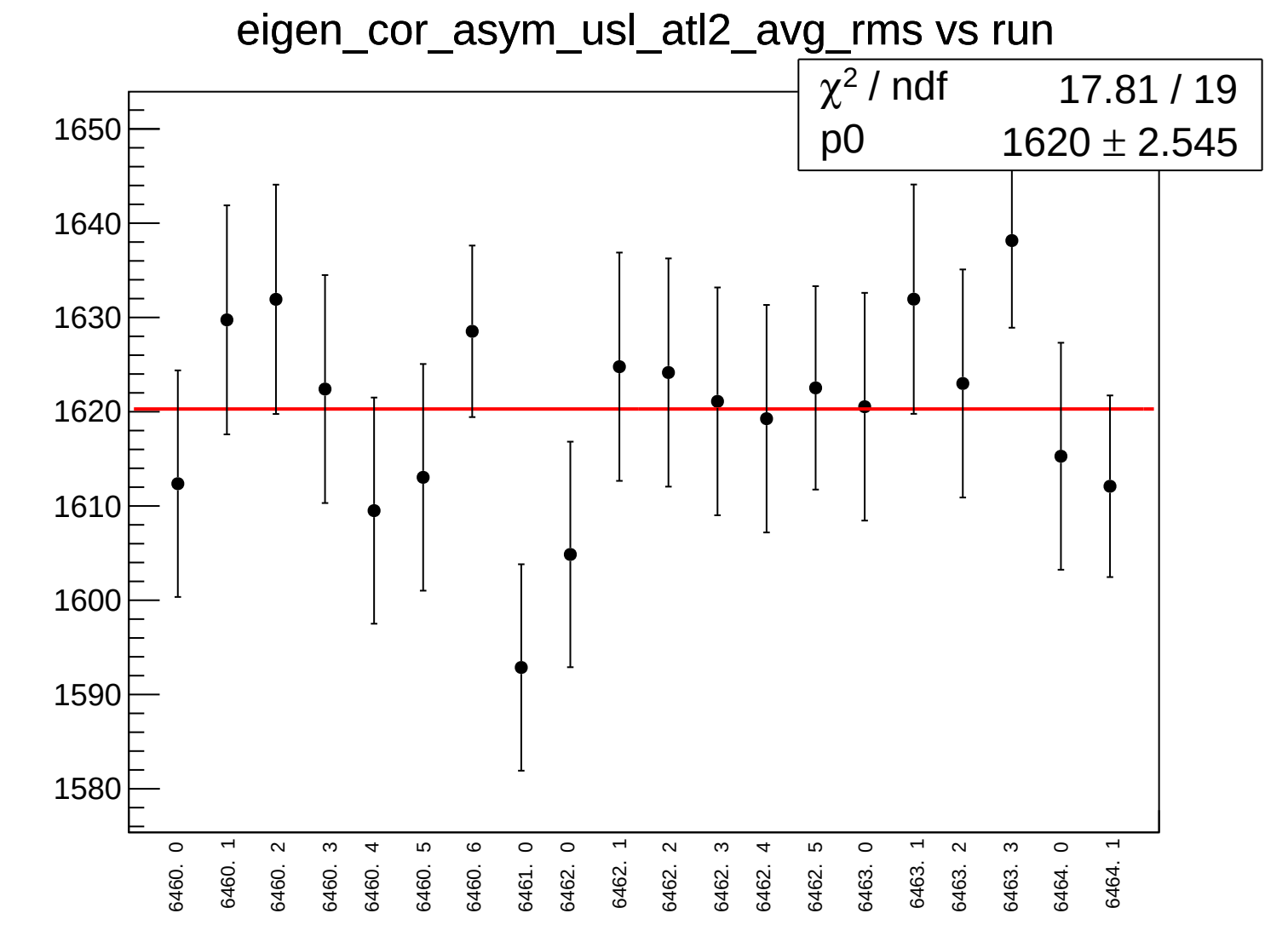

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 17.81 / 19
p0 1620 ± 2.545
1650
1640
1630
1620
1610
1600
1590
1580
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

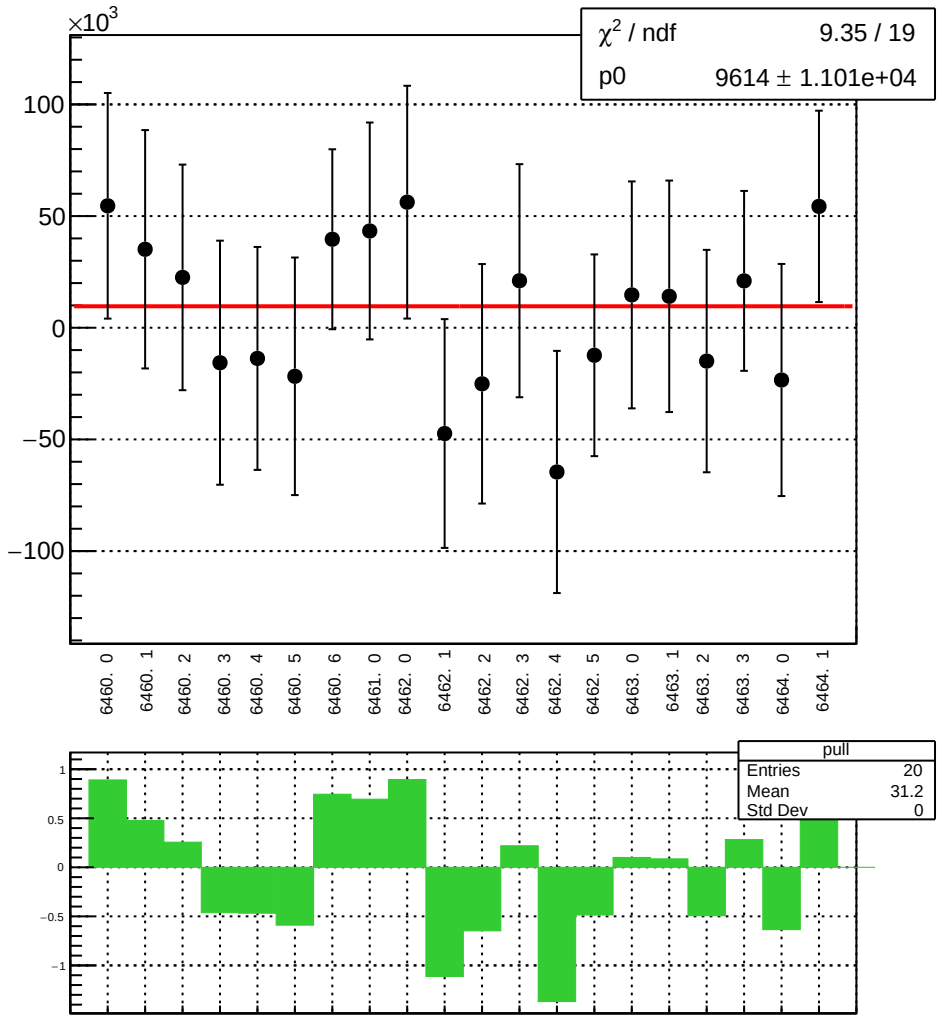

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 9.35 / 19
p0 9614 ± 1.101e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02855
Std Dev 0.6832
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

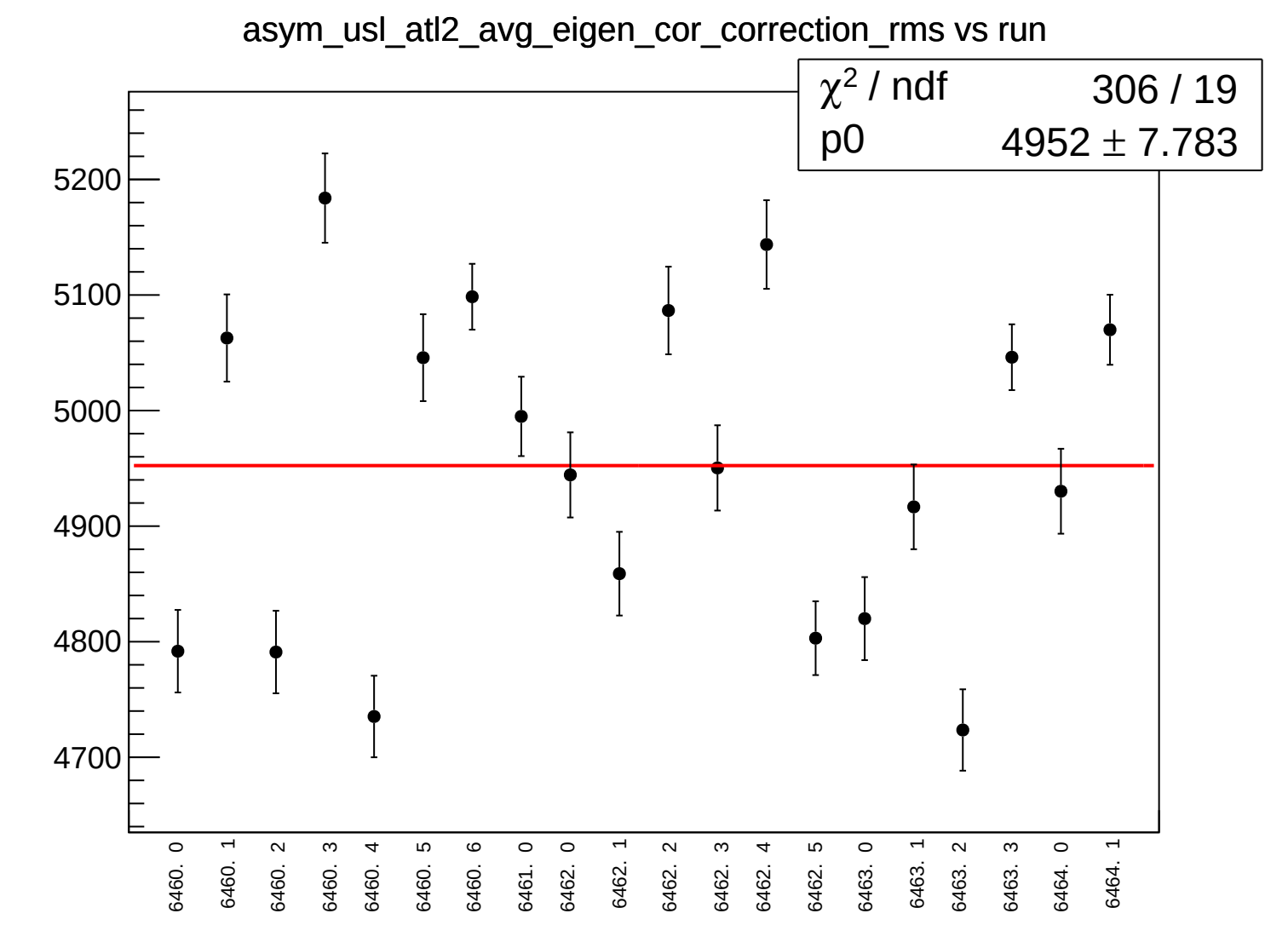

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 306 / 19
p0 4952 ± 7.783
5200
5100
5000
4900
4800
4700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

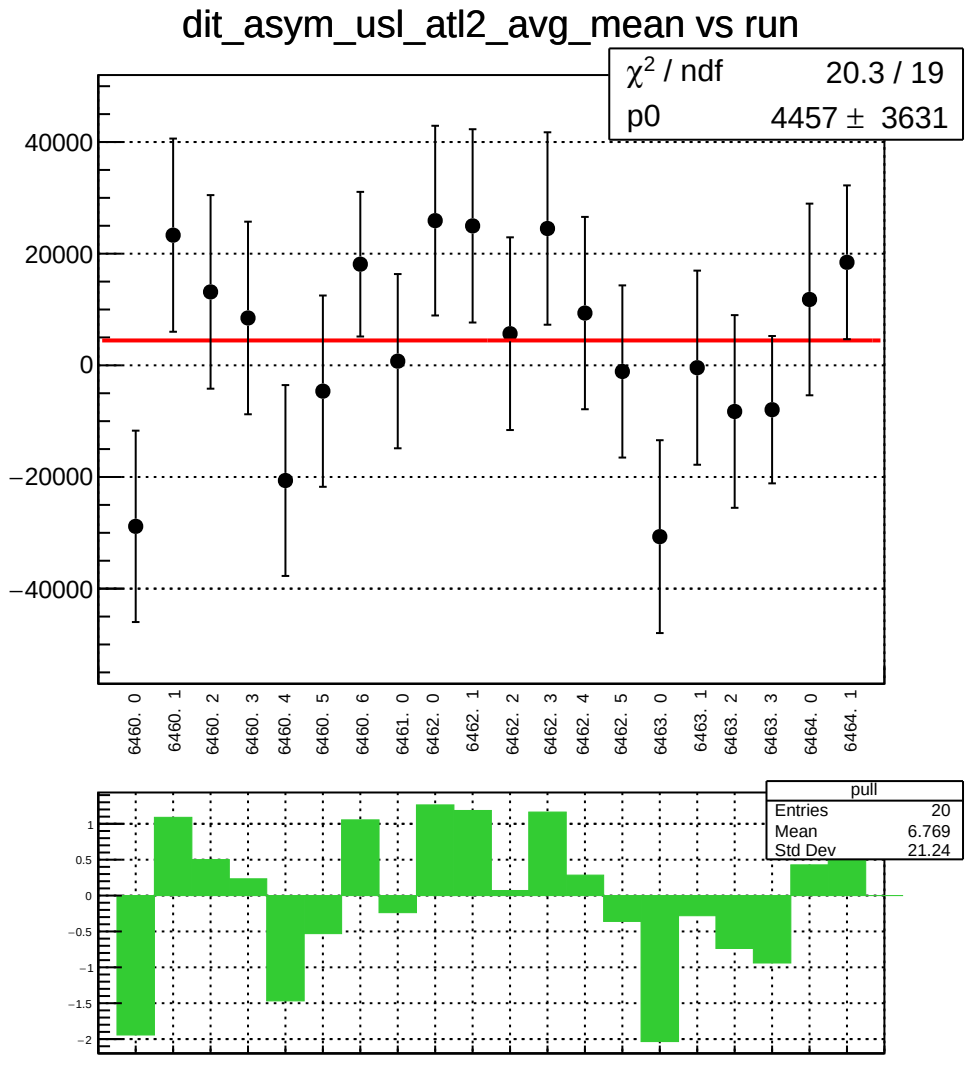

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 20.62 / 19
p0 4467 ± 3600
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.45
Std Dev 35.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

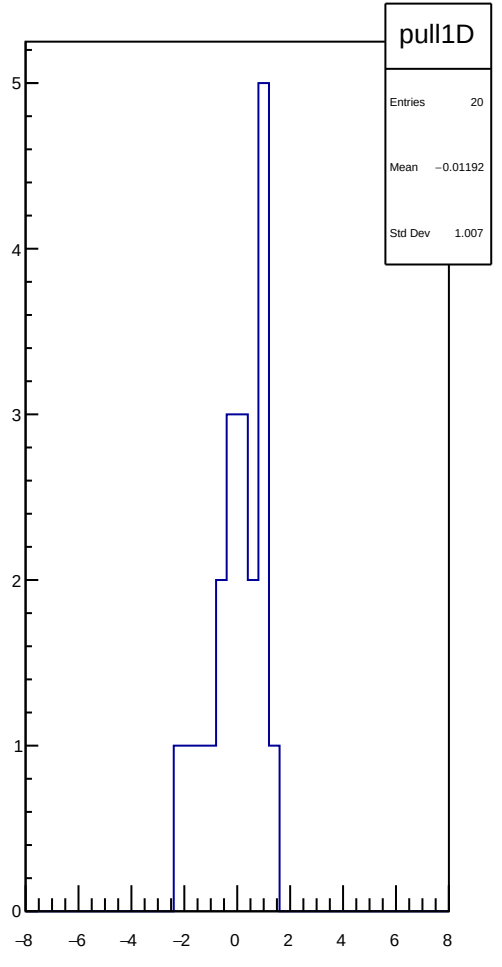

pull1D
Entries 20
Mean −0.004622
Std Dev 1.015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

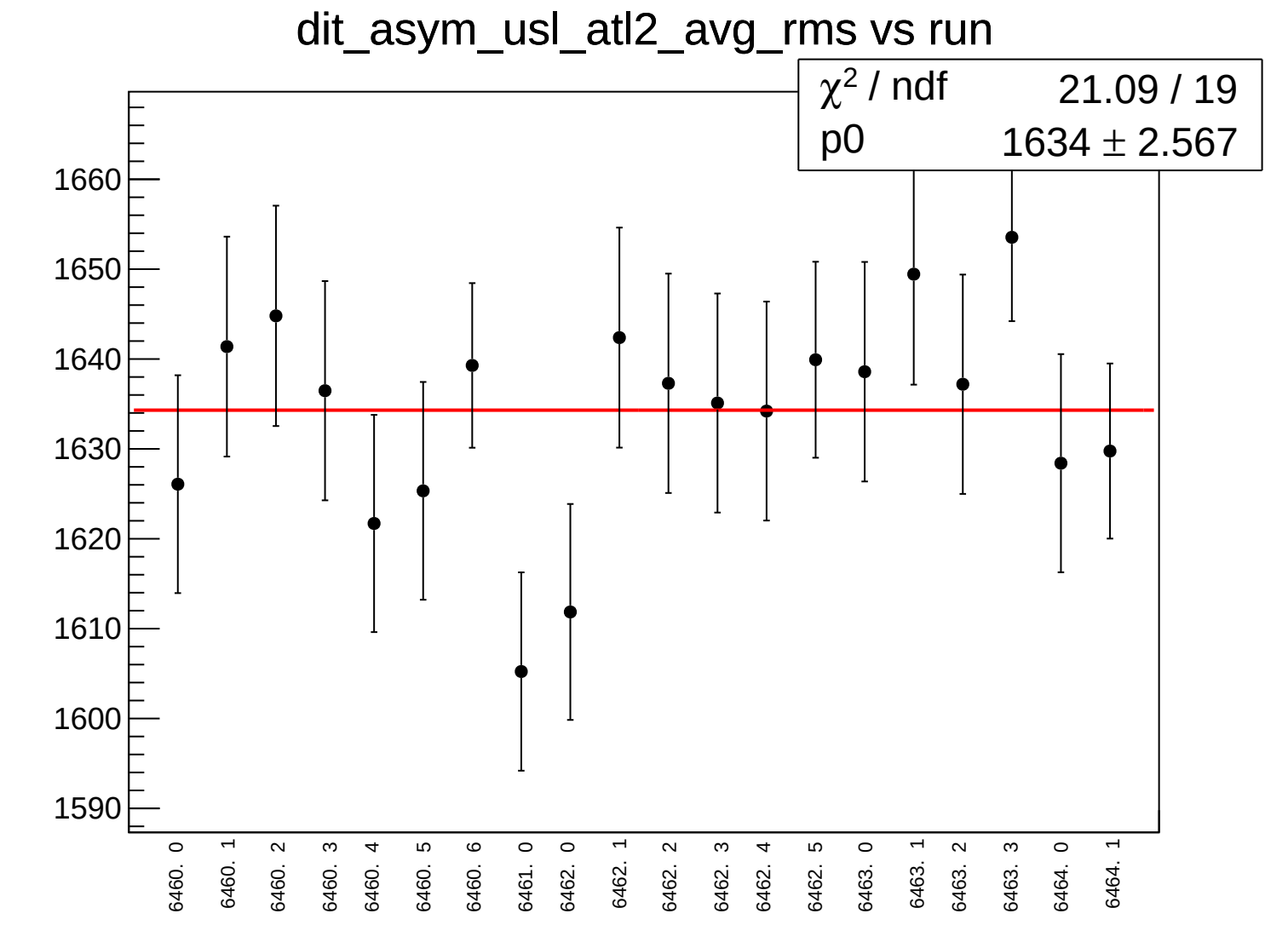

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 17.81 / 19
p0 1620 ± 2.545
1650
1640
1630
1620
1610
1600
1590
1580
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

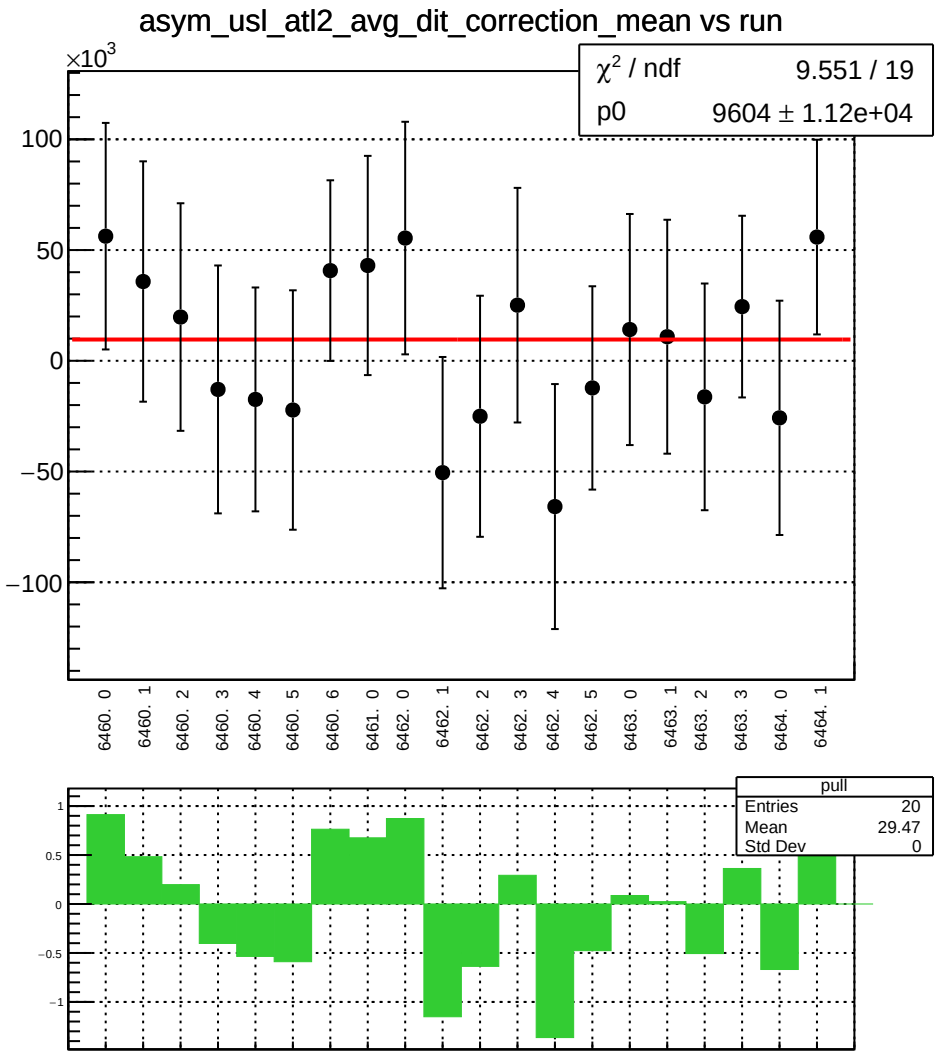

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 9.35 / 19
p0 9614 ± 1.101e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02855
Std Dev 0.6832
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

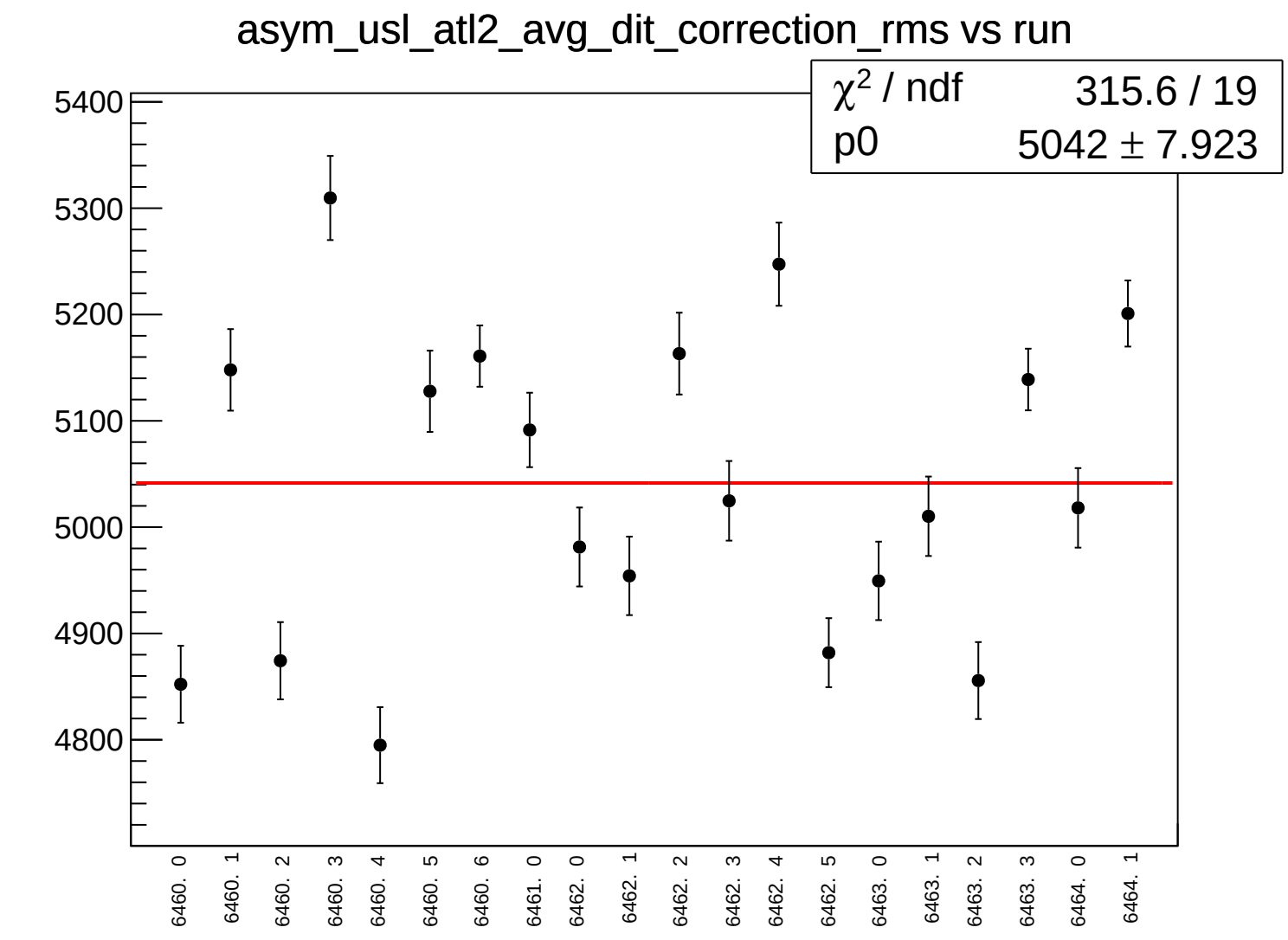

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 306 / 19
p0 4952 ± 7.783
5200
5100
5000
4900
4800
4700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

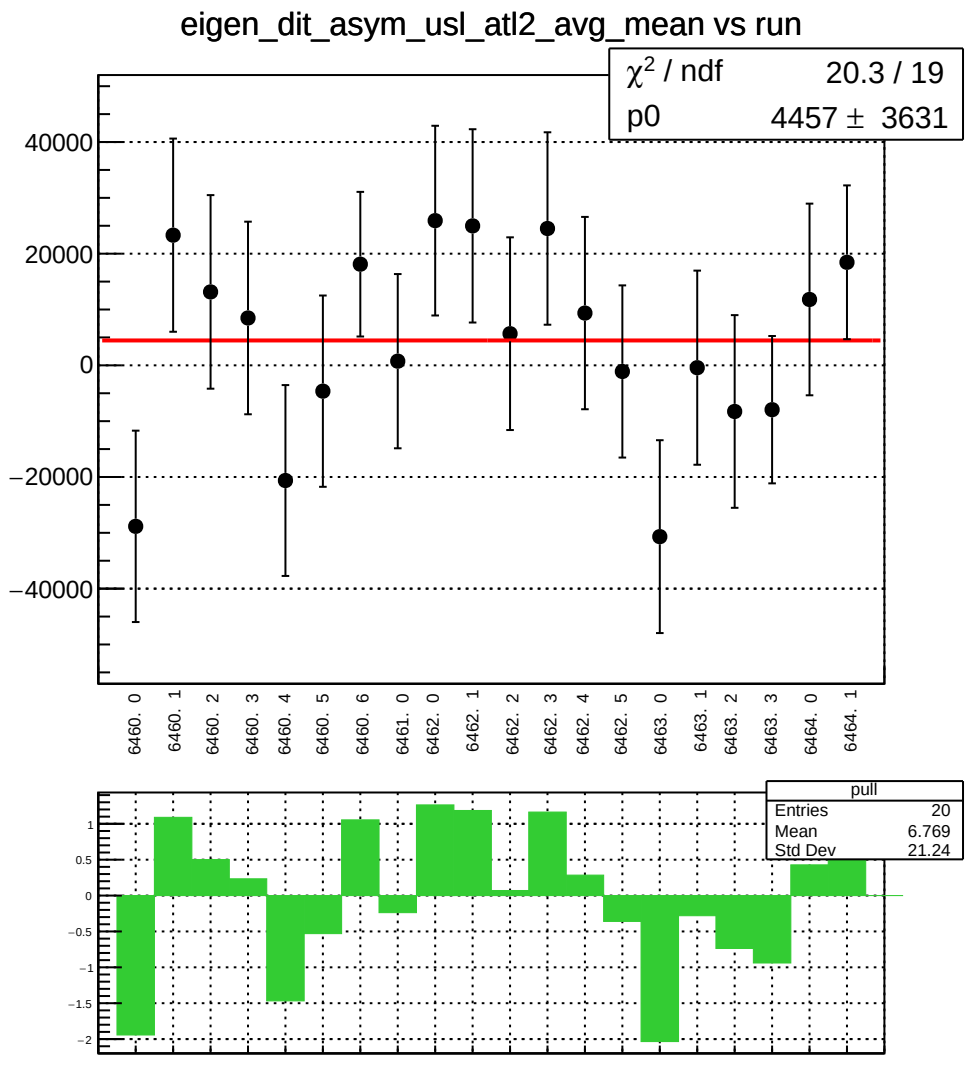

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 20.3 / 19
p0 4457 ± 3631
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.769
Std Dev 21.24
1
0.5
0
−0.5
−1
−1.5
−2

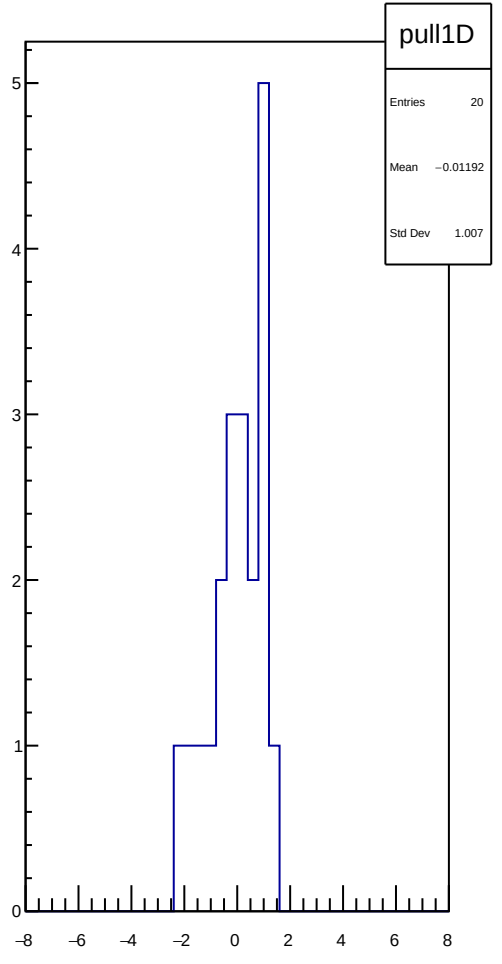

pull1D
Entries 20
Mean −0.01192
Std Dev 1.007
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

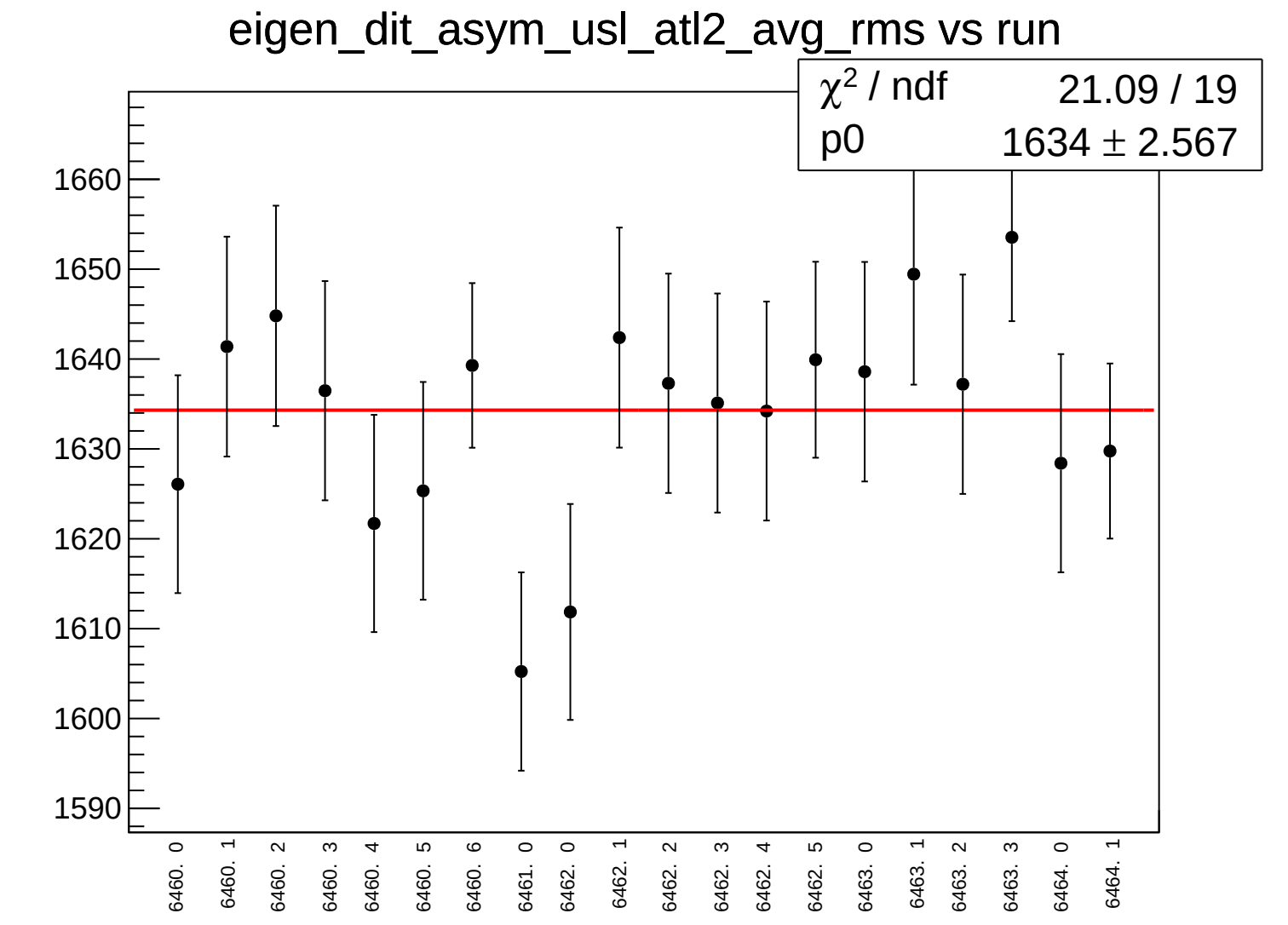

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 21.09 / 19
p0 1634 ± 2.567
1660
1650
1640
1630
1620
1610
1600
1590
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

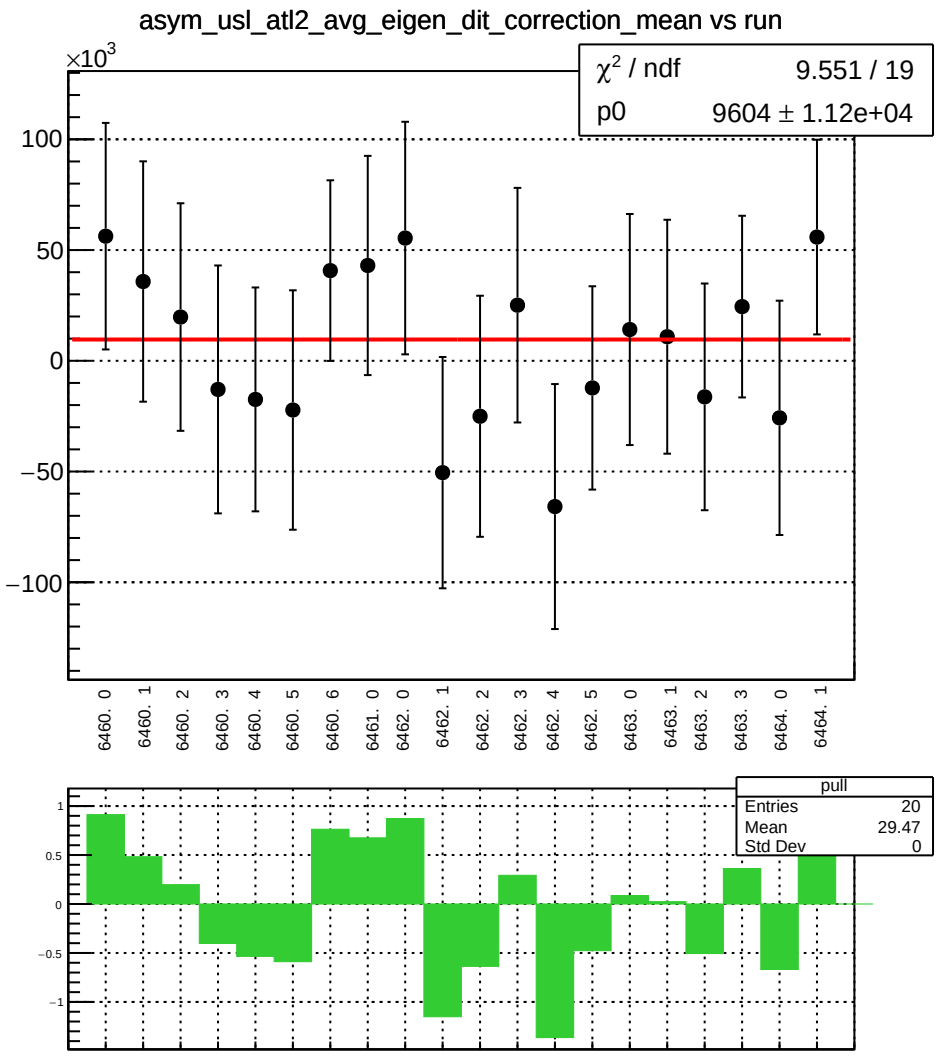

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 9.551 / 19
p0 9604 ± 1.12e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.47
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.03036
Std Dev 0.6904
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

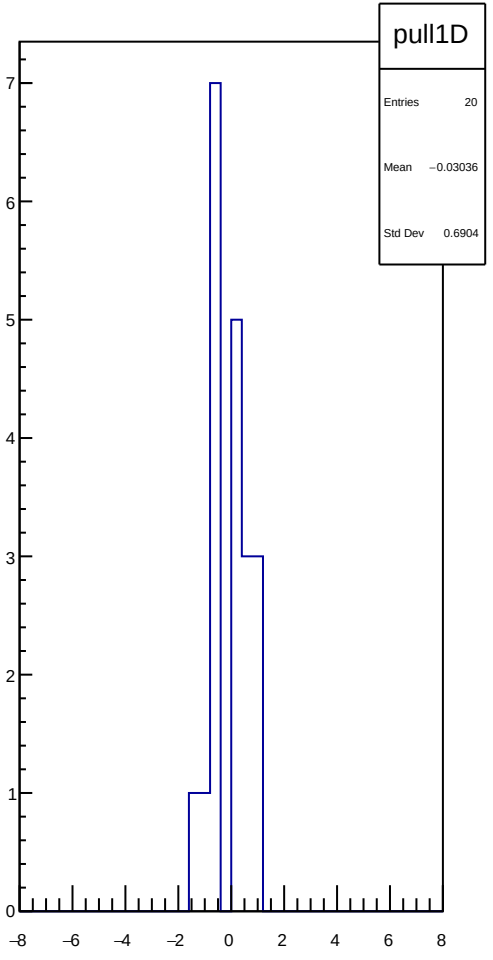

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 315.6 / 19
p0 5042 ± 7.923
5400
5300
5200
5100
5000
4900
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

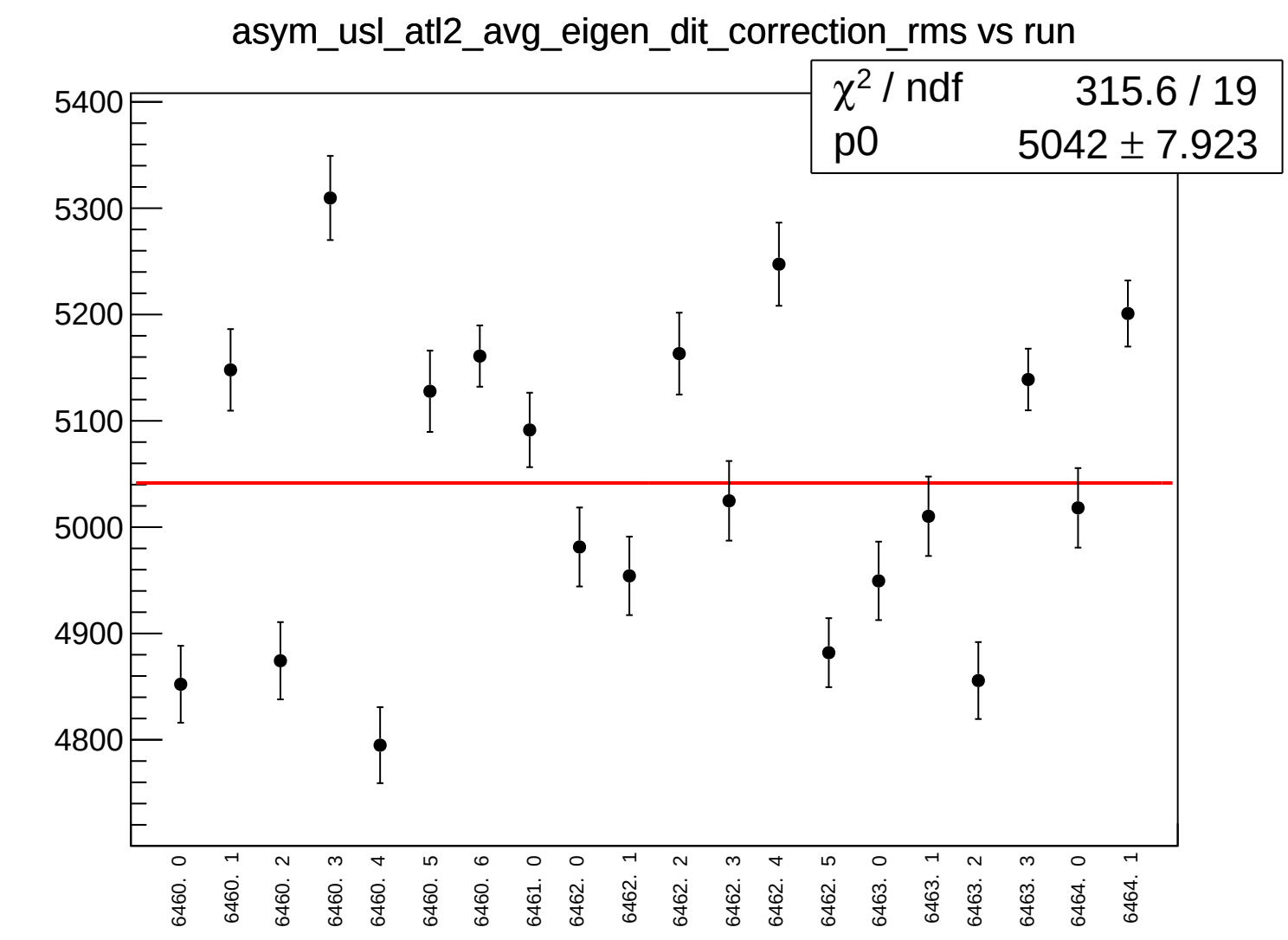

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 20.3 / 19
p0 4457 ± 3631
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.769
Std Dev 21.24
1
0.5
0
−0.5
−1
−1.5
−2

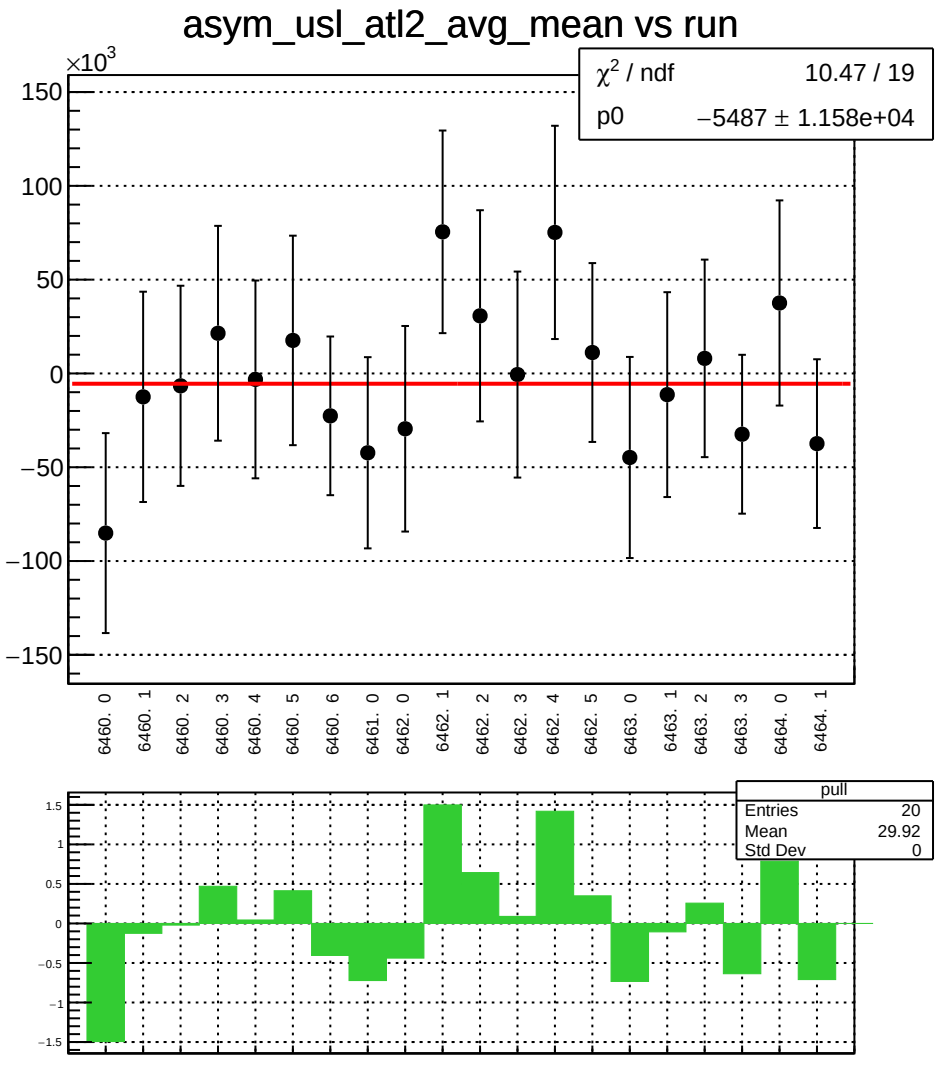

pull1D
Entries 20
Mean −0.01192
Std Dev 1.007
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

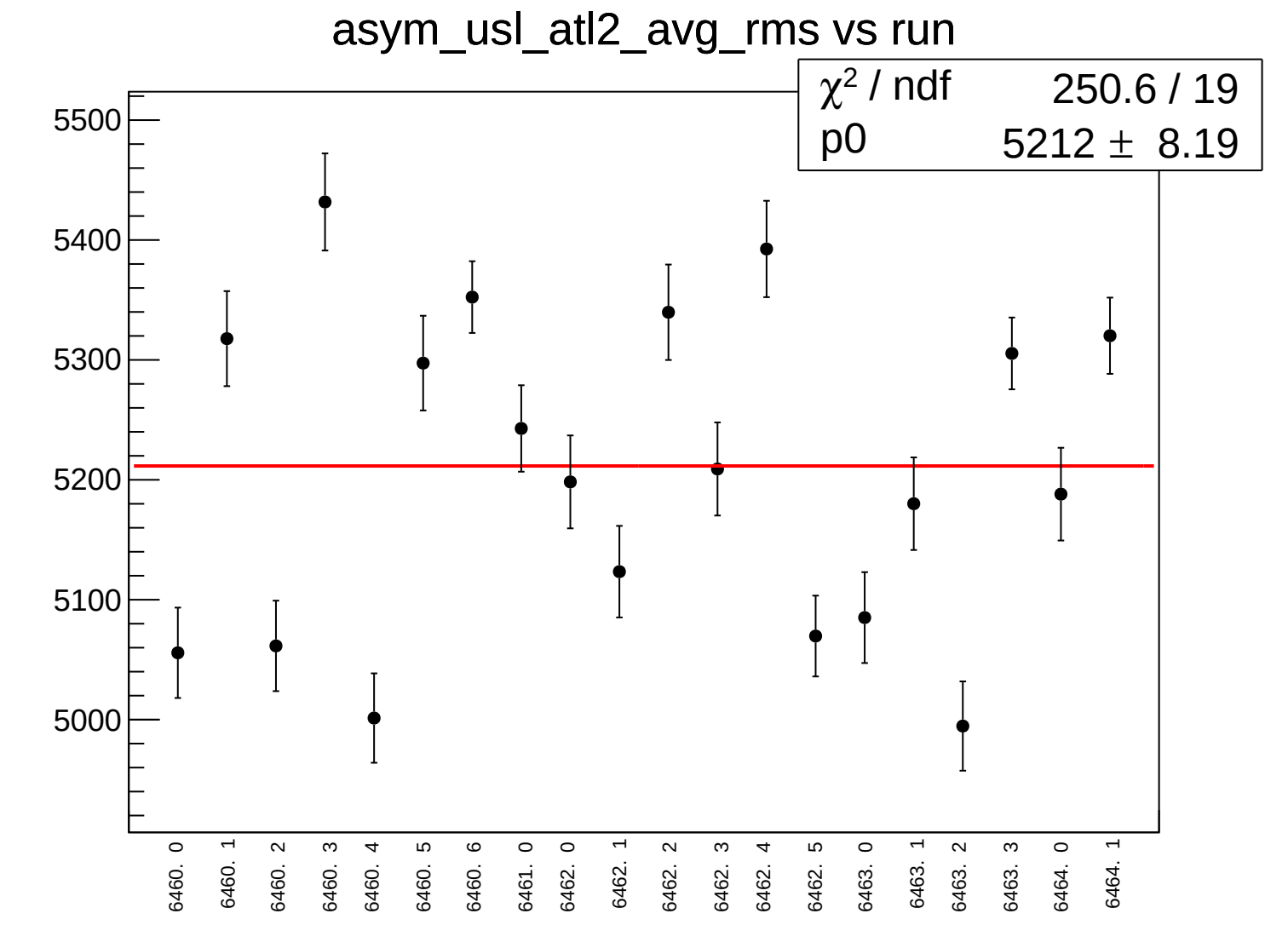

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 21.09 / 19
p0 1634 ± 2.567
1660
1650
1640
1630
1620
1610
1600
1590
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

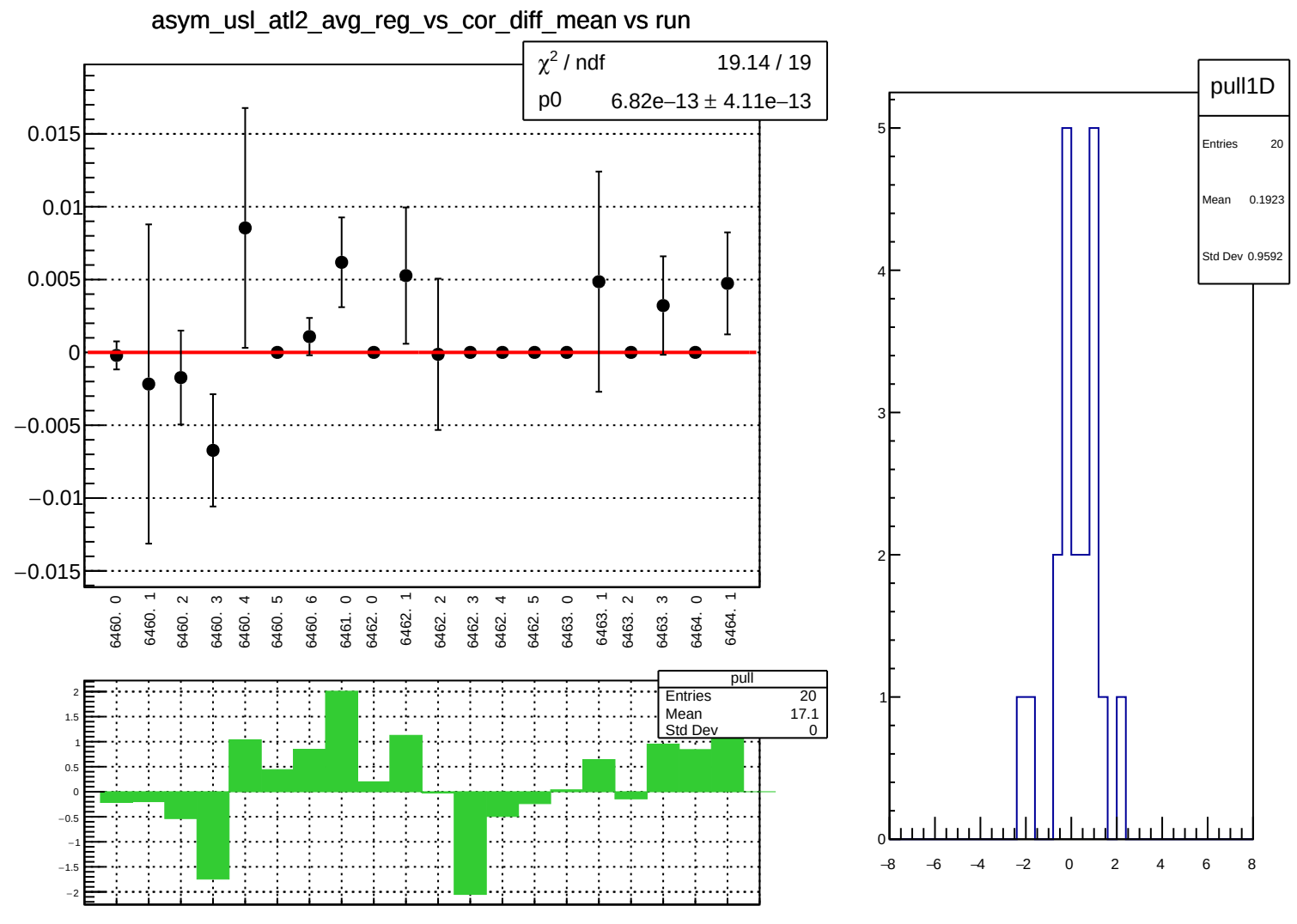

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 9.551 / 19
p0 9604 ± 1.12e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.47
Std Dev 0
1
0.5
0
−0.5
−1

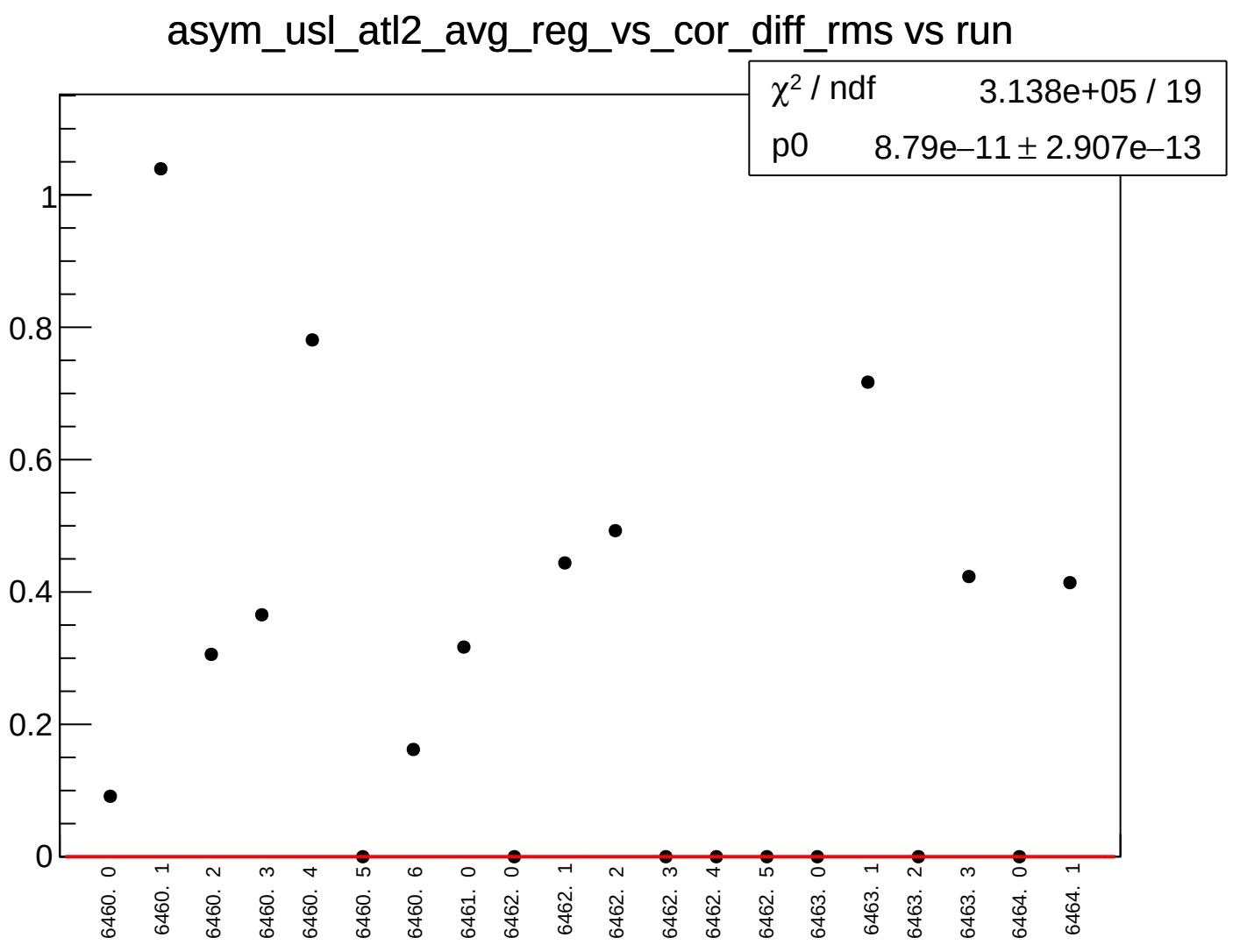

pull1D
Entries 20
Mean −0.03036
Std Dev 0.6904
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

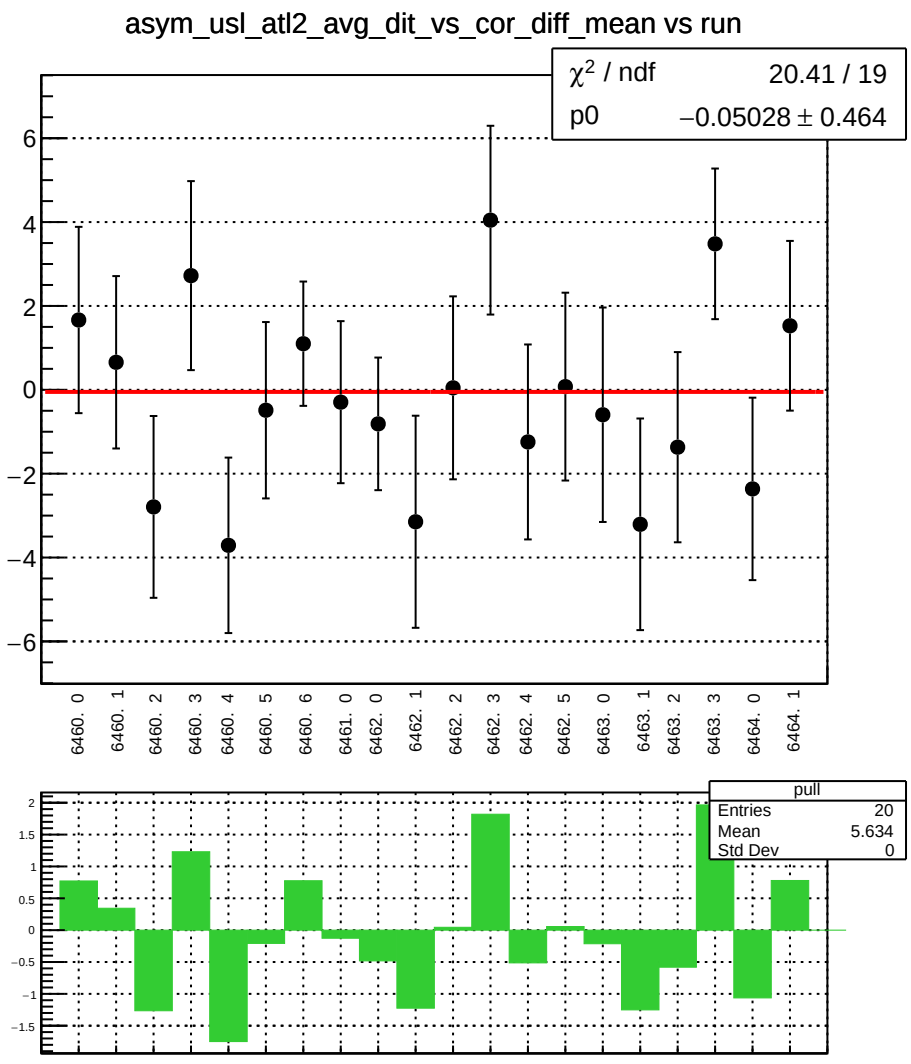

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 315.6 / 19
p0 5042 ± 7.923
5400
5300
5200
5100
5000
4900
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

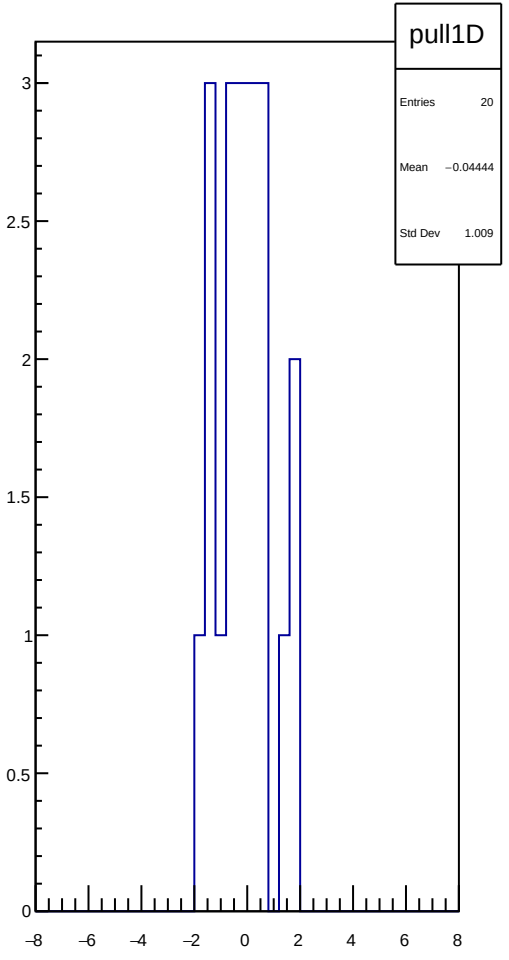

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 10.47 / 19
p0 −5487 ± 1.158e+04
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02905
Std Dev 0.7229
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

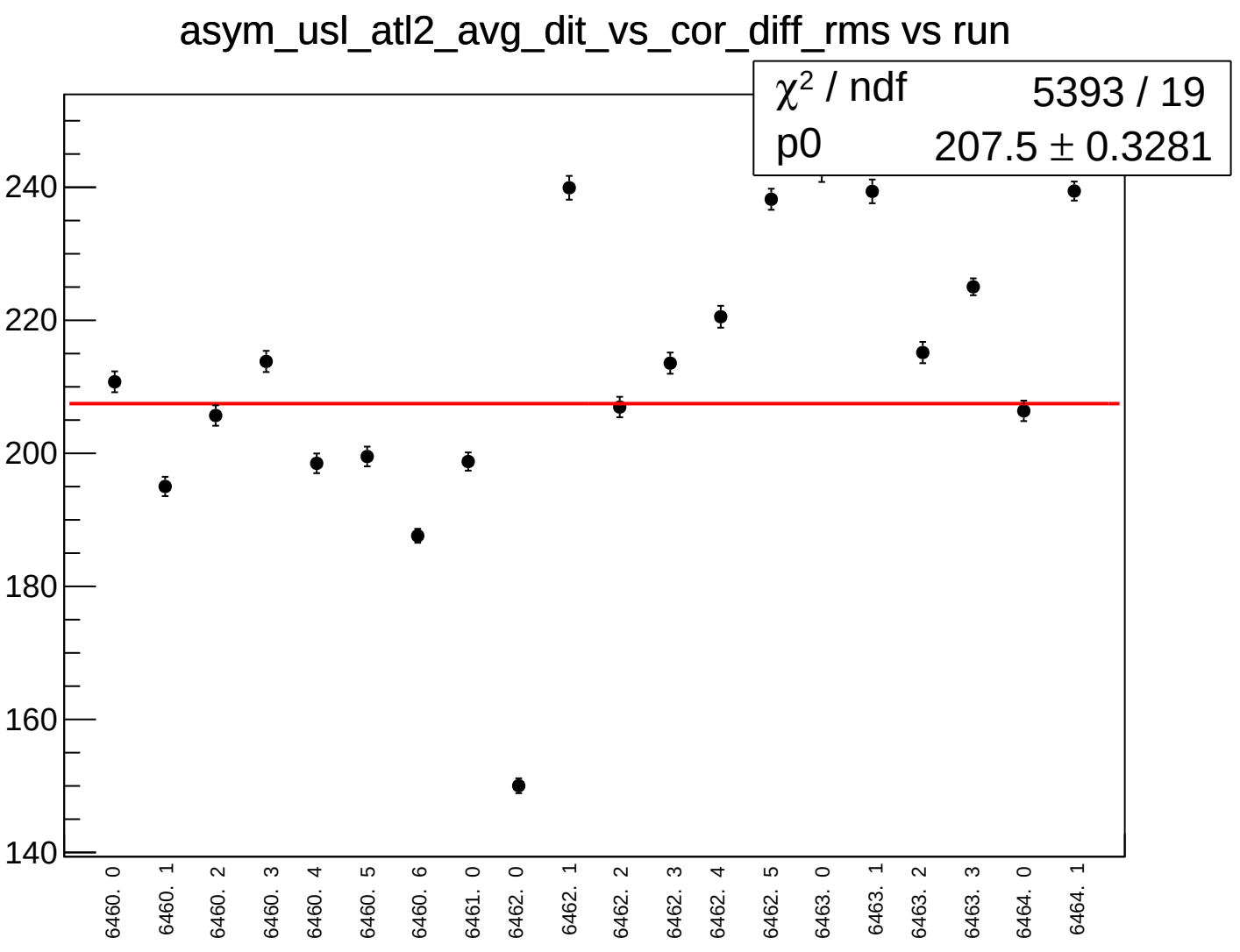

asym_usl_atl2_avg_rms vs run
χ² / ndf 250.6 / 19
p0 5212 ± 8.19
5500
5400
5300
5200
5100
5000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

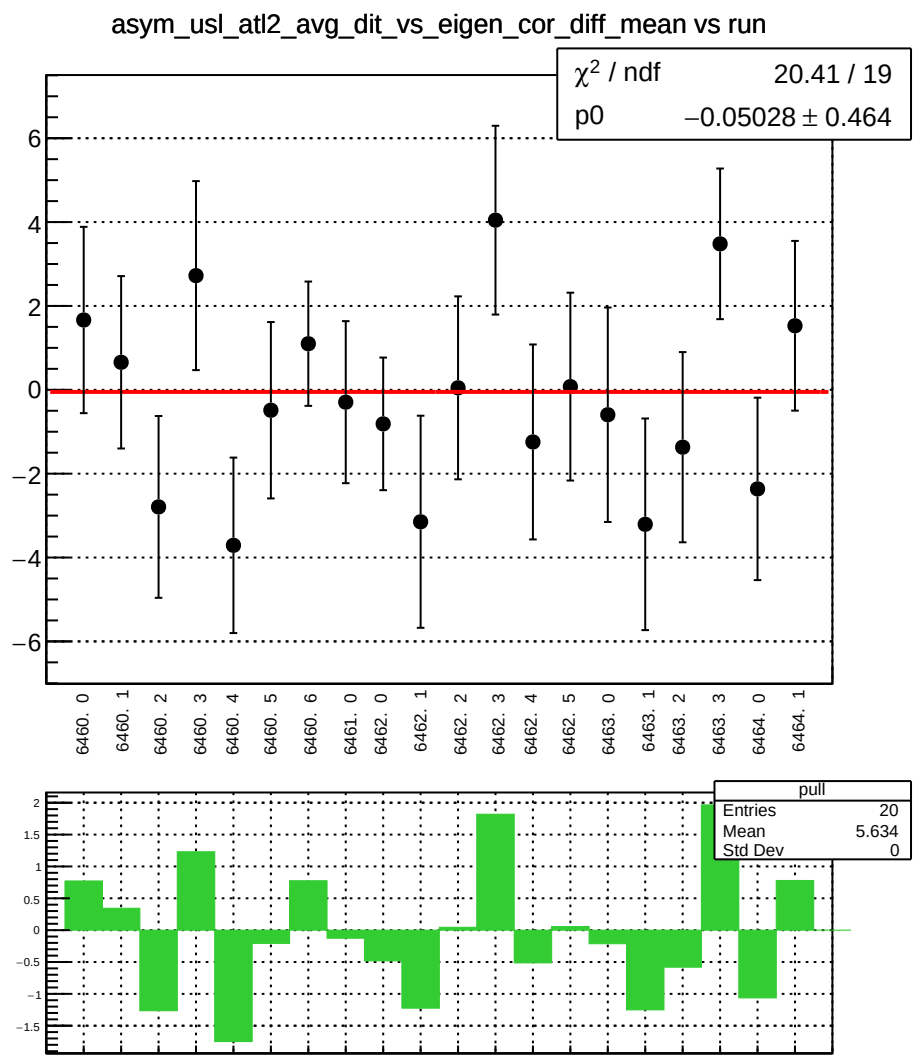

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 19.14 / 19
p0 6.82e−13 ± 4.11e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 17.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.1923
Std Dev 0.9592
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

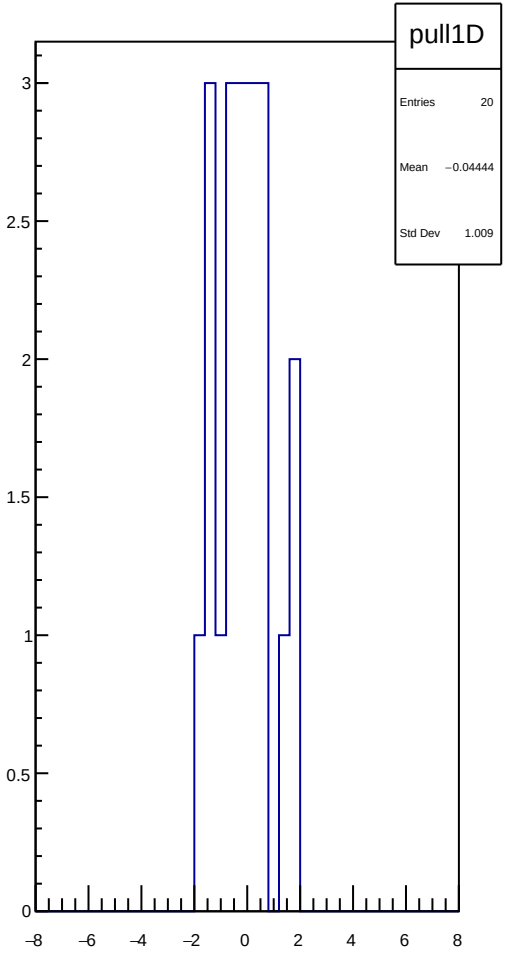

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.138e+05 / 19
p0 8.79e−11 ± 2.907e−13
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

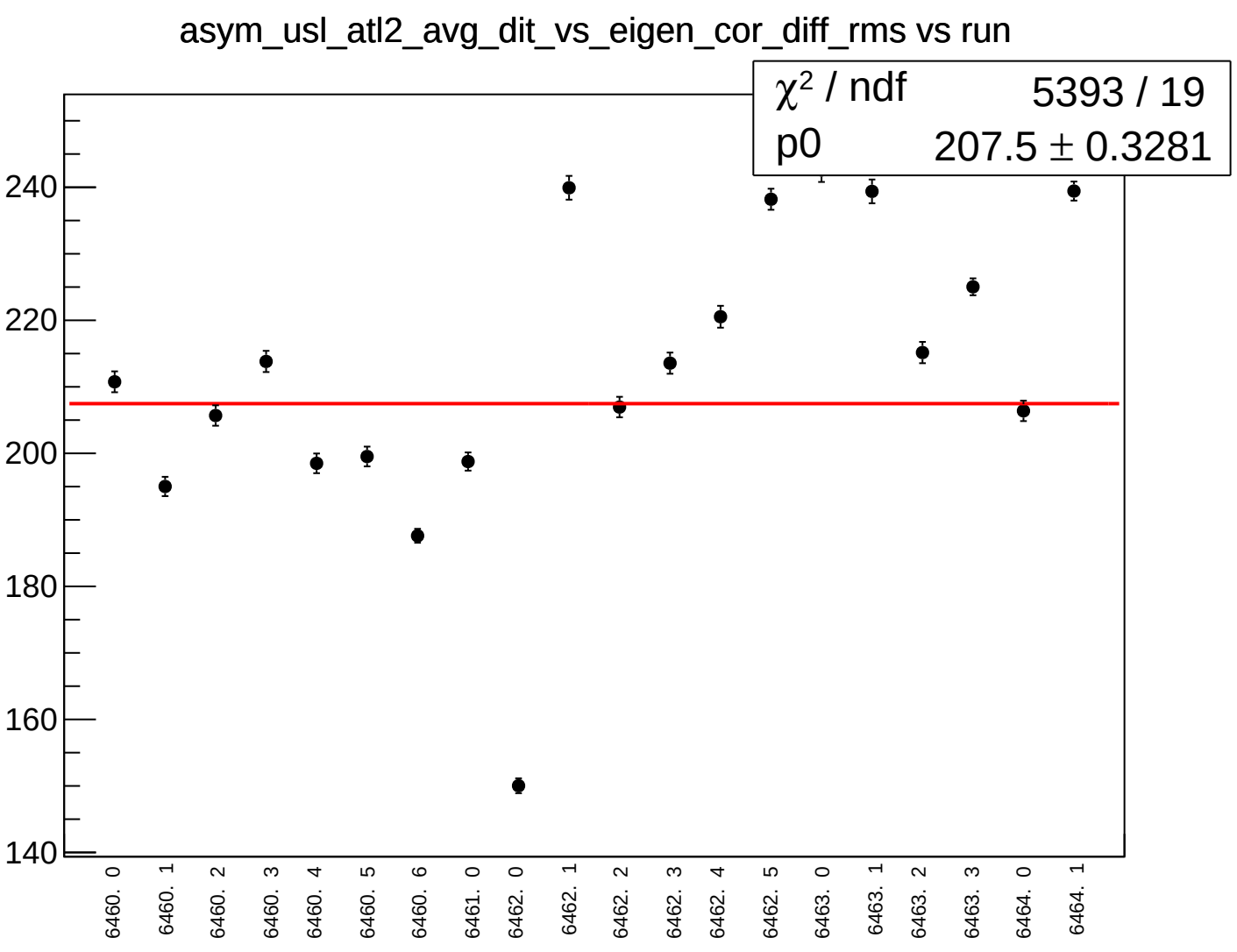

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.41 / 19
p0 −0.05028 ± 0.464
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.634
Std Dev 0

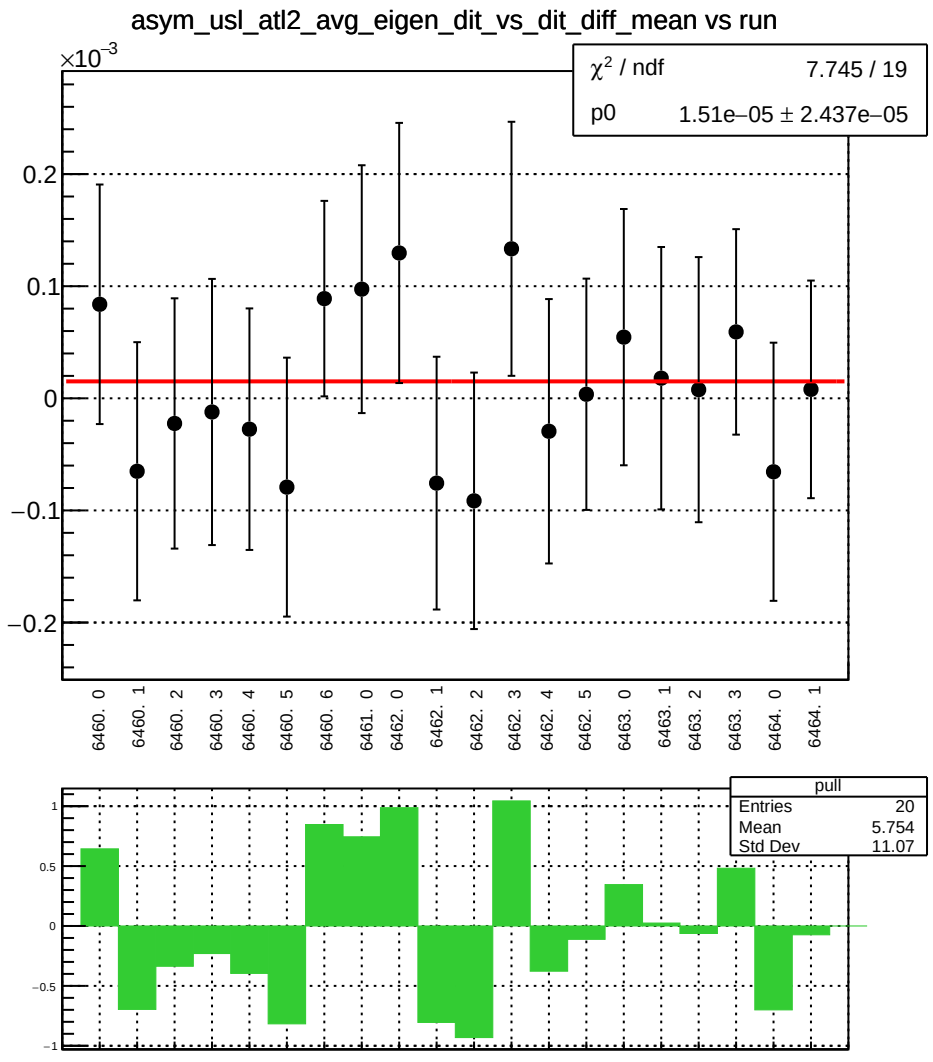

pull1D
Entries 20
Mean −0.04444
Std Dev 1.009

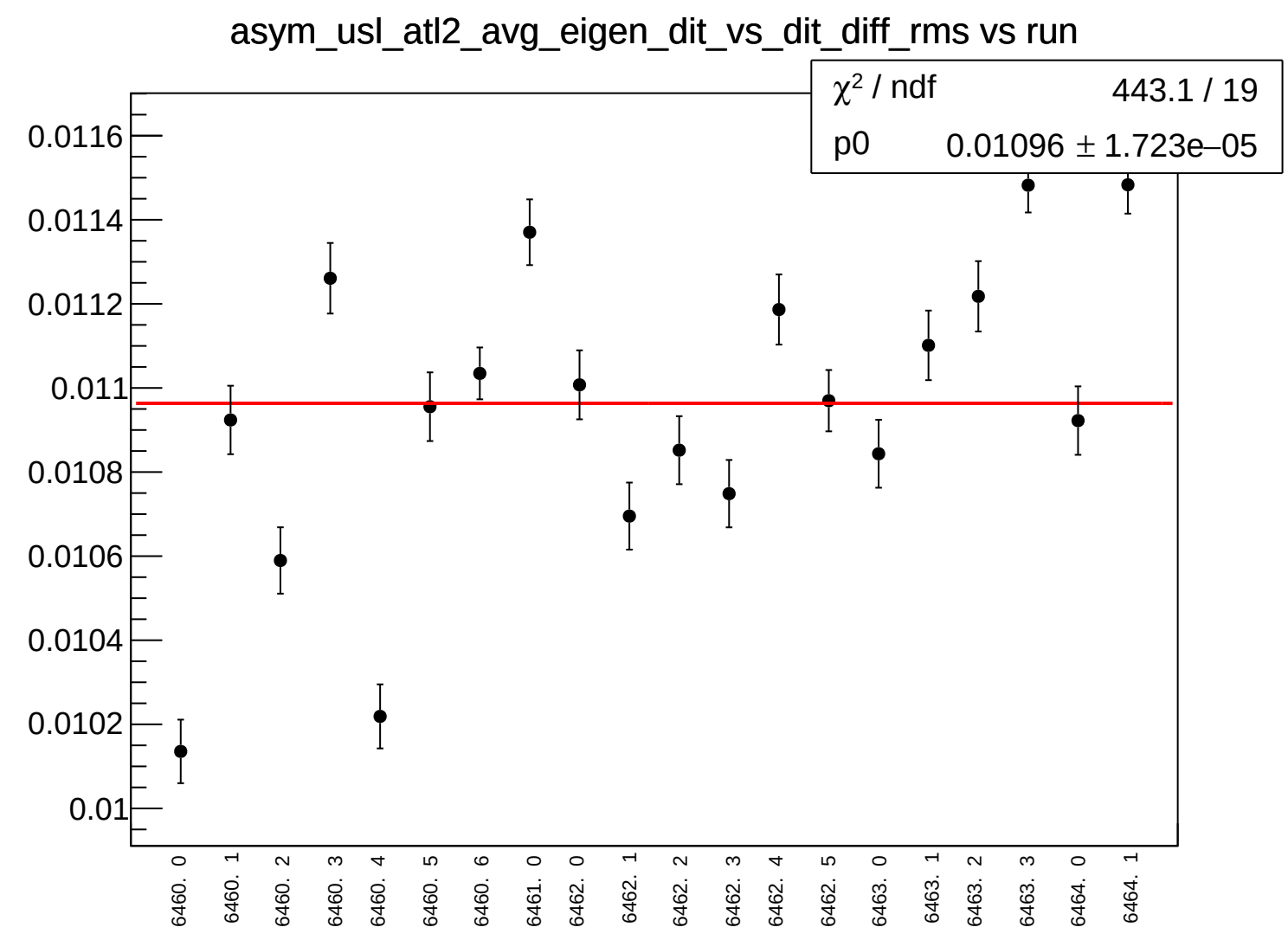

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5393 / 19
p0 207.5 ± 0.3281
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

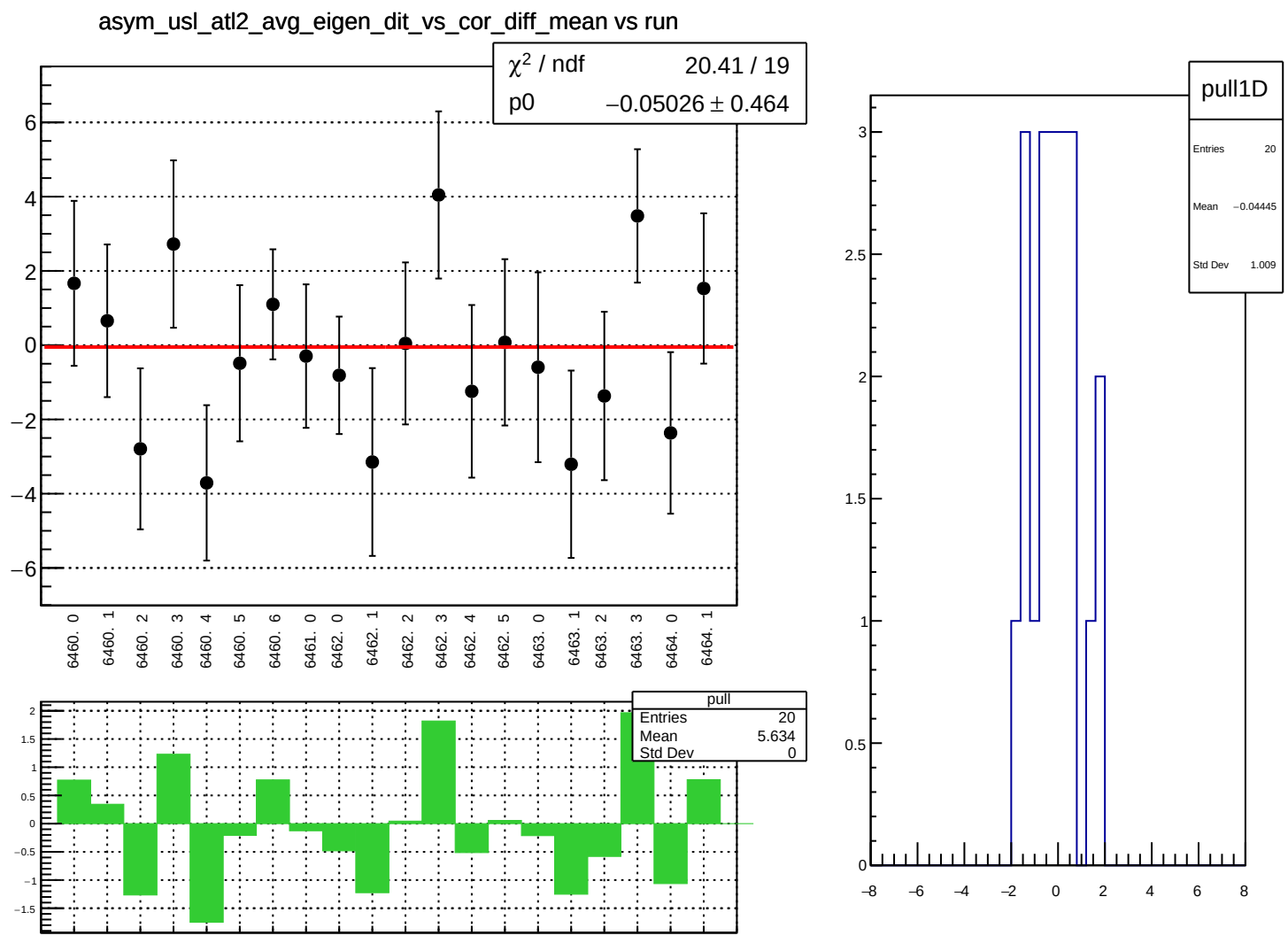

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.41 / 19
p0 −0.05028 ± 0.464
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.634
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

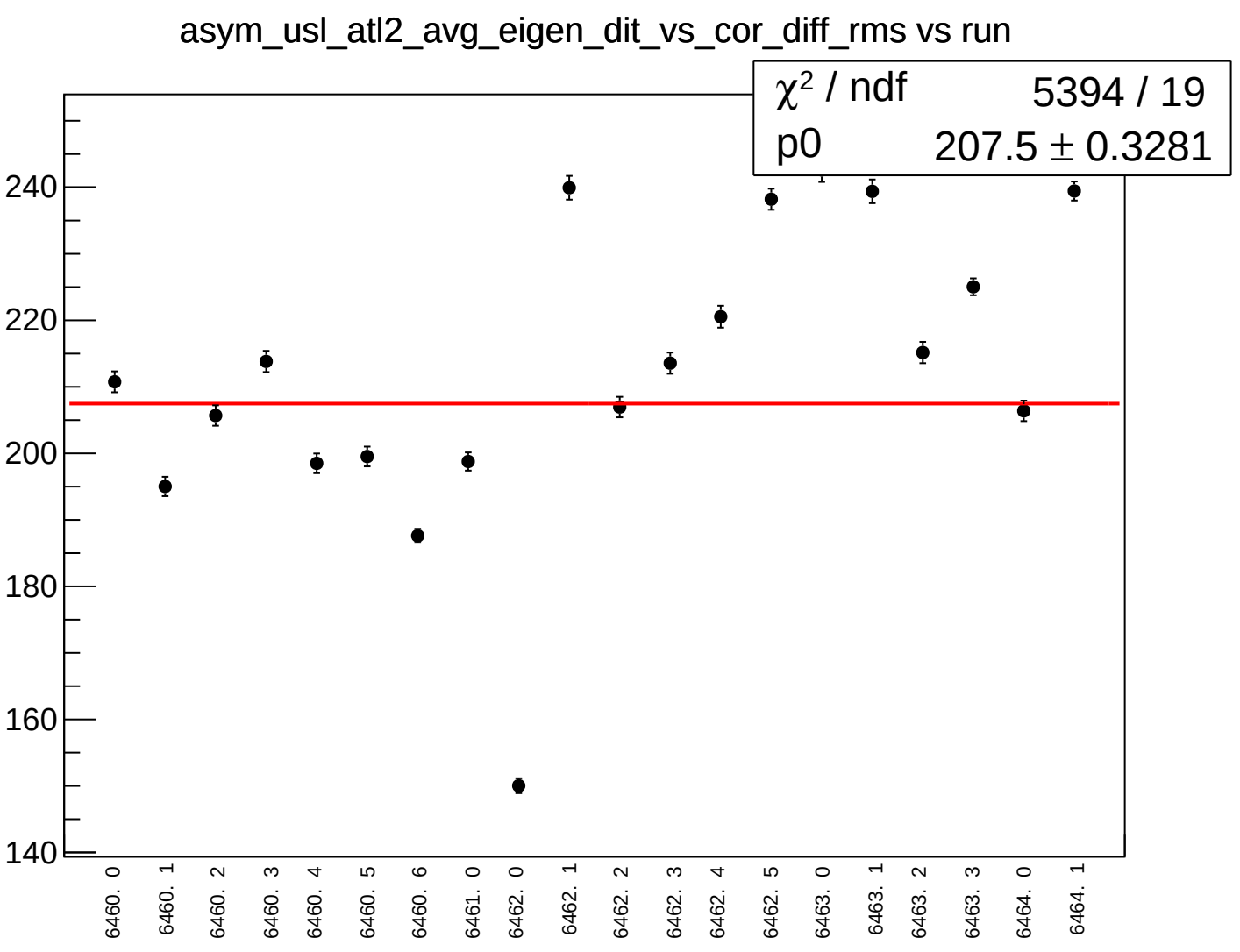

pull1D
Entries 20
Mean −0.04444
Std Dev 1.009
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

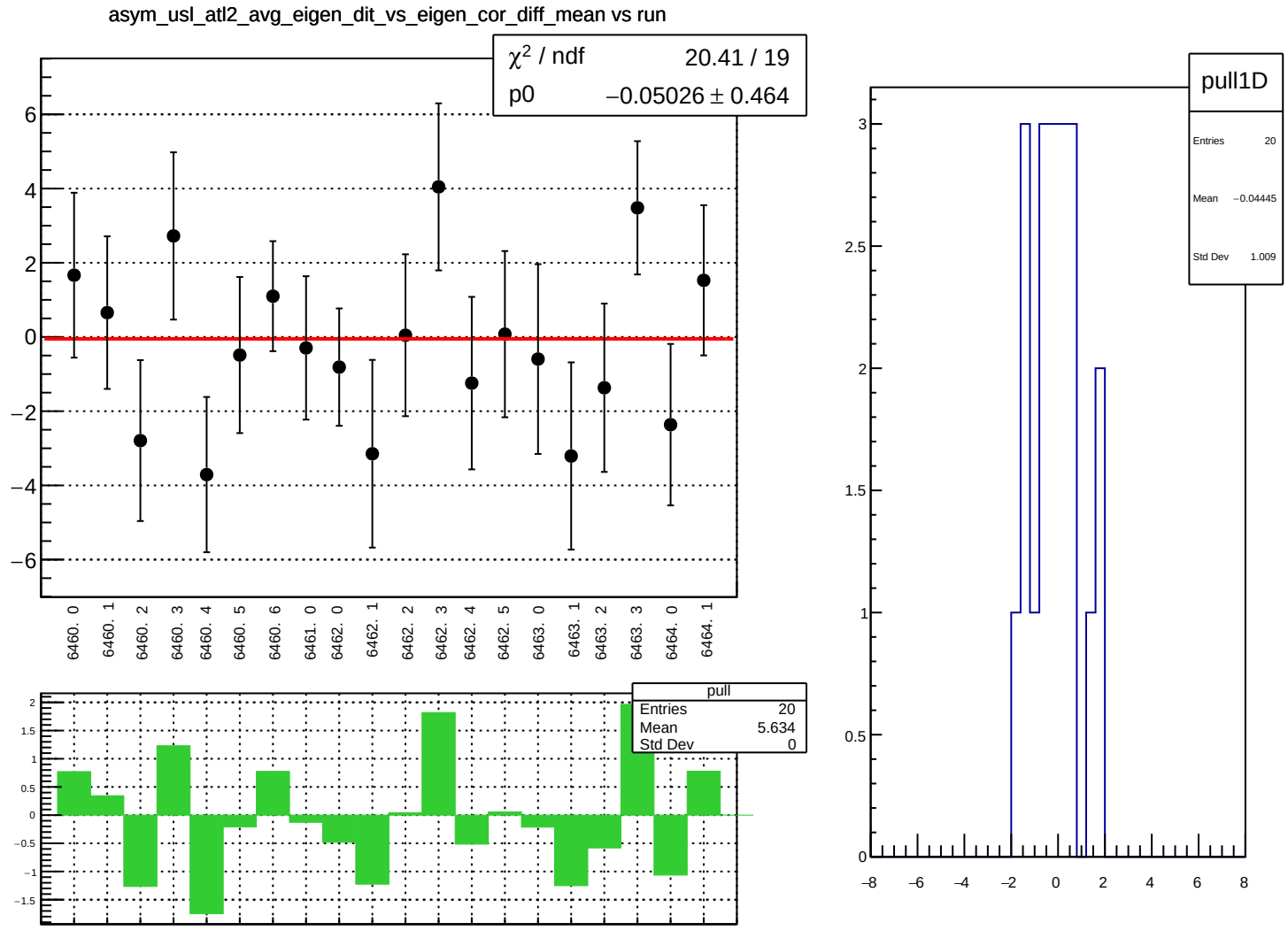

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5393 / 19
p0 207.5 ± 0.3281
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

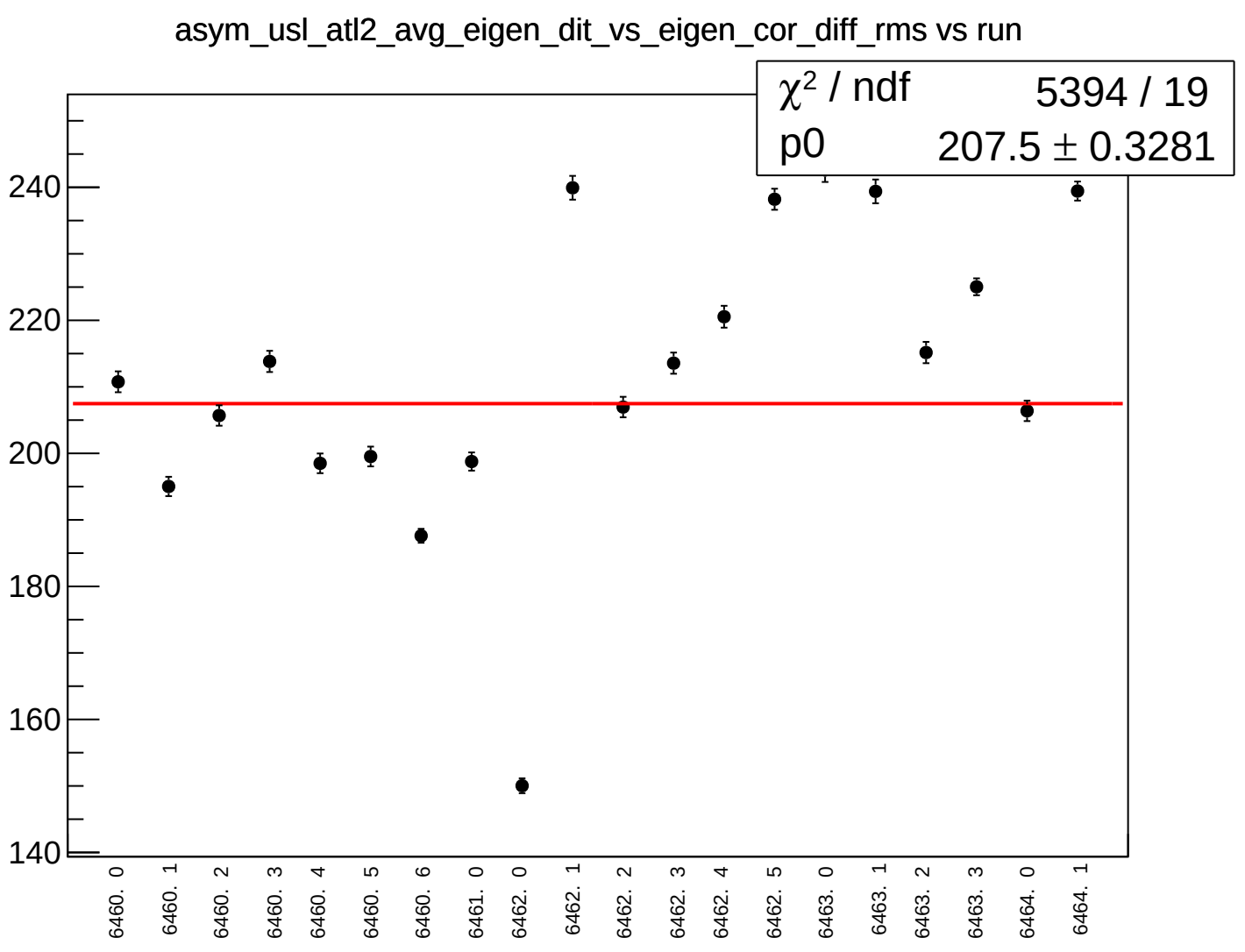

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 7.745 / 19
p0 1.51e−05 ± 2.437e−05
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.754
Std Dev 11.07
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02098
Std Dev 0.6219
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

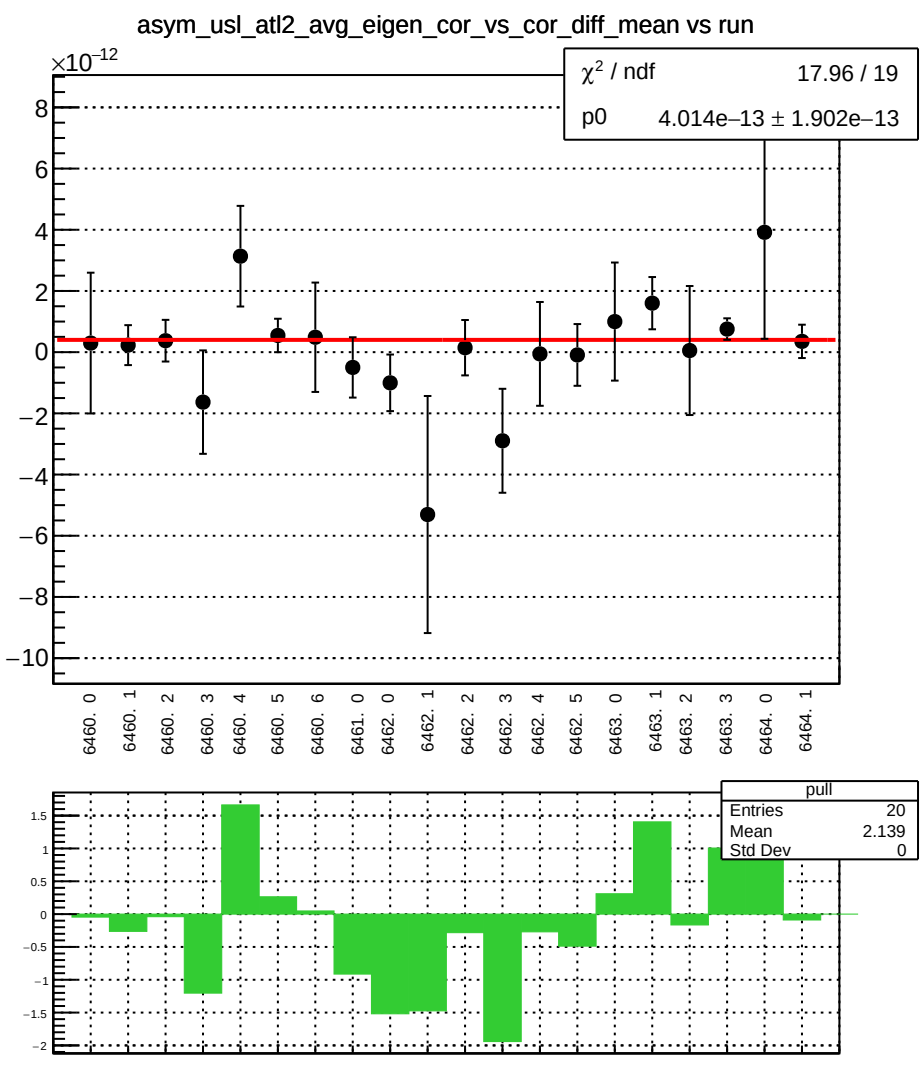

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 443.1 / 19
p0 0.01096 ± 1.723e–05
0.0116
0.0114
0.0112
0.011
0.0108
0.0106
0.0104
0.0102
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

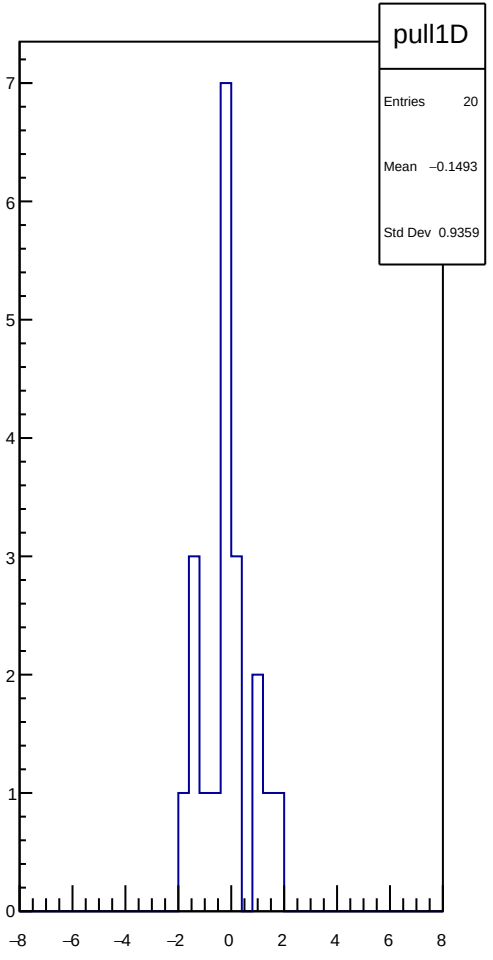

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.41 / 19
p0 −0.05026 ± 0.464
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.634
Std Dev 0
pull1D
Entries 20
Mean −0.04445
Std Dev 1.009

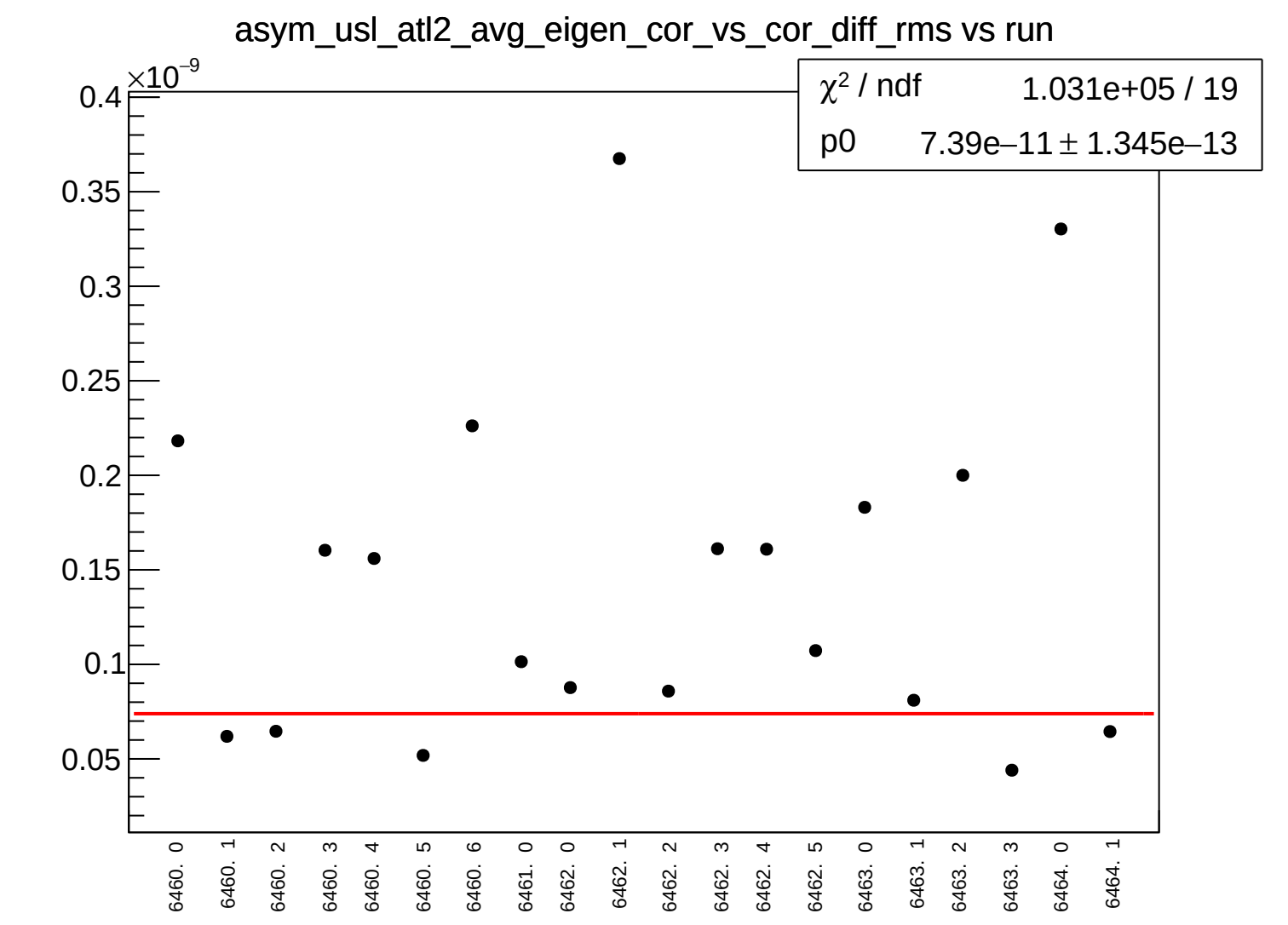

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5394 / 19
p0 207.5 ± 0.3281
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

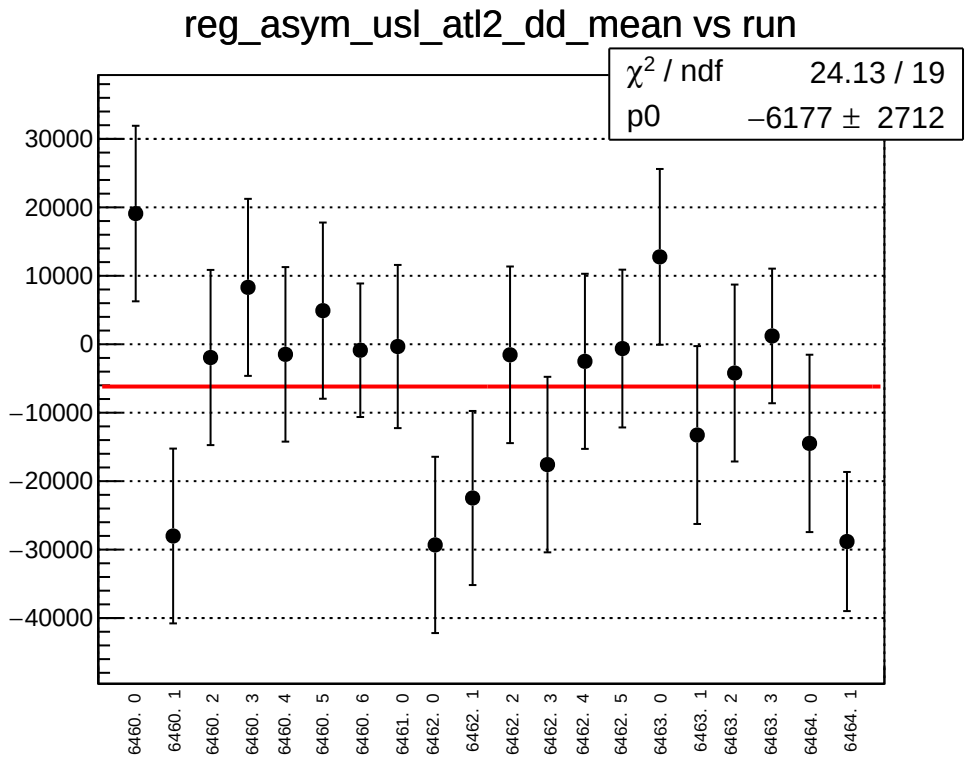

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.41 / 19
p0 −0.05026 ± 0.464
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.634
Std Dev 0
pull1D
Entries 20
Mean −0.04445
Std Dev 1.009

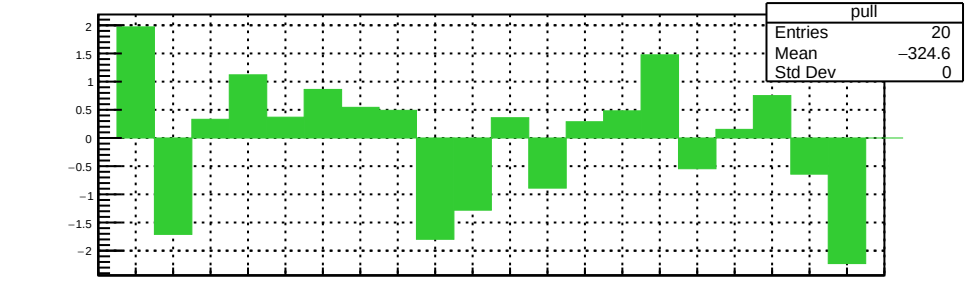

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5394 / 19
p0 207.5 ± 0.3281
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

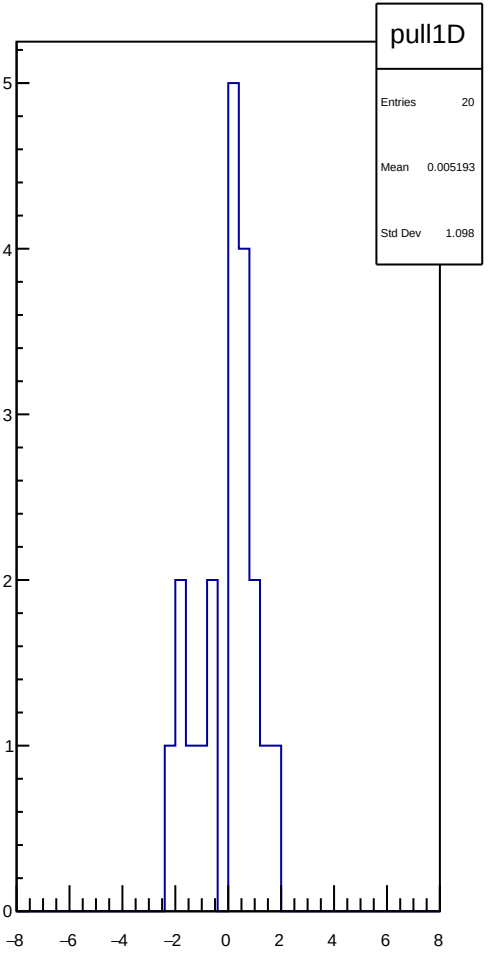

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.96 / 19
p0 4.014e−13 ± 1.902e−13
8
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.139
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

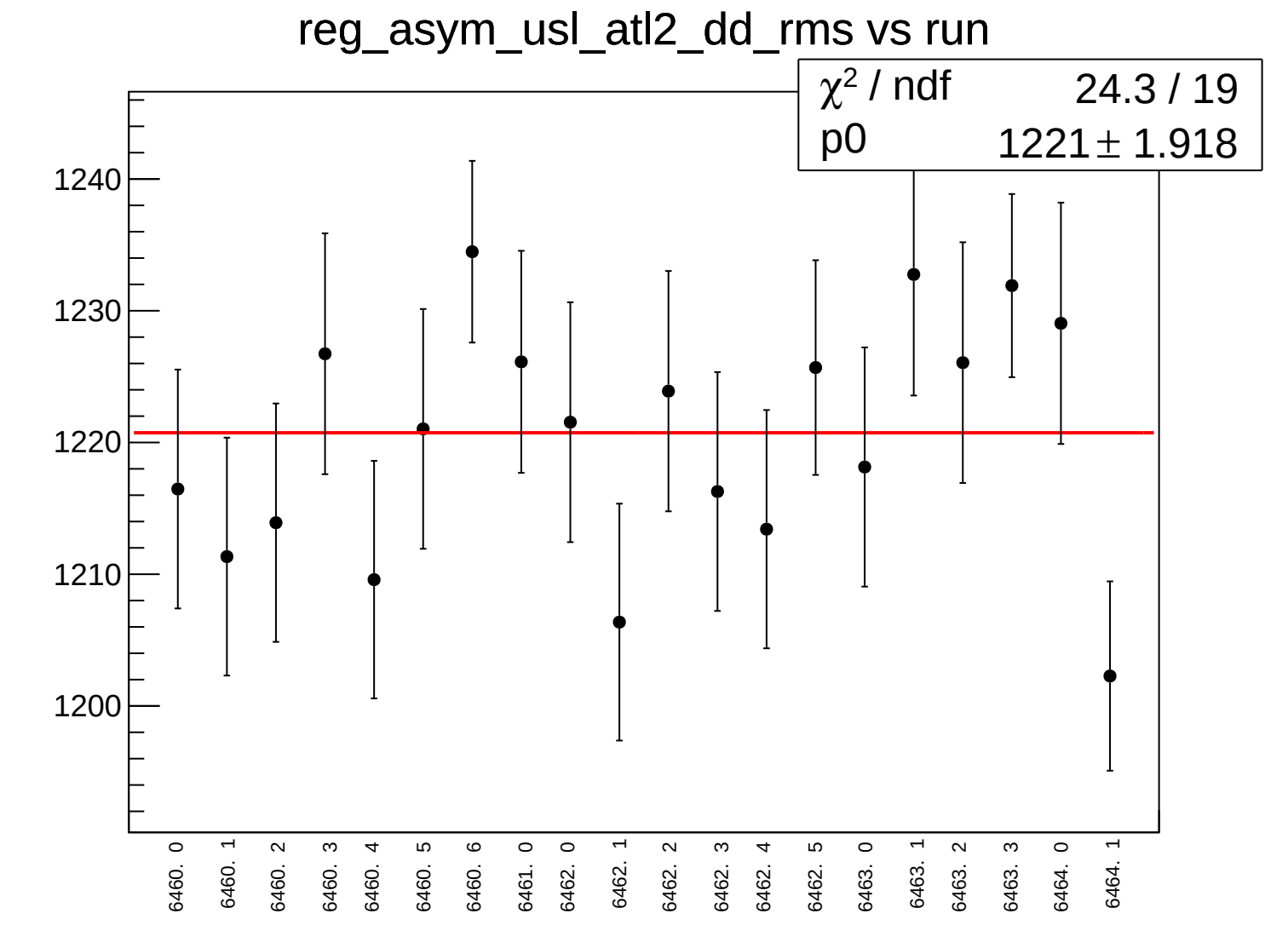

pull1D
Entries 20
Mean −0.1493
Std Dev 0.9359
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

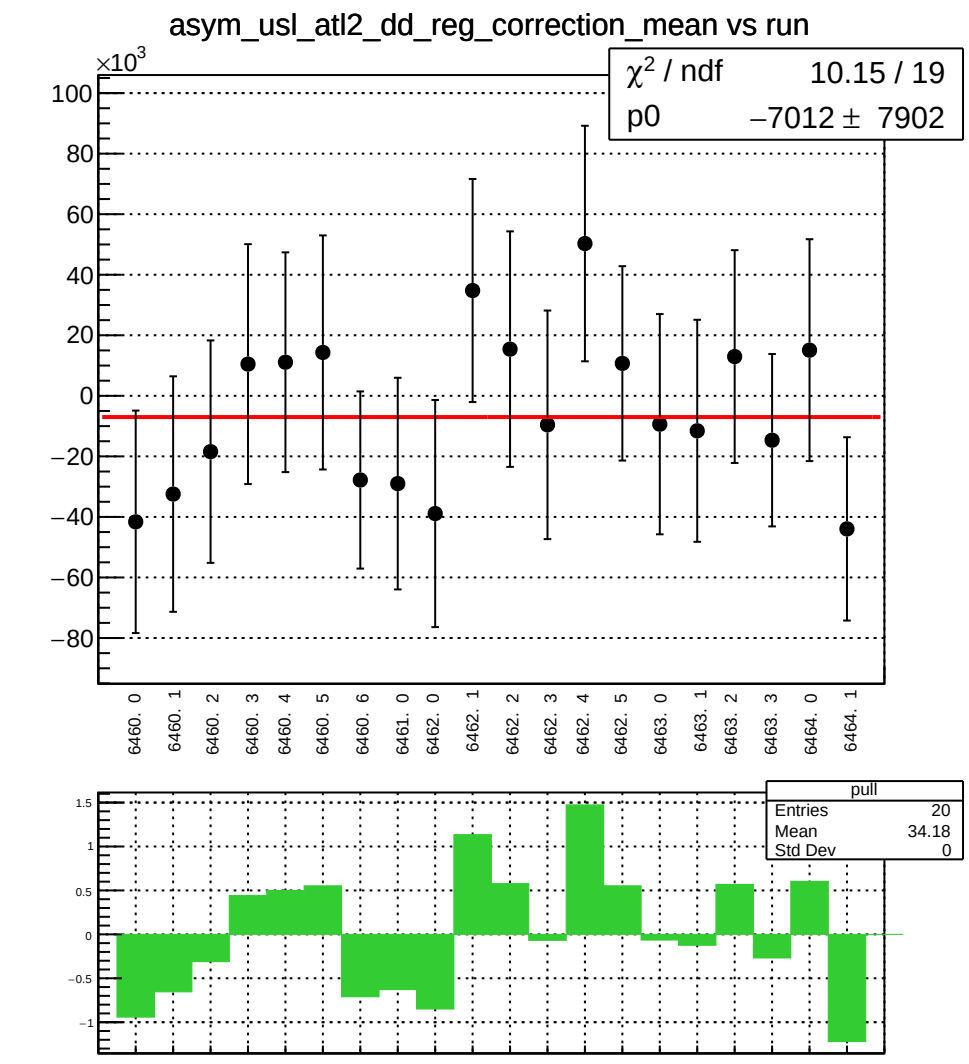

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.031e+05 / 19
p0 7.39e−11 ± 1.345e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

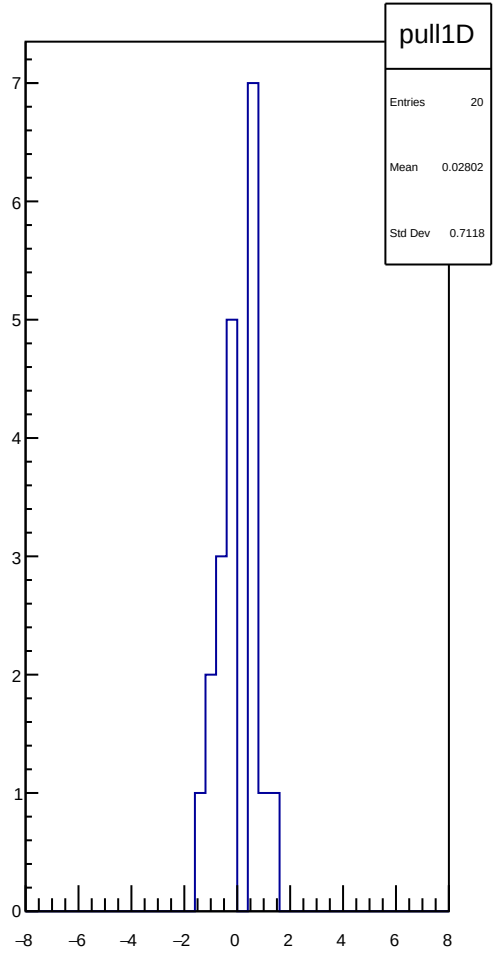

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 24.13 / 19
p0 −6177 ± 2712
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

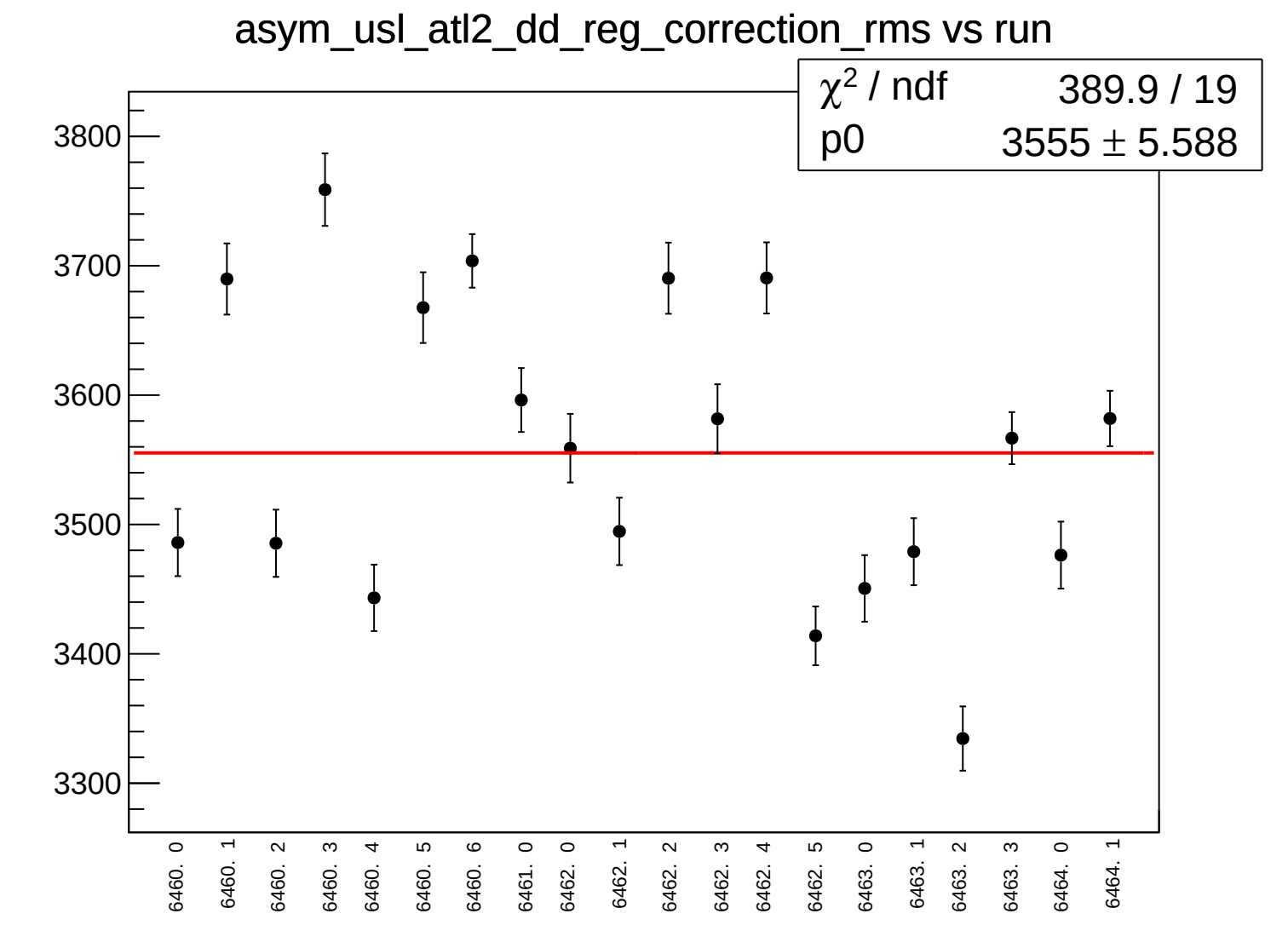

pull
Entries 20
Mean −324.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

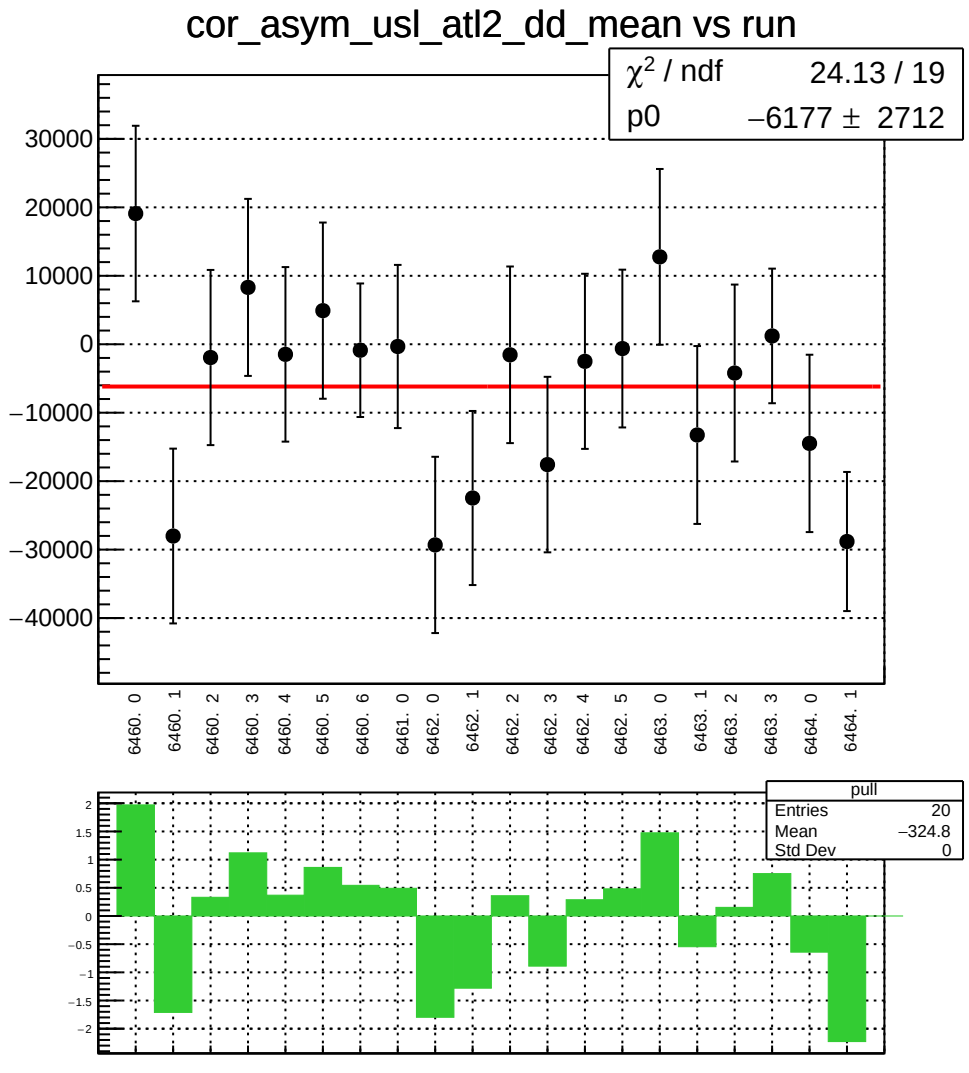

pull1D
Entries 20
Mean 0.005193
Std Dev 1.098
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

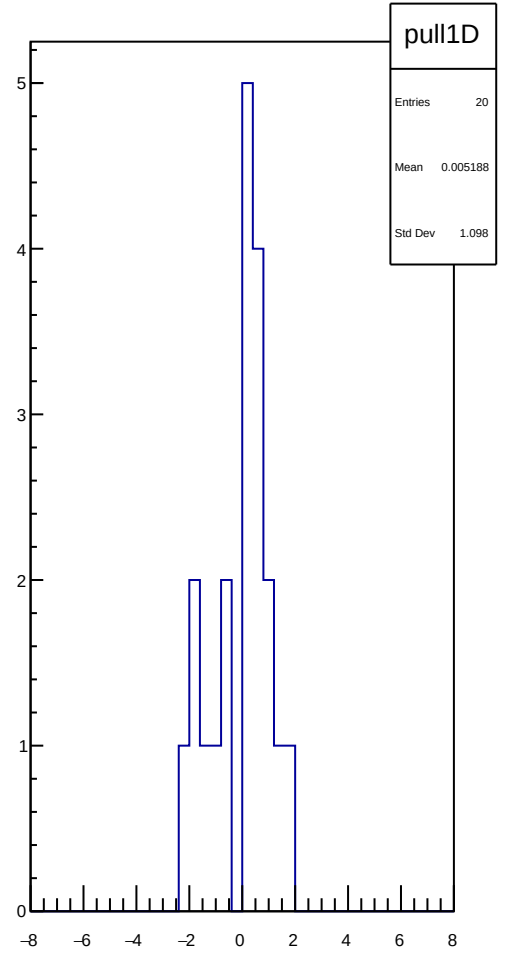

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 24.3 / 19
p0 1221 ± 1.918
1240
1230
1220
1210
1200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

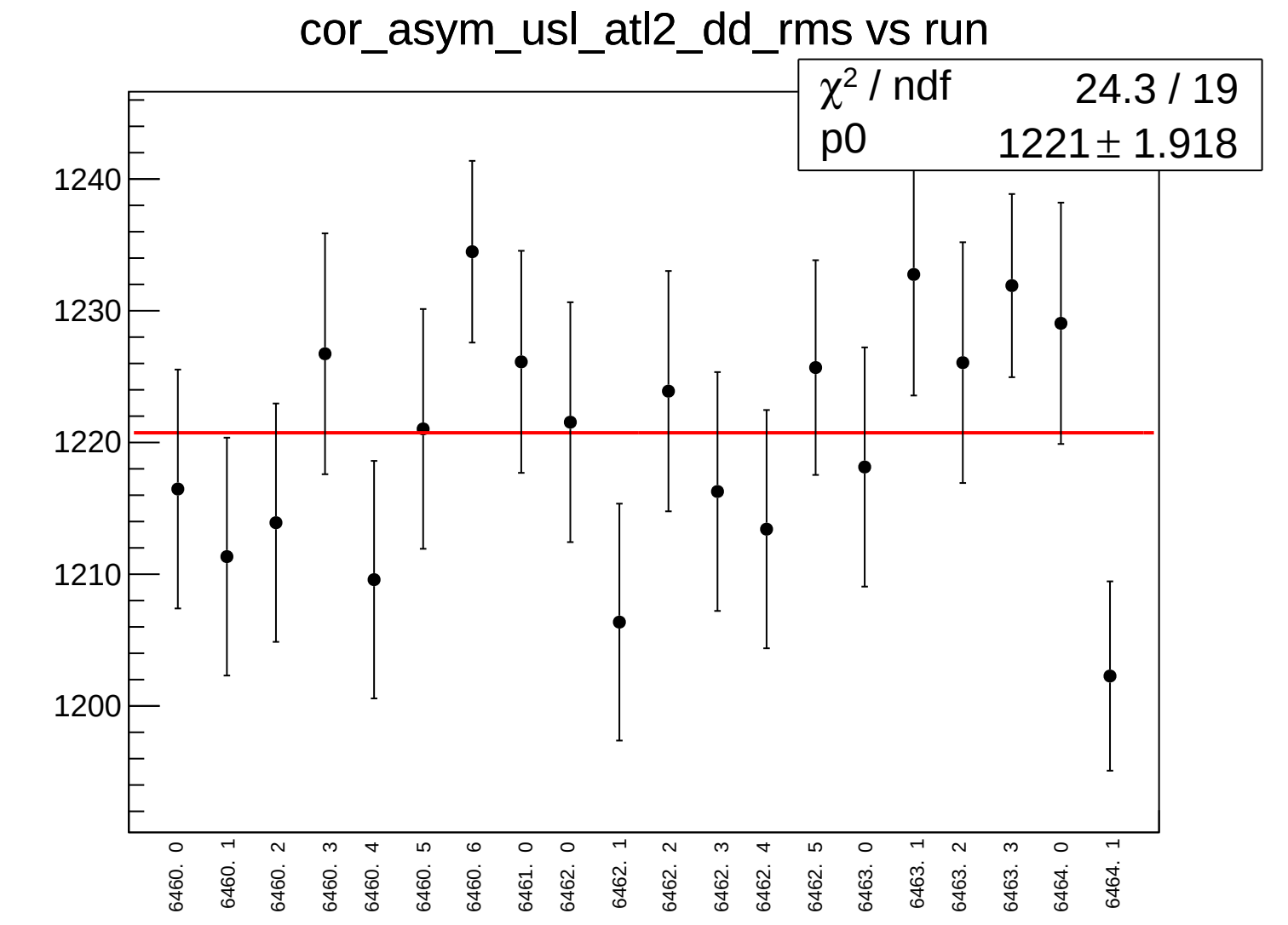

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 10.15 / 19
p0 −7012 ± 7902
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1

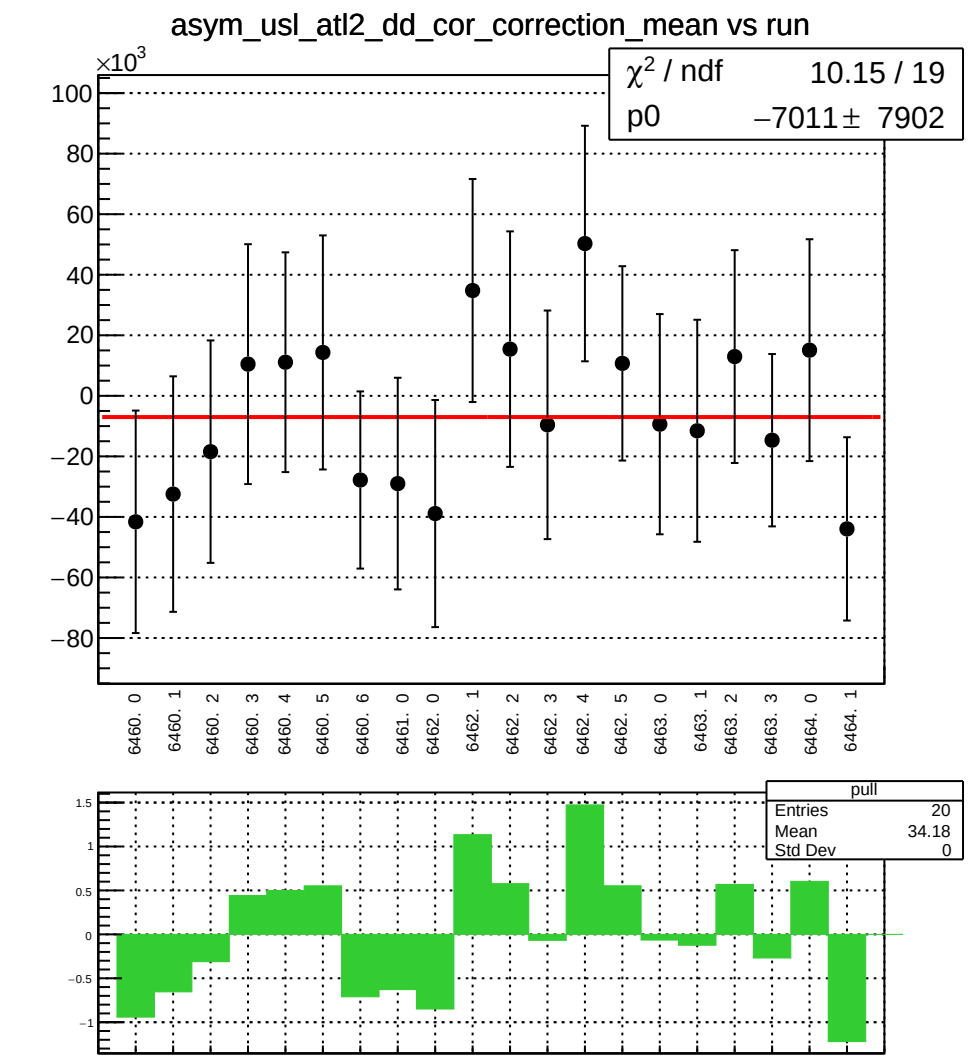

pull1D
Entries 20
Mean 0.02802
Std Dev 0.7118
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

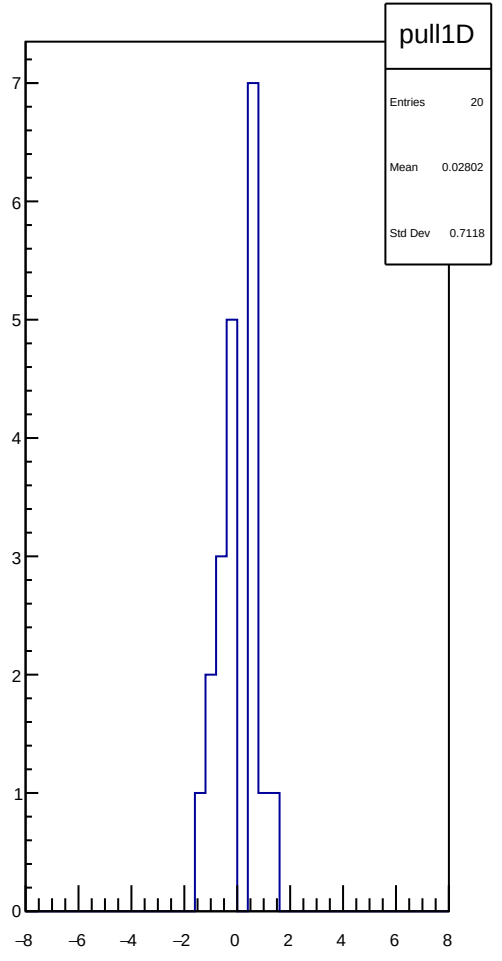

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 389.9 / 19
p0 3555 ± 5.588
3800
3700
3600
3500
3400
3300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

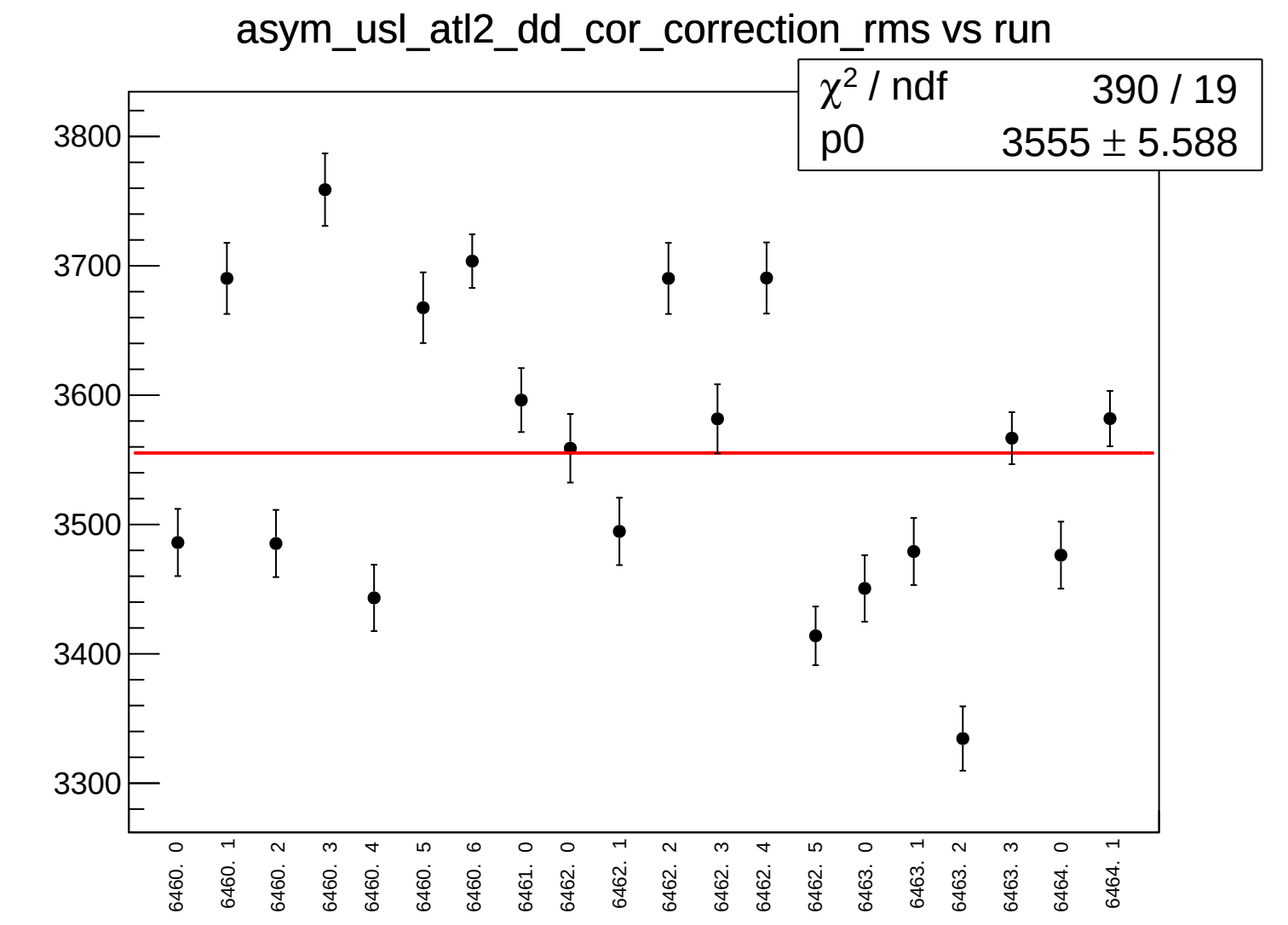

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 24.13 / 19
p0 −6177 ± 2712
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −324.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

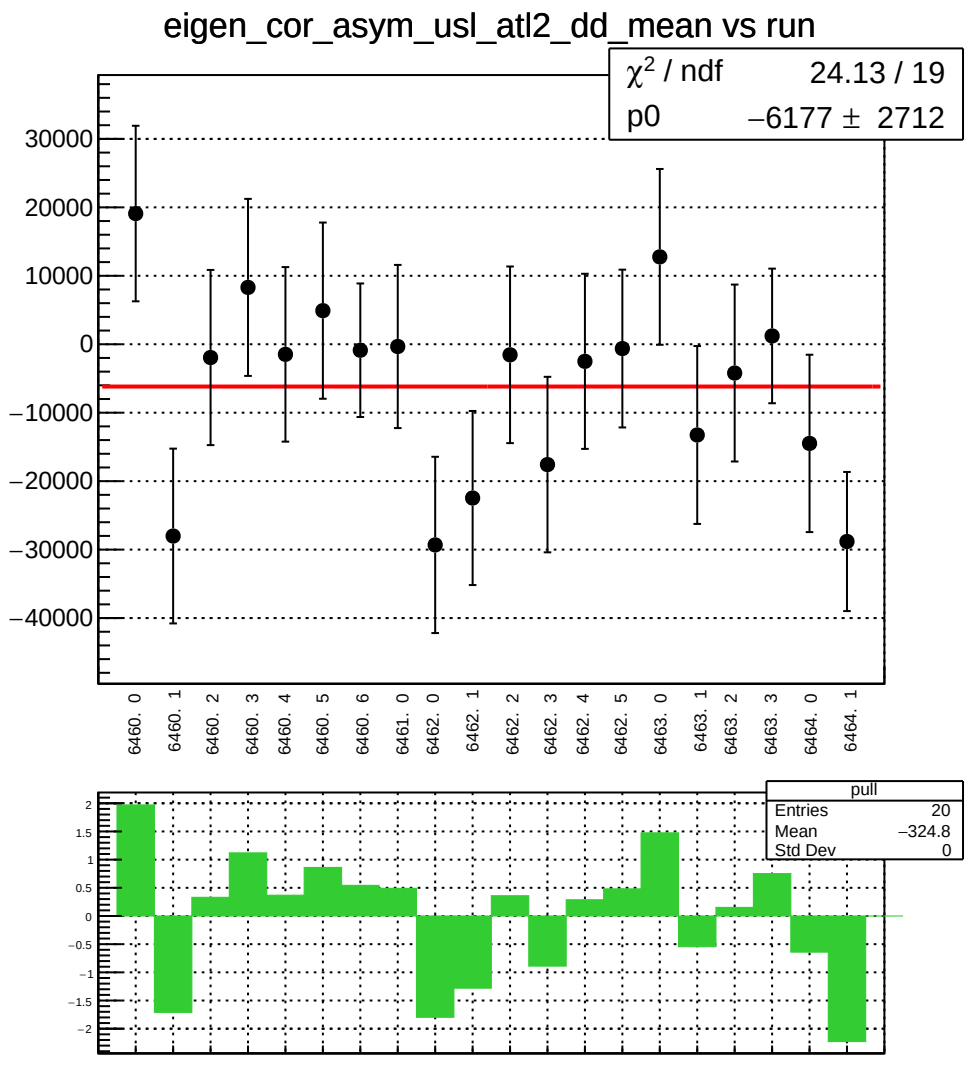

pull1D
Entries 20
Mean 0.005188
Std Dev 1.098
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

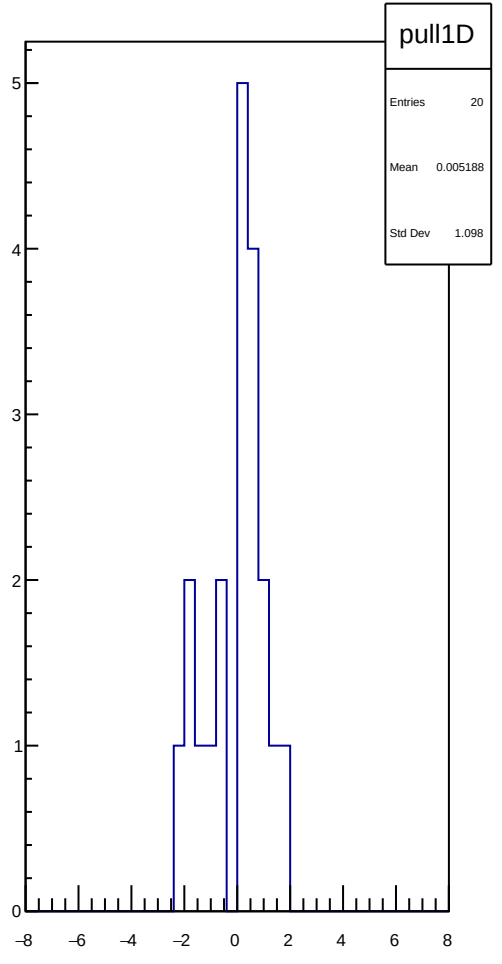

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 24.3 / 19
p0 1221 ± 1.918
1240
1230
1220
1210
1200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

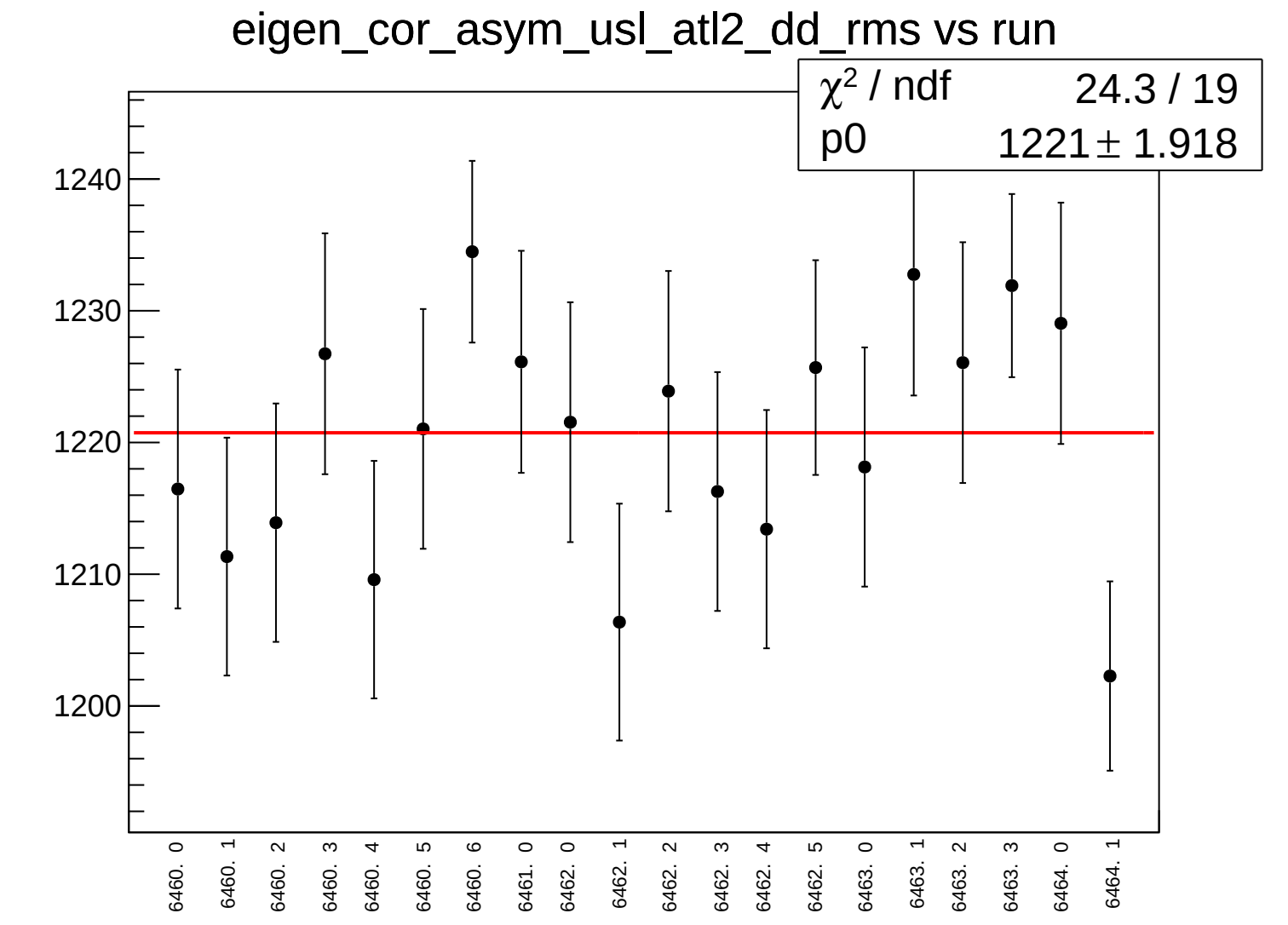

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 10.15 / 19
p0 −7011 ± 7902
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1

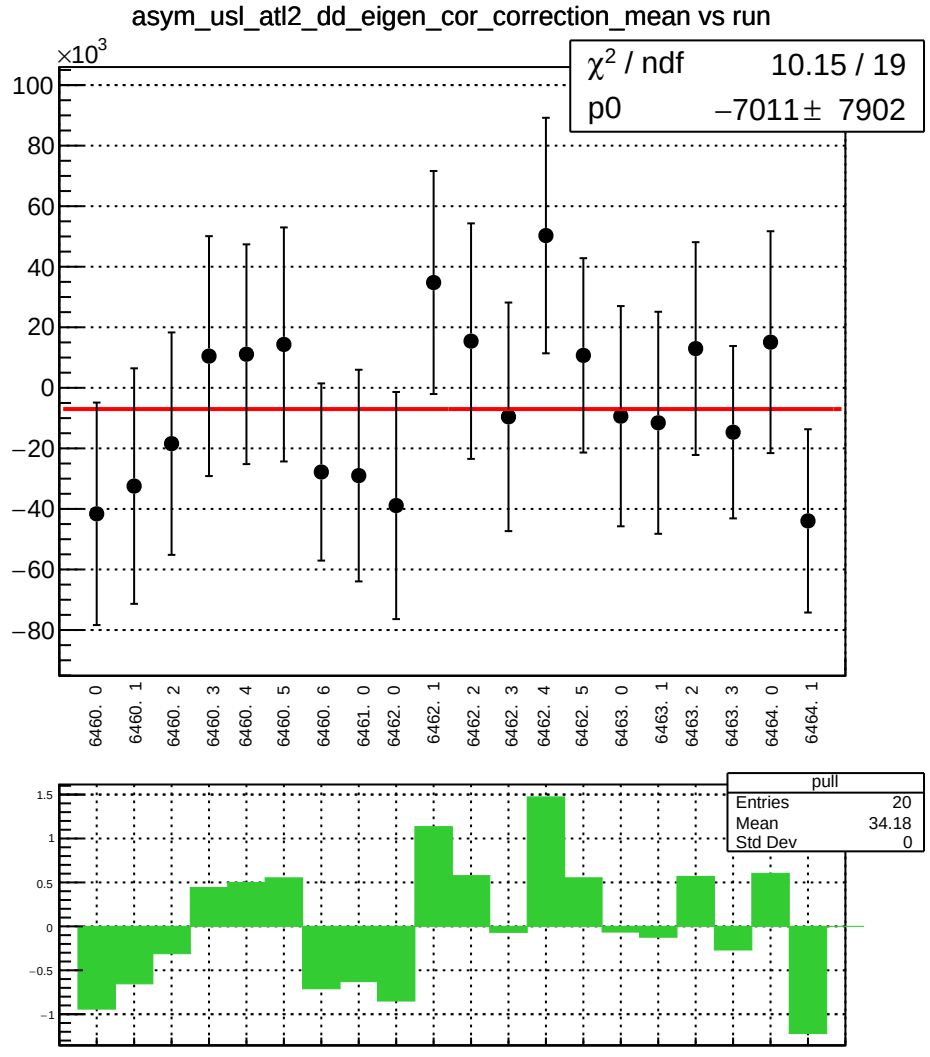

pull1D
Entries 20
Mean 0.02802
Std Dev 0.7118
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

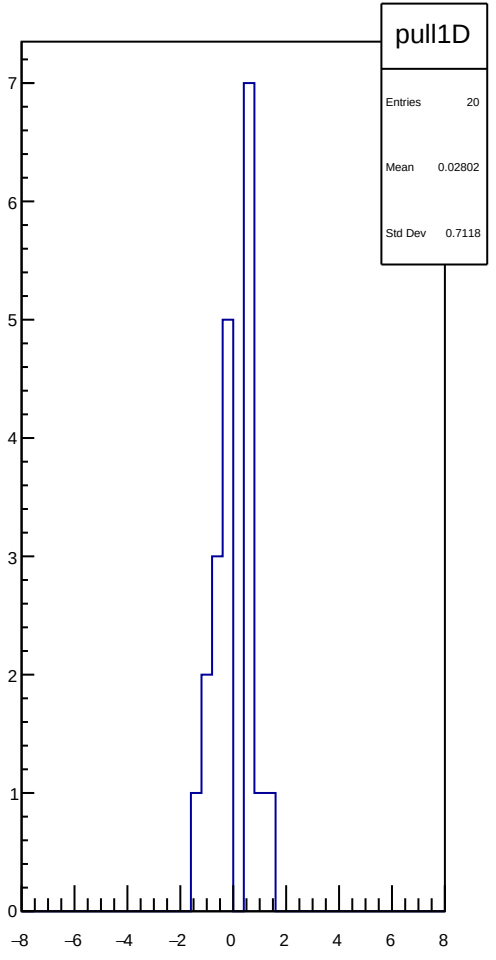

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 390 / 19
p0 3555 ± 5.588
3800
3700
3600
3500
3400
3300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

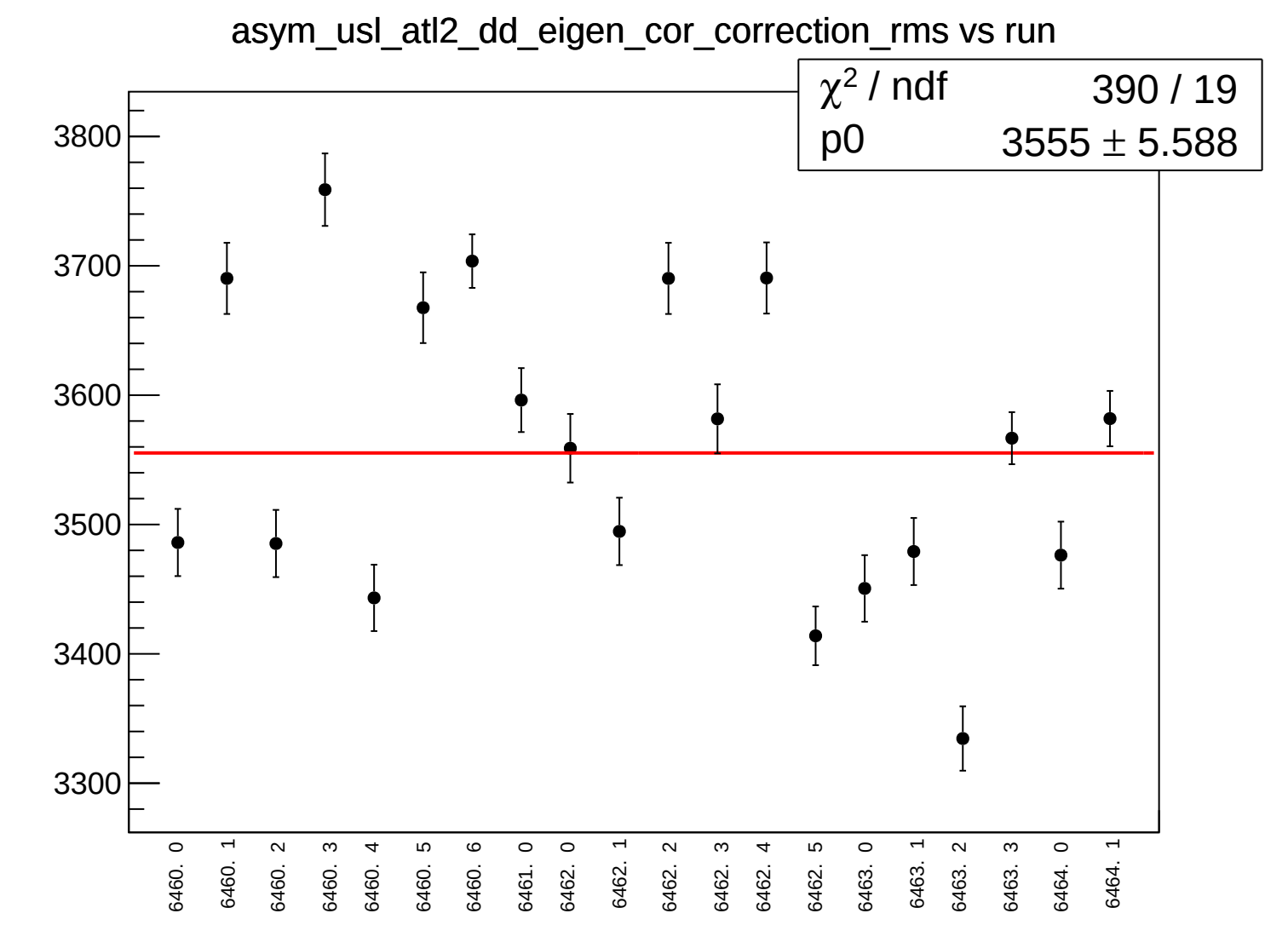

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 24.13 / 19
p0 −6177 ± 2712
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −324.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

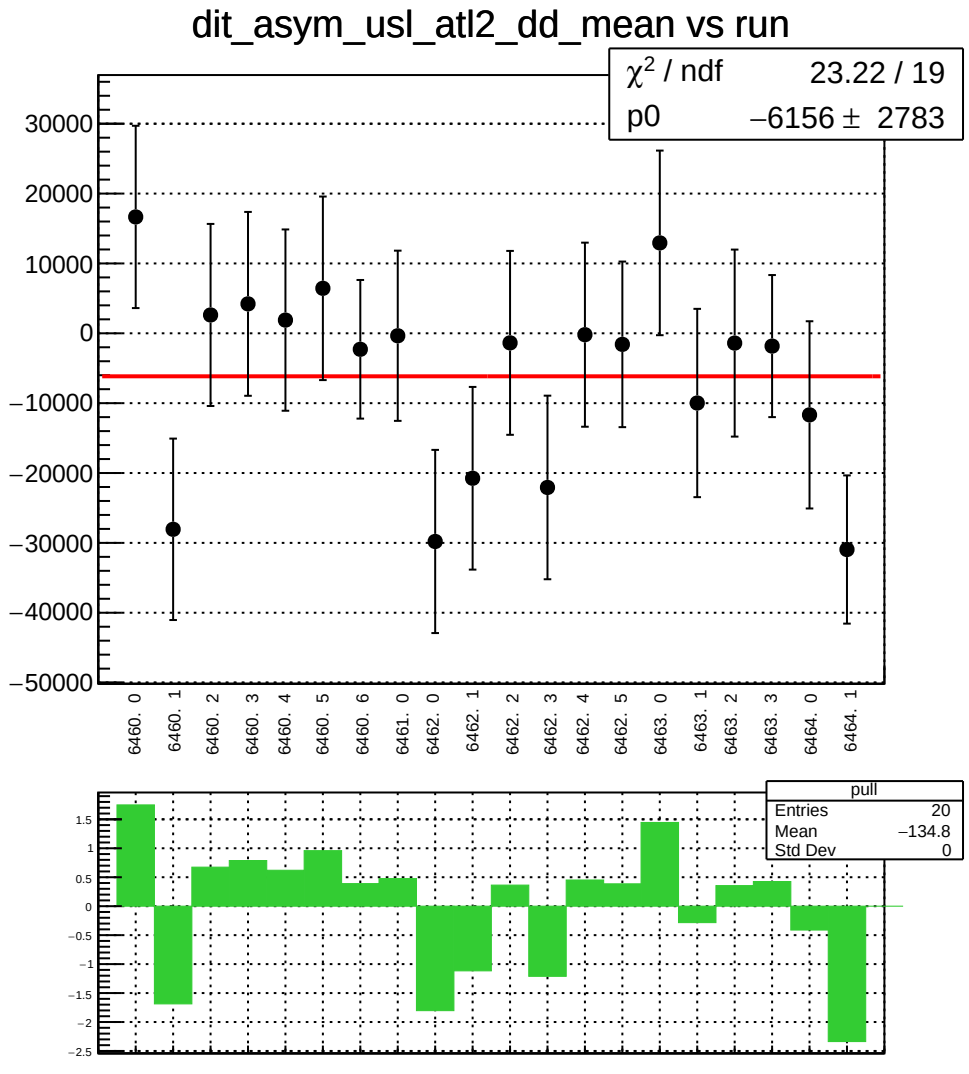

pull1D
Entries 20
Mean 0.005188
Std Dev 1.098
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

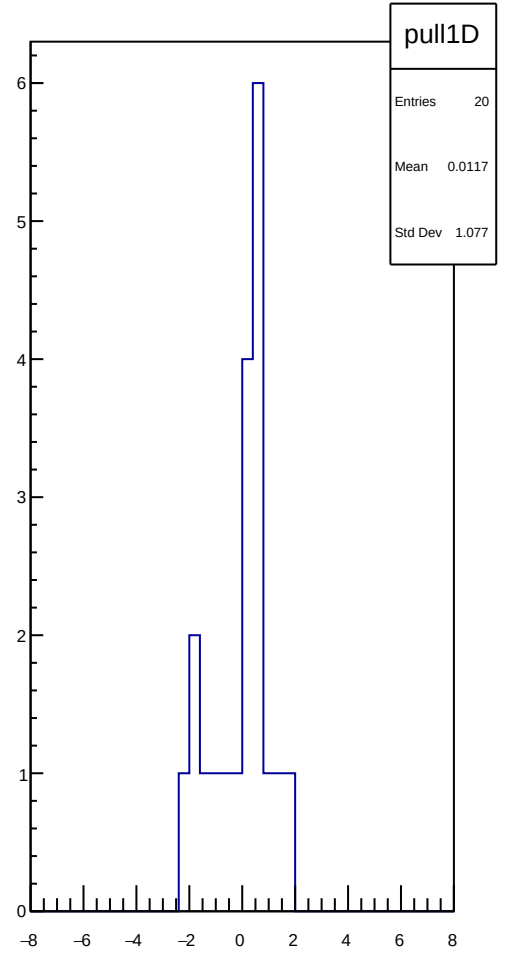

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 24.3 / 19
p0 1221 ± 1.918
1240
1230
1220
1210
1200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

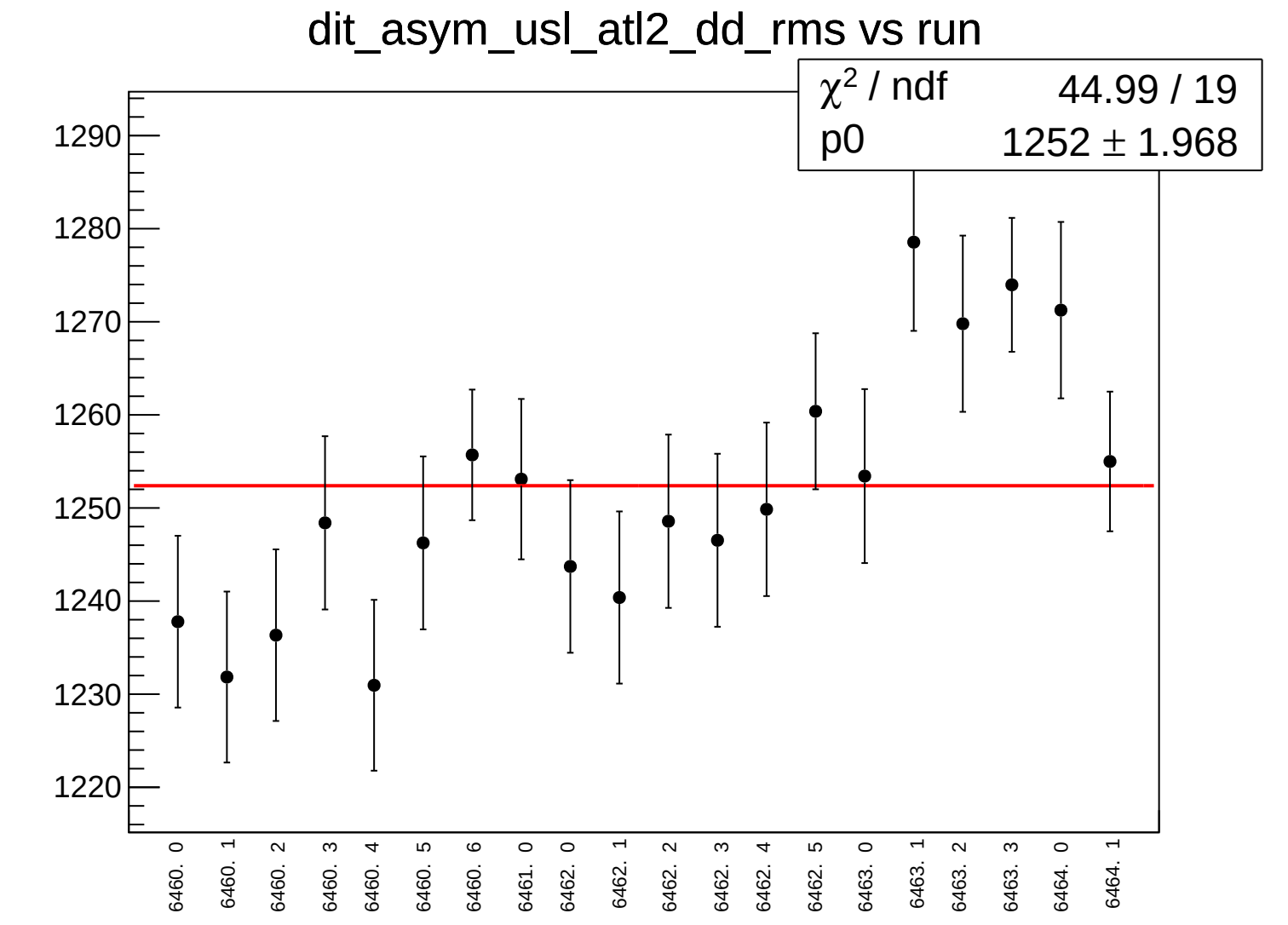

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 10.15 / 19
p0 −7011 ± 7902
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1

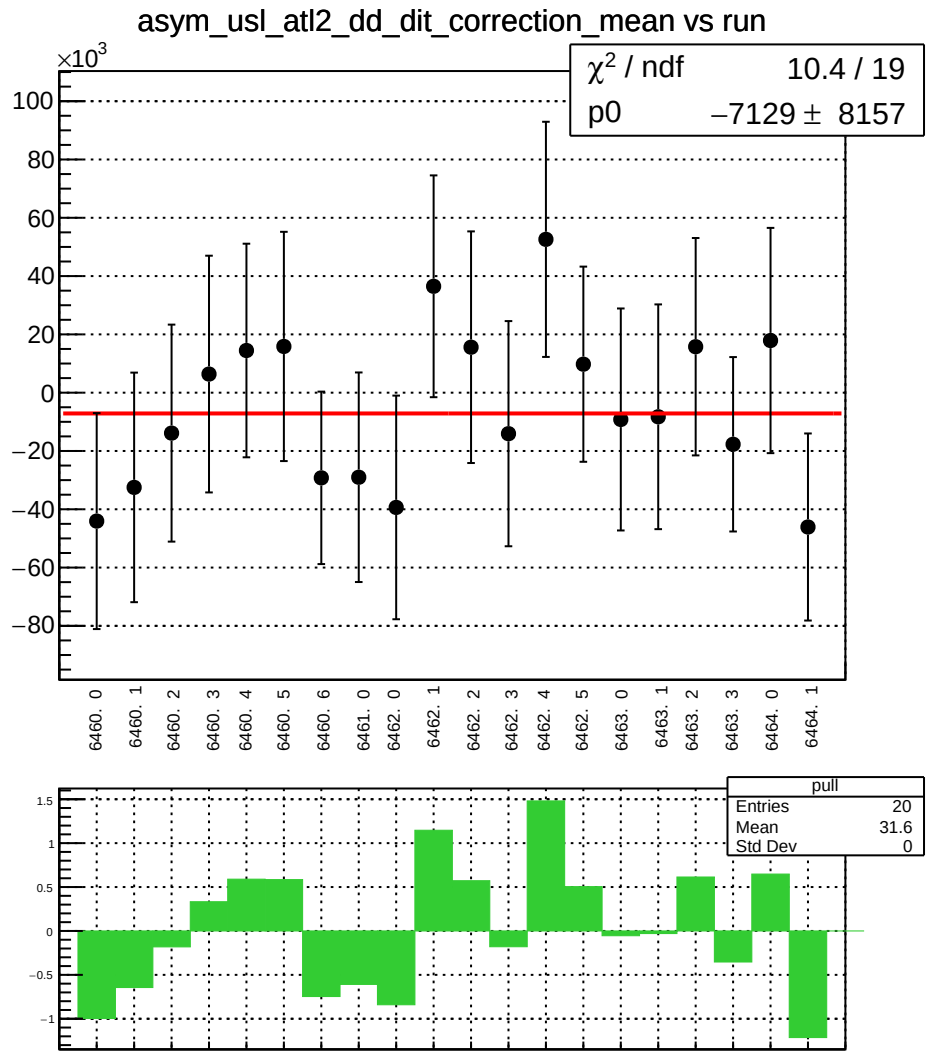

pull1D
Entries 20
Mean 0.02802
Std Dev 0.7118
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

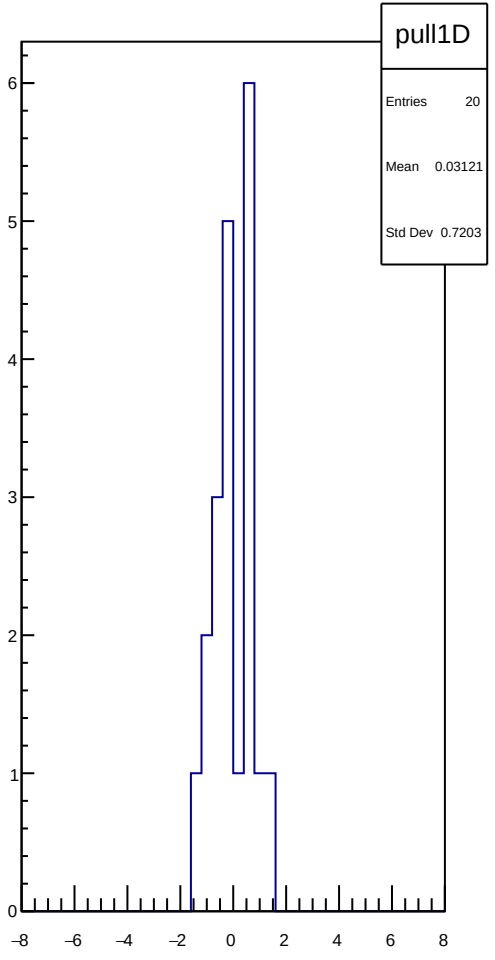

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 390 / 19
p0 3555 ± 5.588
3800
3700
3600
3500
3400
3300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

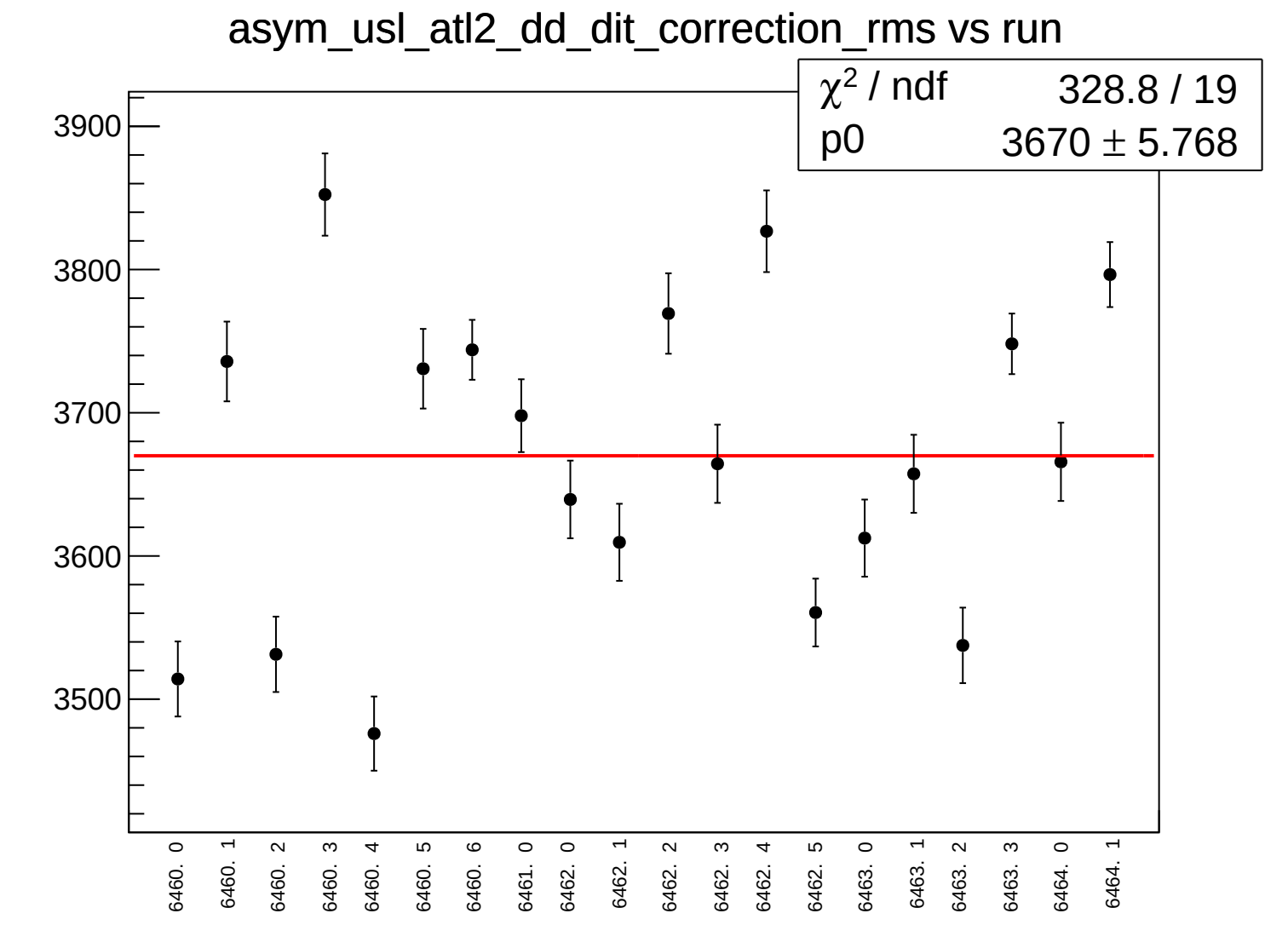

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 23.22 / 19
p0 −6156 ± 2783
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −134.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

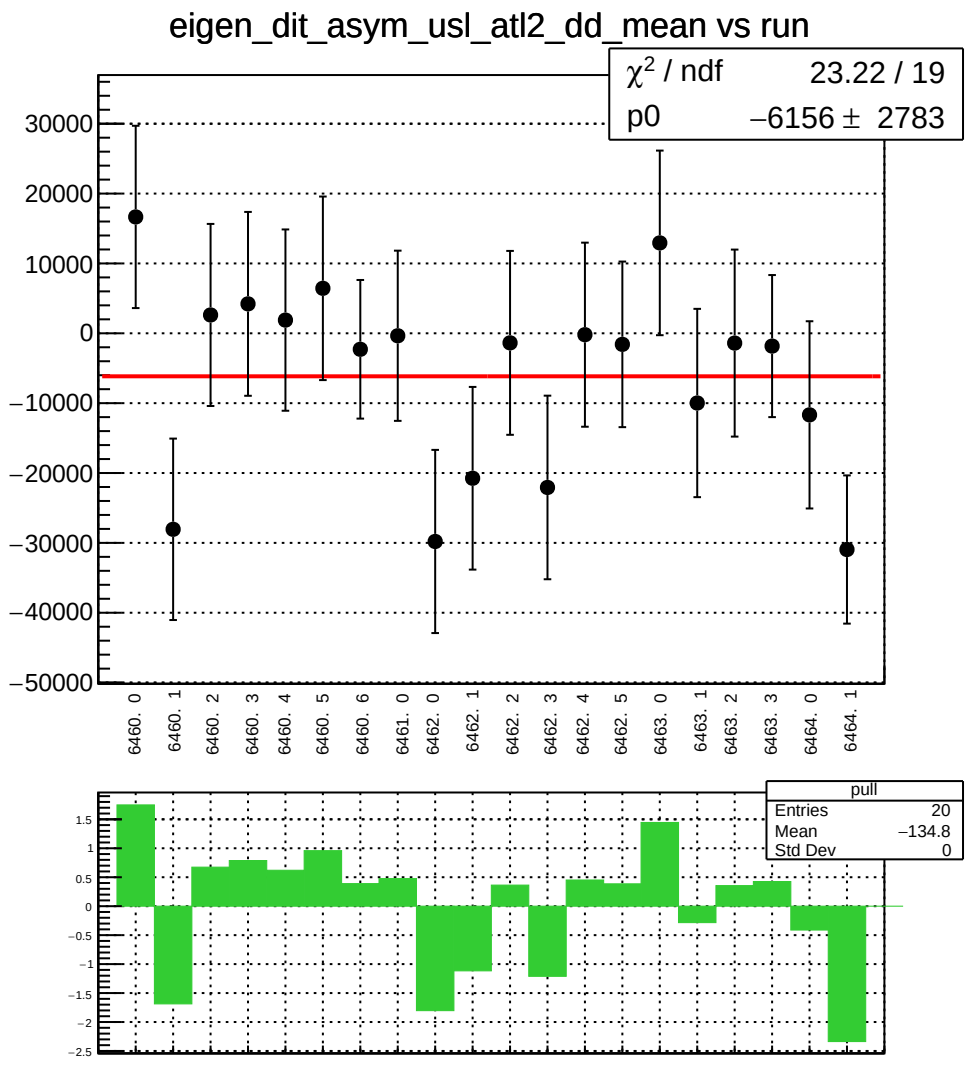

pull1D
Entries 20
Mean 0.0117
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

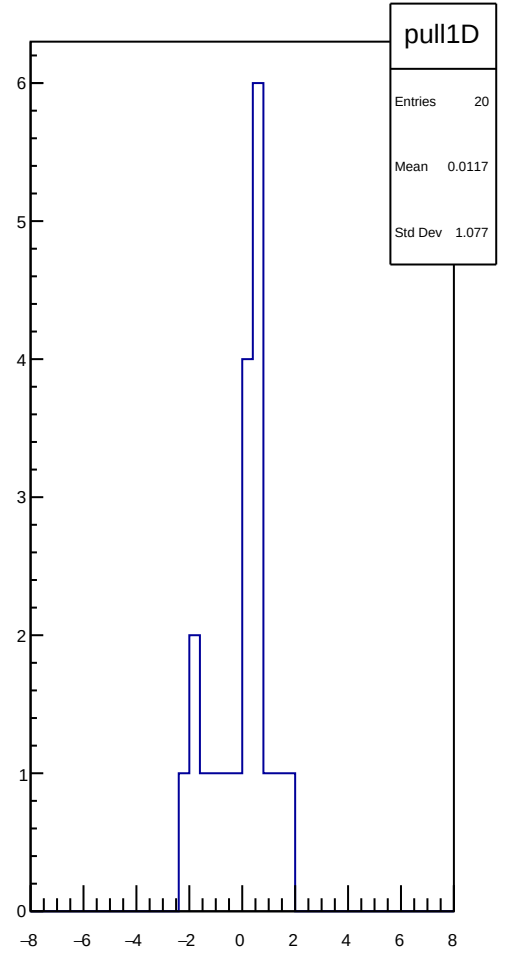

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 44.99 / 19
p0 1252 ± 1.968
1290
1280
1270
1260
1250
1240
1230
1220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

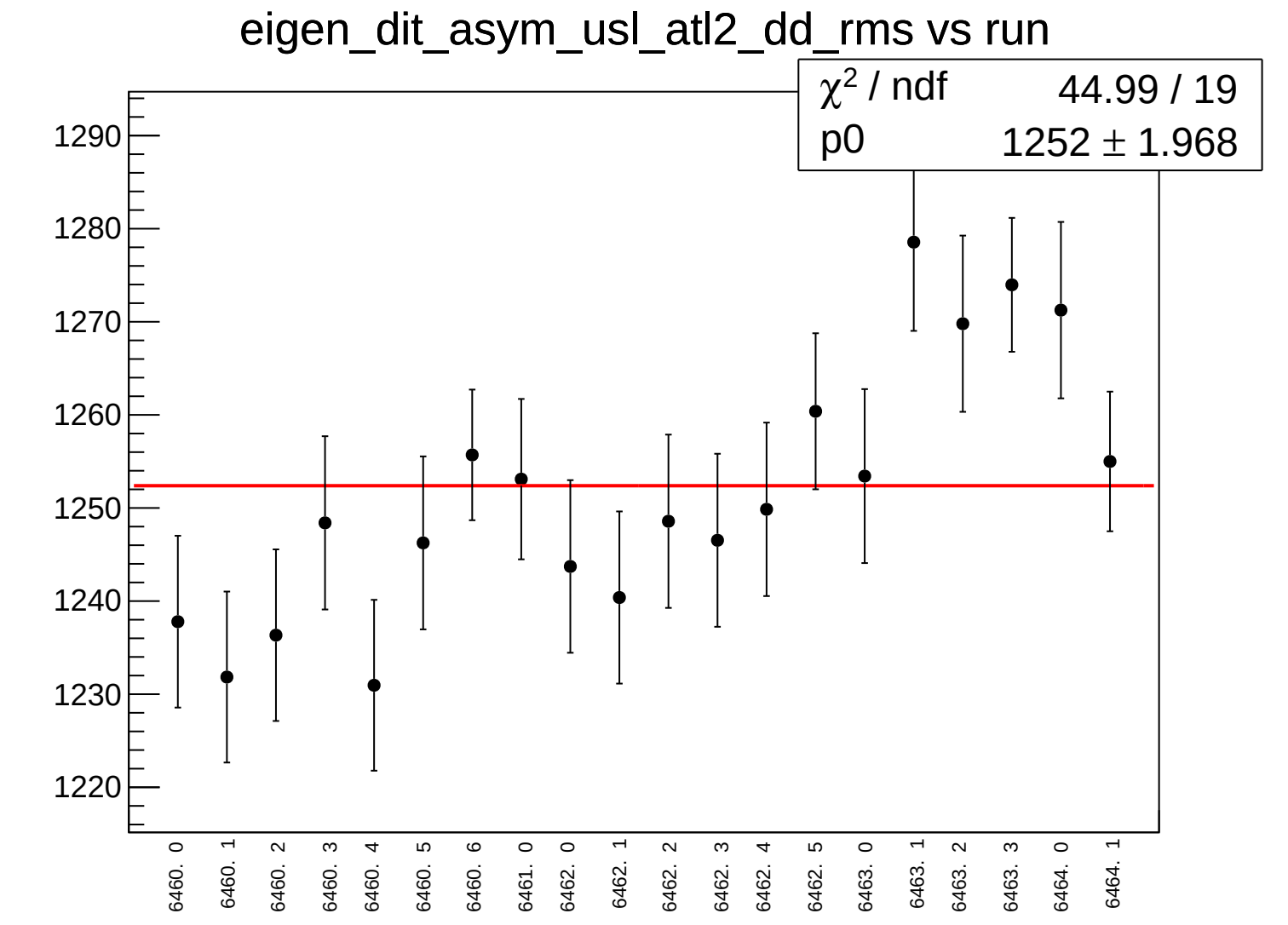

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 10.4 / 19
p0 −7129 ± 8157
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

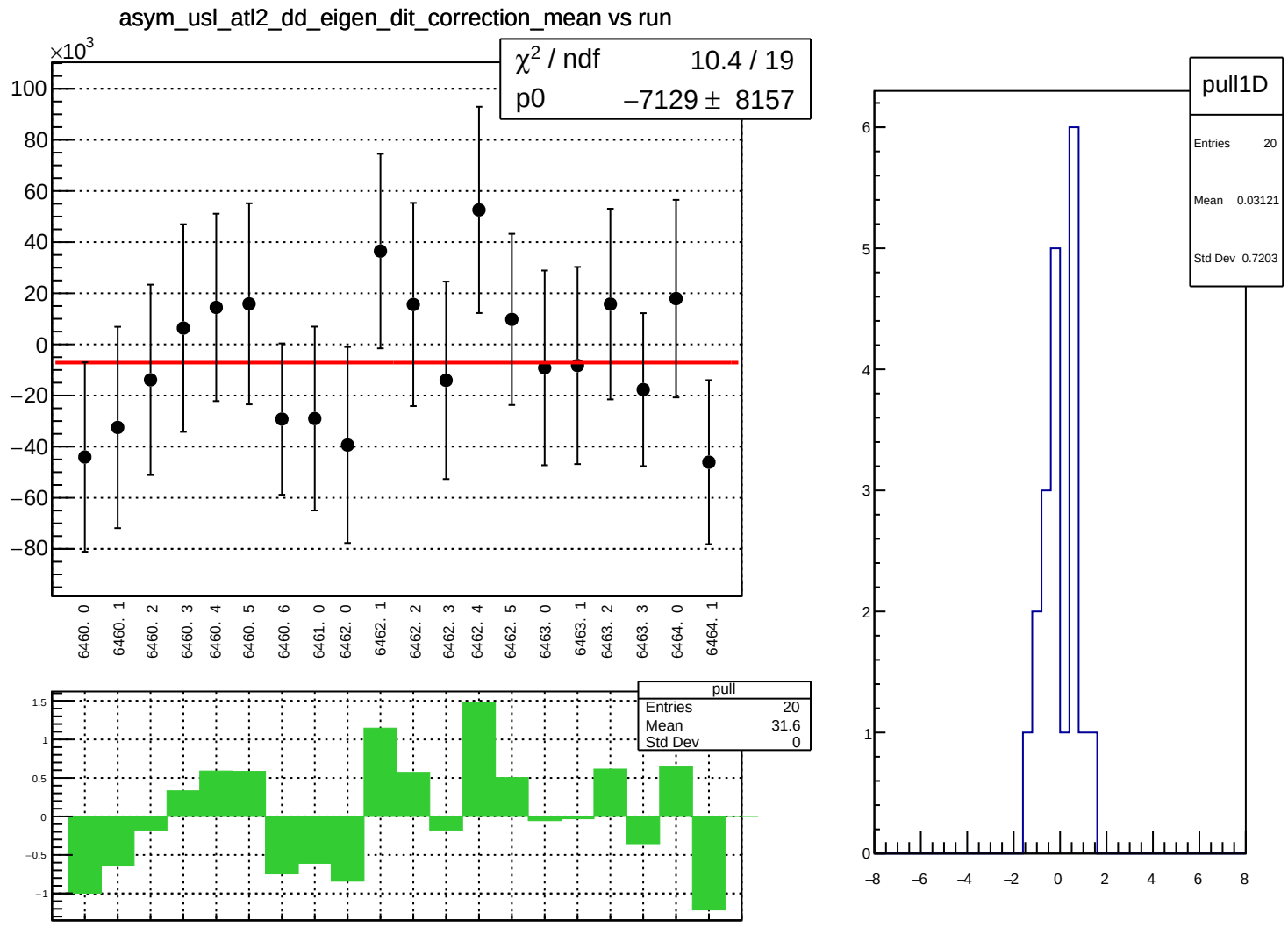

pull1D
Entries 20
Mean 0.03121
Std Dev 0.7203
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

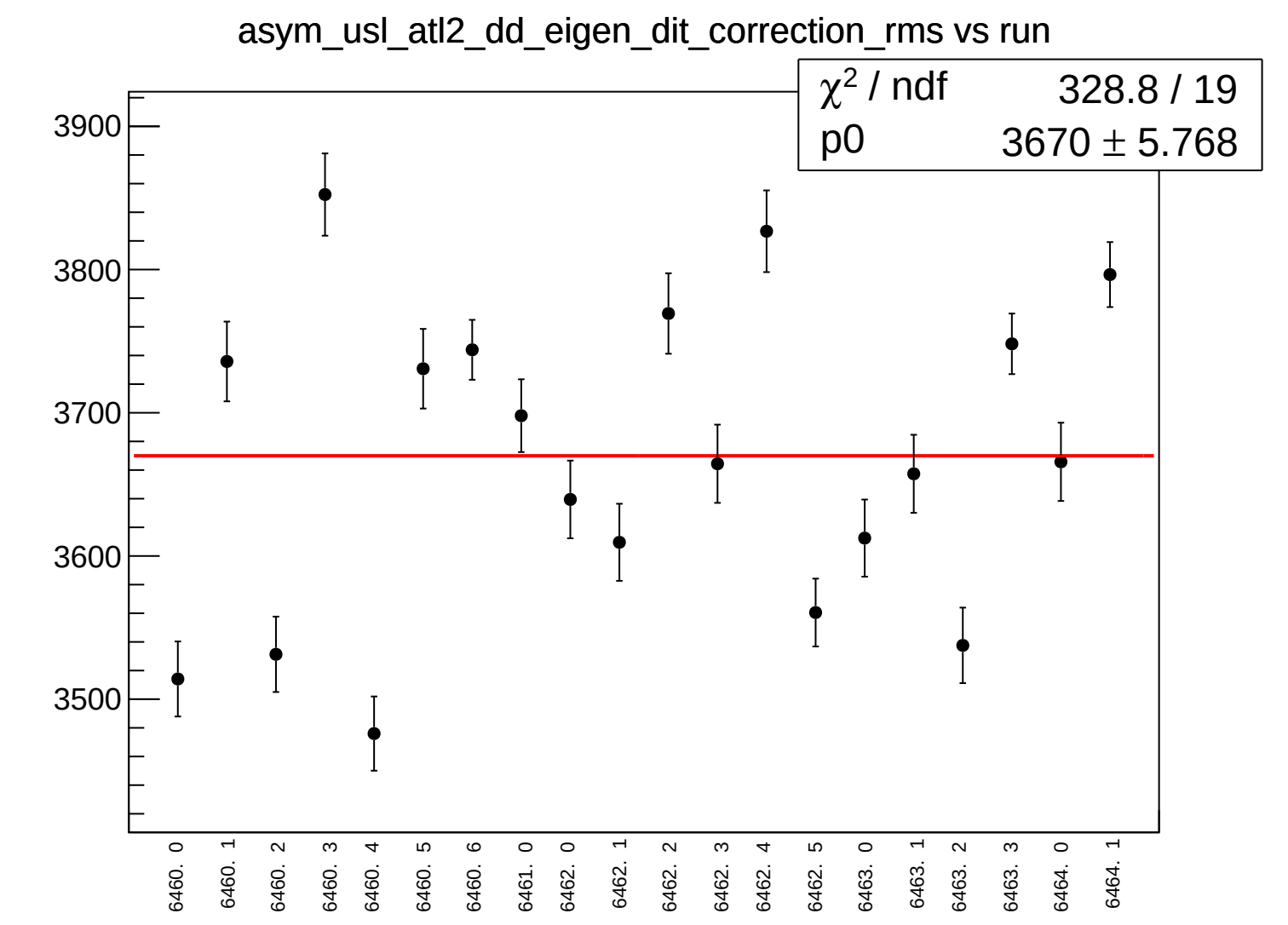

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 328.8 / 19
p0 3670 ± 5.768
3900
3800
3700
3600
3500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

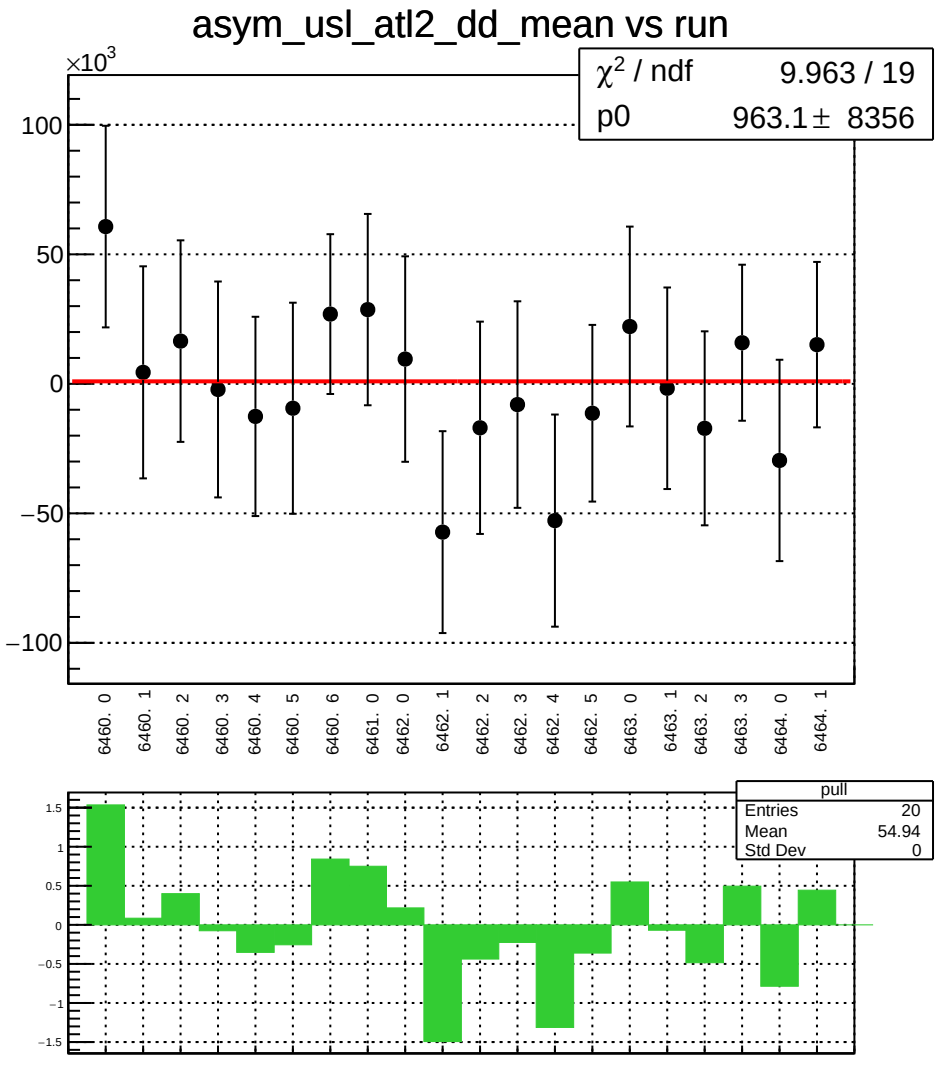

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 23.22 / 19
p0 −6156 ± 2783
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −134.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

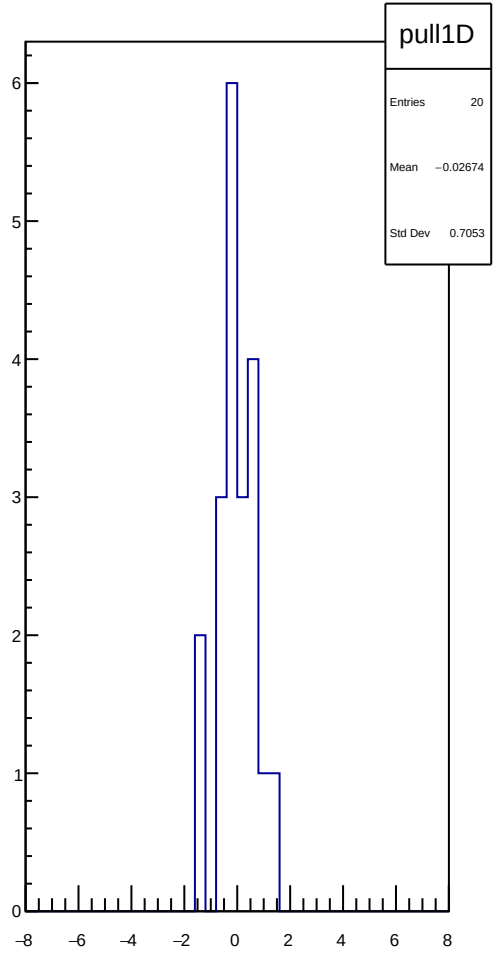

pull1D
Entries 20
Mean 0.0117
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

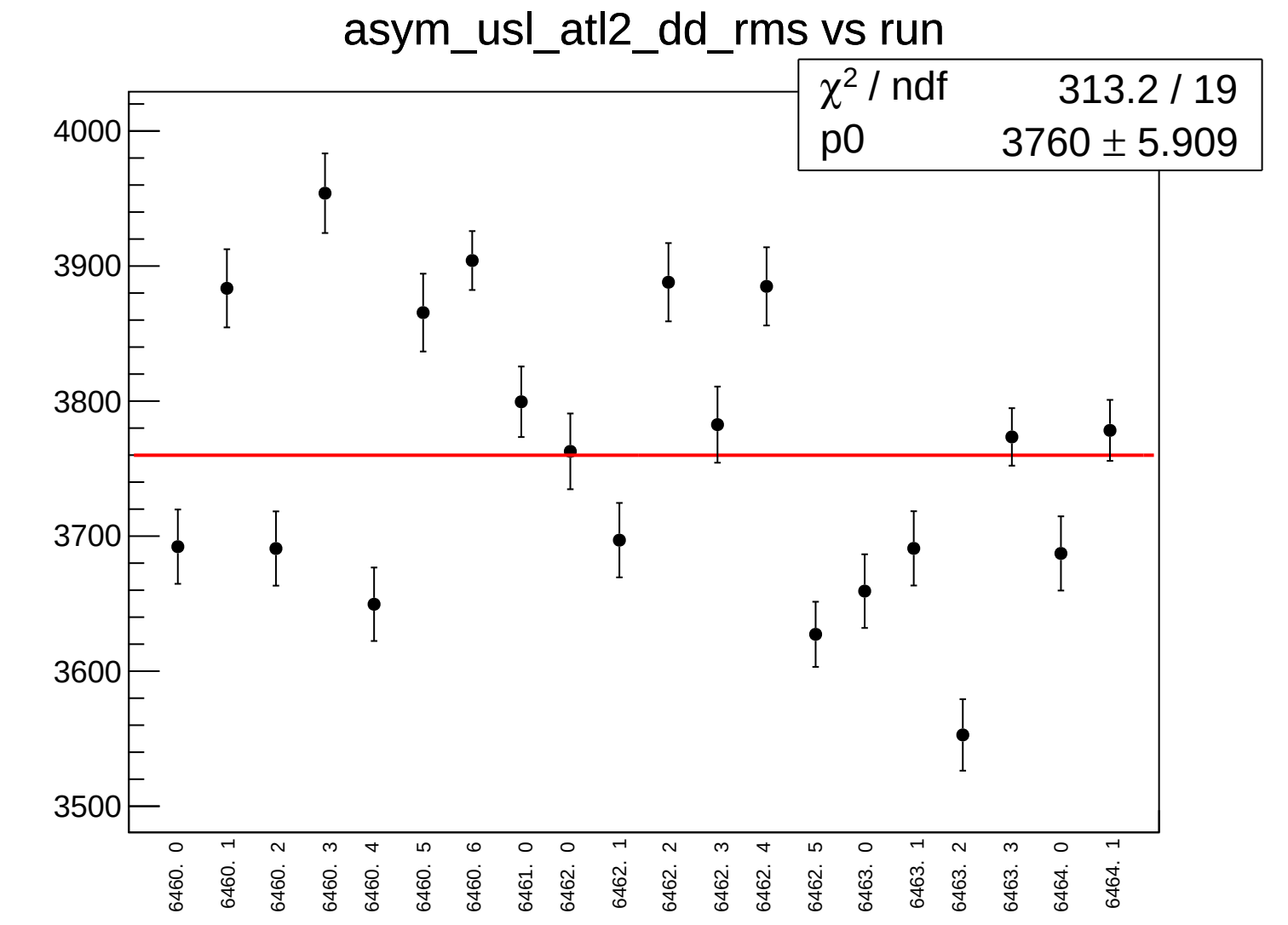

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 44.99 / 19
p0 1252 ± 1.968
1290
1280
1270
1260
1250
1240
1230
1220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

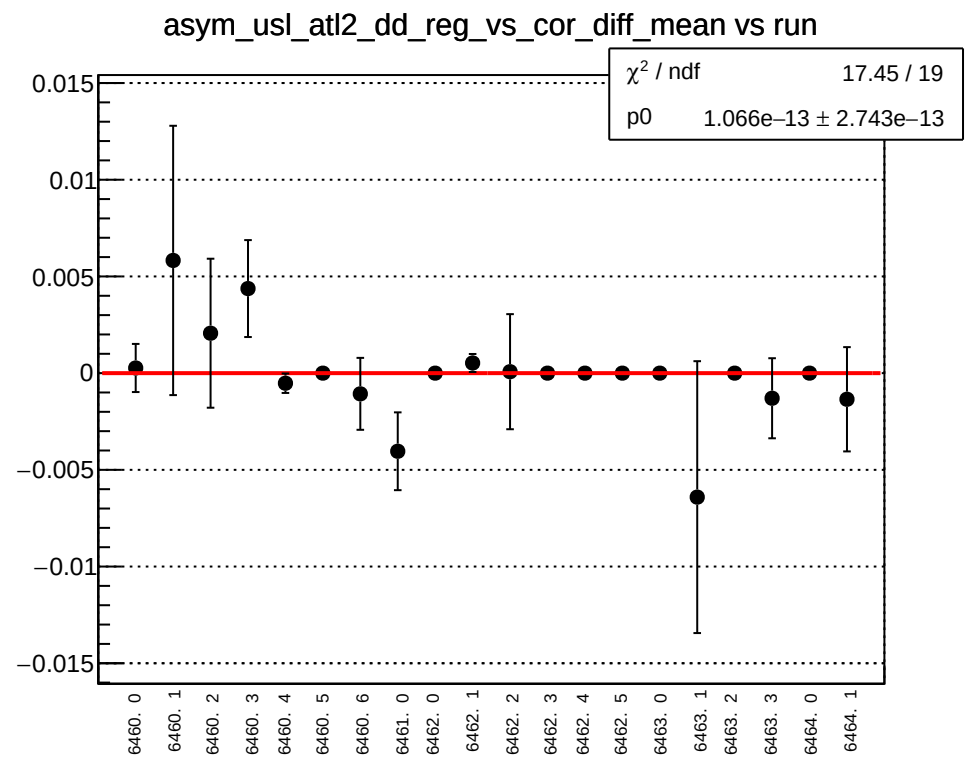

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 10.4 / 19
p0 −7129 ± 8157
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03121
Std Dev 0.7203
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

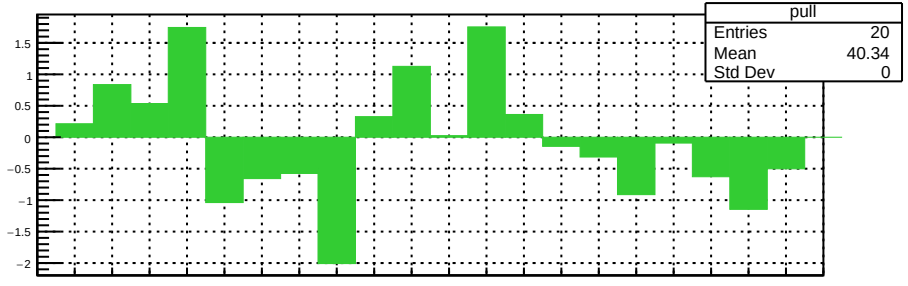

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 328.8 / 19
p0 3670 ± 5.768
3900
3800
3700
3600
3500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

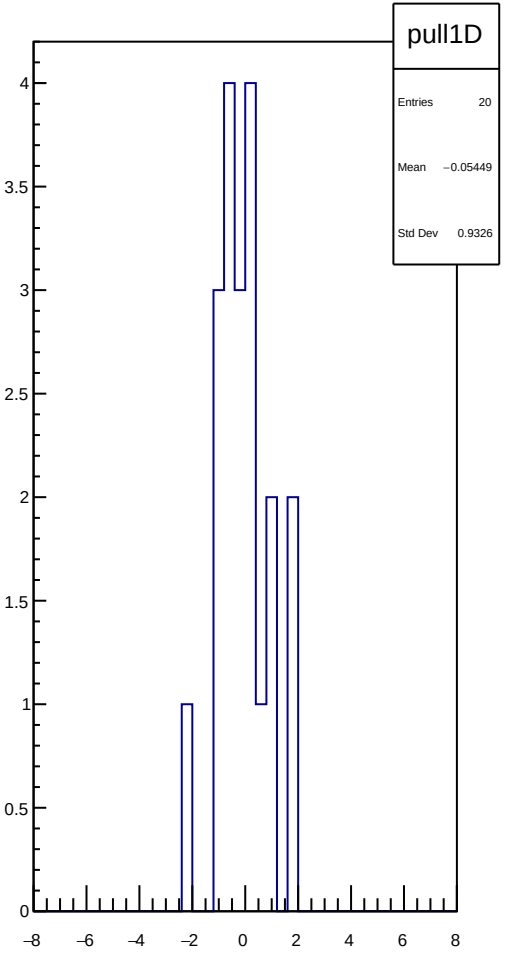

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 9.963 / 19
p0 963.1 ± 8356
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 54.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

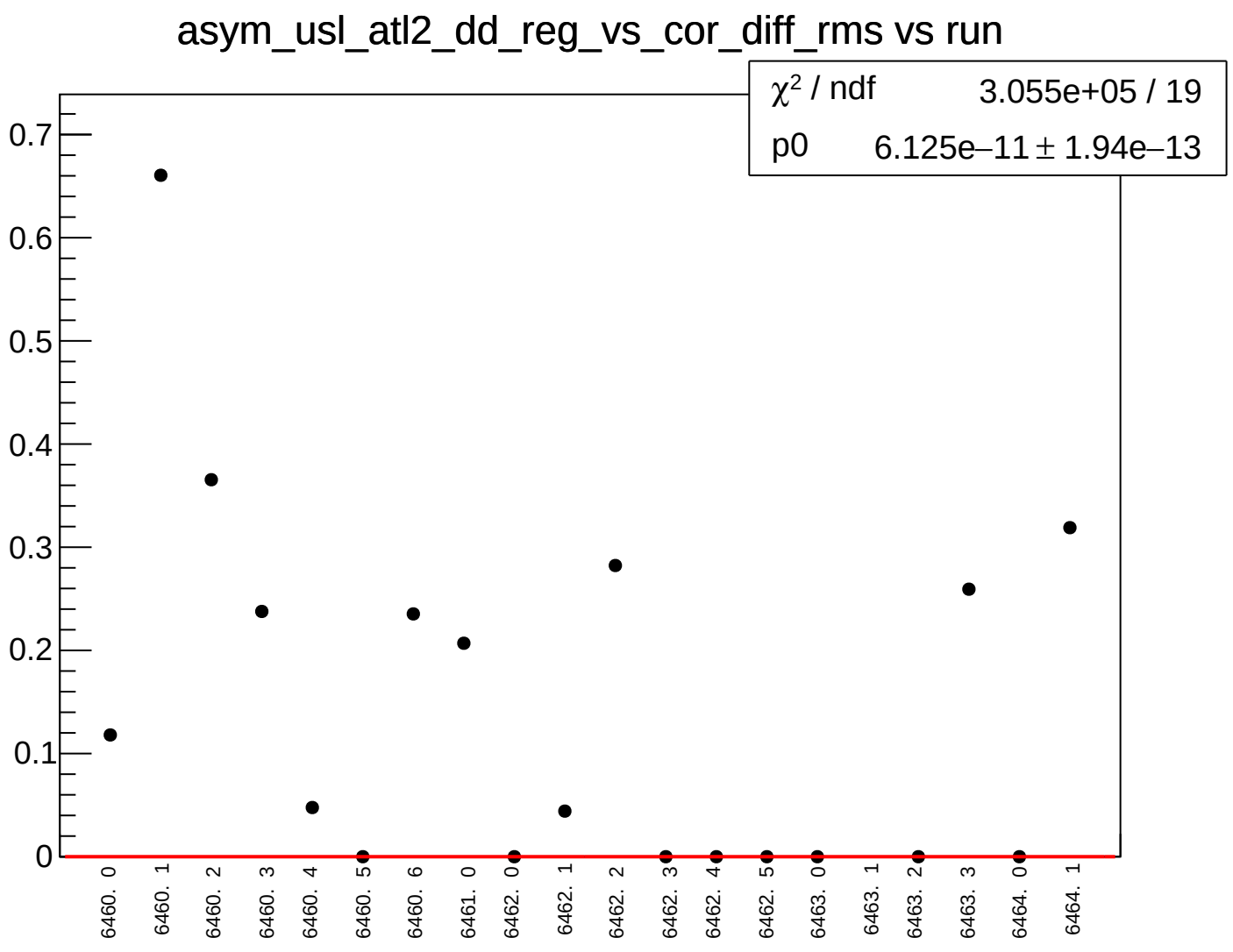

pull1D
Entries 20
Mean −0.02674
Std Dev 0.7053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

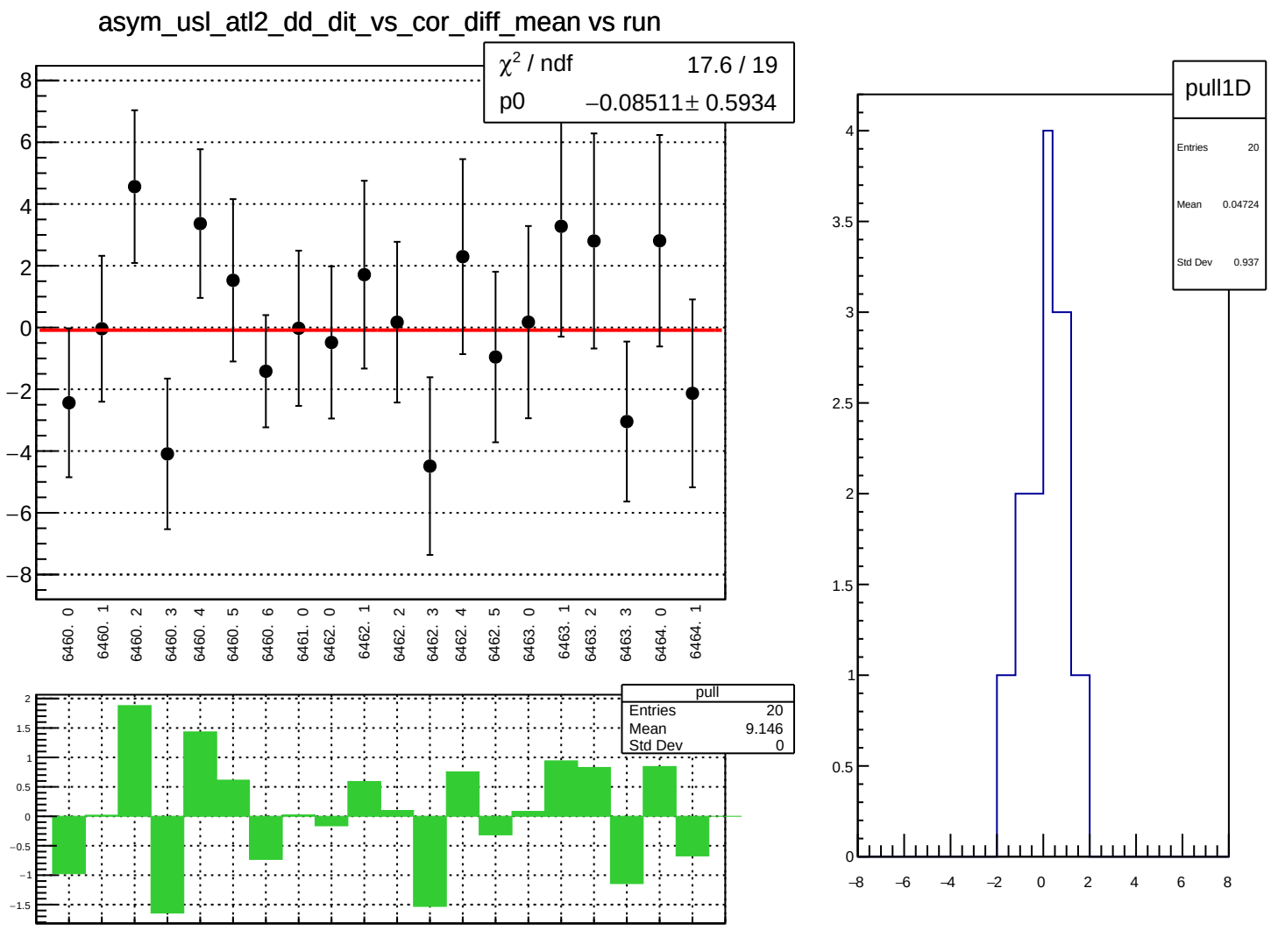

asym_usl_atl2_dd_rms vs run
χ^2 / ndf 313.2 / 19
p0 3760 ± 5.909
4000
3900
3800
3700
3600
3500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

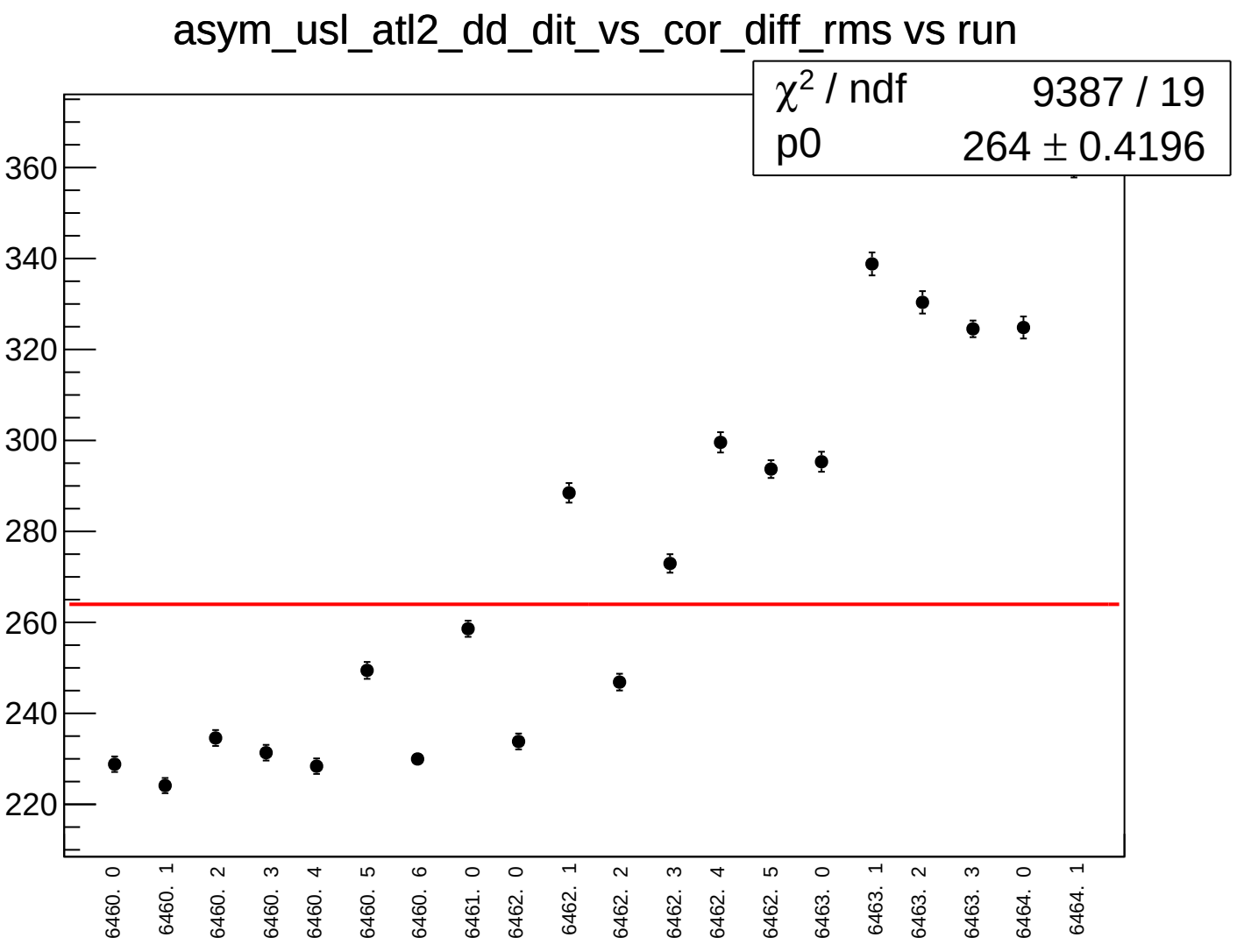

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 17.45 / 19
p0 1.066e−13 ± 2.743e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

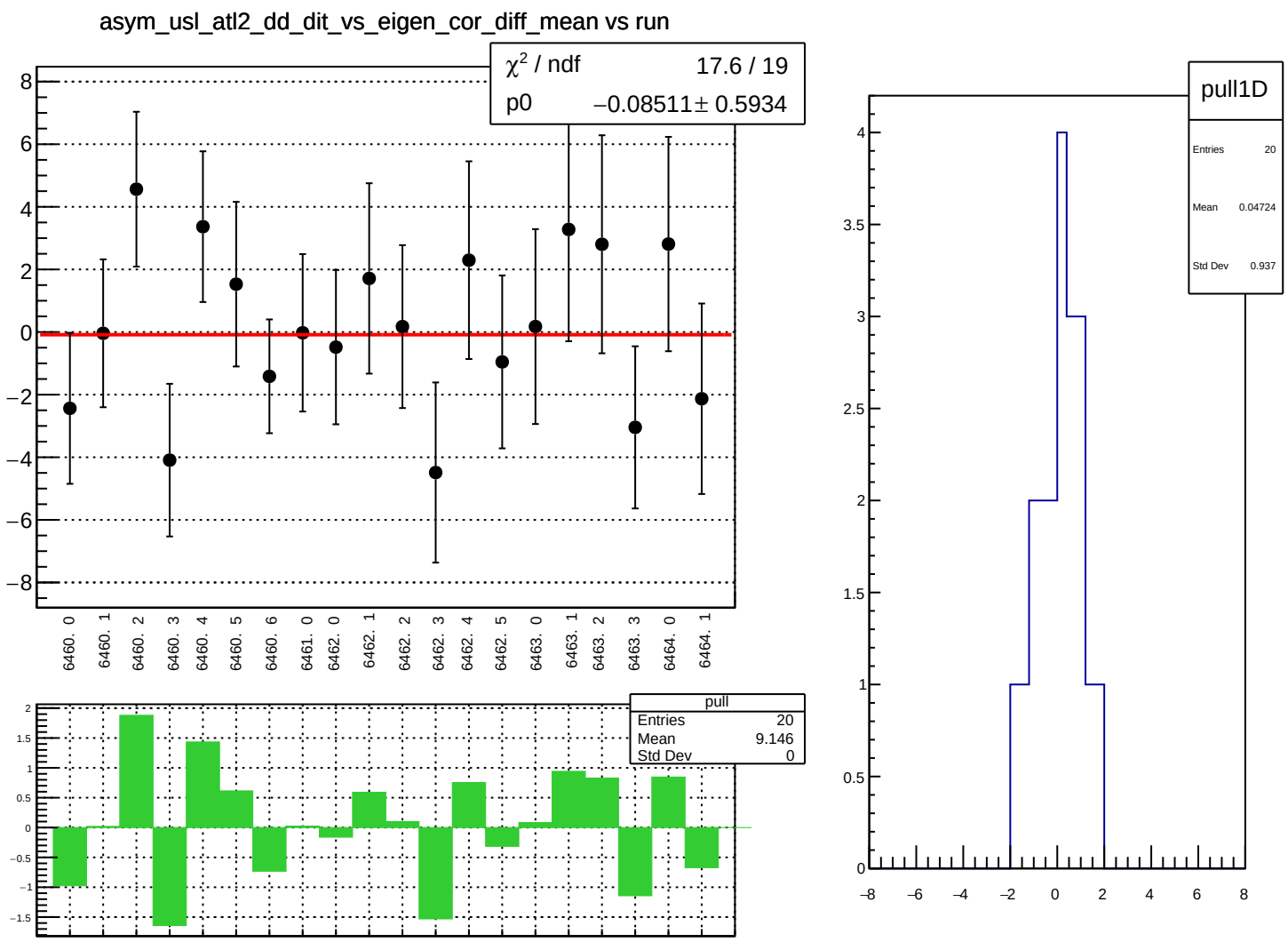

pull
Entries 20
Mean 40.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

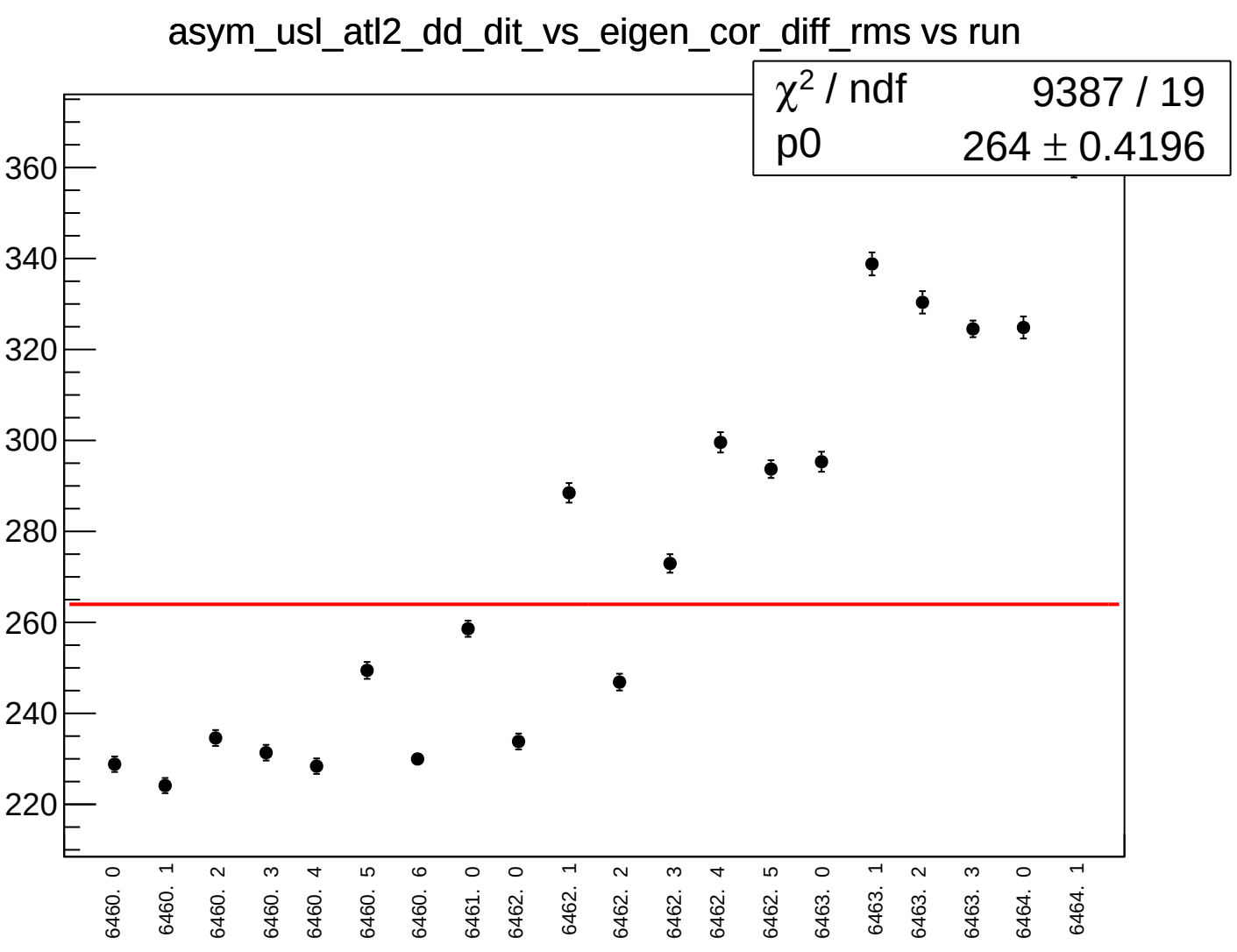

pull1D
Entries 20
Mean −0.05449
Std Dev 0.9326
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

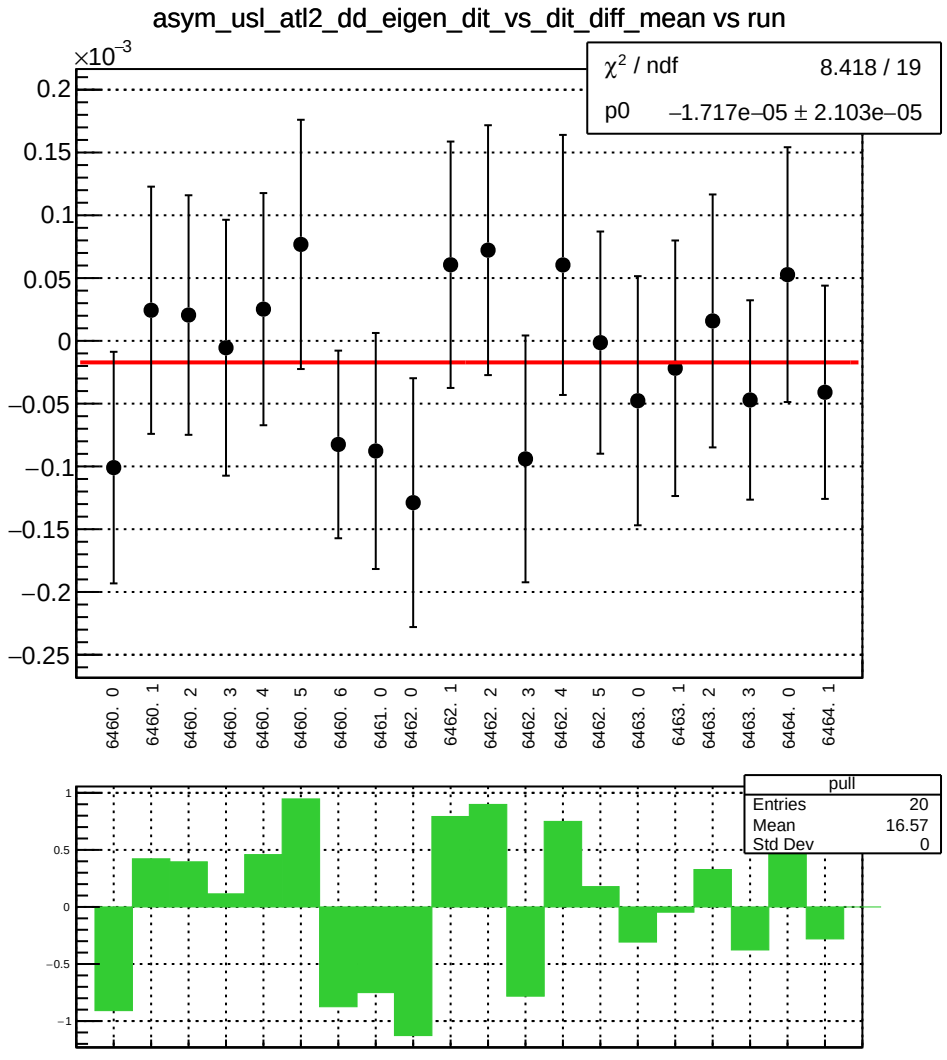

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.055e+05 / 19
p0 6.125e−11 ± 1.94e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

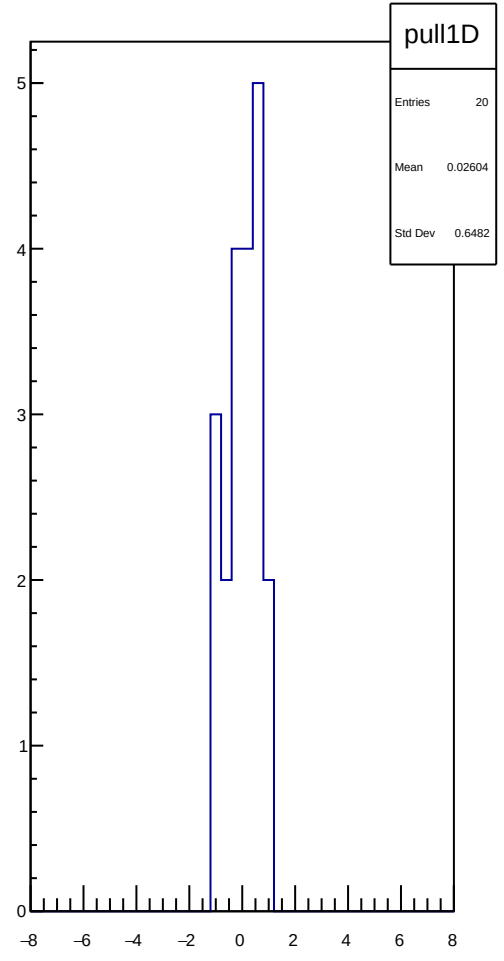

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 17.6 / 19
p0 −0.08511 ± 0.5934
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.146
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.04724
Std Dev 0.937
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

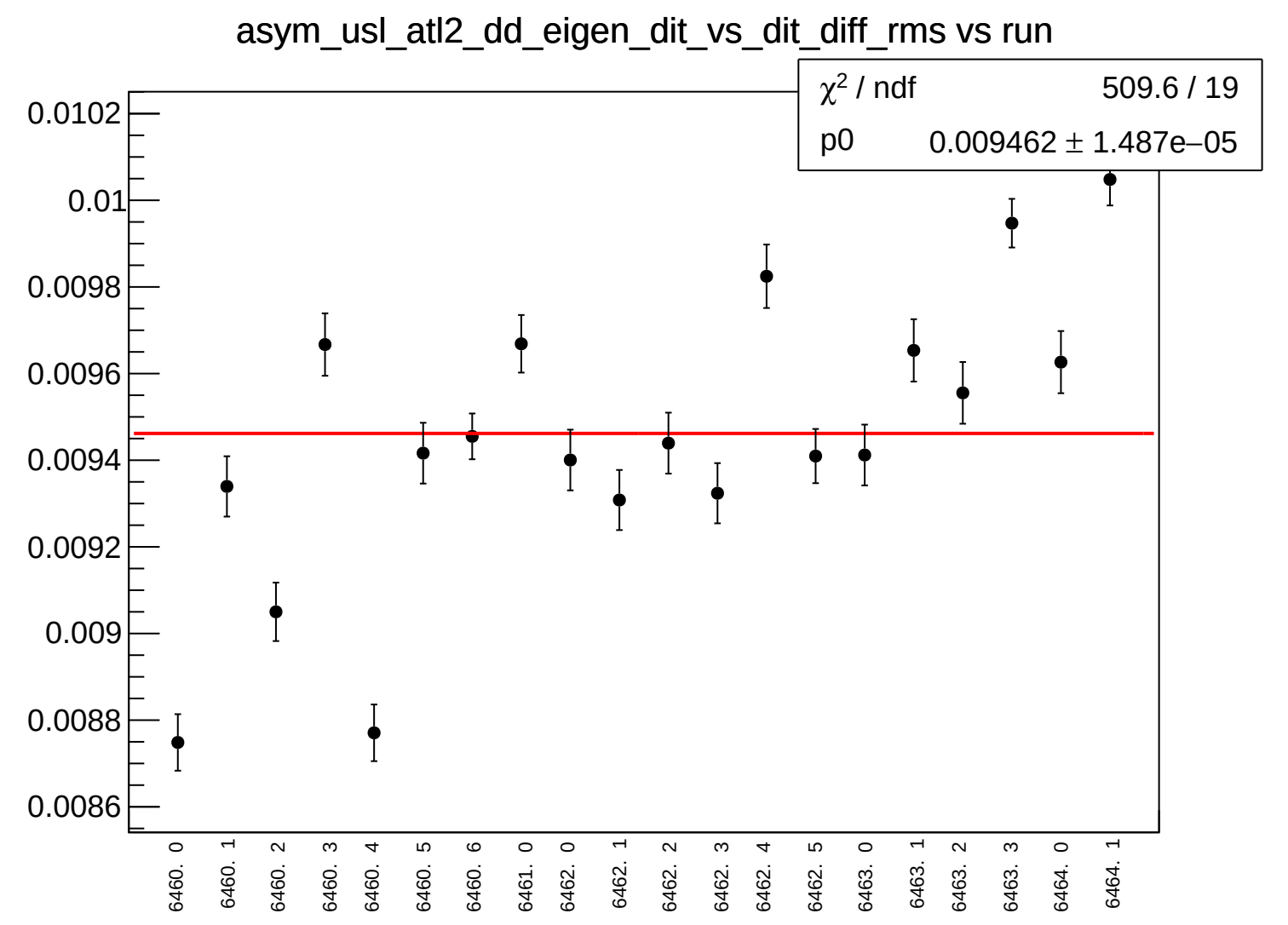

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9387 / 19
p0 264 ± 0.4196
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.6 / 19
p0 −0.08511± 0.5934
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.146
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.04724
Std Dev 0.937
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

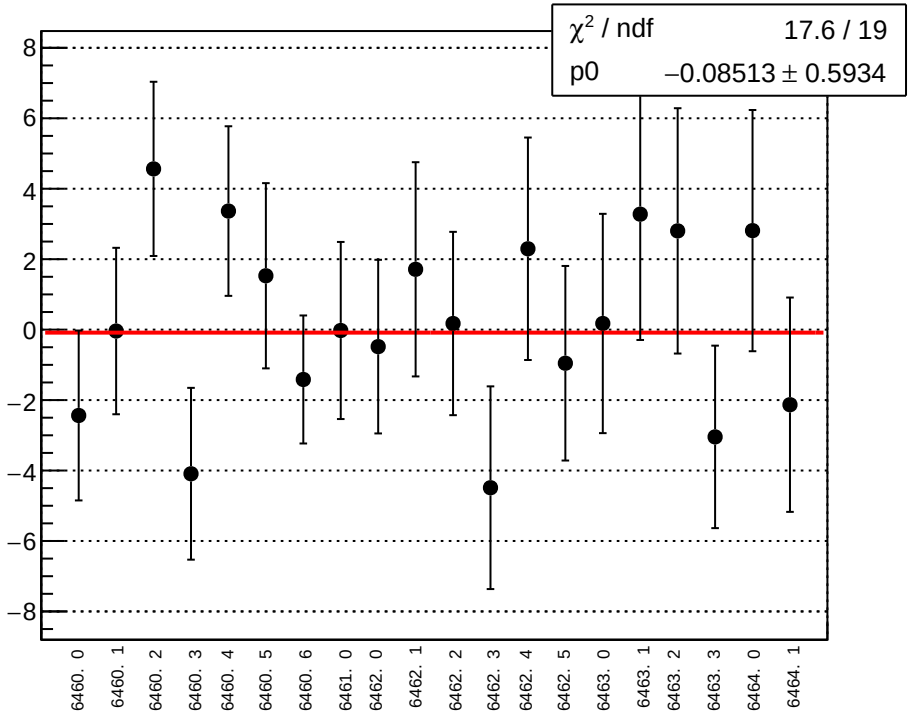

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9387 / 19
p0 264 ± 0.4196
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

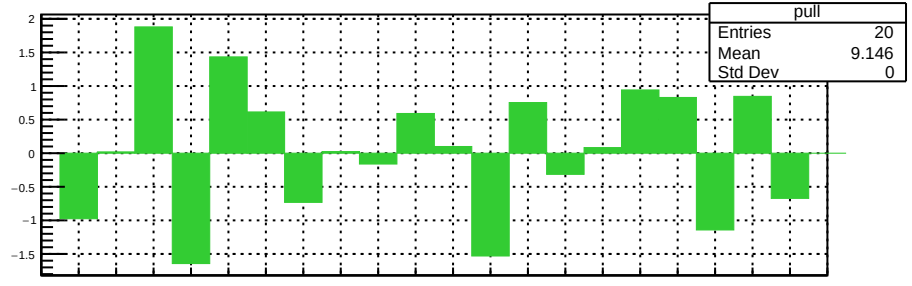

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 8.418 / 19
p0 −1.717e−05 ± 2.103e−05
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.57
Std Dev 0
1
0.5
0
−0.5
−1

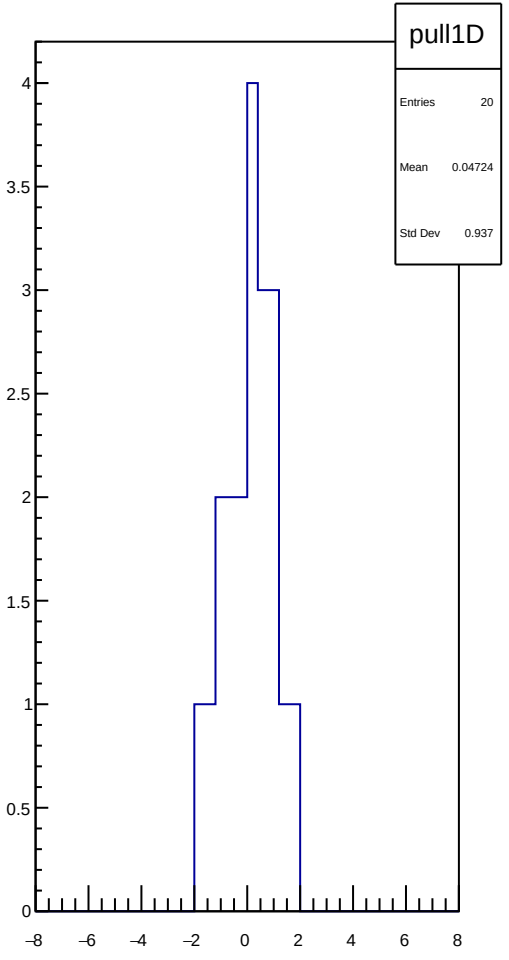

pull1D
Entries 20
Mean 0.02604
Std Dev 0.6482
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

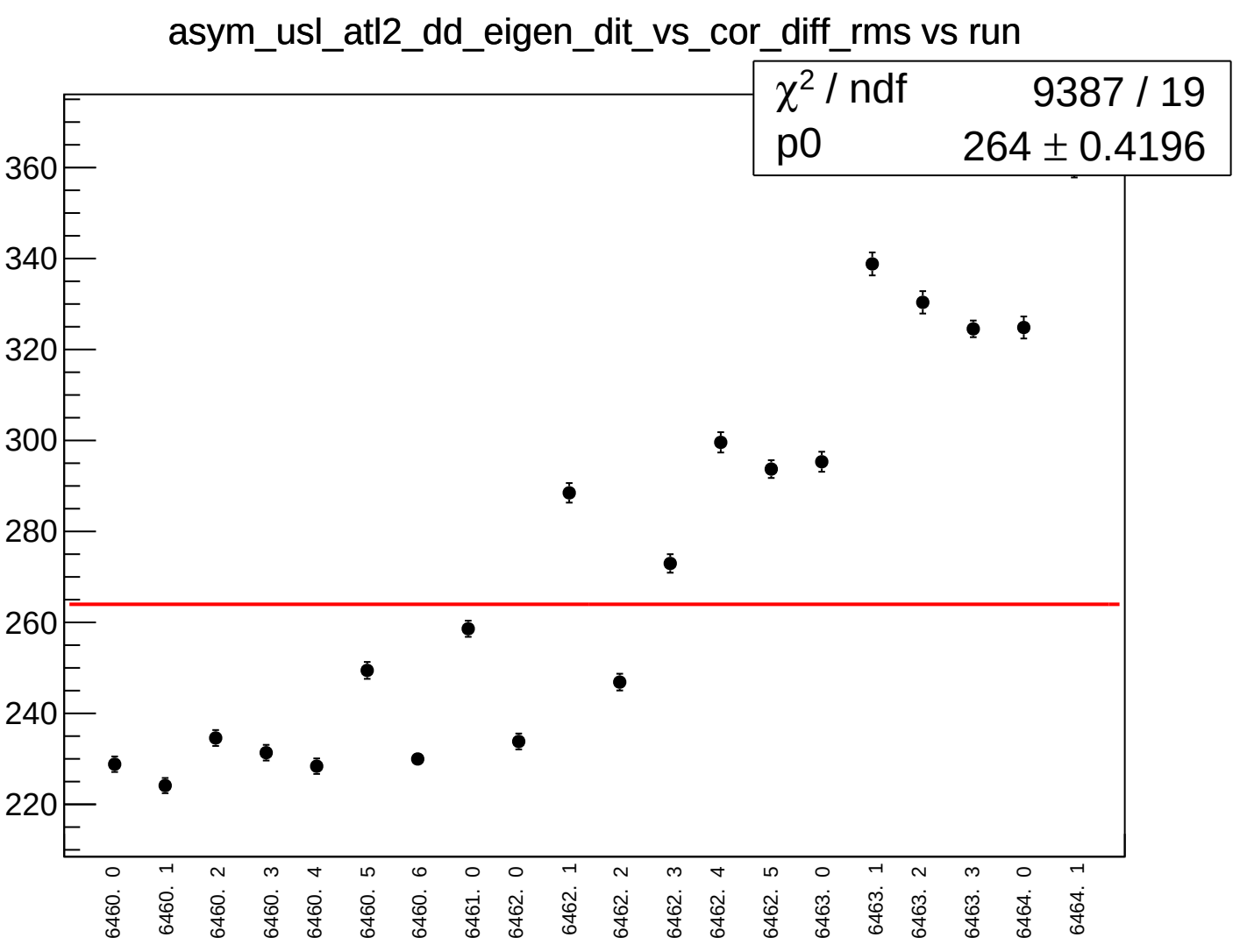

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 509.6 / 19
p0 0.009462 ± 1.487e−05
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run

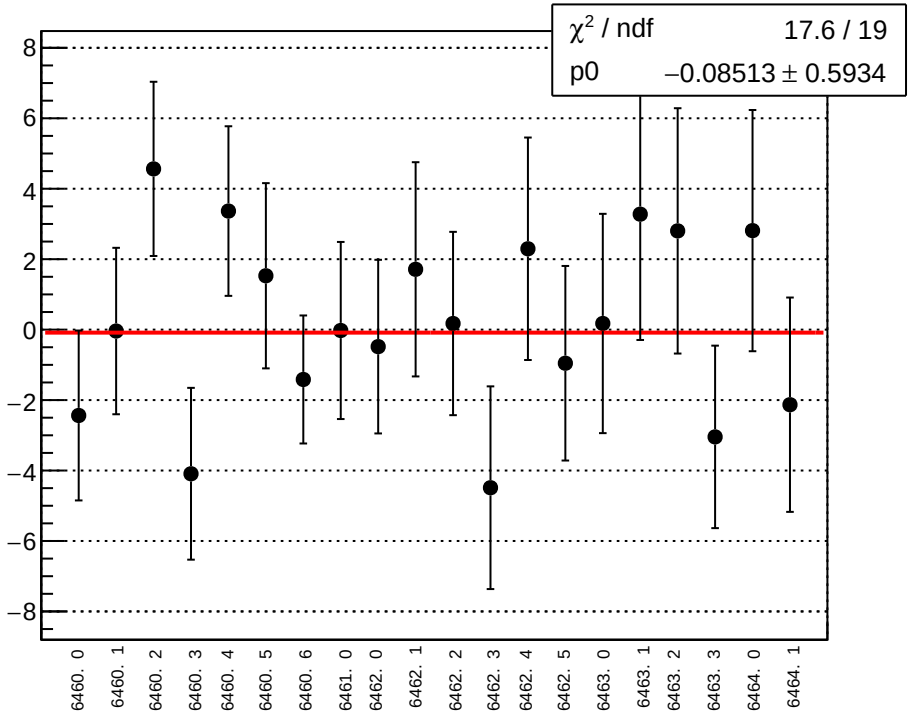


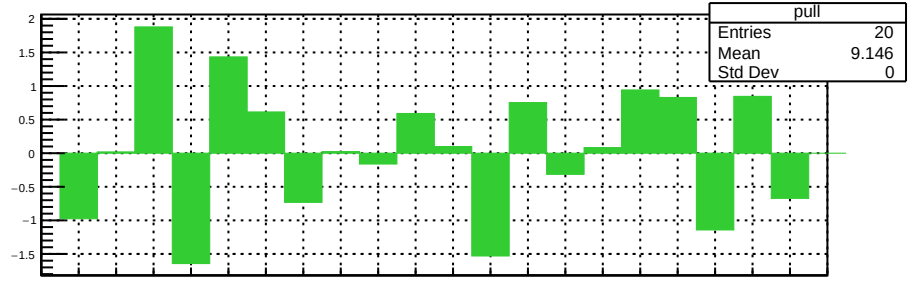


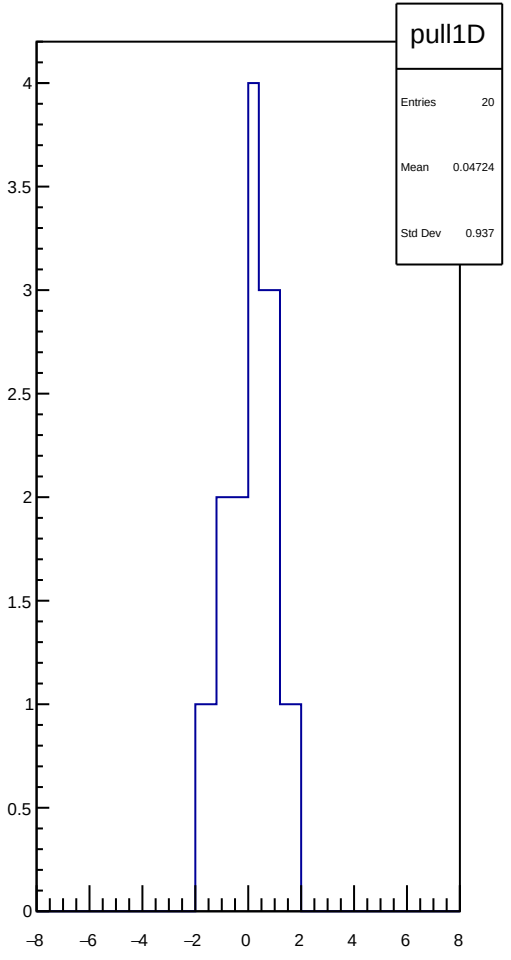


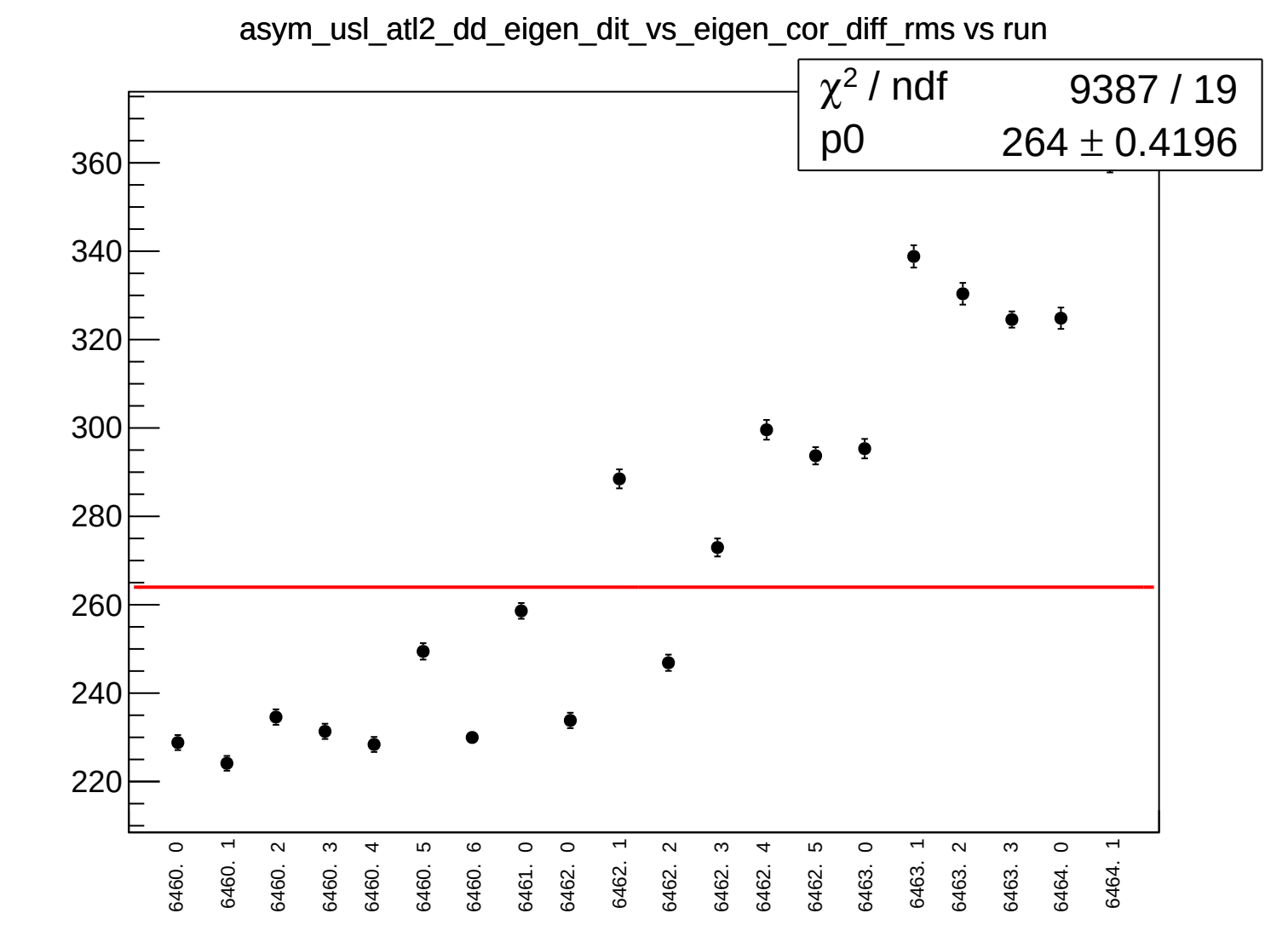

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9387 / 19
p0 264 ± 0.4196
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

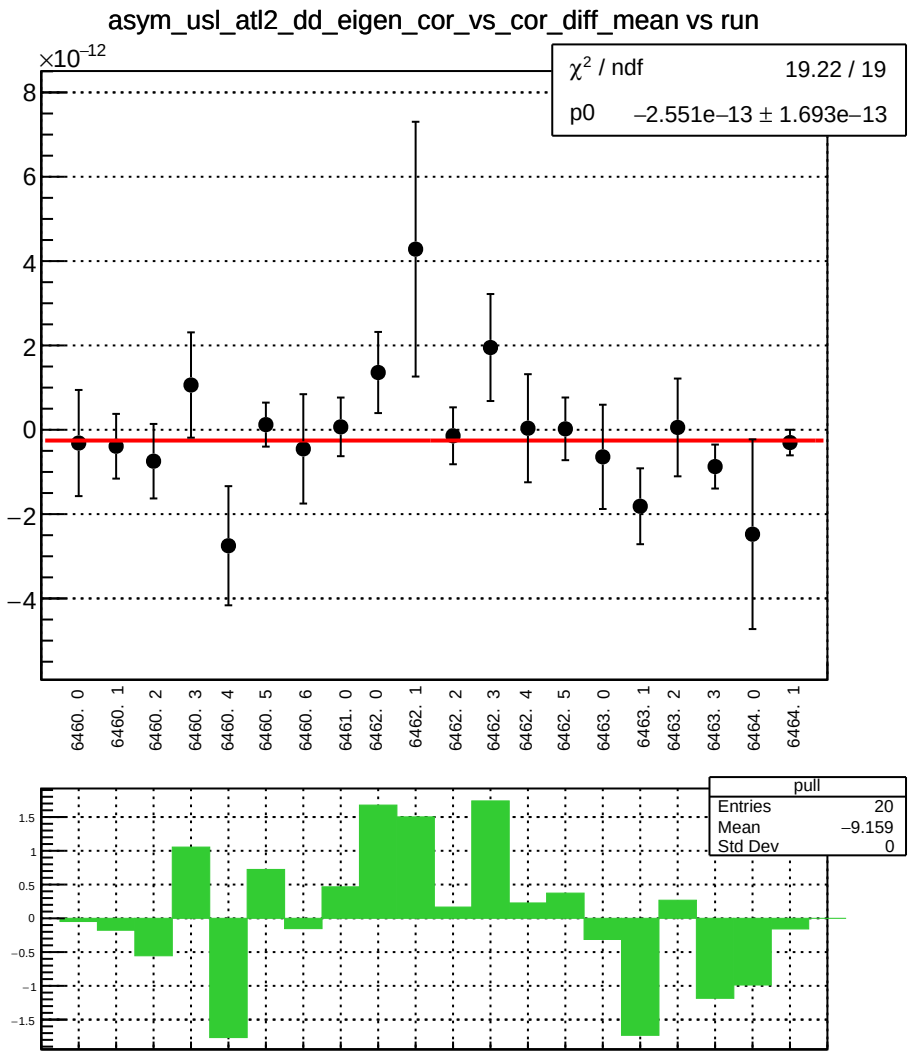
asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

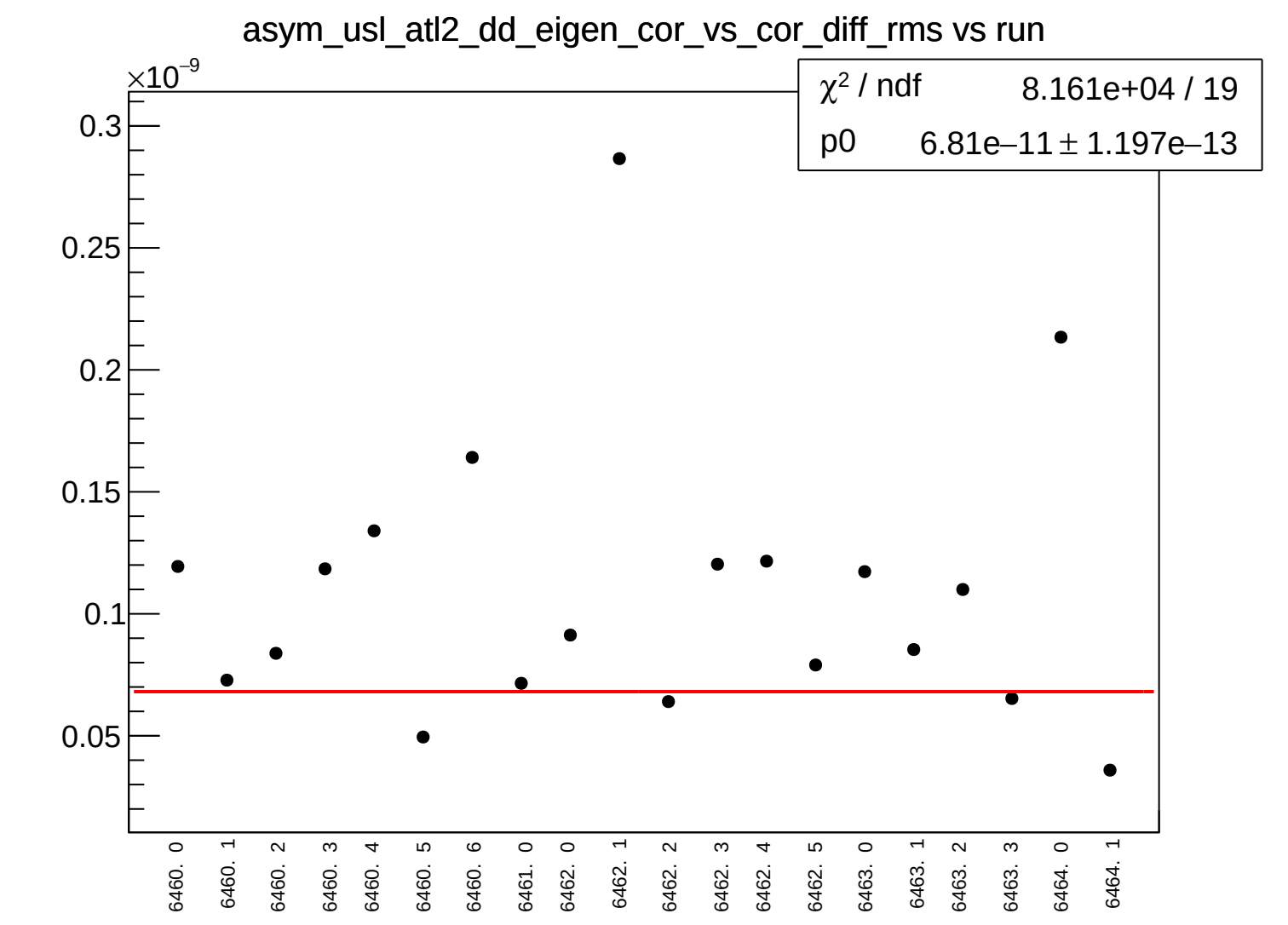


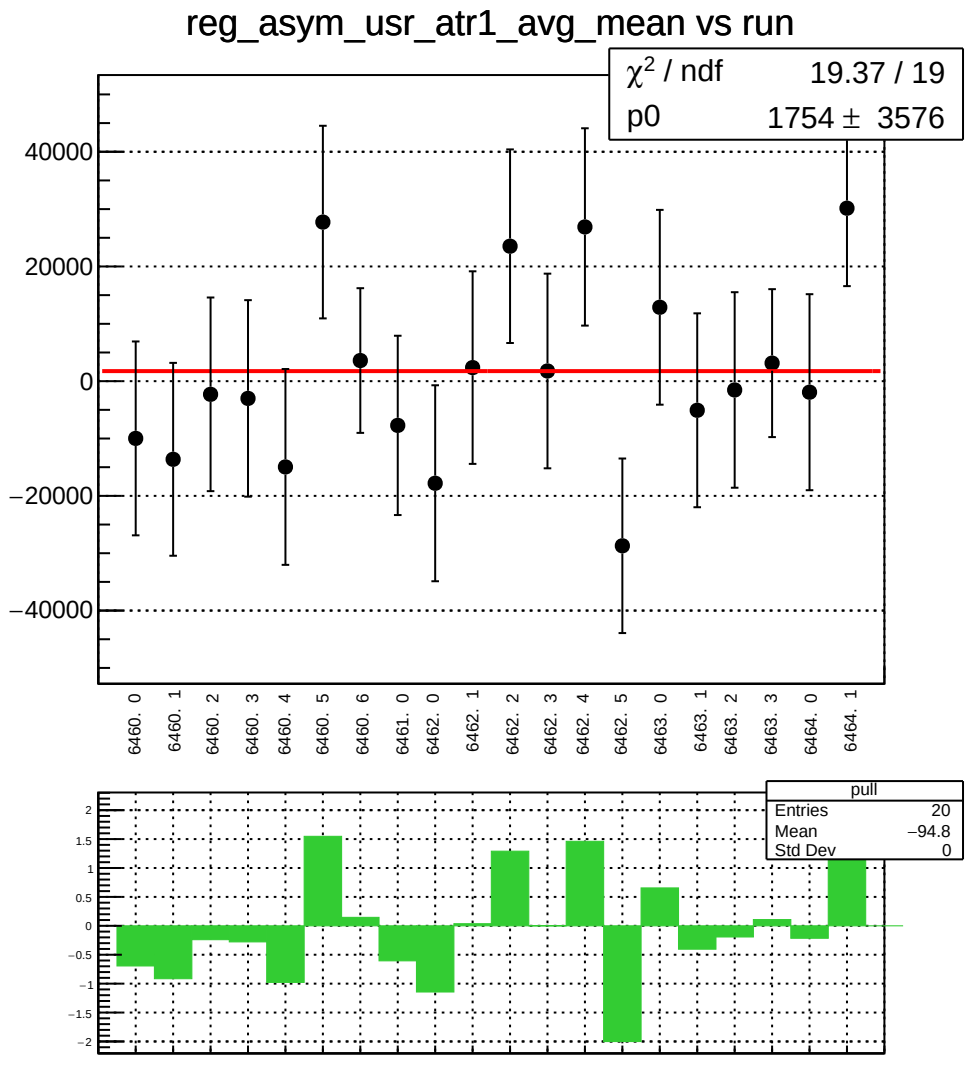


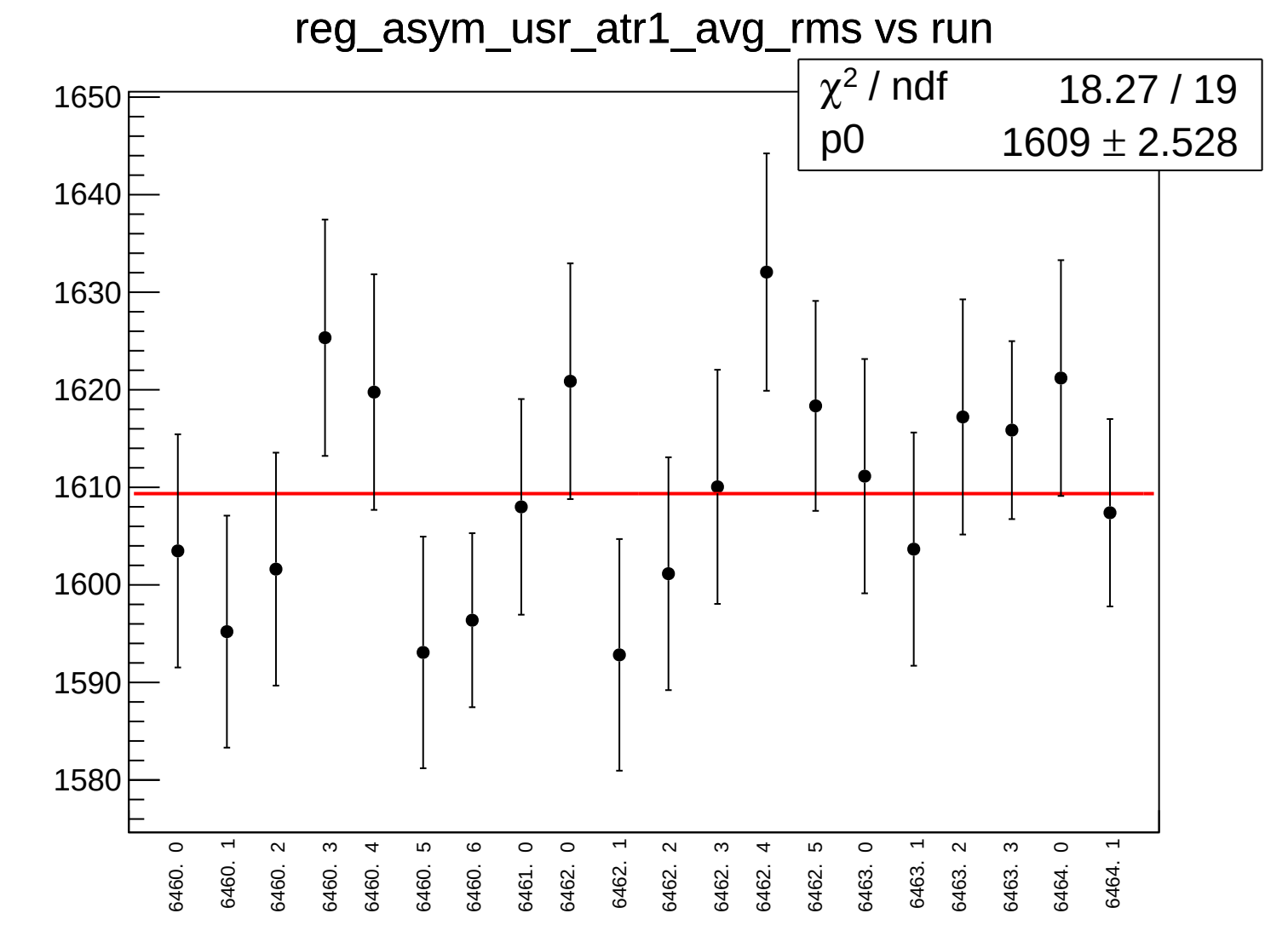


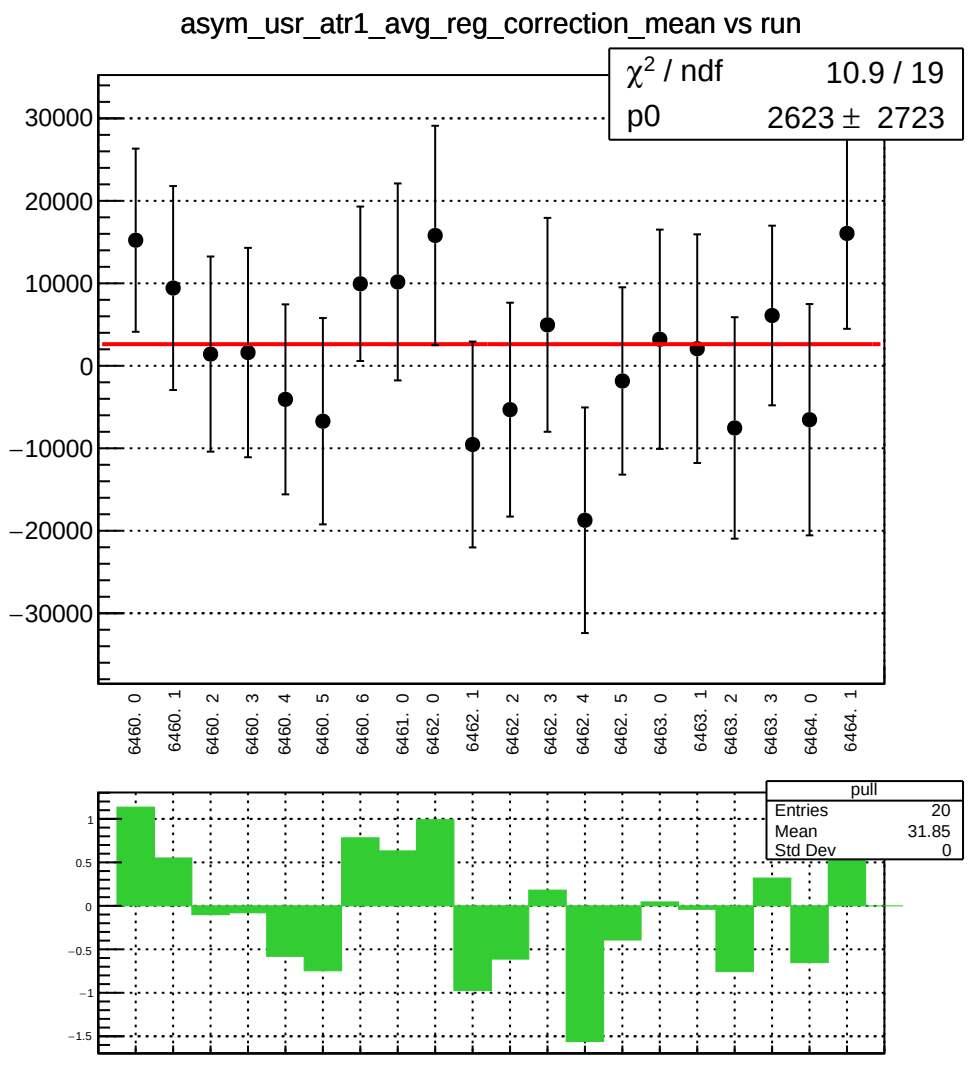

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9387 / 19
p0 264 ± 0.4196
360
340
320
300
280
260
240
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

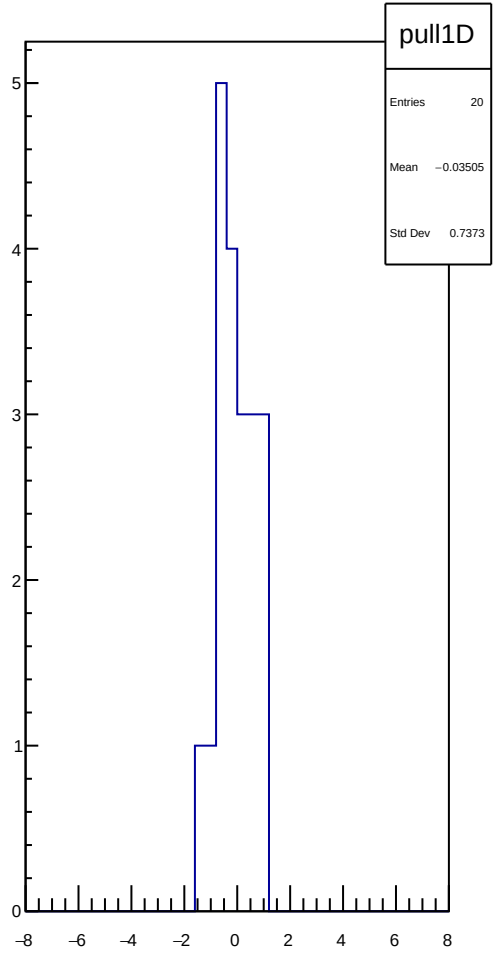

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.22 / 19
p0 −2.551e−13 ± 1.693e−13
8
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −9.159
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.05635
Std Dev 0.9786
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

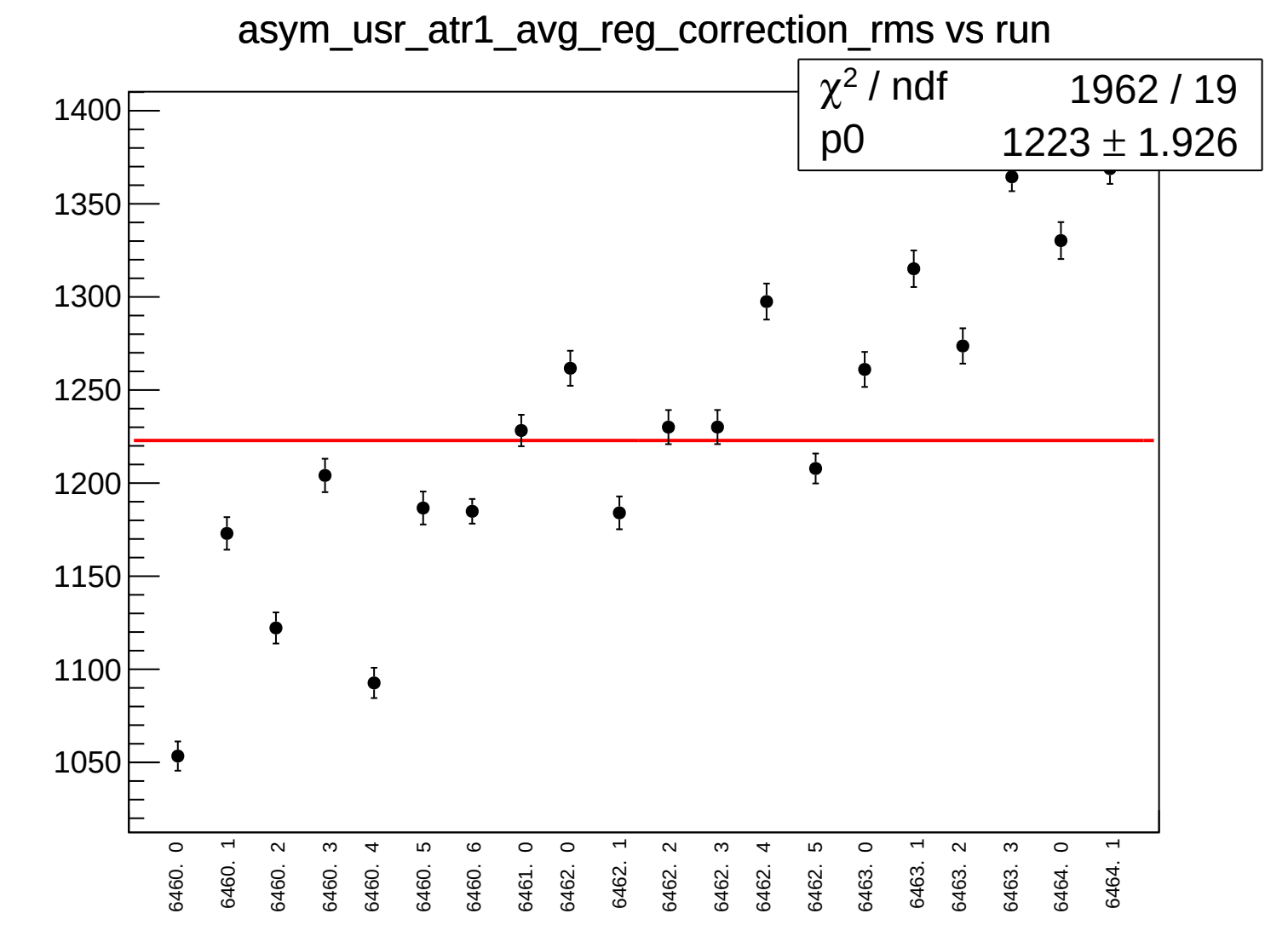

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.161e+04 / 19
p0 6.81e−11 ± 1.197e−13
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

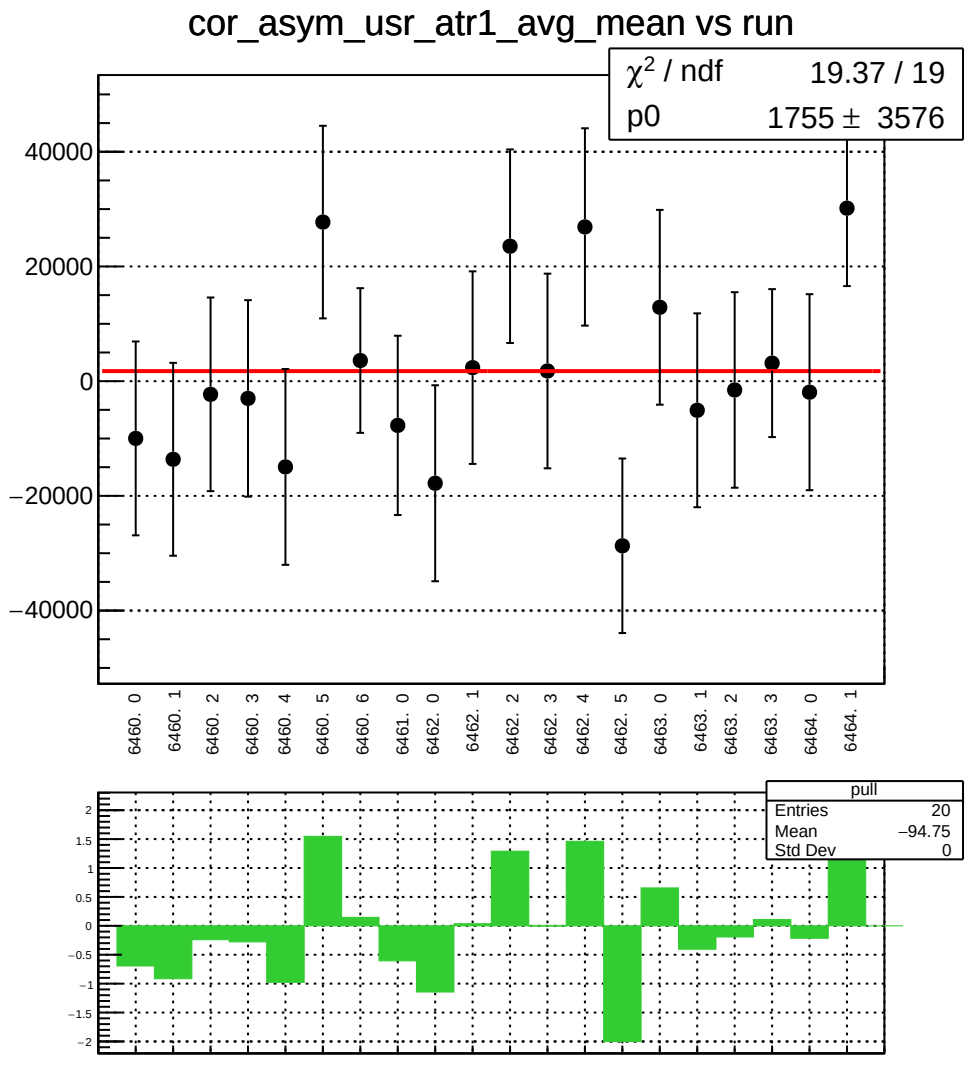

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 19.37 / 19
p0 1754 ± 3576
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −94.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.01656
Std Dev 0.984
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

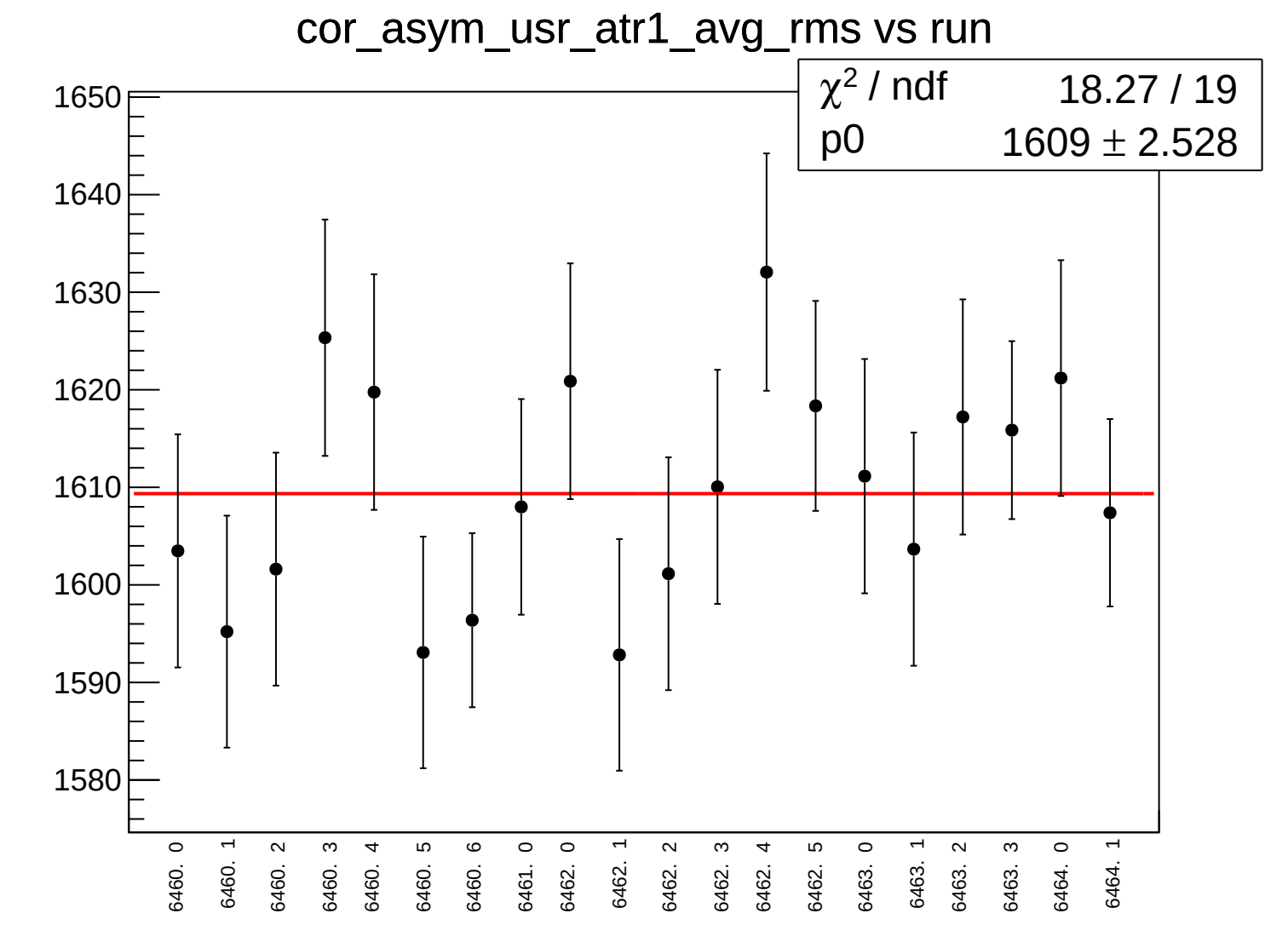

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 18.27 / 19
p0 1609 ± 2.528
1650
1640
1630
1620
1610
1600
1590
1580
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

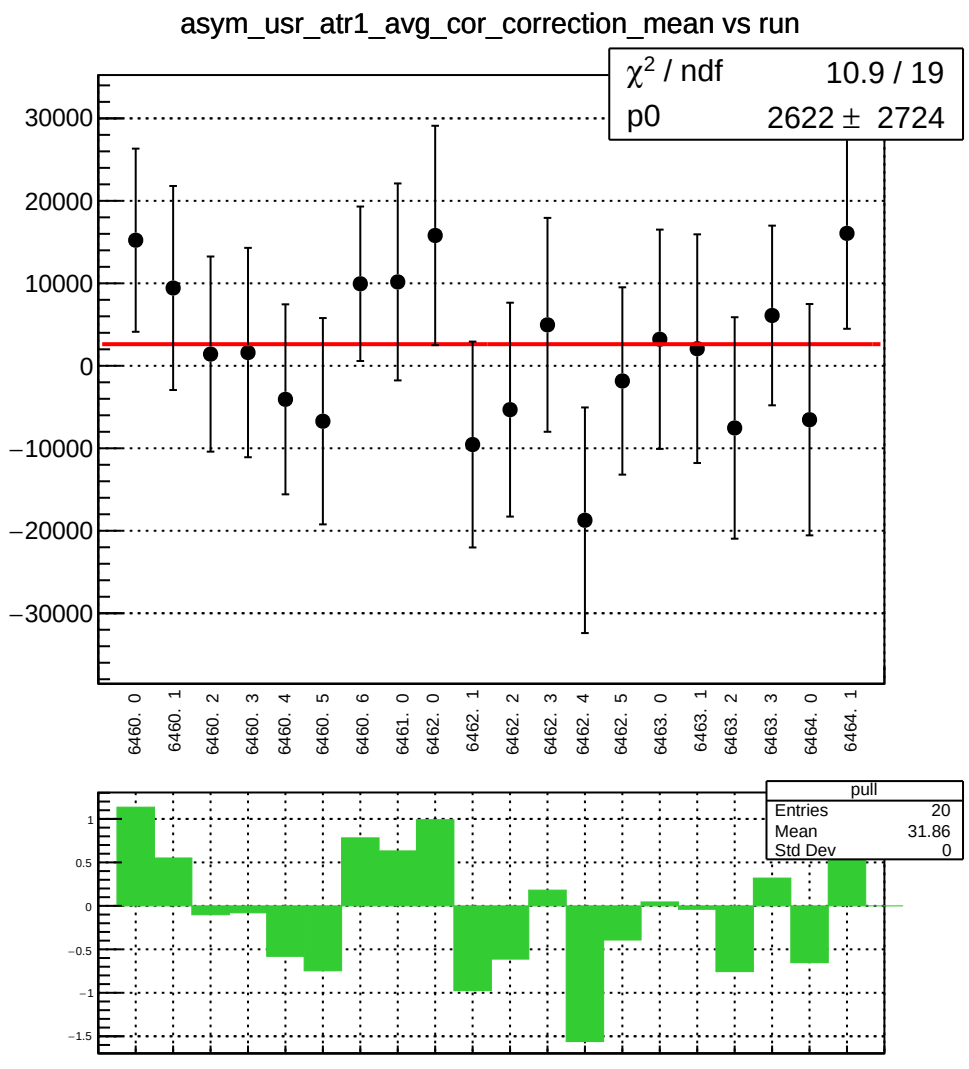

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 10.9 / 19
p0 2623 ± 2723
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.85
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

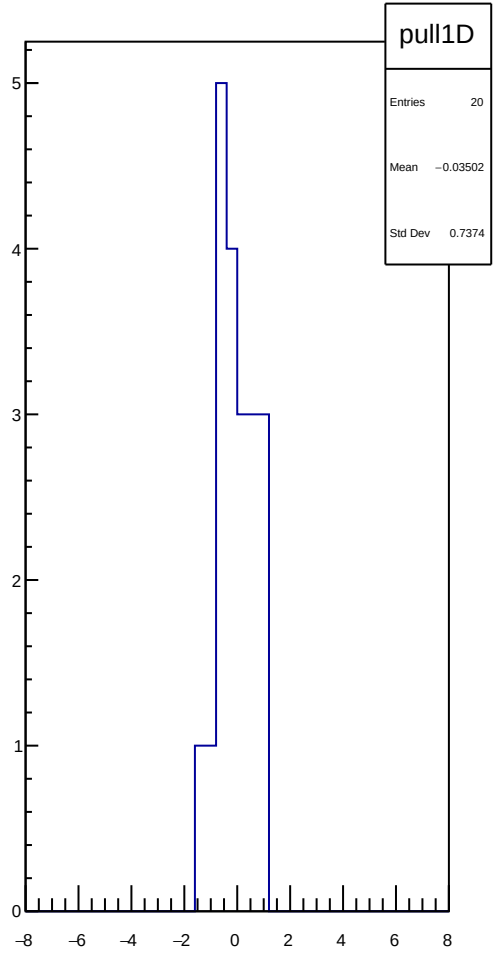

pull1D
Entries 20
Mean −0.03505
Std Dev 0.7373
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

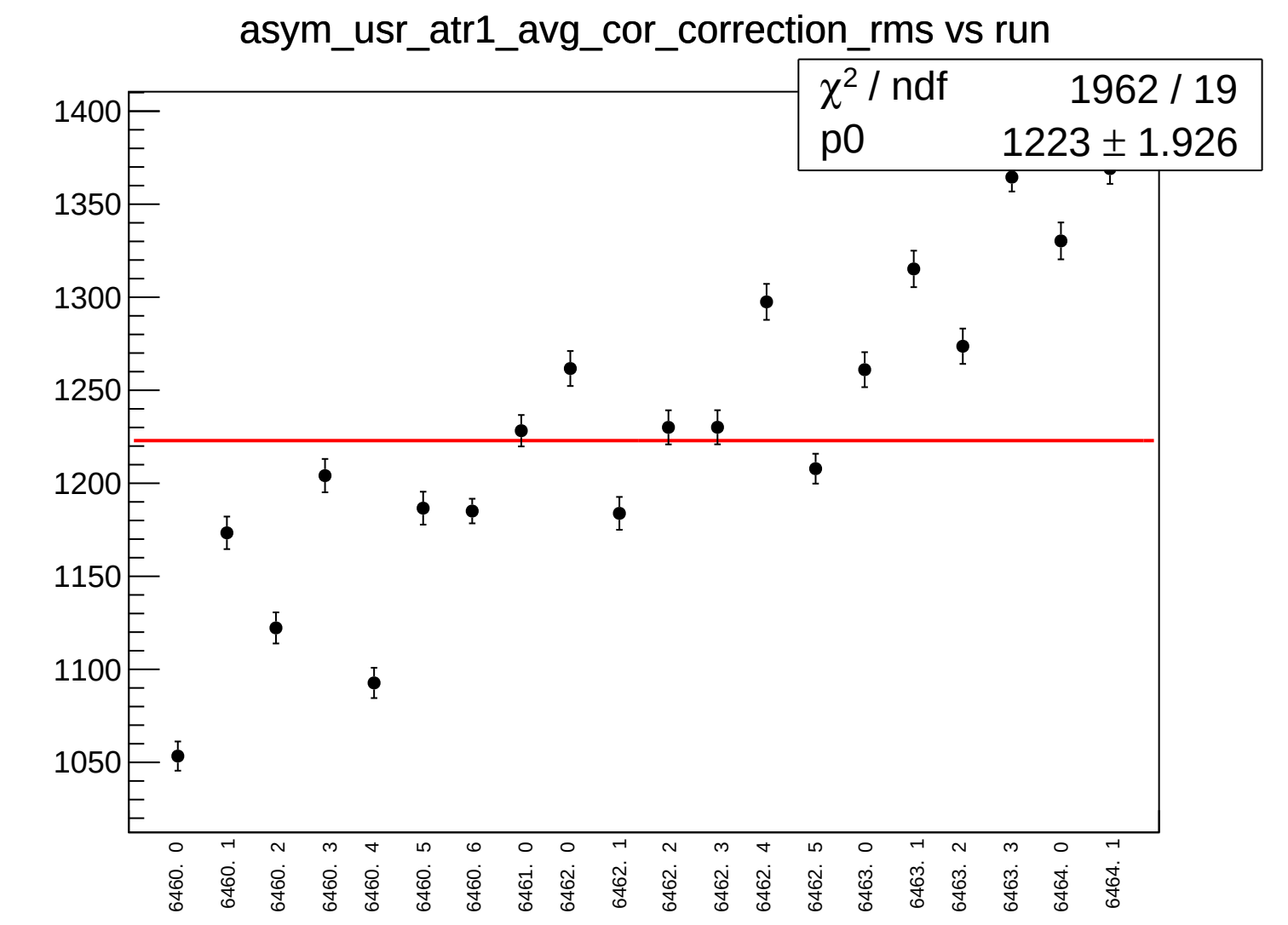

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1962 / 19
p0 1223 ± 1.926
1400
1350
1300
1250
1200
1150
1100
1050
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

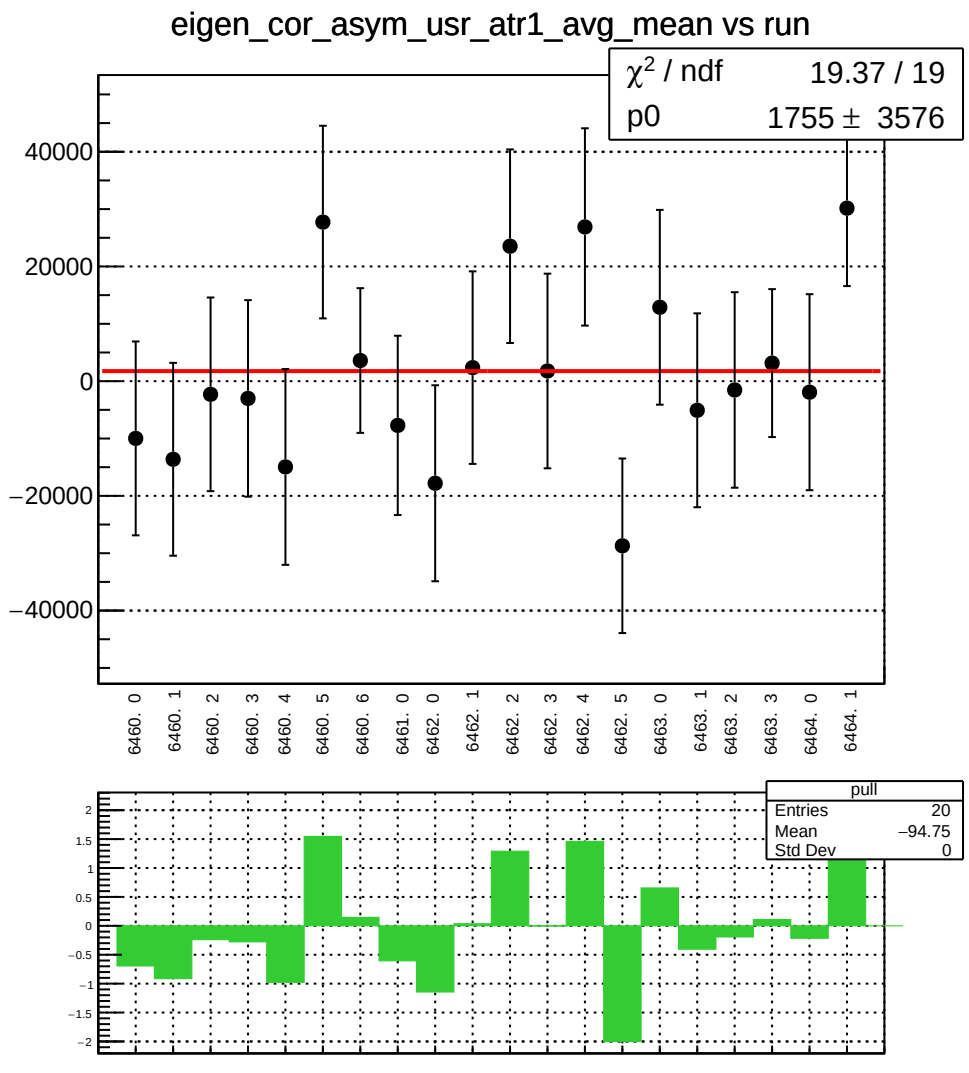

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 19.37 / 19
p0 1755 ± 3576
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −94.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.01657
Std Dev 0.984
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

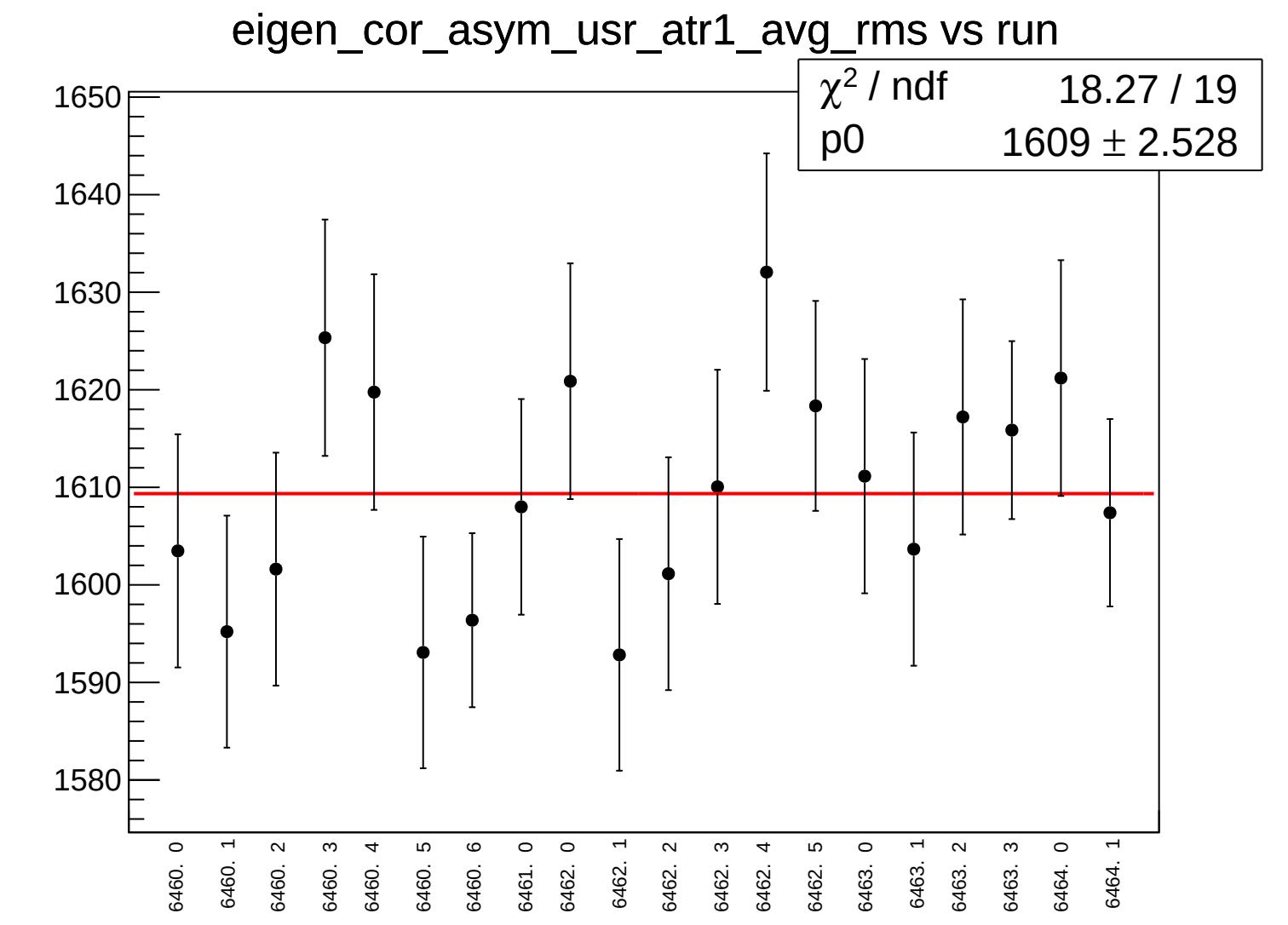

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 18.27 / 19
p0 1609 ± 2.528
1650
1640
1630
1620
1610
1600
1590
1580
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

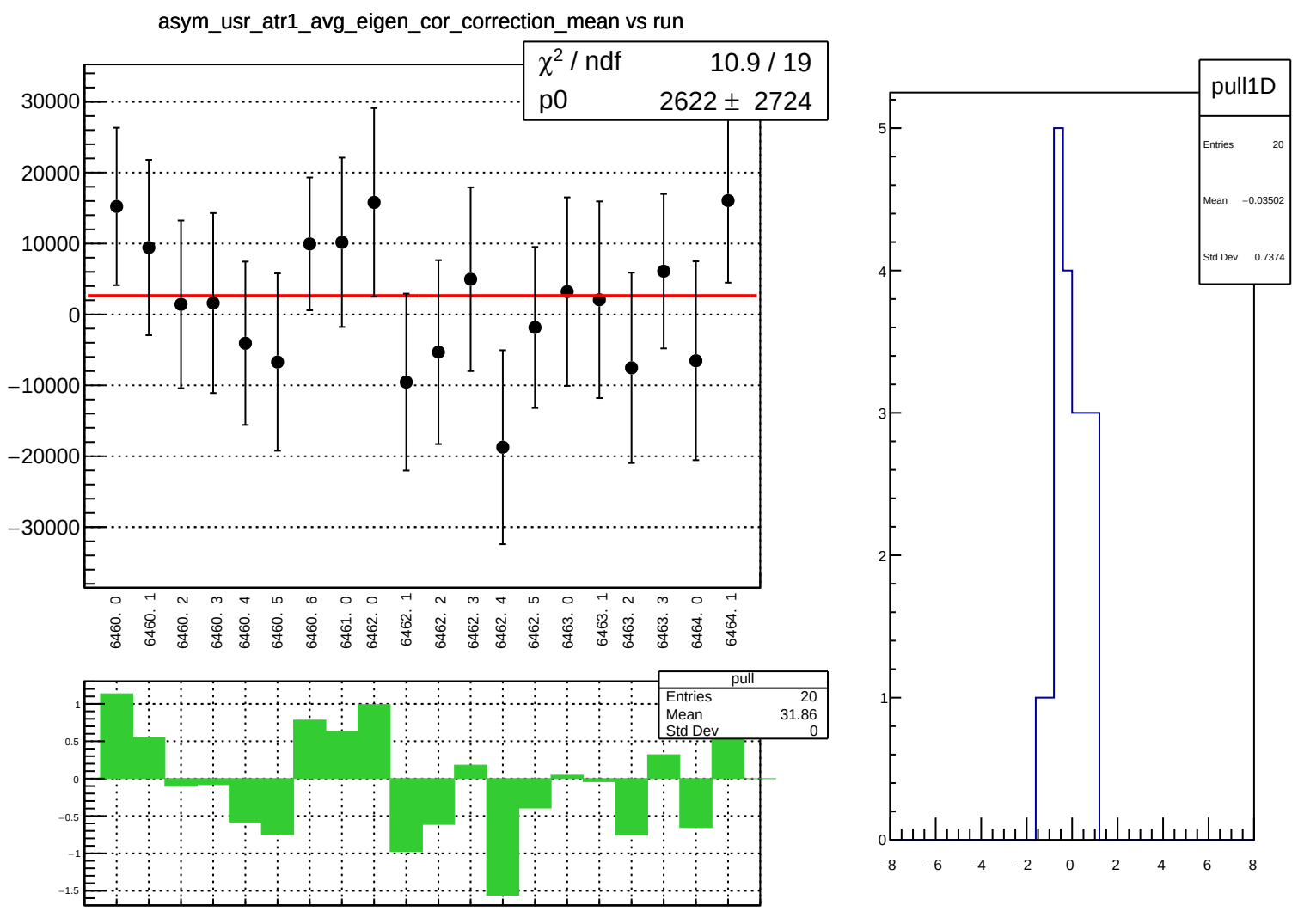

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 10.9 / 19
p0 2622 ± 2724
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.86
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

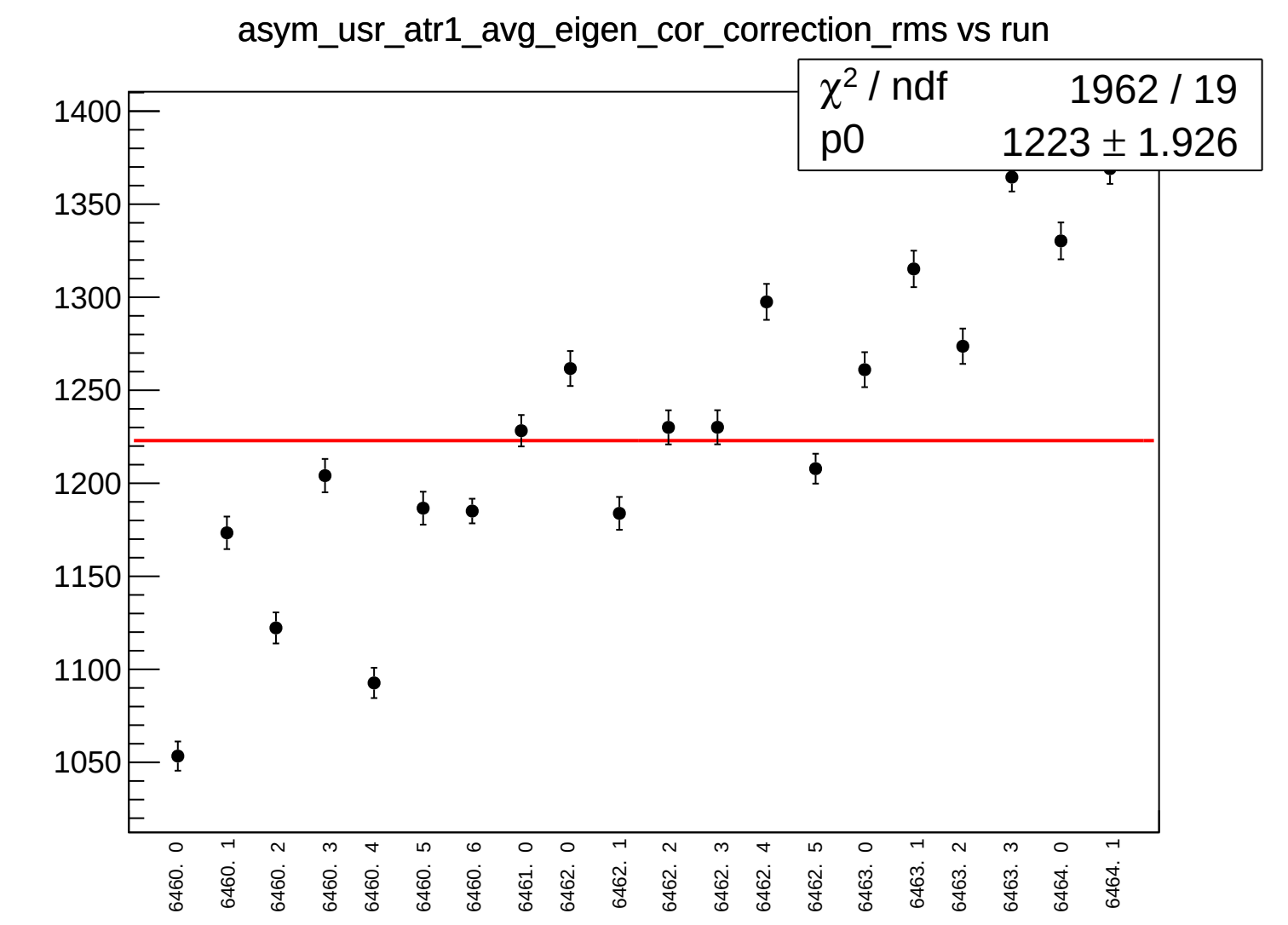

pull1D
Entries 20
Mean −0.03502
Std Dev 0.7374
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

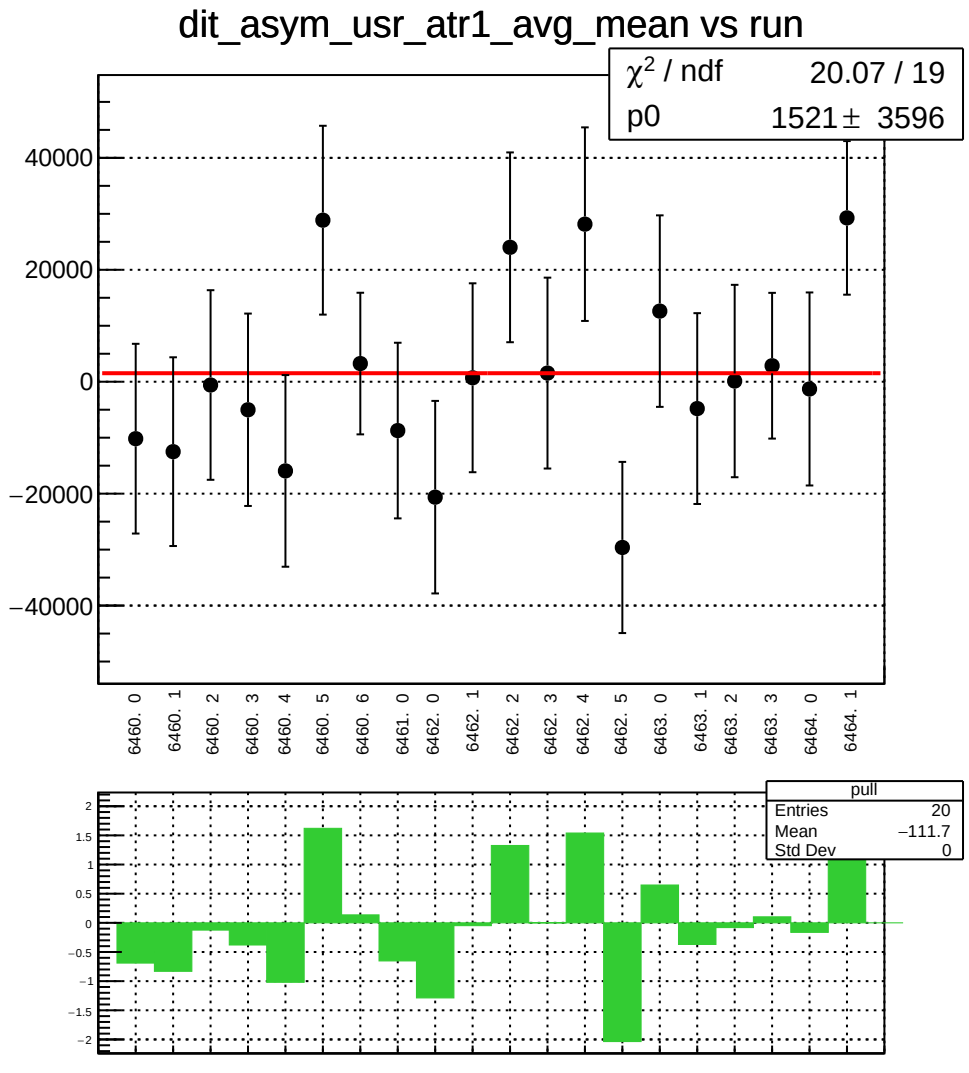

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1962 / 19
p0 1223 ± 1.926
1400
1350
1300
1250
1200
1150
1100
1050
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

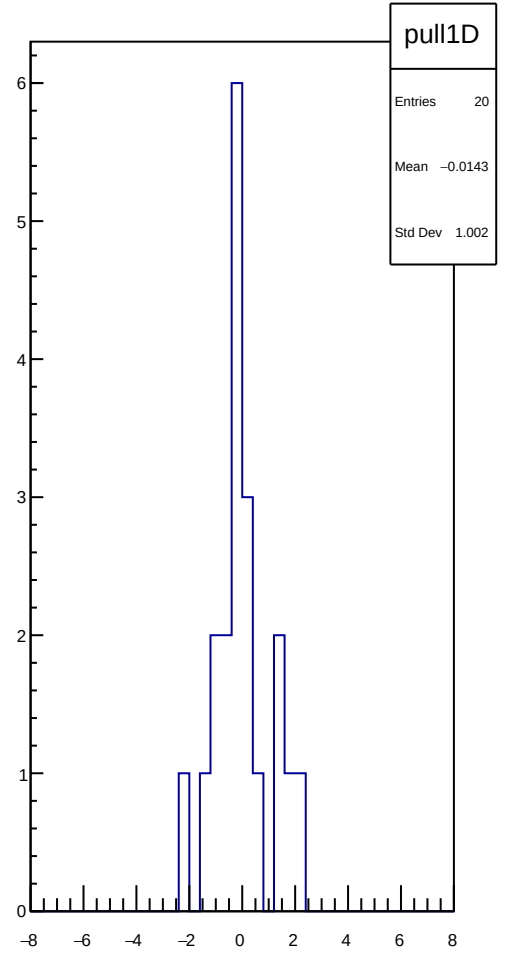

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 19.37 / 19
p0 1755 ± 3576
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −94.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.01657
Std Dev 0.984
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

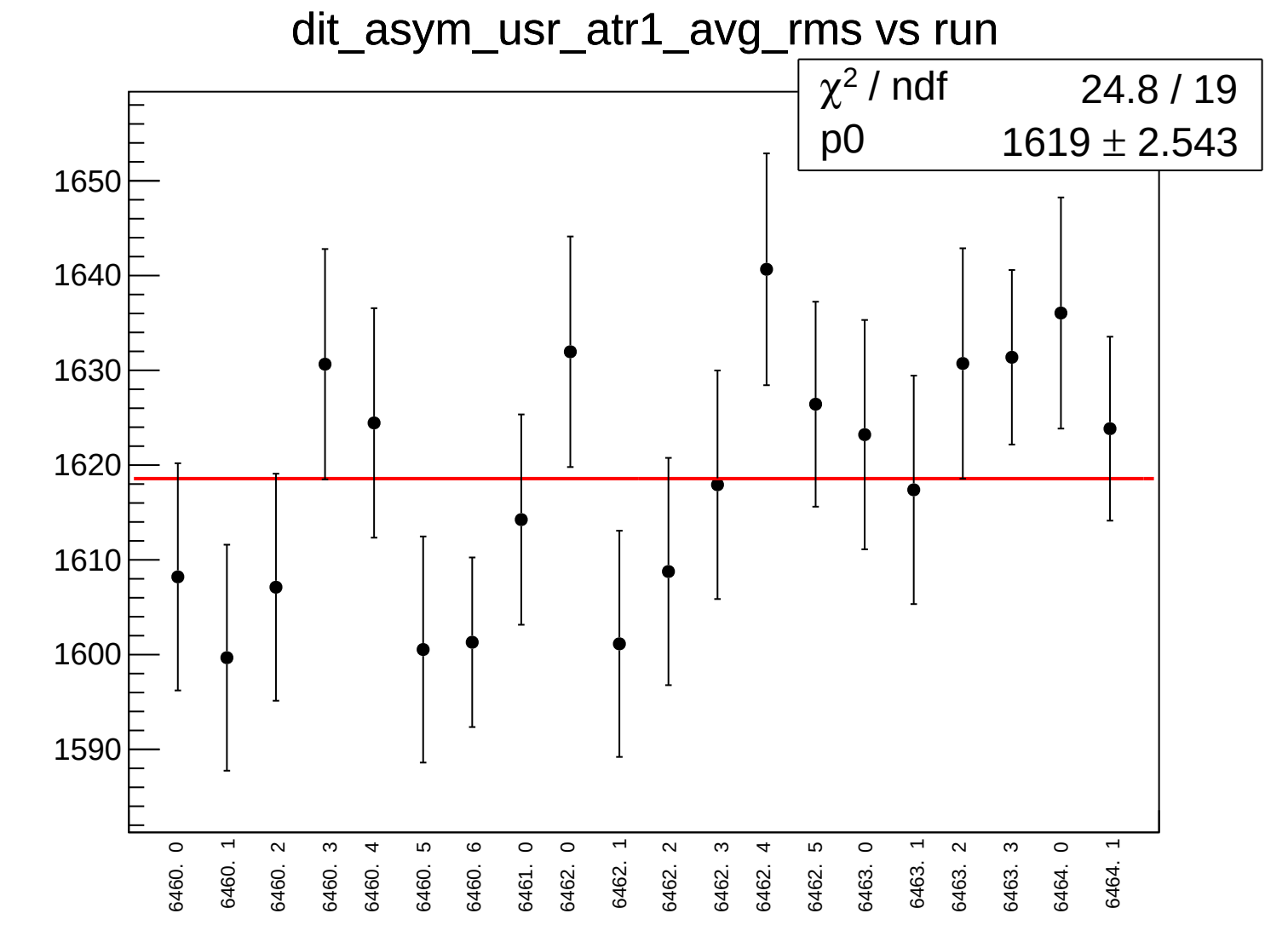

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 18.27 / 19
p0 1609 ± 2.528
1650
1640
1630
1620
1610
1600
1590
1580
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

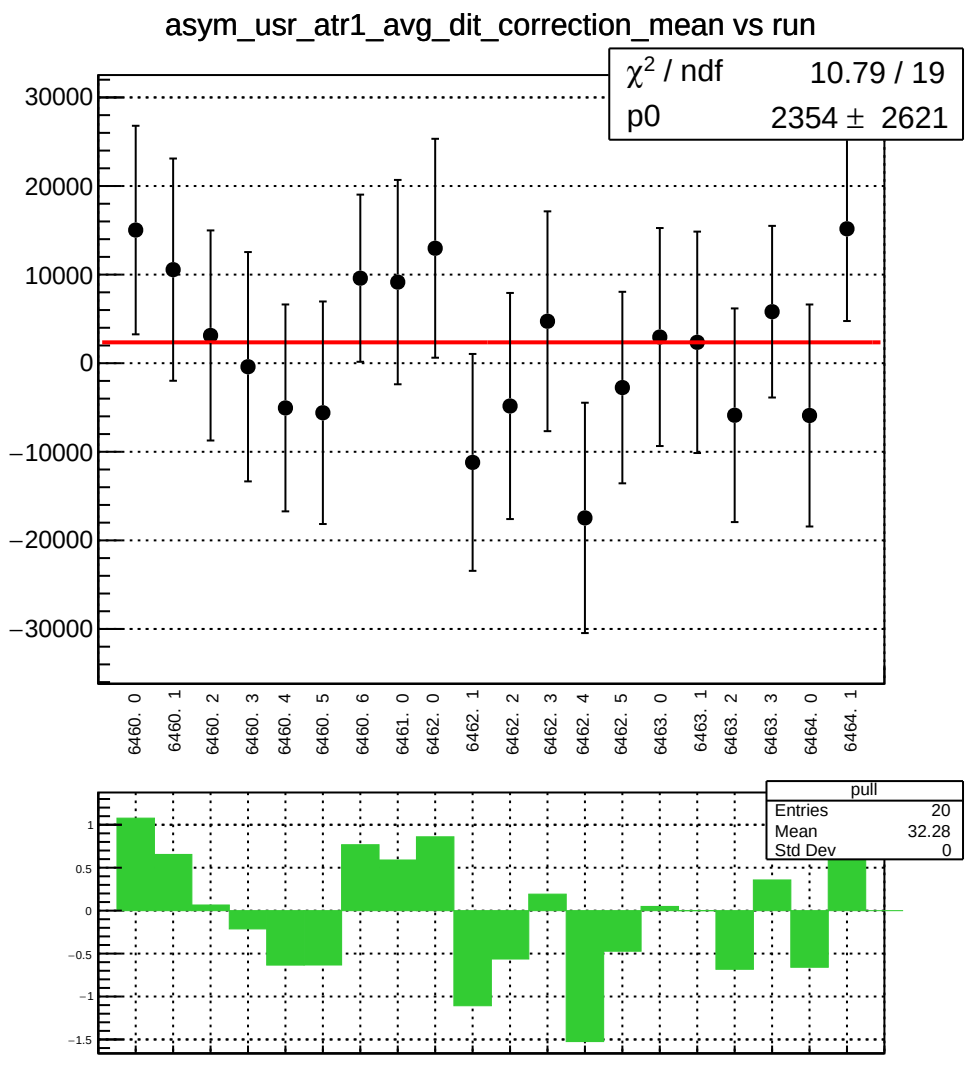

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.9 / 19
p0 2622 ± 2724
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.86
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03502
Std Dev 0.7374
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

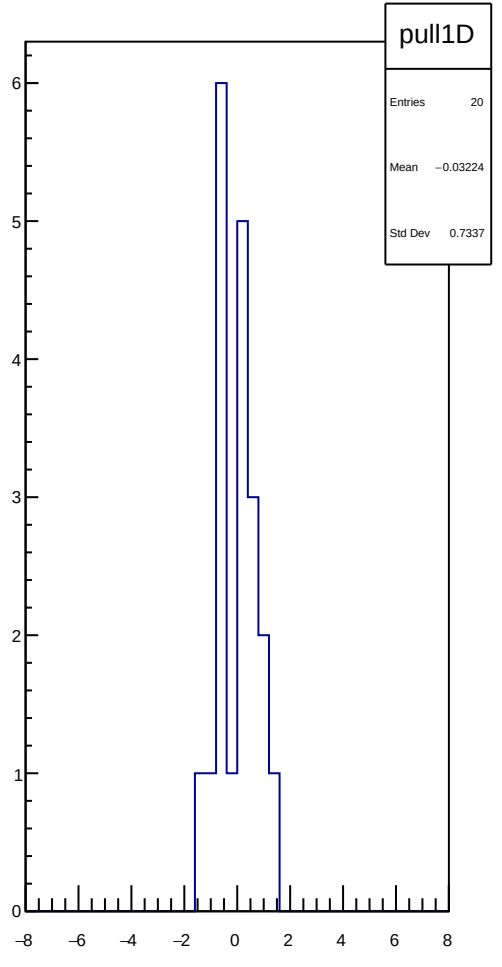

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1962 / 19
p0 1223 ± 1.926
1400
1350
1300
1250
1200
1150
1100
1050
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

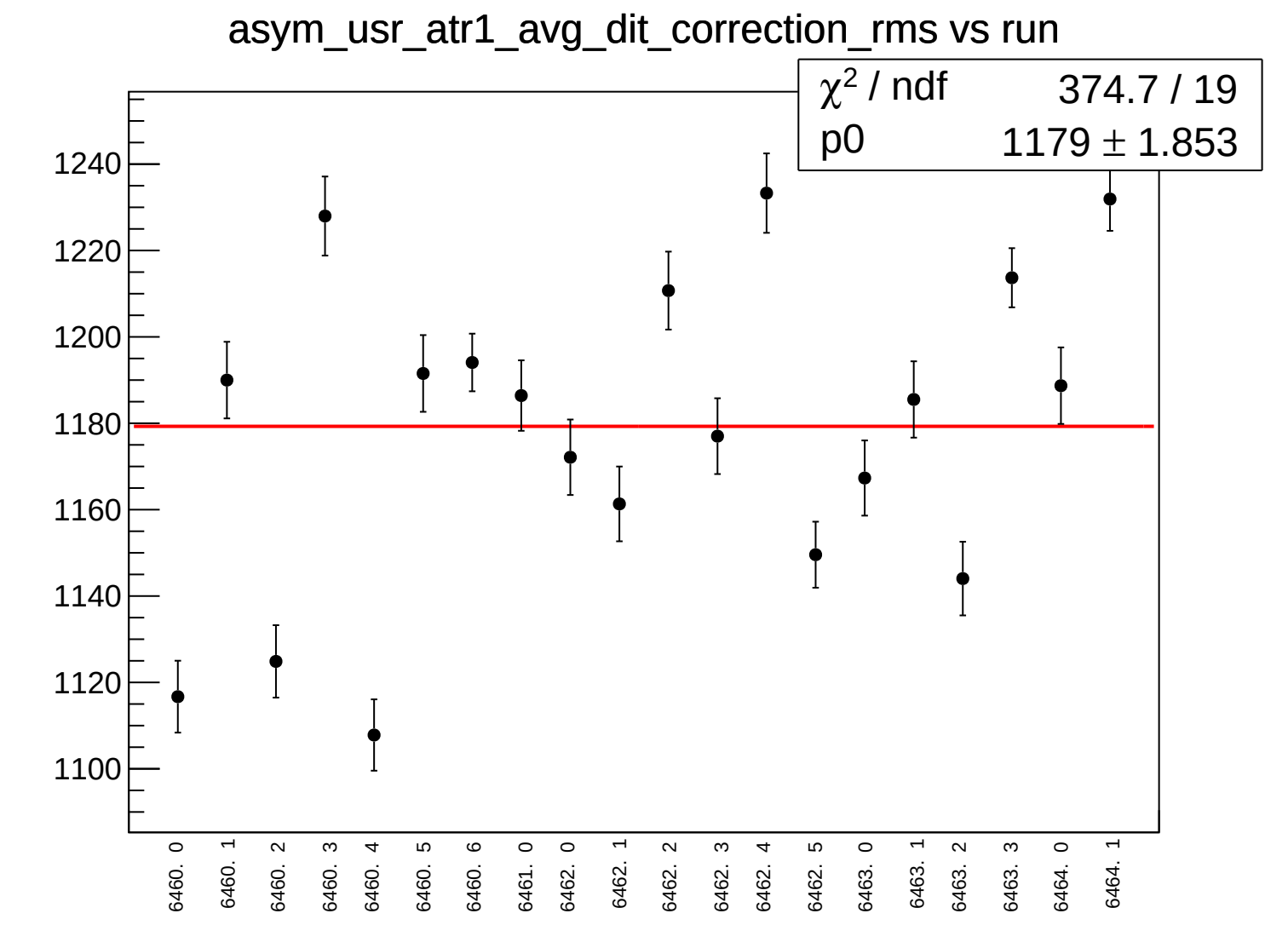

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 20.07 / 19
p0 1521 ± 3596
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −111.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

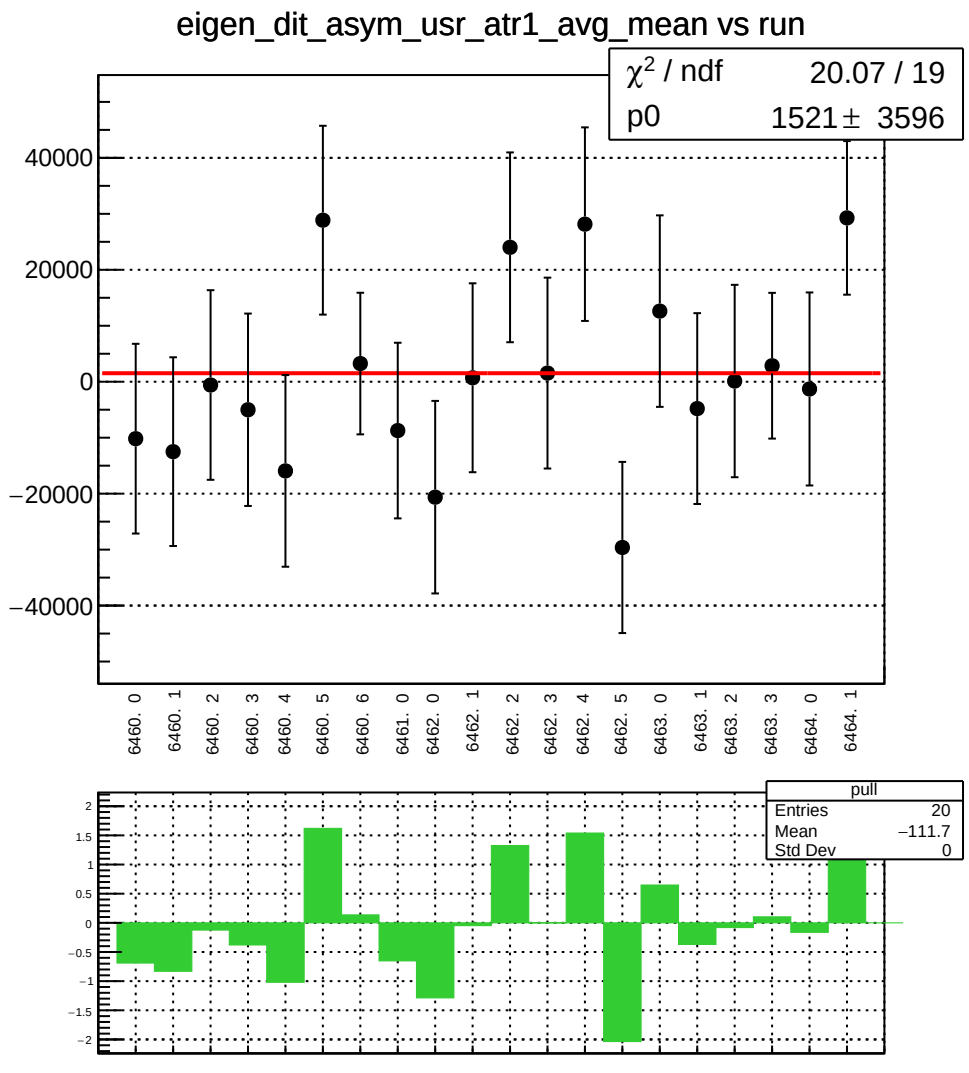

pull1D
Entries 20
Mean −0.0143
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

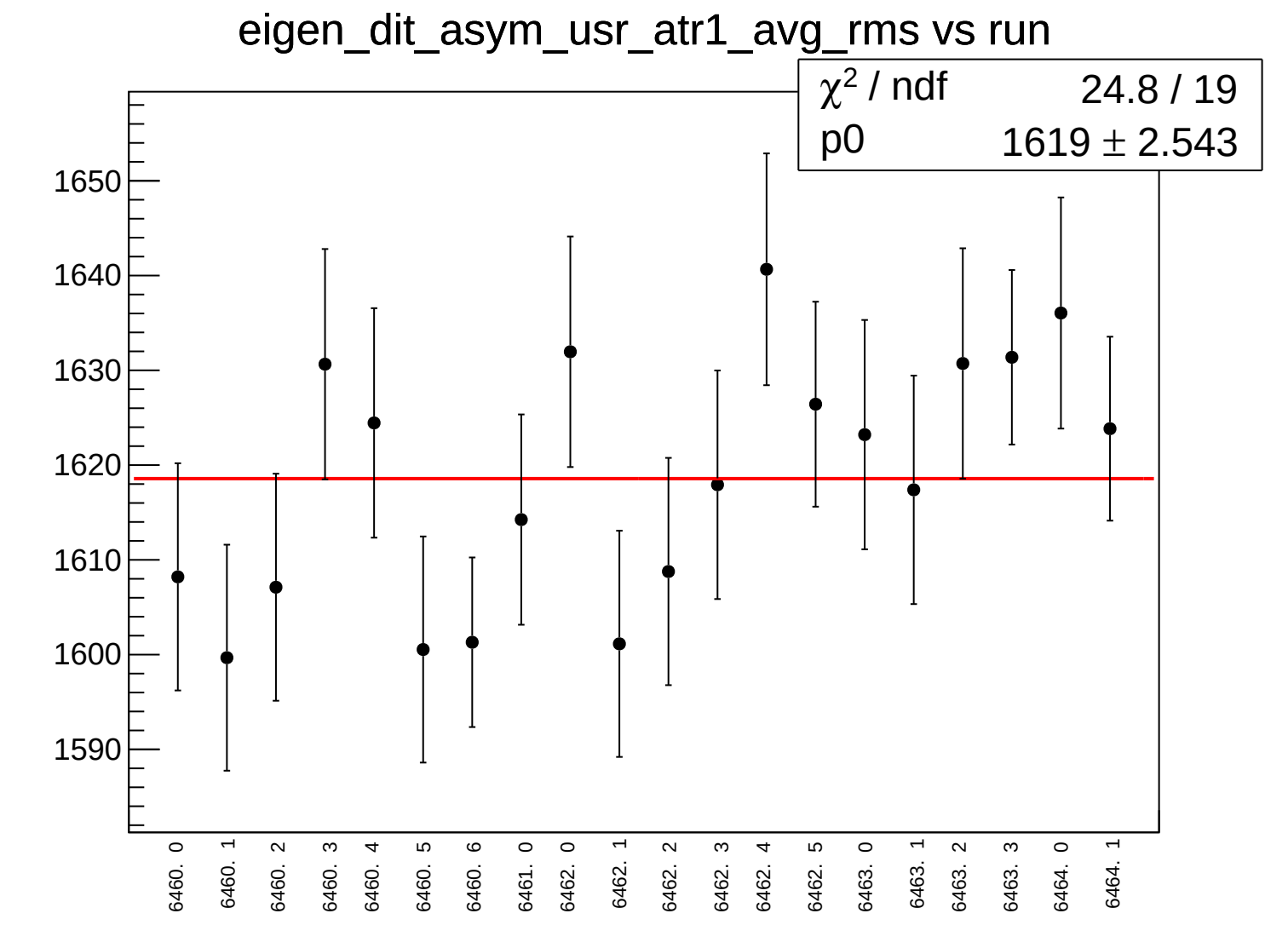

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 24.8 / 19
p0 1619 ± 2.543
1650
1640
1630
1620
1610
1600
1590
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

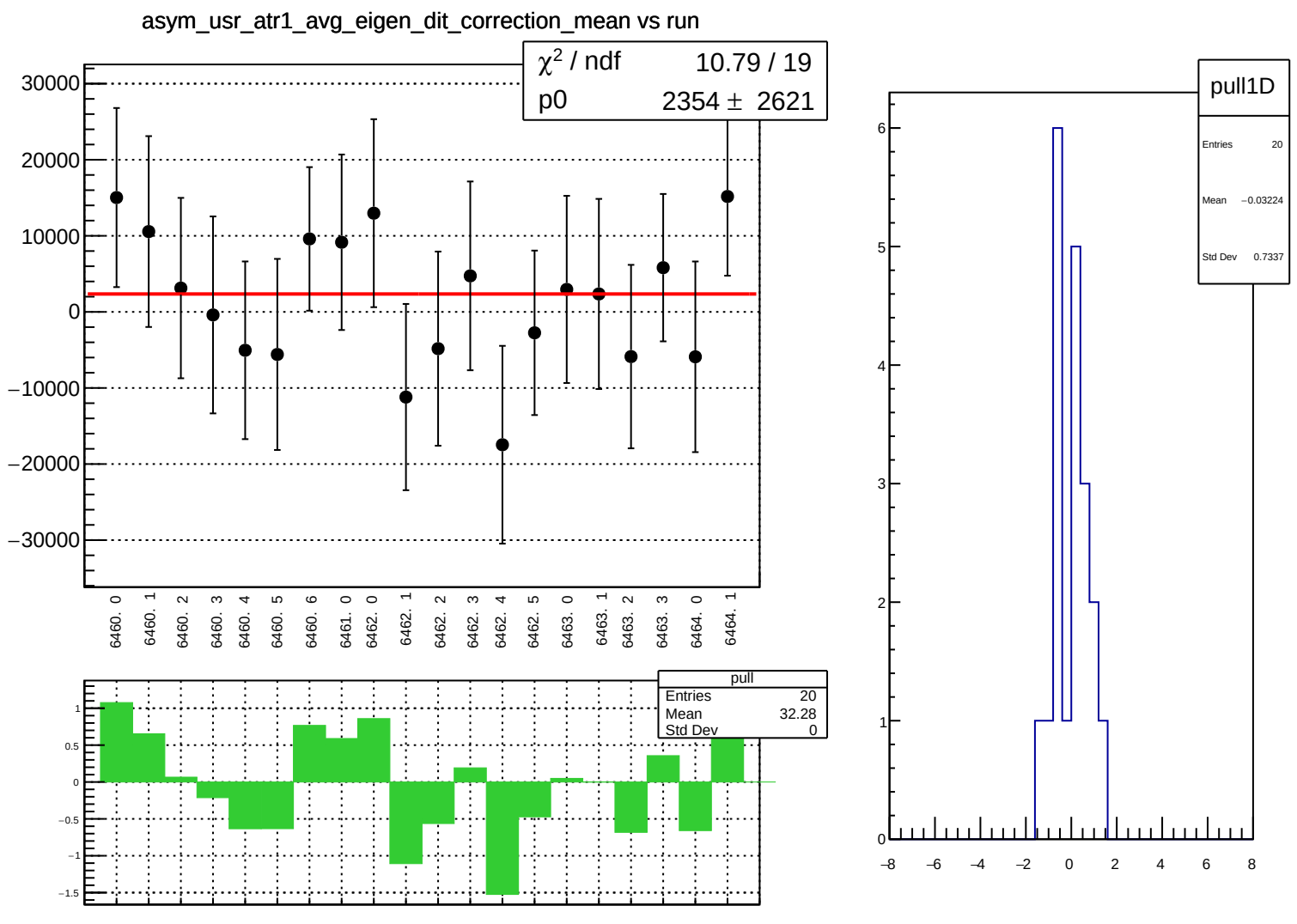

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 10.79 / 19
p0 2354 ± 2621
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

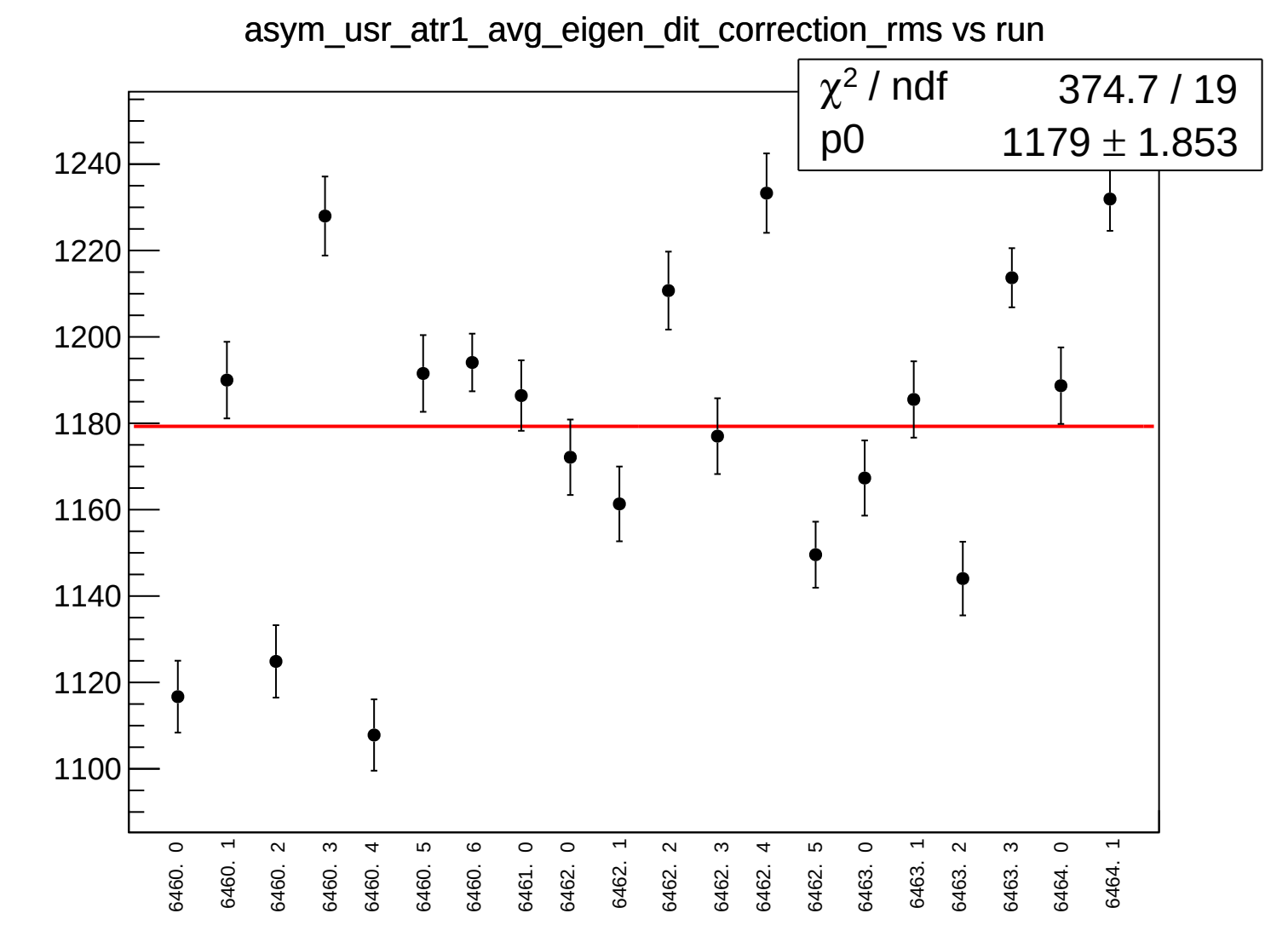

pull1D
Entries 20
Mean −0.03224
Std Dev 0.7337
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

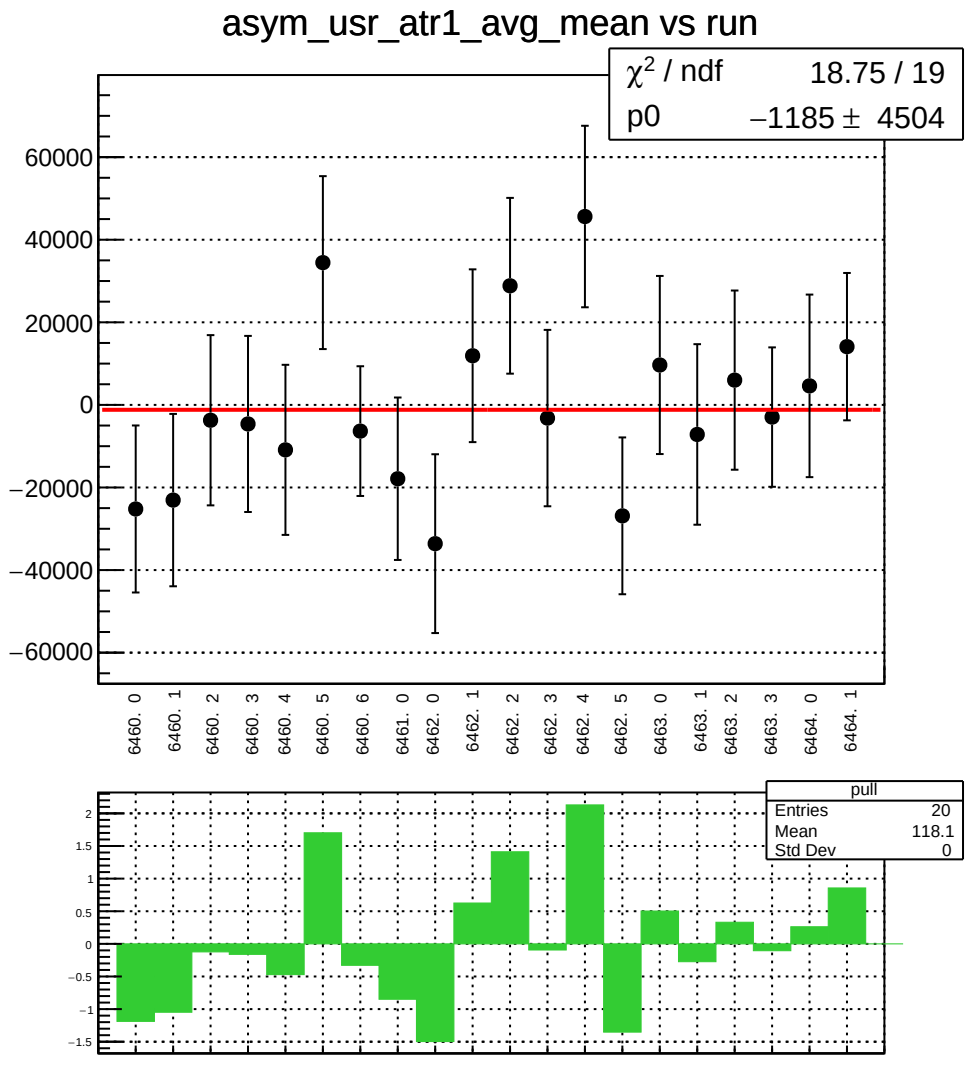

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 374.7 / 19
p0 1179 ± 1.853
1240
1220
1200
1180
1160
1140
1120
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

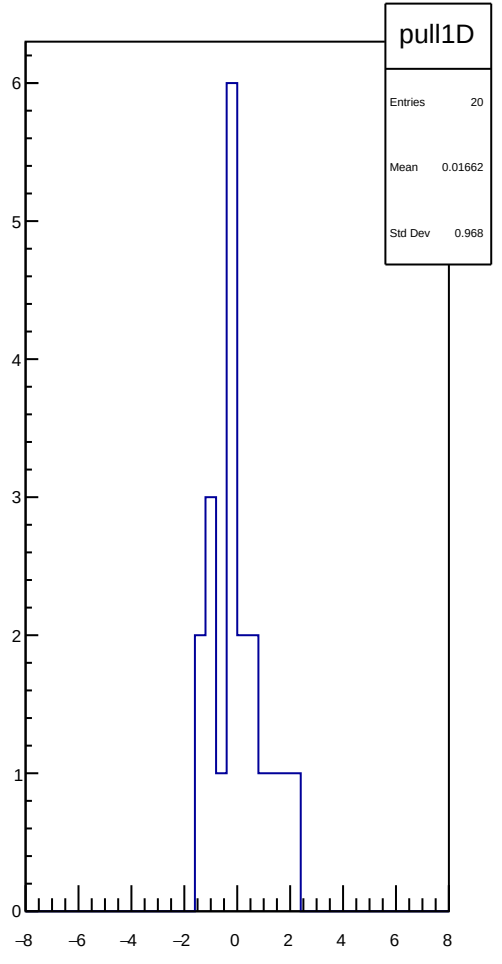

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 20.07 / 19
p0 1521 ± 3596
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −111.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.0143
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

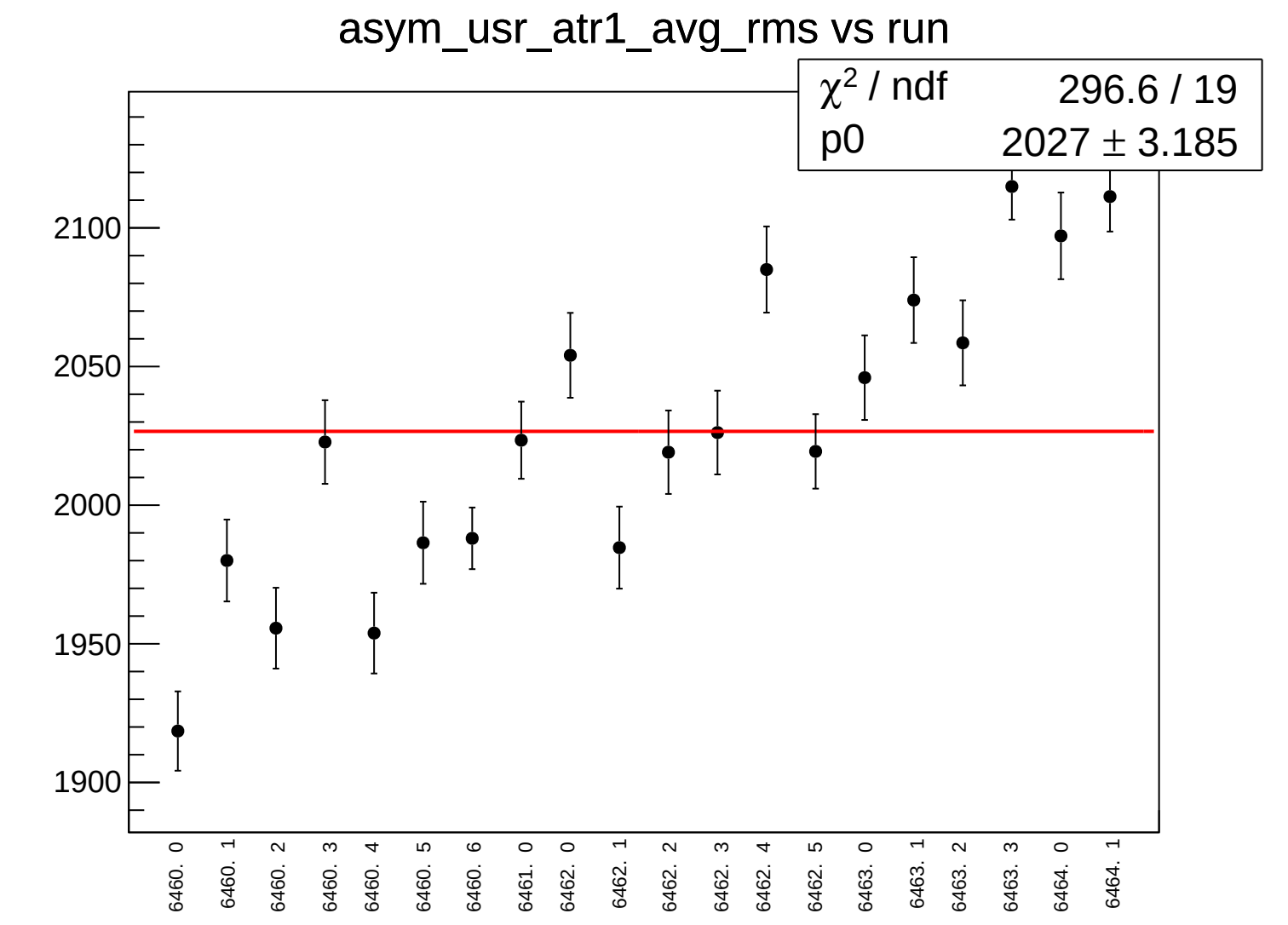

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 24.8 / 19
p0 1619 ± 2.543
1650
1640
1630
1620
1610
1600
1590
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

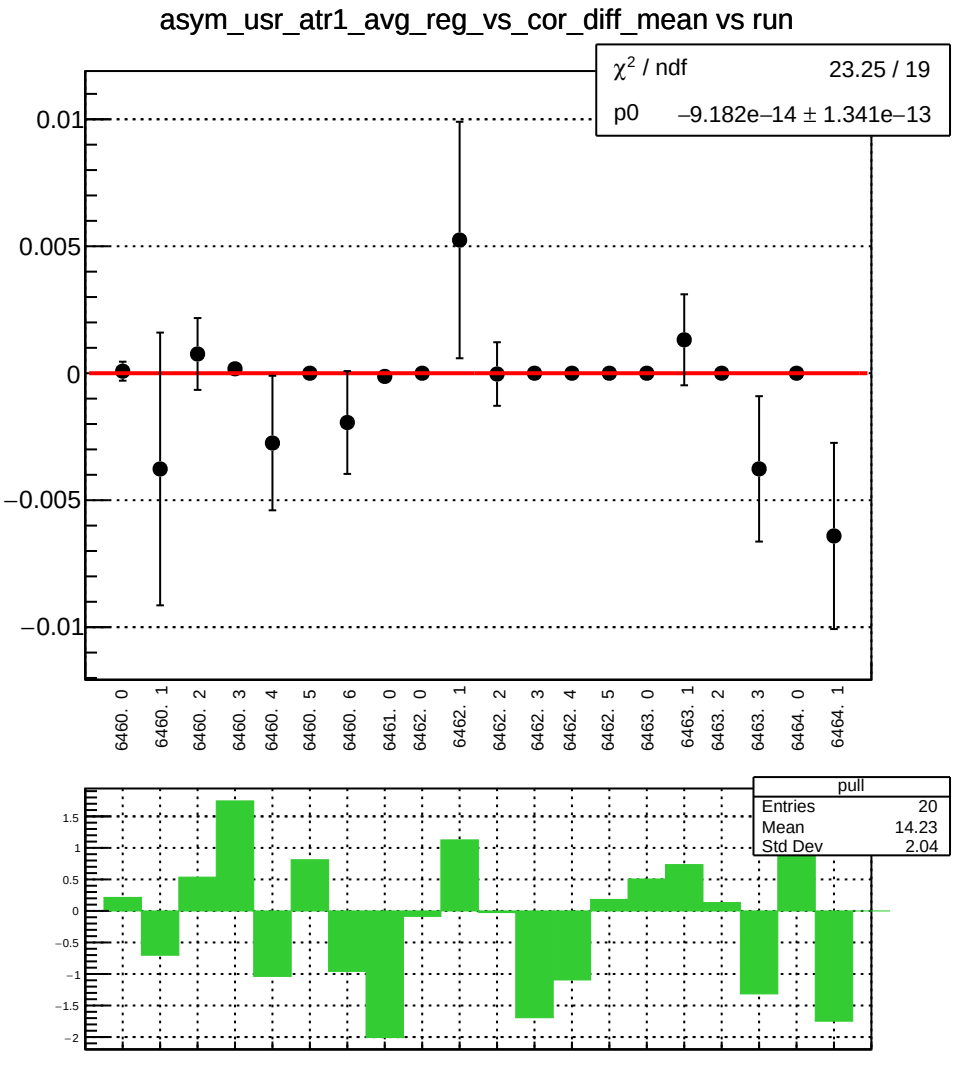

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.79 / 19
p0 2354 ± 2621
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03224
Std Dev 0.7337
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

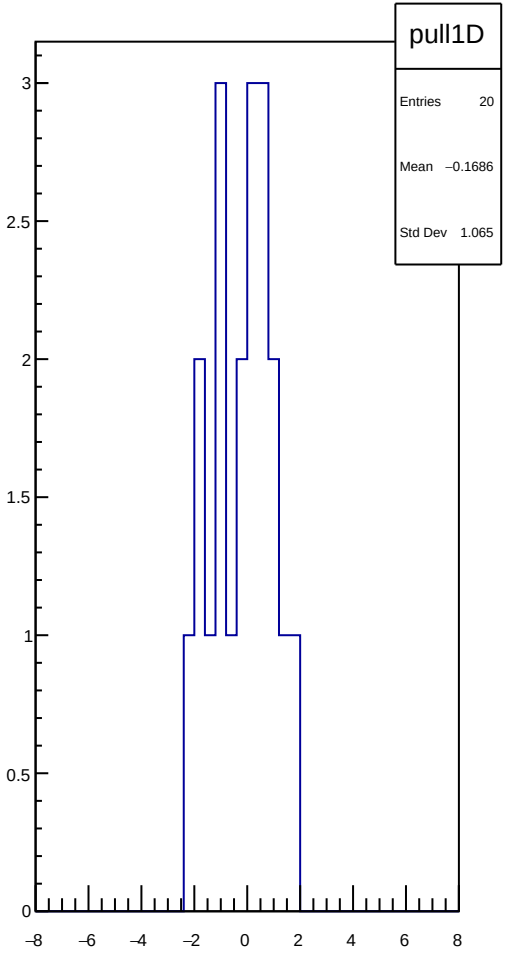

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 374.7 / 19
p0 1179 ± 1.853
1240
1220
1200
1180
1160
1140
1120
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

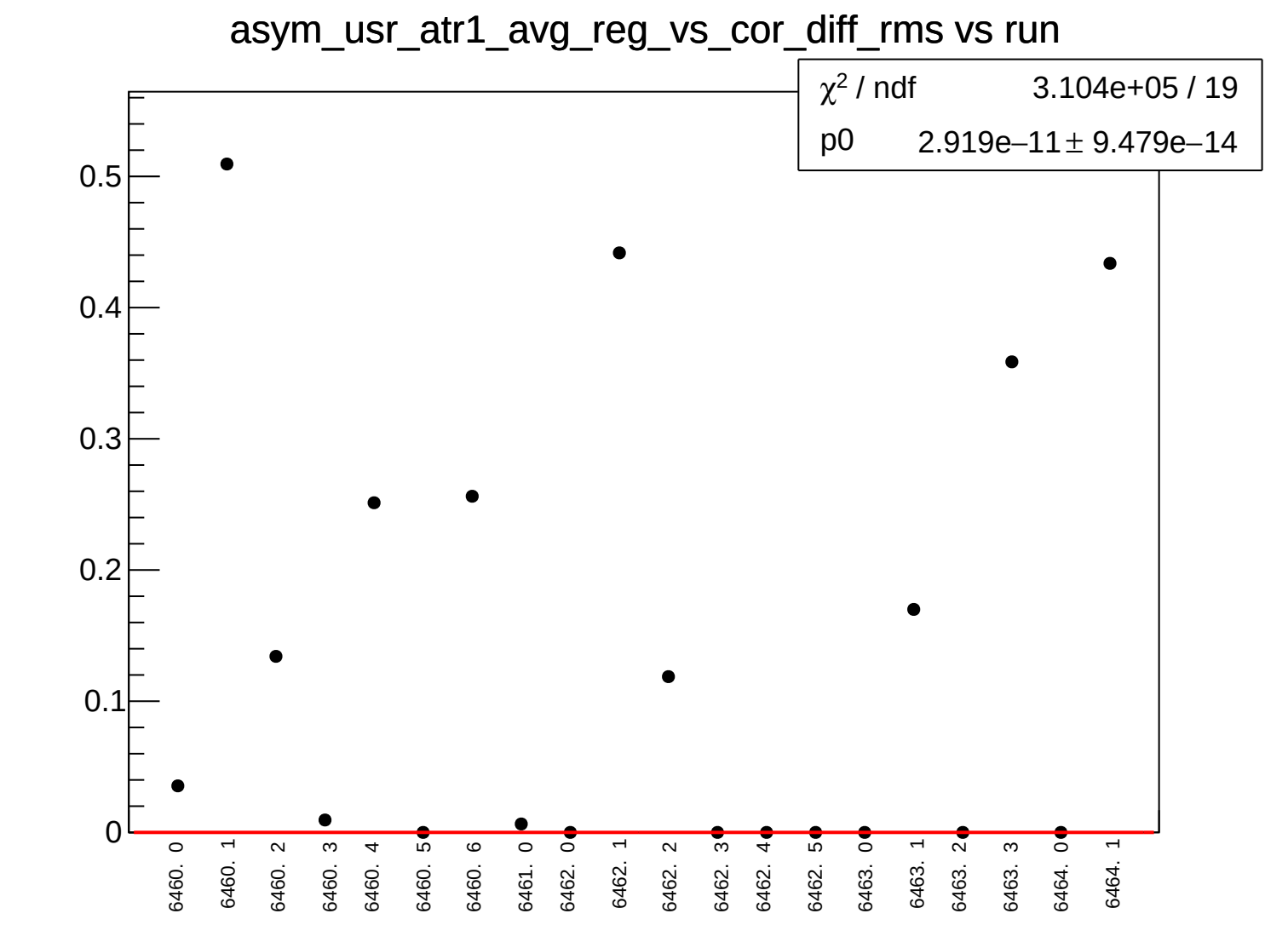

asym_usr_atr1_avg_mean vs run
χ² / ndf 18.75 / 19
p0 −1185 ± 4504
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 118.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

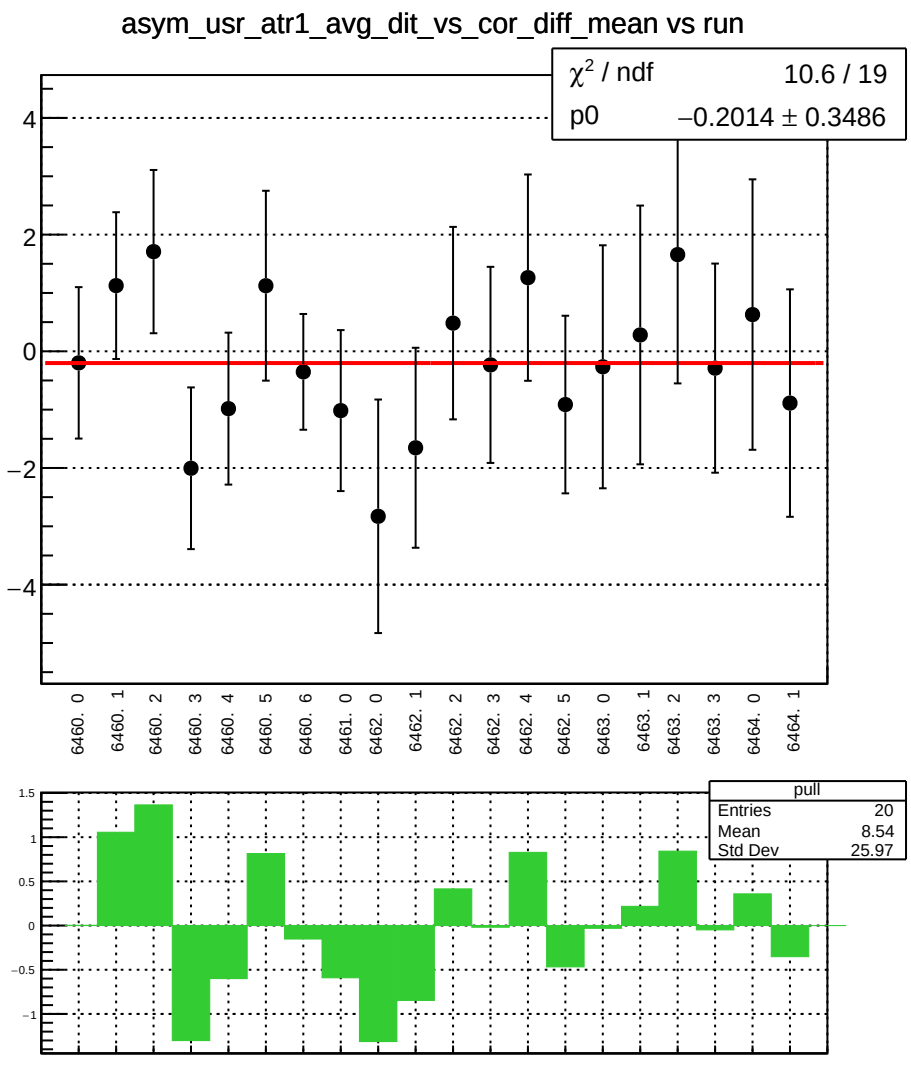

pull1D
Entries 20
Mean 0.01662
Std Dev 0.968
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

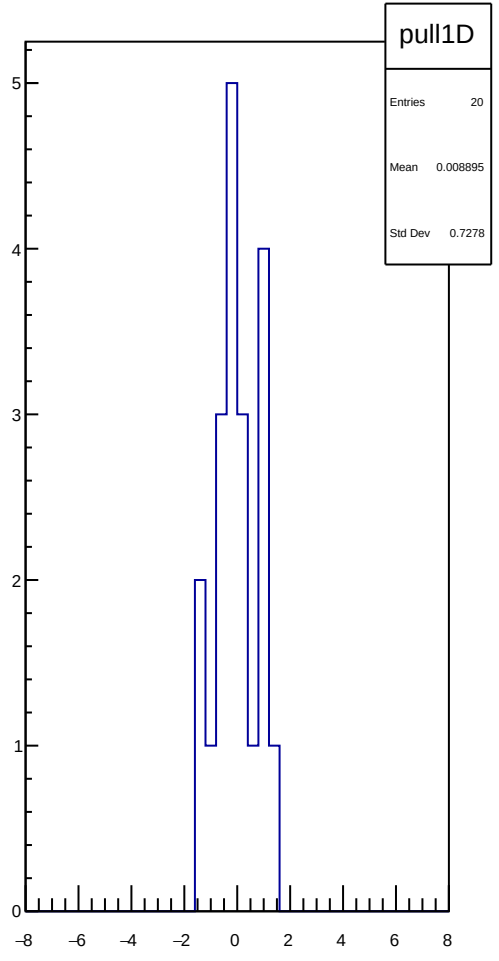

asym_usr_atr1_avg_rms vs run
χ² / ndf 296.6 / 19
p0 2027 ± 3.185
2100
2050
2000
1950
1900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

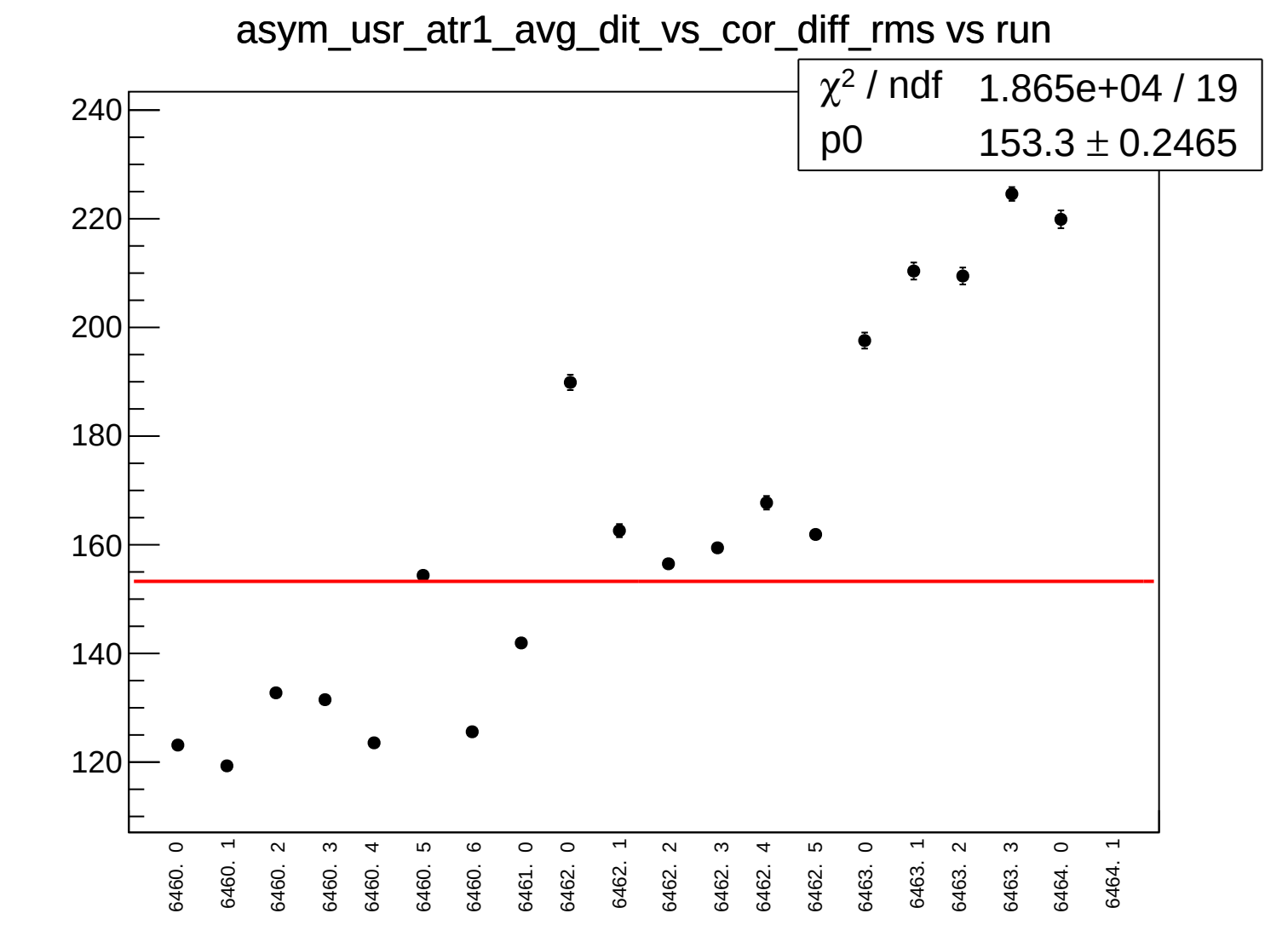

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.25 / 19
p0 −9.182e−14 ± 1.341e−13
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 14.23
Std Dev 2.04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

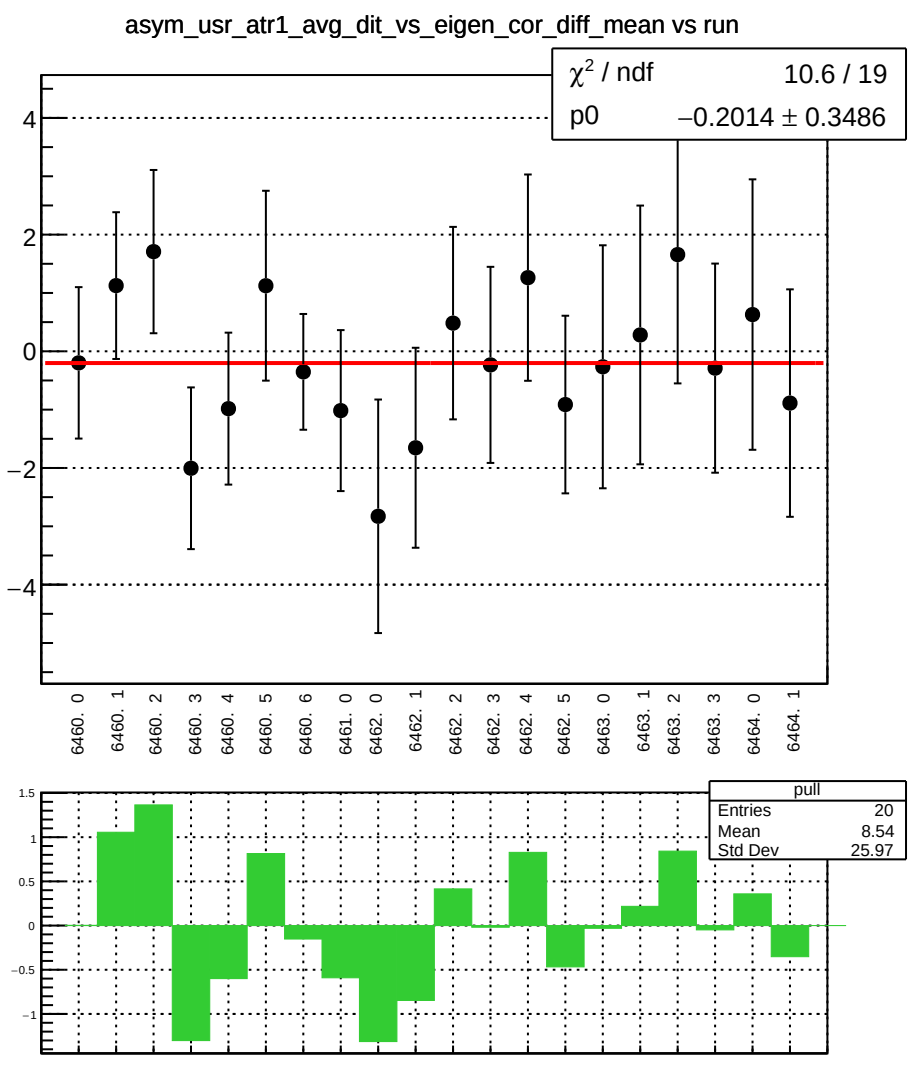

pull1D
Entries 20
Mean −0.1686
Std Dev 1.065
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

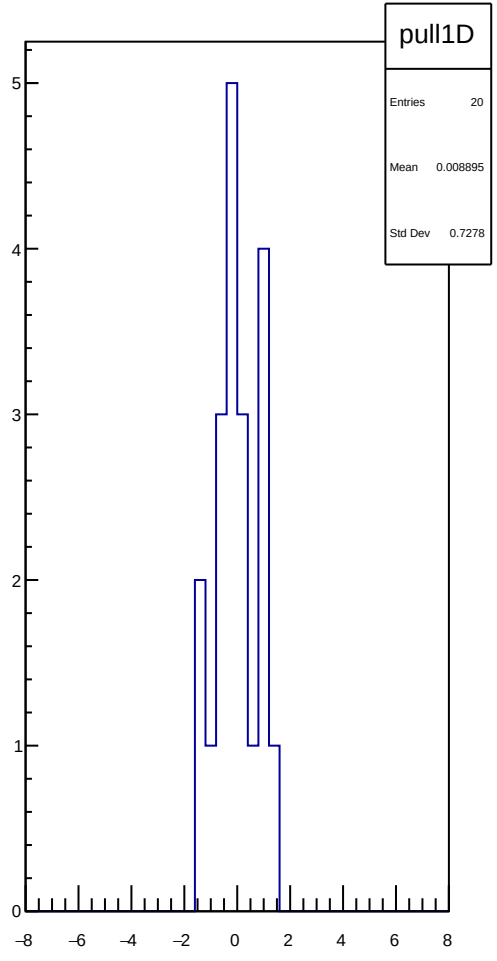

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.104e+05 / 19
p0 2.919e−11 ± 9.479e−14
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

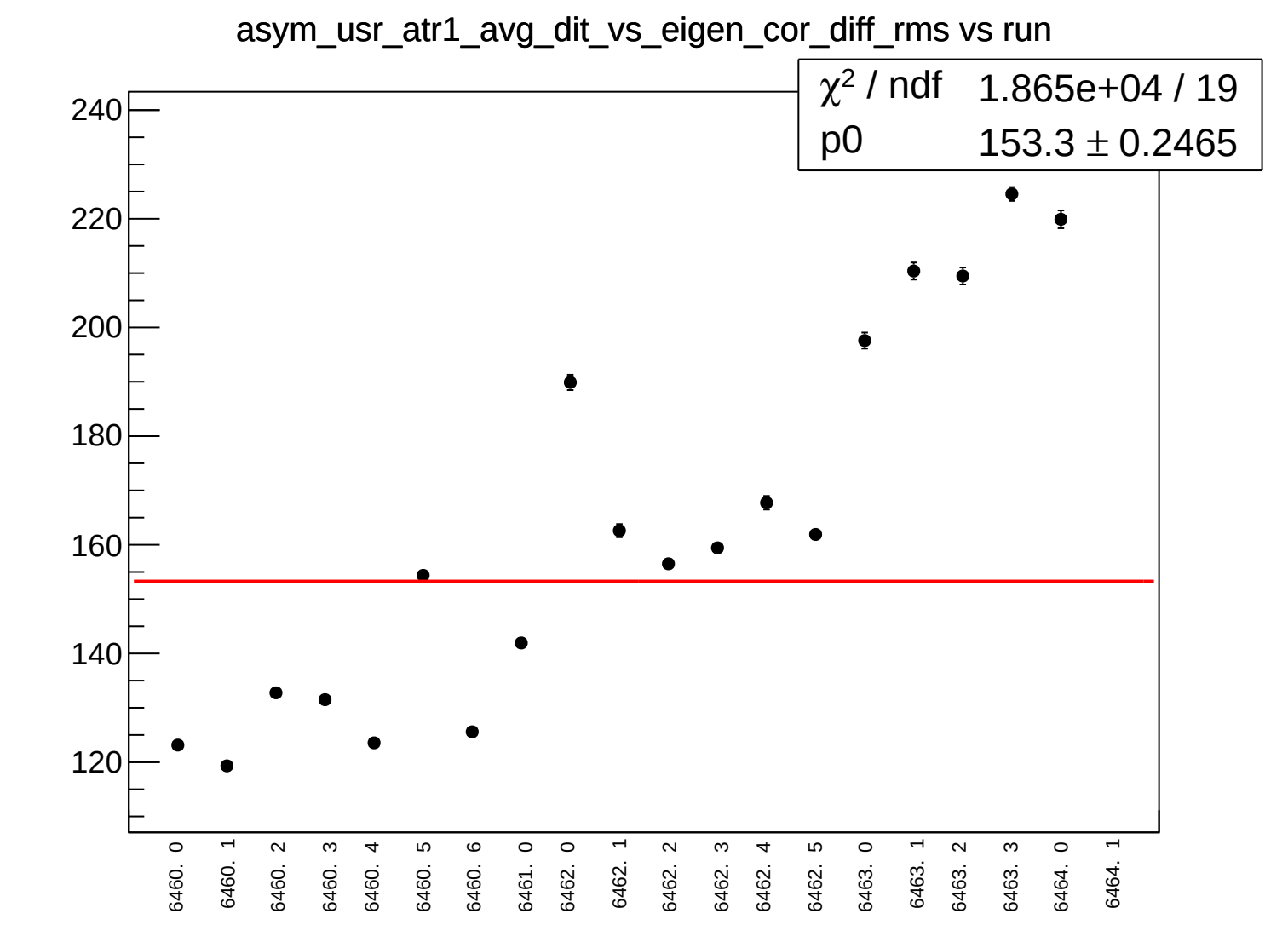

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 10.6 / 19
p0 −0.2014 ± 0.3486
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.54
Std Dev 25.97
1.5
1
0.5
0
−0.5
−1

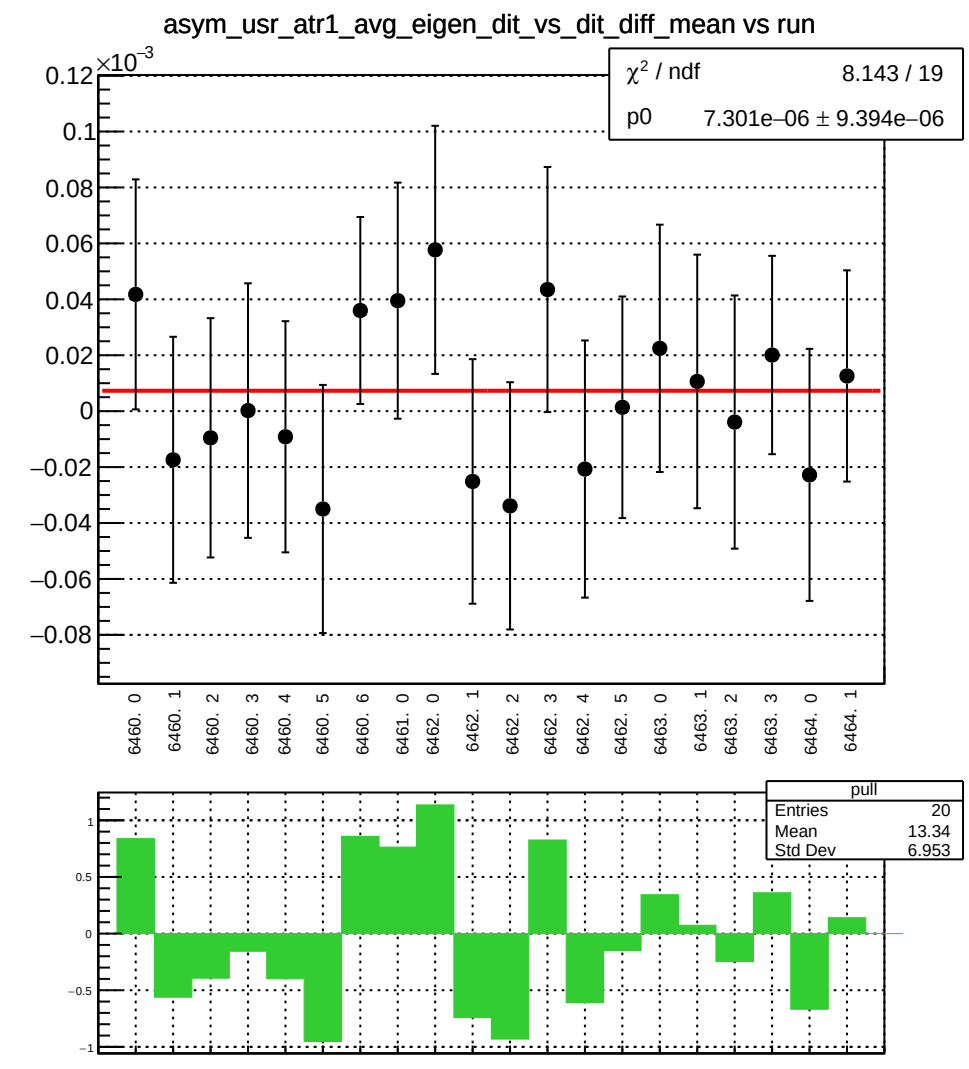

pull1D
Entries 20
Mean 0.008895
Std Dev 0.7278
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

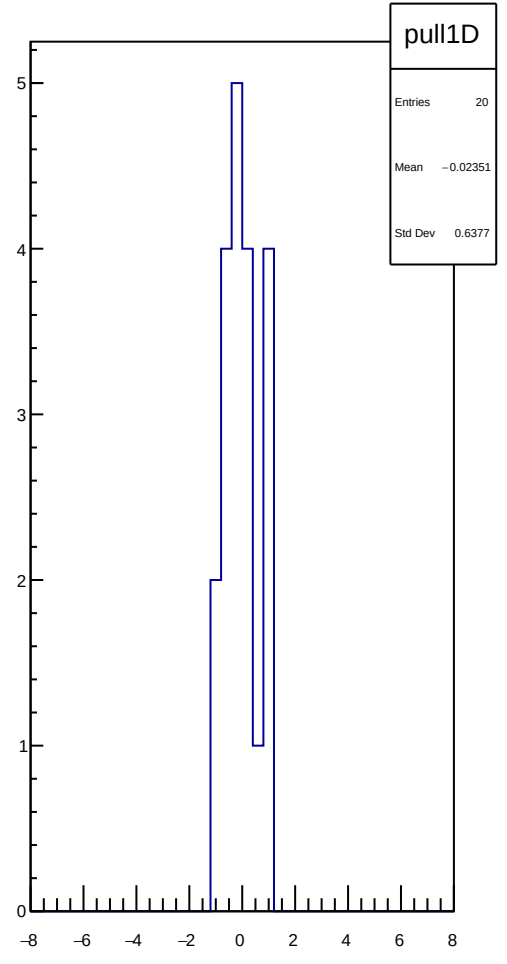

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.865e+04 / 19
p0 153.3 ± 0.2465
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

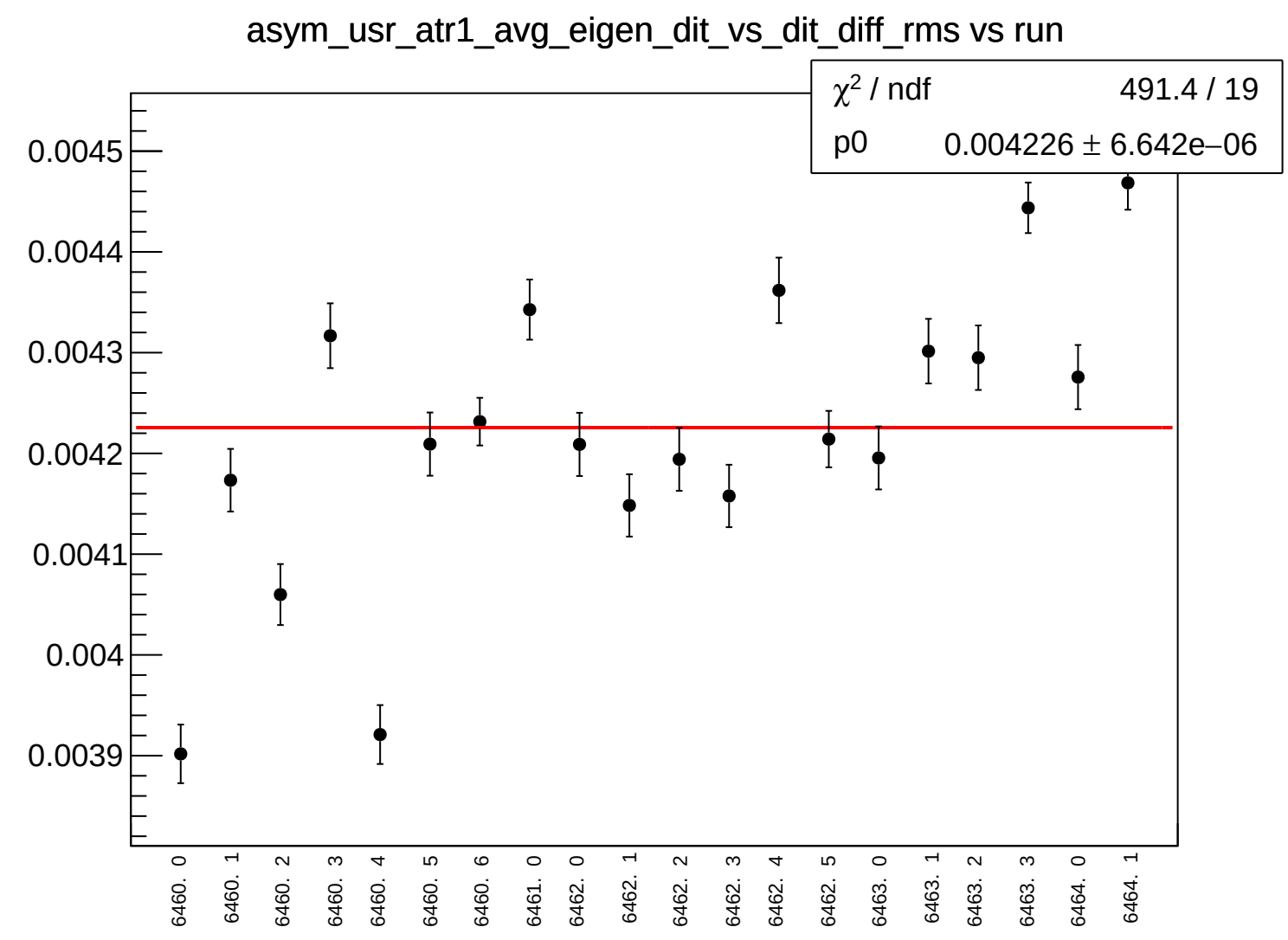

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.6 / 19
p0 −0.2014 ± 0.3486
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.54
Std Dev 25.97
1.5
1
0.5
0
−0.5
−1

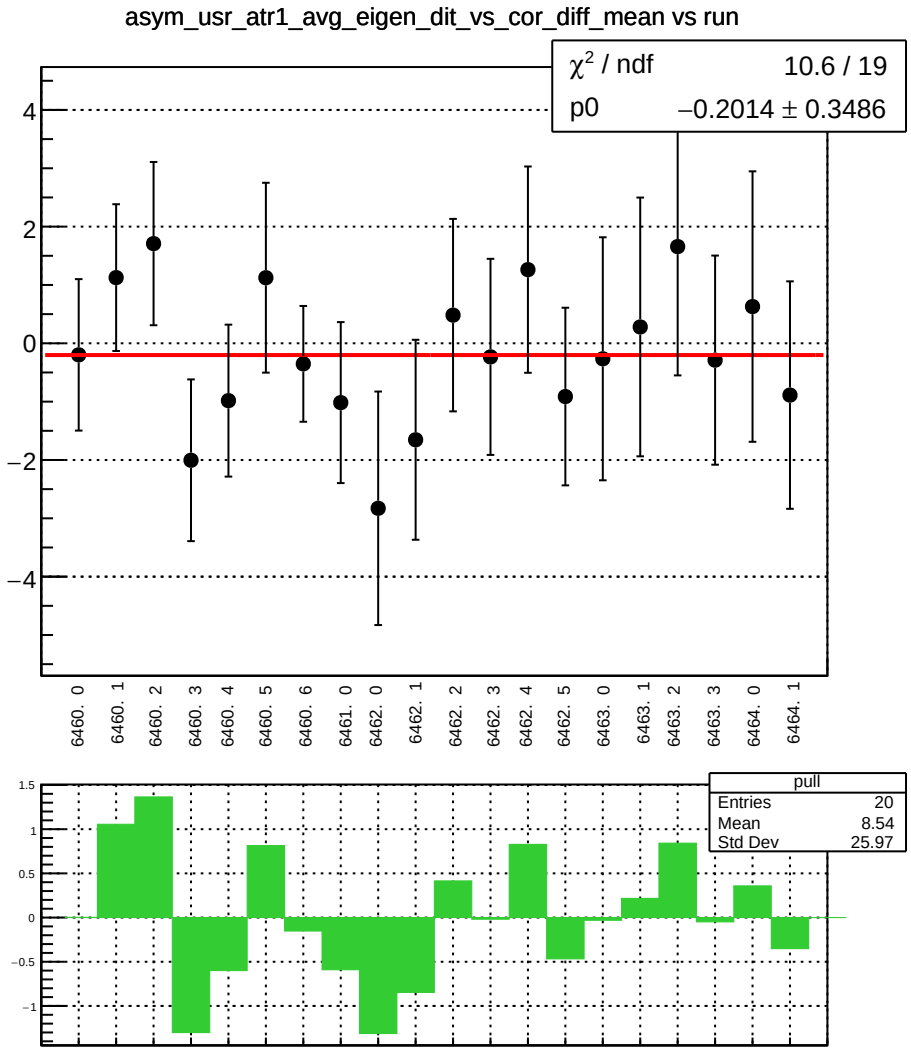

pull1D
Entries 20
Mean 0.008895
Std Dev 0.7278
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

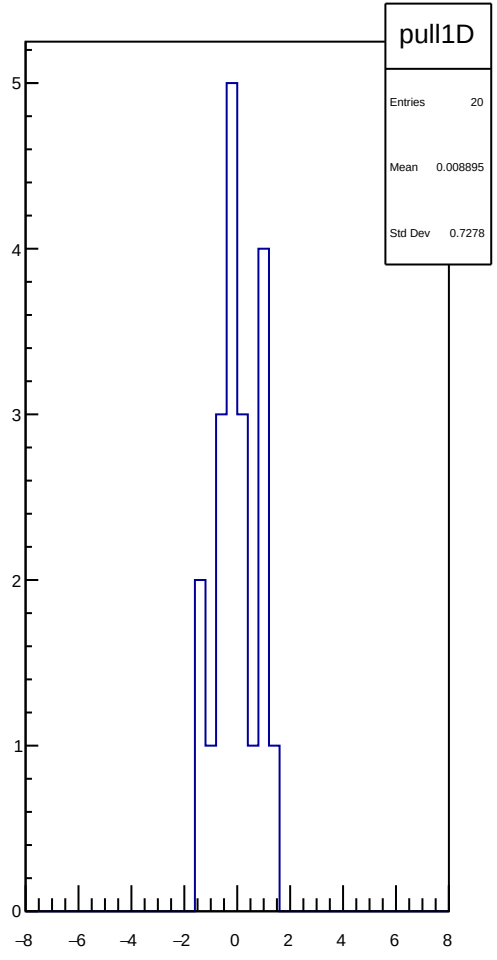

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.865e+04 / 19
p0 153.3 ± 0.2465
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

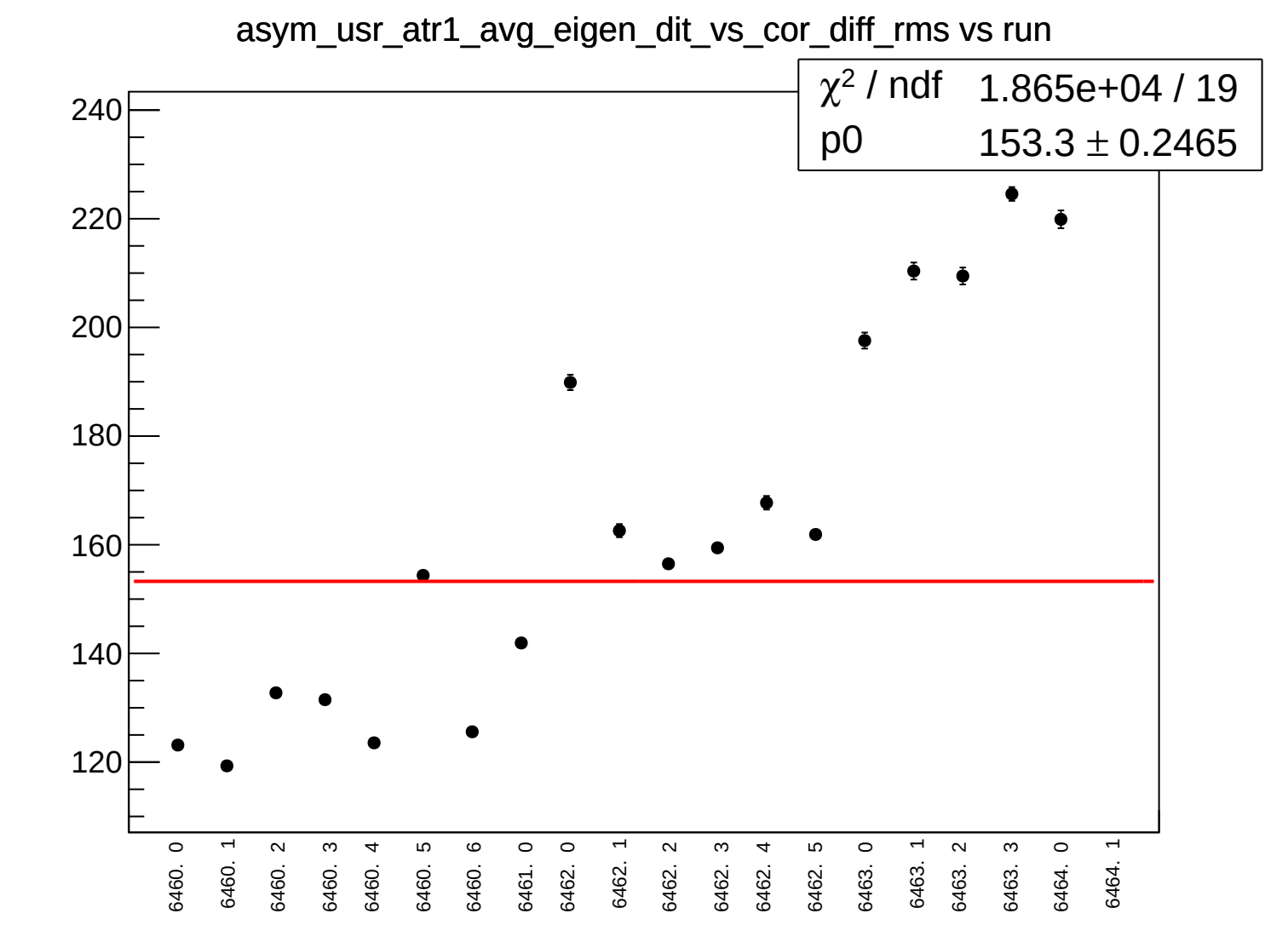

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 8.143 / 19
p0 7.301e−06 ± 9.394e−06
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.34
Std Dev 6.953
1
0.5
0
−0.5
−1

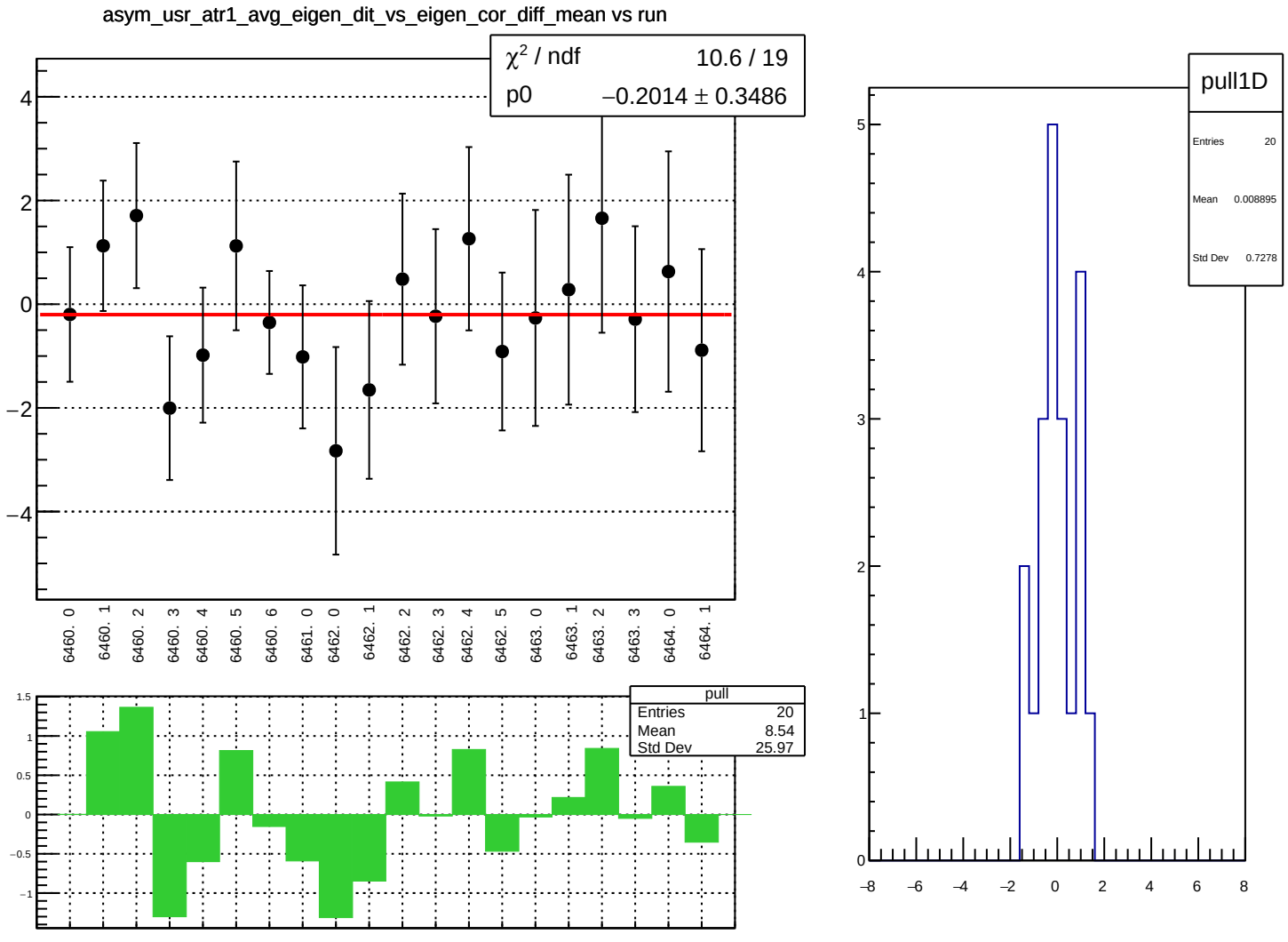

pull1D
Entries 20
Mean −0.02351
Std Dev 0.6377
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

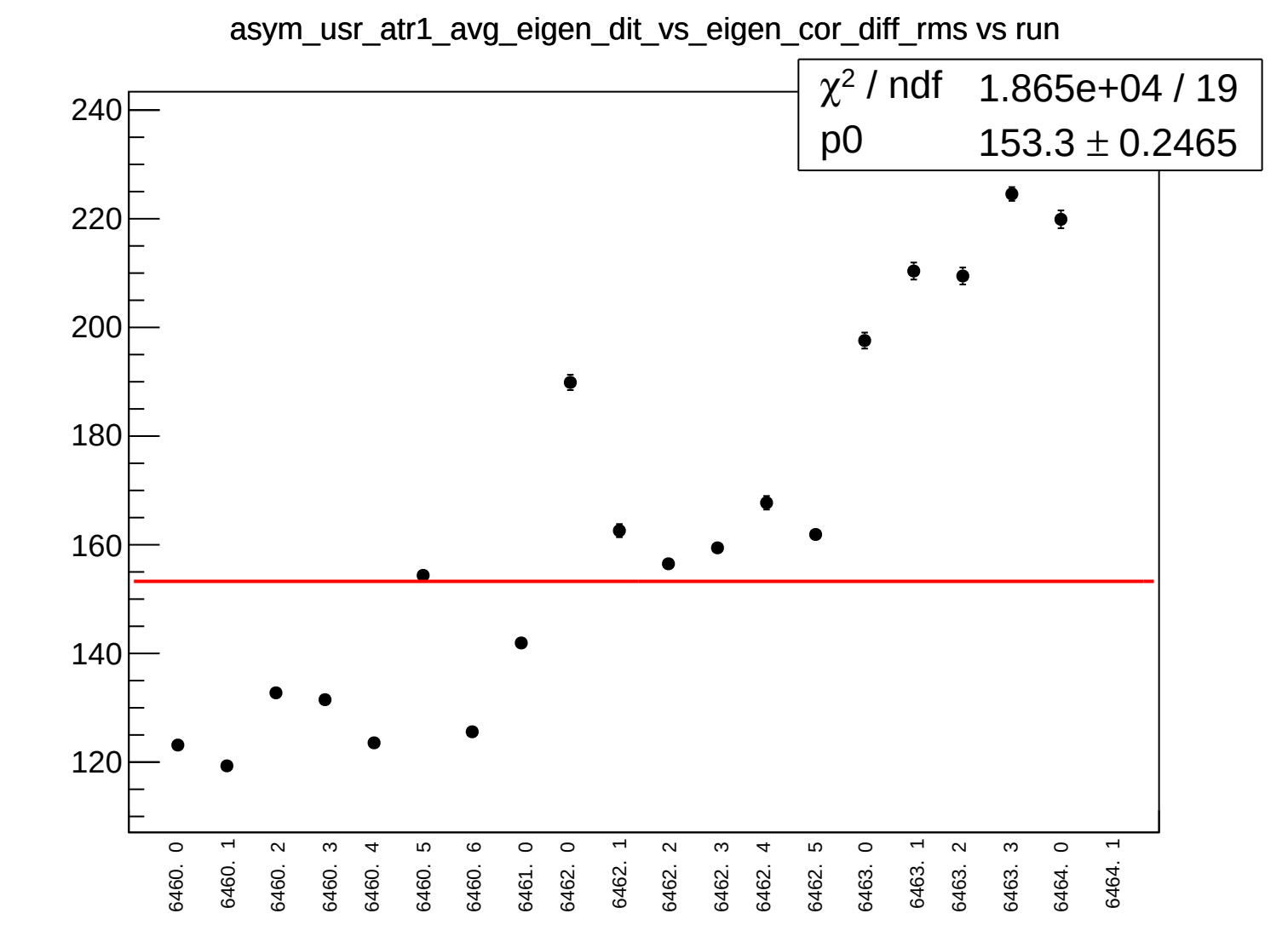

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 491.4 / 19
p0 0.004226 ± 6.642e−06
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

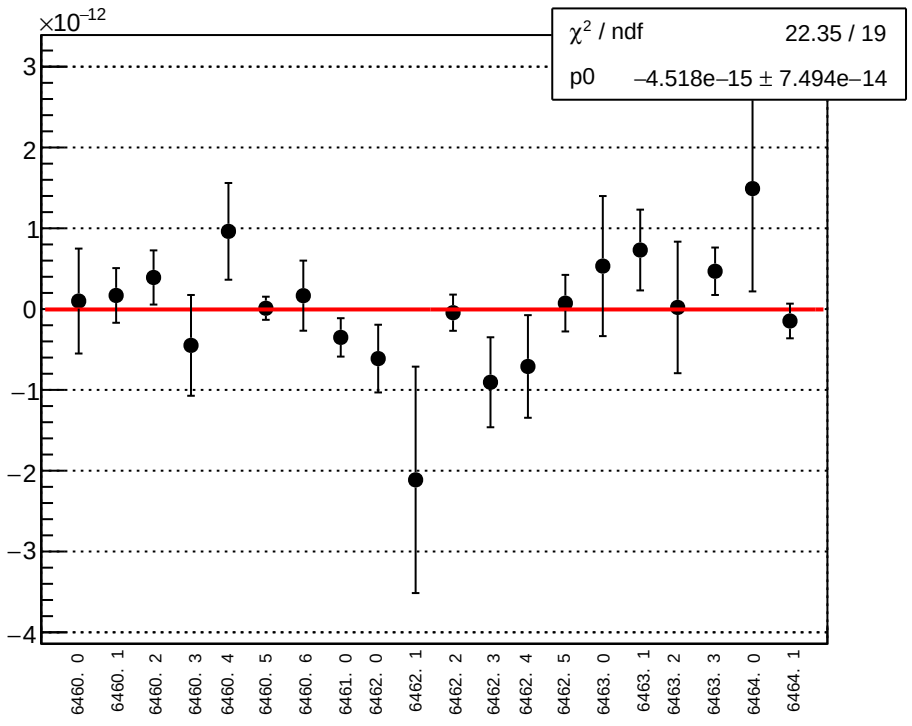

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 10.6 / 19
p0 −0.2014 ± 0.3486
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.54
Std Dev 25.97

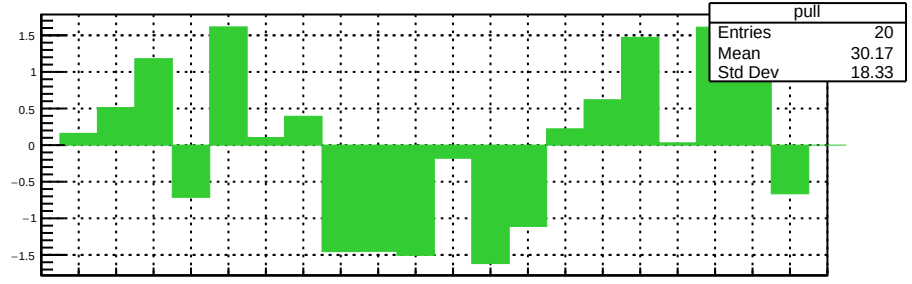

pull1D
Entries 20
Mean 0.008895
Std Dev 0.7278

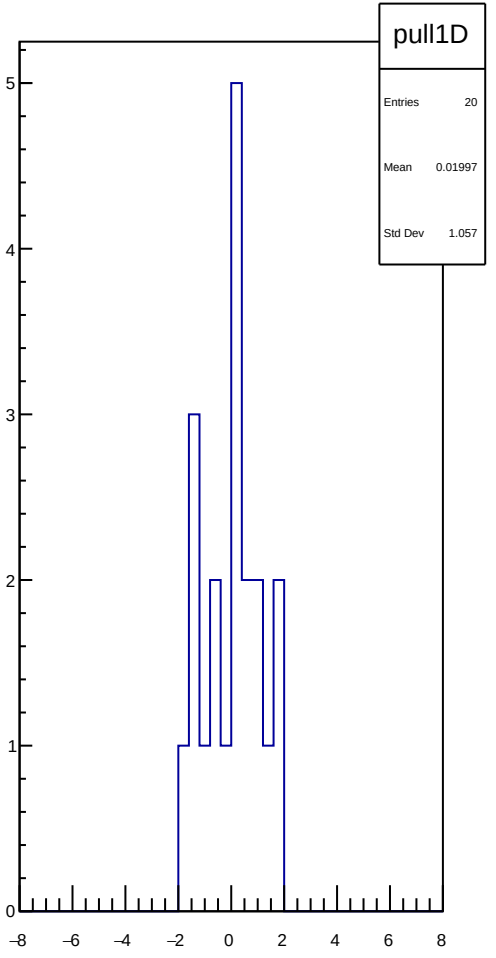

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.865e+04 / 19
p0 153.3 ± 0.2465
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

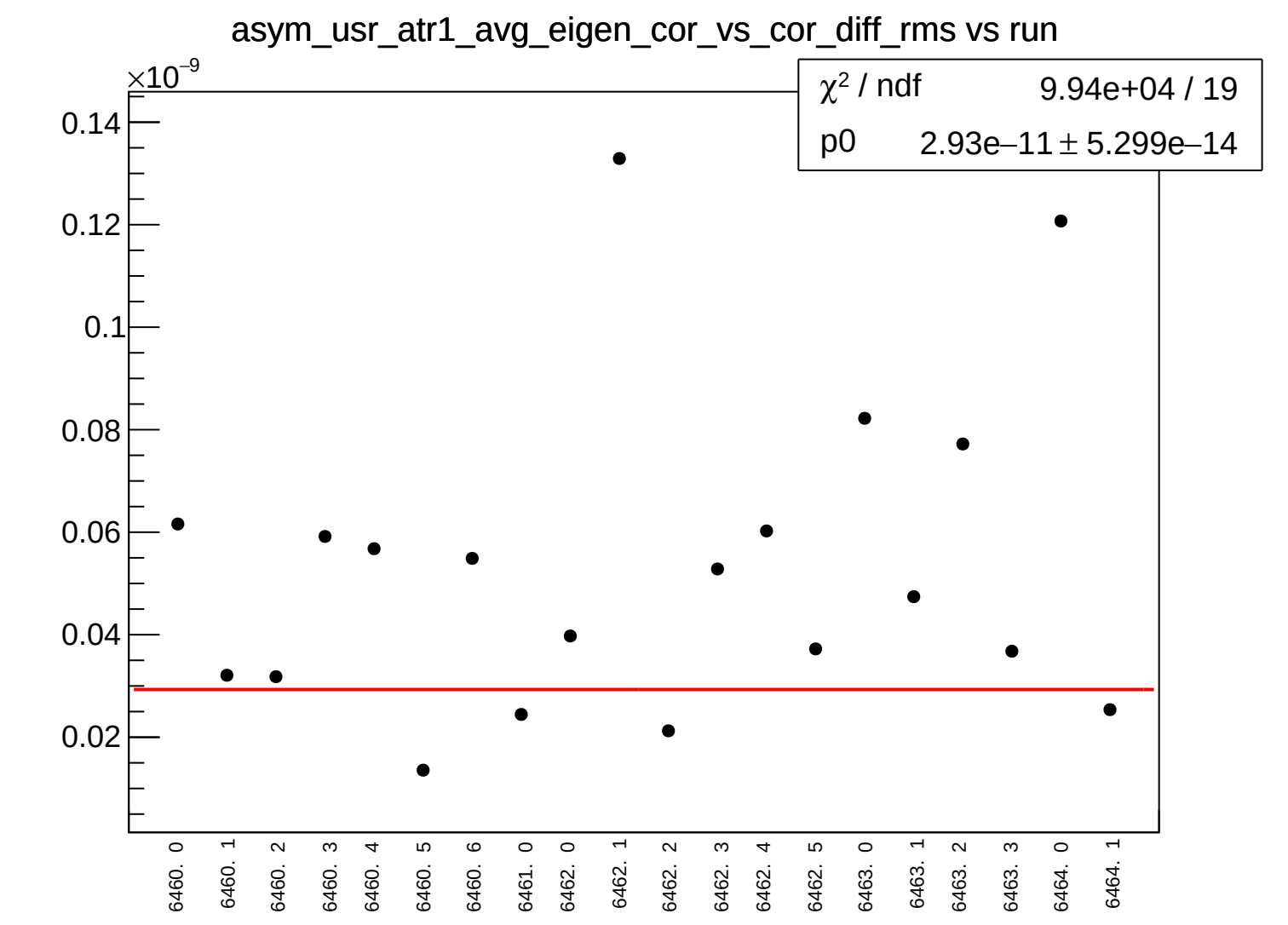

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.6 / 19
p0 −0.2014 ± 0.3486
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.54
Std Dev 25.97
pull1D
Entries 20
Mean 0.008895
Std Dev 0.7278

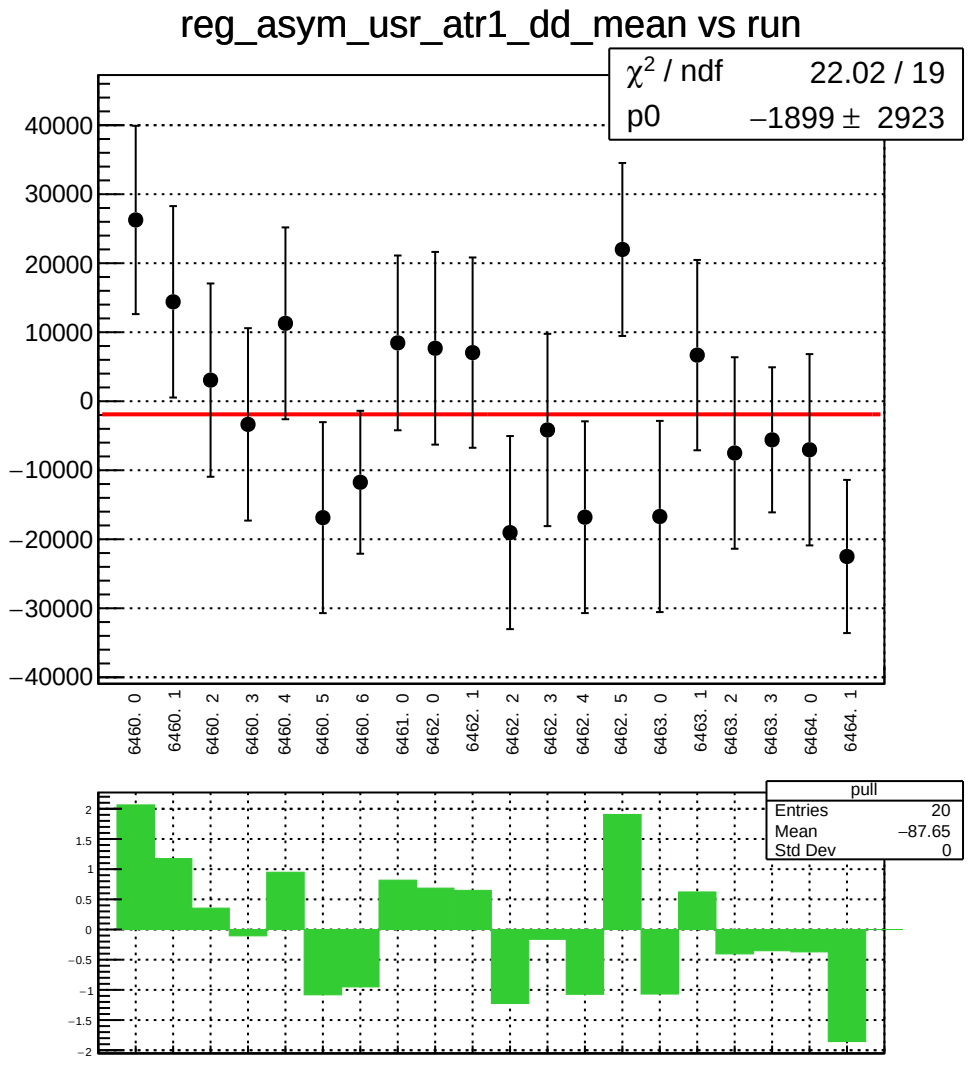

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.865e+04 / 19
p0 153.3 ± 0.2465
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

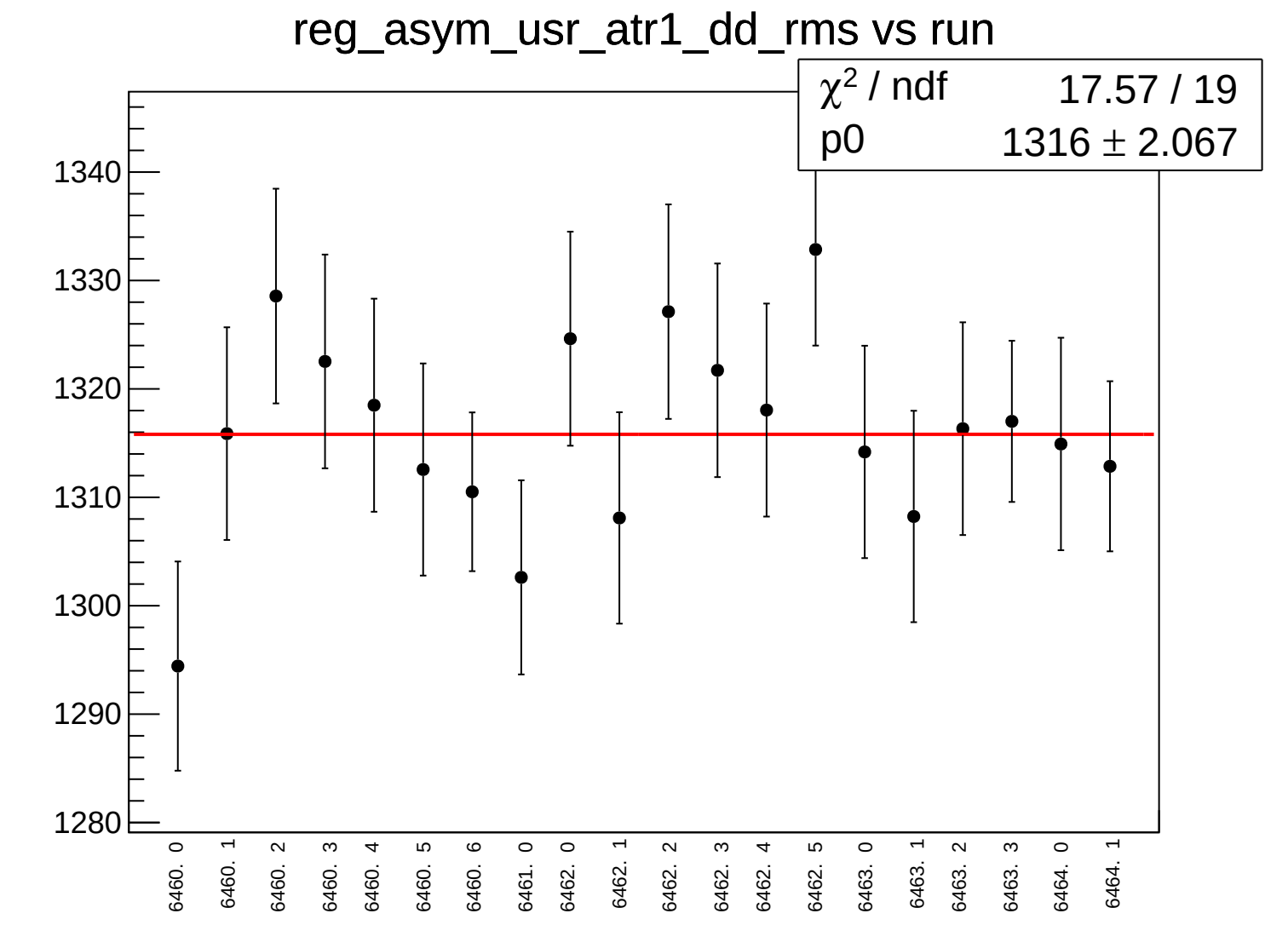

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.35 / 19
p0 −4.518e−15 ± 7.494e−14
3
2
1
0
−1
−2
−3
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

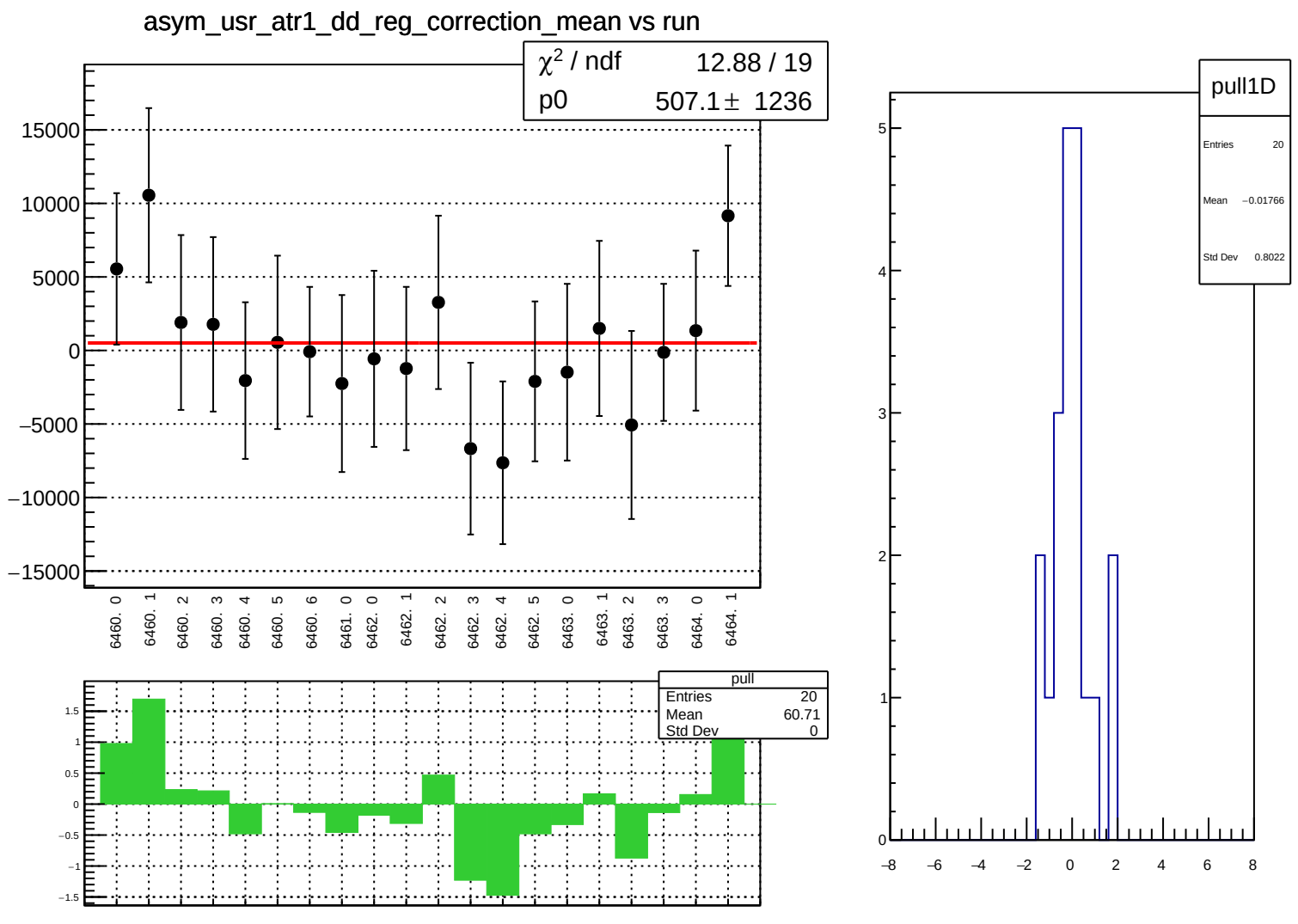

pull
Entries 20
Mean 30.17
Std Dev 18.33
1.5
1
0.5
0
−0.5
−1
−1.5

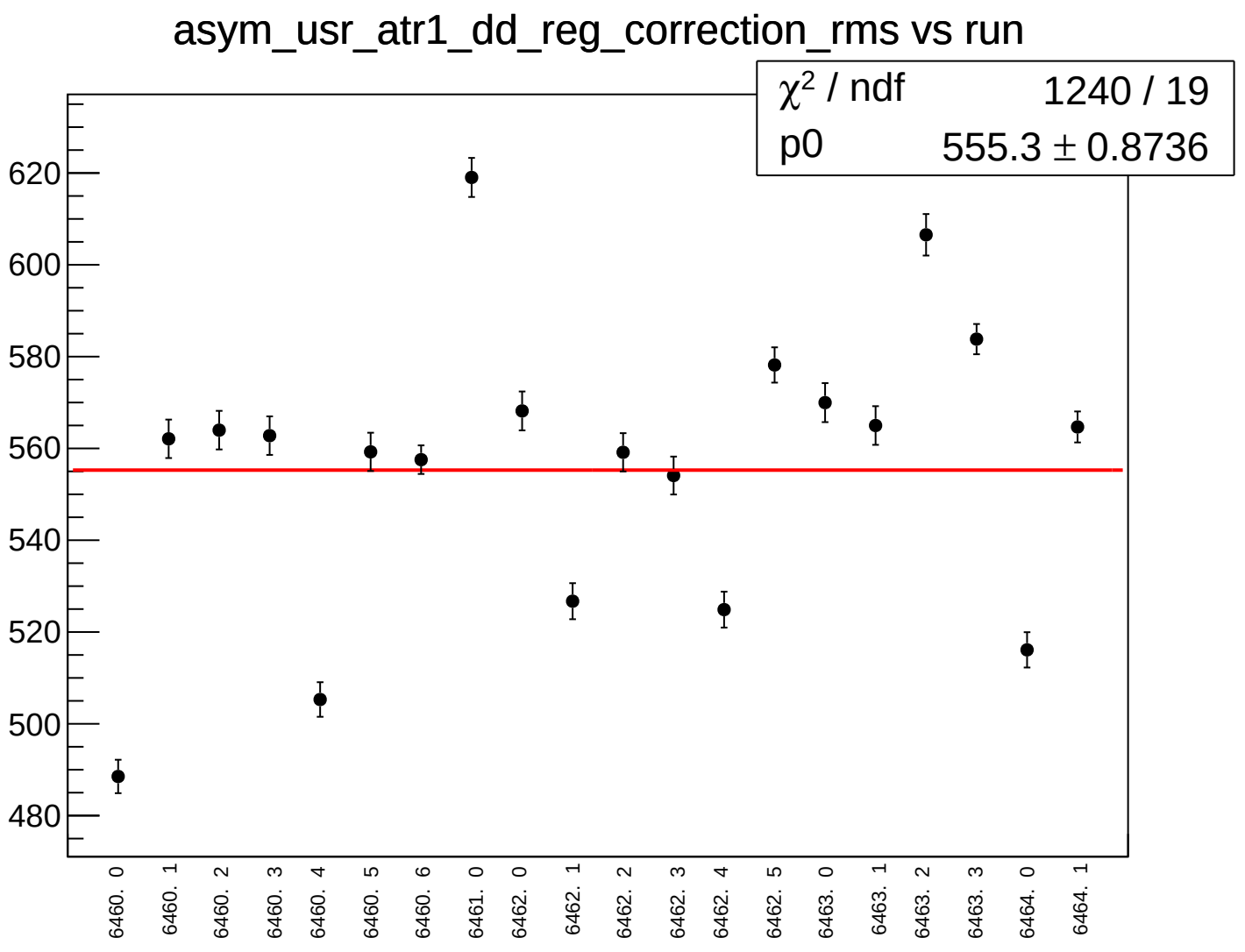

pull1D
Entries 20
Mean 0.01997
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

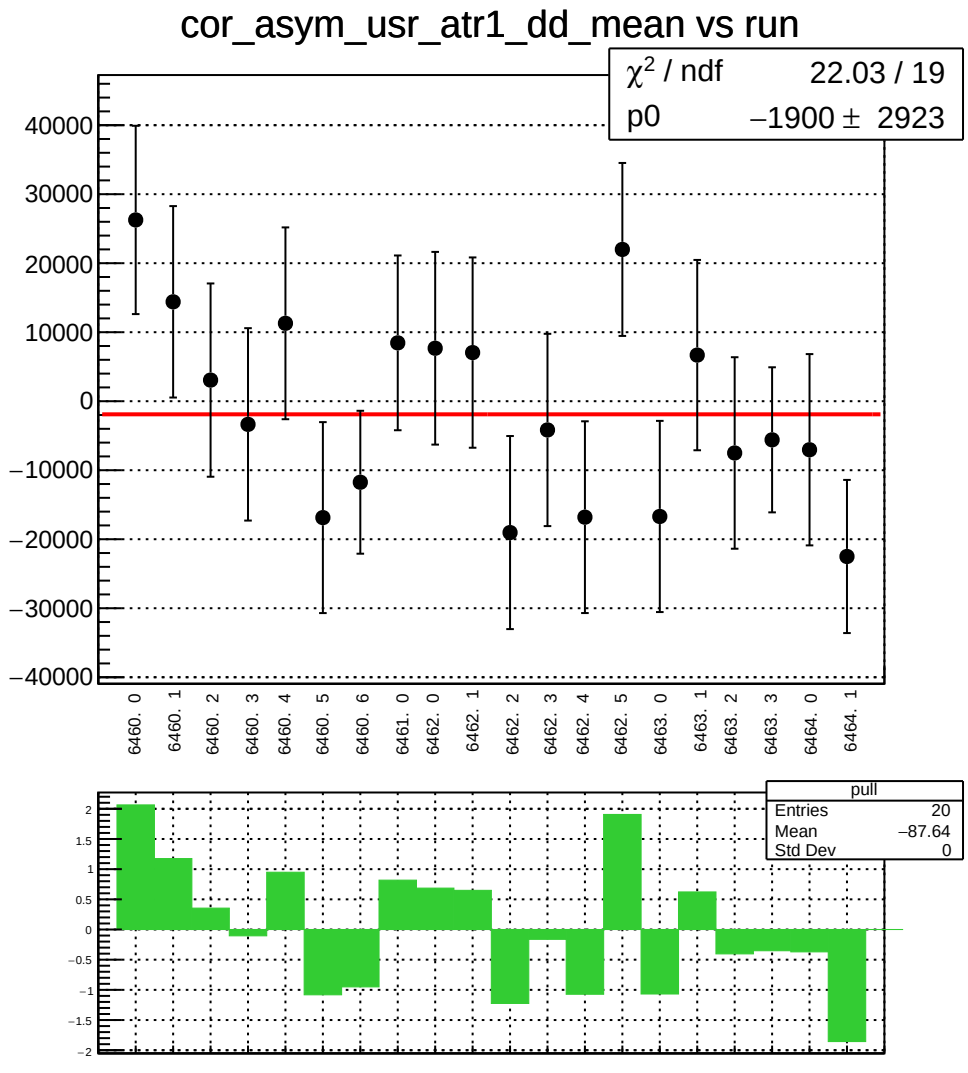

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.94e+04 / 19
p0 2.93e−11 ± 5.299e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

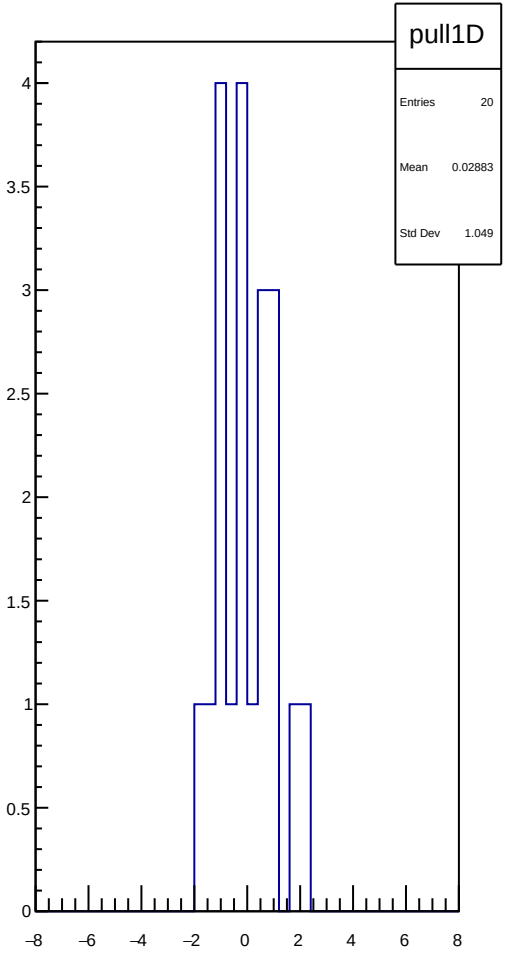

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 22.02 / 19
p0 −1899 ± 2923
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −87.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.02883
Std Dev 1.049
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

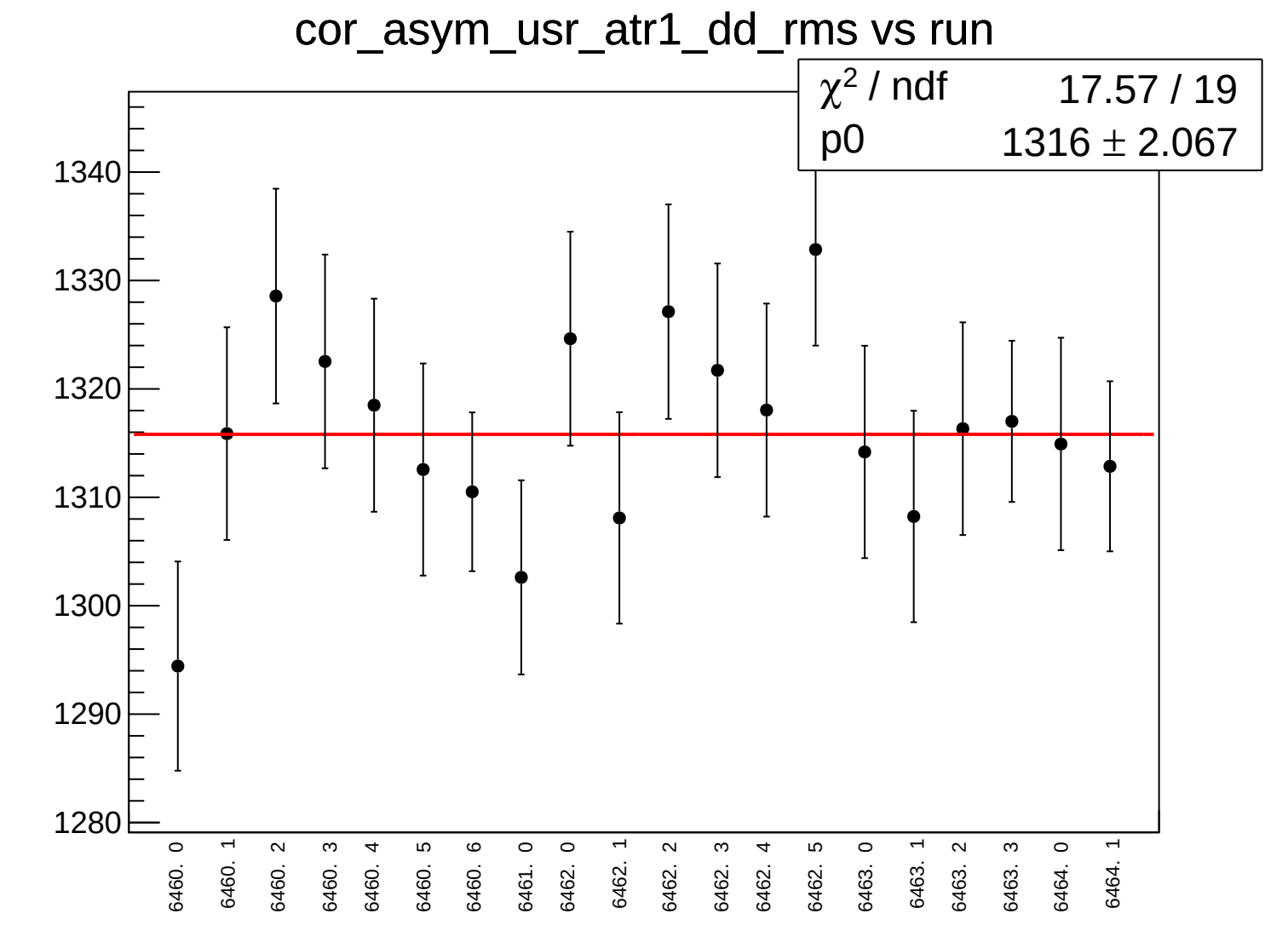

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 17.57 / 19
p0 1316 ± 2.067
1340
1330
1320
1310
1300
1290
1280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

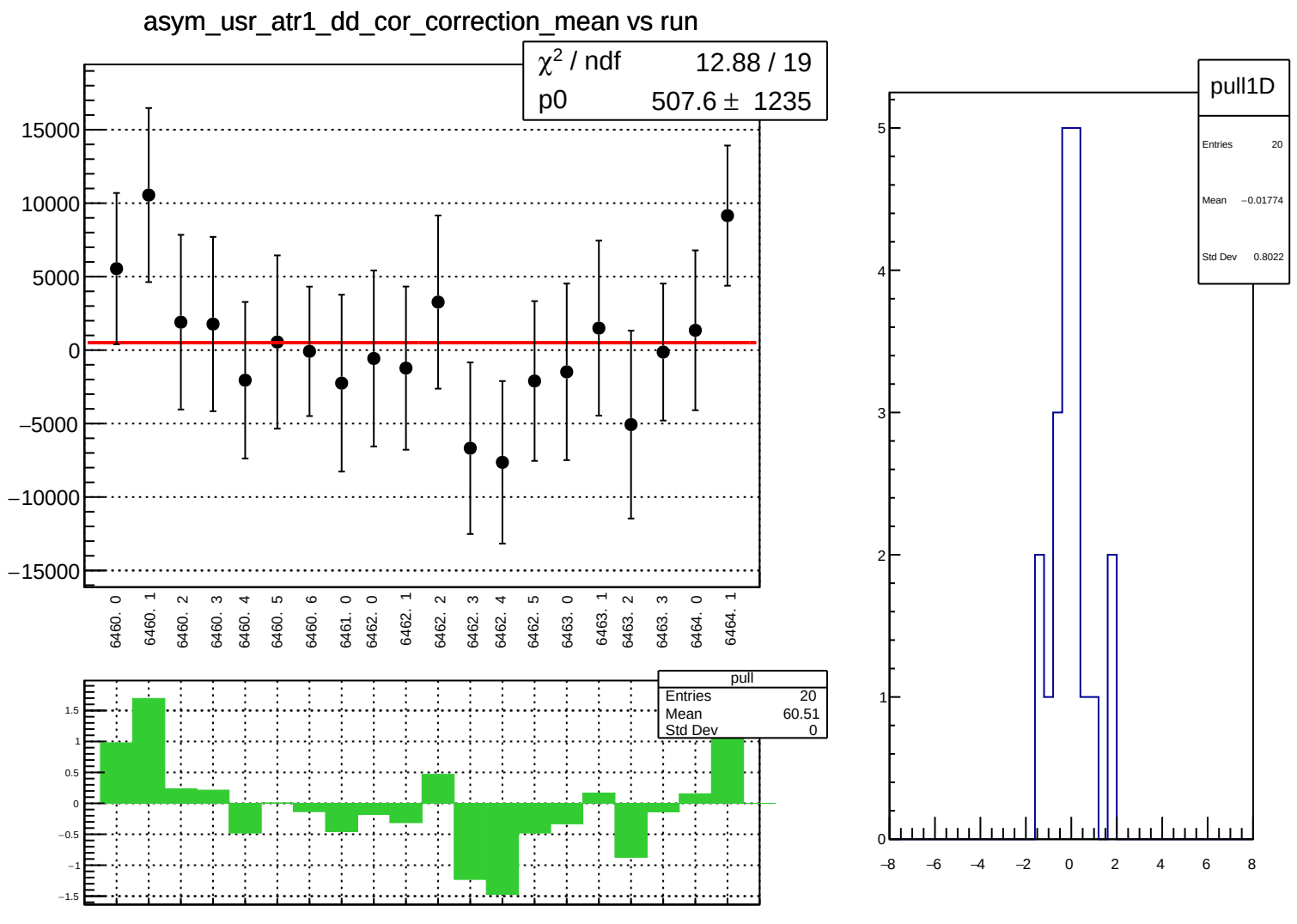

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 12.88 / 19
p0 507.1 ± 1236
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01766
Std Dev 0.8022
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

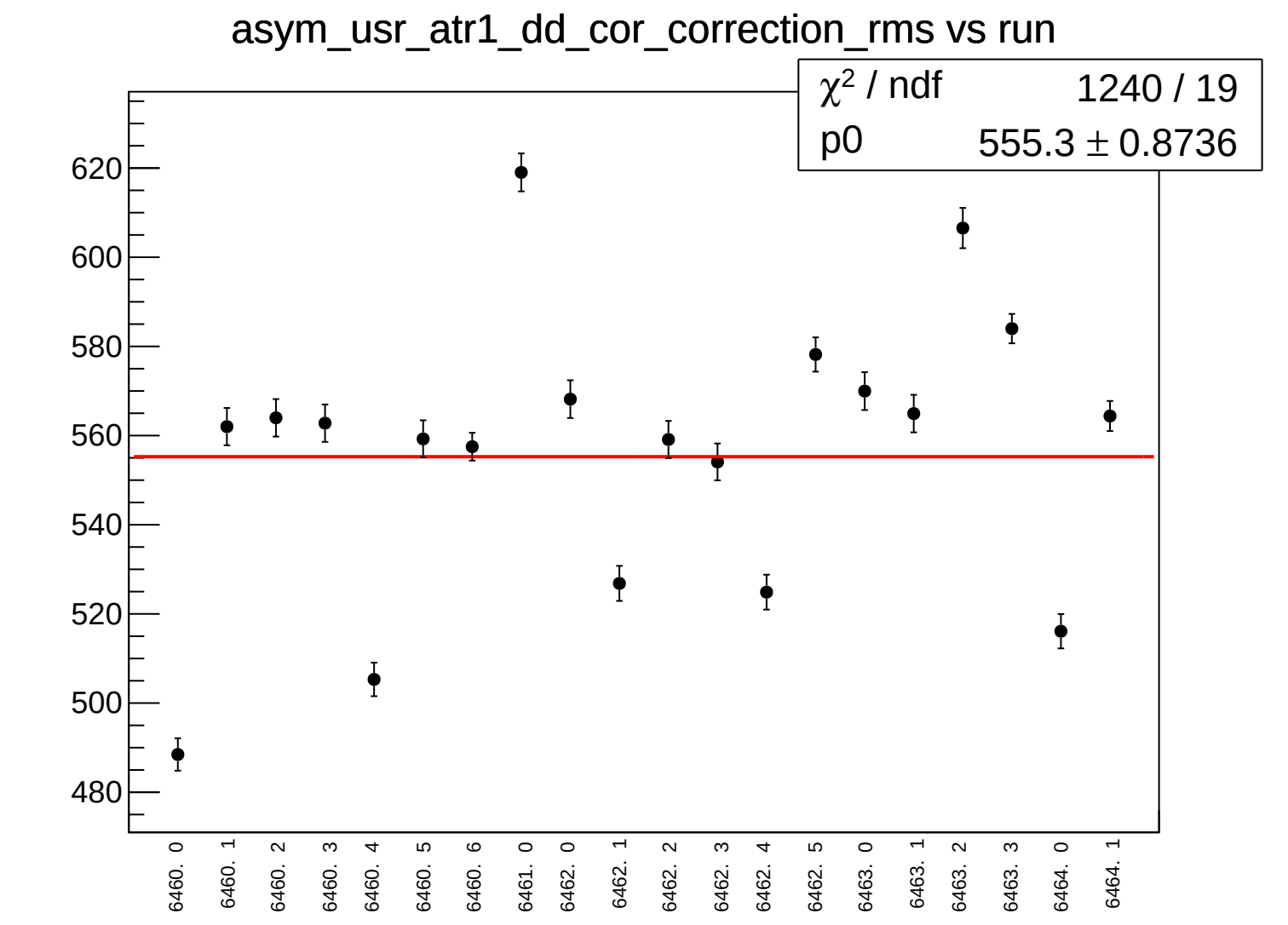

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1240 / 19
p0 555.3 ± 0.8736
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

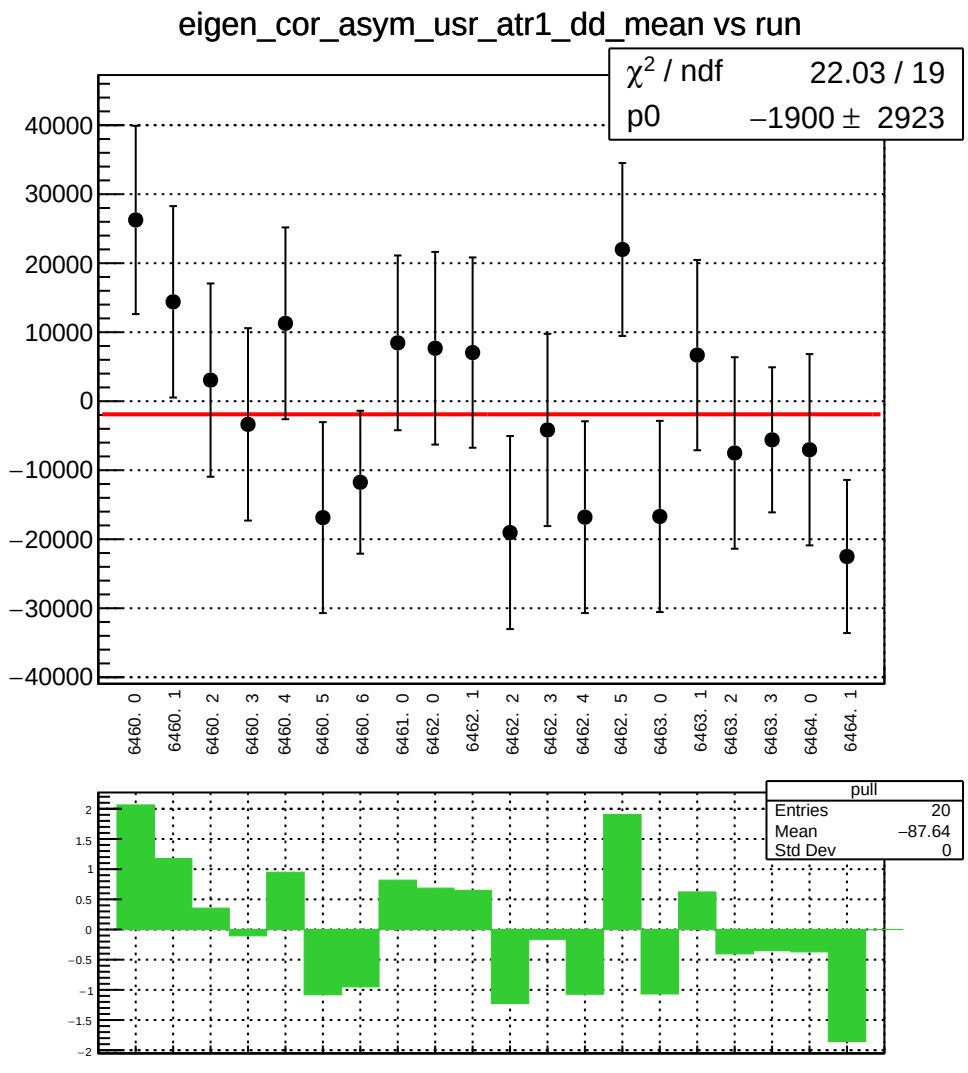

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 22.03 / 19
p0 −1900 ± 2923
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −87.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

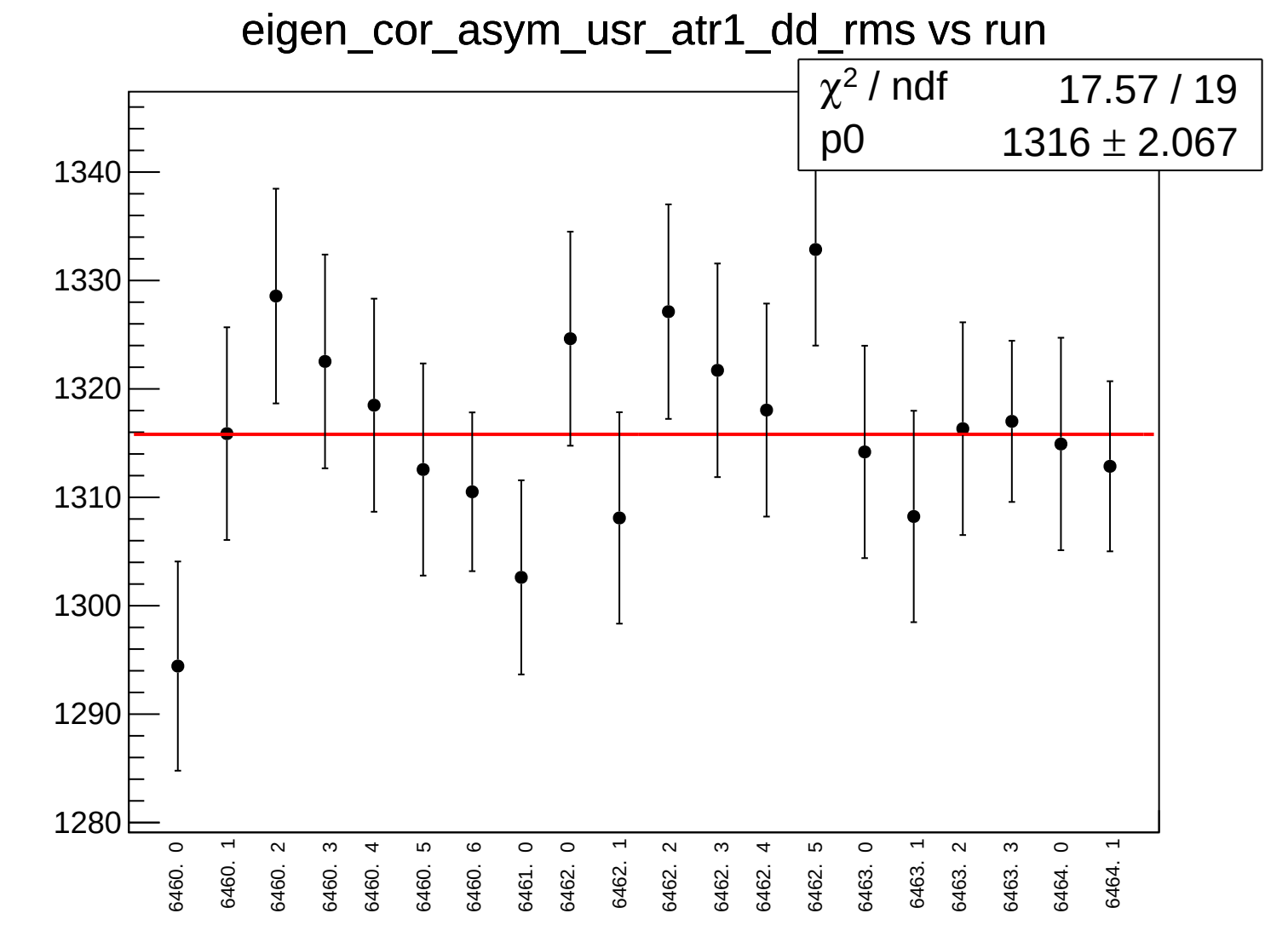

pull1D
Entries 20
Mean 0.02883
Std Dev 1.049
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

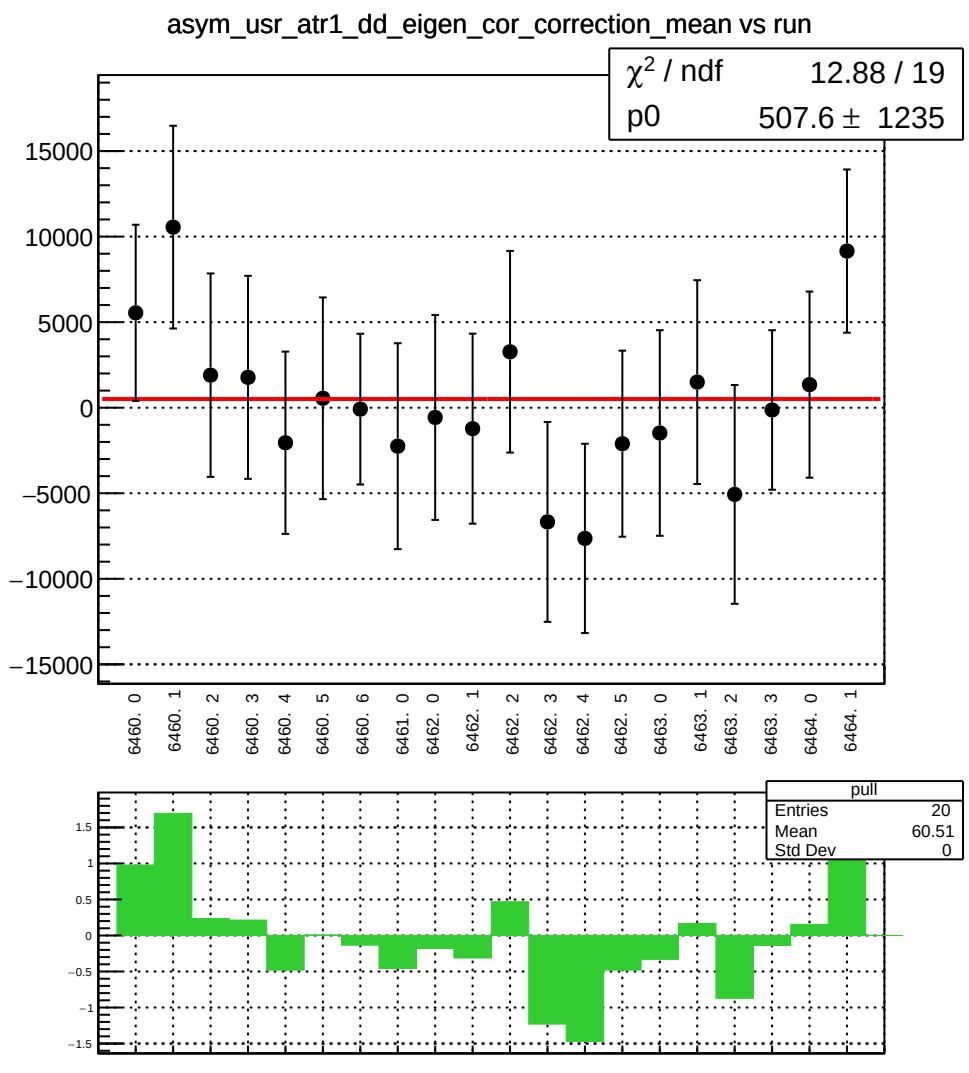

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 17.57 / 19
p0 1316 ± 2.067
1340
1330
1320
1310
1300
1290
1280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

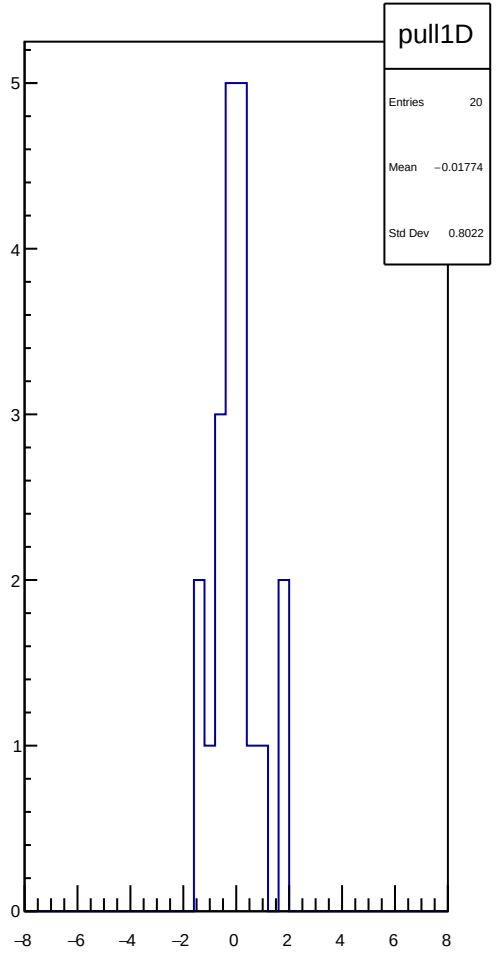

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 12.88 / 19
p0 507.6 ± 1235
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01774
Std Dev 0.8022
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

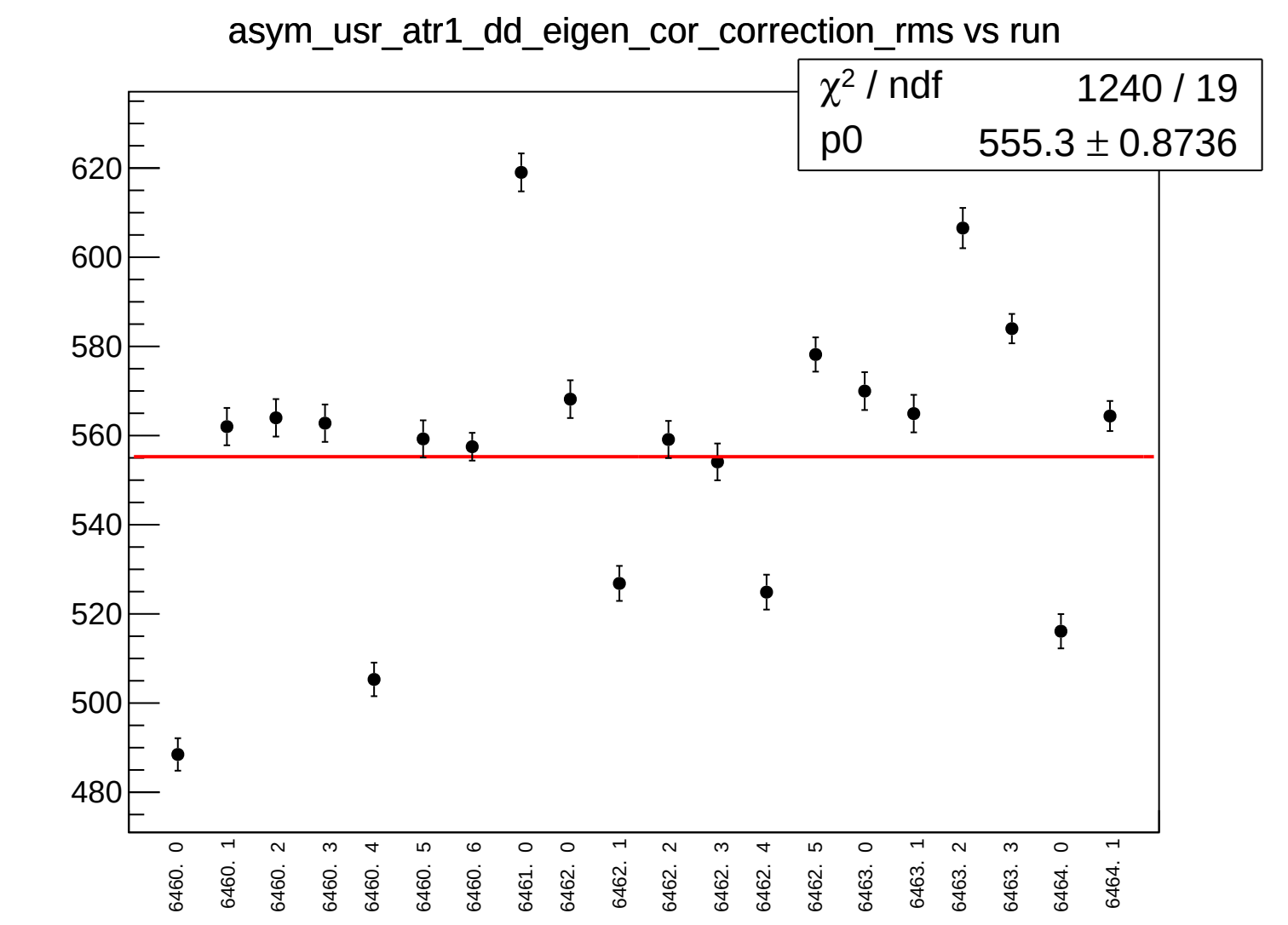

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1240 / 19
p0 555.3 ± 0.8736
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

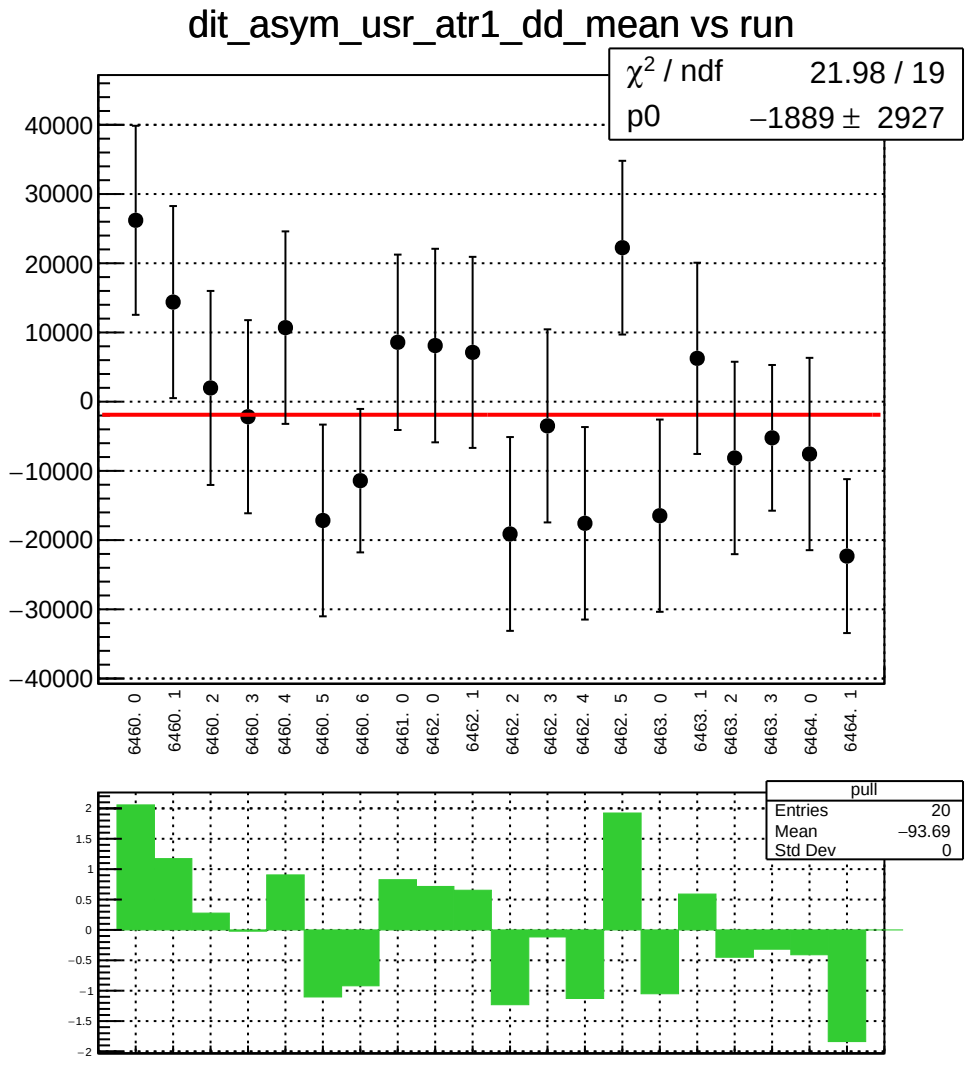

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 22.03 / 19
p0 −1900 ± 2923
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −87.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.02883
Std Dev 1.049
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

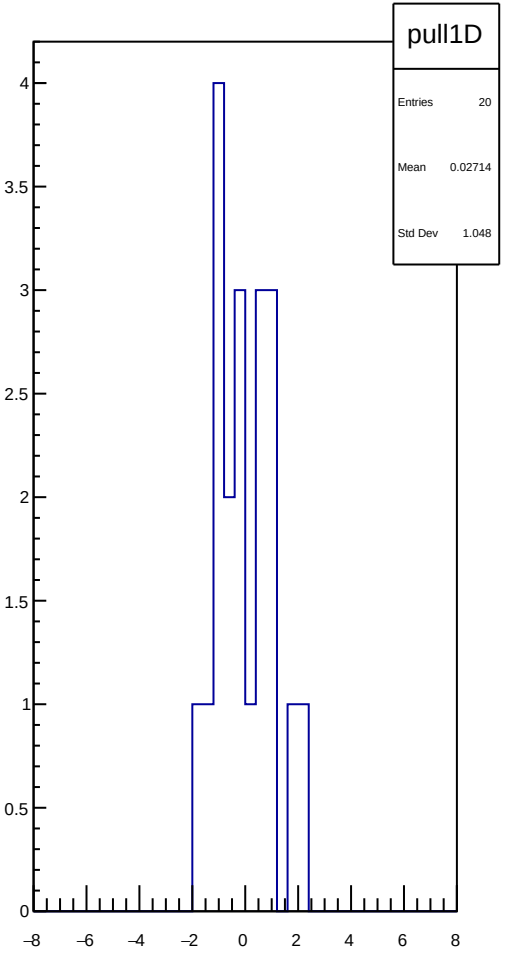

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 17.57 / 19
p0 1316 ± 2.067
1340
1330
1320
1310
1300
1290
1280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

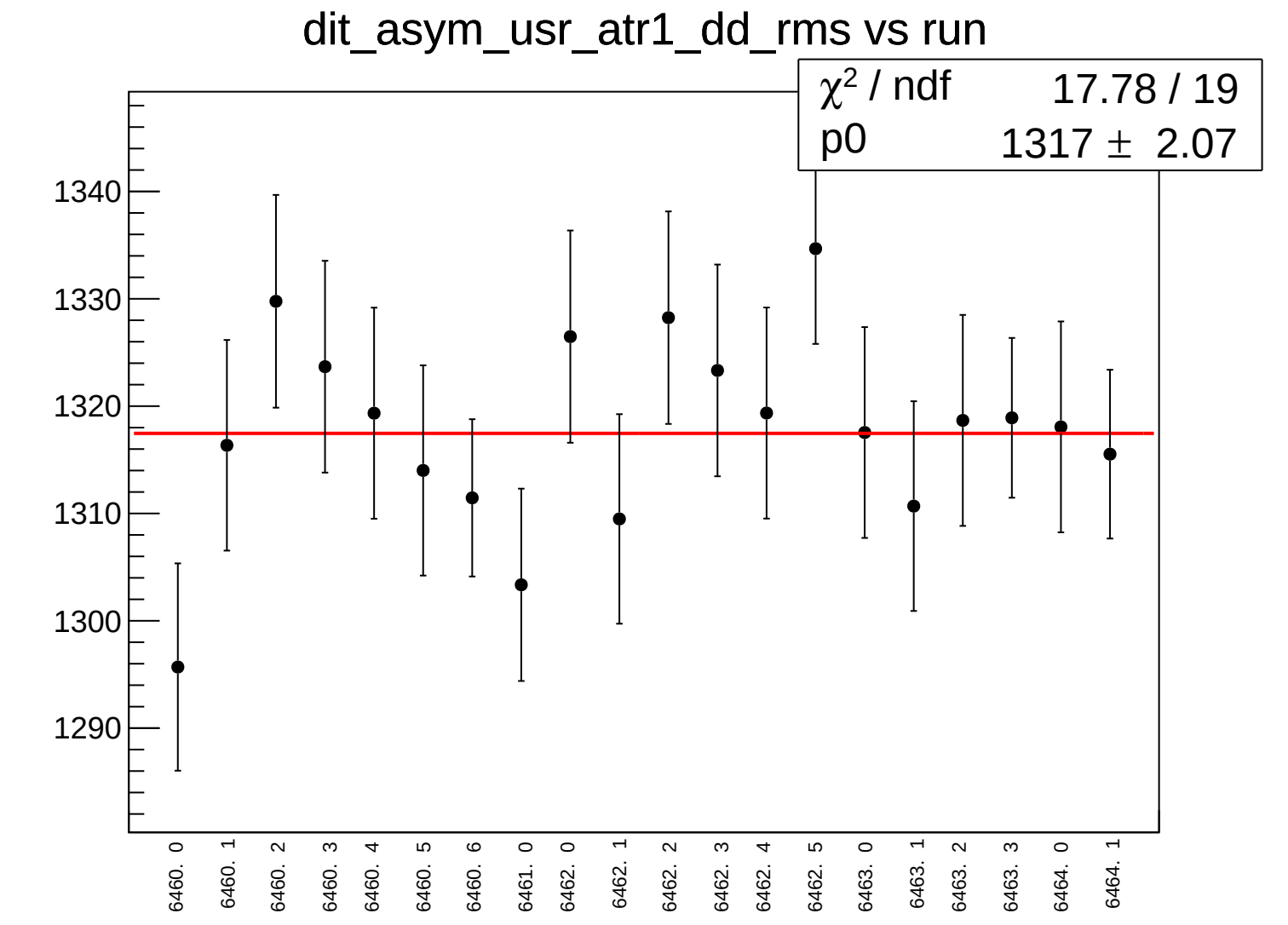

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 12.88 / 19
p0 507.6 ± 1235
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

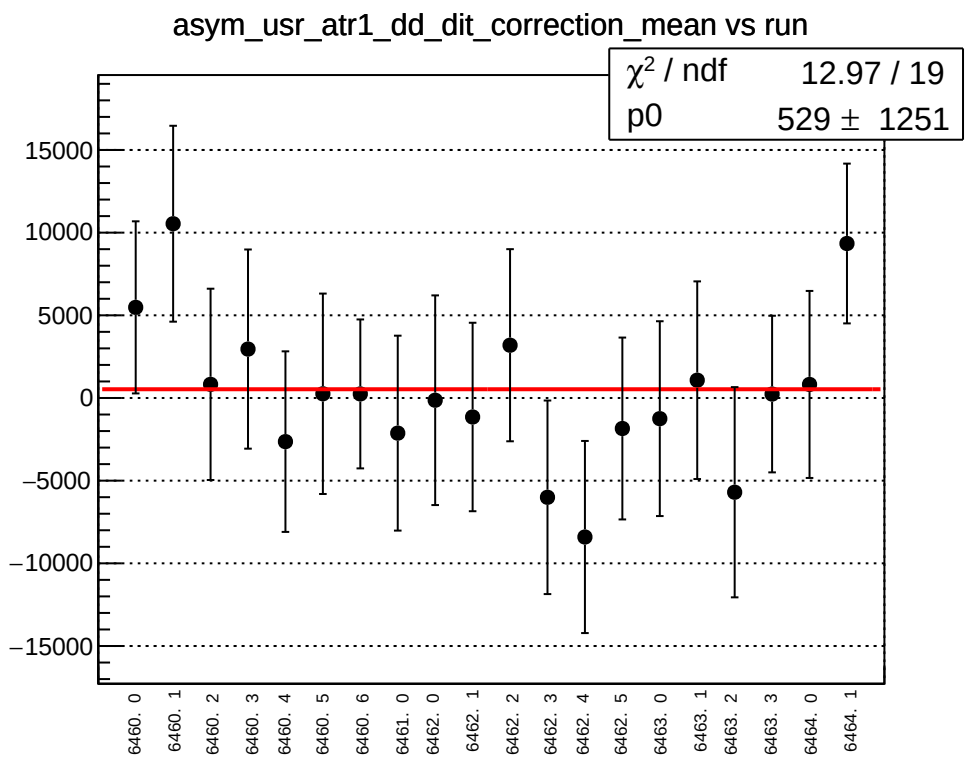

pull1D
Entries 20
Mean −0.01774
Std Dev 0.8022
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

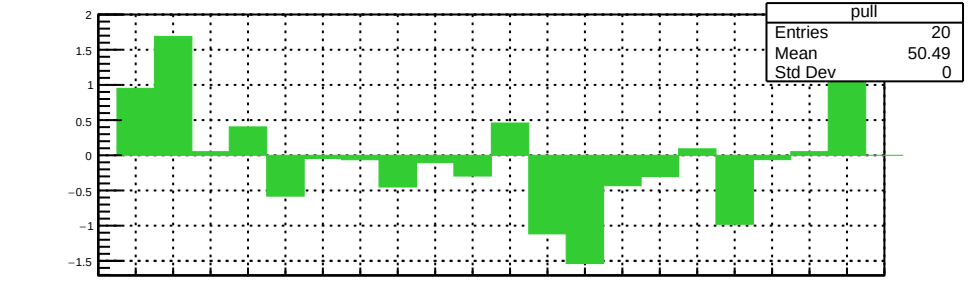

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1240 / 19
p0 555.3 ± 0.8736
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

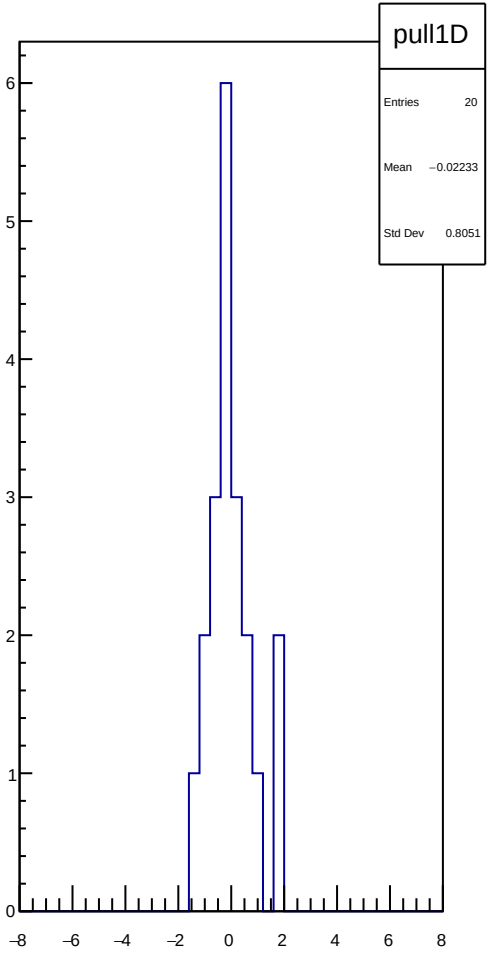

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 21.98 / 19
p0 −1889 ± 2927
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −93.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

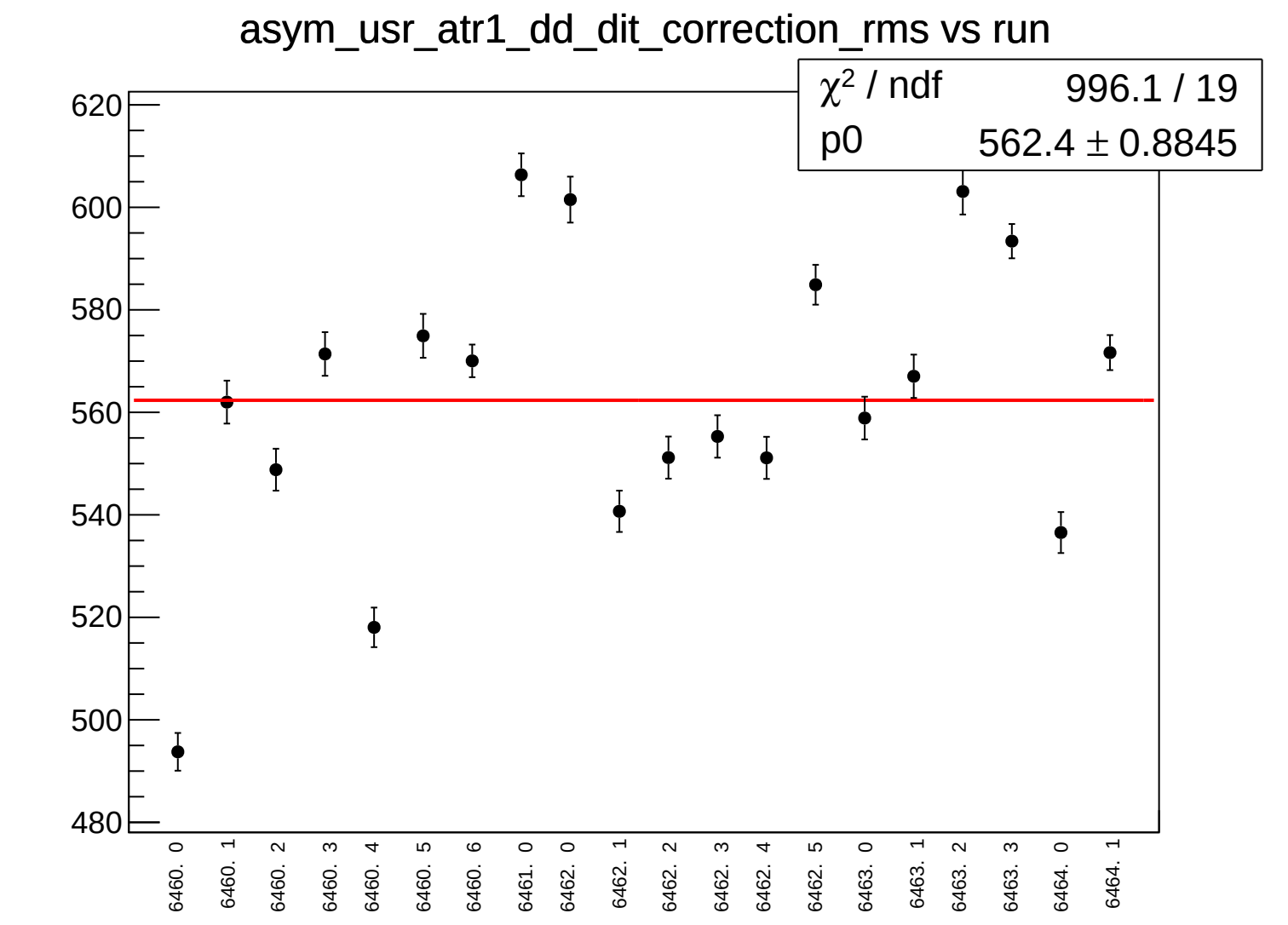

pull1D
Entries 20
Mean 0.02714
Std Dev 1.048
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

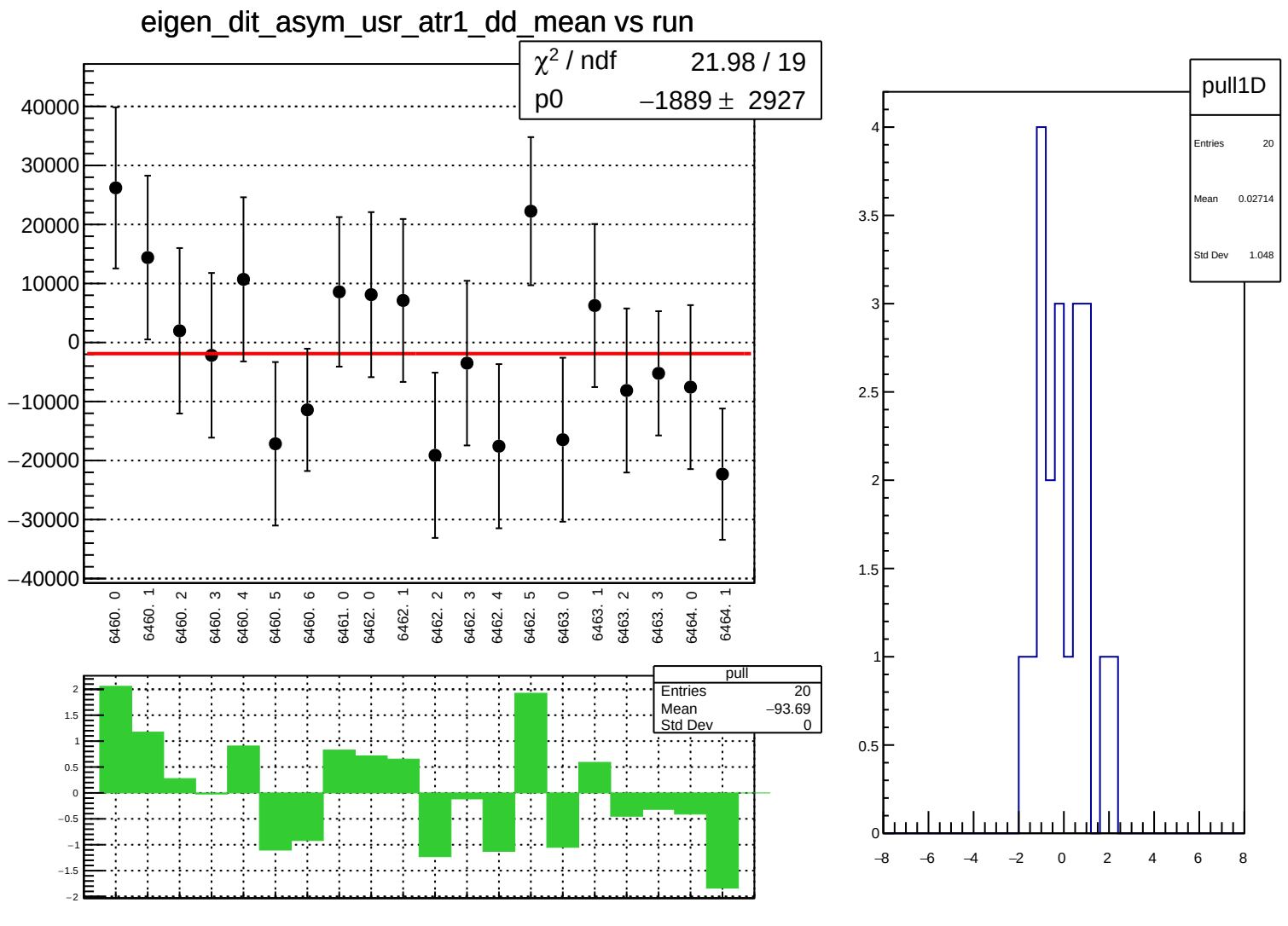

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 17.78 / 19
p0 1317 ± 2.07
1340
1330
1320
1310
1300
1290
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

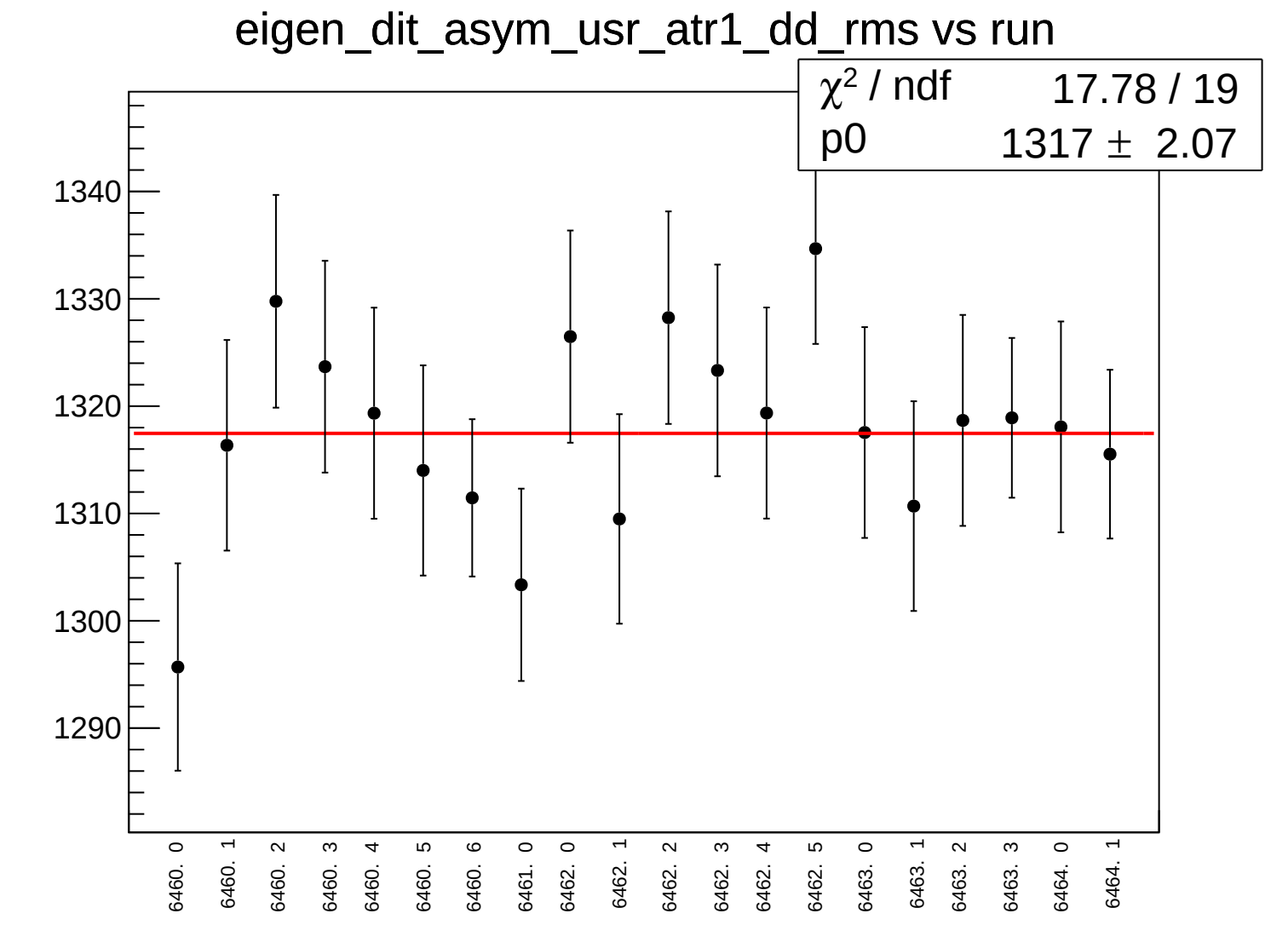

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 12.97 / 19
p0 529 ± 1251
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

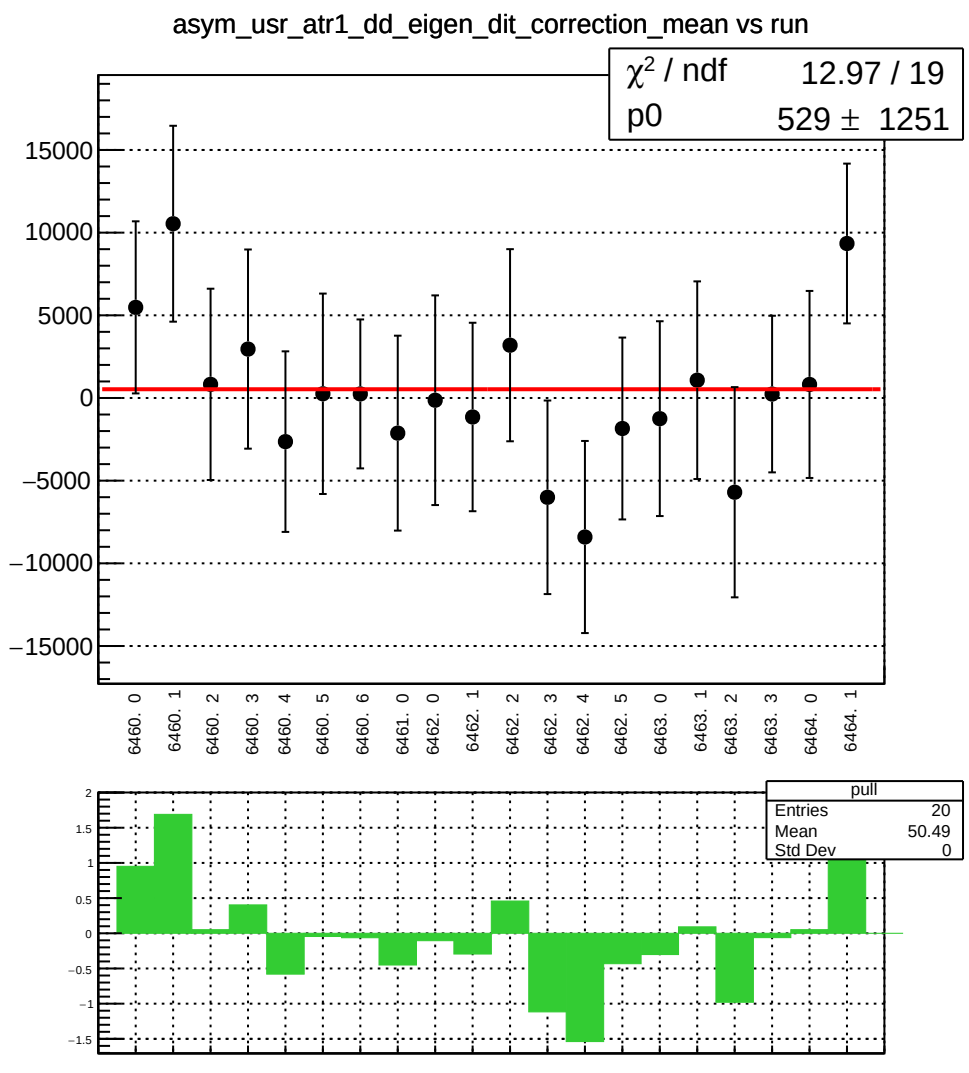

pull
Entries 20
Mean 50.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

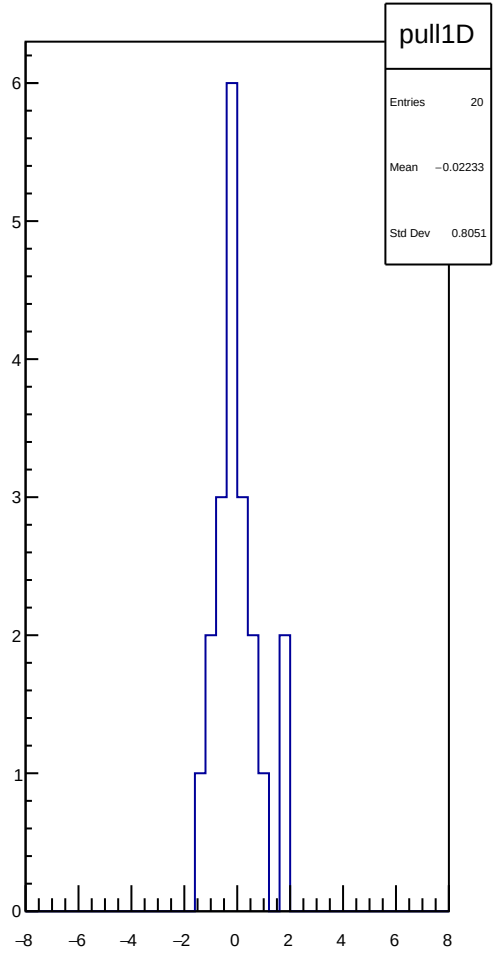

pull1D
Entries 20
Mean −0.02233
Std Dev 0.8051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

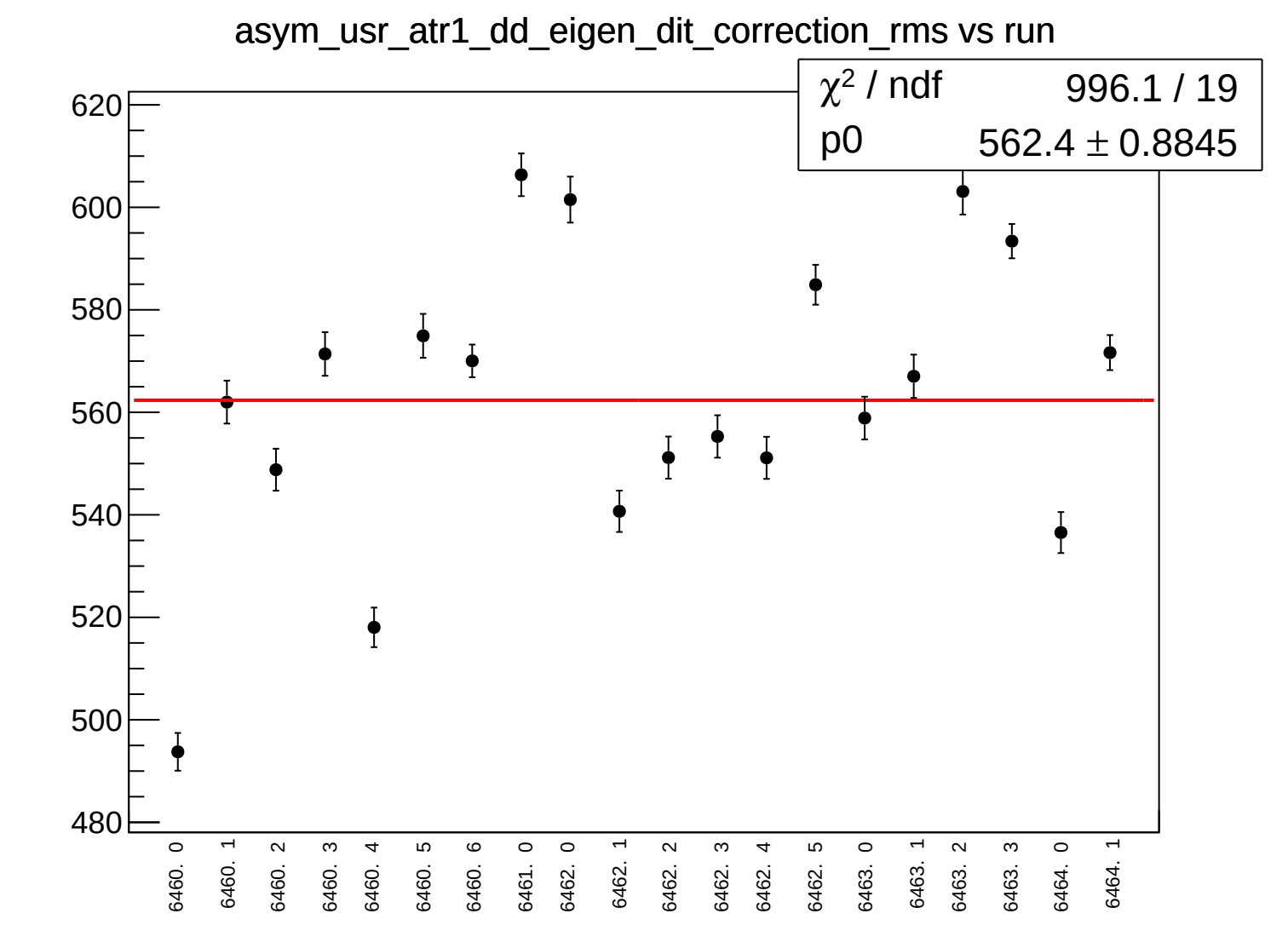

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 996.1 / 19
p0 562.4 ± 0.8845
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

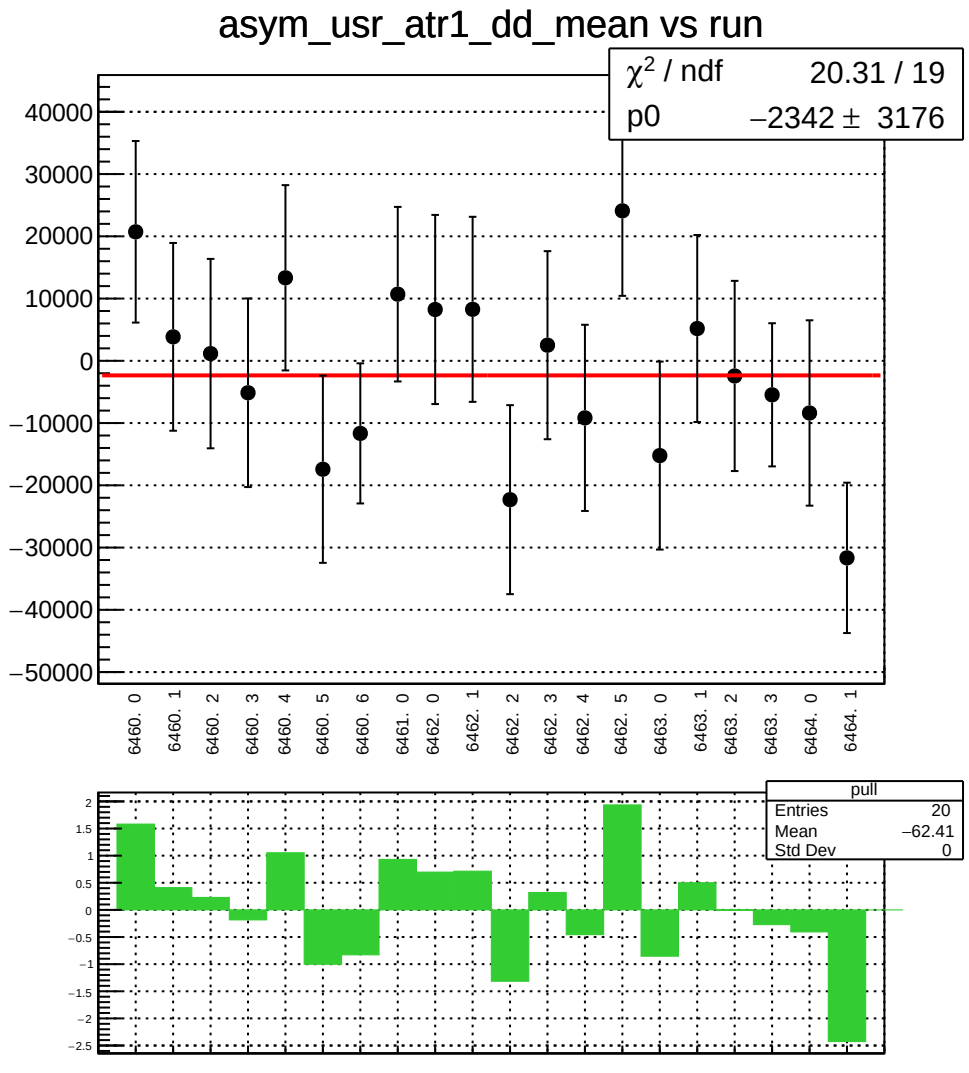

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 21.98 / 19
p0 −1889 ± 2927
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −93.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.02714
Std Dev 1.048
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

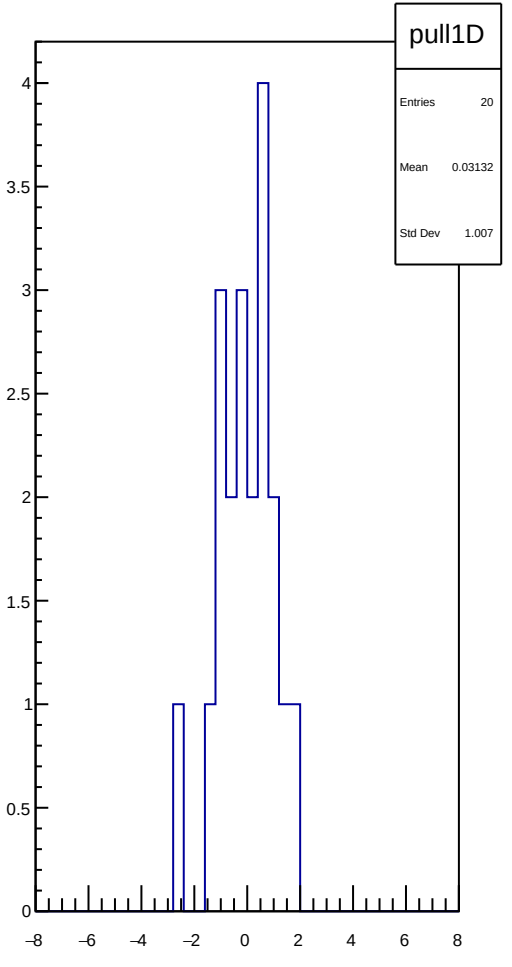

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 17.78 / 19
p0 1317 ± 2.07
1340
1330
1320
1310
1300
1290
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

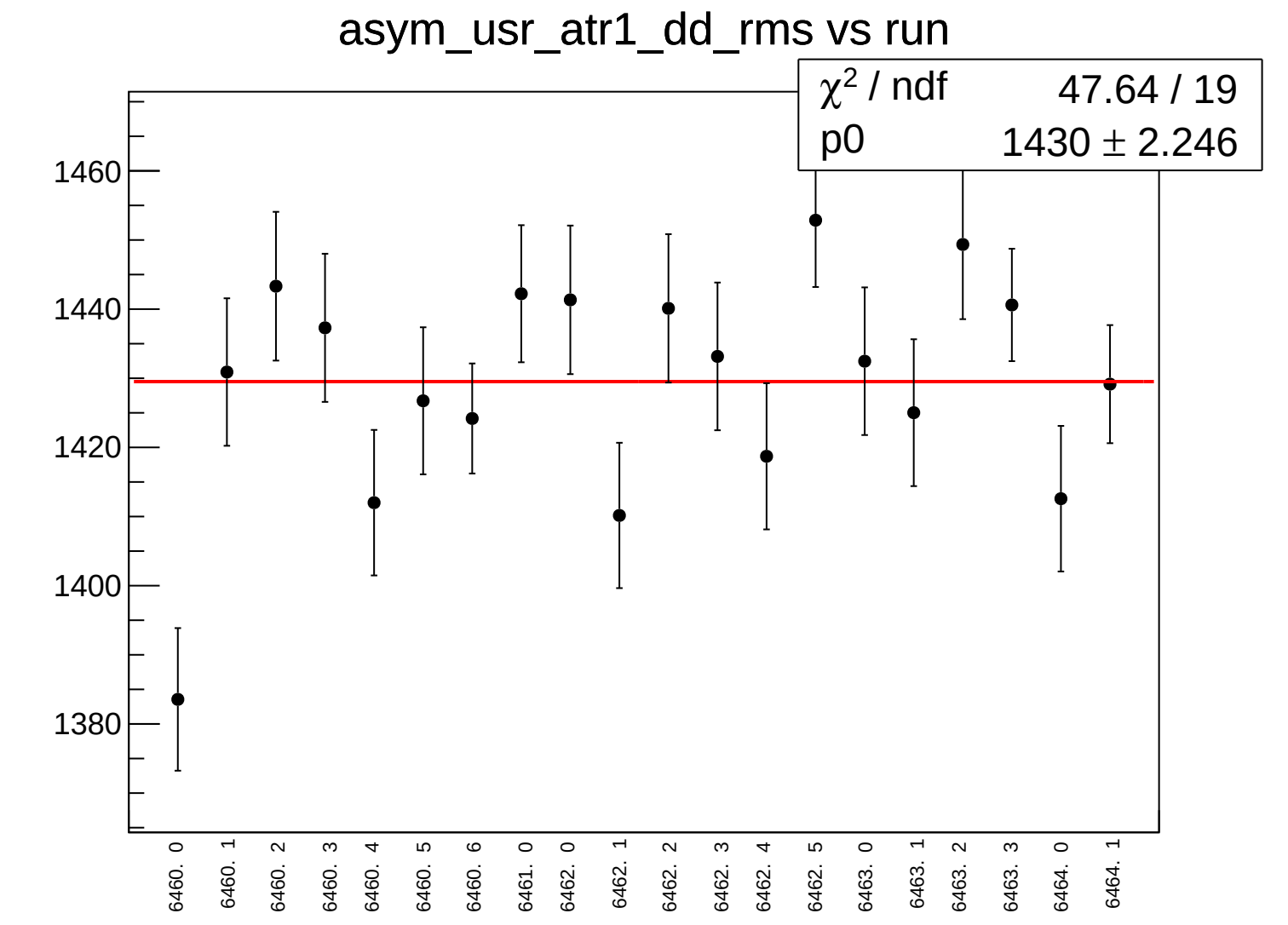

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 12.97 / 19
p0 529 ± 1251
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 50.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

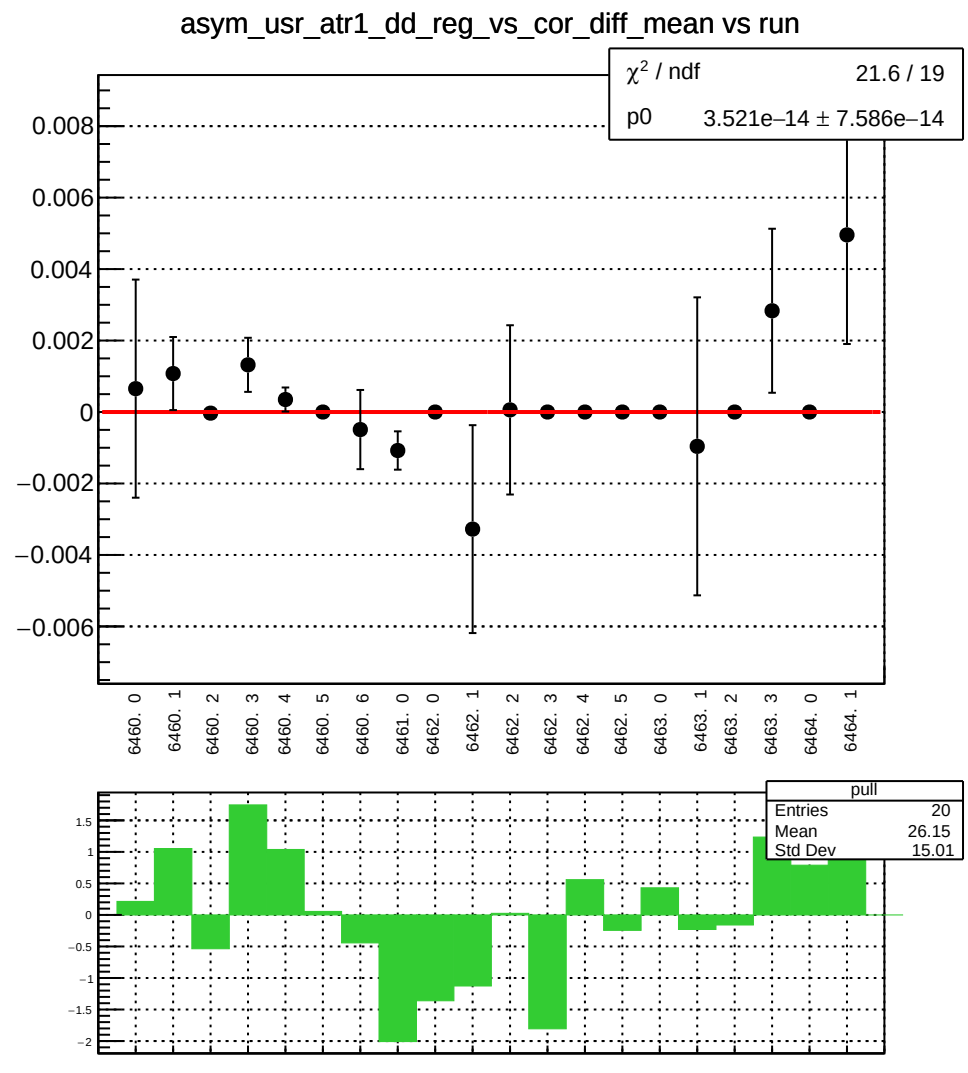

pull1D
Entries 20
Mean −0.02233
Std Dev 0.8051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

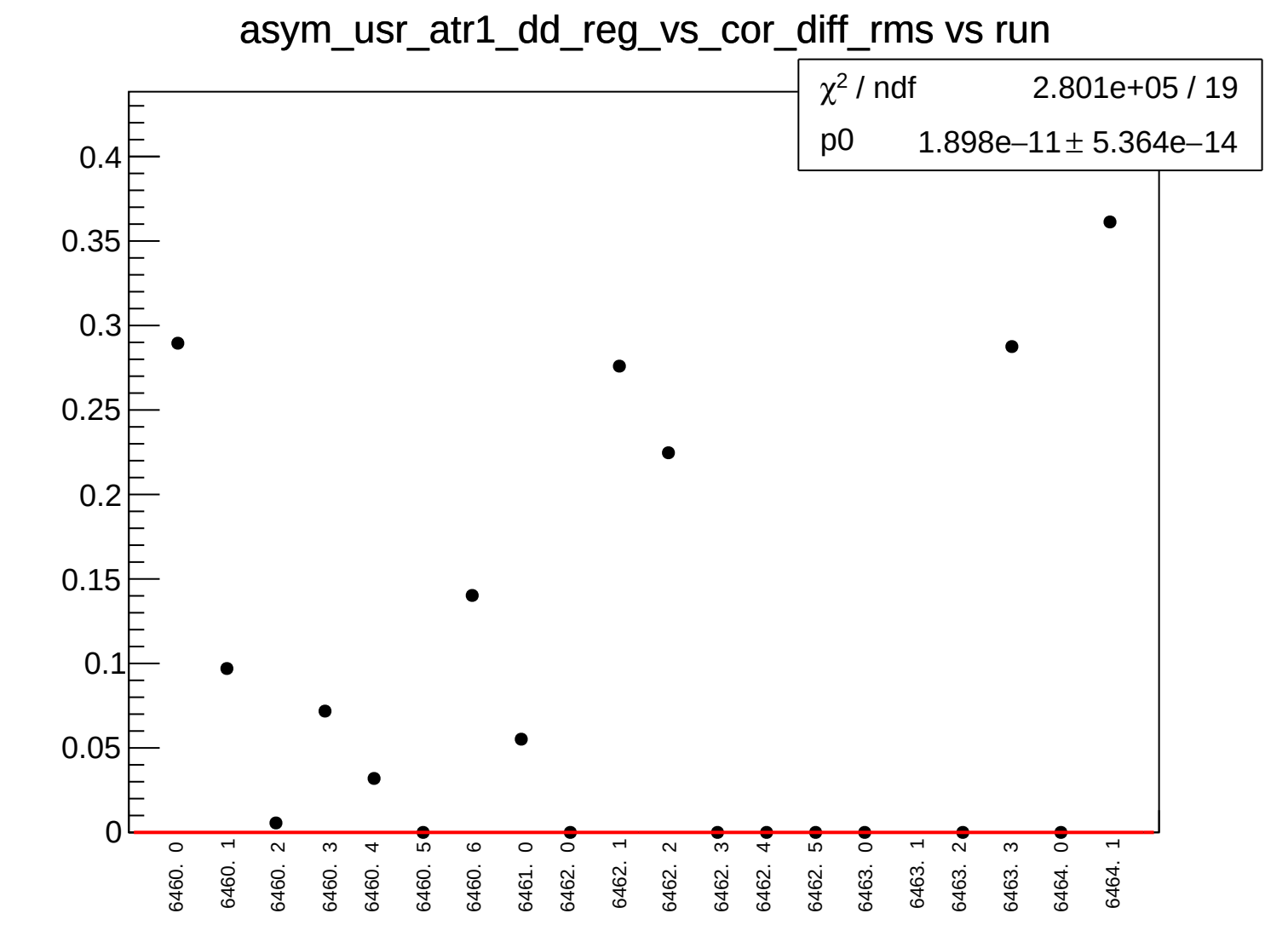

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 996.1 / 19
p0 562.4 ± 0.8845
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

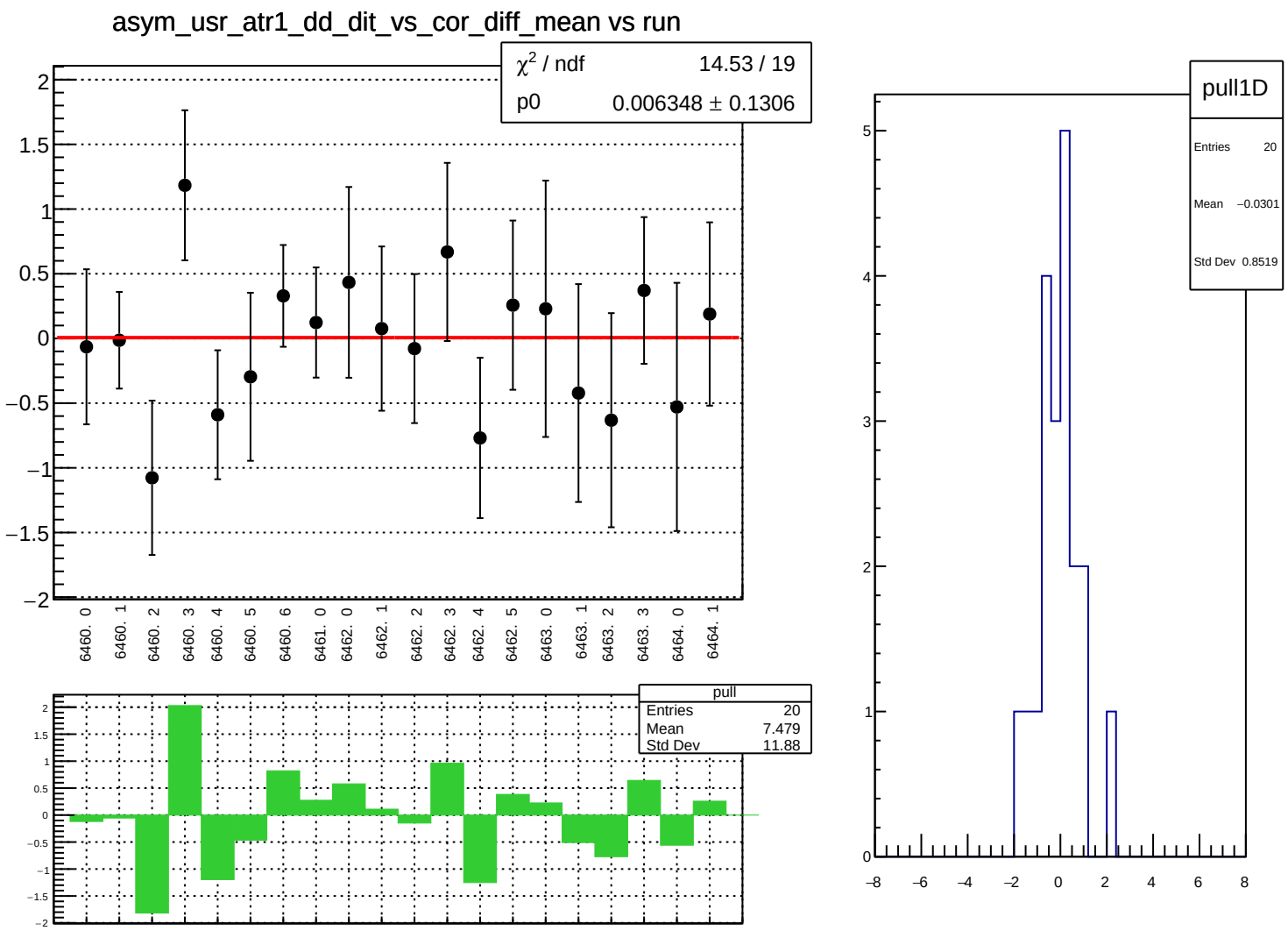

asym_usr_atr1_dd_mean vs run
χ² / ndf 20.31 / 19
p0 −2342 ± 3176
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −62.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

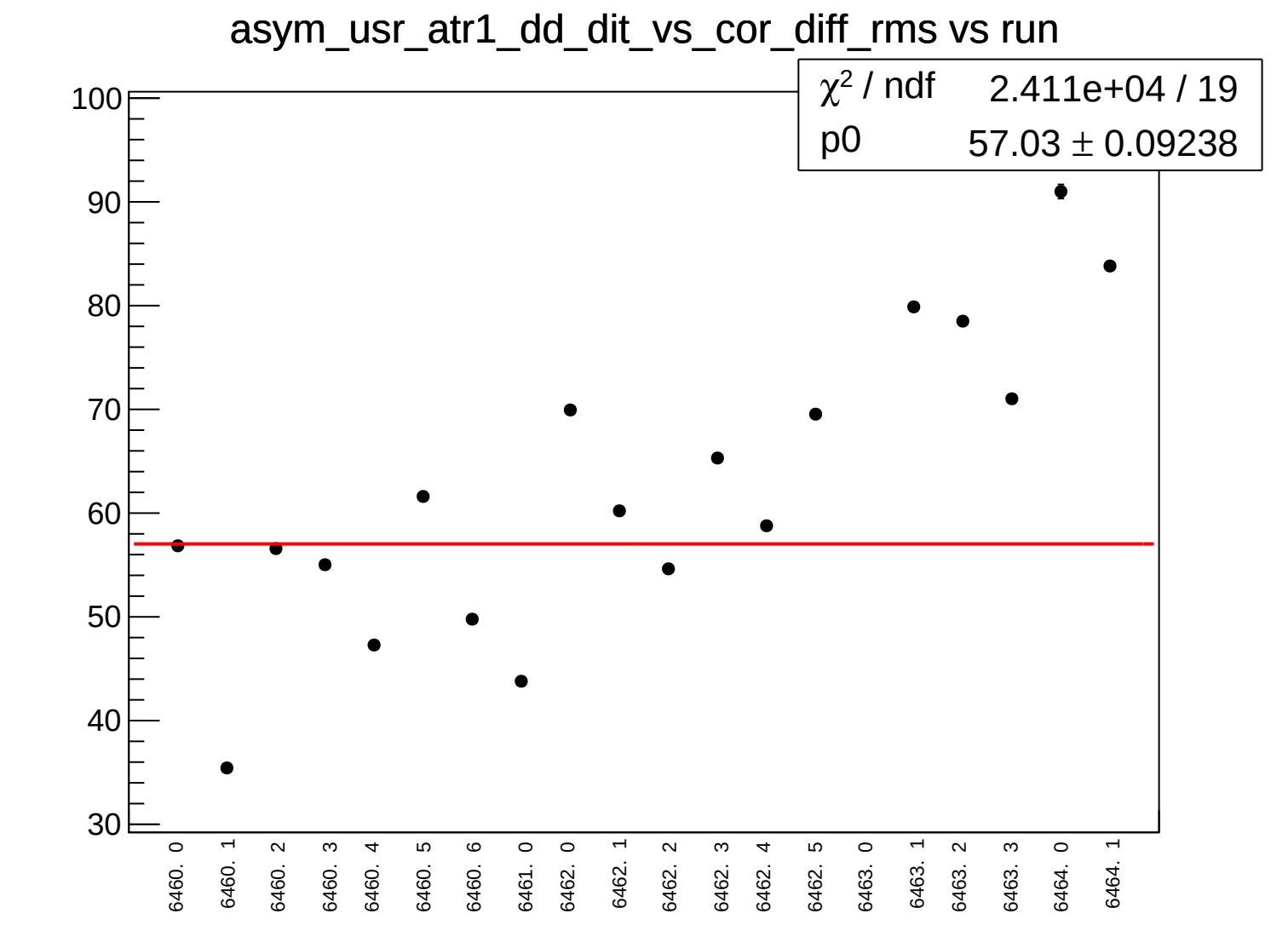

pull1D
Entries 20
Mean 0.03132
Std Dev 1.007
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

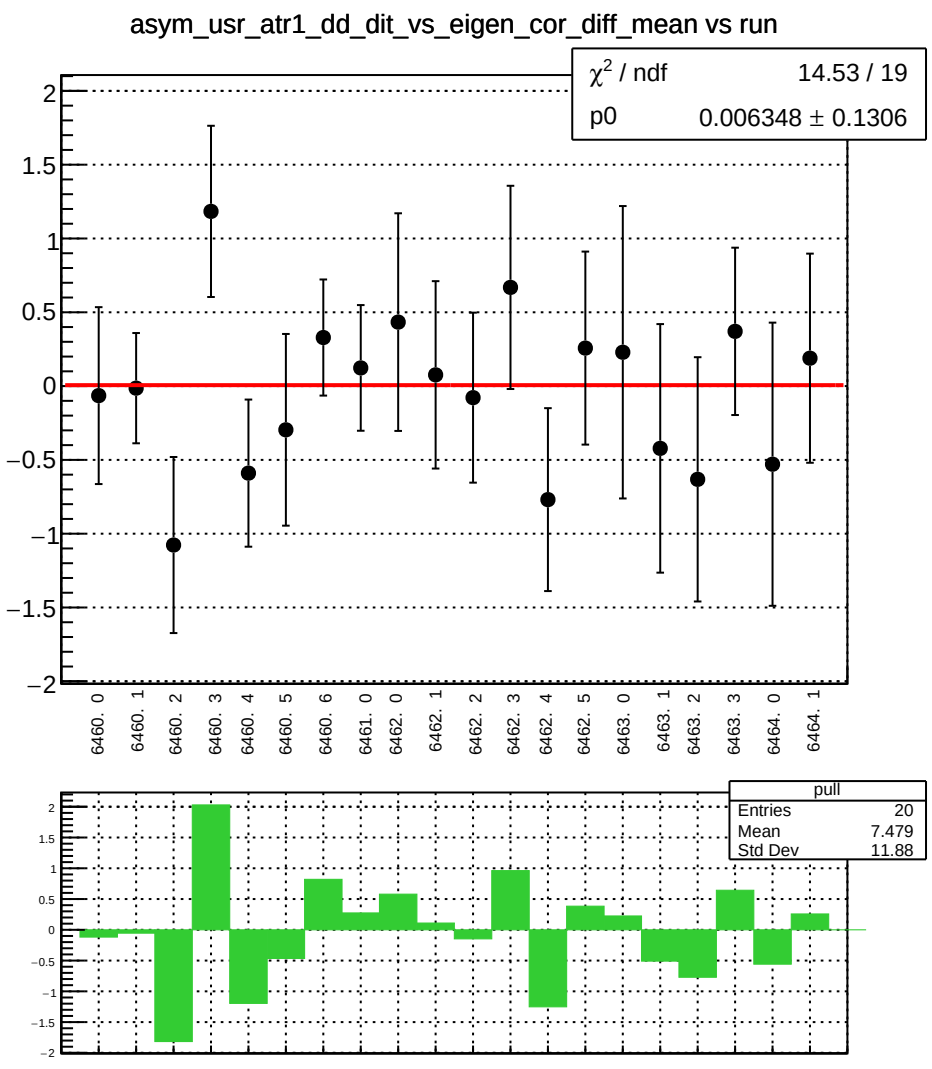

asym_usr_atr1_dd_rms vs run
χ² / ndf 47.64 / 19
p0 1430 ± 2.246
1460
1440
1420
1400
1380
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

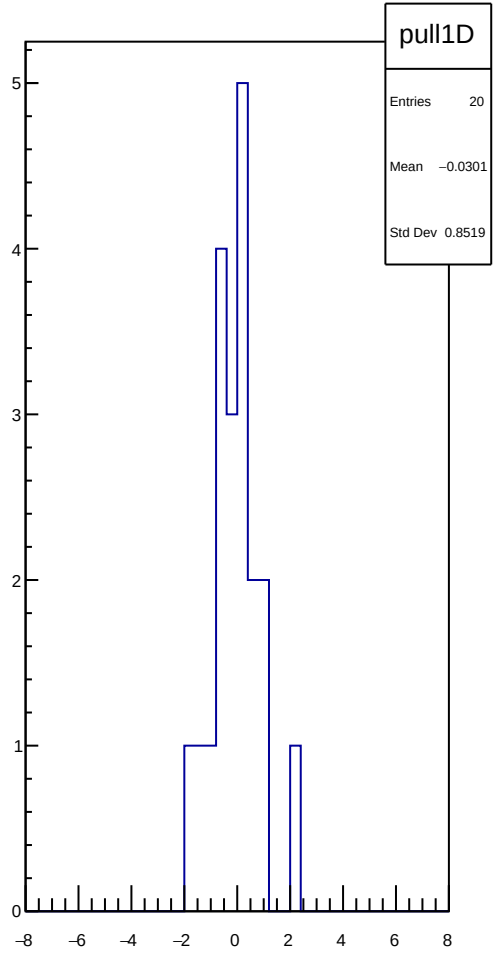

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.6 / 19
p0 3.521e−14 ± 7.586e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.15
Std Dev 15.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.04264
Std Dev 1.038
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

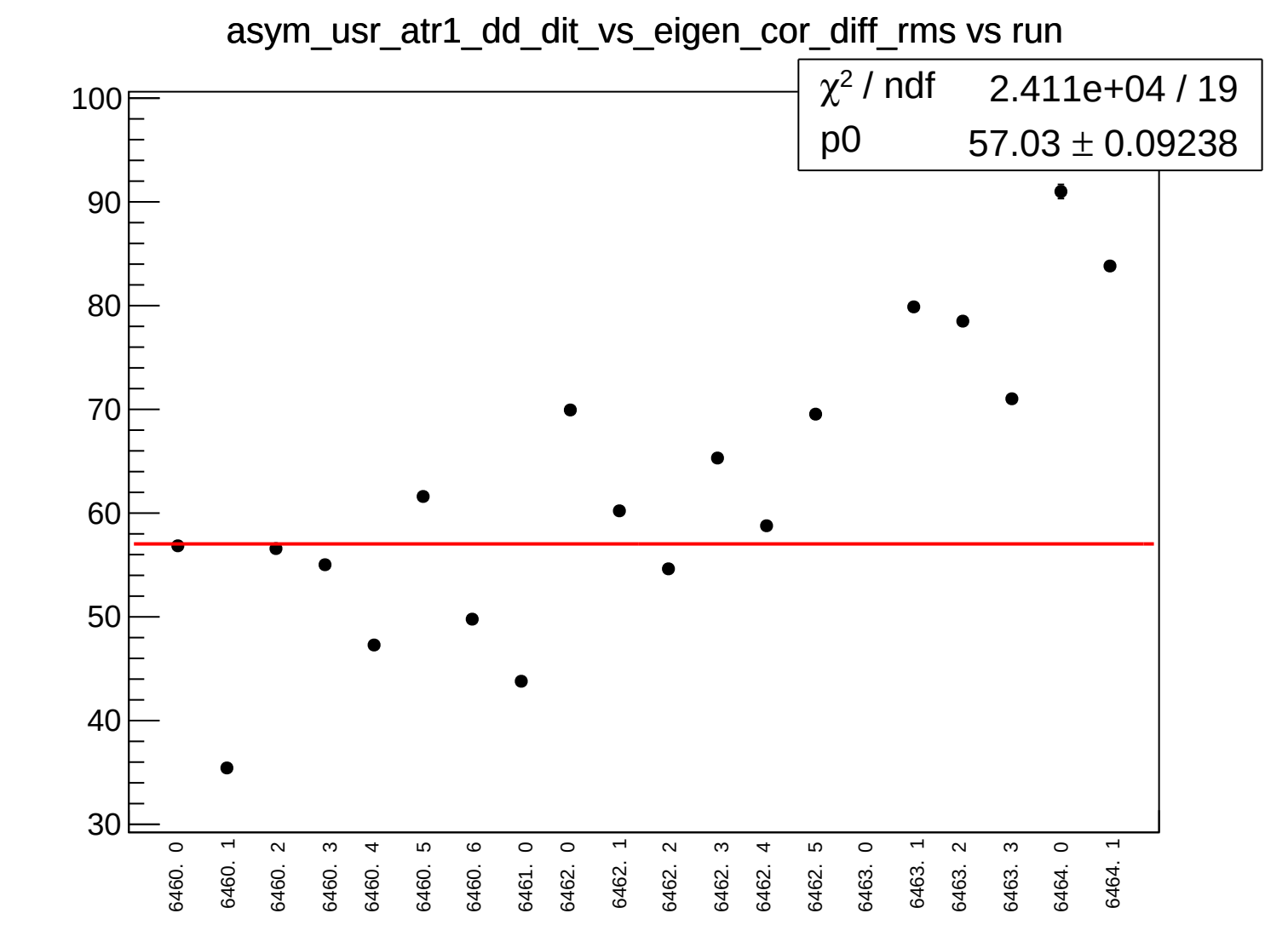

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.801e+05 / 19
p0 1.898e−11 ± 5.364e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

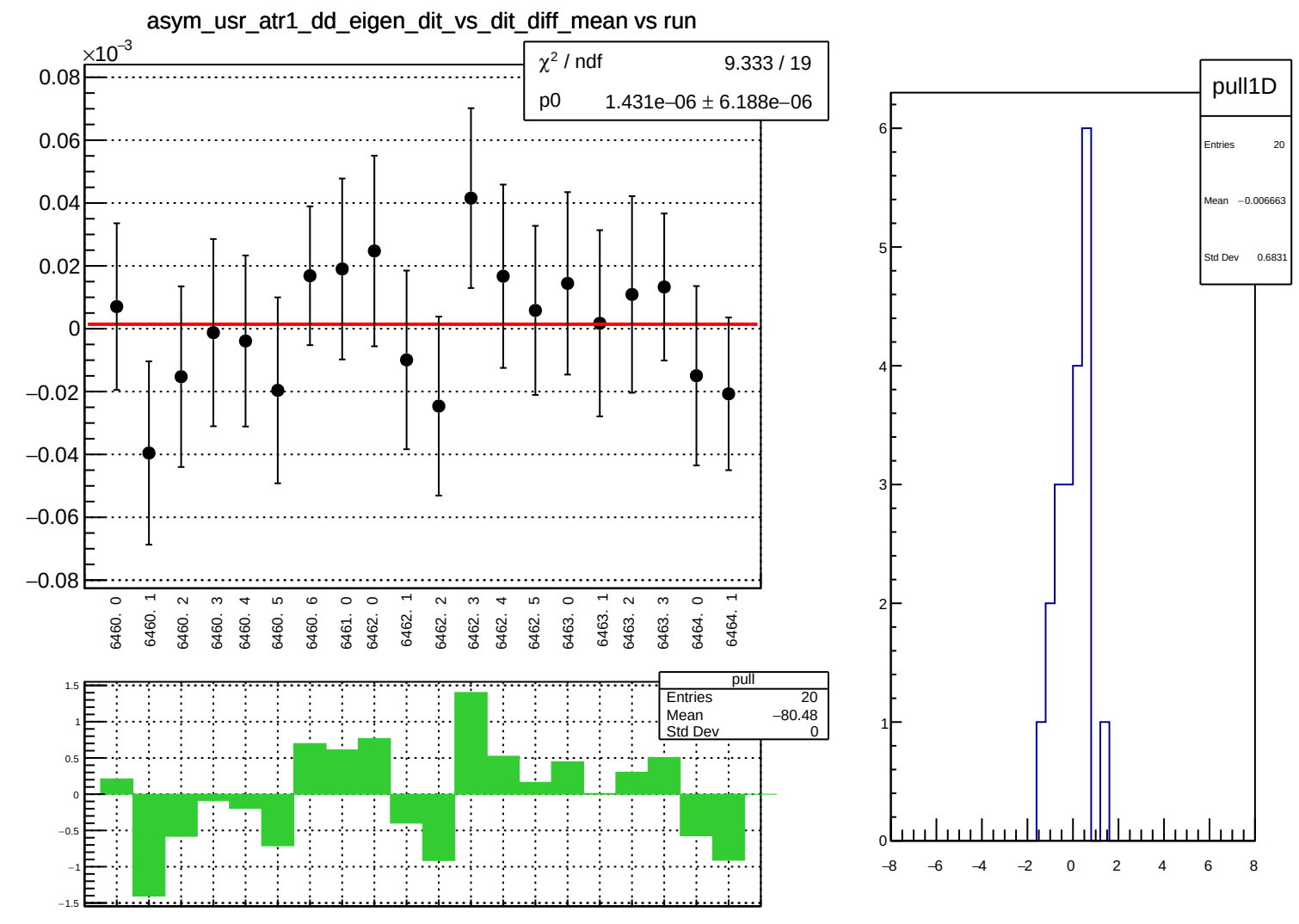

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 14.53 / 19
p0 0.006348 ± 0.1306
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.479
Std Dev 11.88
pull1D
Entries 20
Mean −0.0301
Std Dev 0.8519
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

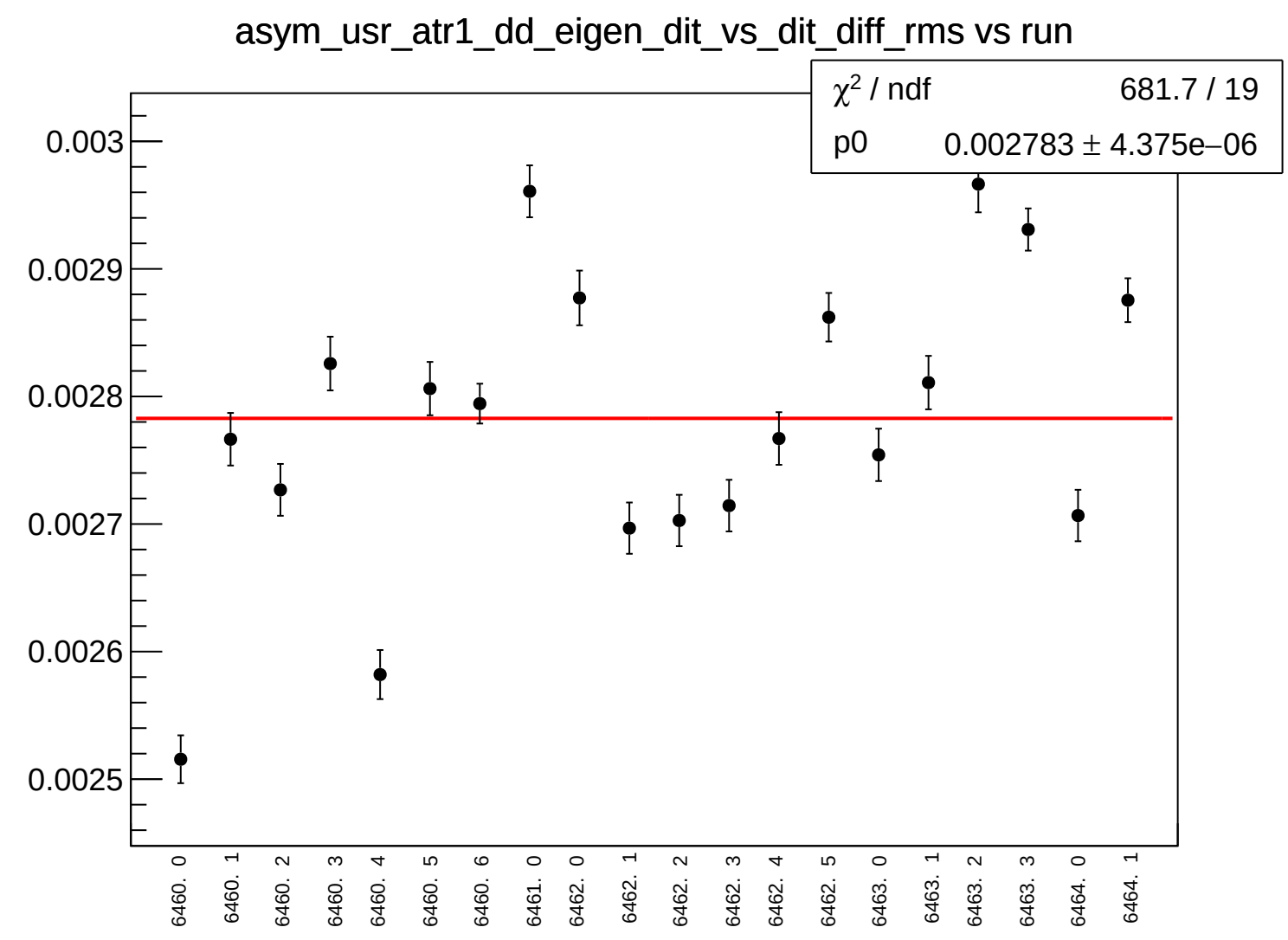

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.411e+04 / 19
p0 57.03 ± 0.09238
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

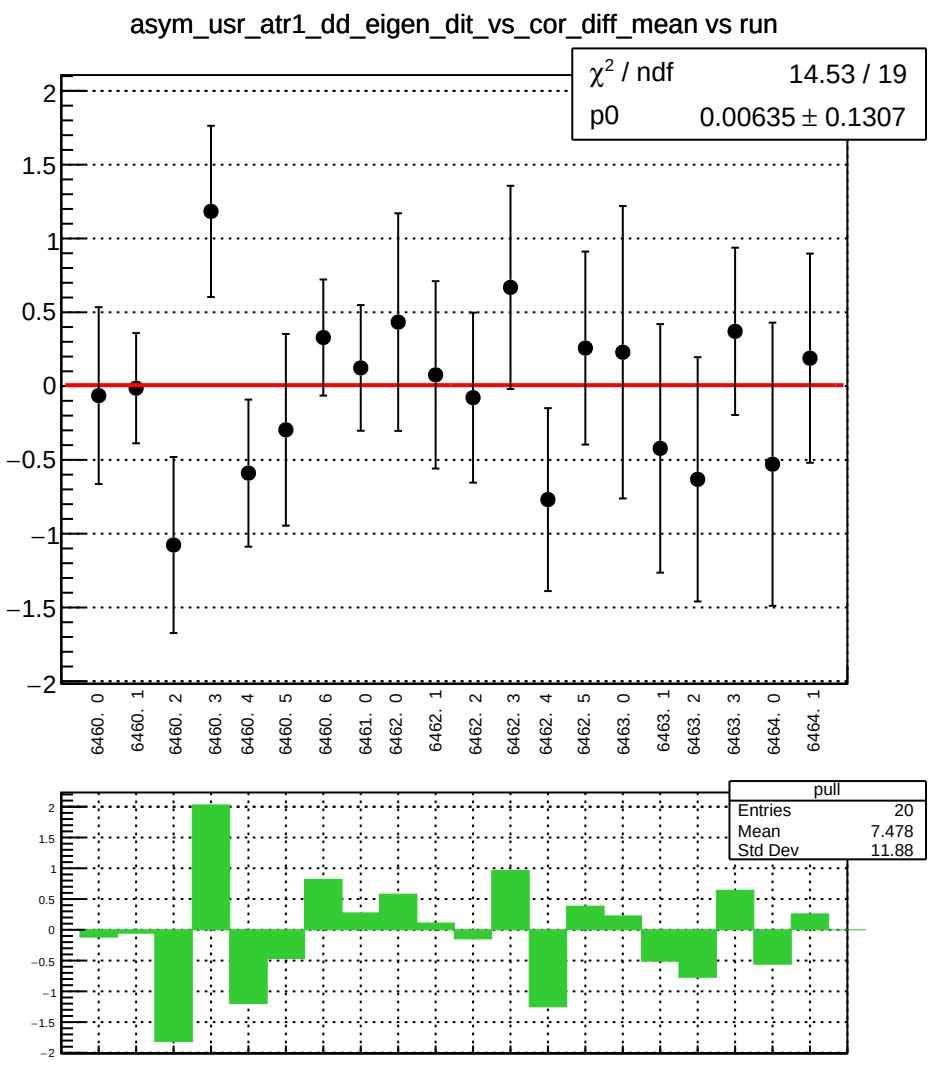

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.53 / 19
p0 0.006348 ± 0.1306
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.479
Std Dev 11.88

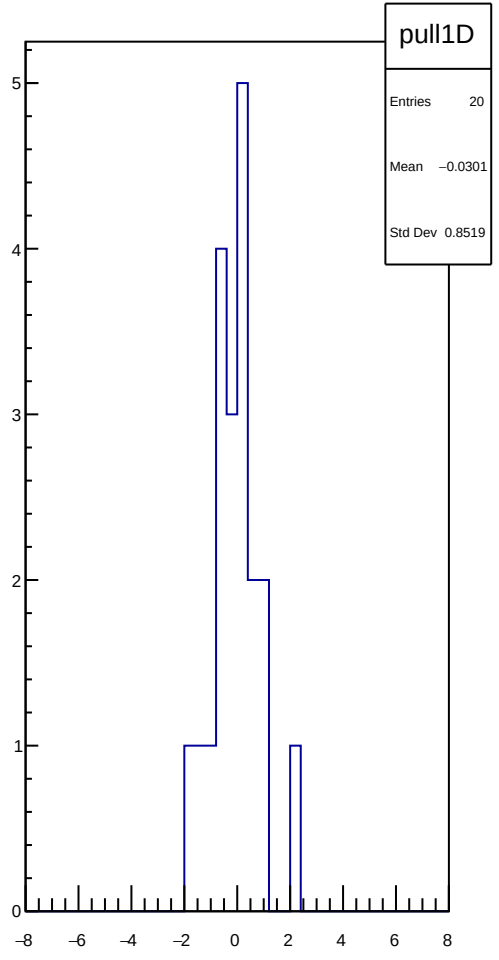

pull1D
Entries 20
Mean −0.0301
Std Dev 0.8519

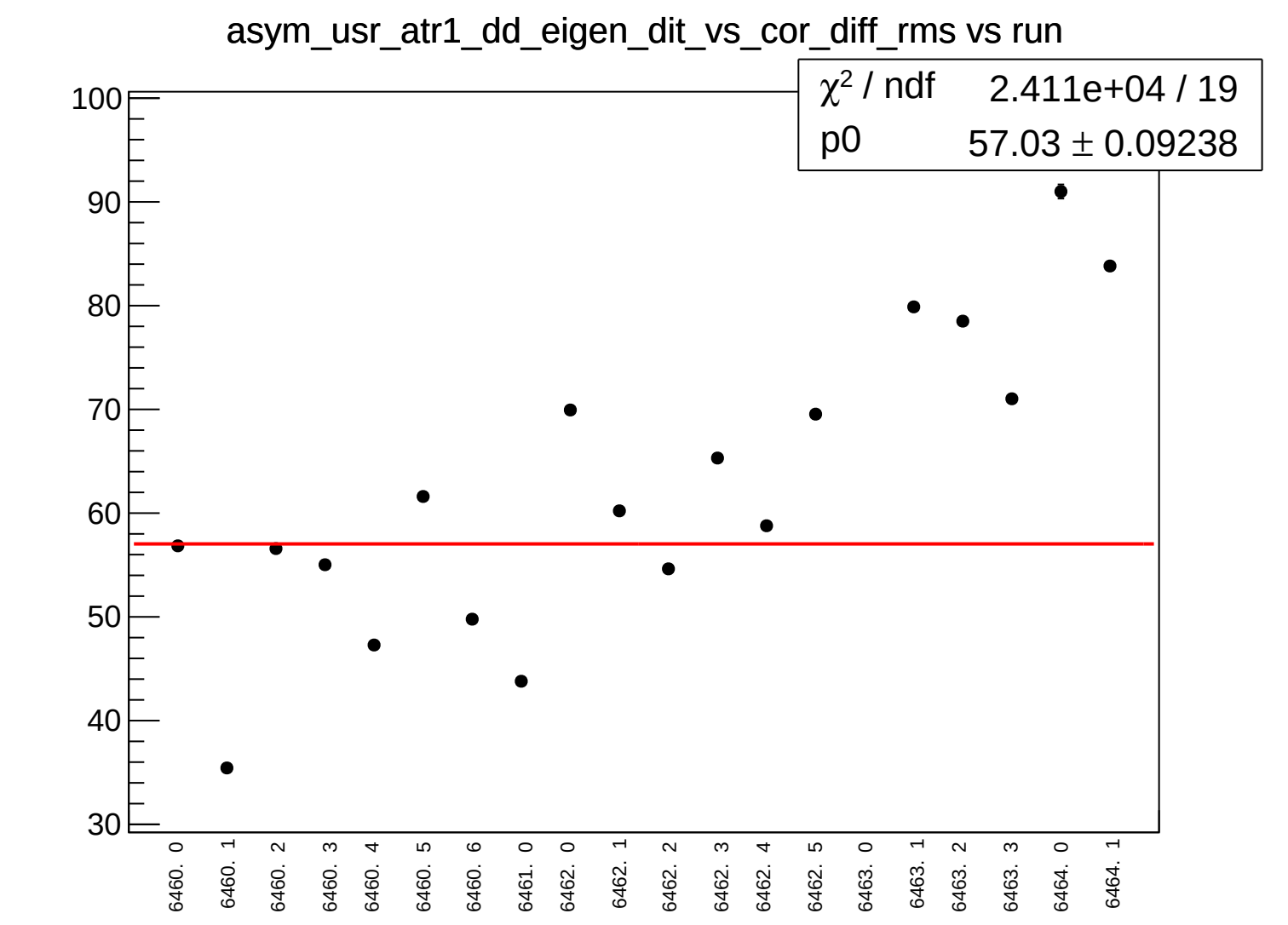

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.411e+04 / 19
p0 57.03 ± 0.09238
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

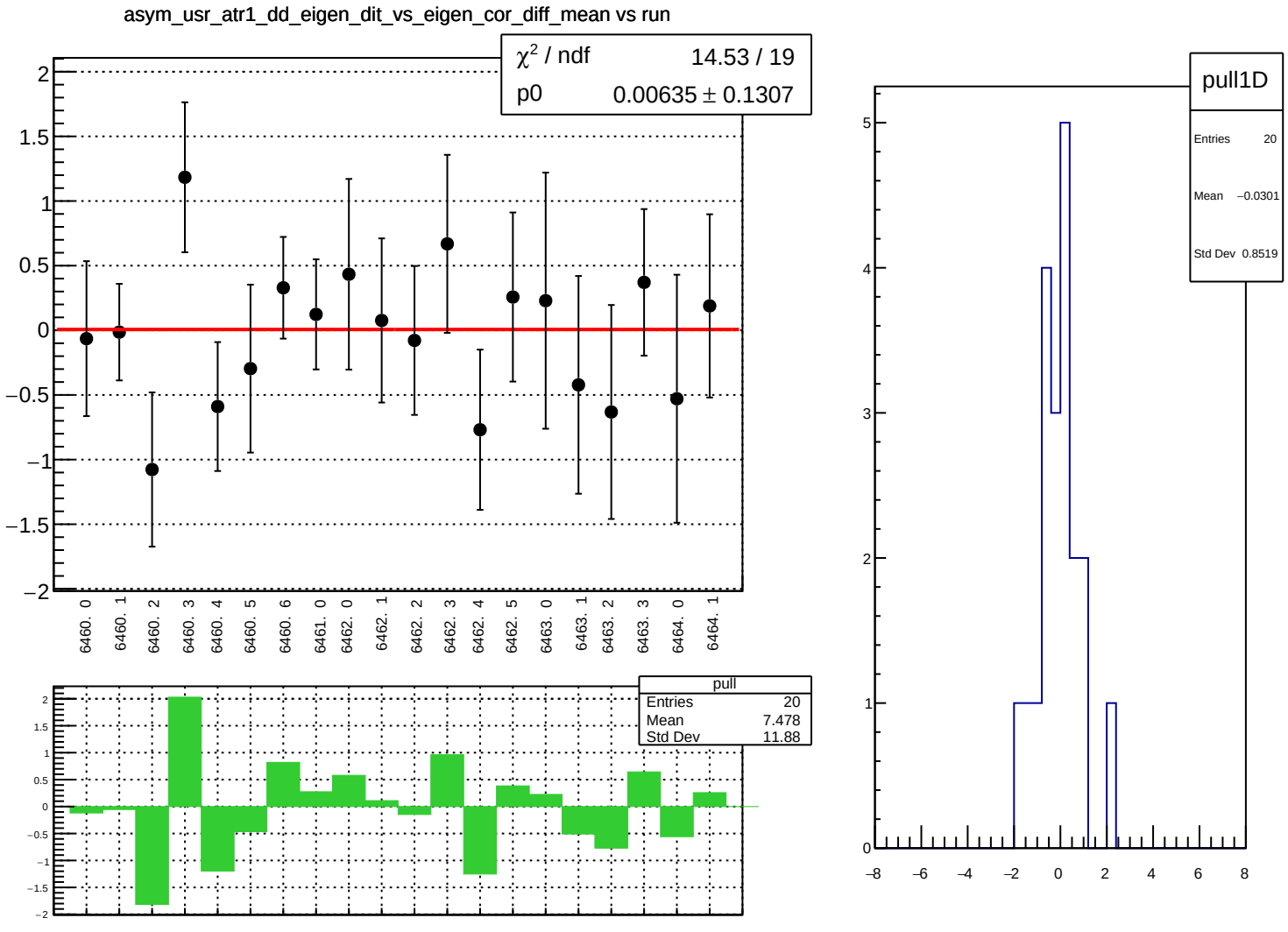

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 9.333 / 19
p0 1.431e−06 ± 6.188e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −80.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.006663
Std Dev 0.6831
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

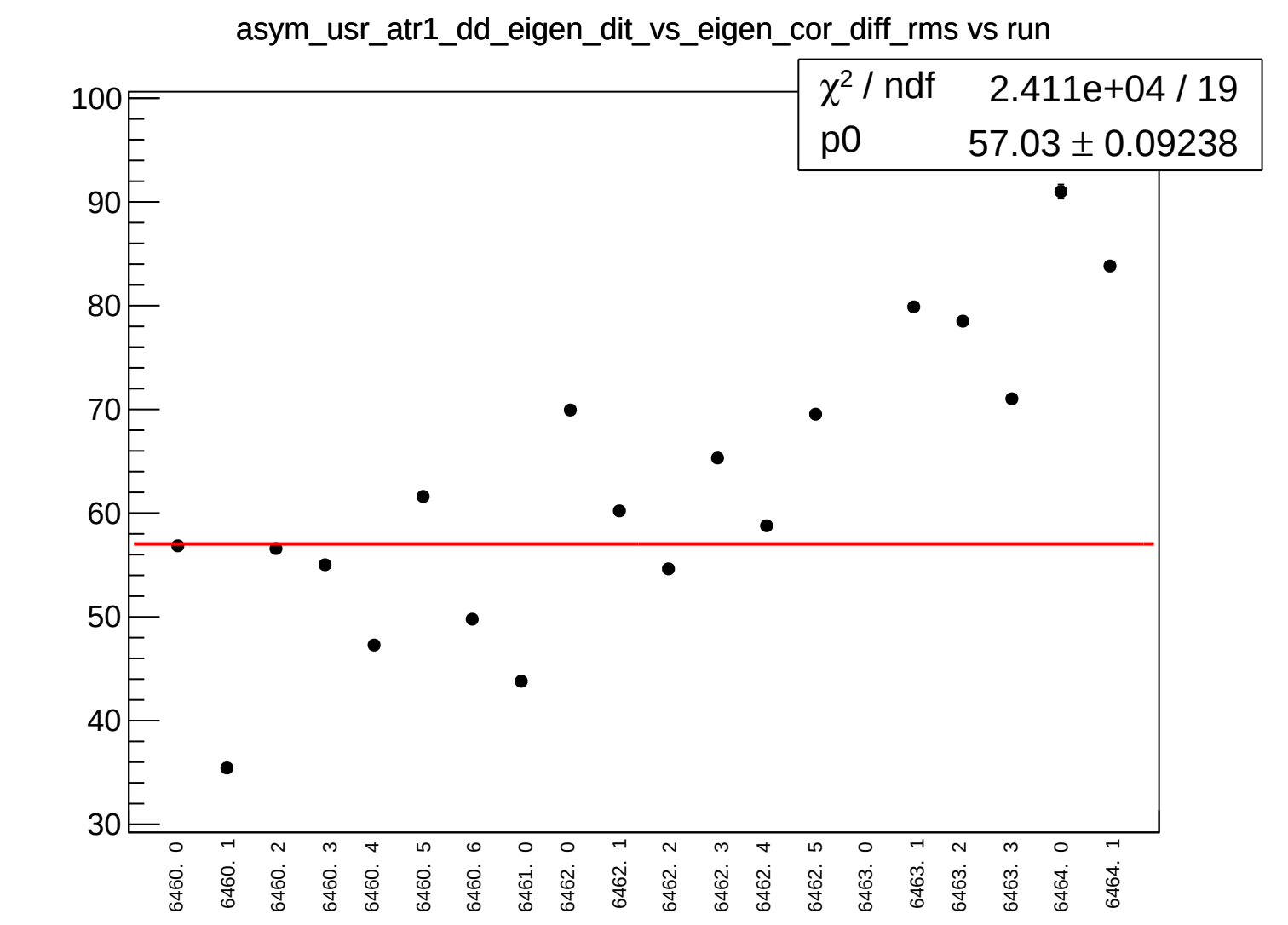

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 681.7 / 19
p0 0.002783 ± 4.375e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

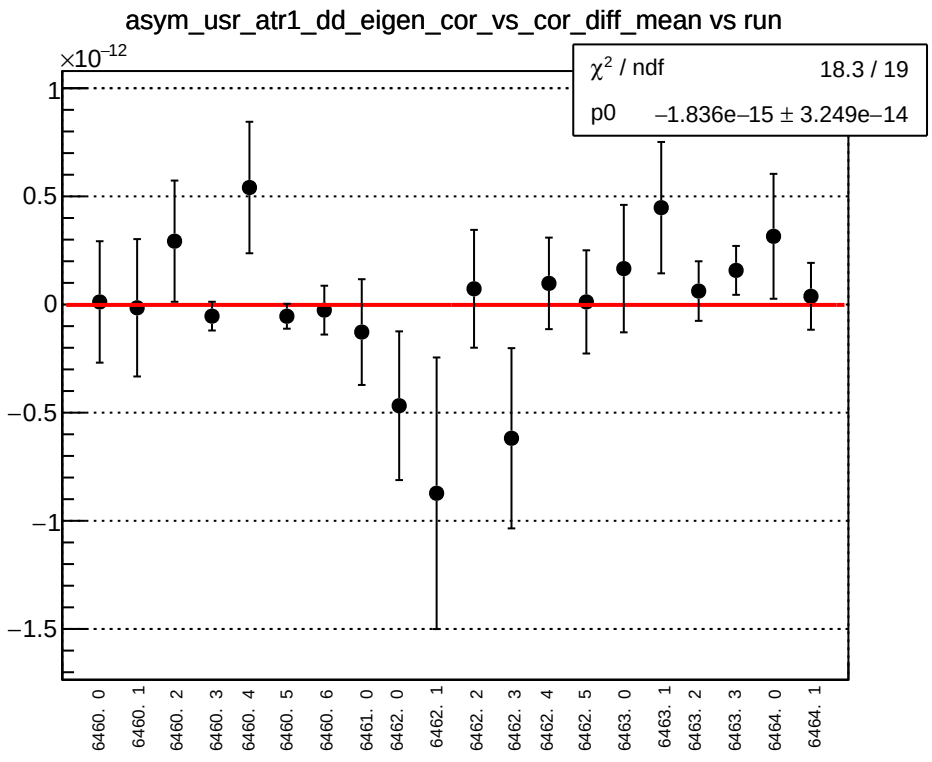

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 14.53 / 19
p0 0.00635 ± 0.1307
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.478
Std Dev 11.88

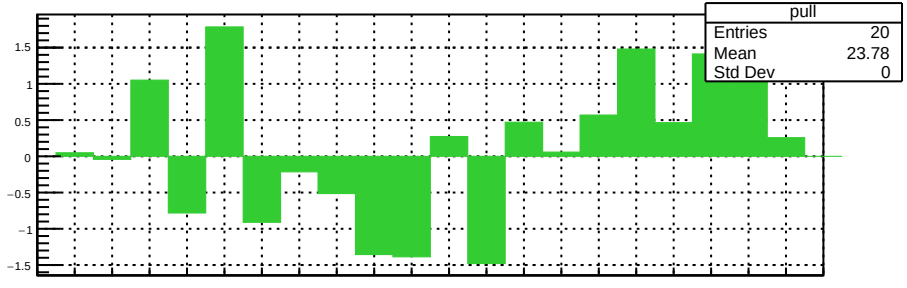

pull1D
Entries 20
Mean −0.0301
Std Dev 0.8519

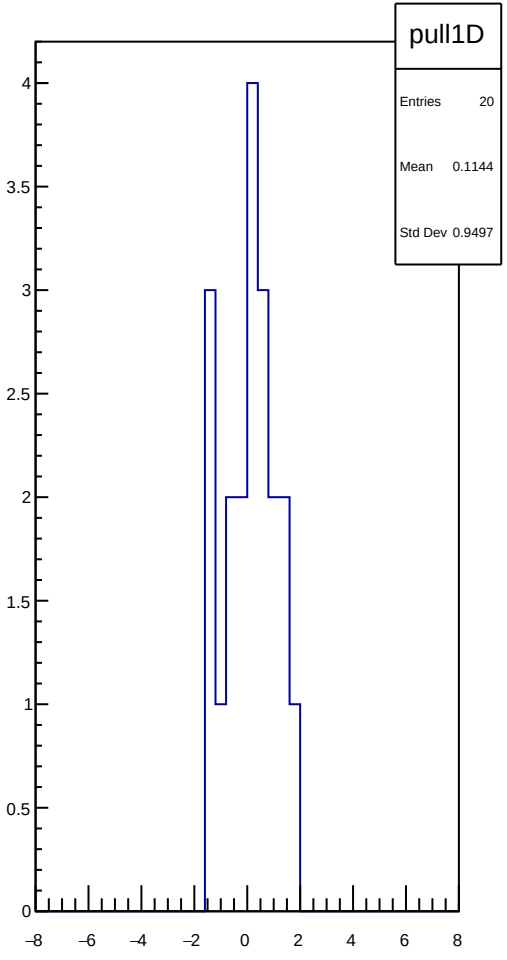

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.411e+04 / 19
p0 57.03 ± 0.09238
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

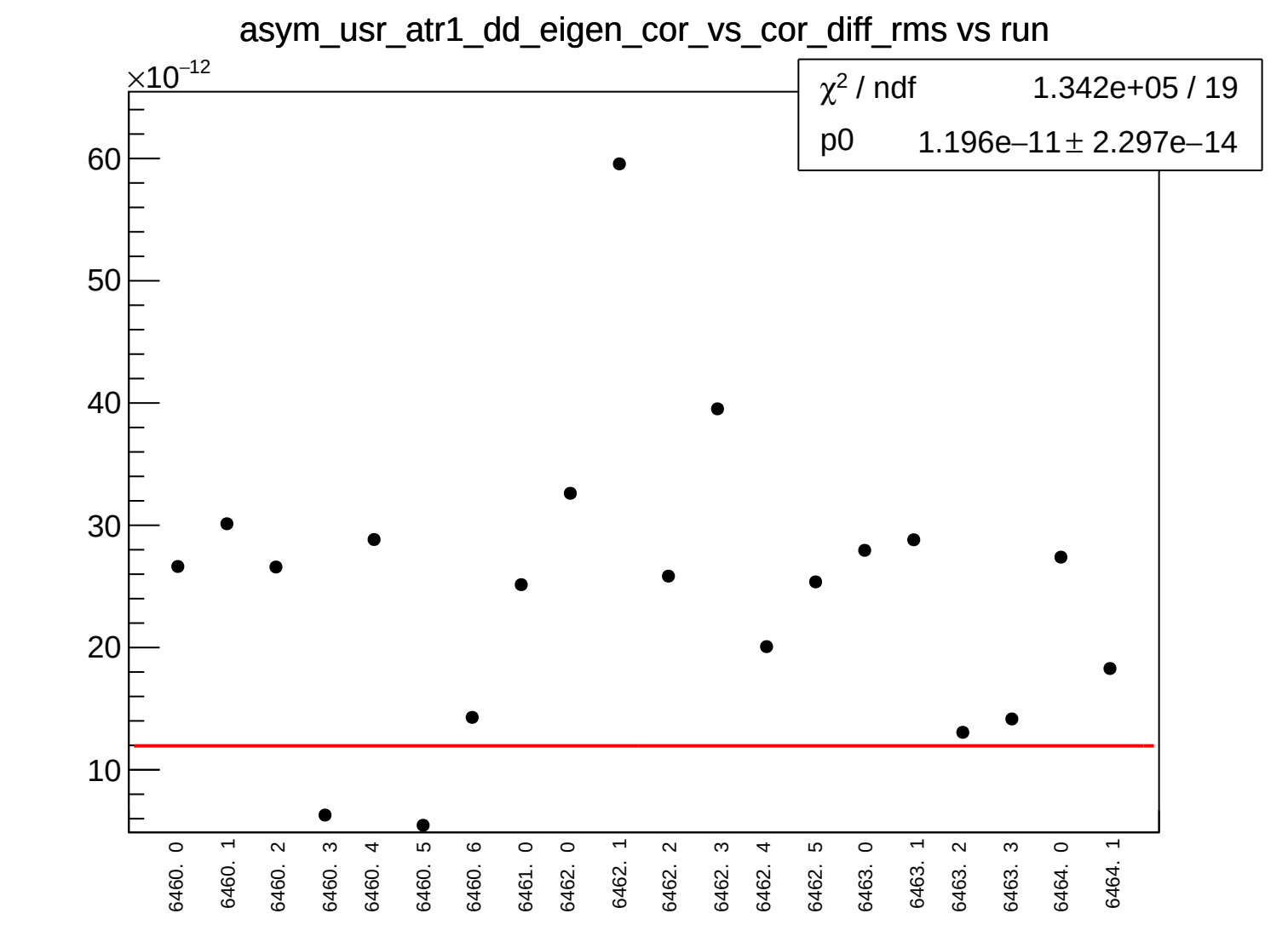

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.53 / 19
p0 0.00635 ± 0.1307
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.478
Std Dev 11.88
pull1D
Entries 20
Mean −0.0301
Std Dev 0.8519
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

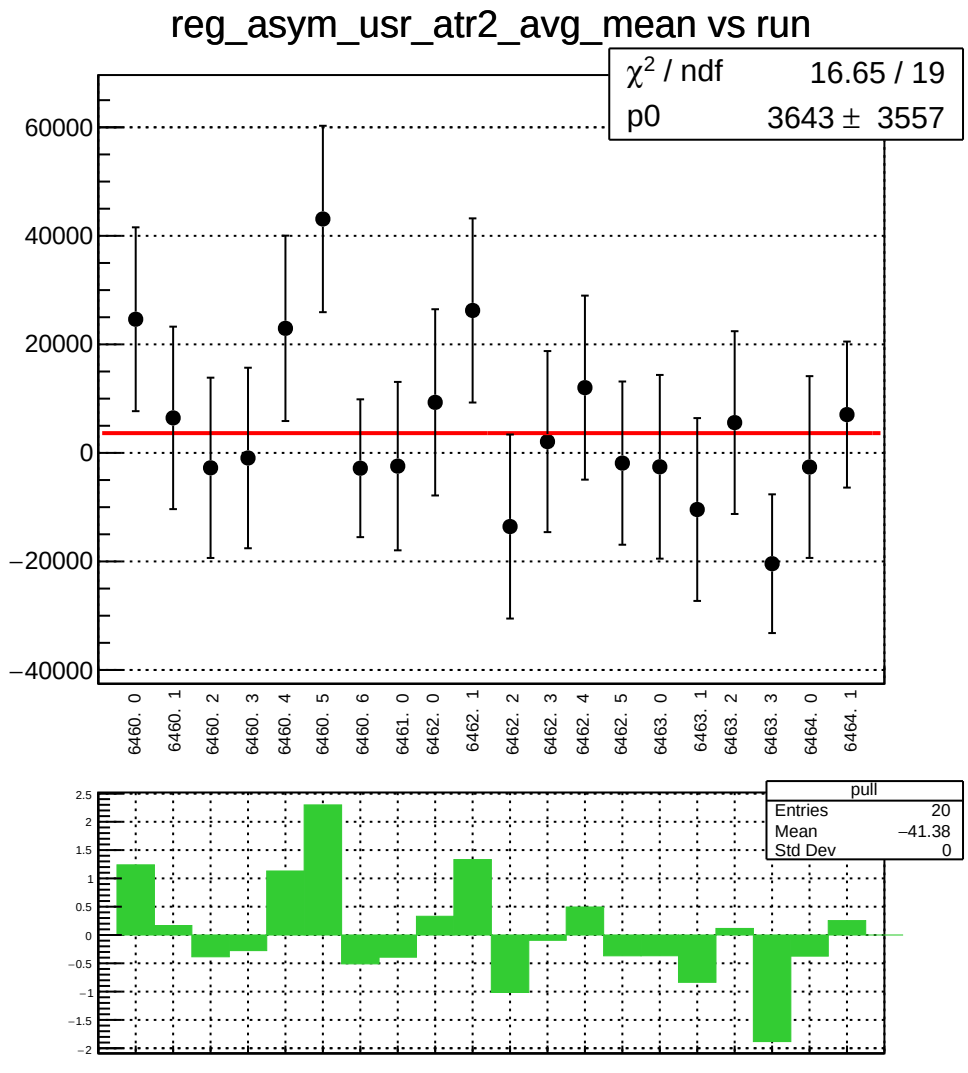

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.411e+04 / 19
p0 57.03 ± 0.09238
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

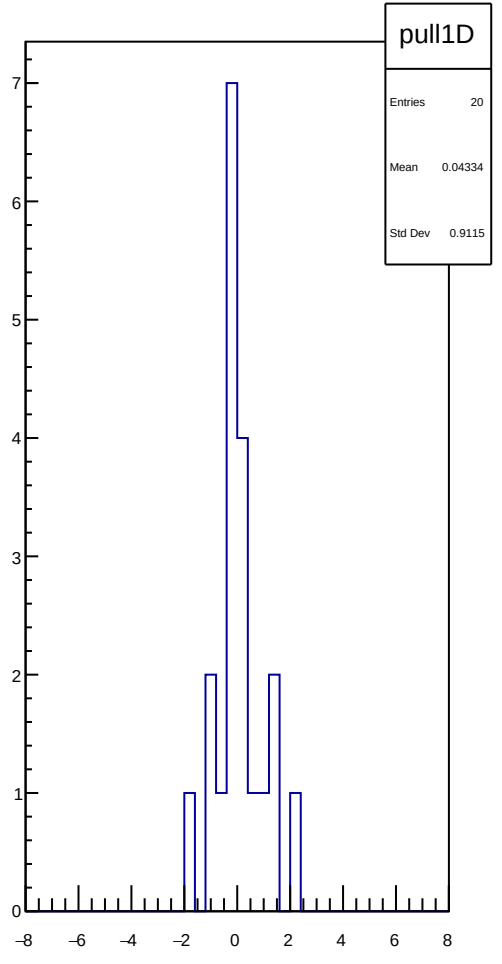

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 18.3 / 19
p0 −1.836e−15 ± 3.249e−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

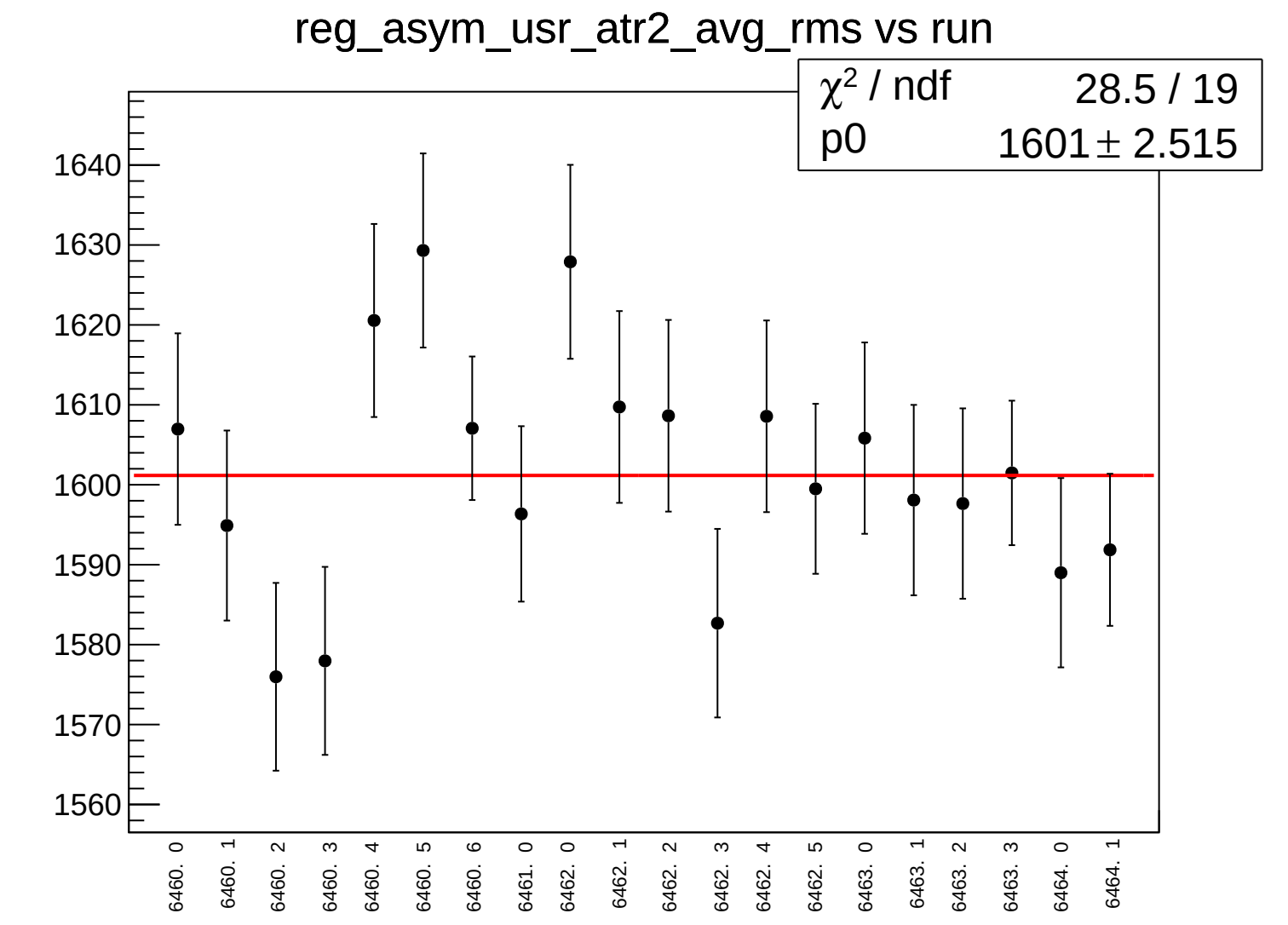

pull
Entries 20
Mean 23.78
Std Dev 0

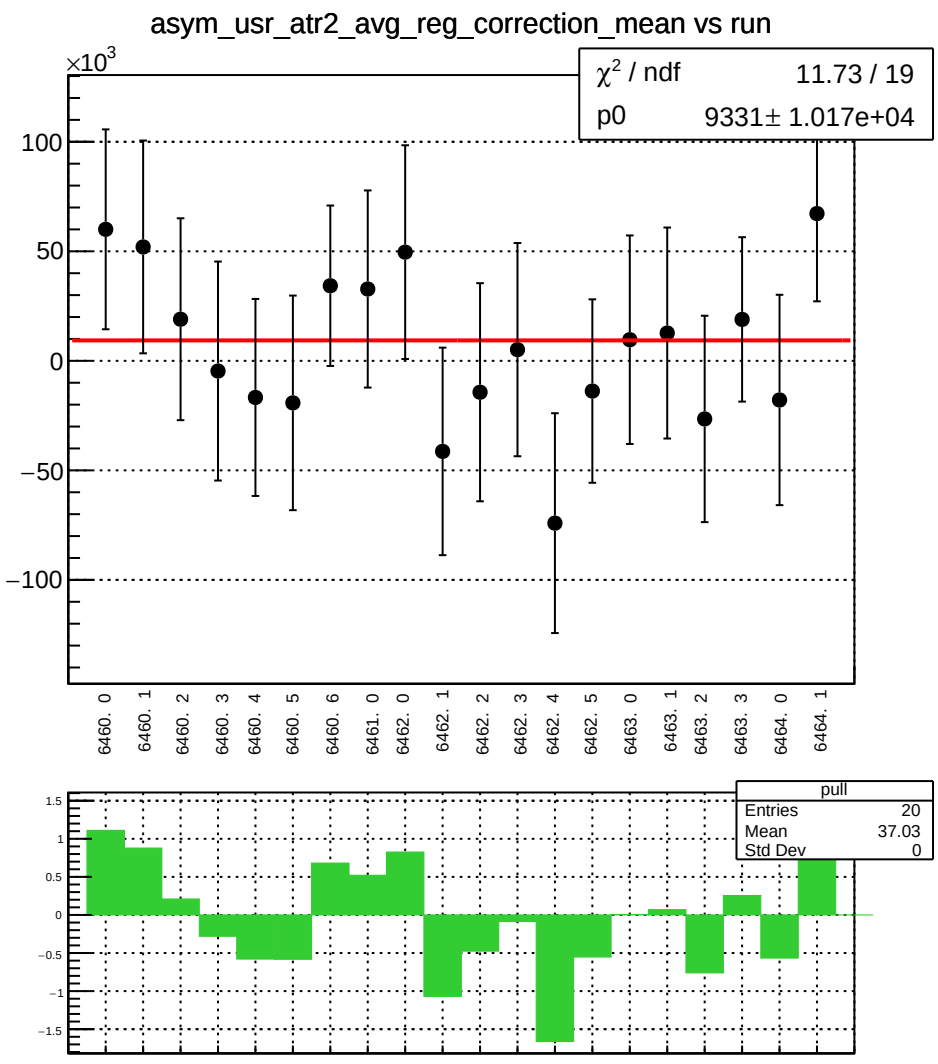

pull1D
Entries 20
Mean 0.1144
Std Dev 0.9497

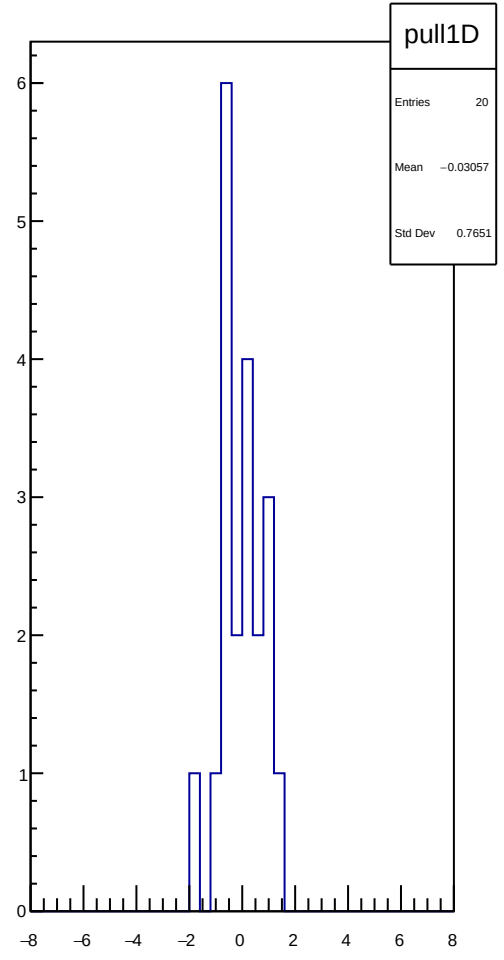

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10−12
χ2 / ndf 1.342e+05 / 19
p0 1.196e−11 ± 2.297e−14
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

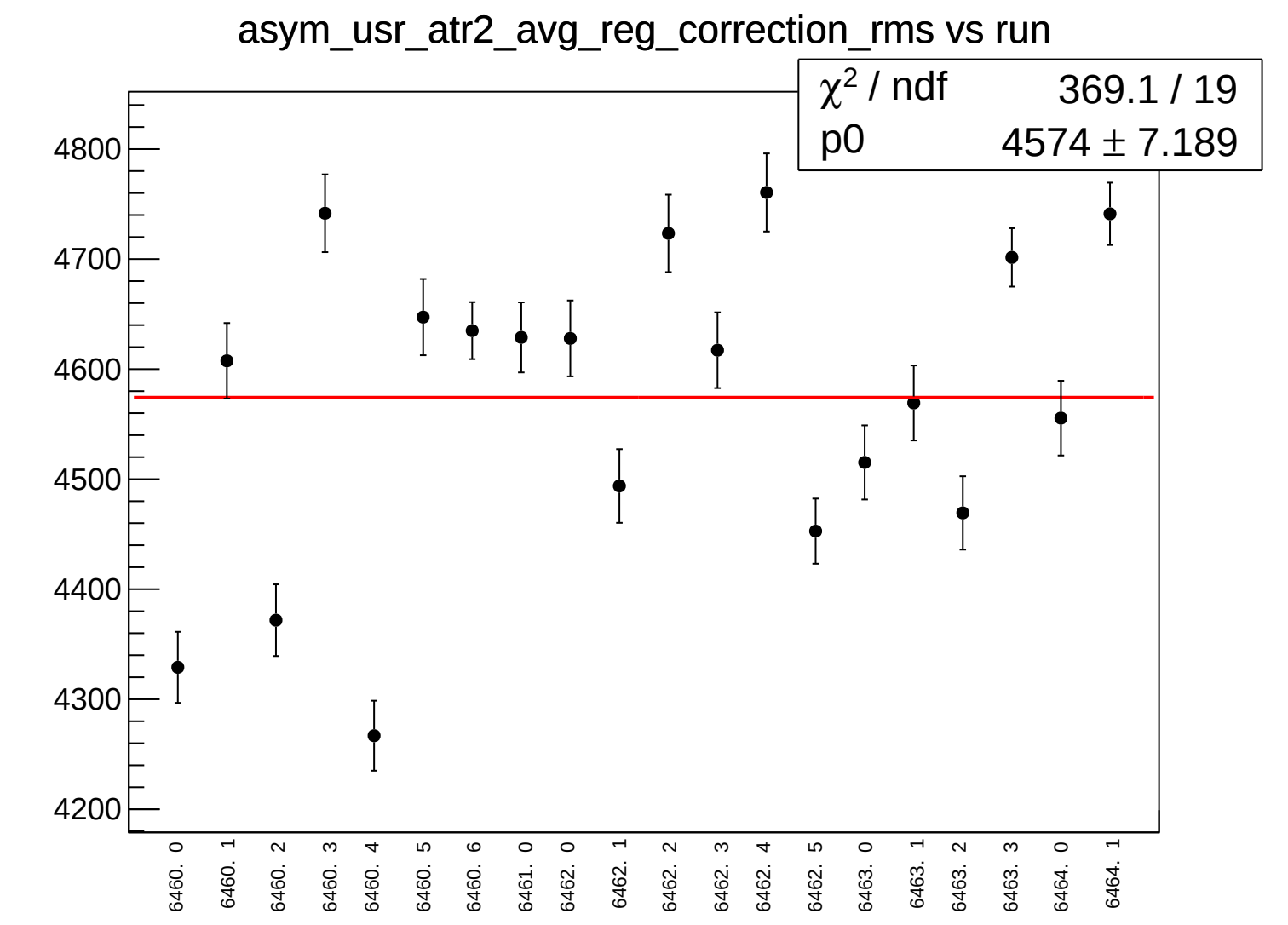

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 16.65 / 19
p0 3643 ± 3557
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −41.38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

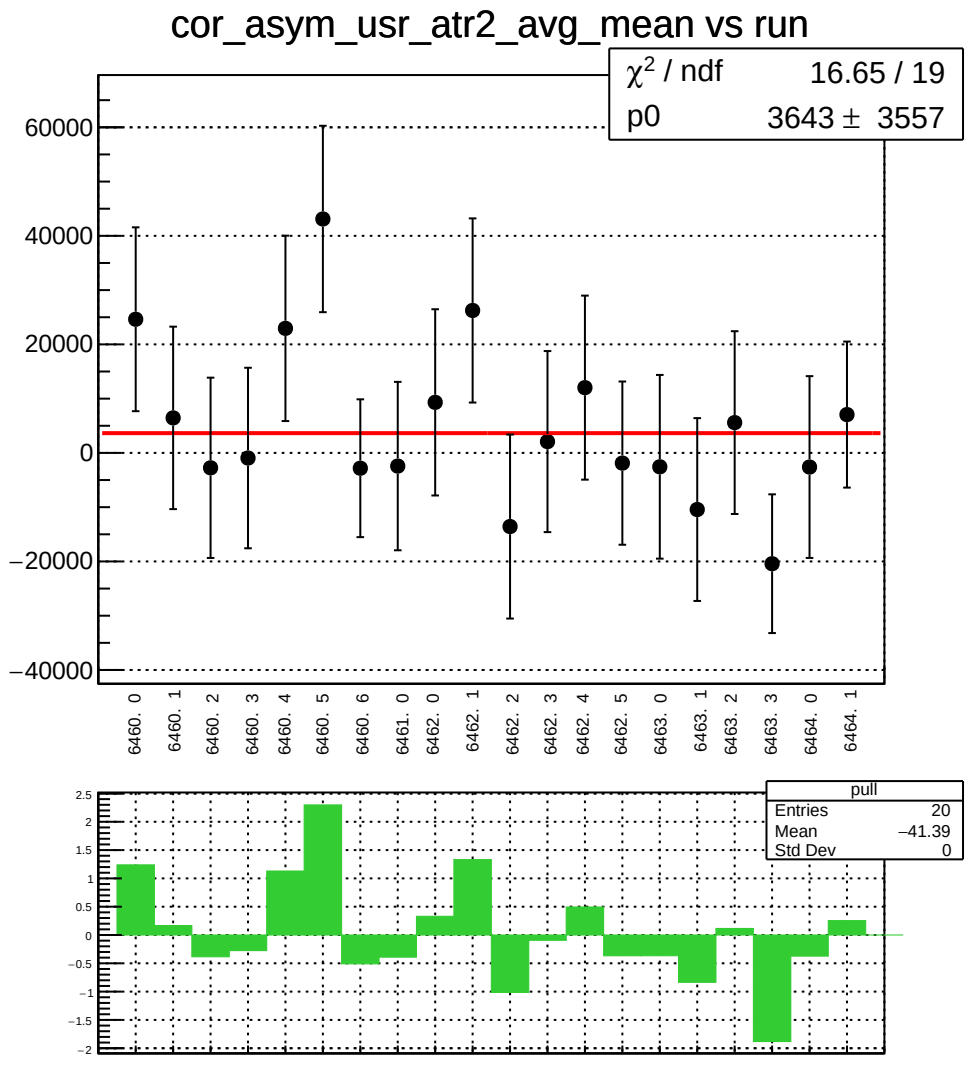

pull1D
Entries 20
Mean 0.04334
Std Dev 0.9115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

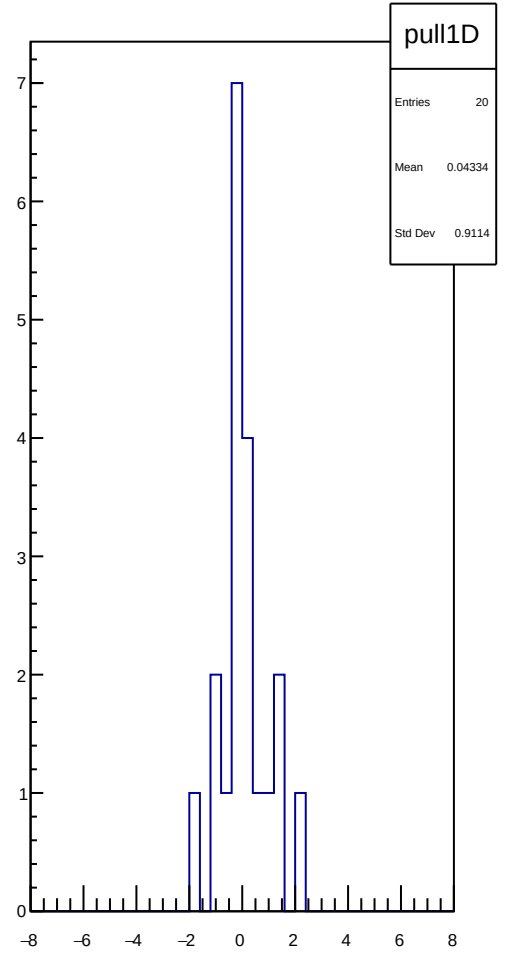

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 28.5 / 19
p0 1601 ± 2.515
1640
1630
1620
1610
1600
1590
1580
1570
1560
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

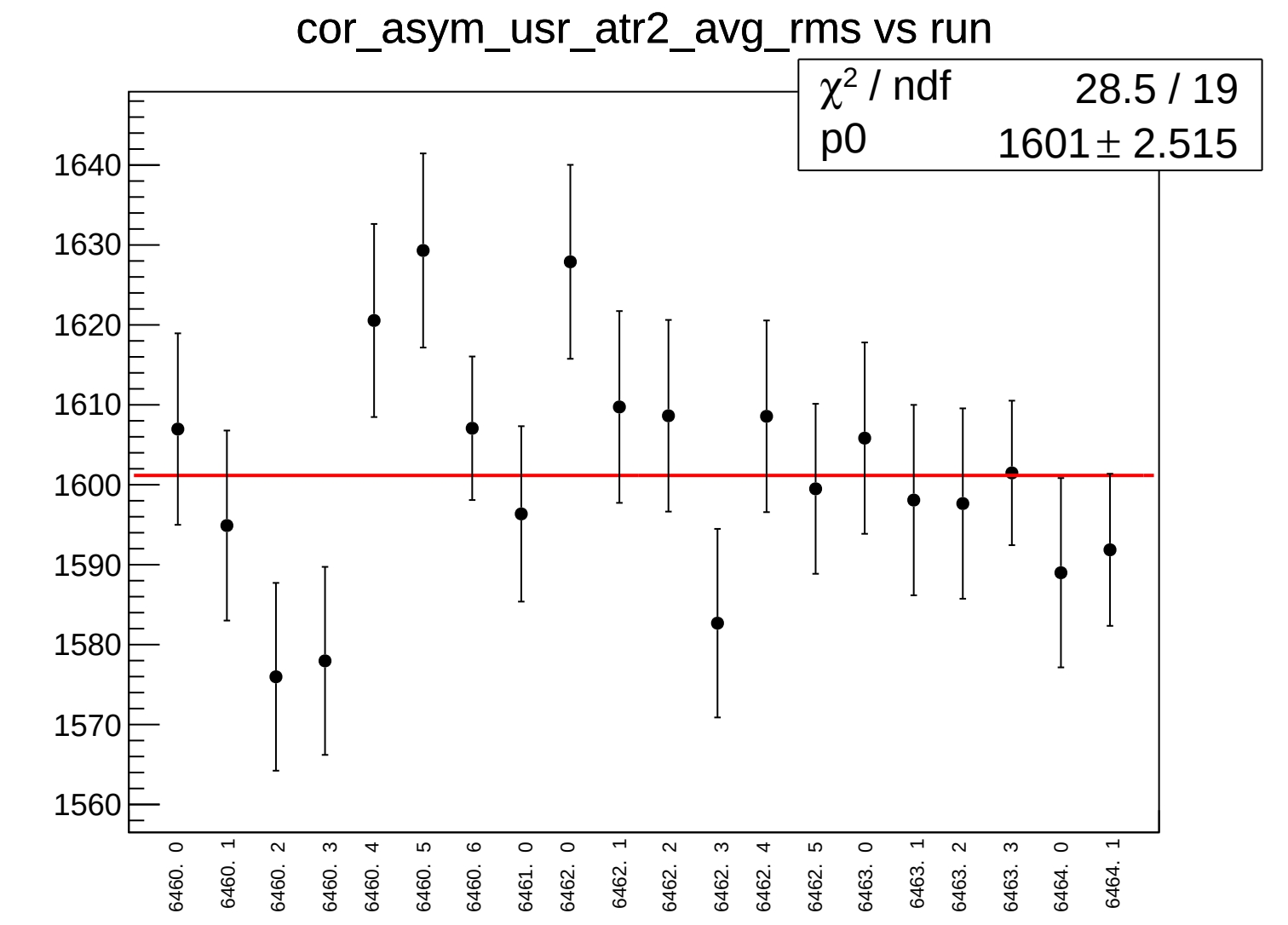

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 11.73 / 19
p0 9331± 1.017e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

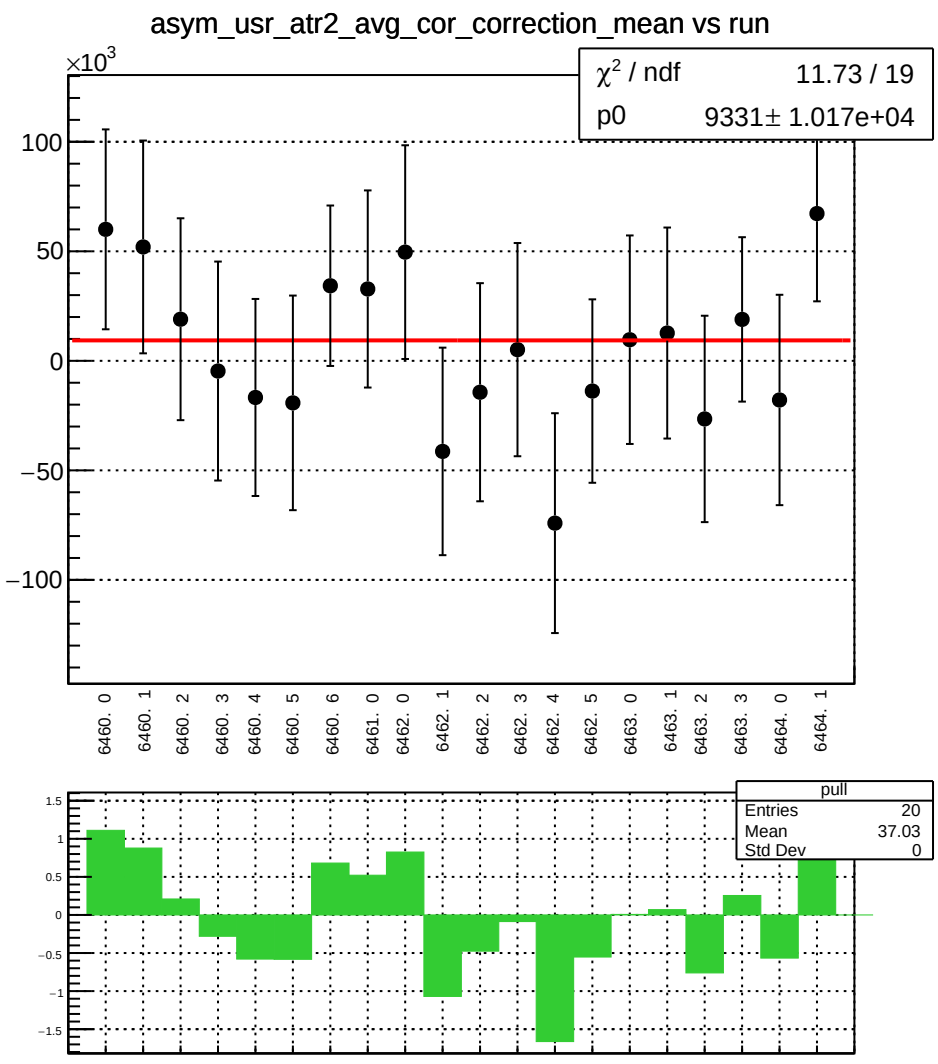

pull1D
Entries 20
Mean −0.03057
Std Dev 0.7651
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

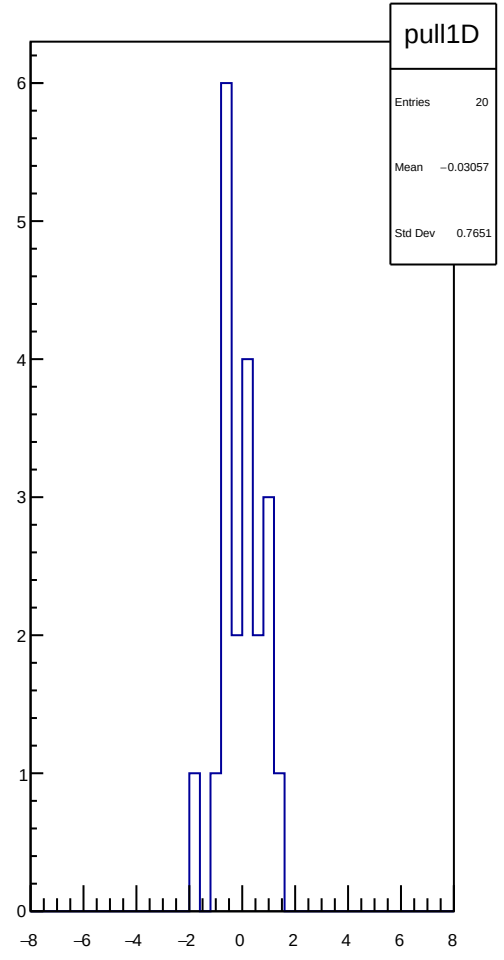

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 369.1 / 19
p0 4574 ± 7.189
4800
4700
4600
4500
4400
4300
4200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

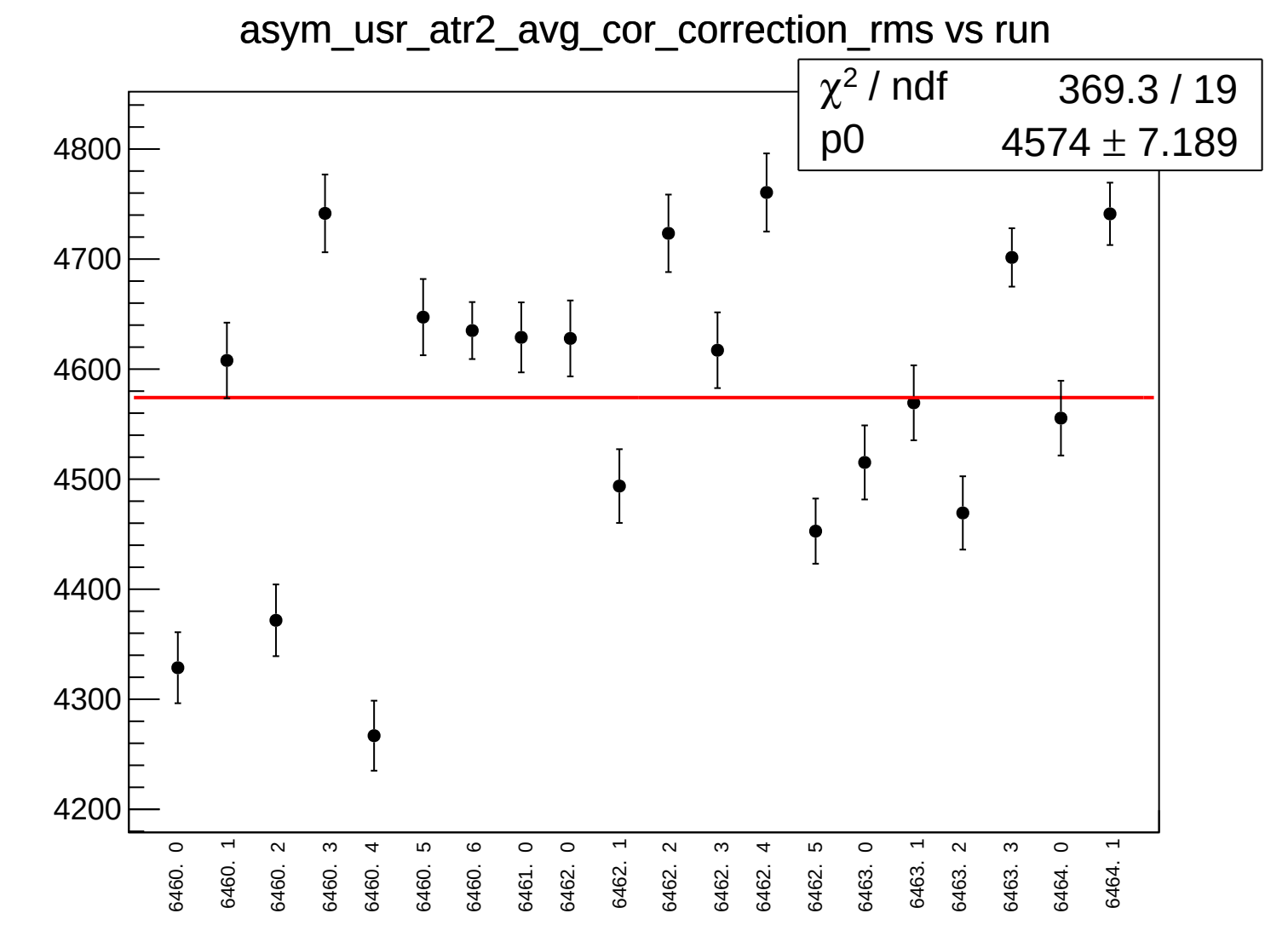

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 16.65 / 19
p0 3643 ± 3557
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −41.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

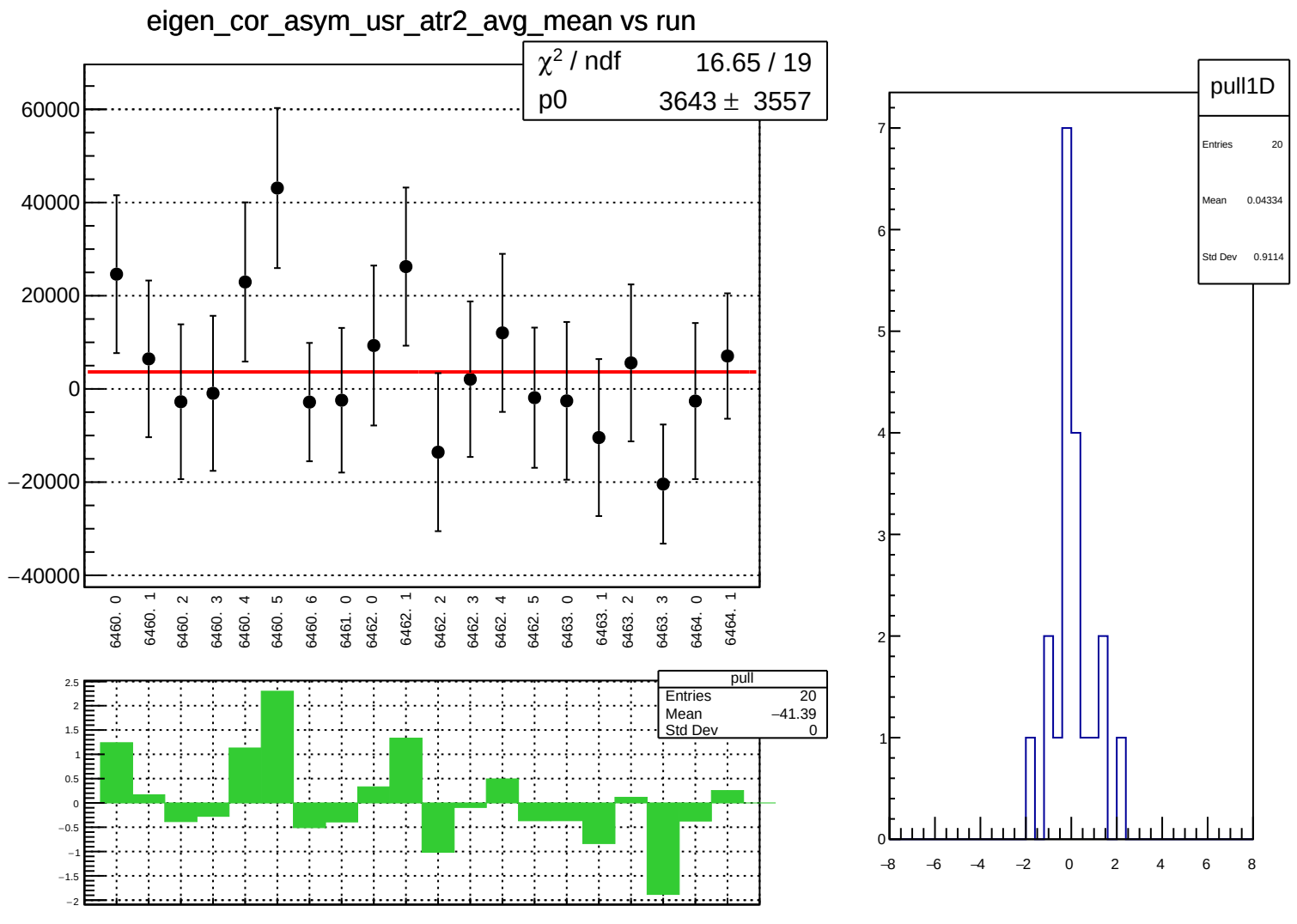

pull1D
Entries 20
Mean 0.04334
Std Dev 0.9114
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

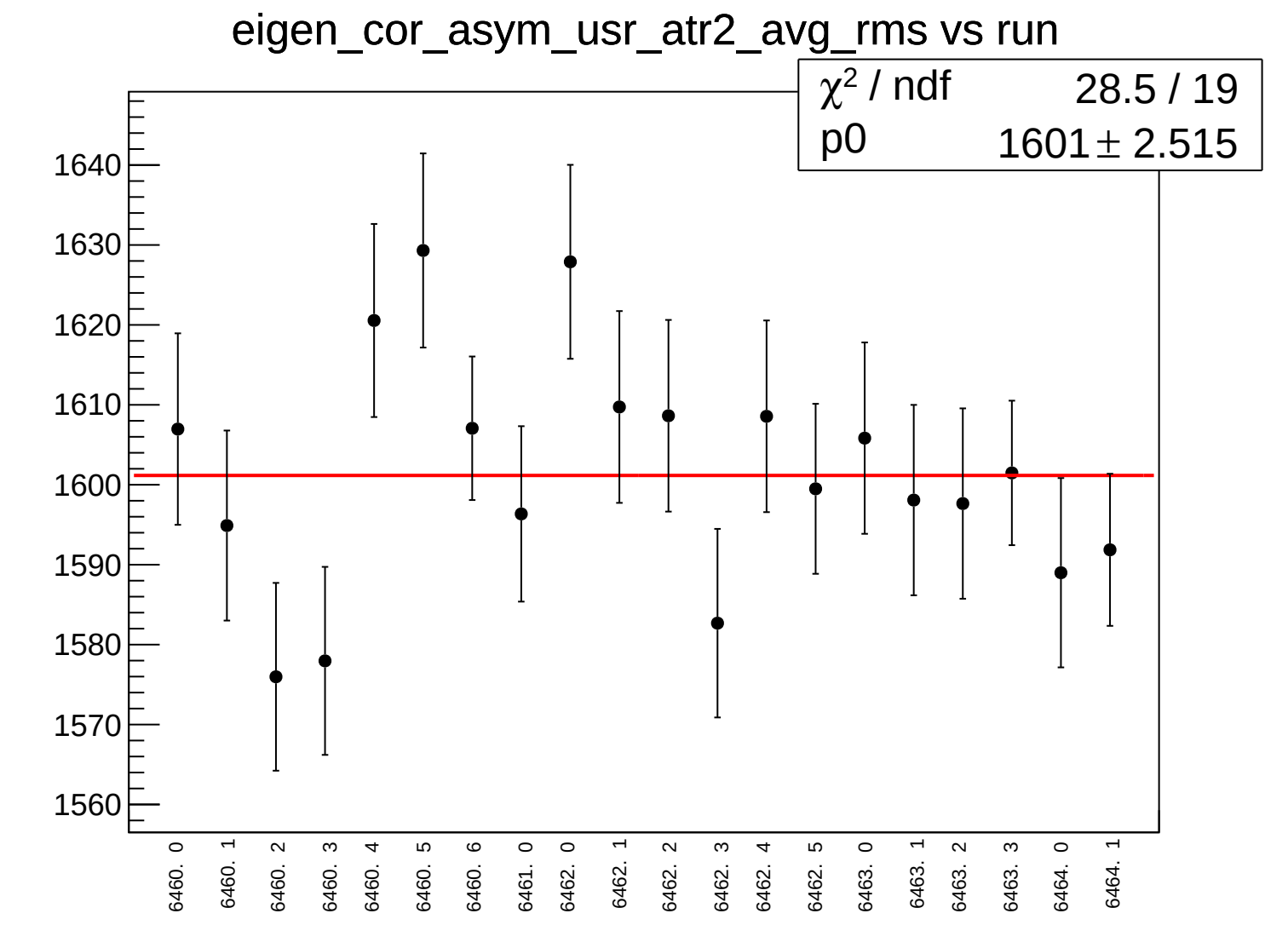

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 28.5 / 19
p0 1601 ± 2.515
1640
1630
1620
1610
1600
1590
1580
1570
1560
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

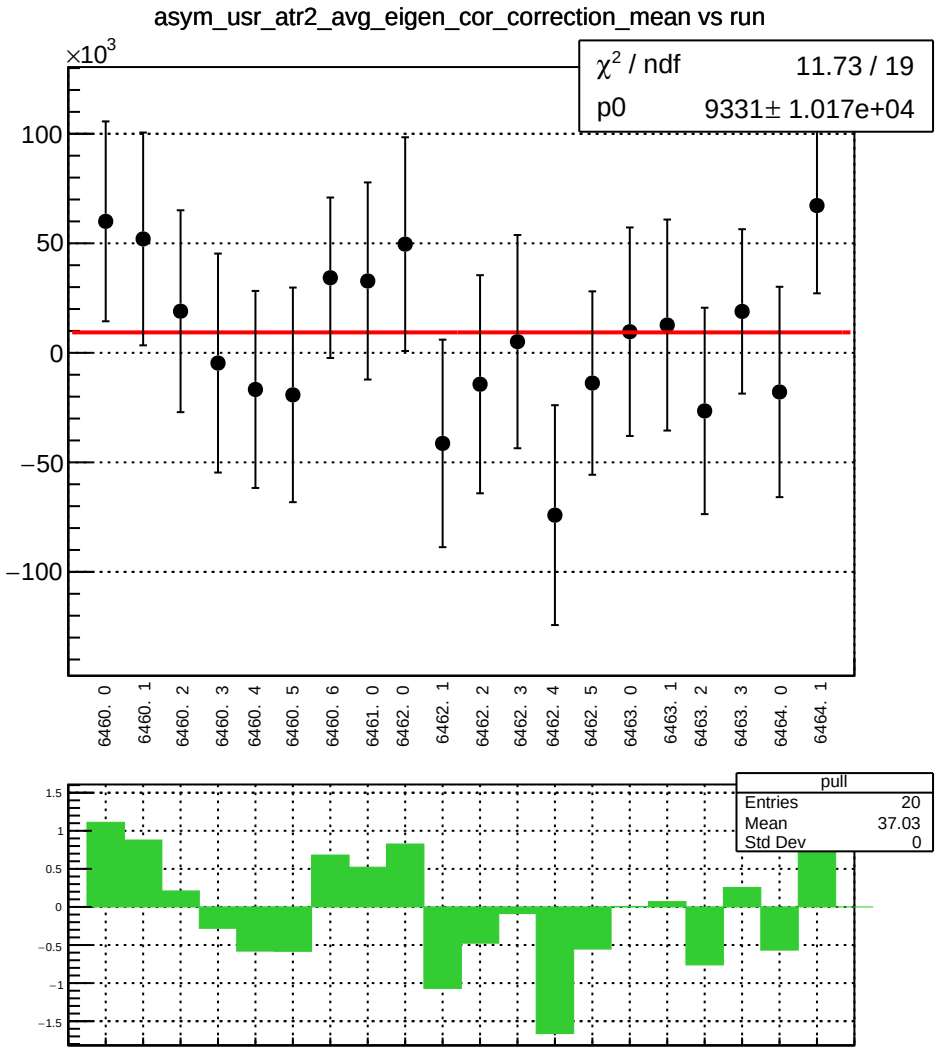

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 11.73 / 19
p0 9331± 1.017e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

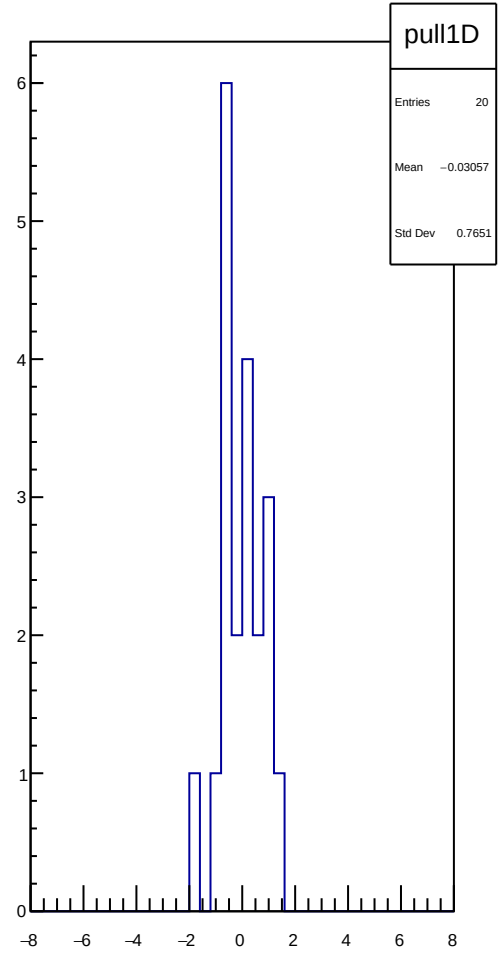

pull1D
Entries 20
Mean −0.03057
Std Dev 0.7651
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

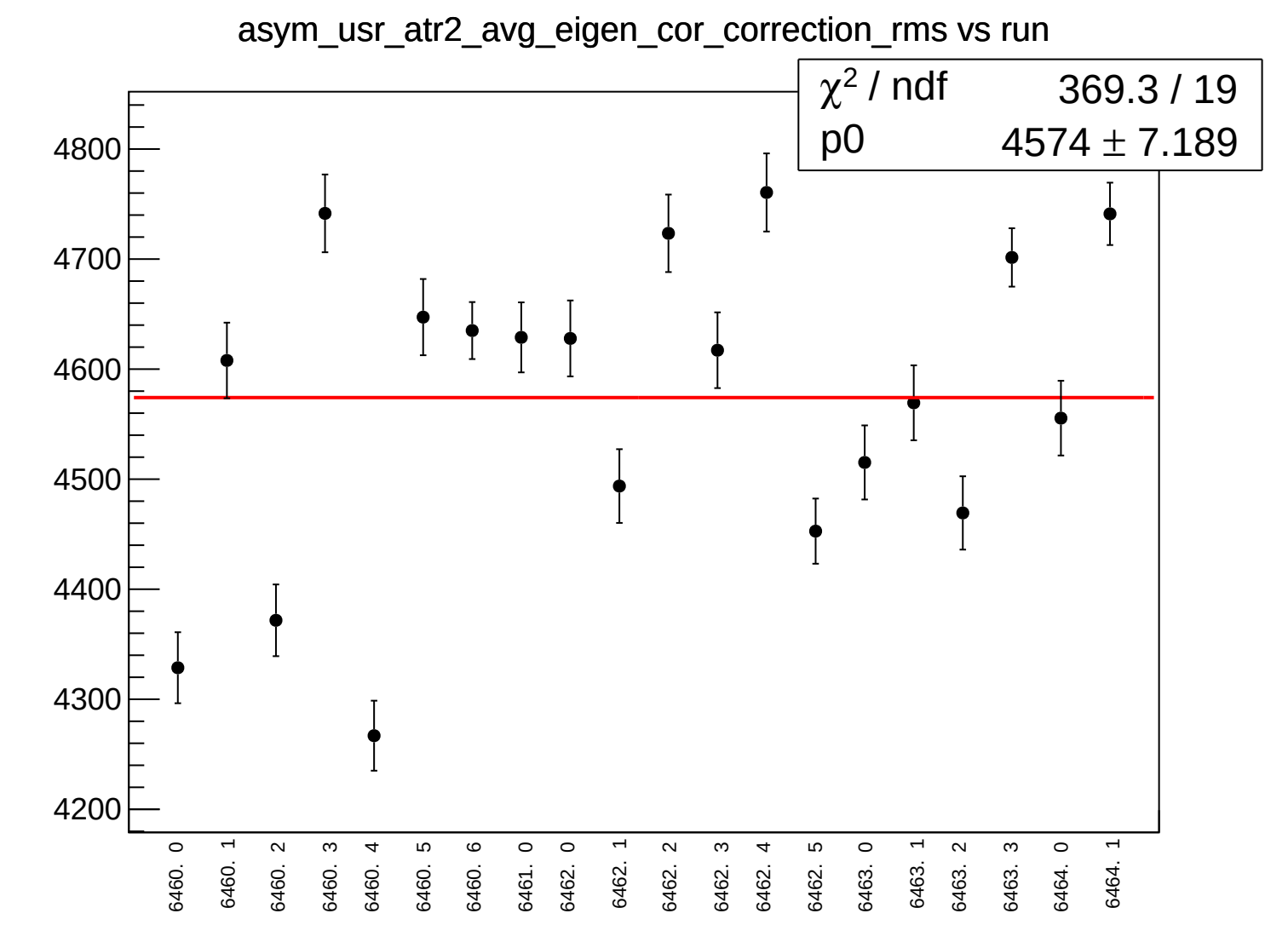

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 369.3 / 19
p0 4574 ± 7.189
4800
4700
4600
4500
4400
4300
4200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

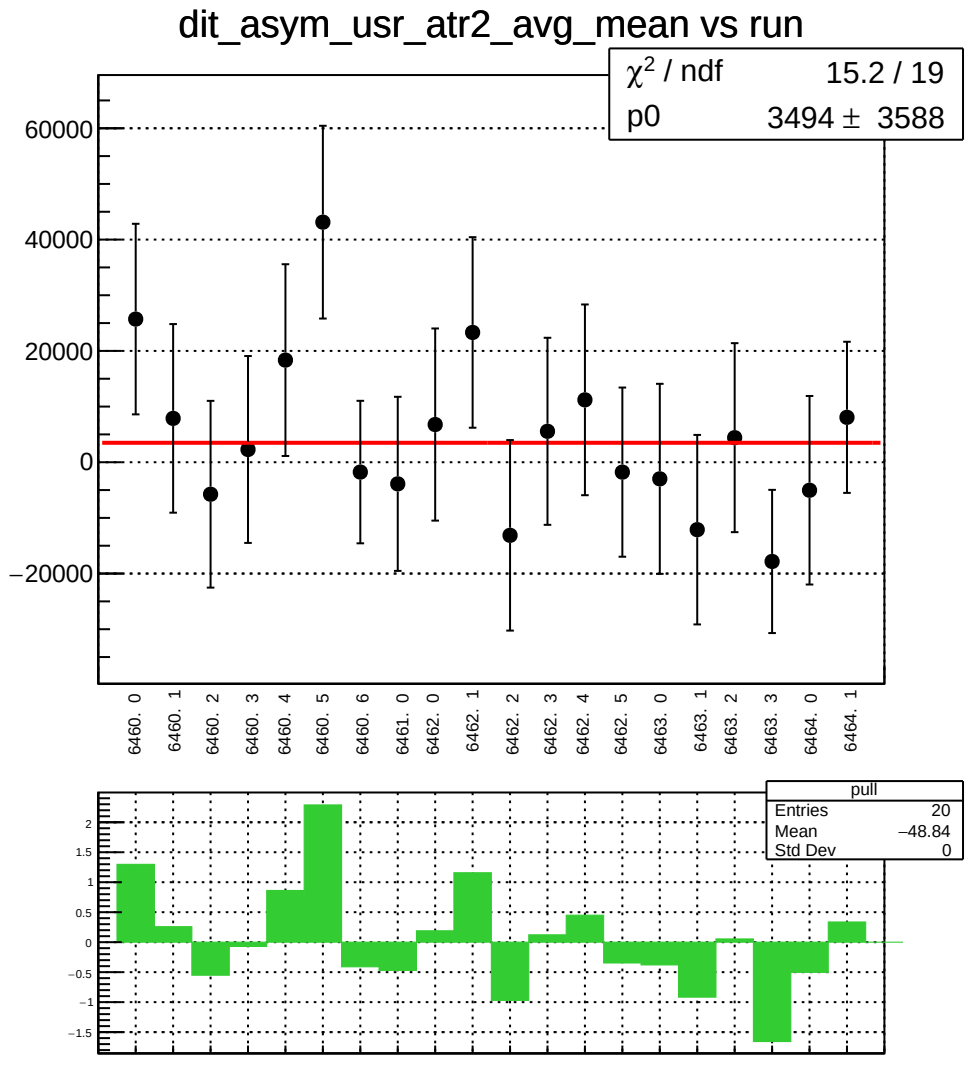

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 16.65 / 19
p0 3643 ± 3557
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −41.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.04334
Std Dev 0.9114
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

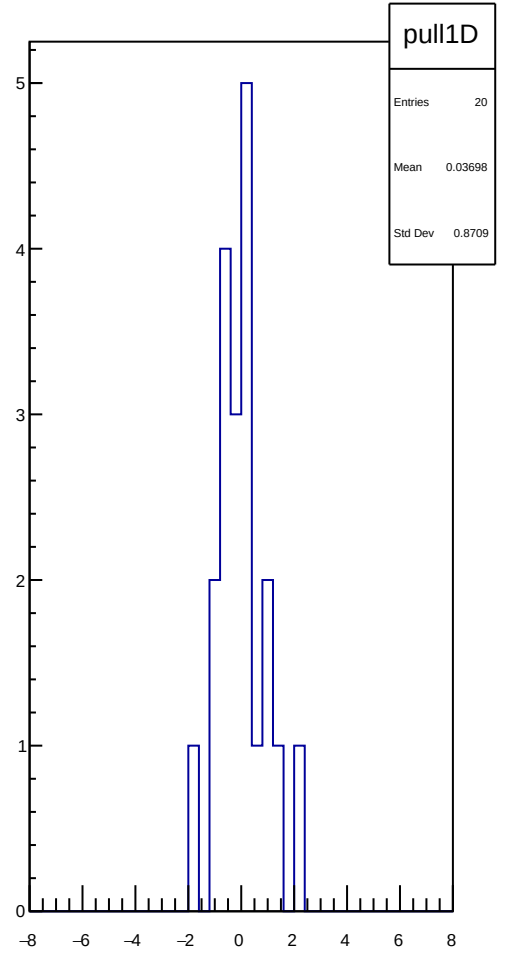

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 28.5 / 19
p0 1601 ± 2.515
1640
1630
1620
1610
1600
1590
1580
1570
1560
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

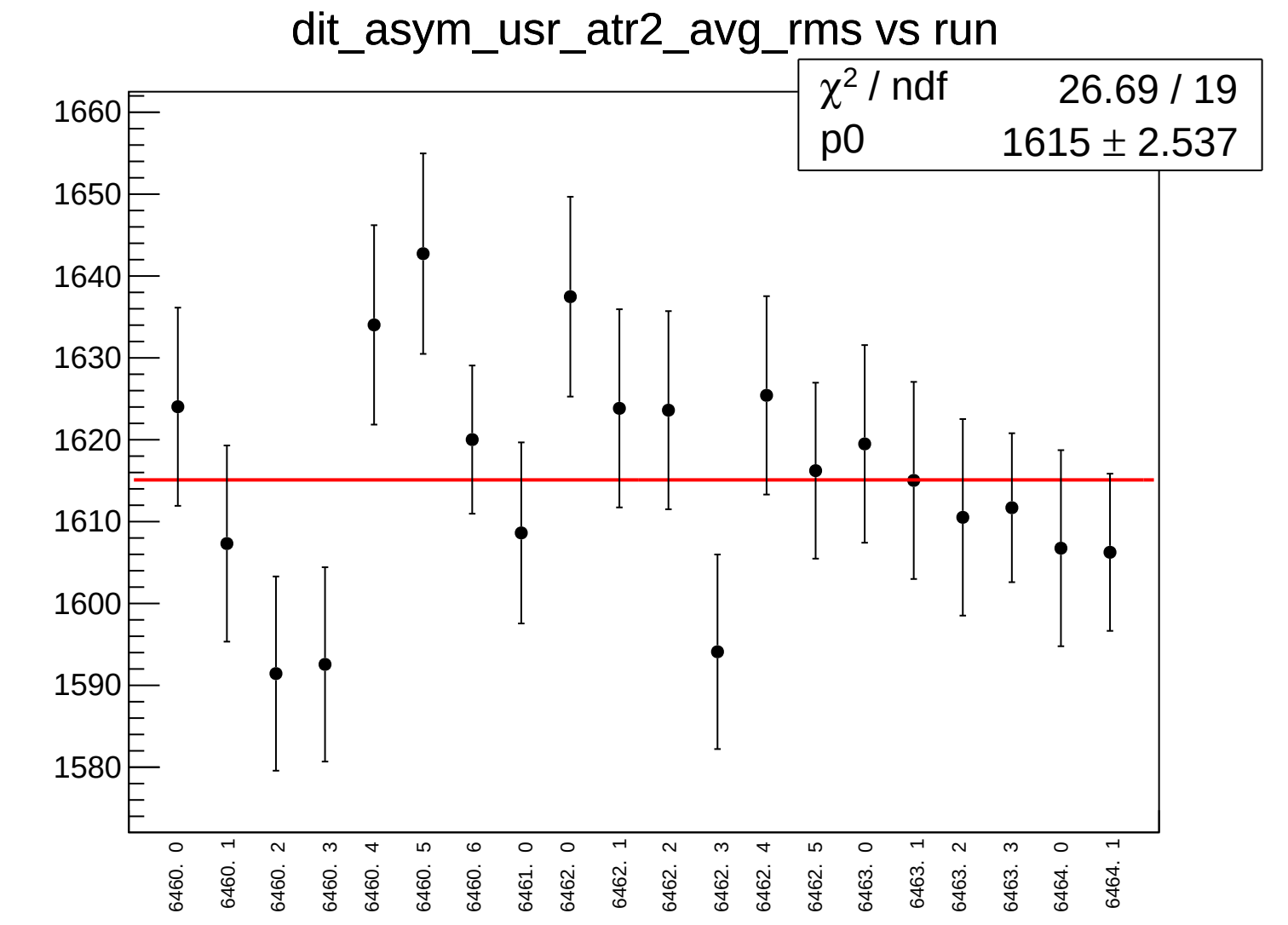

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 11.73 / 19
p0 9331± 1.017e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

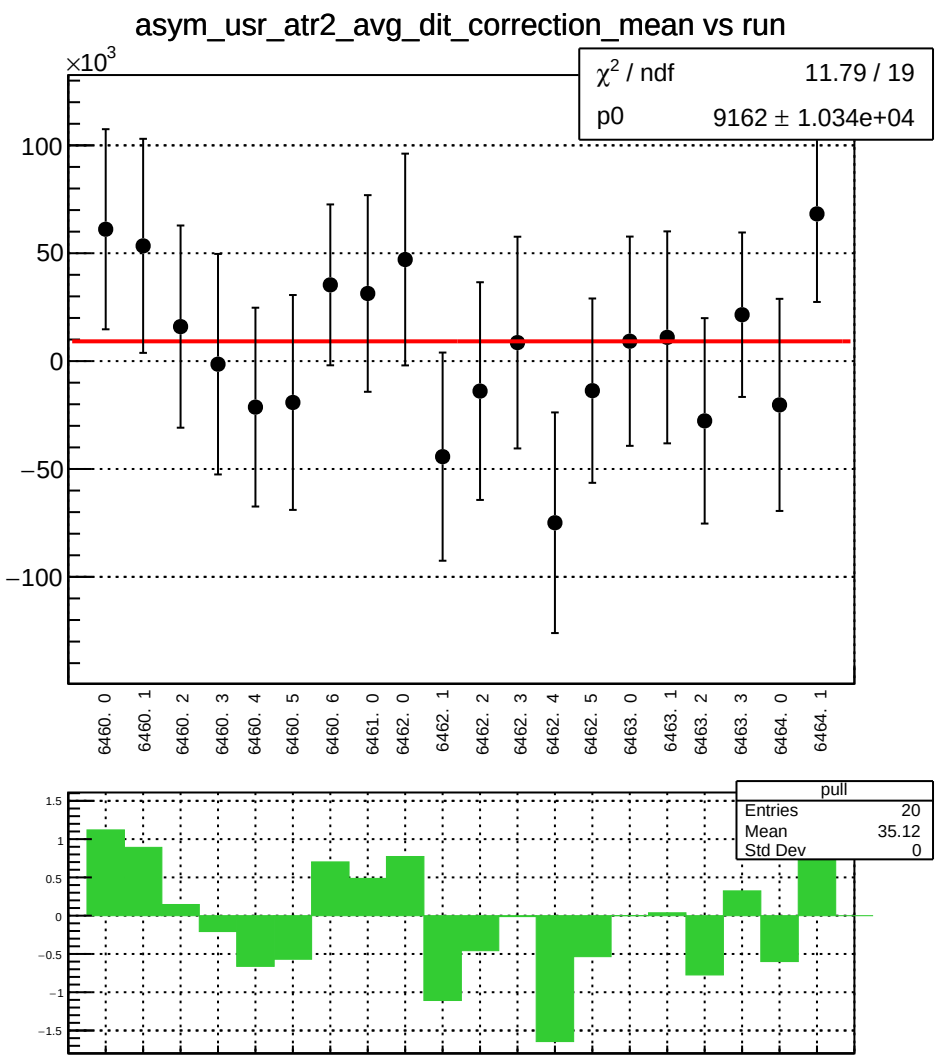

pull1D
Entries 20
Mean −0.03057
Std Dev 0.7651
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

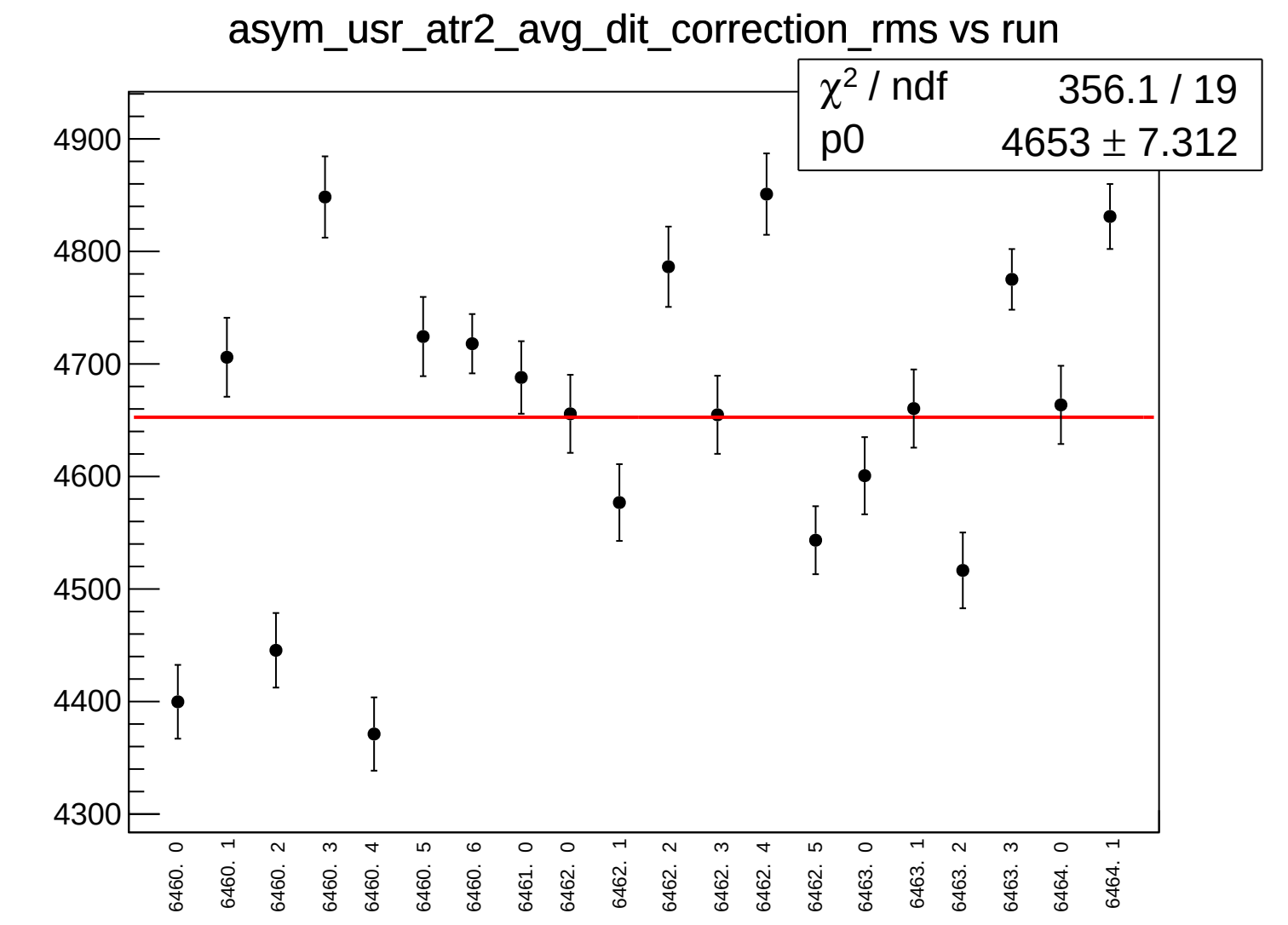

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 369.3 / 19
p0 4574 ± 7.189
4800
4700
4600
4500
4400
4300
4200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

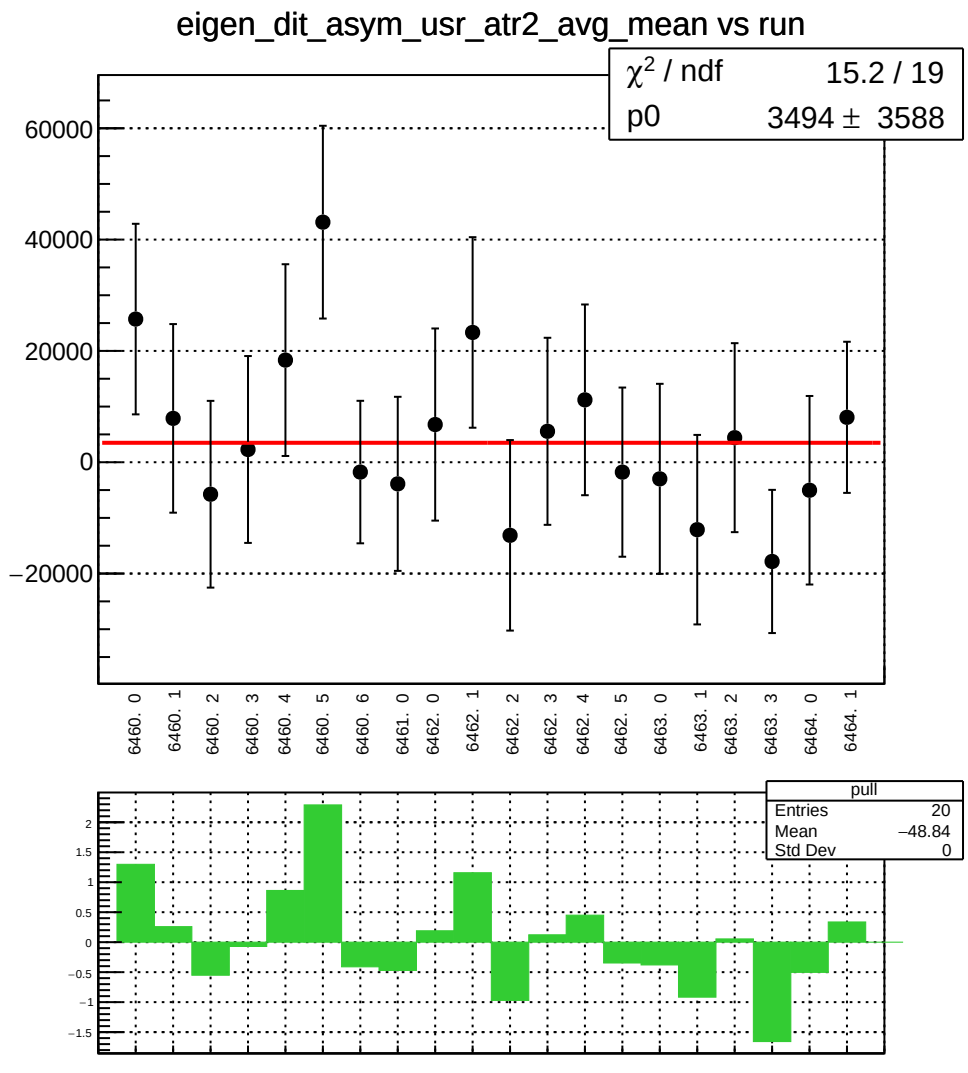

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 15.2 / 19
p0 3494 ± 3588
60000
40000
20000
0
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −48.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

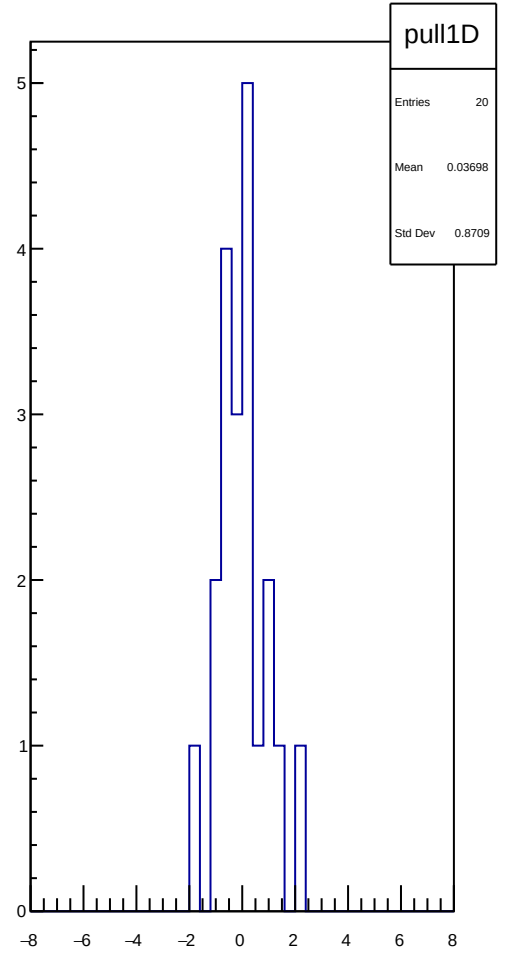

pull1D
Entries 20
Mean 0.03698
Std Dev 0.8709
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

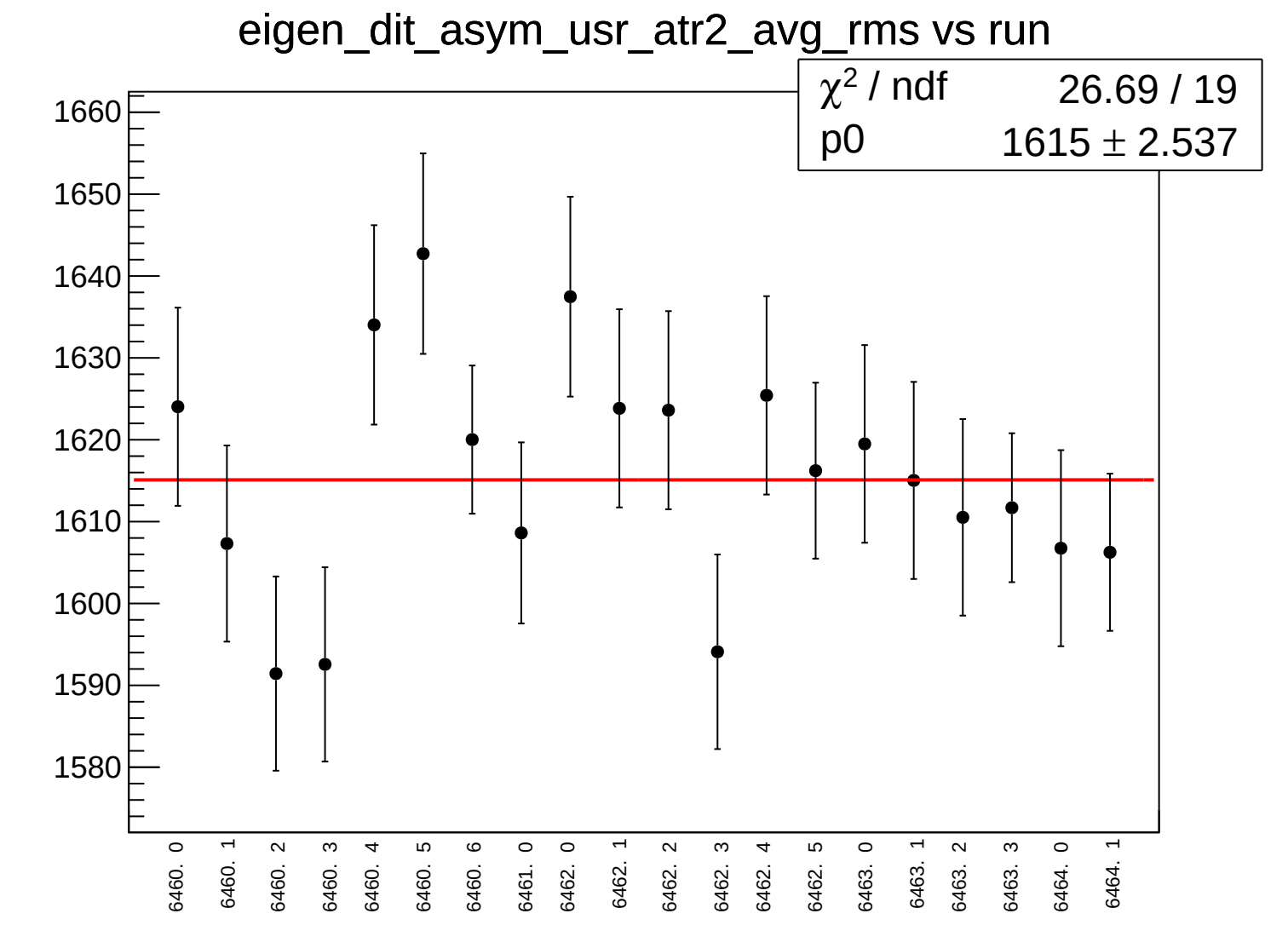

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 26.69 / 19
p0 1615 ± 2.537
1660
1650
1640
1630
1620
1610
1600
1590
1580
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

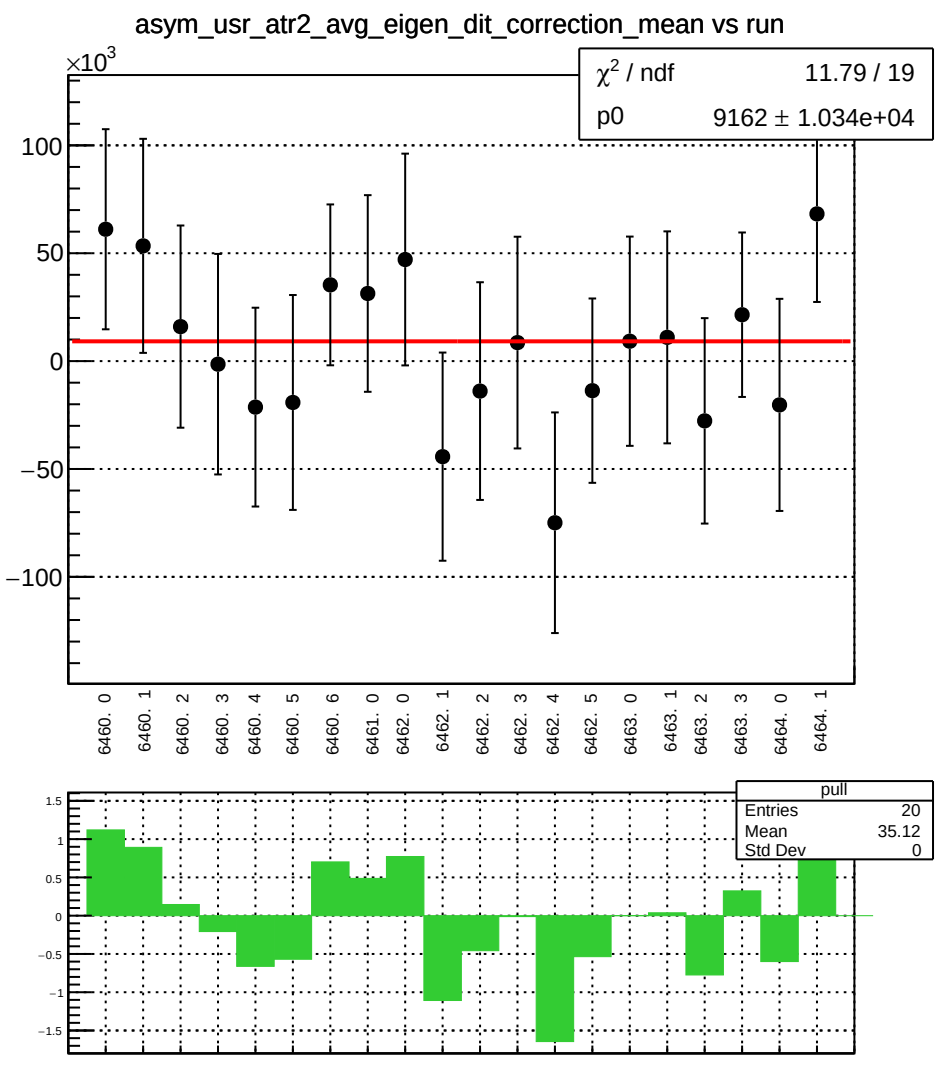

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 11.79 / 19
p0 9162 ± 1.034e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 35.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03189
Std Dev 0.7671
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

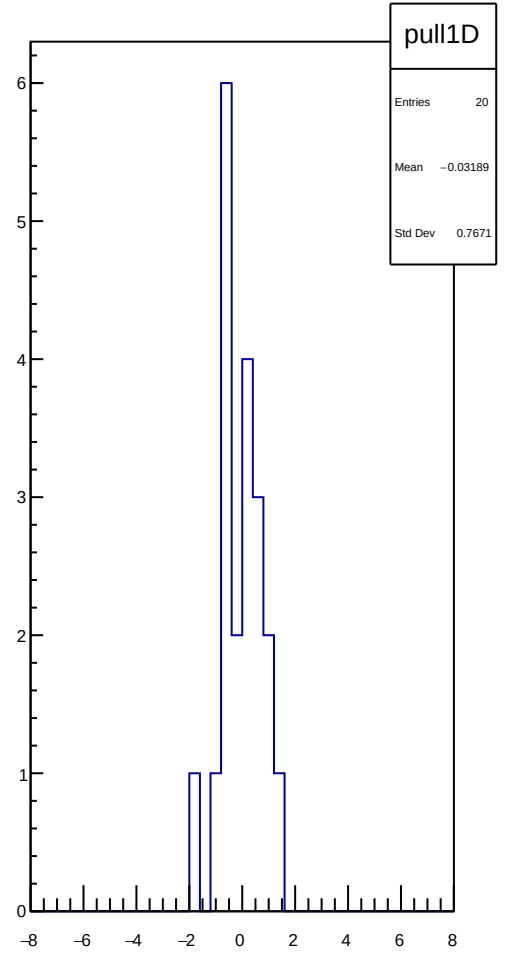

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 356.1 / 19
p0 4653 ± 7.312
4900
4800
4700
4600
4500
4400
4300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

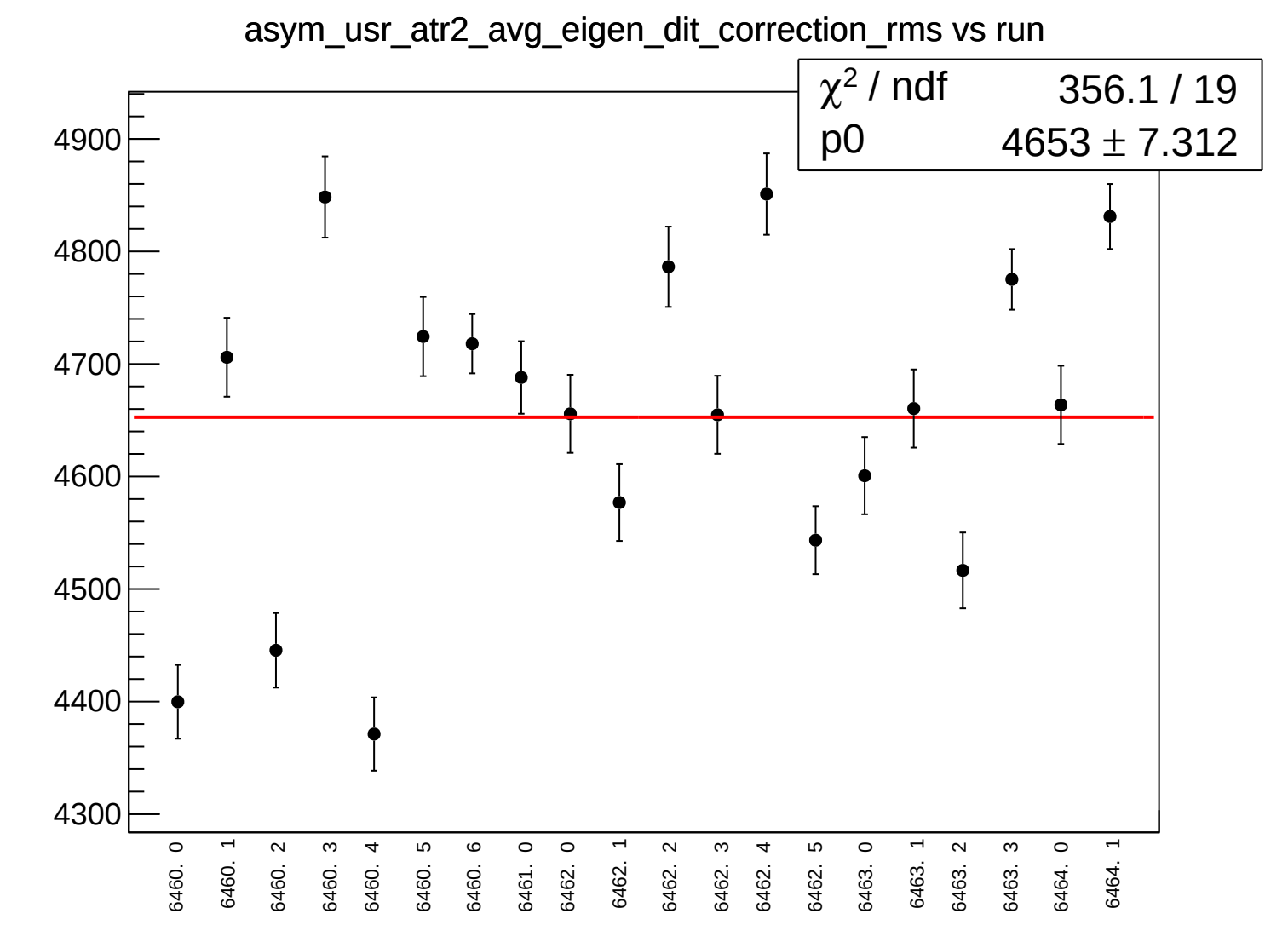

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 15.2 / 19
p0 3494 ± 3588
60000
40000
20000
0
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −48.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

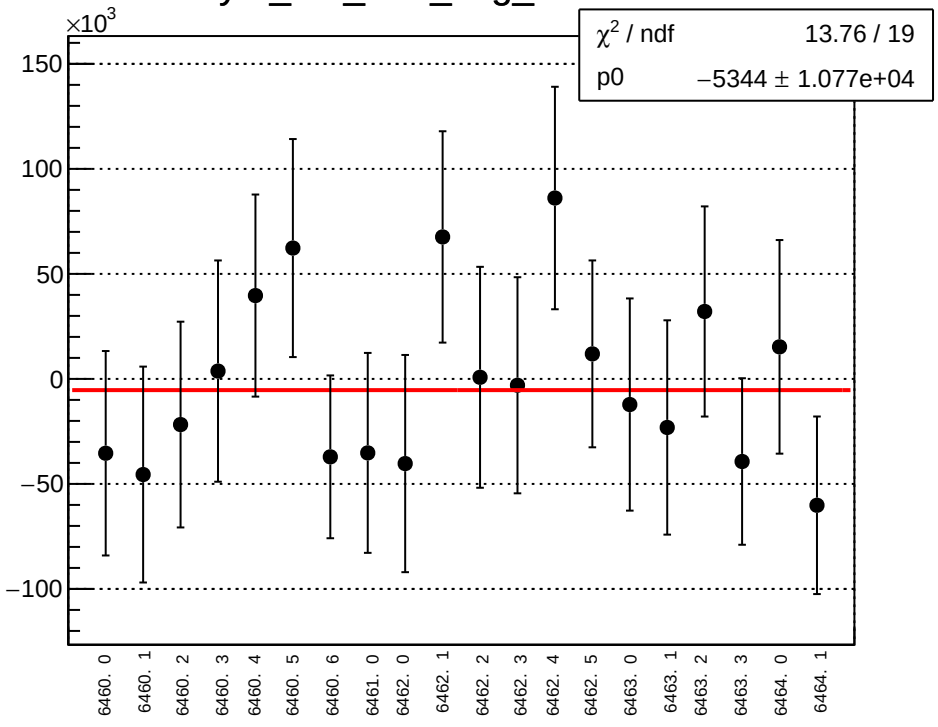

pull1D
Entries 20
Mean 0.03698
Std Dev 0.8709
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

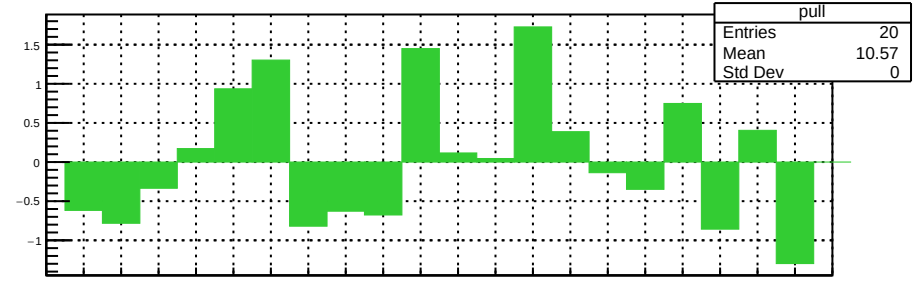

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 26.69 / 19
p0 1615 ± 2.537
1660
1650
1640
1630
1620
1610
1600
1590
1580
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

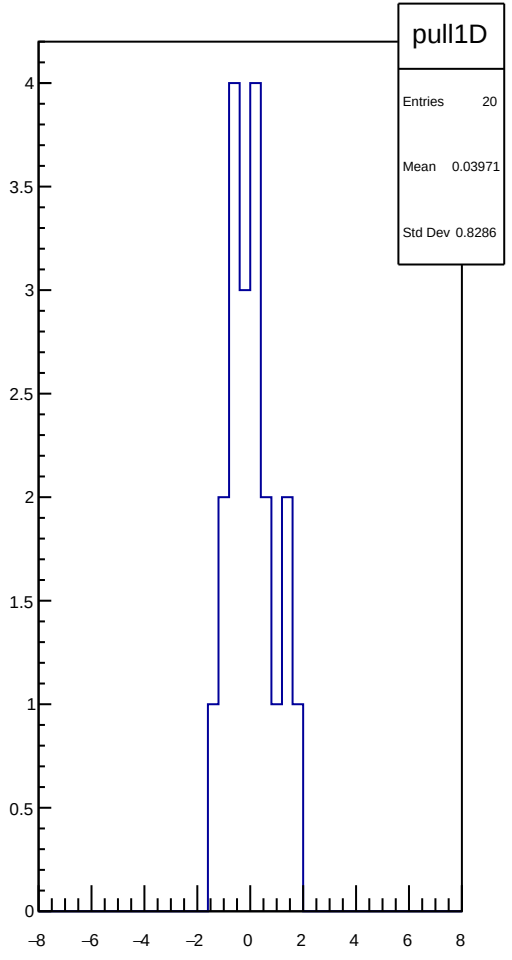

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 11.79 / 19
p0 9162 ± 1.034e+04
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 35.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

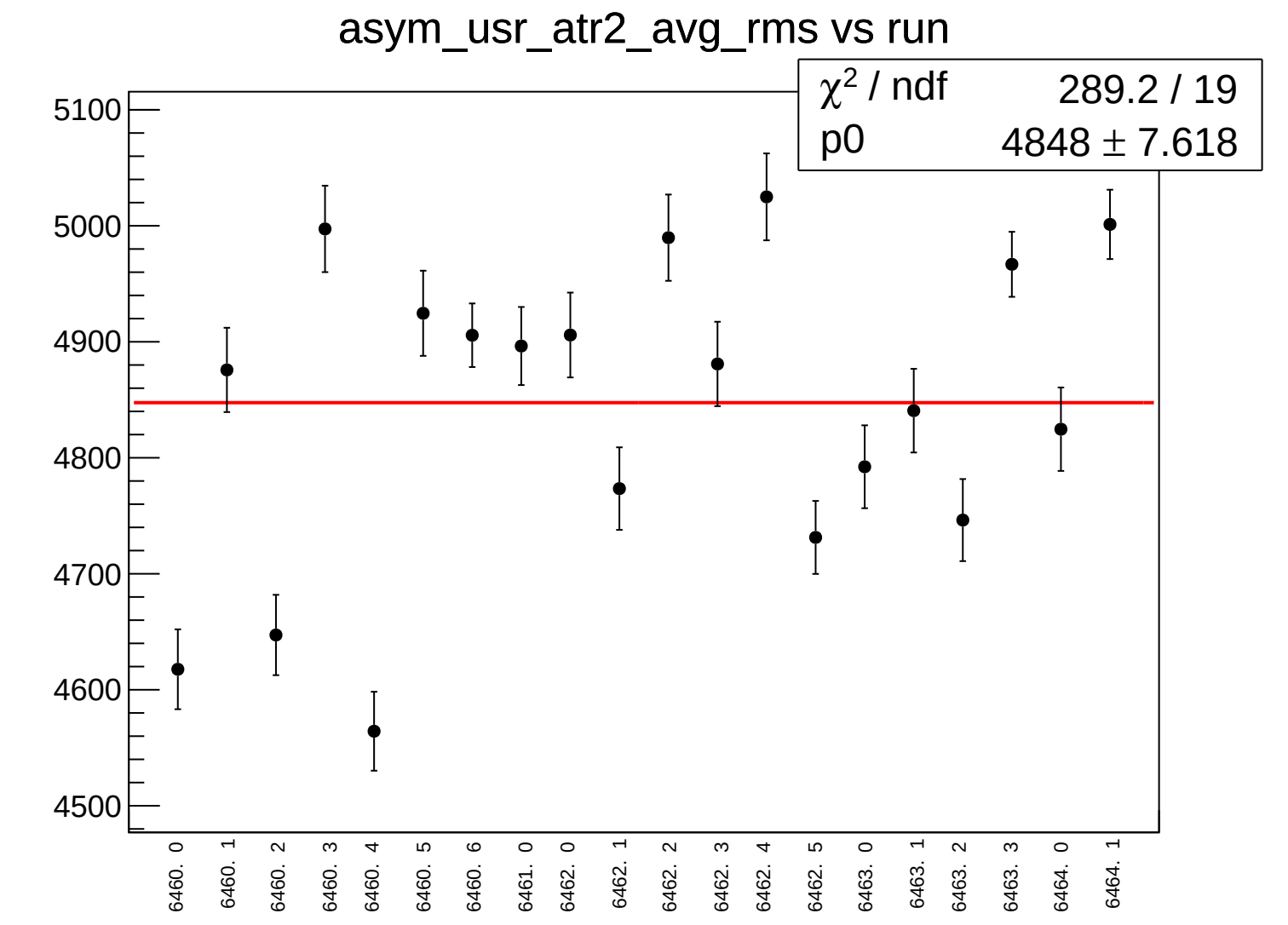

pull1D
Entries 20
Mean −0.03189
Std Dev 0.7671
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

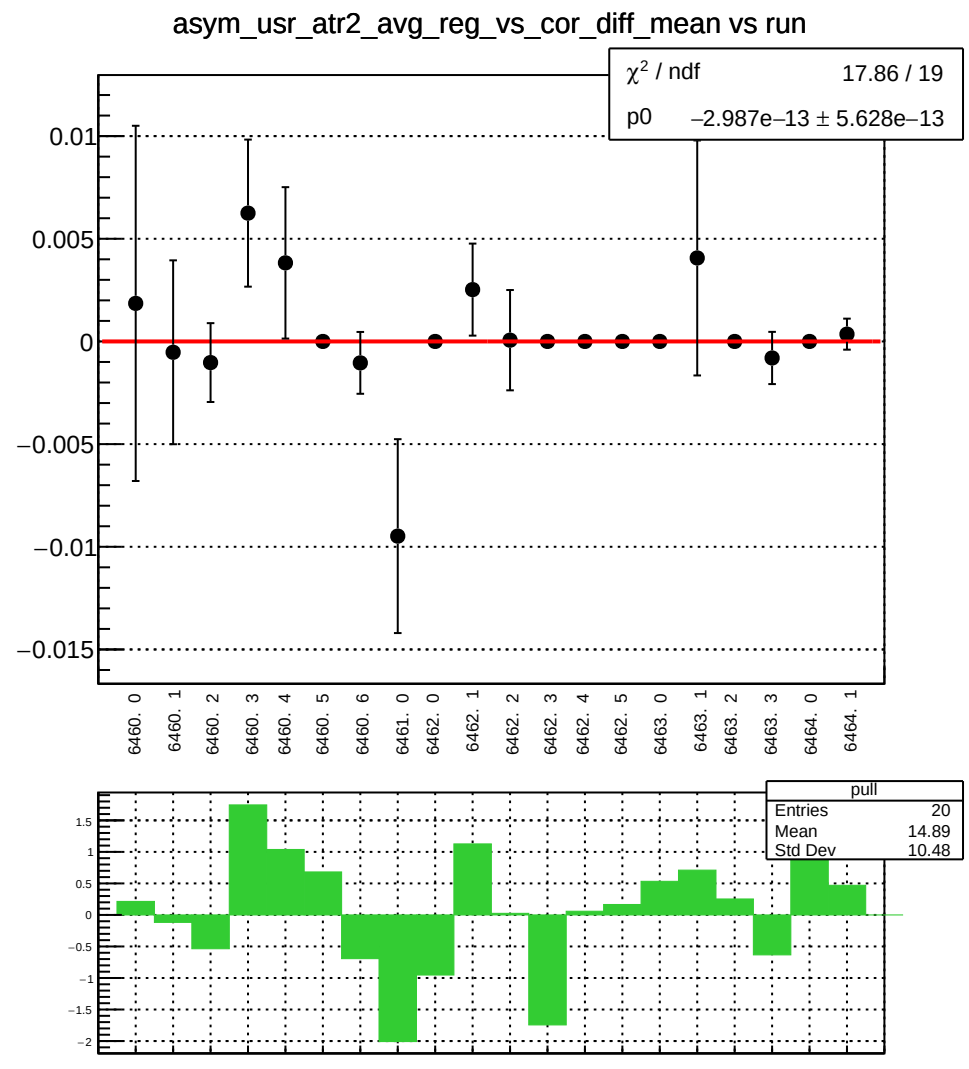

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 356.1 / 19
p0 4653 ± 7.312
4900
4800
4700
4600
4500
4400
4300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

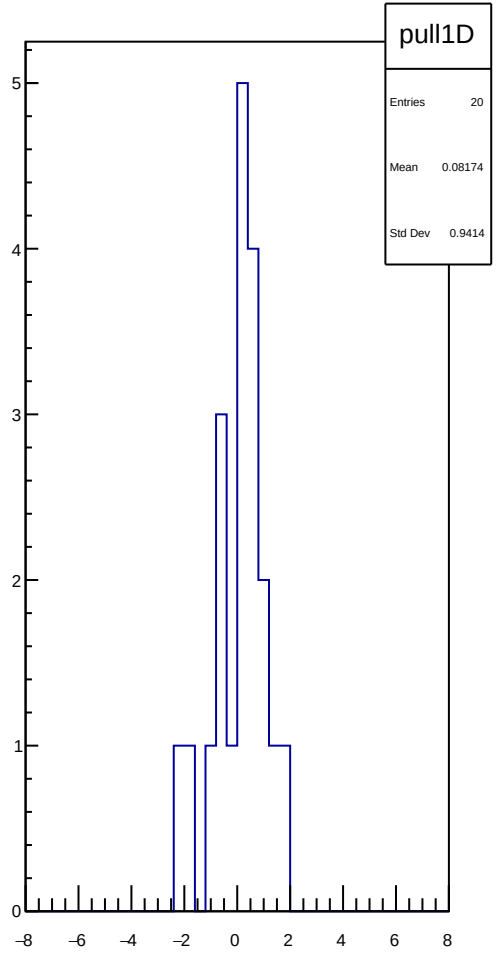

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 13.76 / 19
p0 −5344 ± 1.077e+04
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

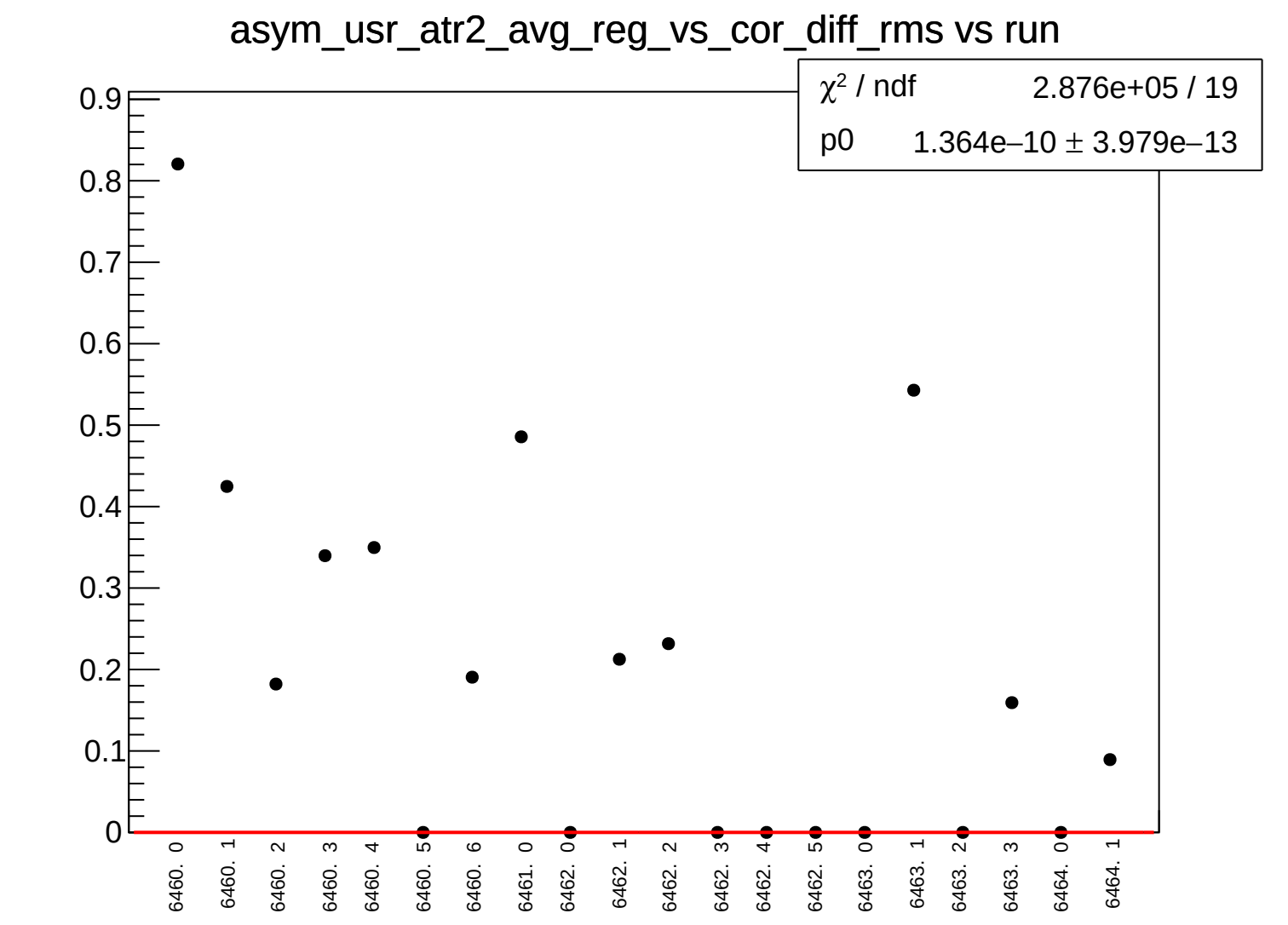

pull
Entries 20
Mean 10.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1

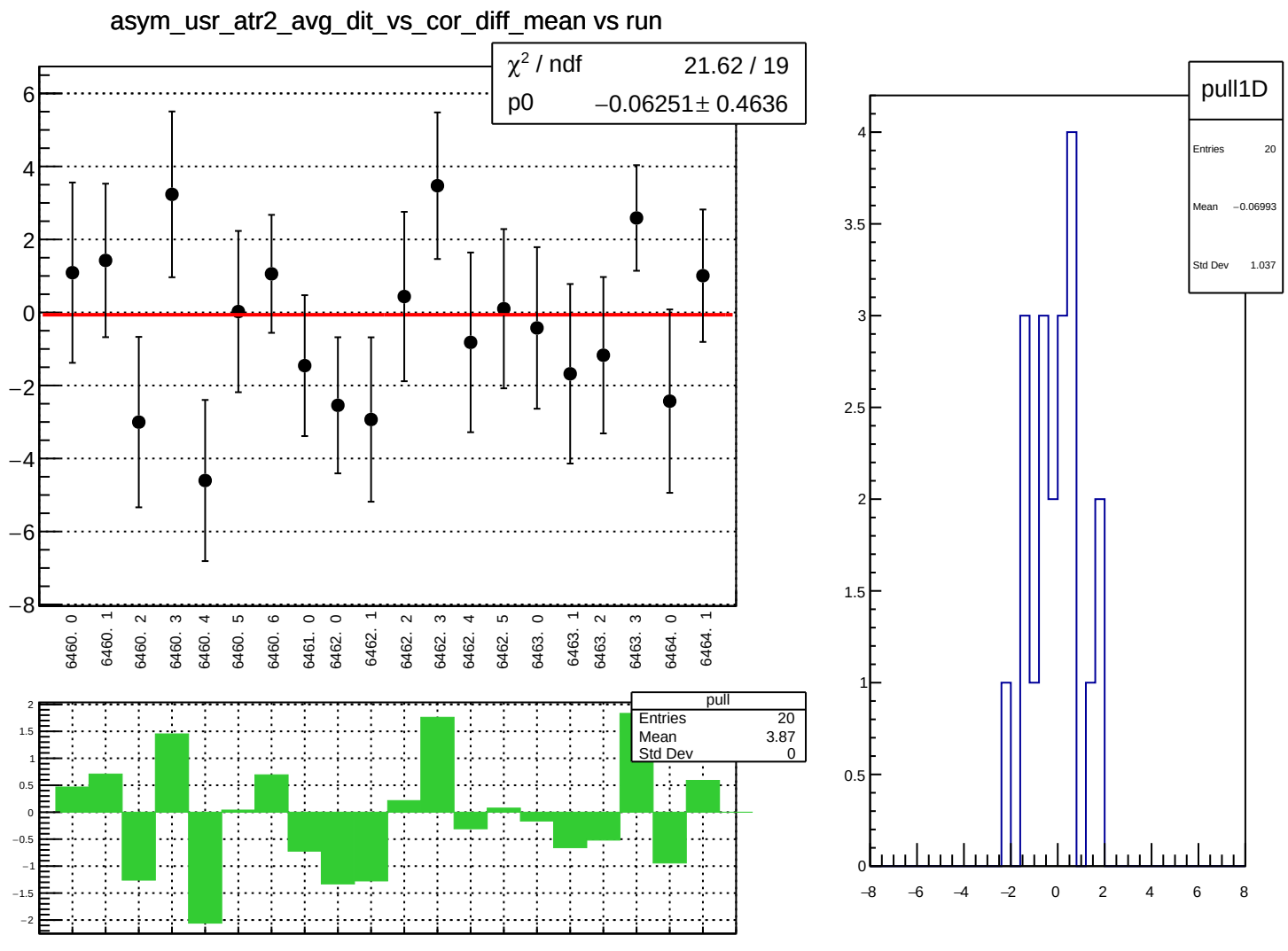

pull1D
Entries 20
Mean 0.03971
Std Dev 0.8286
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

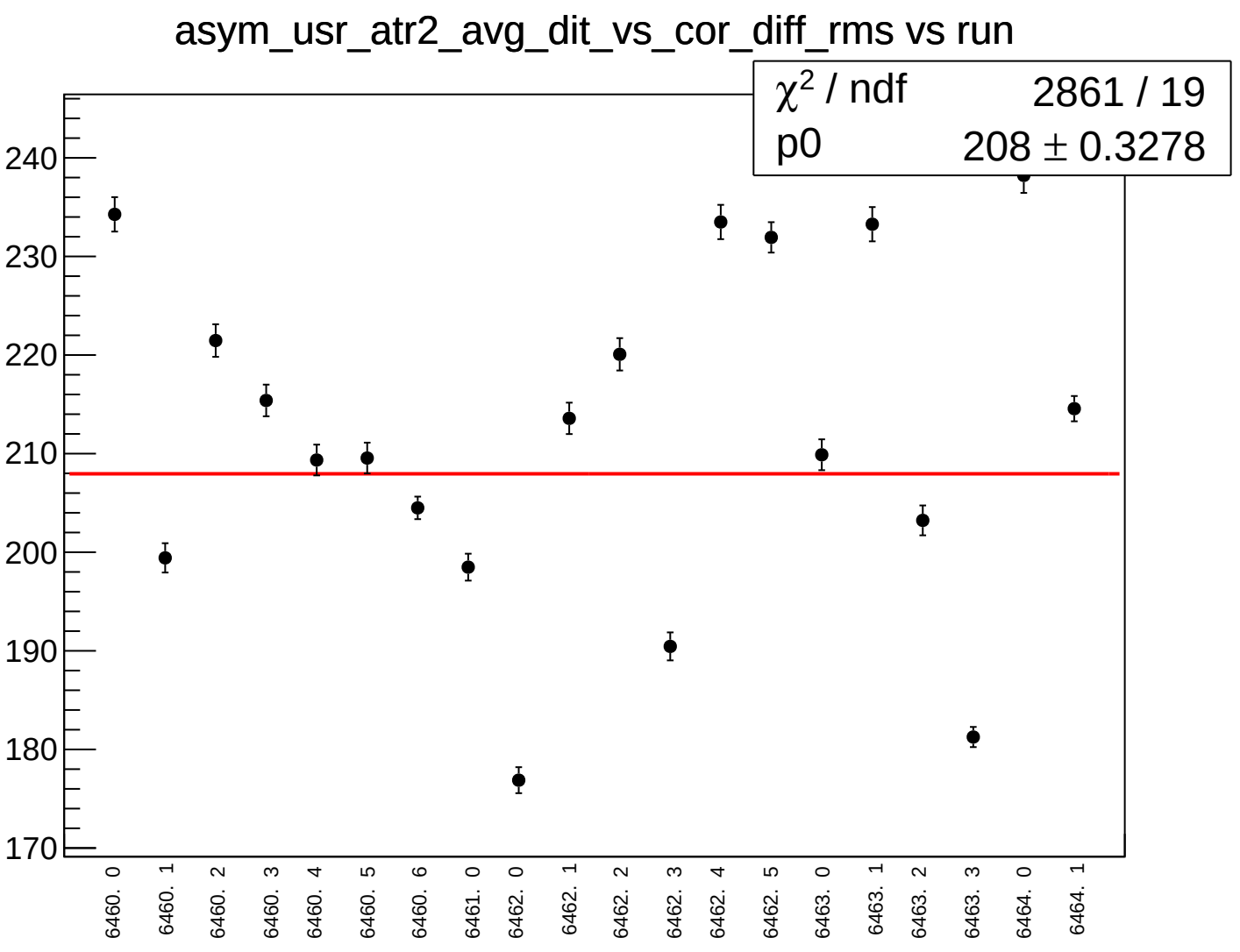

asym_usr_atr2_avg_rms vs run
χ² / ndf 289.2 / 19
p0 4848 ± 7.618
5100
5000
4900
4800
4700
4600
4500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

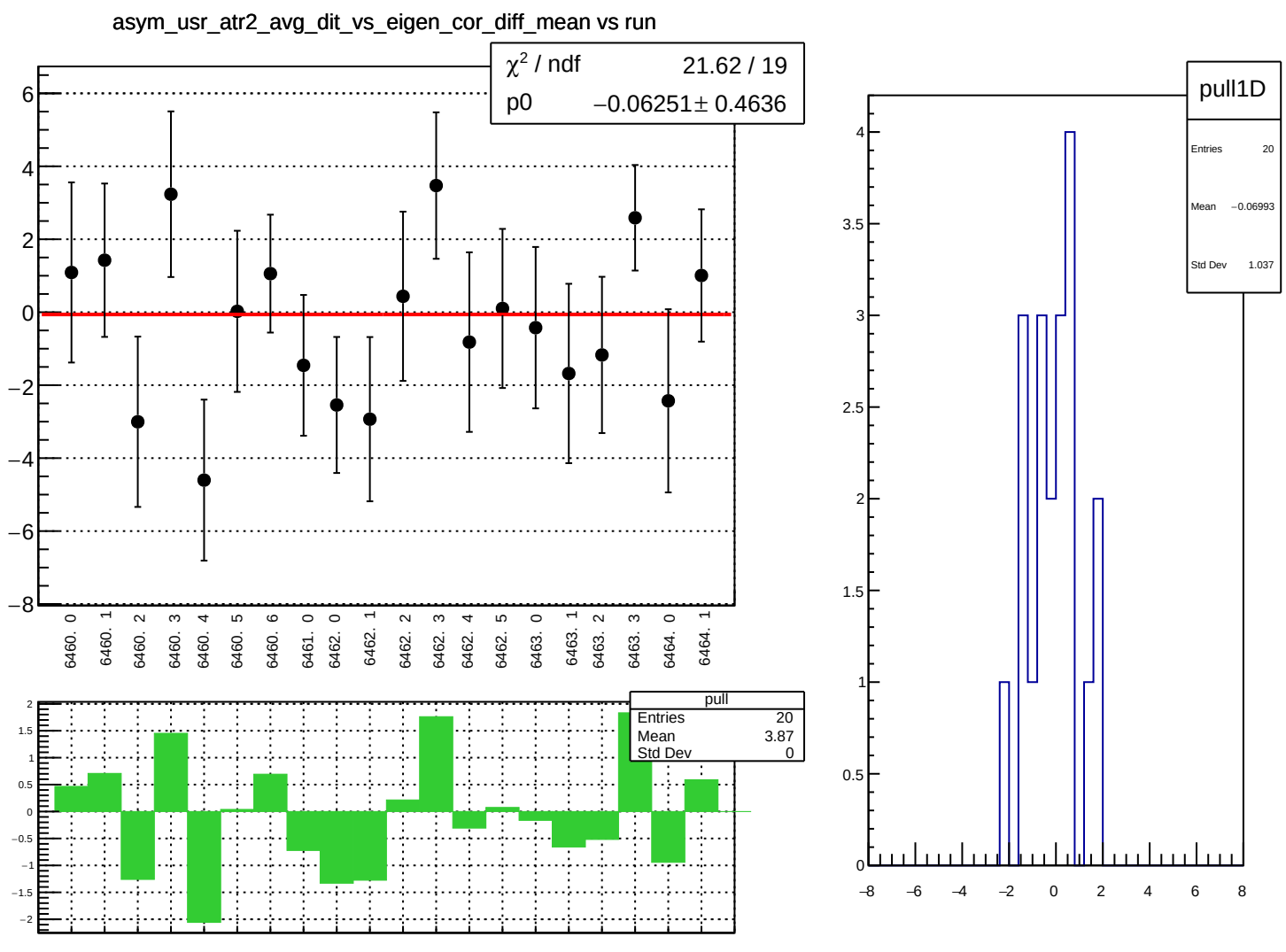

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 17.86 / 19
p0 −2.987e−13 ± 5.628e−13
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 14.89
Std Dev 10.48
1.5
1
0.5
0
−0.5
−1
−1.5
−2

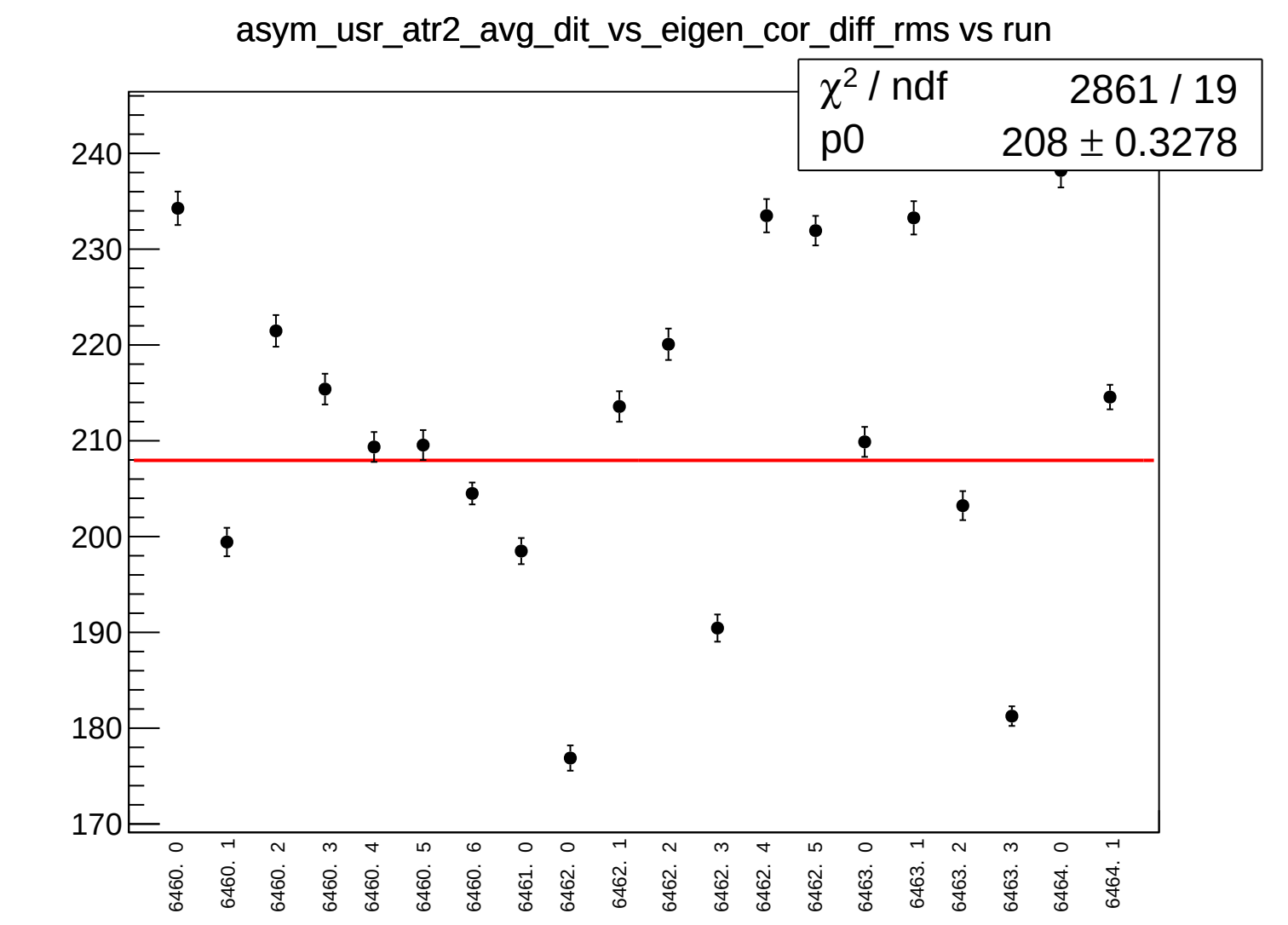

pull1D
Entries 20
Mean 0.08174
Std Dev 0.9414
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

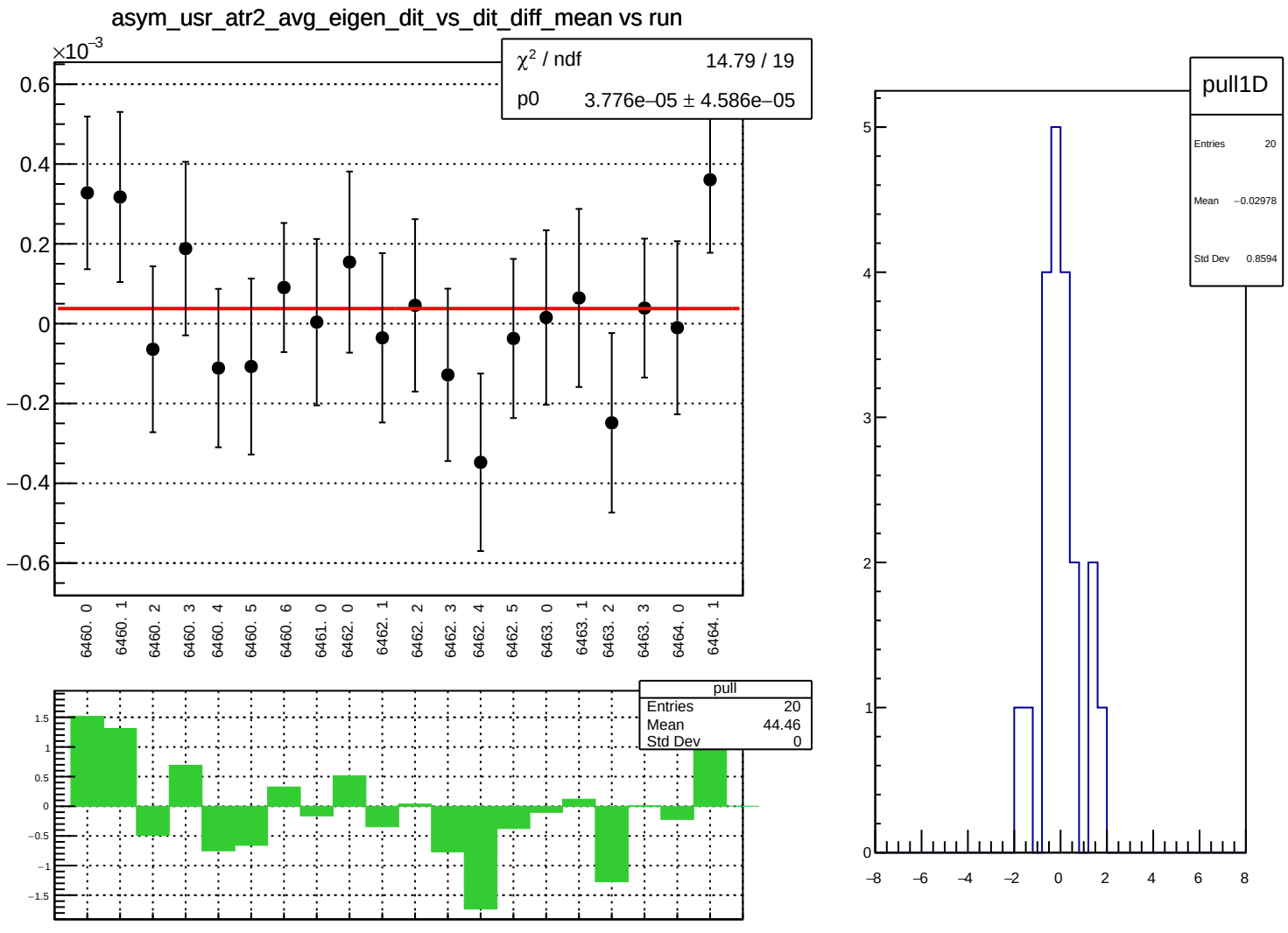

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.876e+05 / 19
p0 1.364e−10 ± 3.979e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

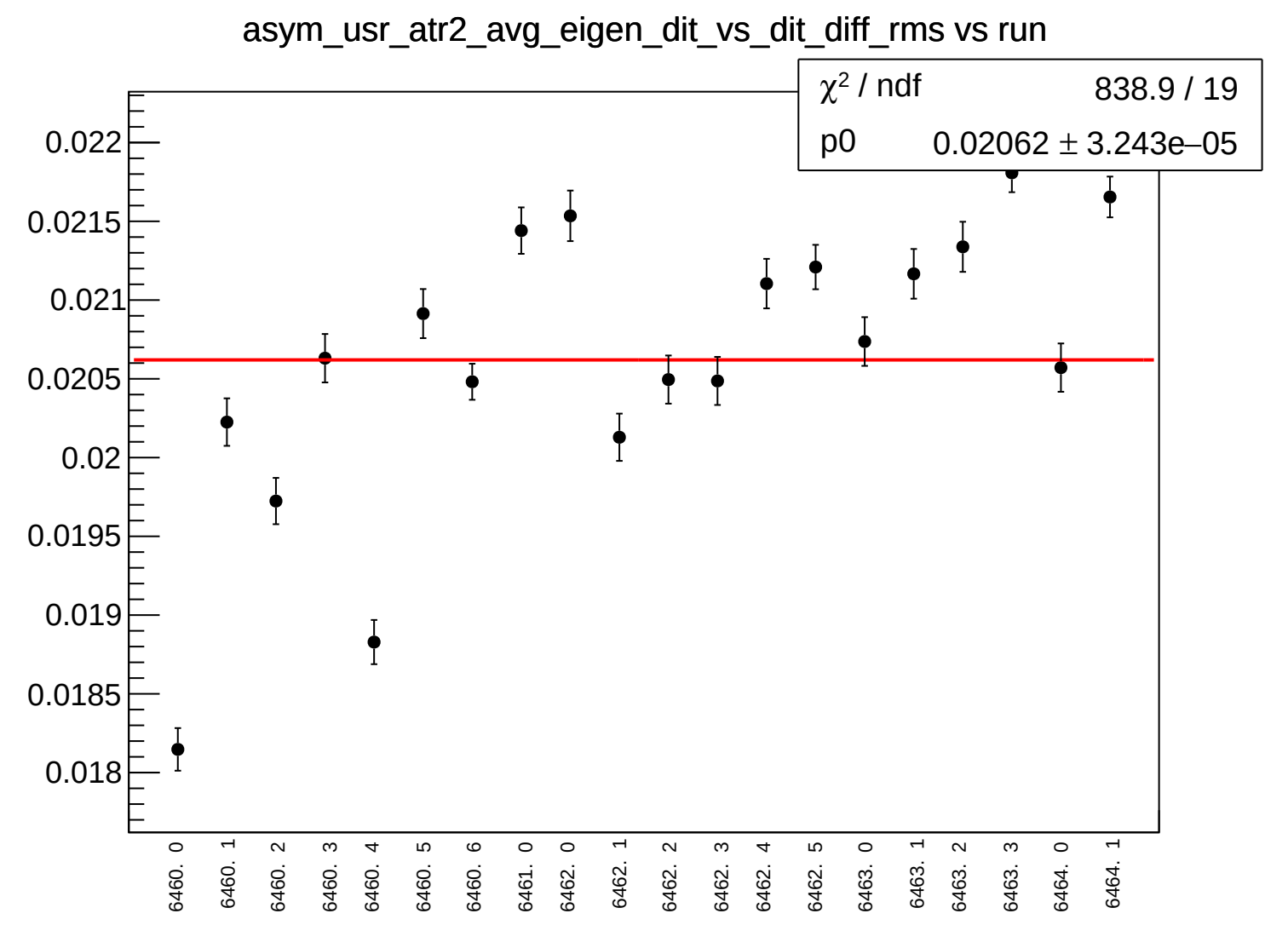

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 21.62 / 19
p0 −0.06251 ± 0.4636
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.87
Std Dev 0
pull1D
Entries 20
Mean −0.06993
Std Dev 1.037


asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2861 / 19
p0 208 ± 0.3278
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

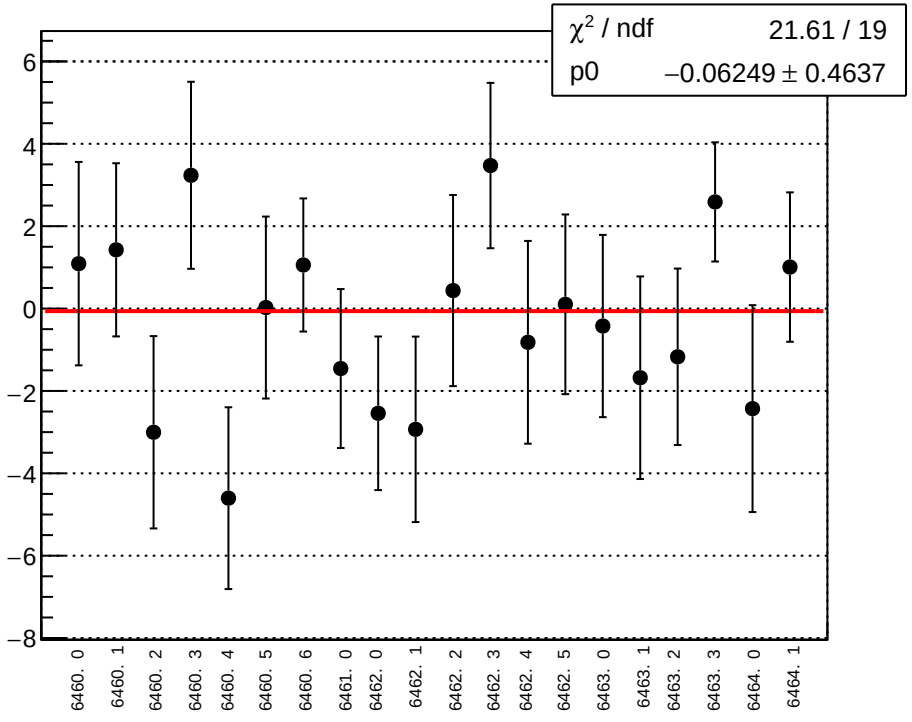

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.62 / 19
p0 −0.06251± 0.4636
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.87
Std Dev 0
pull1D
Entries 20
Mean −0.06993
Std Dev 1.037

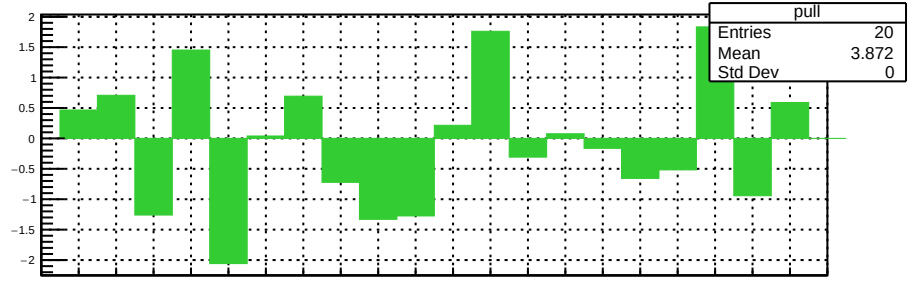

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2861 / 19
p0 208 ± 0.3278
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

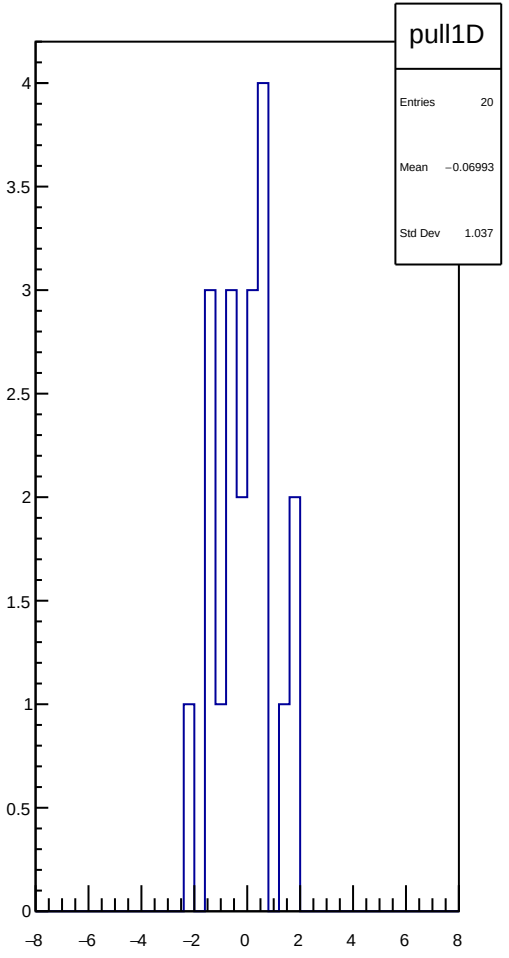

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 14.79 / 19
p0 3.776e−05 ± 4.586e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 44.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02978
Std Dev 0.8594
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

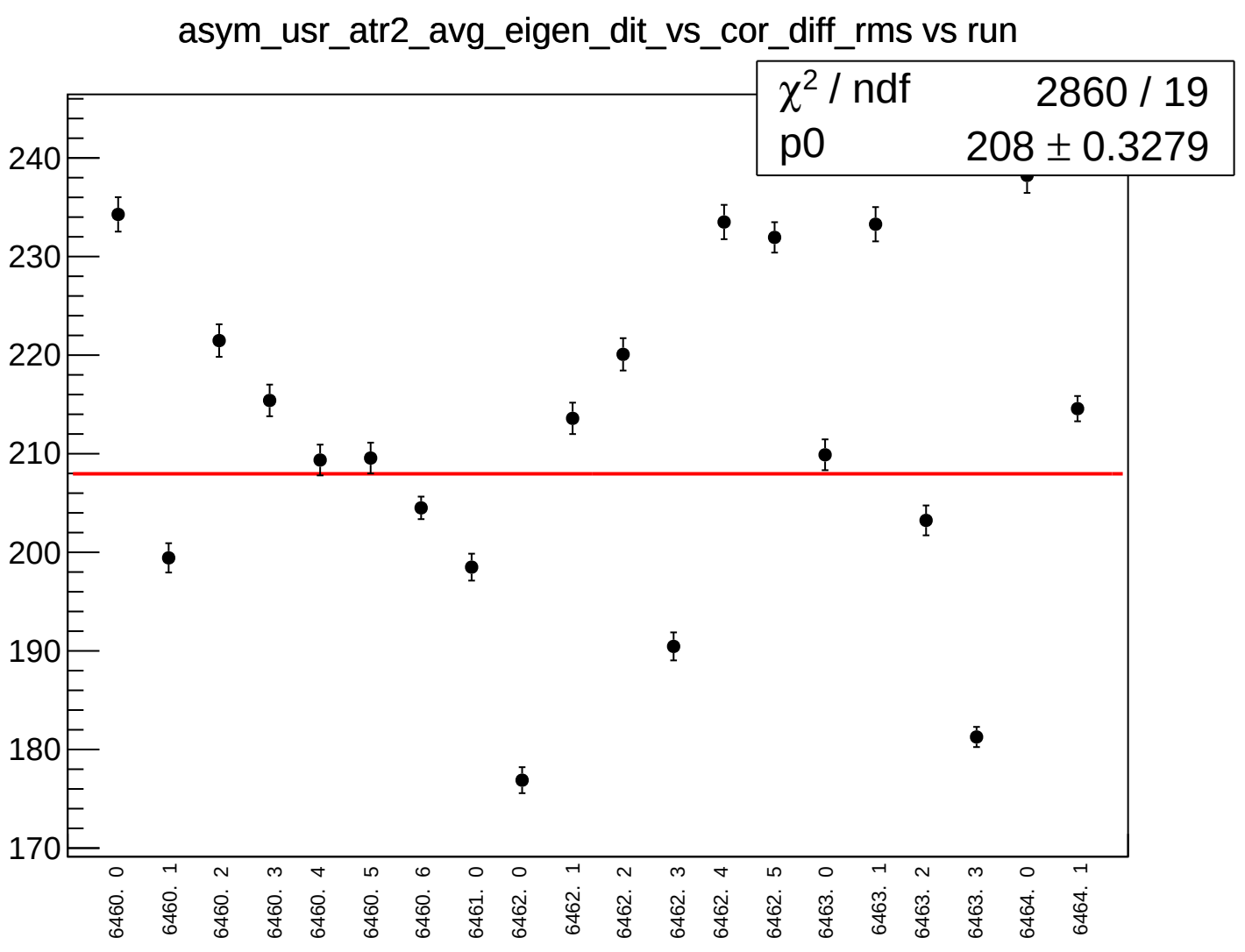

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 838.9 / 19
p0 0.02062 ± 3.243e−05
0.022
0.0215
0.021
0.0205
0.02
0.0195
0.019
0.0185
0.018
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

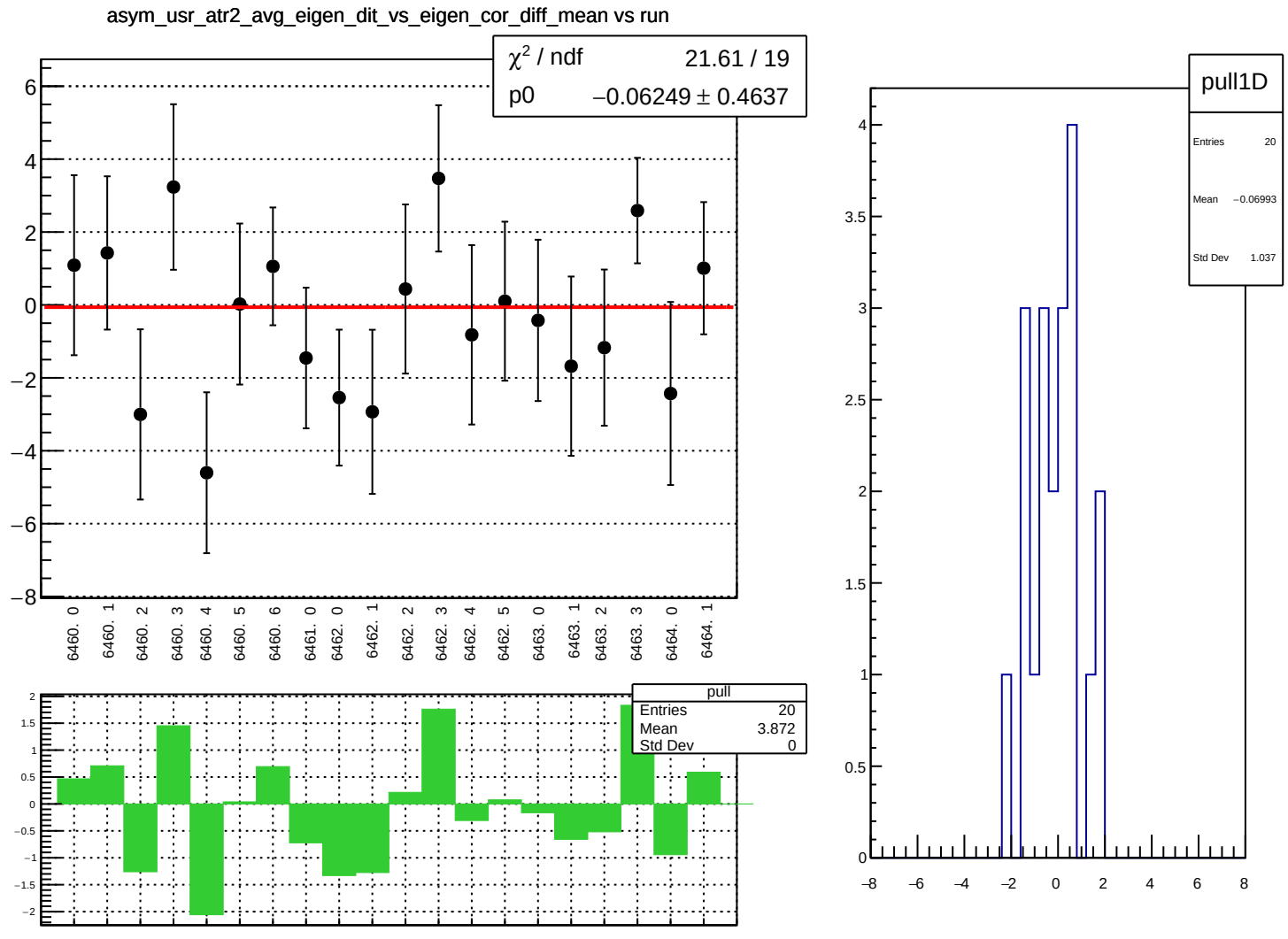
asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run

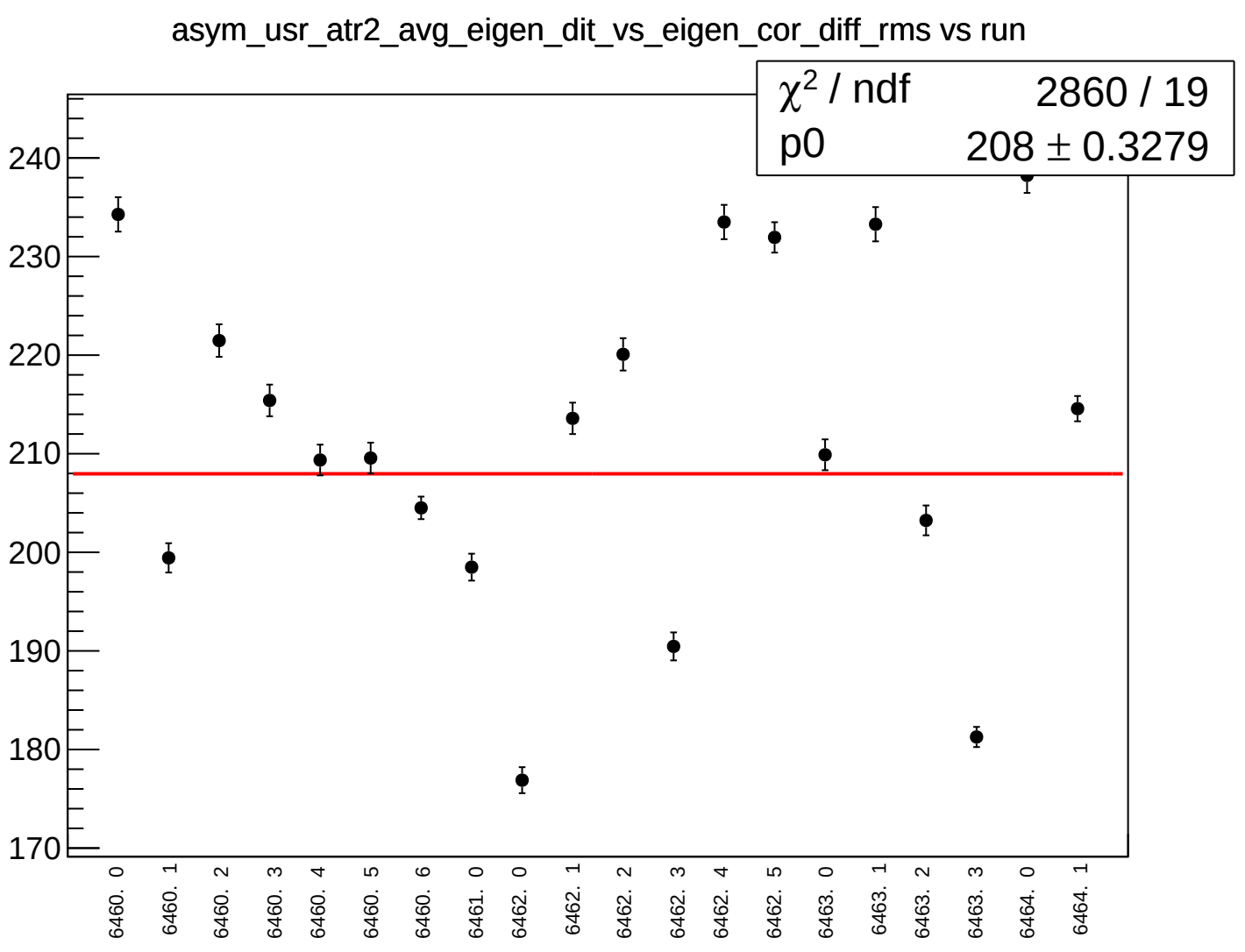


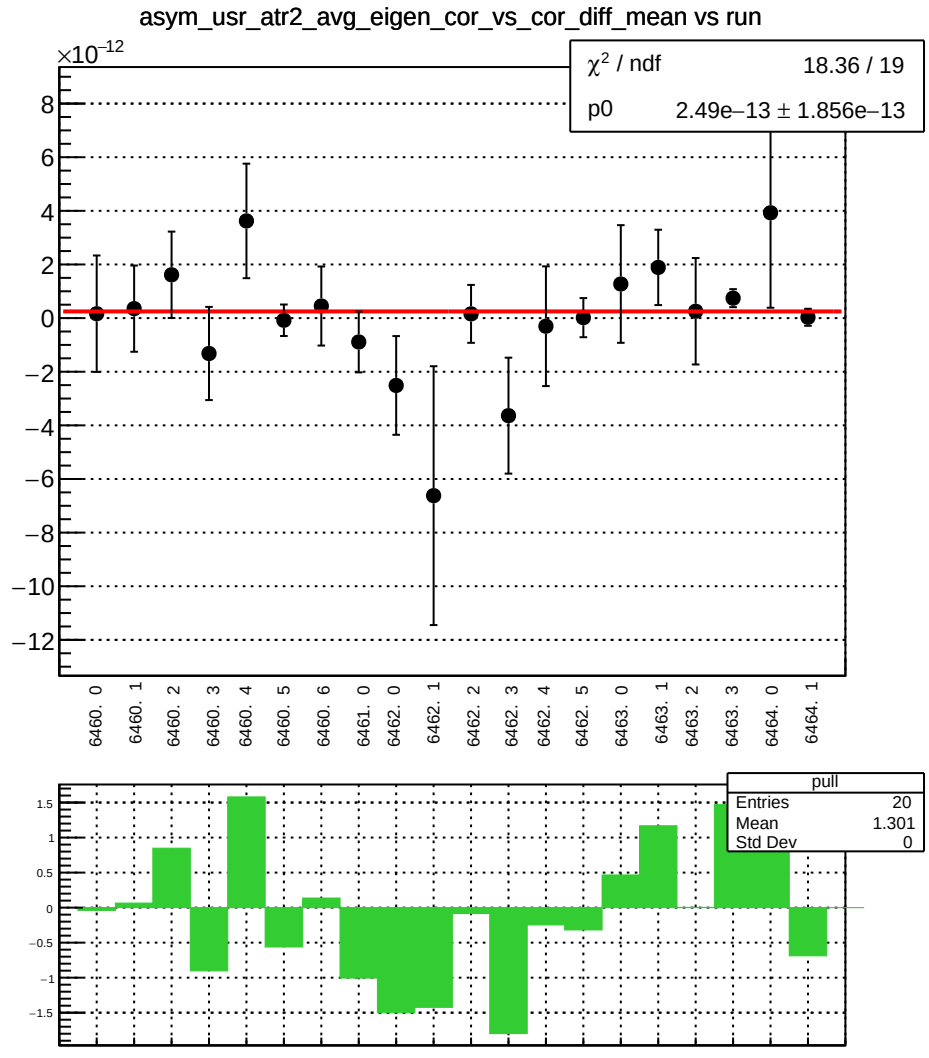


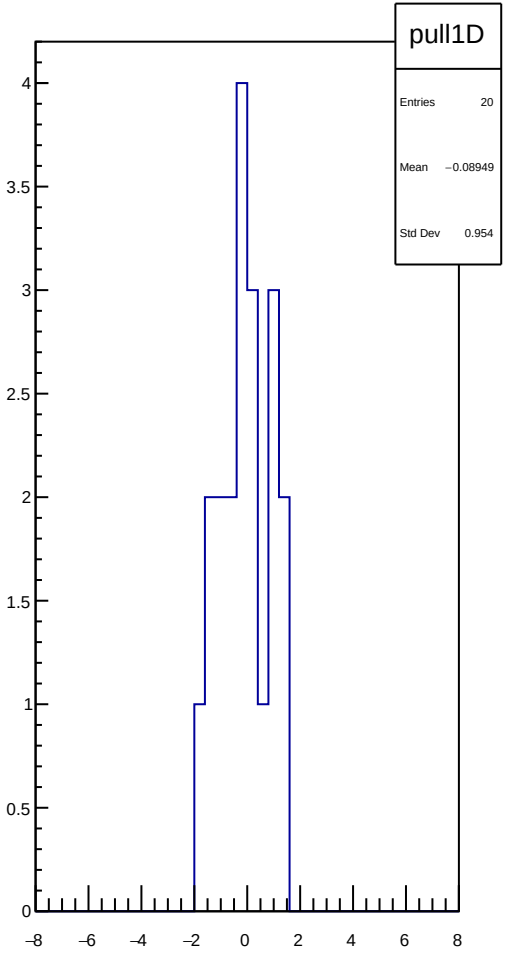


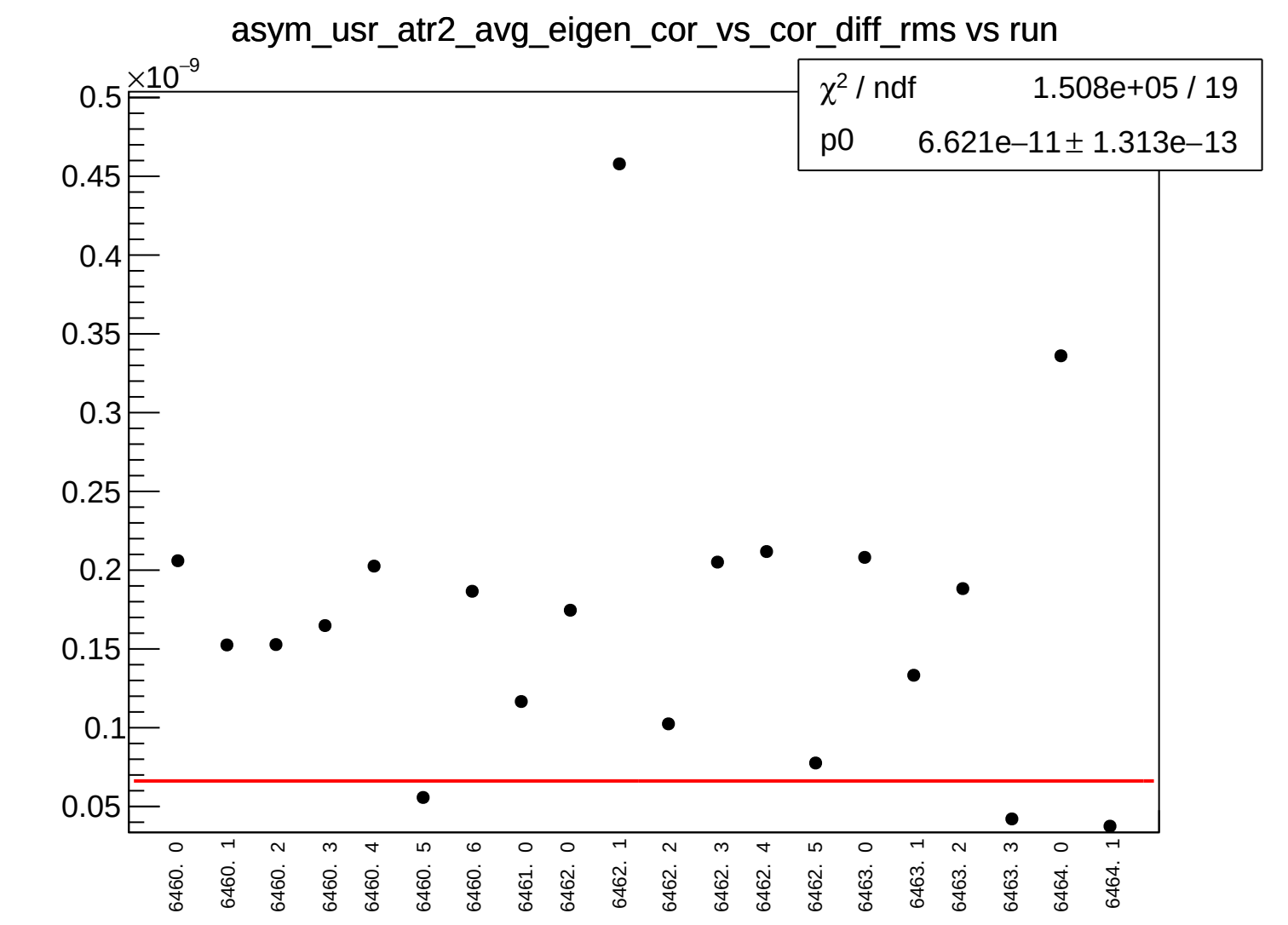

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2860 / 19
p0 208 ± 0.3279
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

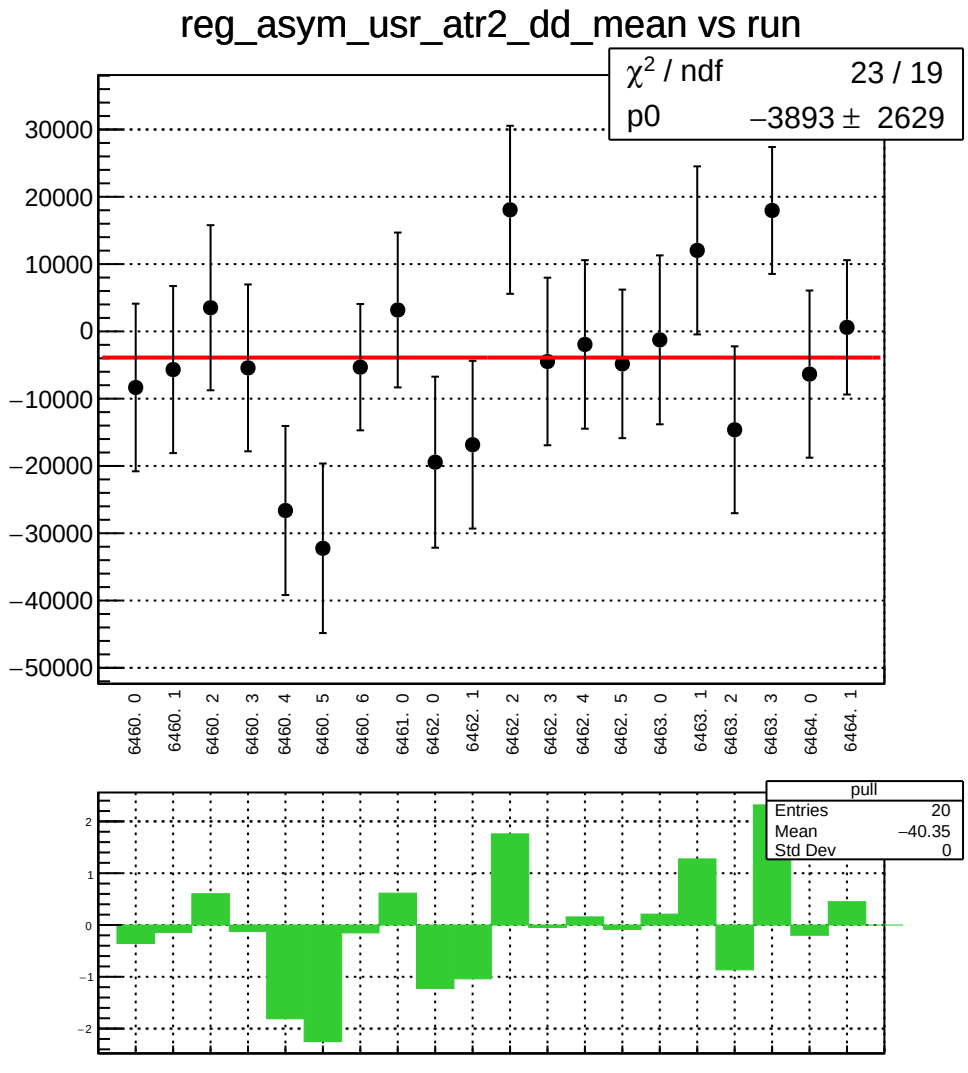

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.61 / 19
p0 −0.06249 ± 0.4637
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.872
Std Dev 0
pull1D
Entries 20
Mean −0.06993
Std Dev 1.037

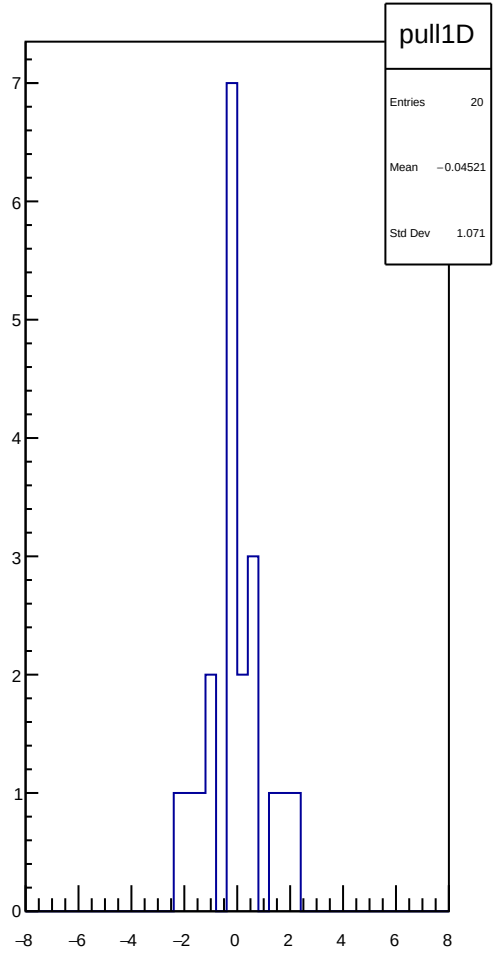

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2860 / 19
p0 208 ± 0.3279
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

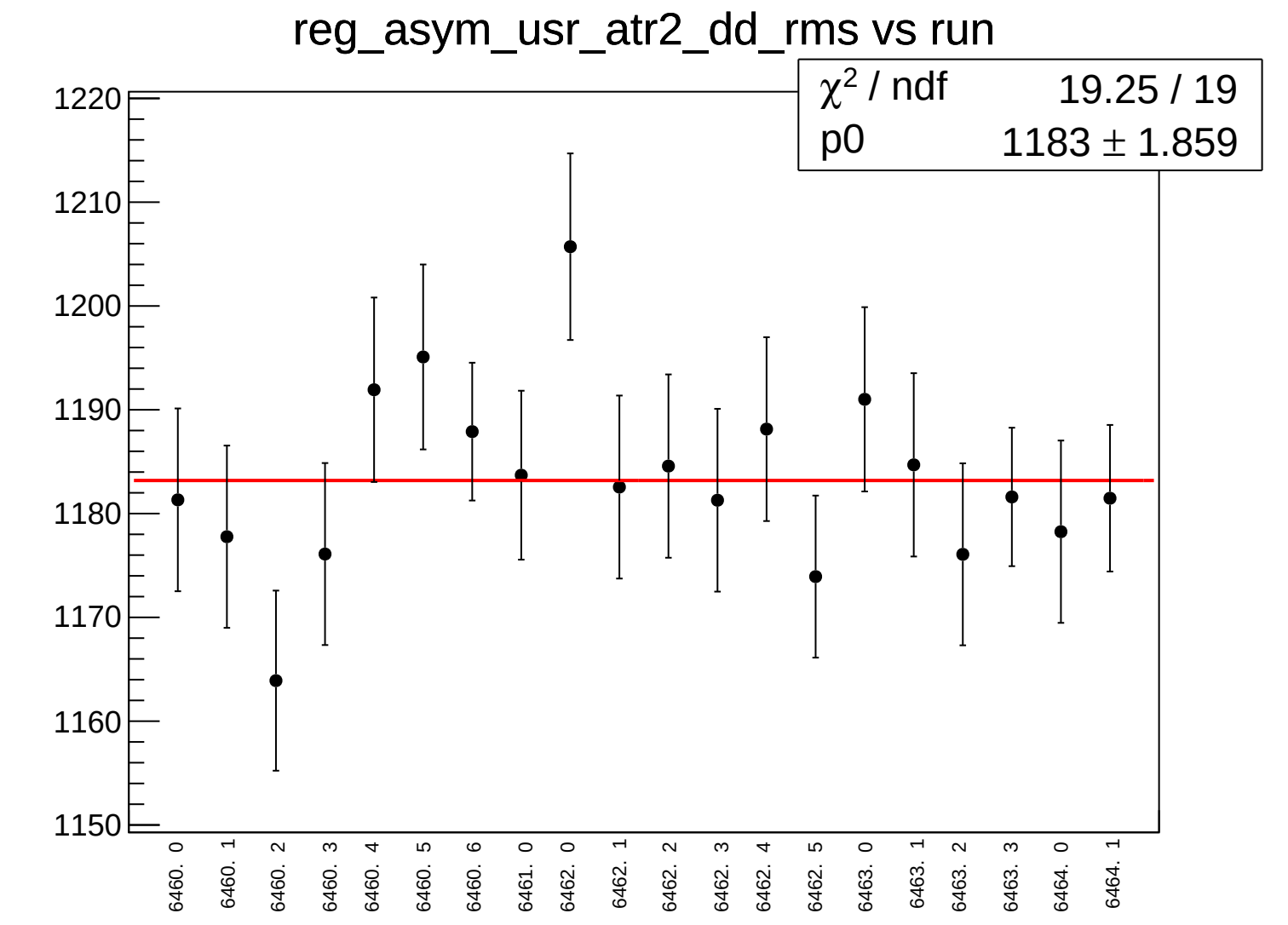

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.36 / 19
p0 2.49e−13 ± 1.856e−13
8
6
4
2
0
−2
−4
−6
−8
−10
−12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.301
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

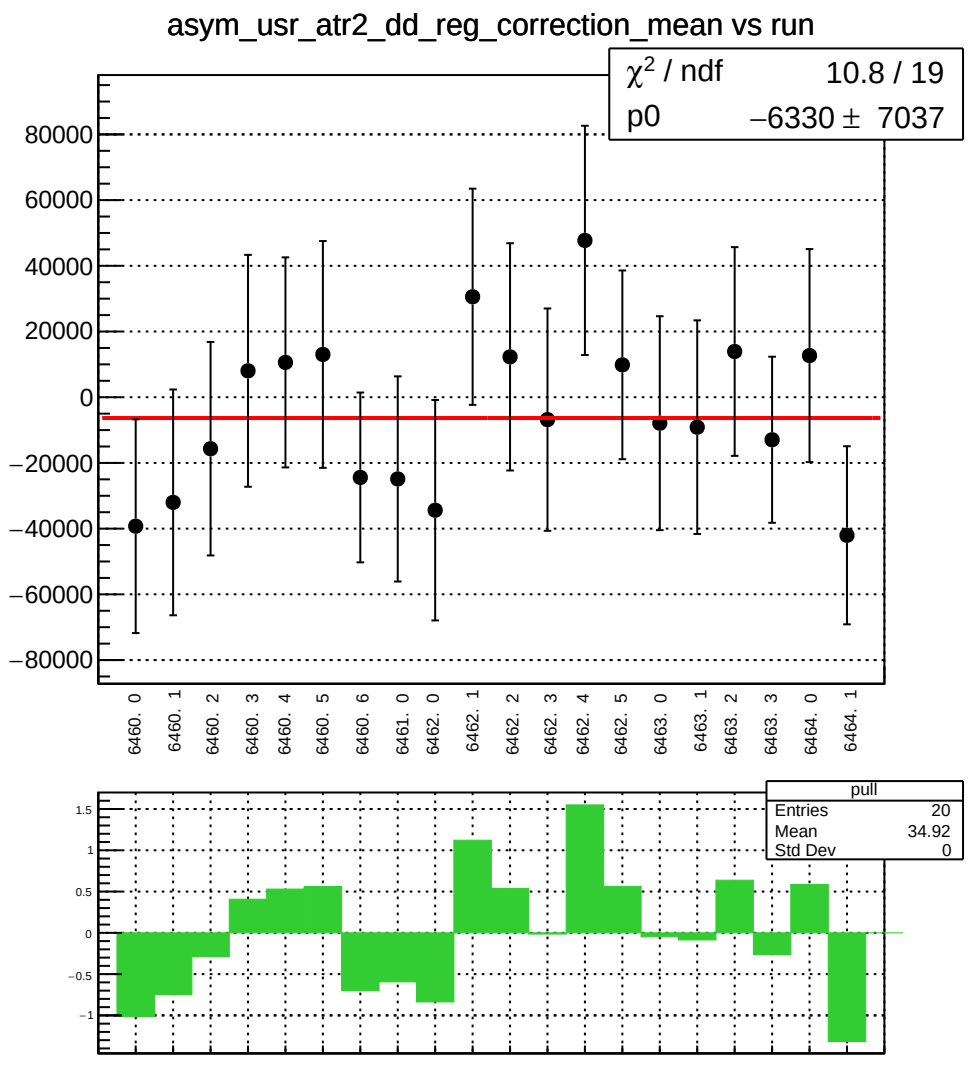

pull1D
Entries 20
Mean −0.08949
Std Dev 0.954
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

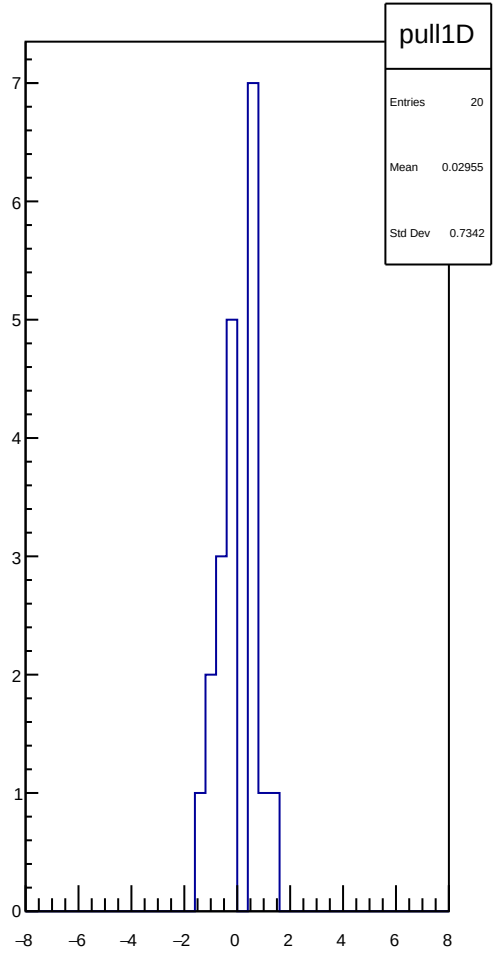

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.508e+05 / 19
p0 6.621e−11 ± 1.313e−13
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

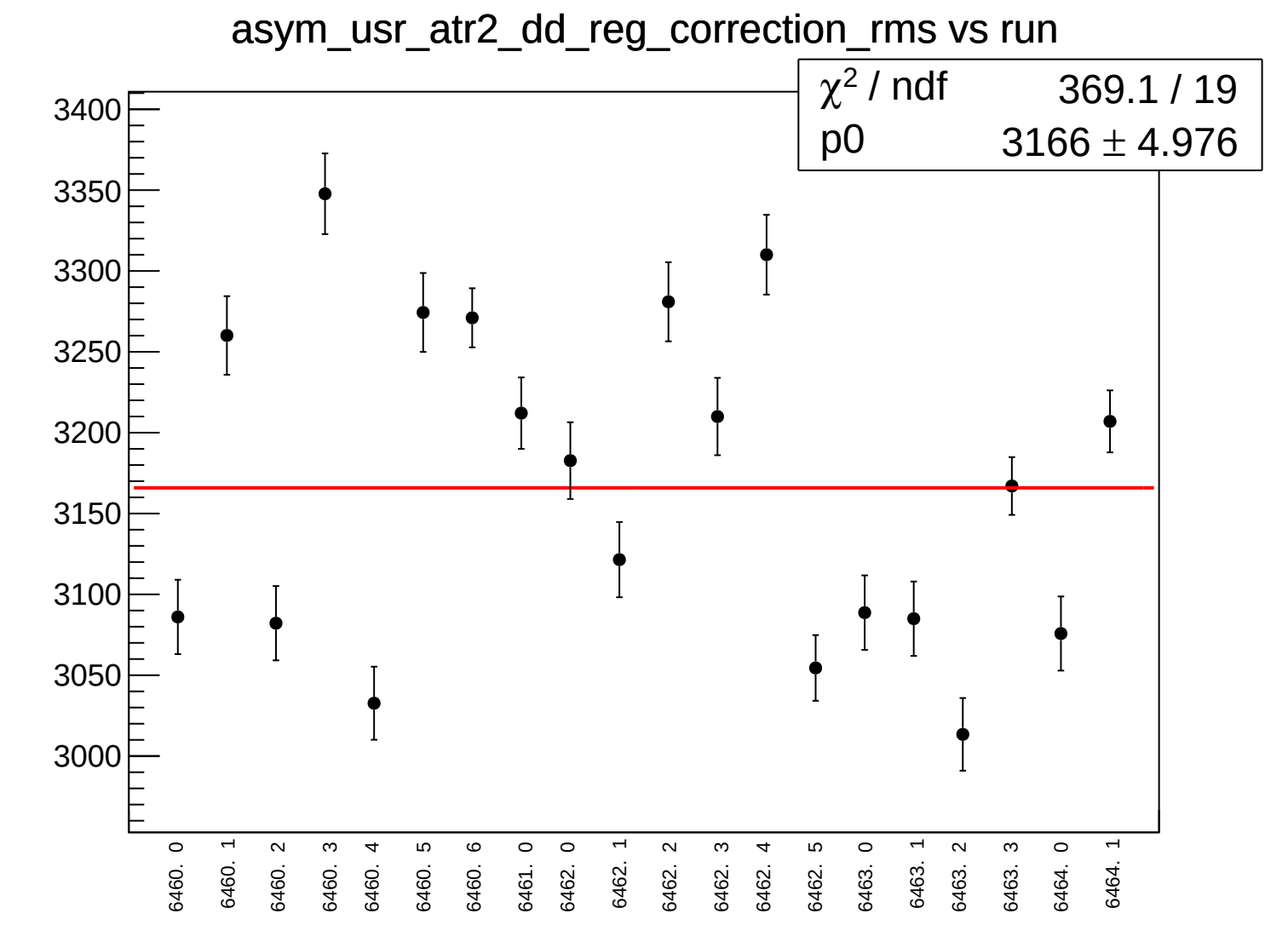

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 23 / 19
p0 −3893 ± 2629
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −40.35
Std Dev 0
2
1
0
−1
−2

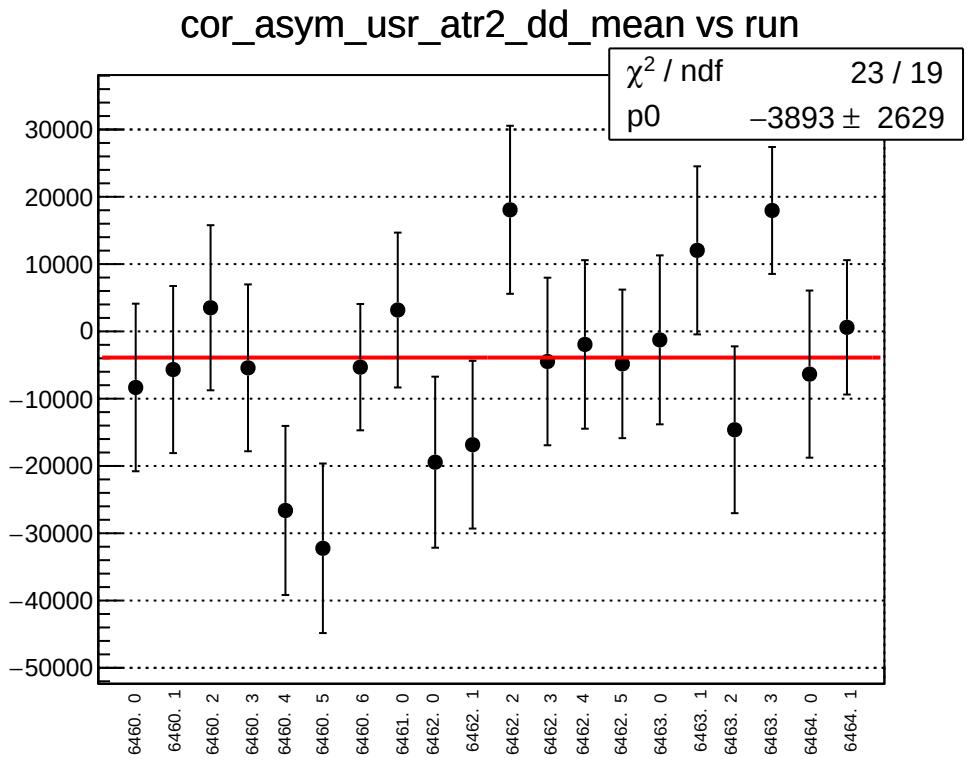

pull1D
Entries 20
Mean −0.04521
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

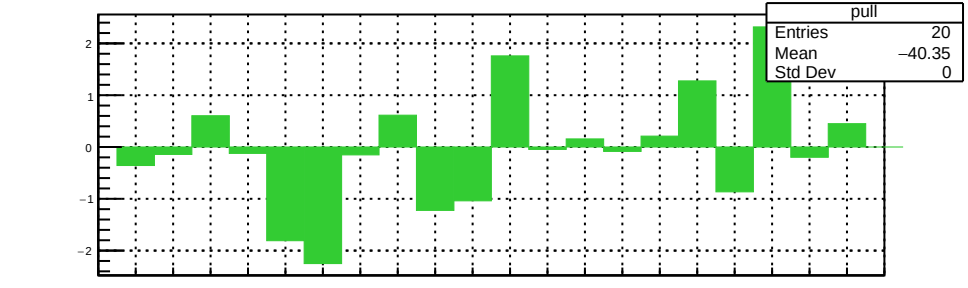

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 19.25 / 19
p0 1183 ± 1.859
1220
1210
1200
1190
1180
1170
1160
1150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

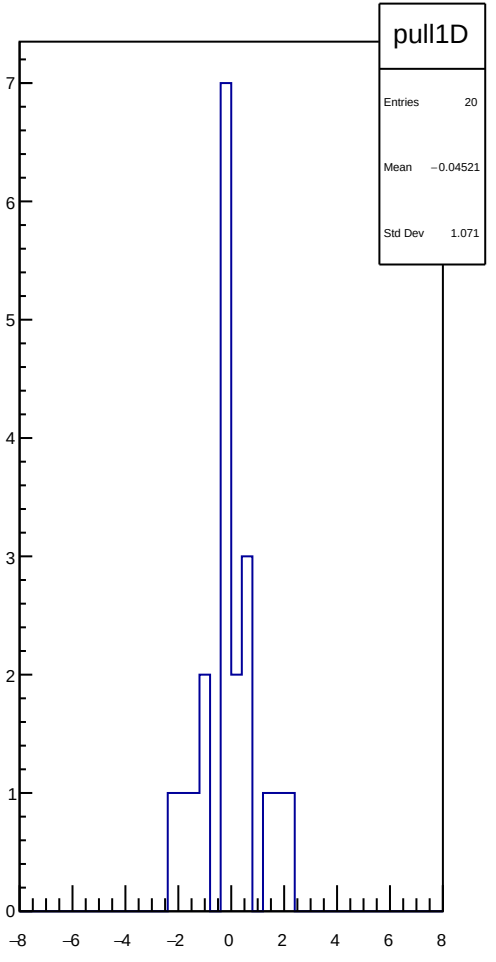

asym_usr_atr2_dd_reg_correction_mean vs run
χ² / ndf 10.8 / 19
p0 −6330 ± 7037
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1

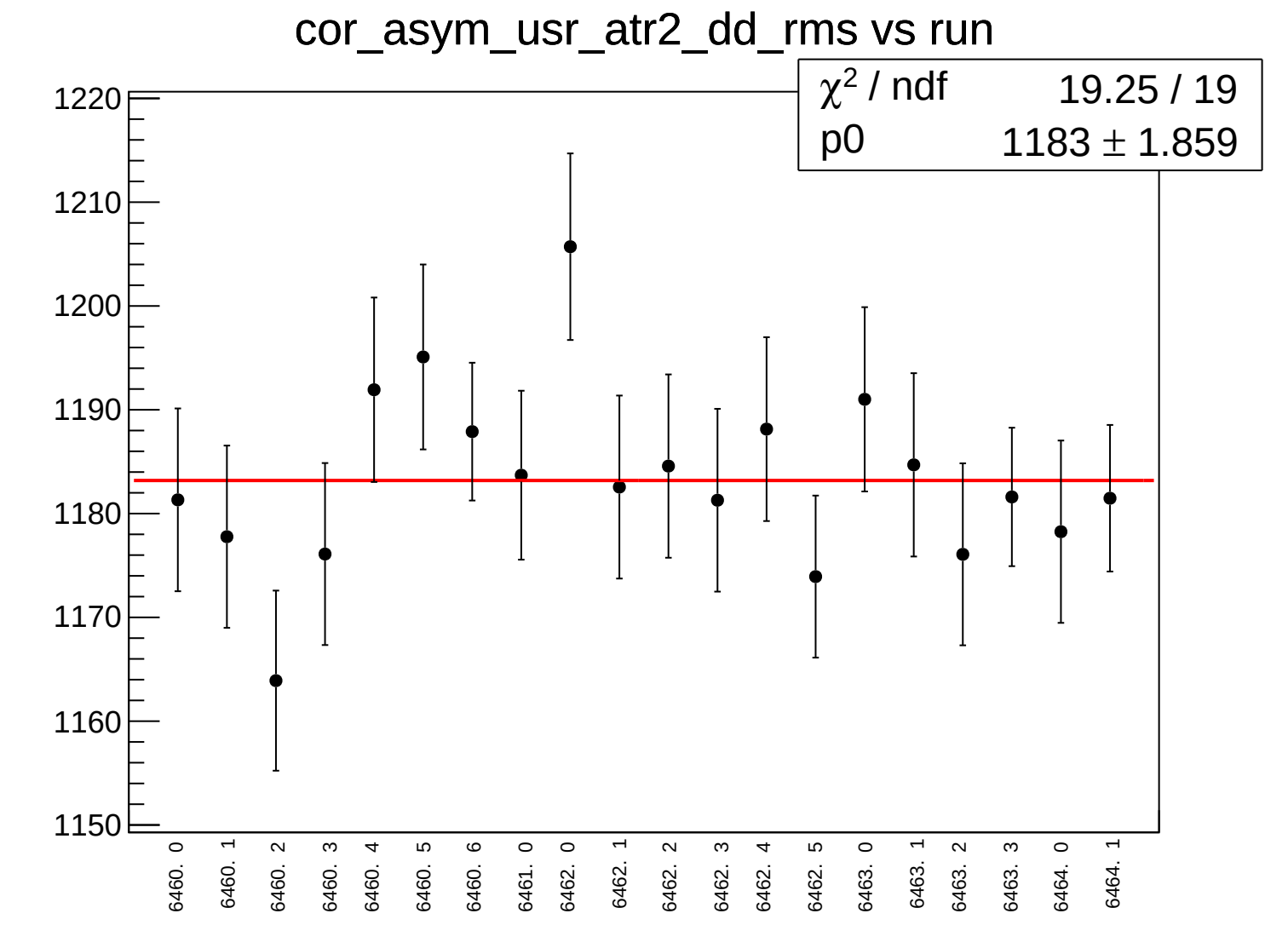

pull1D
Entries 20
Mean 0.02955
Std Dev 0.7342
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

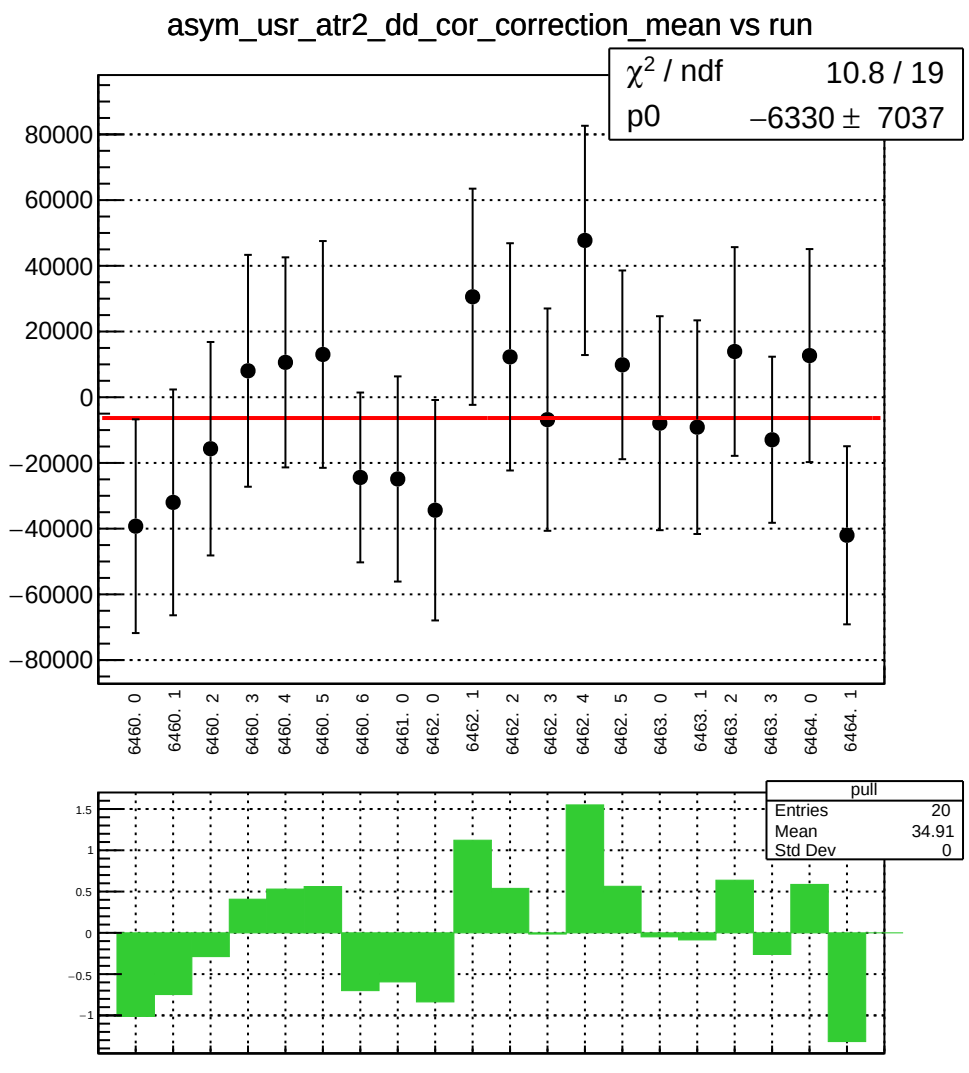

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 369.1 / 19
p0 3166 ± 4.976
3400
3350
3300
3250
3200
3150
3100
3050
3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

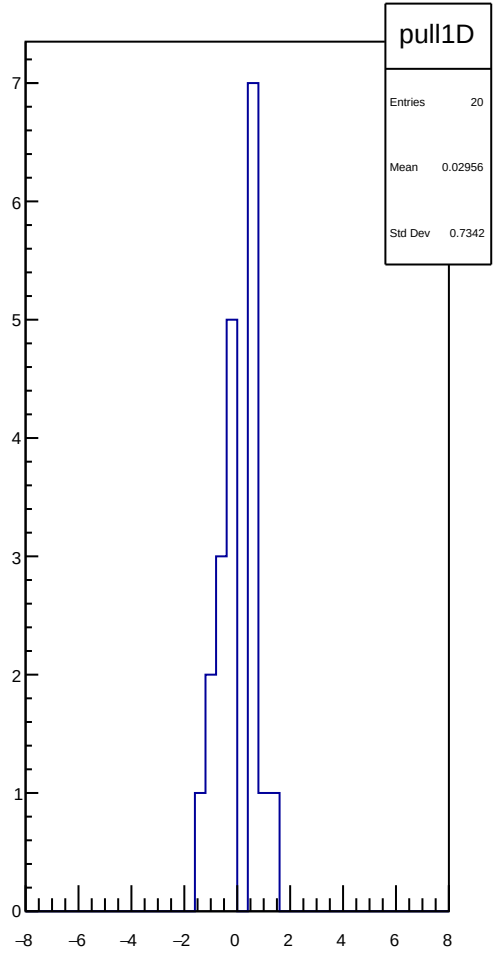

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 23 / 19
p0 −3893 ± 2629
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

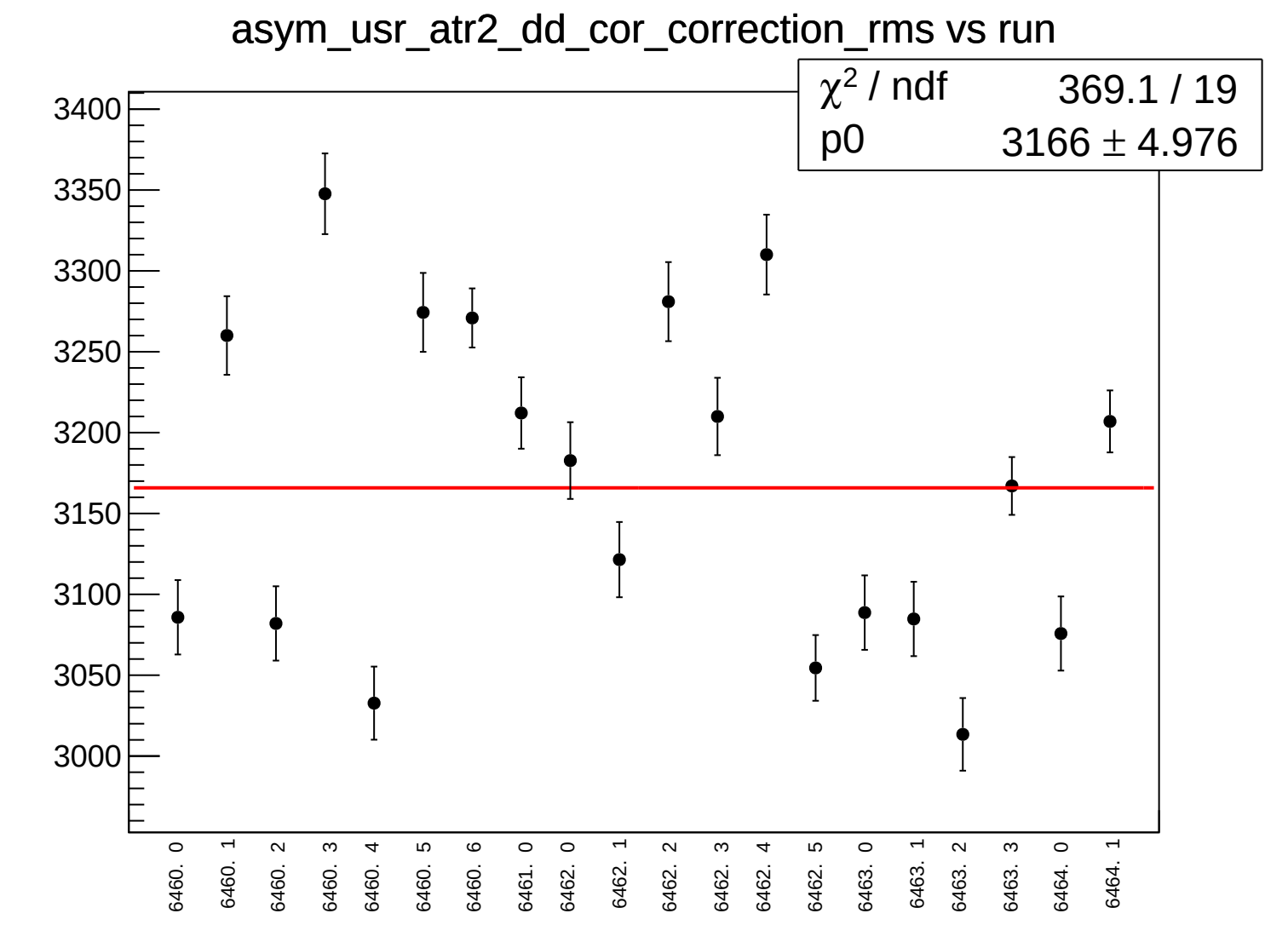

pull
Entries 20
Mean −40.35
Std Dev 0
2
1
0
−1
−2

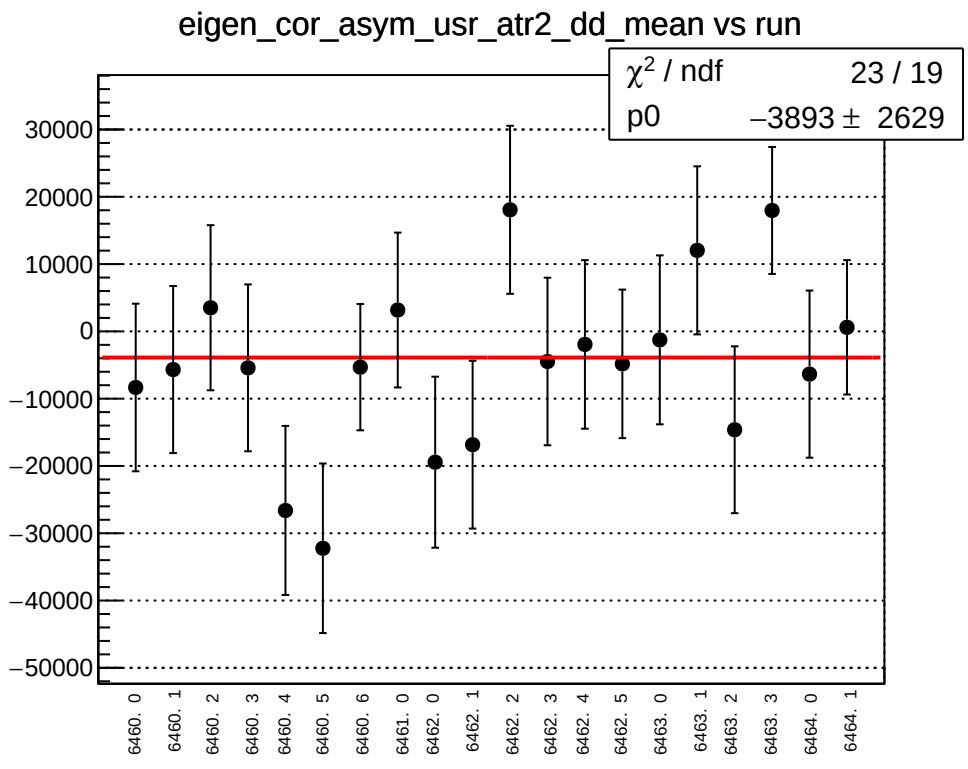

pull1D
Entries 20
Mean −0.04521
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

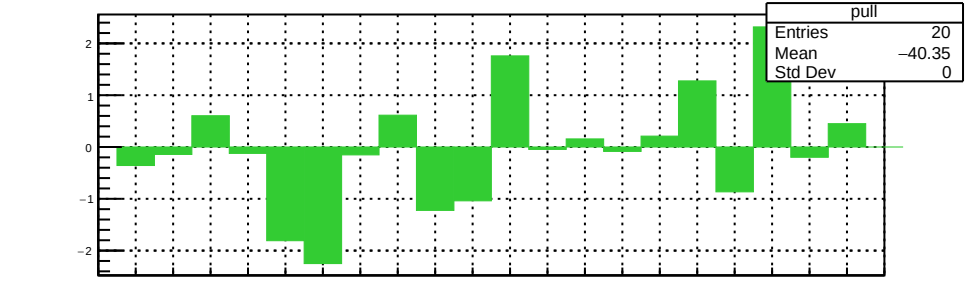

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 19.25 / 19
p0 1183 ± 1.859
1220
1210
1200
1190
1180
1170
1160
1150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

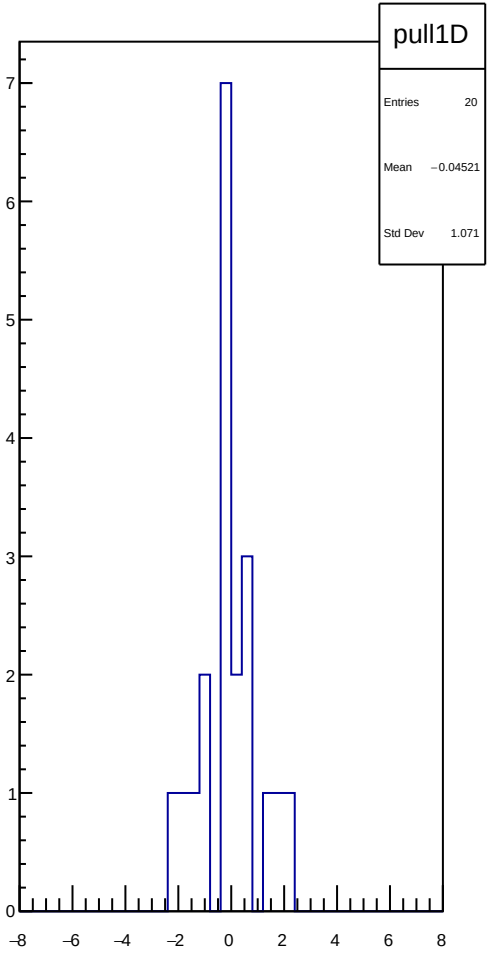

asym_usr_atr2_dd_cor_correction_mean vs run
χ² / ndf 10.8 / 19
p0 −6330 ± 7037
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1

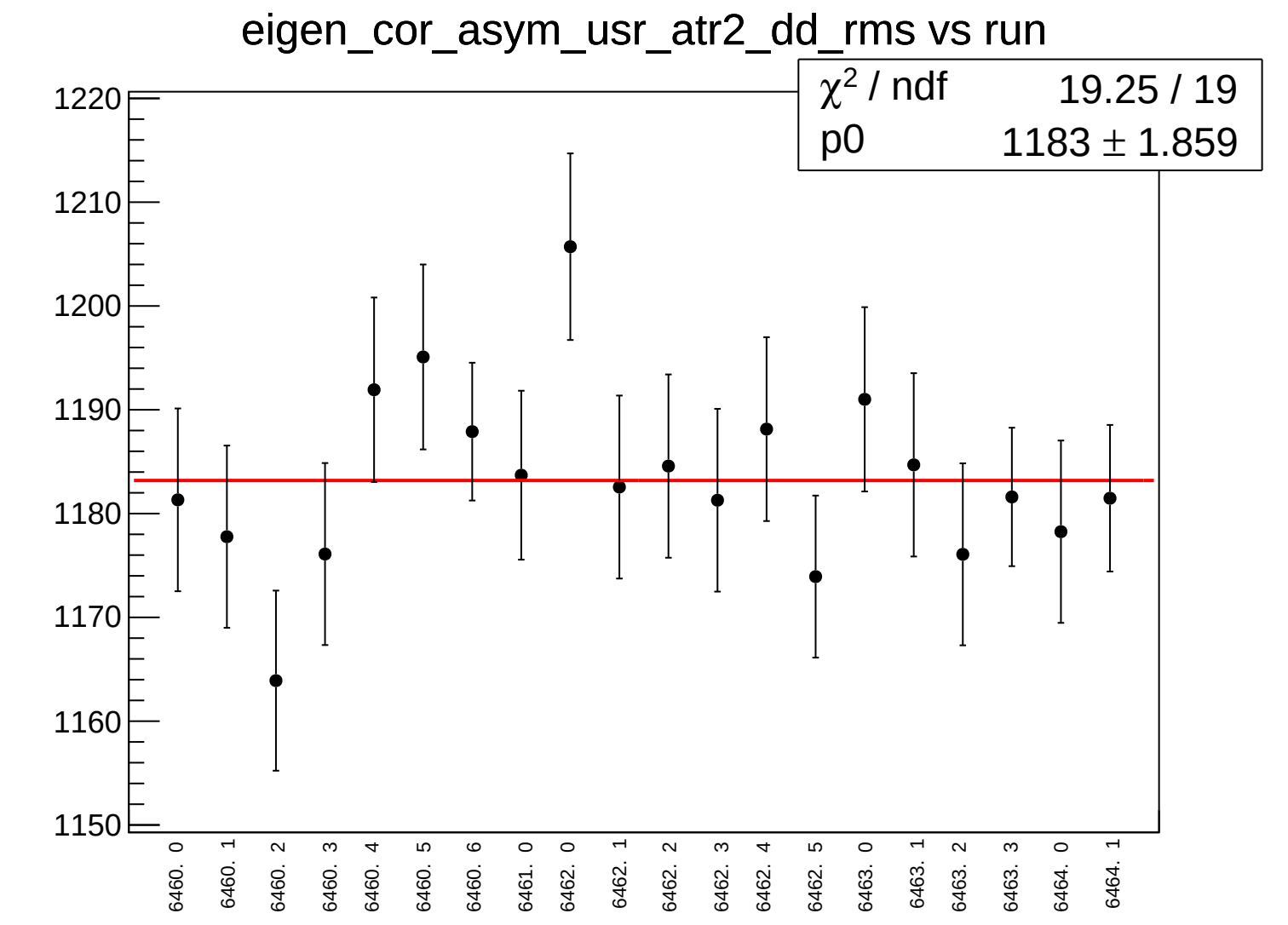

pull1D
Entries 20
Mean 0.02956
Std Dev 0.7342
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

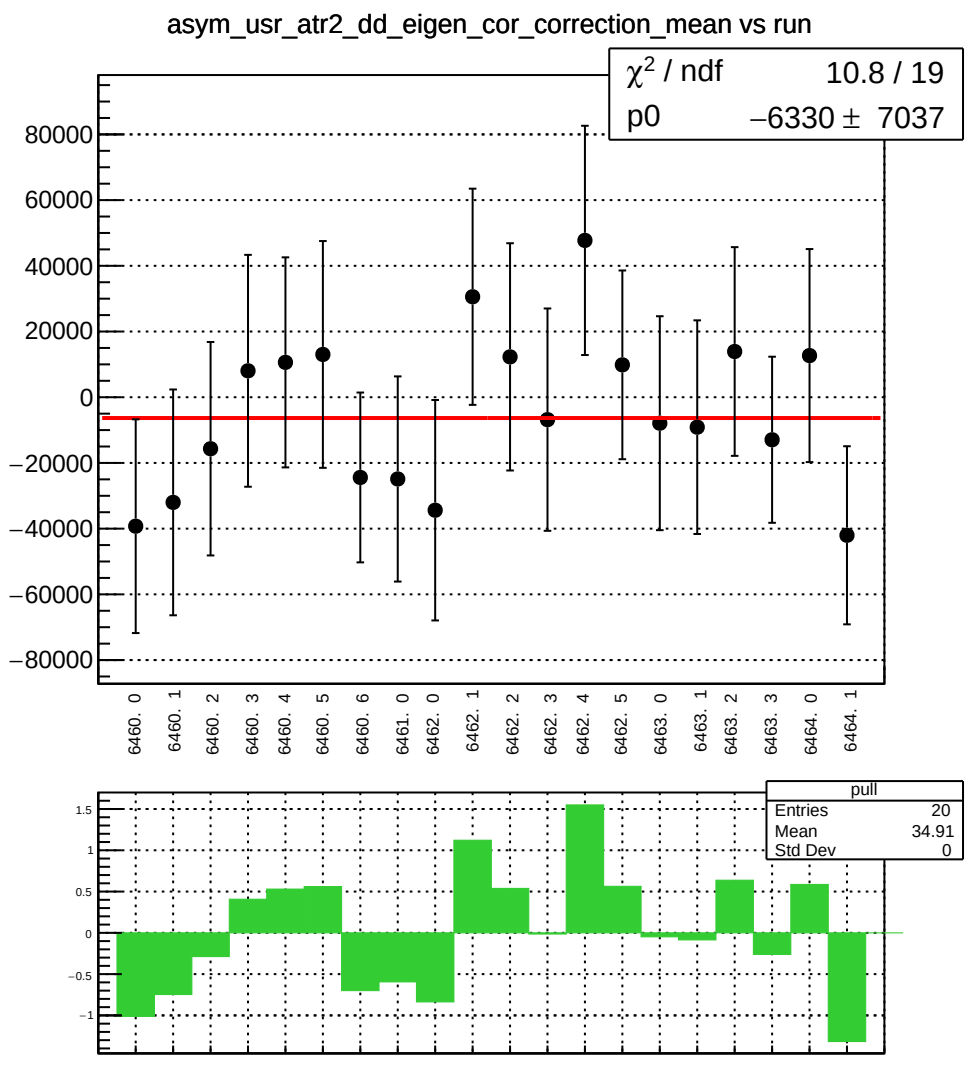

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 369.1 / 19
p0 3166 ± 4.976
3400
3350
3300
3250
3200
3150
3100
3050
3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

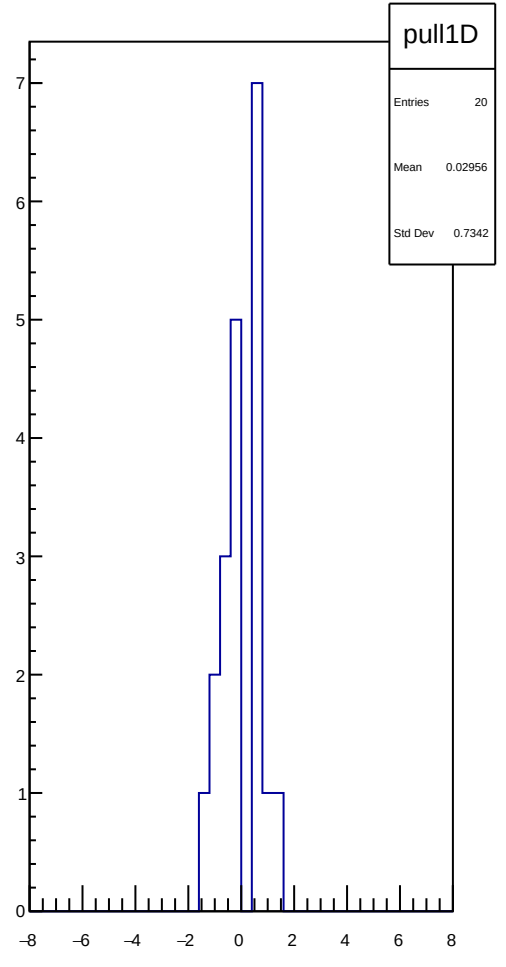

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 23 / 19
p0 −3893 ± 2629
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

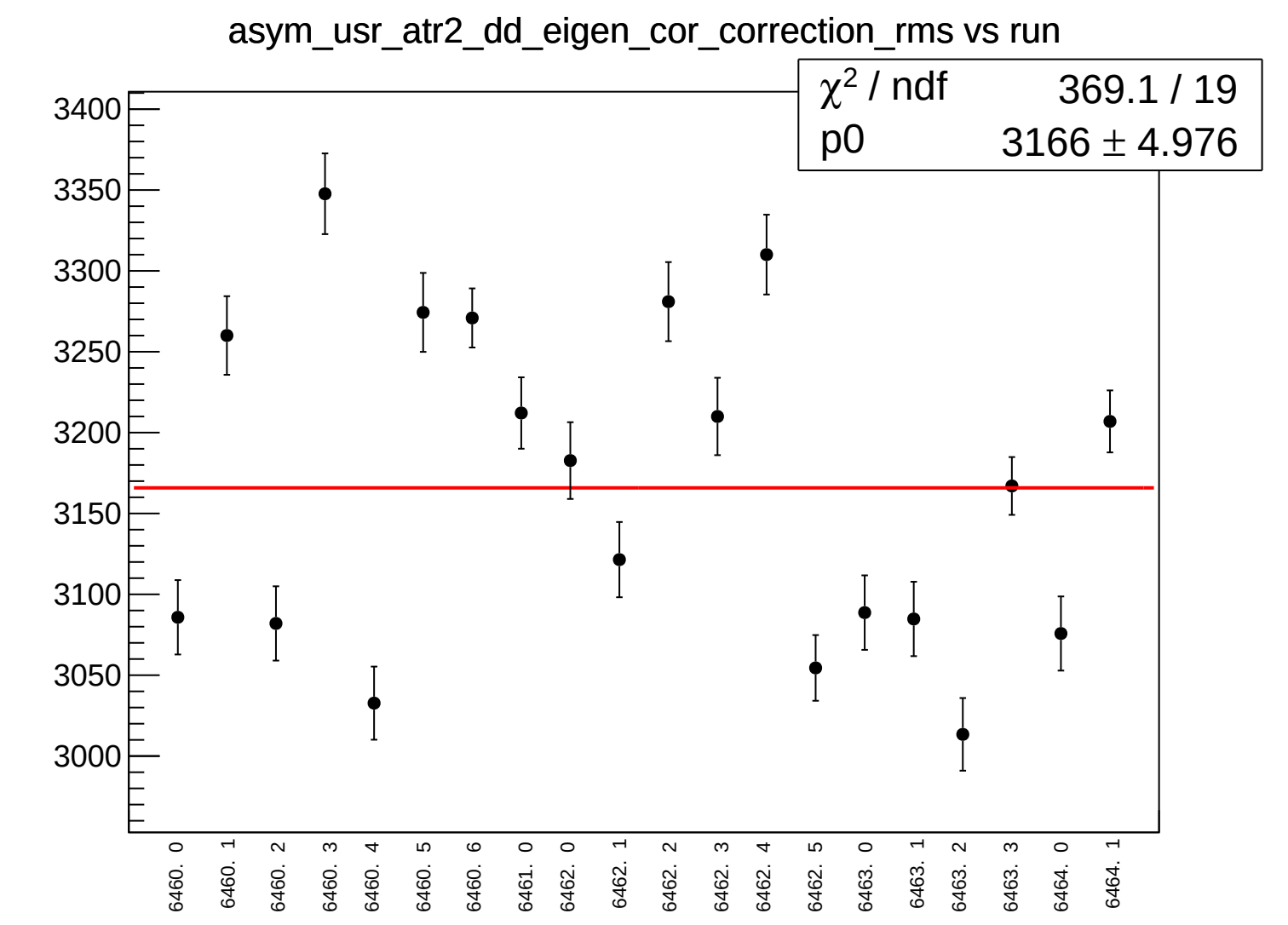

pull
Entries 20
Mean −40.35
Std Dev 0
2
1
0
−1
−2

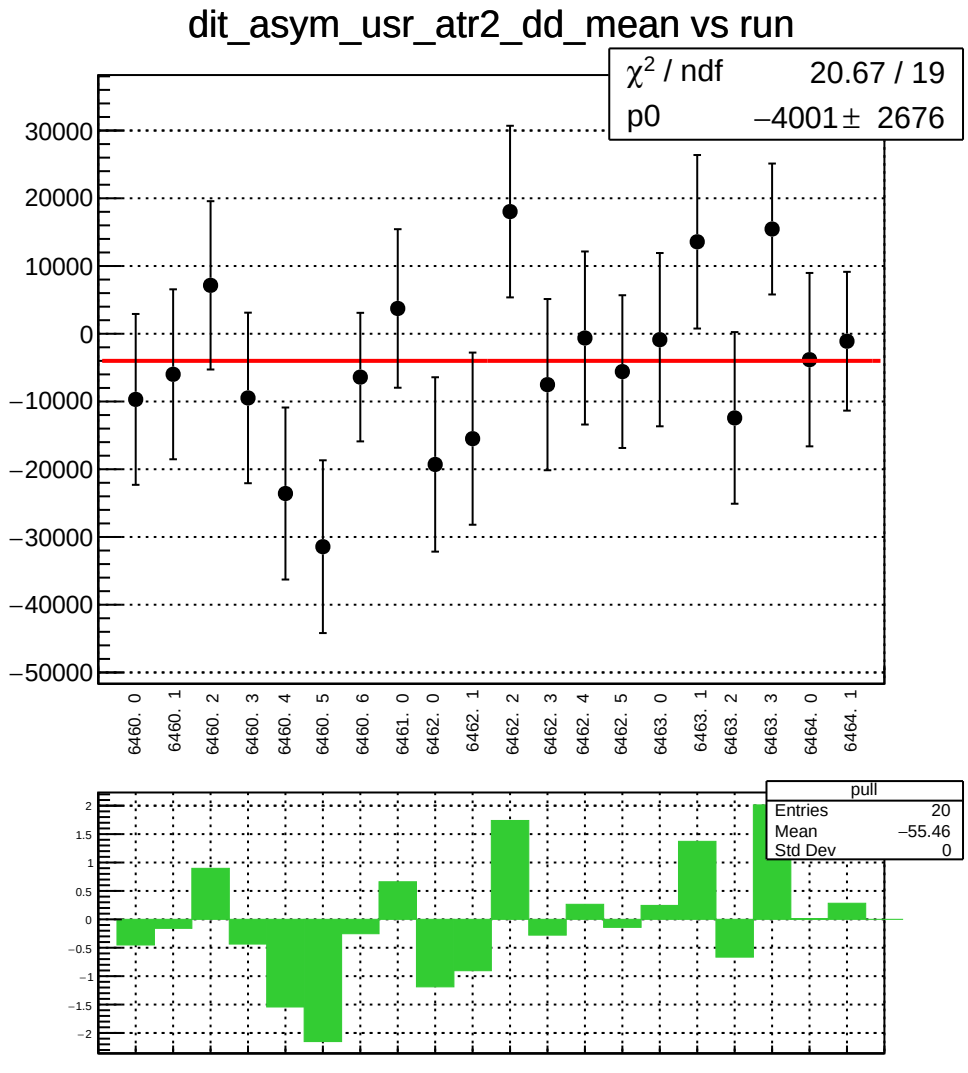

pull1D
Entries 20
Mean −0.04521
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

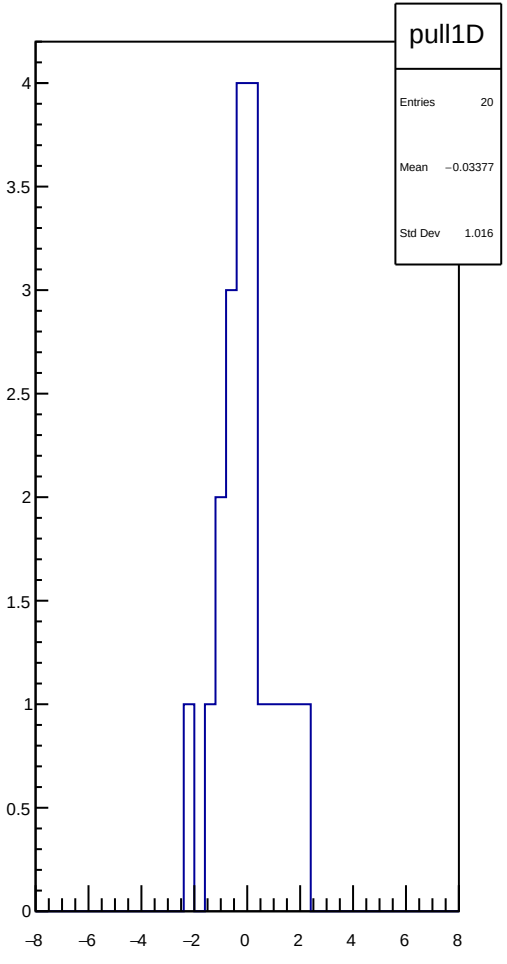

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 19.25 / 19
p0 1183 ± 1.859
1220
1210
1200
1190
1180
1170
1160
1150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

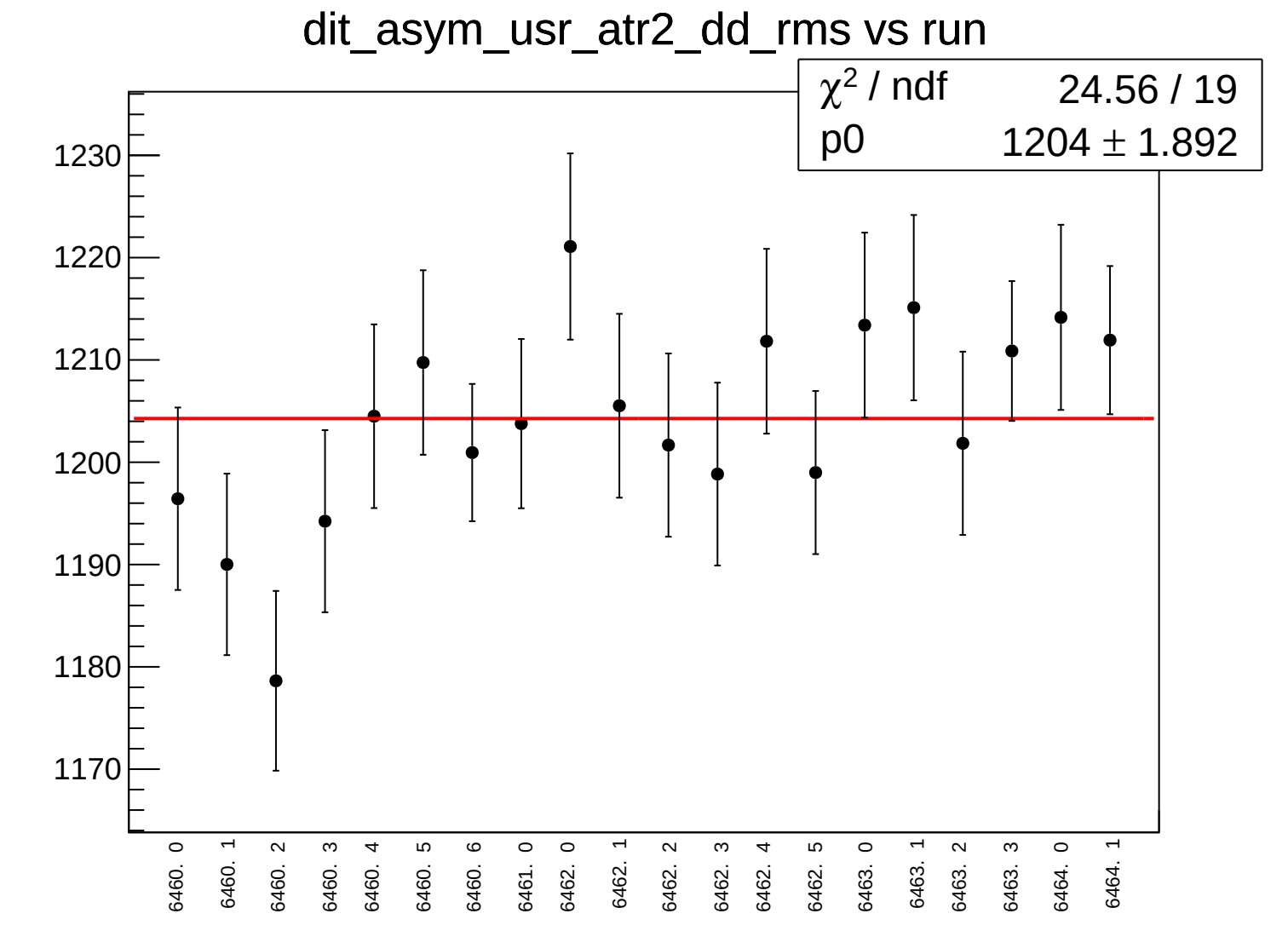

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
χ² / ndf 10.8 / 19
p0 −6330 ± 7037
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1

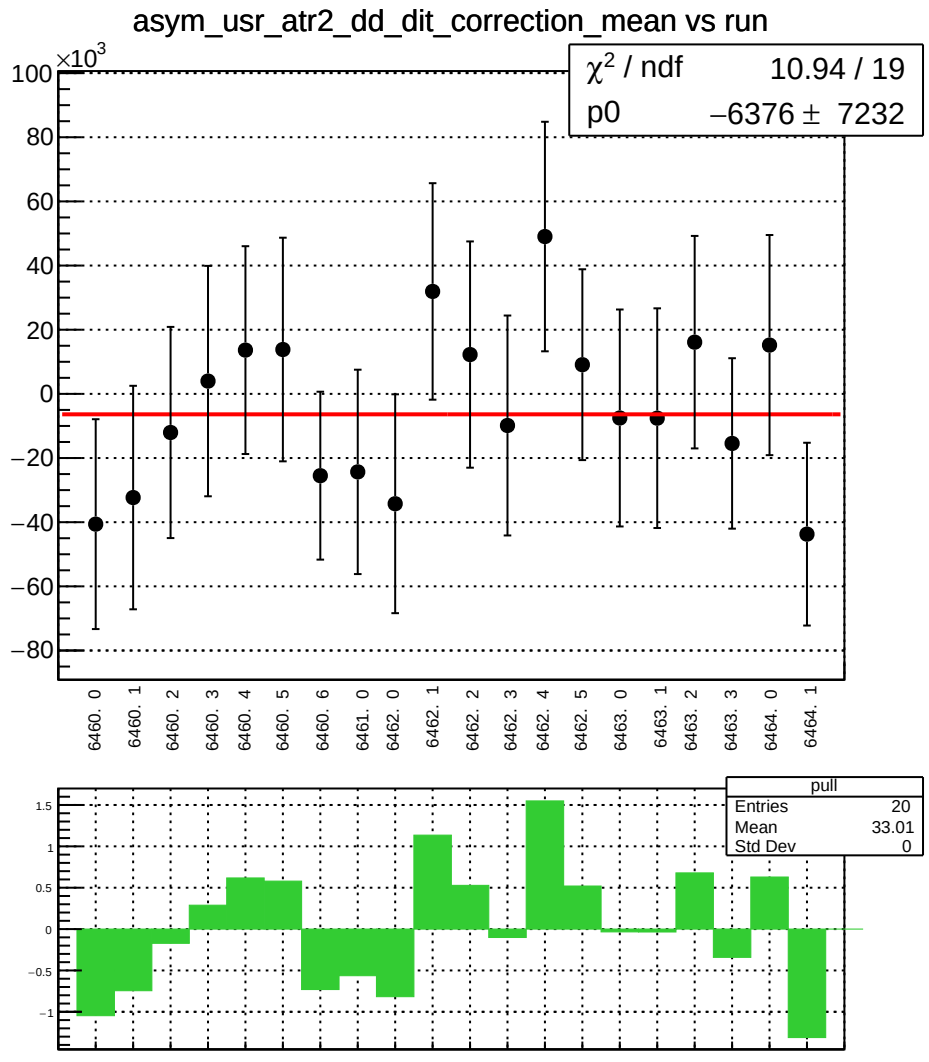

pull1D
Entries 20
Mean 0.02956
Std Dev 0.7342
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

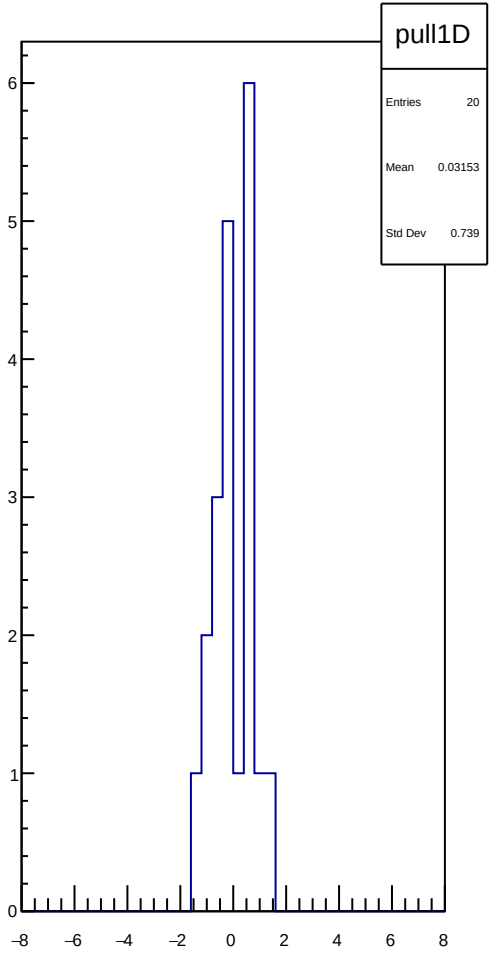

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 369.1 / 19
p0 3166 ± 4.976
3400
3350
3300
3250
3200
3150
3100
3050
3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

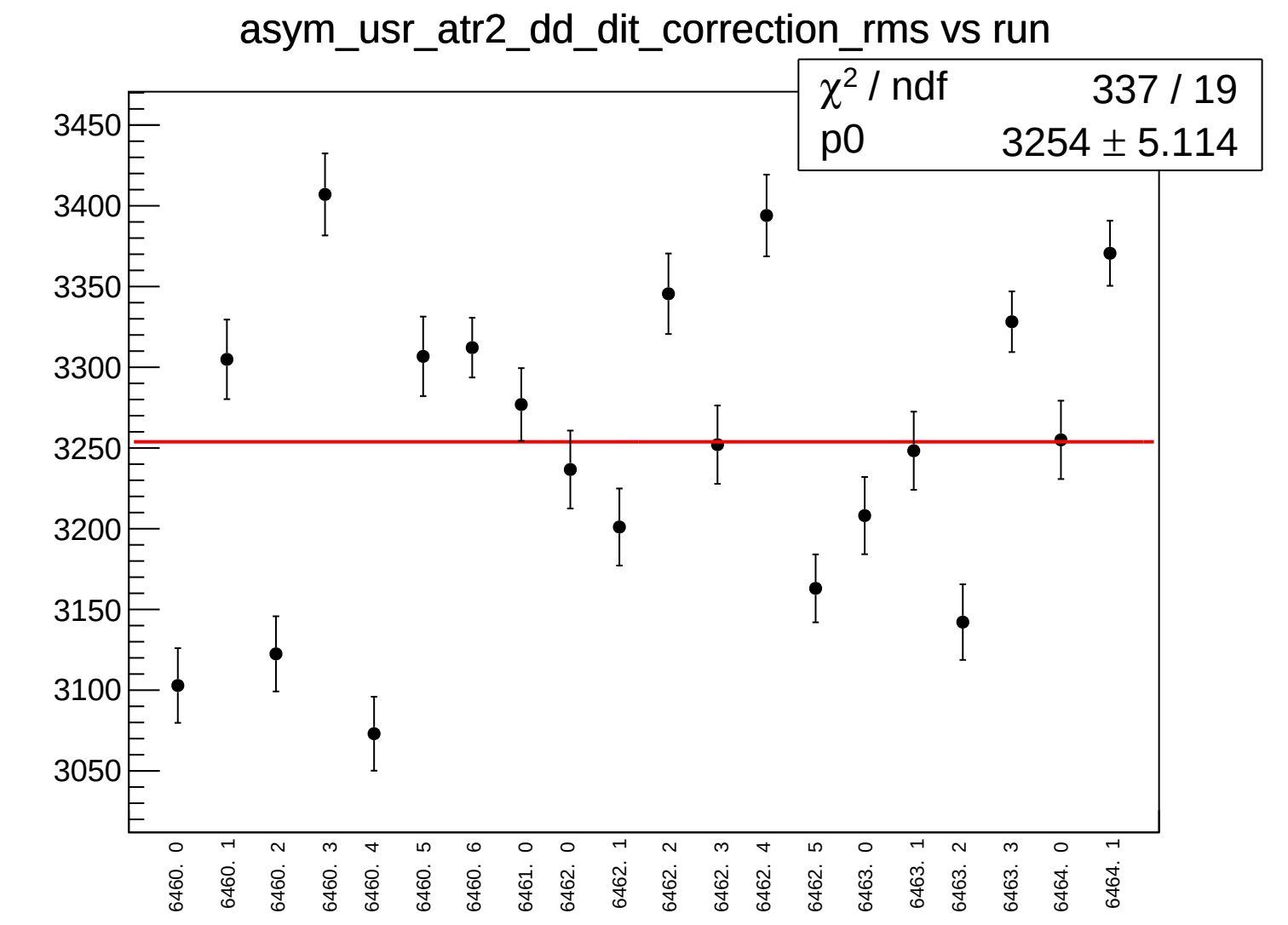

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 20.67 / 19
p0 −4001 ± 2676
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −55.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

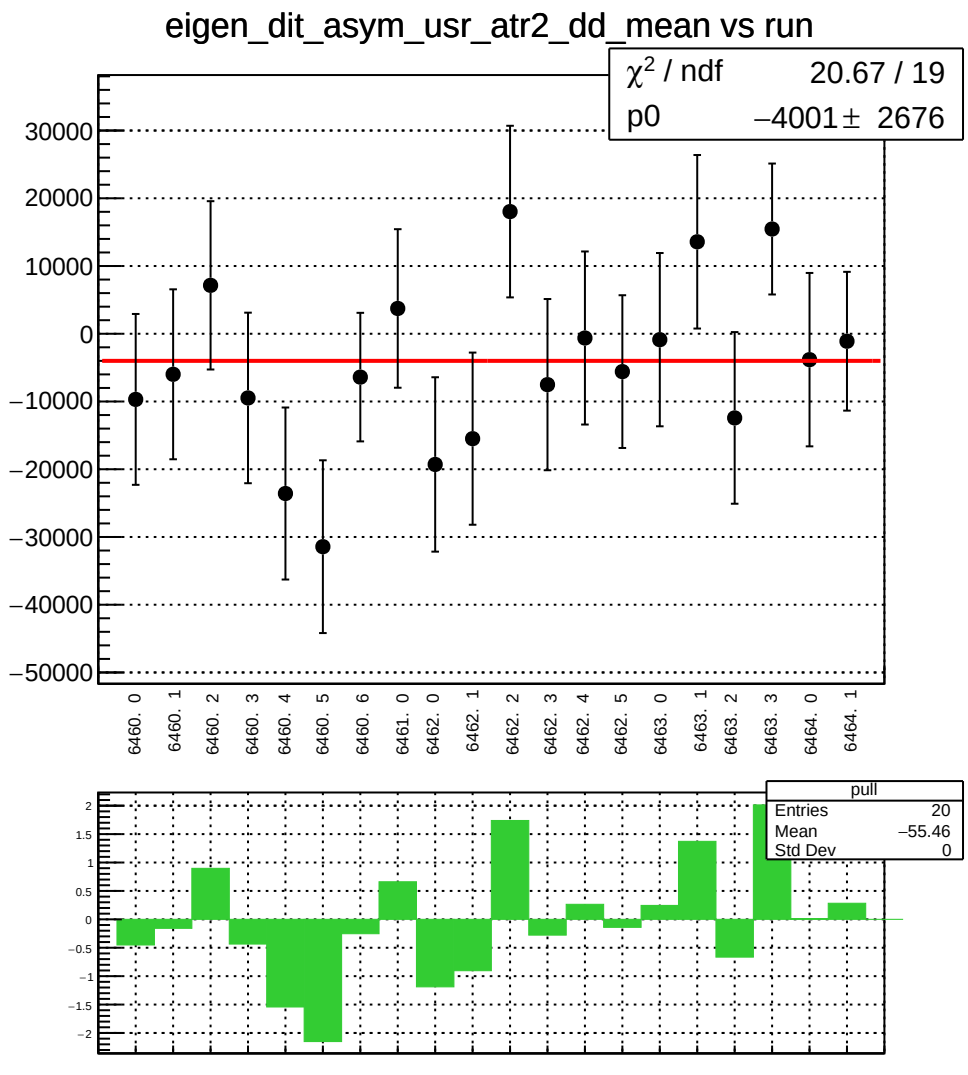

pull1D
Entries 20
Mean −0.03377
Std Dev 1.016
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

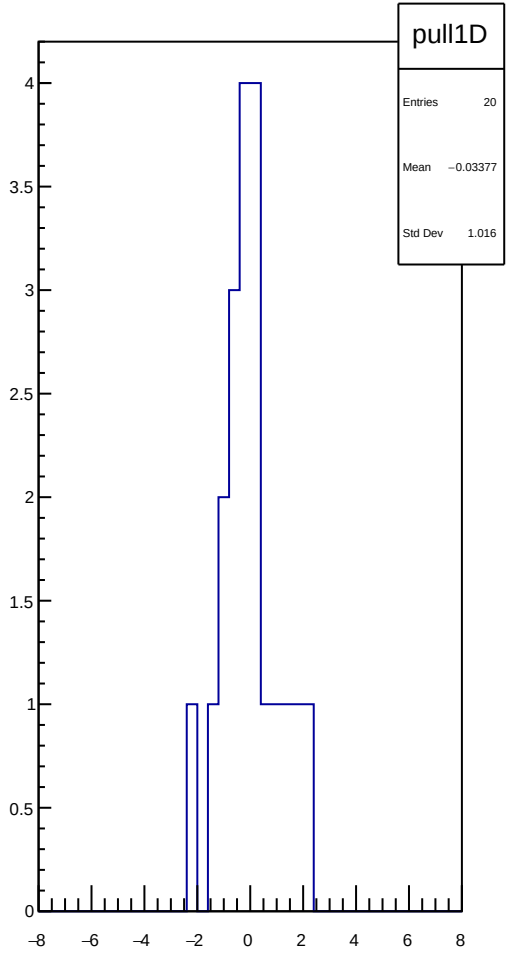

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 24.56 / 19
p0 1204 ± 1.892
1230
1220
1210
1200
1190
1180
1170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

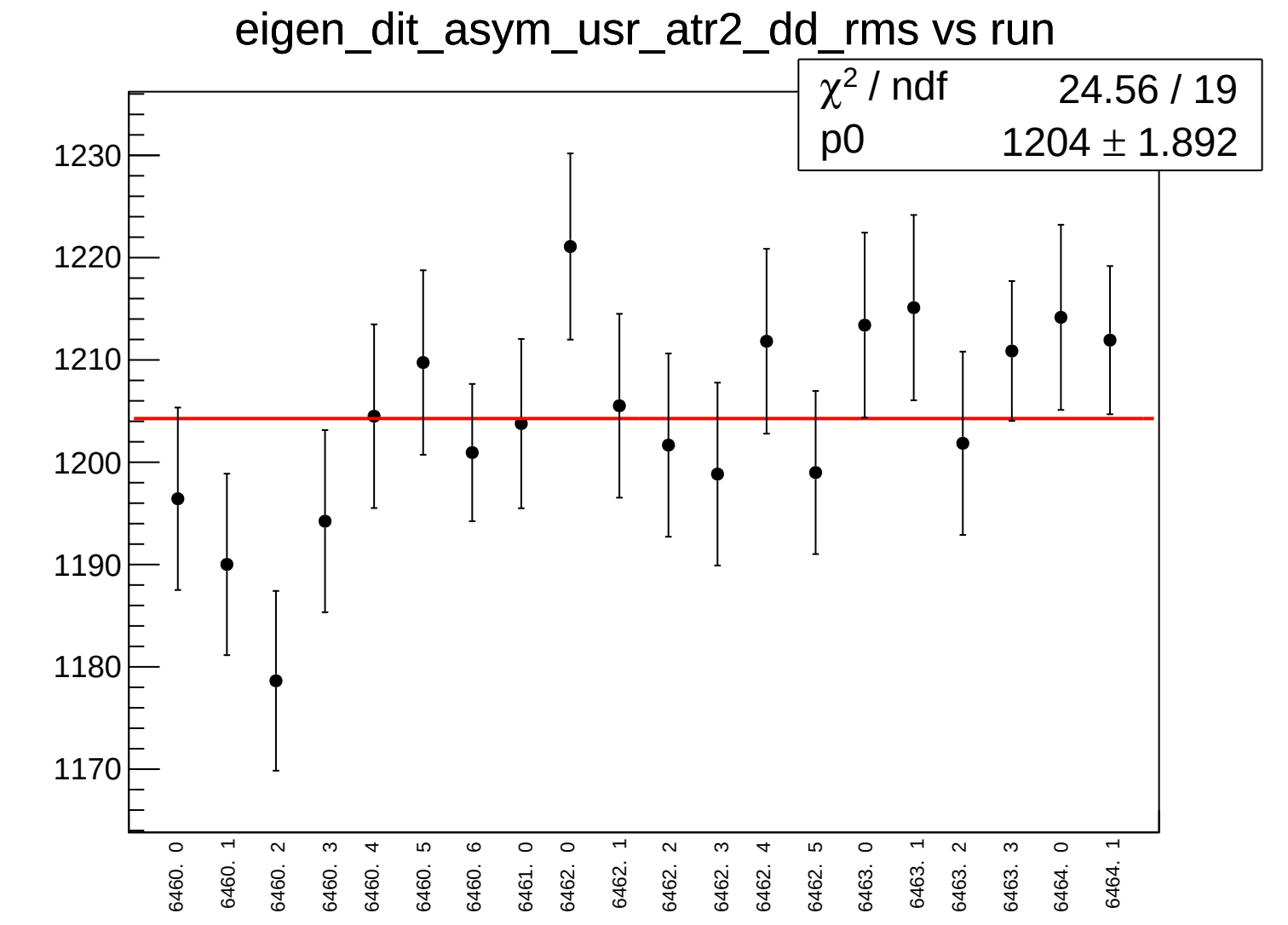

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 10.94 / 19
p0 −6376 ± 7232
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1

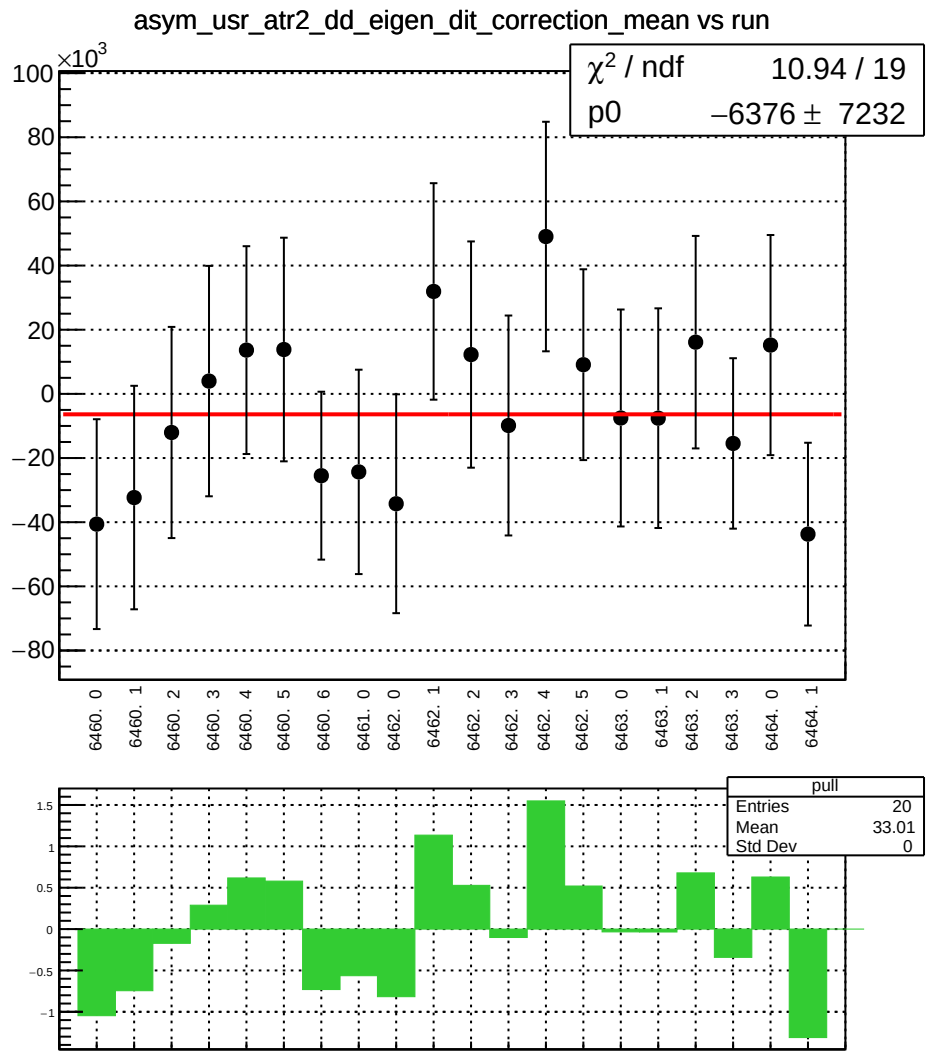

pull1D
Entries 20
Mean 0.03153
Std Dev 0.739
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

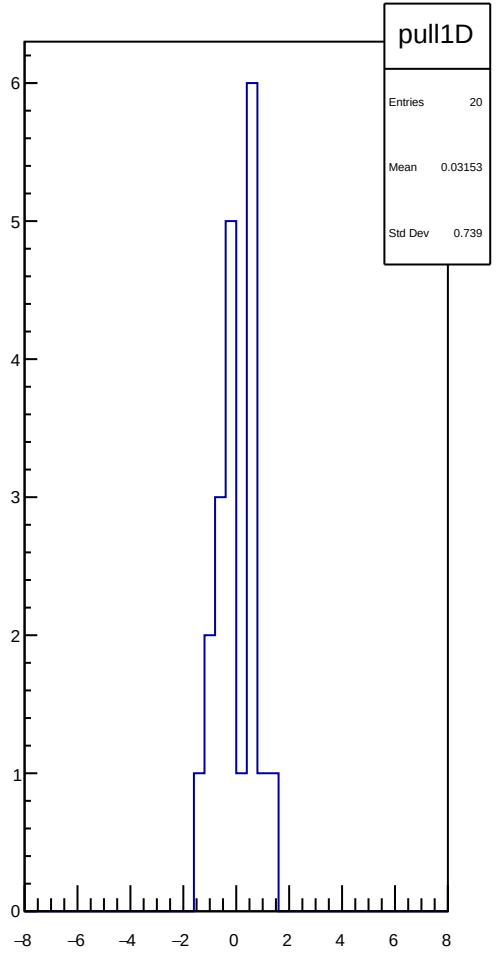

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 337 / 19
p0 3254 ± 5.114
3450
3400
3350
3300
3250
3200
3150
3100
3050
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

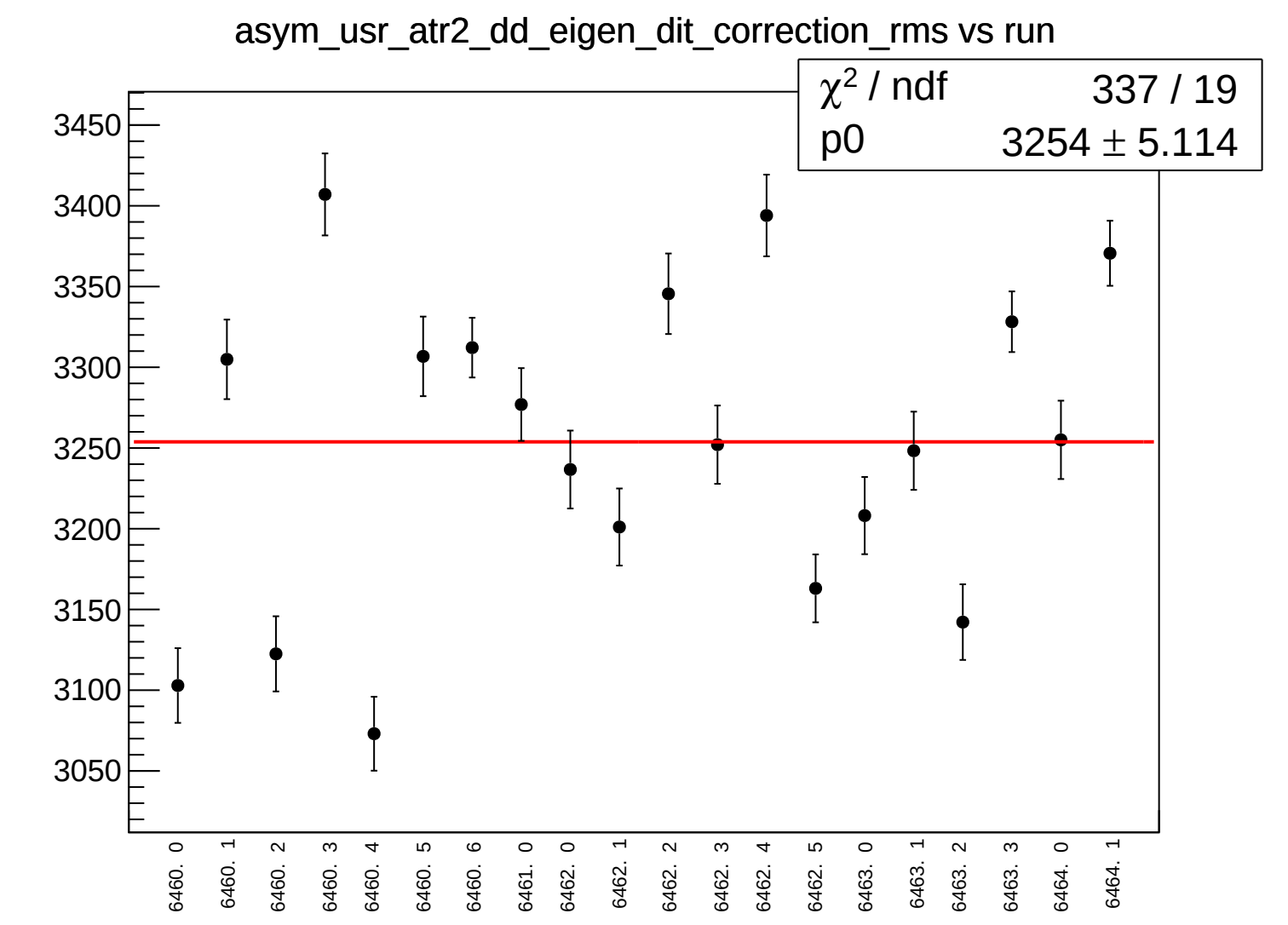

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 20.67 / 19
p0 −4001 ± 2676
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −55.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

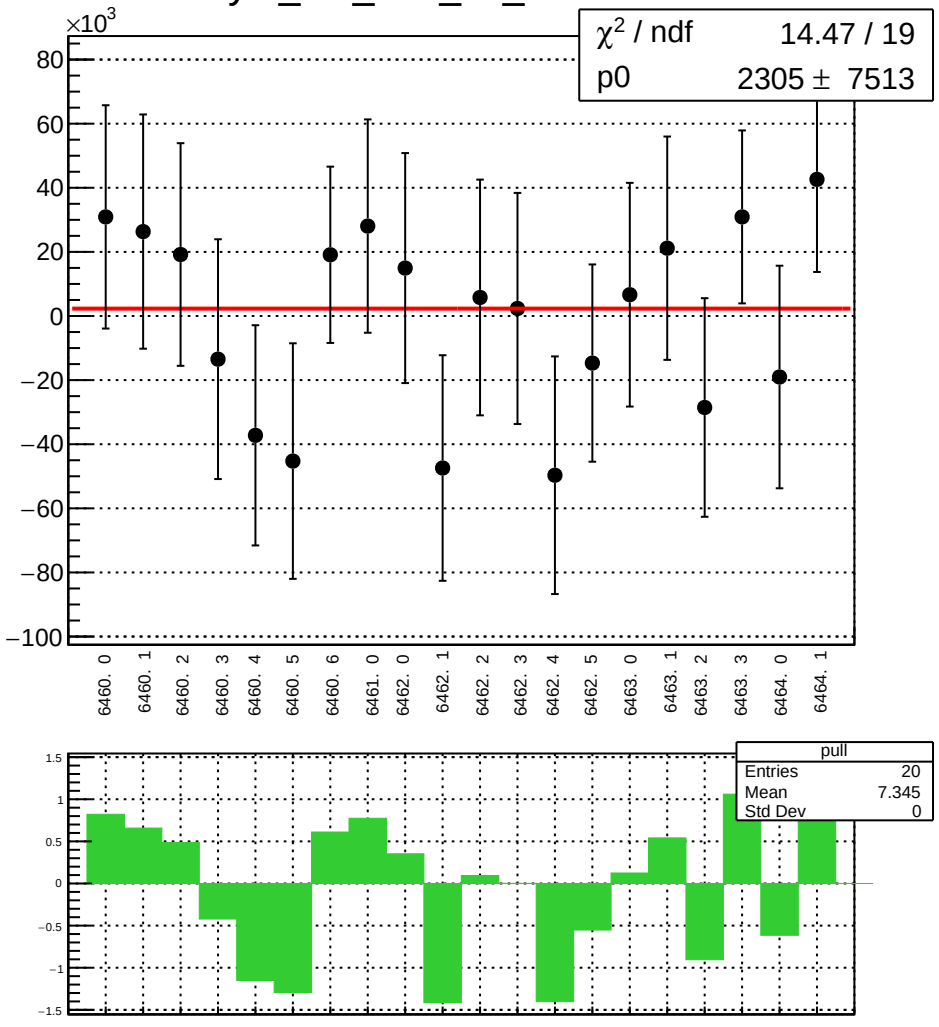

pull1D
Entries 20
Mean −0.03377
Std Dev 1.016
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

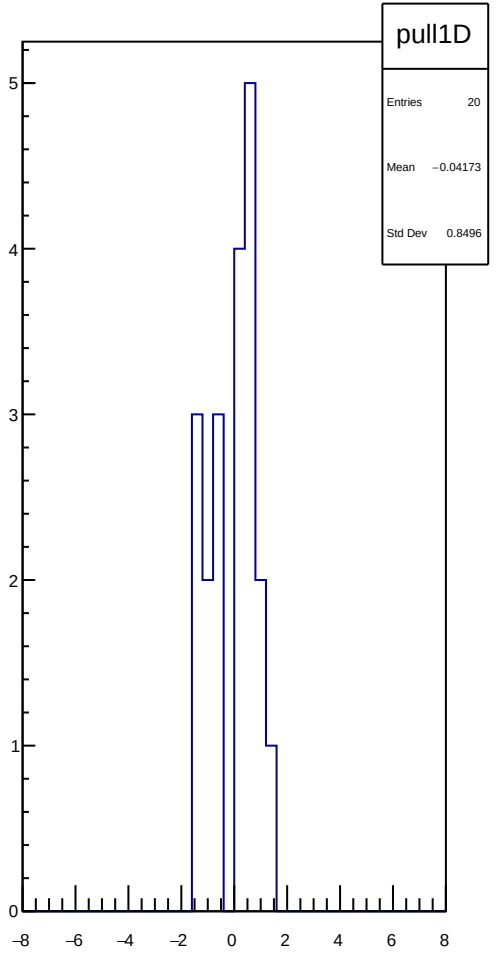

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 24.56 / 19
p0 1204 ± 1.892
1230
1220
1210
1200
1190
1180
1170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

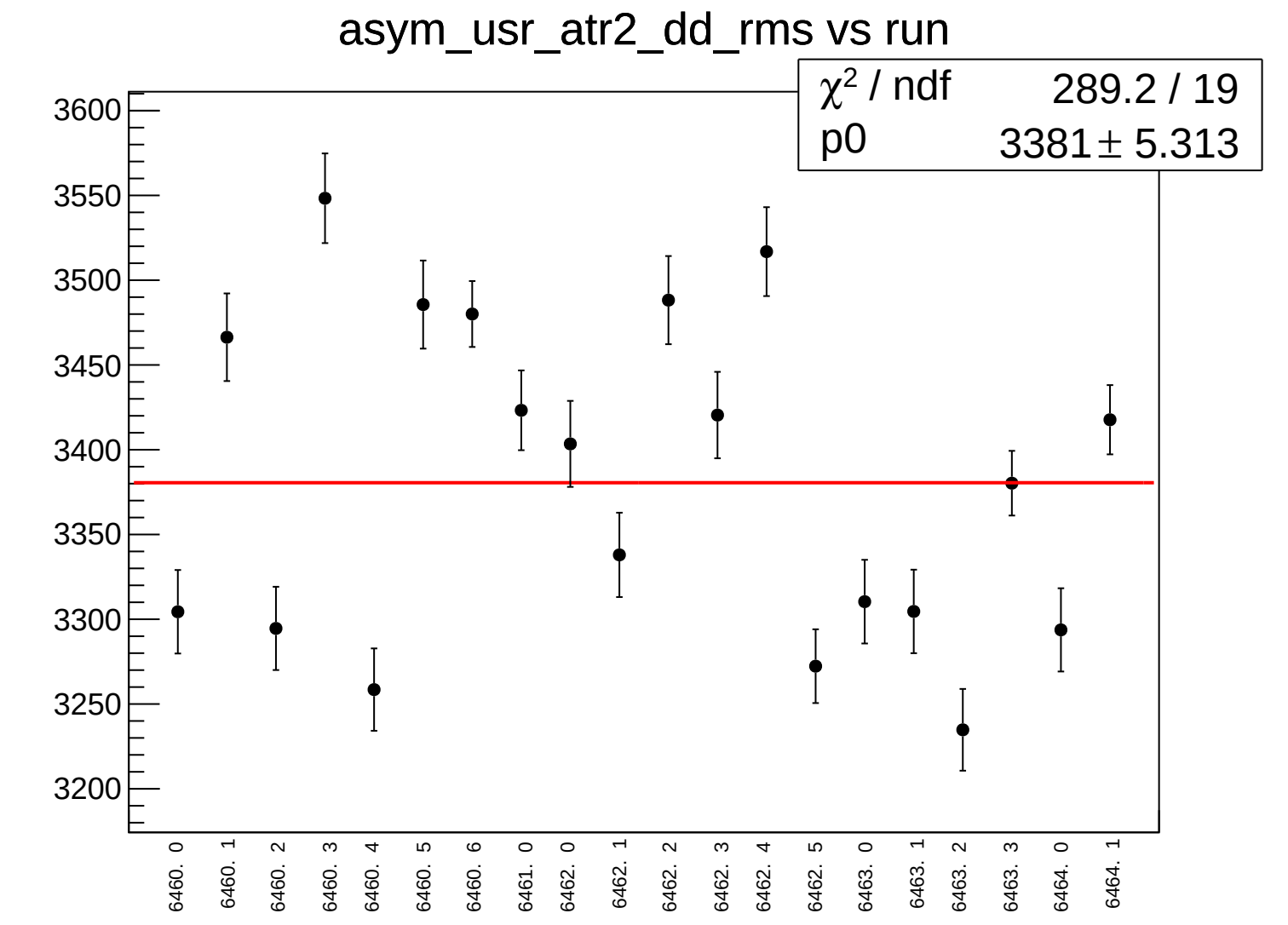

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 10.94 / 19
p0 −6376 ± 7232
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1

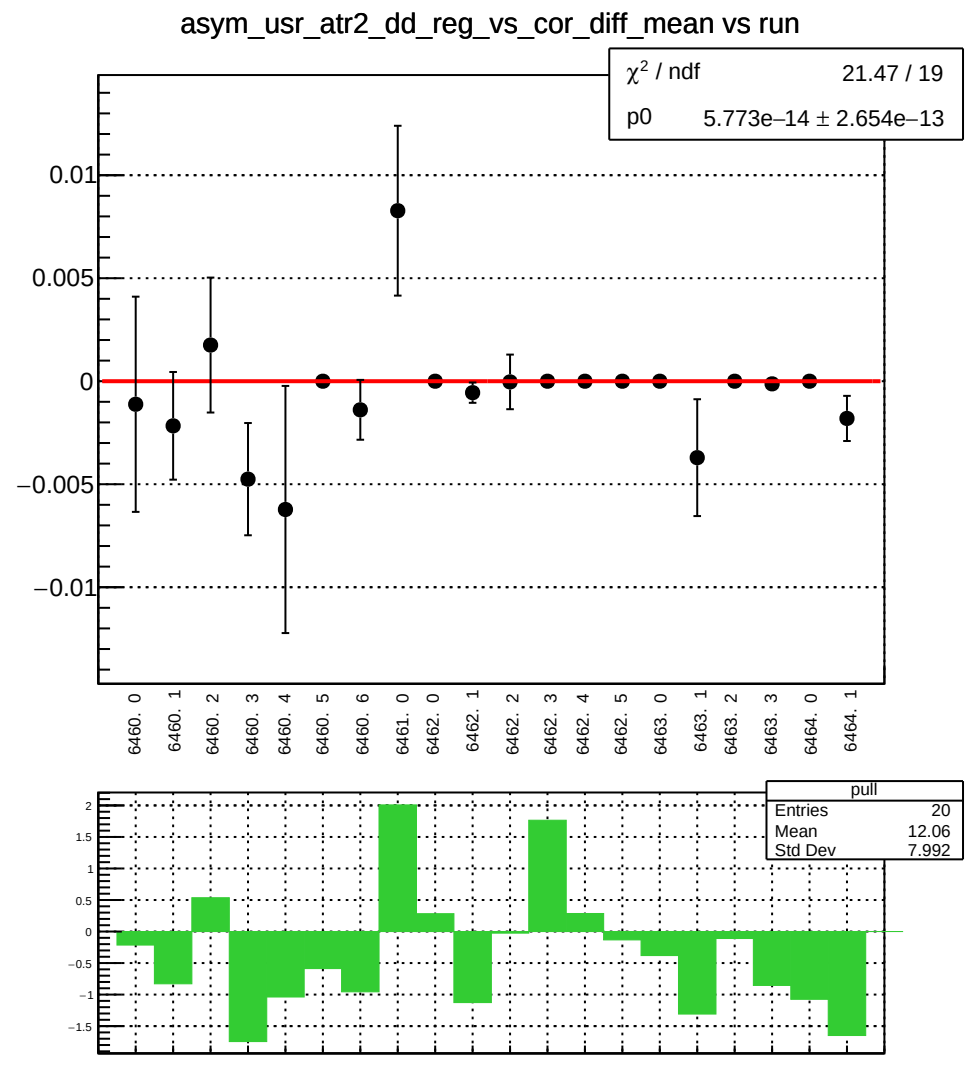

pull1D
Entries 20
Mean 0.03153
Std Dev 0.739
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

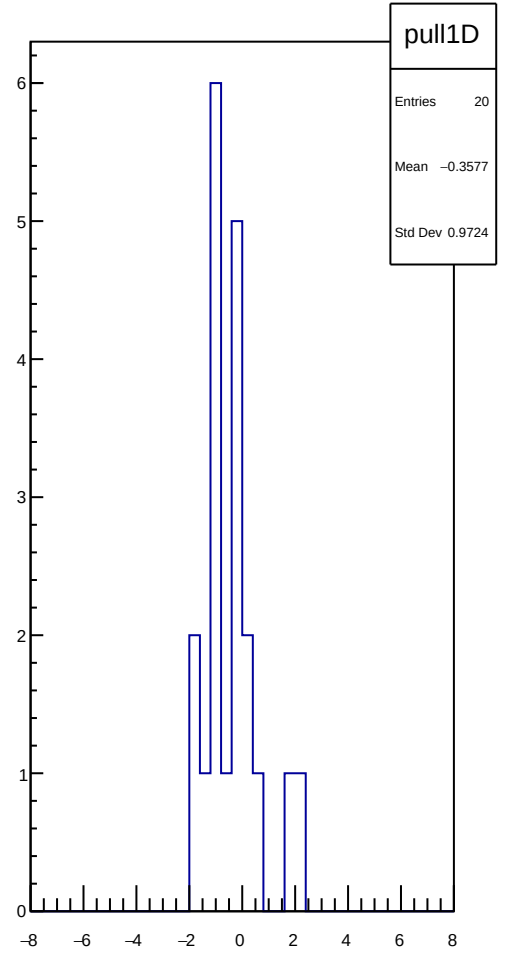

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 337 / 19
p0 3254 ± 5.114
3450
3400
3350
3300
3250
3200
3150
3100
3050
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

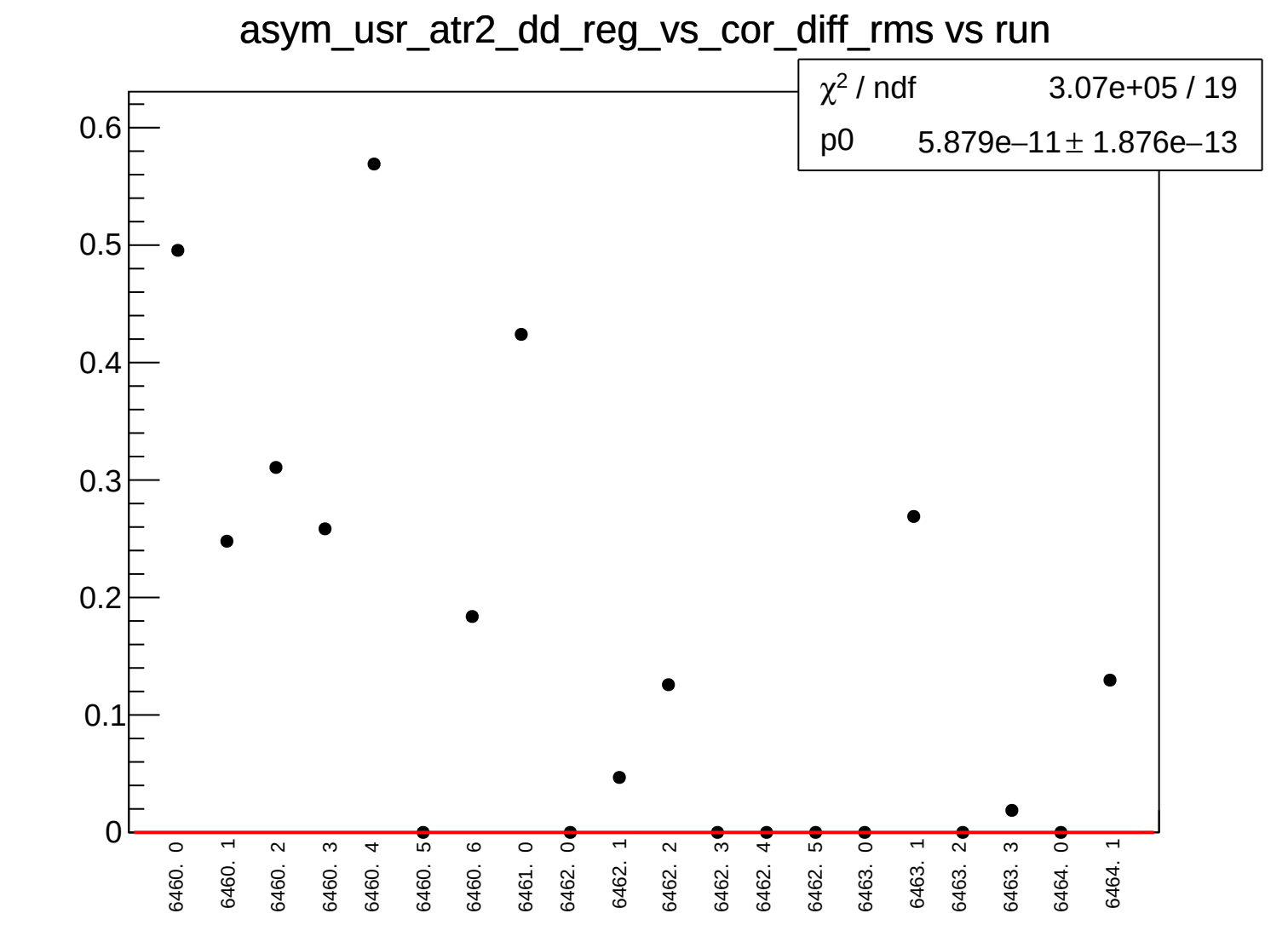

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 14.47 / 19
p0 2305 ± 7513
80
60
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.345
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

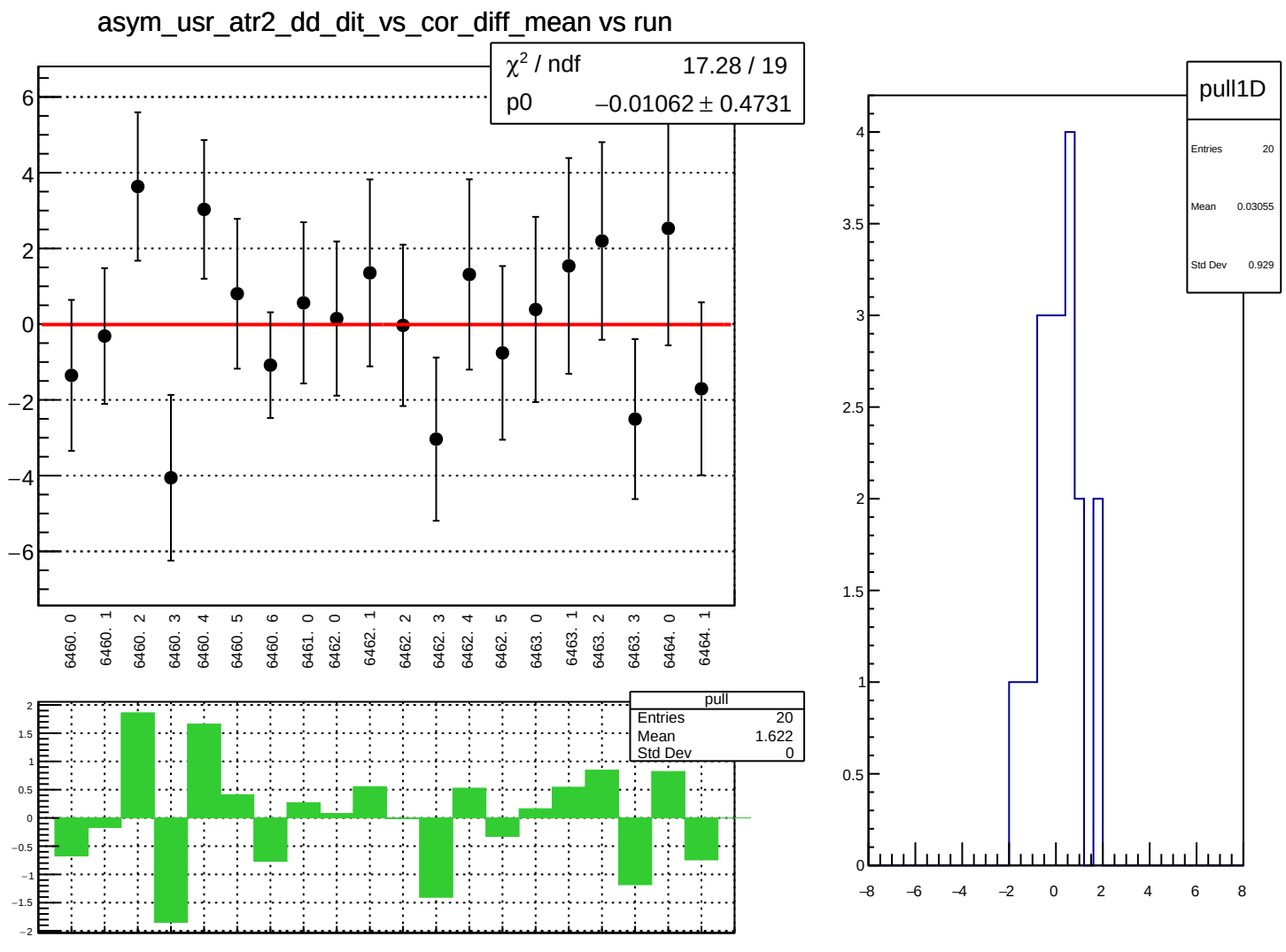

pull1D
Entries 20
Mean −0.04173
Std Dev 0.8496
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

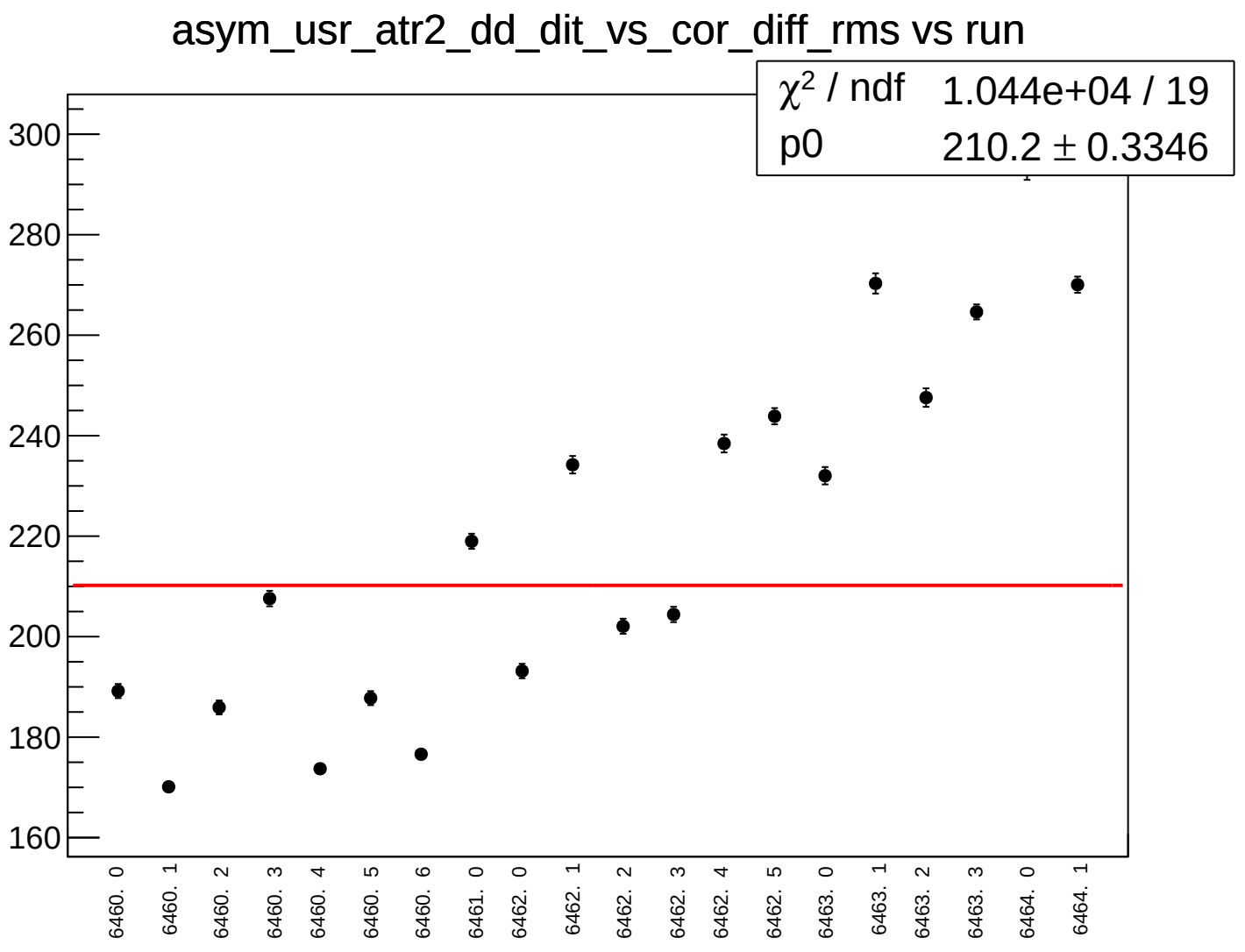

asym_usr_atr2_dd_rms vs run
χ² / ndf 289.2 / 19
p0 3381 ± 5.313
3600
3550
3500
3450
3400
3350
3300
3250
3200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

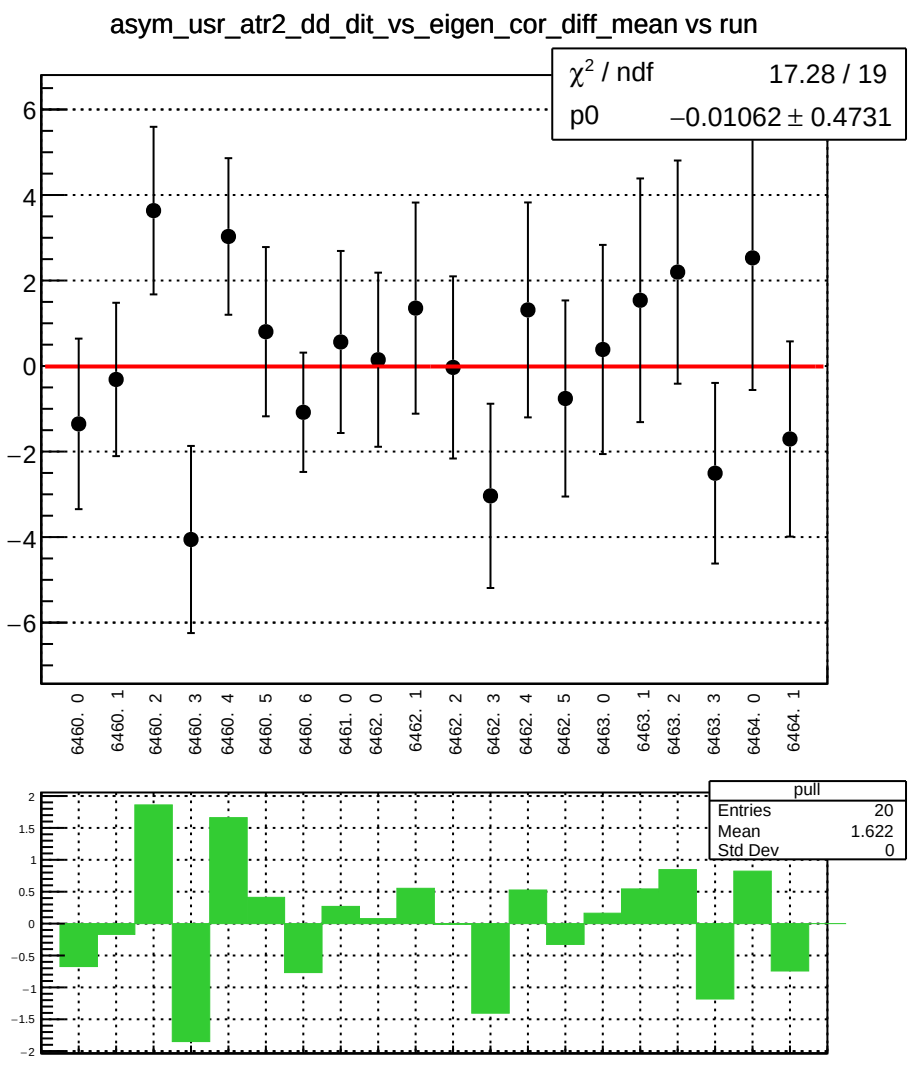

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.47 / 19
p0 5.773e−14 ± 2.654e−13
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.06
Std Dev 7.992
2
1.5
1
0.5
0
−0.5
−1
−1.5

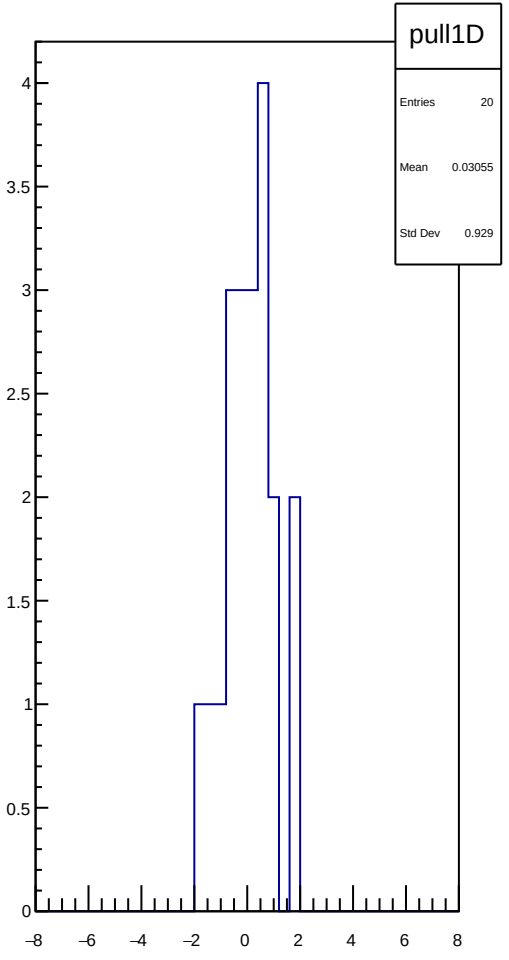

pull1D
Entries 20
Mean −0.3577
Std Dev 0.9724
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

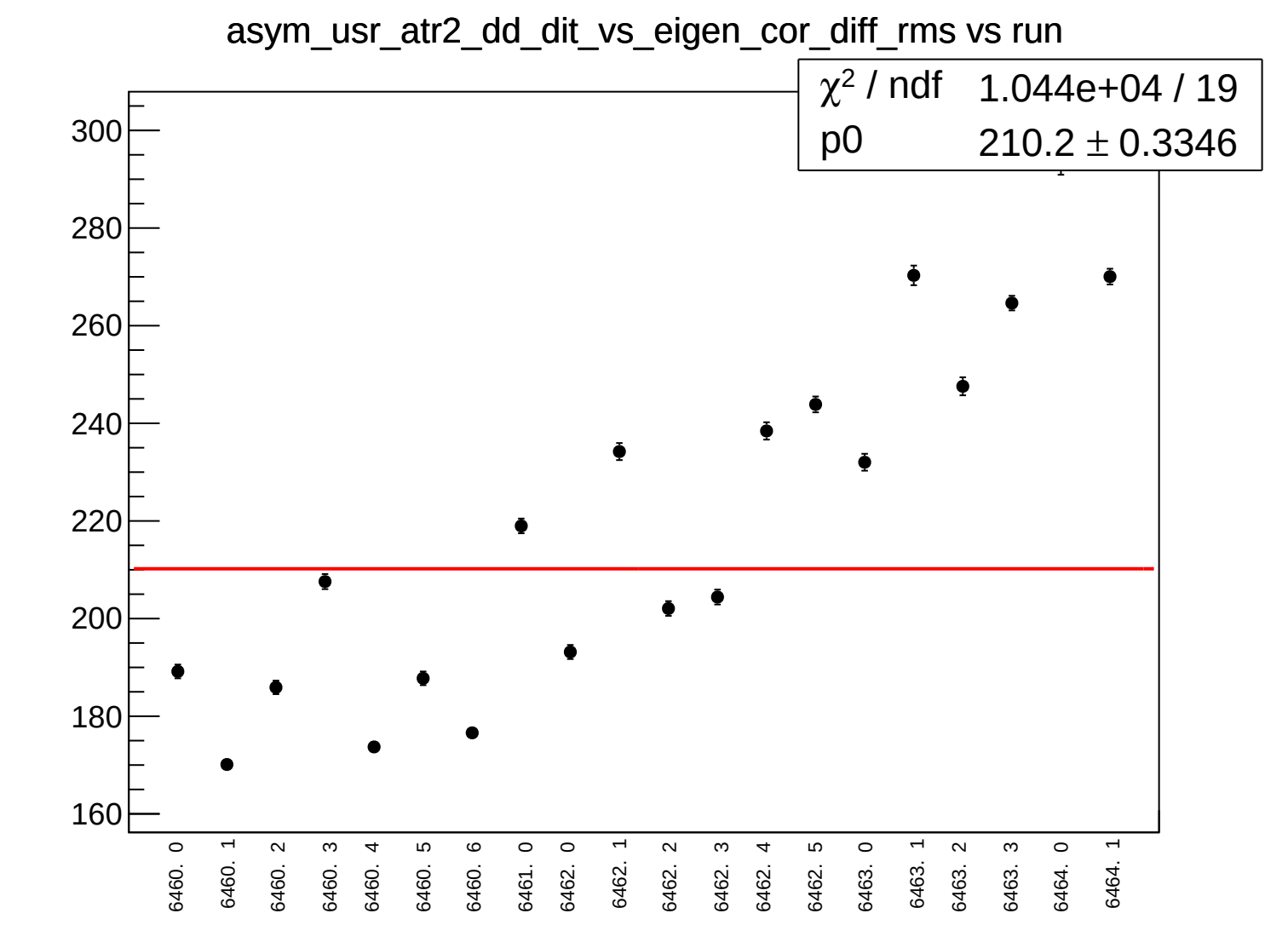

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.07e+05 / 19
p0 5.879e−11 ± 1.876e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

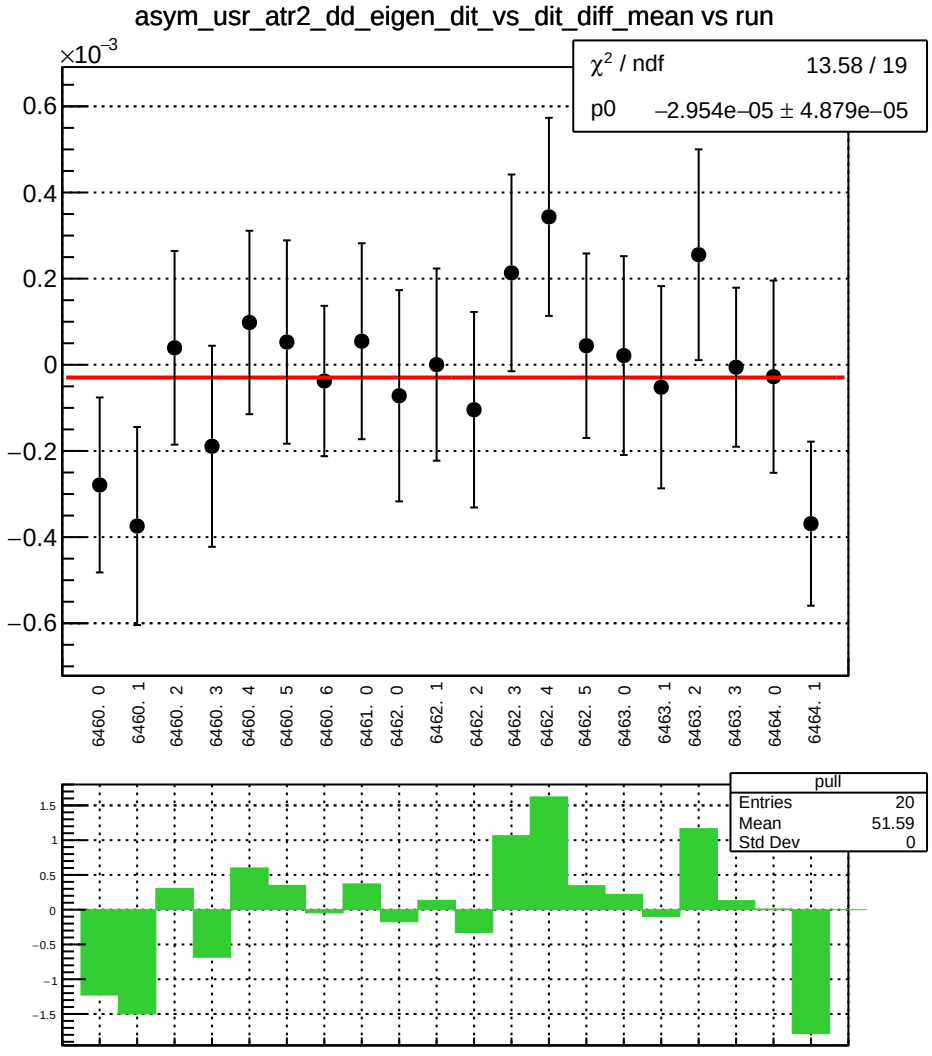

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 17.28 / 19
p0 −0.01062 ± 0.4731
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.622
Std Dev 0
pull1D
Entries 20
Mean 0.03055
Std Dev 0.929

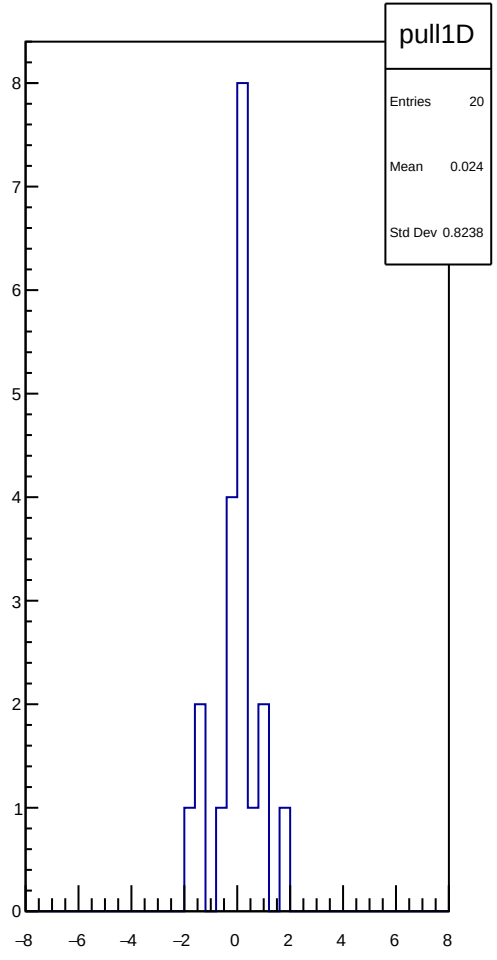

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.044e+04 / 19
p0 210.2 ± 0.3346
300
280
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

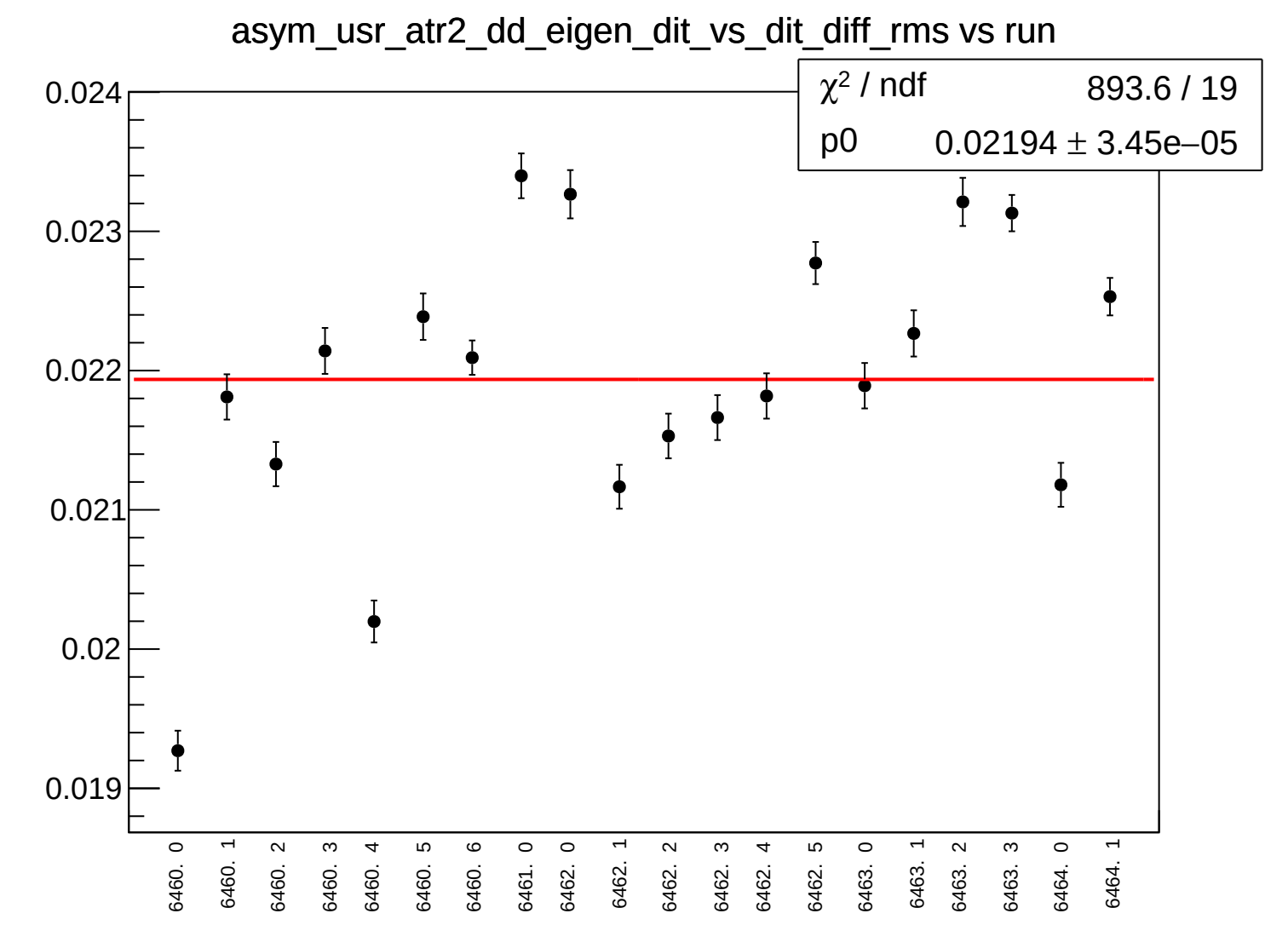

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.28 / 19
p0 −0.01062 ± 0.4731
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.622
Std Dev 0

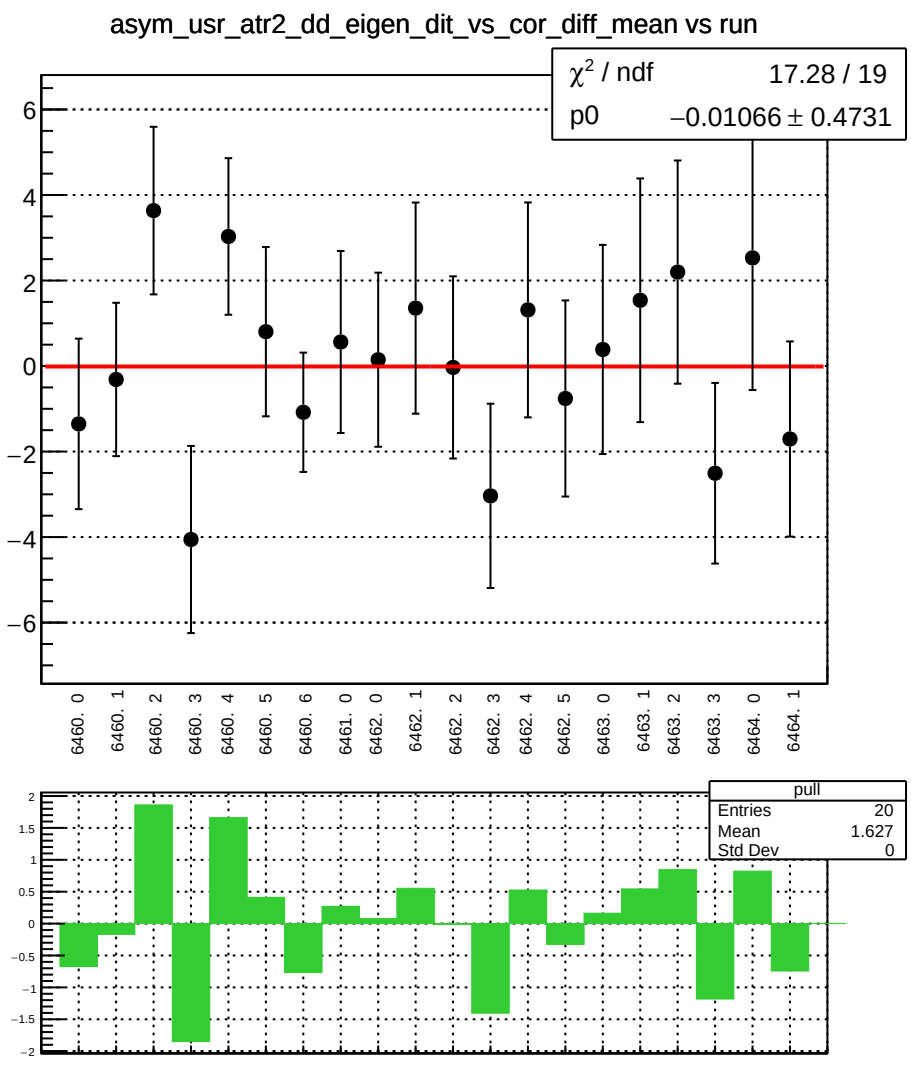

pull1D
Entries 20
Mean 0.03055
Std Dev 0.929

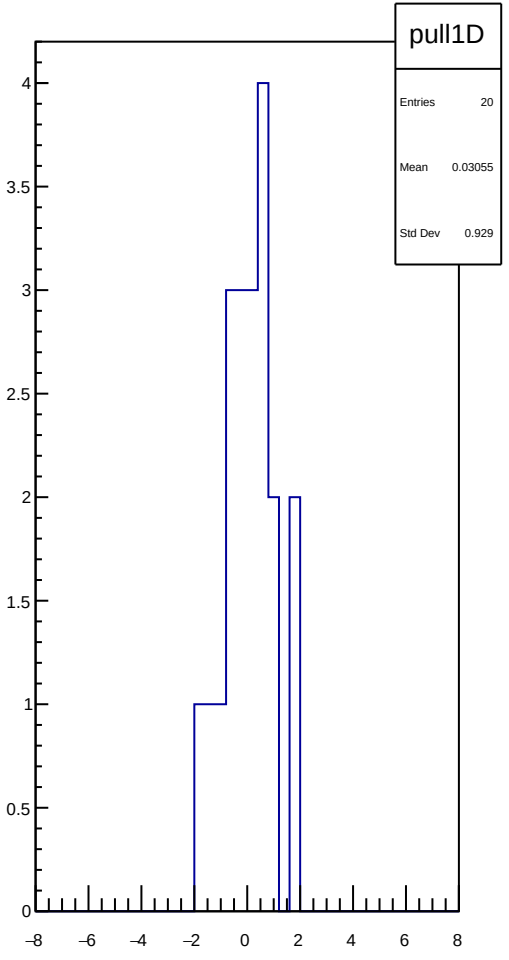

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.044e+04 / 19
p0 210.2 ± 0.3346
300
280
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

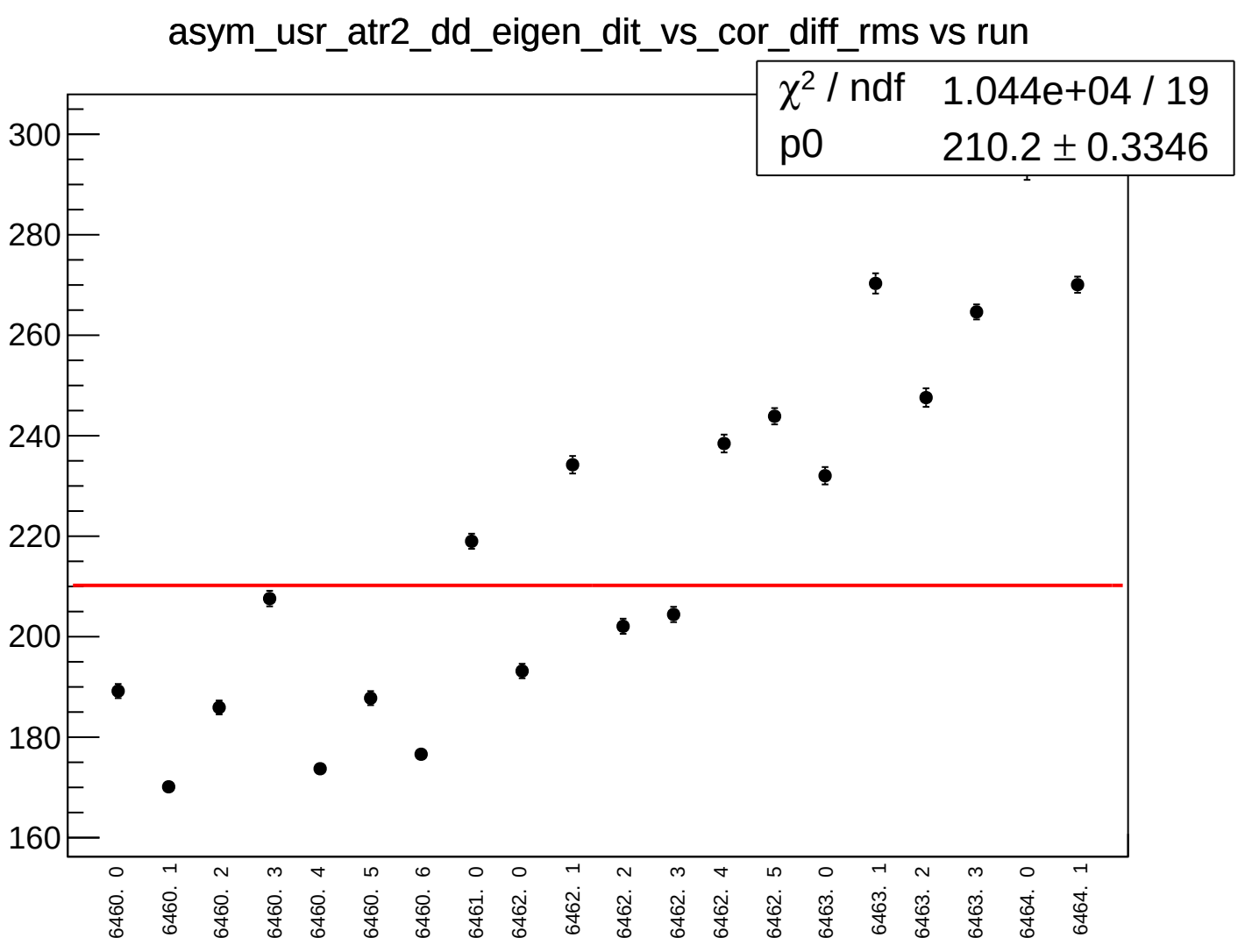

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 13.58 / 19
p0 −2.954e−05 ± 4.879e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 51.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

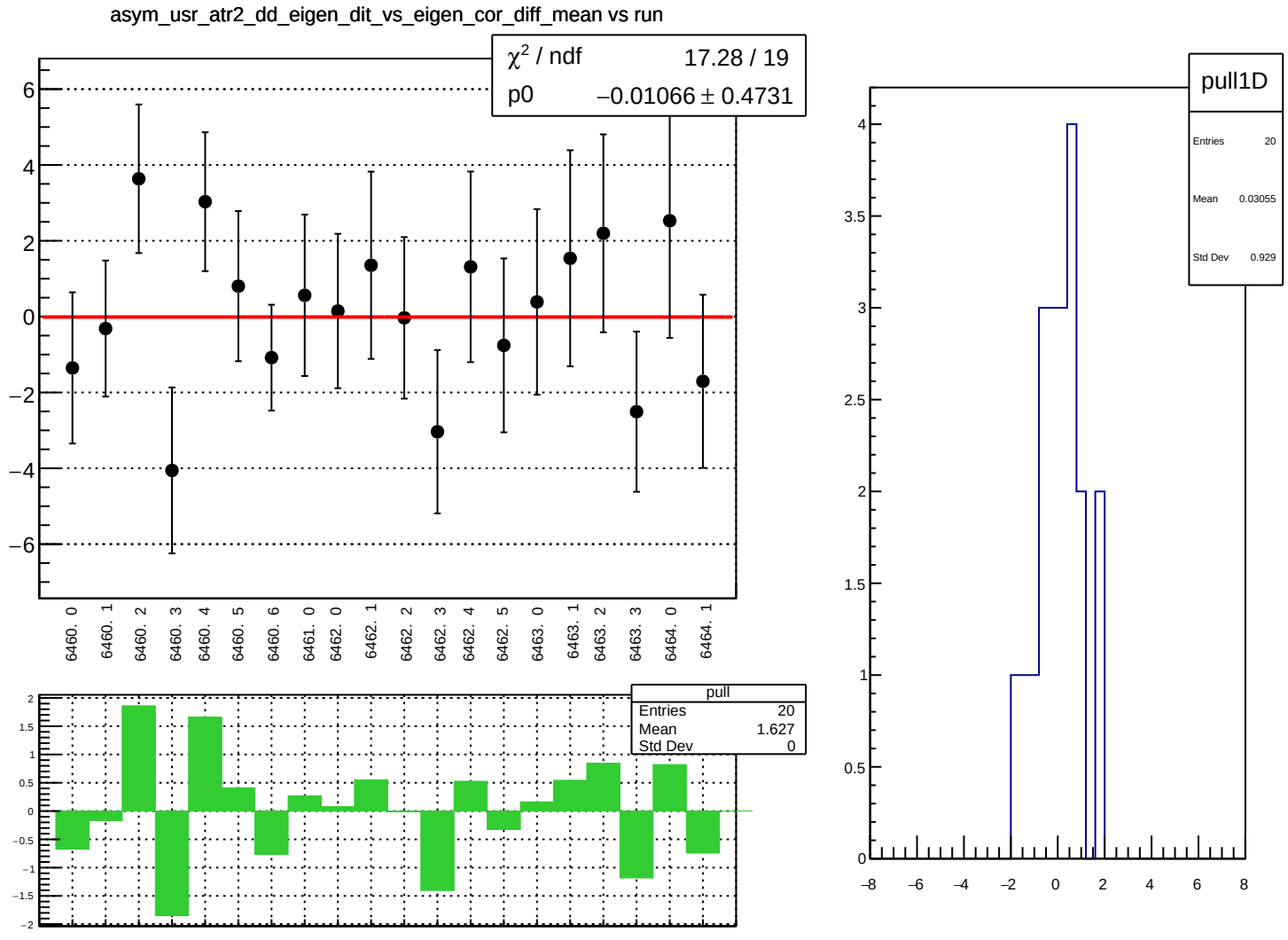

pull1D
Entries 20
Mean 0.024
Std Dev 0.8238
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

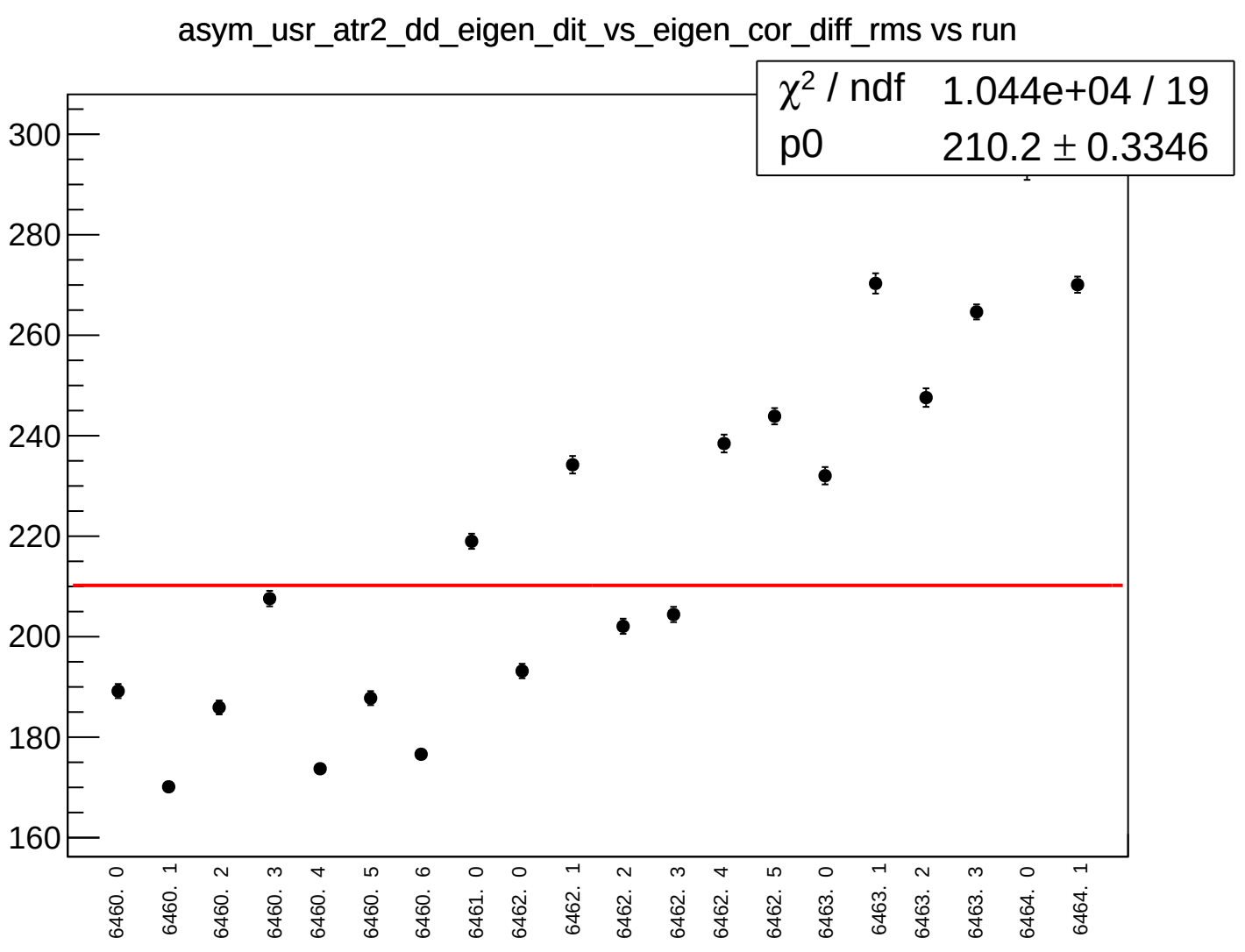

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 893.6 / 19
p0 0.02194 ± 3.45e−05
0.024
0.023
0.022
0.021
0.02
0.019
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

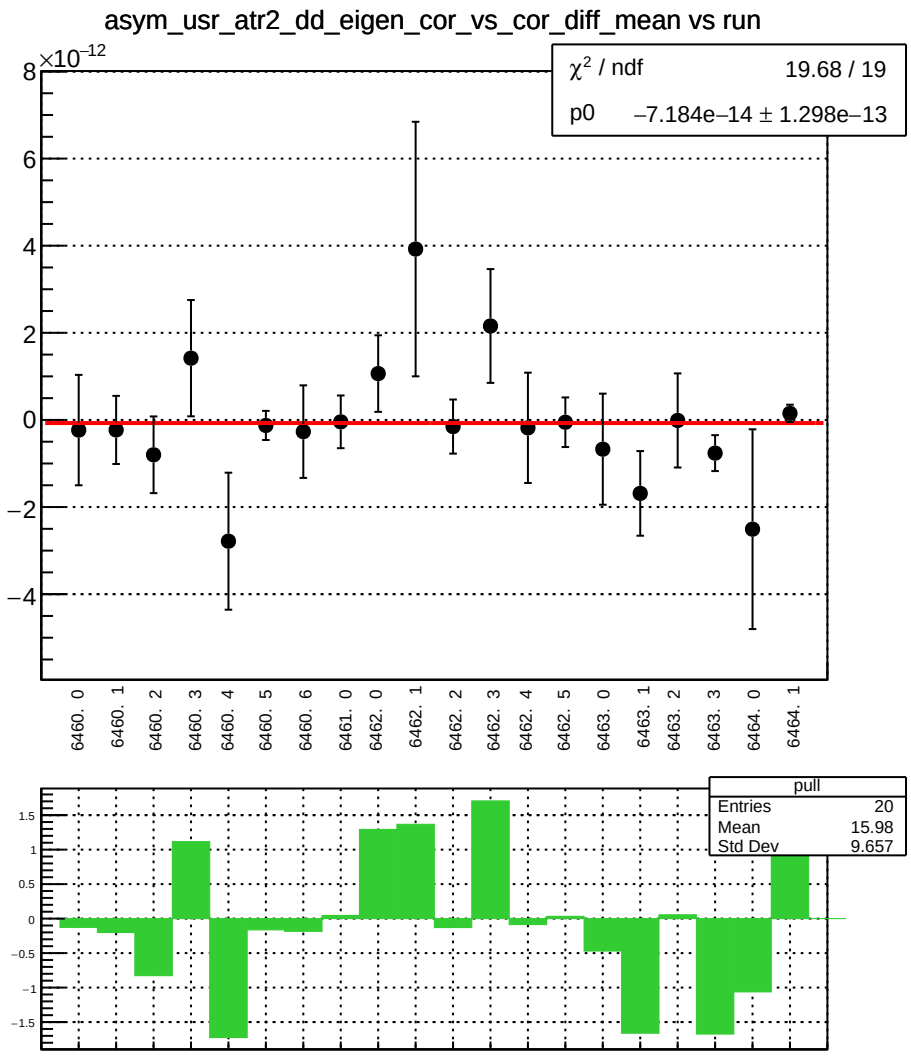

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.28 / 19
p0 −0.01066 ± 0.4731
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.627
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

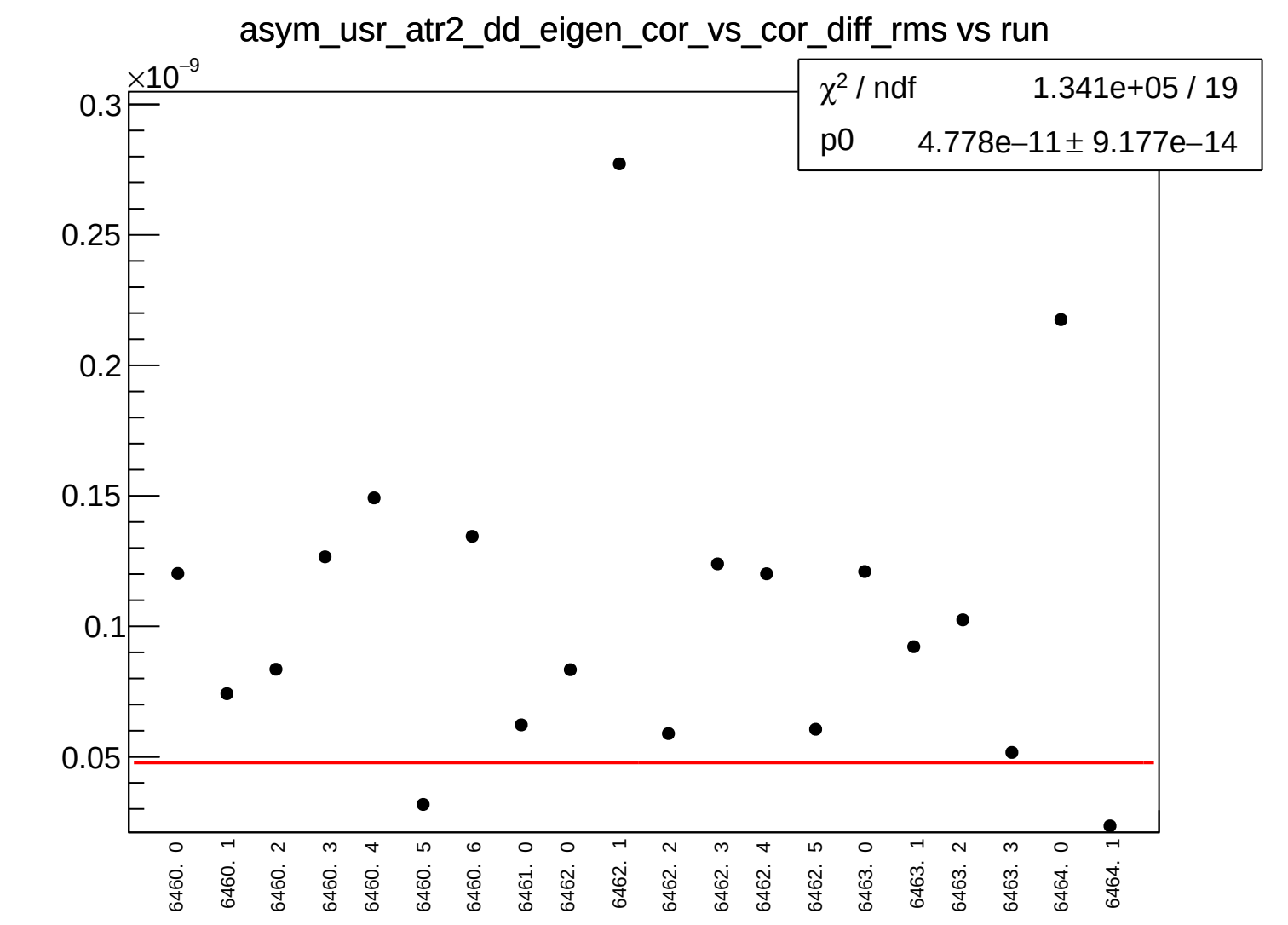

pull1D
Entries 20
Mean 0.03055
Std Dev 0.929
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

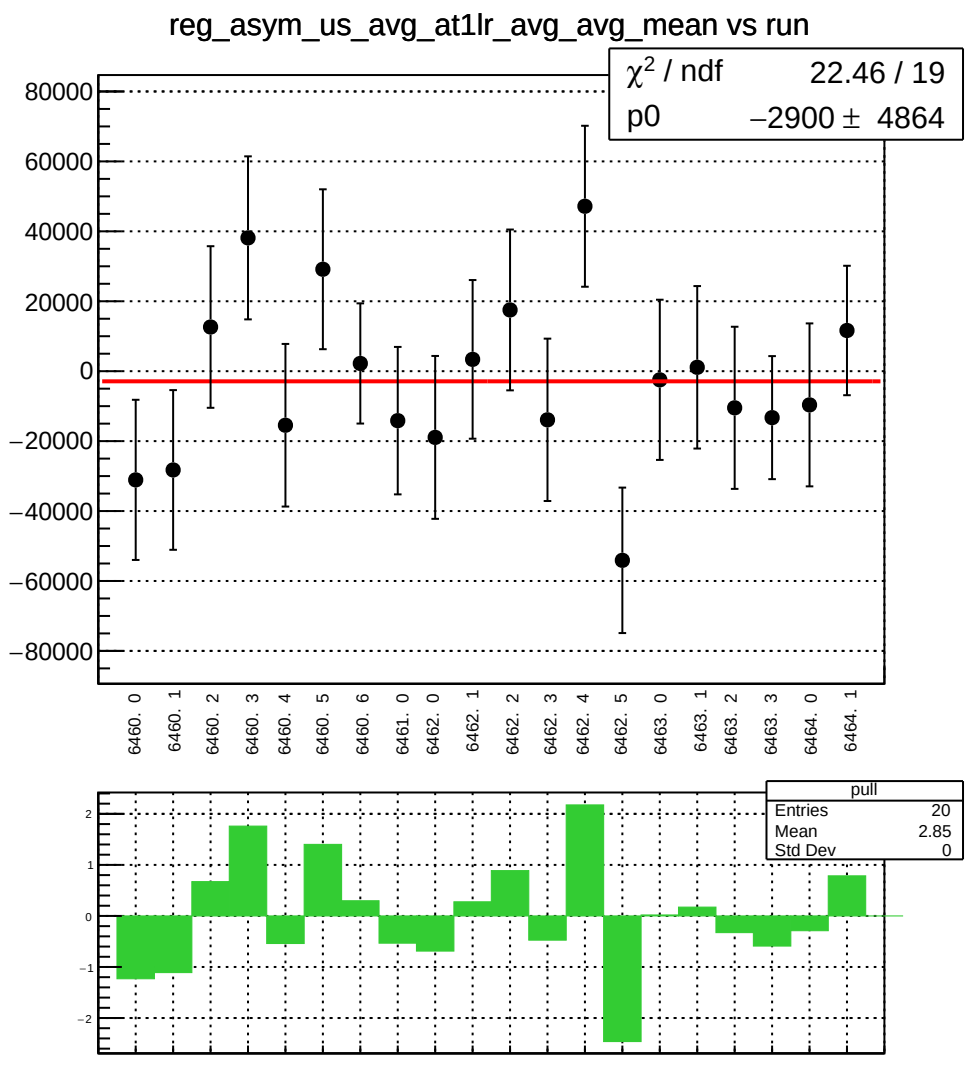

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.044e+04 / 19
p0 210.2 ± 0.3346
300
280
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

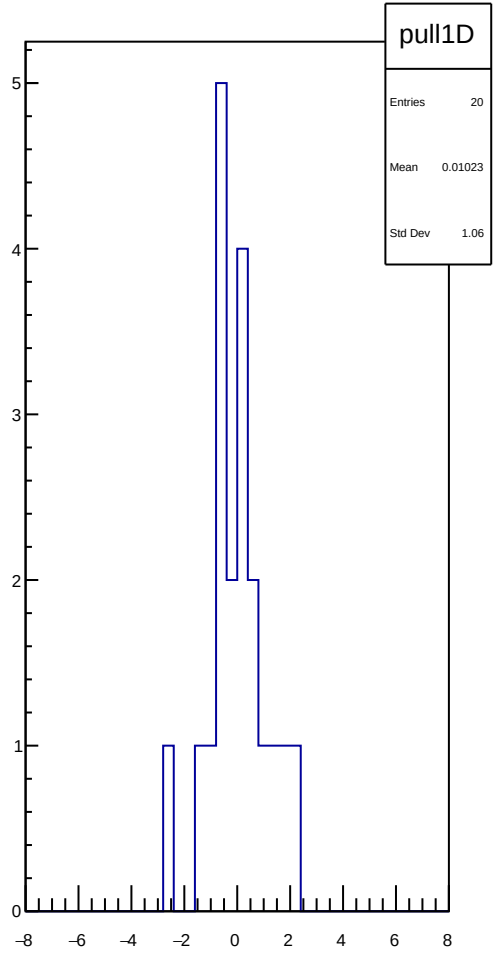

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.28 / 19
p0 −0.01066 ± 0.4731
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.627
Std Dev 0
pull1D
Entries 20
Mean 0.03055
Std Dev 0.929

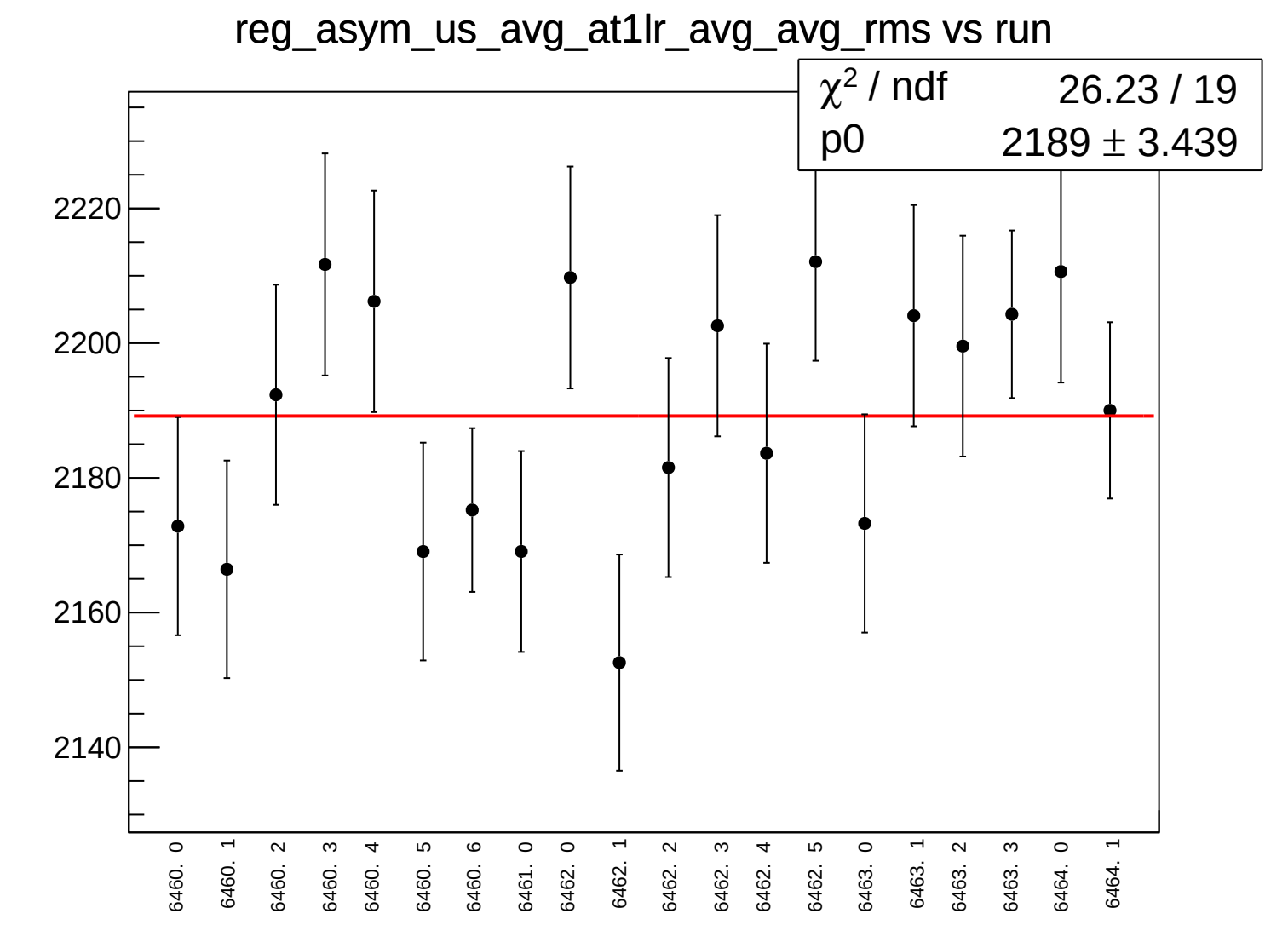

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.044e+04 / 19
p0 210.2 ± 0.3346
300
280
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

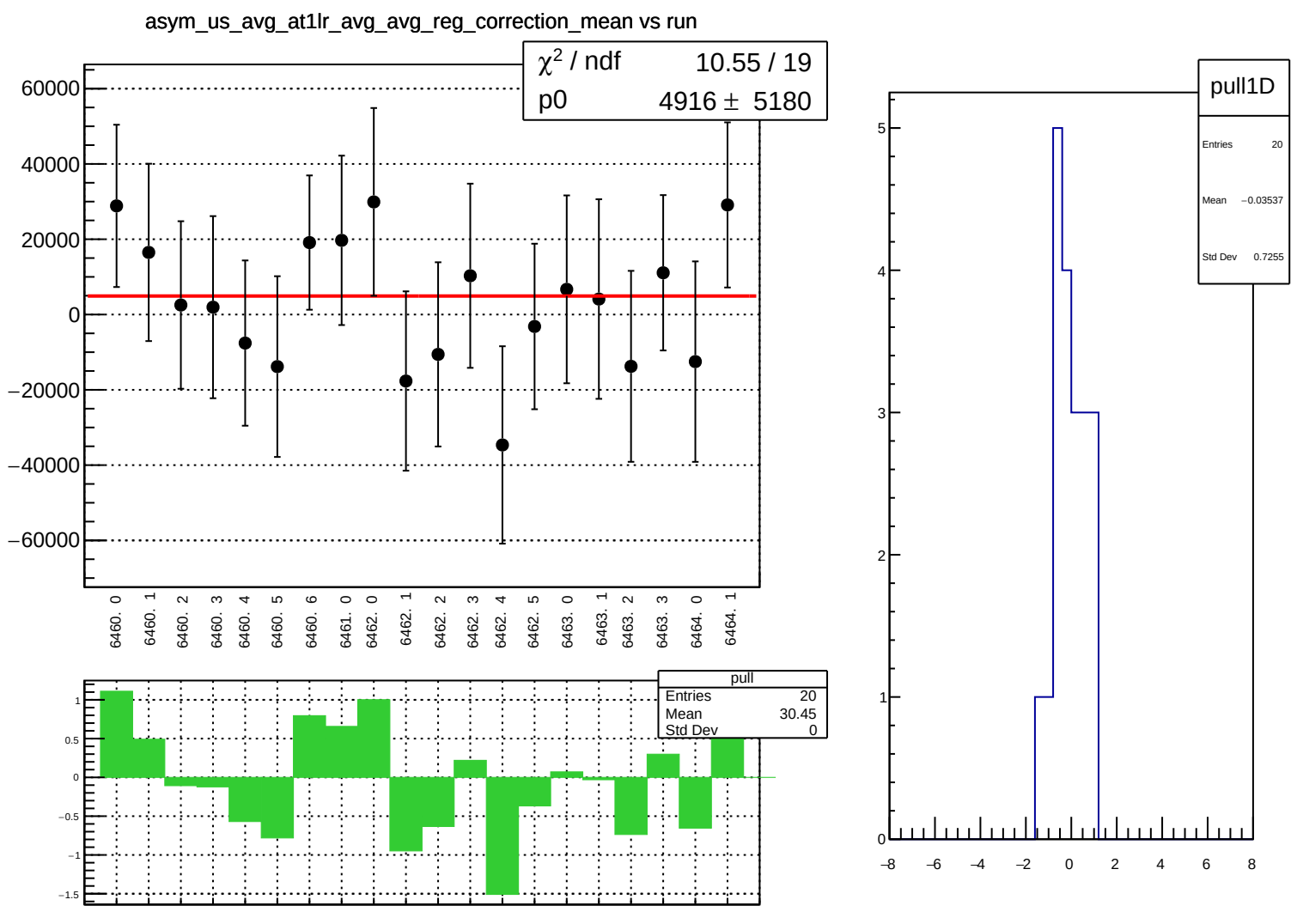

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.68 / 19
p0 −7.184e−14 ± 1.298e−13
8
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.98
Std Dev 9.657
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.07862
Std Dev 0.9889
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

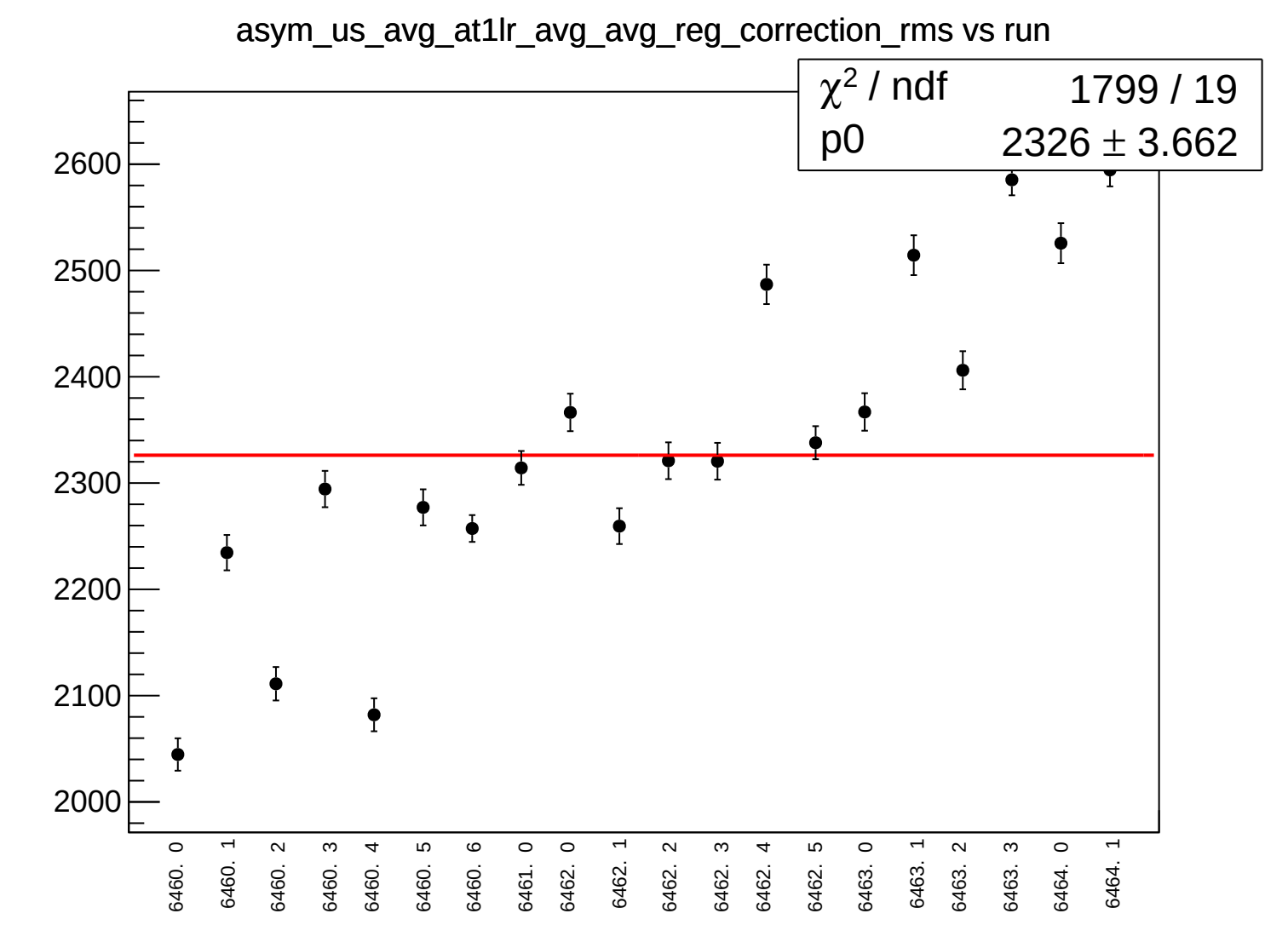

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.341e+05 / 19
p0 4.778e−11 ± 9.177e−14
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

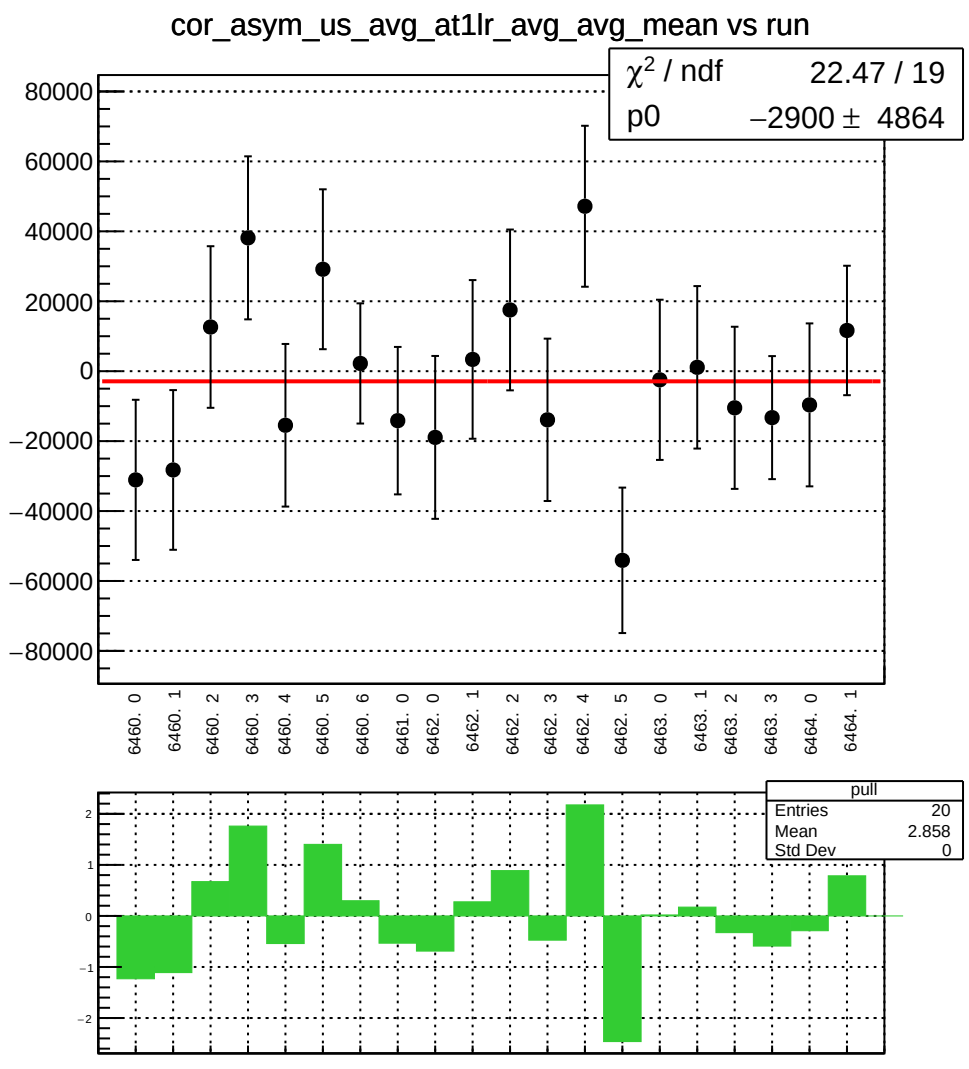

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 22.46 / 19
p0 −2900 ± 4864
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.85
Std Dev 0
2
1
0
−1
−2

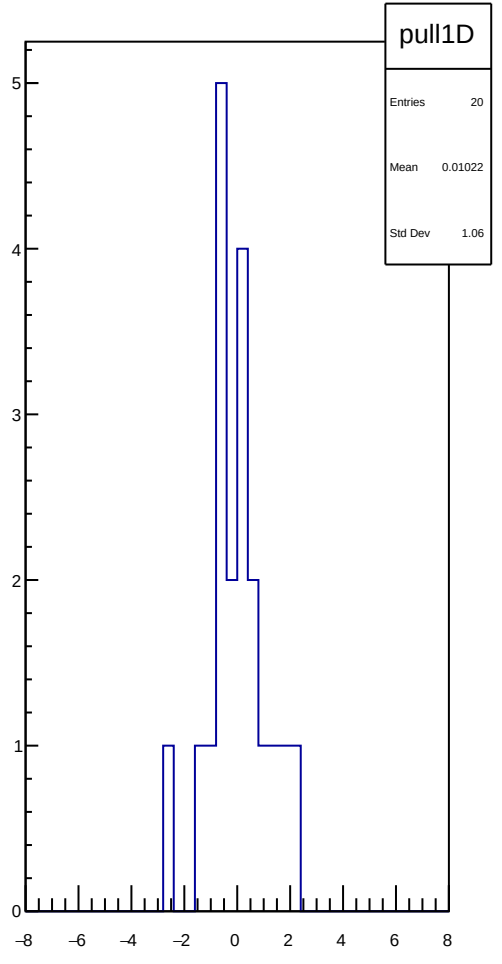

pull1D
Entries 20
Mean 0.01023
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

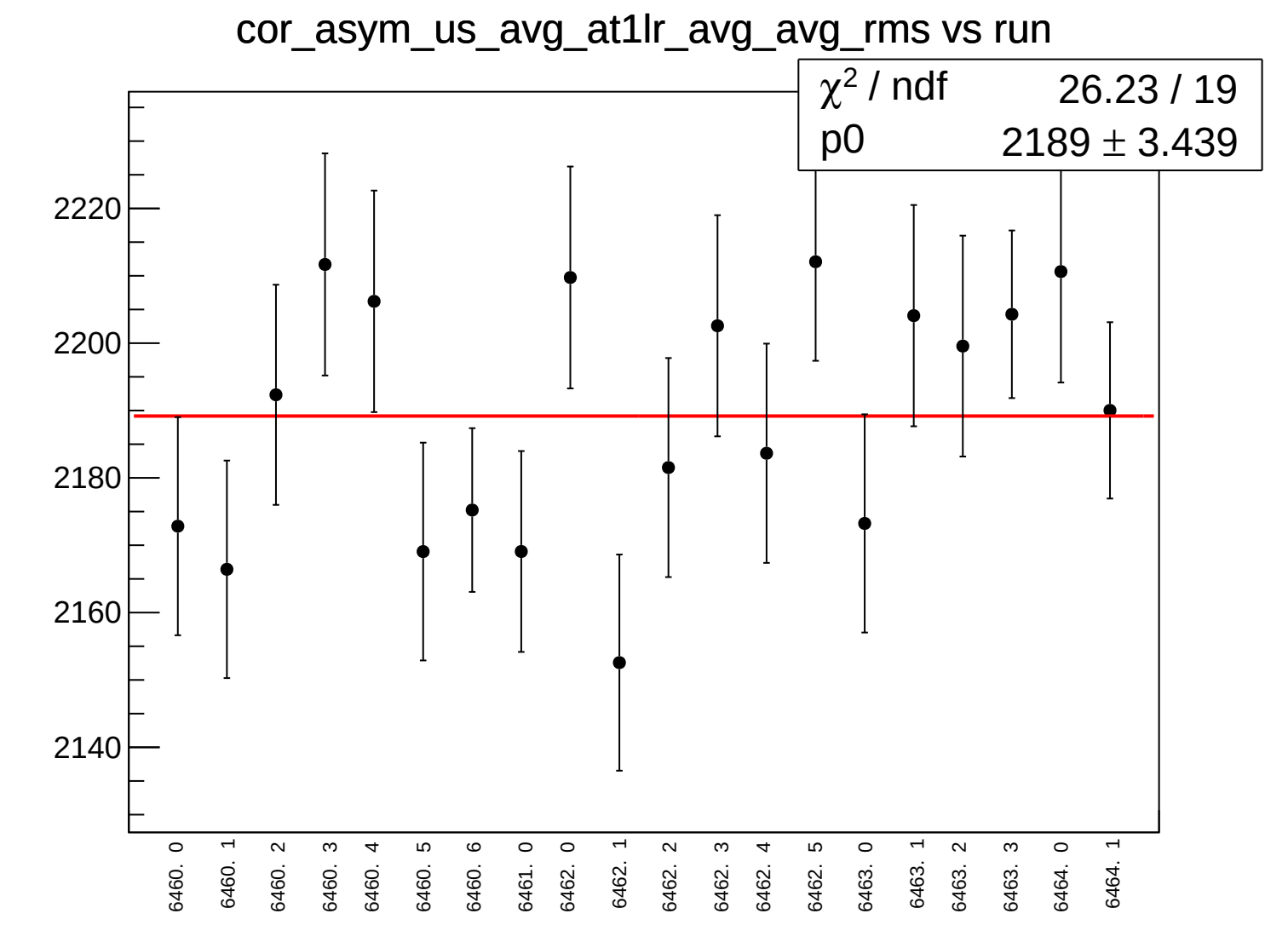

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 26.23 / 19
p0 2189 ± 3.439
2220
2200
2180
2160
2140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

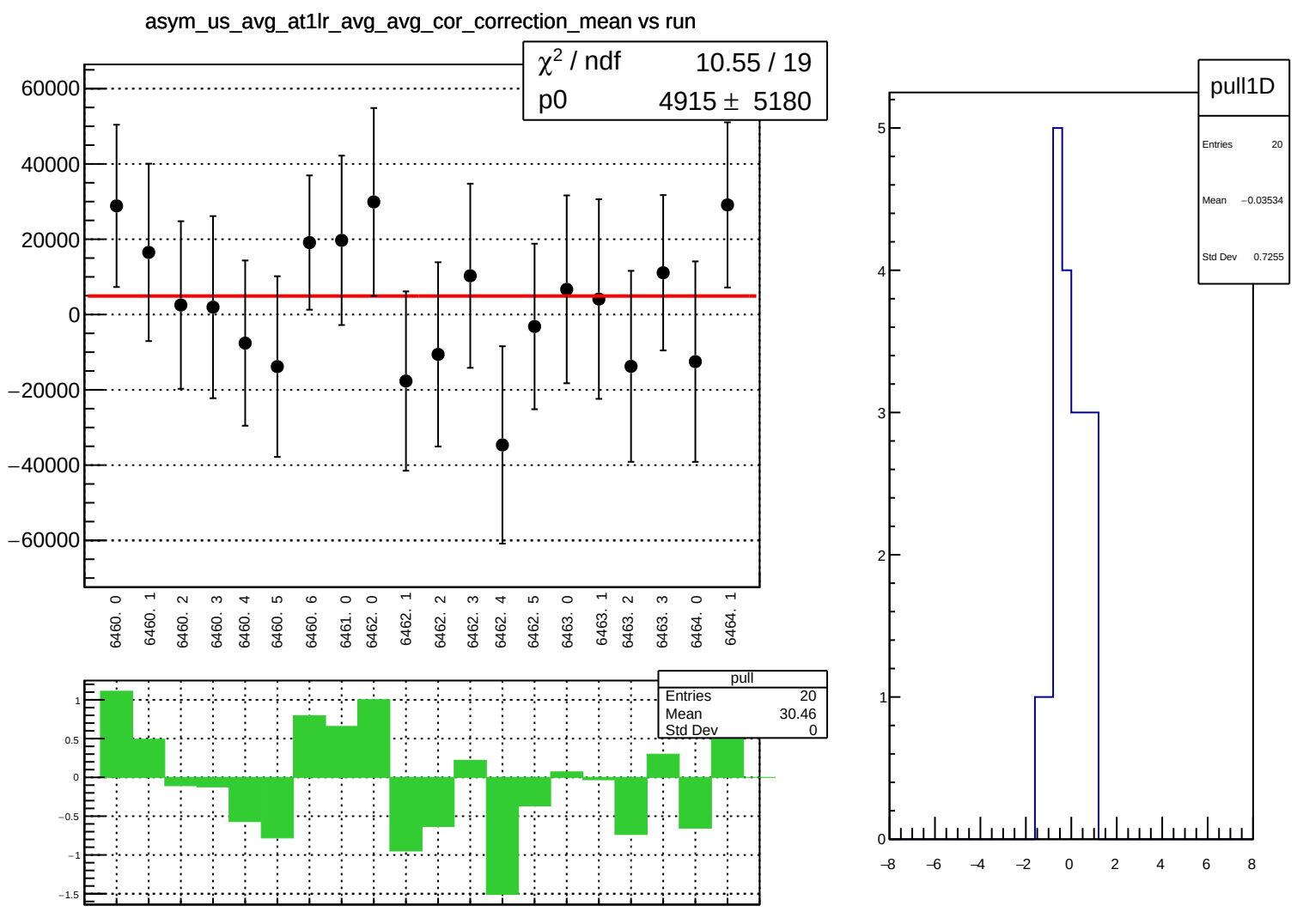

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 10.55 / 19
p0 4916 ± 5180
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.45
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03537
Std Dev 0.7255
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

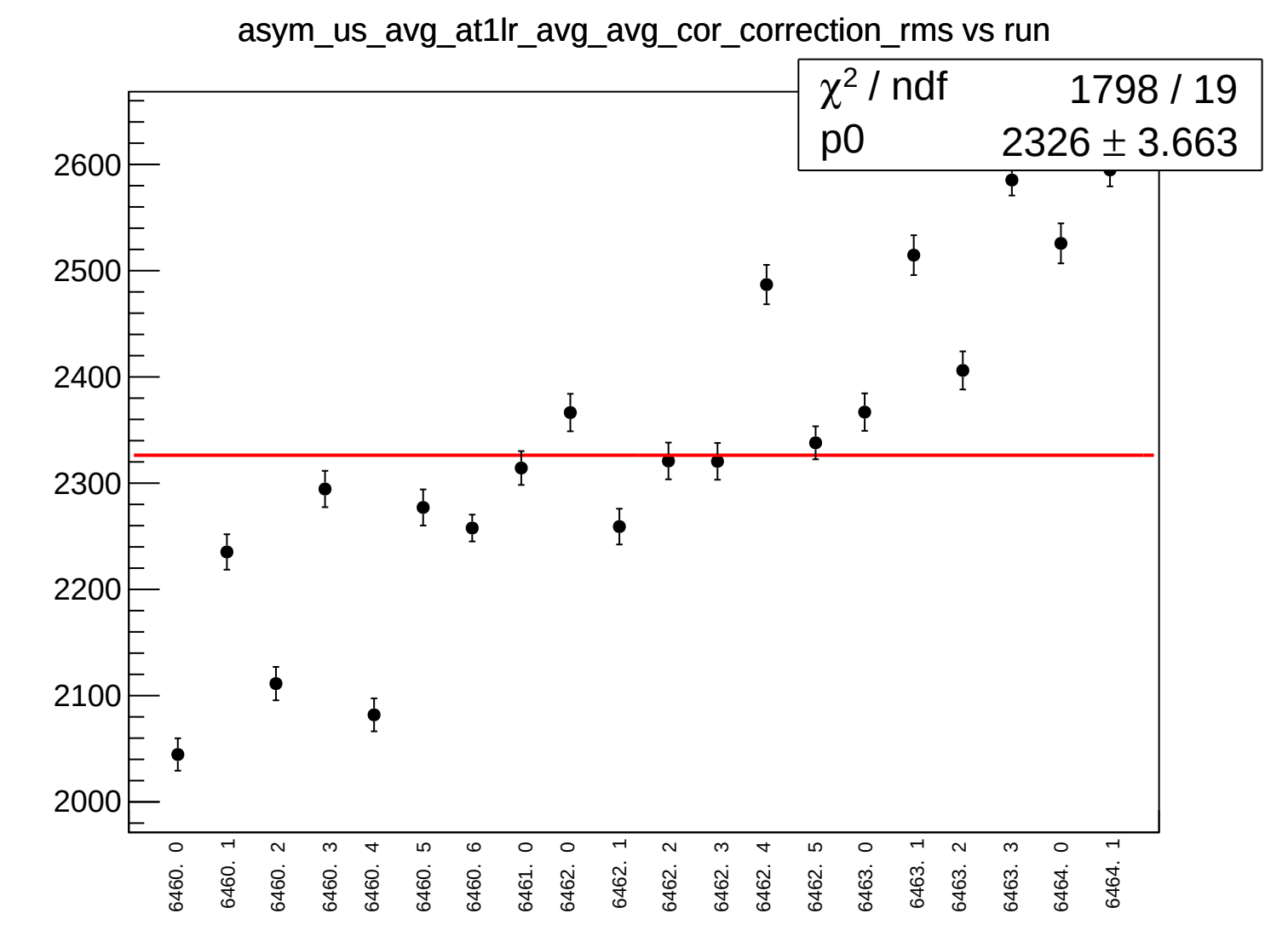

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1799 / 19
p0 2326 ± 3.662
2600
2500
2400
2300
2200
2100
2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

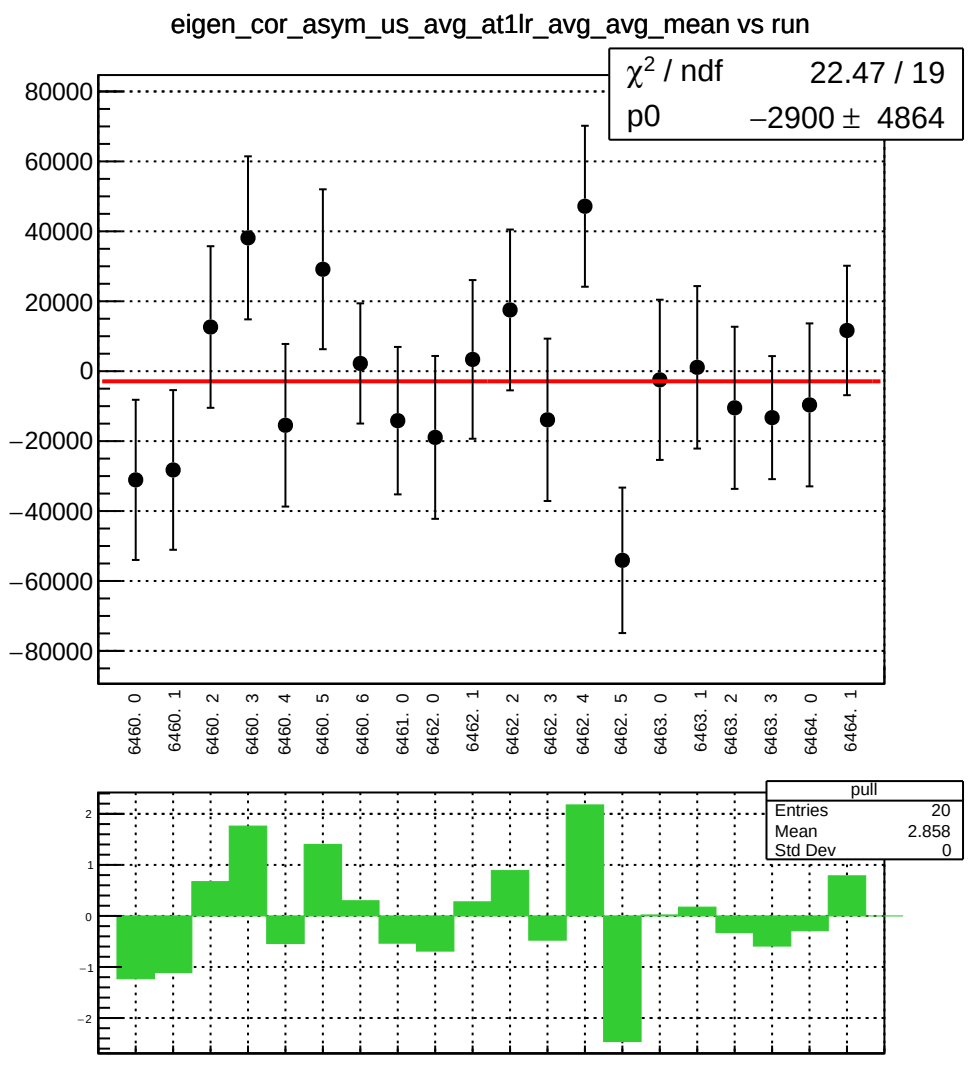

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 22.47 / 19
p0 −2900 ± 4864
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.858
Std Dev 0
2
1
0
−1
−2

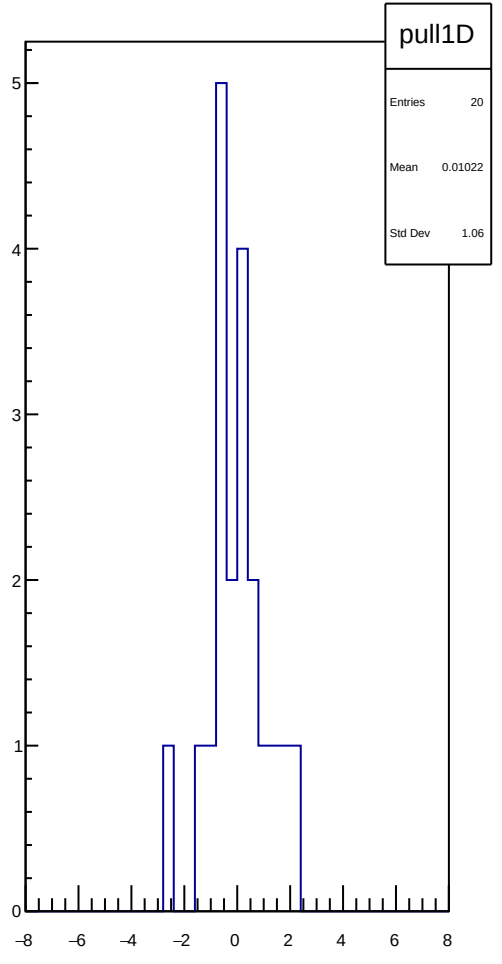

pull1D
Entries 20
Mean 0.01022
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

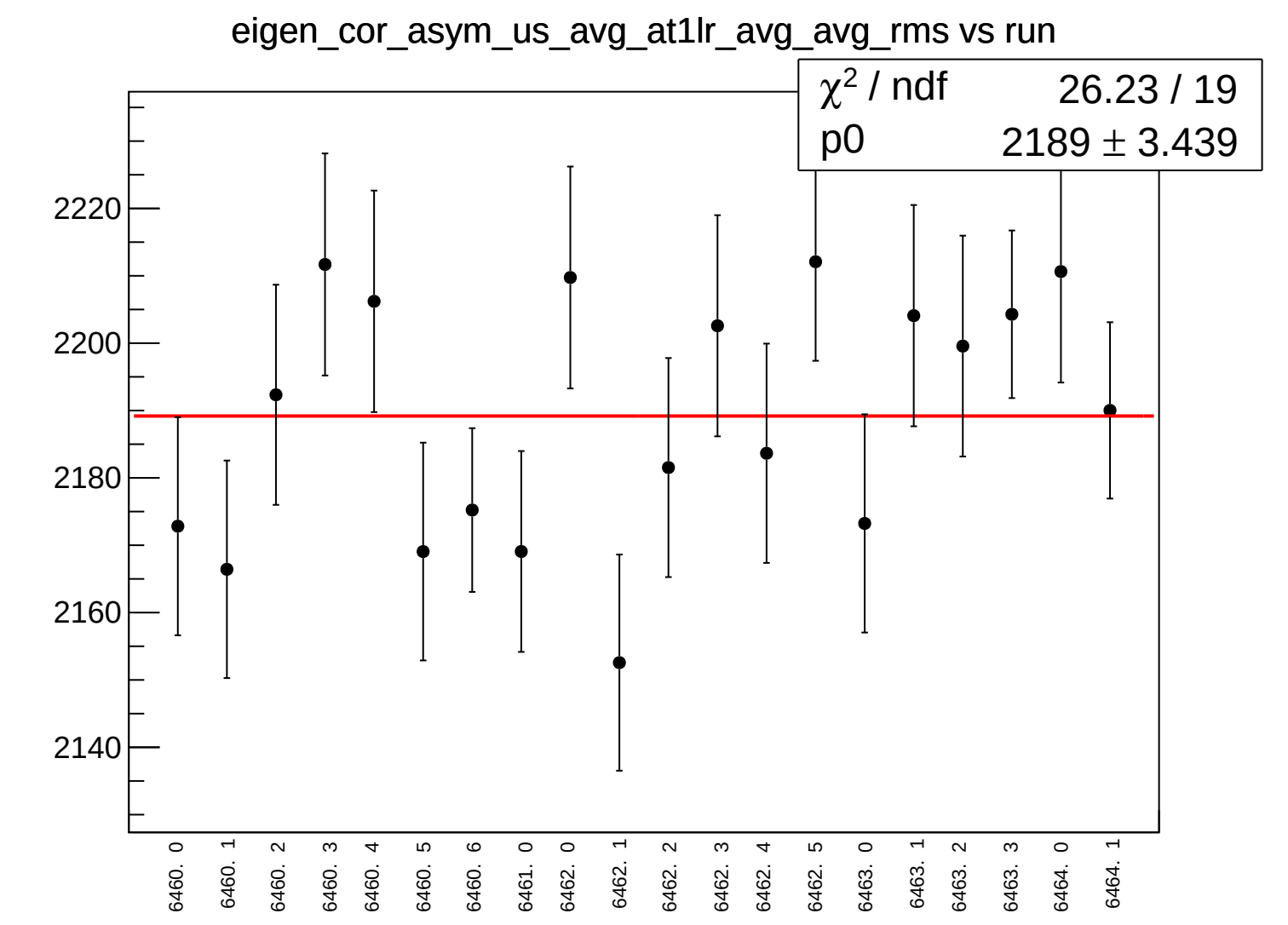

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 26.23 / 19
p0 2189 ± 3.439
2220
2200
2180
2160
2140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

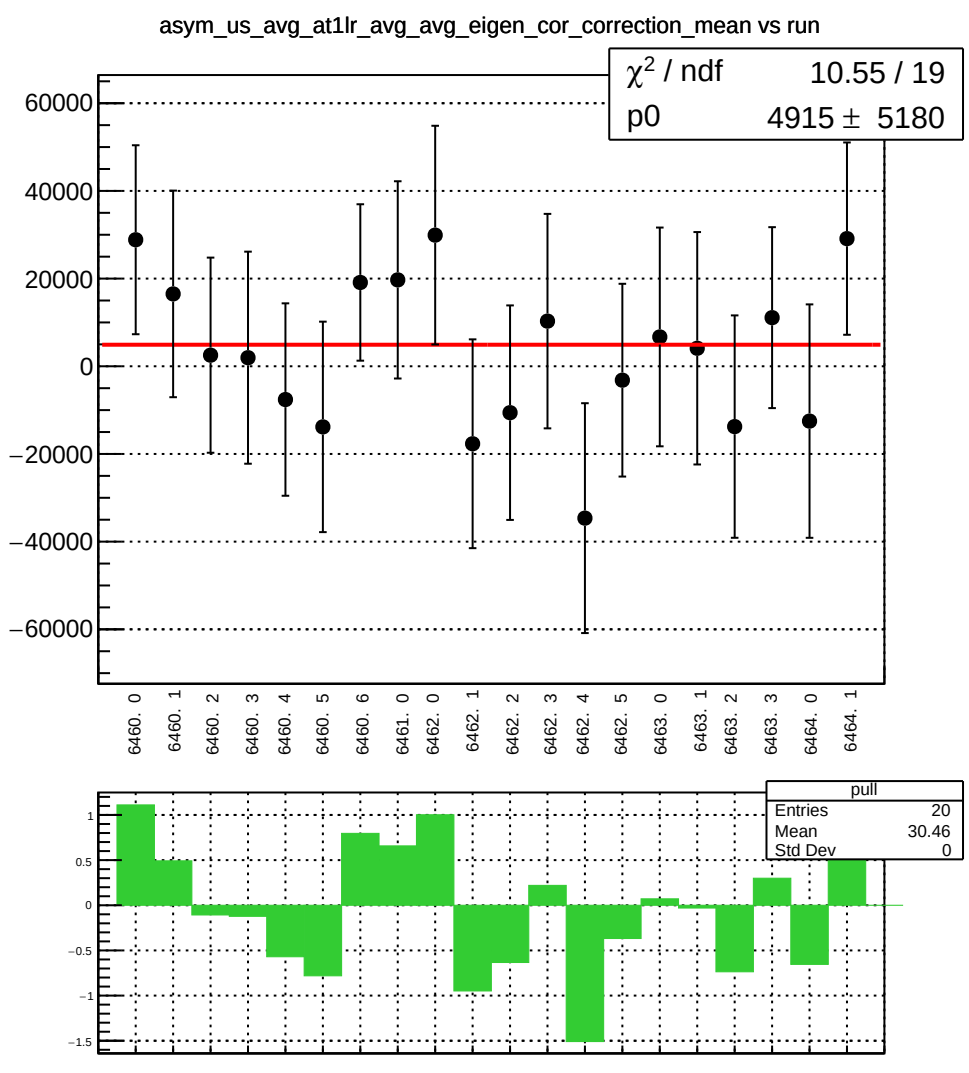

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 10.55 / 19
p0 4915 ± 5180
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.46
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03534
Std Dev 0.7255
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

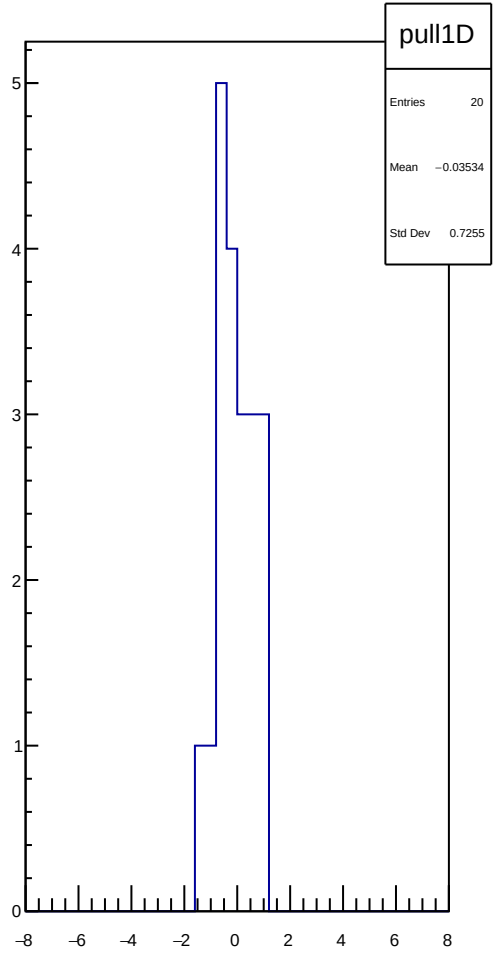

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1798 / 19
p0 2326 ± 3.663
2600
2500
2400
2300
2200
2100
2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

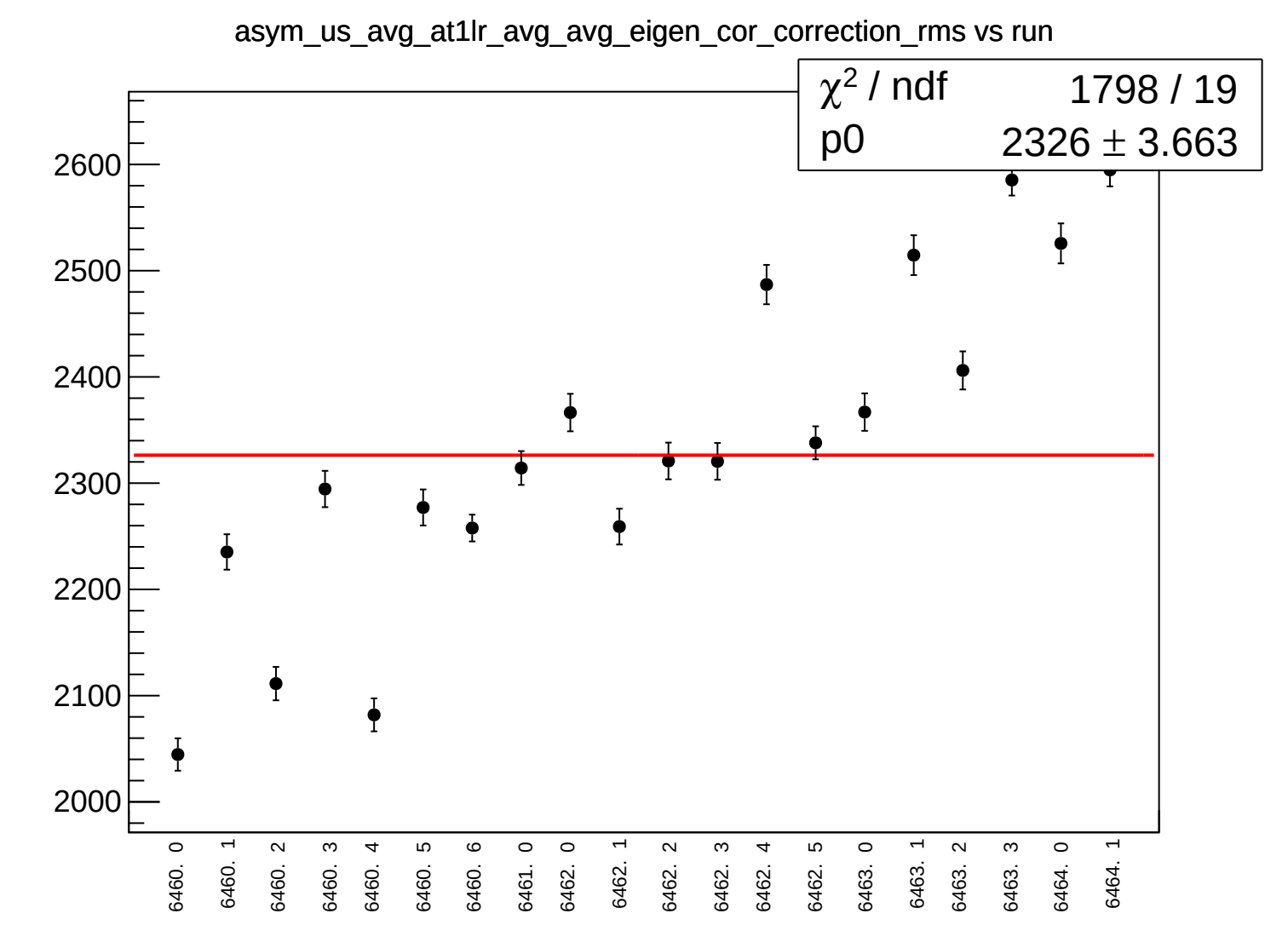

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 22.47 / 19
p0 −2900 ± 4864
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.858
Std Dev 0
2
1
0
−1
−2

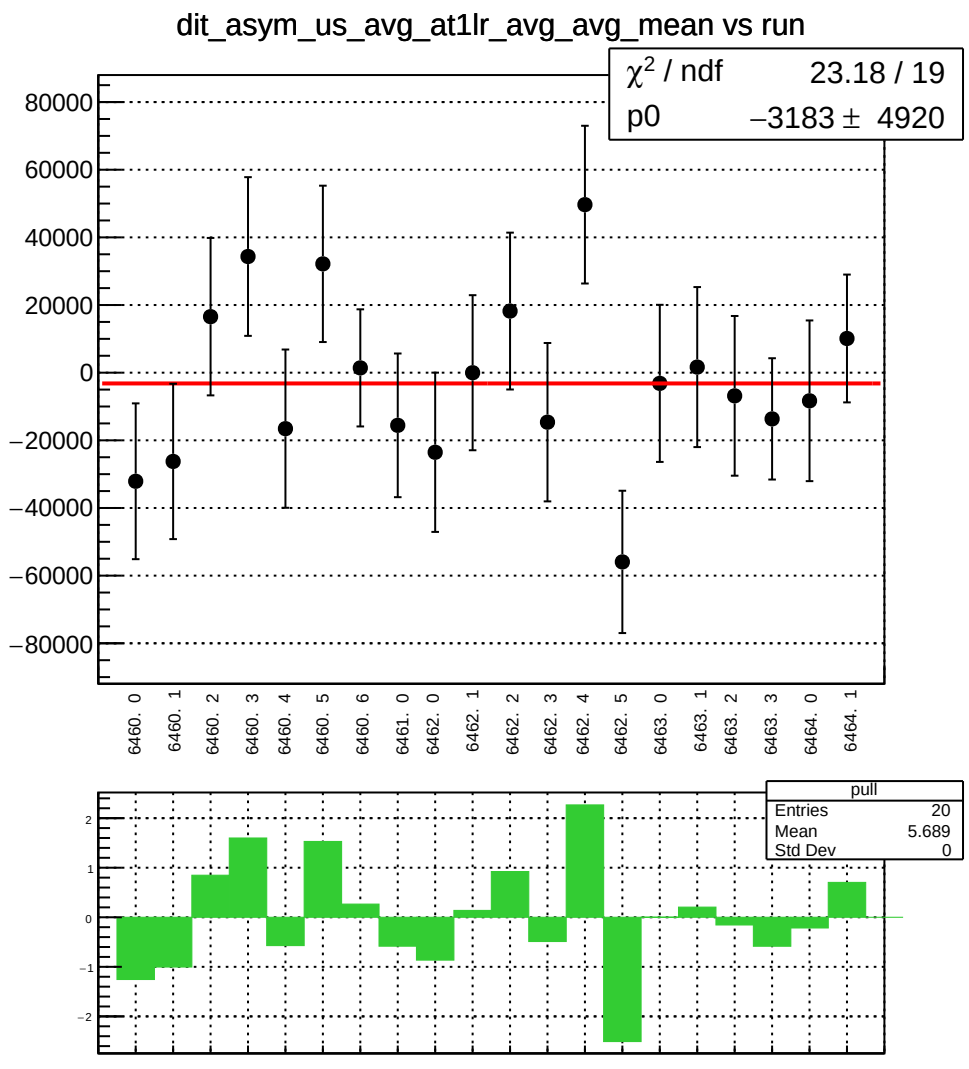

pull1D
Entries 20
Mean 0.01022
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

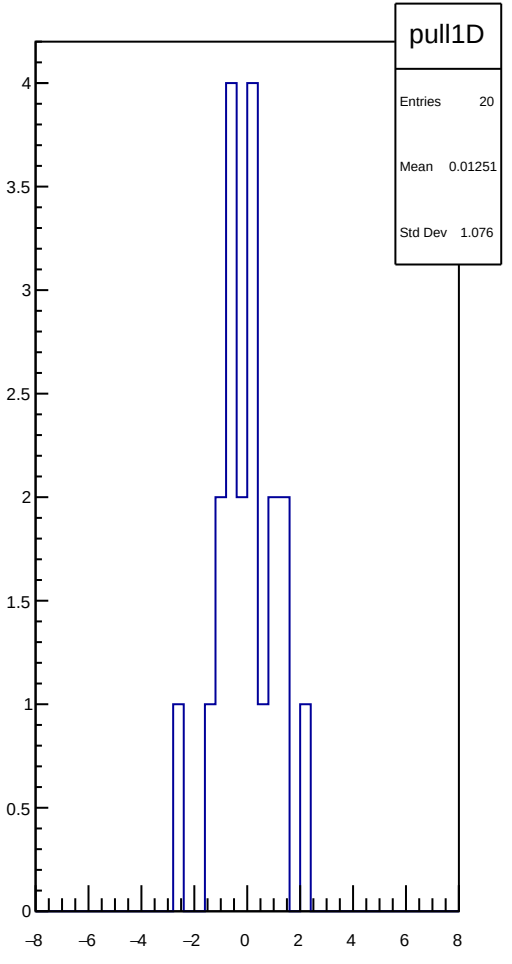

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 26.23 / 19
p0 2189 ± 3.439
2220
2200
2180
2160
2140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

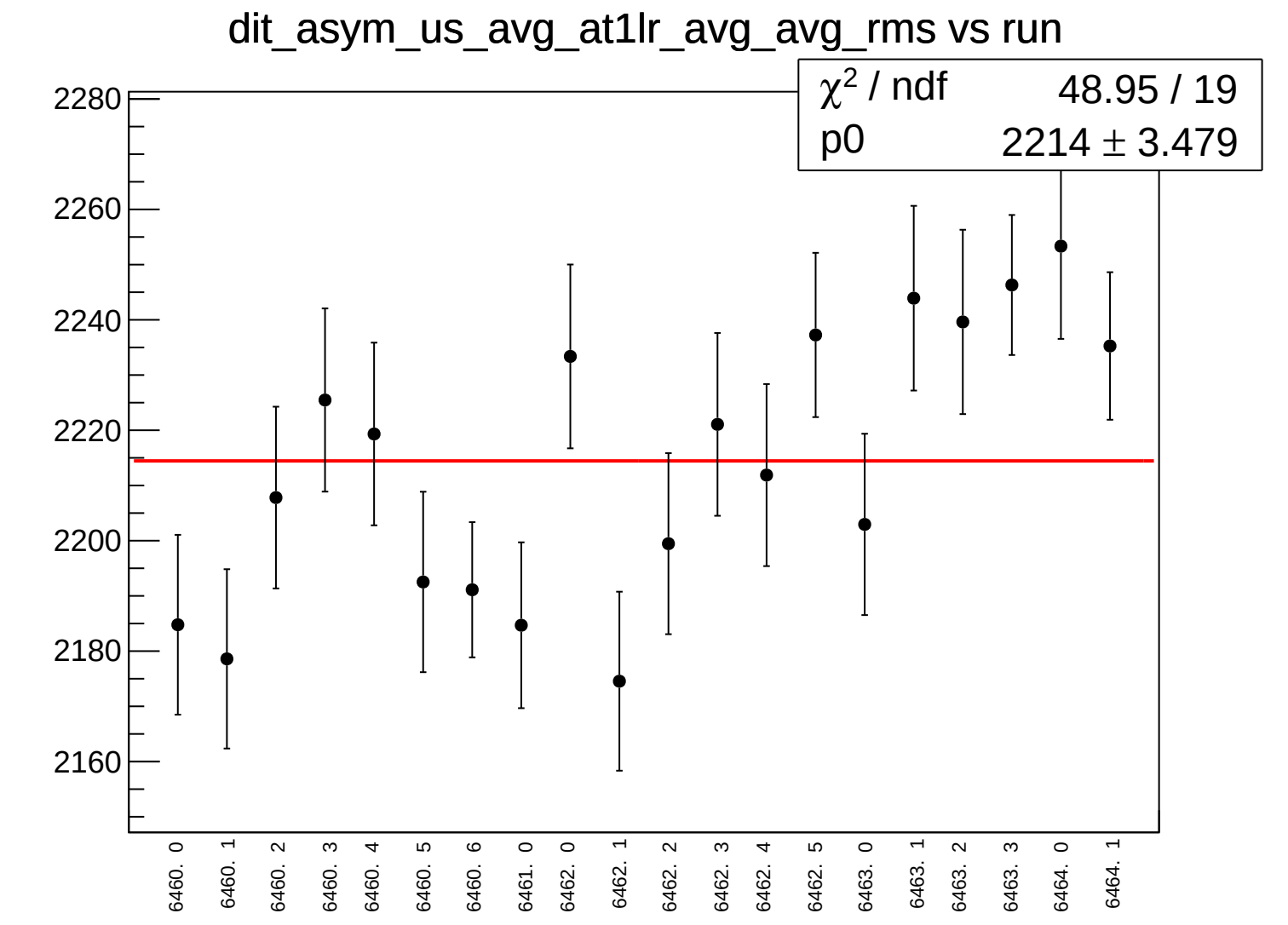

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.55 / 19
p0 4915 ± 5180
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.46
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

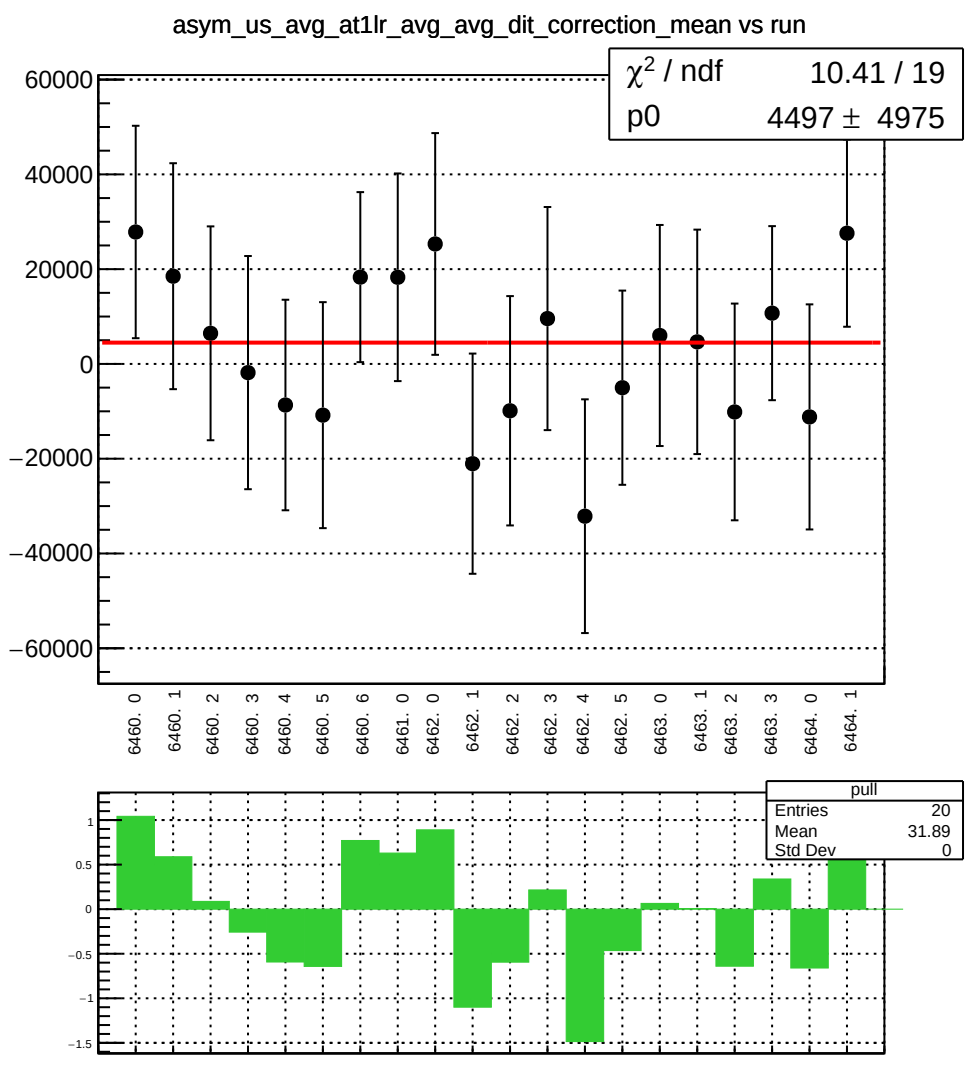

pull1D
Entries 20
Mean −0.03534
Std Dev 0.7255
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

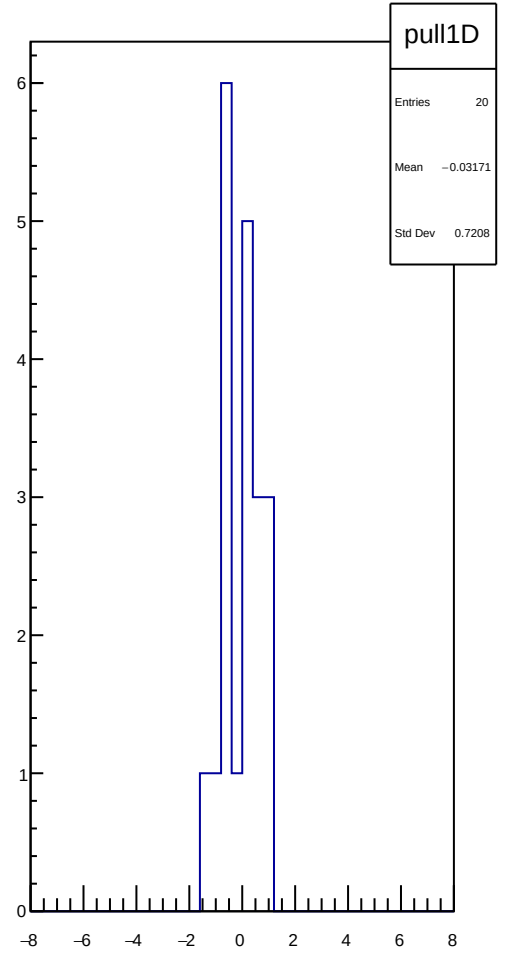

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1798 / 19
p0 2326 ± 3.663
2600
2500
2400
2300
2200
2100
2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

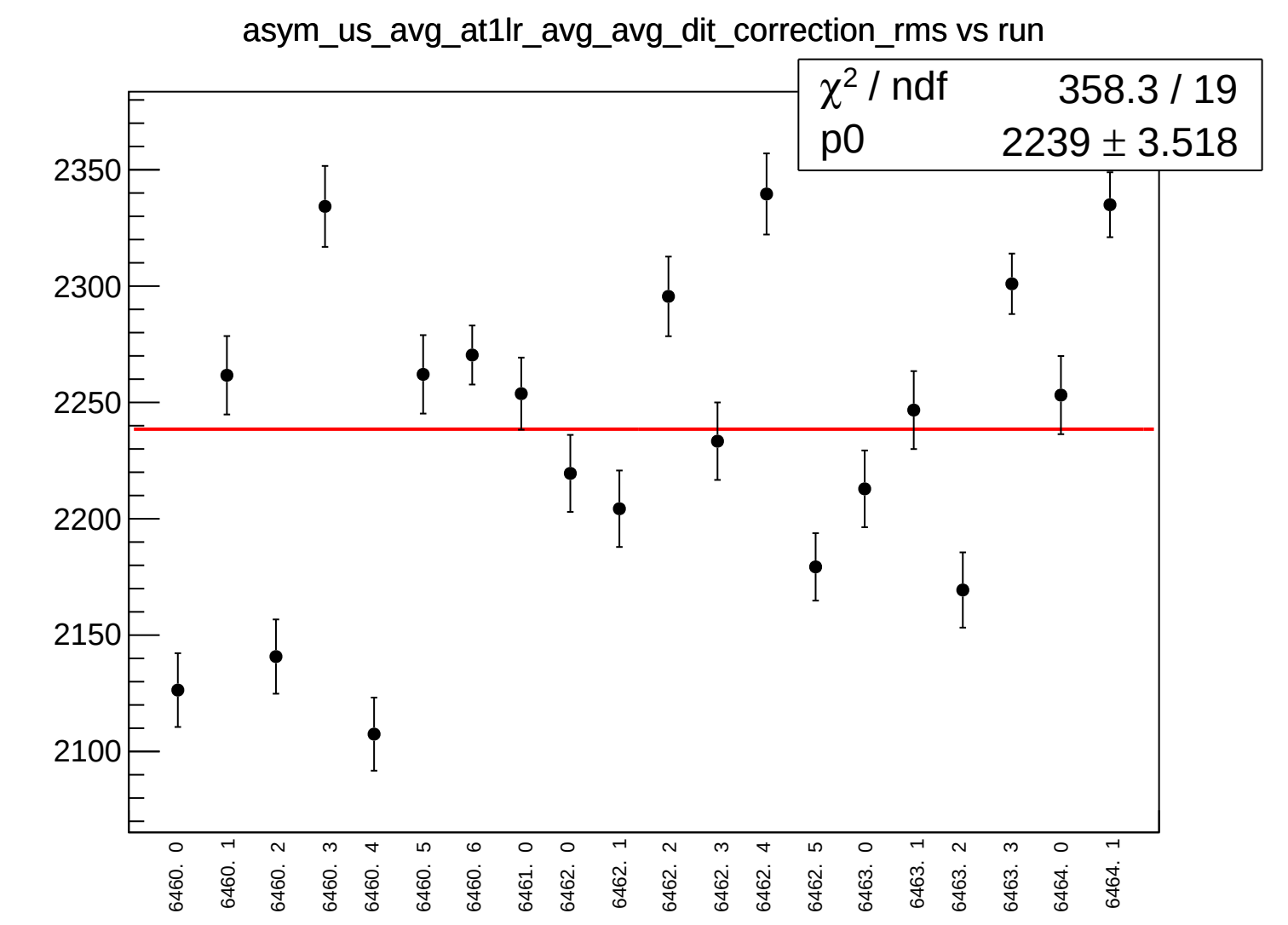

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 23.18 / 19
p0 −3183 ± 4920
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.689
Std Dev 0
2
1
0
−1
−2

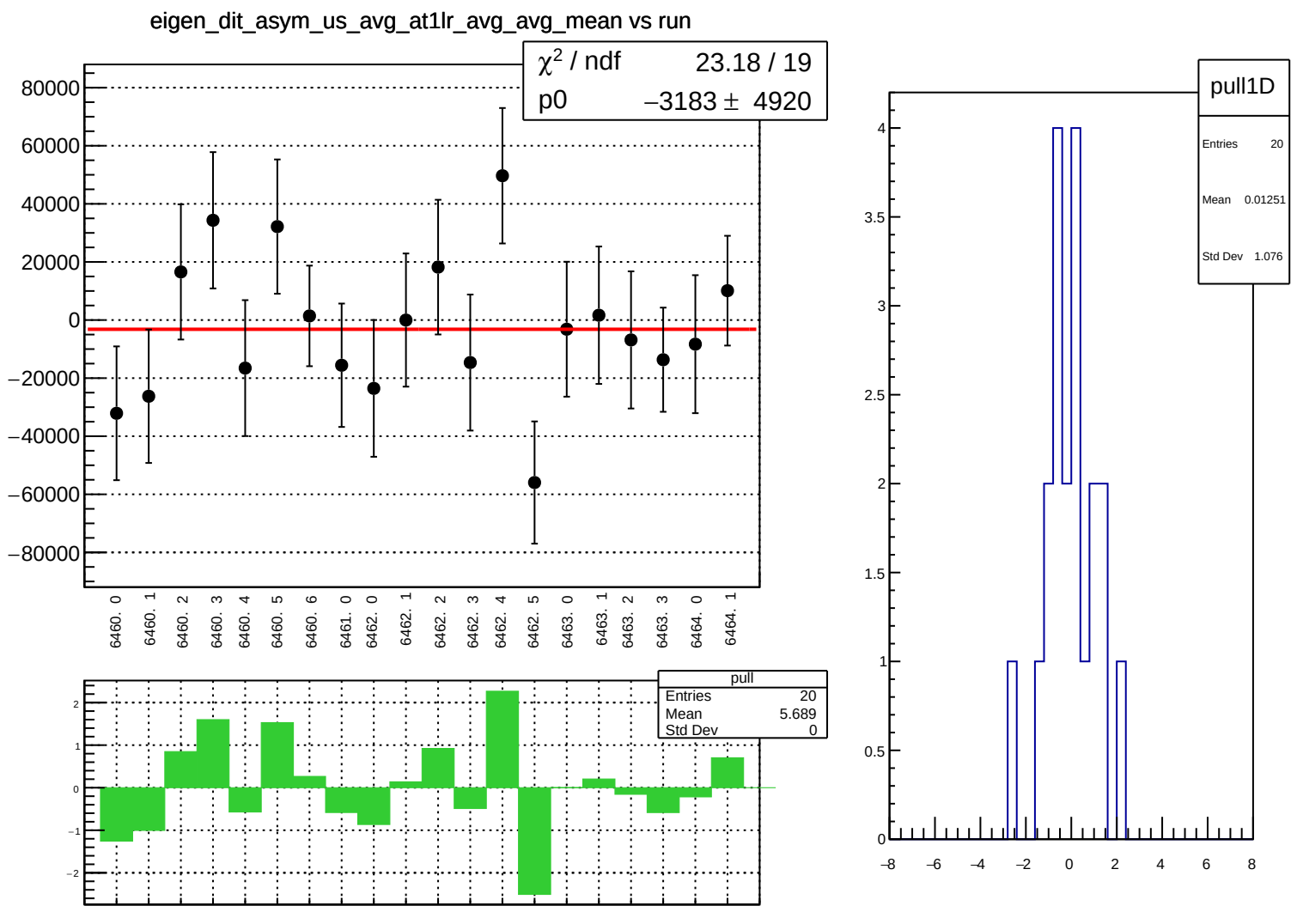

pull1D
Entries 20
Mean 0.01251
Std Dev 1.076
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

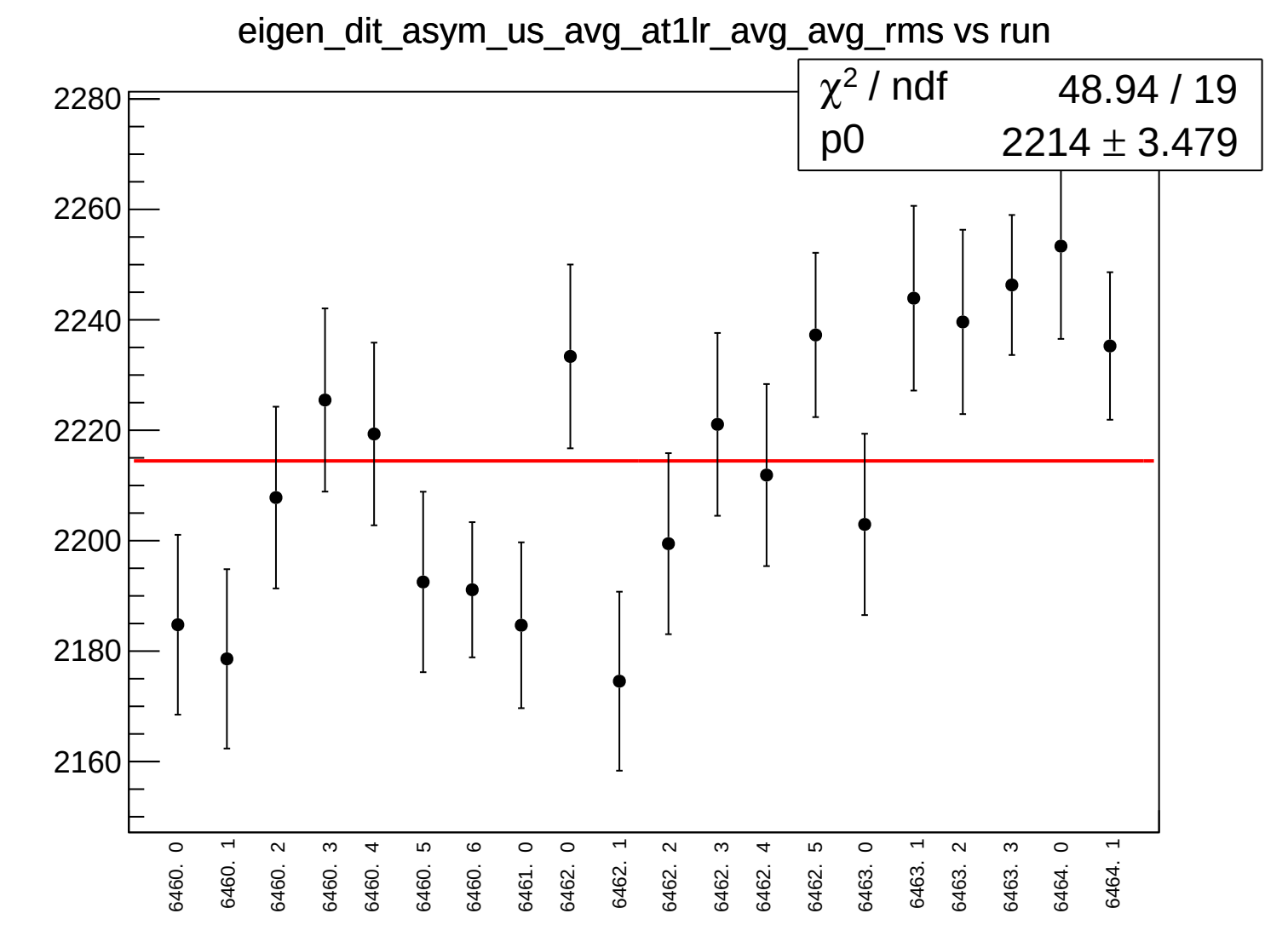

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 48.95 / 19
p0 2214 ± 3.479
2280
2260
2240
2220
2200
2180
2160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

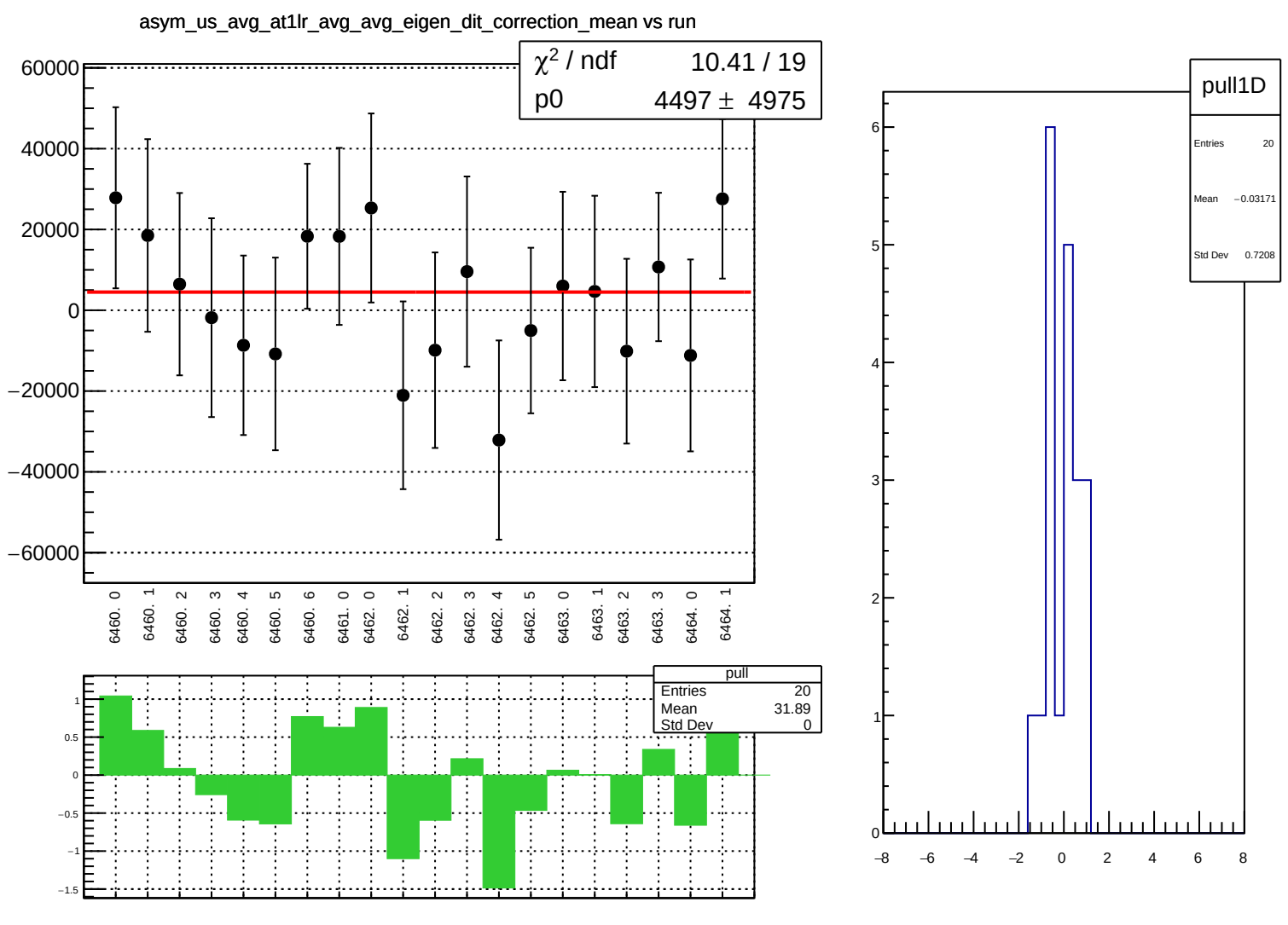

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 10.41 / 19
p0 4497 ± 4975
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.89
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

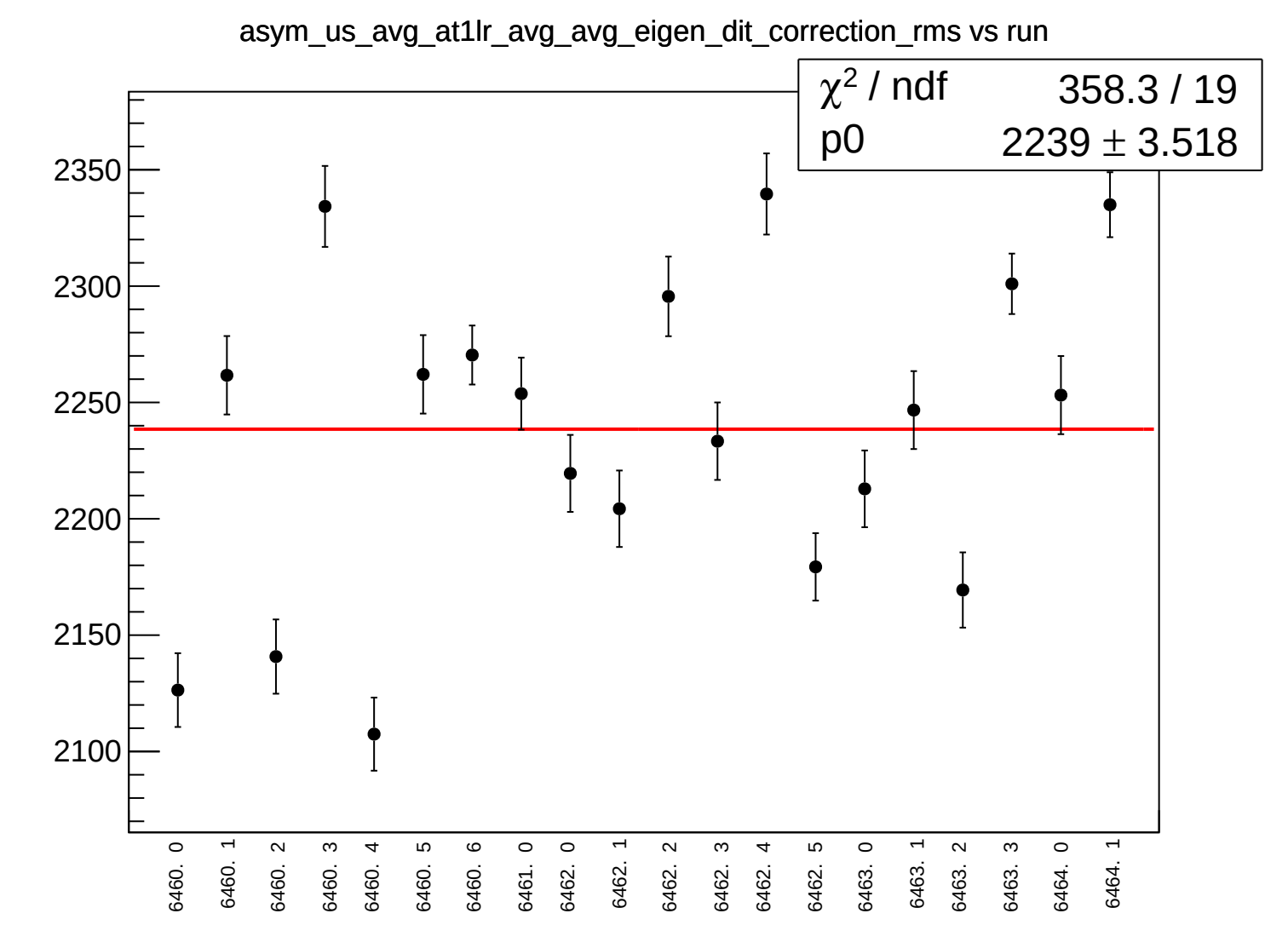

pull1D
Entries 20
Mean −0.03171
Std Dev 0.7208
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

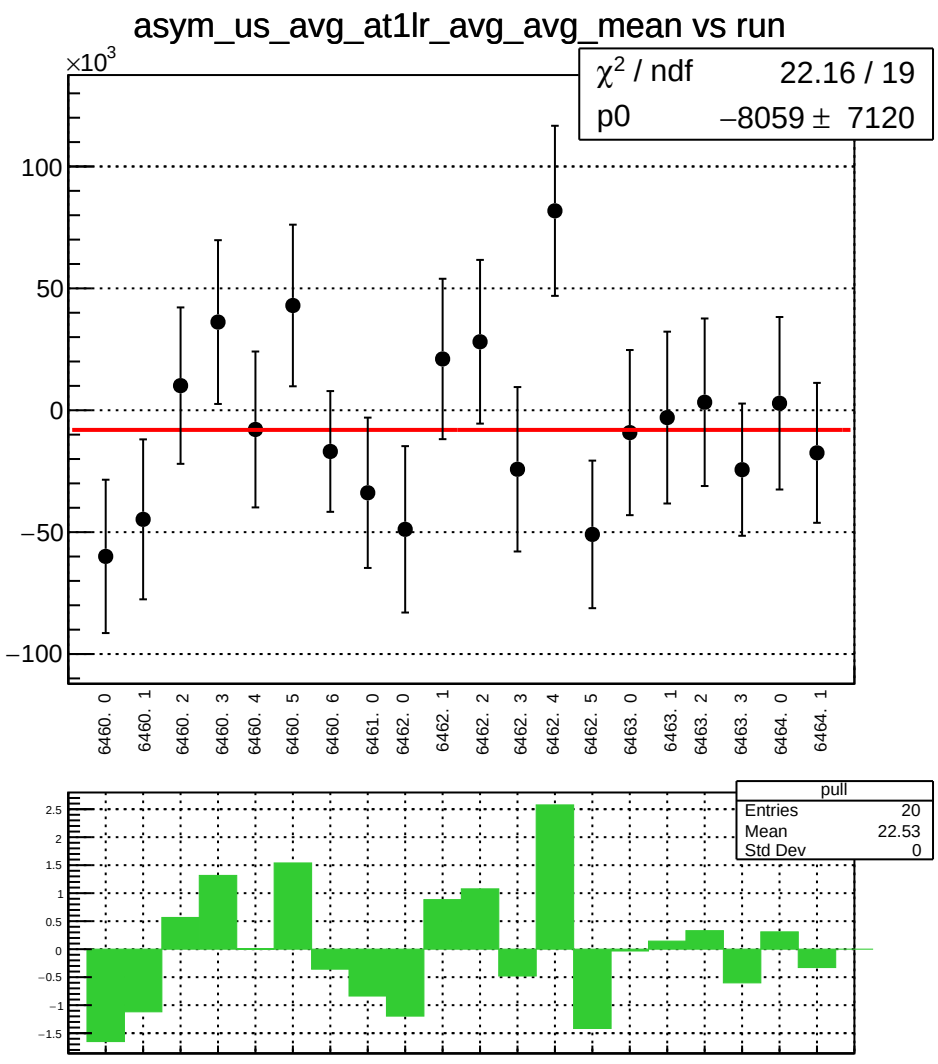

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 358.3 / 19
p0 2239 ± 3.518
2350
2300
2250
2200
2150
2100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

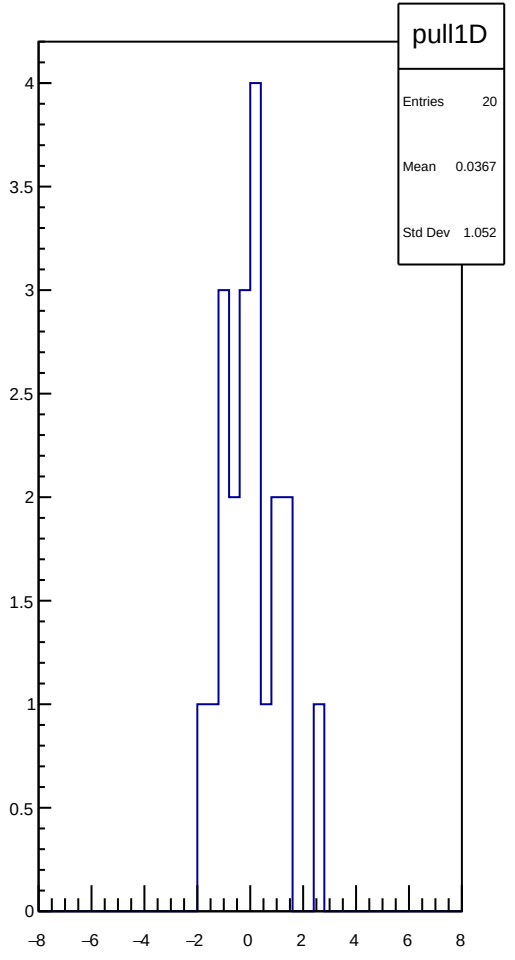

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 23.18 / 19
p0 −3183 ± 4920
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.689
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.01251
Std Dev 1.076
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

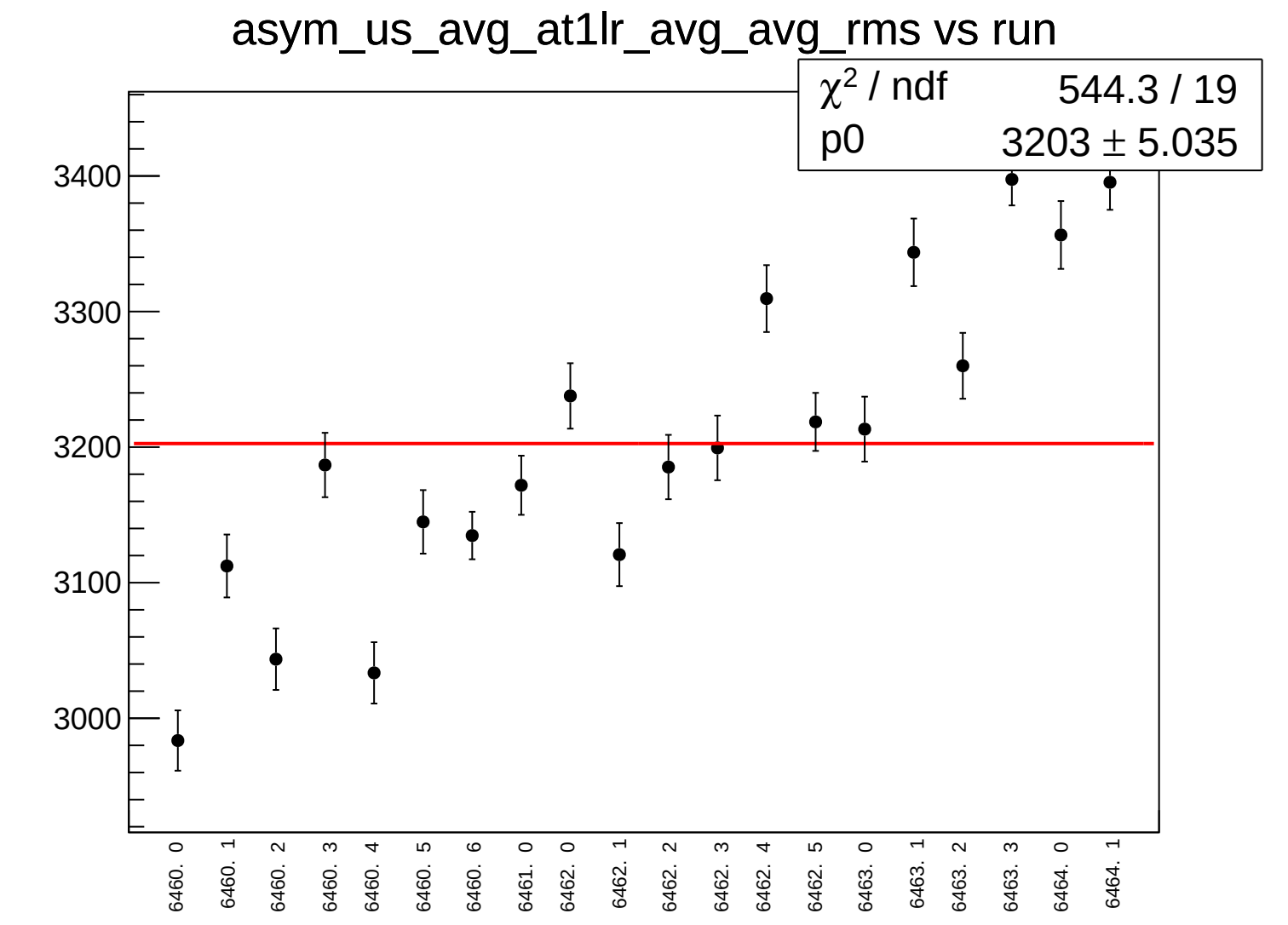

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 48.94 / 19
p0 2214 ± 3.479
2280
2260
2240
2220
2200
2180
2160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

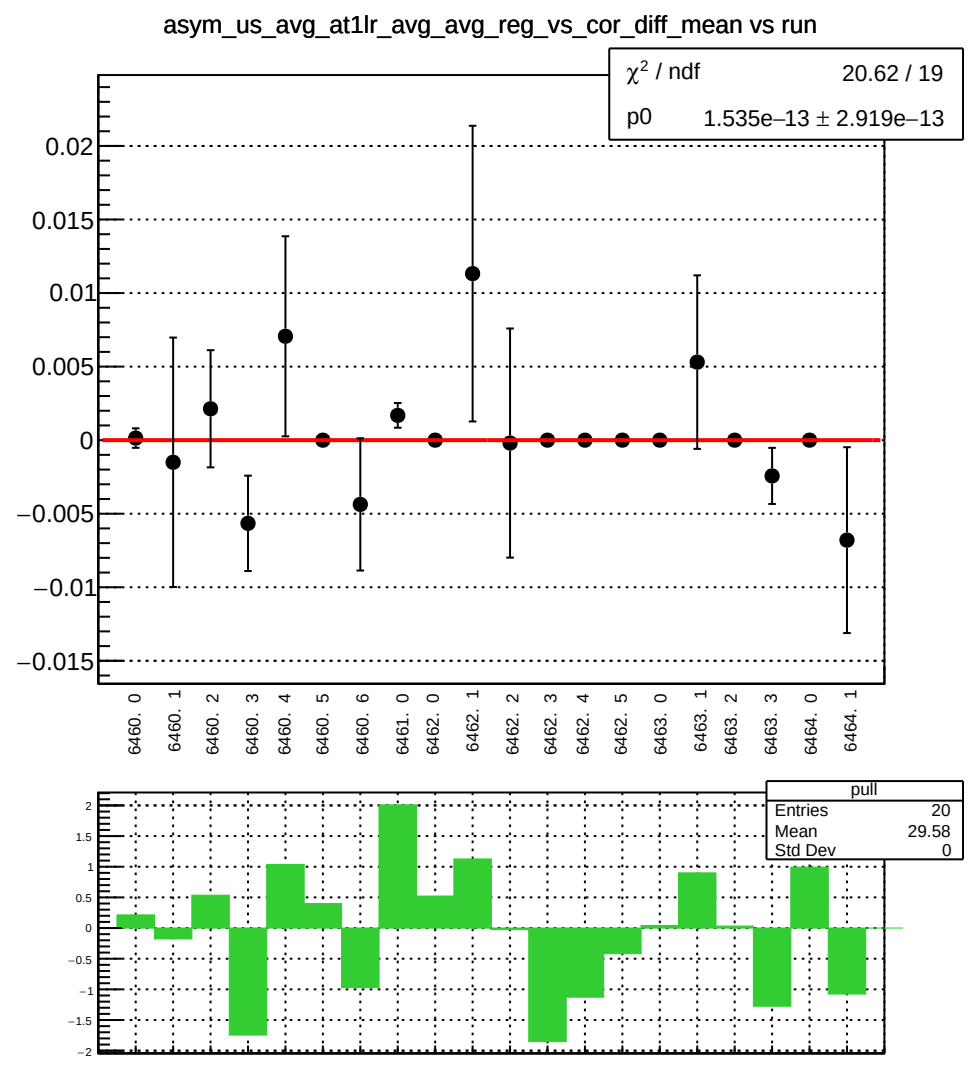

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.41 / 19
p0 4497 ± 4975
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.89
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03171
Std Dev 0.7208
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

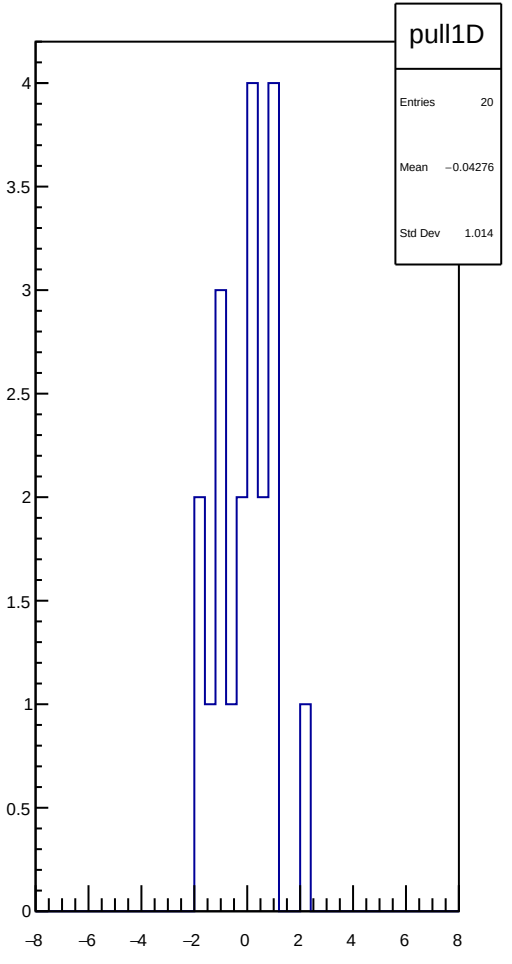

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 358.3 / 19
p0 2239 ± 3.518
2350
2300
2250
2200
2150
2100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

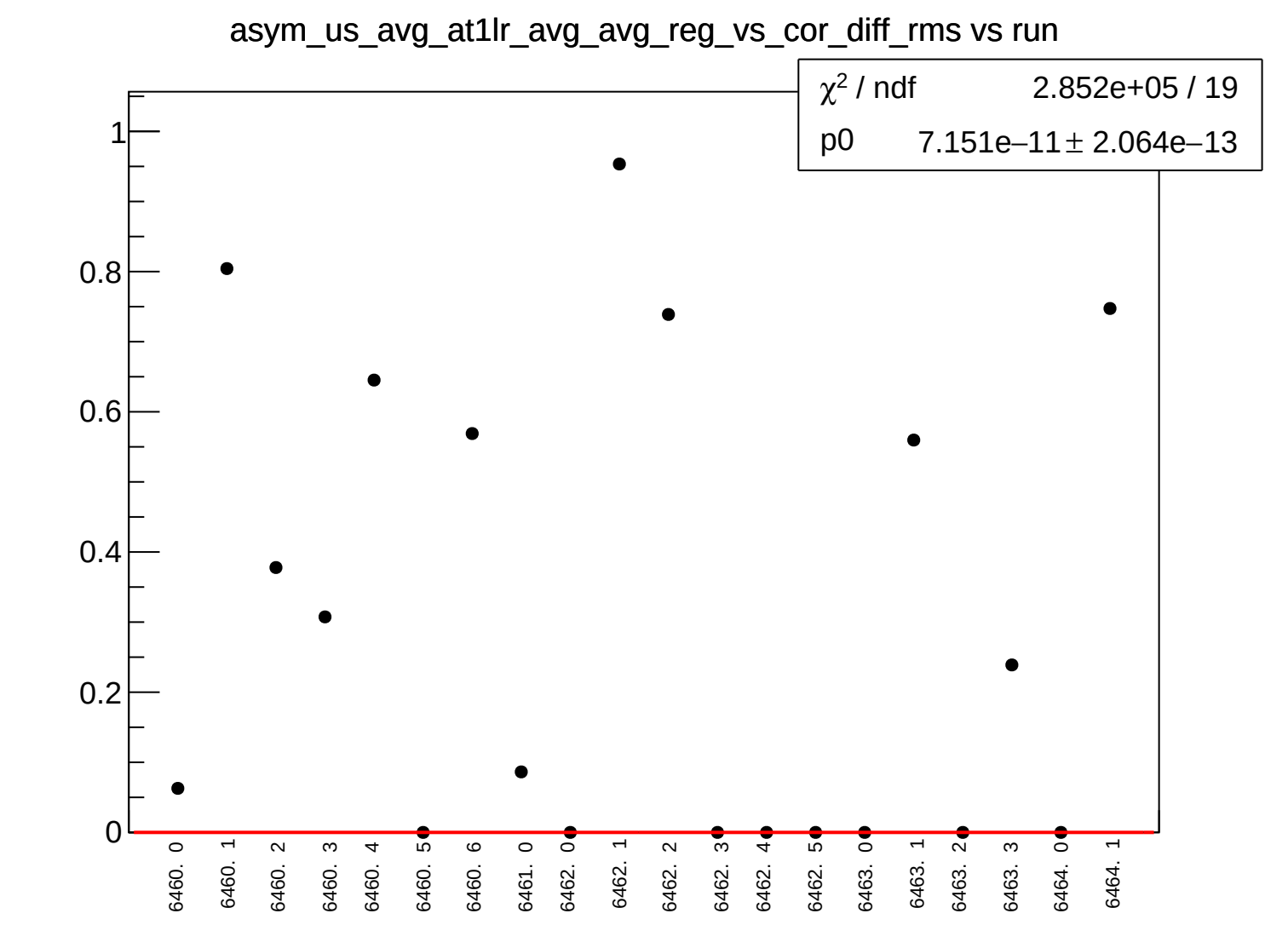

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 22.16 / 19
p0 −8059 ± 7120
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 22.53
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

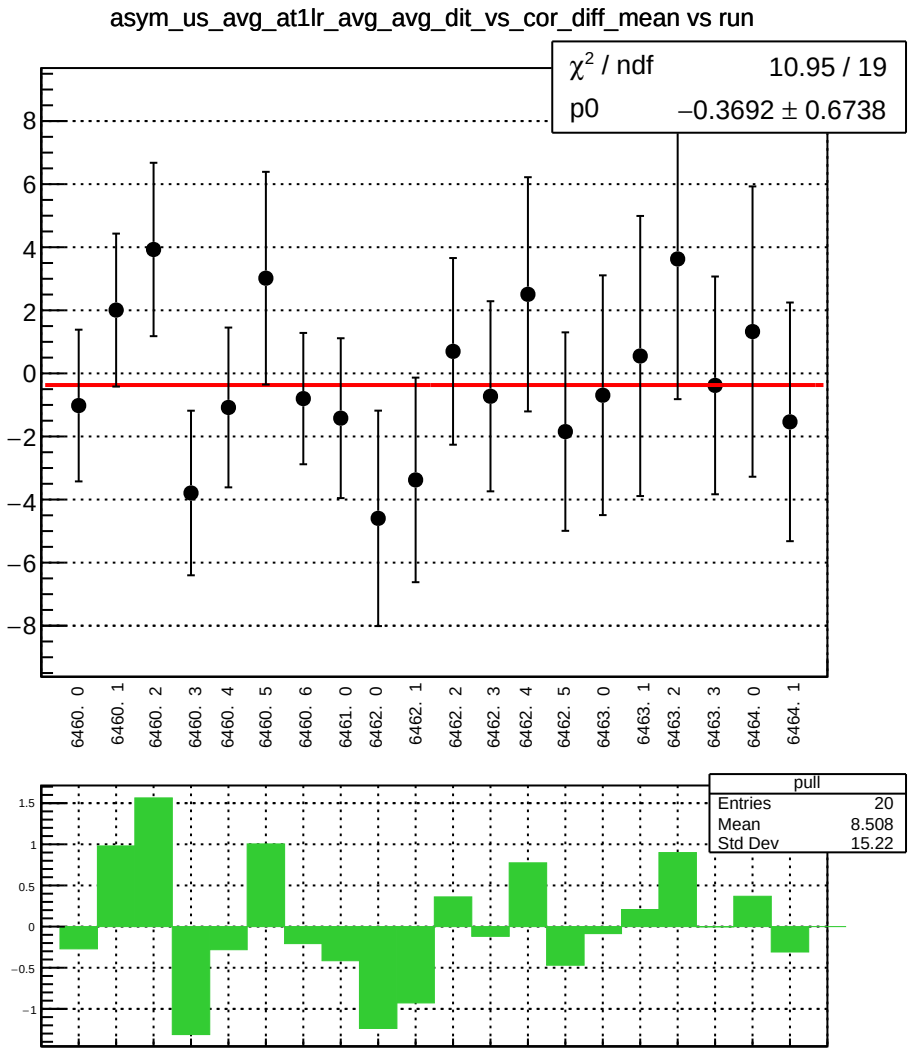

pull1D
Entries 20
Mean 0.0367
Std Dev 1.052
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

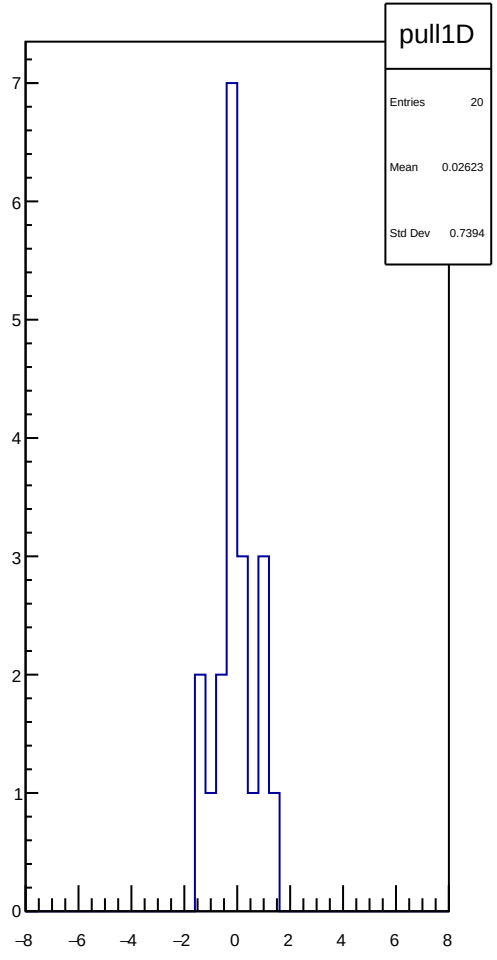

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 544.3 / 19
p0 3203 ± 5.035
3400
3300
3200
3100
3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

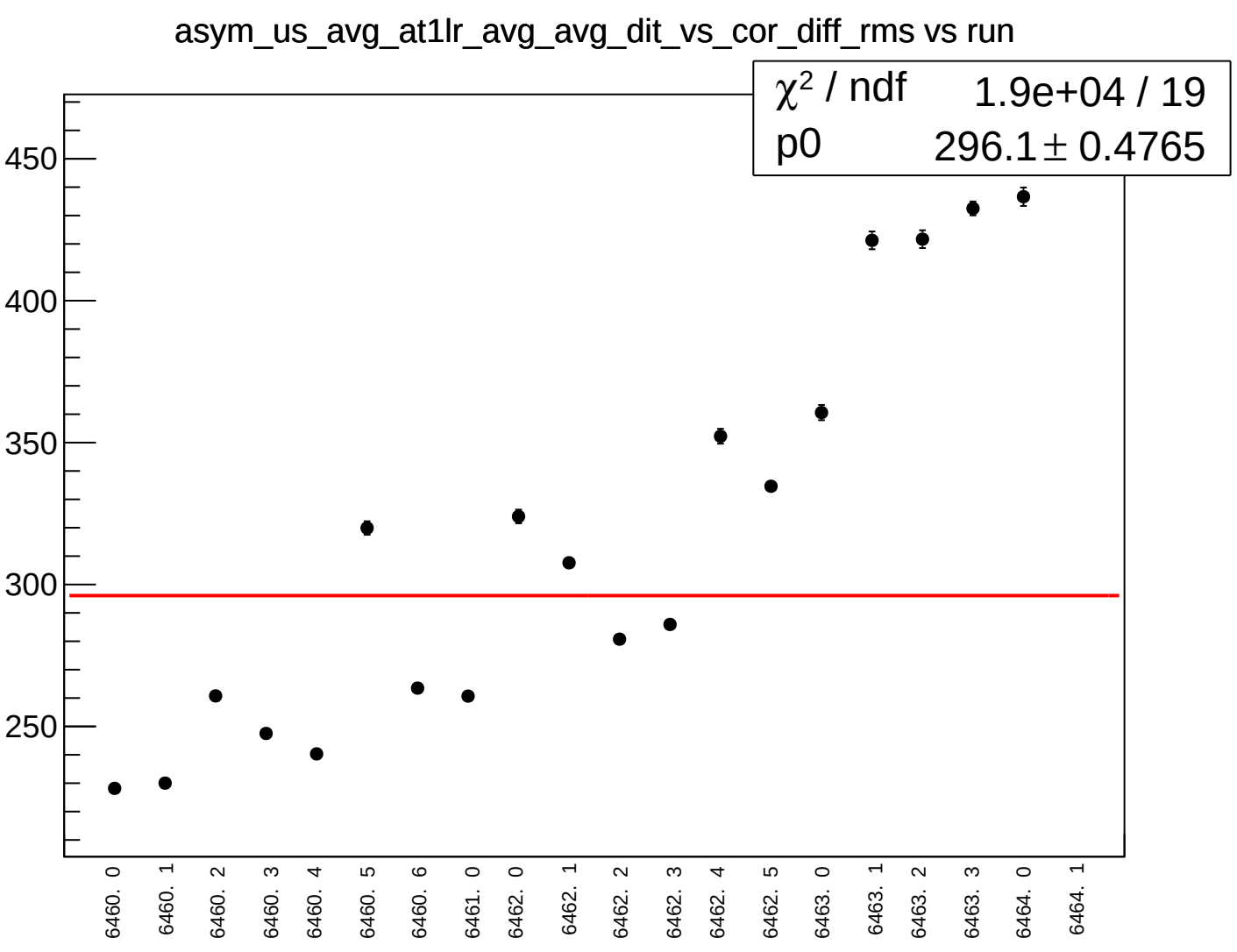

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.62 / 19
p0 1.535e−13 ± 2.919e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

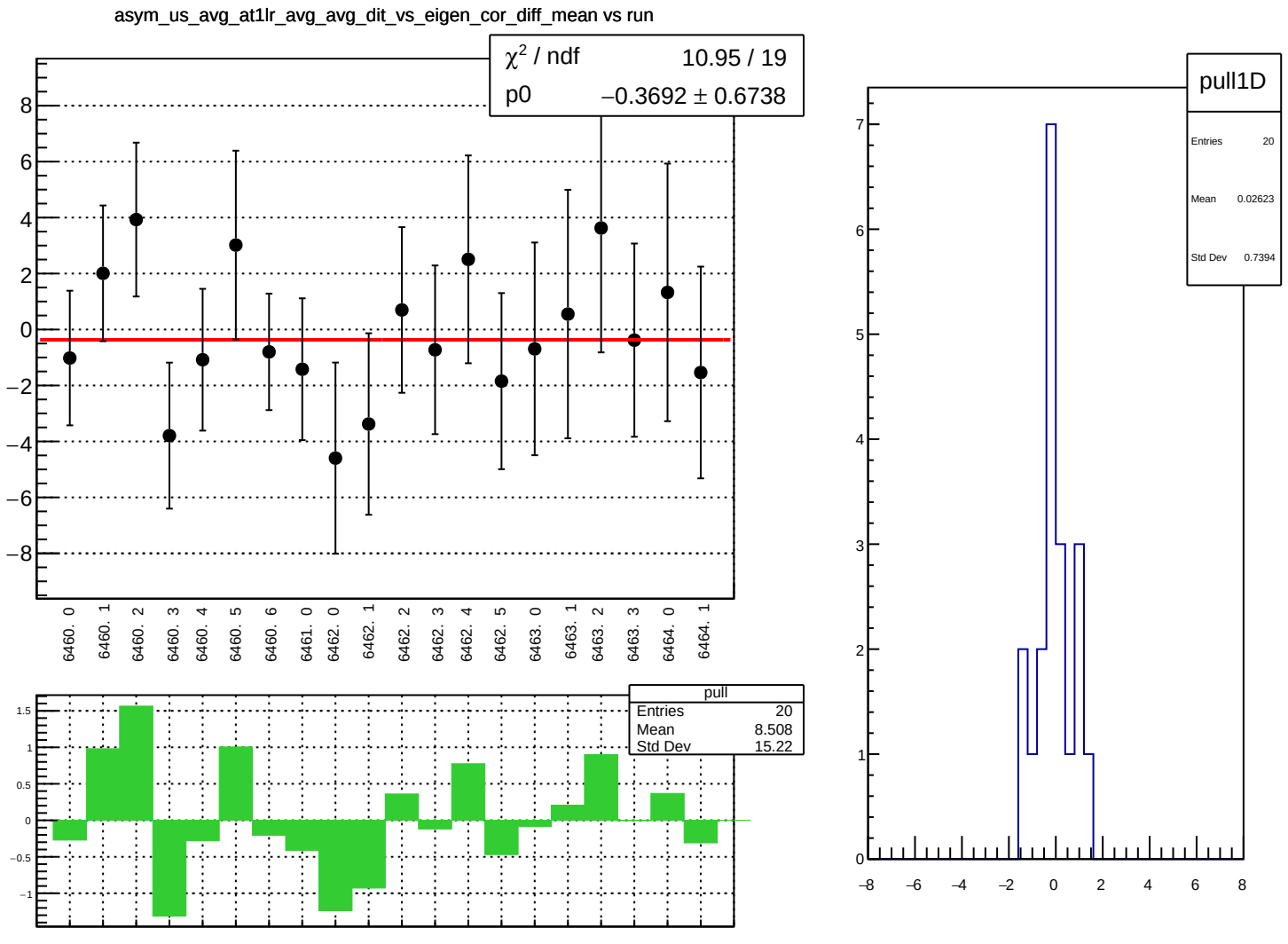

pull1D
Entries 20
Mean −0.04276
Std Dev 1.014
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

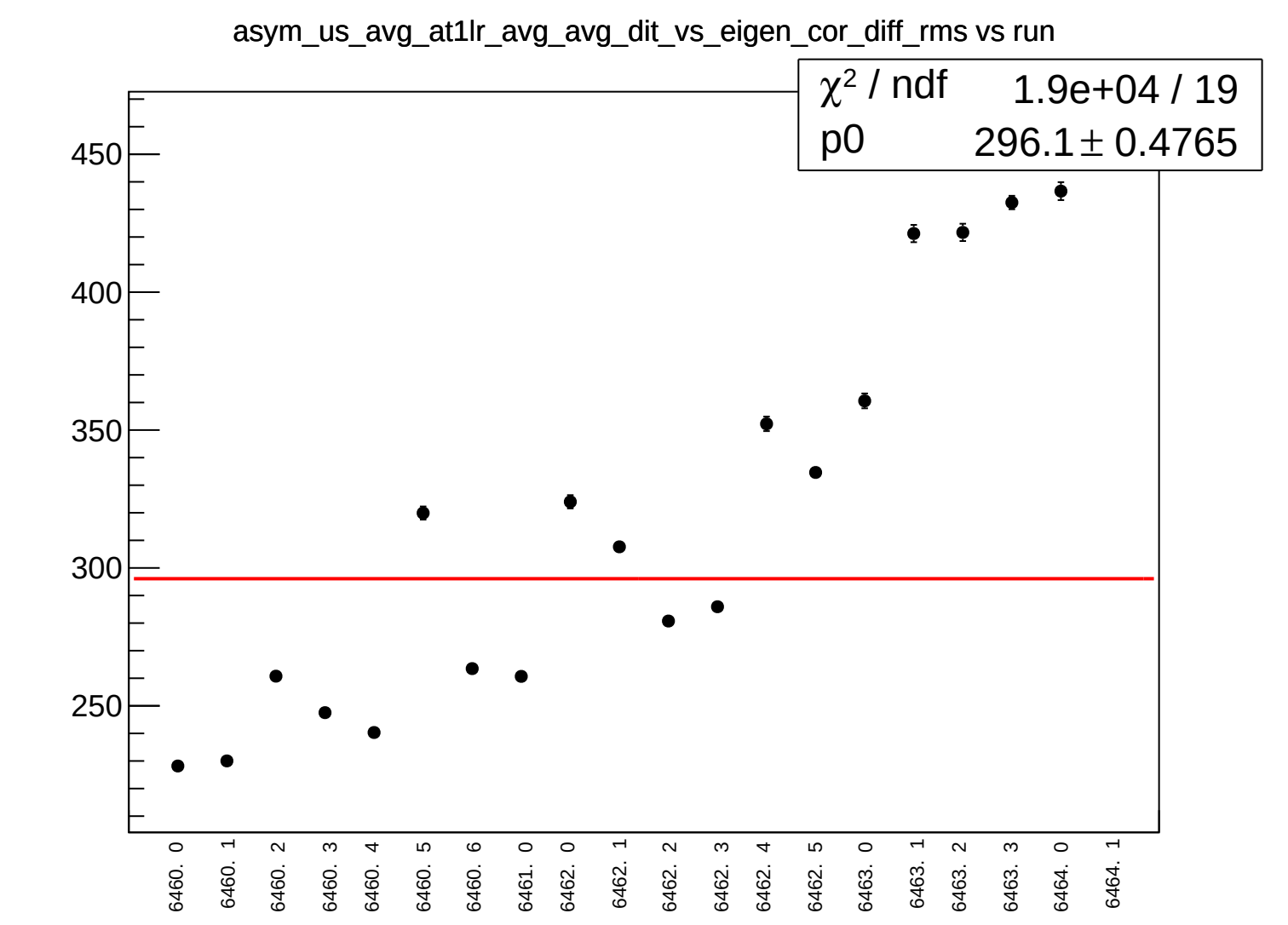

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.852e+05 / 19
p0 7.151e−11 ± 2.064e−13
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

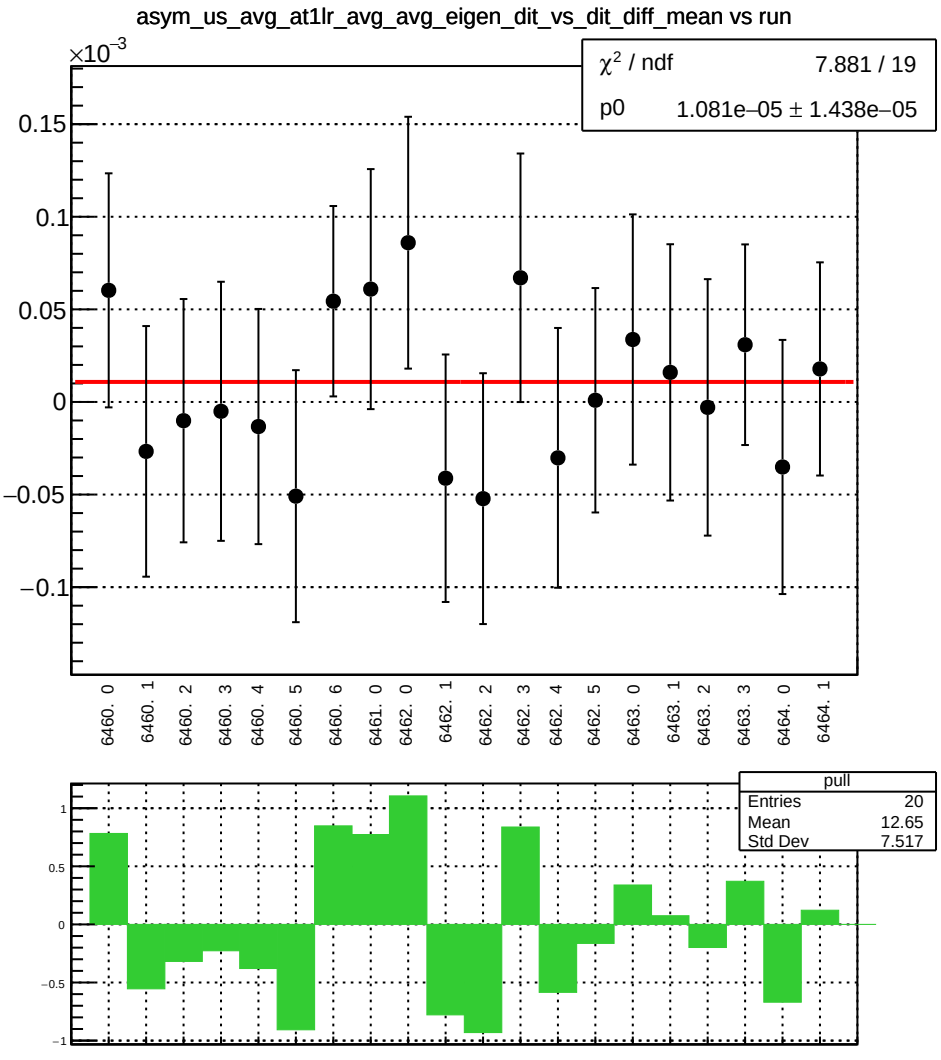

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 10.95 / 19
p0 −0.3692 ± 0.6738
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.508
Std Dev 15.22

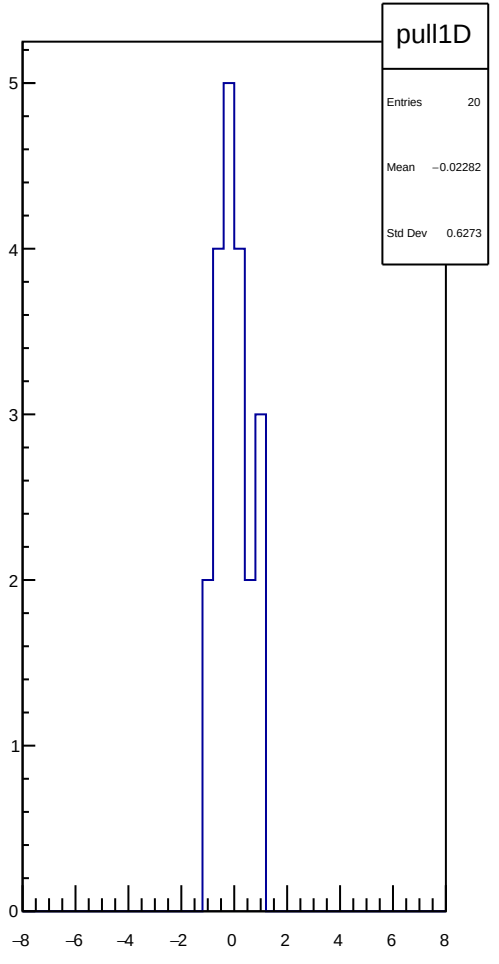

pull1D
Entries 20
Mean 0.02623
Std Dev 0.7394

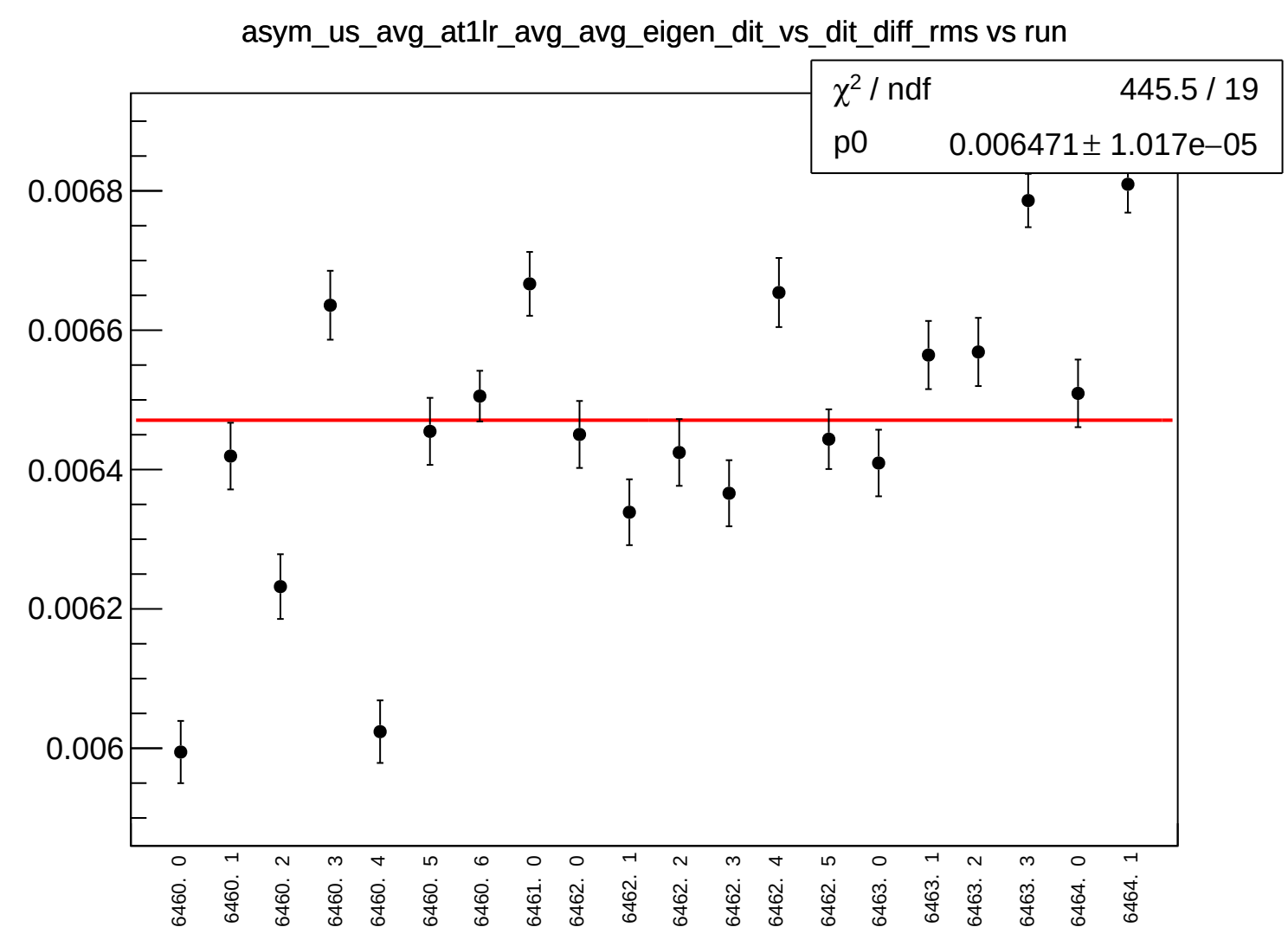

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.9e+04 / 19
p0 296.1 ± 0.4765
450
400
350
300
250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

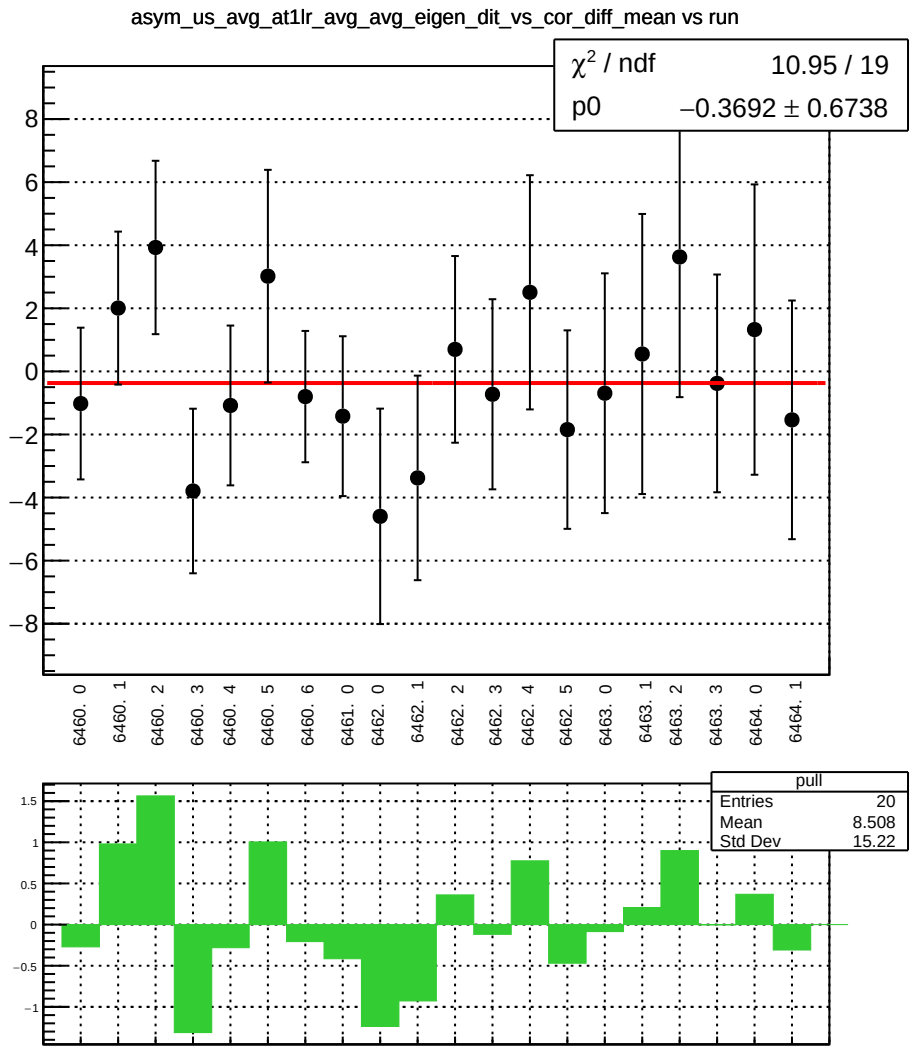

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.95 / 19
p0 −0.3692 ± 0.6738
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.508
Std Dev 15.22
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02623
Std Dev 0.7394
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

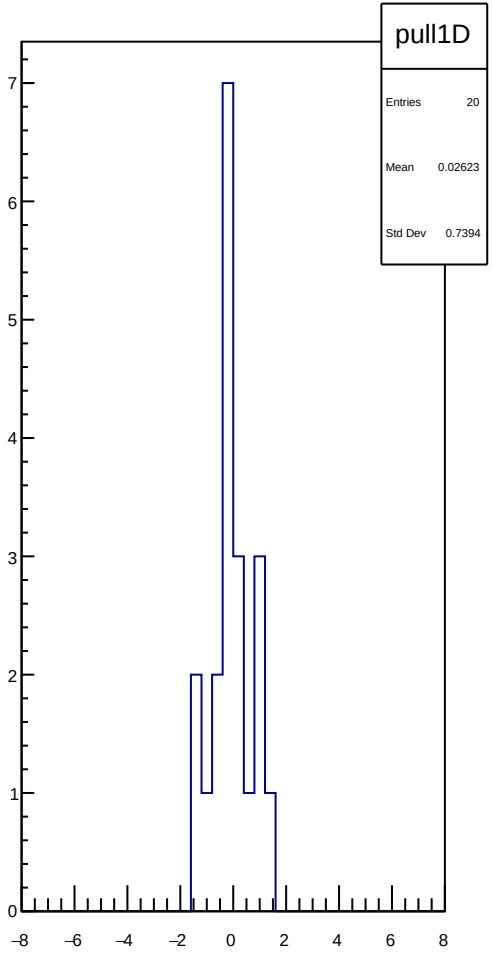

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.9e+04 / 19
p0 296.1 ± 0.4765
450
400
350
300
250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

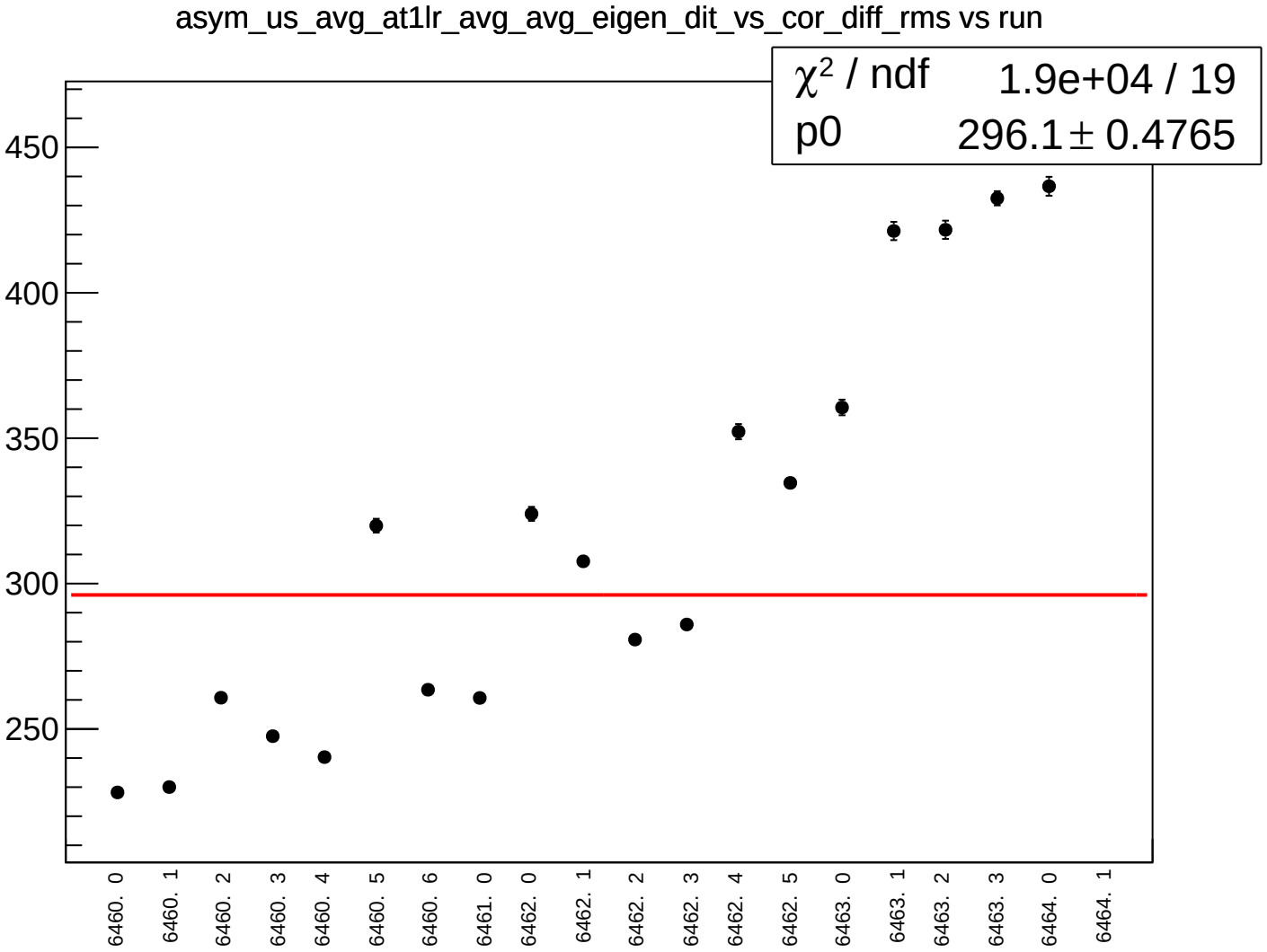

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 7.881 / 19
p0 1.081e−05 ± 1.438e−05
0.15
0.1
0.05
0
−0.05
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.65
Std Dev 7.517
1
0.5
0
−0.5
−1

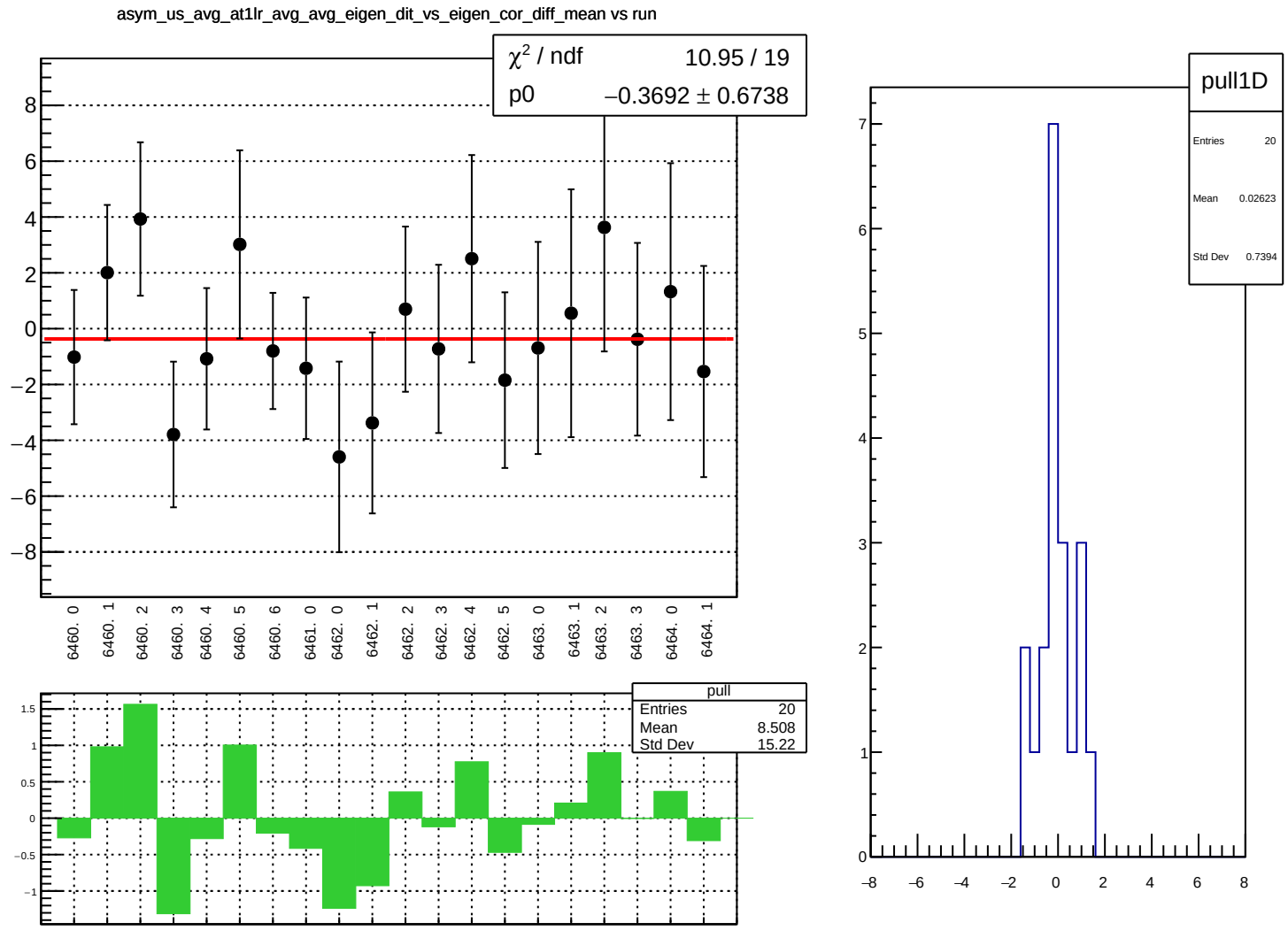

pull1D
Entries 20
Mean −0.02282
Std Dev 0.6273
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

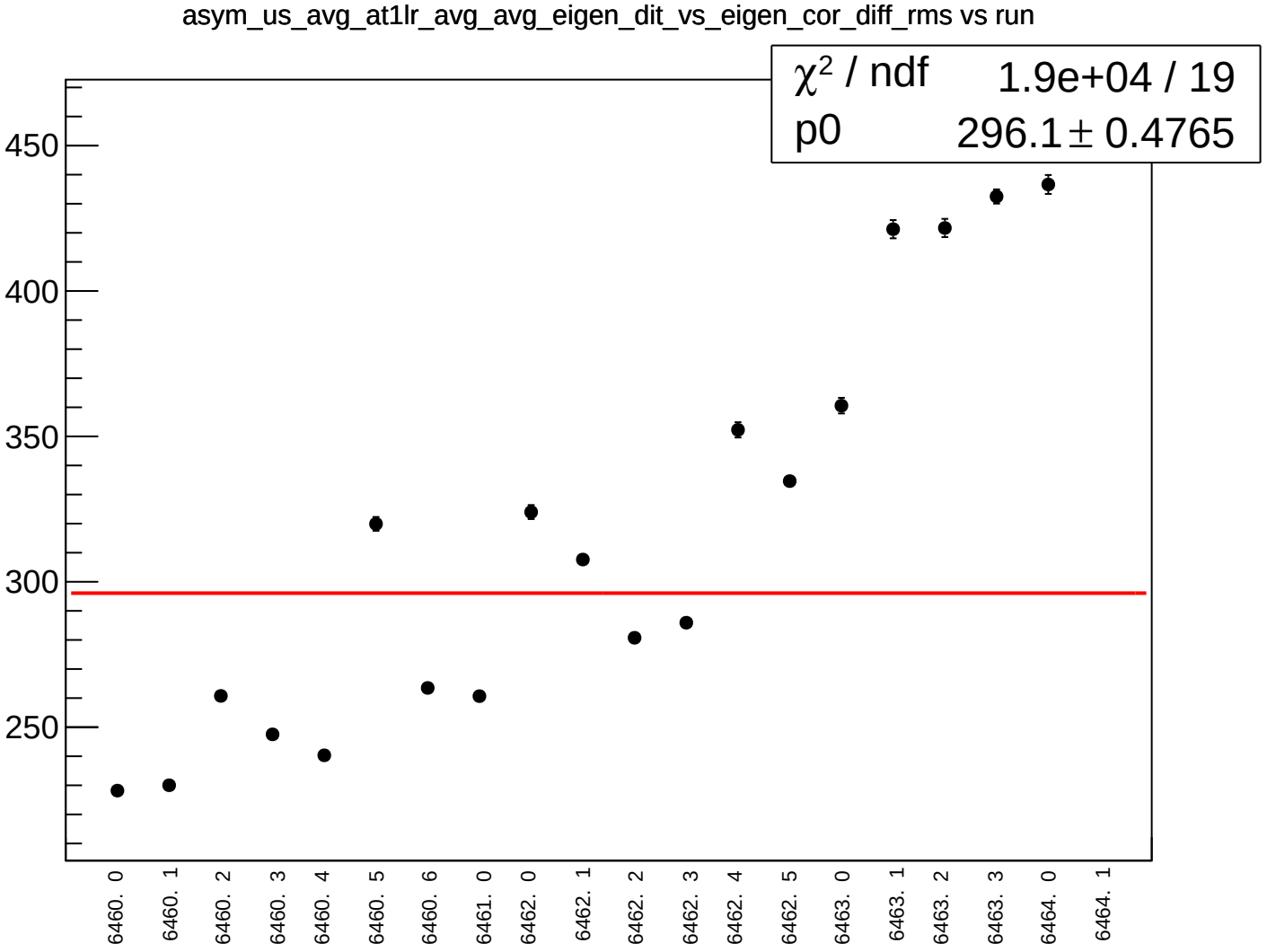

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 445.5 / 19
p0 0.006471 ± 1.017e−05
0.0068
0.0066
0.0064
0.0062
0.006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

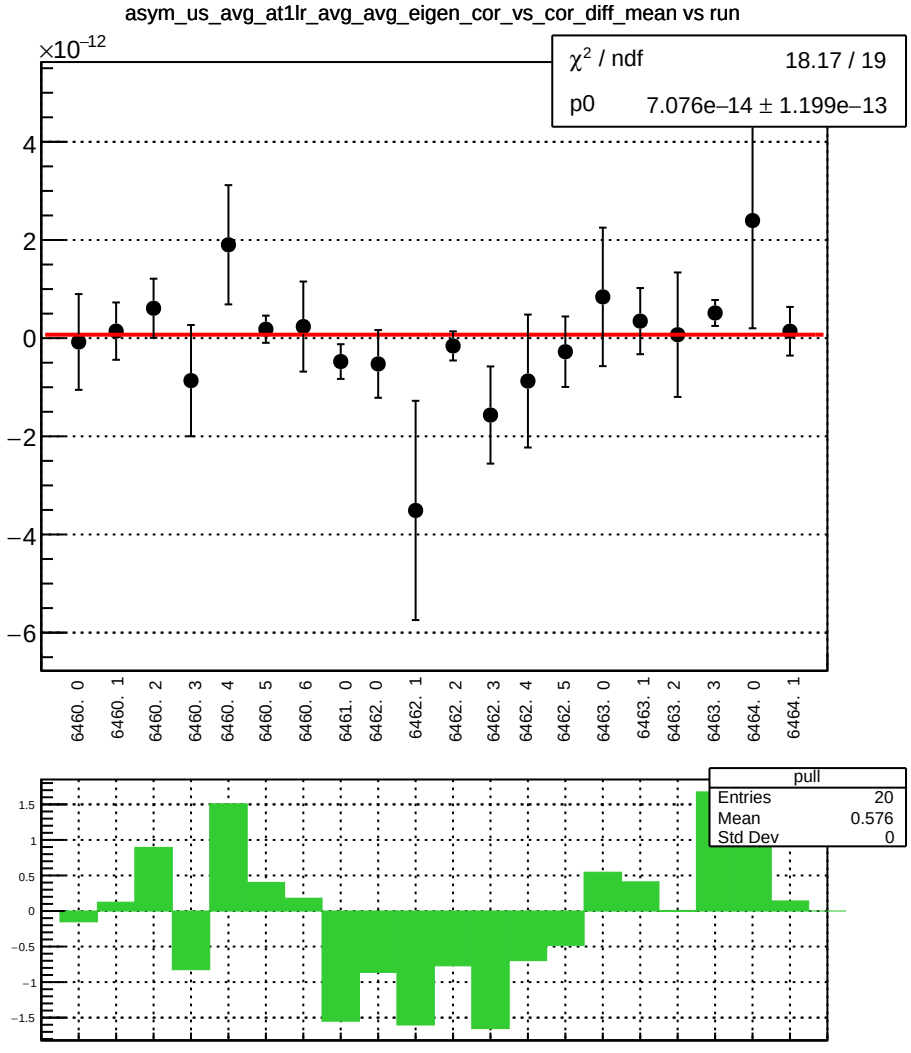

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 10.95 / 19
p0 −0.3692 ± 0.6738
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.508
Std Dev 15.22
1.5
1
0.5
0
−0.5
−1

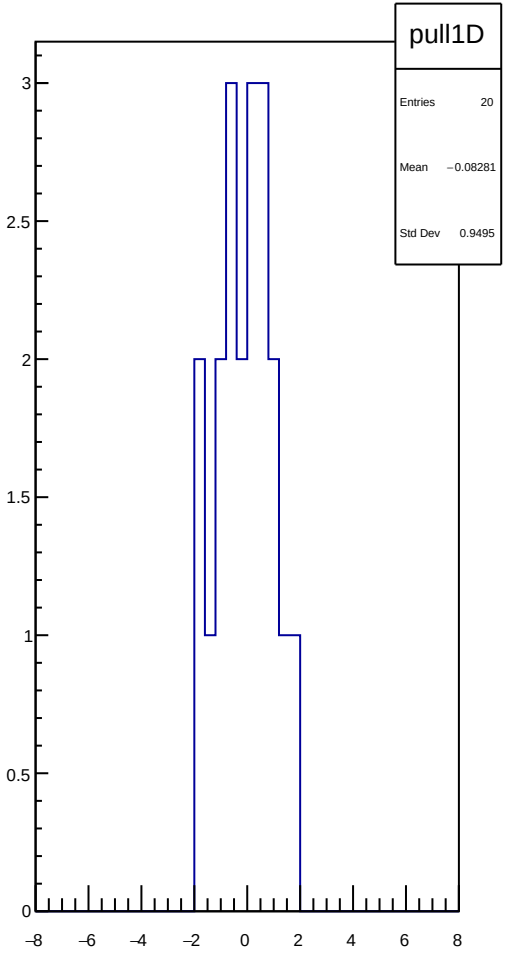

pull1D
Entries 20
Mean 0.02623
Std Dev 0.7394
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

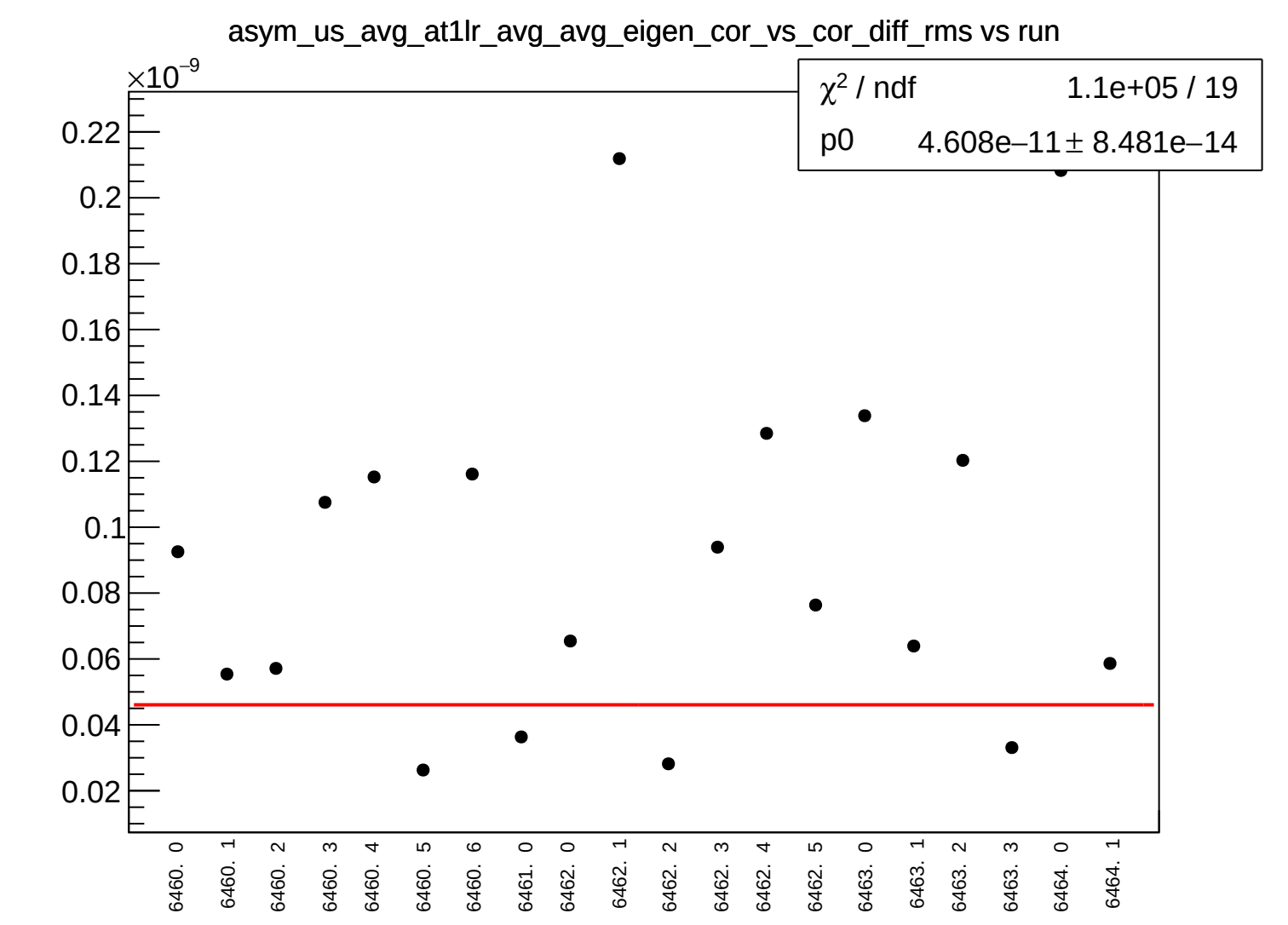

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.9e+04 / 19
p0 296.1 ± 0.4765
450
400
350
300
250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

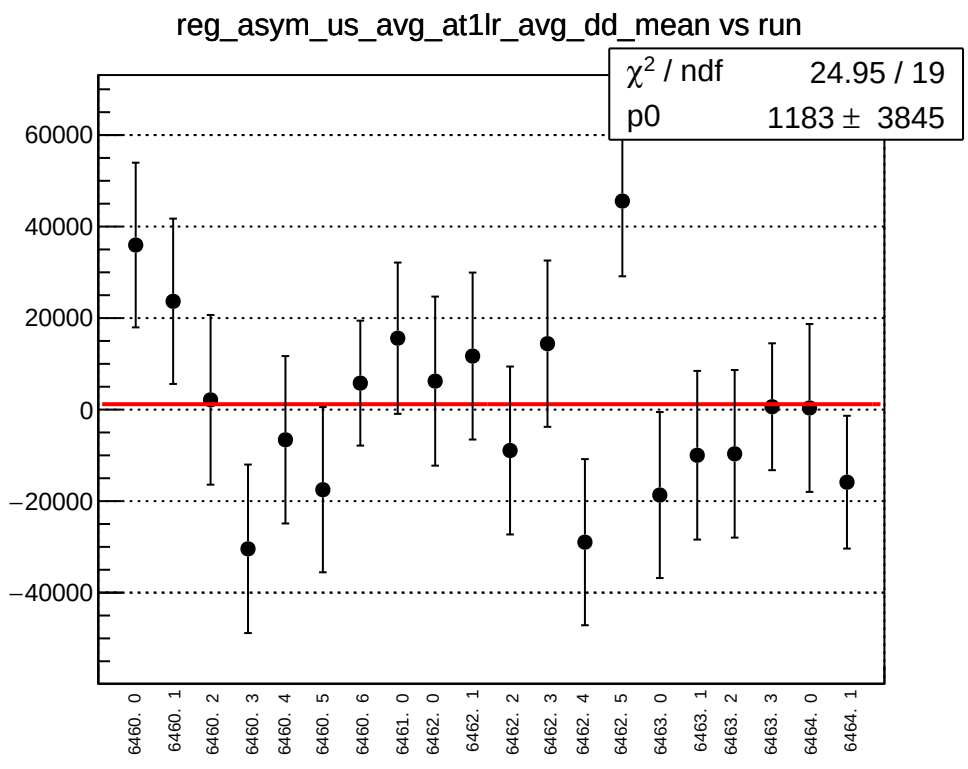

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.95 / 19
p0 −0.3692 ± 0.6738
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.508
Std Dev 15.22
pull1D
Entries 20
Mean 0.02623
Std Dev 0.7394

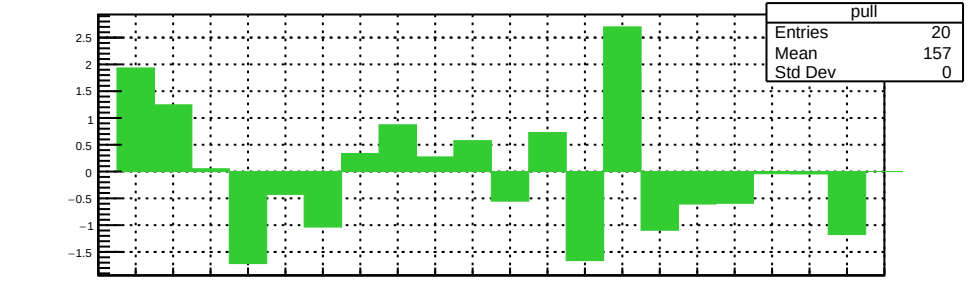

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.9e+04 / 19
p0 296.1 ± 0.4765
450
400
350
300
250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

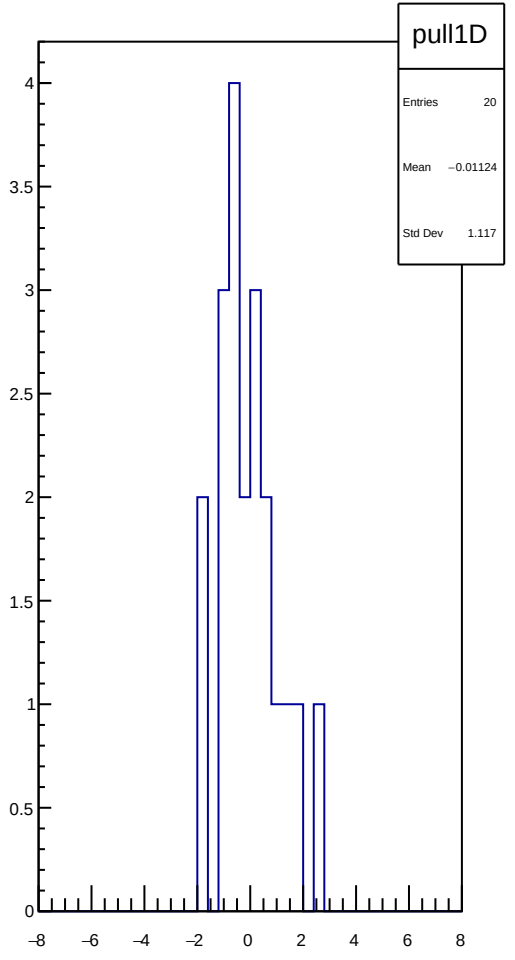

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.17 / 19
p0 7.076e−14 ± 1.199e−13
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 0.576
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

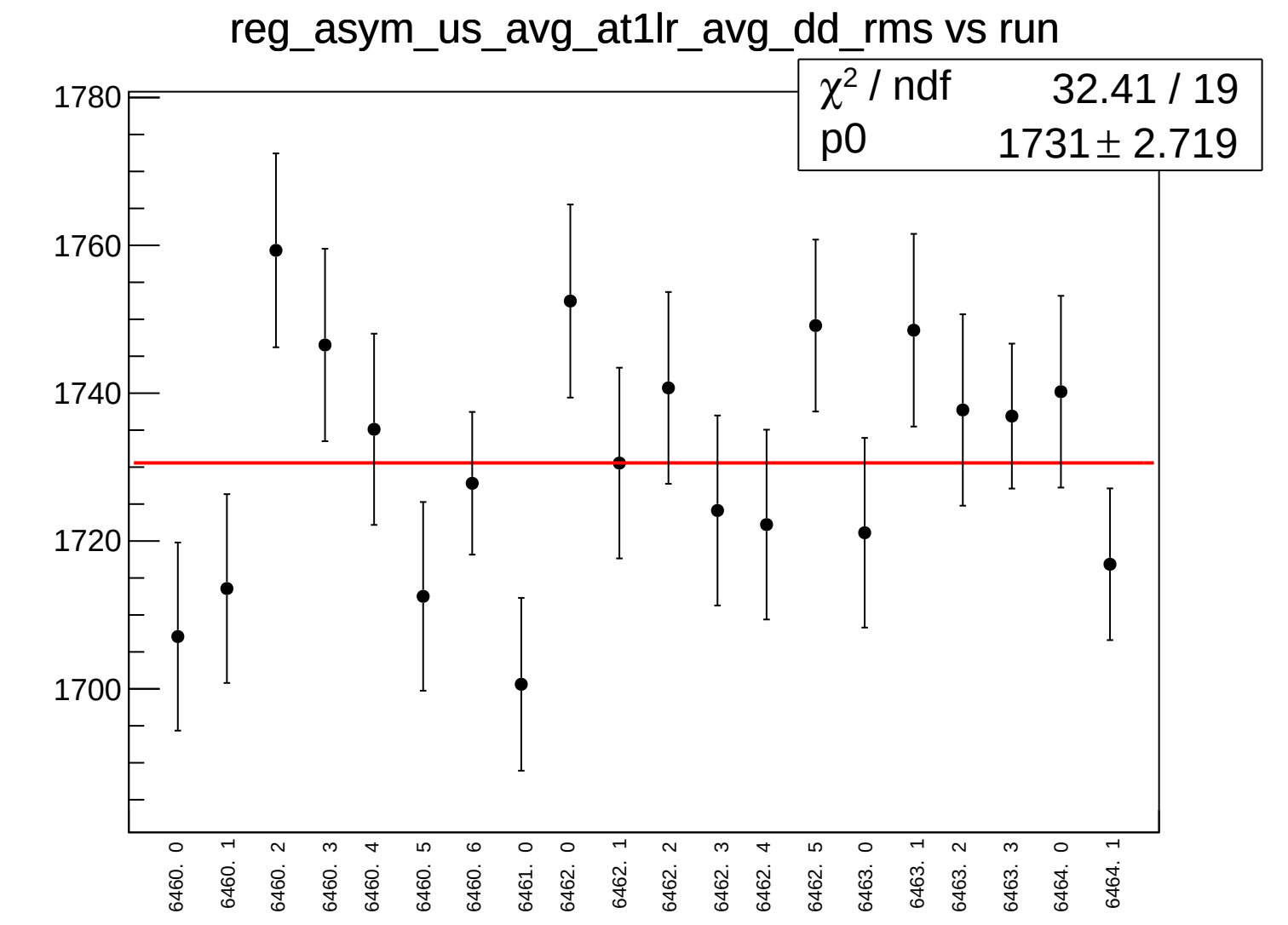

pull1D
Entries 20
Mean −0.08281
Std Dev 0.9495
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

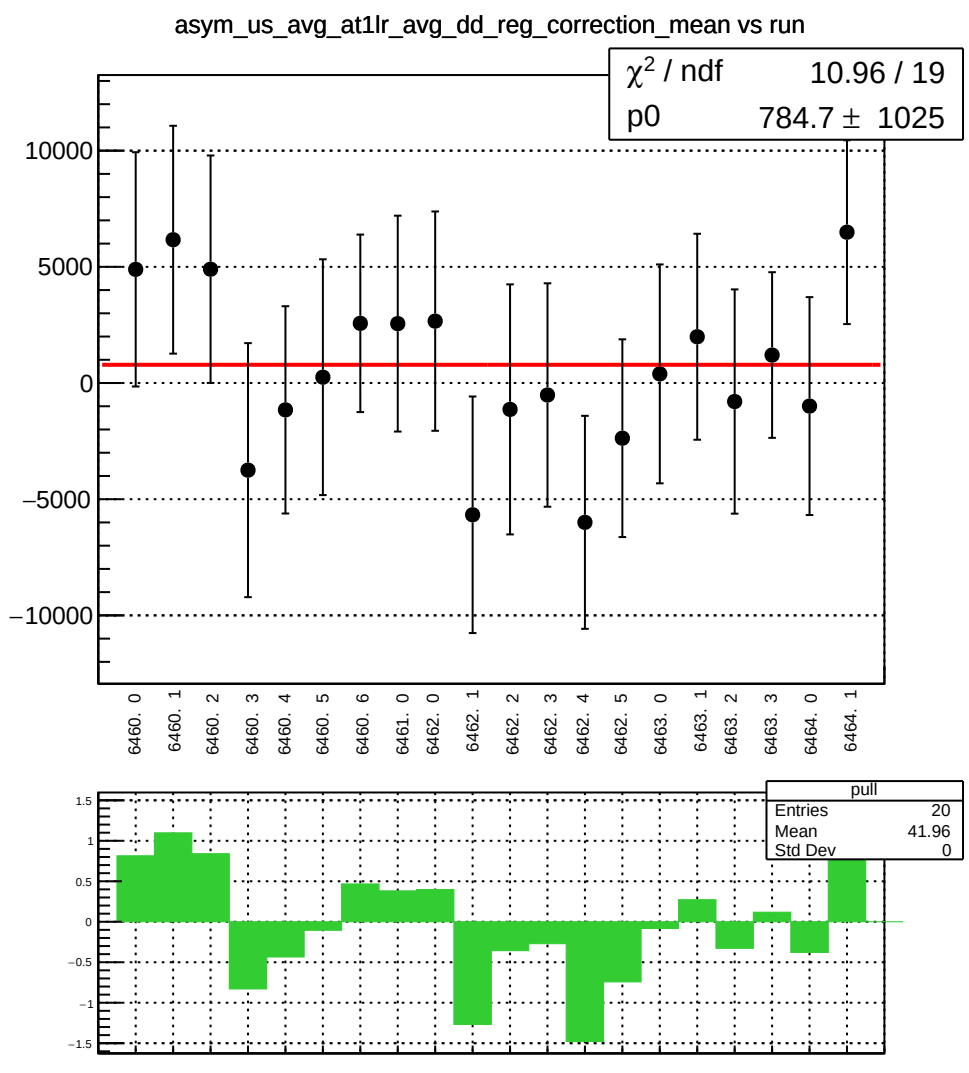

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.1e+05 / 19
p0 4.608e−11 ± 8.481e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

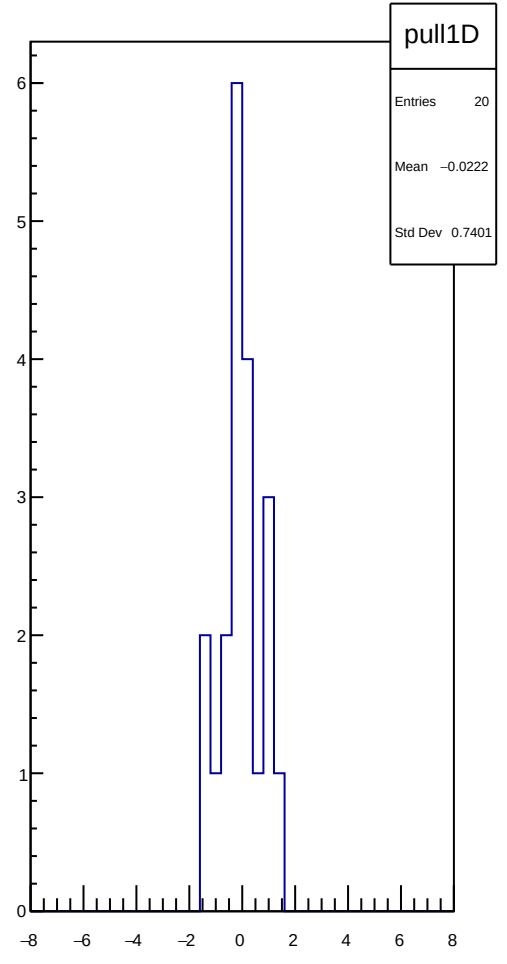

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 24.95 / 19
p0 1183 ± 3845
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

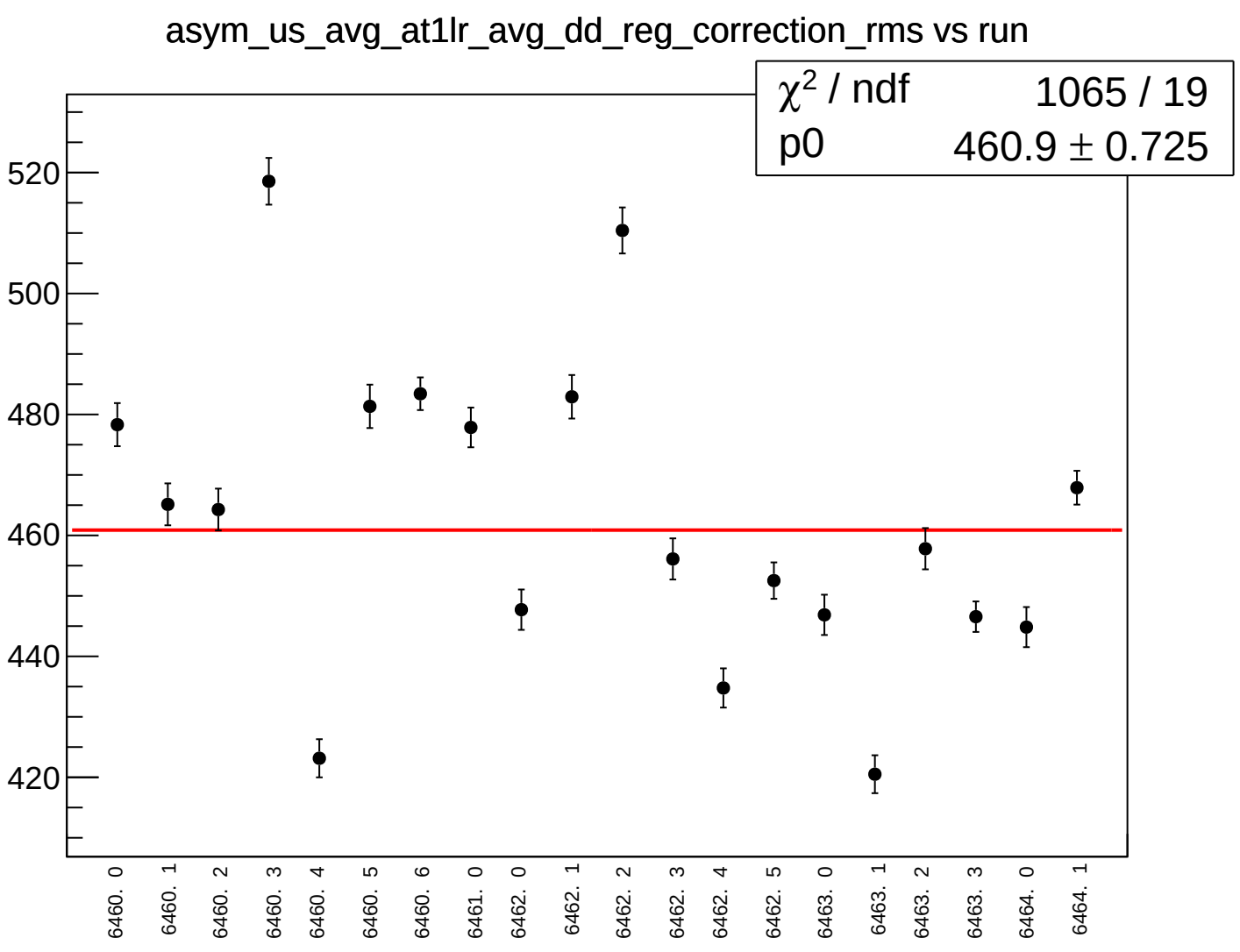

pull
Entries 20
Mean 157
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

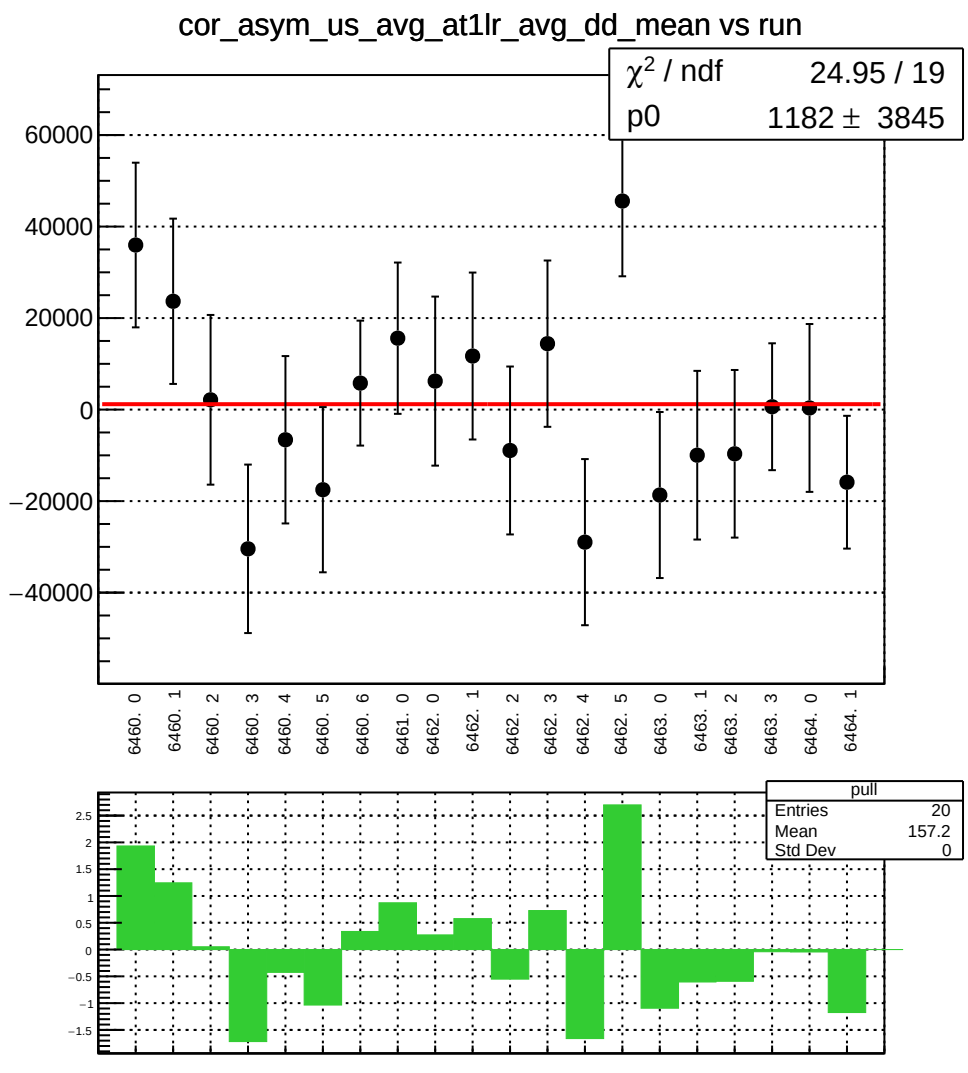

pull1D
Entries 20
Mean −0.01124
Std Dev 1.117
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

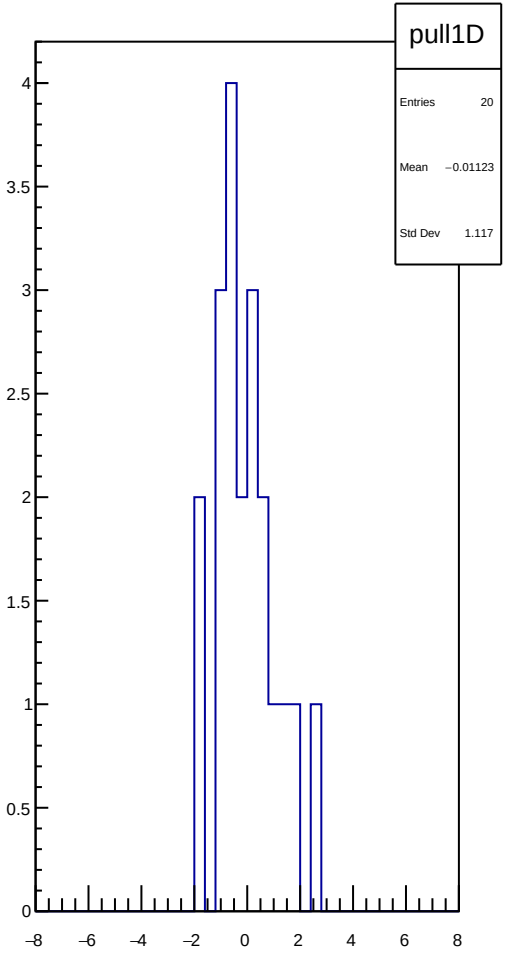

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 32.41 / 19
p0 1731 ± 2.719
1780
1760
1740
1720
1700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

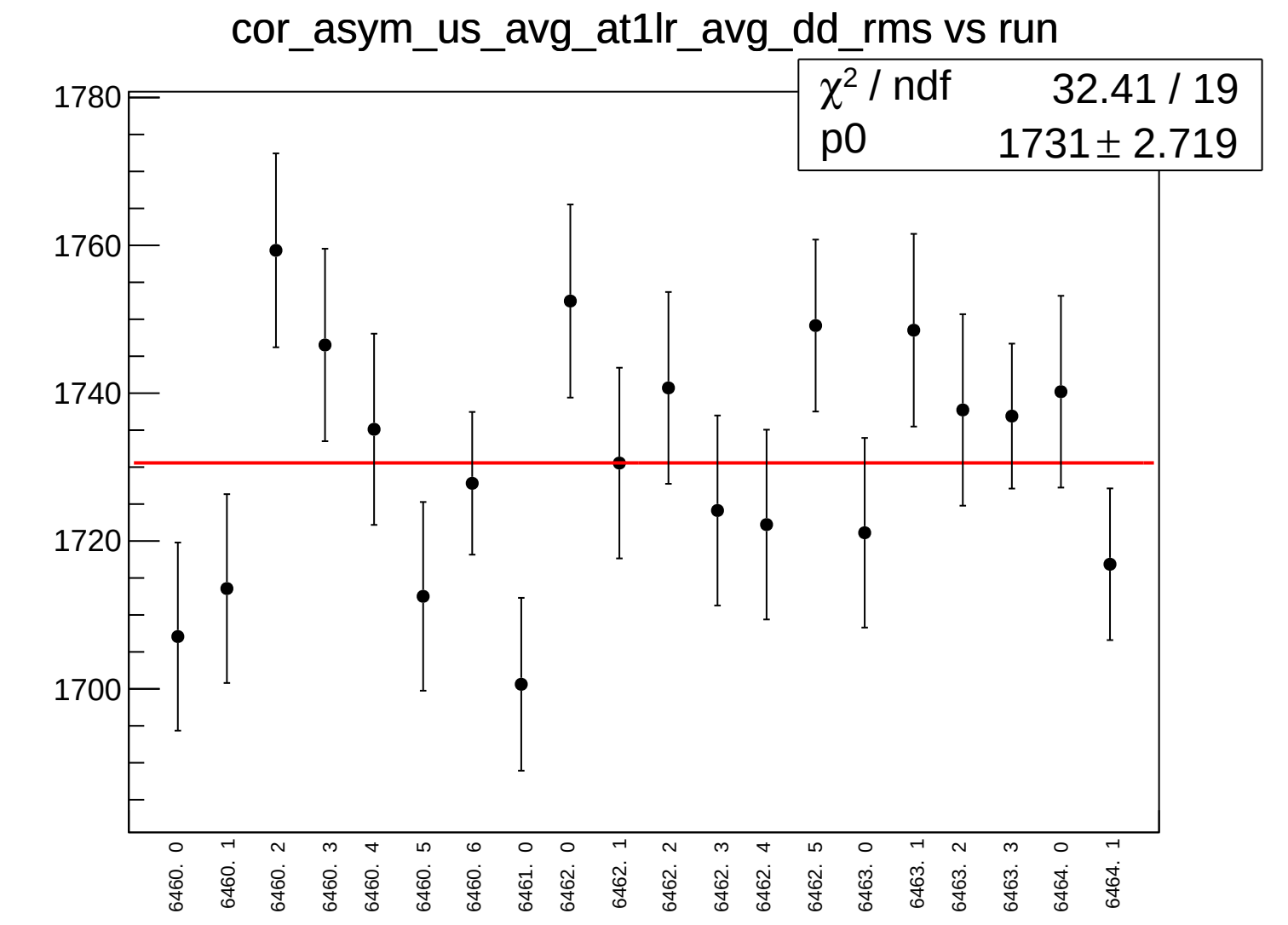

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 10.96 / 19
p0 784.7 ± 1025
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 41.96
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

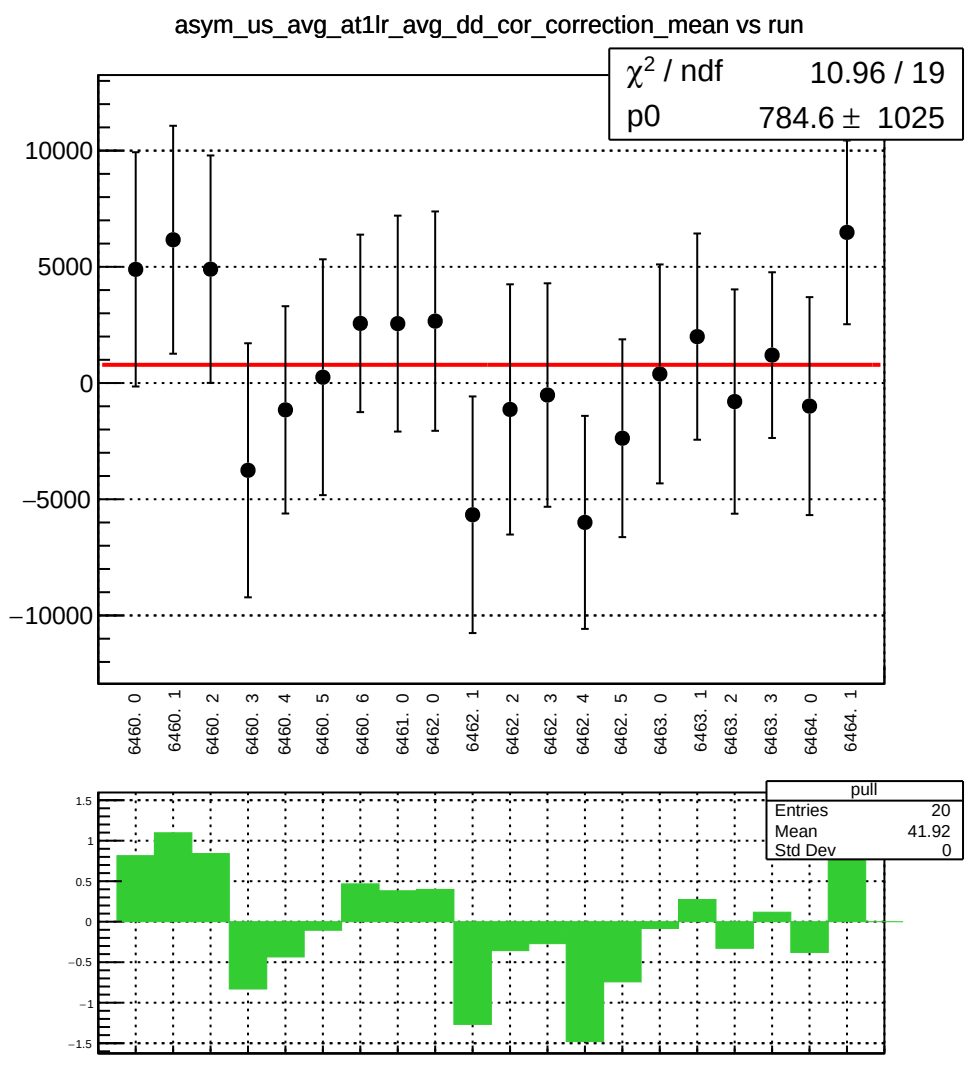

pull1D
Entries 20
Mean −0.0222
Std Dev 0.7401
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

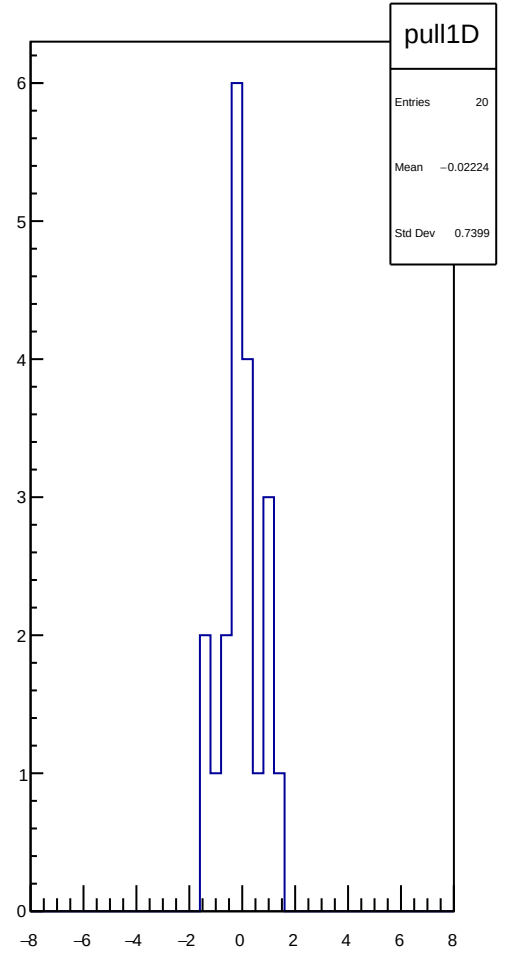

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1065 / 19
p0 460.9 ± 0.725
520
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

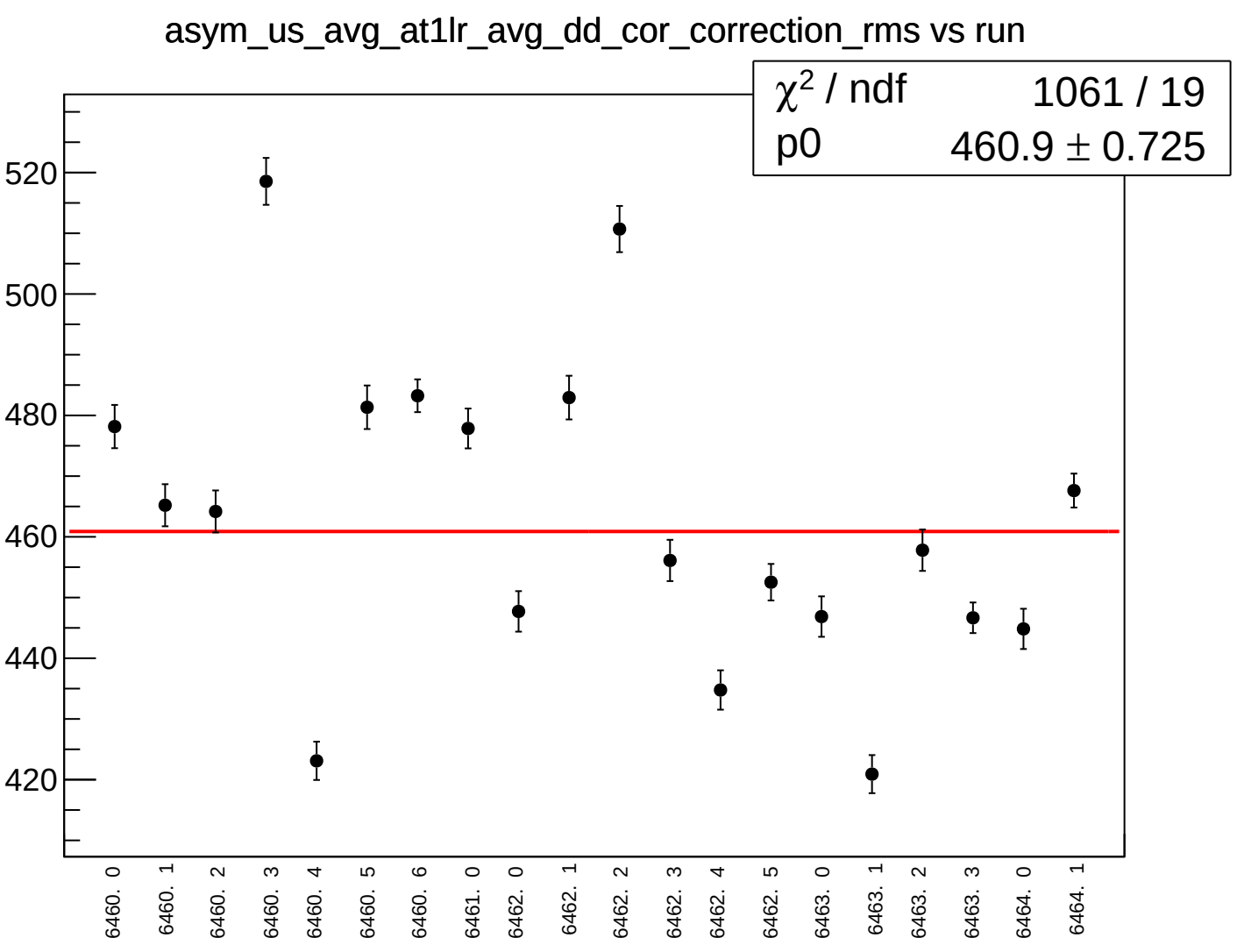

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 24.95 / 19
p0 1182 ± 3845
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 157.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

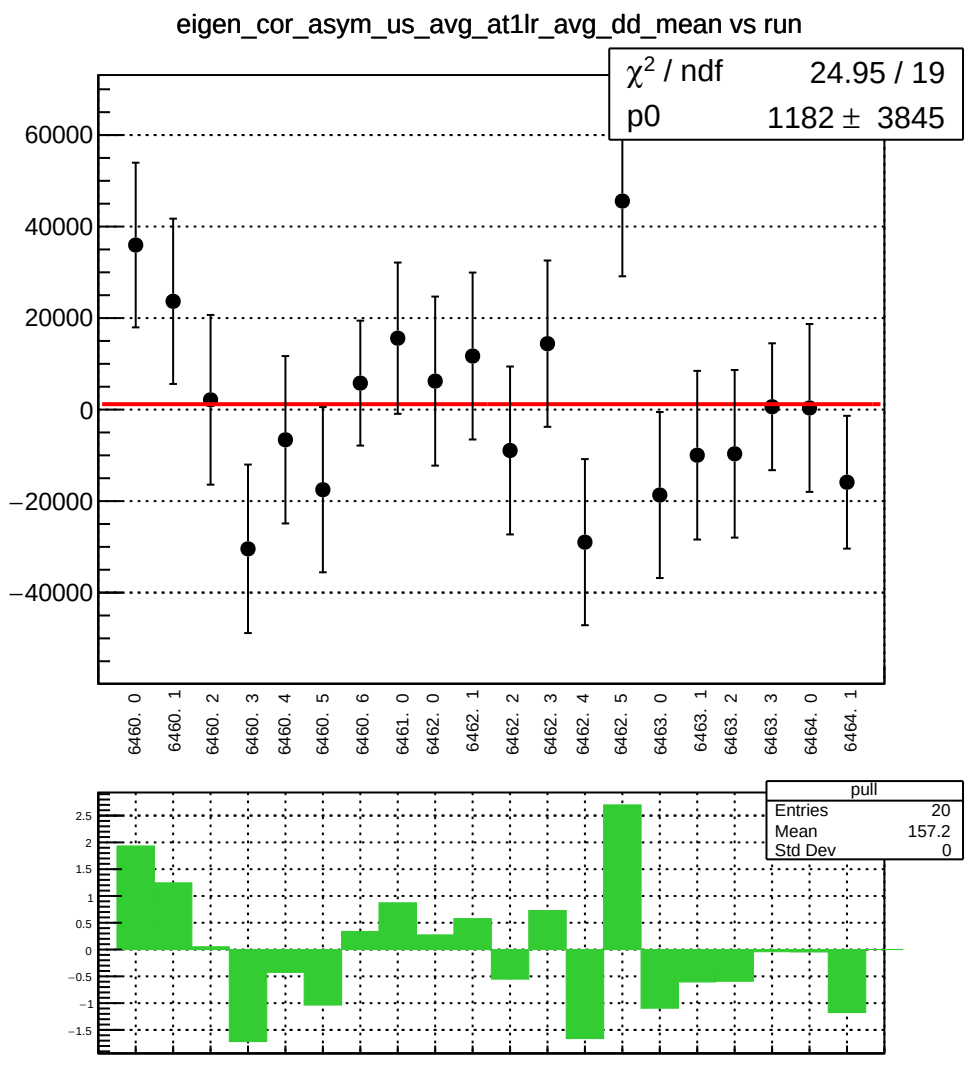

pull1D
Entries 20
Mean −0.01123
Std Dev 1.117
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

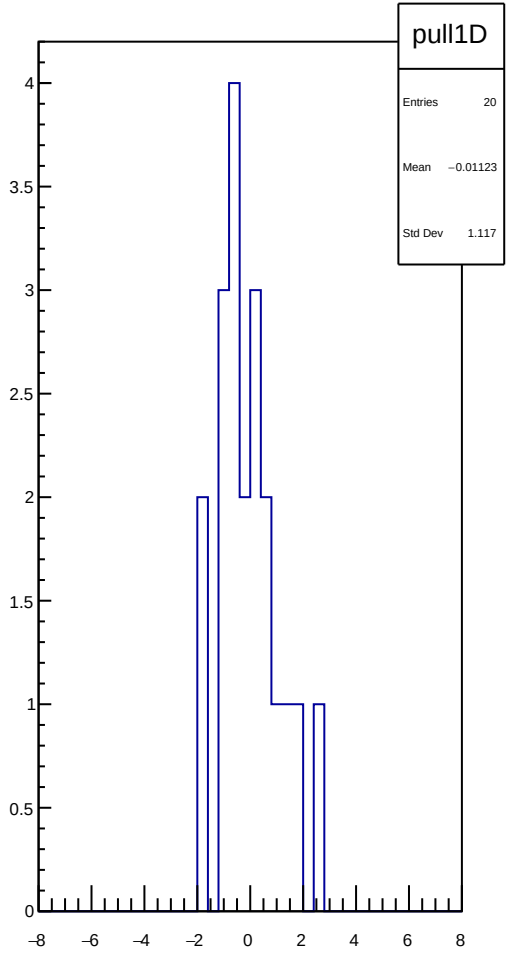

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 32.41 / 19
p0 1731 ± 2.719
1780
1760
1740
1720
1700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

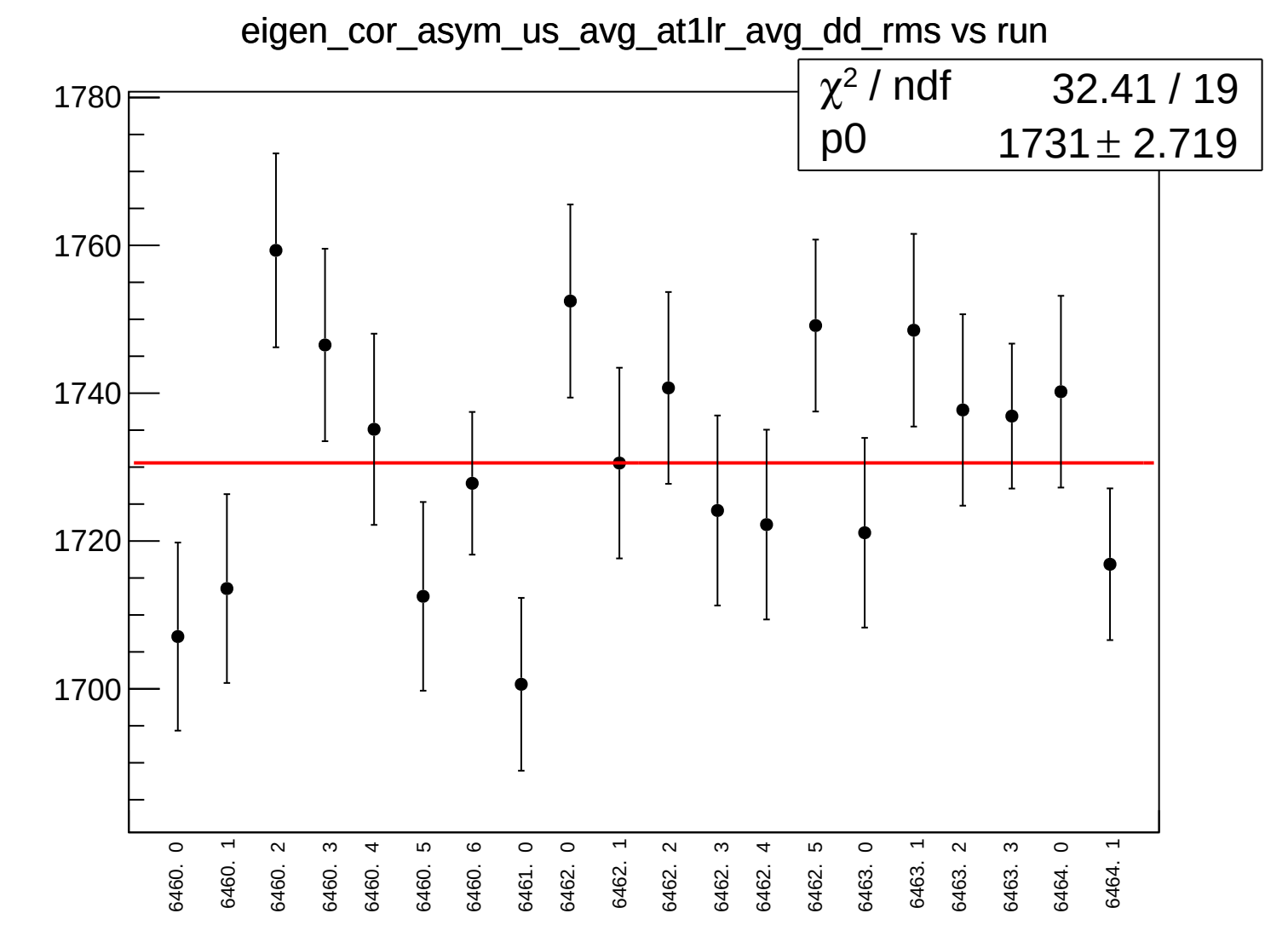

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 10.96 / 19
p0 784.6 ± 1025
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 41.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

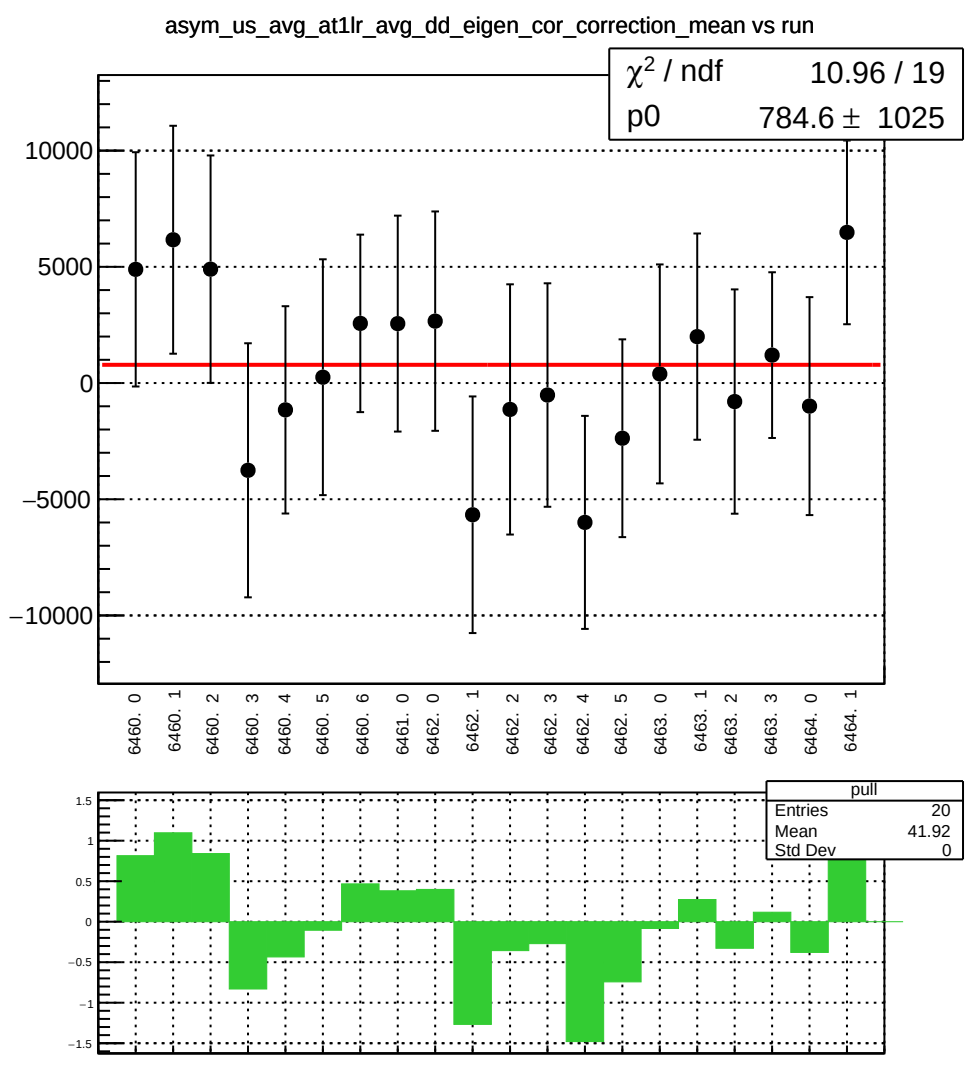

pull1D
Entries 20
Mean −0.02224
Std Dev 0.7399
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

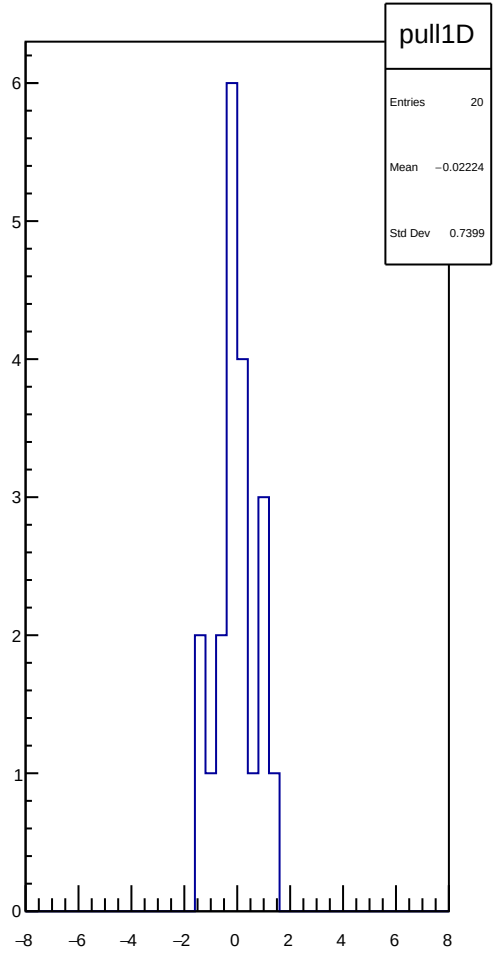

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1061 / 19
p0 460.9 ± 0.725
520
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

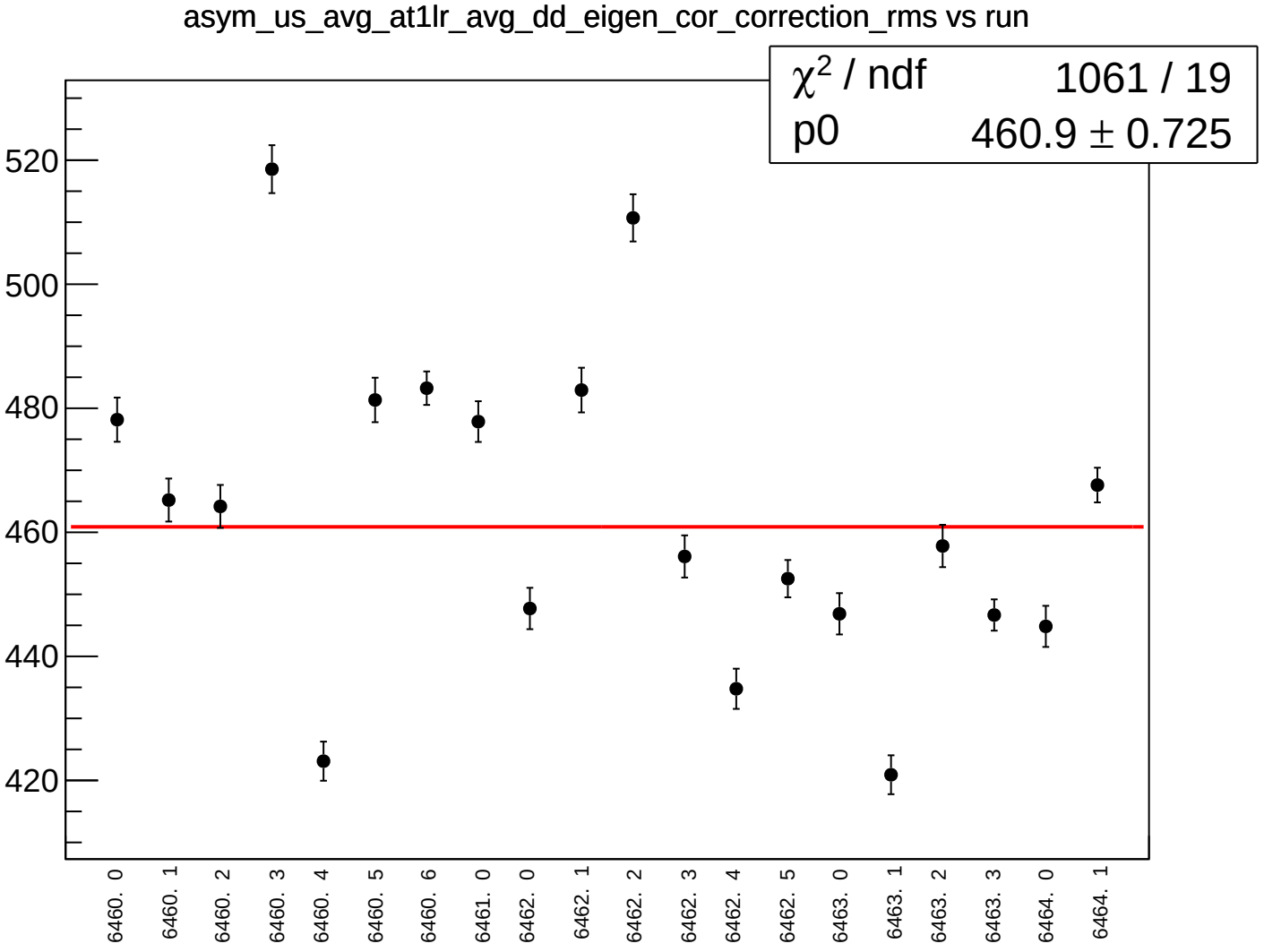

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 24.95 / 19
p0 1182 ± 3845
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 157.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

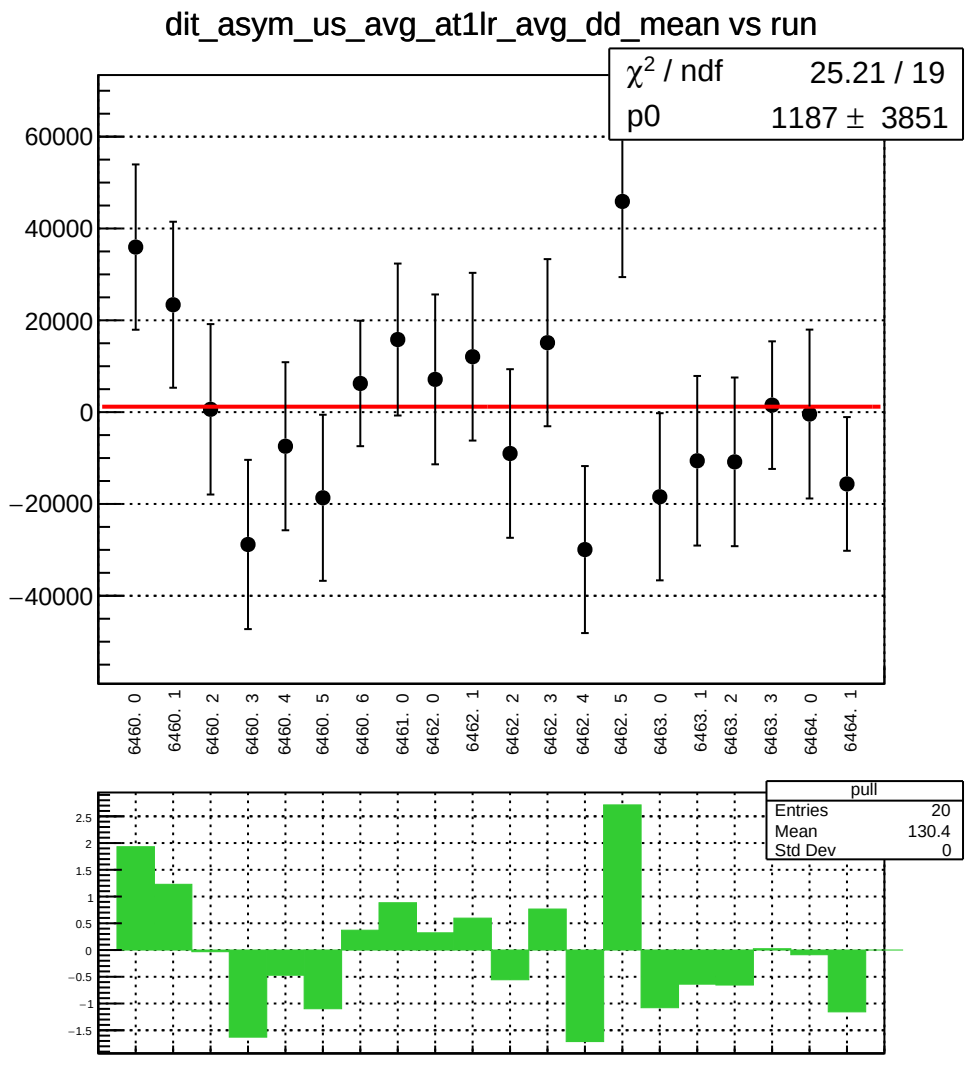

pull1D
Entries 20
Mean −0.01123
Std Dev 1.117
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

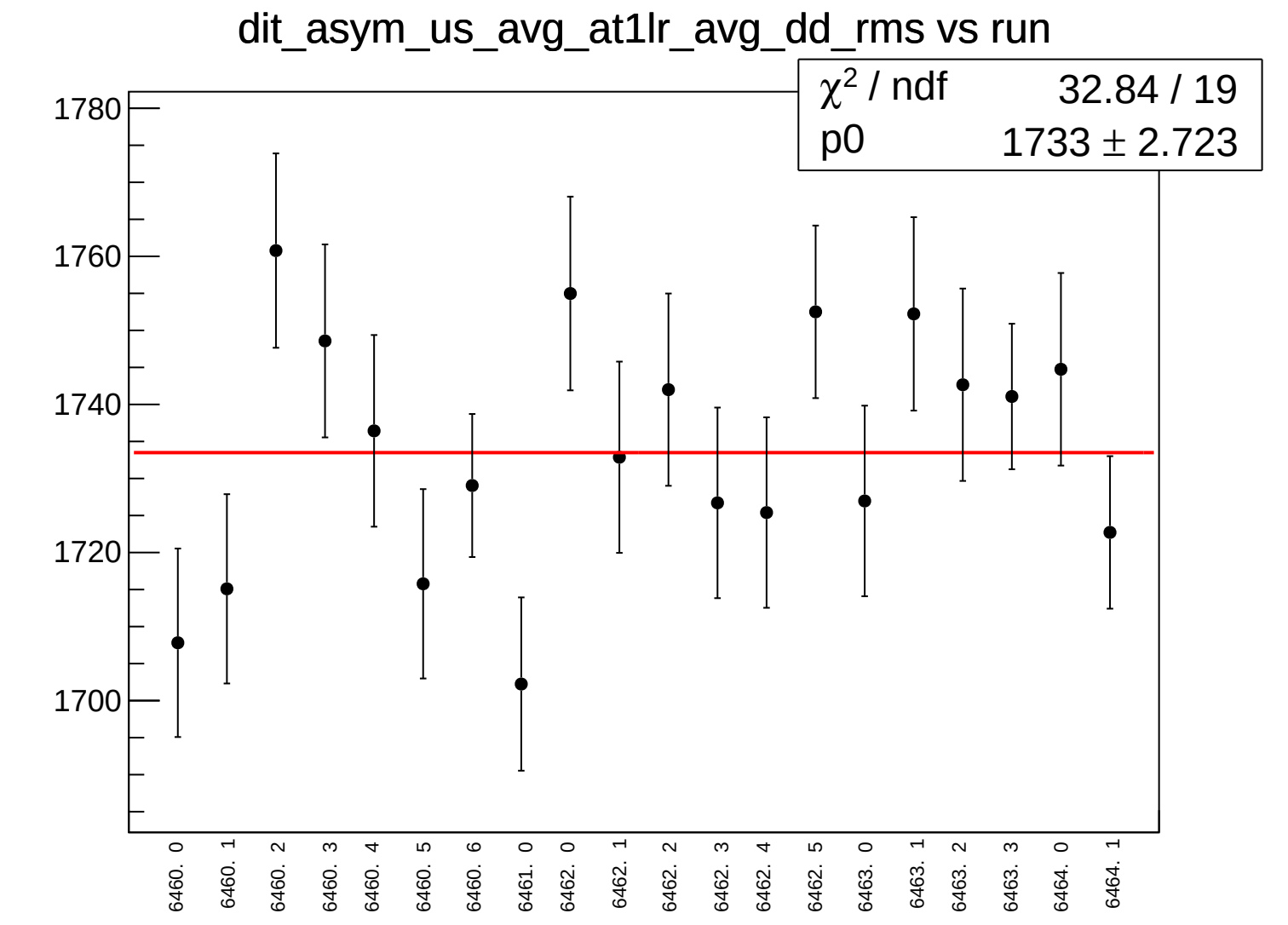

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 32.41 / 19
p0 1731 ± 2.719
1780
1760
1740
1720
1700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

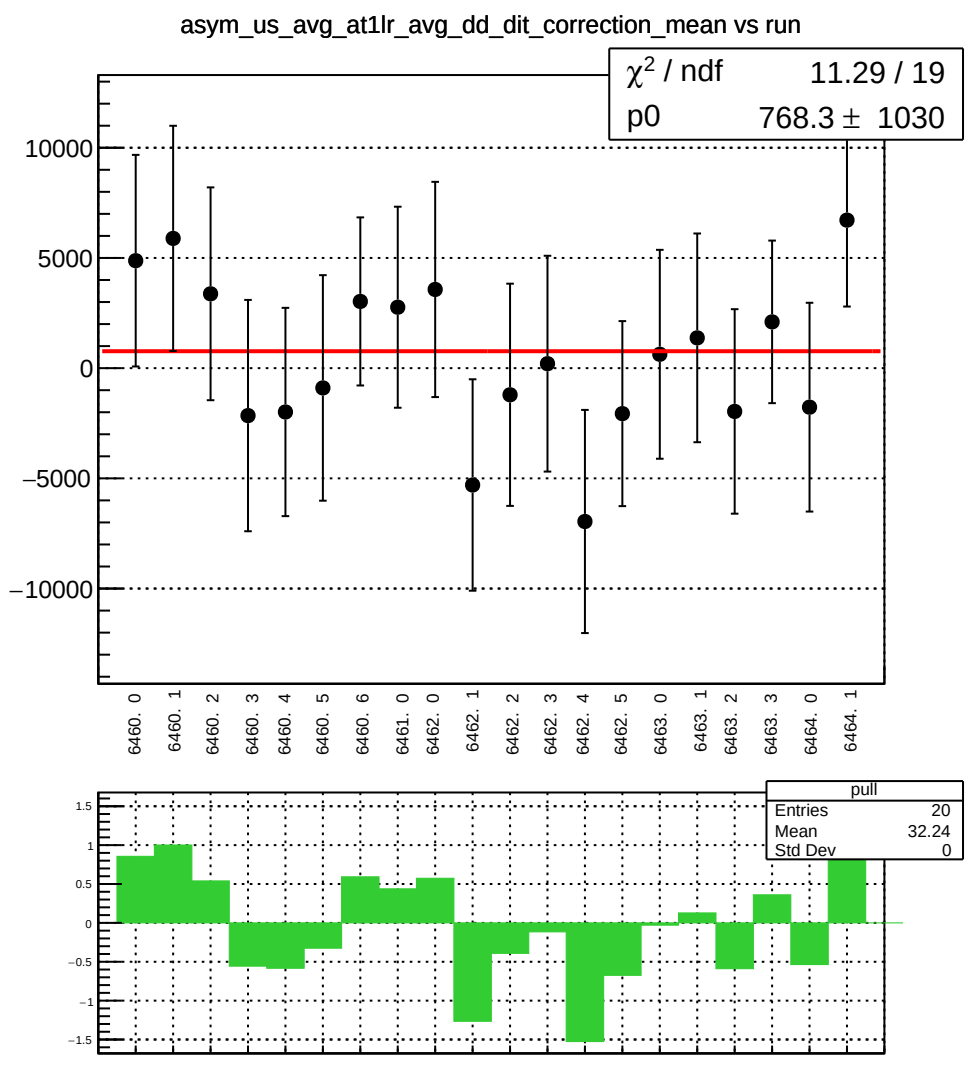

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 10.96 / 19
p0 784.6 ± 1025
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 41.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

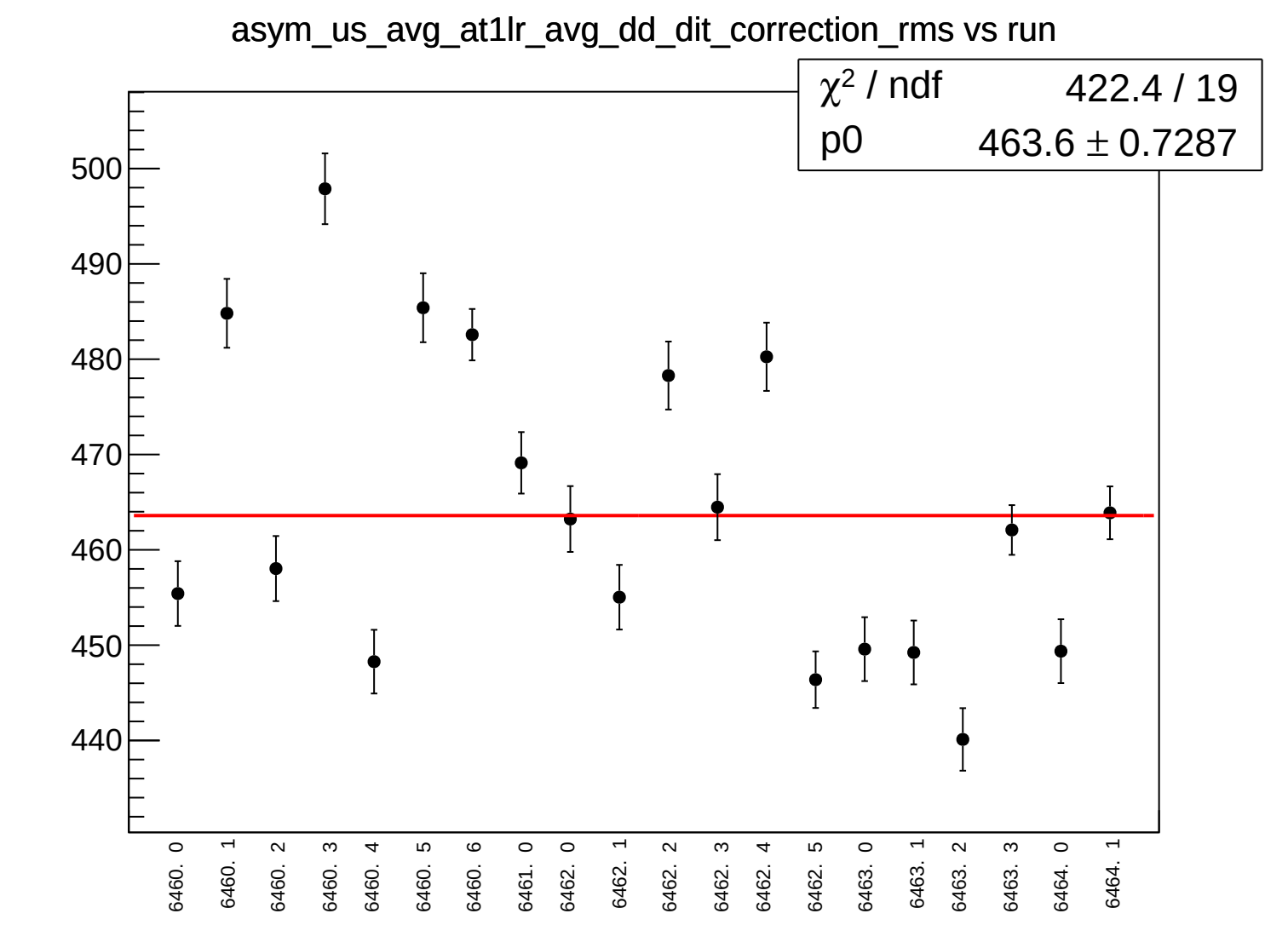

pull1D
Entries 20
Mean −0.02224
Std Dev 0.7399
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

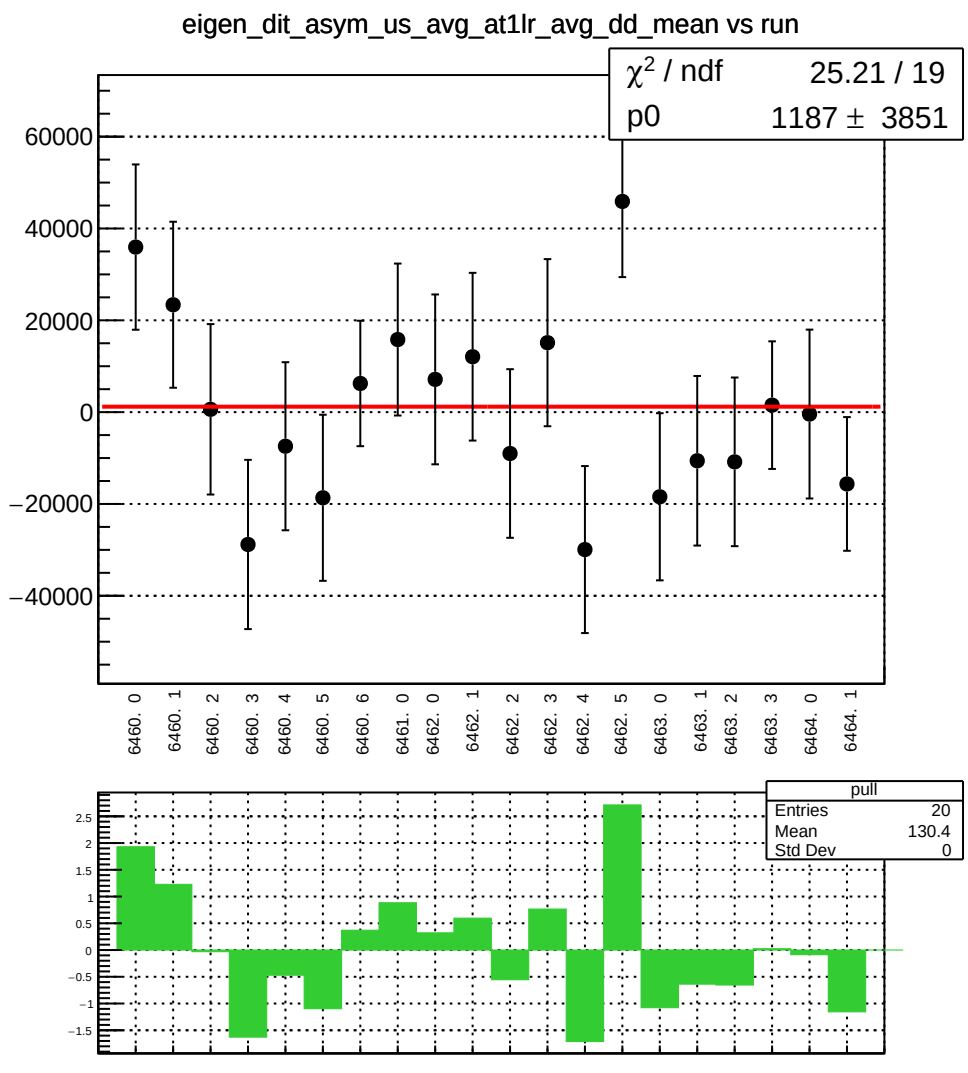

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1061 / 19
p0 460.9 ± 0.725
520
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

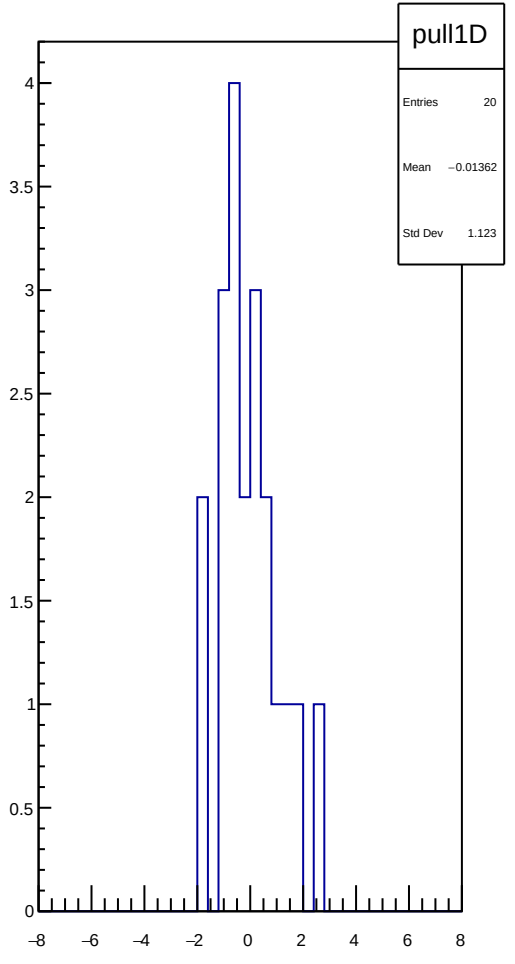

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 25.21 / 19
p0 1187 ± 3851
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 130.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01362
Std Dev 1.123
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

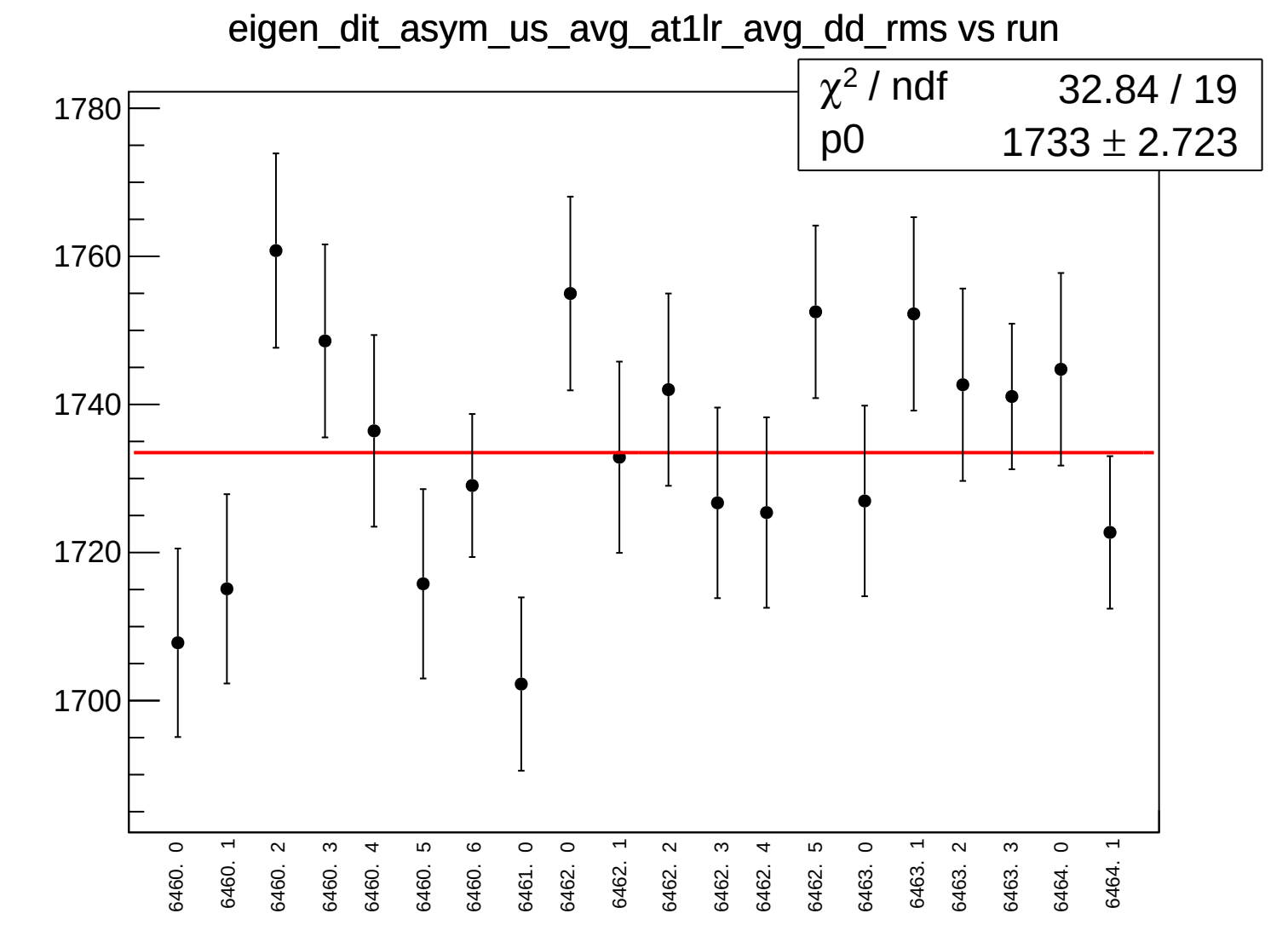

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 32.84 / 19
p0 1733 ± 2.723
1780
1760
1740
1720
1700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

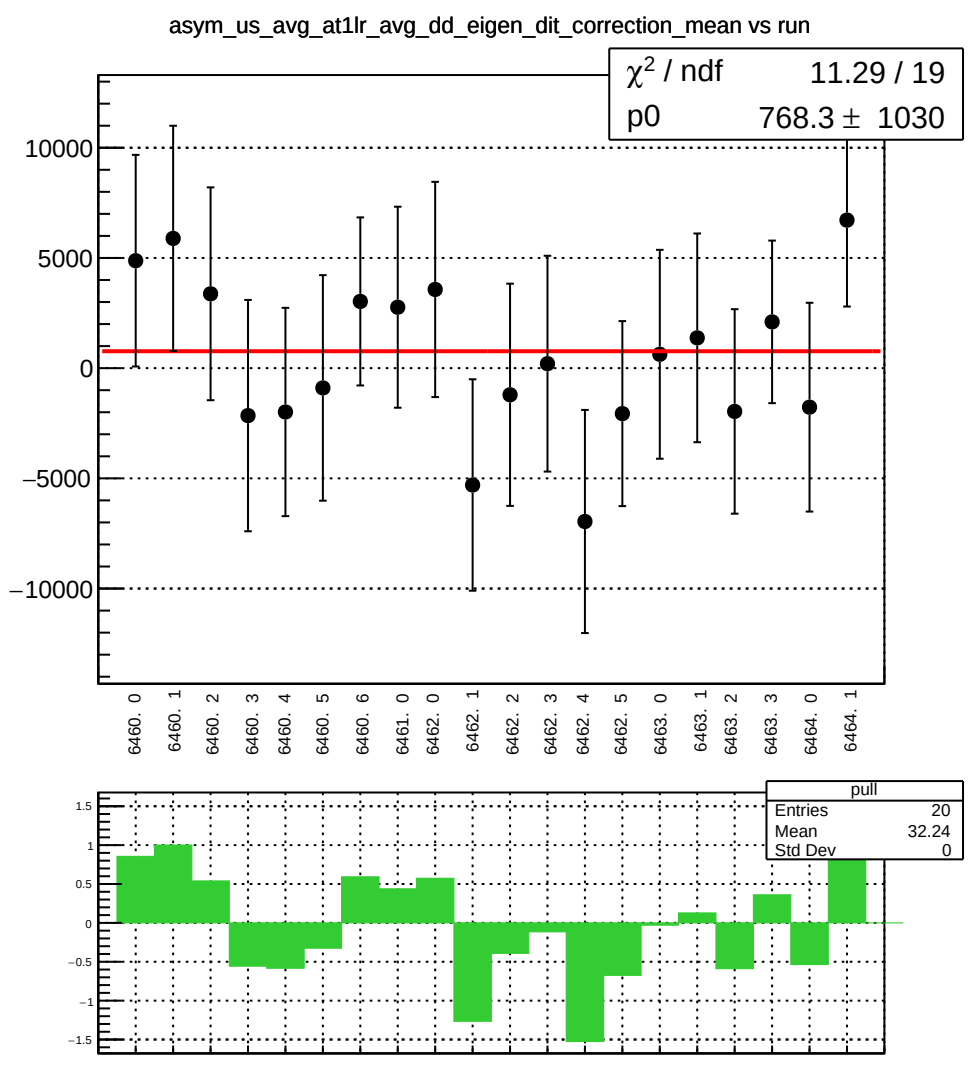

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 11.29 / 19
p0 768.3 ± 1030
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0293
Std Dev 0.7508
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

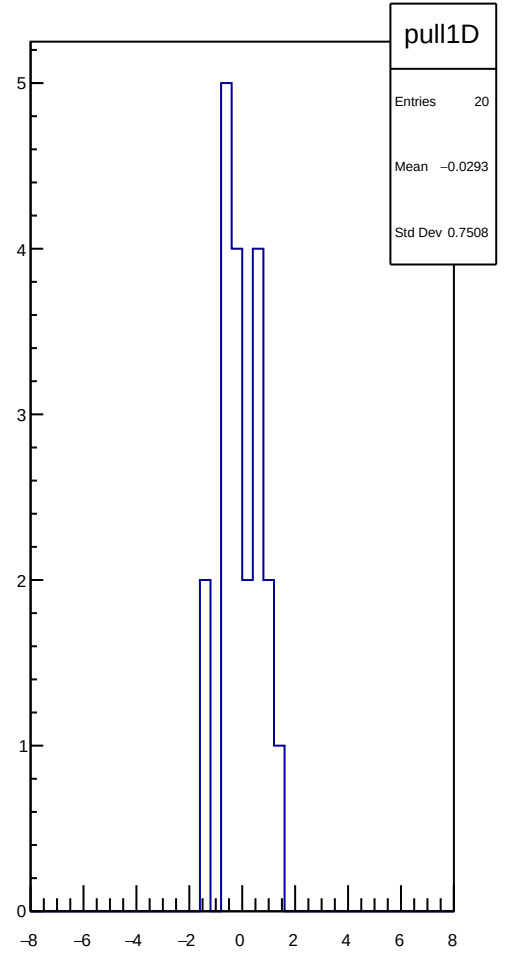

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 422.4 / 19
p0 463.6 ± 0.7287
500
490
480
470
460
450
440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

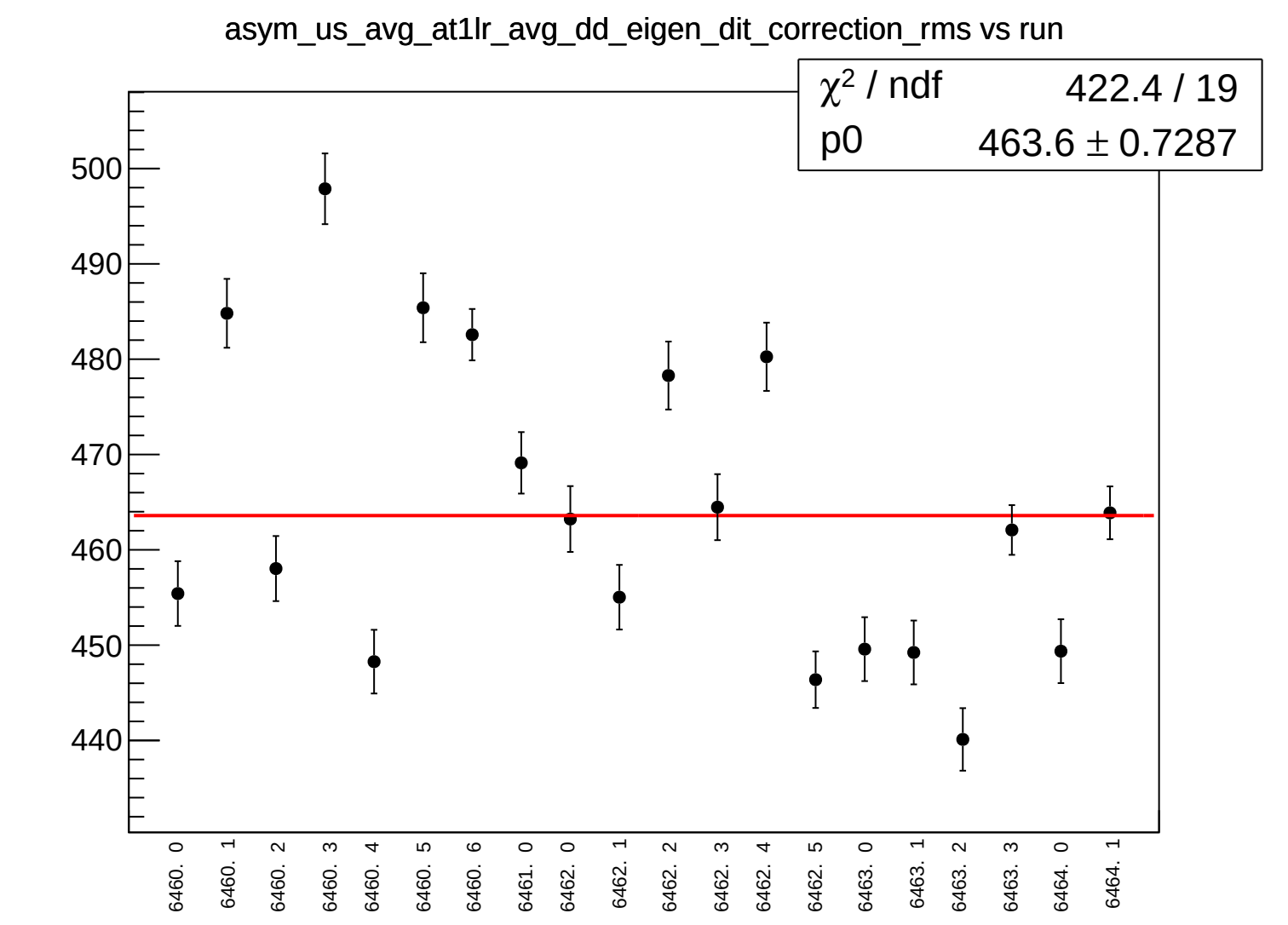

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 25.21 / 19
p0 1187 ± 3851
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 130.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

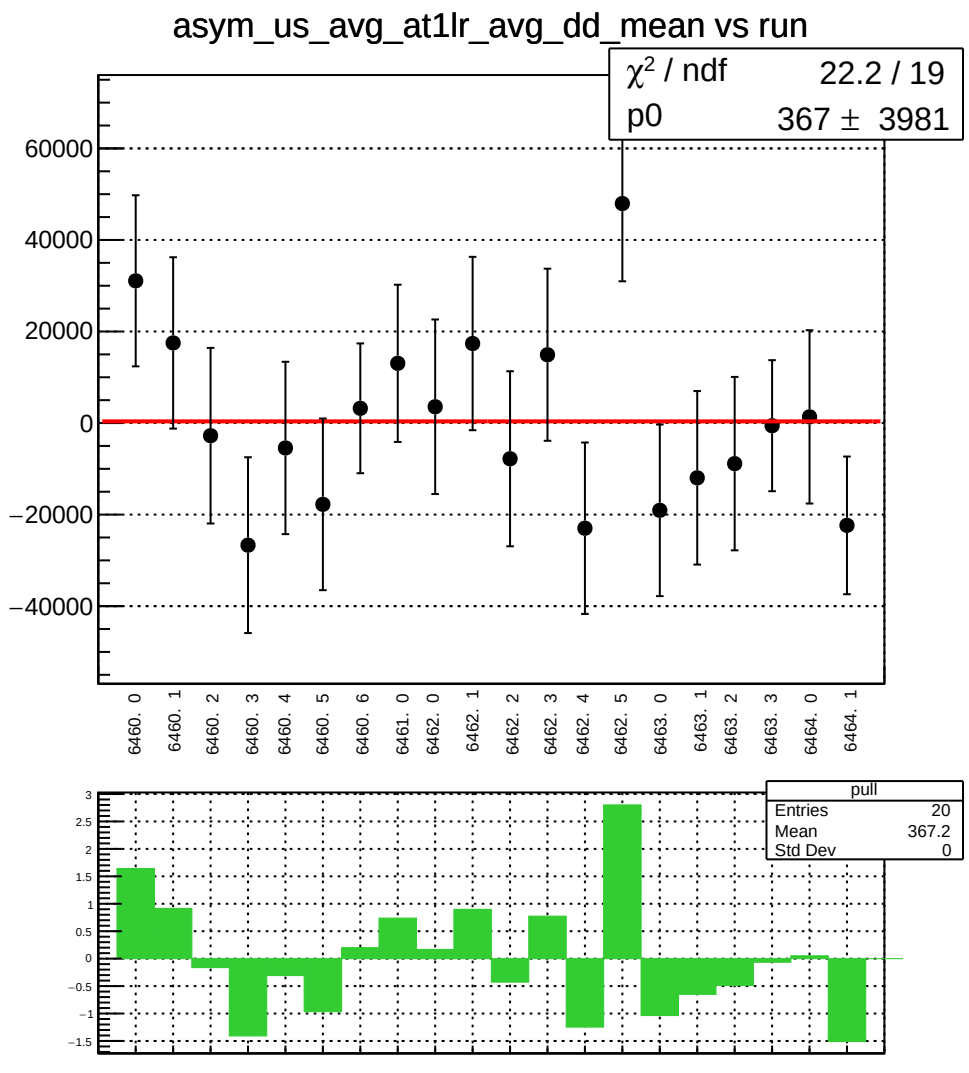

pull1D
Entries 20
Mean −0.01362
Std Dev 1.123
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

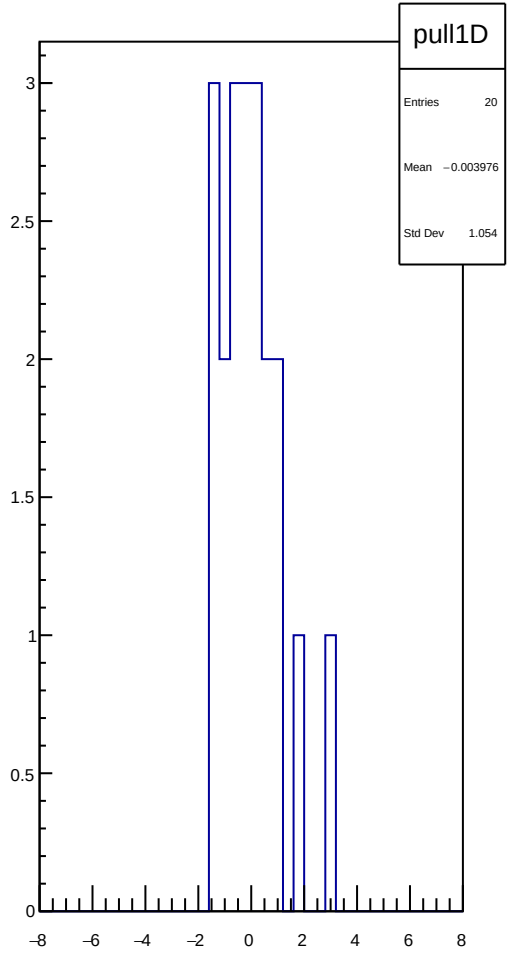

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 32.84 / 19
p0 1733 ± 2.723
1780
1760
1740
1720
1700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

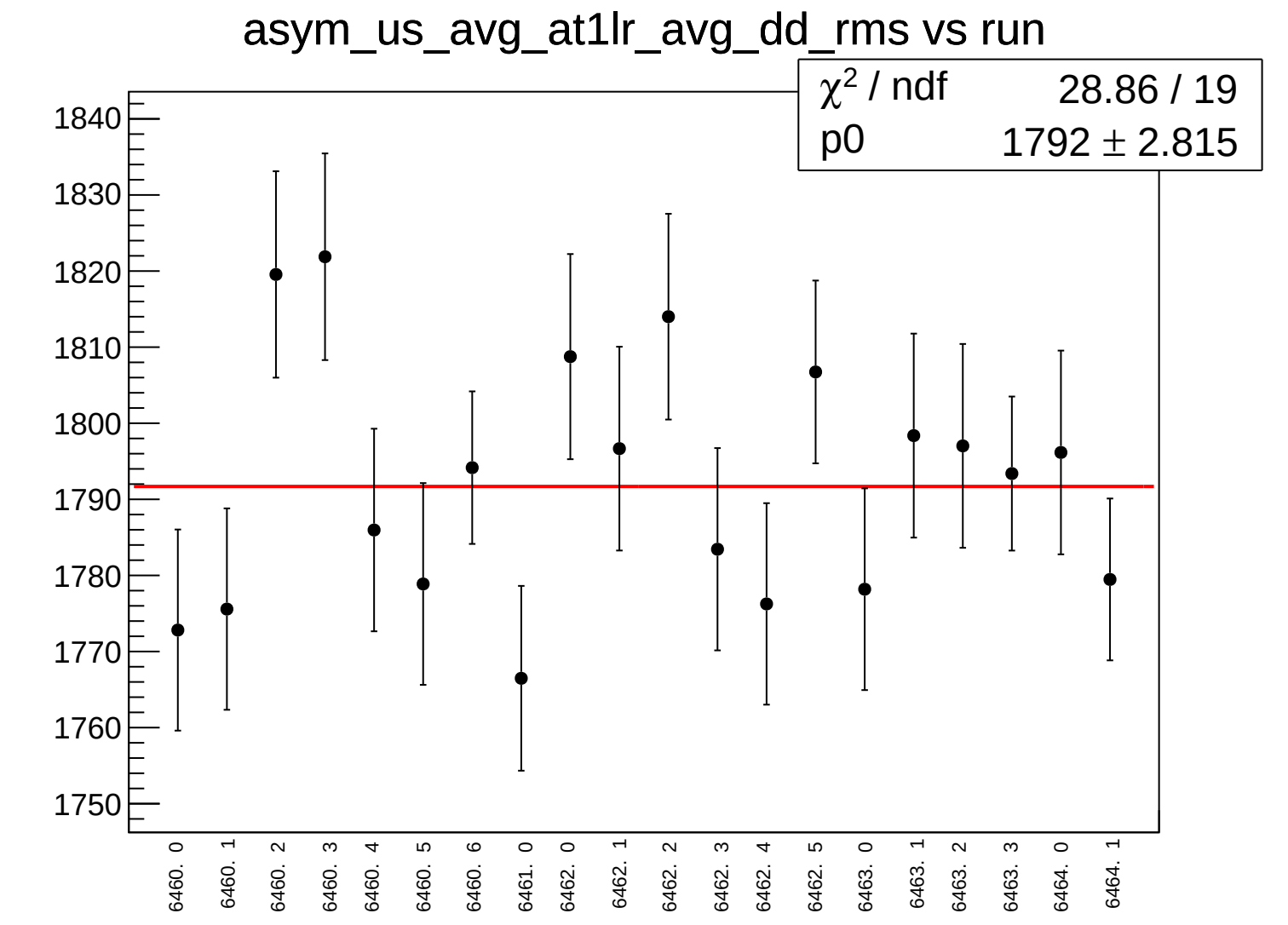

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 11.29 / 19
p0 768.3 ± 1030
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

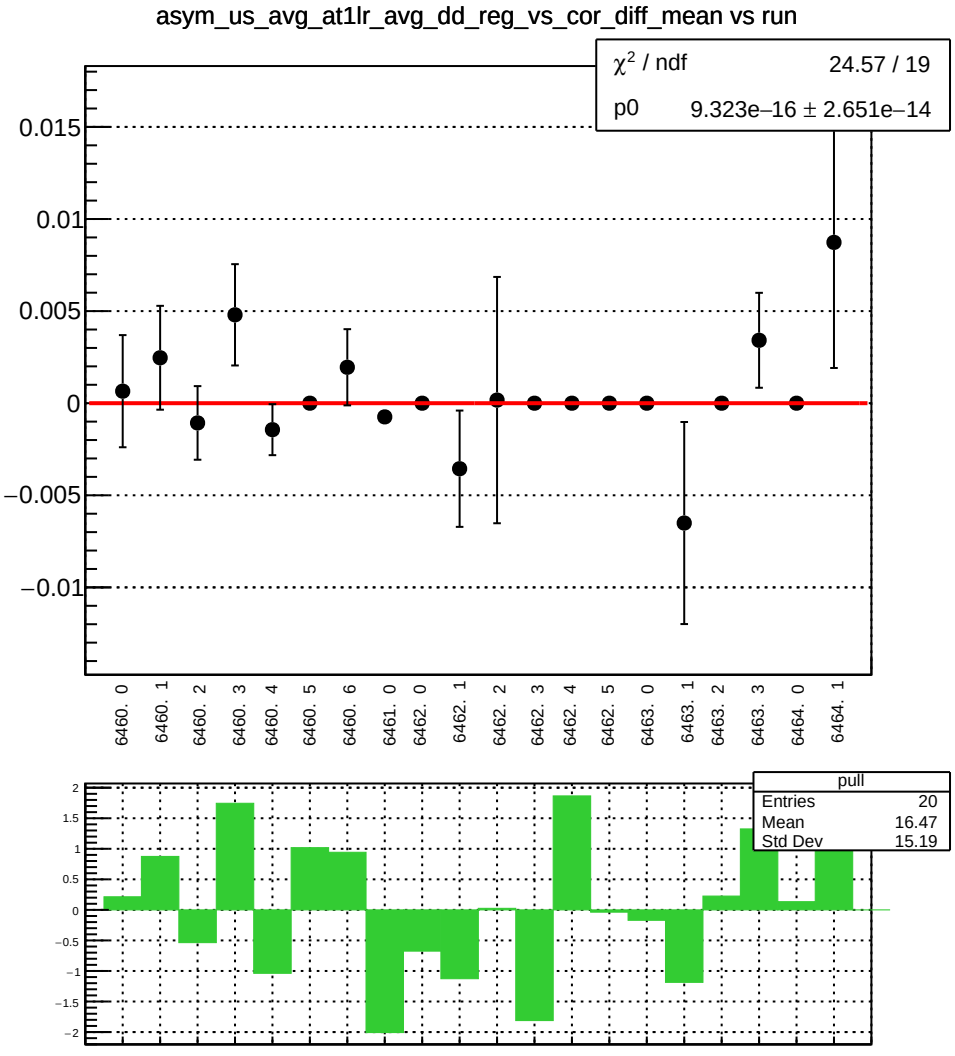

pull1D
Entries 20
Mean −0.0293
Std Dev 0.7508
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

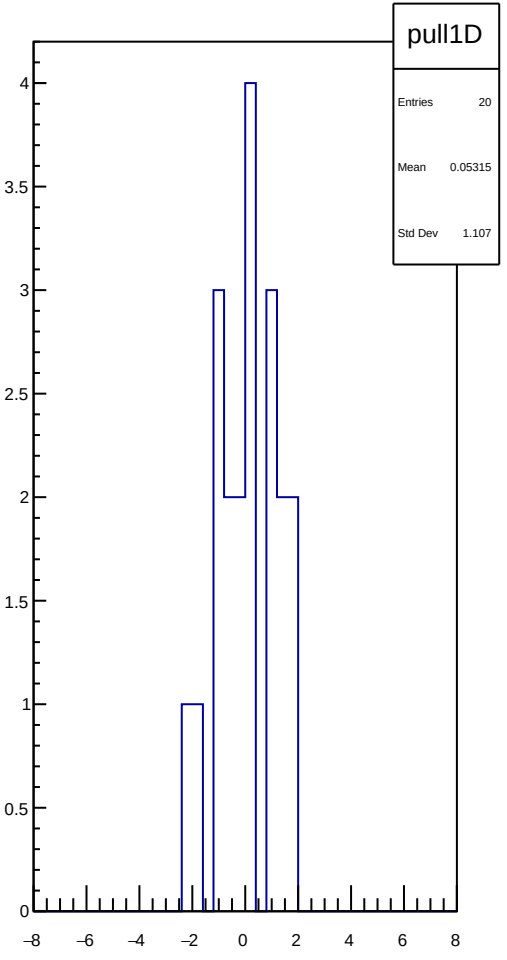

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 422.4 / 19
p0 463.6 ± 0.7287
500
490
480
470
460
450
440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

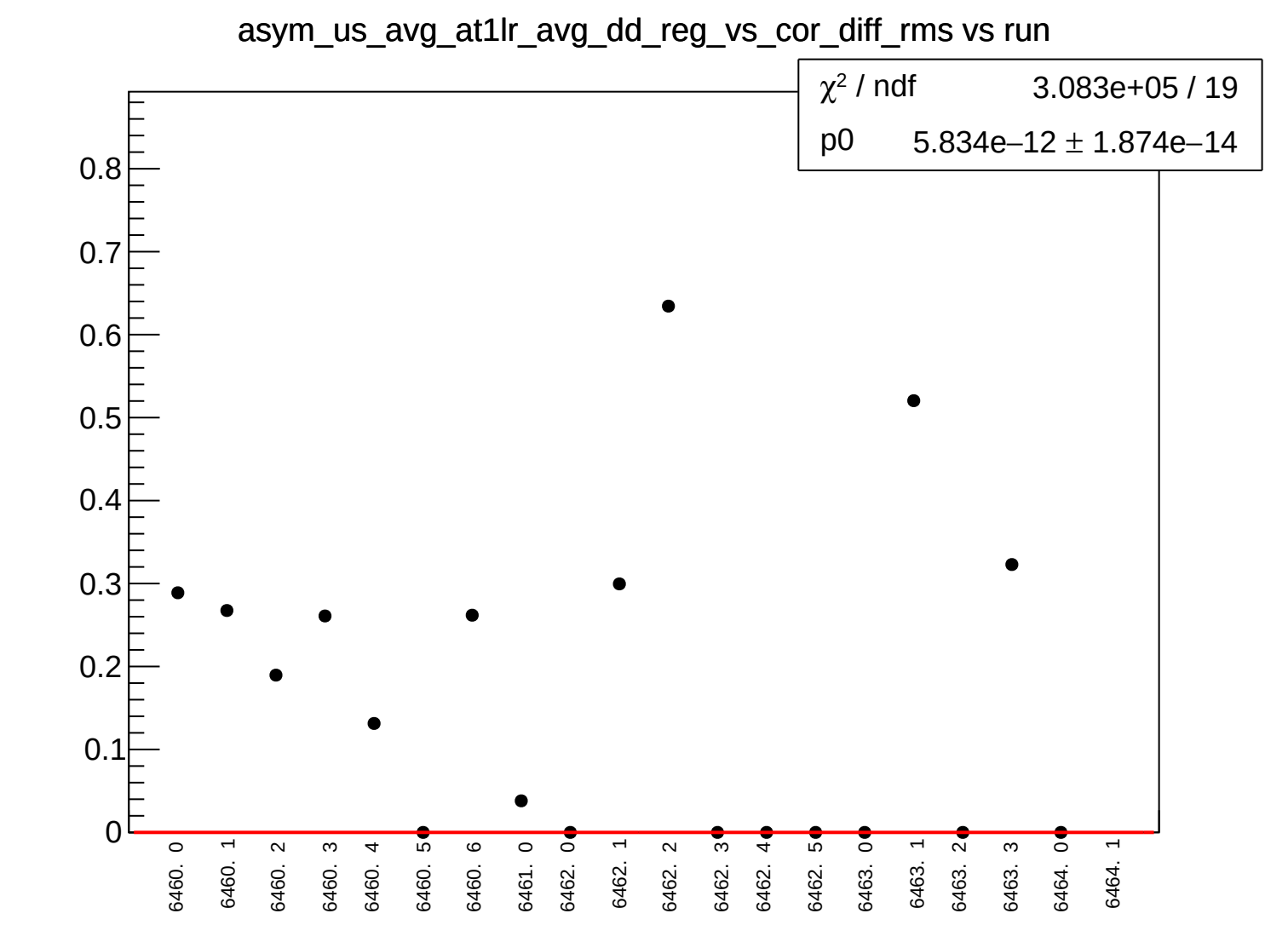

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 22.2 / 19
p0 367 ± 3981
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 367.2
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

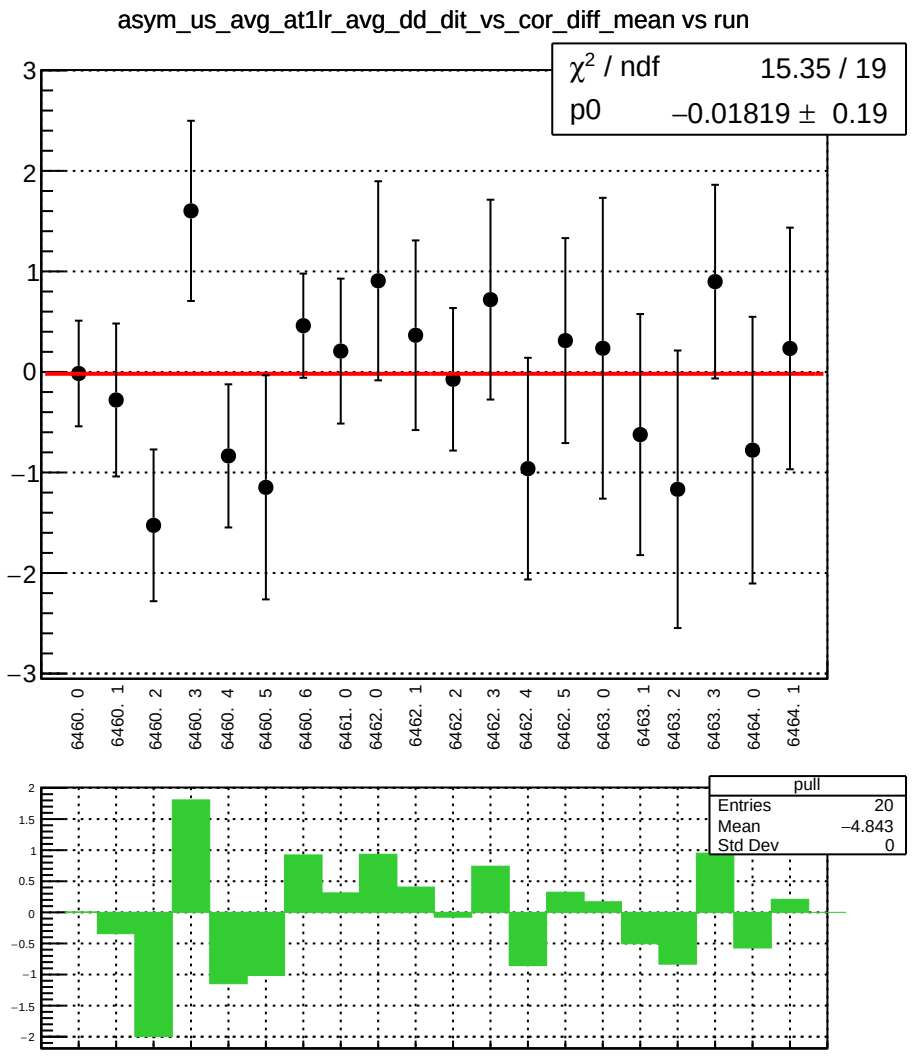

pull1D
Entries 20
Mean −0.003976
Std Dev 1.054
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

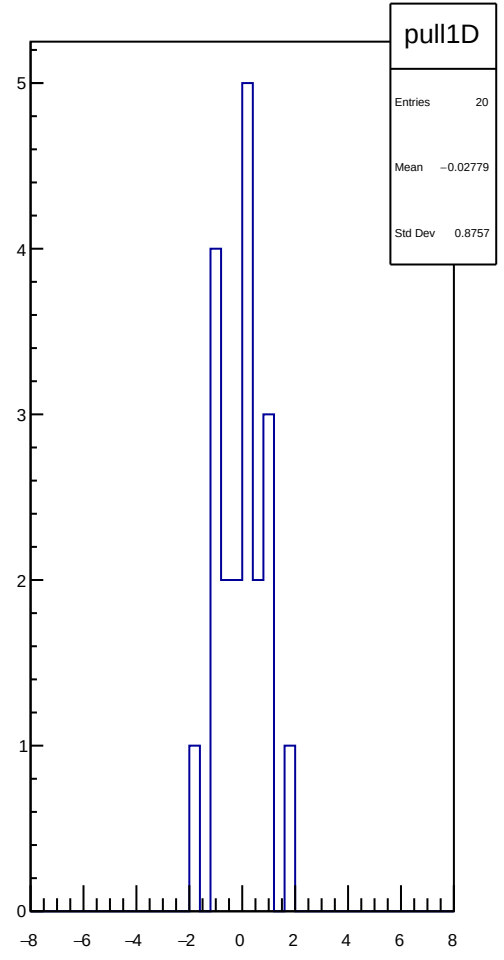

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 28.86 / 19
p0 1792 ± 2.815
1840
1830
1820
1810
1800
1790
1780
1770
1760
1750
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

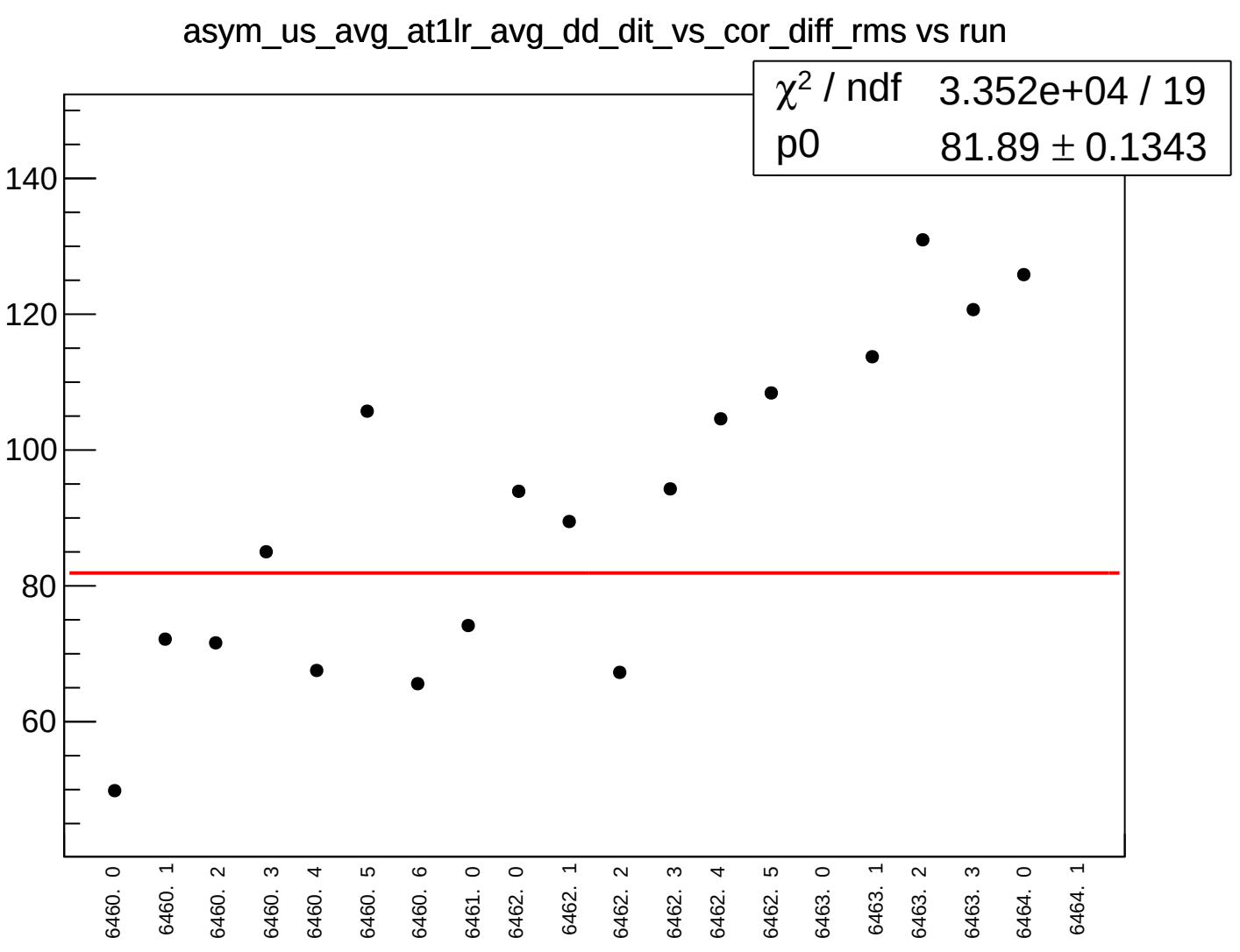

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.57 / 19
p0 9.323e−16 ± 2.651e−14
0.015
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.47
Std Dev 15.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

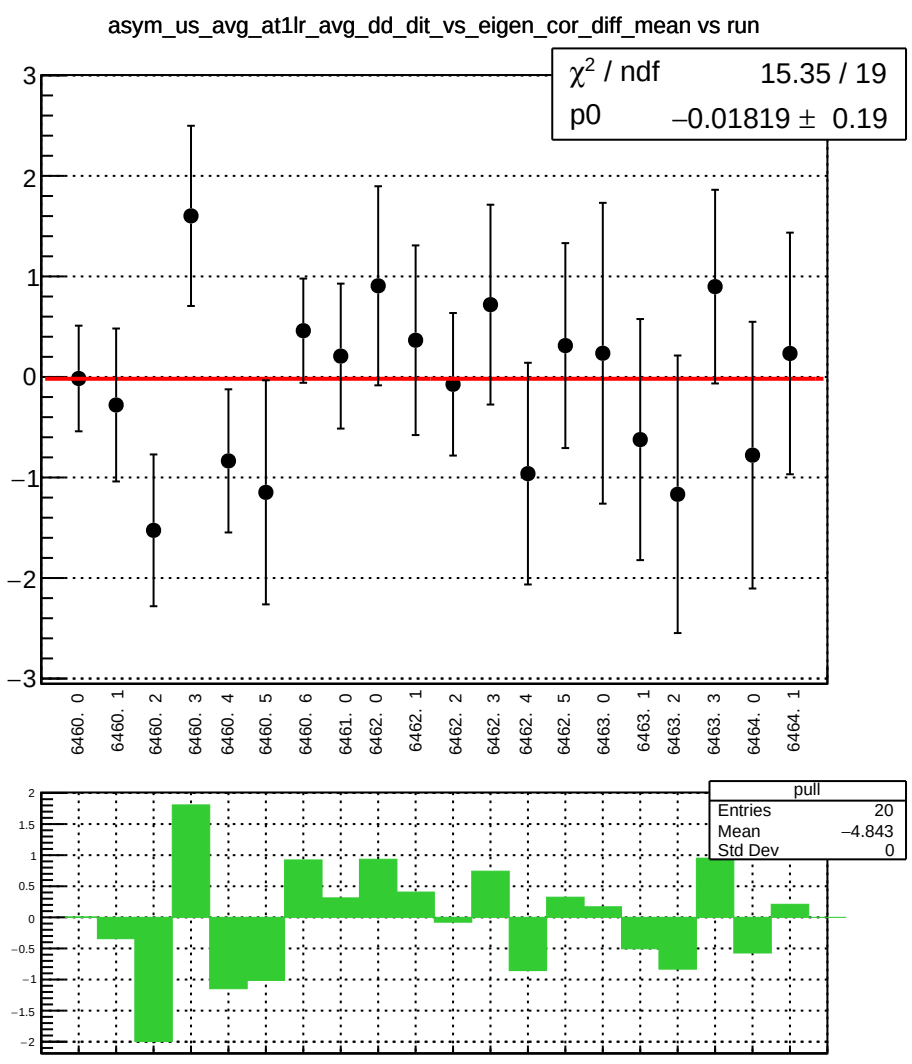

pull1D
Entries 20
Mean 0.05315
Std Dev 1.107
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

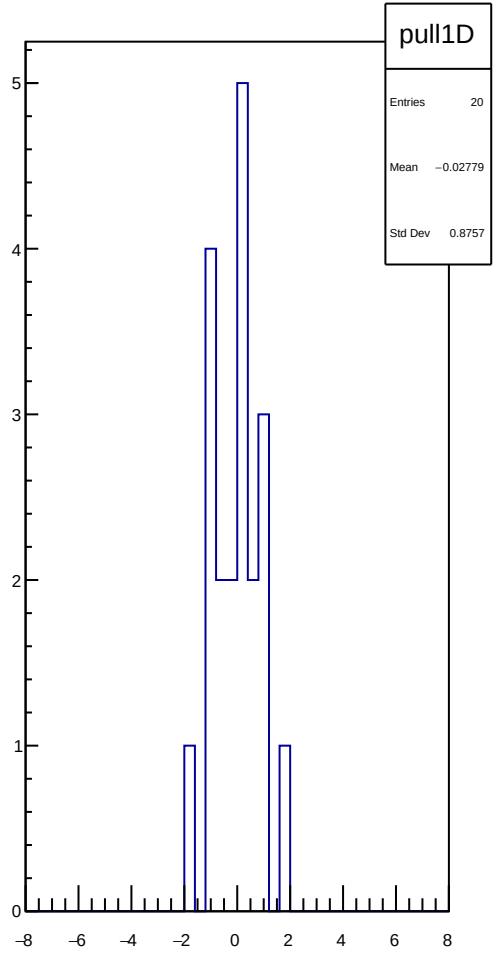

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.083e+05 / 19
p0 5.834e−12 ± 1.874e−14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

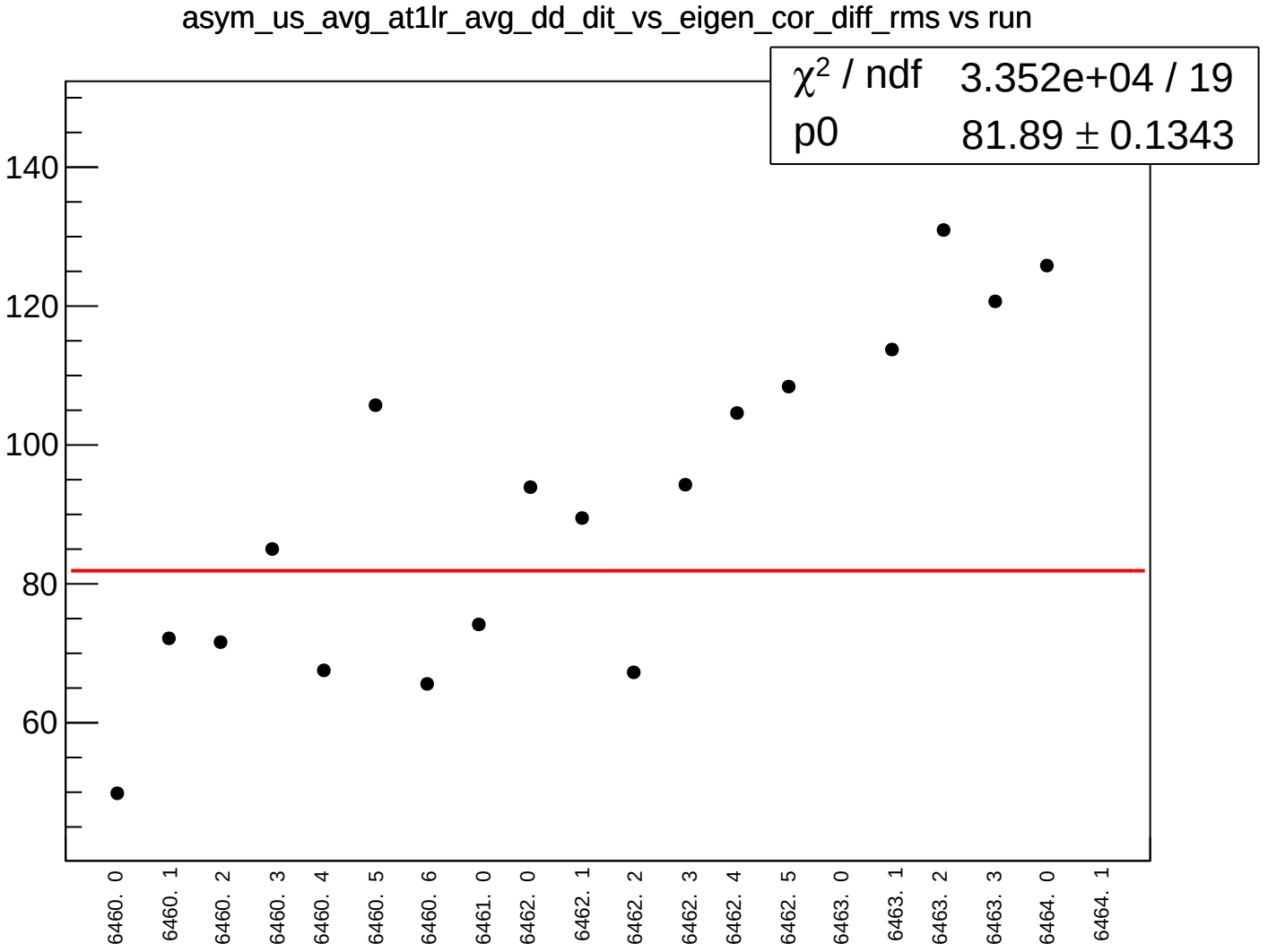

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 15.35 / 19
p0 −0.01819 ± 0.19
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.843
Std Dev 0

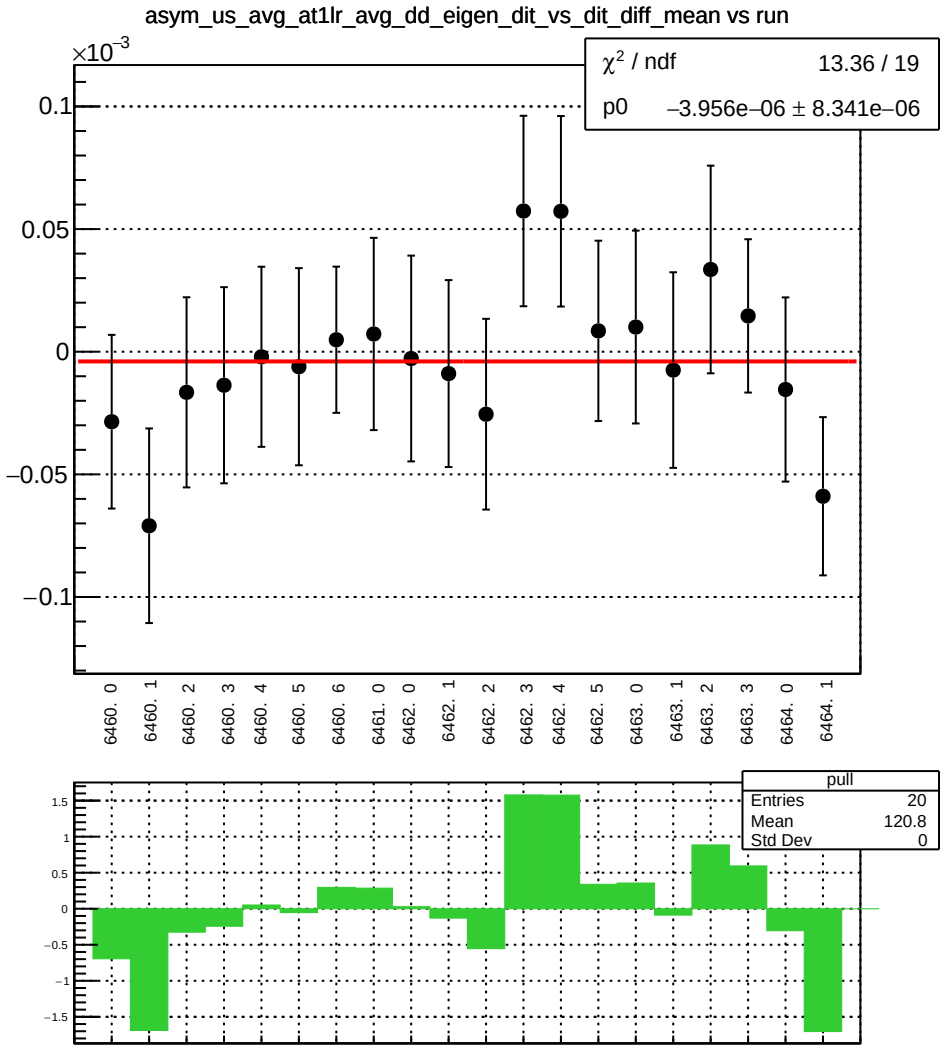

pull1D
Entries 20
Mean −0.02779
Std Dev 0.8757

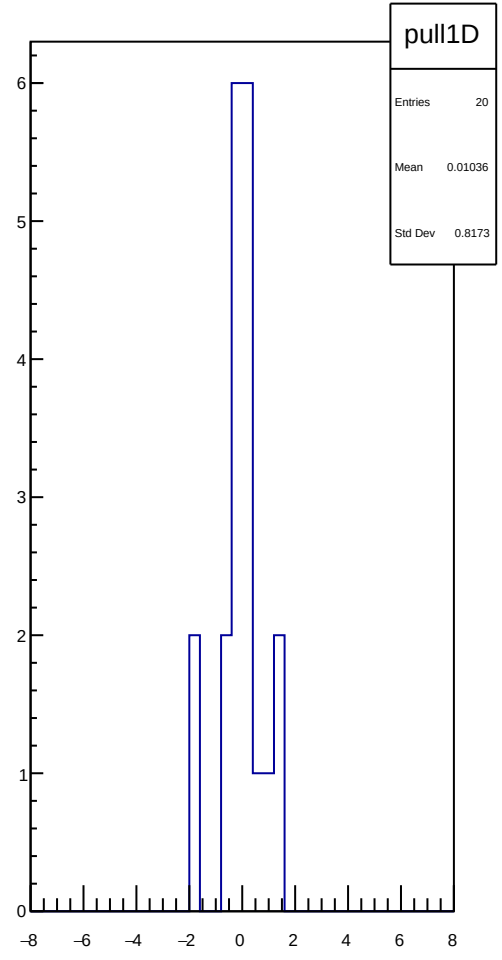

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.352e+04 / 19
p0 81.89 ± 0.1343
140
120
100
80
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

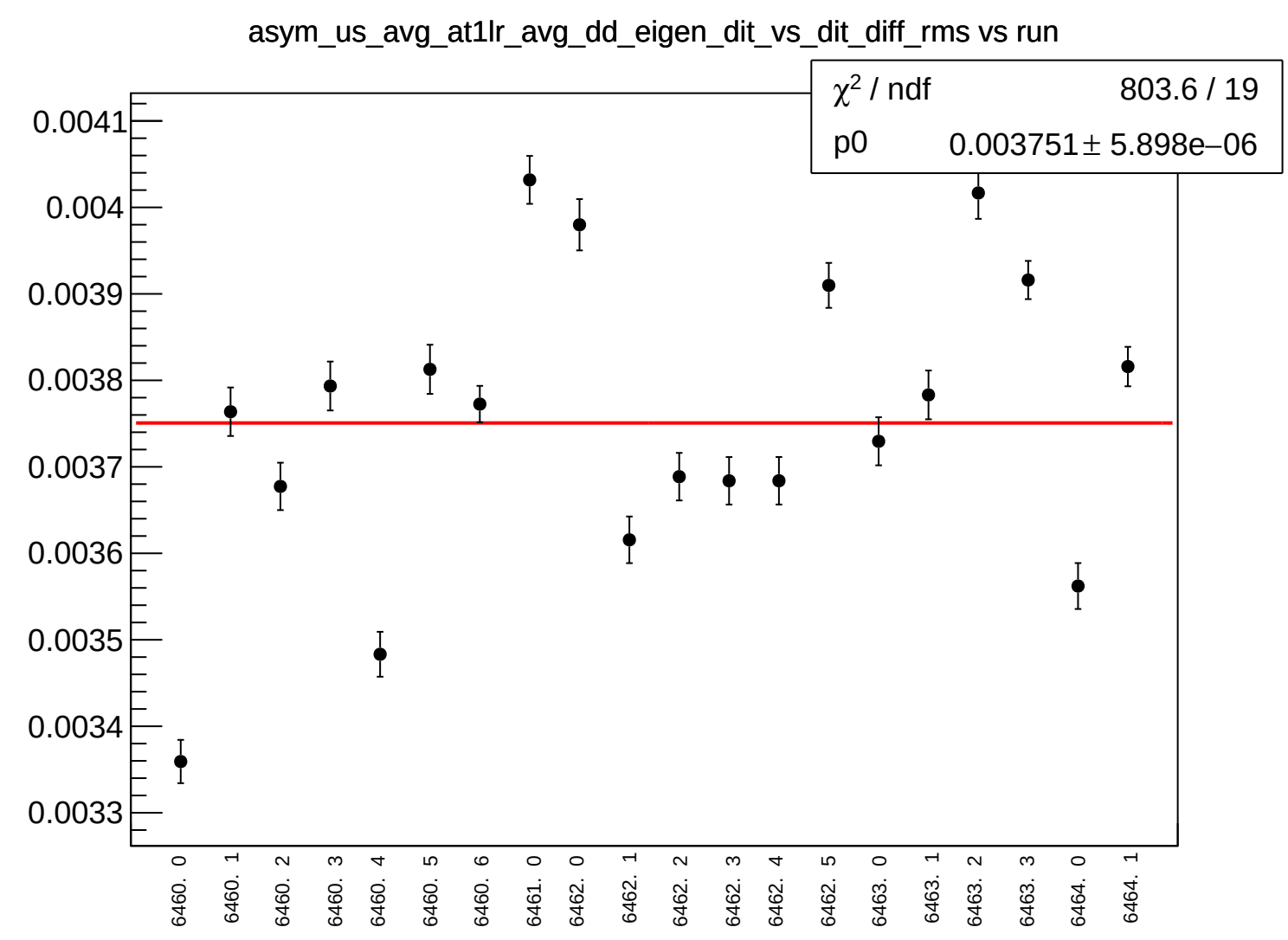

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.35 / 19
p0 −0.01819 ± 0.19
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.843
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

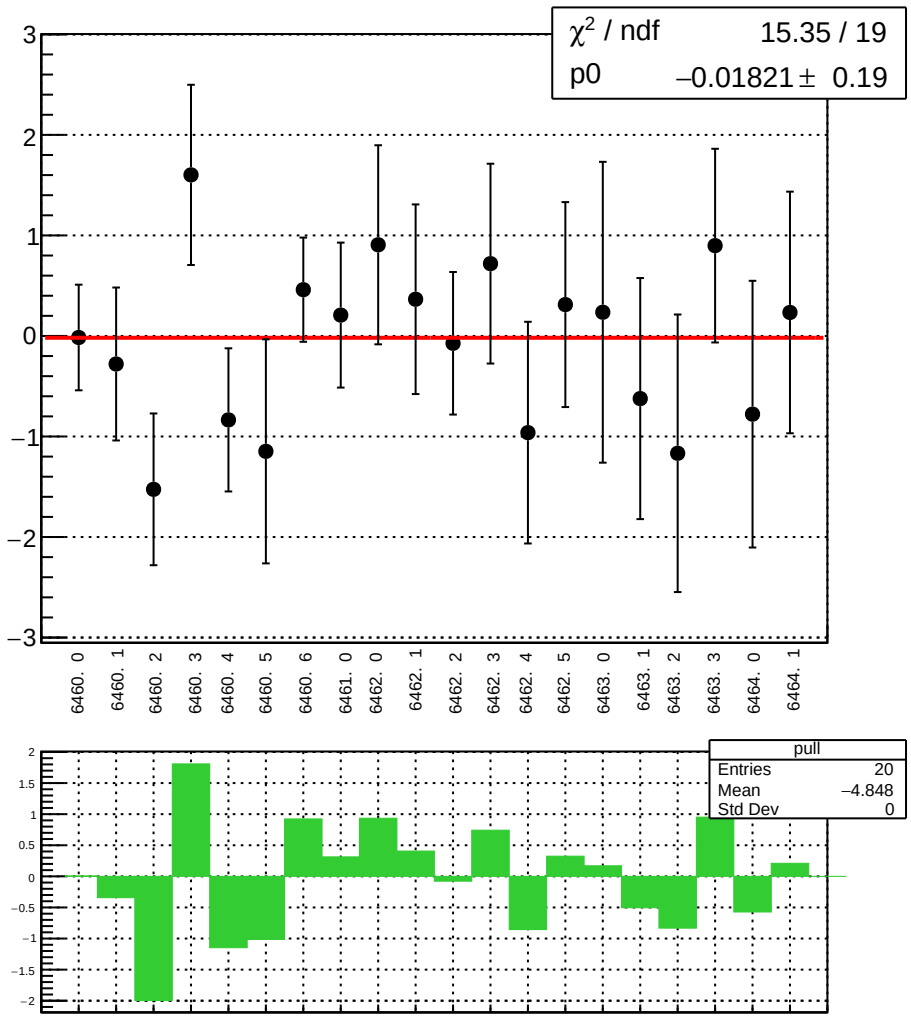

pull1D
Entries 20
Mean −0.02779
Std Dev 0.8757
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

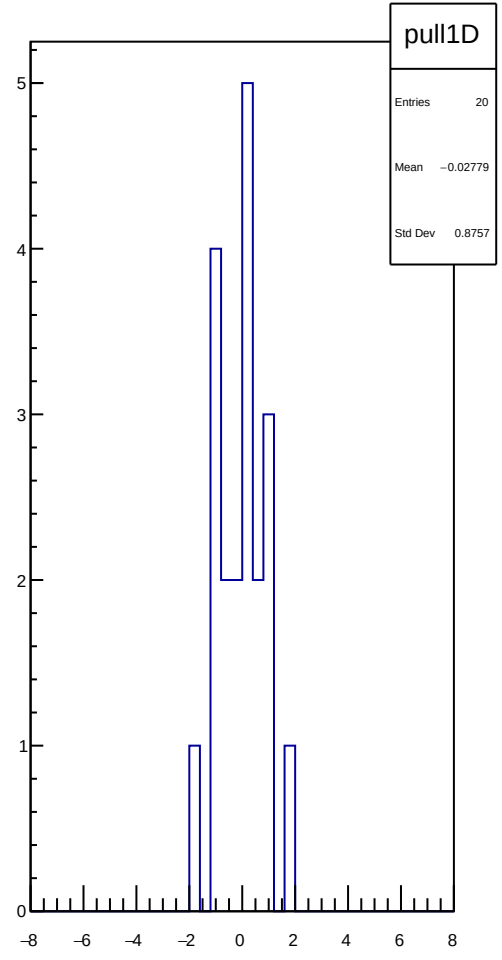

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.352e+04 / 19
p0 81.89 ± 0.1343
140
120
100
80
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

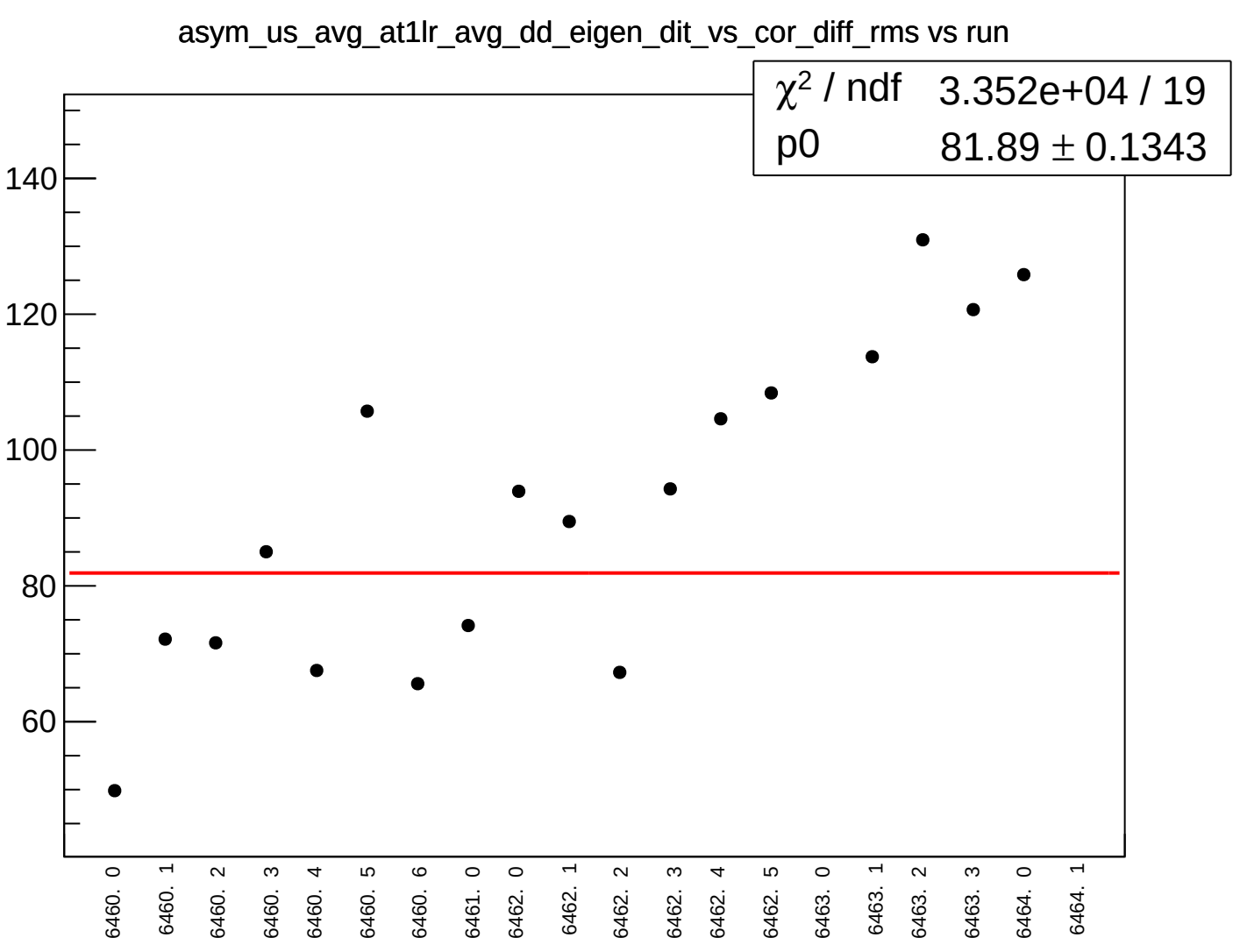

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 13.36 / 19
p0 −3.956e−06 ± 8.341e−06
0.1
0.05
0
−0.05
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 120.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

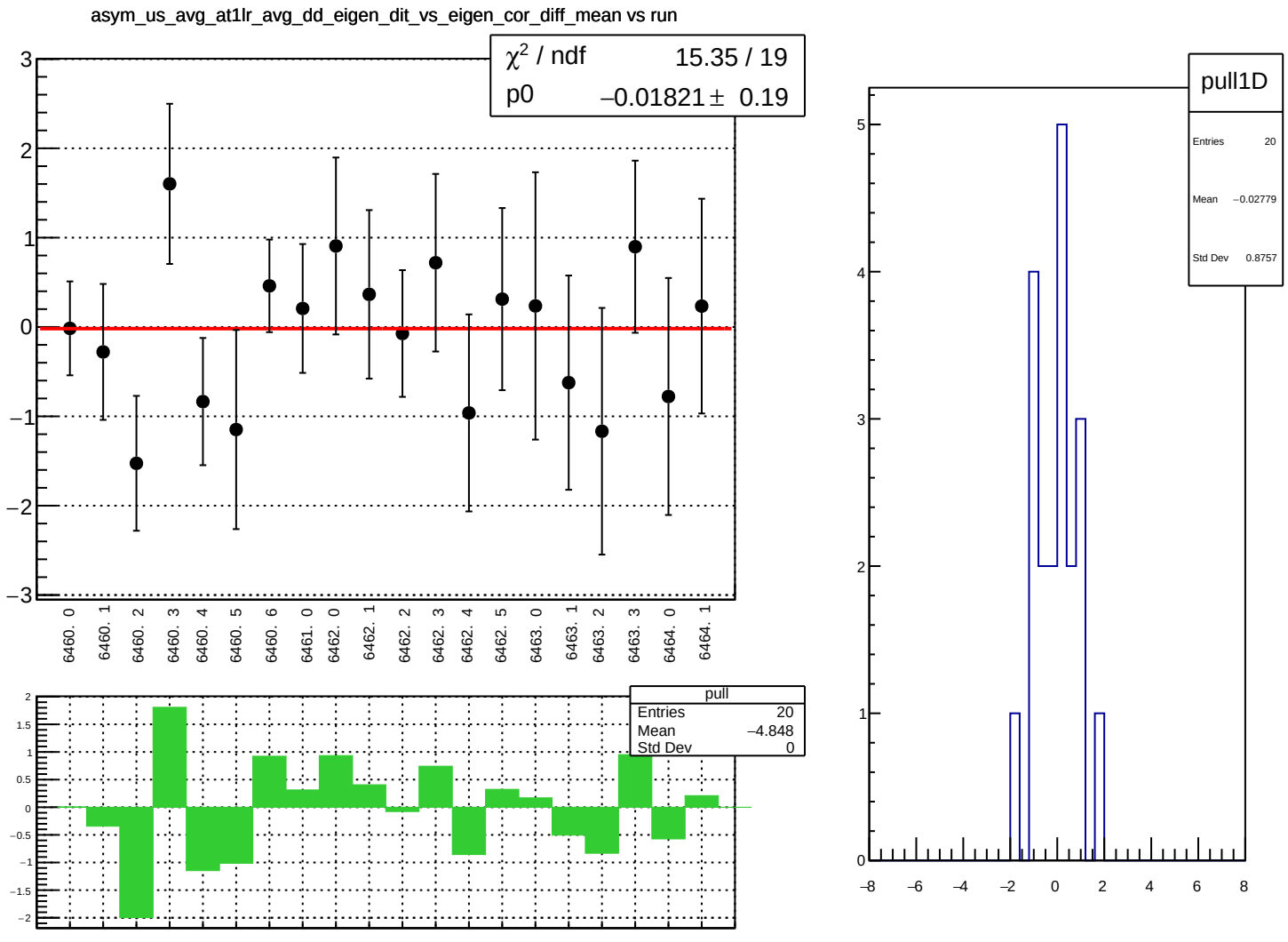

pull1D
Entries 20
Mean 0.01036
Std Dev 0.8173
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

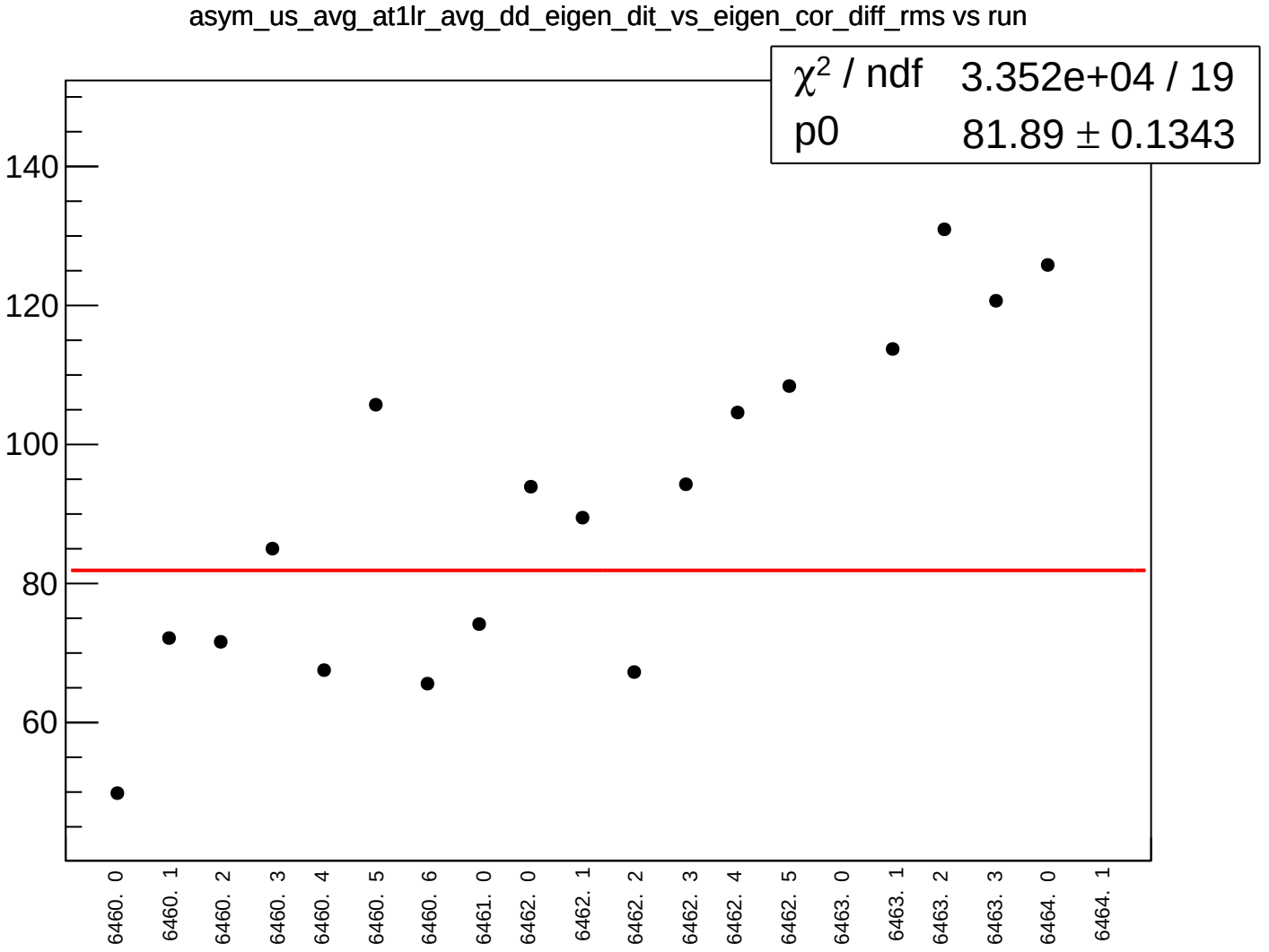

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 803.6 / 19
p0 0.003751 ± 5.898e−06
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

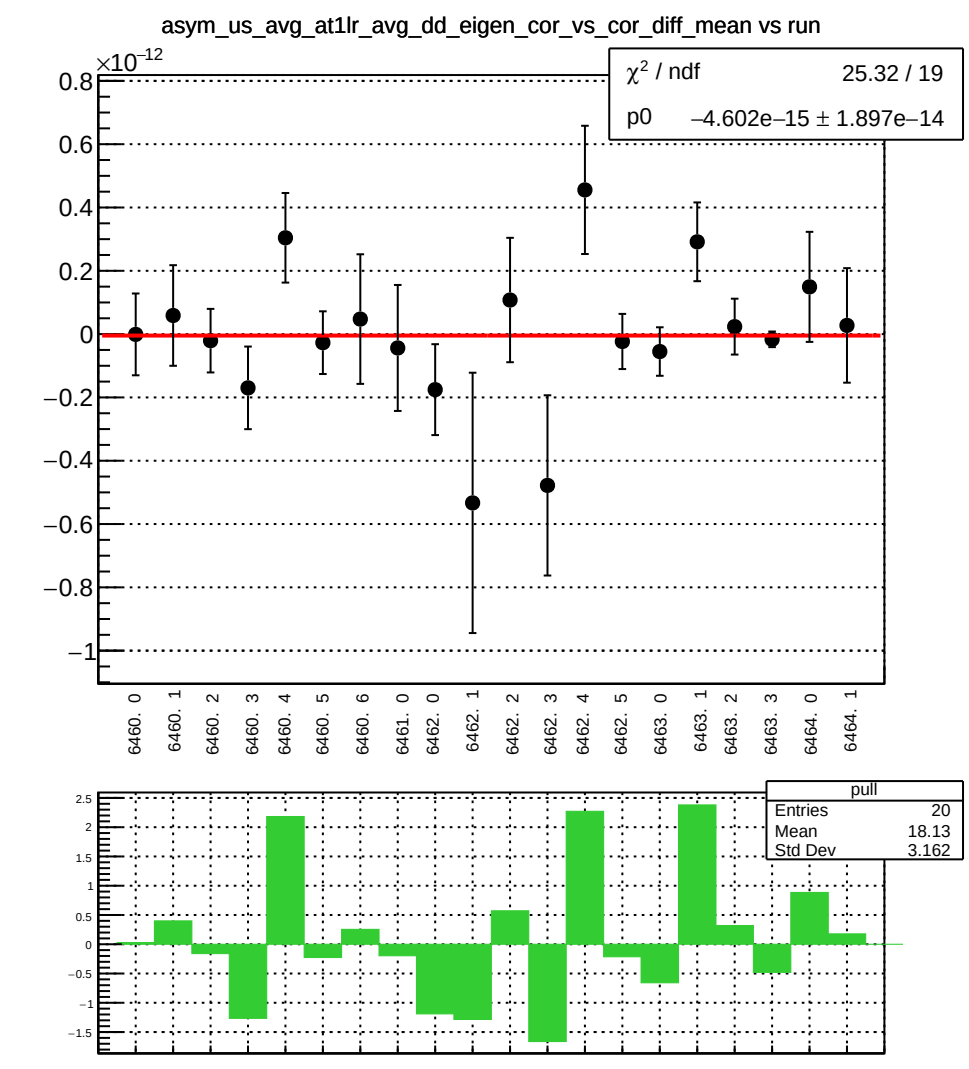

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 15.35 / 19
p0 −0.01821 ± 0.19
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.848
Std Dev 0

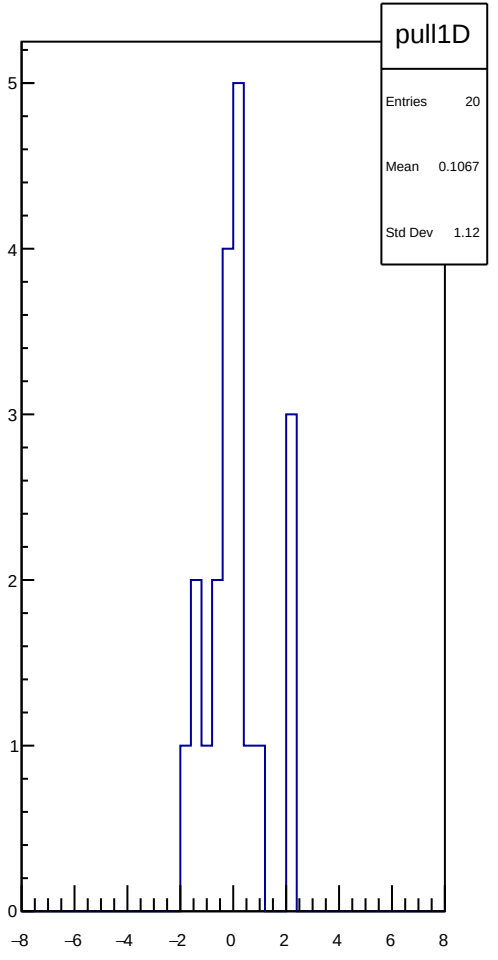

pull1D
Entries 20
Mean −0.02779
Std Dev 0.8757

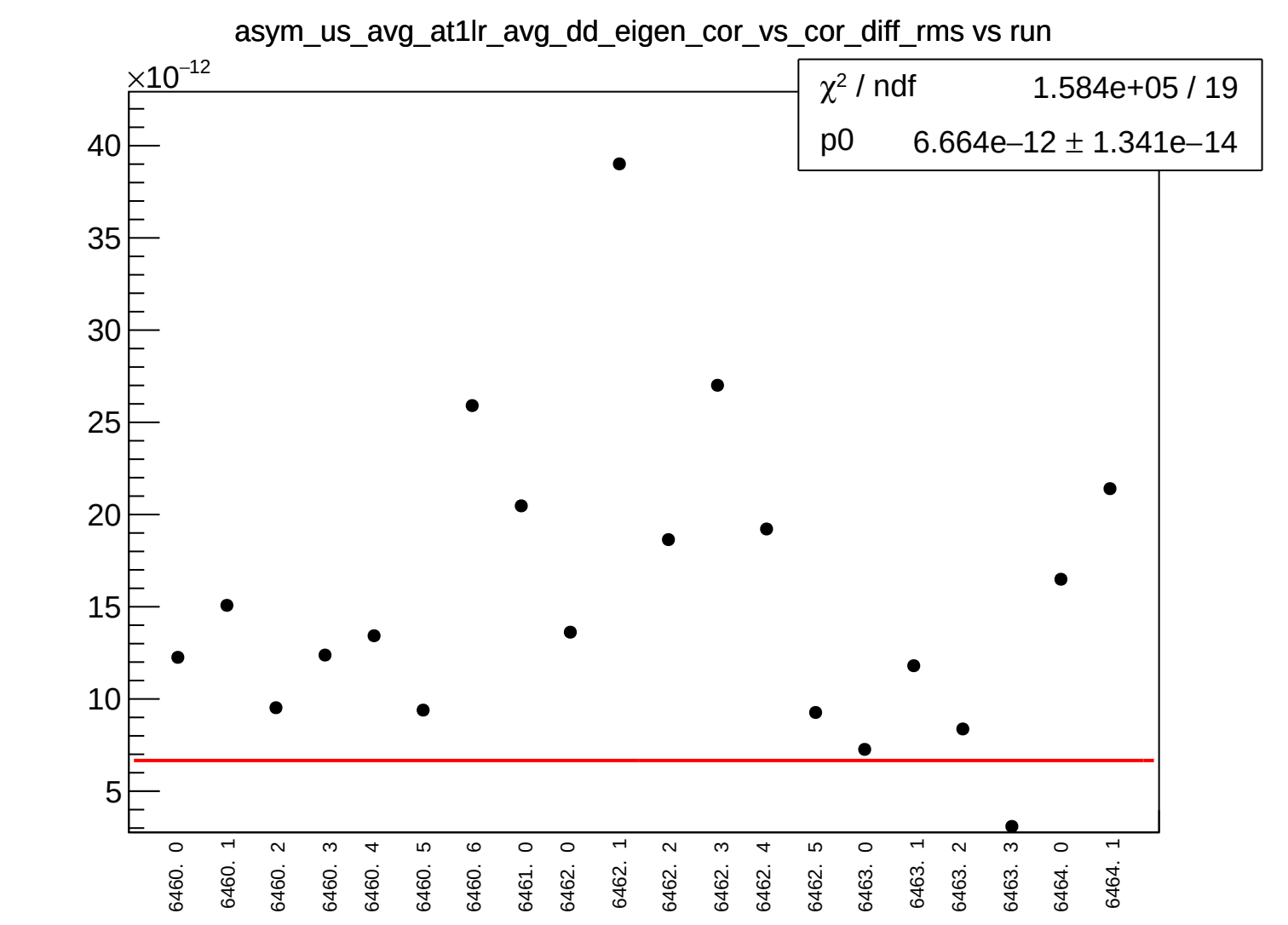

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.352e+04 / 19
p0 81.89 ± 0.1343
140
120
100
80
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

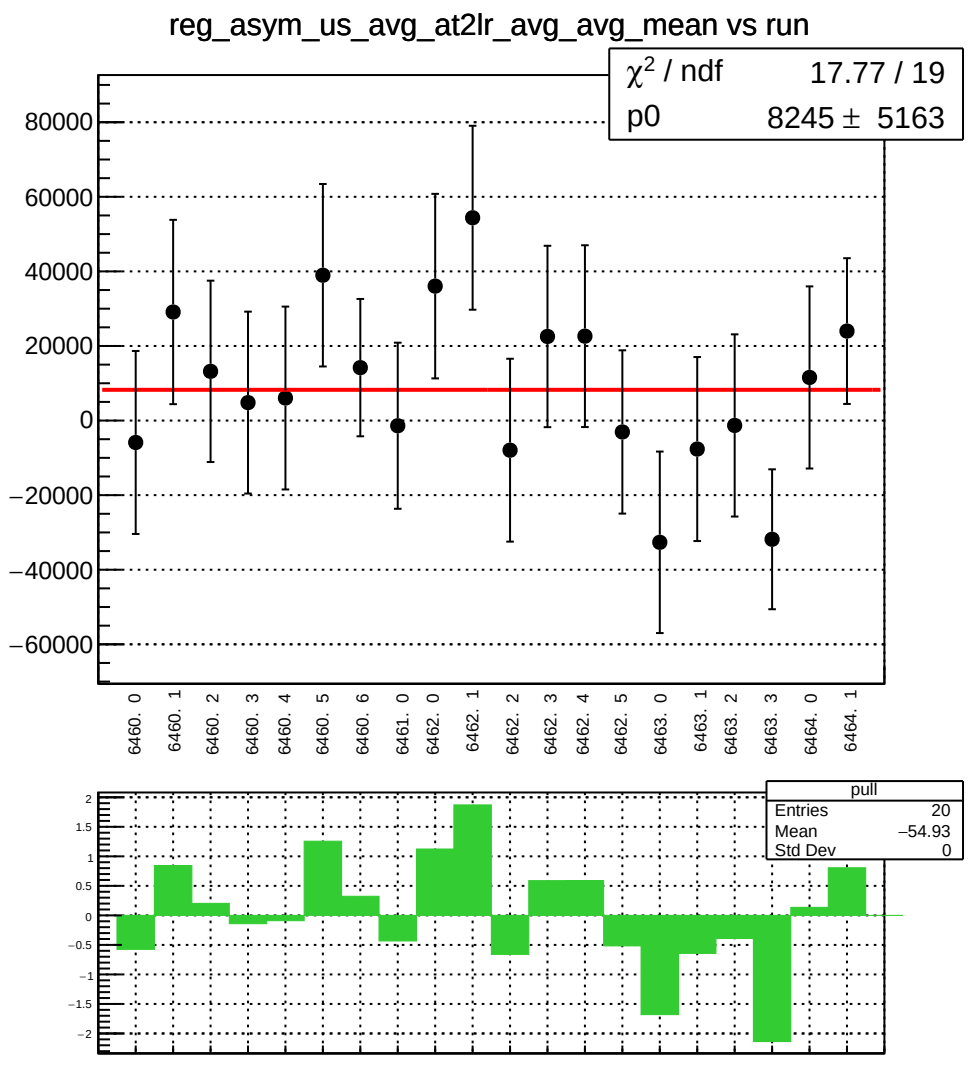

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.35 / 19
p0 −0.01821 ± 0.19
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.848
Std Dev 0
pull1D
Entries 20
Mean −0.02779
Std Dev 0.8757

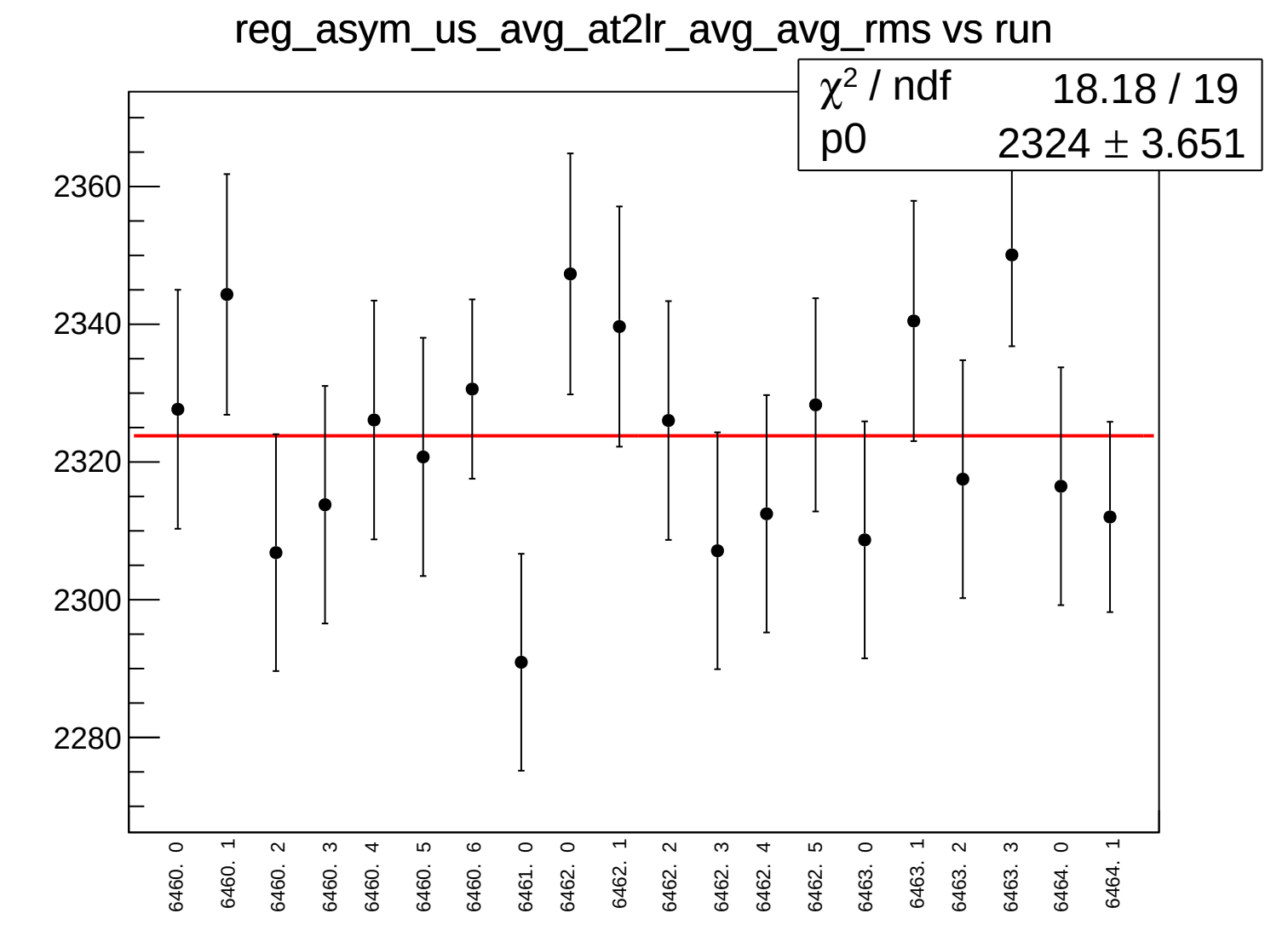

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.352e+04 / 19
p0 81.89 ± 0.1343
140
120
100
80
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

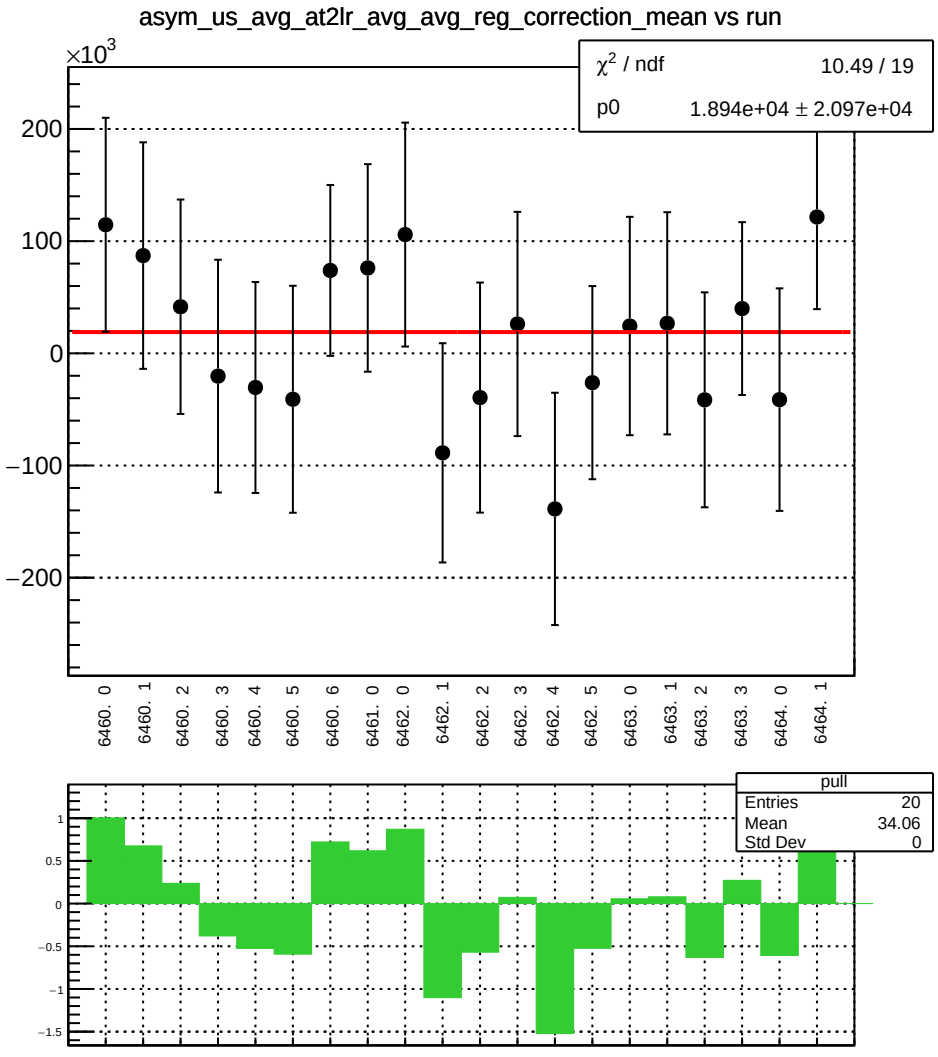

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.32 / 19
p0 −4.602e−15 ± 1.897e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.13
Std Dev 3.162
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

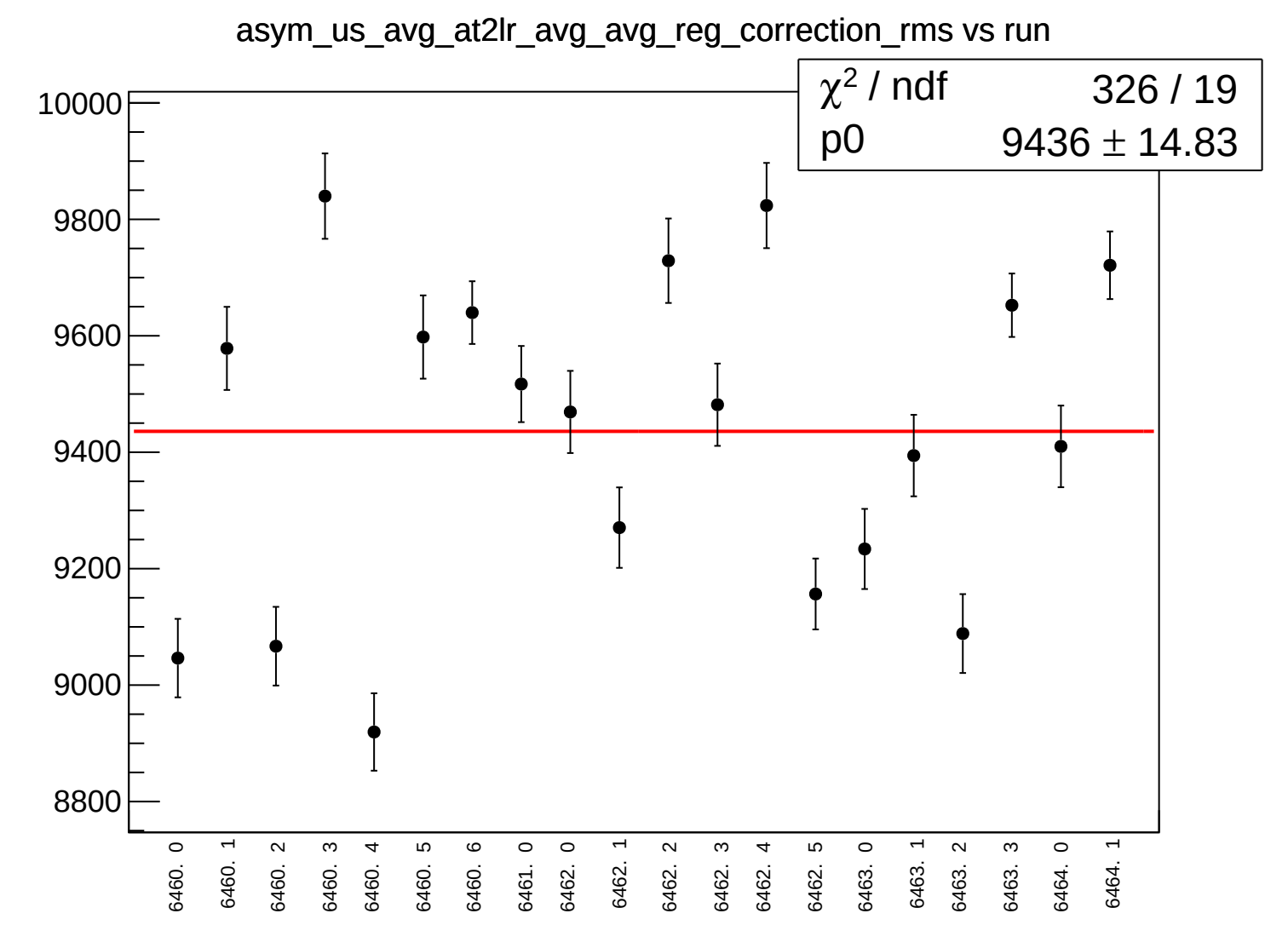

pull1D
Entries 20
Mean 0.1067
Std Dev 1.12
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

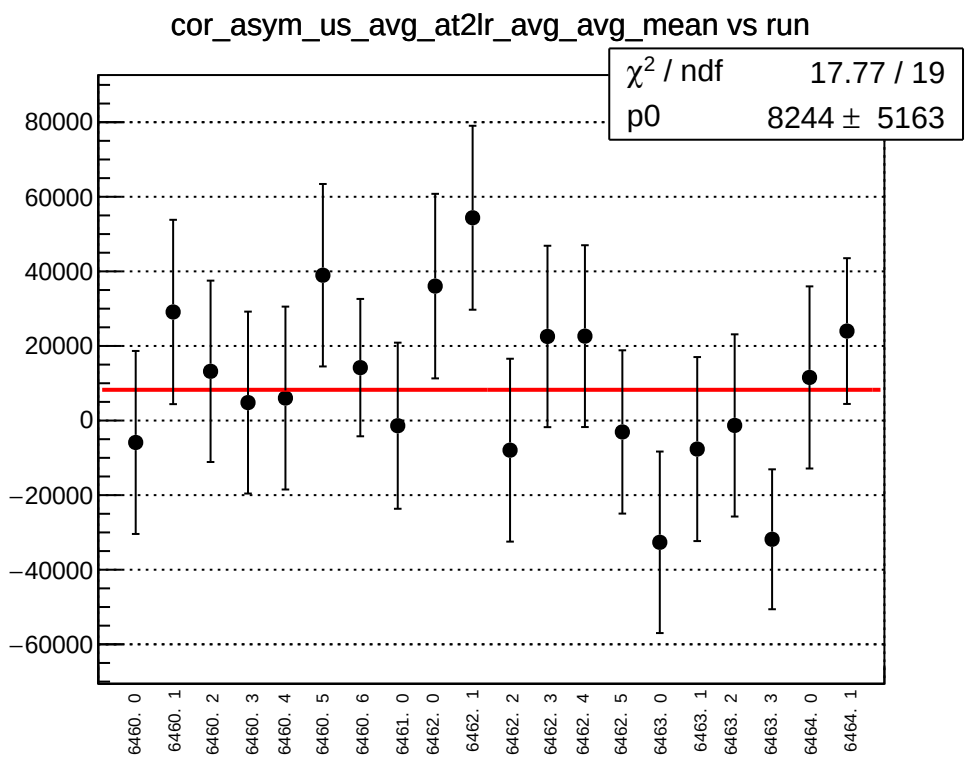

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.584e+05 / 19
p0 6.664e−12 ± 1.341e−14
40
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

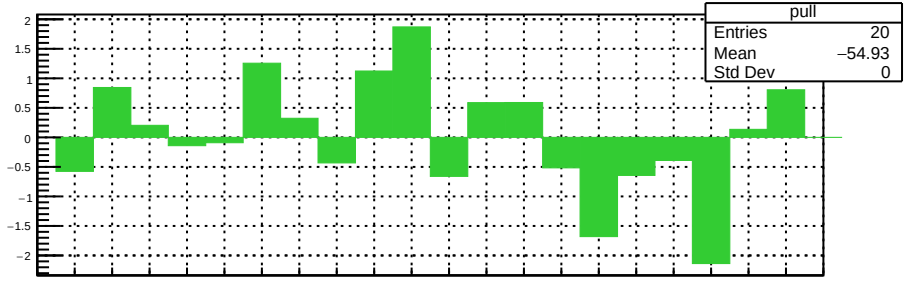

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 17.77 / 19
p0 8245 ± 5163
80000
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −54.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.02371
Std Dev 0.9422
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

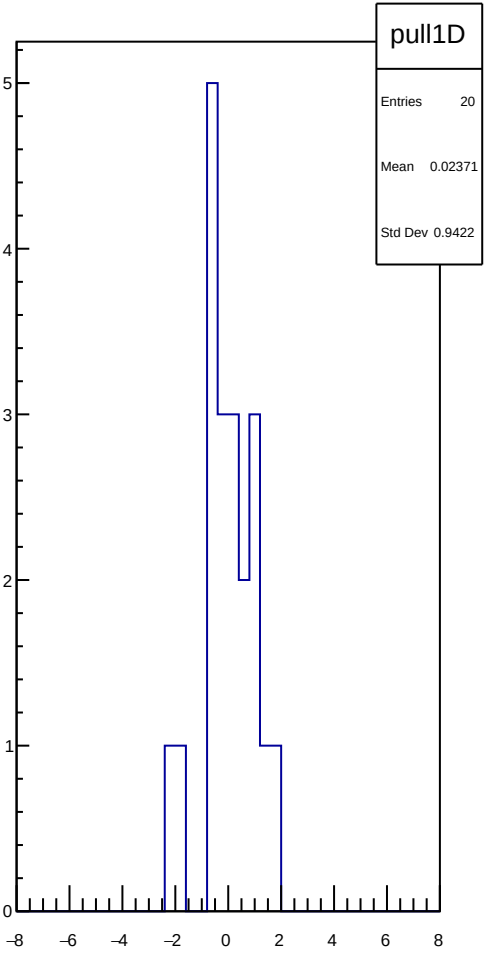

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 18.18 / 19
p0 2324 ± 3.651
2360
2340
2320
2300
2280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

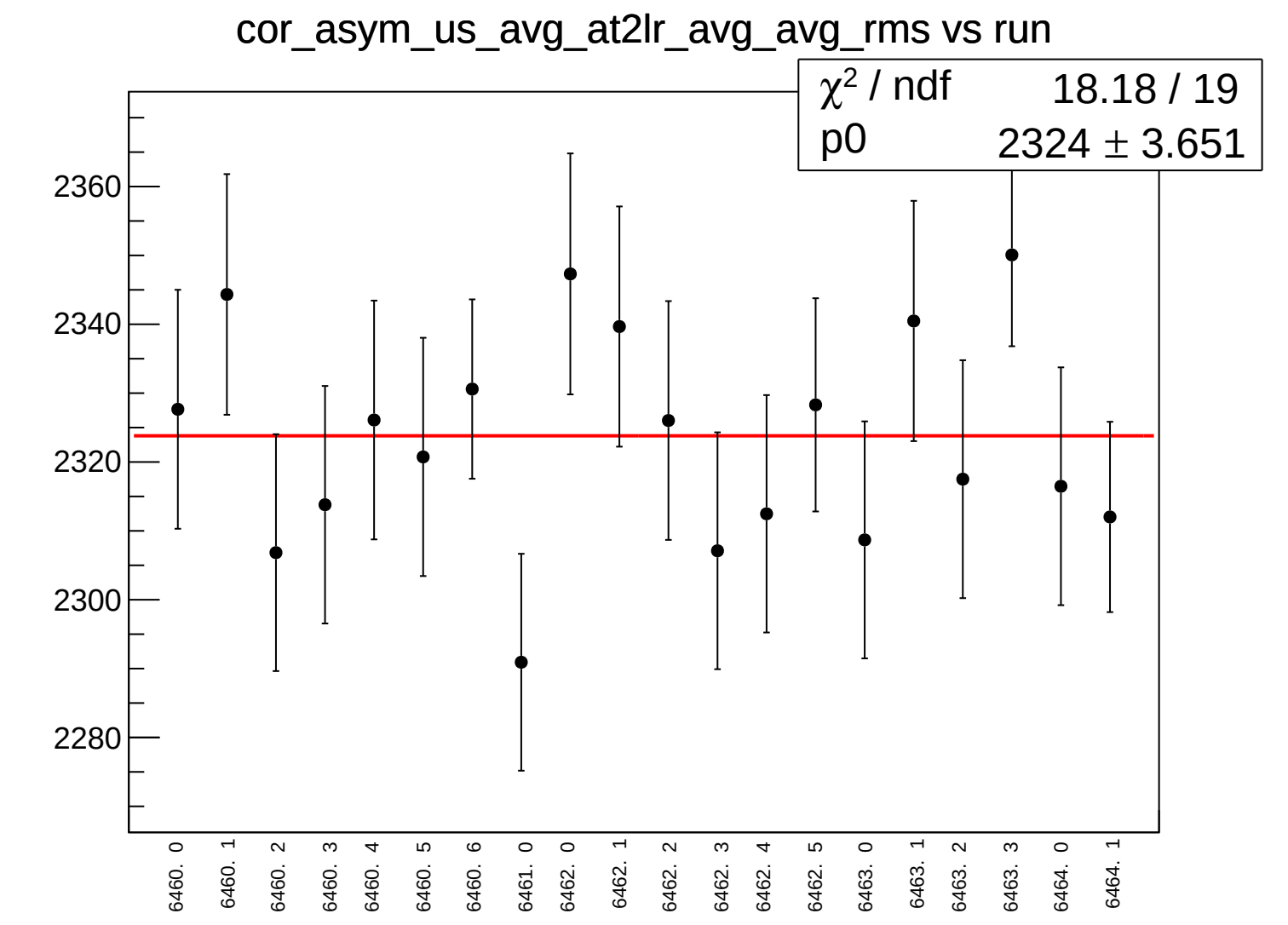

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 10.49 / 19
p0 1.894e+04 ± 2.097e+04
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.06
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02979
Std Dev 0.7237
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

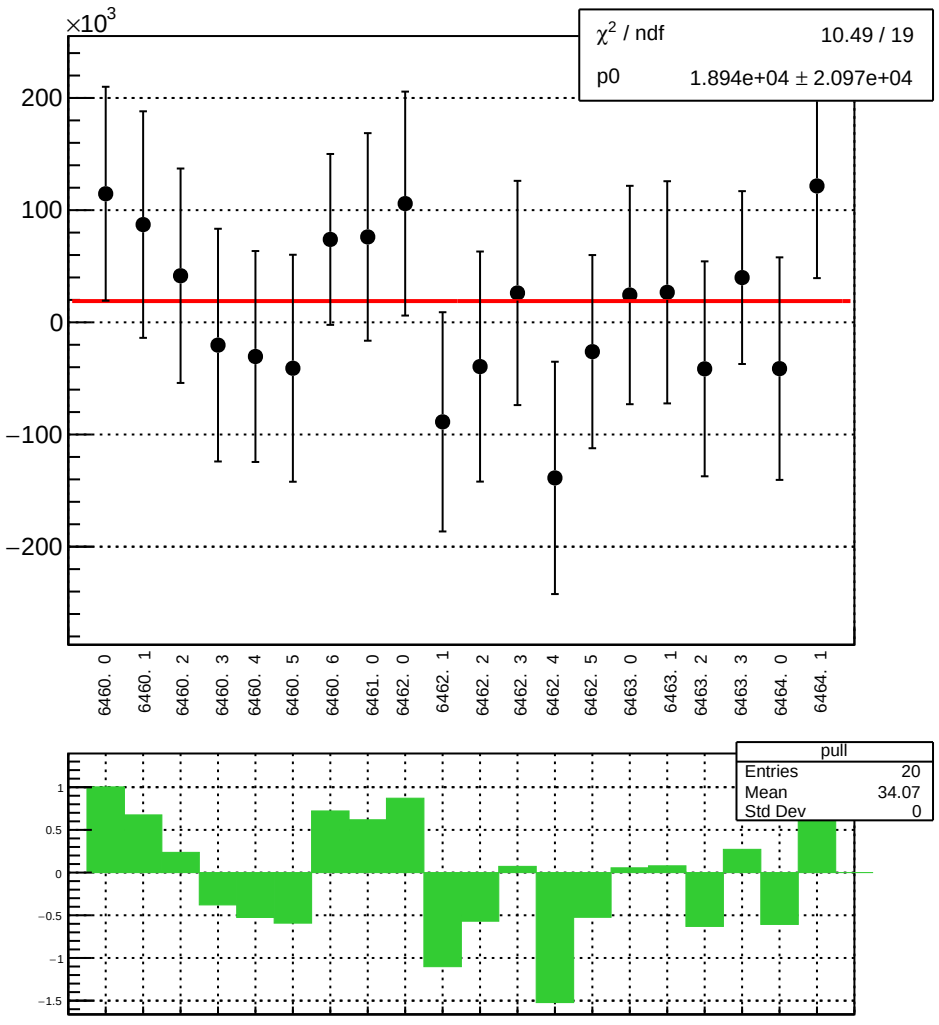

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 326 / 19
p0 9436 ± 14.83
10000
9800
9600
9400
9200
9000
8800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

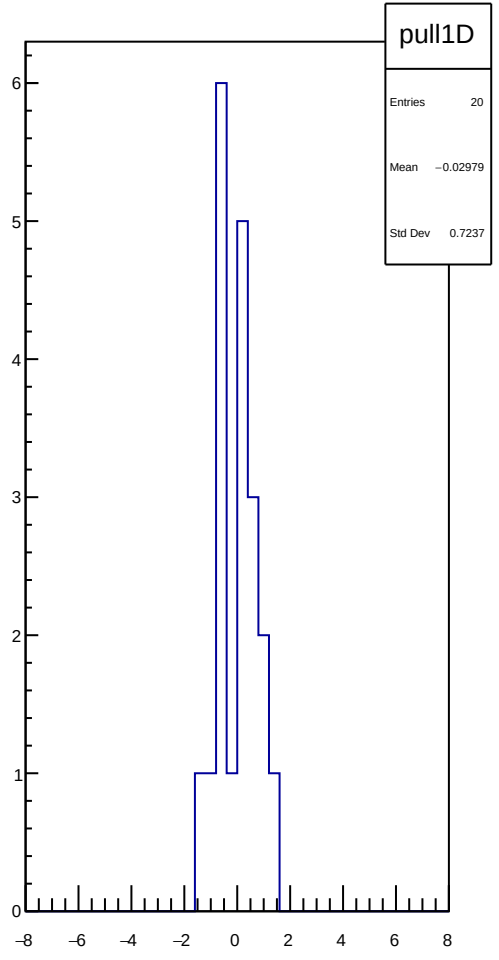

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 17.77 / 19
p0 8244 ± 5163
80000
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

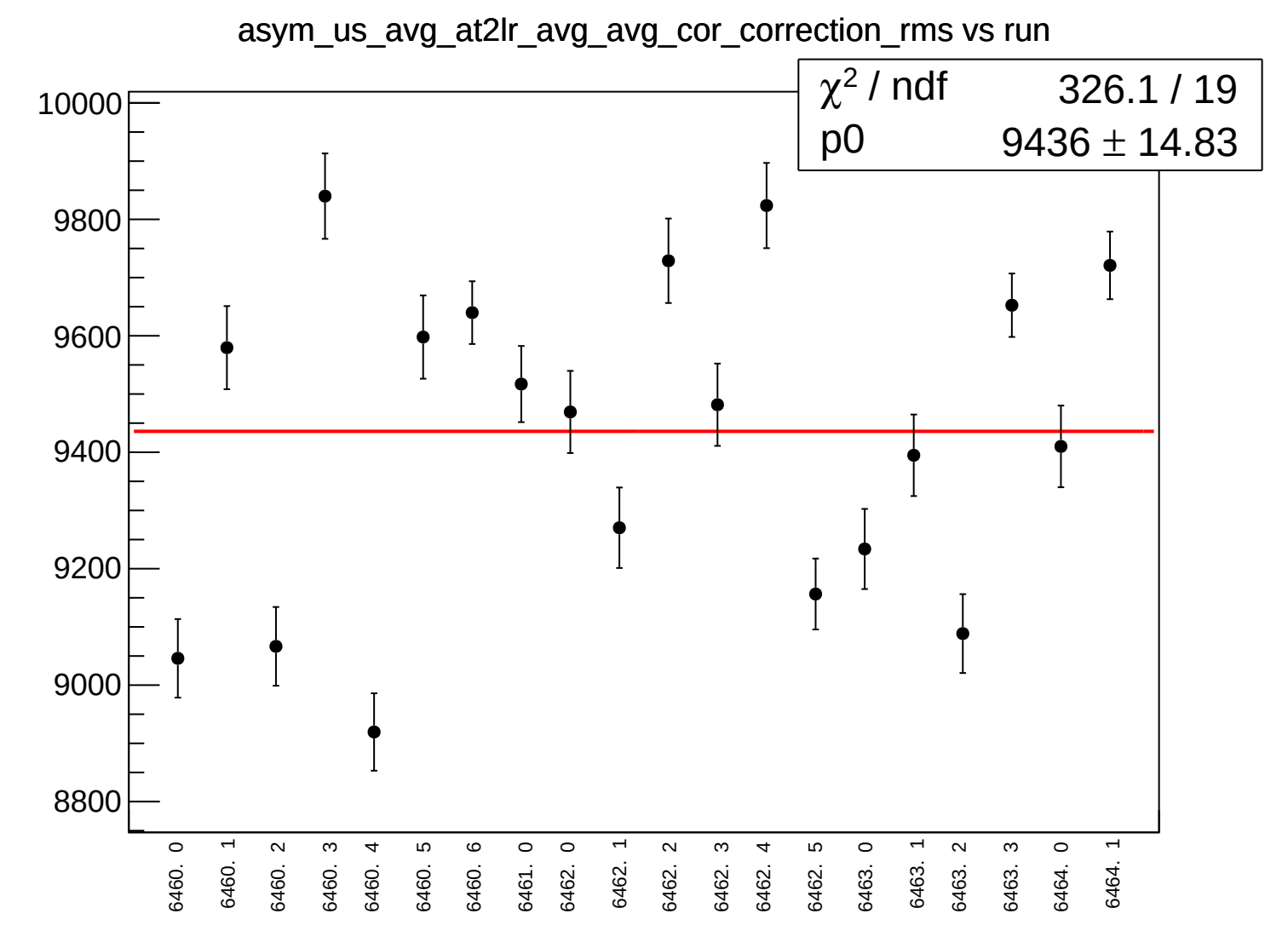

pull
Entries 20
Mean −54.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

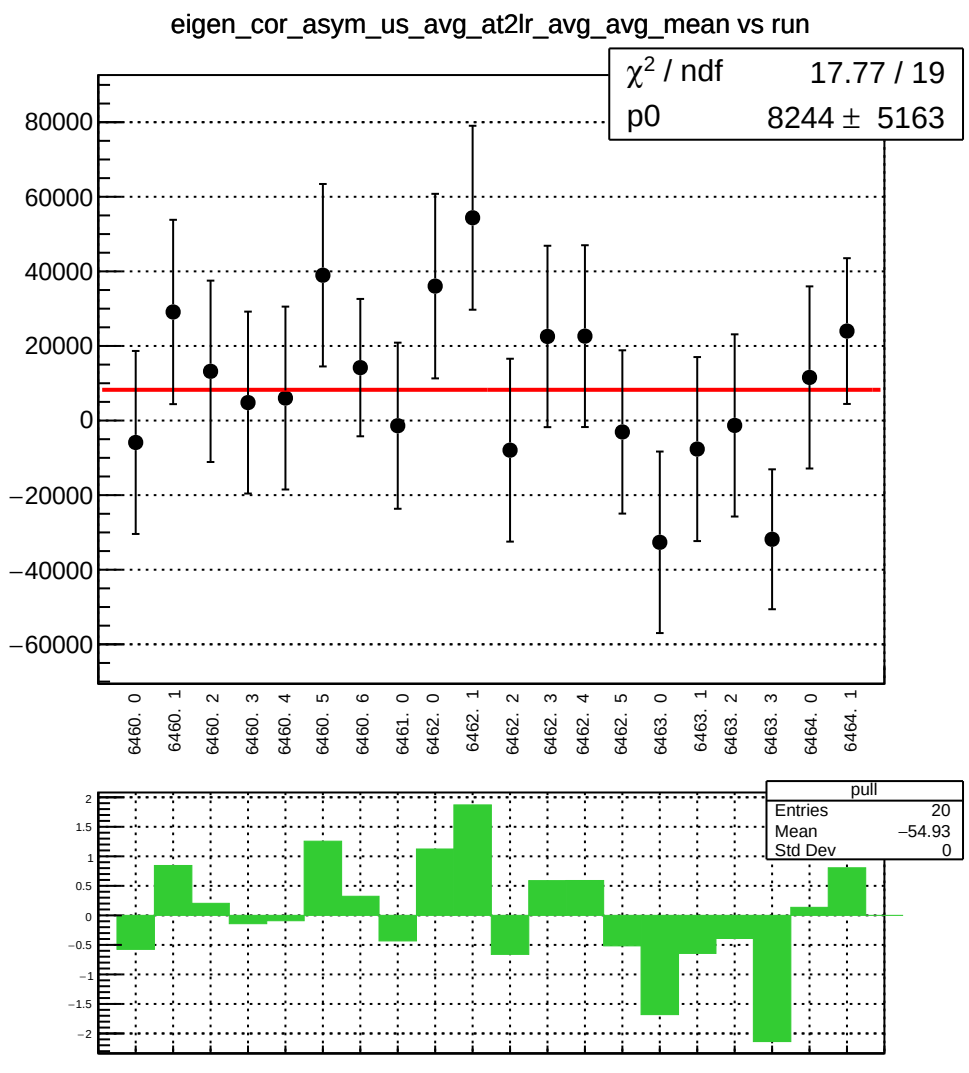

pull1D
Entries 20
Mean 0.02371
Std Dev 0.9422
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

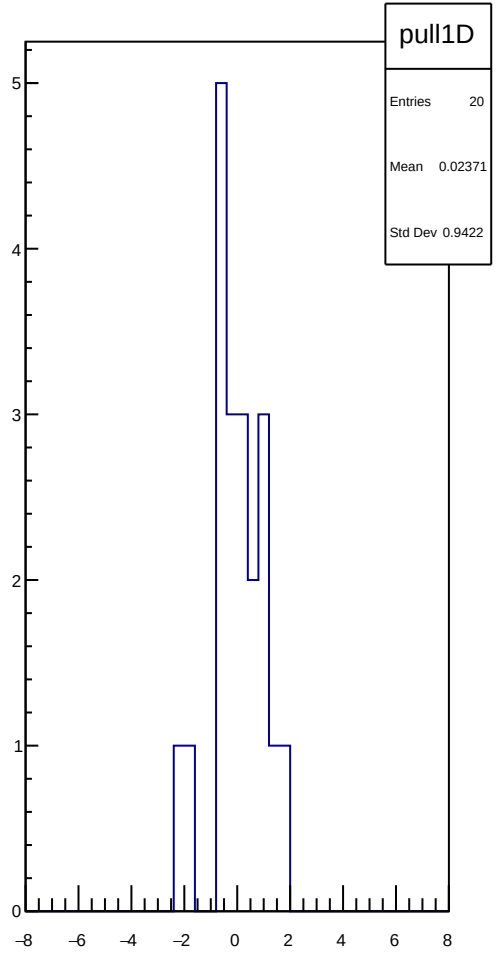

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 18.18 / 19
p0 2324 ± 3.651
2360
2340
2320
2300
2280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

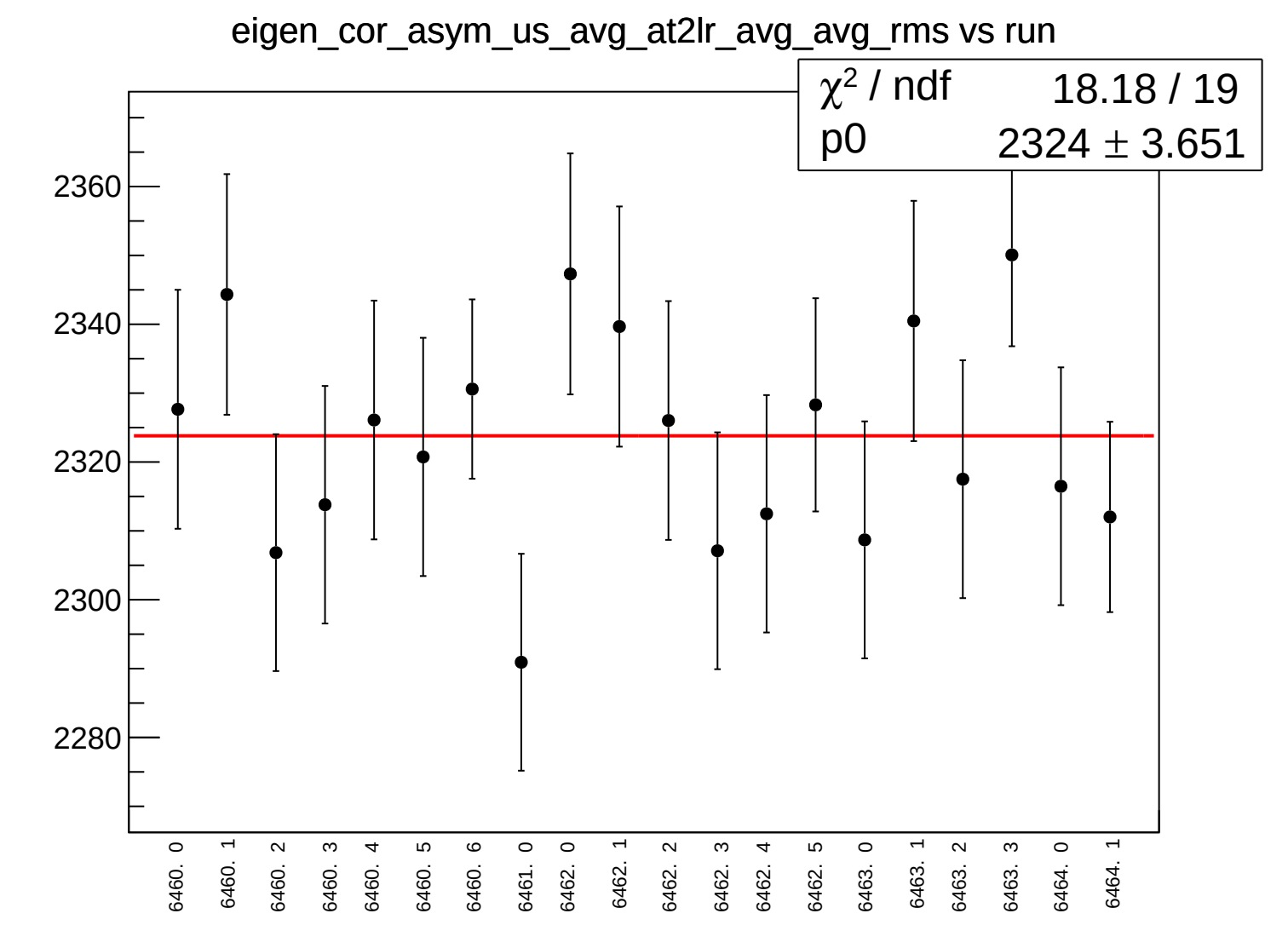

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 10.49 / 19
p0 1.894e+04 ± 2.097e+04
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.07
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

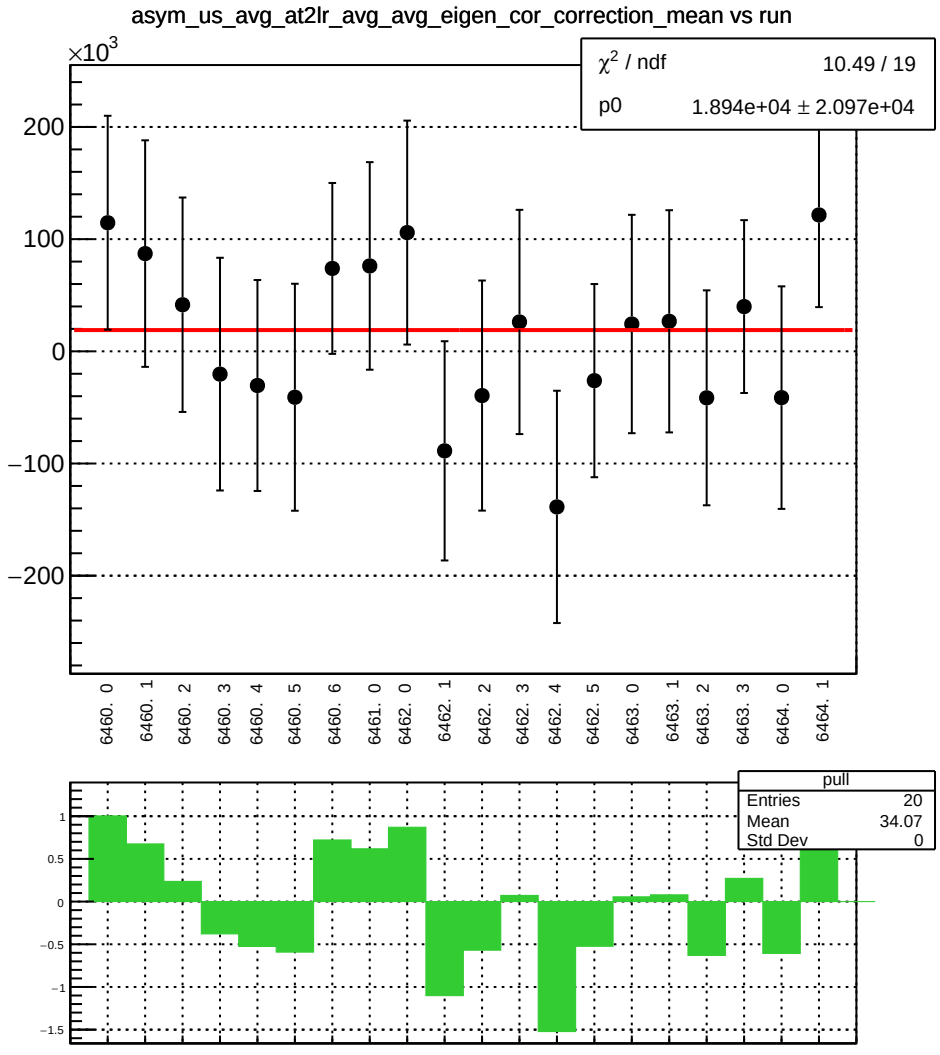

pull1D
Entries 20
Mean −0.02979
Std Dev 0.7237
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

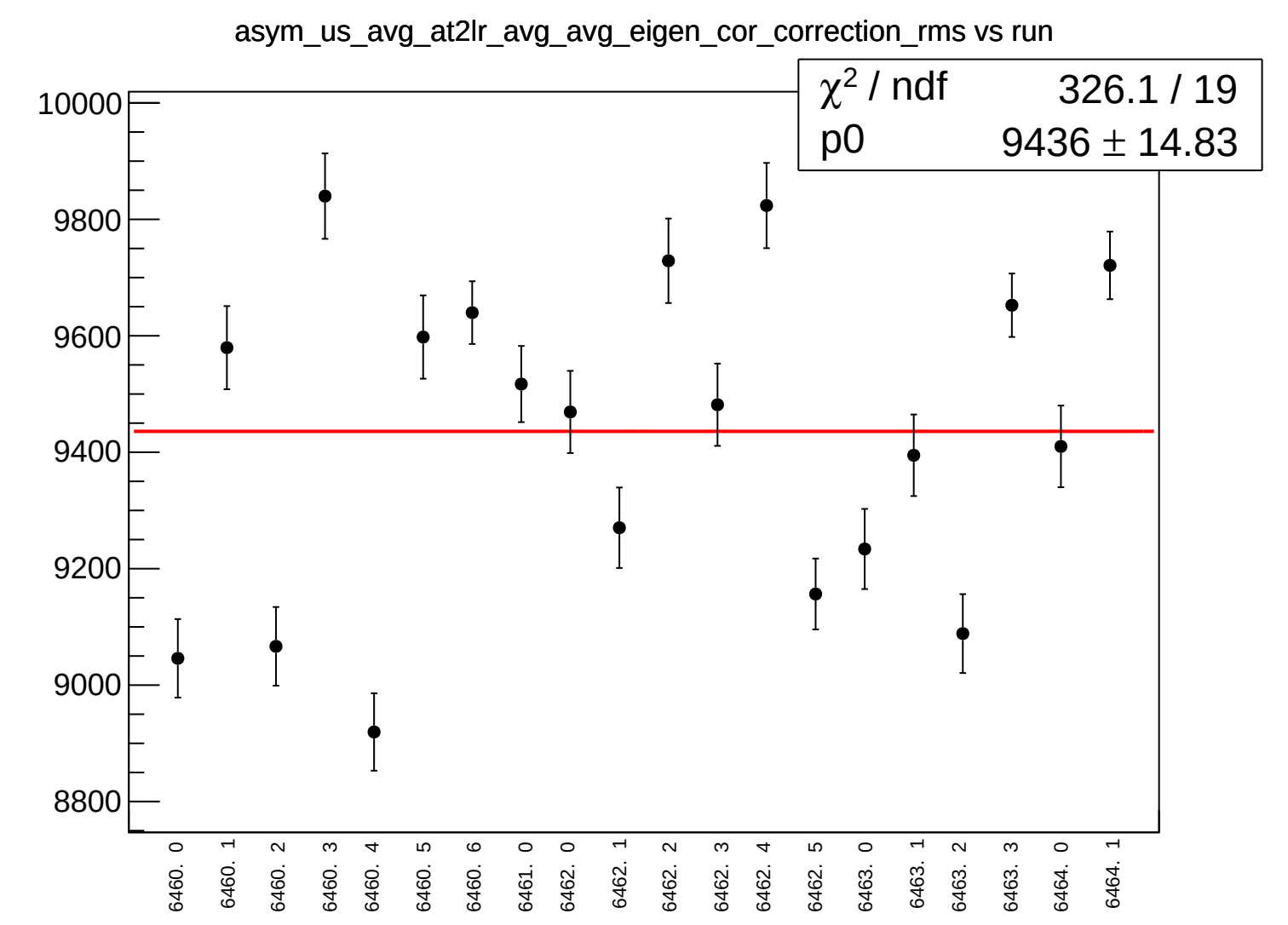

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 326.1 / 19
p0 9436 ± 14.83
10000
9800
9600
9400
9200
9000
8800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

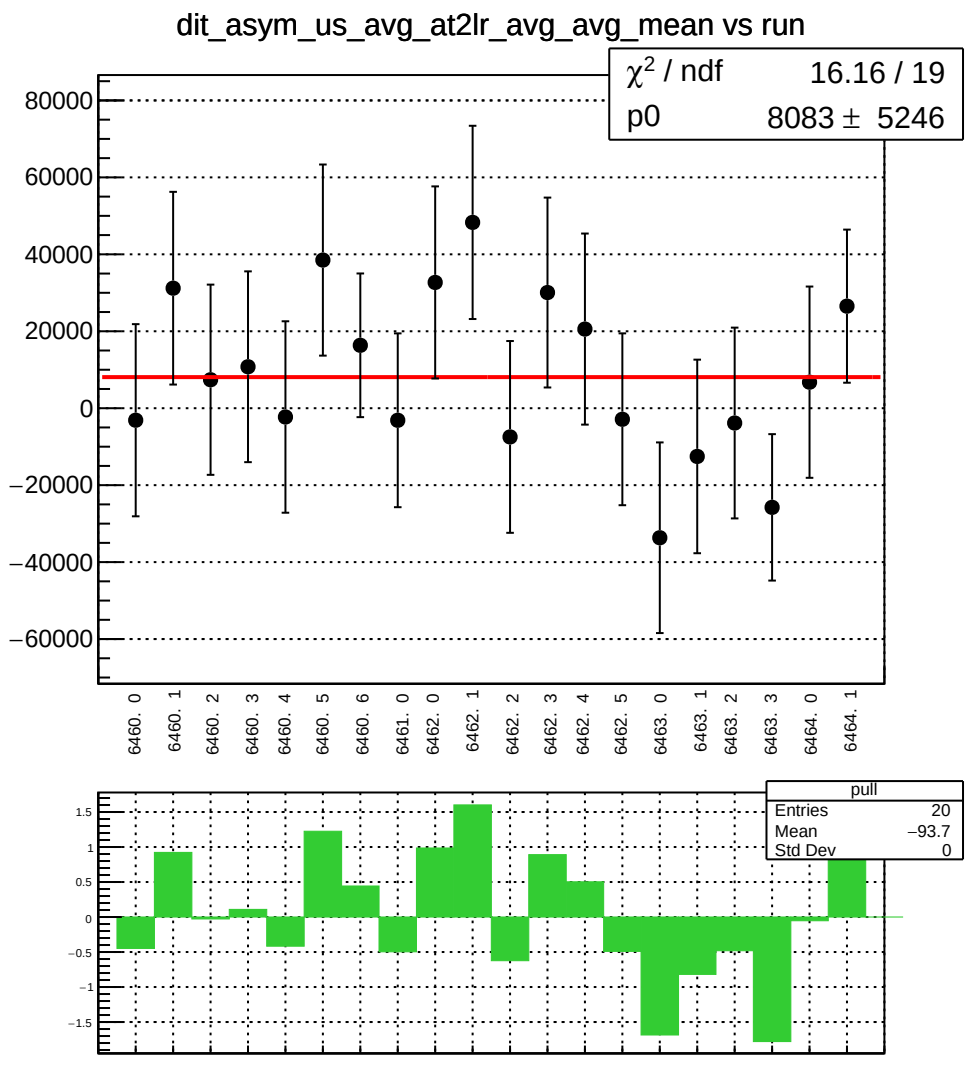

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 17.77 / 19
p0 8244 ± 5163
80000
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −54.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

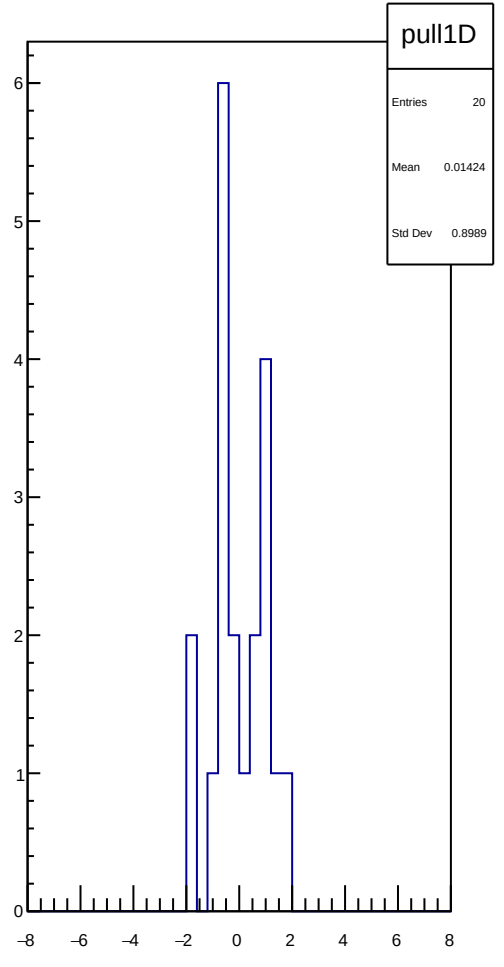

pull1D
Entries 20
Mean 0.02371
Std Dev 0.9422
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

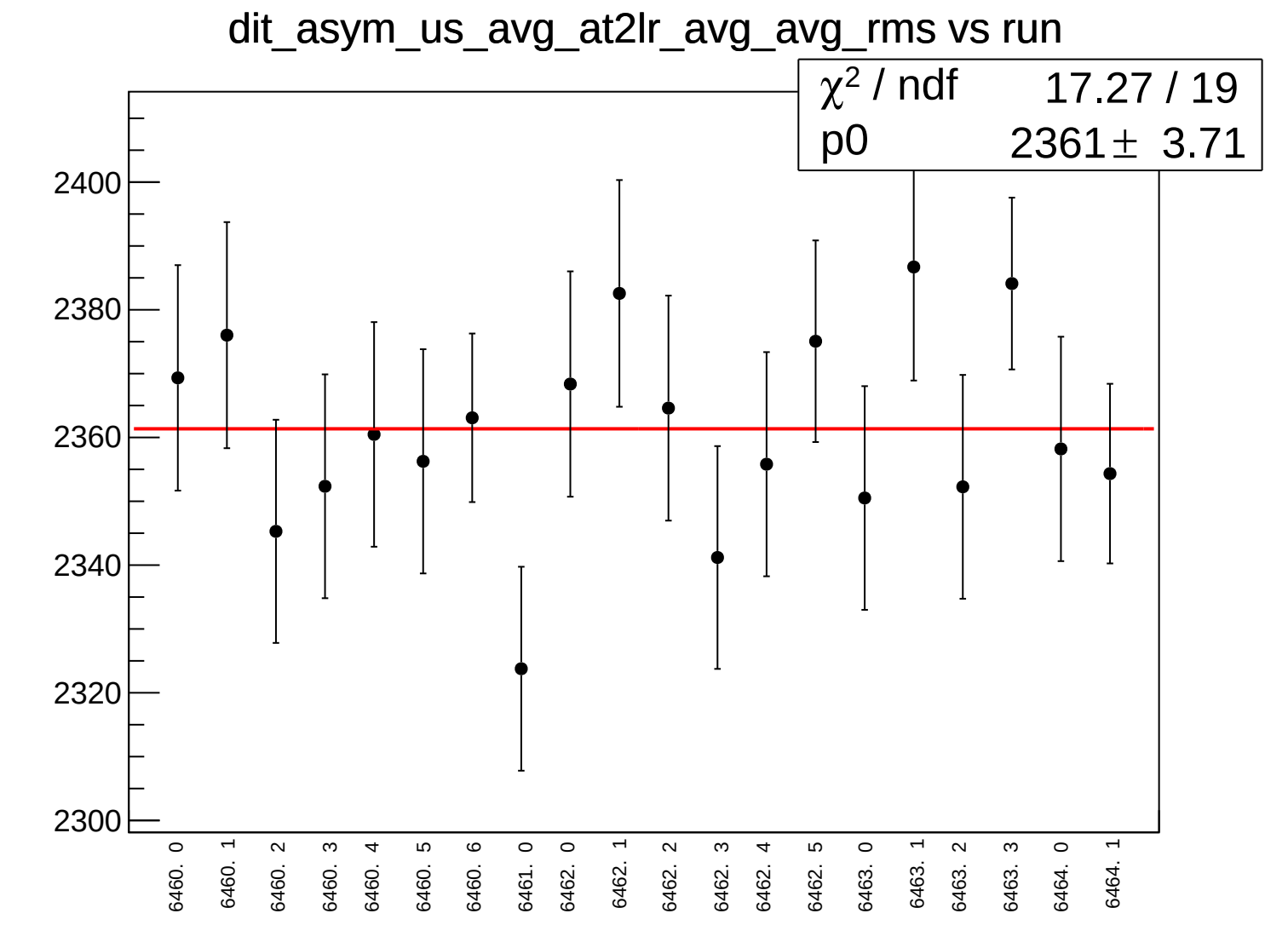

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 18.18 / 19
p0 2324 ± 3.651
2360
2340
2320
2300
2280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

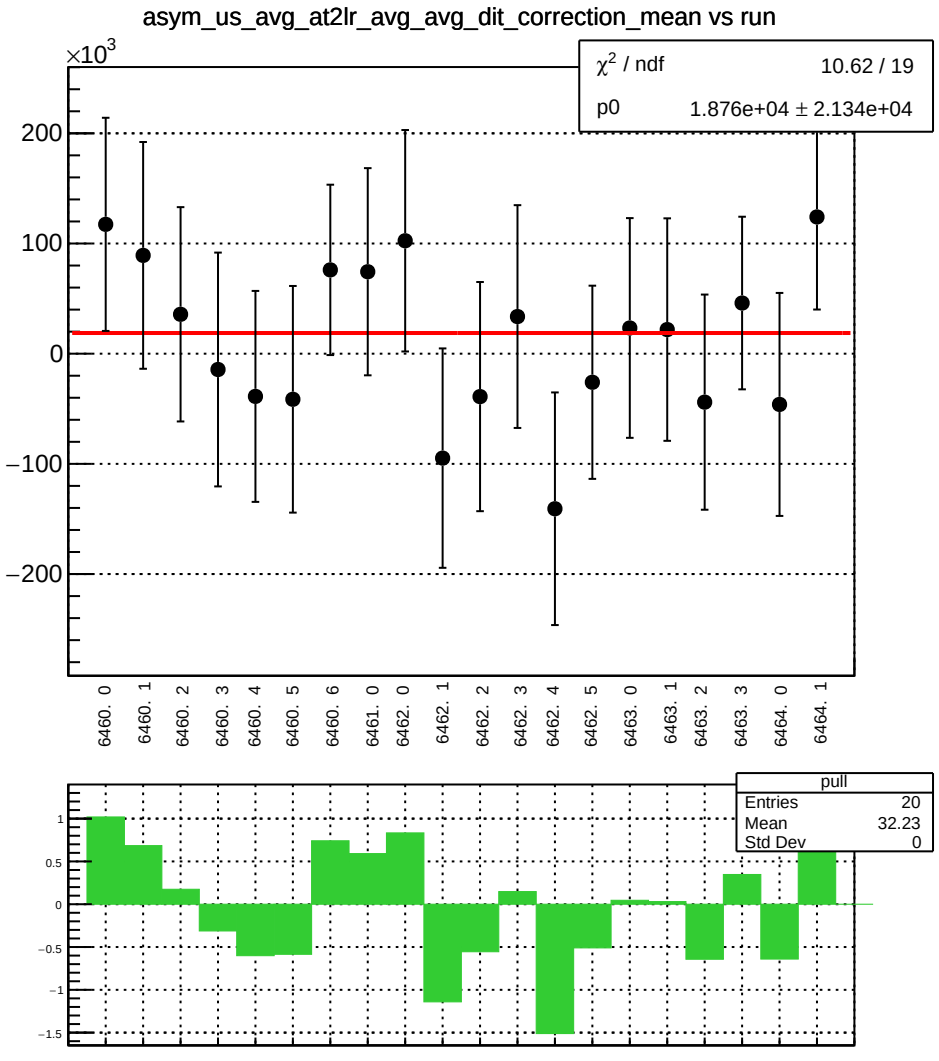

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 10.49 / 19
p0 1.894e+04 ± 2.097e+04
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.07
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02979
Std Dev 0.7237
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

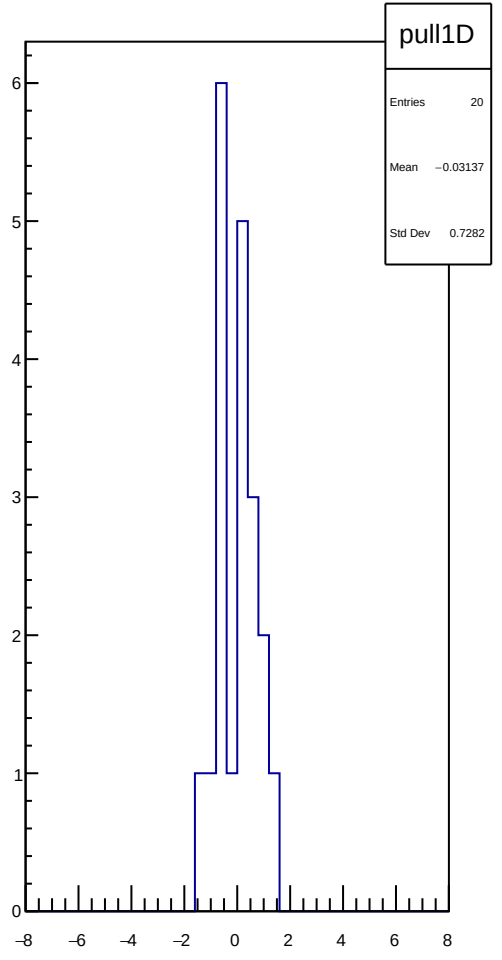

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 326.1 / 19
p0 9436 ± 14.83
10000
9800
9600
9400
9200
9000
8800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

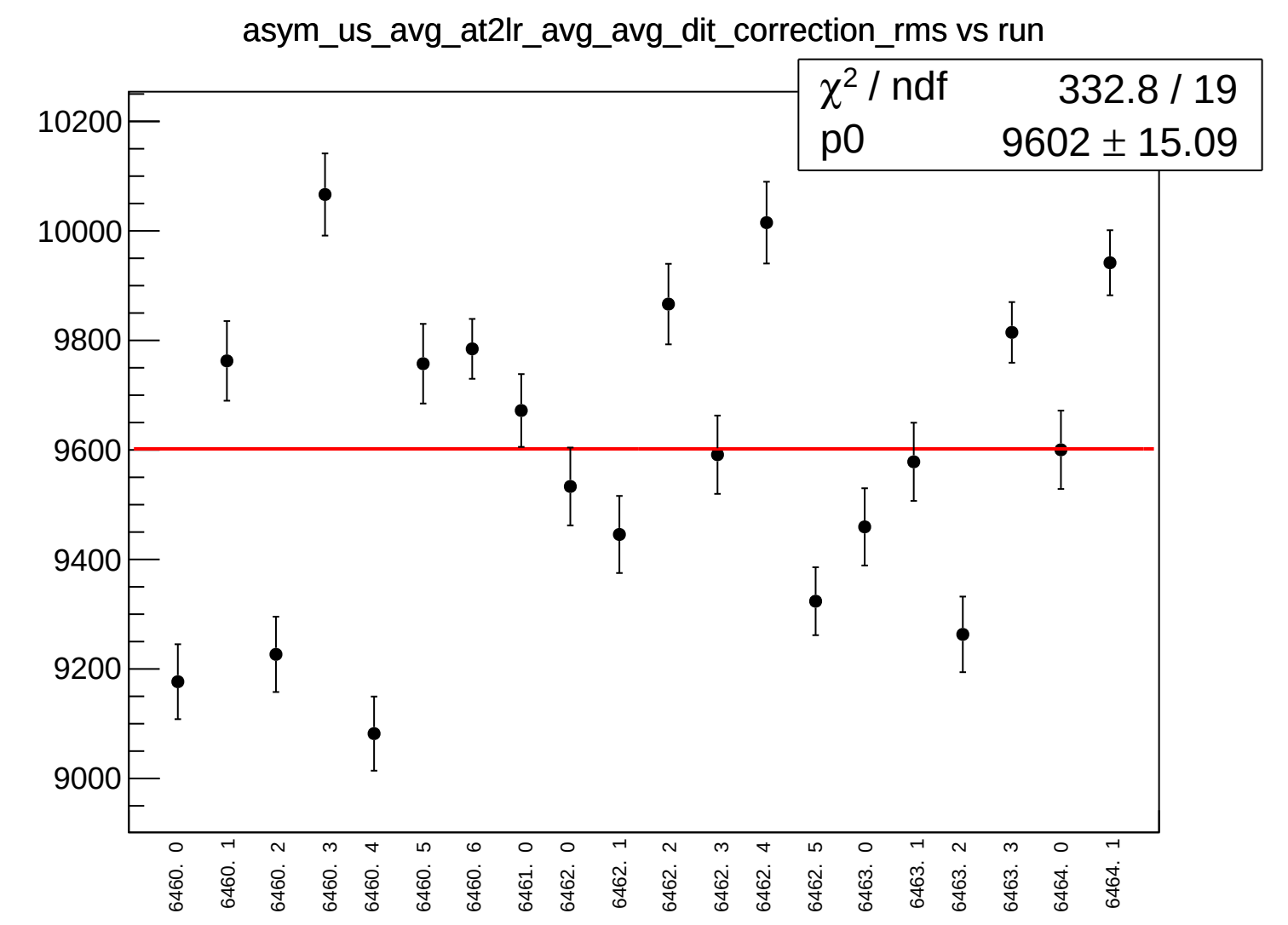

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 16.16 / 19
p0 8083 ± 5246
80000
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −93.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

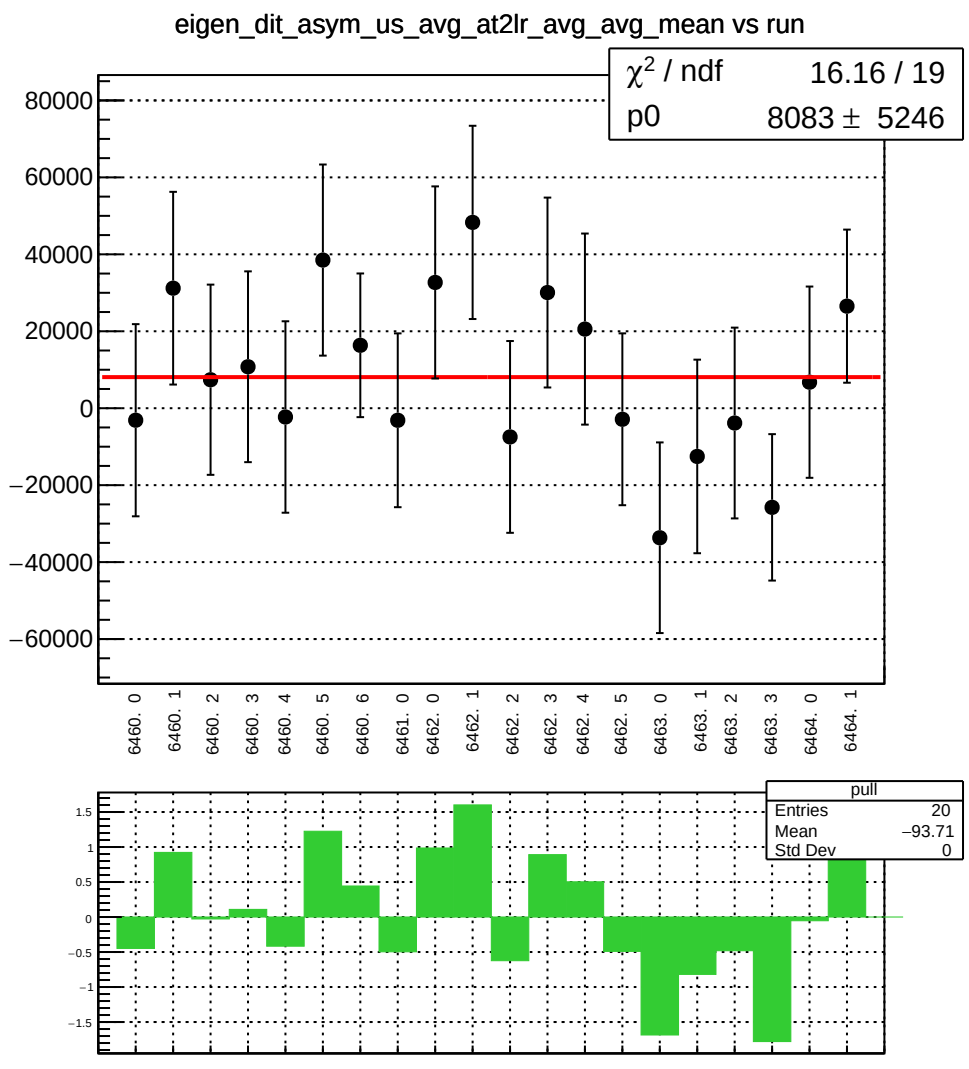

pull1D
Entries 20
Mean 0.01424
Std Dev 0.8989
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

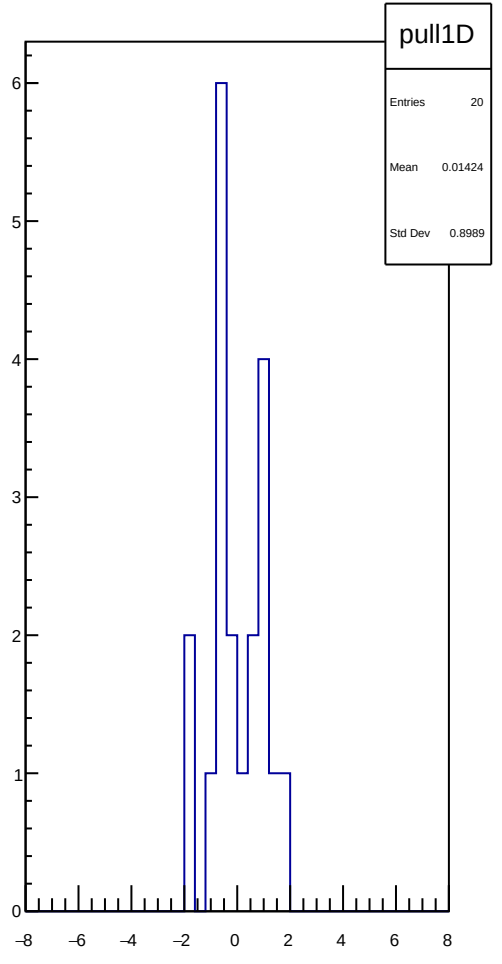

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 17.27 / 19
p0 2361 ± 3.71
2400
2380
2360
2340
2320
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

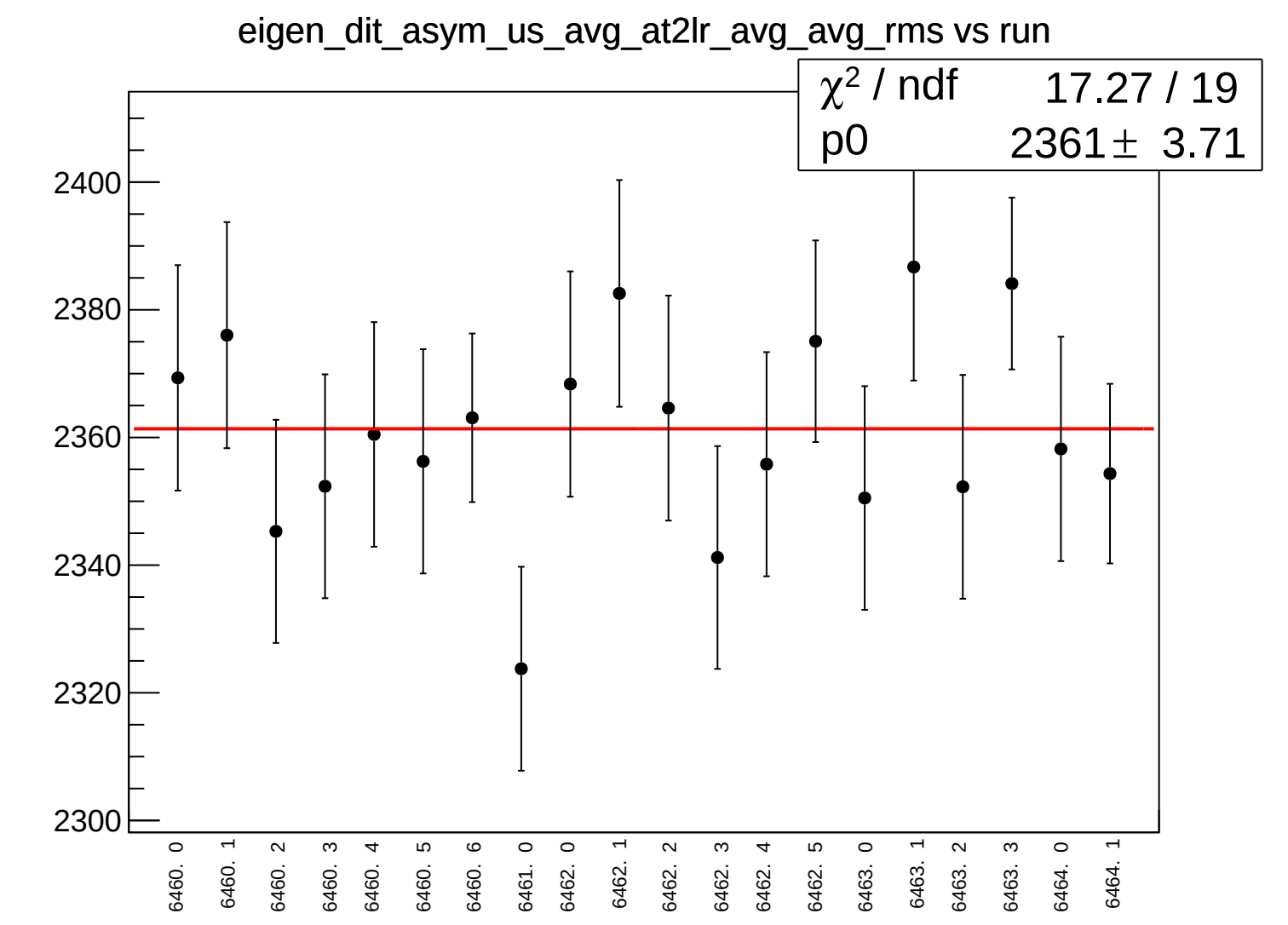

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 10.62 / 19
p0 1.876e+04 ± 2.134e+04
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.23
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

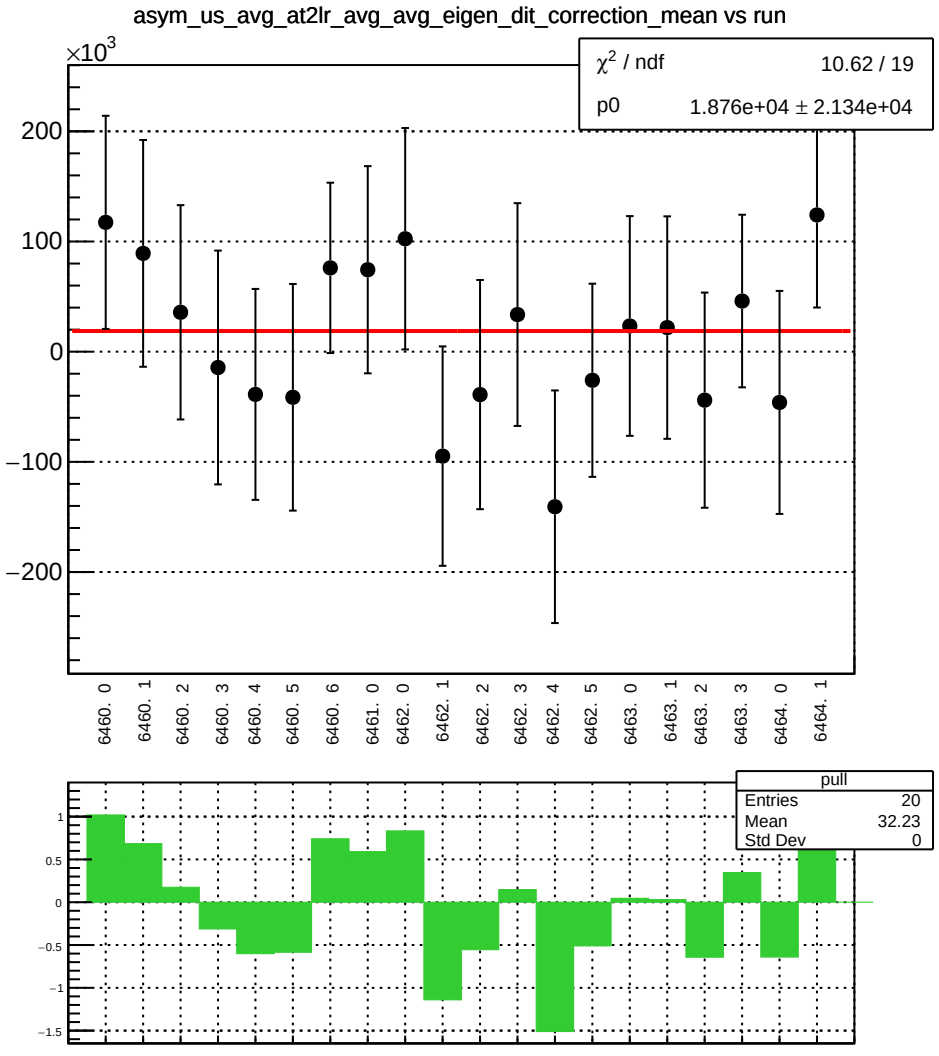

pull1D
Entries 20
Mean −0.03137
Std Dev 0.7282
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

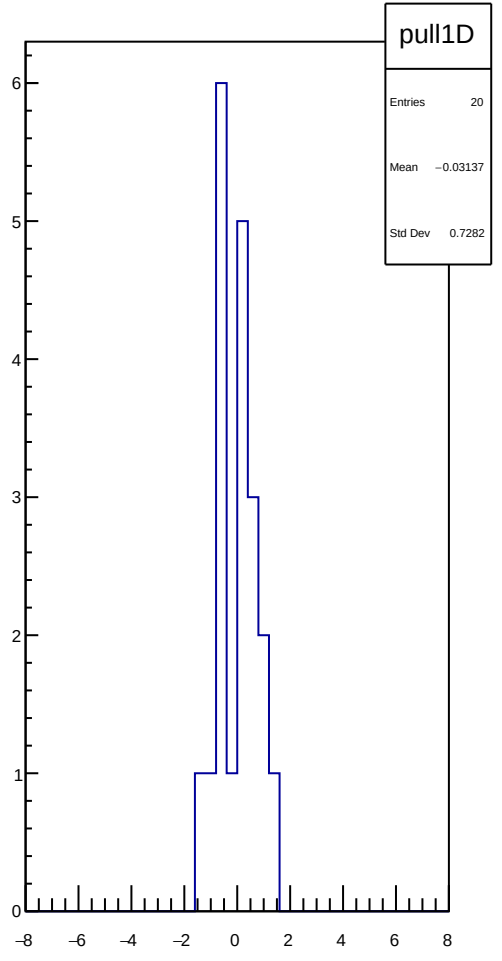

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 332.8 / 19
p0 9602 ± 15.09
10200
10000
9800
9600
9400
9200
9000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

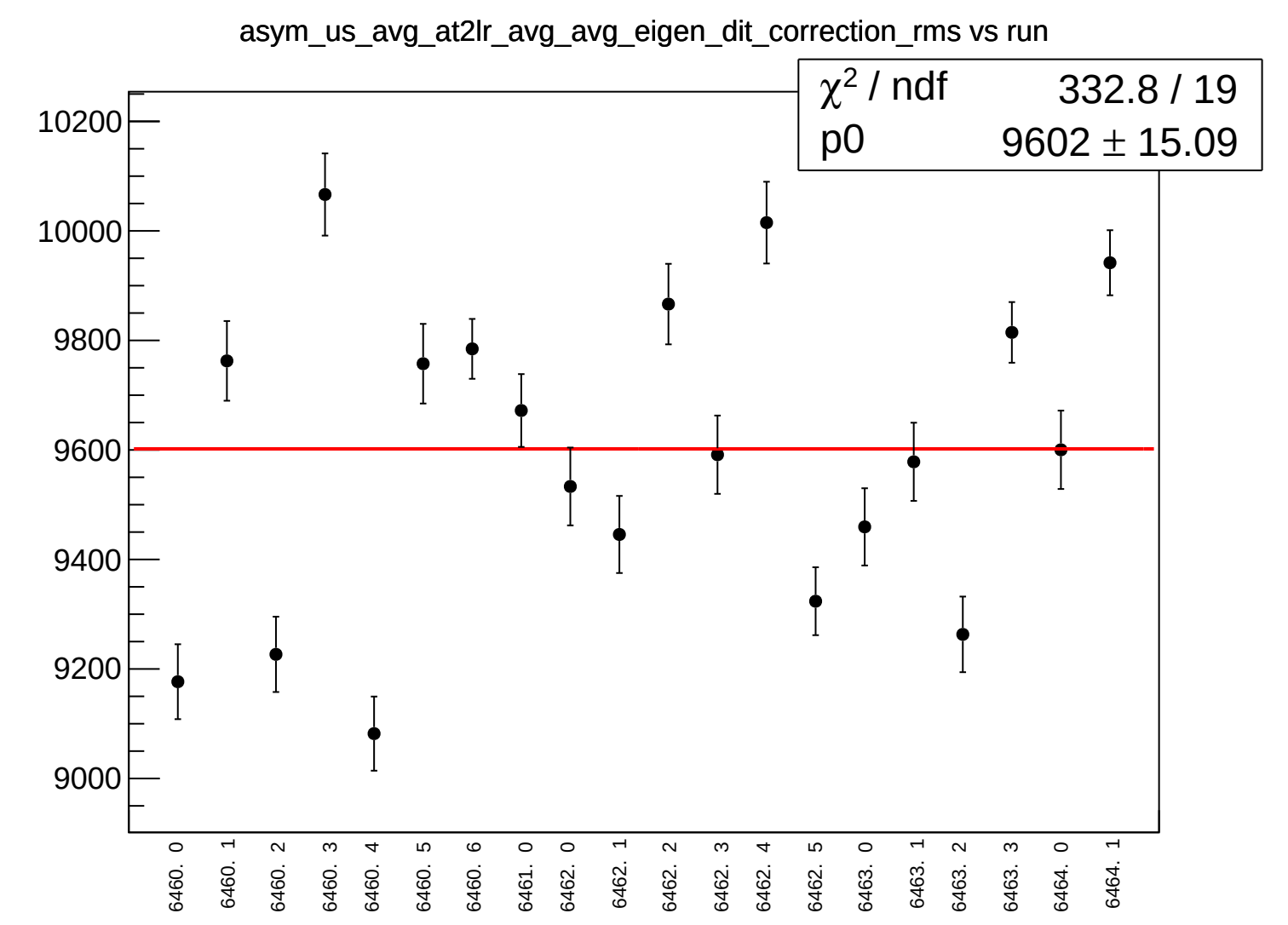

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 16.16 / 19
p0 8083 ± 5246
80000
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −93.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

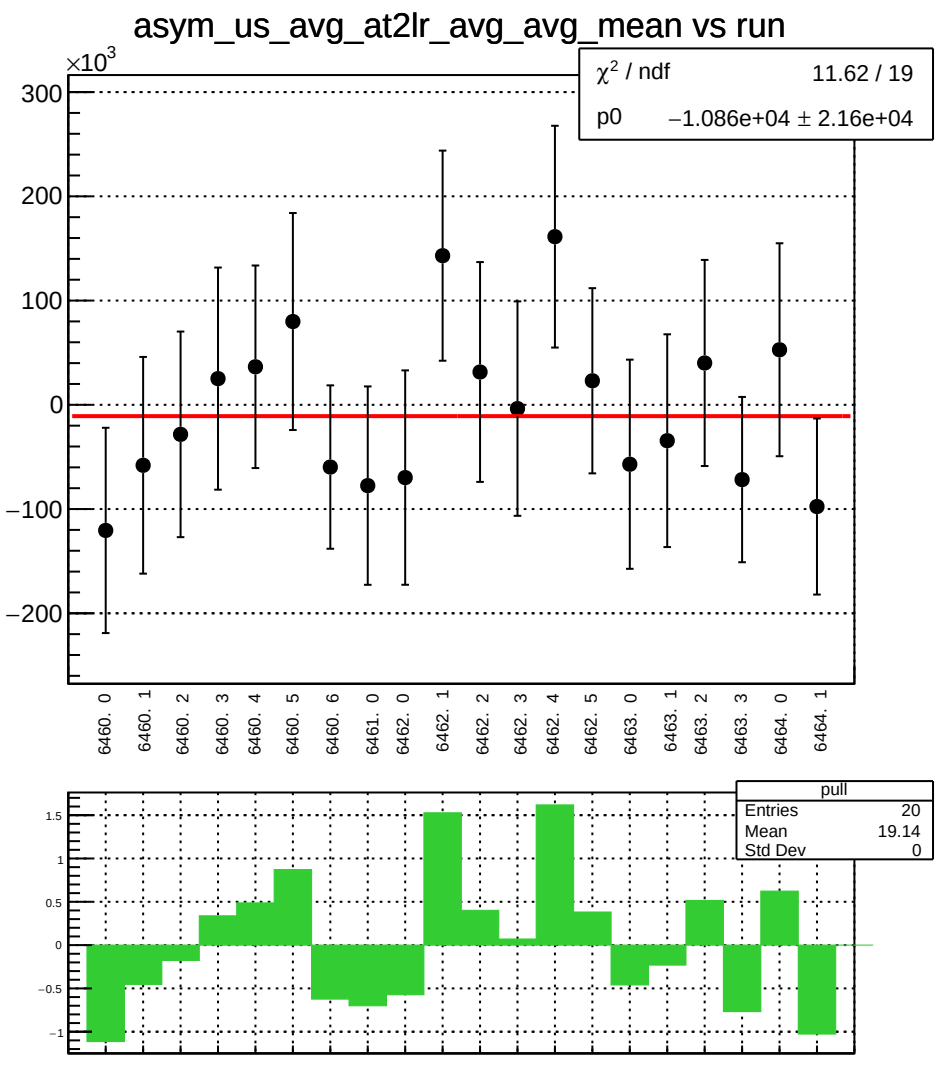

pull1D
Entries 20
Mean 0.01424
Std Dev 0.8989
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

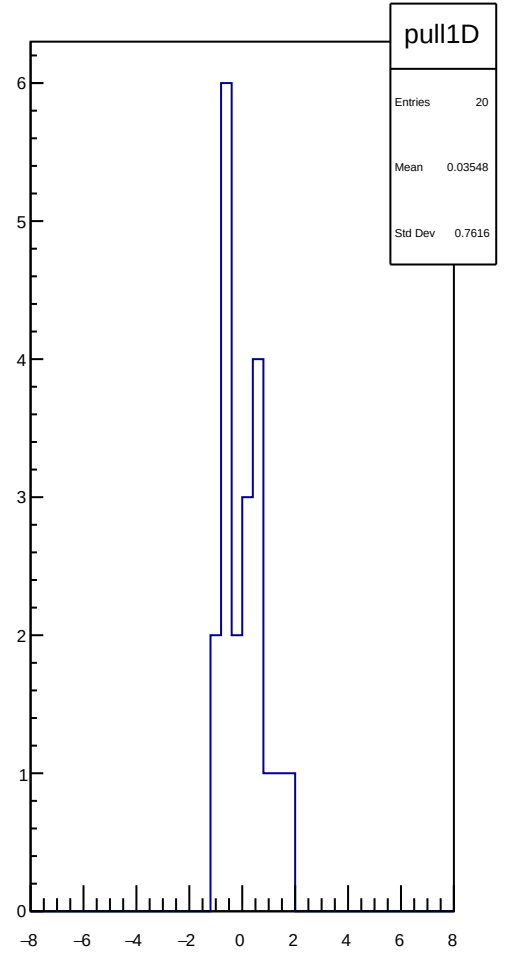

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 17.27 / 19
p0 2361 ± 3.71
2400
2380
2360
2340
2320
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

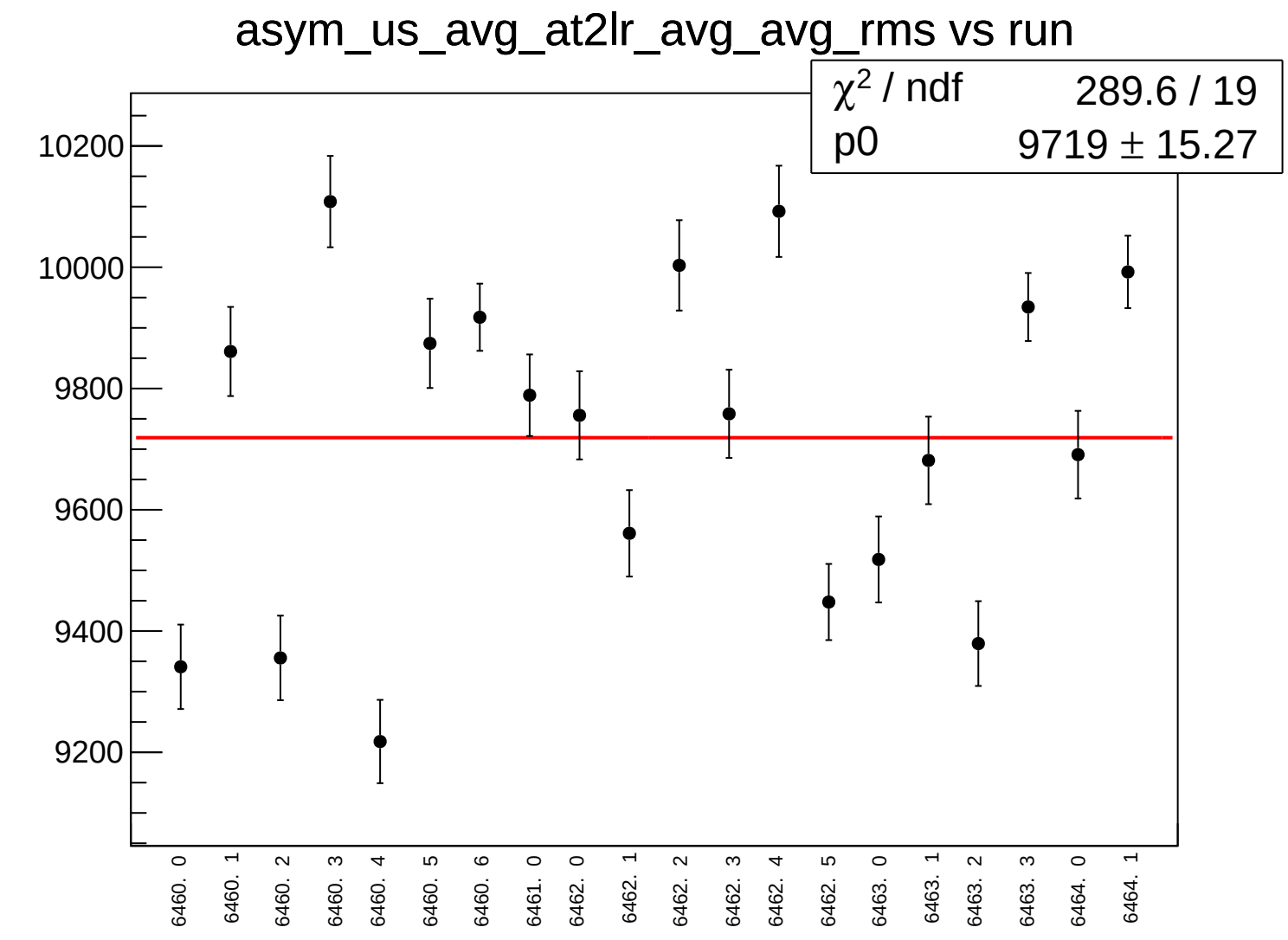

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 10.62 / 19
p0 1.876e+04 ± 2.134e+04
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.23
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

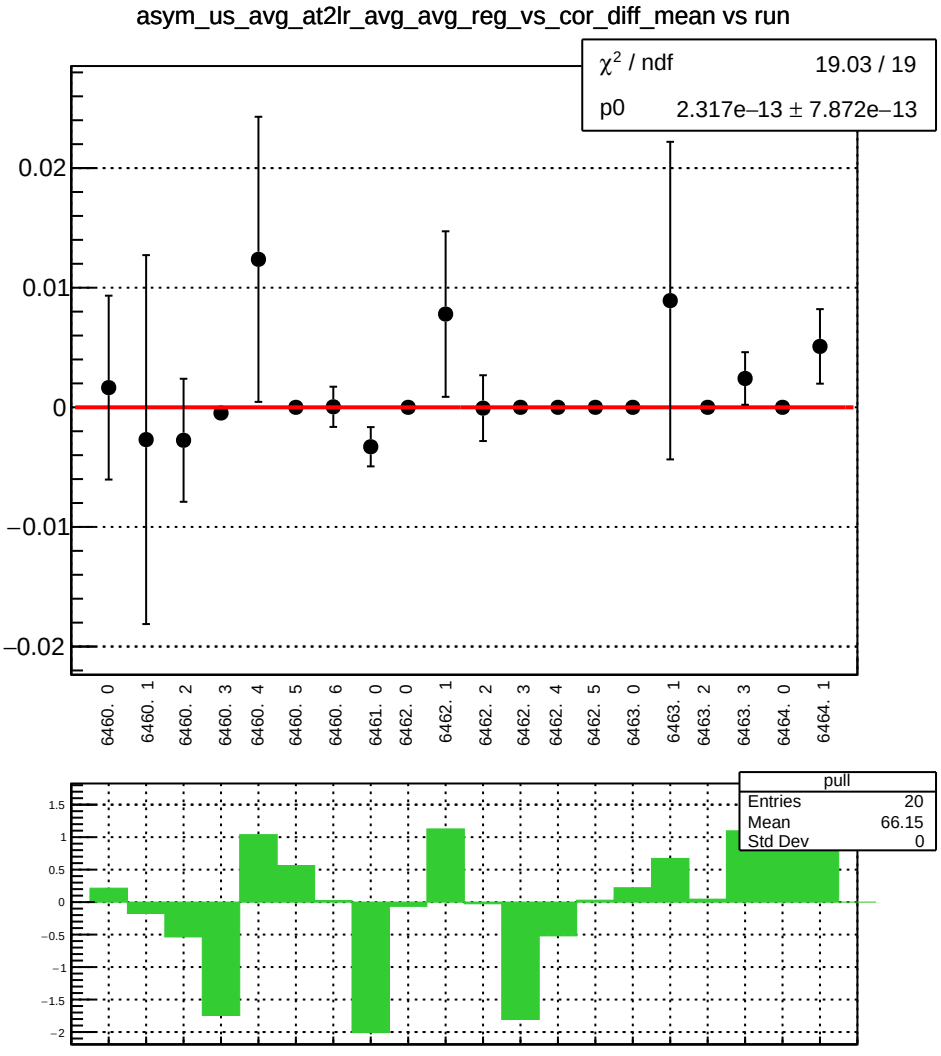

pull1D
Entries 20
Mean −0.03137
Std Dev 0.7282
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

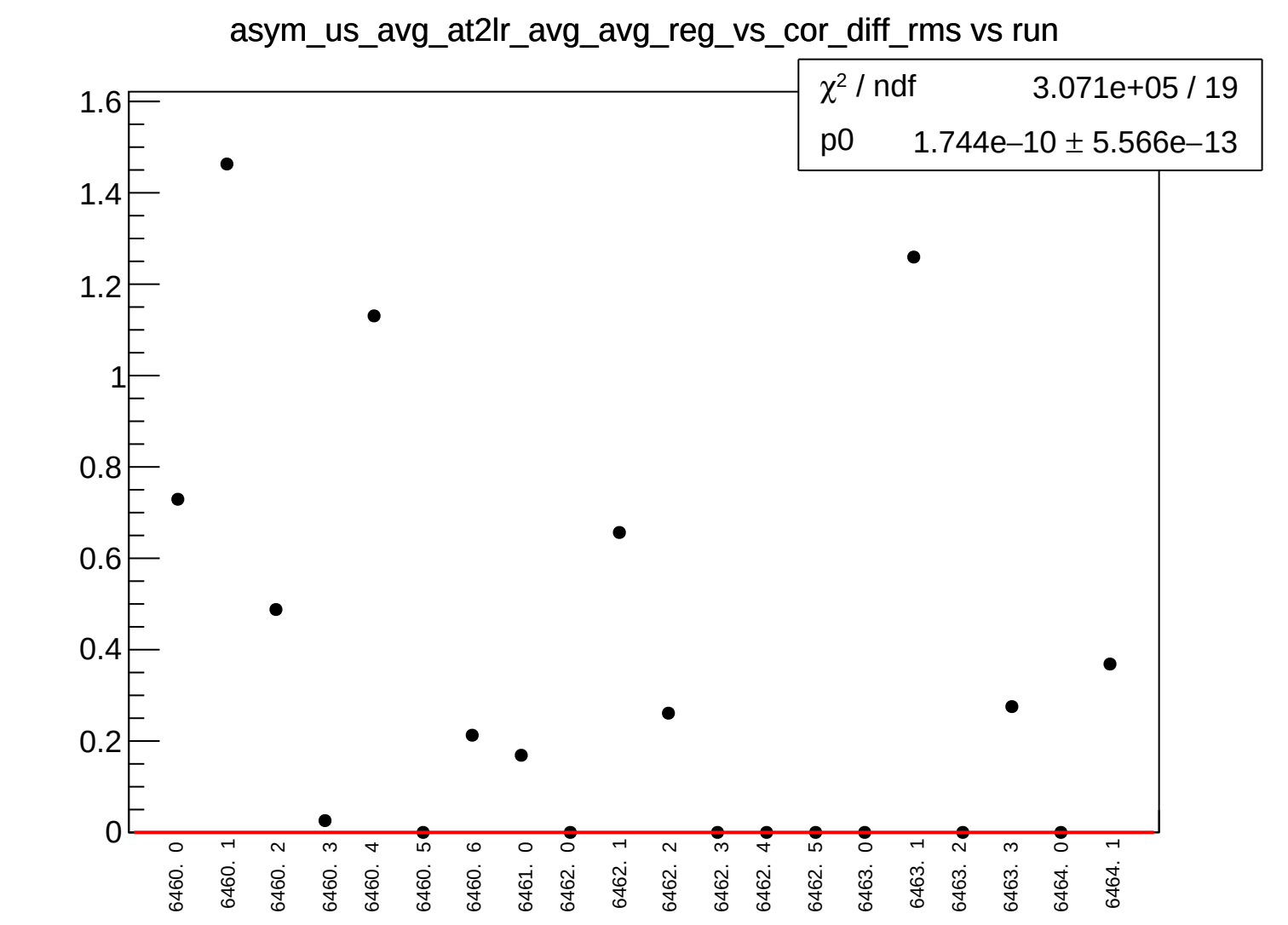

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 332.8 / 19
p0 9602 ± 15.09
10200
10000
9800
9600
9400
9200
9000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

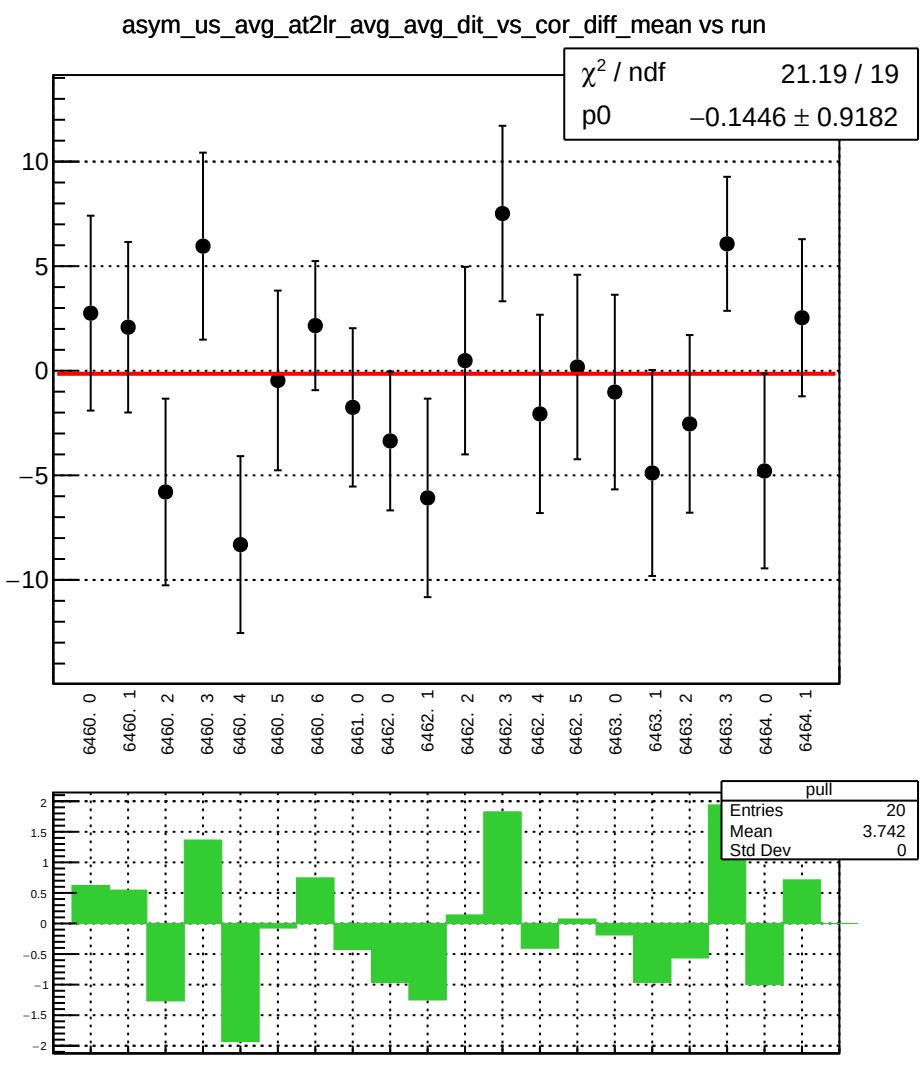

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 11.62 / 19
p0 −1.086e+04 ± 2.16e+04
300
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1

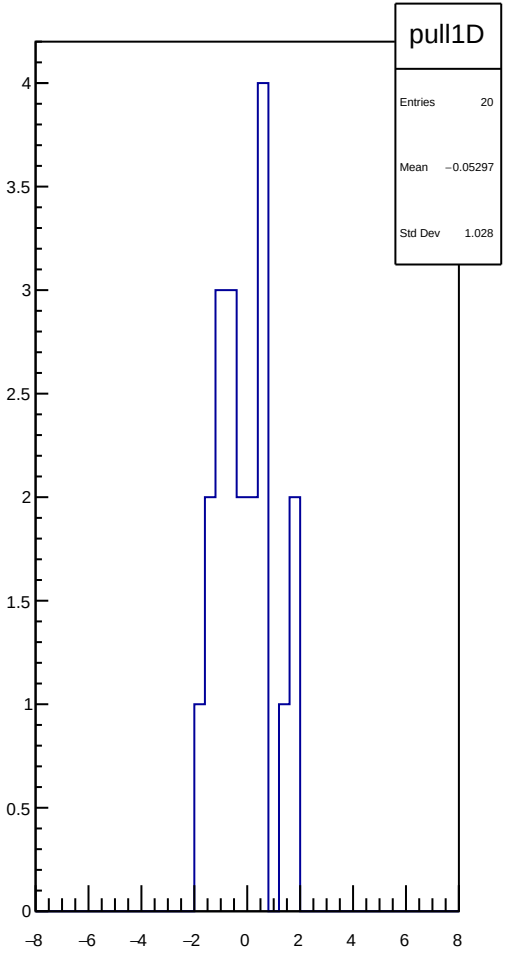

pull1D
Entries 20
Mean 0.03548
Std Dev 0.7616
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

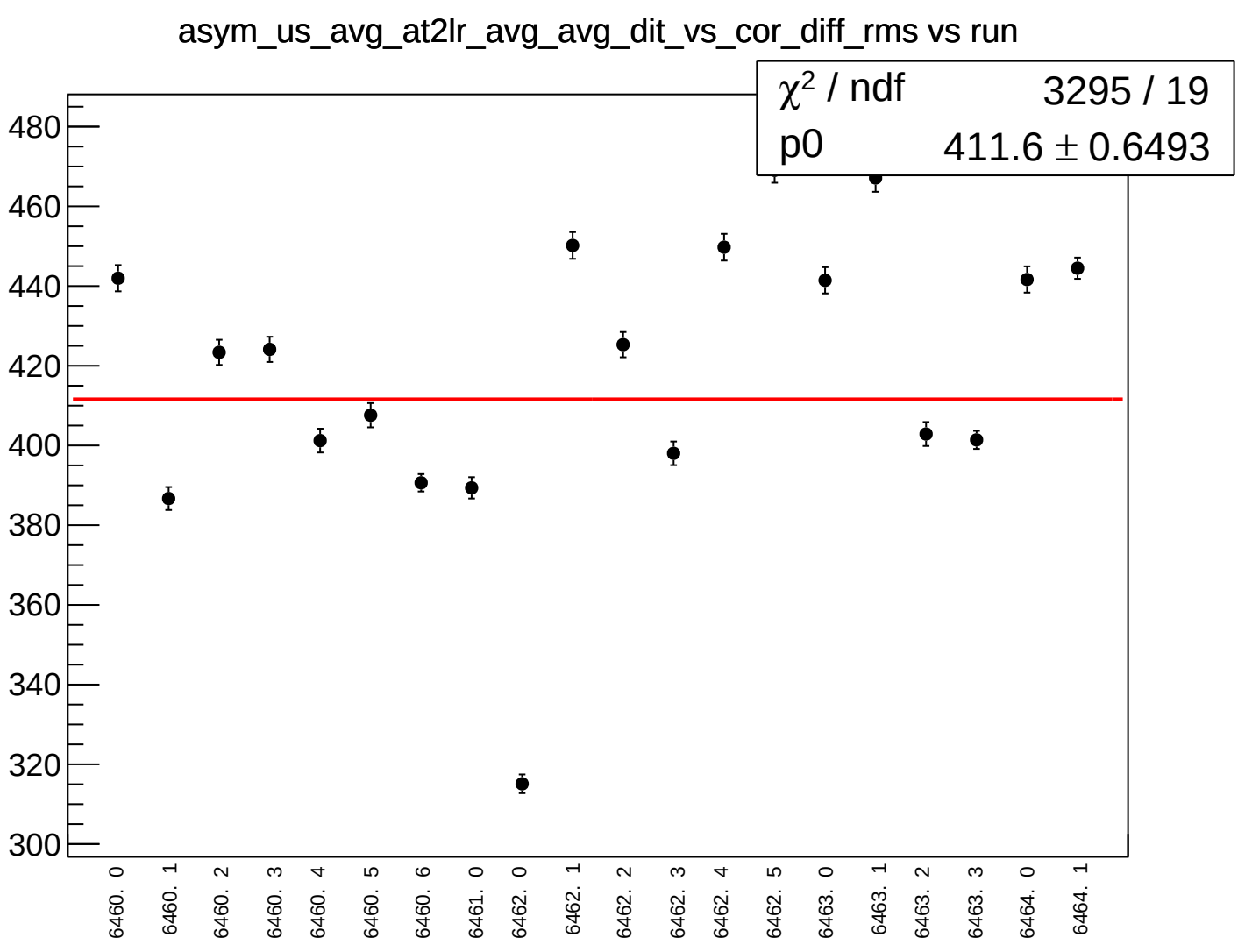

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 289.6 / 19
p0 9719 ± 15.27
10200
10000
9800
9600
9400
9200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

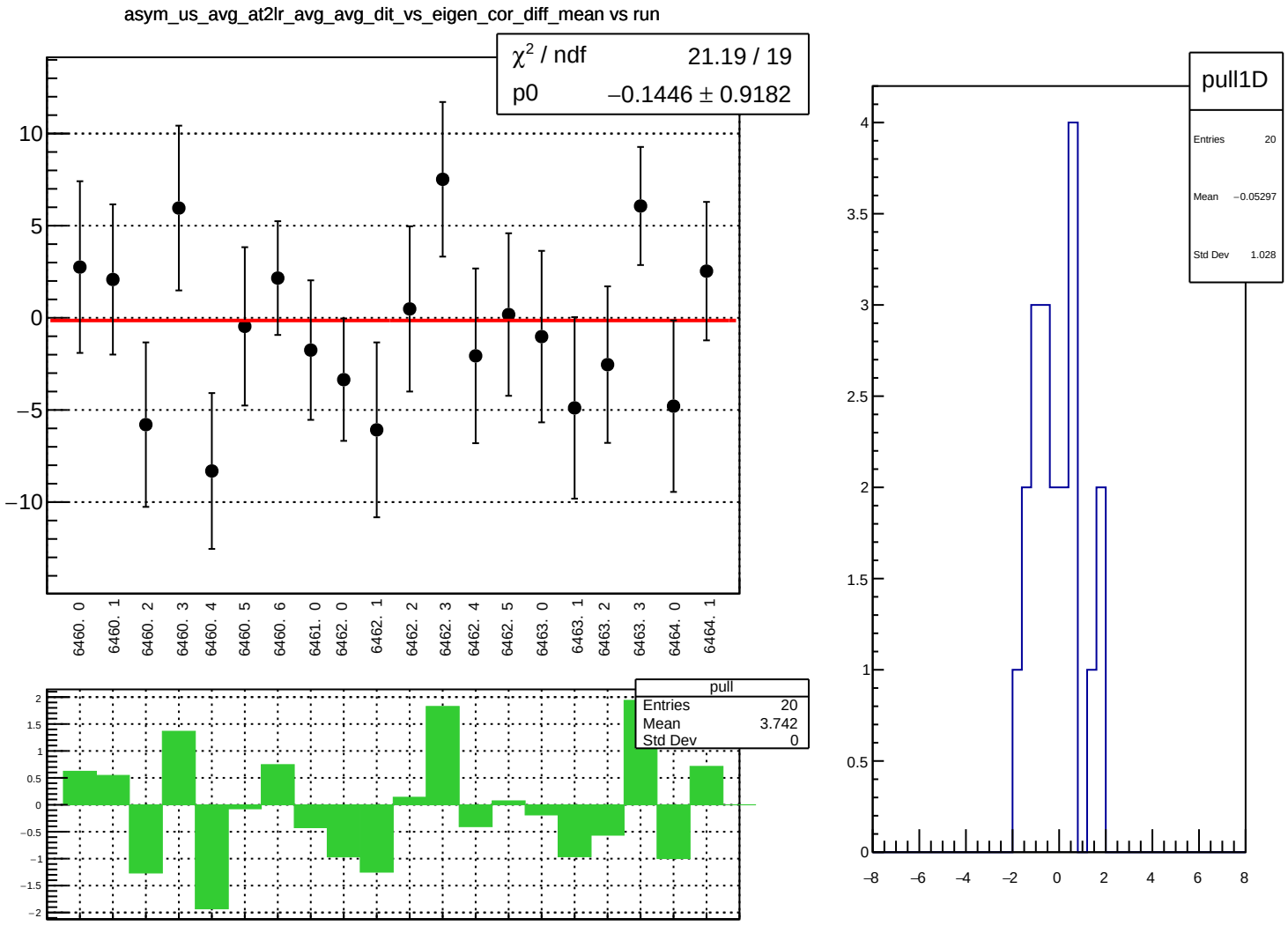

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 19.03 / 19
p0 2.317e−13 ± 7.872e−13
0.02
0.01
0
−0.01
−0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 66.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.03954
Std Dev 0.9747
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

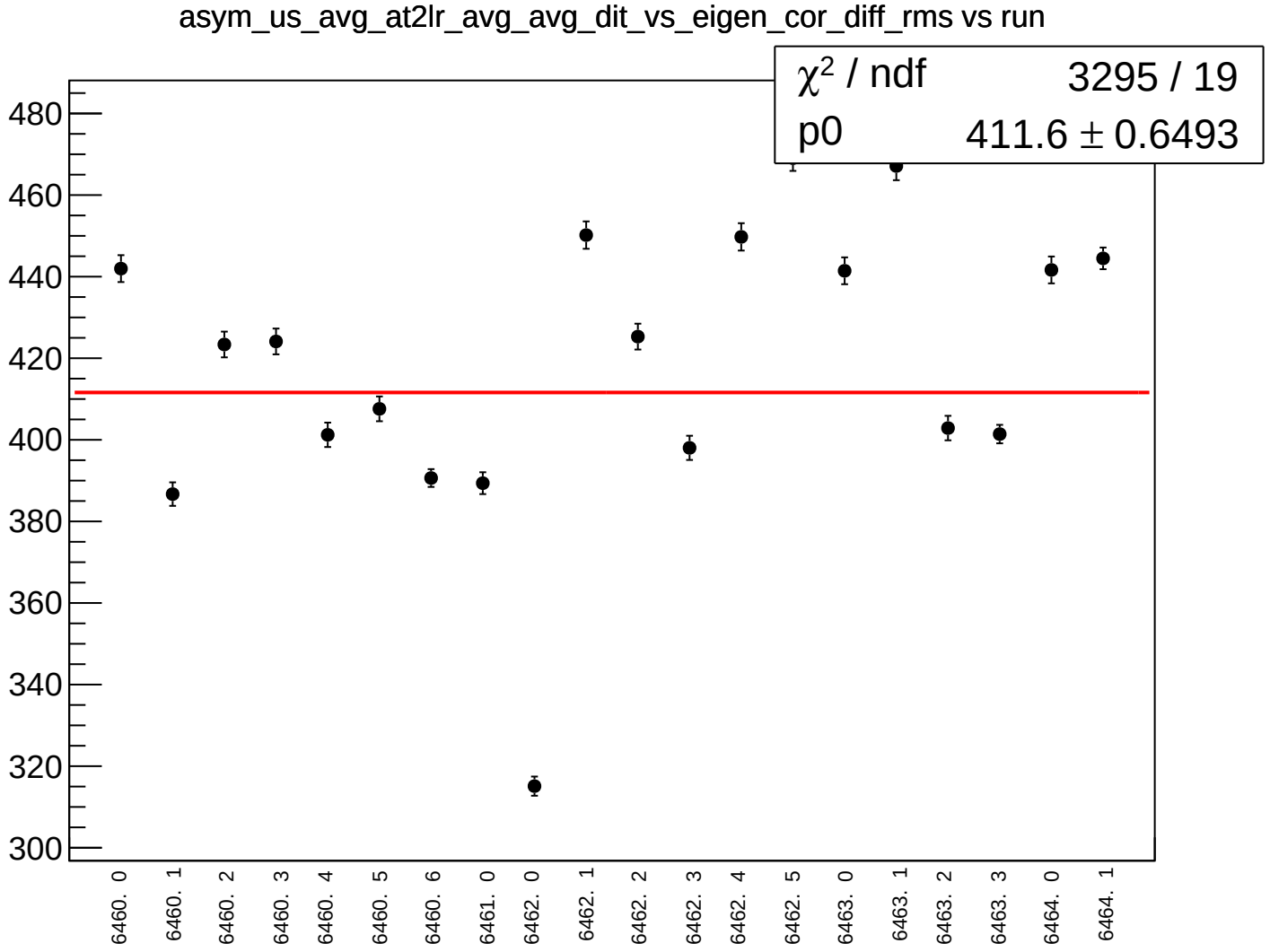

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.071e+05 / 19
p0 1.744e−10 ± 5.566e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

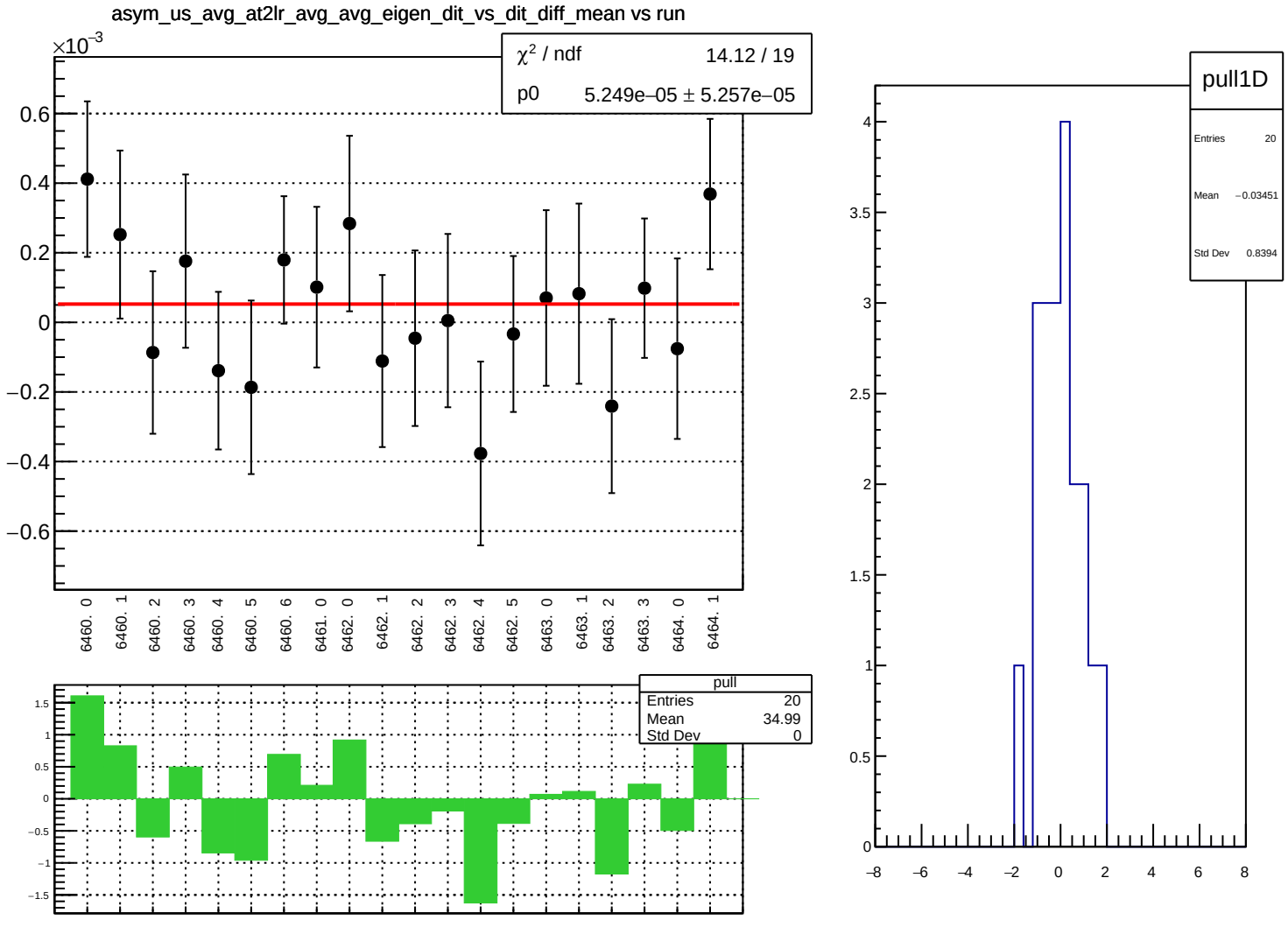

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 21.19 / 19
p0 −0.1446 ± 0.9182
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.742
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

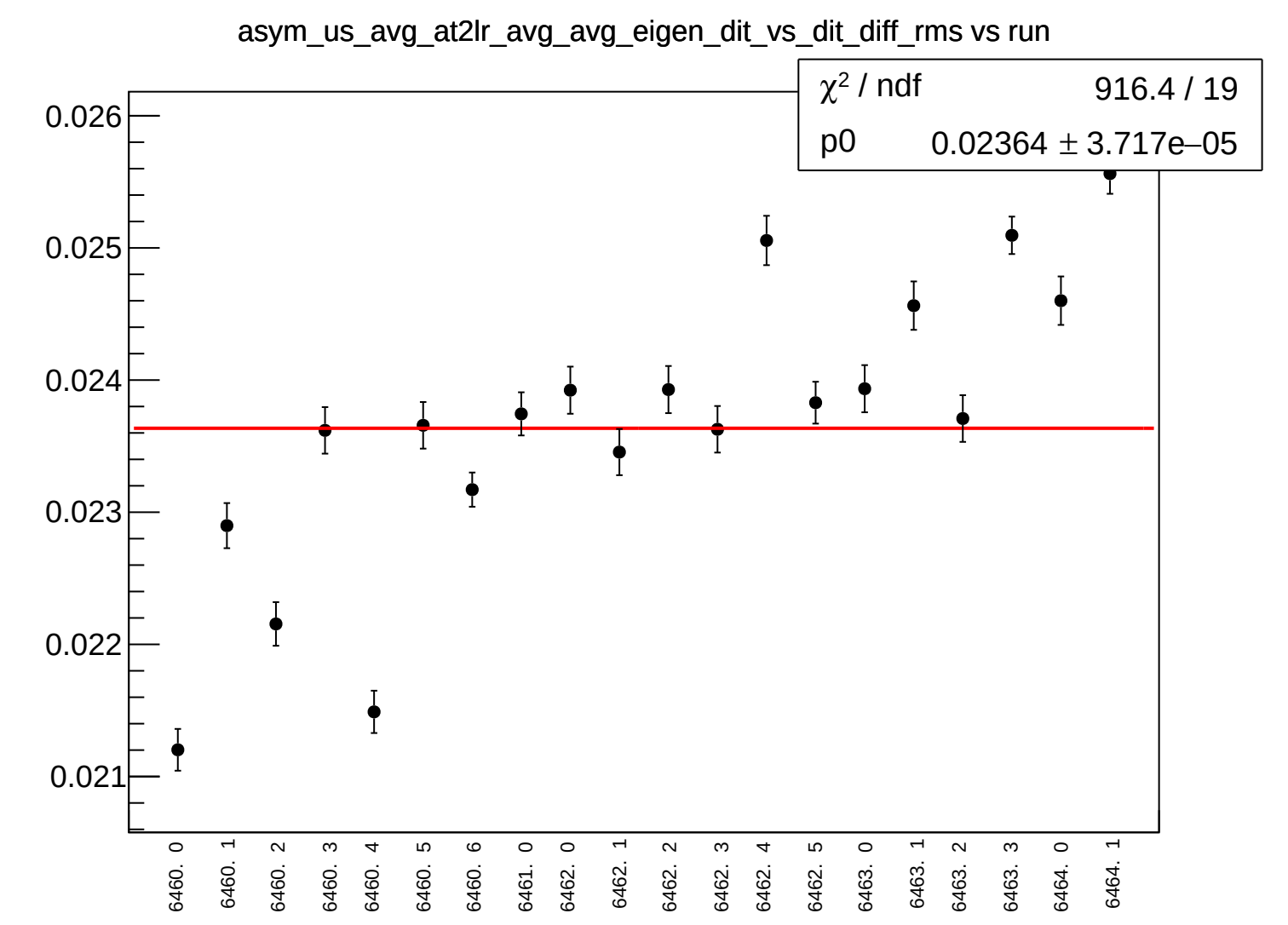

pull1D
Entries 20
Mean −0.05297
Std Dev 1.028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

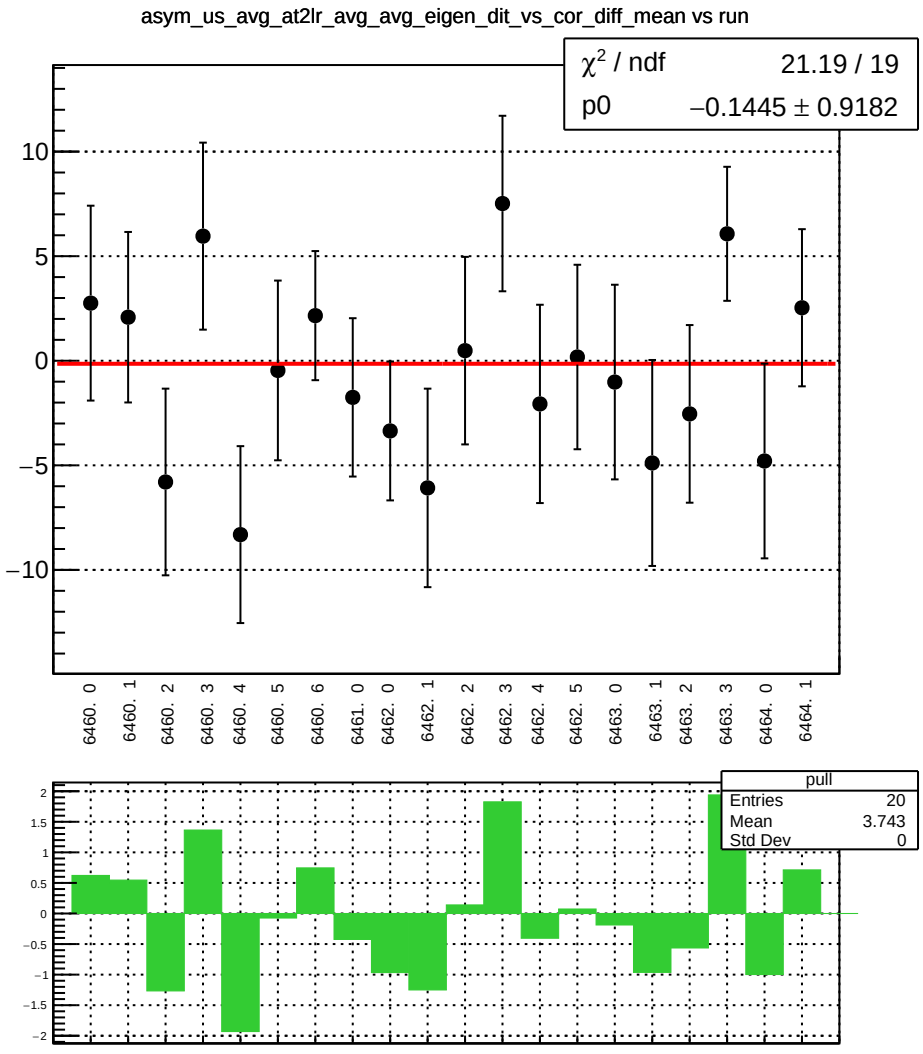

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3295 / 19
p0 411.6 ± 0.6493
480
460
440
420
400
380
360
340
320
300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

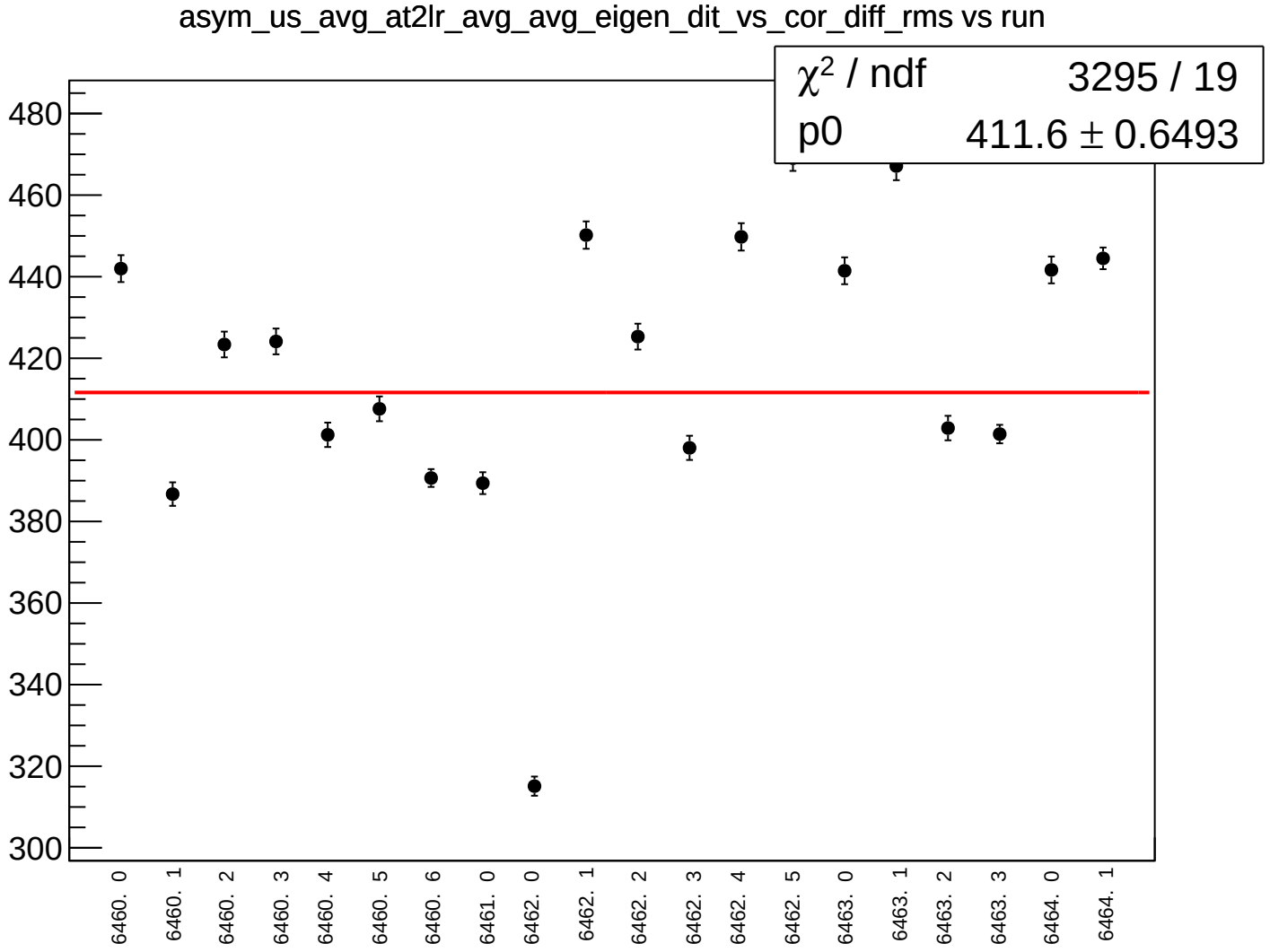

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.19 / 19
p0 −0.1446 ± 0.9182
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.742
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.05297
Std Dev 1.028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

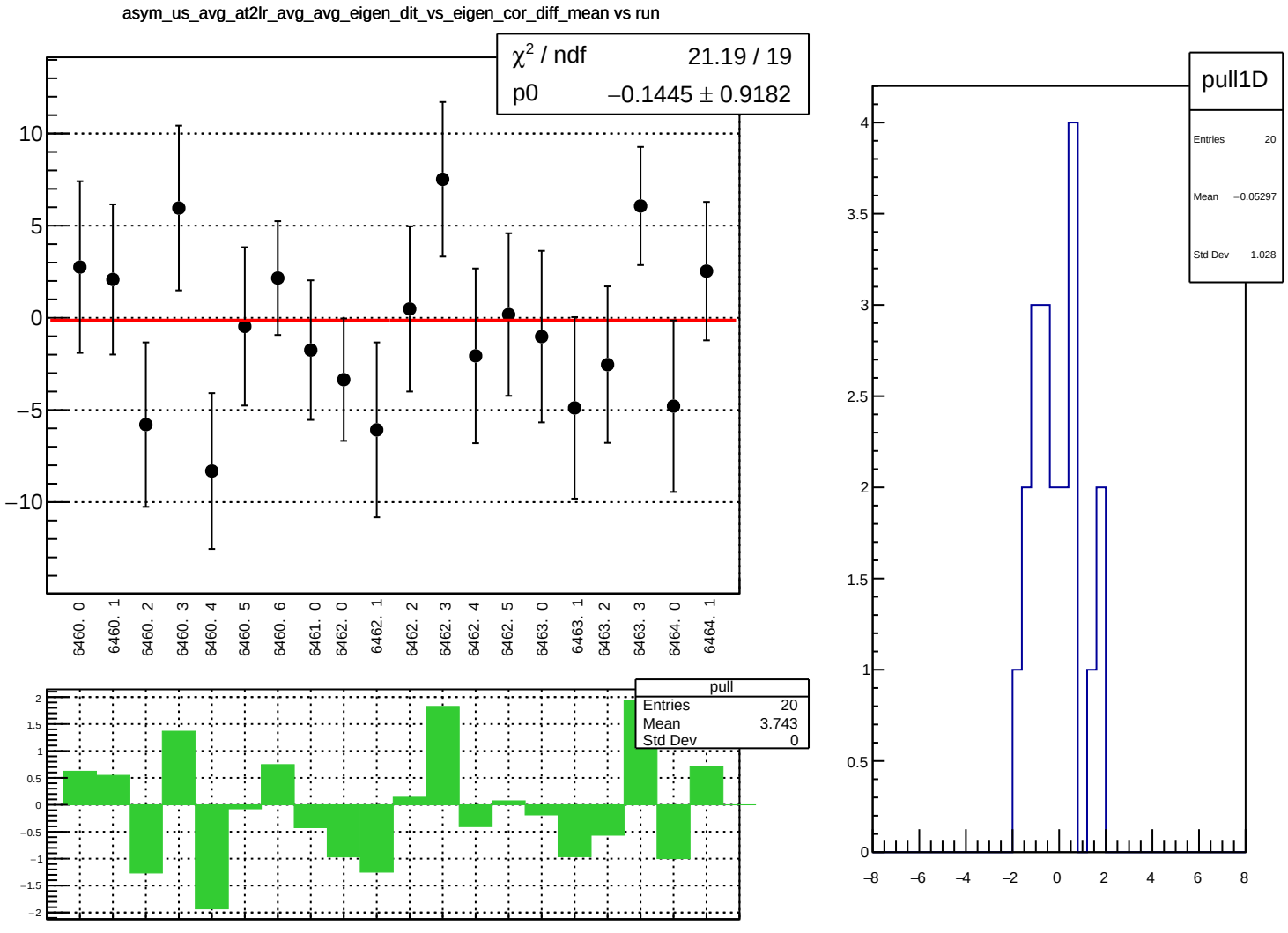

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3295 / 19
p0 411.6 ± 0.6493
480
460
440
420
400
380
360
340
320
300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

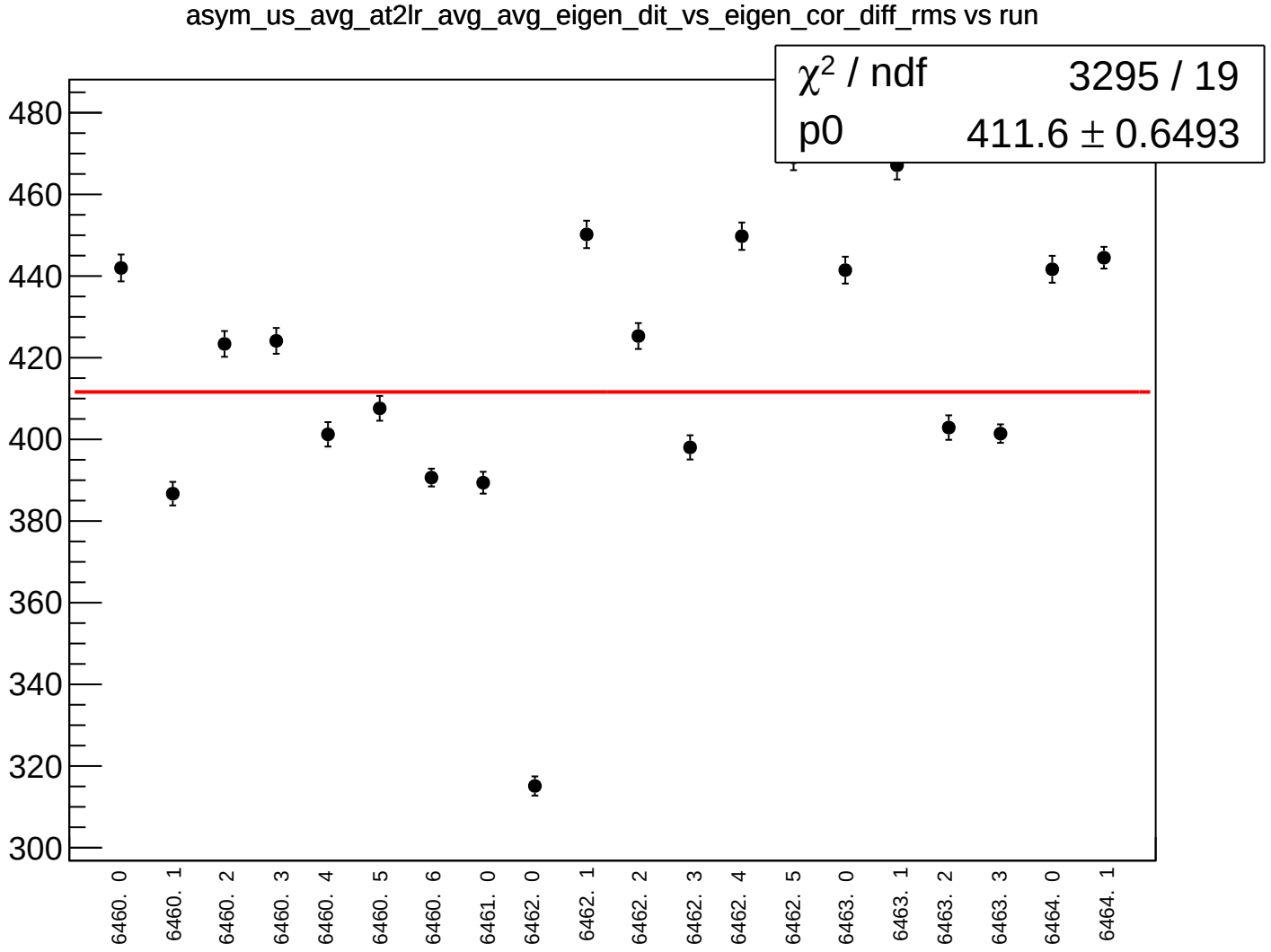

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.12 / 19
p0 5.249e−05 ± 5.257e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03451
Std Dev 0.8394
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

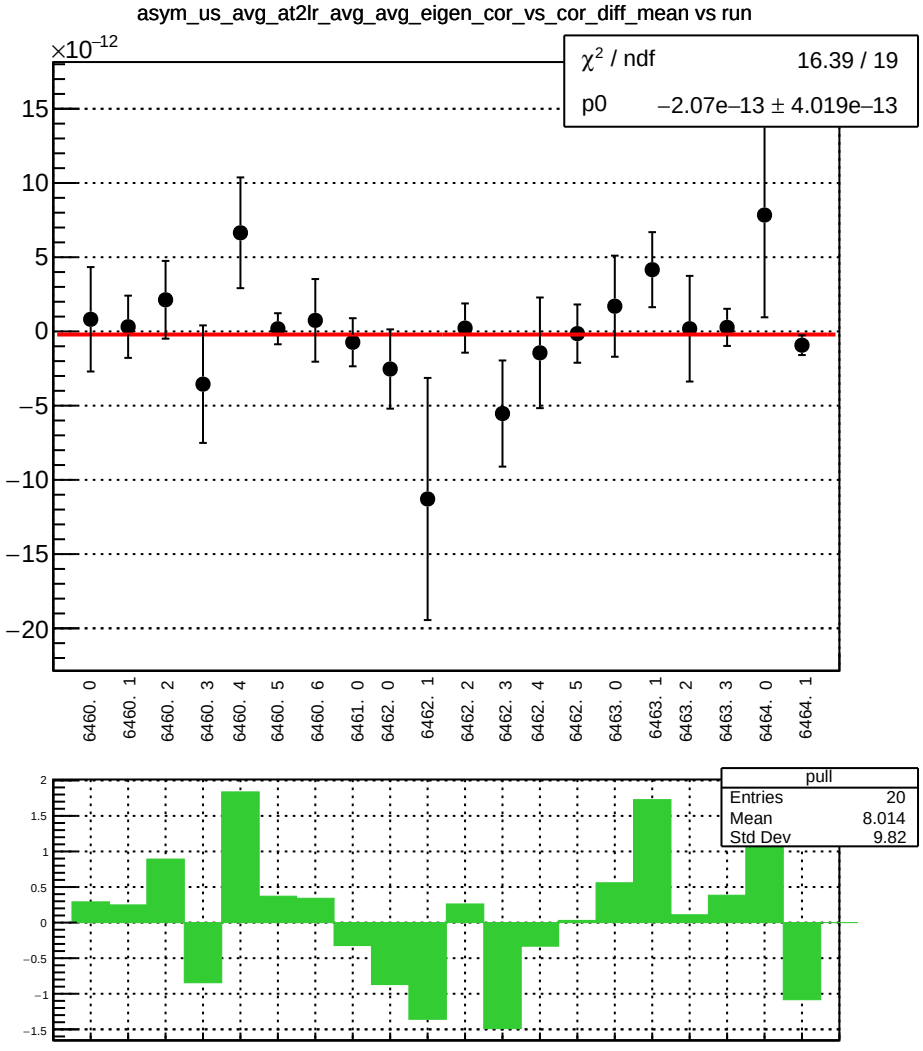

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 916.4 / 19
p0 0.02364 ± 3.717e–05
0.026
0.025
0.024
0.023
0.022
0.021
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

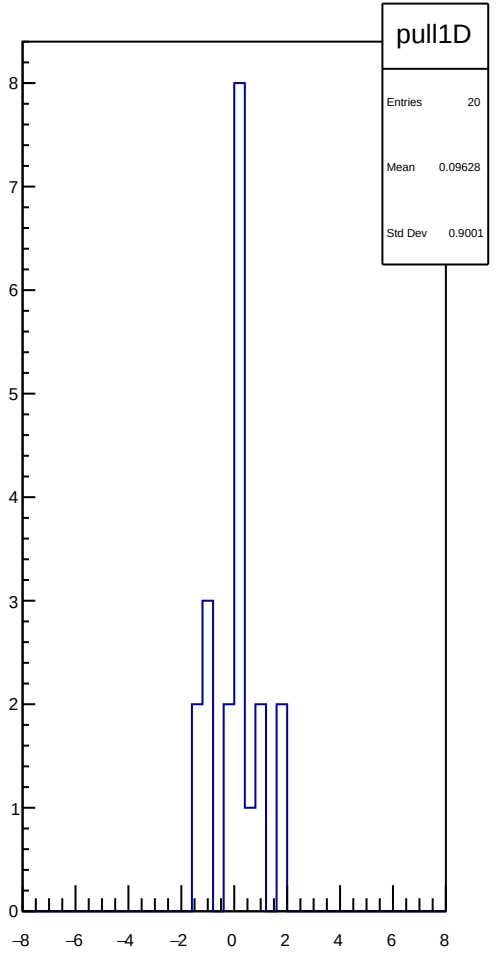

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.19 / 19
p0 −0.1445 ± 0.9182
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.743
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.05297
Std Dev 1.028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

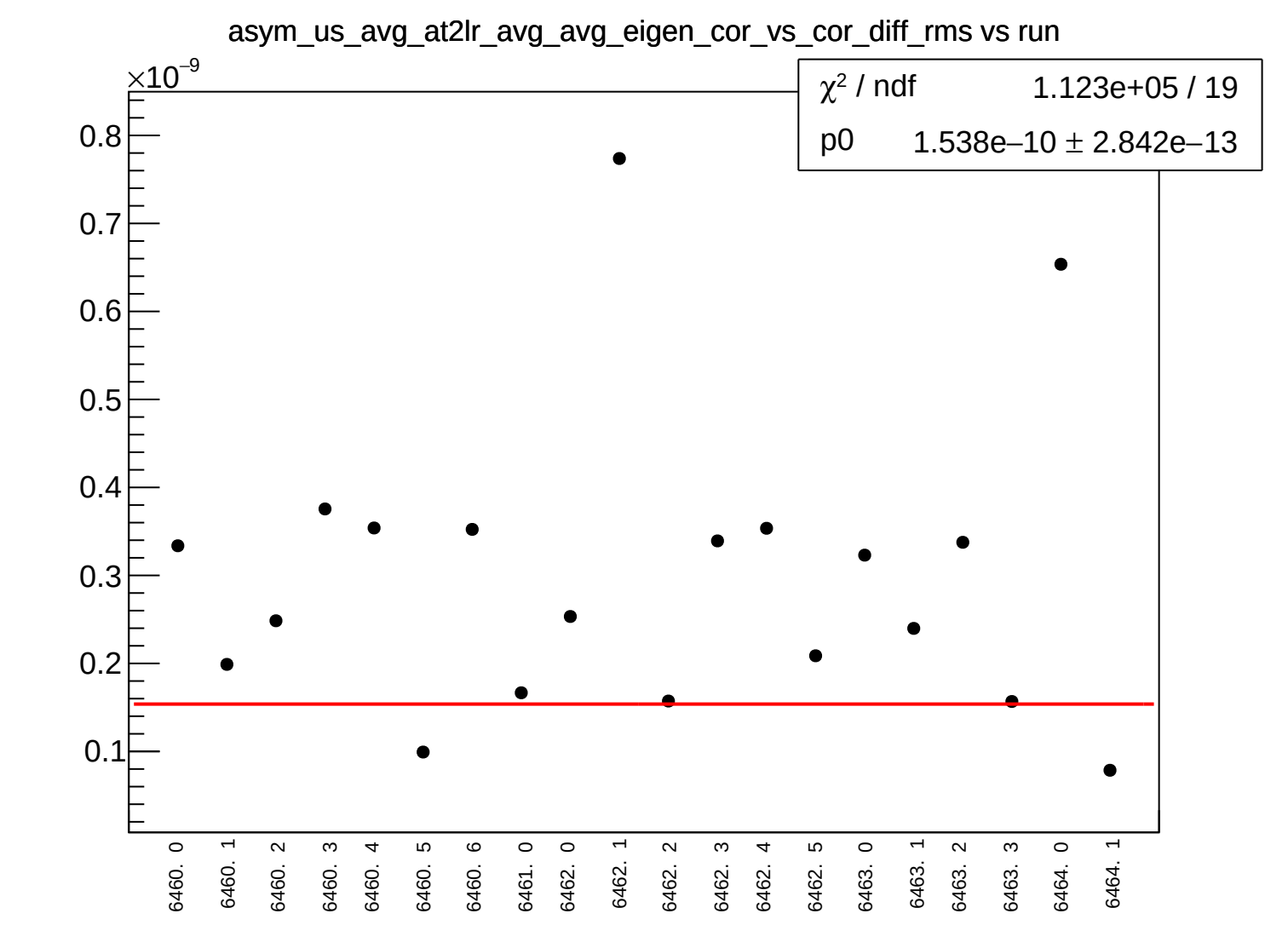

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3295 / 19
p0 411.6 ± 0.6493
480
460
440
420
400
380
360
340
320
300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

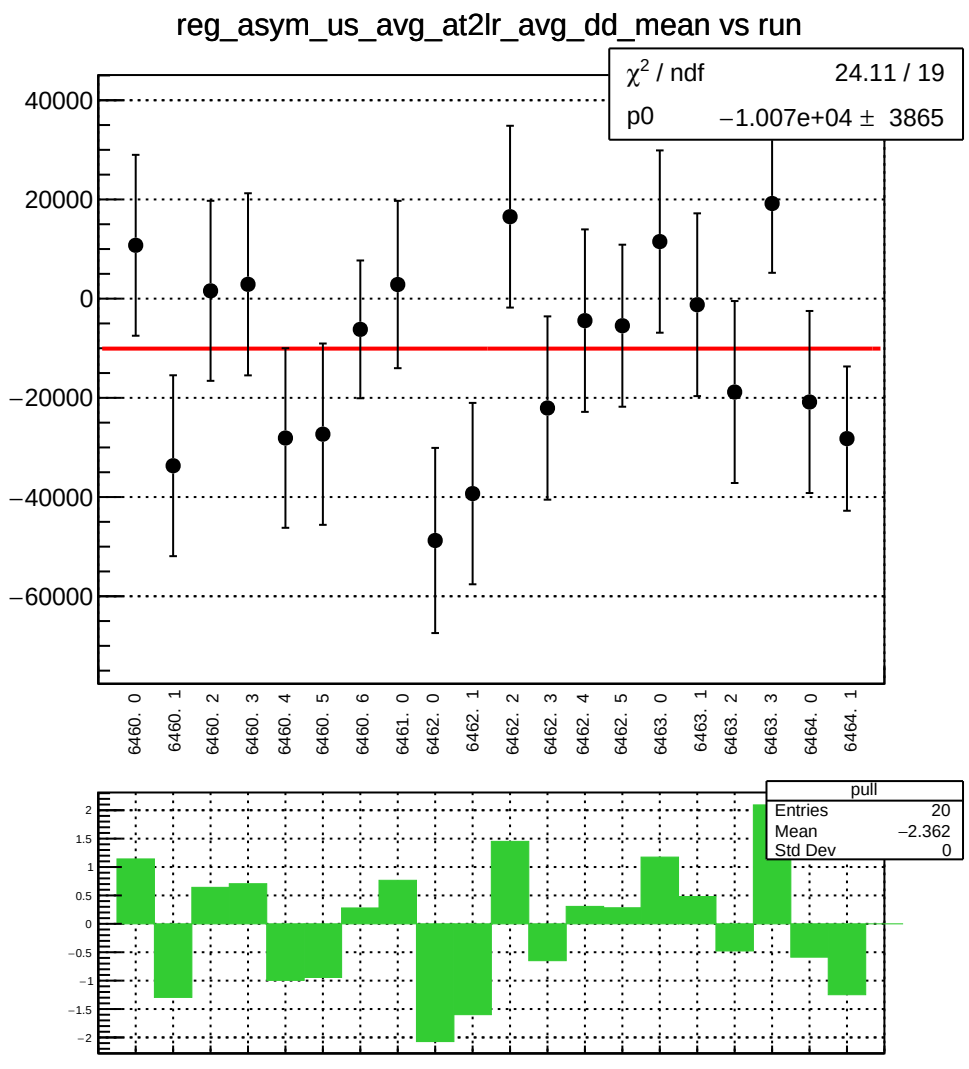

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.19 / 19
p0 −0.1445 ± 0.9182
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.743
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.05297
Std Dev 1.028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

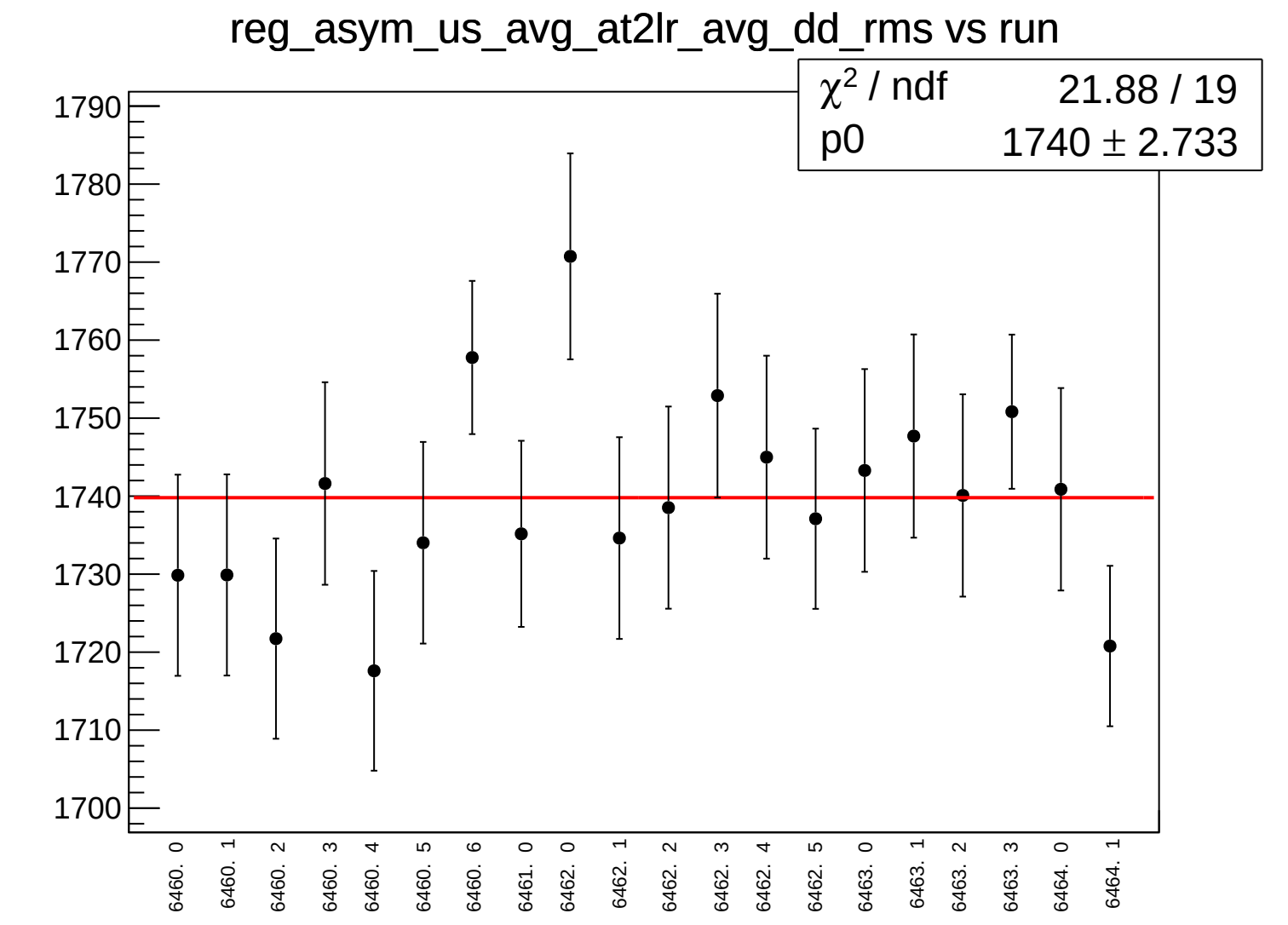

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3295 / 19
p0 411.6 ± 0.6493
480
460
440
420
400
380
360
340
320
300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

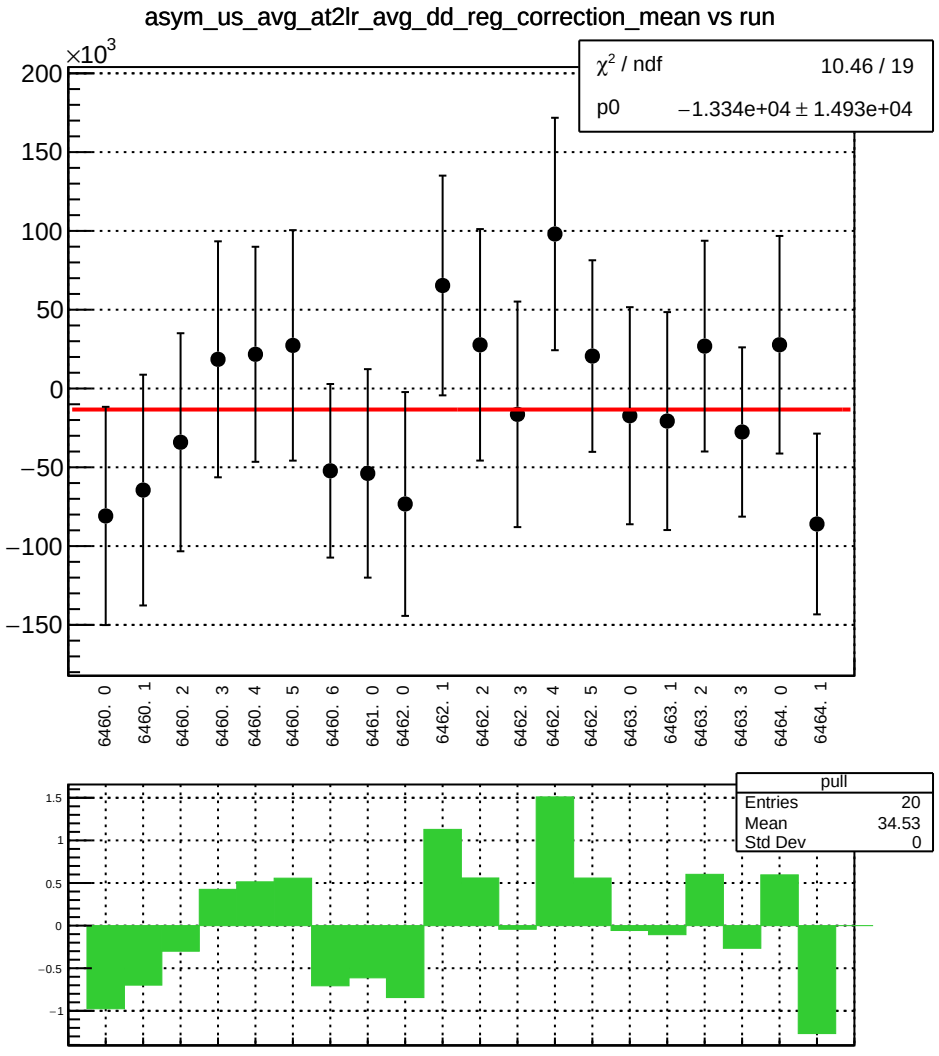

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.39 / 19
p0 −2.07e−13 ± 4.019e−13
15
10
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.014
Std Dev 9.82
2
1.5
1
0.5
0
−0.5
−1
−1.5

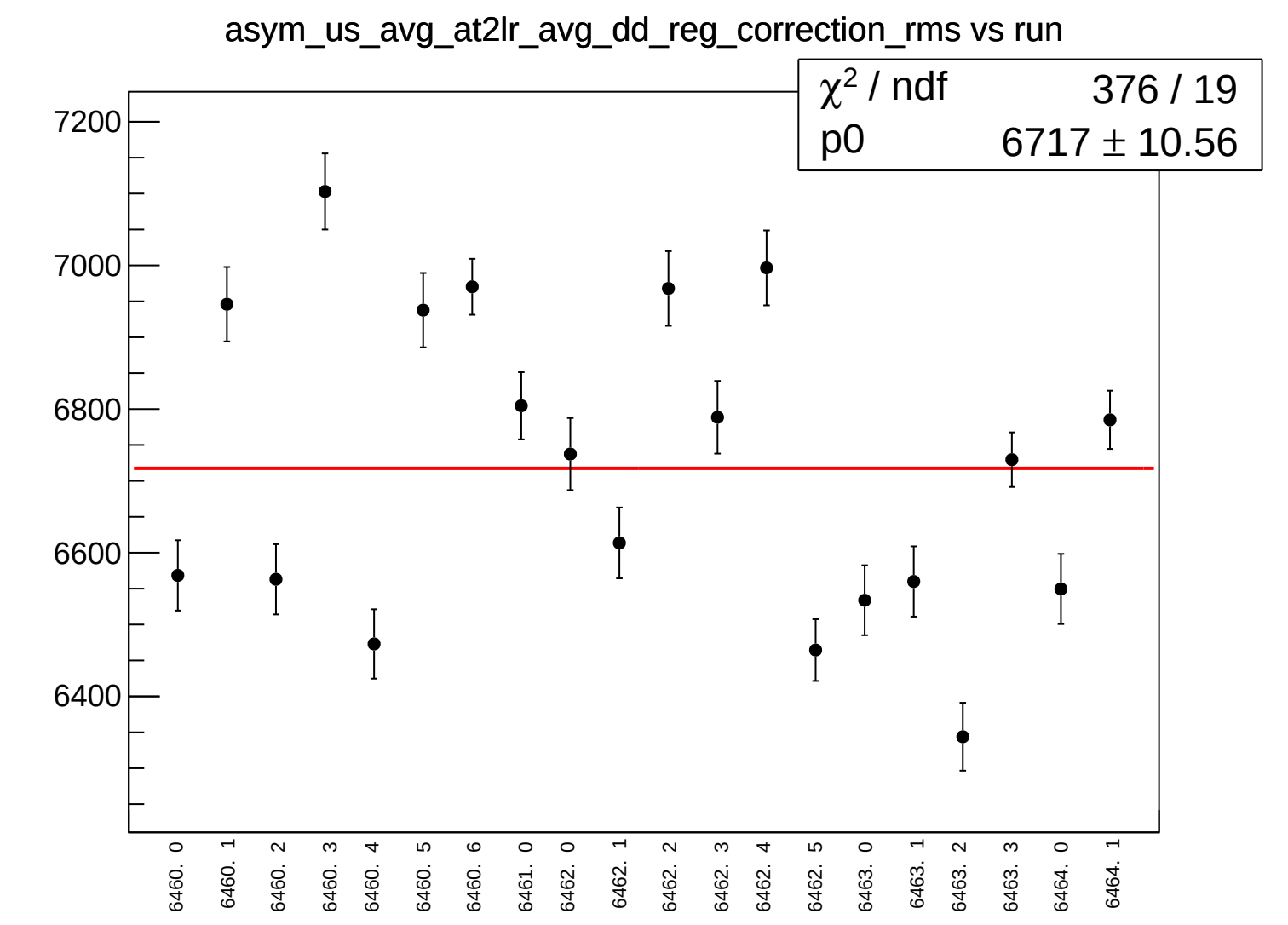

pull1D
Entries 20
Mean 0.09628
Std Dev 0.9001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

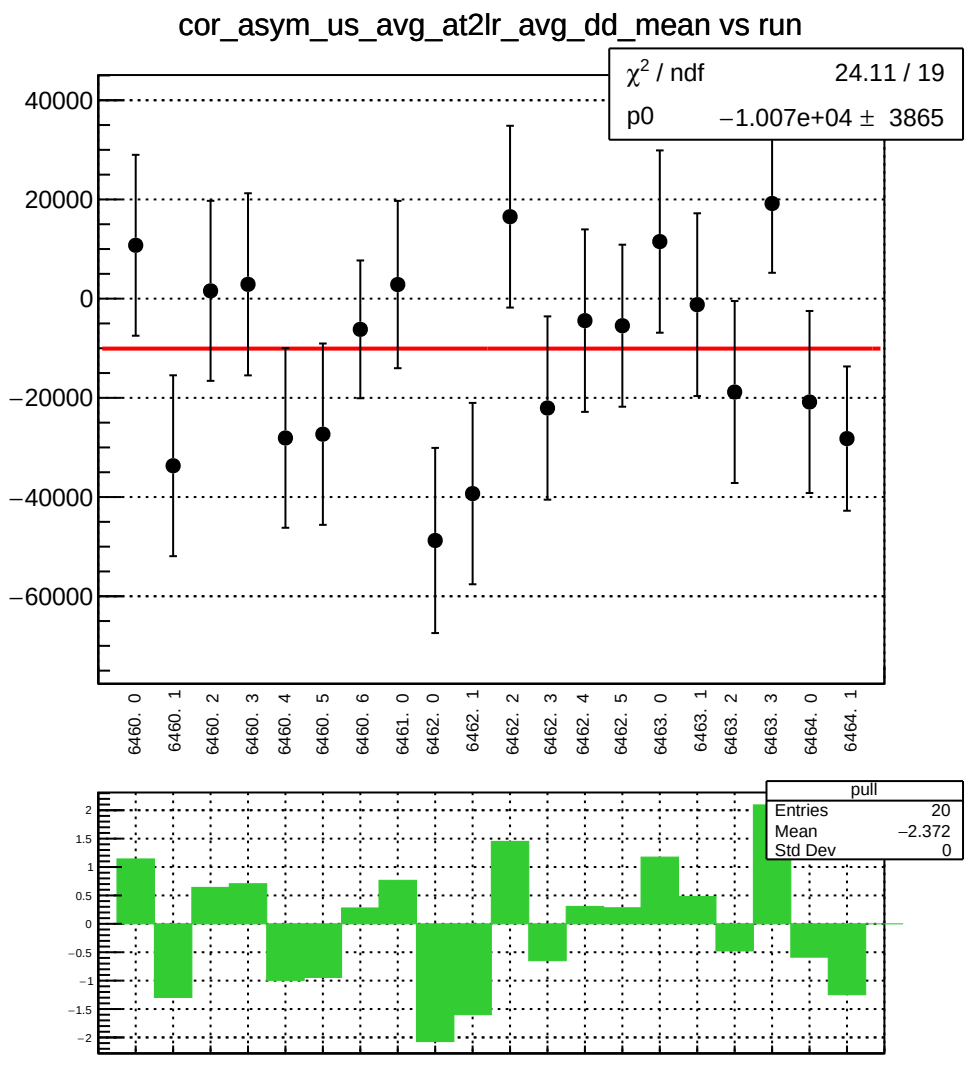

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.123e+05 / 19
p0 1.538e−10 ± 2.842e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

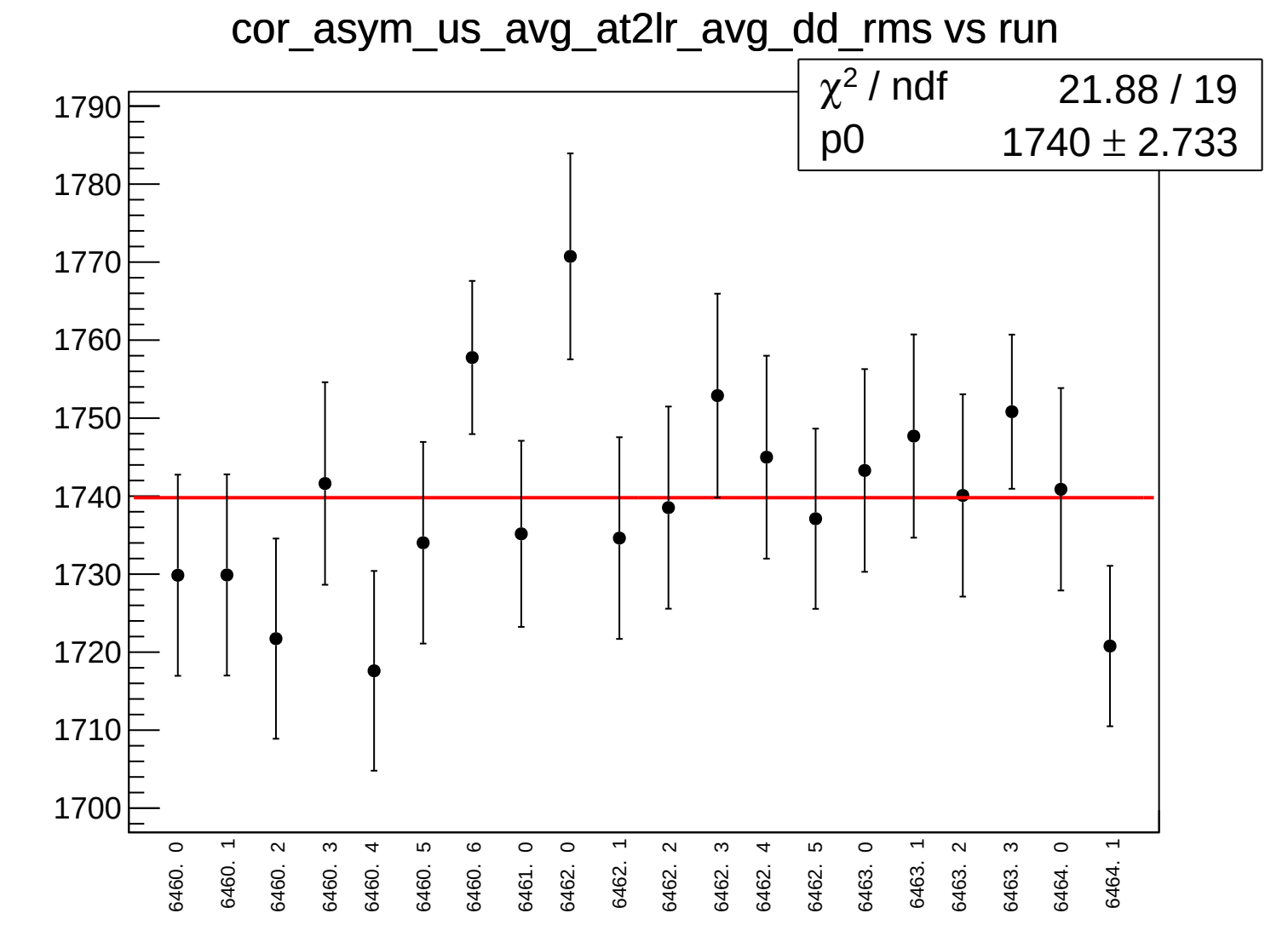

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 24.11 / 19
p0 −1.007e+04 ± 3865
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.362
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.02704
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

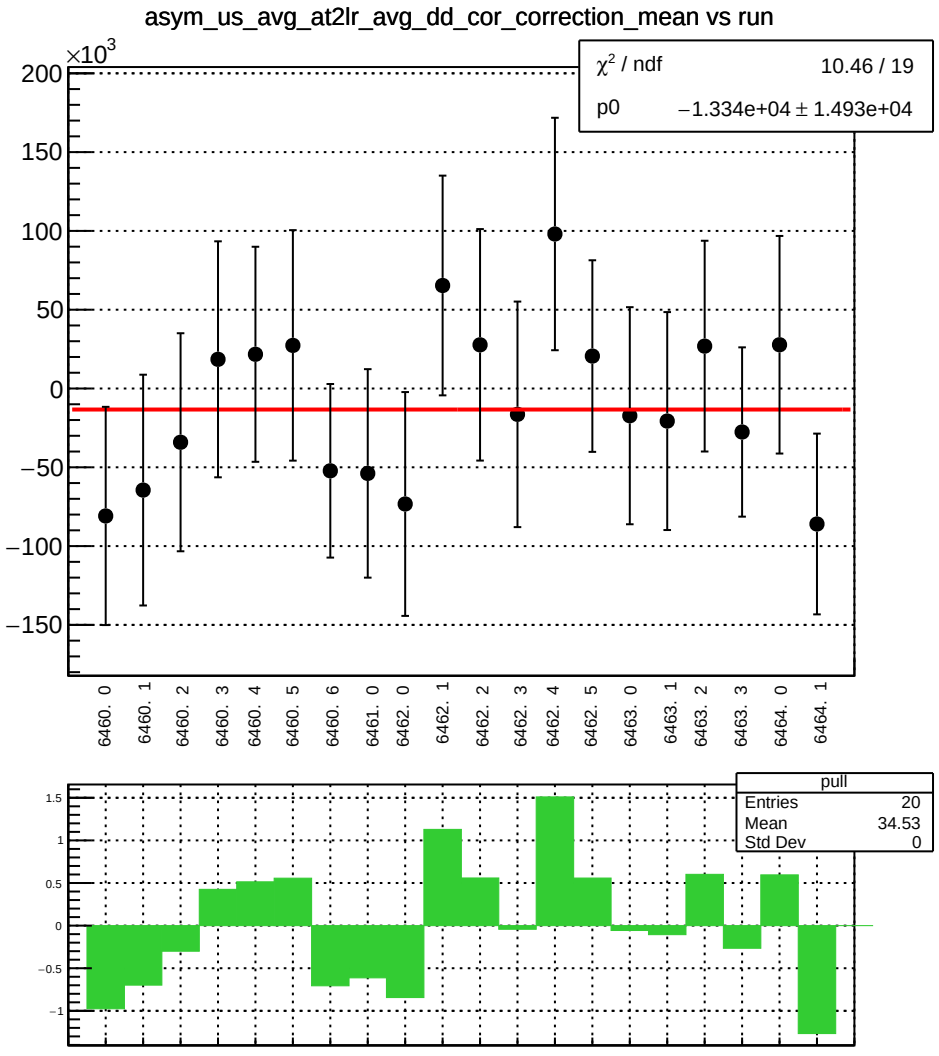

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 21.88 / 19
p0 1740 ± 2.733
1790
1780
1770
1760
1750
1740
1730
1720
1710
1700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

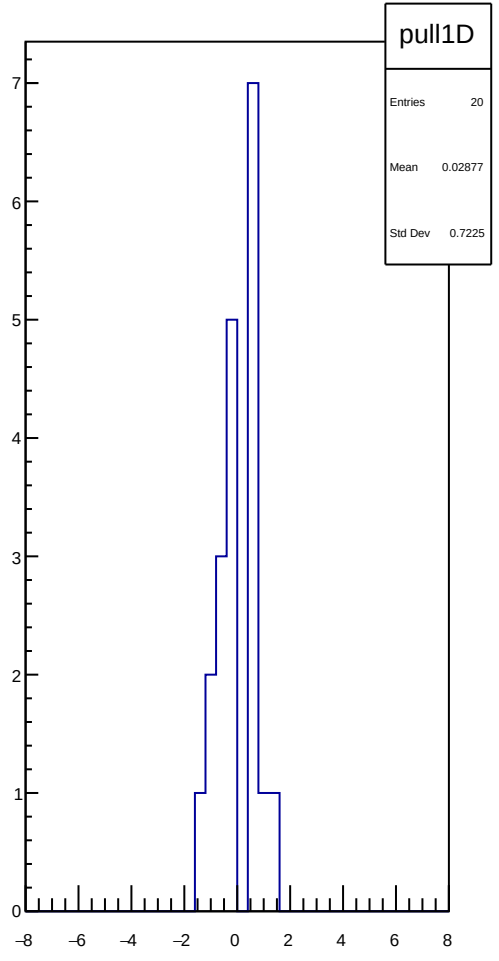

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 10.46 / 19
p0 −1.334e+04 ± 1.493e+04
200
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.53
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02877
Std Dev 0.7225
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

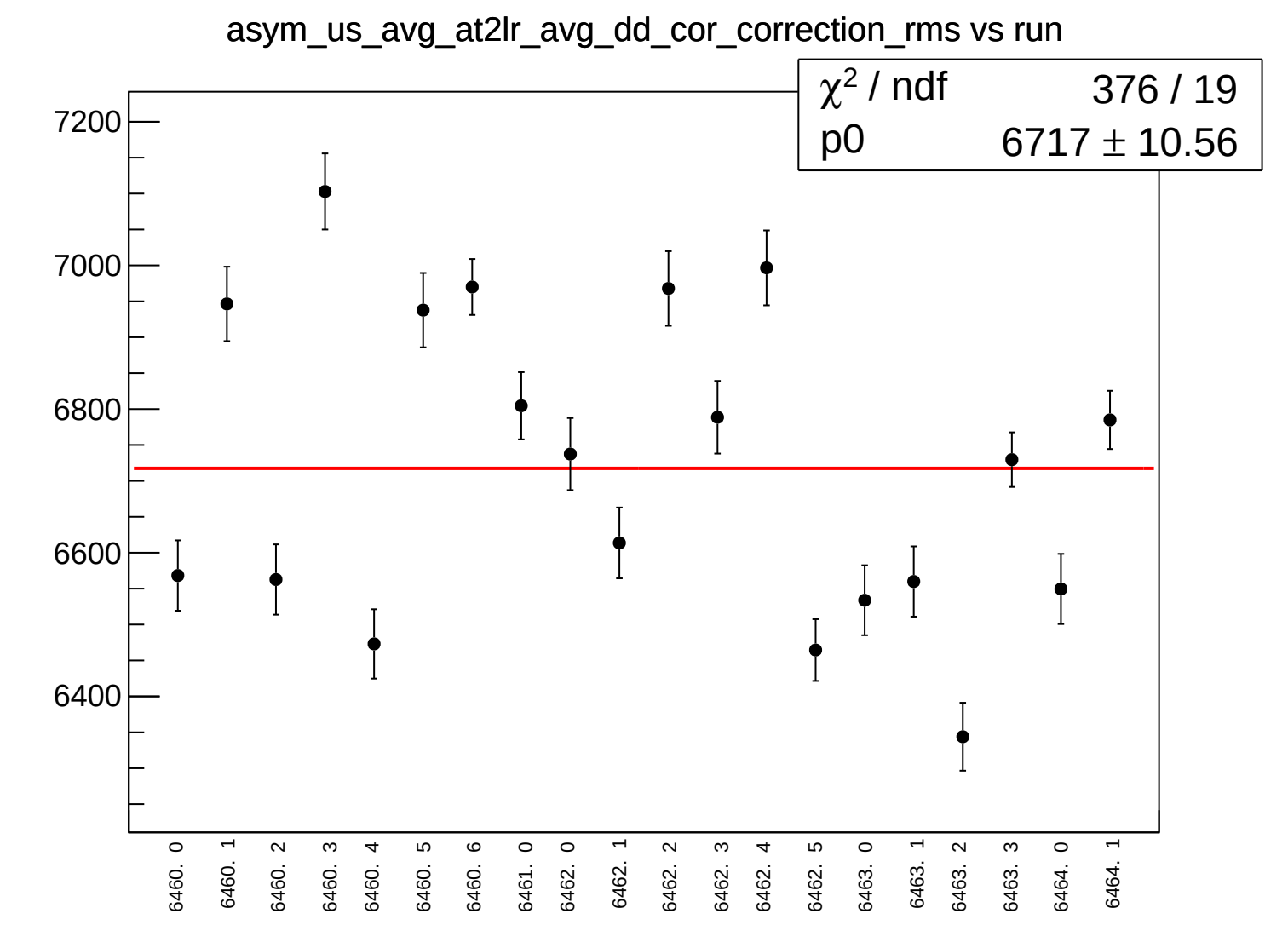

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 376 / 19
p0 6717 ± 10.56
7200
7000
6800
6600
6400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

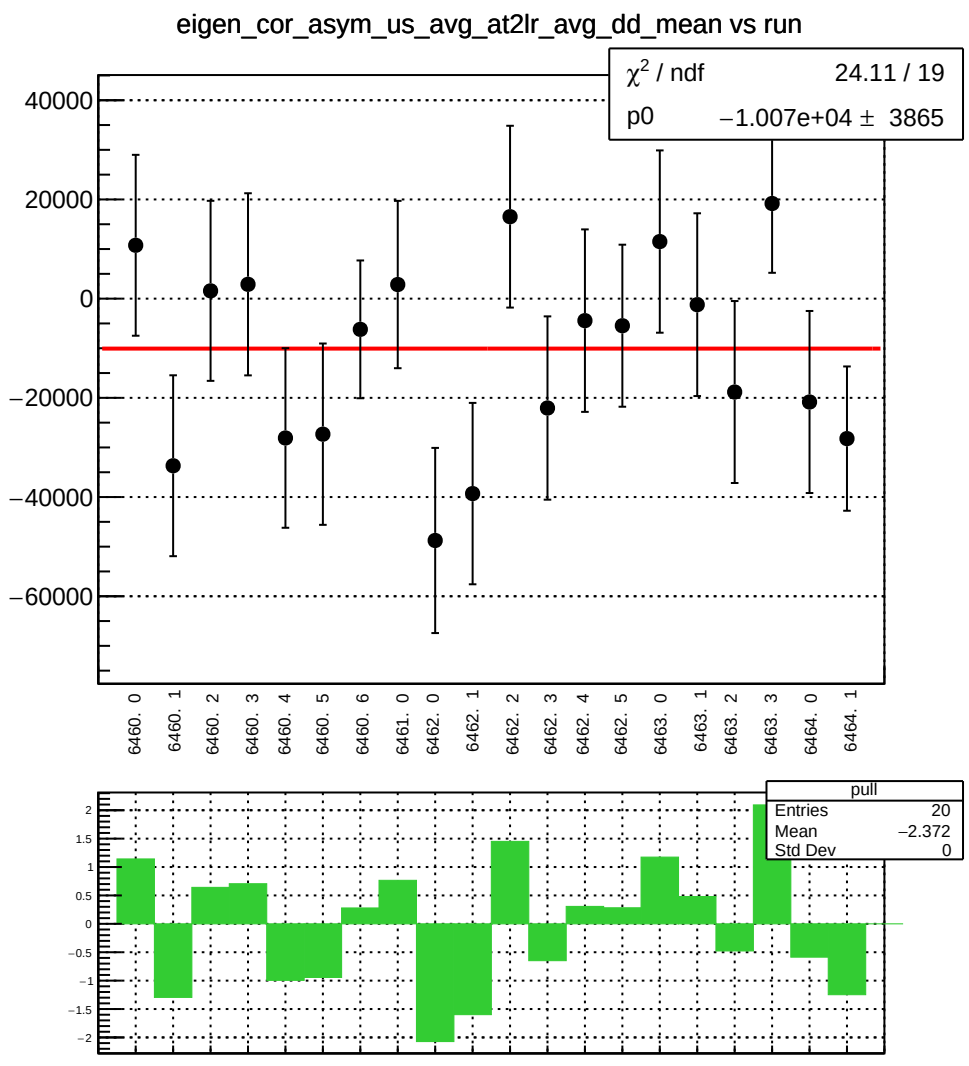

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 24.11 / 19
p0 −1.007e+04 ± 3865
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.372
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.02704
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

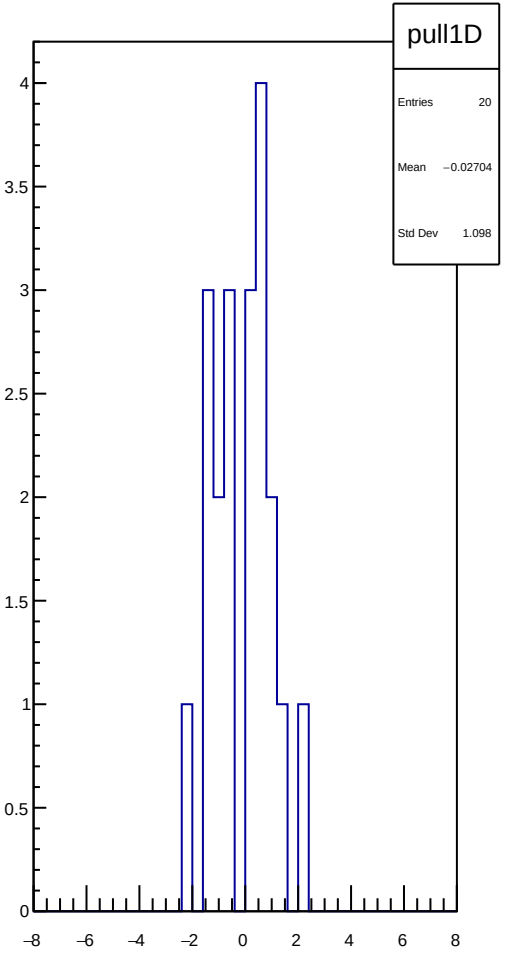

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 21.88 / 19
p0 1740 ± 2.733
1790
1780
1770
1760
1750
1740
1730
1720
1710
1700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

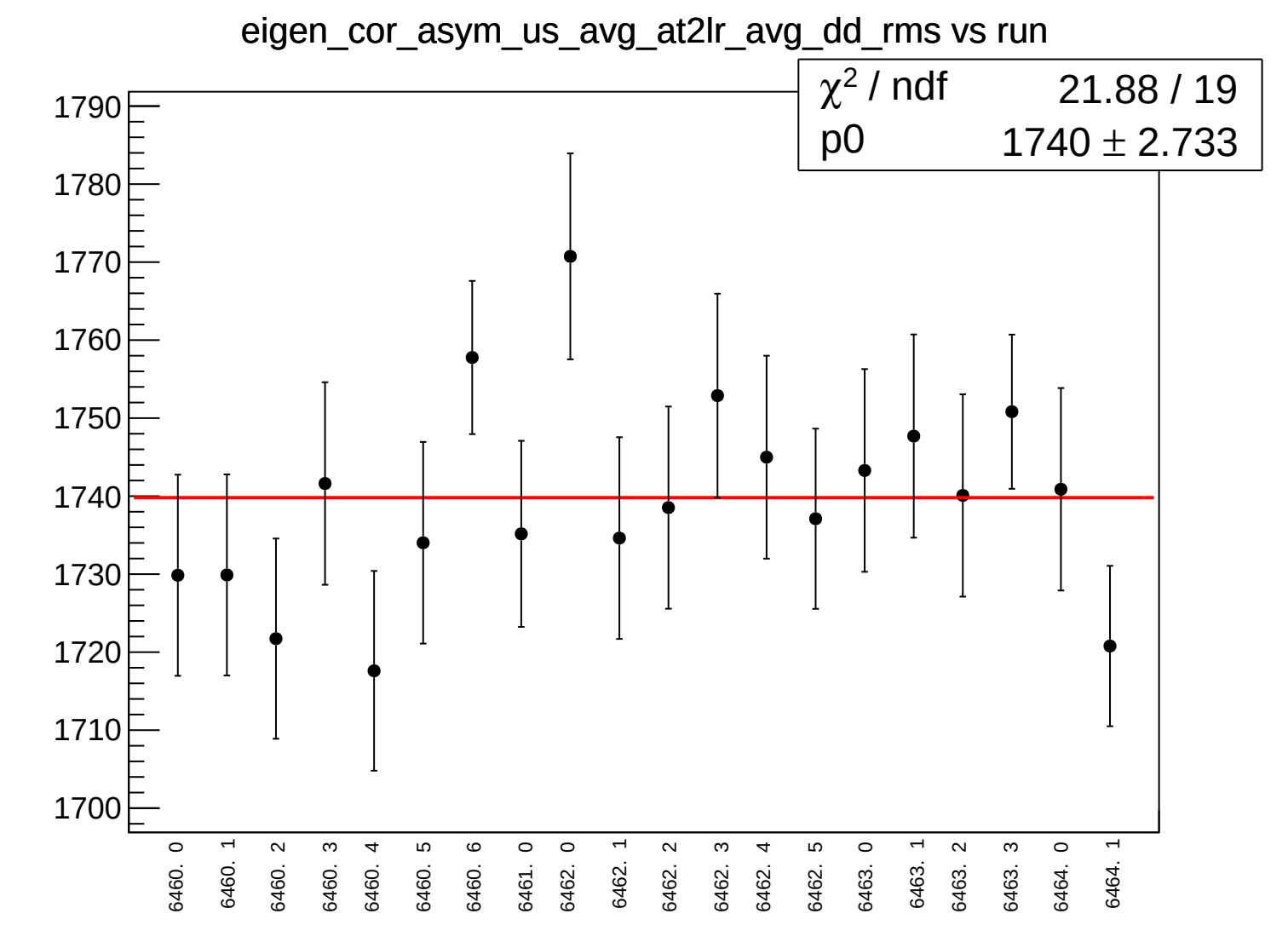

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 10.46 / 19
p0 −1.334e+04 ± 1.493e+04
200
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.53
Std Dev 0
1.5
1
0.5
0
−0.5
−1

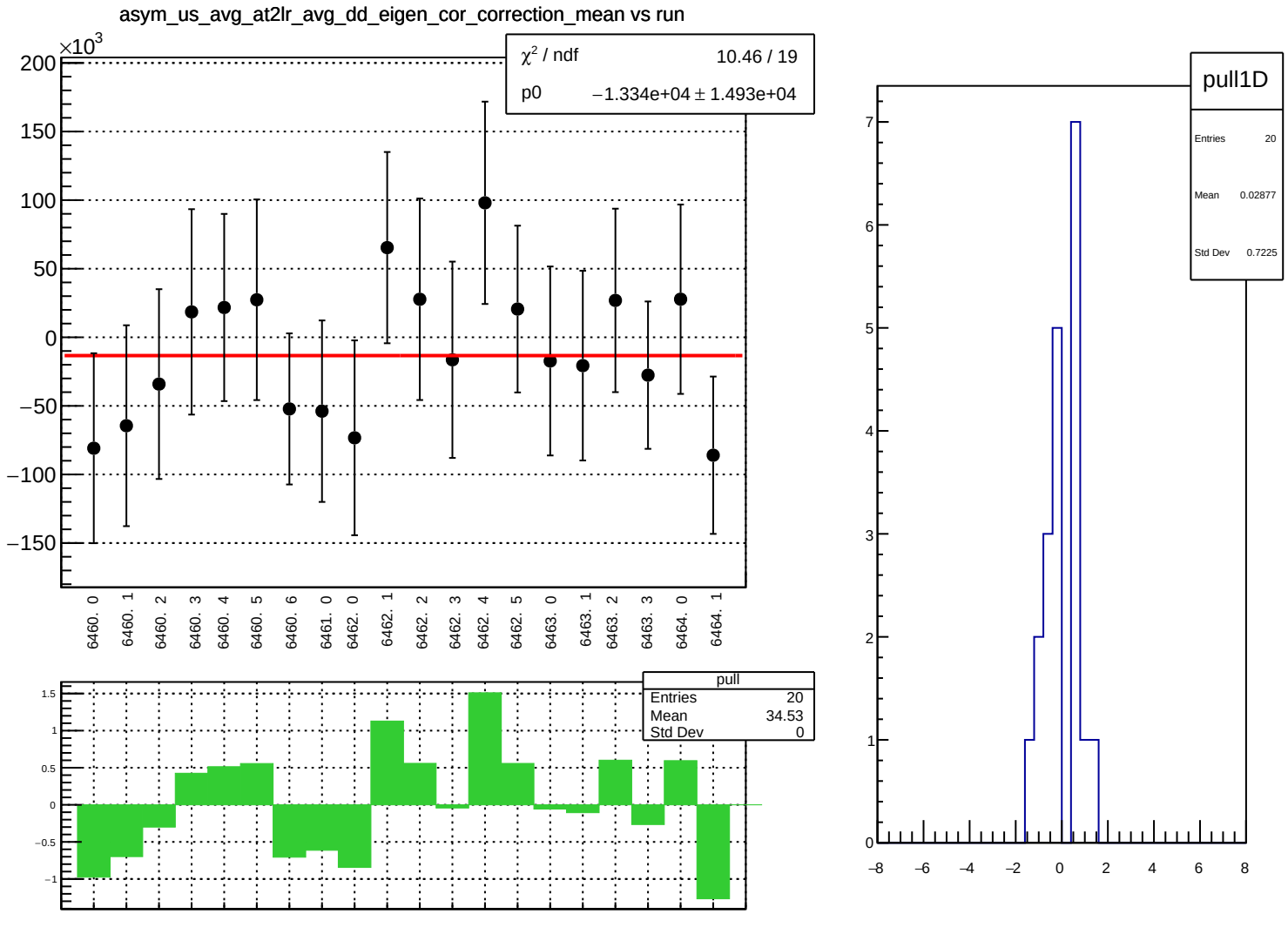

pull1D
Entries 20
Mean 0.02877
Std Dev 0.7225
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

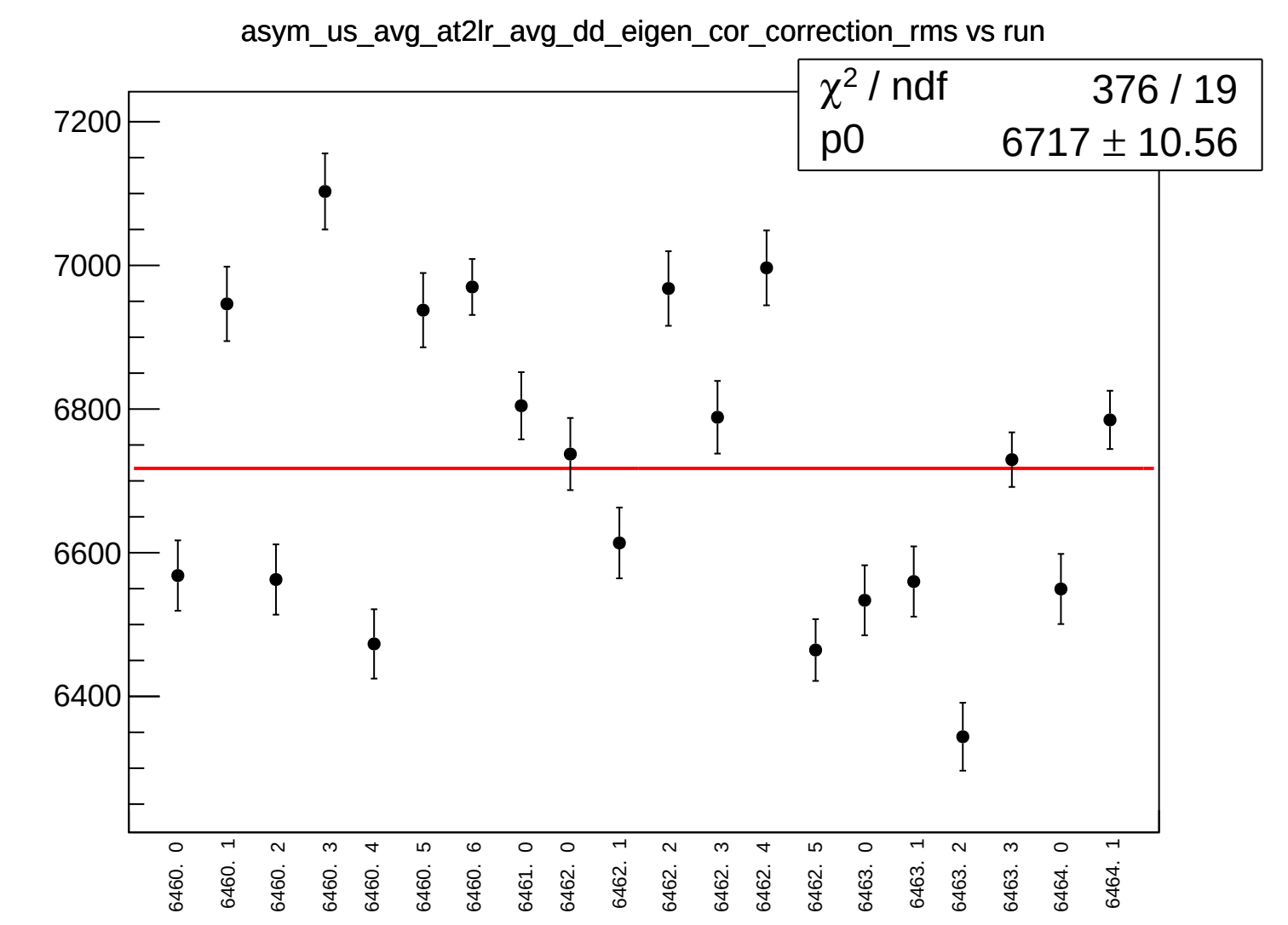

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 376 / 19
p0 6717 ± 10.56
7200
7000
6800
6600
6400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

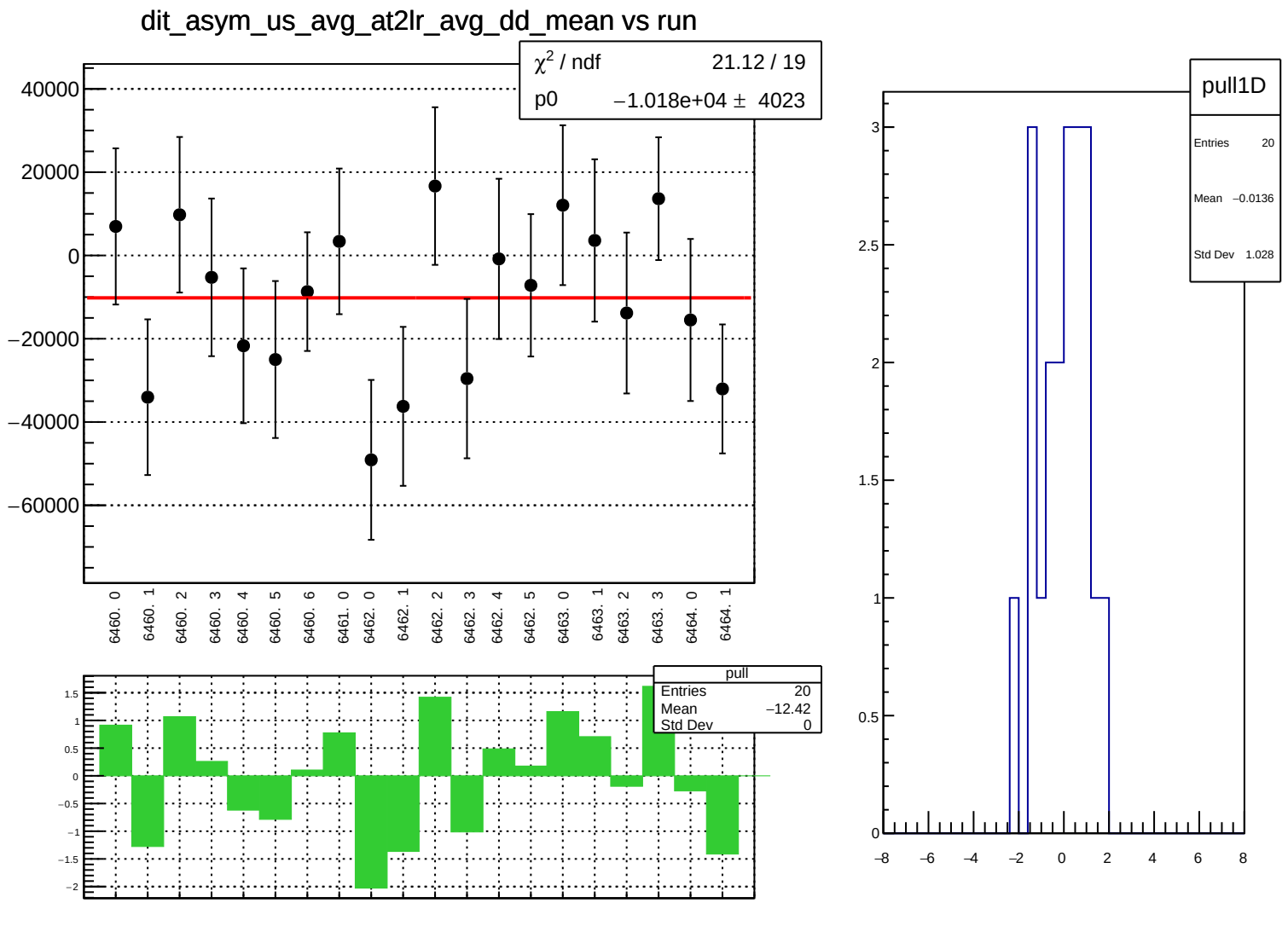

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 24.11 / 19
p0 −1.007e+04 ± 3865
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.372
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

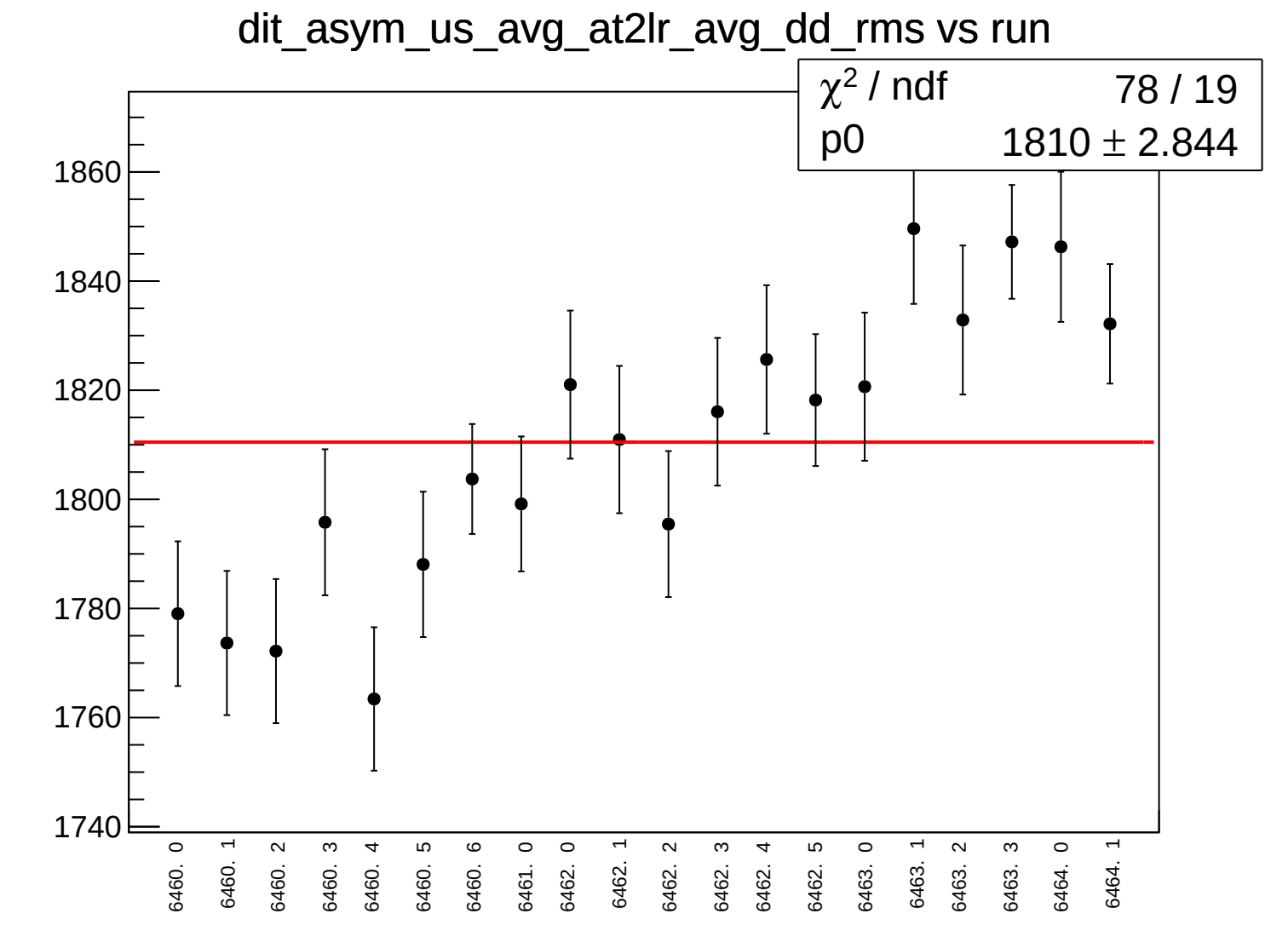

pull1D
Entries 20
Mean −0.02704
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

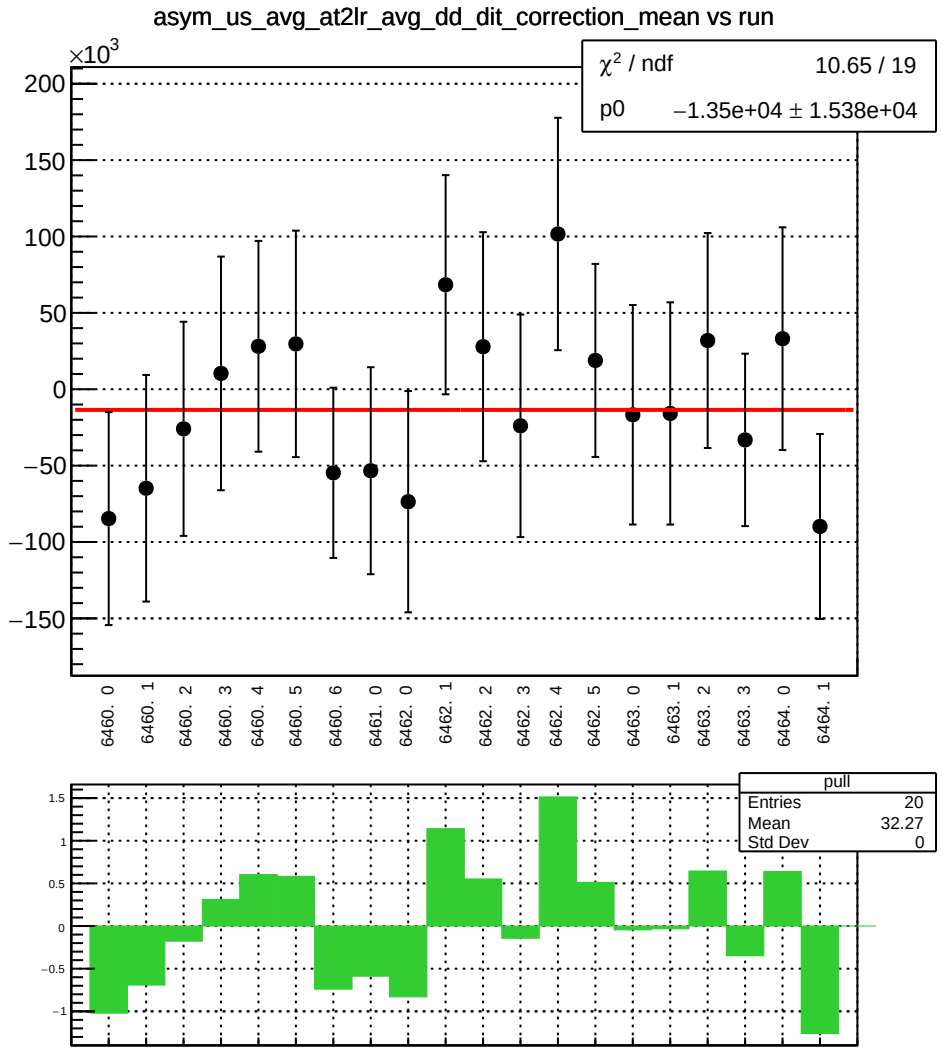

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 21.88 / 19
p0 1740 ± 2.733
1790
1780
1770
1760
1750
1740
1730
1720
1710
1700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

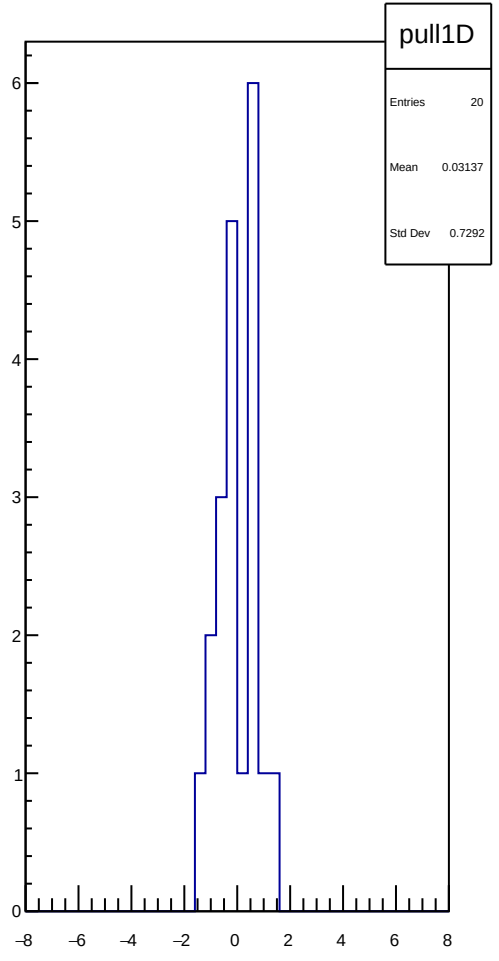

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 10.46 / 19
p0 −1.334e+04 ± 1.493e+04
200
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.53
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02877
Std Dev 0.7225
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

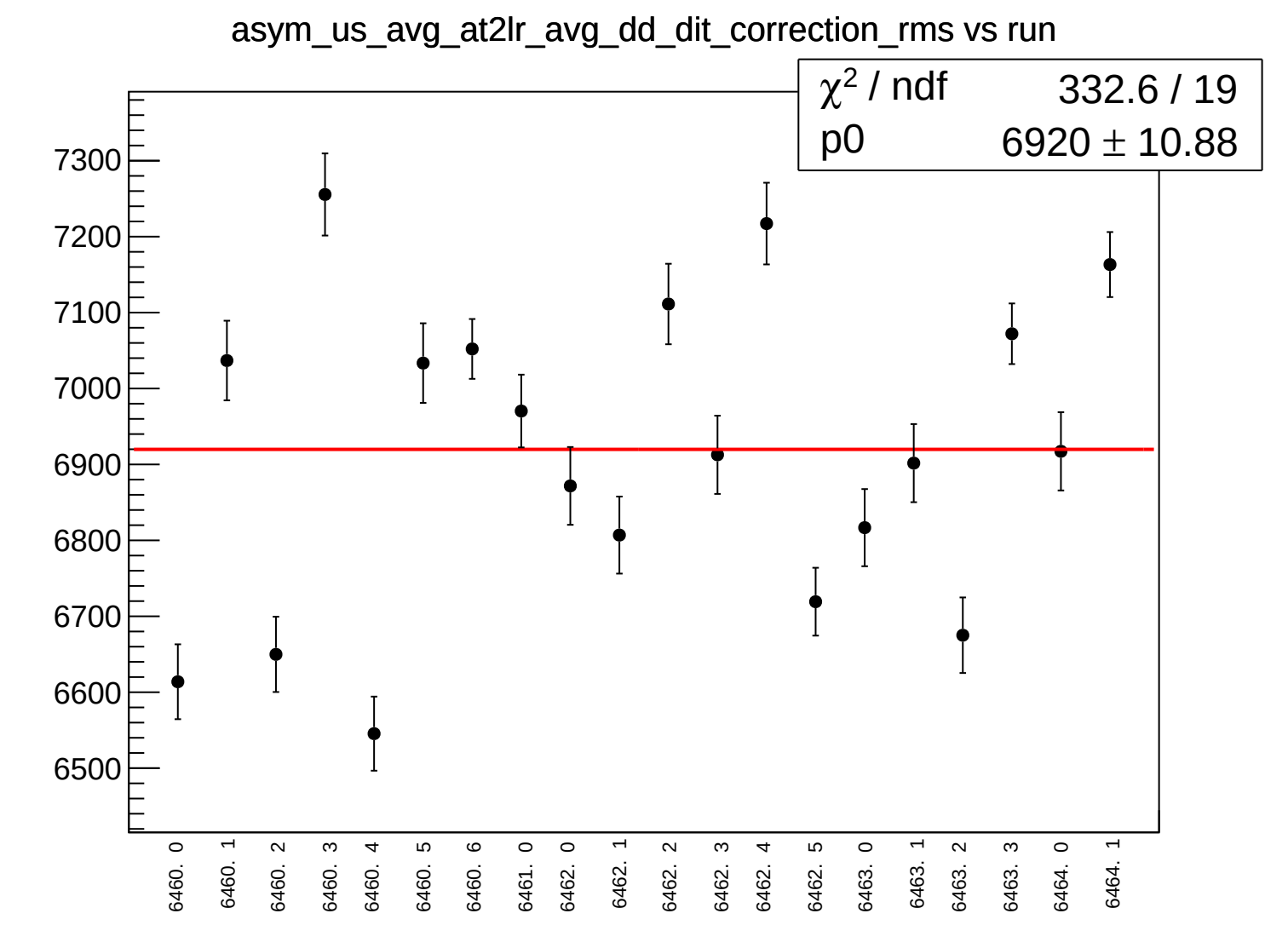

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 376 / 19
p0 6717 ± 10.56
7200
7000
6800
6600
6400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

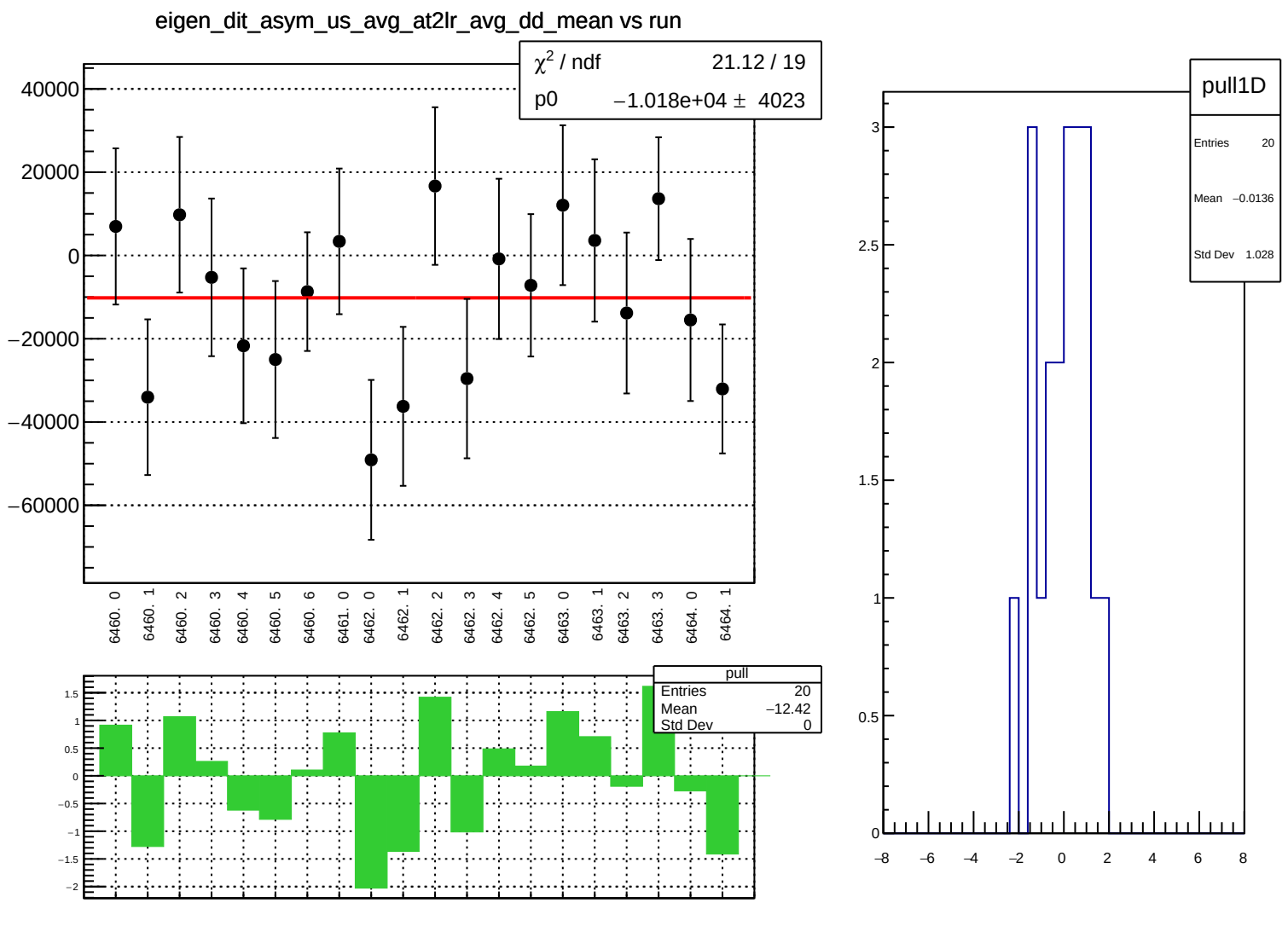

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 21.12 / 19
p0 −1.018e+04 ± 4023
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −12.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.0136
Std Dev 1.028
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

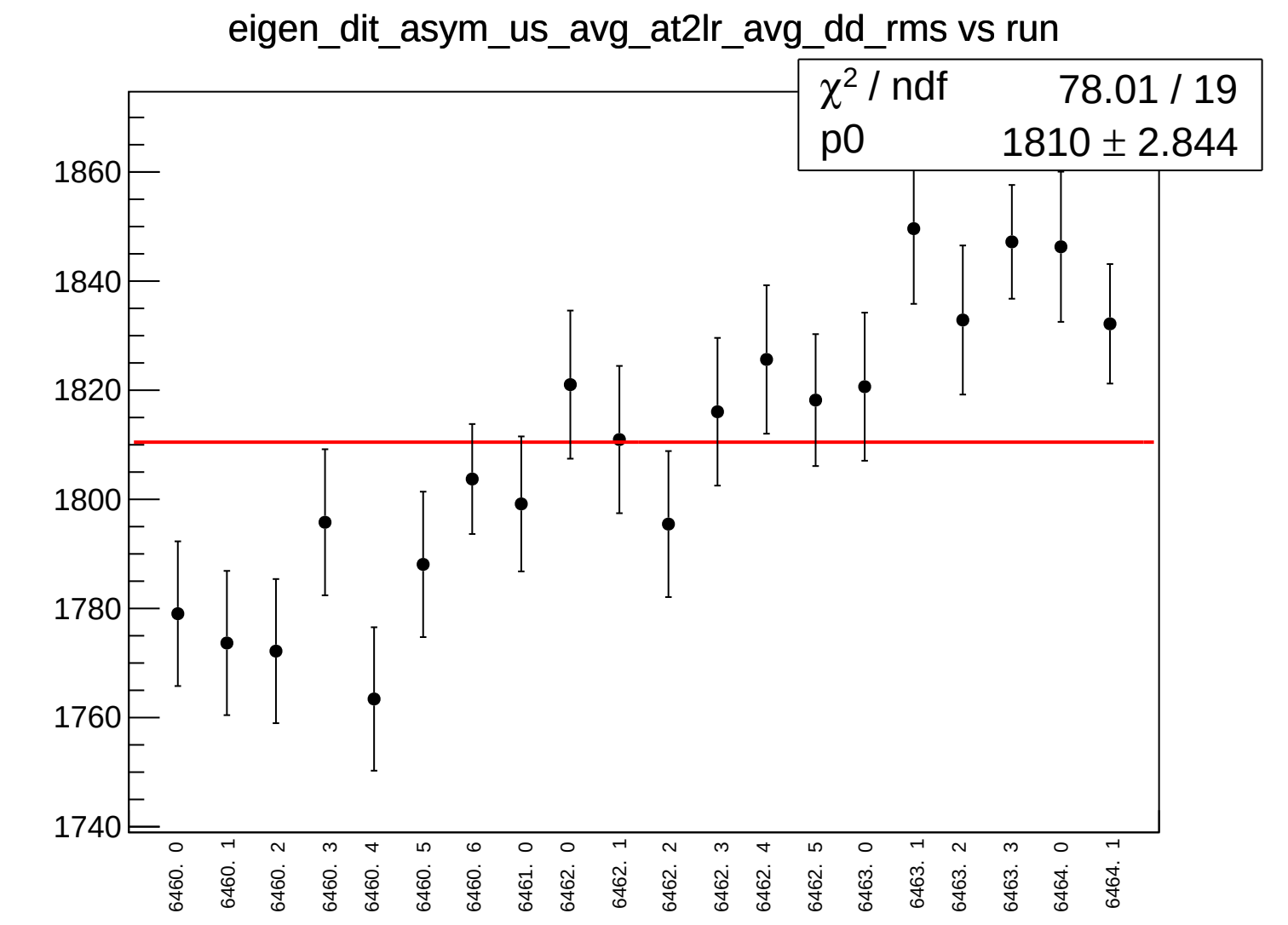

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 78 / 19
p0 1810 ± 2.844
1860
1840
1820
1800
1780
1760
1740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

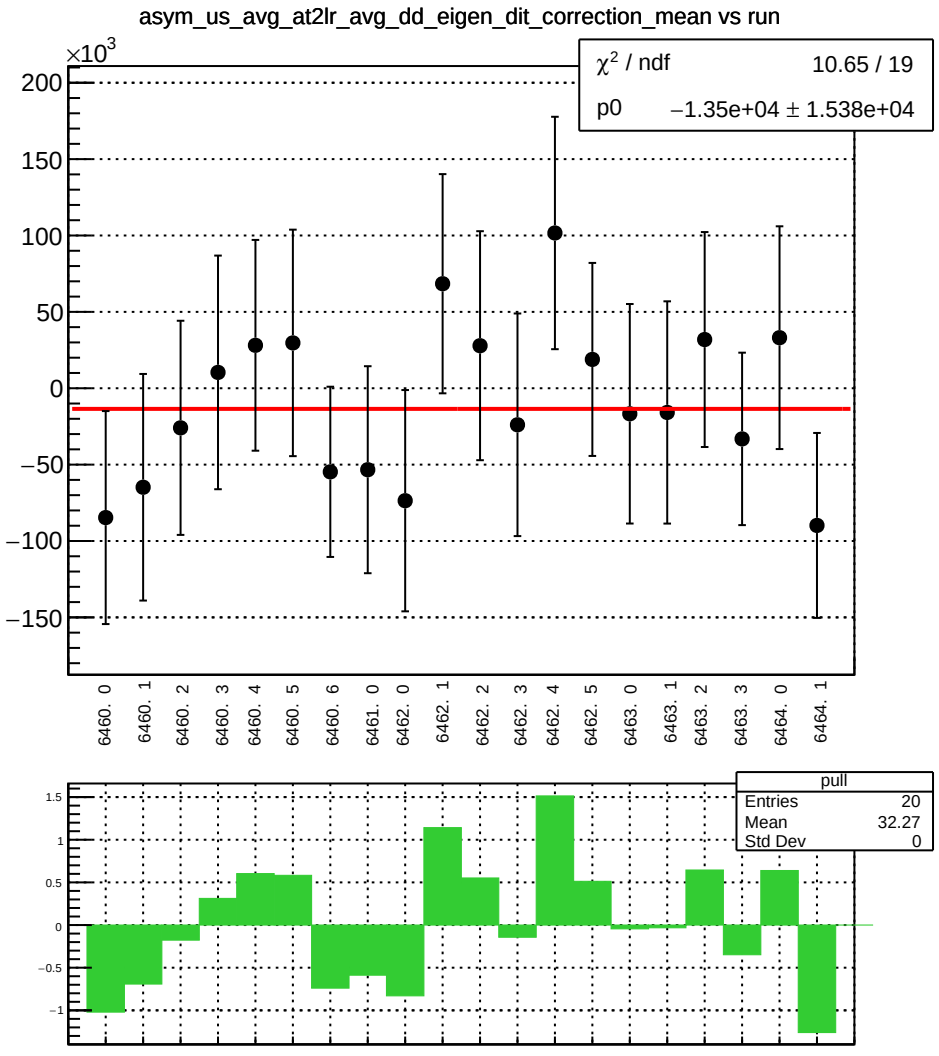

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 10.65 / 19
p0 −1.35e+04 ± 1.538e+04
200
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1

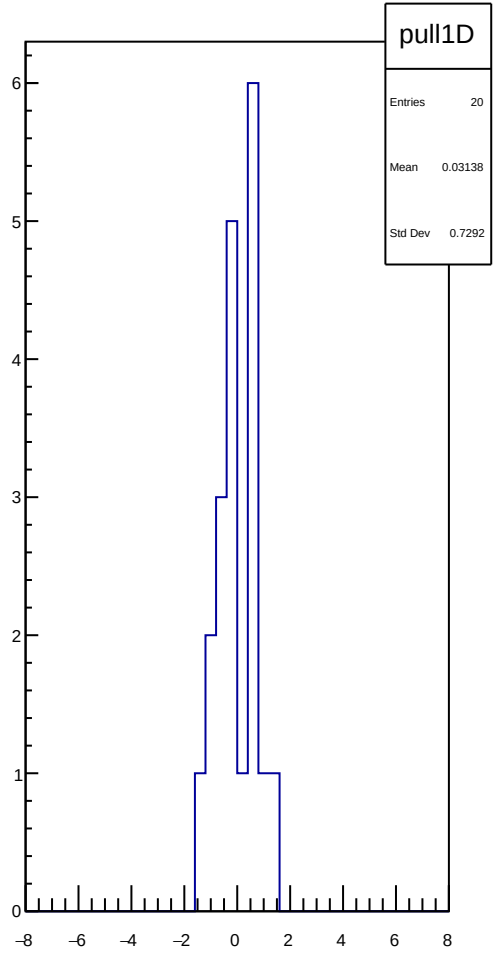

pull1D
Entries 20
Mean 0.03137
Std Dev 0.7292
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

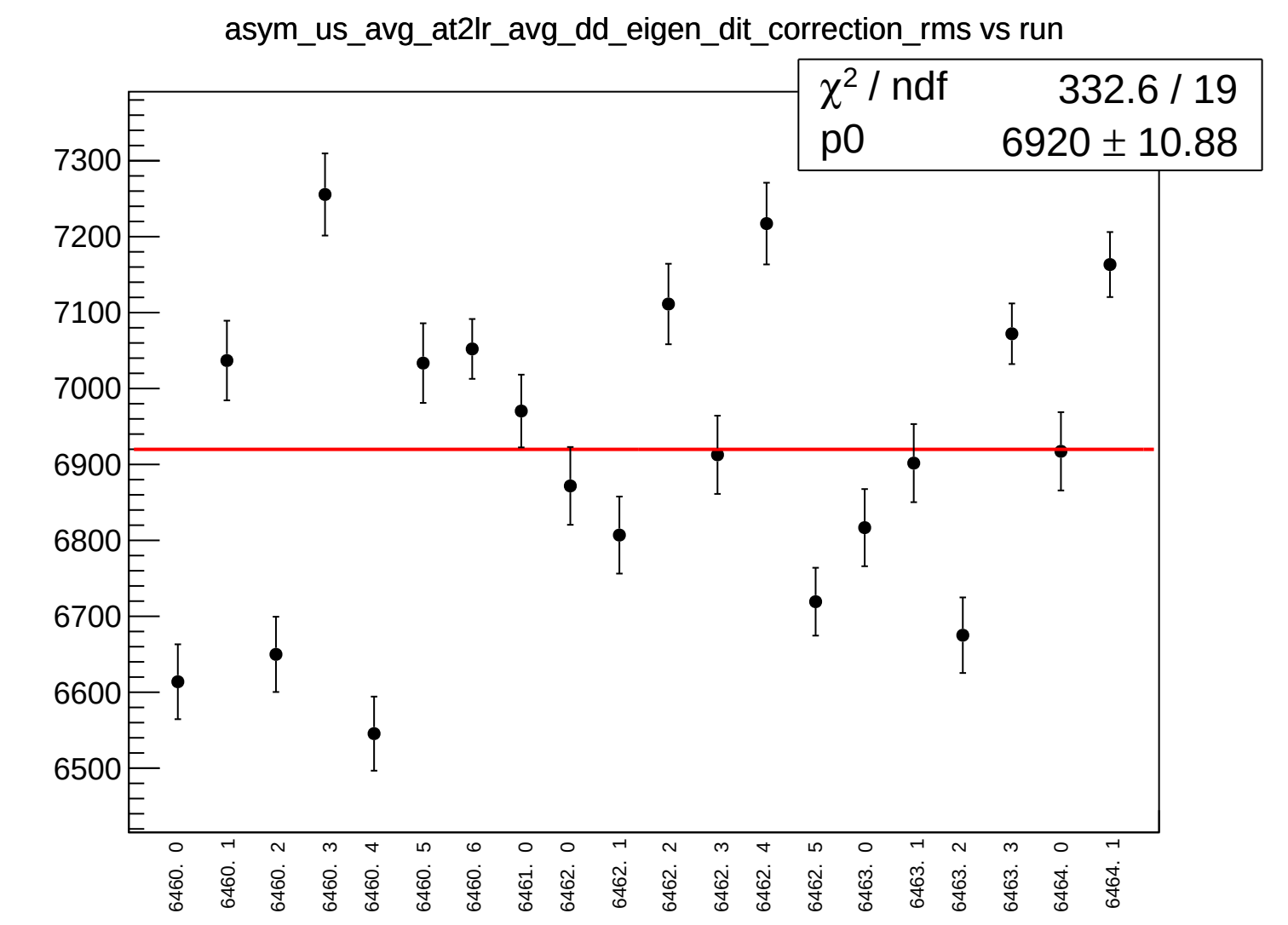

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 332.6 / 19
p0 6920 ± 10.88
7300
7200
7100
7000
6900
6800
6700
6600
6500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

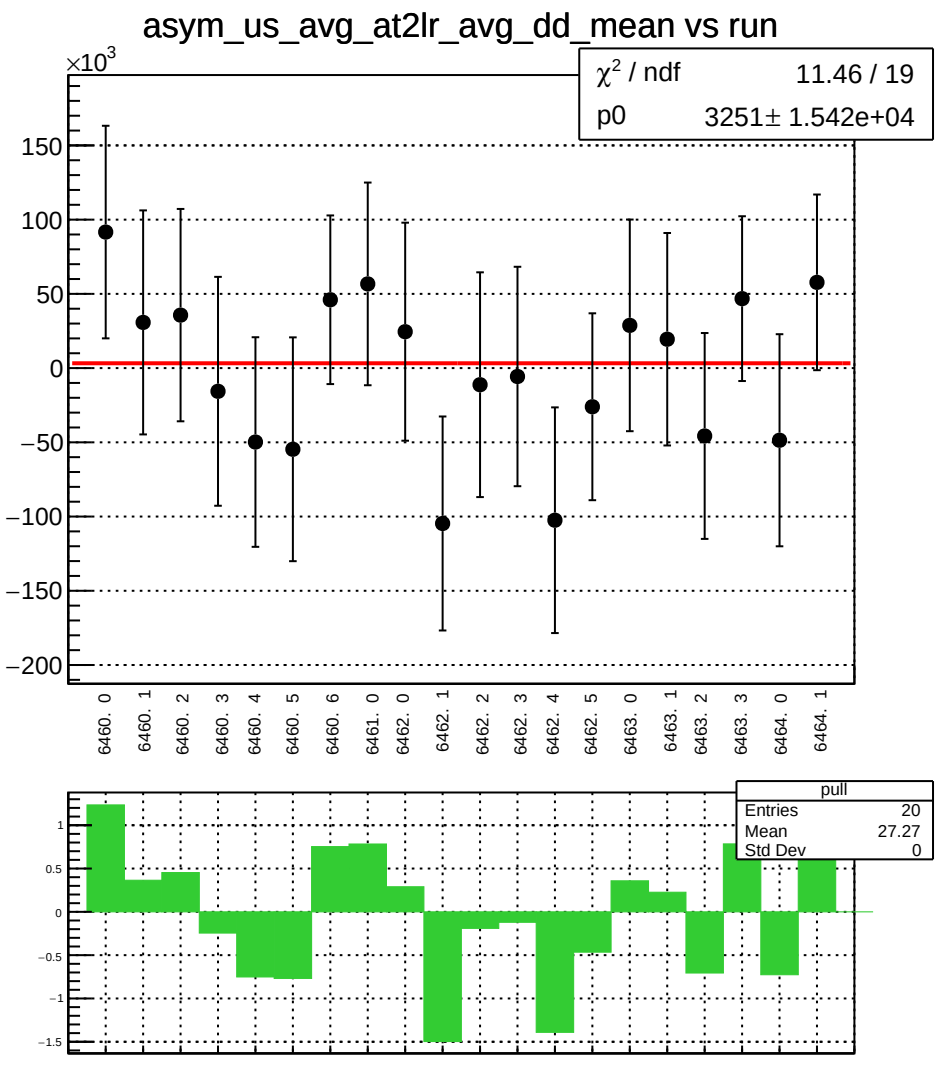

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 21.12 / 19
p0 −1.018e+04 ± 4023
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −12.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.0136
Std Dev 1.028
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

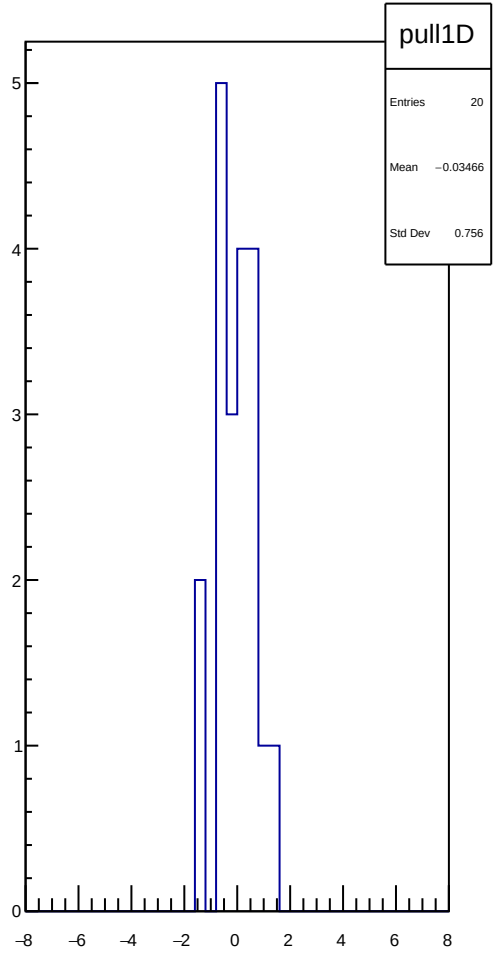

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 78.01 / 19
p0 1810 ± 2.844
1860
1840
1820
1800
1780
1760
1740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

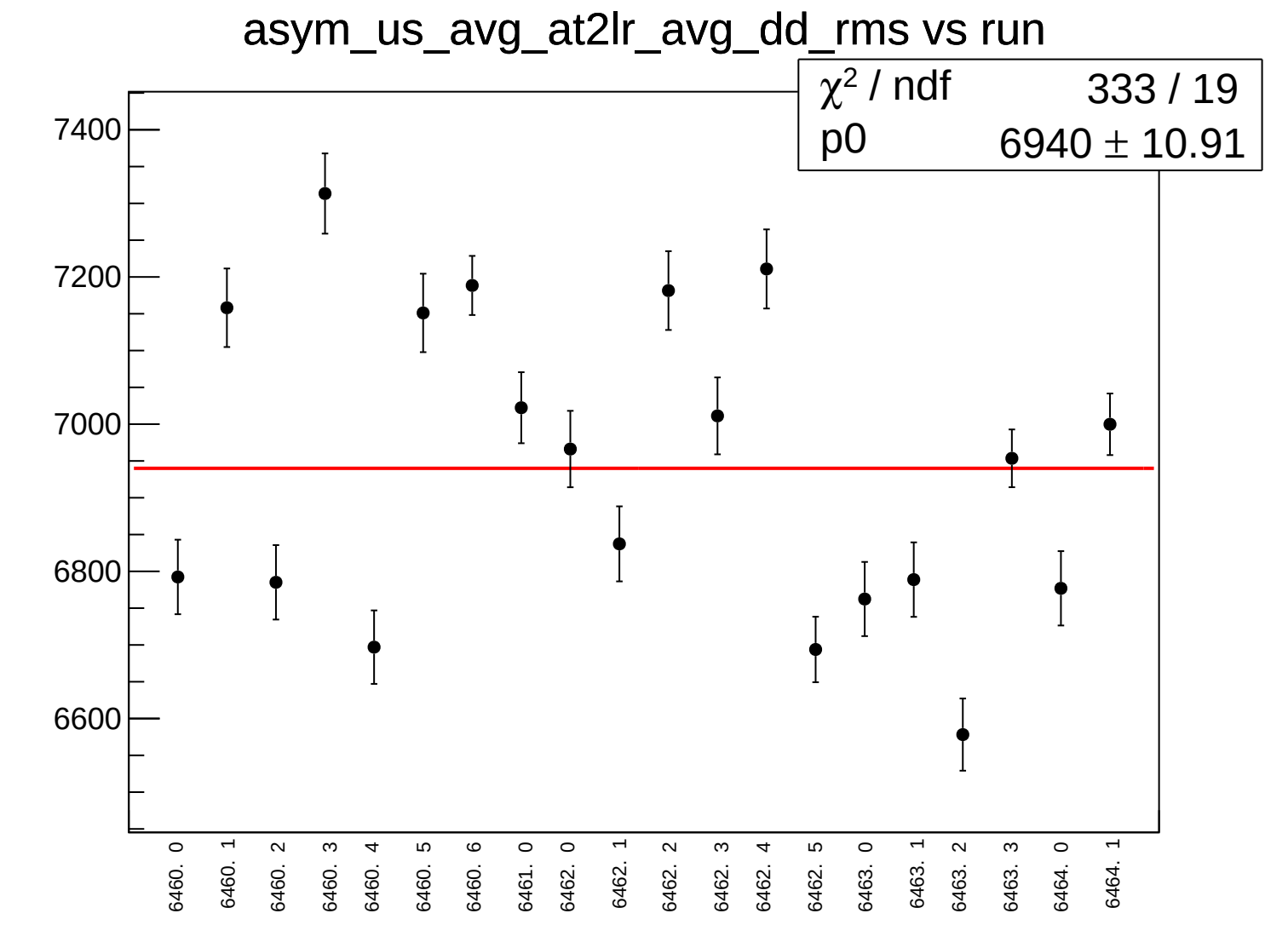

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 10.65 / 19
p0 −1.35e+04 ± 1.538e+04
200
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1

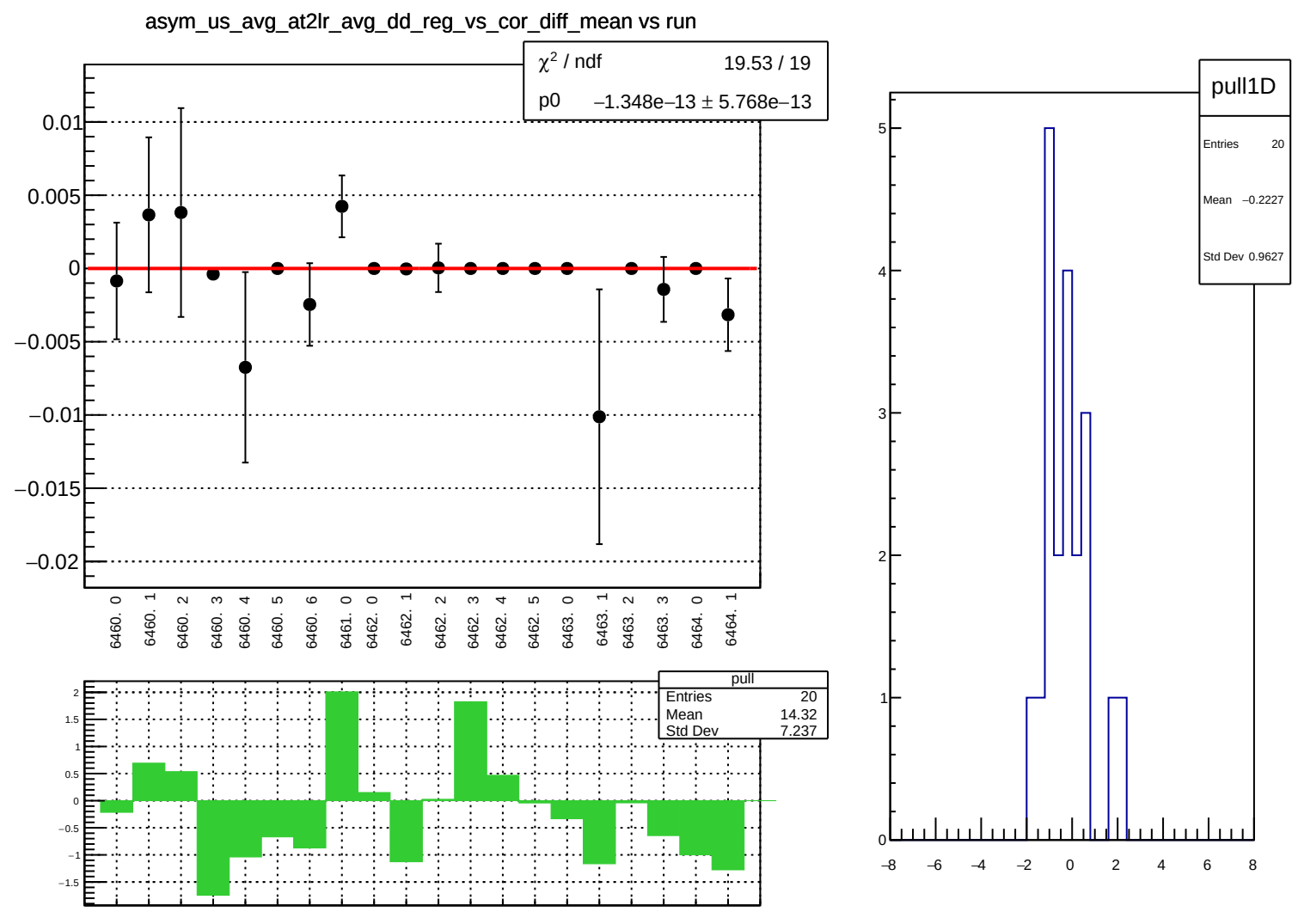

pull1D
Entries 20
Mean 0.03138
Std Dev 0.7292
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

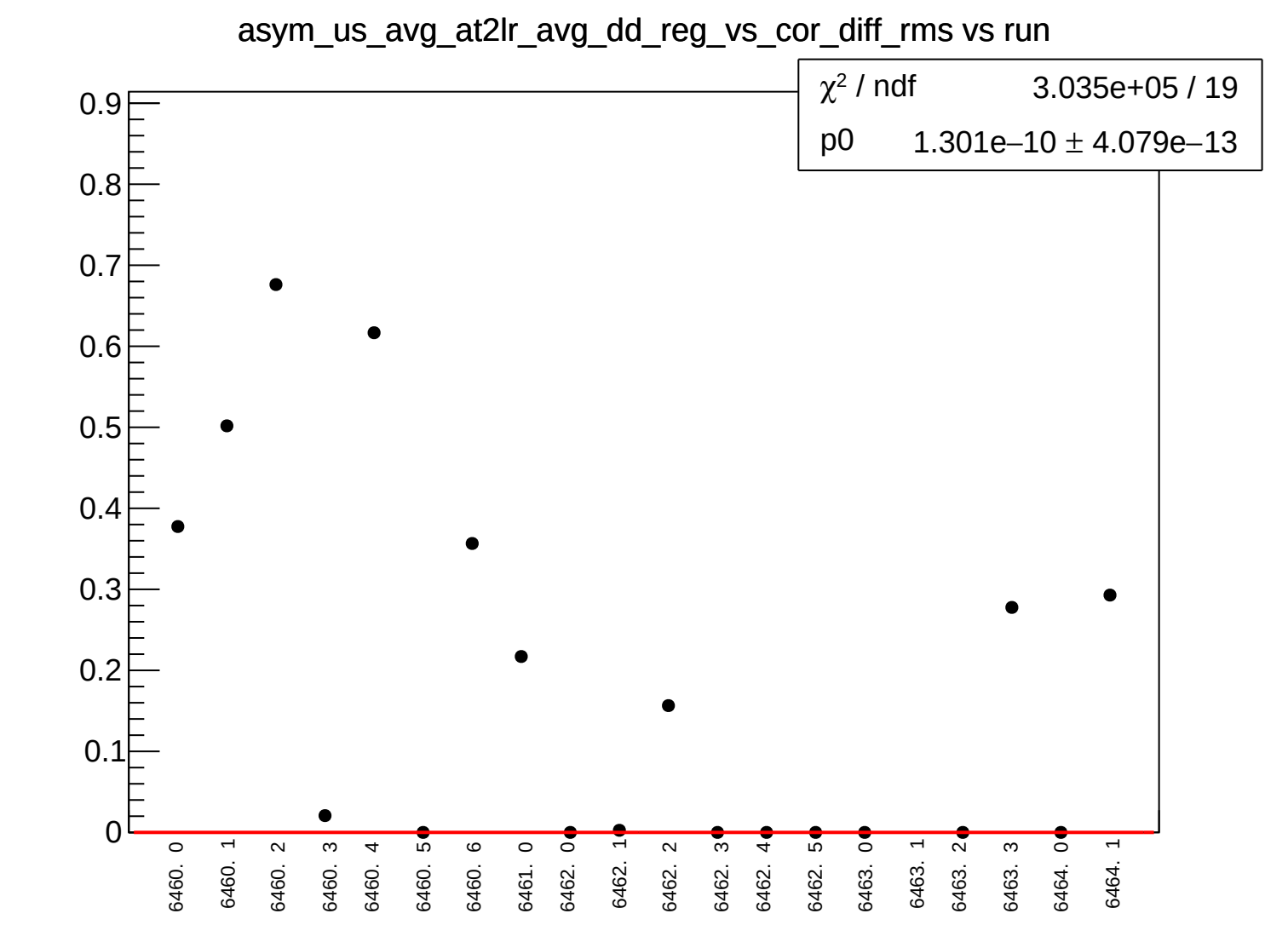

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 332.6 / 19
p0 6920 ± 10.88
7300
7200
7100
7000
6900
6800
6700
6600
6500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

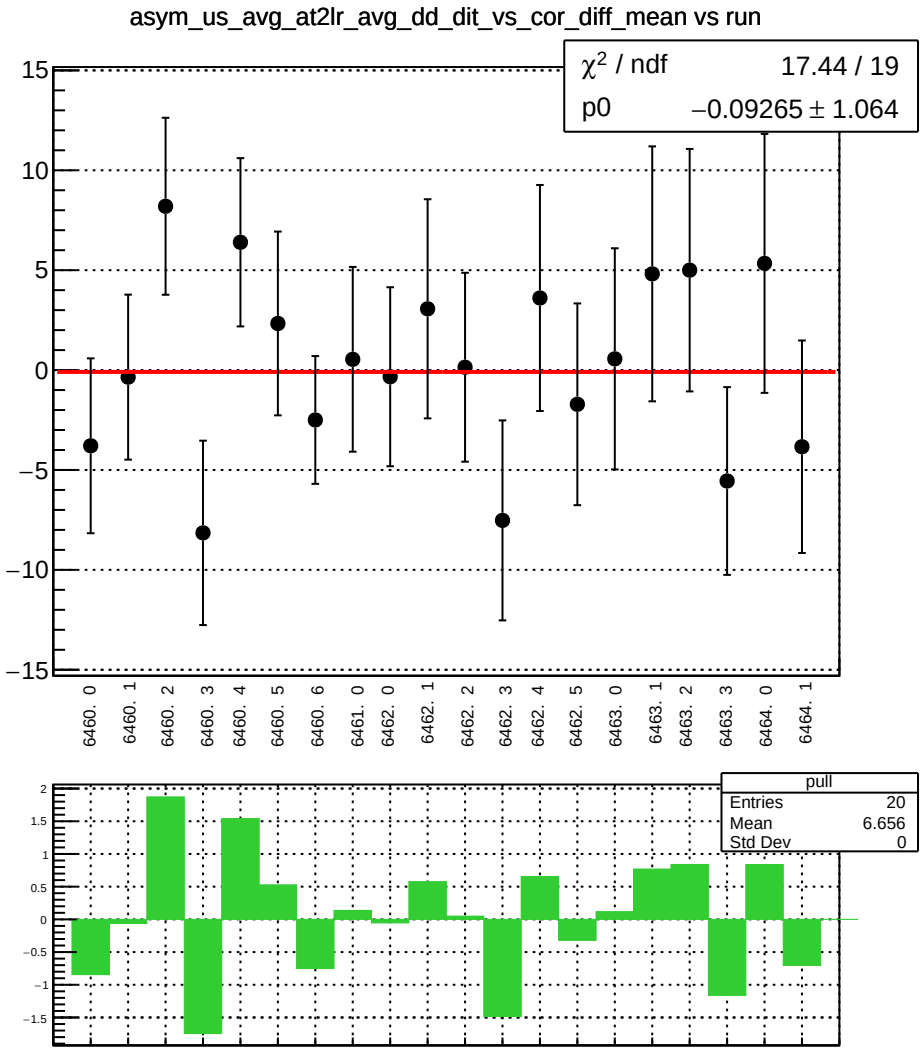

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 11.46 / 19
p0 3251± 1.542e+04
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.27
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

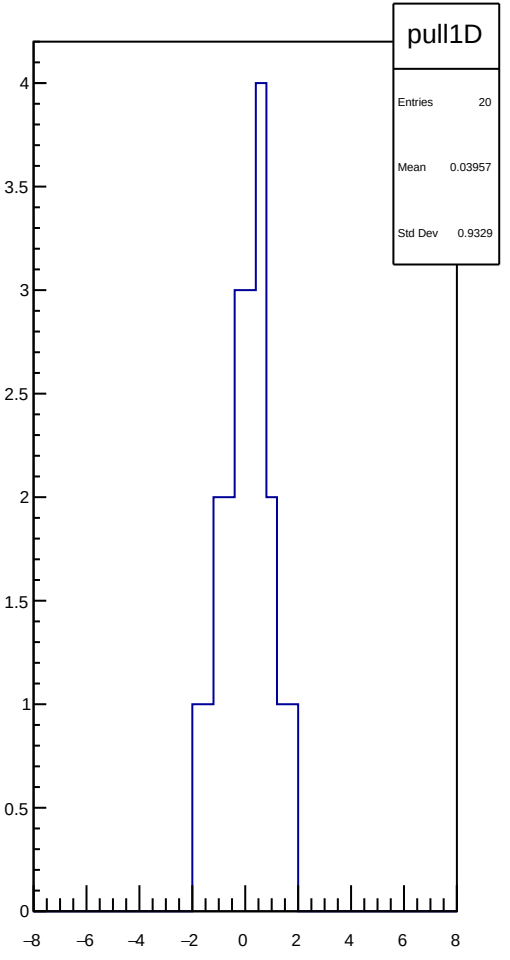

pull1D
Entries 20
Mean −0.03466
Std Dev 0.756
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

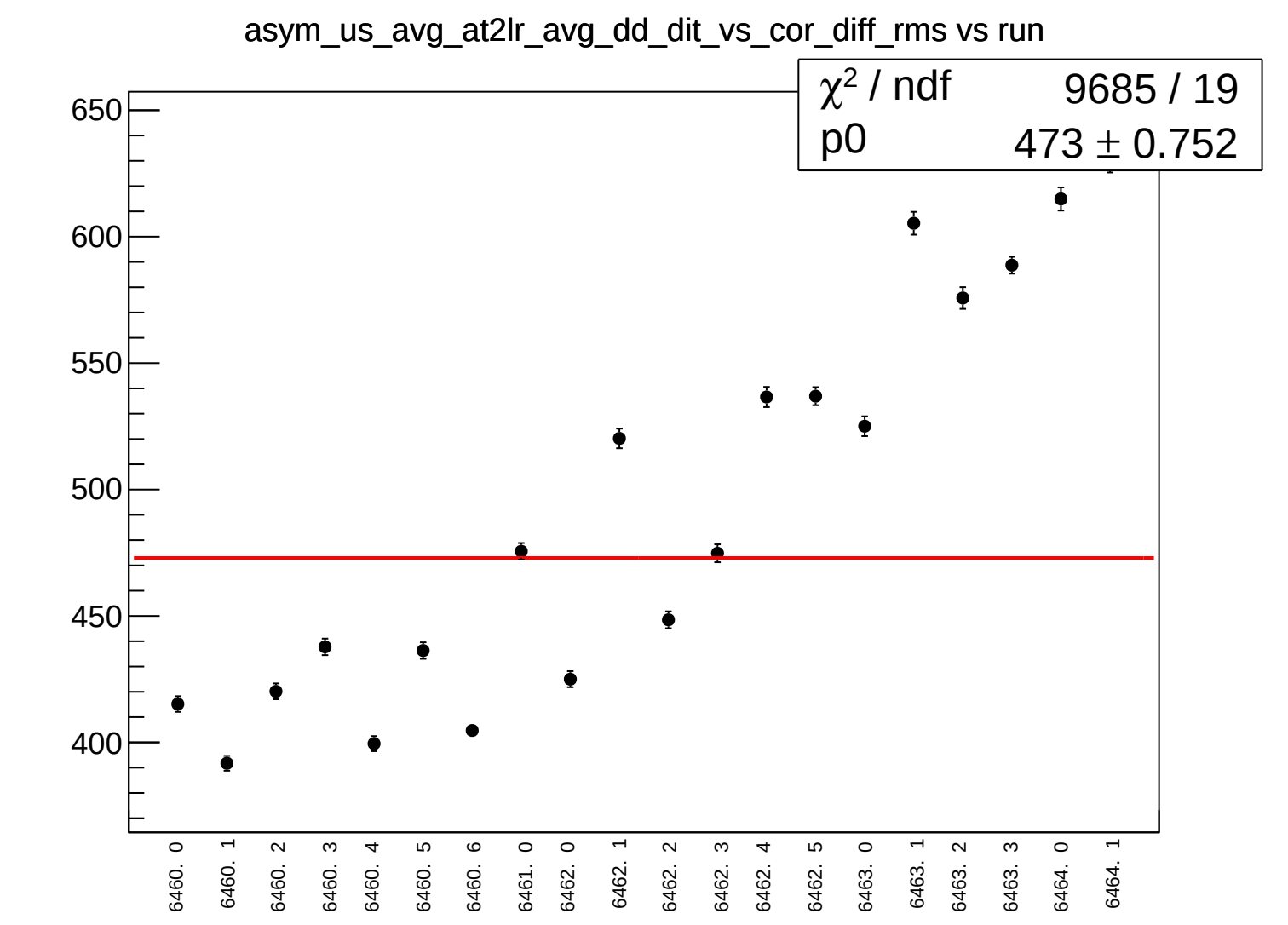

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 333 / 19
p0 6940 ± 10.91
7400
7200
7000
6800
6600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

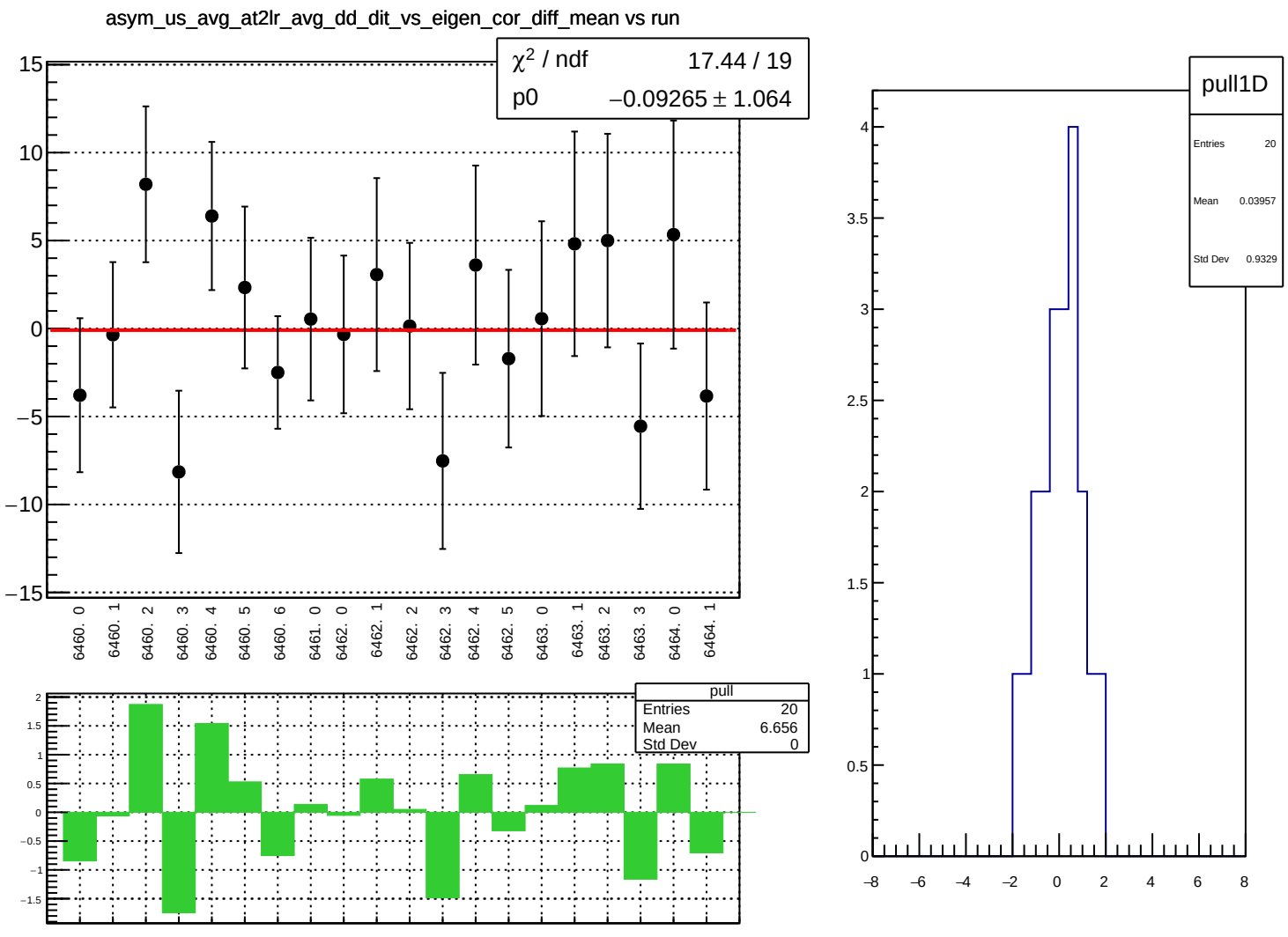

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 19.53 / 19
p0 −1.348e−13 ± 5.768e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 14.32
Std Dev 7.237
pull1D
Entries 20
Mean −0.2227
Std Dev 0.9627

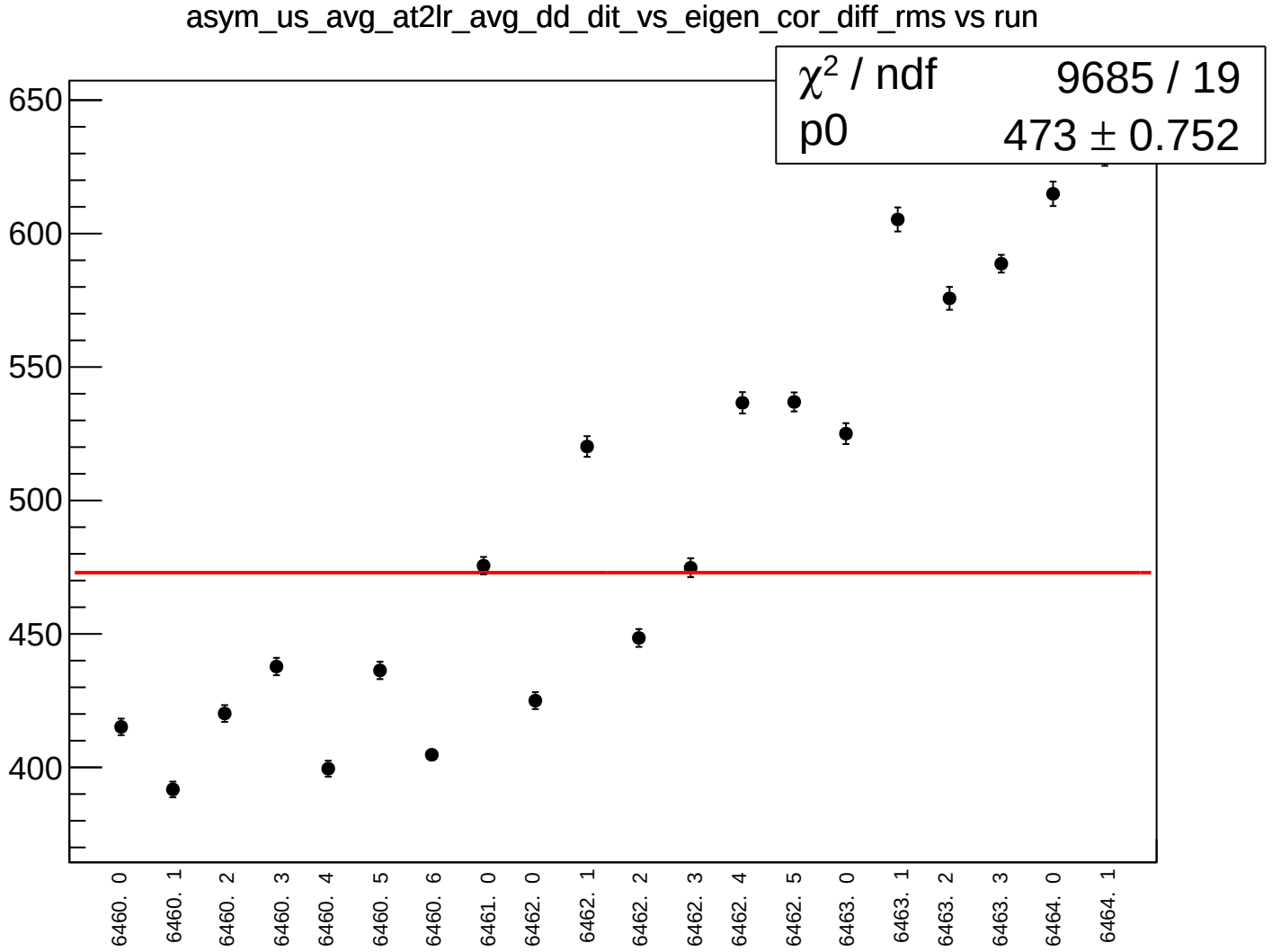

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.035e+05 / 19
p0 1.301e−10 ± 4.079e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

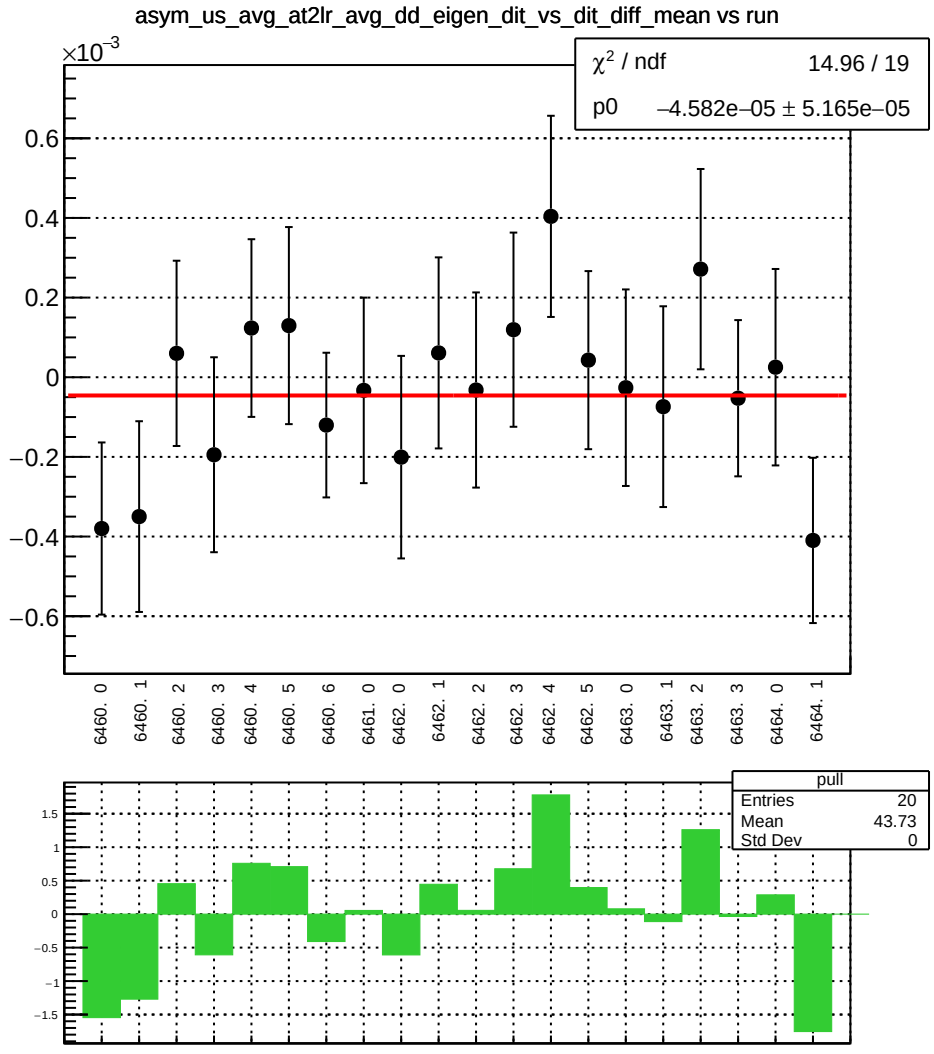

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 17.44 / 19
p0 −0.09265 ± 1.064
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.656
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

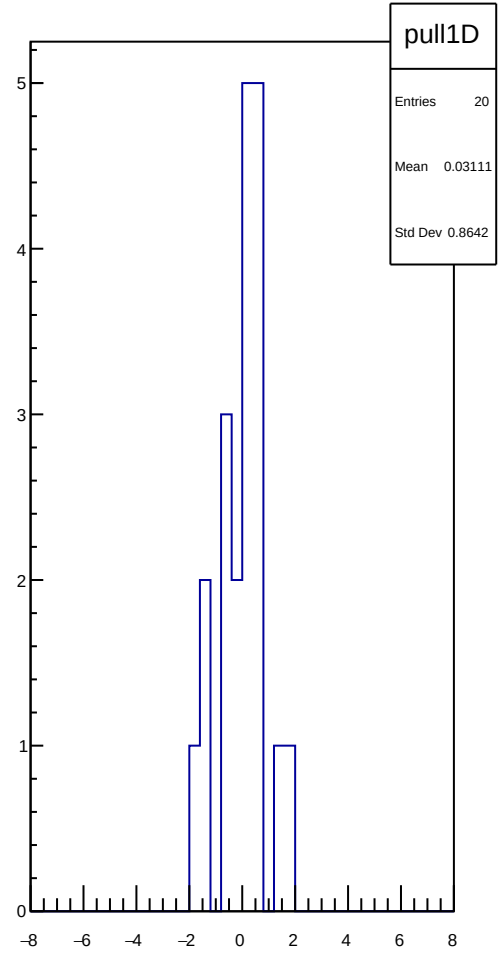

pull1D
Entries 20
Mean 0.03957
Std Dev 0.9329
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

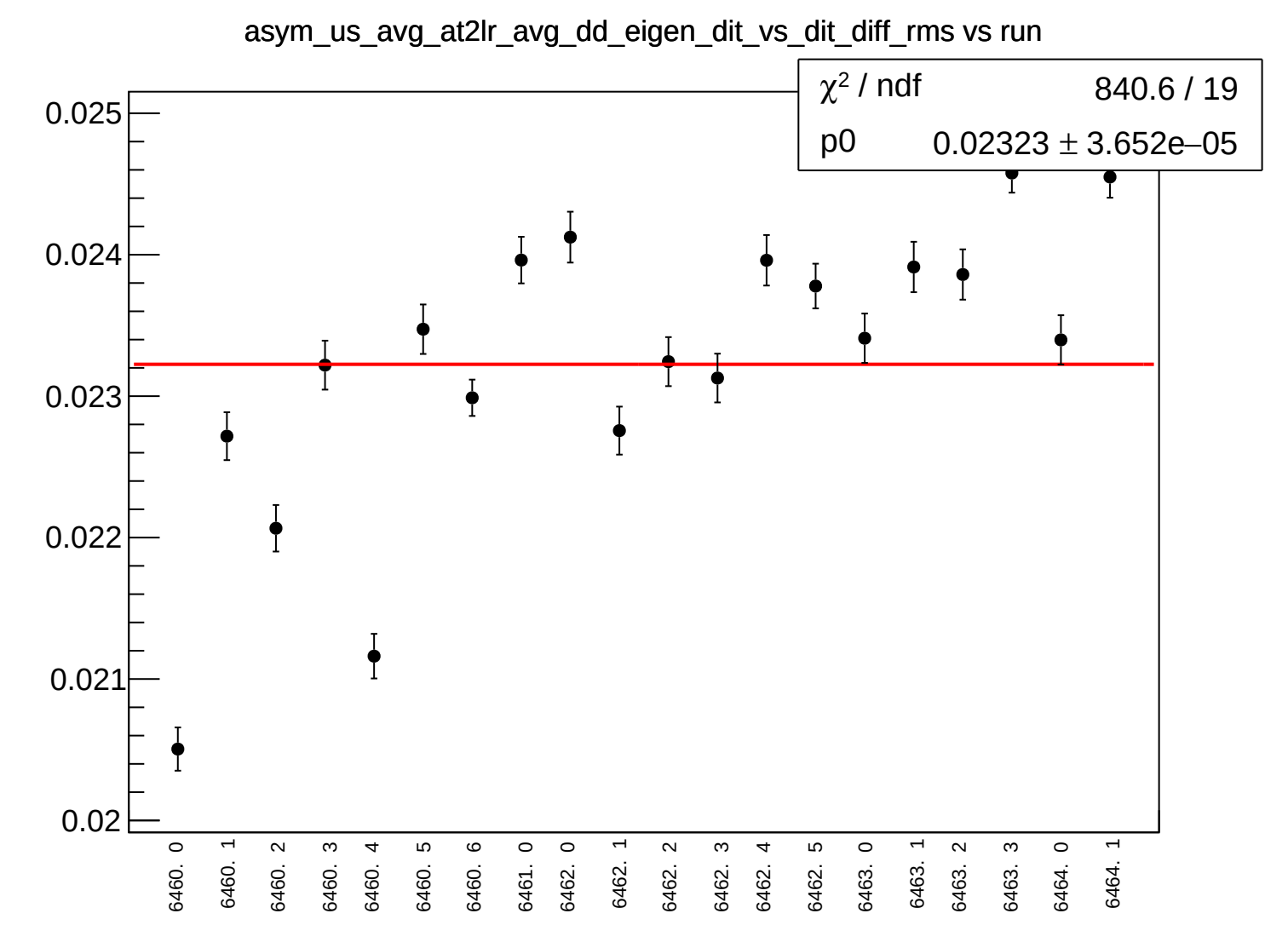

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9685 / 19
p0 473 ± 0.752
650
600
550
500
450
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

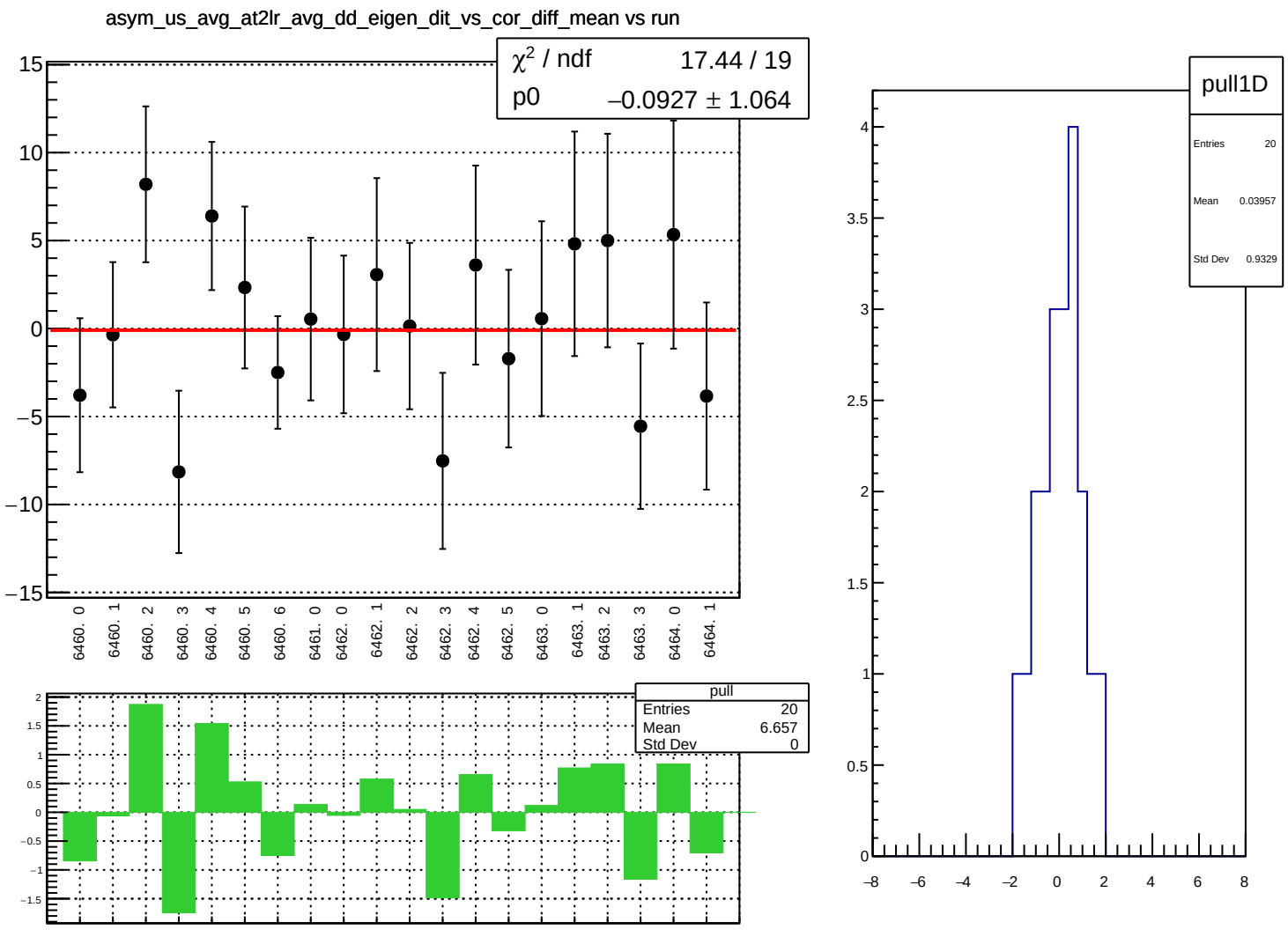

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.44 / 19
p0 −0.09265 ± 1.064
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.656
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03957
Std Dev 0.9329
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

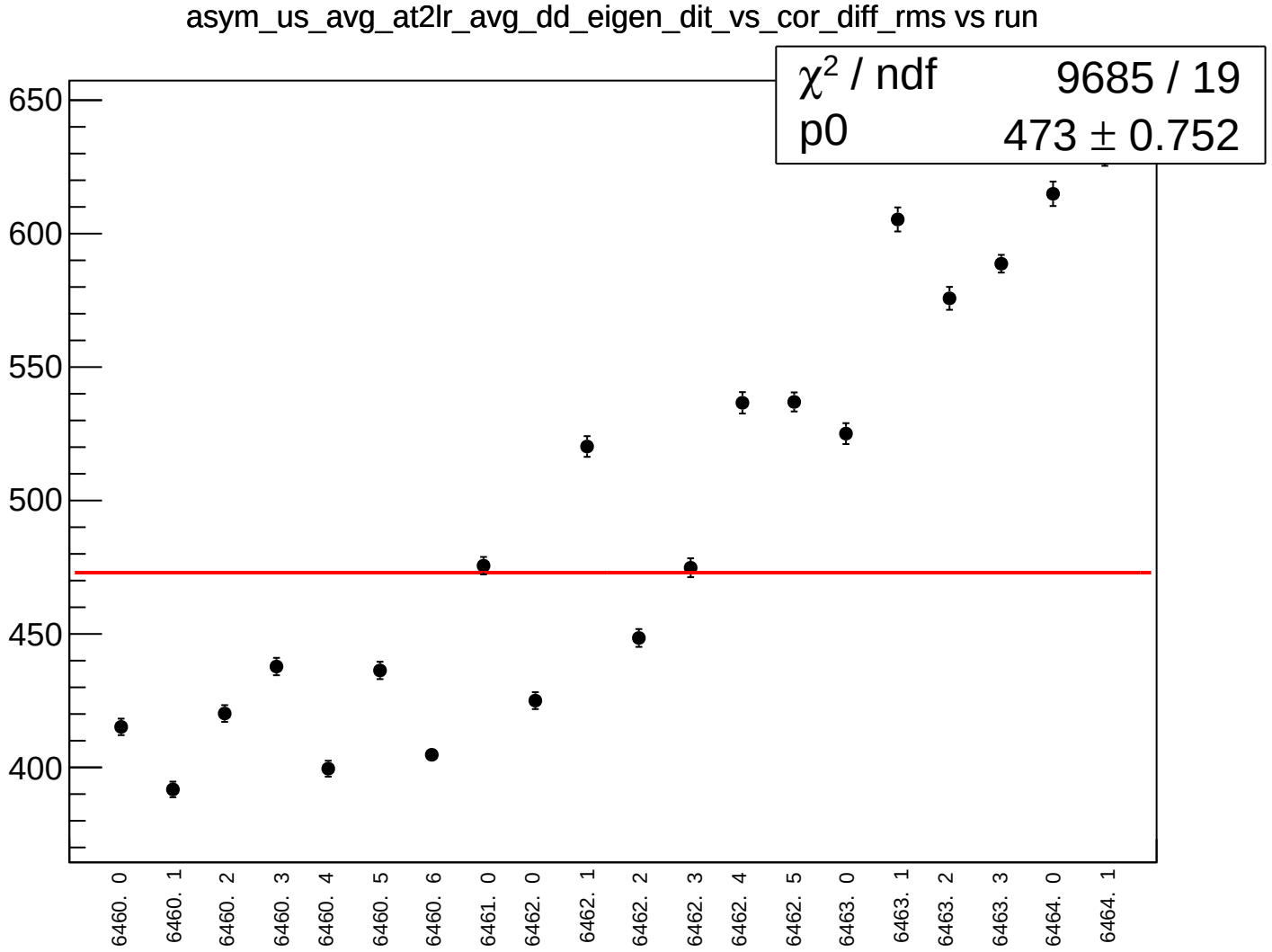

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9685 / 19
p0 473 ± 0.752
650
600
550
500
450
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

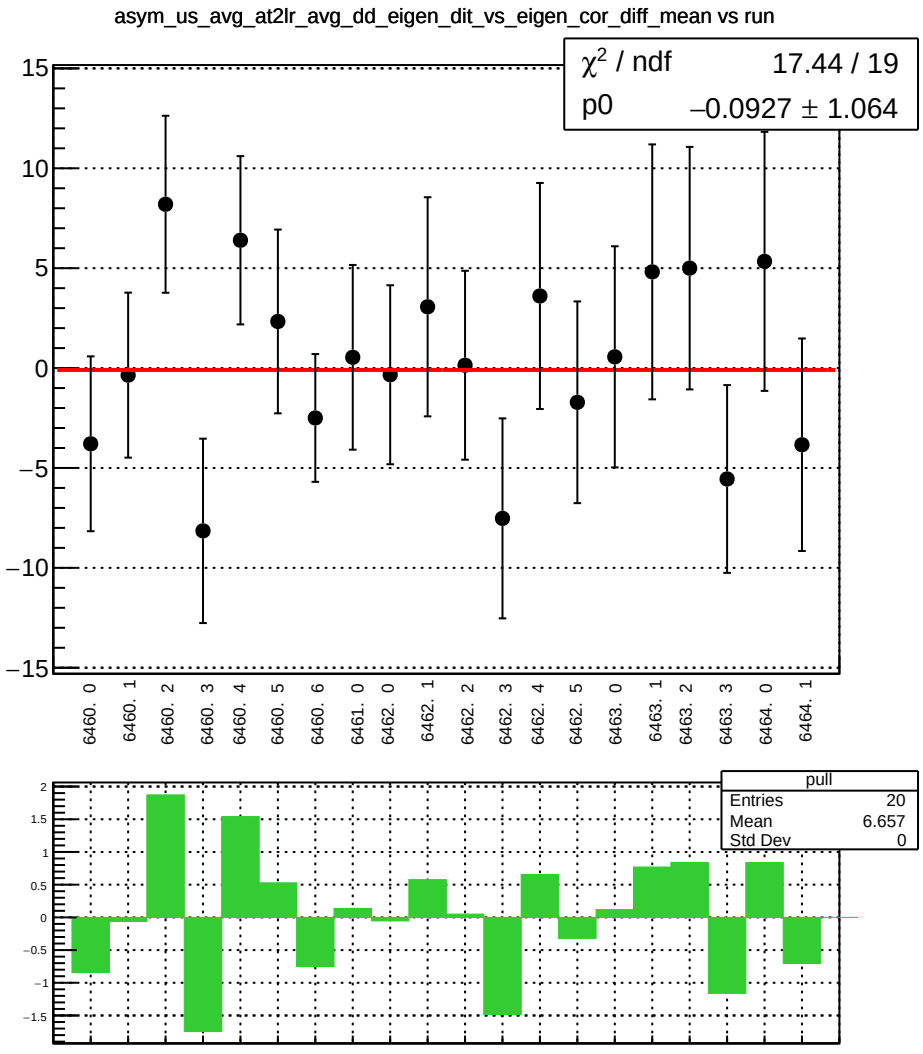

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.96 / 19
p0 −4.582e−05 ± 5.165e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 43.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

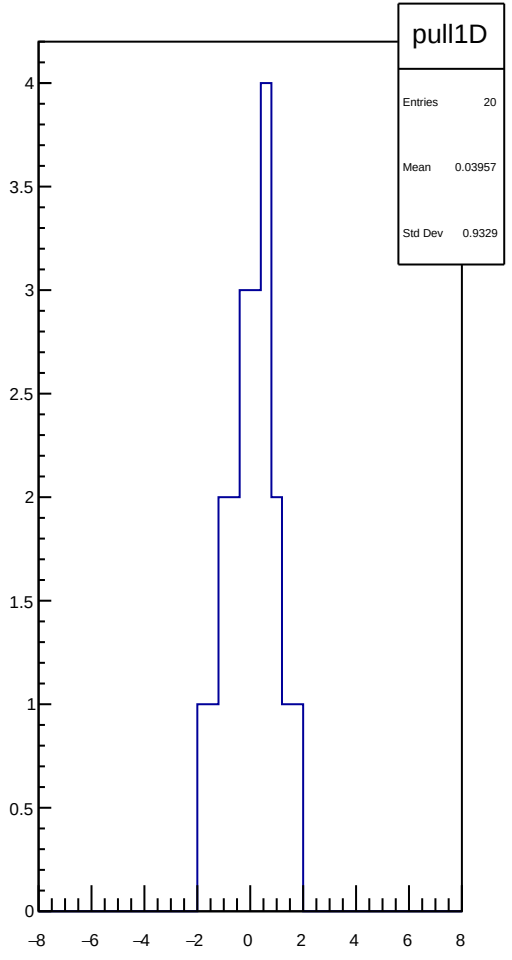

pull1D
Entries 20
Mean 0.03111
Std Dev 0.8642
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

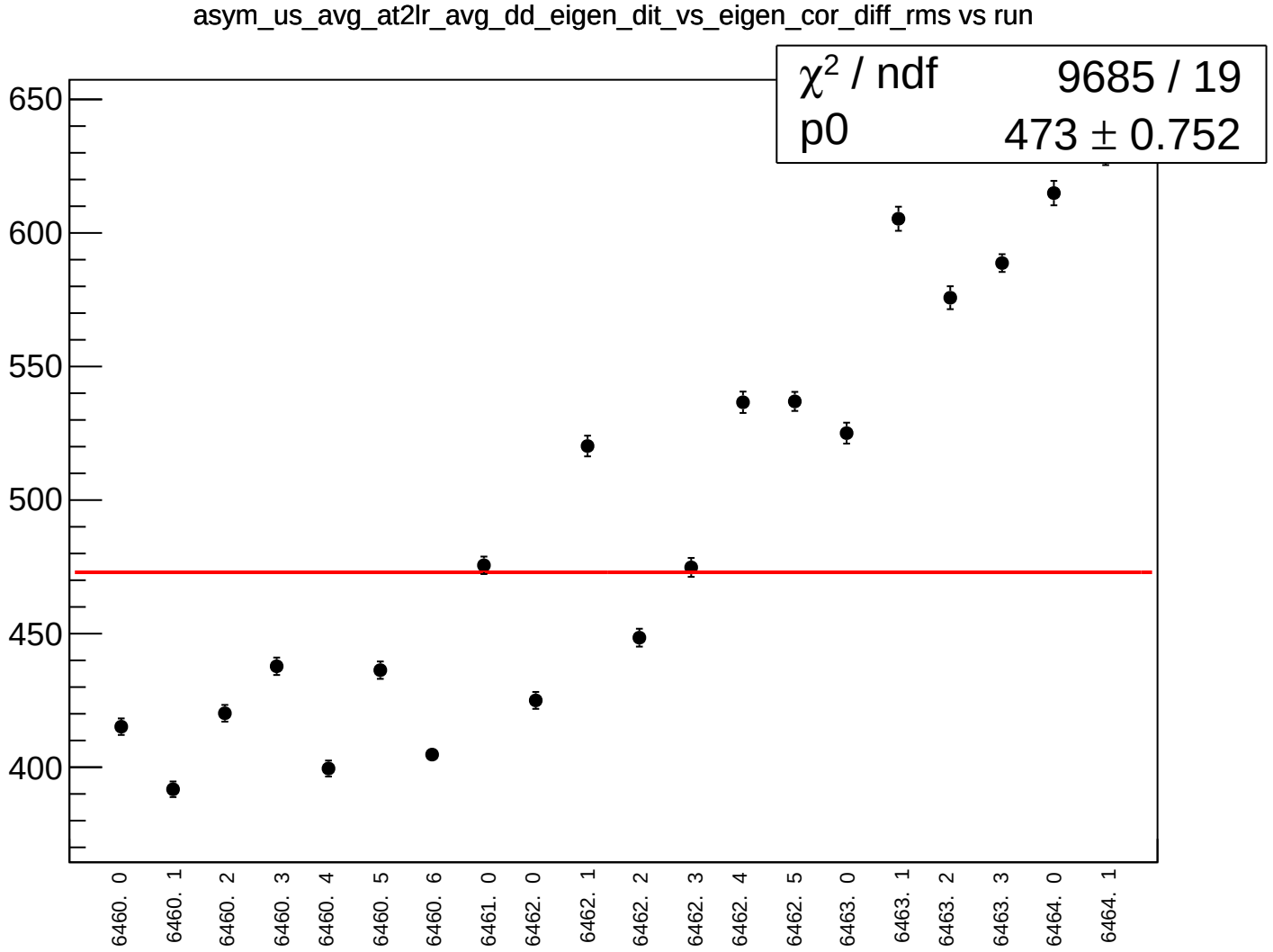

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 840.6 / 19
p0 0.02323 ± 3.652e−05
0.025
0.024
0.023
0.022
0.021
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

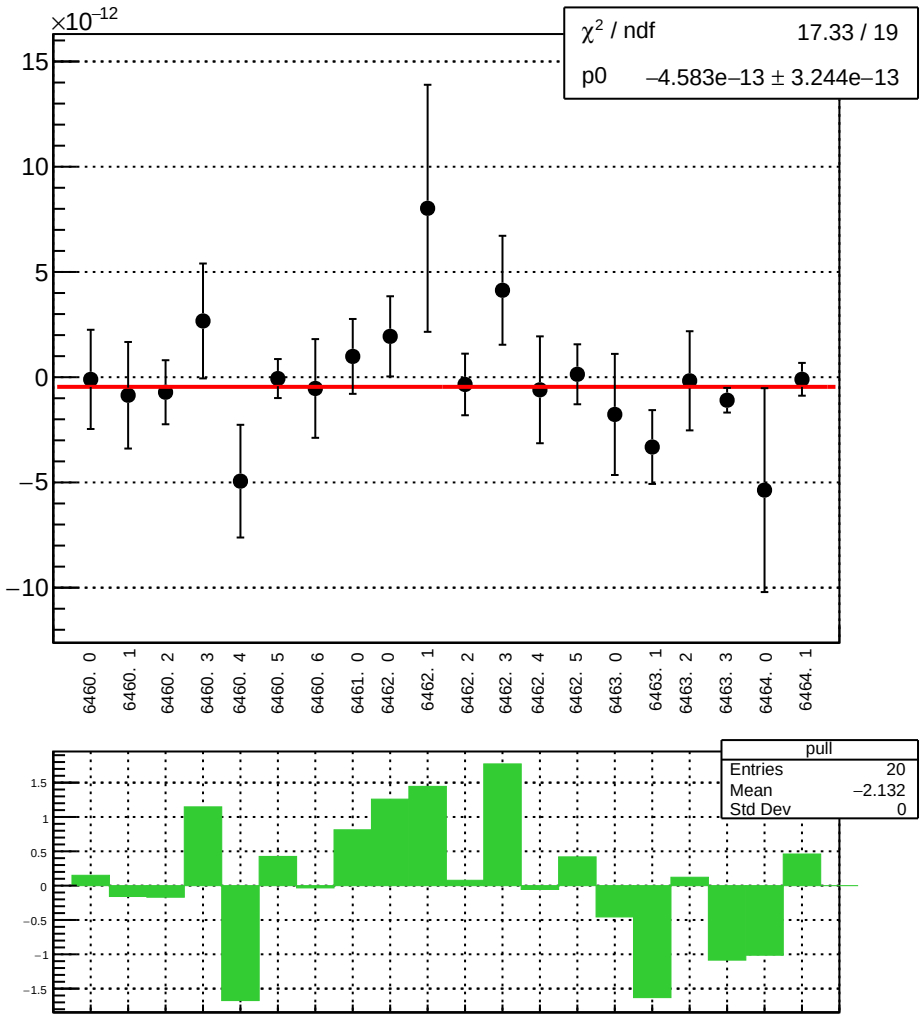

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.44 / 19
p0 −0.0927 ± 1.064
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.657
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03957
Std Dev 0.9329
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

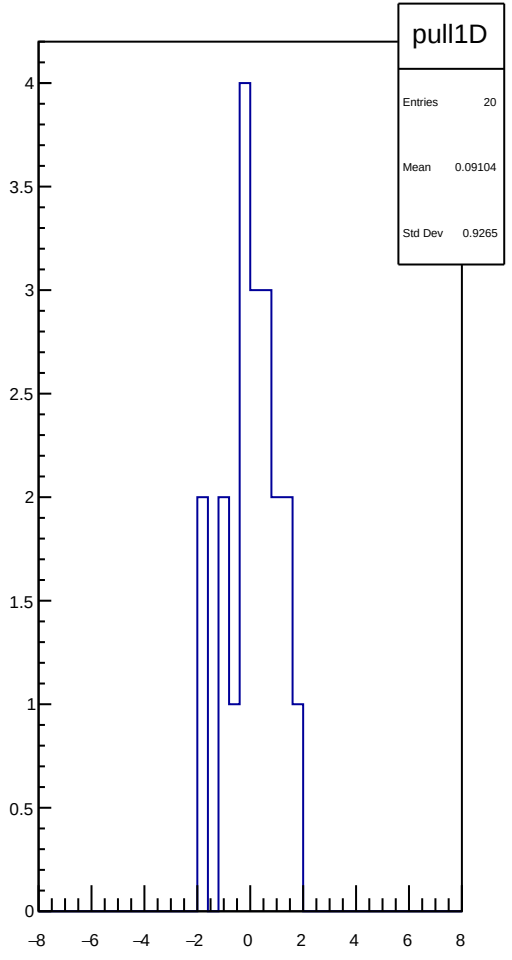

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9685 / 19
p0 473 ± 0.752
650
600
550
500
450
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

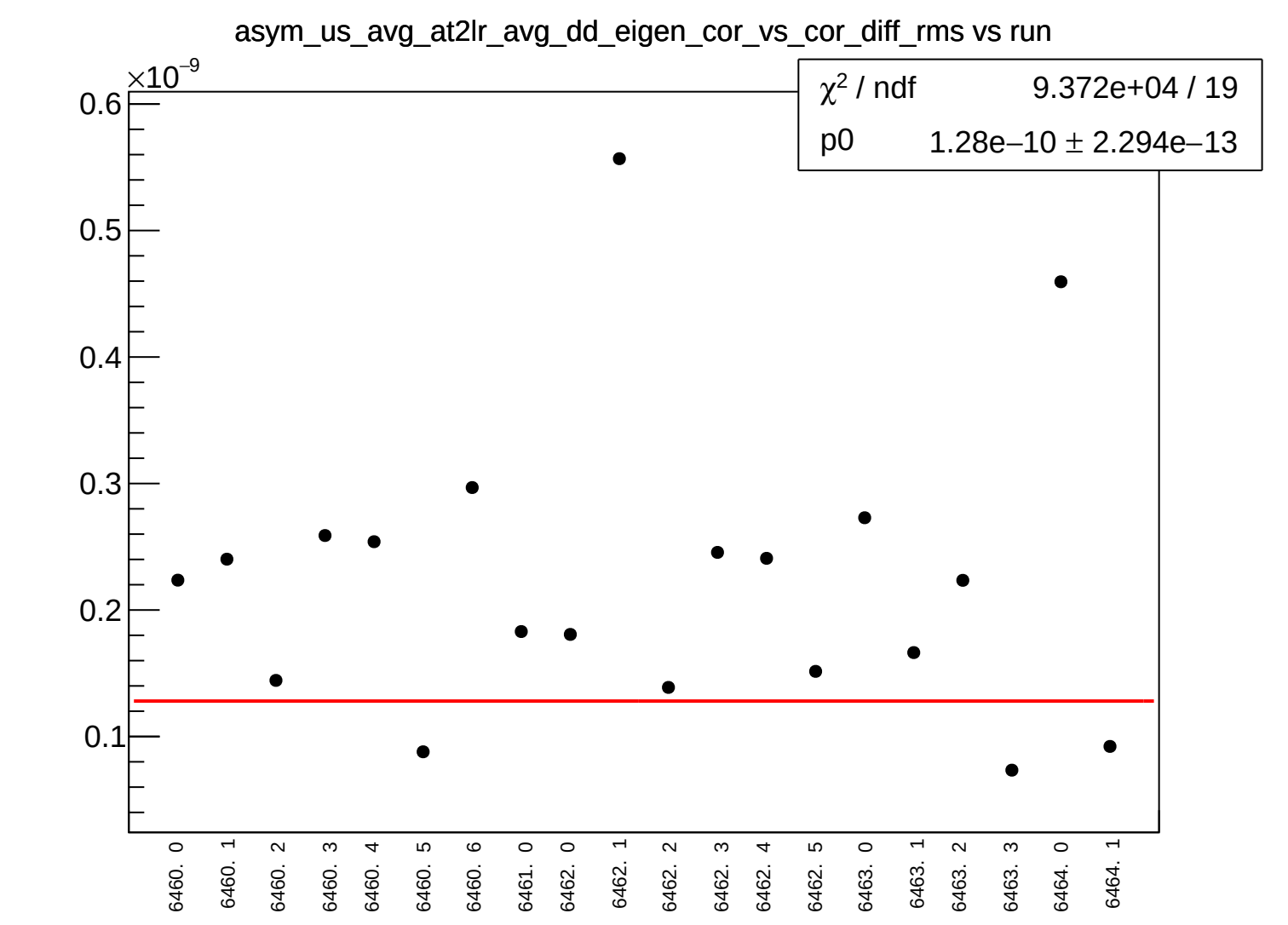

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.44 / 19
p0 −0.0927 ± 1.064
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.657
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

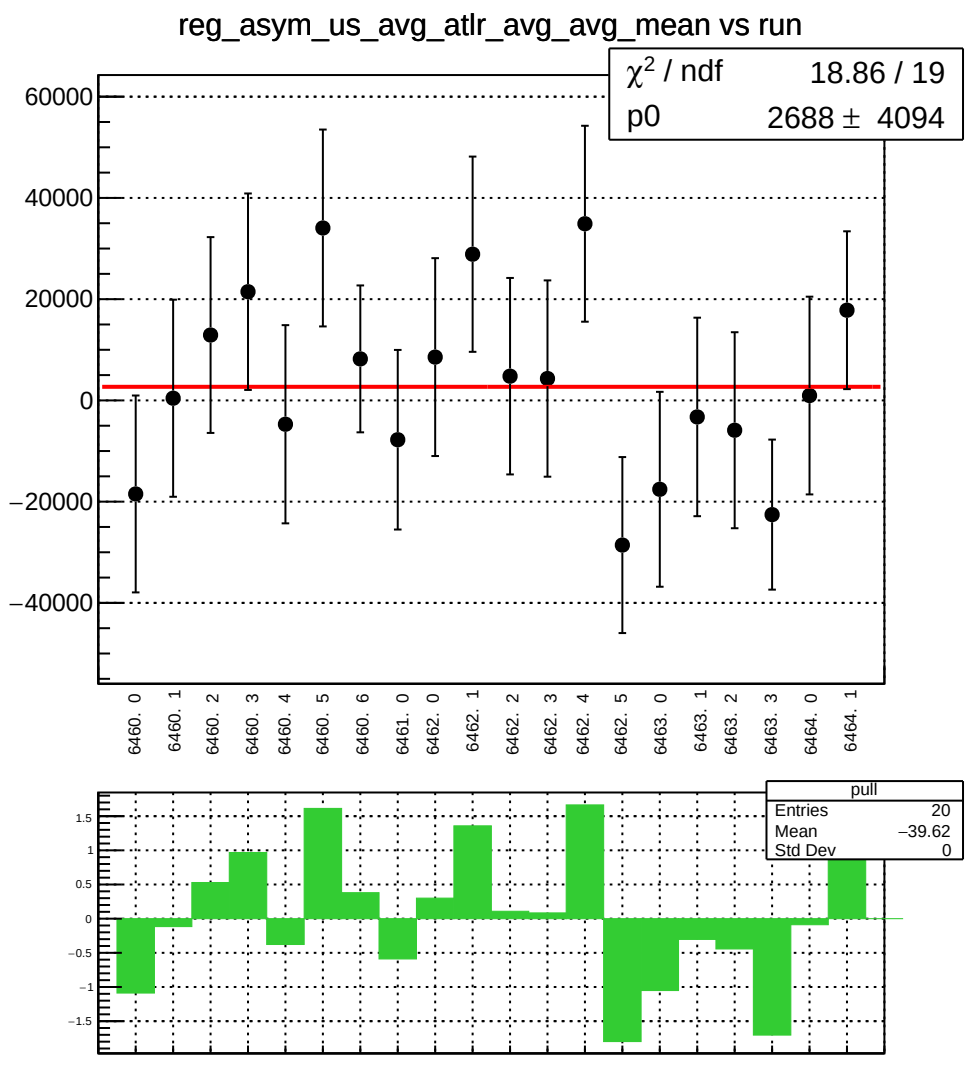

pull1D
Entries 20
Mean 0.03957
Std Dev 0.9329
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

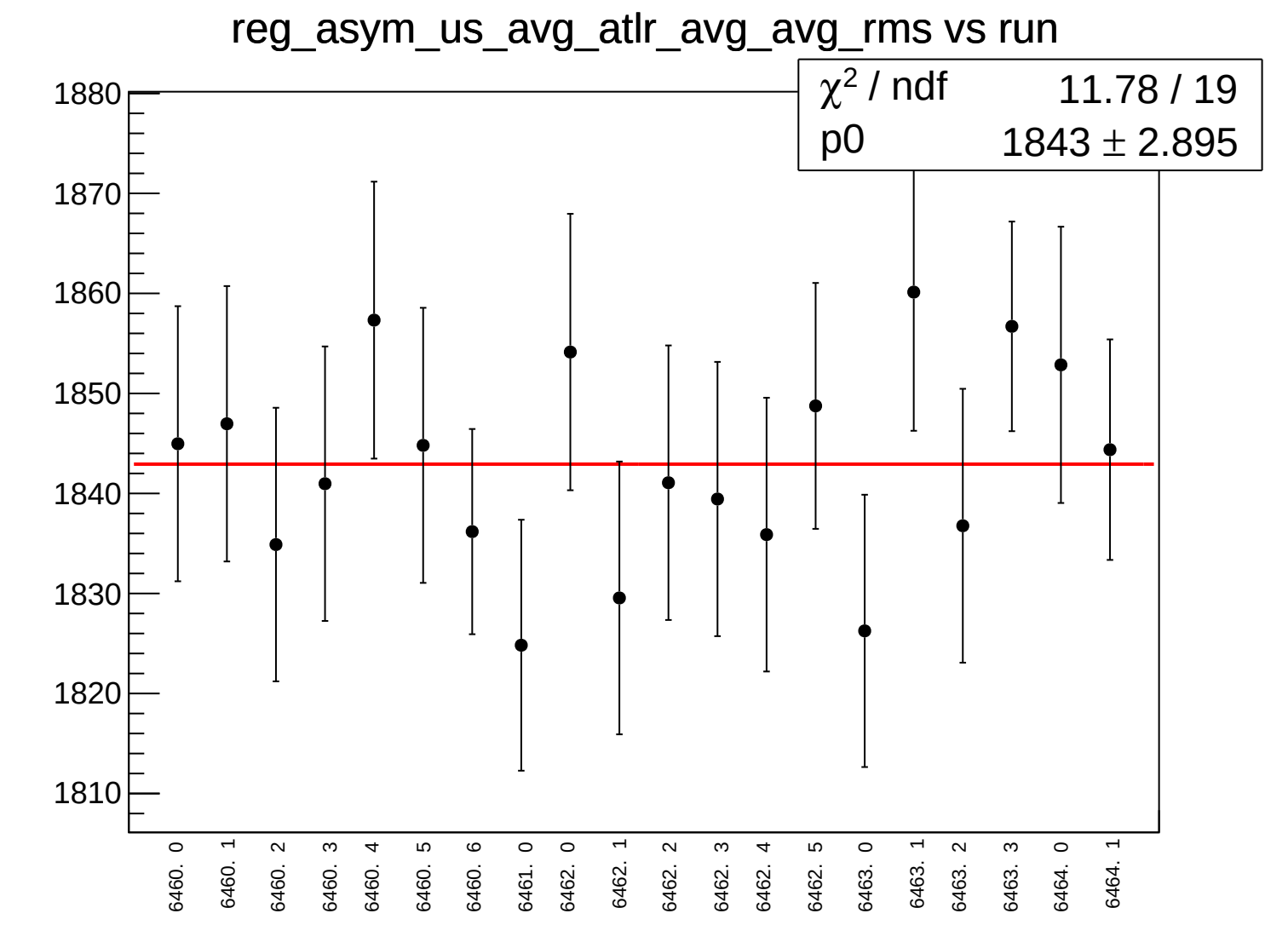

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9685 / 19
p0 473 ± 0.752
650
600
550
500
450
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

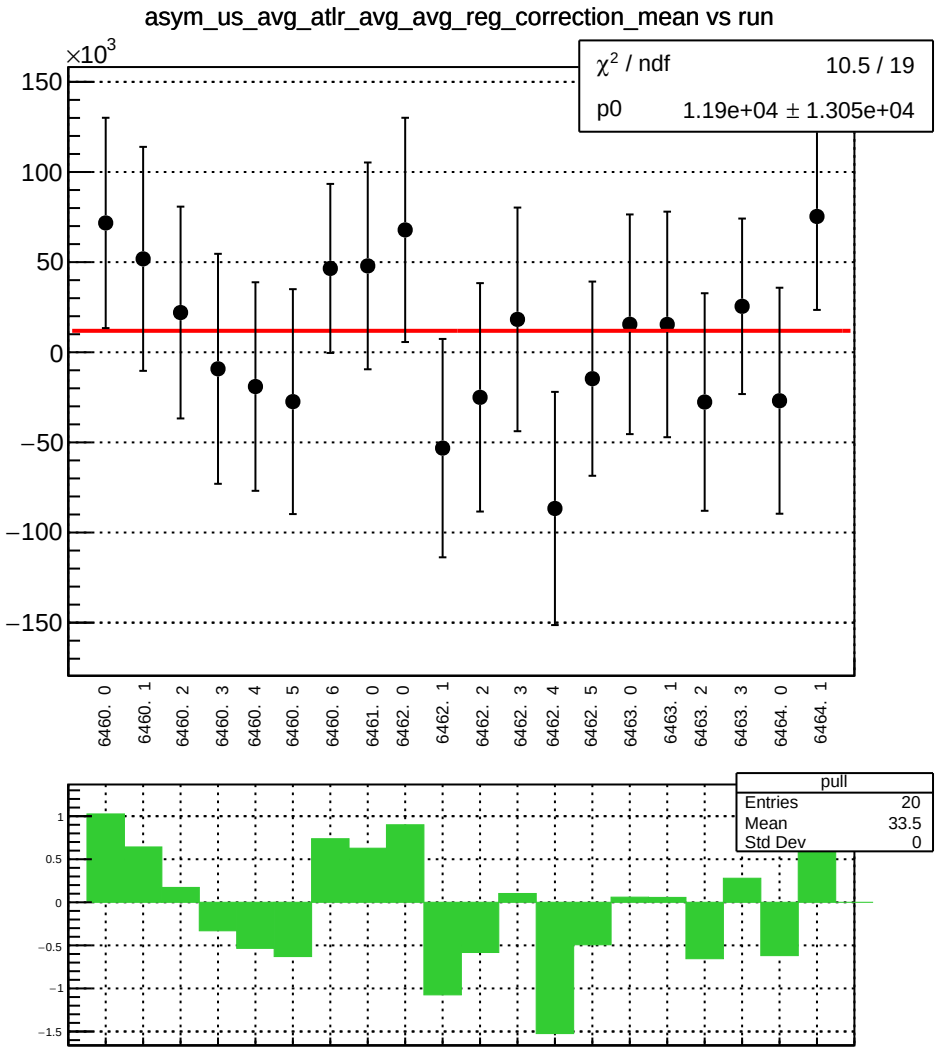

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.33 / 19
p0 −4.583e−13 ± 3.244e−13
15
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.132
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

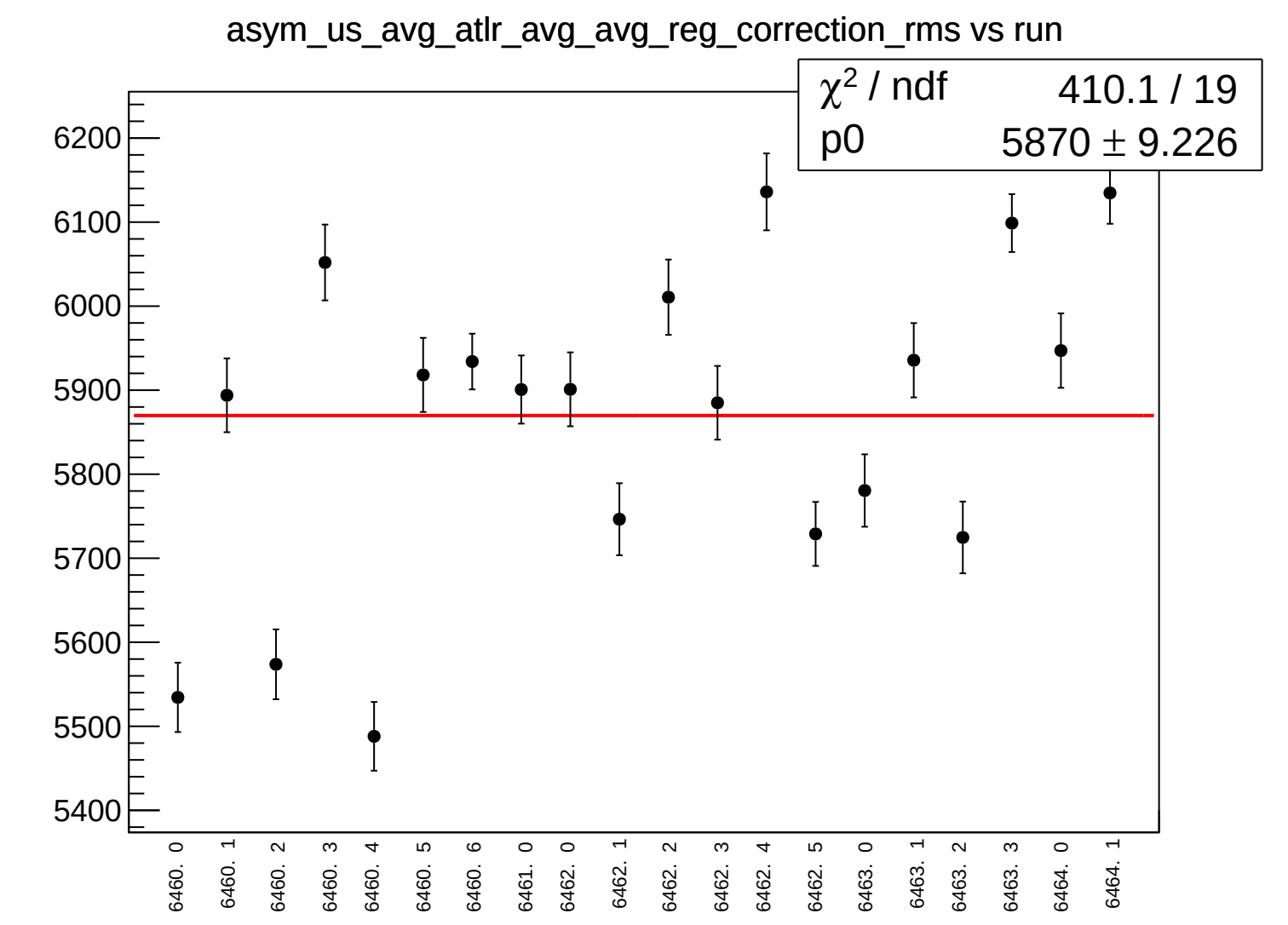

pull1D
Entries 20
Mean 0.09104
Std Dev 0.9265
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

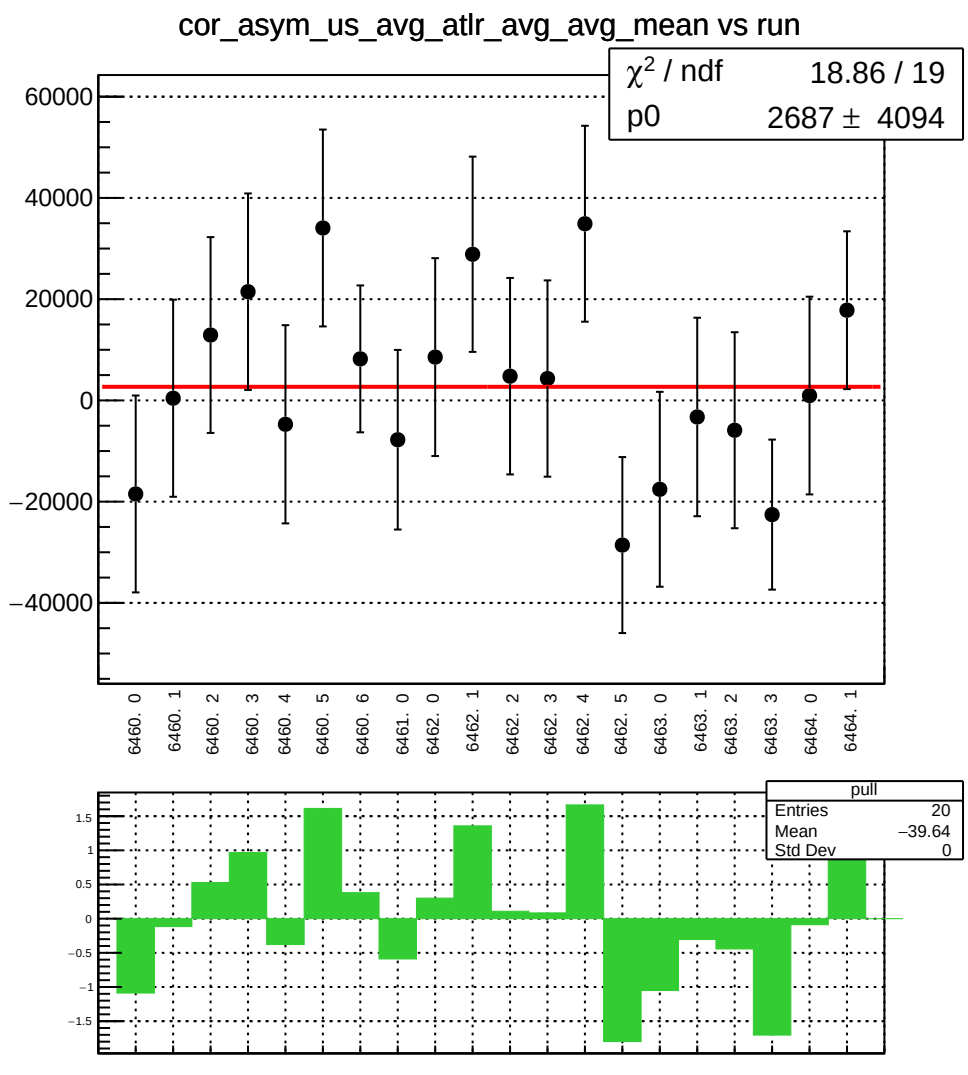

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.372e+04 / 19
p0 1.28e−10 ± 2.294e−13
0.6
0.5
0.4
0.3
0.2
0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

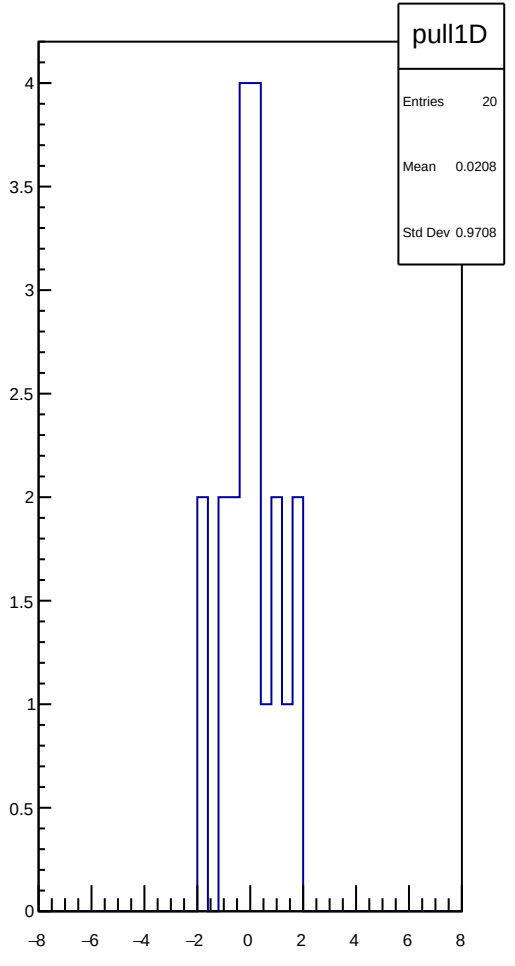

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 18.86 / 19
p0 2688 ± 4094
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −39.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0208
Std Dev 0.9708
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

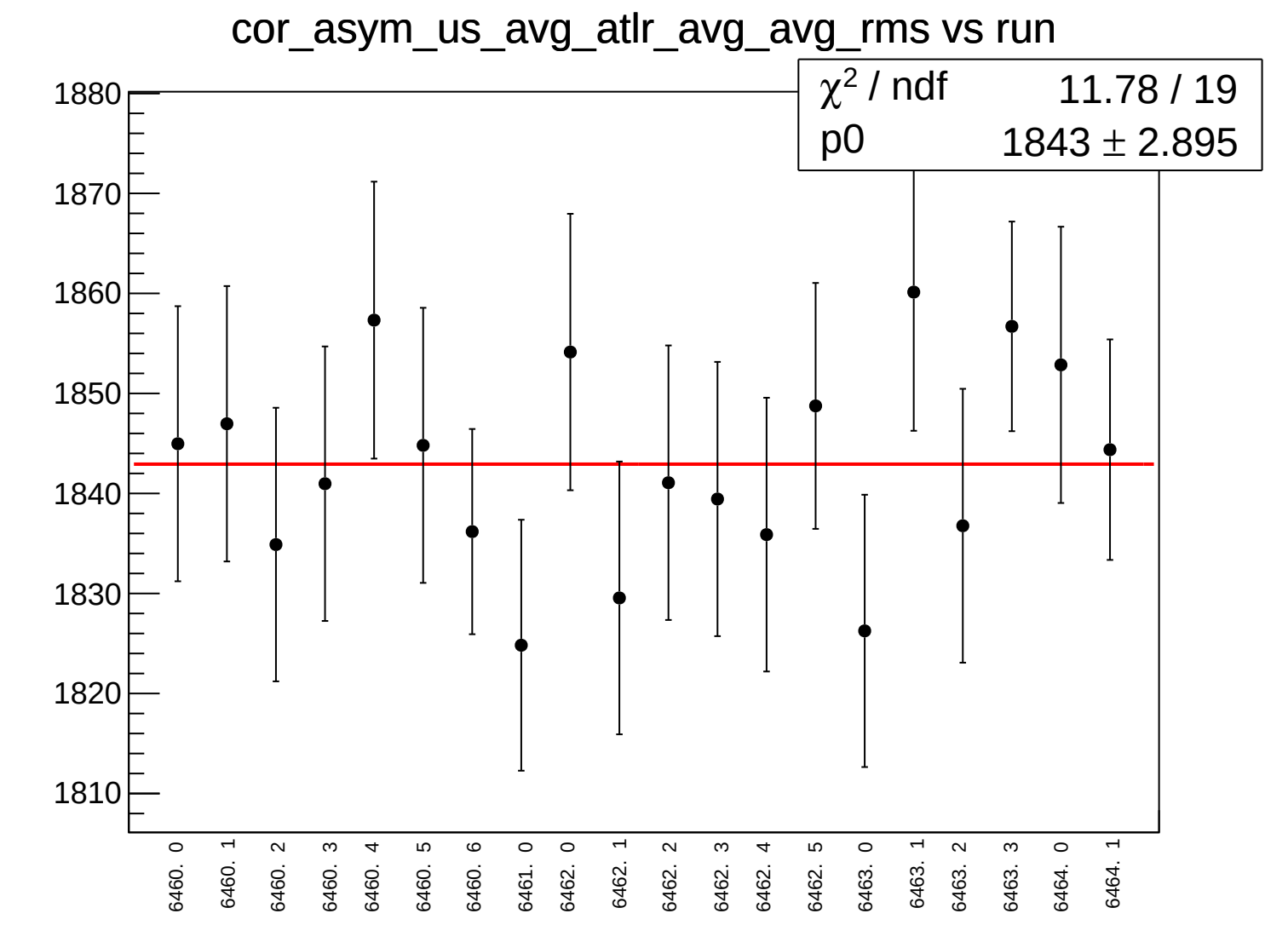

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 11.78 / 19
p0 1843 ± 2.895
1880
1870
1860
1850
1840
1830
1820
1810
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

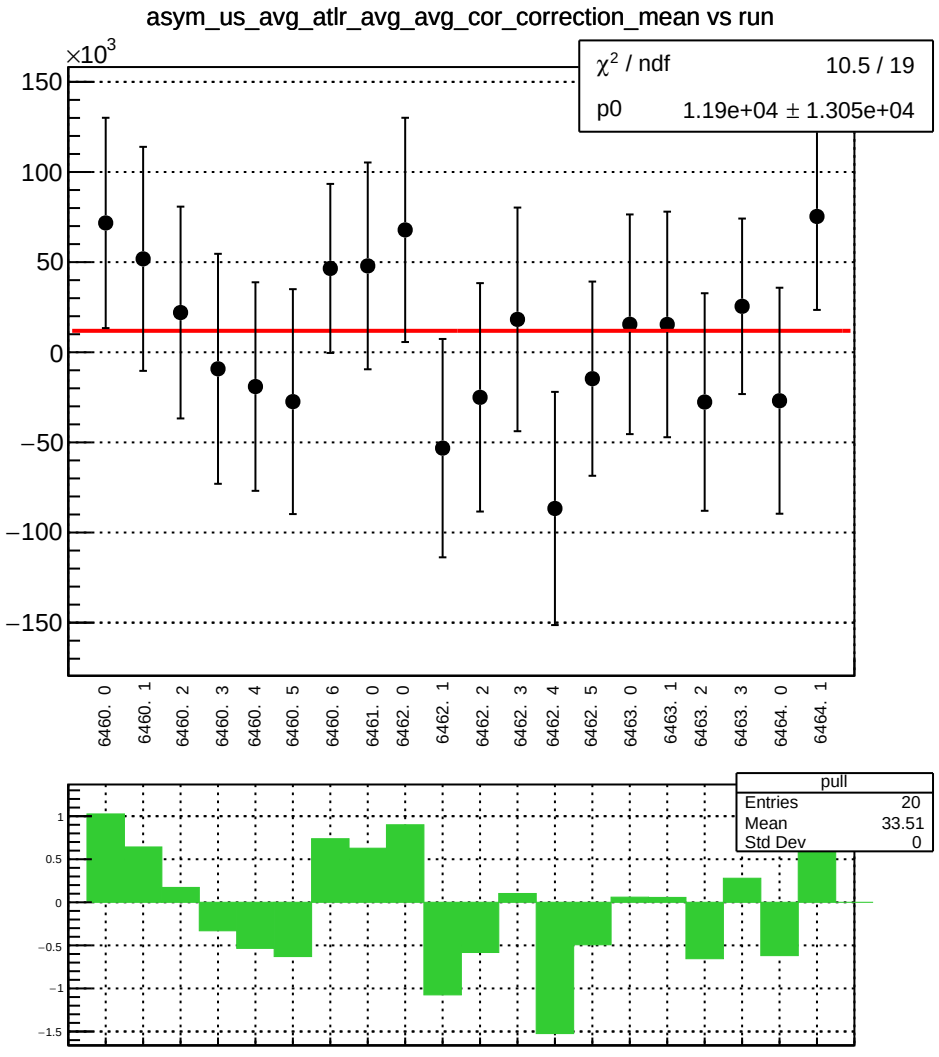

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 10.5 / 19
p0 1.19e+04 ± 1.305e+04
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03071
Std Dev 0.7238
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

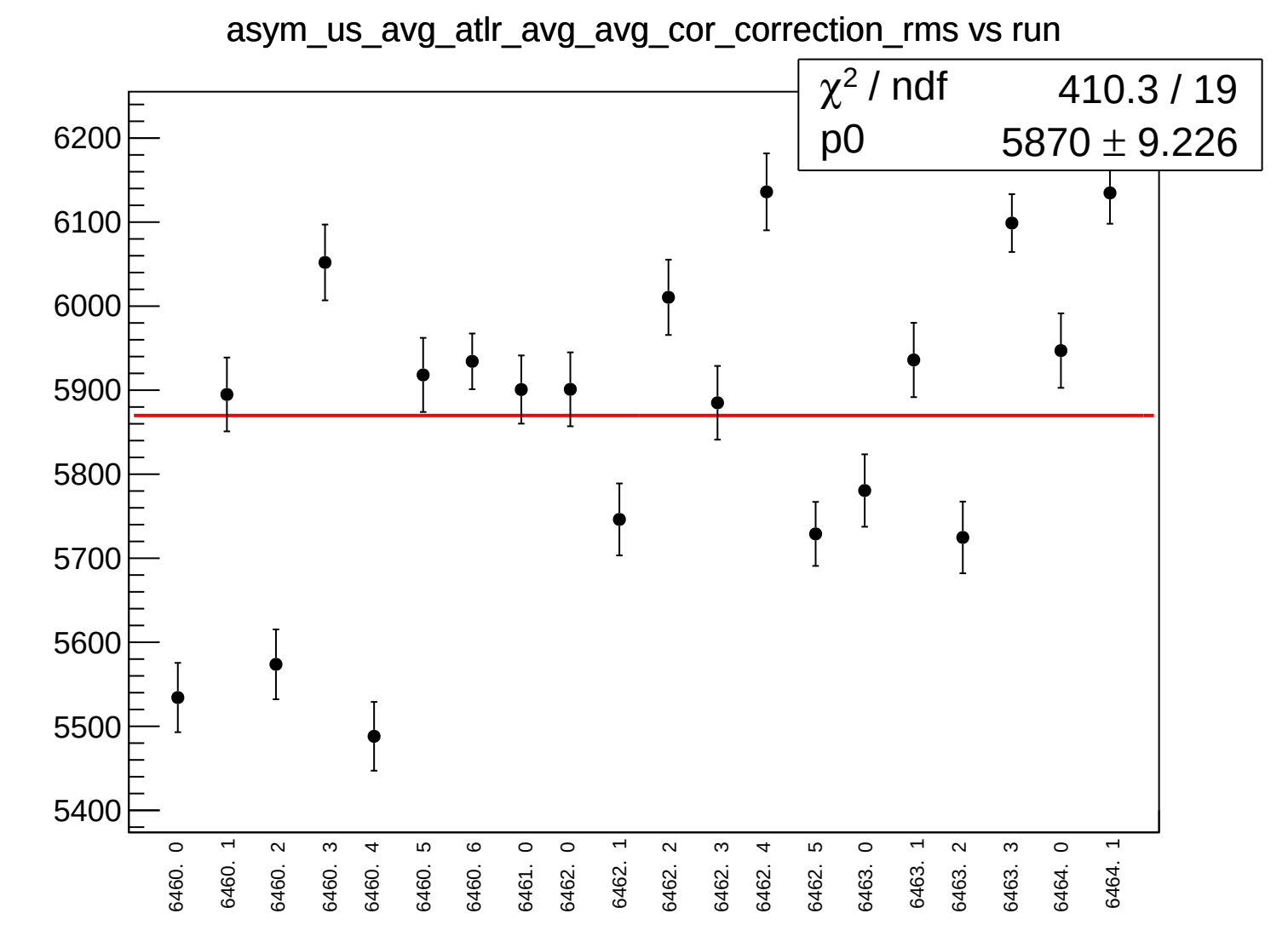

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 410.1 / 19
p0 5870 ± 9.226
6200
6100
6000
5900
5800
5700
5600
5500
5400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

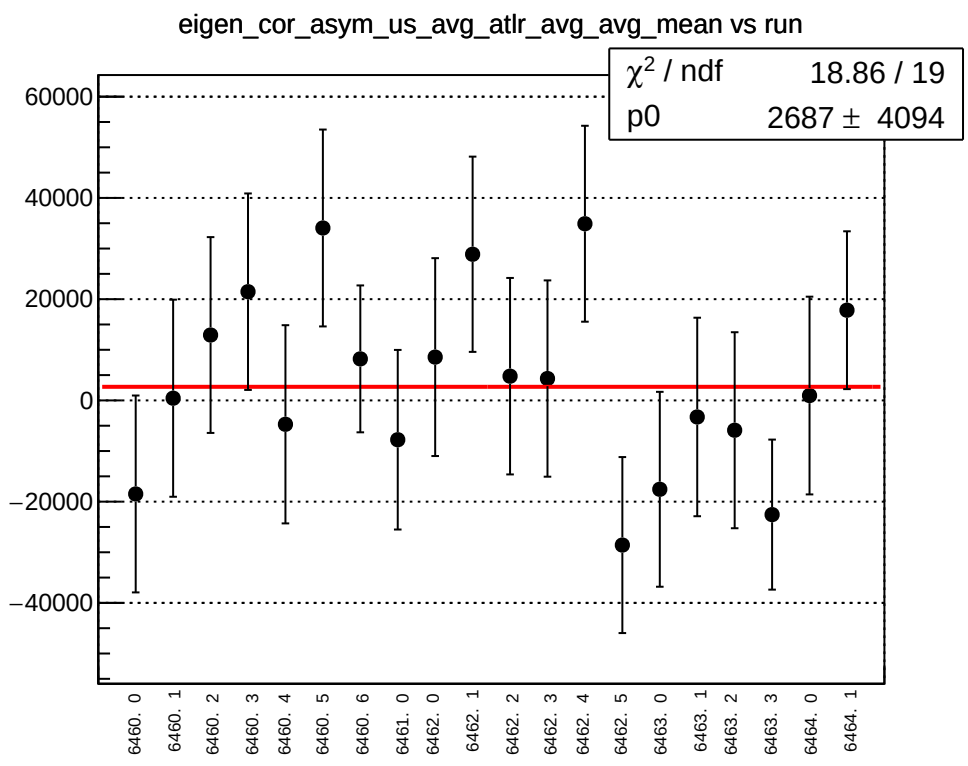

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 18.86 / 19
p0 2687 ± 4094
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −39.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

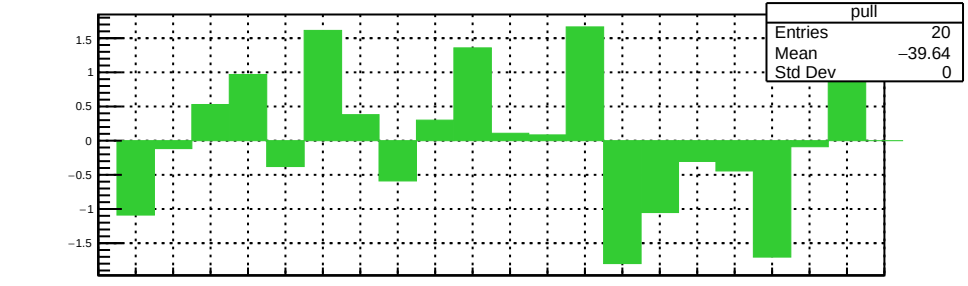

pull1D
Entries 20
Mean 0.0208
Std Dev 0.9708
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

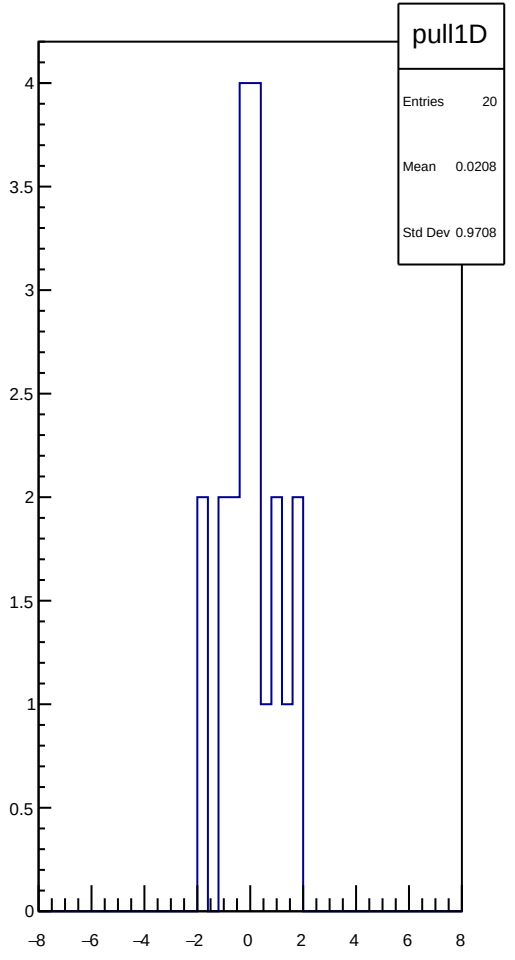

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 11.78 / 19
p0 1843 ± 2.895
1880
1870
1860
1850
1840
1830
1820
1810
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

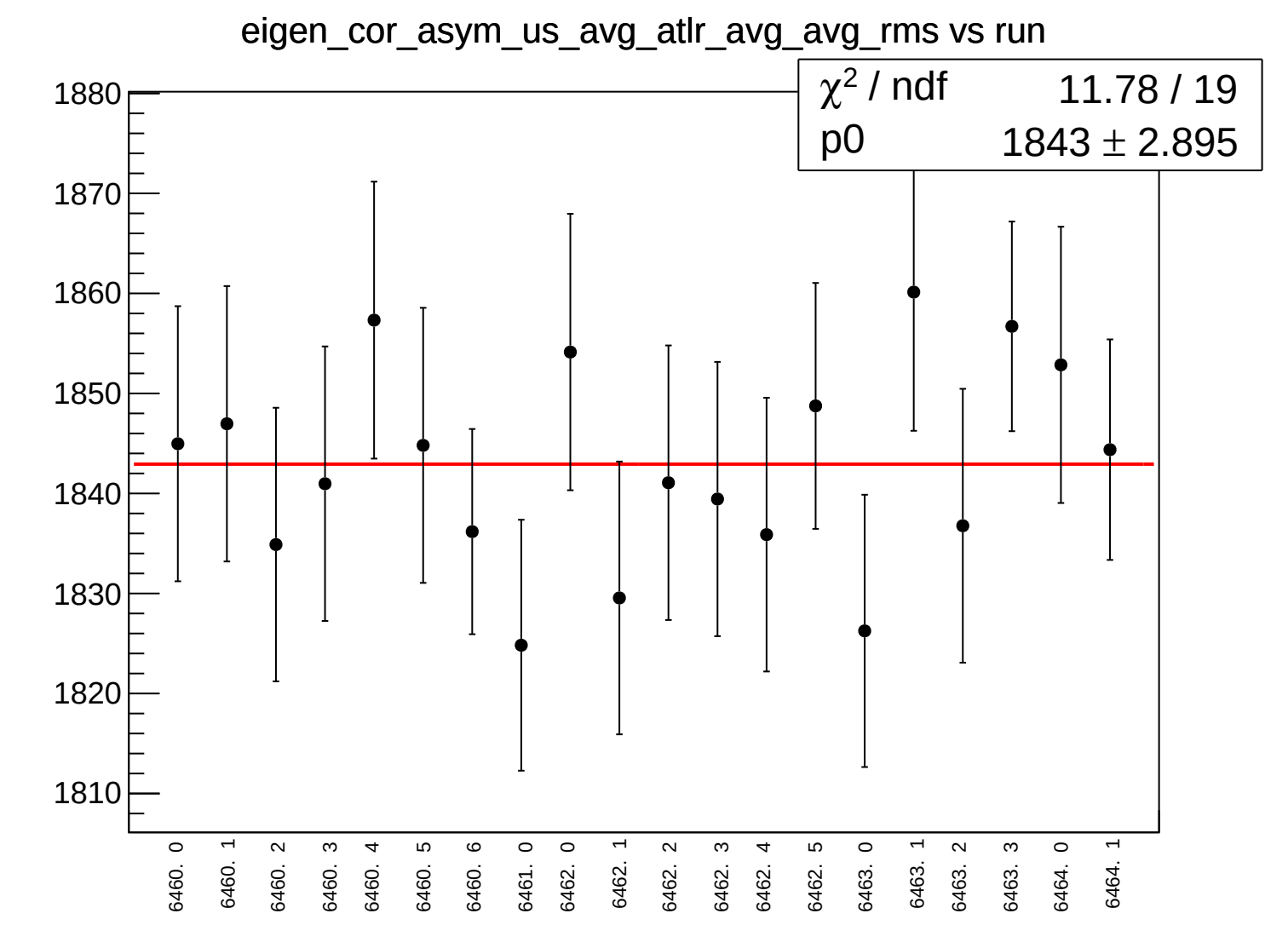

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 10.5 / 19
p0 1.19e+04 ± 1.305e+04
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.51
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0307
Std Dev 0.7238
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

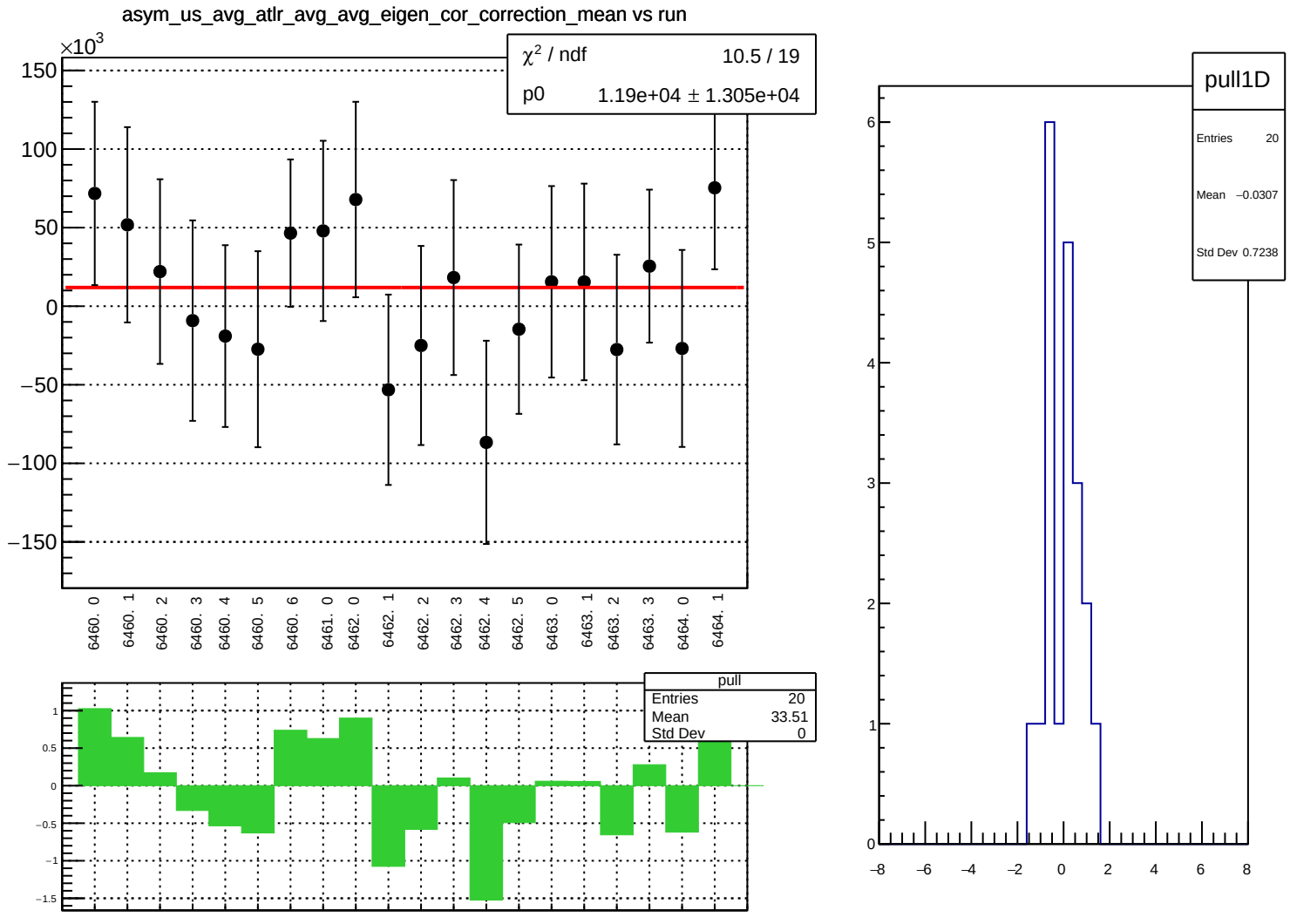

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 410.3 / 19
p0 5870 ± 9.226
6200
6100
6000
5900
5800
5700
5600
5500
5400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

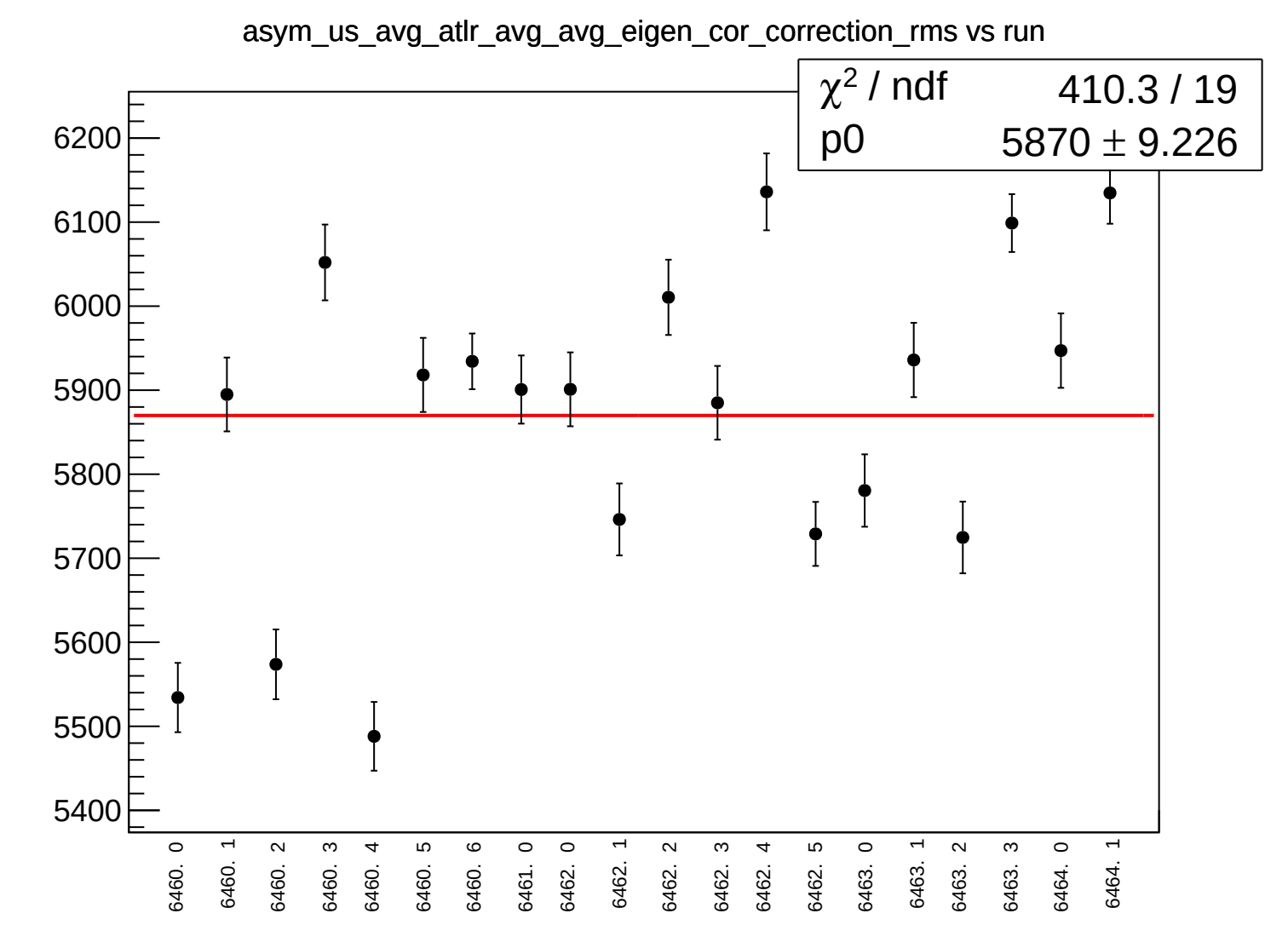

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 18.86 / 19
p0 2687 ± 4094
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

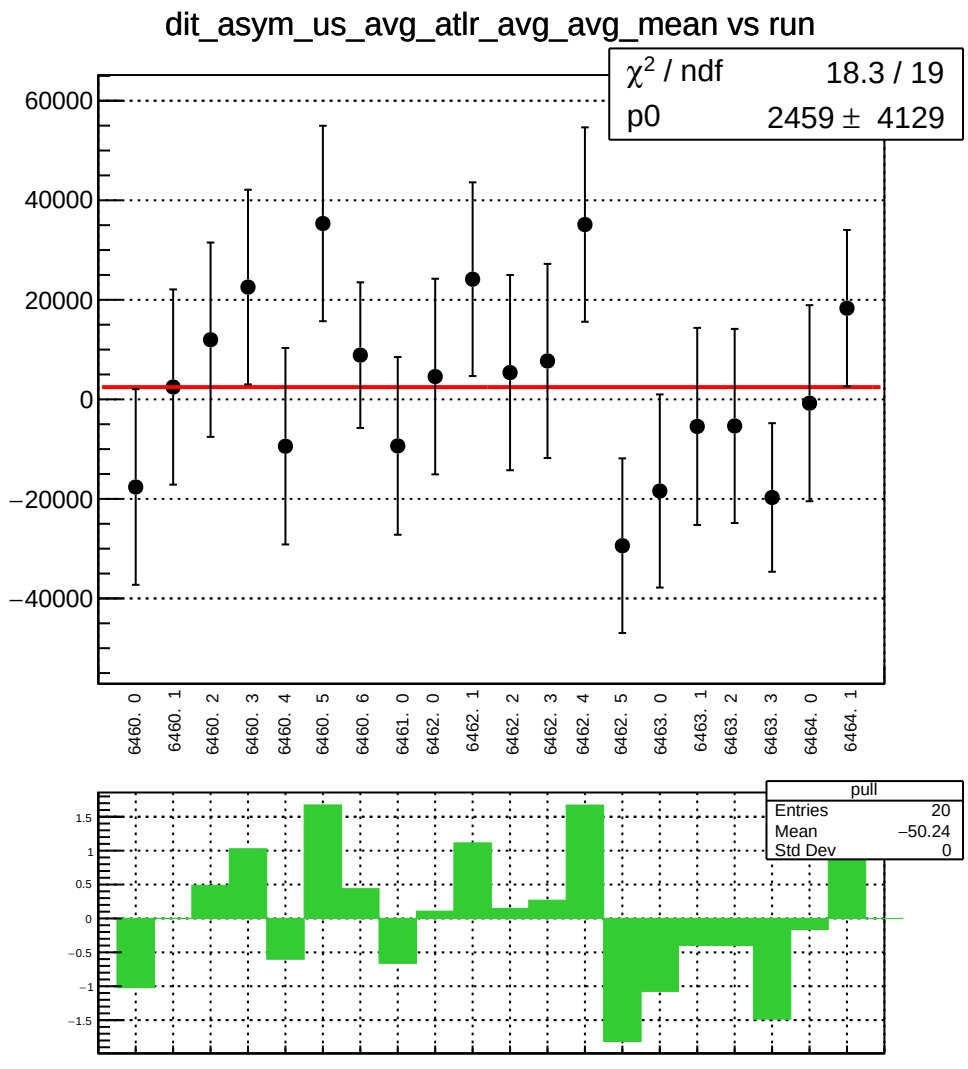

pull
Entries 20
Mean −39.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

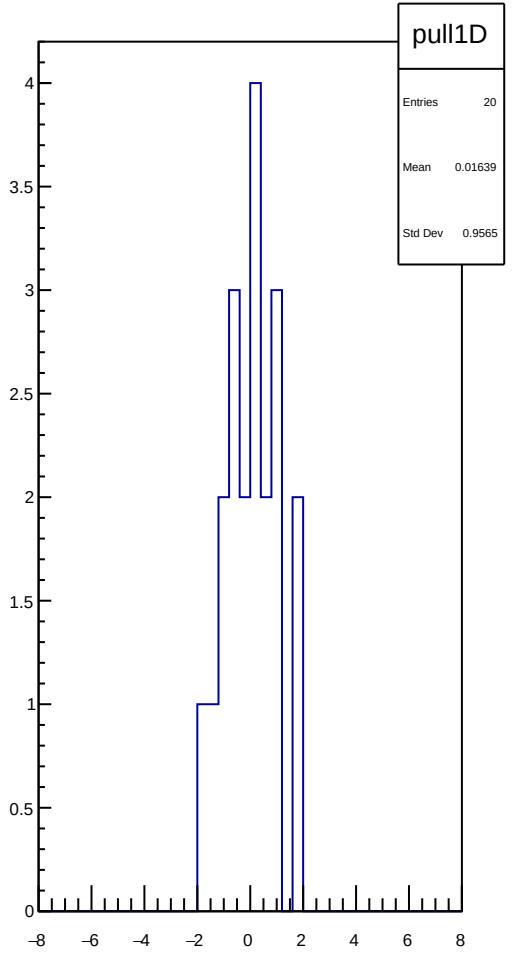

pull1D
Entries 20
Mean 0.0208
Std Dev 0.9708
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

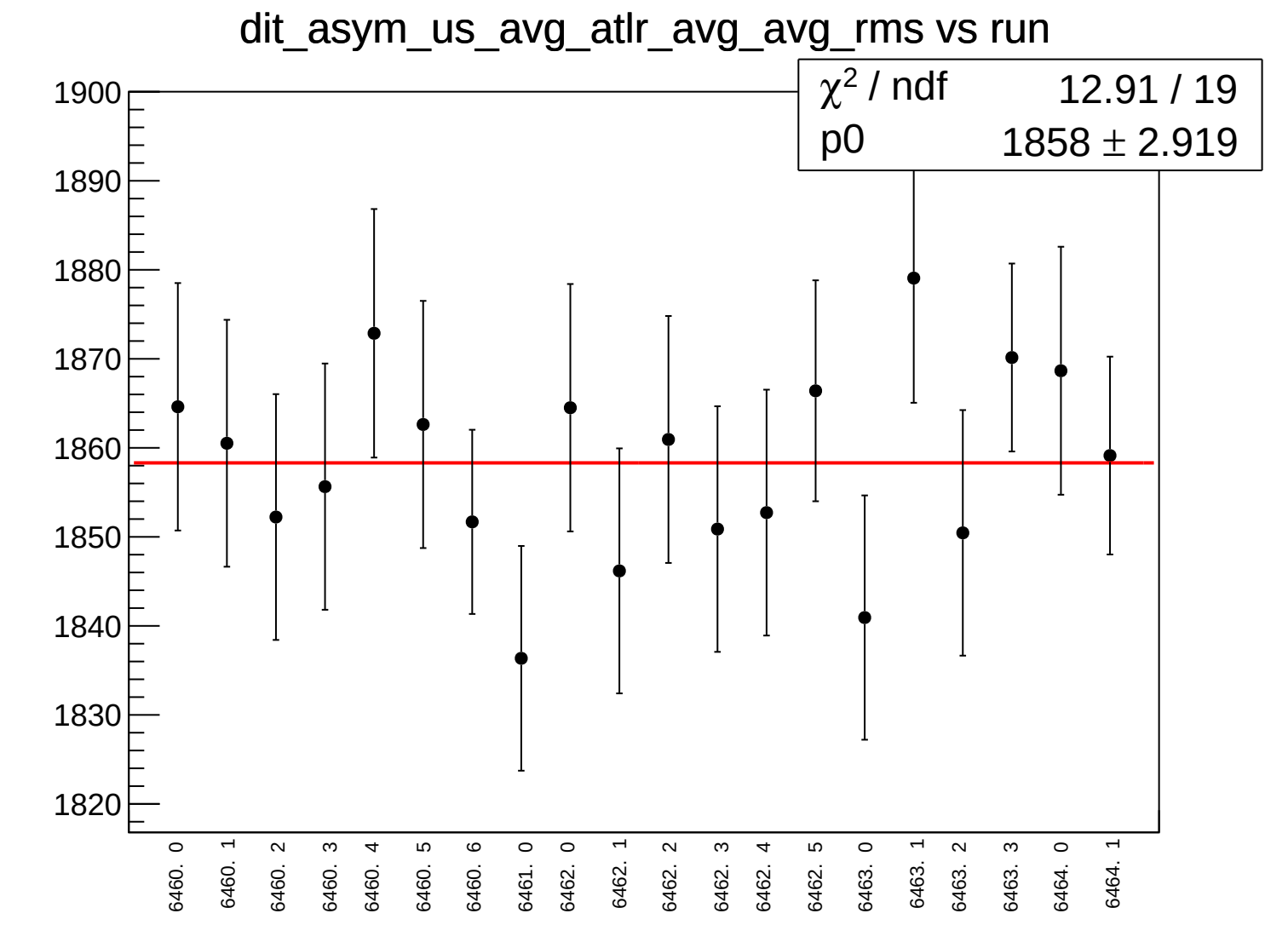

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 11.78 / 19
p0 1843 ± 2.895
1880
1870
1860
1850
1840
1830
1820
1810
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

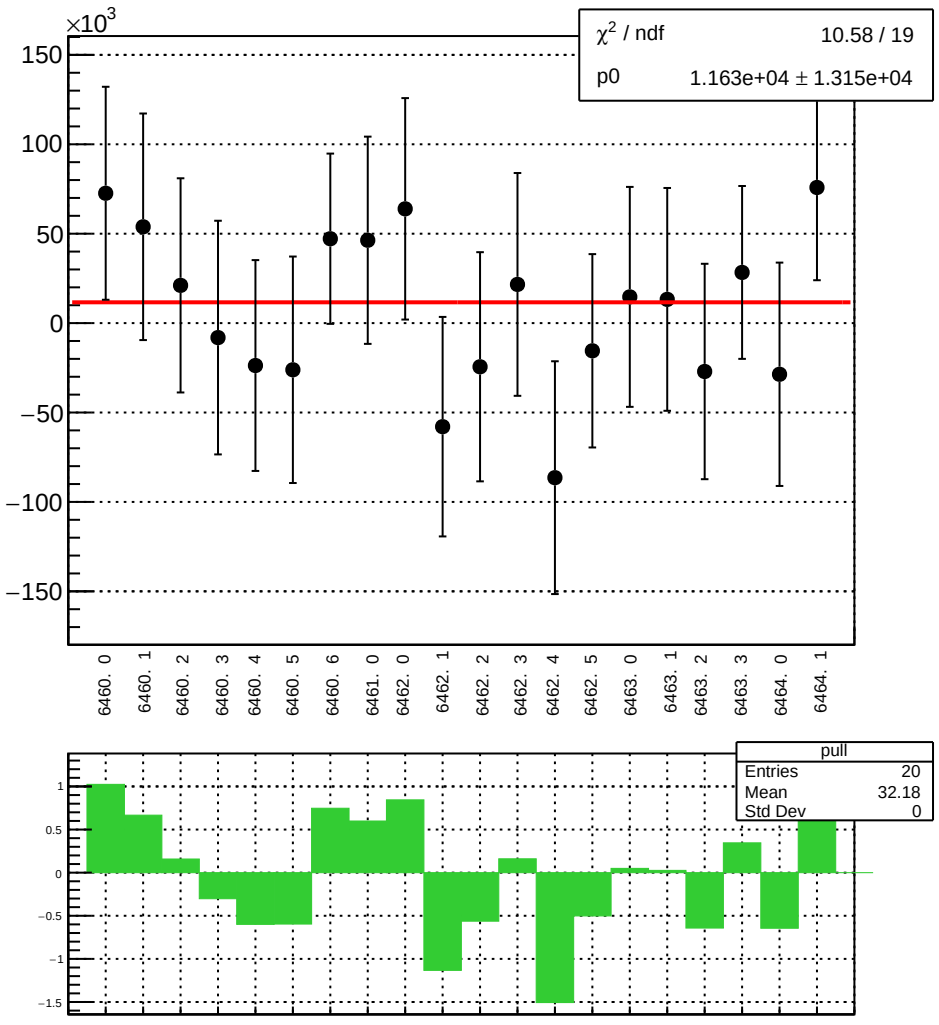

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 10.5 / 19
p0 1.19e+04 ± 1.305e+04
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.51
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0307
Std Dev 0.7238
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

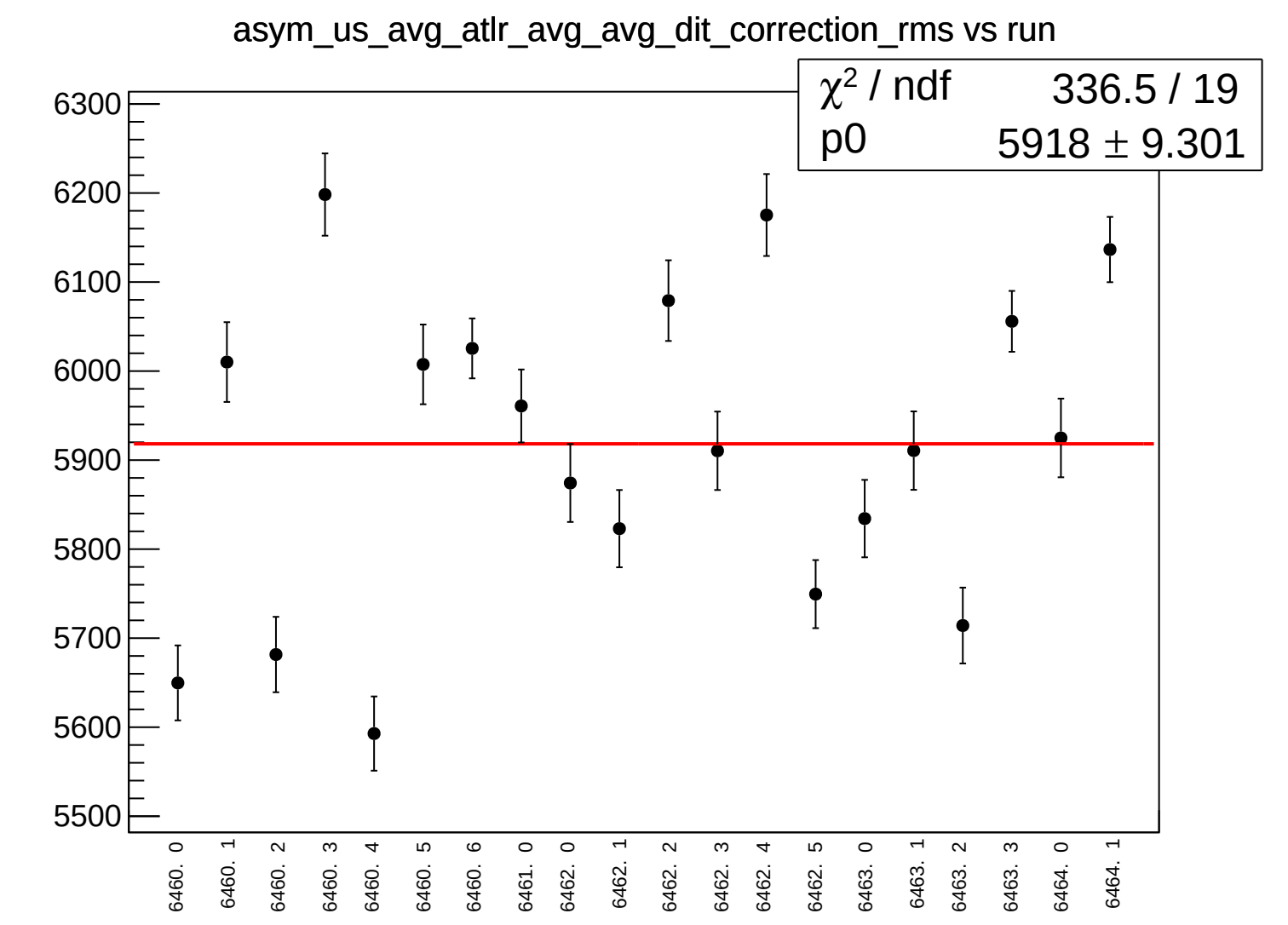

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 410.3 / 19
p0 5870 ± 9.226
6200
6100
6000
5900
5800
5700
5600
5500
5400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

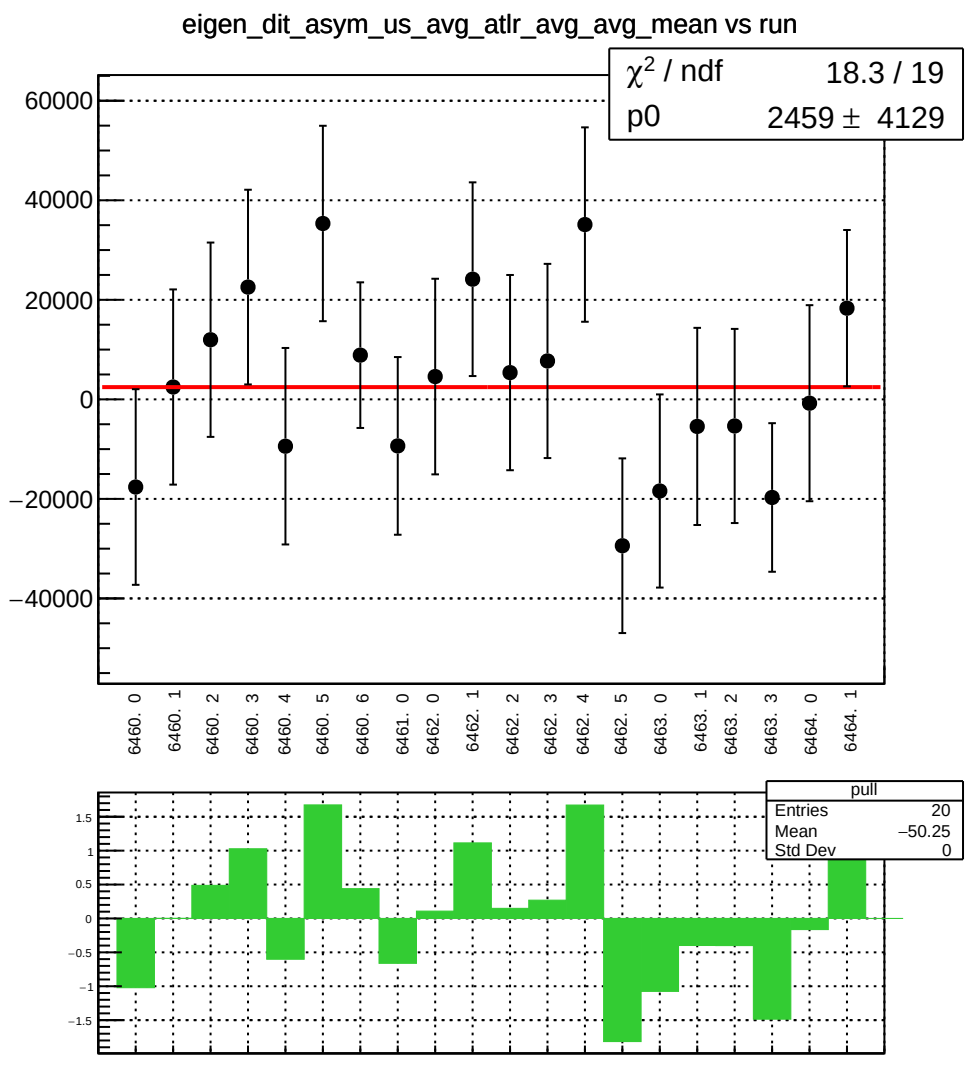

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 18.3 / 19
p0 2459 ± 4129
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

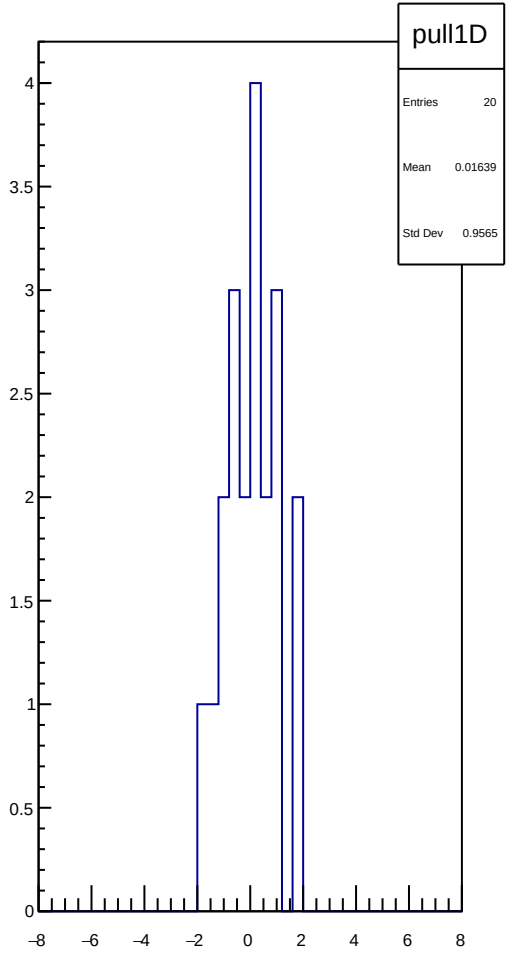

pull1D
Entries 20
Mean 0.01639
Std Dev 0.9565
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

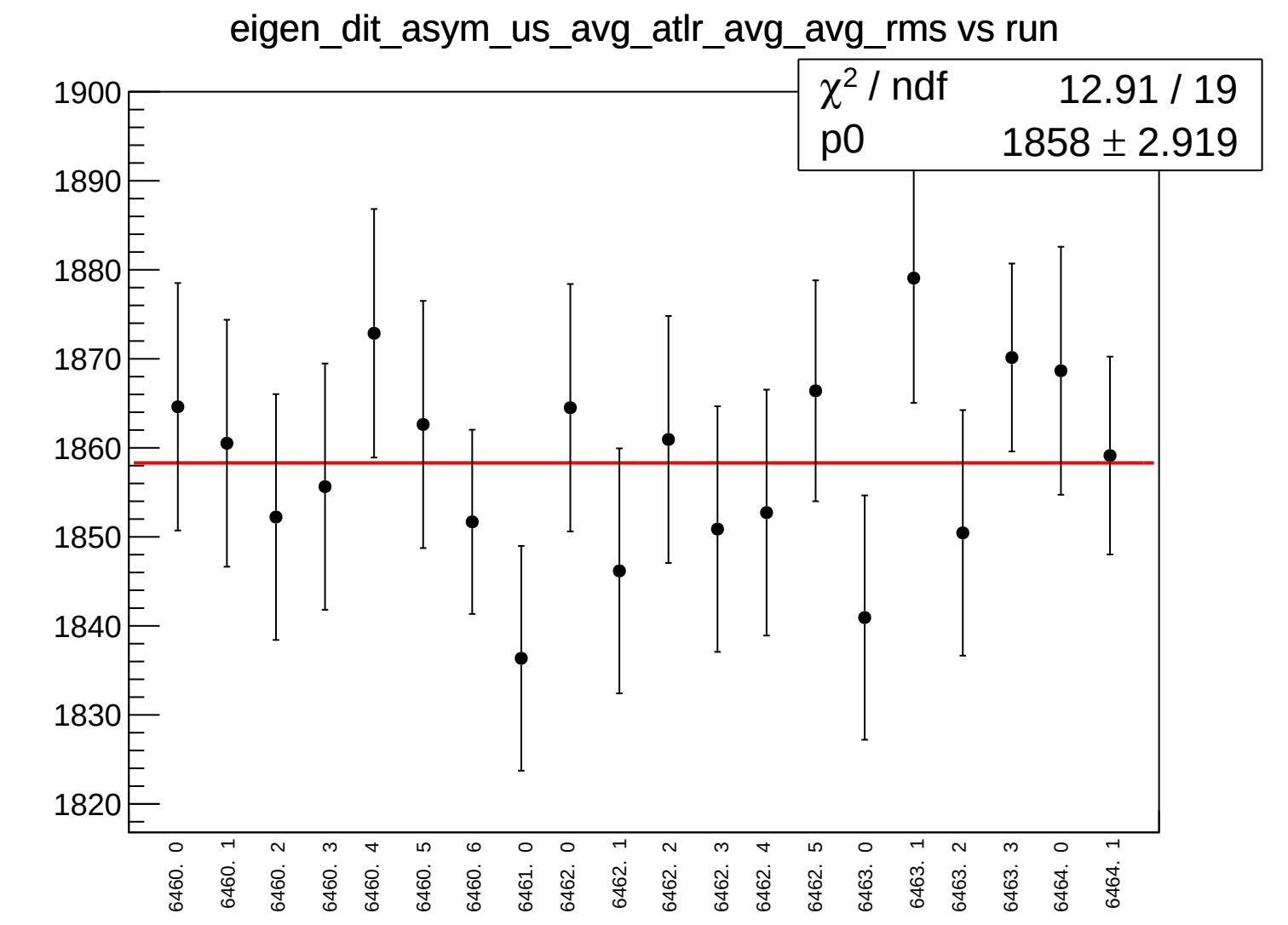

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 12.91 / 19
p0 1858 ± 2.919
1900
1890
1880
1870
1860
1850
1840
1830
1820
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

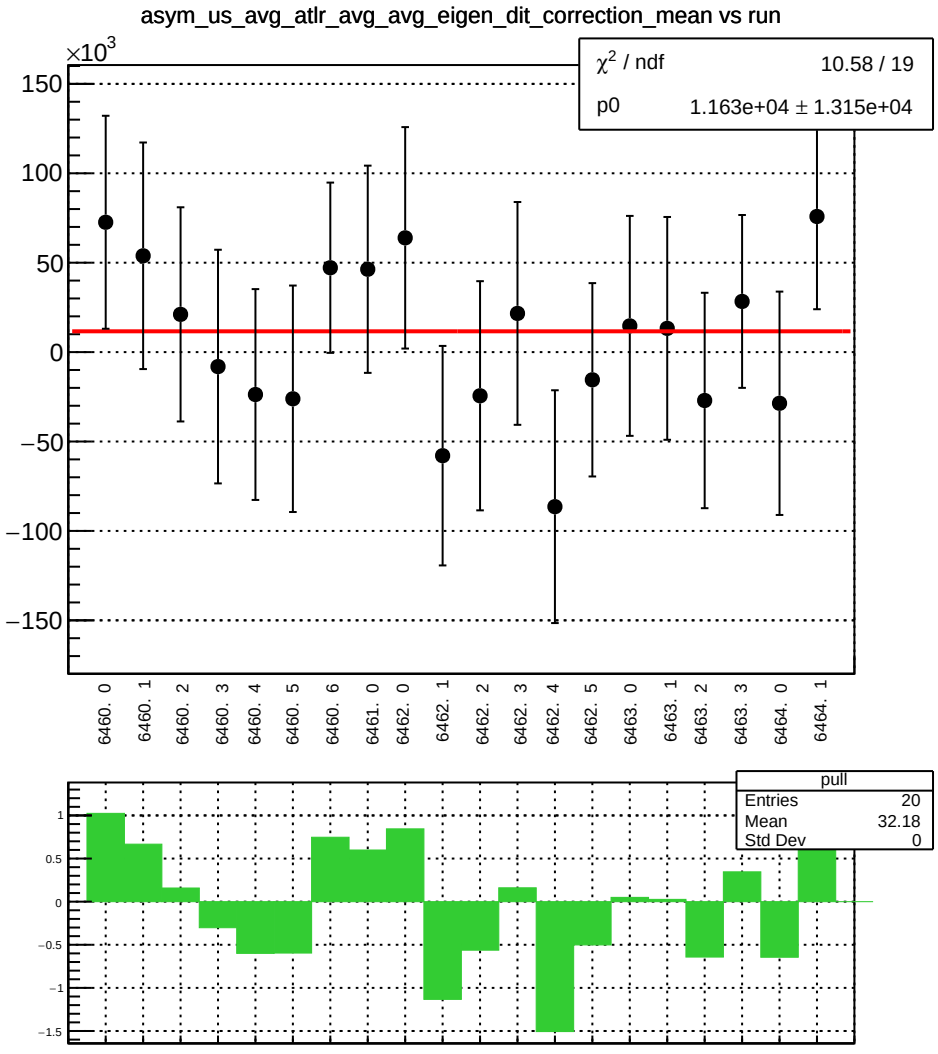

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 10.58 / 19
p0 1.163e+04 ± 1.315e+04
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03144
Std Dev 0.7268
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

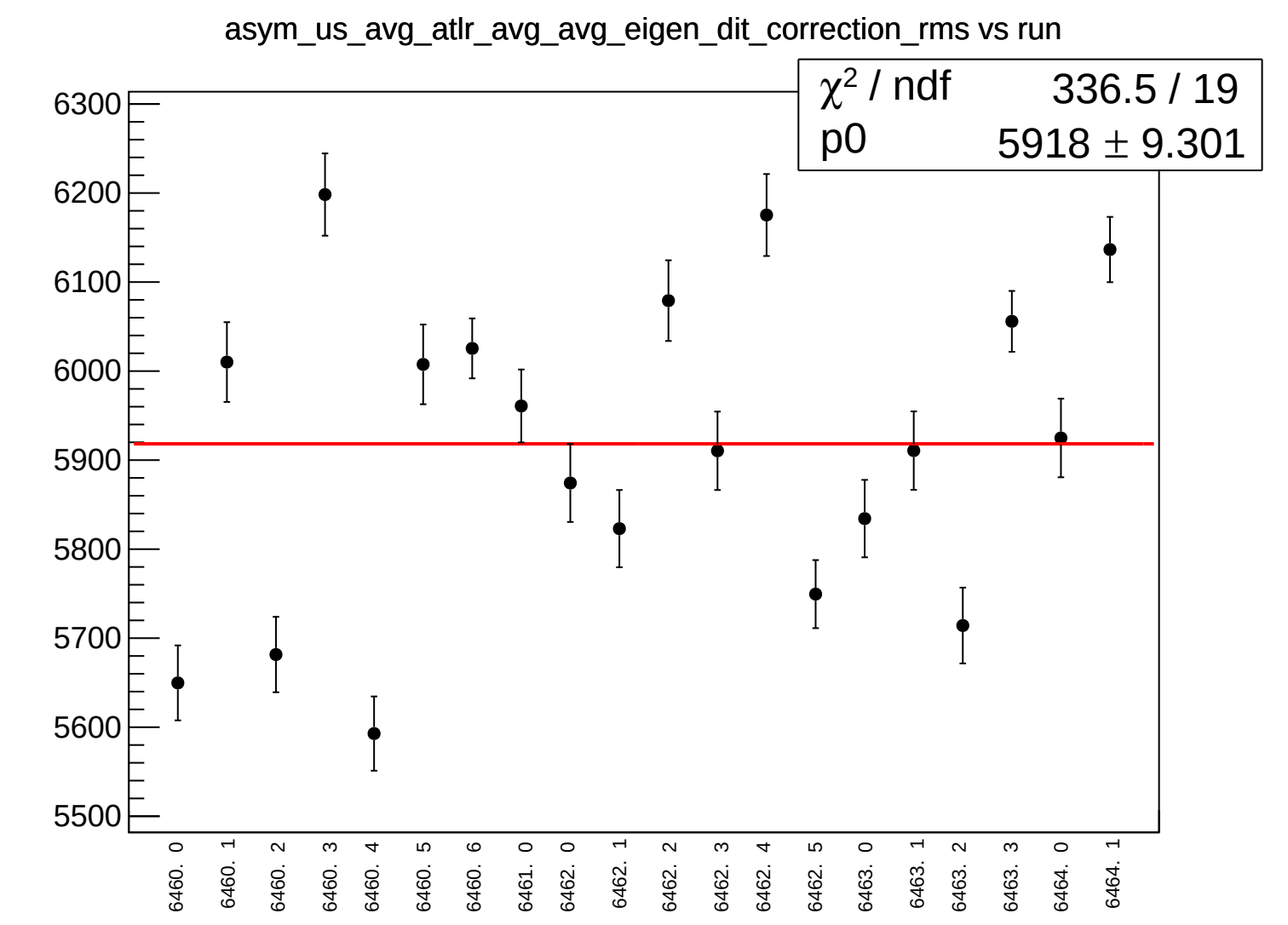

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 336.5 / 19
p0 5918 ± 9.301
6300
6200
6100
6000
5900
5800
5700
5600
5500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

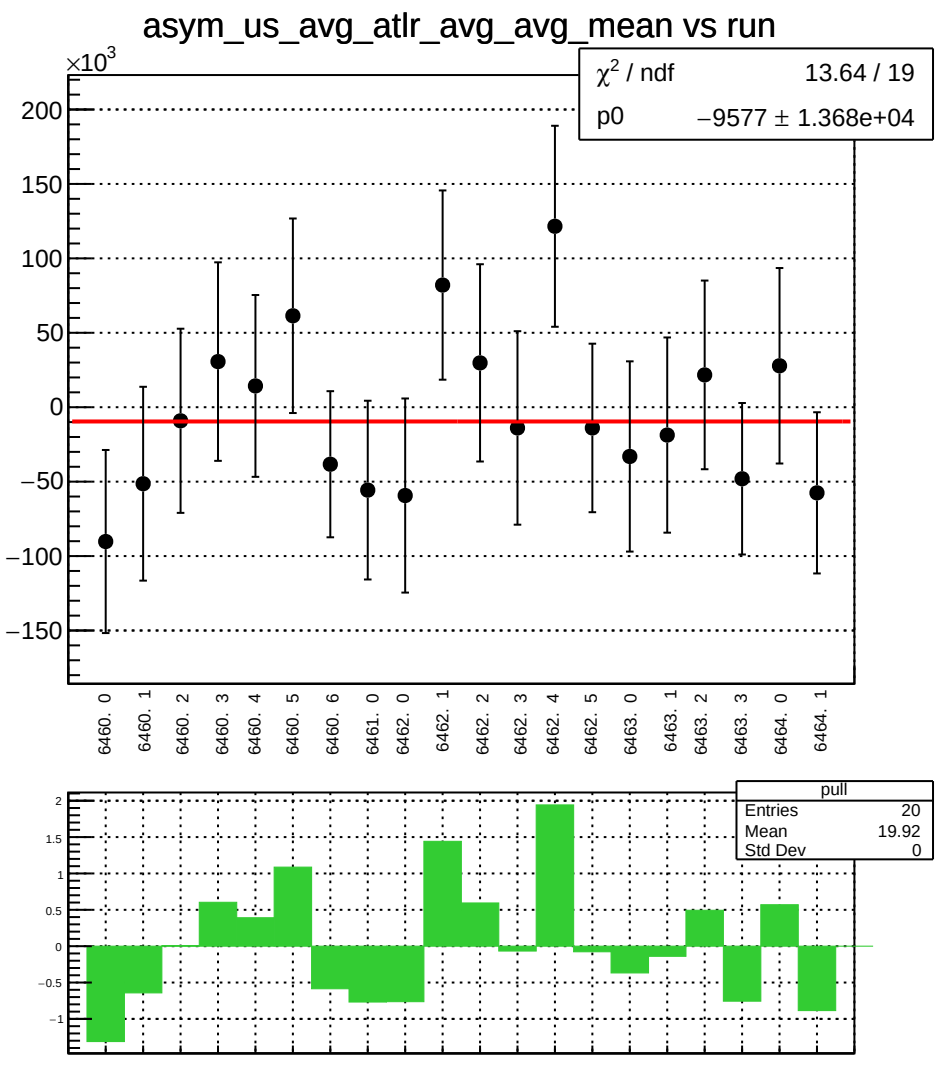

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 18.3 / 19
p0 2459 ± 4129
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

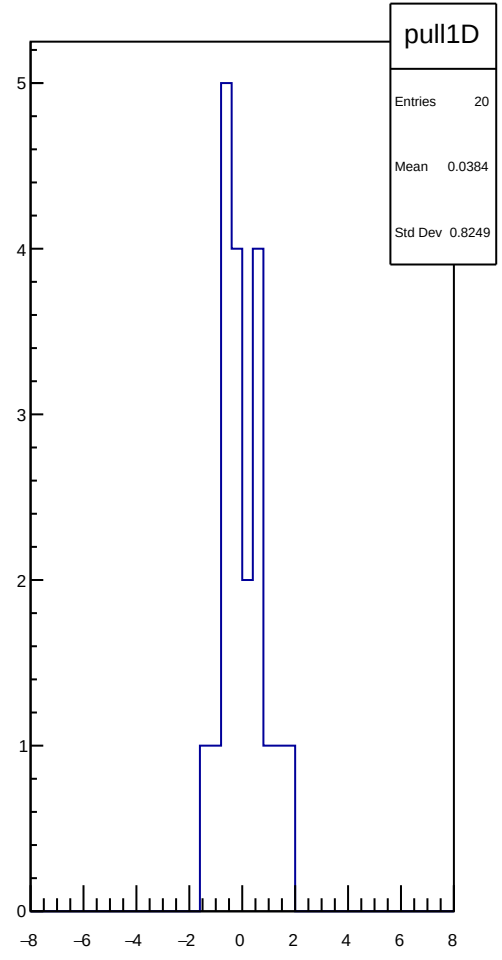

pull1D
Entries 20
Mean 0.01639
Std Dev 0.9565
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

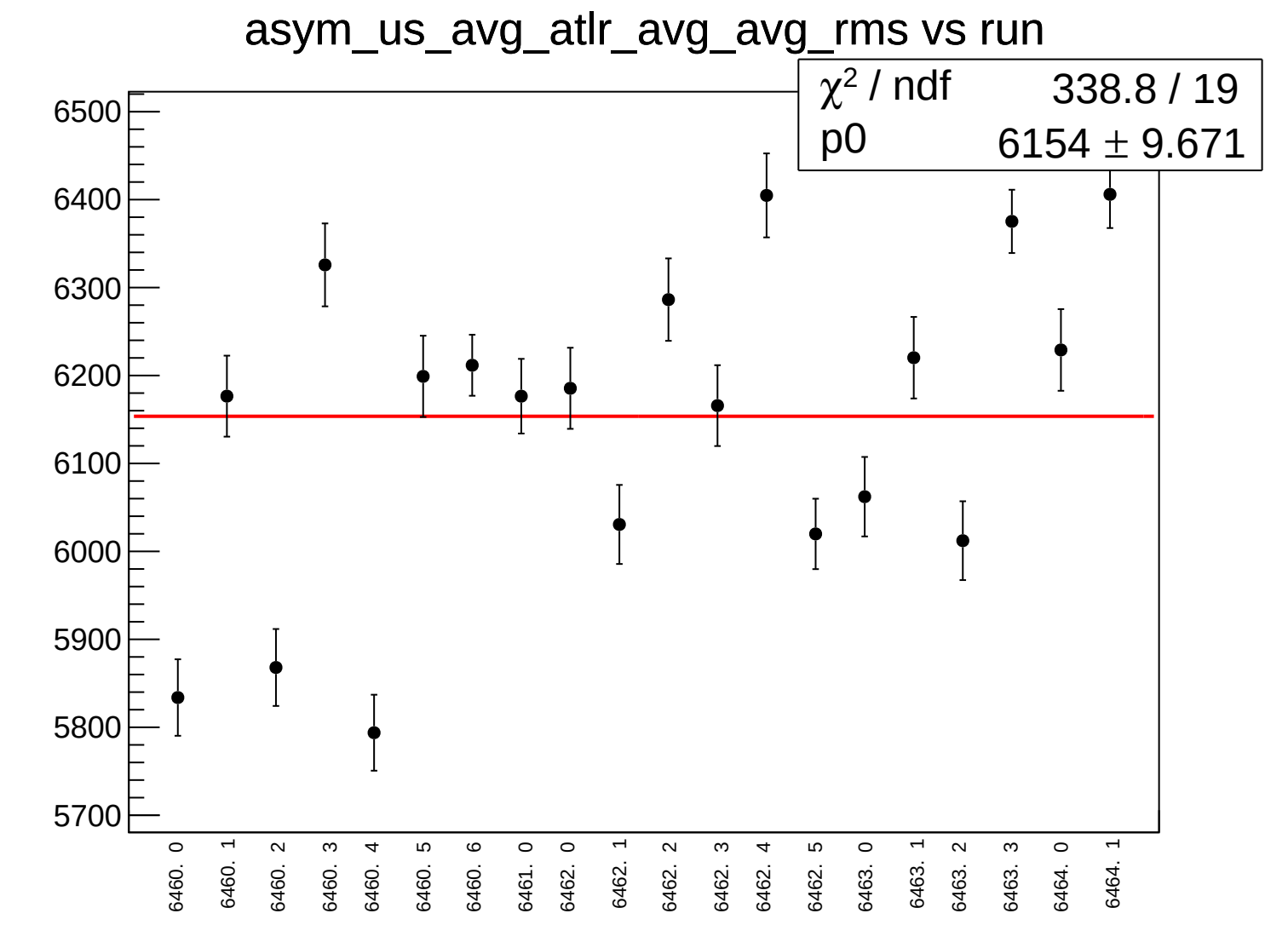

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 12.91 / 19
p0 1858 ± 2.919
1900
1890
1880
1870
1860
1850
1840
1830
1820
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

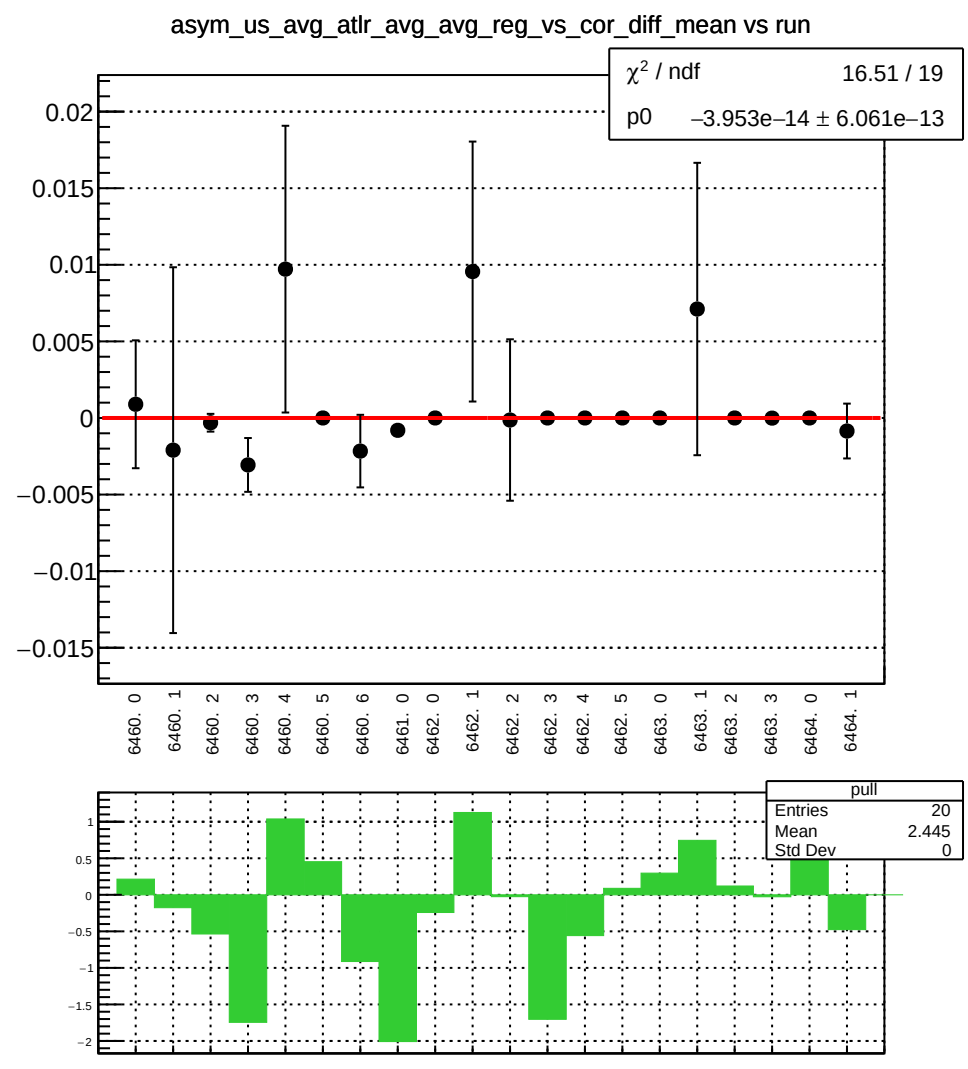

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 10.58 / 19
p0 1.163e+04 ± 1.315e+04
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03144
Std Dev 0.7268
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

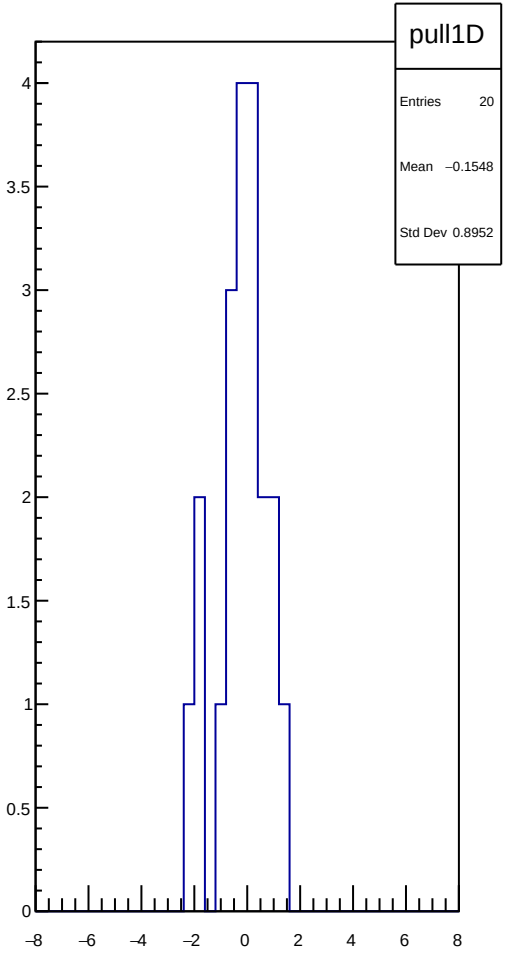

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 336.5 / 19
p0 5918 ± 9.301
6300
6200
6100
6000
5900
5800
5700
5600
5500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

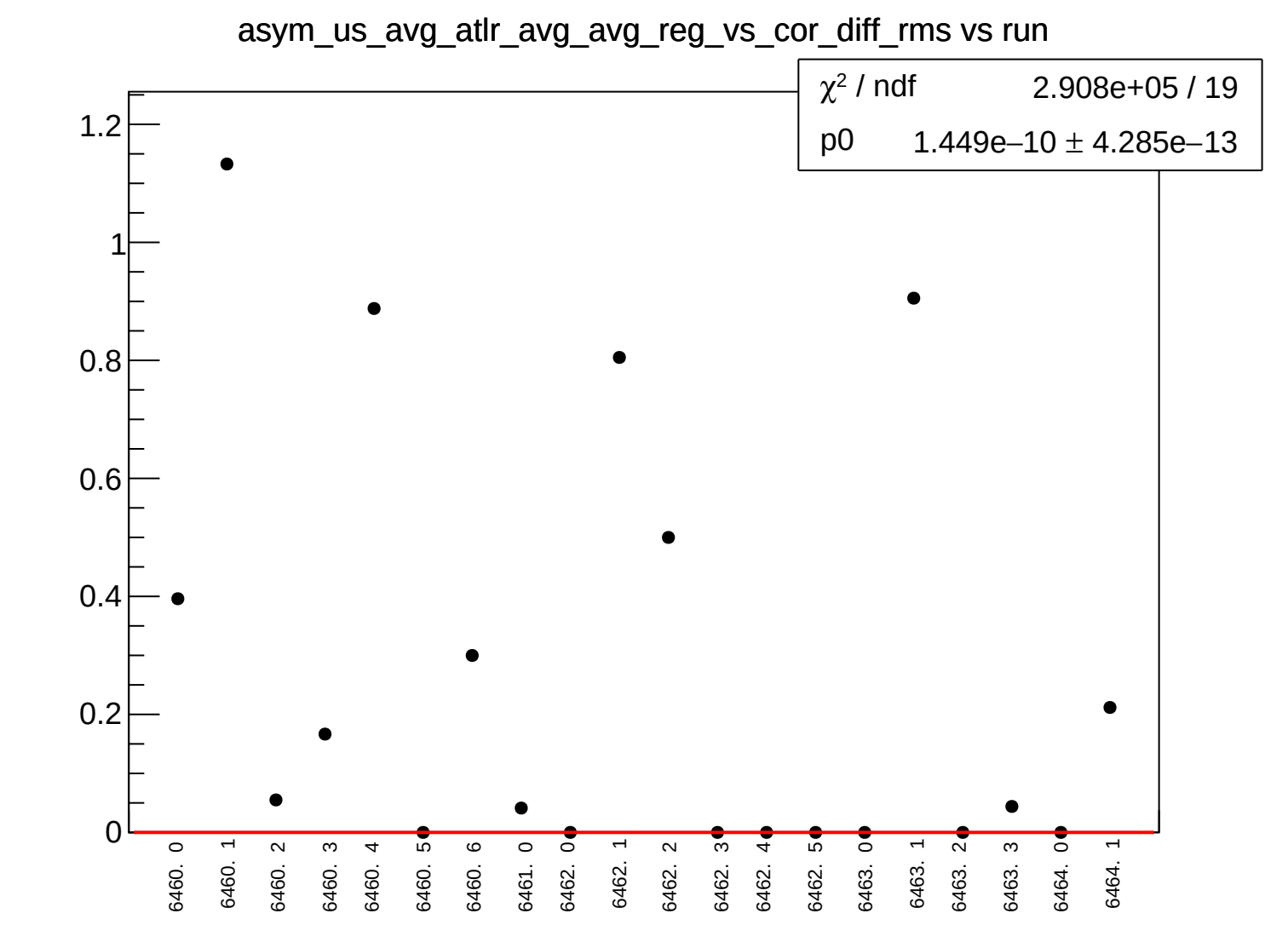

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 13.64 / 19
p0 −9577 ± 1.368e+04
200
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

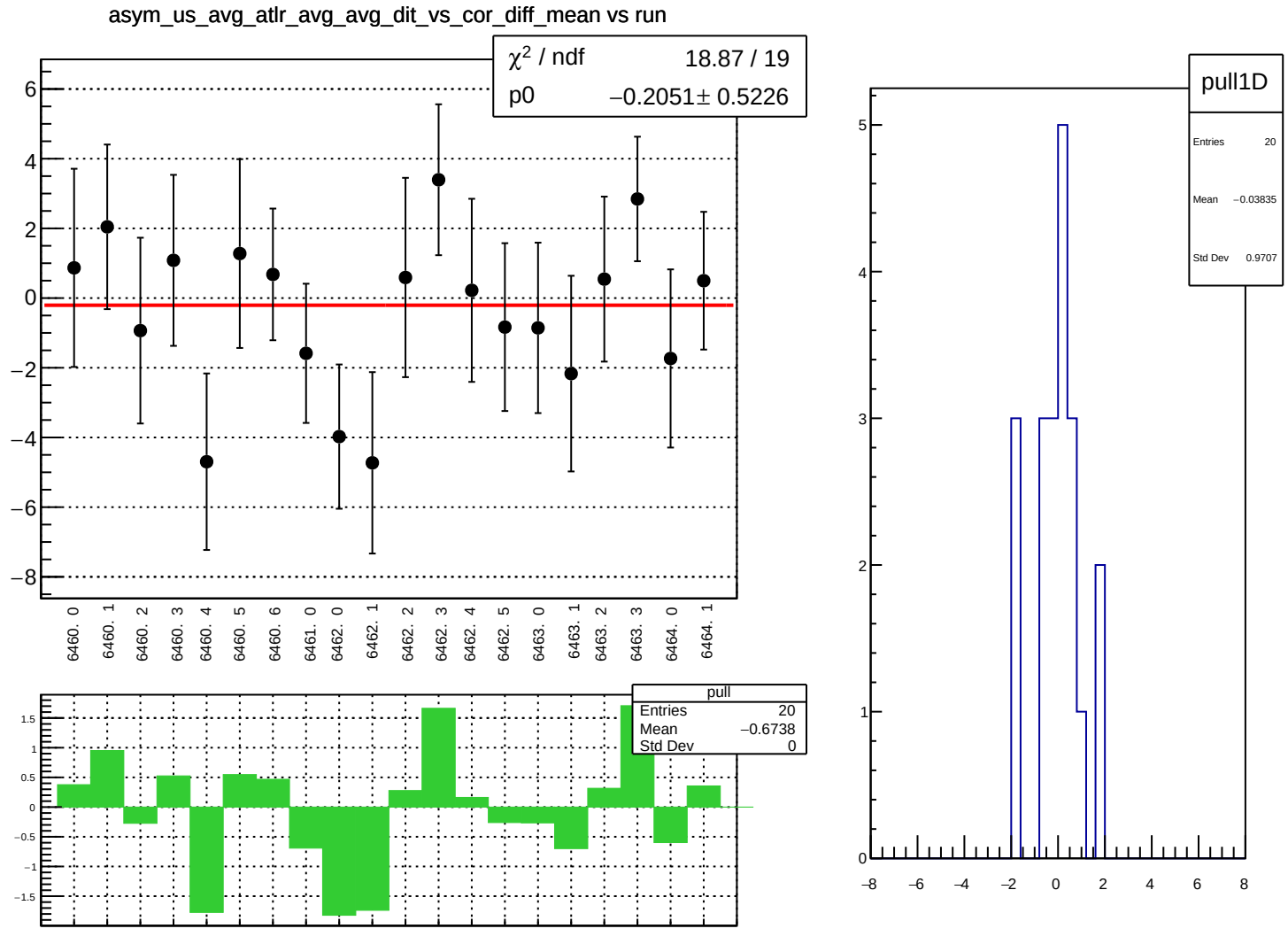

pull1D
Entries 20
Mean 0.0384
Std Dev 0.8249
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

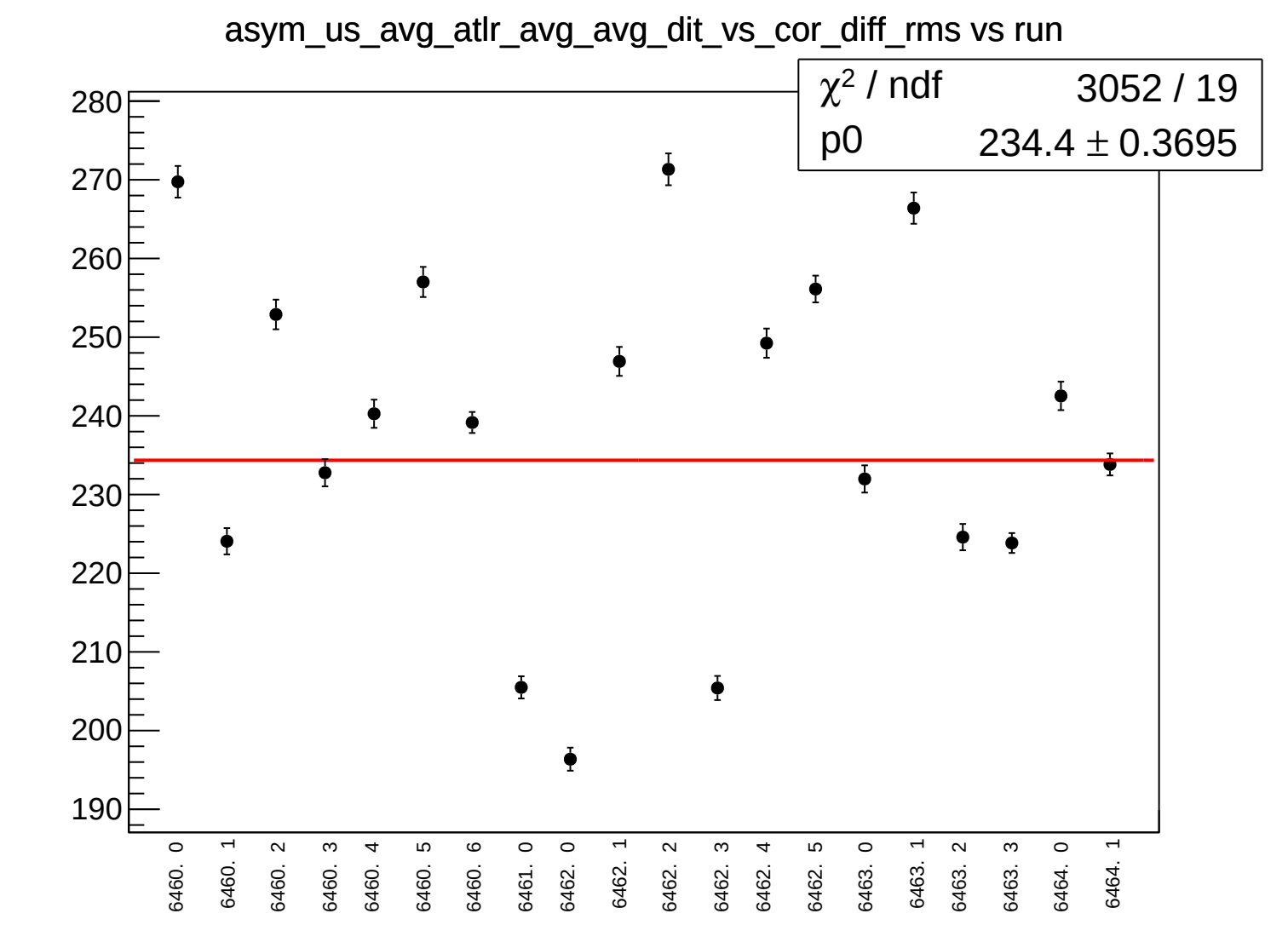

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 338.8 / 19
p0 6154 ± 9.671
6500
6400
6300
6200
6100
6000
5900
5800
5700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

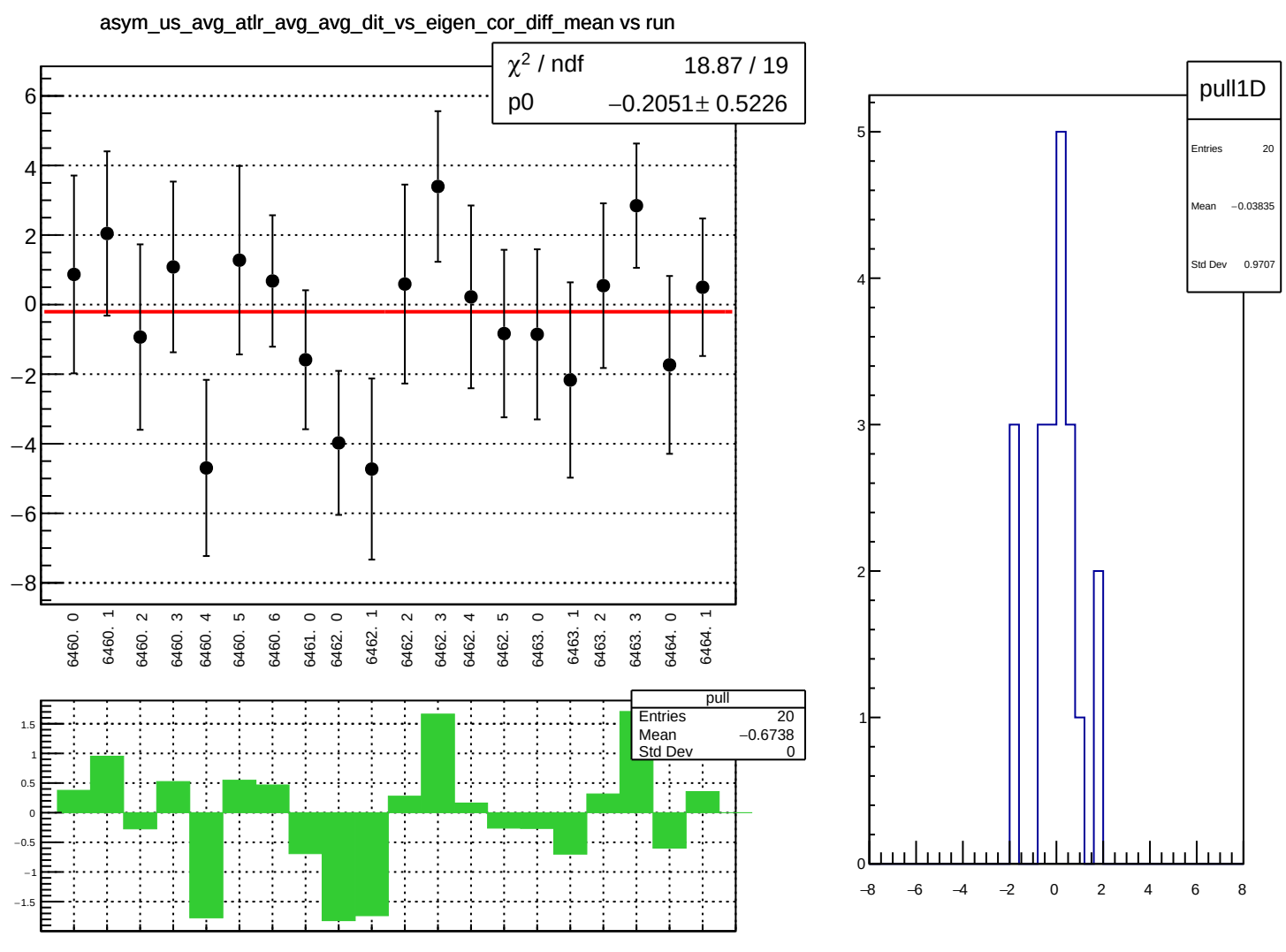

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 16.51 / 19
p0 −3.953e−14 ± 6.061e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.445
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

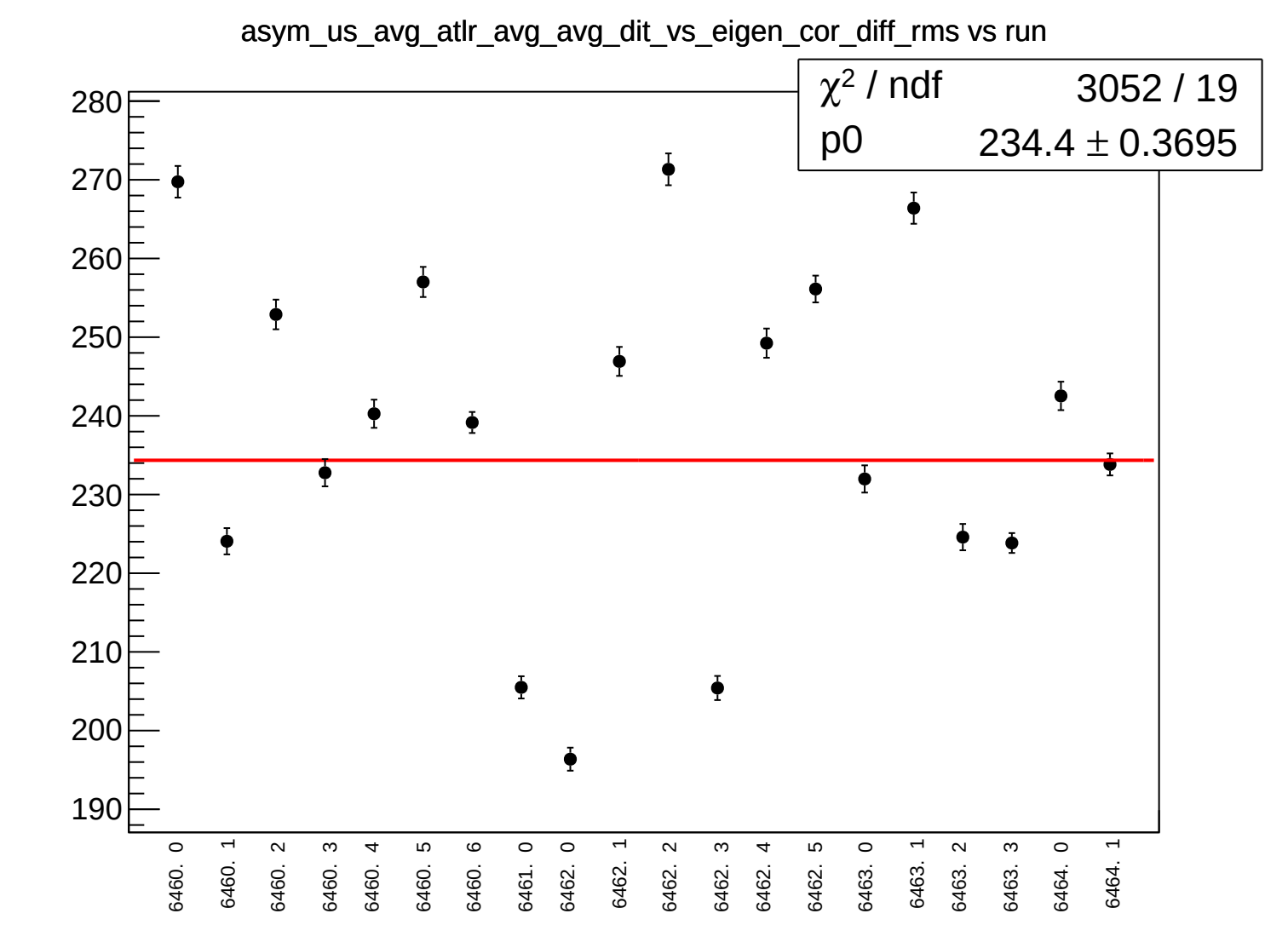

pull1D
Entries 20
Mean −0.1548
Std Dev 0.8952
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

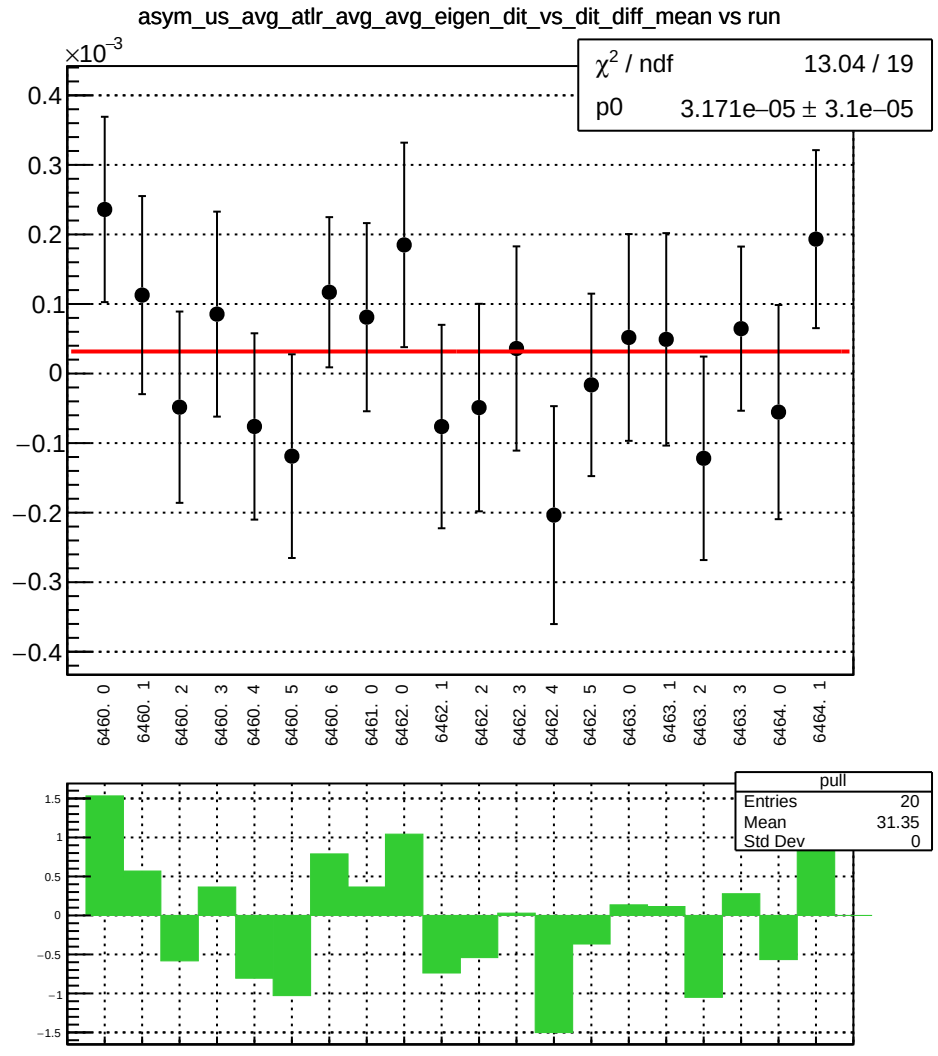

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.908e+05 / 19
p0 1.449e−10 ± 4.285e−13
1.2
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

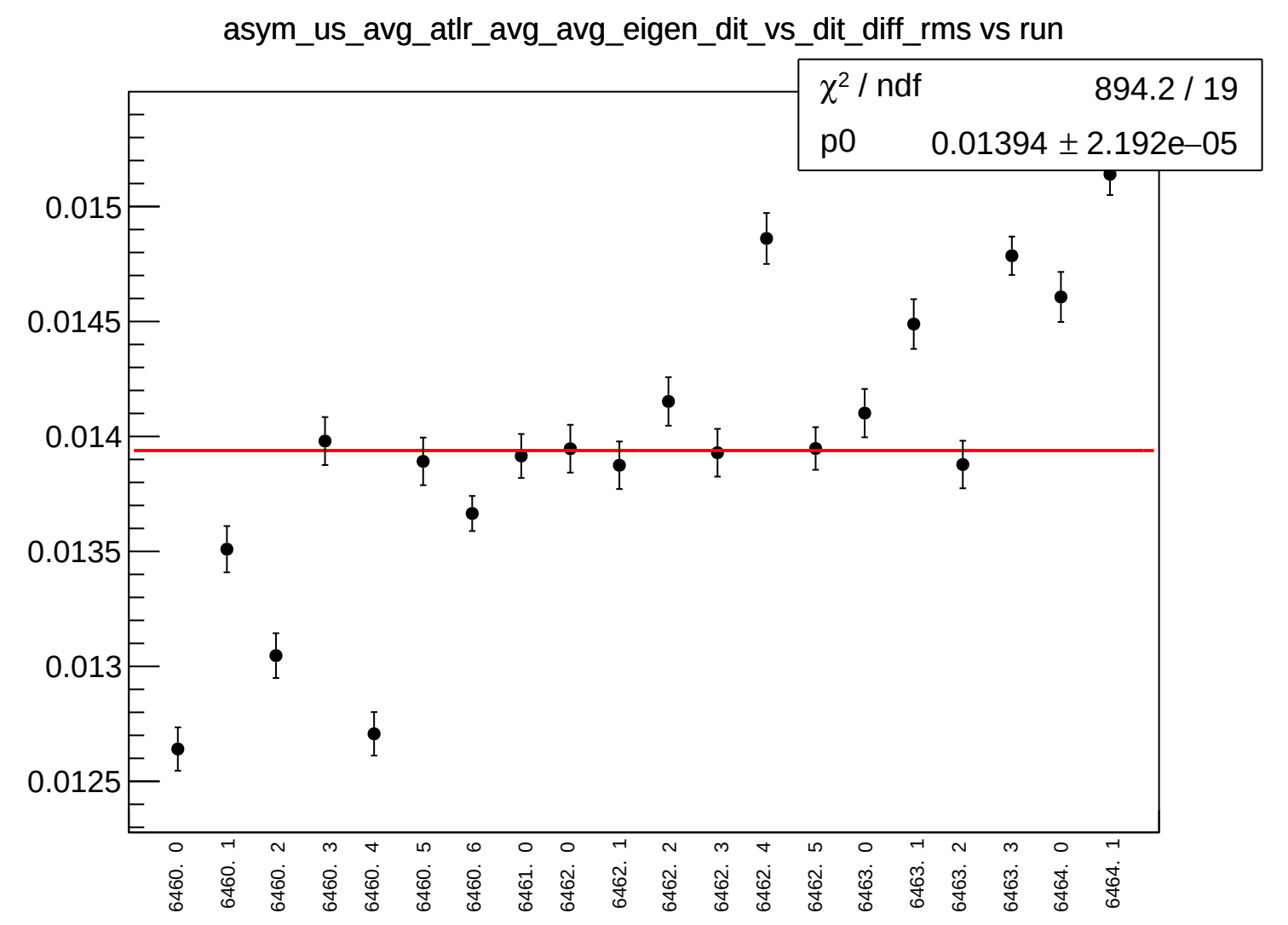

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 18.87 / 19
p0 −0.2051± 0.5226
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.6738
Std Dev 0
pull1D
Entries 20
Mean −0.03835
Std Dev 0.9707

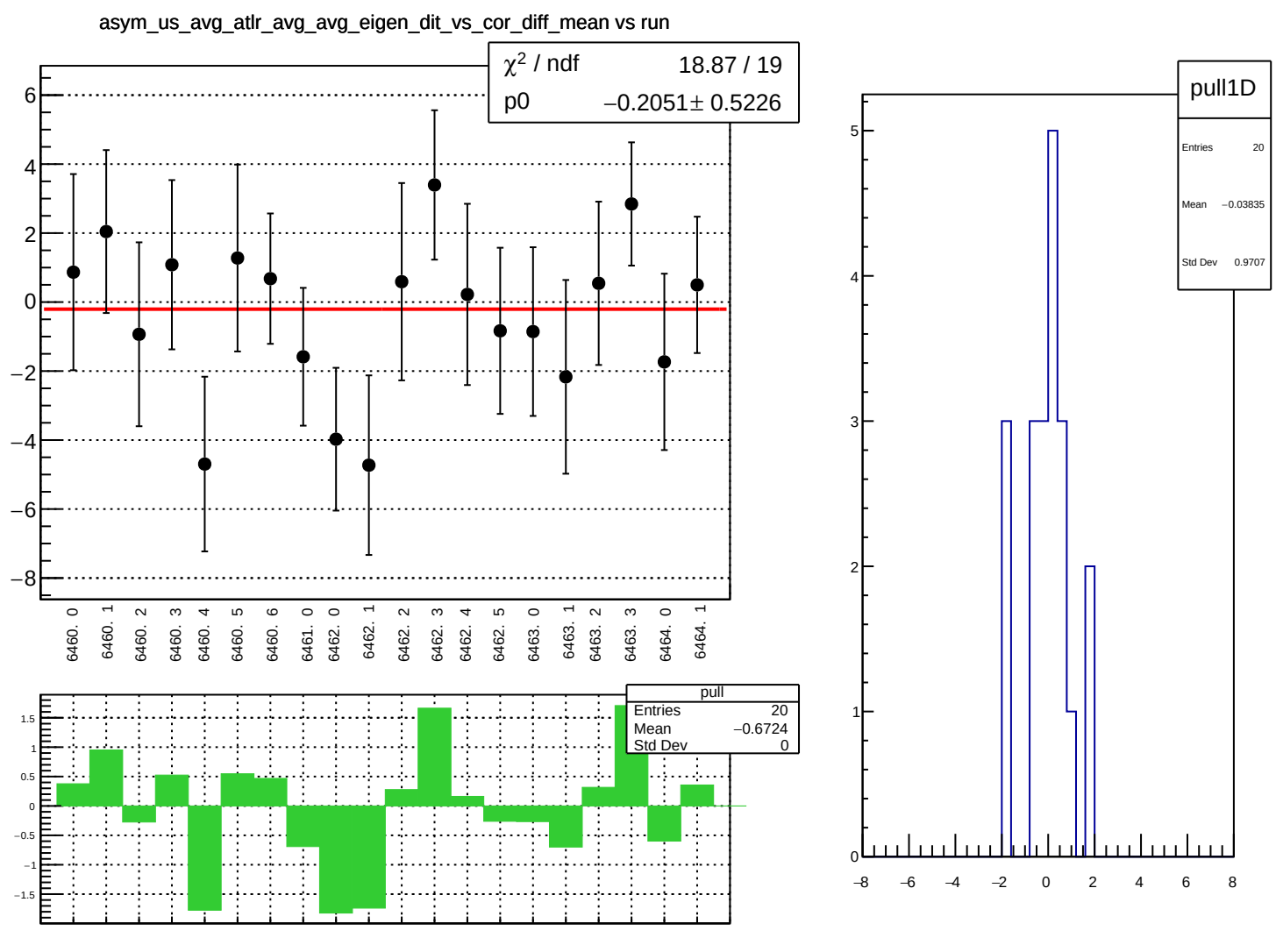

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3052 / 19
p0 234.4 ± 0.3695
280
270
260
250
240
230
220
210
200
190
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

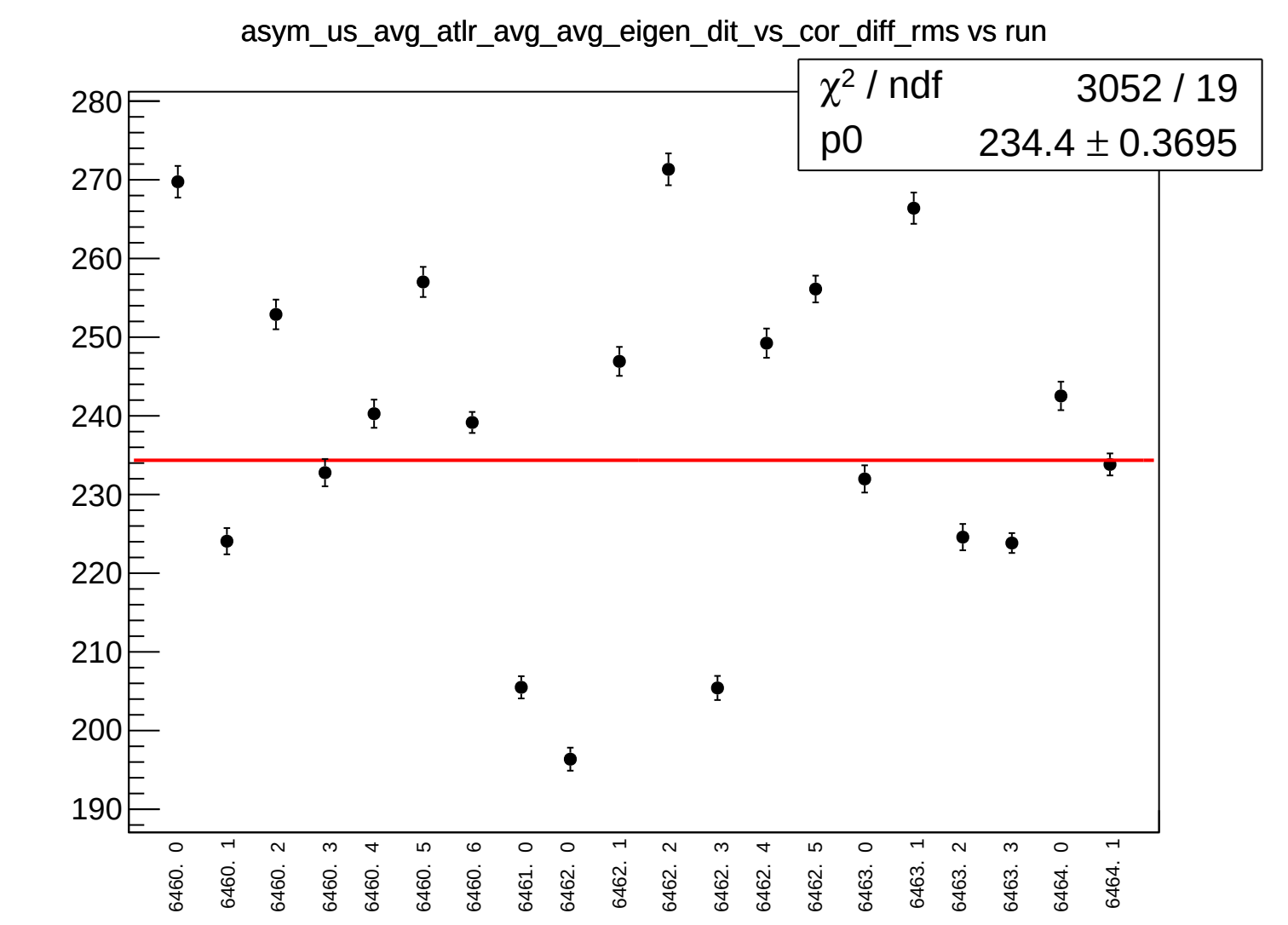

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.87 / 19
p0 −0.2051± 0.5226
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.6738
Std Dev 0
pull1D
Entries 20
Mean −0.03835
Std Dev 0.9707

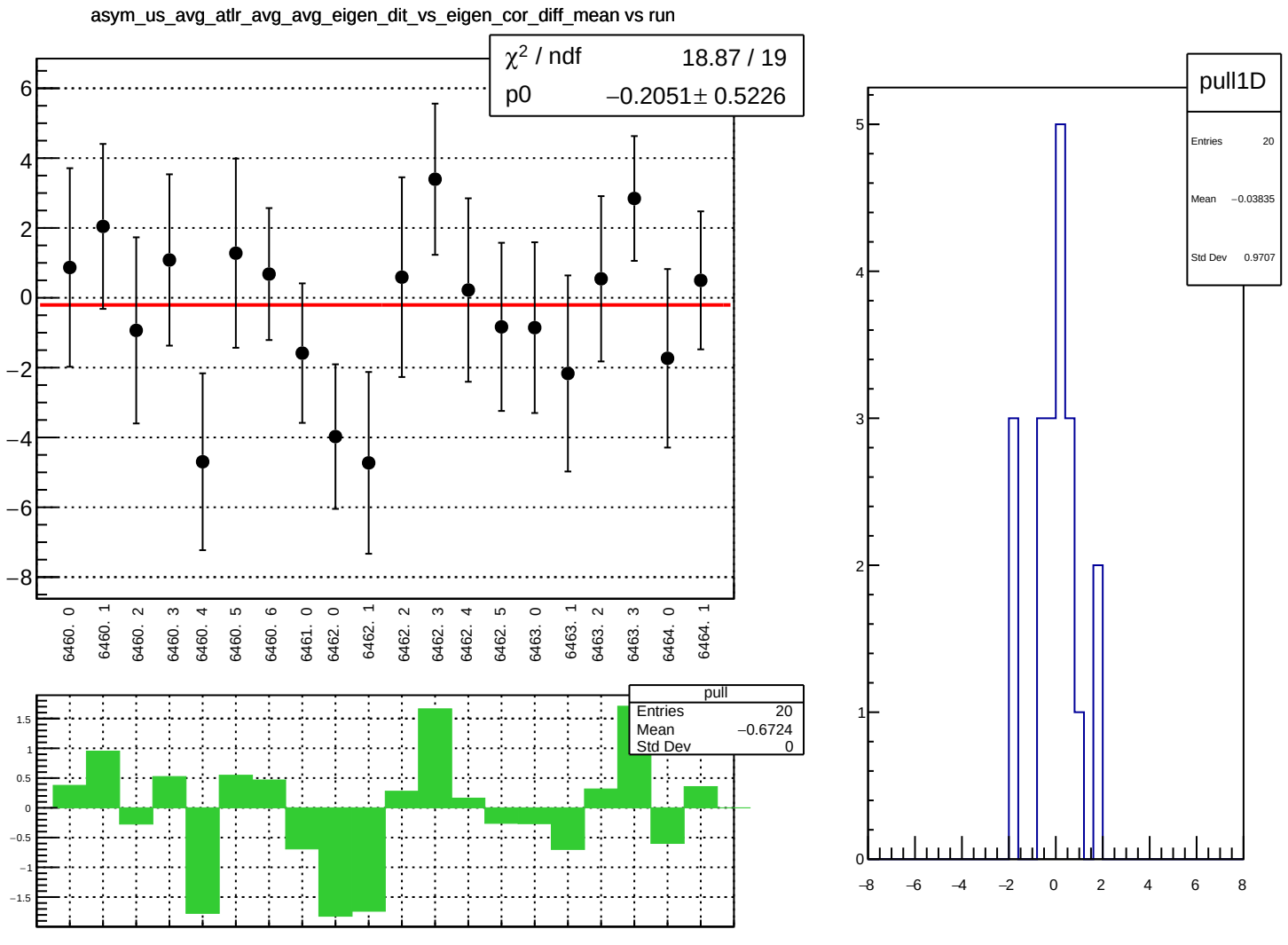

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3052 / 19
p0 234.4 ± 0.3695
280
270
260
250
240
230
220
210
200
190
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

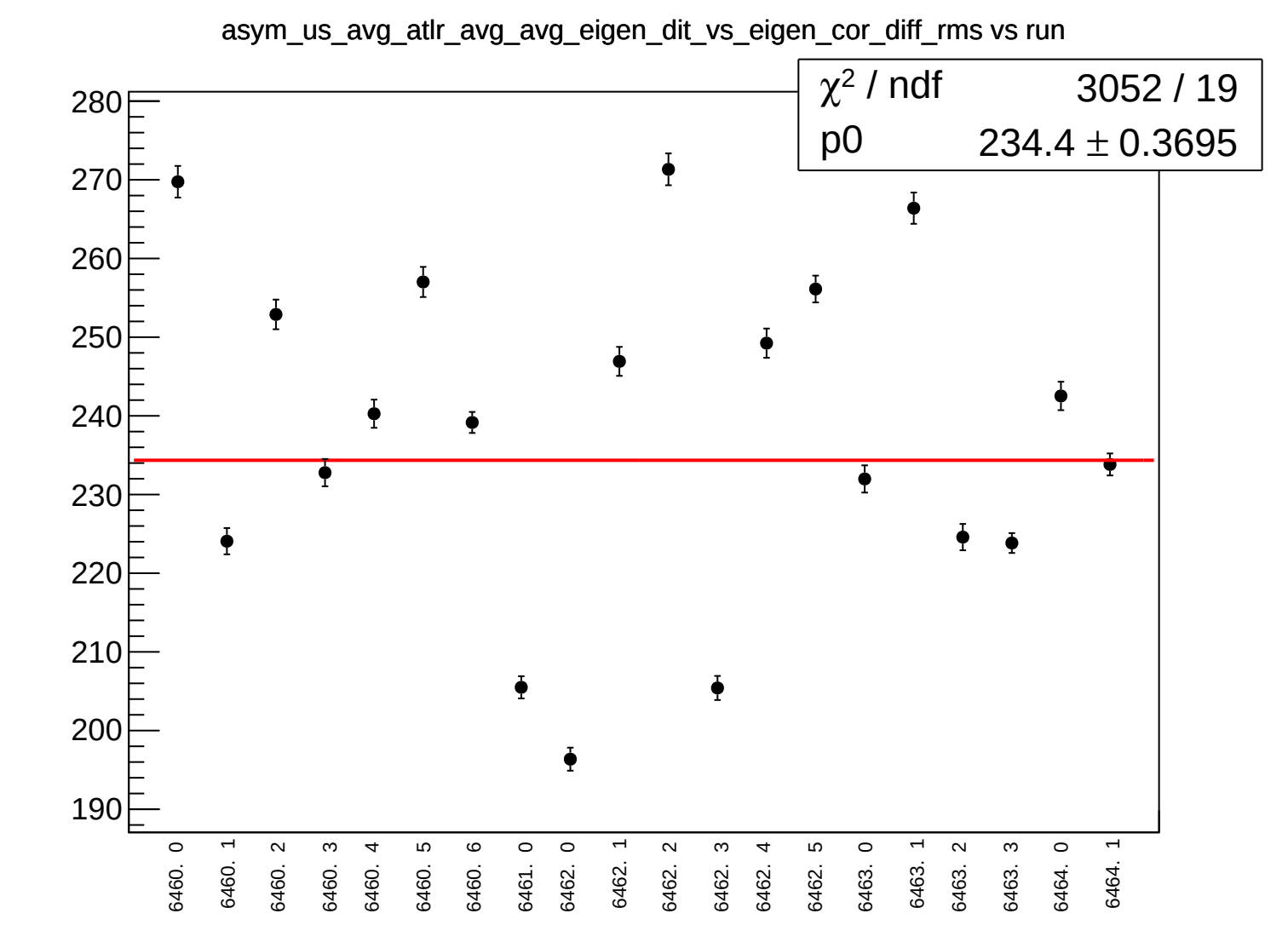

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 13.04 / 19
p0 3.171e−05 ± 3.1e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03465
Std Dev 0.8068
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

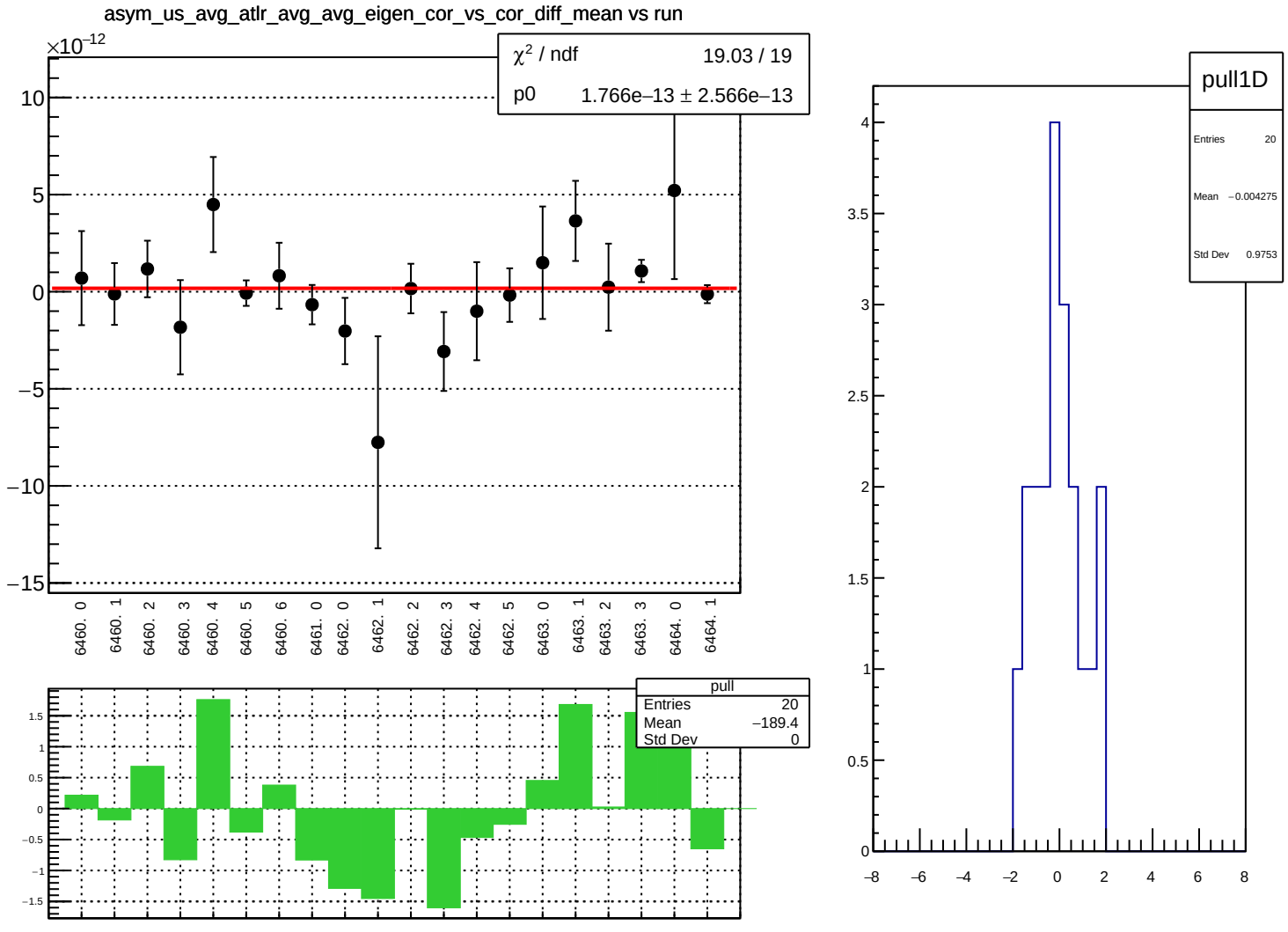

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 894.2 / 19
p0 0.01394 ± 2.192e−05
0.015
0.0145
0.014
0.0135
0.013
0.0125
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

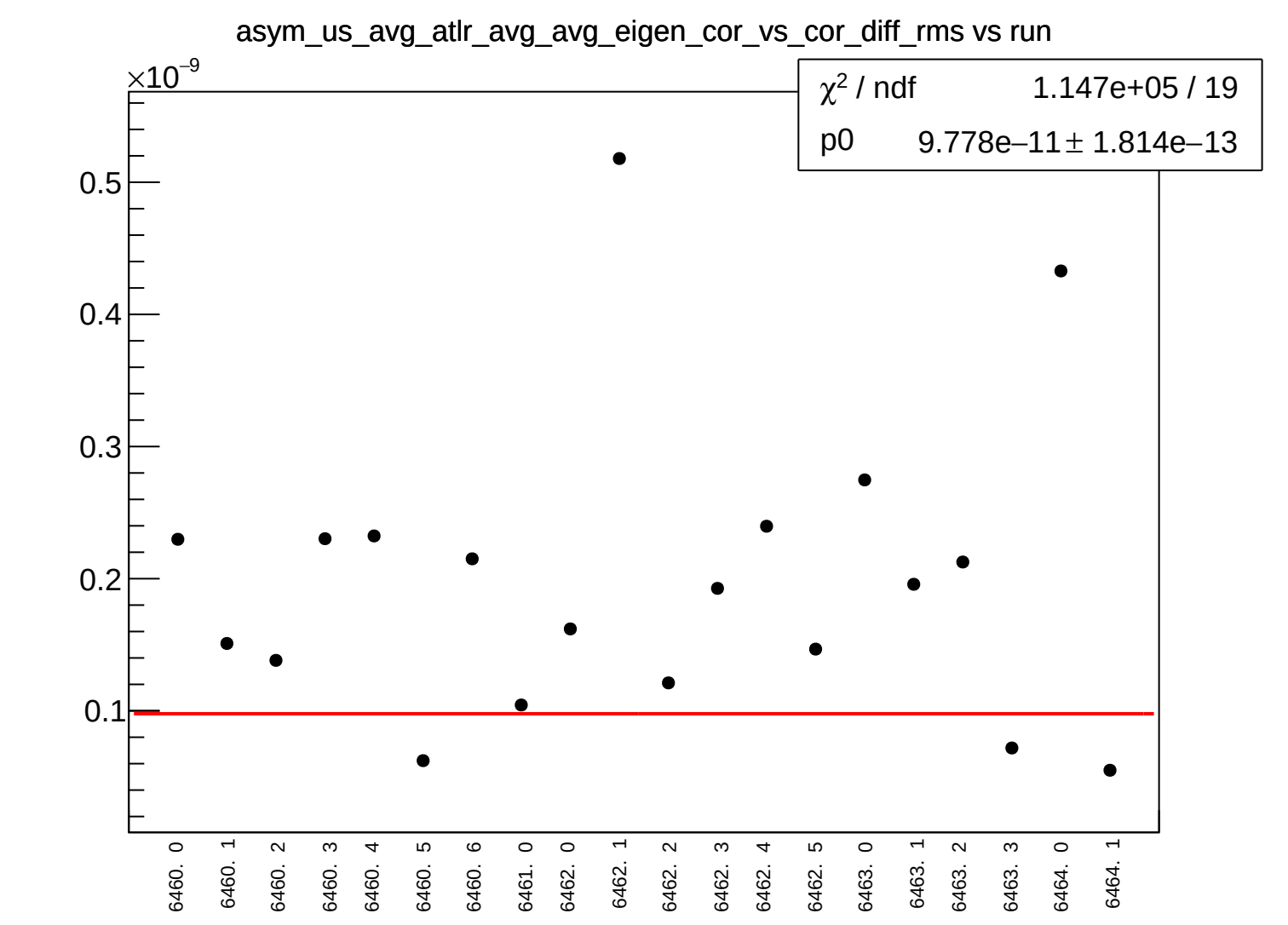

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.87 / 19
p0 −0.2051± 0.5226
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.6724
Std Dev 0
pull1D
Entries 20
Mean −0.03835
Std Dev 0.9707

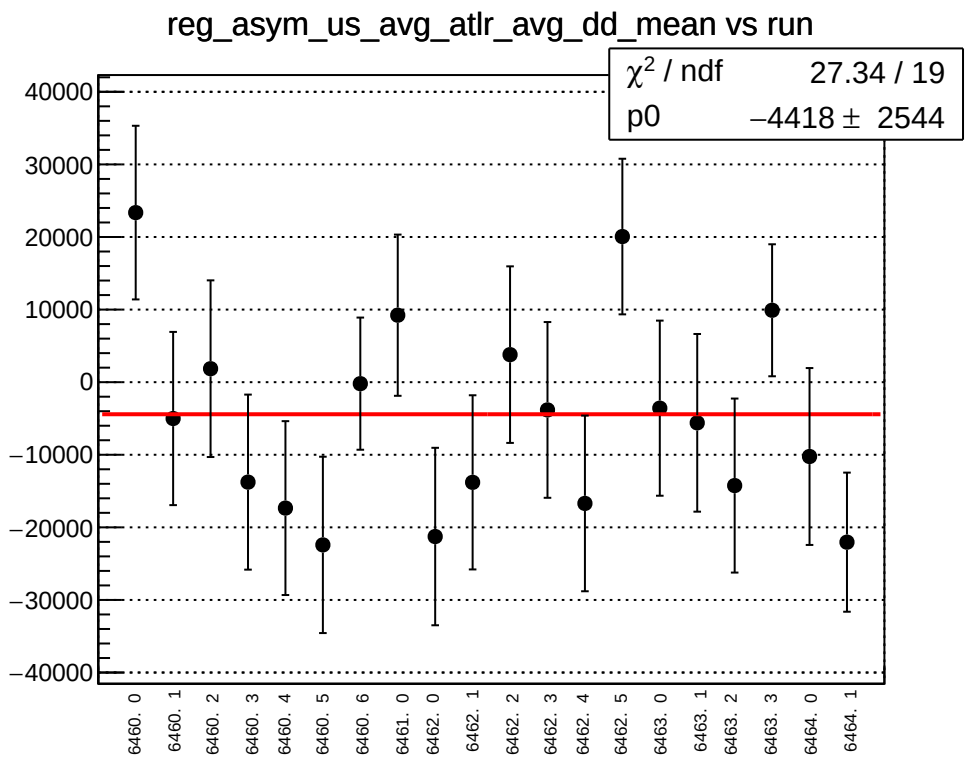

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3052 / 19
p0 234.4 ± 0.3695
280
270
260
250
240
230
220
210
200
190
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

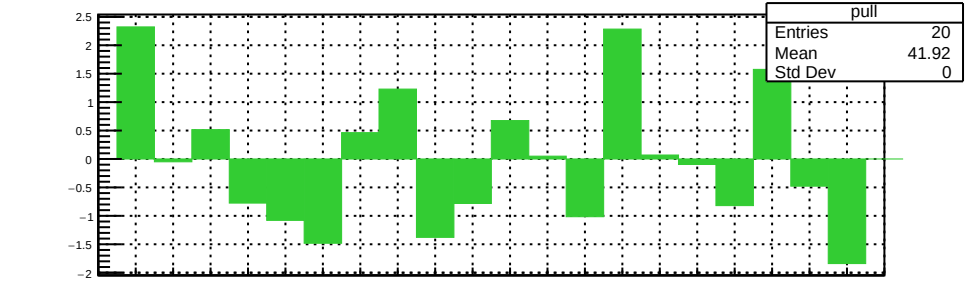

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.87 / 19
p0 −0.2051± 0.5226
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.6724
Std Dev 0
pull1D
Entries 20
Mean −0.03835
Std Dev 0.9707

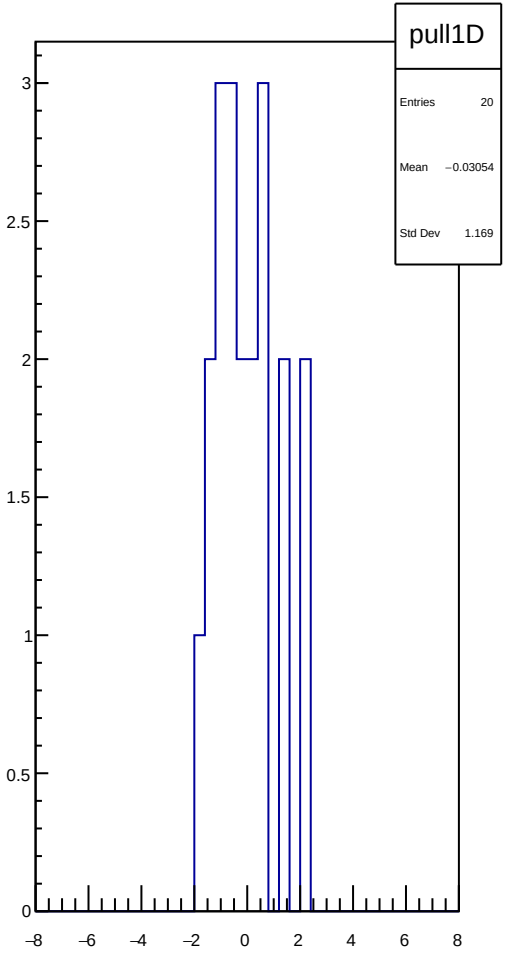

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3052 / 19
p0 234.4 ± 0.3695
280
270
260
250
240
230
220
210
200
190
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

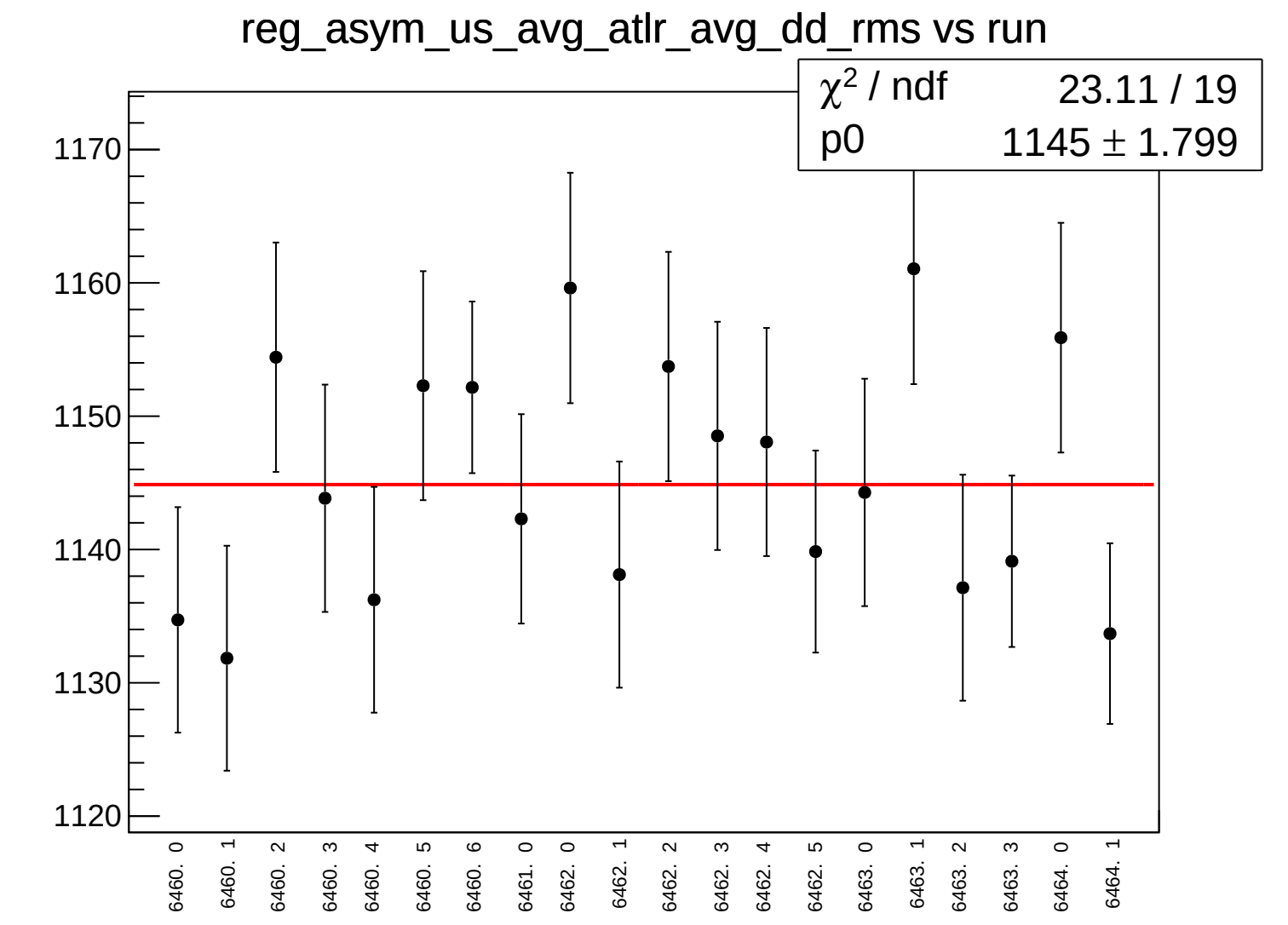

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.03 / 19
p0 1.766e−13 ± 2.566e−13
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −189.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.004275
Std Dev 0.9753
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

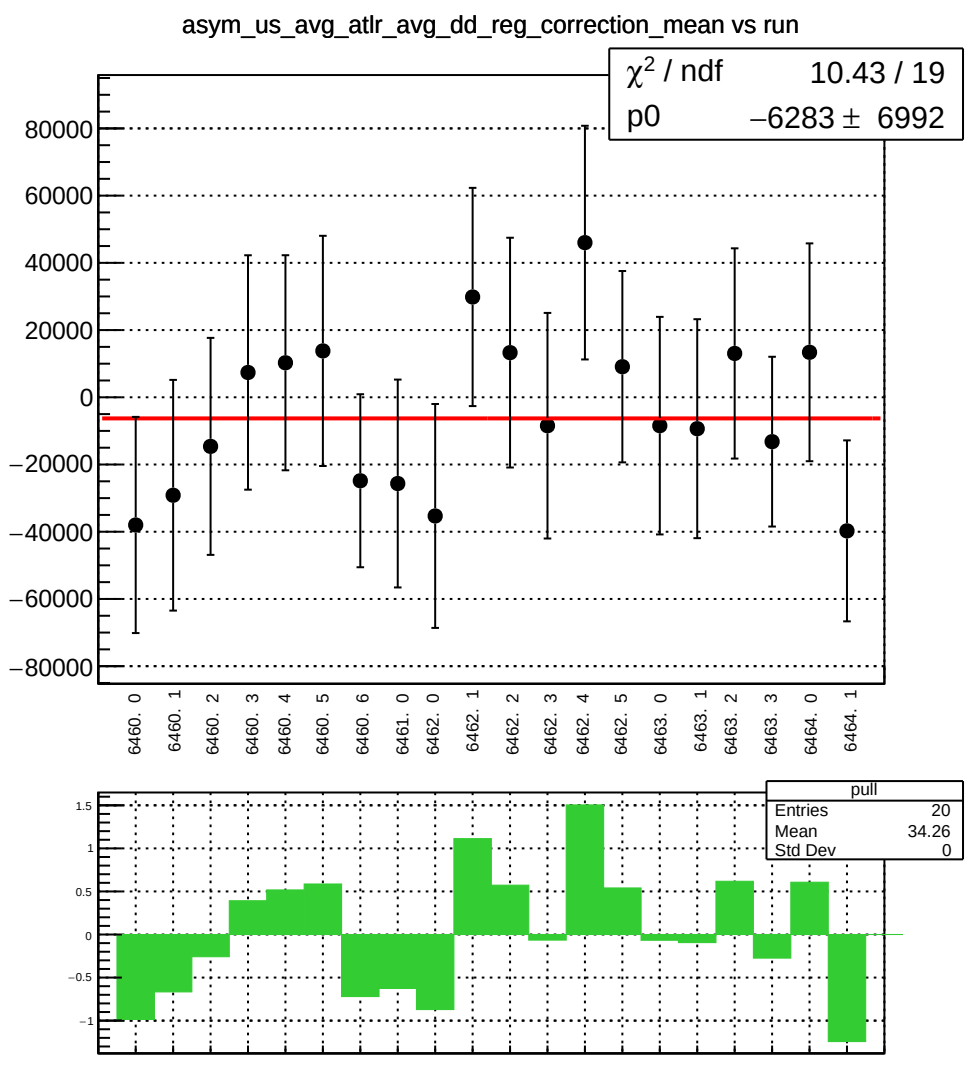

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.147e+05 / 19
p0 9.778e−11 ± 1.814e−13
0.5
0.4
0.3
0.2
0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

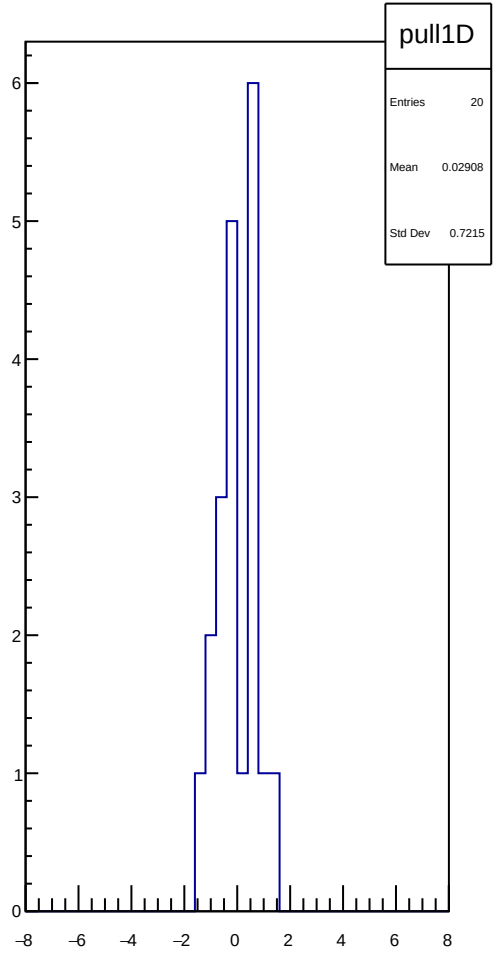

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 27.34 / 19
p0 −4418 ± 2544
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

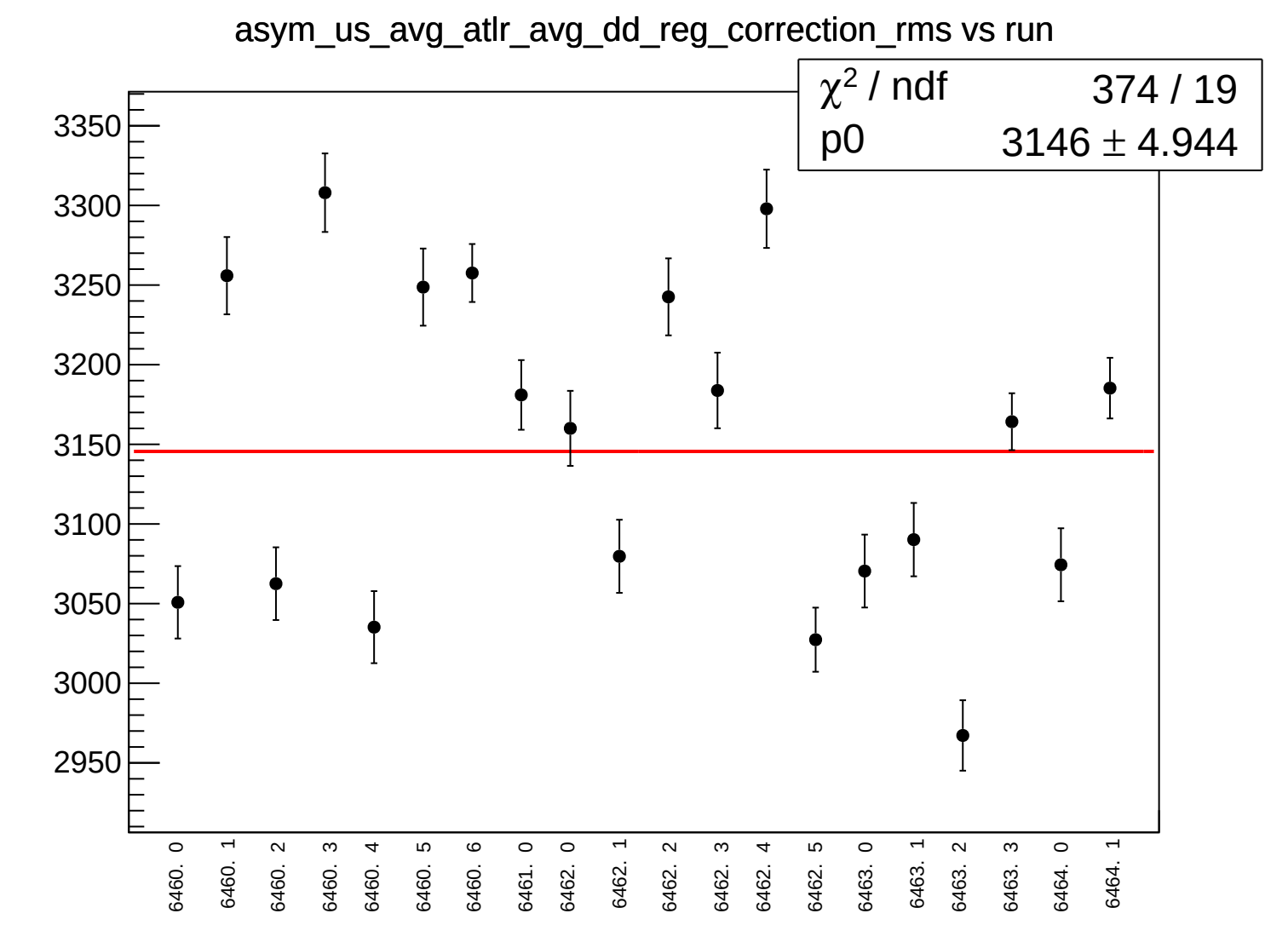

pull
Entries 20
Mean 41.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

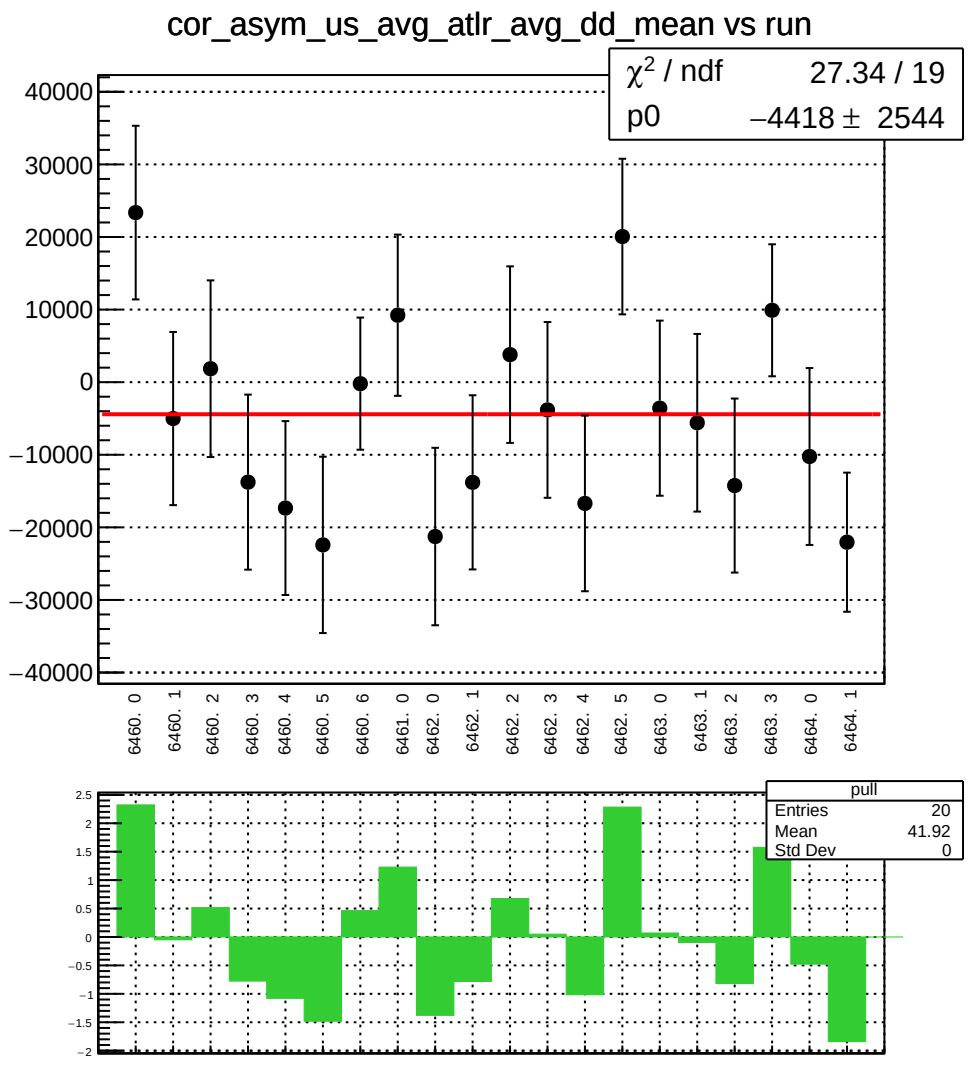

pull1D
Entries 20
Mean −0.03054
Std Dev 1.169
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

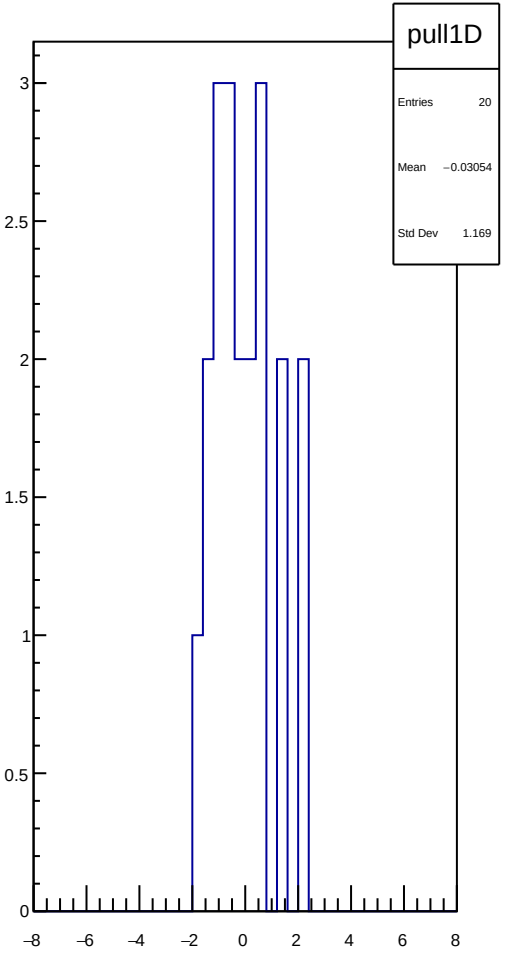

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 23.11 / 19
p0 1145 ± 1.799
1170
1160
1150
1140
1130
1120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

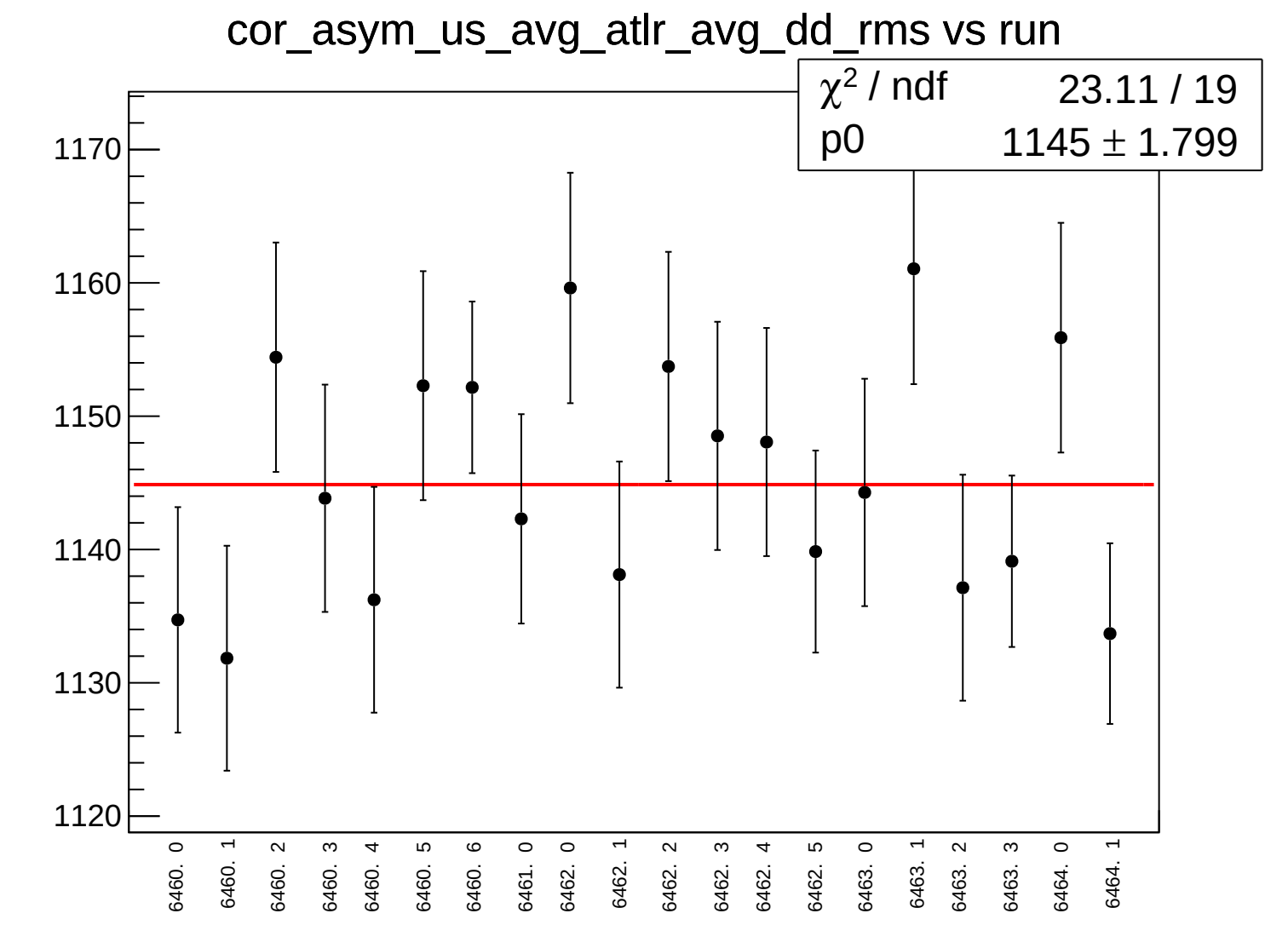

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
χ² / ndf 10.43 / 19
p0 −6283 ± 6992
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1

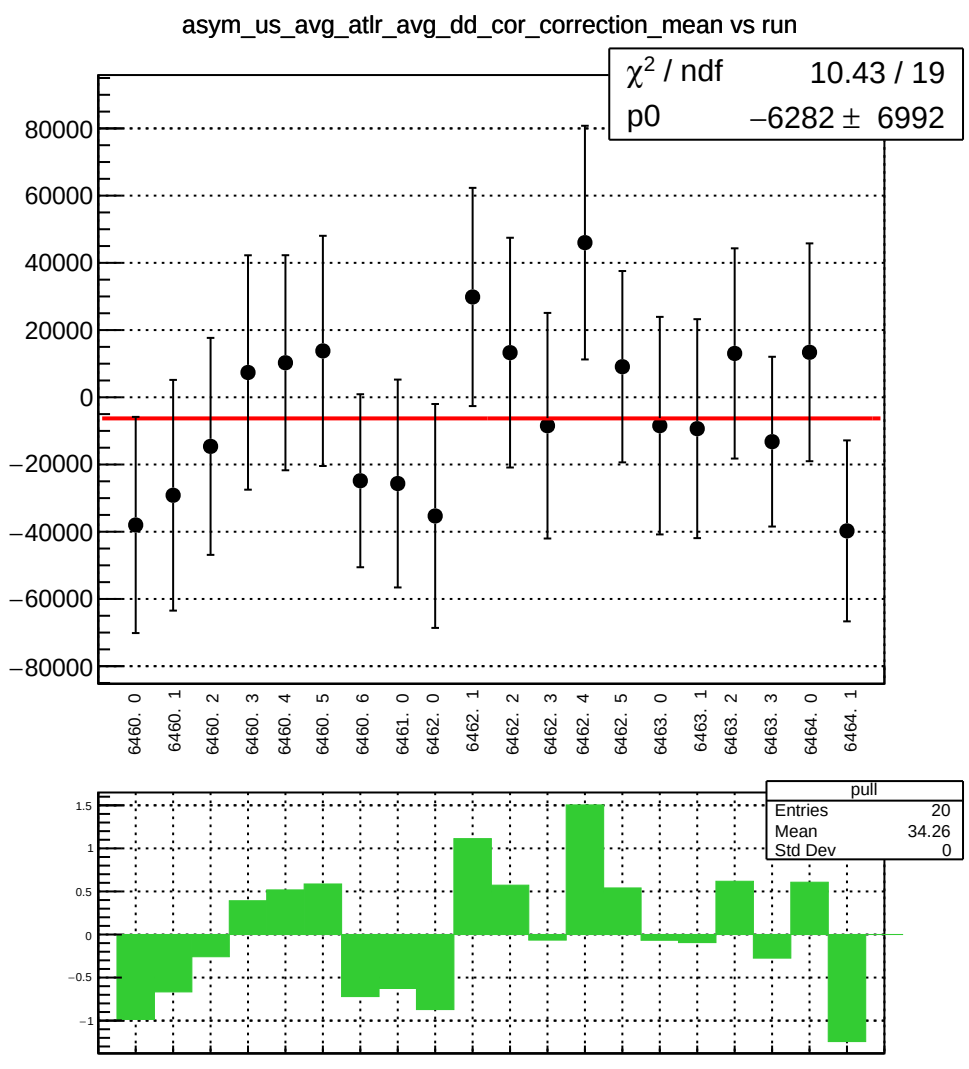

pull1D
Entries 20
Mean 0.02908
Std Dev 0.7215
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

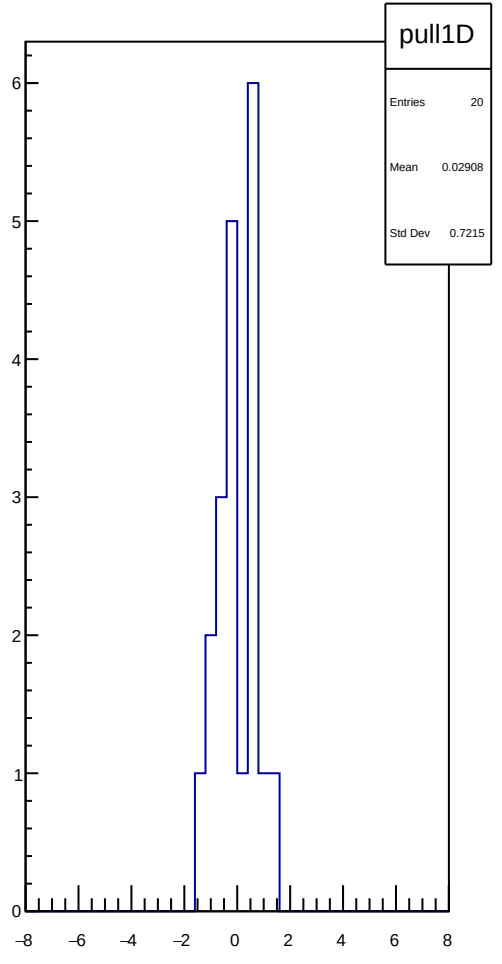

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 374 / 19
p0 3146 ± 4.944
3350
3300
3250
3200
3150
3100
3050
3000
2950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

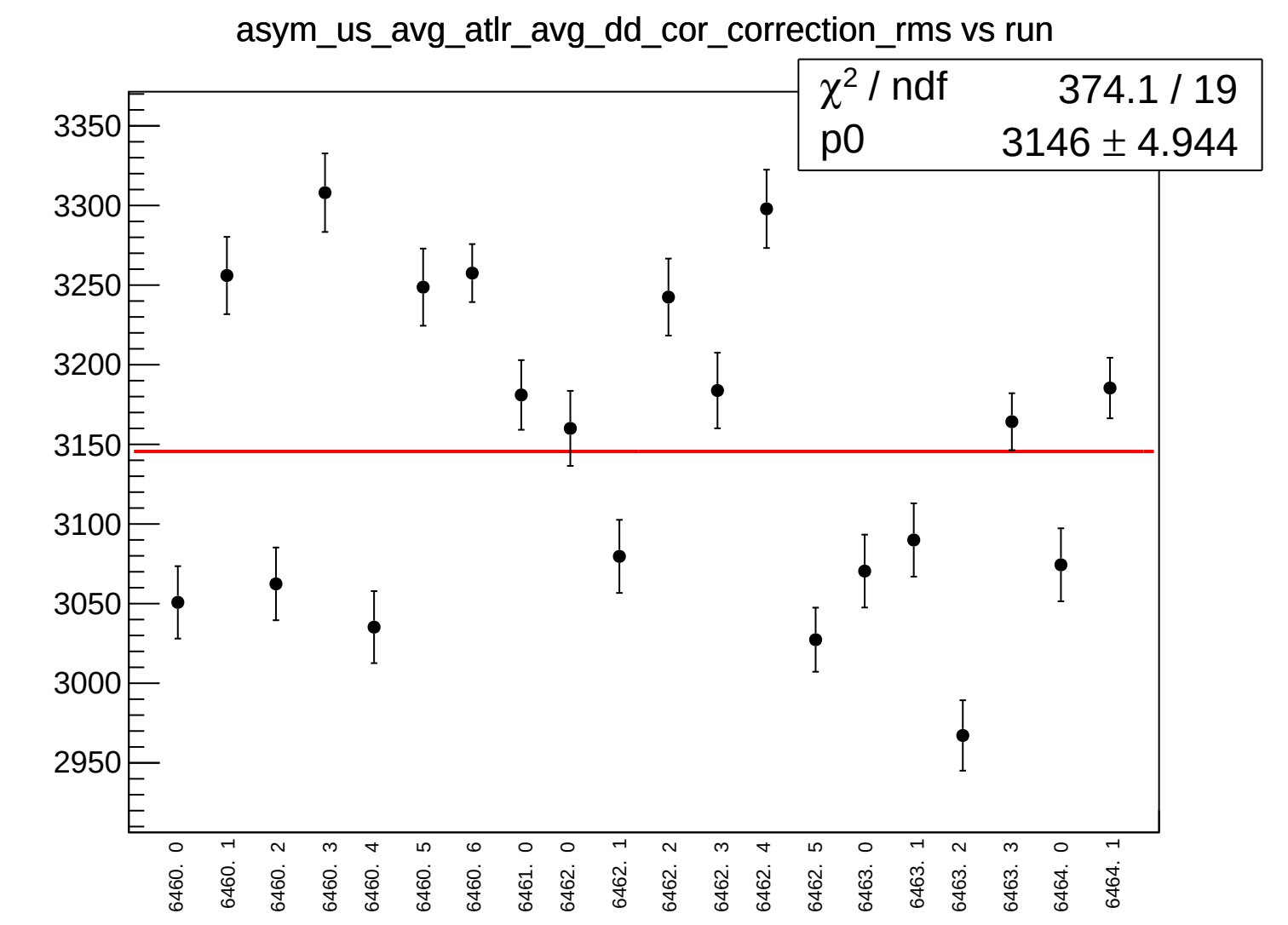

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 27.34 / 19
p0 −4418 ± 2544
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 41.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

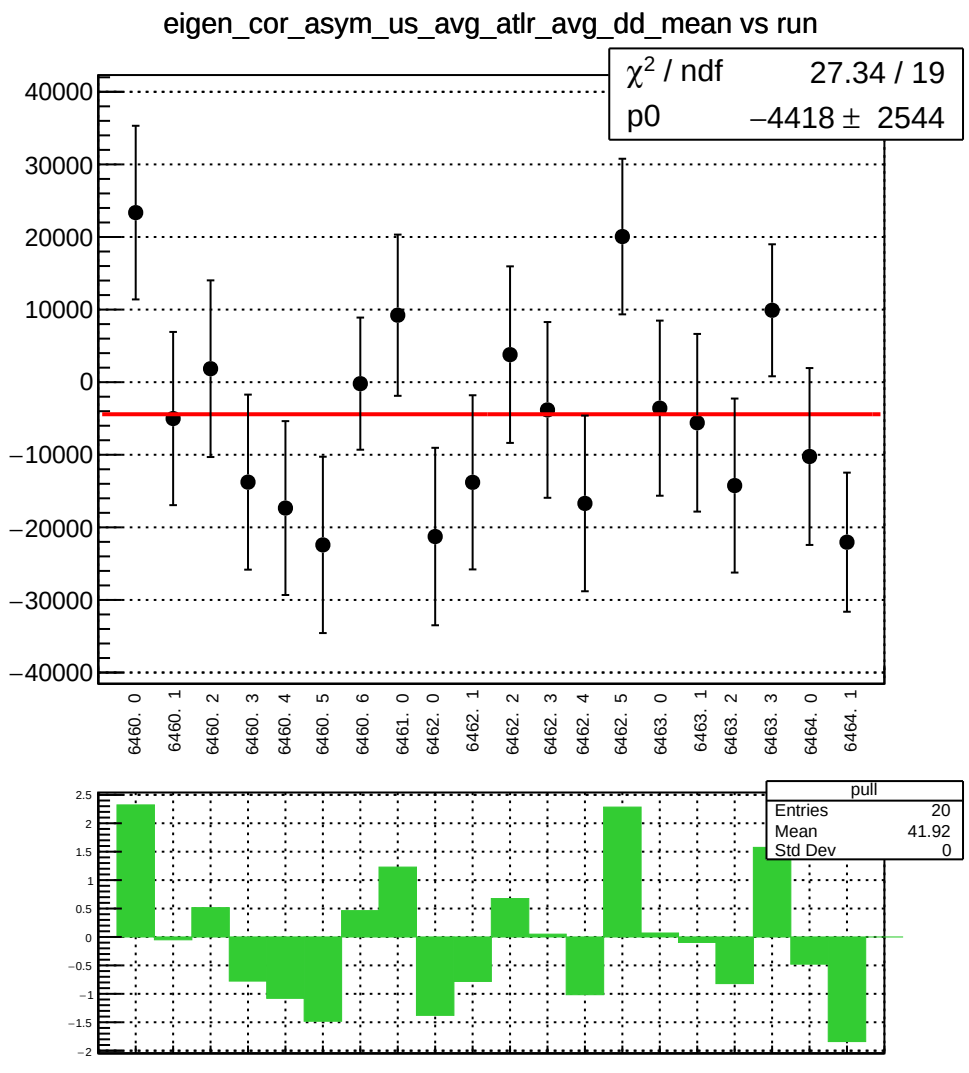

pull1D
Entries 20
Mean −0.03054
Std Dev 1.169
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

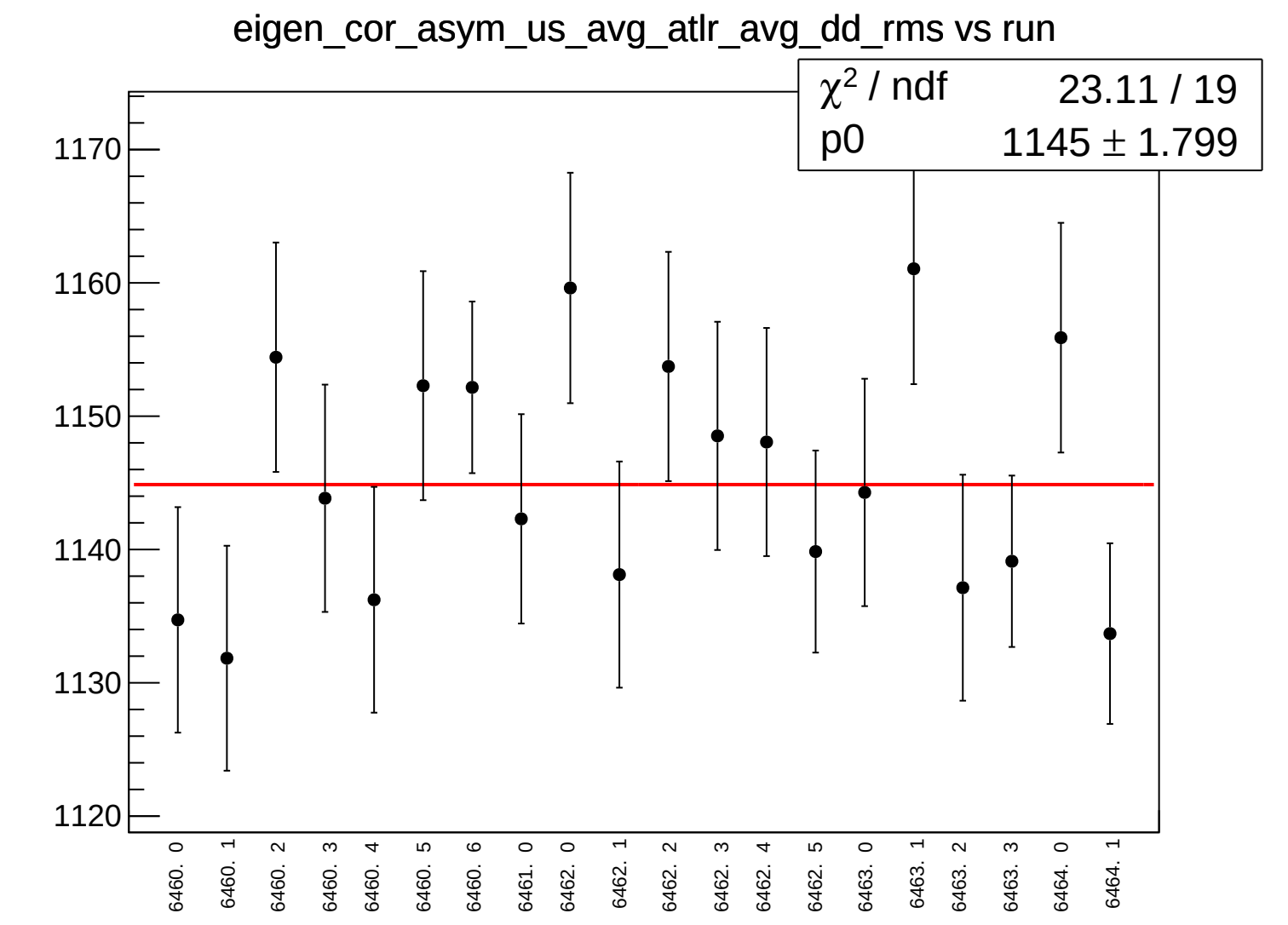

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 23.11 / 19
p0 1145 ± 1.799
1170
1160
1150
1140
1130
1120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

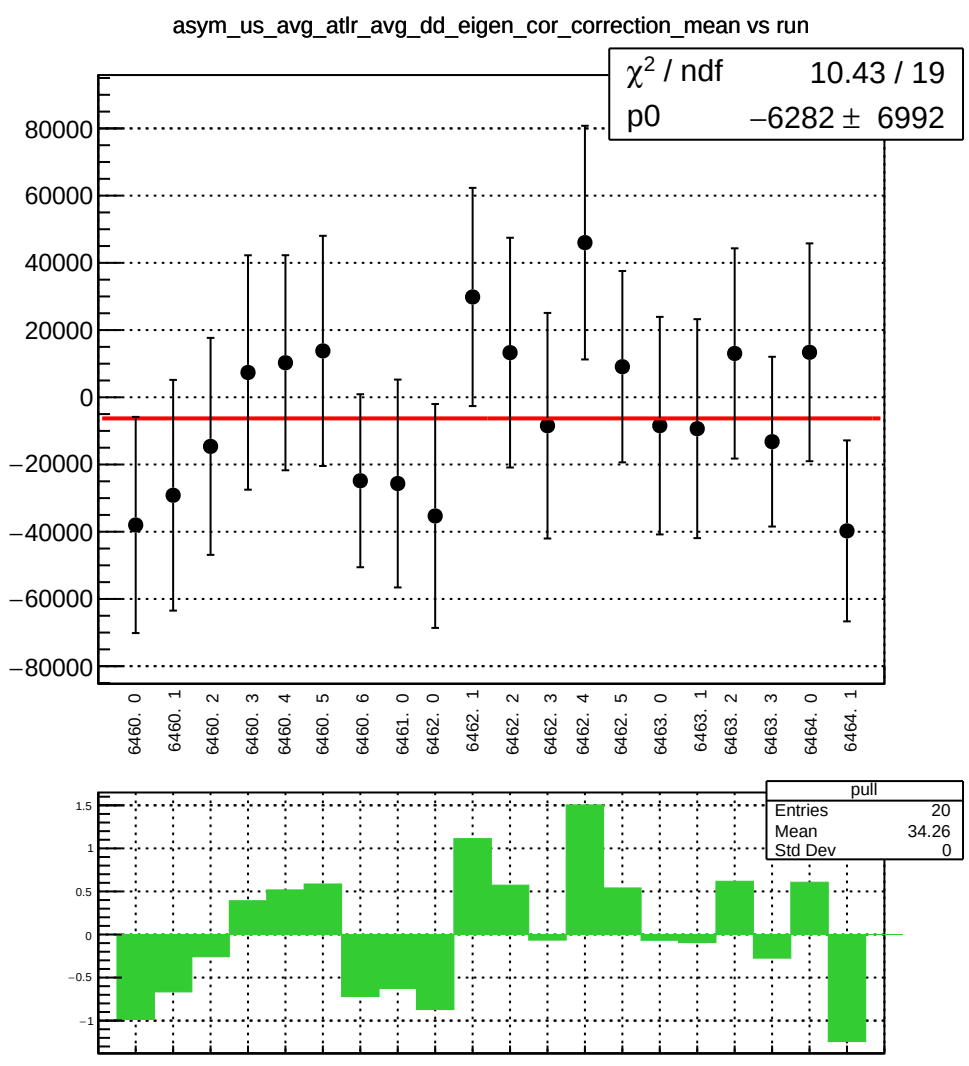

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
χ² / ndf 10.43 / 19
p0 −6282 ± 6992
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1

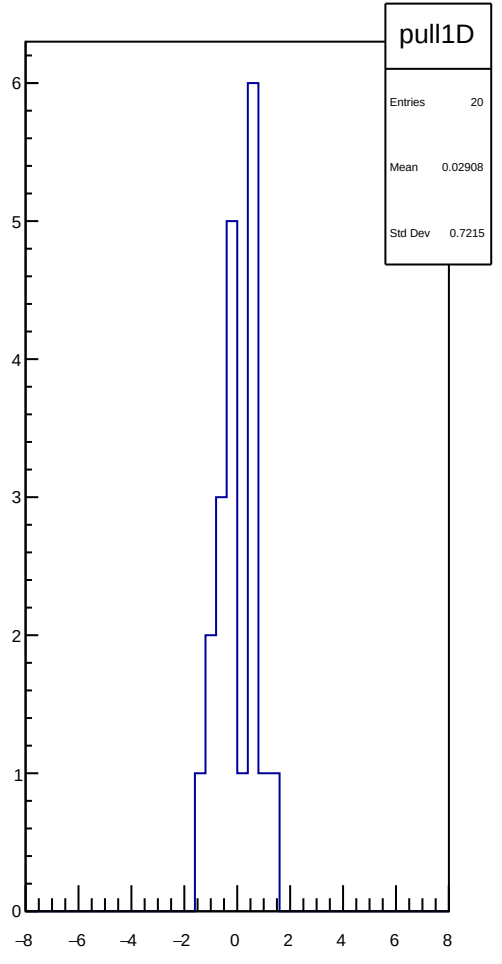

pull1D
Entries 20
Mean 0.02908
Std Dev 0.7215
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

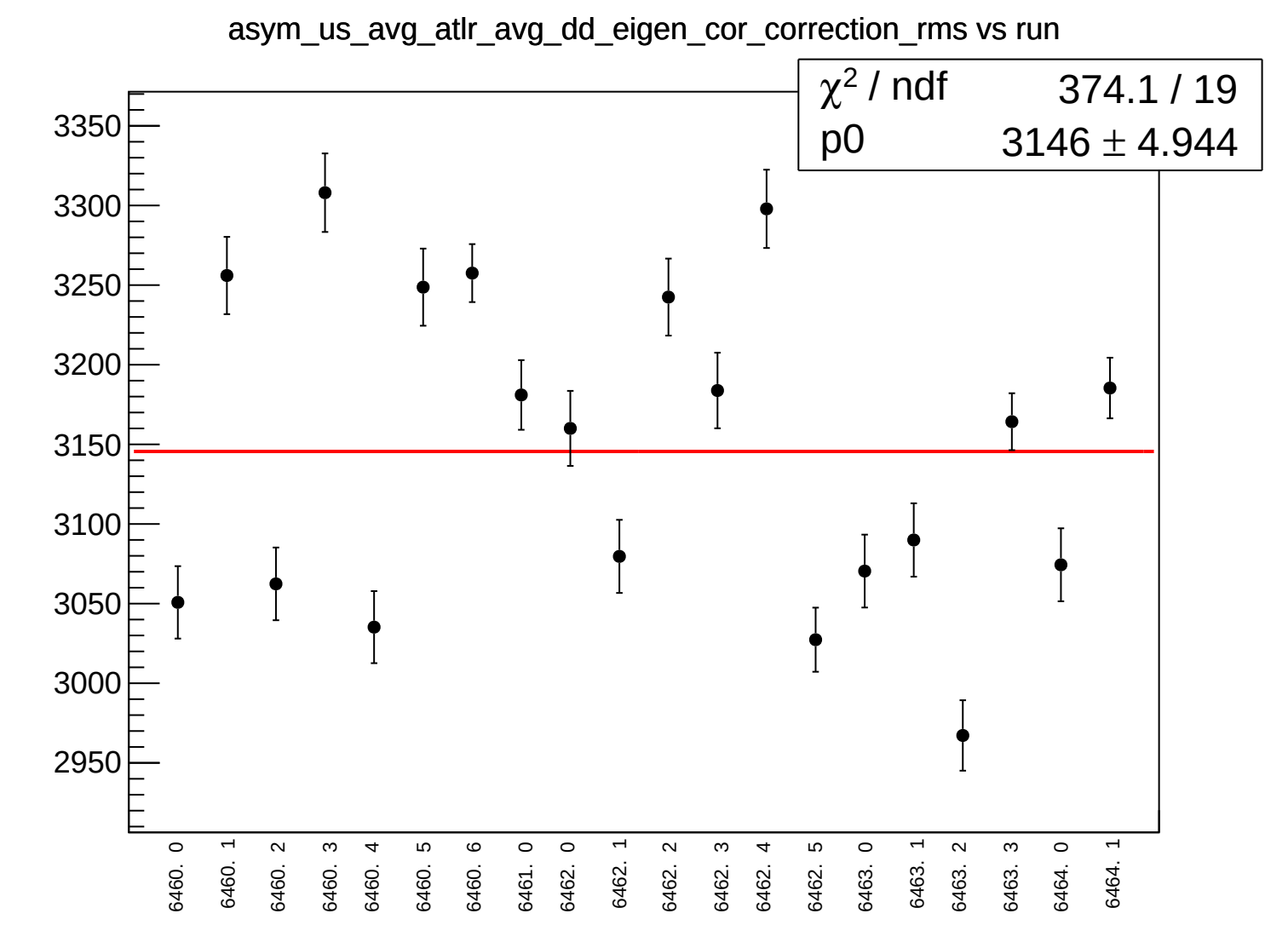

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 374.1 / 19
p0 3146 ± 4.944
3350
3300
3250
3200
3150
3100
3050
3000
2950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

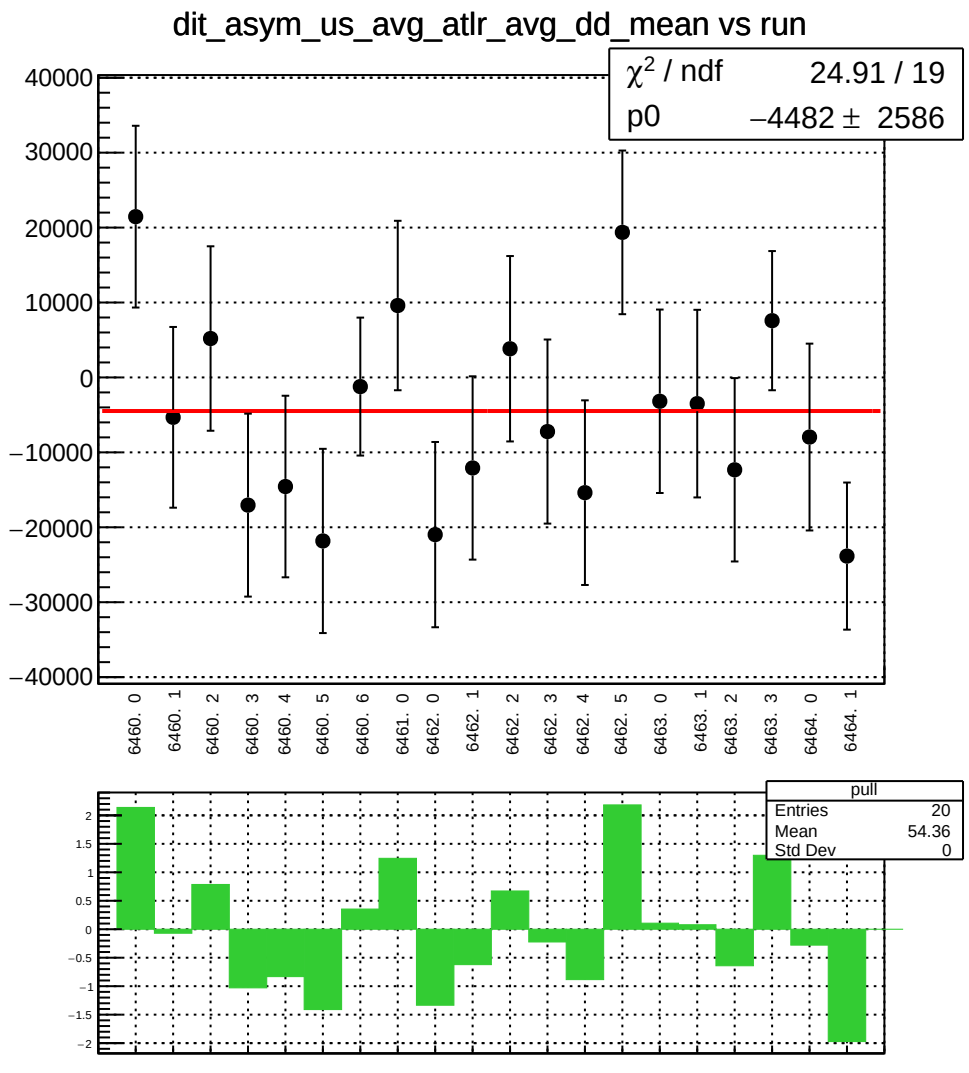

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 27.34 / 19
p0 −4418 ± 2544
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 41.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.03054
Std Dev 1.169
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

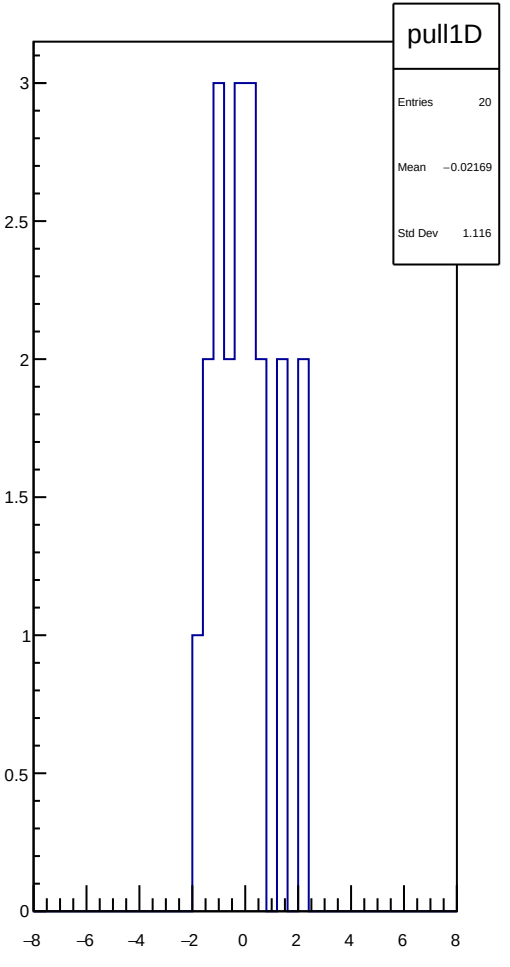

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 23.11 / 19
p0 1145 ± 1.799
1170
1160
1150
1140
1130
1120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

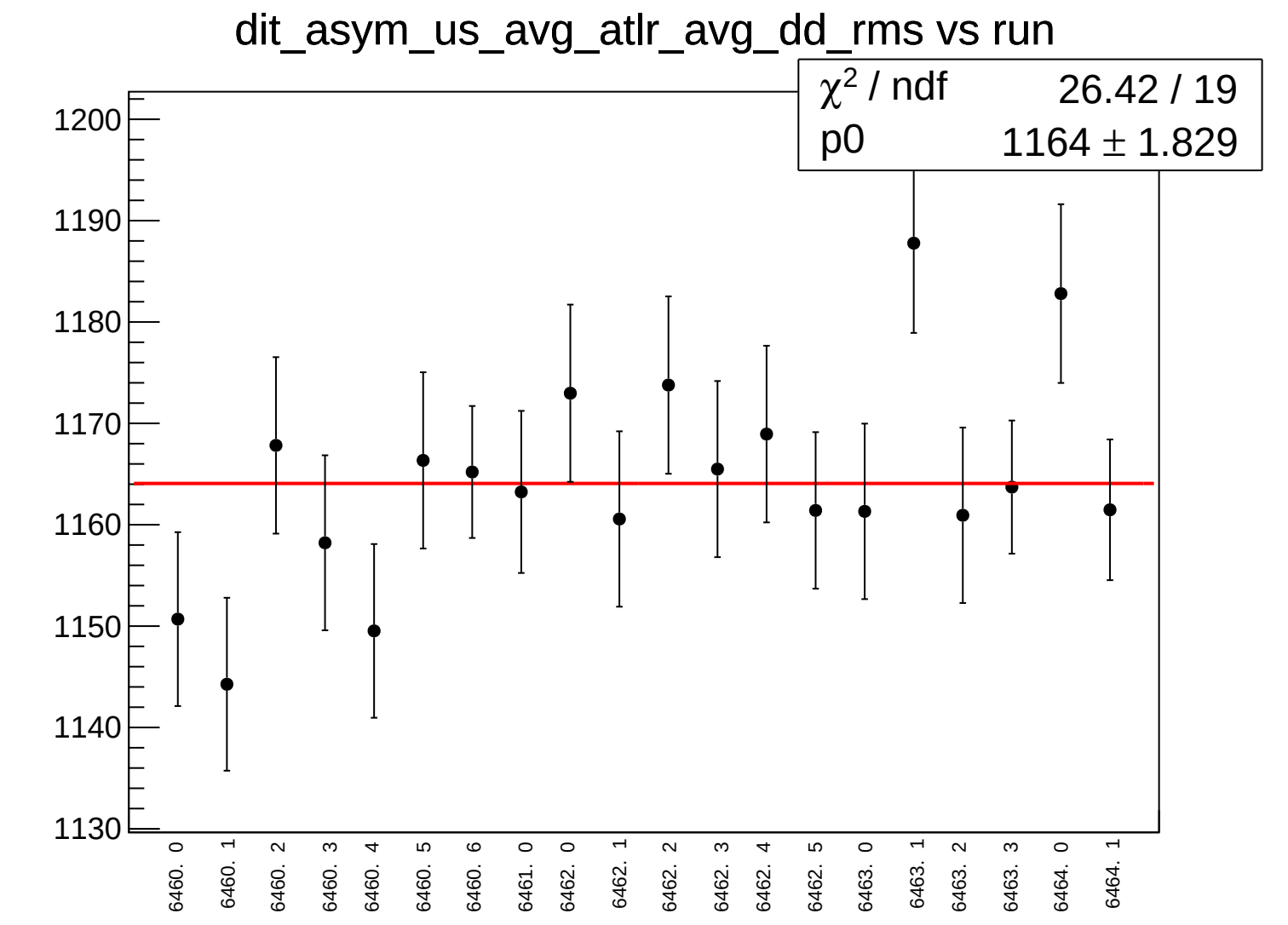

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 10.43 / 19
p0 −6282 ± 6992
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1

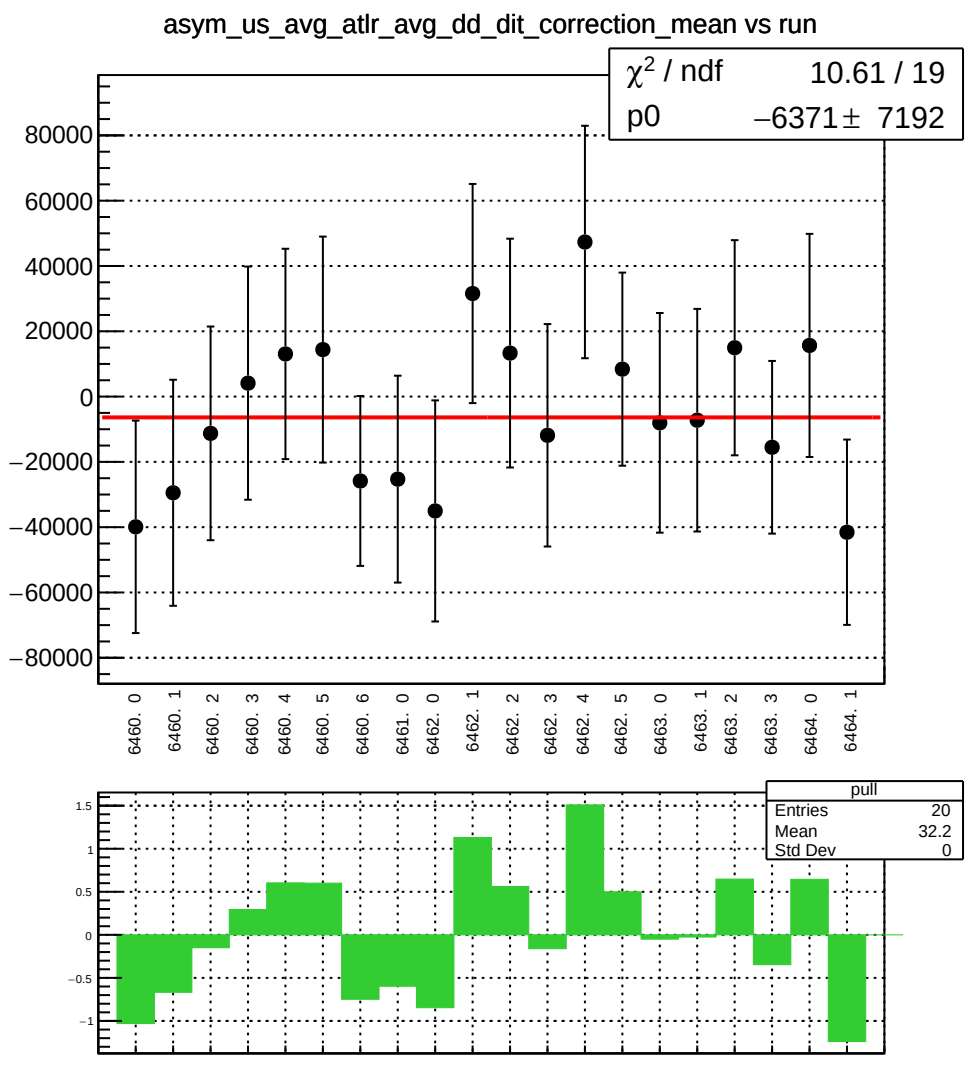

pull1D
Entries 20
Mean 0.02908
Std Dev 0.7215
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

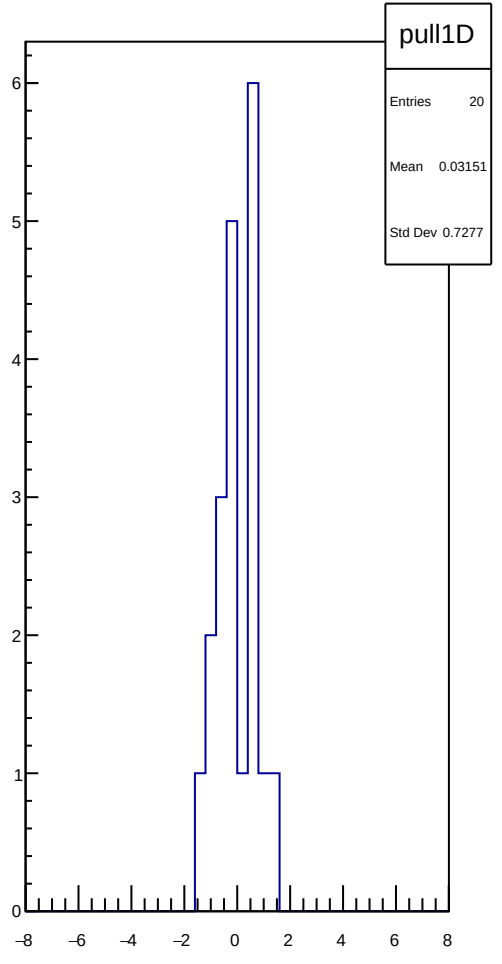

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 374.1 / 19
p0 3146 ± 4.944
3350
3300
3250
3200
3150
3100
3050
3000
2950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

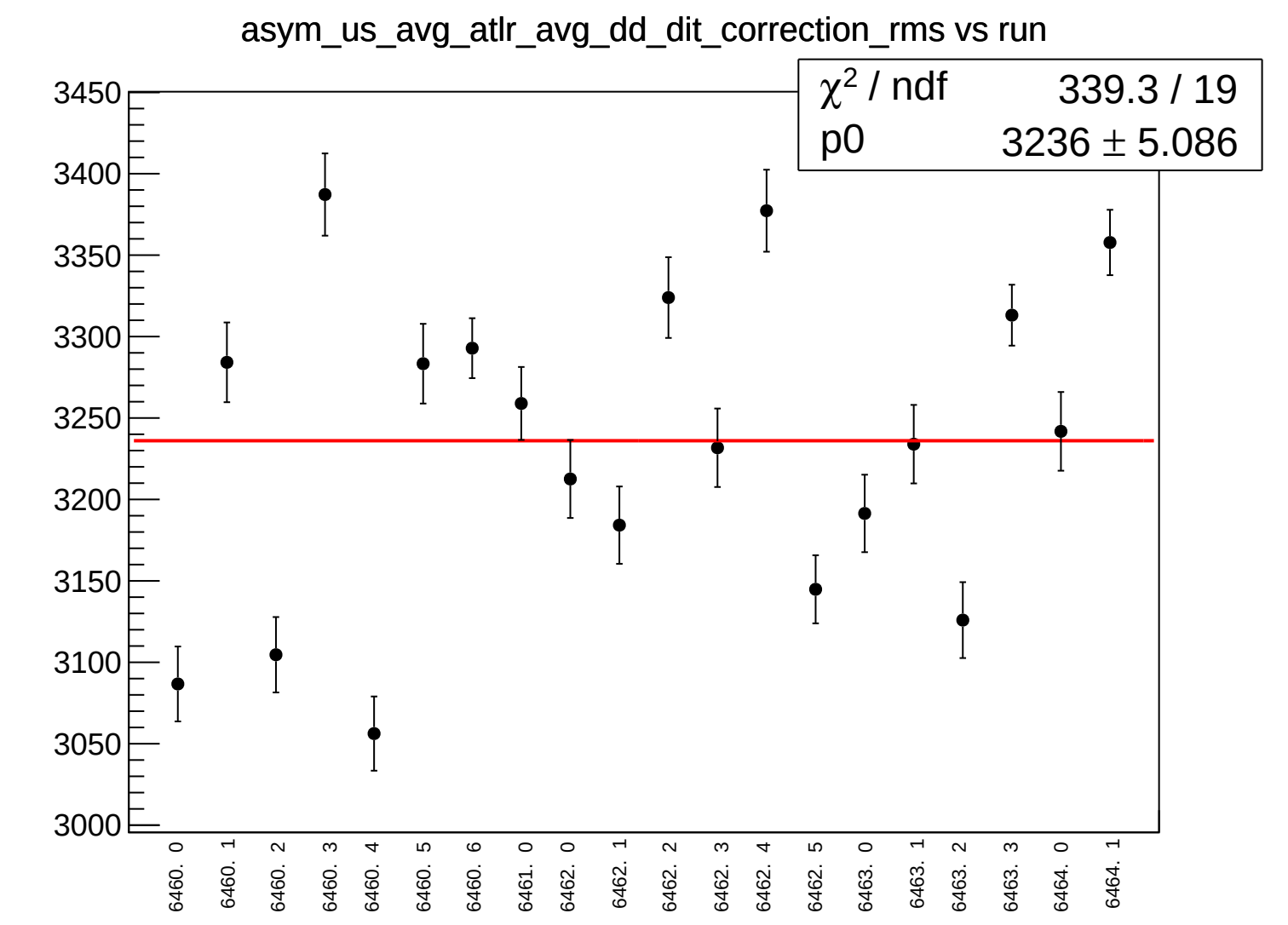

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 24.91 / 19
p0 −4482 ± 2586
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 54.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

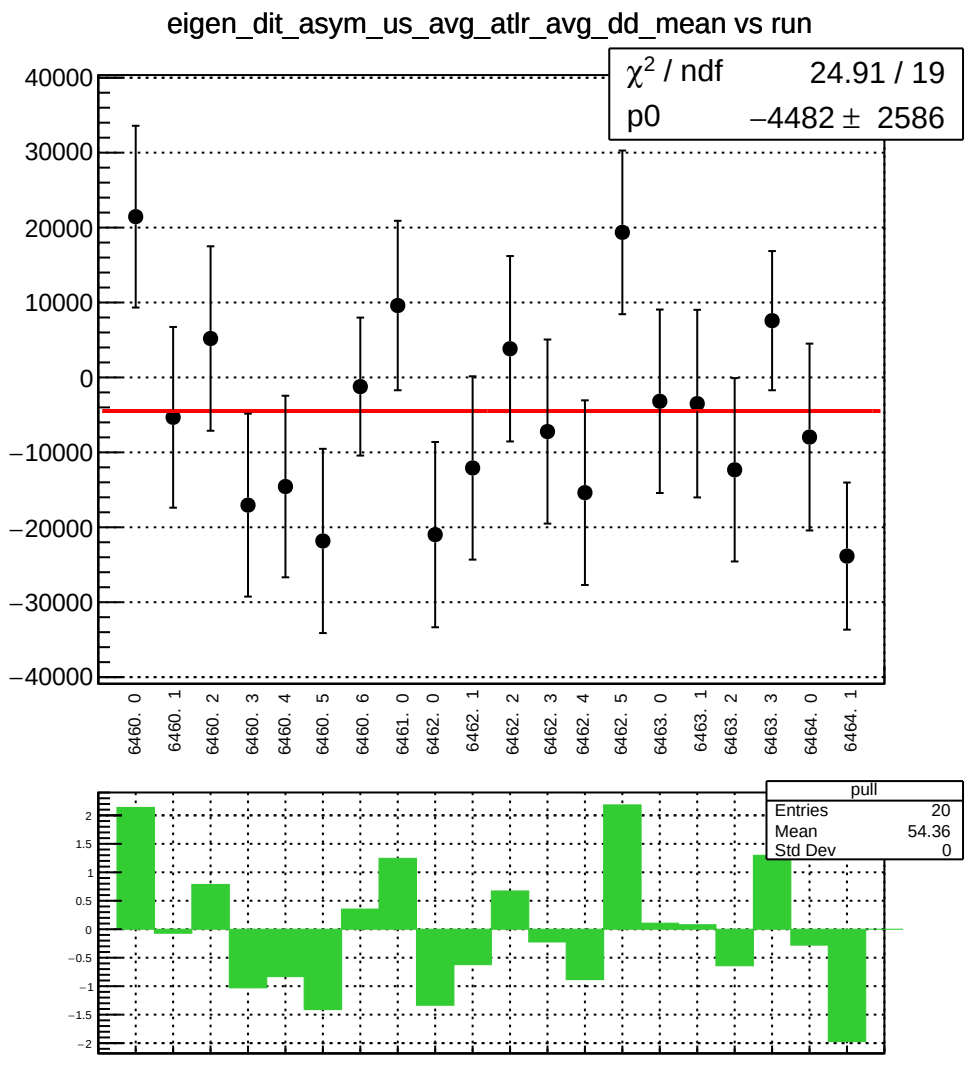

pull1D
Entries 20
Mean −0.02169
Std Dev 1.116
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

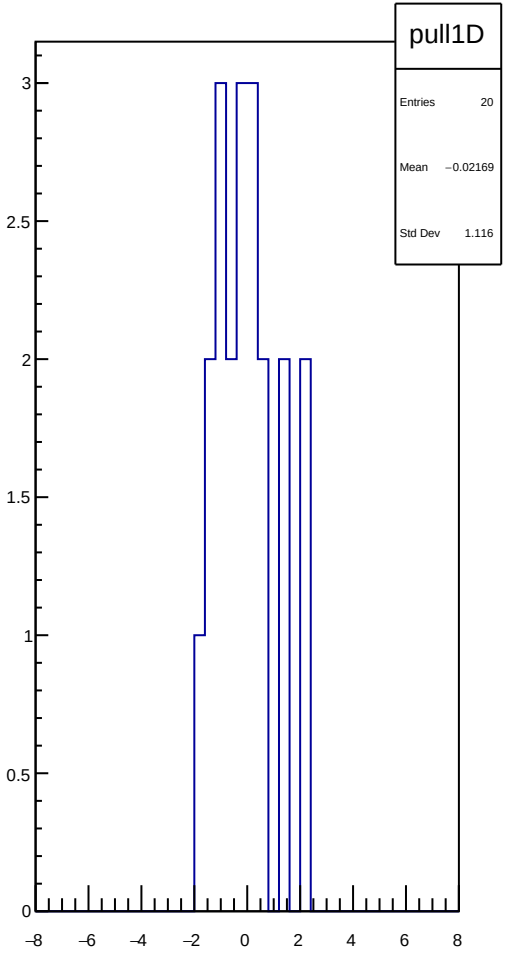

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 26.42 / 19
p0 1164 ± 1.829
1200
1190
1180
1170
1160
1150
1140
1130
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

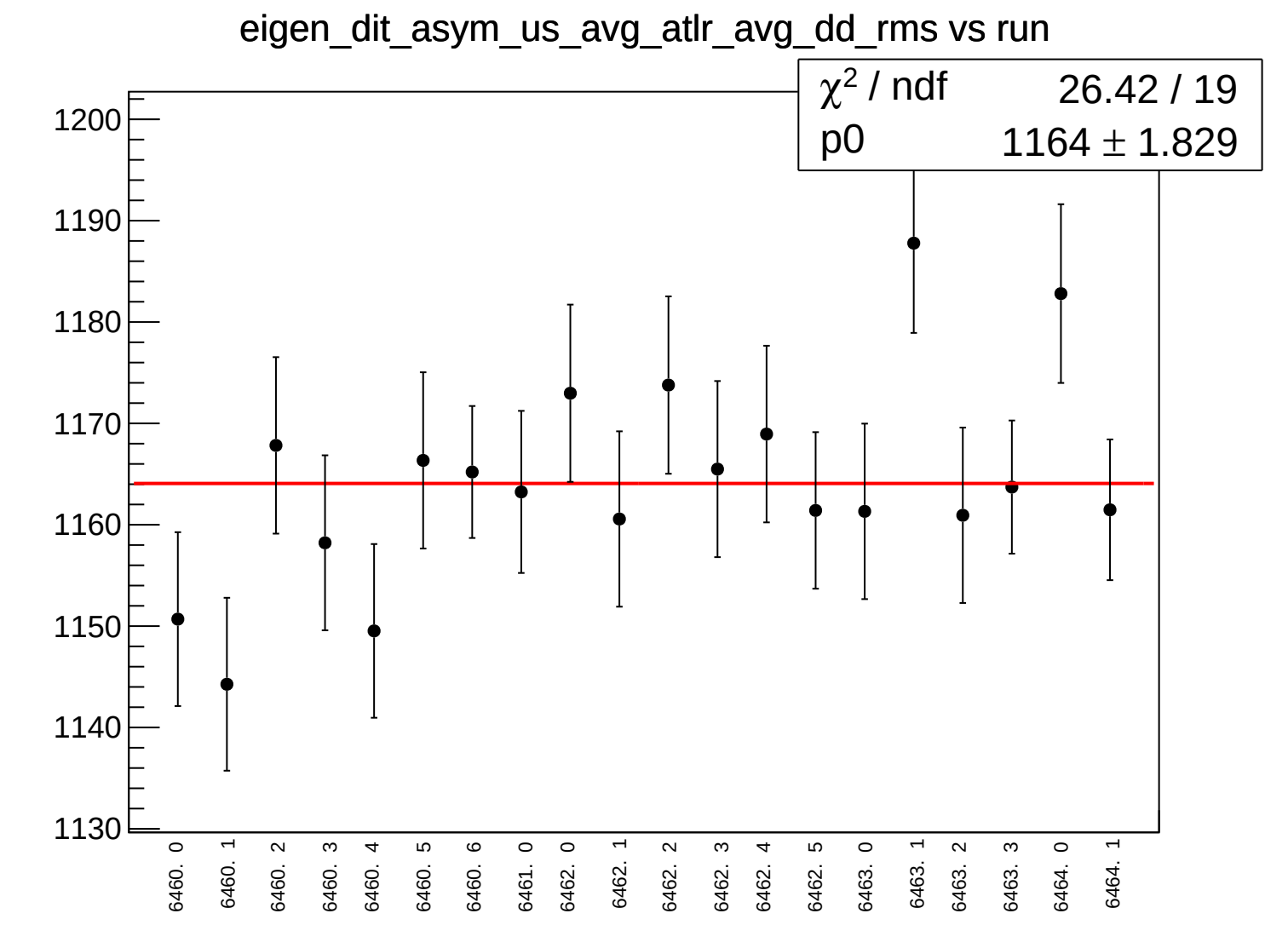

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
χ² / ndf 10.61 / 19
p0 −6371 ± 7192
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

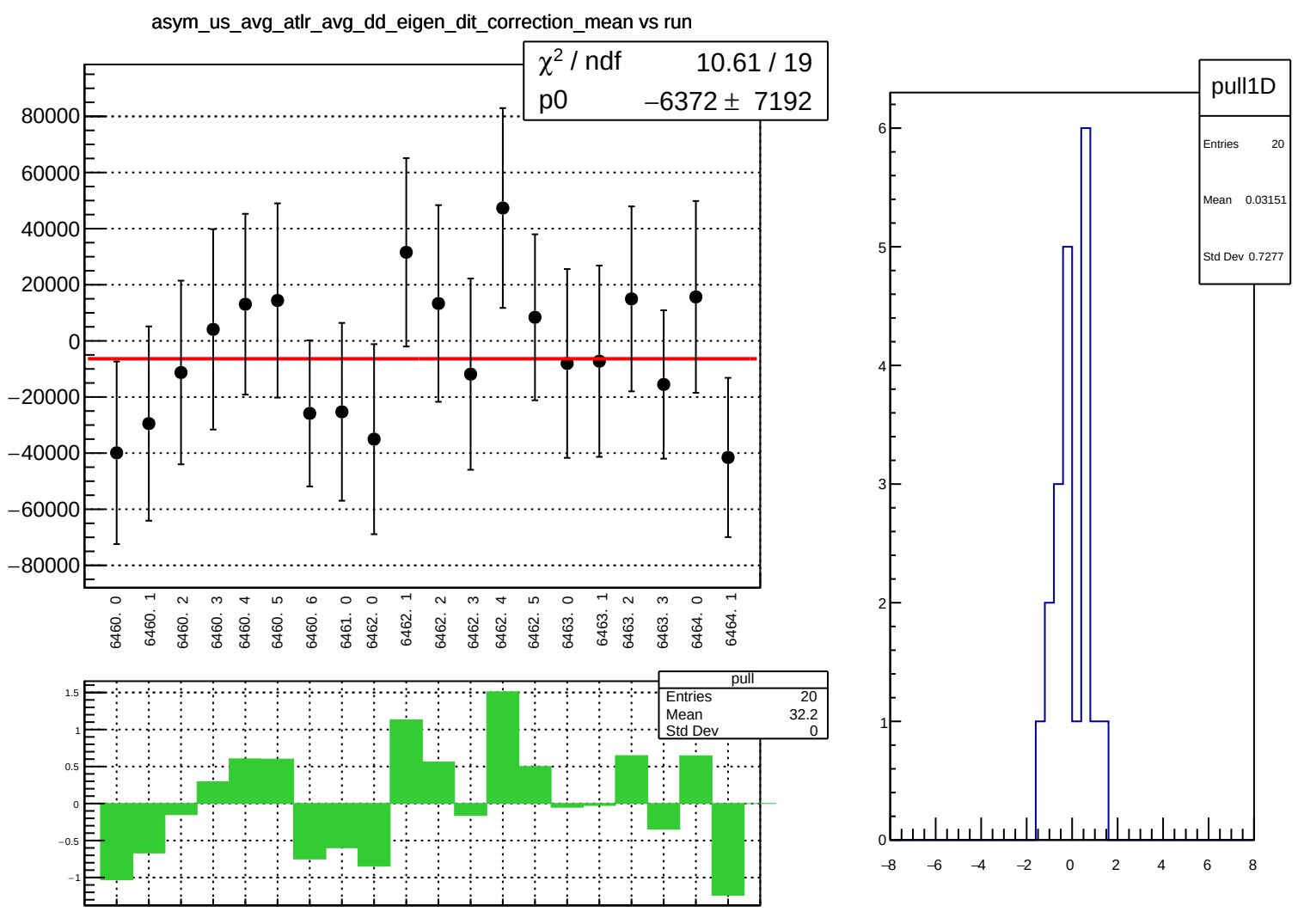

pull1D
Entries 20
Mean 0.03151
Std Dev 0.7277
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

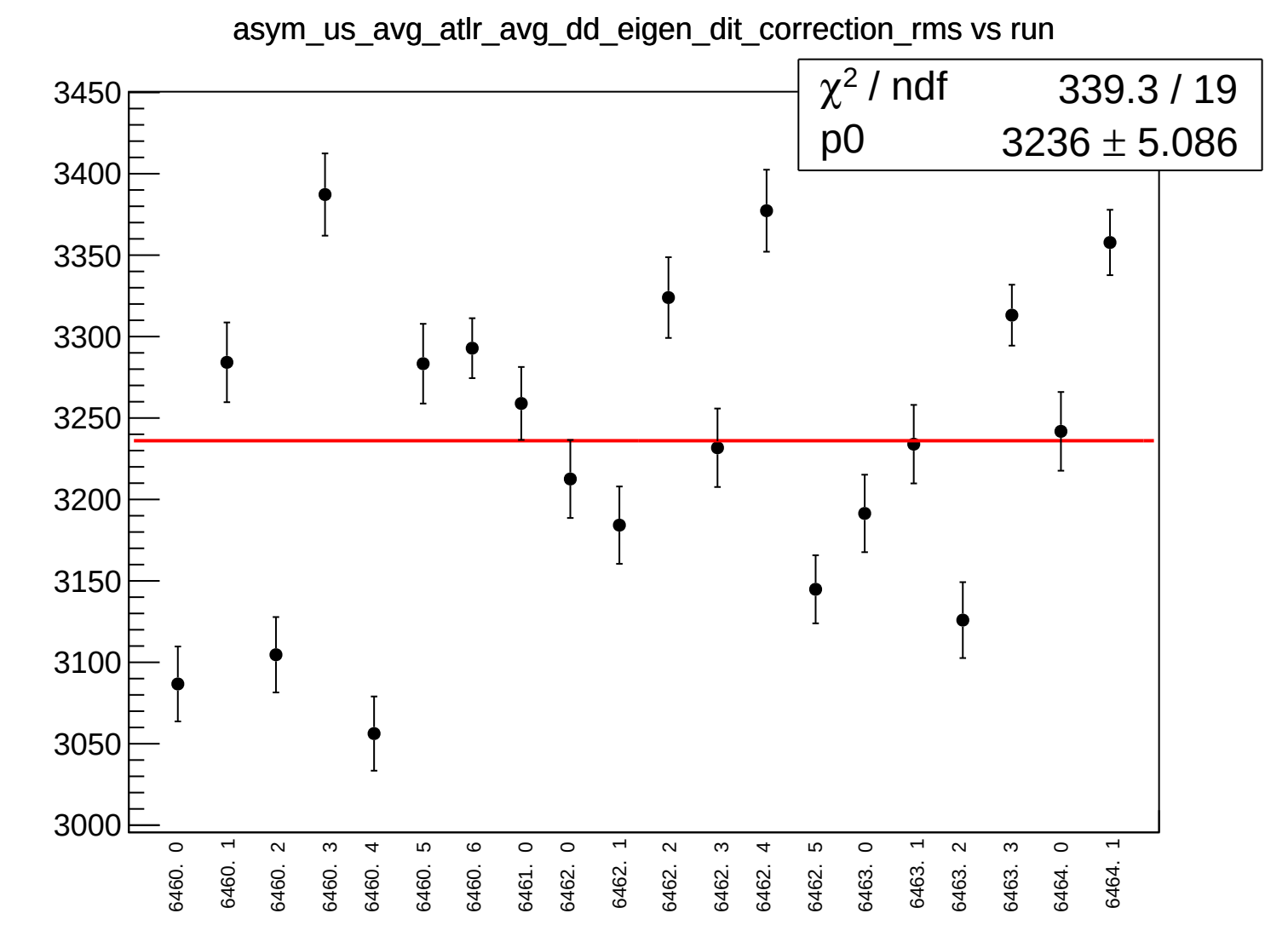

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 339.3 / 19
p0 3236 ± 5.086
3450
3400
3350
3300
3250
3200
3150
3100
3050
3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

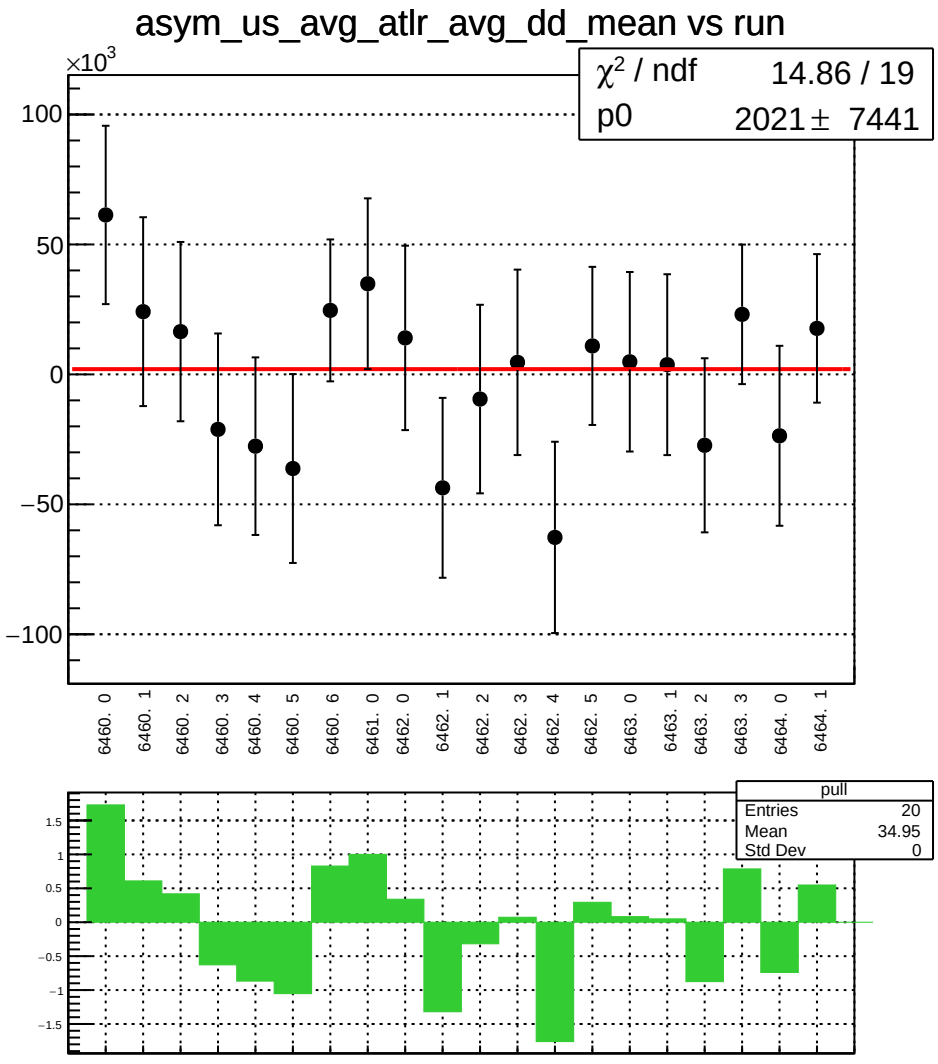

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 24.91 / 19
p0 −4482 ± 2586
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 54.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

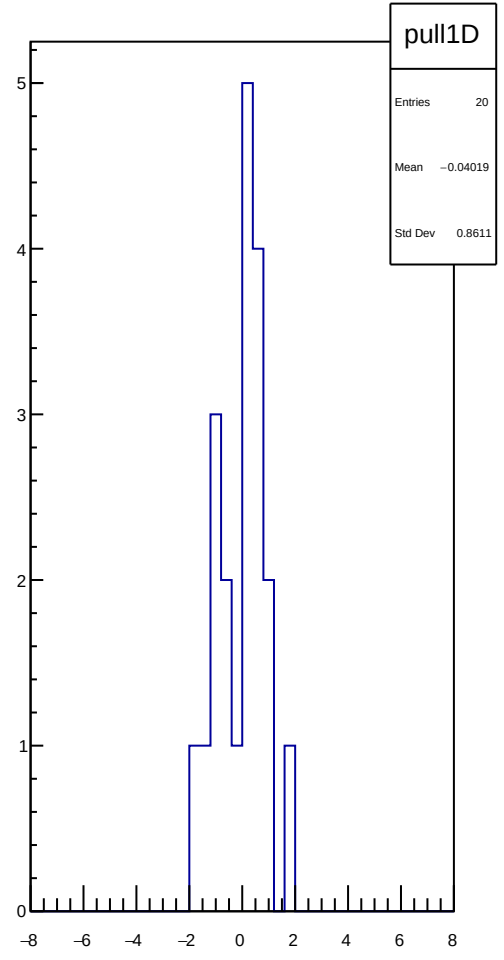

pull1D
Entries 20
Mean −0.02169
Std Dev 1.116
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

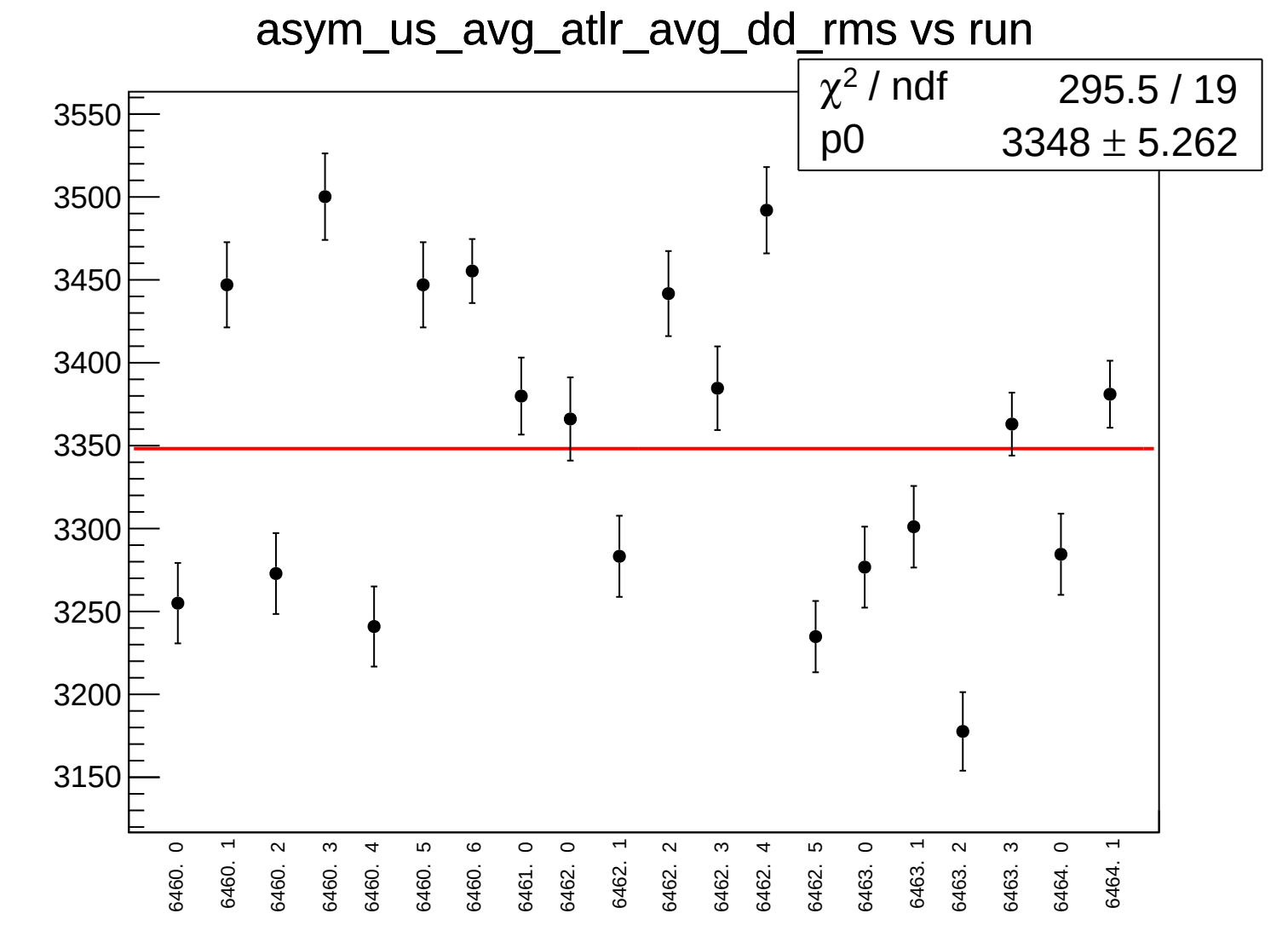

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 26.42 / 19
p0 1164 ± 1.829
1200
1190
1180
1170
1160
1150
1140
1130
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

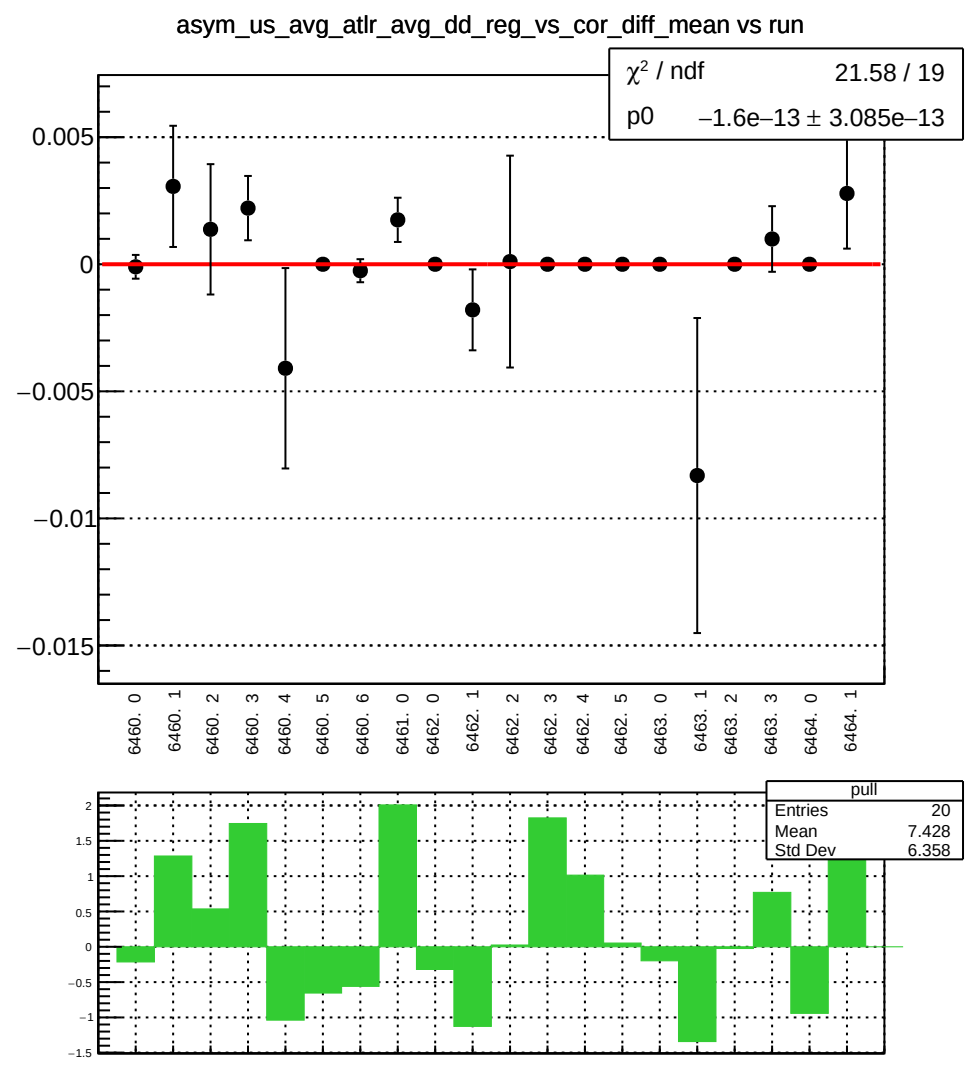

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 10.61 / 19
p0 −6372 ± 7192
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03151
Std Dev 0.7277
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

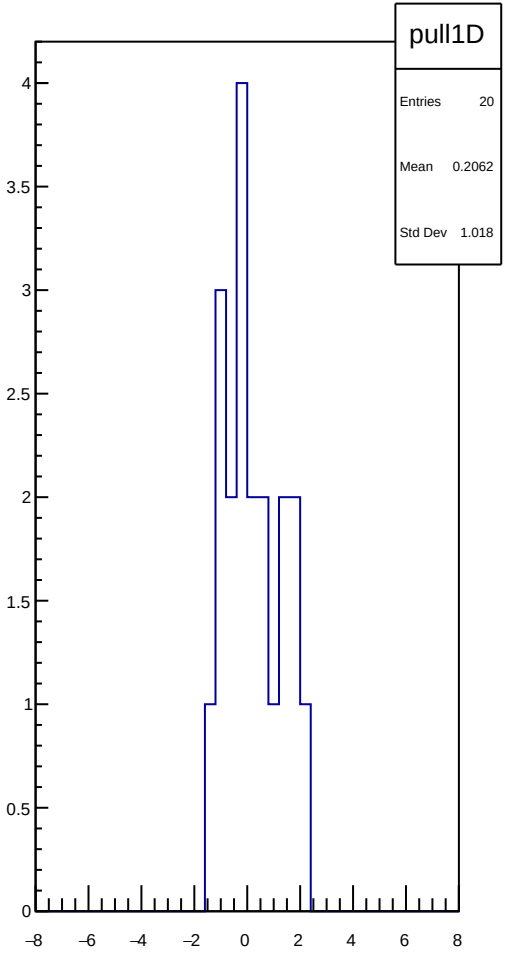

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 339.3 / 19
p0 3236 ± 5.086
3450
3400
3350
3300
3250
3200
3150
3100
3050
3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

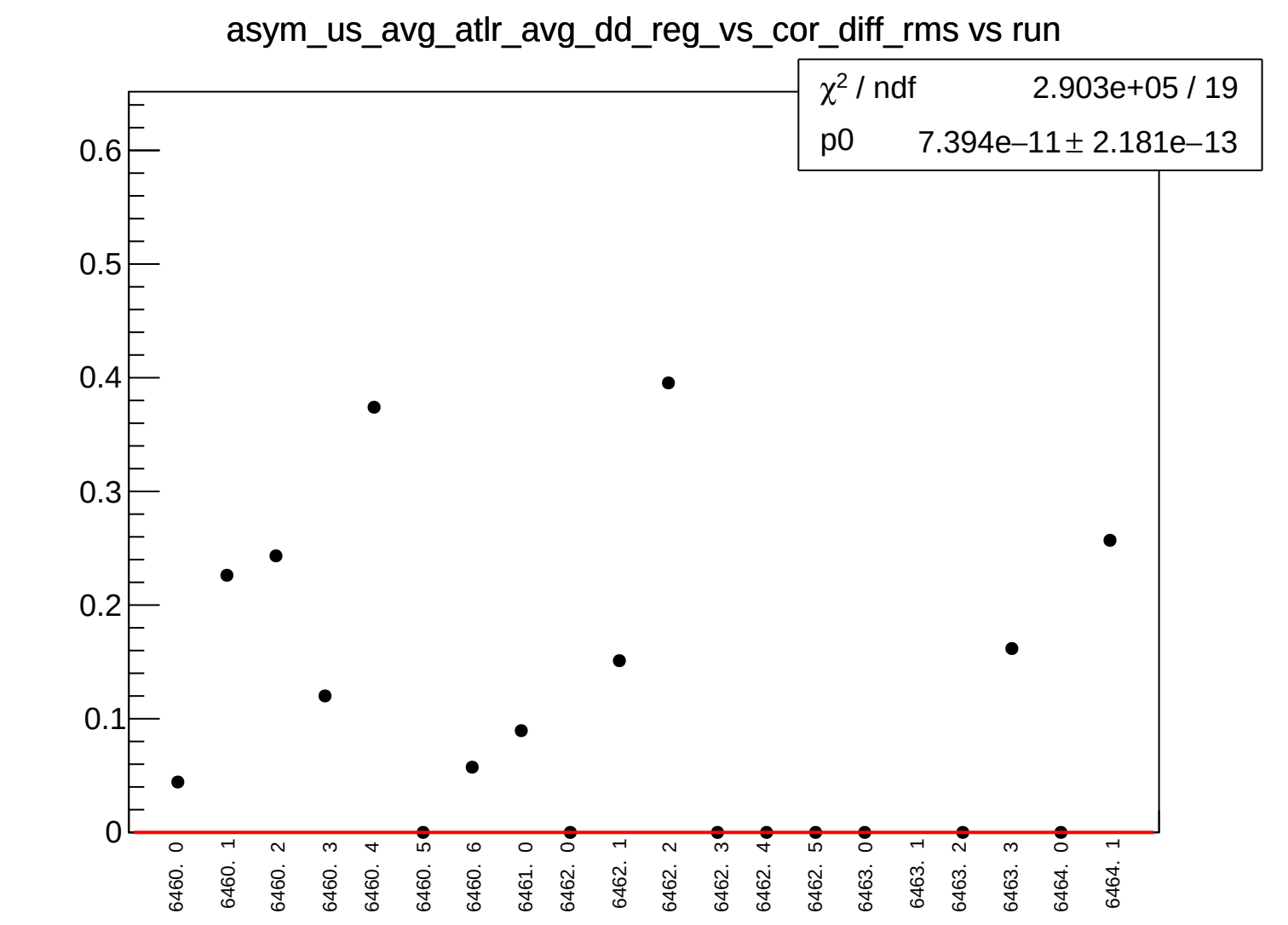

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 14.86 / 19
p0 2021 ± 7441
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

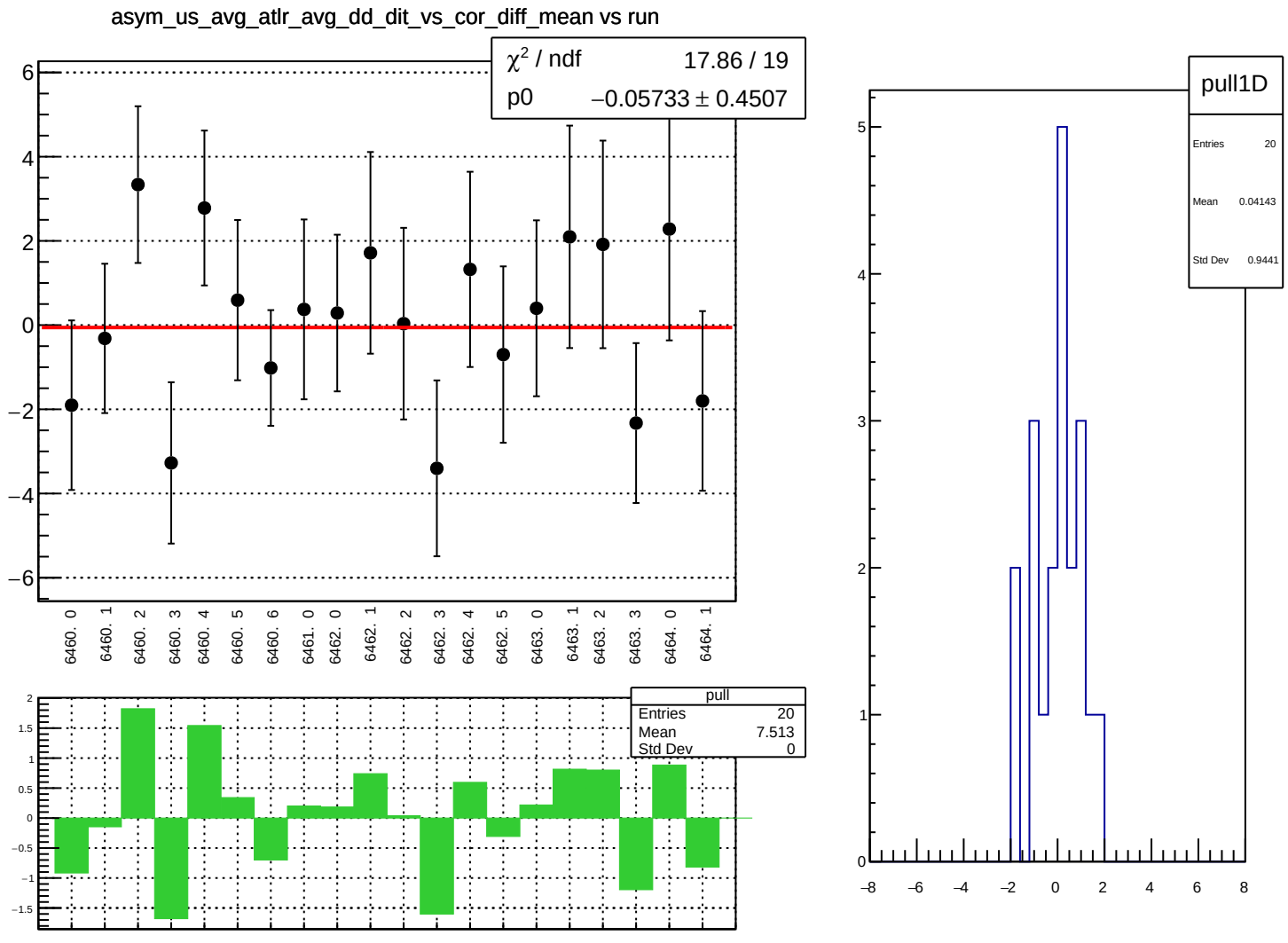

pull1D
Entries 20
Mean −0.04019
Std Dev 0.8611
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

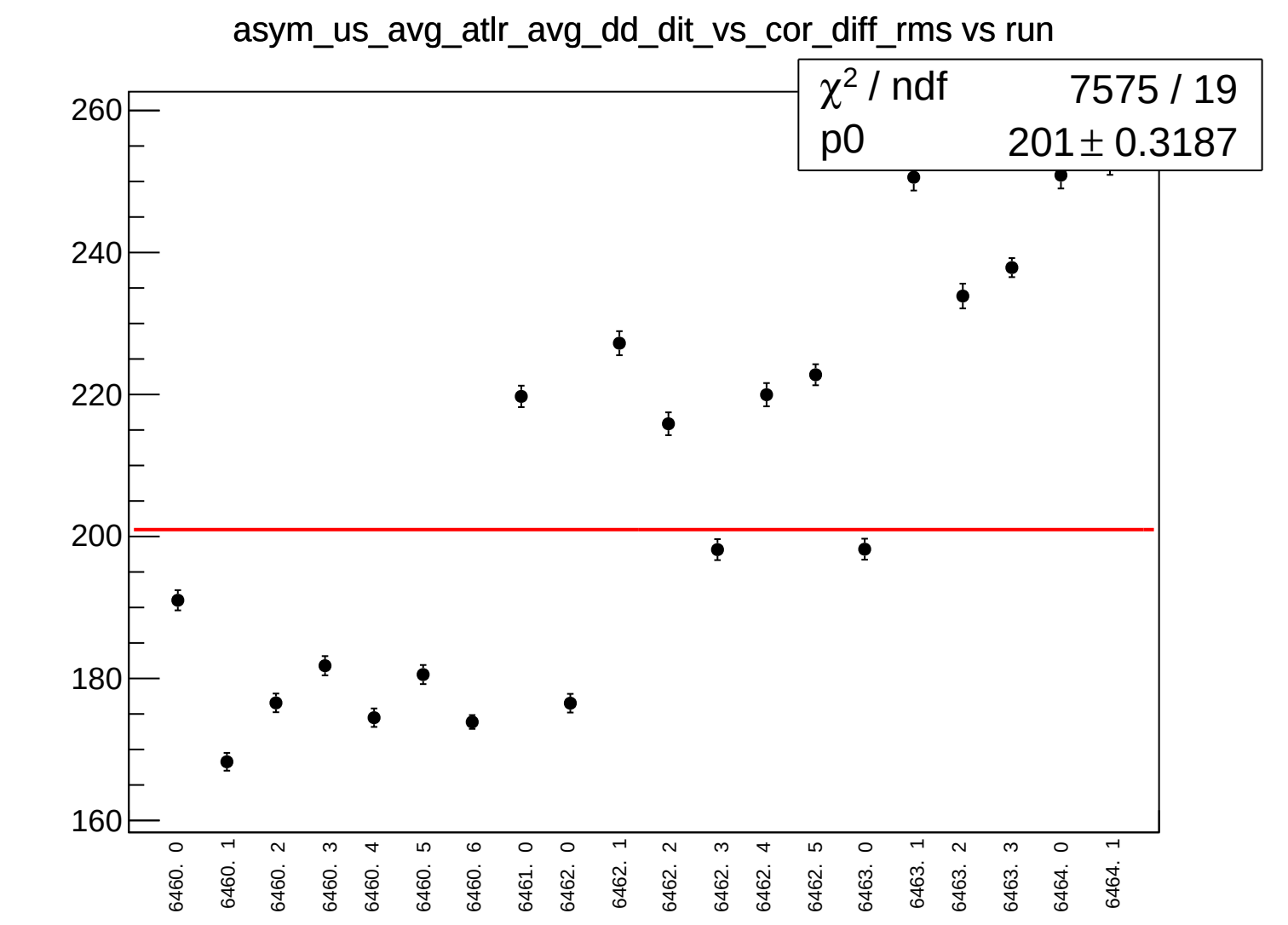

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 295.5 / 19
p0 3348 ± 5.262
3550
3500
3450
3400
3350
3300
3250
3200
3150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

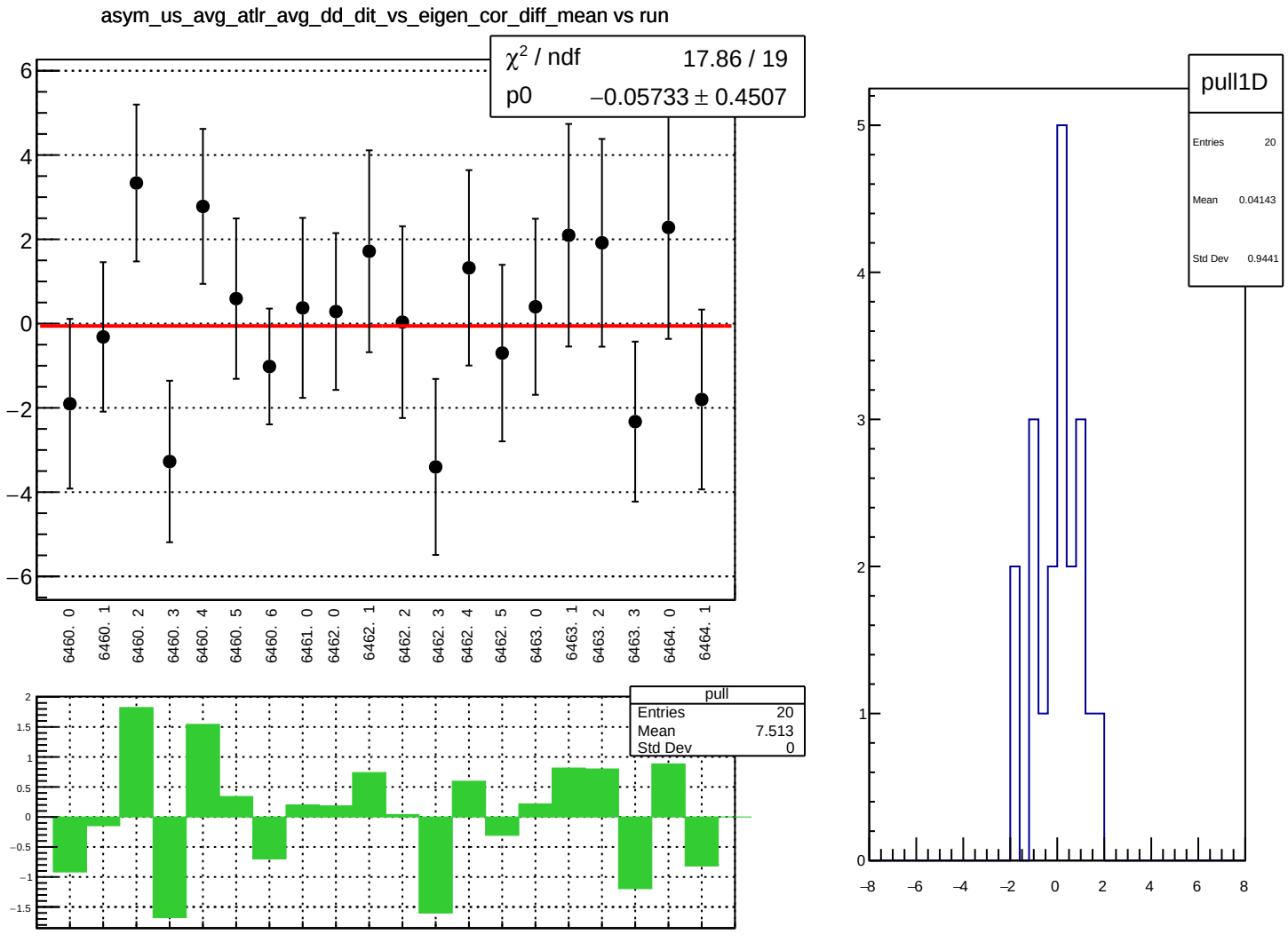

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.58 / 19
p0 −1.6e−13 ± 3.085e−13
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.428
Std Dev 6.358
2
1.5
1
0.5
0
−0.5
−1
−1.5

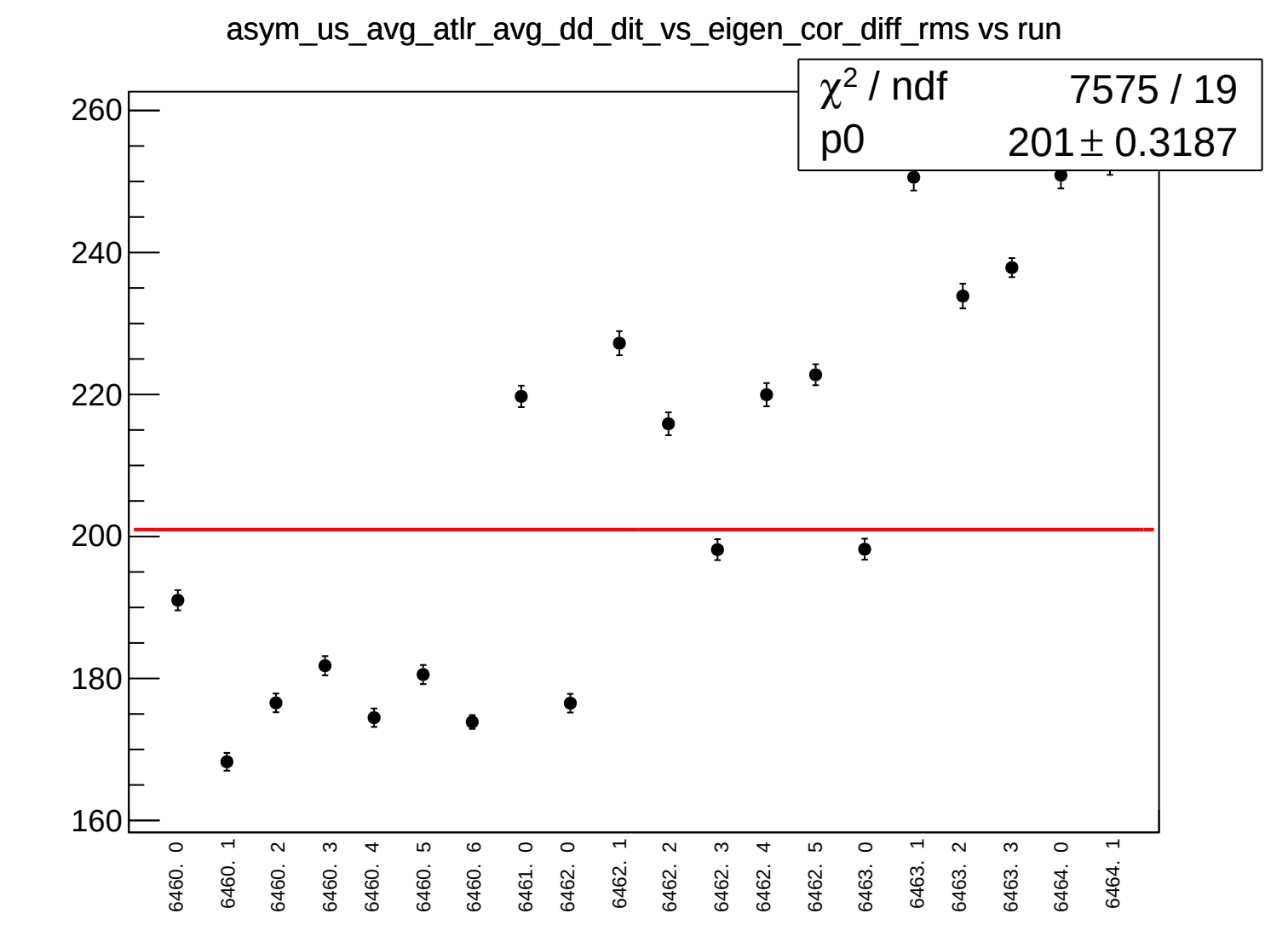

pull1D
Entries 20
Mean 0.2062
Std Dev 1.018
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

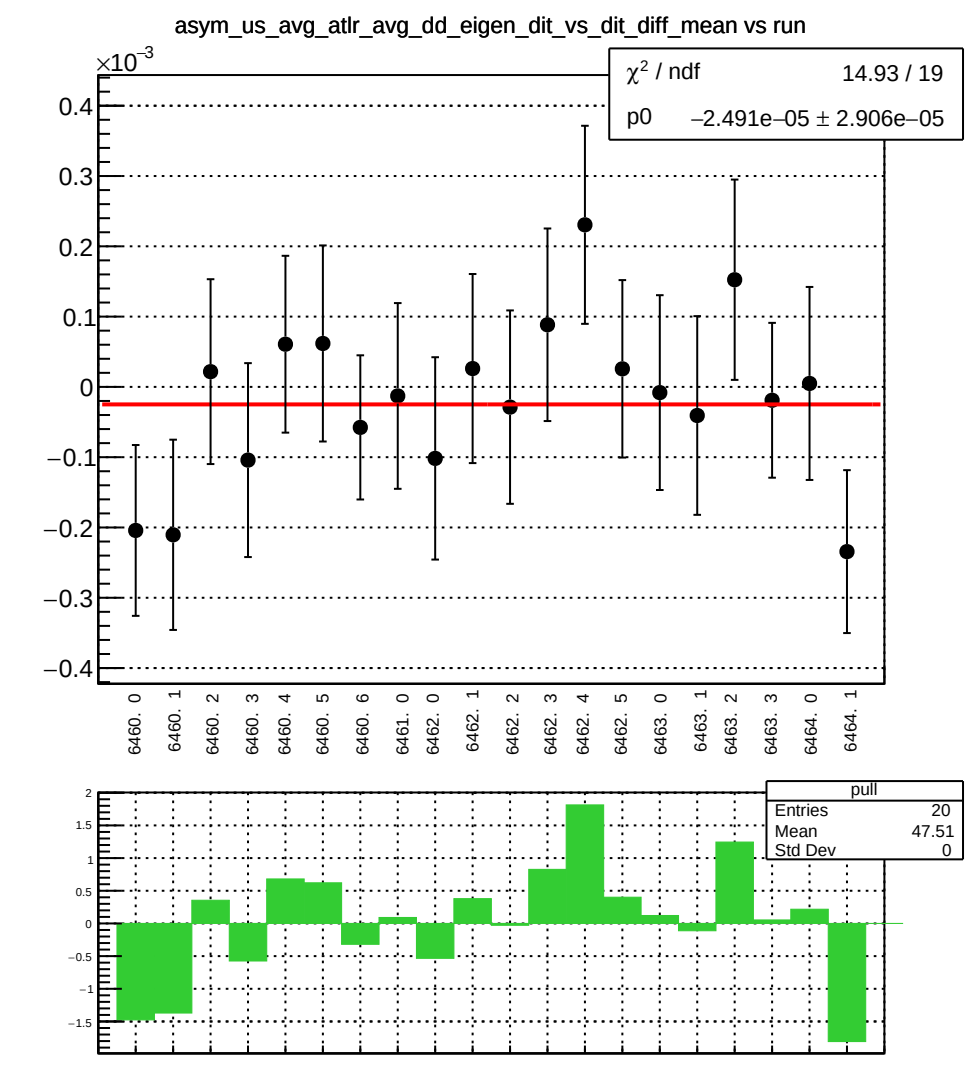

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.903e+05 / 19
p0 7.394e−11 ± 2.181e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

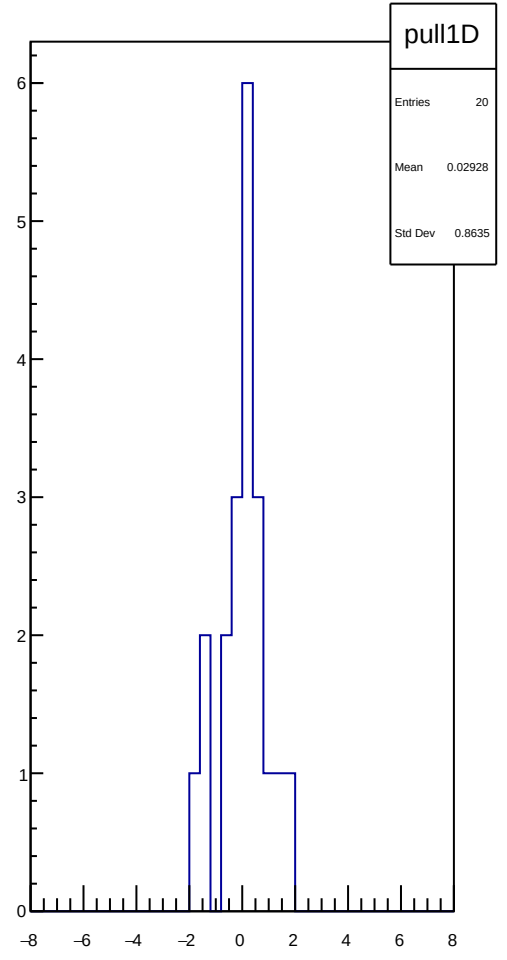

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 17.86 / 19
p0 −0.05733 ± 0.4507
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.513
Std Dev 0
pull1D
Entries 20
Mean 0.04143
Std Dev 0.9441

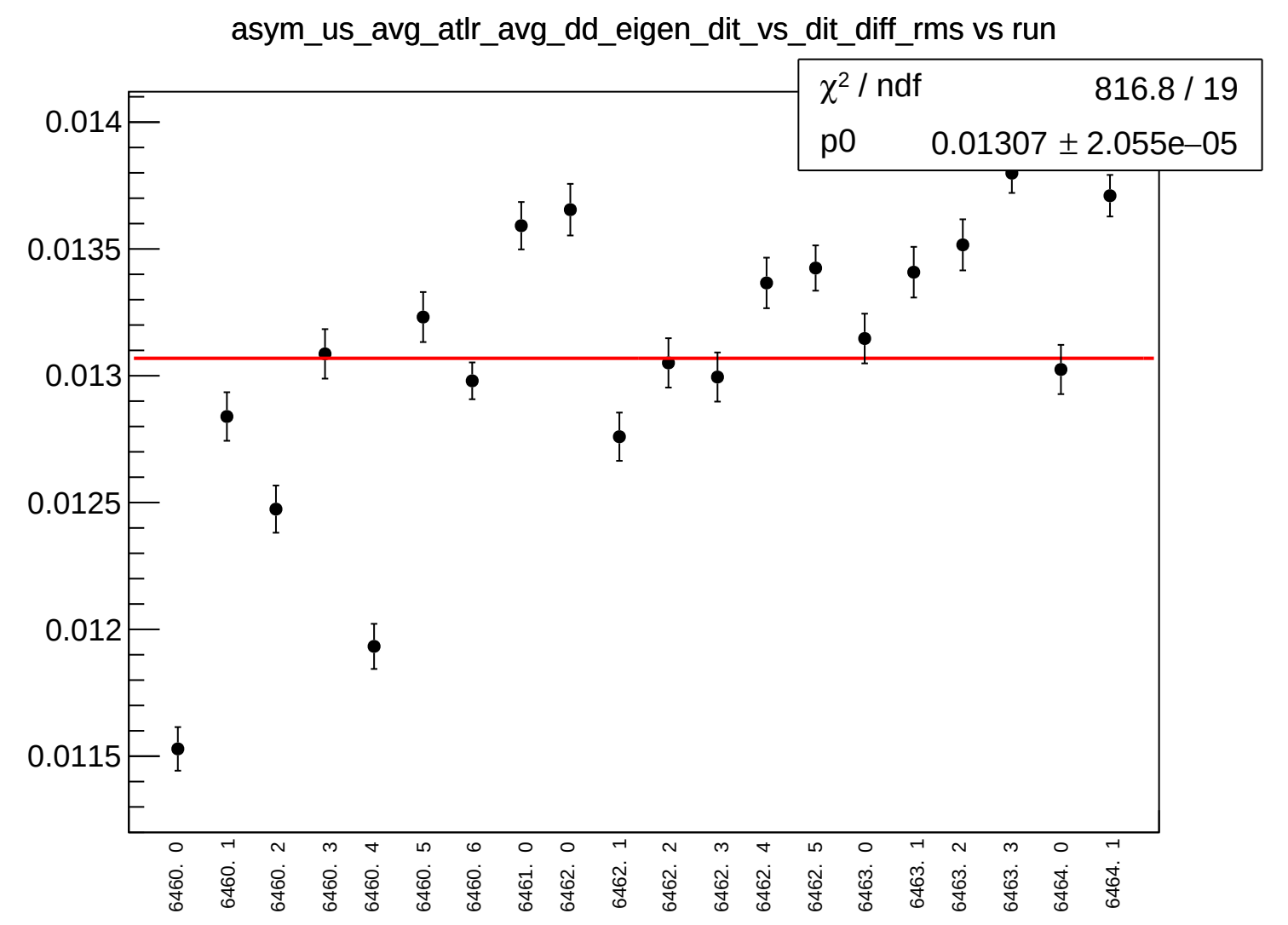

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7575 / 19
p0 201 ± 0.3187
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

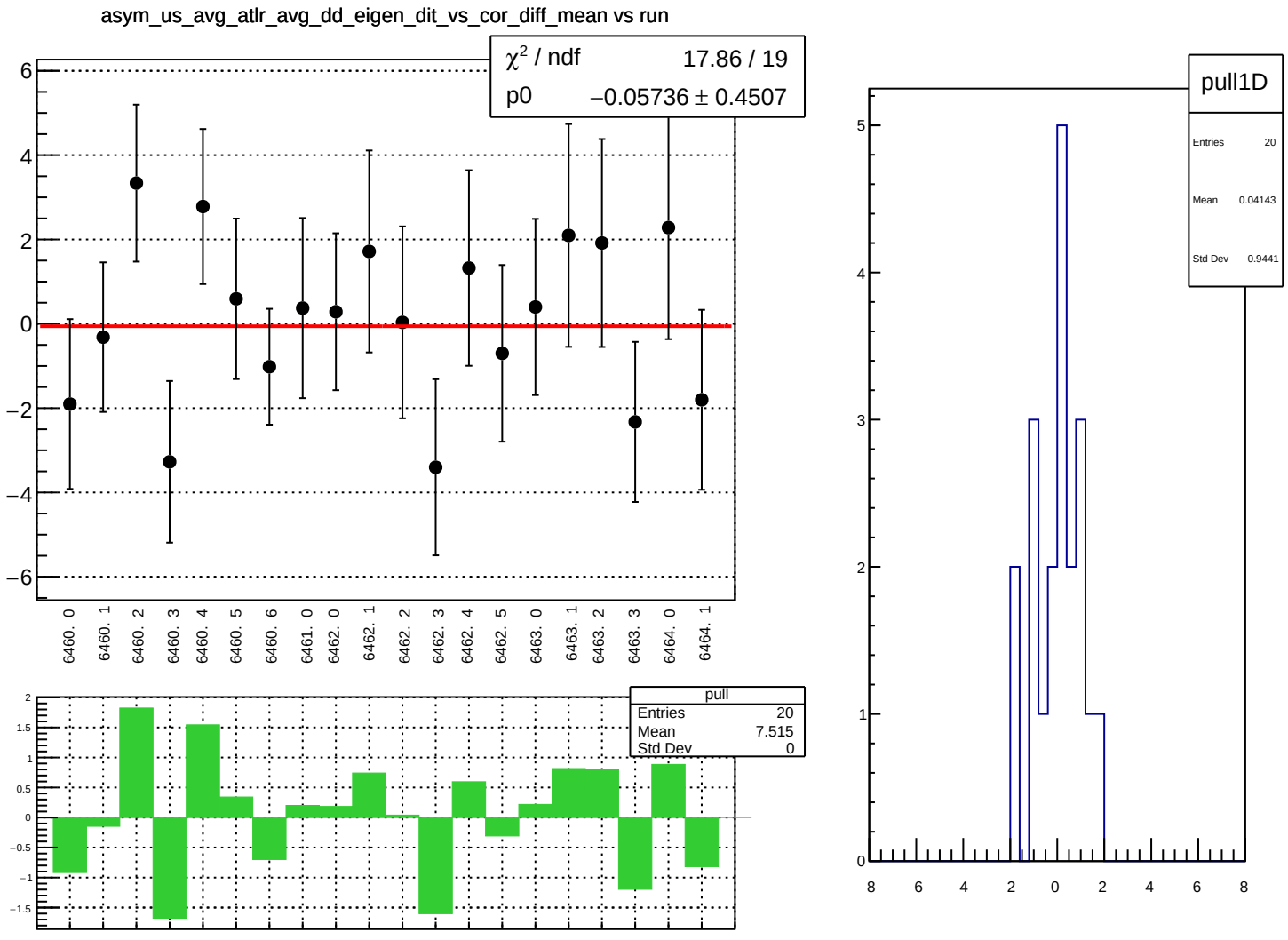

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.86 / 19
p0 −0.05733 ± 0.4507
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.513
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.04143
Std Dev 0.9441
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

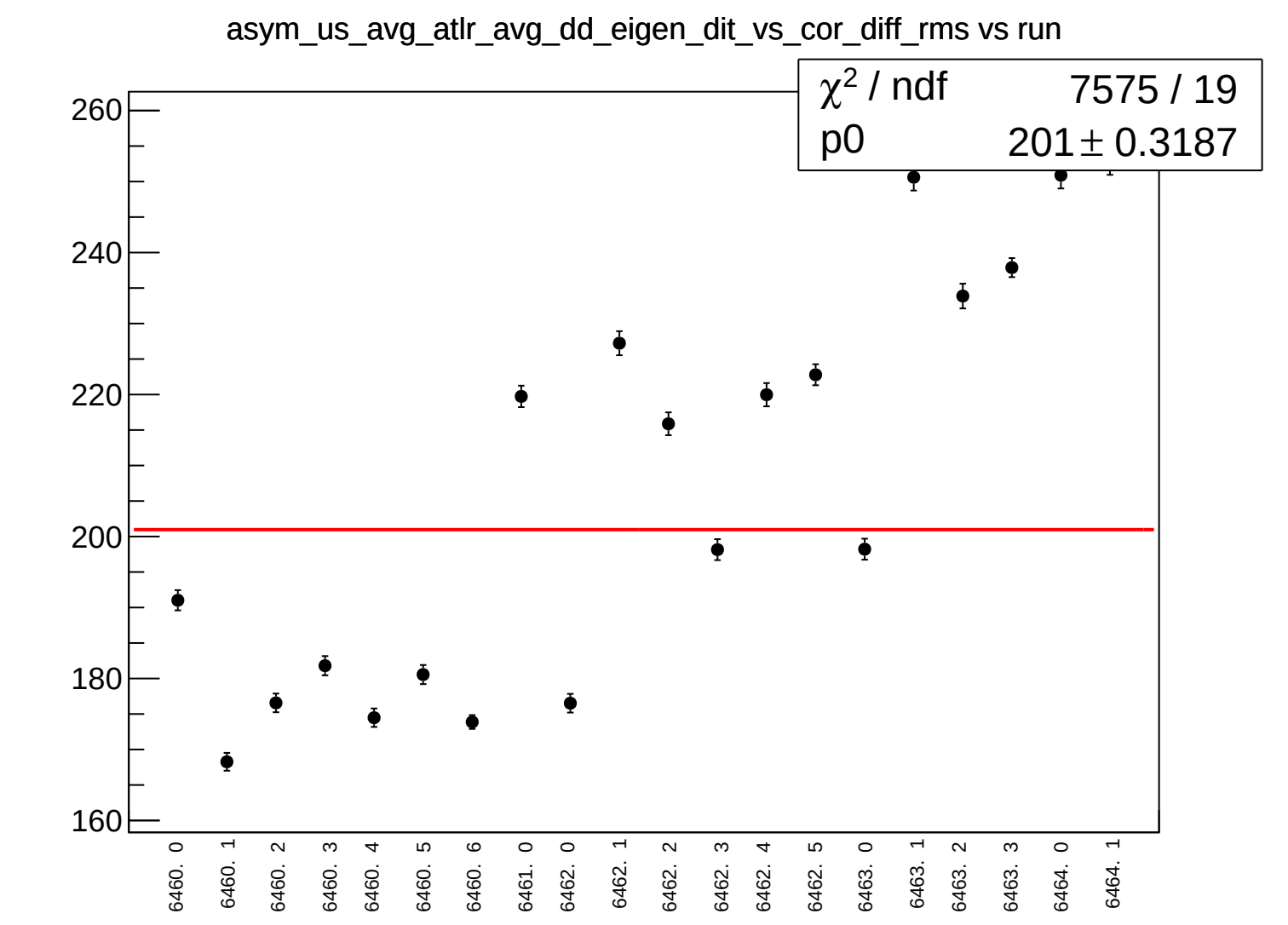

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7575 / 19
p0 201 ± 0.3187
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

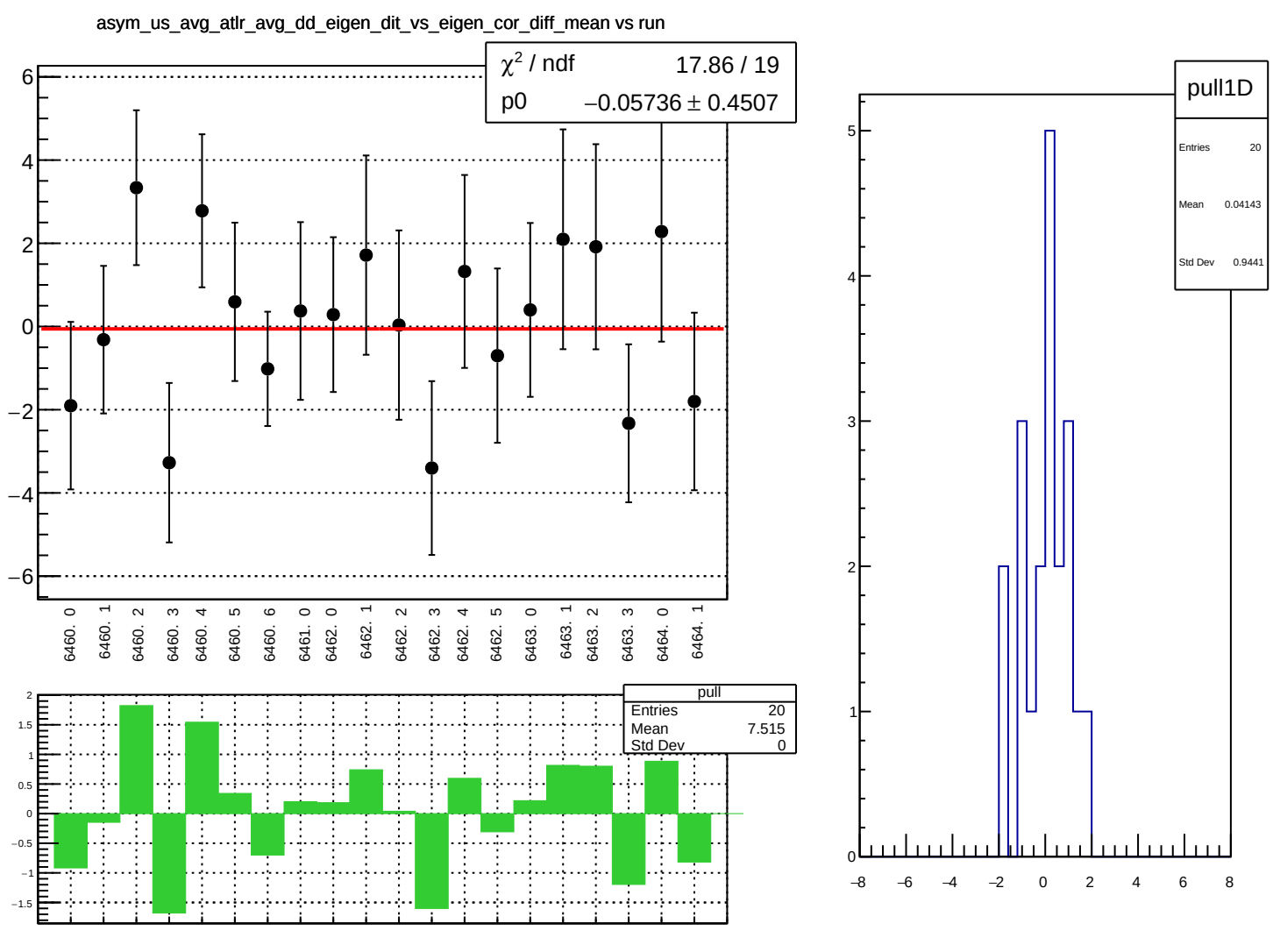

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 14.93 / 19
p0 −2.491e−05 ± 2.906e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 47.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

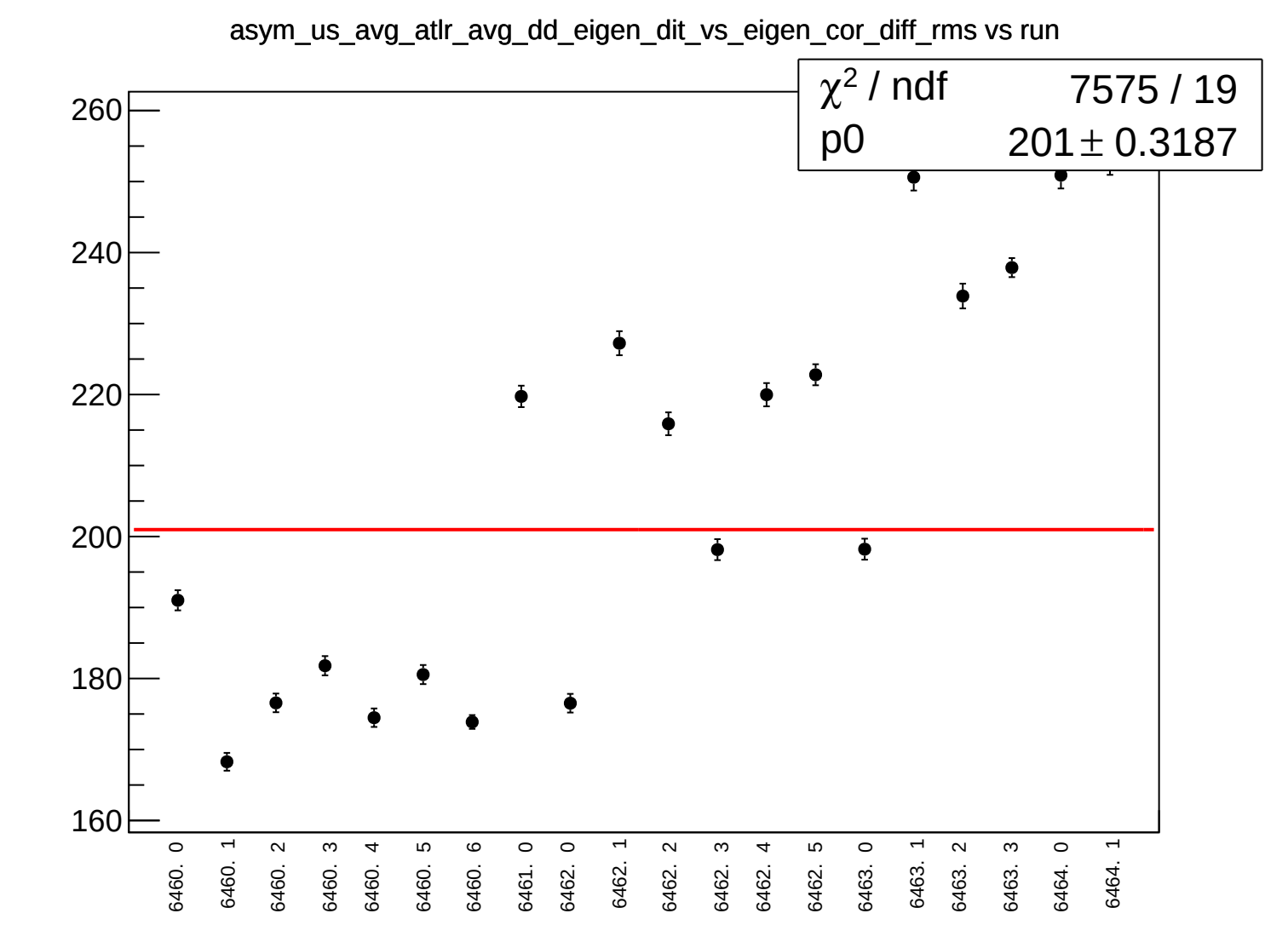

pull1D
Entries 20
Mean 0.02928
Std Dev 0.8635
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

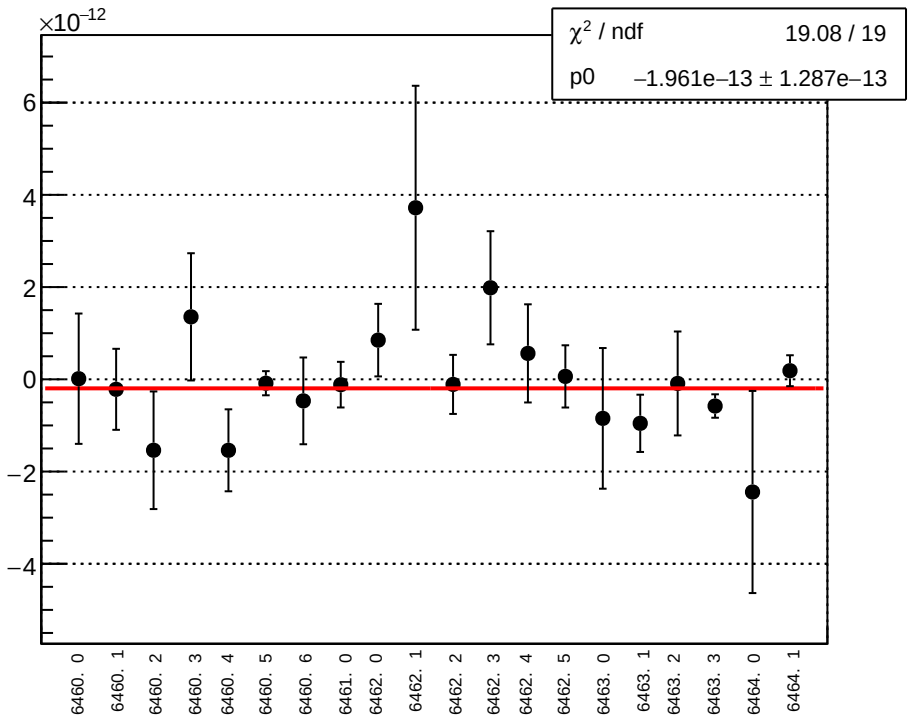

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 816.8 / 19
p0 0.01307 ± 2.055e−05
0.014
0.0135
0.013
0.0125
0.012
0.0115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

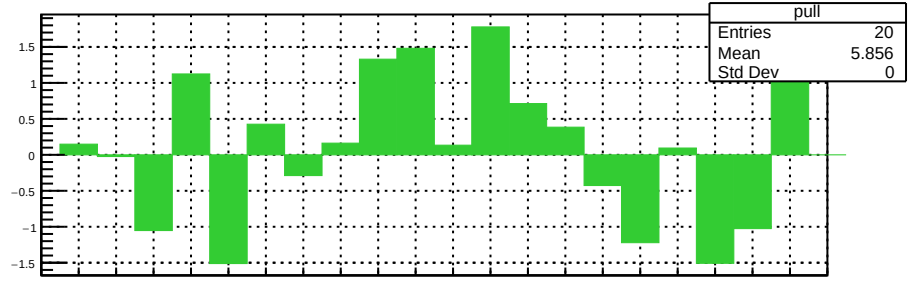

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.86 / 19
p0 −0.05736 ± 0.4507
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.515
Std Dev 0
pull1D
Entries 20
Mean 0.04143
Std Dev 0.9441

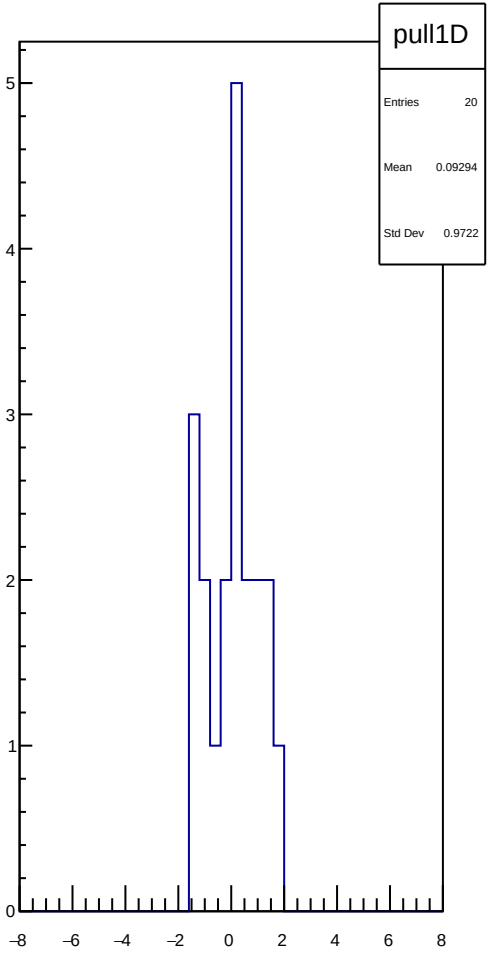

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7575 / 19
p0 201 ± 0.3187
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

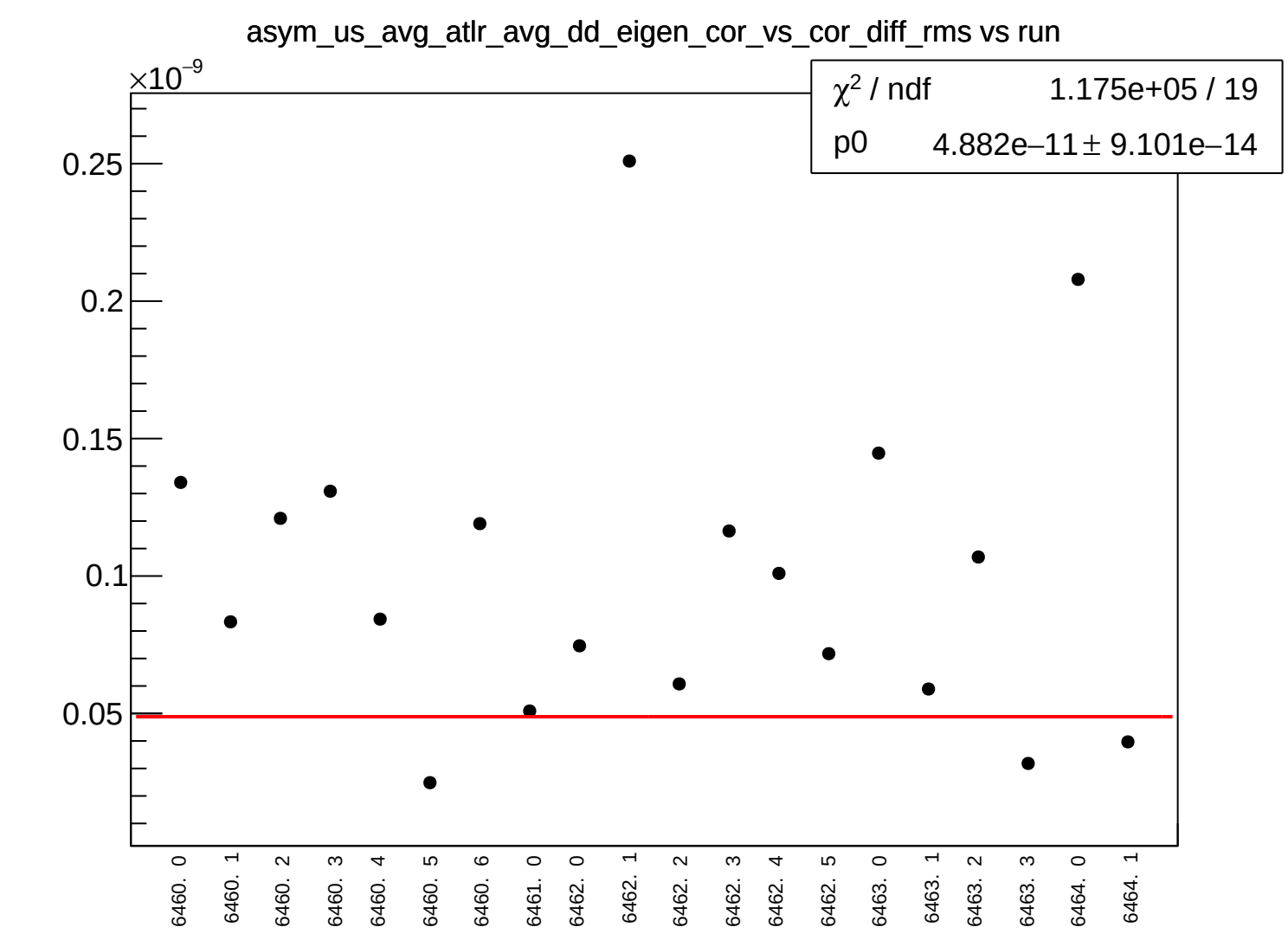

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.86 / 19
p0 −0.05736 ± 0.4507
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.515
Std Dev 0
pull1D
Entries 20
Mean 0.04143
Std Dev 0.9441

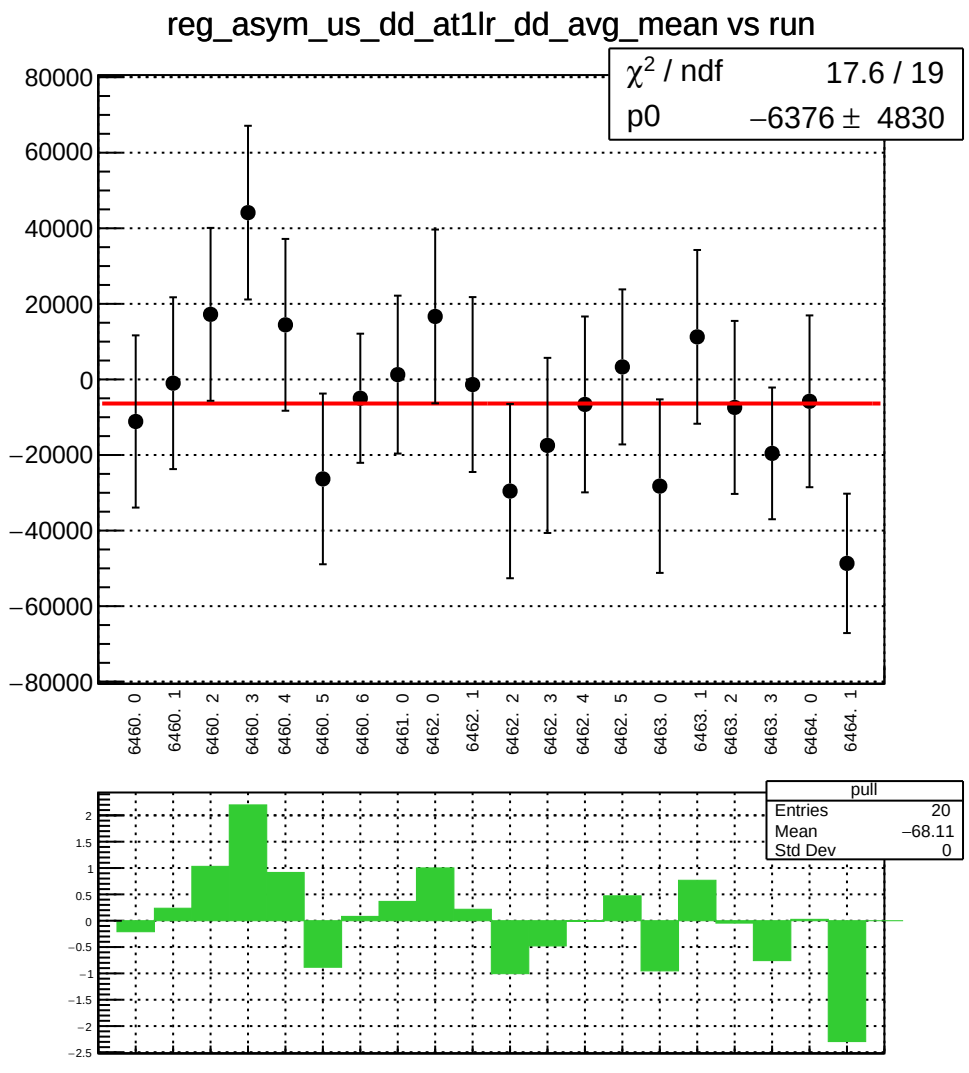

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7575 / 19
p0 201 ± 0.3187
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

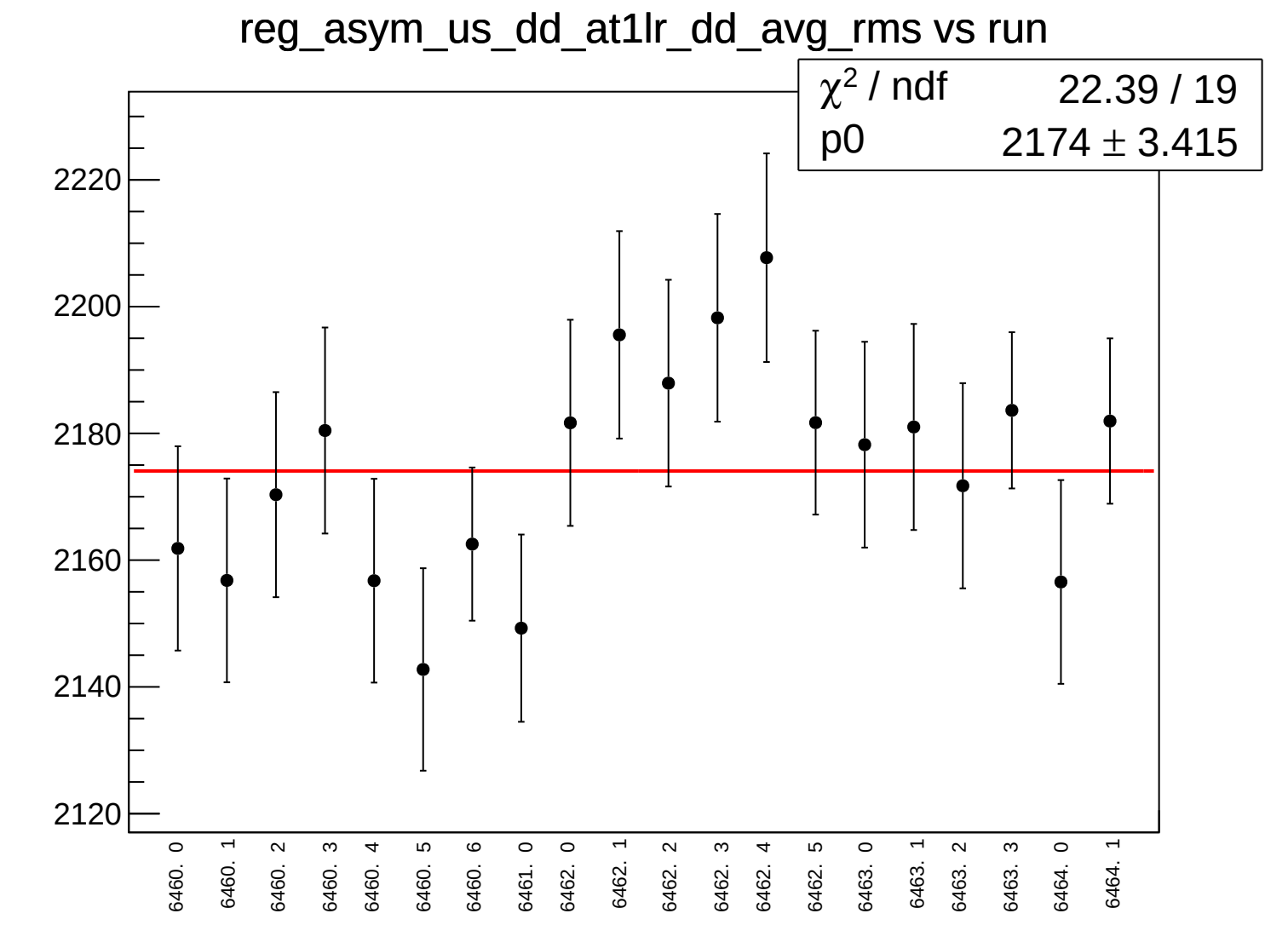

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 19.08 / 19
p0 −1.961e−13 ± 1.287e−13
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

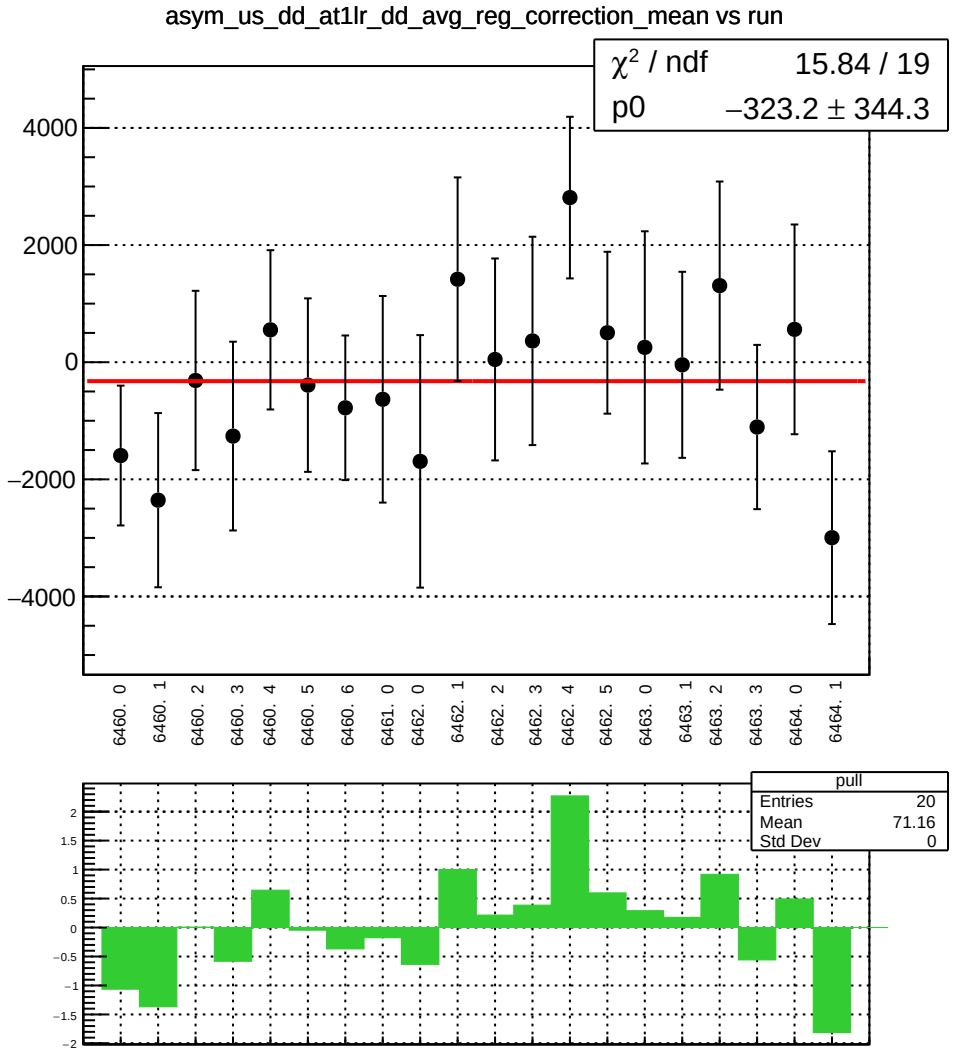

pull
Entries 20
Mean 5.856
Std Dev 0

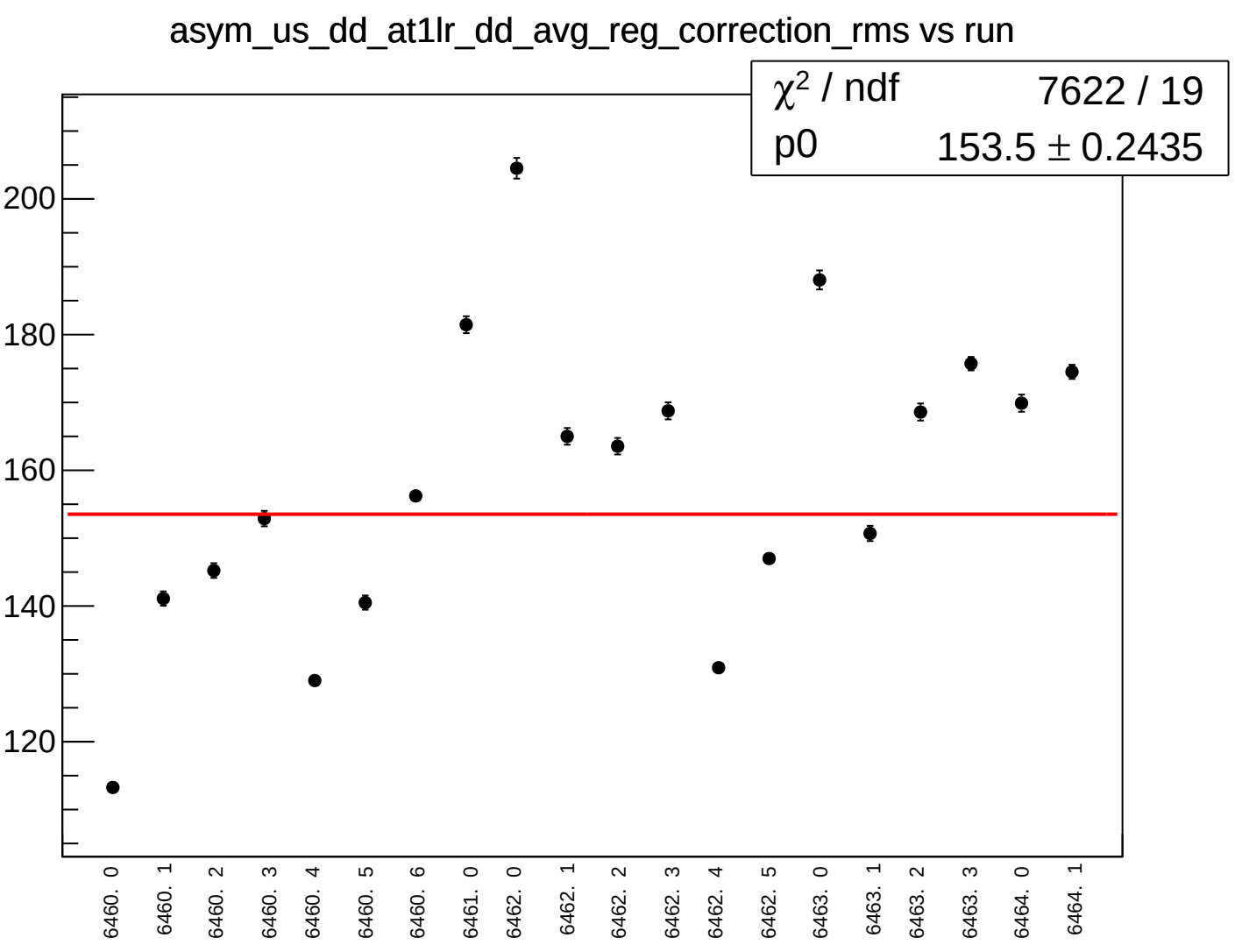

pull1D
Entries 20
Mean 0.09294
Std Dev 0.9722

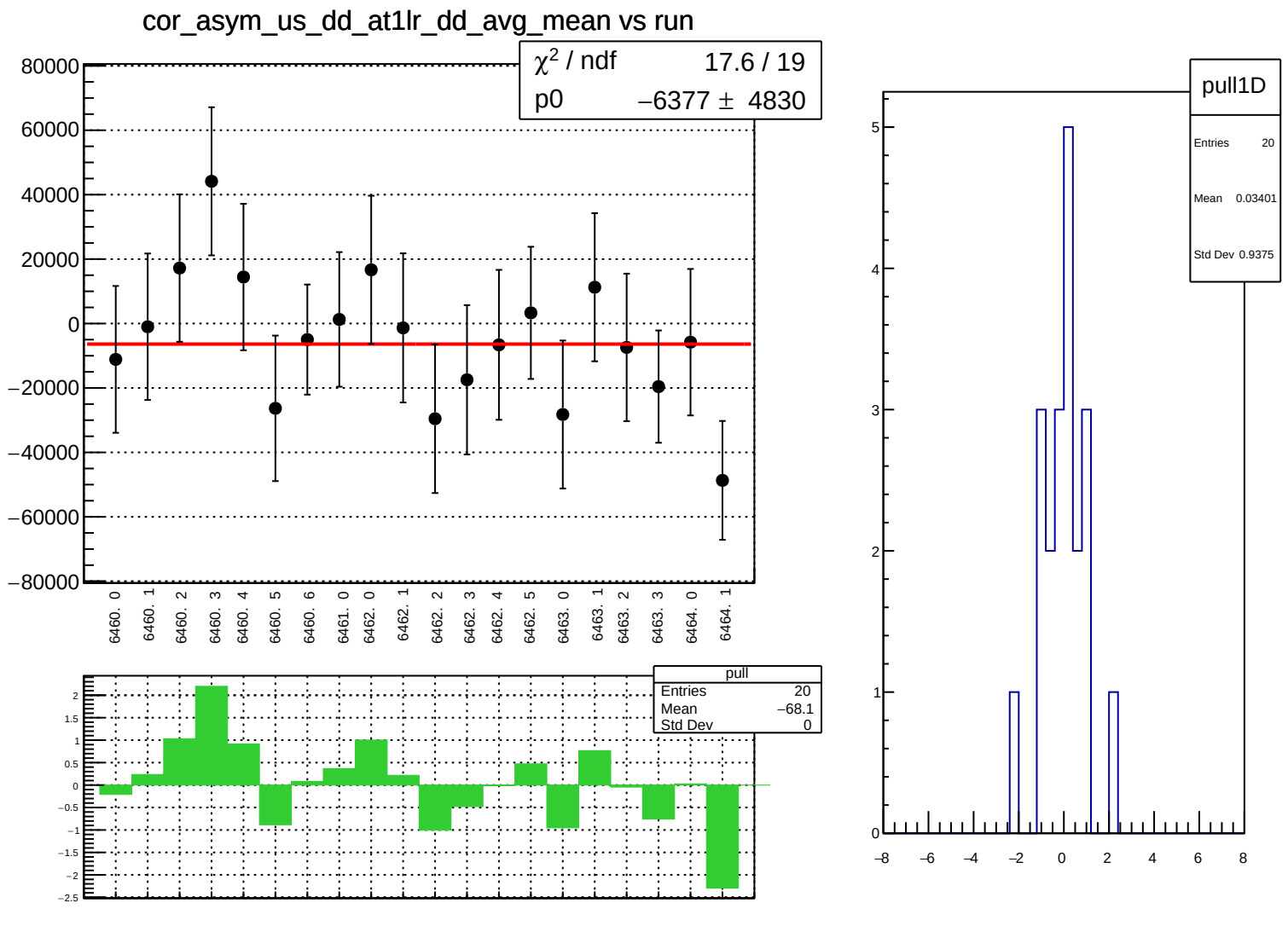

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.175e+05 / 19
p0 4.882e−11 ± 9.101e−14
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

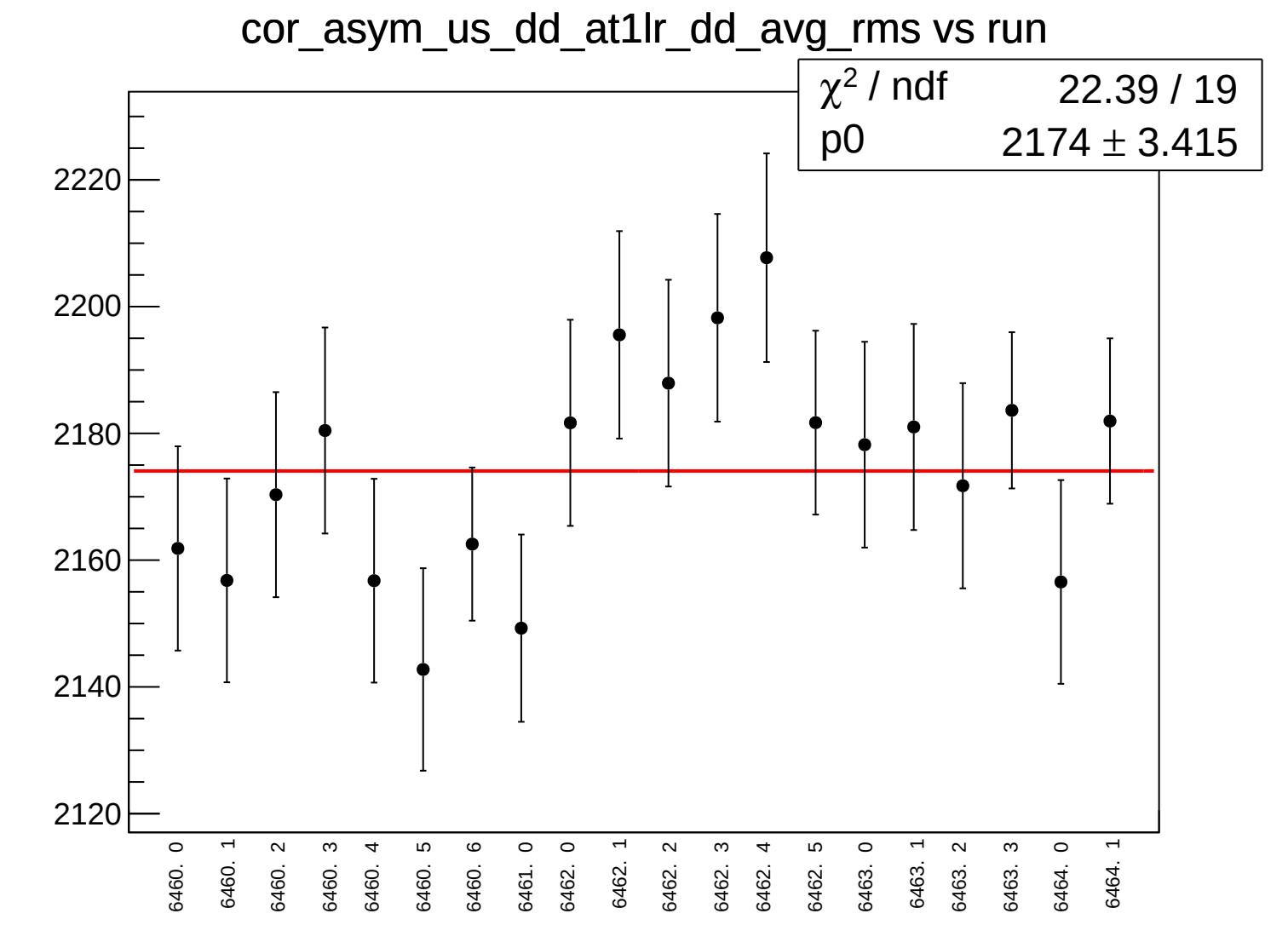

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 17.6 / 19
p0 −6376 ± 4830
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −68.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean 0.03401
Std Dev 0.9375
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

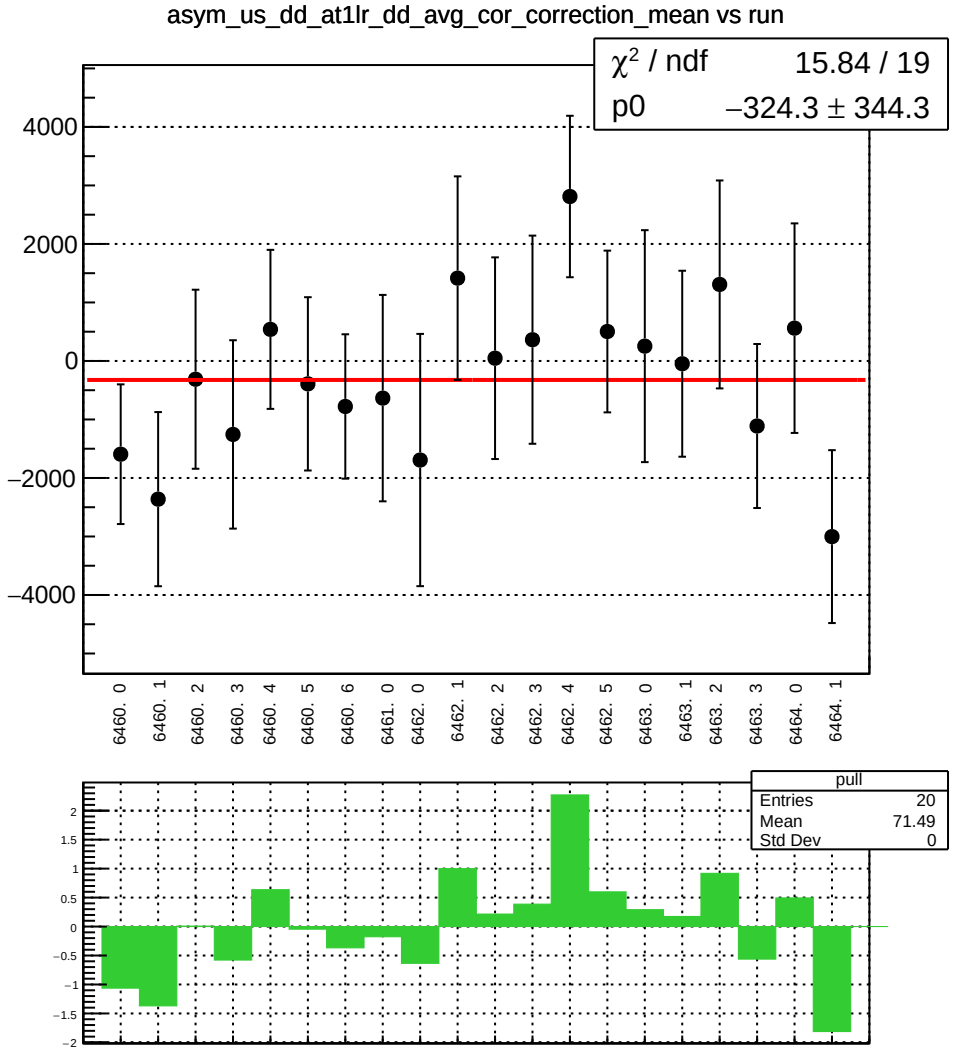

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 22.39 / 19
p0 2174 ± 3.415
2220
2200
2180
2160
2140
2120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

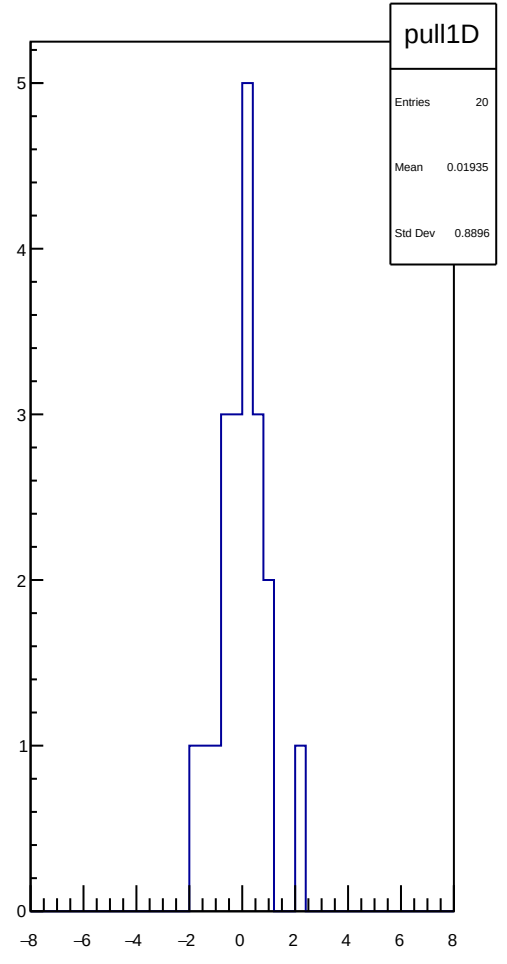

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 15.84 / 19
p0 −323.2 ± 344.3
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 71.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.01945
Std Dev 0.8896
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

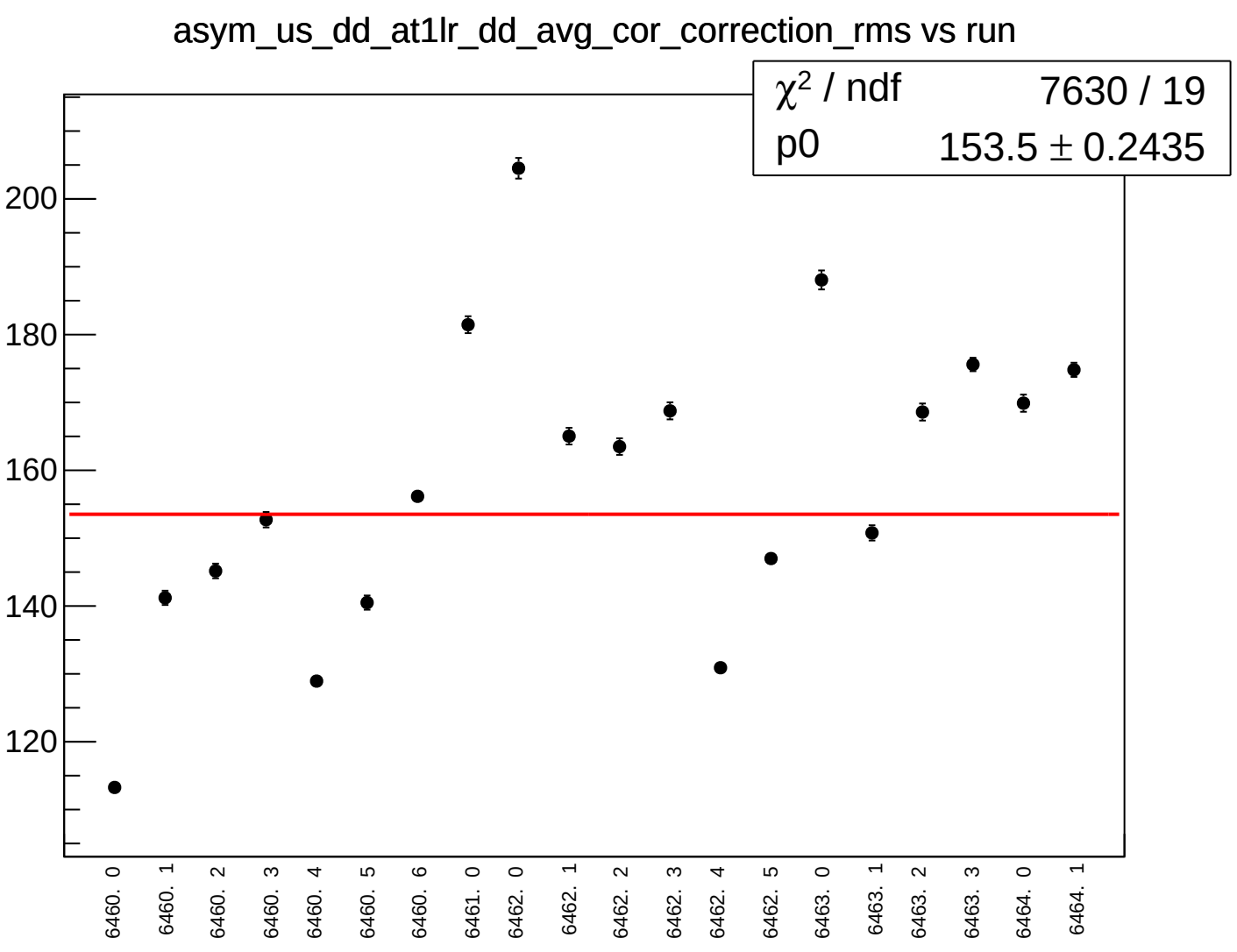

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7622 / 19
p0 153.5 ± 0.2435
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

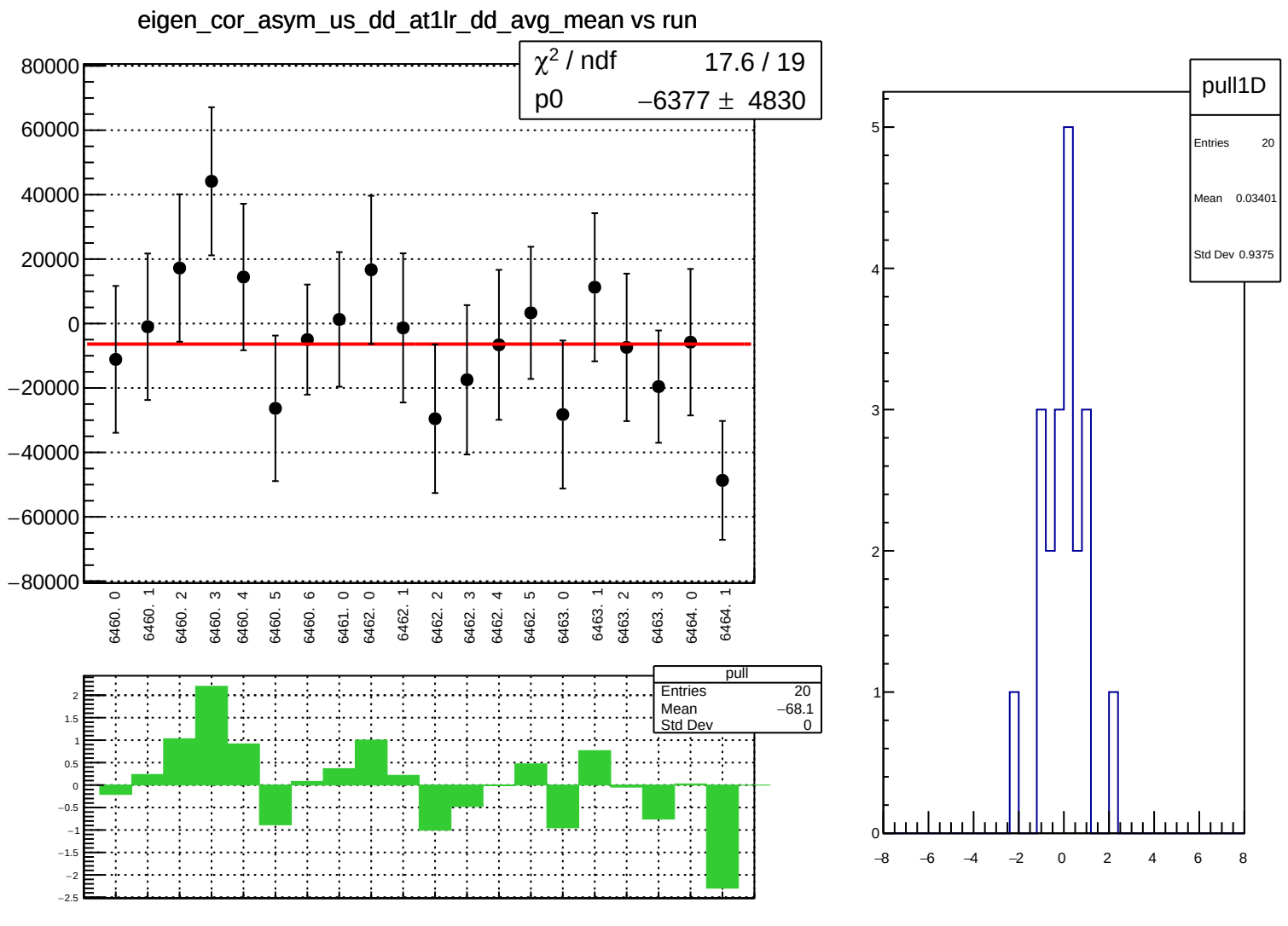

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 17.6 / 19
p0 −6377 ± 4830
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −68.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean 0.03401
Std Dev 0.9375
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

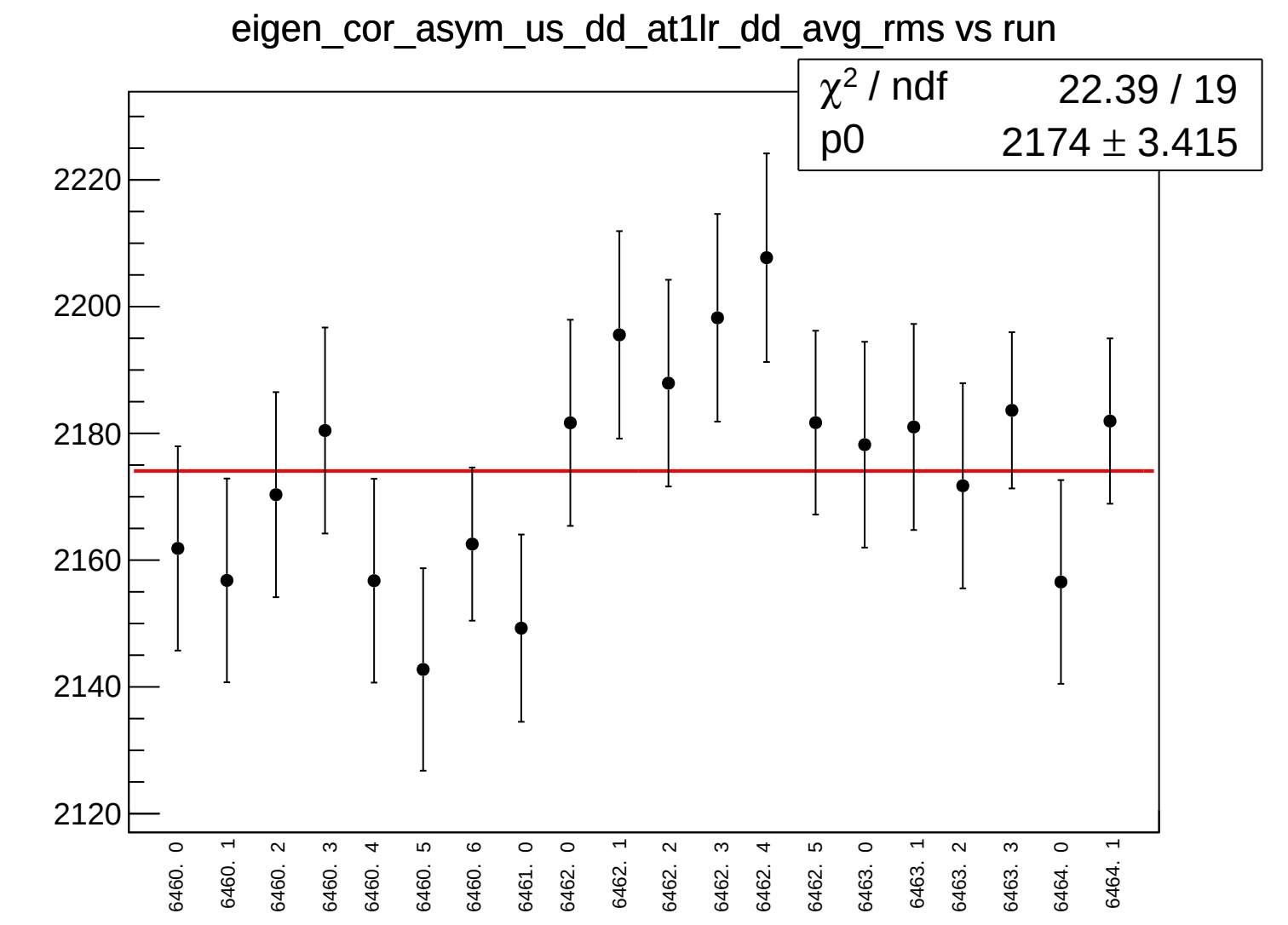

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 22.39 / 19
p0 2174 ± 3.415
2220
2200
2180
2160
2140
2120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

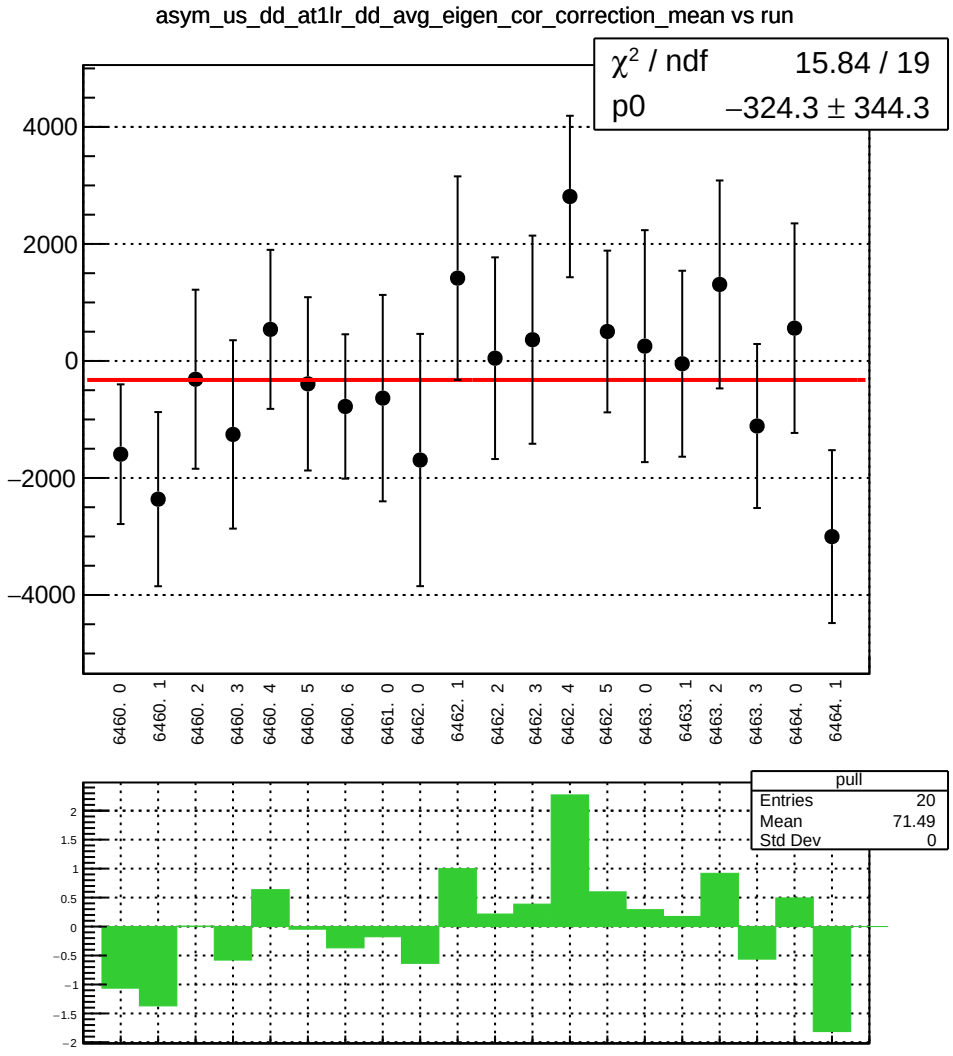

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 15.84 / 19
p0 −324.3 ± 344.3
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 71.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

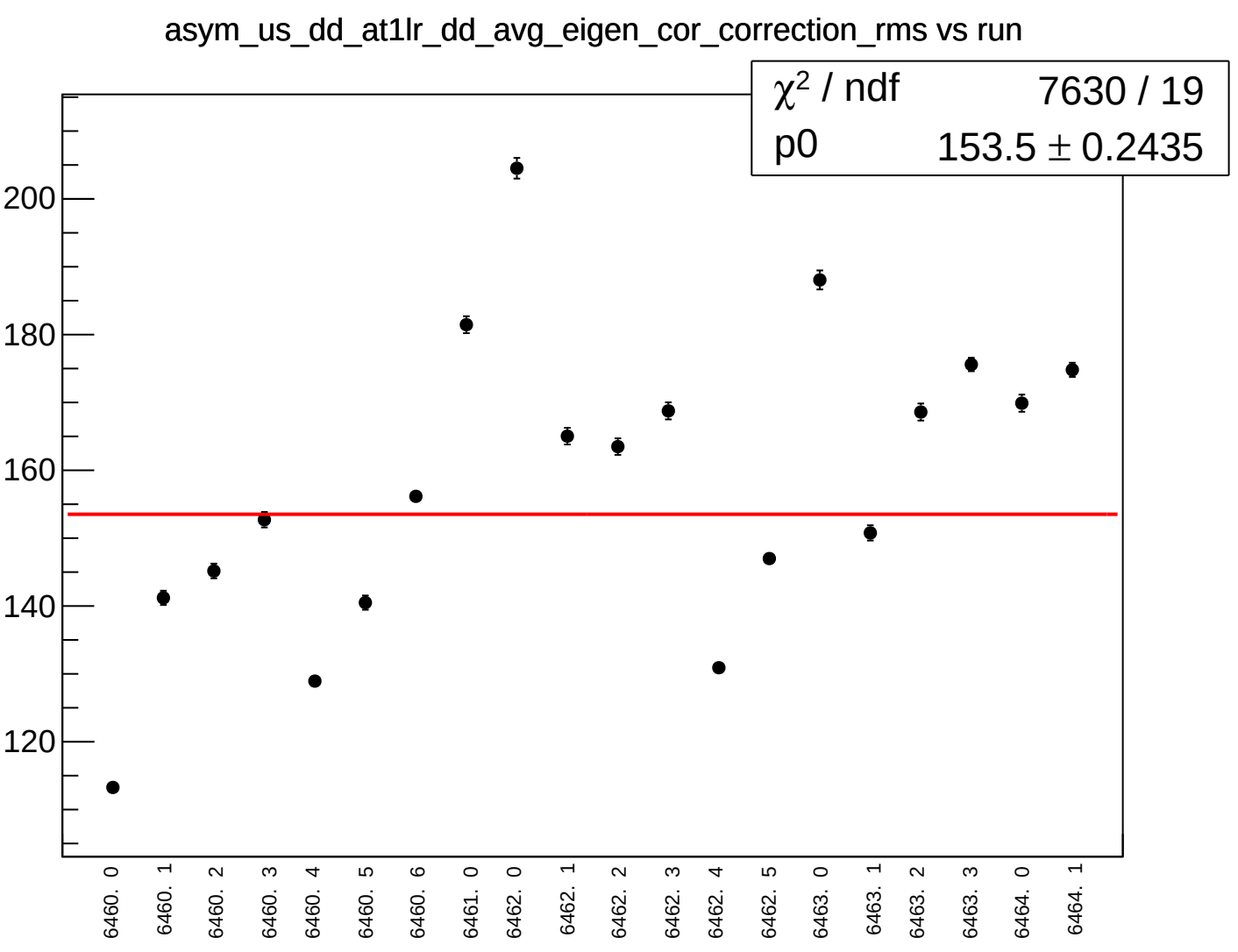

pull1D
Entries 20
Mean 0.01935
Std Dev 0.8896
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

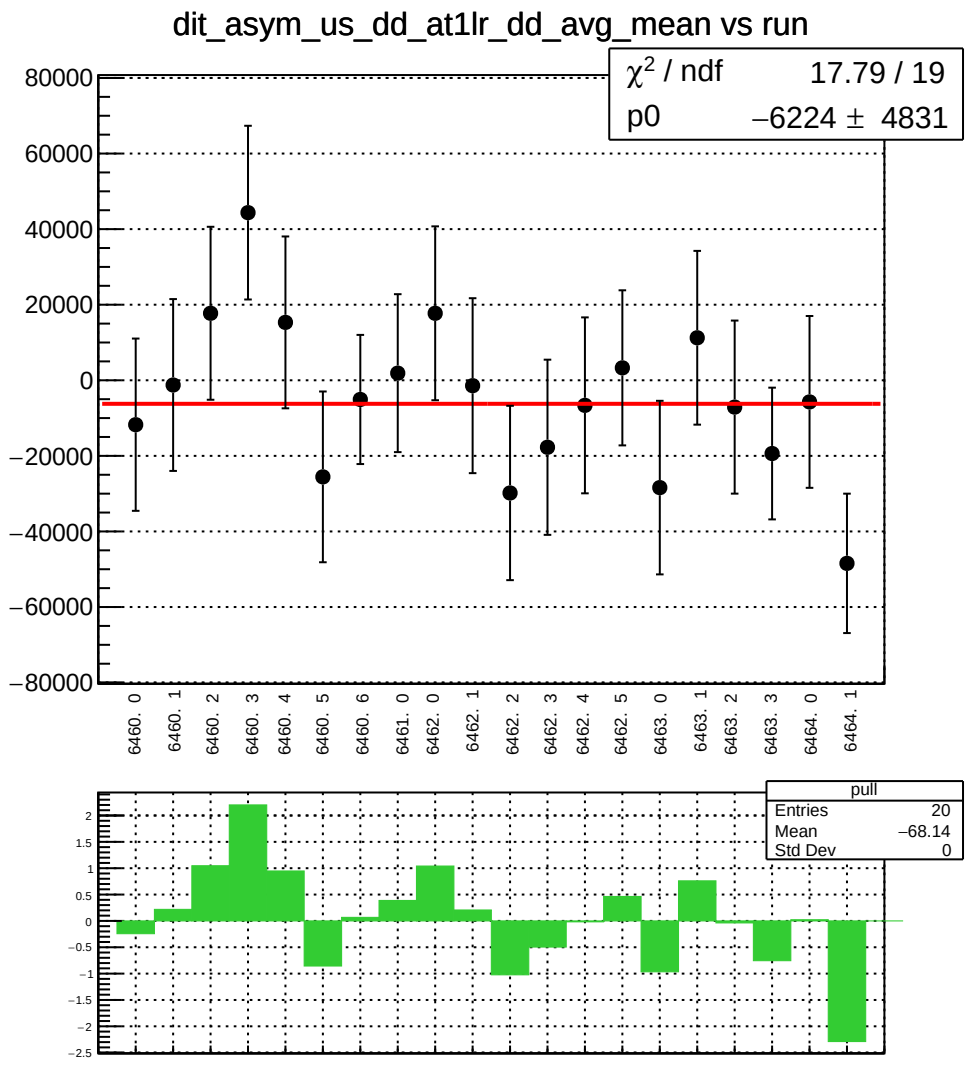

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 7630 / 19
p0 153.5 ± 0.2435
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

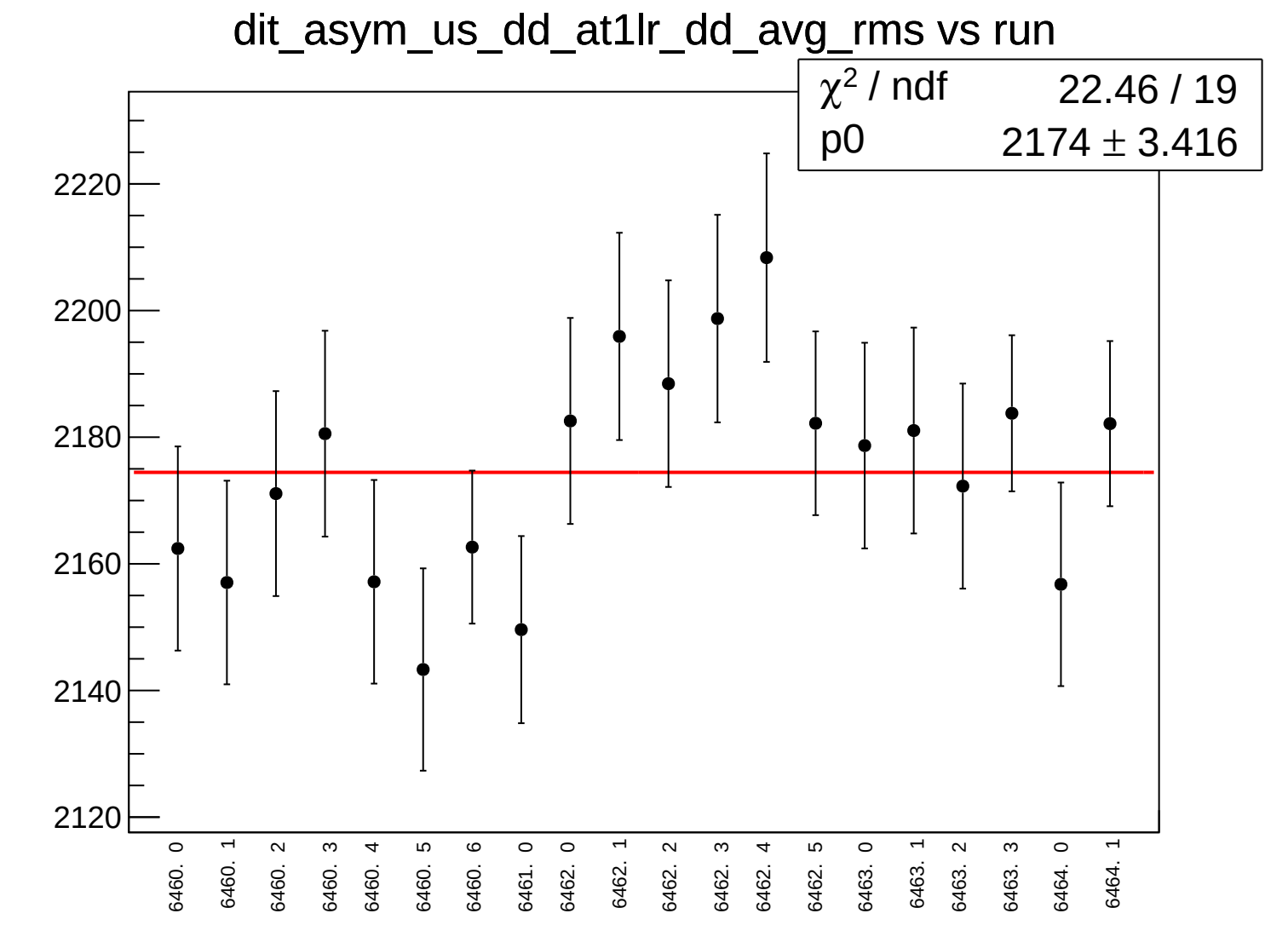

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 17.6 / 19
p0 −6377 ± 4830
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −68.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean 0.03401
Std Dev 0.9375
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

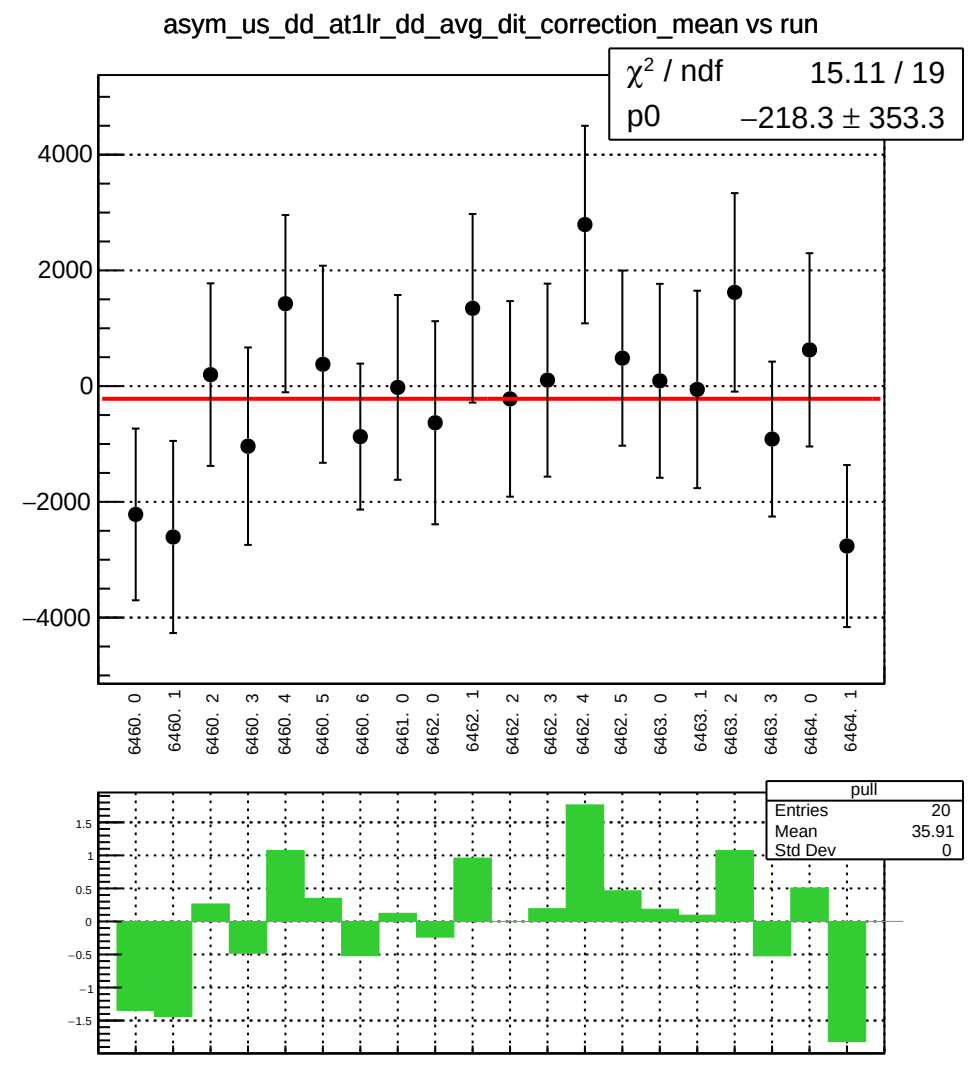

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 22.39 / 19
p0 2174 ± 3.415
2220
2200
2180
2160
2140
2120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

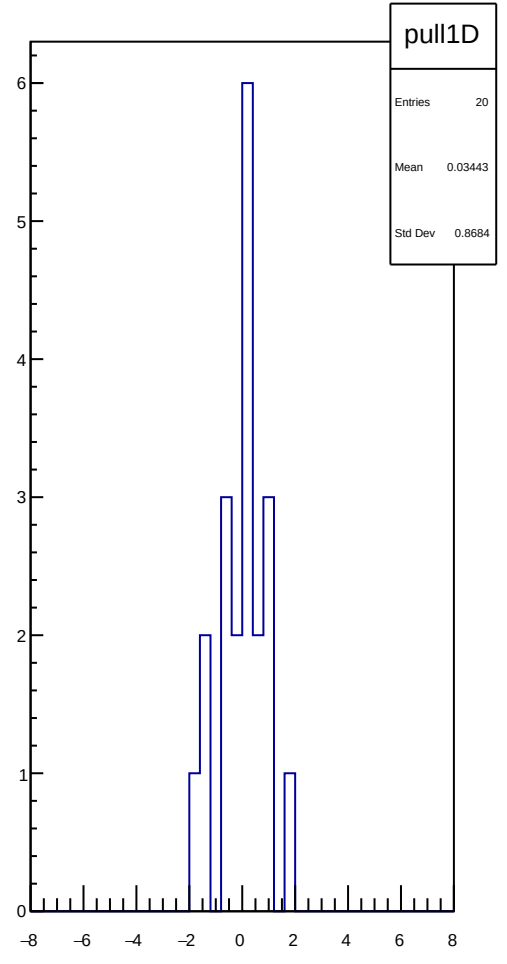

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 15.84 / 19
p0 −324.3 ± 344.3
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 71.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.01935
Std Dev 0.8896
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

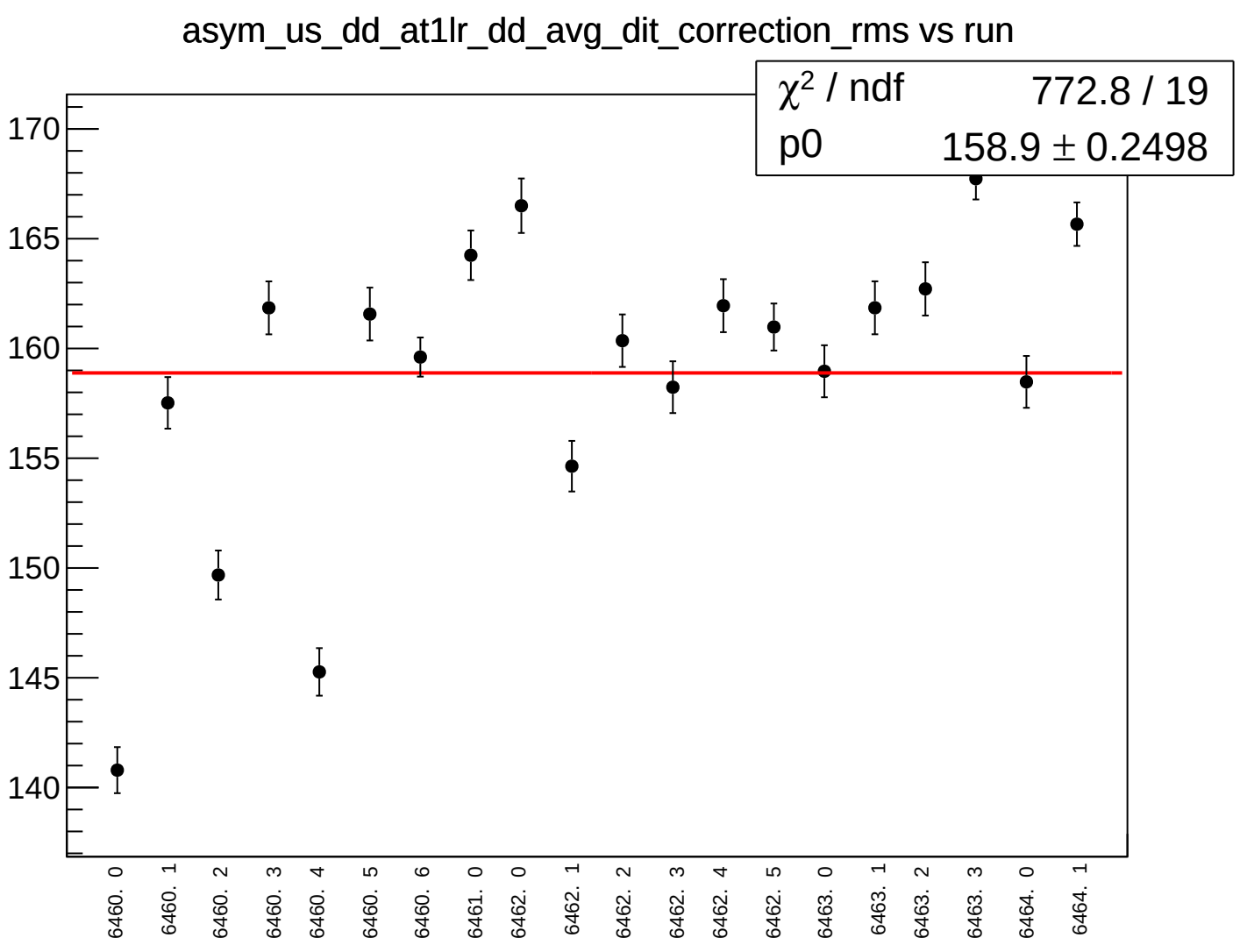

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7630 / 19
p0 153.5 ± 0.2435
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

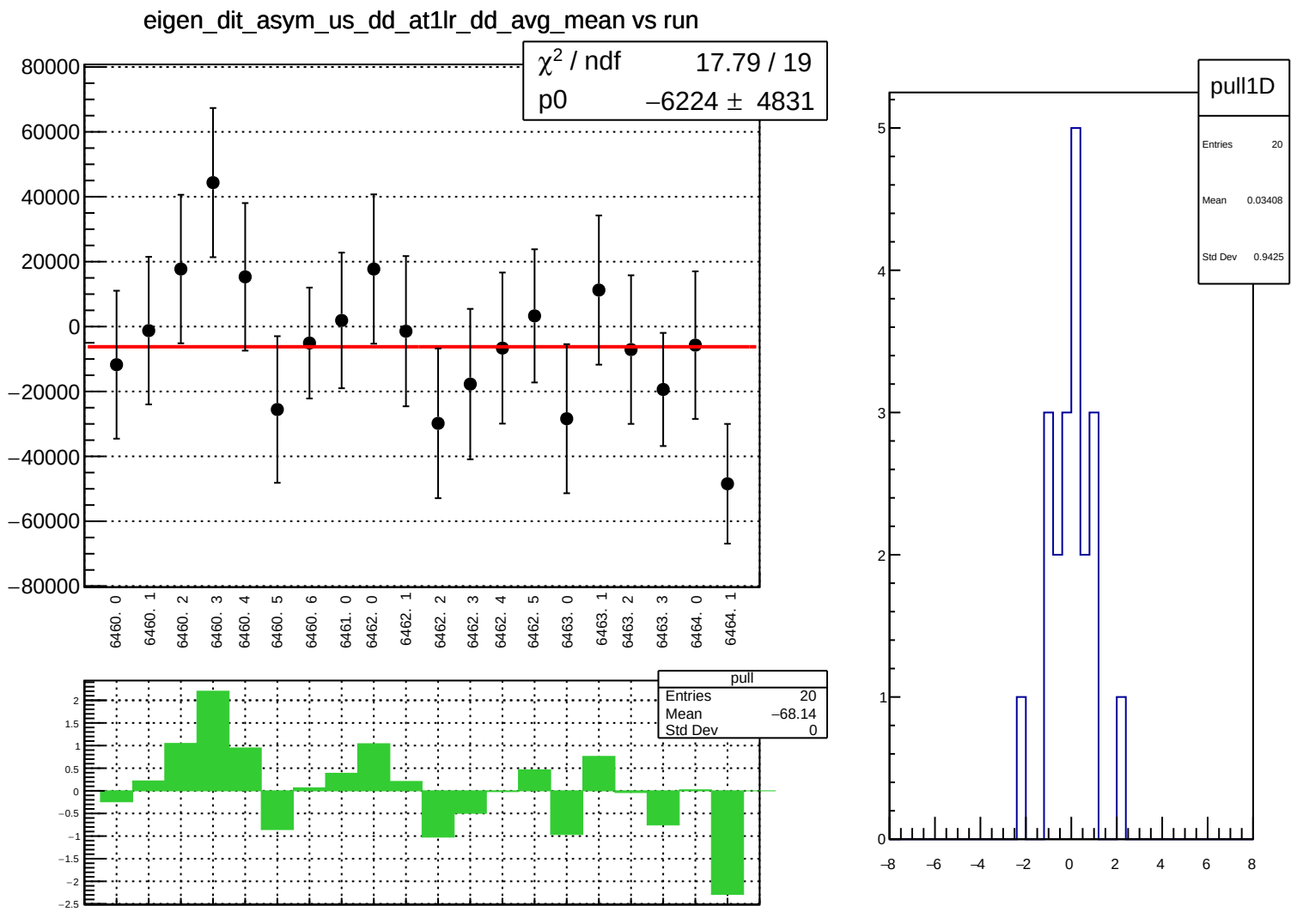

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 17.79 / 19
p0 −6224 ± 4831
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −68.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean 0.03408
Std Dev 0.9425
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

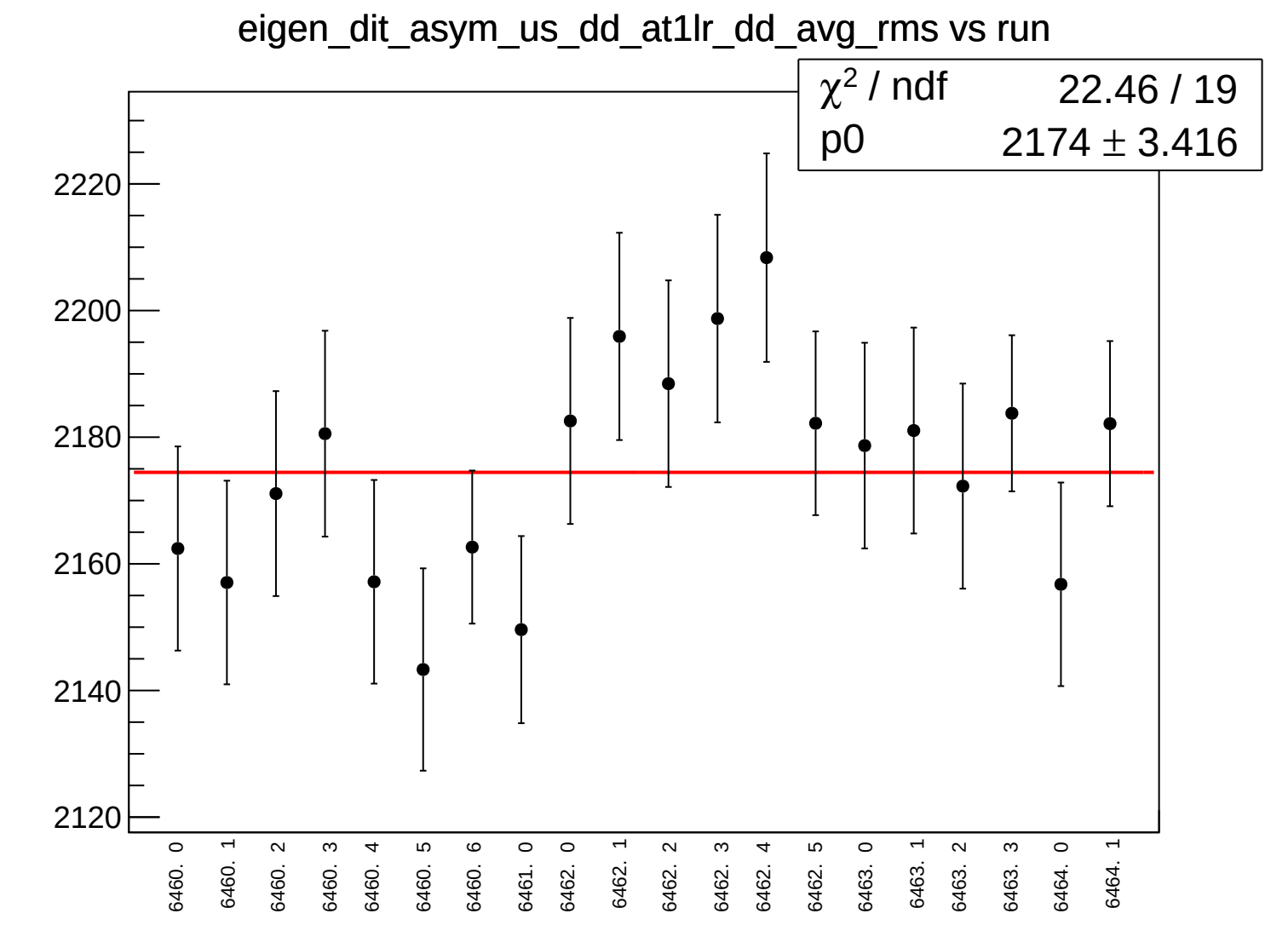

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 22.46 / 19
p0 2174 ± 3.416
2220
2200
2180
2160
2140
2120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

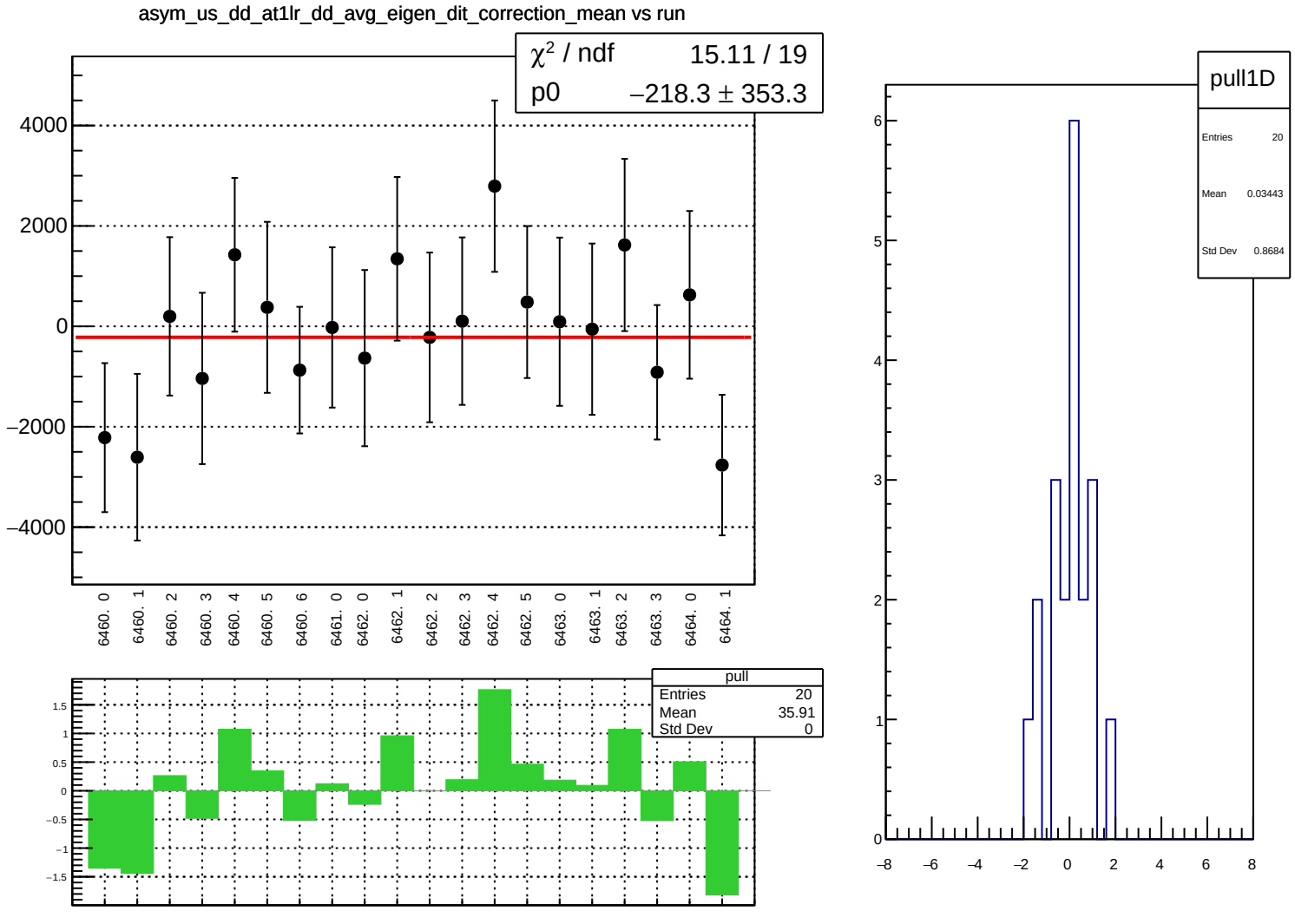

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 15.11 / 19
p0 −218.3 ± 353.3
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 35.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

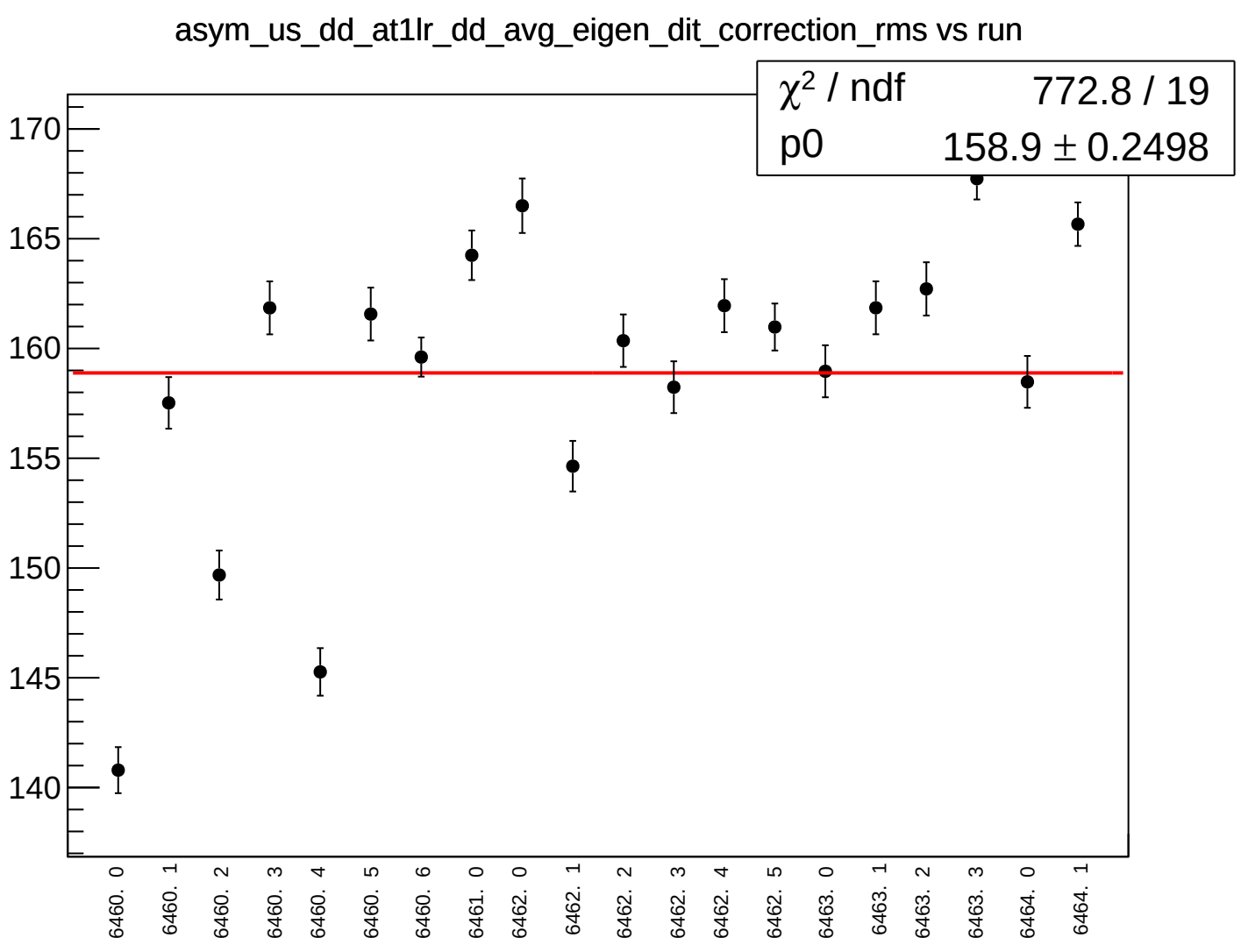

pull1D
Entries 20
Mean 0.03443
Std Dev 0.8684
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

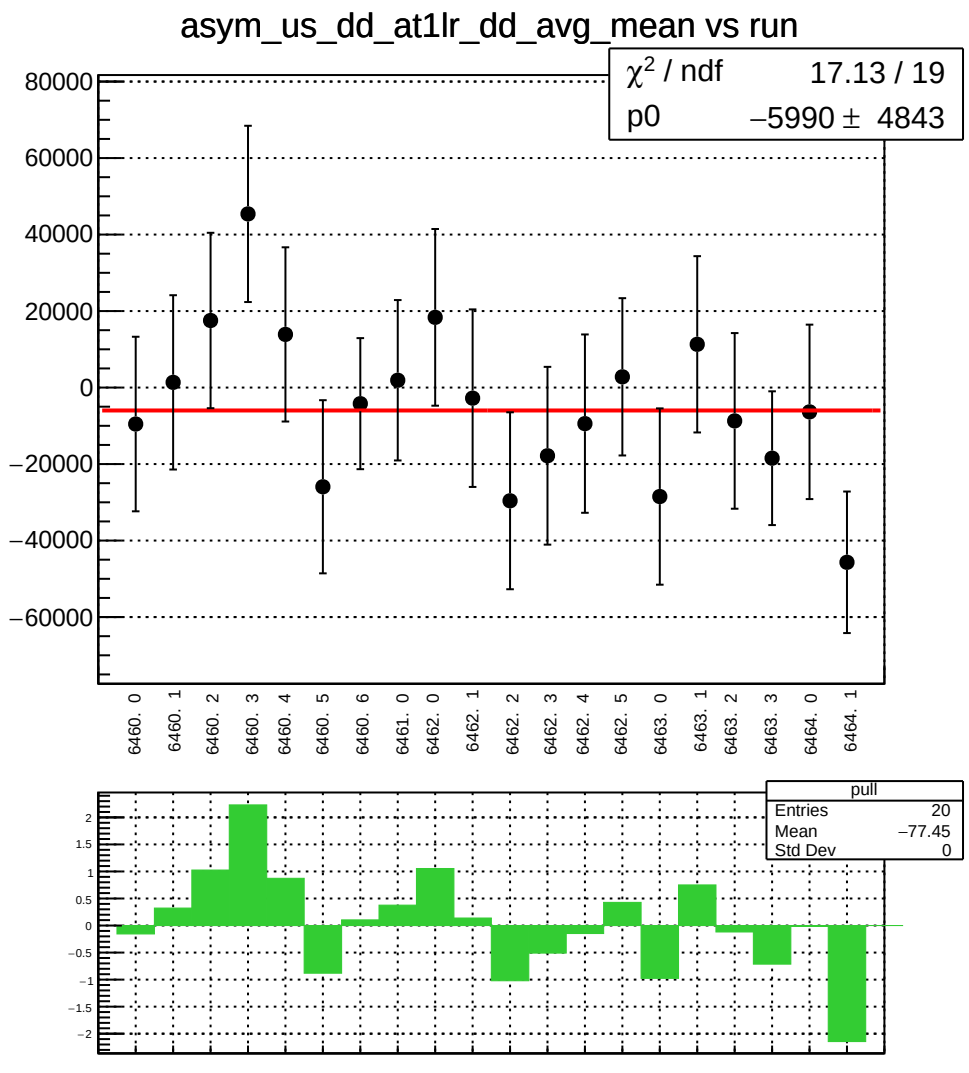

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 772.8 / 19
p0 158.9 ± 0.2498
170
165
160
155
150
145
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

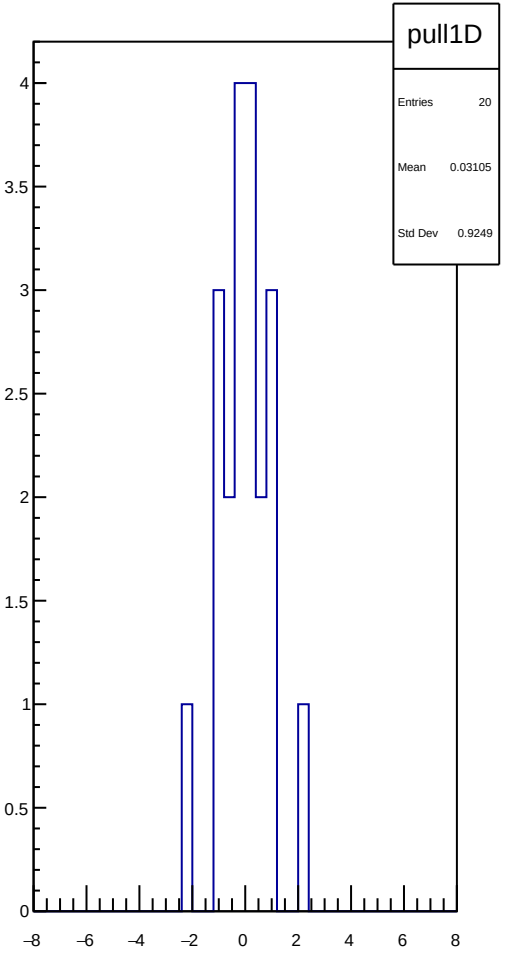

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 17.79 / 19
p0 −6224 ± 4831
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −68.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean 0.03408
Std Dev 0.9425
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

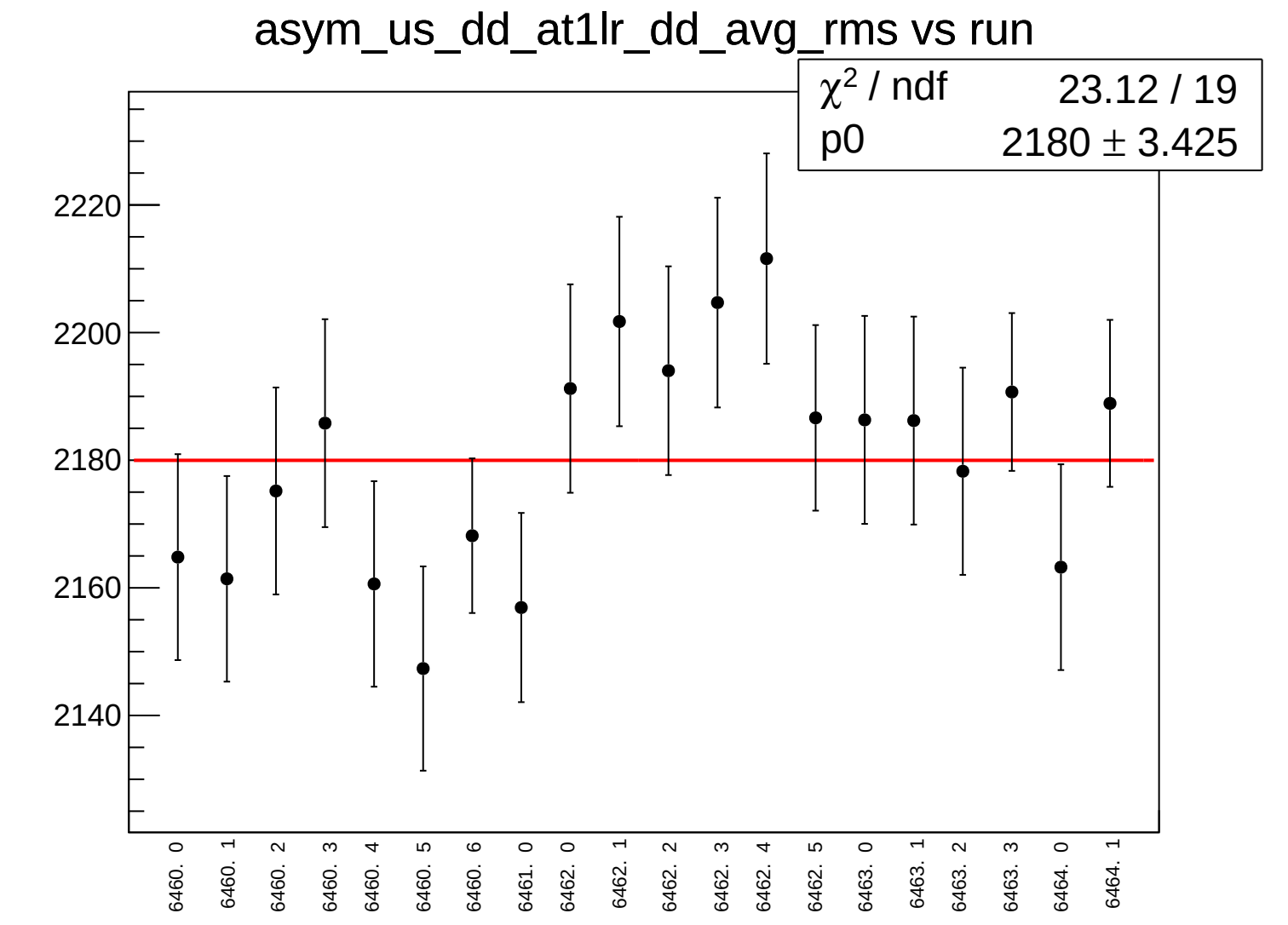

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 22.46 / 19
p0 2174 ± 3.416
2220
2200
2180
2160
2140
2120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

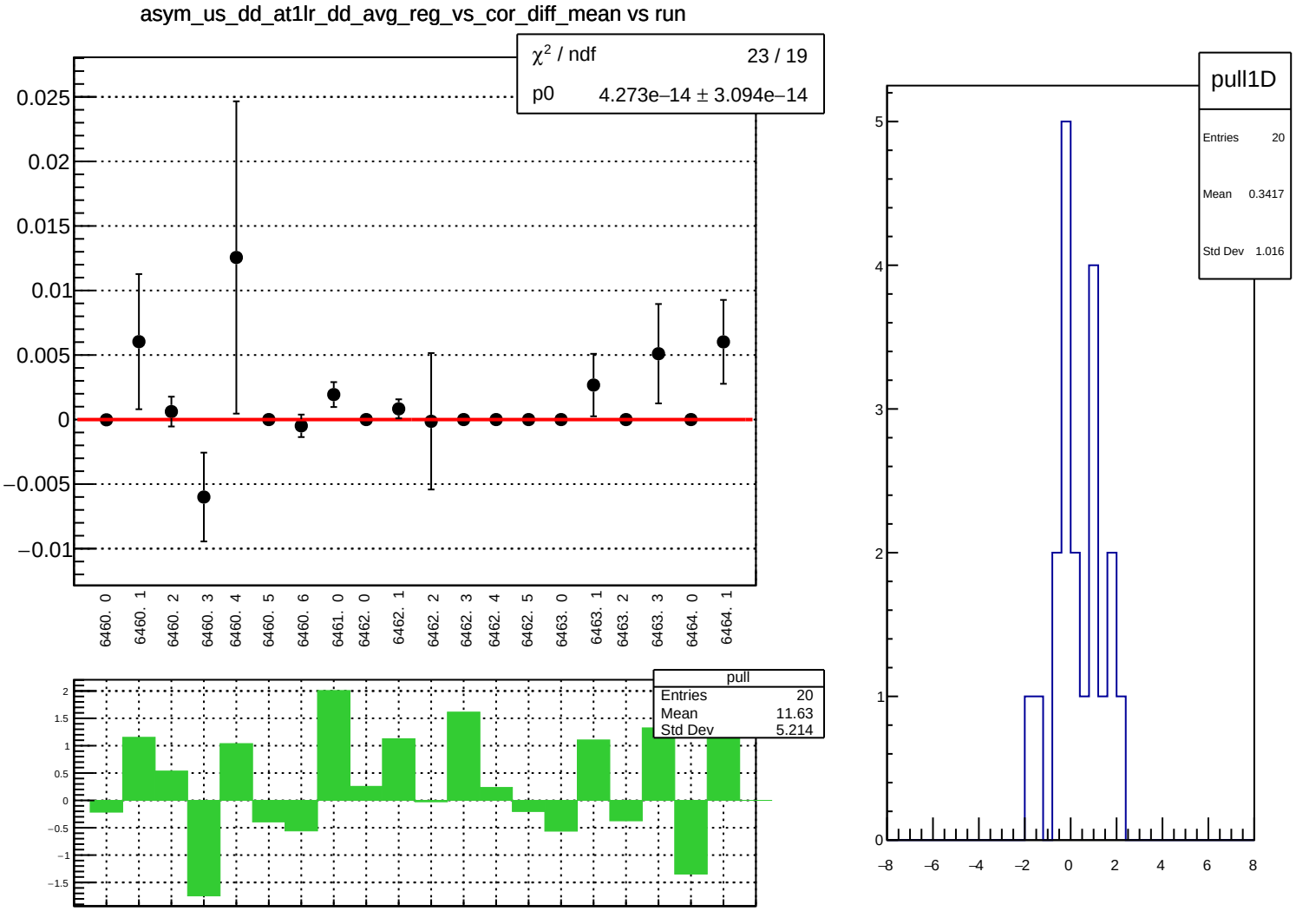

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 15.11 / 19
p0 −218.3 ± 353.3
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 35.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03443
Std Dev 0.8684
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

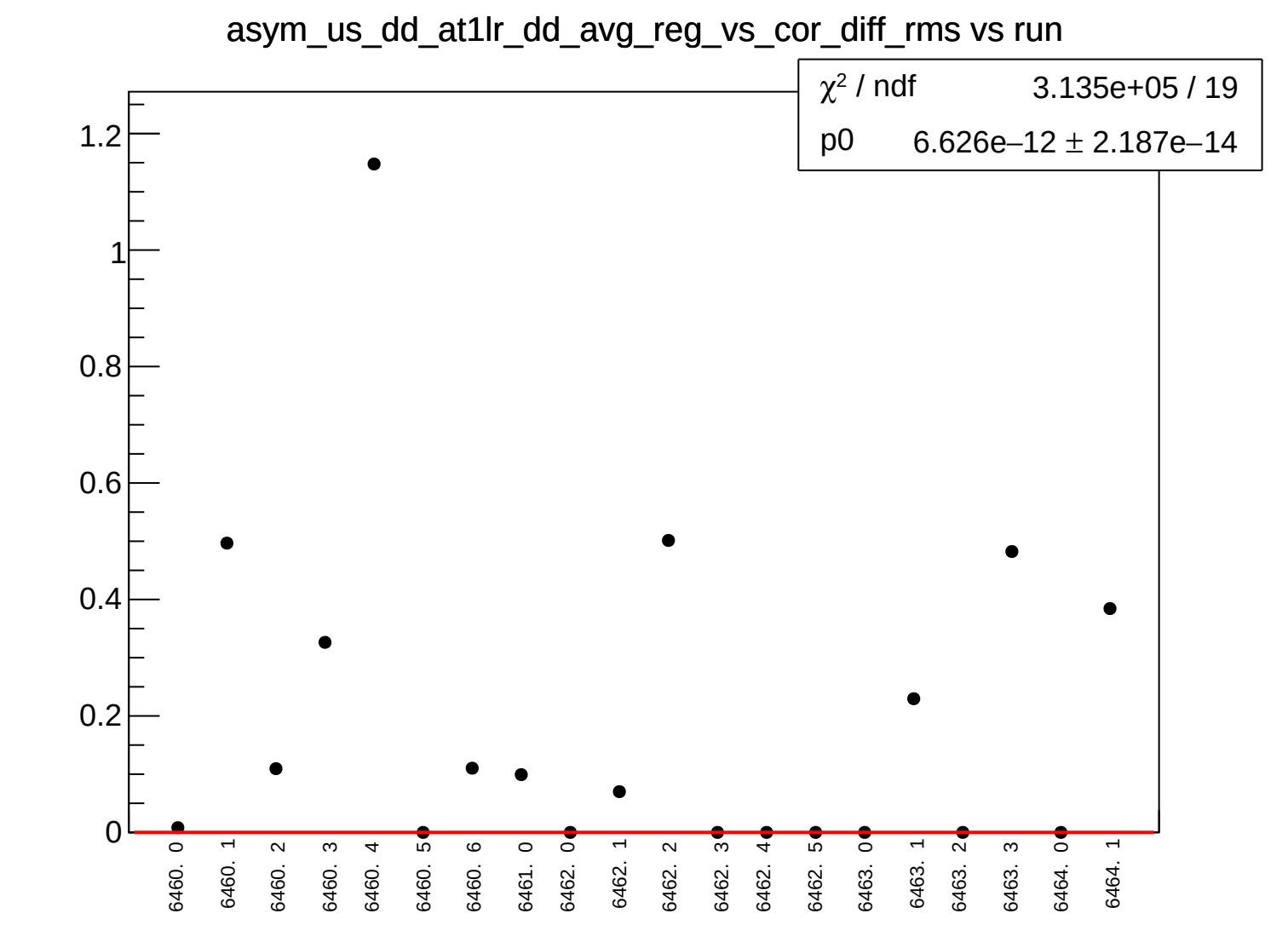

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 772.8 / 19
p0 158.9 ± 0.2498
170
165
160
155
150
145
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

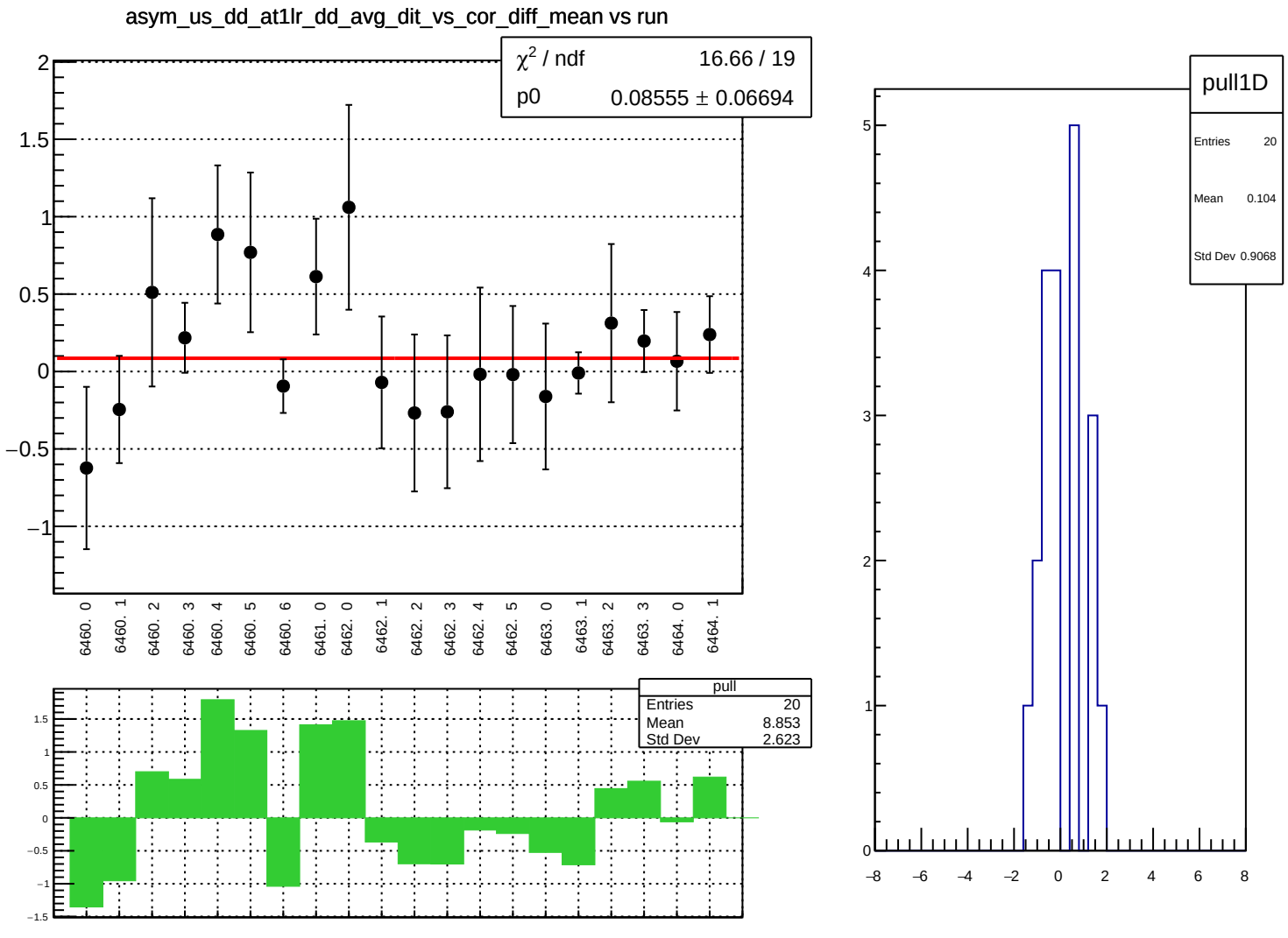

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 17.13 / 19
p0 −5990 ± 4843
80000
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −77.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

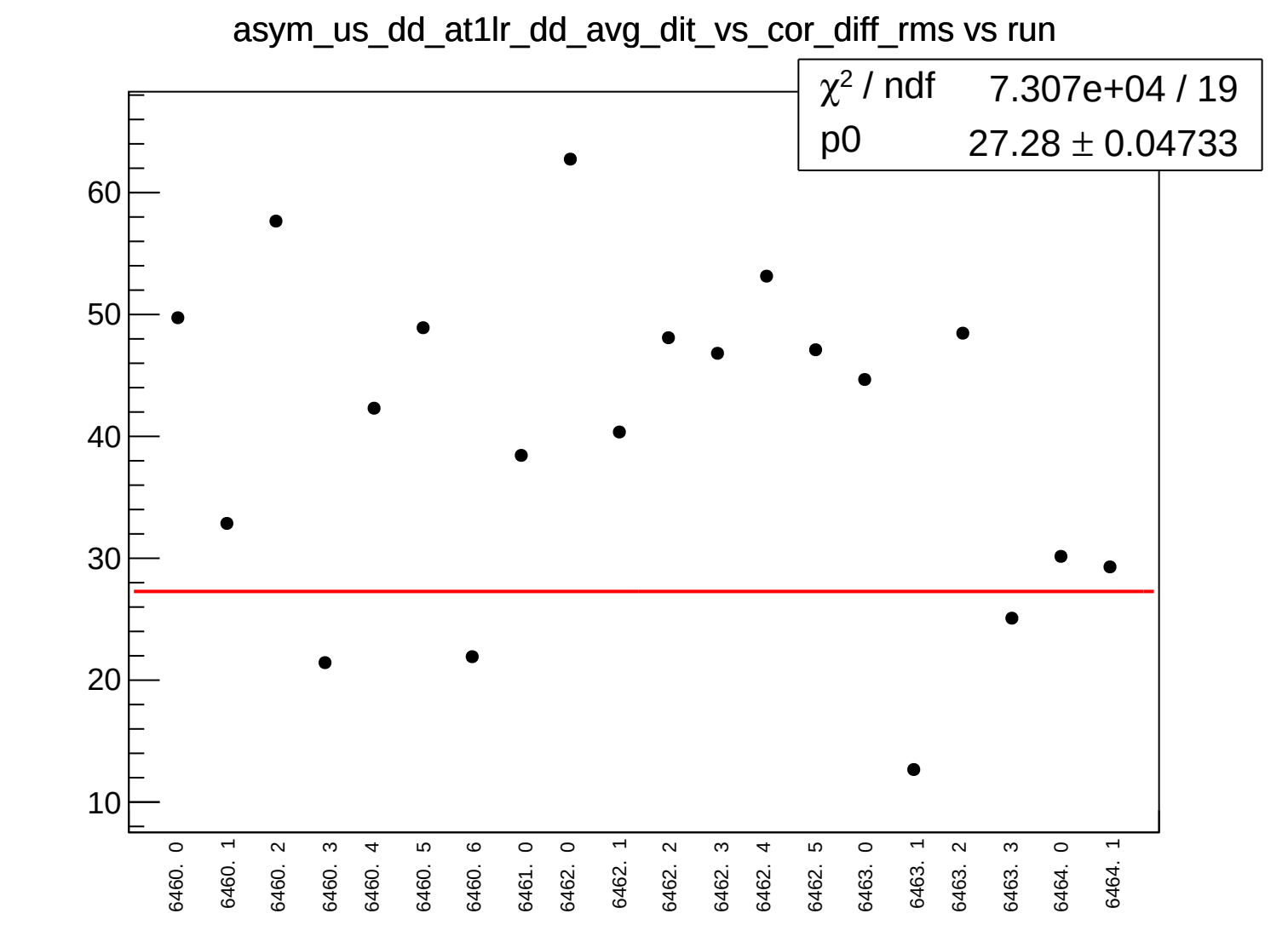

pull1D
Entries 20
Mean 0.03105
Std Dev 0.9249
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

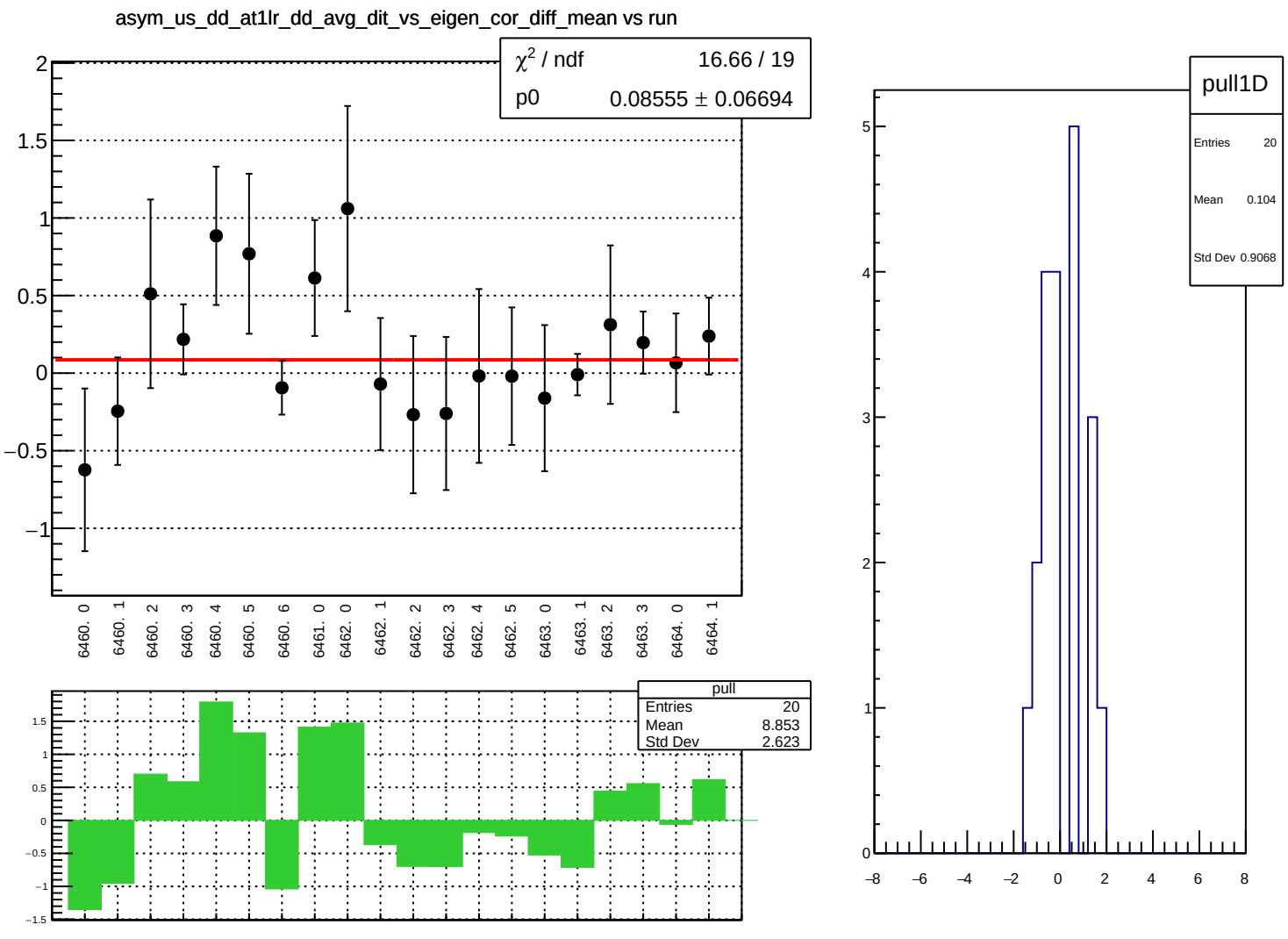

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 23.12 / 19
p0 2180 ± 3.425
2220
2200
2180
2160
2140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

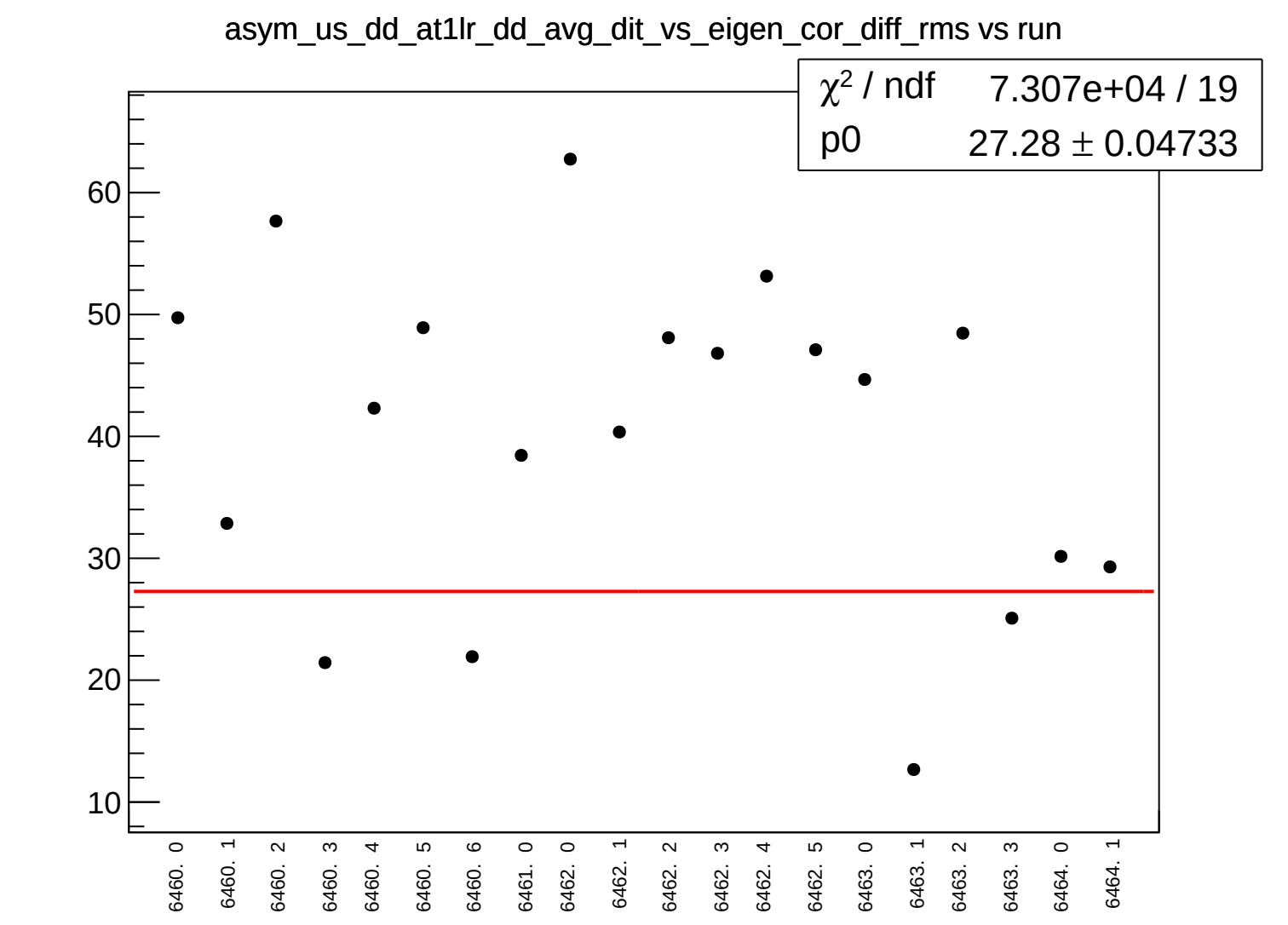

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23 / 19
p0 4.273e−14 ± 3.094e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 11.63
Std Dev 5.214
pull1D
Entries 20
Mean 0.3417
Std Dev 1.016

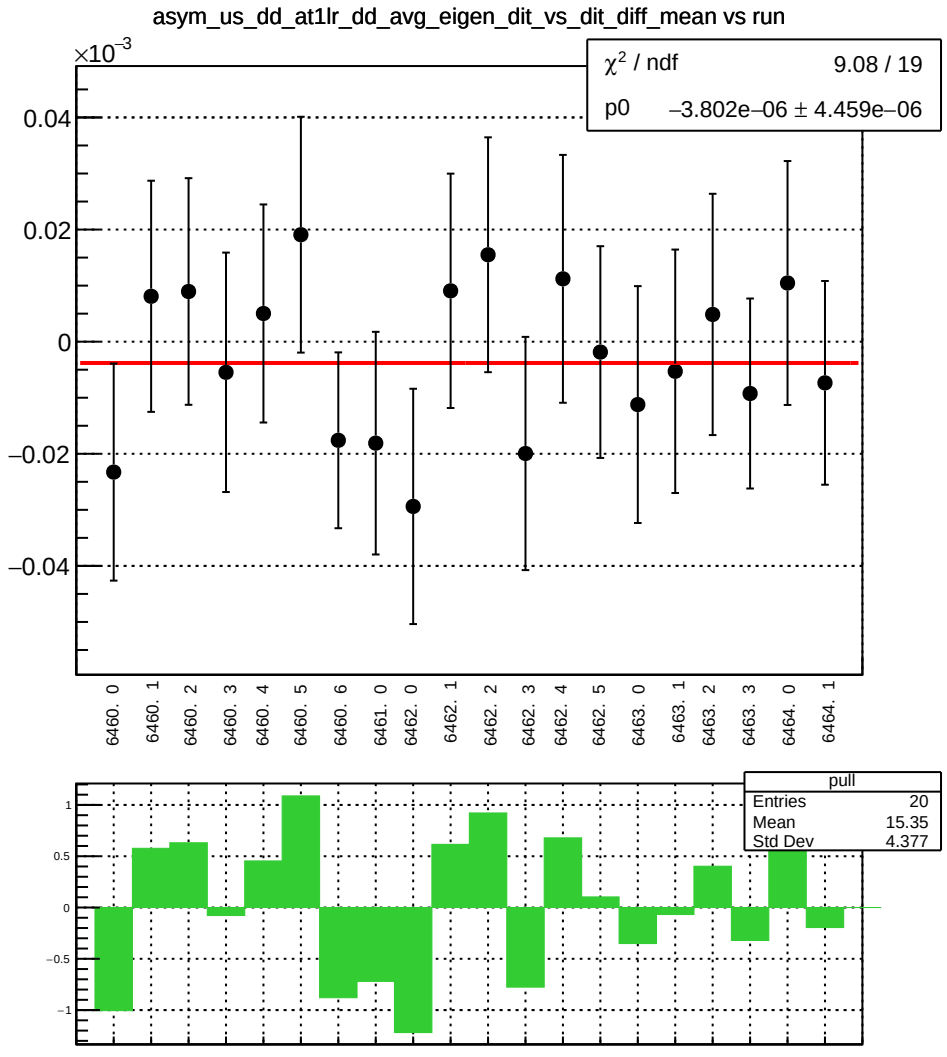

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.135e+05 / 19
p0 6.626e−12 ± 2.187e−14
1.2
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

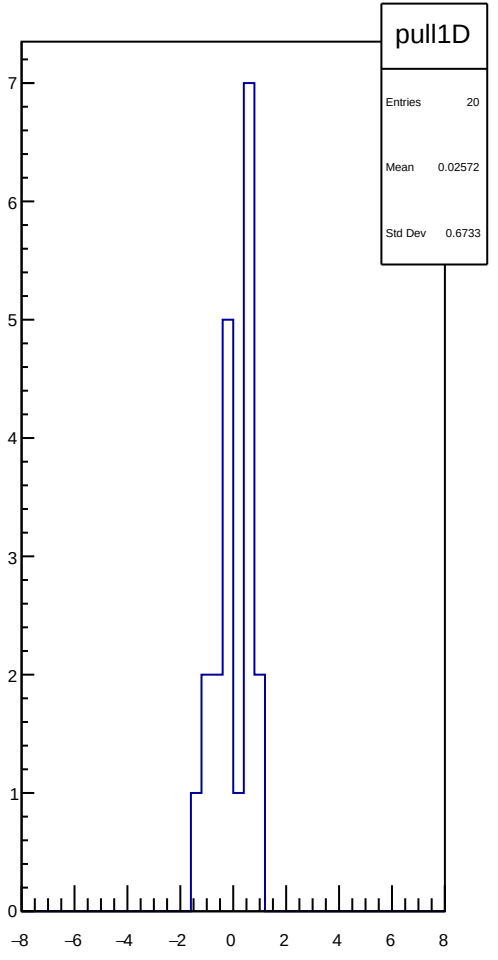

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 16.66 / 19
p0 0.08555 ± 0.06694
2
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.853
Std Dev 2.623
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.104
Std Dev 0.9068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

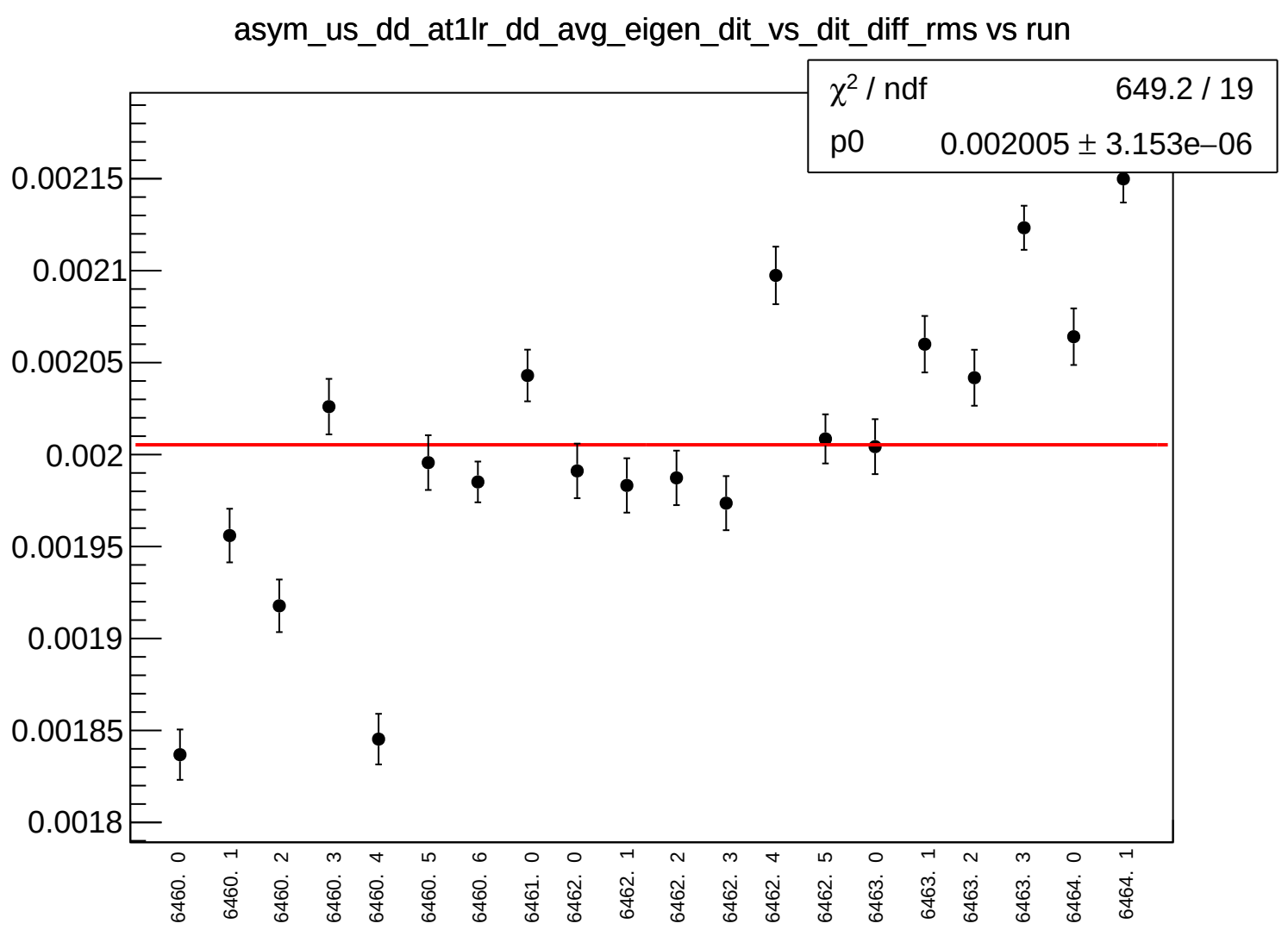

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.307e+04 / 19
p0 27.28 ± 0.04733
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

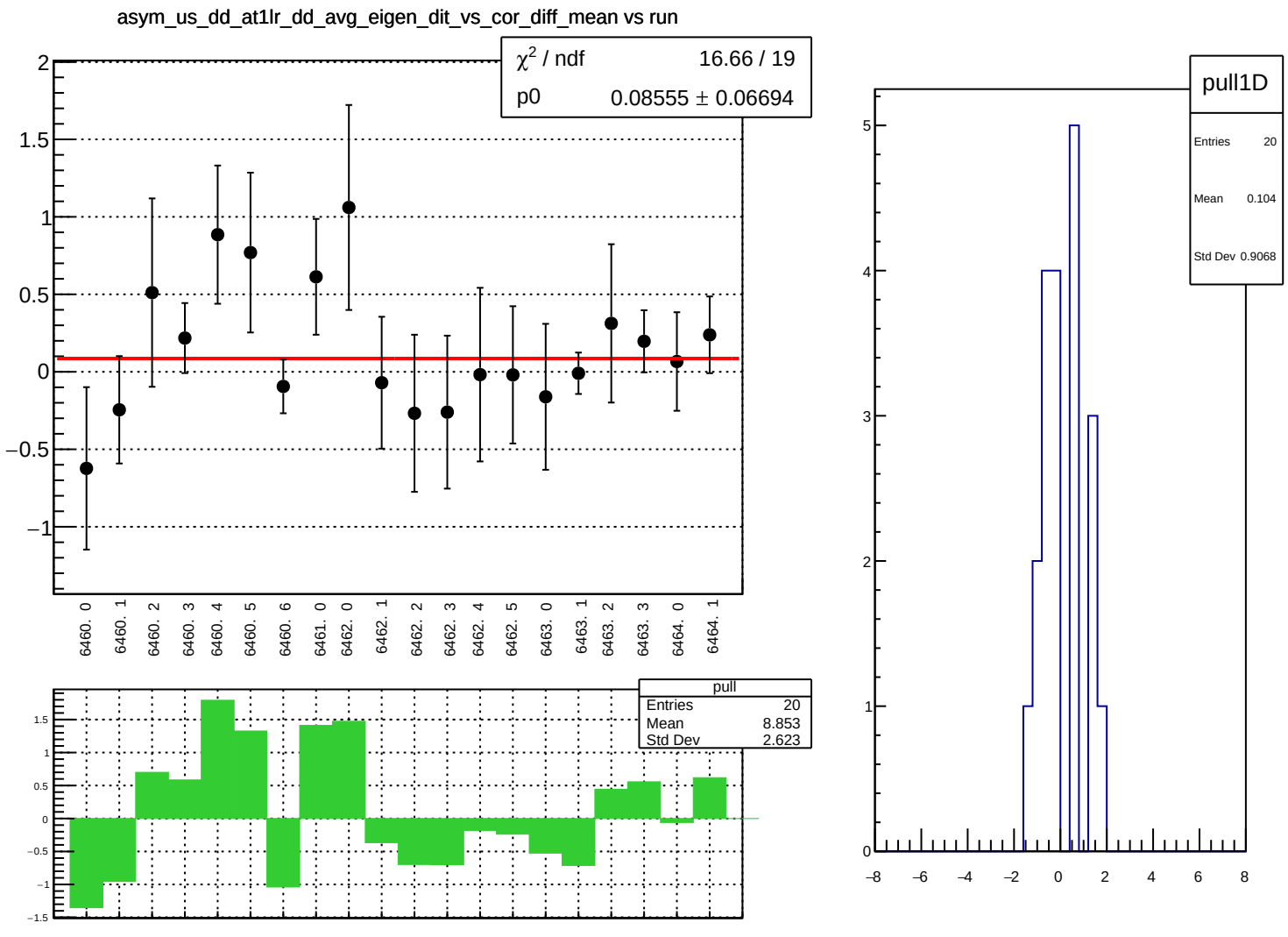

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.66 / 19
p0 0.08555 ± 0.06694
2
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.853
Std Dev 2.623
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.104
Std Dev 0.9068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

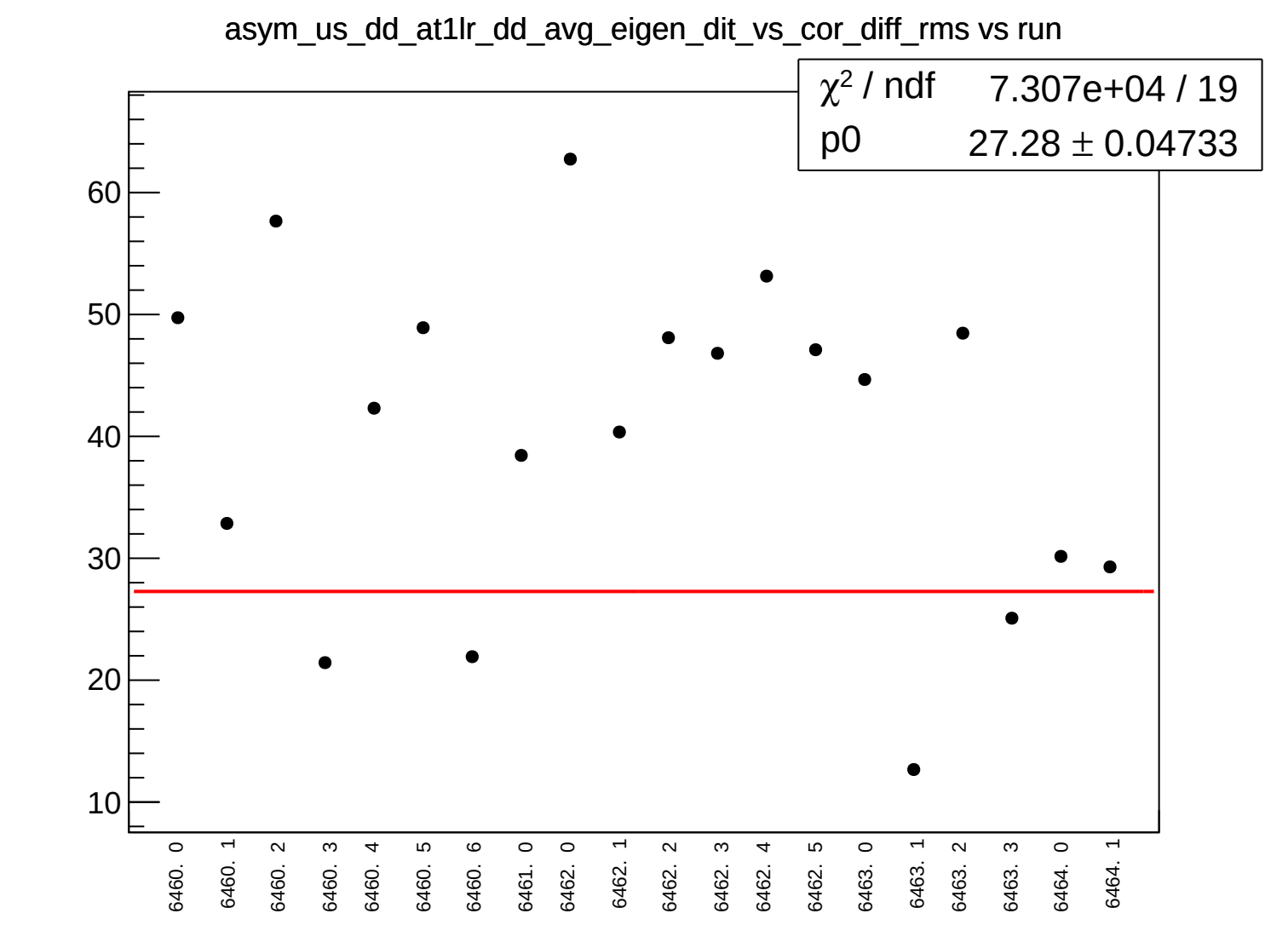

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.307e+04 / 19
p0 27.28 ± 0.04733
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

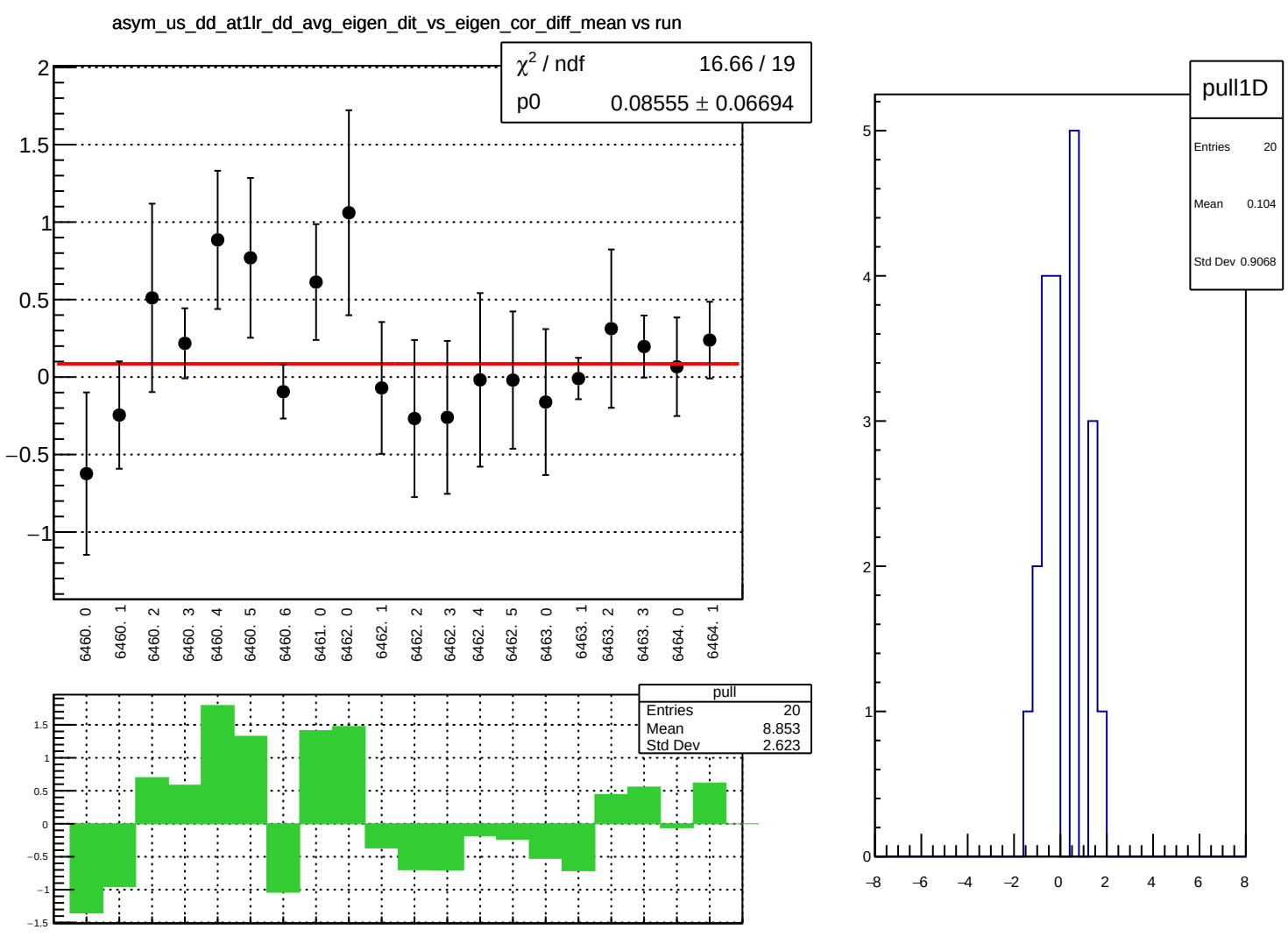

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 9.08 / 19
p0 −3.802e−06 ± 4.459e−06
0.04
0.02
0
−0.02
−0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.35
Std Dev 4.377
1
0.5
0
−0.5
−1

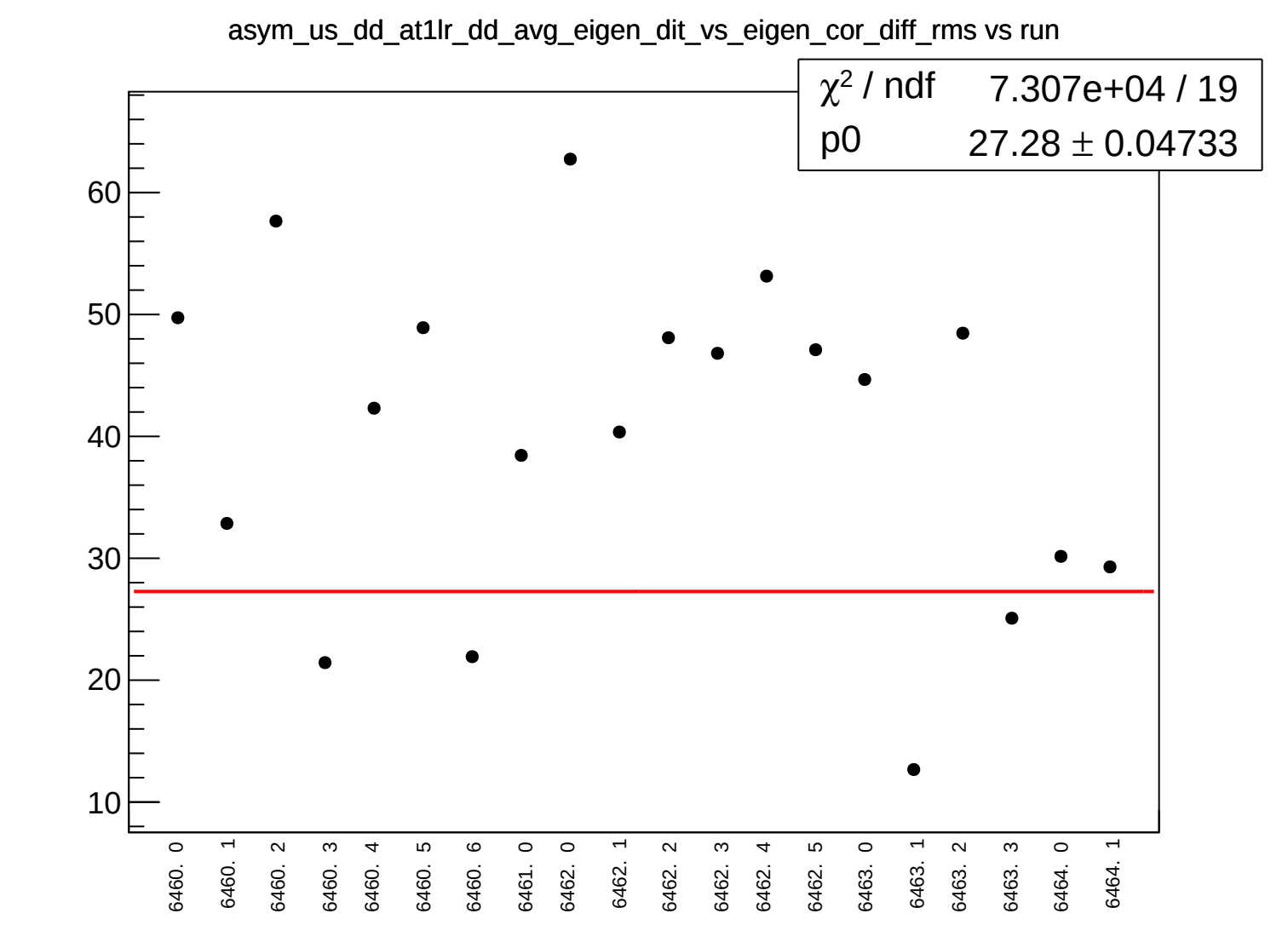

pull1D
Entries 20
Mean 0.02572
Std Dev 0.6733
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

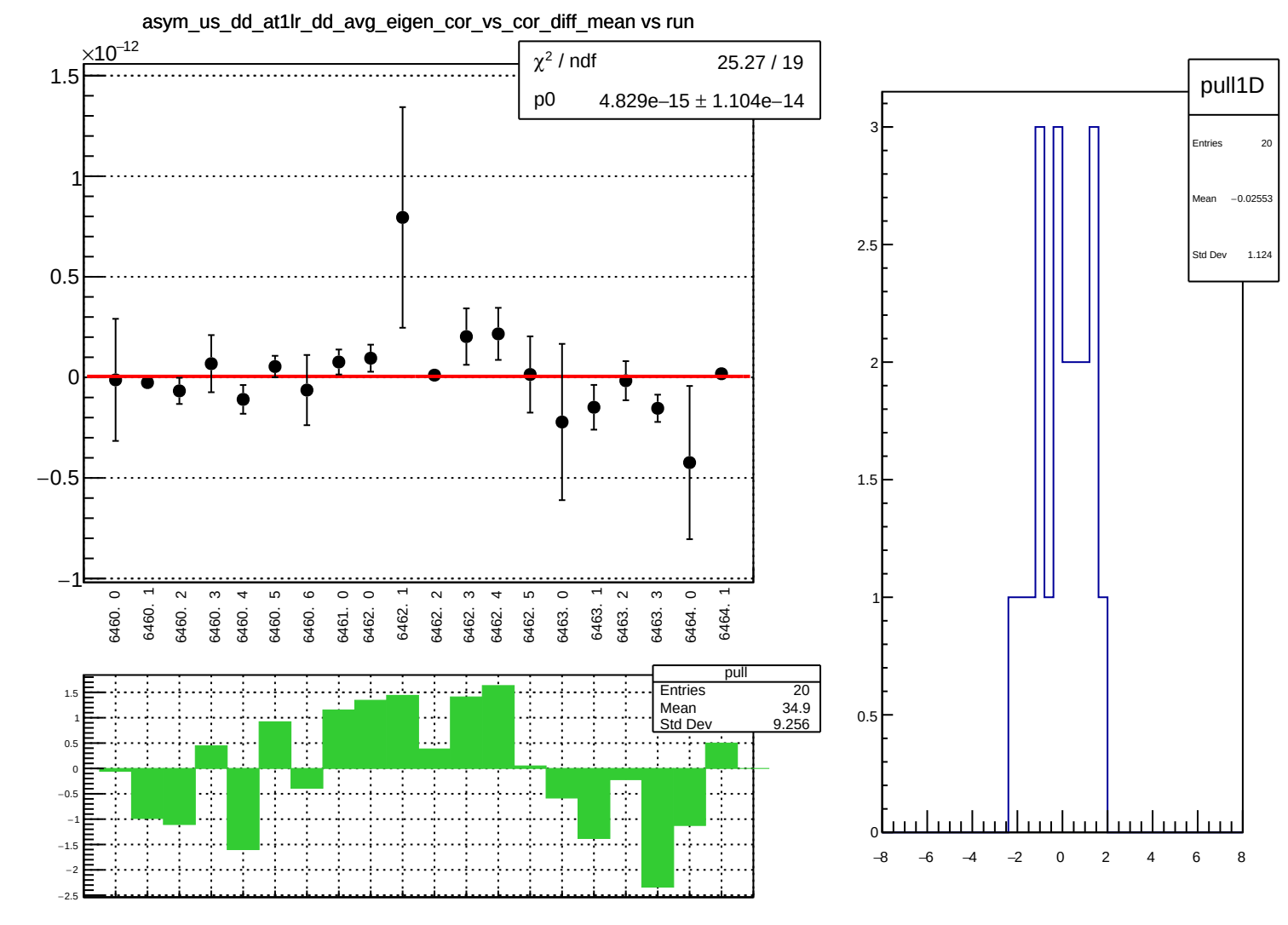

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 649.2 / 19
p0 0.002005 ± 3.153e−06
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

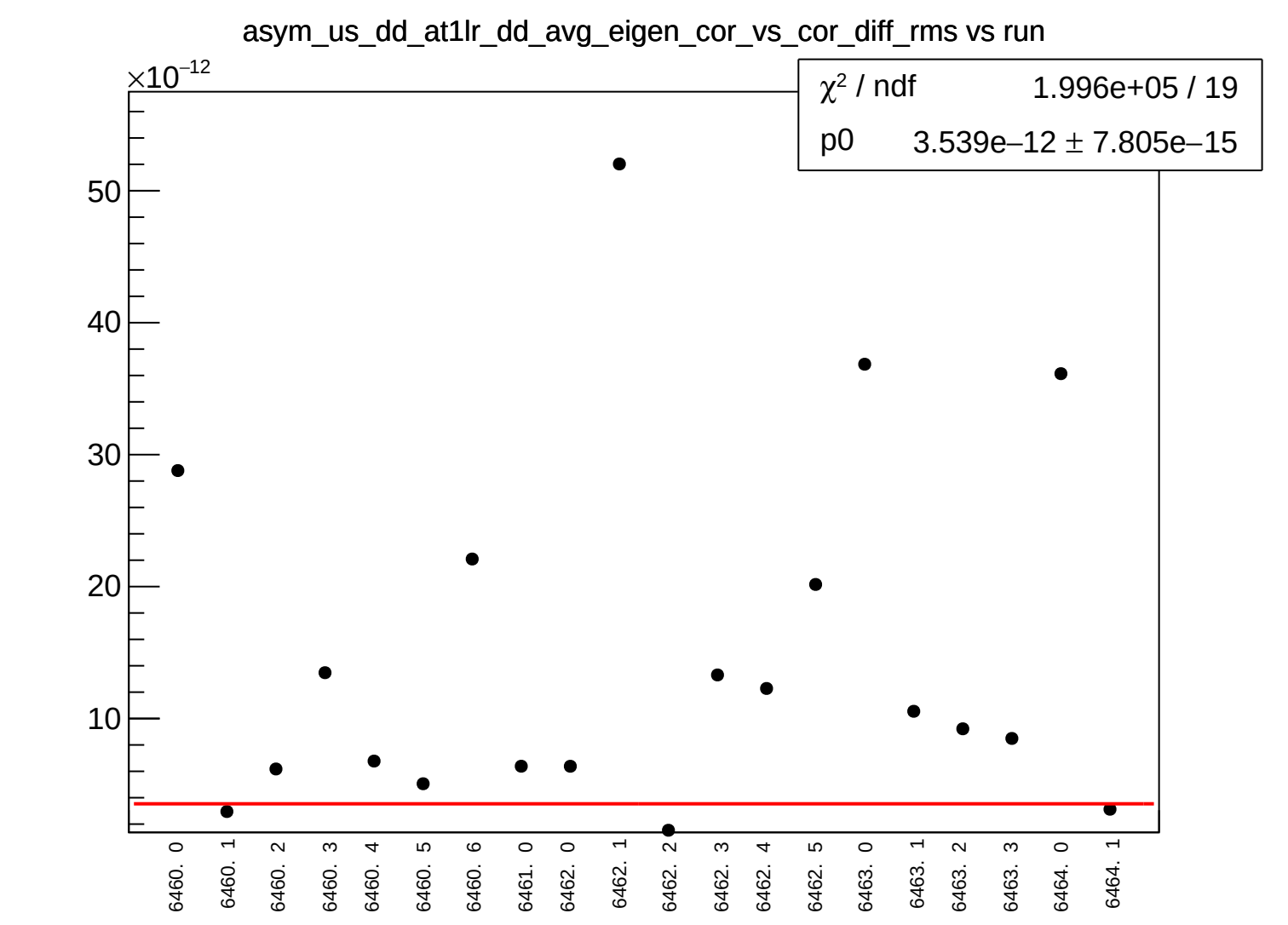

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.66 / 19
p0 0.08555 ± 0.06694
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.853
Std Dev 2.623
pull1D
Entries 20
Mean 0.104
Std Dev 0.9068

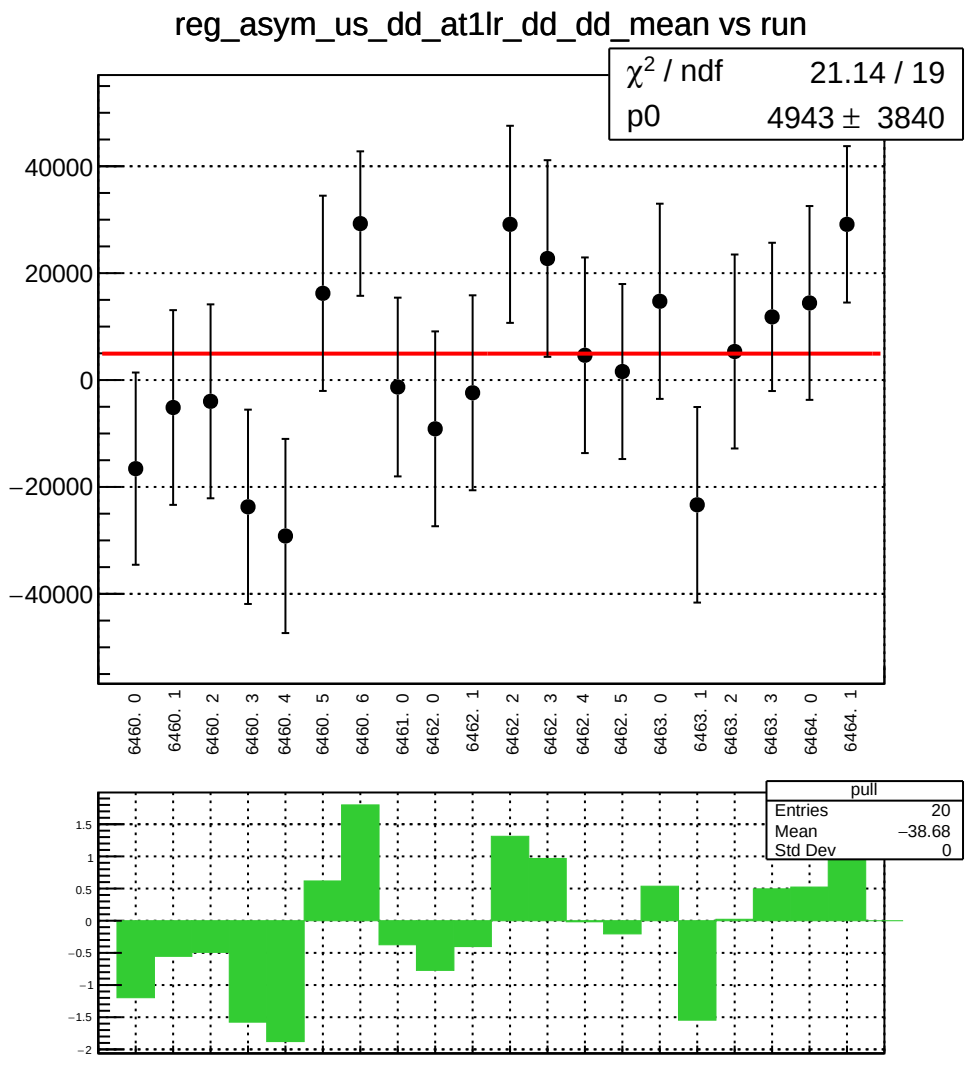

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.307e+04 / 19
p0 27.28 ± 0.04733
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

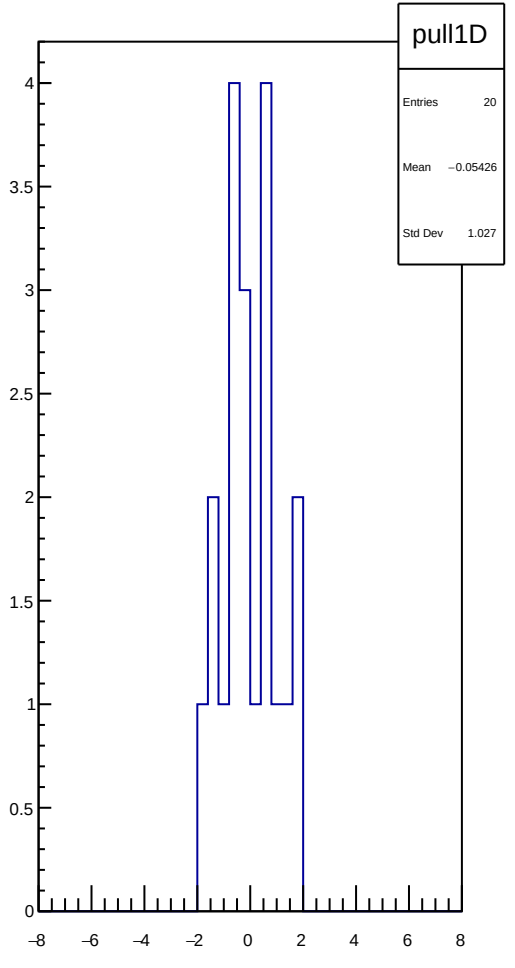

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.66 / 19
p0 0.08555 ± 0.06694
2
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.853
Std Dev 2.623
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.104
Std Dev 0.9068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

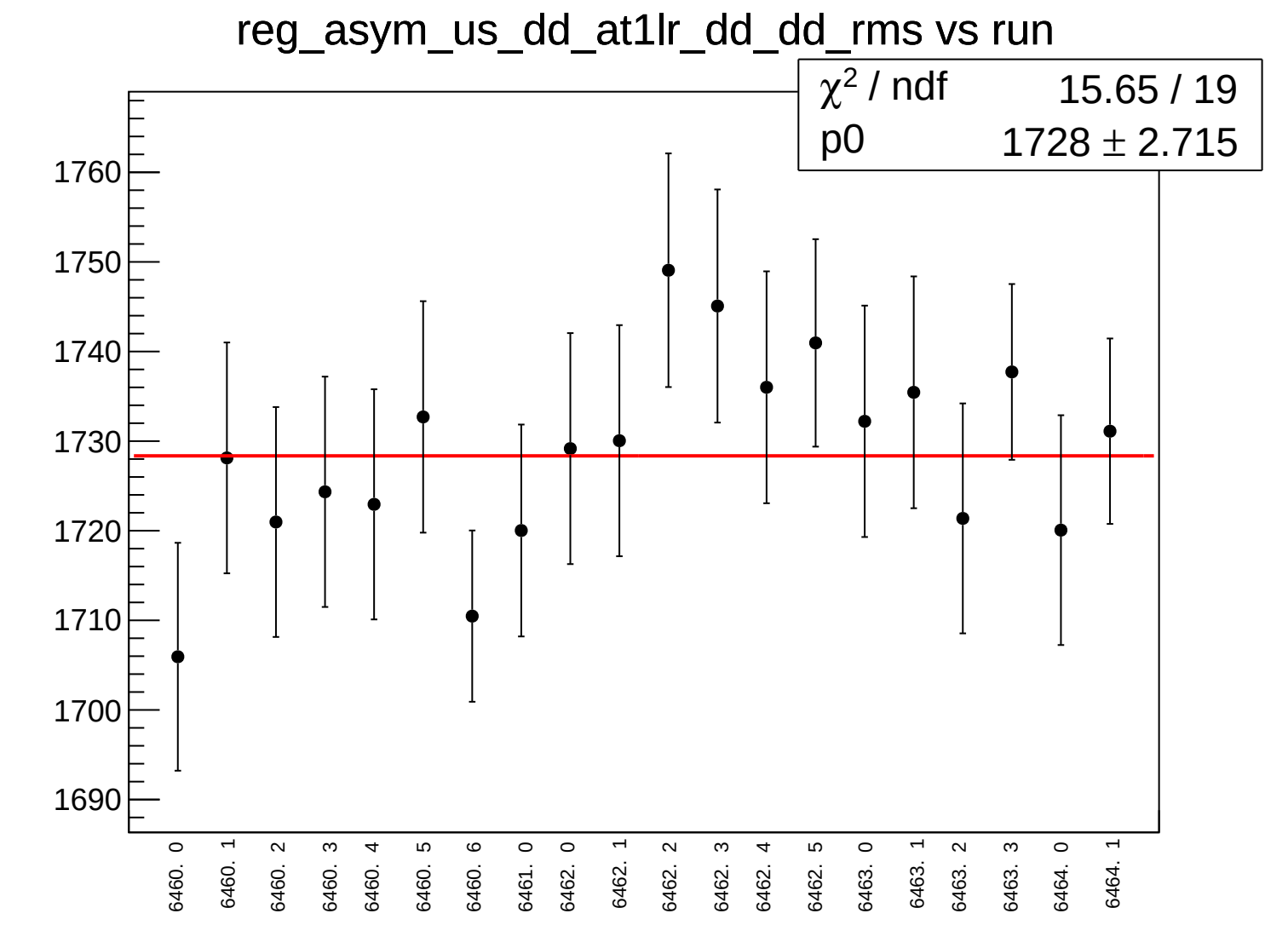

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.307e+04 / 19
p0 27.28 ± 0.04733
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

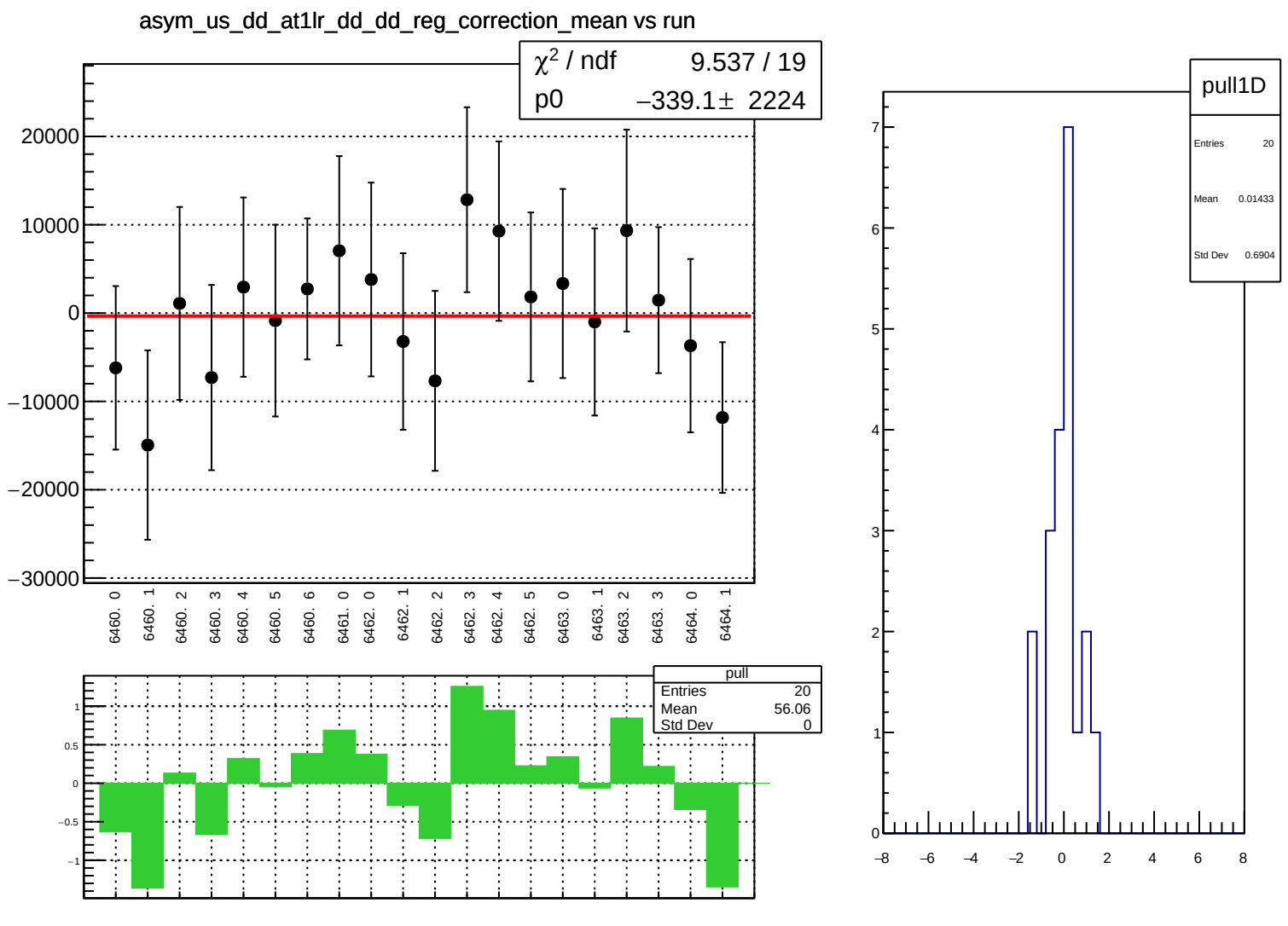

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.27 / 19
p0 4.829e−15 ± 1.104e−14
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.9
Std Dev 9.256
pull1D
Entries 20
Mean −0.02553
Std Dev 1.124
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

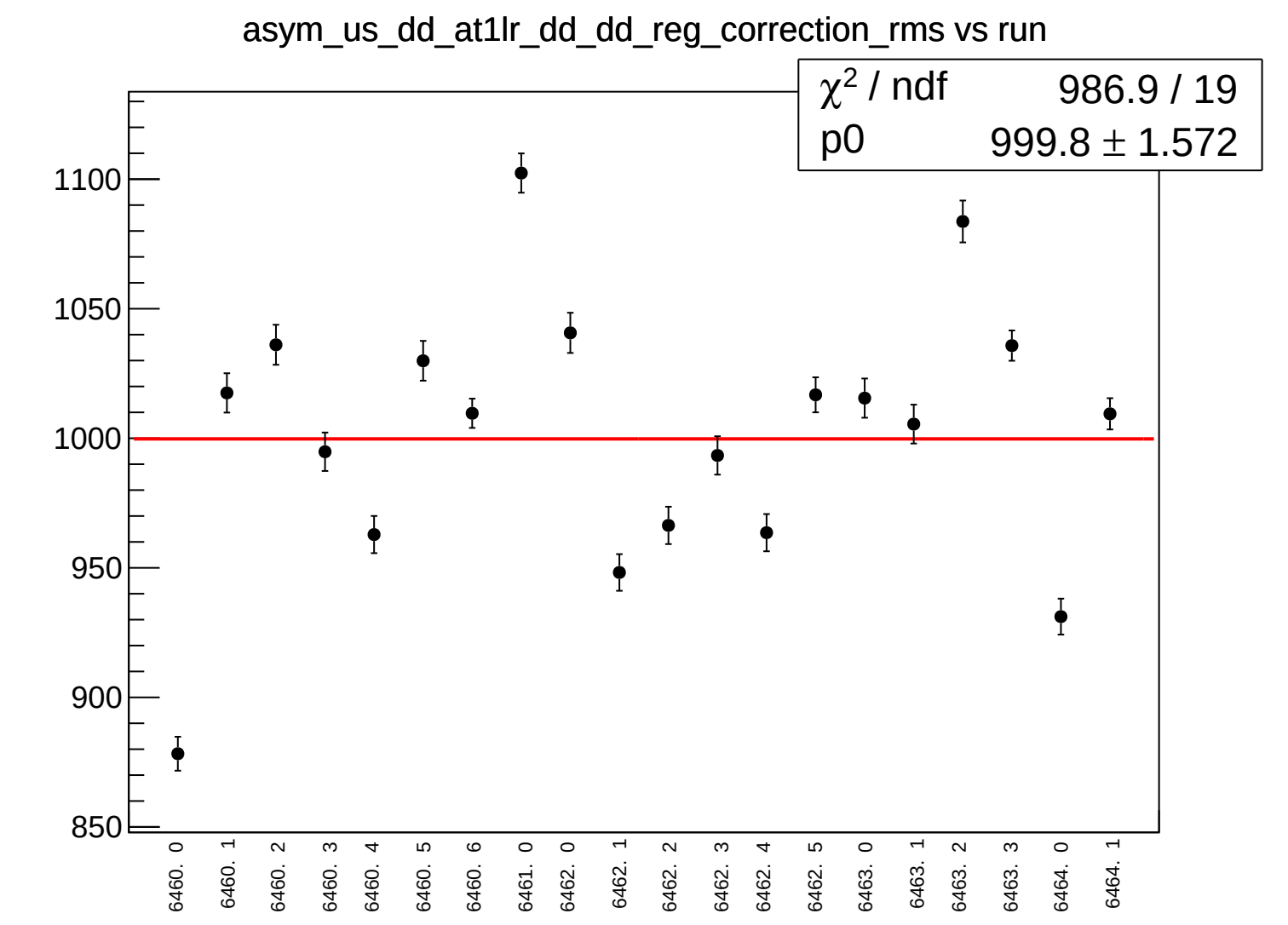

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.996e+05 / 19
p0 3.539e−12 ± 7.805e−15
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 21.14 / 19
p0 4943 ± 3840
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −38.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 20
Mean −0.05426
Std Dev 1.027
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 15.65 / 19
p0 1728 ± 2.715
1760
1750
1740
1730
1720
1710
1700
1690
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 9.537 / 19
p0 −339.1± 2224
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.06
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01433
Std Dev 0.6904
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 986.9 / 19
p0 999.8 ± 1.572
1100
1050
1000
950
900
850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6463. 1
6463. 2
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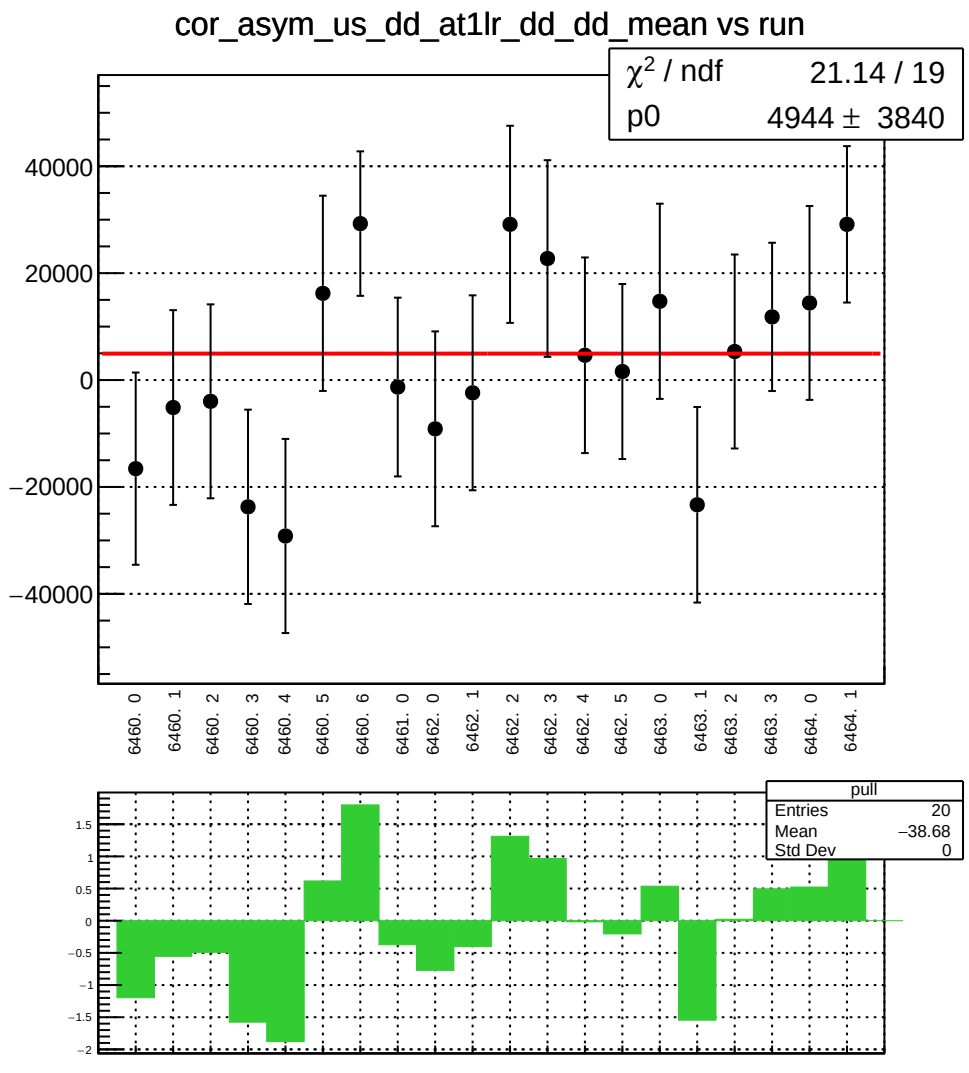
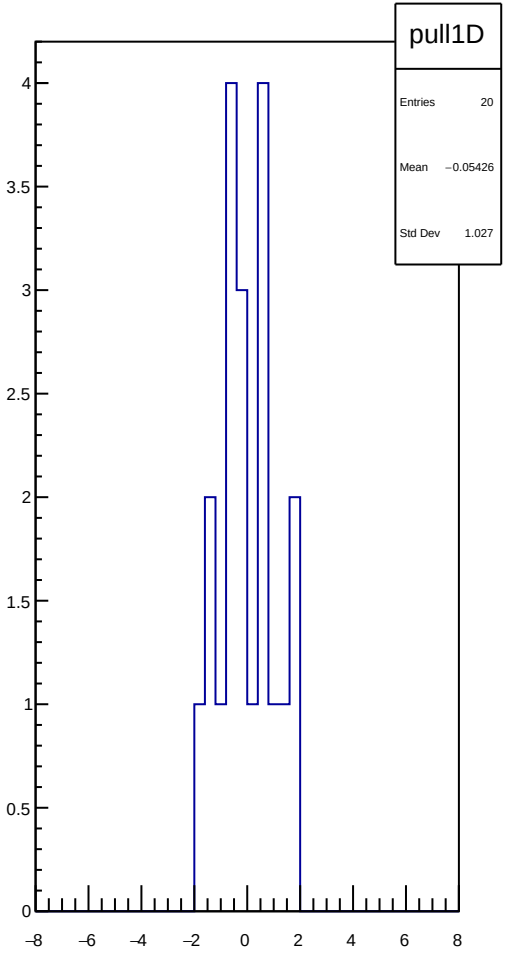
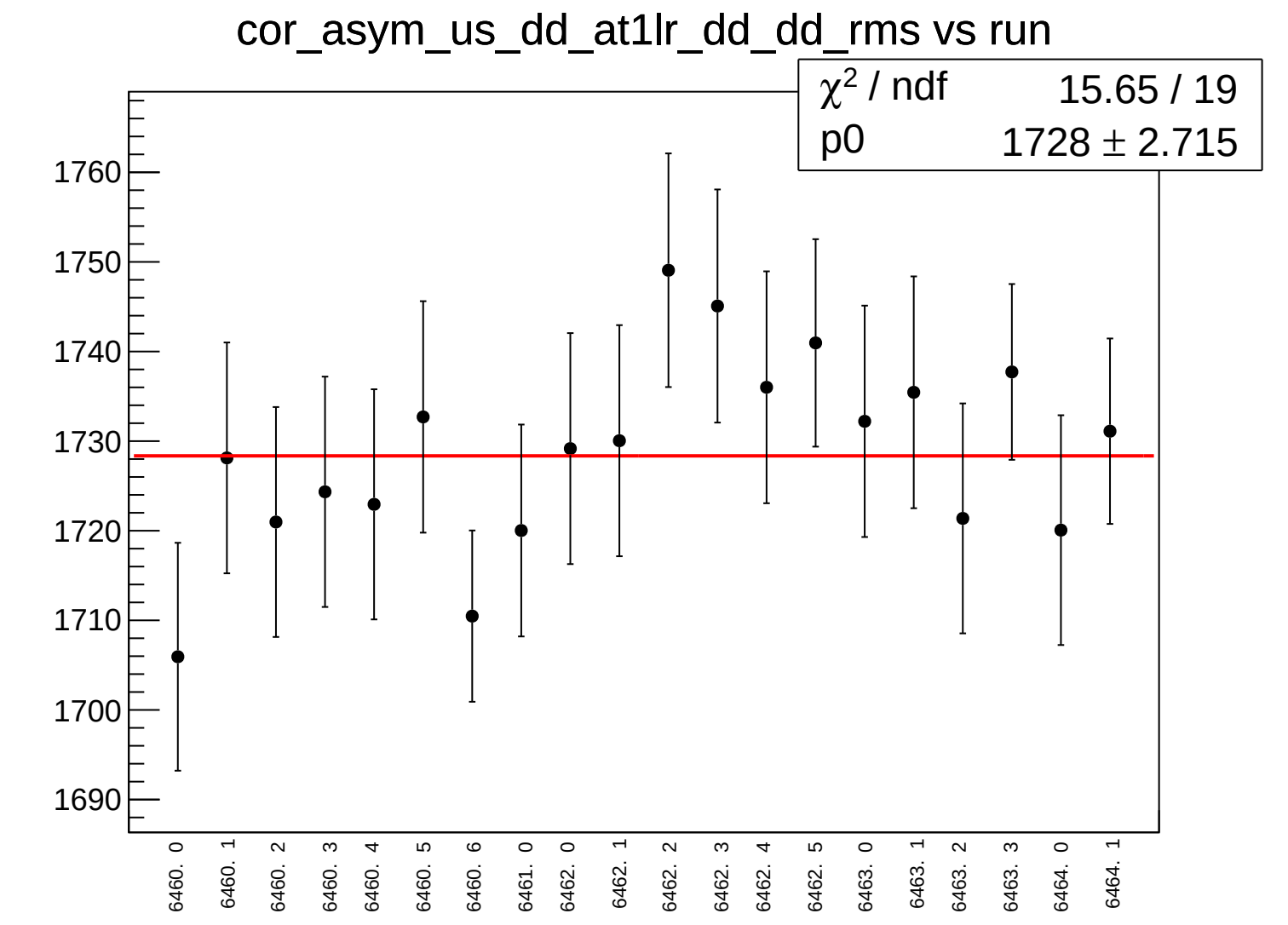
6464. 1


cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 21.14 / 19
p0 4944 ± 3840
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −38.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 20
Mean −0.05426
Std Dev 1.027
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 15.65 / 19
p0 1728 ± 2.715
1760
1750
1740
1730
1720
1710
1700
1690
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
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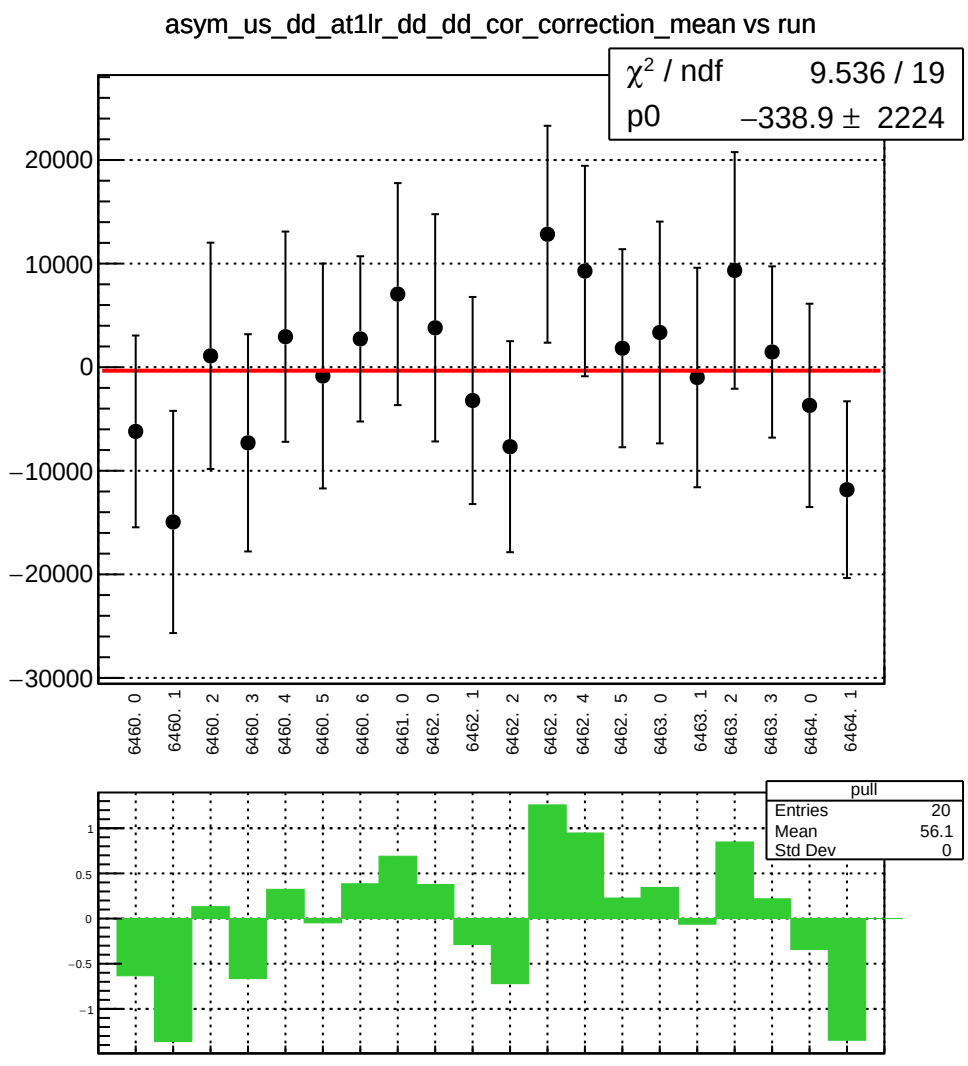
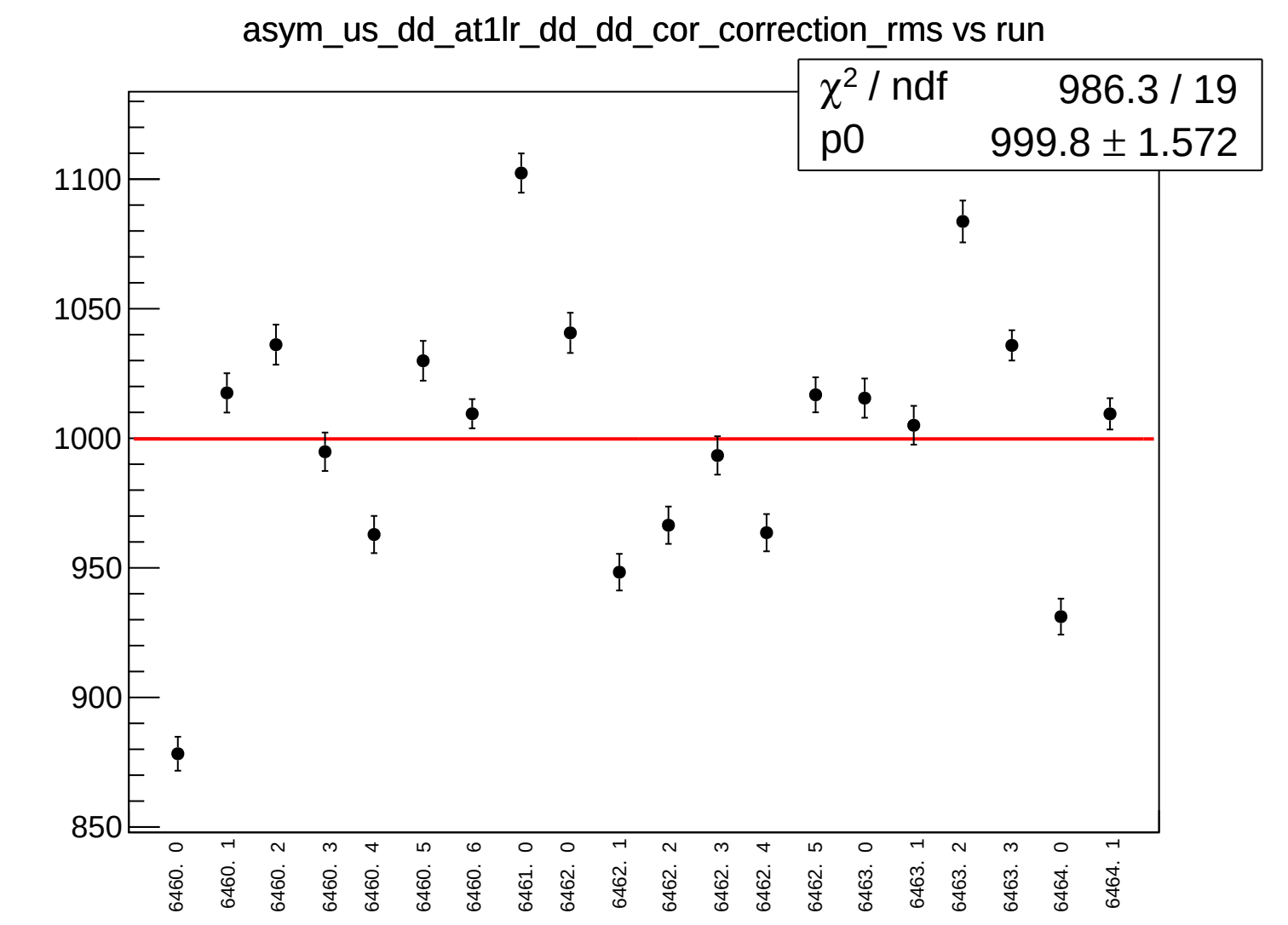
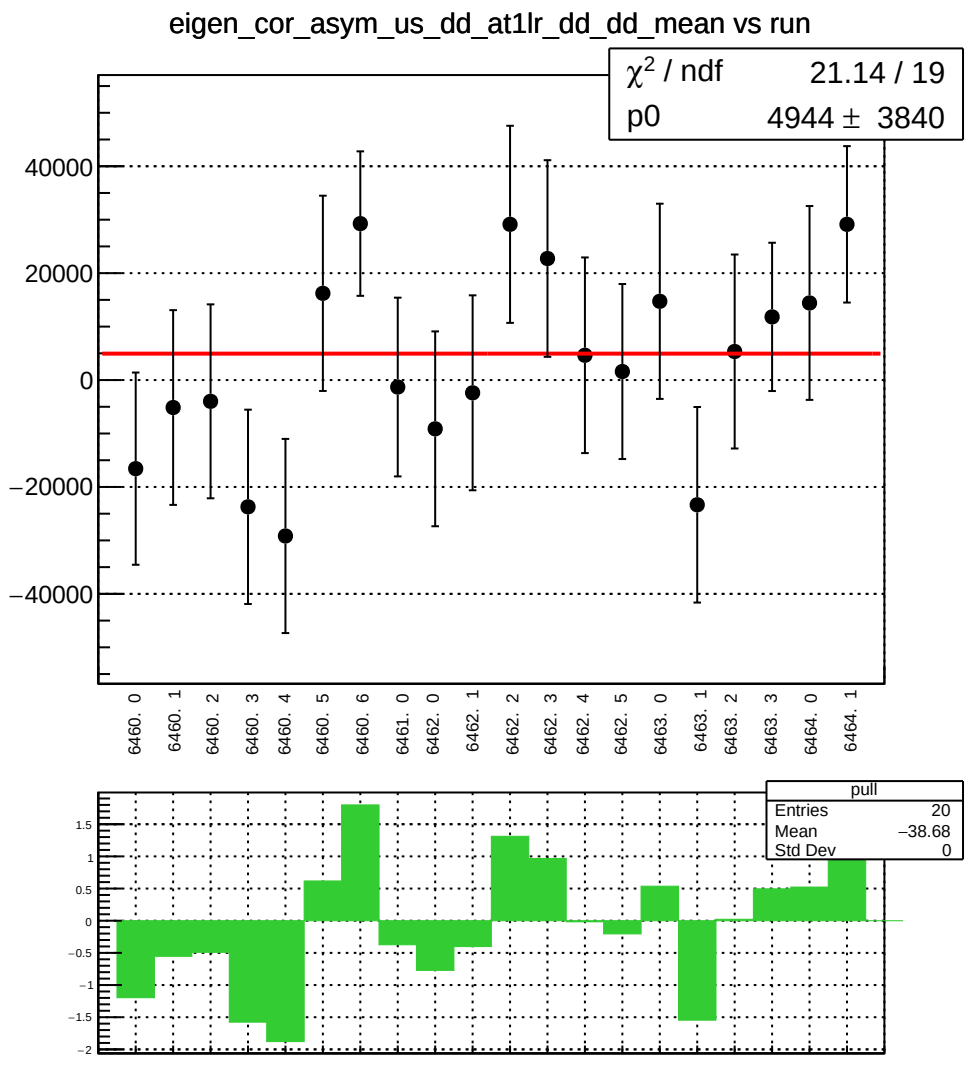
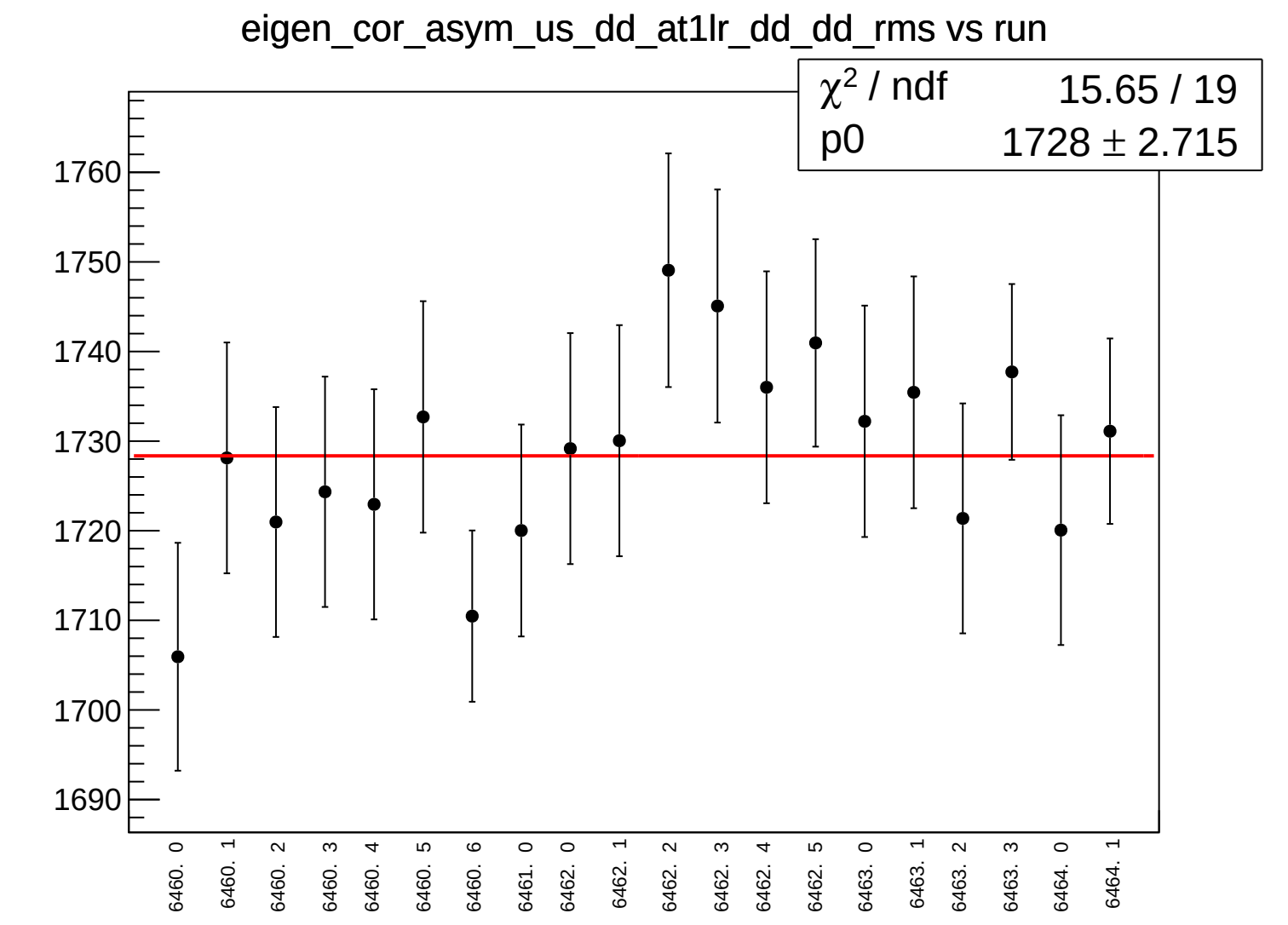
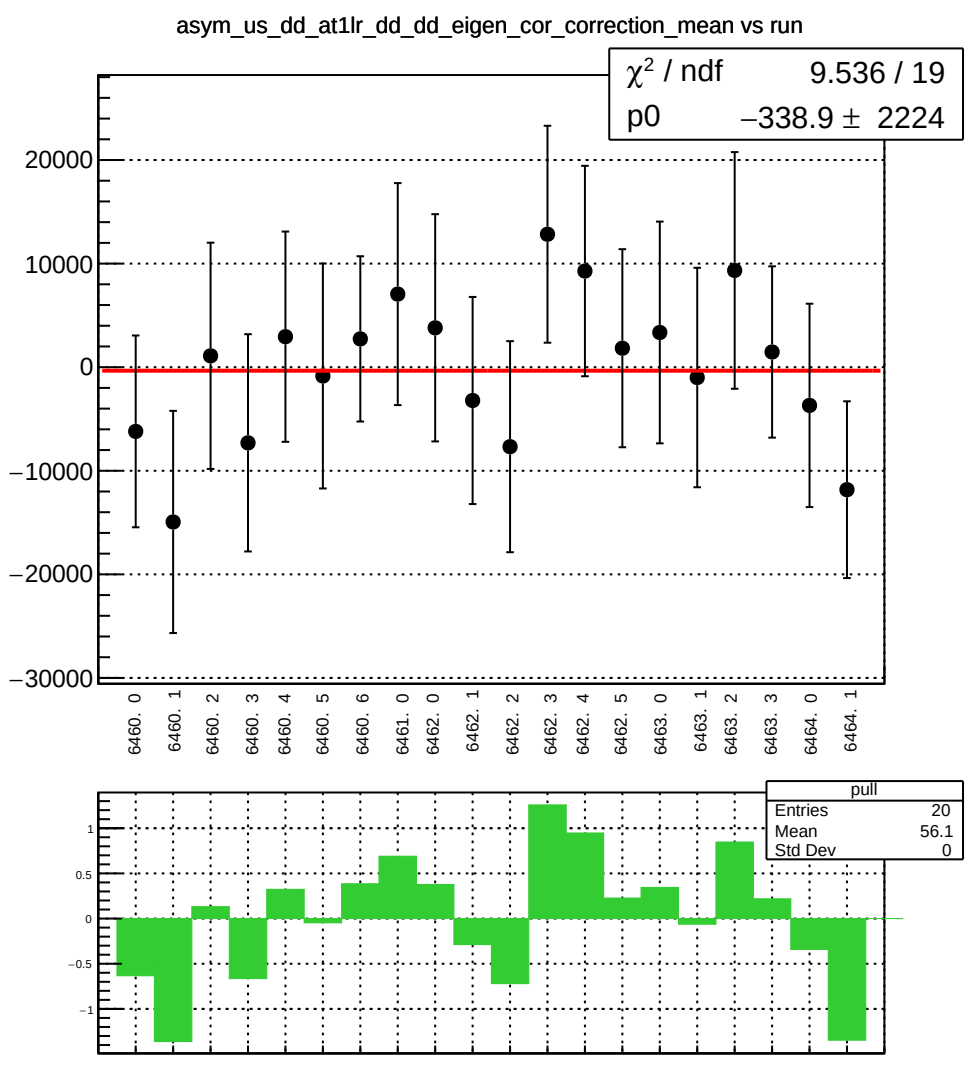
6463. 2
6463. 3
6464. 0
6464. 1

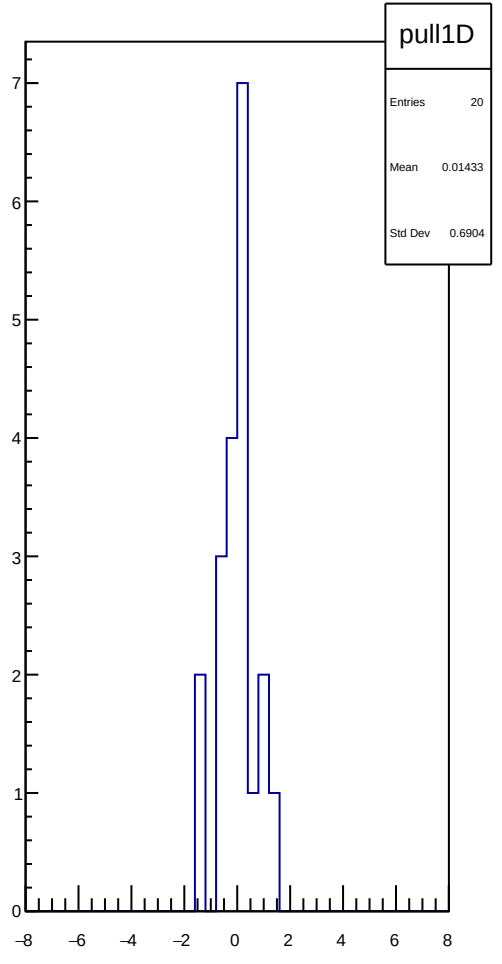

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 9.536 / 19
p0 −338.9 ± 2224
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01433
Std Dev 0.6904
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

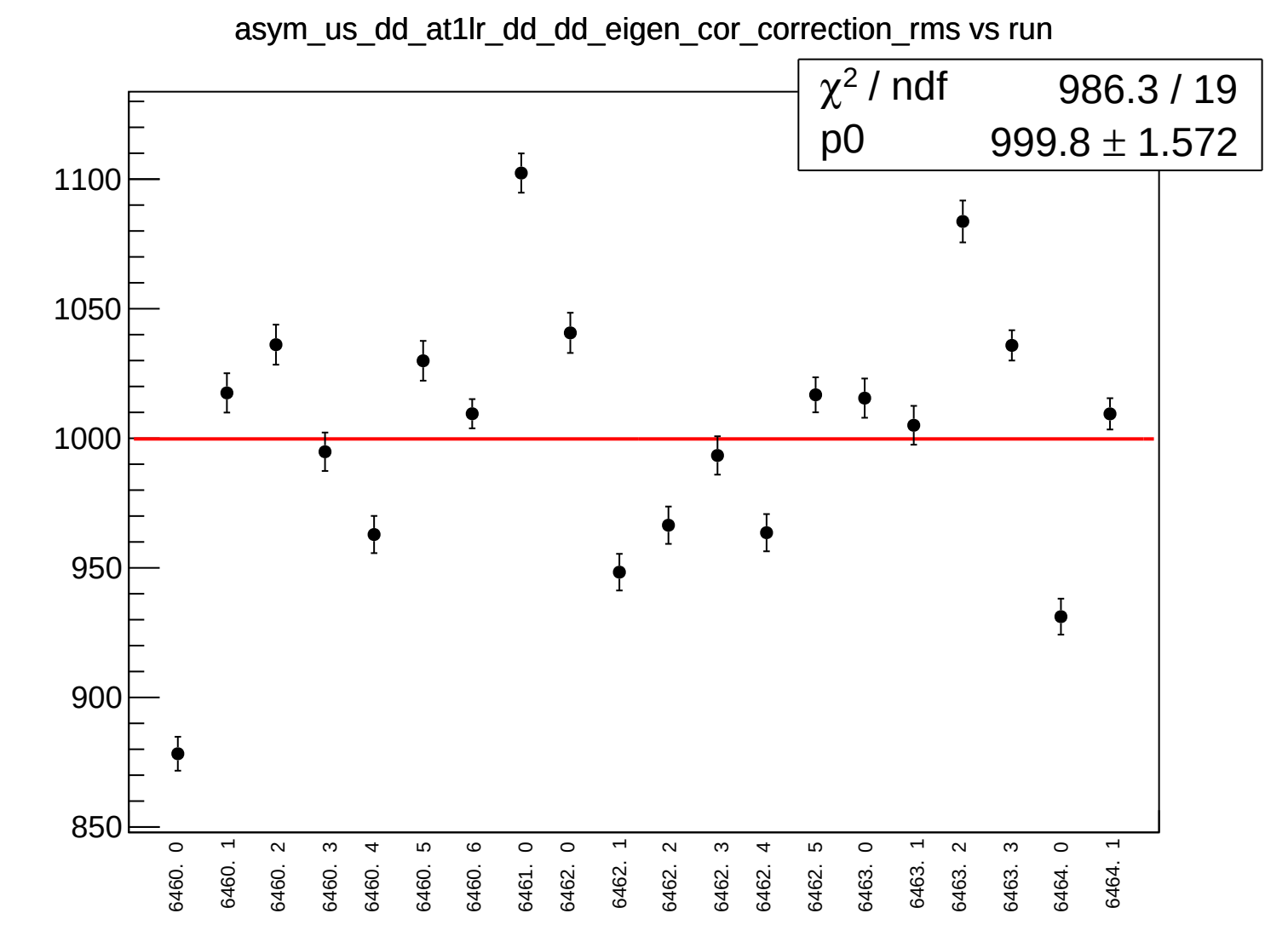

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 986.3 / 19
p0 999.8 ± 1.572
1100
1050
1000
950
900
850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 21.14 / 19
p0 4944 ± 3840
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −38.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.05426
Std Dev 1.027
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 15.65 / 19
p0 1728 ± 2.715
1760
1750
1740
1730
1720
1710
1700
1690
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 9.536 / 19
p0 −338.9 ± 2224
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.1
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.01433
Std Dev 0.6904
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 986.3 / 19
p0 999.8 ± 1.572
1100
1050
1000
950
900
850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 4
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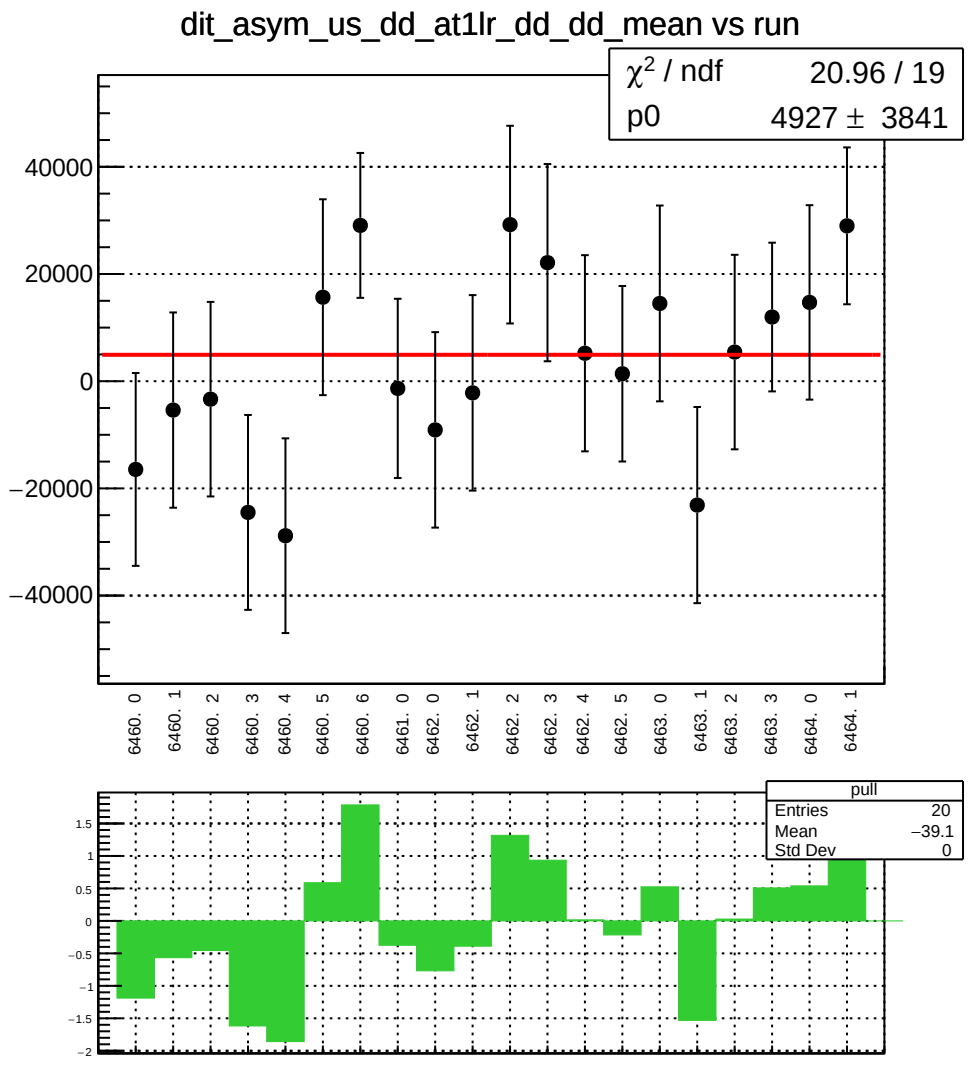
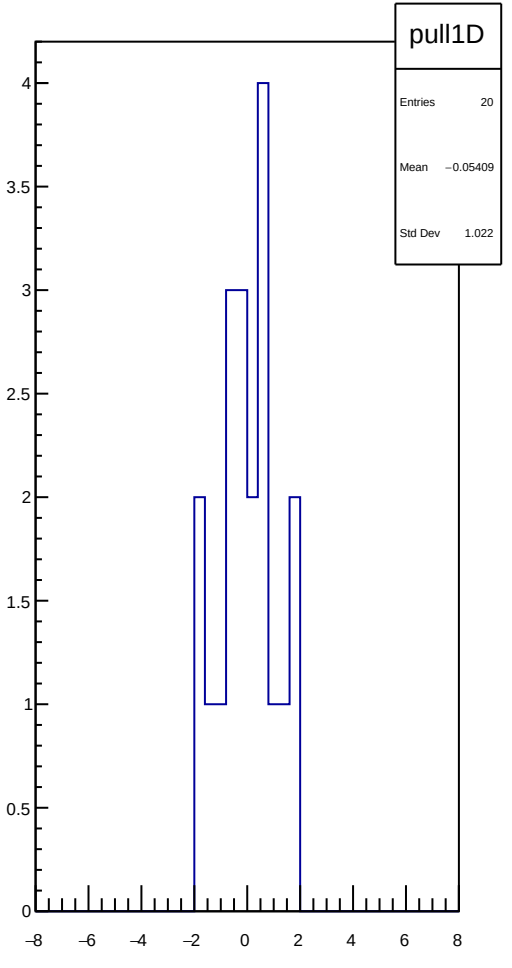
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 20.96 / 19
p0 4927 ± 3841
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −39.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 20
Mean −0.05409
Std Dev 1.022
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
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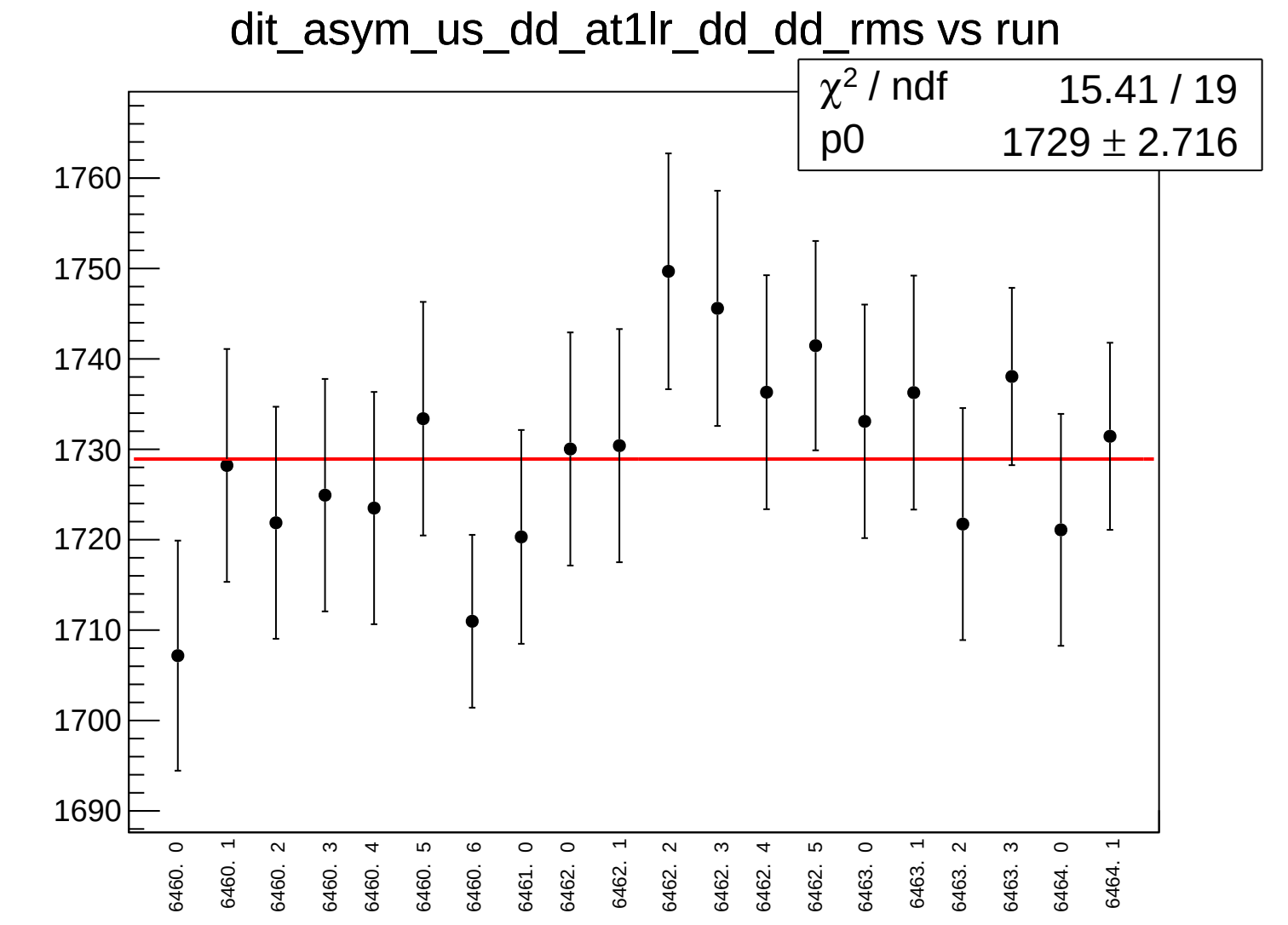
0
2
4
6
8


dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 15.41 / 19
p0 1729 ± 2.716
1760
1750
1740
1730
1720
1710
1700
1690
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
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6463. 1
6463. 2
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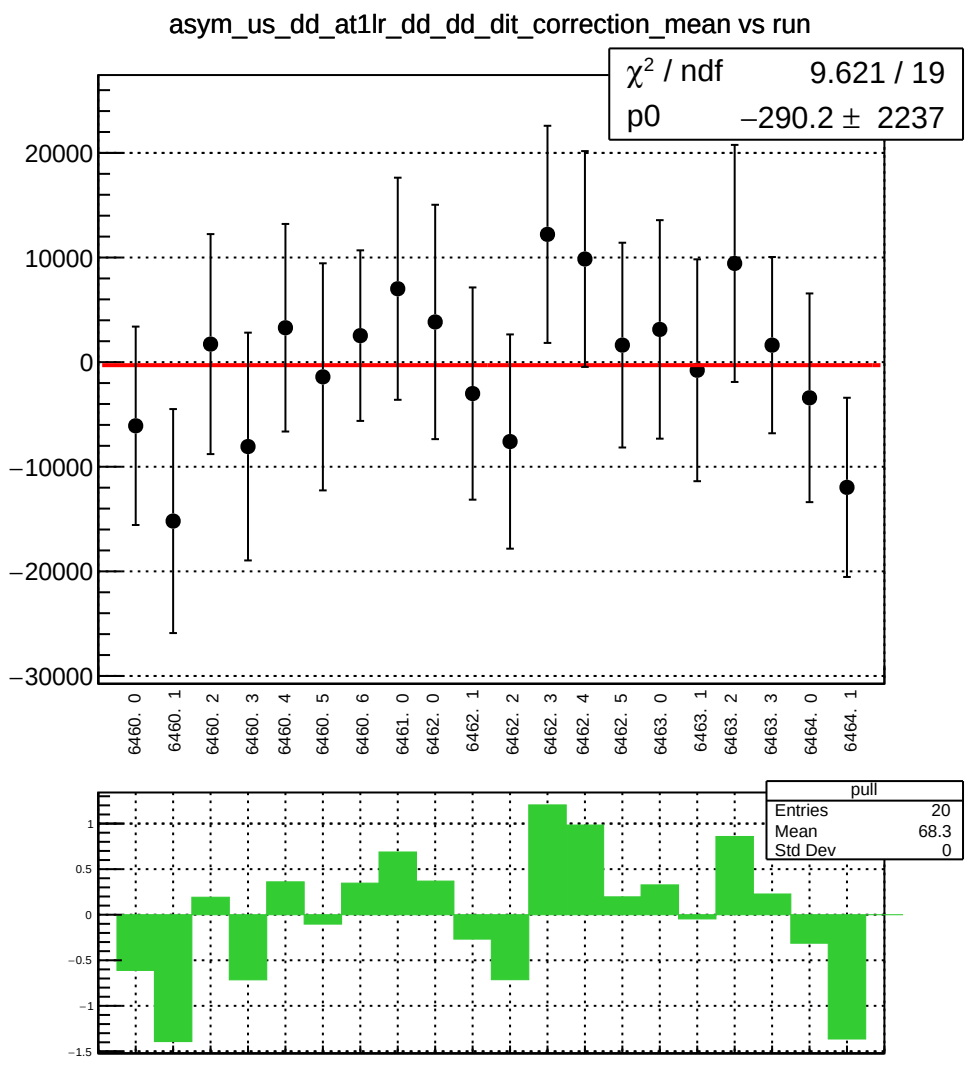
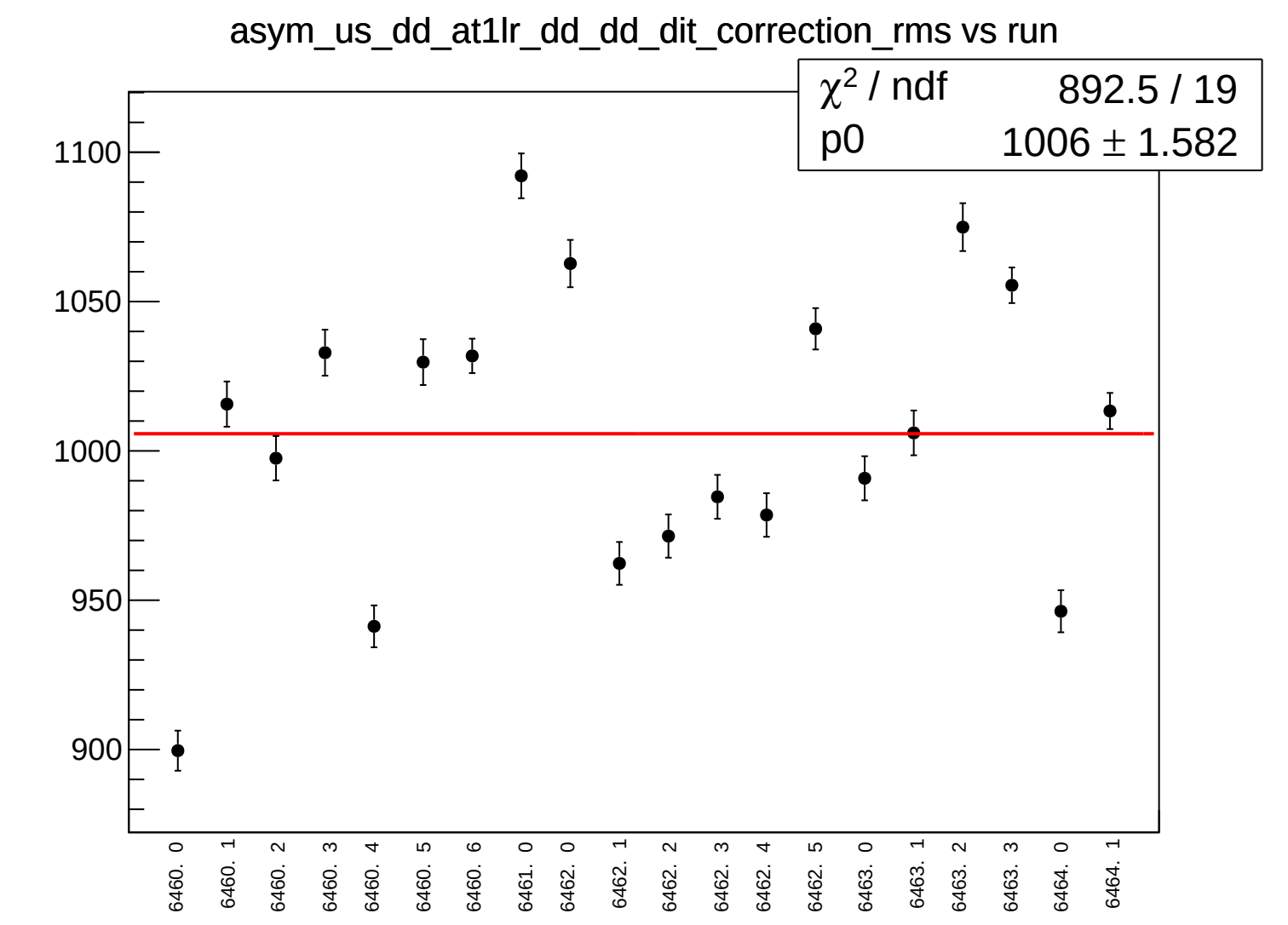
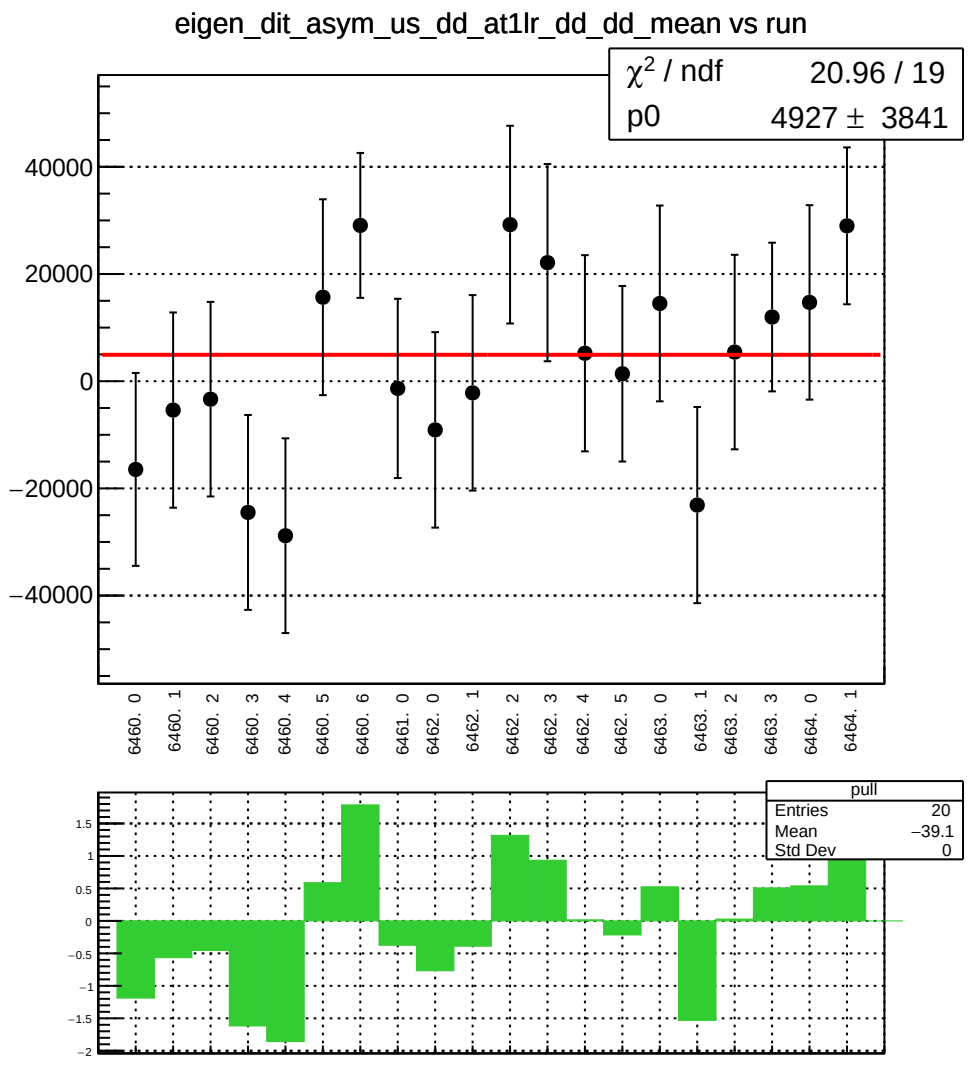
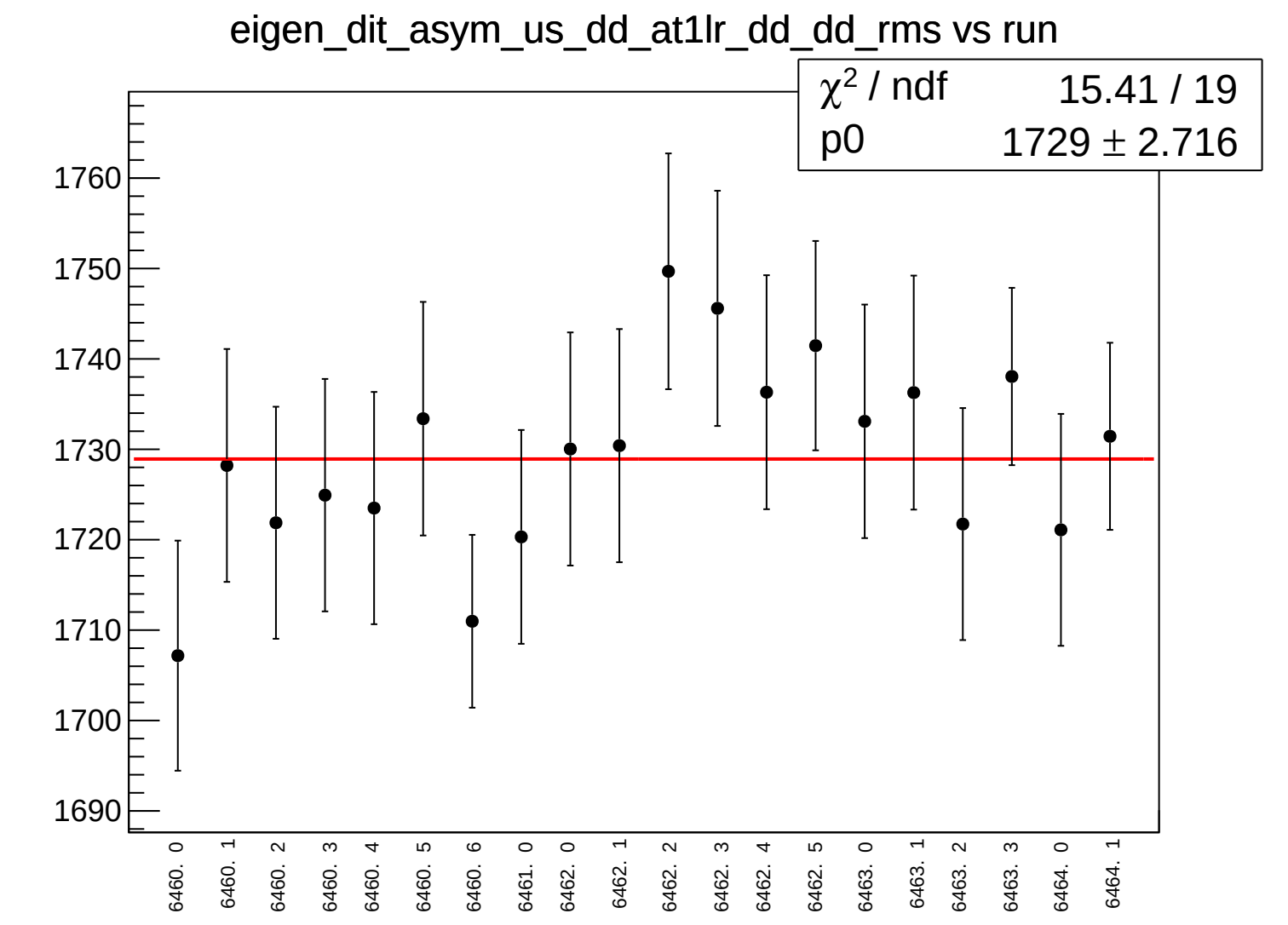
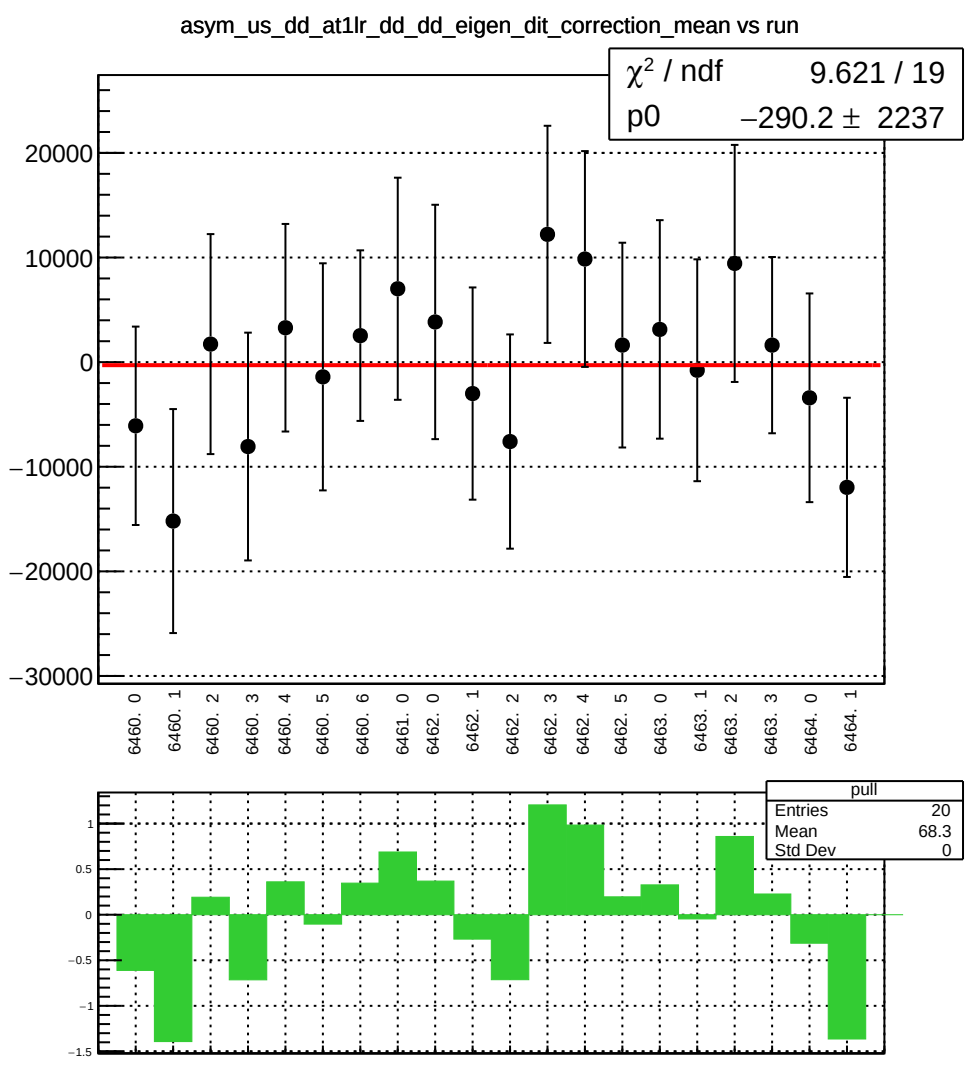
6464. 1

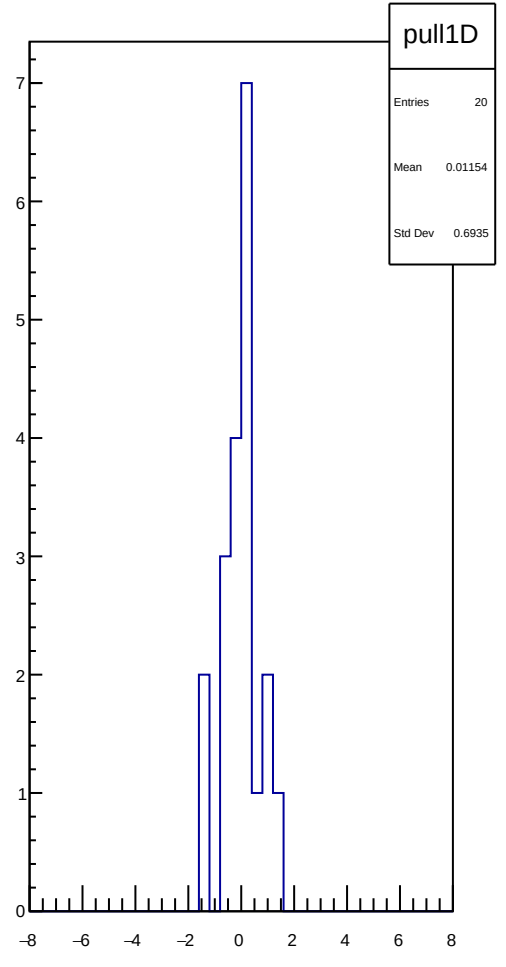

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 9.621 / 19
p0 −290.2 ± 2237
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 68.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01154
Std Dev 0.6935
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 892.5 / 19
p0 1006 ± 1.582
1100
1050
1000
950
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 20.96 / 19
p0 4927 ± 3841
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −39.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.05409
Std Dev 1.022
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 15.41 / 19
p0 1729 ± 2.716
1760
1750
1740
1730
1720
1710
1700
1690
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 9.621 / 19
p0 −290.2 ± 2237
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 68.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean 0.01154
Std Dev 0.6935
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6
5
4
3
2
1
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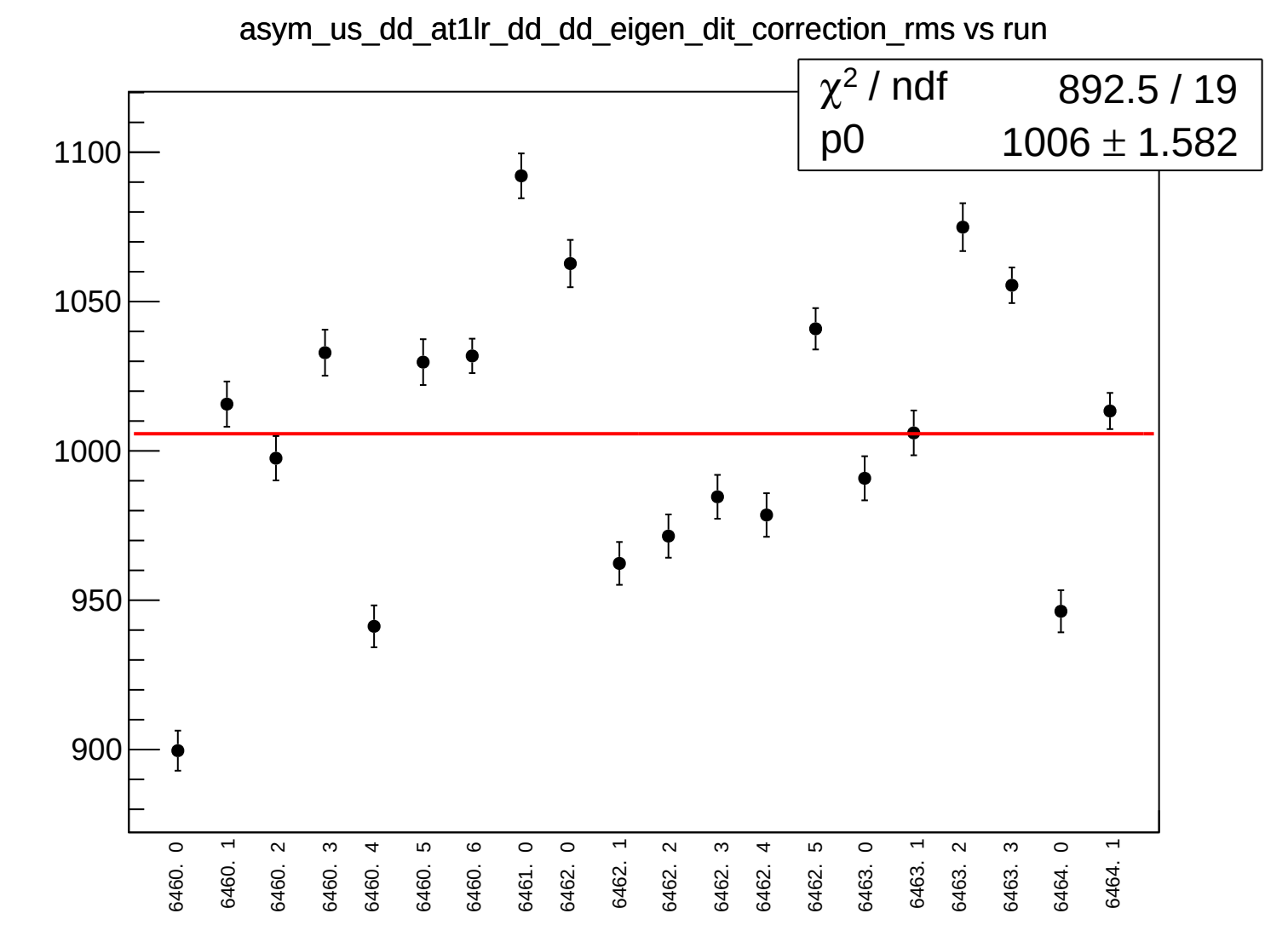
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 892.5 / 19
p0 1006 ± 1.582
1100
1050
1000
950
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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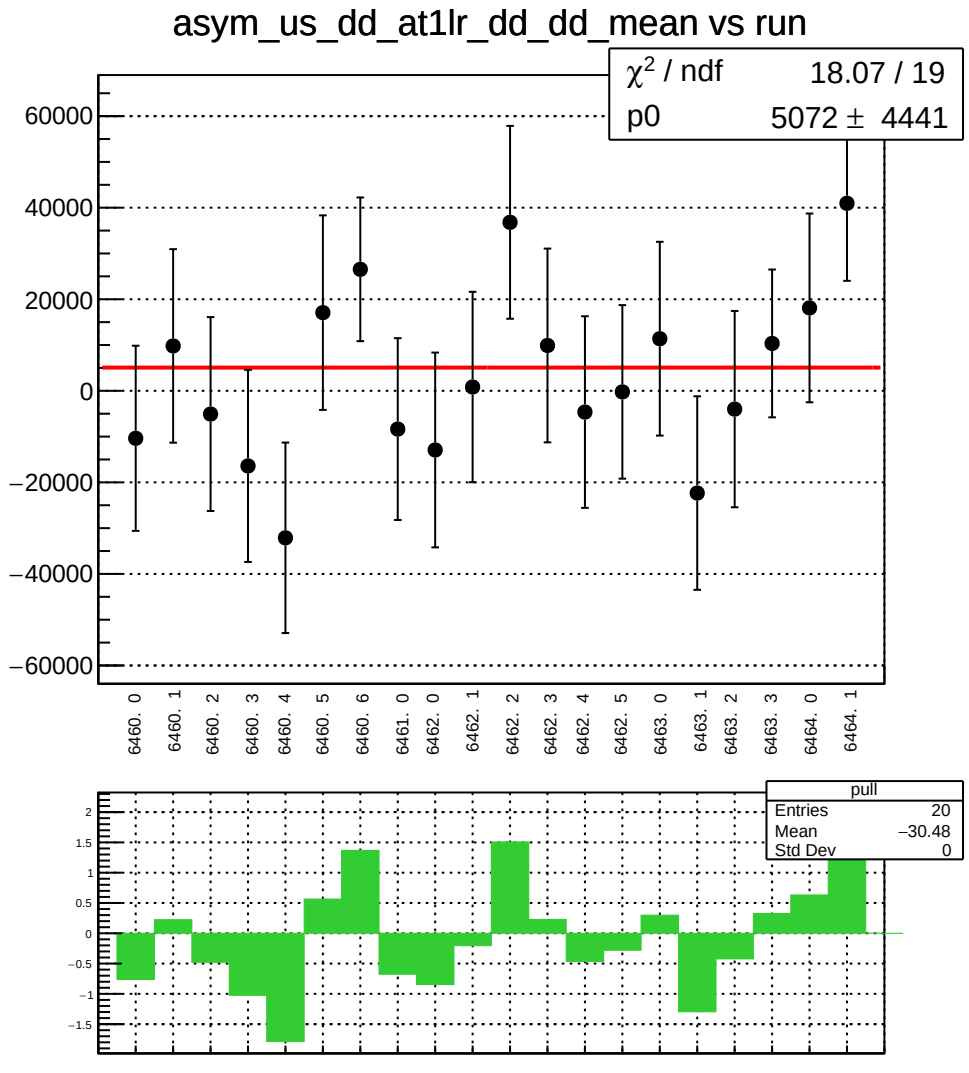
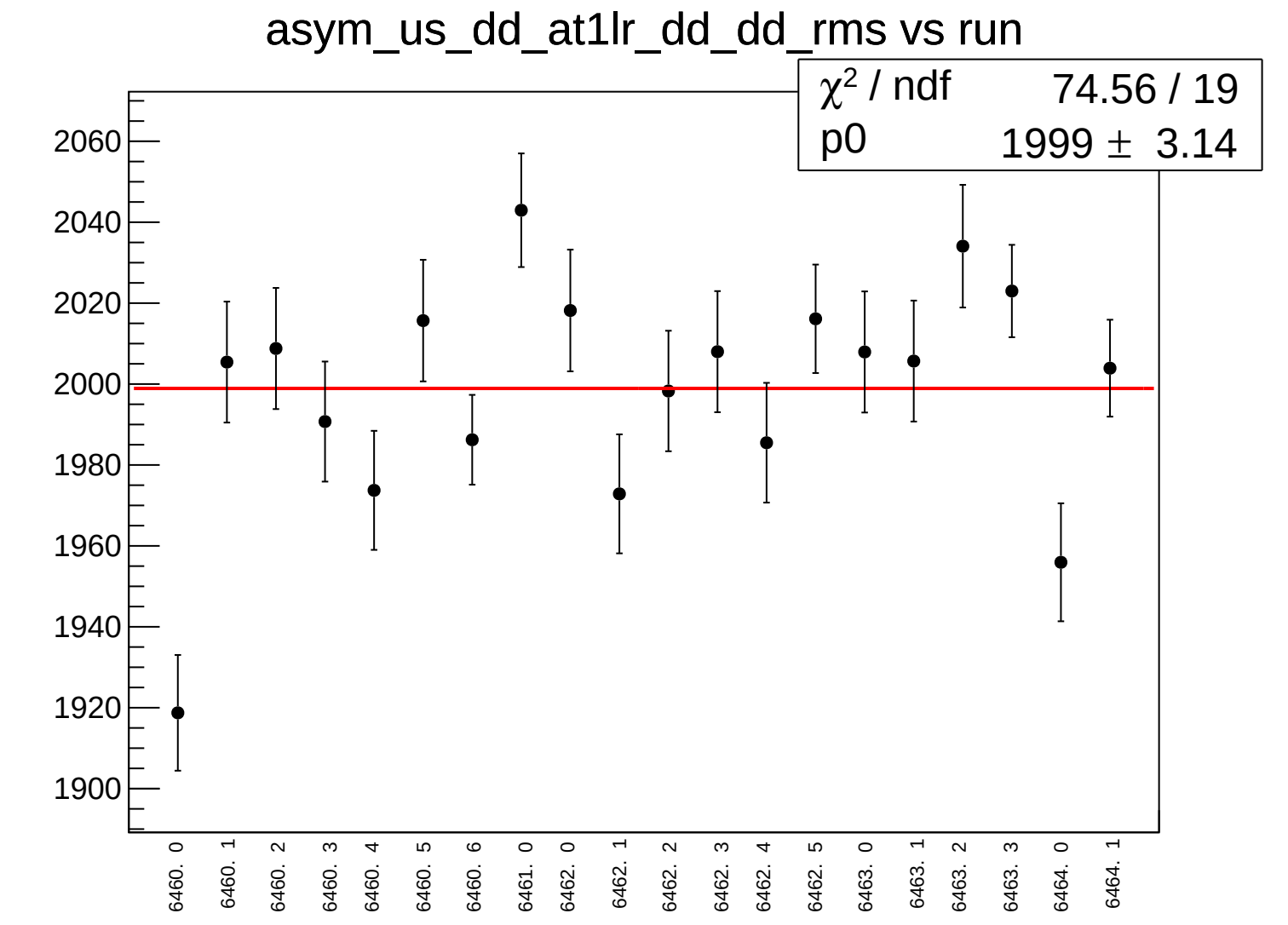
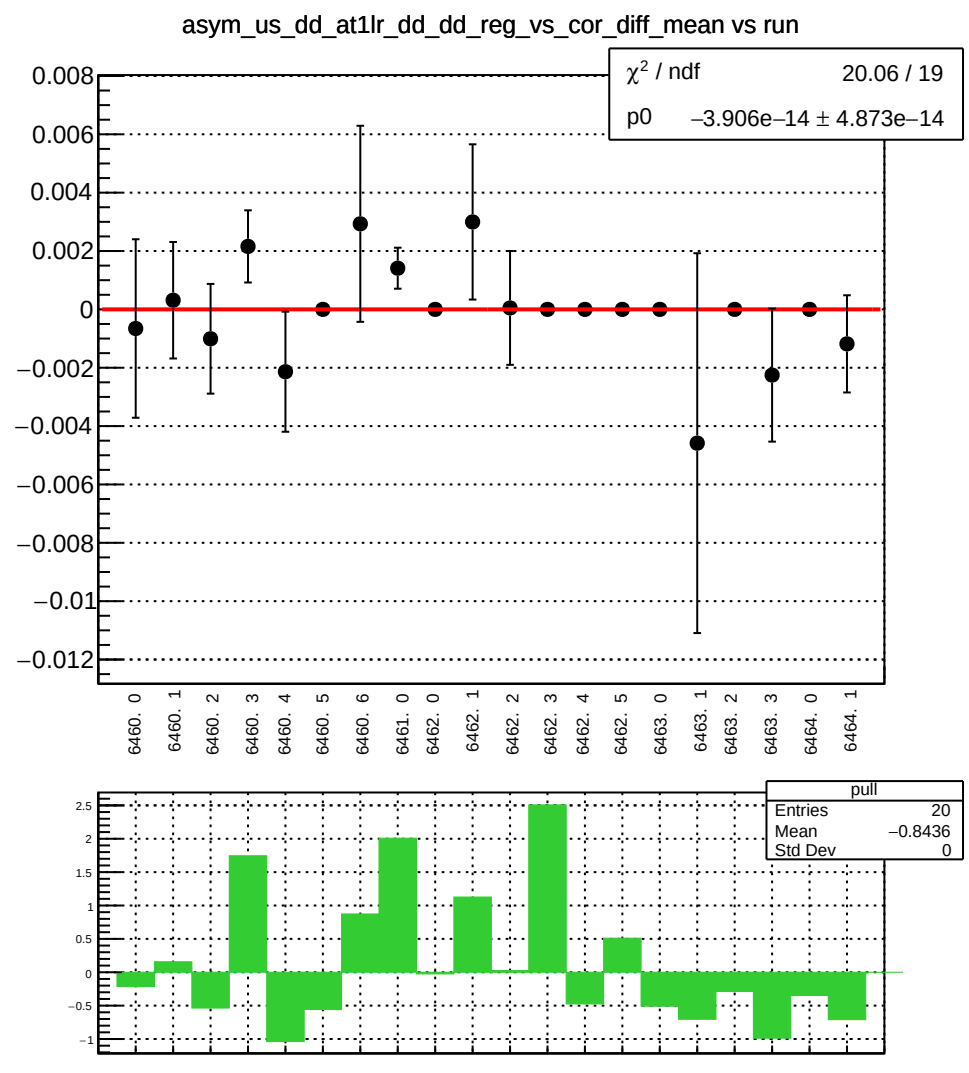
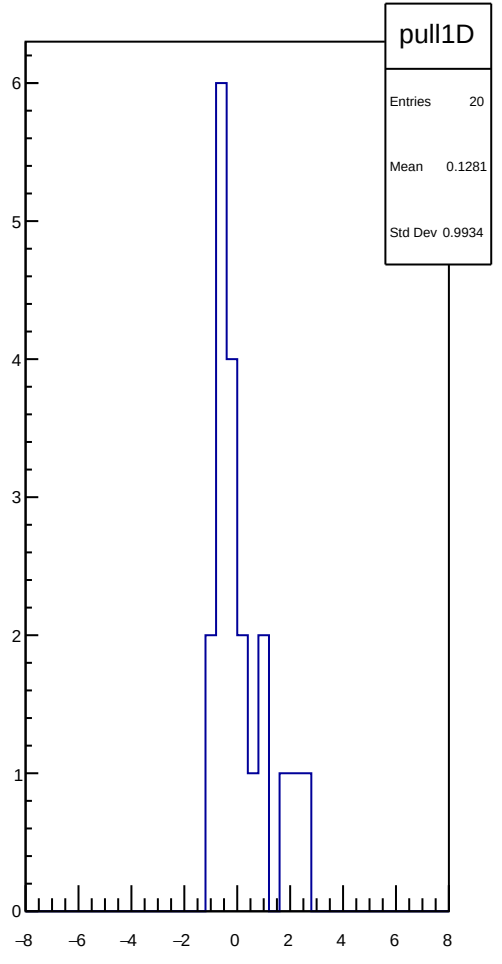
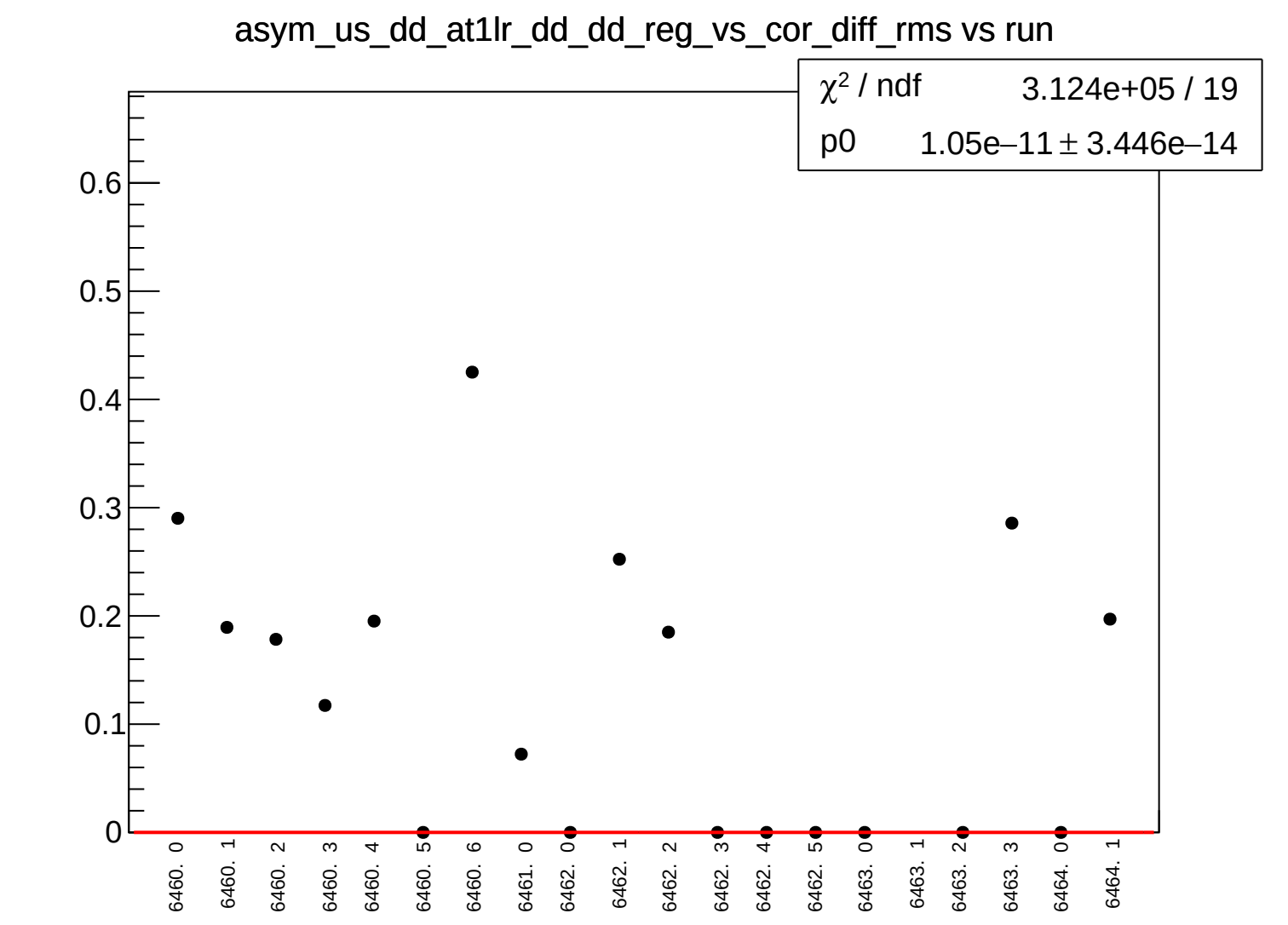
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

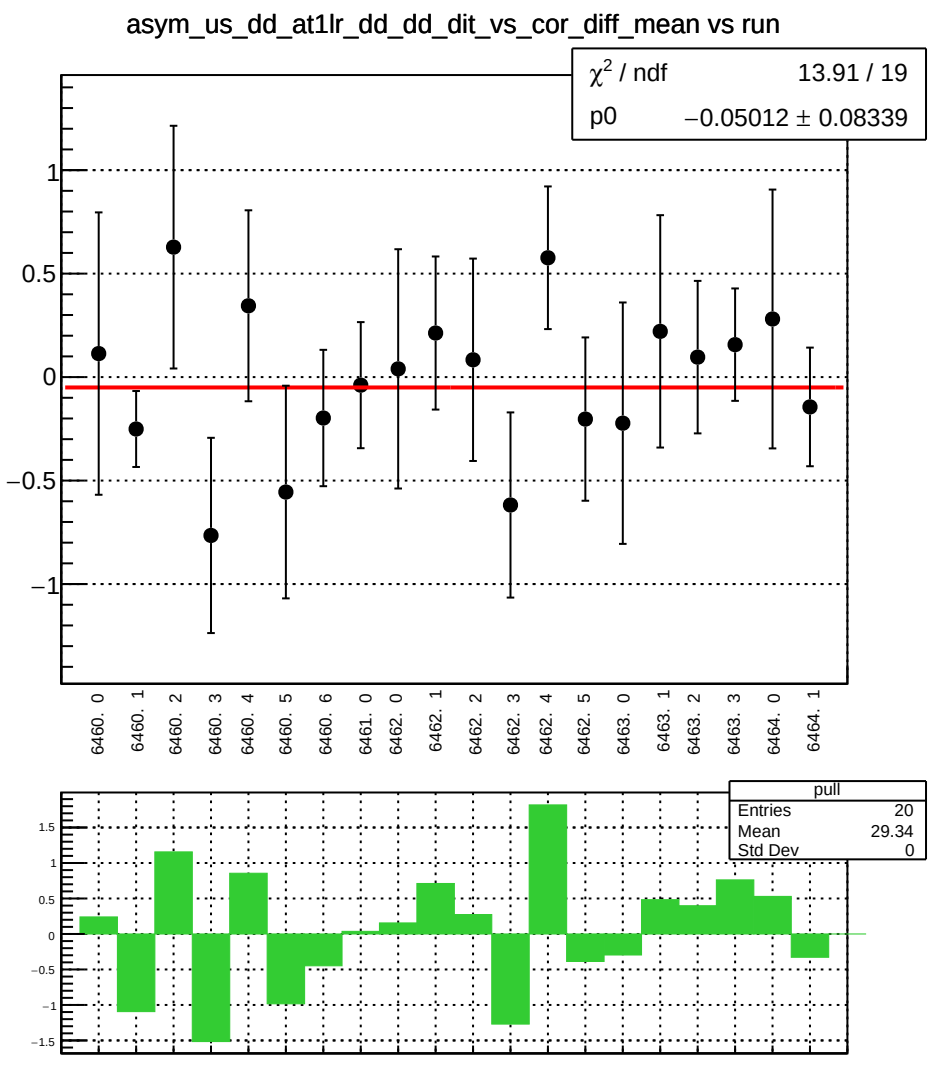

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 18.07 / 19
p0 5072 ± 4441
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −30.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.04883
Std Dev 0.9493
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

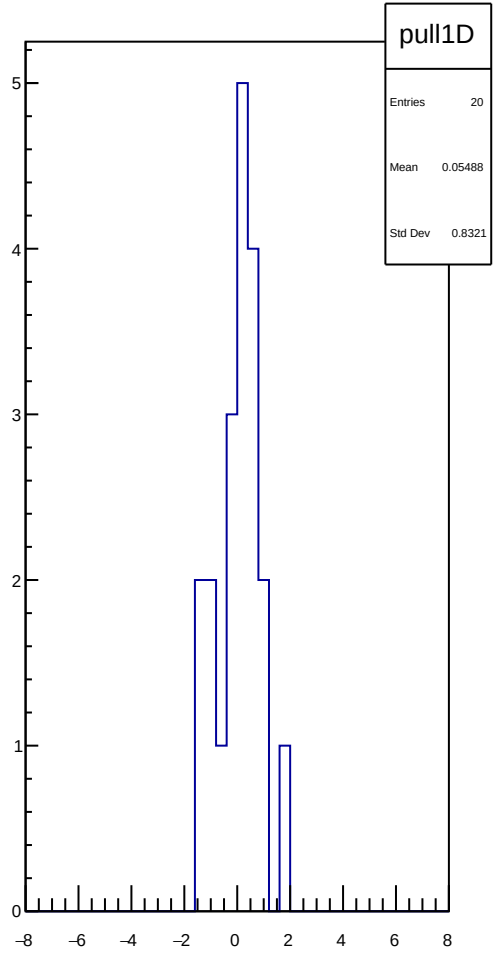

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 74.56 / 19
p0 1999 ± 3.14
2060
2040
2020
2000
1980
1960
1940
1920
1900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

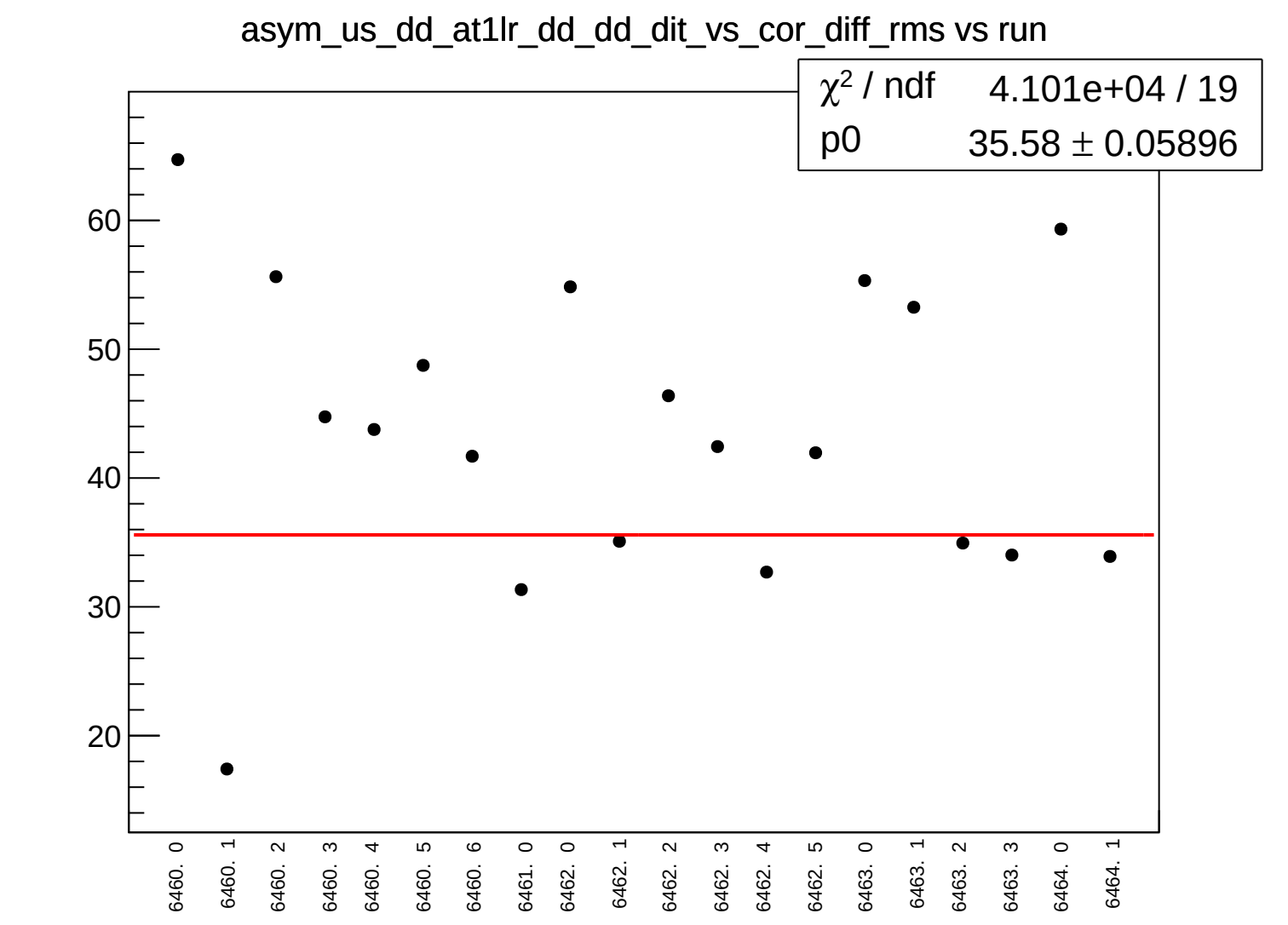

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.06 / 19
p0 −3.906e−14 ± 4.873e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.8436
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

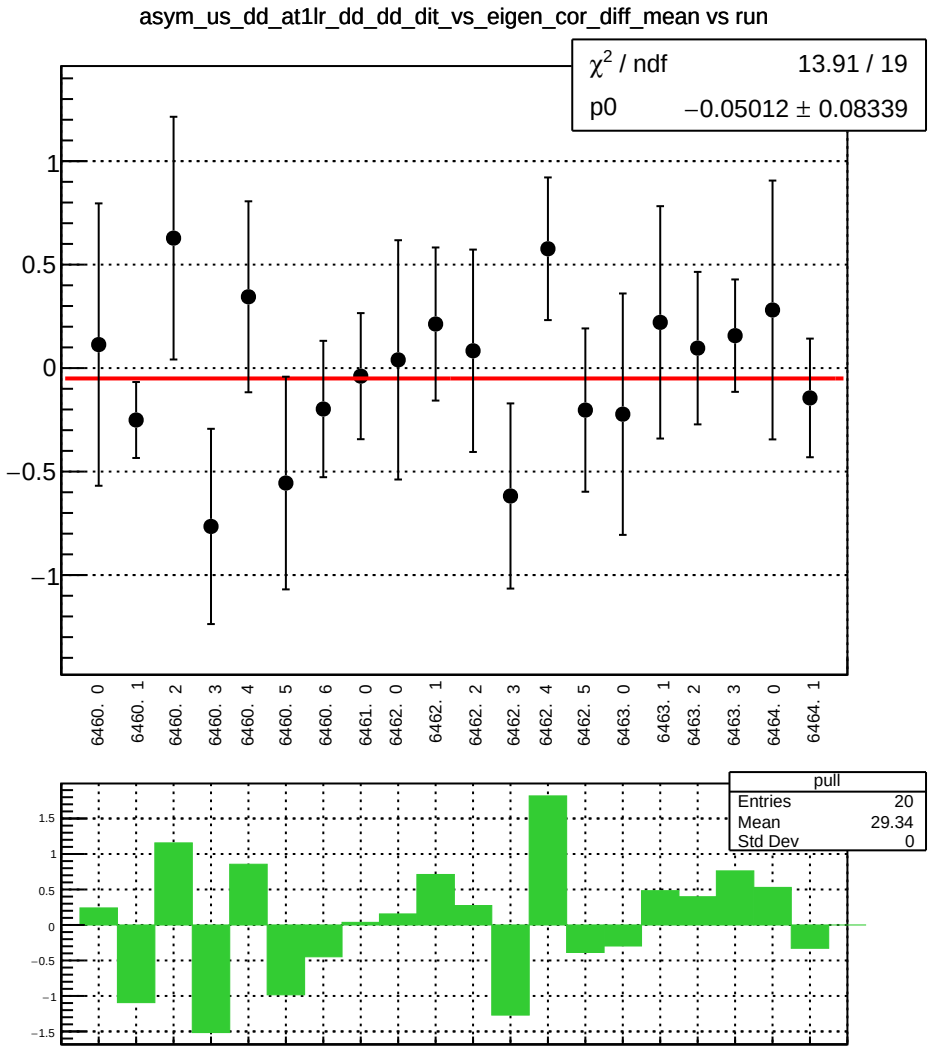

pull1D
Entries 20
Mean 0.1281
Std Dev 0.9934
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

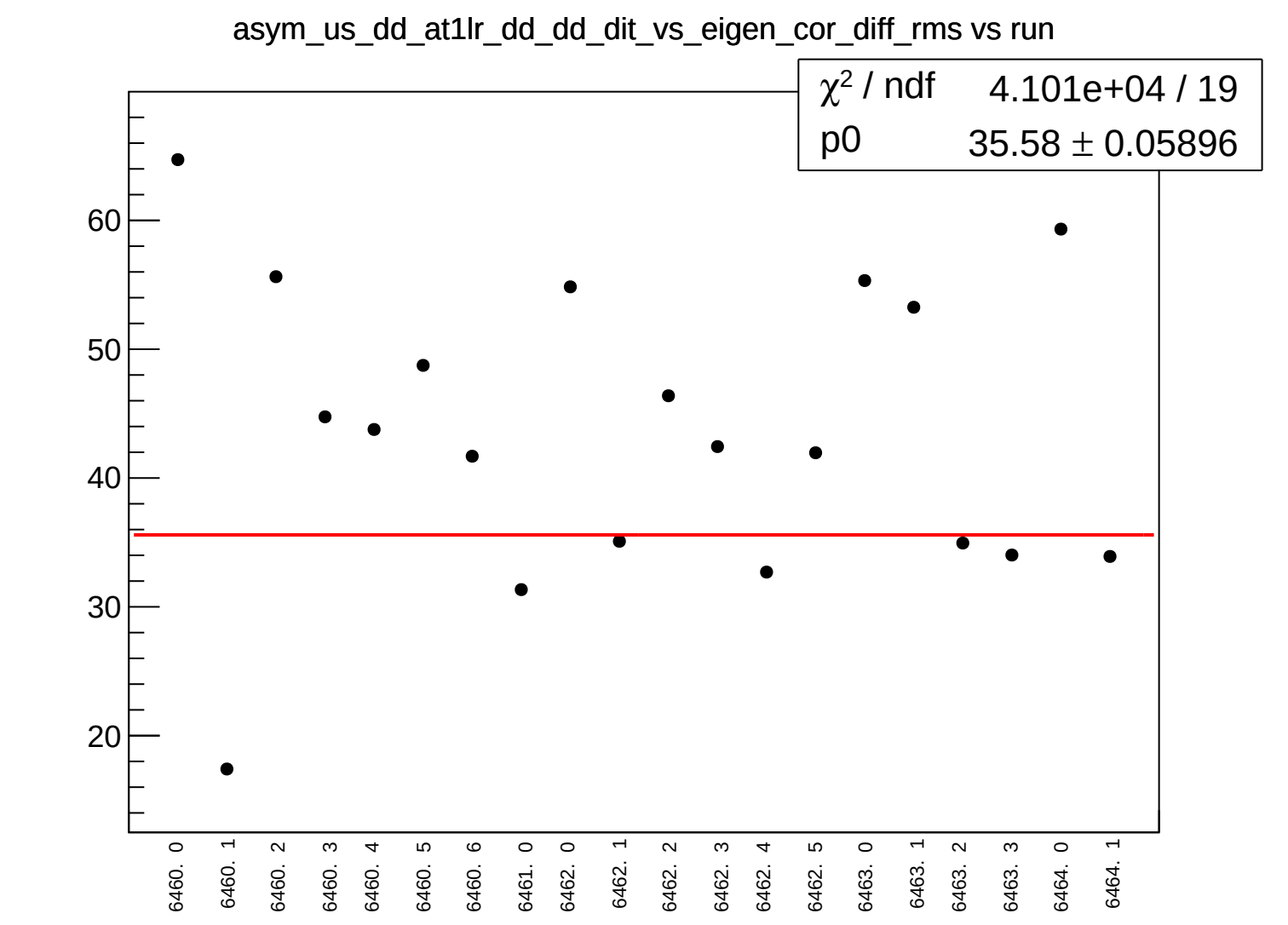

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.124e+05 / 19
p0 1.05e−11 ± 3.446e−14
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

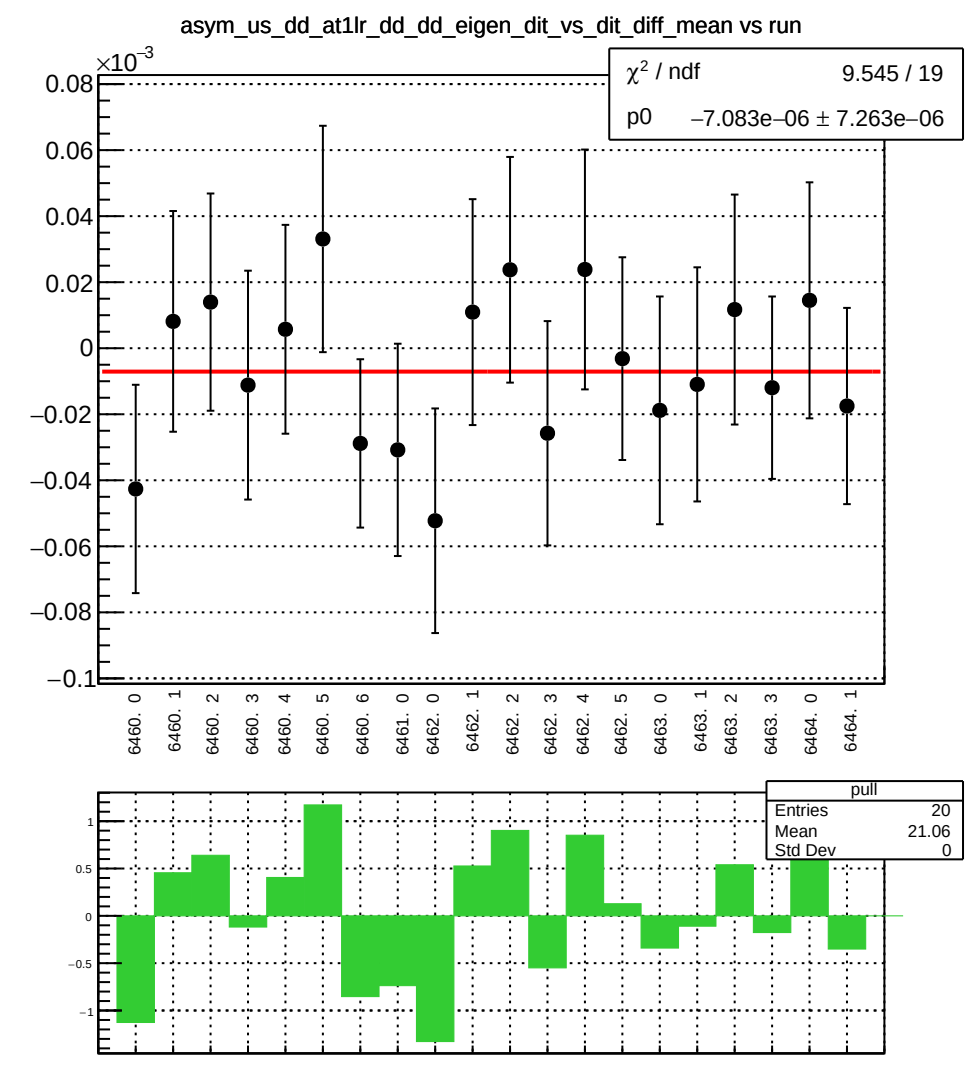

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 13.91 / 19
p0 −0.05012 ± 0.08339
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

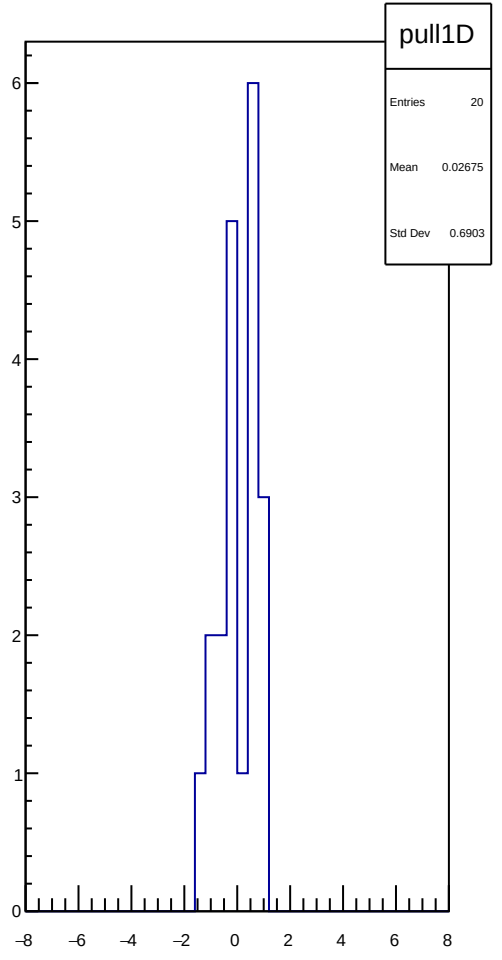

pull1D
Entries 20
Mean 0.05488
Std Dev 0.8321
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

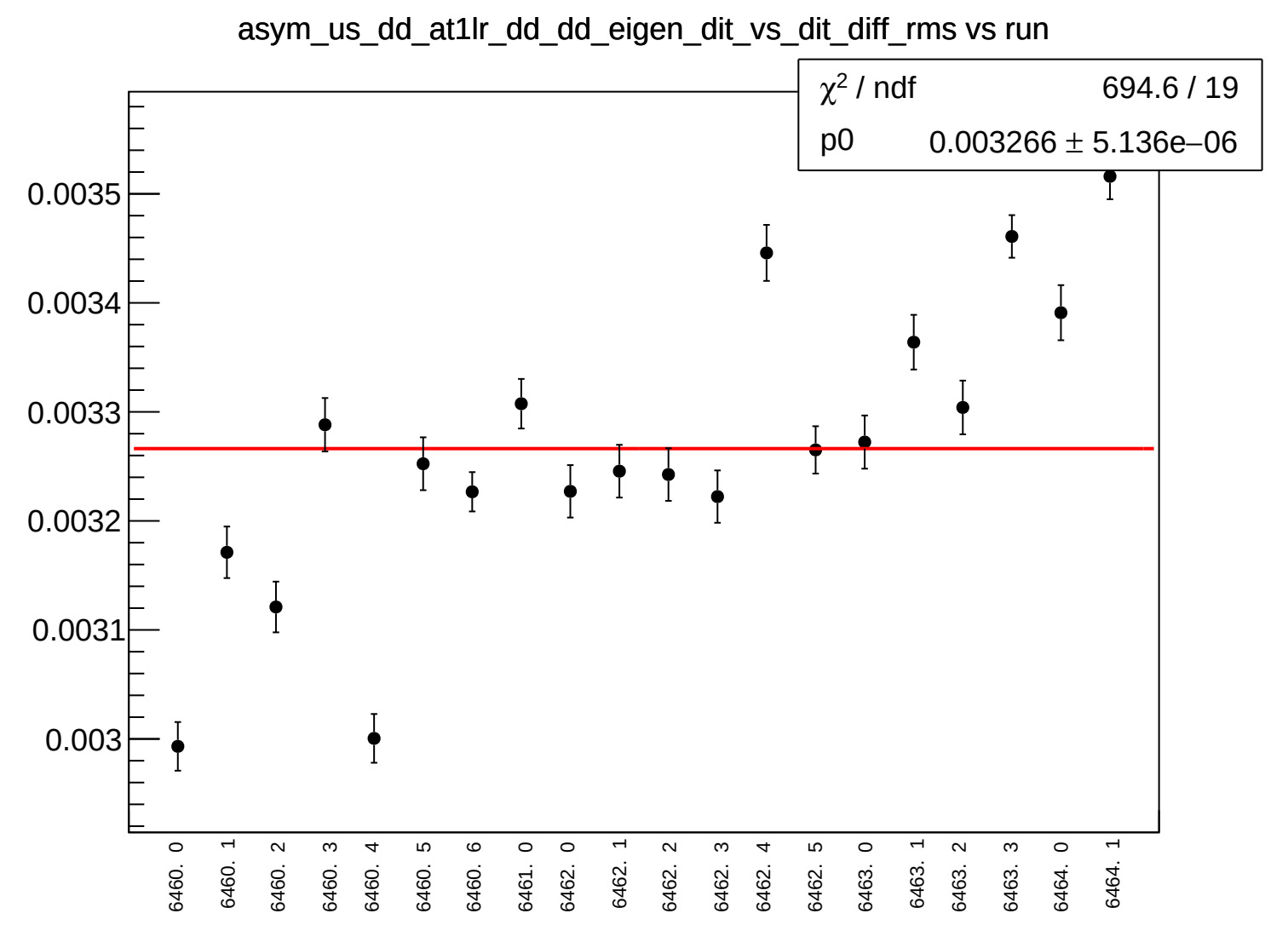

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.101e+04 / 19
p0 35.58 ± 0.05896
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

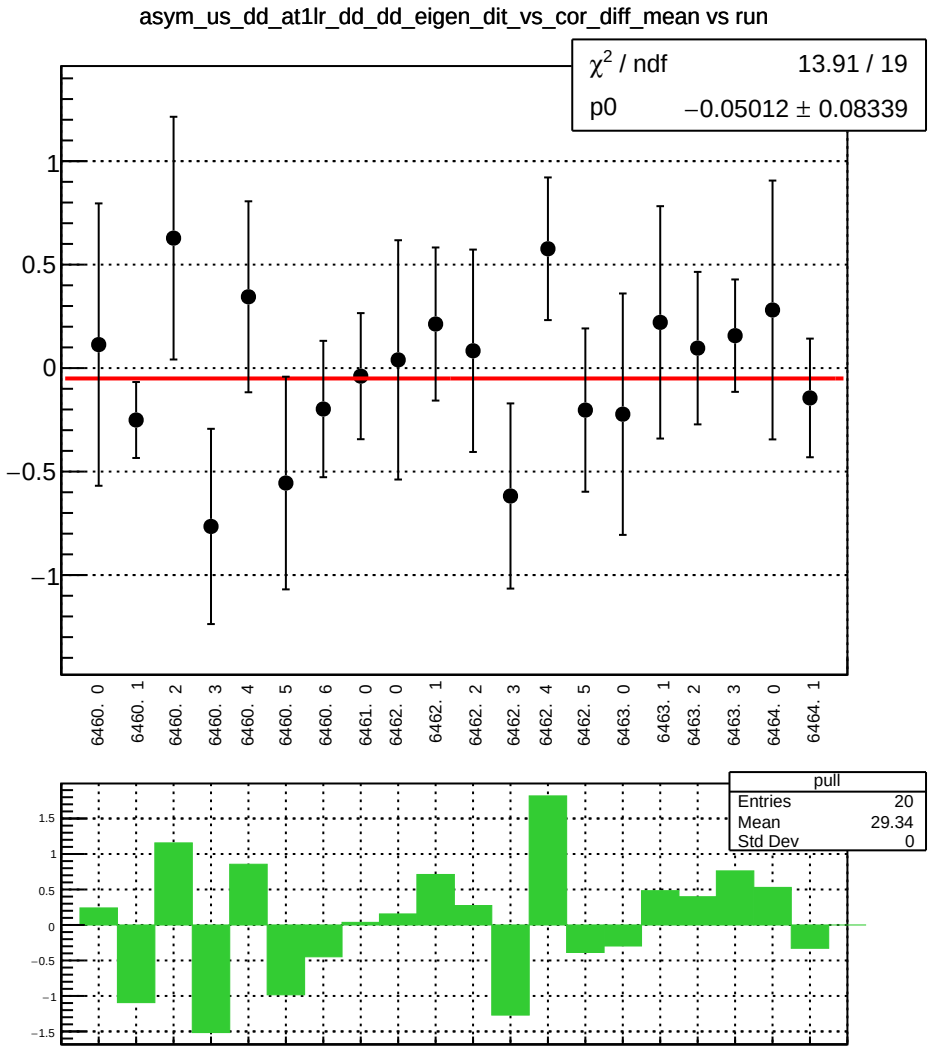

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 13.91 / 19
p0 −0.05012 ± 0.08339
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.05488
Std Dev 0.8321
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

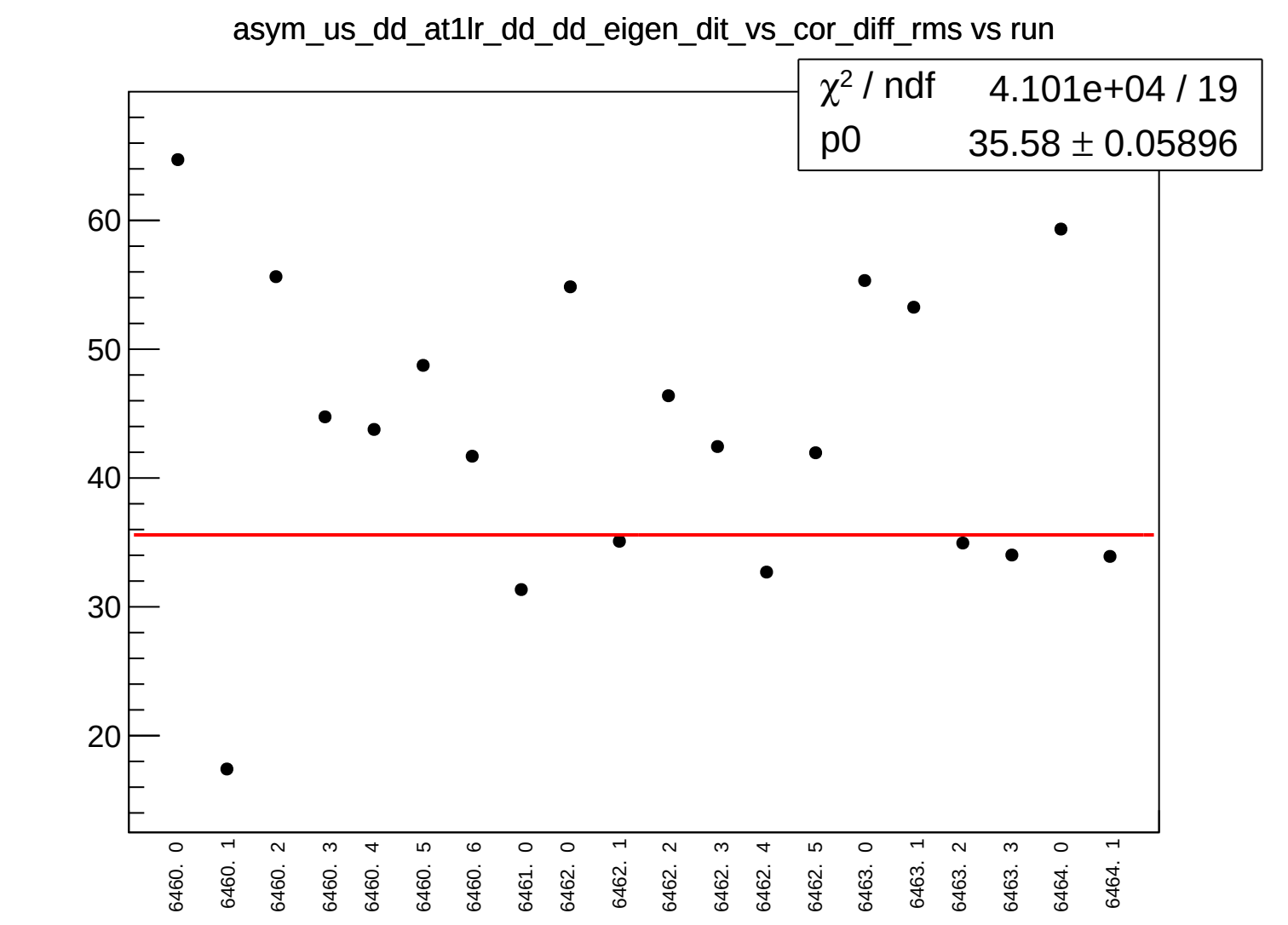

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.101e+04 / 19
p0 35.58 ± 0.05896
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

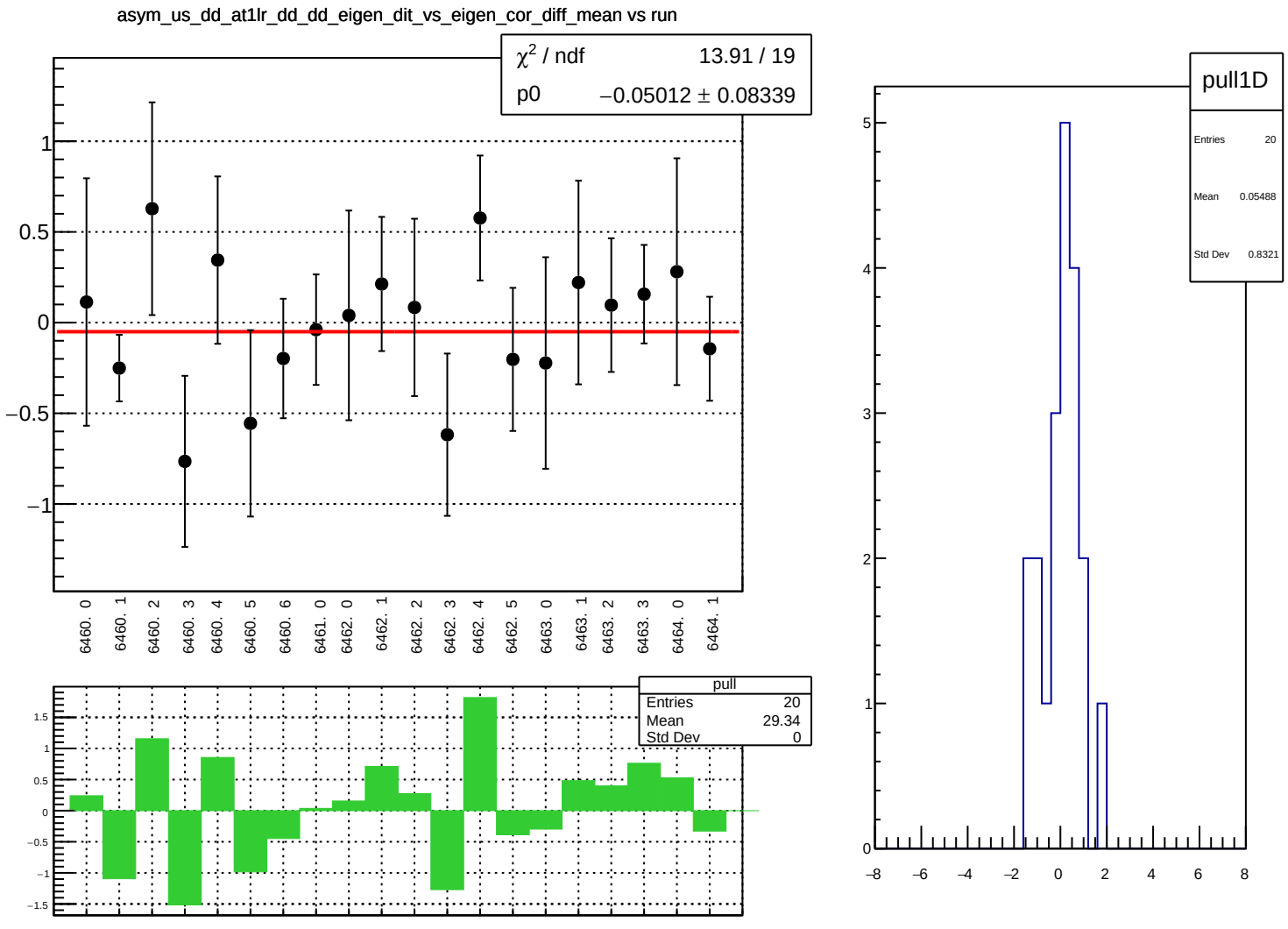

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 9.545 / 19
p0 −7.083e−06 ± 7.263e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 21.06
Std Dev 0
1
0.5
0
−0.5
−1

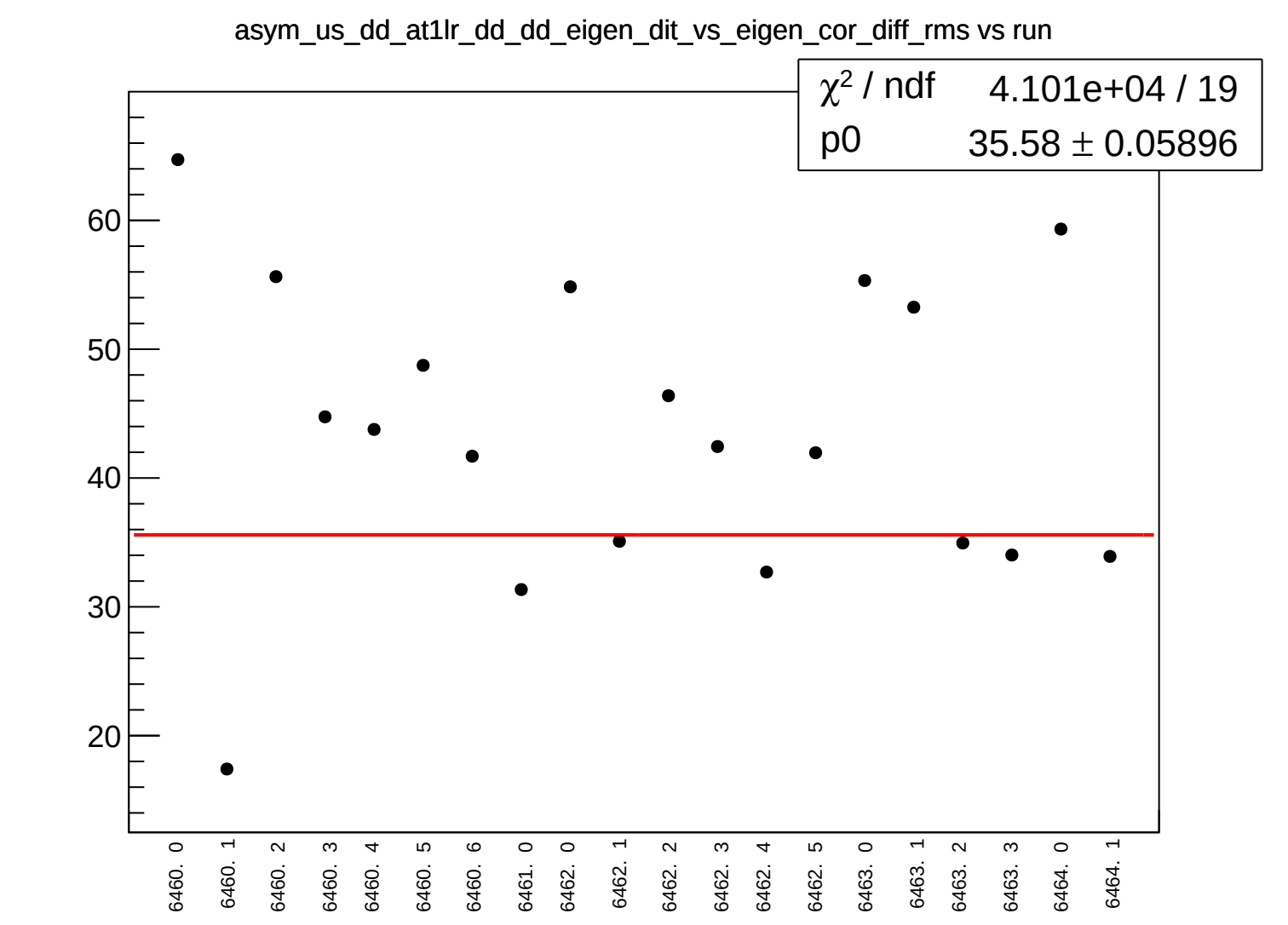

pull1D
Entries 20
Mean 0.02675
Std Dev 0.6903
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

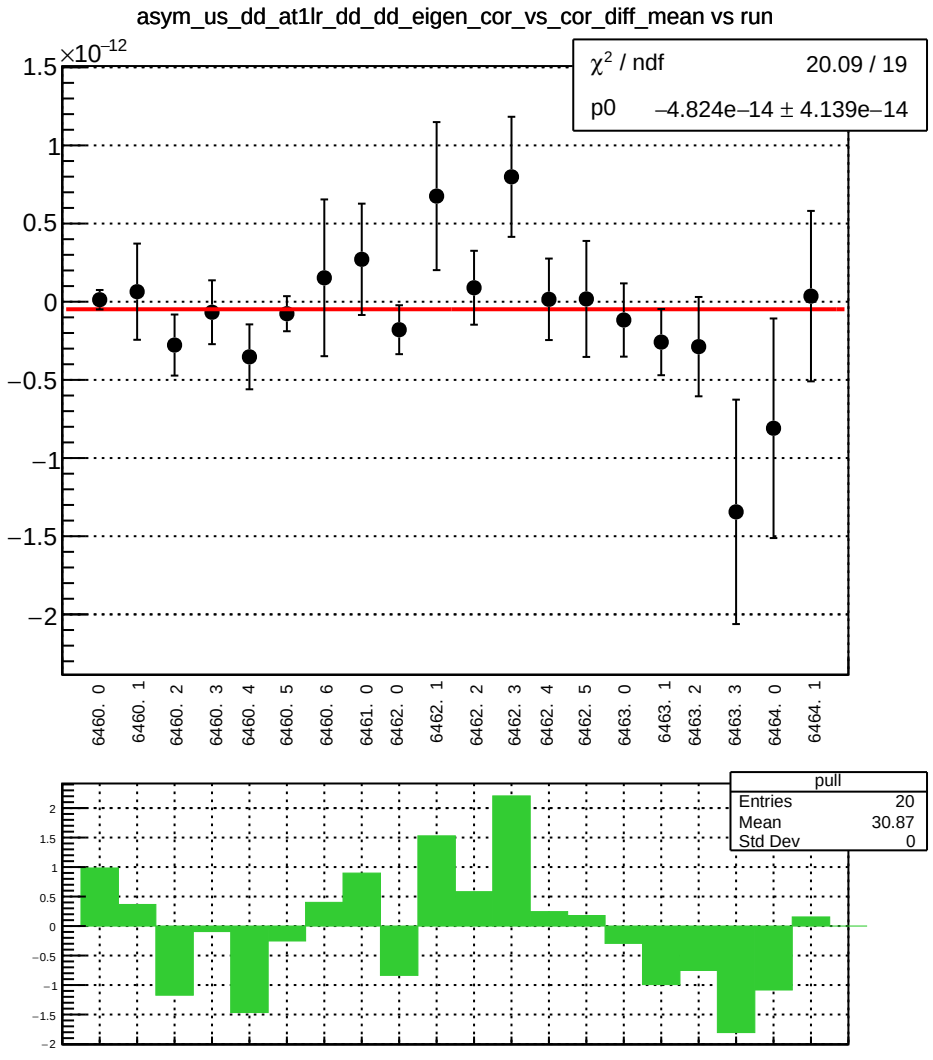

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 694.6 / 19
p0 0.003266 ± 5.136e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

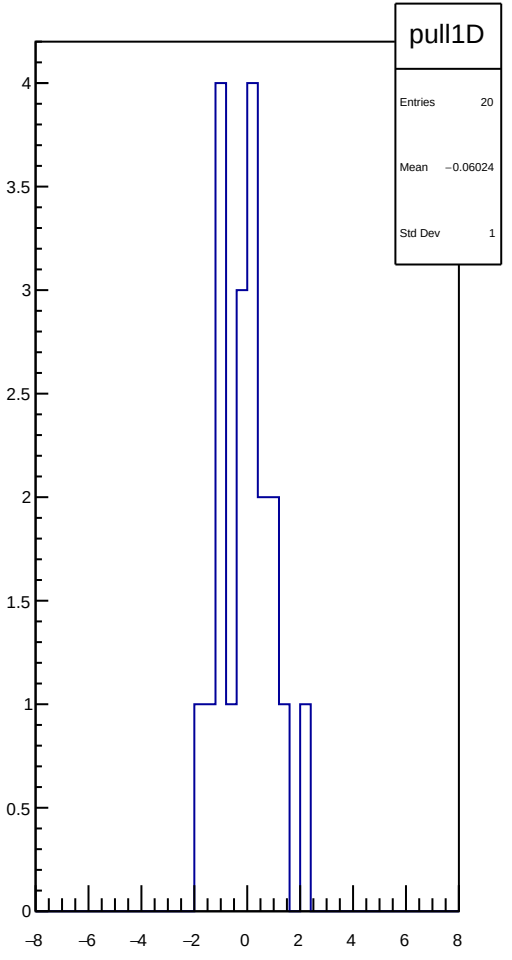

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 13.91 / 19
p0 −0.05012 ± 0.08339
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.05488
Std Dev 0.8321
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

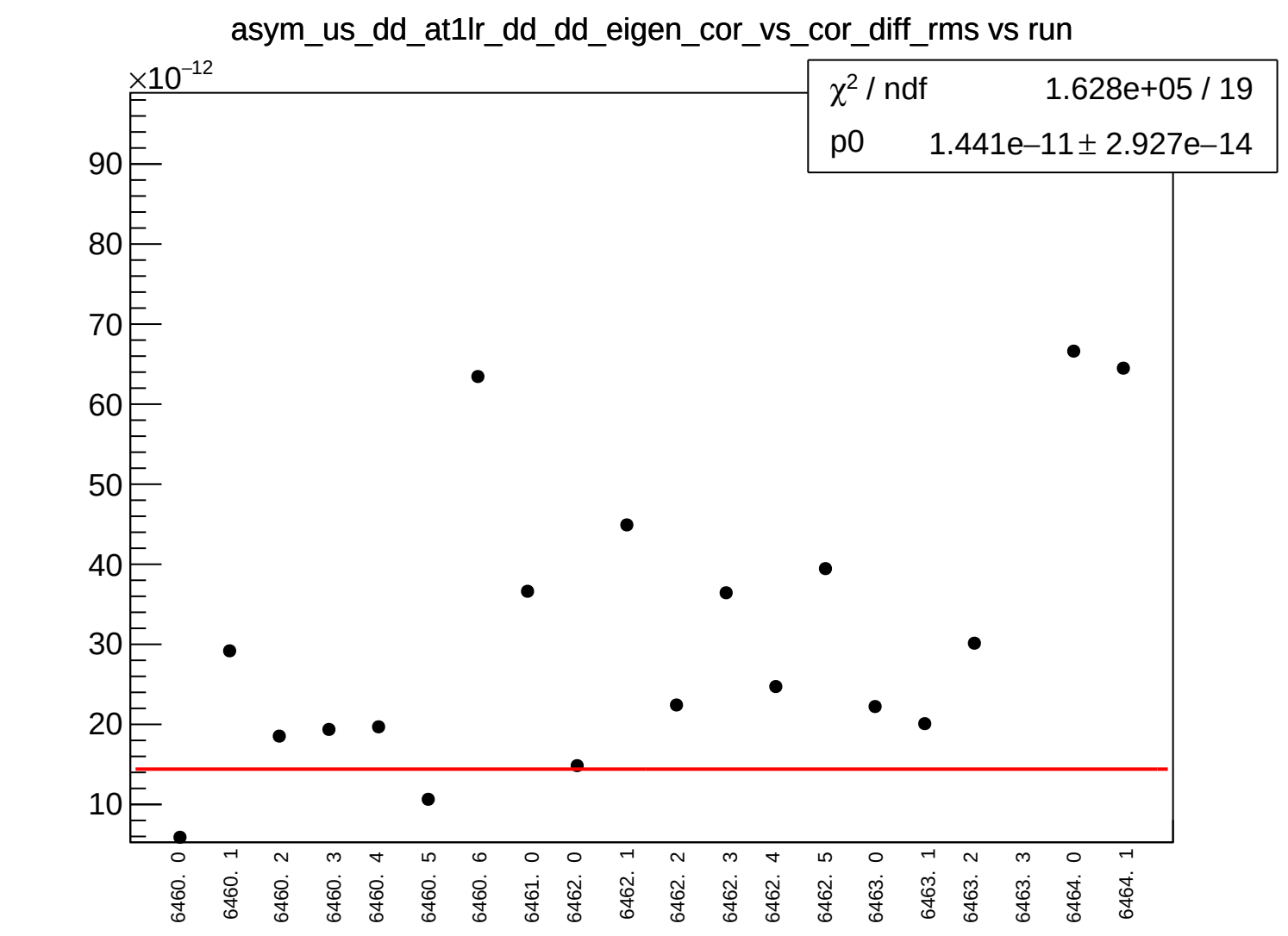

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.101e+04 / 19
p0 35.58 ± 0.05896
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

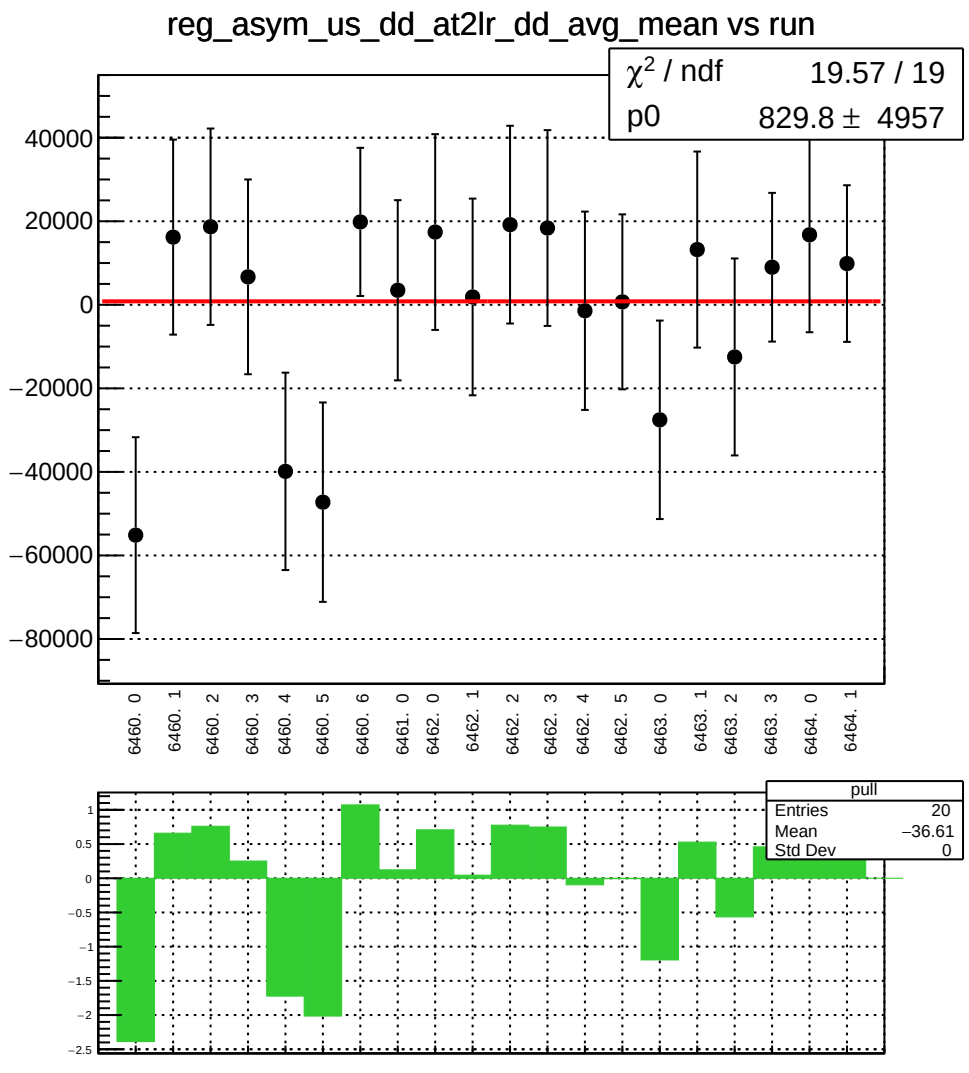

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 13.91 / 19
p0 −0.05012 ± 0.08339
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.05488
Std Dev 0.8321
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

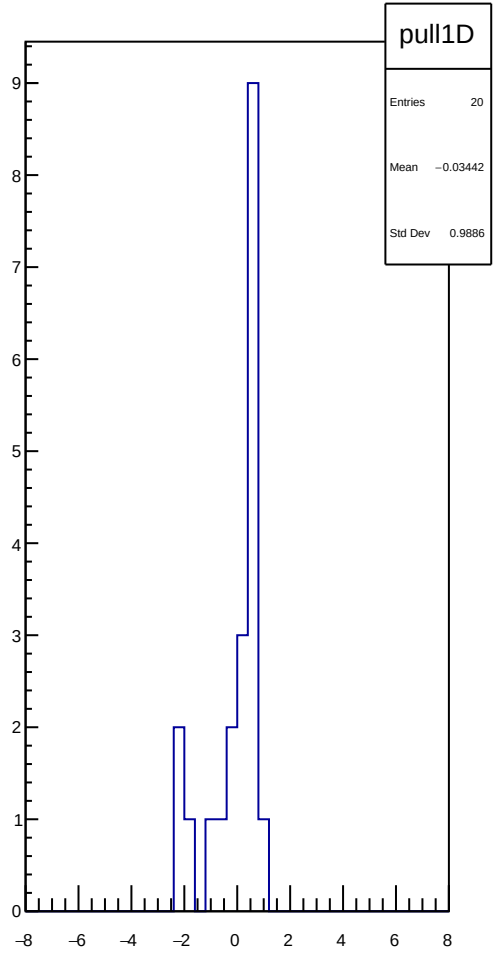

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.101e+04 / 19
p0 35.58 ± 0.05896
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

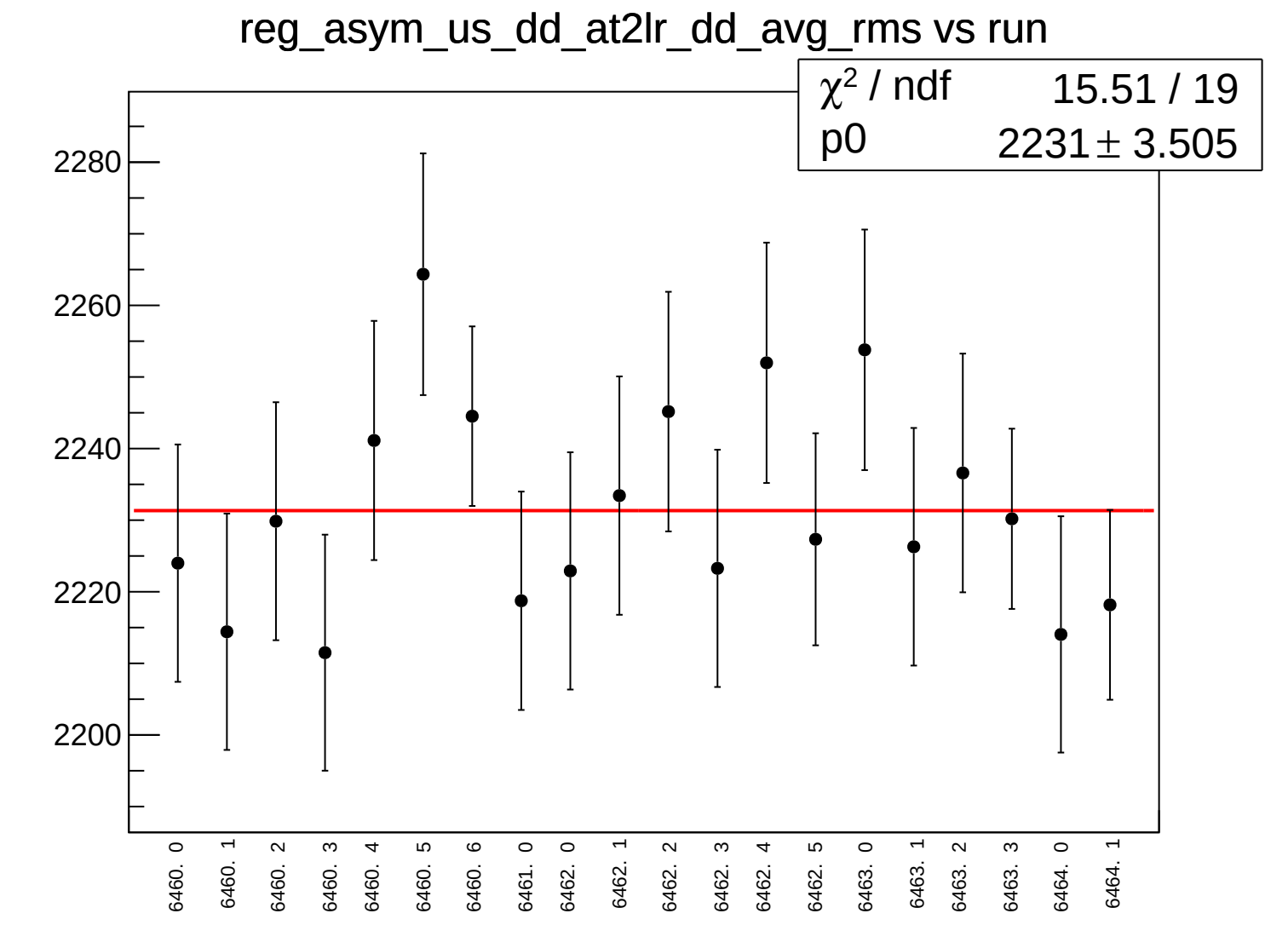

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.09 / 19
p0 −4.824e−14 ± 4.139e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

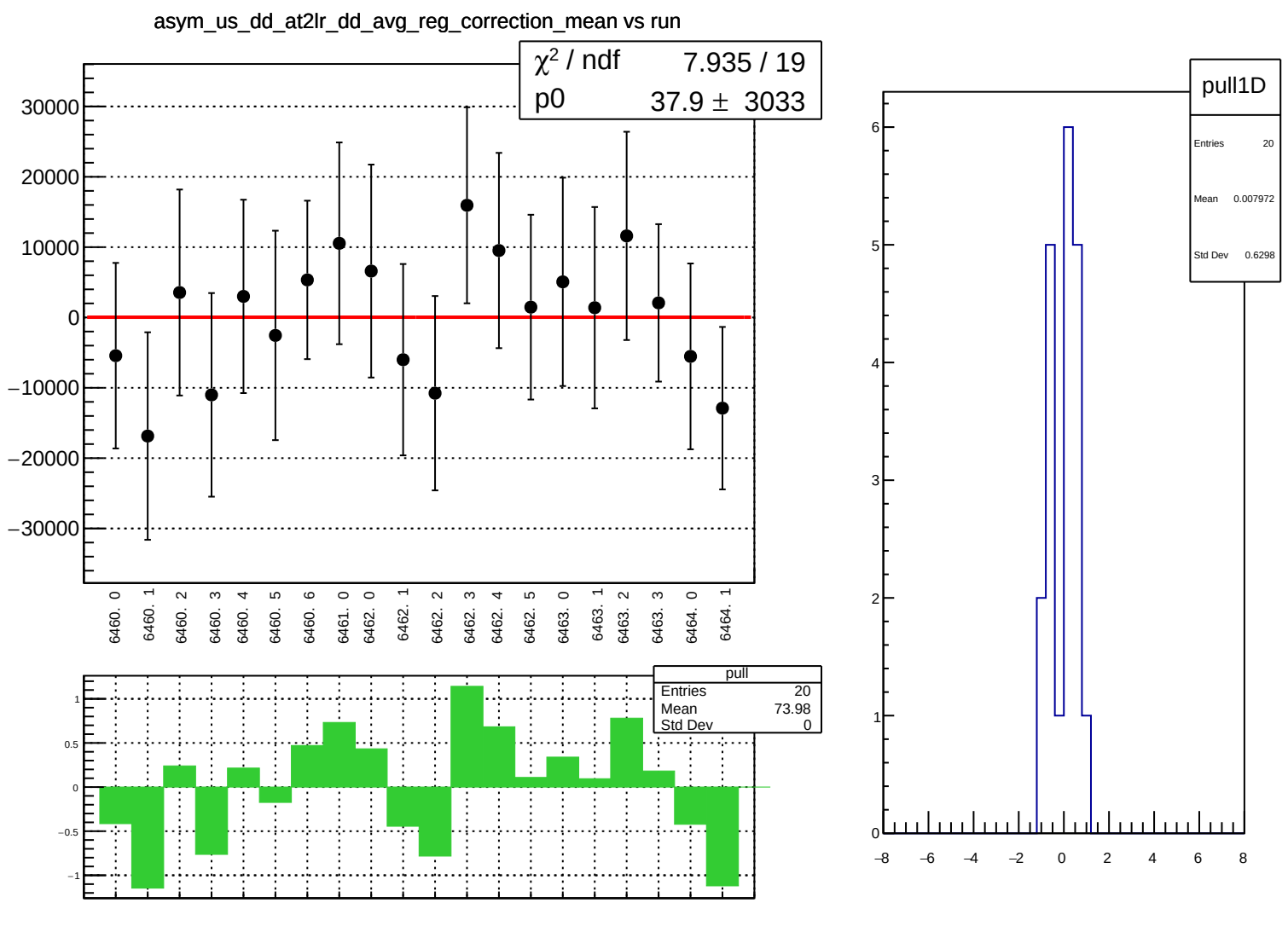

pull1D
Entries 20
Mean −0.06024
Std Dev 1
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

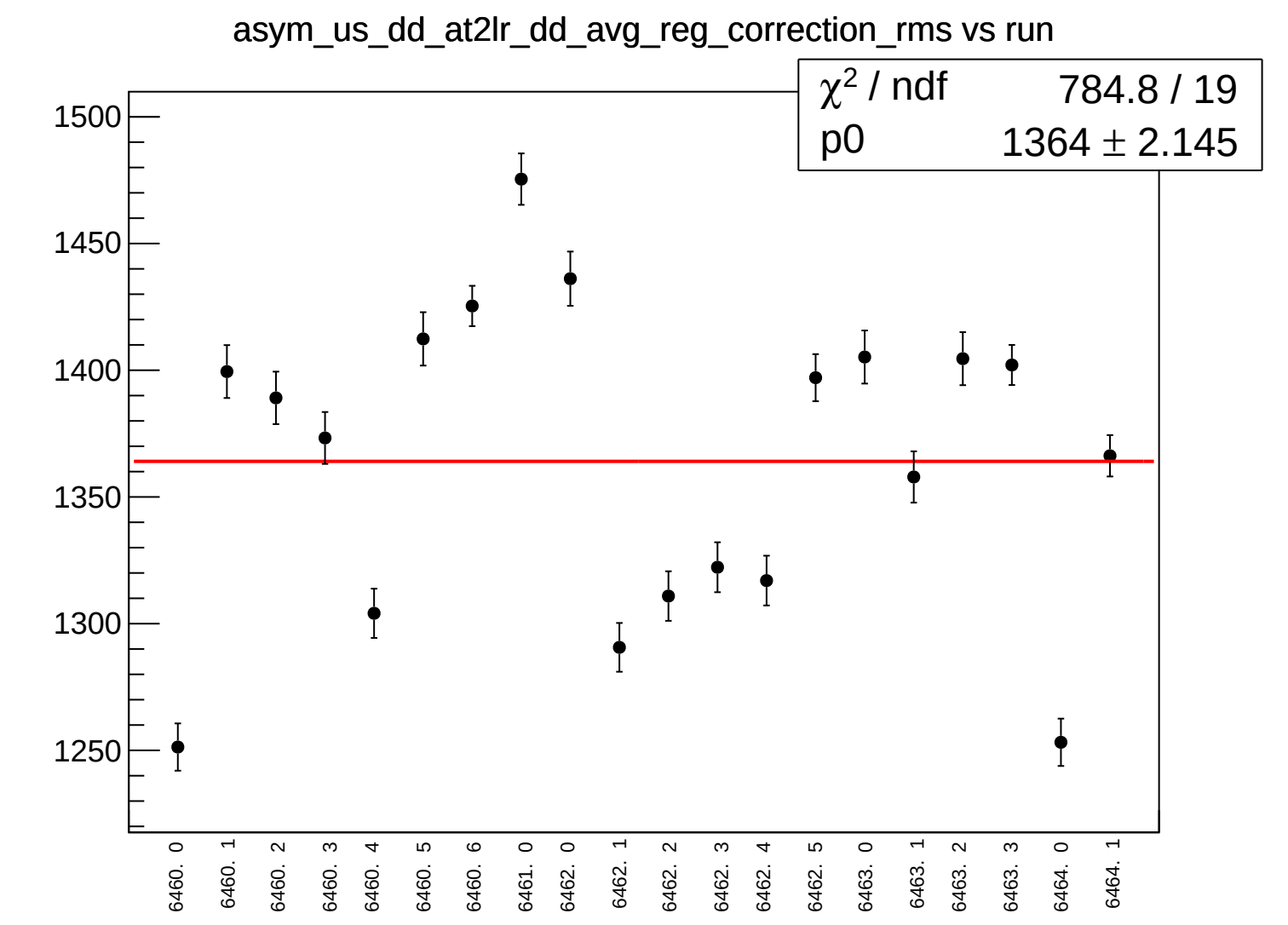

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.628e+05 / 19
p0 1.441e−11 ± 2.927e−14
90
80
70
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 19.57 / 19
p0 829.8 ± 4957
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −36.61
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 20
Mean −0.03442
Std Dev 0.9886
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 15.51 / 19
p0 2231 ± 3.505
2280
2260
2240
2220
2200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 7.935 / 19
p0 37.9 ± 3033
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.98
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.007972
Std Dev 0.6298
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 784.8 / 19
p0 1364 ± 2.145
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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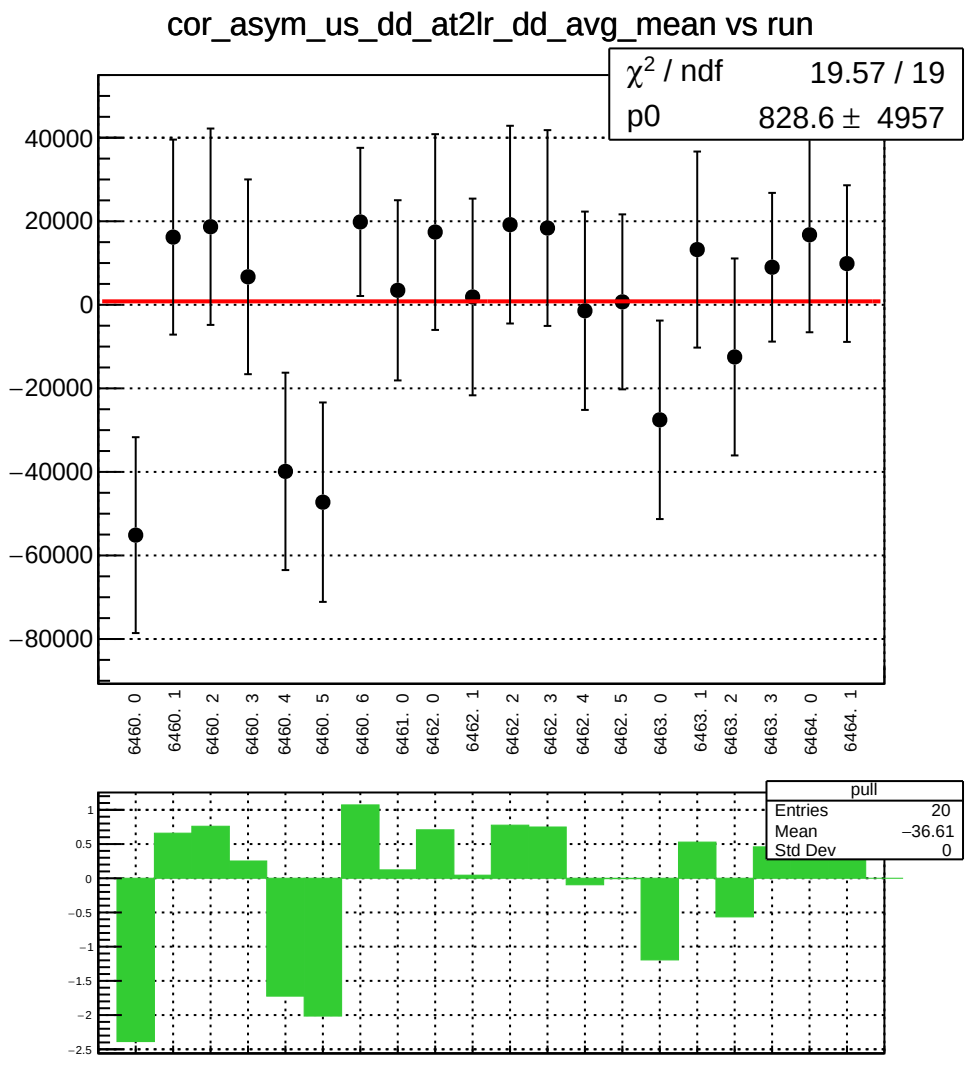
6463. 2
6463. 3
6464. 0
6464. 1


cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 19.57 / 19
p0 828.6 ± 4957
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −36.61
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean −0.03441
Std Dev 0.9886
9
8
7
6
5
4
3
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1
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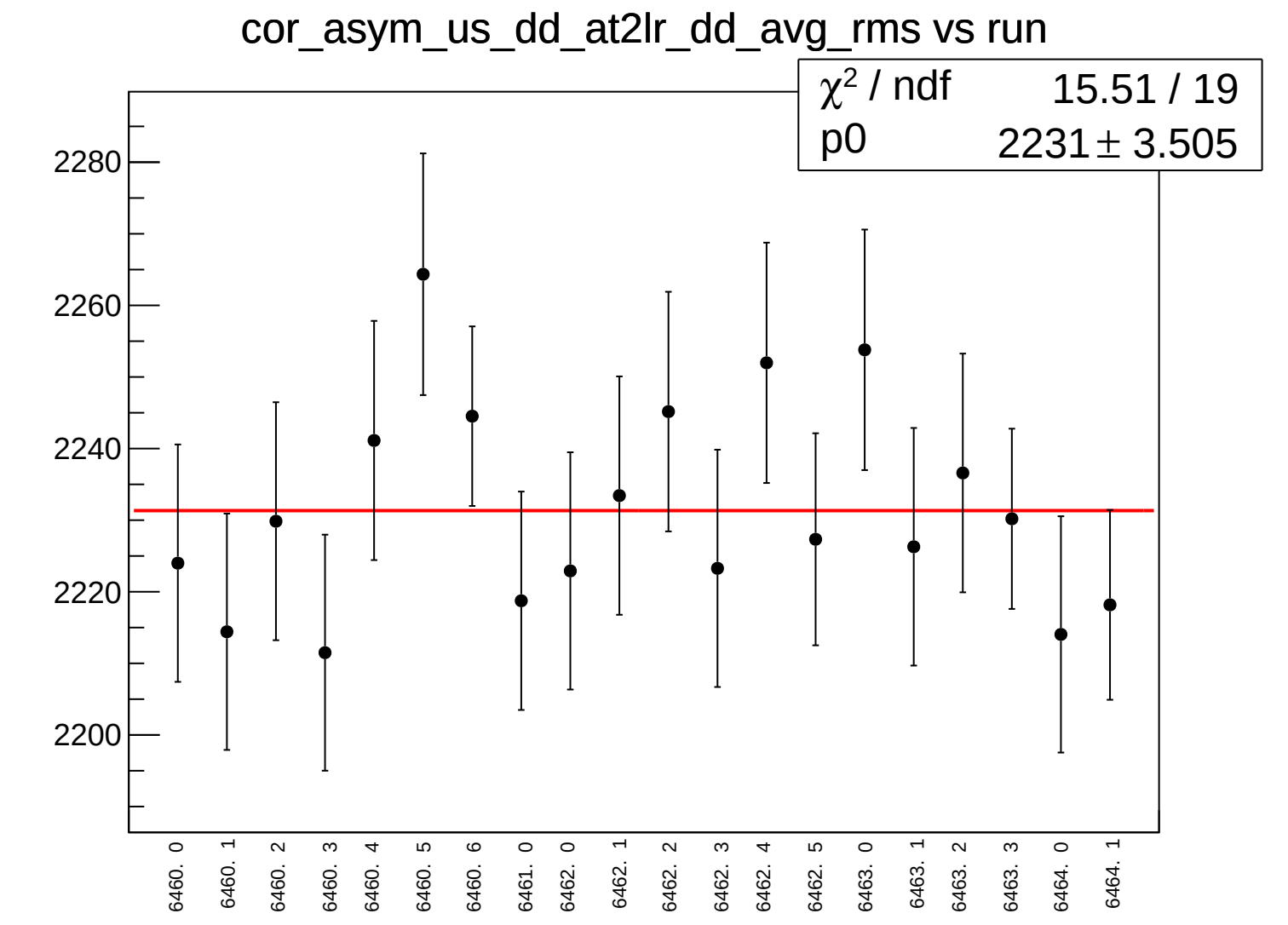
−4
−2
0
2
4
6
8


cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 15.51 / 19
p0 2231 ± 3.505
2280
2260
2240
2220
2200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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6463. 2
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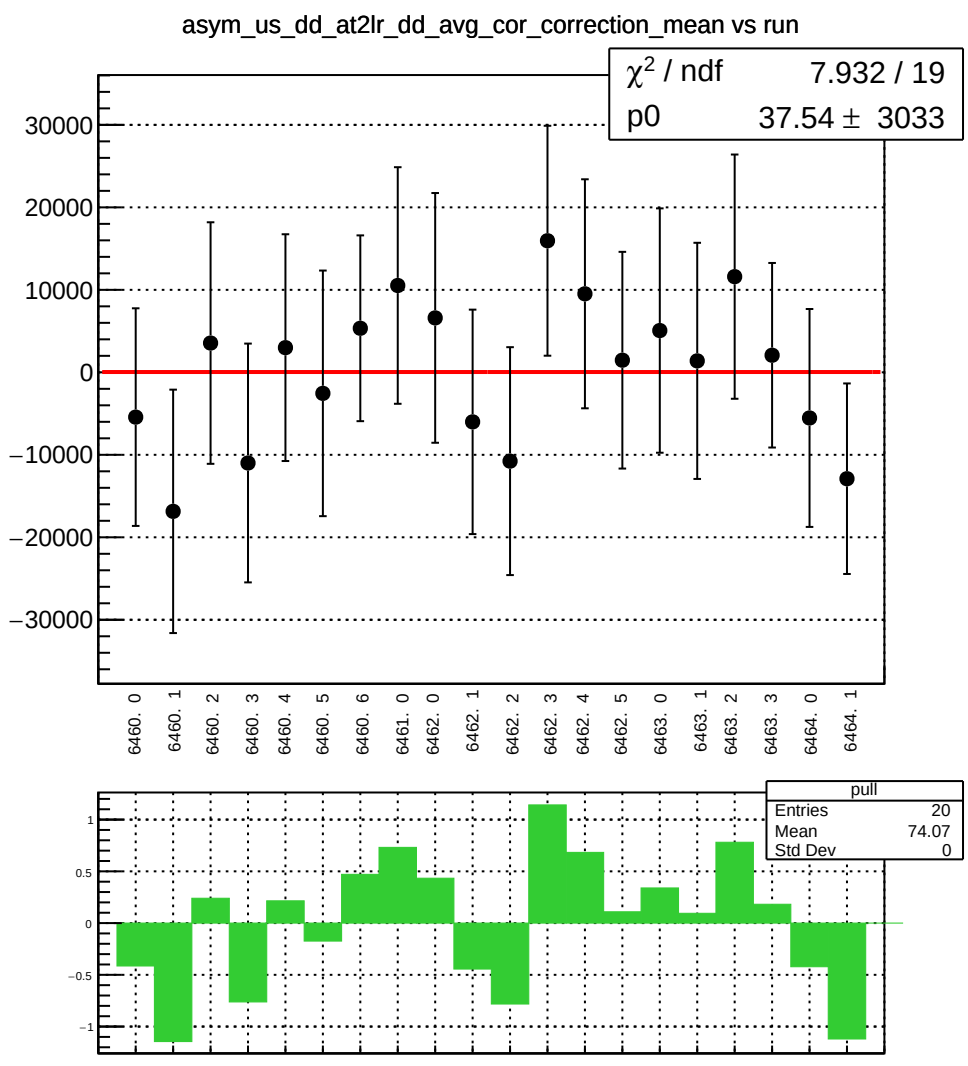
6464. 1


asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 7.932 / 19
p0 37.54 ± 3033
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
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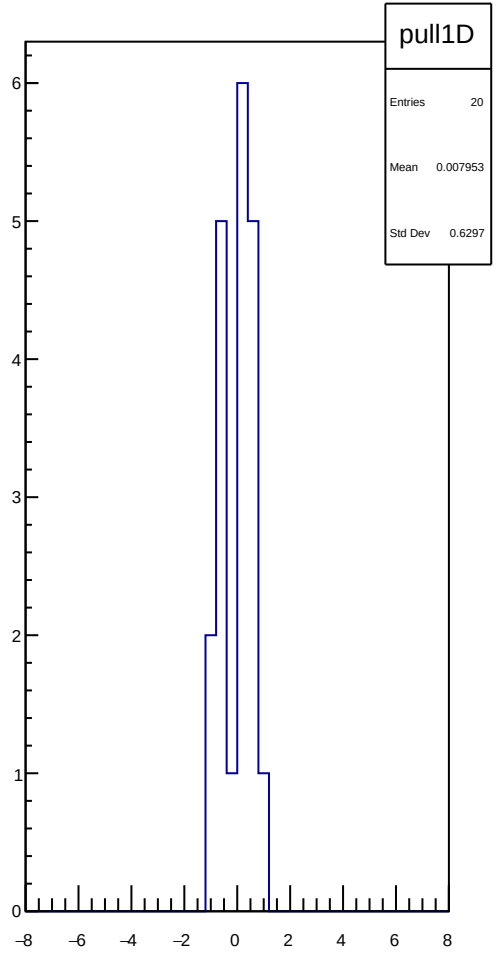
6464. 1
pull
Entries 20
Mean 74.07
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.007953
Std Dev 0.6297
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2
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−8
−6
−4
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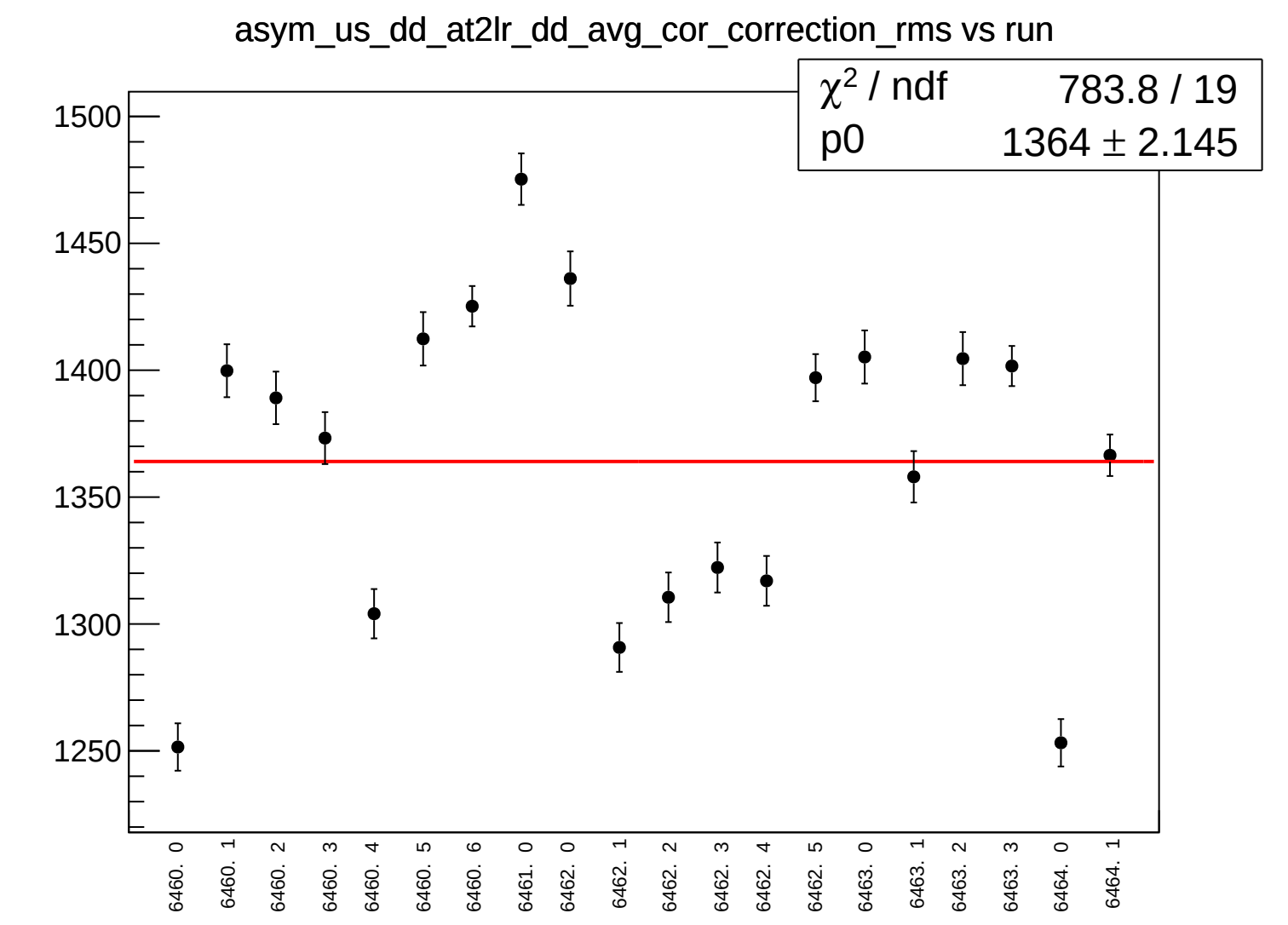
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 783.8 / 19
p0 1364 ± 2.145
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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6463. 2
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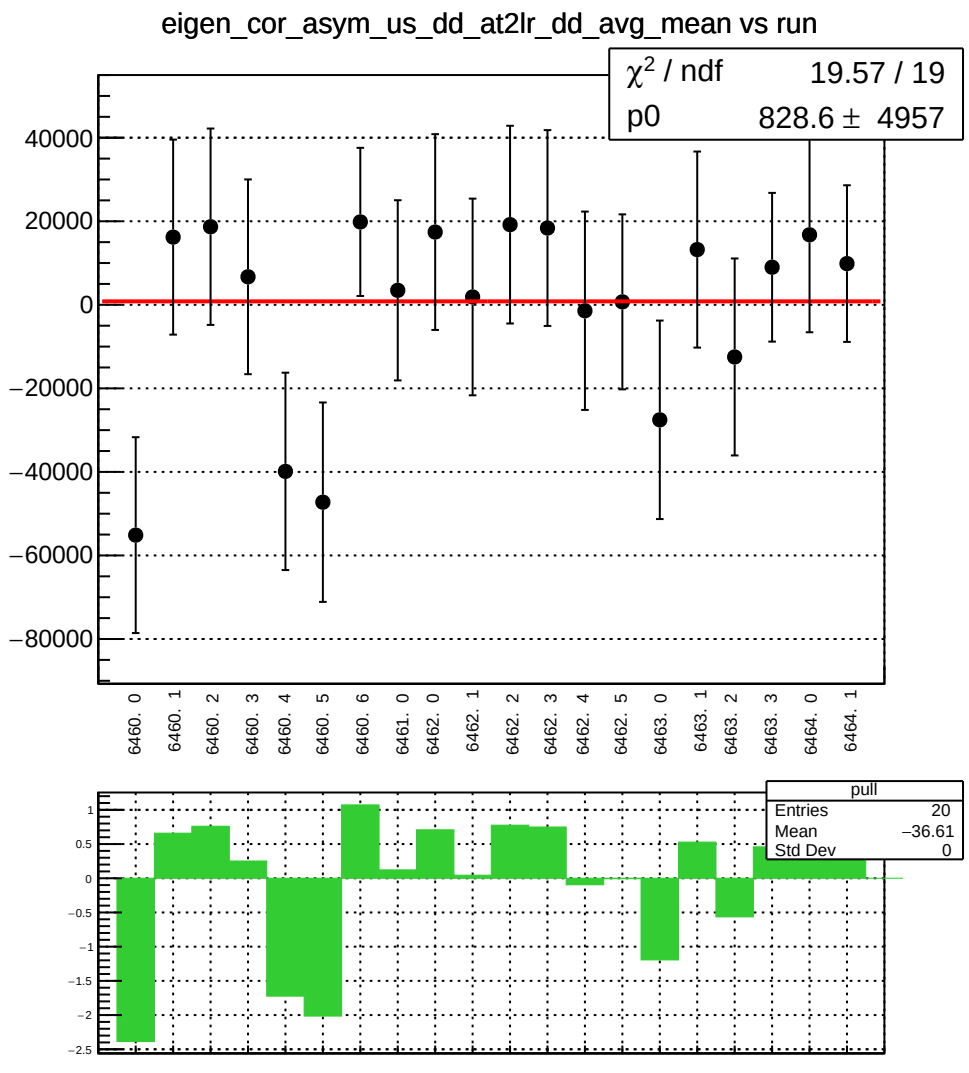
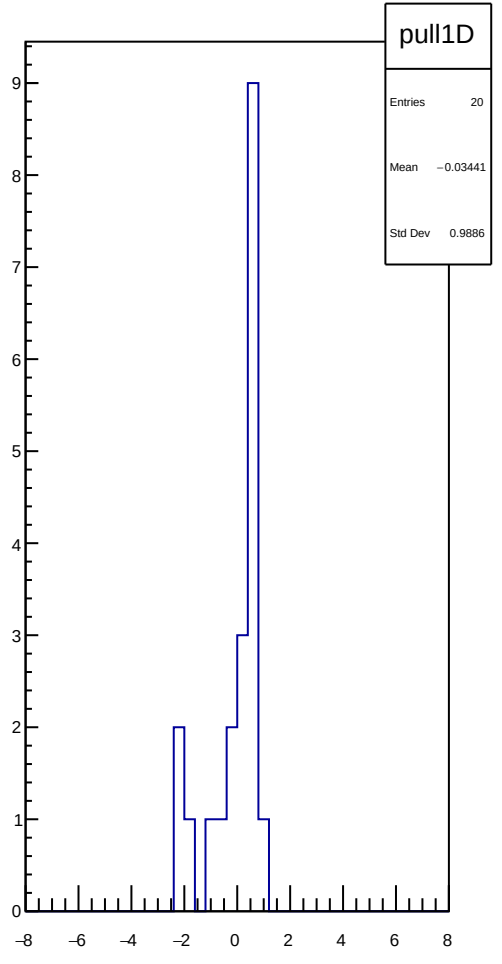
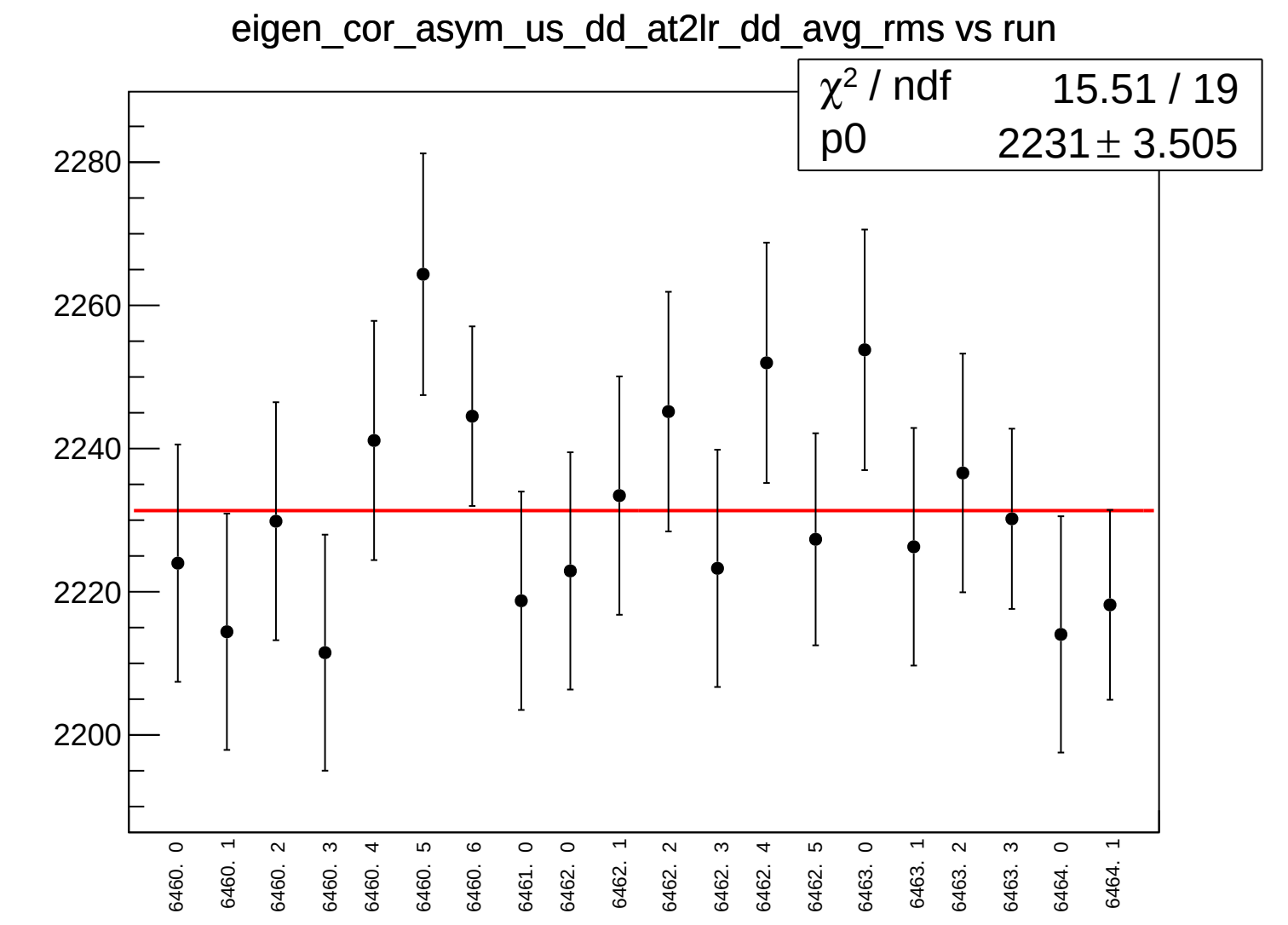
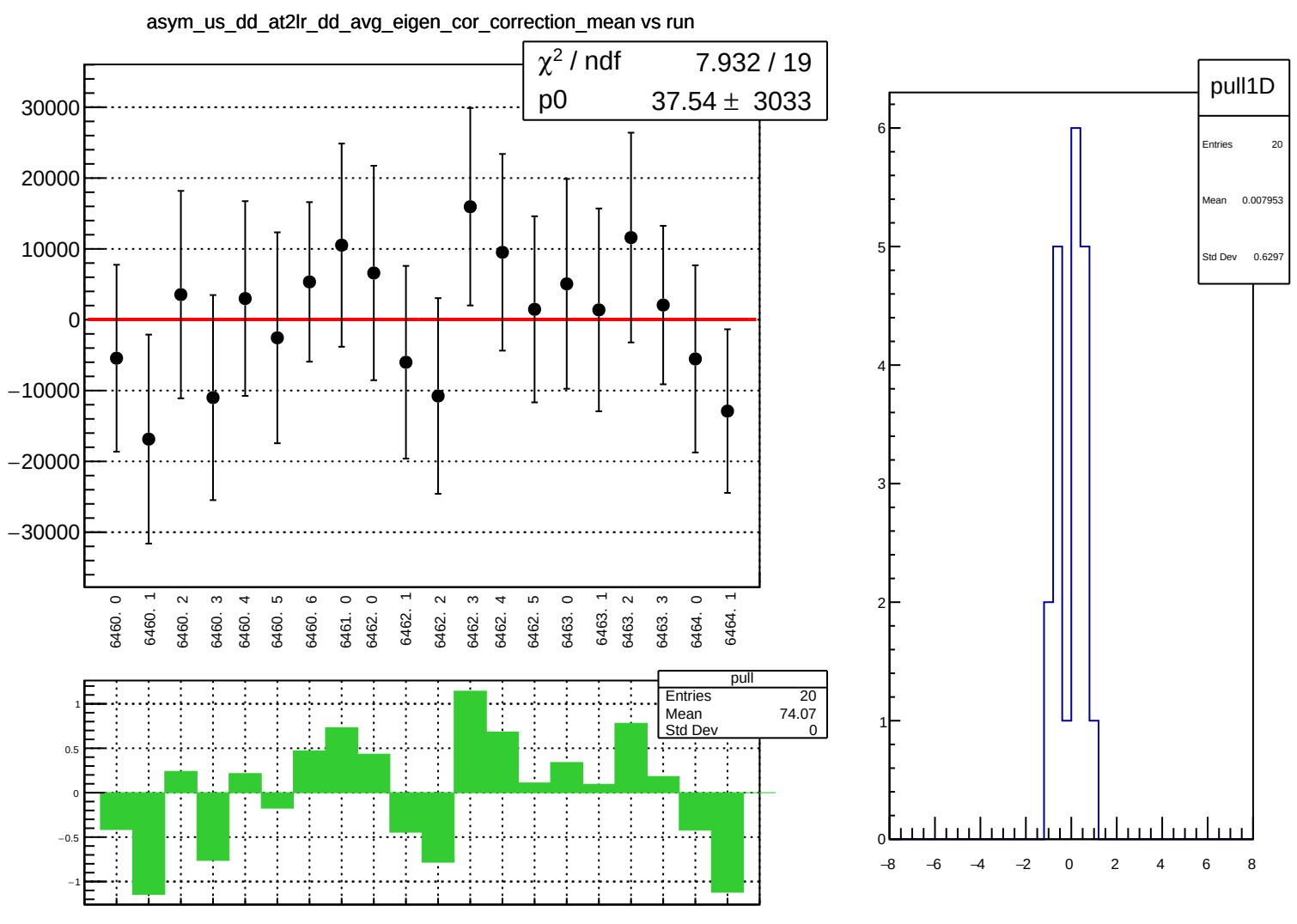
6464. 0
6464. 1


eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 19.57 / 19
p0 828.6 ± 4957
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −36.61
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 20
Mean −0.03441
Std Dev 0.9886
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 15.51 / 19
p0 2231 ± 3.505
2280
2260
2240
2220
2200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 7.932 / 19
p0 37.54 ± 3033
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 74.07
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.007953
Std Dev 0.6297
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5
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3
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1
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−8
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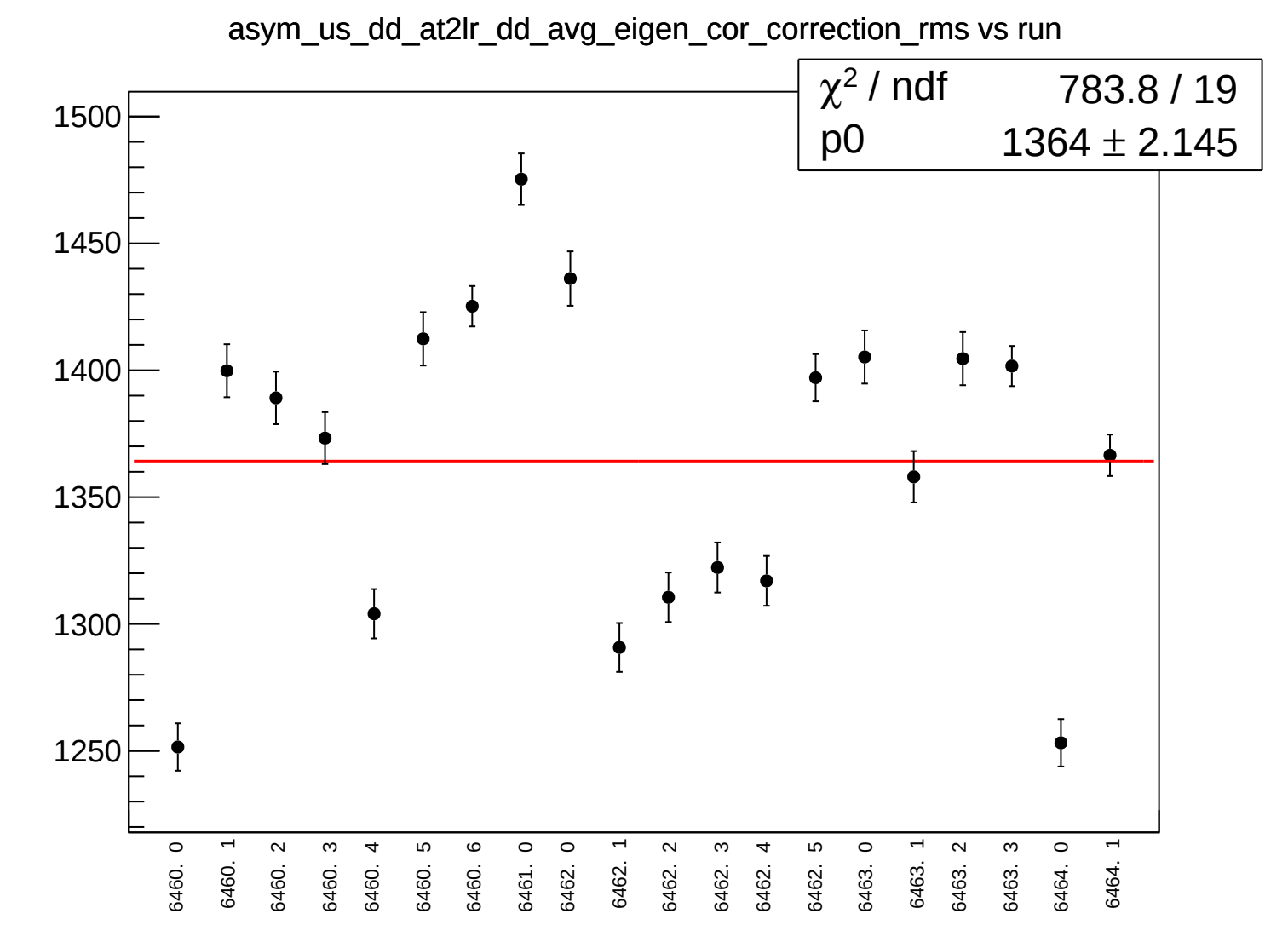
asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 783.8 / 19
p0 1364 ± 2.145
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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6463. 0
6463. 1
6463. 2
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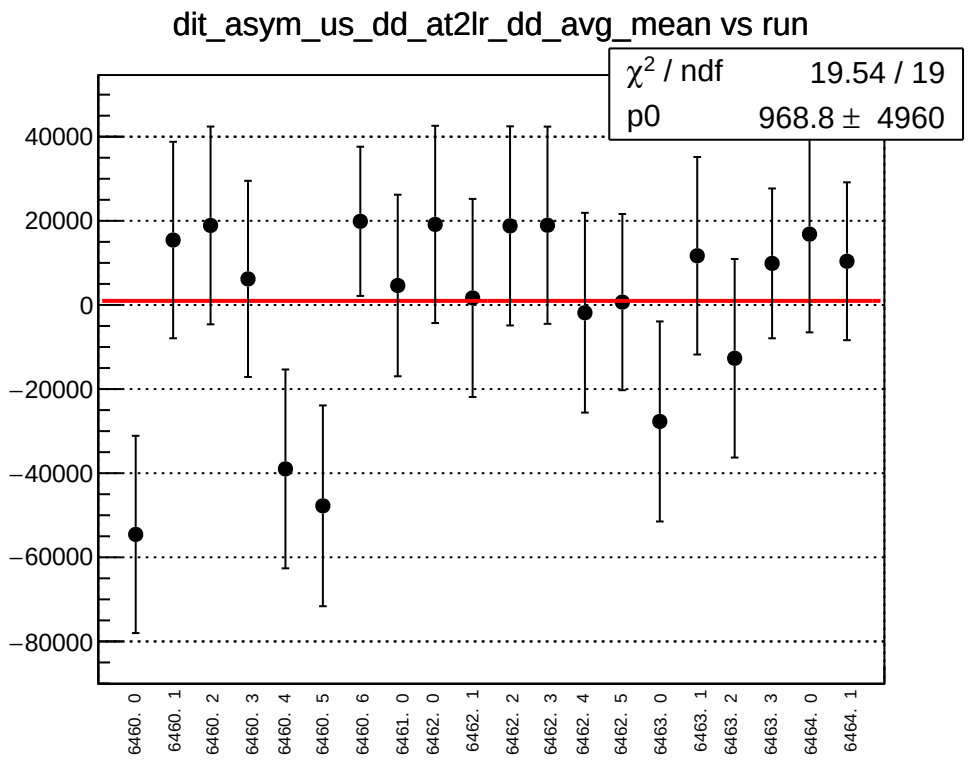
6464. 0
6464. 1


dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 19.54 / 19
p0 968.8 ± 4960
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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6463. 2
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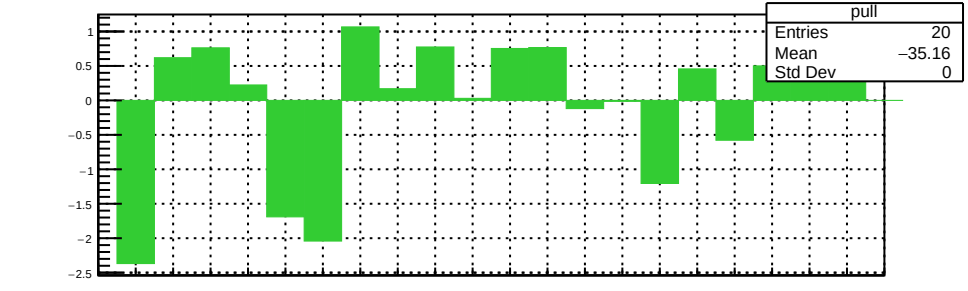
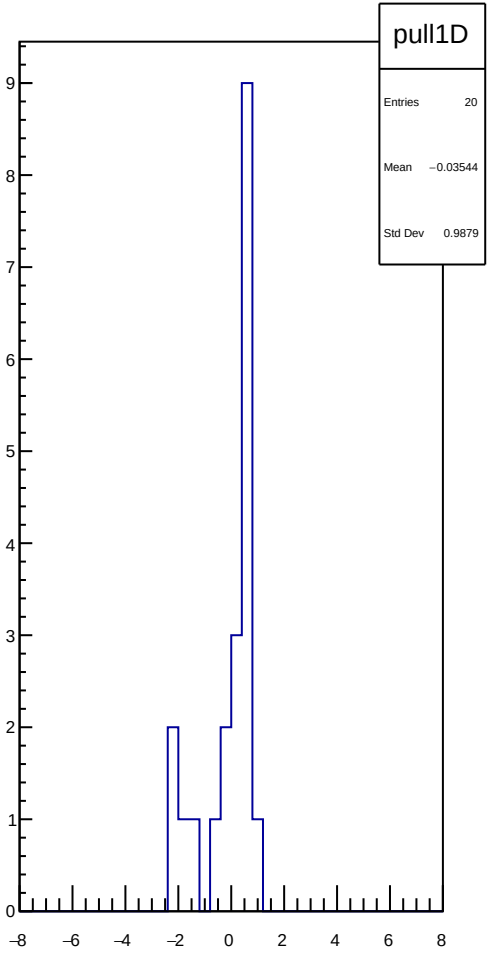
6464. 0
6464. 1


pull
Entries 20
Mean −35.16
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 20
Mean −0.03544
Std Dev 0.9879
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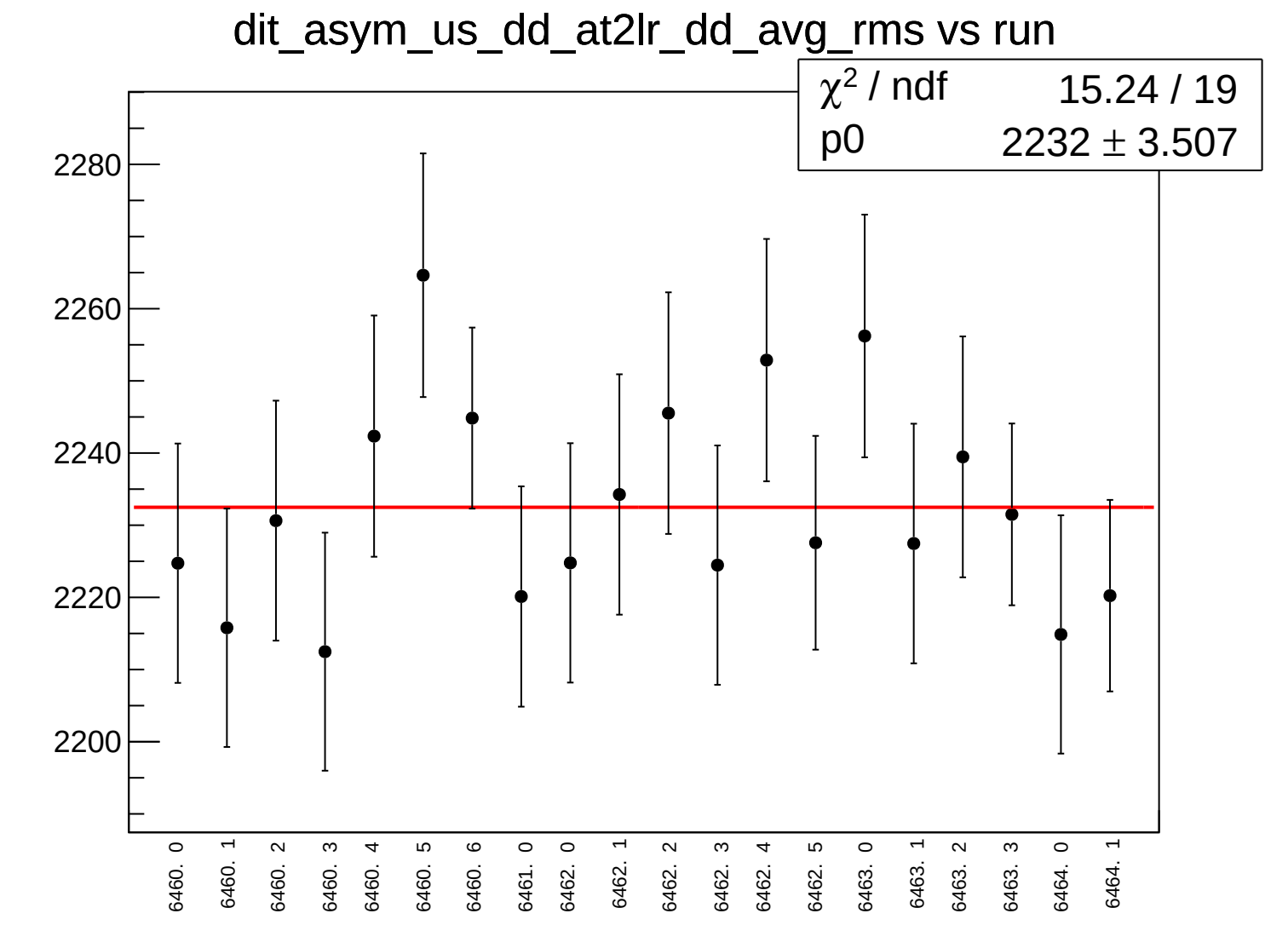
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 15.24 / 19
p0 2232 ± 3.507
2280
2260
2240
2220
2200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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6463. 2
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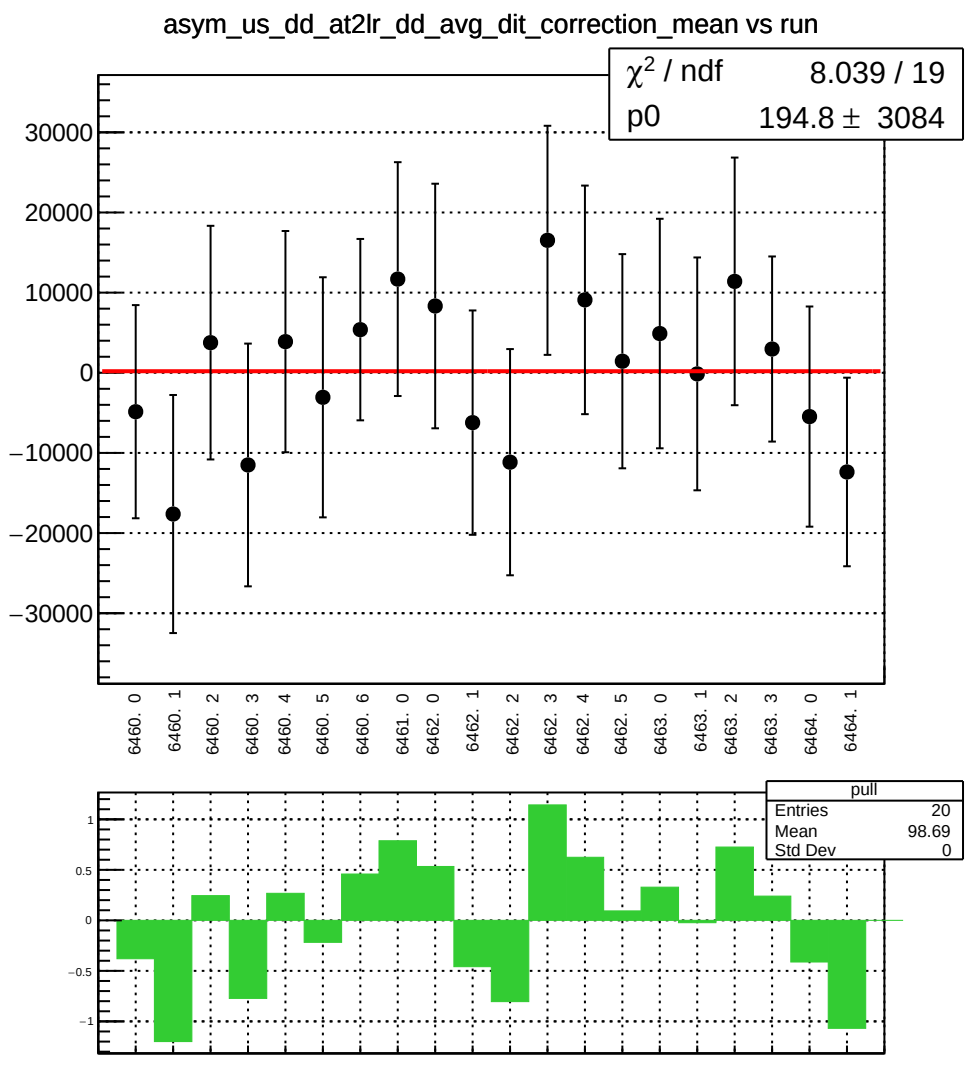
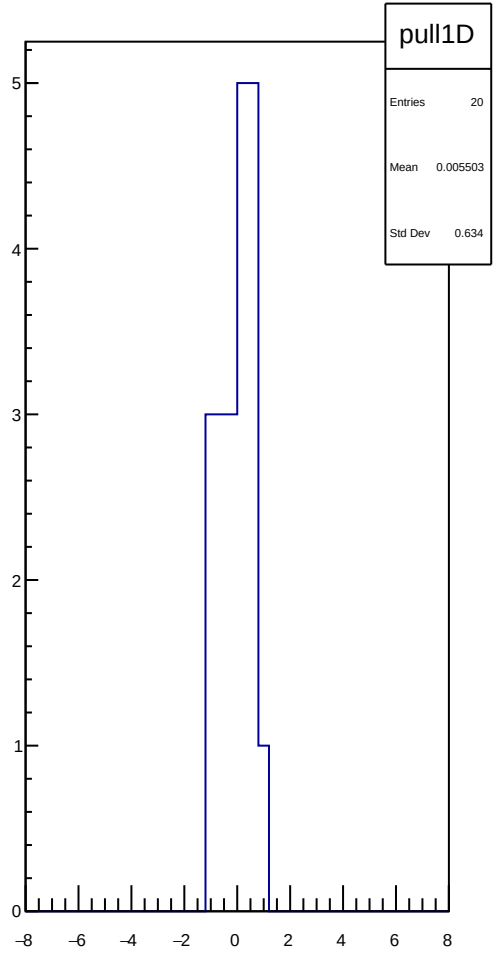
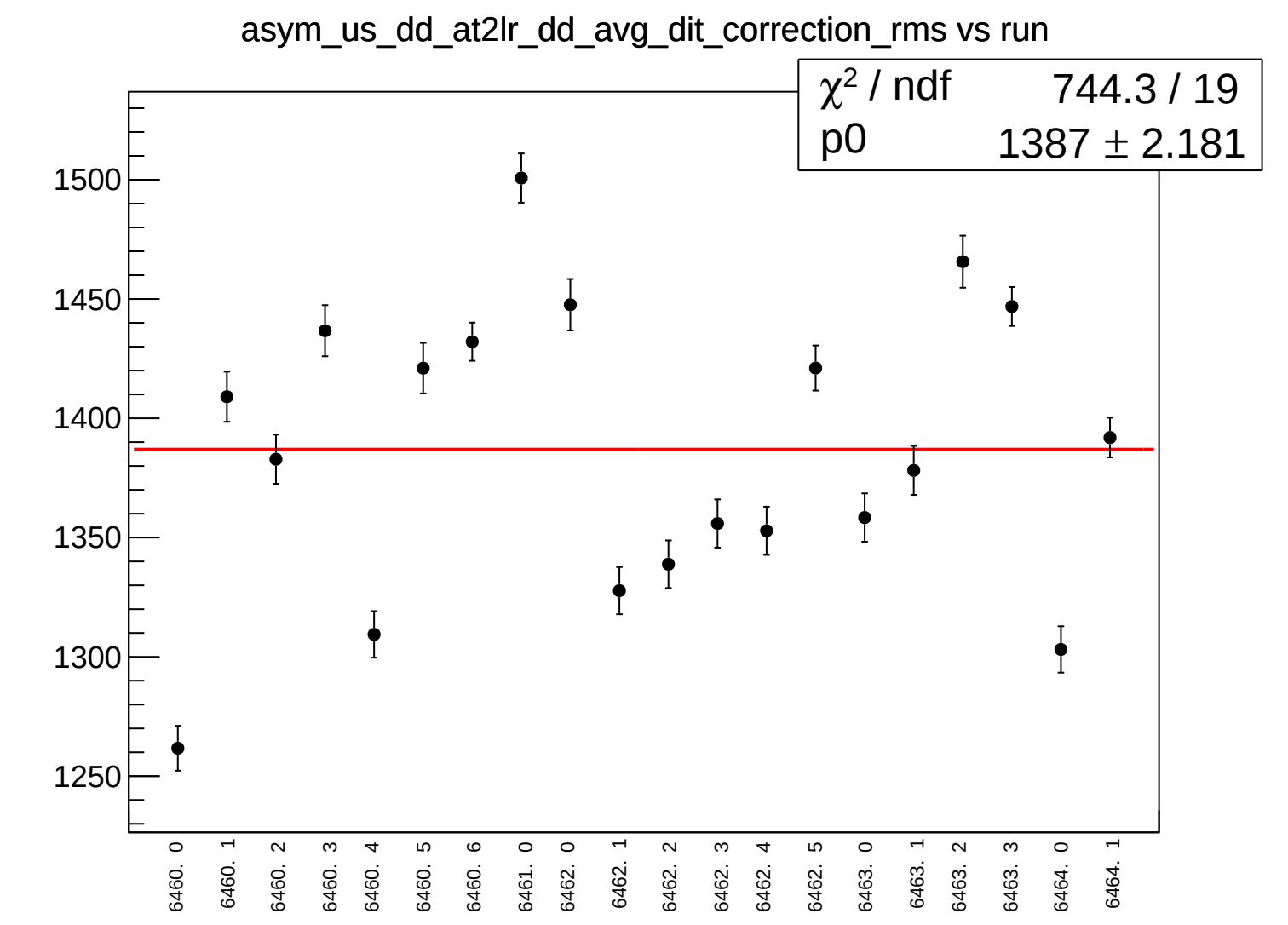
6464. 0
6464. 1


asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 8.039 / 19
p0 194.8 ± 3084
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 98.69
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.005503
Std Dev 0.634
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 744.3 / 19
p0 1387 ± 2.181
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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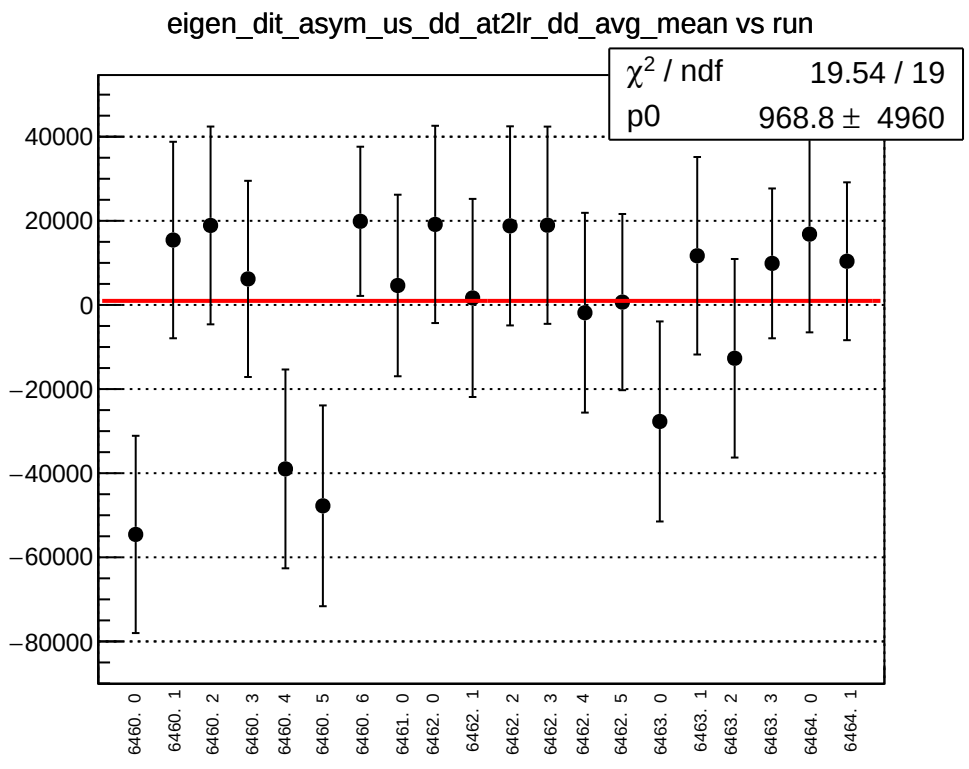
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 19.54 / 19
p0 968.8 ± 4960
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
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6462. 3
6462. 4
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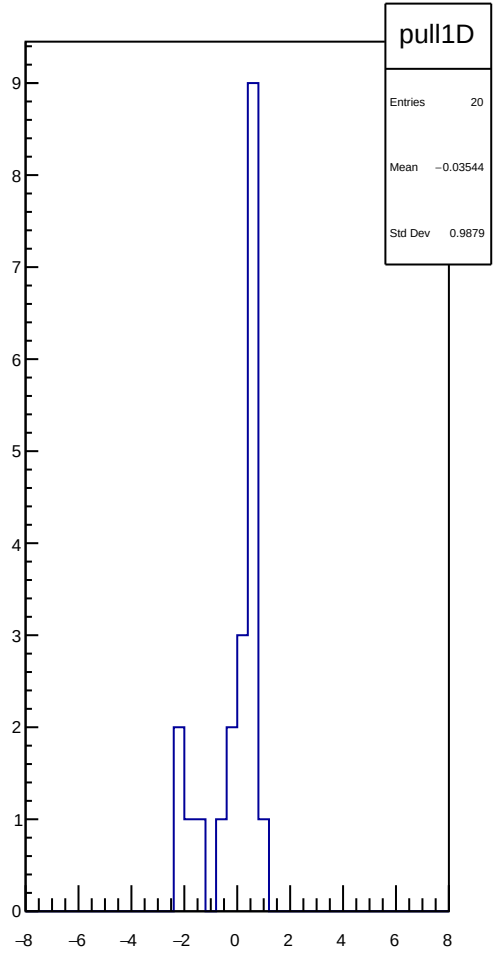
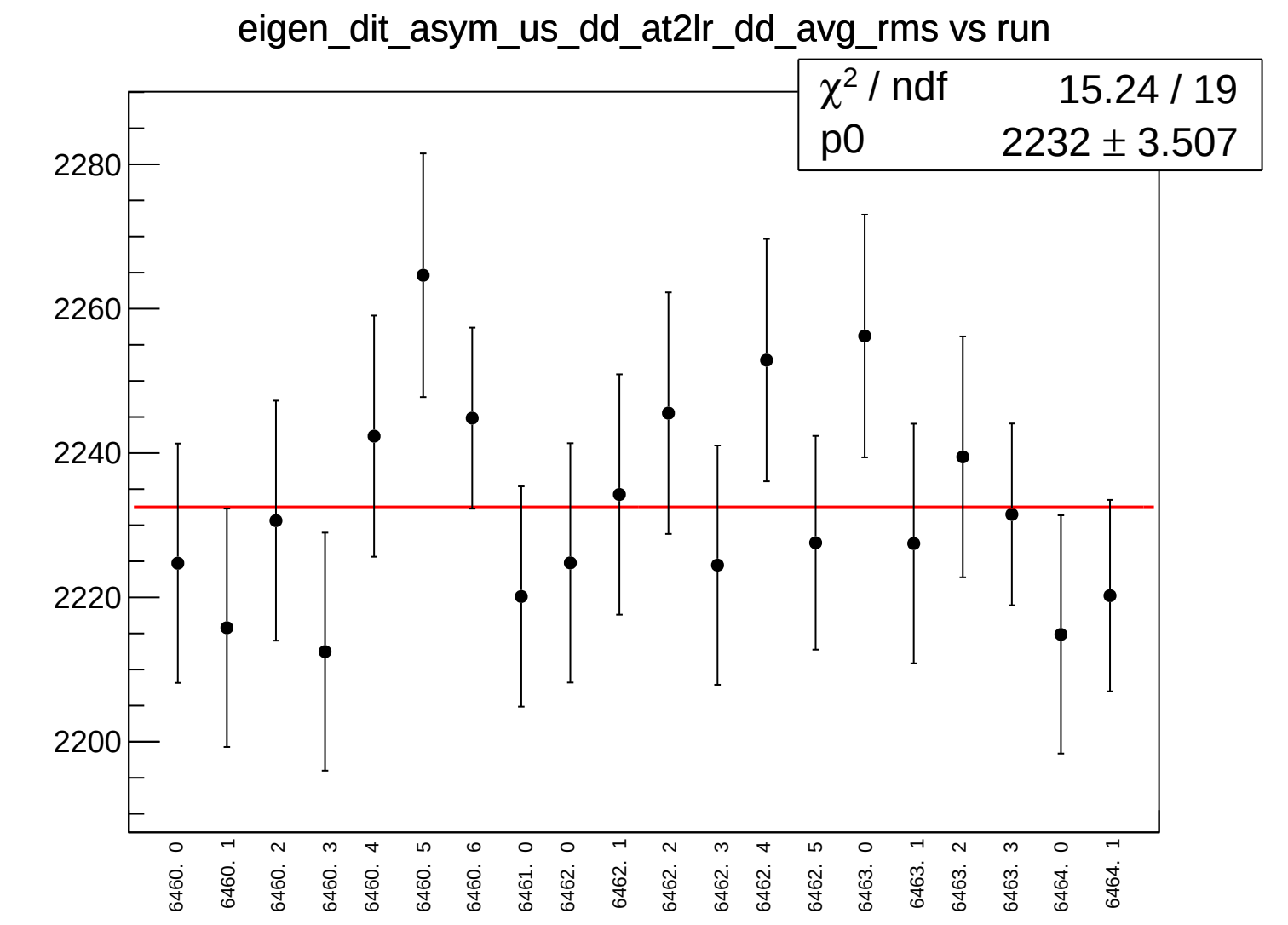
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −35.16
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 20
Mean −0.03544
Std Dev 0.9879
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 15.24 / 19
p0 2232 ± 3.507
2280
2260
2240
2220
2200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 4
6462. 5
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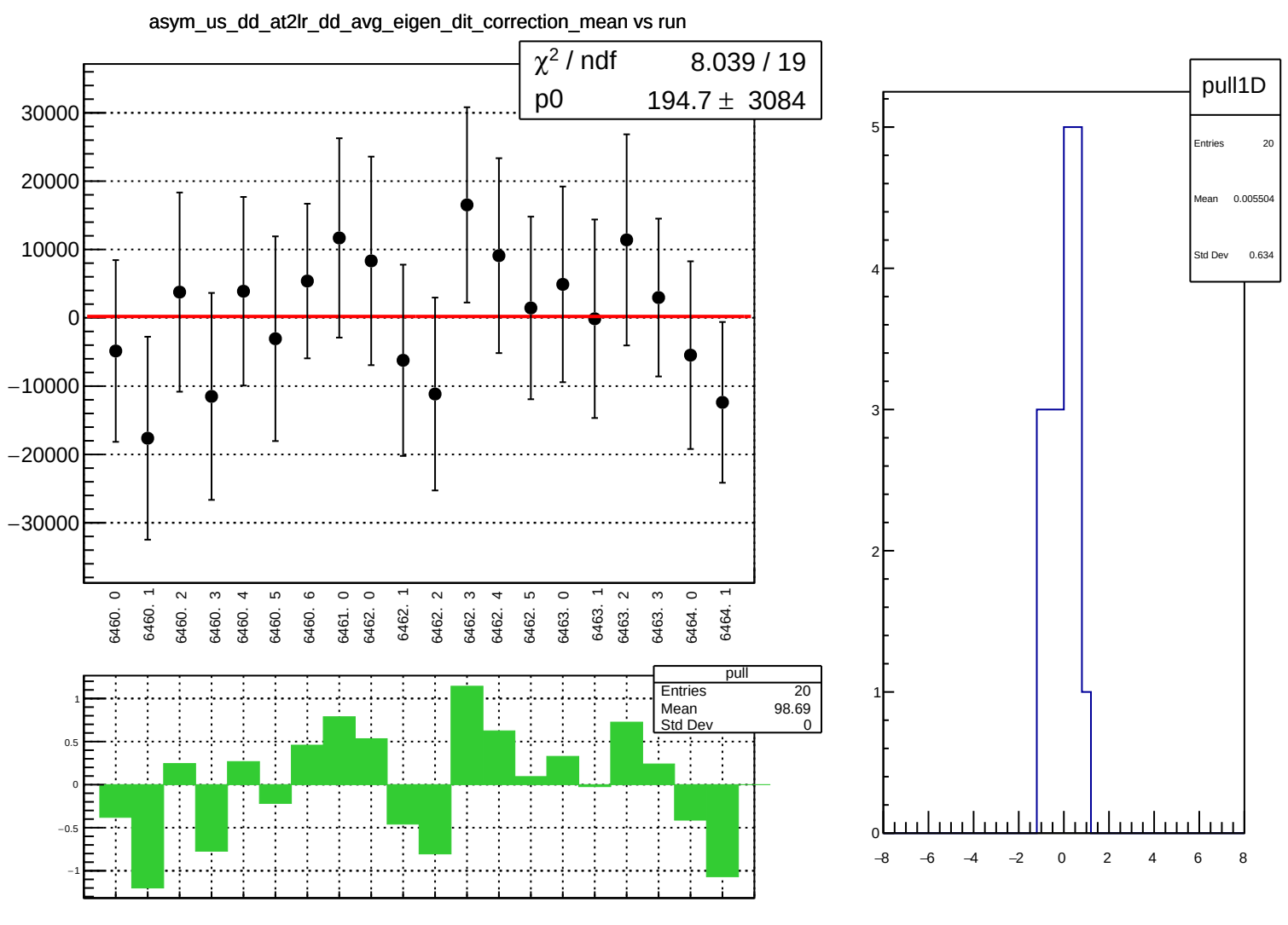
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 8.039 / 19
p0 194.7 ± 3084
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 98.69
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.005504
Std Dev 0.634
5
4
3
2
1
0
−8
−6
−4
−2
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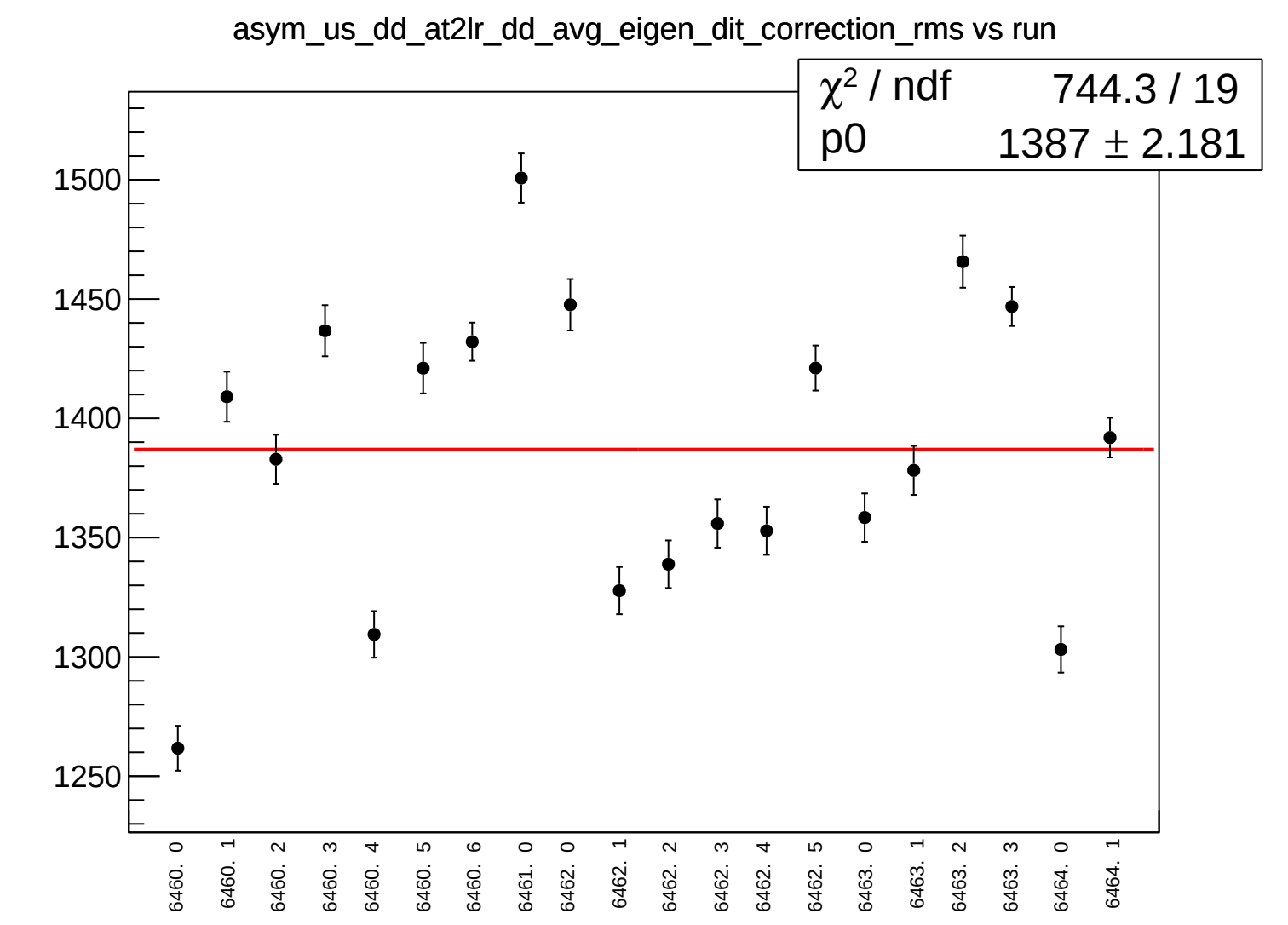
2
4
6
8


asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 744.3 / 19
p0 1387 ± 2.181
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 4
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6463. 2
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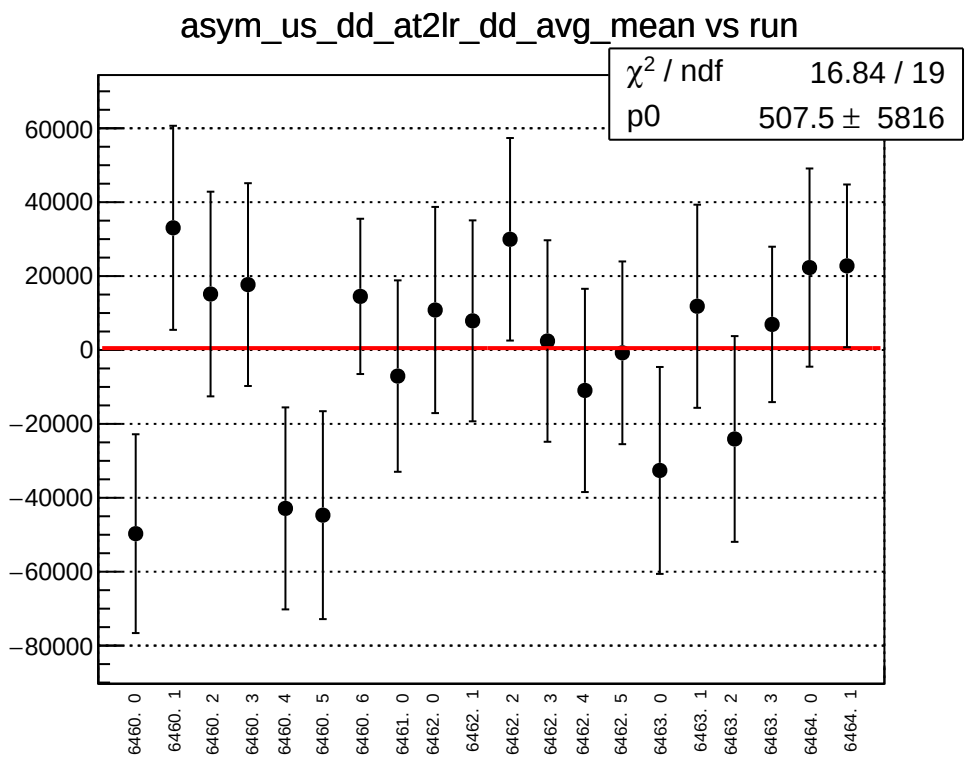
6464. 1


asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 16.84 / 19
p0 507.5 ± 5816
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
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6462. 1
6462. 2
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6462. 4
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6463. 1
6463. 2
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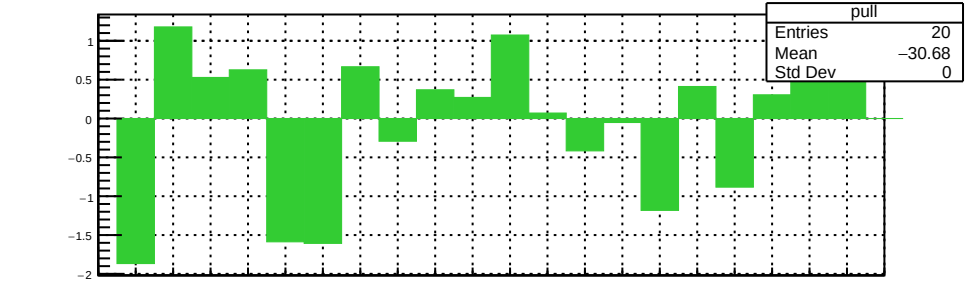
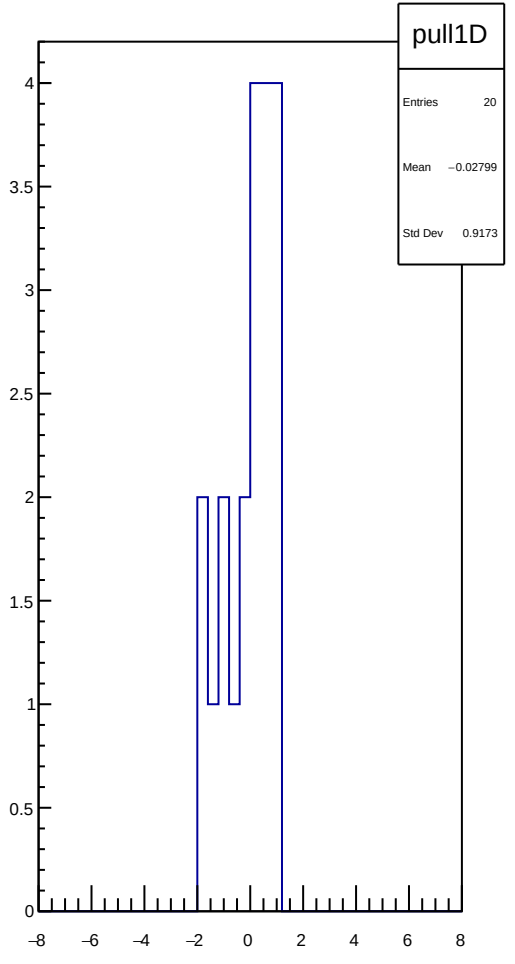
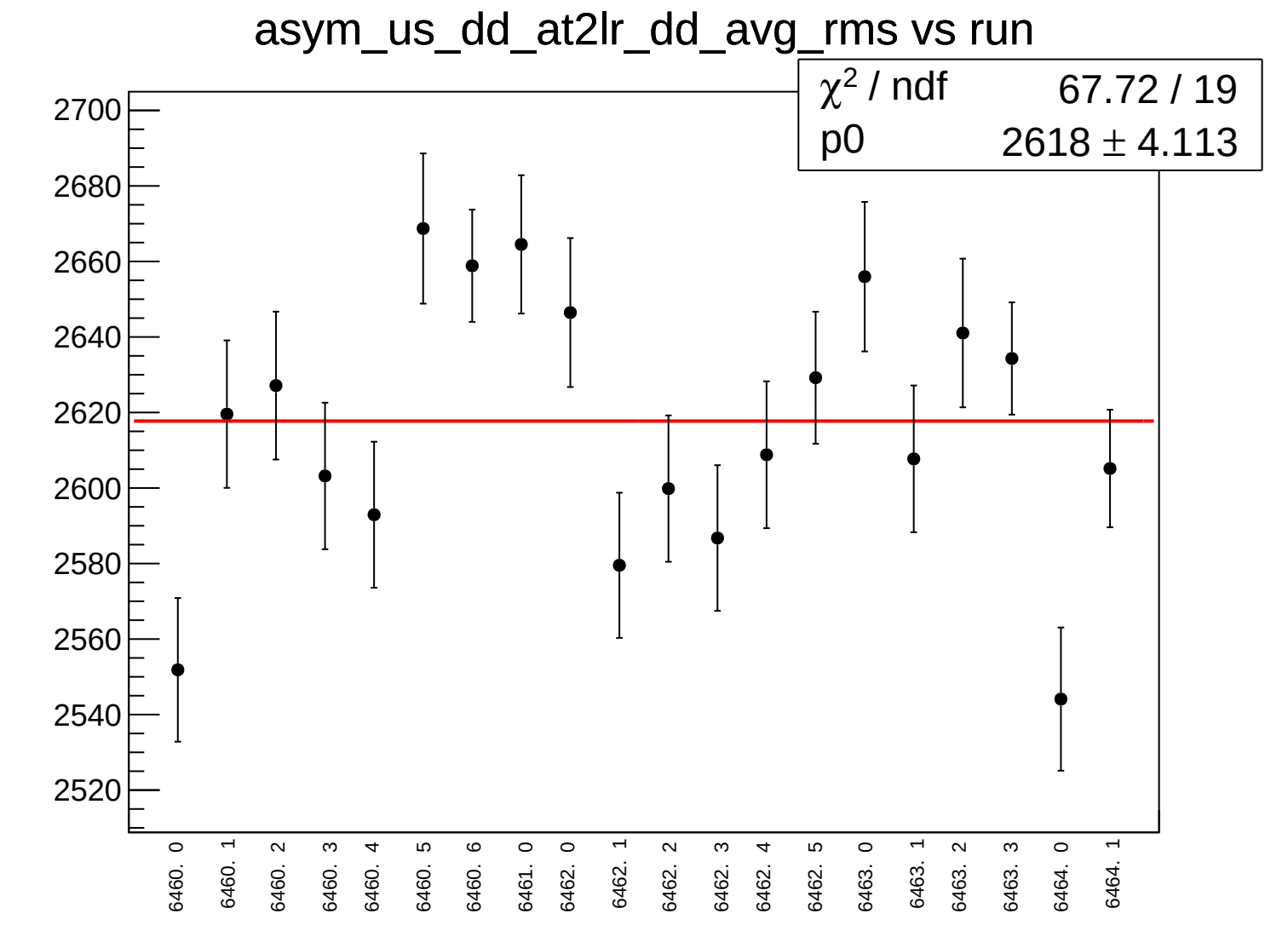
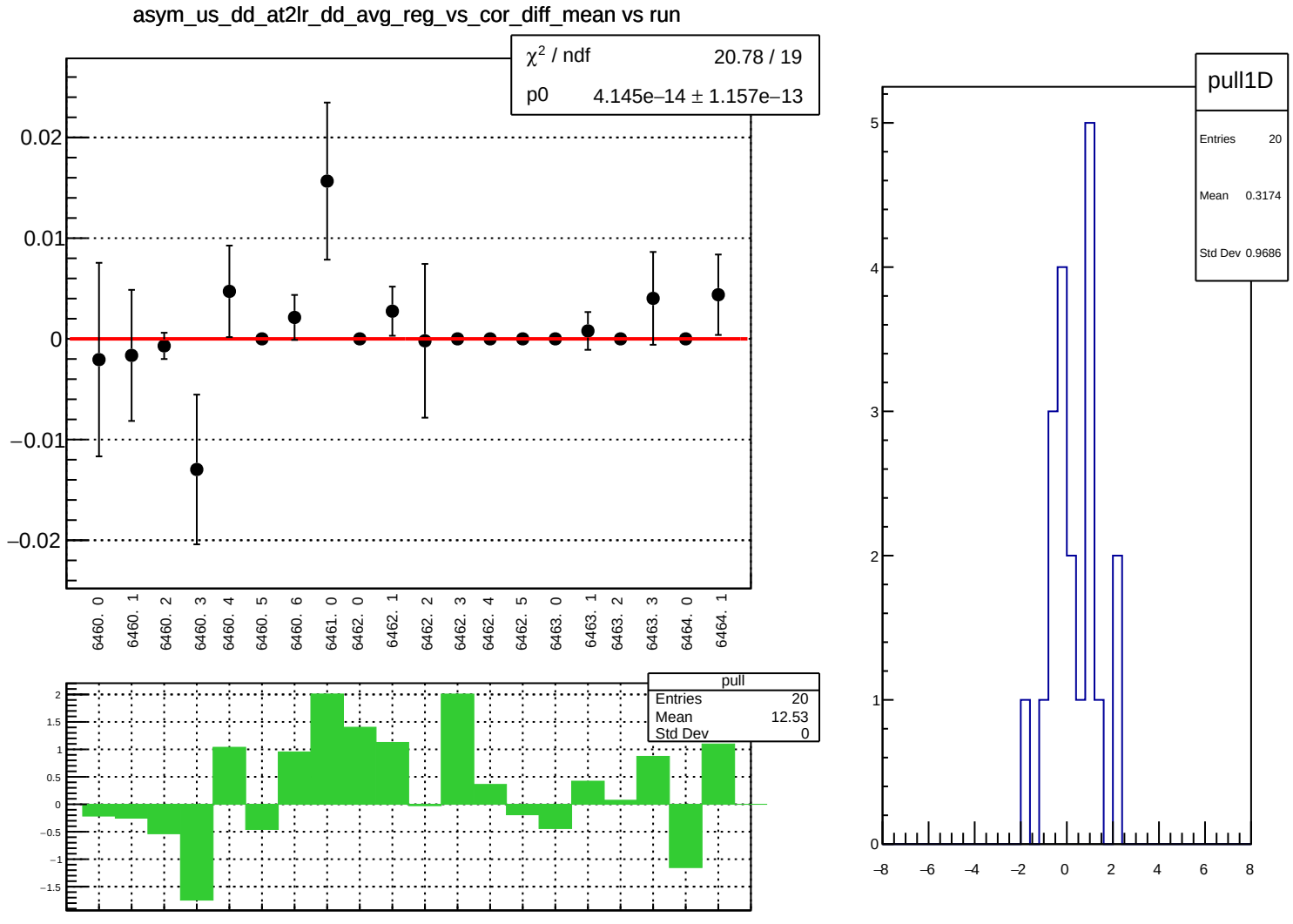
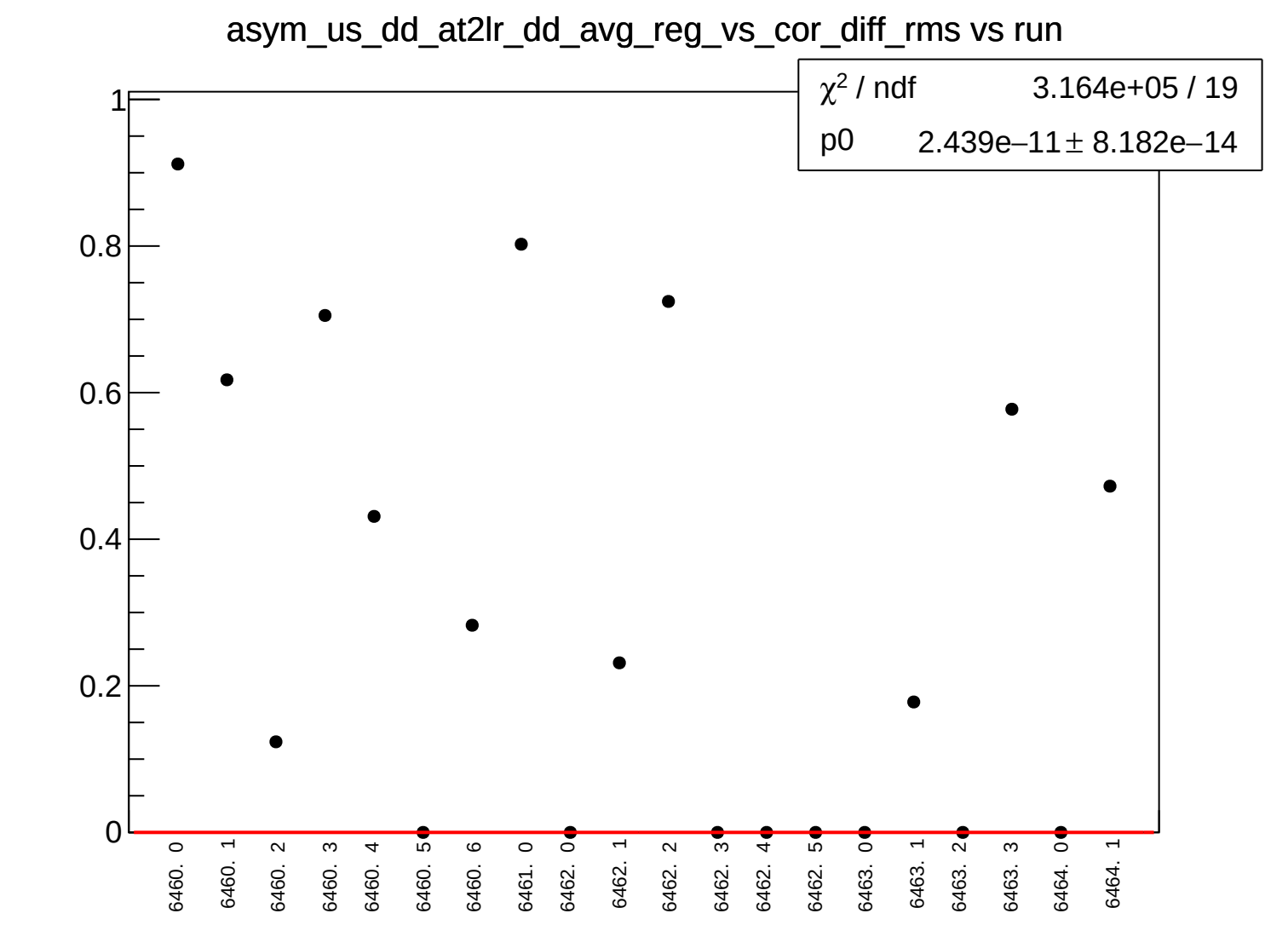
6464. 0
6464. 1

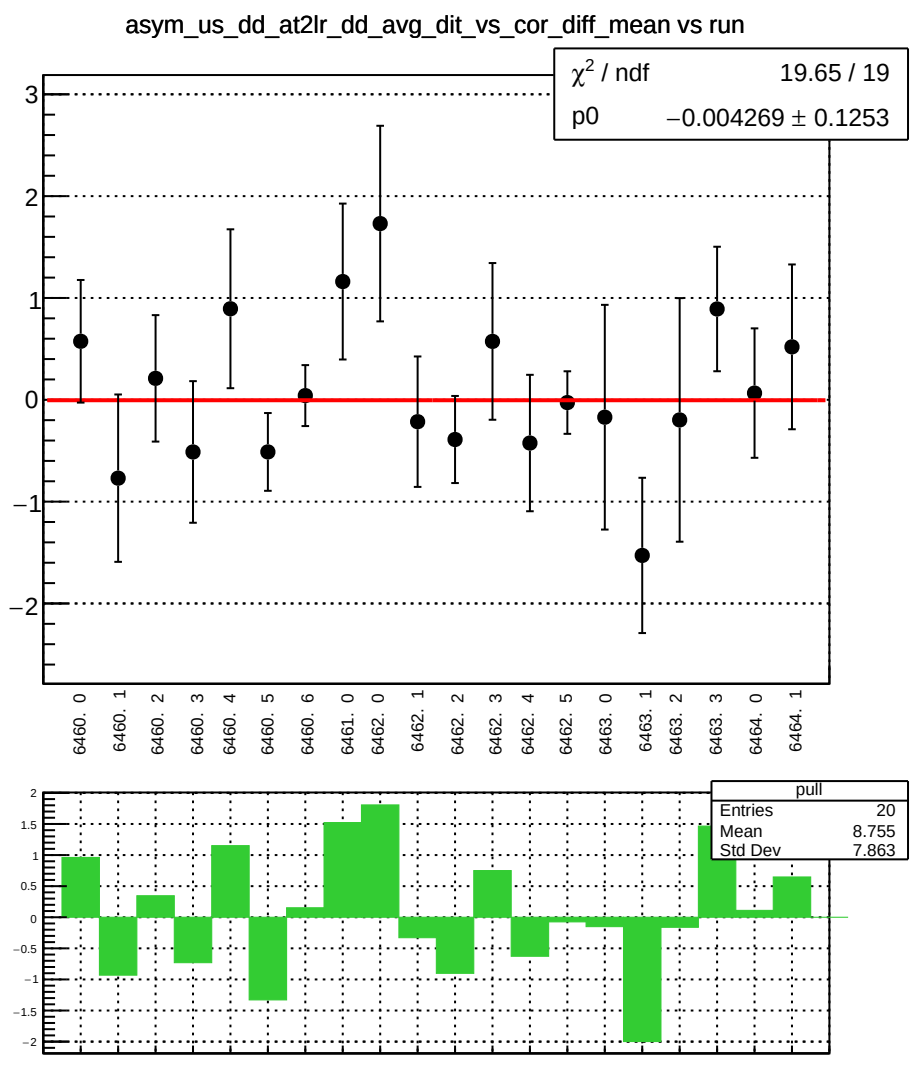

pull
Entries 20
Mean −30.68
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

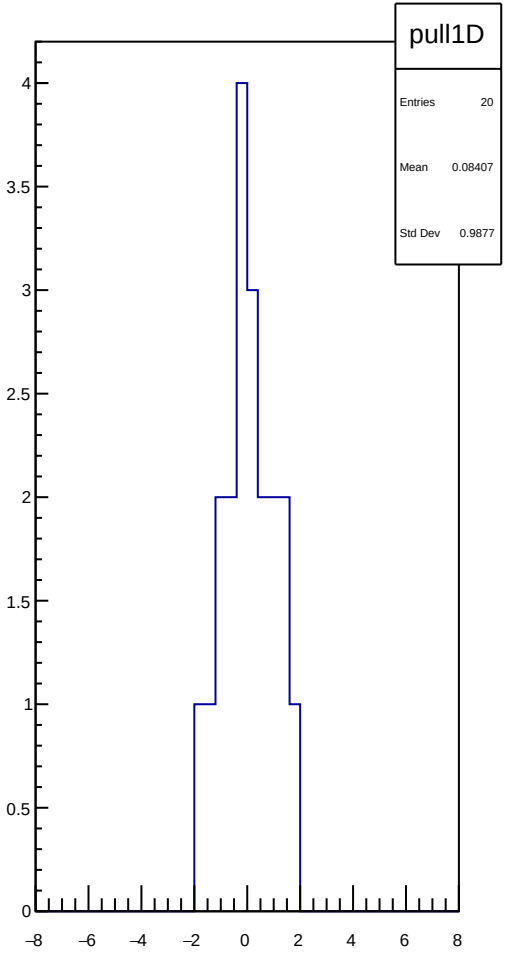

pull1D
Entries 20
Mean −0.02799
Std Dev 0.9173
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

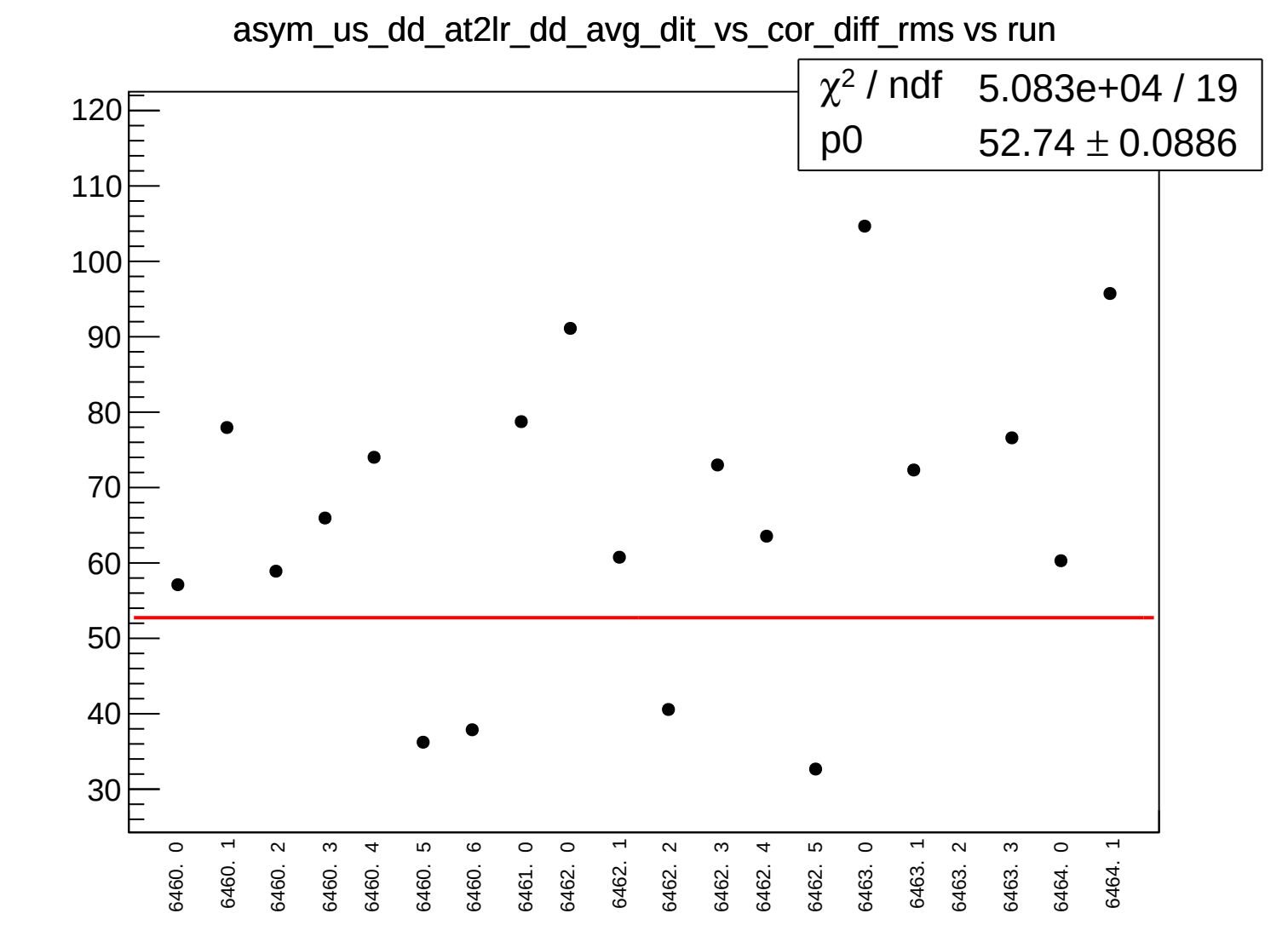

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 67.72 / 19
p0 2618 ± 4.113
2700
2680
2660
2640
2620
2600
2580
2560
2540
2520
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

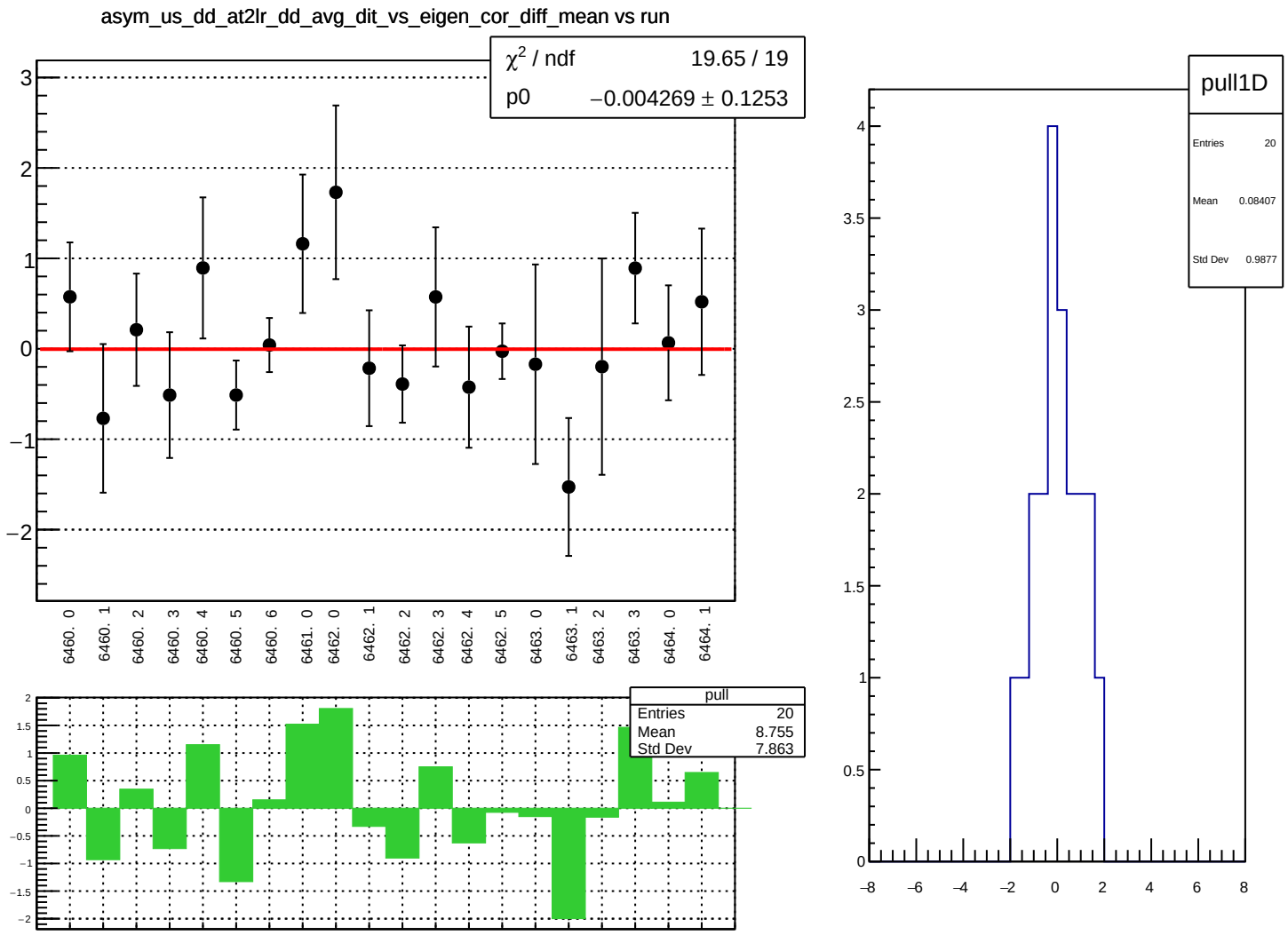

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.78 / 19
p0 4.145e−14 ± 1.157e−13
0.02
0.01
0
−0.01
−0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.53
Std Dev 0
pull1D
Entries 20
Mean 0.3174
Std Dev 0.9686

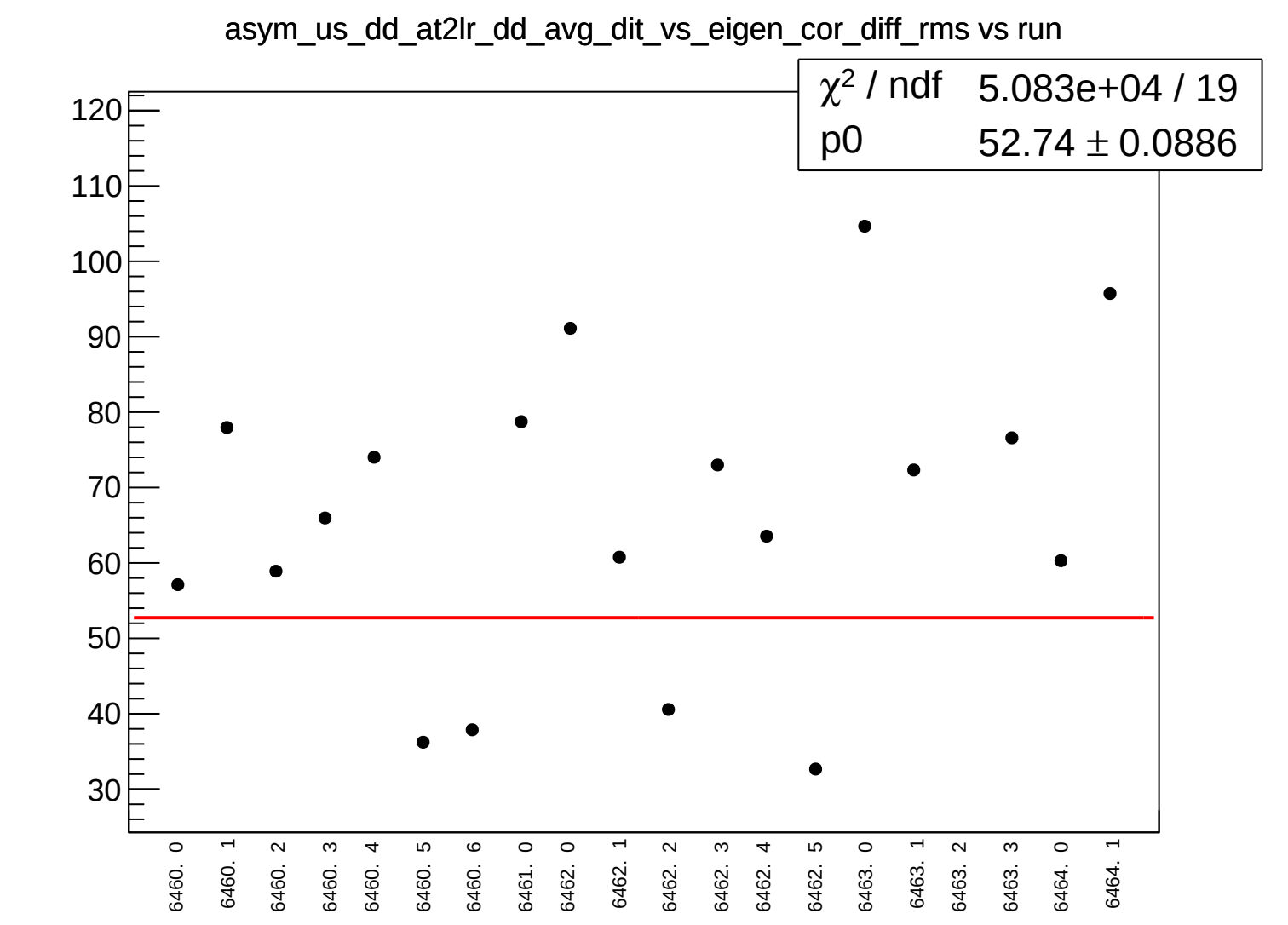

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.164e+05 / 19
p0 2.439e−11 ± 8.182e−14
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

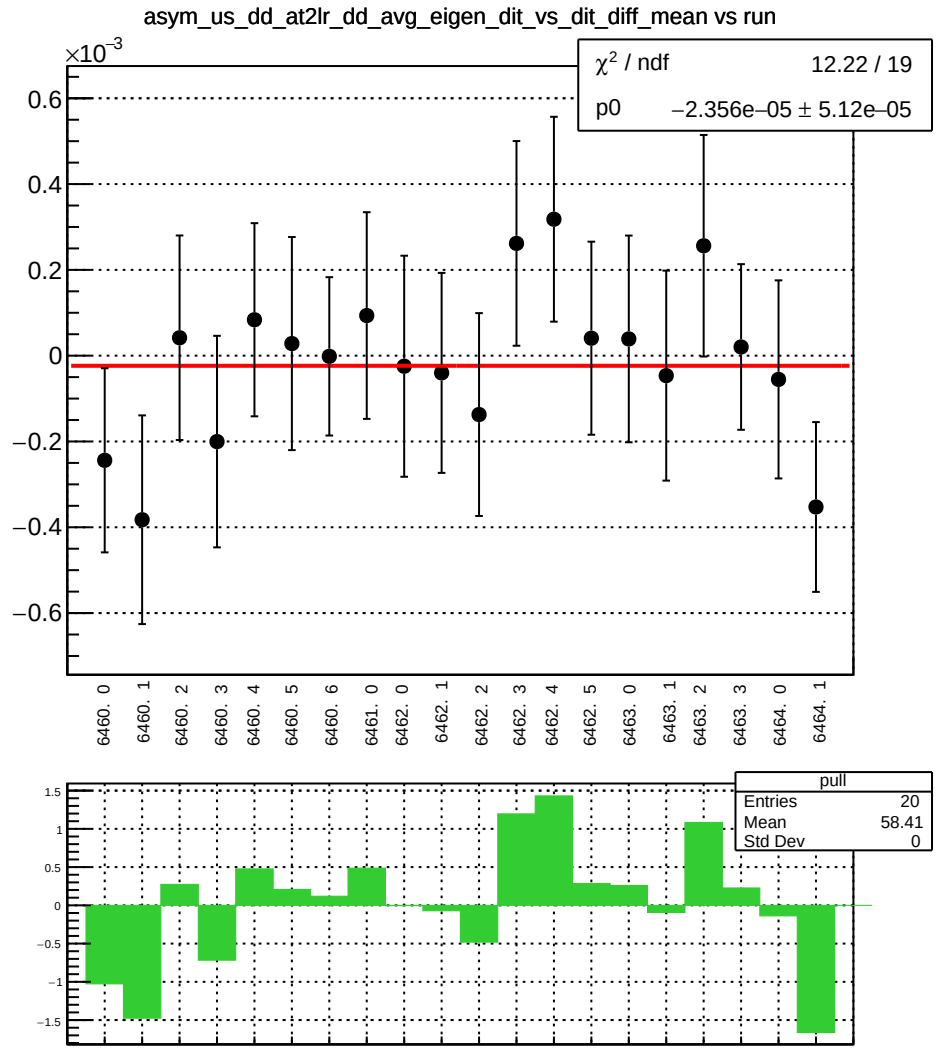

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 19.65 / 19
p0 −0.004269 ± 0.1253
3
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.755
Std Dev 7.863
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

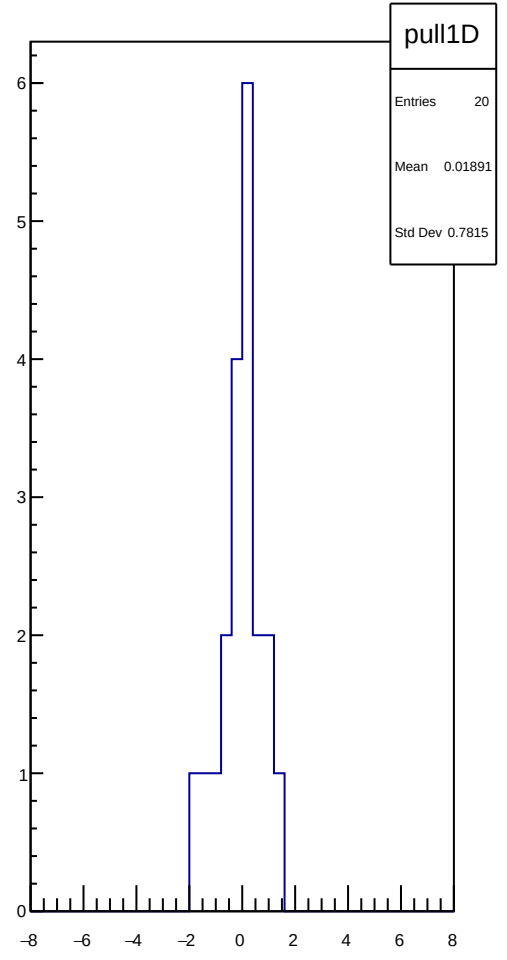

pull1D
Entries 20
Mean 0.08407
Std Dev 0.9877
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

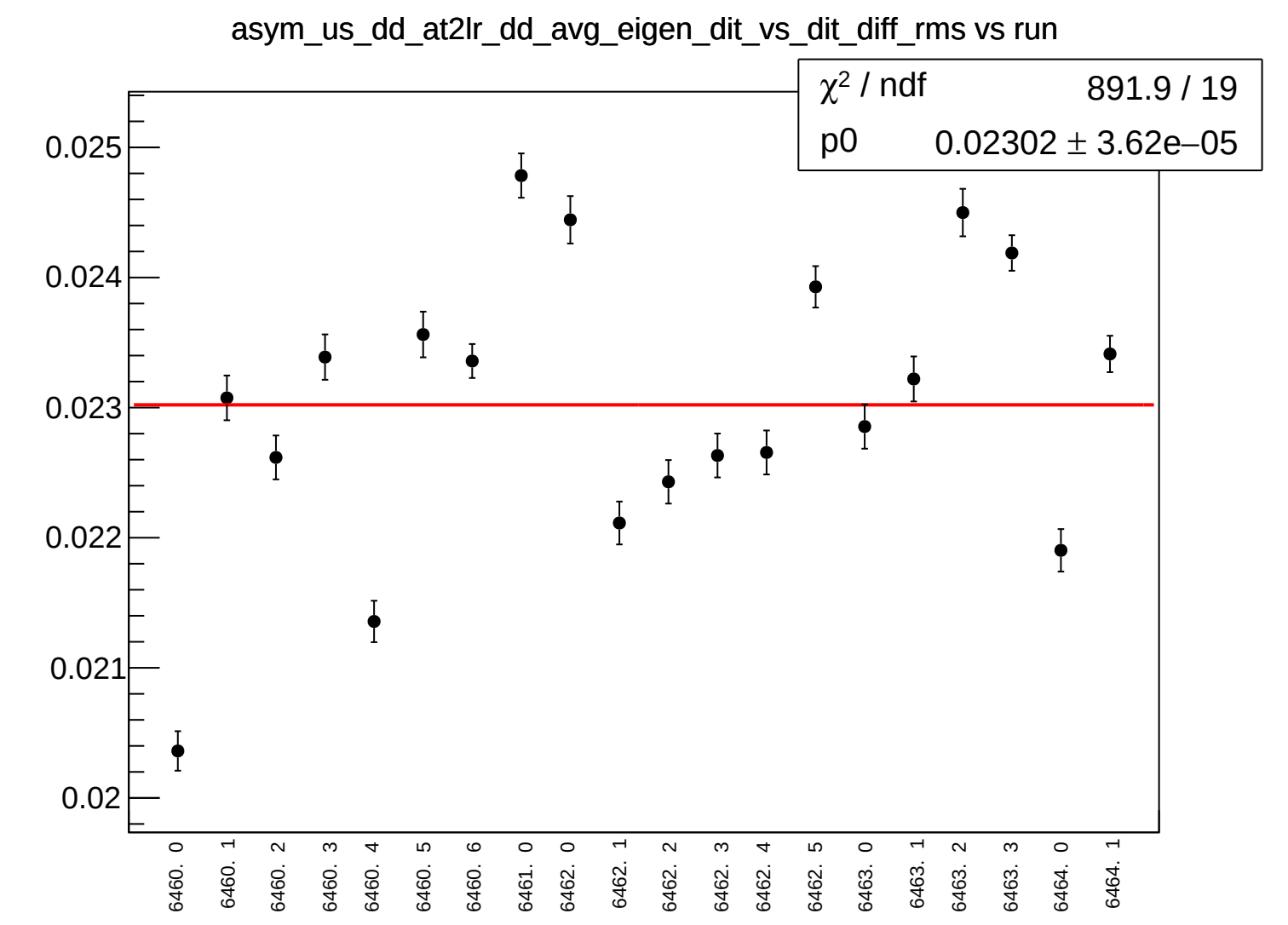

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.083e+04 / 19
p0 52.74 ± 0.0886
120
110
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

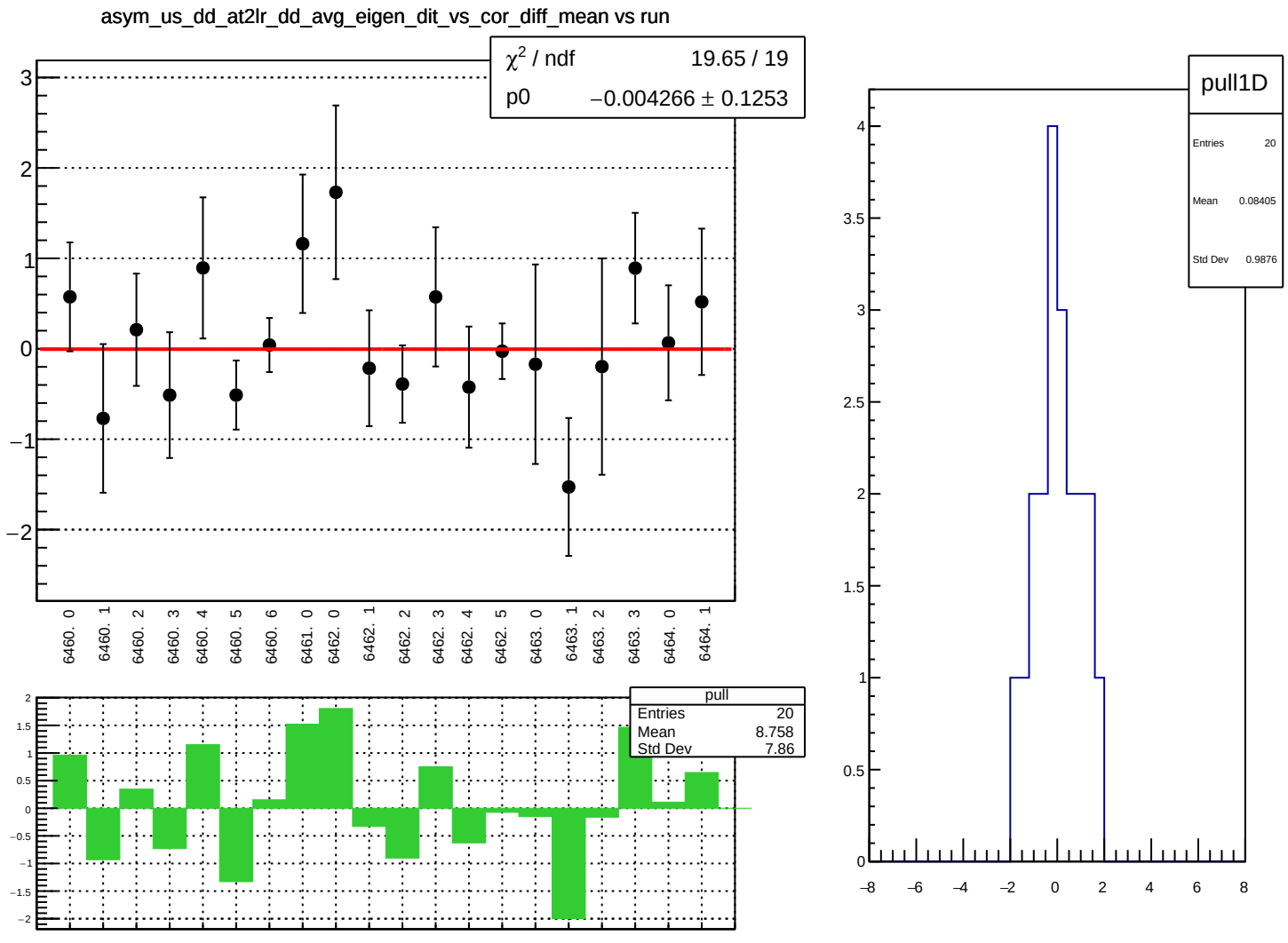

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.65 / 19
p0 −0.004269 ± 0.1253
3
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.755
Std Dev 7.863
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.08407
Std Dev 0.9877
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

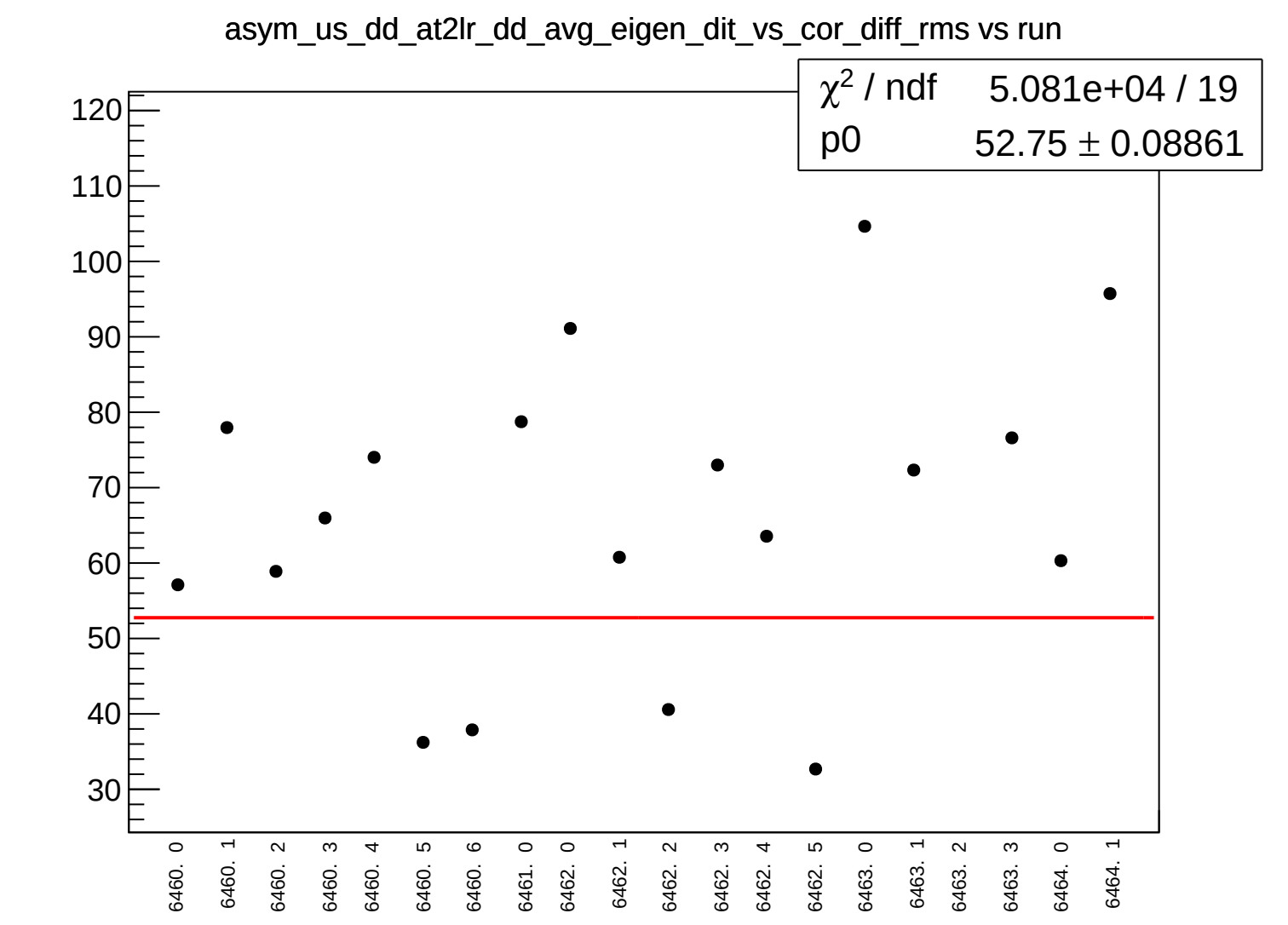

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.083e+04 / 19
p0 52.74 ± 0.0886
120
110
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

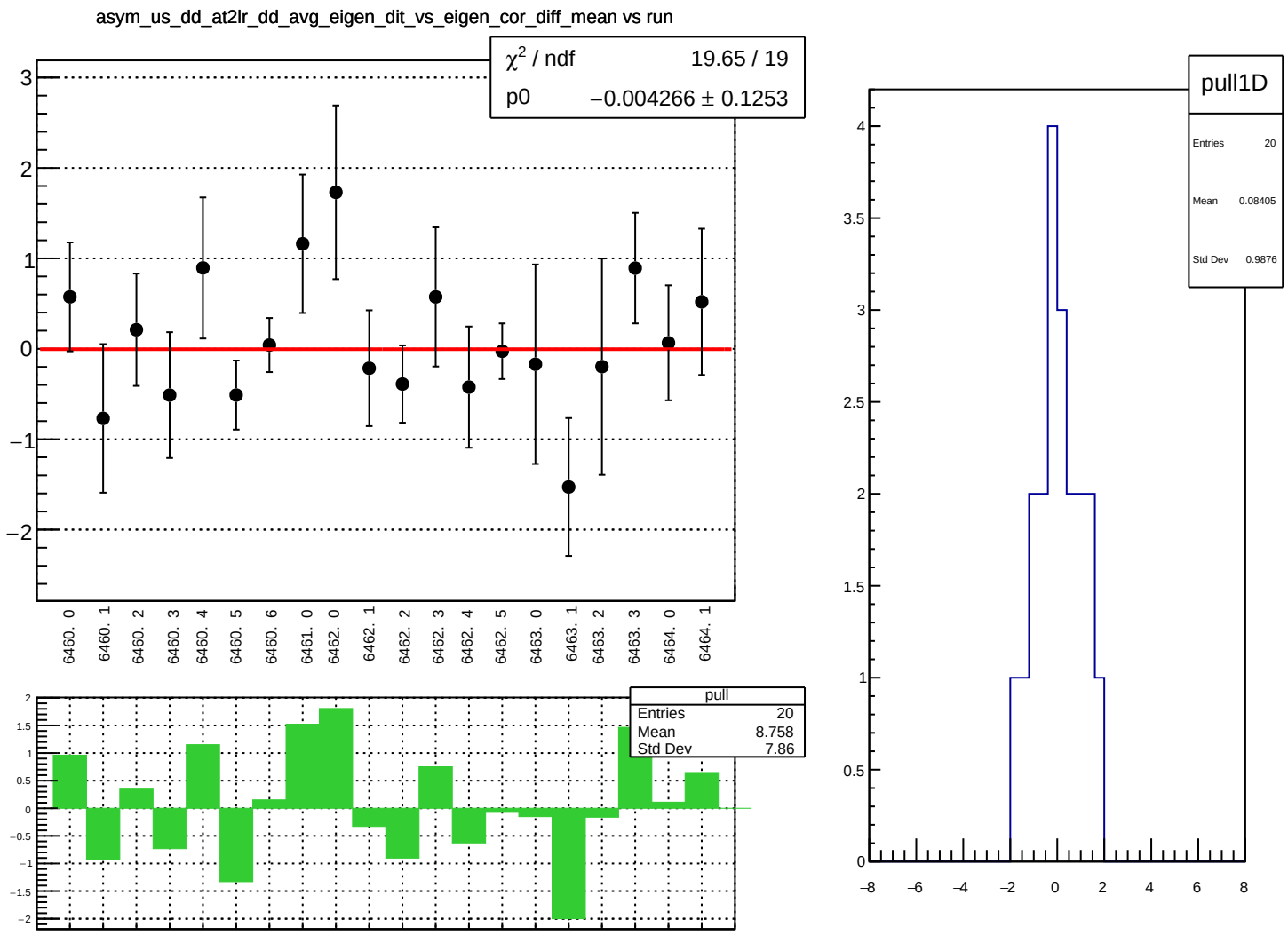

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.22 / 19
p0 −2.356e−05 ± 5.12e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.41
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

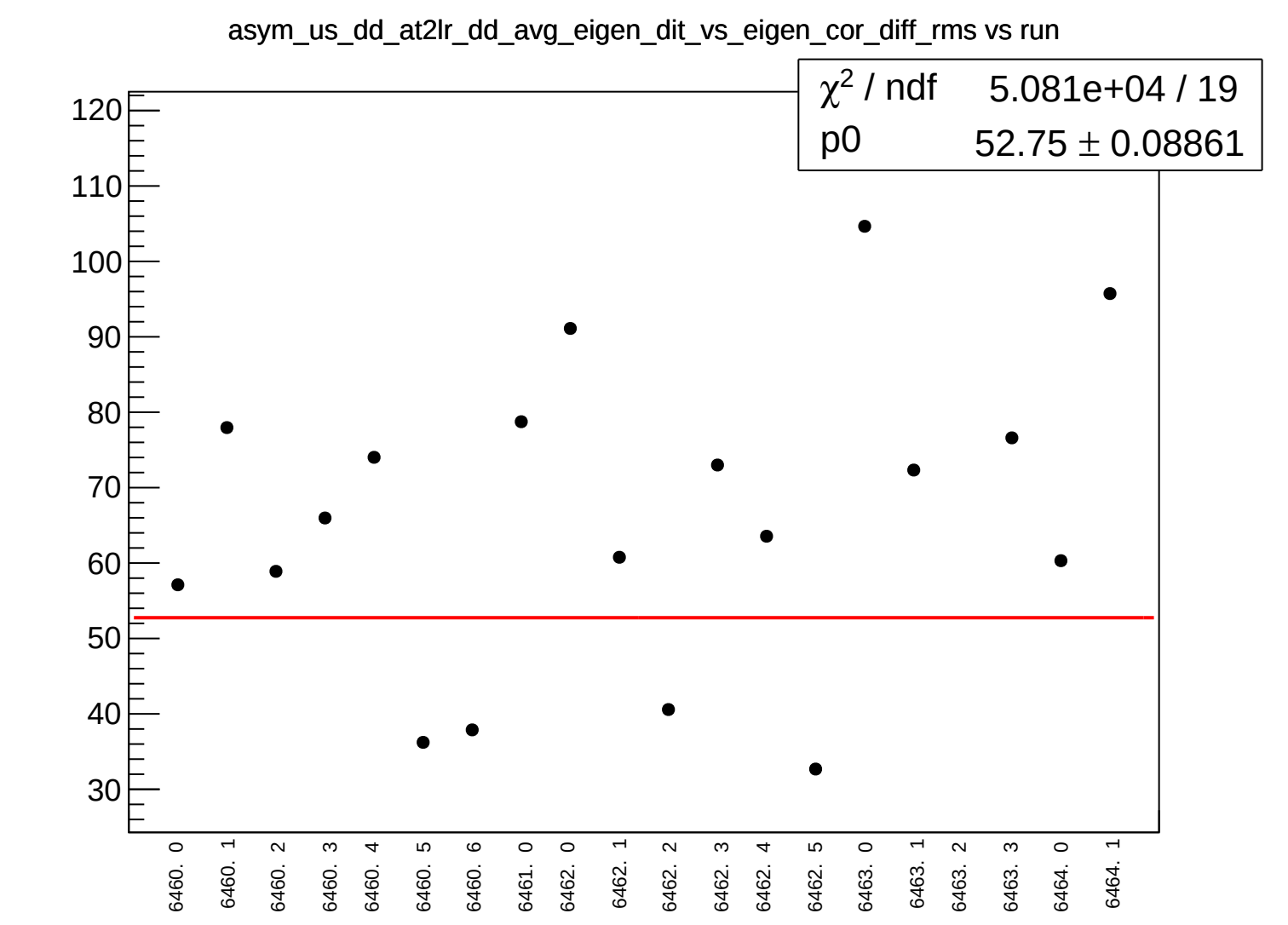

pull1D
Entries 20
Mean 0.01891
Std Dev 0.7815
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

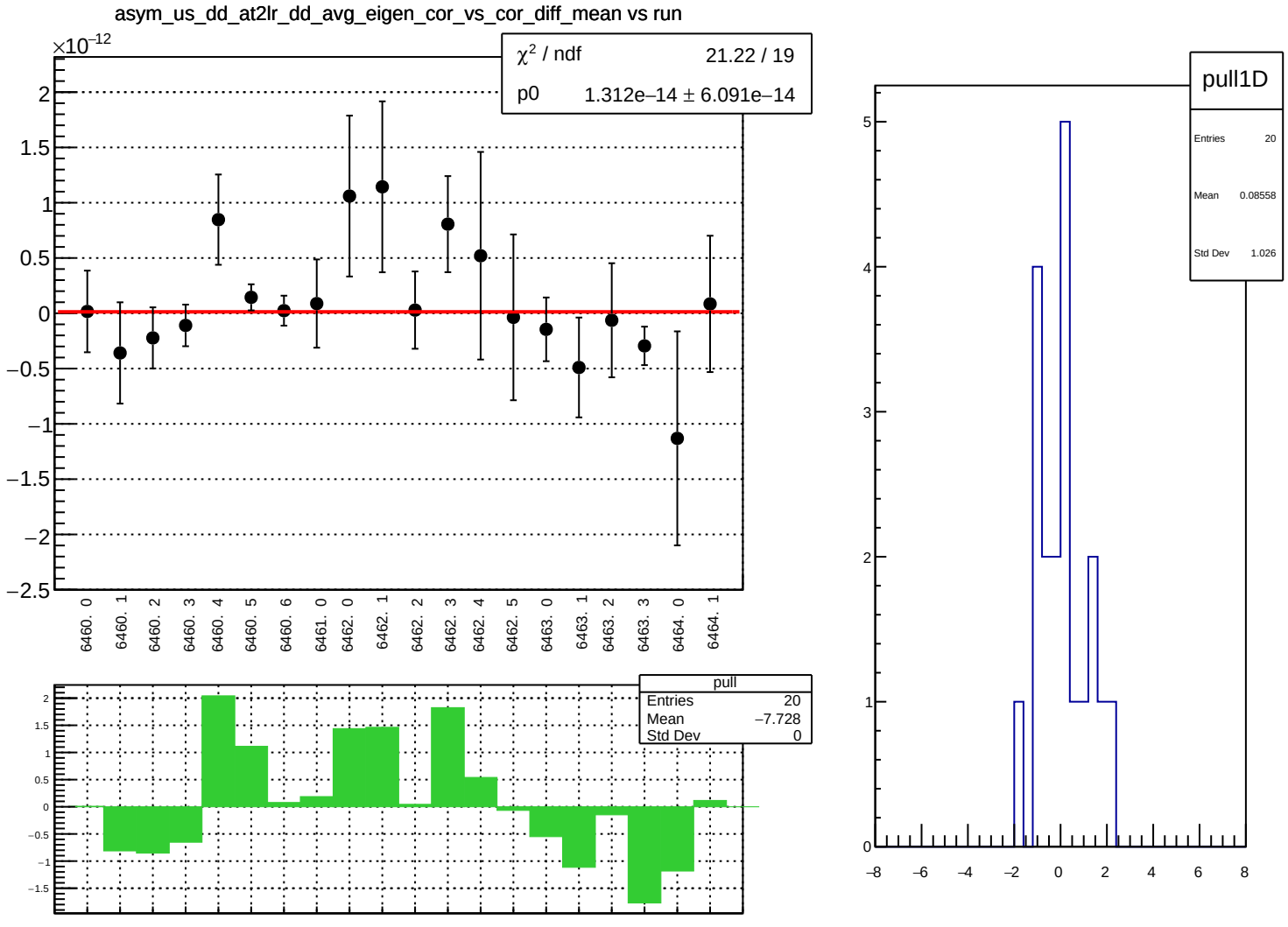

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 891.9 / 19
p0 0.02302 ± 3.62e−05
0.025
0.024
0.023
0.022
0.021
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

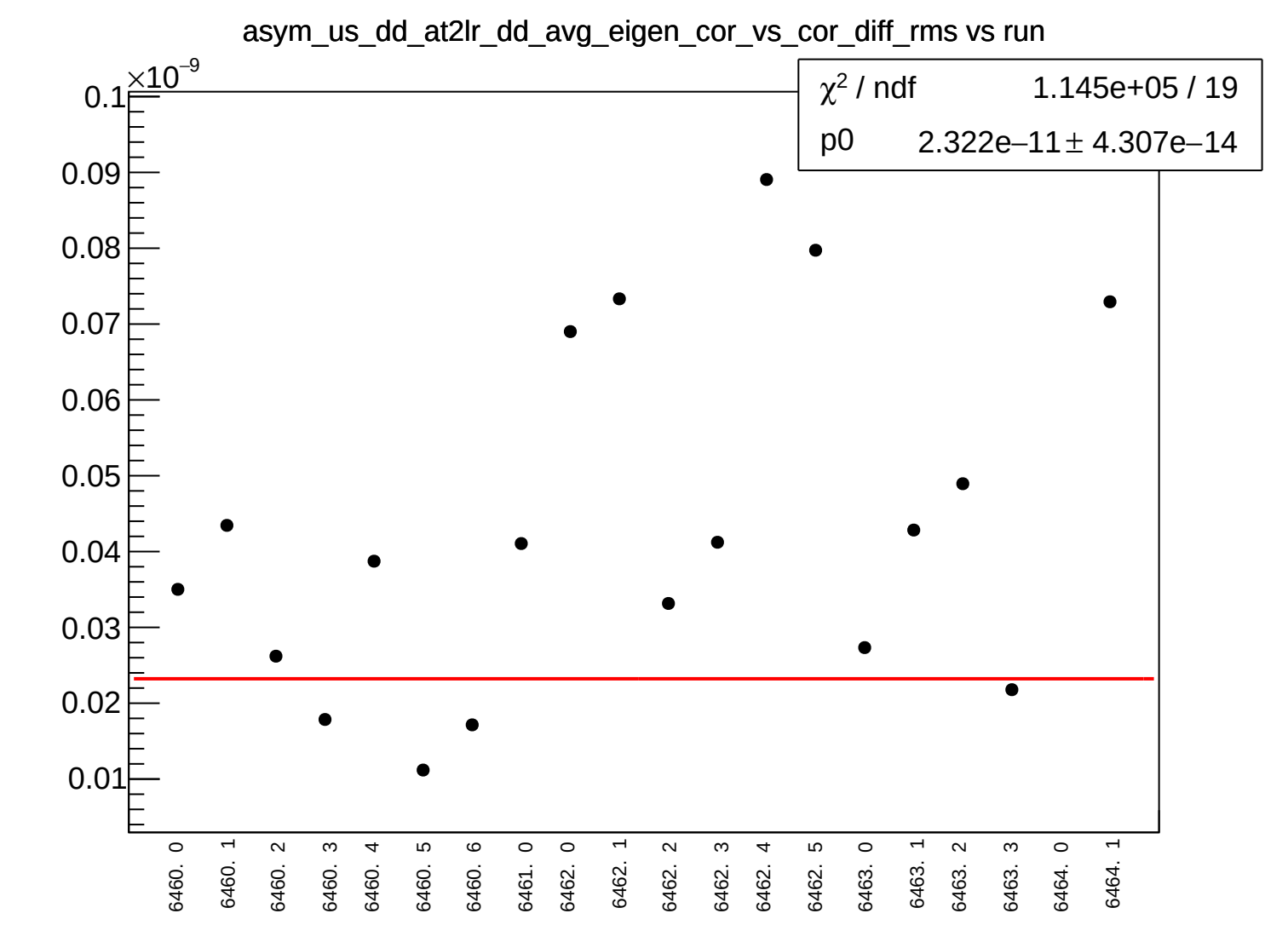

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.65 / 19
p0 −0.004266 ± 0.1253
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.758
Std Dev 7.86
pull1D
Entries 20
Mean 0.08405
Std Dev 0.9876

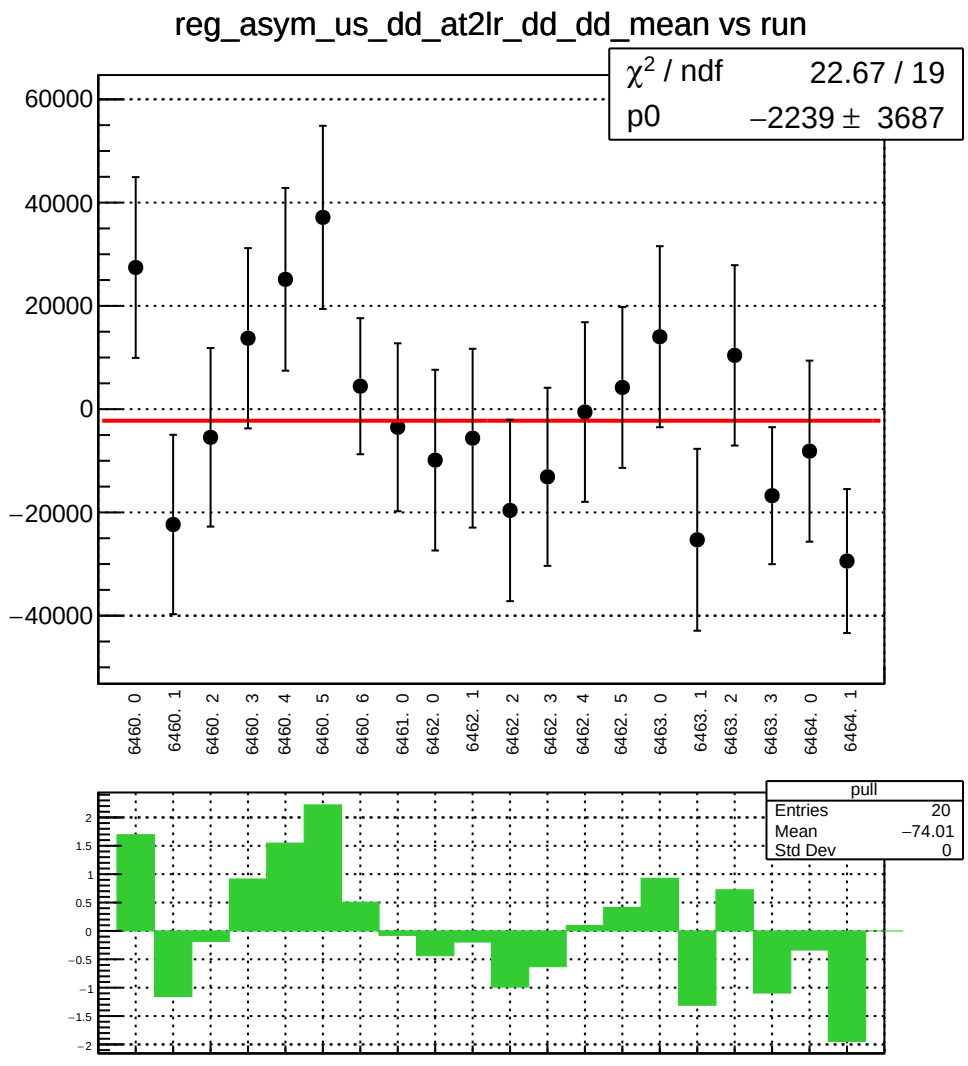

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.081e+04 / 19
p0 52.75 ± 0.08861
120
110
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

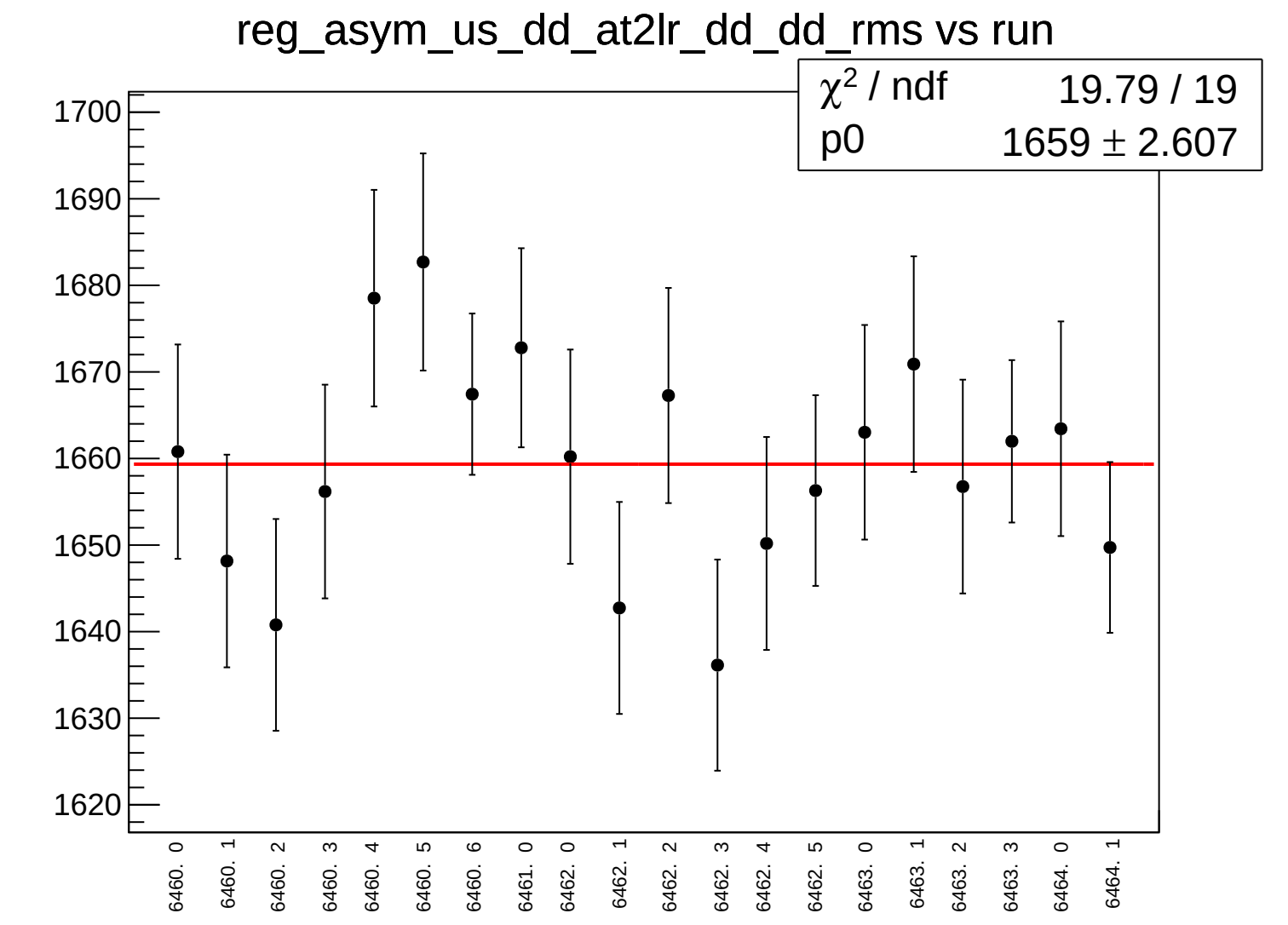

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.65 / 19
p0 −0.004266 ± 0.1253
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.758
Std Dev 7.86
pull1D
Entries 20
Mean 0.08405
Std Dev 0.9876

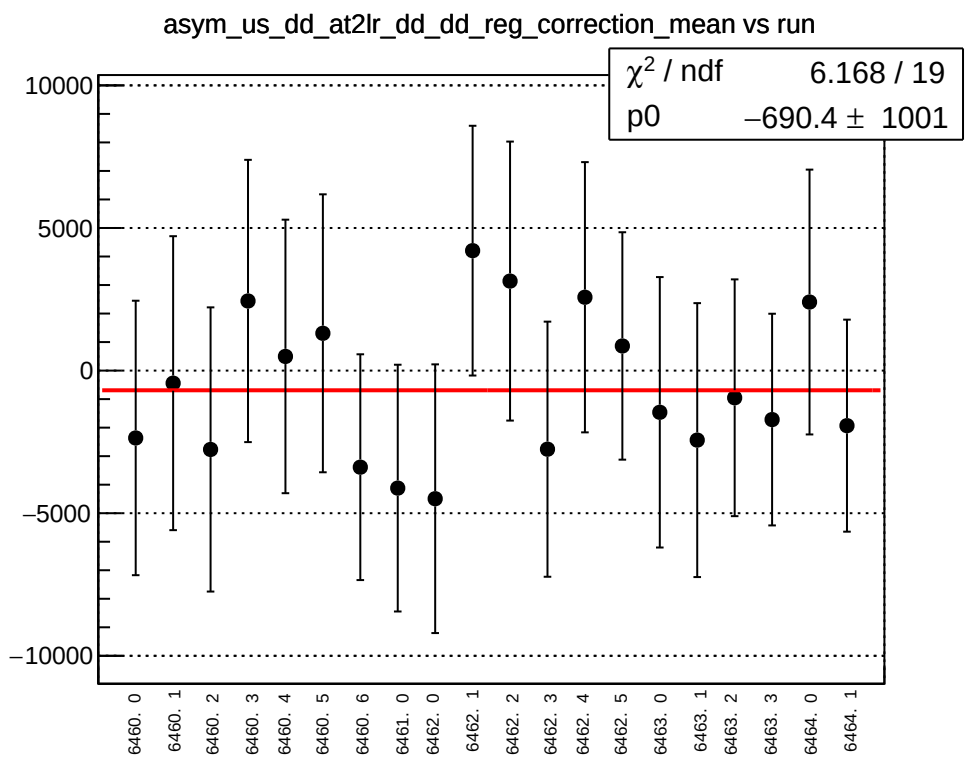

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.081e+04 / 19
p0 52.75 ± 0.08861
120
110
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

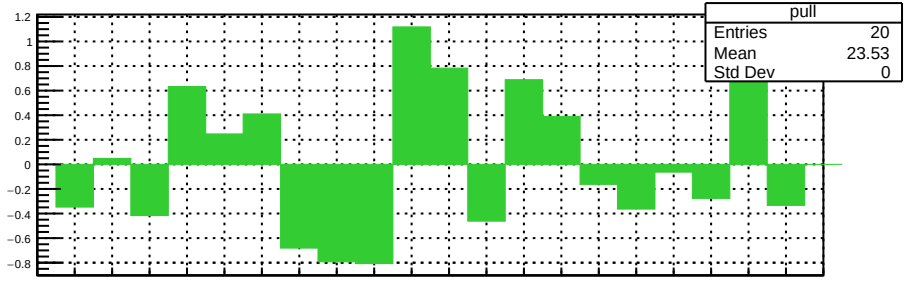

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.22 / 19
p0 1.312e−14 ± 6.091e−14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −7.728
Std Dev 0
pull1D
Entries 20
Mean 0.08558
Std Dev 1.026
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

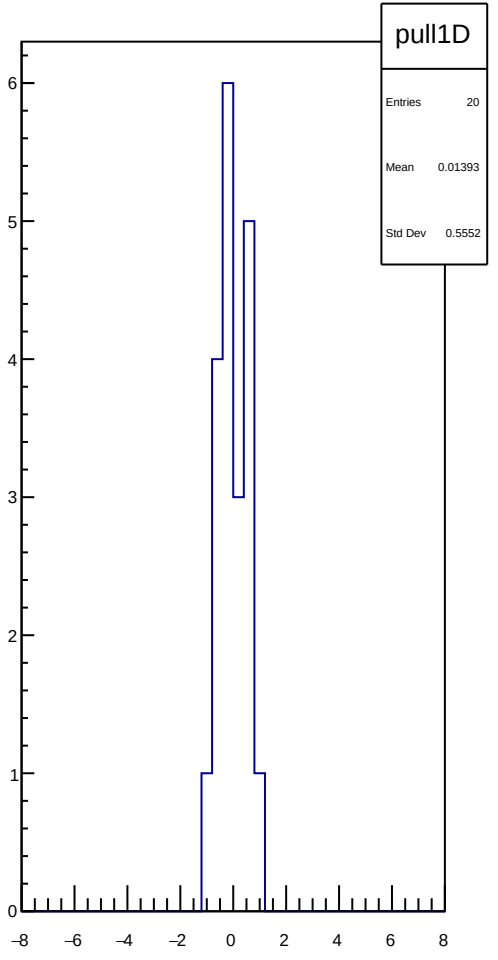

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.145e+05 / 19
p0 2.322e−11 ± 4.307e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

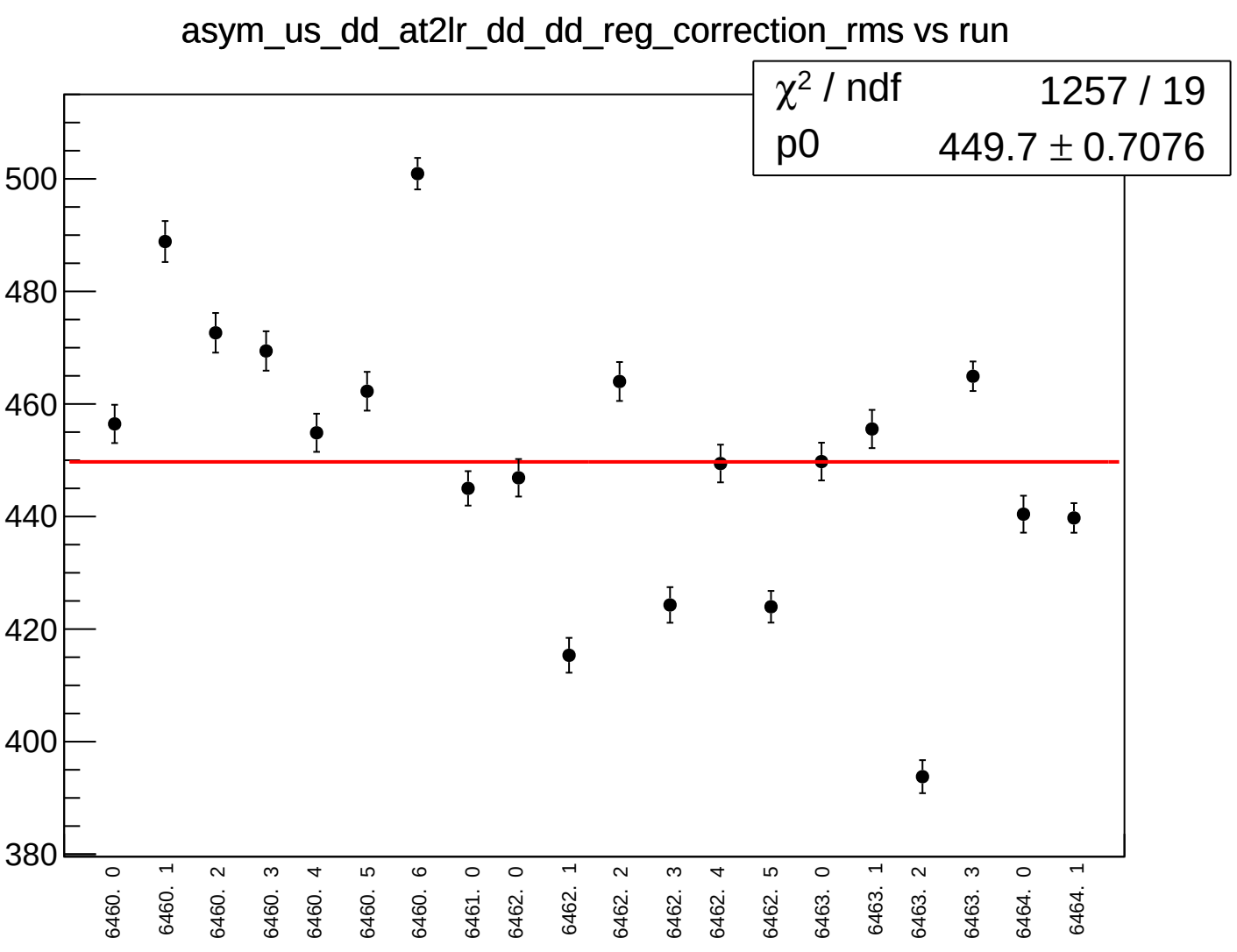

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 22.67 / 19
p0 −2239 ± 3687
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −74.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.0344
Std Dev 1.064
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

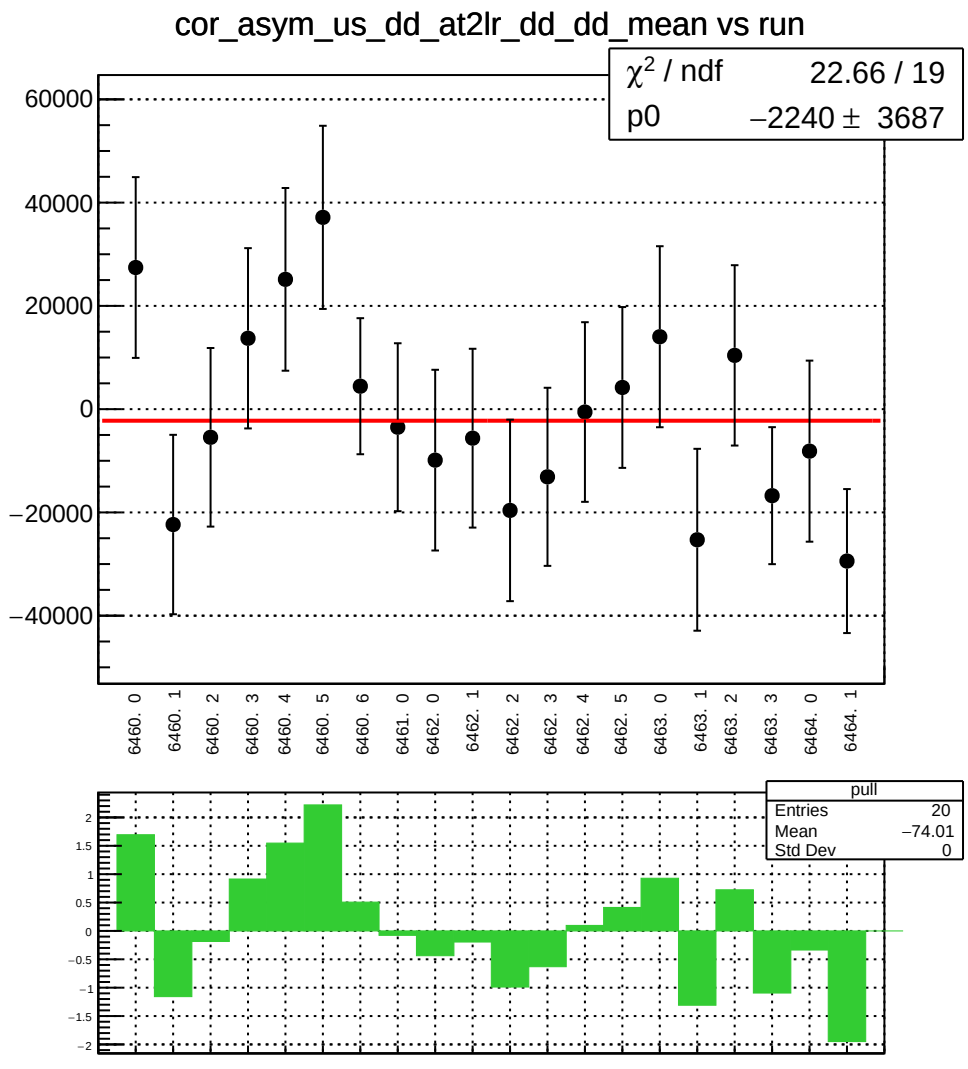

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 19.79 / 19
p0 1659 ± 2.607
1700
1690
1680
1670
1660
1650
1640
1630
1620
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

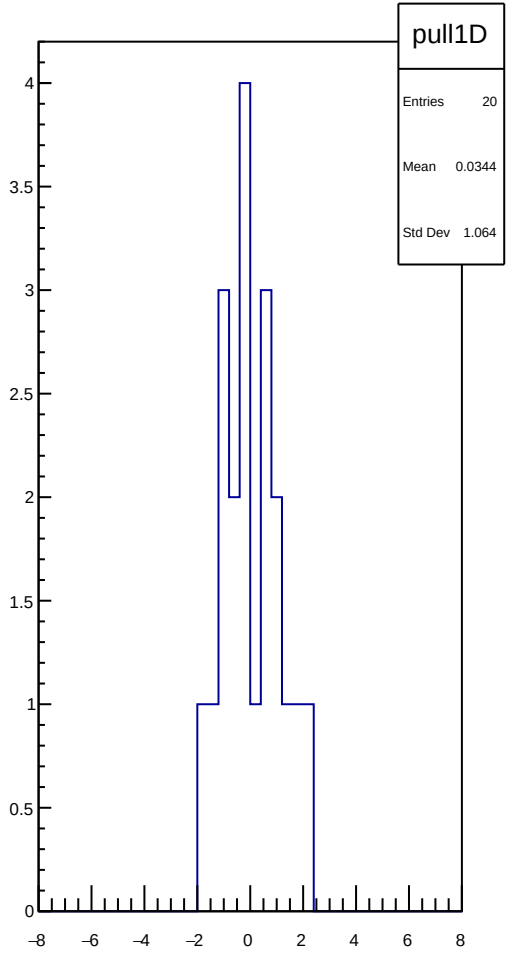

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 6.168 / 19
p0 −690.4 ± 1001
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

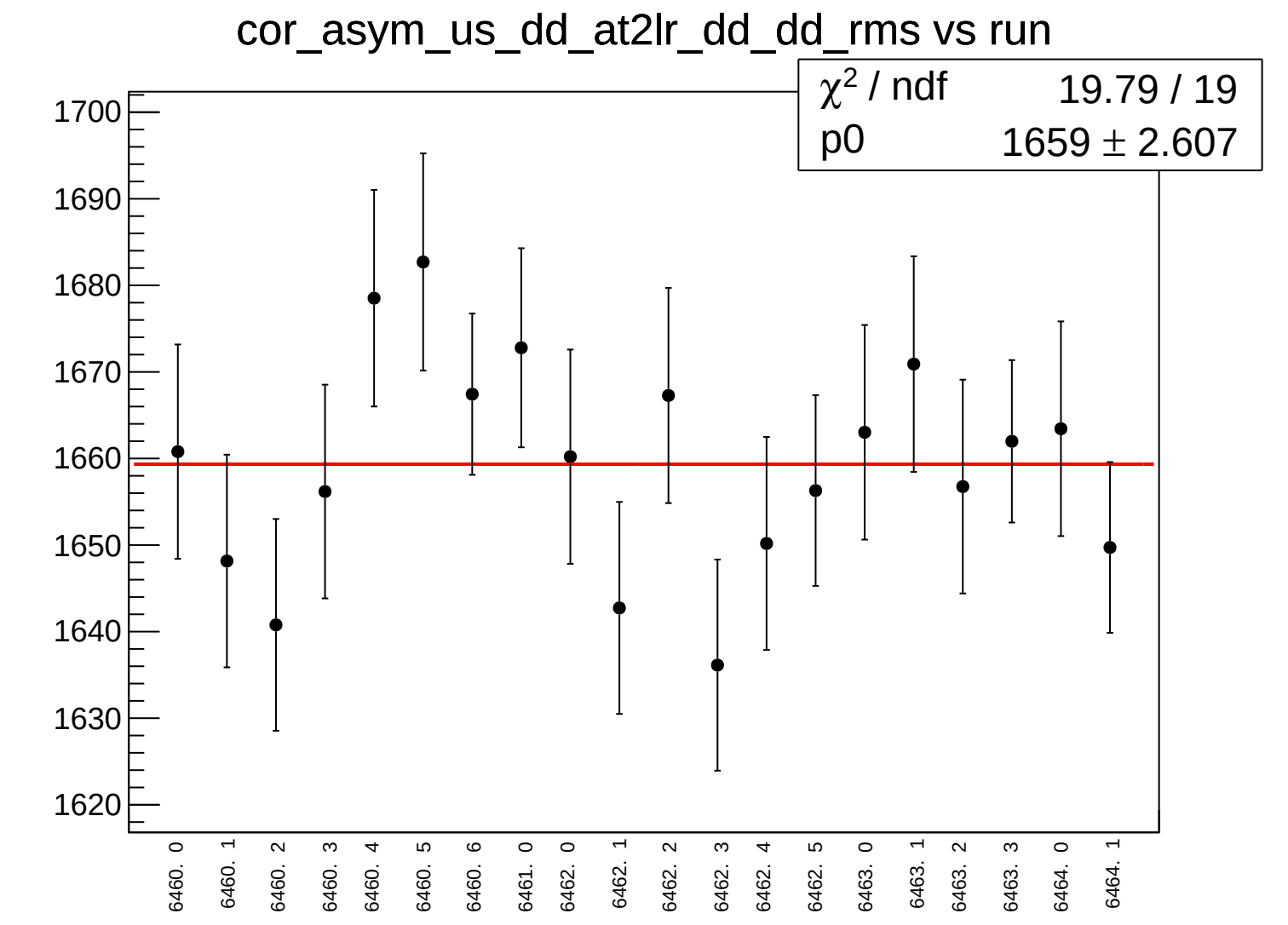

pull
Entries 20
Mean 23.53
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

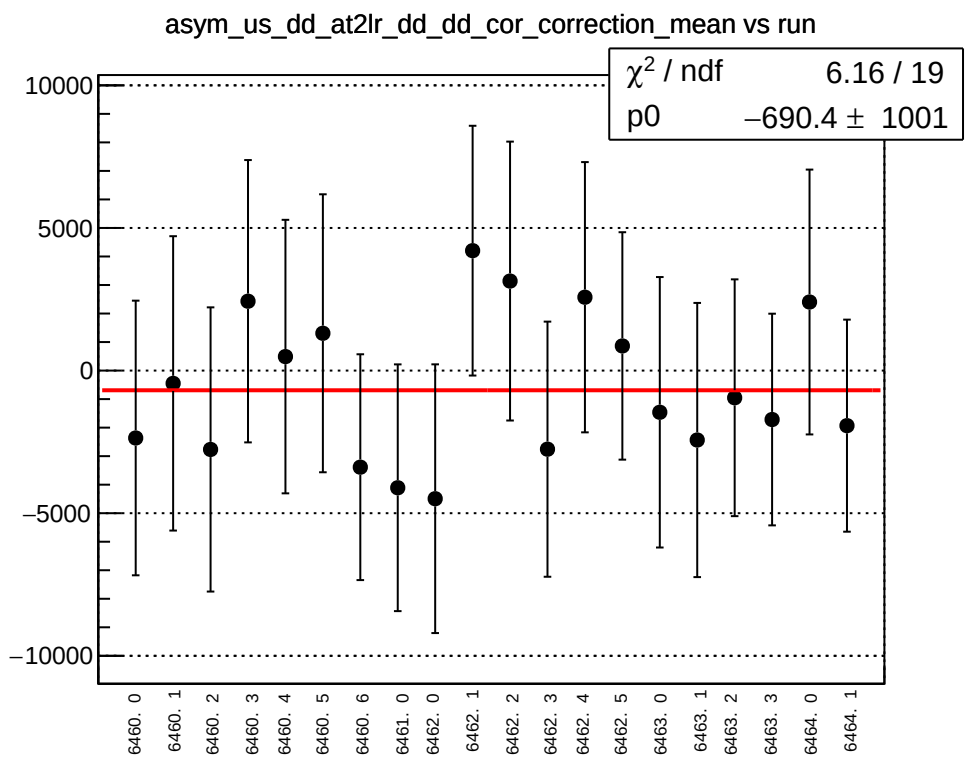

pull1D
Entries 20
Mean 0.01393
Std Dev 0.5552
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

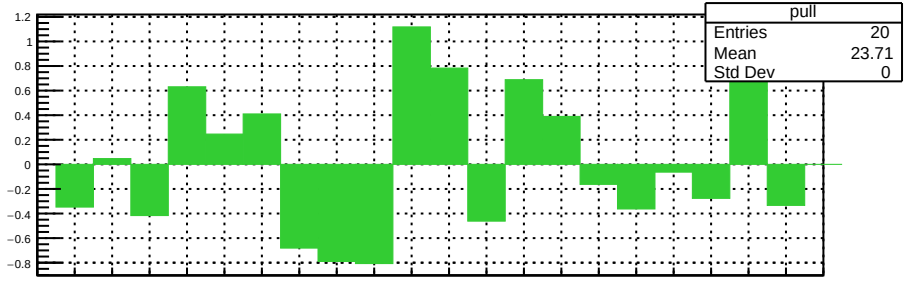

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1257 / 19
p0 449.7 ± 0.7076
500
480
460
440
420
400
380
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

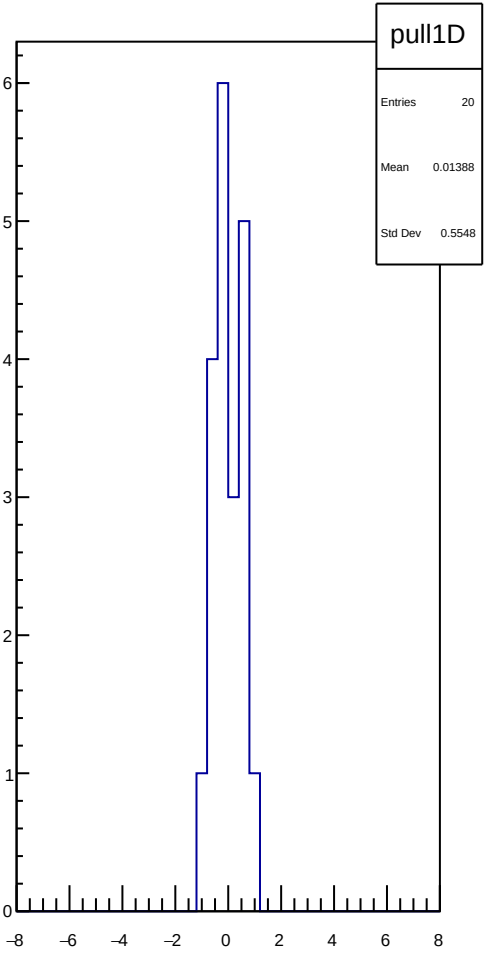

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 22.66 / 19
p0 −2240 ± 3687
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −74.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

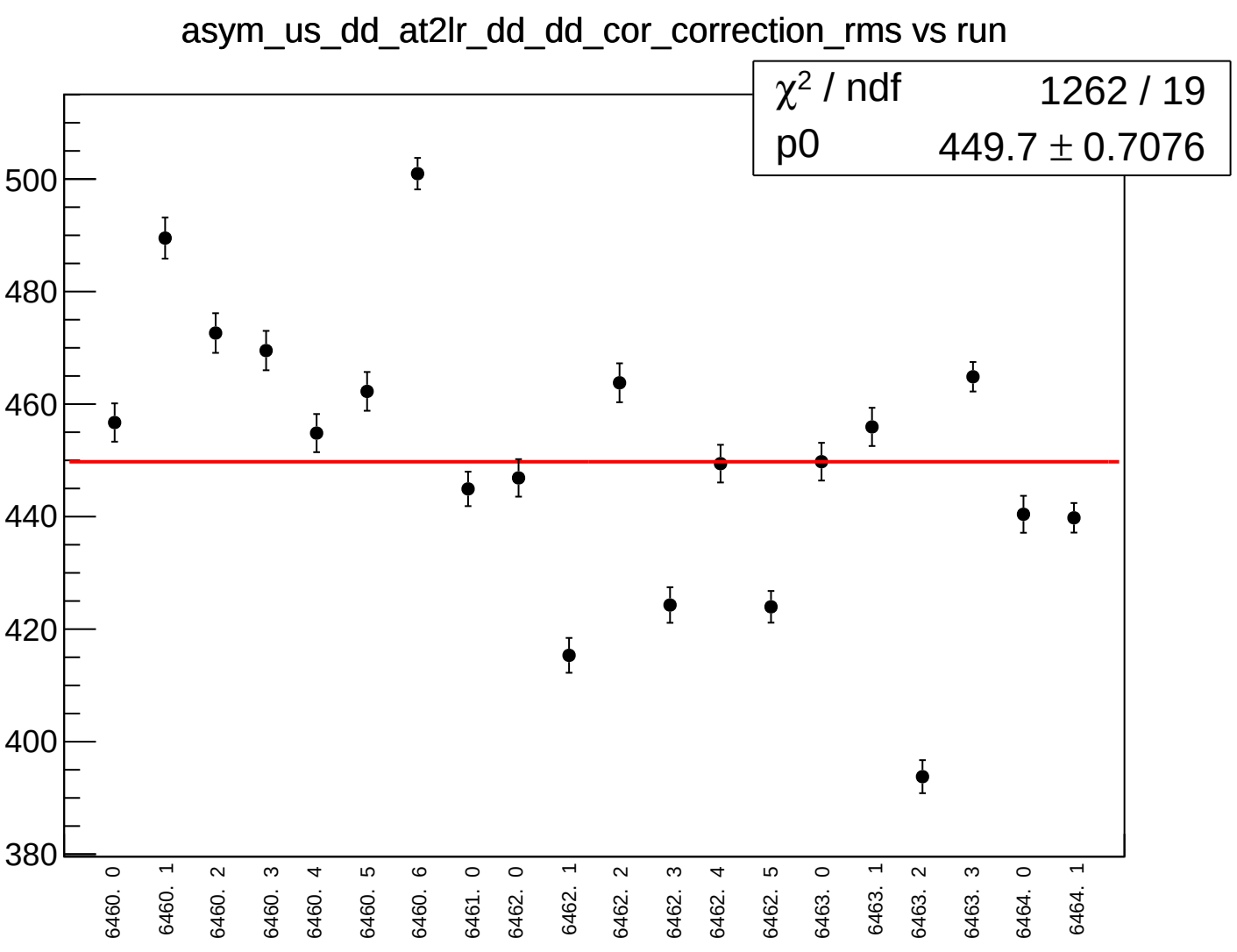

pull1D
Entries 20
Mean 0.0344
Std Dev 1.064
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

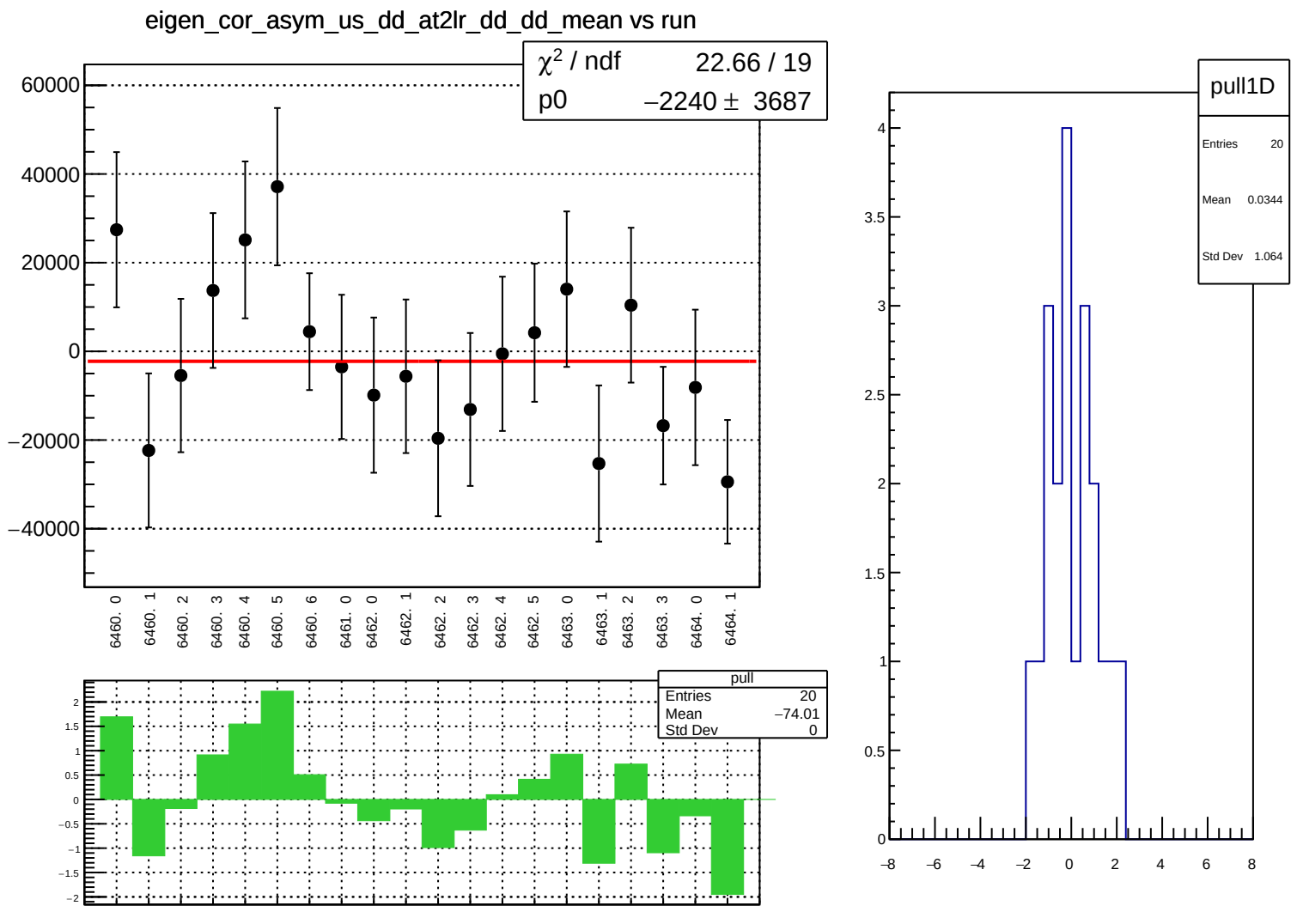

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 19.79 / 19
p0 1659 ± 2.607
1700
1690
1680
1670
1660
1650
1640
1630
1620
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

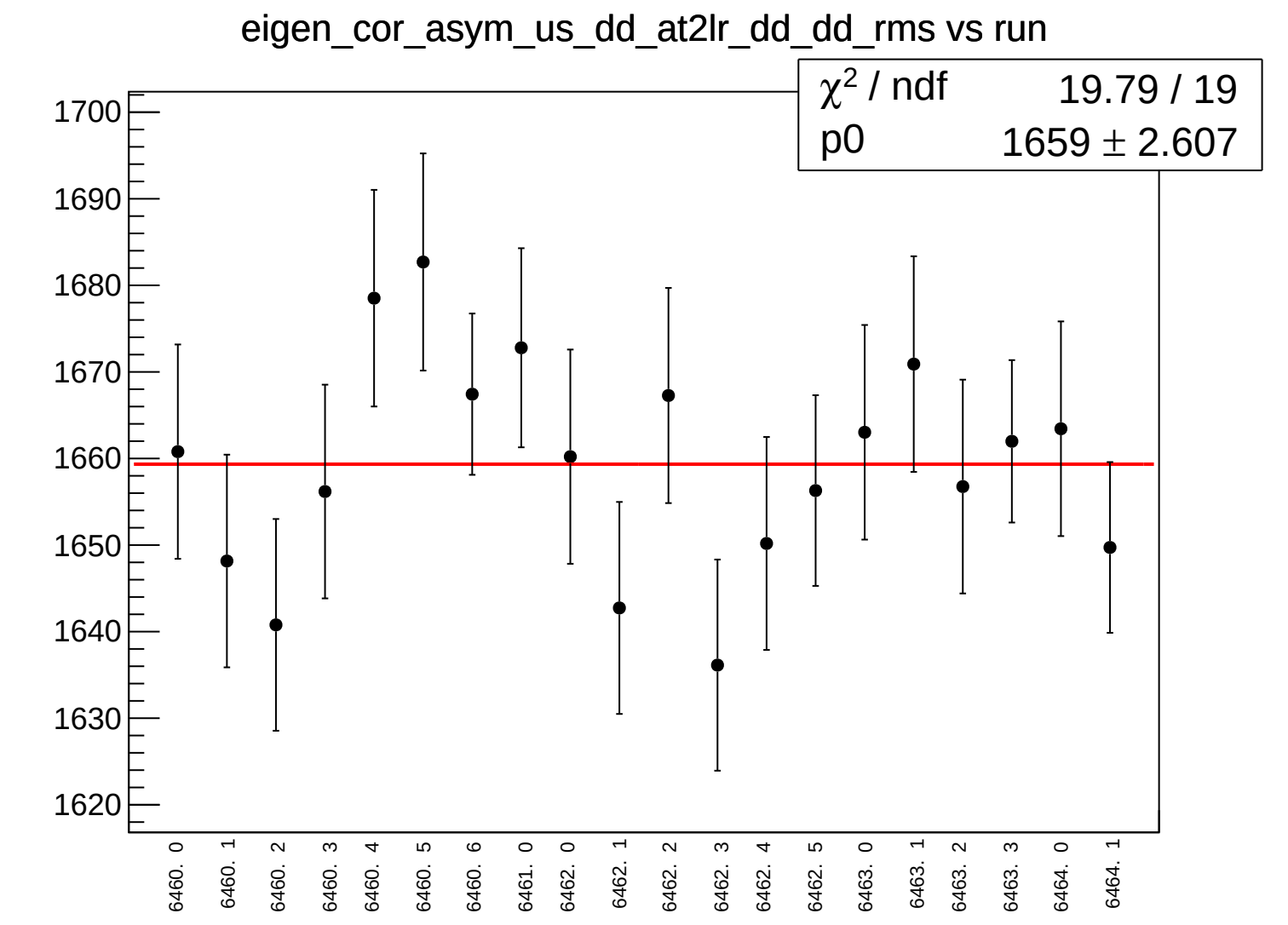

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 6.16 / 19
p0 −690.4 ± 1001
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

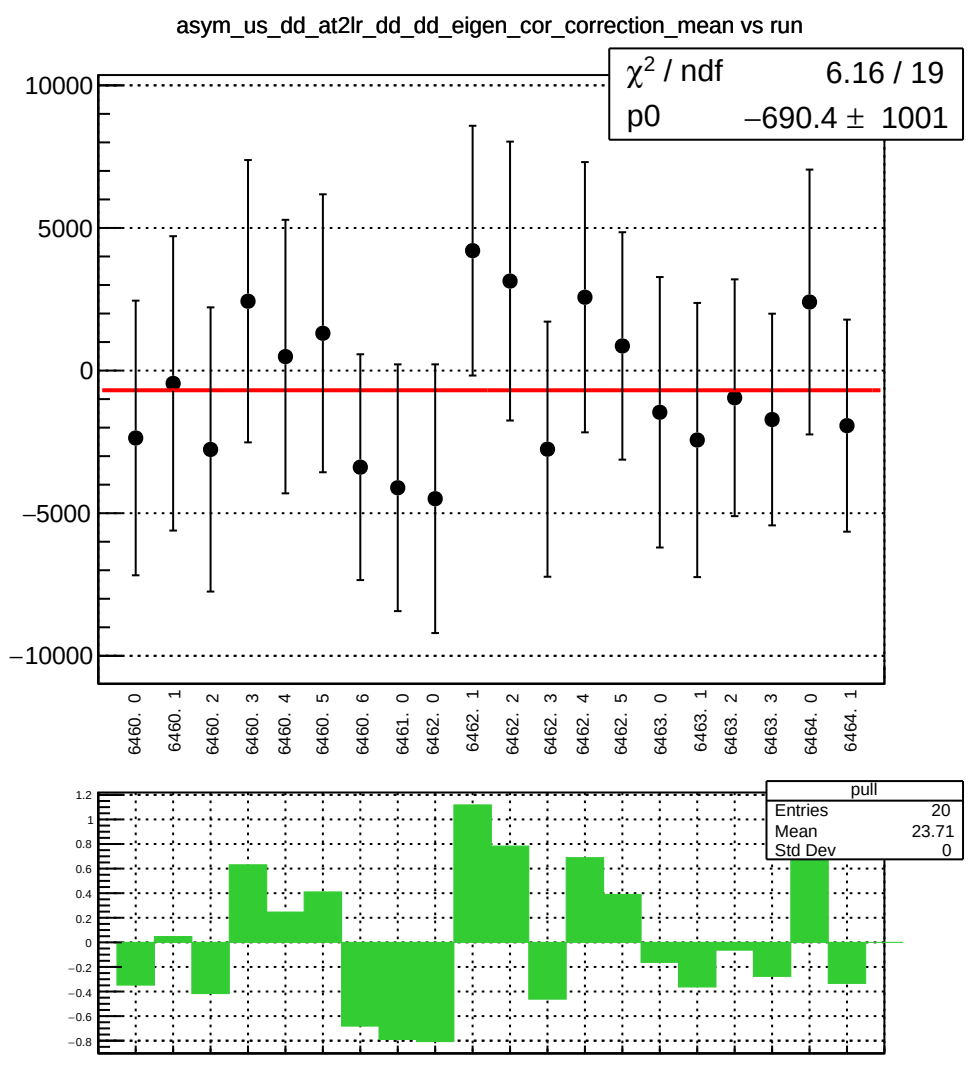

pull
Entries 20
Mean 23.71
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

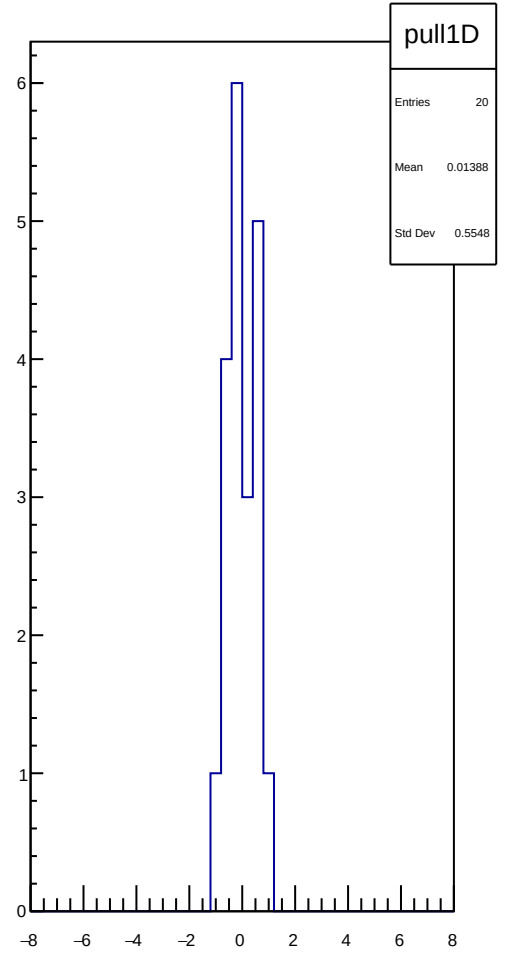

pull1D
Entries 20
Mean 0.01388
Std Dev 0.5548
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

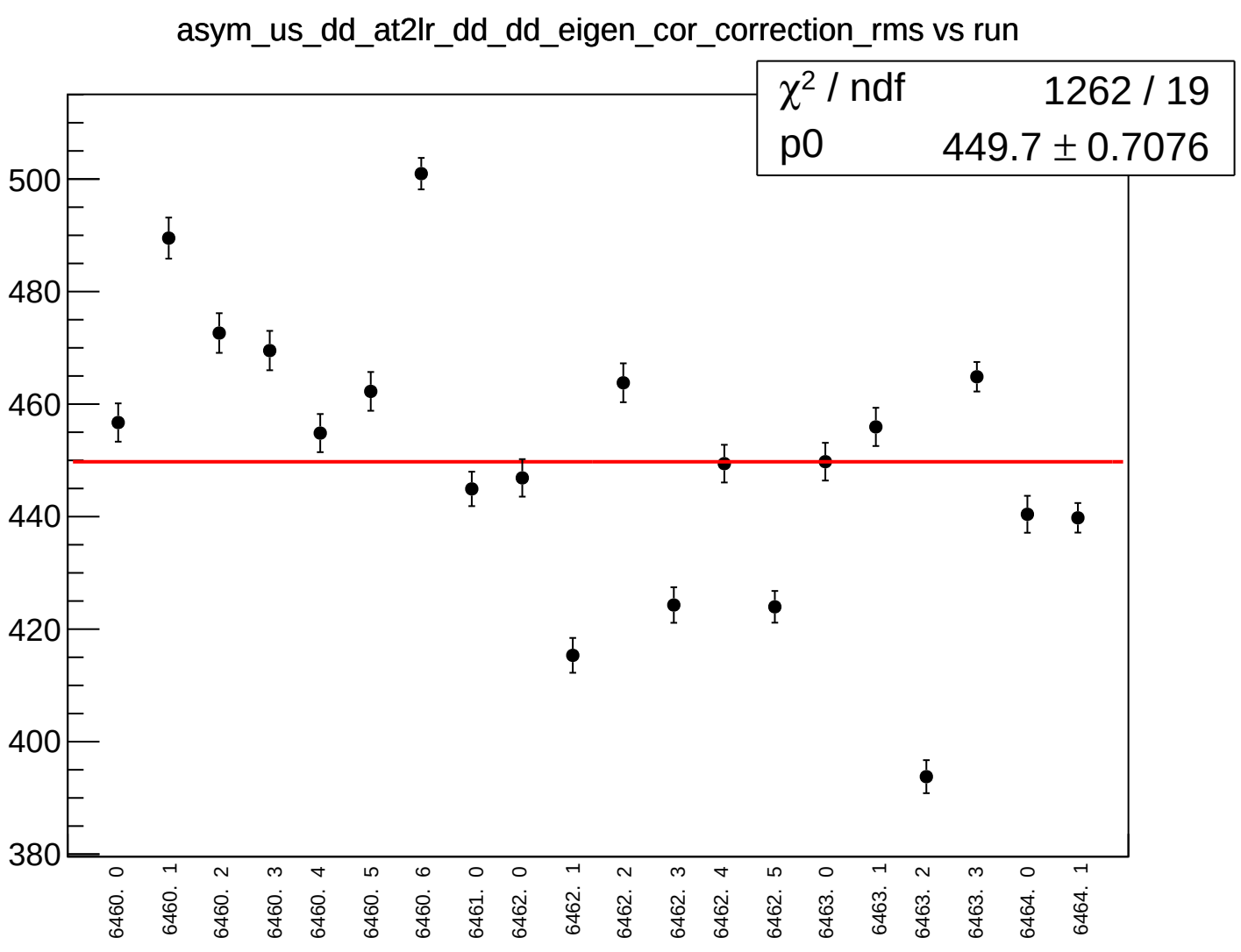

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1262 / 19
p0 449.7 ± 0.7076
500
480
460
440
420
400
380
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

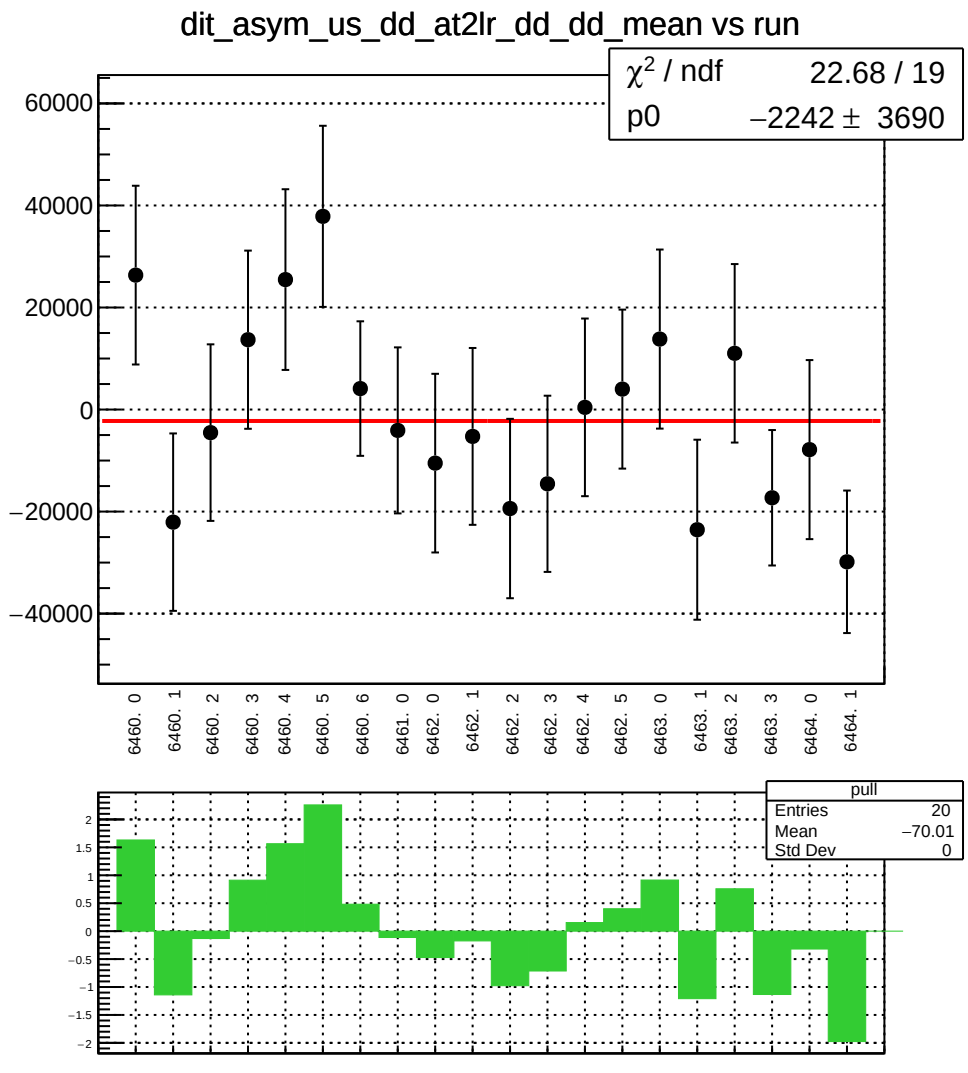

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 22.66 / 19
p0 −2240 ± 3687
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −74.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.0344
Std Dev 1.064
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

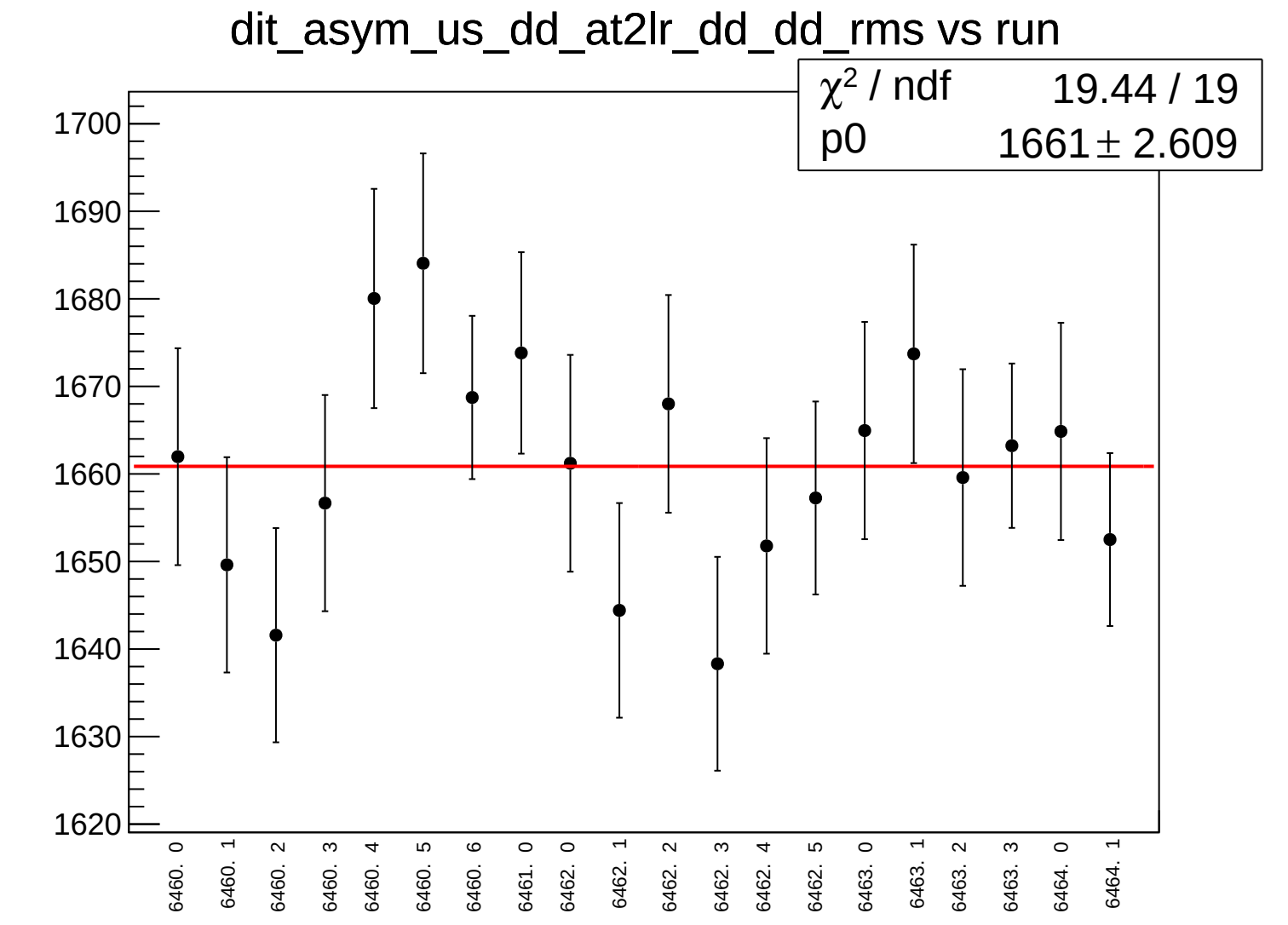

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 19.79 / 19
p0 1659 ± 2.607
1700
1690
1680
1670
1660
1650
1640
1630
1620
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

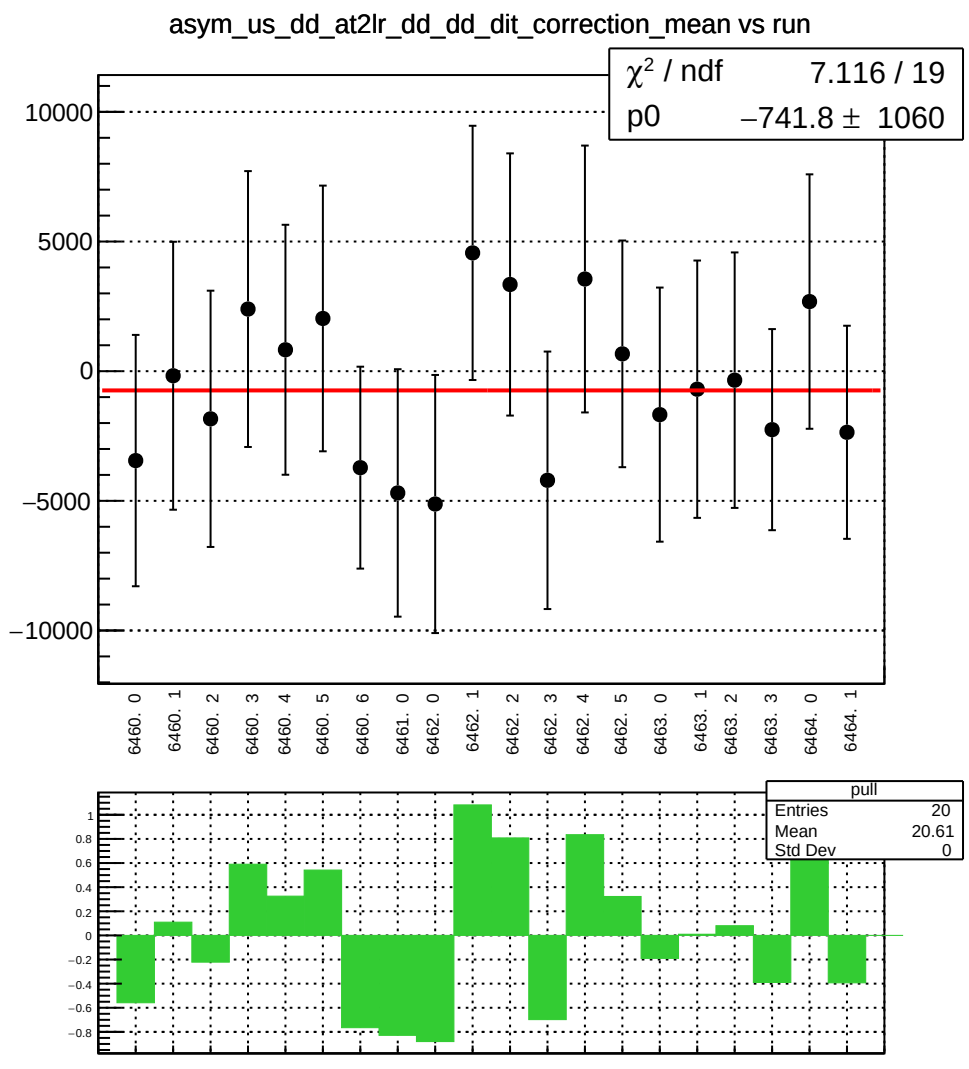

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 6.16 / 19
p0 −690.4 ± 1001
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.71
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

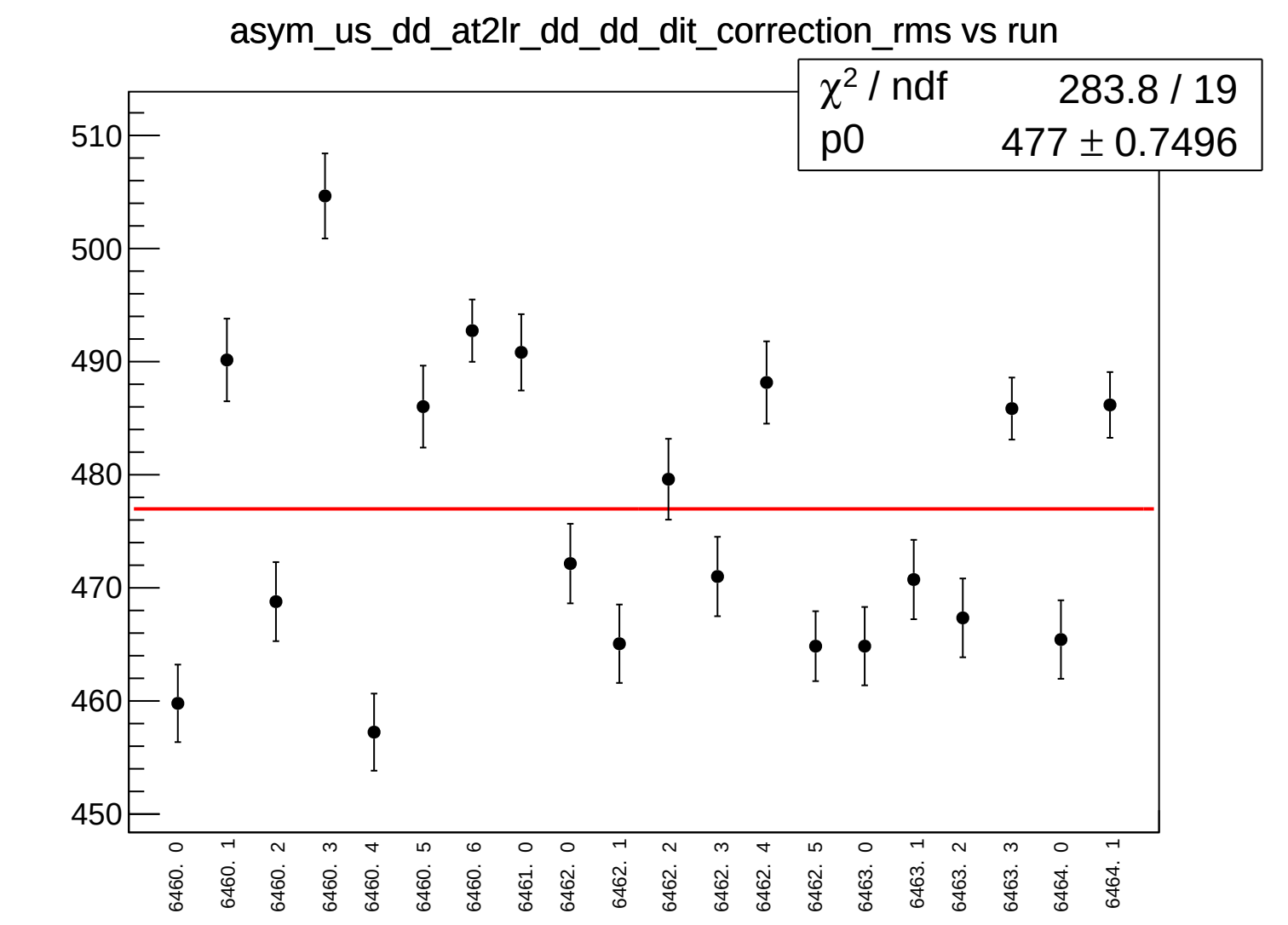

pull1D
Entries 20
Mean 0.01388
Std Dev 0.5548
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

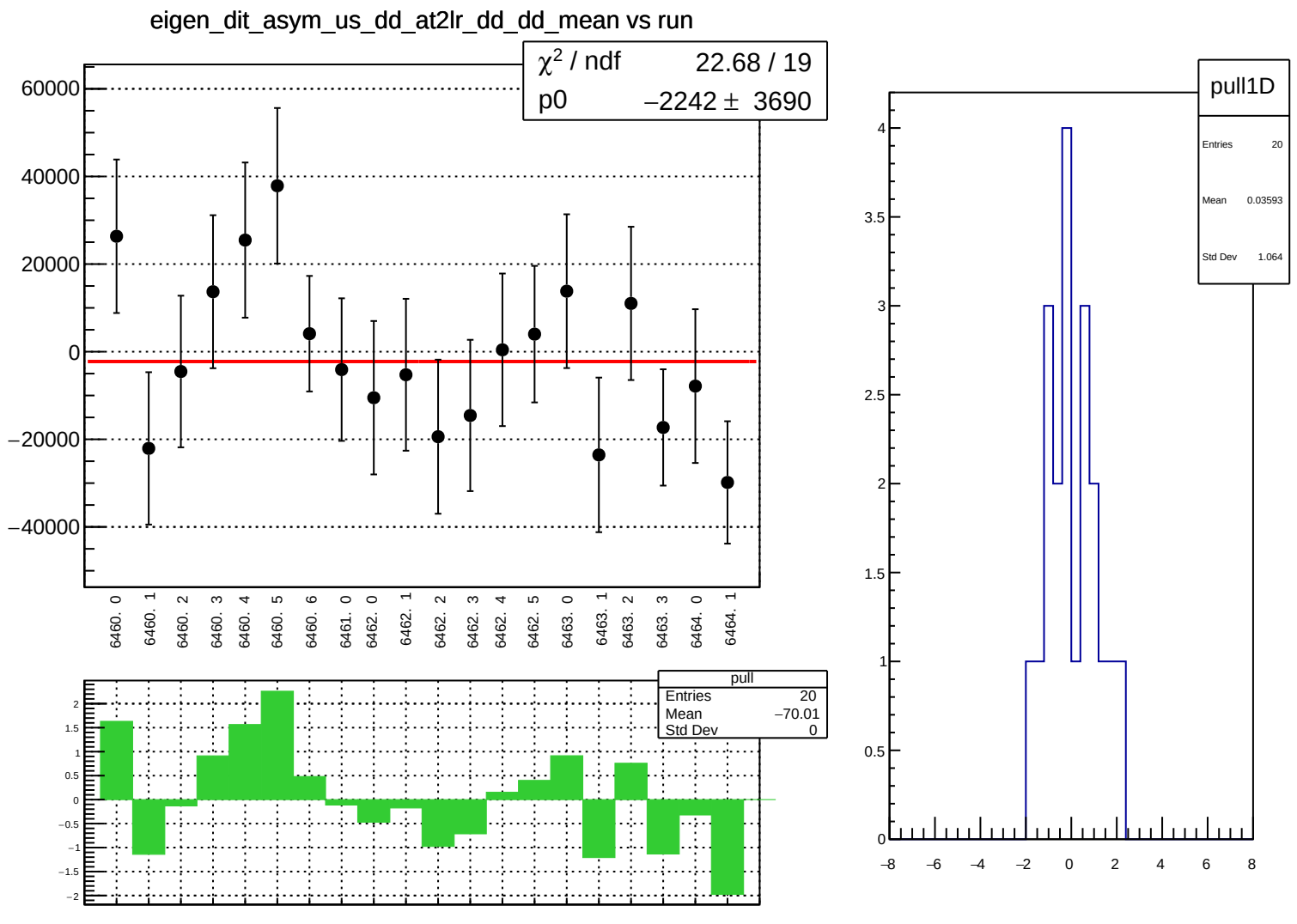

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1262 / 19
p0 449.7 ± 0.7076
500
480
460
440
420
400
380
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

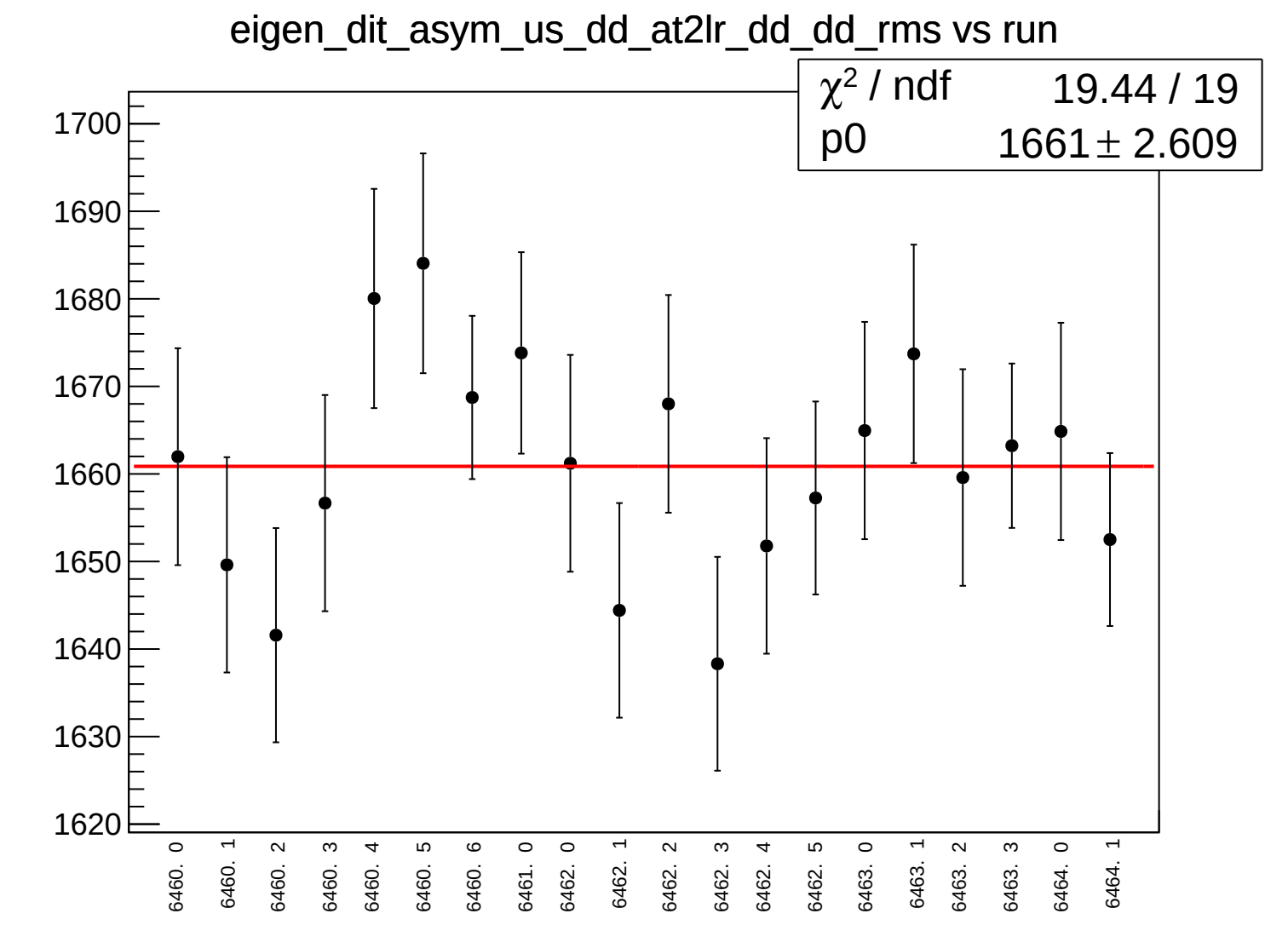

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 22.68 / 19
p0 −2242 ± 3690
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −70.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.03593
Std Dev 1.064
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

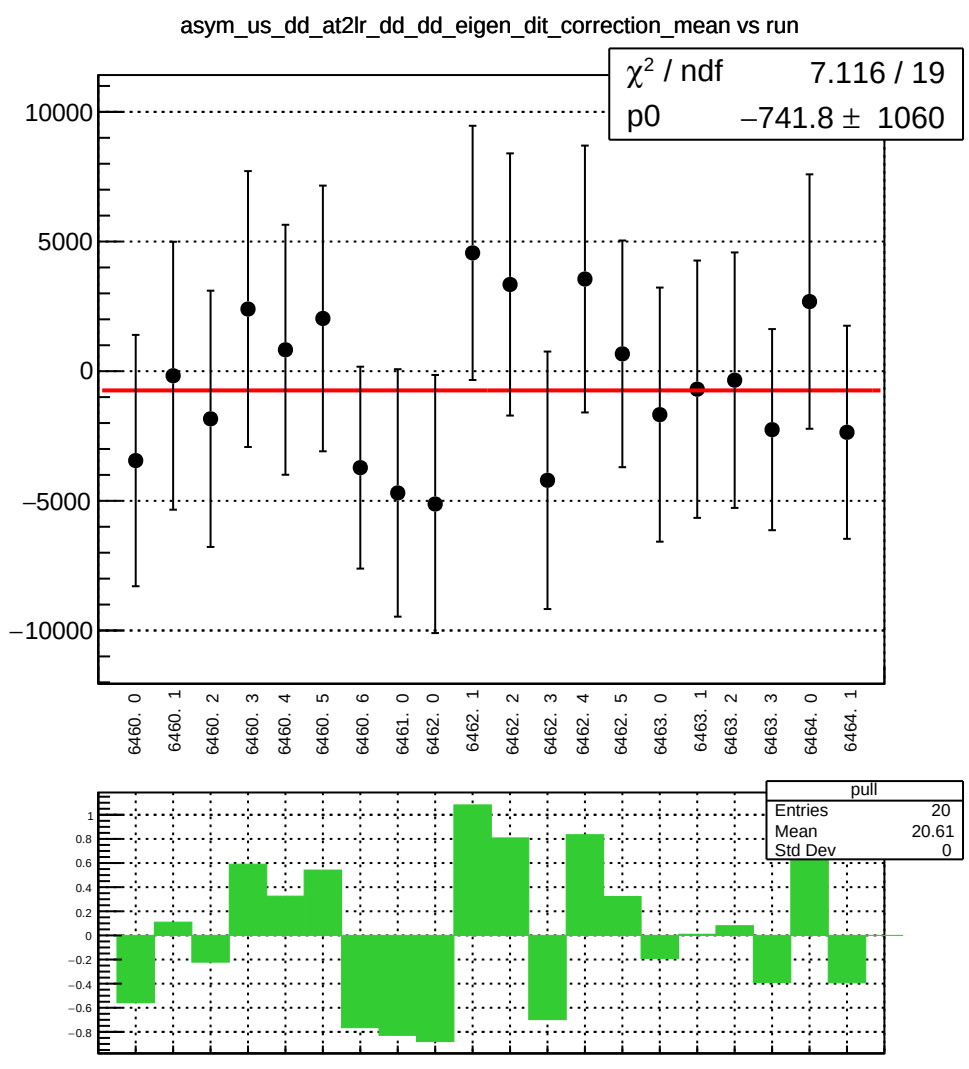

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 19.44 / 19
p0 1661 ± 2.609
1700
1690
1680
1670
1660
1650
1640
1630
1620
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

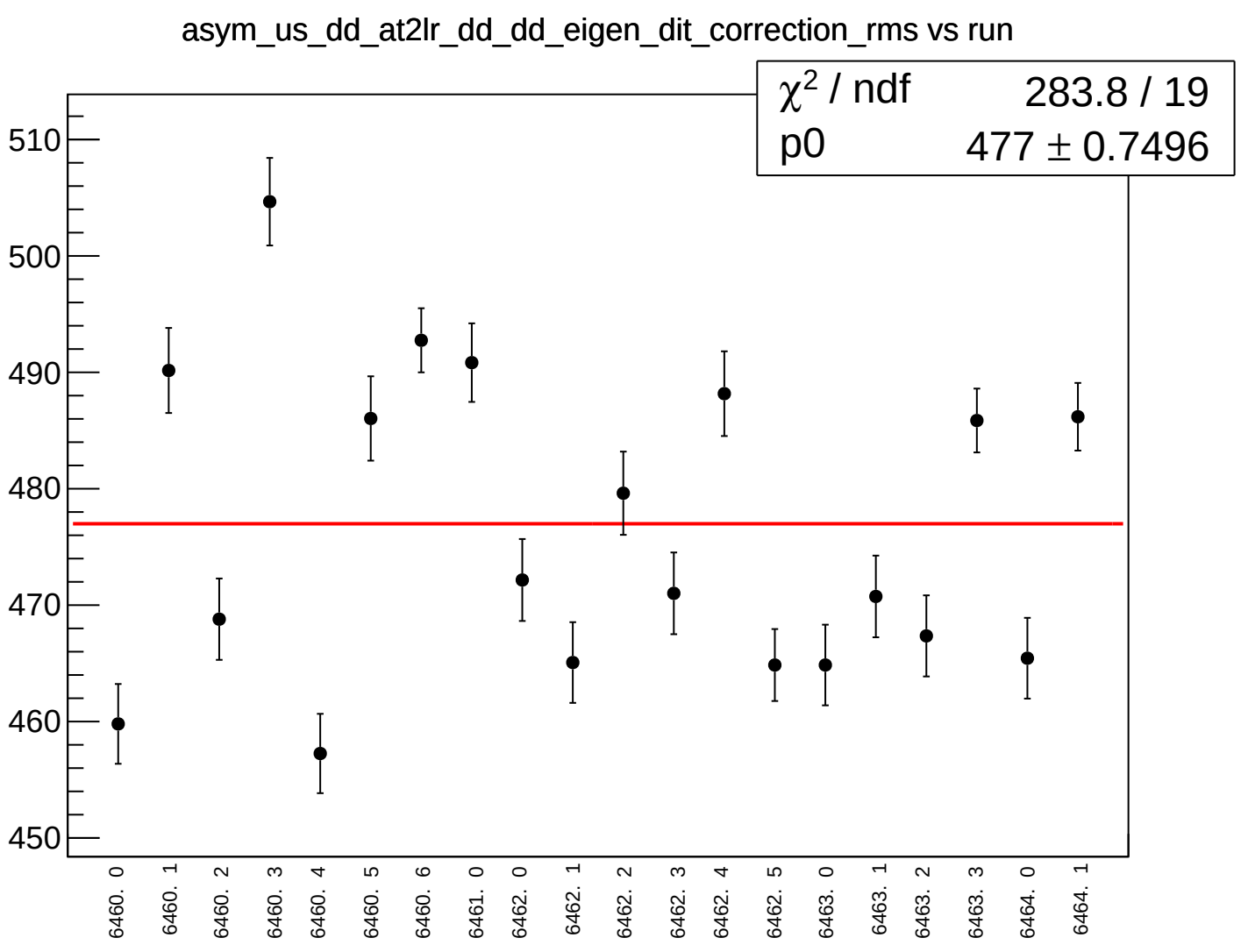

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 7.116 / 19
p0 −741.8 ± 1060
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 20.61
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.0239
Std Dev 0.596
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

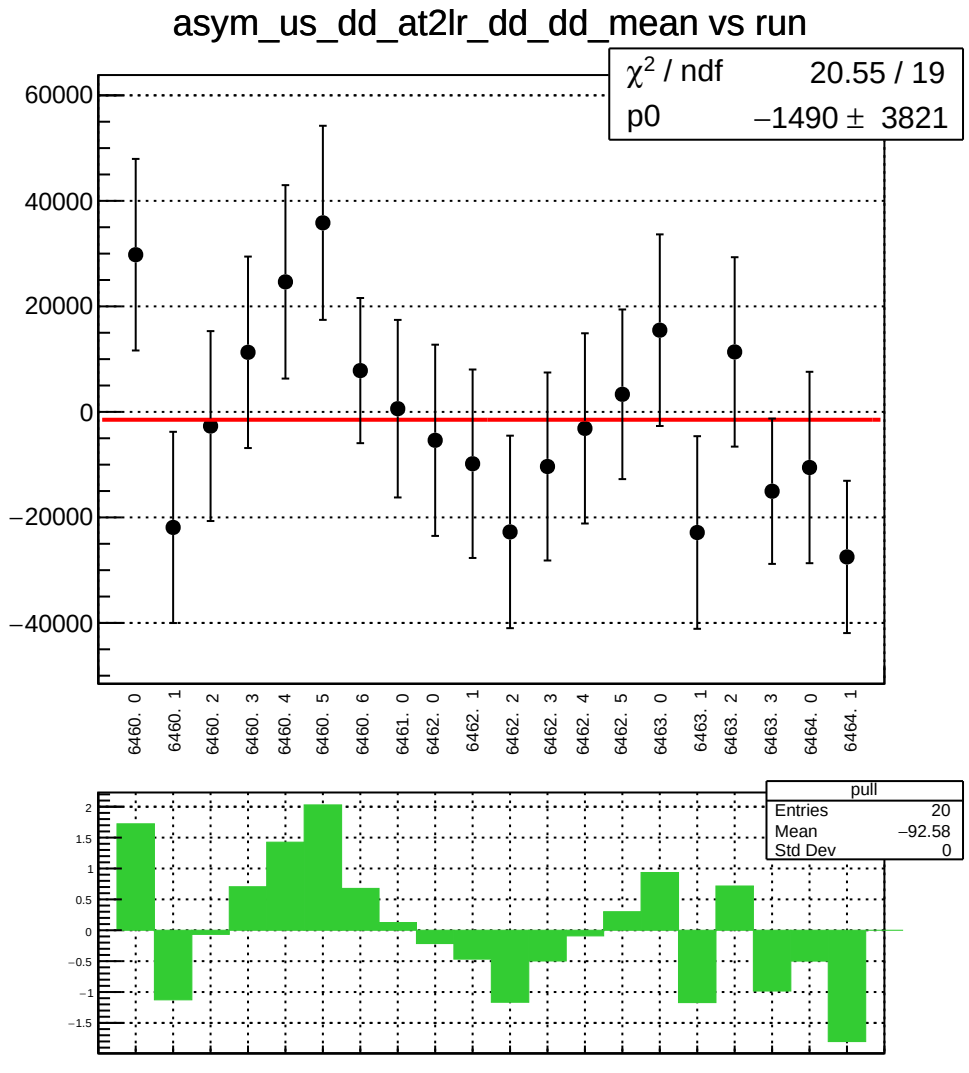

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 283.8 / 19
p0 477 ± 0.7496
510
500
490
480
470
460
450
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

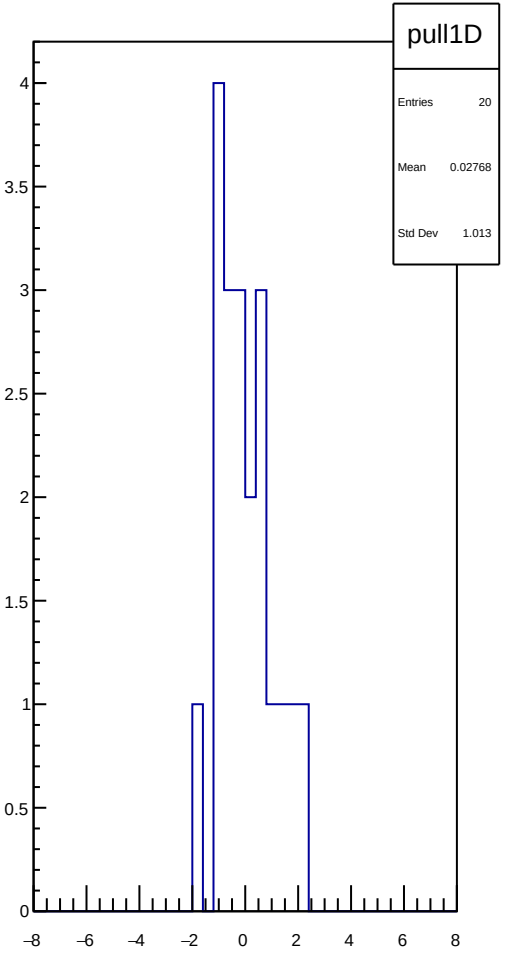

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 22.68 / 19
p0 −2242 ± 3690
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −70.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.03593
Std Dev 1.064
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

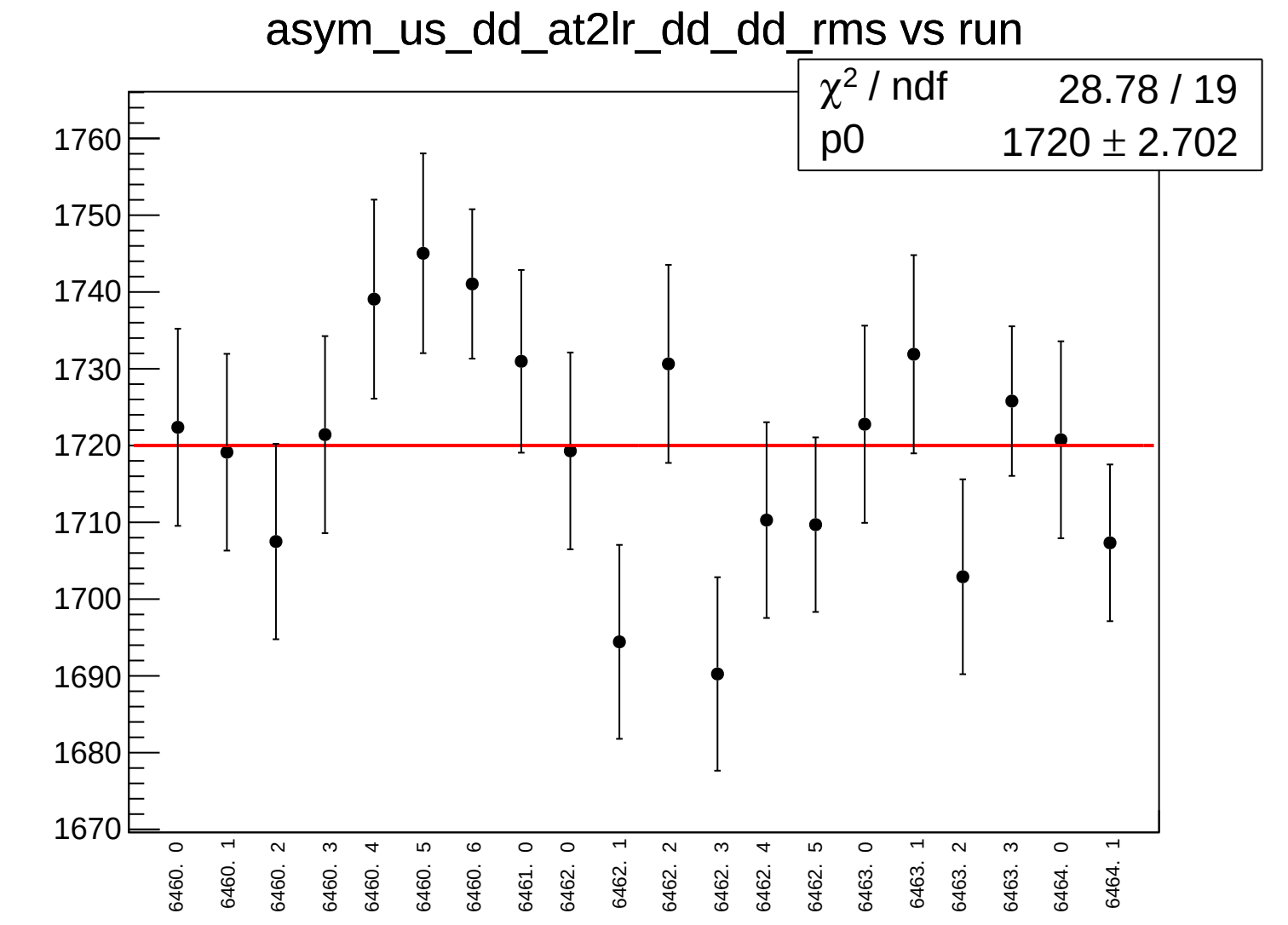

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 19.44 / 19
p0 1661 ± 2.609
1700
1690
1680
1670
1660
1650
1640
1630
1620
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 7.116 / 19
p0 −741.8 ± 1060
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 20.61
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.0239
Std Dev 0.596
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 283.8 / 19
p0 477 ± 0.7496
510
500
490
480
470
460
450
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 20.55 / 19
p0 −1490 ± 3821
60000
40000
20000
0
−20000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −92.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean 0.02768
Std Dev 1.013
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 28.78 / 19
p0 1720 ± 2.702
1760
1750
1740
1730
1720
1710
1700
1690
1680
1670
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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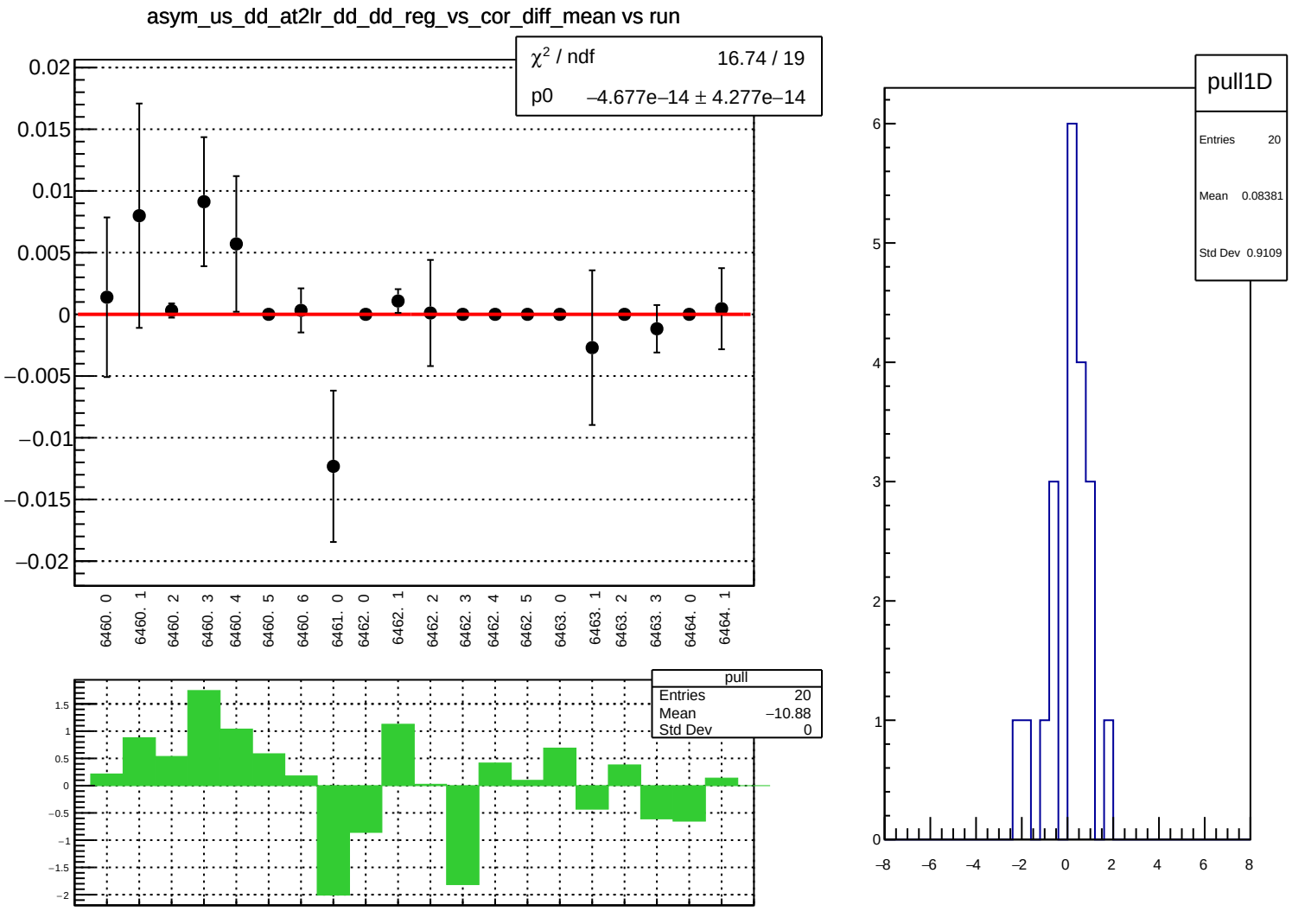
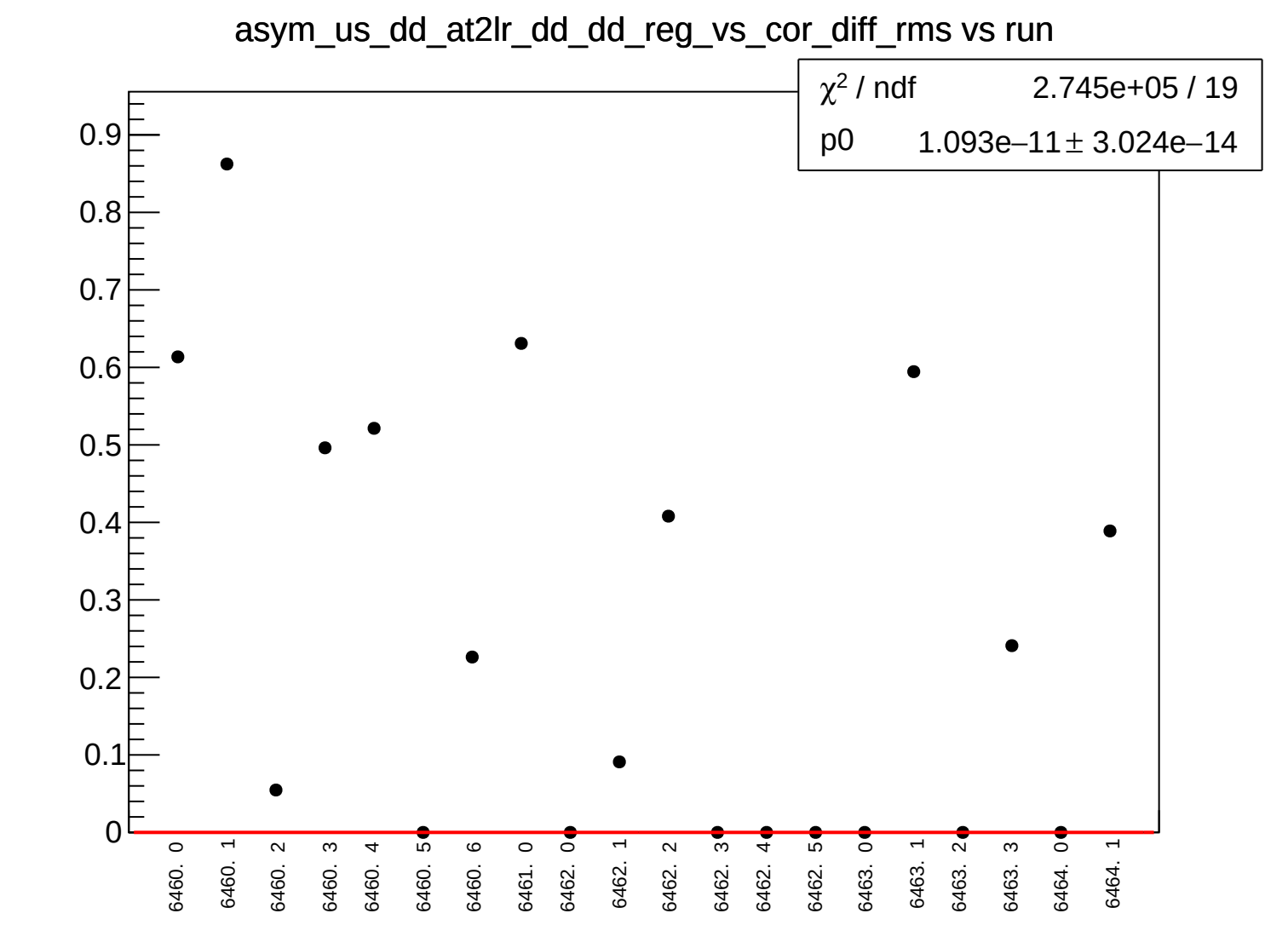
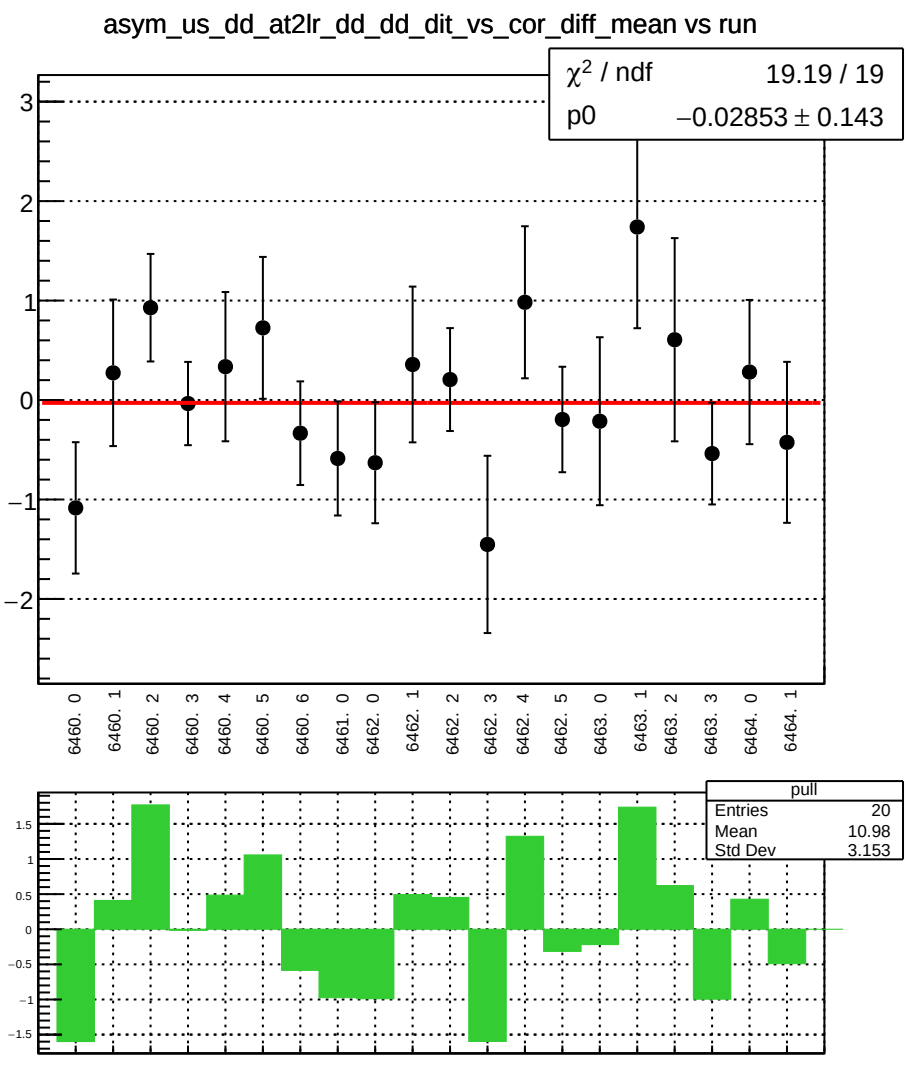
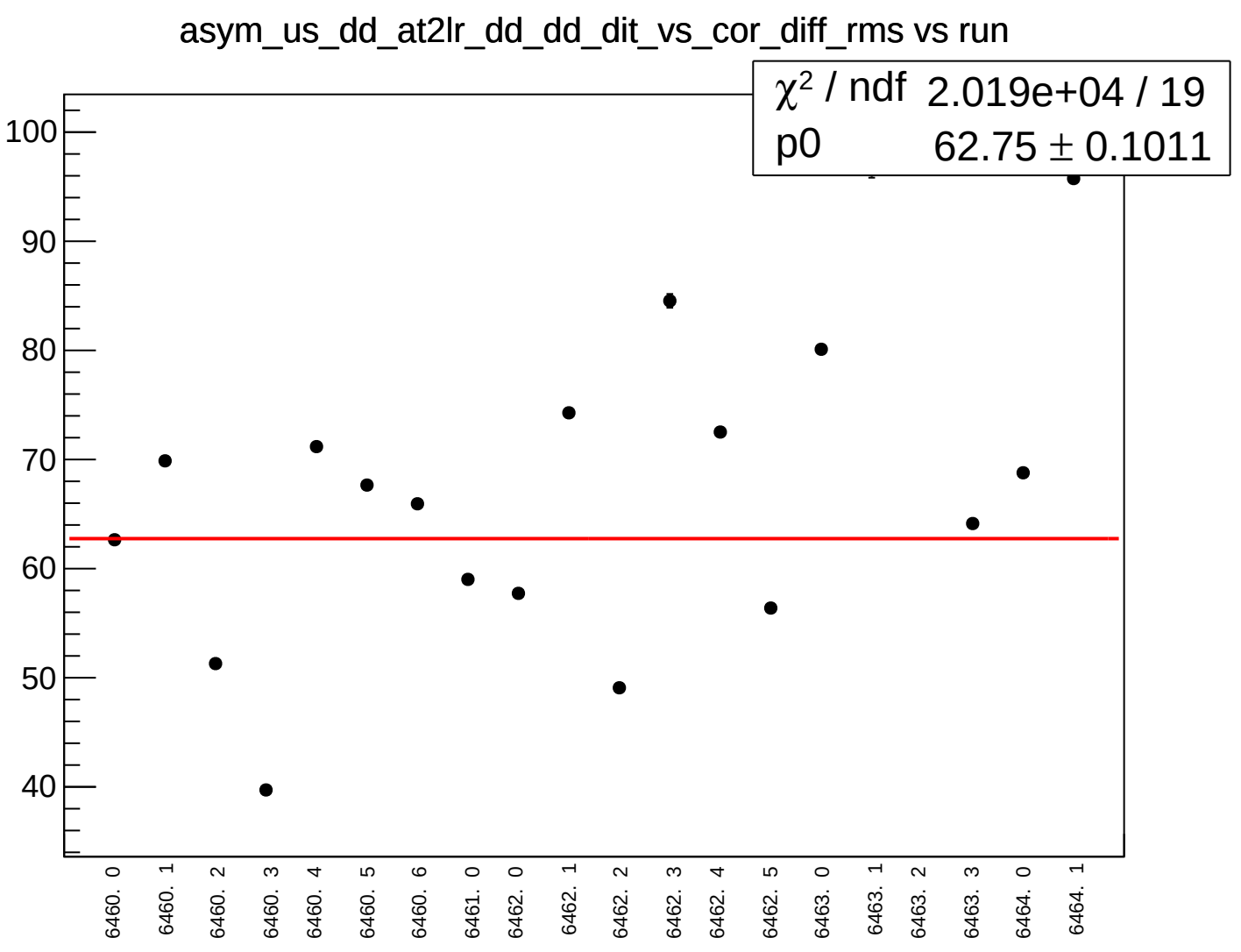
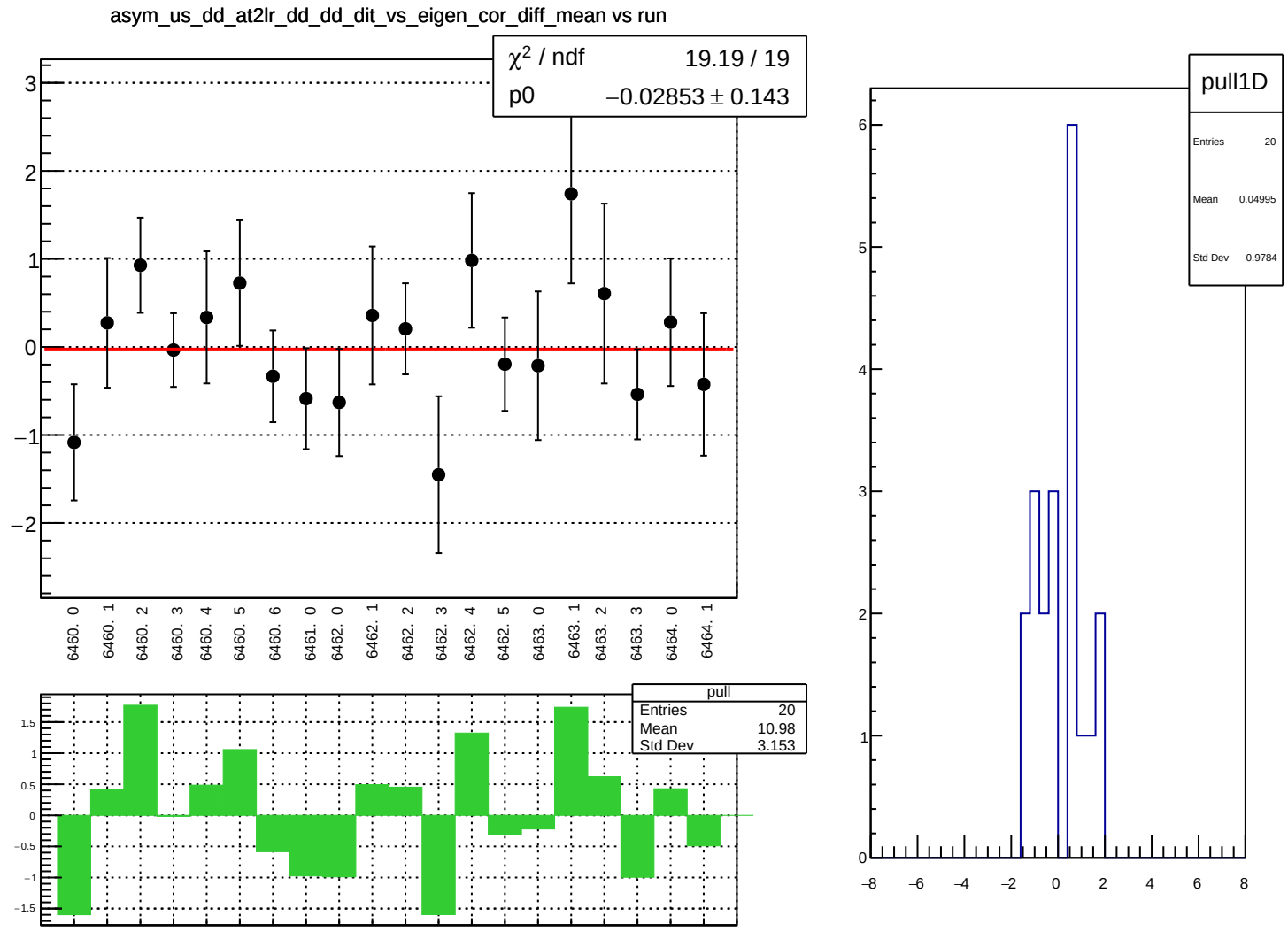
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

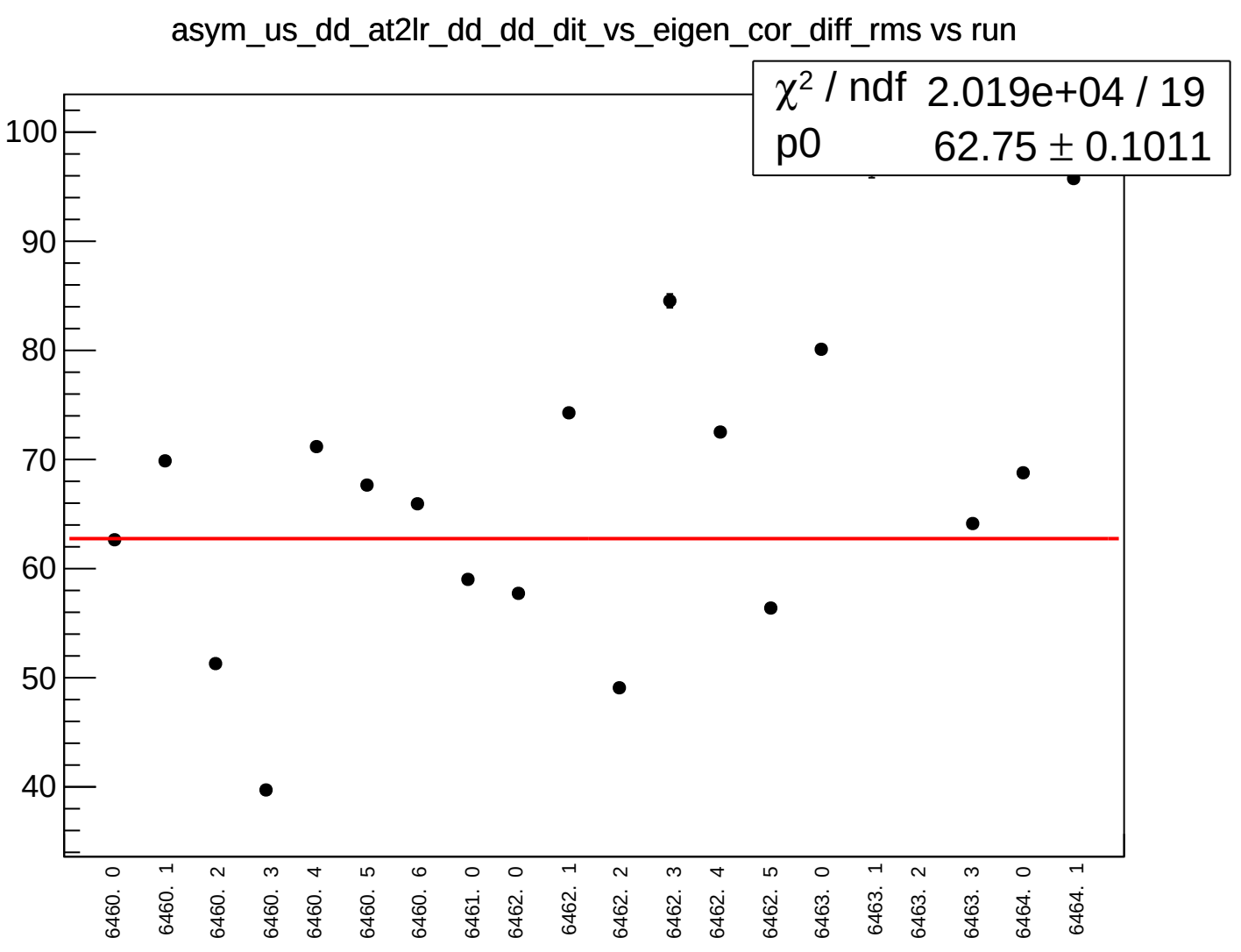

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 16.74 / 19
p0 −4.677e−14 ± 4.277e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −10.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.08381
Std Dev 0.9109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

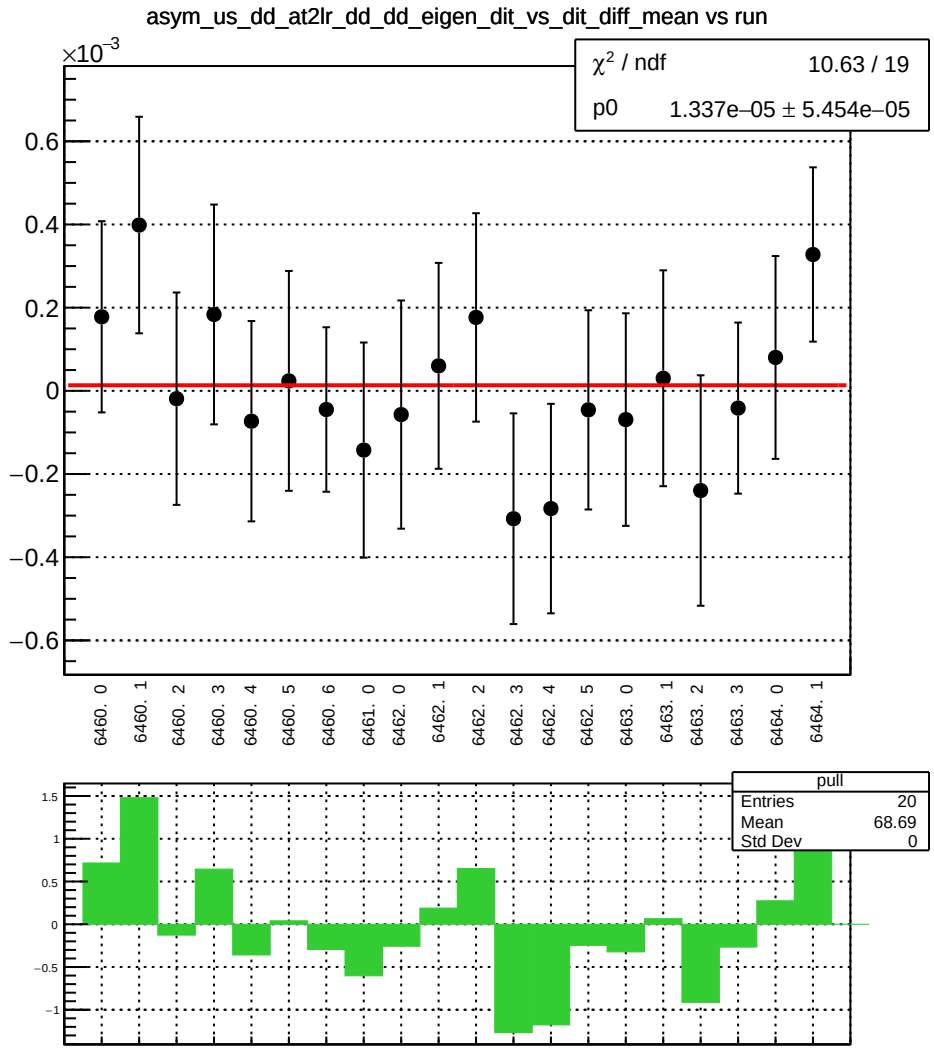

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.745e+05 / 19
p0 1.093e−11 ± 3.024e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

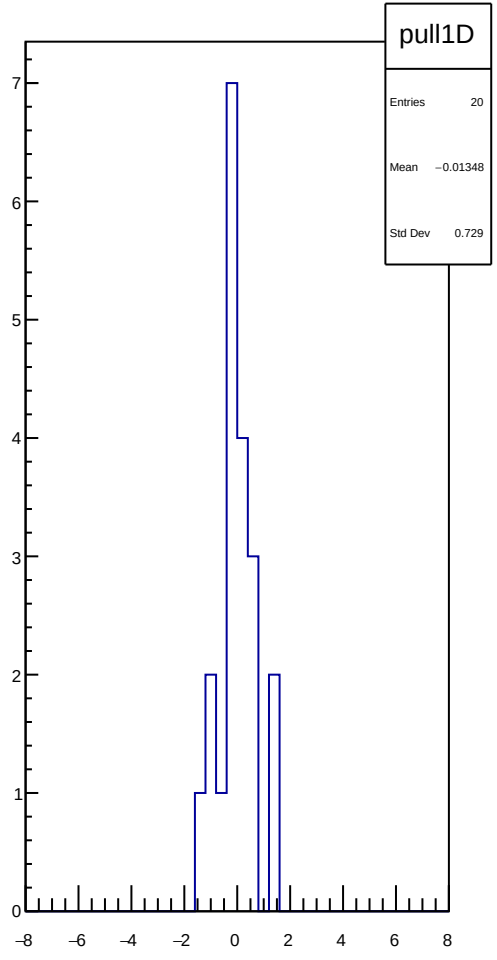

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 19.19 / 19
p0 −0.02853 ± 0.143
3
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10.98
Std Dev 3.153
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.04995
Std Dev 0.9784
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

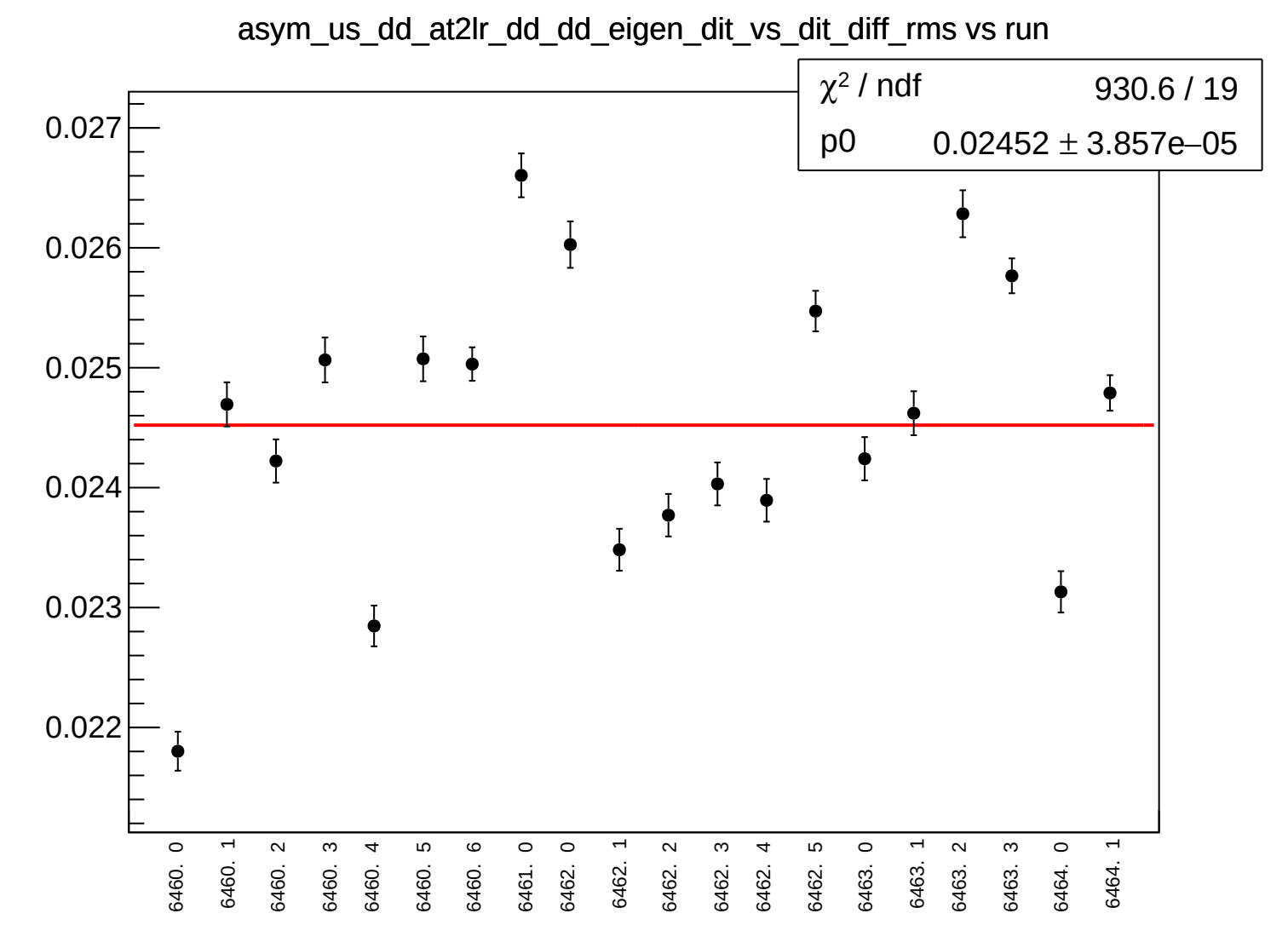

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.019e+04 / 19
p0 62.75 ± 0.1011
100
90
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

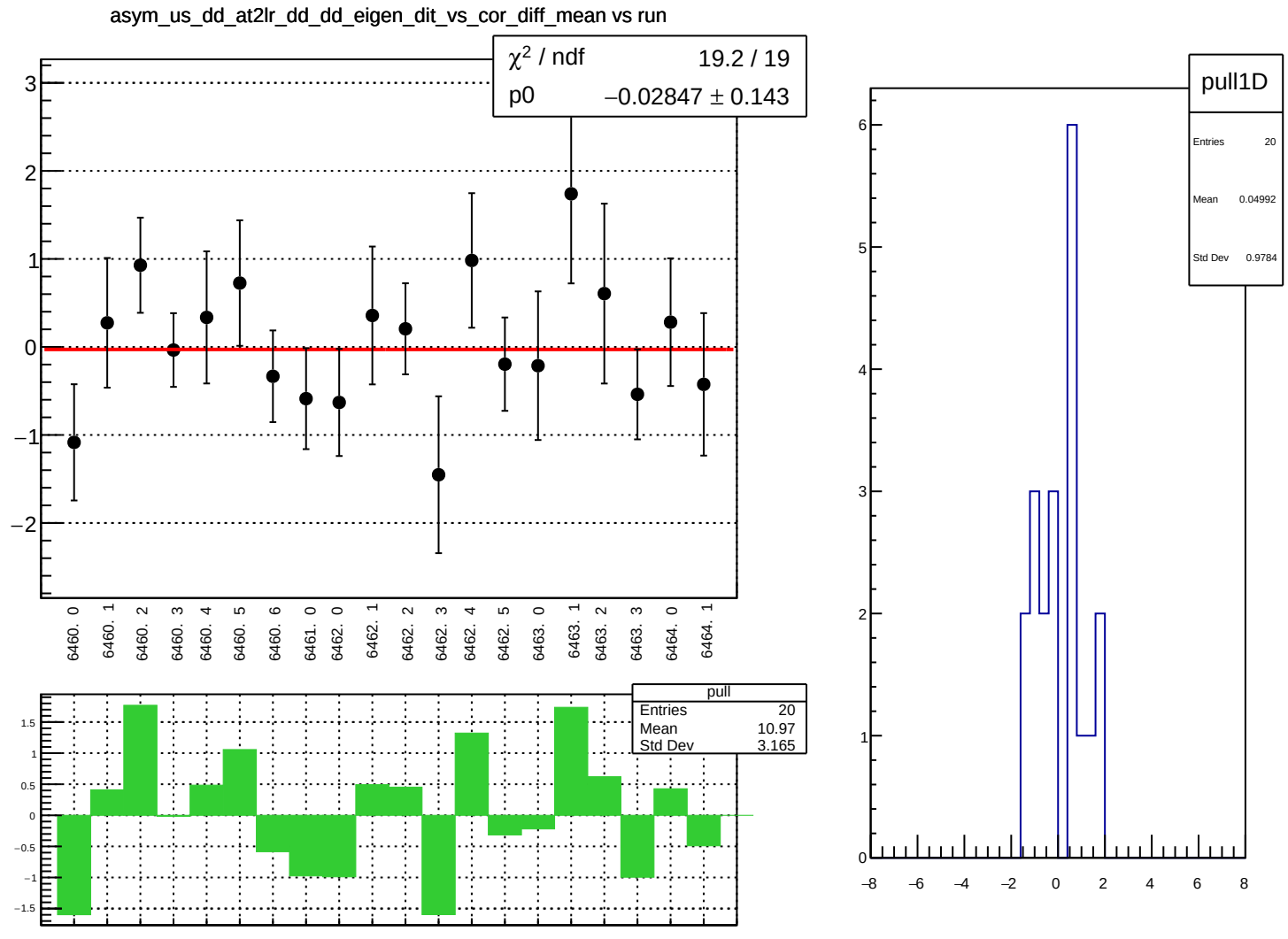

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.19 / 19
p0 −0.02853 ± 0.143
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10.98
Std Dev 3.153
pull1D
Entries 20
Mean 0.04995
Std Dev 0.9784

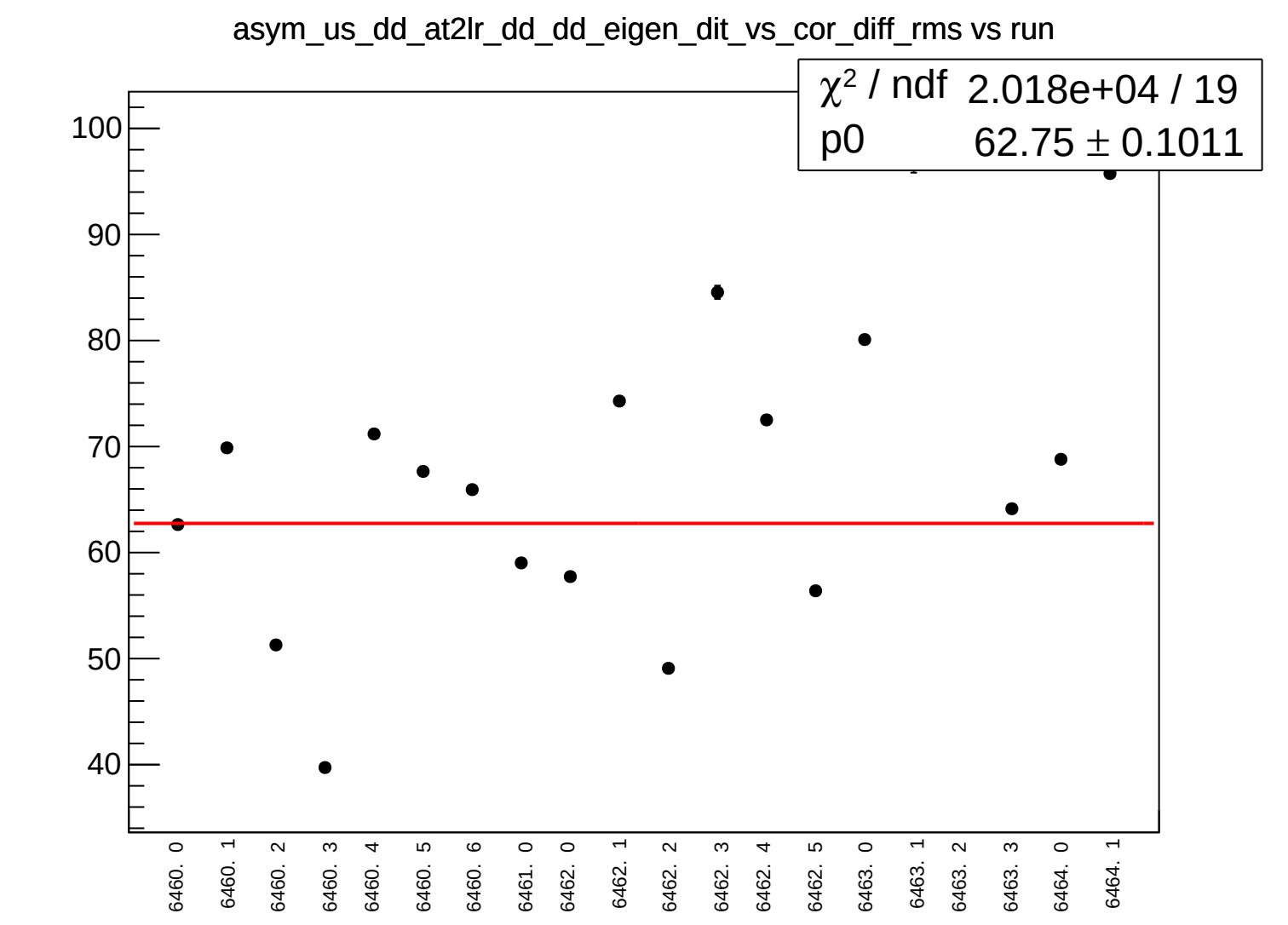

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.019e+04 / 19
p0 62.75 ± 0.1011
100
90
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

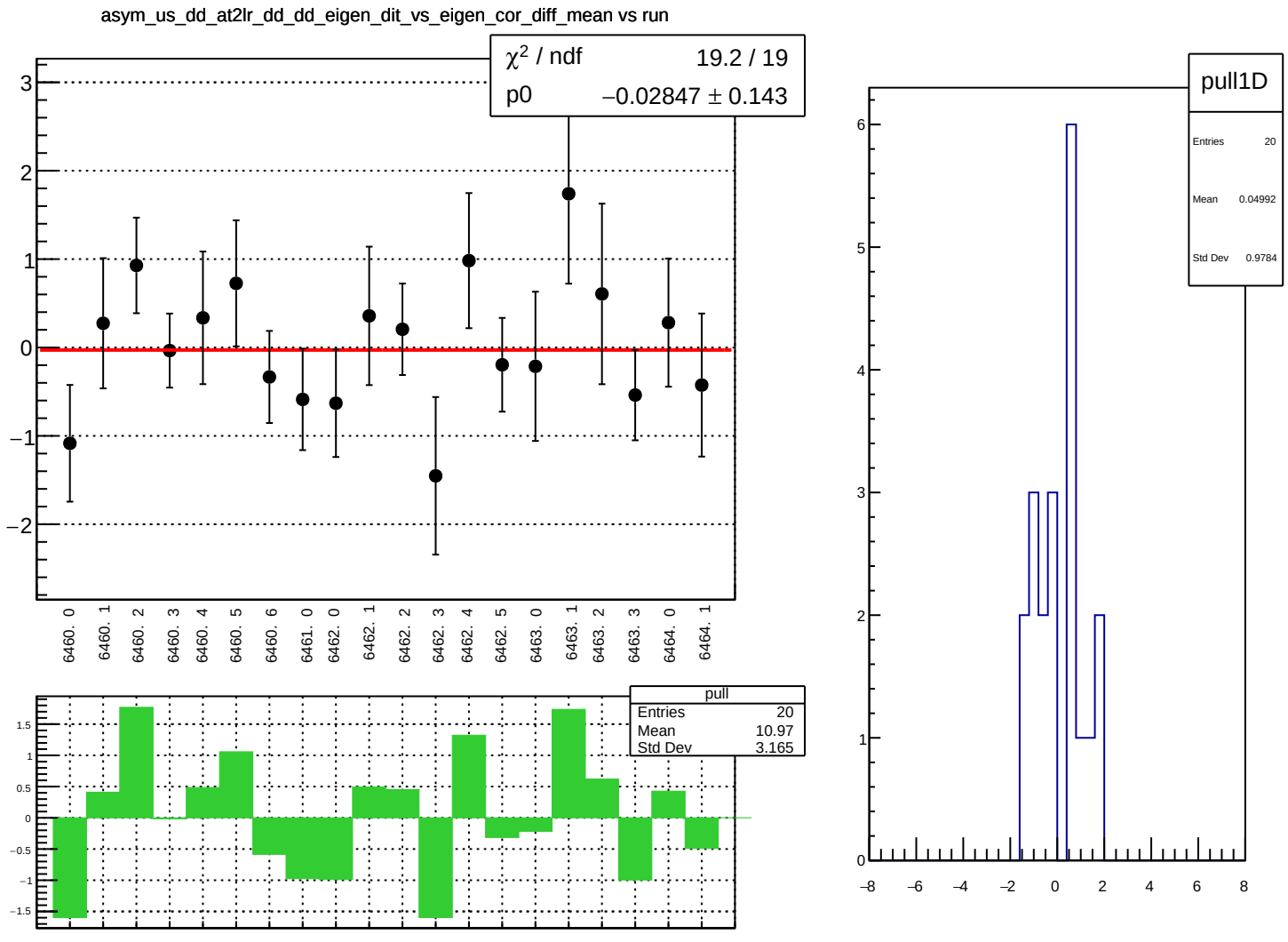

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 10.63 / 19
p0 1.337e−05 ± 5.454e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 68.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1

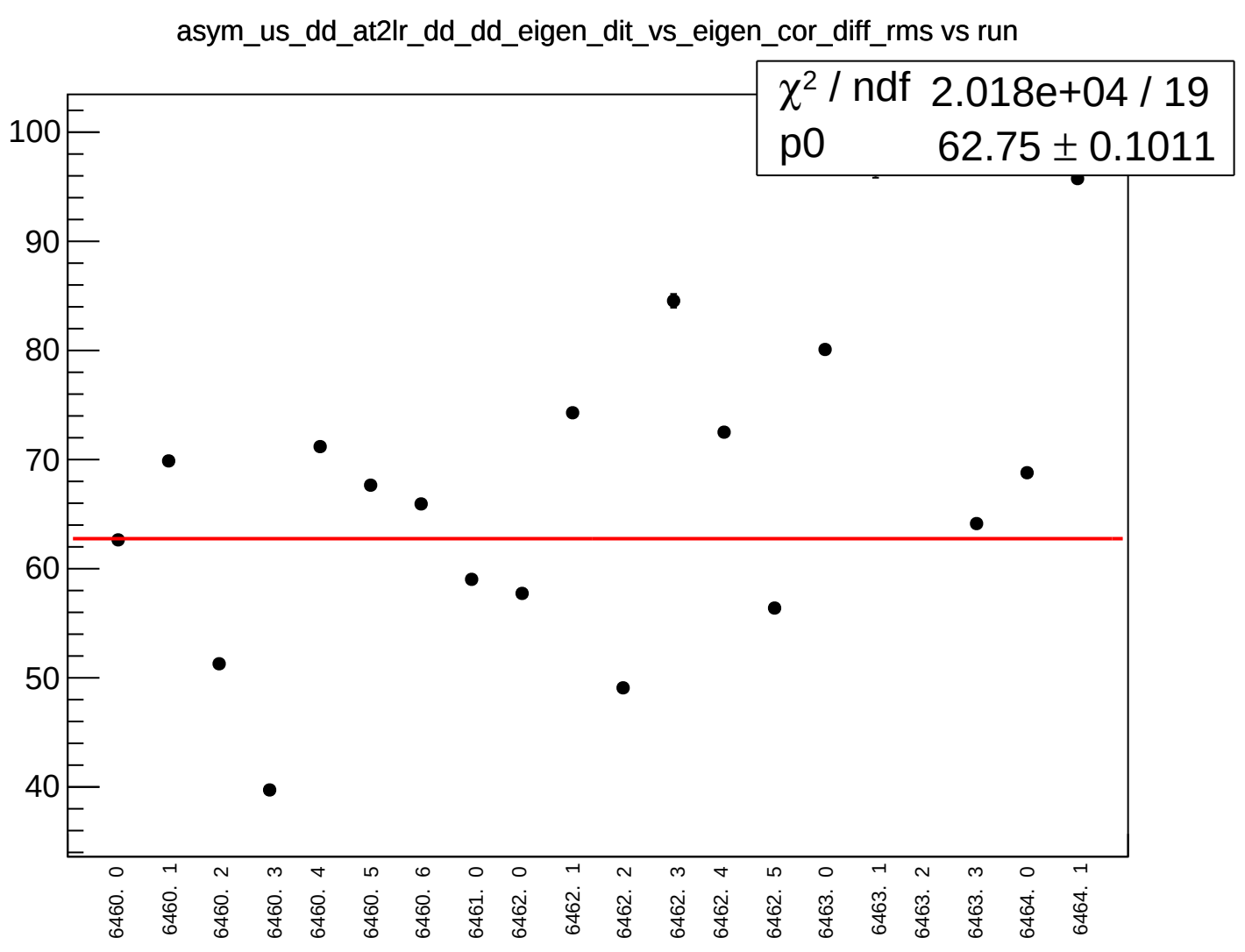

pull1D
Entries 20
Mean −0.01348
Std Dev 0.729
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

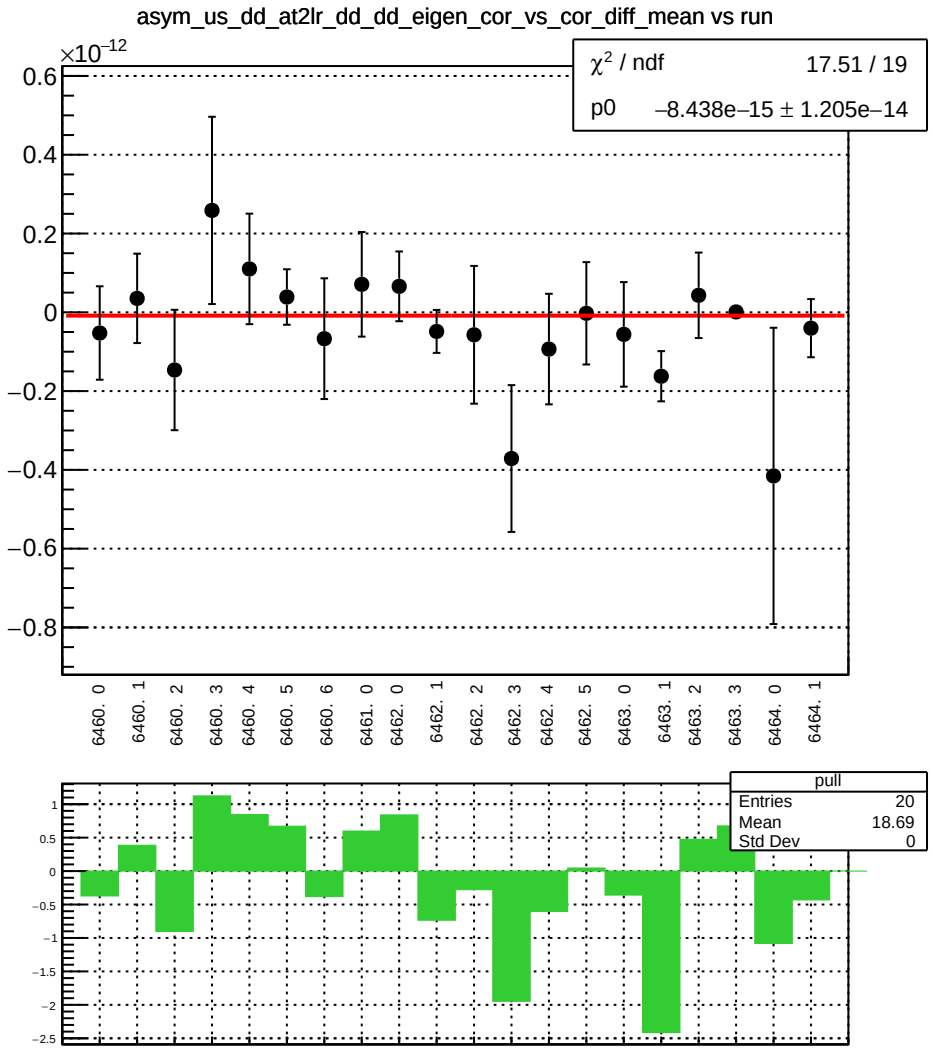

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 930.6 / 19
p0 0.02452 ± 3.857e−05
0.027
0.026
0.025
0.024
0.023
0.022
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

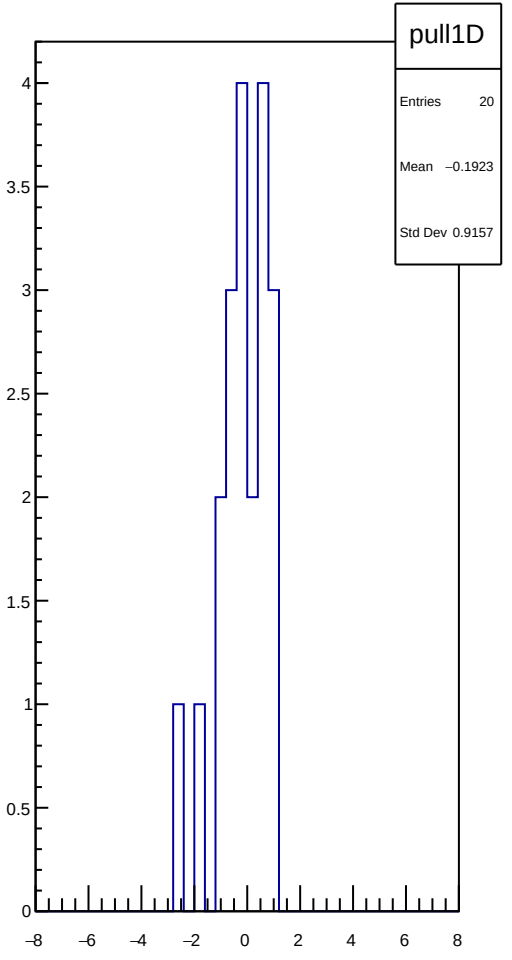

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.2 / 19
p0 −0.02847 ± 0.143
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10.97
Std Dev 3.165
pull1D
Entries 20
Mean 0.04992
Std Dev 0.9784

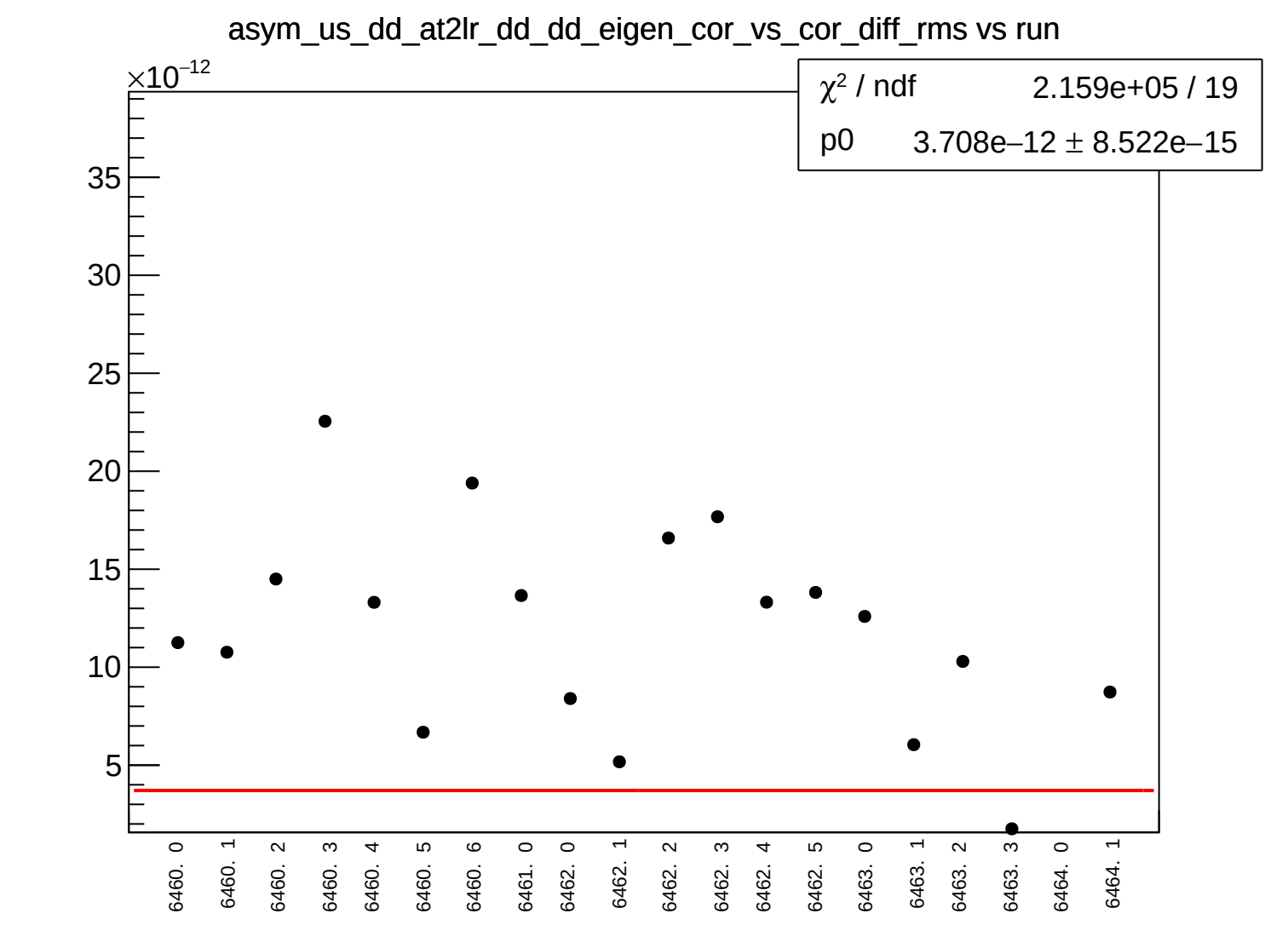

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.018e+04 / 19
p0 62.75 ± 0.1011
100
90
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

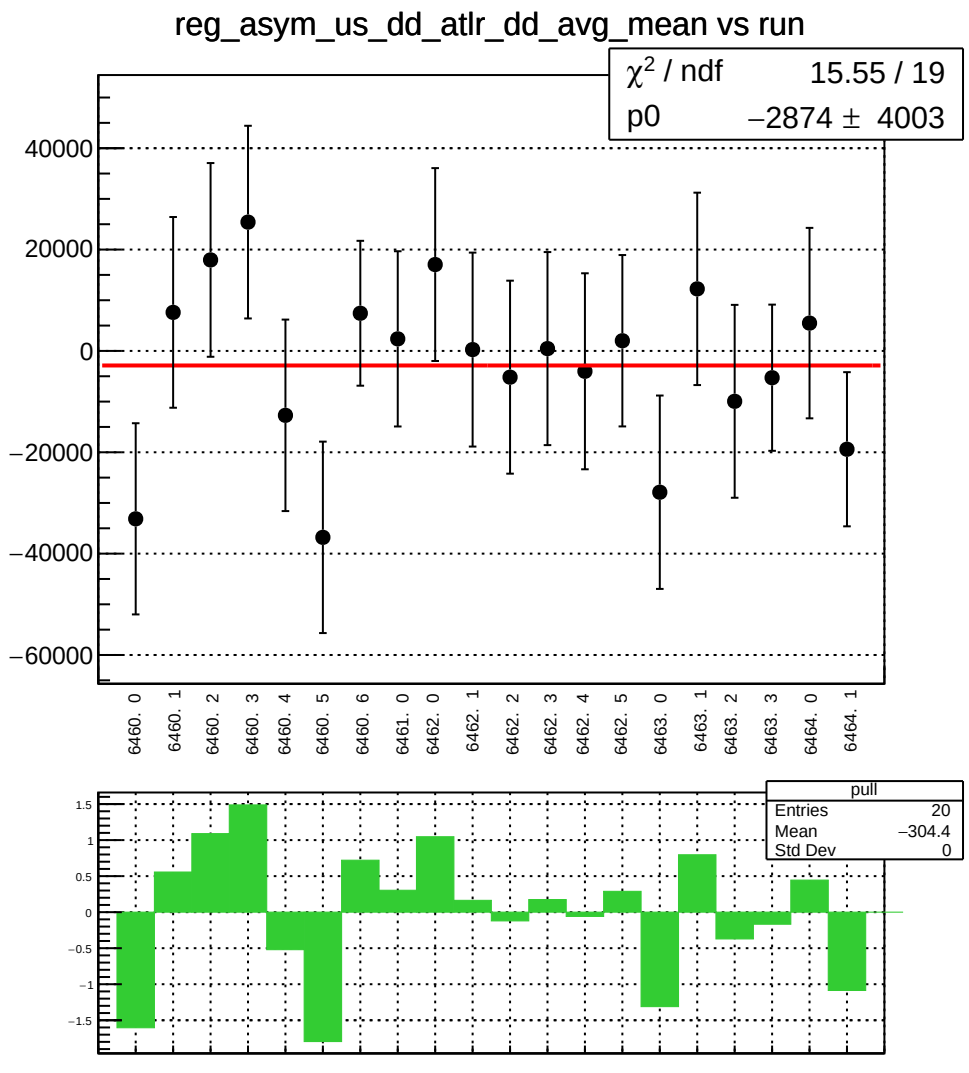

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.2 / 19
p0 −0.02847 ± 0.143
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10.97
Std Dev 3.165
pull1D
Entries 20
Mean 0.04992
Std Dev 0.9784

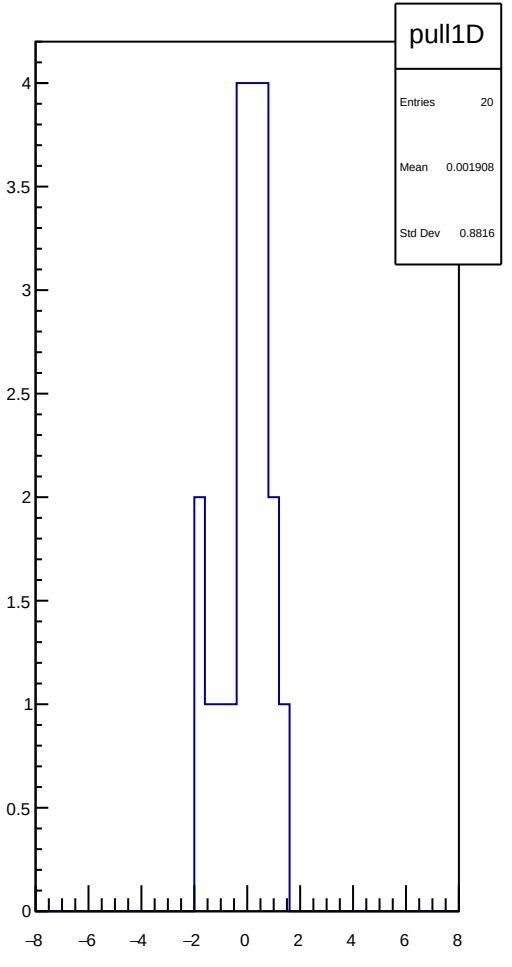

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.018e+04 / 19
p0 62.75 ± 0.1011
100
90
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

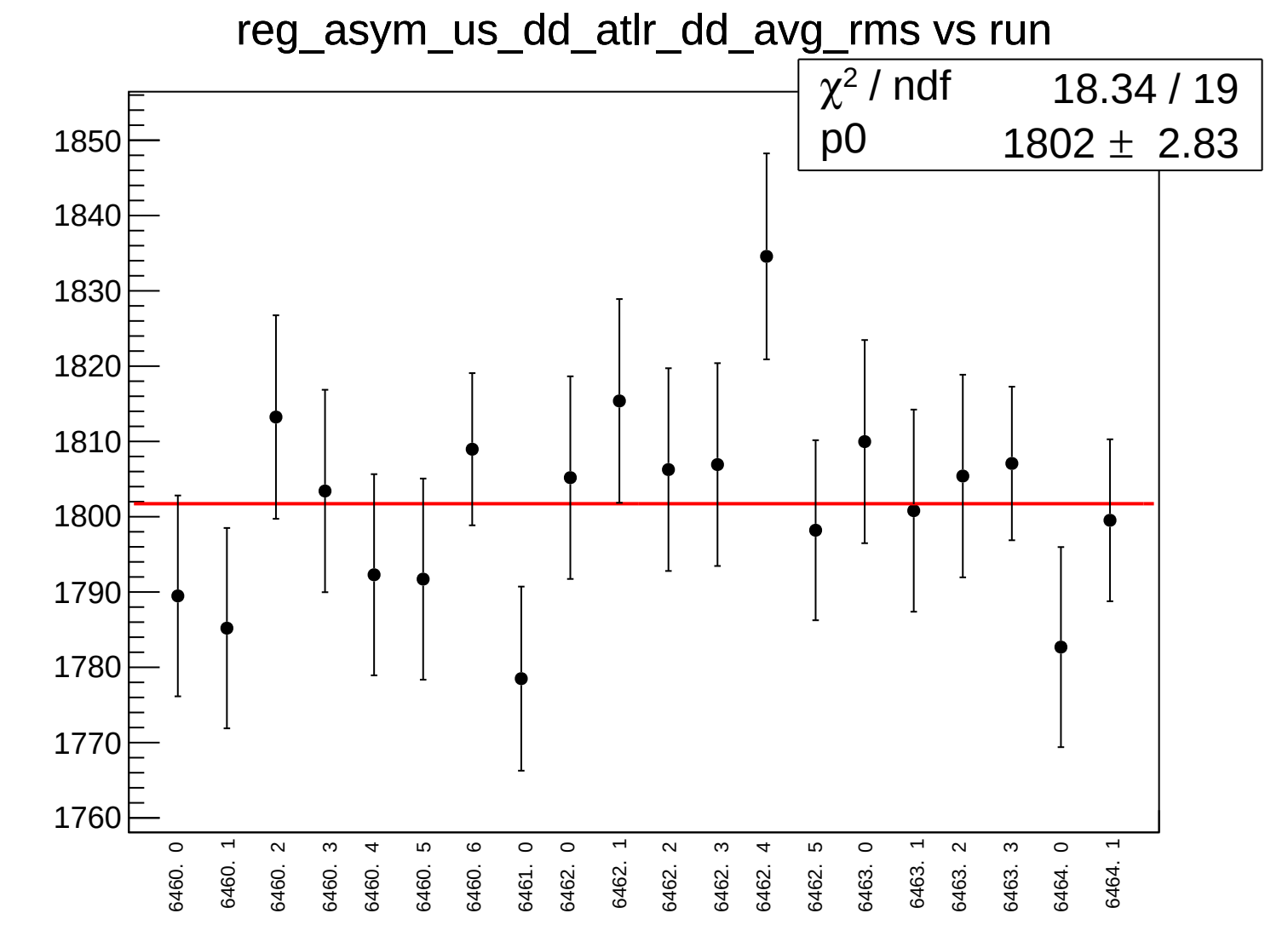

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.51 / 19
p0 −8.438e−15 ± 1.205e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.69
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

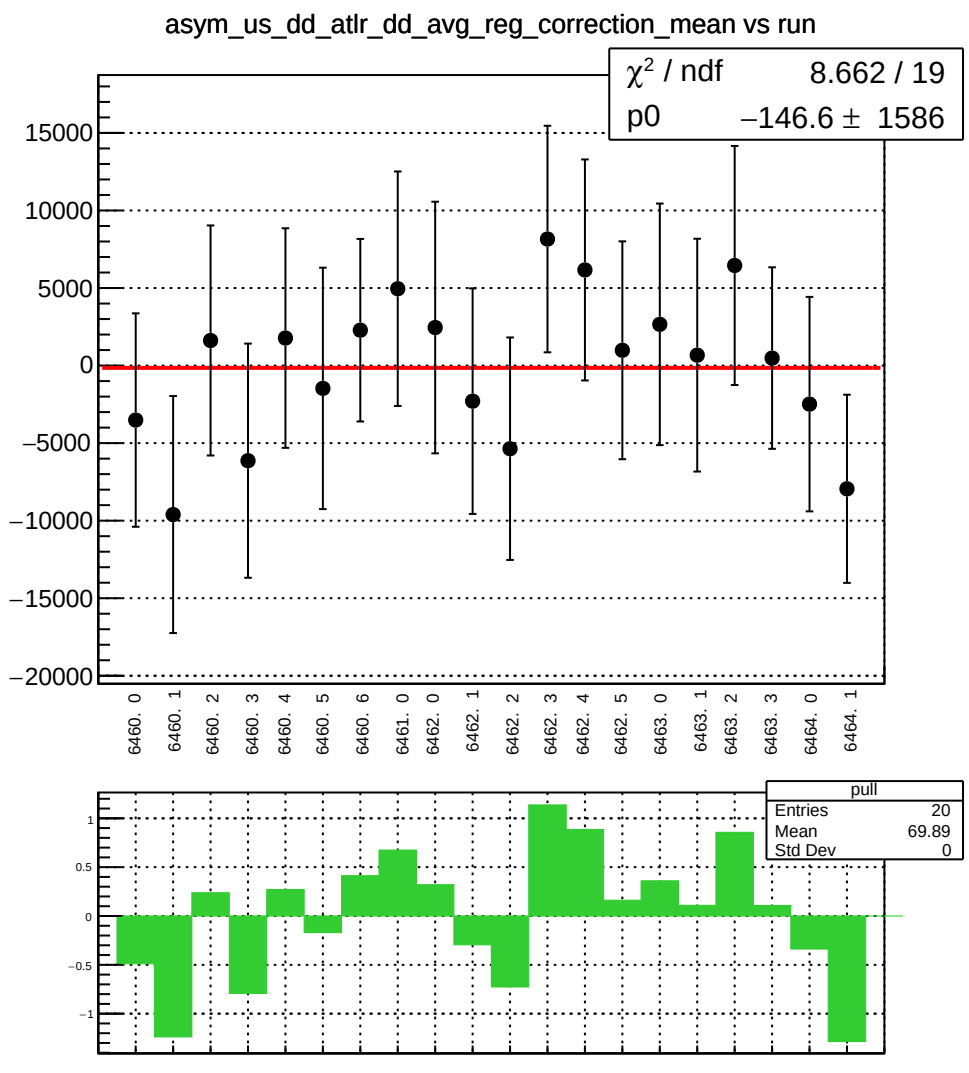

pull1D
Entries 20
Mean −0.1923
Std Dev 0.9157
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

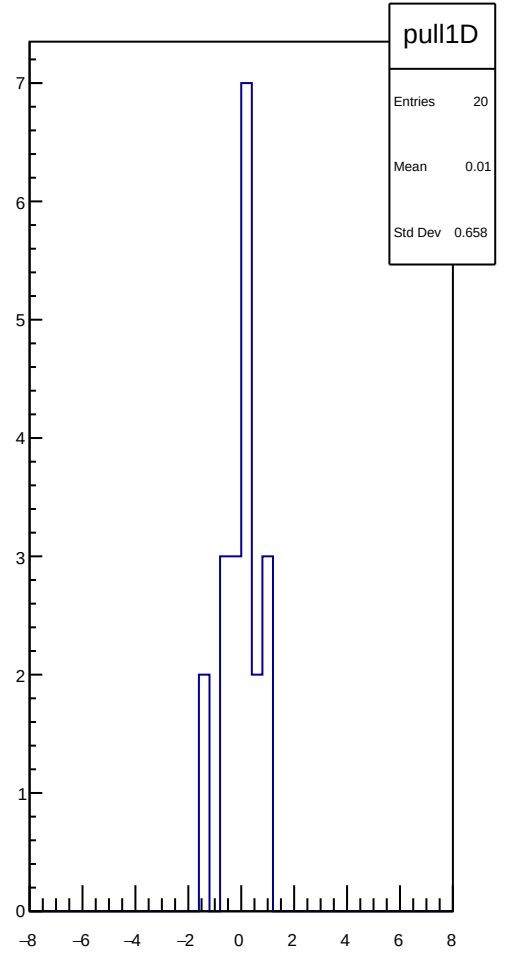

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.159e+05 / 19
p0 3.708e−12 ± 8.522e−15
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

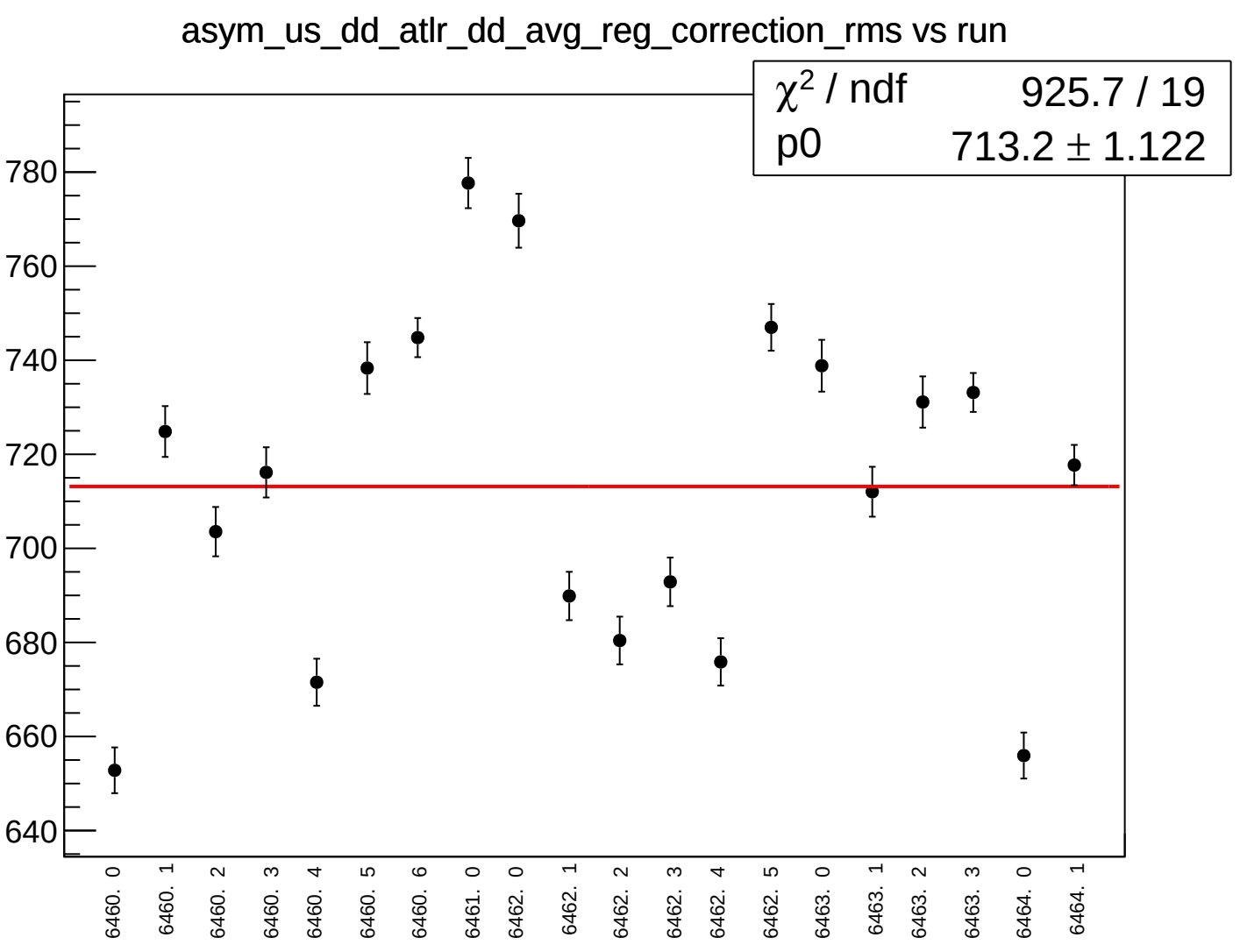

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 15.55 / 19
p0 −2874 ± 4003
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −304.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

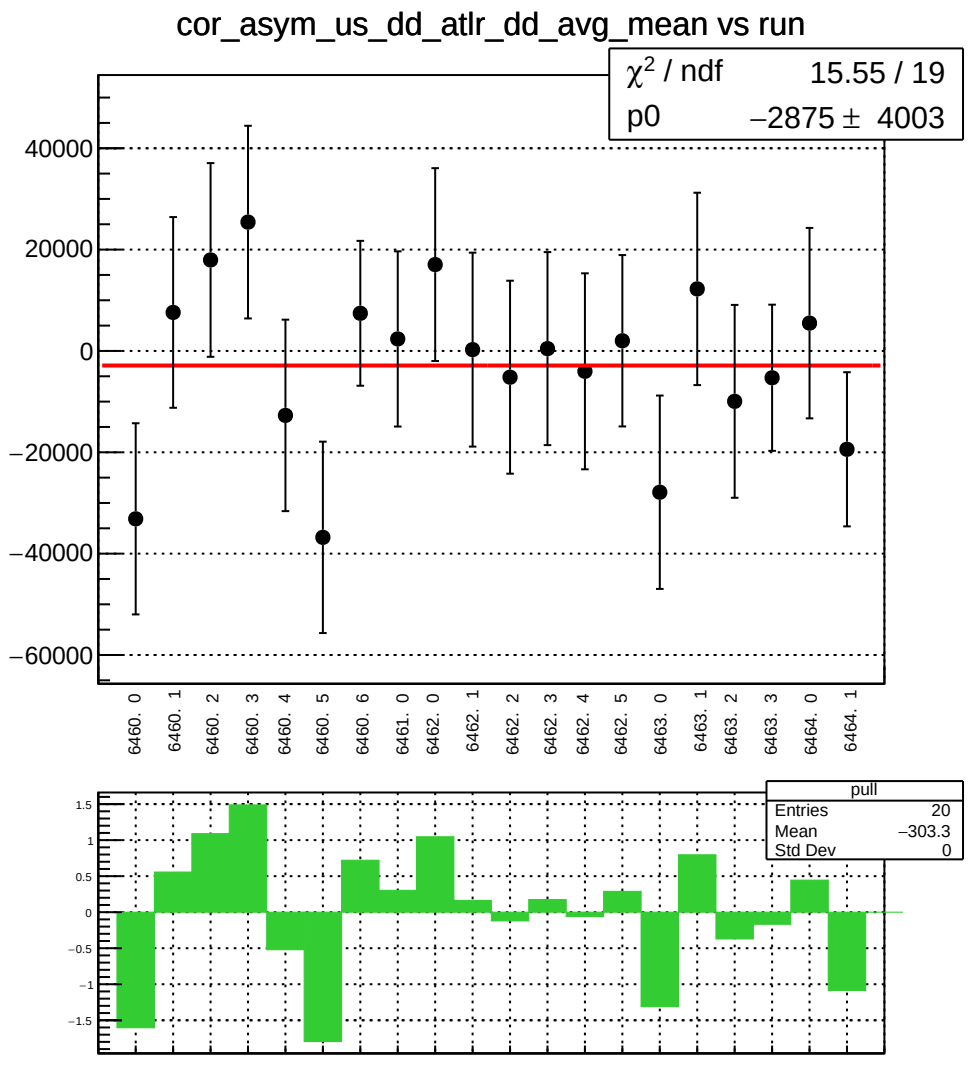

pull1D
Entries 20
Mean 0.001908
Std Dev 0.8816
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

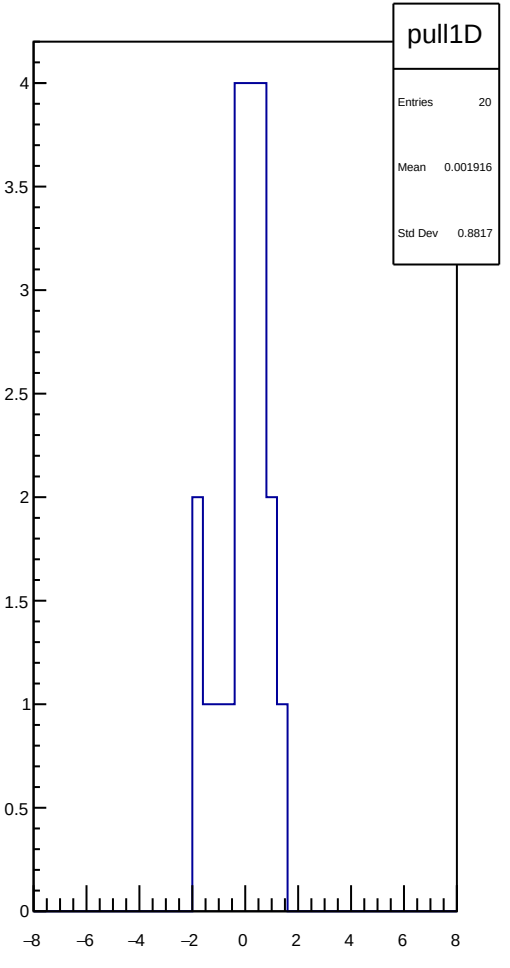

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 18.34 / 19
p0 1802 ± 2.83
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

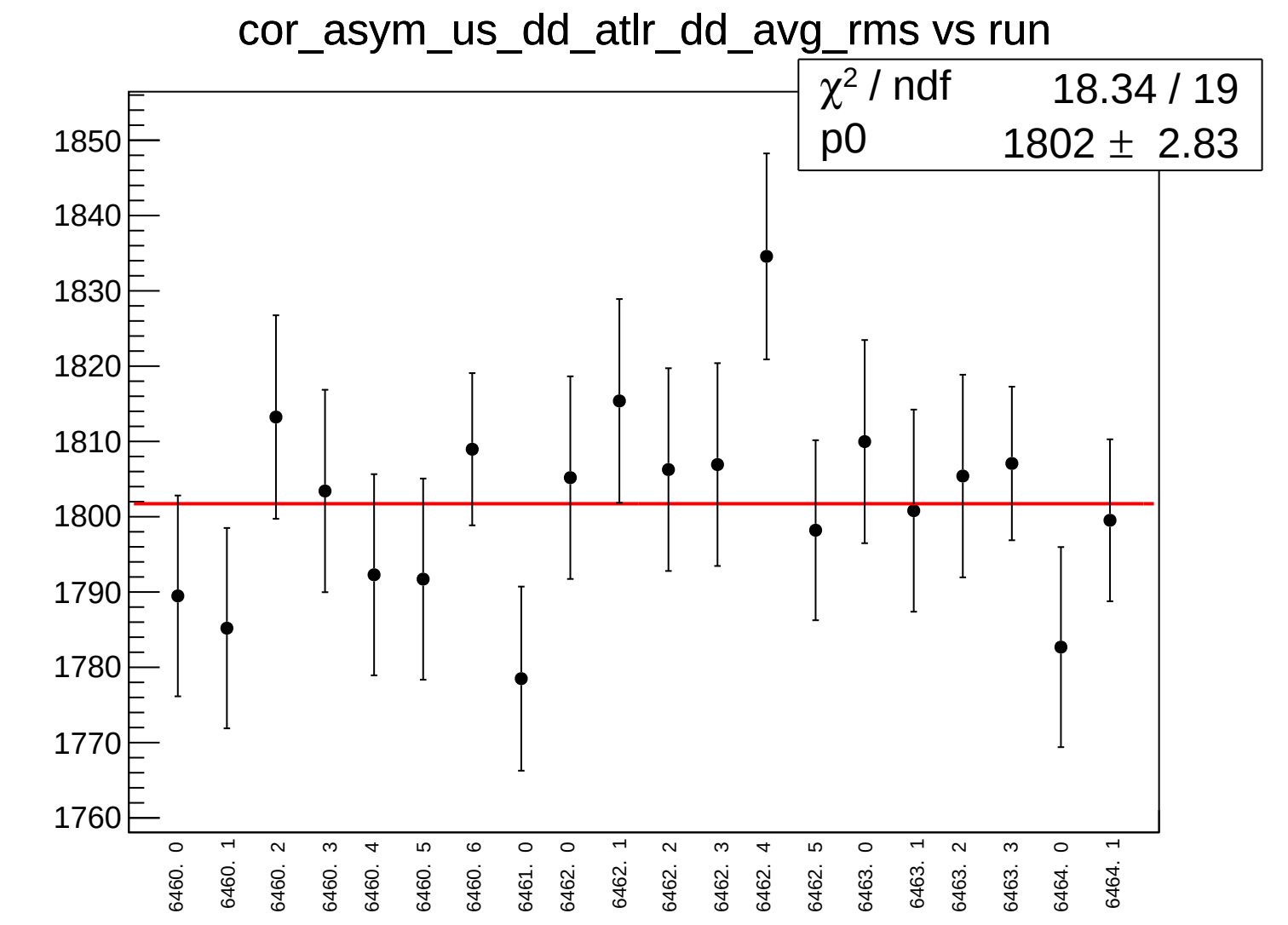

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 8.662 / 19
p0 −146.6 ± 1586
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.89
Std Dev 0
1
0.5
0
−0.5
−1

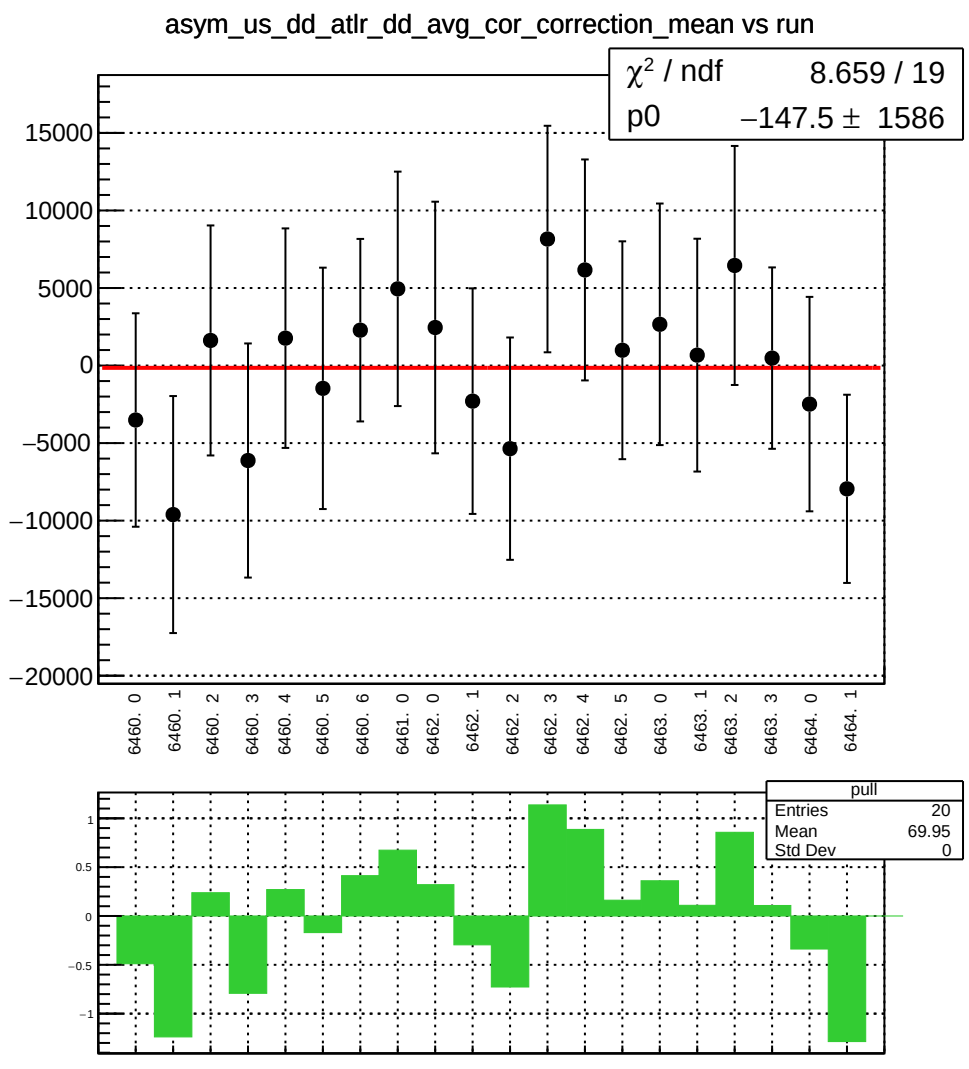

pull1D
Entries 20
Mean 0.01
Std Dev 0.658
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

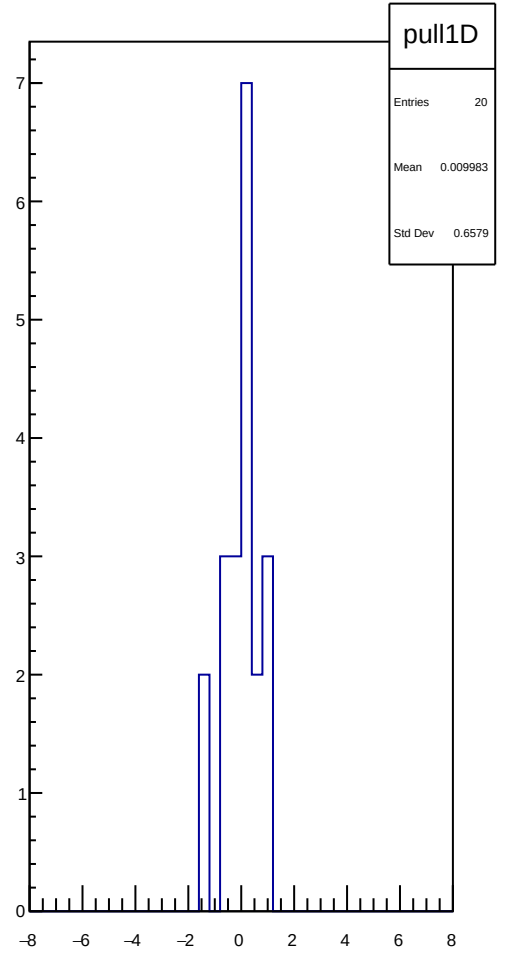

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 925.7 / 19
p0 713.2 ± 1.122
780
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

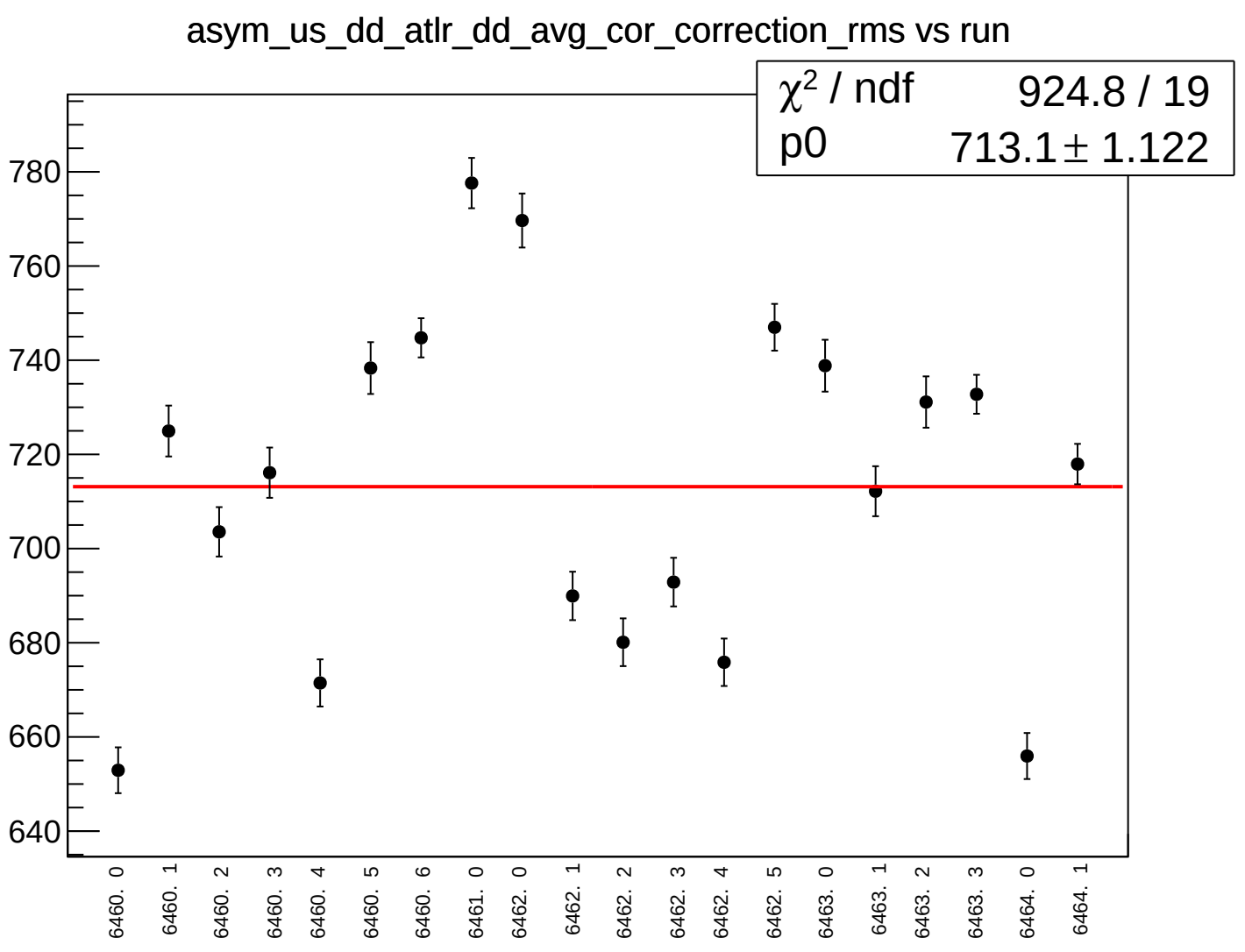

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 15.55 / 19
p0 −2875 ± 4003
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −303.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

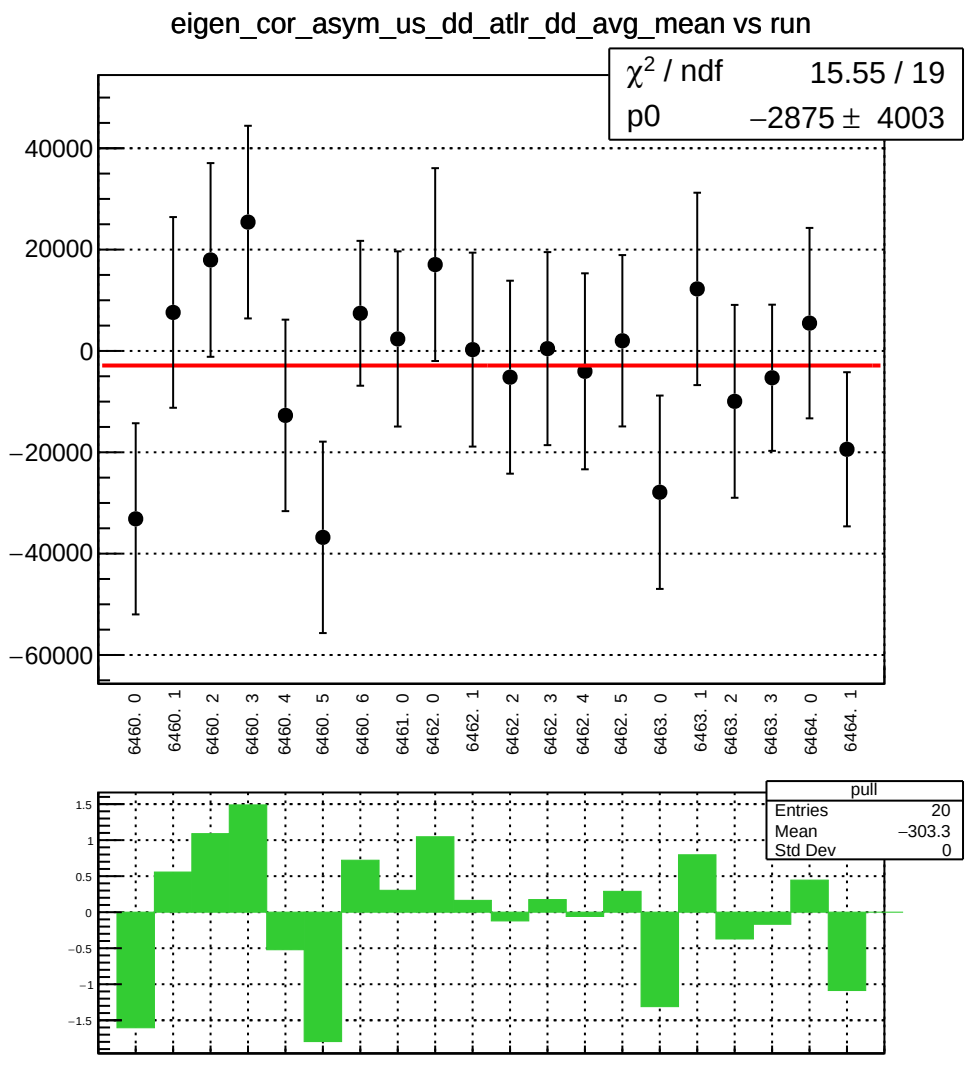

pull1D
Entries 20
Mean 0.001916
Std Dev 0.8817
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

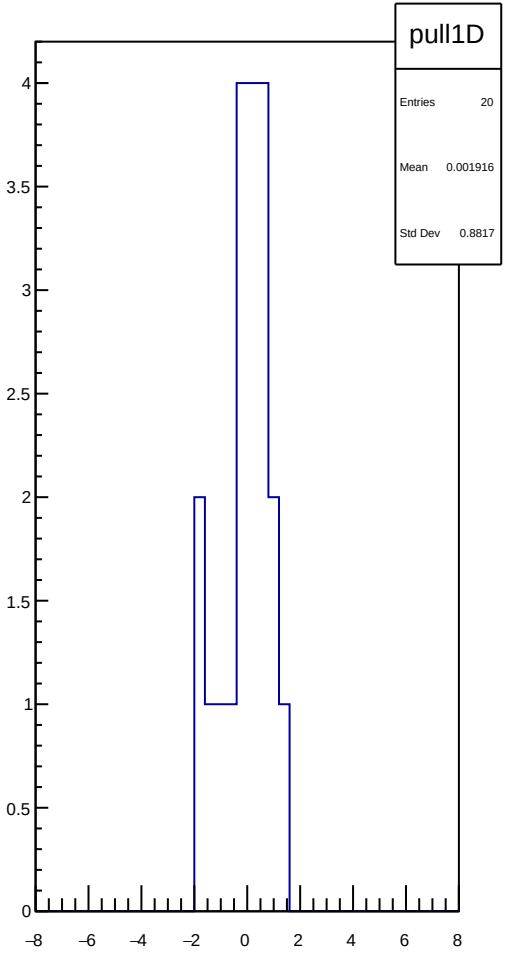

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 18.34 / 19
p0 1802 ± 2.83
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

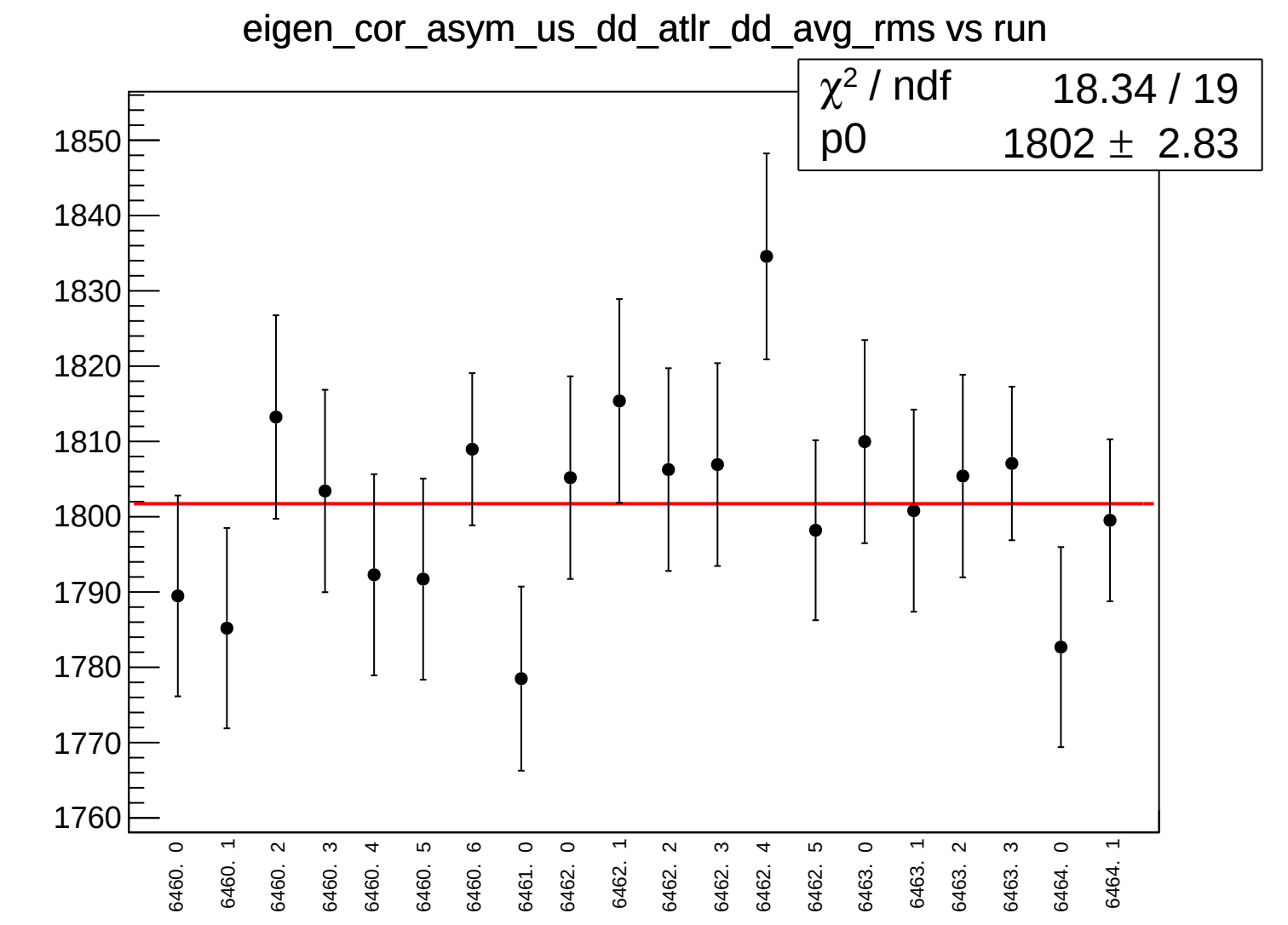

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 8.659 / 19
p0 −147.5 ± 1586
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.95
Std Dev 0
1
0.5
0
−0.5
−1

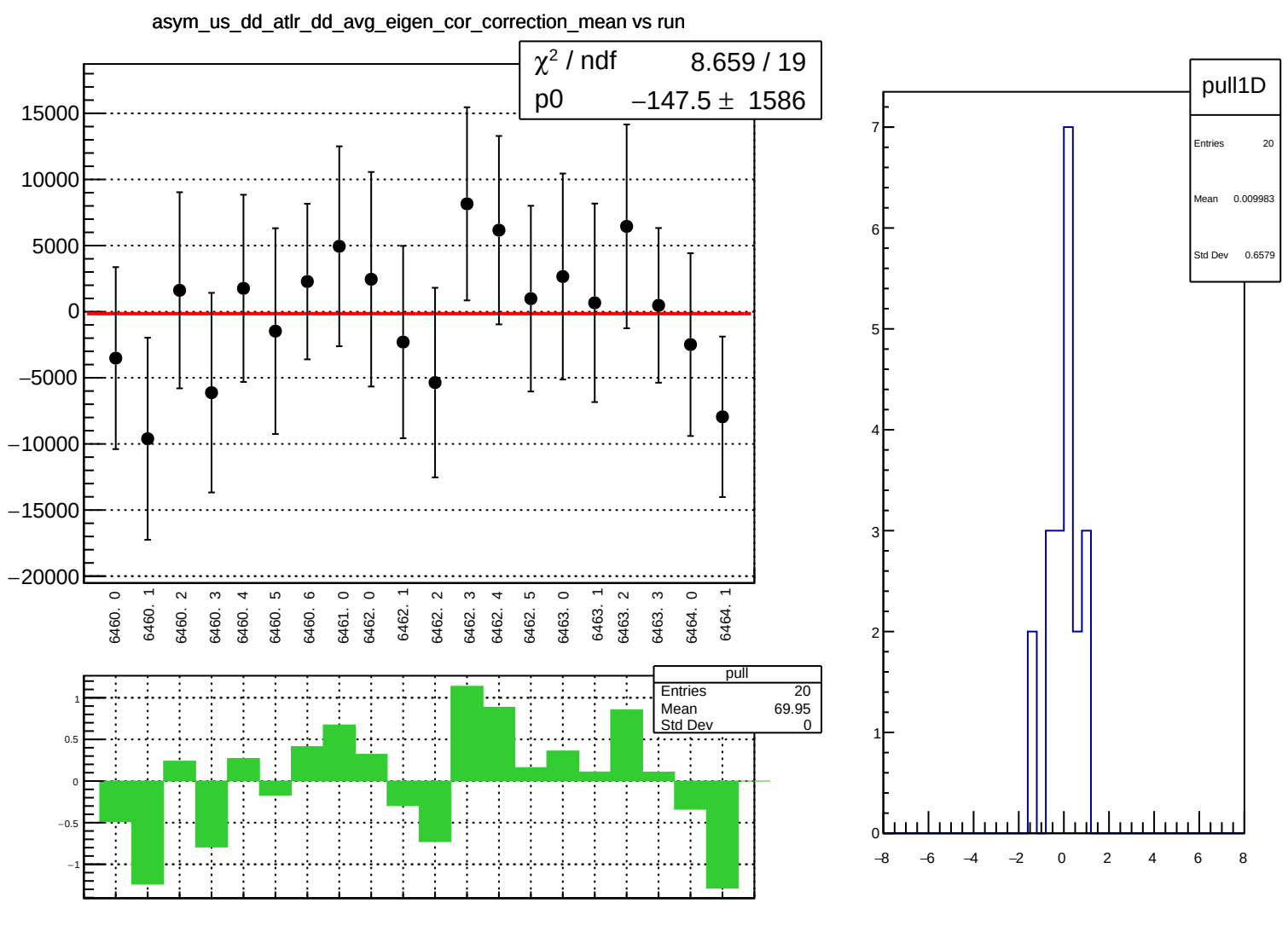

pull1D
Entries 20
Mean 0.009983
Std Dev 0.6579
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

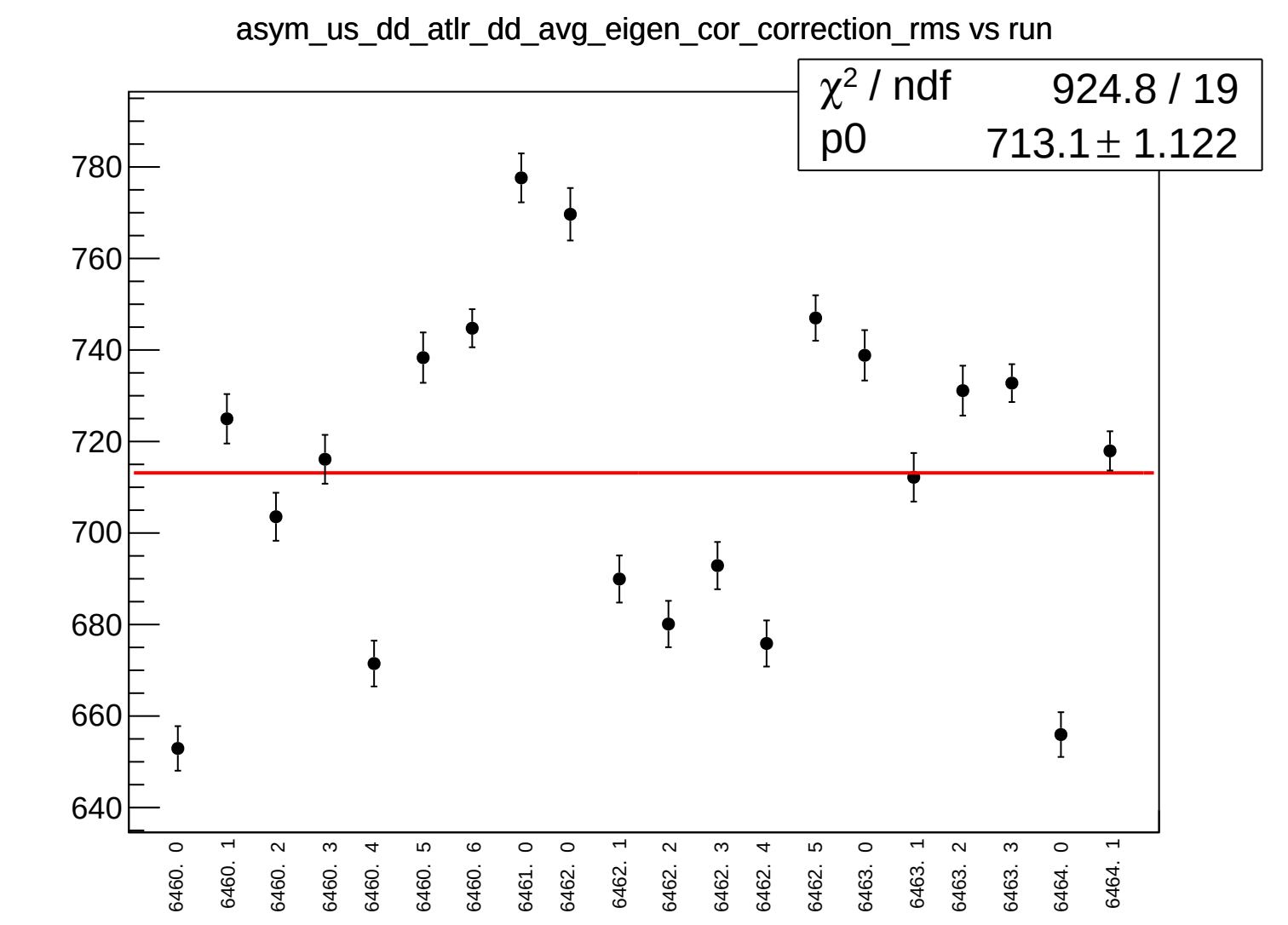

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 924.8 / 19
p0 713.1 ± 1.122
780
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

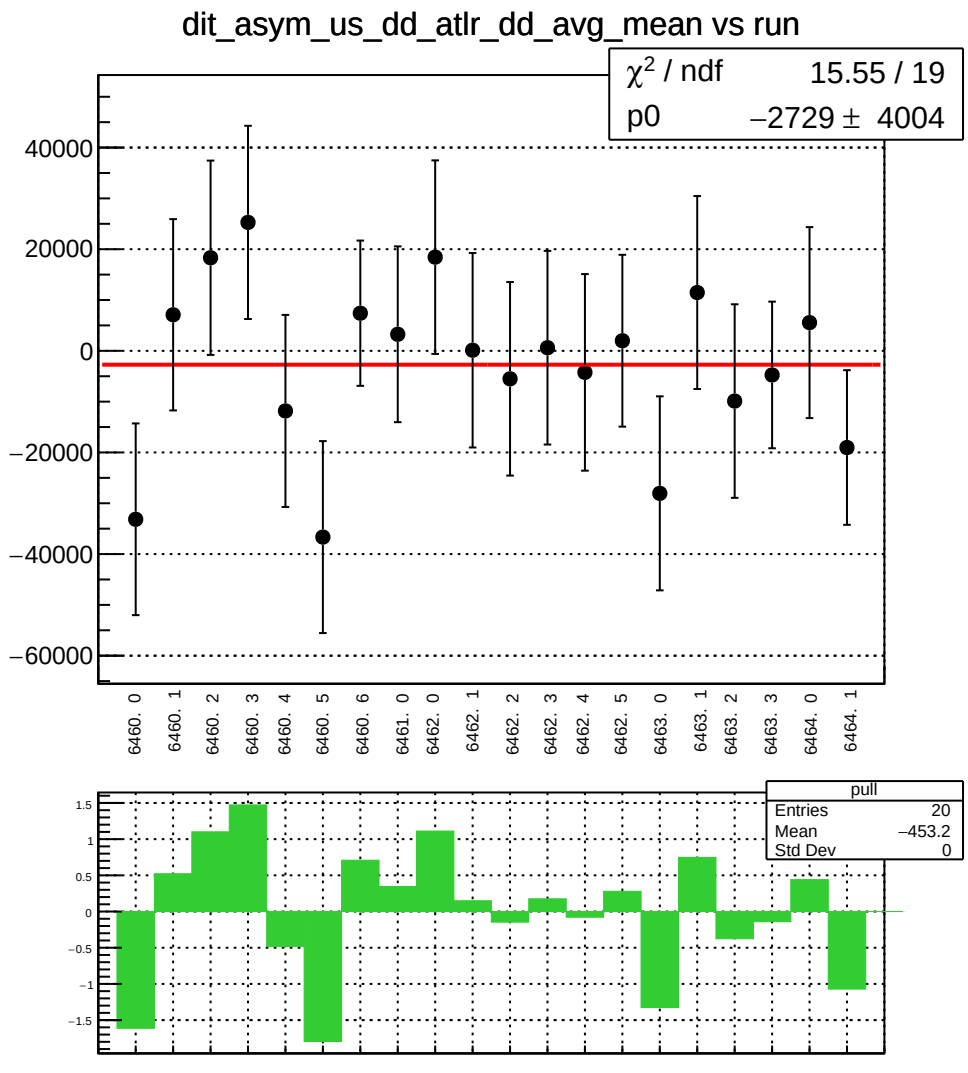

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 15.55 / 19
p0 −2875 ± 4003
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −303.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

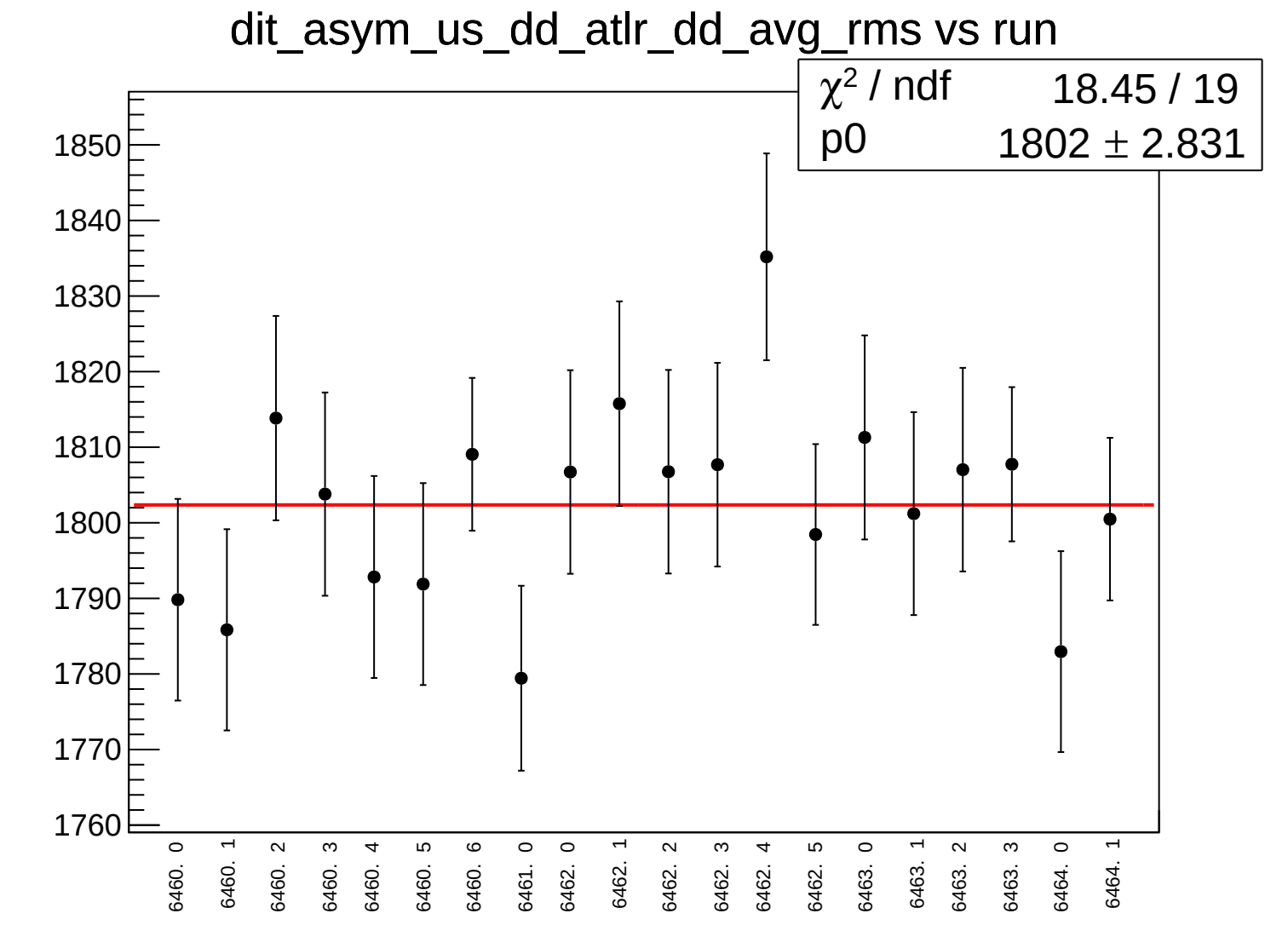

pull1D
Entries 20
Mean 0.001916
Std Dev 0.8817
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

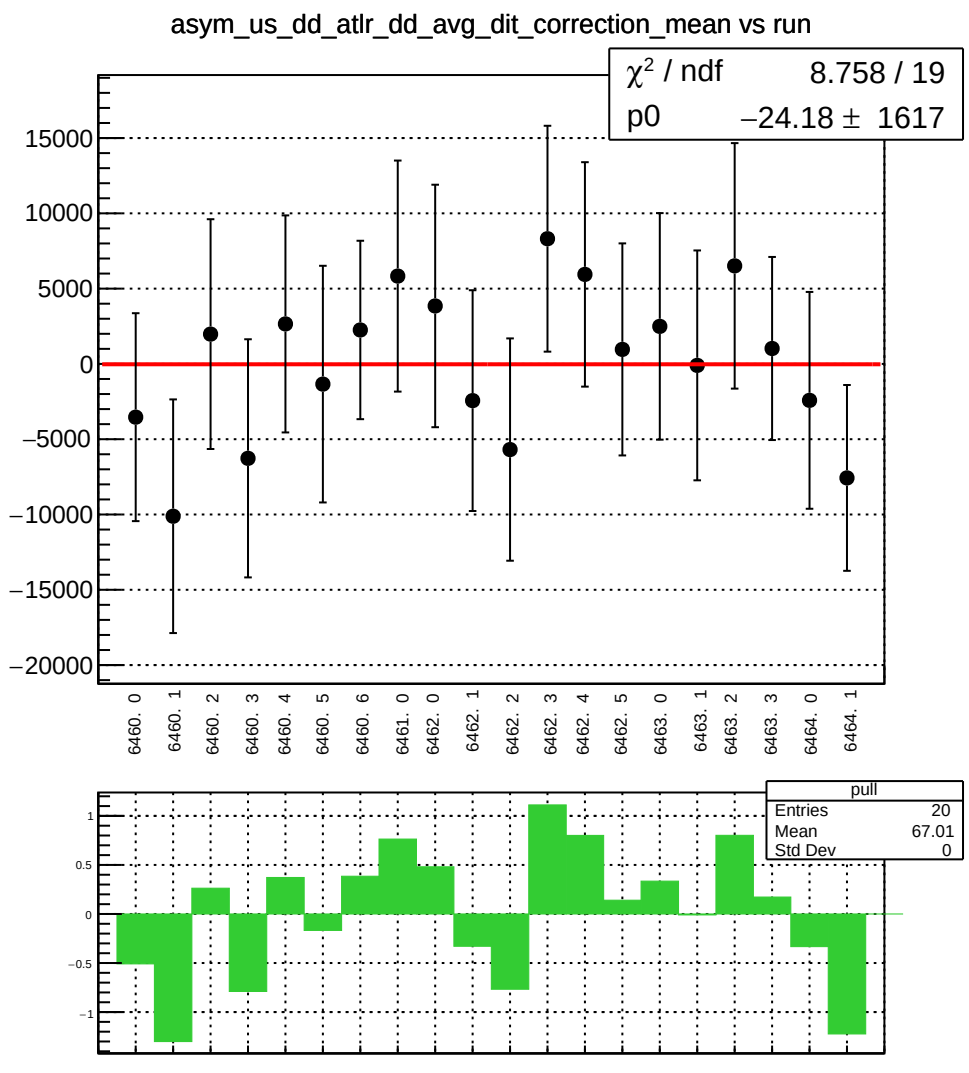

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 18.34 / 19
p0 1802 ± 2.83
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

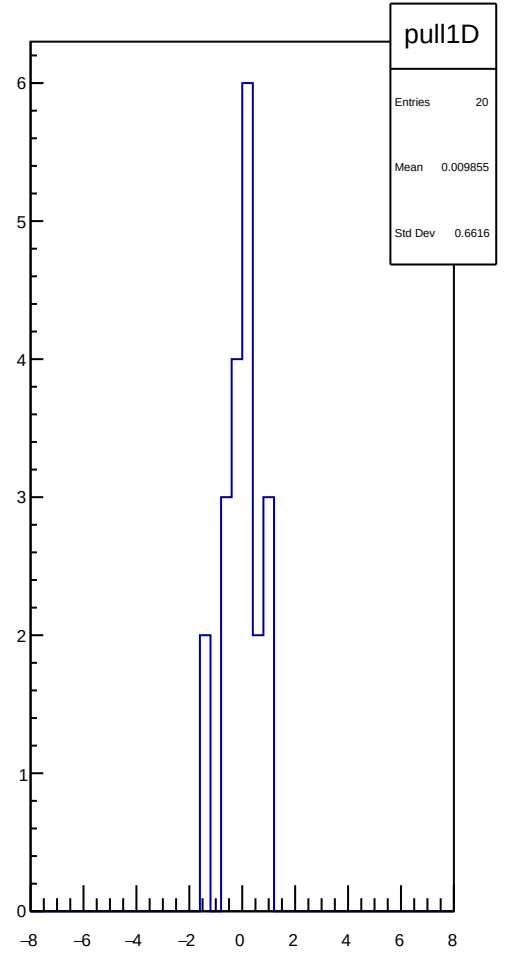

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 8.659 / 19
p0 −147.5 ± 1586
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.95
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.009983
Std Dev 0.6579
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

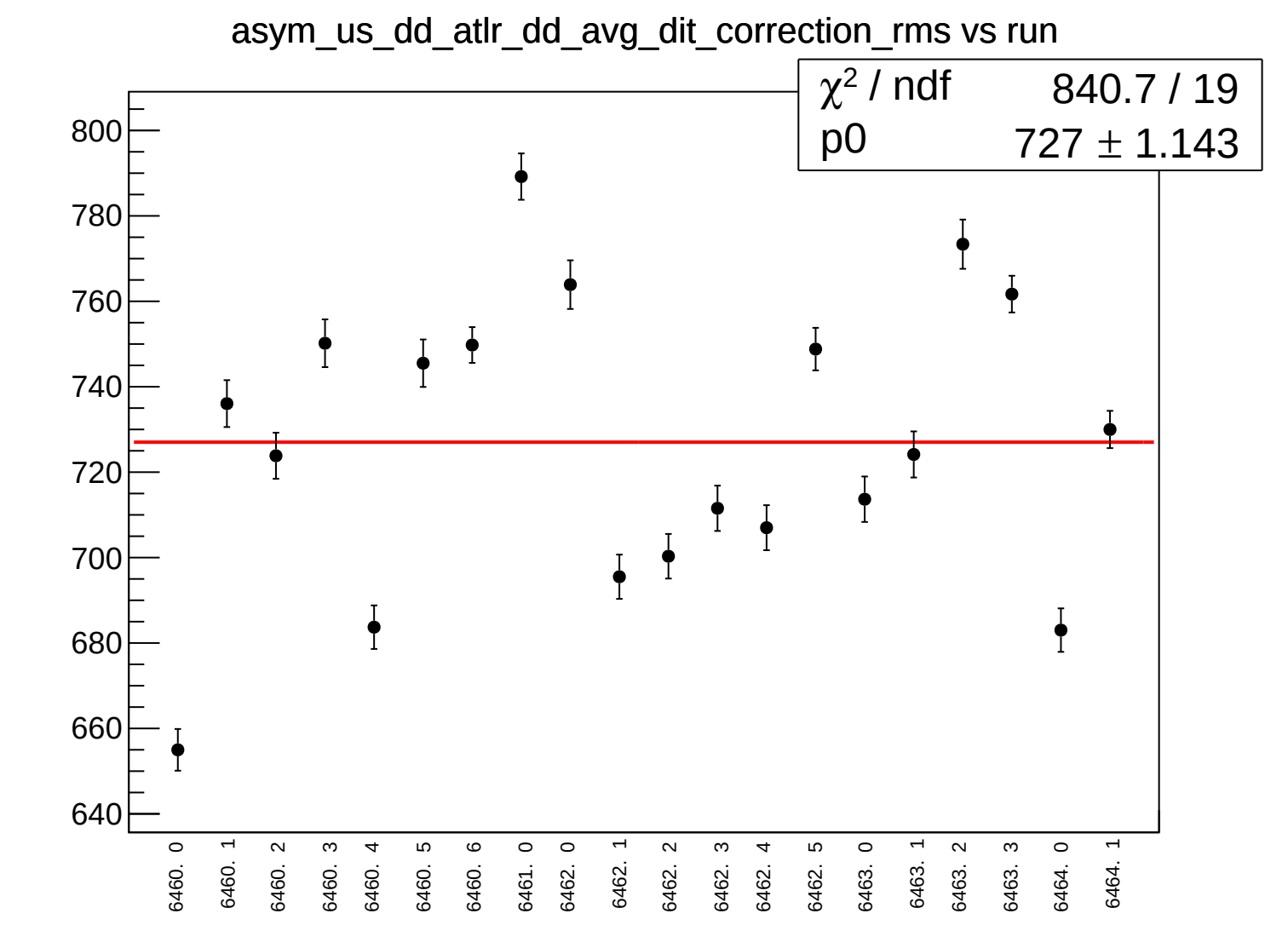

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 924.8 / 19
p0 713.1 ± 1.122
780
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

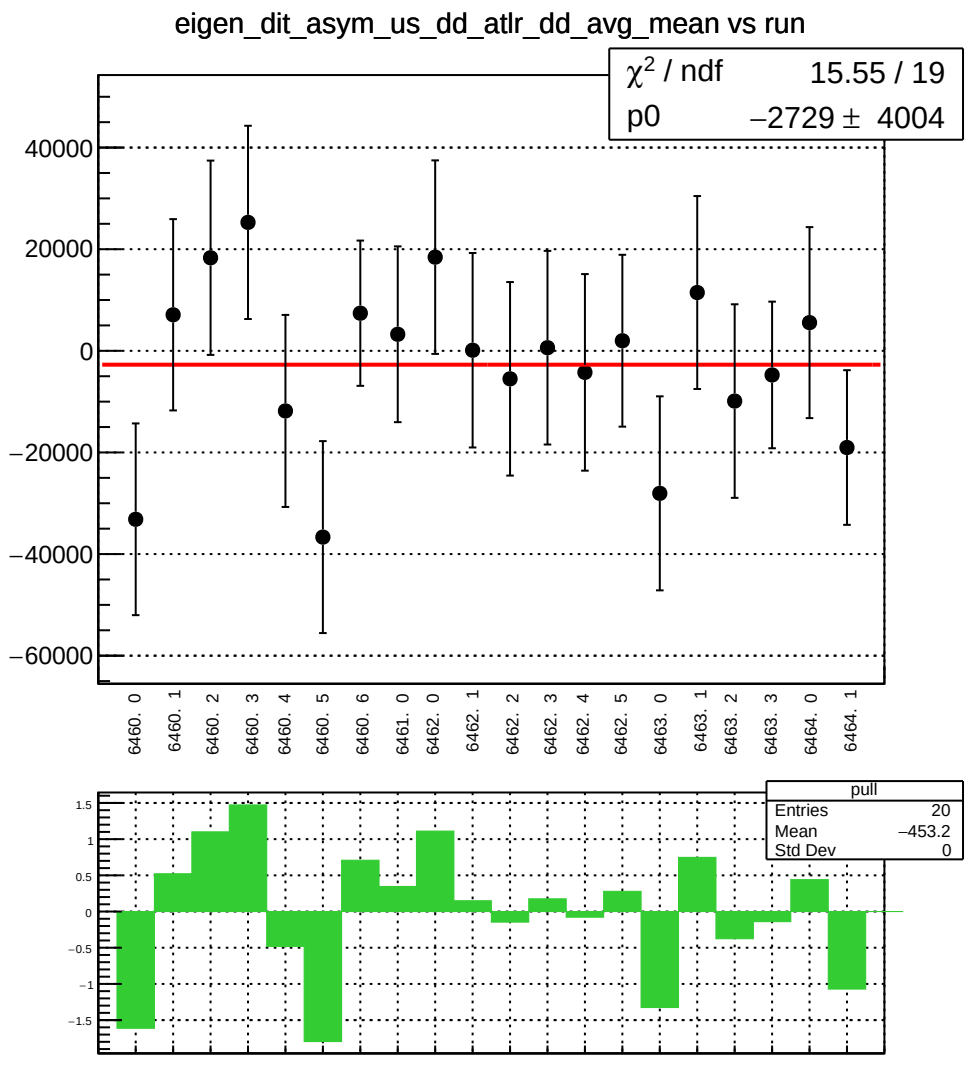

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 15.55 / 19
p0 −2729 ± 4004
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −453.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.001307
Std Dev 0.8817
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

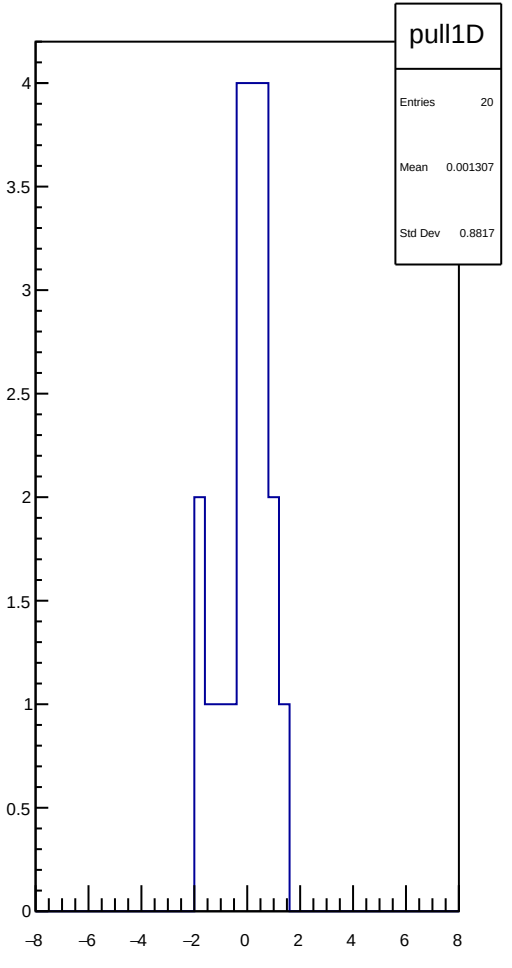

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 18.45 / 19
p0 1802 ± 2.831
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

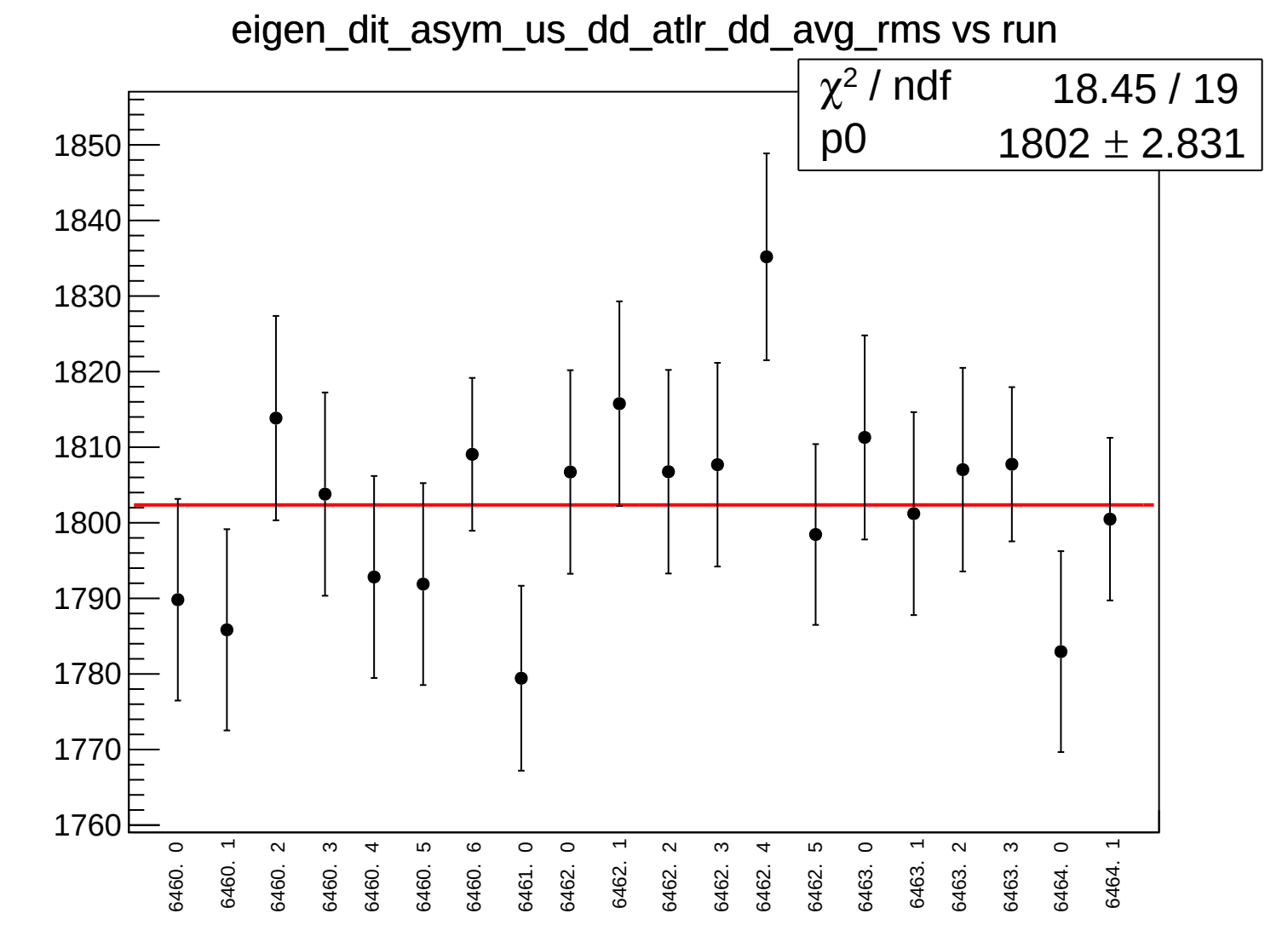

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 8.758 / 19
p0 −24.18 ± 1617
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 67.01
Std Dev 0
1
0.5
0
−0.5
−1

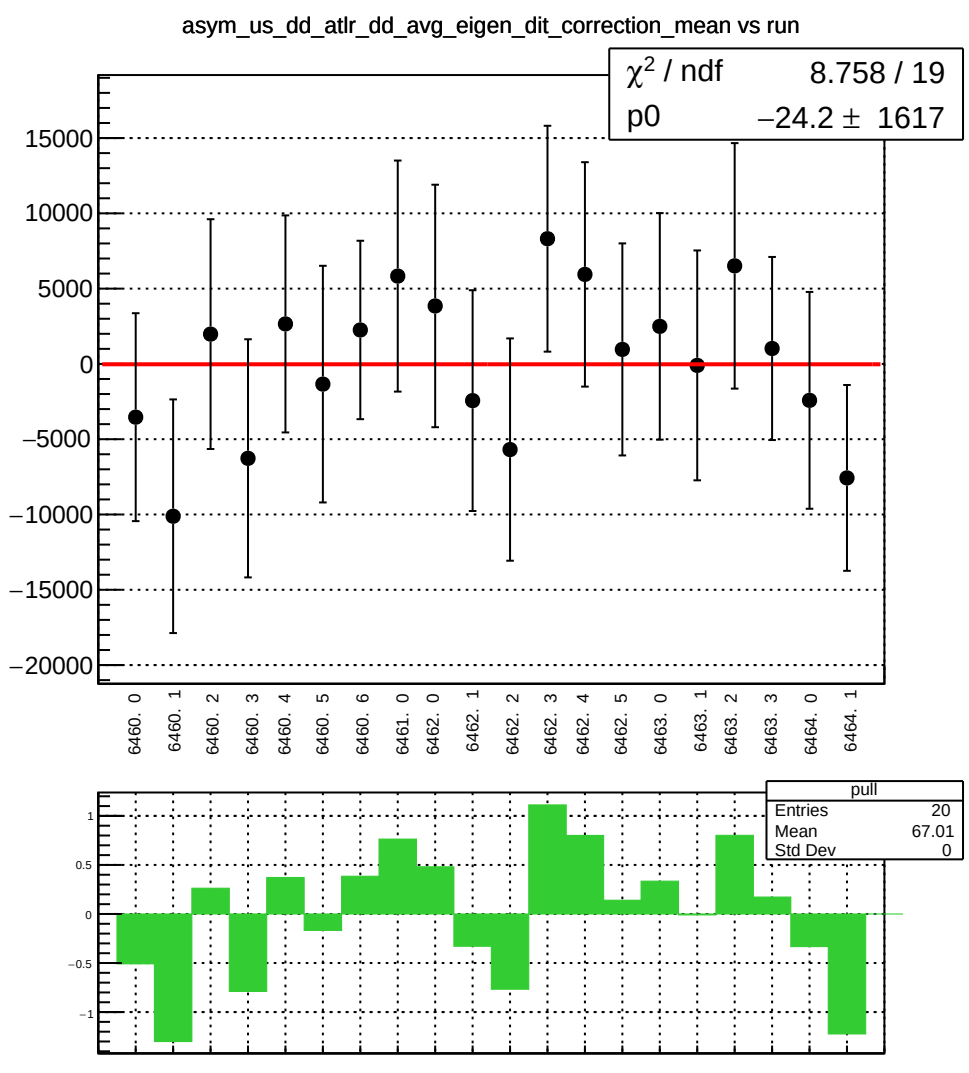

pull1D
Entries 20
Mean 0.009855
Std Dev 0.6616
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

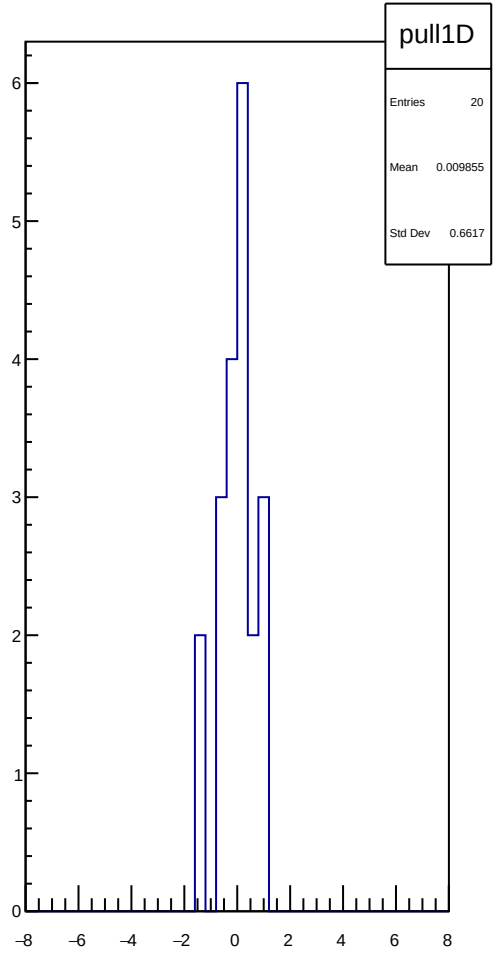

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 840.7 / 19
p0 727 ± 1.143
800
780
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

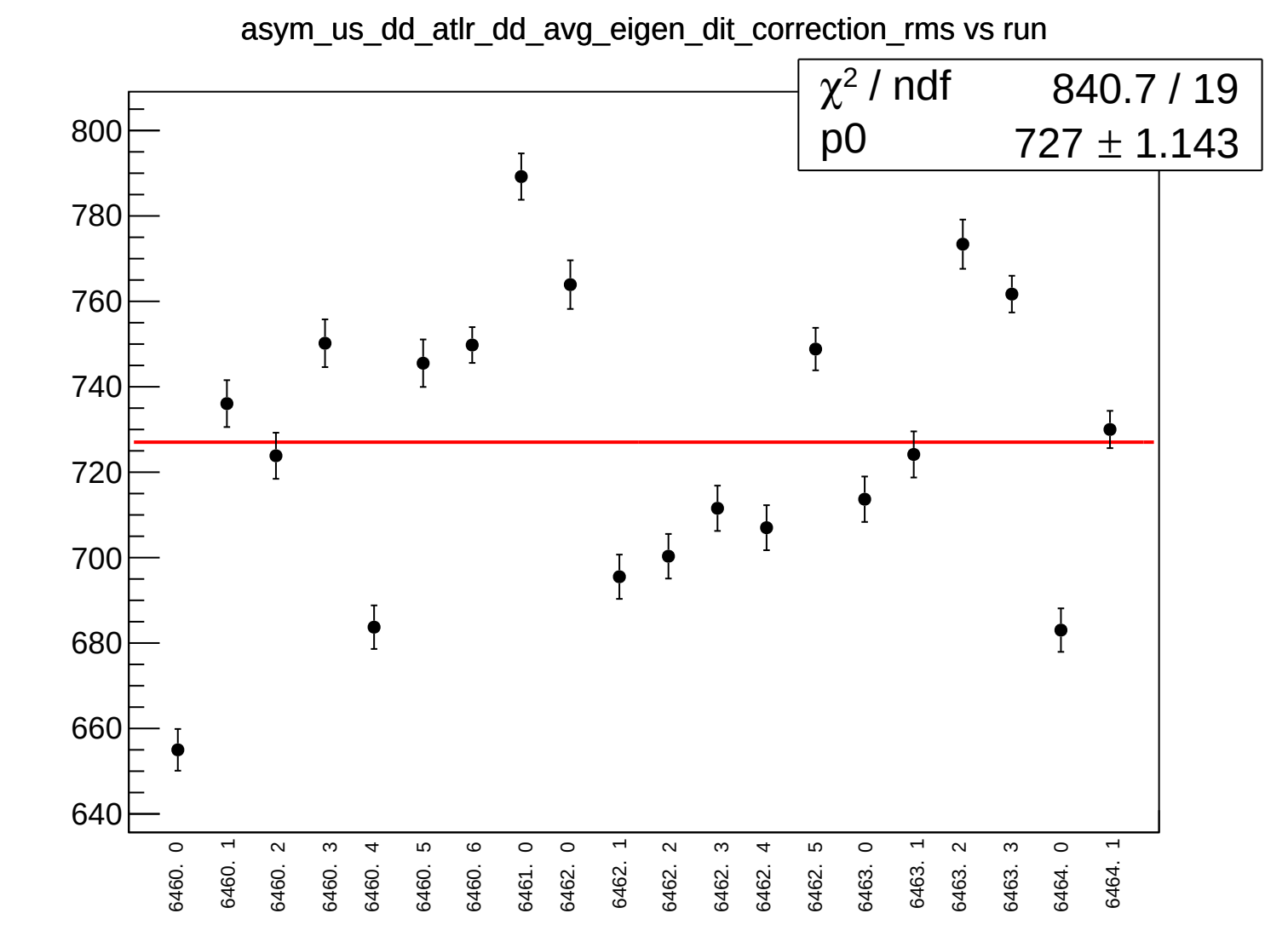

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 15.55 / 19
p0 −2729 ± 4004
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −453.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

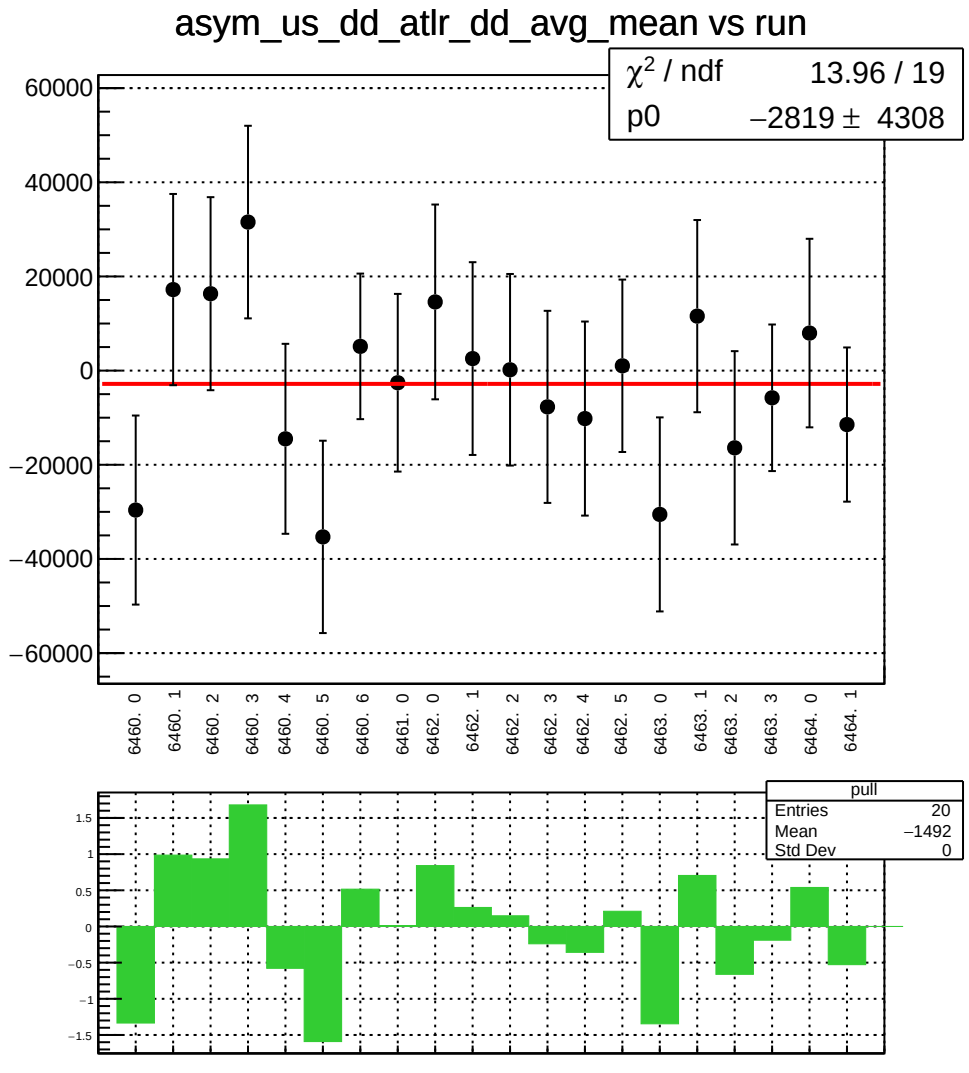

pull1D
Entries 20
Mean 0.001307
Std Dev 0.8817
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

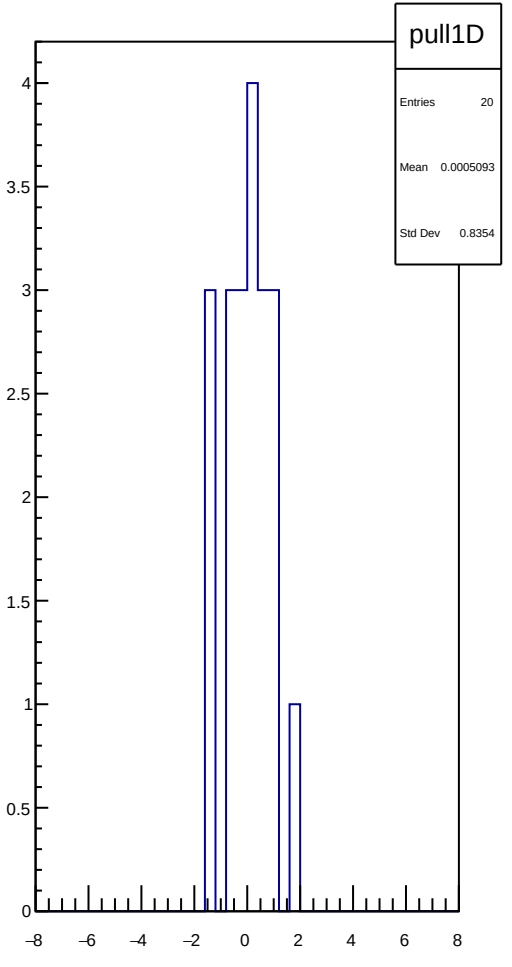

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 18.45 / 19
p0 1802 ± 2.831
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

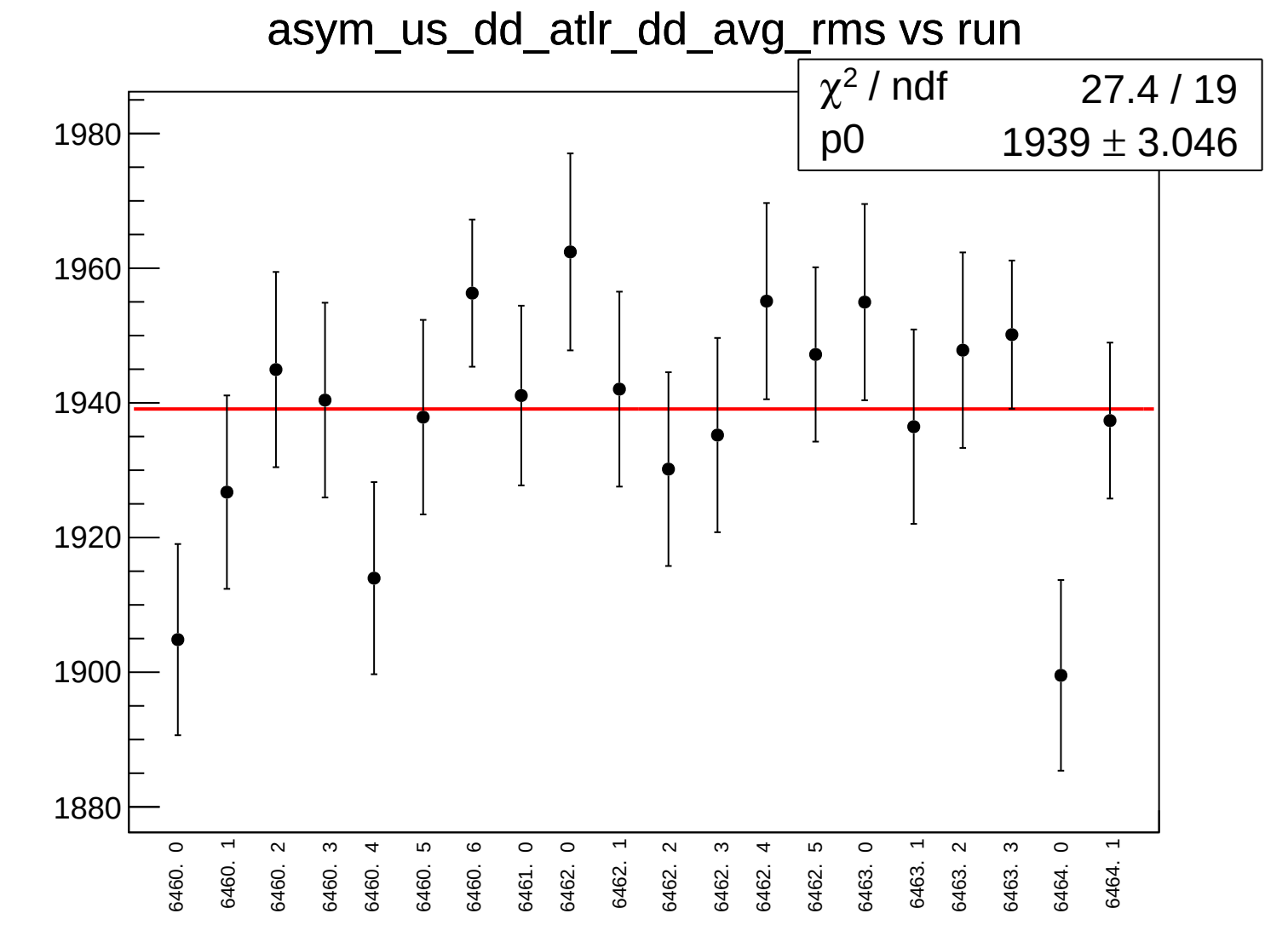

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 8.758 / 19
p0 −24.2 ± 1617
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 67.01
Std Dev 0
1
0.5
0
−0.5
−1

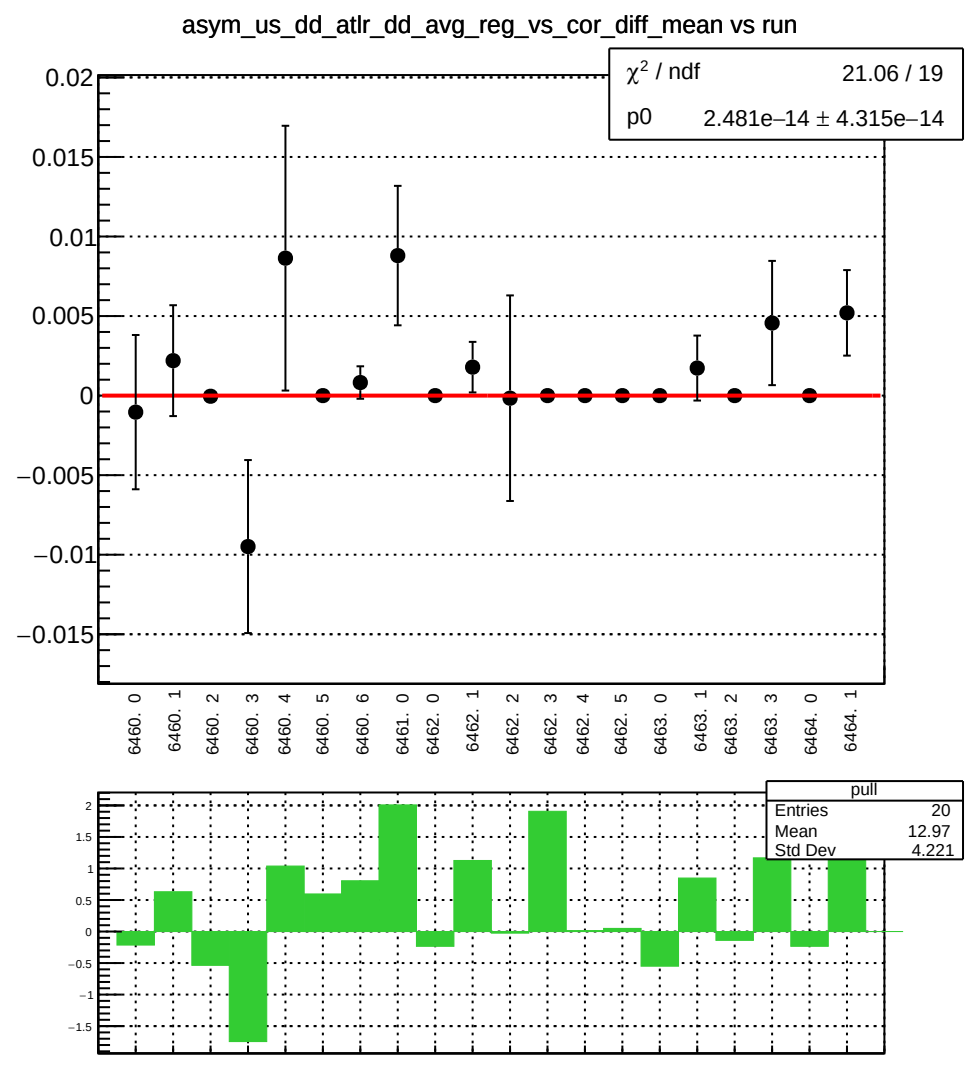

pull1D
Entries 20
Mean 0.009855
Std Dev 0.6617
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

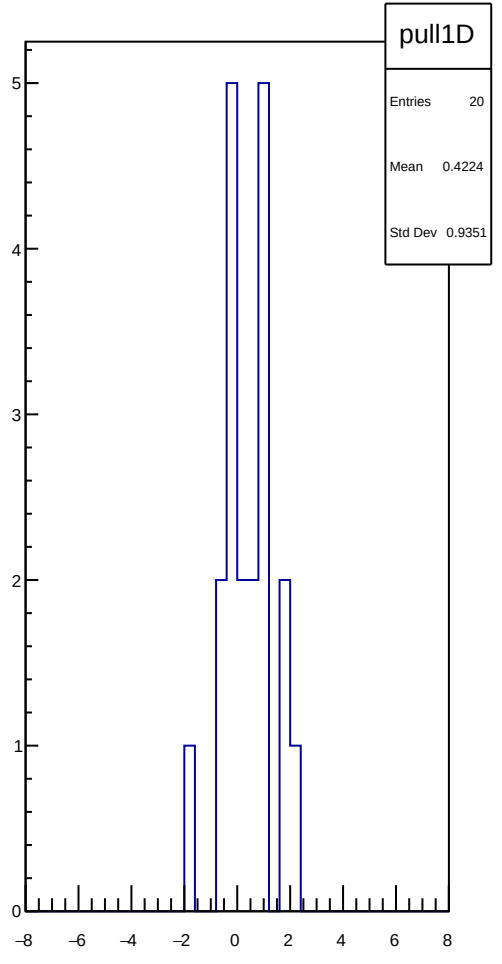

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 840.7 / 19
p0 727 ± 1.143
800
780
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

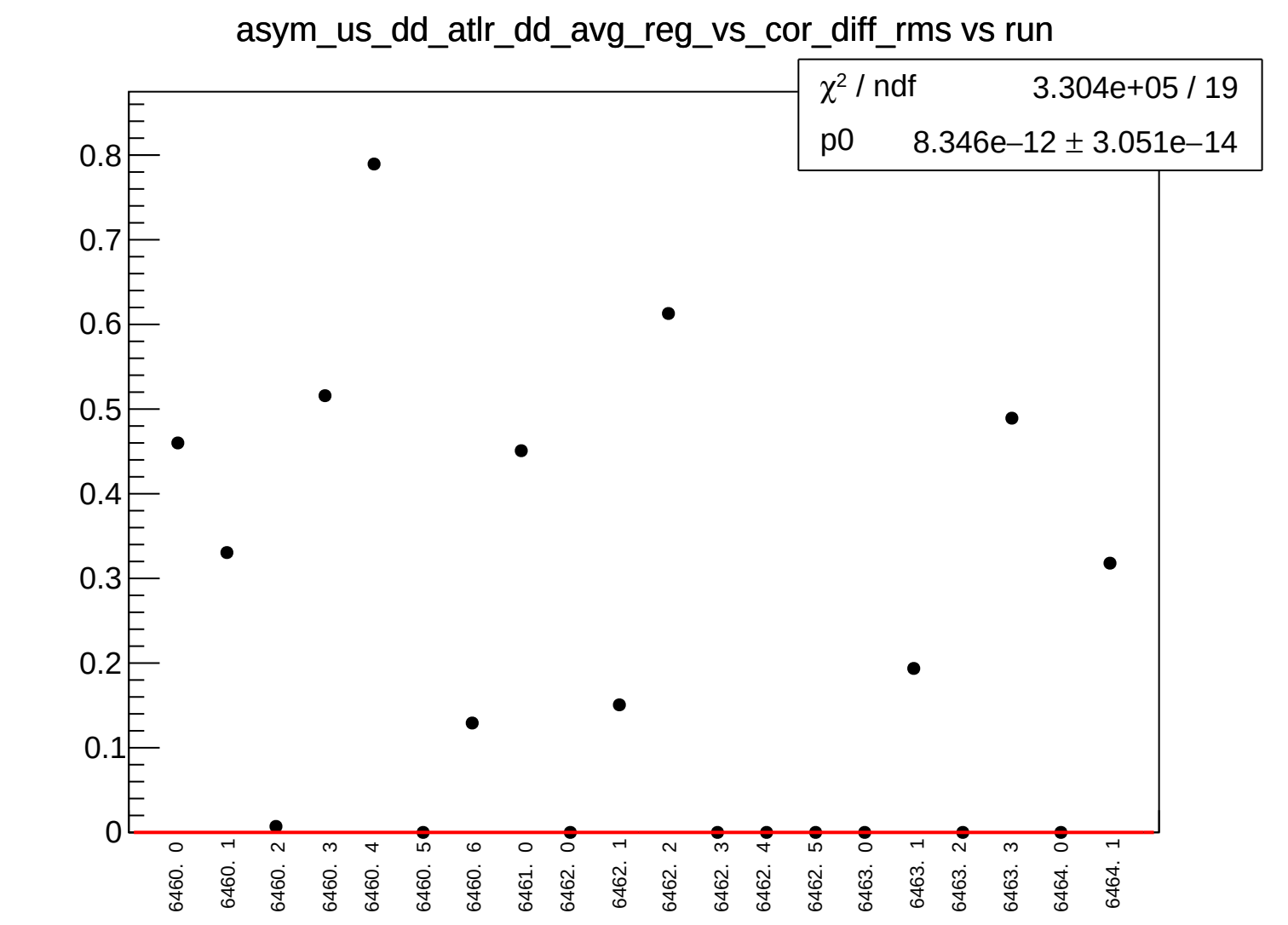

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 13.96 / 19
p0 −2819 ± 4308
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1492
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

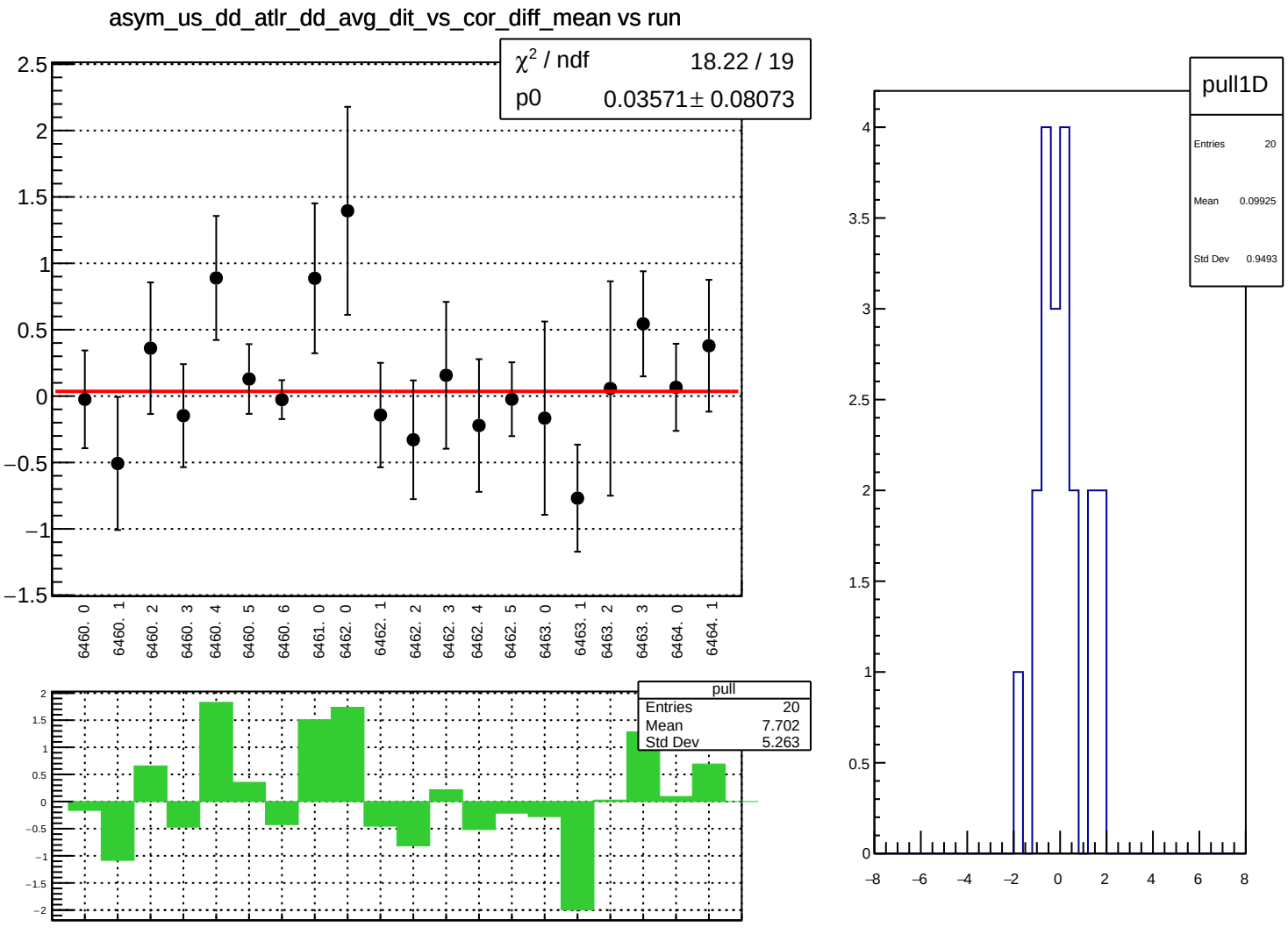

pull1D
Entries 20
Mean 0.0005093
Std Dev 0.8354
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

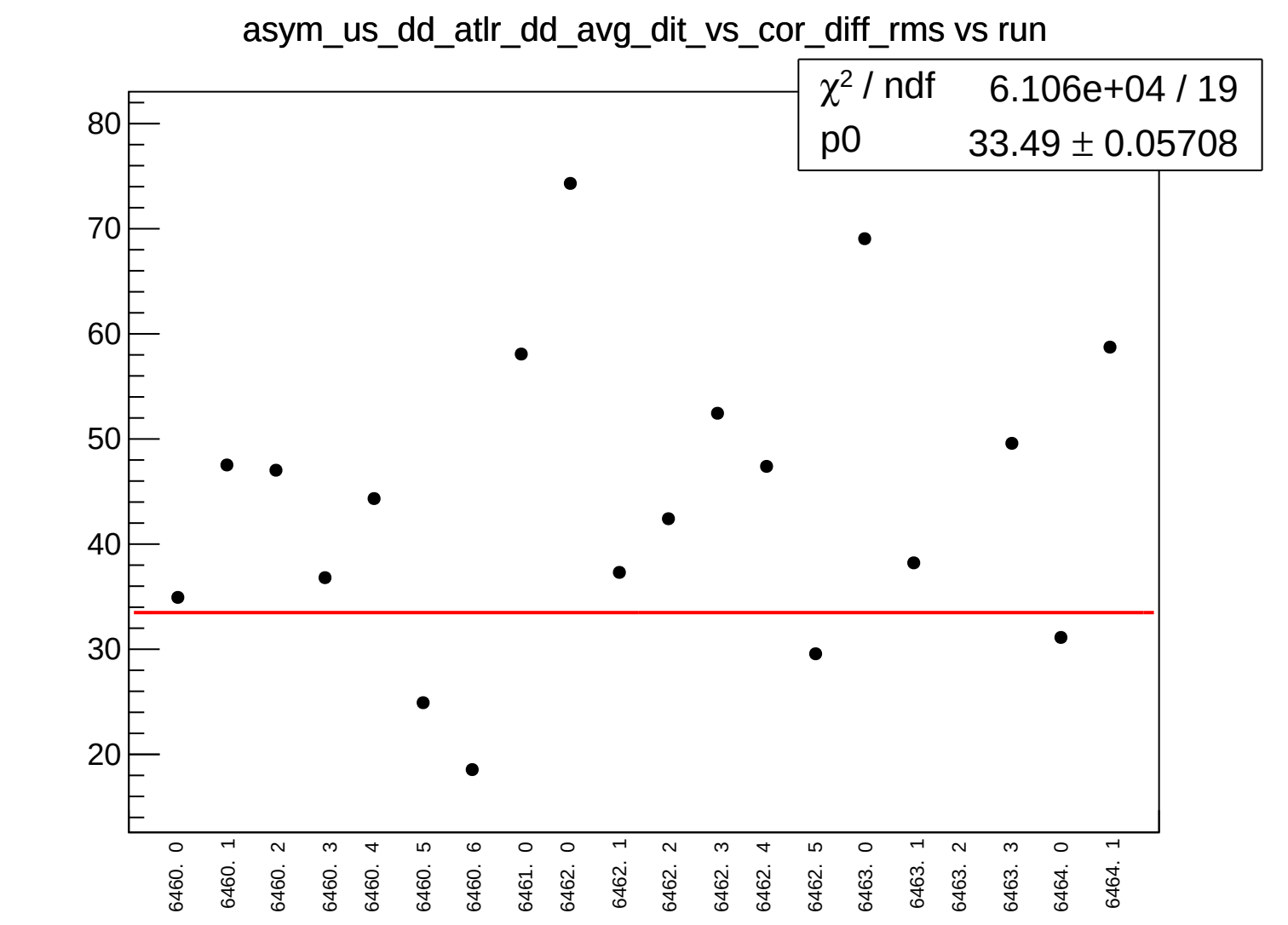

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 27.4 / 19
p0 1939 ± 3.046
1980
1960
1940
1920
1900
1880
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

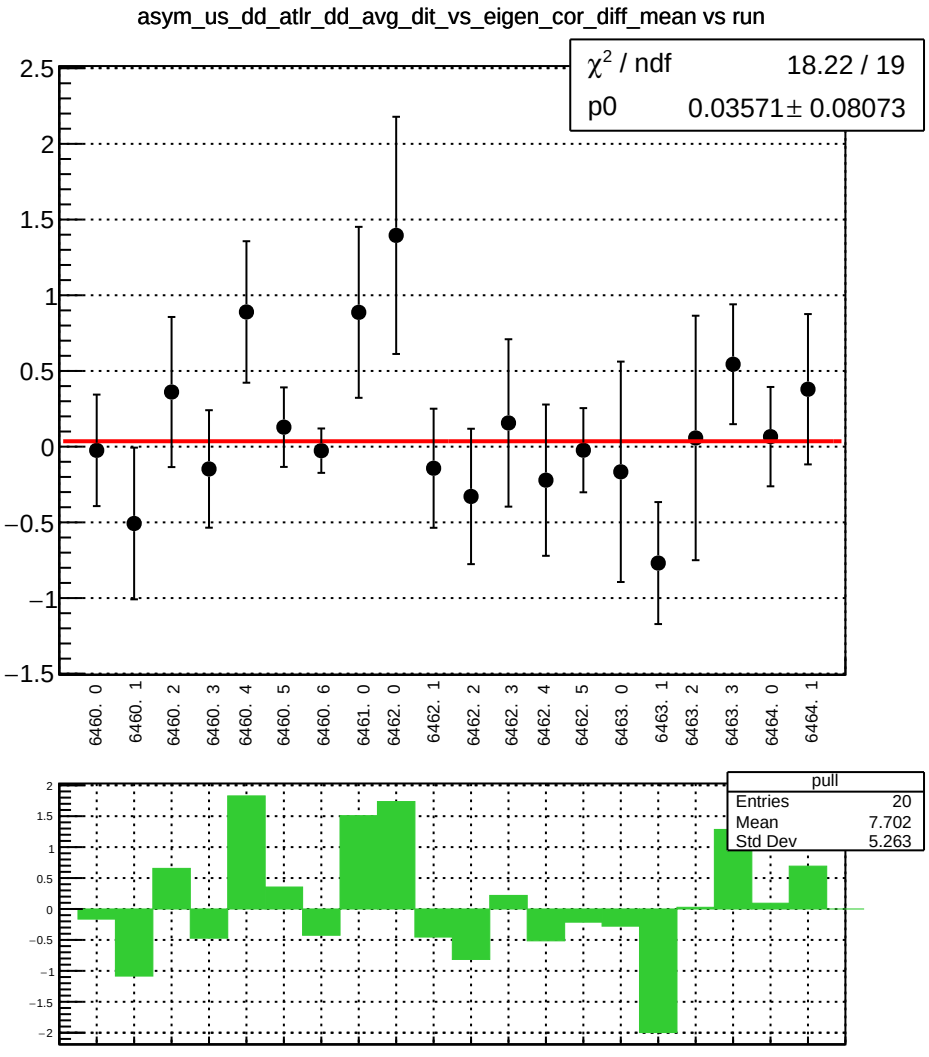

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.06 / 19
p0 2.481e−14 ± 4.315e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.97
Std Dev 4.221
2
1.5
1
0.5
0
−0.5
−1
−1.5

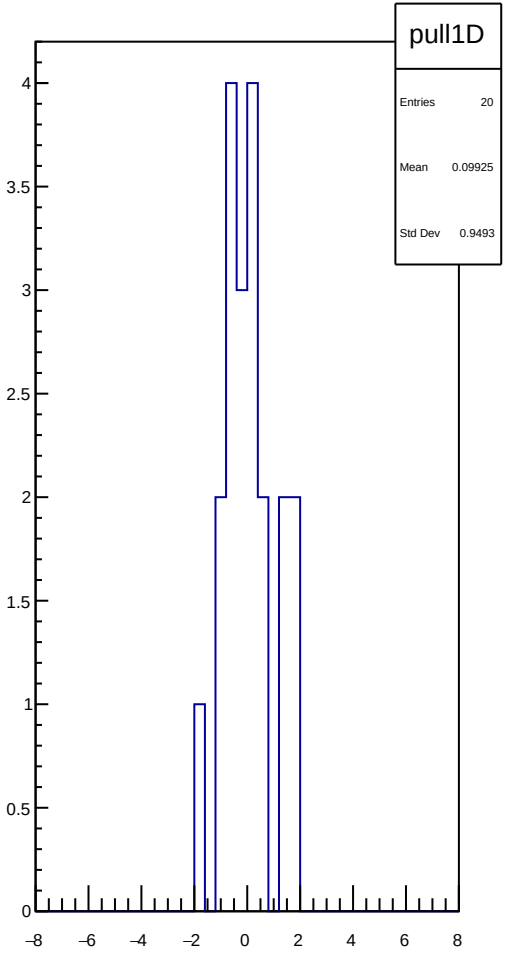

pull1D
Entries 20
Mean 0.4224
Std Dev 0.9351
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

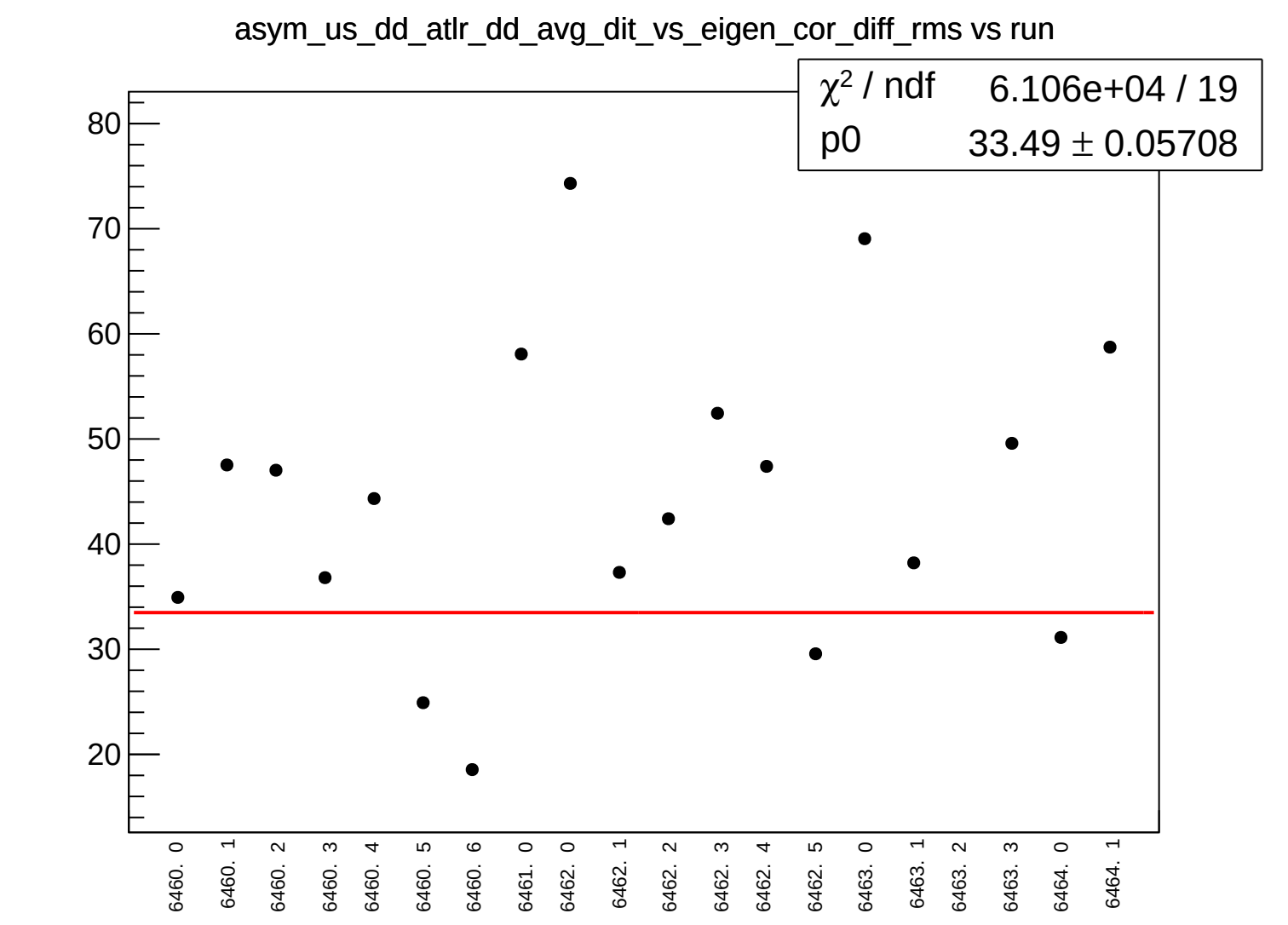

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.304e+05 / 19
p0 8.346e−12 ± 3.051e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

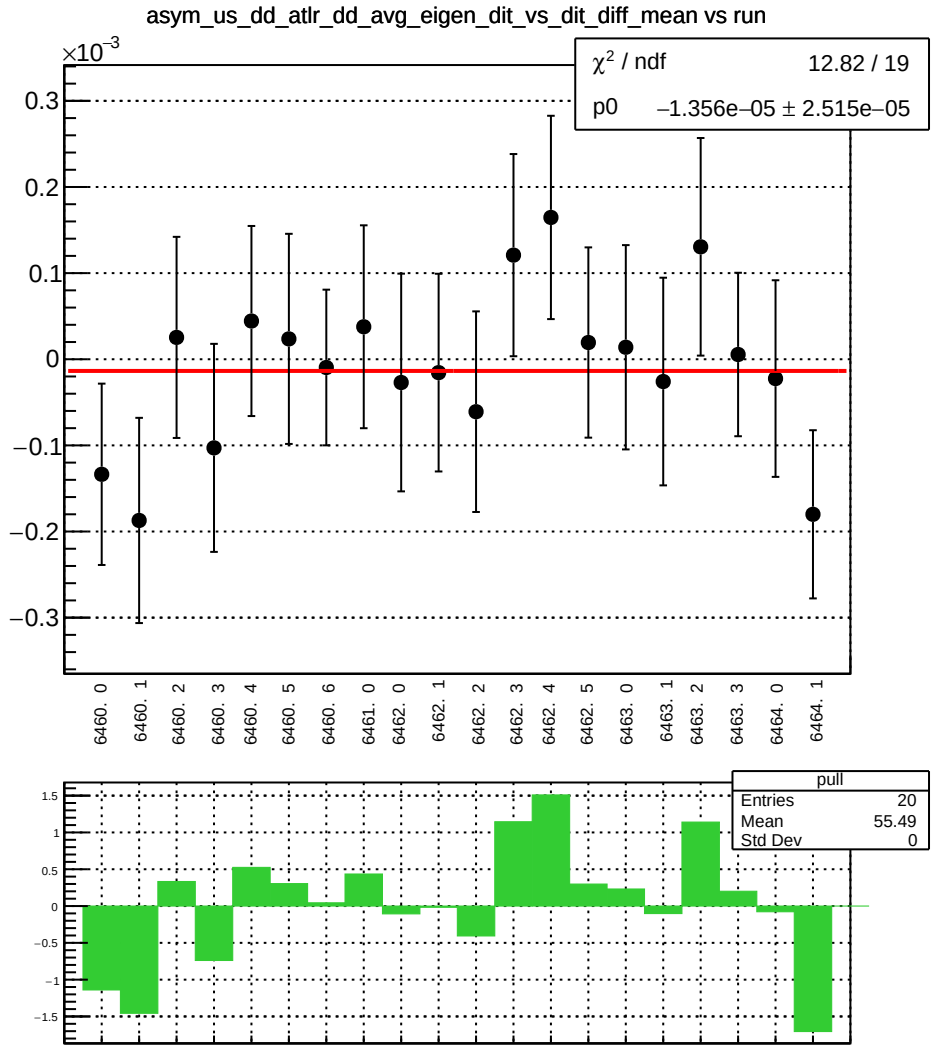

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 18.22 / 19
p0 0.03571 ± 0.08073
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.702
Std Dev 5.263
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.09925
Std Dev 0.9493
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

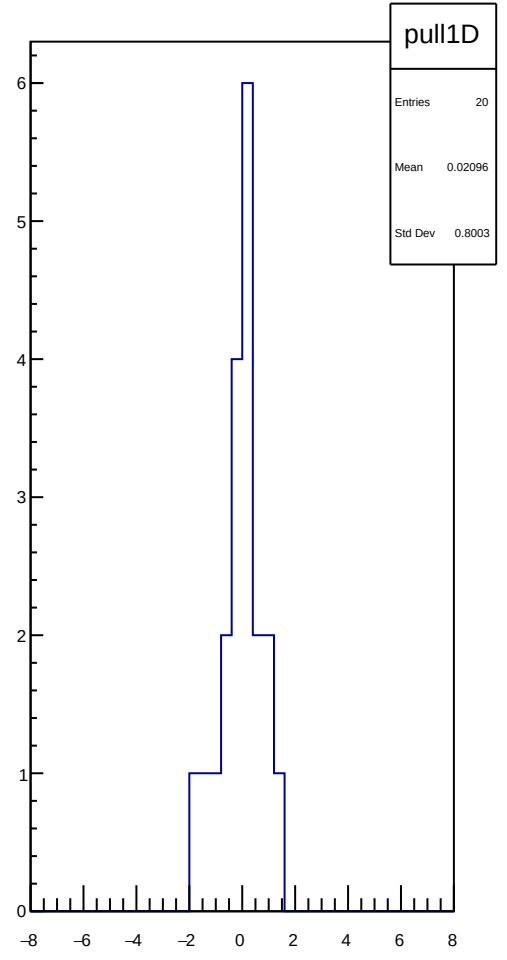

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.106e+04 / 19
p0 33.49 ± 0.05708
80
70
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

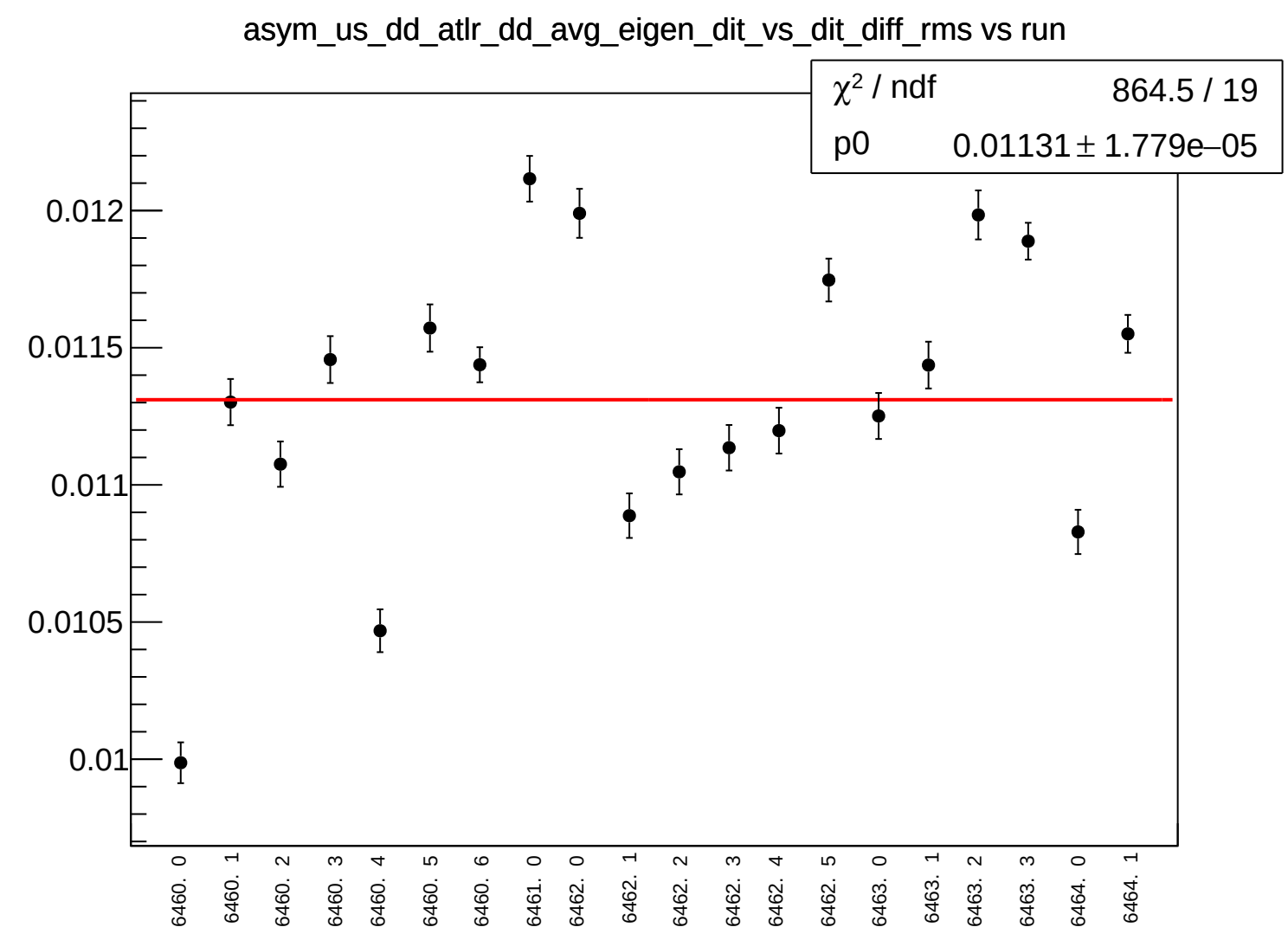

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.22 / 19
p0 0.03571± 0.08073
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.702
Std Dev 5.263
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

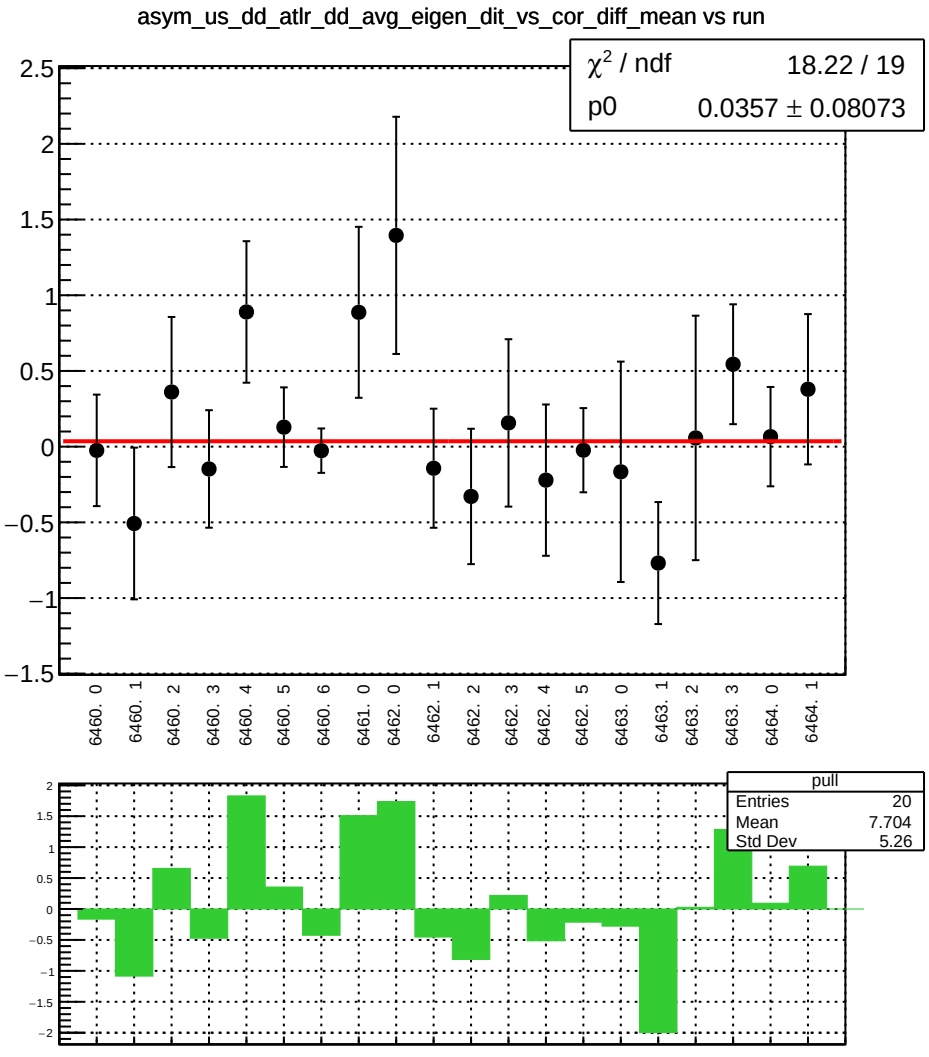

pull1D
Entries 20
Mean 0.09925
Std Dev 0.9493
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

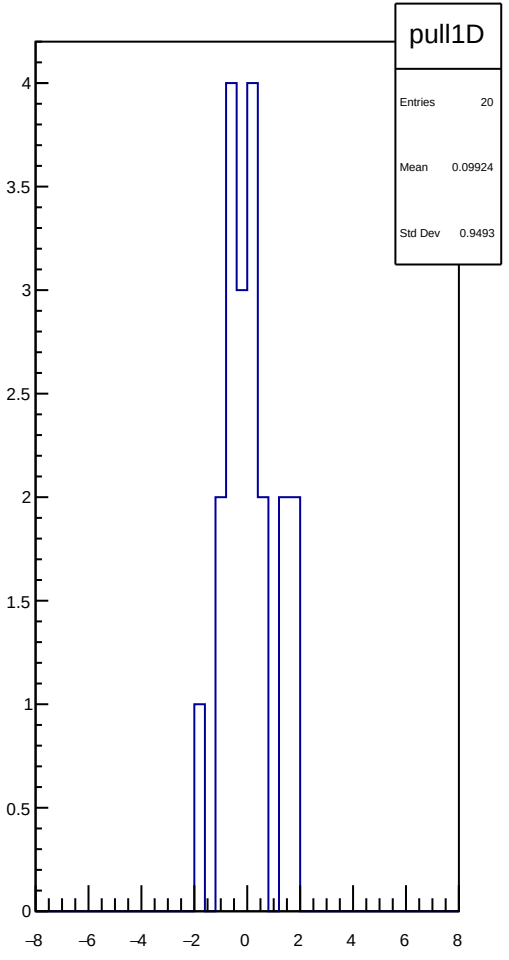

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.106e+04 / 19
p0 33.49 ± 0.05708
80
70
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

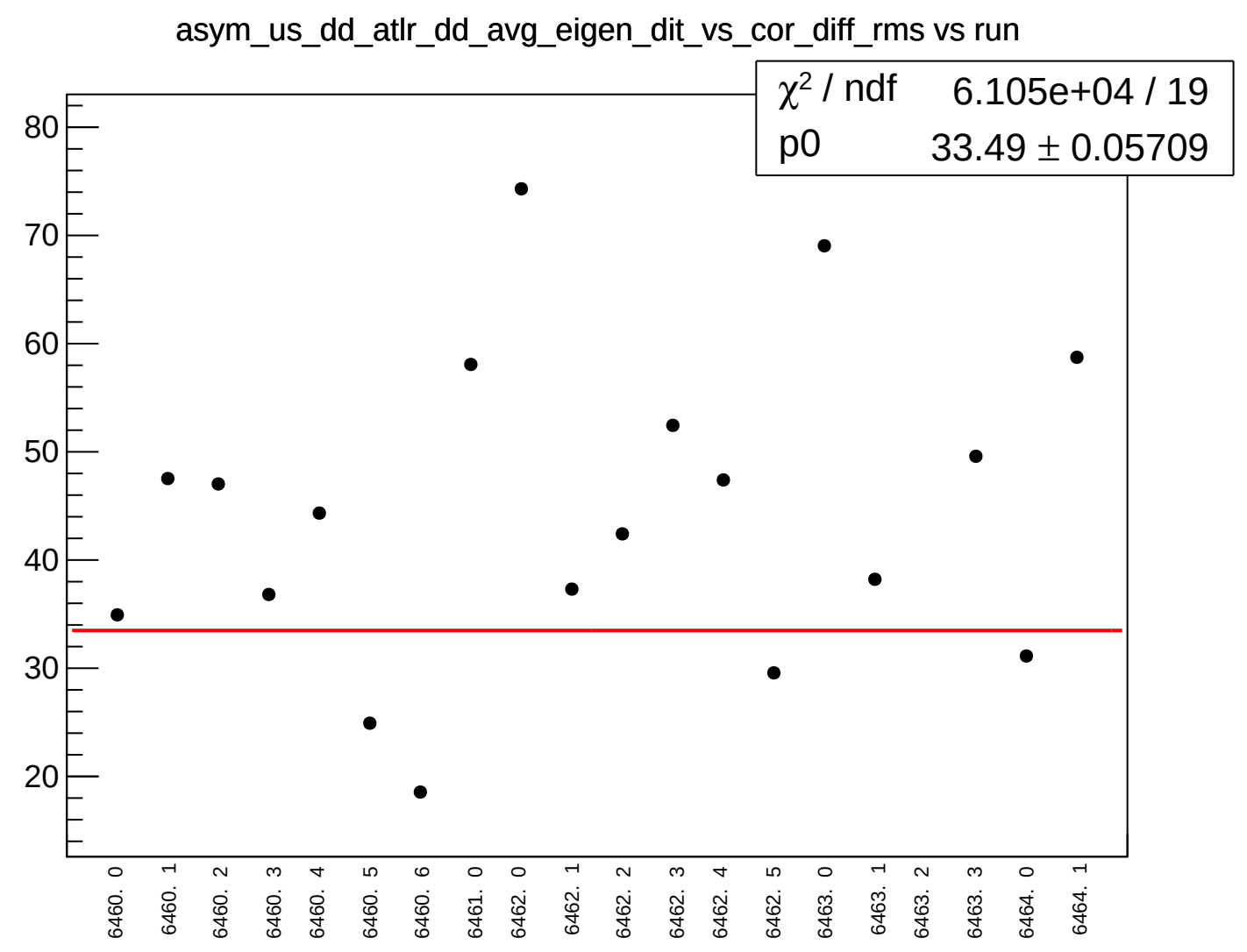

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.82 / 19
p0 −1.356e−05 ± 2.515e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 55.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

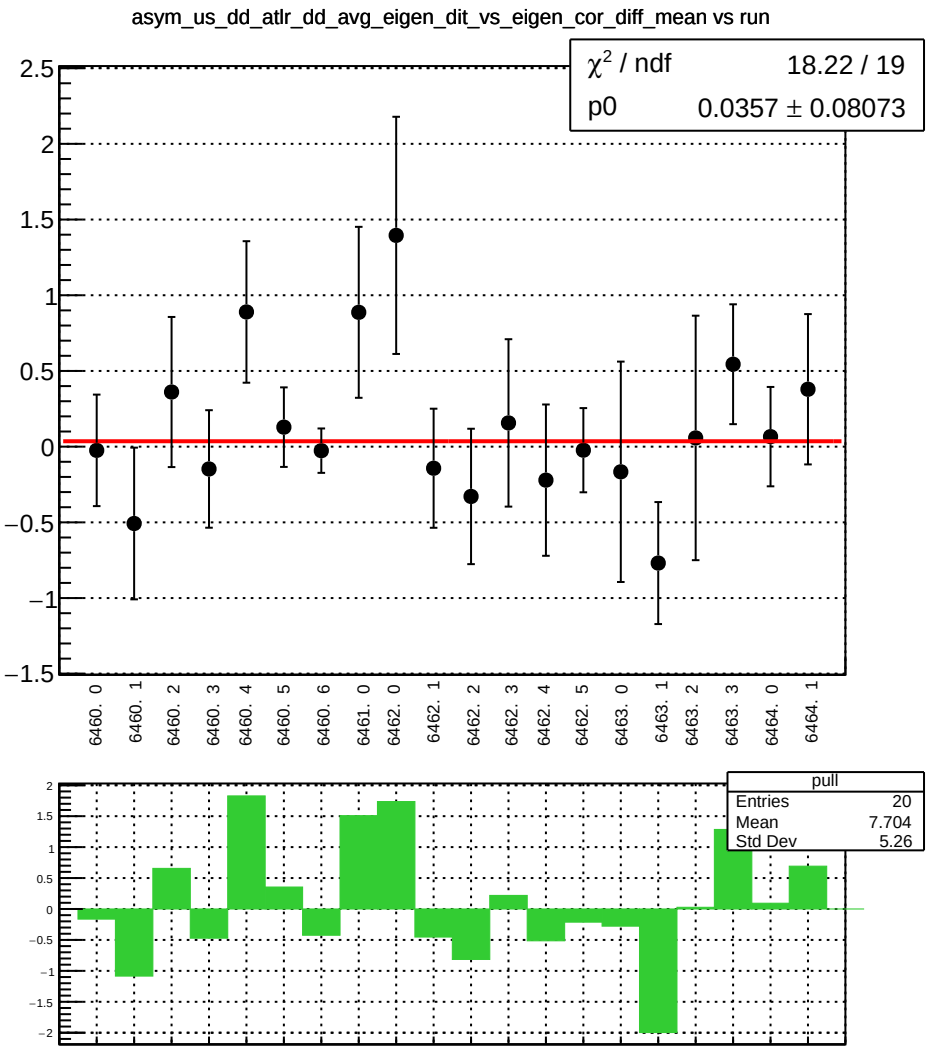

pull1D
Entries 20
Mean 0.02096
Std Dev 0.8003
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

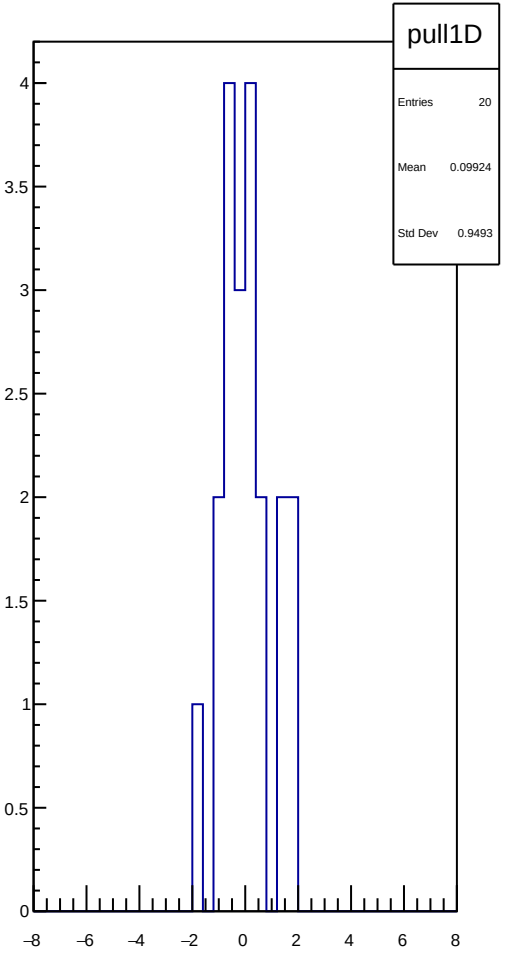

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 864.5 / 19
p0 0.01131 ± 1.779e–05
0.012
0.0115
0.011
0.0105
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

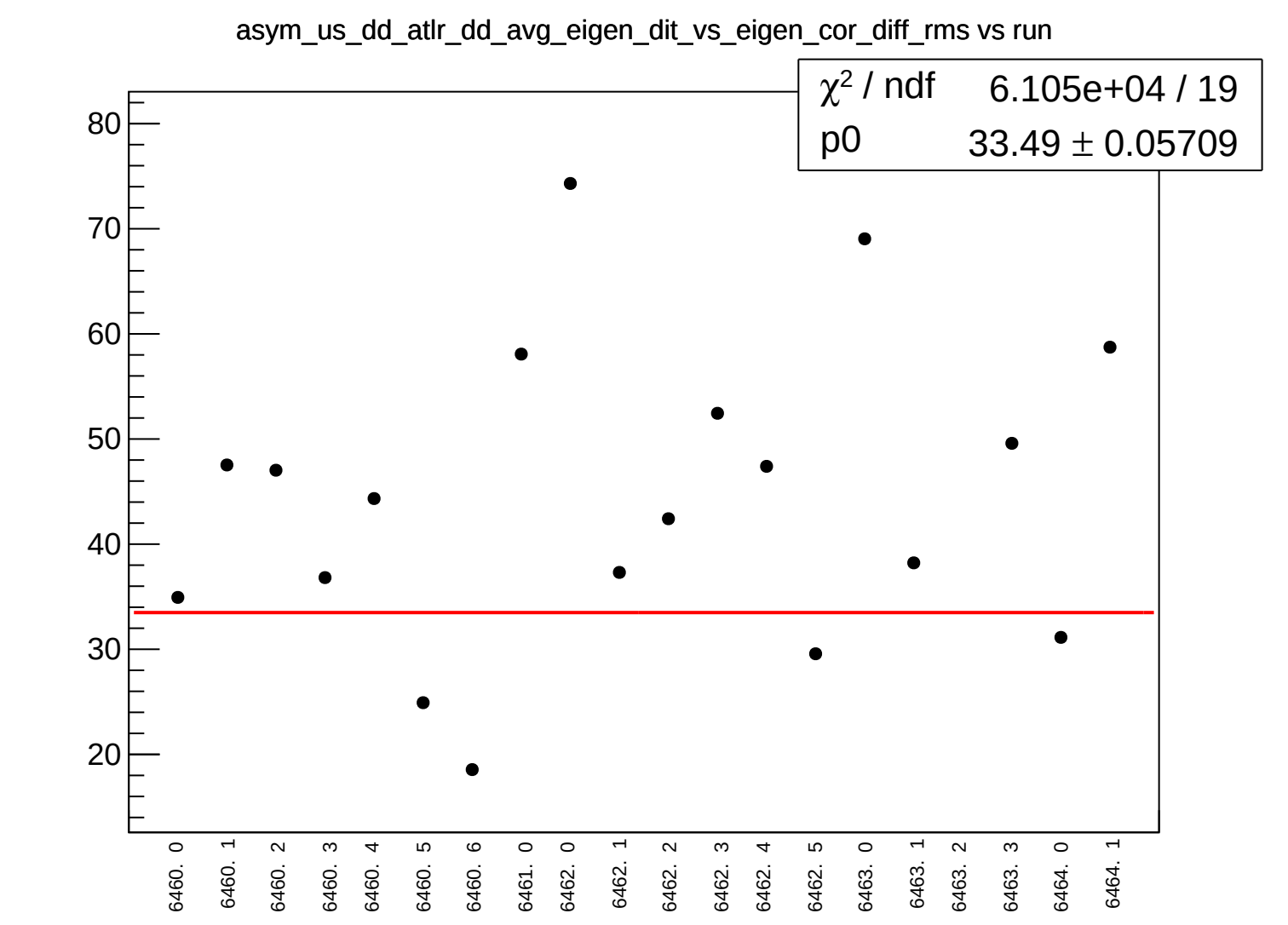

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.22 / 19
p0 0.0357 ± 0.08073
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.704
Std Dev 5.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

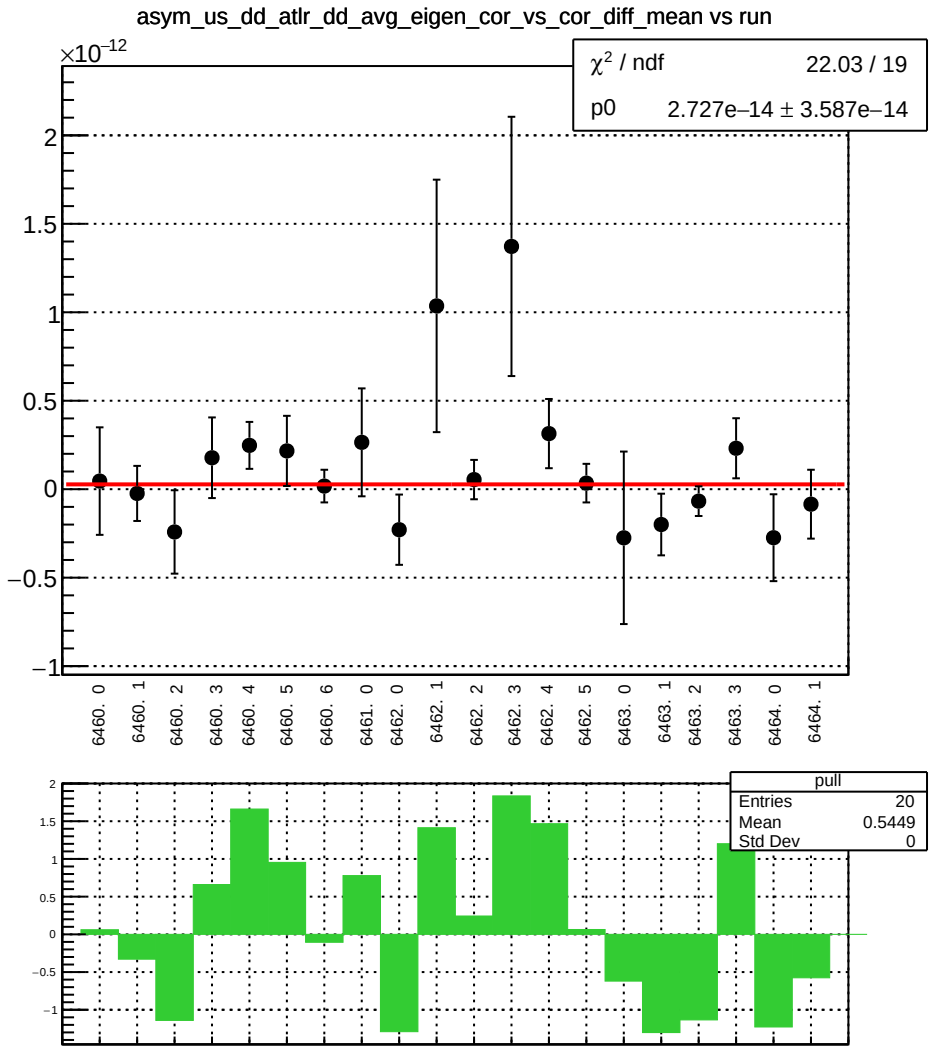

pull1D
Entries 20
Mean 0.09924
Std Dev 0.9493
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

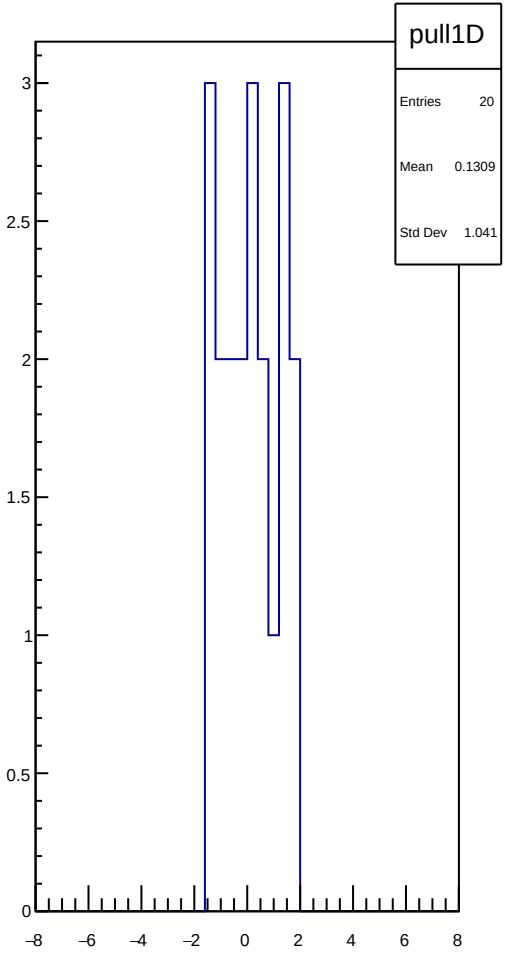

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.105e+04 / 19
p0 33.49 ± 0.05709
80
70
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

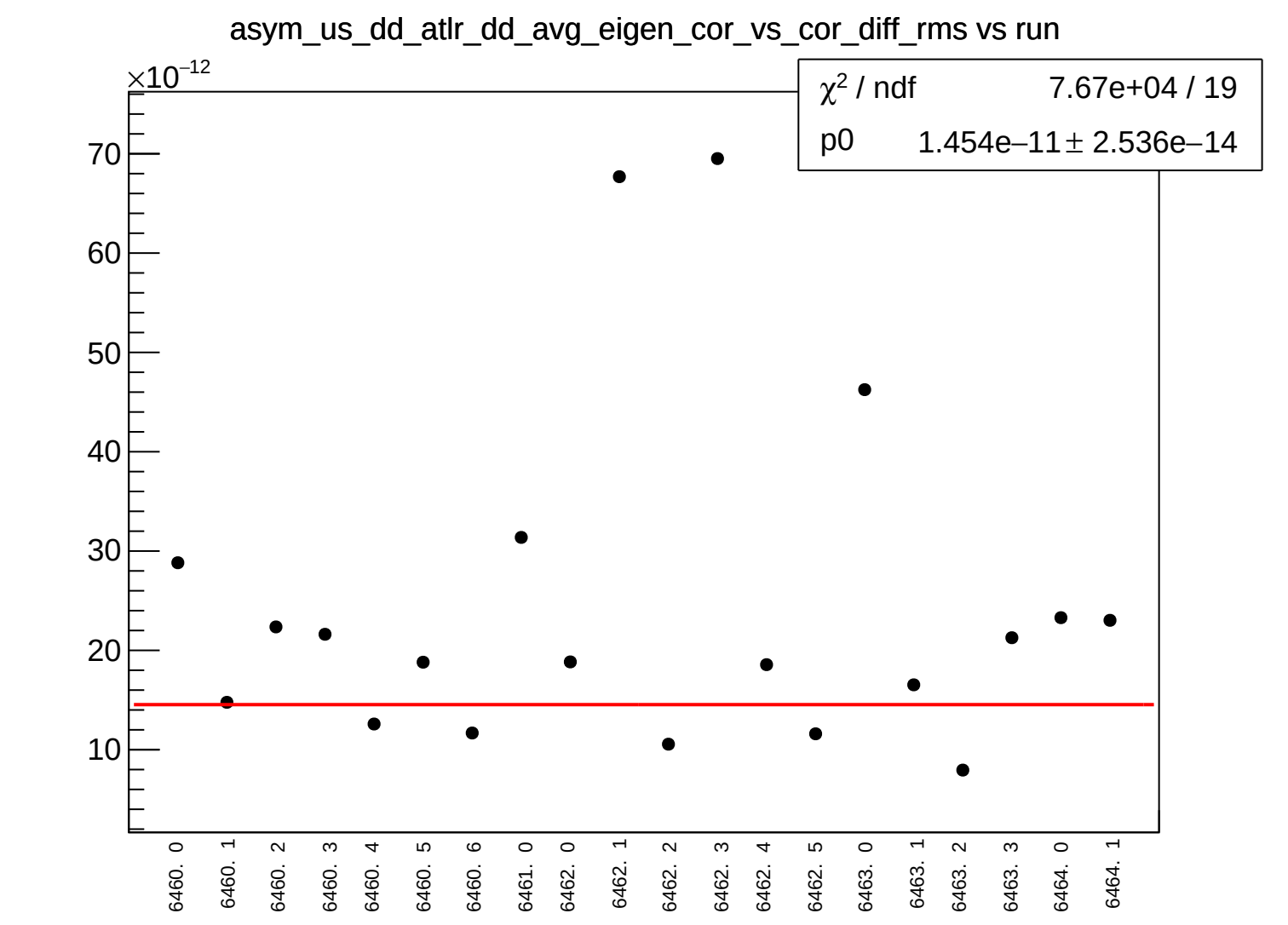

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.22 / 19
p0 0.0357 ± 0.08073
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.704
Std Dev 5.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

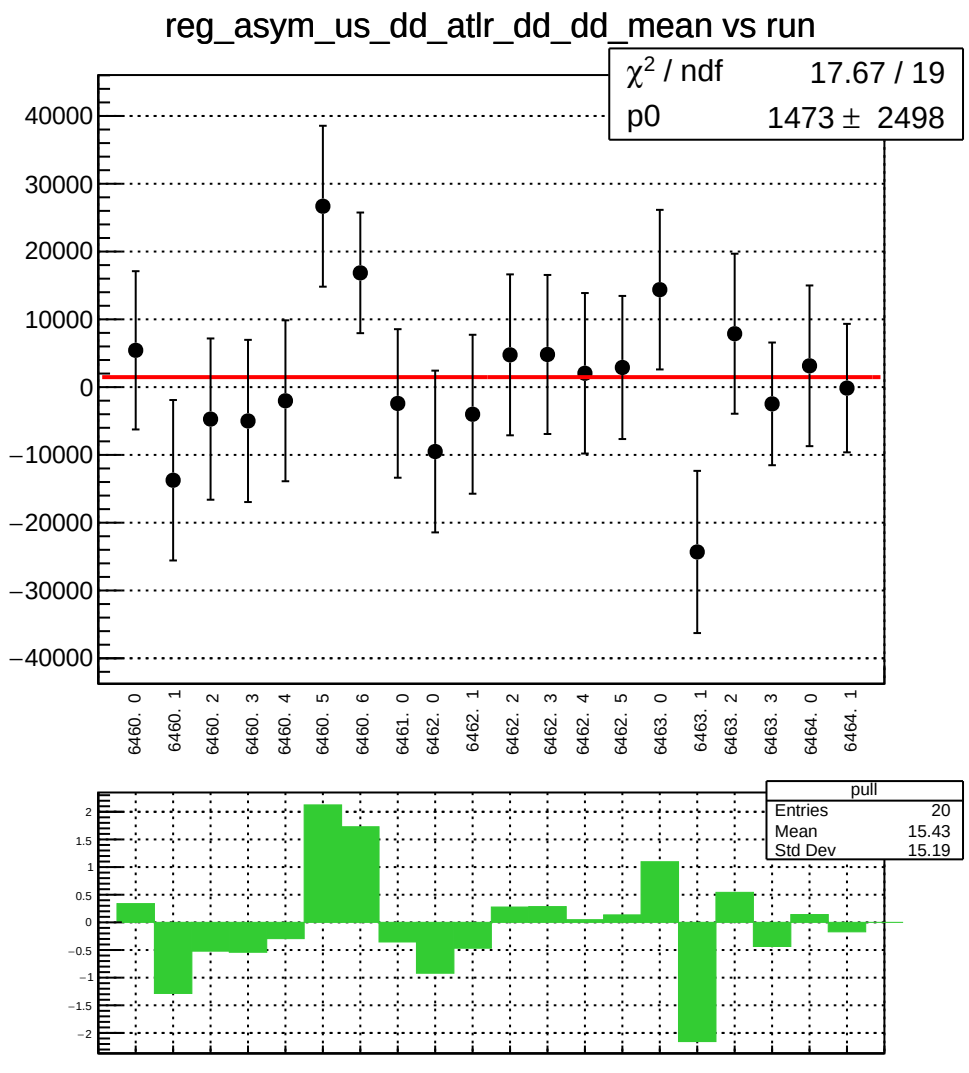

pull1D
Entries 20
Mean 0.09924
Std Dev 0.9493
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

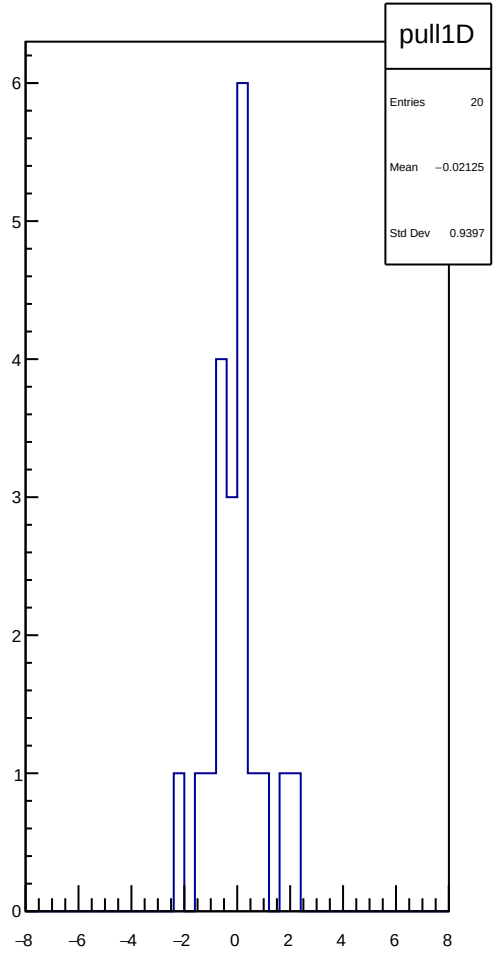

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.105e+04 / 19
p0 33.49 ± 0.05709
80
70
60
50
40
30
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

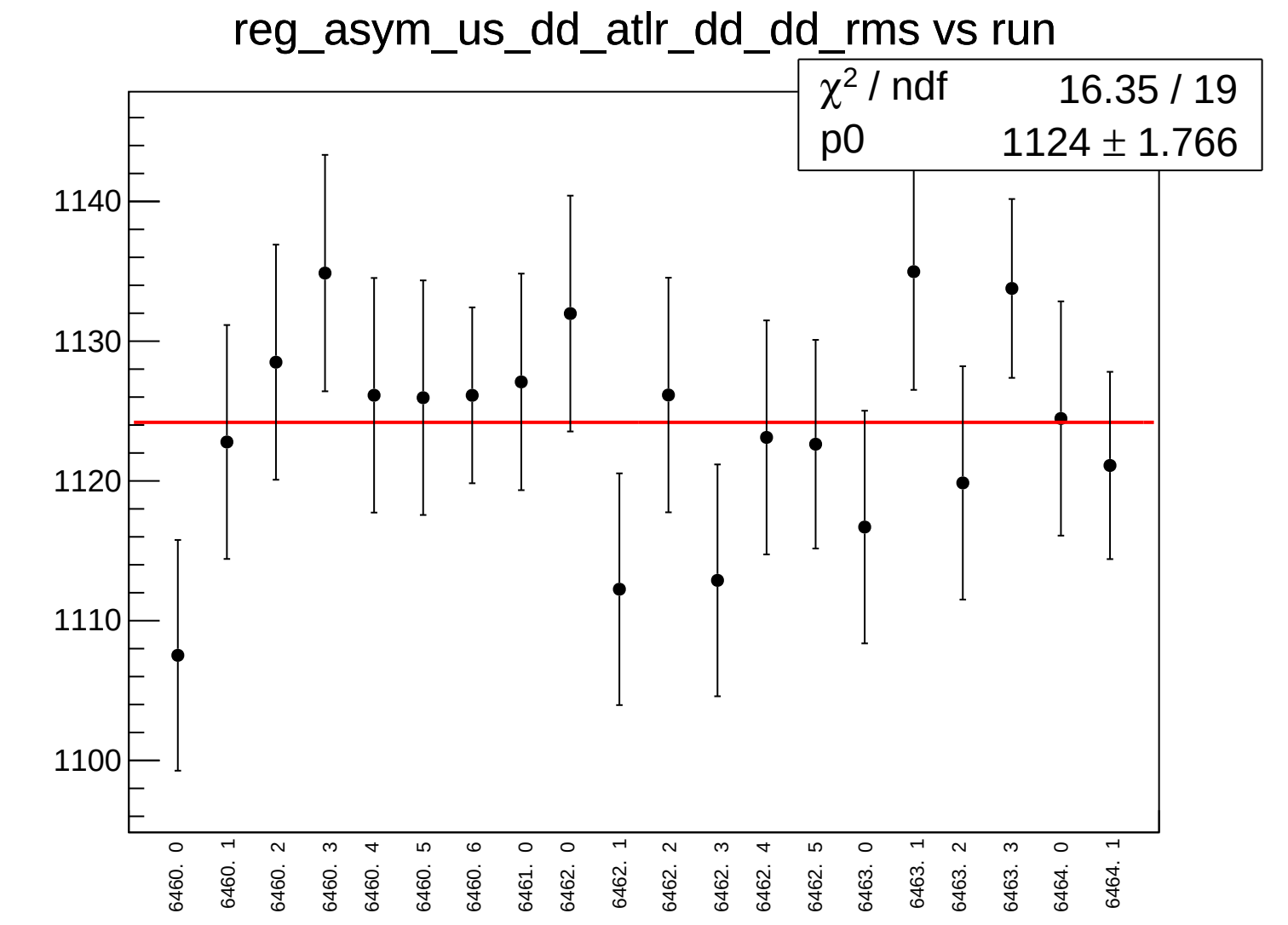

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.03 / 19
p0 2.727e−14 ± 3.587e−14
2
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 0.5449
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

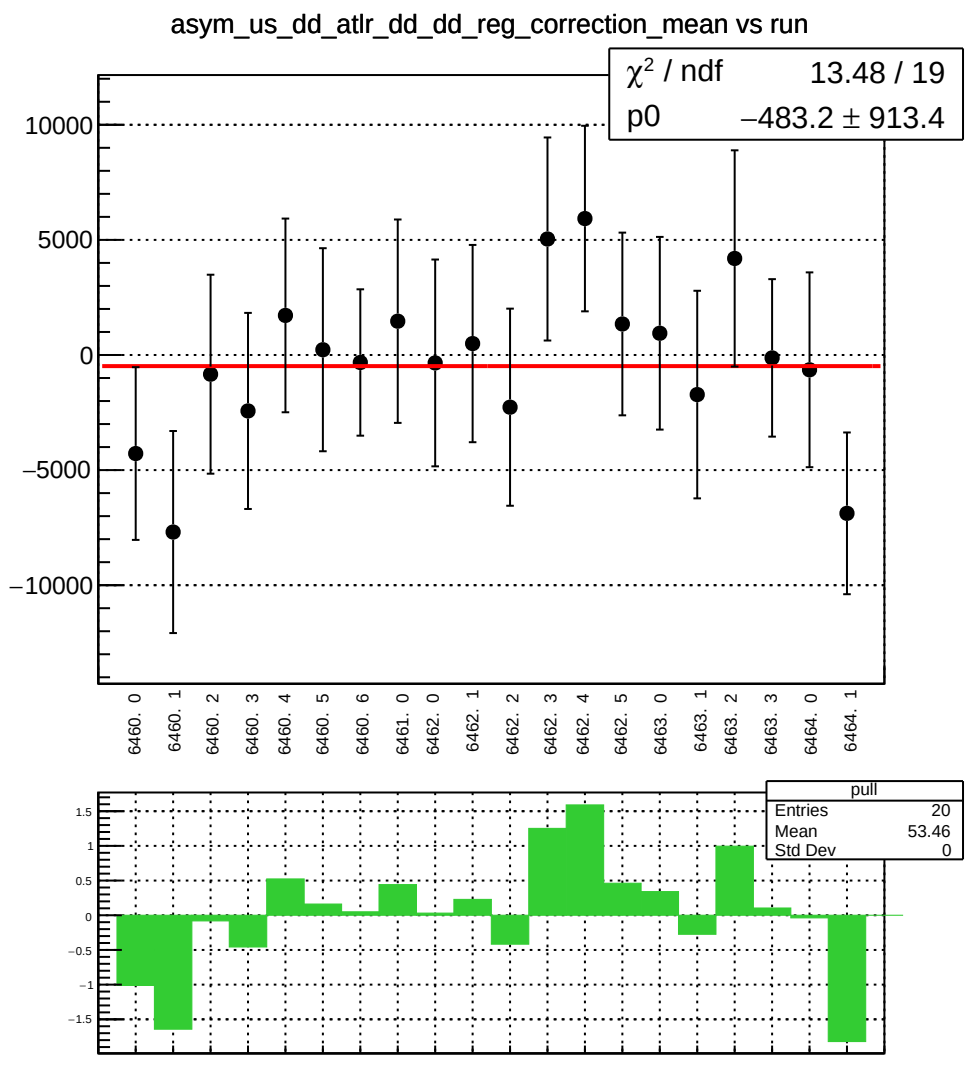

pull1D
Entries 20
Mean 0.1309
Std Dev 1.041
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

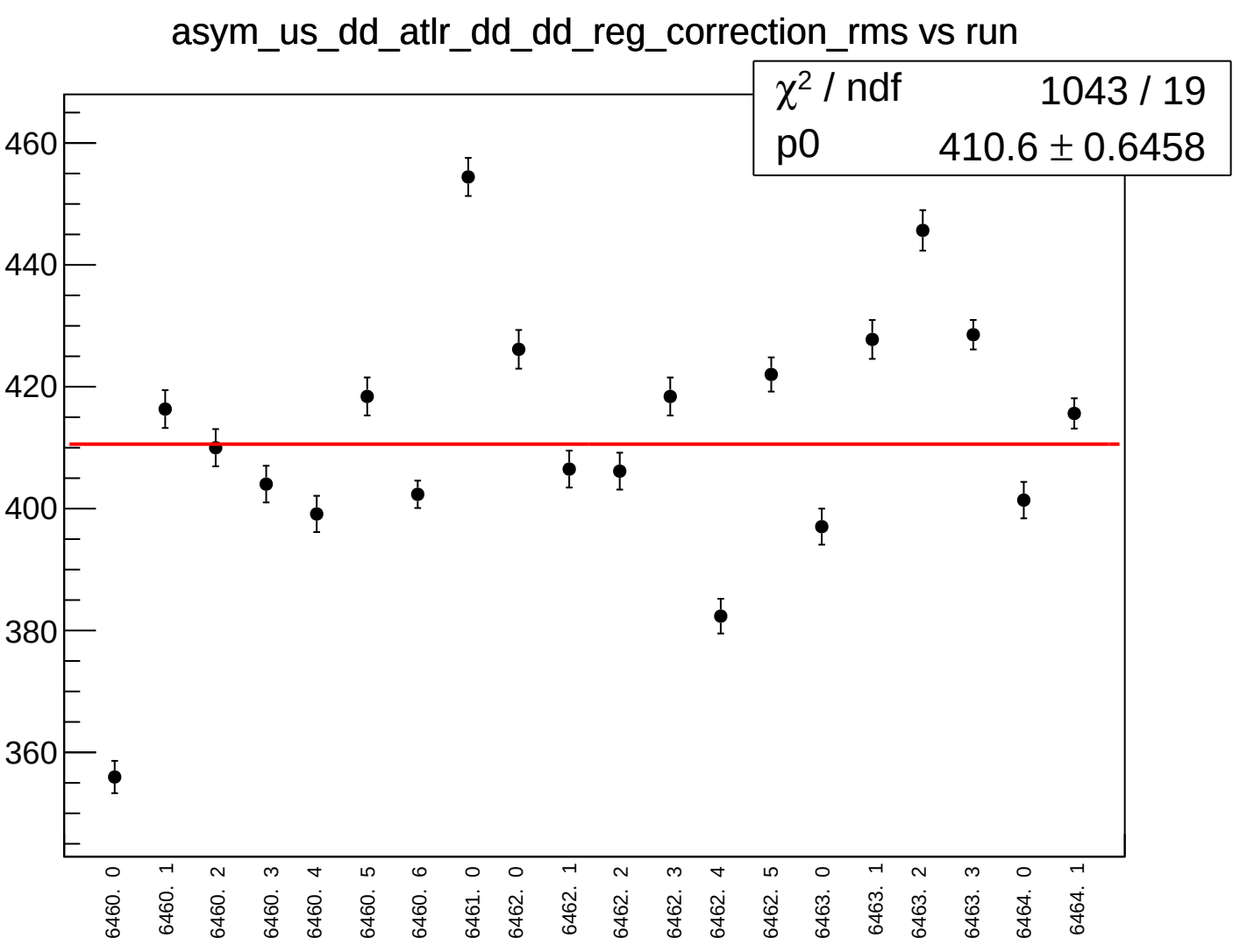

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.67e+04 / 19
p0 1.454e−11 ± 2.536e−14
70
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

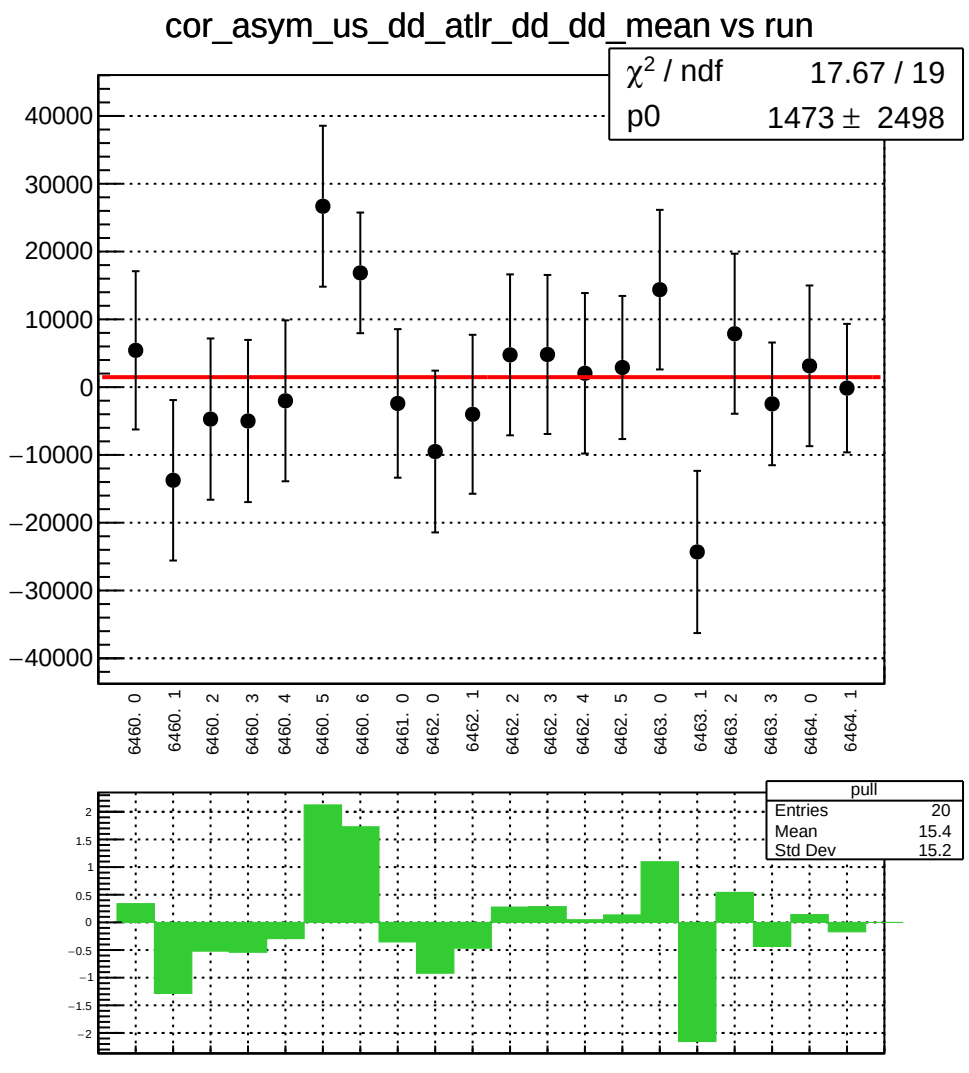

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 17.67 / 19
p0 1473 ± 2498
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.43
Std Dev 15.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

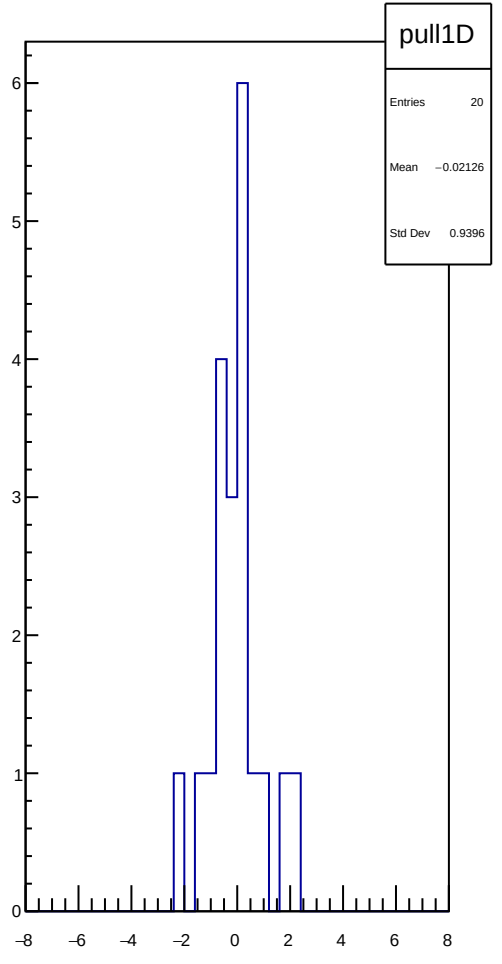

pull1D
Entries 20
Mean −0.02125
Std Dev 0.9397
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

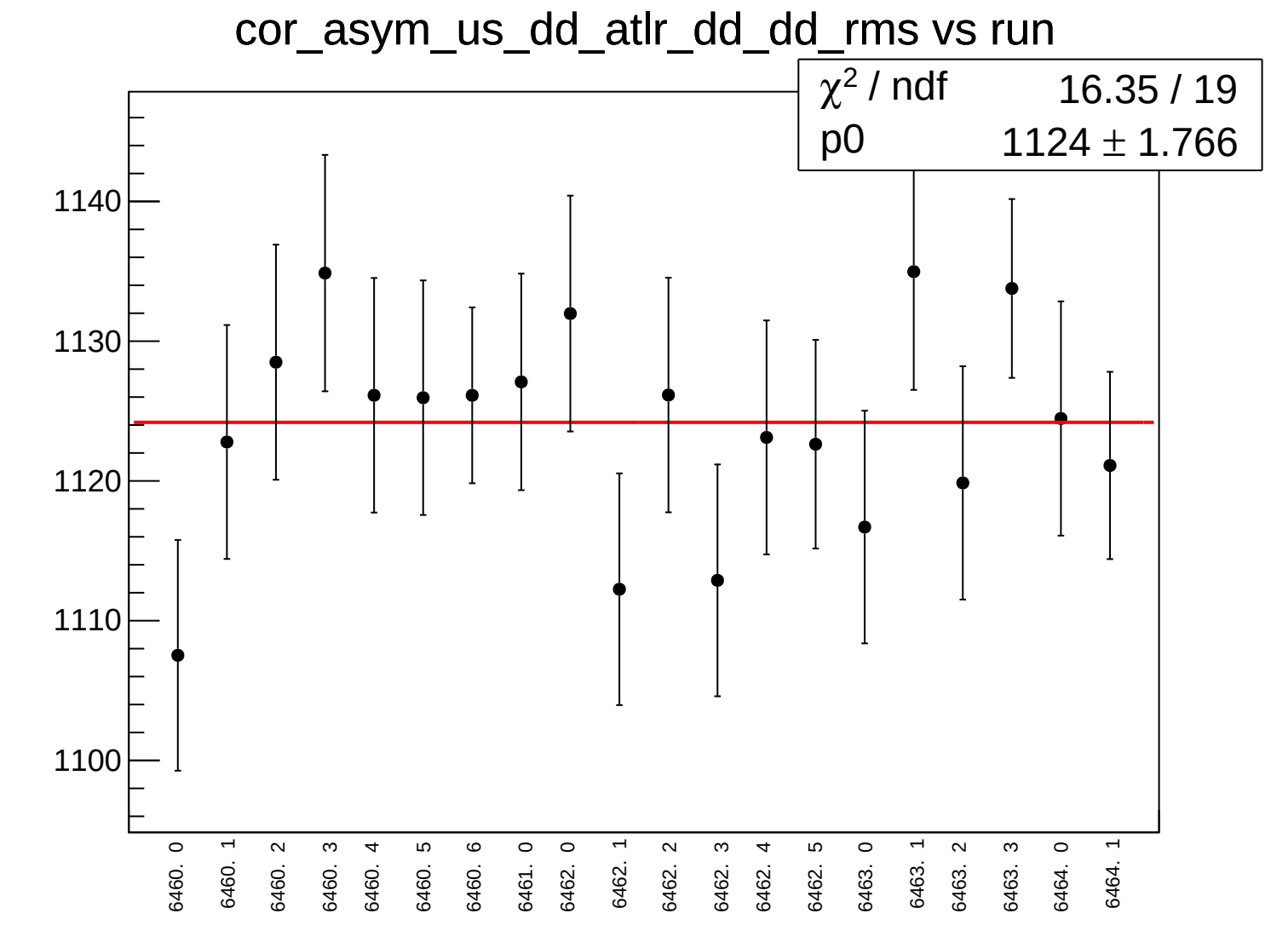

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 16.35 / 19
p0 1124 ± 1.766
1140
1130
1120
1110
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

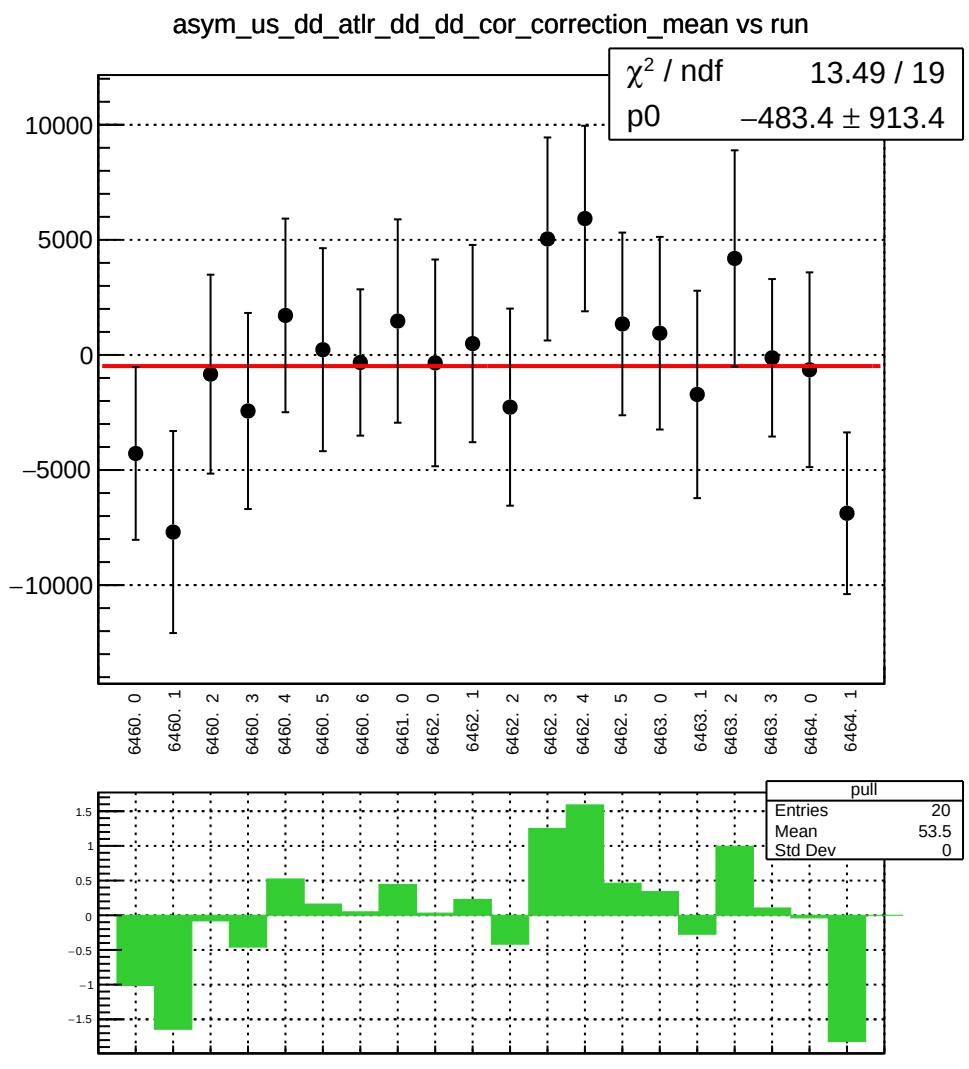

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 13.48 / 19
p0 −483.2 ± 913.4
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 53.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0219
Std Dev 0.8207
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

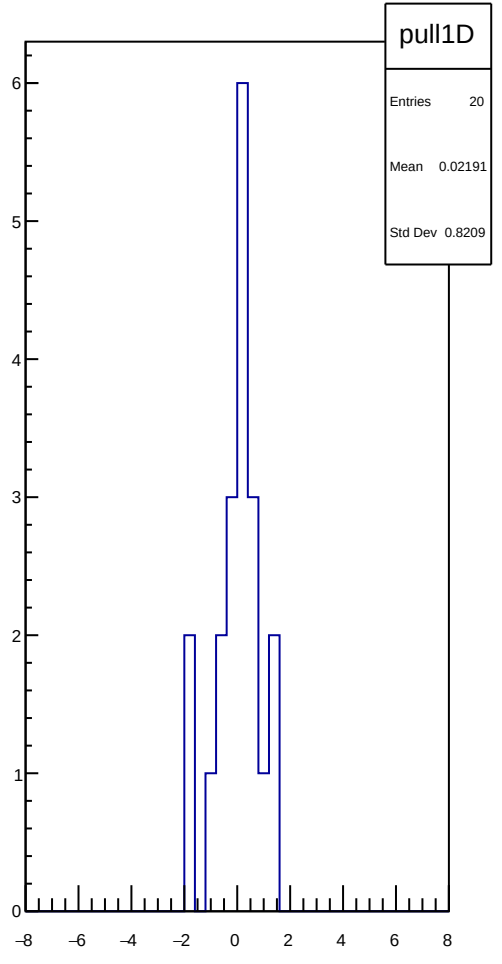

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1043 / 19
p0 410.6 ± 0.6458
460
440
420
400
380
360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

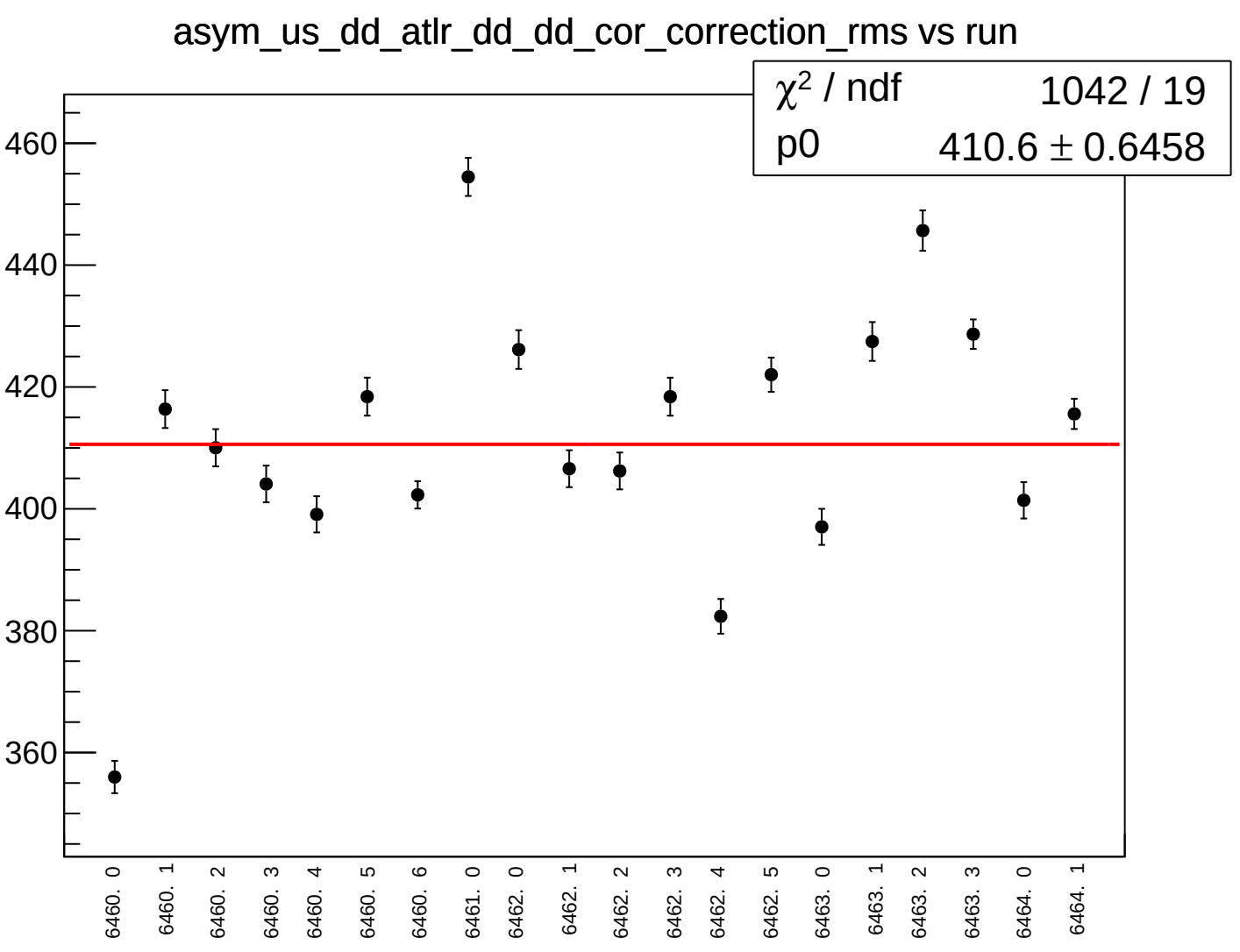

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 17.67 / 19
p0 1473 ± 2498
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.4
Std Dev 15.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

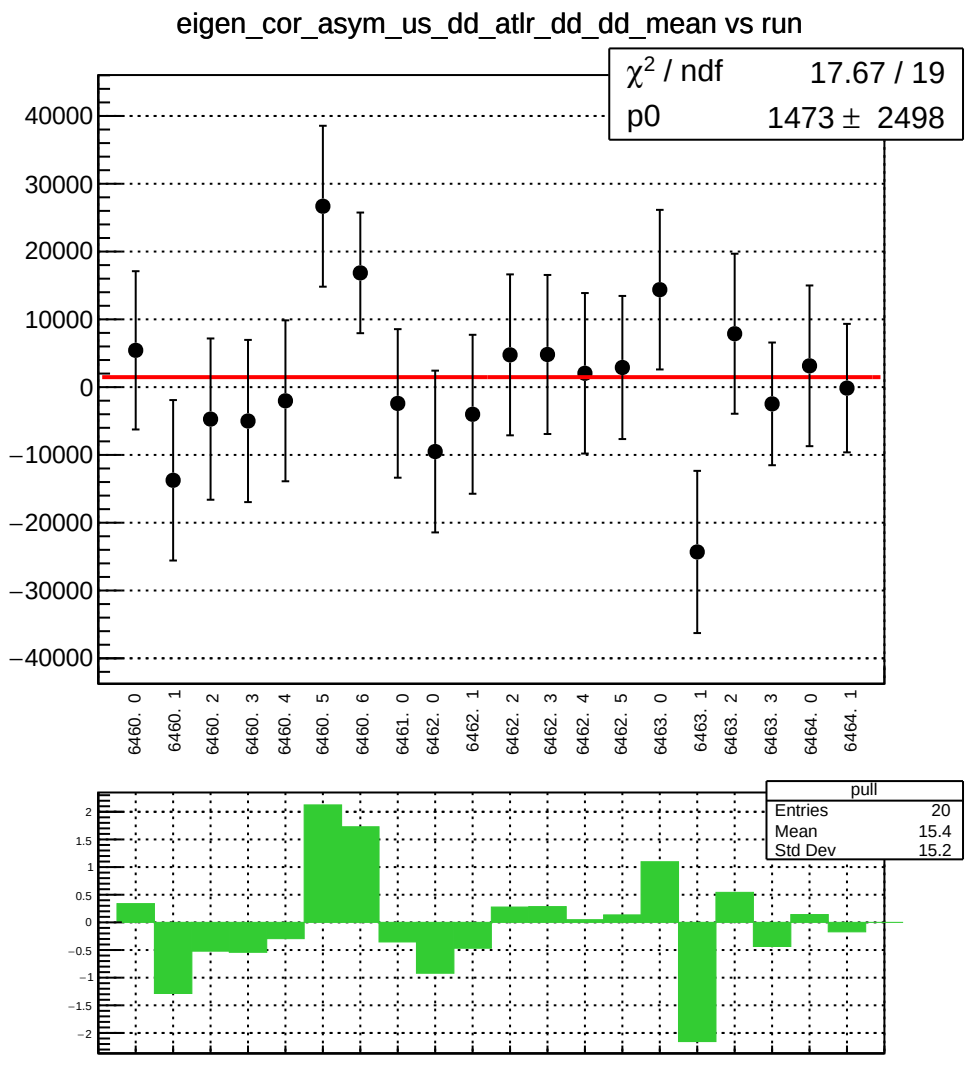

pull1D
Entries 20
Mean −0.02126
Std Dev 0.9396
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

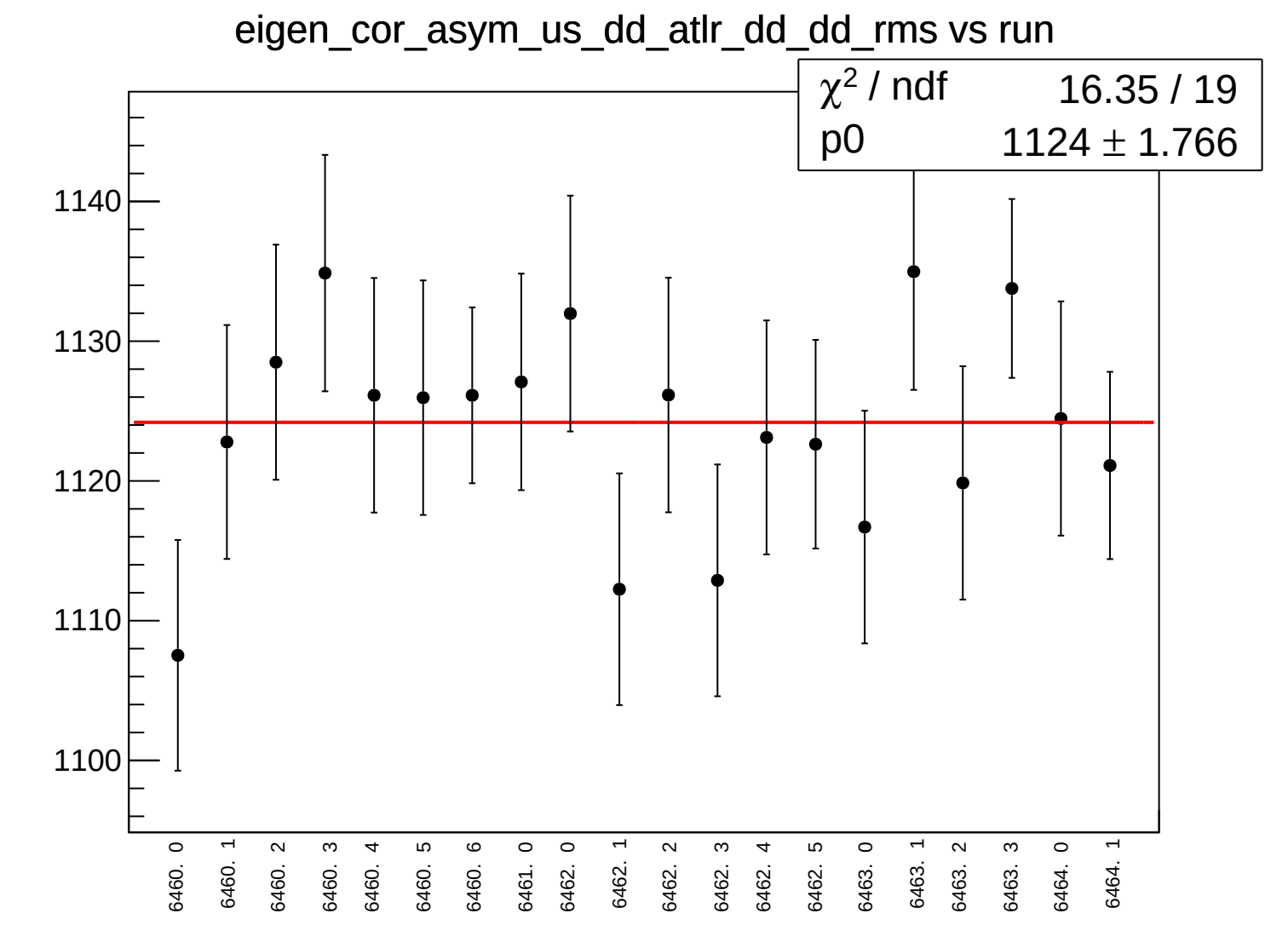

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 16.35 / 19
p0 1124 ± 1.766
1140
1130
1120
1110
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

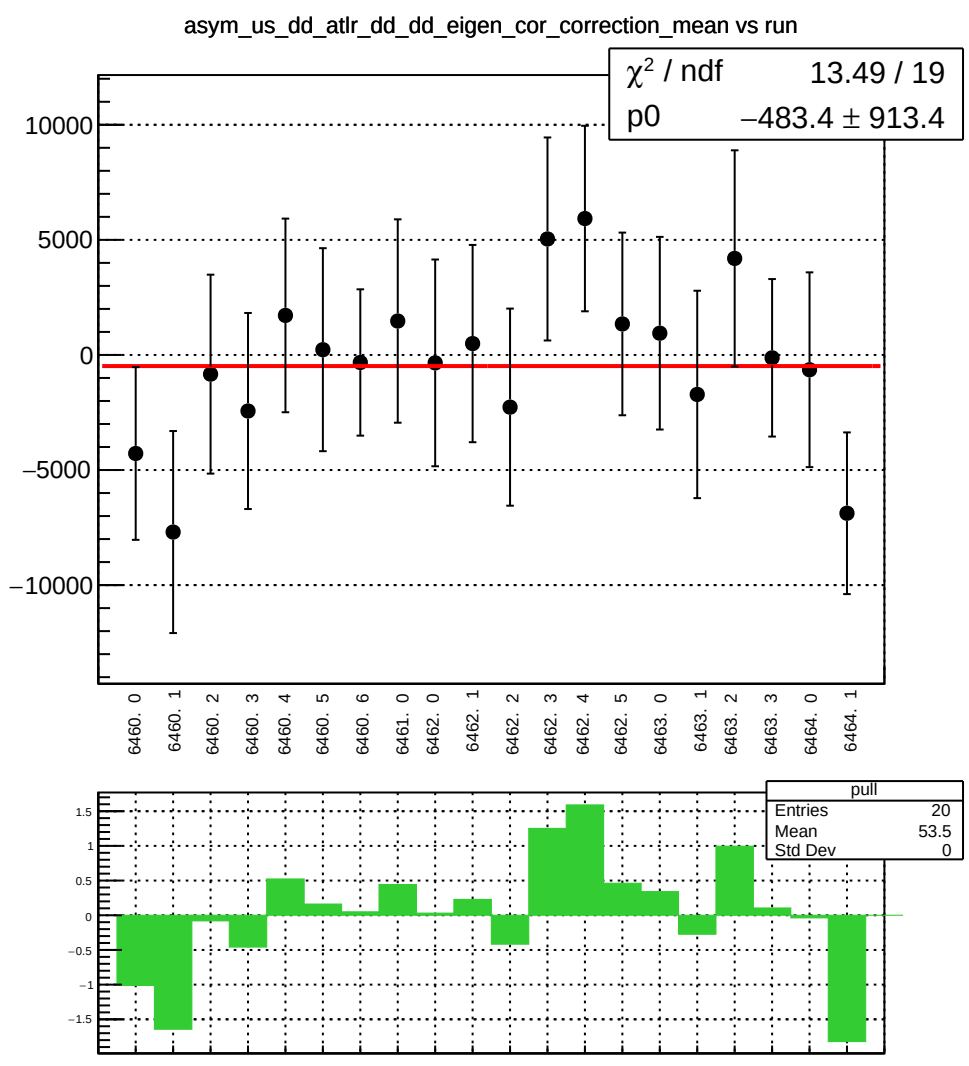

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 13.49 / 19
p0 −483.4 ± 913.4
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 53.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

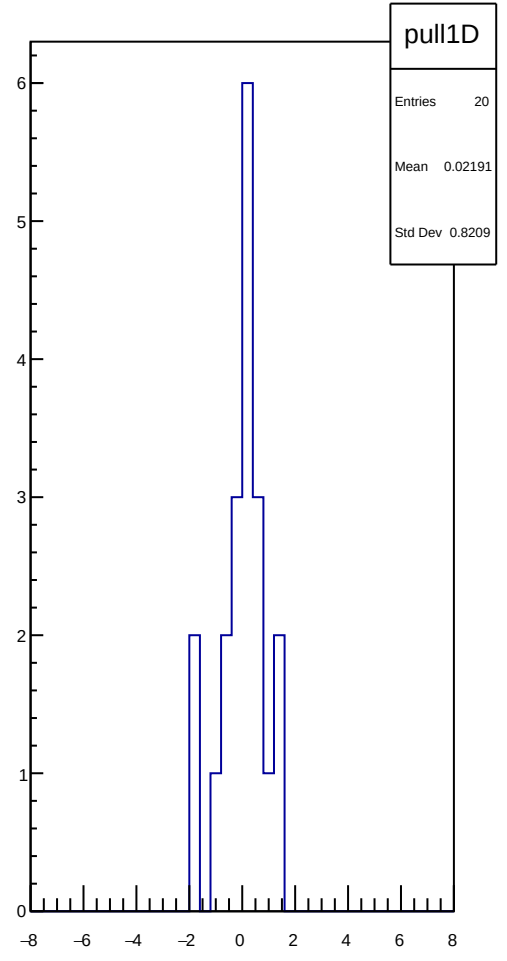

pull1D
Entries 20
Mean 0.02191
Std Dev 0.8209
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

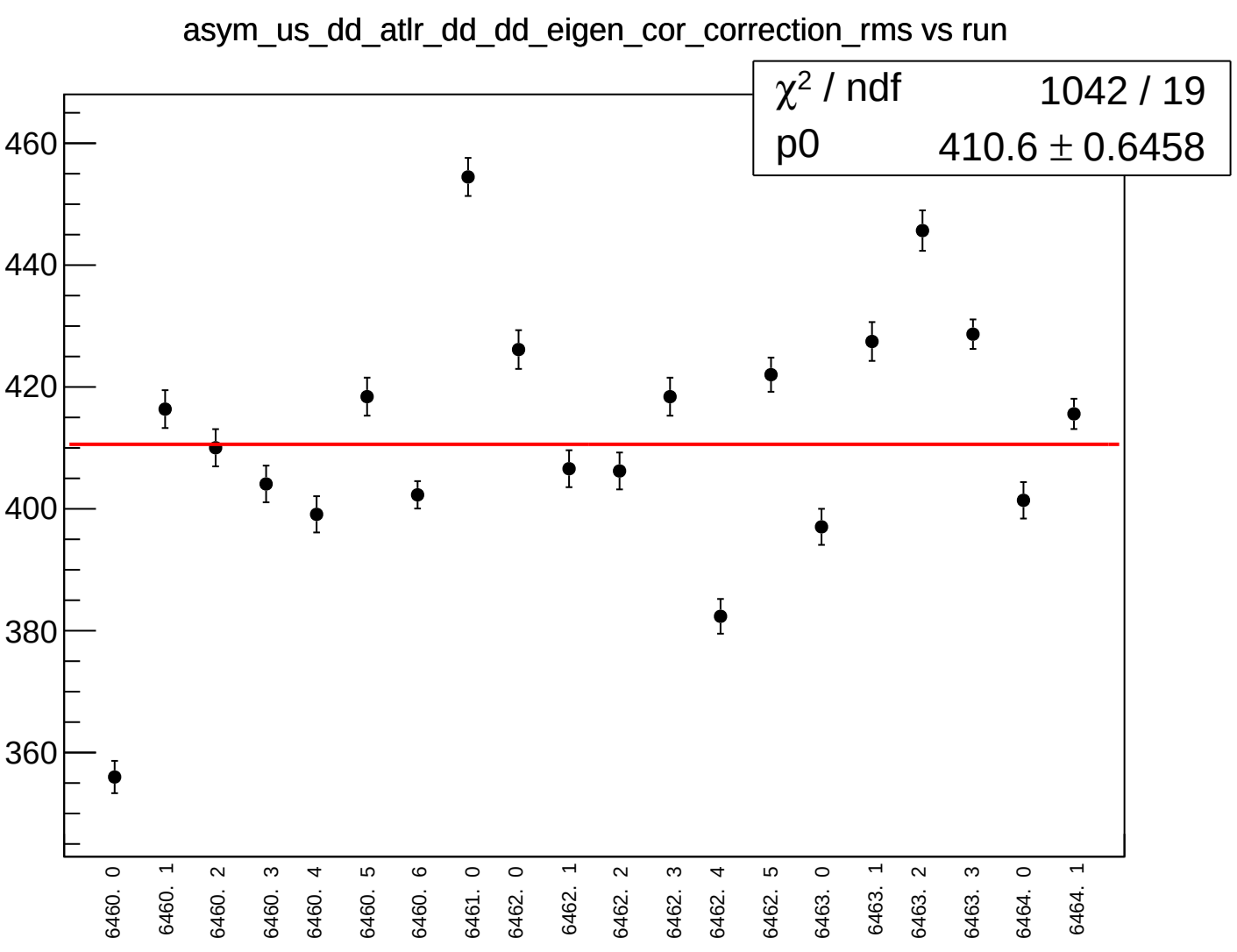

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1042 / 19
p0 410.6 ± 0.6458
460
440
420
400
380
360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

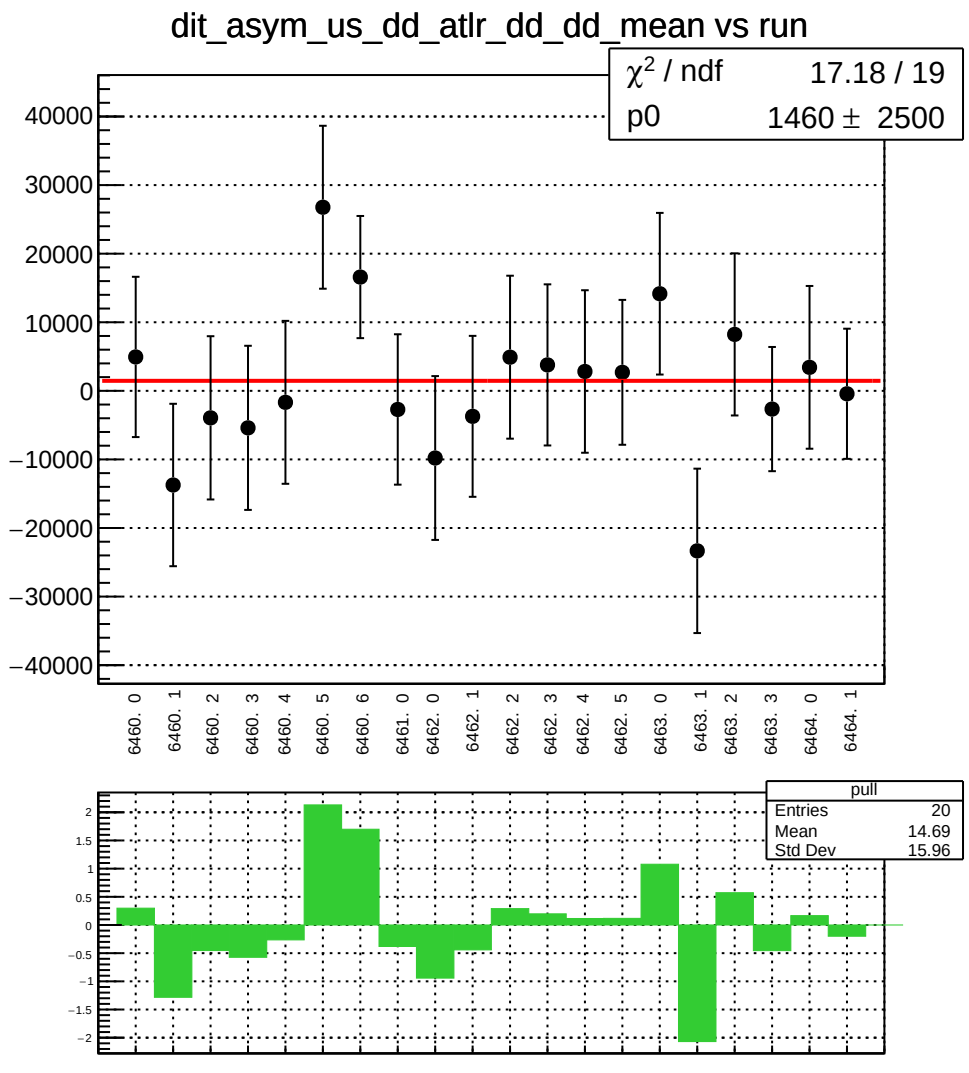

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 17.67 / 19
p0 1473 ± 2498
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.4
Std Dev 15.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.02126
Std Dev 0.9396
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

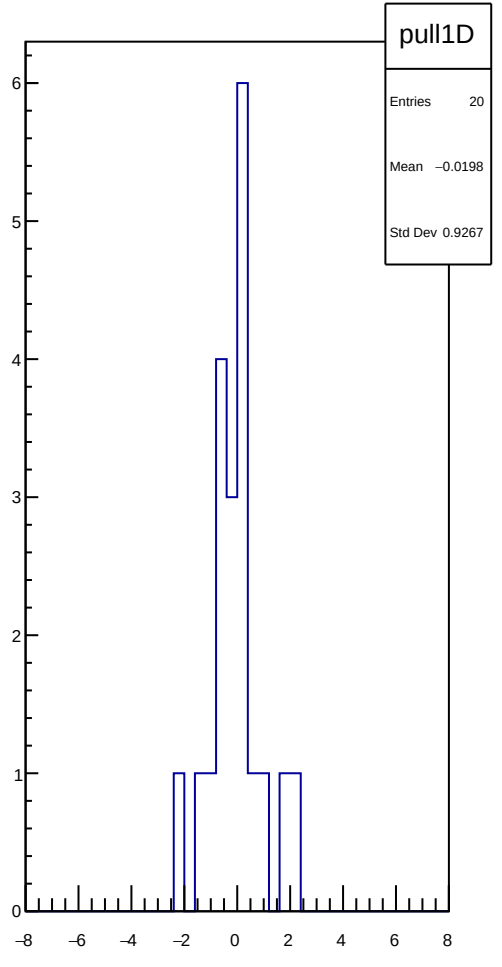

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 16.35 / 19
p0 1124 ± 1.766
1140
1130
1120
1110
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

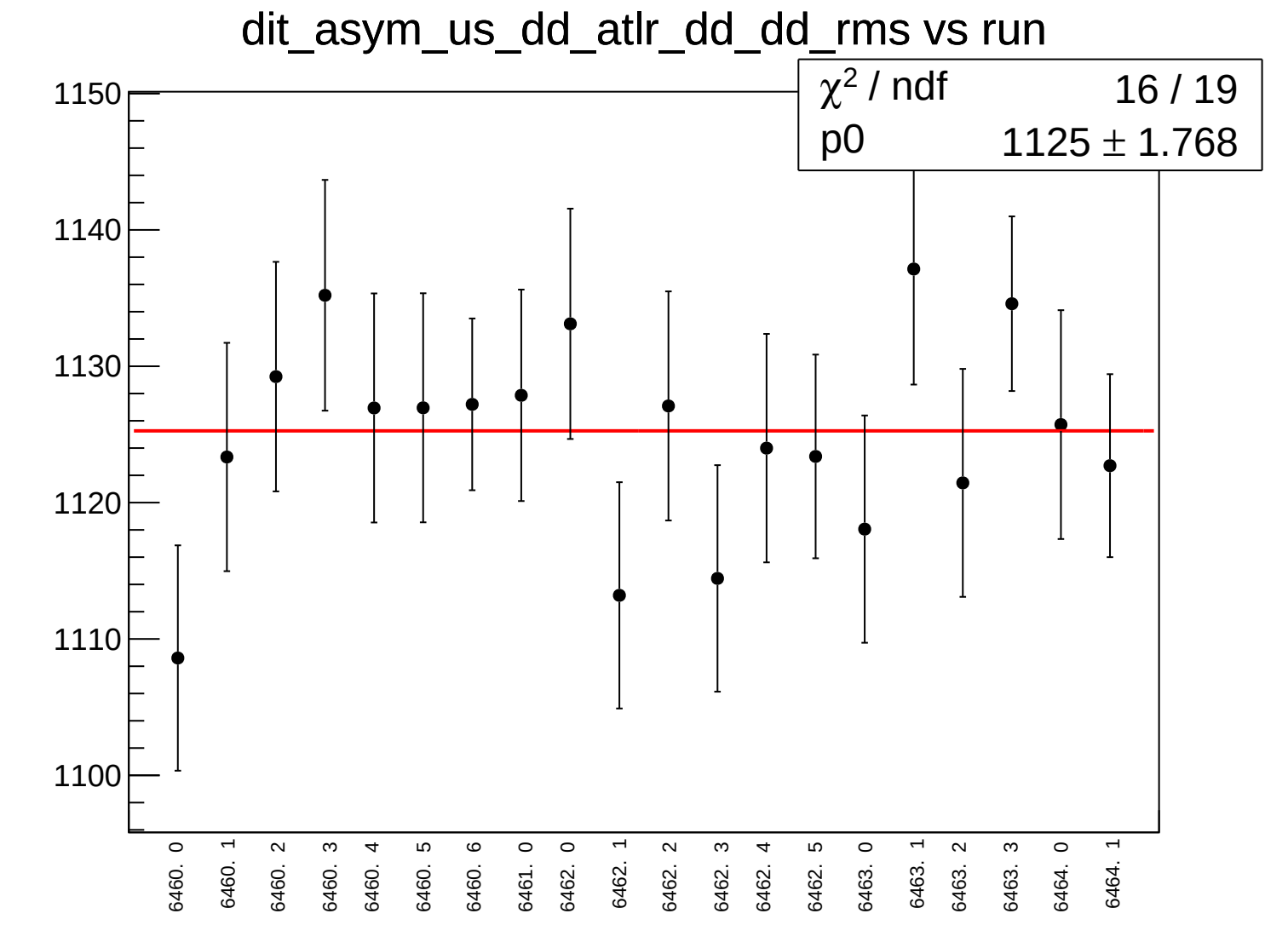

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 13.49 / 19
p0 −483.4 ± 913.4
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 53.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

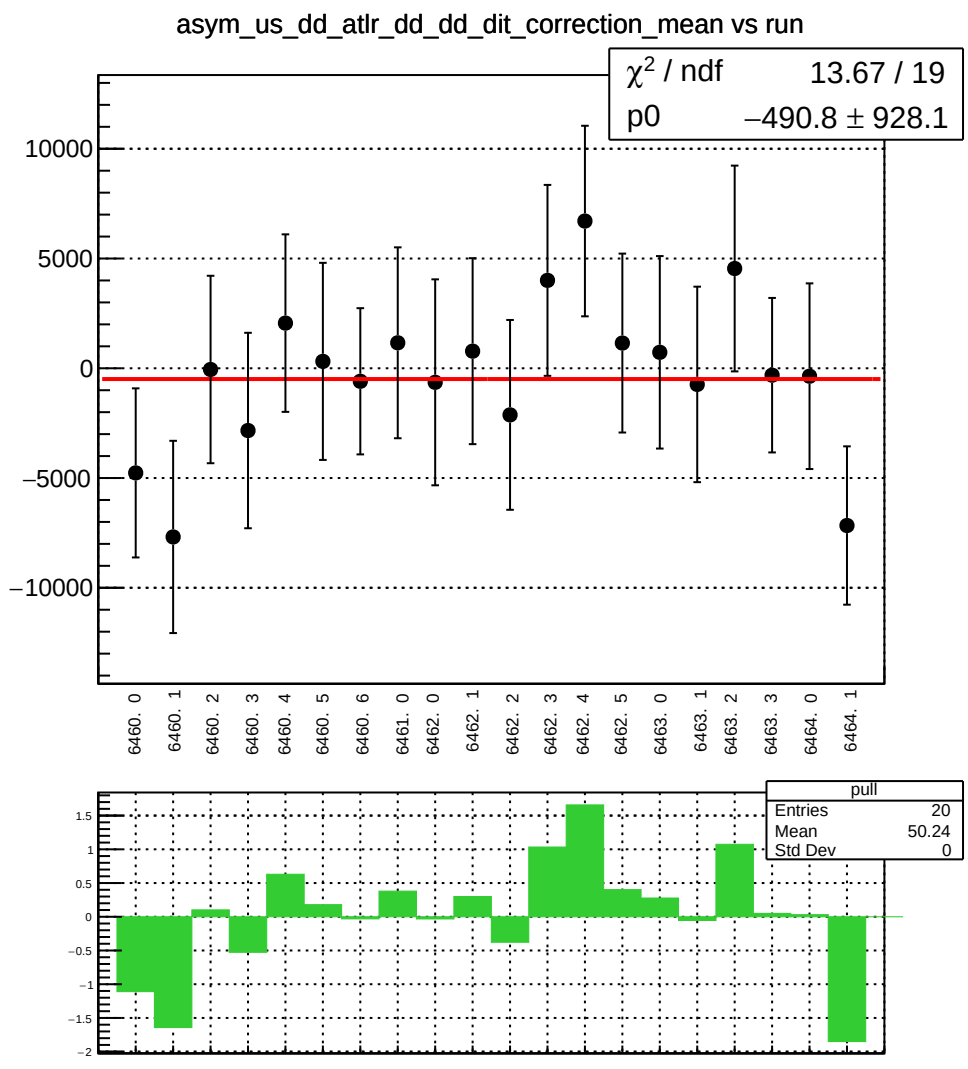

pull1D
Entries 20
Mean 0.02191
Std Dev 0.8209
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

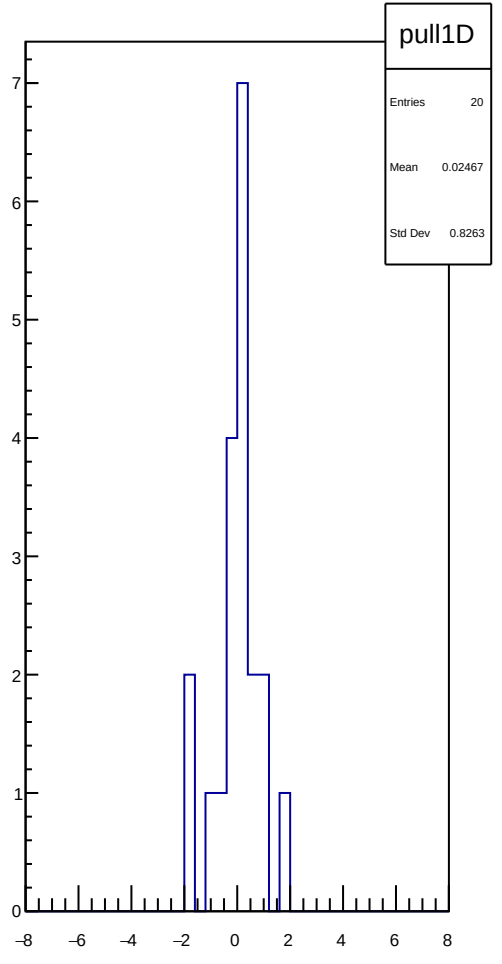

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1042 / 19
p0 410.6 ± 0.6458
460
440
420
400
380
360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

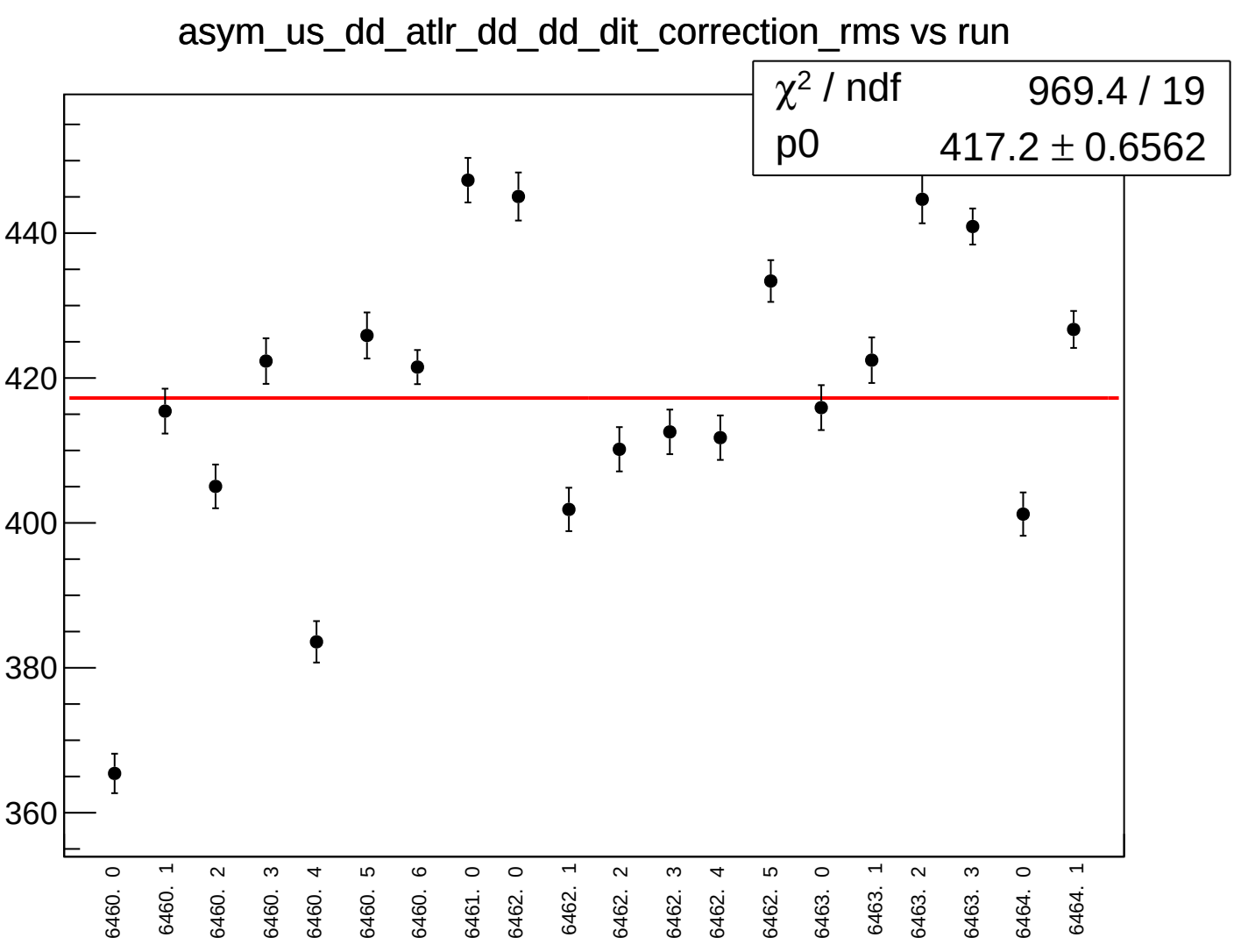

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 17.18 / 19
p0 1460 ± 2500
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 14.69
Std Dev 15.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

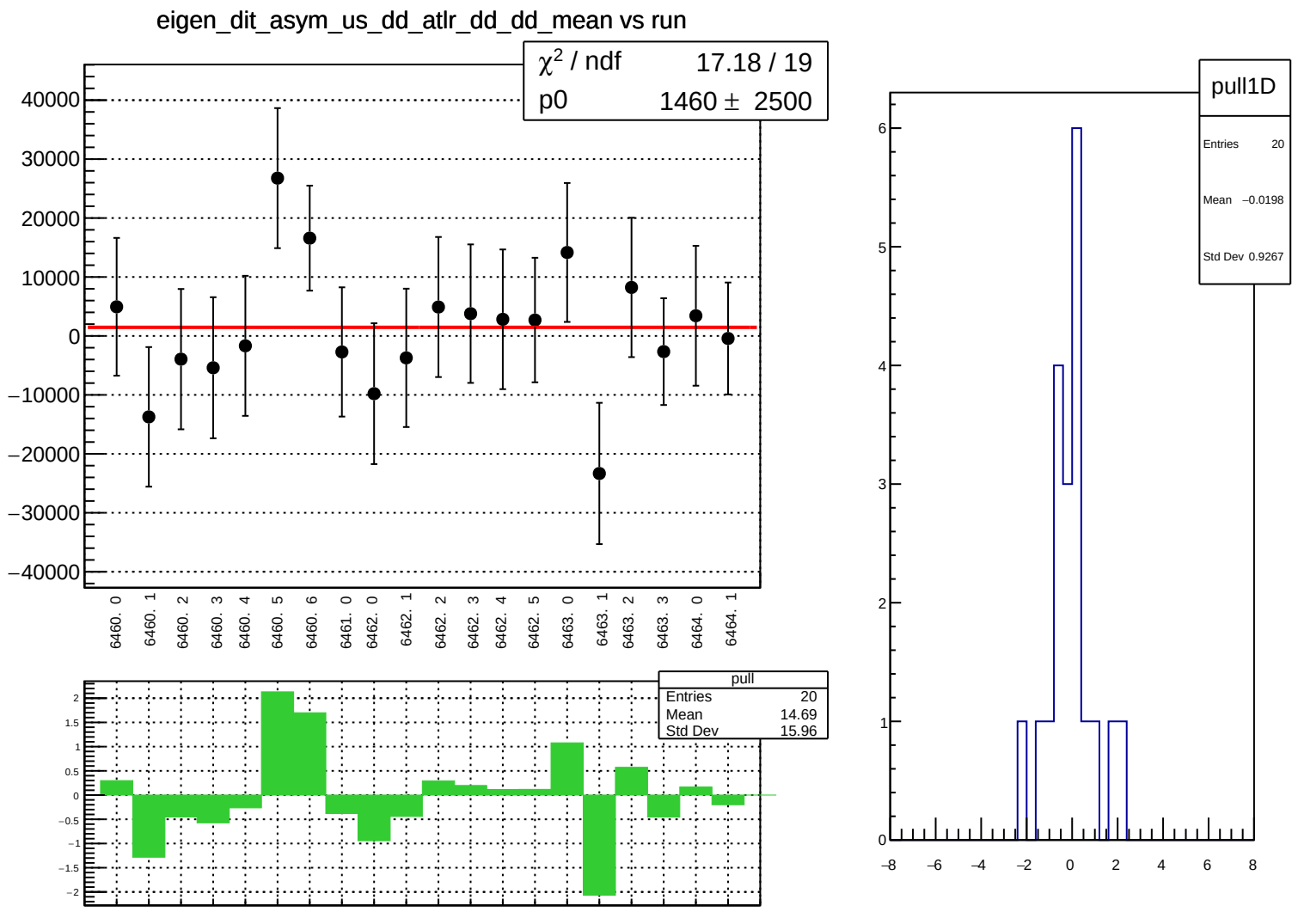

pull1D
Entries 20
Mean −0.0198
Std Dev 0.9267
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

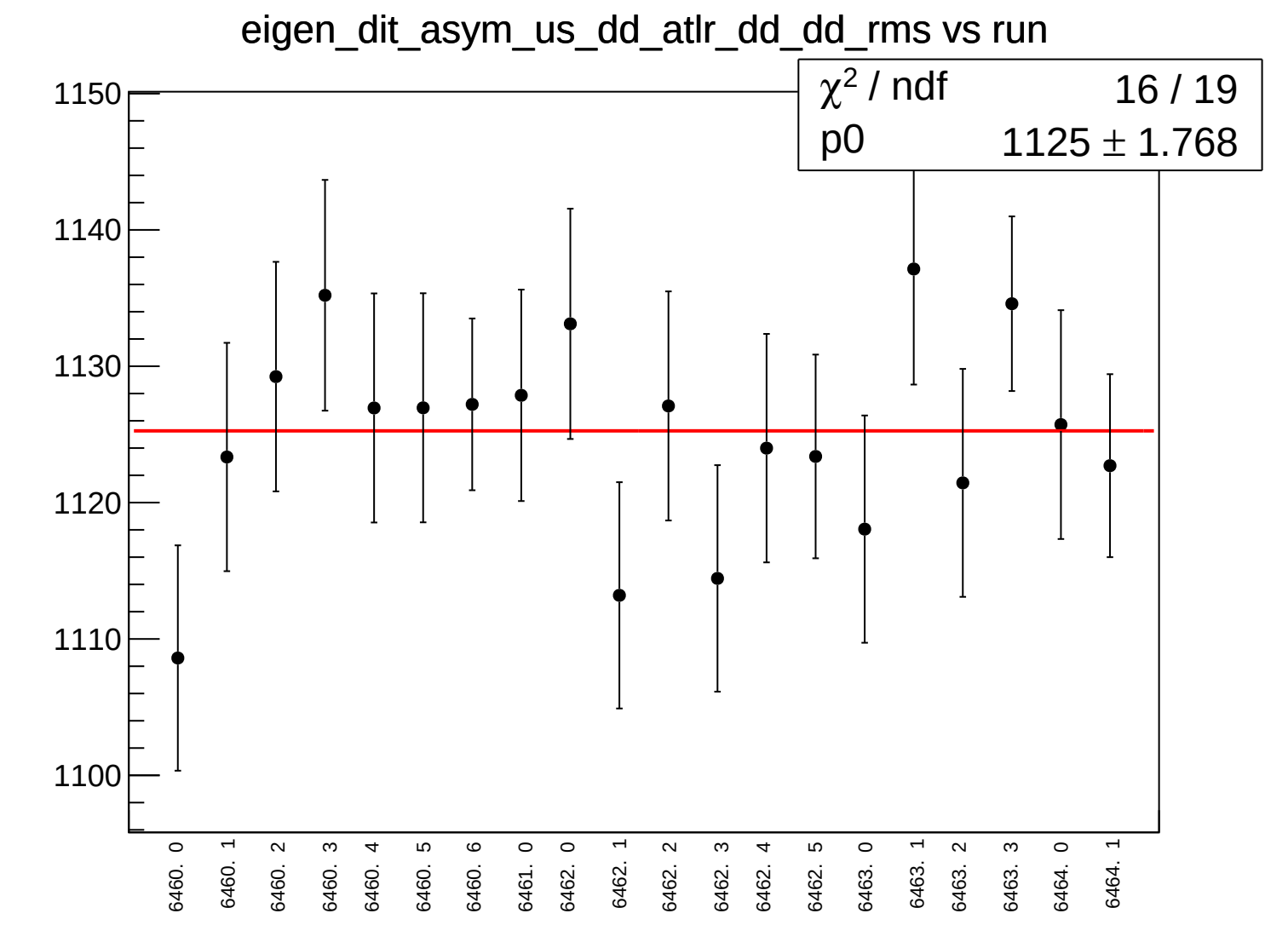

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 16 / 19
p0 1125 ± 1.768
1150
1140
1130
1120
1110
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

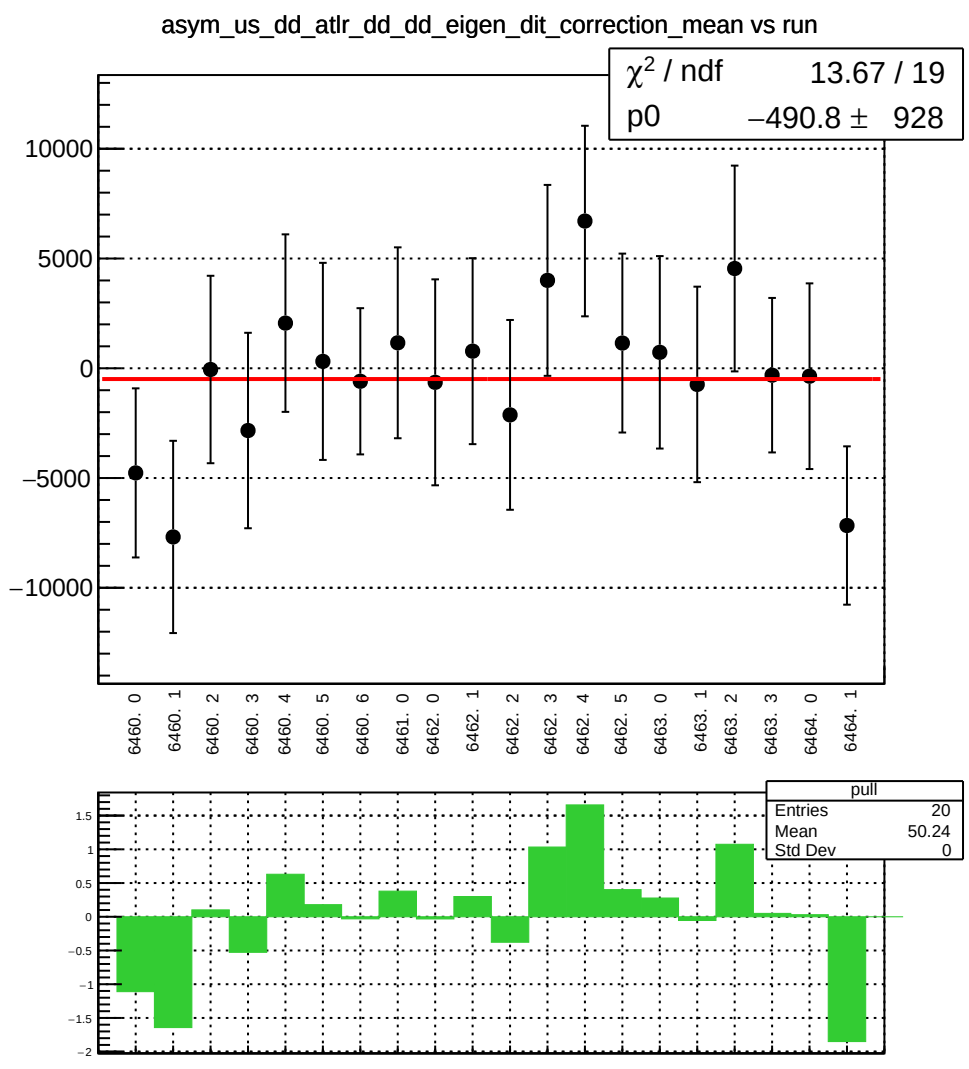

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 13.67 / 19
p0 −490.8 ± 928.1
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 50.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

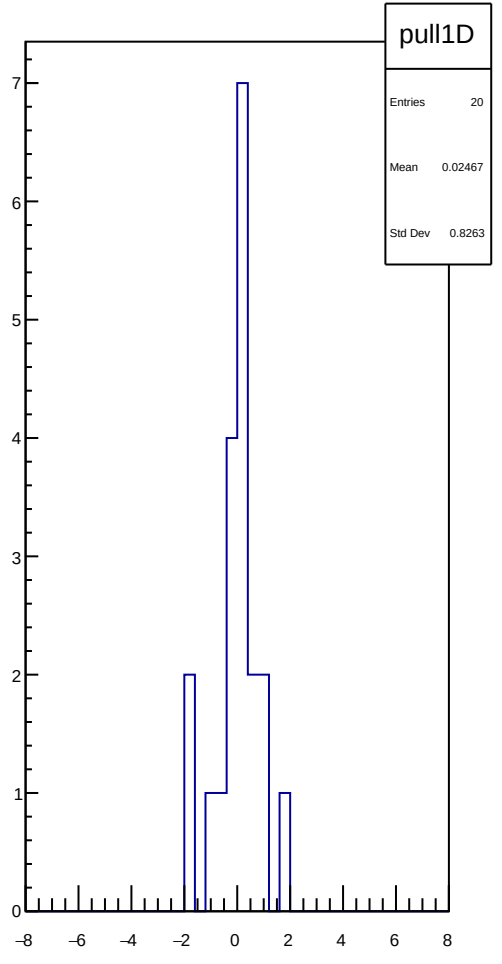

pull1D
Entries 20
Mean 0.02467
Std Dev 0.8263
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

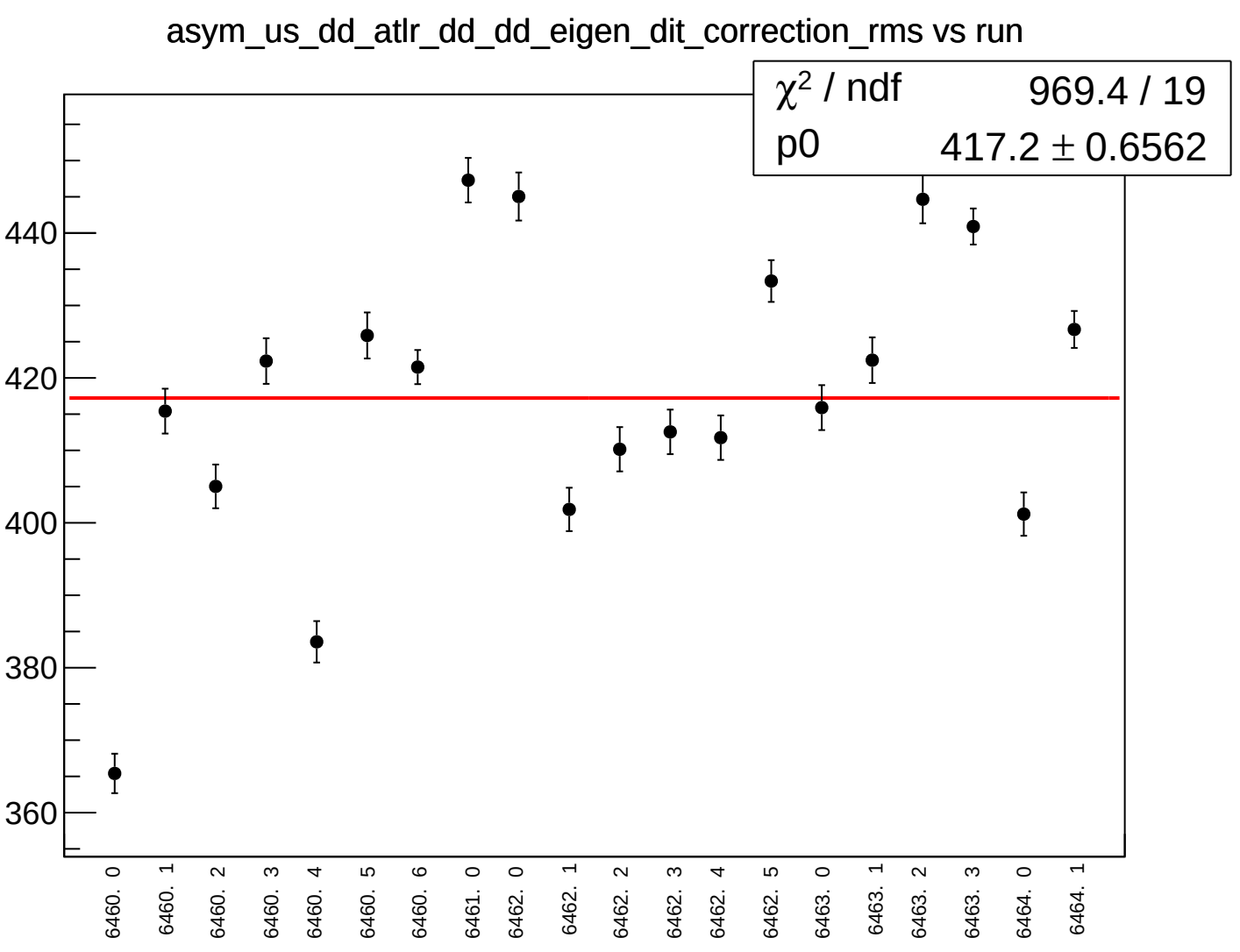

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 969.4 / 19
p0 417.2 ± 0.6562
440
420
400
380
360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

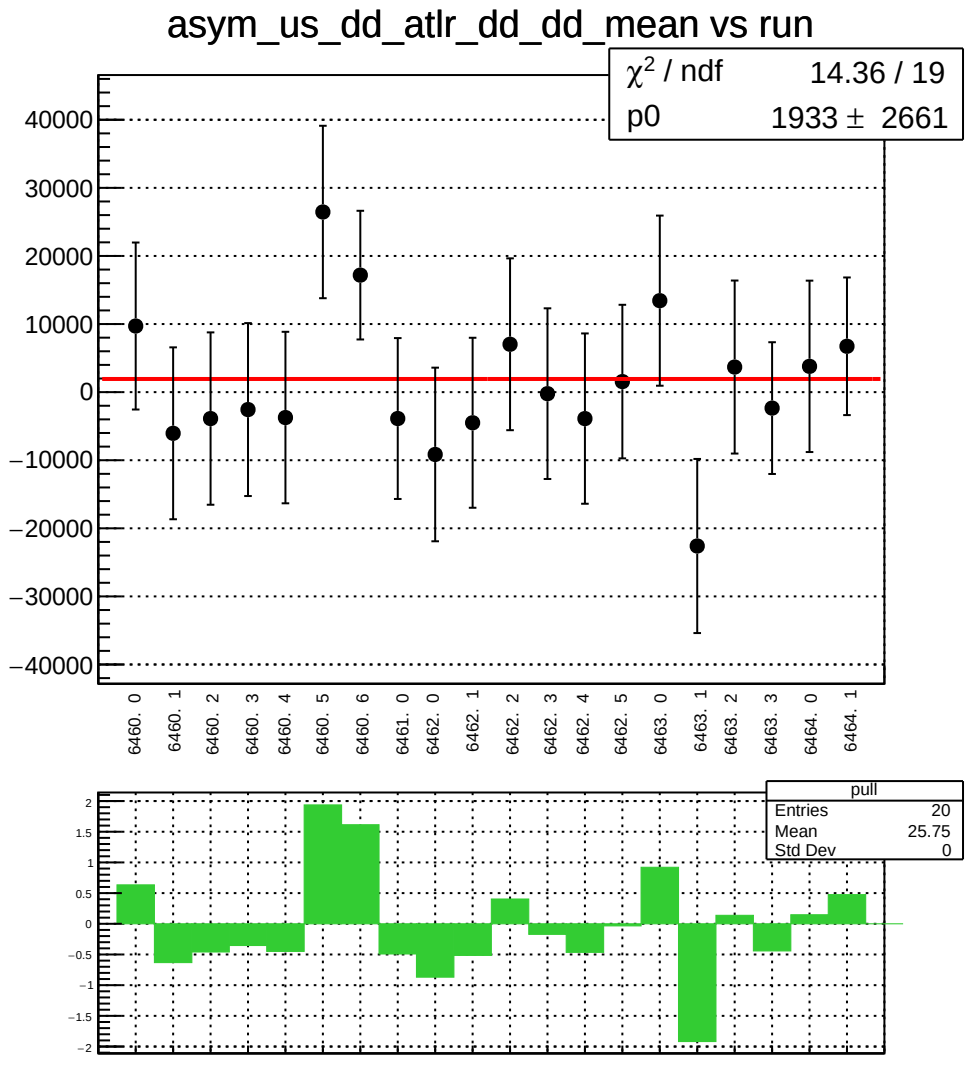

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 17.18 / 19
p0 1460 ± 2500
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 14.69
Std Dev 15.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.0198
Std Dev 0.9267
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

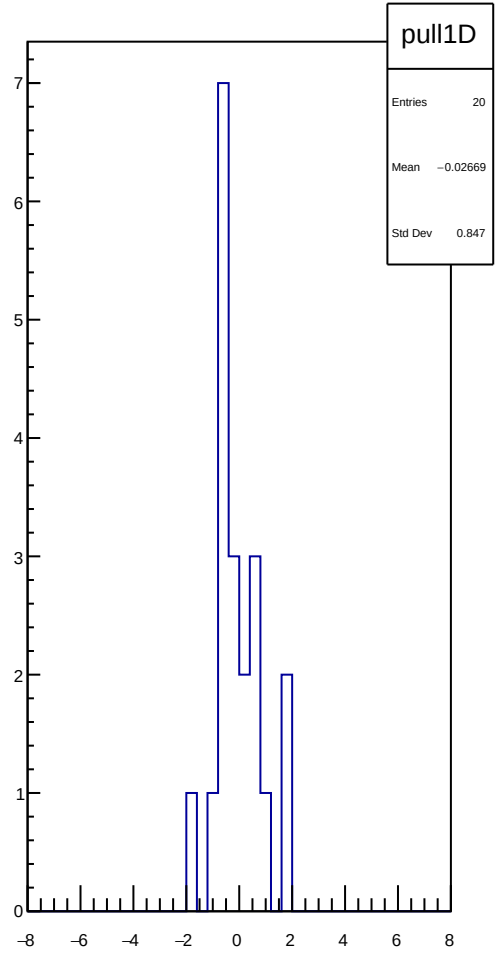

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 16 / 19
p0 1125 ± 1.768
1150
1140
1130
1120
1110
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

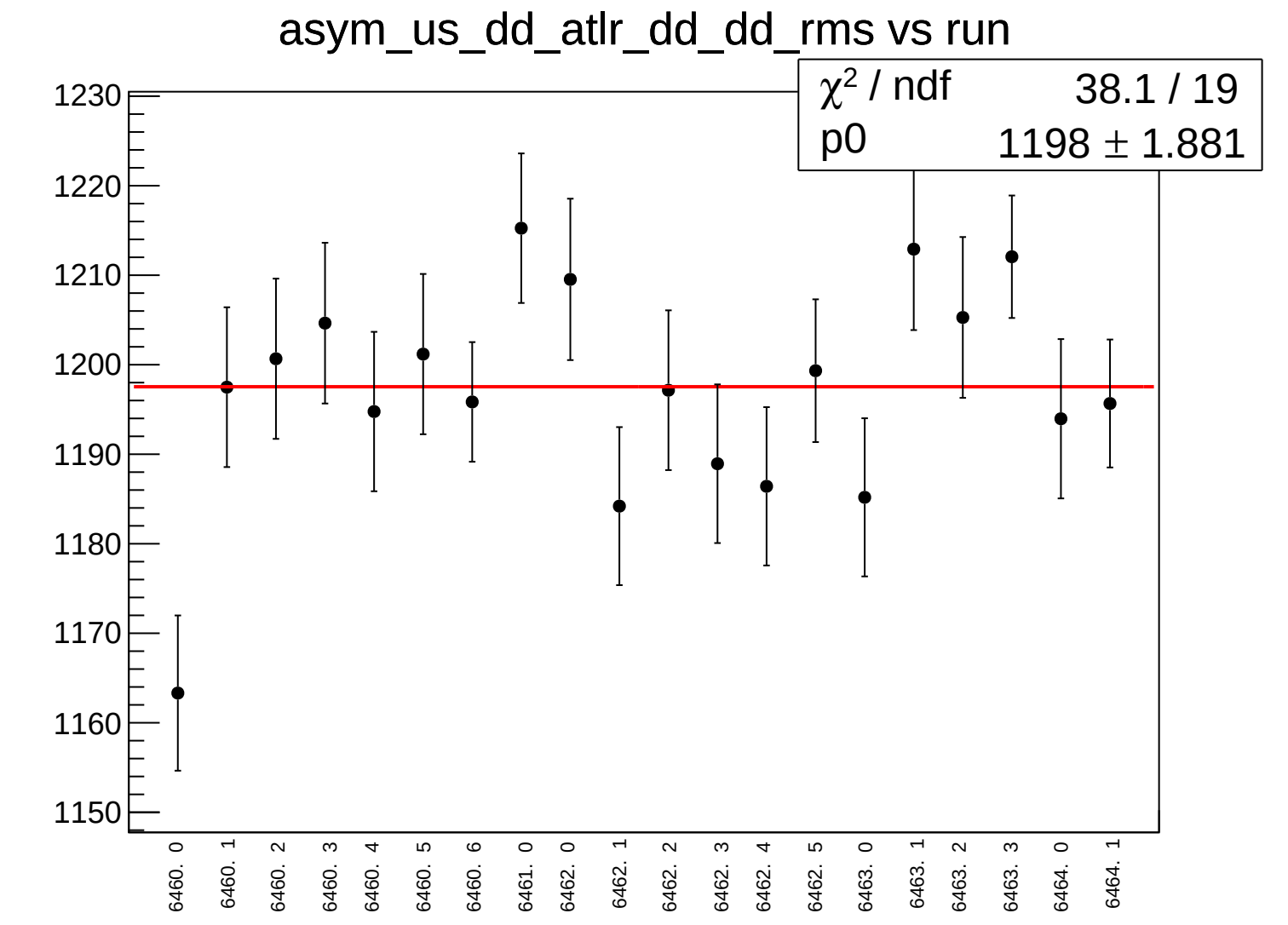

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 13.67 / 19
p0 −490.8 ± 928
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 50.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

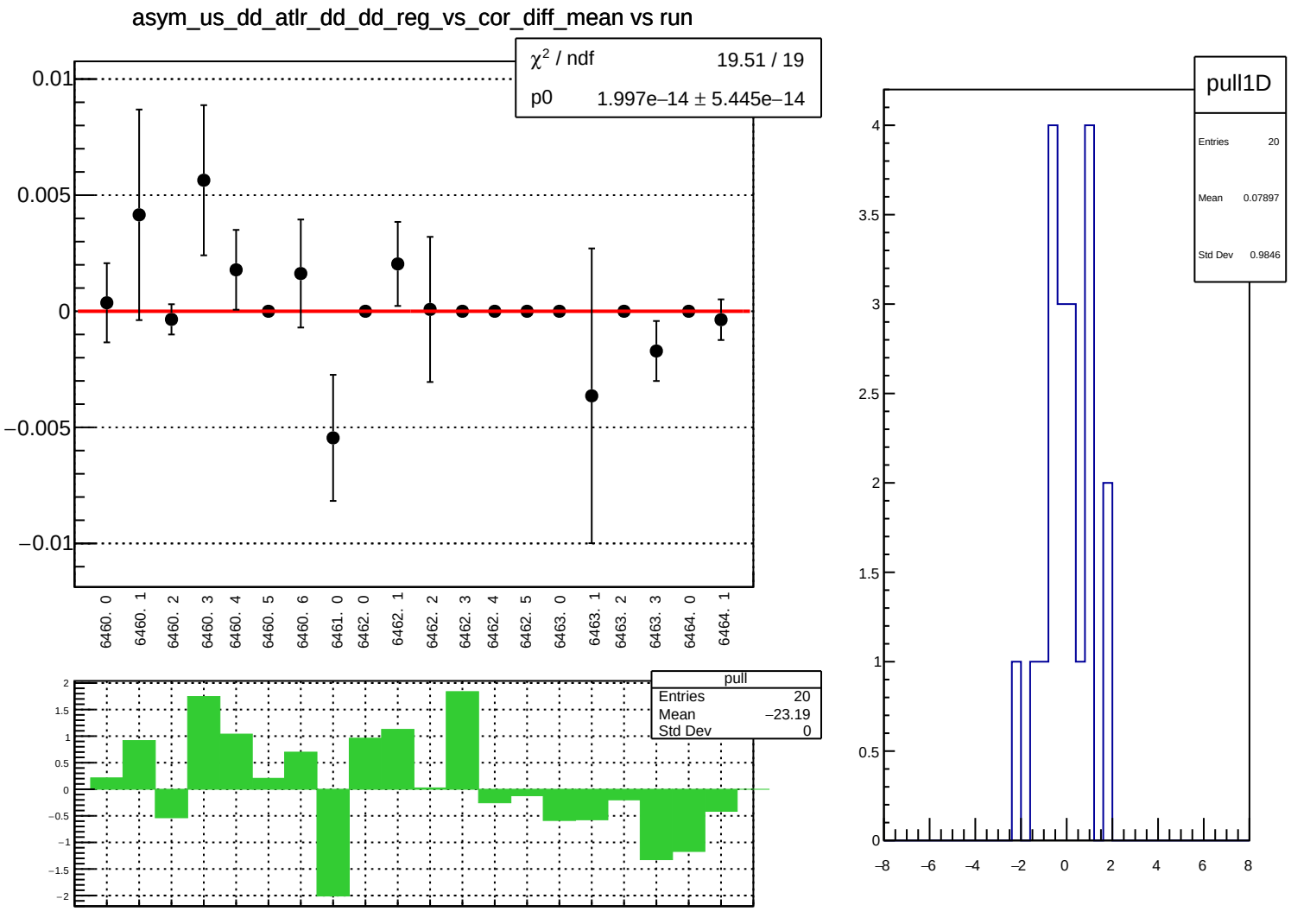

pull1D
Entries 20
Mean 0.02467
Std Dev 0.8263
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

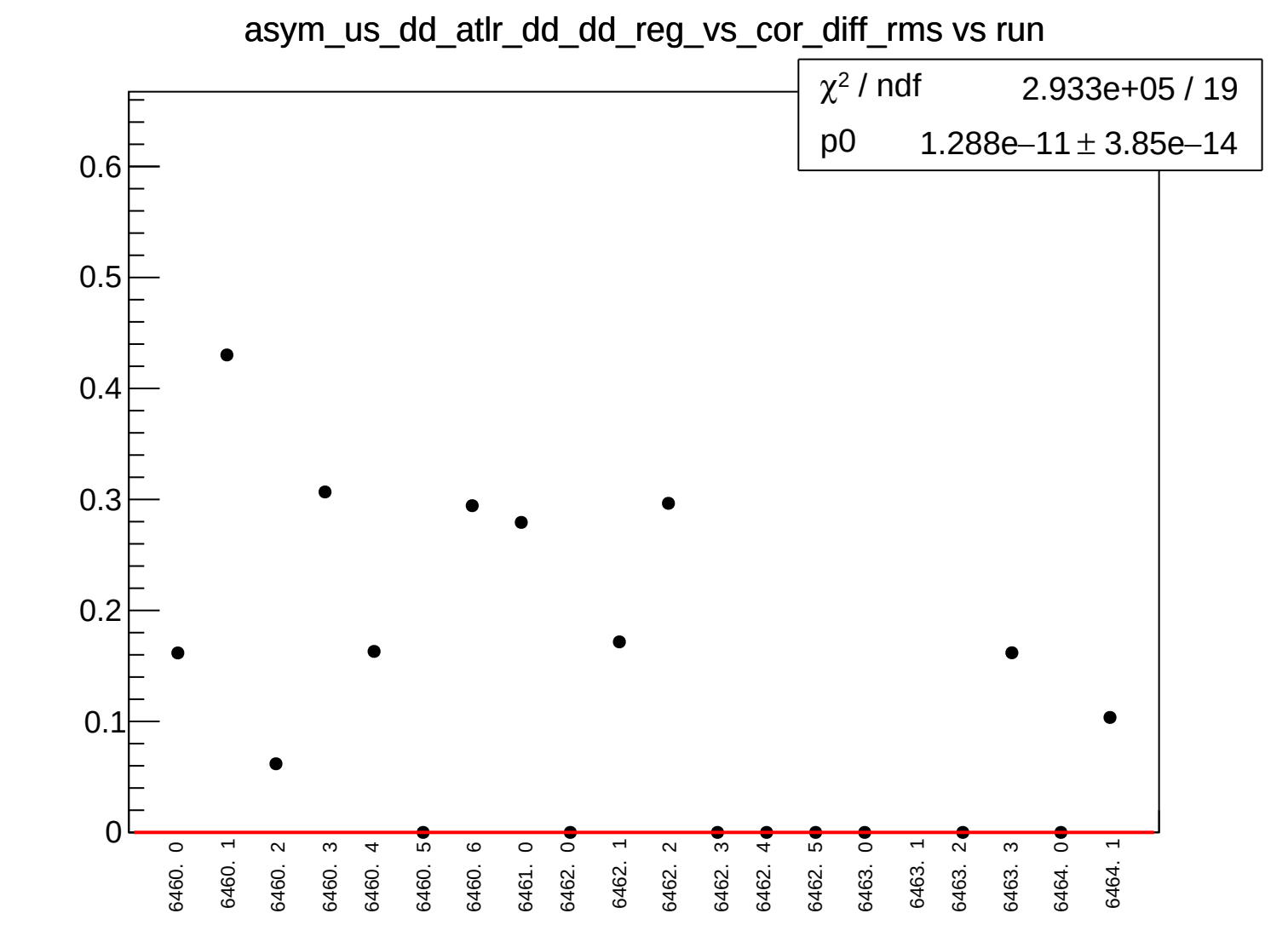

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 969.4 / 19
p0 417.2 ± 0.6562
440
420
400
380
360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

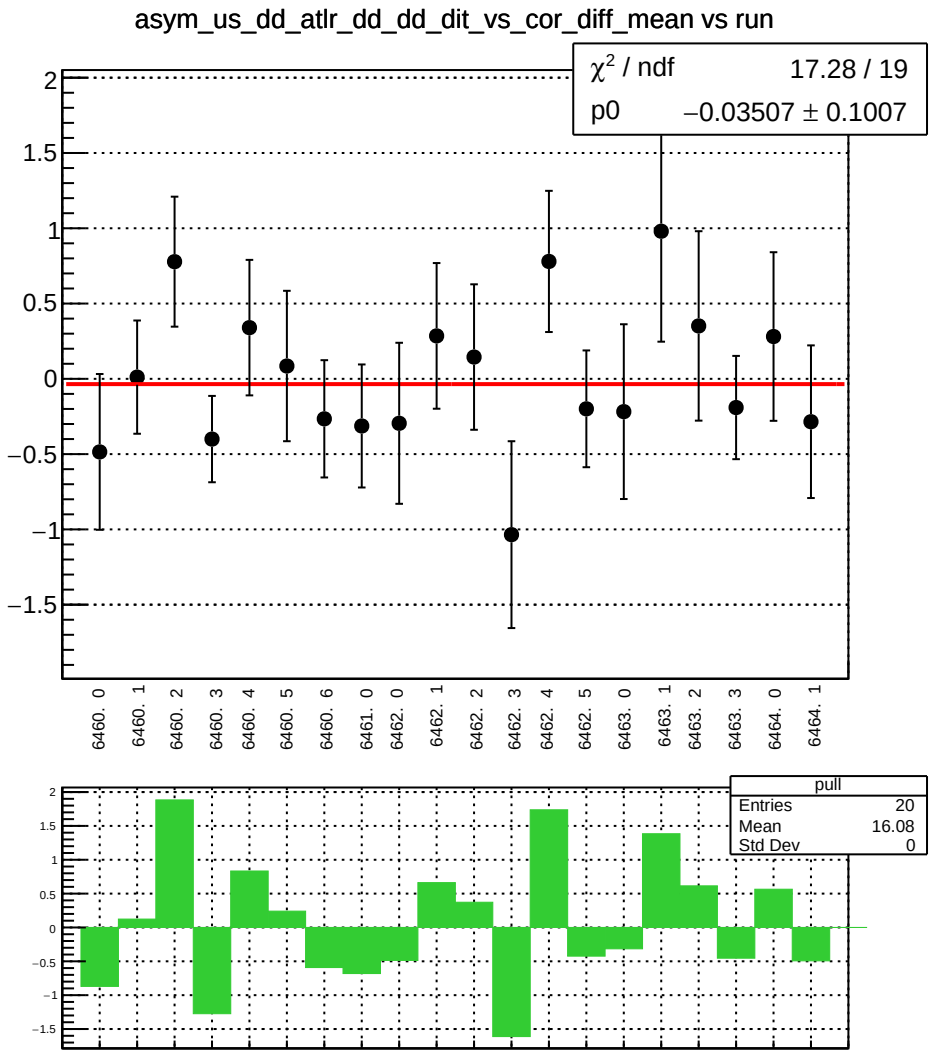

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 14.36 / 19
p0 1933 ± 2661
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 25.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

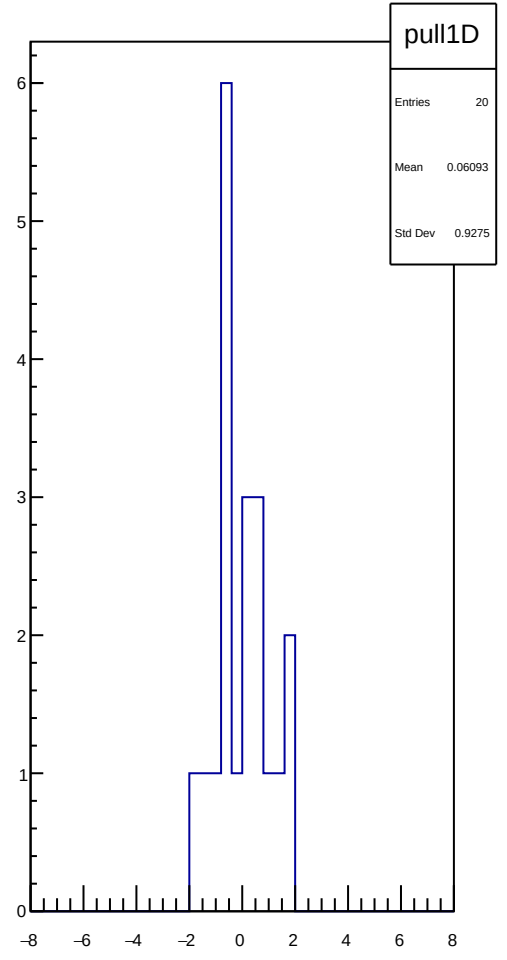

pull1D
Entries 20
Mean −0.02669
Std Dev 0.847
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

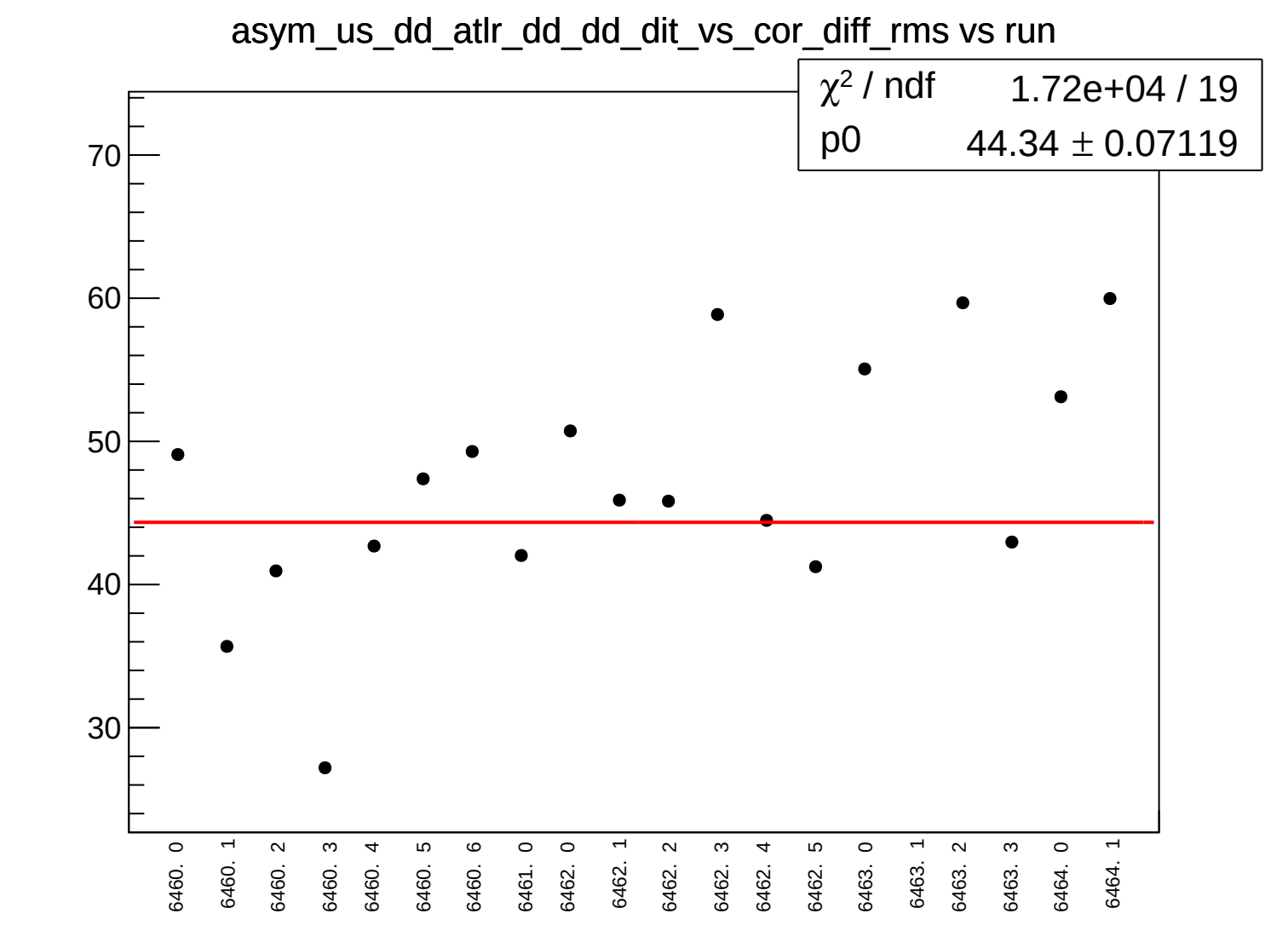

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 38.1 / 19
p0 1198 ± 1.881
1230
1220
1210
1200
1190
1180
1170
1160
1150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

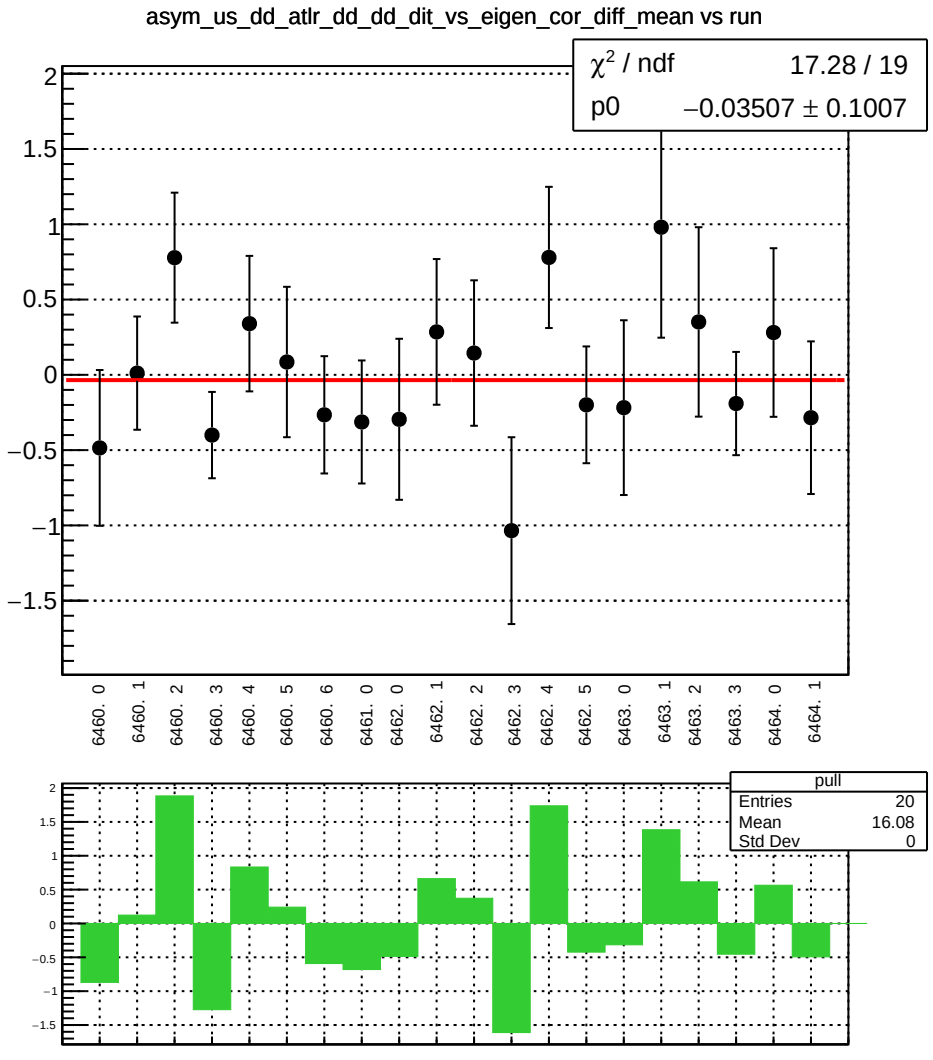

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 19.51 / 19
p0 1.997e−14 ± 5.445e−14
0.01
0.005
0
−0.005
−0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.19
Std Dev 0
pull1D
Entries 20
Mean 0.07897
Std Dev 0.9846

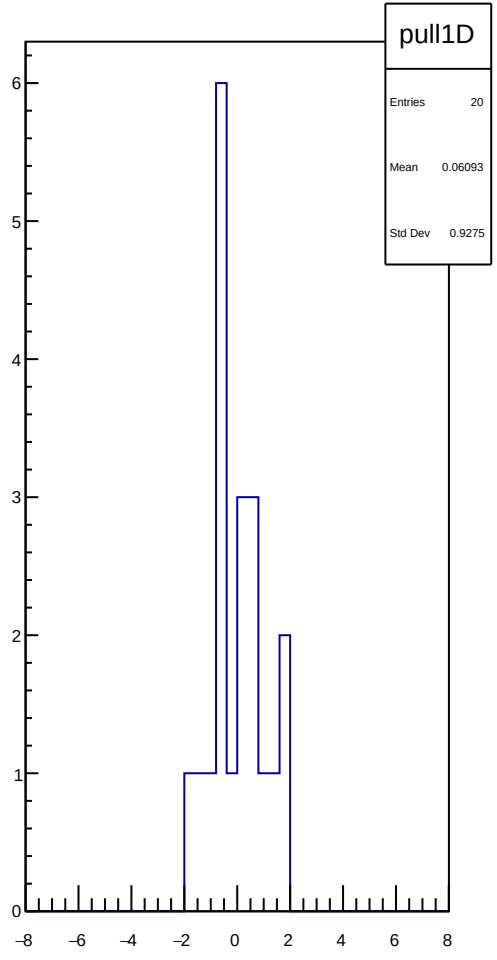

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.933e+05 / 19
p0 1.288e−11 ± 3.85e−14
0.6
0.5
0.4
0.3
0.2
0.1
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

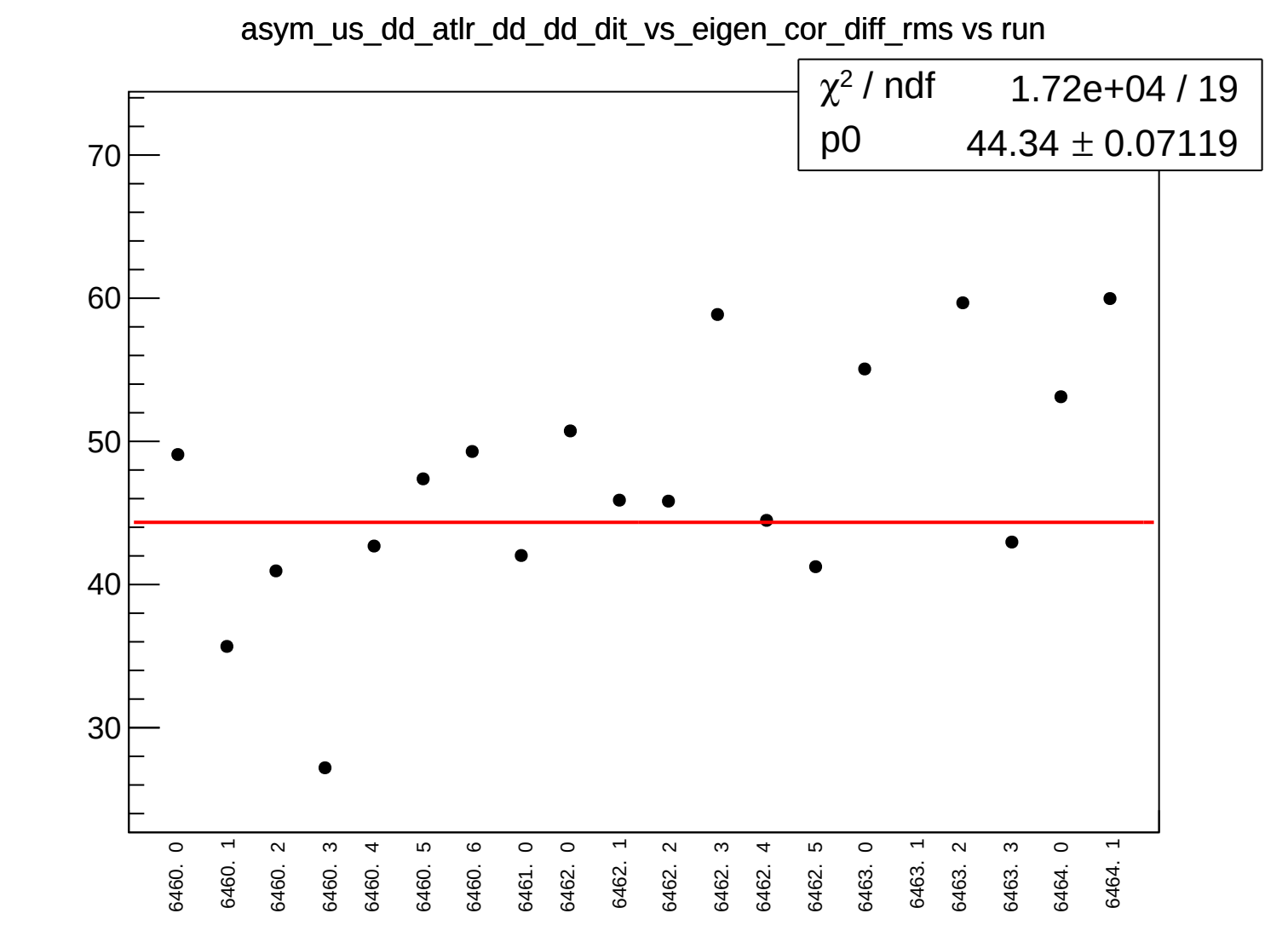

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 17.28 / 19
p0 −0.03507 ± 0.1007
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.08
Std Dev 0

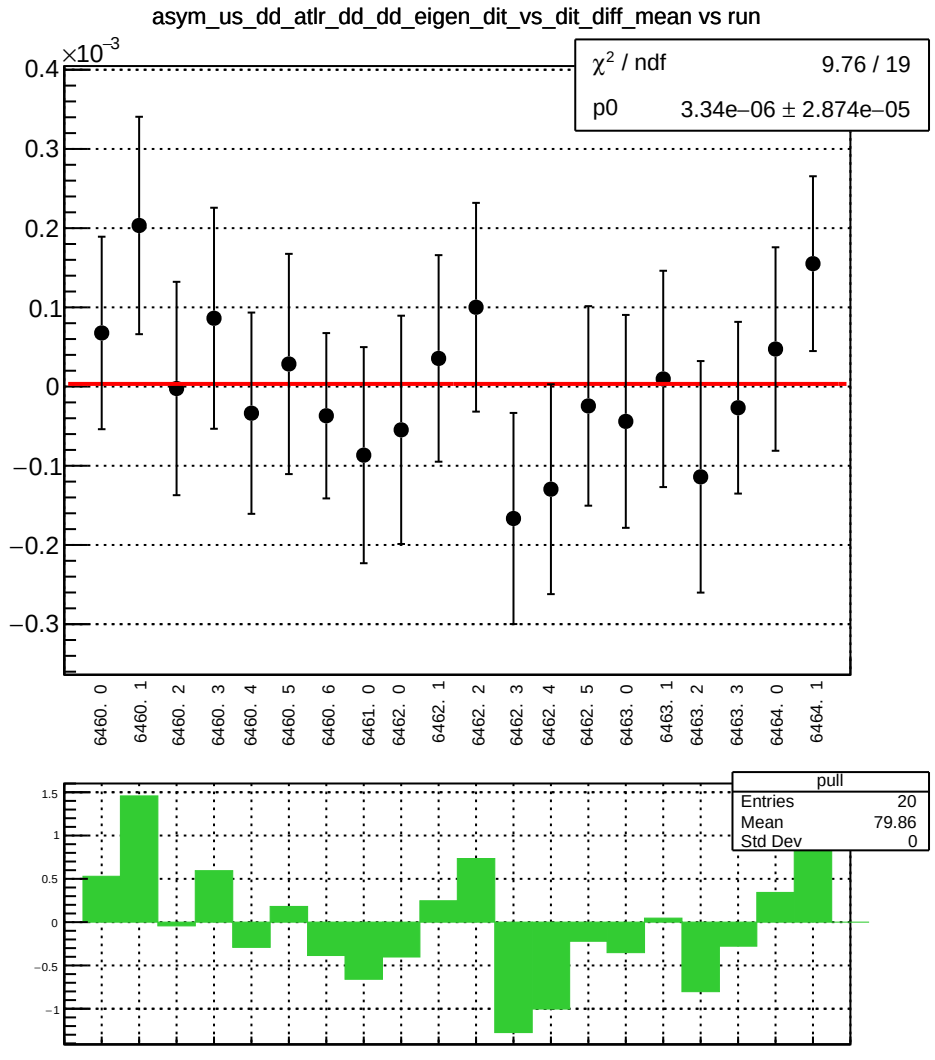

pull1D
Entries 20
Mean 0.06093
Std Dev 0.9275
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

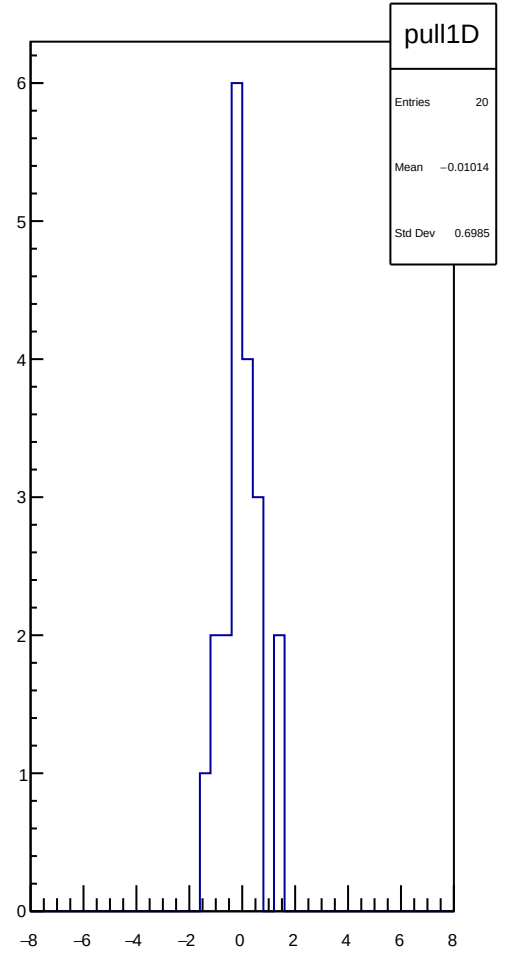

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.72e+04 / 19
p0 44.34 ± 0.07119
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

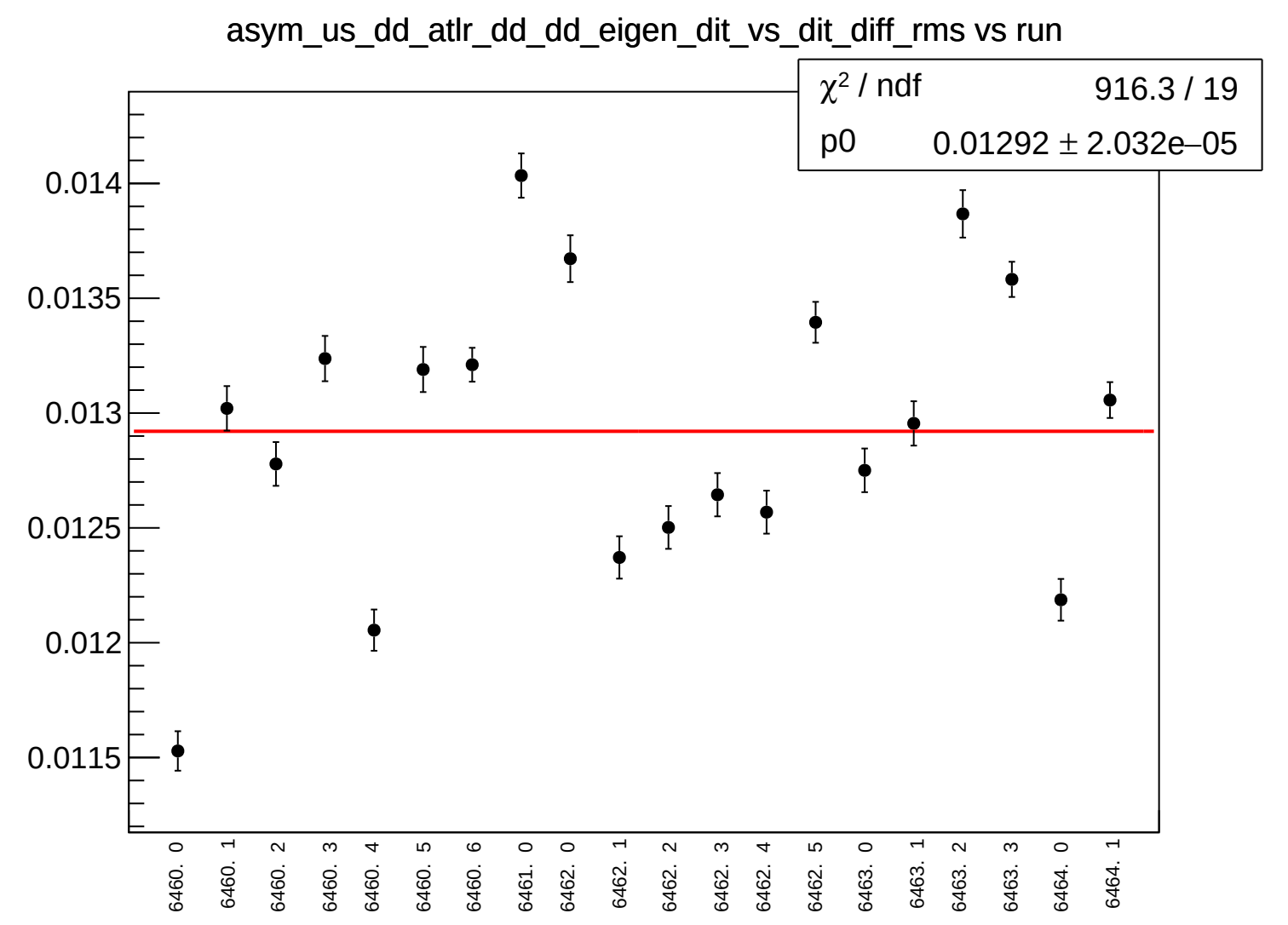

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.28 / 19
p0 −0.03507 ± 0.1007
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.08
Std Dev 0

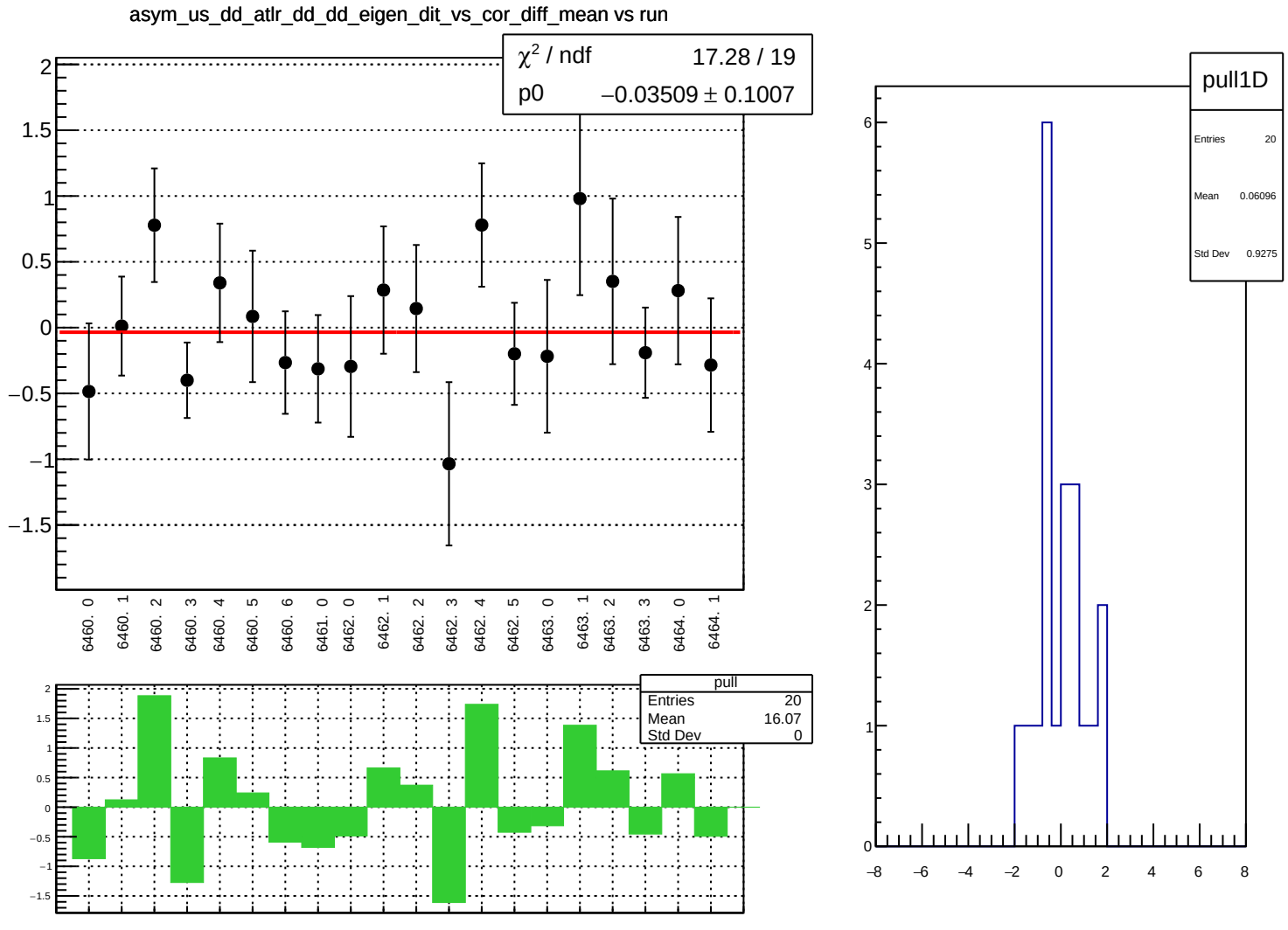

pull1D
Entries 20
Mean 0.06093
Std Dev 0.9275
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

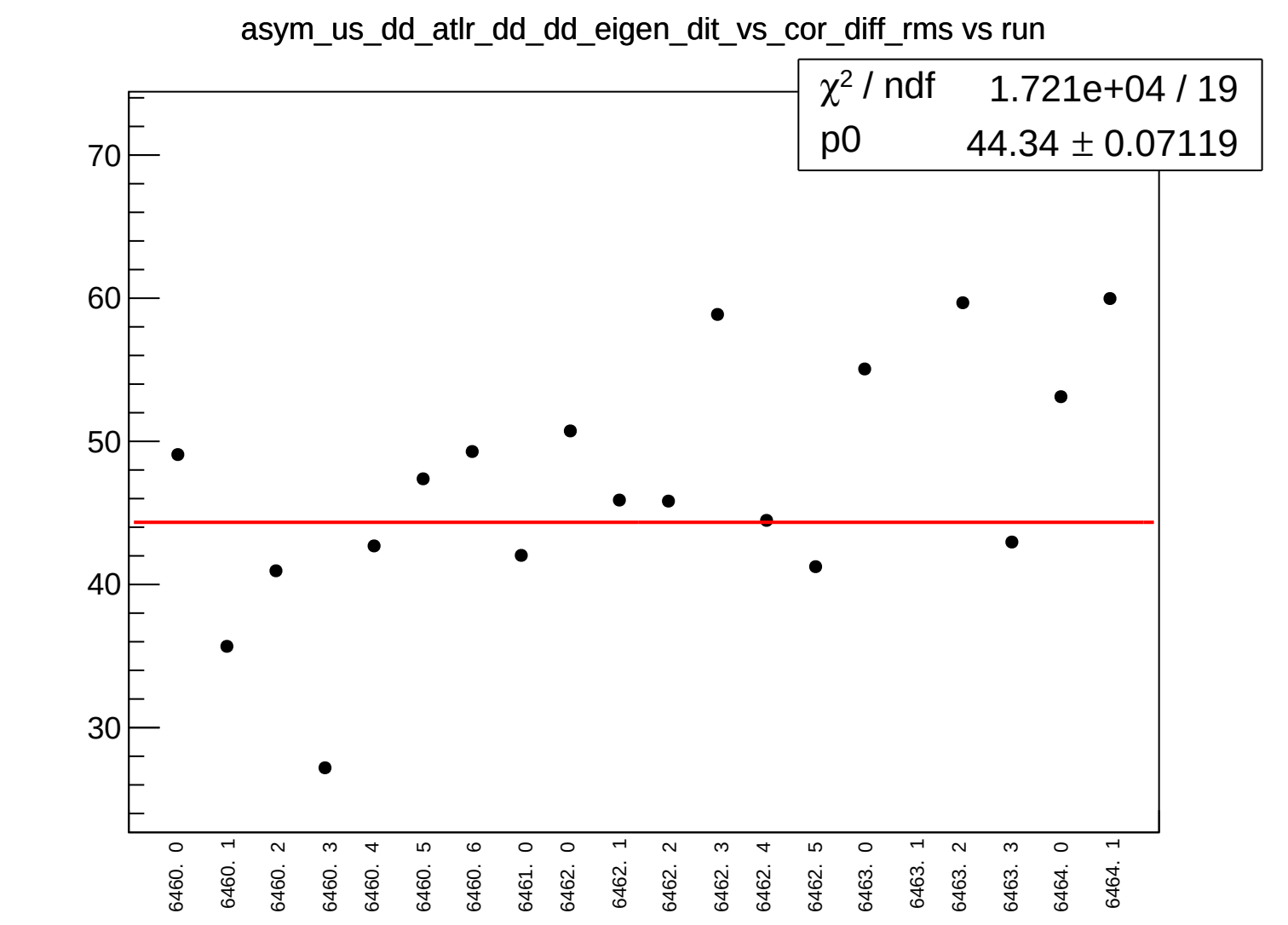

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.72e+04 / 19
p0 44.34 ± 0.07119
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

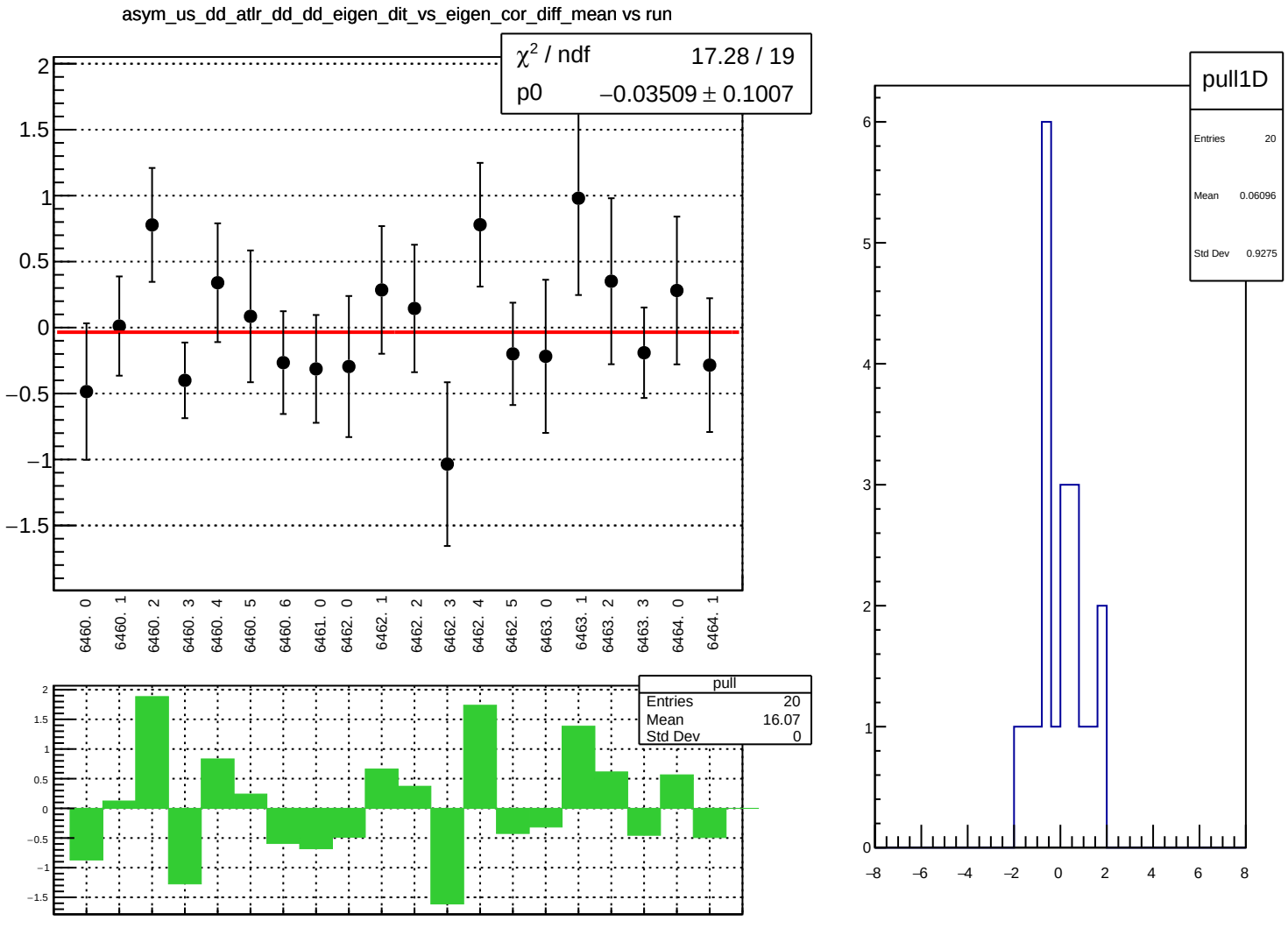

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 9.76 / 19
p0 3.34e−06 ± 2.874e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 79.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1

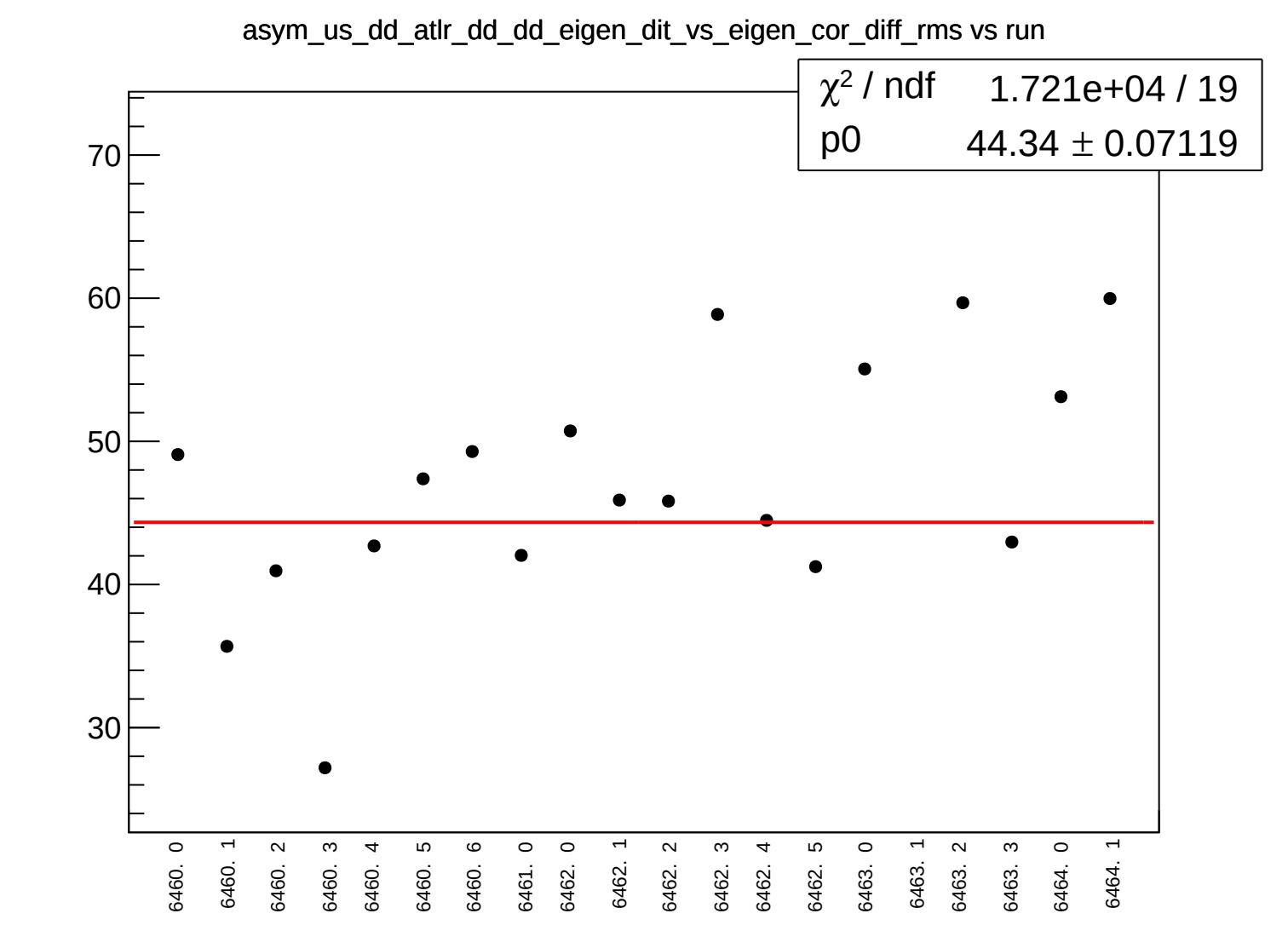

pull1D
Entries 20
Mean −0.01014
Std Dev 0.6985
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

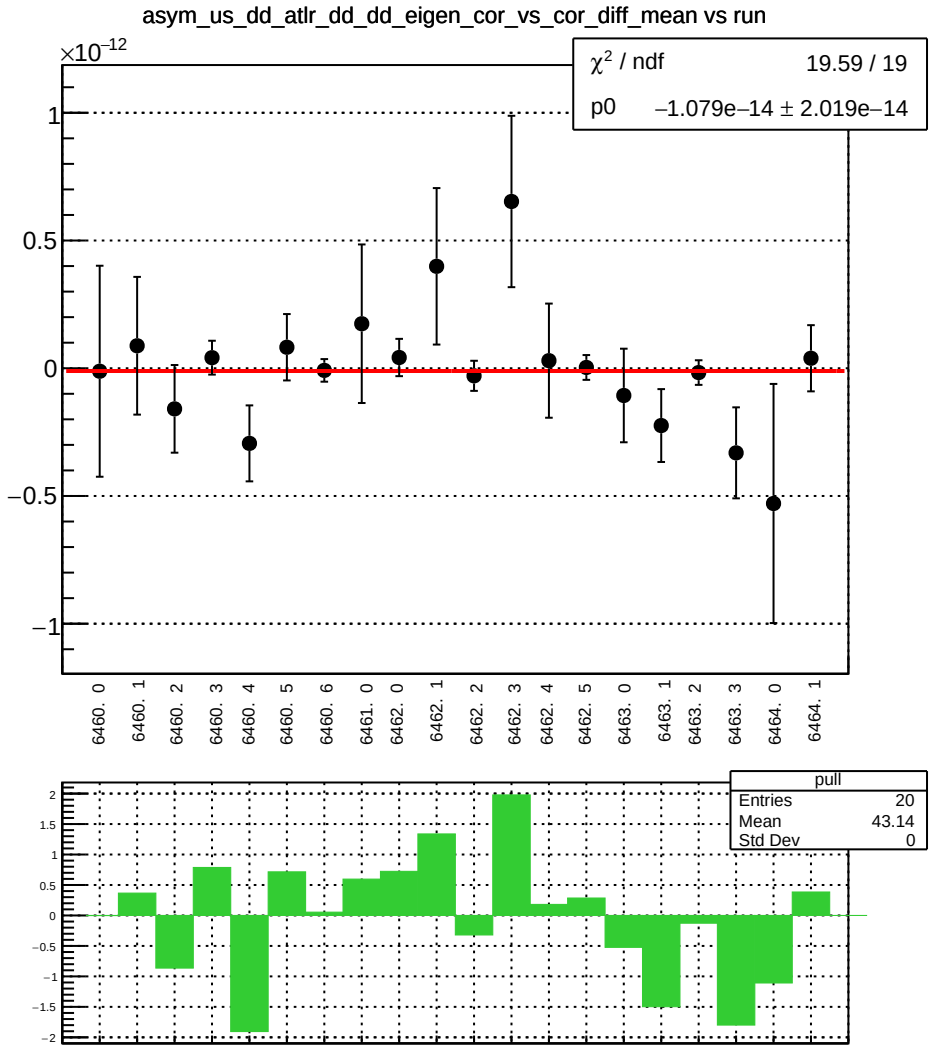

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 916.3 / 19
p0 0.01292 ± 2.032e−05
0.014
0.0135
0.013
0.0125
0.012
0.0115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

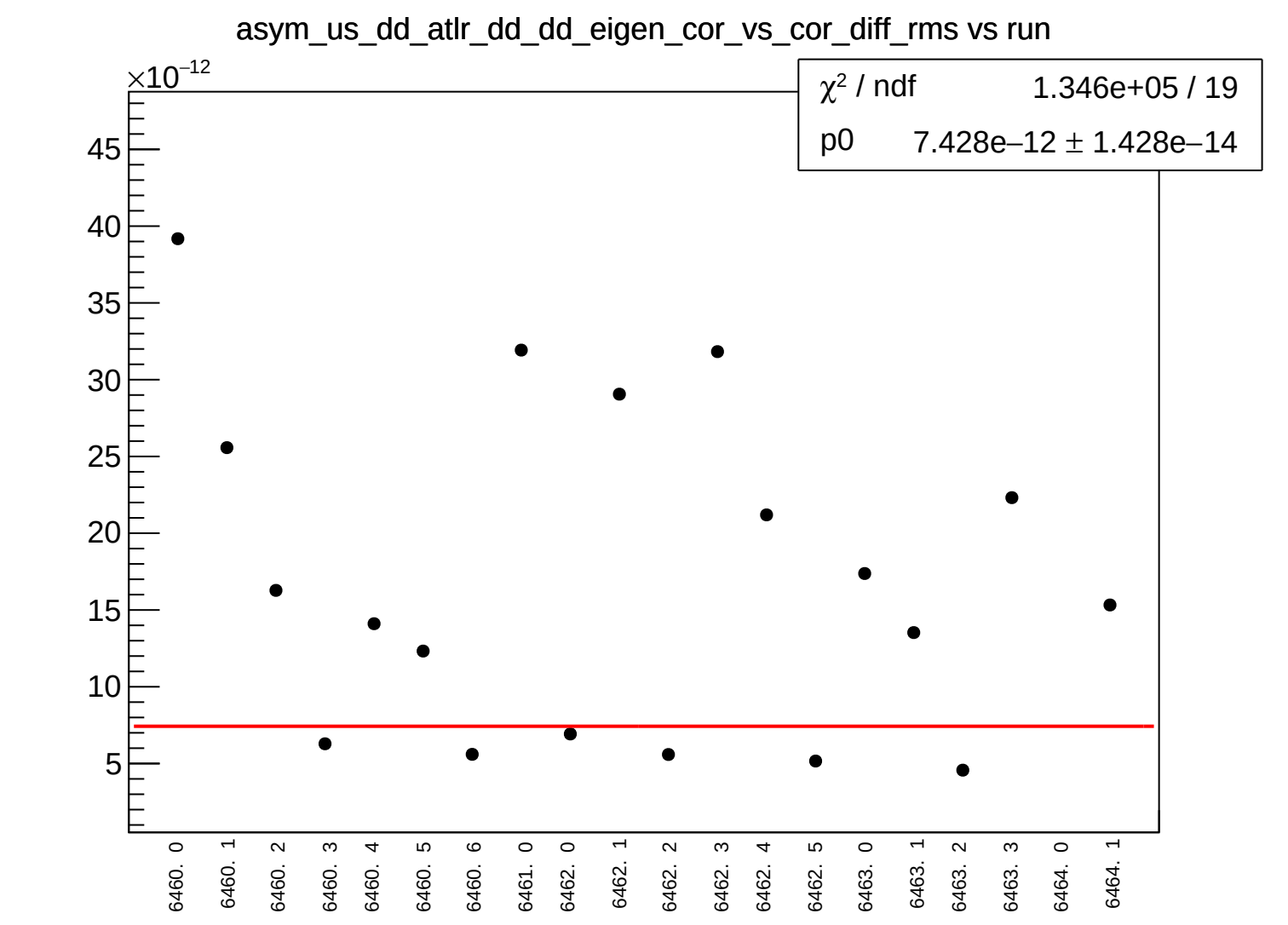

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.28 / 19
p0 −0.03509 ± 0.1007
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.07
Std Dev 0
pull1D
Entries 20
Mean 0.06096
Std Dev 0.9275

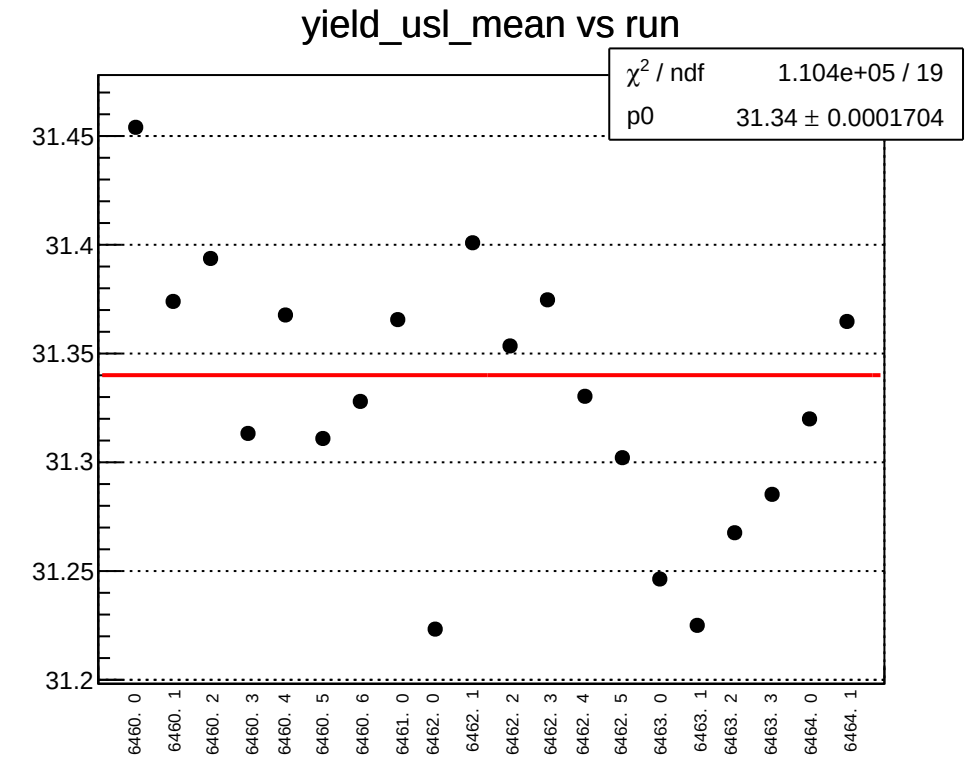

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.721e+04 / 19
p0 44.34 ± 0.07119
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

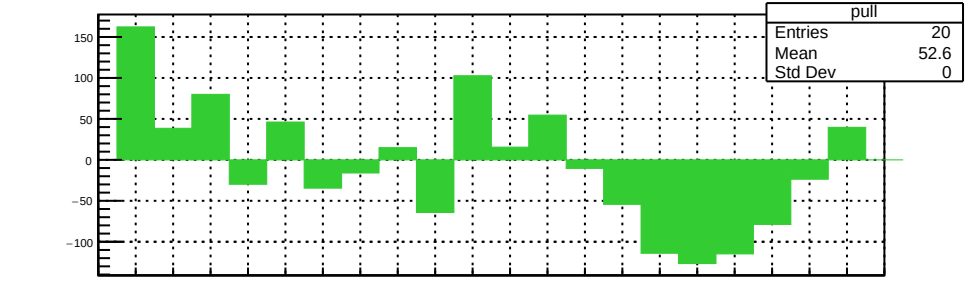

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.28 / 19
p0 −0.03509 ± 0.1007
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.07
Std Dev 0
pull1D
Entries 20
Mean 0.06096
Std Dev 0.9275
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

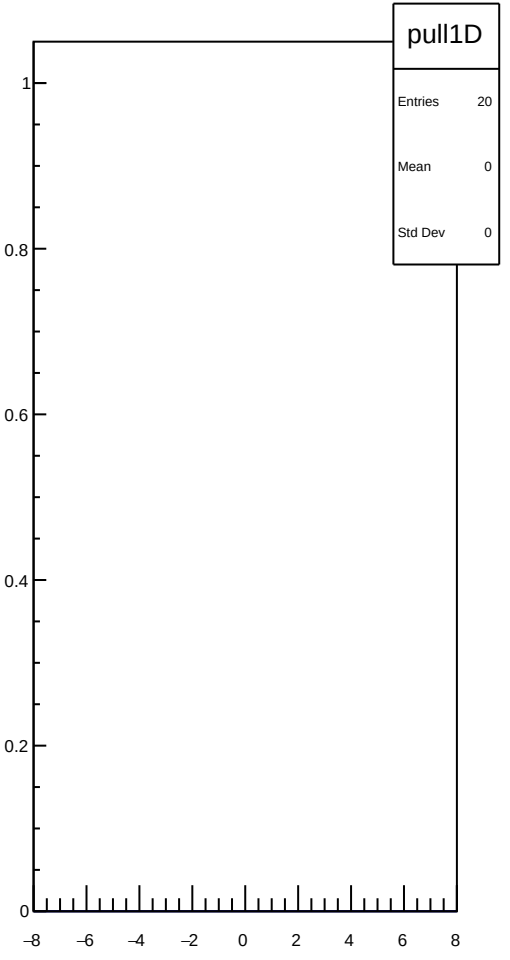

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.721e+04 / 19
p0 44.34 ± 0.07119
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

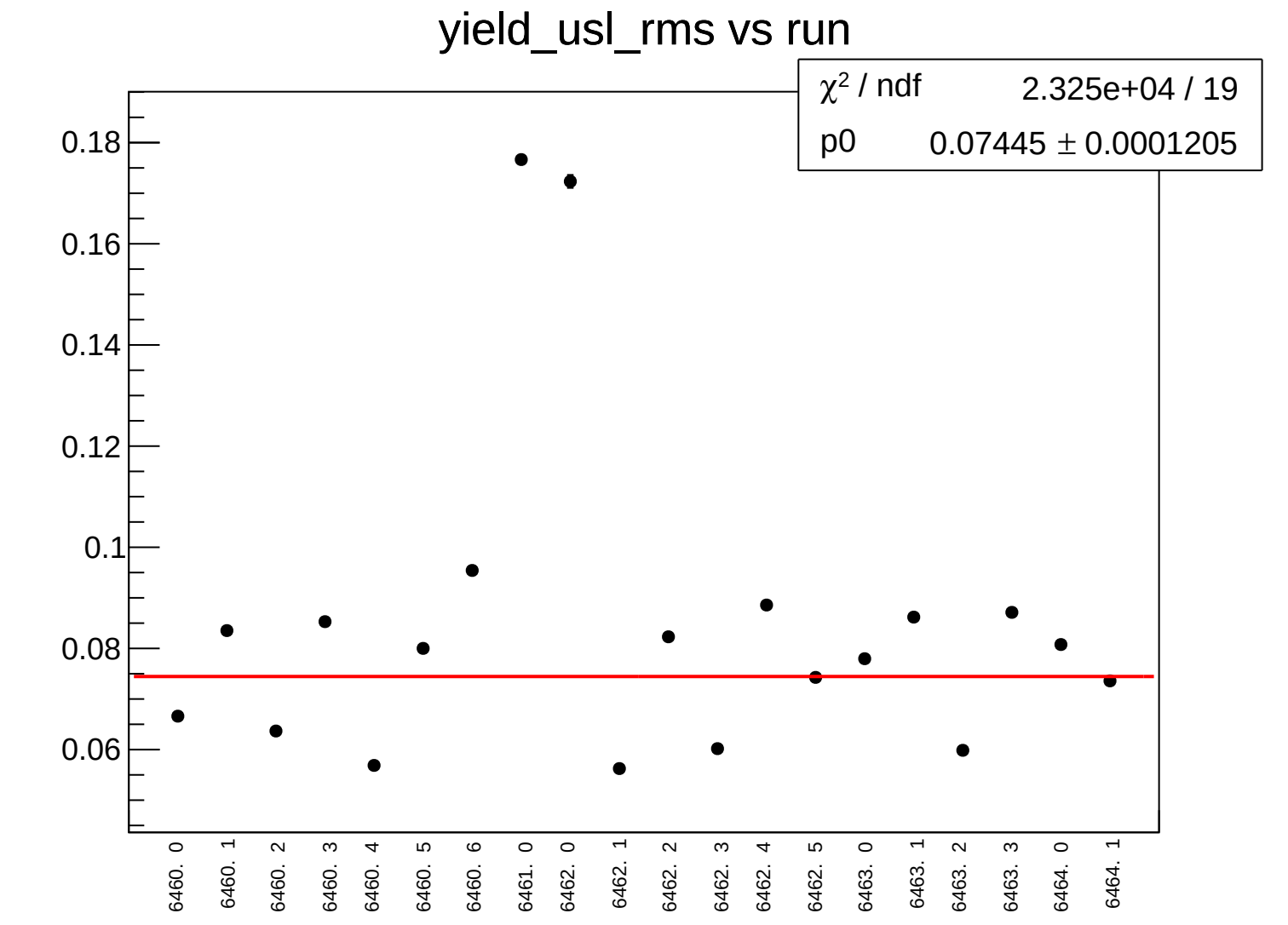

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 19.59 / 19
p0 −1.079e−14 ± 2.019e−14
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 43.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.03669
Std Dev 0.9889
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

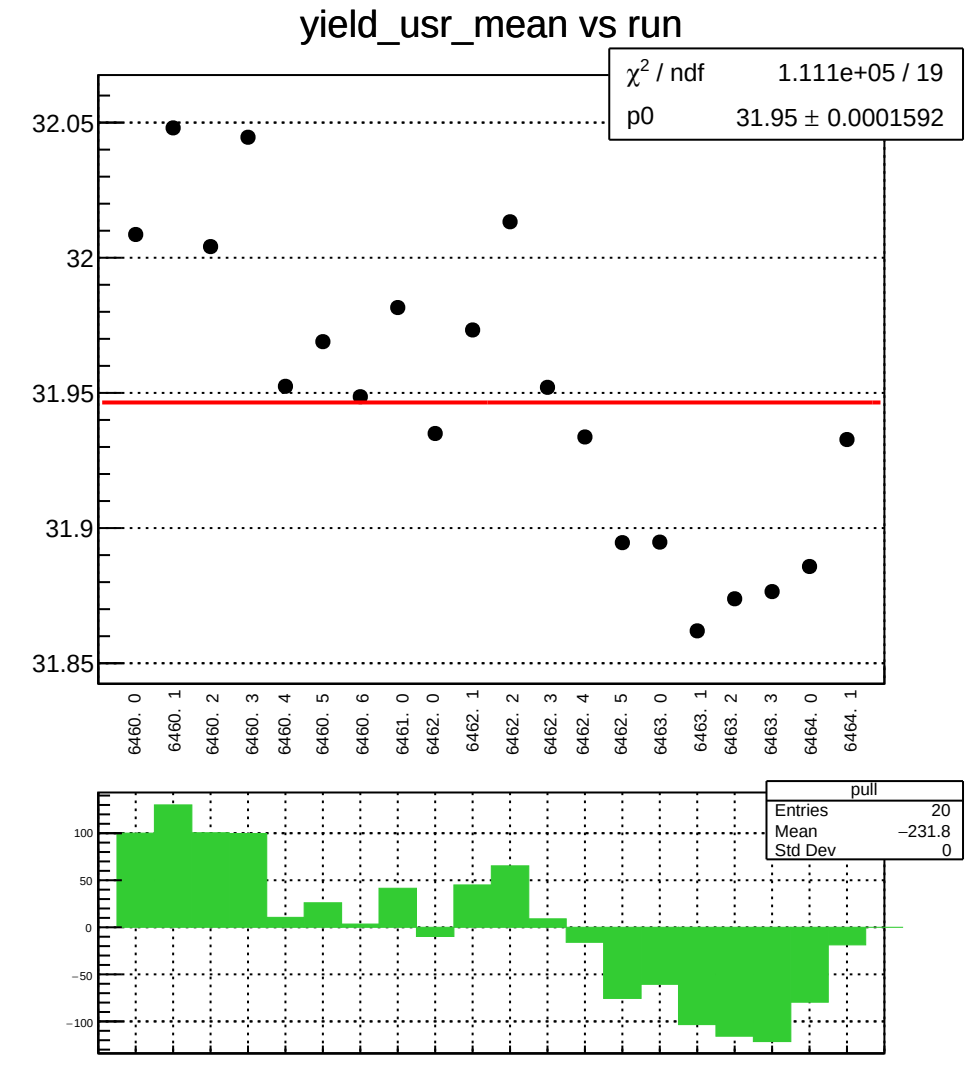

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.346e+05 / 19
p0 7.428e−12 ± 1.428e−14
45
40
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

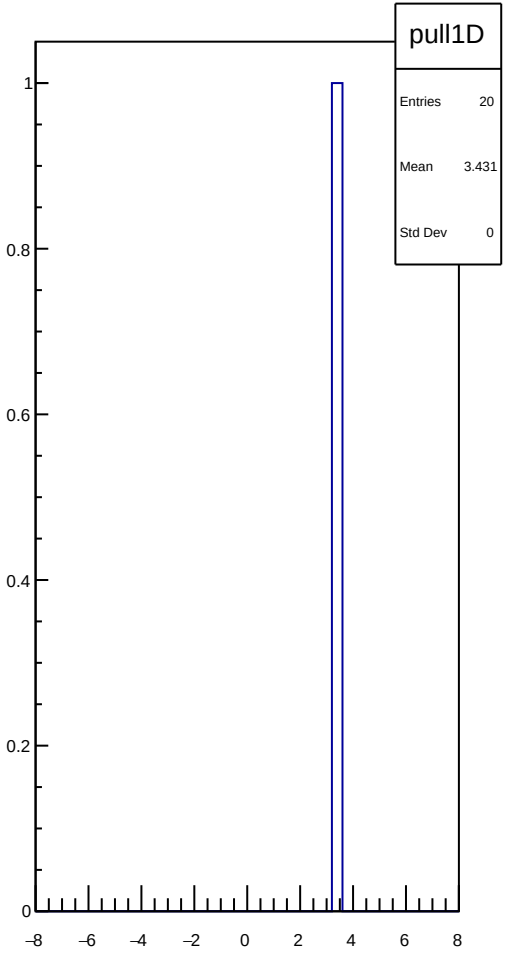

yield_usl_mean vs run
χ² / ndf 1.104e+05 / 19
p0 31.34 ± 0.0001704
31.45
31.4
31.35
31.3
31.25
31.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

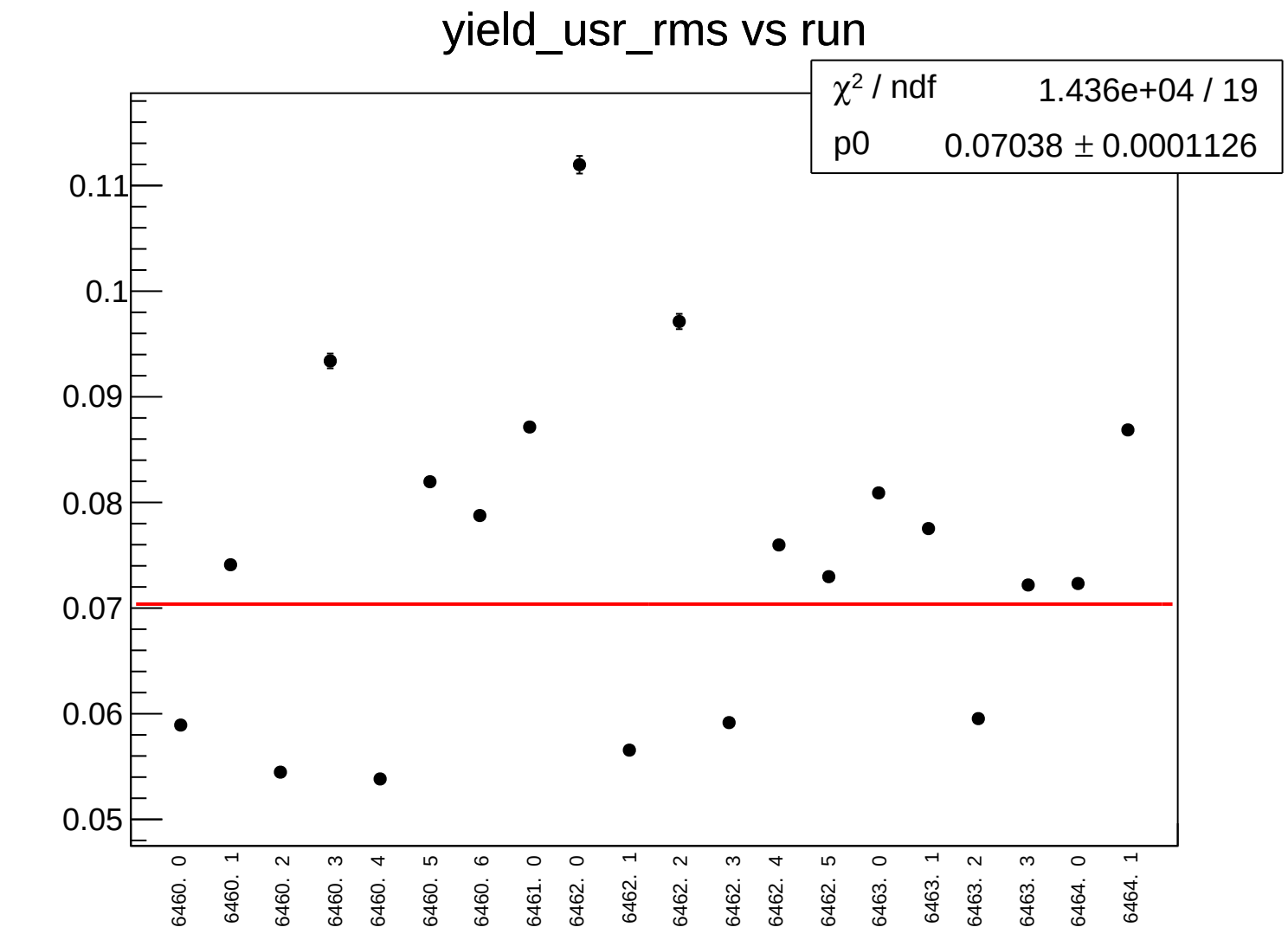

pull
Entries 20
Mean 52.6
Std Dev 0
150
100
50
0
−50
−100

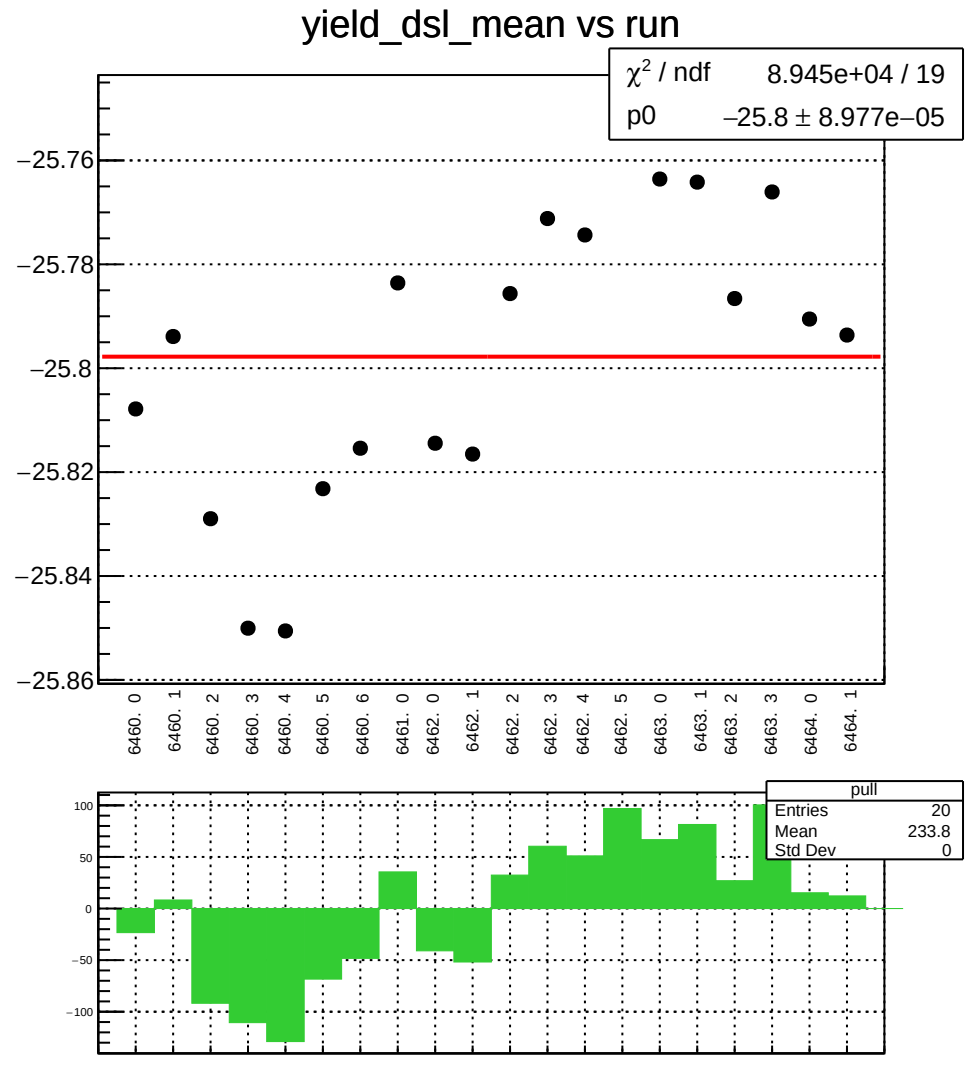

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

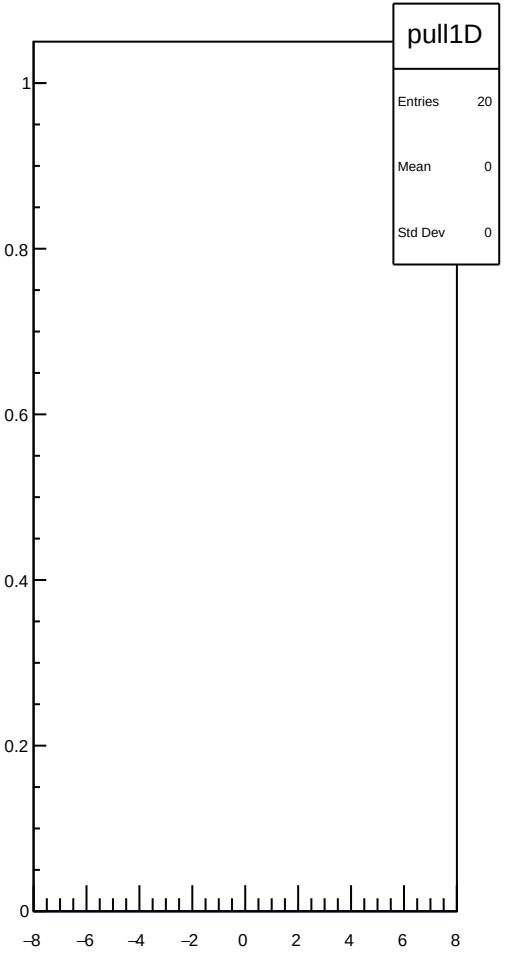

yield_usl_rms vs run
χ² / ndf 2.325e+04 / 19
p0 0.07445 ± 0.0001205
0.18
0.16
0.14
0.12
0.1
0.08
0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

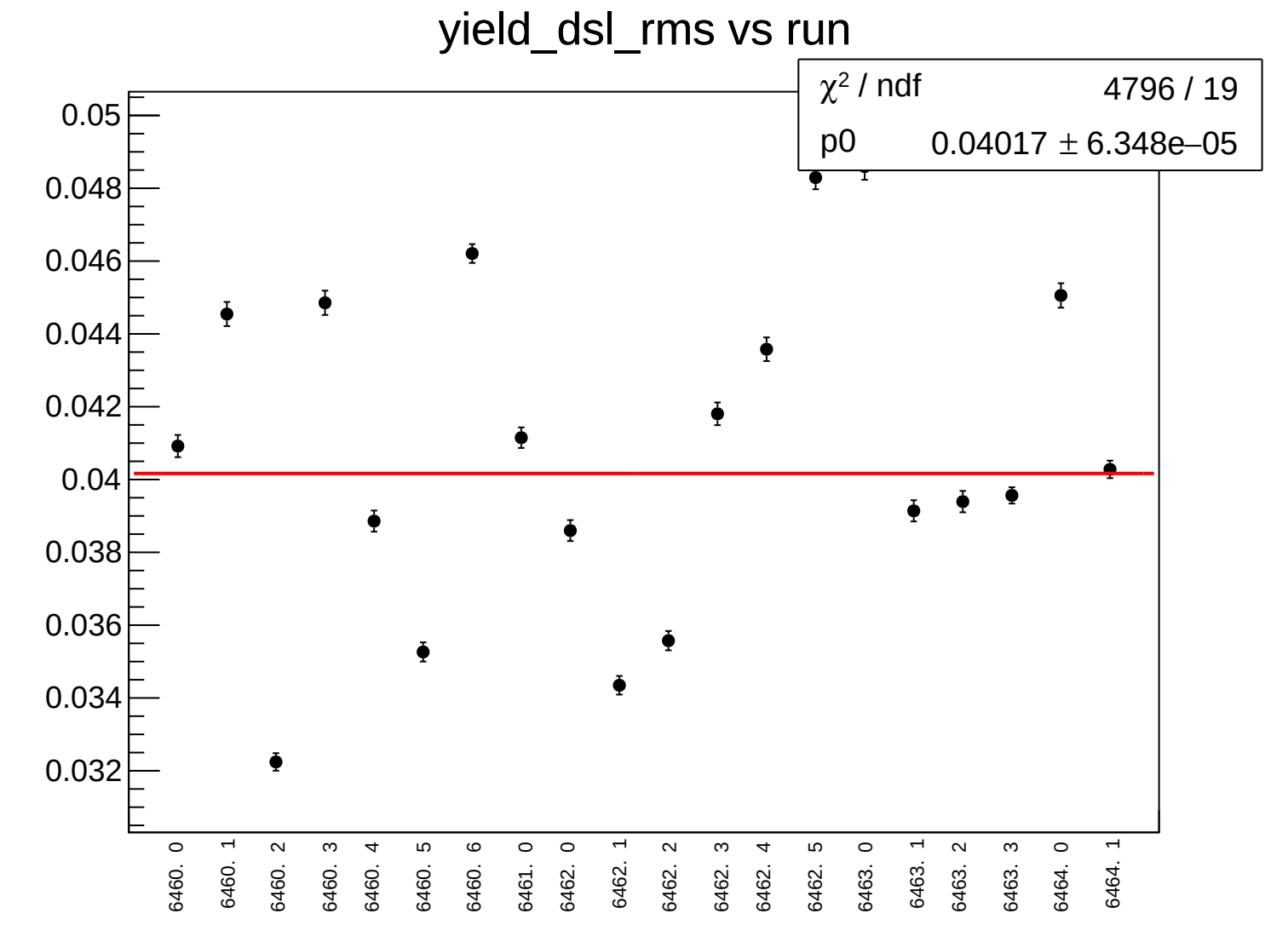

yield_usr_mean vs run
χ² / ndf 1.111e+05 / 19
p0 31.95 ± 0.0001592
32.05
32
31.95
31.9
31.85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −231.8
Std Dev 0
100
50
0
−50
−100

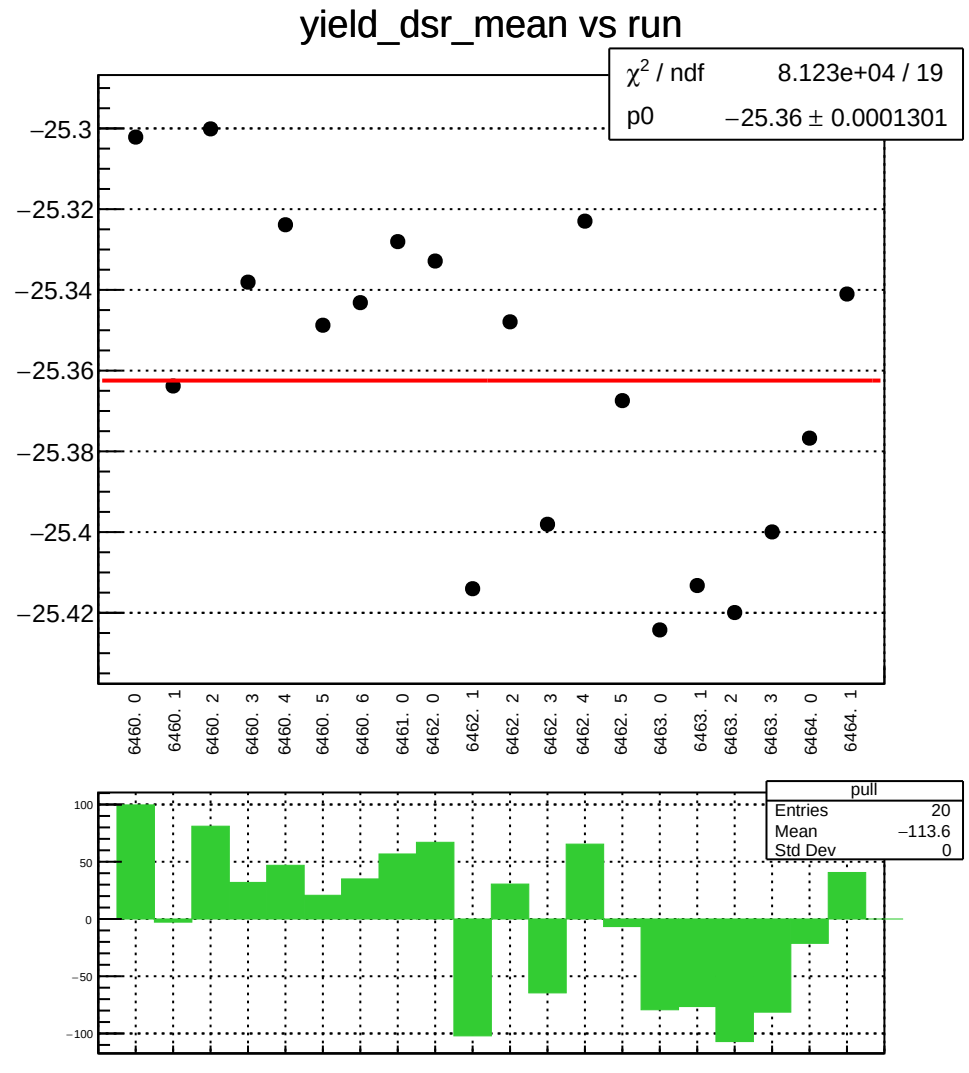

pull1D
Entries 20
Mean 3.431
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

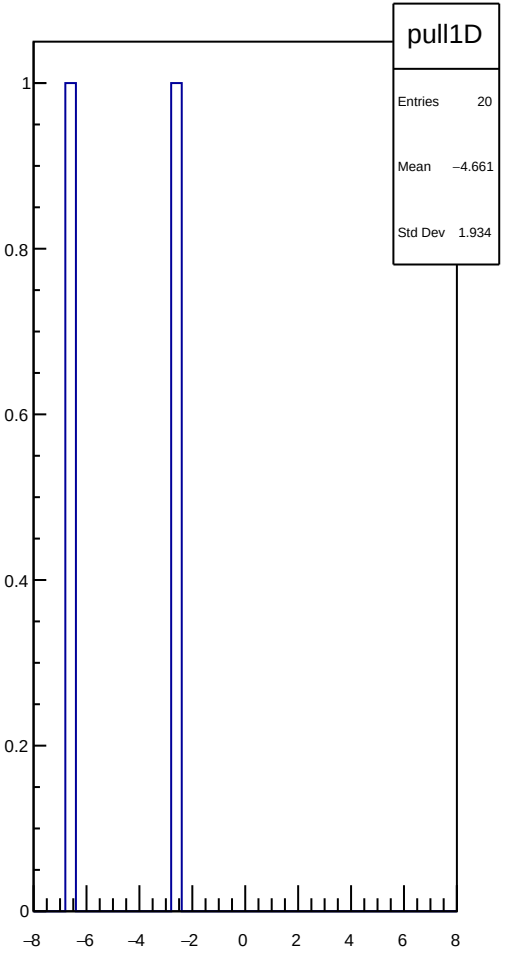

yield_usr_rms vs run
χ² / ndf 1.436e+04 / 19
p0 0.07038 ± 0.0001126
0.11
0.1
0.09
0.08
0.07
0.06
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

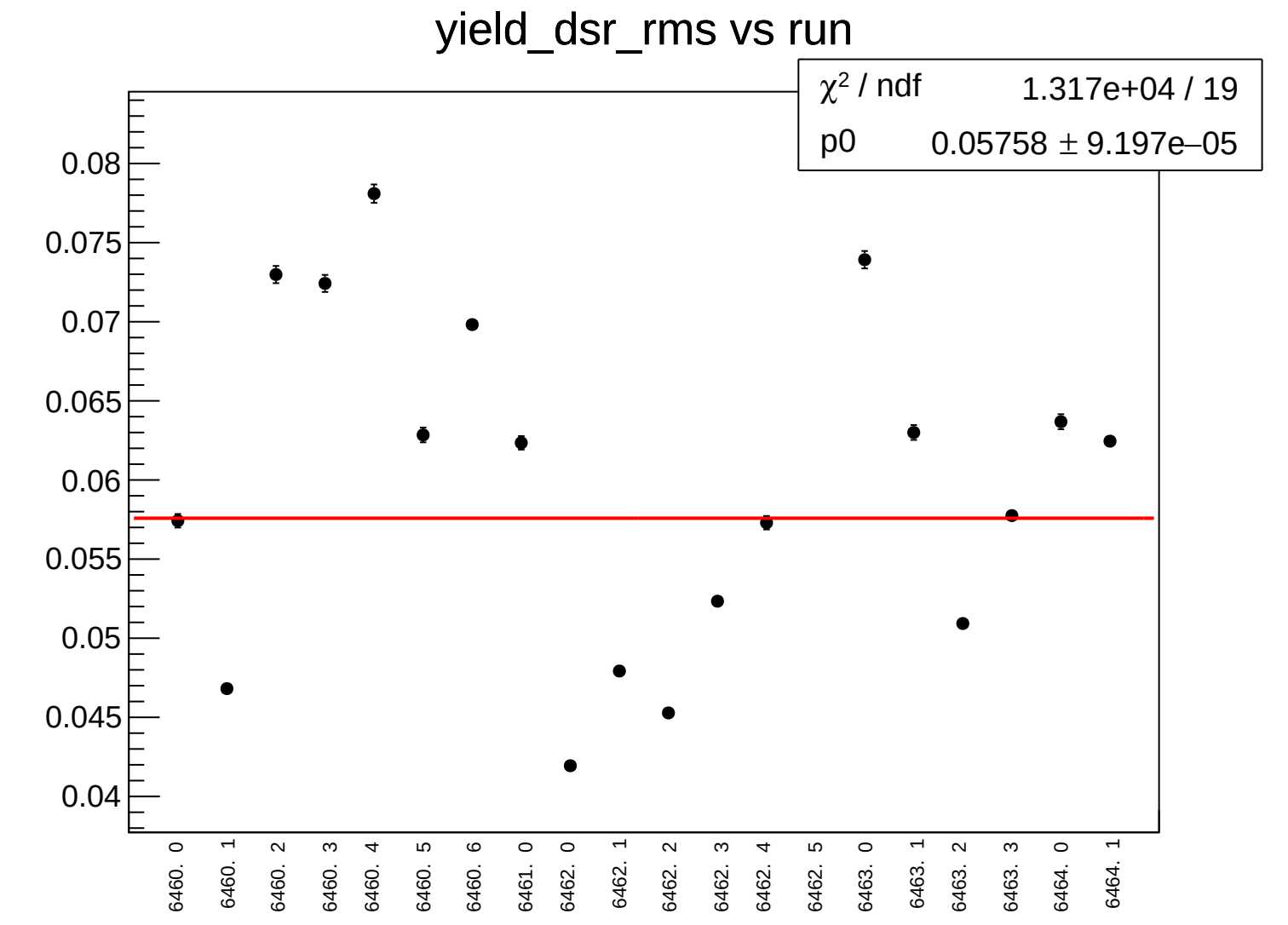

yield_dsl_mean vs run
χ² / ndf 8.945e+04 / 19
p0 −25.8 ± 8.977e−05
−25.76
−25.78
−25.8
−25.82
−25.84
−25.86
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 233.8
Std Dev 0
100
50
0
−50
−100

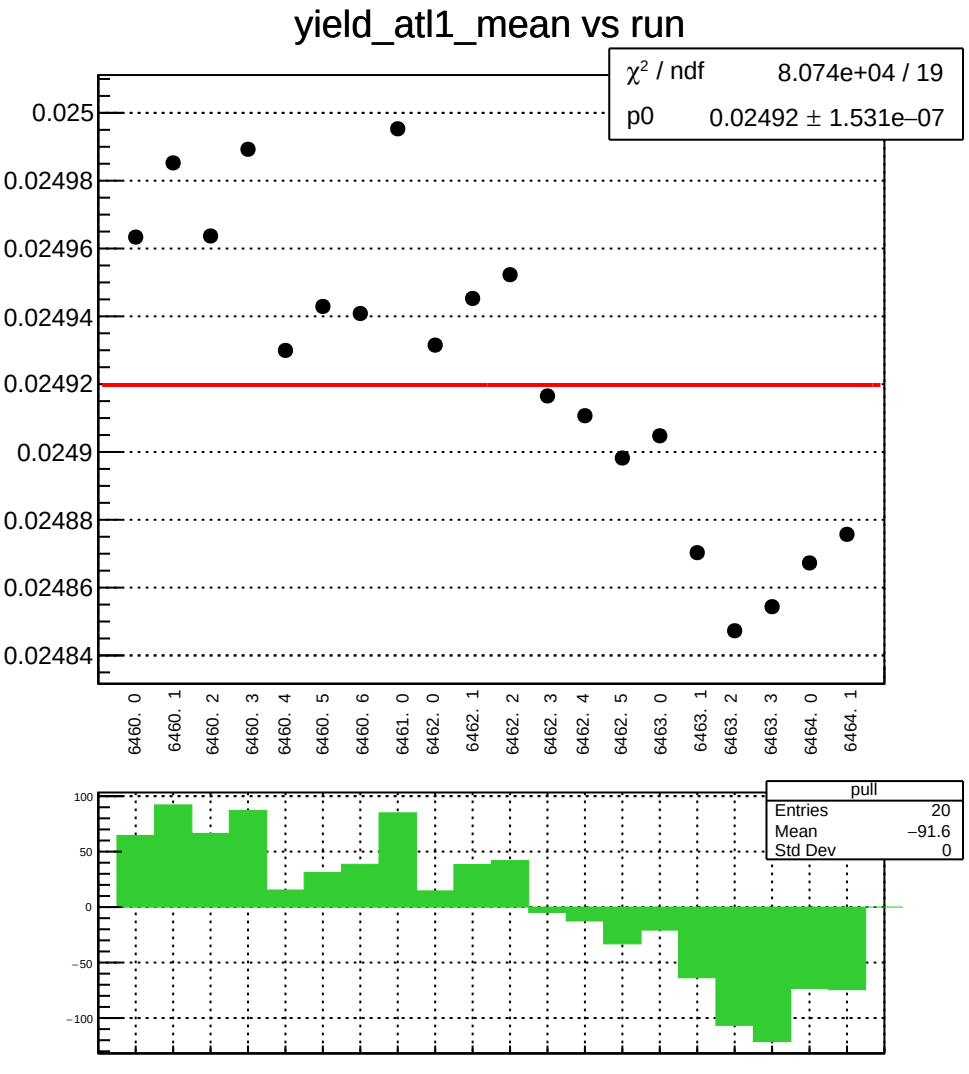

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

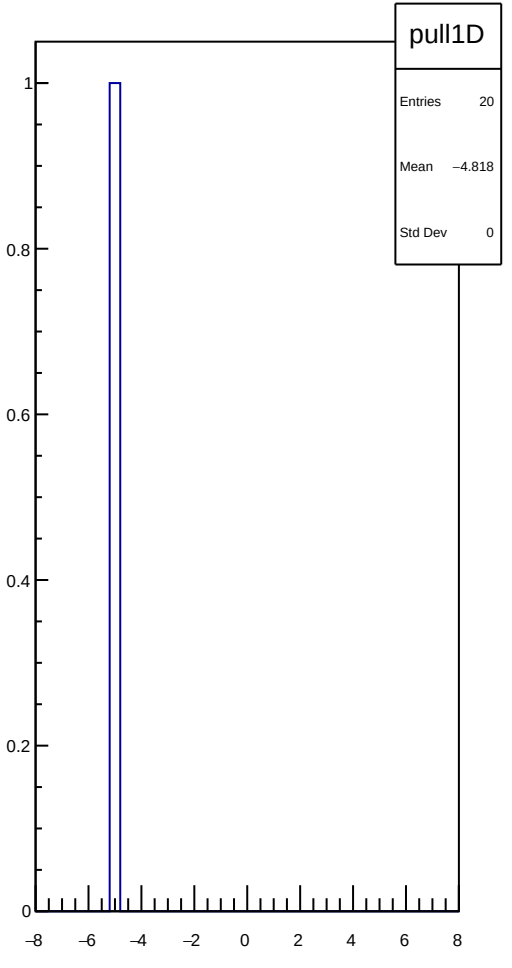

yield_dsl_rms vs run
χ² / ndf 4796 / 19
p0 0.04017 ± 6.348e−05
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

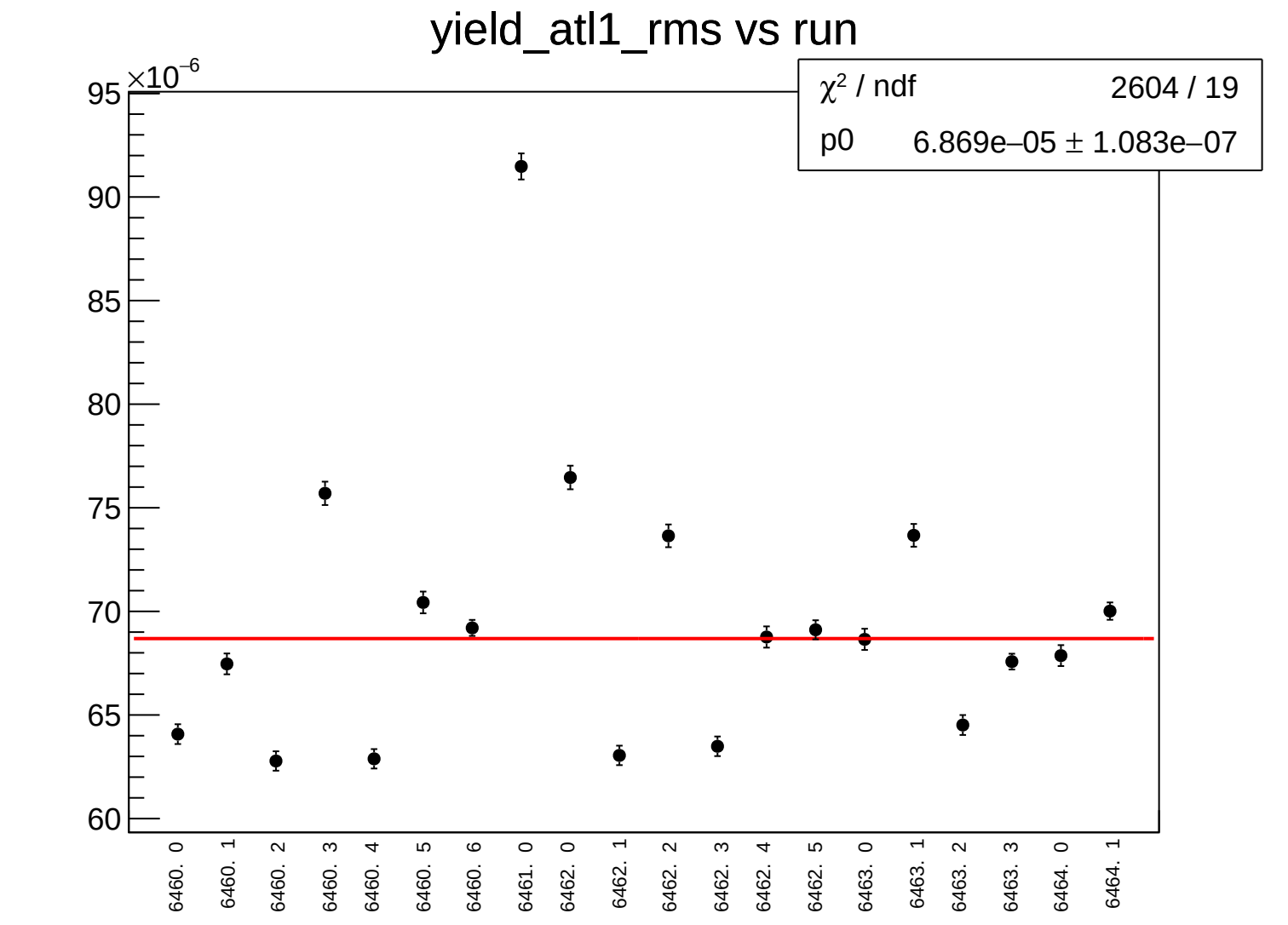

yield_dsr_mean vs run
χ² / ndf 8.123e+04 / 19
p0 −25.36 ± 0.0001301
−25.3
−25.32
−25.34
−25.36
−25.38
−25.4
−25.42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −113.6
Std Dev 0
100
50
0
−50
−100

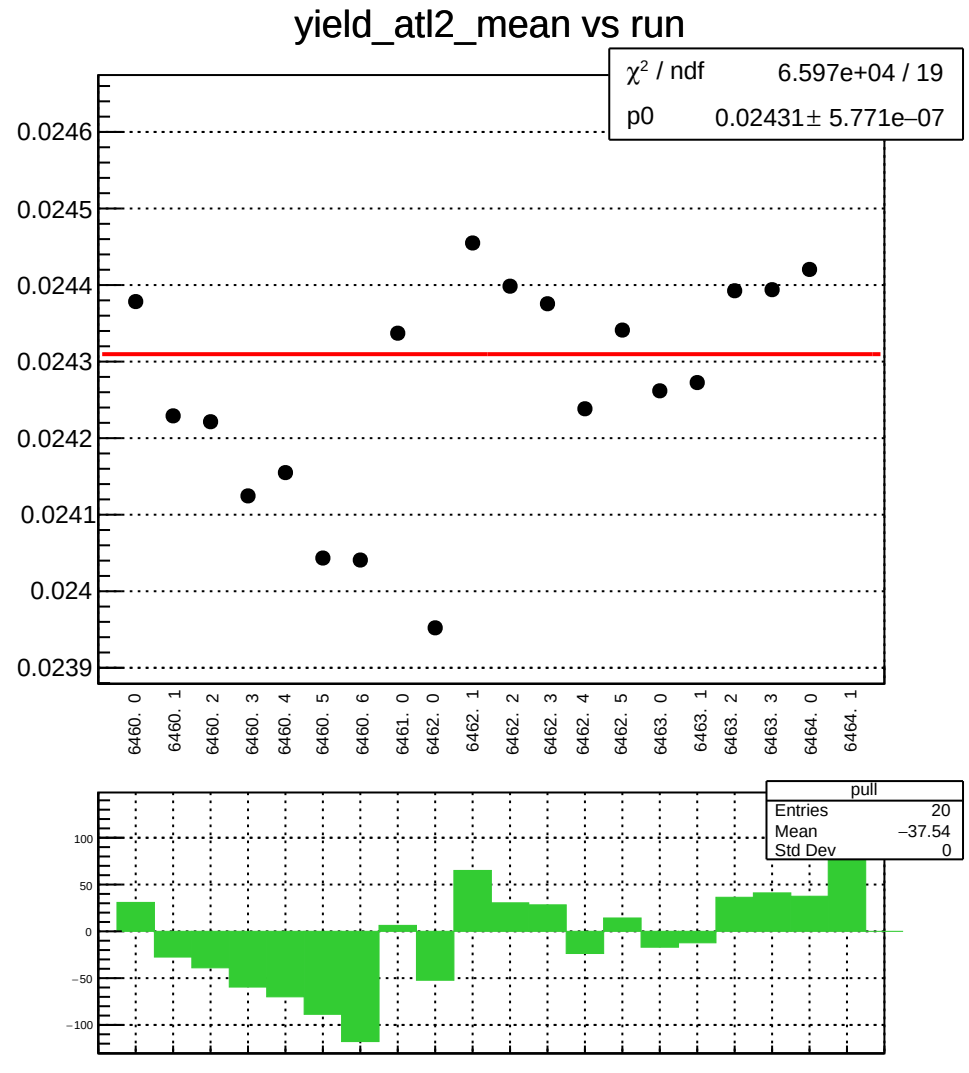

pull1D
Entries 20
Mean −4.661
Std Dev 1.934
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

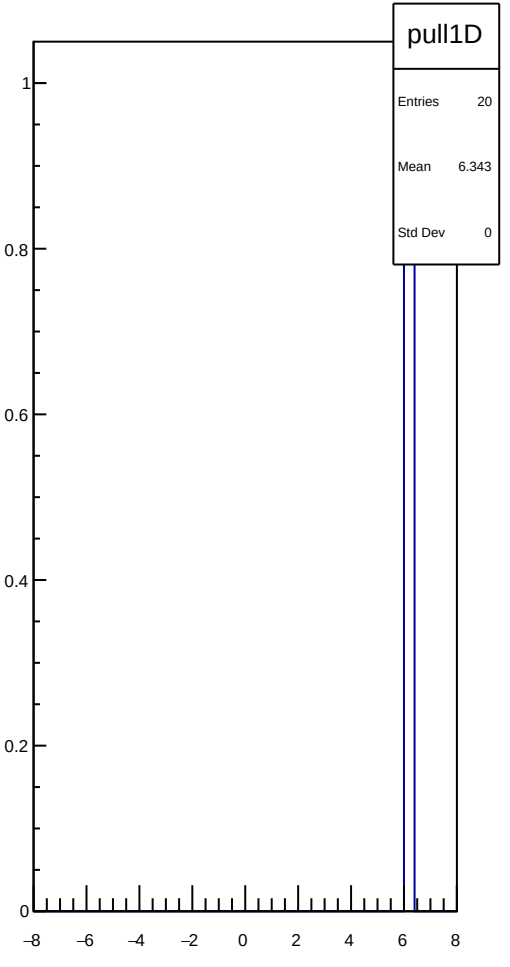

yield_dsr_rms vs run
χ² / ndf 1.317e+04 / 19
p0 0.05758 ± 9.197e–05
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

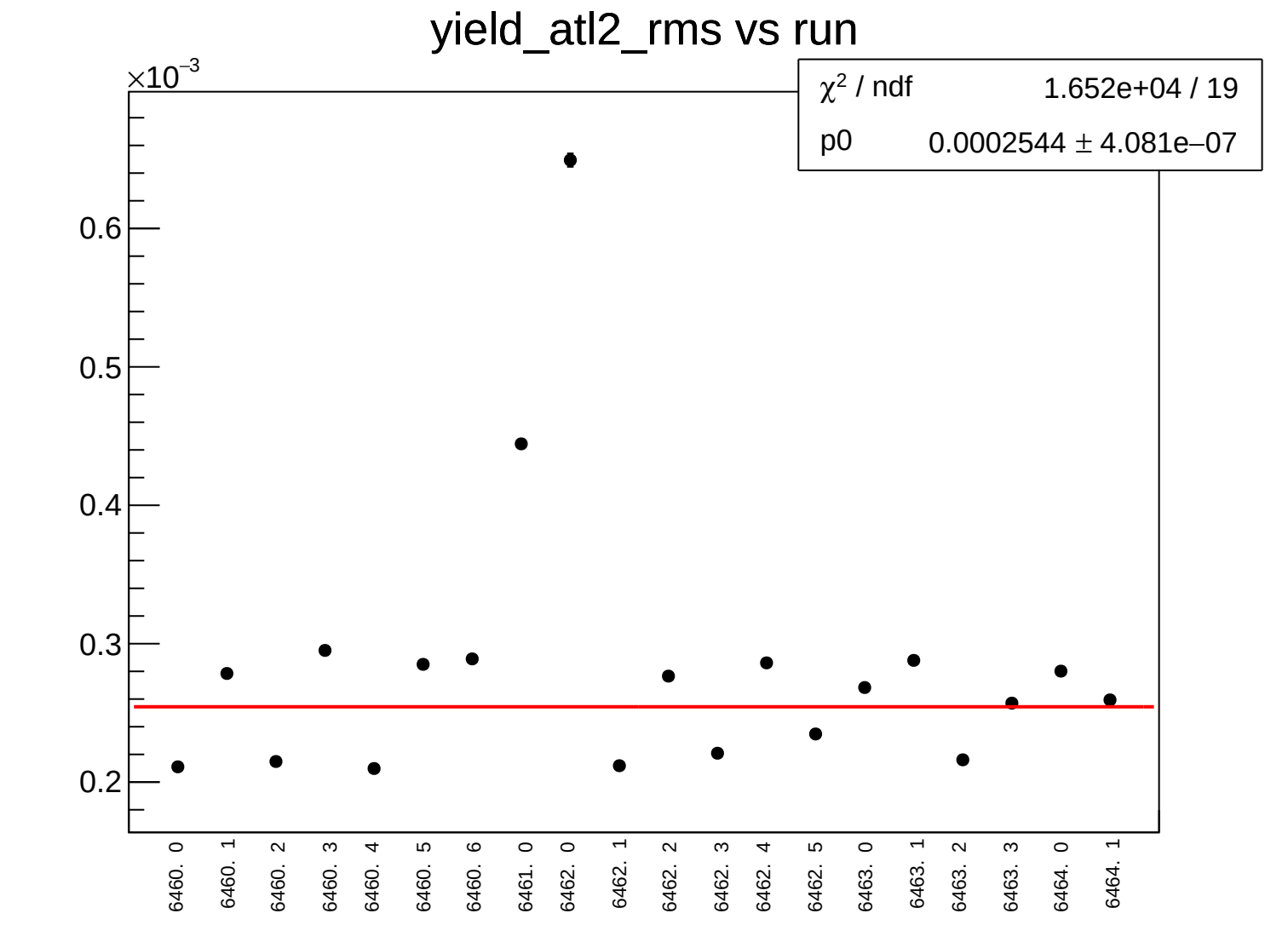

yield_atl1_mean vs run
χ² / ndf 8.074e+04 / 19
p0 0.02492 ± 1.531e−07
0.025
0.02498
0.02496
0.02494
0.02492
0.0249
0.02488
0.02486
0.02484
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −91.6
Std Dev 0
100
50
0
−50
−100

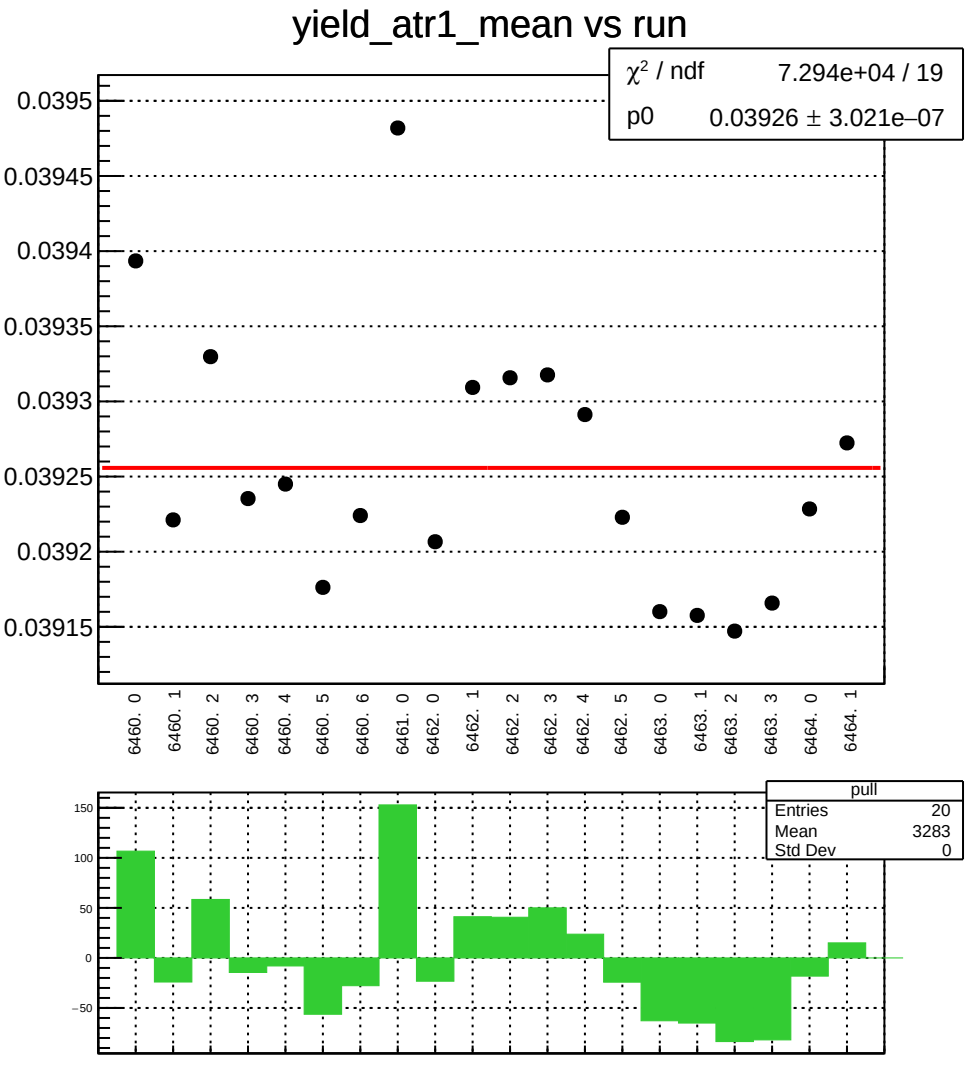

pull1D
Entries 20
Mean −4.818
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

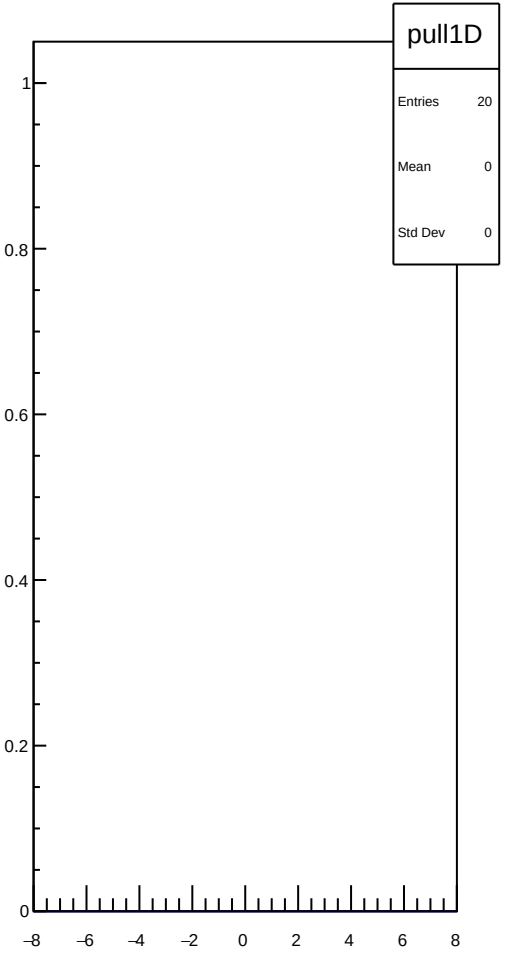

yield_atl1_rms vs run
χ^2 / ndf 2604 / 19
p0 6.869e−05 ± 1.083e−07
×10⁻⁶
95
90
85
80
75
70
65
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

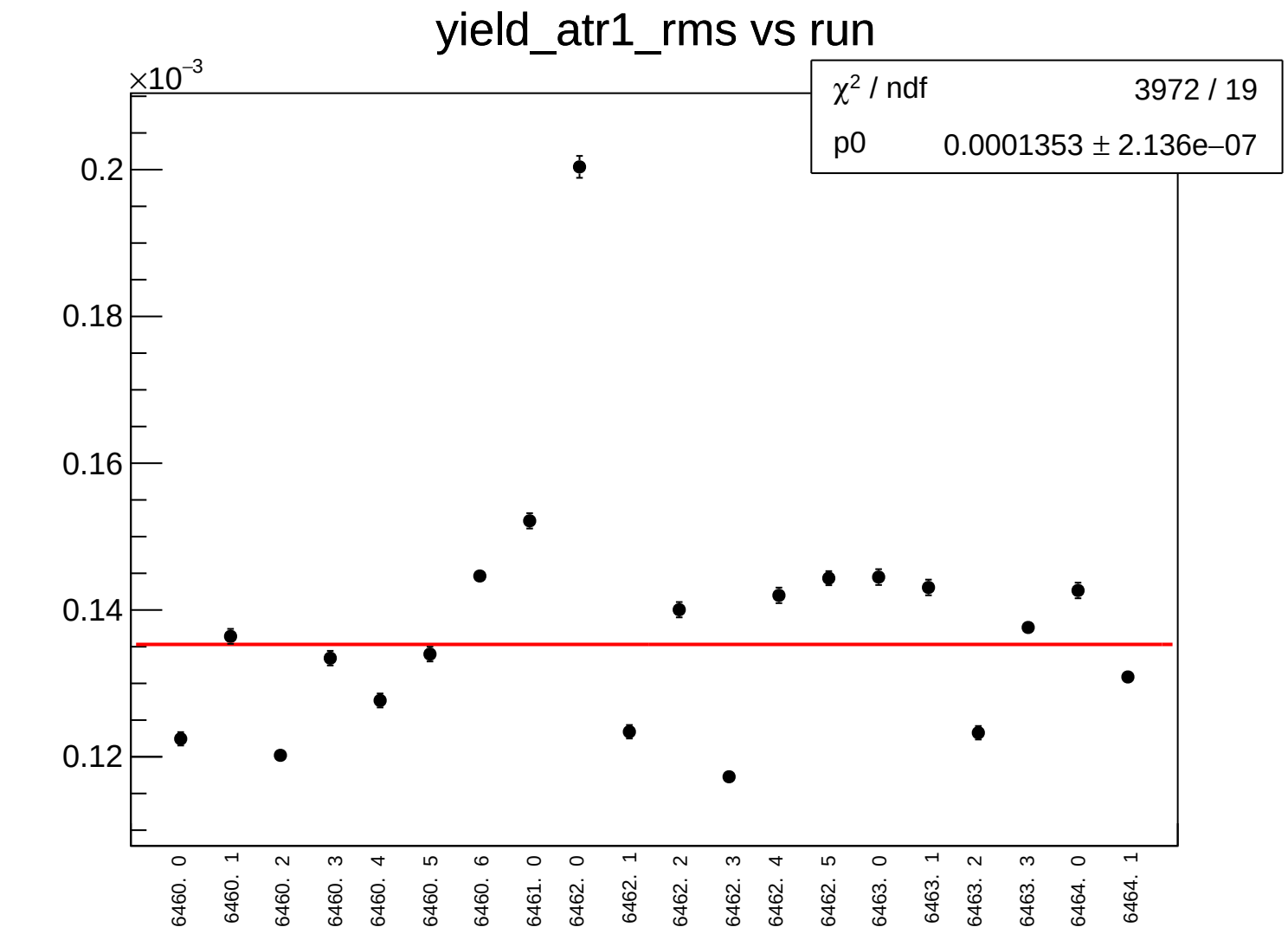

yield_atl2_mean vs run
χ² / ndf 6.597e+04 / 19
p0 0.02431± 5.771e–07
0.0246
0.0245
0.0244
0.0243
0.0242
0.0241
0.024
0.0239
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean –37.54
Std Dev 0
100
50
0
–50
–100

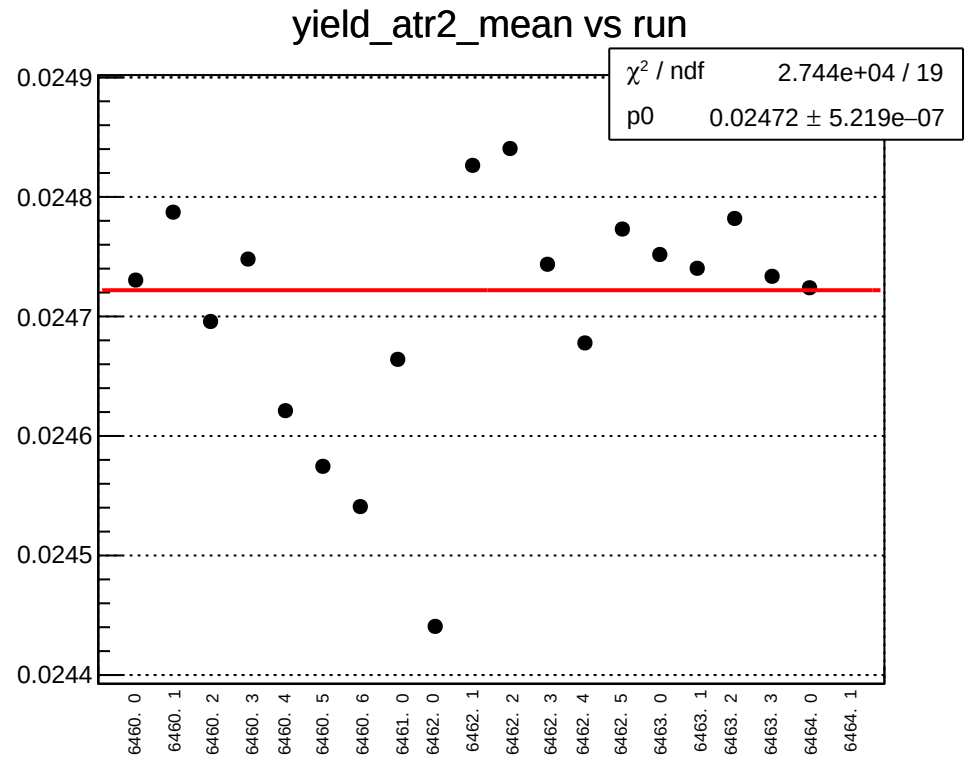

pull1D
Entries 20
Mean 6.343
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

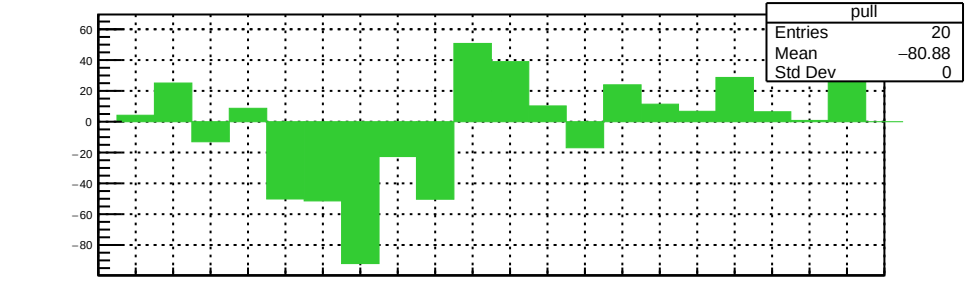

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.652e+04 / 19
p0 0.0002544 ± 4.081e−07
0.6
0.5
0.4
0.3
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

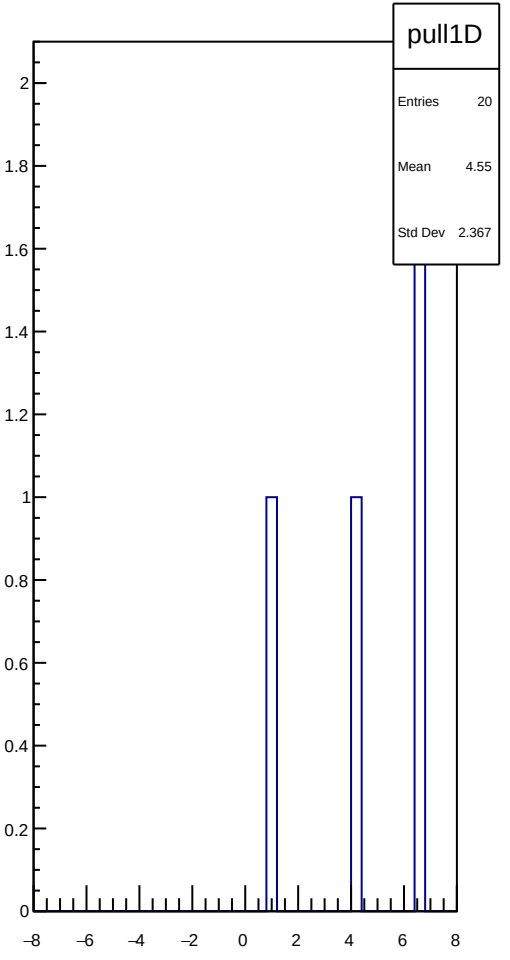

yield_atr1_mean vs run
χ² / ndf 7.294e+04 / 19
p0 0.03926 ± 3.021e–07
0.0395
0.03945
0.0394
0.03935
0.0393
0.03925
0.0392
0.03915
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3283
Std Dev 0
150
100
50
0
–50

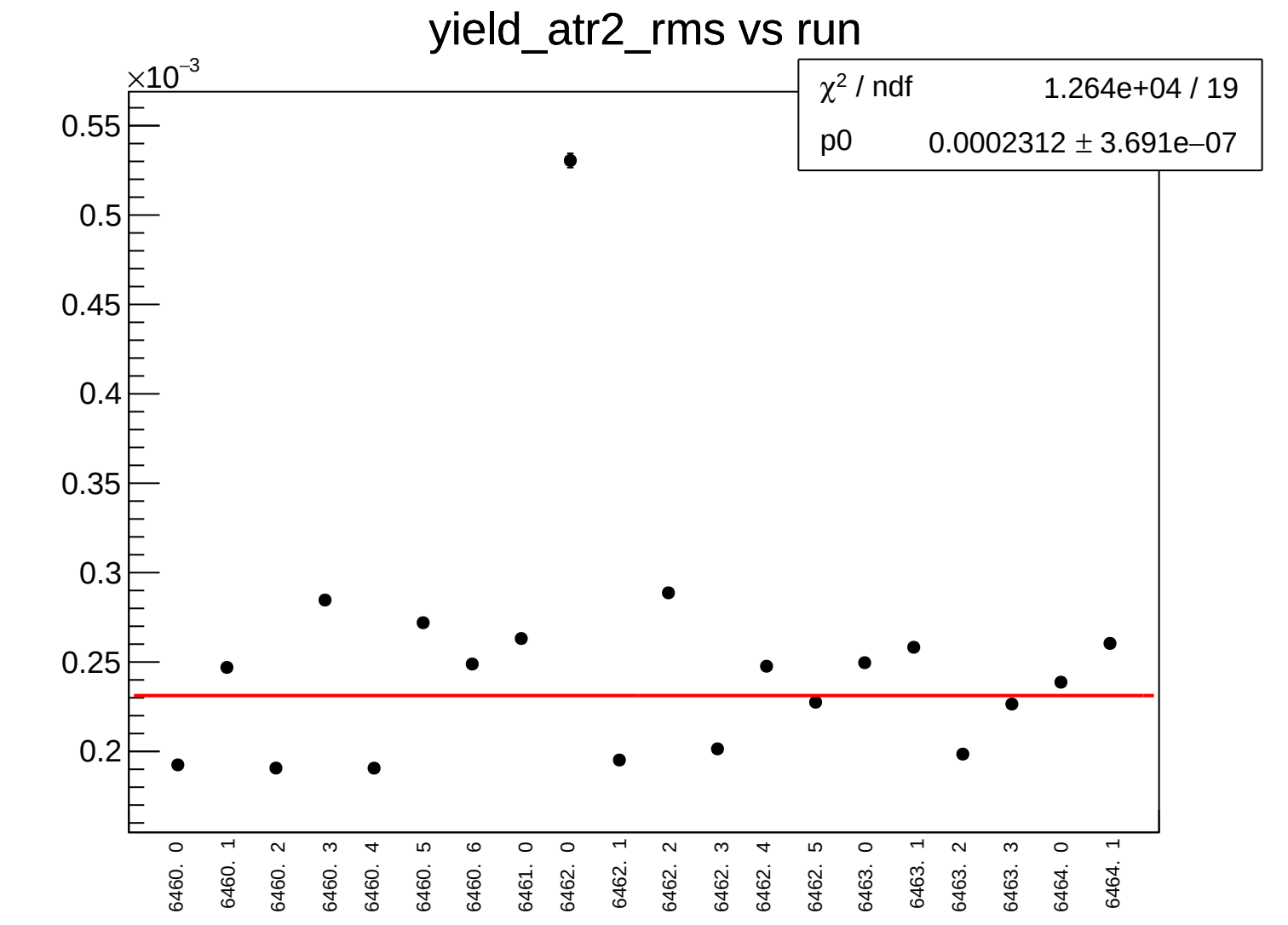

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

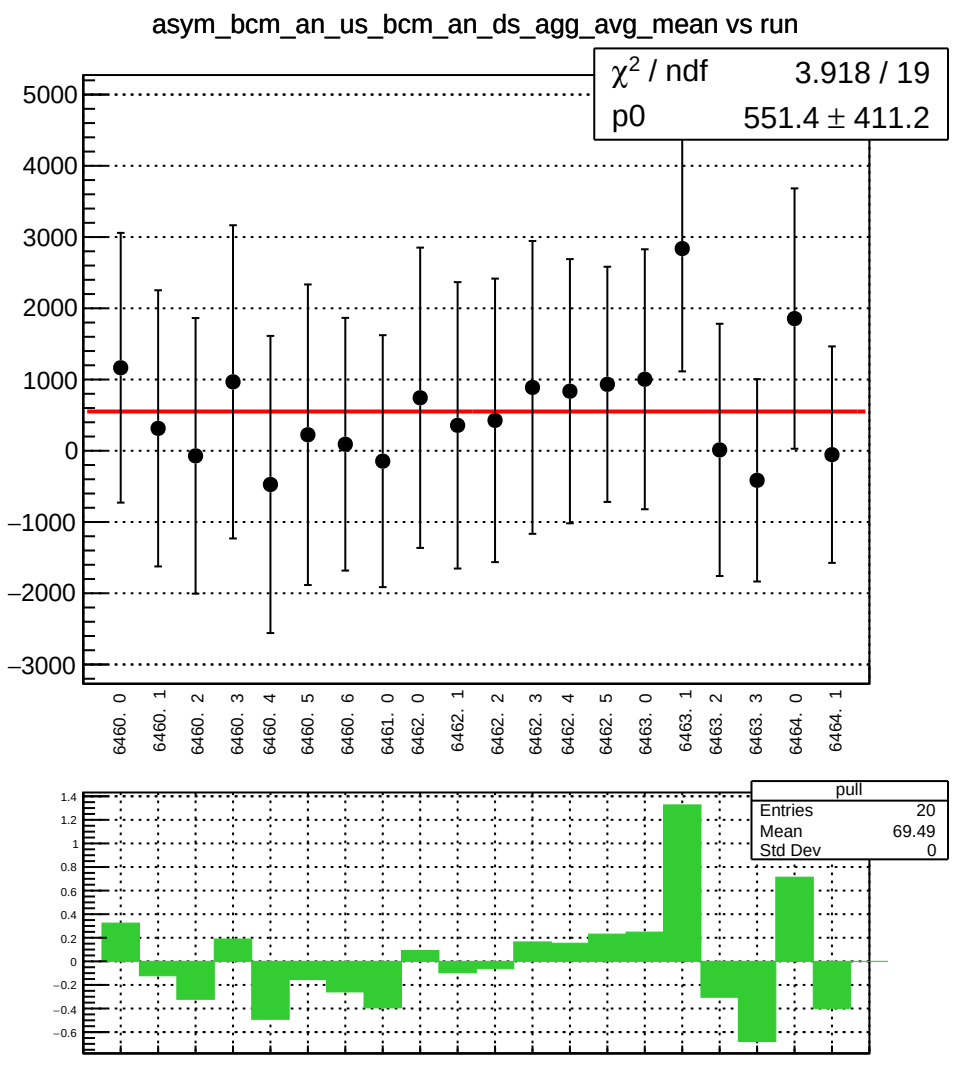

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3972 / 19
p0 0.0001353 ± 2.136e−07
0.2
0.18
0.16
0.14
0.12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

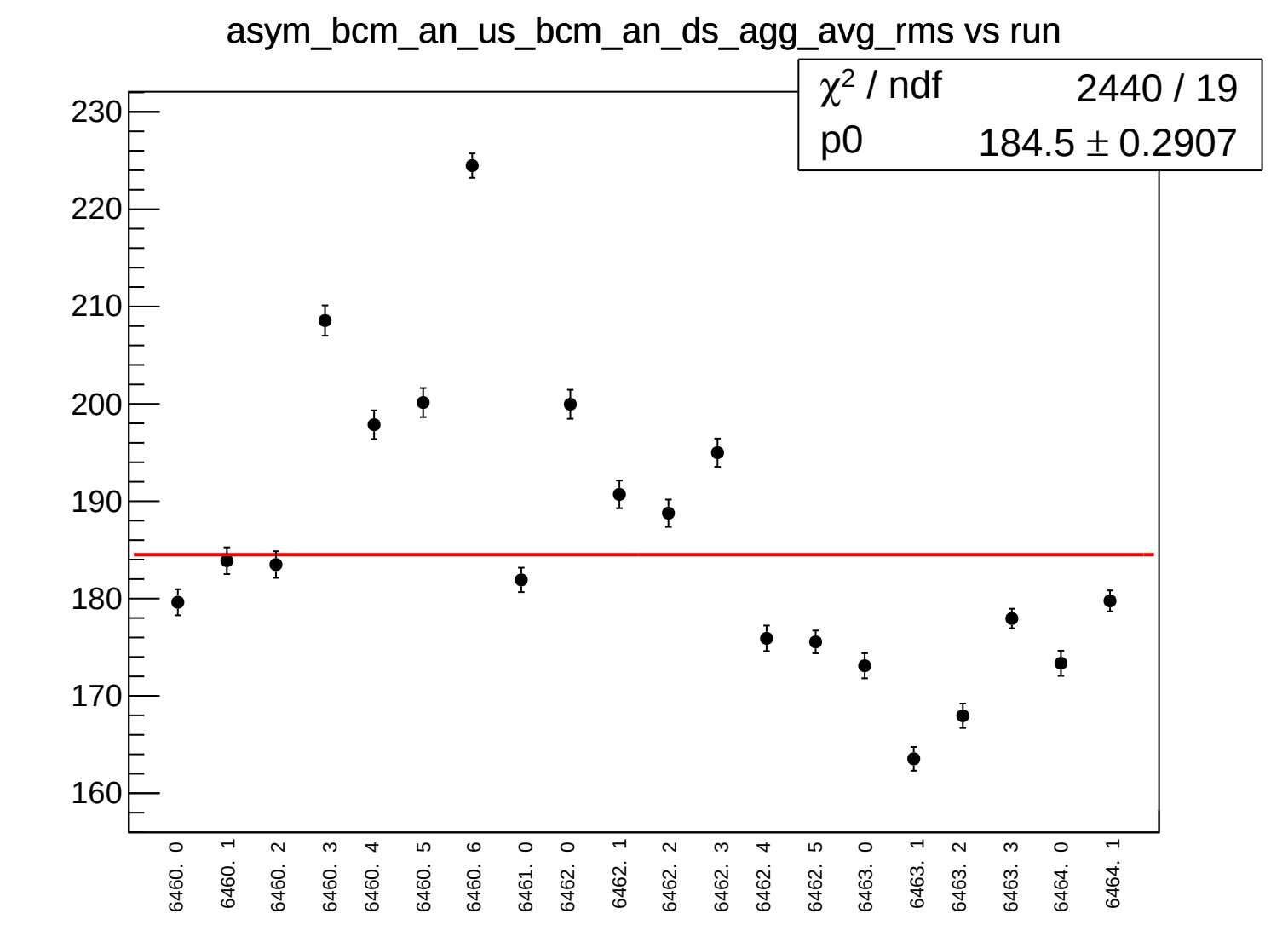

yield_atr2_mean vs run
χ² / ndf 2.744e+04 / 19
p0 0.02472 ± 5.219e–07
0.0249
0.0248
0.0247
0.0246
0.0245
0.0244
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

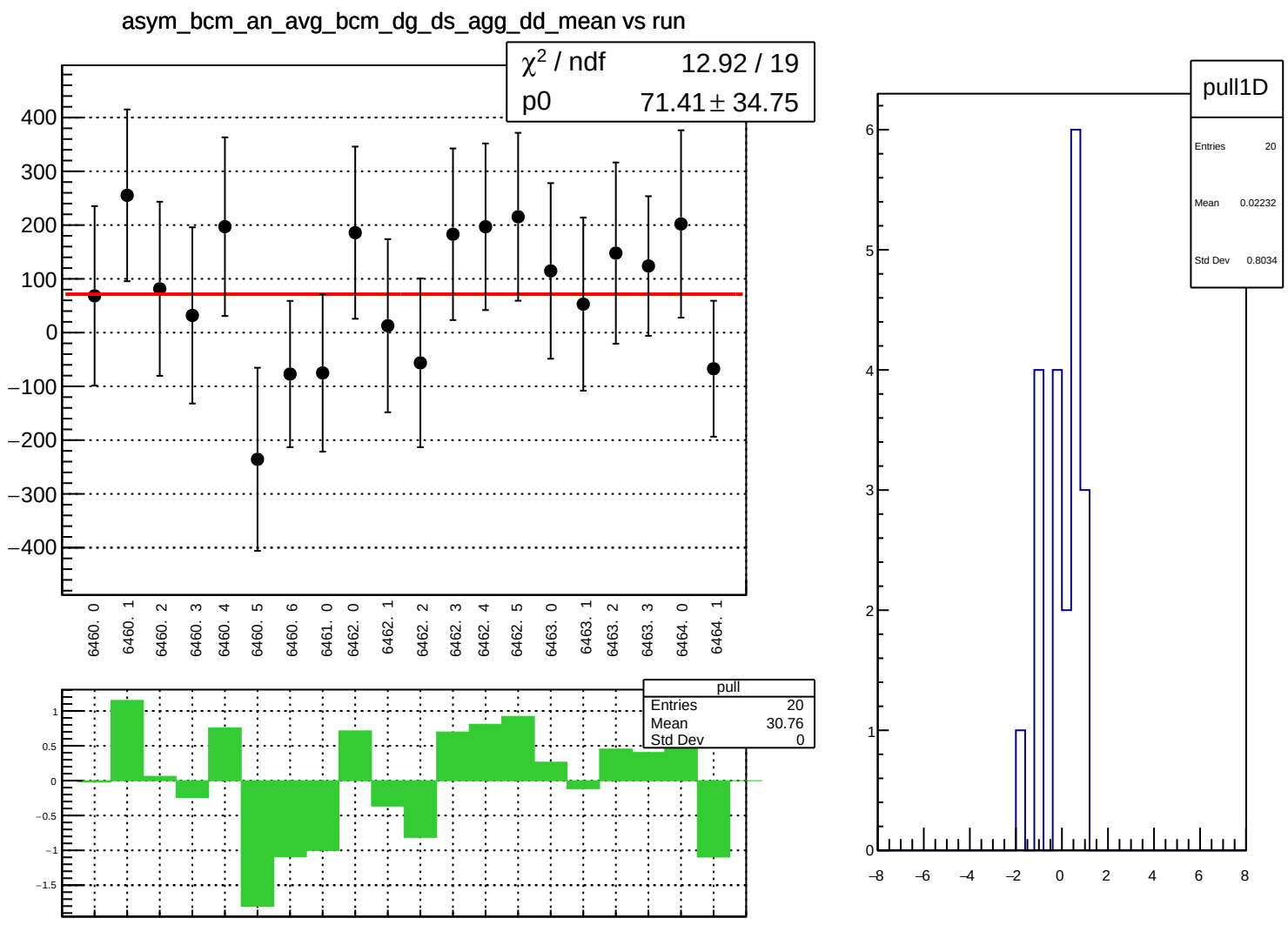

pull
Entries 20
Mean –80.88
Std Dev 0
60
40
20
0
–20
–40
–60
–80

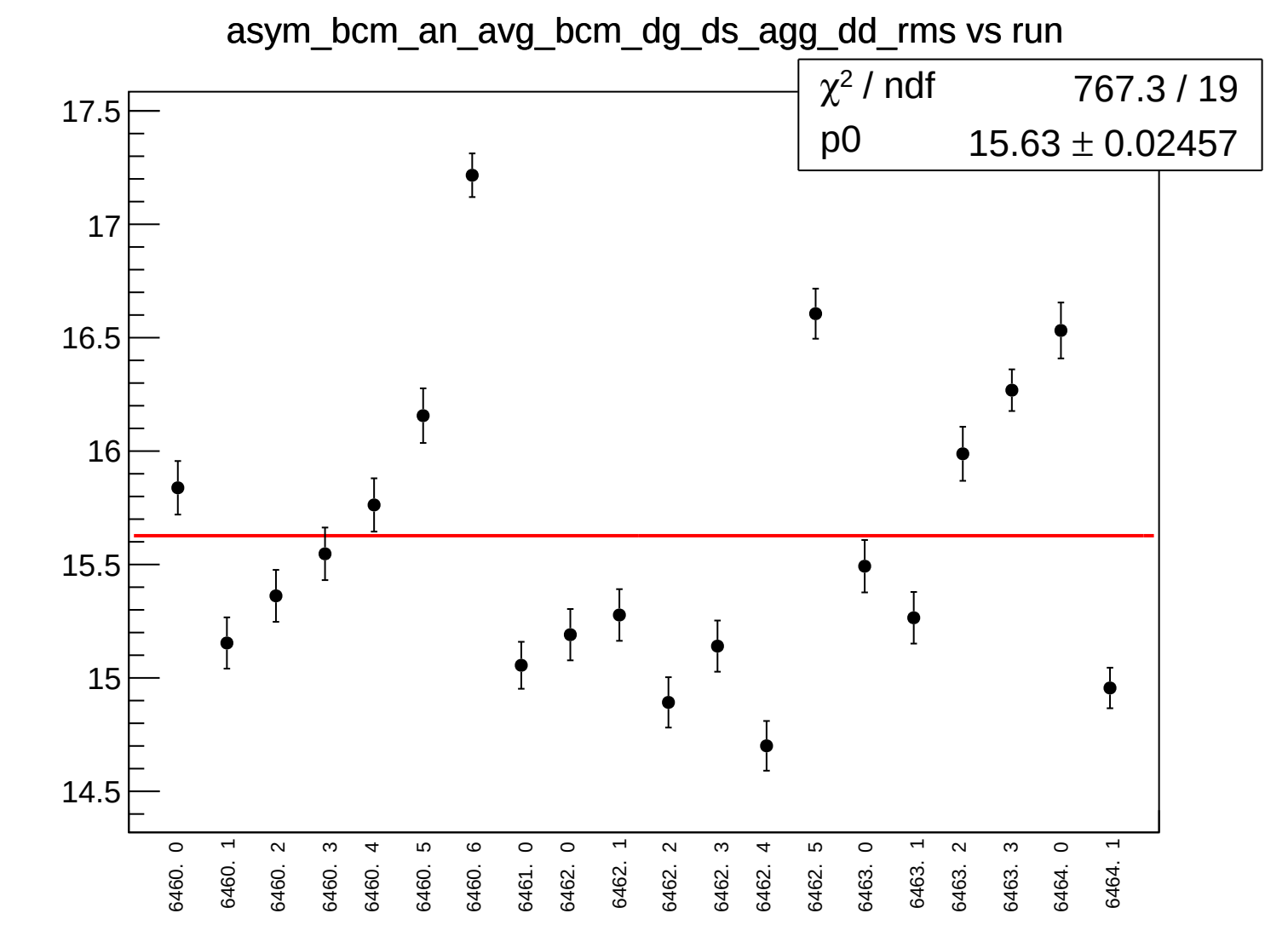

pull1D
Entries 20
Mean 4.55
Std Dev 2.367
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

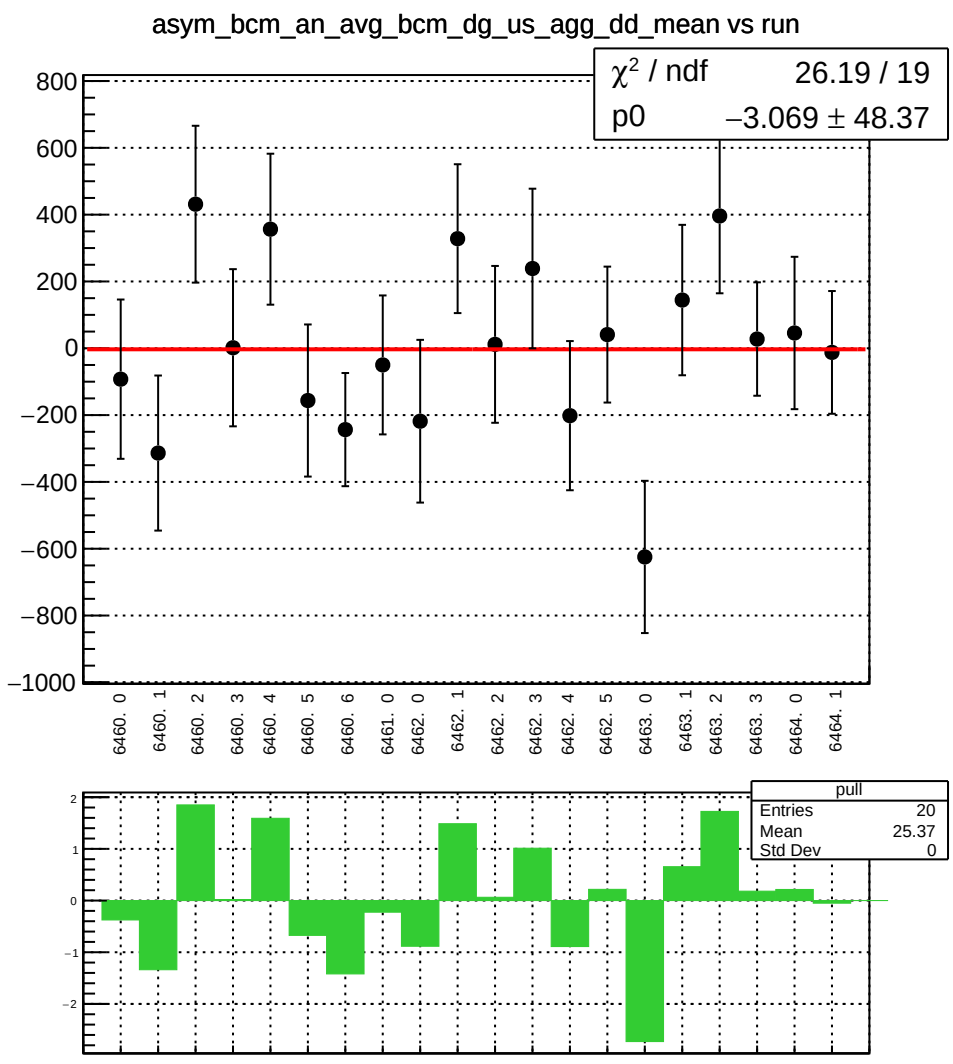

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.264e+04 / 19
p0 0.0002312 ± 3.691e−07
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

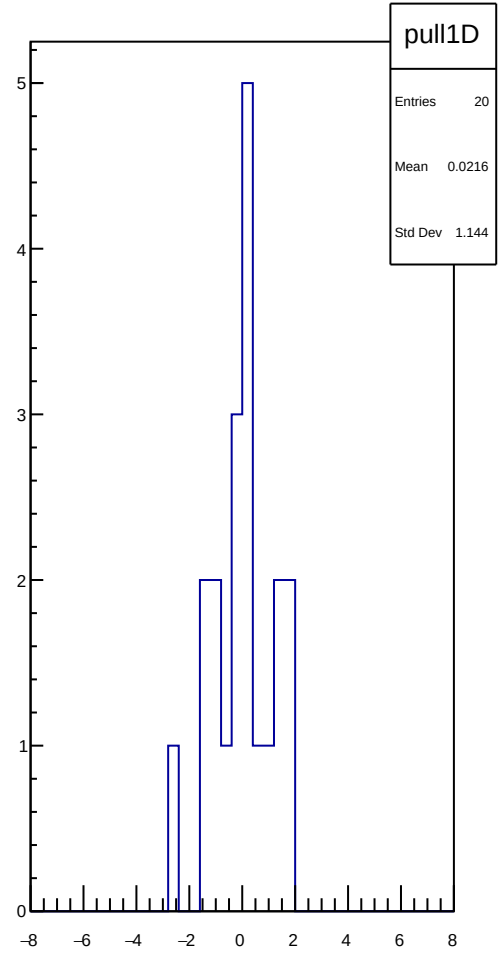

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.918 / 19
p0 551.4 ± 411.2
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.49
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 20
Mean 0.007869
Std Dev 0.4425
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

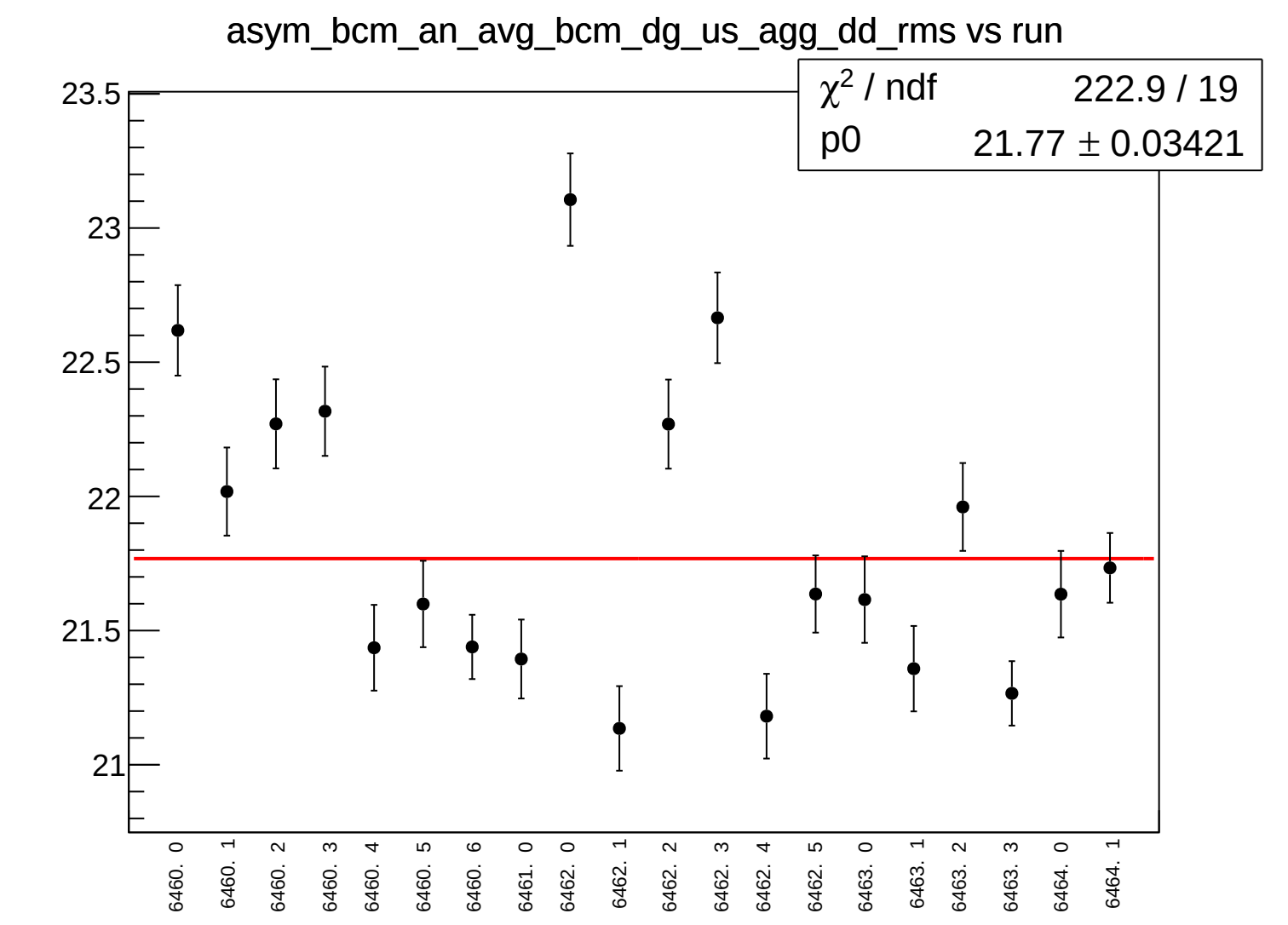

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2440 / 19
p0 184.5 ± 0.2907
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

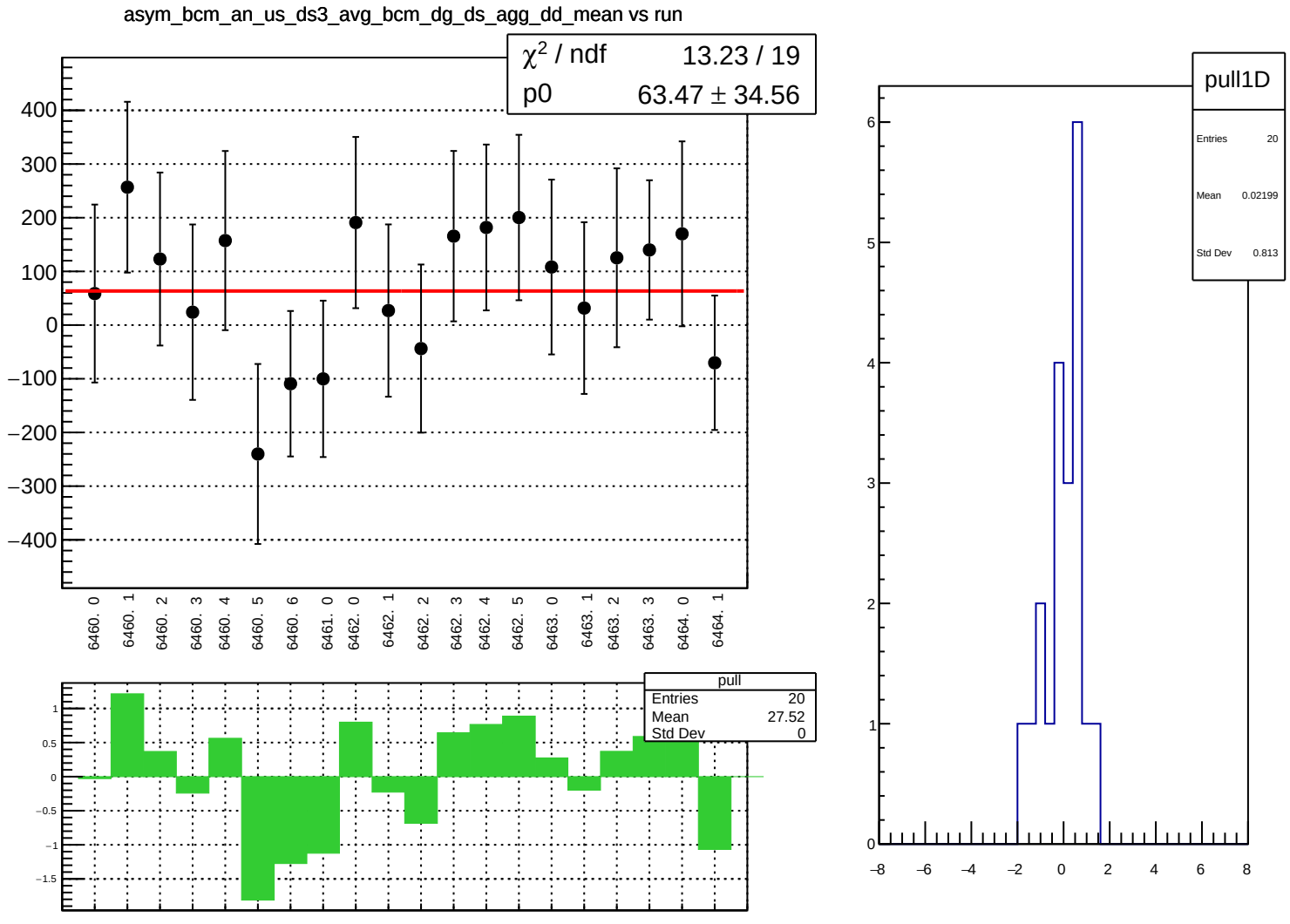

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 12.92 / 19
p0 71.41 ± 34.75
400
300
200
100
0
−100
−200
−300
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02232
Std Dev 0.8034
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

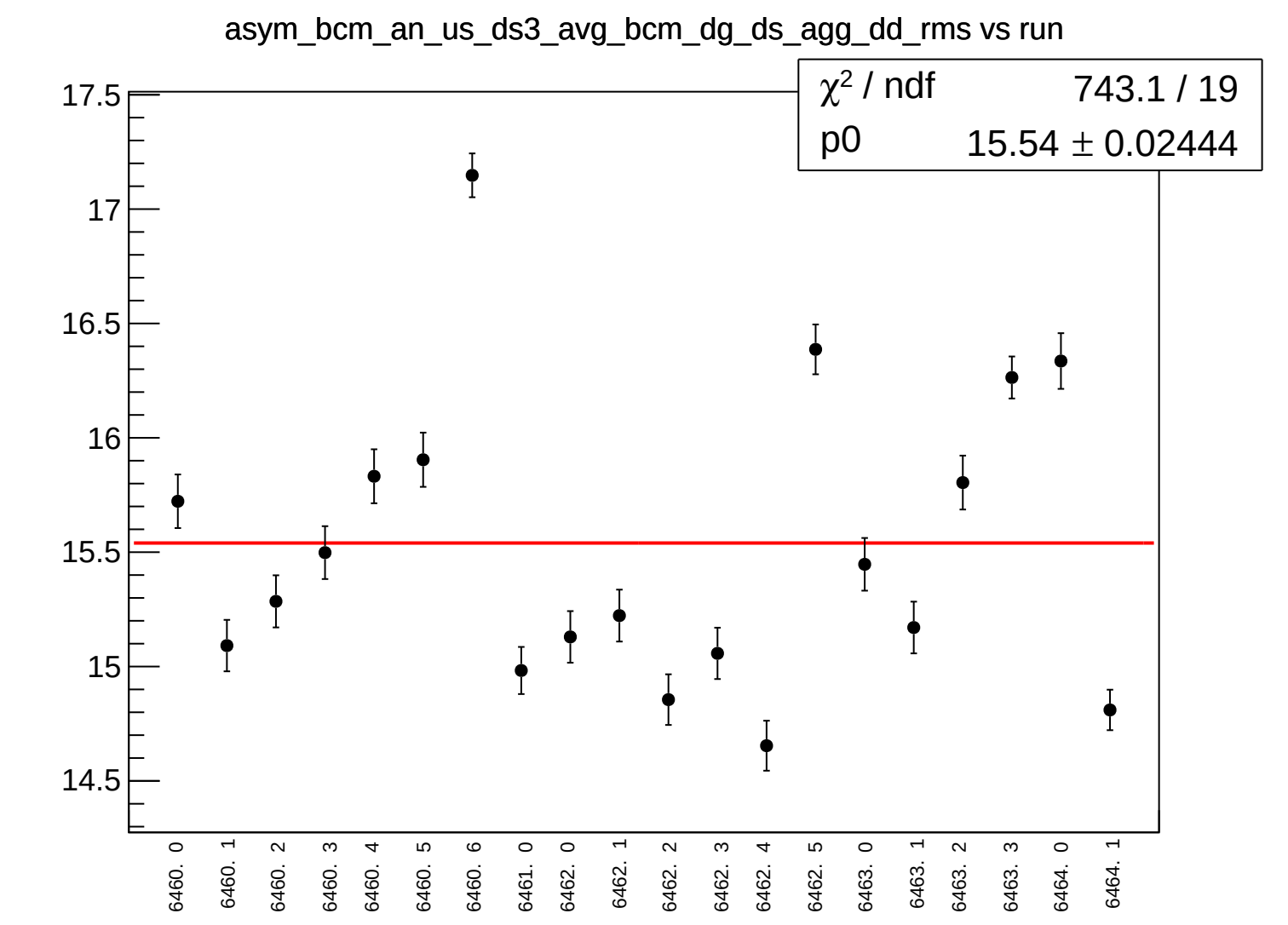

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 767.3 / 19
p0 15.63 ± 0.02457
17.5
17
16.5
16
15.5
15
14.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

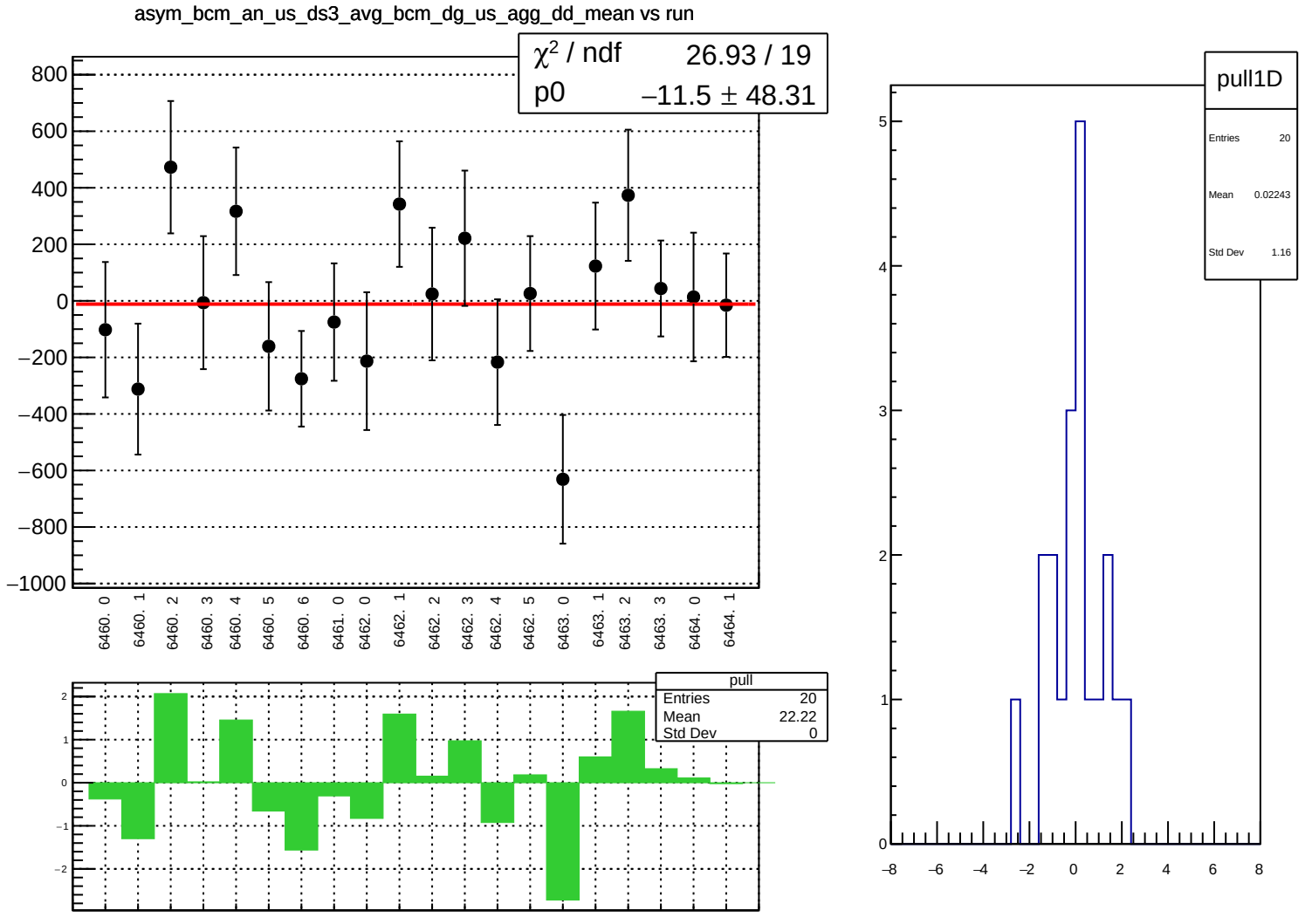

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 26.19 / 19
p0 −3.069 ± 48.37
800
600
400
200
0
−200
−400
−600
−800
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 25.37
Std Dev 0
2
1
0
−1
−2

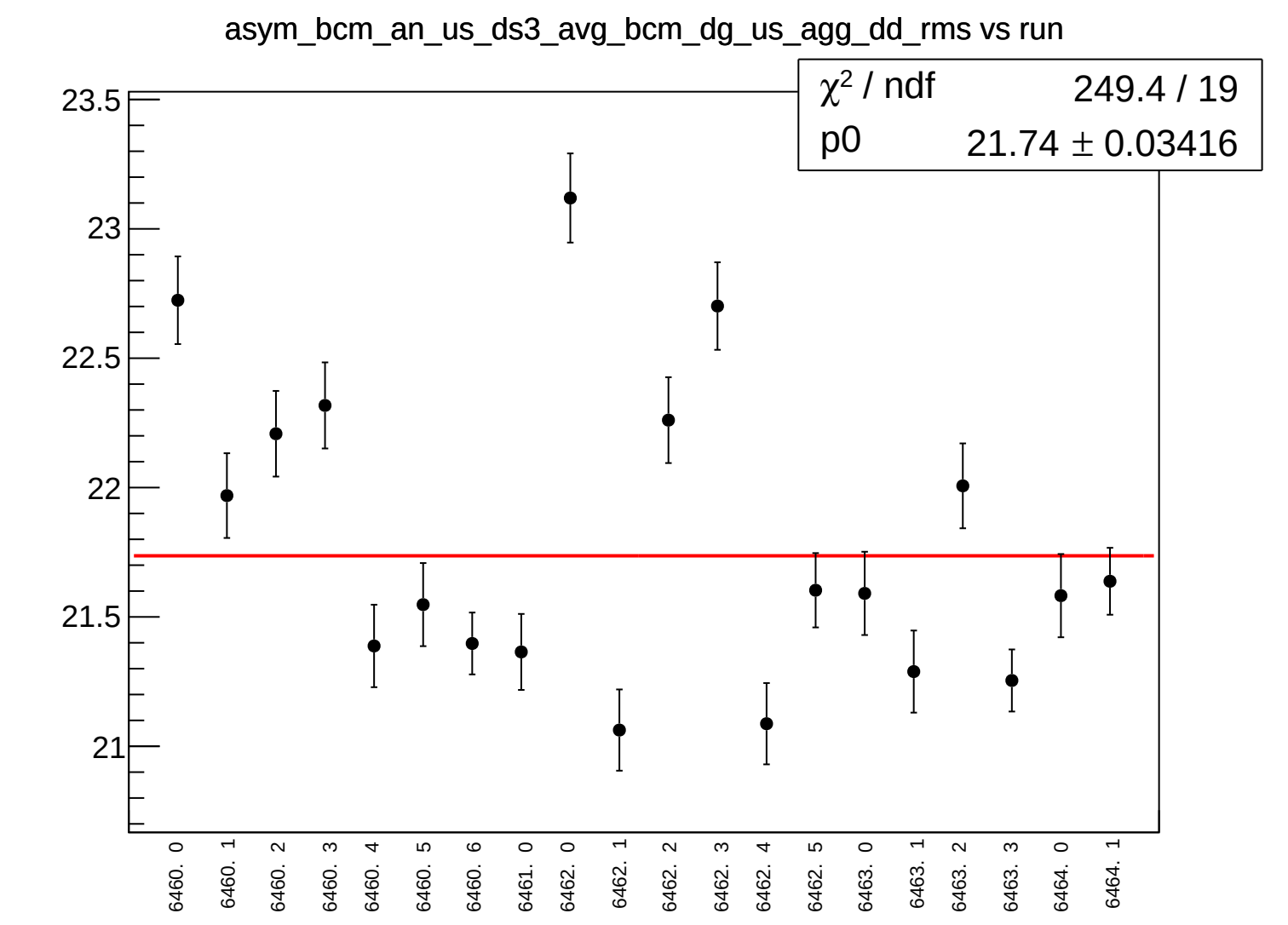

pull1D
Entries 20
Mean 0.0216
Std Dev 1.144
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

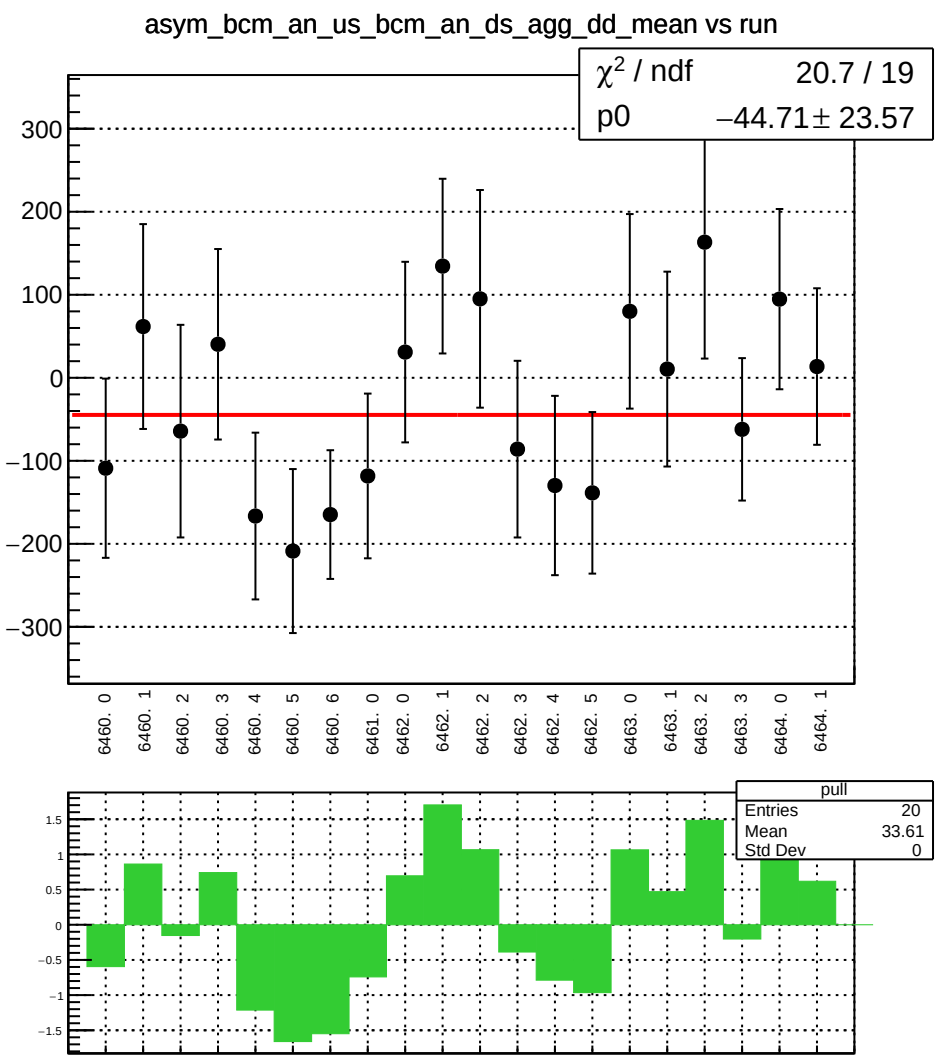

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 222.9 / 19
p0 21.77 ± 0.03421
23.5
23
22.5
22
21.5
21
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

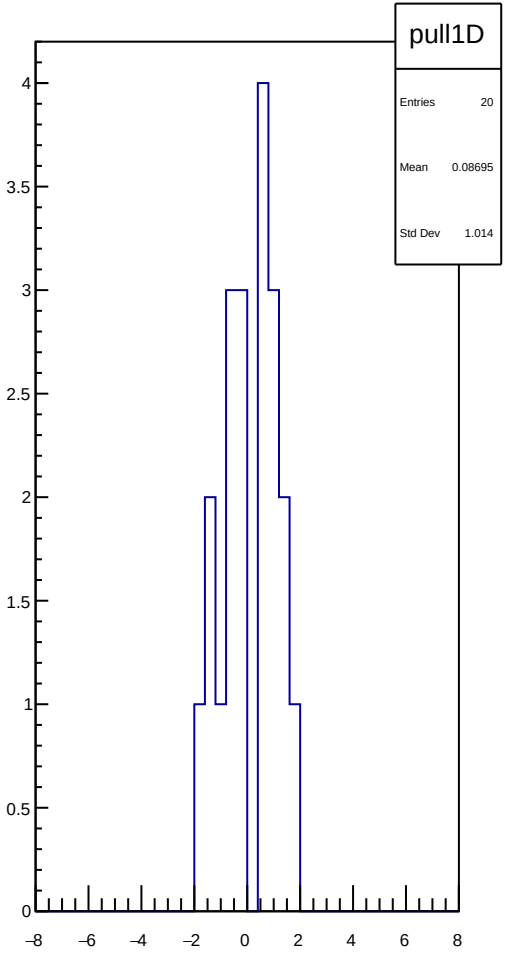

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 13.23 / 19
p0 63.47 ± 34.56
400
300
200
100
0
−100
−200
−300
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.52
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02199
Std Dev 0.813
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

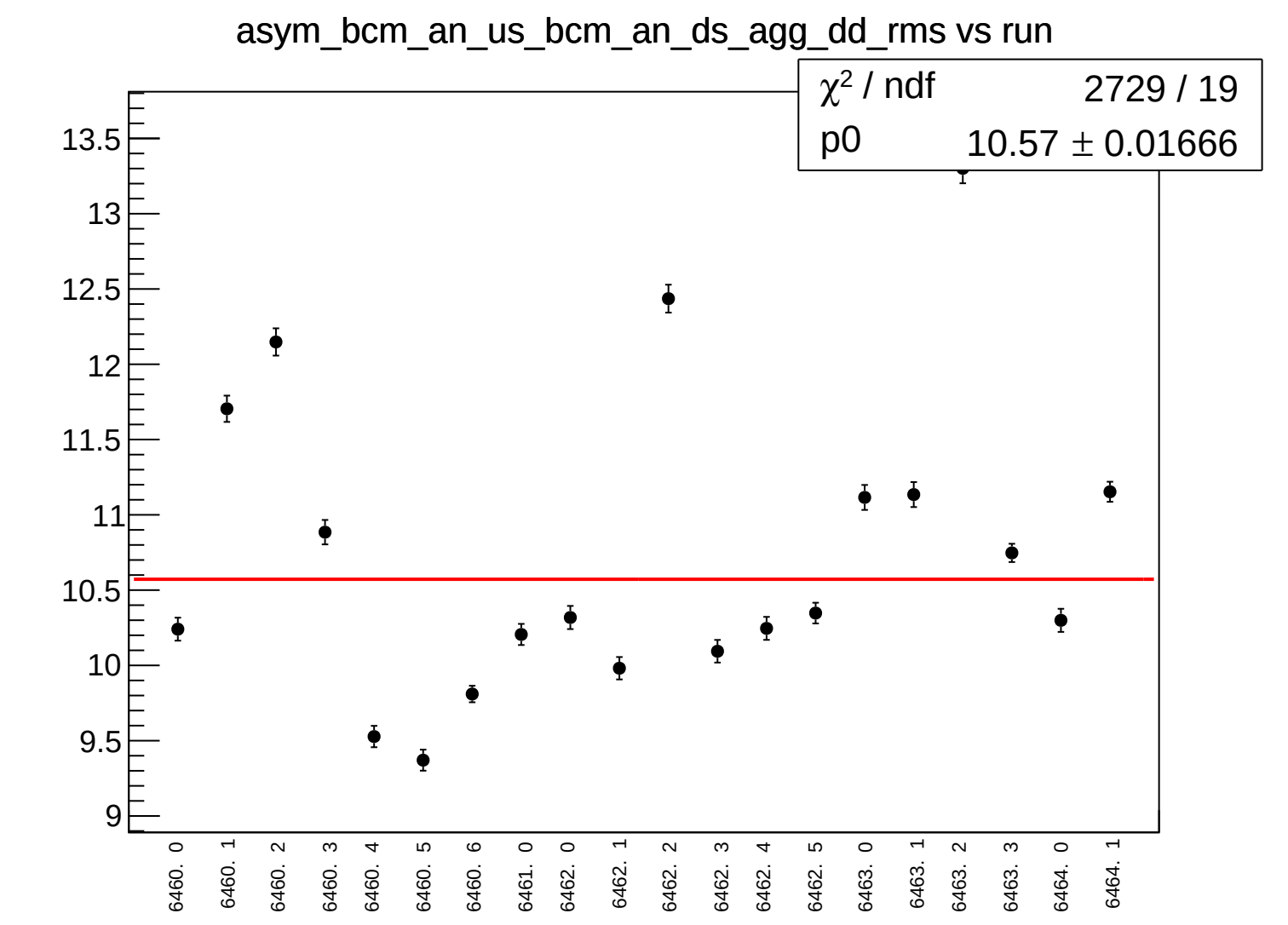

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 743.1 / 19
p0 15.54 ± 0.02444
17.5
17
16.5
16
15.5
15
14.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

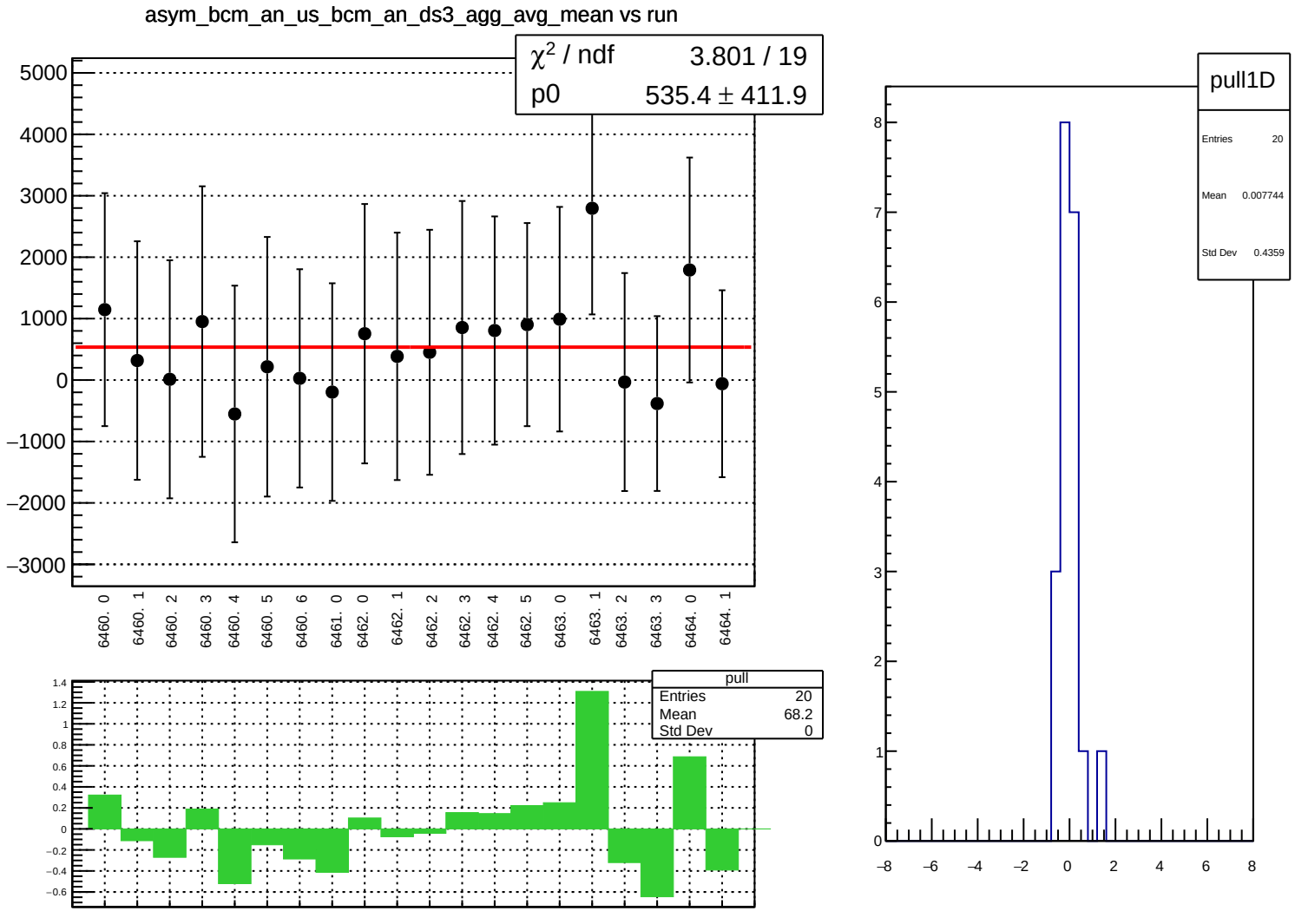

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 26.93 / 19
p0 −11.5 ± 48.31
800
600
400
200
0
−200
−400
−600
−800
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 22.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.02243
Std Dev 1.16
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

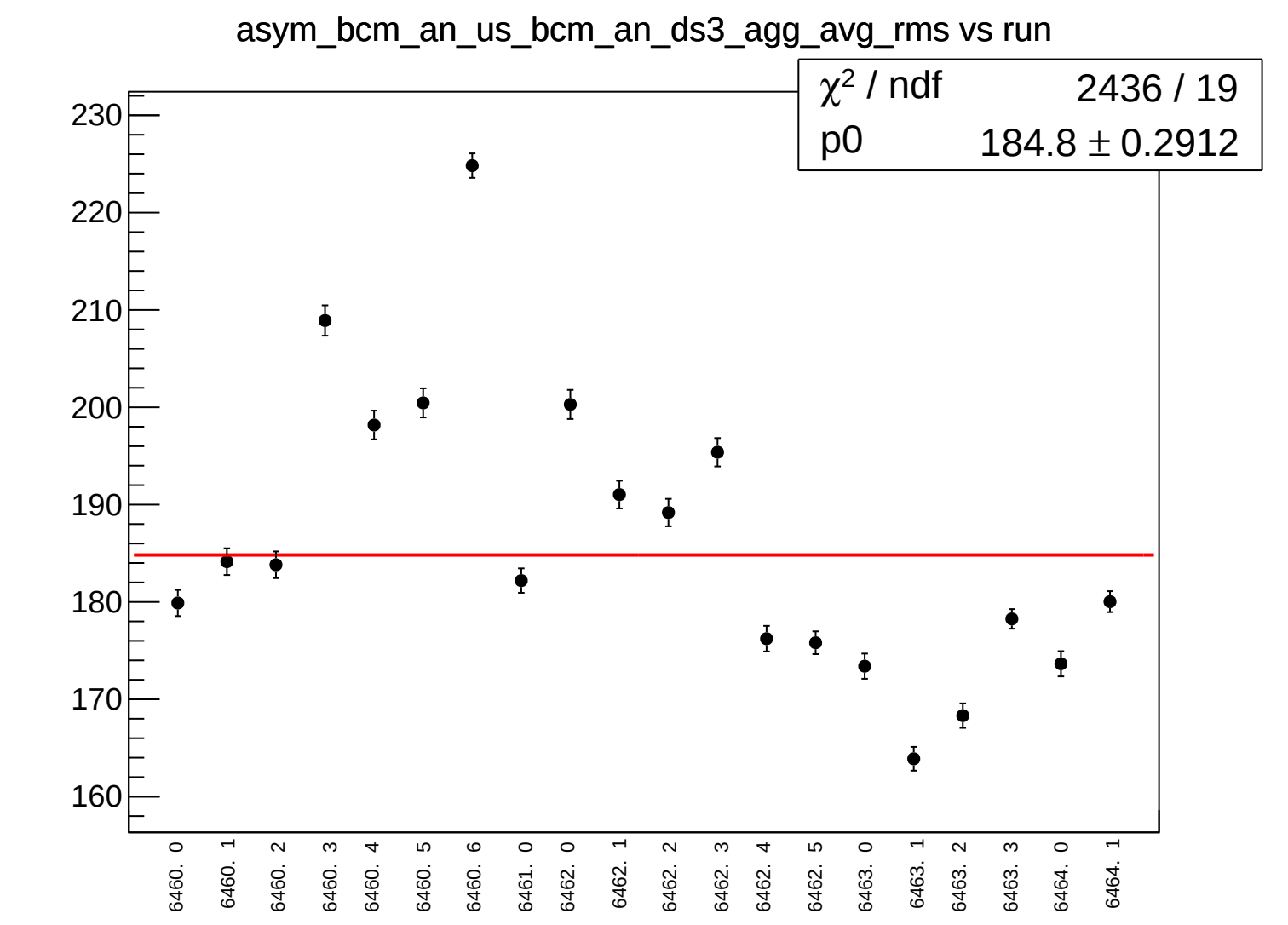

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 249.4 / 19
p0 21.74 ± 0.03416
23.5
23
22.5
22
21.5
21
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

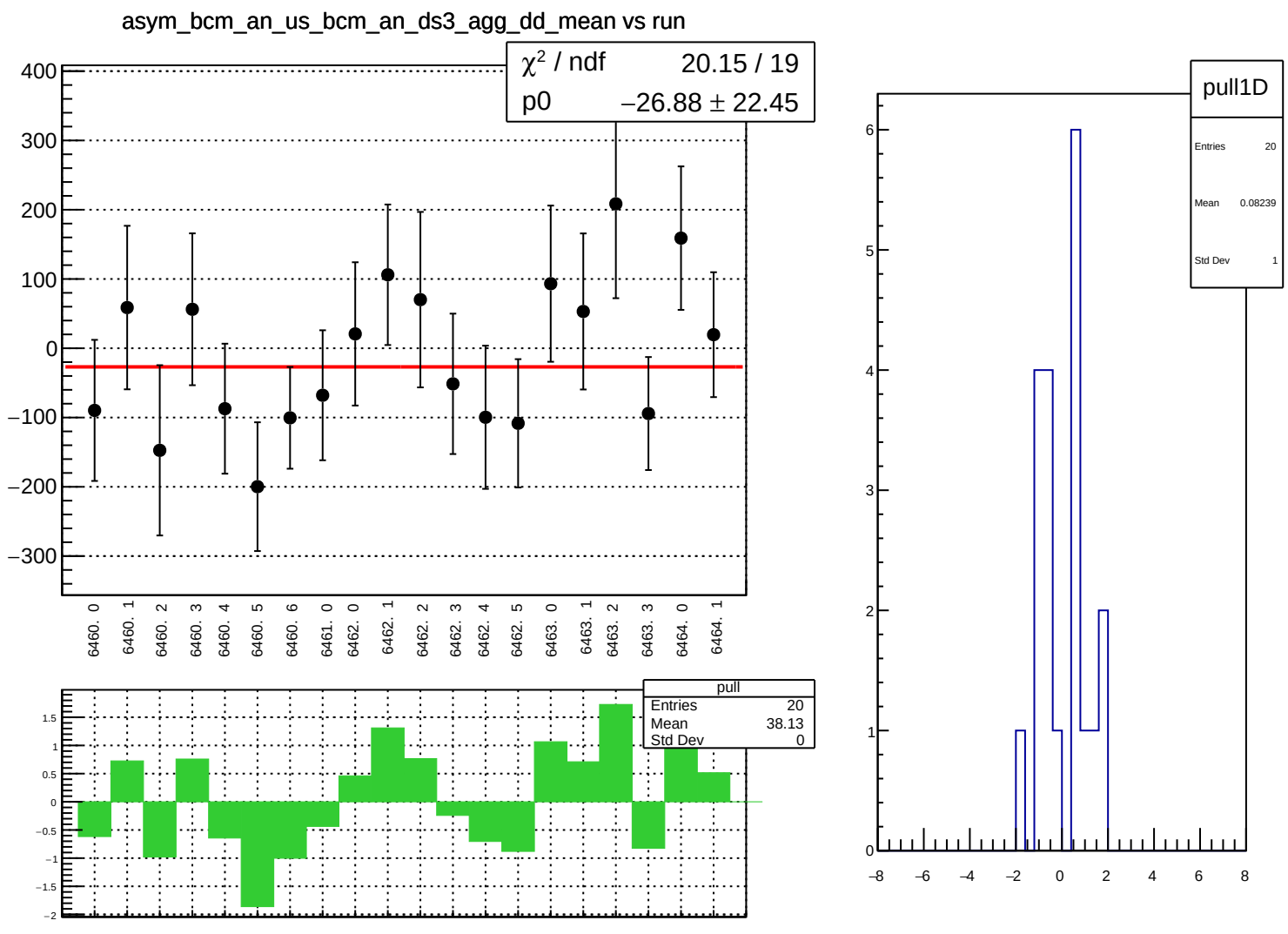

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 20.7 / 19
p0 −44.71± 23.57
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

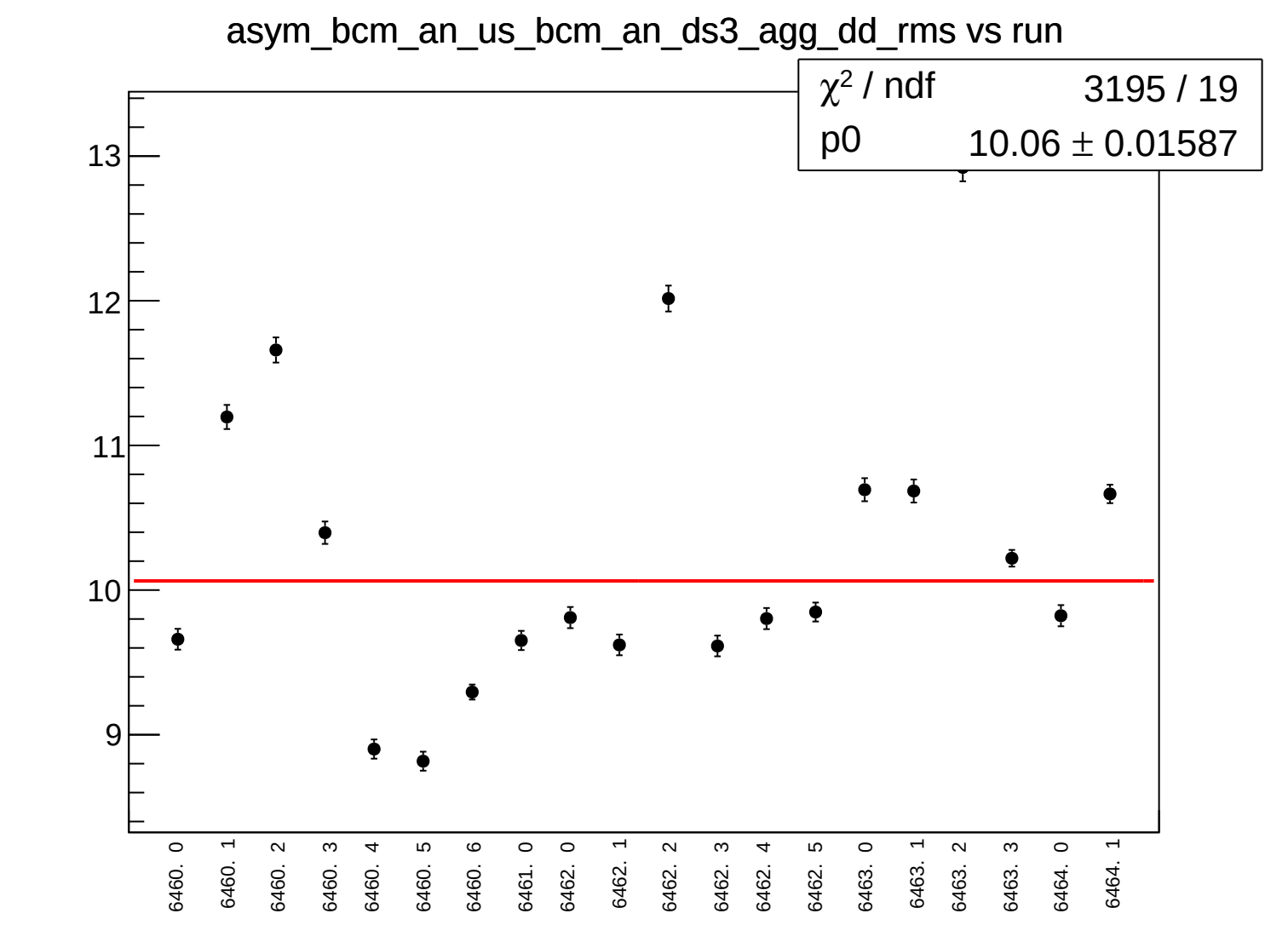

pull1D
Entries 20
Mean 0.08695
Std Dev 1.014
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

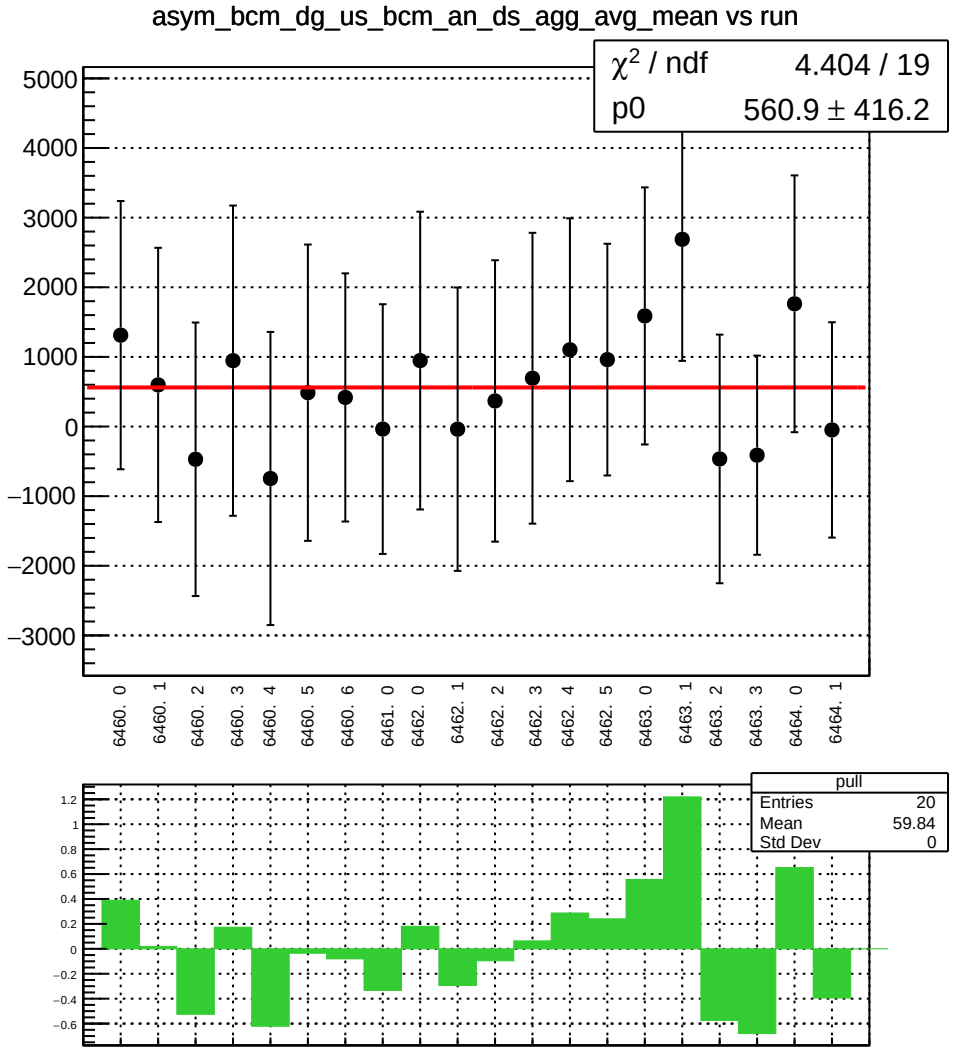

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2729 / 19
p0 10.57 ± 0.01666
13.5
13
12.5
12
11.5
11
10.5
10
9.5
9
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

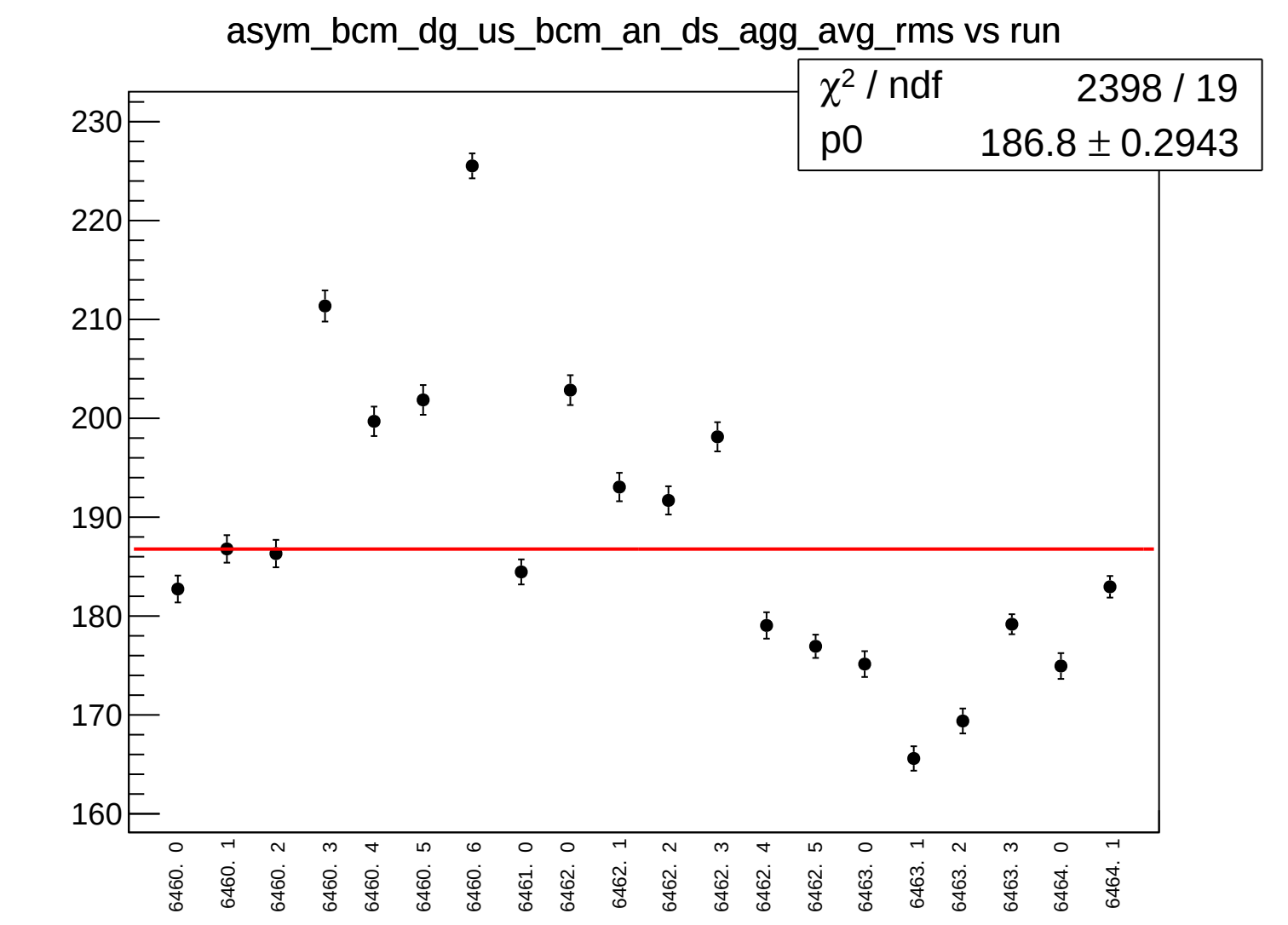

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 3.801 / 19
p0 535.4 ± 411.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 68.2
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 20
Mean 0.007744
Std Dev 0.4359
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

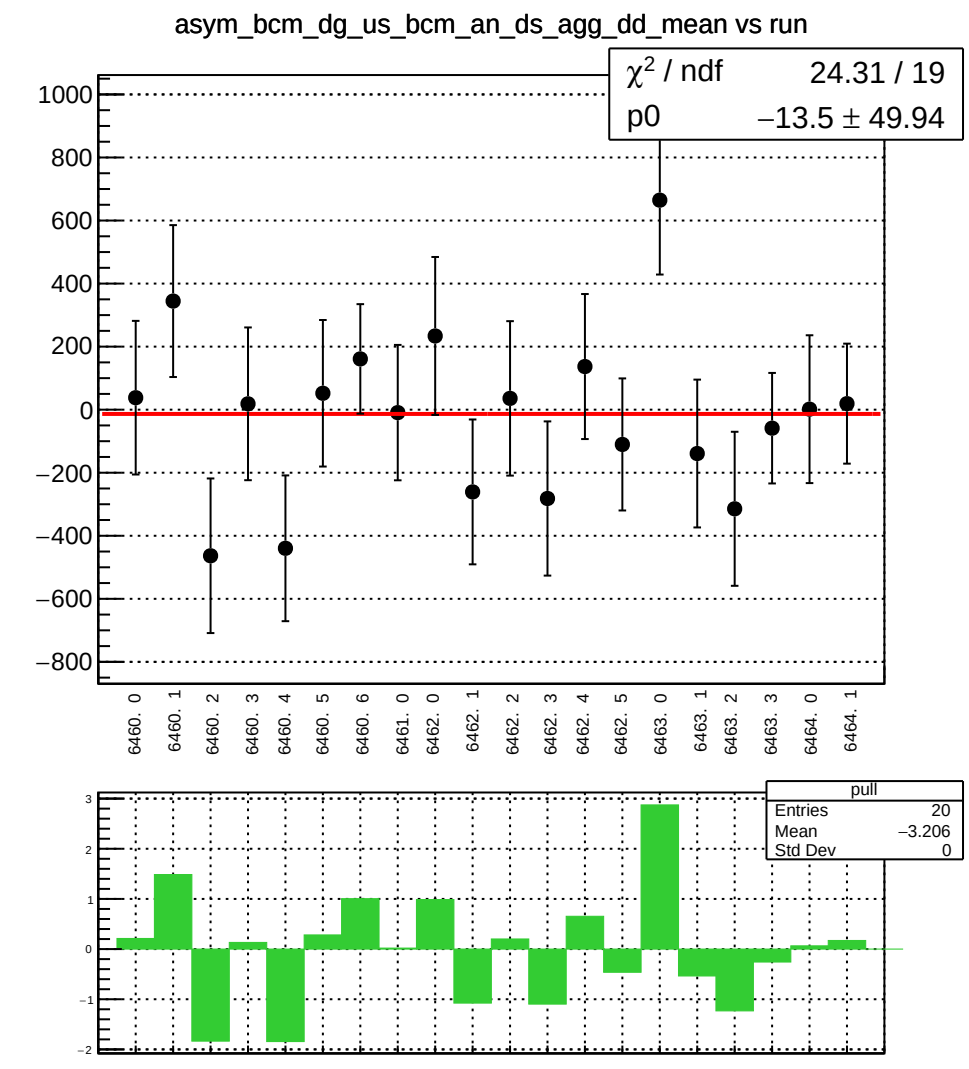

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2436 / 19
p0 184.8 ± 0.2912
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

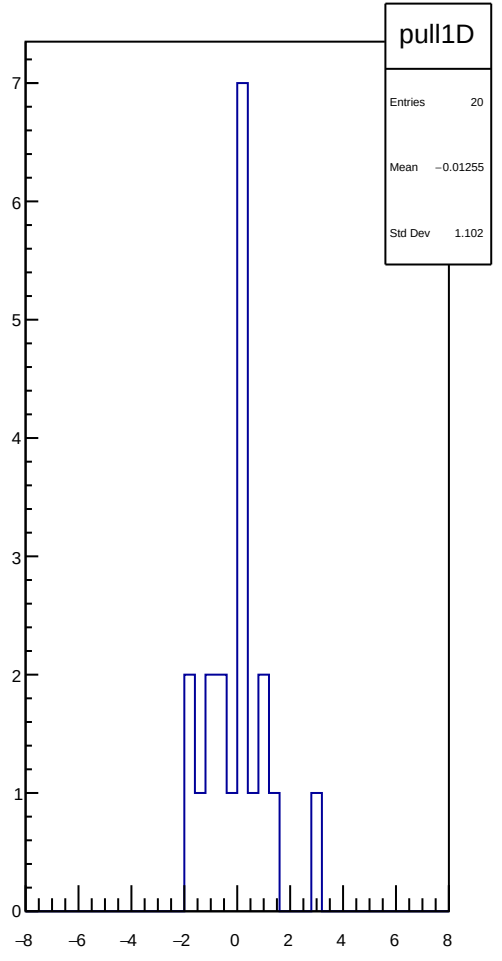

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 20.15 / 19
p0 −26.88 ± 22.45
400
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.08239
Std Dev 1
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

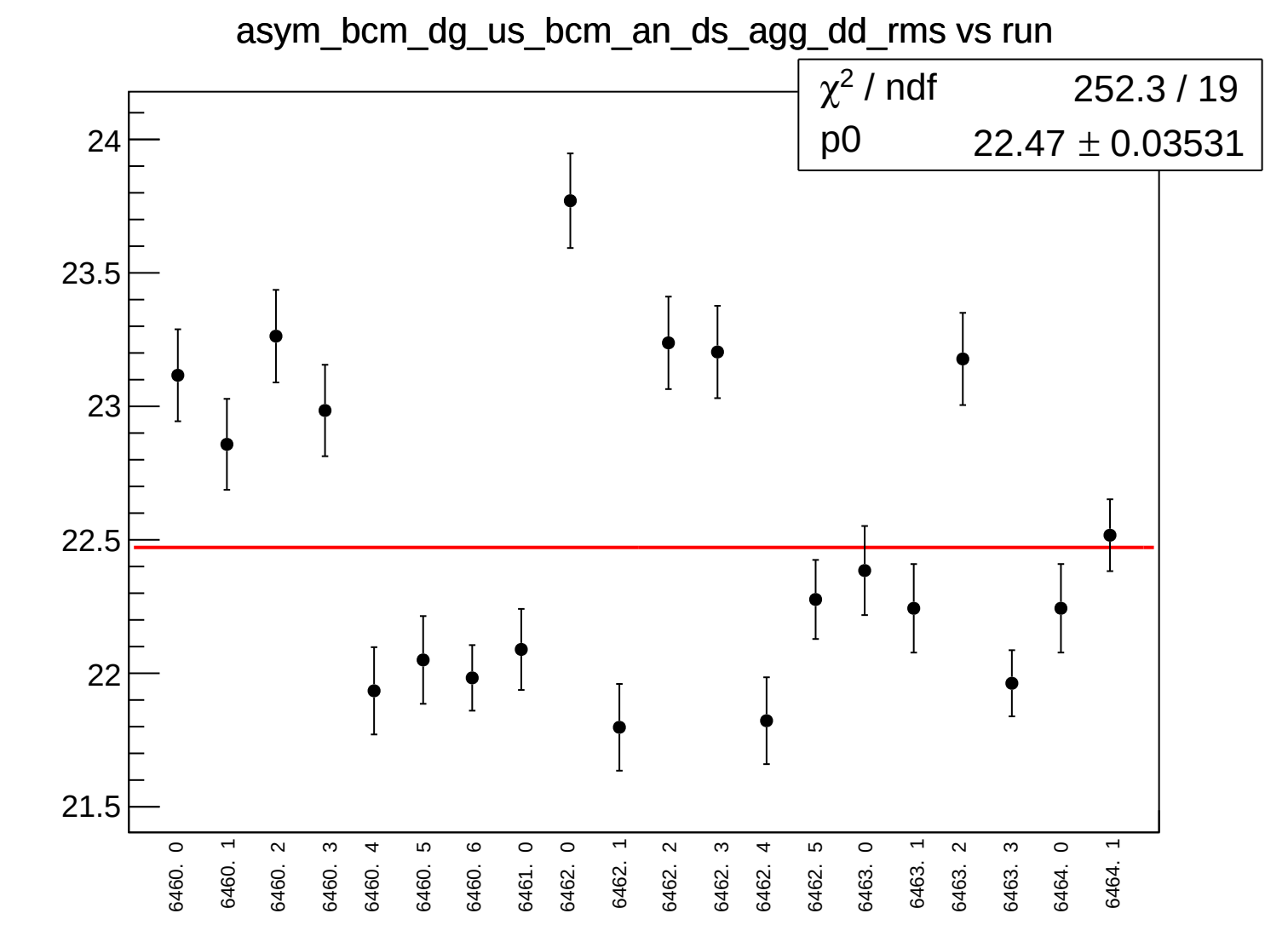

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3195 / 19
p0 10.06 ± 0.01587
13
12
11
10
9
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

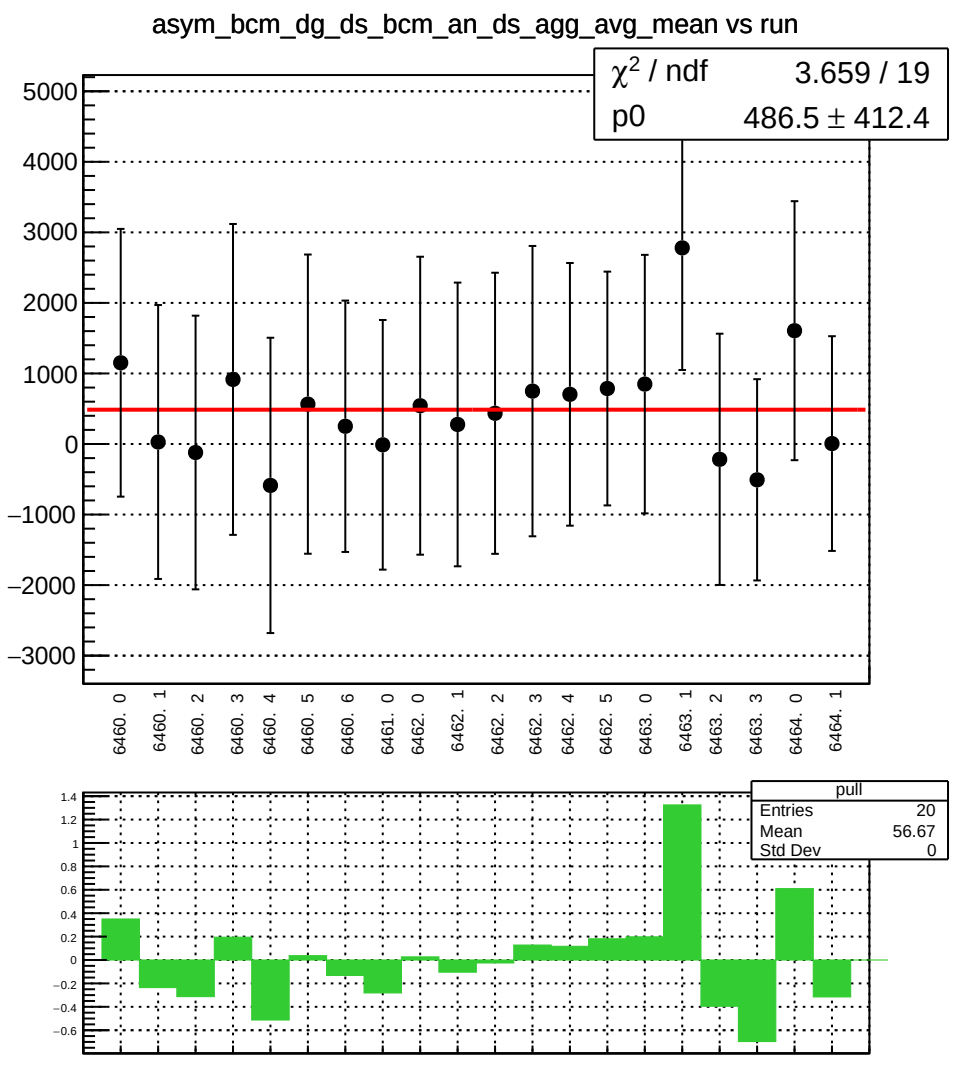

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.404 / 19
p0 560.9 ± 416.2
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.84
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.007315
Std Dev 0.4692
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

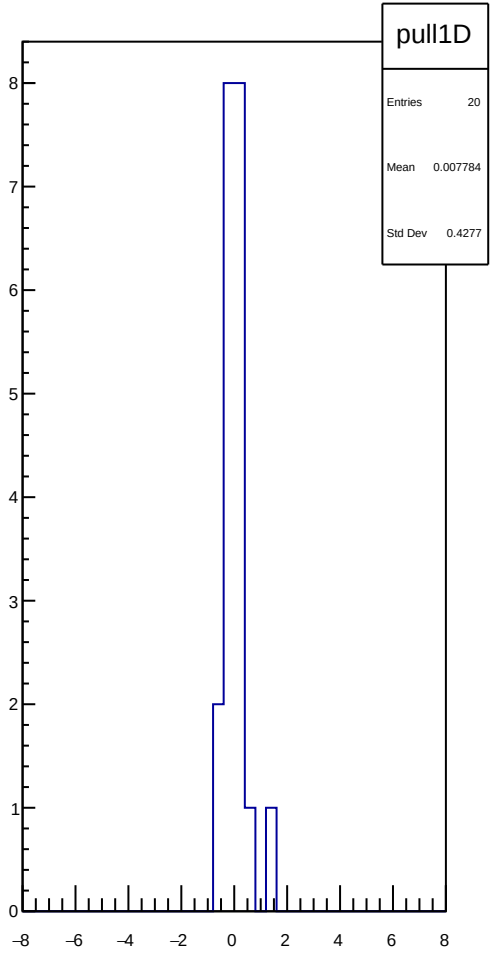

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2398 / 19
p0 186.8 ± 0.2943
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

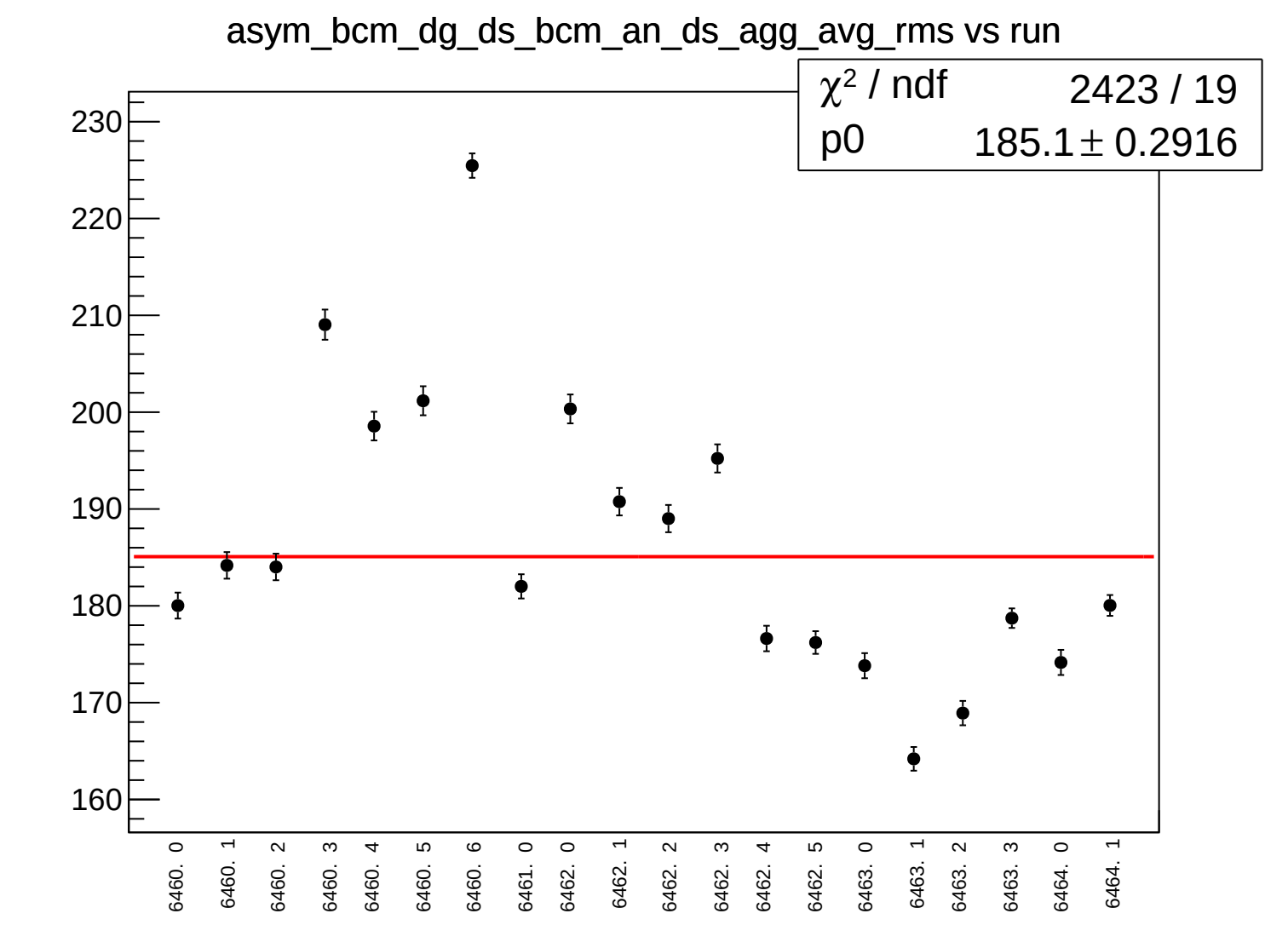

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 24.31 / 19
p0 −13.5 ± 49.94
1000
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −3.206
Std Dev 0
3
2
1
0
−1
−2

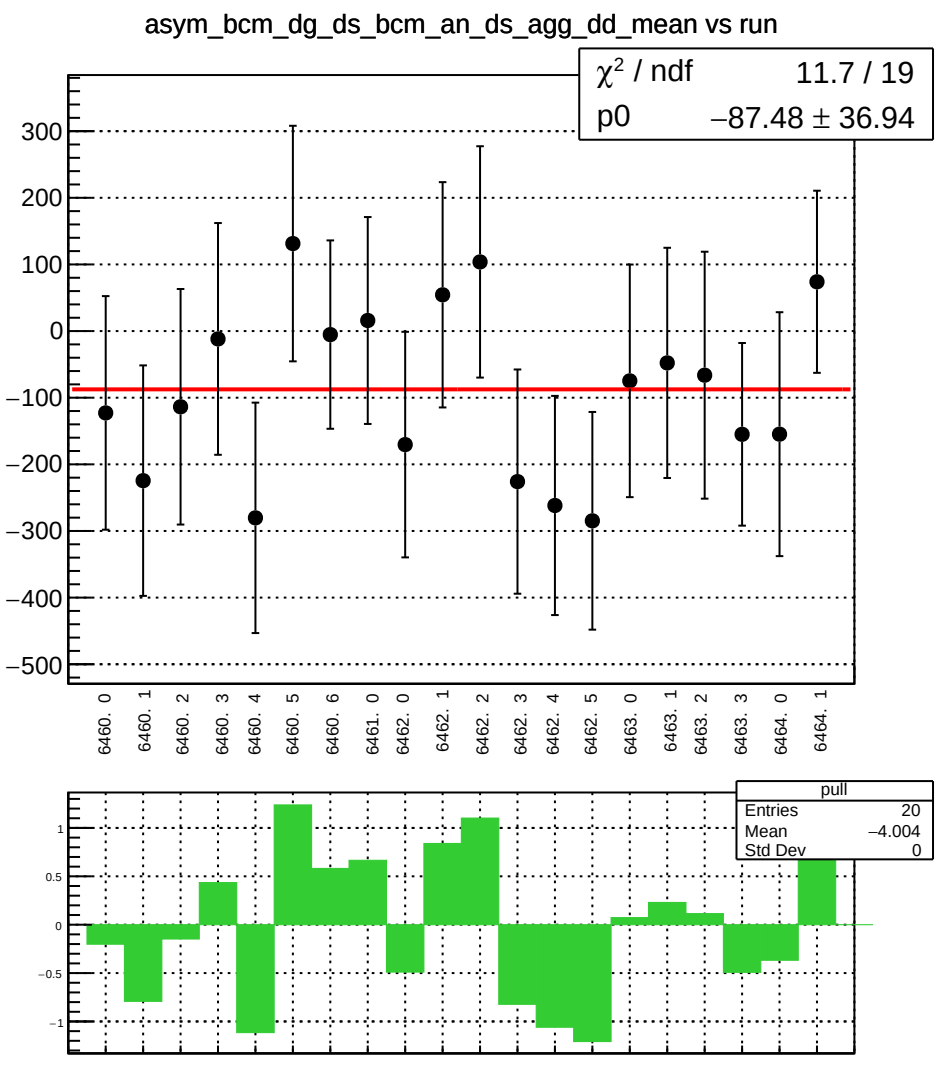

pull1D
Entries 20
Mean −0.01255
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

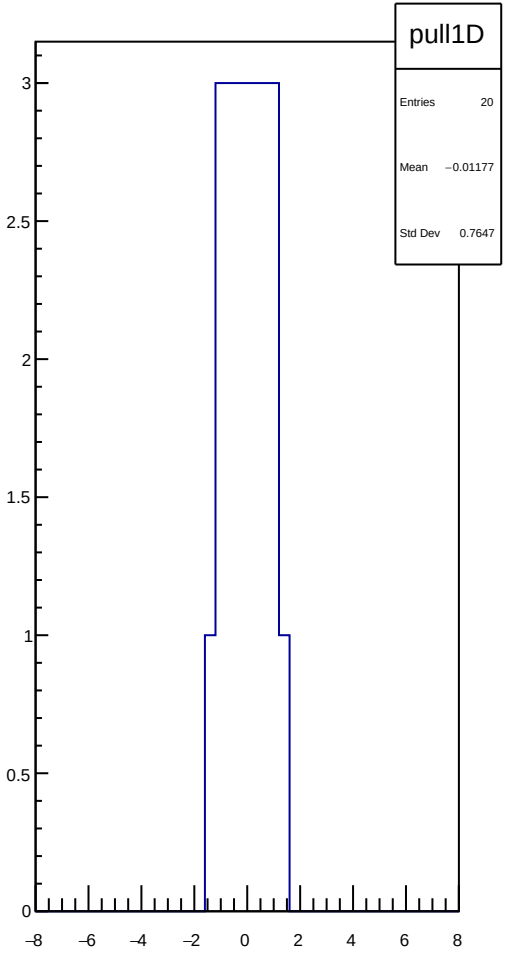

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 252.3 / 19
p0 22.47 ± 0.03531
24
23.5
23
22.5
22
21.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

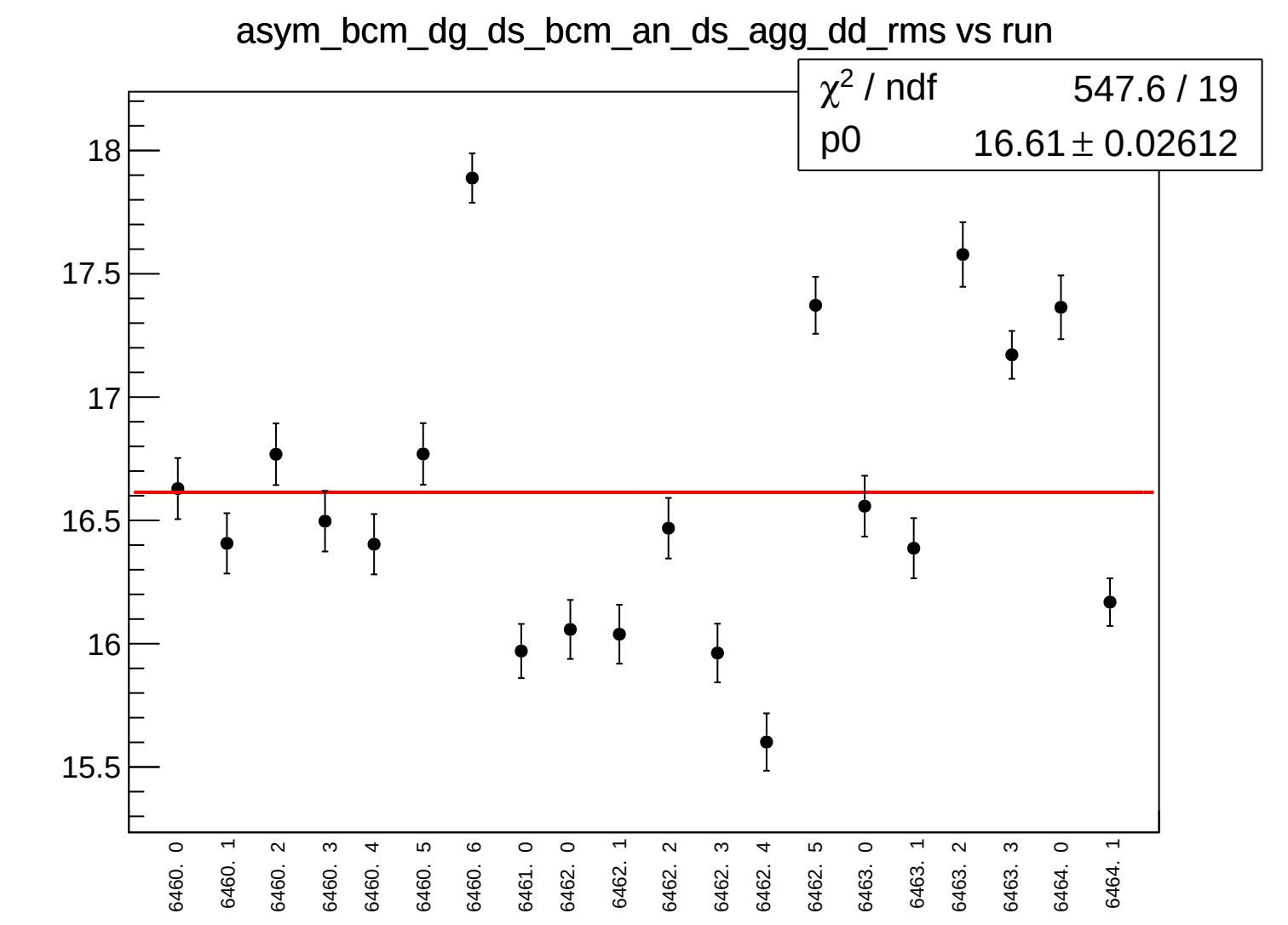

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.659 / 19
p0 486.5 ± 412.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.67
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

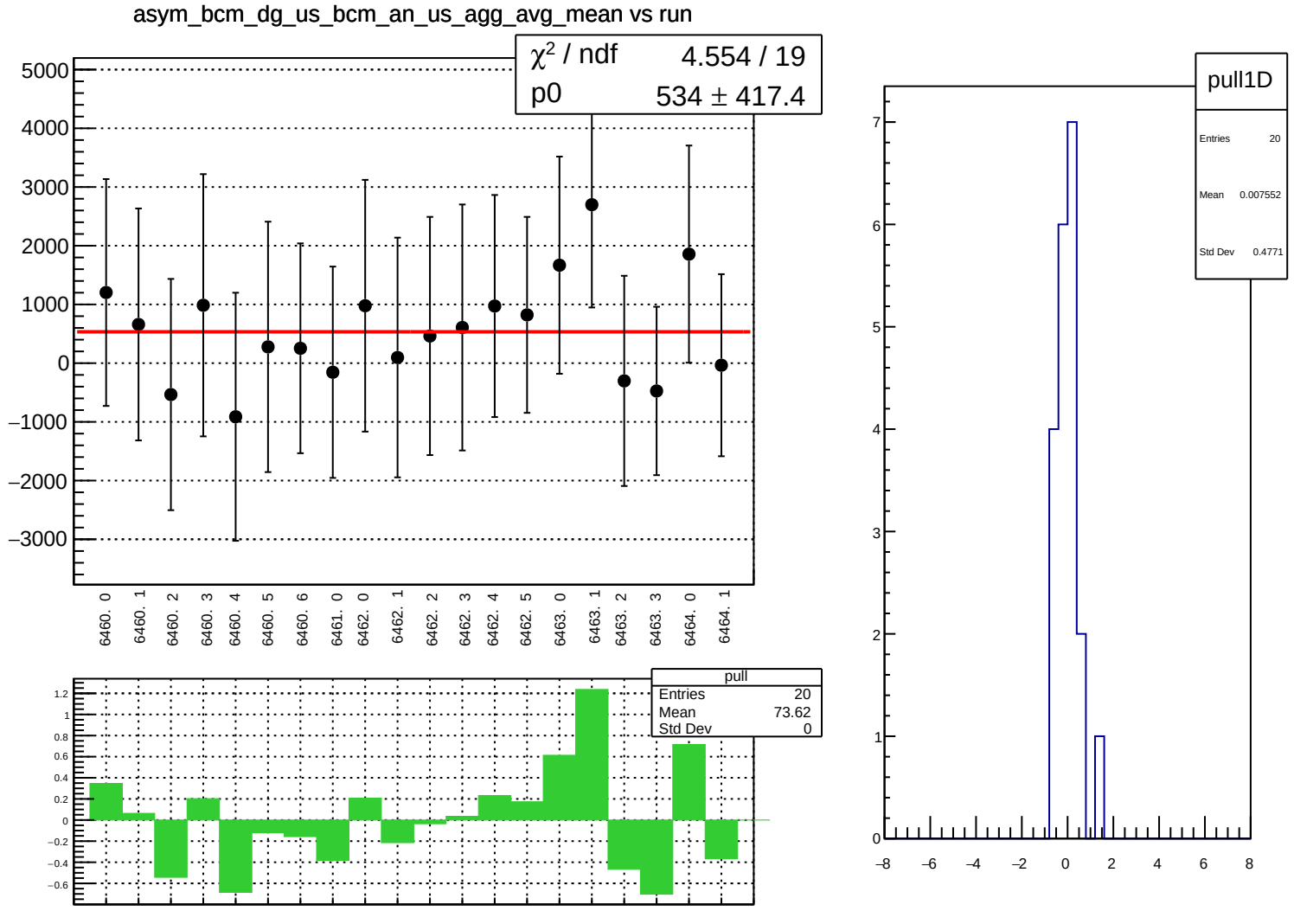

pull1D
Entries 20
Mean 0.007784
Std Dev 0.4277
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

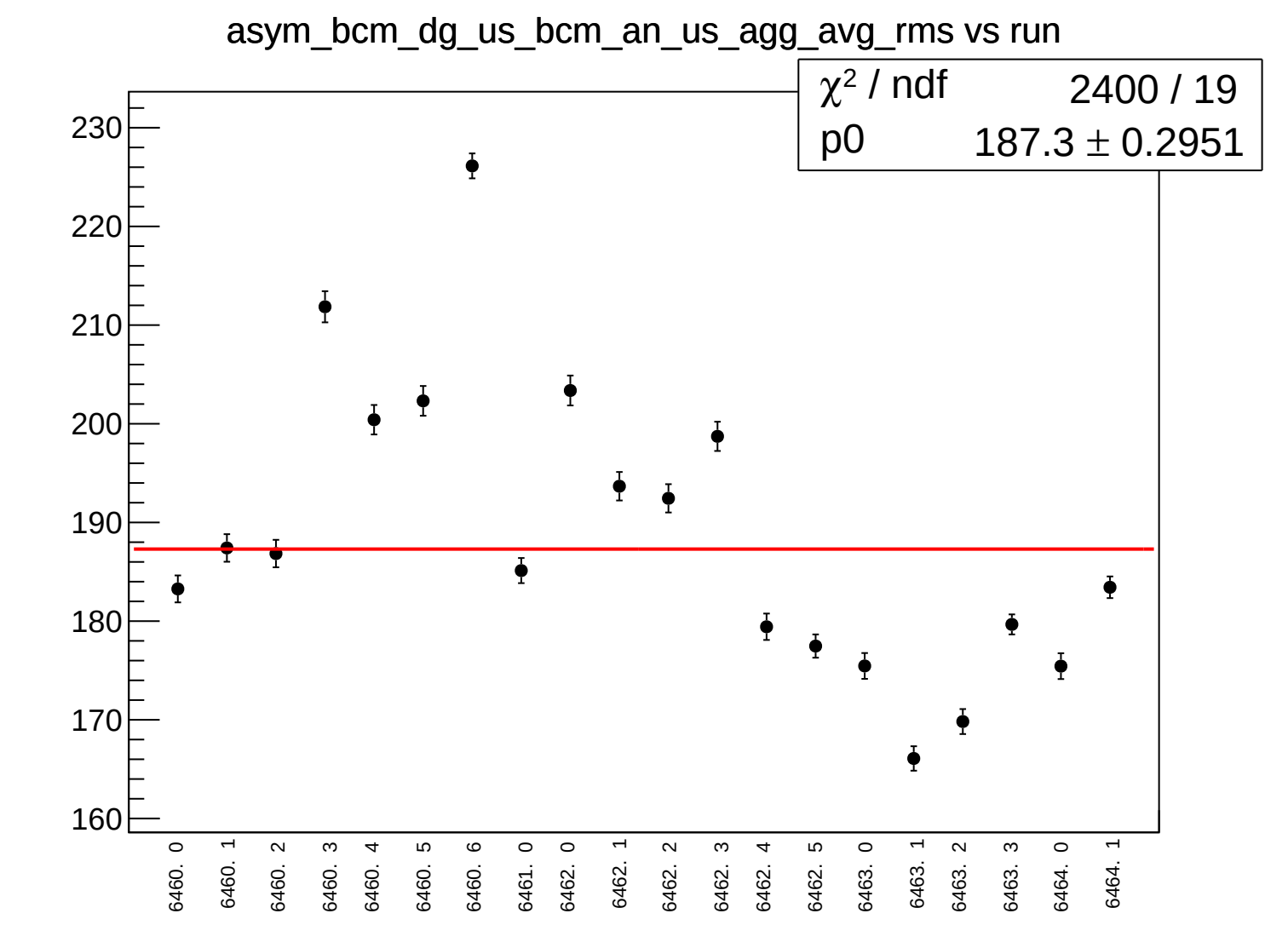

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2423 / 19
p0 185.1 ± 0.2916
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

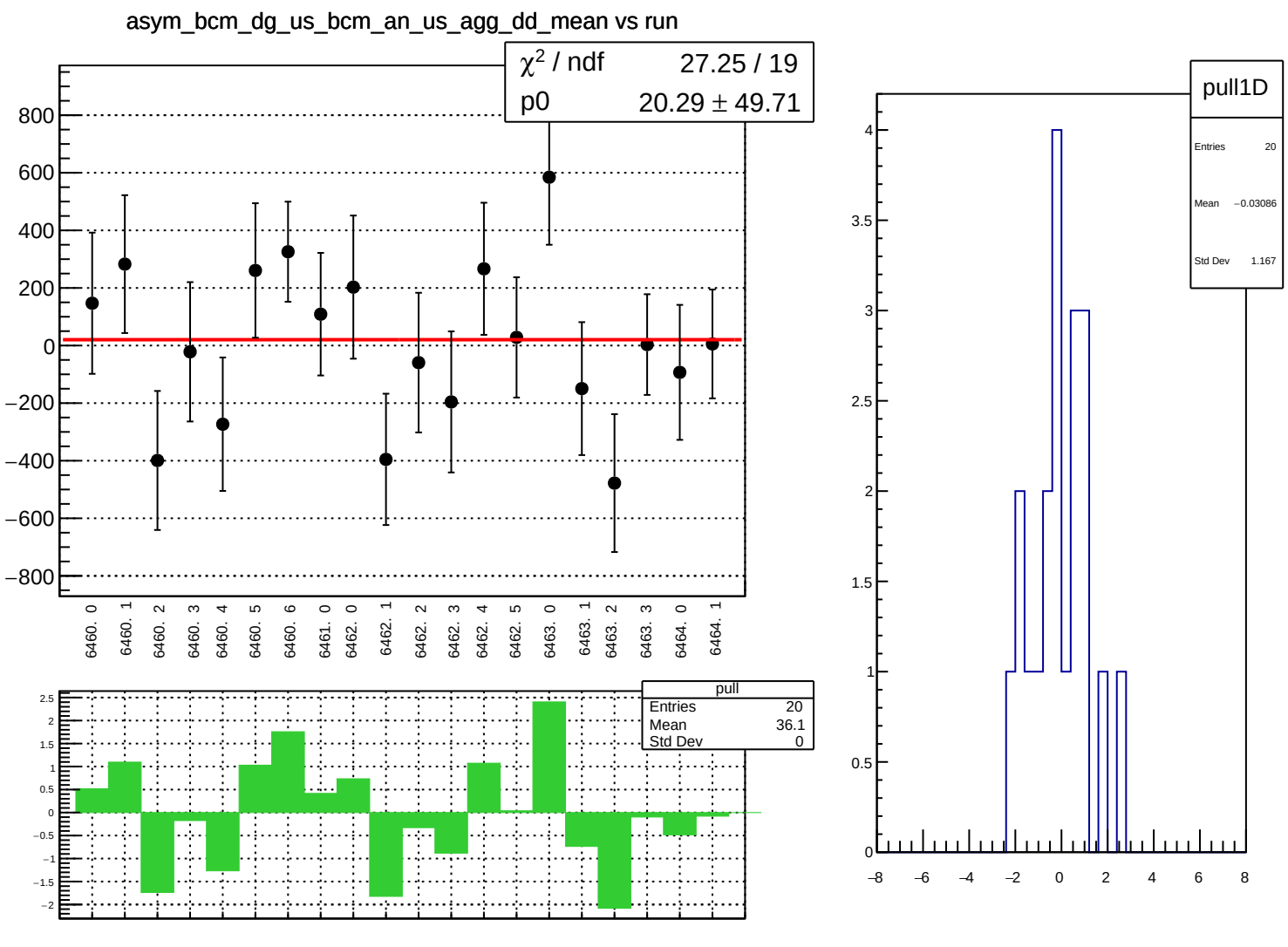

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 11.7 / 19
p0 −87.48 ± 36.94
300
200
100
0
−100
−200
−300
−400
−500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.004
Std Dev 0
1
0.5
0
−0.5
−1

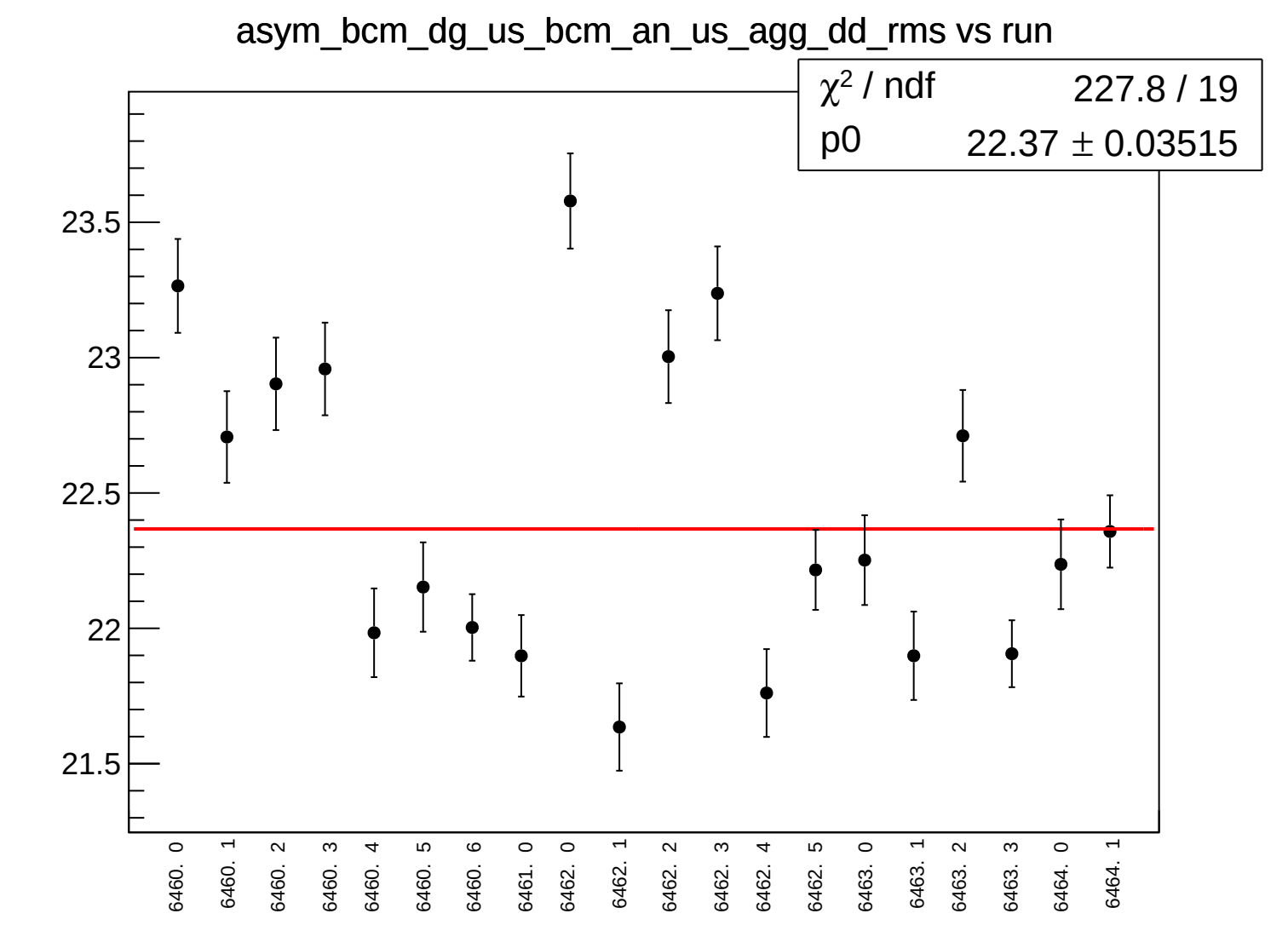

pull1D
Entries 20
Mean −0.01177
Std Dev 0.7647
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

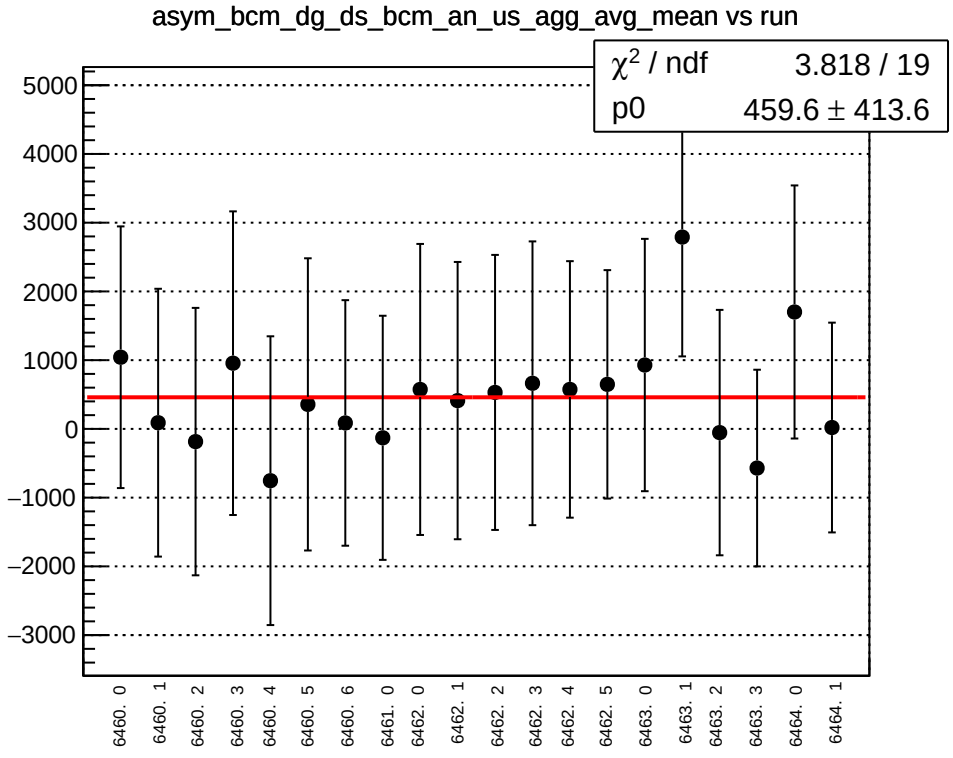

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 547.6 / 19
p0 16.61 ± 0.02612
18
17.5
17
16.5
16
15.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

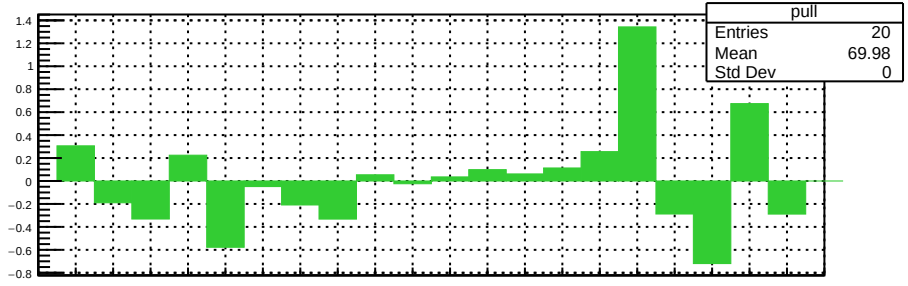

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.554 / 19
p0 534 ± 417.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.62
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.007552
Std Dev 0.4771
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

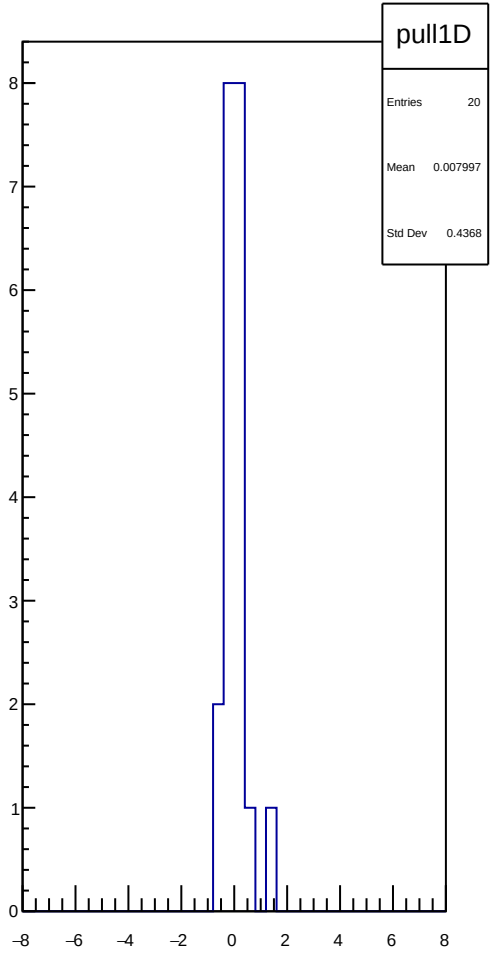

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2400 / 19
p0 187.3 ± 0.2951
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

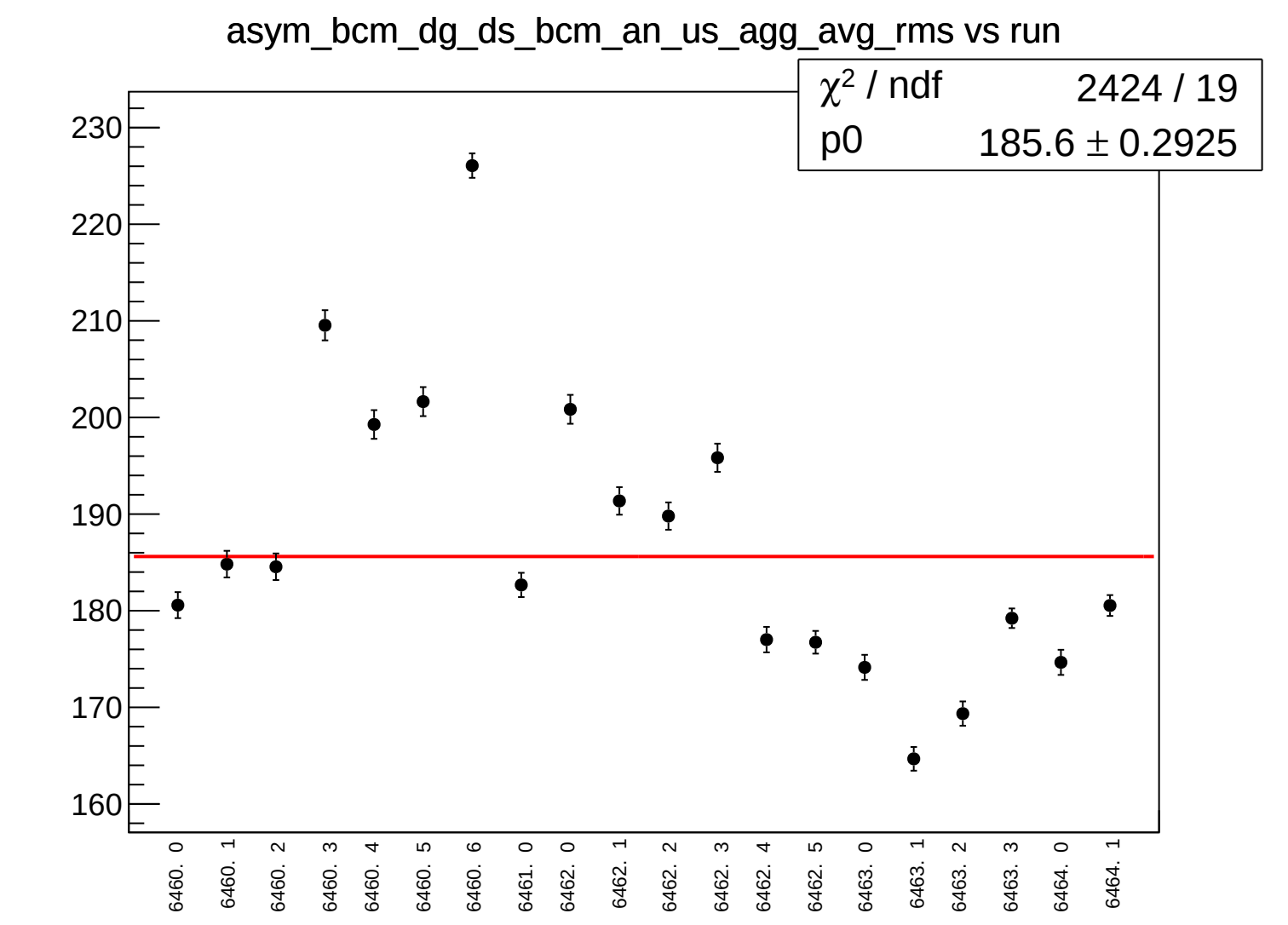

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 27.25 / 19
p0 20.29 ± 49.71
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.03086
Std Dev 1.167
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

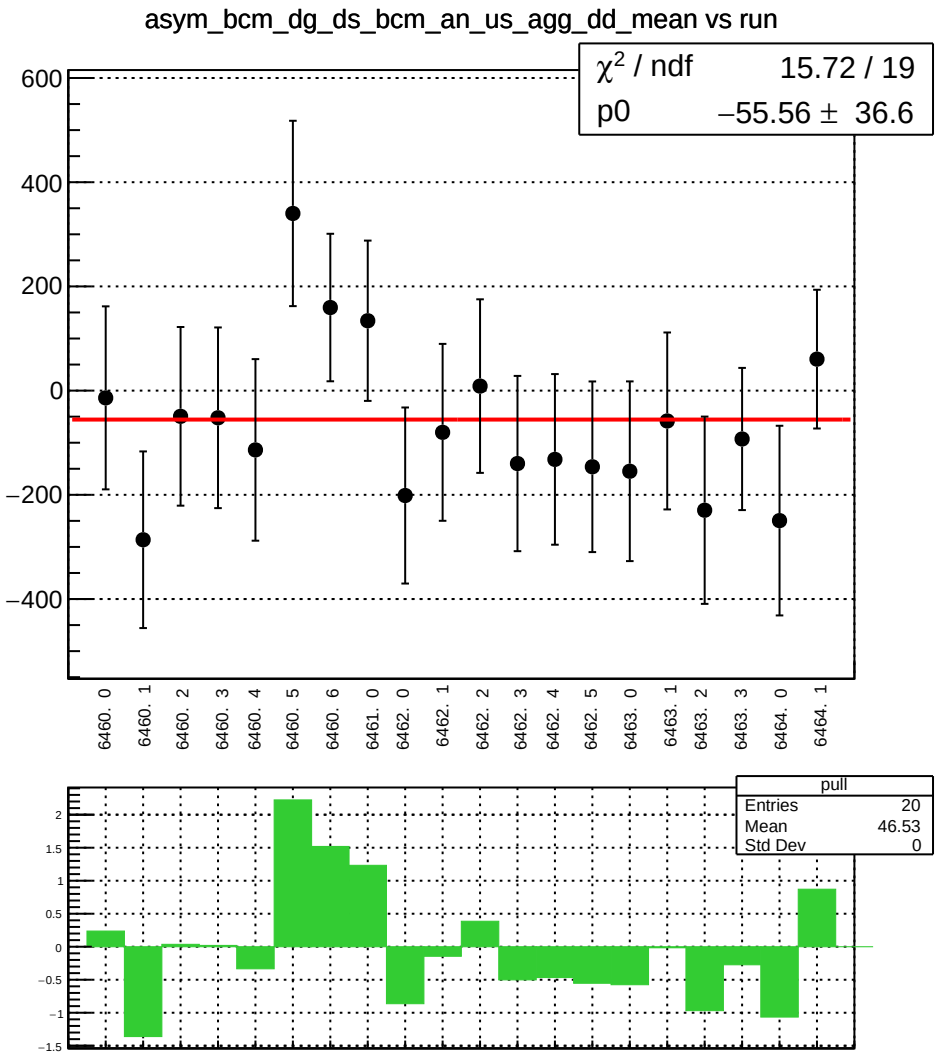

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 227.8 / 19
p0 22.37 ± 0.03515
23.5
23
22.5
22
21.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

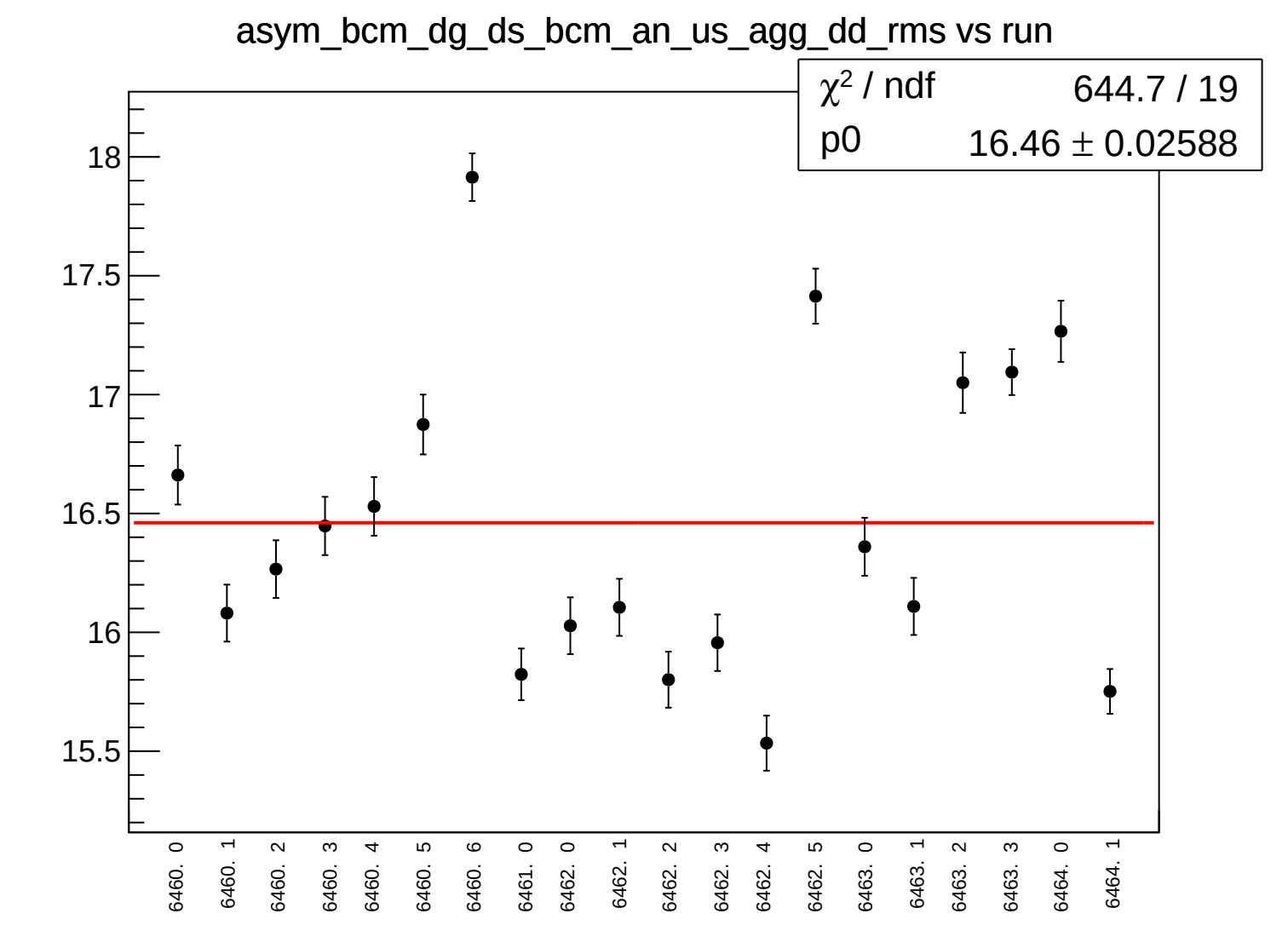

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 3.818 / 19
p0 459.6 ± 413.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

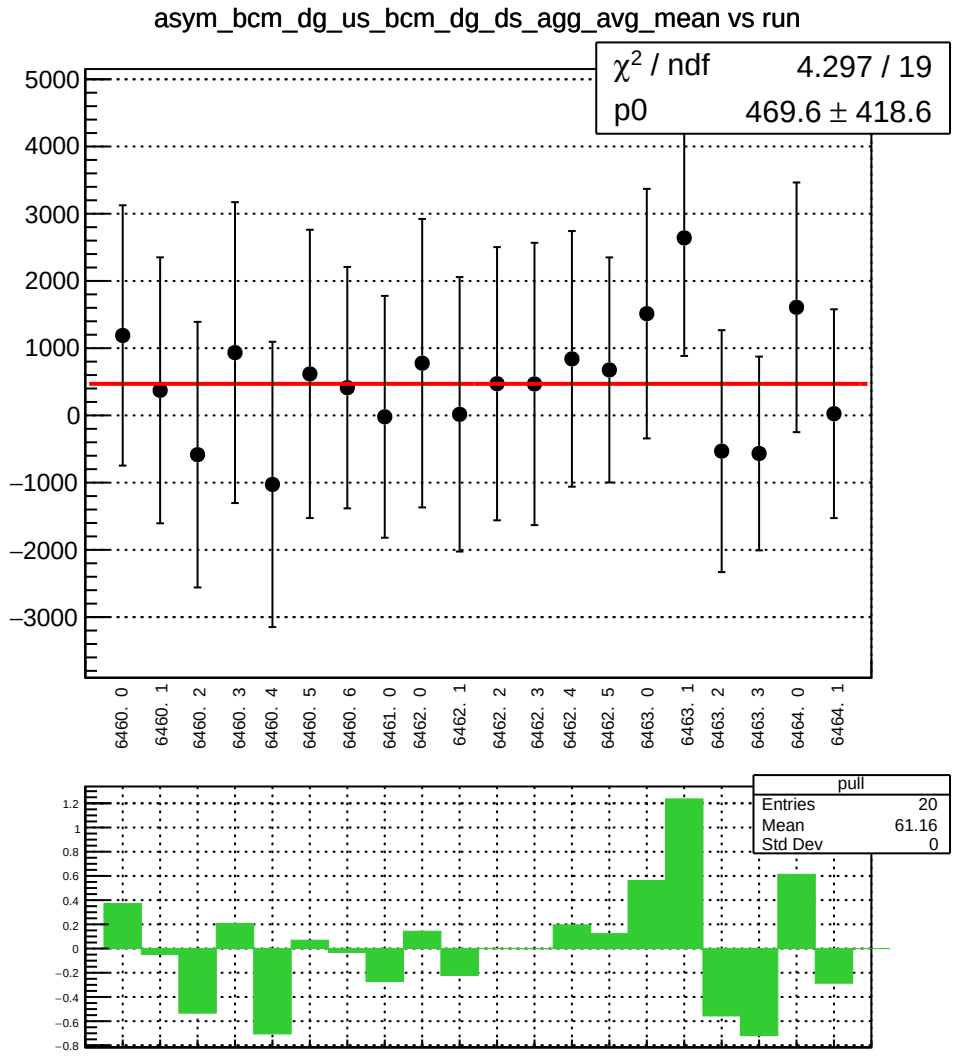

pull
Entries 20
Mean 69.98
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

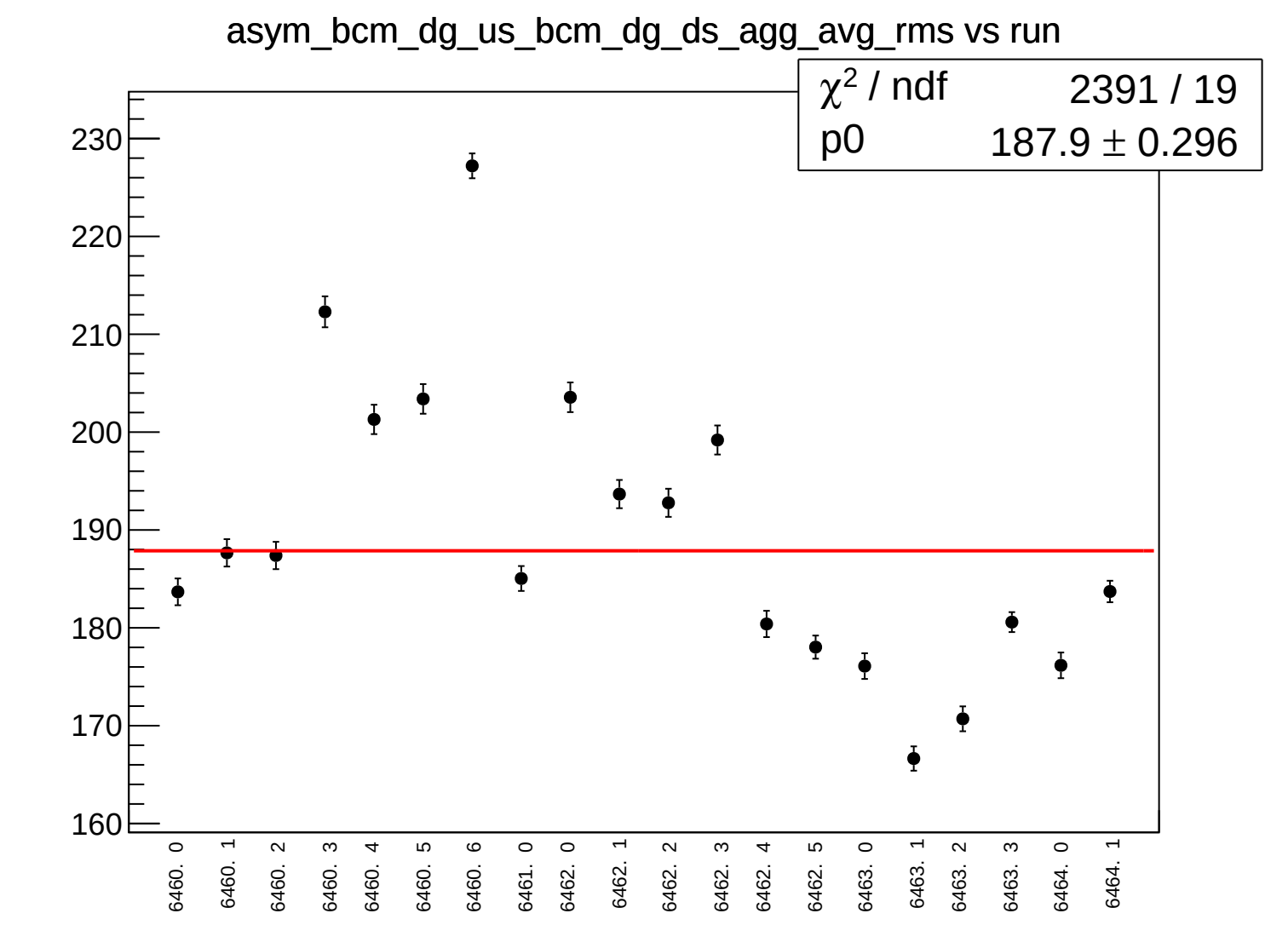

pull1D
Entries 20
Mean 0.007997
Std Dev 0.4368
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

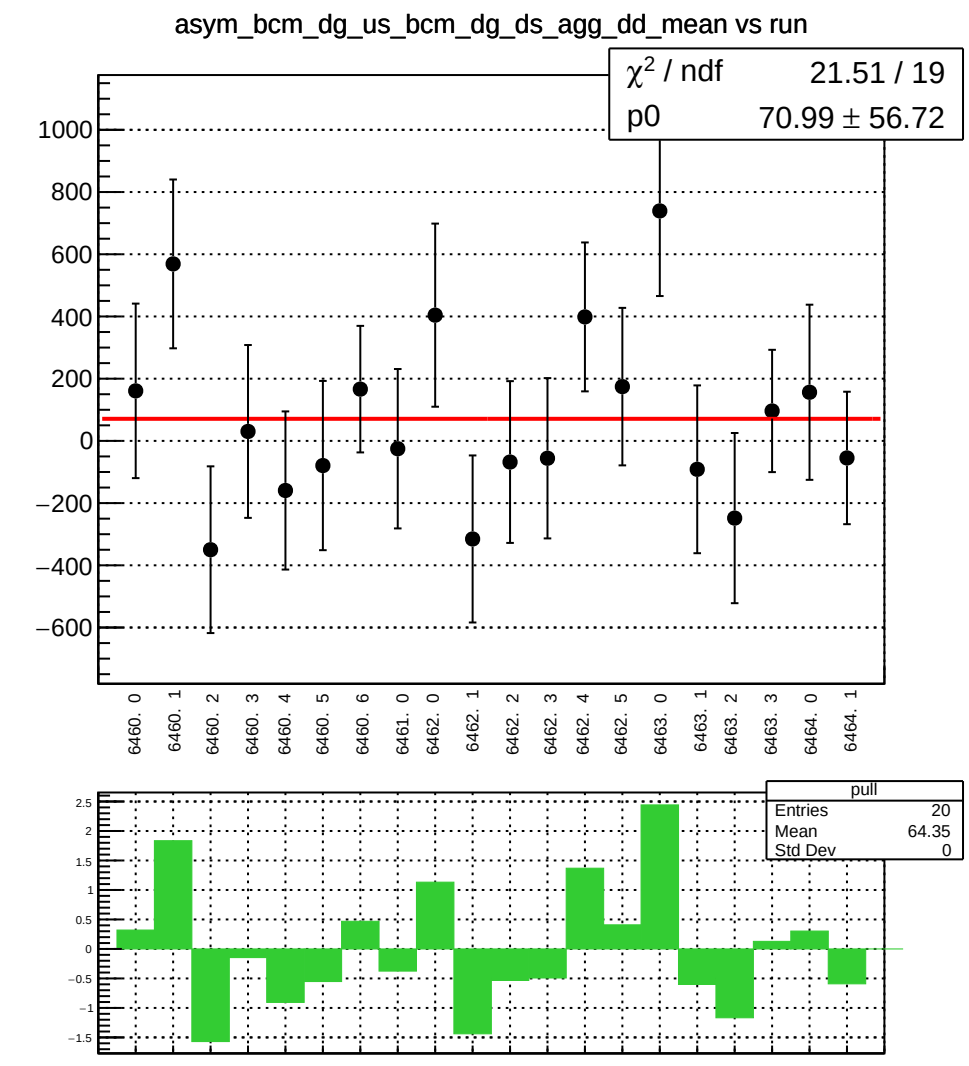

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2424 / 19
p0 185.6 ± 0.2925
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

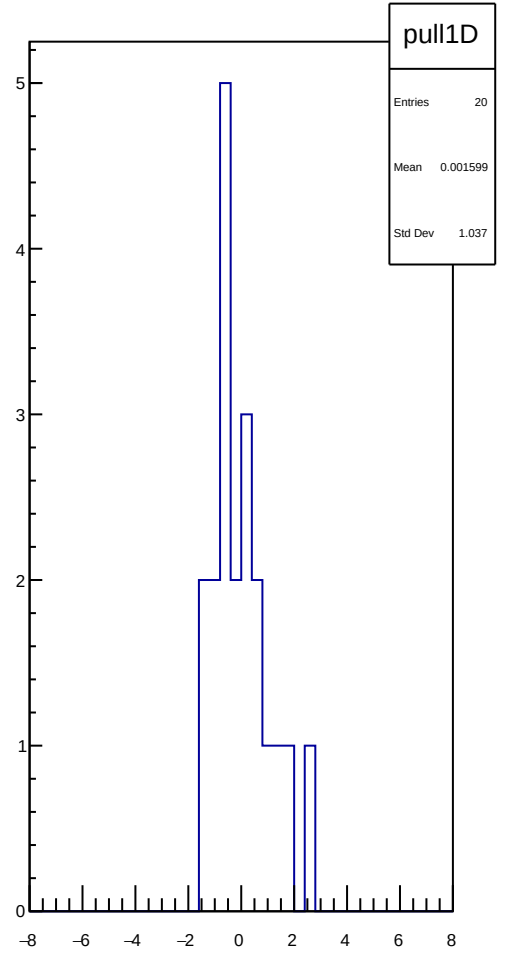

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 15.72 / 19
p0 −55.56 ± 36.6
600
400
200
0
−200
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02977
Std Dev 0.8861
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

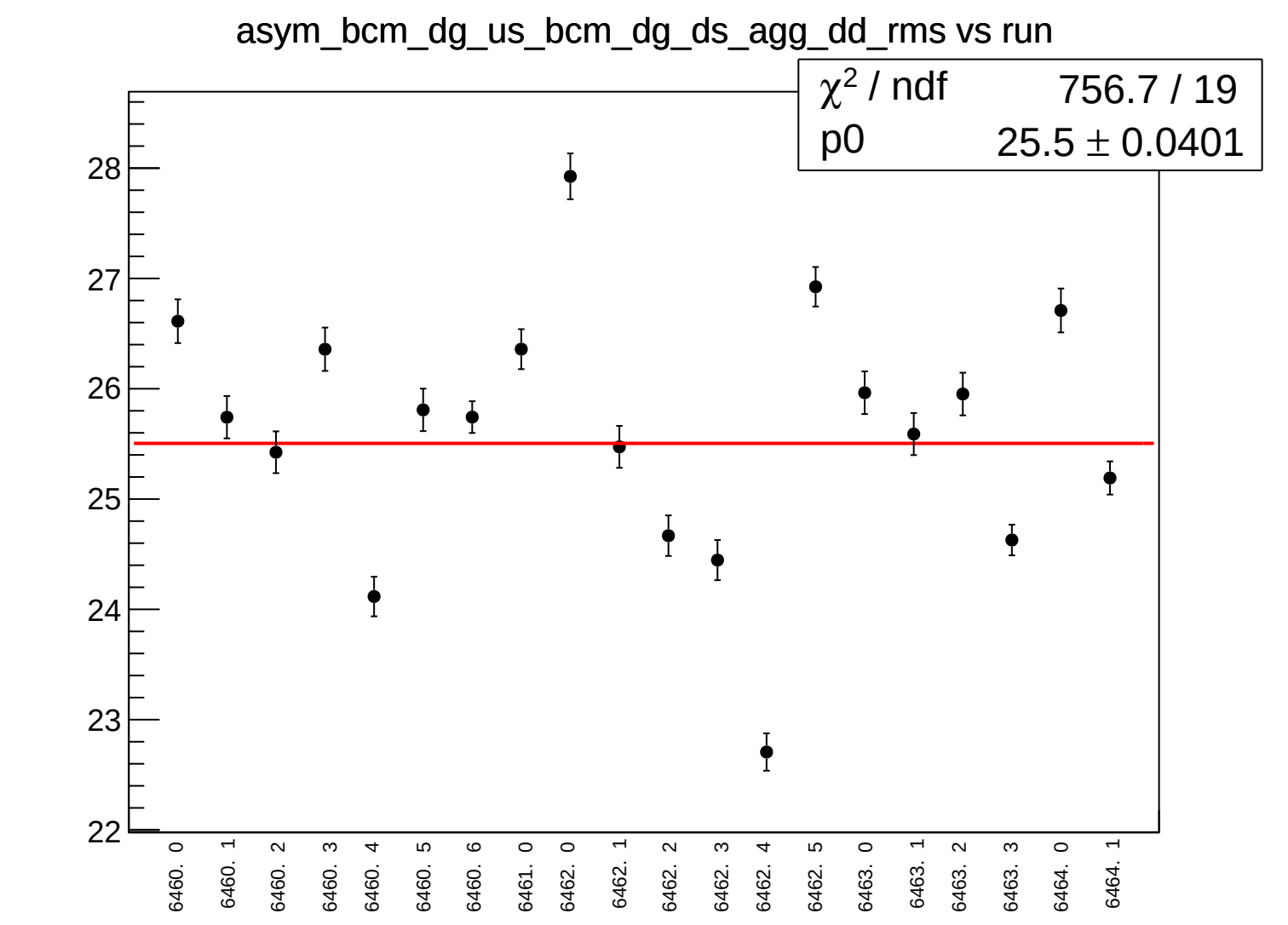

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 644.7 / 19
p0 16.46 ± 0.02588
18
17.5
17
16.5
16
15.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

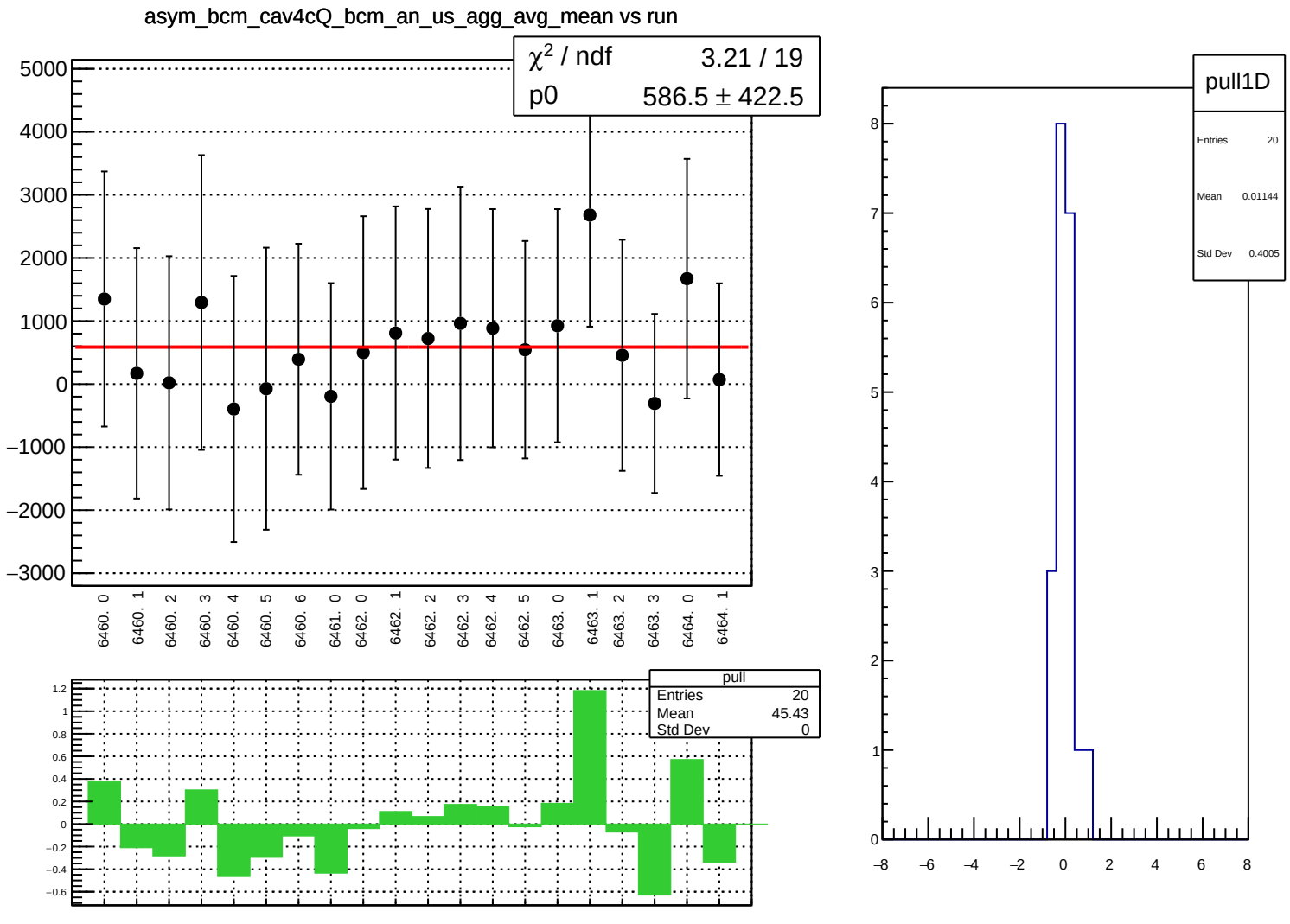

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.297 / 19
p0 469.6 ± 418.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 61.16
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.007356
Std Dev 0.4635
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

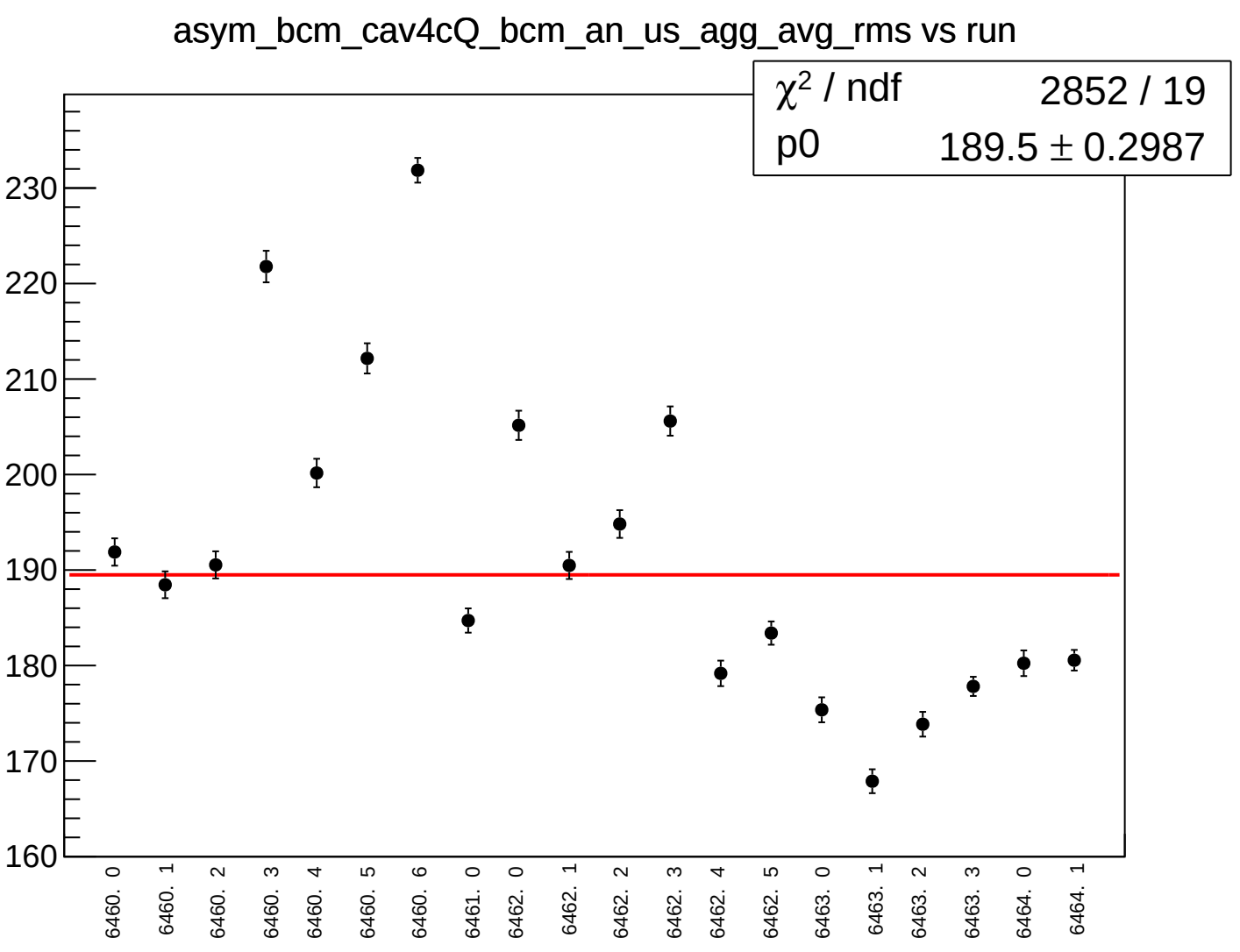

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2391 / 19
p0 187.9 ± 0.296
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

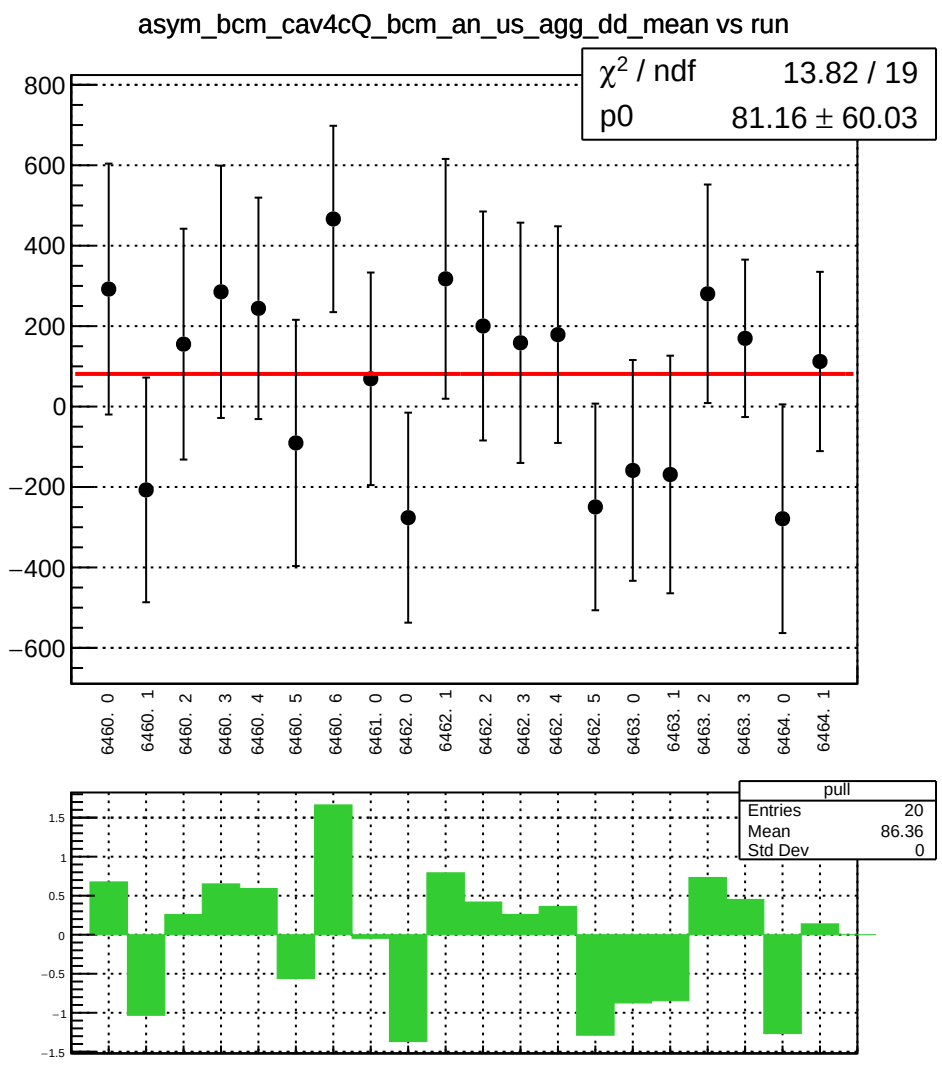

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 21.51 / 19
p0 70.99 ± 56.72
1000
800
600
400
200
0
−200
−400
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 64.35
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

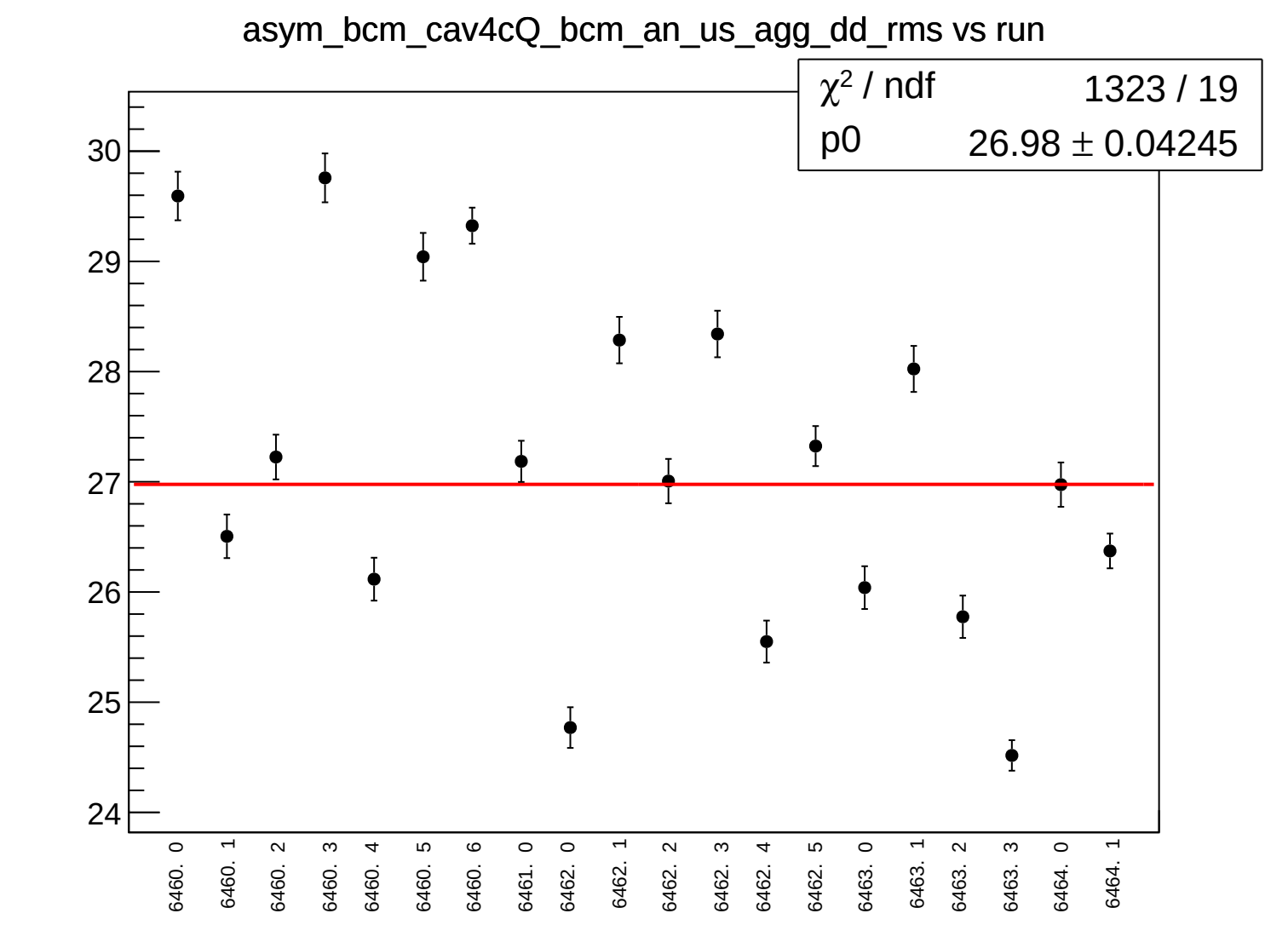

pull1D
Entries 20
Mean 0.001599
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 756.7 / 19
p0 25.5 ± 0.0401
28
27
26
25
24
23
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

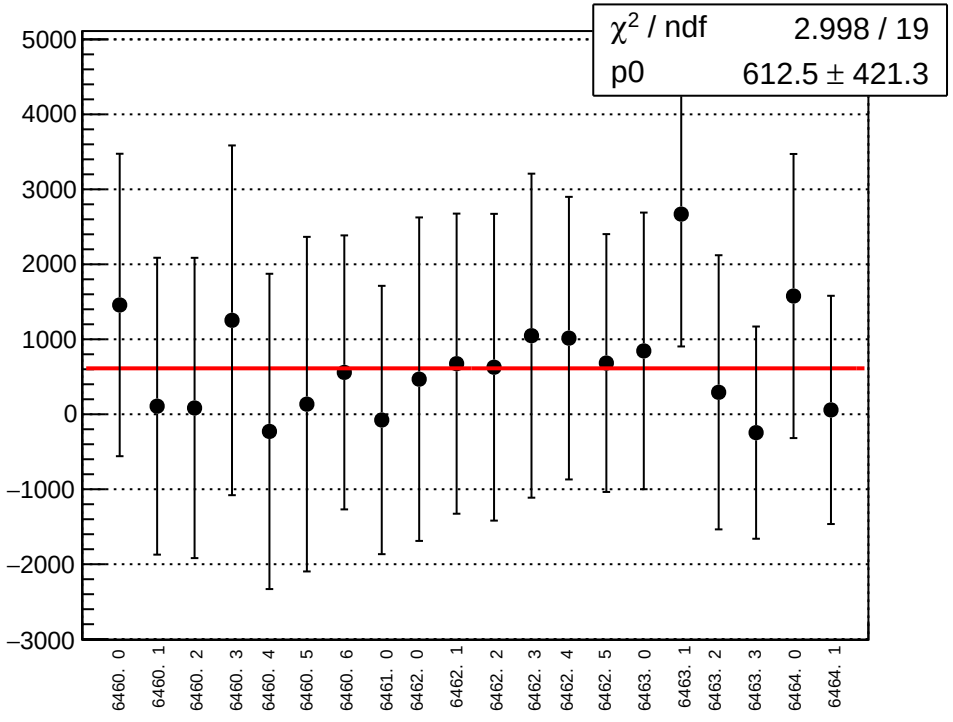

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 3.21 / 19
p0 586.5 ± 422.5
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 45.43
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.01144
Std Dev 0.4005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

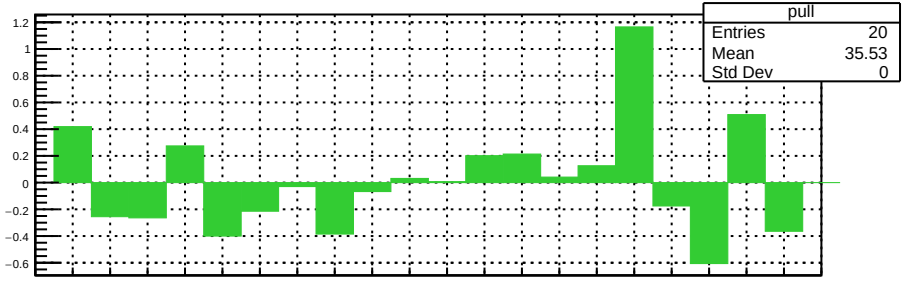

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2852 / 19
p0 189.5 ± 0.2987
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

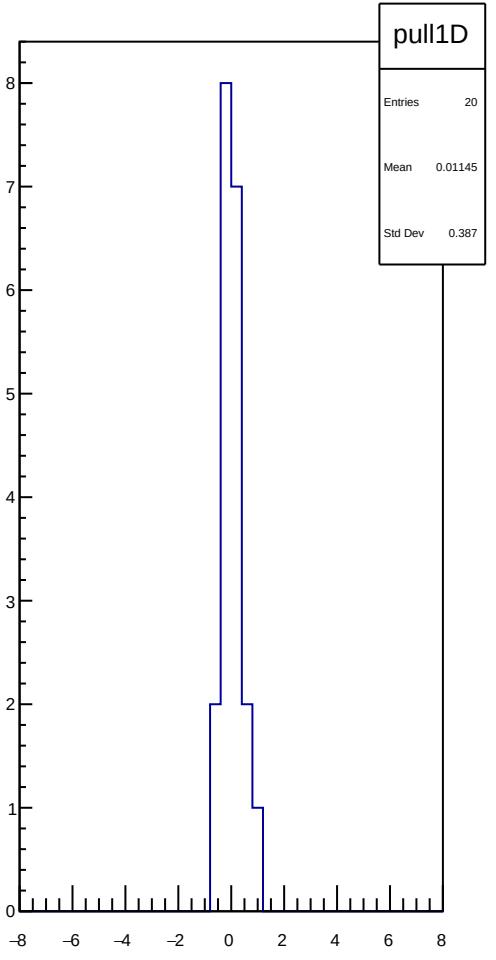

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 13.82 / 19
p0 81.16 ± 60.03
800
600
400
200
0
−200
−400
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01406
Std Dev 0.8313
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

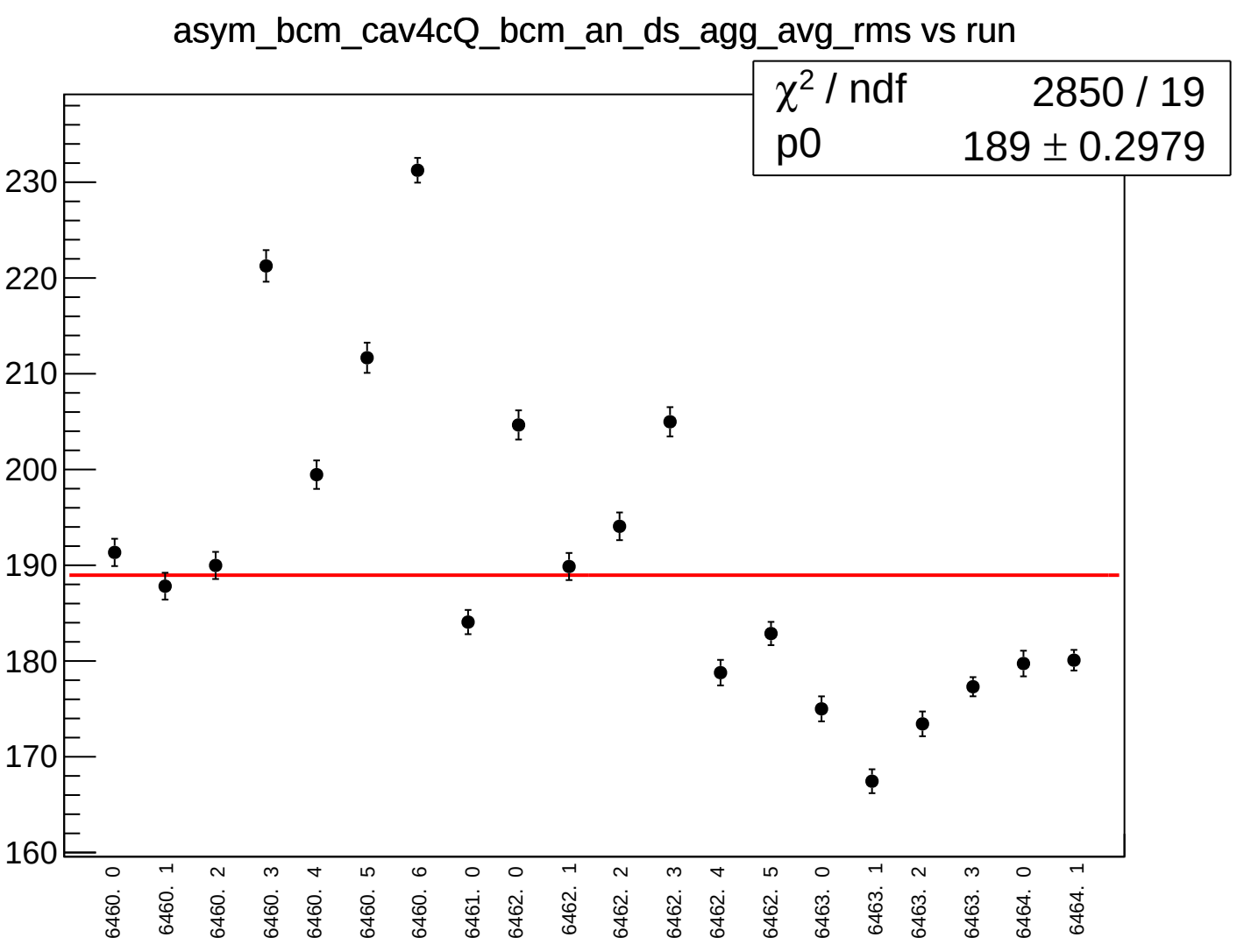

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1323 / 19
p0 26.98 ± 0.04245
30
29
28
27
26
25
24
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

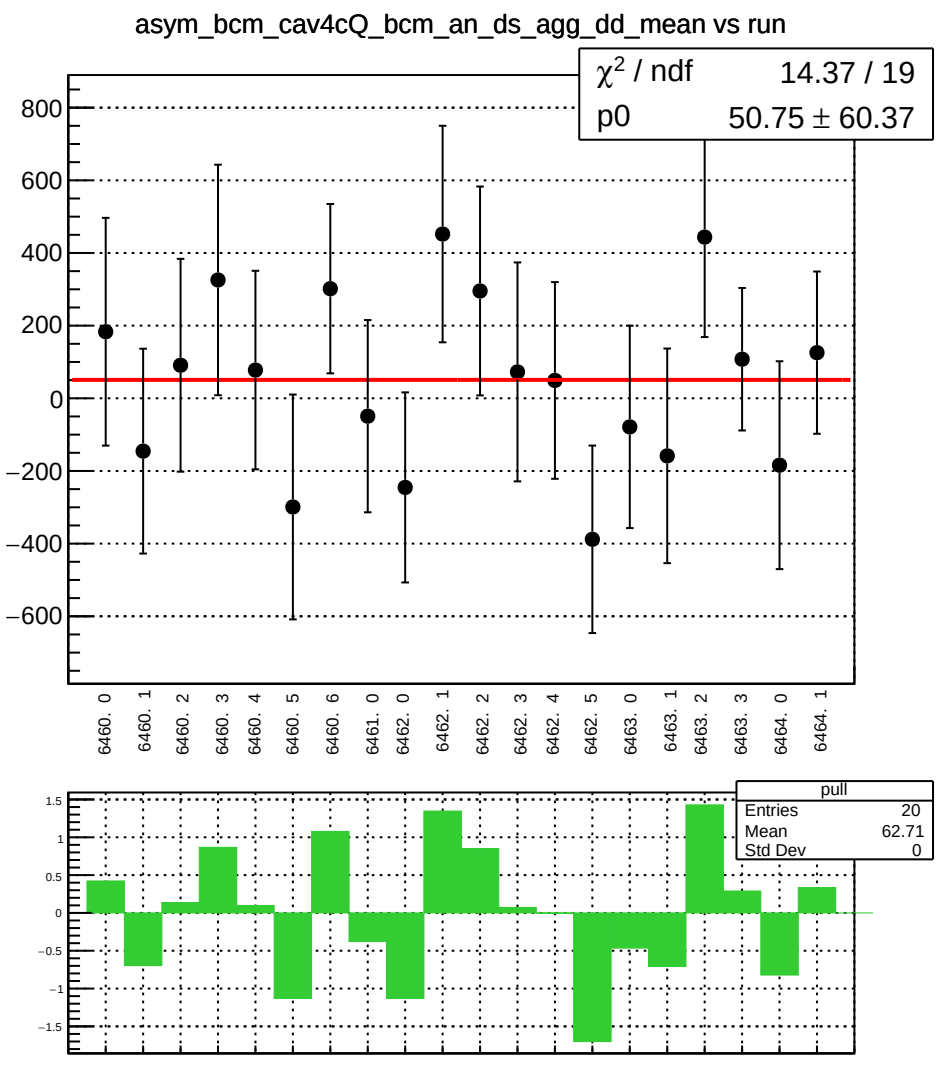
asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run

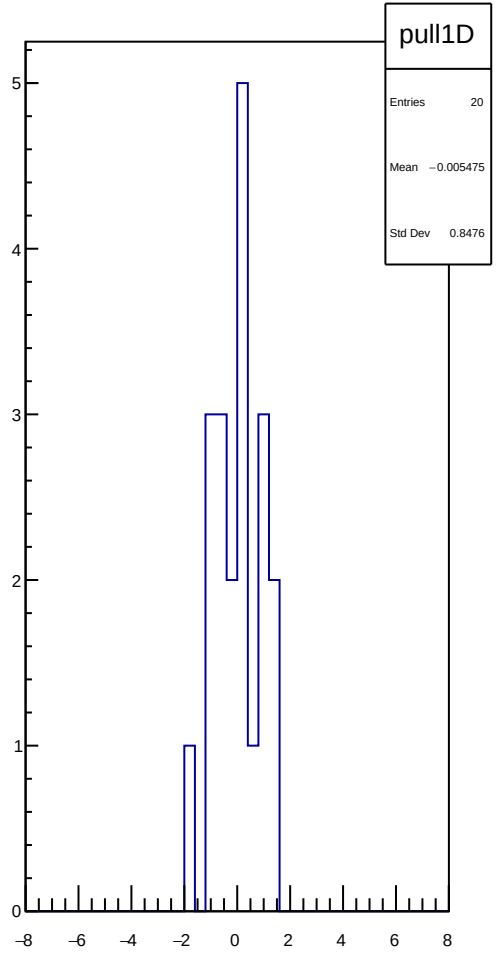


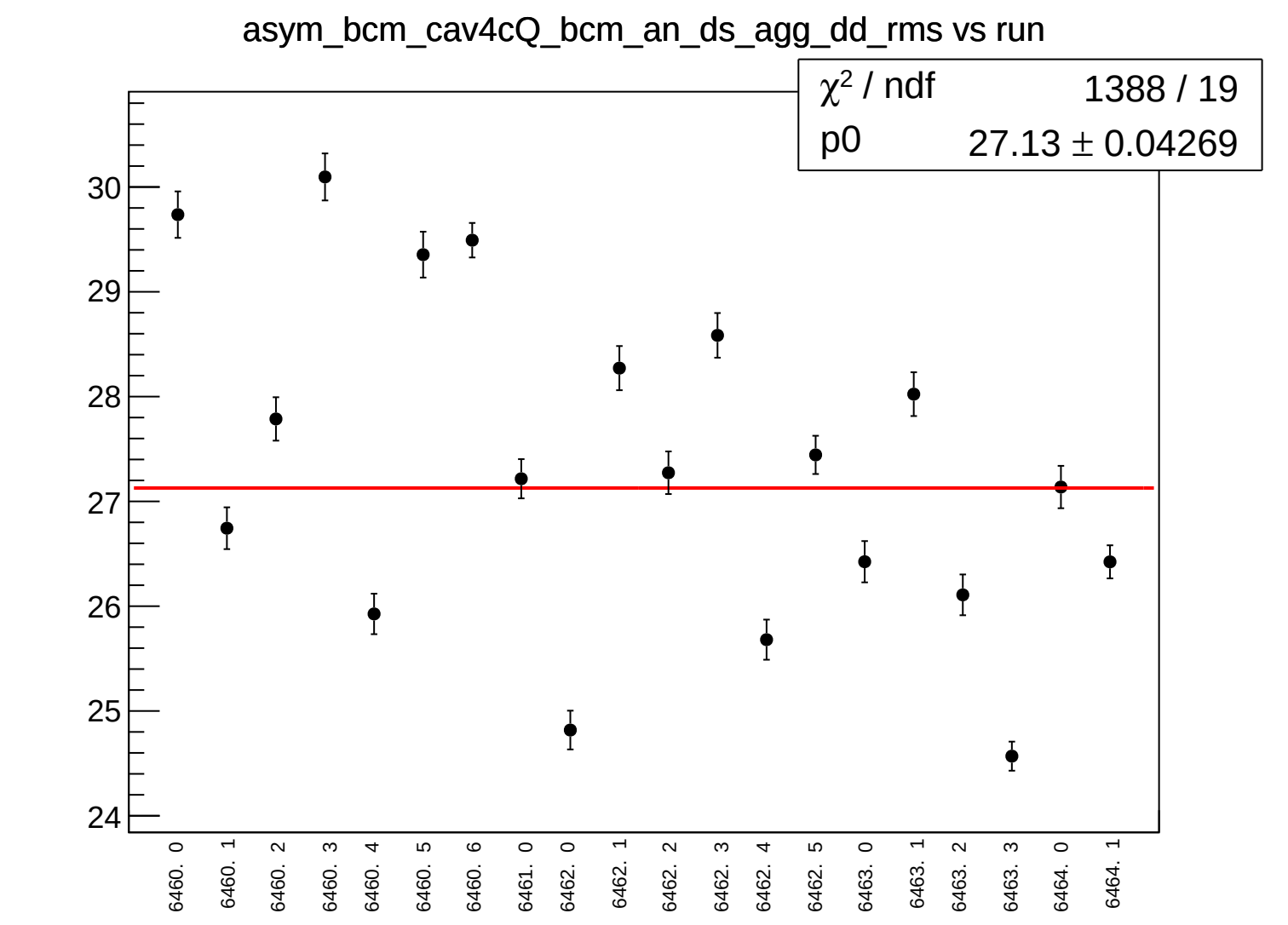


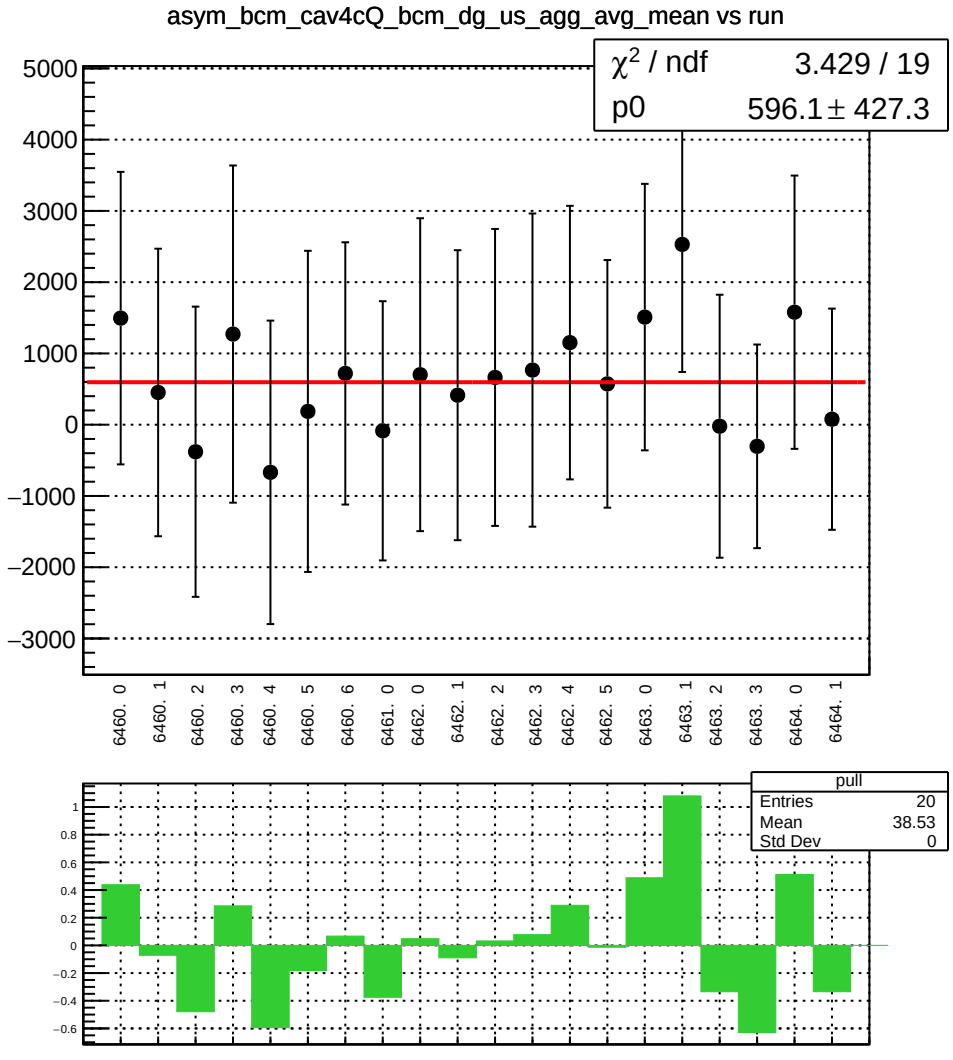


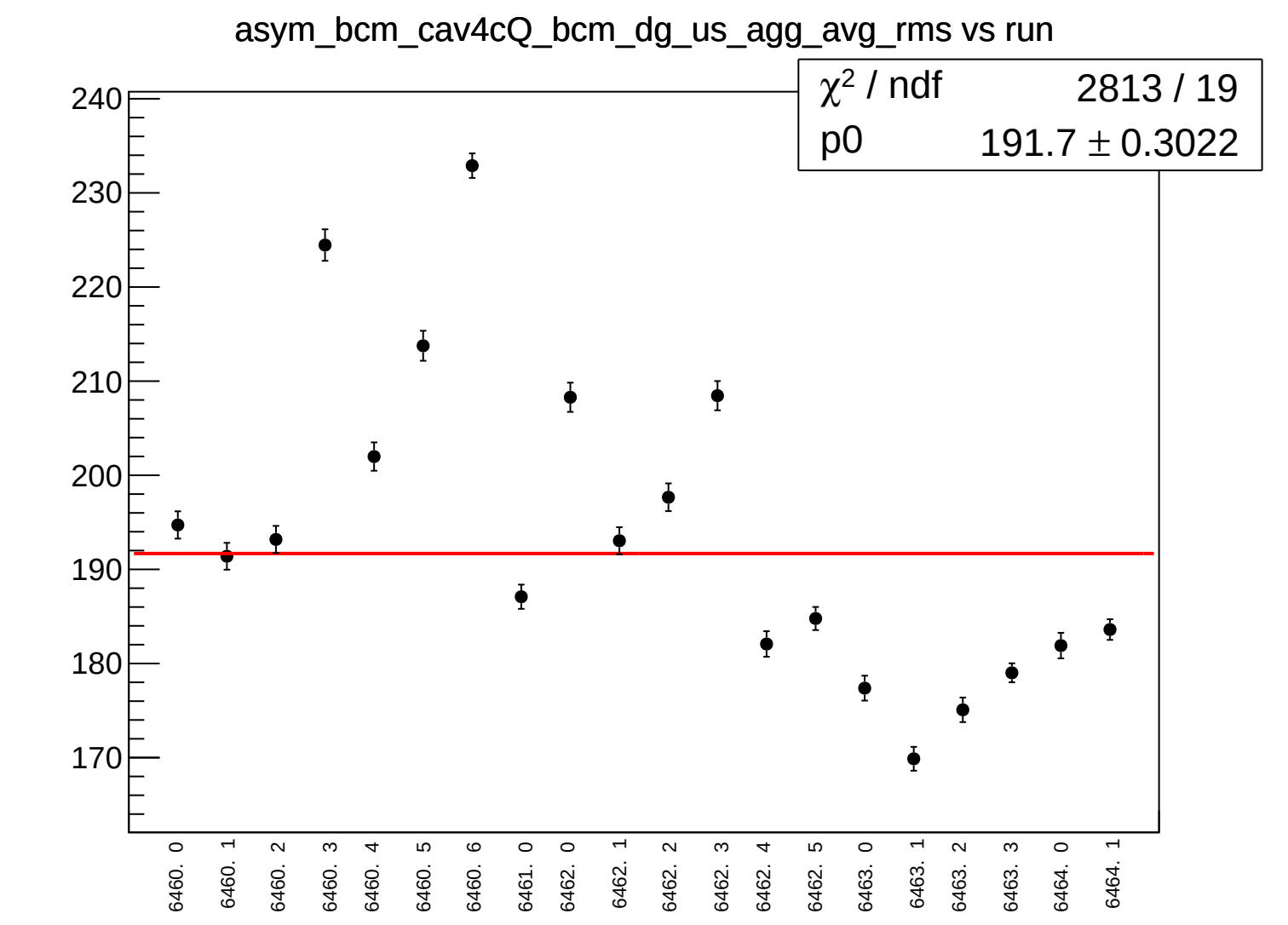

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2850 / 19
p0 189 ± 0.2979
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

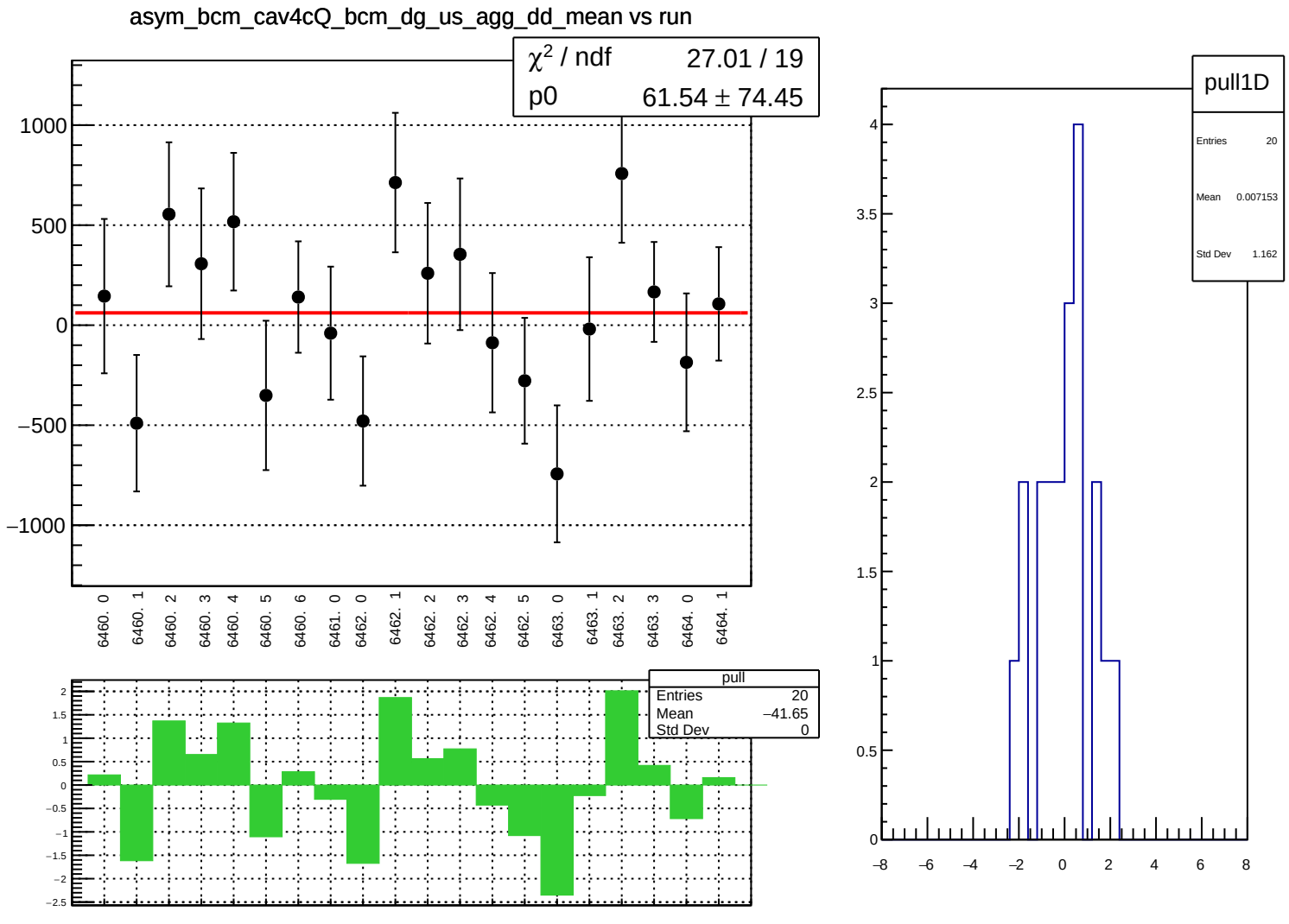

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 14.37 / 19
p0 50.75 ± 60.37
800
600
400
200
0
−200
−400
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

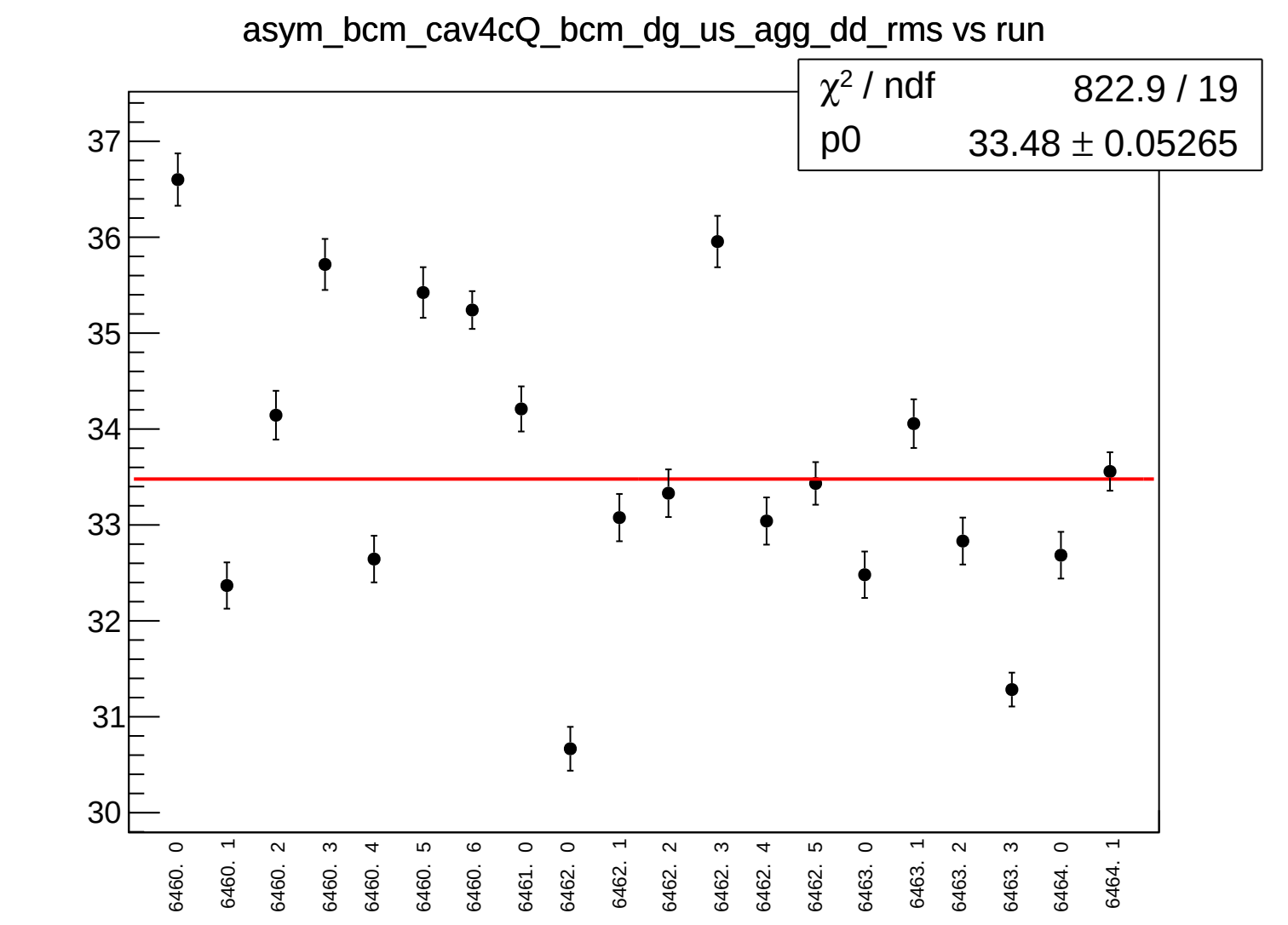

pull1D
Entries 20
Mean −0.005475
Std Dev 0.8476
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

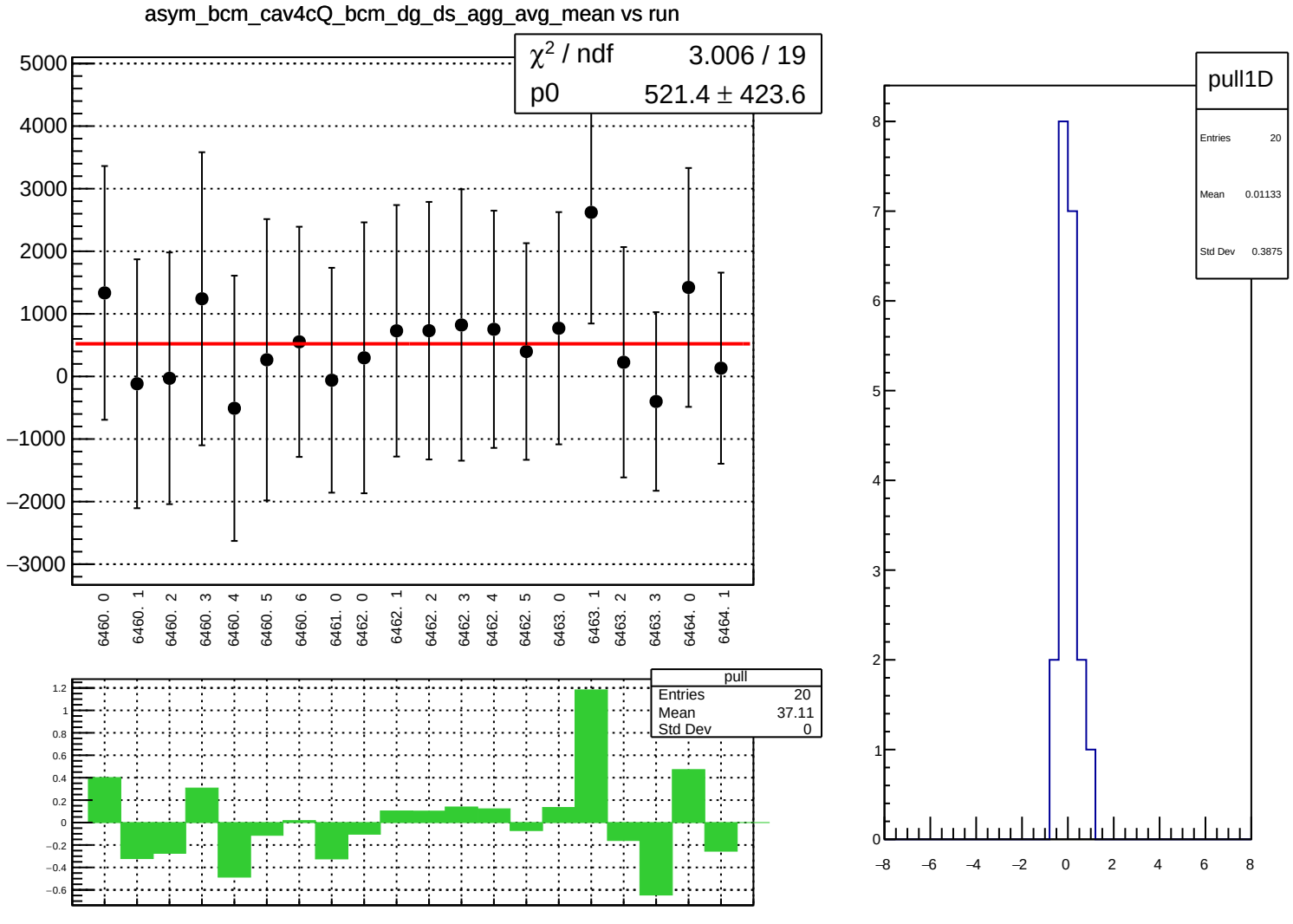

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1388 / 19
p0 27.13 ± 0.04269
30
29
28
27
26
25
24
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

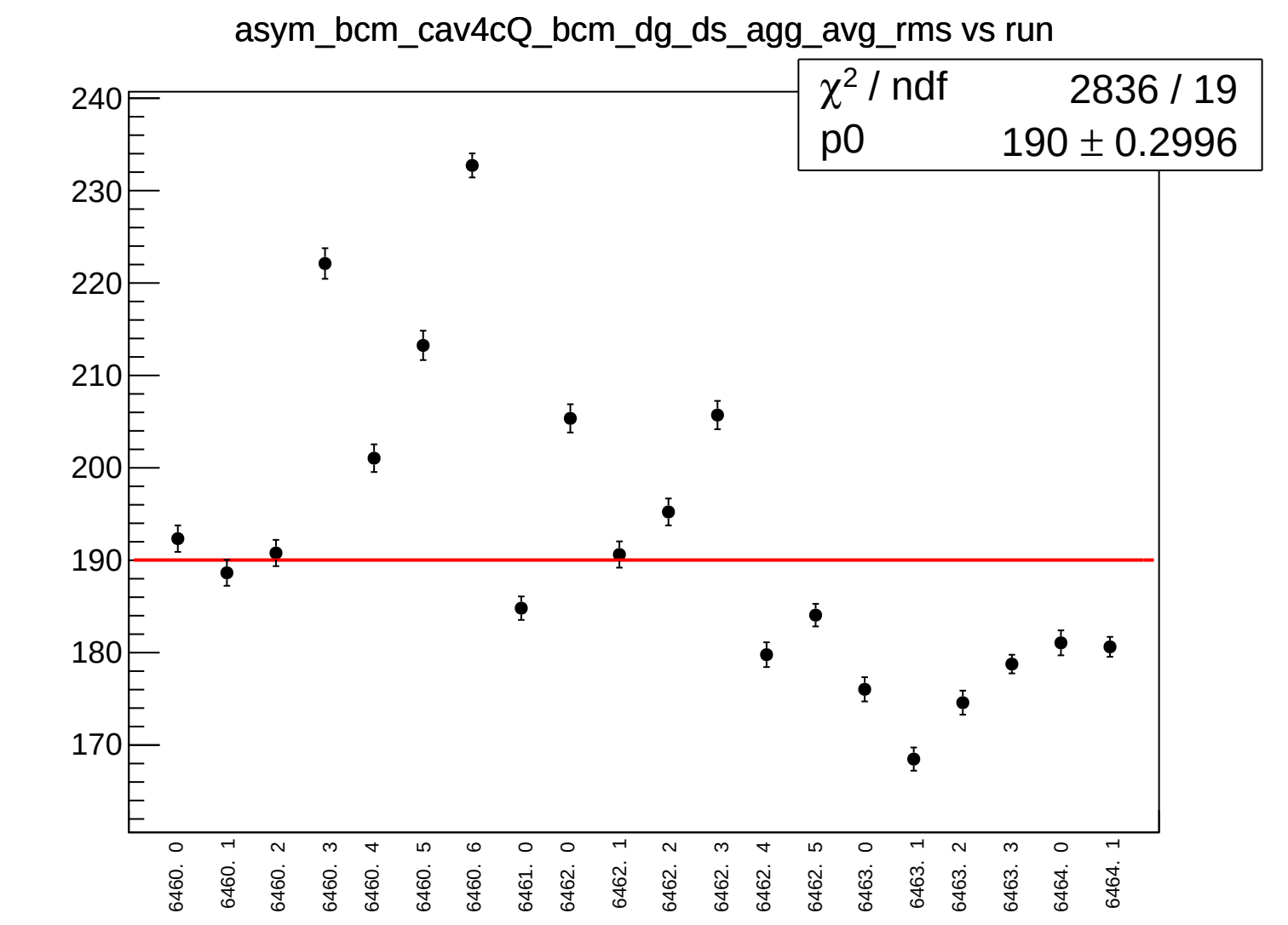

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 3.429 / 19
p0 596.1 ± 427.3
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.53
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.01081
Std Dev 0.4139
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

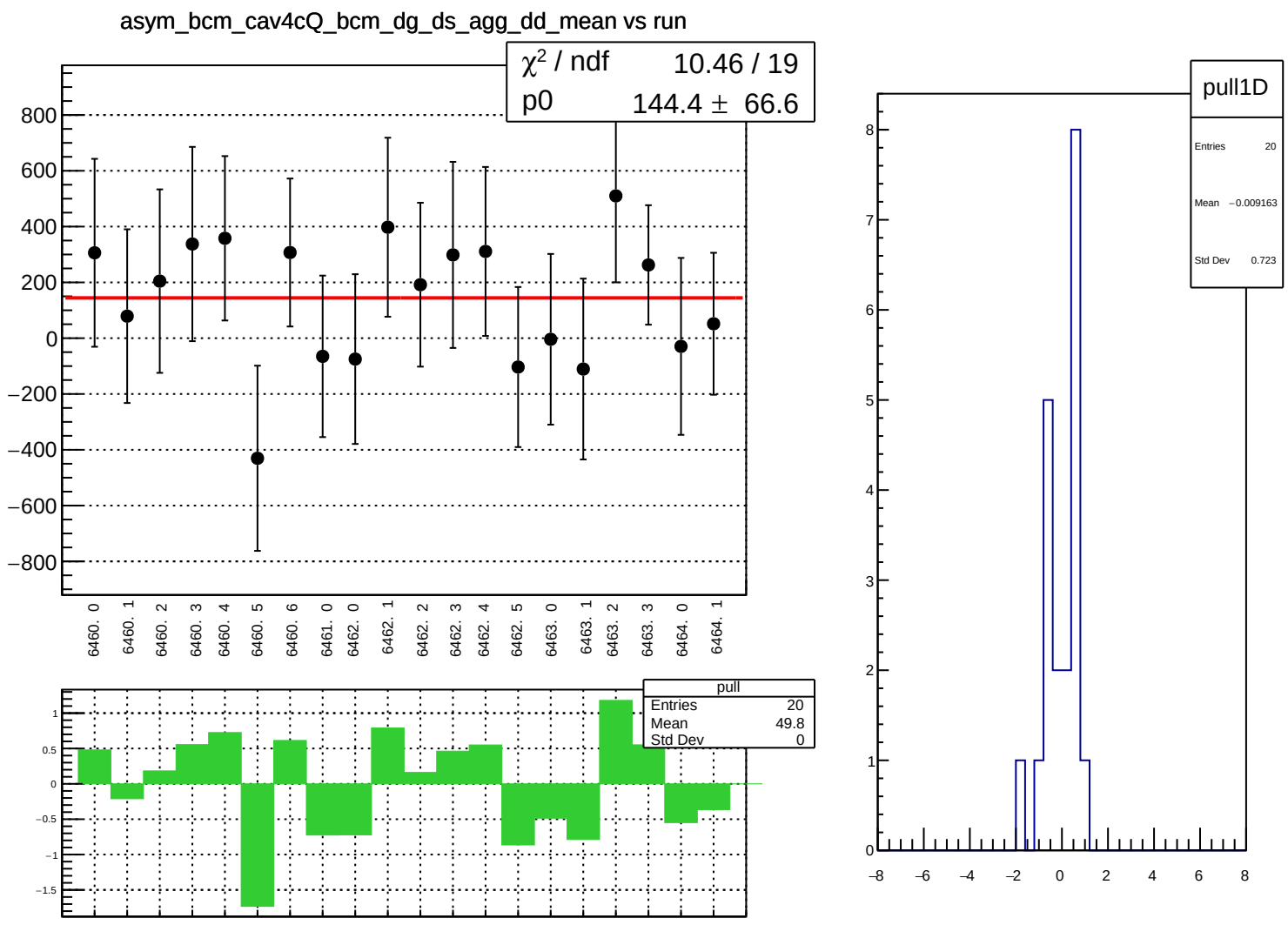

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2813 / 19
p0 191.7 ± 0.3022
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

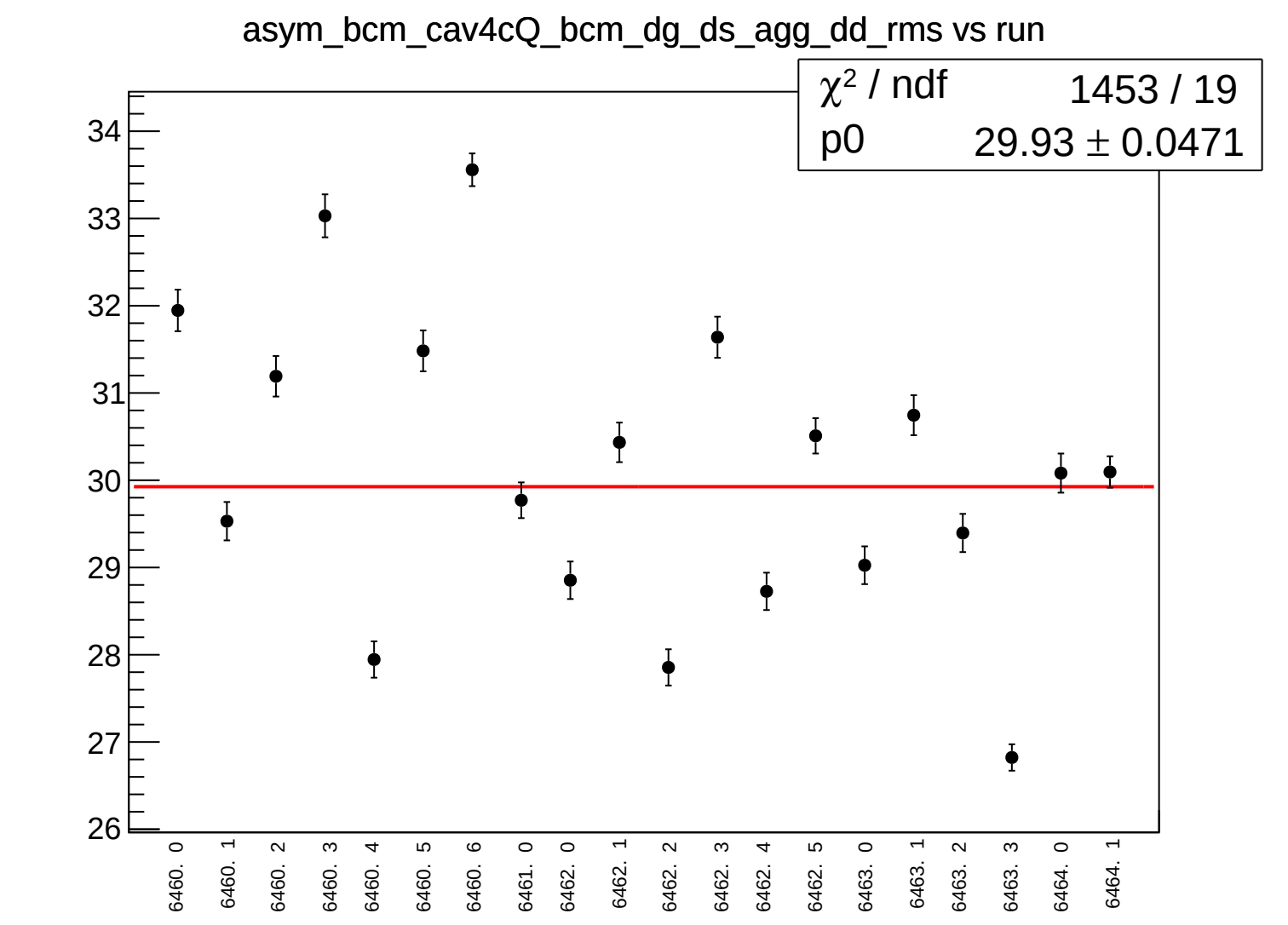

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 27.01 / 19
p0 61.54 ± 74.45
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −41.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean 0.007153
Std Dev 1.162
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

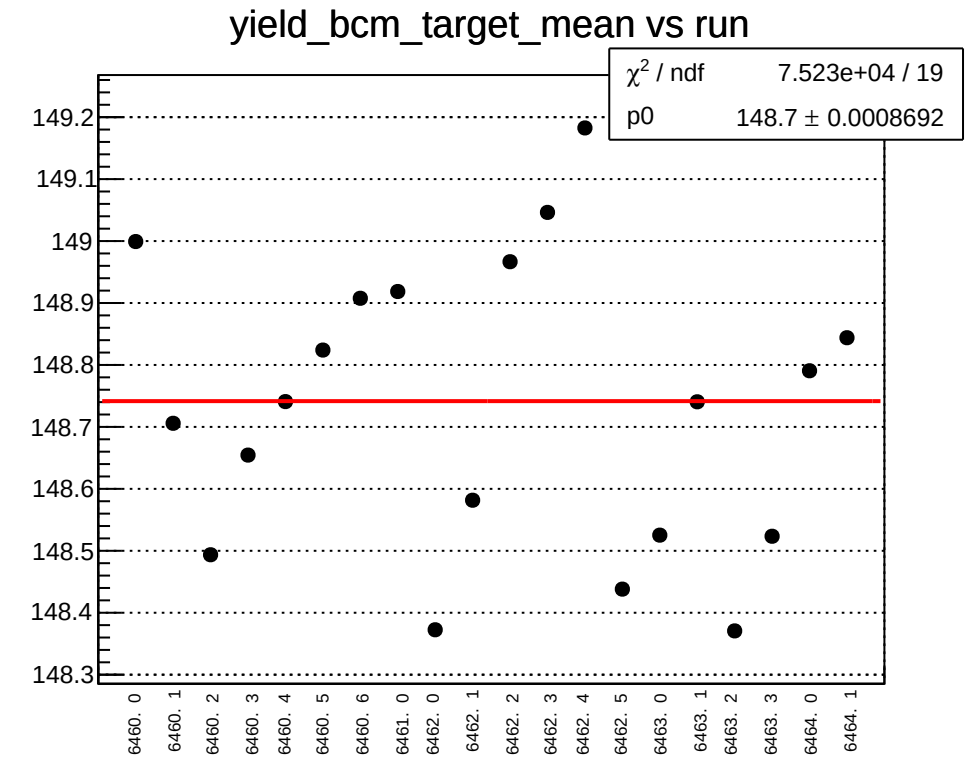

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 822.9 / 19
p0 33.48 ± 0.05265
37
36
35
34
33
32
31
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

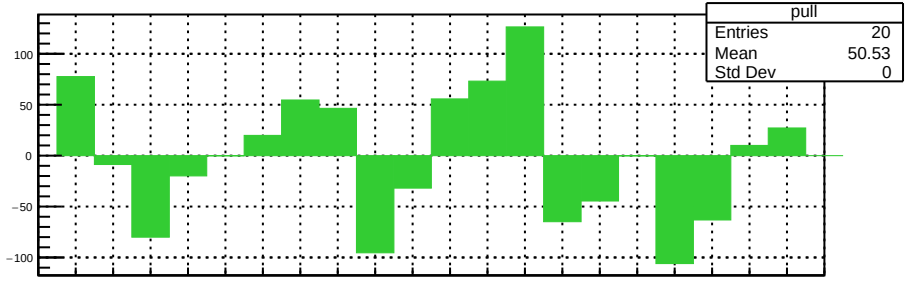

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 3.006 / 19
p0 521.4 ± 423.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.11
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.01133
Std Dev 0.3875
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

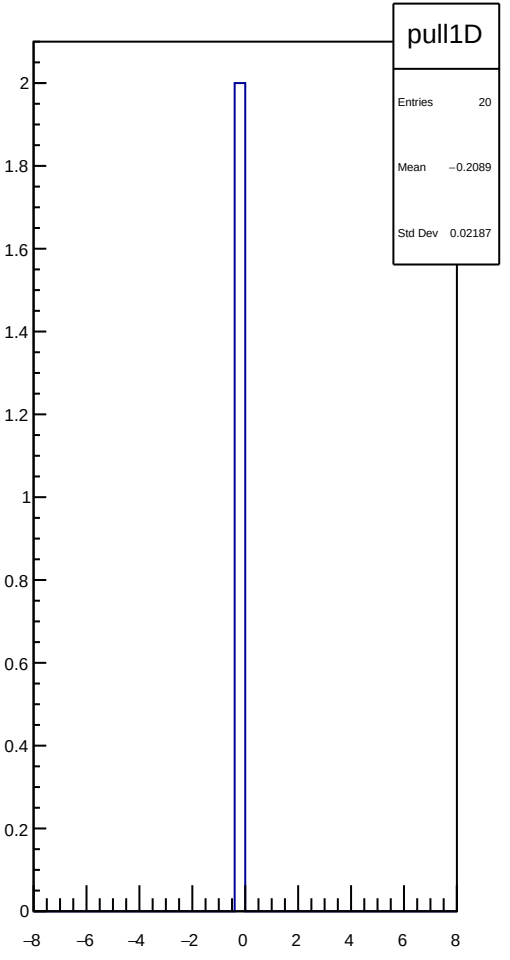

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2836 / 19
p0 190 ± 0.2996
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

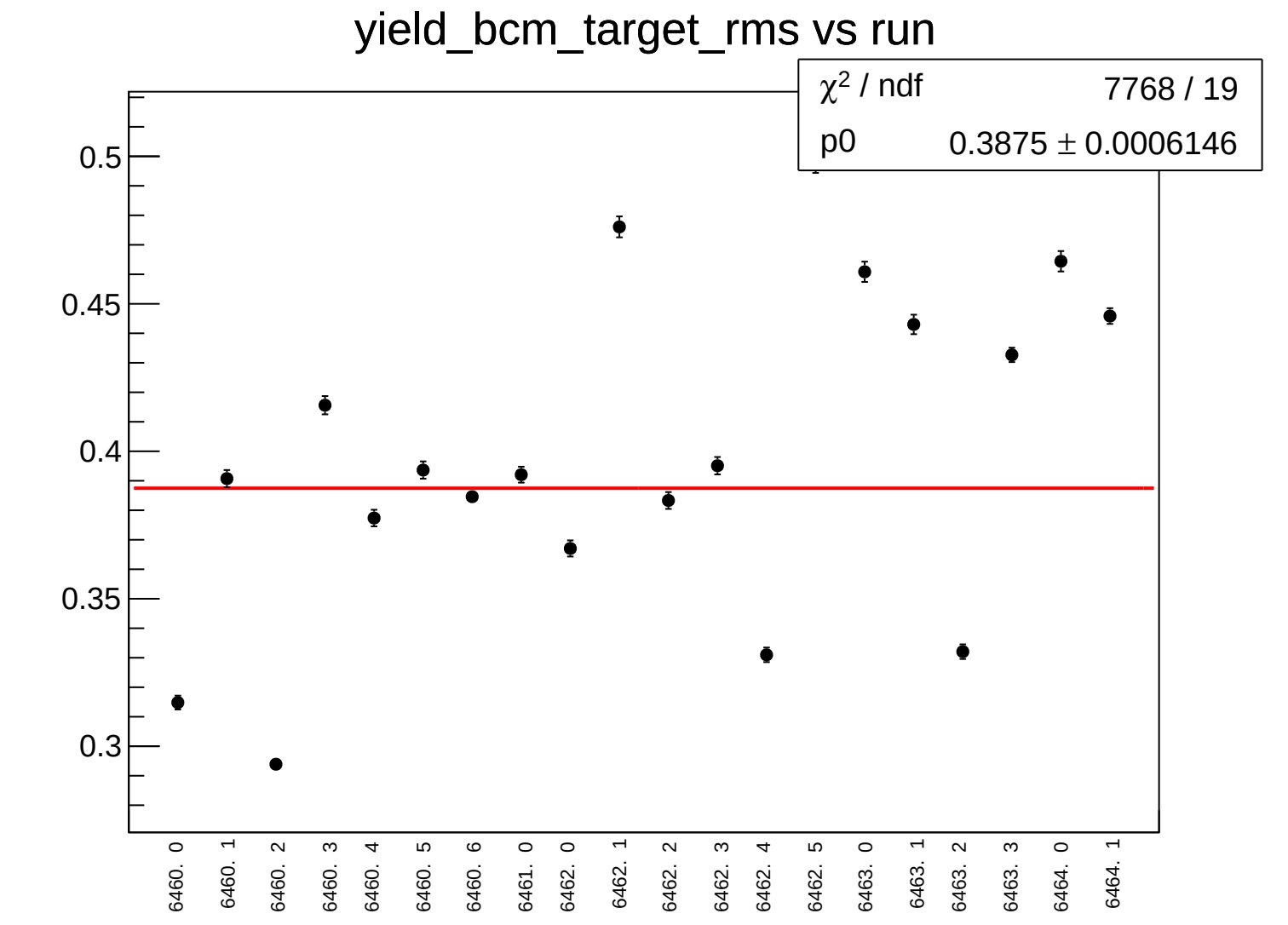

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 10.46 / 19
p0 144.4 ± 66.6
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 49.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.009163
Std Dev 0.723
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

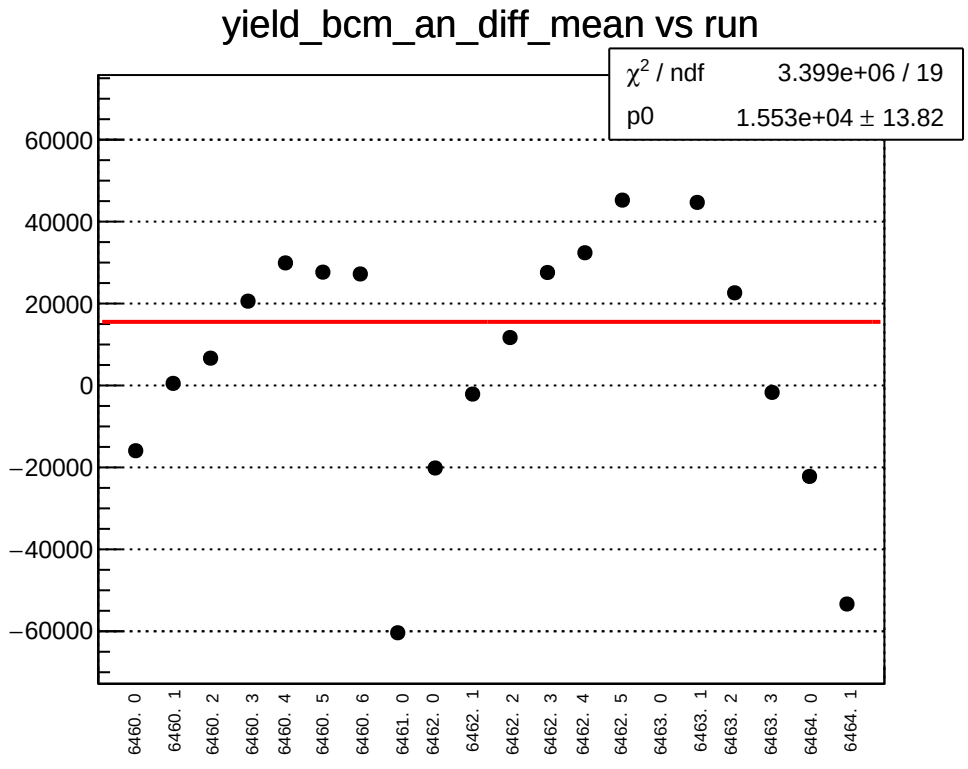

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1453 / 19
p0 29.93 ± 0.0471
34
33
32
31
30
29
28
27
26
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

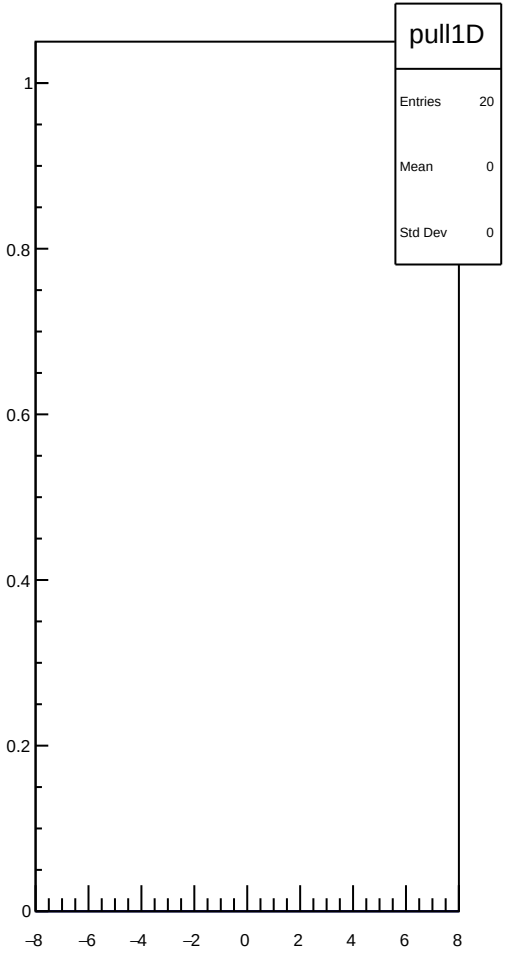

yield_bcm_target_mean vs run
χ² / ndf 7.523e+04 / 19
p0 148.7 ± 0.0008692
149.2
149.1
149
148.9
148.8
148.7
148.6
148.5
148.4
148.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

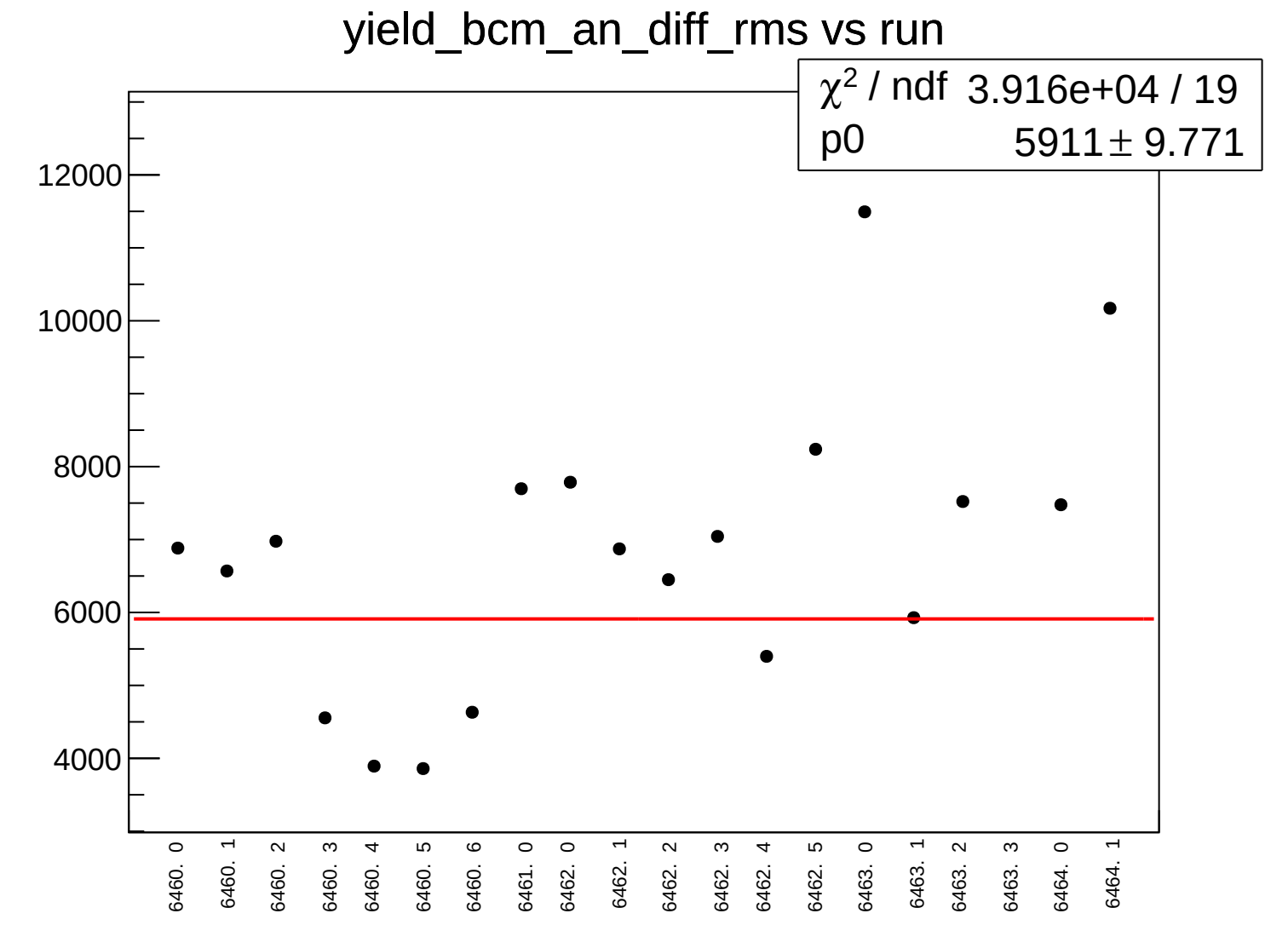

pull
Entries 20
Mean 50.53
Std Dev 0
100
50
0
−50
−100

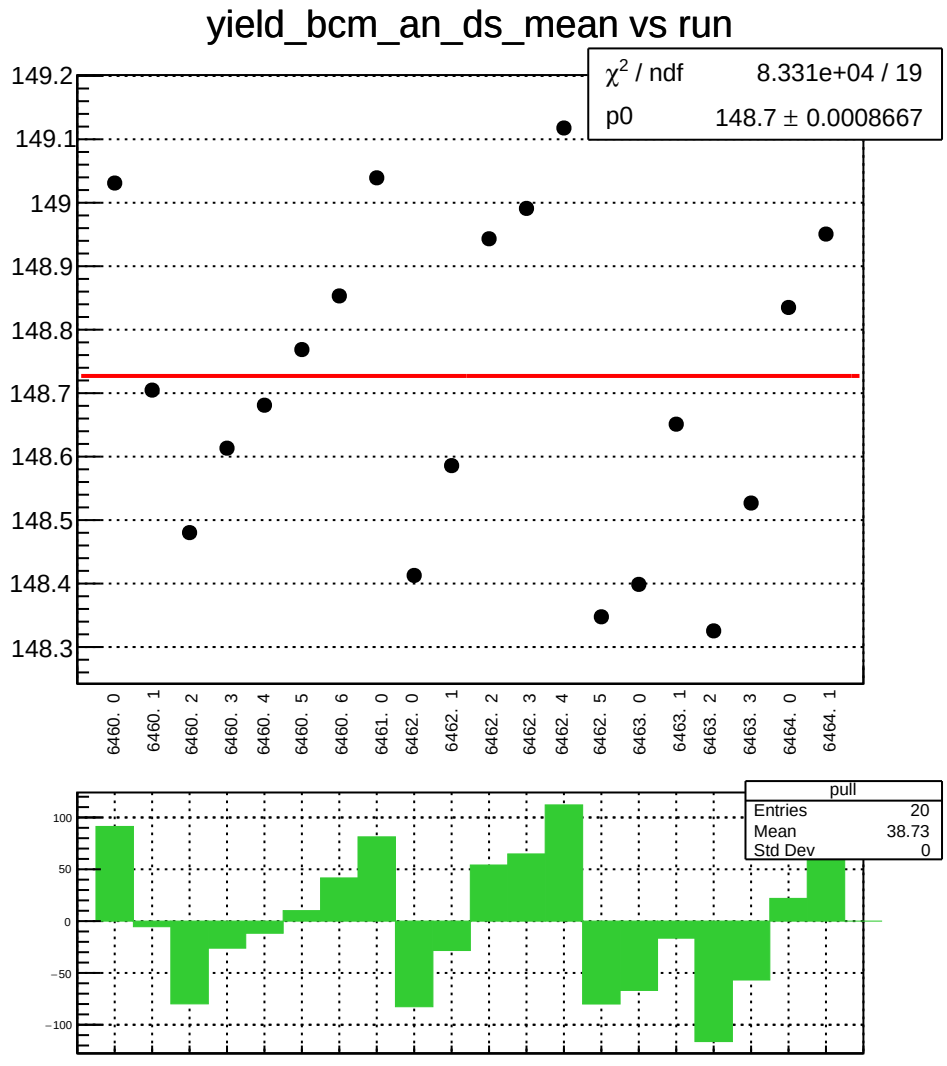

pull1D
Entries 20
Mean −0.2089
Std Dev 0.02187
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

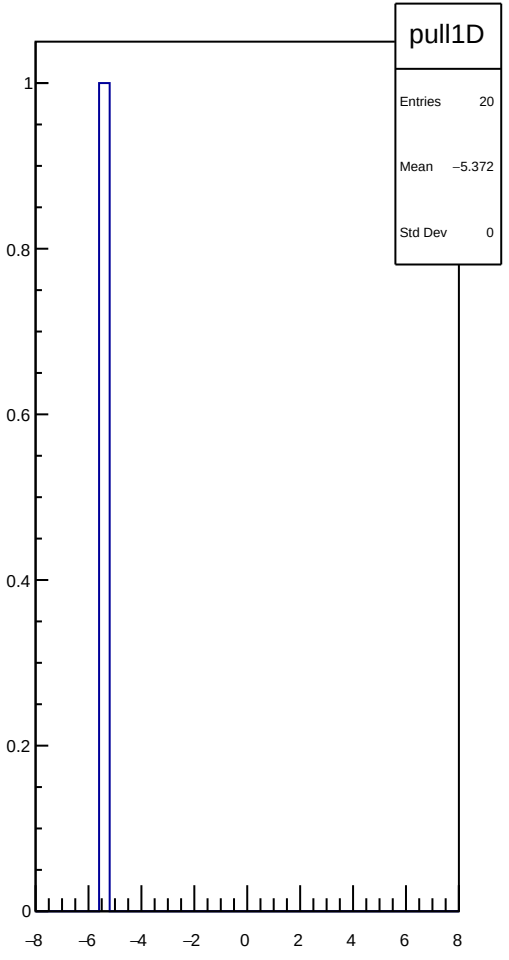

yield_bcm_target_rms vs run
χ² / ndf 7768 / 19
p0 0.3875 ± 0.0006146
0.5
0.45
0.4
0.35
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

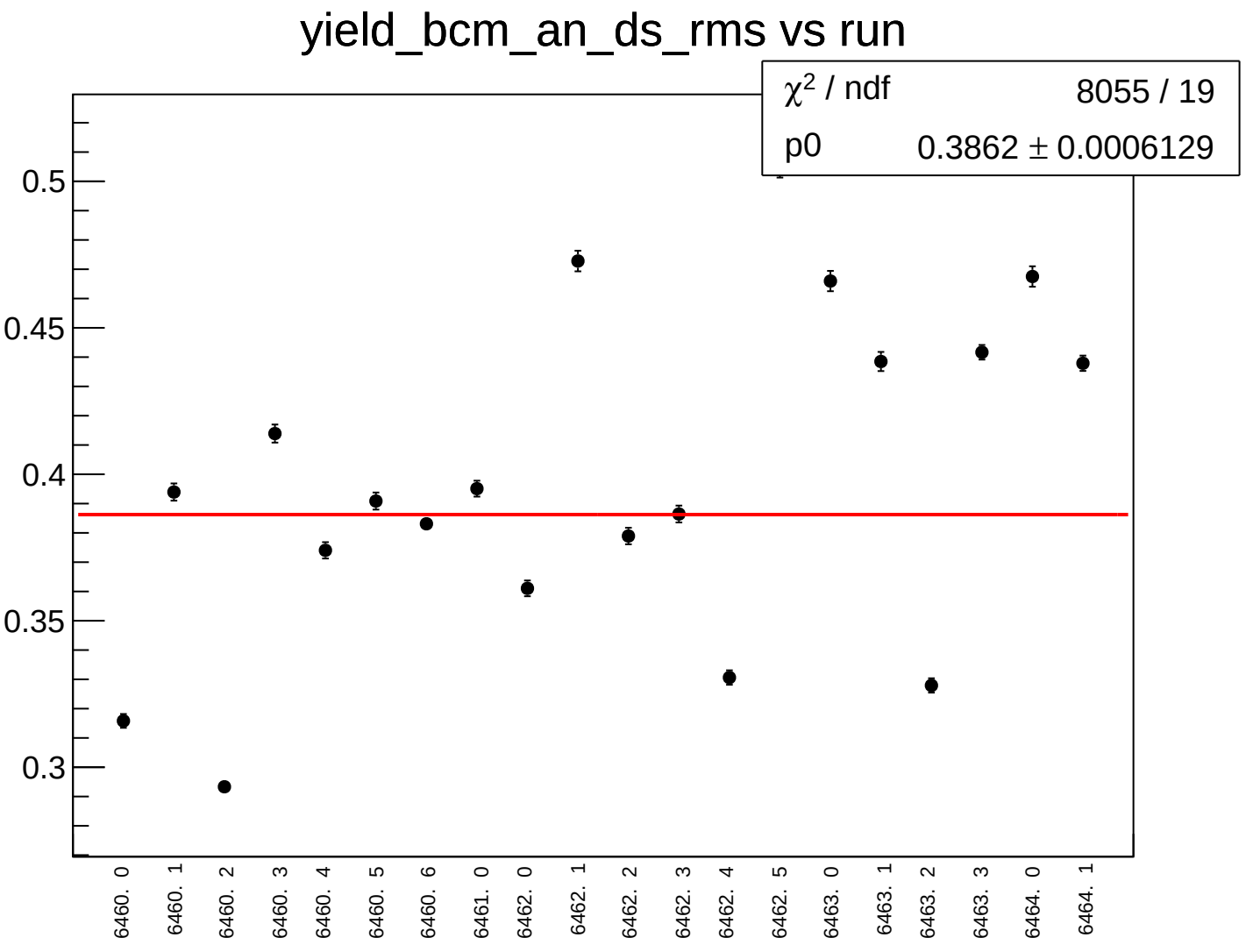

yield_bcm_an_diff_mean vs run
χ² / ndf 3.399e+06 / 19
p0 1.553e+04 ± 13.82
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10.61
Std Dev 10.72
400
200
0
−200
−400
−600
−800
−1000

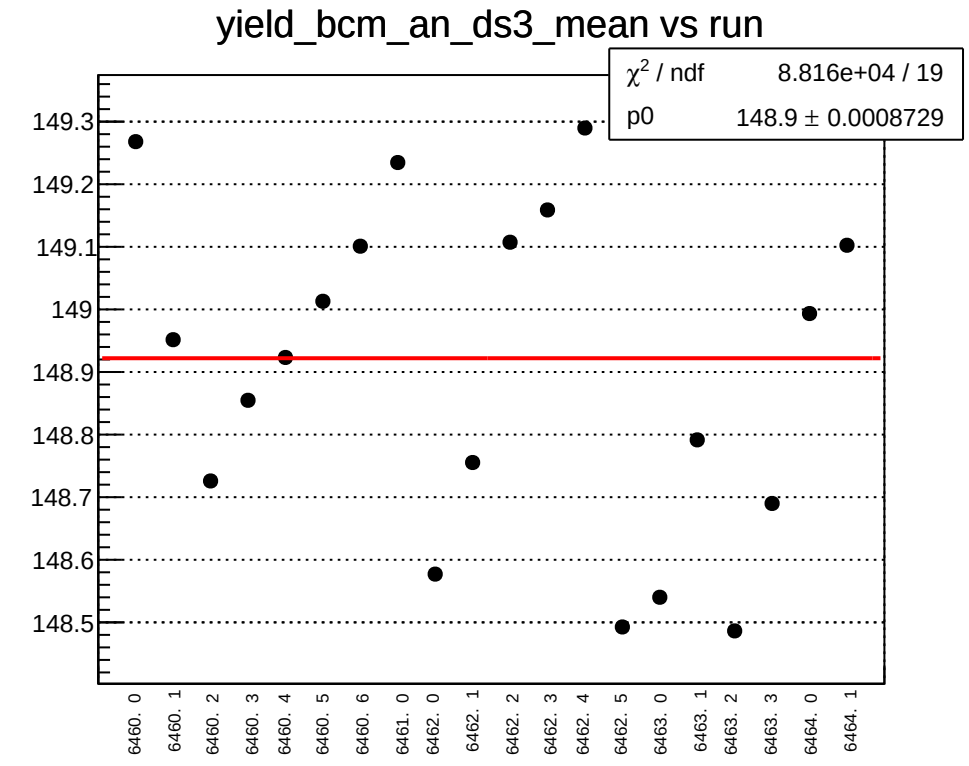

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

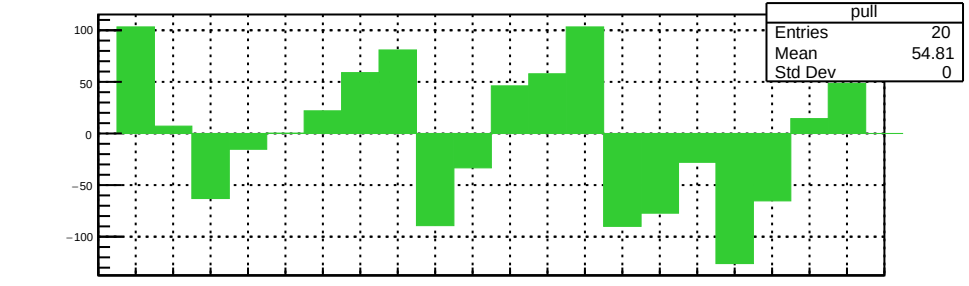

yield_bcm_an_diff_rms vs run
χ² / ndf 3.916e+04 / 19
p0 5911 ± 9.771
12000
10000
8000
6000
4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

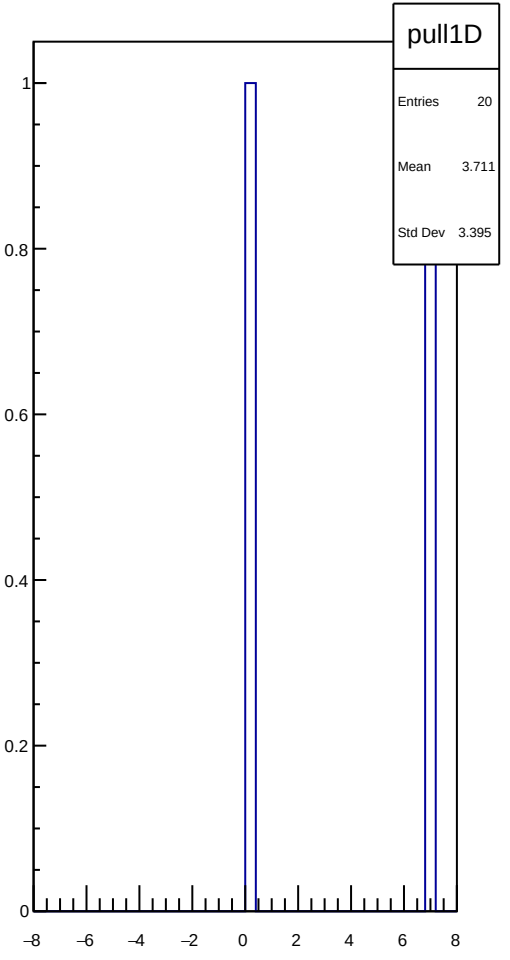

yield_bcm_an_ds_mean vs run
χ² / ndf 8.331e+04 / 19
p0 148.7 ± 0.0008667
149.2
149.1
149
148.9
148.8
148.7
148.6
148.5
148.4
148.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.73
Std Dev 0
100
50
0
−50
−100

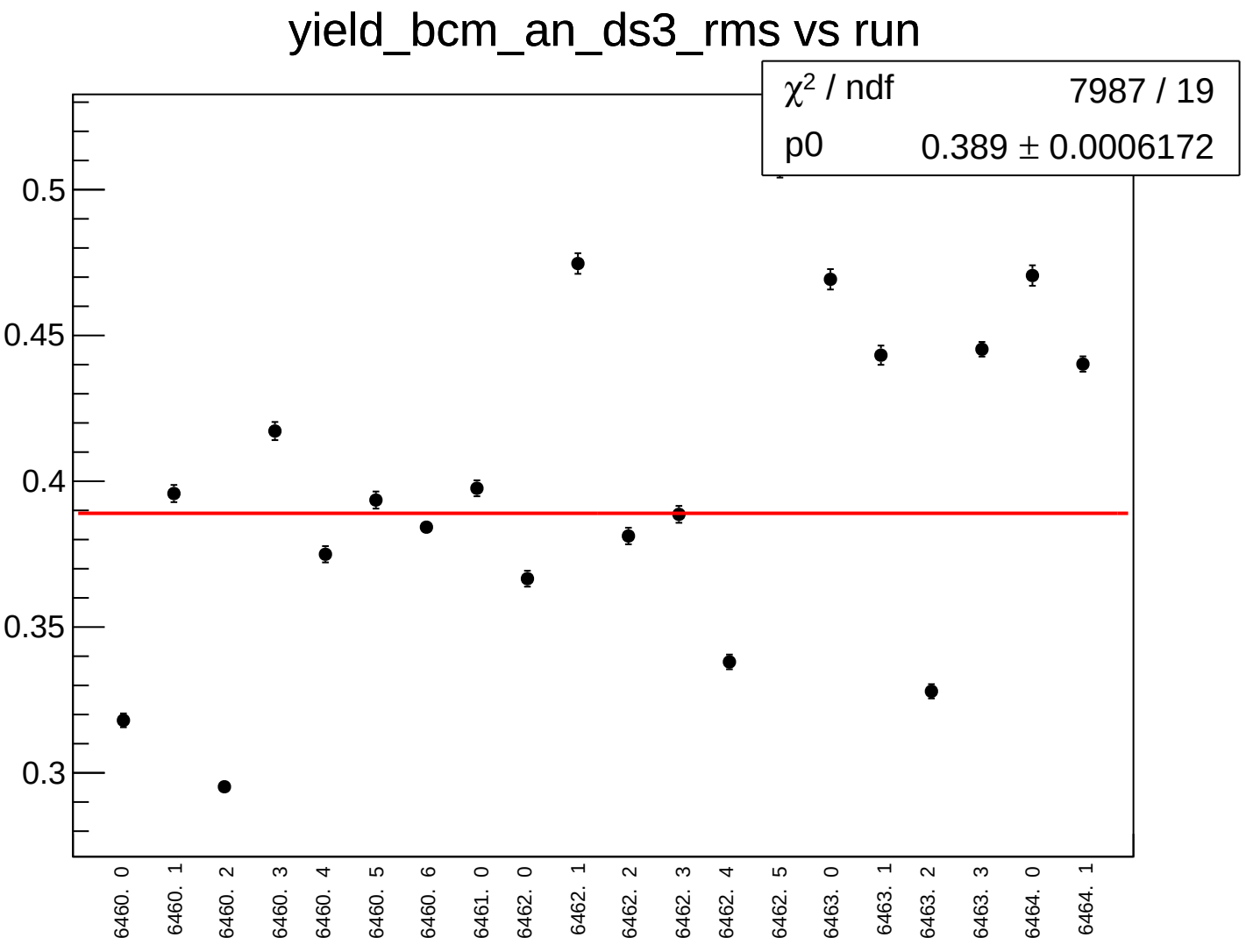

pull1D
Entries 20
Mean −5.372
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

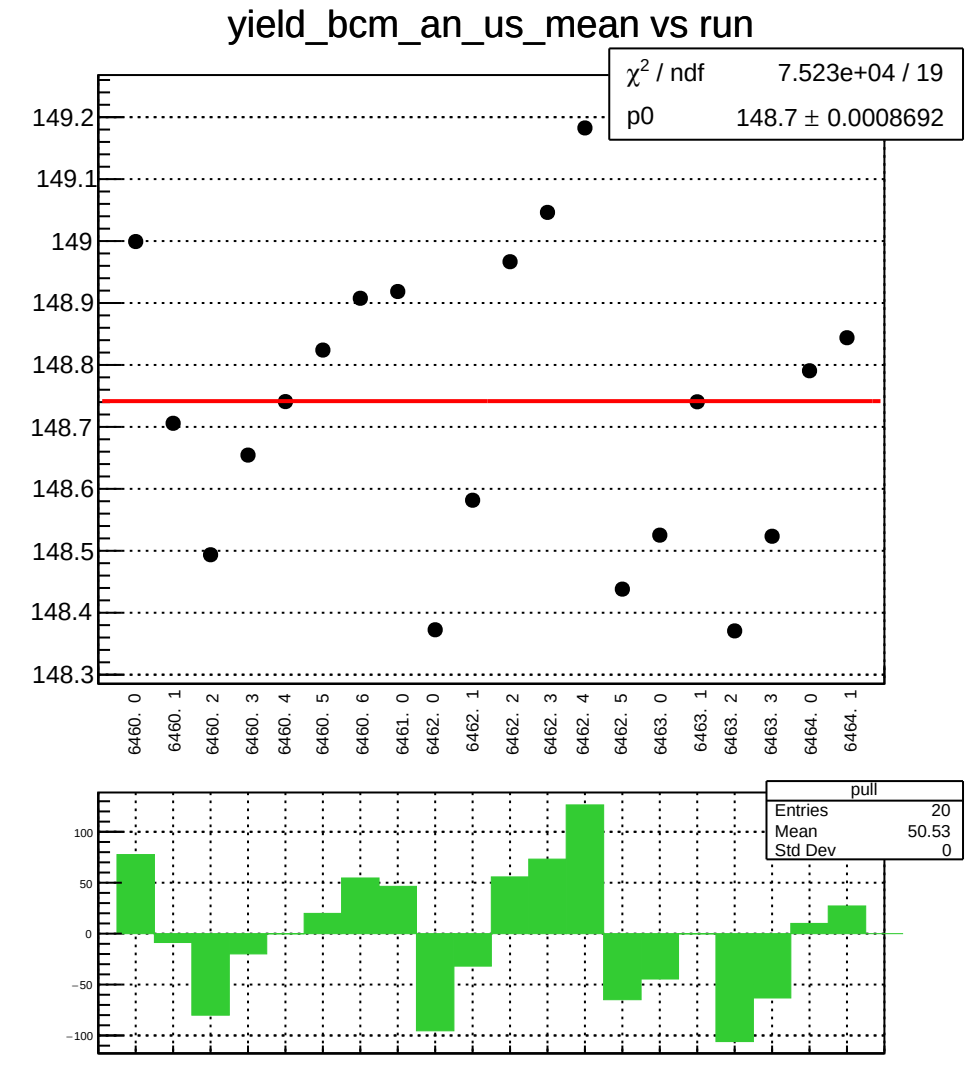

yield_bcm_an_ds_rms vs run
χ² / ndf 8055 / 19
p0 0.3862 ± 0.0006129
0.5
0.45
0.4
0.35
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

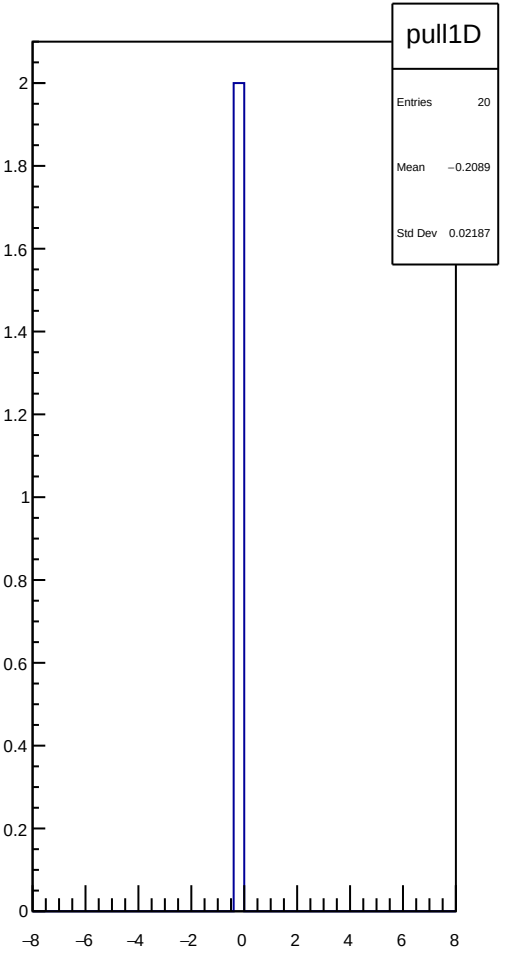

yield_bcm_an_ds3_mean vs run
χ² / ndf 8.816e+04 / 19
p0 148.9 ± 0.0008729
149.3
149.2
149.1
149
148.9
148.8
148.7
148.6
148.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

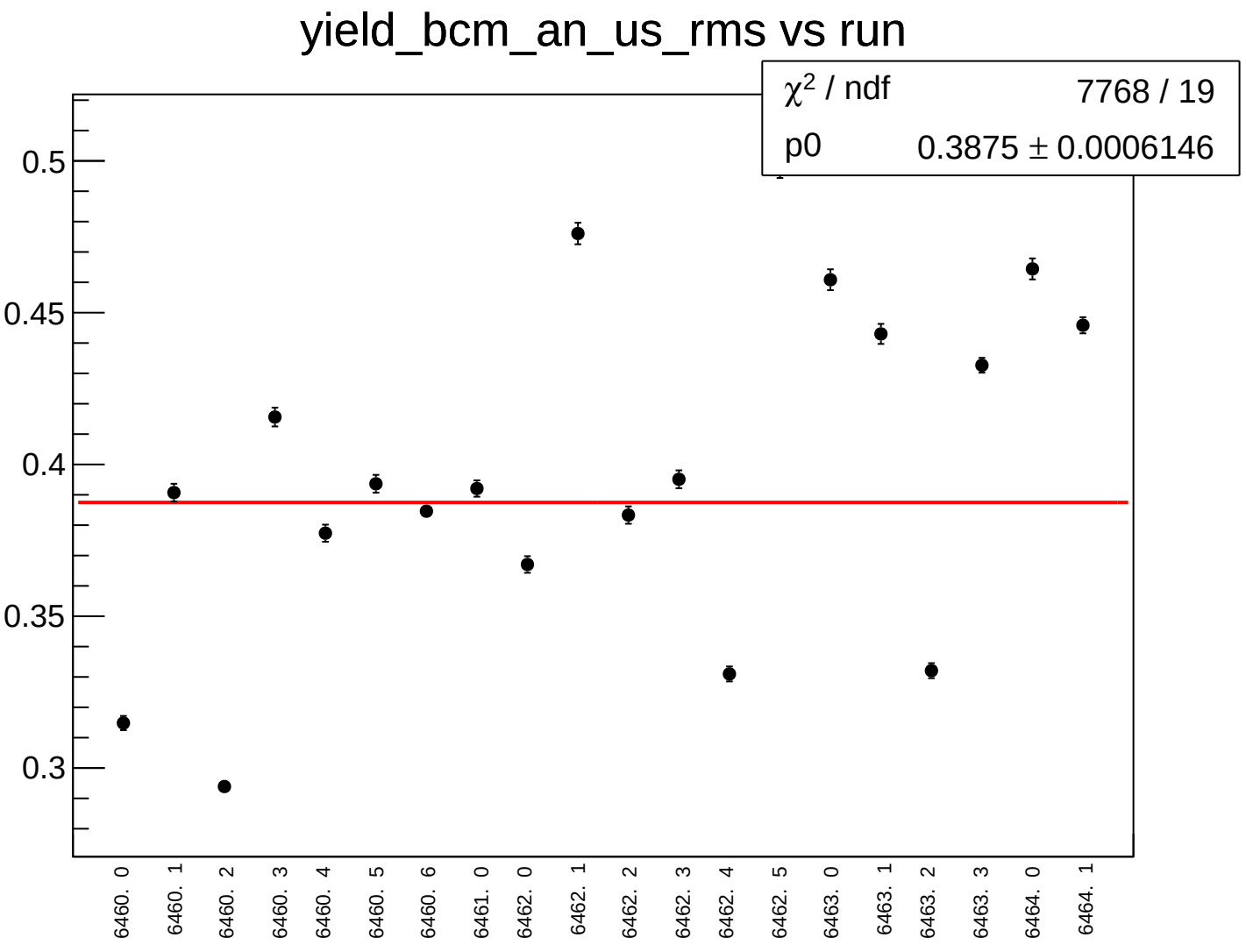

pull
Entries 20
Mean 54.81
Std Dev 0
100
50
0
−50
−100

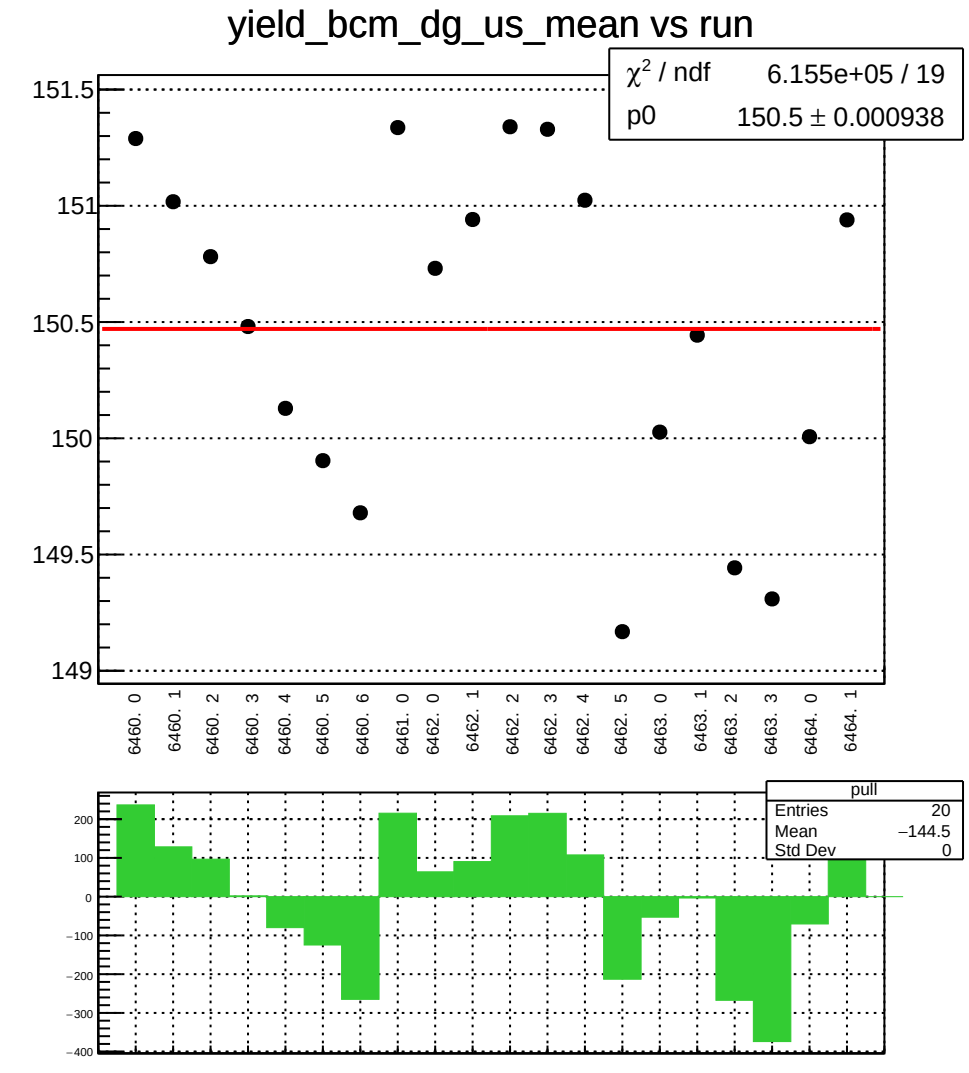

pull1D
Entries 20
Mean 3.711
Std Dev 3.395
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

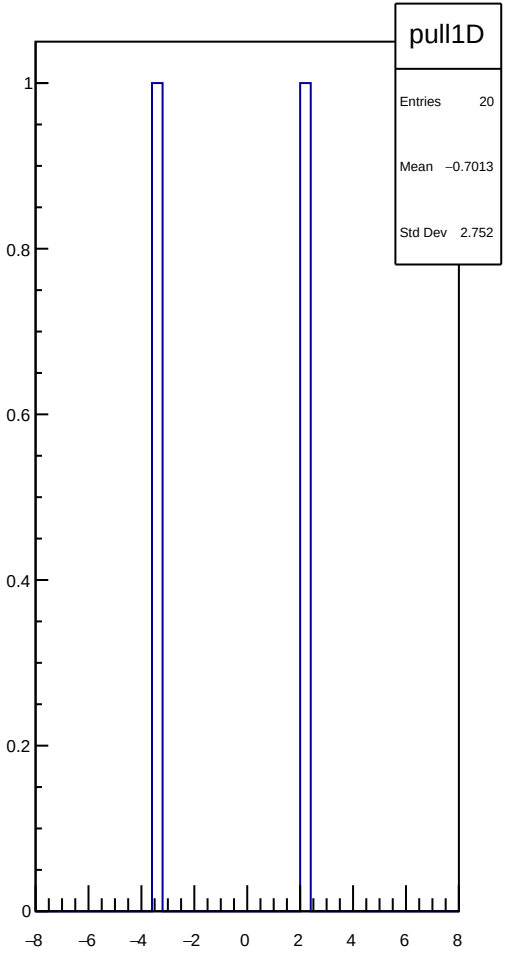

yield_bcm_an_ds3_rms vs run
χ² / ndf 7987 / 19
p0 0.389 ± 0.0006172
0.5
0.45
0.4
0.35
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

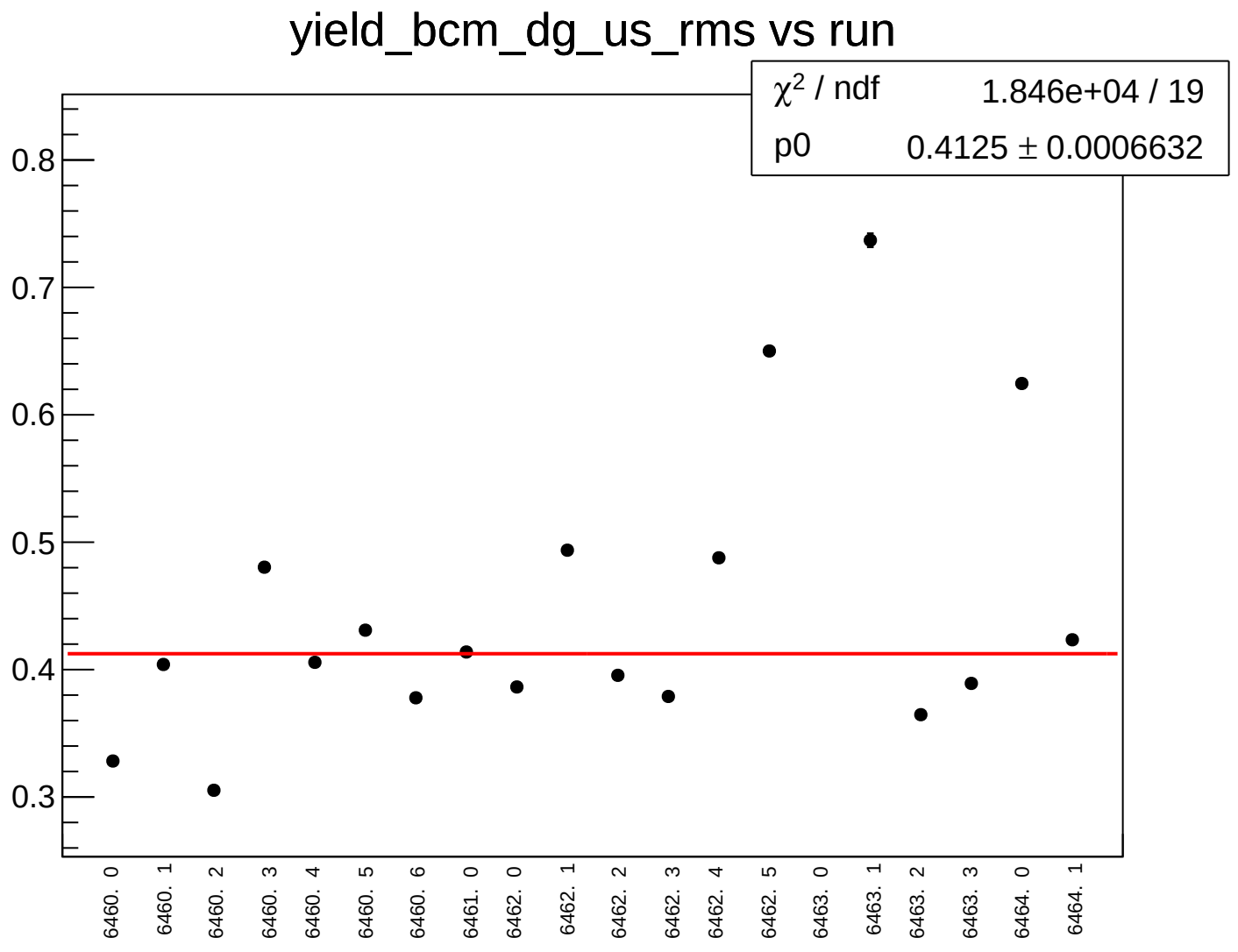

yield_bcm_an_us_mean vs run
χ² / ndf 7.523e+04 / 19
p0 148.7 ± 0.0008692
149.2
149.1
149
148.9
148.8
148.7
148.6
148.5
148.4
148.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 50.53
Std Dev 0
100
50
0
−50
−100

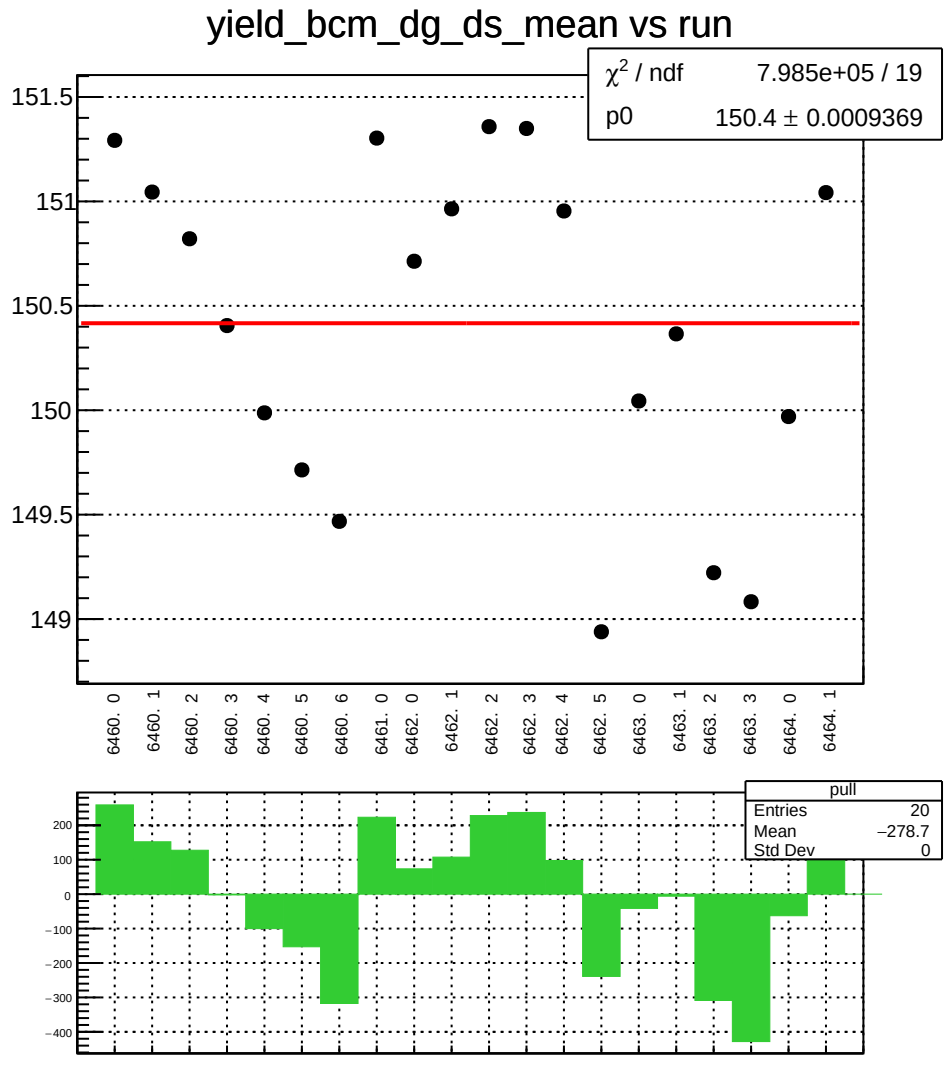

pull1D
Entries 20
Mean −0.2089
Std Dev 0.02187
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

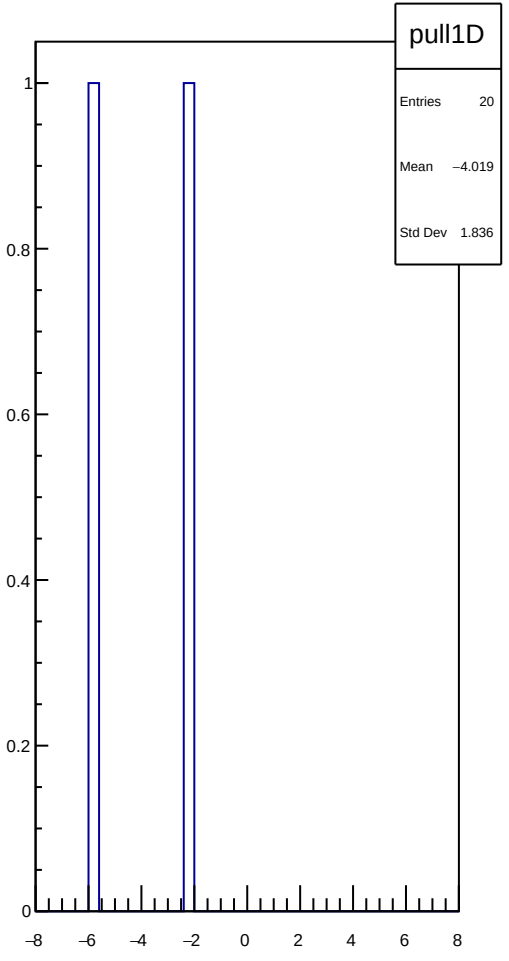

yield_bcm_an_us_rms vs run
χ² / ndf 7768 / 19
p0 0.3875 ± 0.0006146
0.5
0.45
0.4
0.35
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

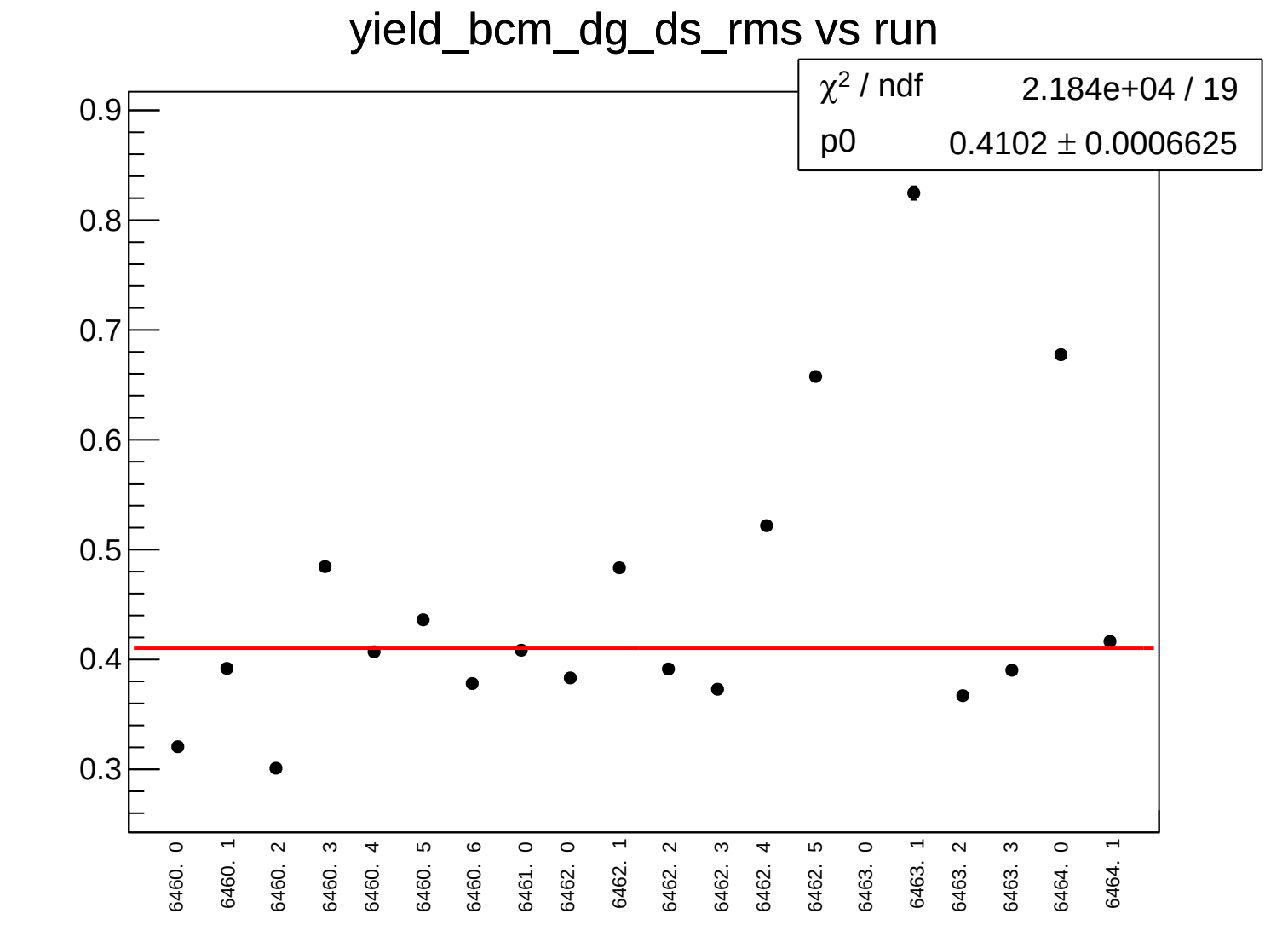

yield_bcm_dg_us_mean vs run
χ² / ndf 6.155e+05 / 19
p0 150.5 ± 0.000938
151.5
151
150.5
150
149.5
149
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −144.5
Std Dev 0
200
100
0
−100
−200
−300
−400

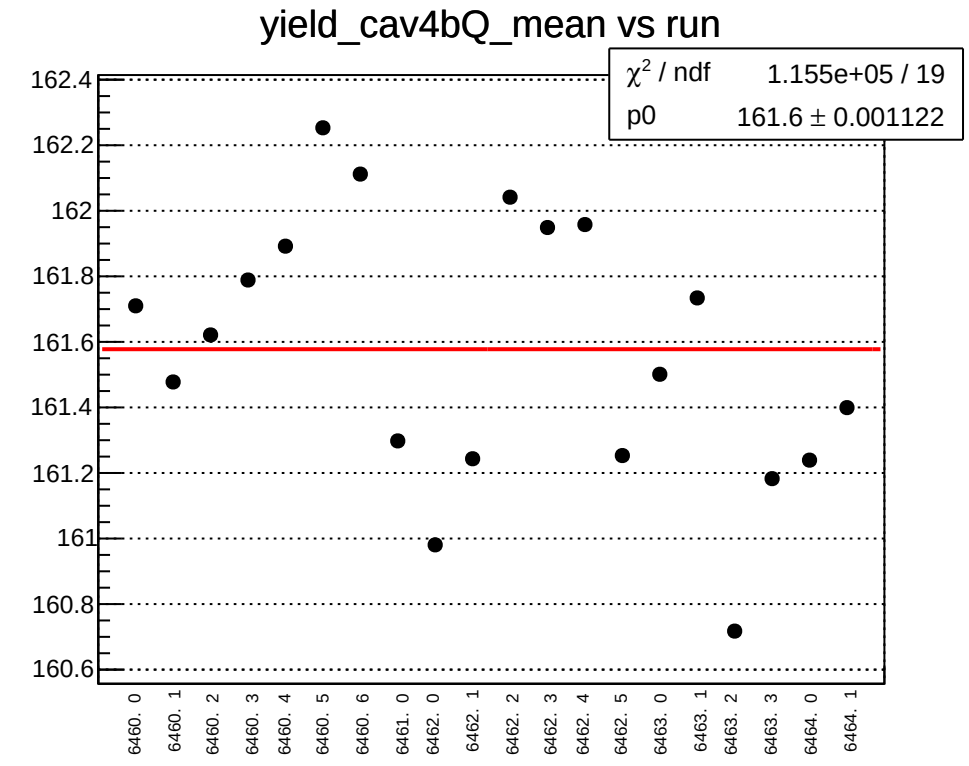

pull1D
Entries 20
Mean −0.7013
Std Dev 2.752
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

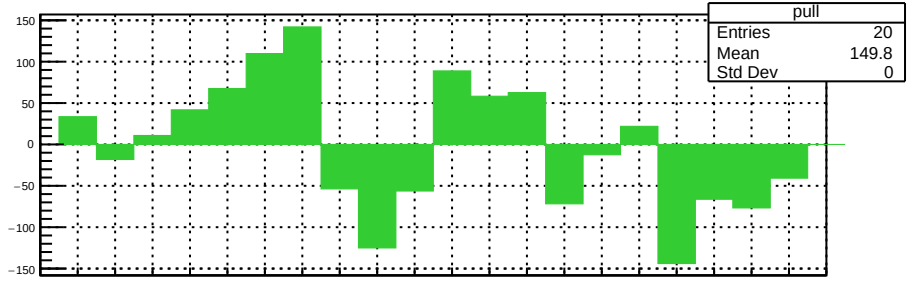

yield_bcm_dg_us_rms vs run
χ² / ndf 1.846e+04 / 19
p0 0.4125 ± 0.0006632
0.8
0.7
0.6
0.5
0.4
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

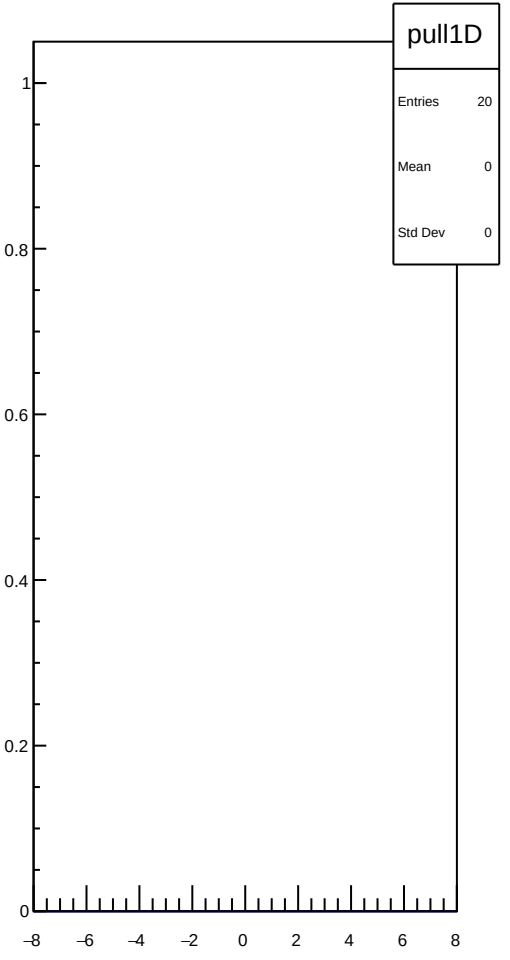

yield_bcm_dg_ds_mean vs run
χ² / ndf 7.985e+05 / 19
p0 150.4 ± 0.0009369
151.5
151
150.5
150
149.5
149
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −278.7
Std Dev 0
200
100
0
−100
−200
−300
−400

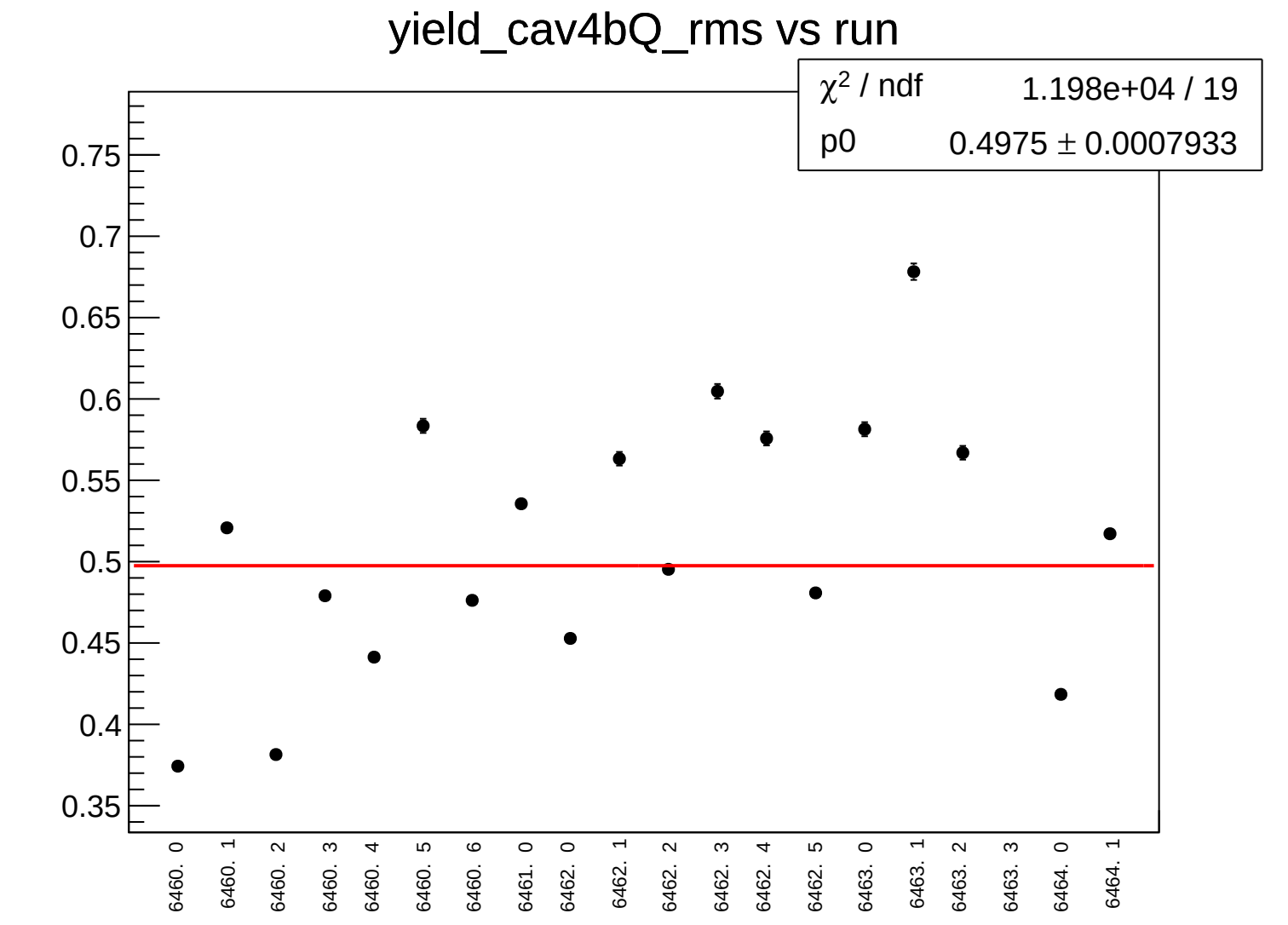

pull1D
Entries 20
Mean −4.019
Std Dev 1.836
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

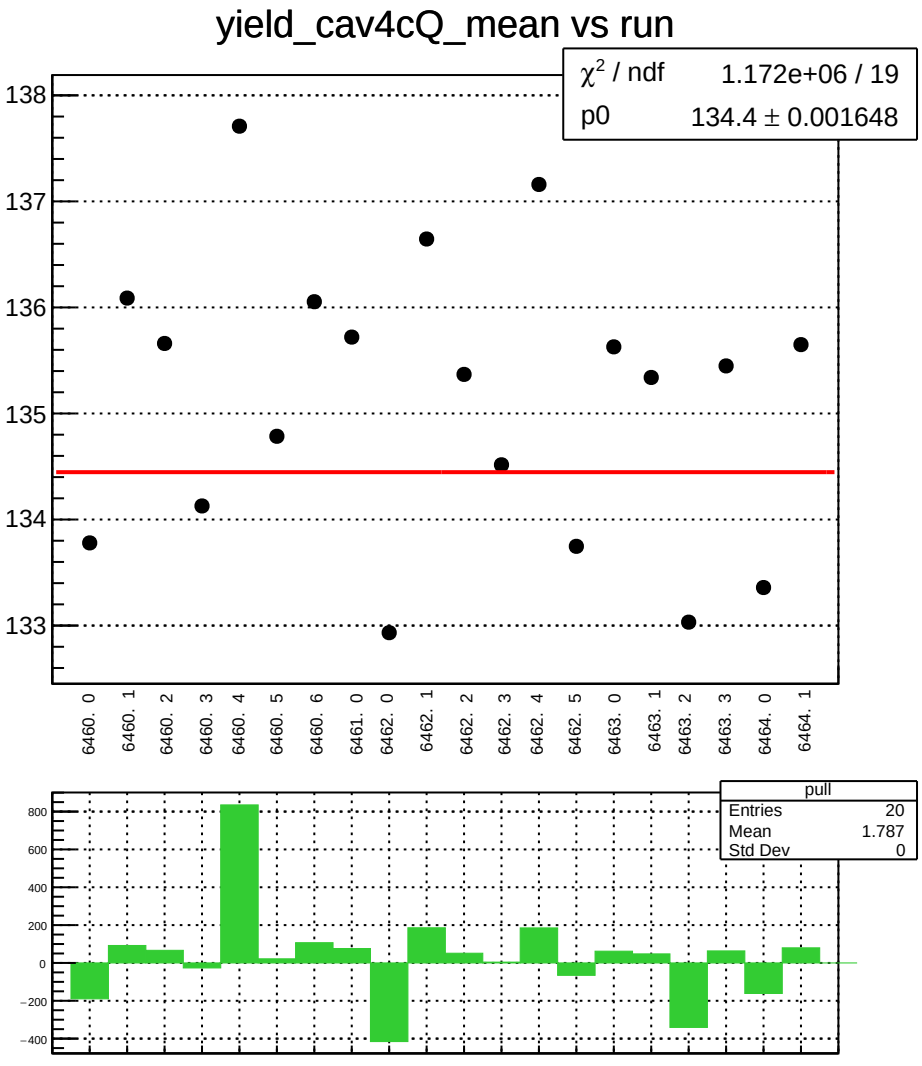

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.184e+04 / 19
p0 0.4102 ± 0.0006625
0.9
0.8
0.7
0.6
0.5
0.4
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

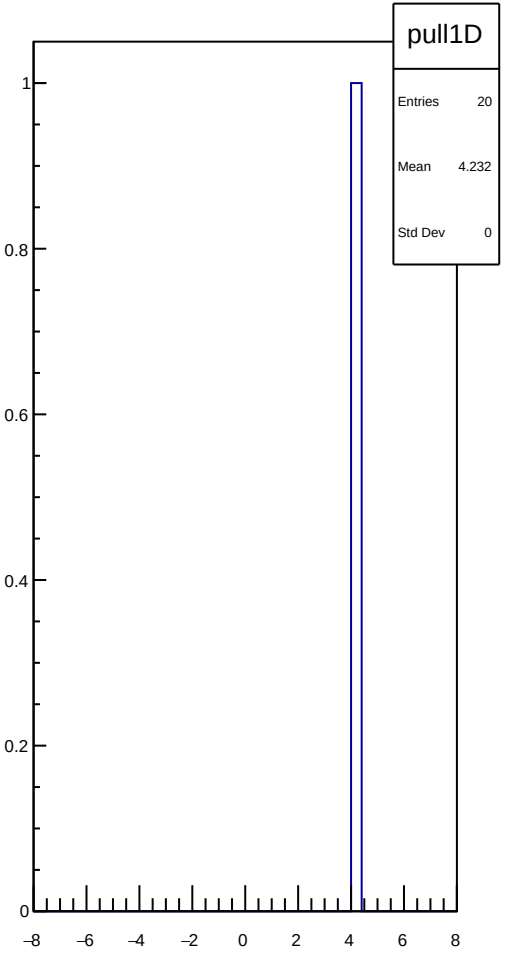

yield_cav4bQ_mean vs run
χ² / ndf 1.155e+05 / 19
p0 161.6 ± 0.001122
162.4
162.2
162
161.8
161.6
161.4
161.2
161
160.8
160.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

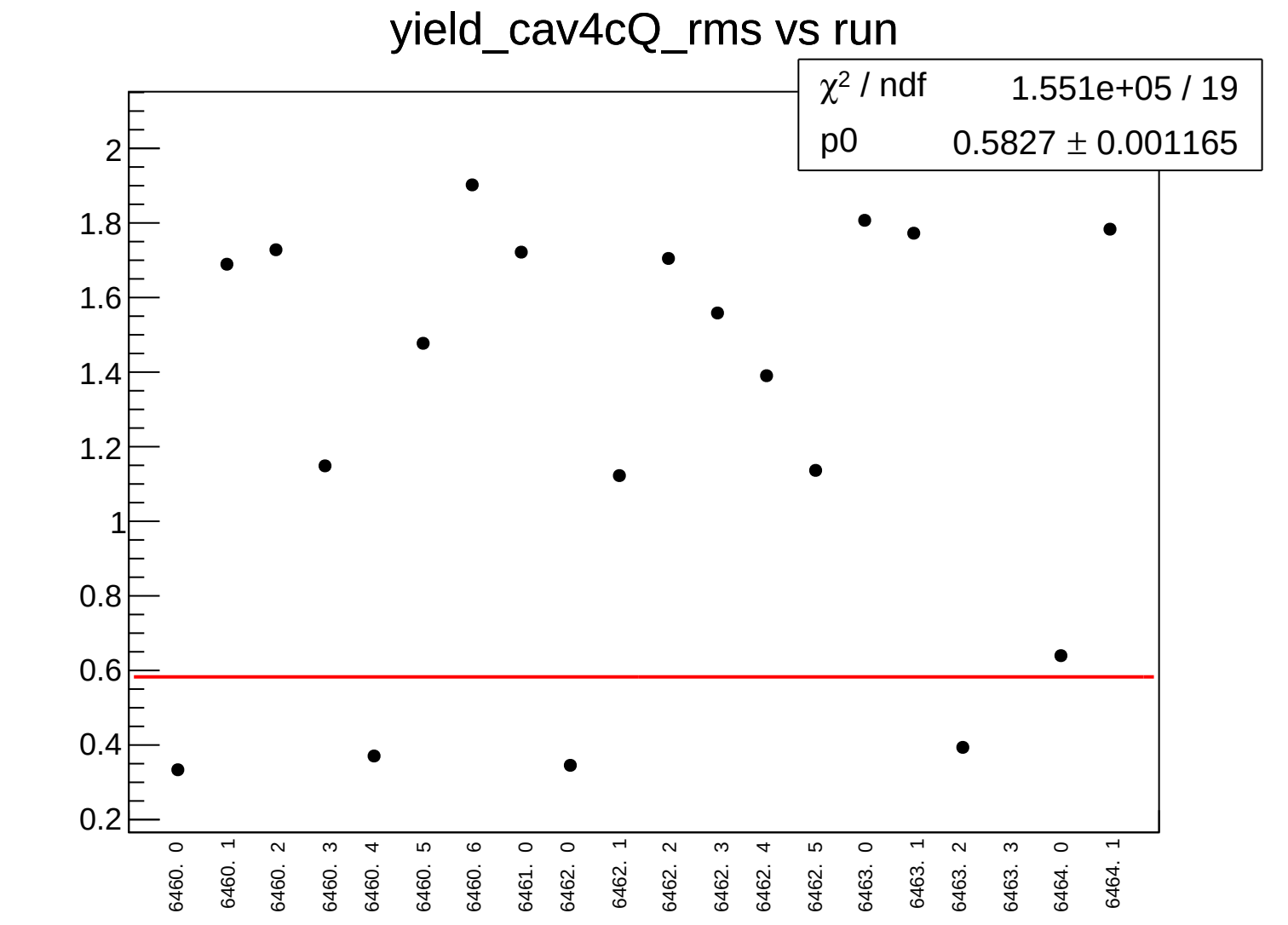

pull
Entries 20
Mean 149.8
Std Dev 0
150
100
50
0
−50
−100
−150

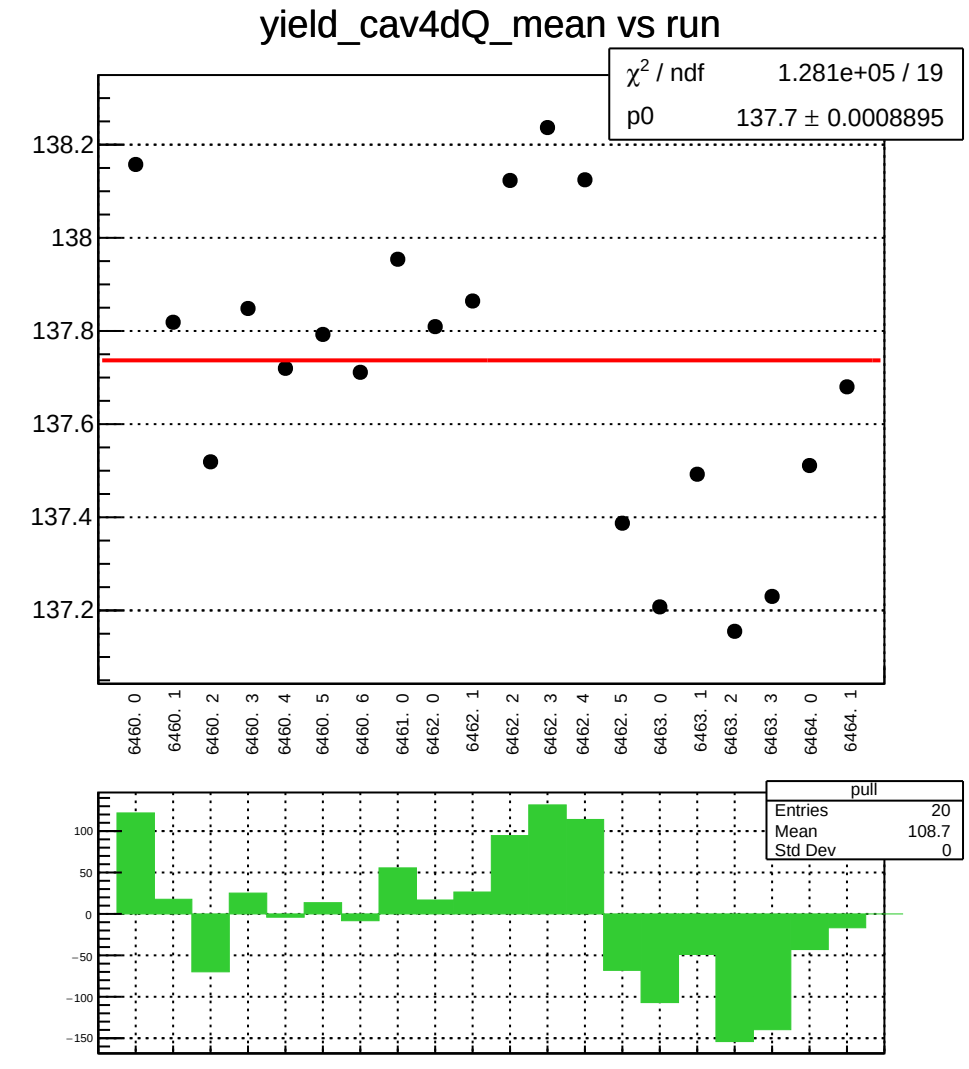

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

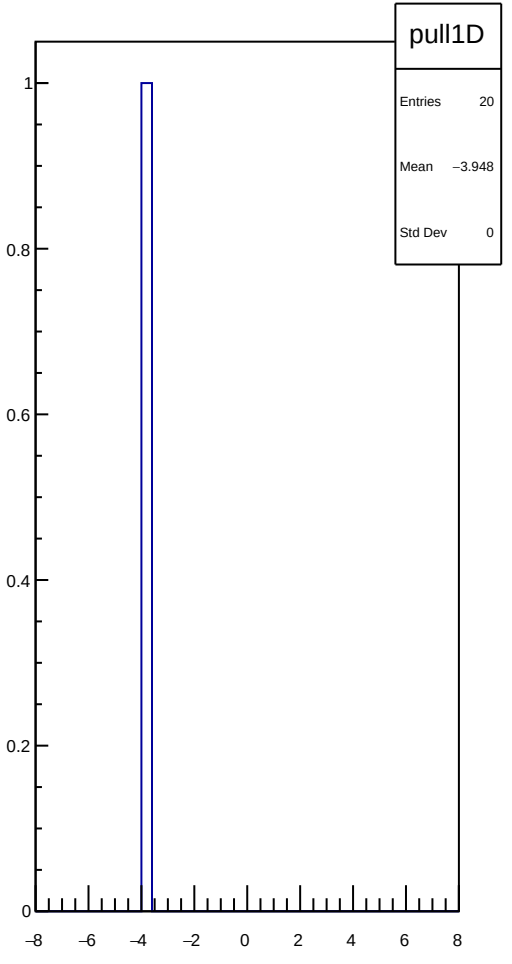

yield_cav4bQ_rms vs run
χ² / ndf 1.198e+04 / 19
p0 0.4975 ± 0.0007933
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

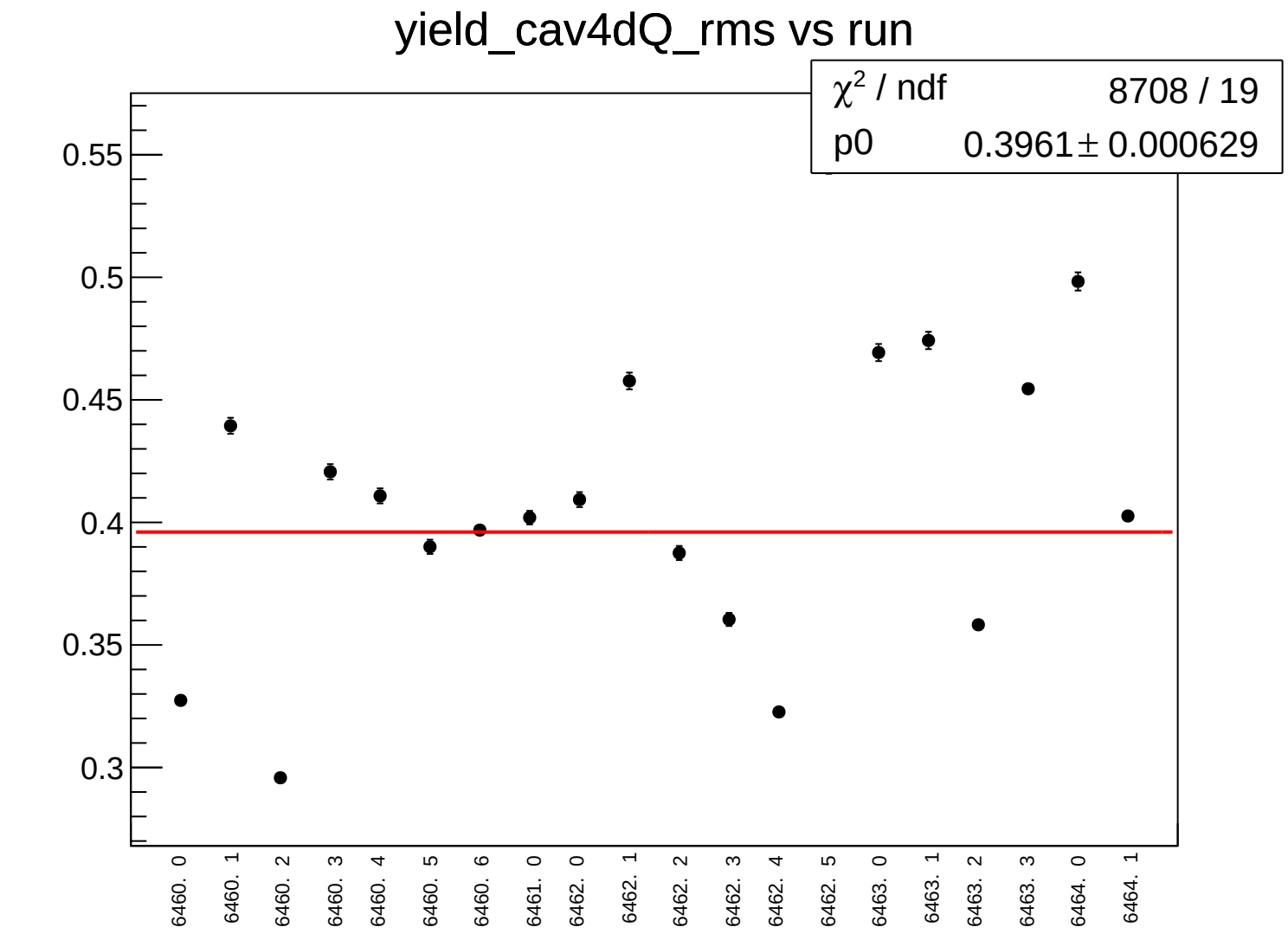

yield_cav4cQ_mean vs run
χ² / ndf 1.172e+06 / 19
p0 134.4 ± 0.001648
138
137
136
135
134
133
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.787
Std Dev 0
800
600
400
200
0
−200
−400

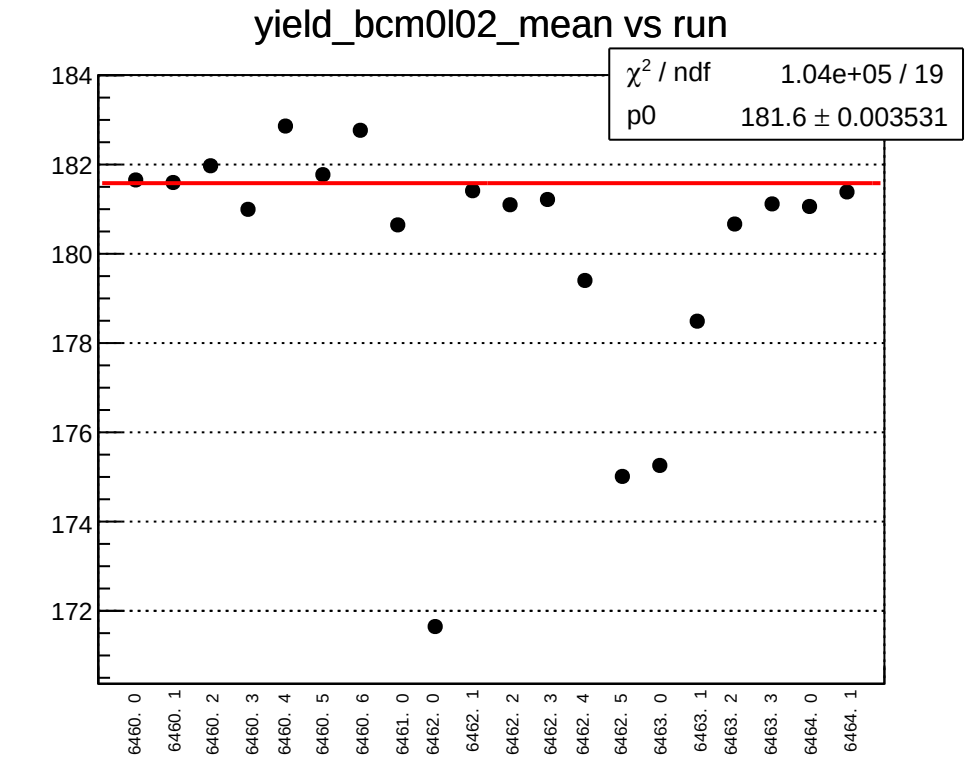

pull1D
Entries 20
Mean 4.232
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

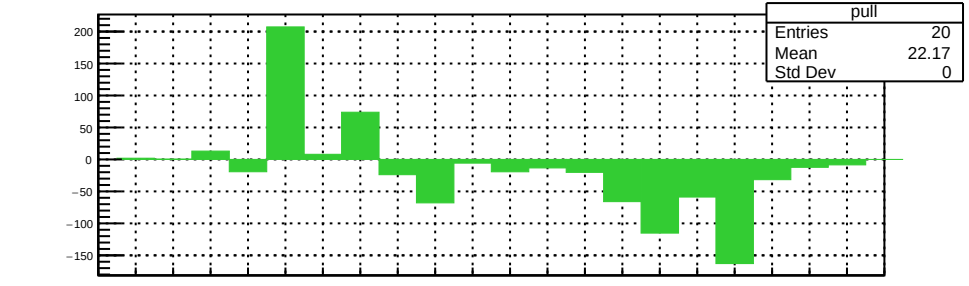

yield_cav4cQ_rms vs run
χ² / ndf 1.551e+05 / 19
p0 0.5827 ± 0.001165
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

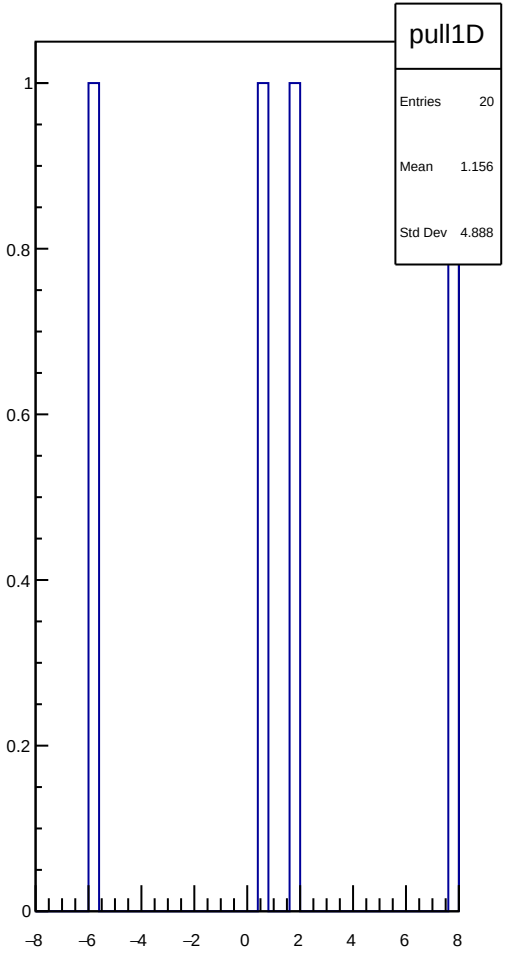

yield_cav4dQ_mean vs run
χ² / ndf 1.281e+05 / 19
p0 137.7 ± 0.0008895
138.2
138
137.8
137.6
137.4
137.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 108.7
Std Dev 0
100
50
0
−50
−100
−150

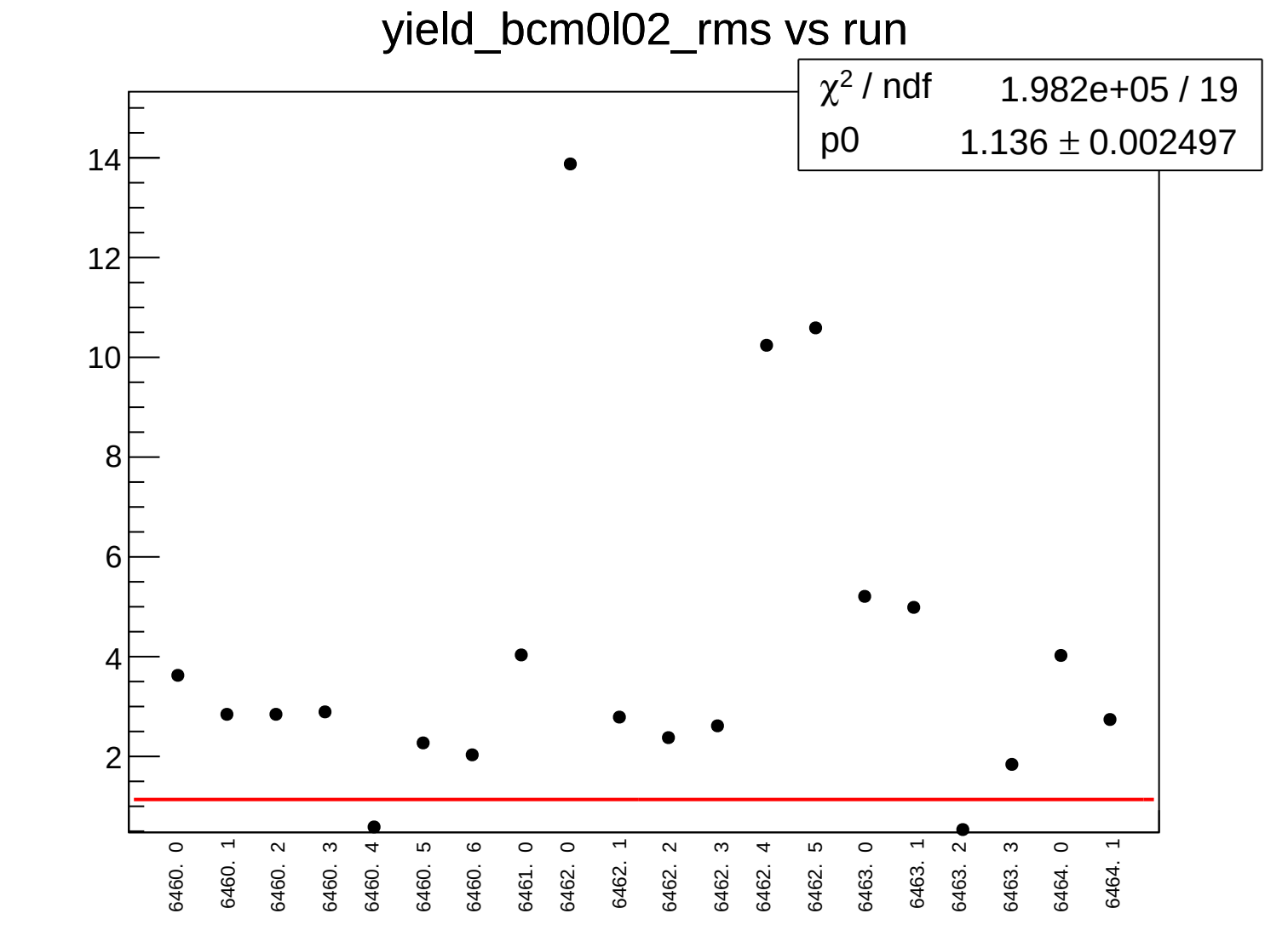

pull1D
Entries 20
Mean −3.948
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

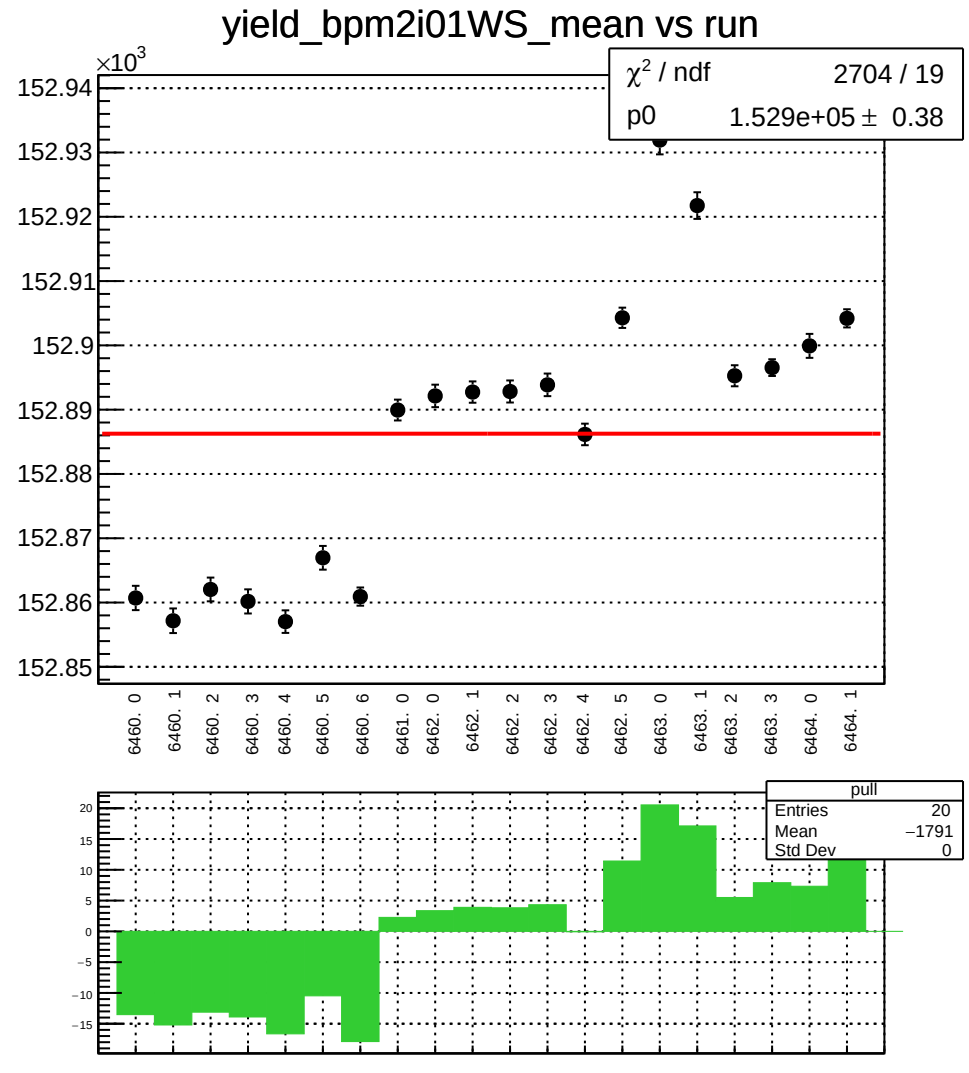

yield_cav4dQ_rms vs run
χ² / ndf 8708 / 19
p0 0.3961 ± 0.000629
0.55
0.5
0.45
0.4
0.35
0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

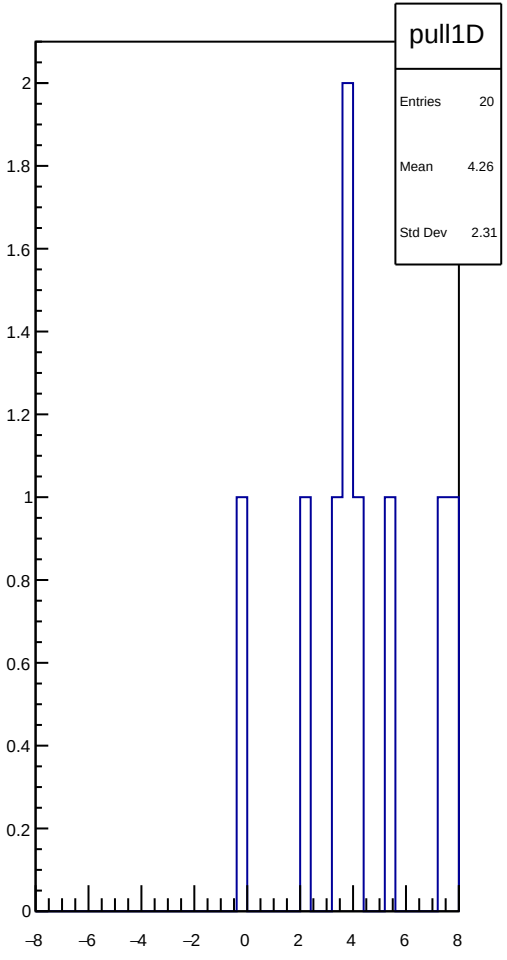

yield_bcm0l02_mean vs run
χ² / ndf 1.04e+05 / 19
p0 181.6 ± 0.003531
184
182
180
178
176
174
172
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

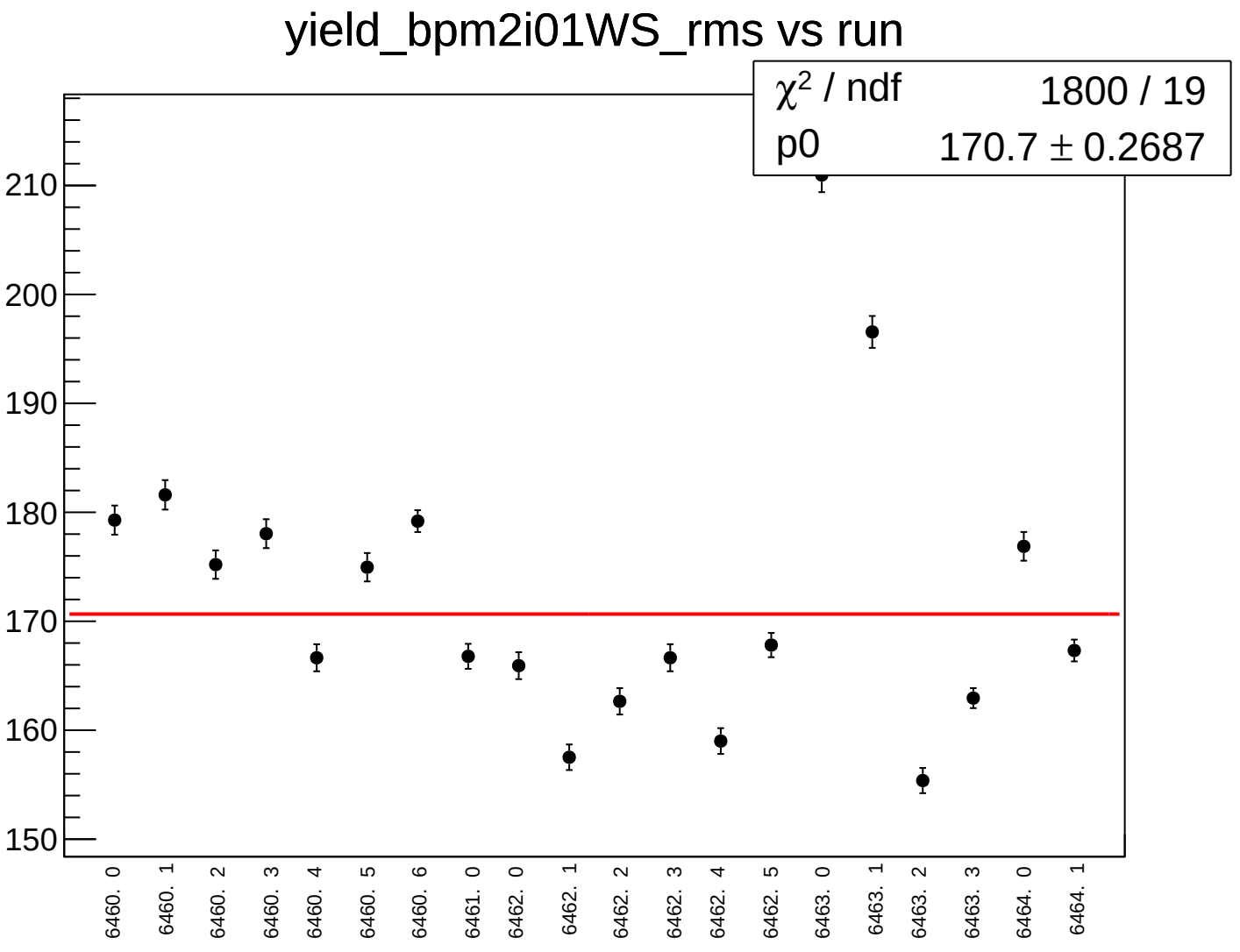

pull
Entries 20
Mean 22.17
Std Dev 0
200
150
100
50
0
−50
−100
−150

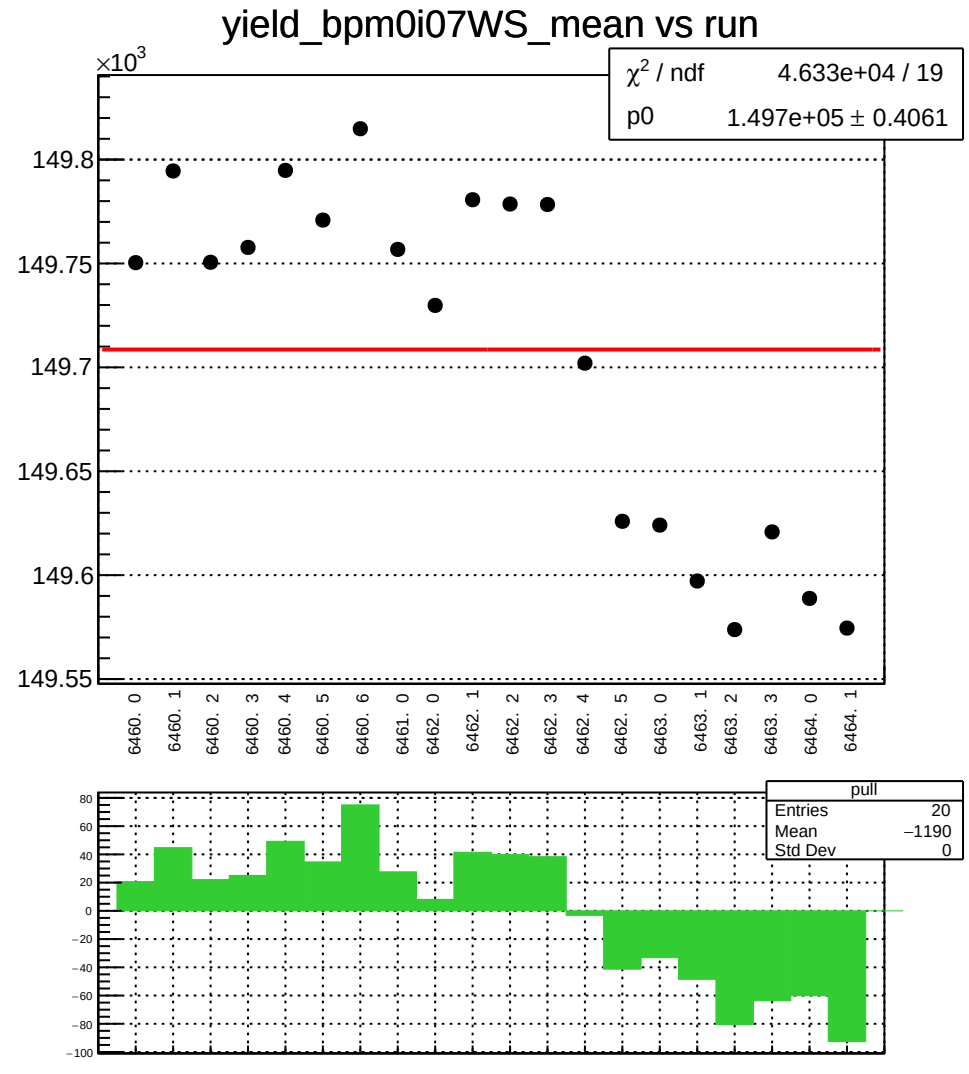

pull1D
Entries 20
Mean 1.156
Std Dev 4.888
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

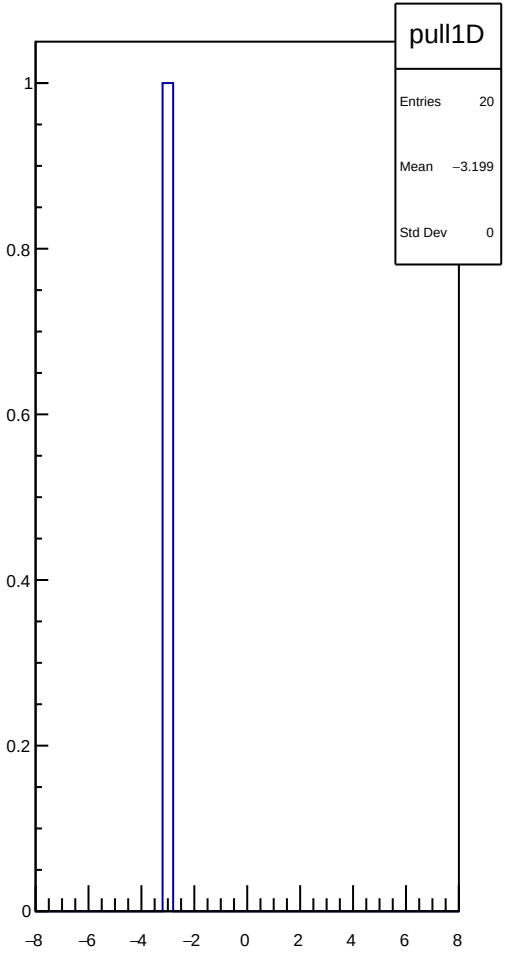

yield_bcm0l02_rms vs run
χ² / ndf 1.982e+05 / 19
p0 1.136 ± 0.002497
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

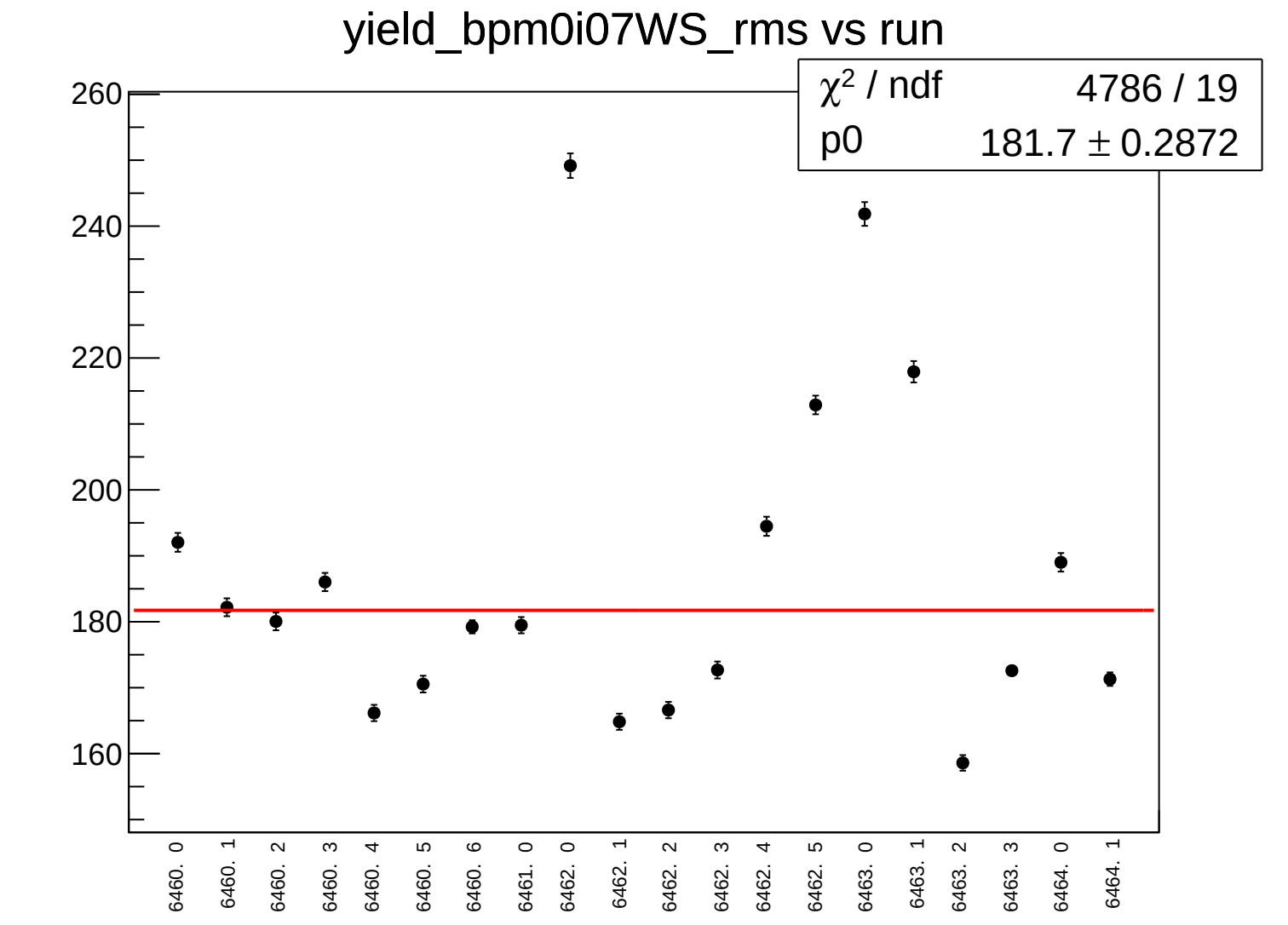

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 2704 / 19
p0 1.529e+05 ± 0.38
152.94
152.93
152.92
152.91
152.9
152.89
152.88
152.87
152.86
152.85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1791
Std Dev 0
20
15
10
5
0
−5
−10
−15

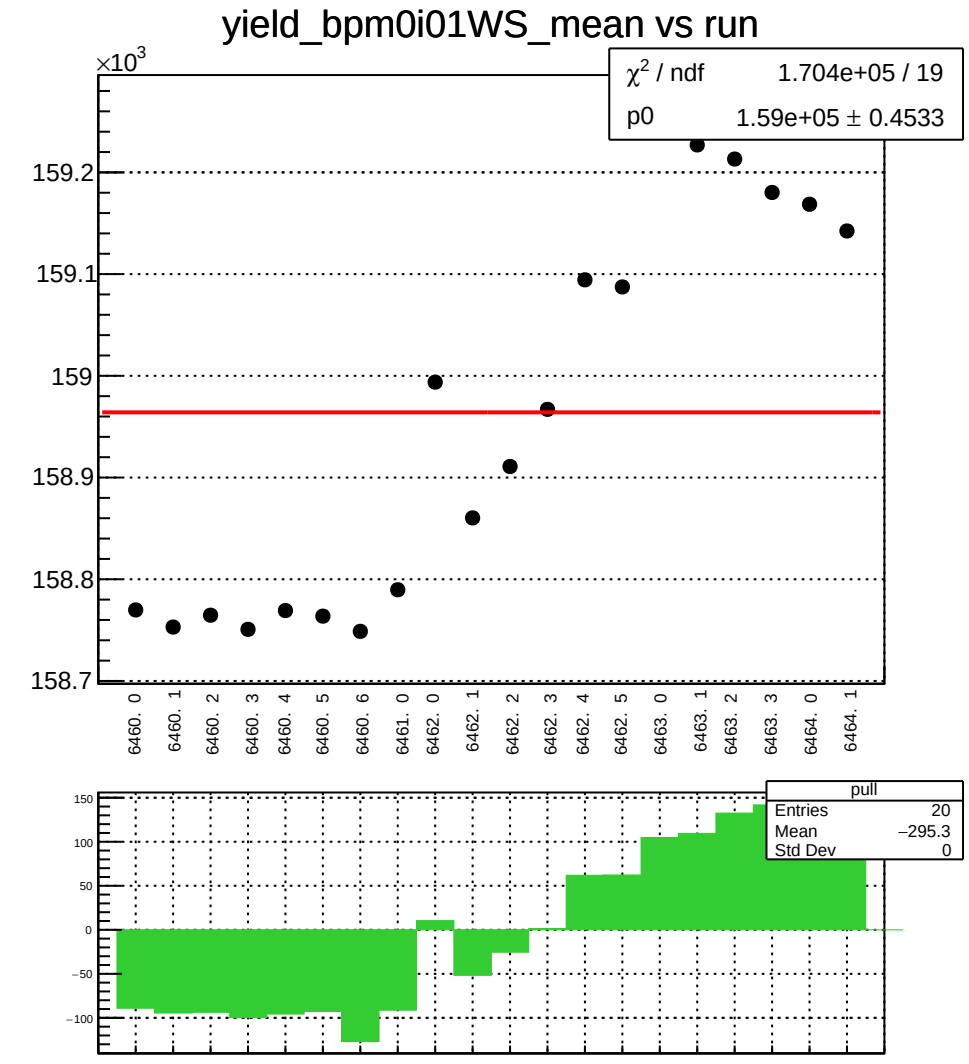

pull1D
Entries 20
Mean 4.26
Std Dev 2.31
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

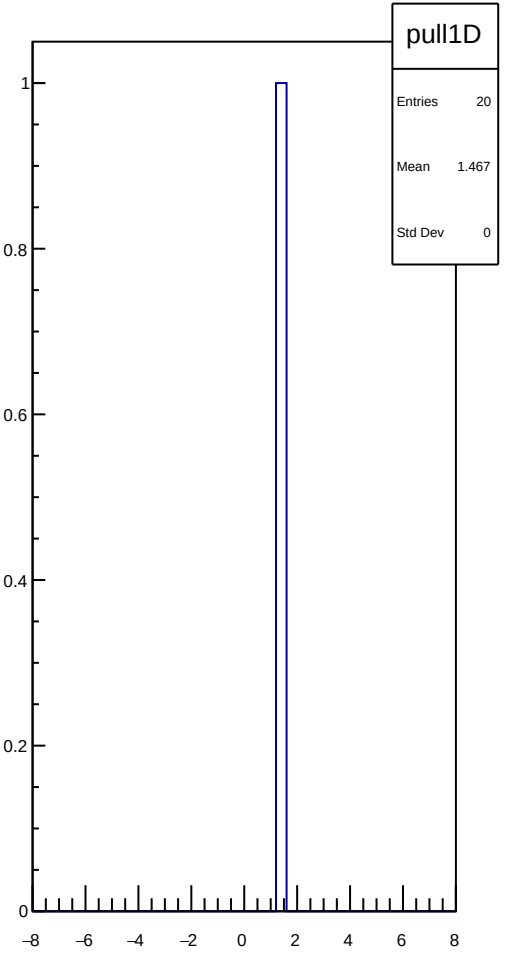

yield_bpm2i01WS_rms vs run
χ² / ndf 1800 / 19
p0 170.7 ± 0.2687
210
200
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

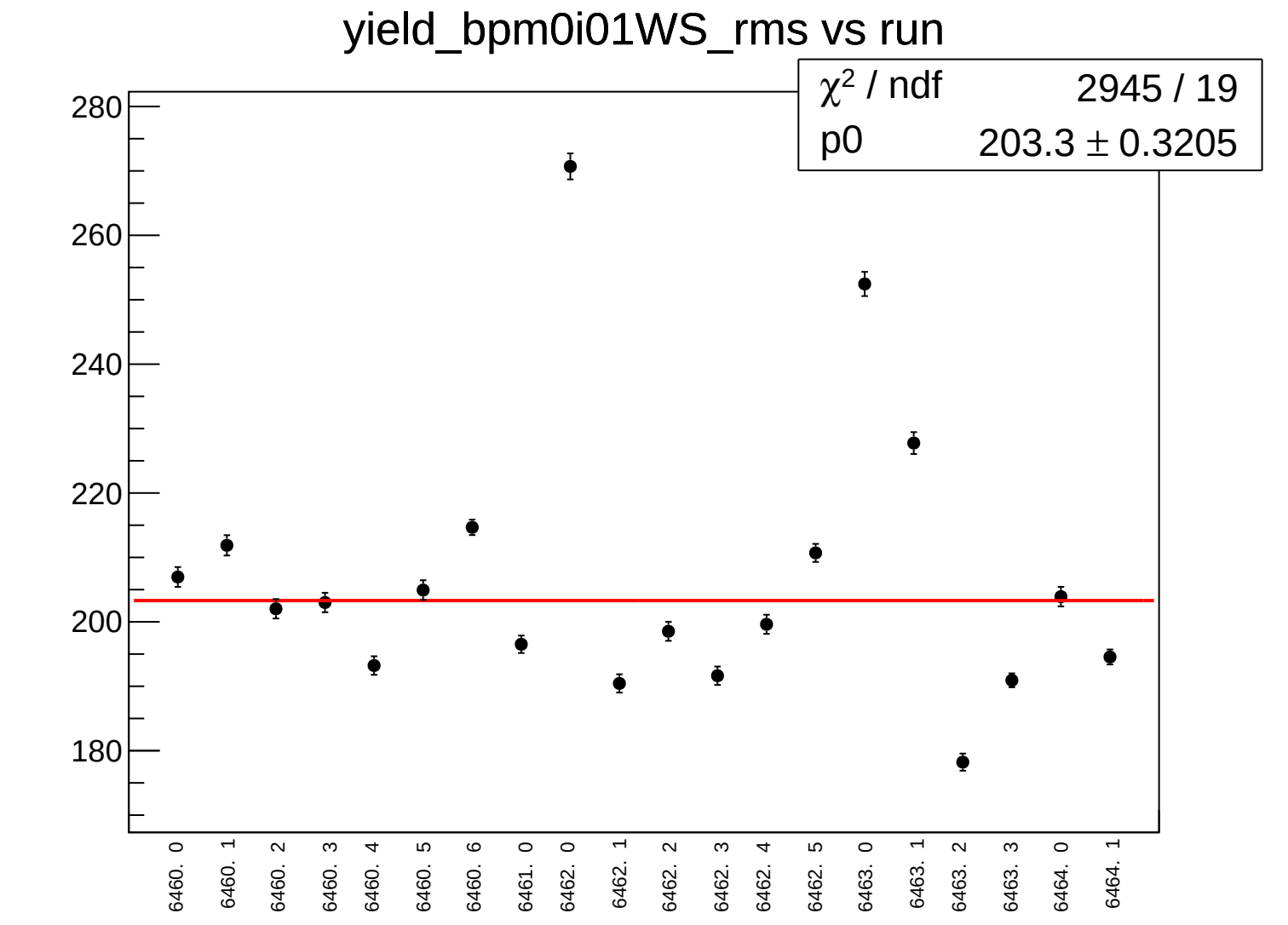

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.633e+04 / 19
p0 1.497e+05 ± 0.4061
149.8
149.75
149.7
149.65
149.6
149.55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1190
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

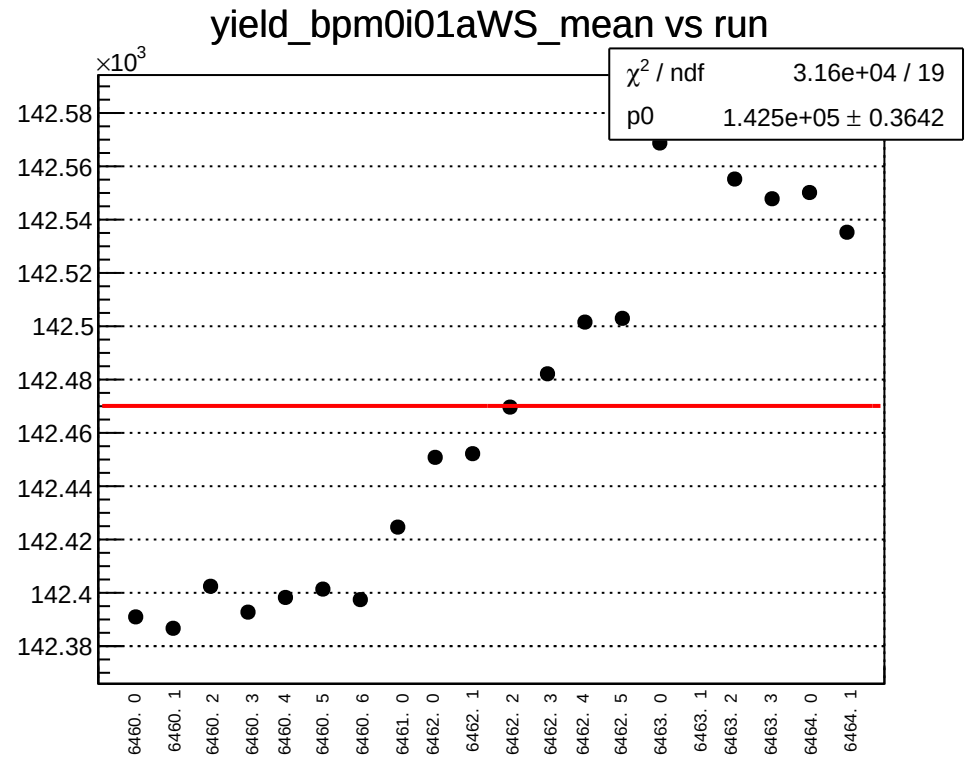

pull1D
Entries 20
Mean −3.199
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

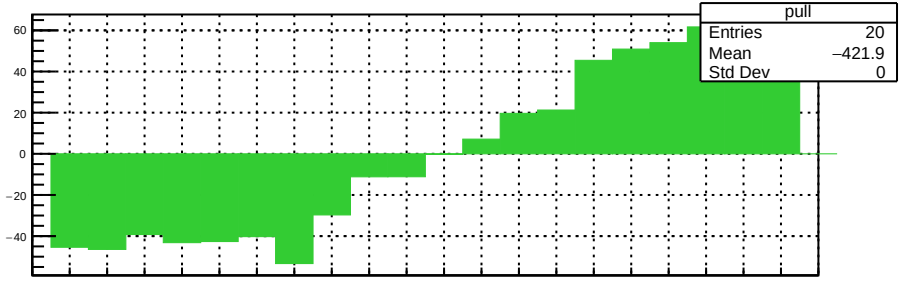

yield_bpm0i07WS_rms vs run
χ² / ndf 4786 / 19
p0 181.7 ± 0.2872
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

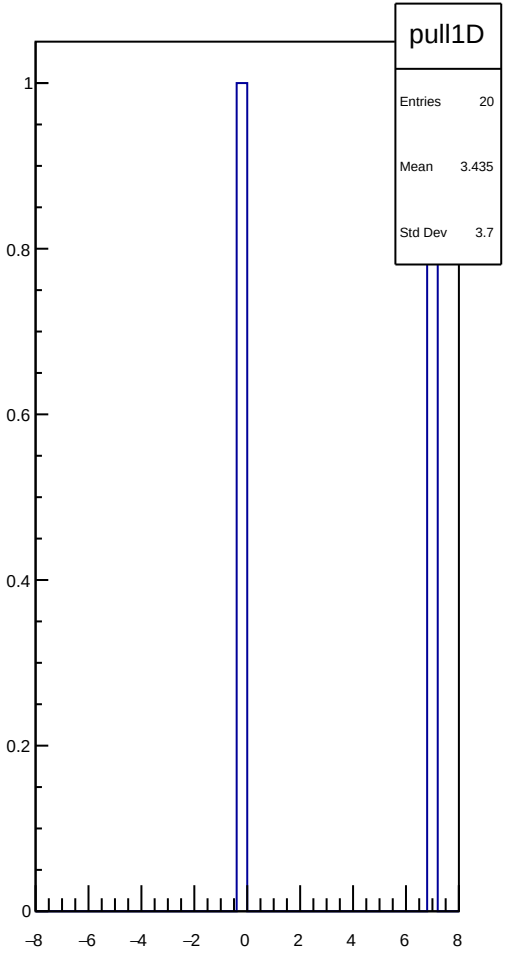

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.704e+05 / 19
p0 1.59e+05 ± 0.4533
159.2
159.1
159
158.9
158.8
158.7
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −295.3
Std Dev 0
150
100
50
0
−50
−100

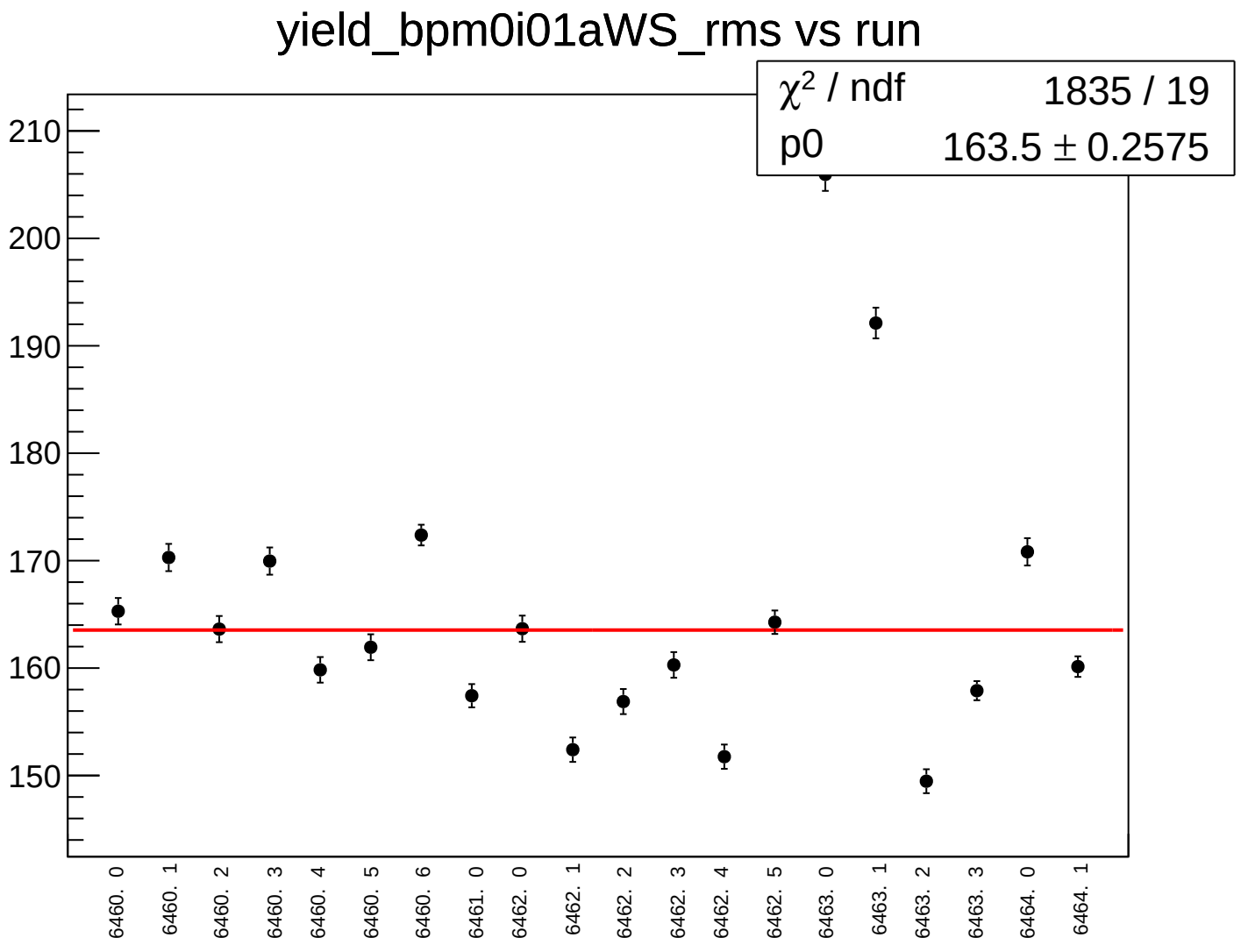

pull1D
Entries 20
Mean 1.467
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

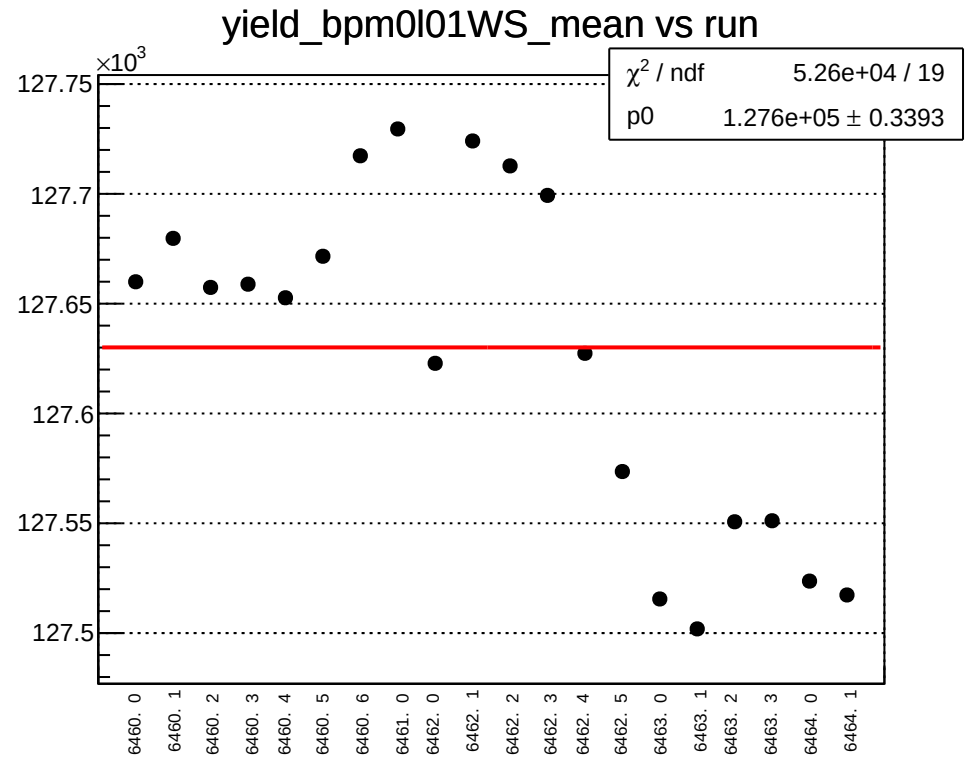

yield_bpm0i01WS_rms vs run
χ² / ndf 2945 / 19
p0 203.3 ± 0.3205
280
260
240
220
200
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

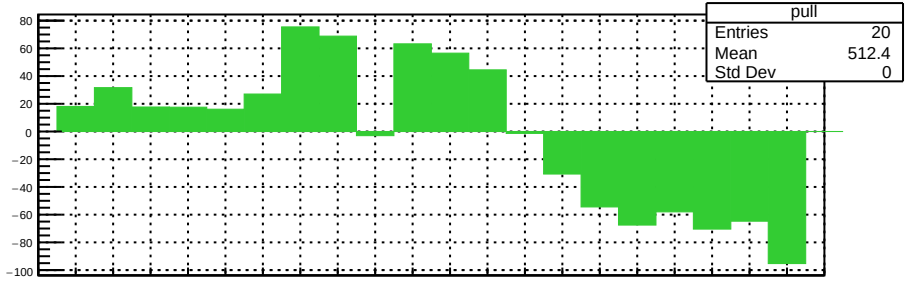

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 3.16e+04 / 19
p0 1.425e+05 ± 0.3642
142.58
142.56
142.54
142.52
142.5
142.48
142.46
142.44
142.42
142.4
142.38
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

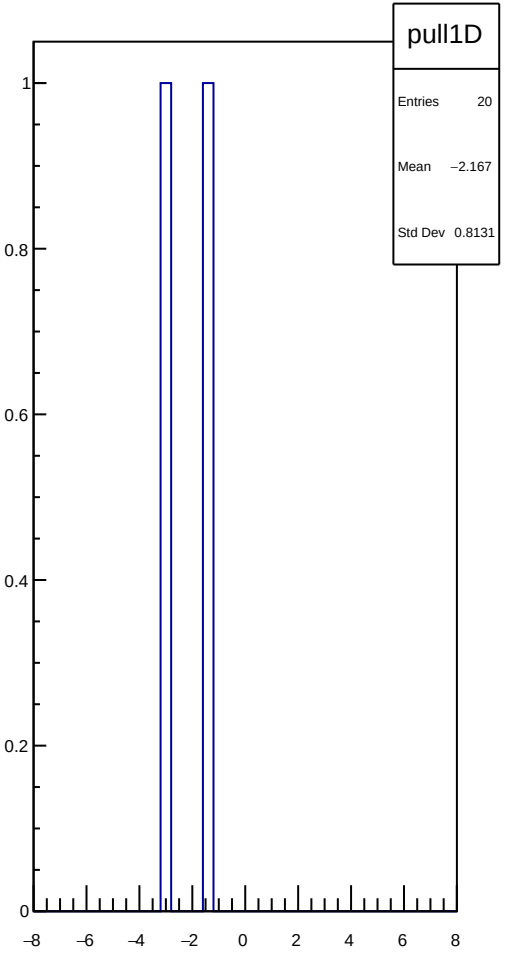

pull
Entries 20
Mean −421.9
Std Dev 0
60
40
20
0
−20
−40

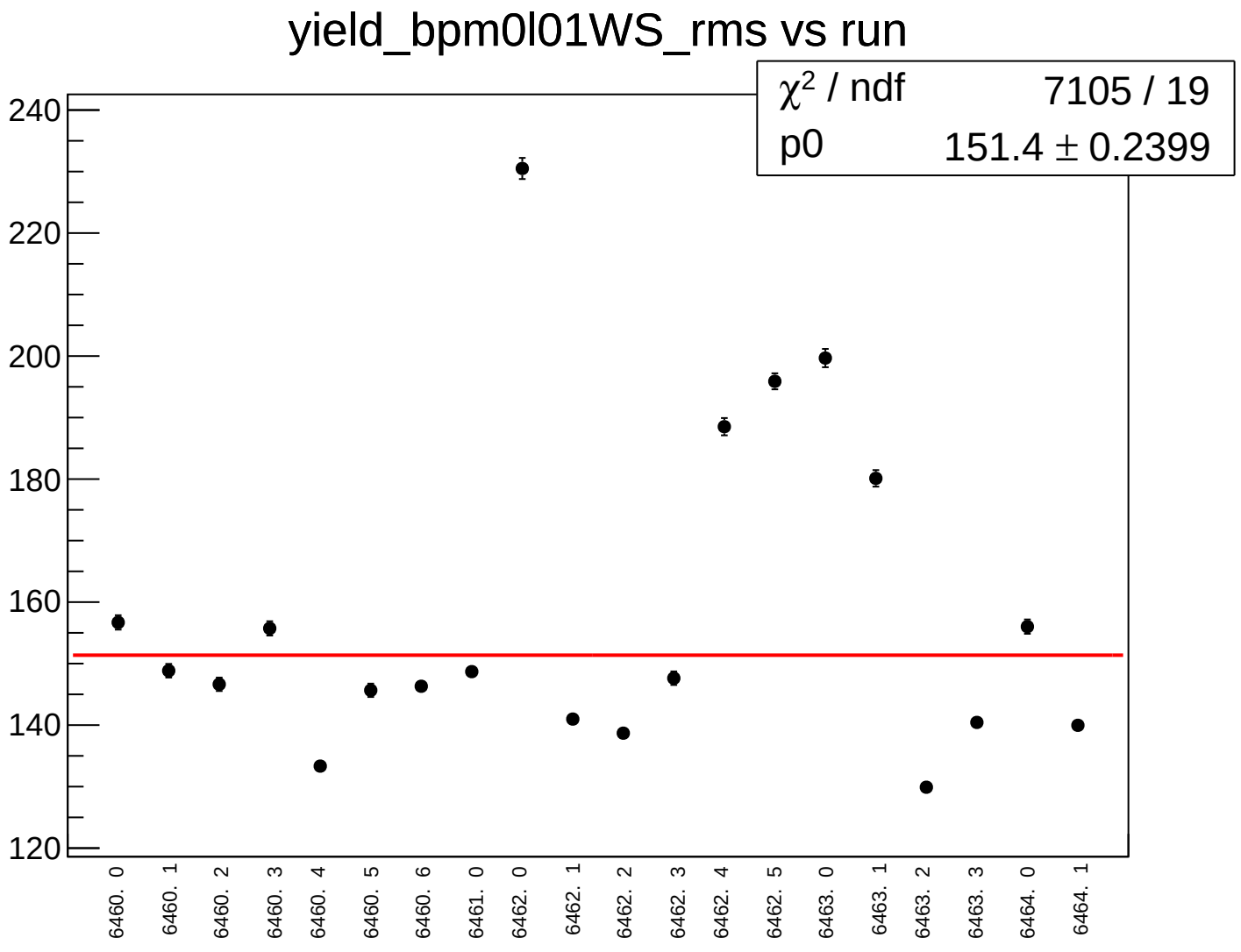

pull1D
Entries 20
Mean 3.435
Std Dev 3.7
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

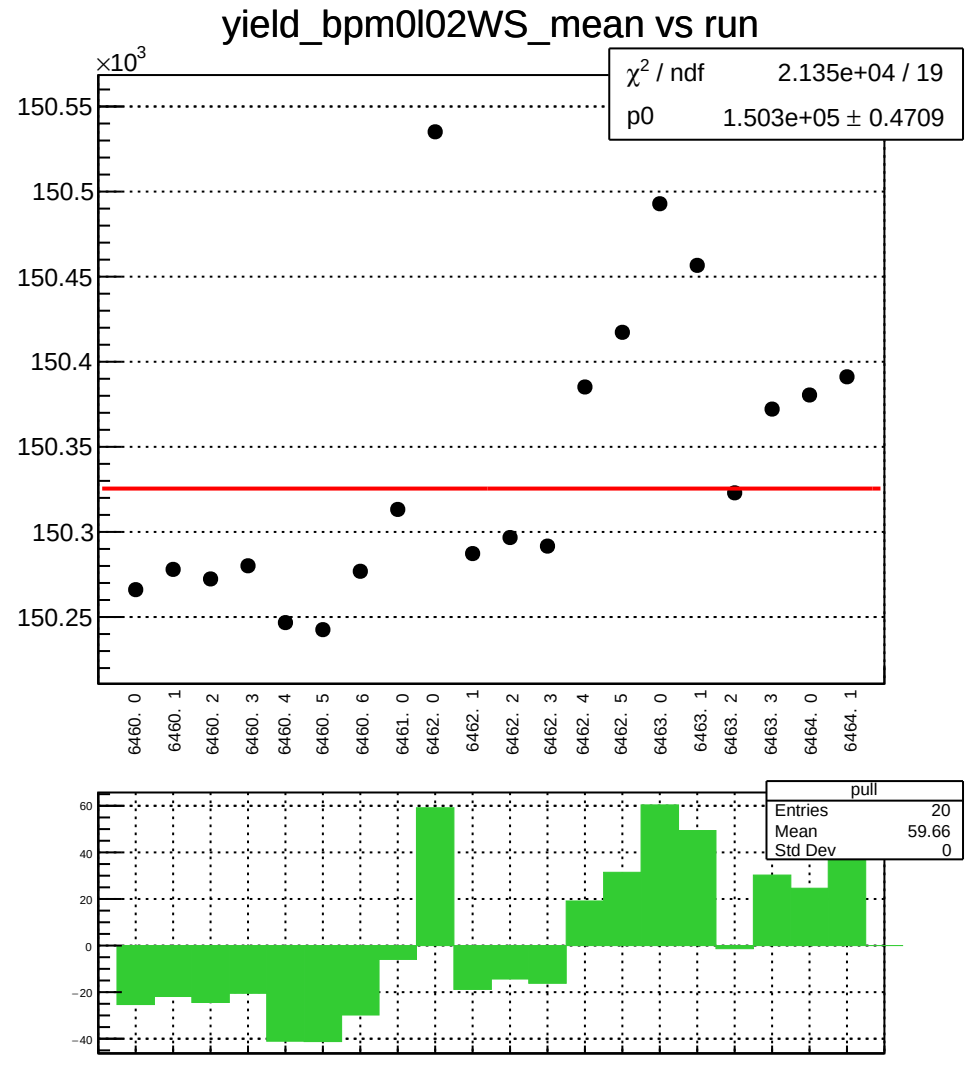

yield_bpm0i01aWS_rms vs run
χ² / ndf 1835 / 19
p0 163.5 ± 0.2575
210
200
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

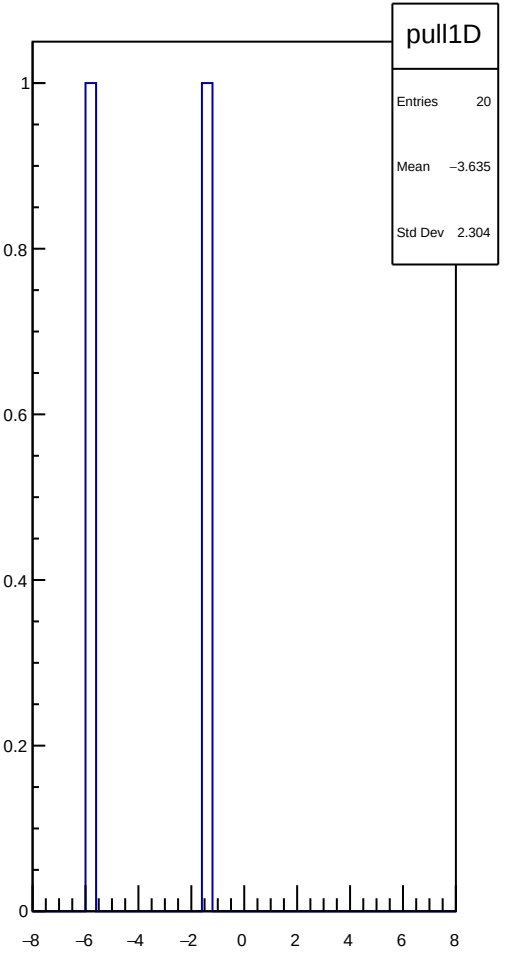

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 5.26e+04 / 19
p0 1.276e+05 ± 0.3393
127.75
127.7
127.65
127.6
127.55
127.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

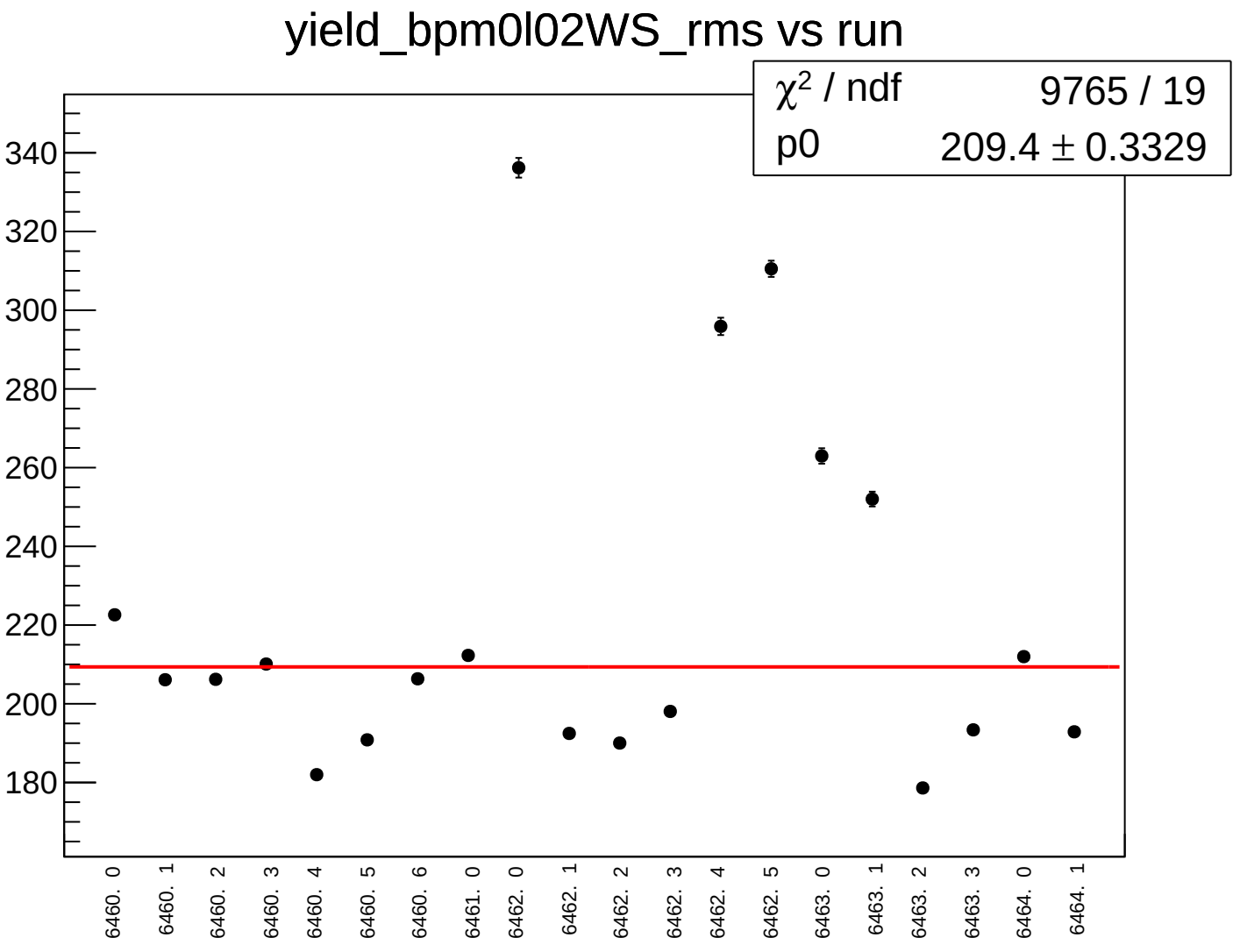

pull
Entries 20
Mean 512.4
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

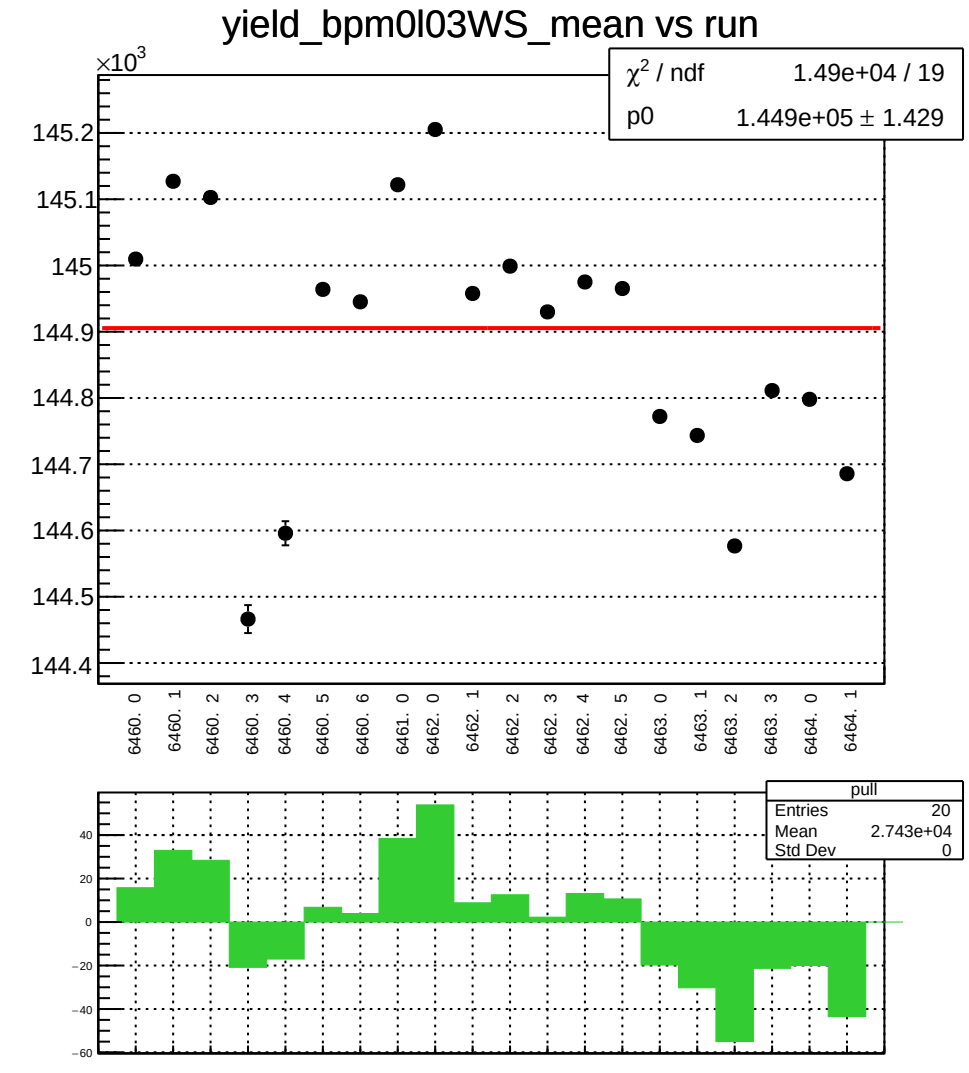

pull1D
Entries 20
Mean −2.167
Std Dev 0.8131
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

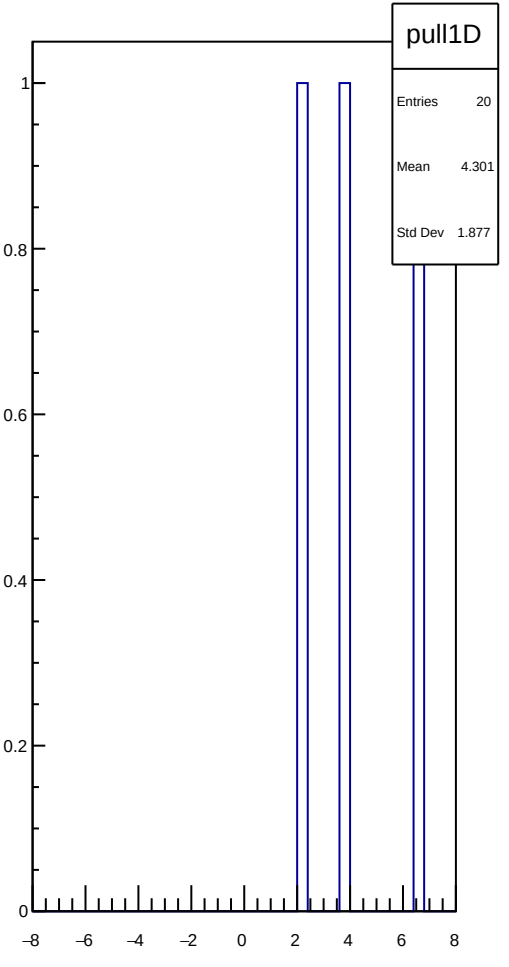

yield_bpm0l01WS_rms vs run
χ² / ndf 7105 / 19
p0 151.4 ± 0.2399
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

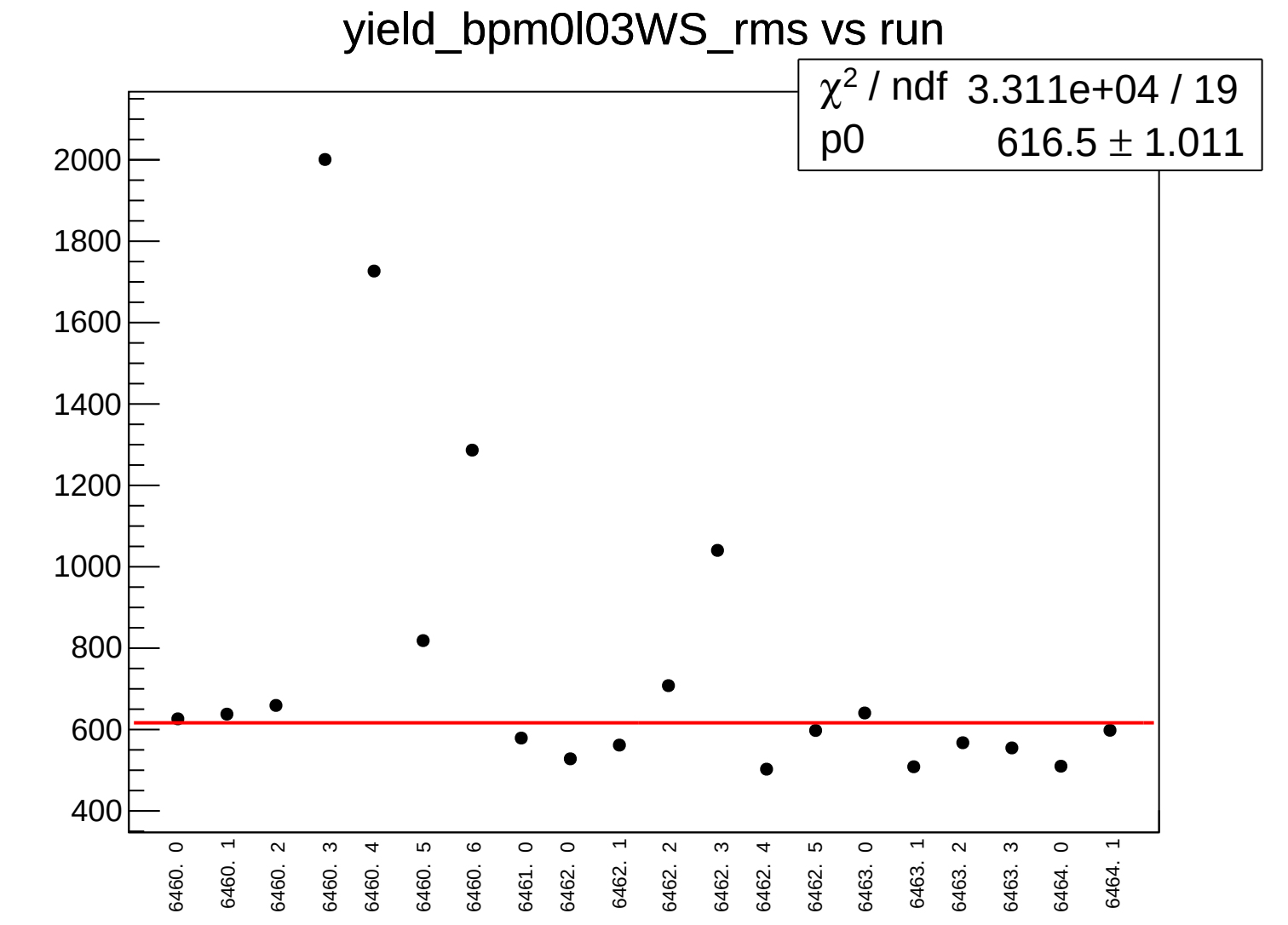

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.135e+04 / 19
p0 1.503e+05 ± 0.4709
150.55
150.5
150.45
150.4
150.35
150.3
150.25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.66
Std Dev 0
60
40
20
0
−20
−40

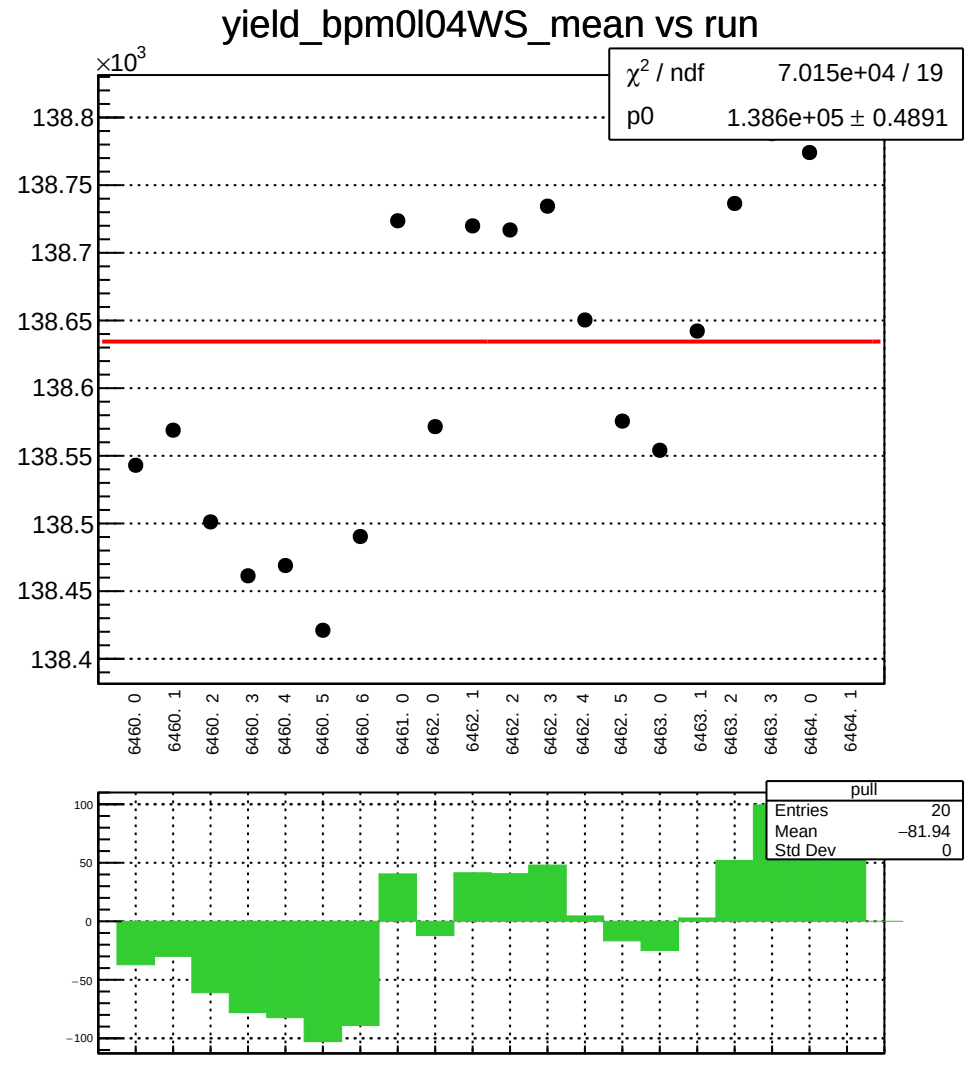

pull1D
Entries 20
Mean −3.635
Std Dev 2.304
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

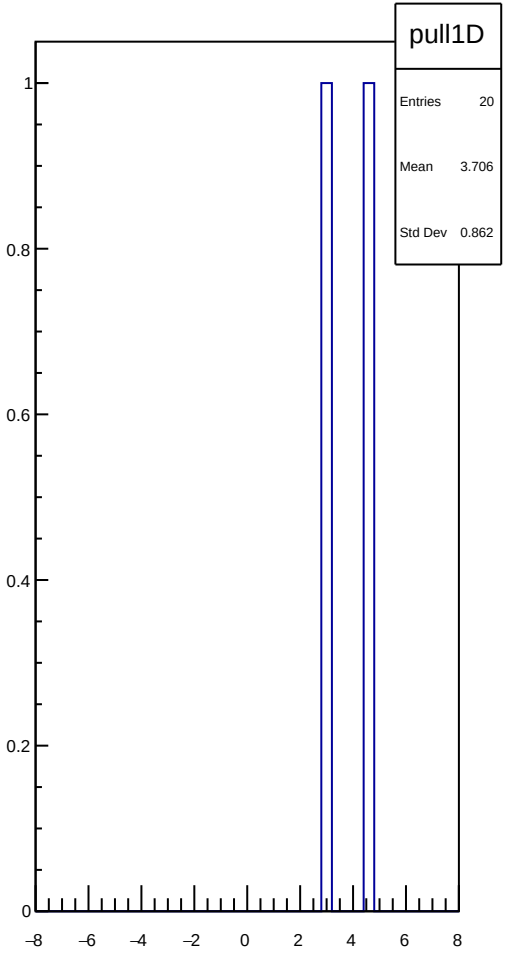

yield_bpm0l02WS_rms vs run
χ² / ndf 9765 / 19
p0 209.4 ± 0.3329
340
320
300
280
260
240
220
200
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

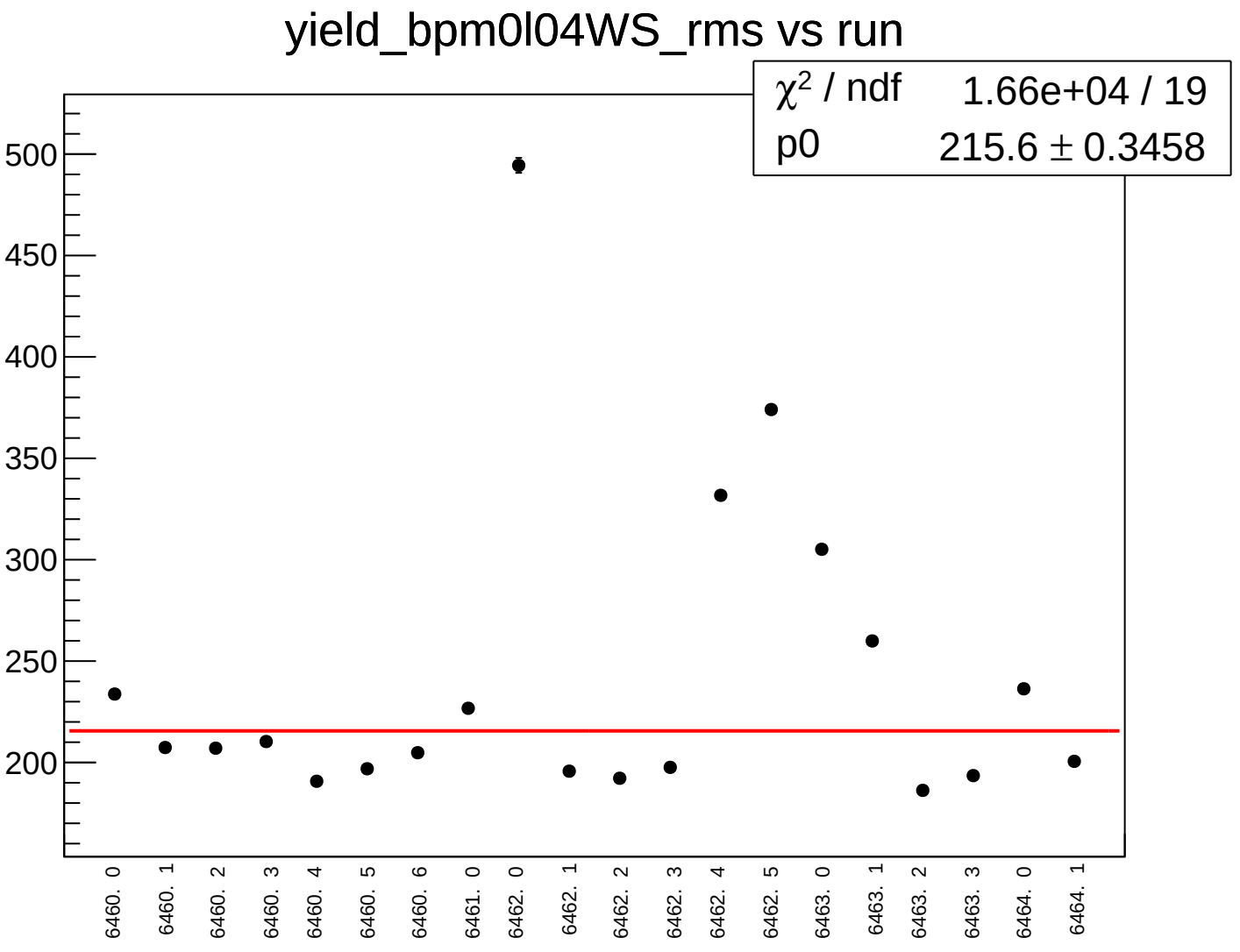

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 1.49e+04 / 19
p0 1.449e+05 ± 1.429
145.2
145.1
145
144.9
144.8
144.7
144.6
144.5
144.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.743e+04
Std Dev 0
40
20
0
−20
−40
−60

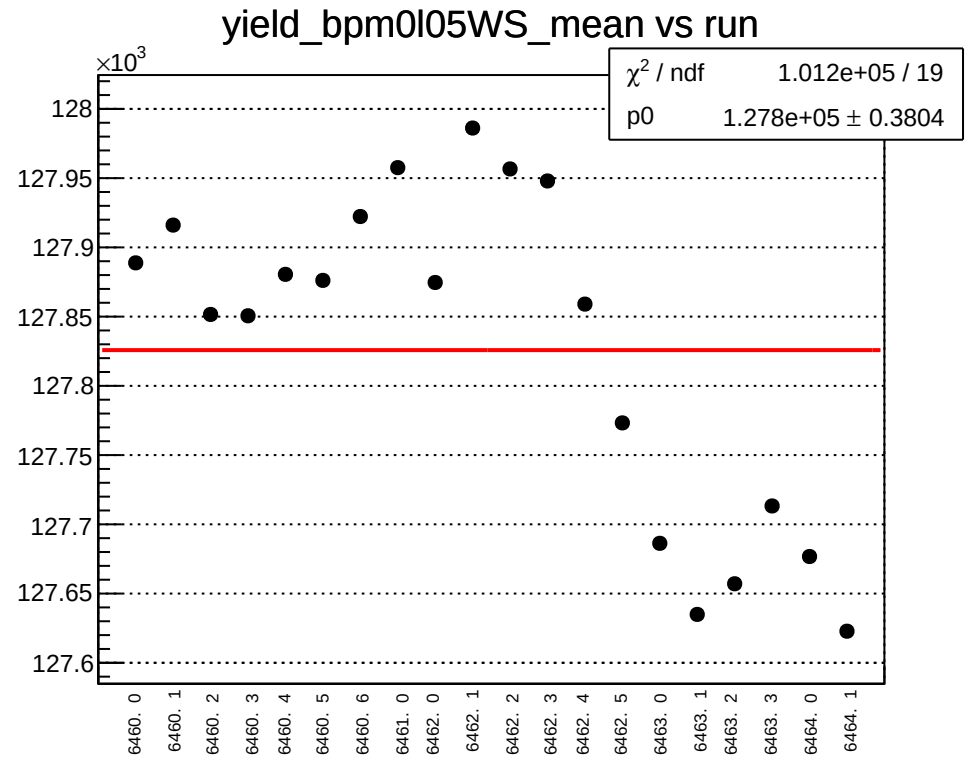

pull1D
Entries 20
Mean 4.301
Std Dev 1.877
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

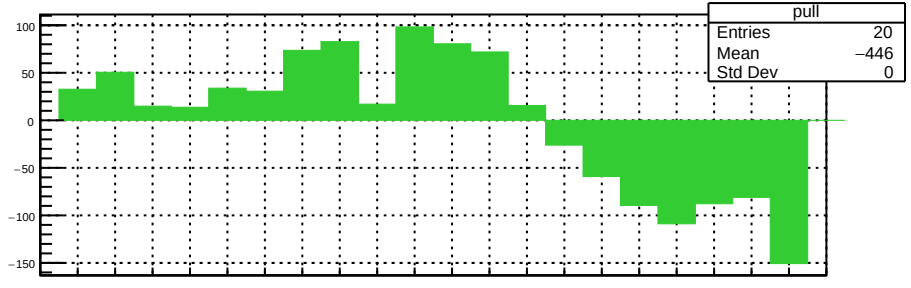

yield_bpm0l03WS_rms vs run
χ² / ndf 3.311e+04 / 19
p0 616.5 ± 1.011
2000
1800
1600
1400
1200
1000
800
600
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

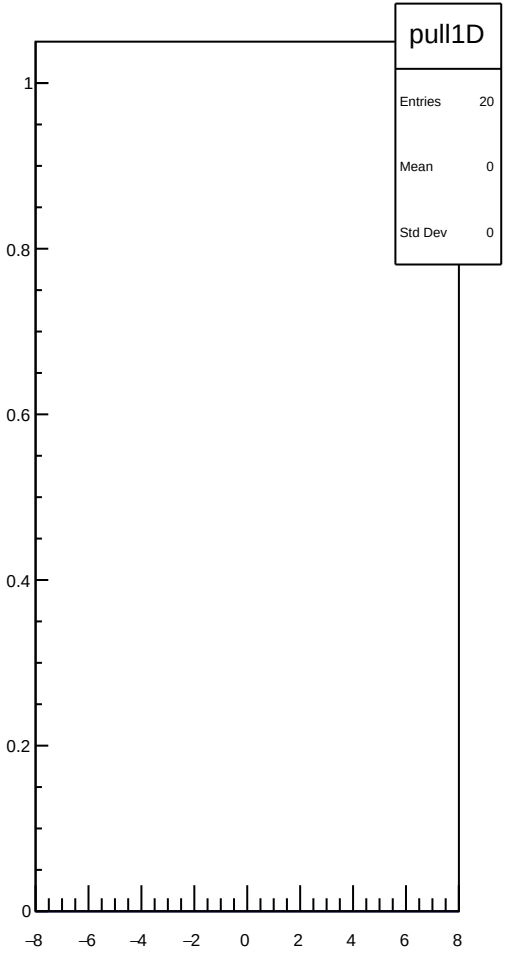

yield_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 7.015e+04 / 19
p0 1.386e+05 ± 0.4891
138.8
138.75
138.7
138.65
138.6
138.55
138.5
138.45
138.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −81.94
Std Dev 0
100
50
0
−50
−100

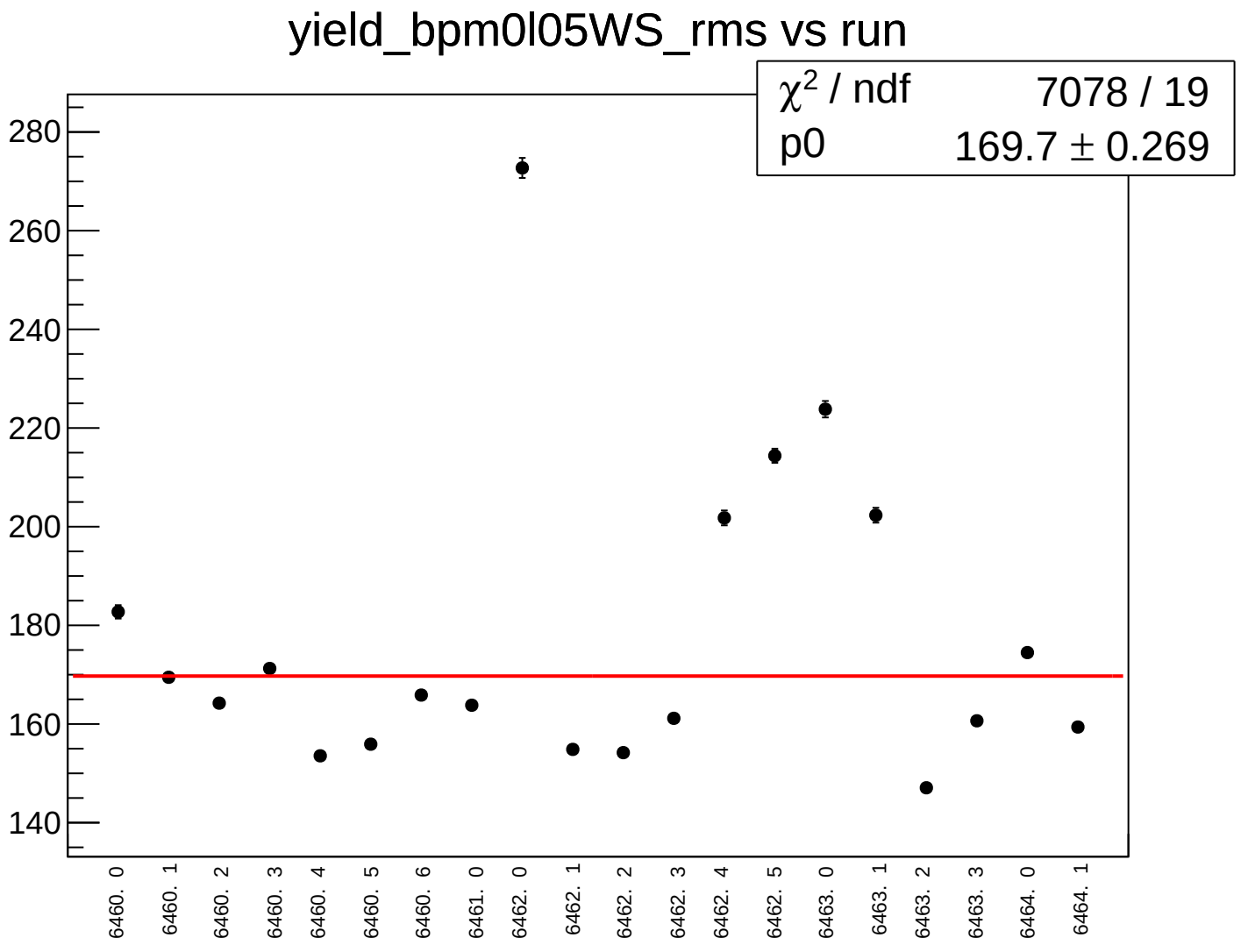

pull1D
Entries 20
Mean 3.706
Std Dev 0.862
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

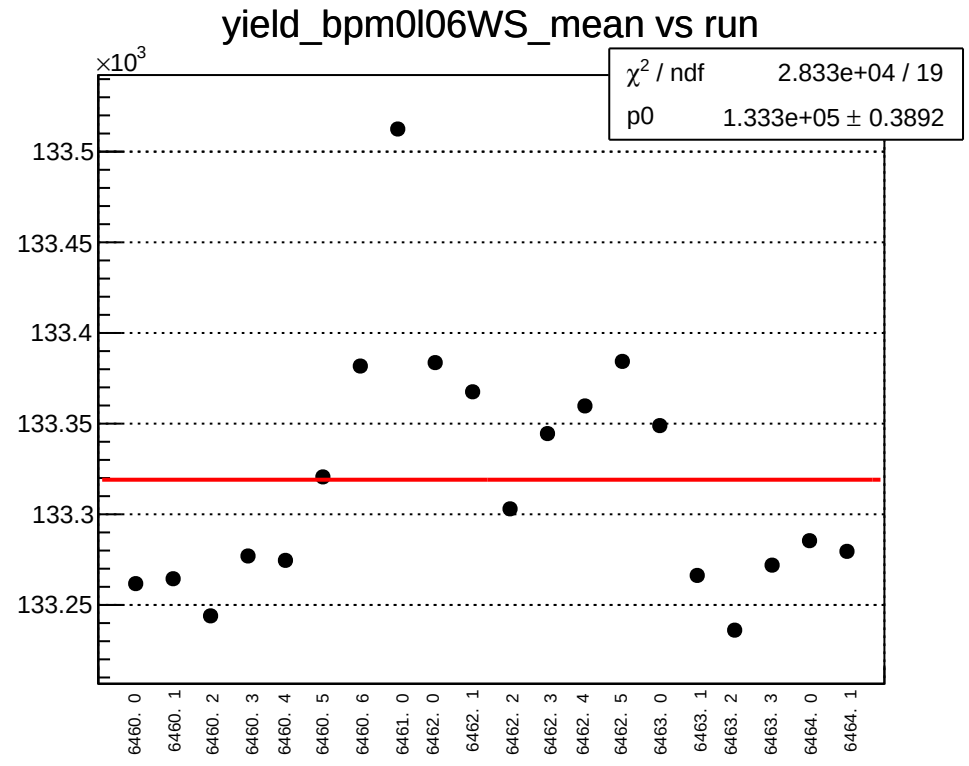

yield_bpm0l04WS_rms vs run
χ² / ndf 1.66e+04 / 19
p0 215.6 ± 0.3458
500
450
400
350
300
250
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

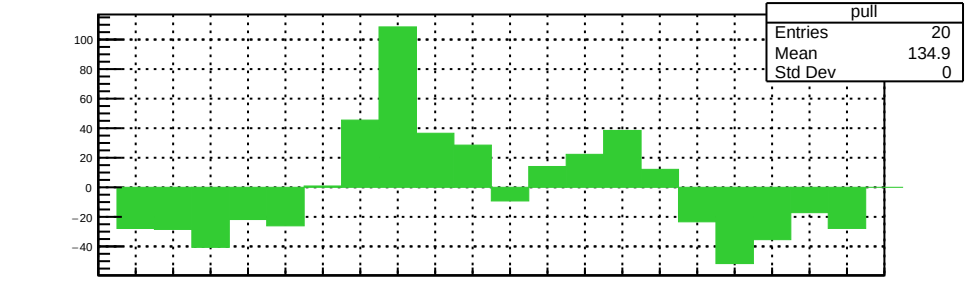

yield_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 1.012e+05 / 19
p0 1.278e+05 ± 0.3804
128
127.95
127.9
127.85
127.8
127.75
127.7
127.65
127.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

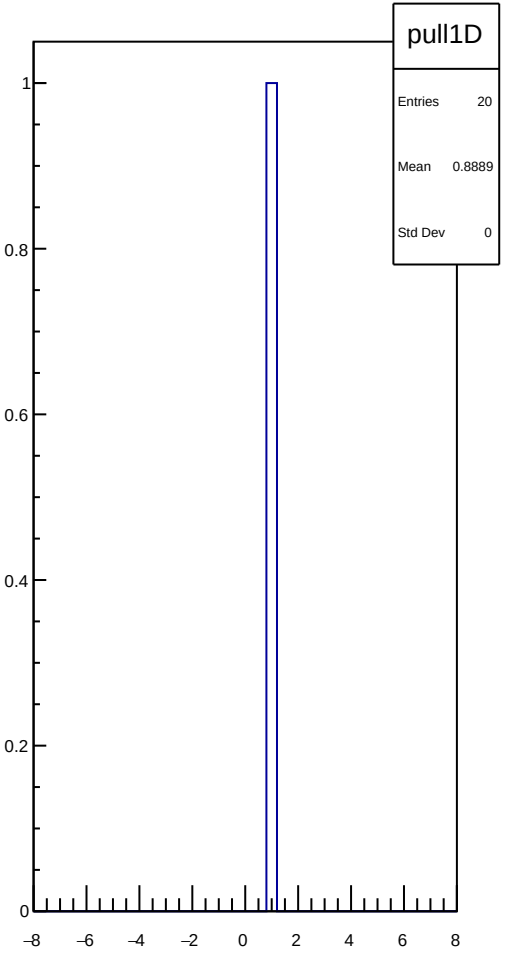

pull
Entries 20
Mean −446
Std Dev 0
100
50
0
−50
−100
−150

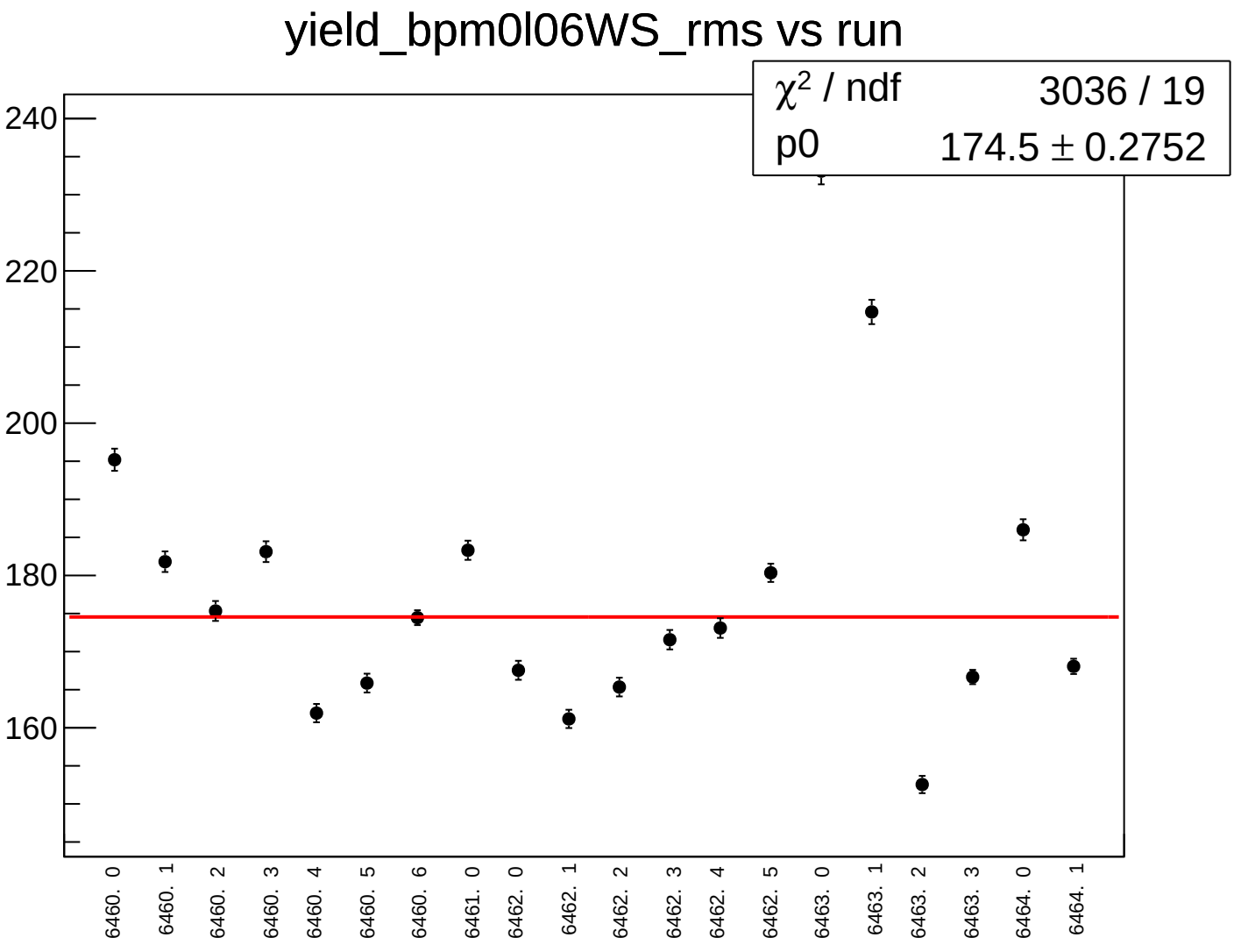

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

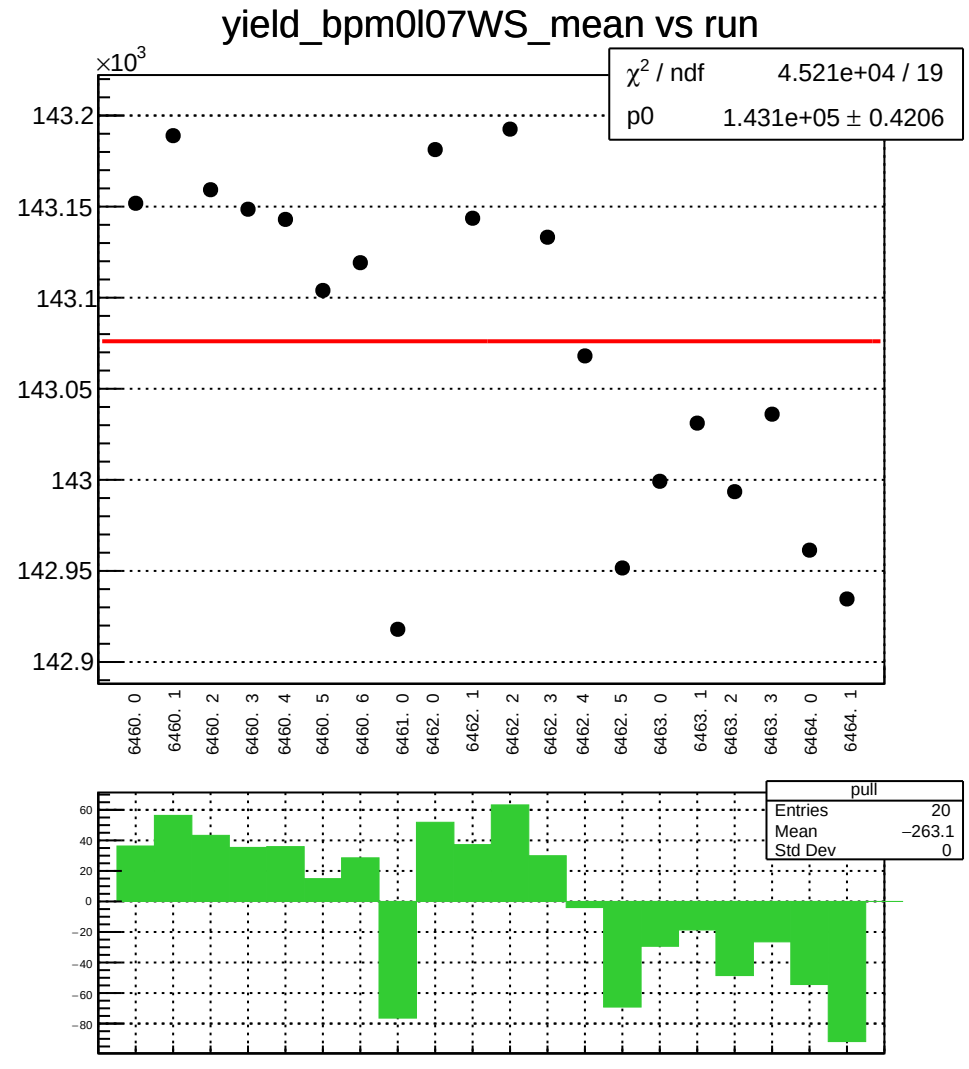

yield_bpm0l05WS_rms vs run
χ² / ndf 7078 / 19
p0 169.7 ± 0.269
280
260
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

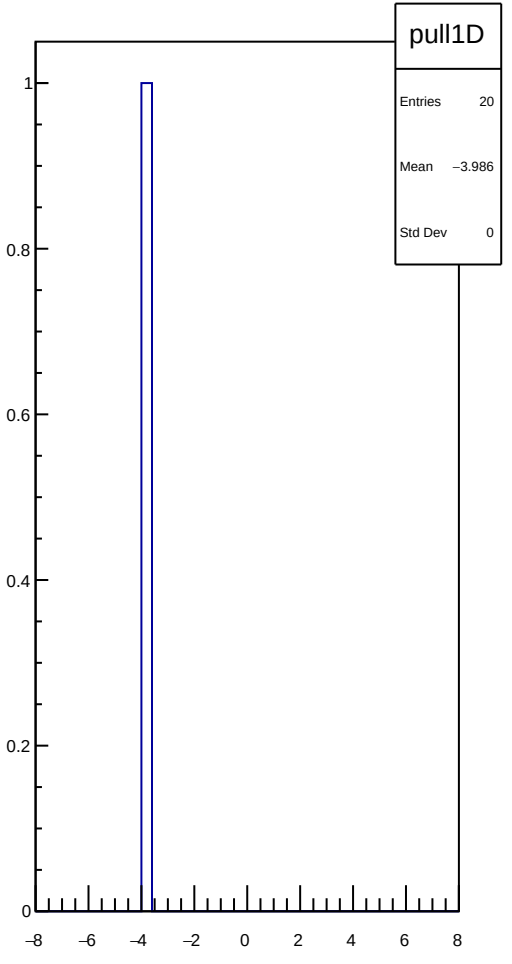

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 2.833e+04 / 19
p0 1.333e+05 ± 0.3892
133.5
133.45
133.4
133.35
133.3
133.25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

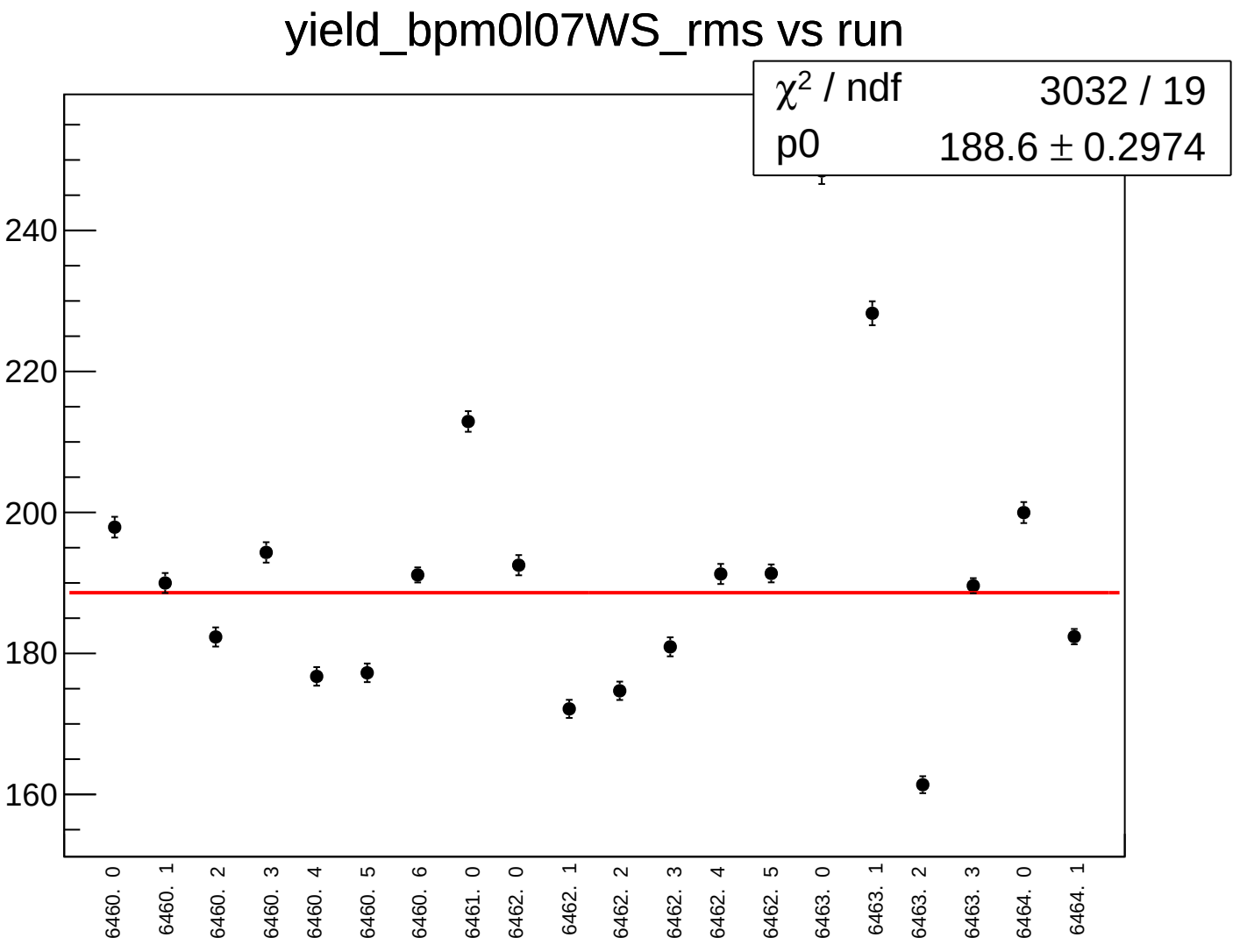

pull
Entries 20
Mean 134.9
Std Dev 0
100
80
60
40
20
0
−20
−40

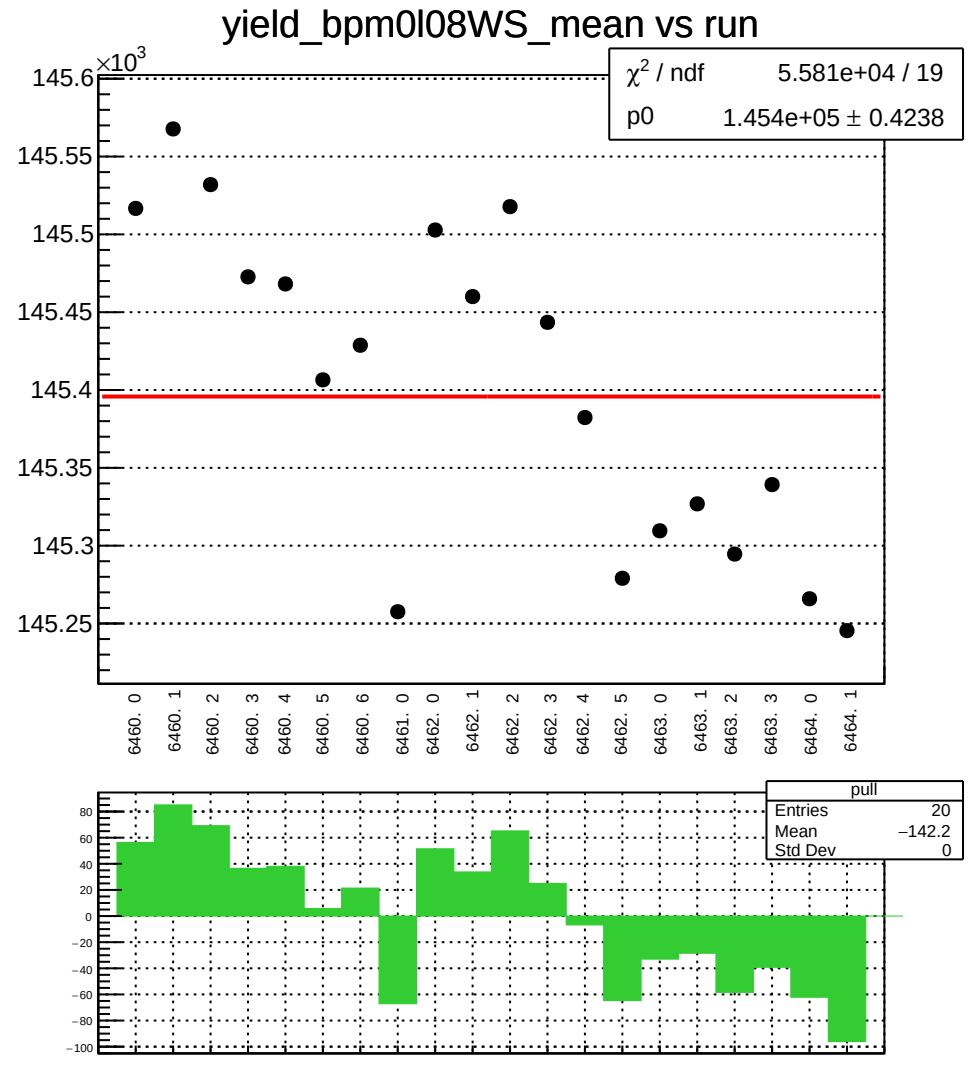

pull1D
Entries 20
Mean 0.8889
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

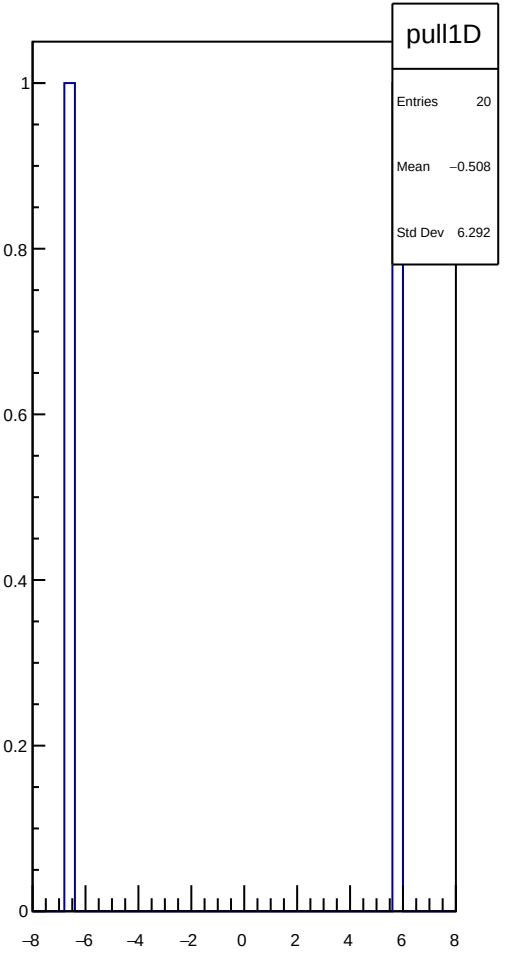

yield_bpm0l06WS_rms vs run
χ² / ndf 3036 / 19
p0 174.5 ± 0.2752
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

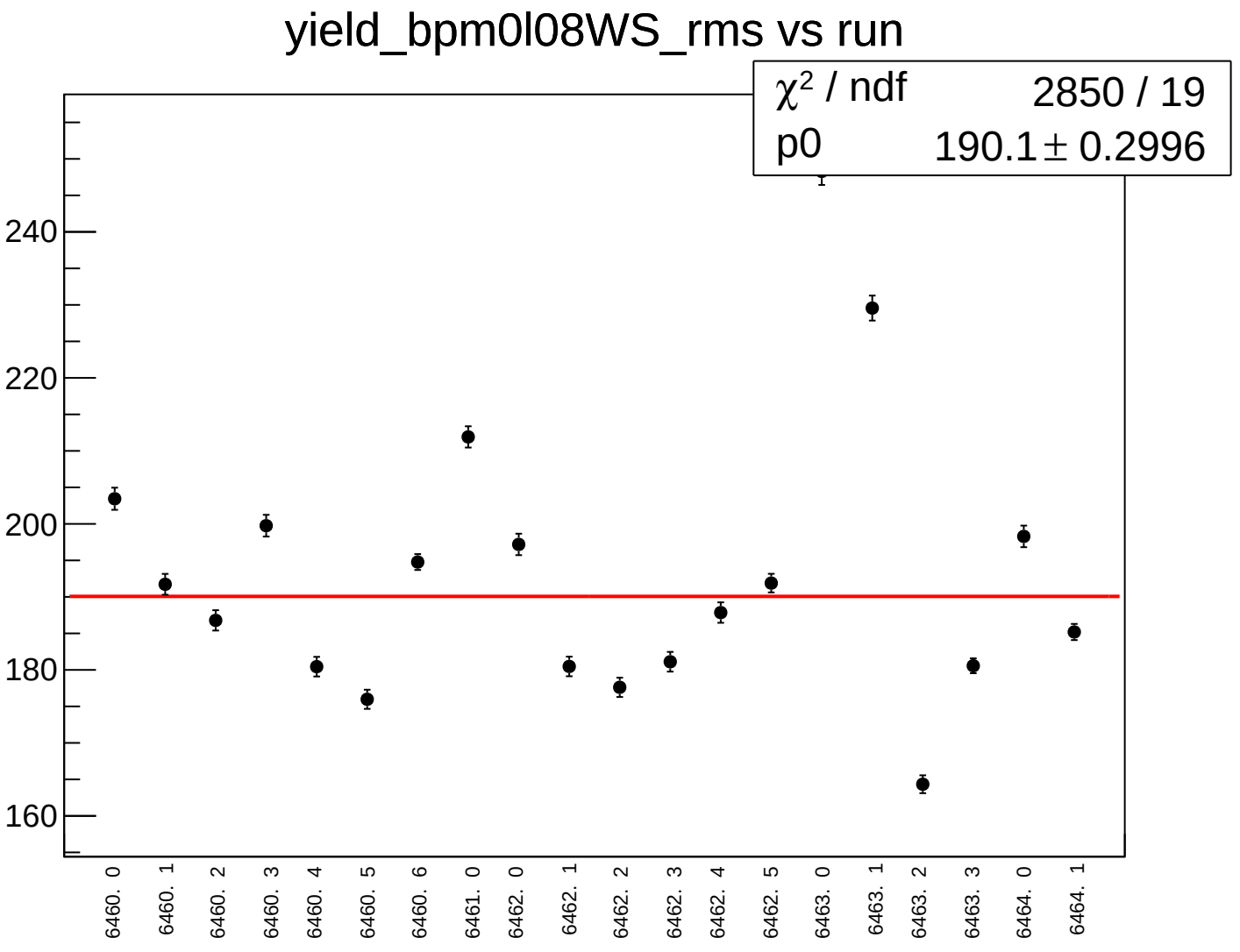

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 4.521e+04 / 19
p0 1.431e+05 ± 0.4206
143.2
143.15
143.1
143.05
143
142.95
142.9
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −263.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80

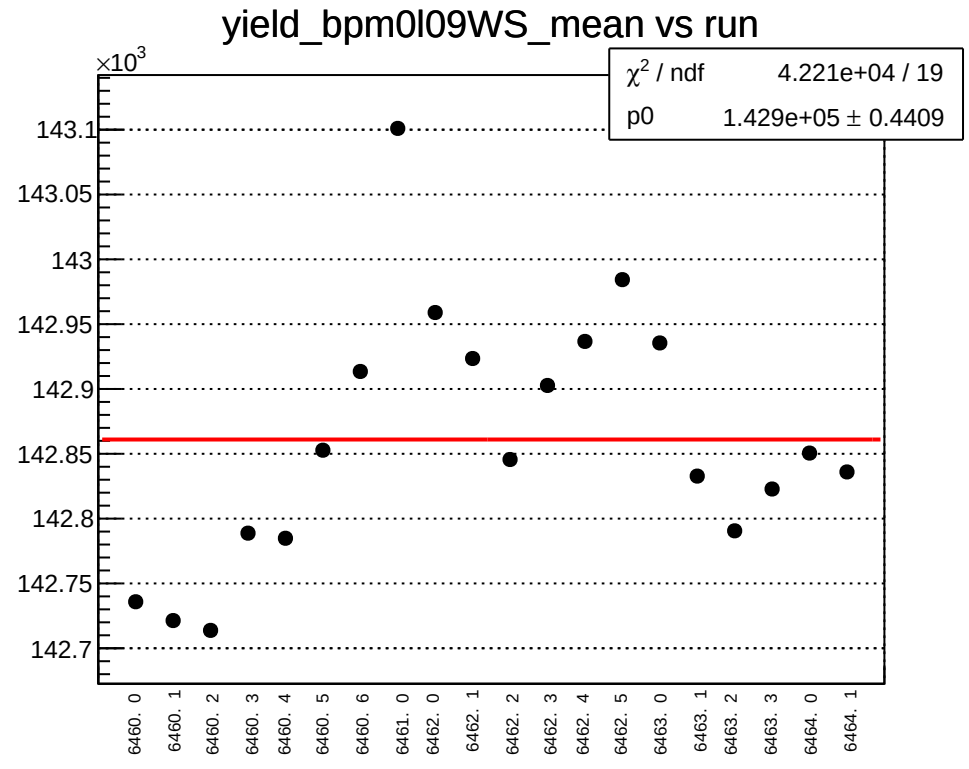

pull1D
Entries 20
Mean −3.986
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

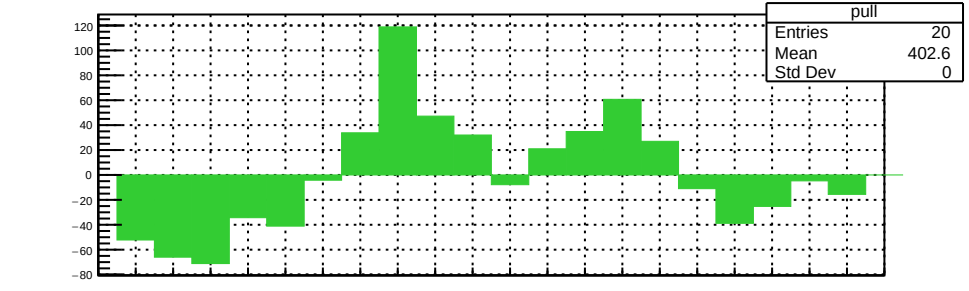

yield_bpm0l07WS_rms vs run
χ² / ndf 3032 / 19
p0 188.6 ± 0.2974
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

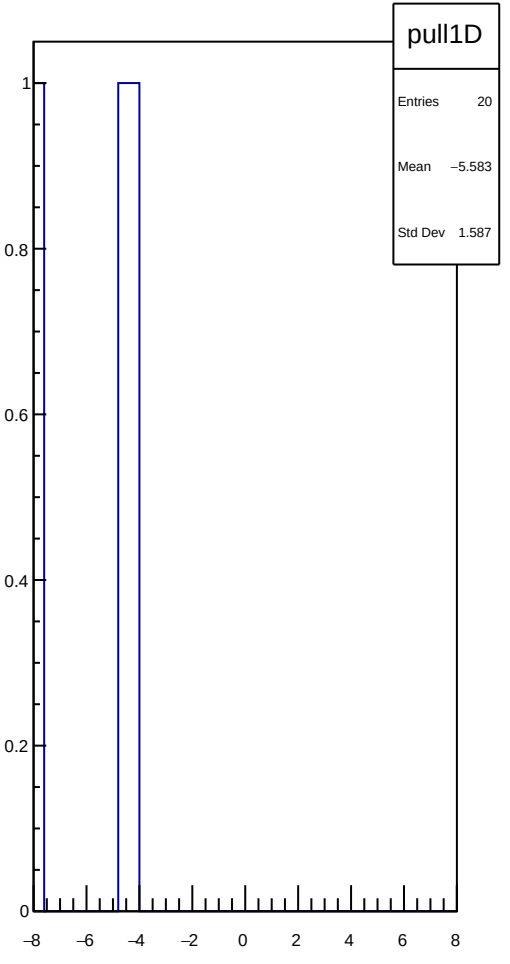

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 5.581e+04 / 19
p0 1.454e+05 ± 0.4238
145.6
145.55
145.5
145.45
145.4
145.35
145.3
145.25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −142.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

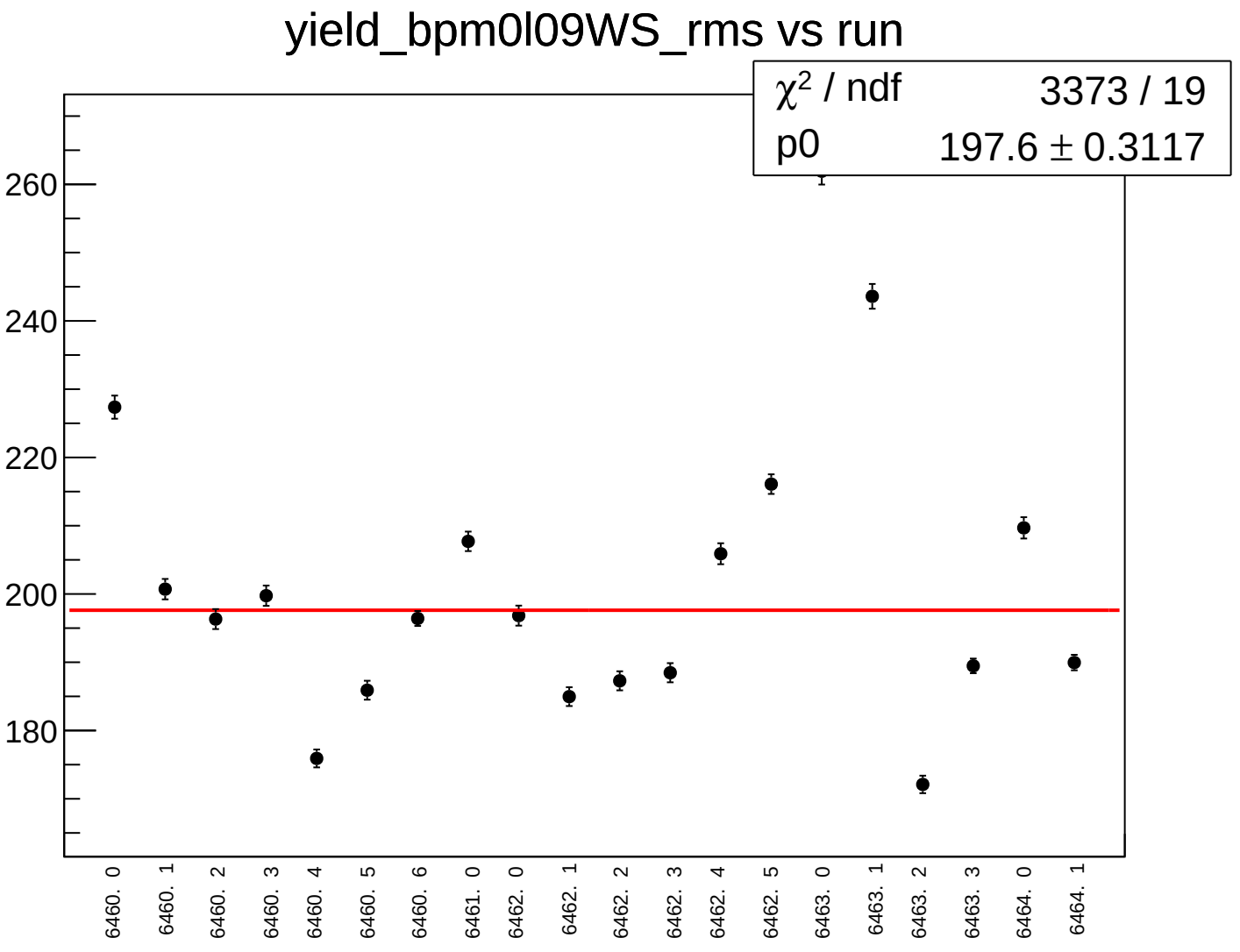

pull1D
Entries 20
Mean −0.508
Std Dev 6.292
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

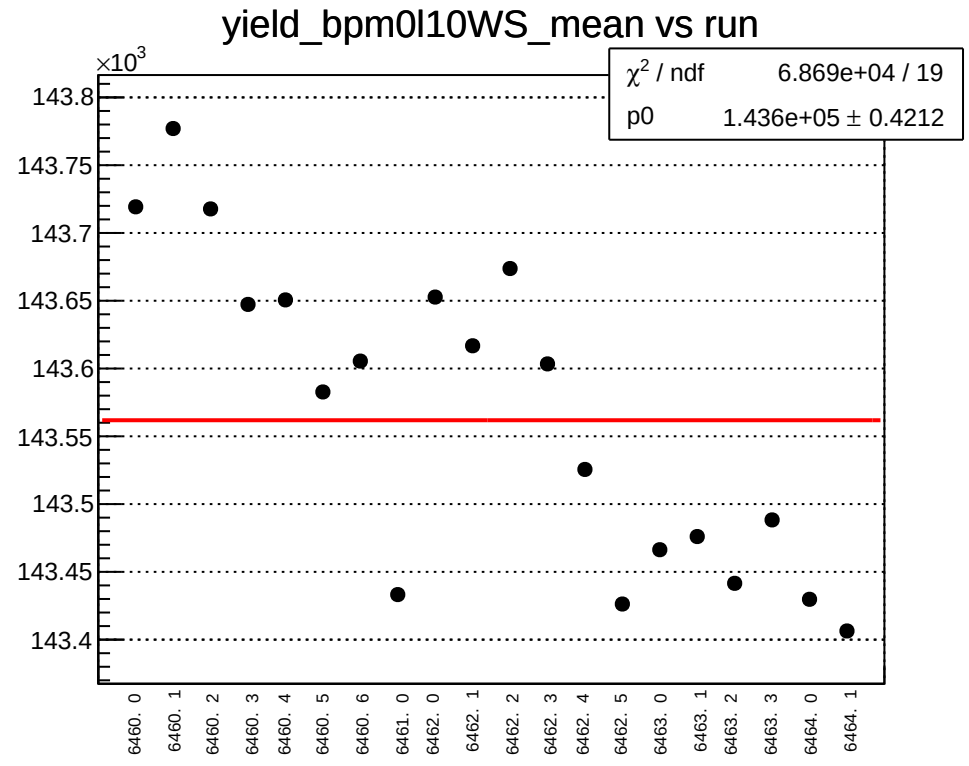

yield_bpm0l08WS_rms vs run
χ² / ndf 2850 / 19
p0 190.1 ± 0.2996
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

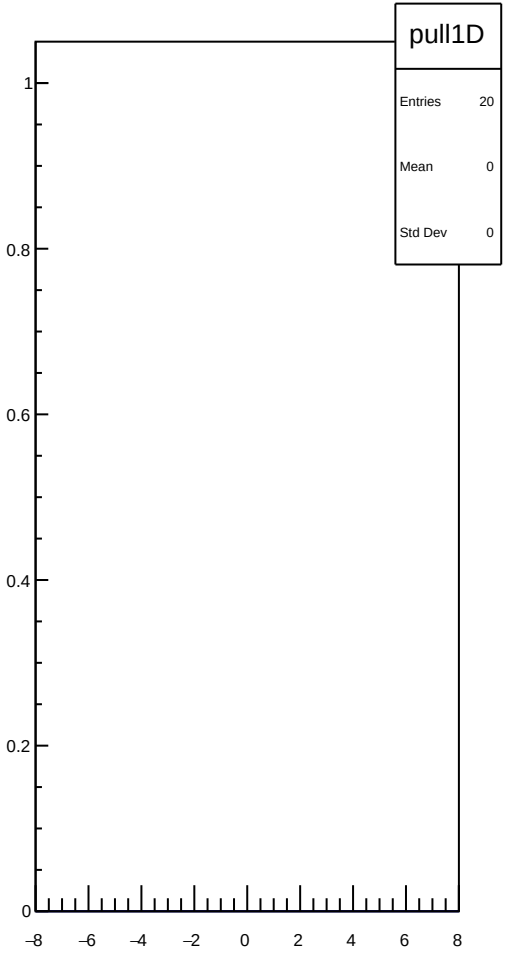

yield_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 4.221e+04 / 19
p0 1.429e+05 ± 0.4409
143.1
143.05
143
142.95
142.9
142.85
142.8
142.75
142.7
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

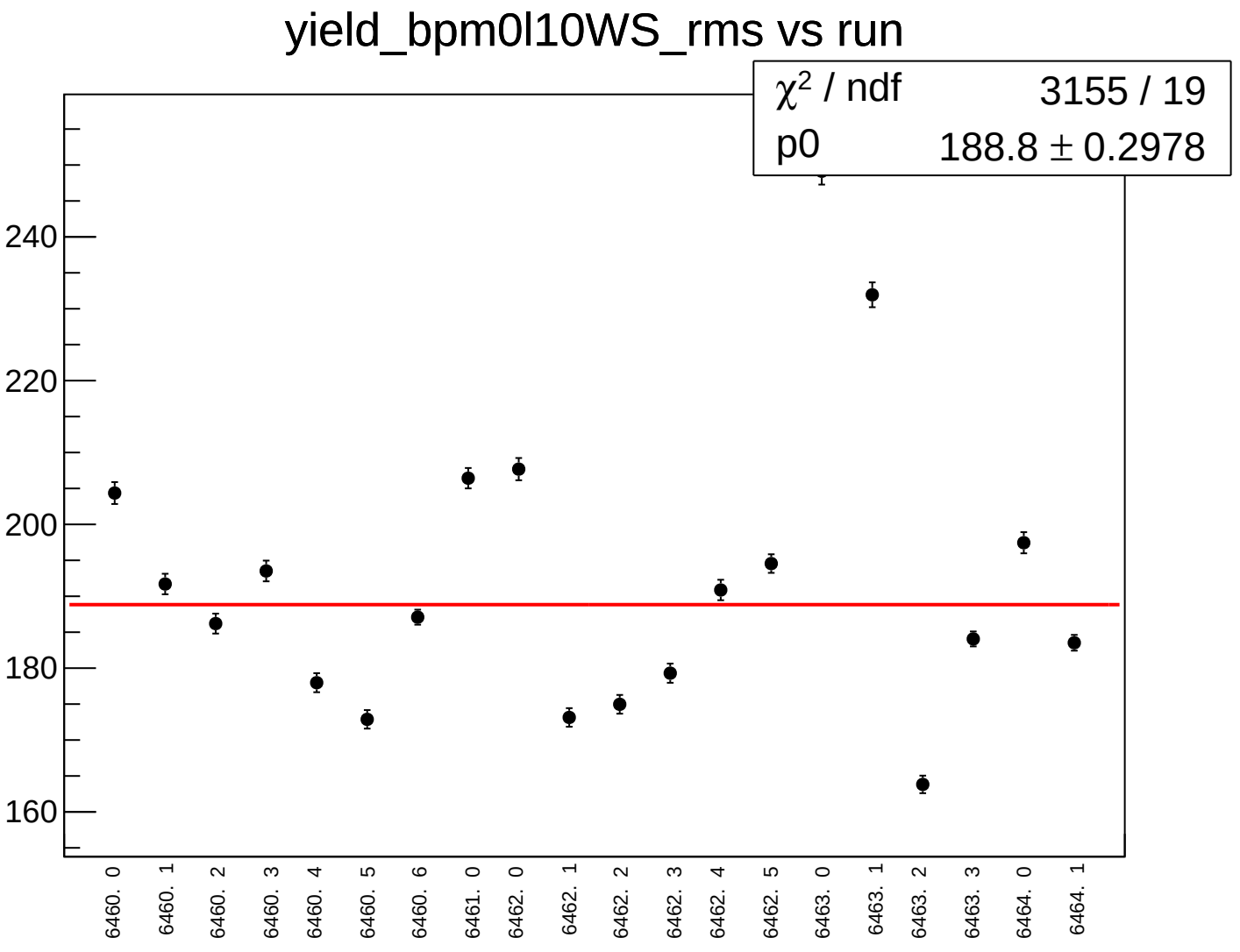

pull
Entries 20
Mean 402.6
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

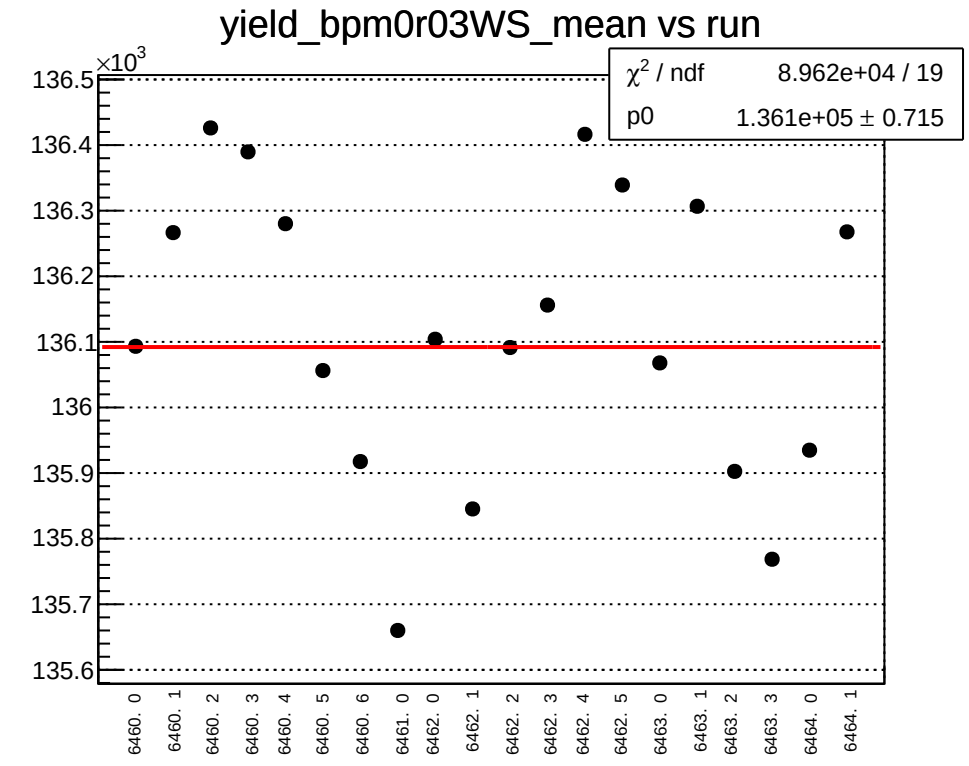

pull1D
Entries 20
Mean −5.583
Std Dev 1.587
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

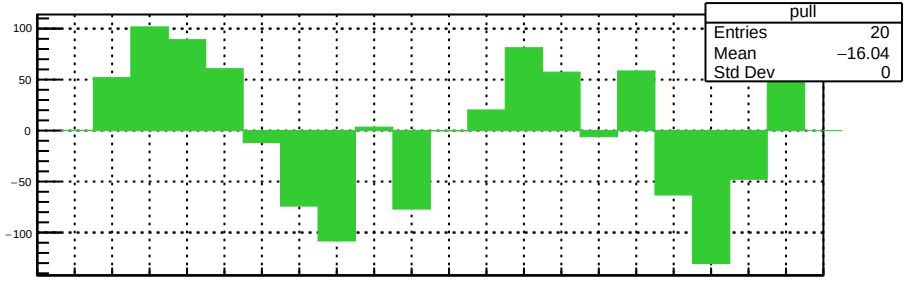

yield_bpm0l09WS_rms vs run
χ² / ndf 3373 / 19
p0 197.6 ± 0.3117
260
240
220
200
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

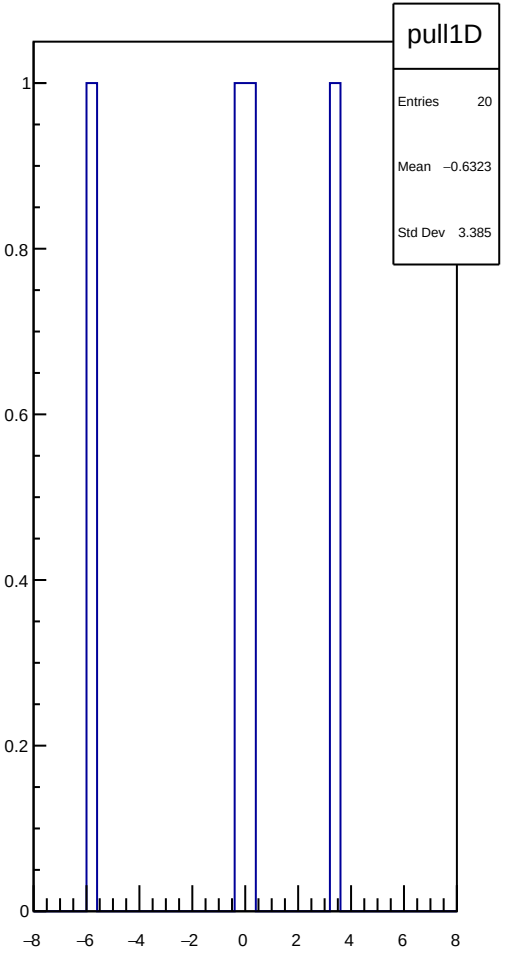

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 6.869e+04 / 19
p0 1.436e+05 ± 0.4212
143.8
143.75
143.7
143.65
143.6
143.55
143.5
143.45
143.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −166.3
Std Dev 0
100
50
0
−50
−100

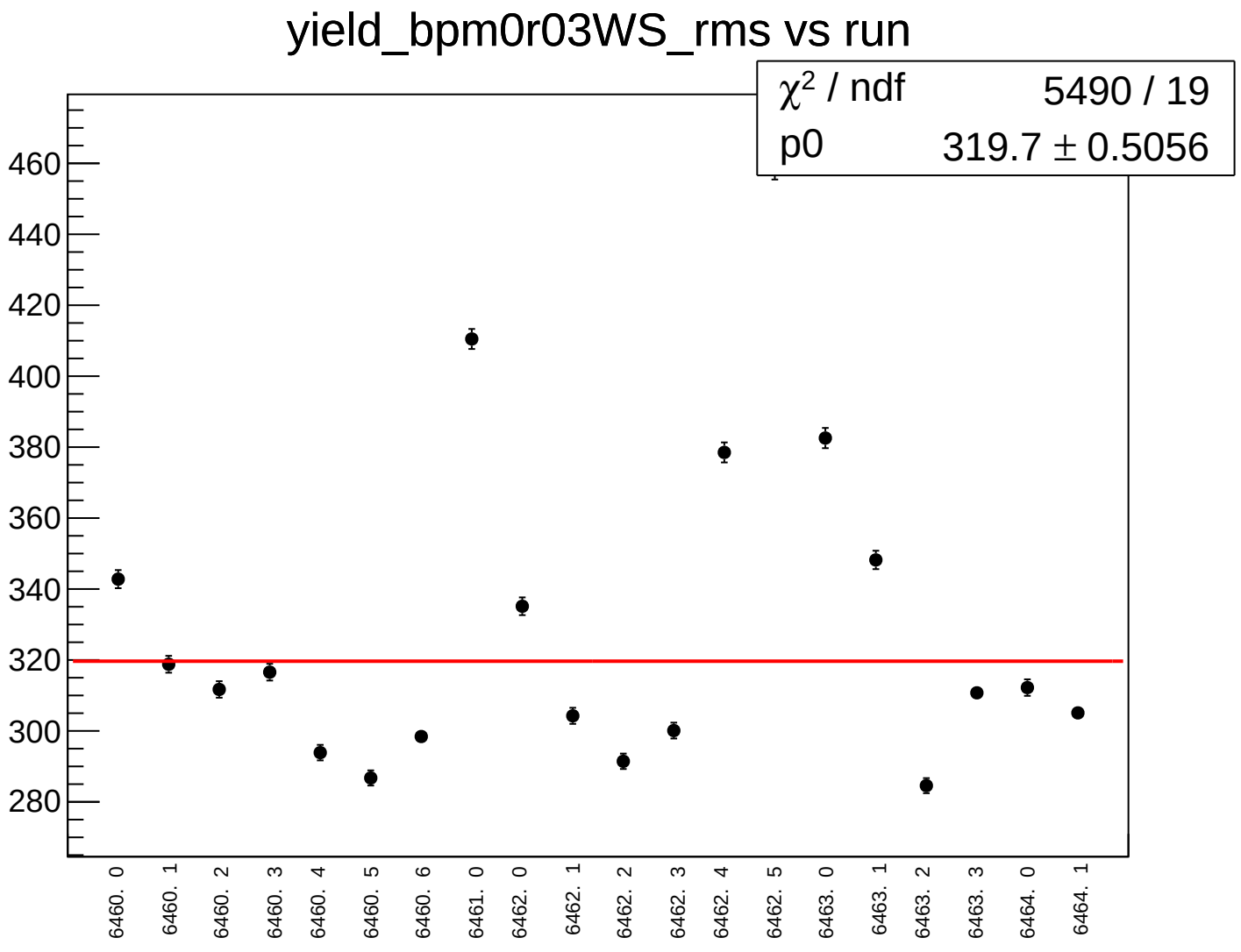

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

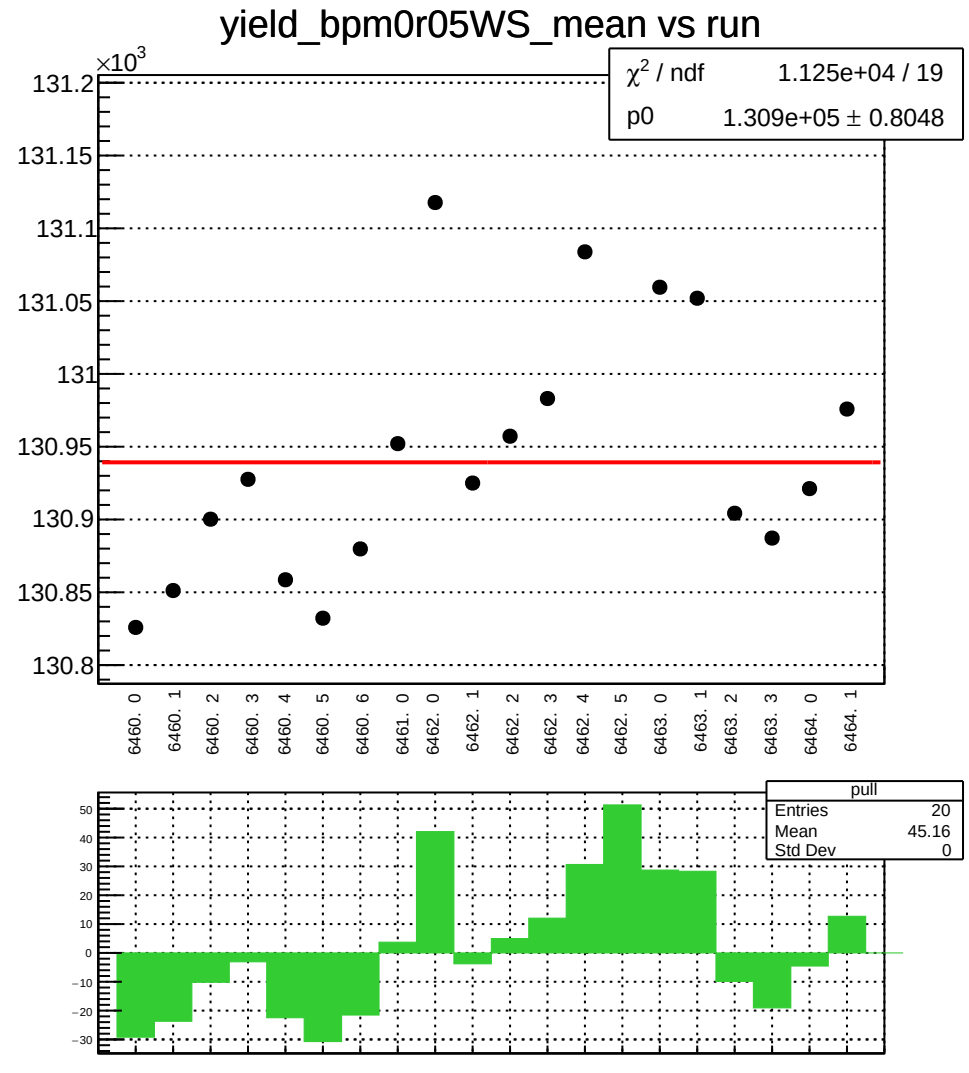

yield_bpm0l10WS_rms vs run
χ² / ndf 3155 / 19
p0 188.8 ± 0.2978
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

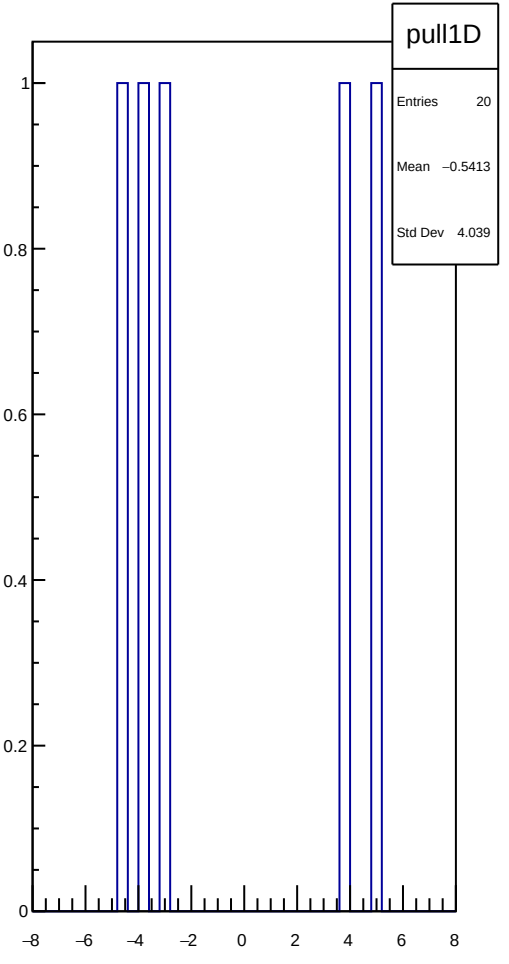

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 8.962e+04 / 19
p0 1.361e+05 ± 0.715
136.5
136.4
136.3
136.2
136.1
136
135.9
135.8
135.7
135.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

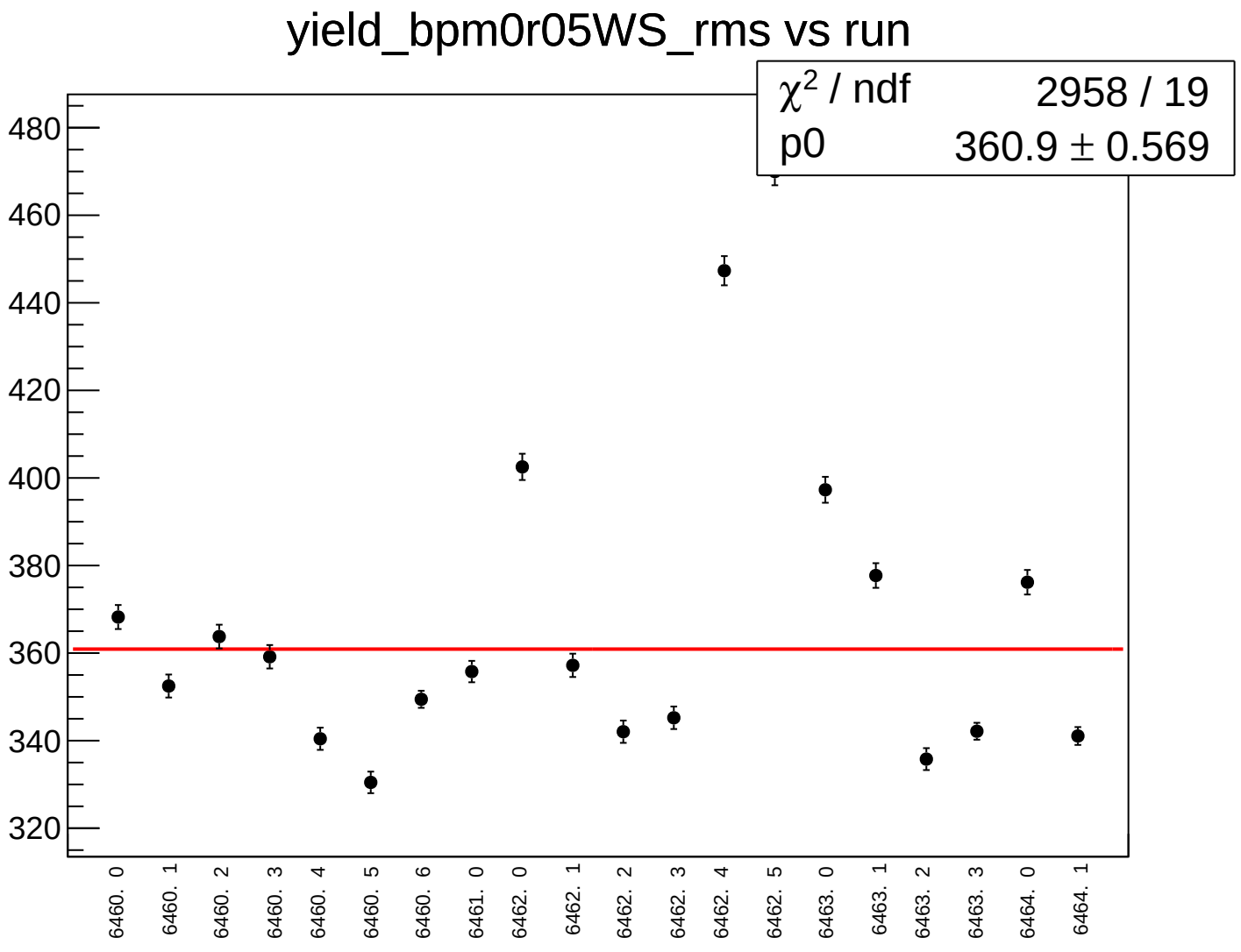

pull
Entries 20
Mean −16.04
Std Dev 0
100
50
0
−50
−100

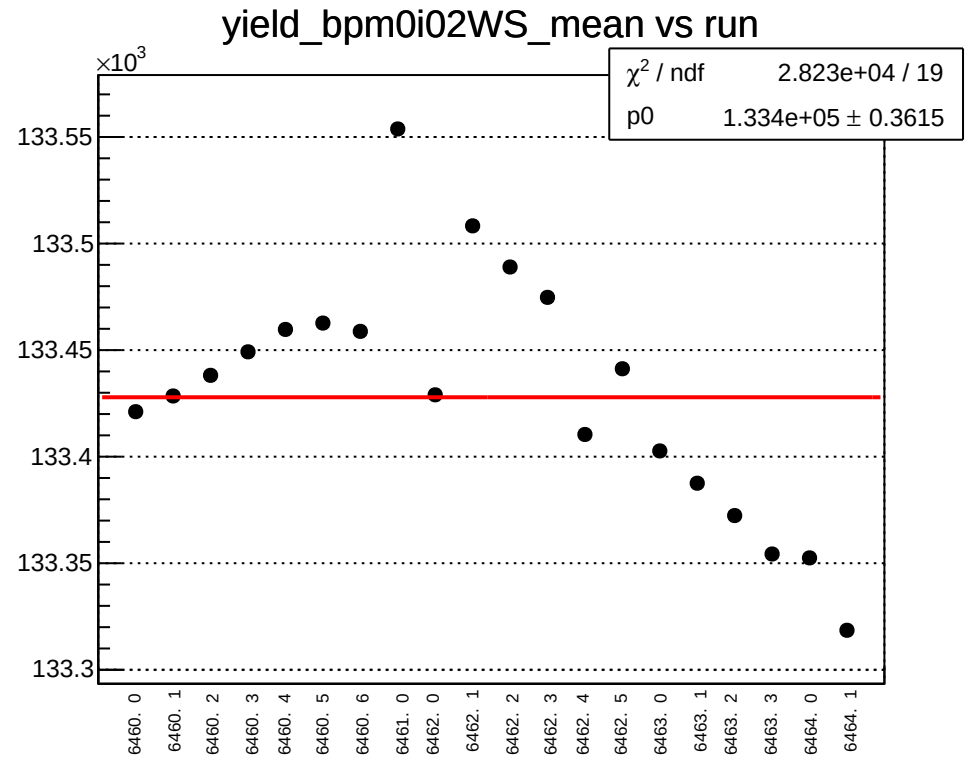

pull1D
Entries 20
Mean −0.6323
Std Dev 3.385
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

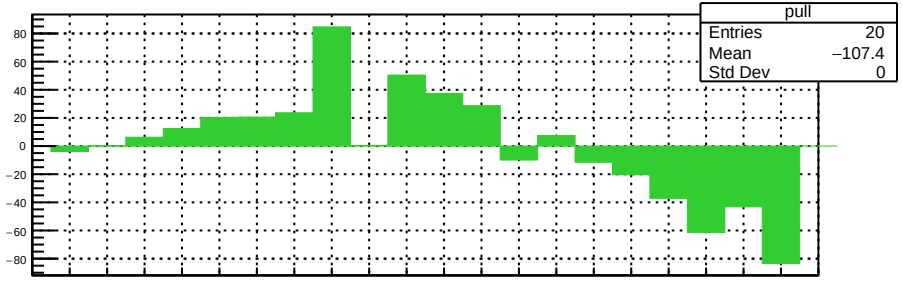

yield_bpm0r03WS_rms vs run
χ² / ndf 5490 / 19
p0 319.7 ± 0.5056
460
440
420
400
380
360
340
320
300
280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

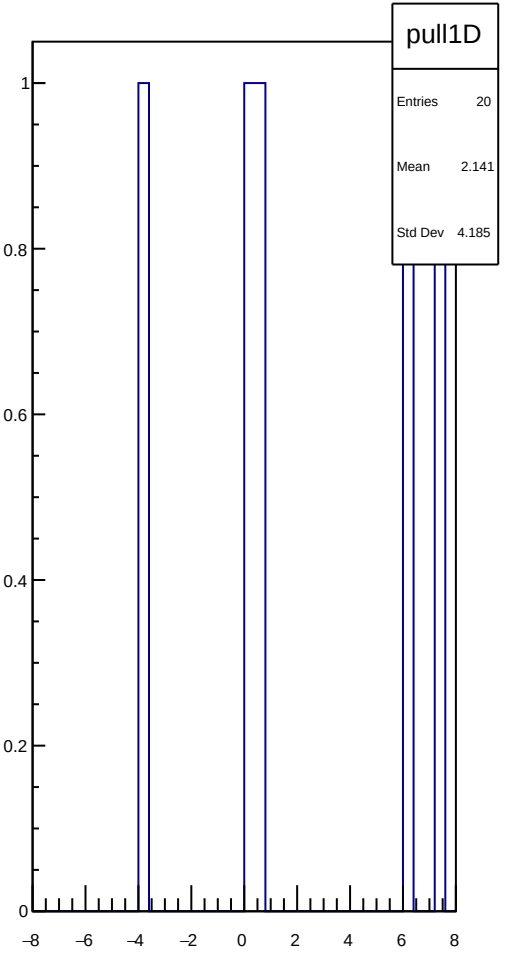

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.125e+04 / 19
p0 1.309e+05 ± 0.8048
131.2
131.15
131.1
131.05
131
130.95
130.9
130.85
130.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 45.16
Std Dev 0
50
40
30
20
10
0
−10
−20
−30

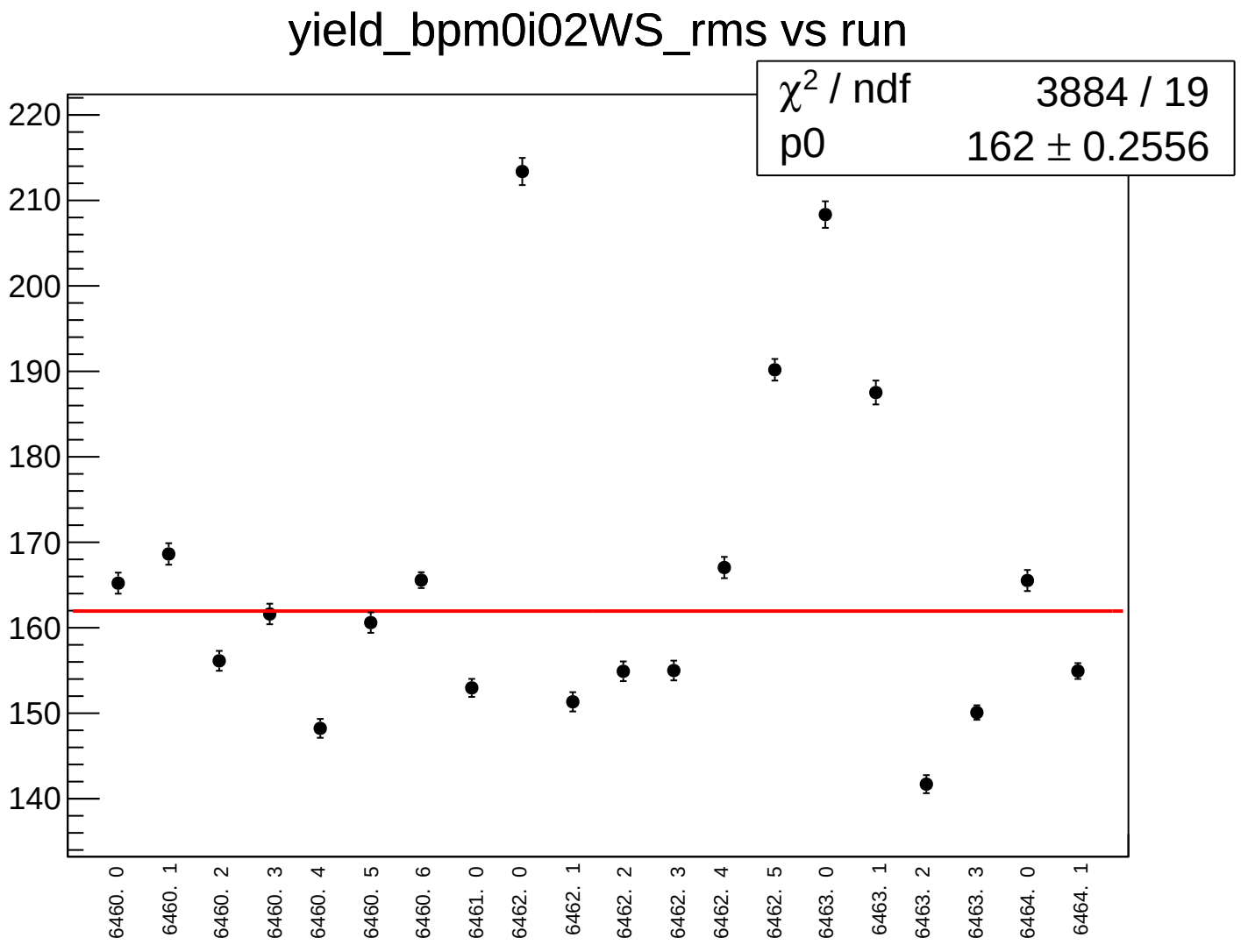

pull1D
Entries 20
Mean −0.5413
Std Dev 4.039
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

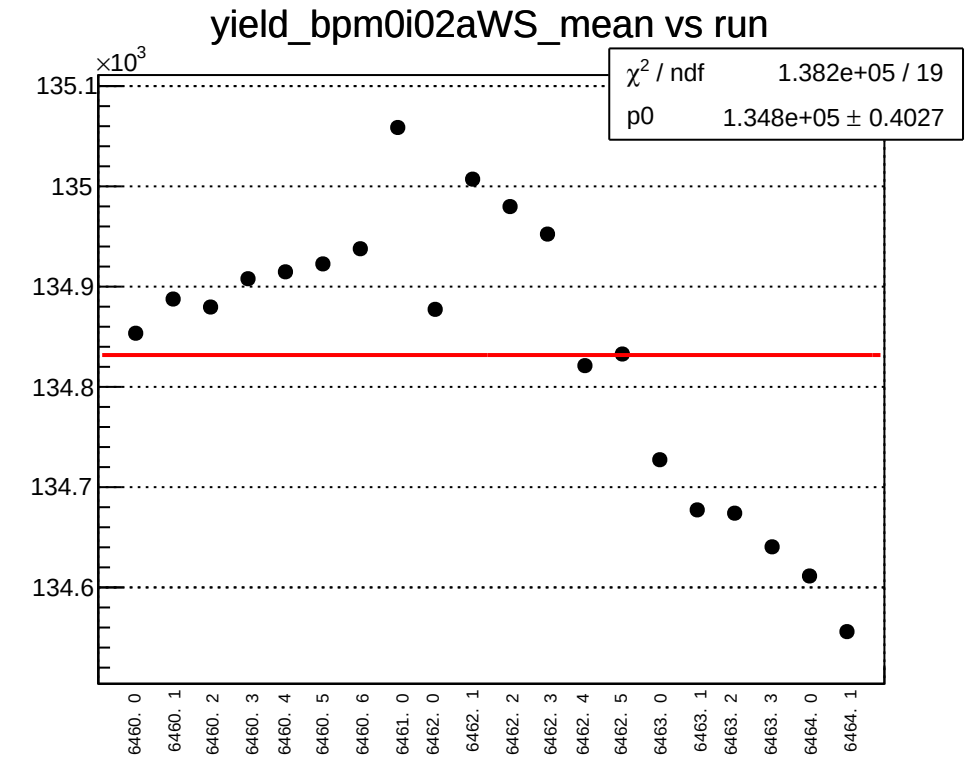

yield_bpm0r05WS_rms vs run
χ² / ndf 2958 / 19
p0 360.9 ± 0.569
480
460
440
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

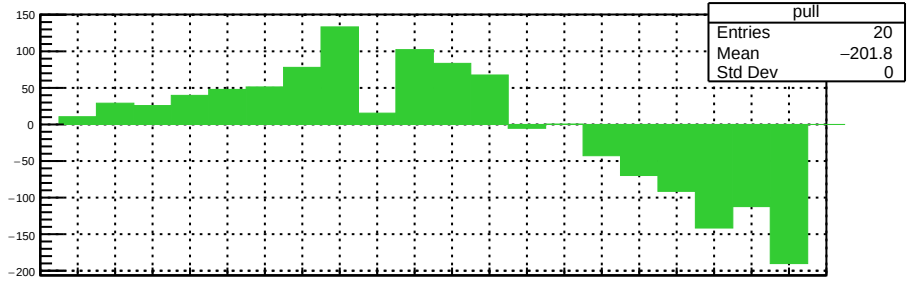

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 2.823e+04 / 19
p0 1.334e+05 ± 0.3615
133.55
133.5
133.45
133.4
133.35
133.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

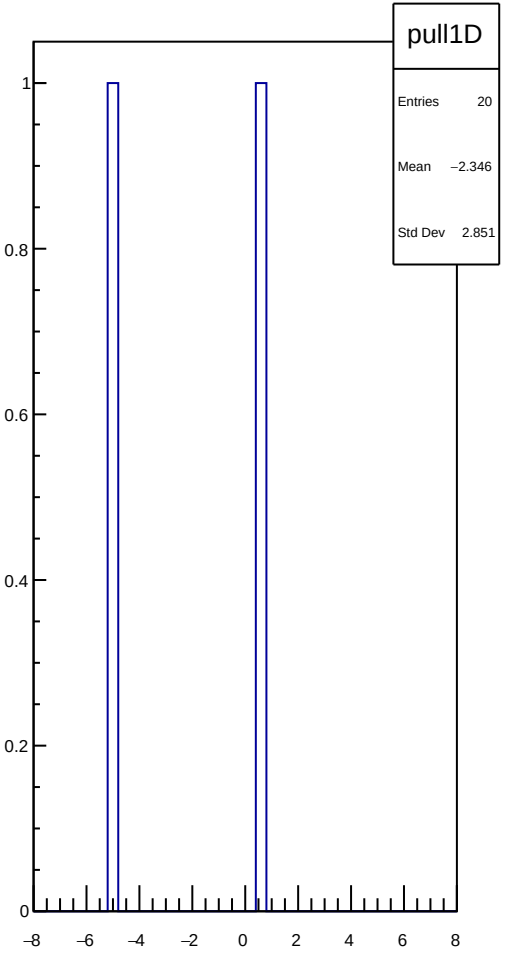

pull
Entries 20
Mean −107.4
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

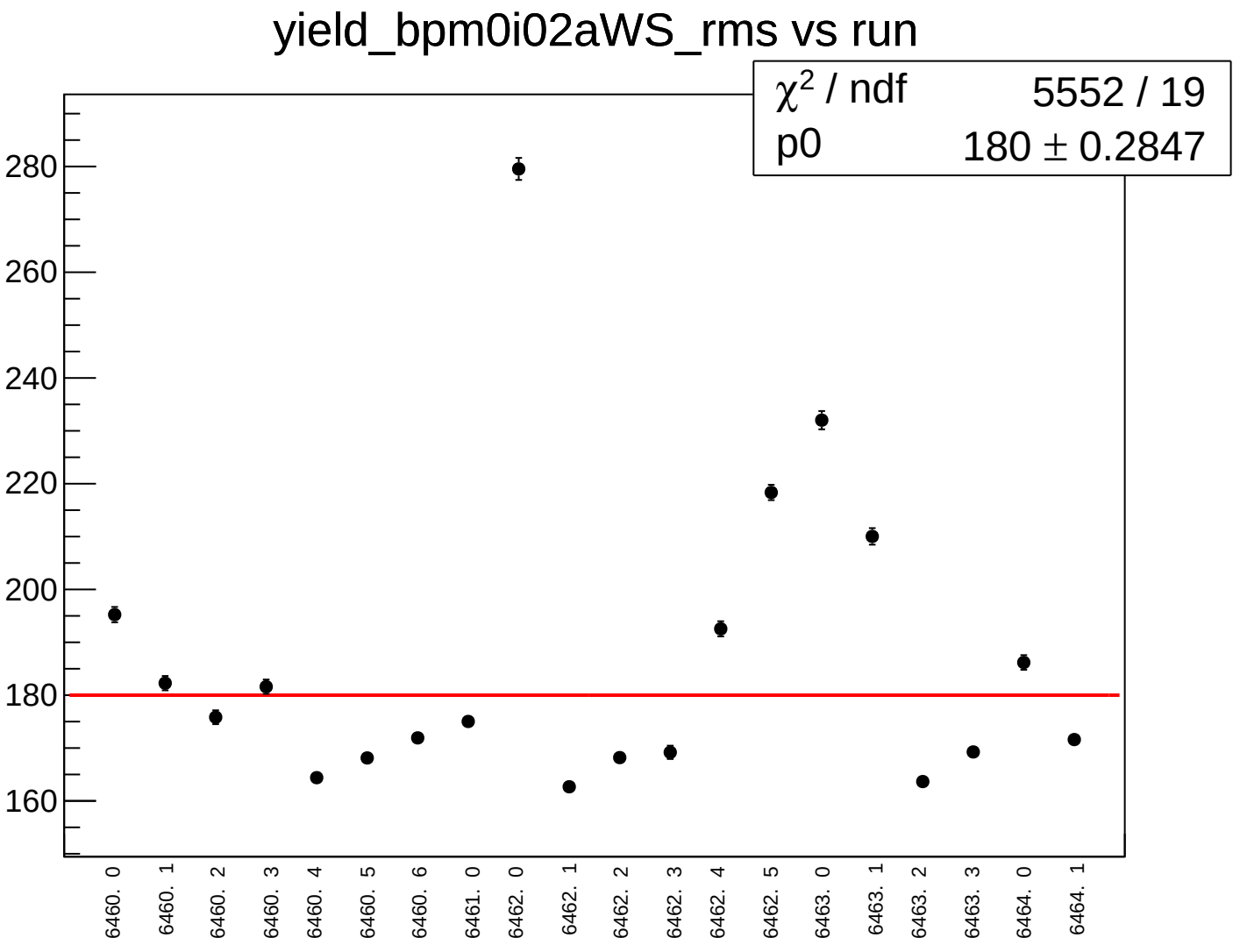

pull1D
Entries 20
Mean 2.141
Std Dev 4.185
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

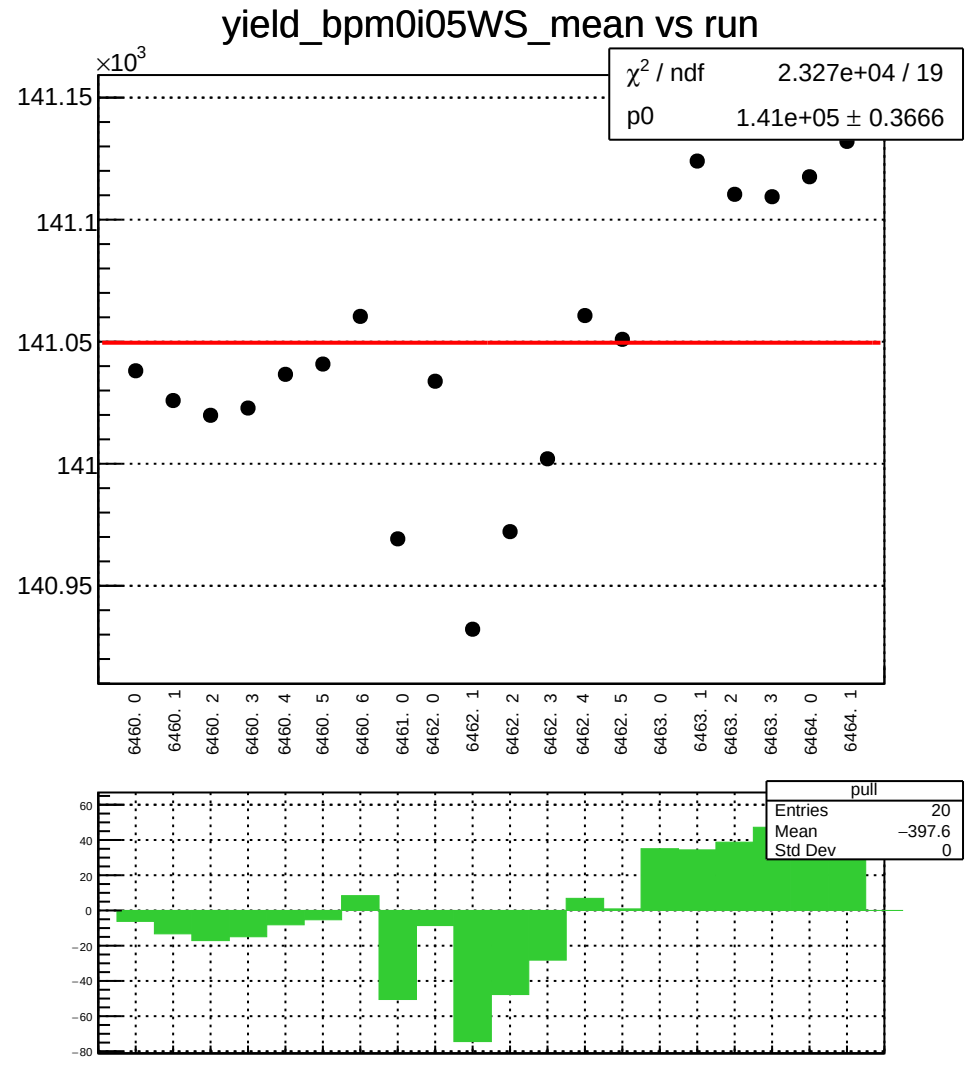

yield_bpm0i02WS_rms vs run
χ^2 / ndf 3884 / 19
p0 162 ± 0.2556
220
210
200
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

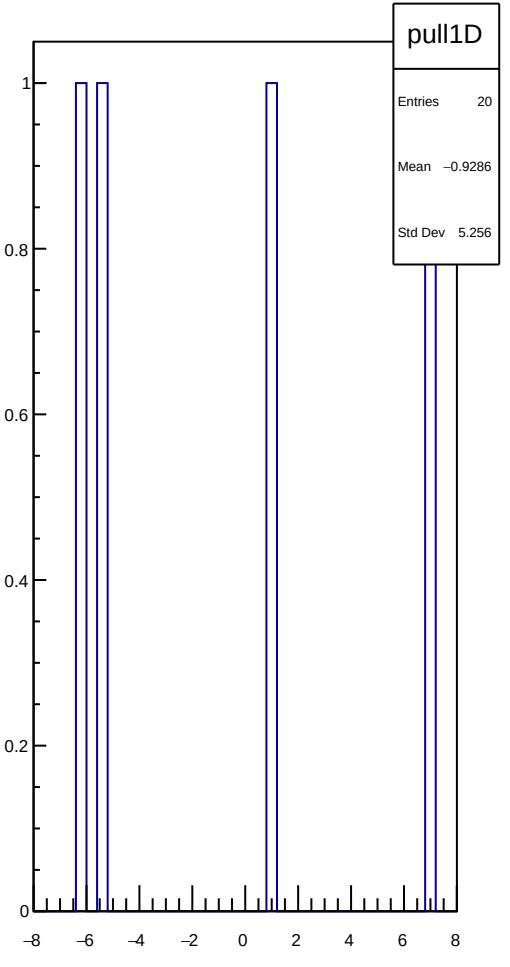

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.382e+05 / 19
p0 1.348e+05 ± 0.4027
135.1
135
134.9
134.8
134.7
134.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

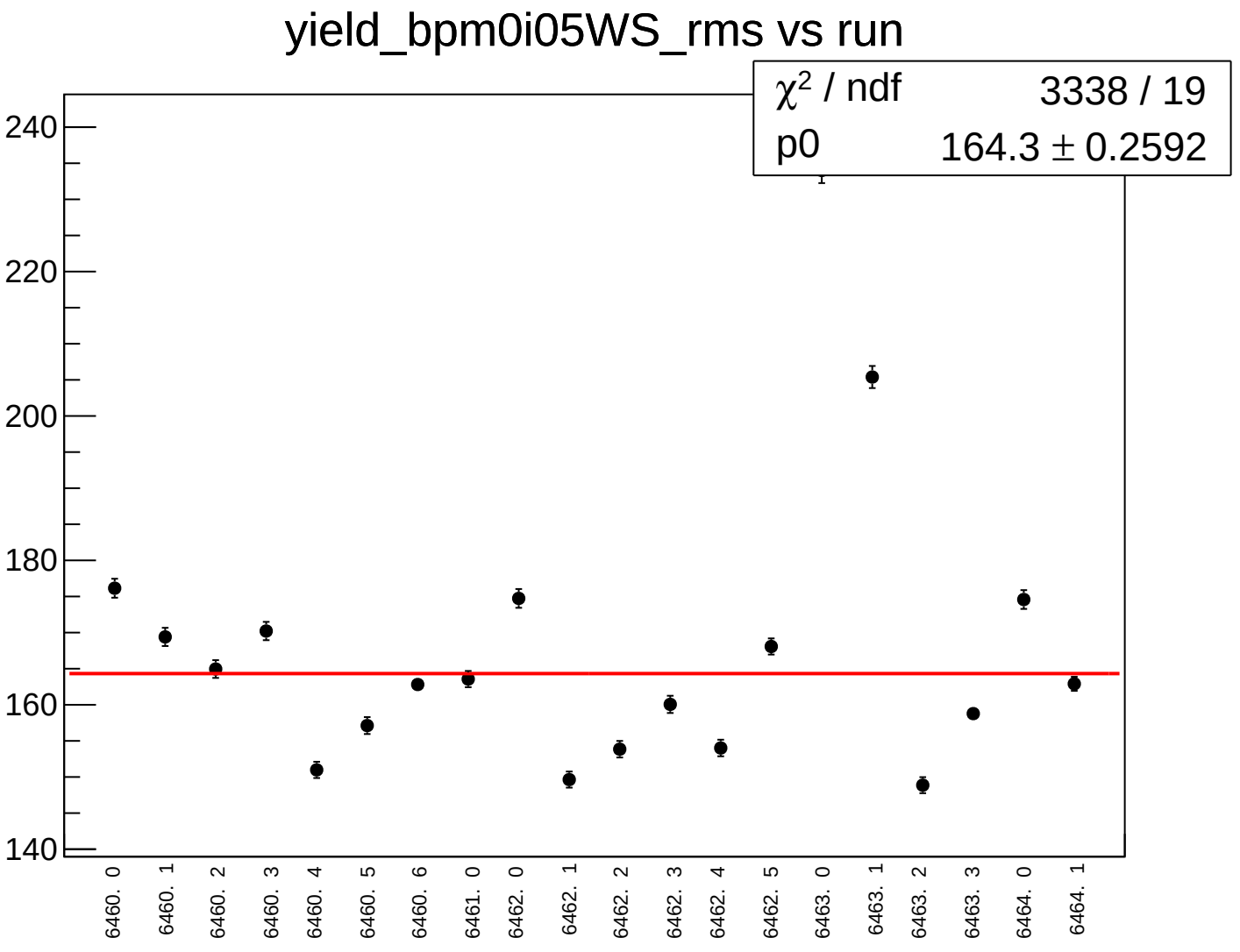

pull
Entries 20
Mean −201.8
Std Dev 0
150
100
50
0
−50
−100
−150
−200

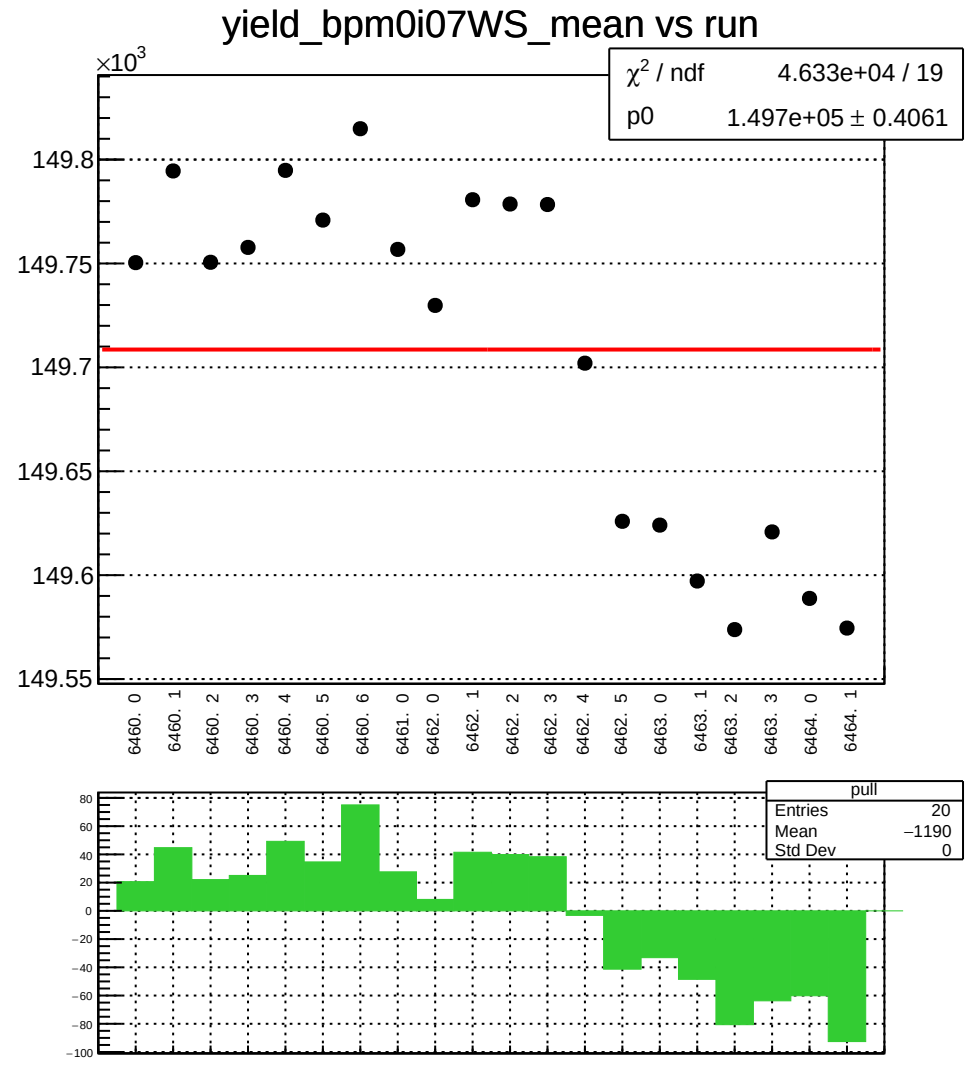

pull1D
Entries 20
Mean −2.346
Std Dev 2.851
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

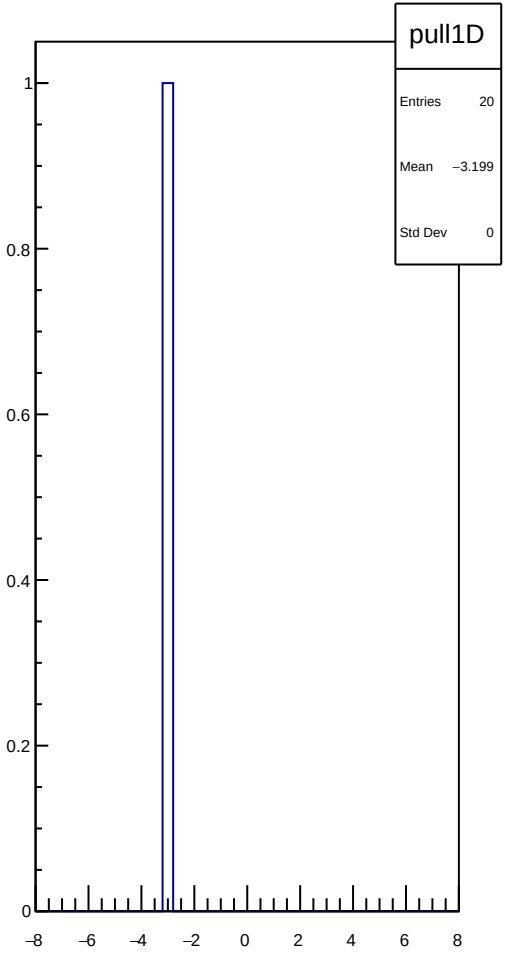

yield_bpm0i02aWS_rms vs run
χ² / ndf 5552 / 19
p0 180 ± 0.2847
280
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

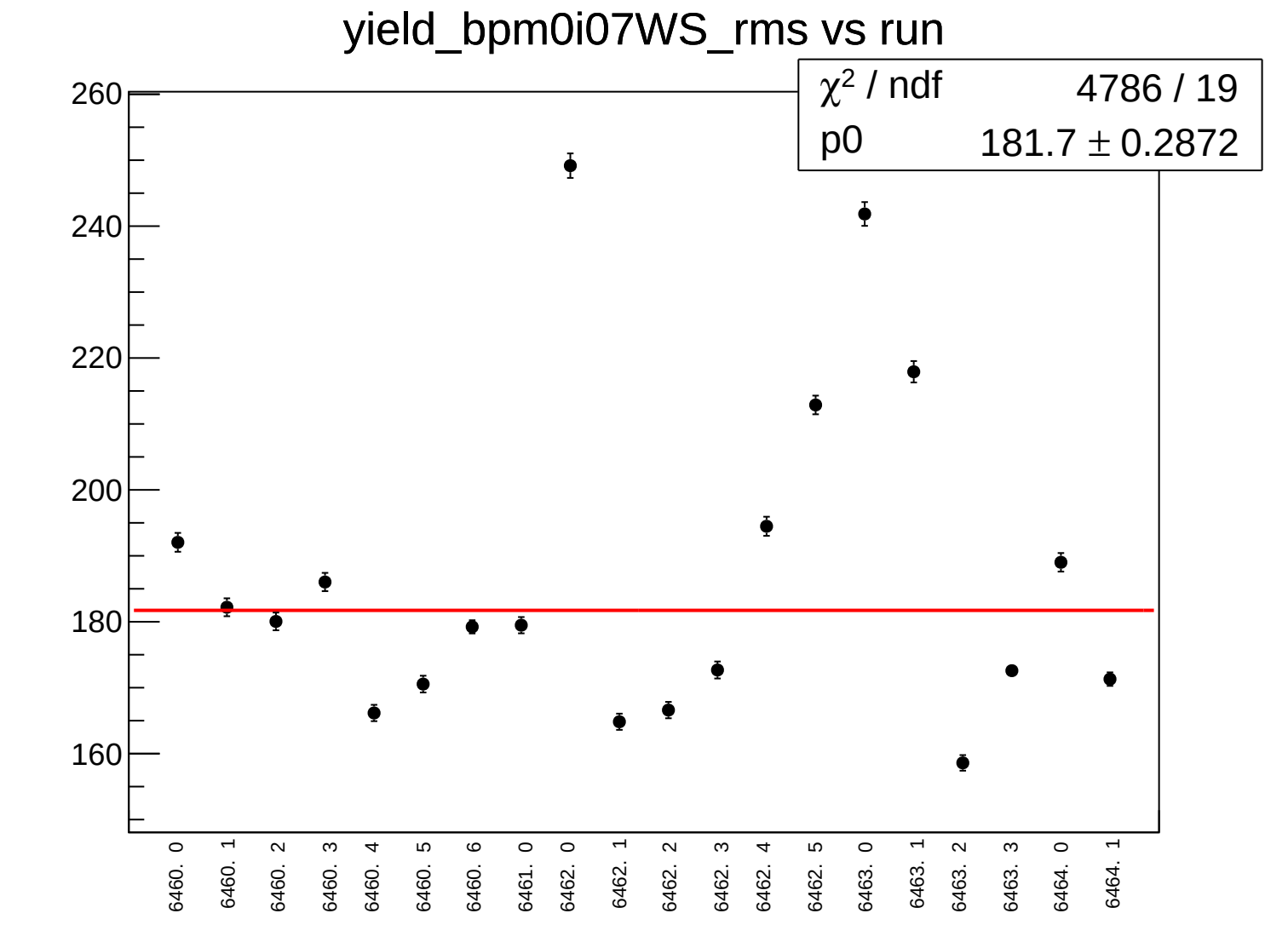

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 2.327e+04 / 19
p0 1.41e+05 ± 0.3666
141.15
141.1
141.05
141
140.95
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −397.6
Std Dev 0
60
40
20
0
−20
−40
−60
−80

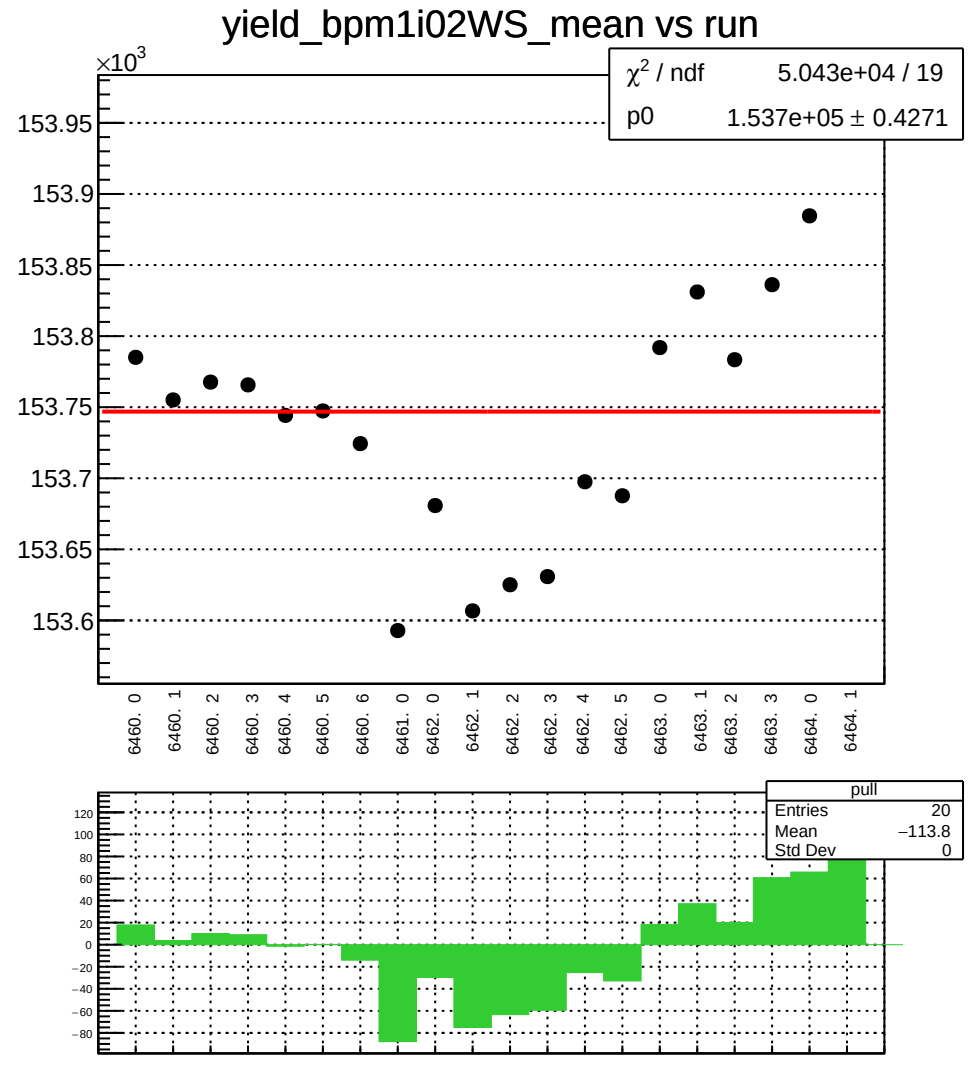

pull1D
Entries 20
Mean −0.9286
Std Dev 5.256
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

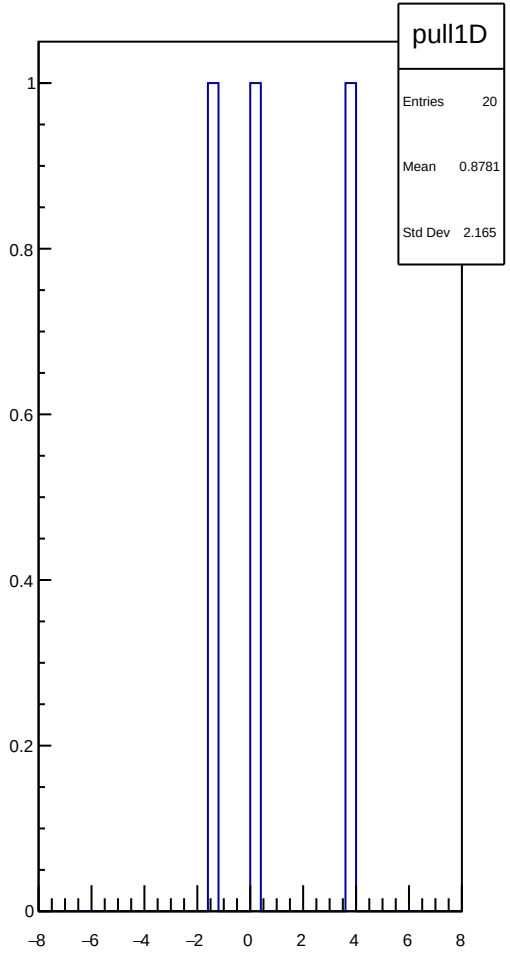

yield_bpm0i05WS_rms vs run
χ² / ndf 3338 / 19
p0 164.3 ± 0.2592
240
220
200
180
160
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

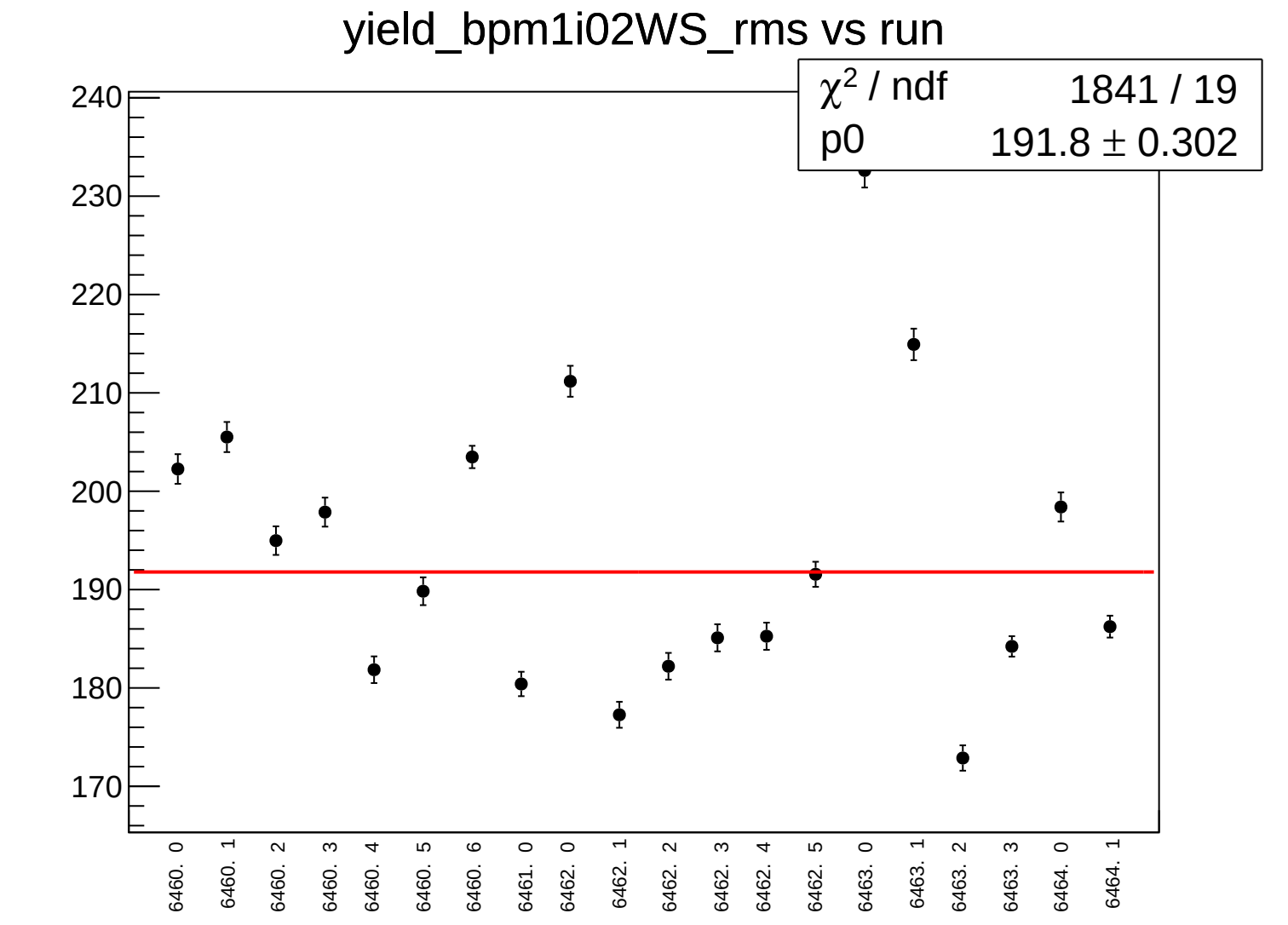

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.633e+04 / 19
p0 1.497e+05 ± 0.4061
149.8
149.75
149.7
149.65
149.6
149.55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1190
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

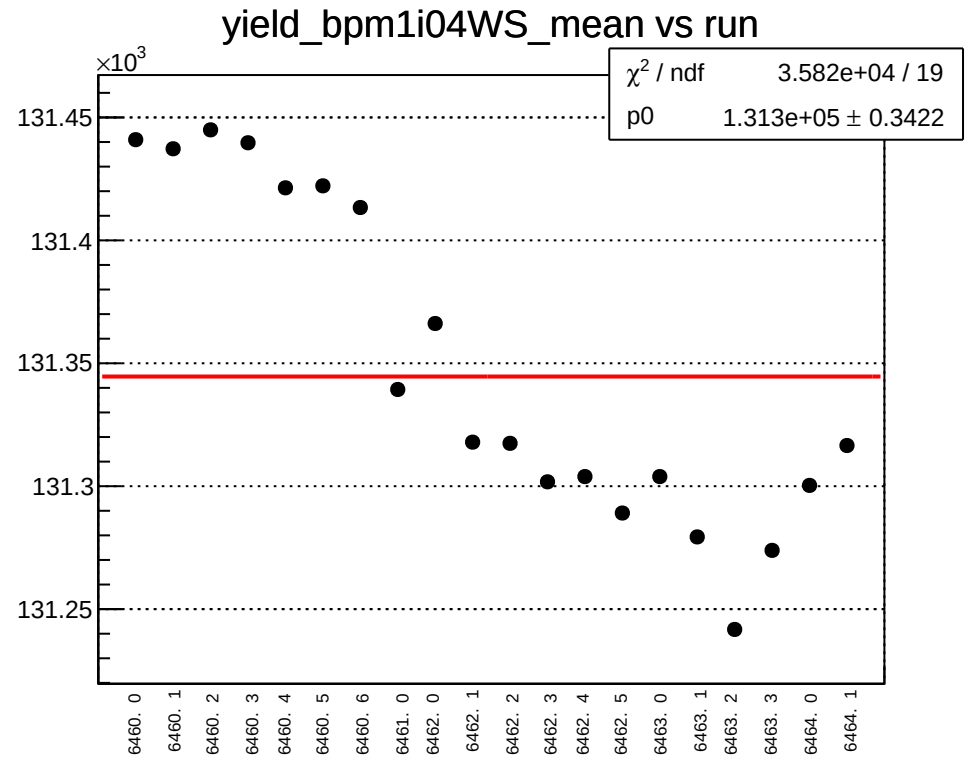

pull1D
Entries 20
Mean −3.199
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

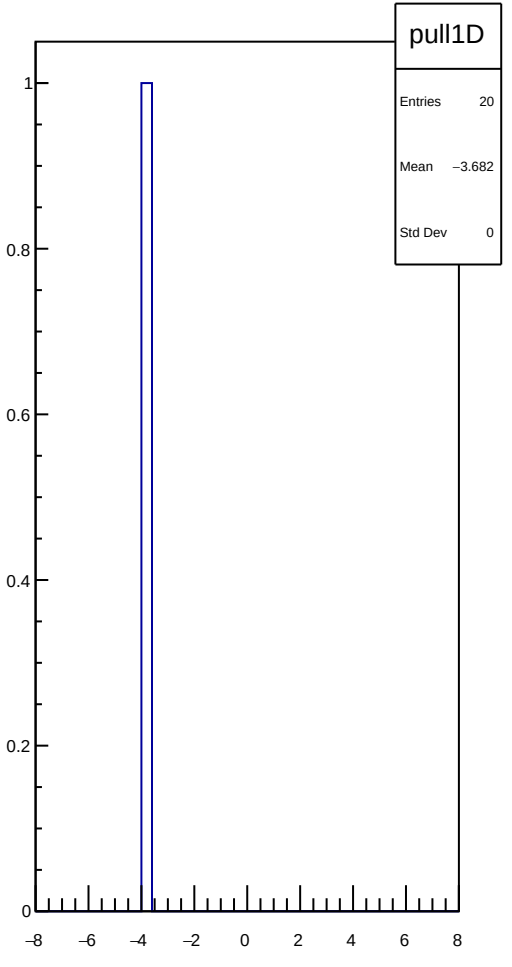

yield_bpm0i07WS_rms vs run
χ² / ndf 4786 / 19
p0 181.7 ± 0.2872
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

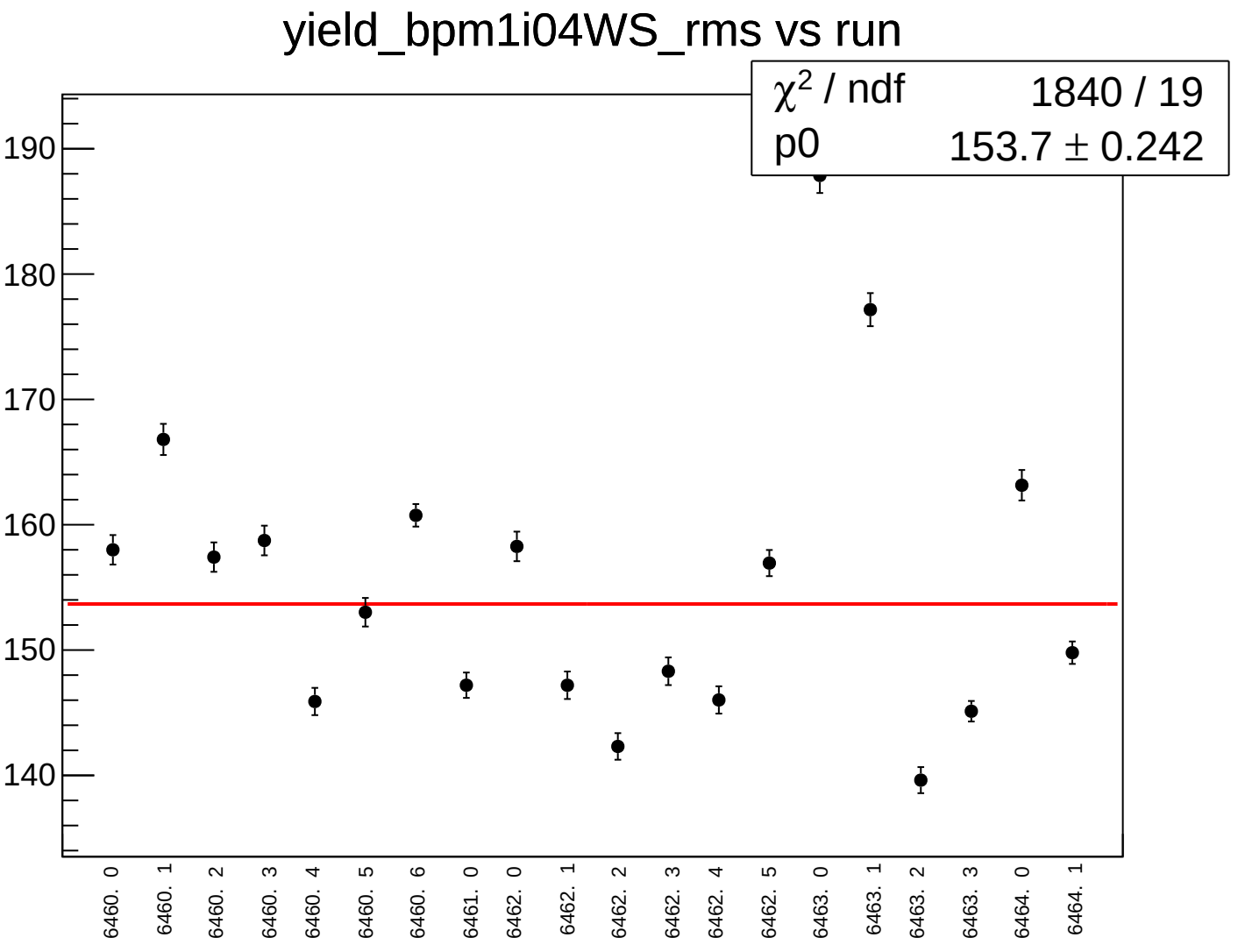

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 5.043e+04 / 19
p0 1.537e+05 ± 0.4271
153.95
153.9
153.85
153.8
153.75
153.7
153.65
153.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −113.8
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

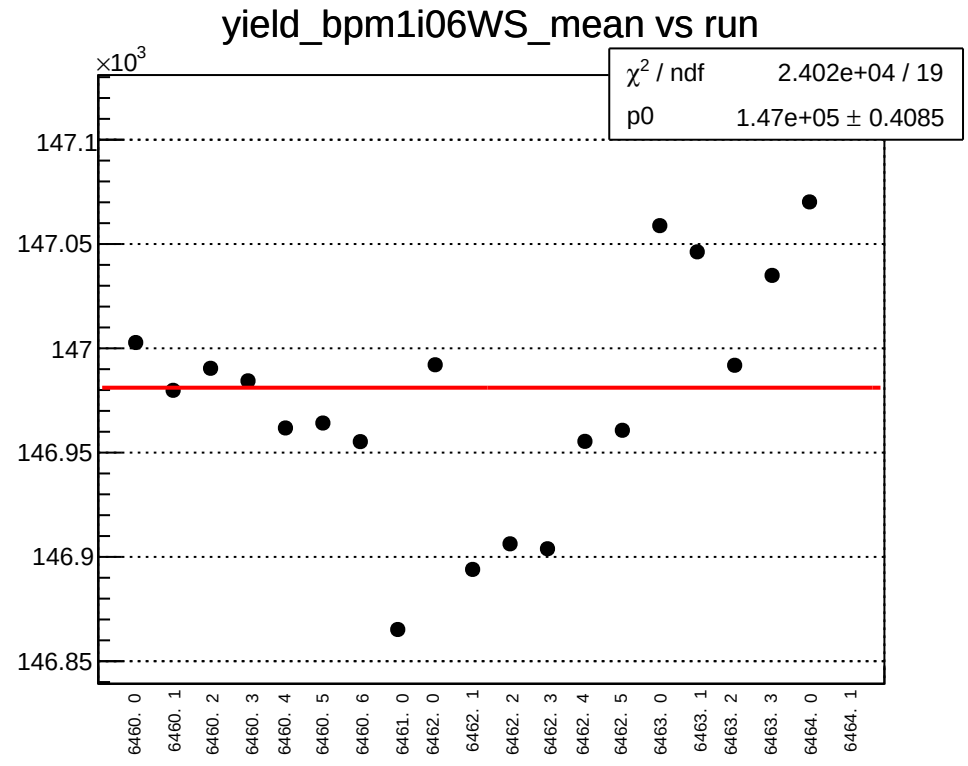

pull1D
Entries 20
Mean 0.8781
Std Dev 2.165
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

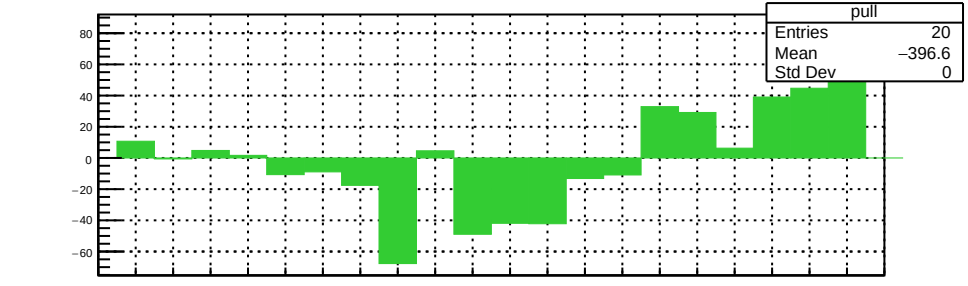

yield_bpm1i02WS_rms vs run
χ² / ndf 1841 / 19
p0 191.8 ± 0.302
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

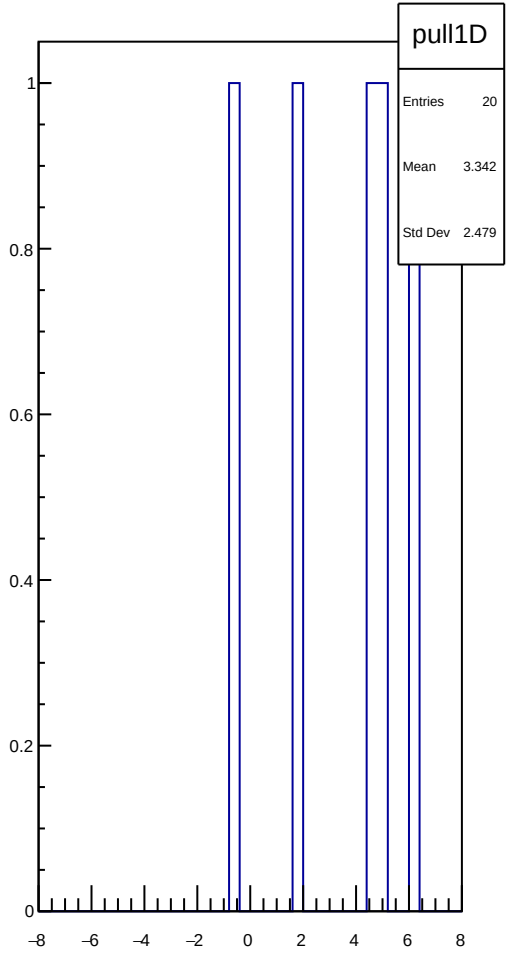

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 3.582e+04 / 19
p0 1.313e+05 ± 0.3422
131.45
131.4
131.35
131.3
131.25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −146.2
Std Dev 0
60
40
20
0
−20
−40
−60

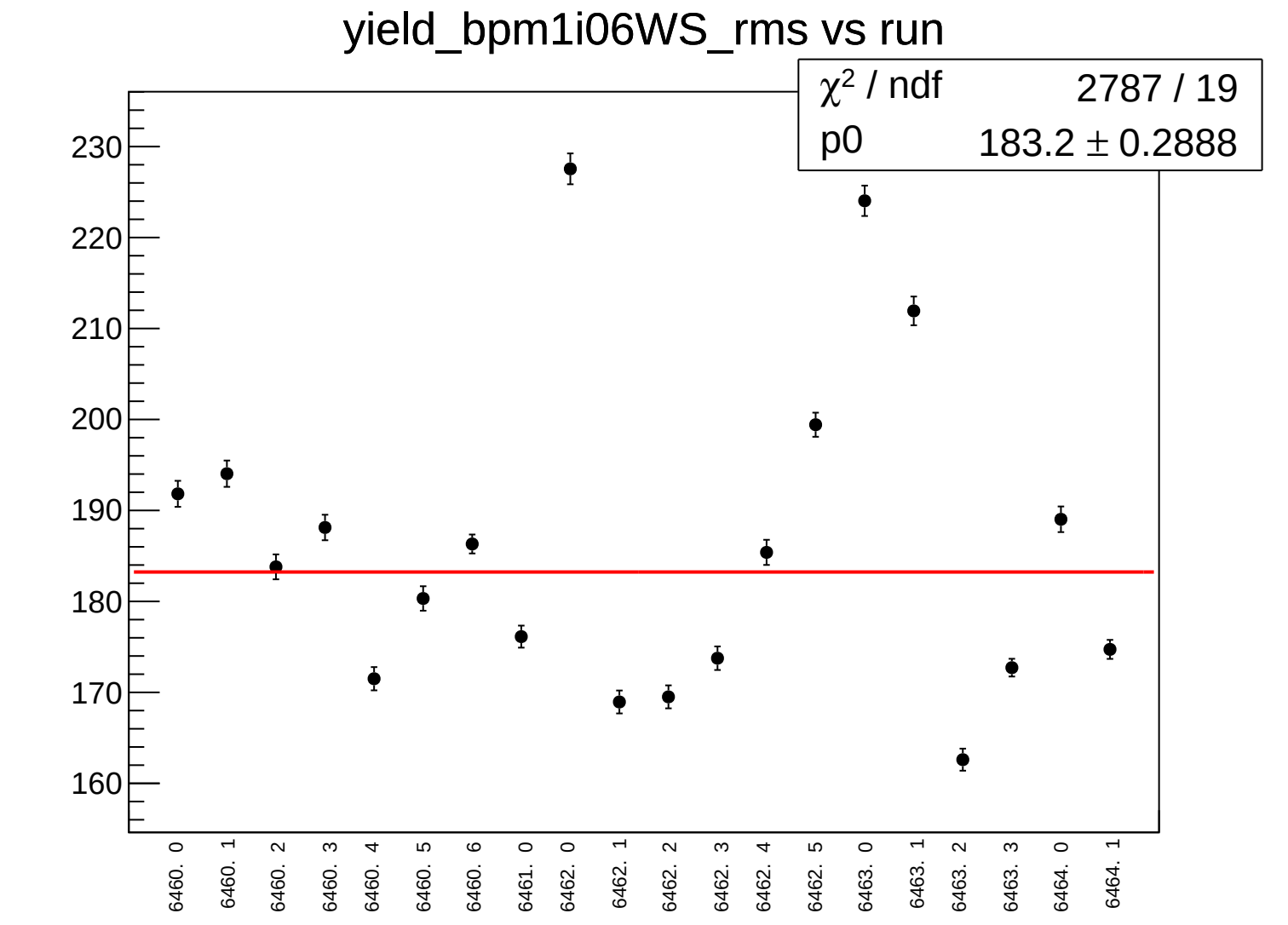

pull1D
Entries 20
Mean −3.682
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

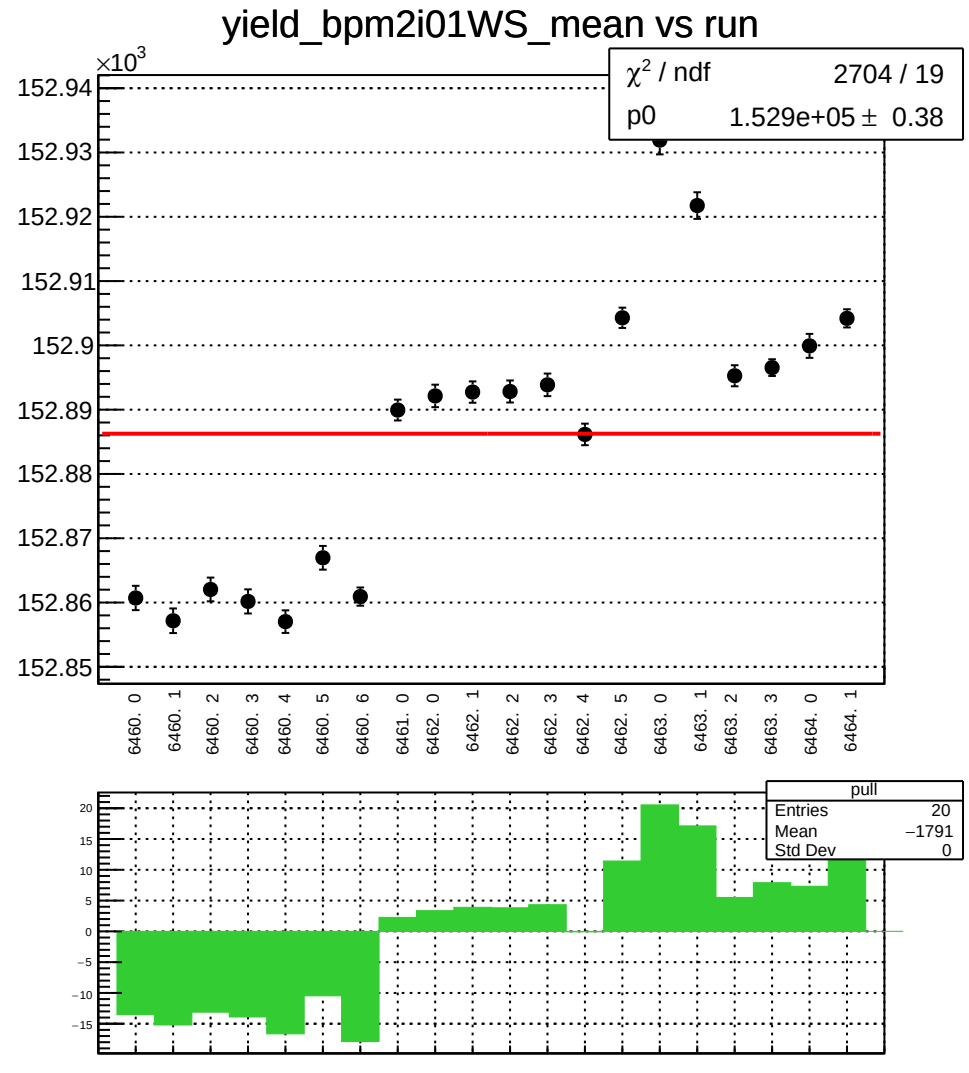

yield_bpm1i04WS_rms vs run
χ² / ndf 1840 / 19
p0 153.7 ± 0.242
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

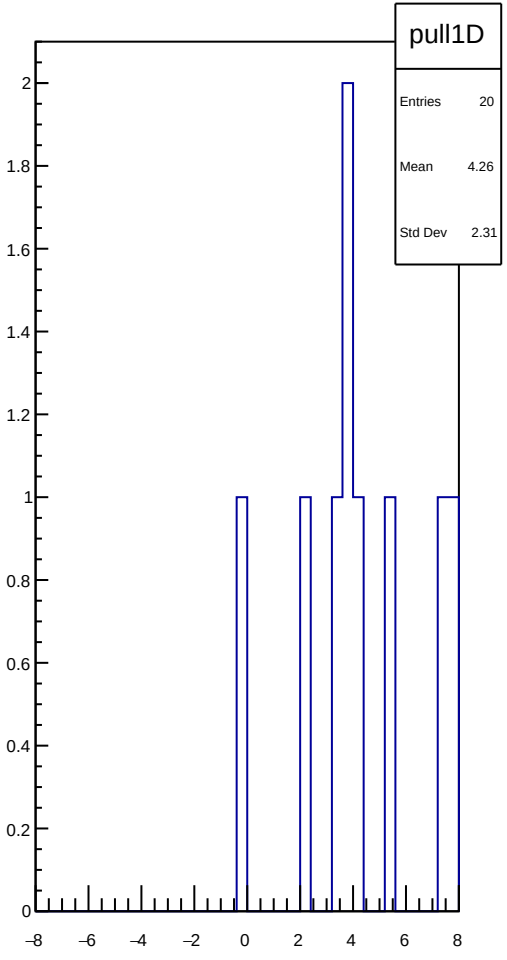

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 2.402e+04 / 19
p0 1.47e+05 ± 0.4085
147.1
147.05
147
146.95
146.9
146.85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

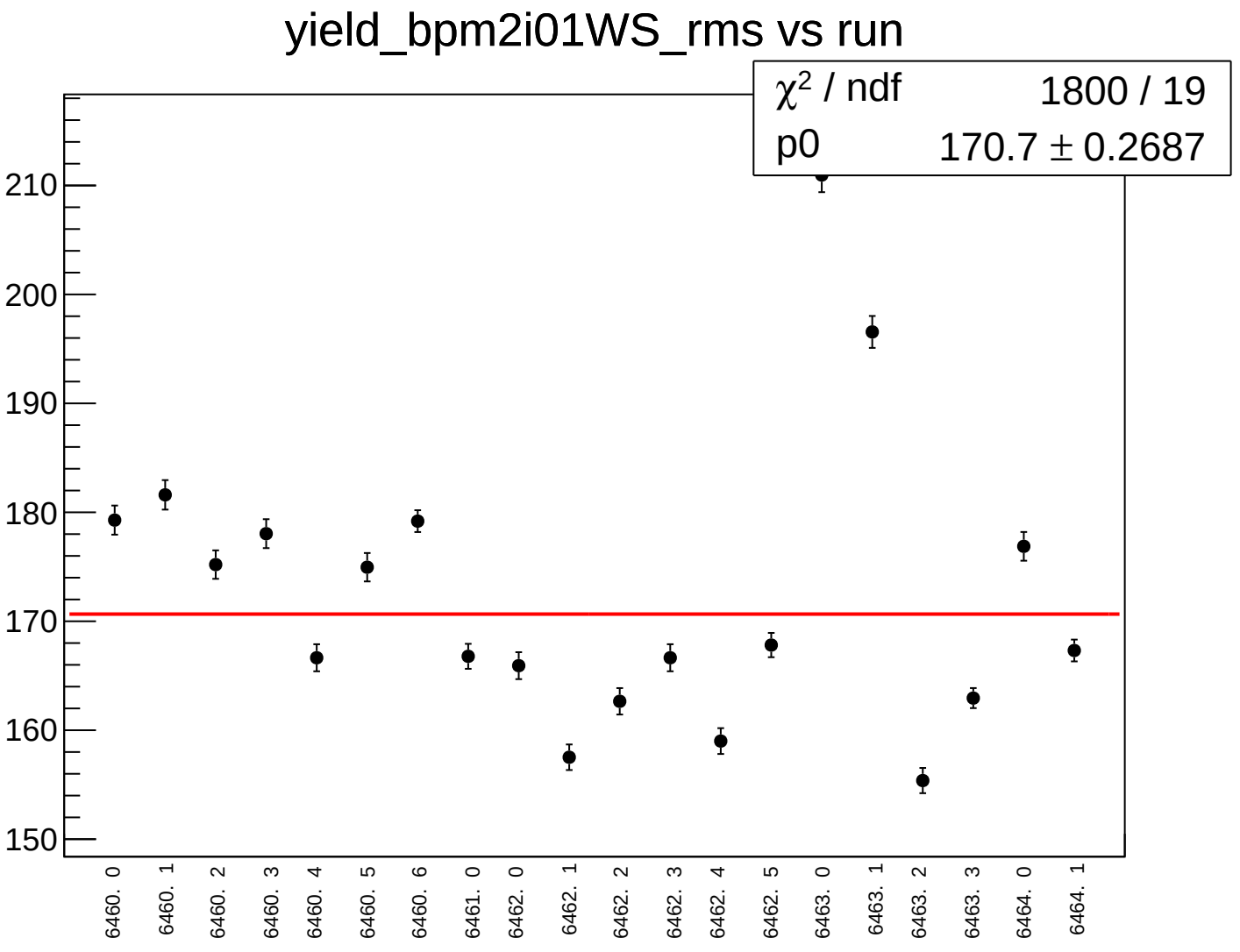

pull
Entries 20
Mean −396.6
Std Dev 0
80
60
40
20
0
−20
−40
−60

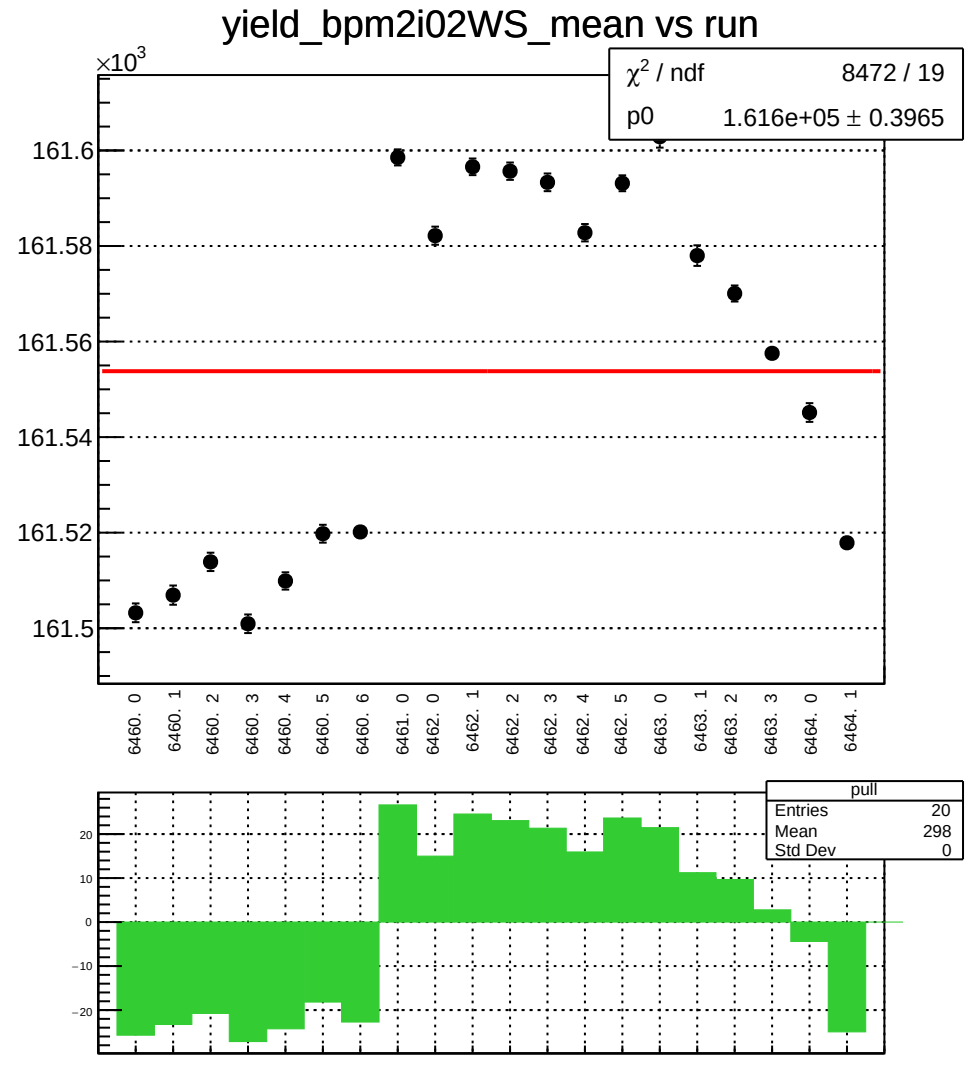

pull1D
Entries 20
Mean 3.342
Std Dev 2.479
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

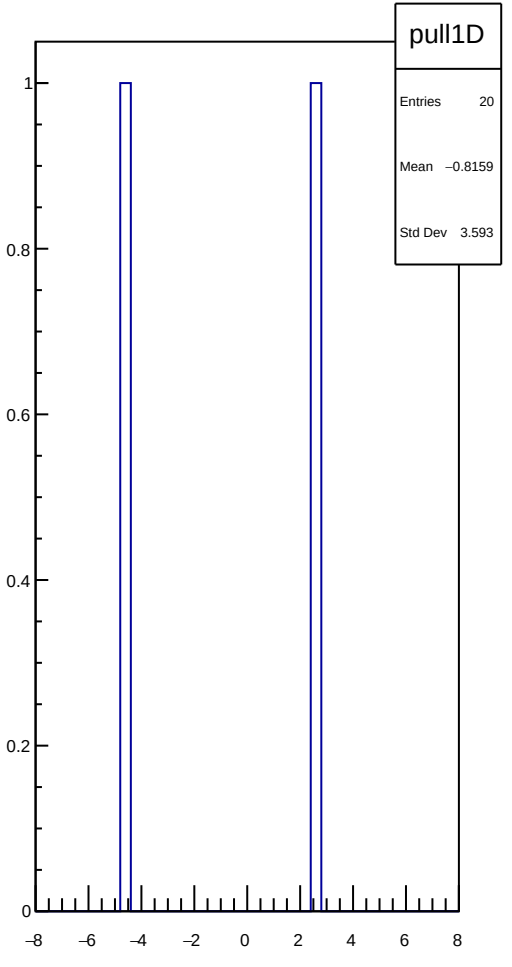

yield_bpm1i06WS_rms vs run
χ² / ndf 2787 / 19
p0 183.2 ± 0.2888
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

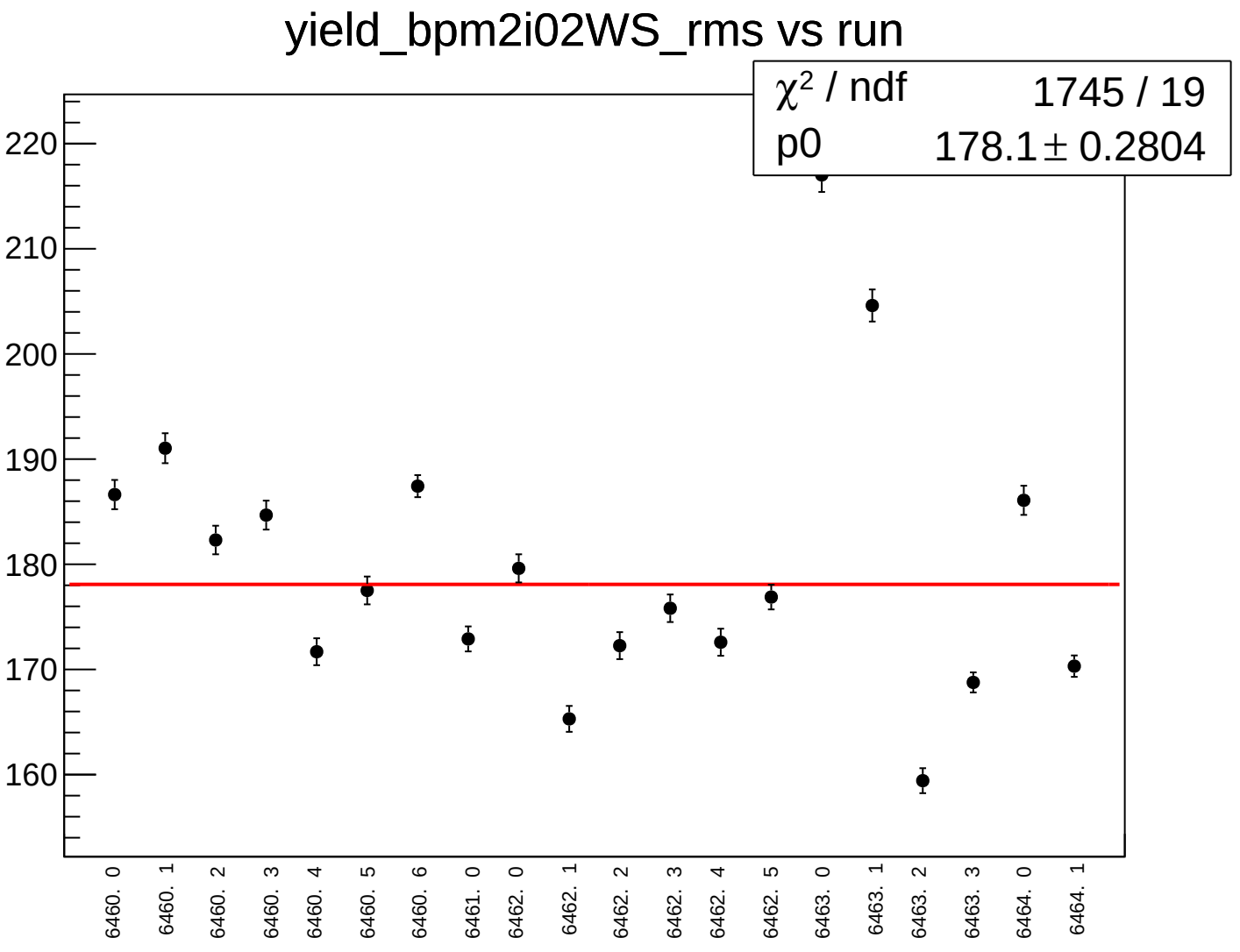

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 2704 / 19
p0 1.529e+05 ± 0.38
152.94
152.93
152.92
152.91
152.9
152.89
152.88
152.87
152.86
152.85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1791
Std Dev 0
20
15
10
5
0
−5
−10
−15

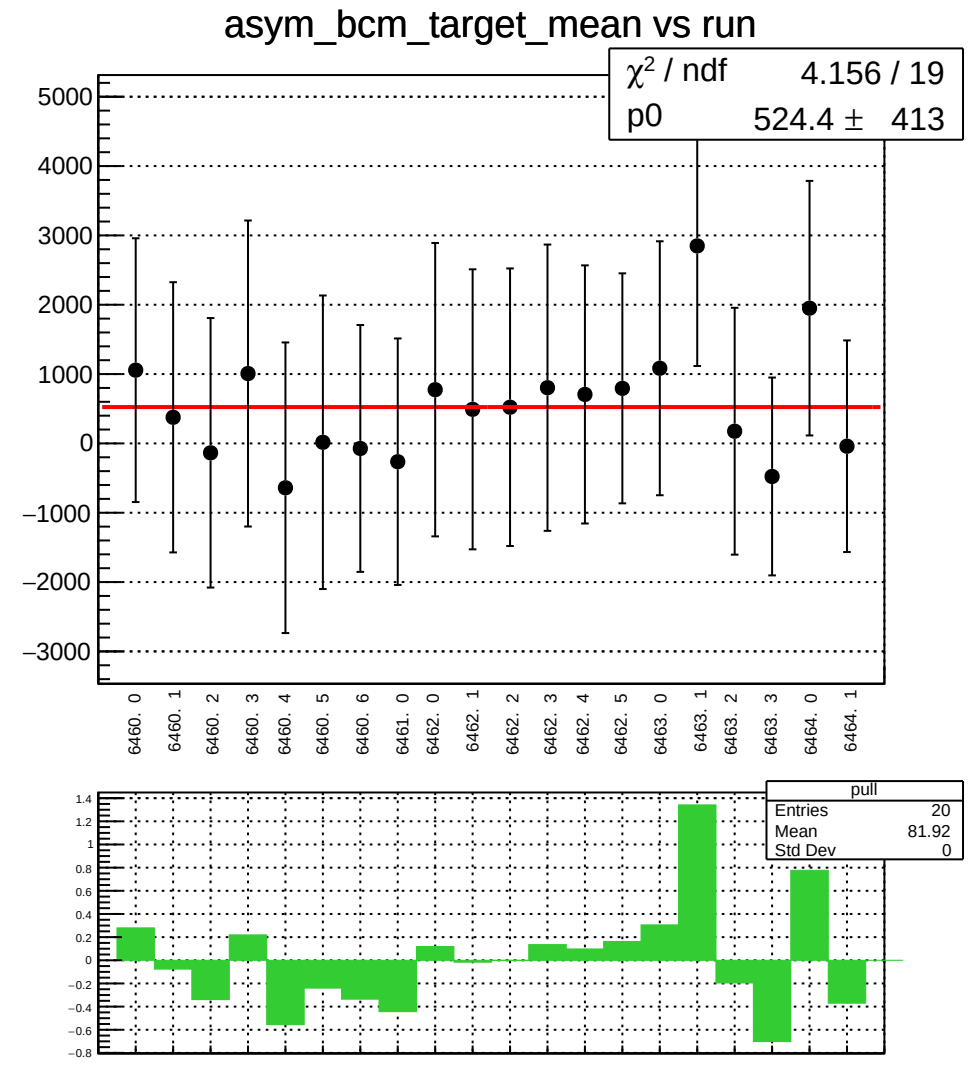

pull1D
Entries 20
Mean 4.26
Std Dev 2.31
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

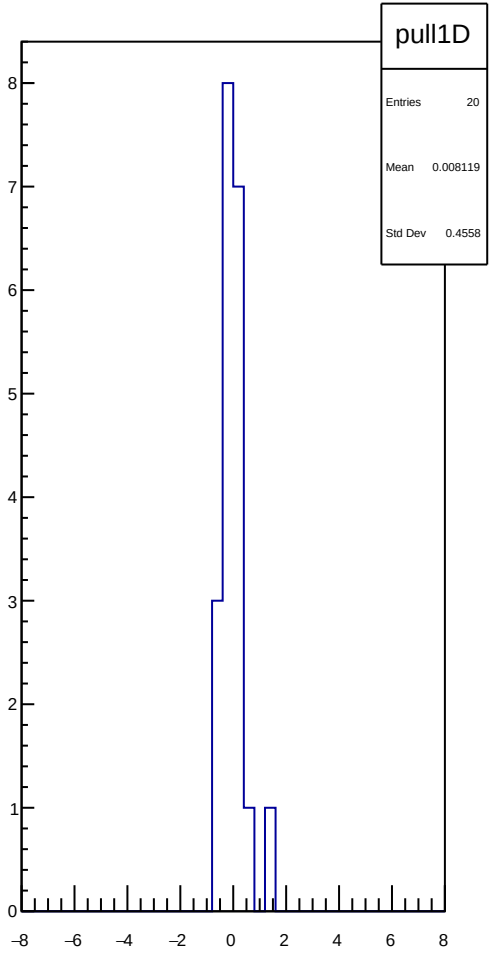

yield_bpm2i01WS_rms vs run
χ² / ndf 1800 / 19
p0 170.7 ± 0.2687
210
200
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

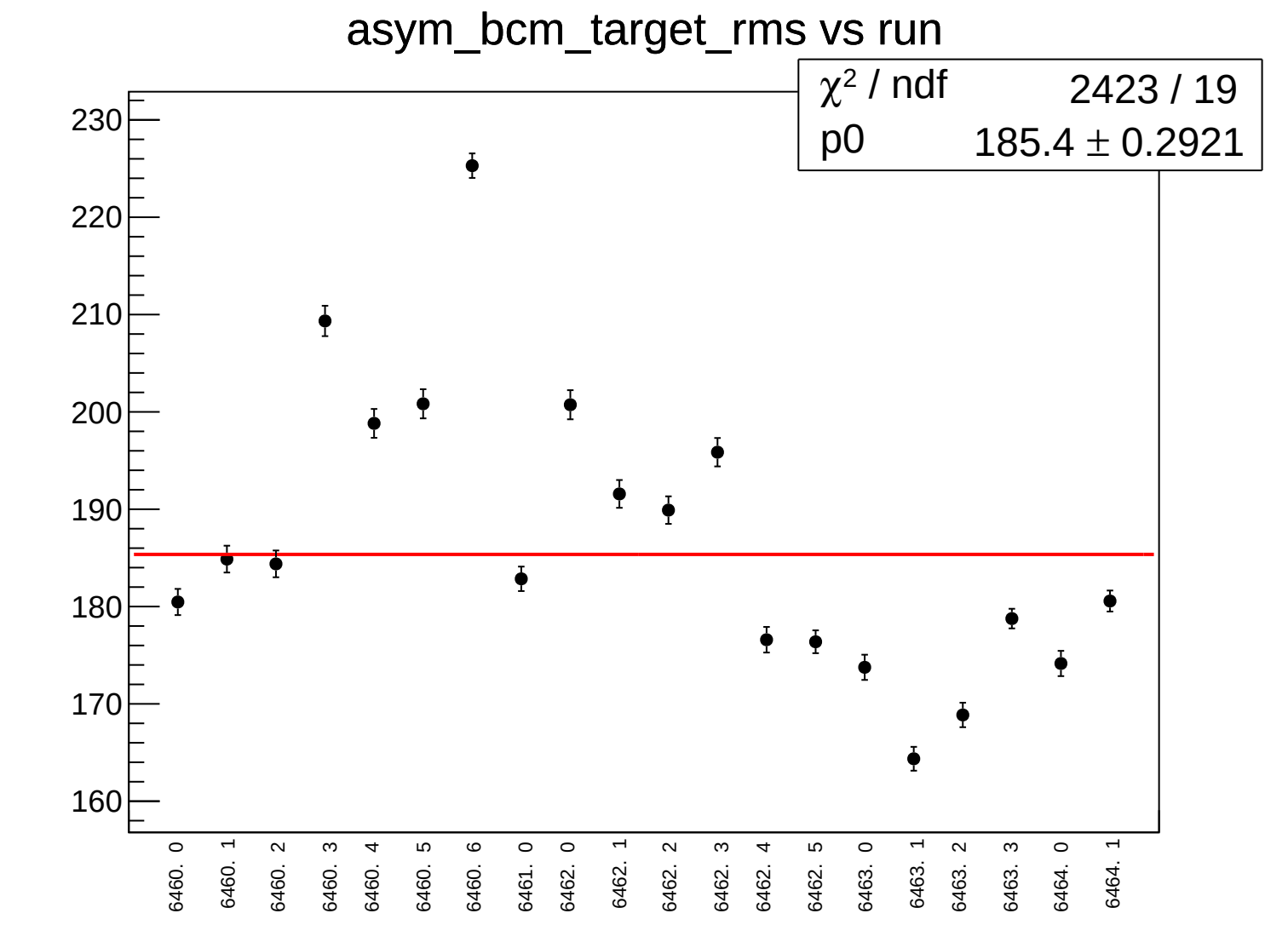

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 8472 / 19
p0 1.616e+05 ± 0.3965
161.6
161.58
161.56
161.54
161.52
161.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 298
Std Dev 0
20
10
0
−10
−20

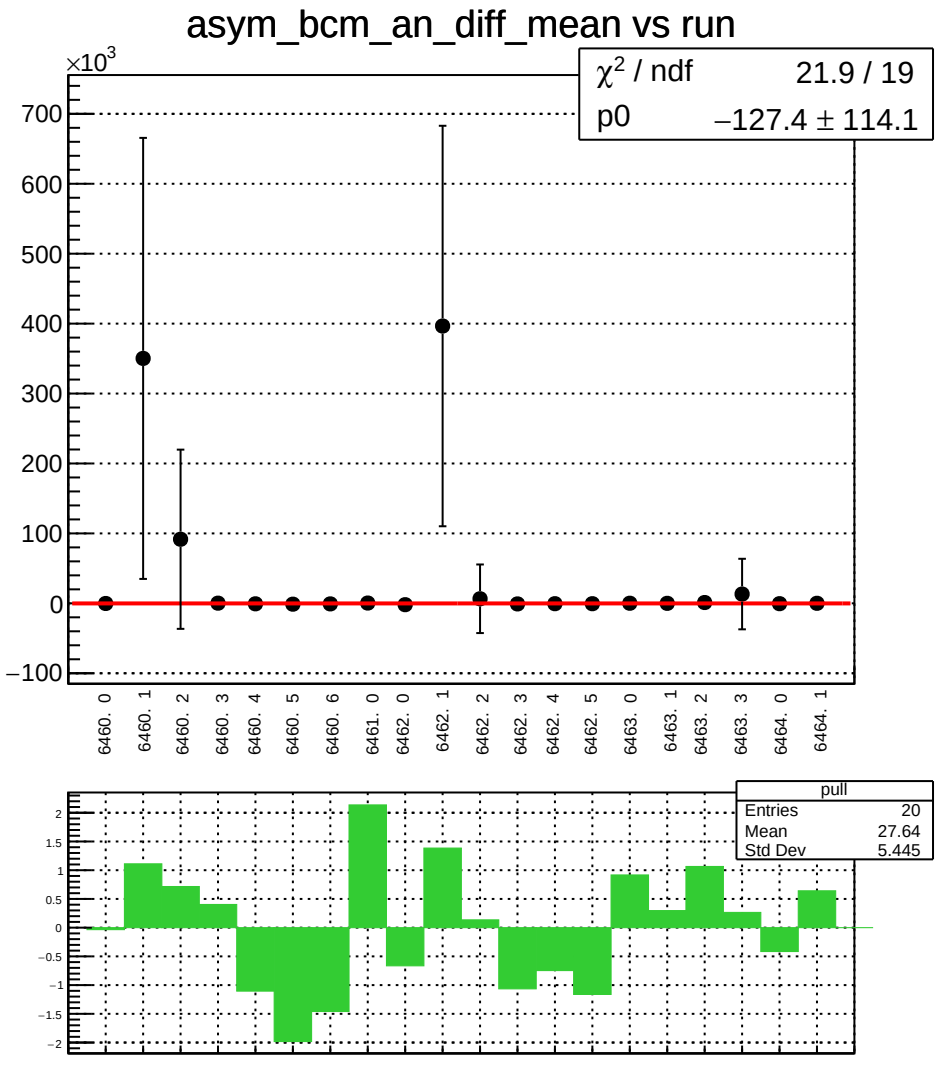

pull1D
Entries 20
Mean −0.8159
Std Dev 3.593
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

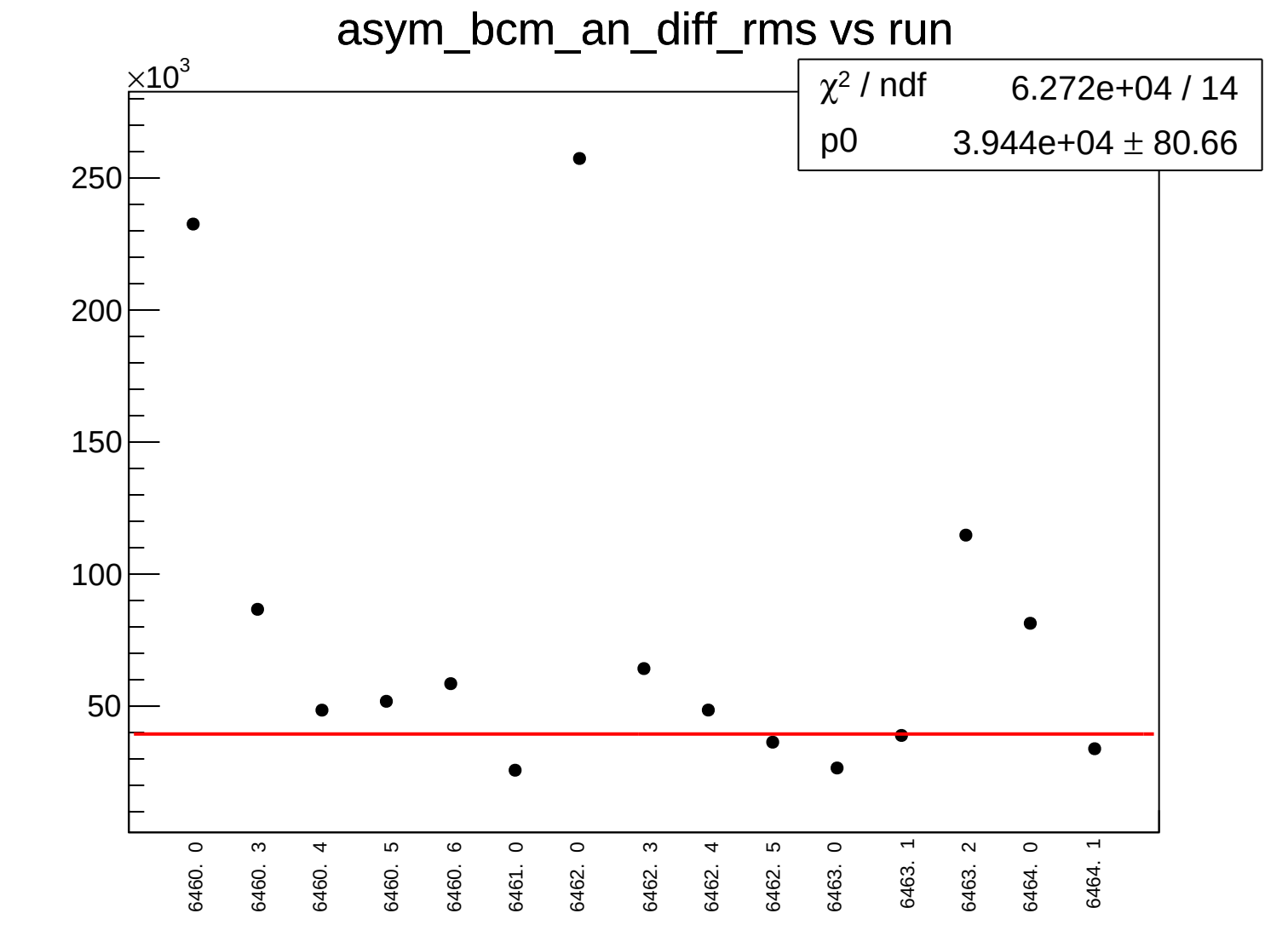

yield_bpm2i02WS_rms vs run
χ² / ndf 1745 / 19
p0 178.1 ± 0.2804
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

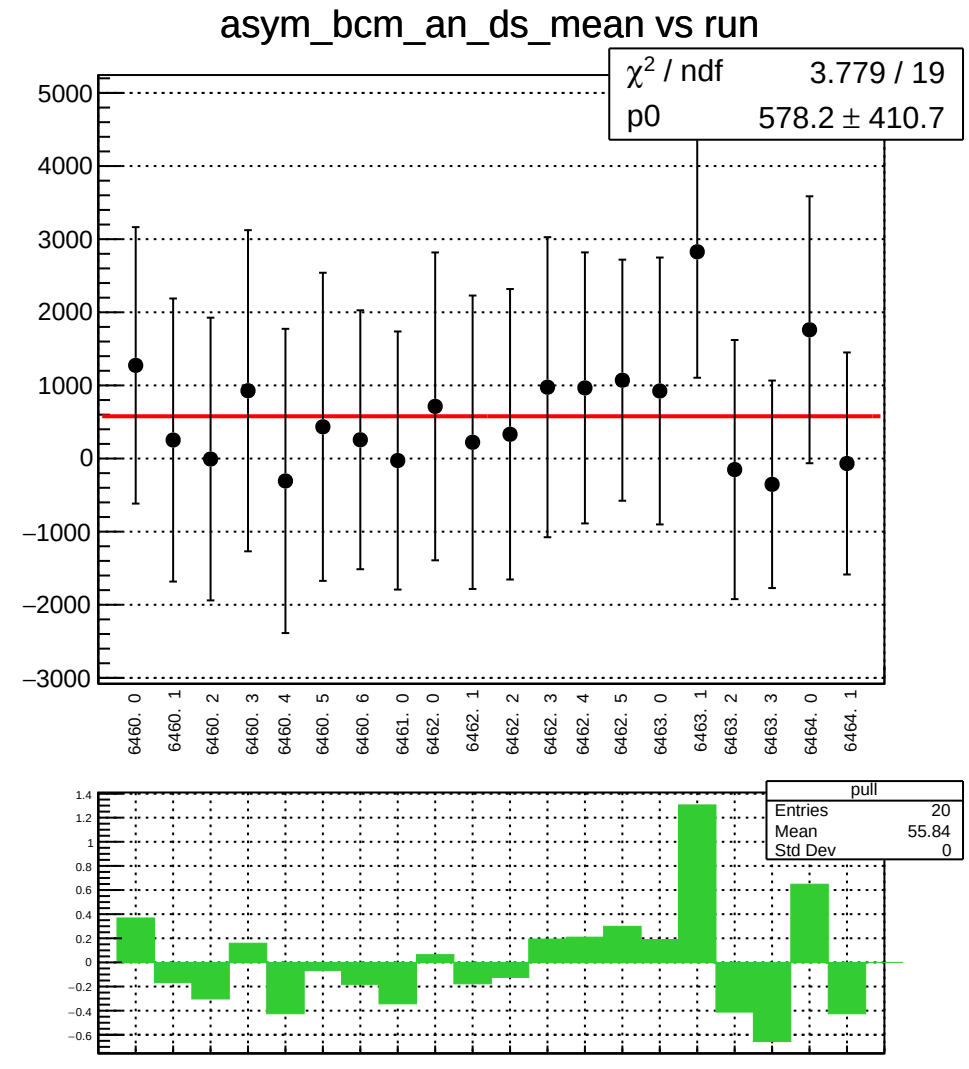

asym_bcm_target_mean vs run
χ² / ndf 4.156 / 19
p0 524.4 ± 413
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 81.92
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

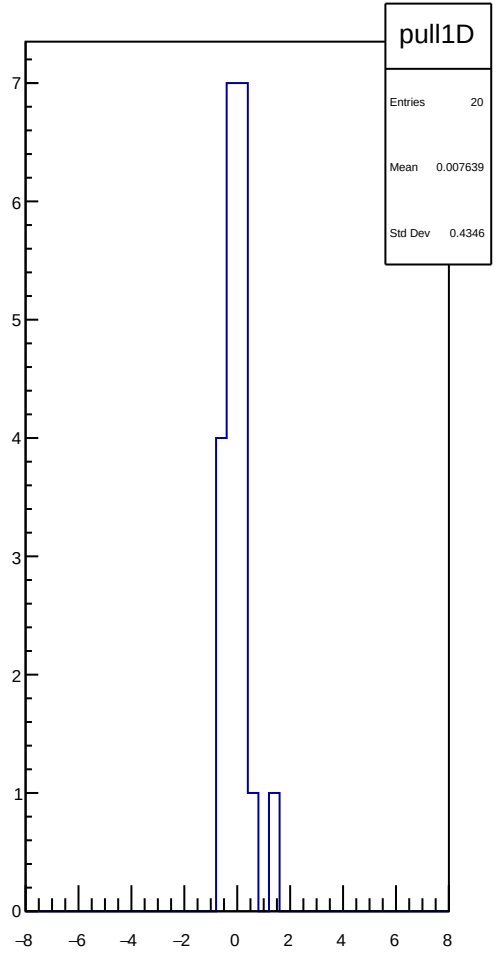

pull1D
Entries 20
Mean 0.008119
Std Dev 0.4558
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

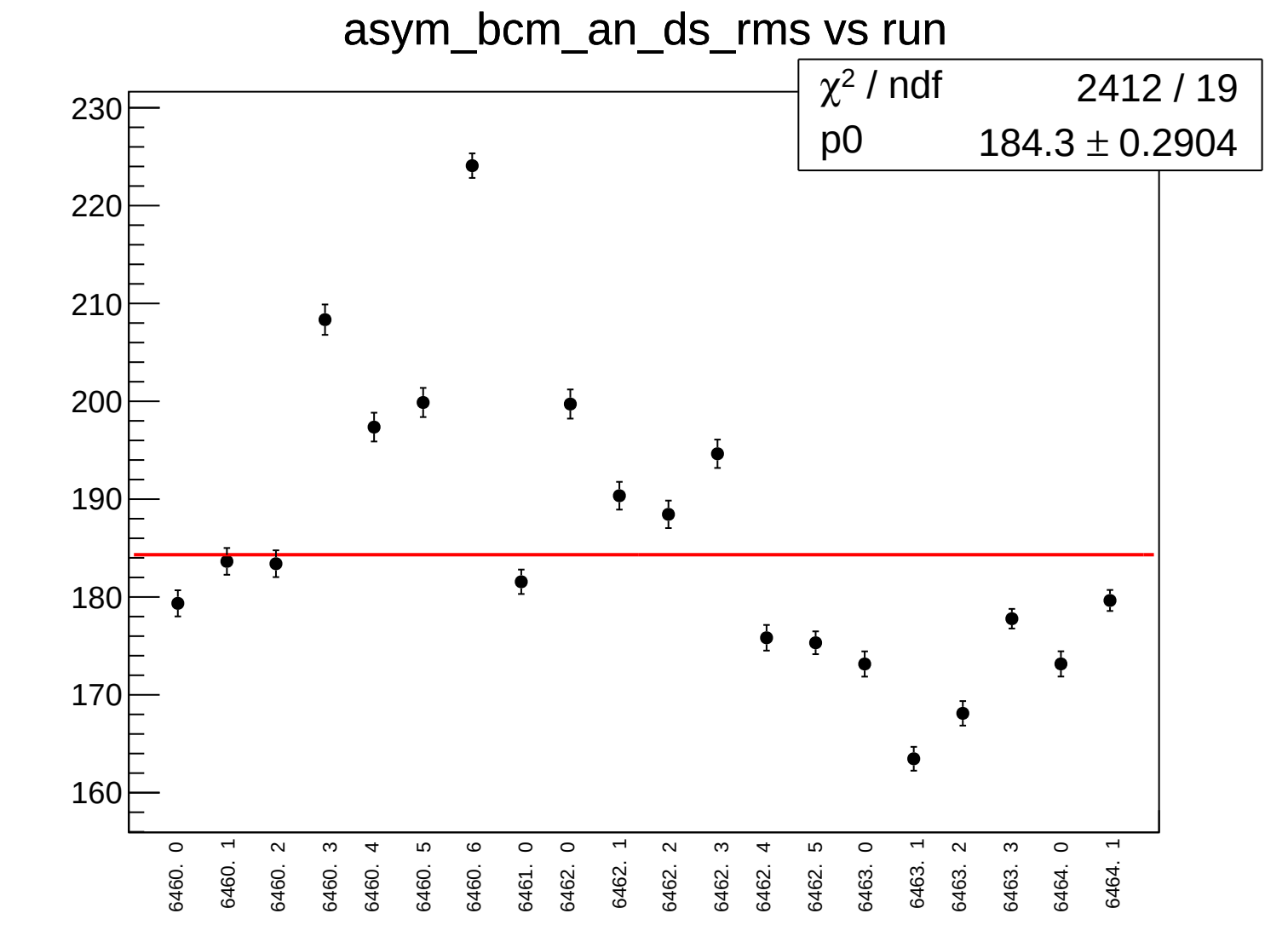

asym_bcm_target_rms vs run
χ² / ndf 2423 / 19
p0 185.4 ± 0.2921
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

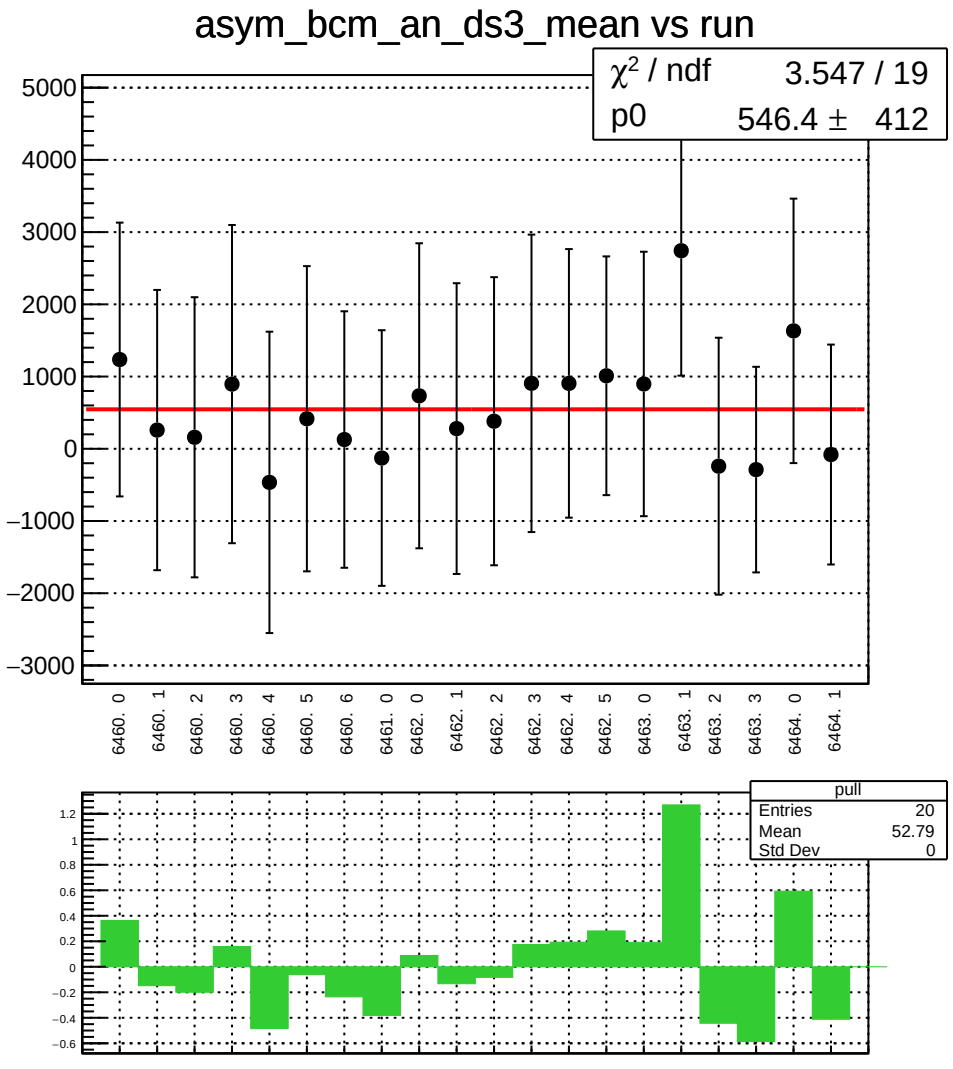

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 21.9 / 19
p0 −127.4 ± 114.1
700
600
500
400
300
200
100
0
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.64
Std Dev 5.445
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.0219
Std Dev 1.046
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

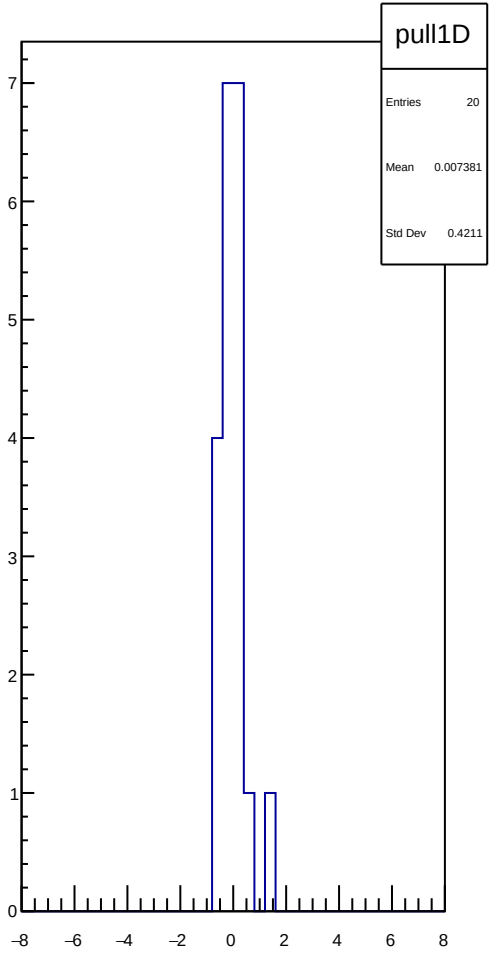

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 6.272e+04 / 14
p0 3.944e+04 ± 80.66
250
200
150
100
50
6460. 0
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6464. 0
6464. 1

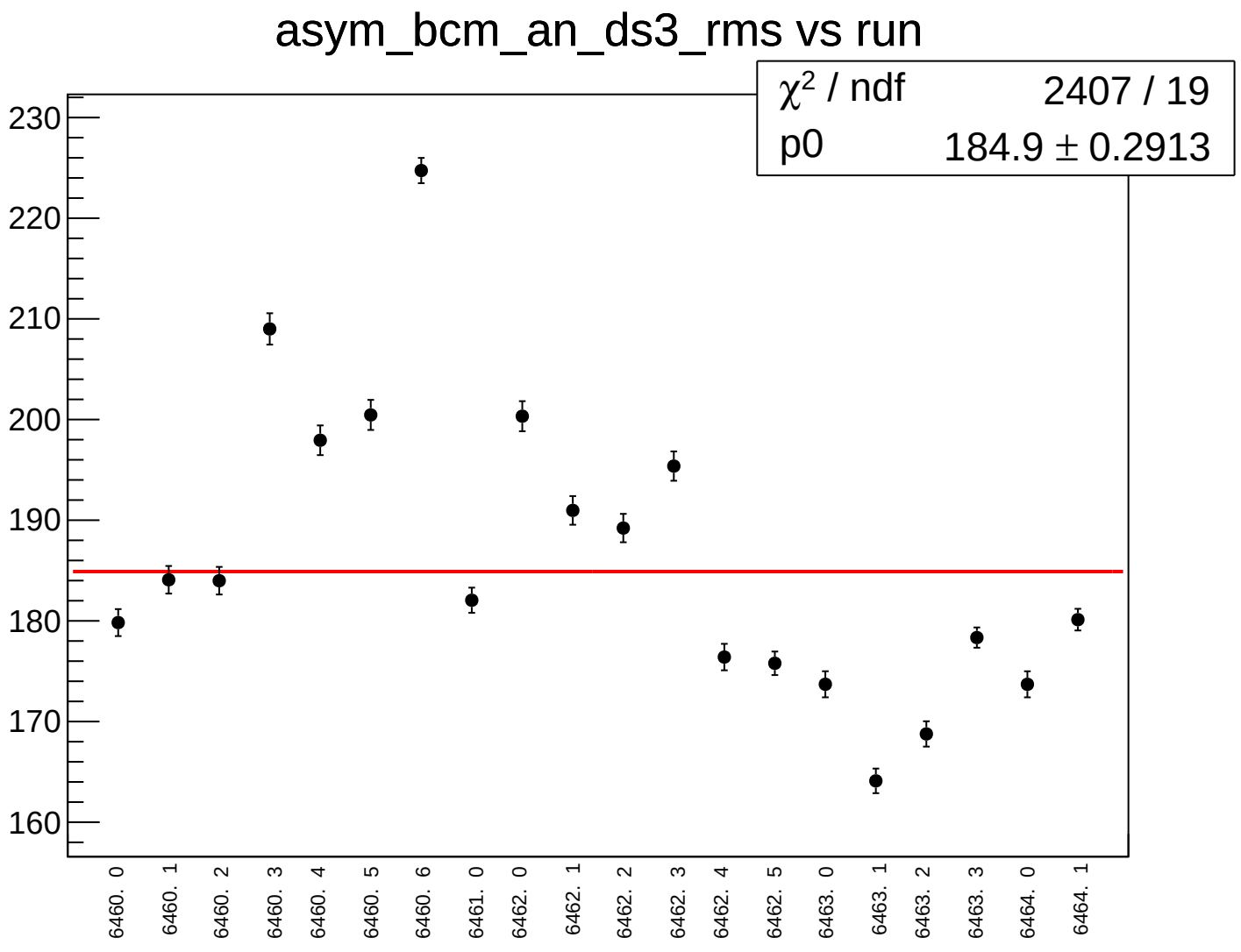

asym_bcm_an_ds_mean vs run
χ² / ndf 3.779 / 19
p0 578.2 ± 410.7
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 55.84
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

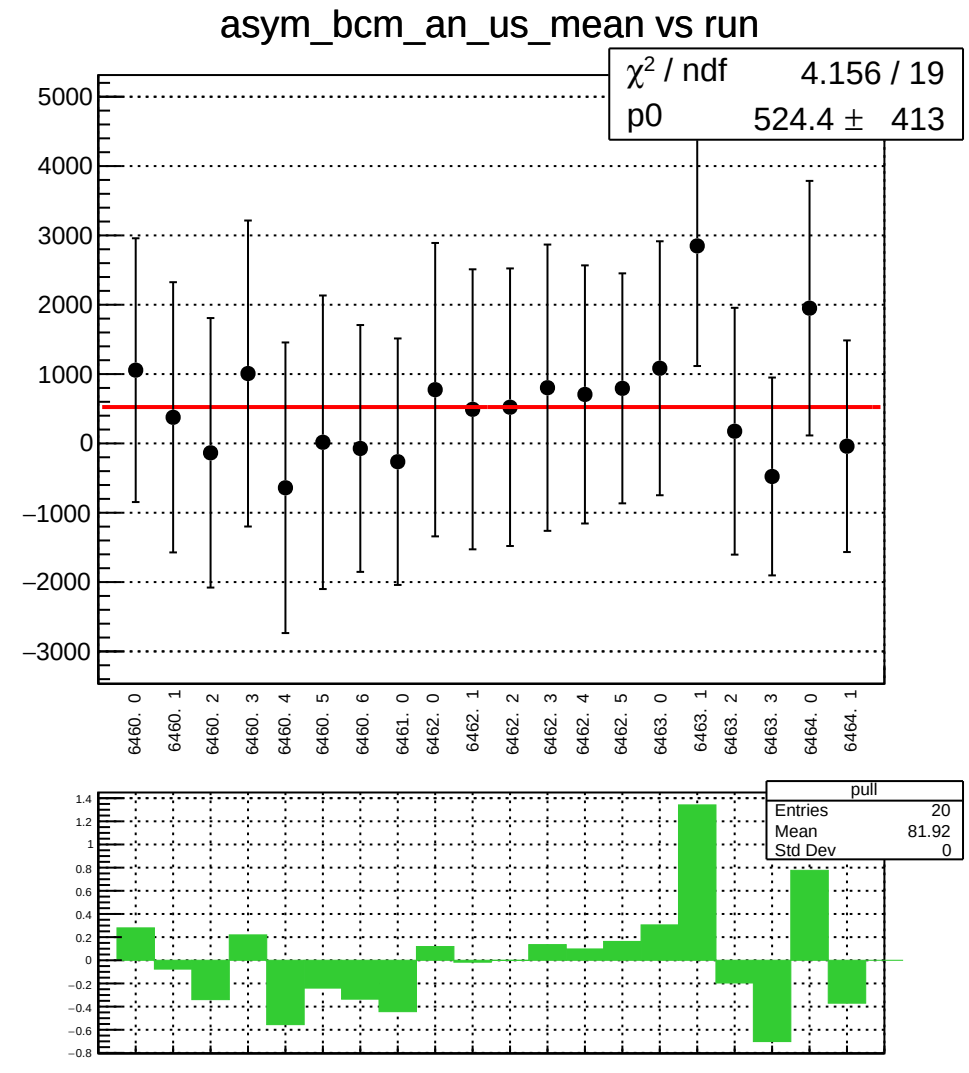

pull1D
Entries 20
Mean 0.007639
Std Dev 0.4346
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

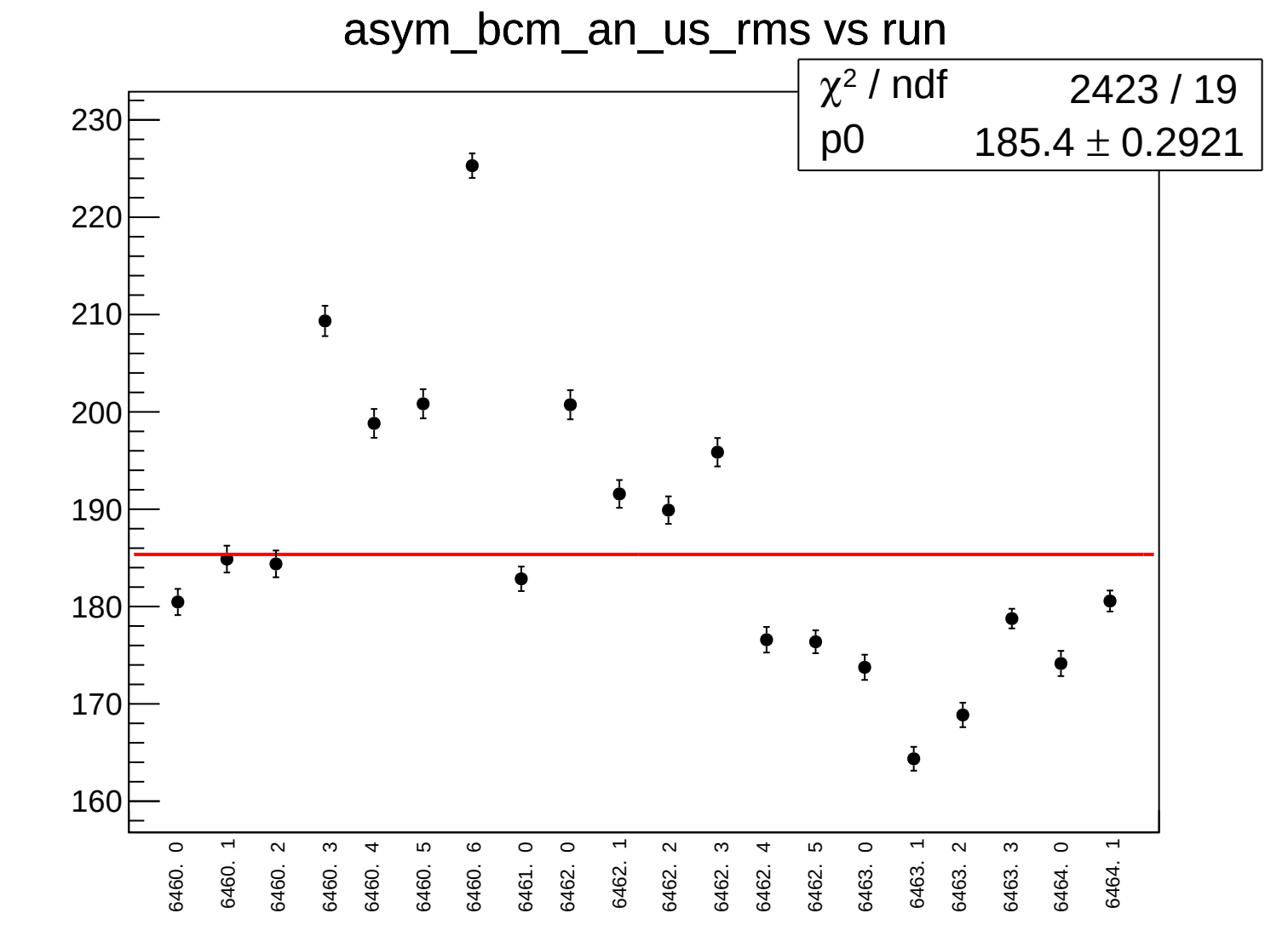

asym_bcm_an_ds_rms vs run
χ² / ndf 2412 / 19
p0 184.3 ± 0.2904
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

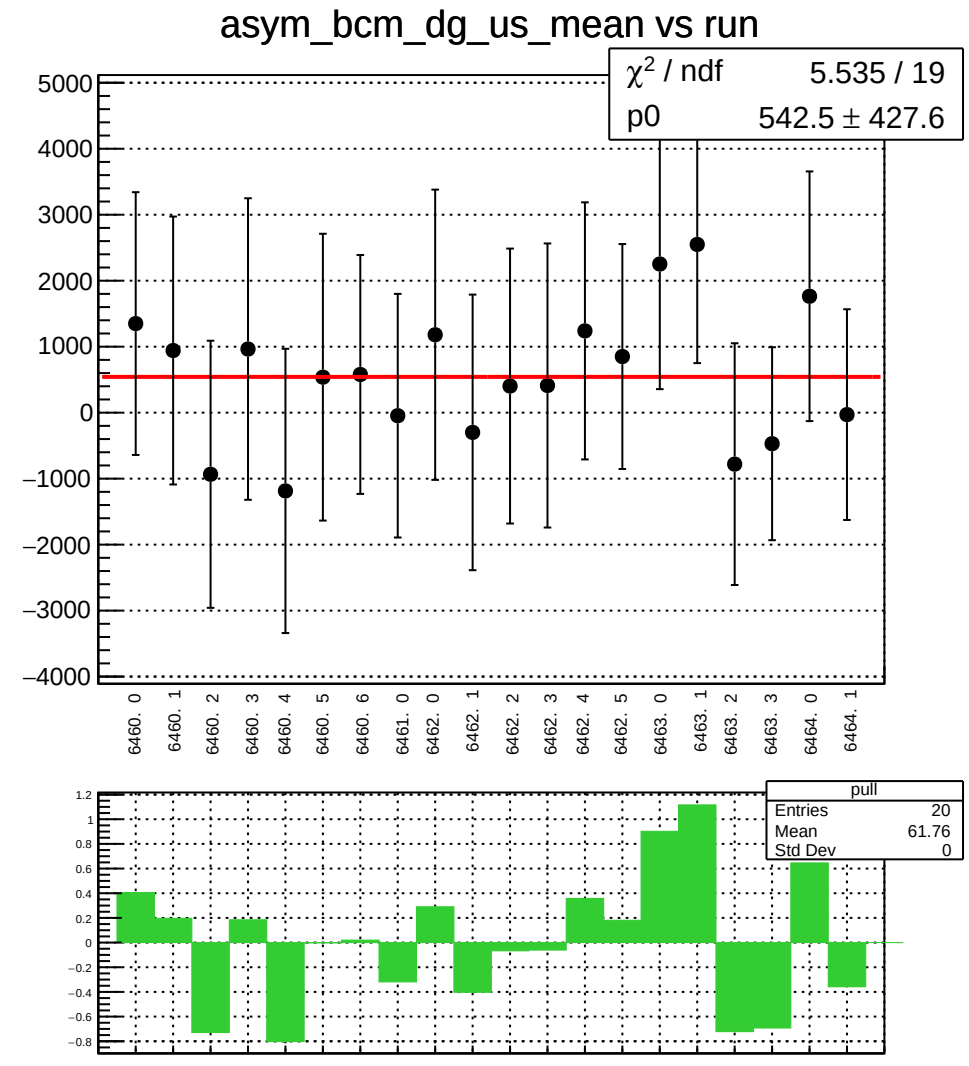

asym_bcm_an_ds3_mean vs run
χ² / ndf 3.547 / 19
p0 546.4 ± 412
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 52.79
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

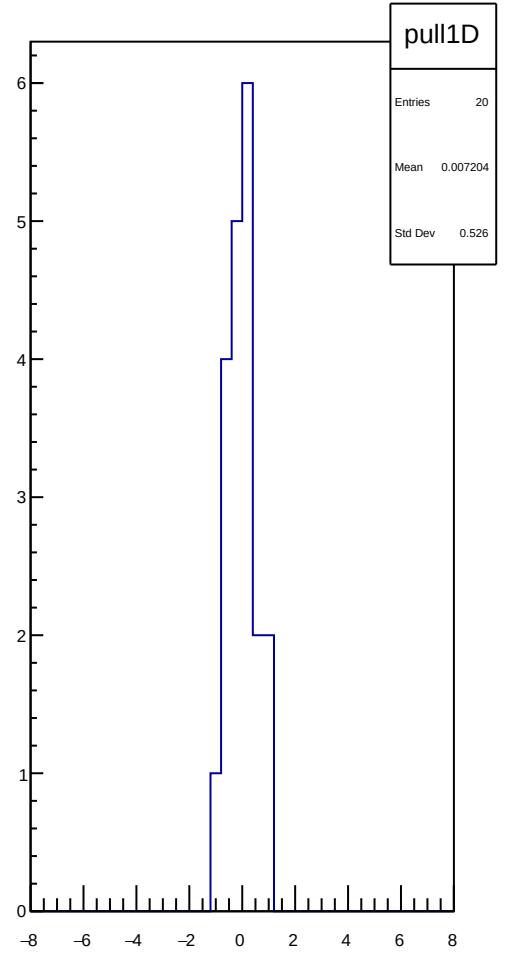

pull1D
Entries 20
Mean 0.007381
Std Dev 0.4211
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

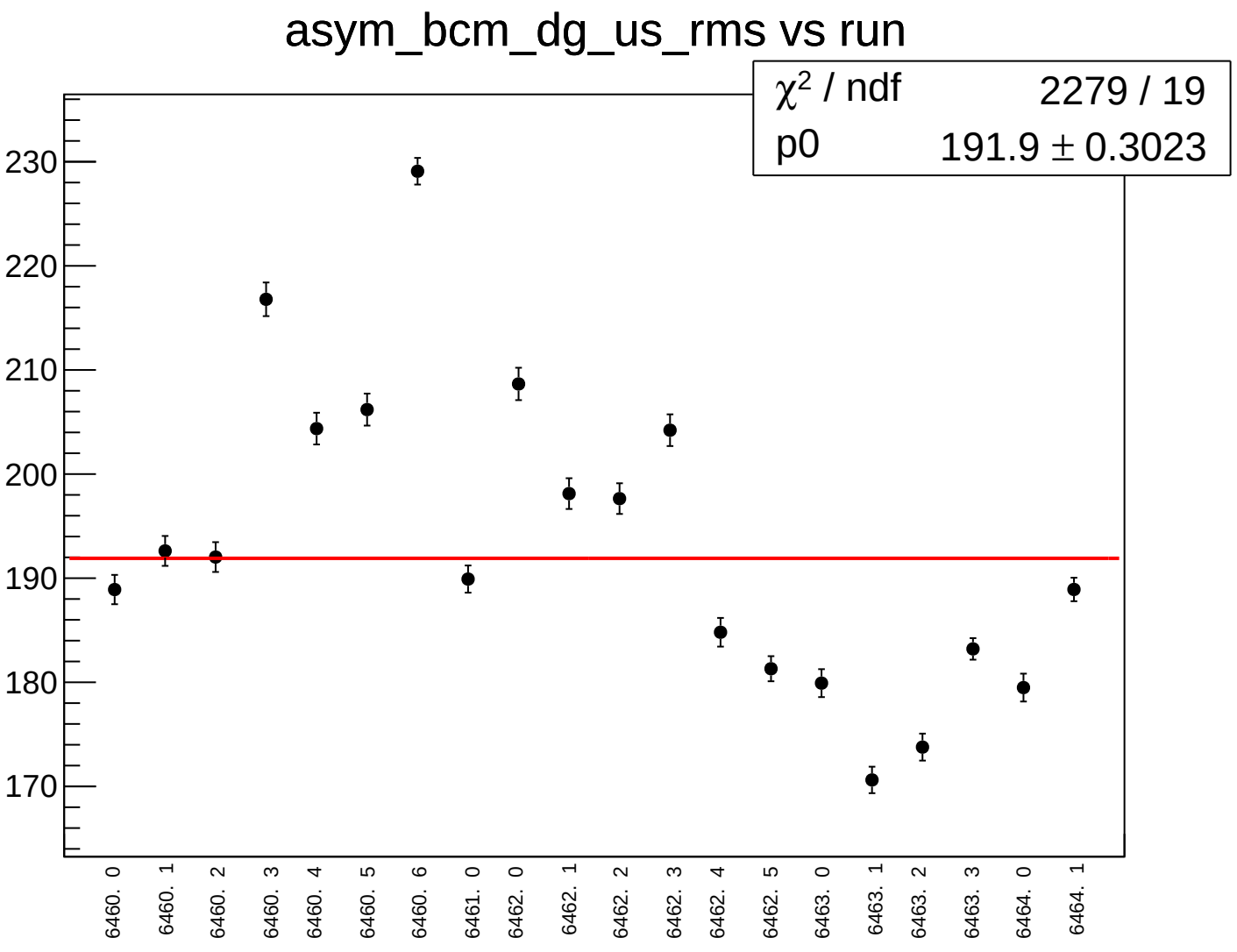

asym_bcm_an_ds3_rms vs run
χ² / ndf 2407 / 19
p0 184.9 ± 0.2913
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

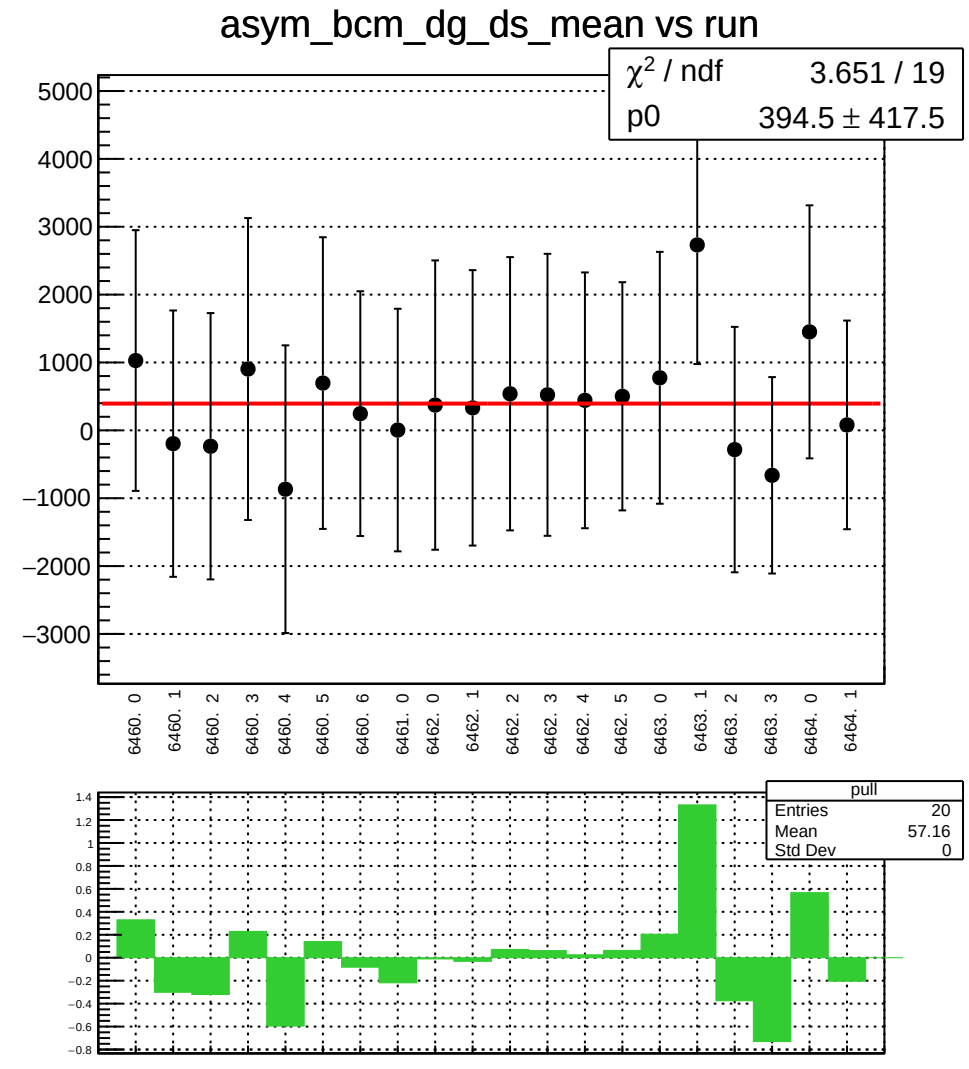

asym_bcm_an_us_mean vs run
χ² / ndf 4.156 / 19
p0 524.4 ± 413
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 81.92
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.008119
Std Dev 0.4558
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

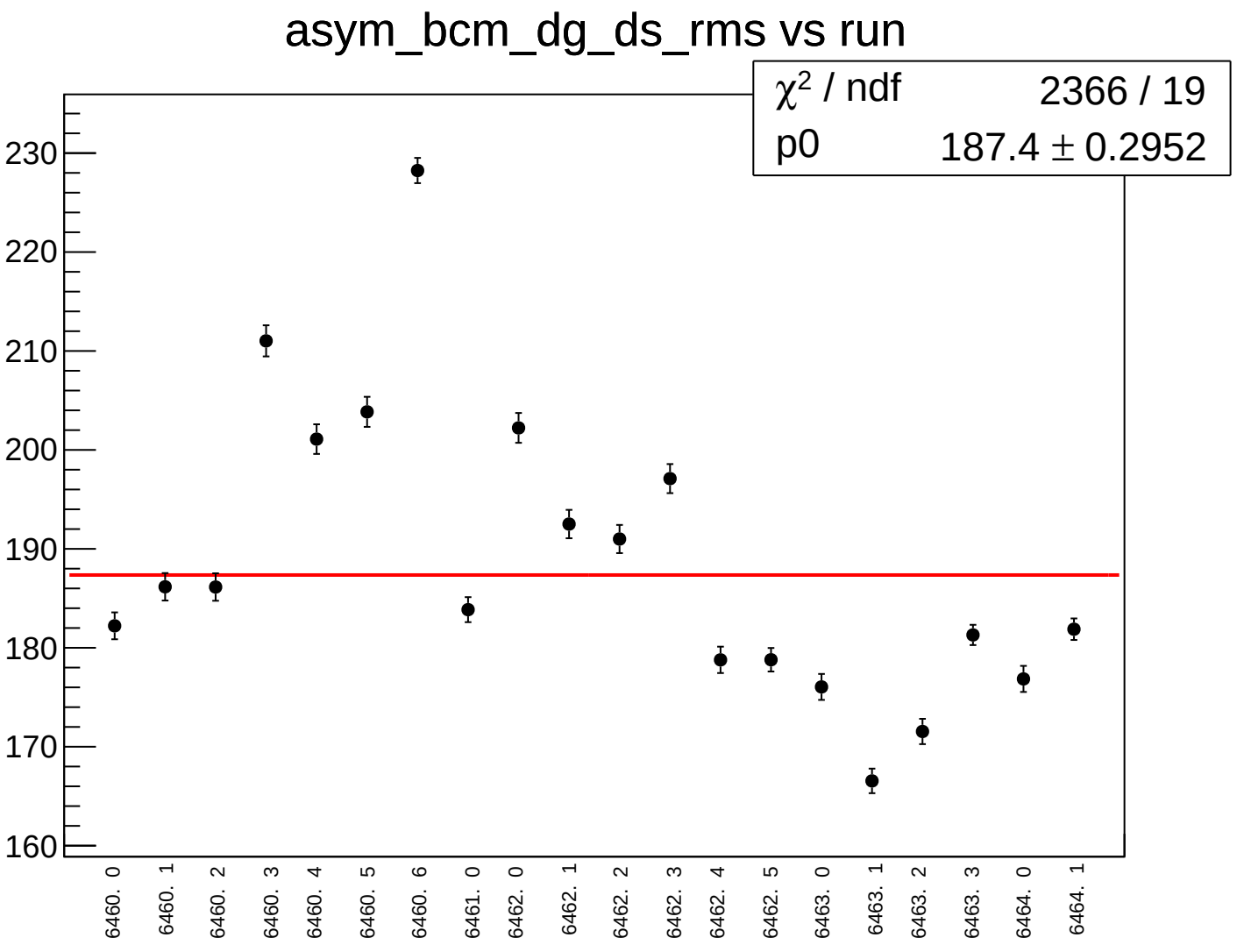

asym_bcm_an_us_rms vs run
χ² / ndf 2423 / 19
p0 185.4 ± 0.2921
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

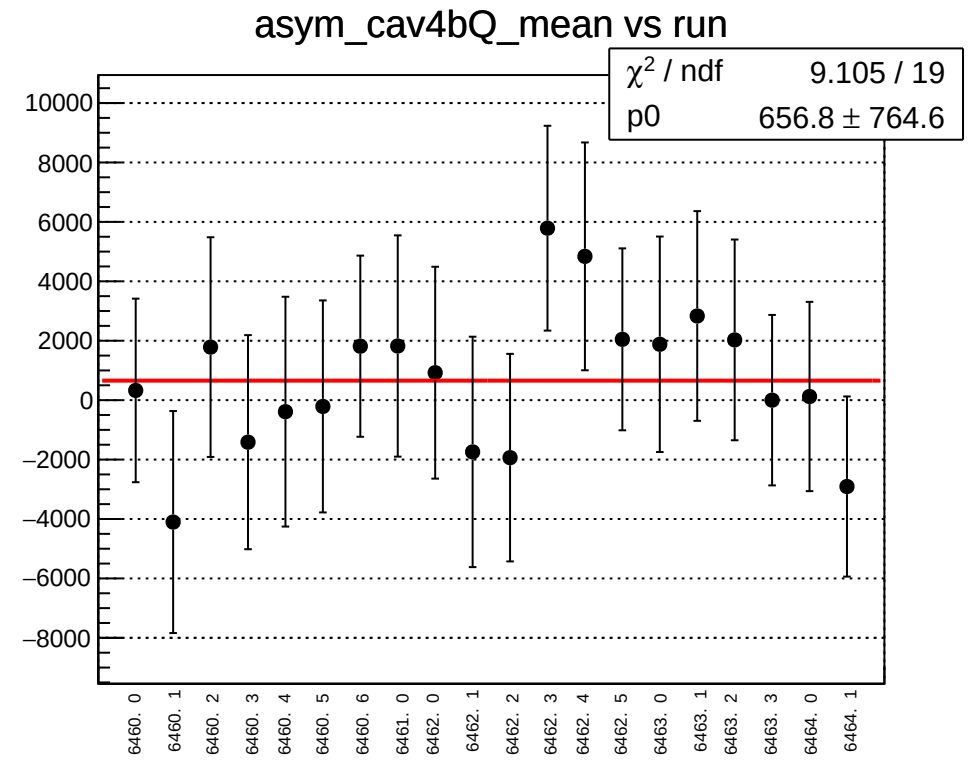

asym_bcm_dg_us_mean vs run
χ² / ndf 5.535 / 19
p0 542.5 ± 427.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 61.76
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

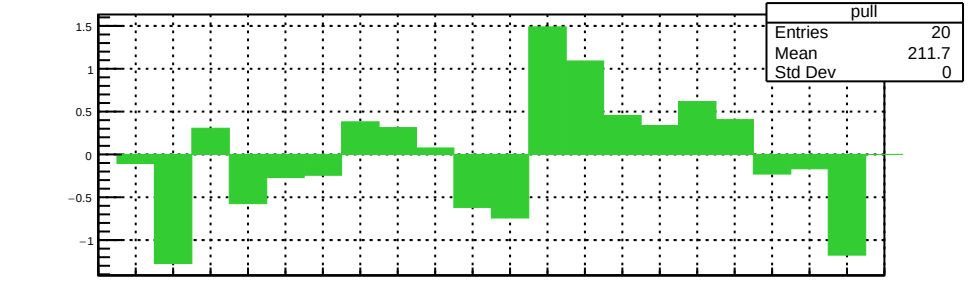

pull1D
Entries 20
Mean 0.007204
Std Dev 0.526
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

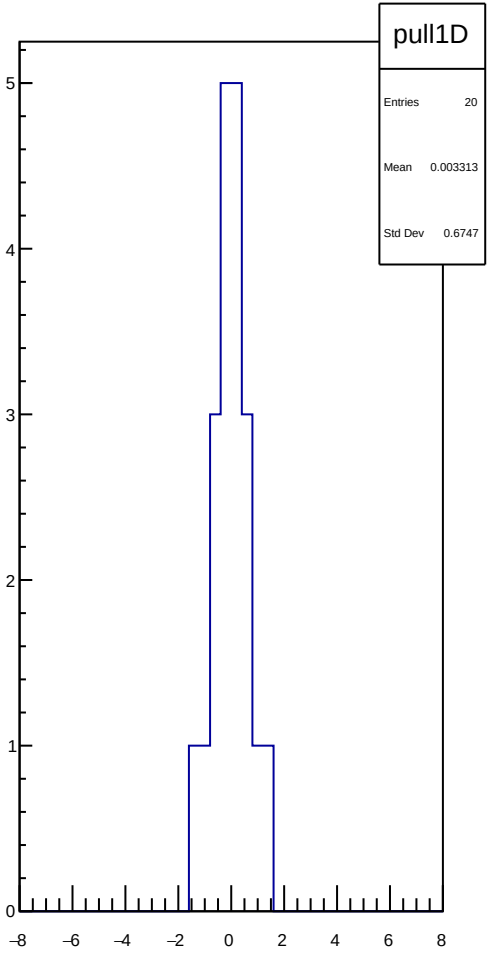

asym_bcm_dg_us_rms vs run
χ² / ndf 2279 / 19
p0 191.9 ± 0.3023
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

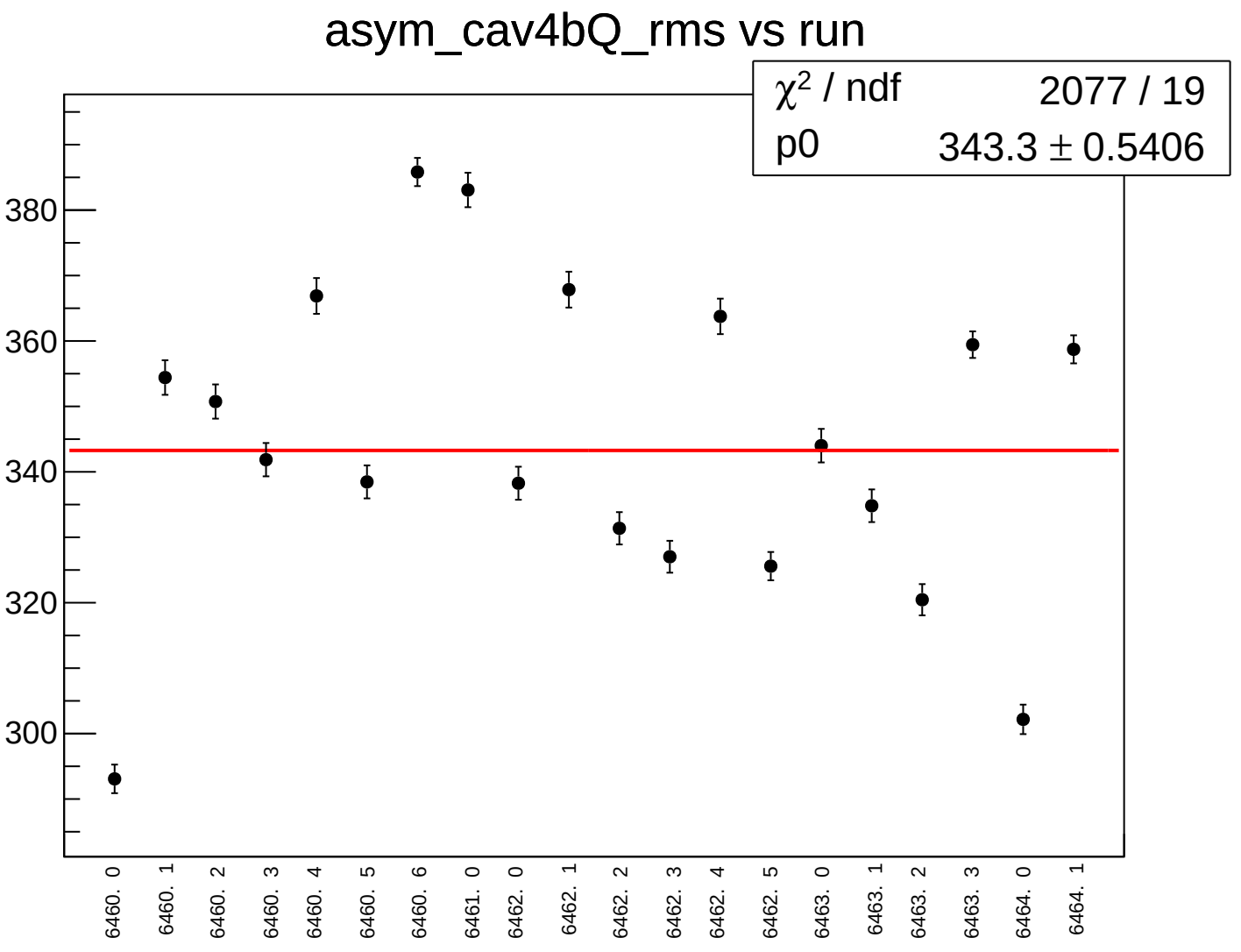

asym_bcm_dg_ds_mean vs run
χ² / ndf 3.651 / 19
p0 394.5 ± 417.5
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 57.16
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.007915
Std Dev 0.4272
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

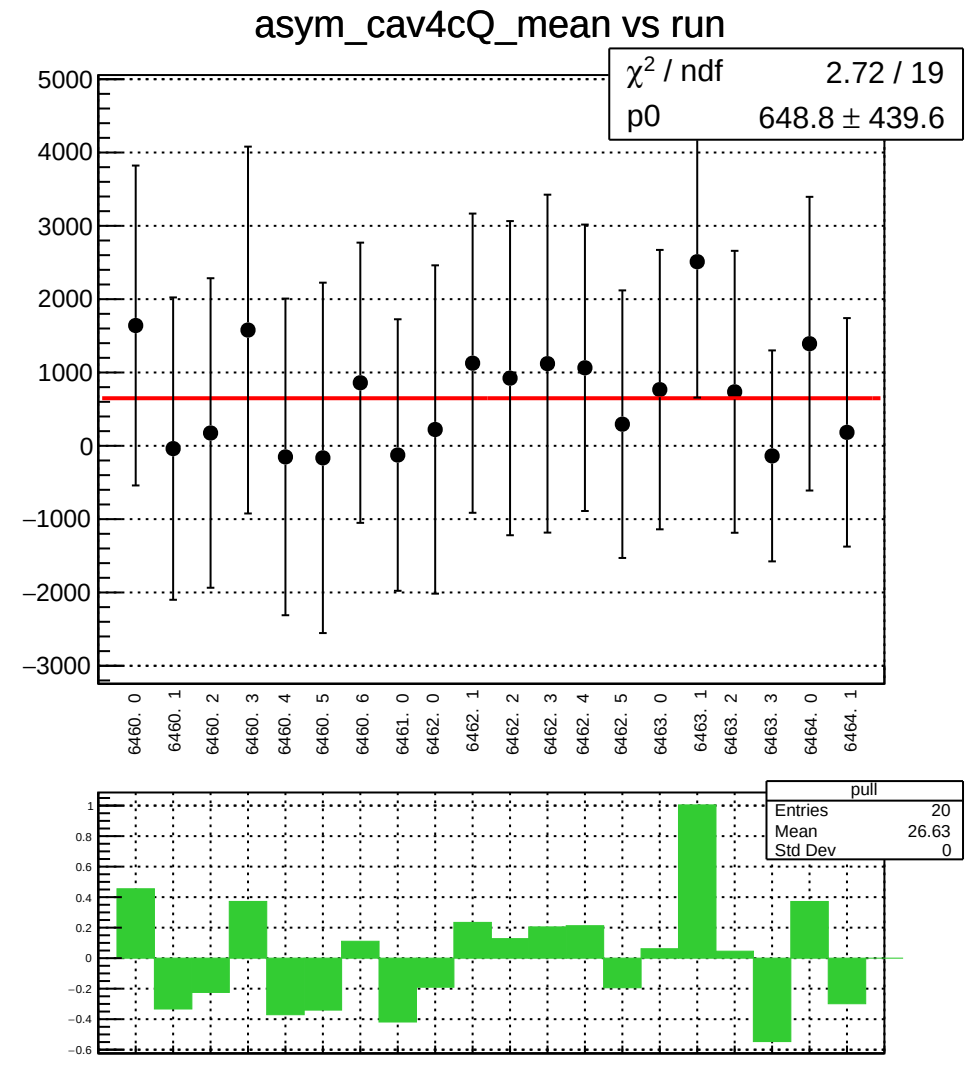

asym_bcm_dg_ds_rms vs run
χ² / ndf 2366 / 19
p0 187.4 ± 0.2952
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

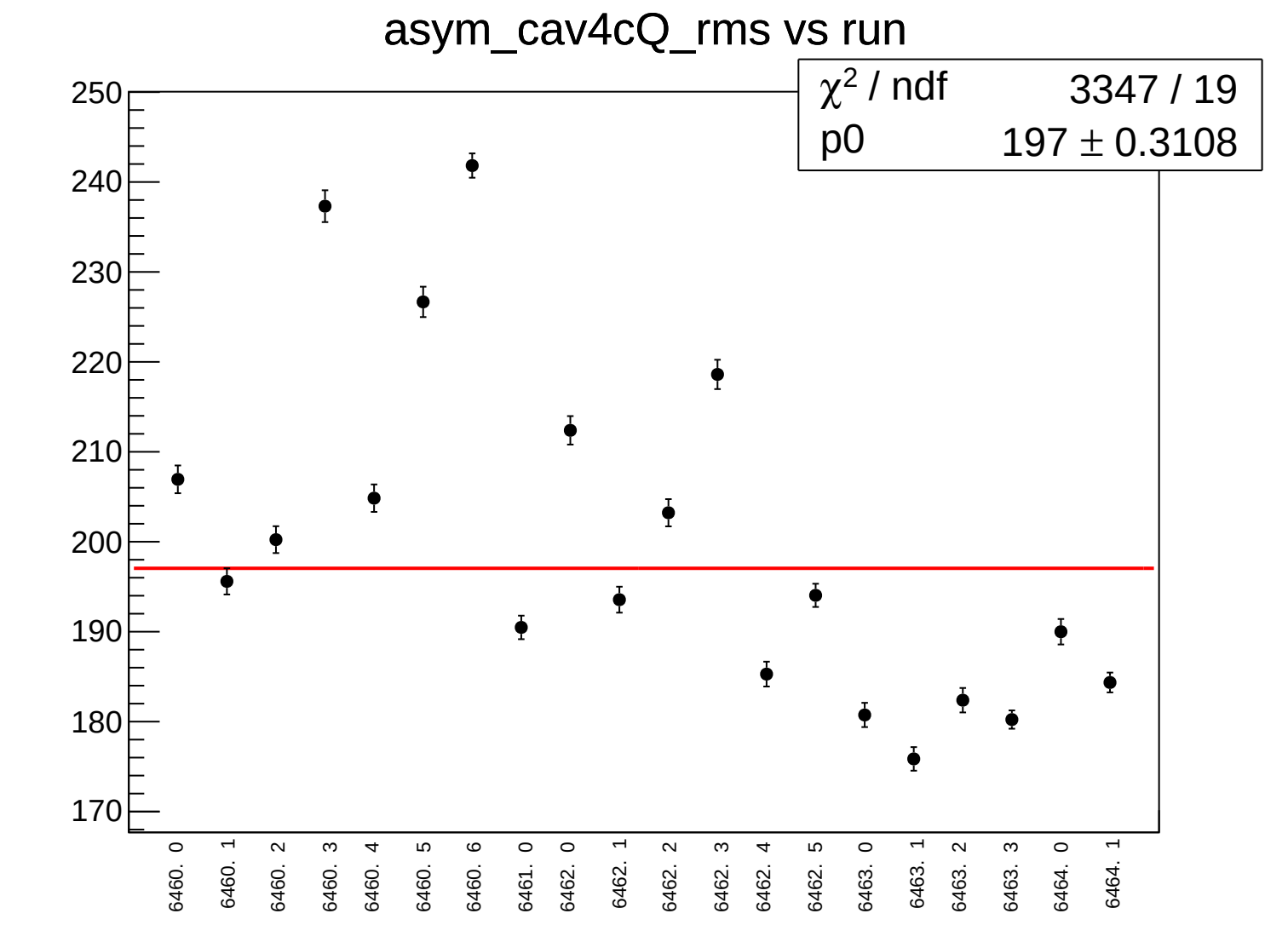

asym_cav4bQ_mean vs run
χ² / ndf 9.105 / 19
p0 656.8 ± 764.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

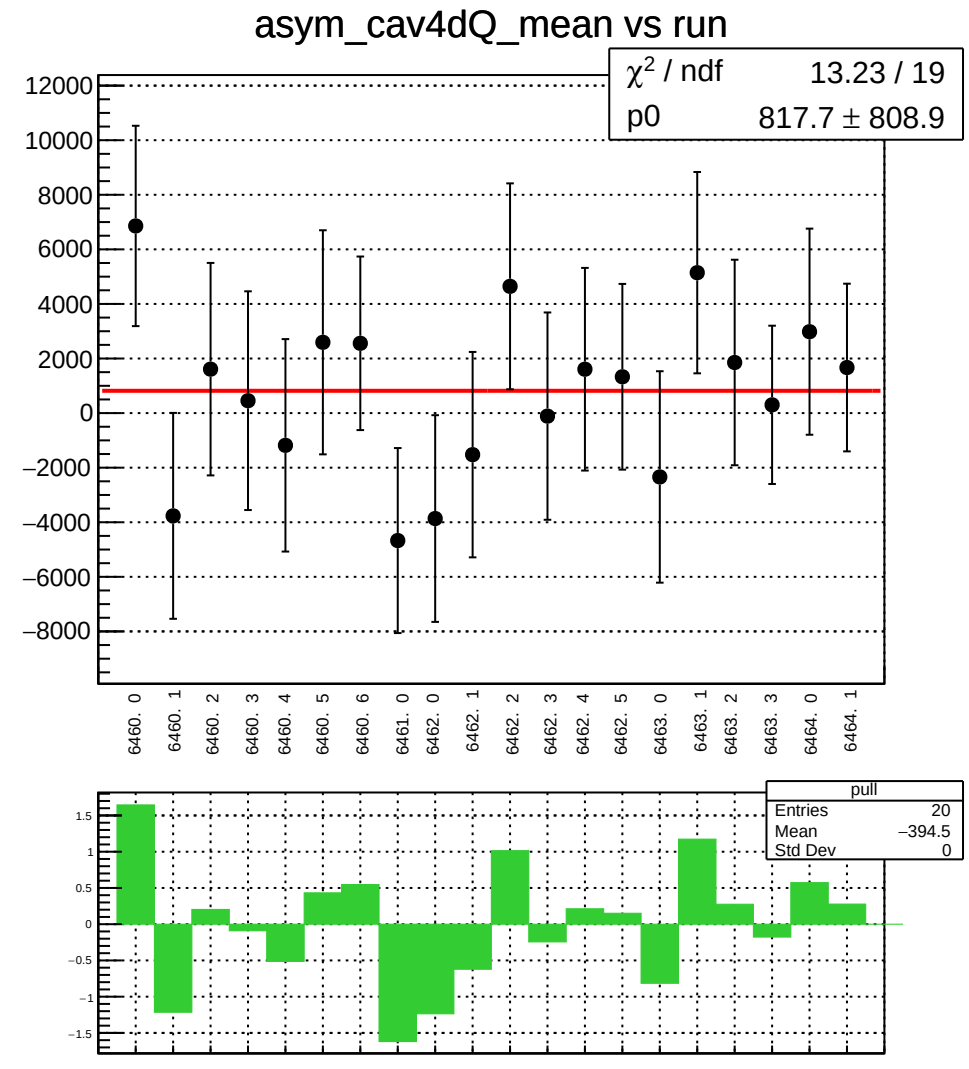

pull
Entries 20
Mean 211.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

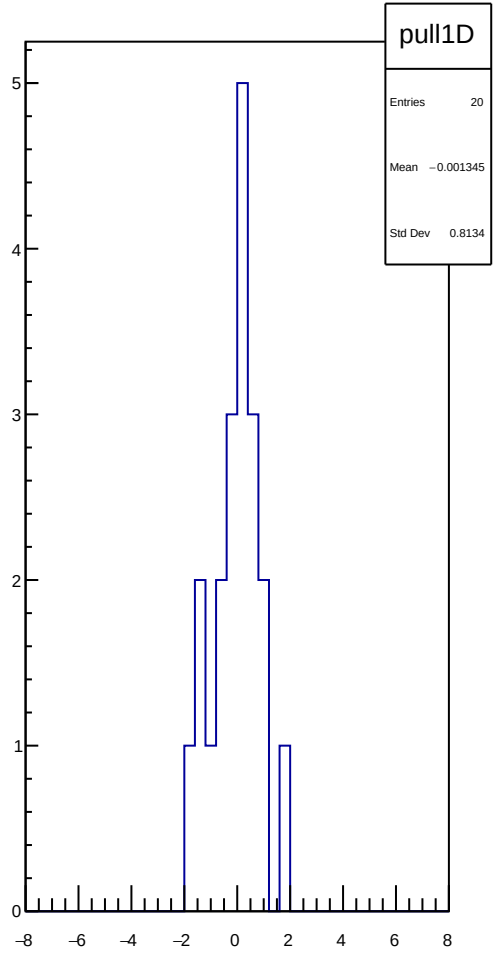

pull1D
Entries 20
Mean 0.003313
Std Dev 0.6747
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

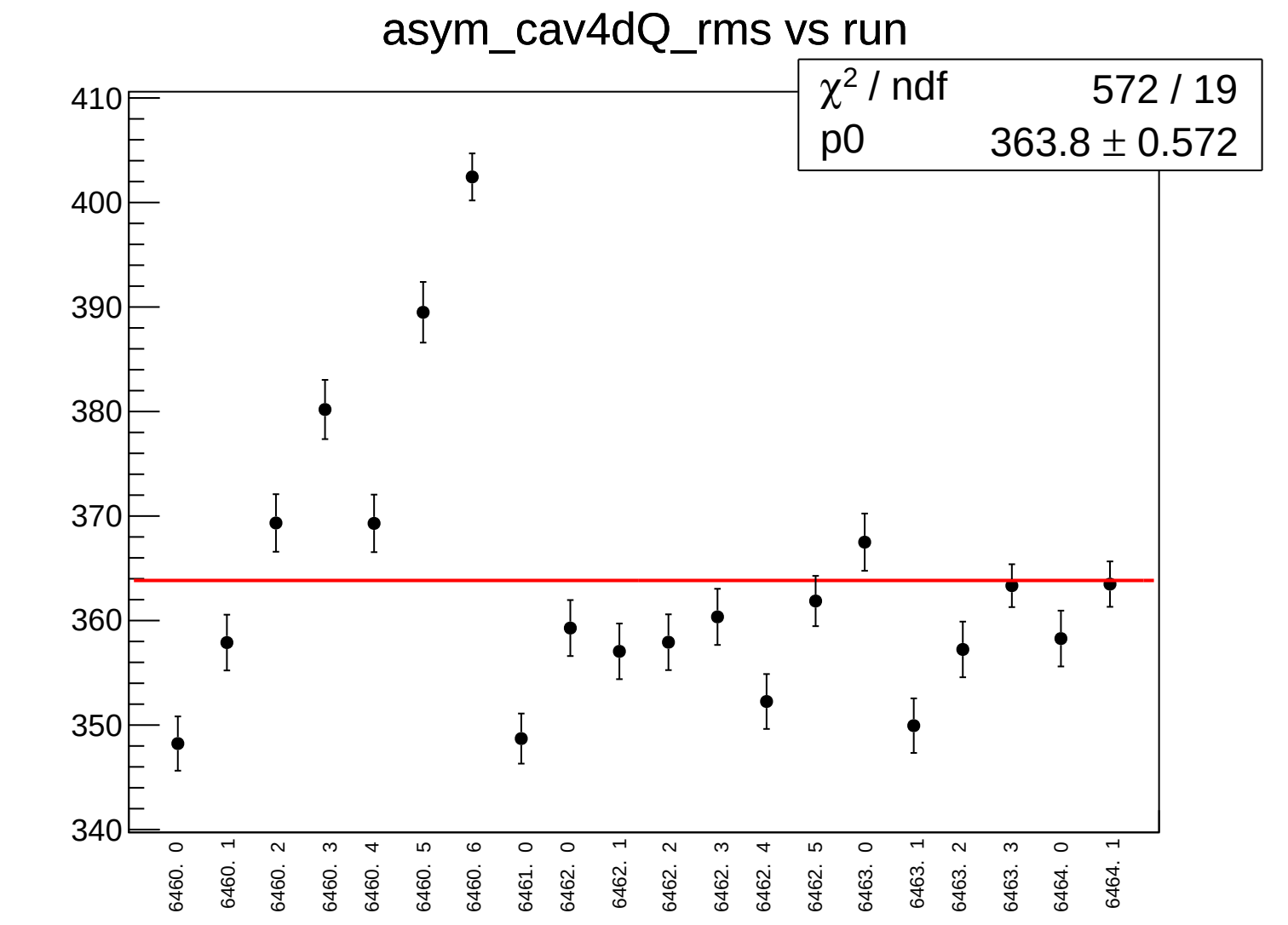

asym_cav4bQ_rms vs run
χ² / ndf 2077 / 19
p0 343.3 ± 0.5406
380
360
340
320
300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

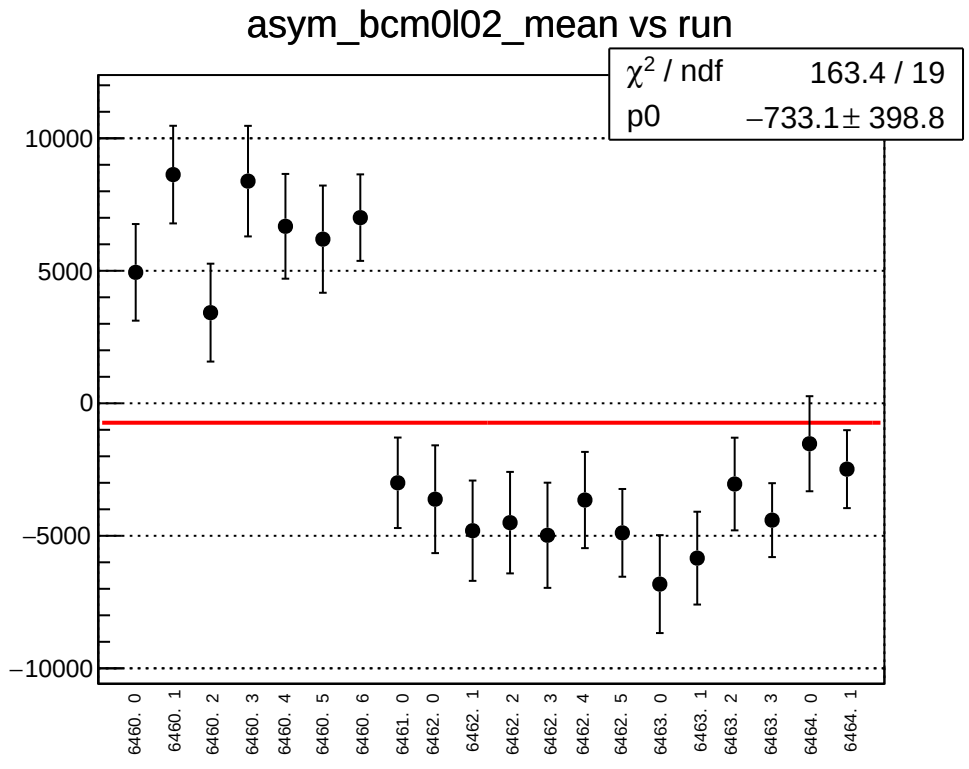

asym_cav4cQ_mean vs run
χ² / ndf 2.72 / 19
p0 648.8 ± 439.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.63
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.01419
Std Dev 0.3685
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

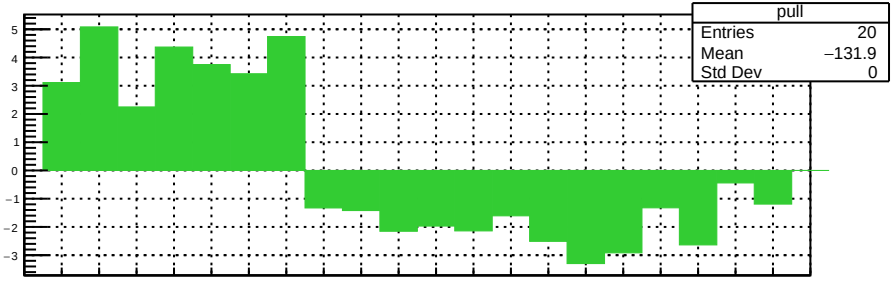

asym_cav4cQ_rms vs run
χ² / ndf 3347 / 19
p0 197 ± 0.3108
250
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

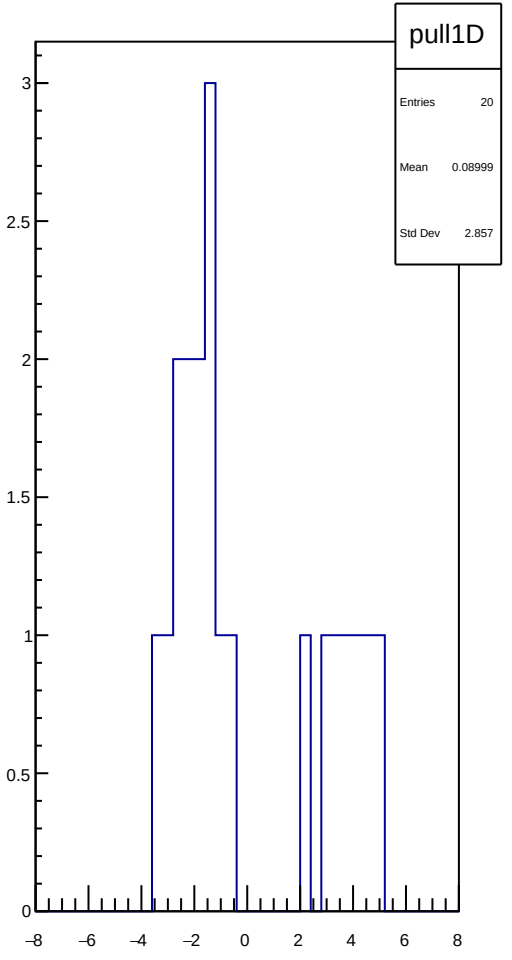

asym_cav4dQ_mean vs run
χ² / ndf 13.23 / 19
p0 817.7 ± 808.9
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −394.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

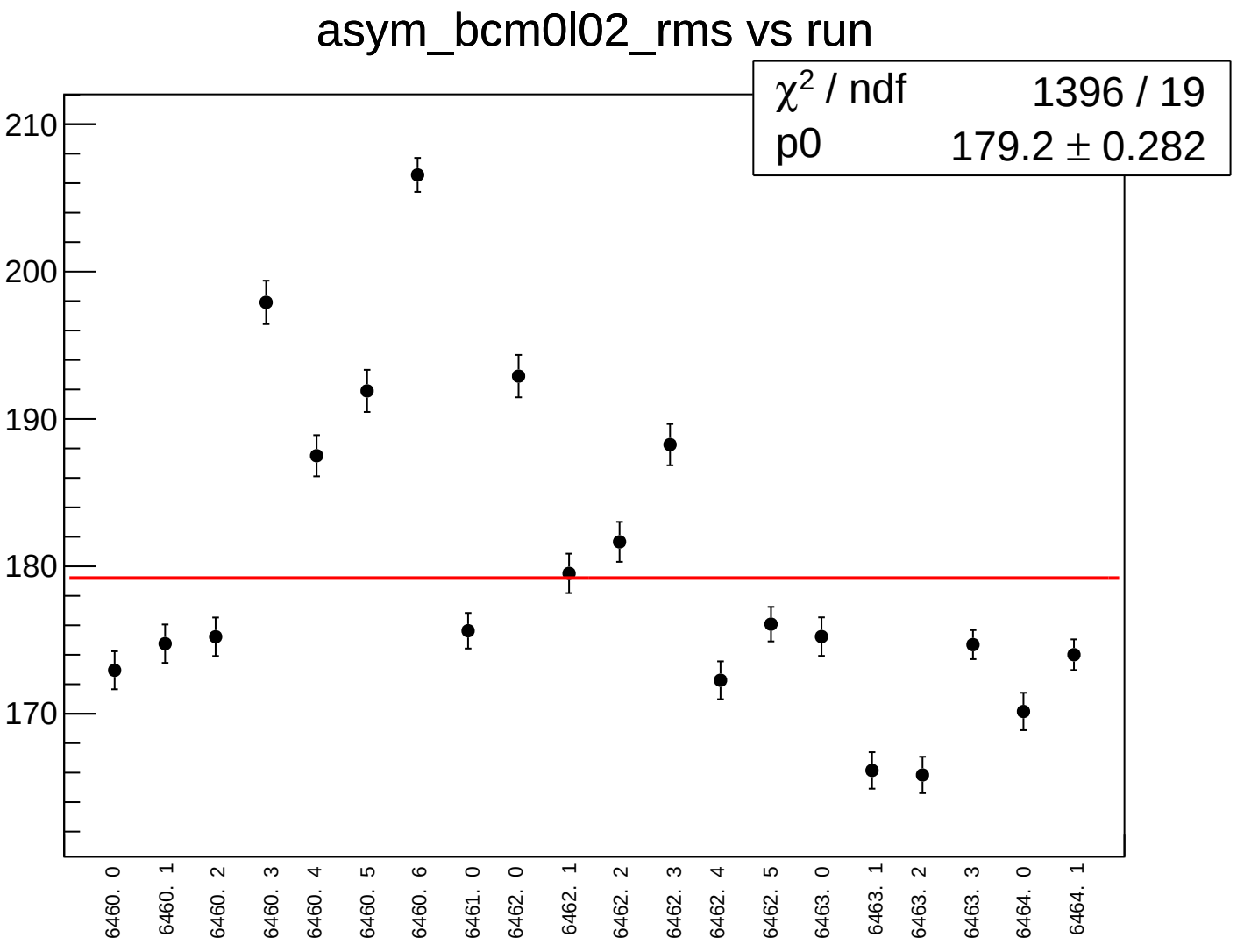

pull1D
Entries 20
Mean −0.001345
Std Dev 0.8134
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

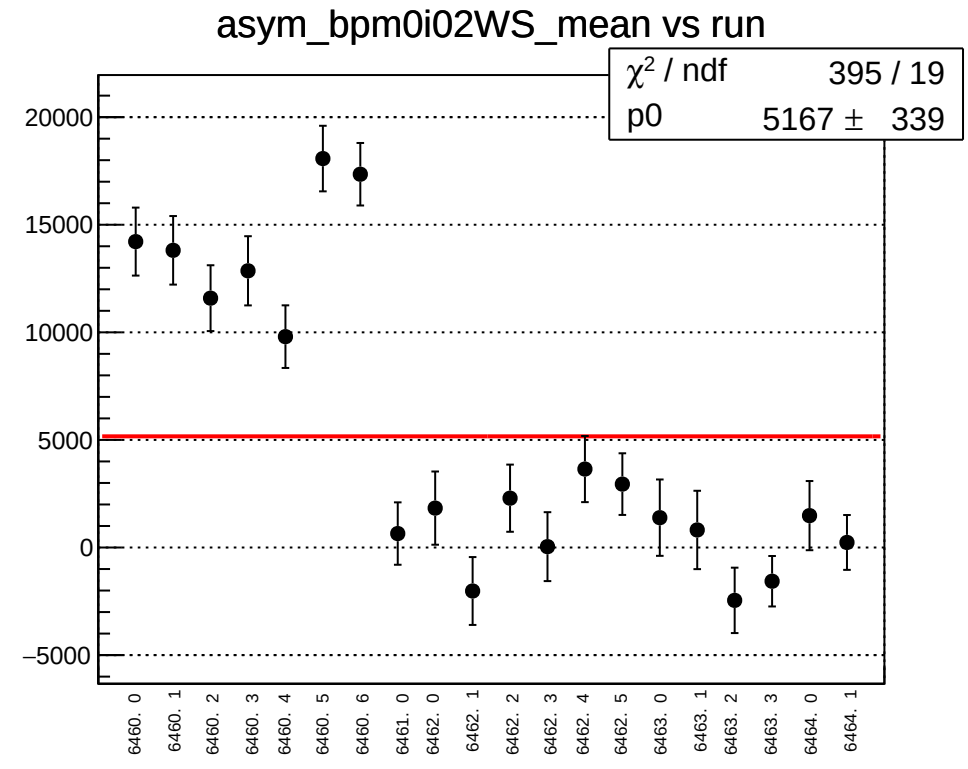

asym_cav4dQ_rms vs run
χ² / ndf 572 / 19
p0 363.8 ± 0.572
410
400
390
380
370
360
350
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

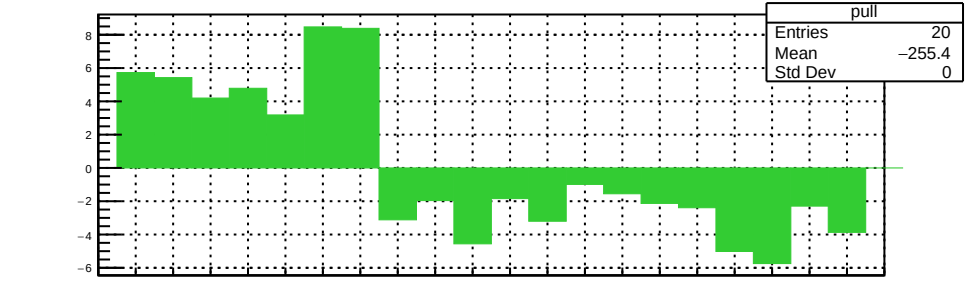

asym_bcm0l02_mean vs run
χ² / ndf 163.4 / 19
p0 −733.1± 398.8
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

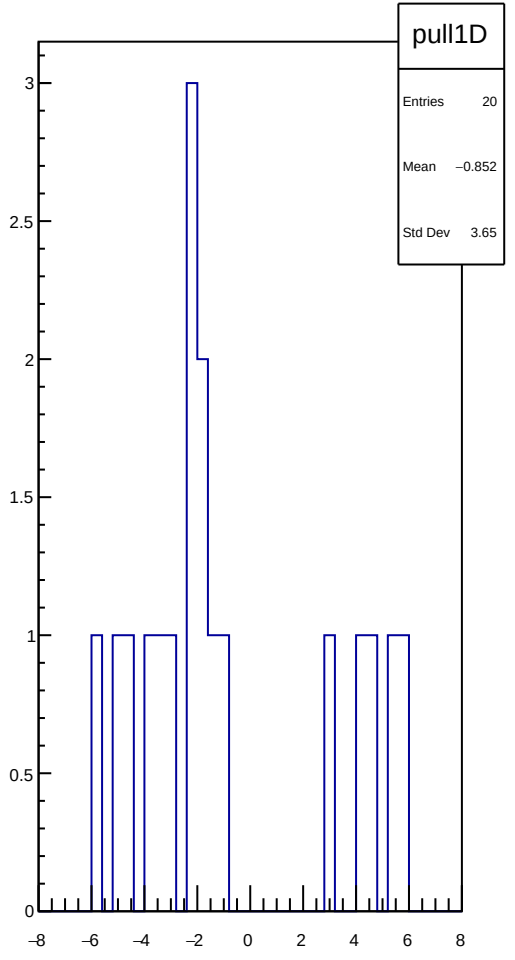

pull
Entries 20
Mean −131.9
Std Dev 0

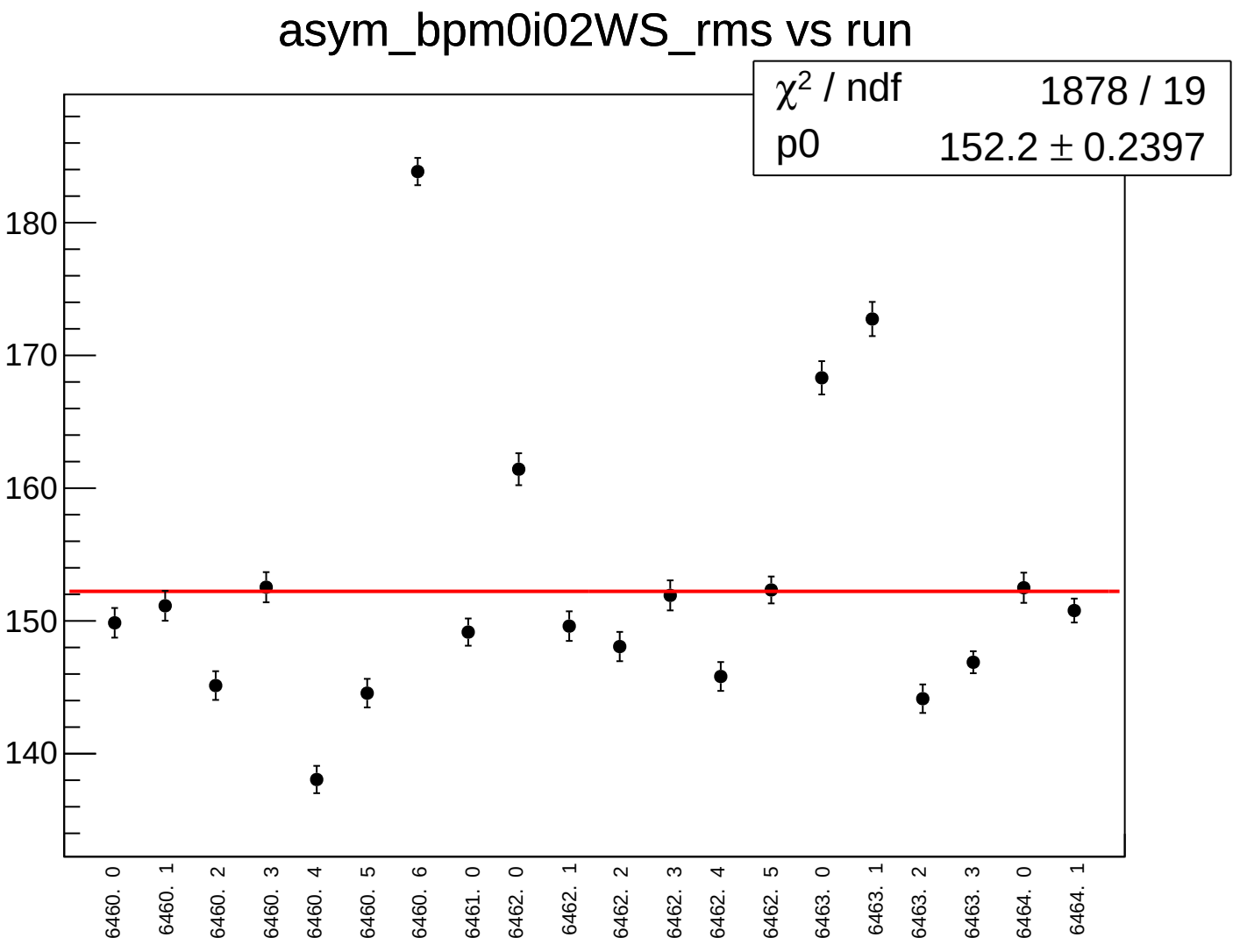

pull1D
Entries 20
Mean 0.08999
Std Dev 2.857

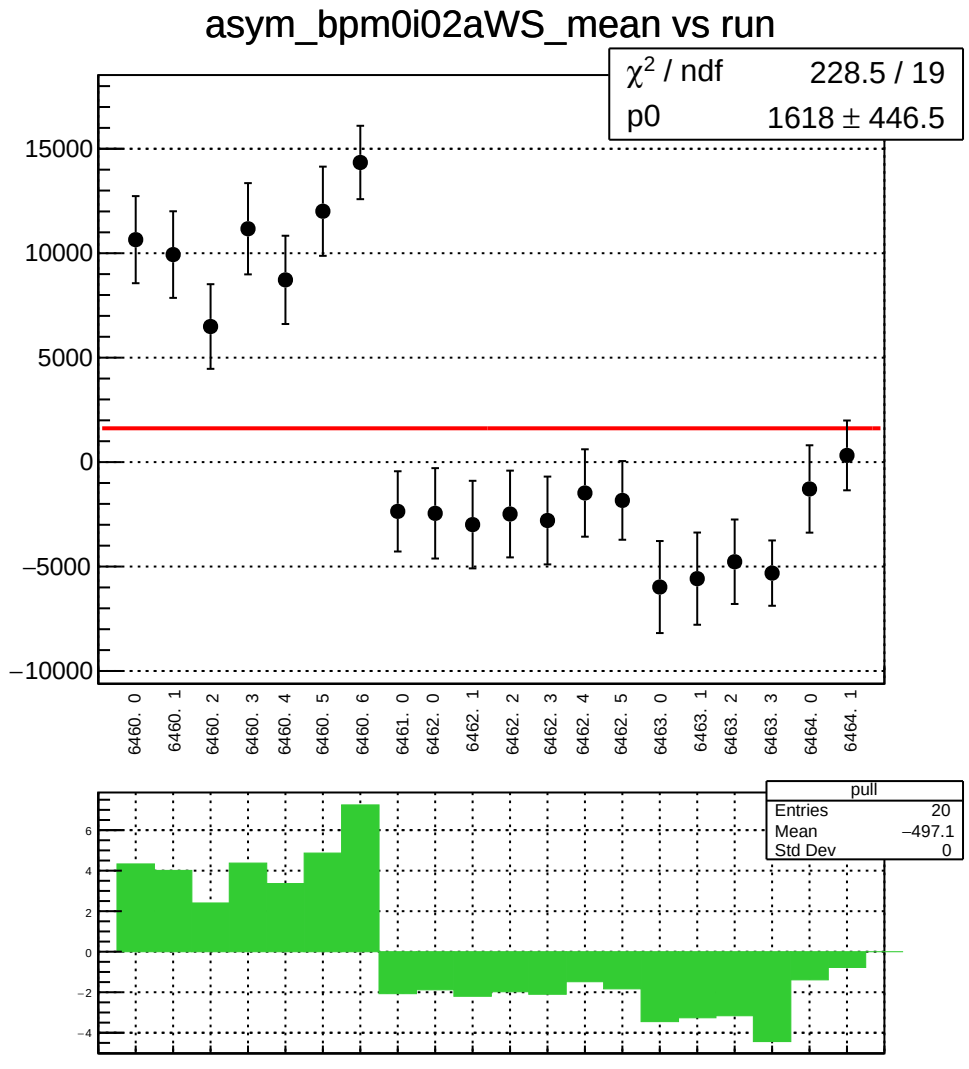

asym_bcm0l02_rms vs run
χ² / ndf 1396 / 19
p0 179.2 ± 0.282
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

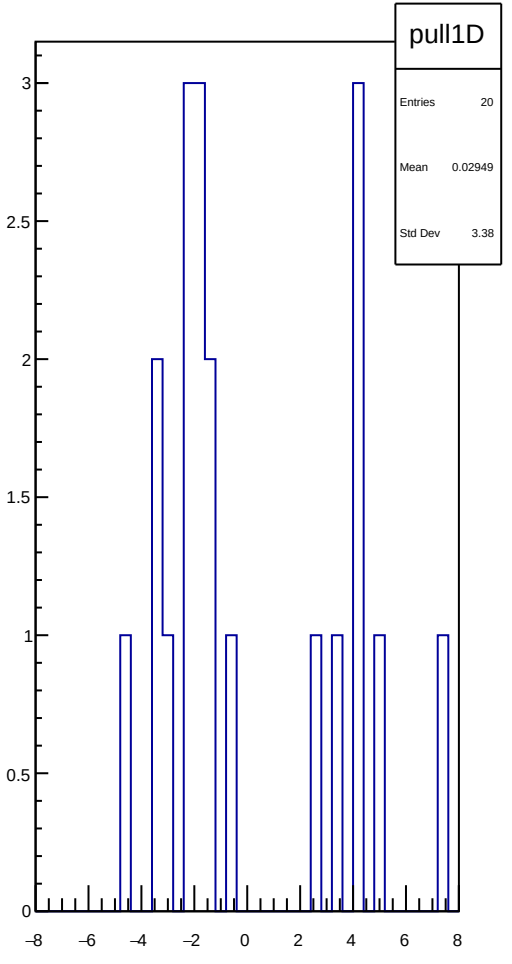

asym_bpm0i02WS_mean vs run
χ² / ndf 395 / 19
p0 5167 ± 339
20000
15000
10000
5000
0
−5000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

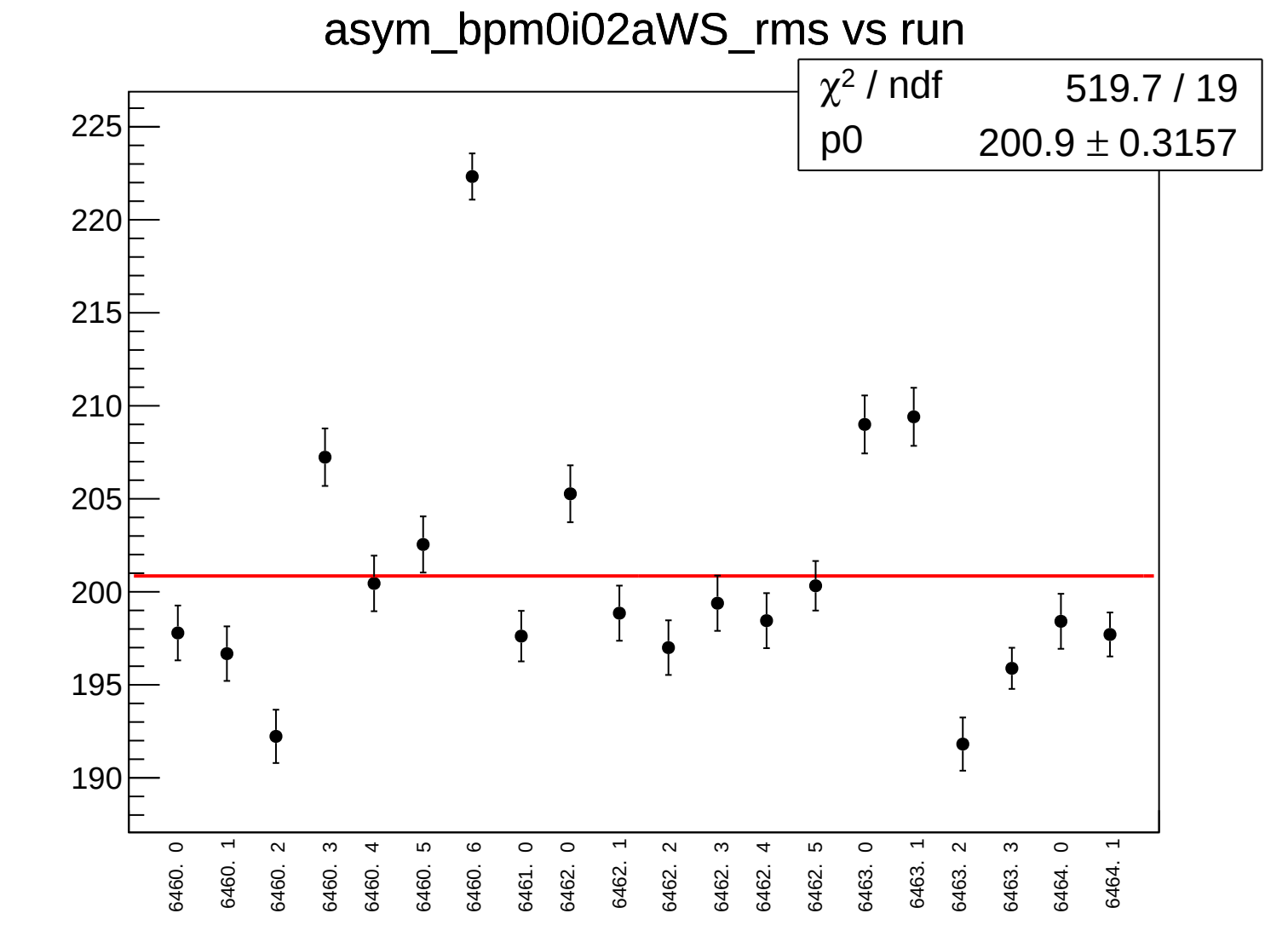

pull
Entries 20
Mean −255.4
Std Dev 0
8
6
4
2
0
−2
−4
−6

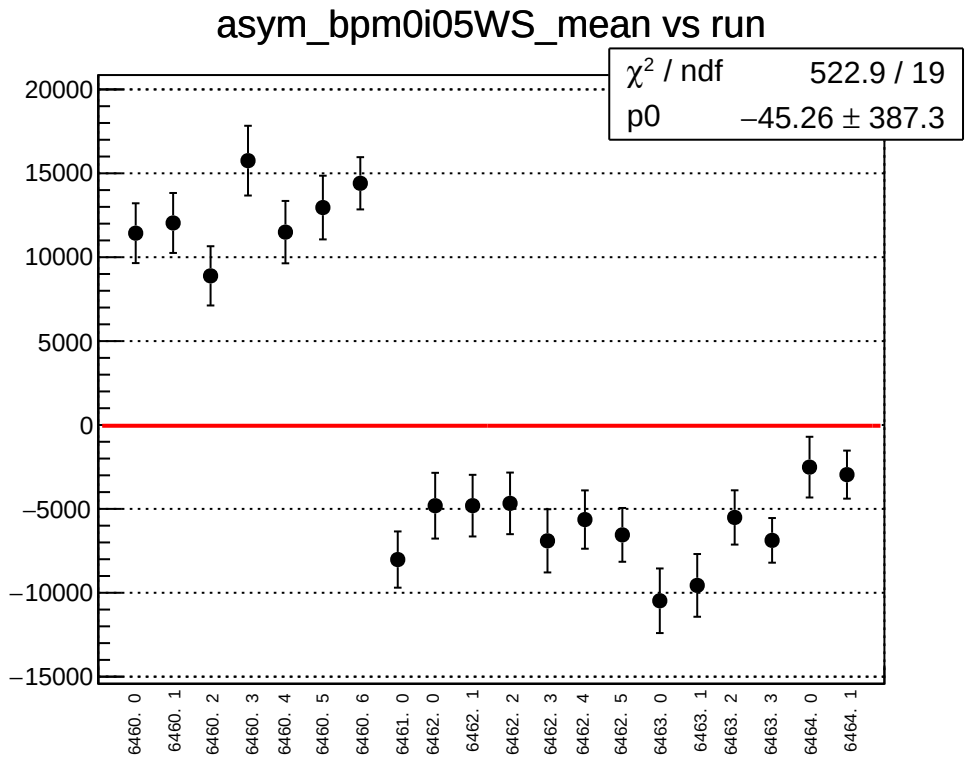

pull1D
Entries 20
Mean −0.852
Std Dev 3.65
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

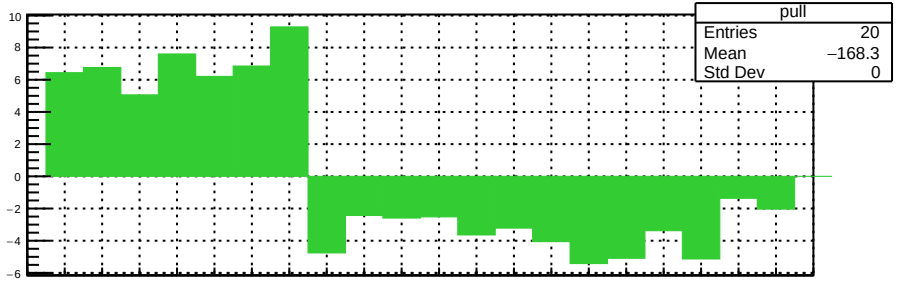

asym_bpm0i02WS_rms vs run
χ² / ndf 1878 / 19
p0 152.2 ± 0.2397
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

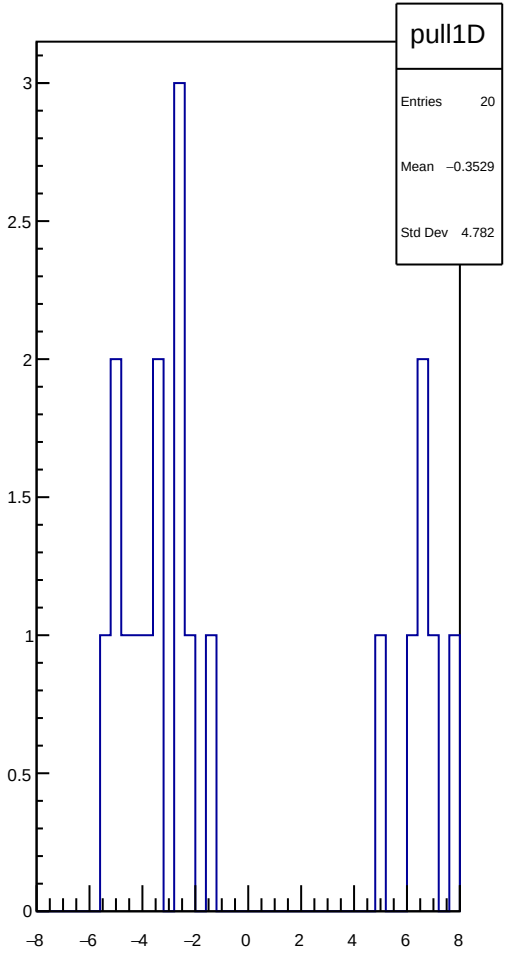

asym_bpm0i02aWS_mean vs run
χ² / ndf 228.5 / 19
p0 1618 ± 446.5
15000
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −497.1
Std Dev 0
6
4
2
0
−2
−4

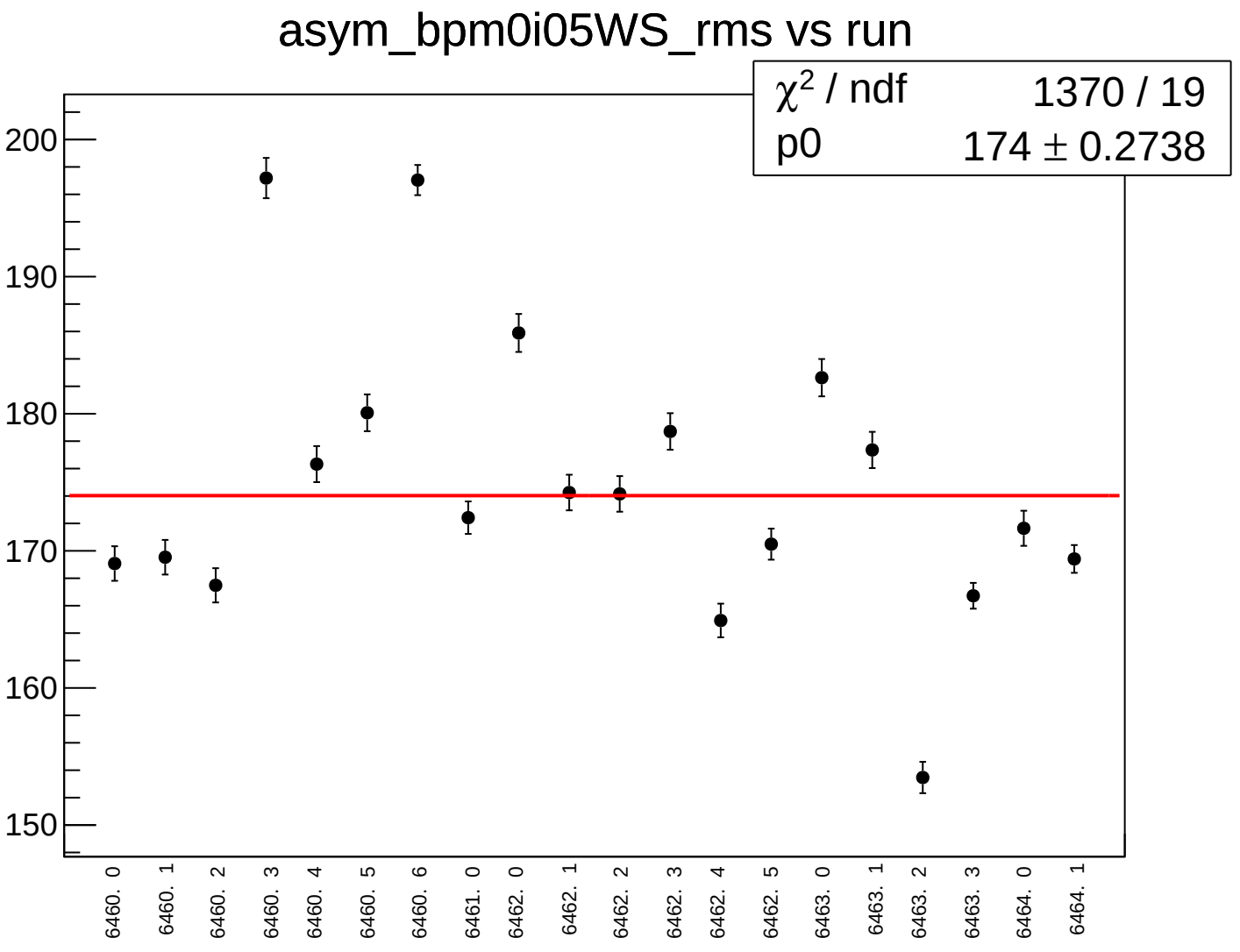

pull1D
Entries 20
Mean 0.02949
Std Dev 3.38
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

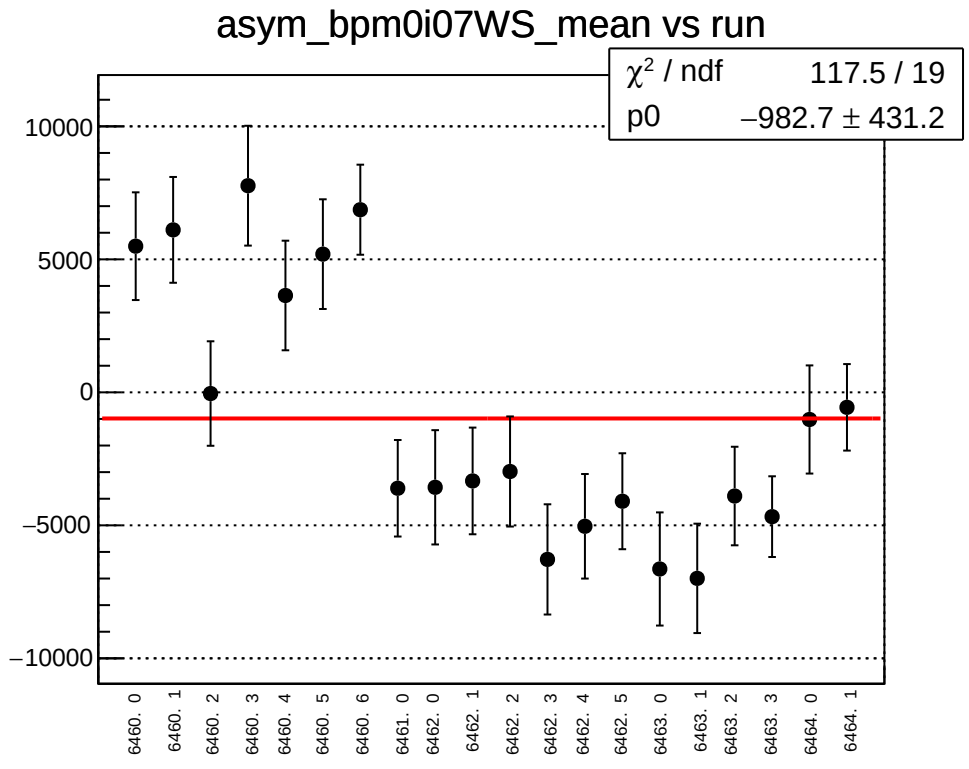

asym_bpm0i02aWS_rms vs run
χ² / ndf 519.7 / 19
p0 200.9 ± 0.3157
225
220
215
210
205
200
195
190
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

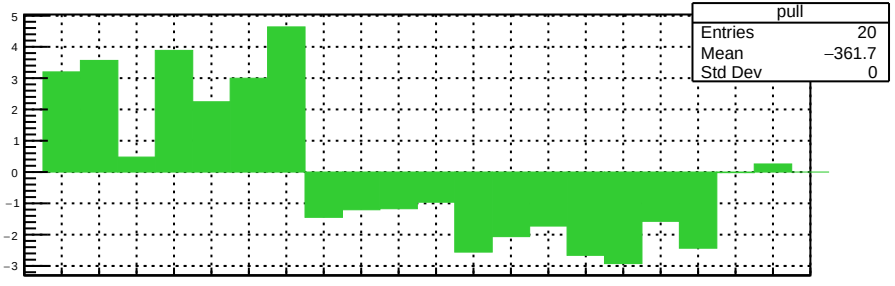

asym_bpm0i05WS_mean vs run
χ² / ndf 522.9 / 19
p0 −45.26 ± 387.3
20000
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

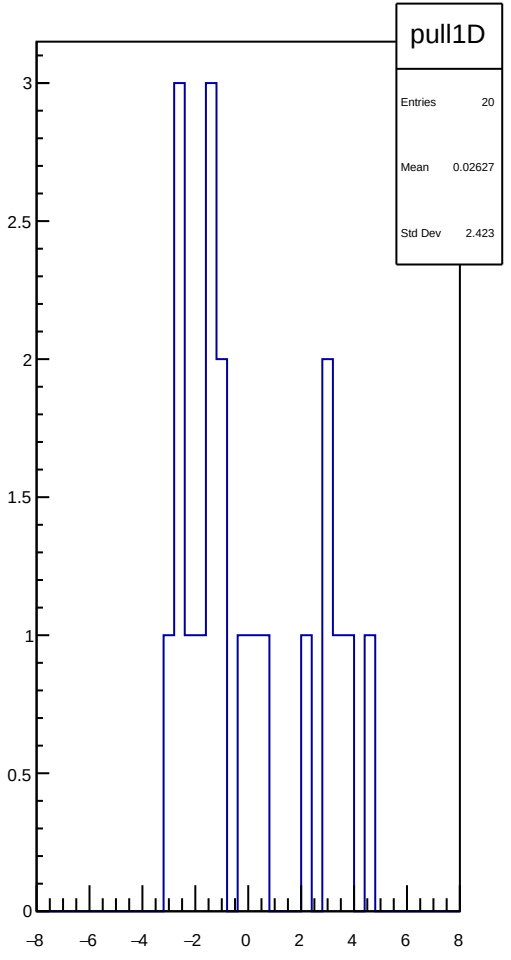

pull
Entries 20
Mean −168.3
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

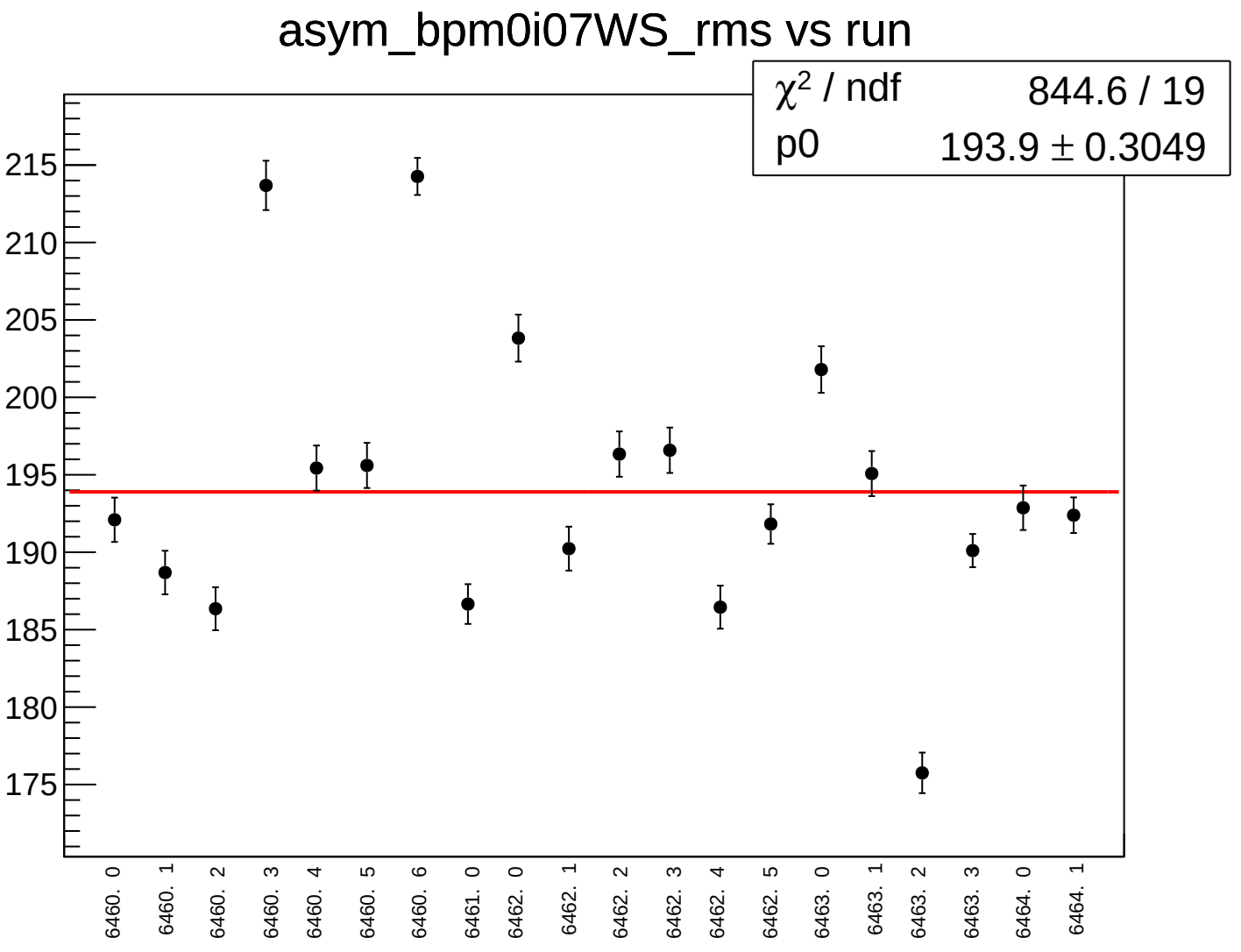

pull1D
Entries 20
Mean −0.3529
Std Dev 4.782
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

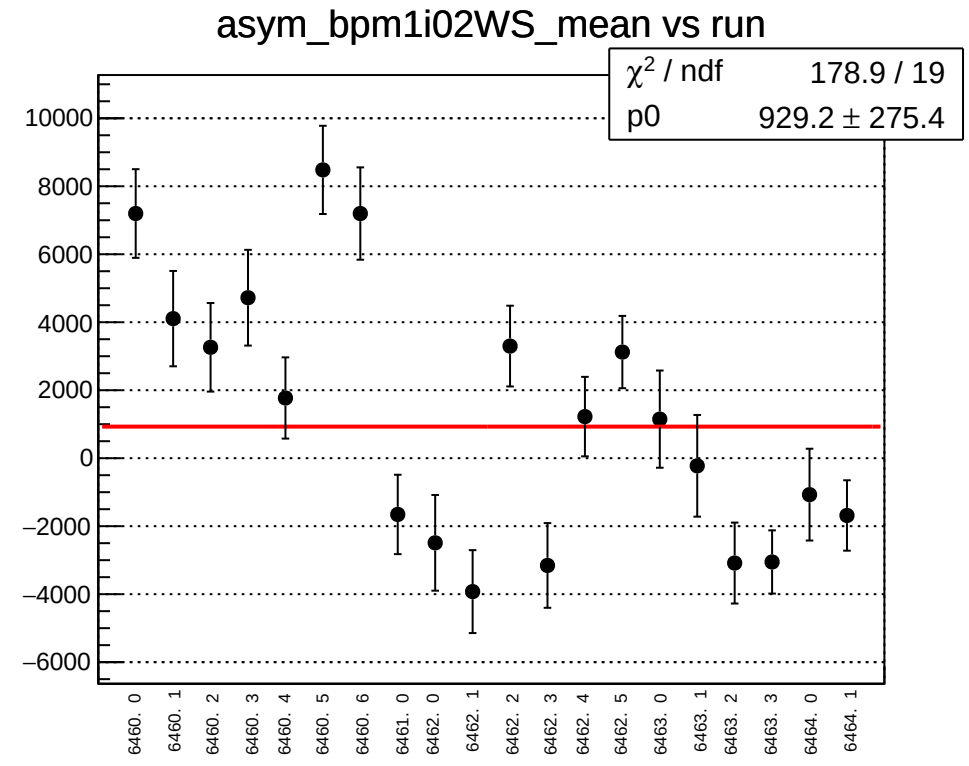

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1370 / 19
p0 174 ± 0.2738
200
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

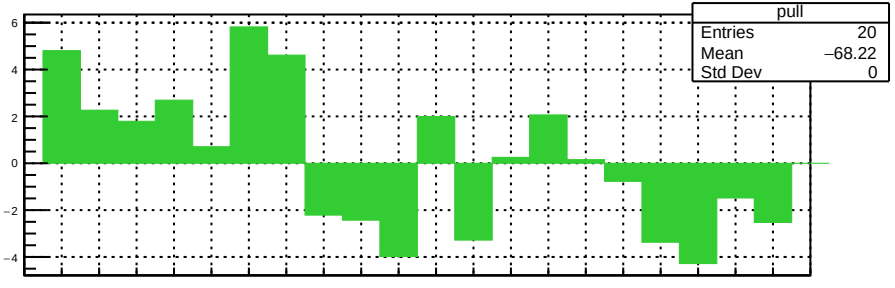

asym_bpm0i07WS_mean vs run
χ² / ndf 117.5 / 19
p0 −982.7 ± 431.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

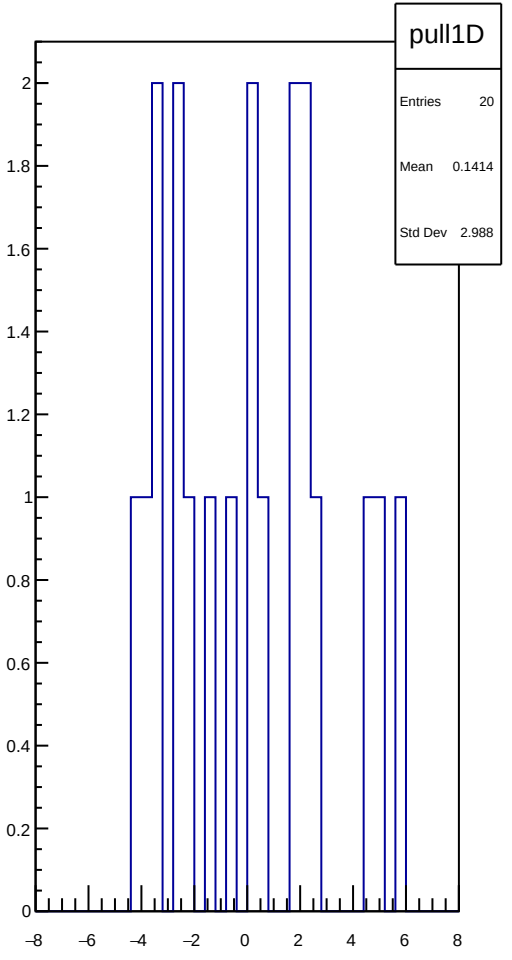

pull
Entries 20
Mean −361.7
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

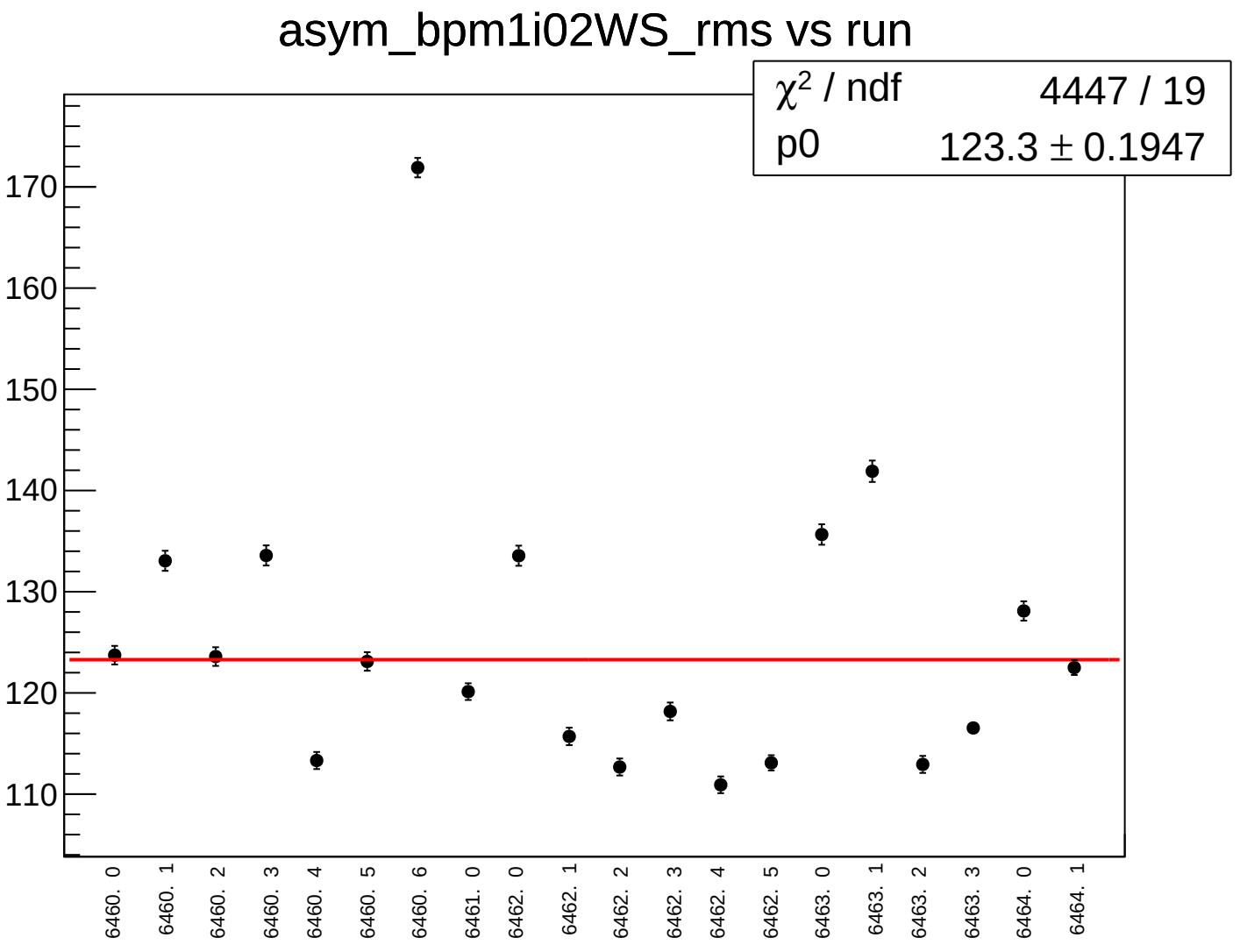

pull1D
Entries 20
Mean 0.02627
Std Dev 2.423
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

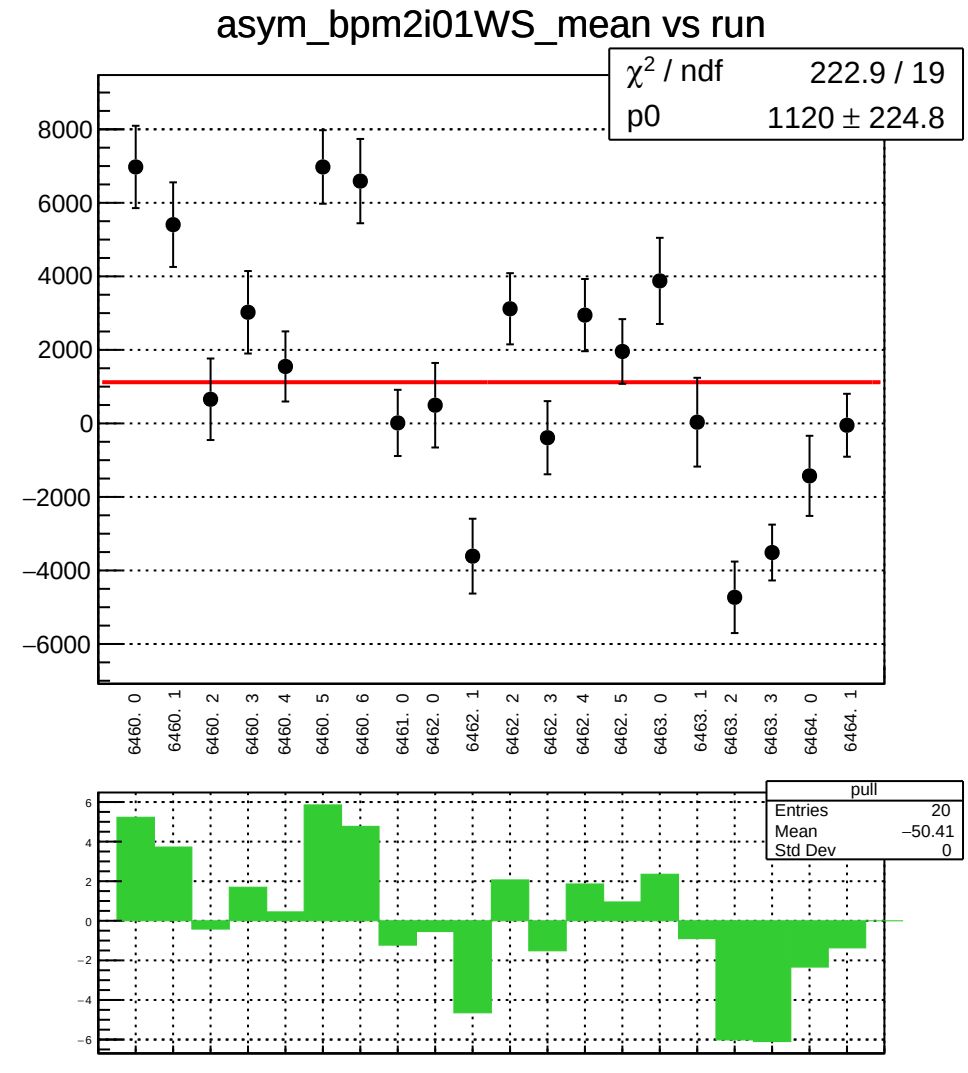

asym_bpm0i07WS_rms vs run
χ² / ndf 844.6 / 19
p0 193.9 ± 0.3049
215
210
205
200
195
190
185
180
175
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

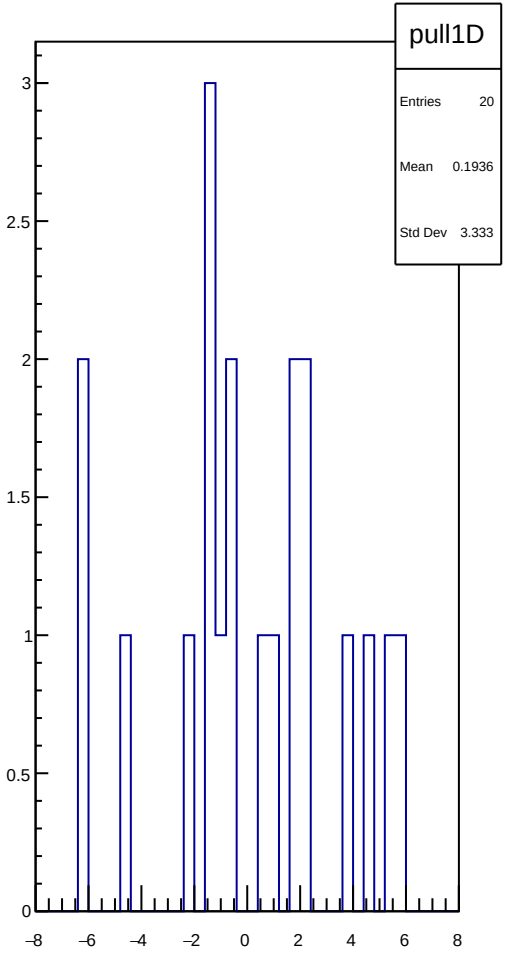

asym_bpm1i02WS_mean vs run
χ² / ndf 178.9 / 19
p0 929.2 ± 275.4
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

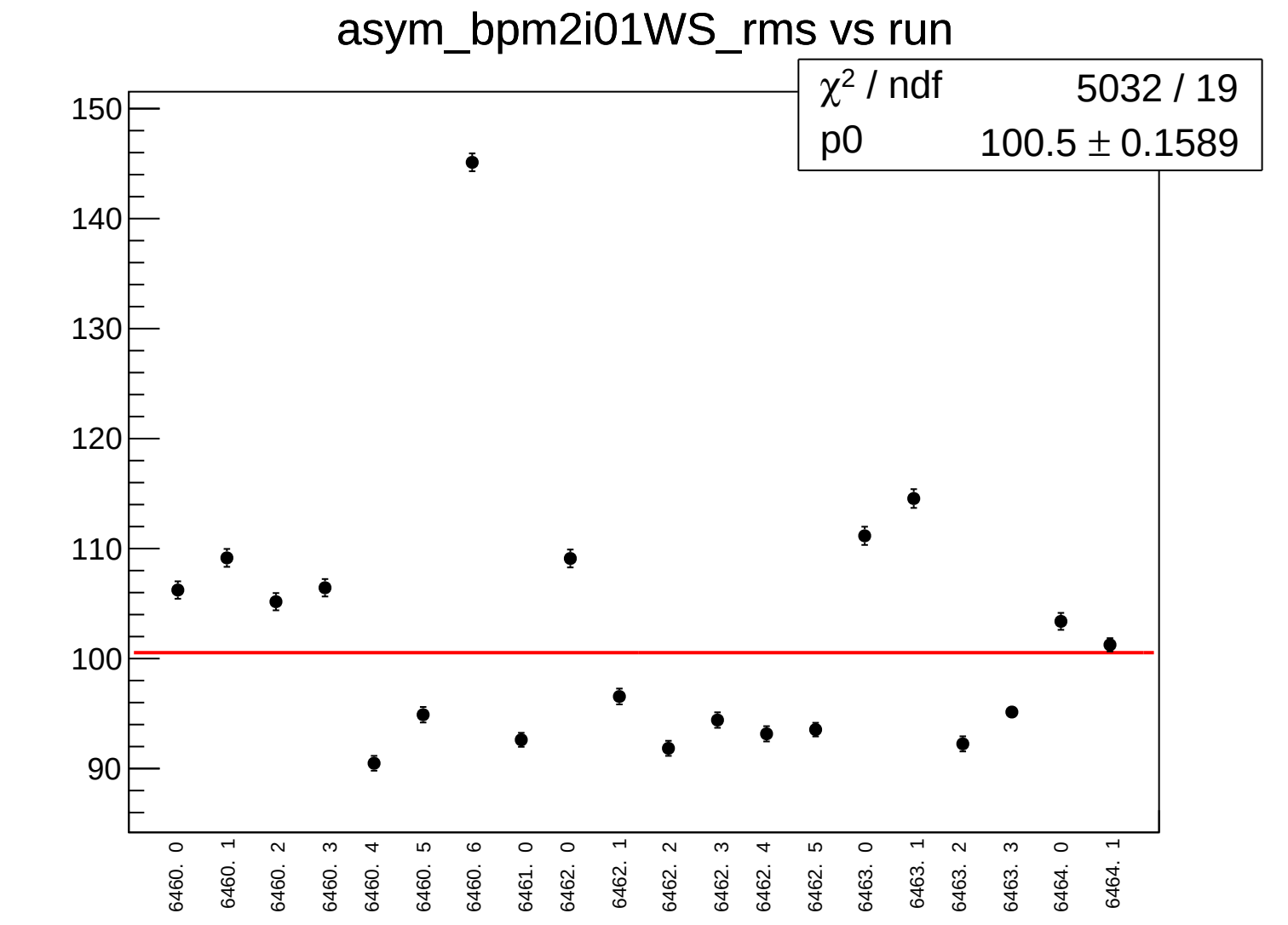

pull
Entries 20
Mean −68.22
Std Dev 0
6
4
2
0
−2
−4

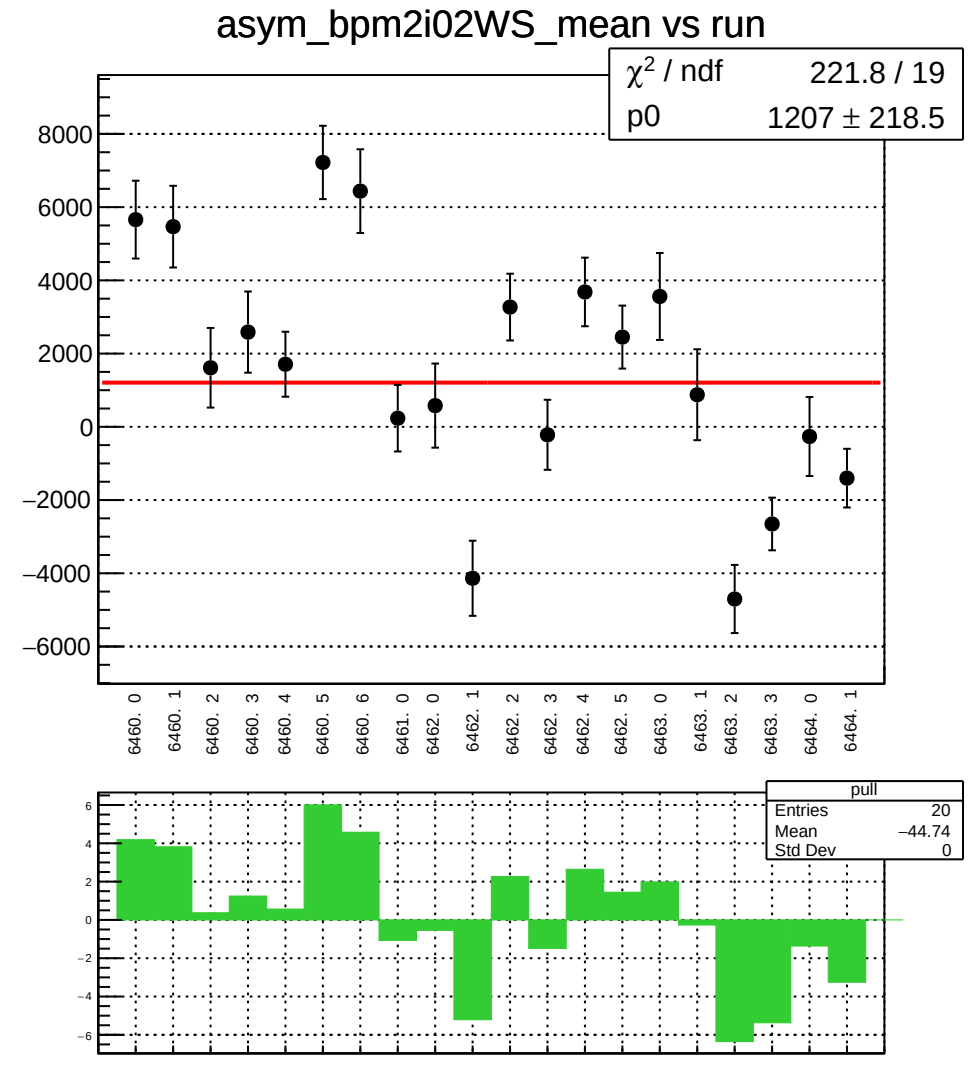

pull1D
Entries 20
Mean 0.1414
Std Dev 2.988
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

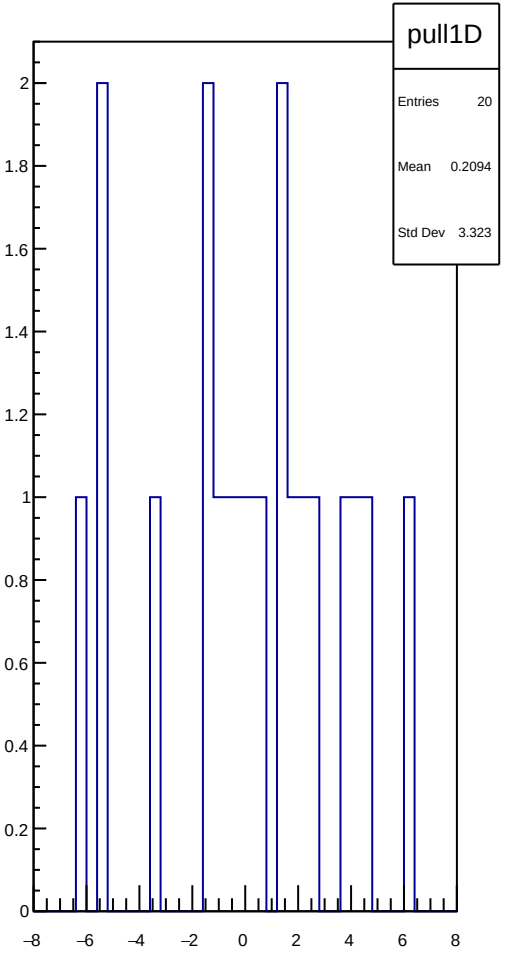

asym_bpm1i02WS_rms vs run
χ² / ndf 4447 / 19
p0 123.3 ± 0.1947
170
160
150
140
130
120
110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

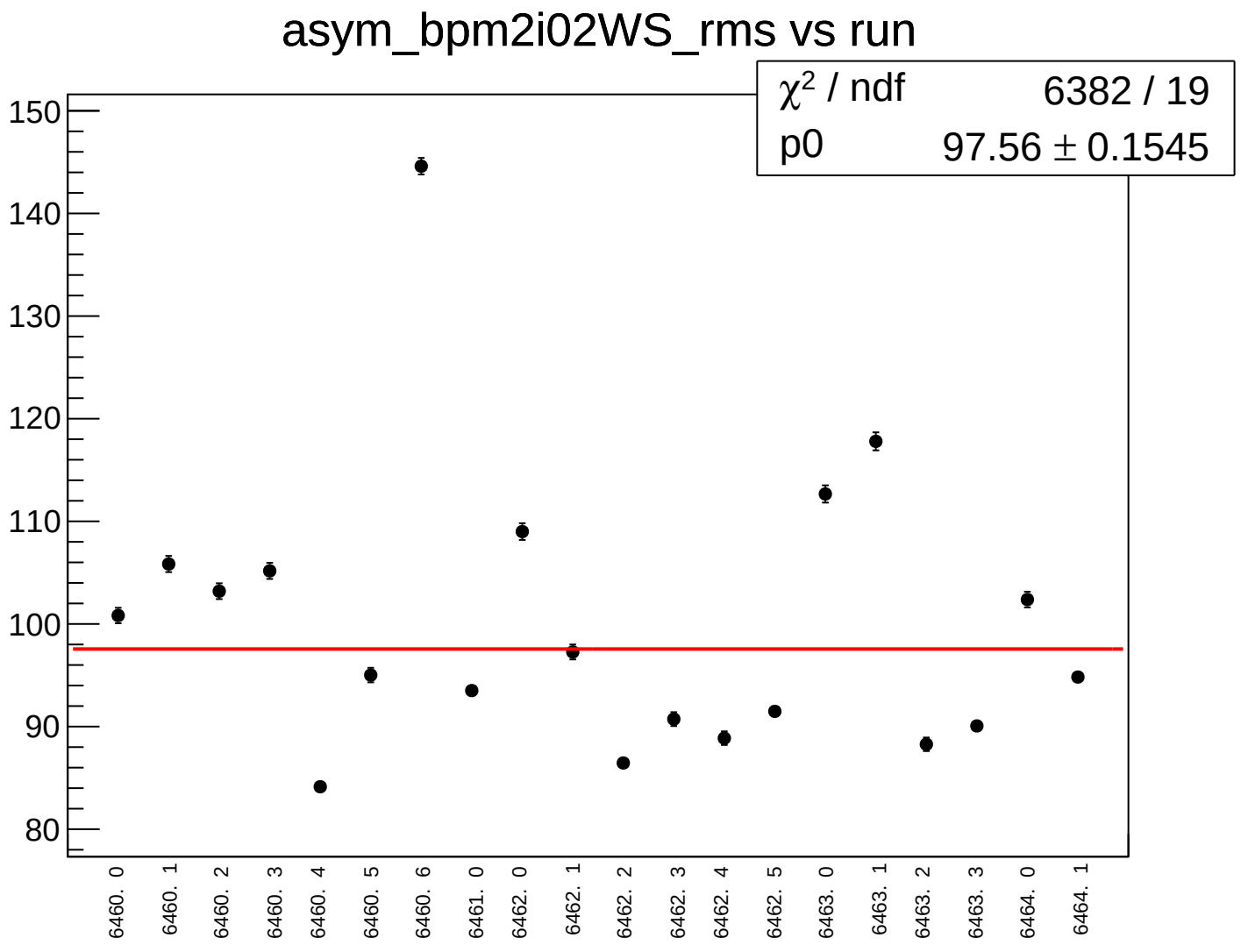

asym_bpm2i01WS_mean vs run
χ² / ndf 222.9 / 19
p0 1120 ± 224.8
8000
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.41
Std Dev 0
6
4
2
0
−2
−4
−6

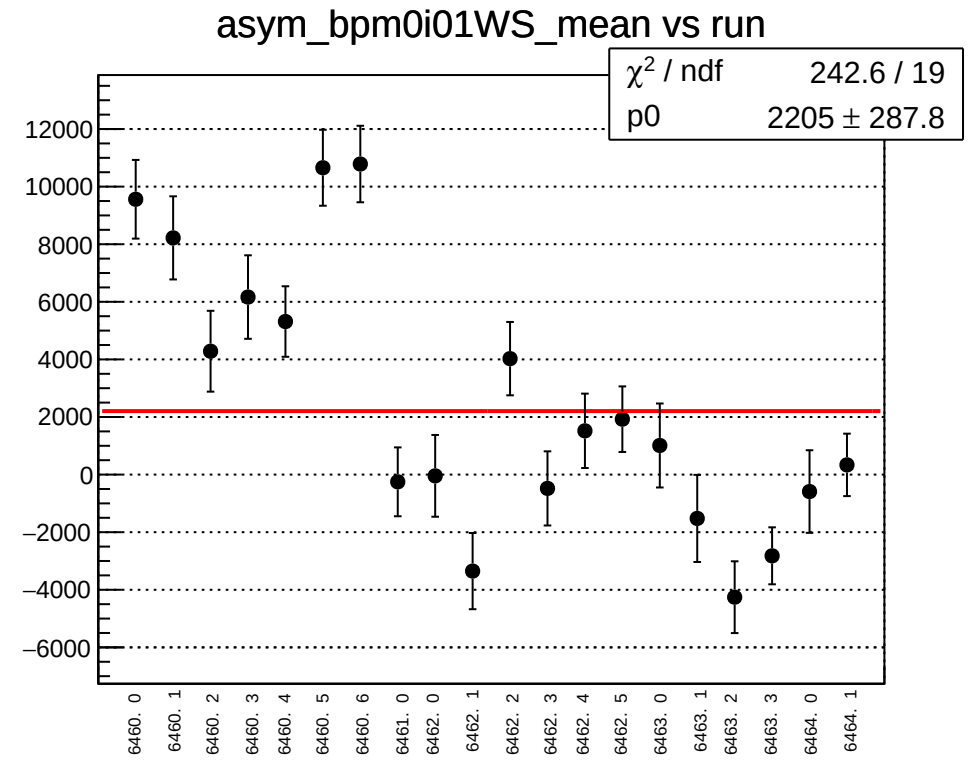

pull1D
Entries 20
Mean 0.1936
Std Dev 3.333
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

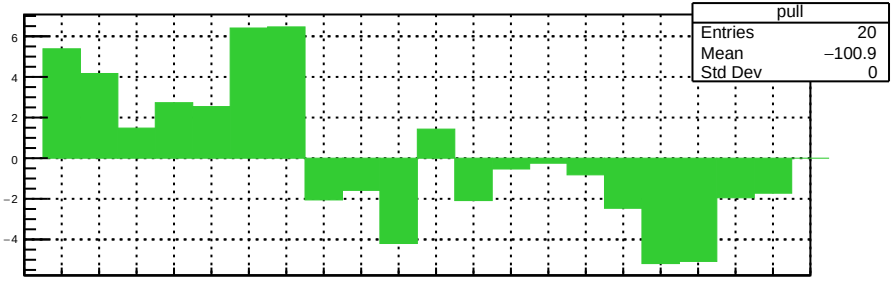

asym_bpm2i01WS_rms vs run
χ² / ndf 5032 / 19
p0 100.5 ± 0.1589
150
140
130
120
110
100
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

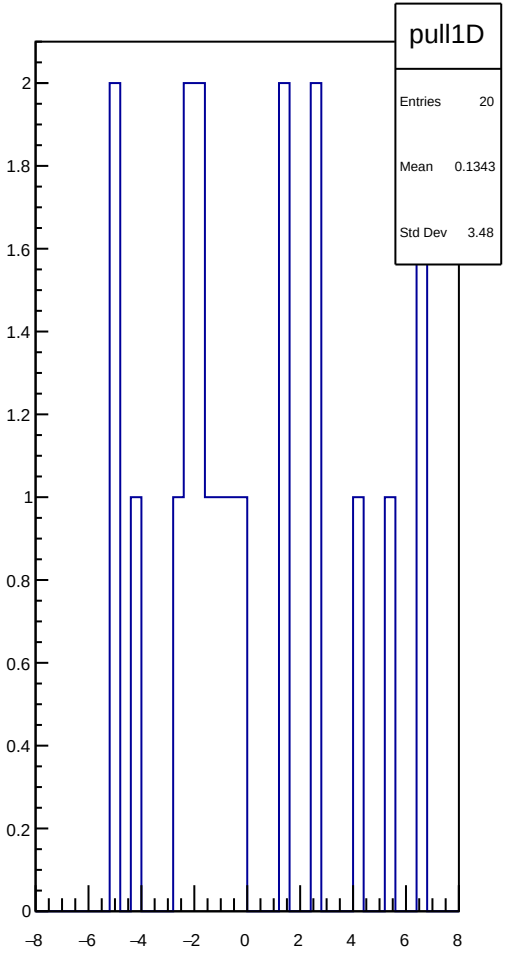

asym_bpm2i02WS_mean vs run
χ² / ndf 221.8 / 19
p0 1207 ± 218.5
8000
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −44.74
Std Dev 0
6
4
2
0
−2
−4
−6

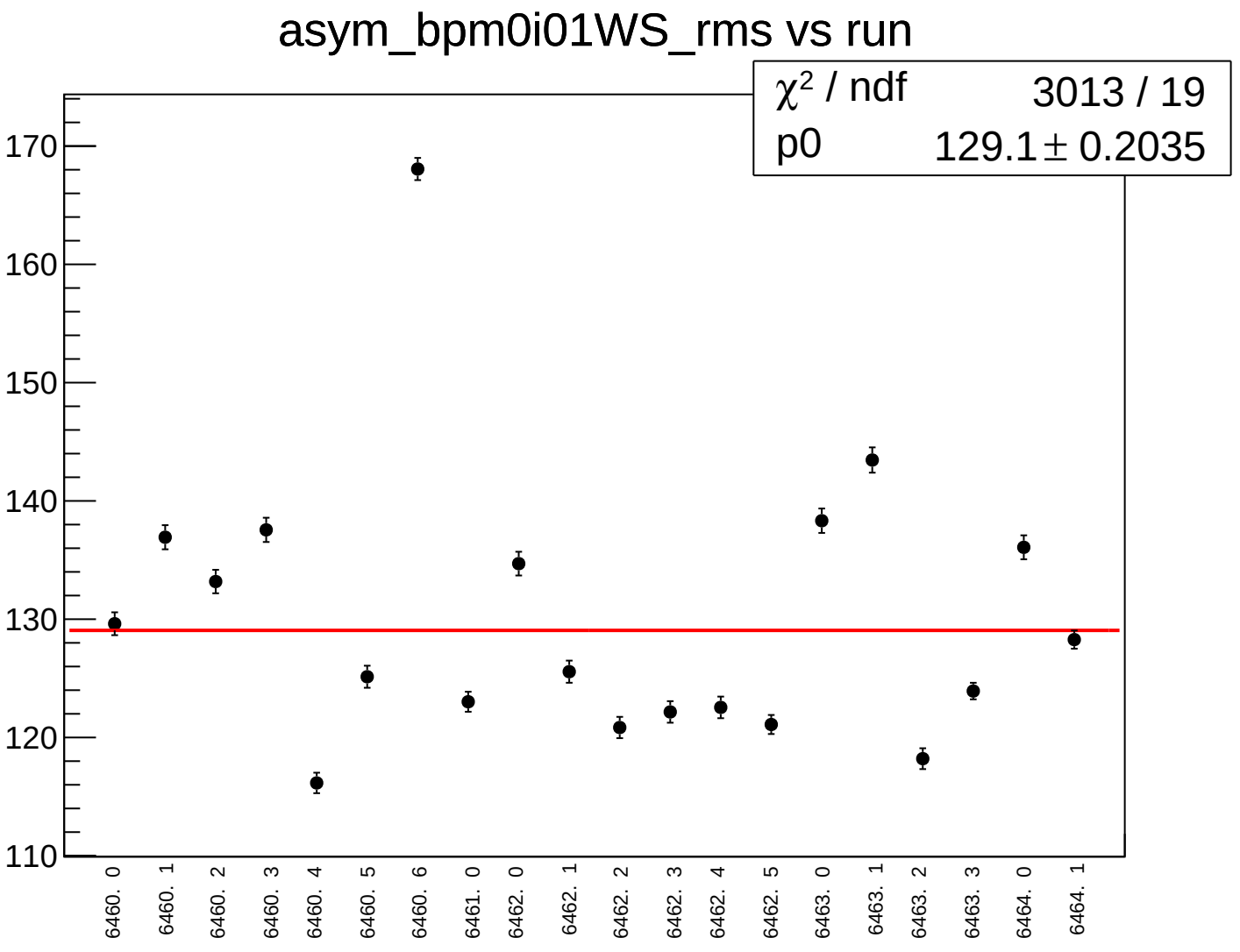

pull1D
Entries 20
Mean 0.2094
Std Dev 3.323
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

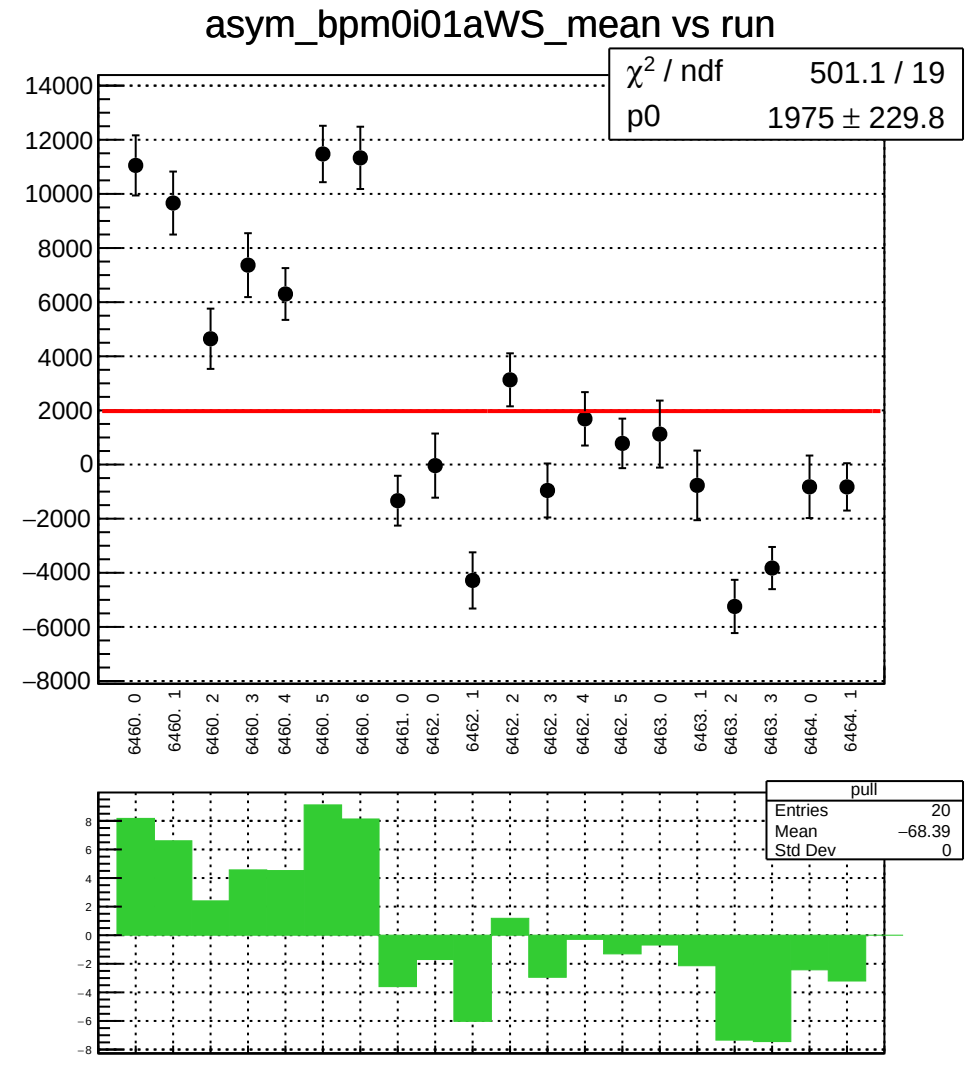

asym_bpm2i02WS_rms vs run
χ² / ndf 6382 / 19
p0 97.56 ± 0.1545
150
140
130
120
110
100
90
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

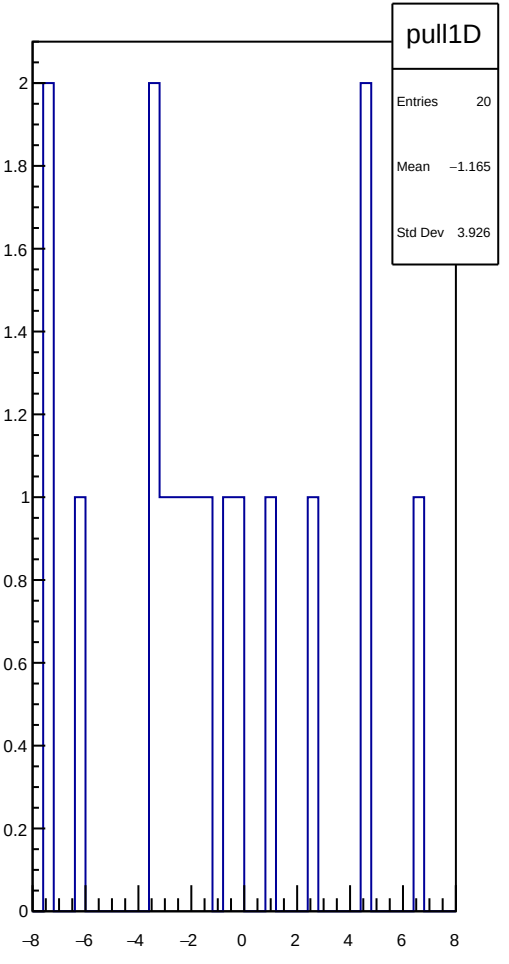

asym_bpm0i01WS_mean vs run
χ² / ndf 242.6 / 19
p0 2205 ± 287.8
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

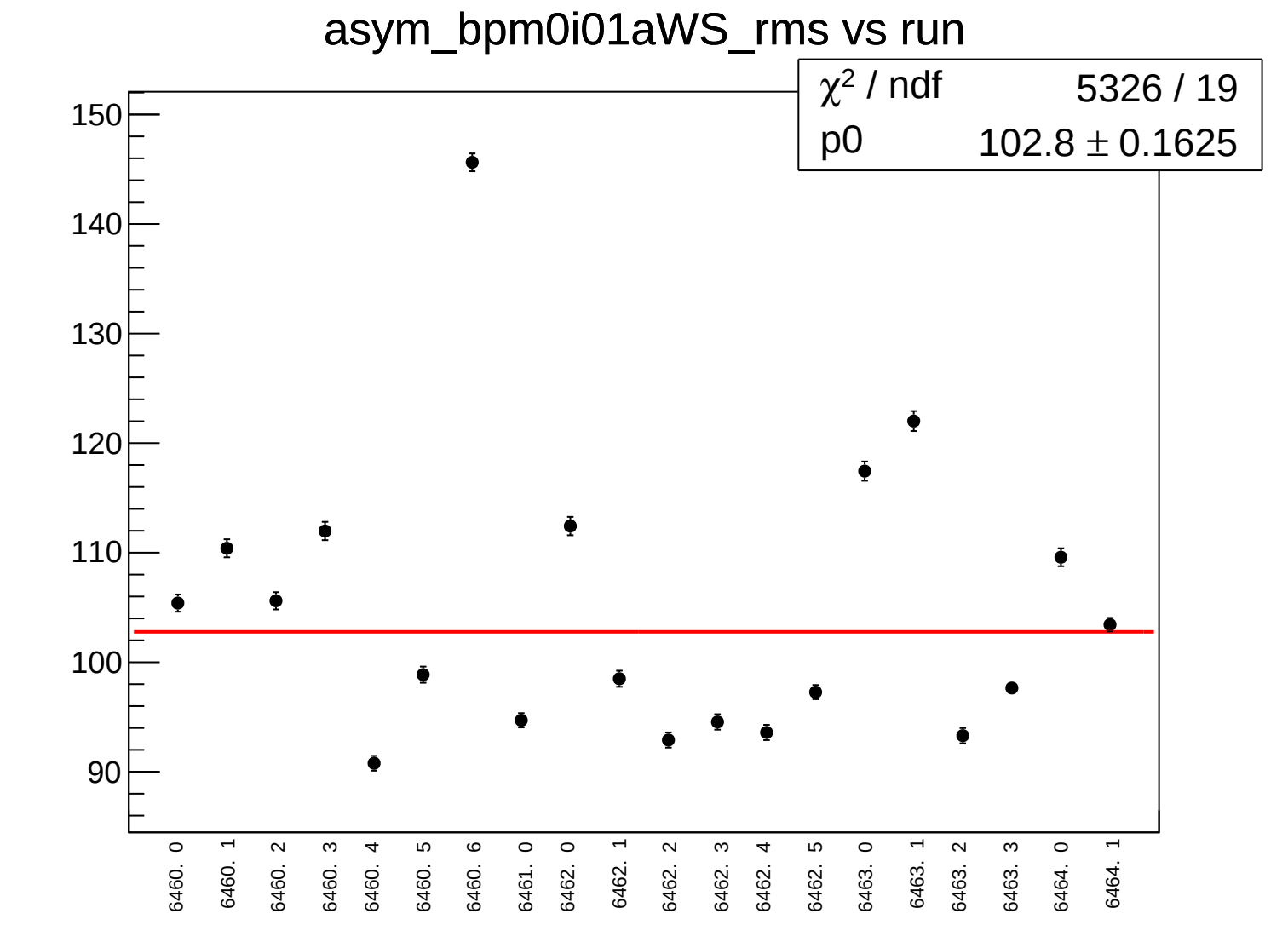

pull
Entries 20
Mean −100.9
Std Dev 0
6
4
2
0
−2
−4

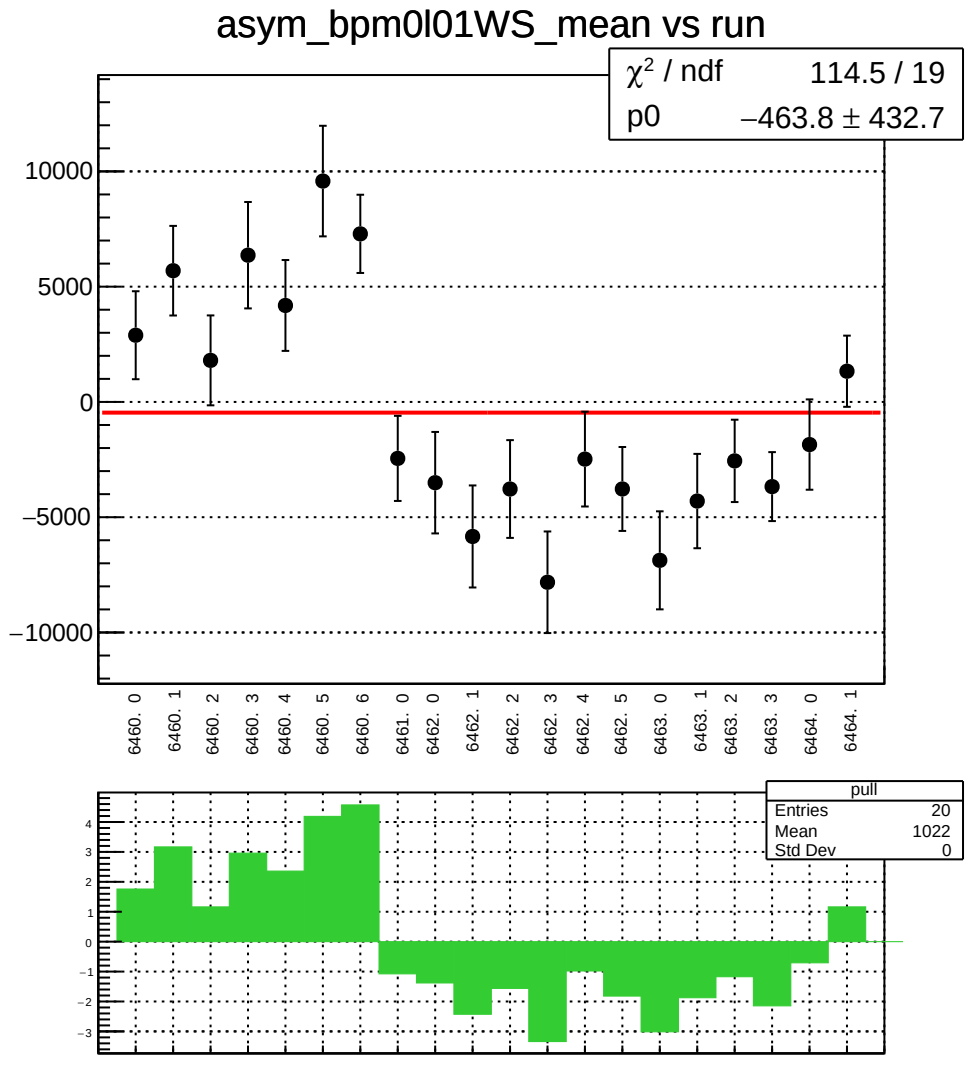

pull1D
Entries 20
Mean 0.1343
Std Dev 3.48
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

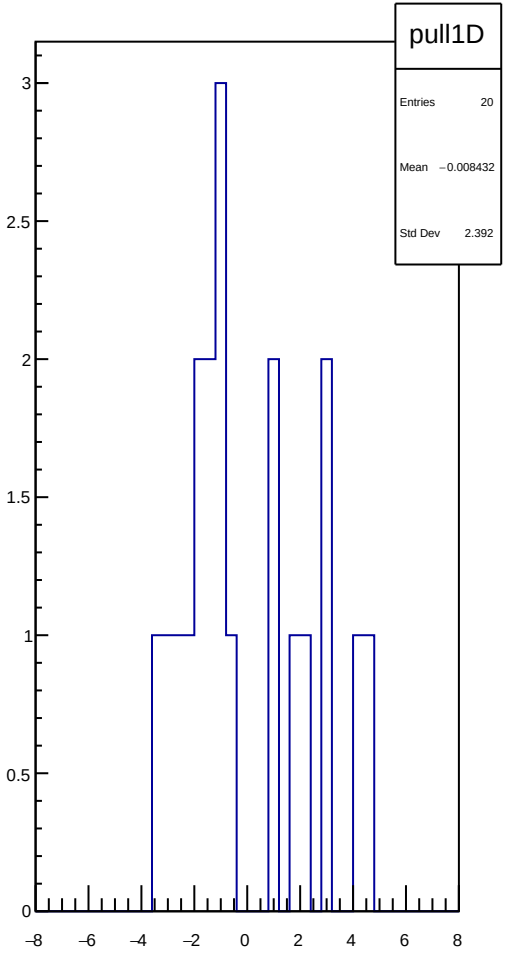

asym_bpm0i01WS_rms vs run
χ² / ndf 3013 / 19
p0 129.1 ± 0.2035
170
160
150
140
130
120
110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

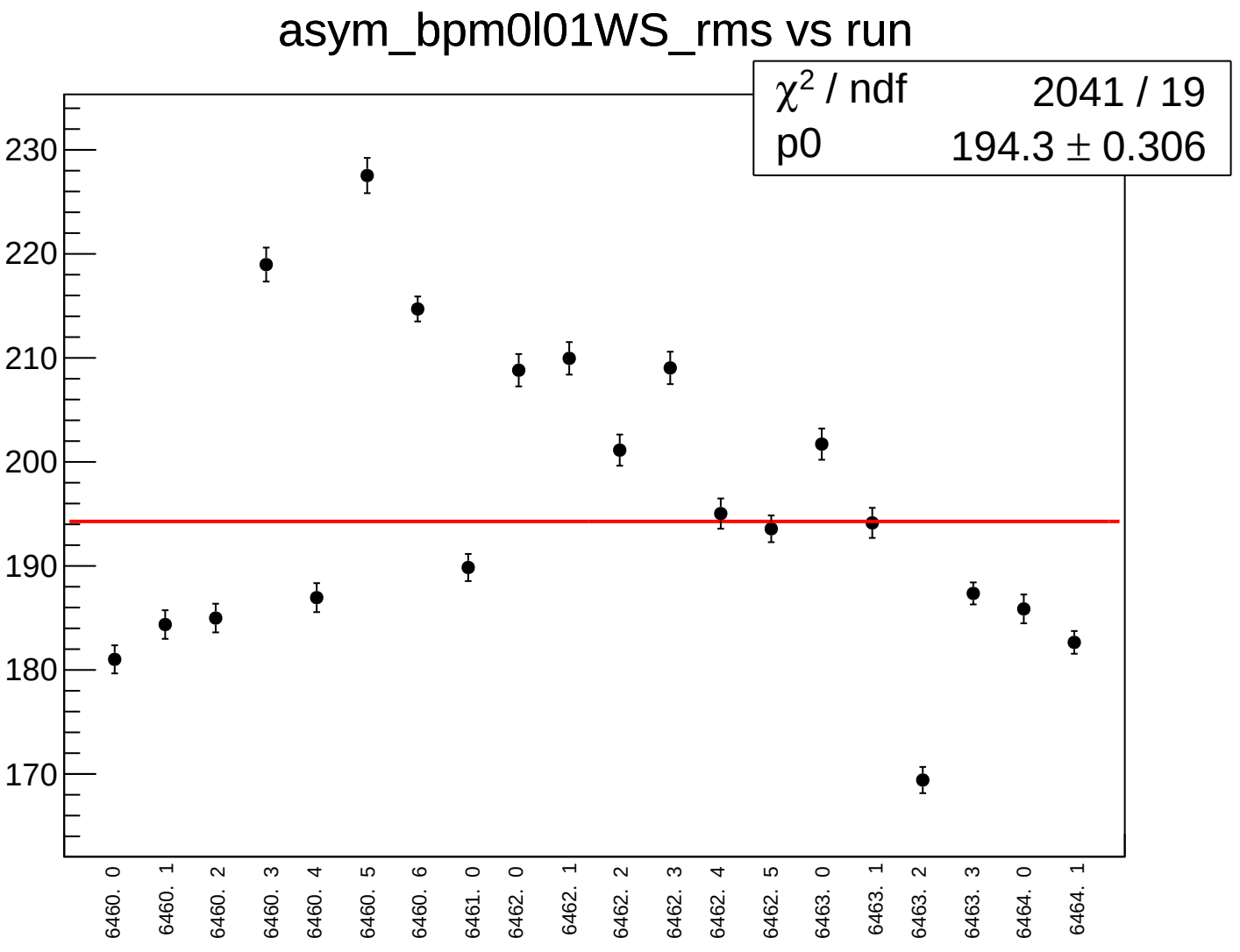

asym_bpm0i01aWS_mean vs run
χ² / ndf 501.1 / 19
p0 1975 ± 229.8
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −68.39
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

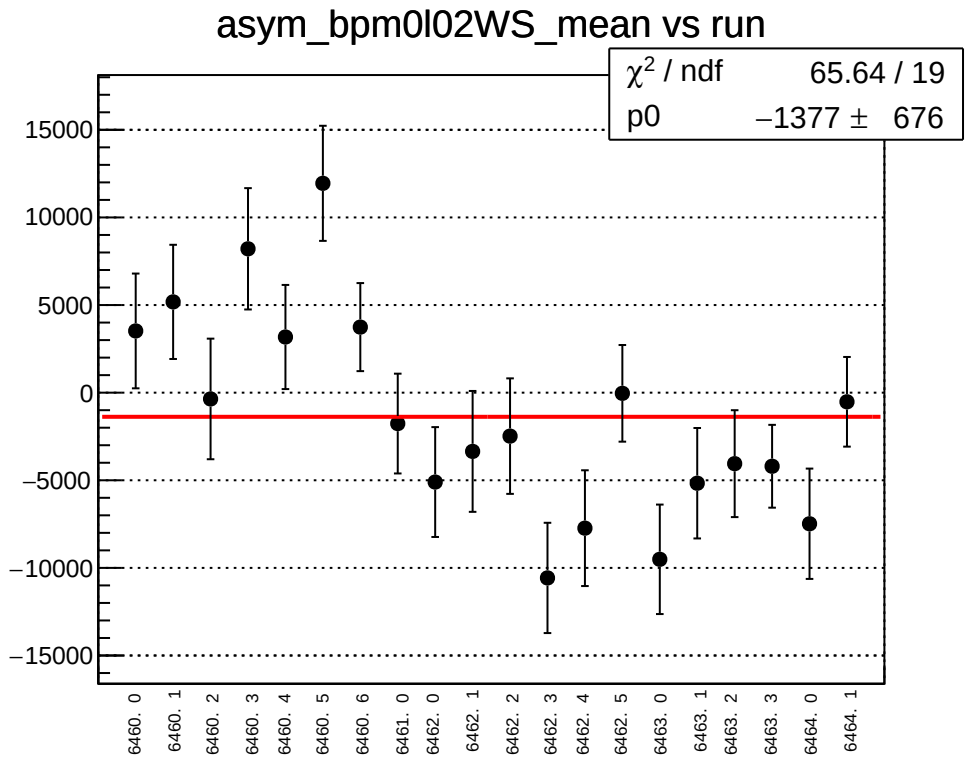

pull1D
Entries 20
Mean −1.165
Std Dev 3.926
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

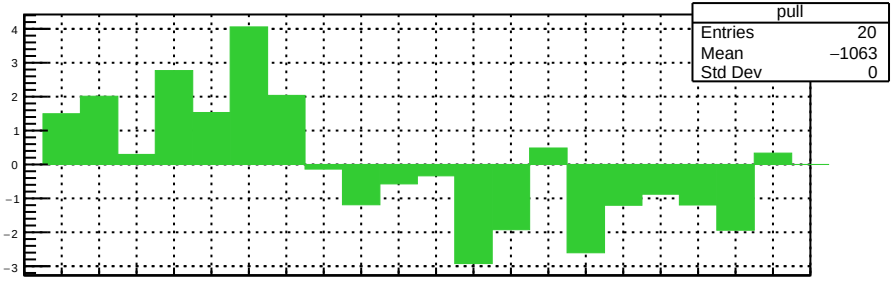

asym_bpm0i01aWS_rms vs run
χ² / ndf 5326 / 19
p0 102.8 ± 0.1625
150
140
130
120
110
100
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

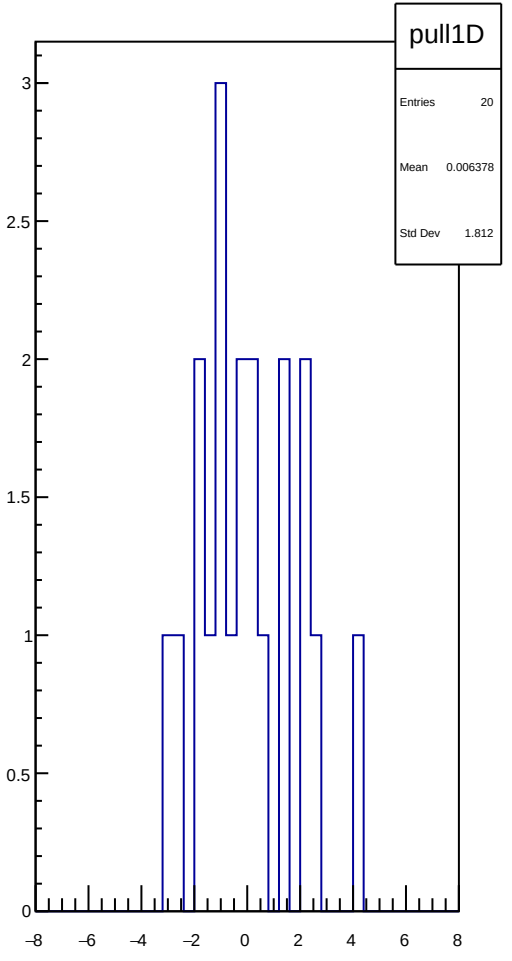

asym_bpm0l01WS_mean vs run
χ² / ndf 114.5 / 19
p0 −463.8 ± 432.7
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1022
Std Dev 0
4
3
2
1
0
−1
−2
−3

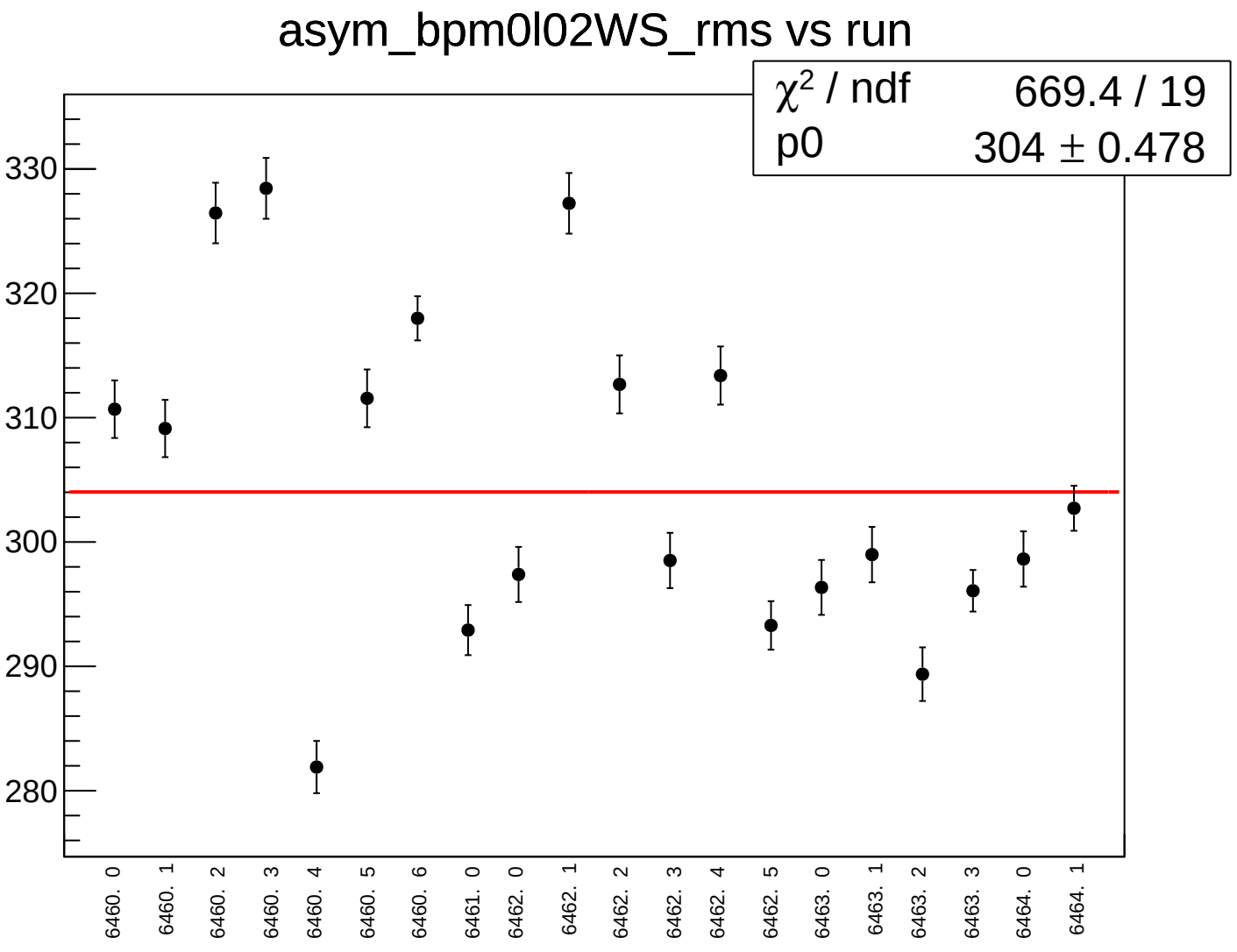

pull1D
Entries 20
Mean −0.008432
Std Dev 2.392
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

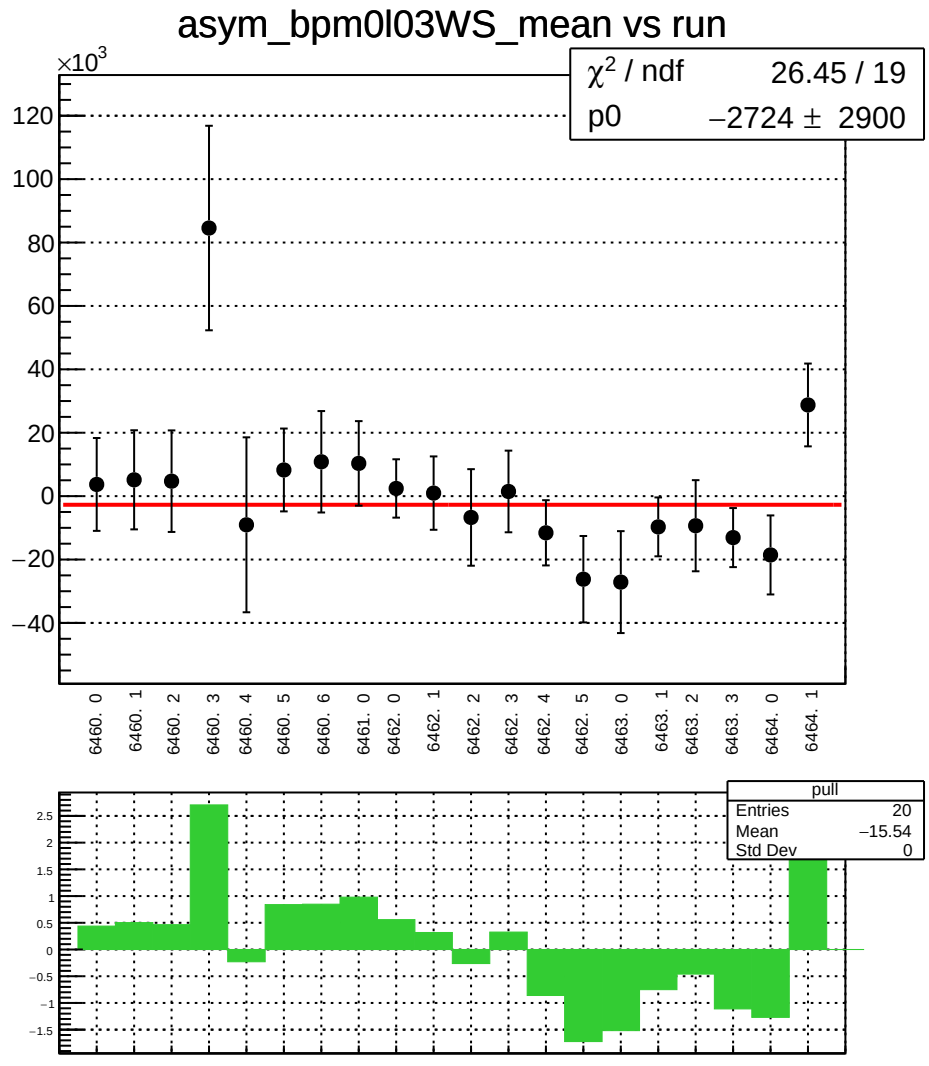

asym_bpm0l01WS_rms vs run
χ² / ndf 2041 / 19
p0 194.3 ± 0.306
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

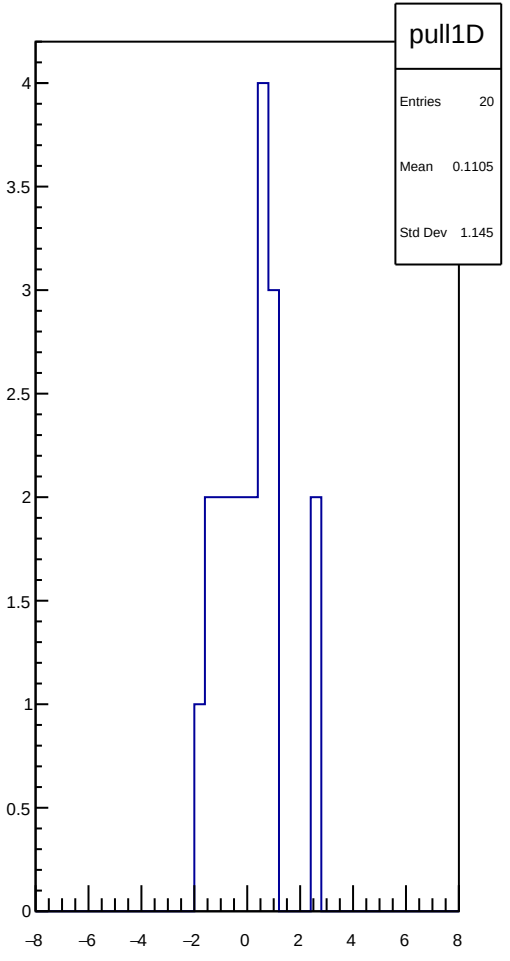

asym_bpm0l02WS_mean vs run
χ² / ndf 65.64 / 19
p0 −1377 ± 676
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

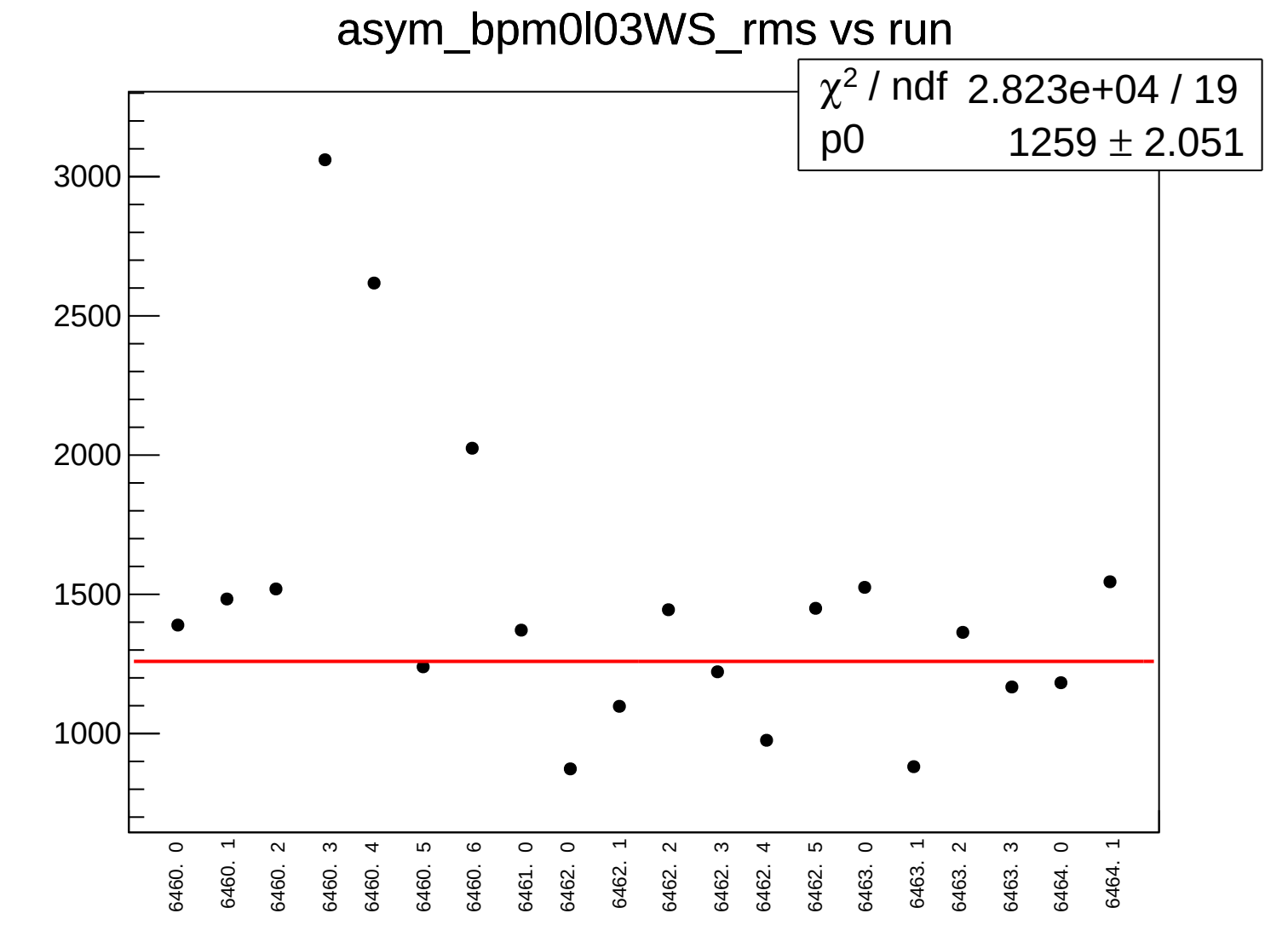

pull
Entries 20
Mean −1063
Std Dev 0
4
3
2
1
0
−1
−2
−3

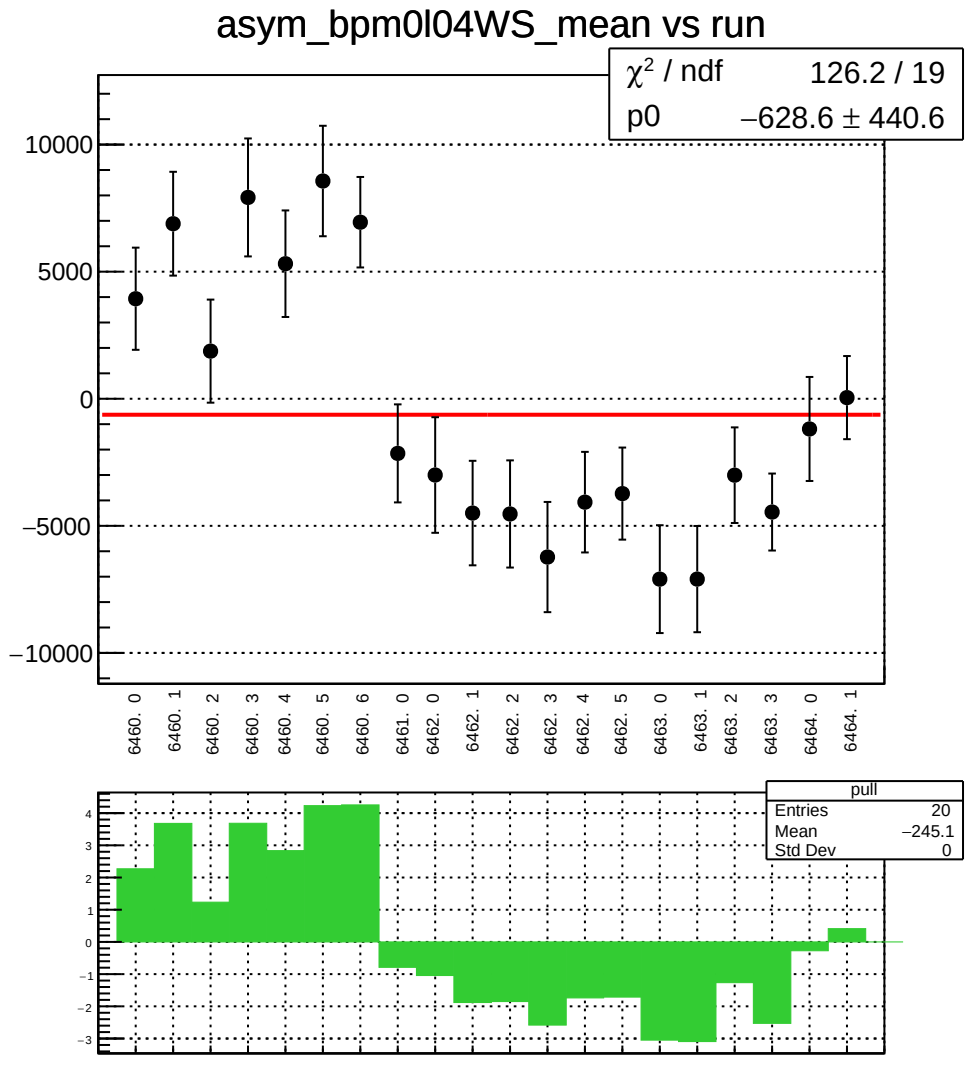

pull1D
Entries 20
Mean 0.006378
Std Dev 1.812
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

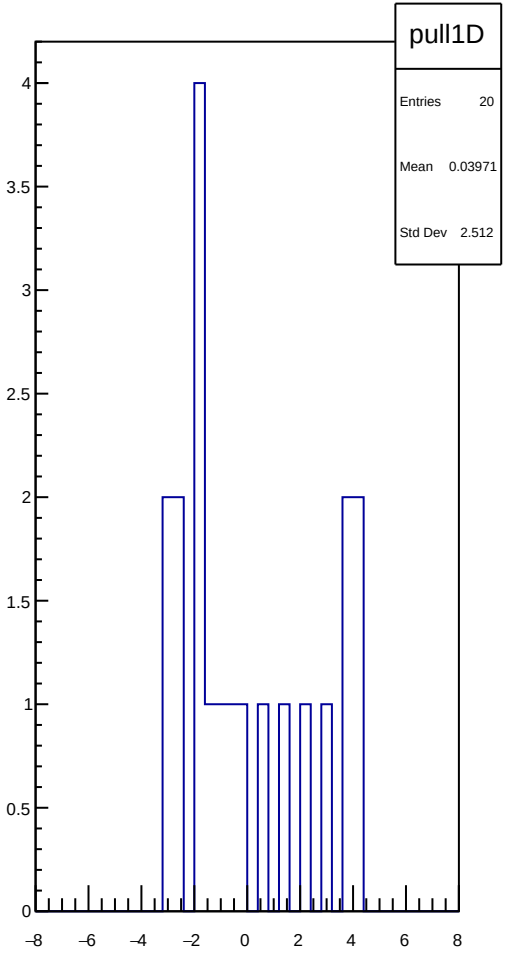

asym_bpm0l02WS_rms vs run
χ^2 / ndf 669.4 / 19
p0 304 ± 0.478
330
320
310
300
290
280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

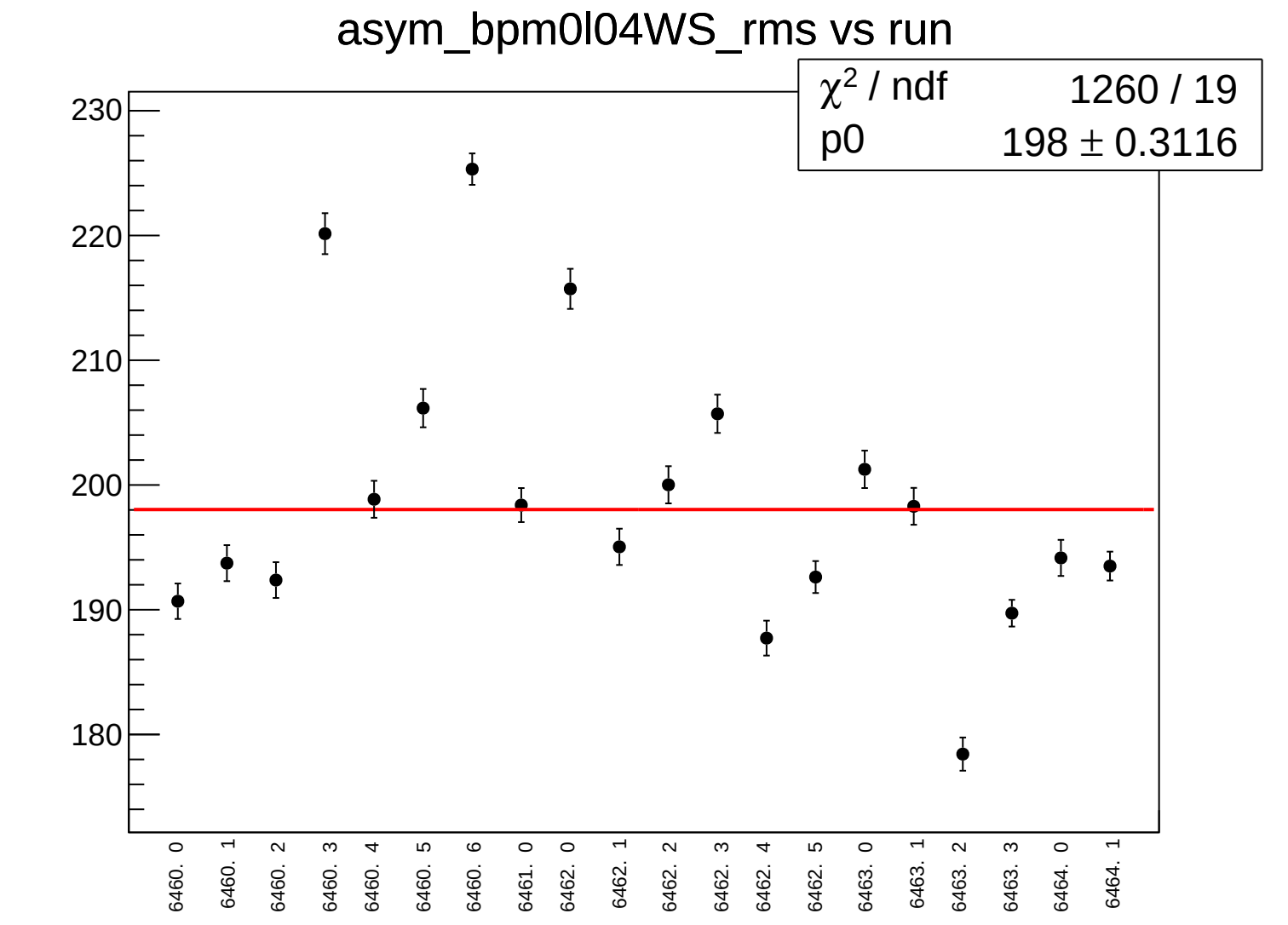

asym_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 26.45 / 19
p0 −2724 ± 2900
120
100
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −15.54
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

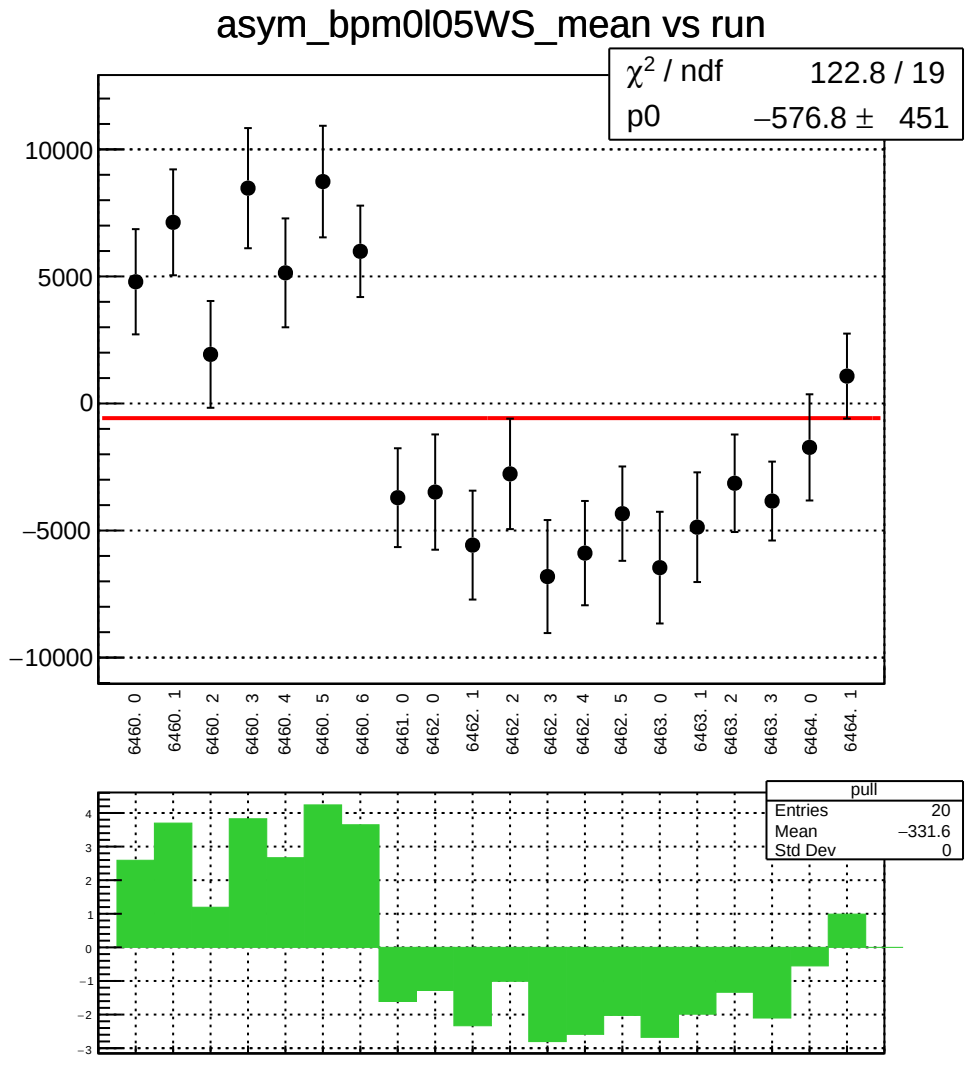

pull1D
Entries 20
Mean 0.1105
Std Dev 1.145
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

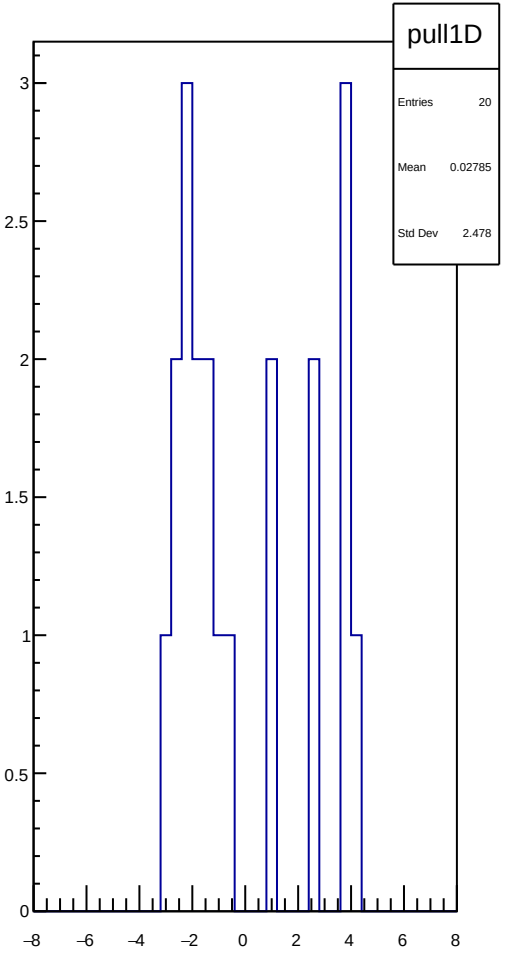

asym_bpm0l03WS_rms vs run
χ² / ndf 2.823e+04 / 19
p0 1259 ± 2.051
3000
2500
2000
1500
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

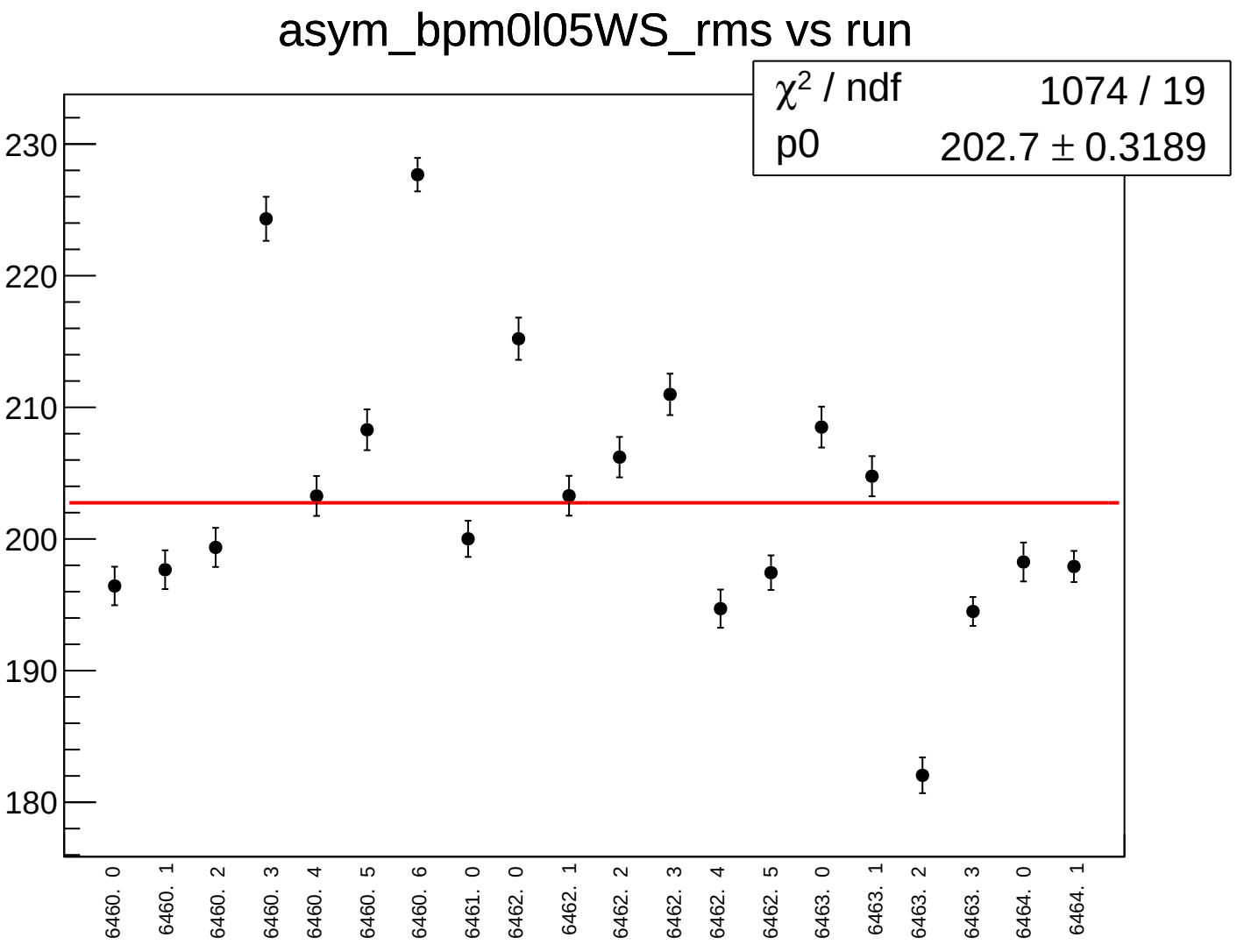

asym_bpm0l04WS_mean vs run
χ² / ndf 126.2 / 19
p0 −628.6 ± 440.6
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −245.1
Std Dev 0
4
3
2
1
0
−1
−2
−3

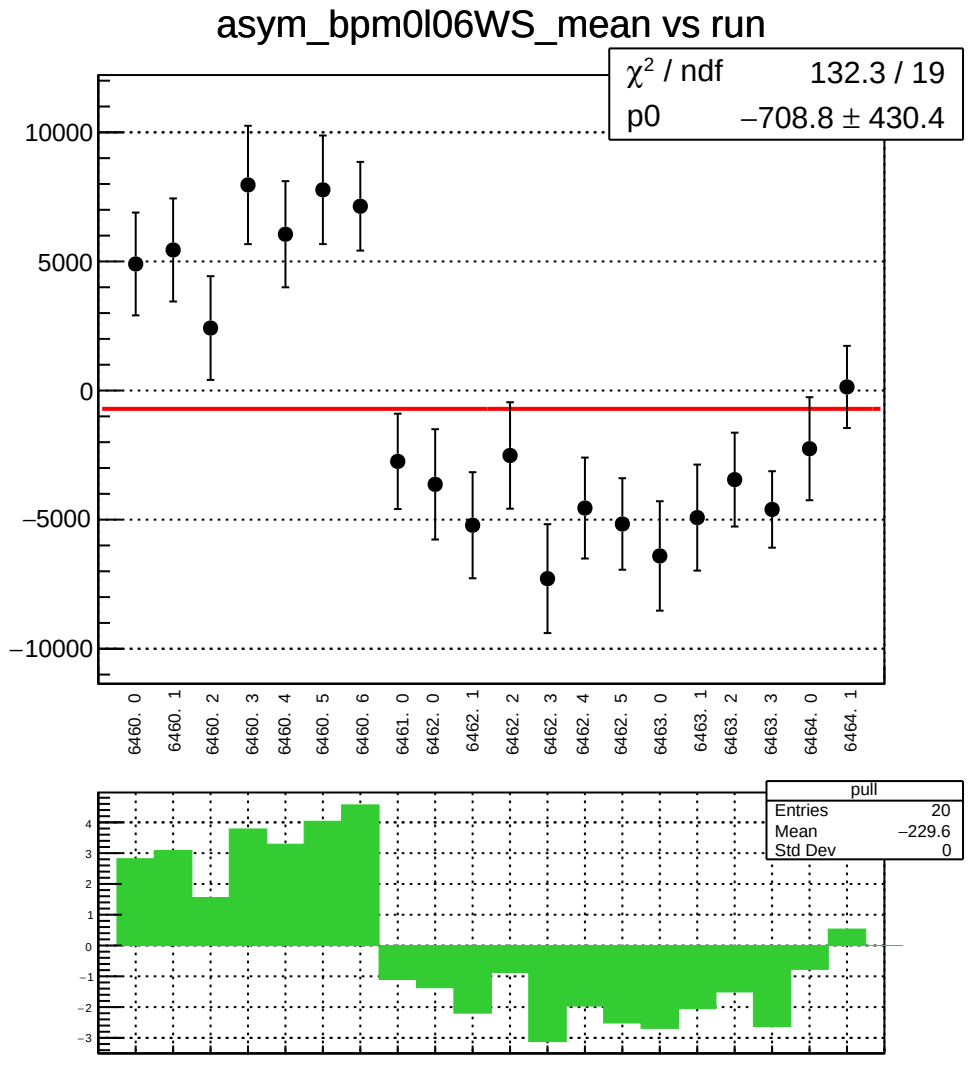

pull1D
Entries 20
Mean 0.03971
Std Dev 2.512
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

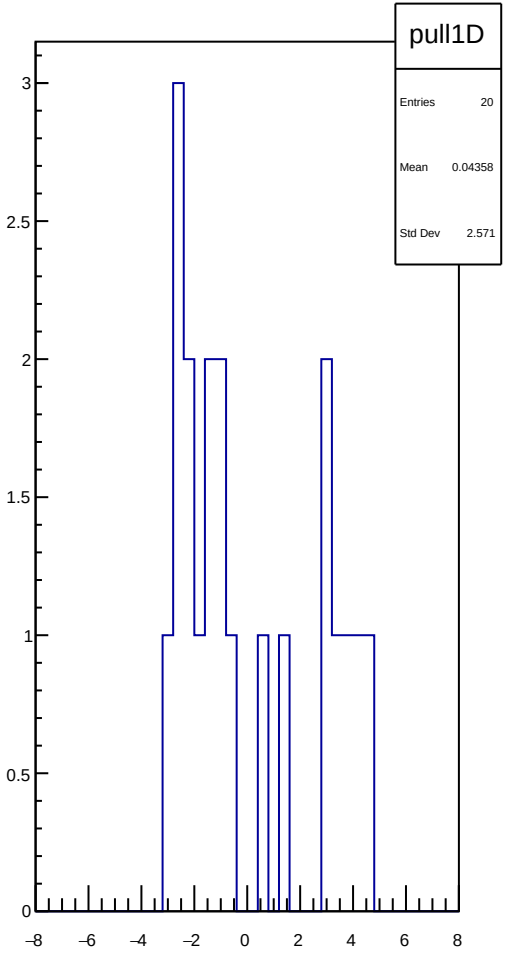

asym_bpm0l04WS_rms vs run
χ² / ndf 1260 / 19
p0 198 ± 0.3116
230
220
210
200
190
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

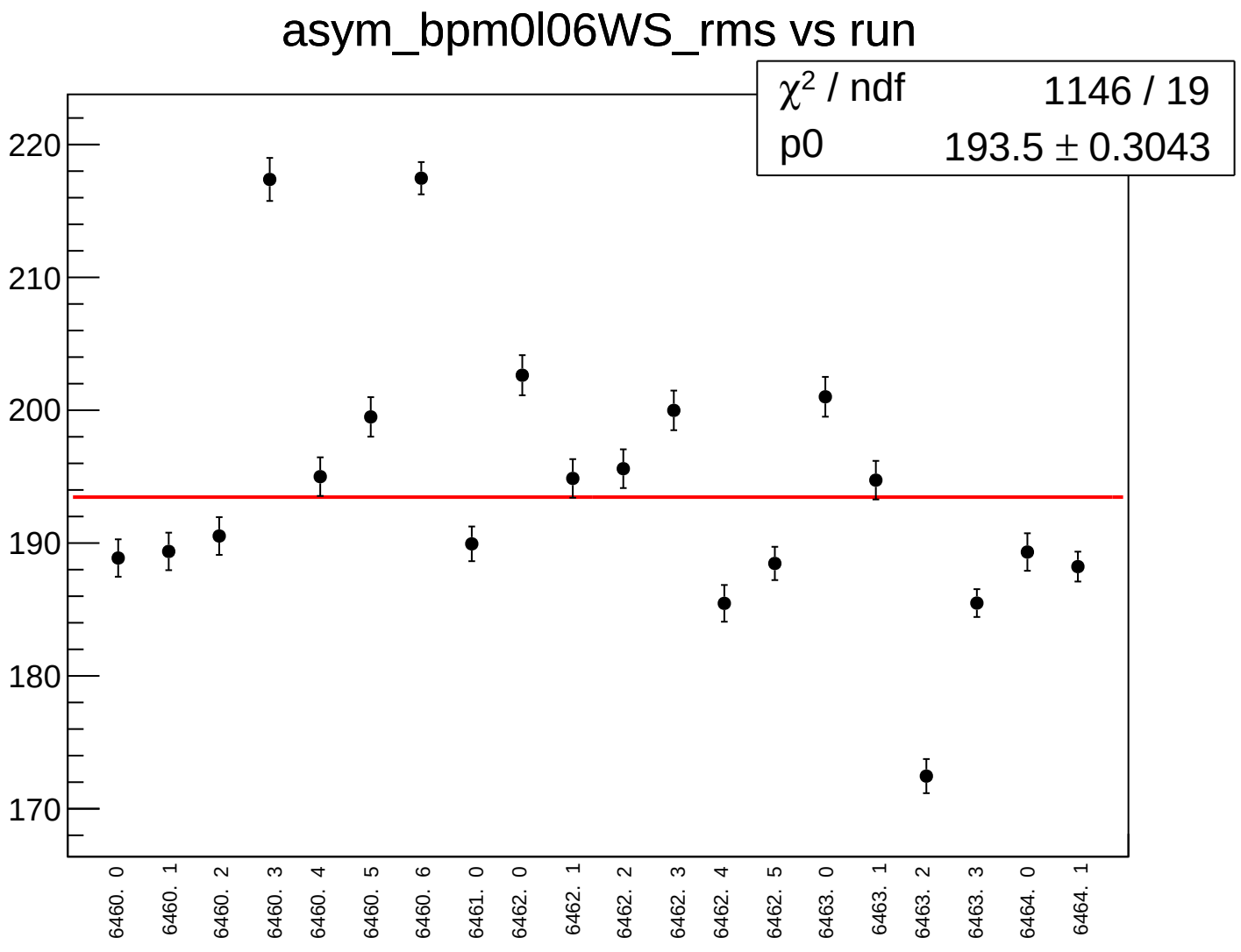

asym_bpm0l05WS_mean vs run
χ² / ndf 122.8 / 19
p0 −576.8 ± 451
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −331.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

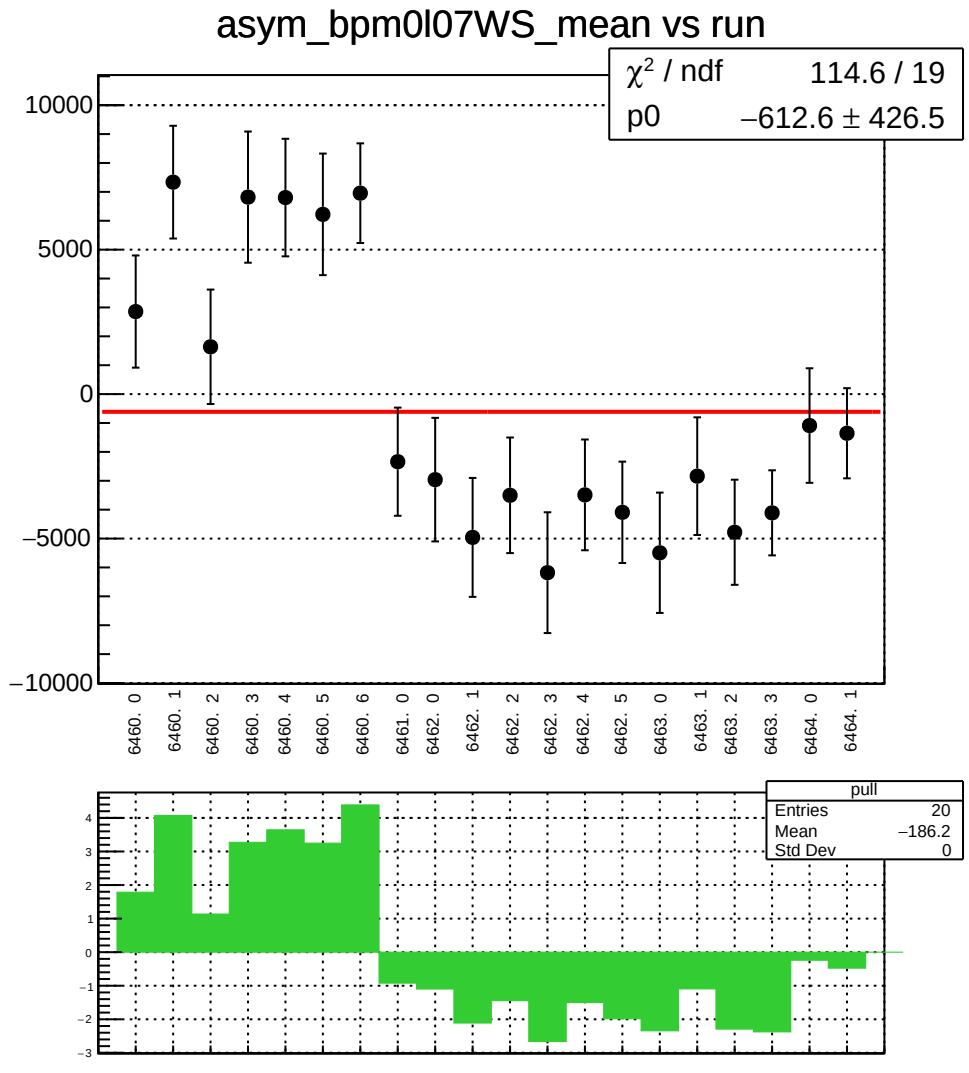

pull1D
Entries 20
Mean 0.02785
Std Dev 2.478
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

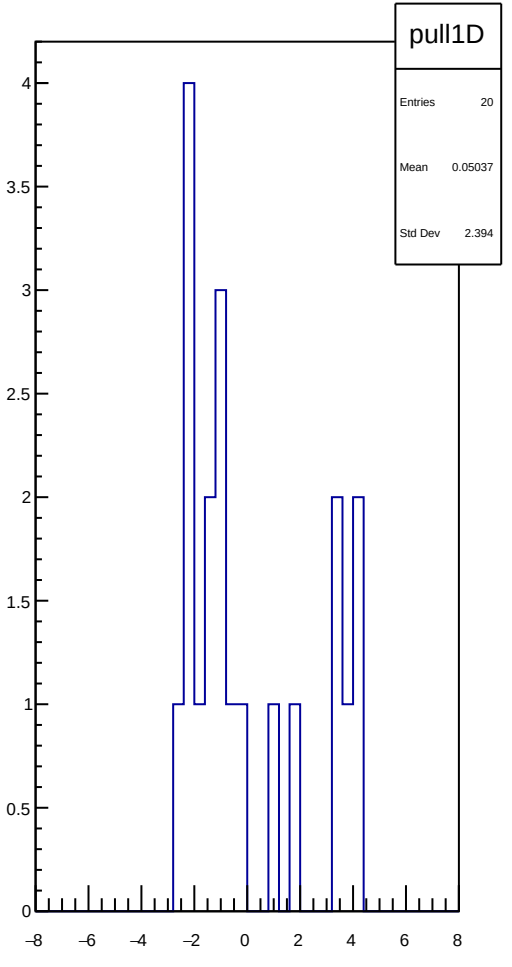

asym_bpm0l05WS_rms vs run
χ² / ndf 1074 / 19
p0 202.7 ± 0.3189
230
220
210
200
190
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

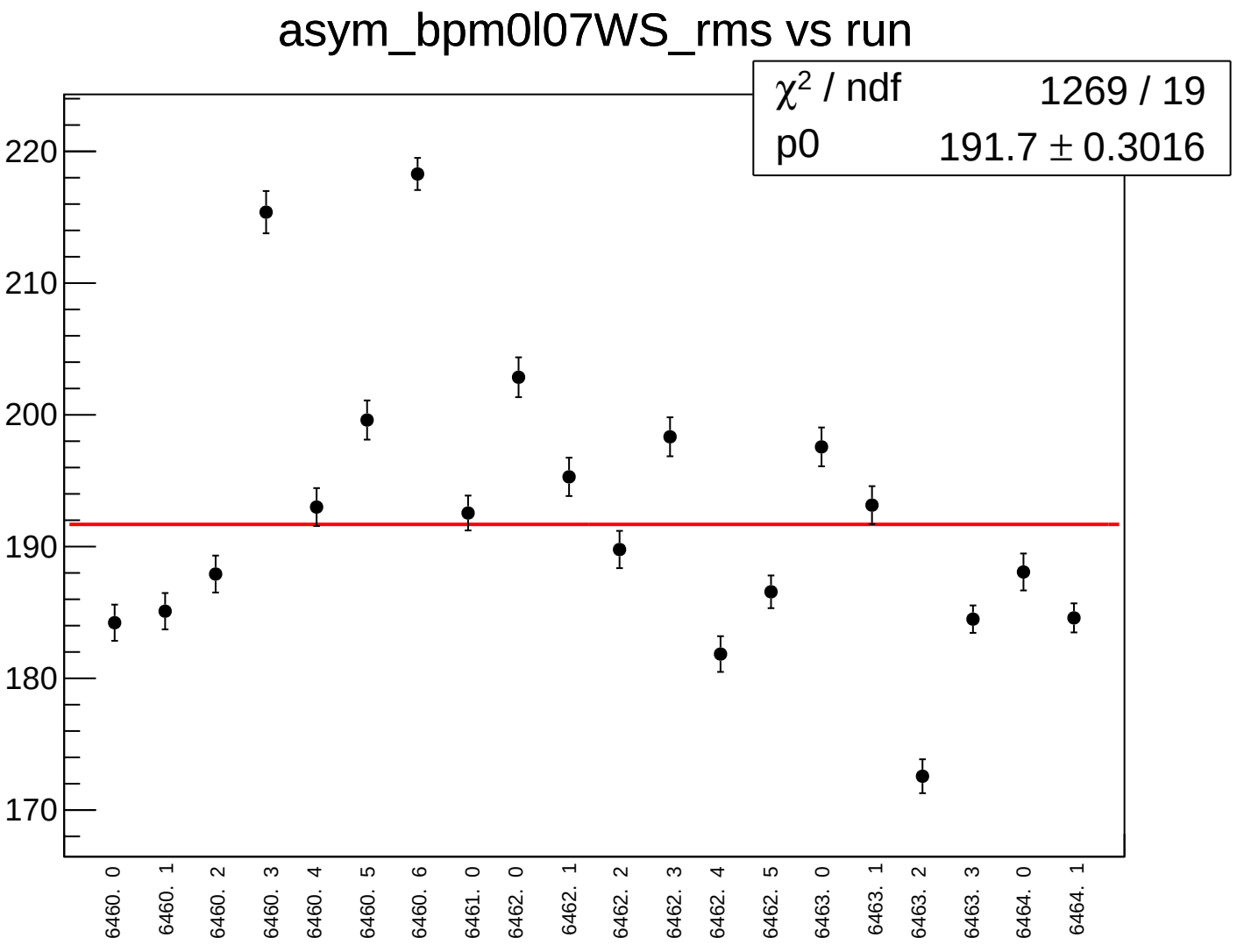

asym_bpm0l06WS_mean vs run
χ² / ndf 132.3 / 19
p0 −708.8 ± 430.4
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −229.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

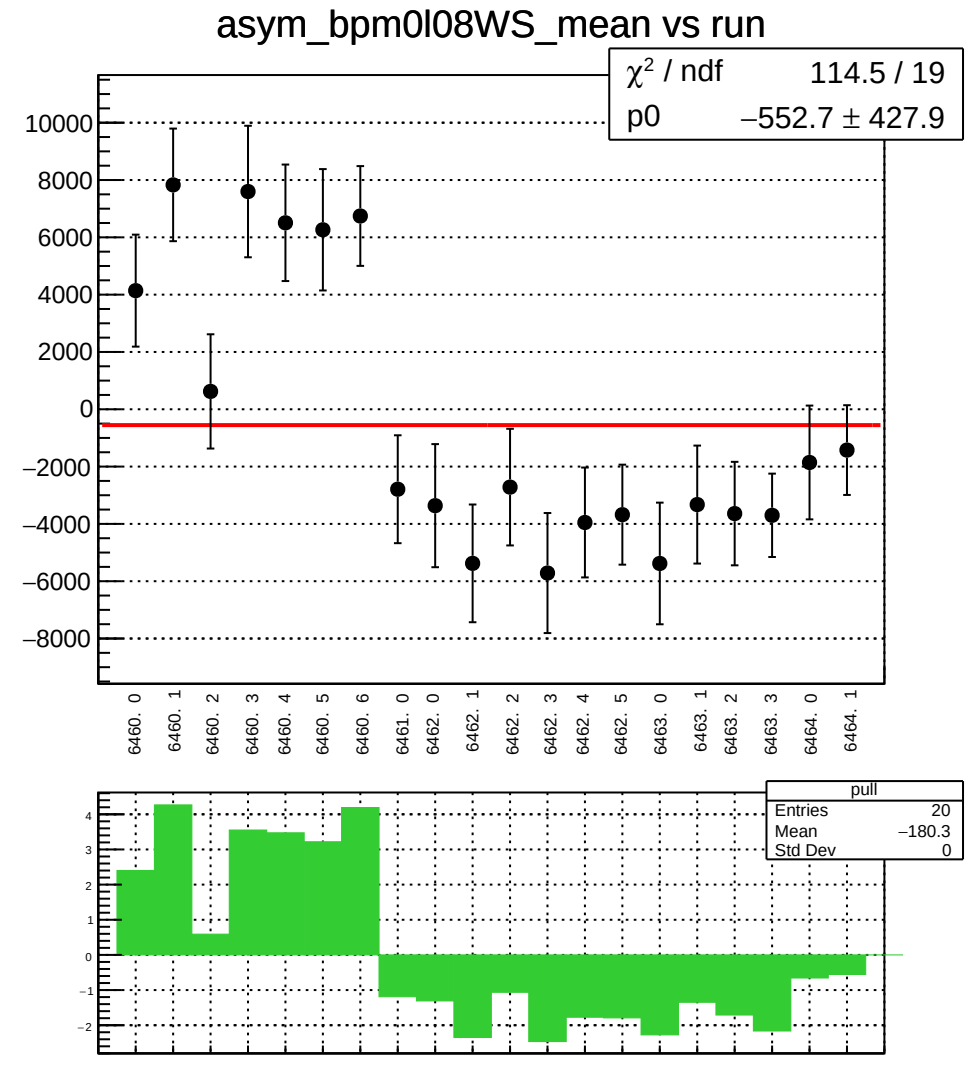

pull1D
Entries 20
Mean 0.04358
Std Dev 2.571
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

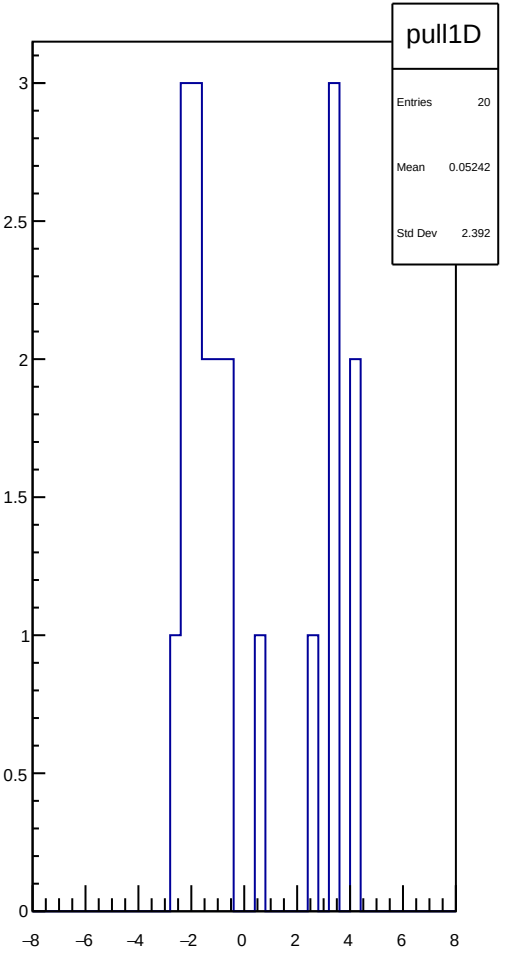

asym_bpm0l06WS_rms vs run
χ² / ndf 1146 / 19
p0 193.5 ± 0.3043
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

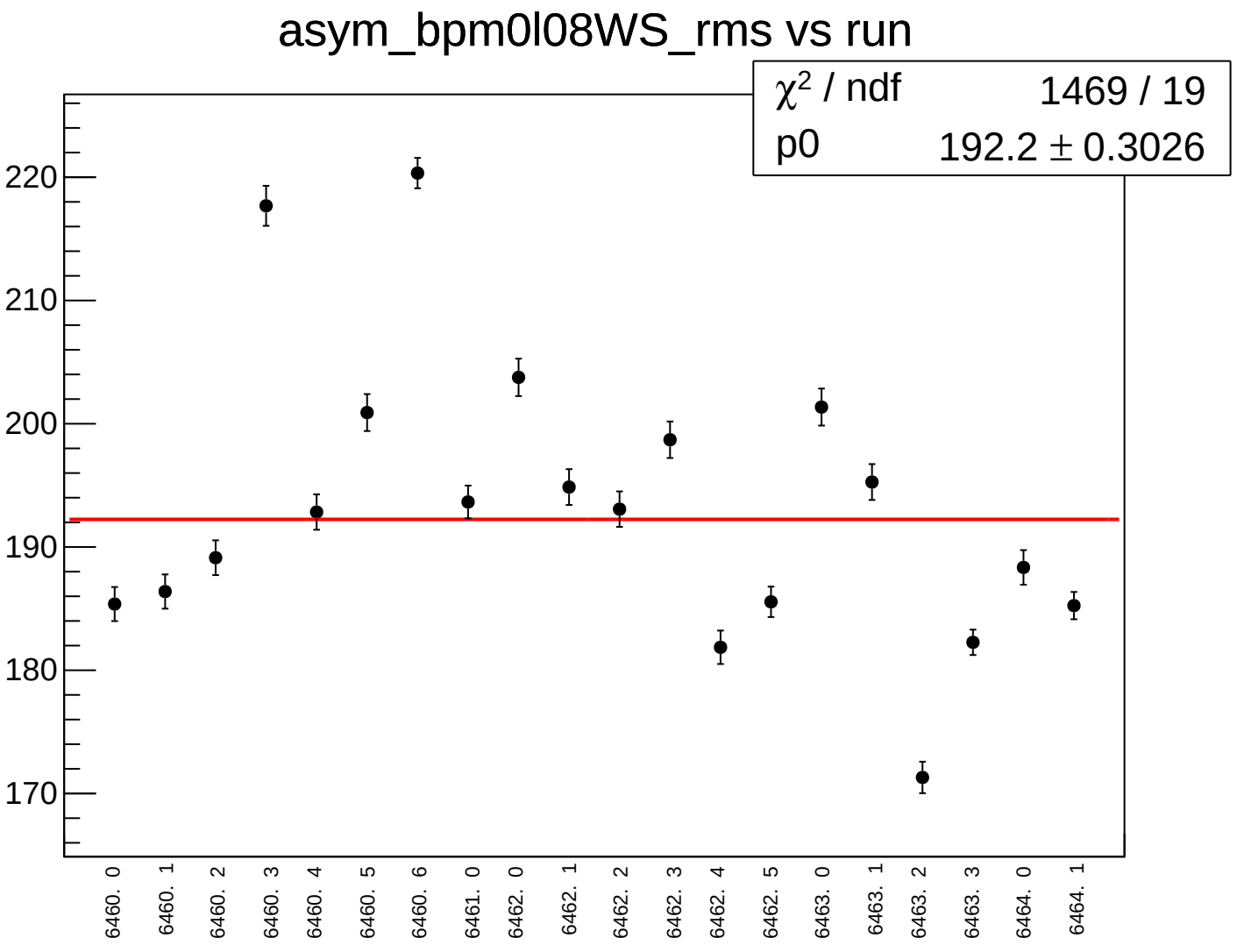

asym_bpm0l07WS_mean vs run
χ² / ndf 114.6 / 19
p0 −612.6 ± 426.5
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −186.2
Std Dev 0
4
3
2
1
0
−1
−2
−3

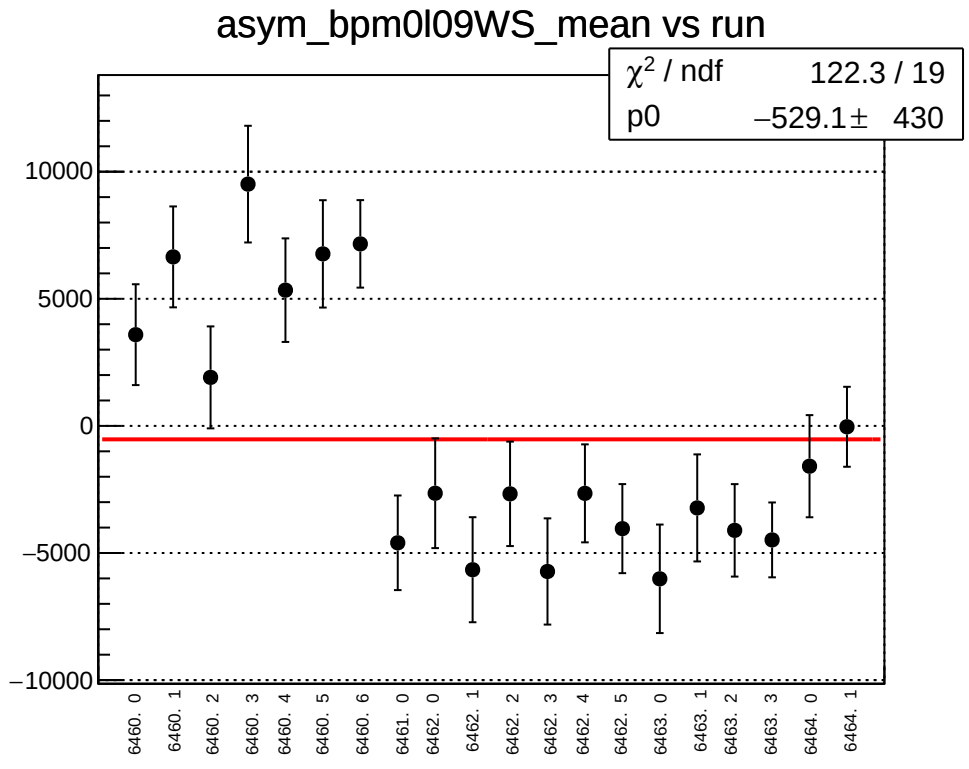

pull1D
Entries 20
Mean 0.05037
Std Dev 2.394
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

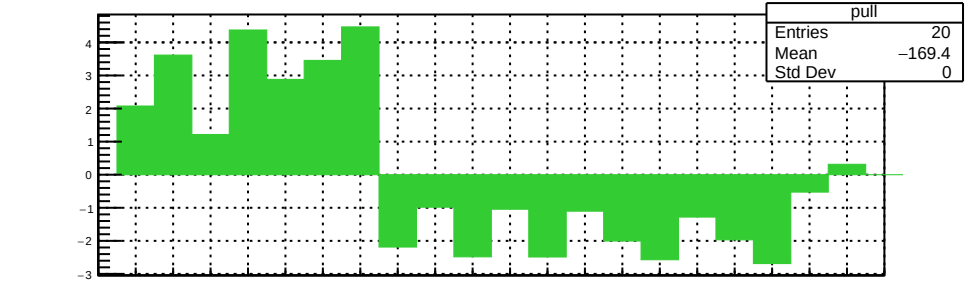

asym_bpm0l07WS_rms vs run
χ² / ndf 1269 / 19
p0 191.7 ± 0.3016
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

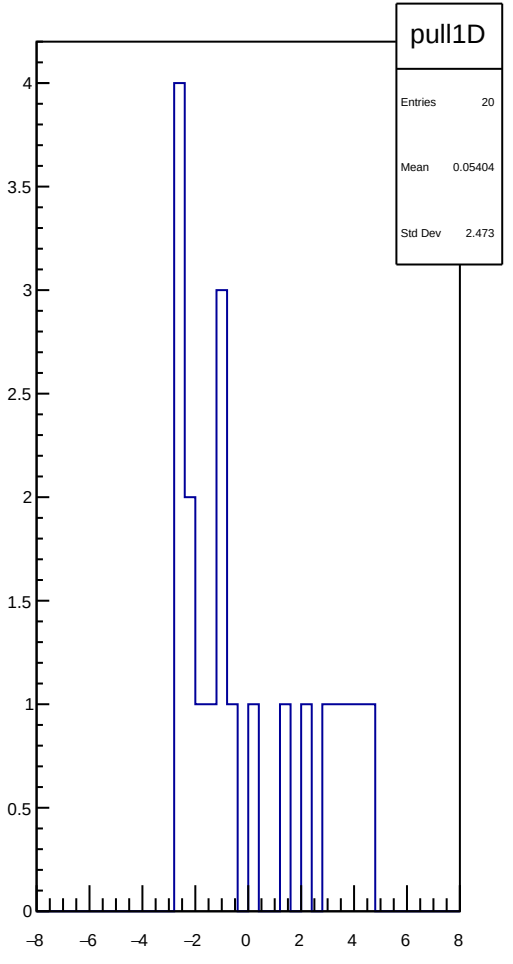

asym_bpm0l08WS_mean vs run
χ² / ndf 114.5 / 19
p0 −552.7 ± 427.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −180.3
Std Dev 0
4
3
2
1
0
−1
−2

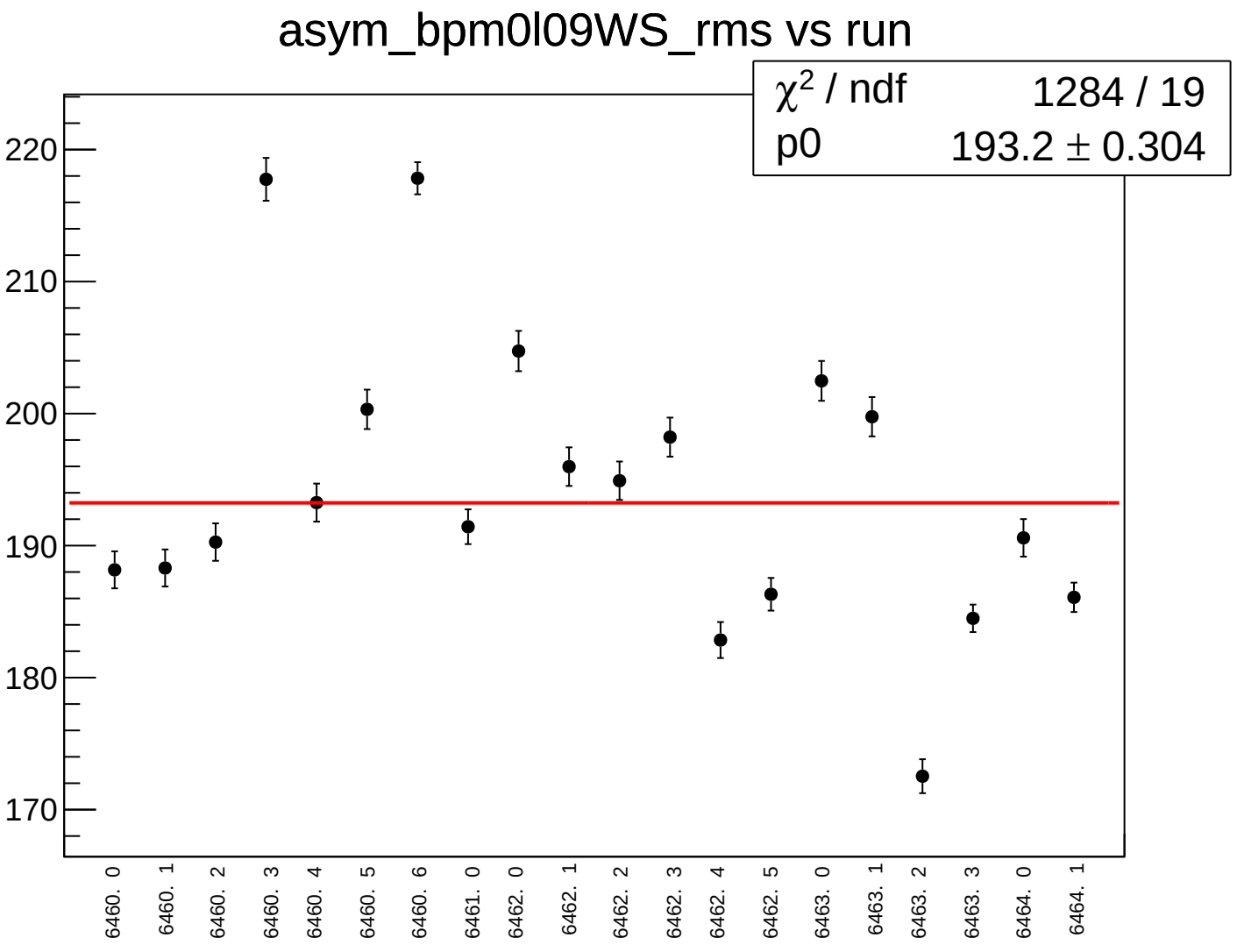

pull1D
Entries 20
Mean 0.05242
Std Dev 2.392
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

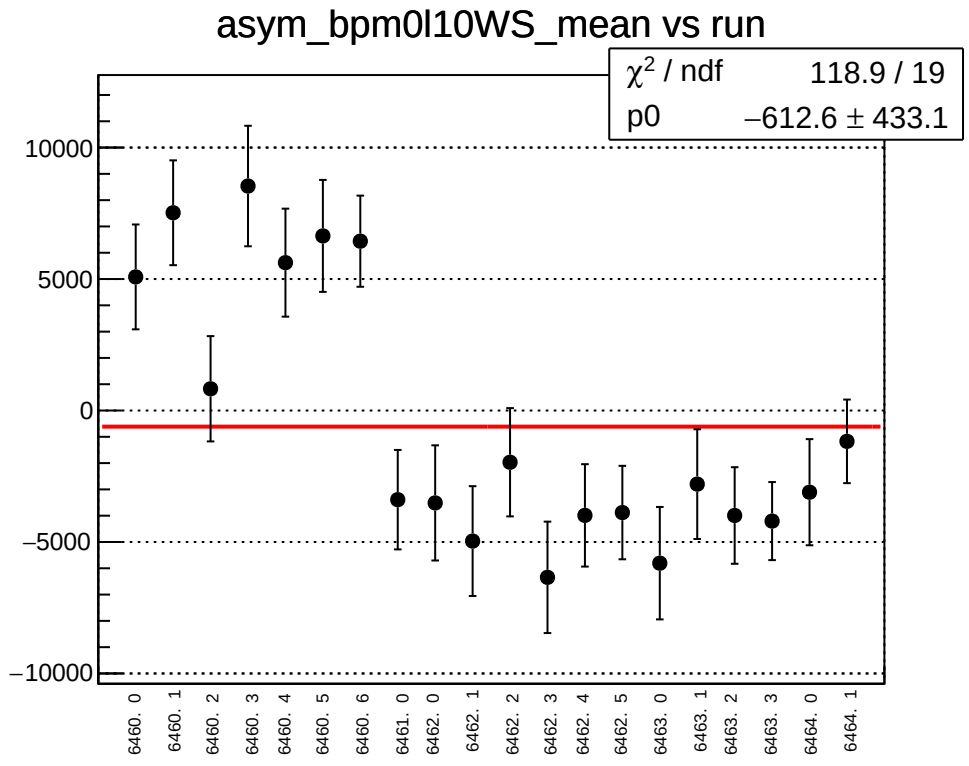

asym_bpm0l08WS_rms vs run
χ² / ndf 1469 / 19
p0 192.2 ± 0.3026
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

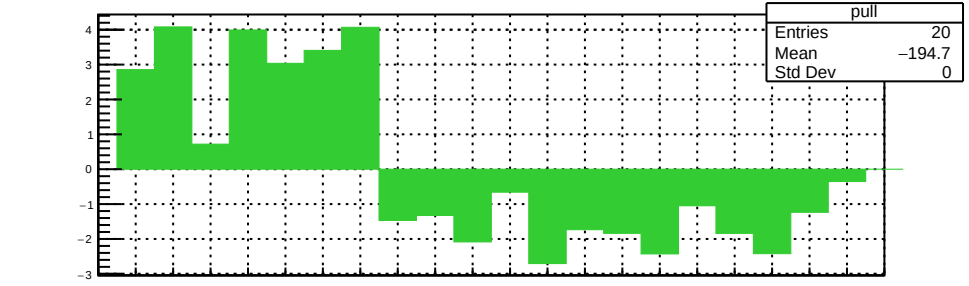

asym_bpm0l09WS_mean vs run
χ² / ndf 122.3 / 19
p0 −529.1 ± 430
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

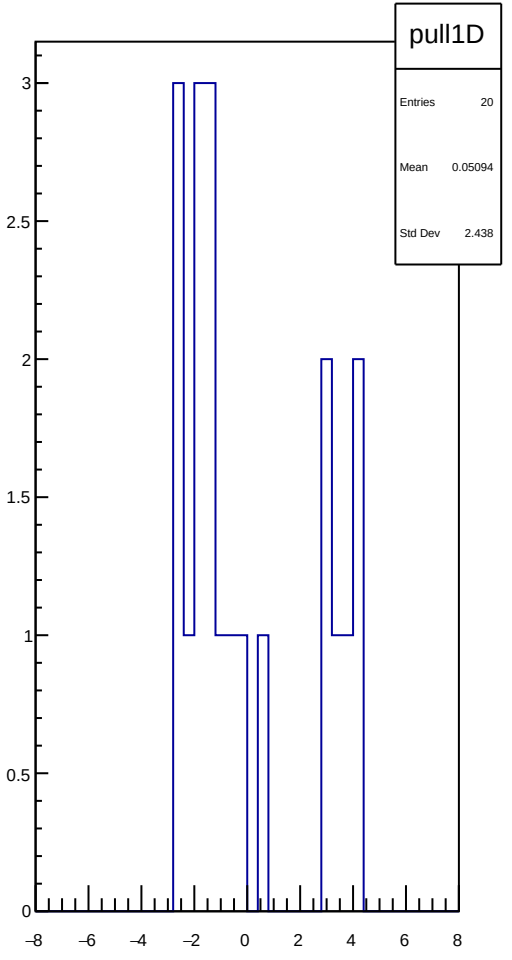

pull
Entries 20
Mean −169.4
Std Dev 0

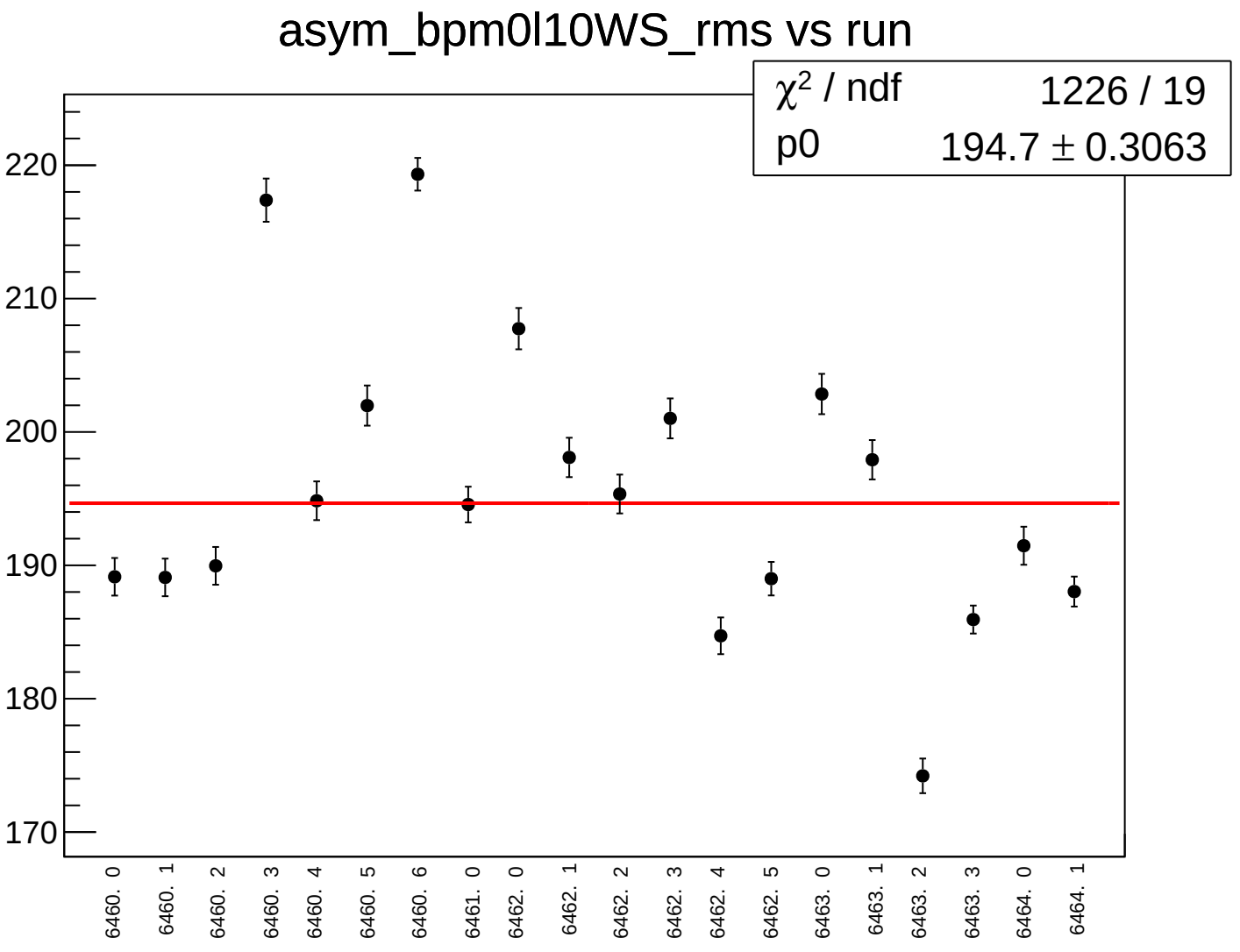

pull1D
Entries 20
Mean 0.05404
Std Dev 2.473

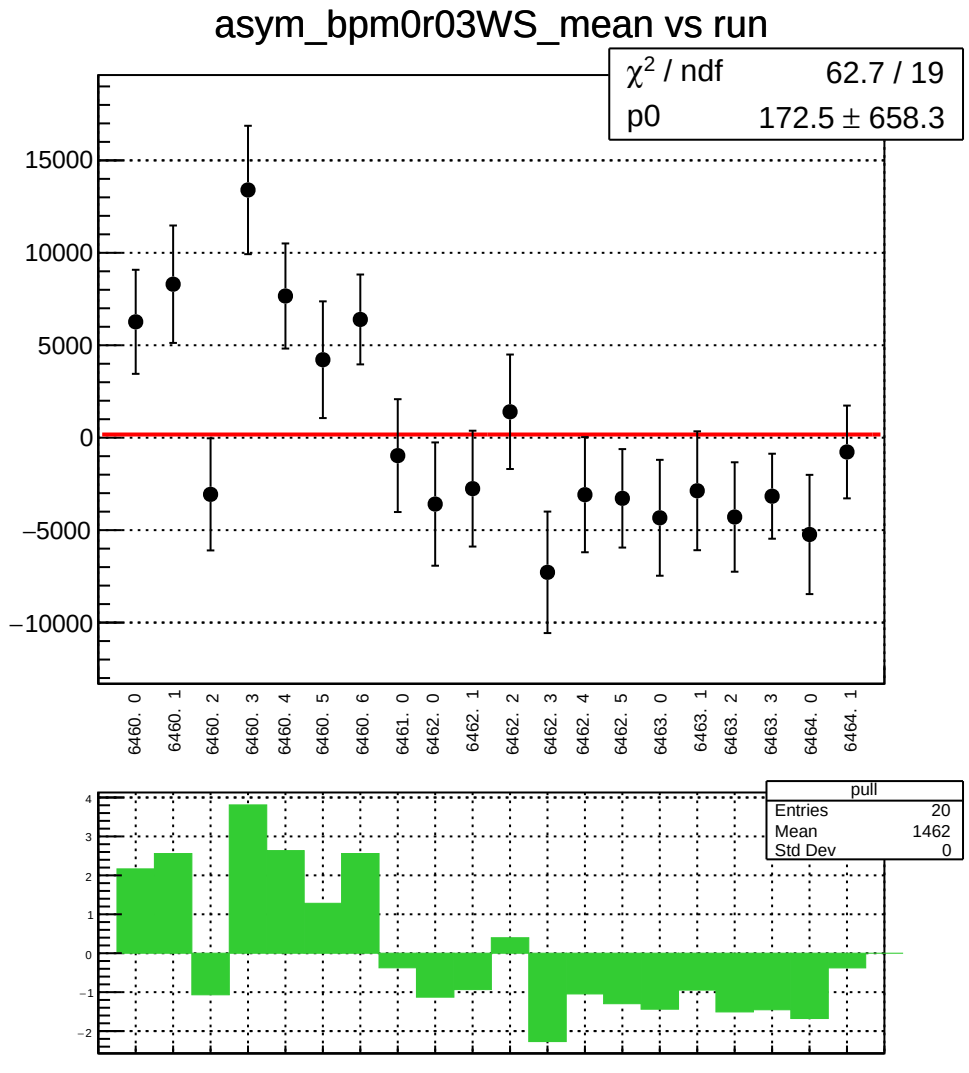

asym_bpm0l09WS_rms vs run
χ^2 / ndf 1284 / 19
p0 193.2 ± 0.304
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

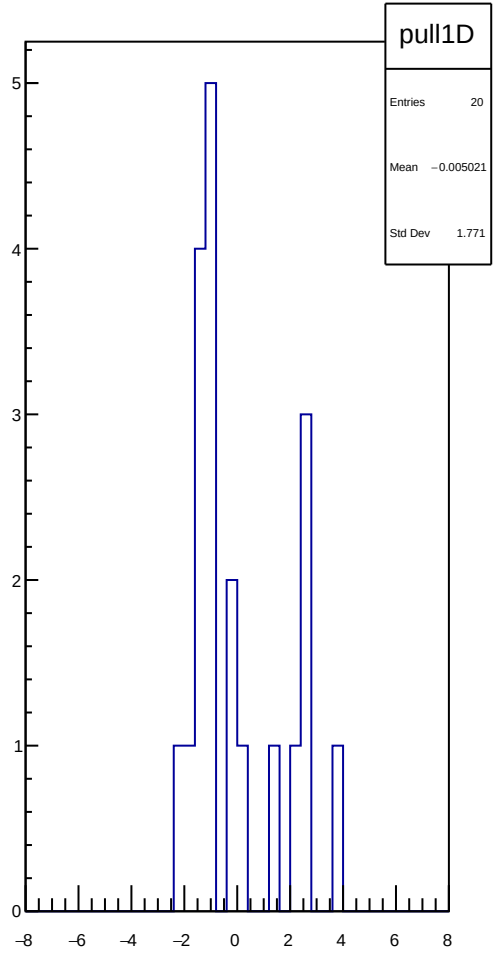

asym_bpm0l10WS_mean vs run
χ² / ndf 118.9 / 19
p0 −612.6 ± 433.1
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

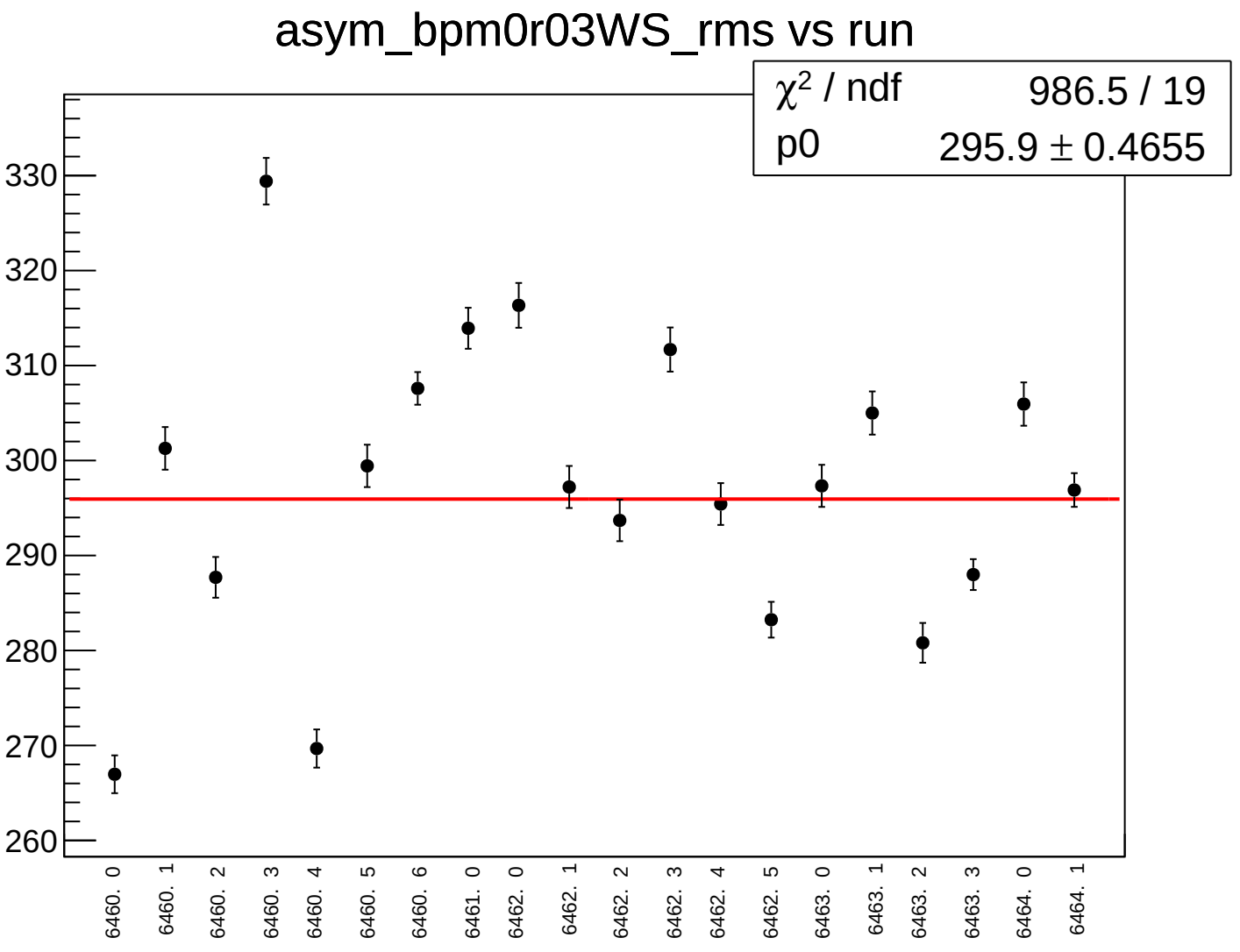

pull
Entries 20
Mean −194.7
Std Dev 0

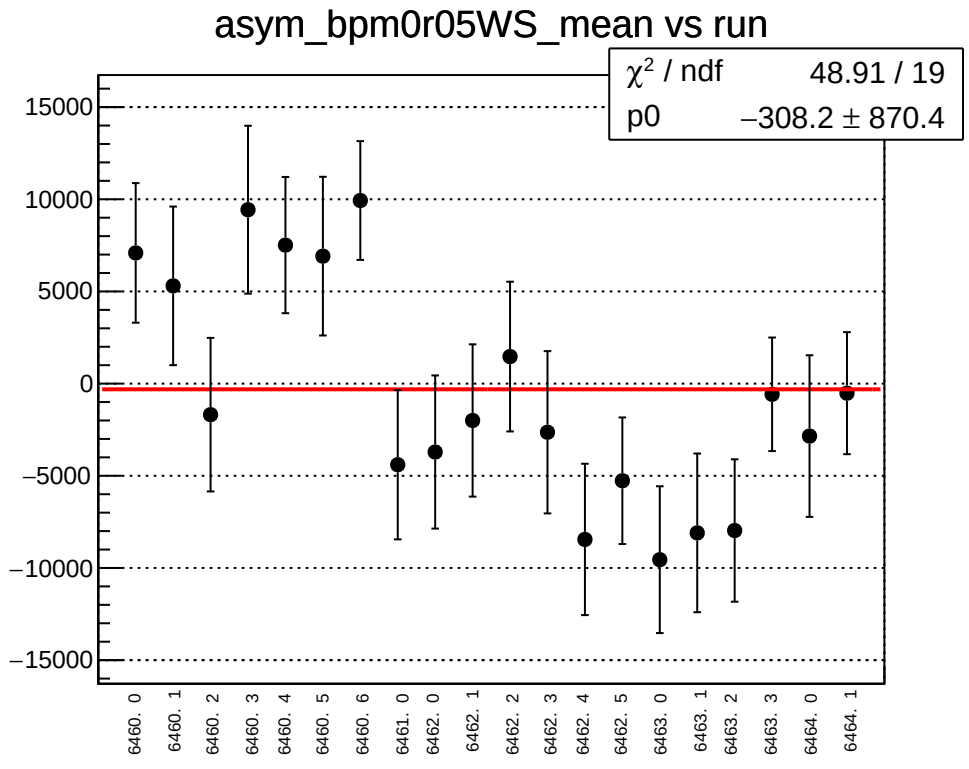

pull1D
Entries 20
Mean 0.05094
Std Dev 2.438

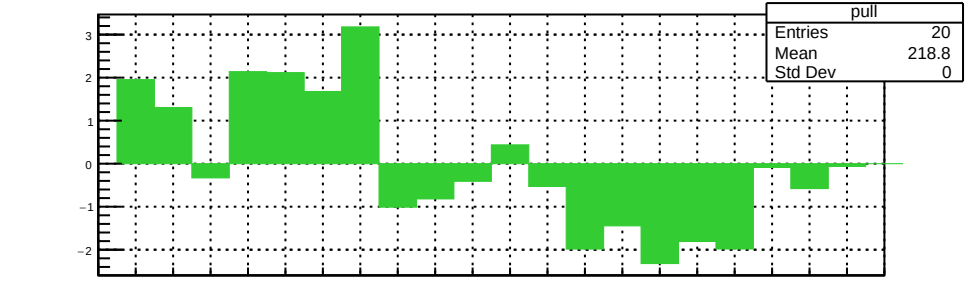

asym_bpm0l10WS_rms vs run
χ² / ndf 1226 / 19
p0 194.7 ± 0.3063
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

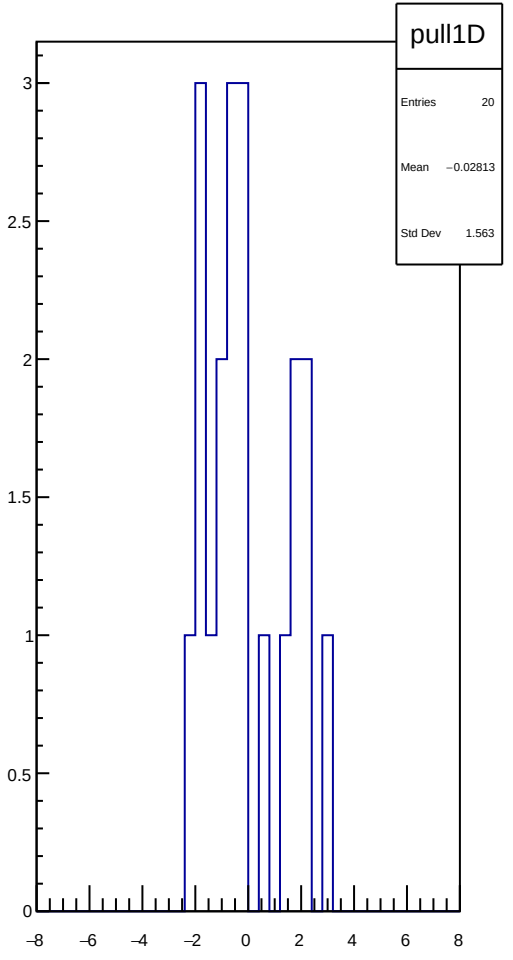

asym_bpm0r03WS_mean vs run
χ² / ndf 62.7 / 19
p0 172.5 ± 658.3
15000
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1462
Std Dev 0
4
3
2
1
0
−1
−2

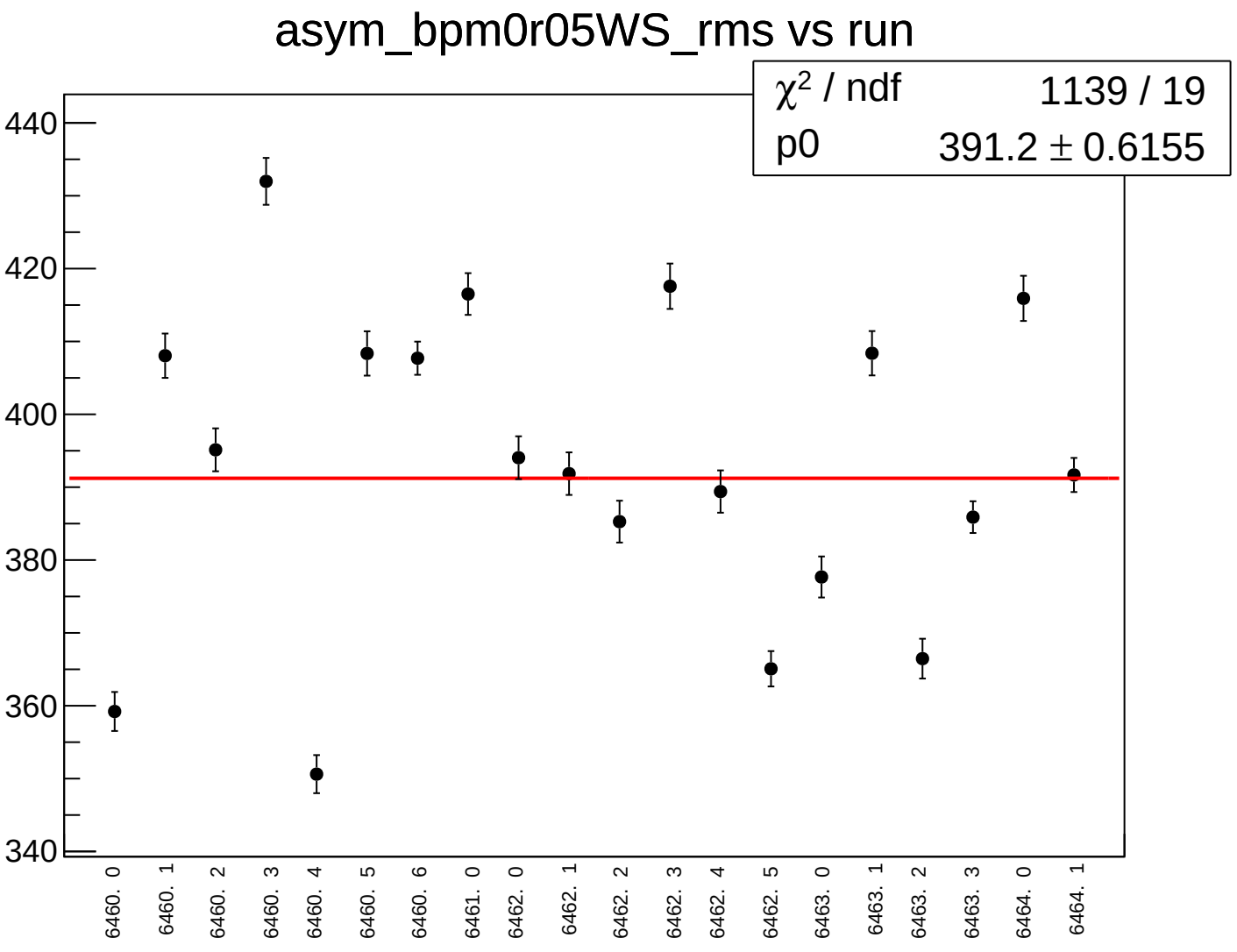

pull1D
Entries 20
Mean −0.005021
Std Dev 1.771
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

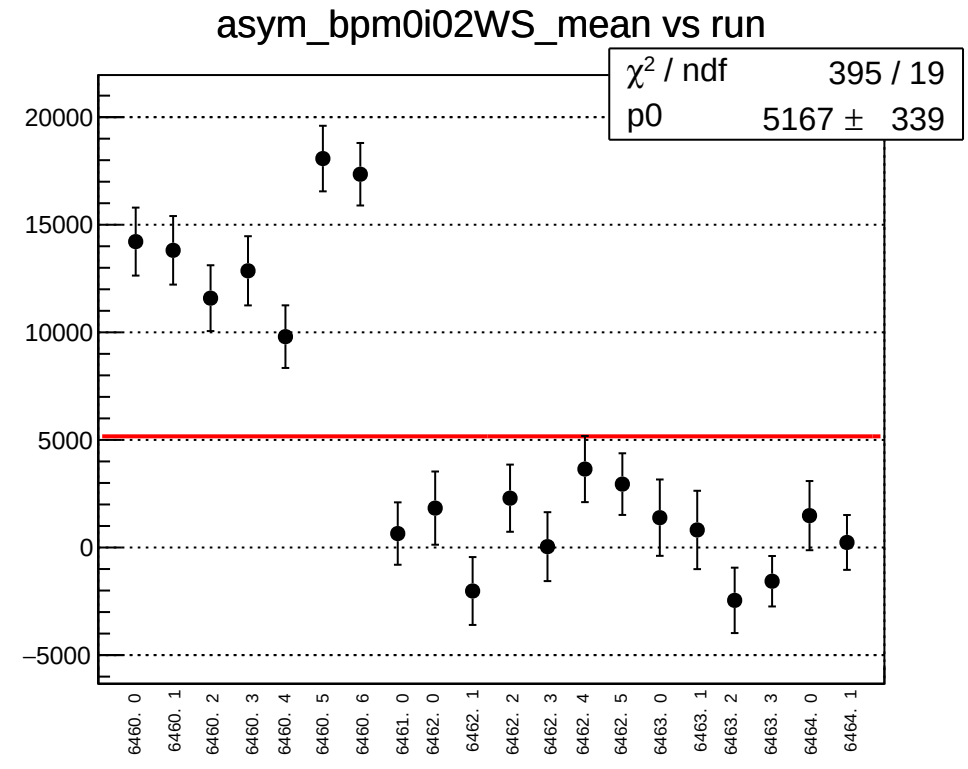

asym_bpm0r03WS_rms vs run
χ² / ndf 986.5 / 19
p0 295.9 ± 0.4655
330
320
310
300
290
280
270
260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

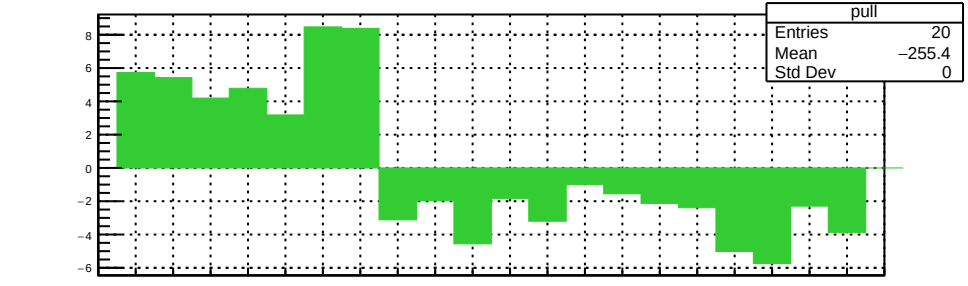

asym_bpm0r05WS_mean vs run
χ² / ndf 48.91 / 19
p0 −308.2 ± 870.4
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

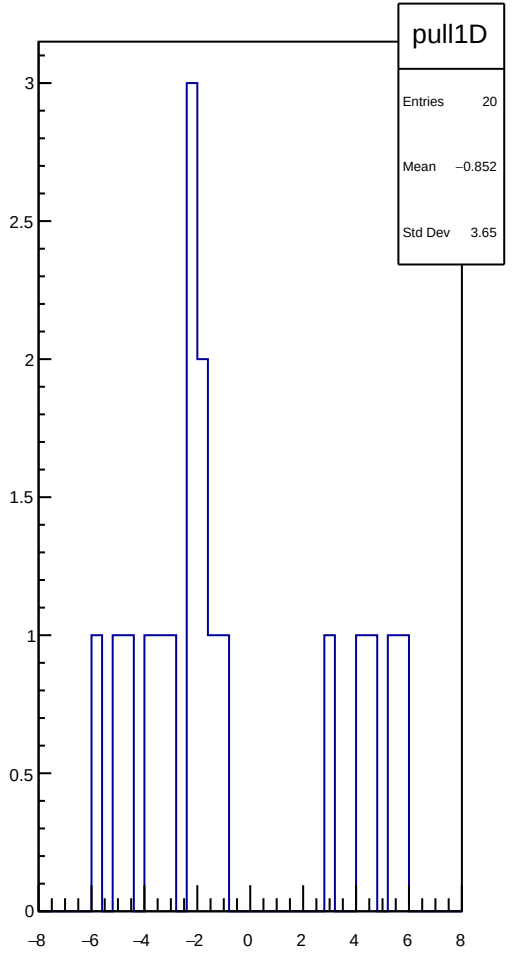

pull
Entries 20
Mean 218.8
Std Dev 0
3
2
1
0
−1
−2

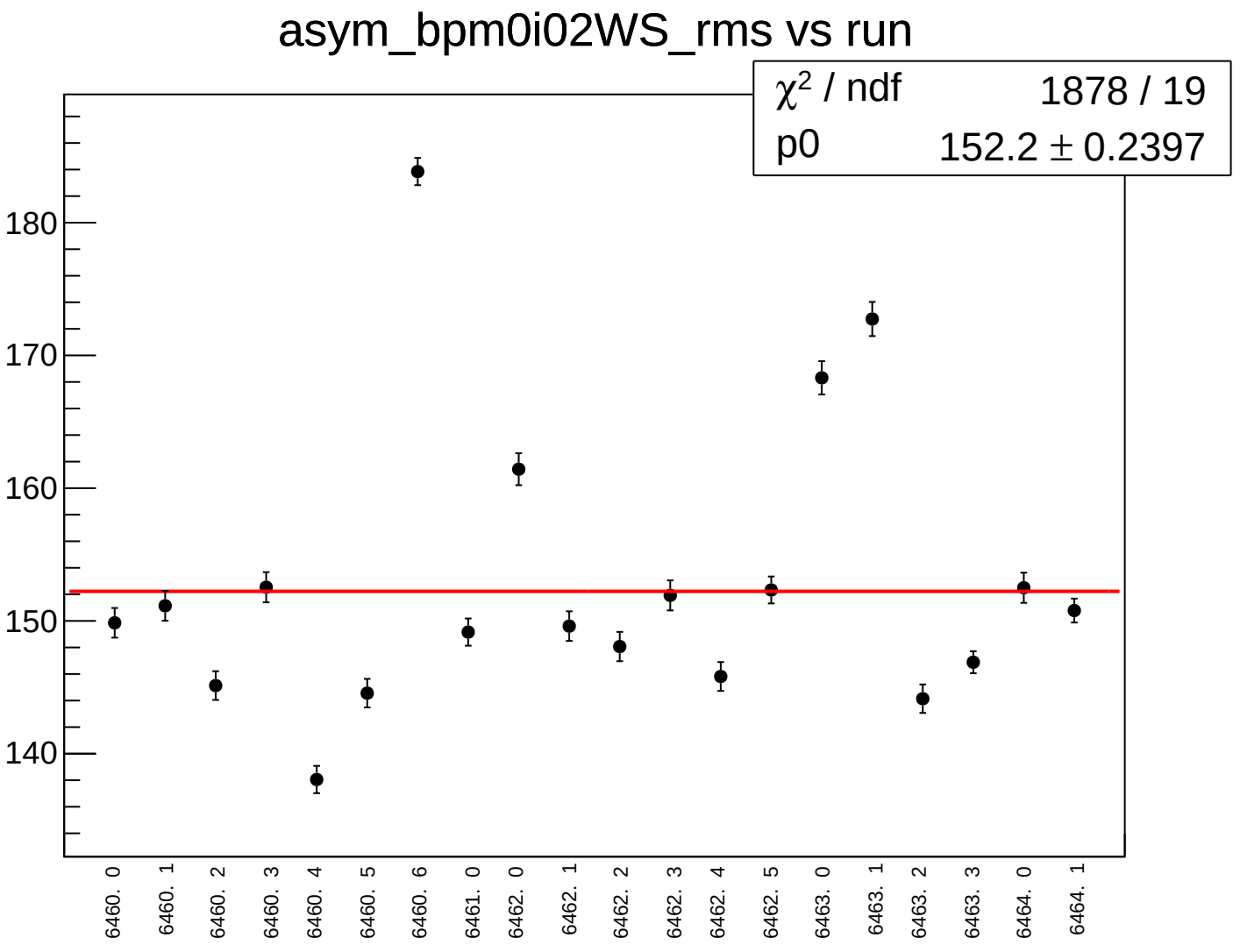

pull1D
Entries 20
Mean −0.02813
Std Dev 1.563
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

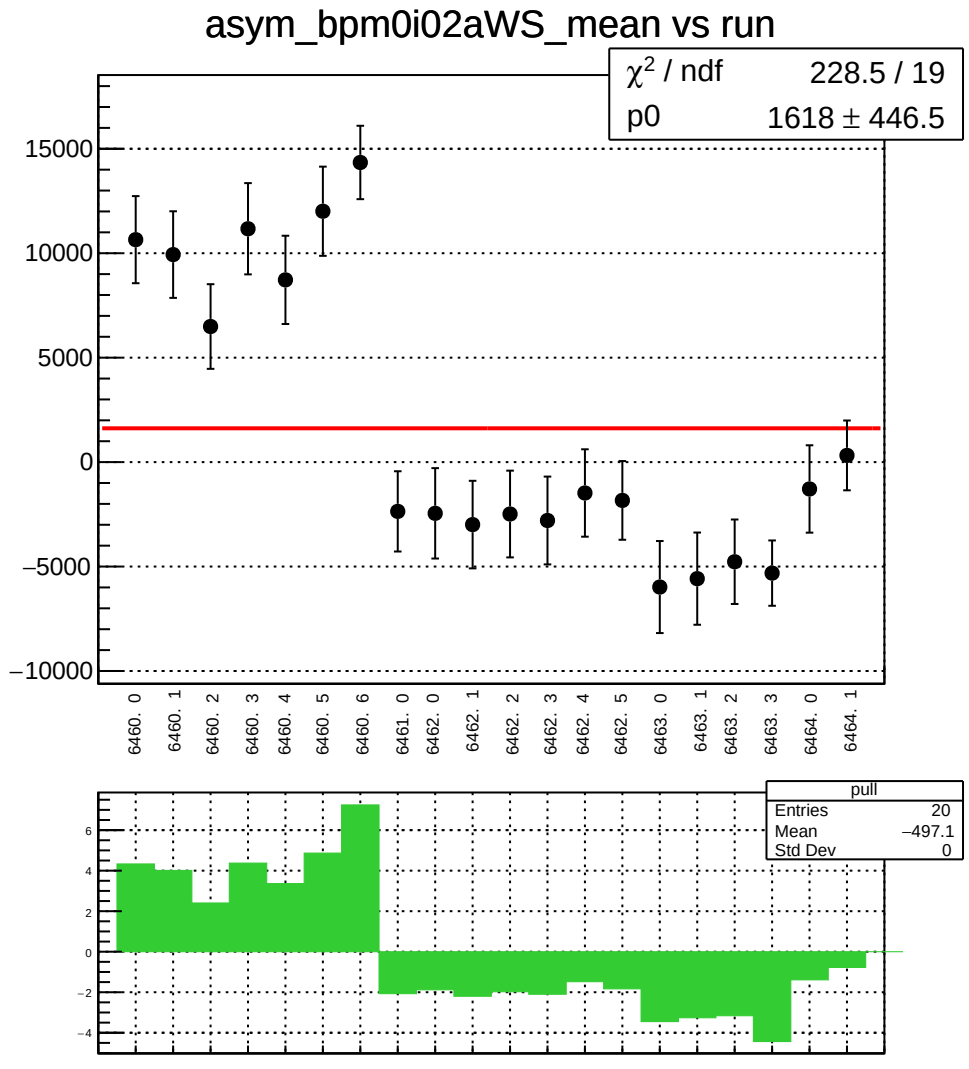

asym_bpm0r05WS_rms vs run
χ² / ndf 1139 / 19
p0 391.2 ± 0.6155
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

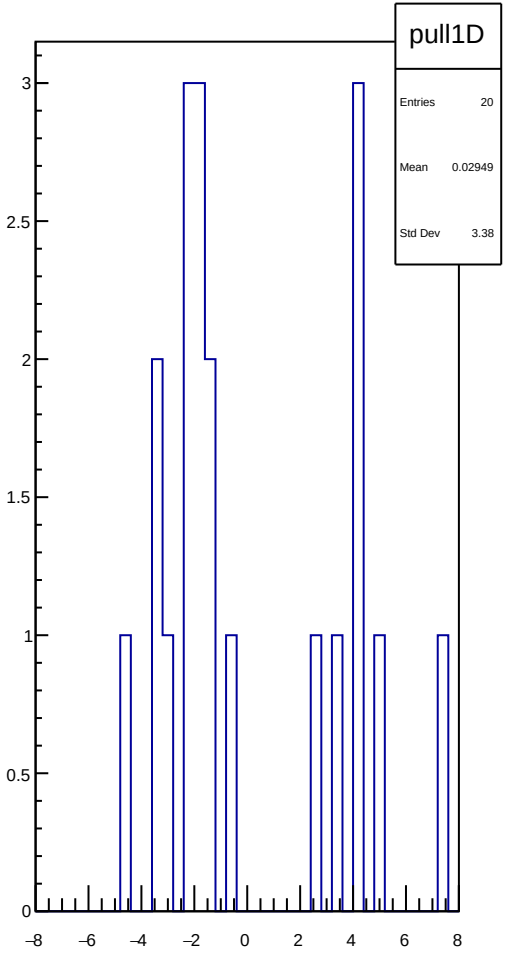

asym_bpm0i02WS_mean vs run
χ² / ndf 395 / 19
p0 5167 ± 339
20000
15000
10000
5000
0
−5000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

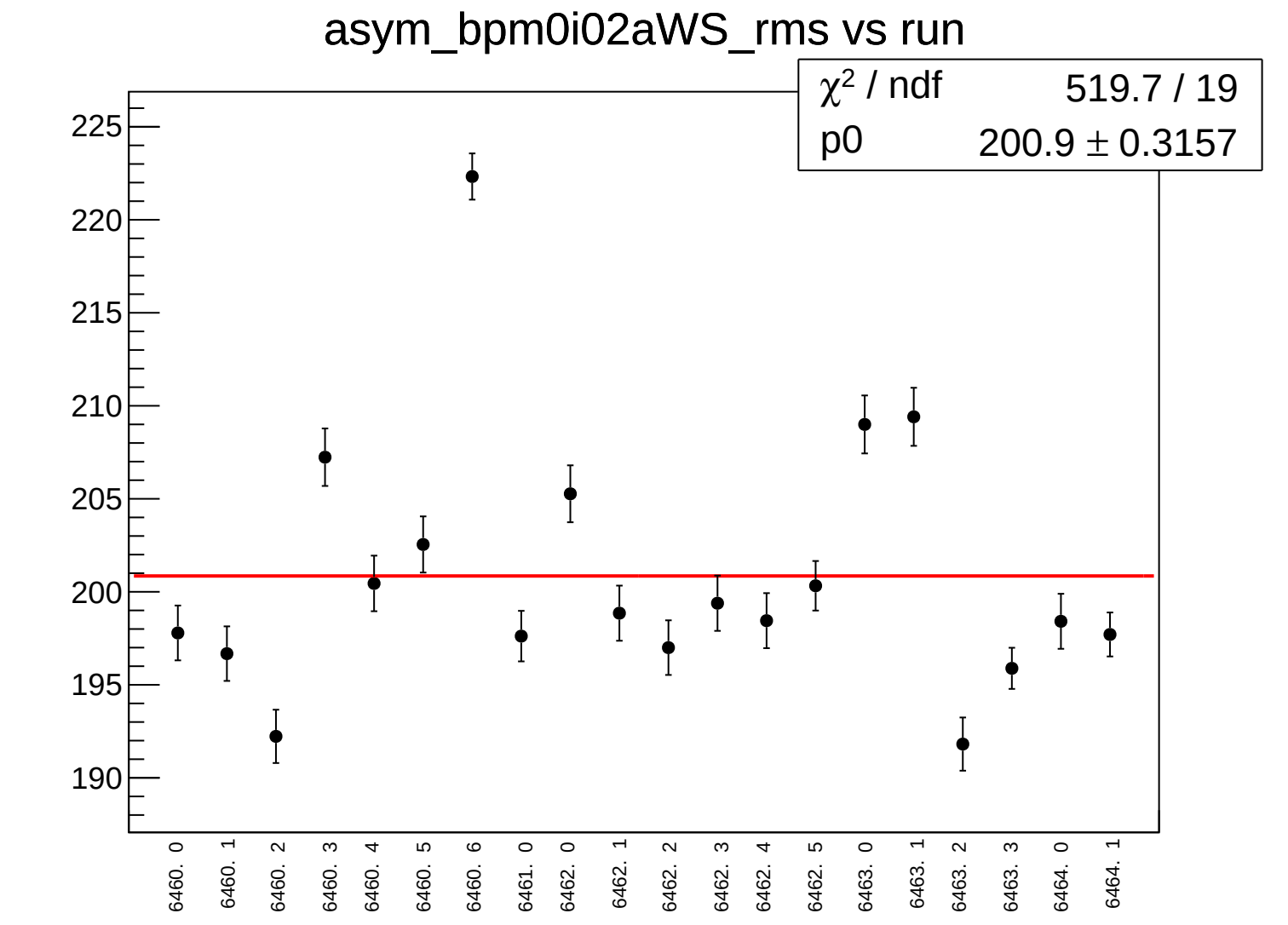

pull
Entries 20
Mean −255.4
Std Dev 0
8
6
4
2
0
−2
−4
−6

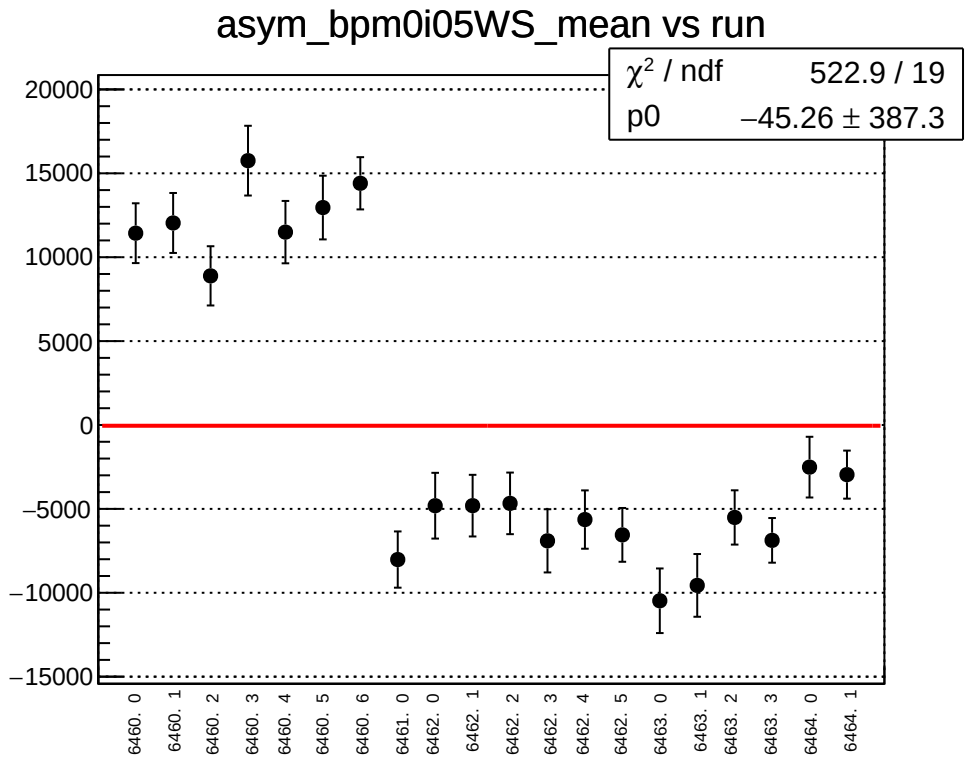

pull1D
Entries 20
Mean −0.852
Std Dev 3.65
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

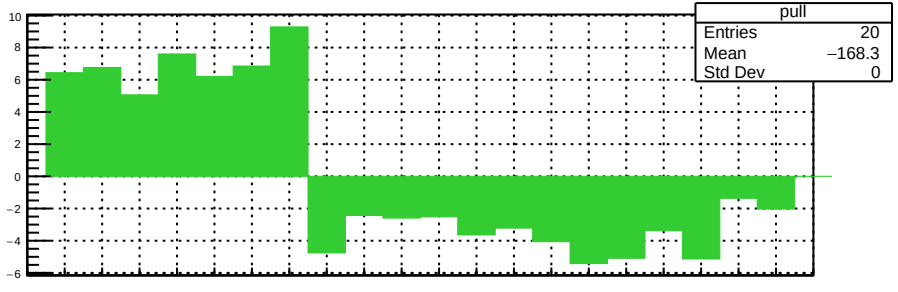

asym_bpm0i02WS_rms vs run
χ² / ndf 1878 / 19
p0 152.2 ± 0.2397
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

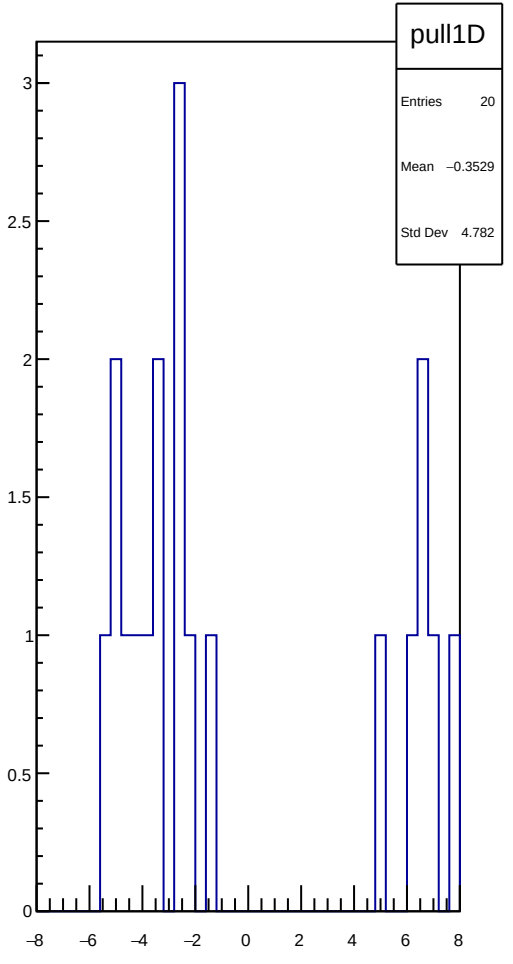

asym_bpm0i02aWS_mean vs run
χ² / ndf 228.5 / 19
p0 1618 ± 446.5
15000
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −497.1
Std Dev 0
6
4
2
0
−2
−4

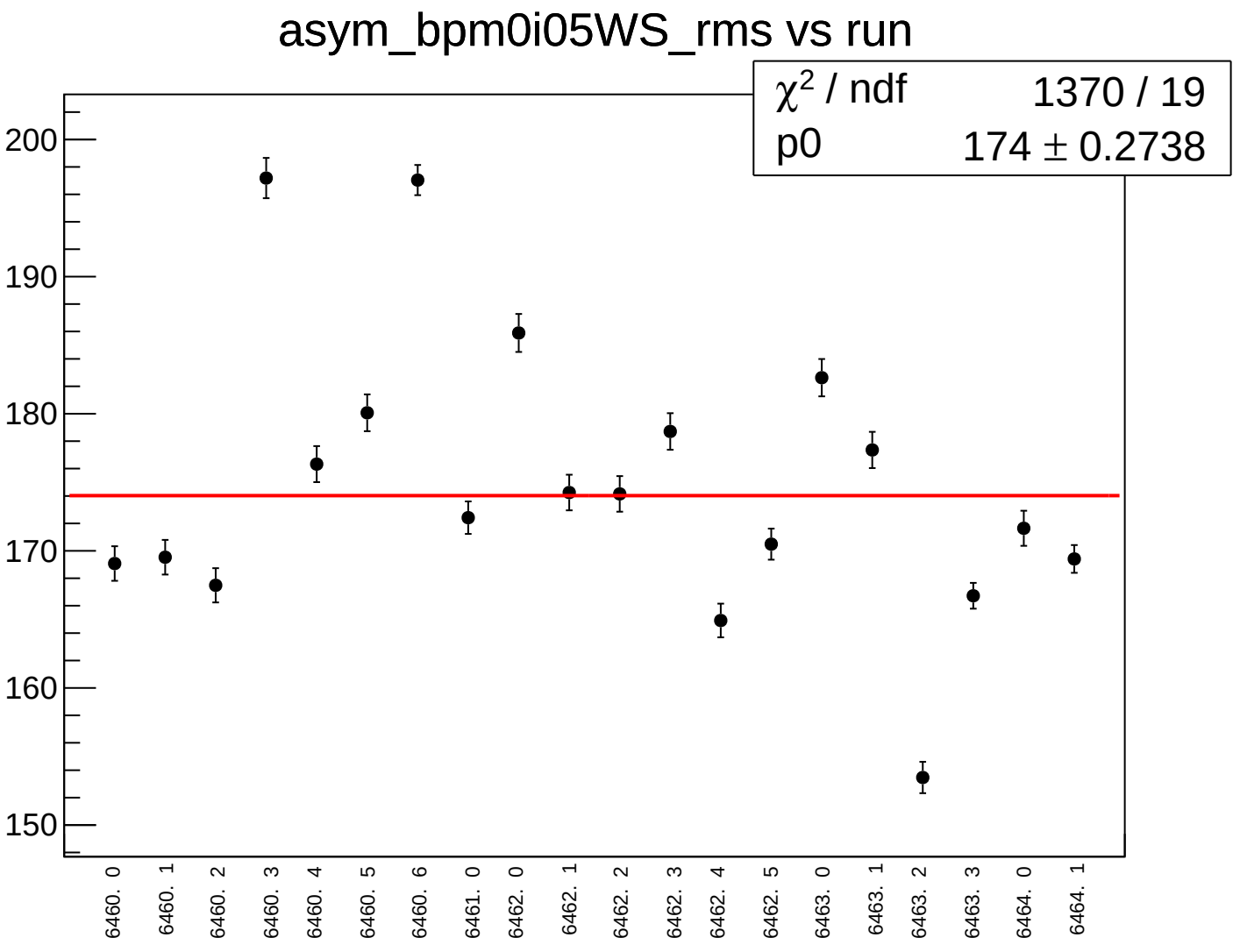

pull1D
Entries 20
Mean 0.02949
Std Dev 3.38
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

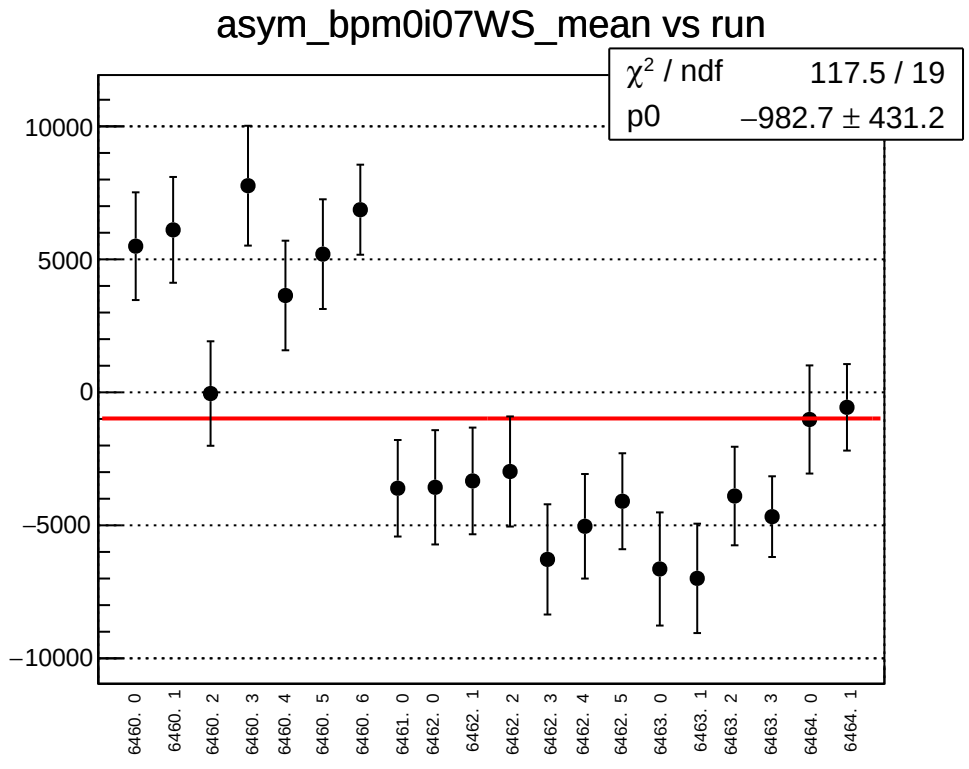

asym_bpm0i02aWS_rms vs run
χ² / ndf 519.7 / 19
p0 200.9 ± 0.3157
225
220
215
210
205
200
195
190
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

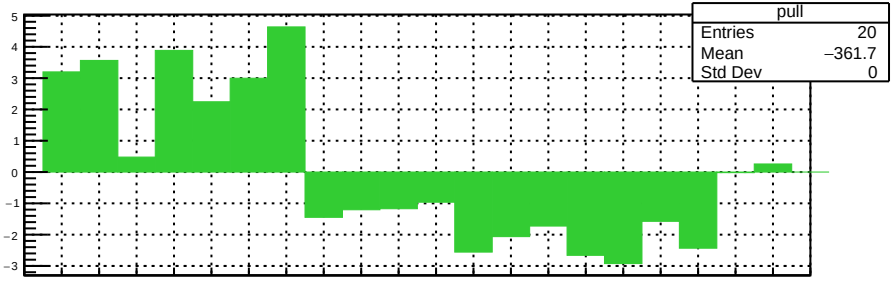

asym_bpm0i05WS_mean vs run
χ² / ndf 522.9 / 19
p0 −45.26 ± 387.3
20000
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

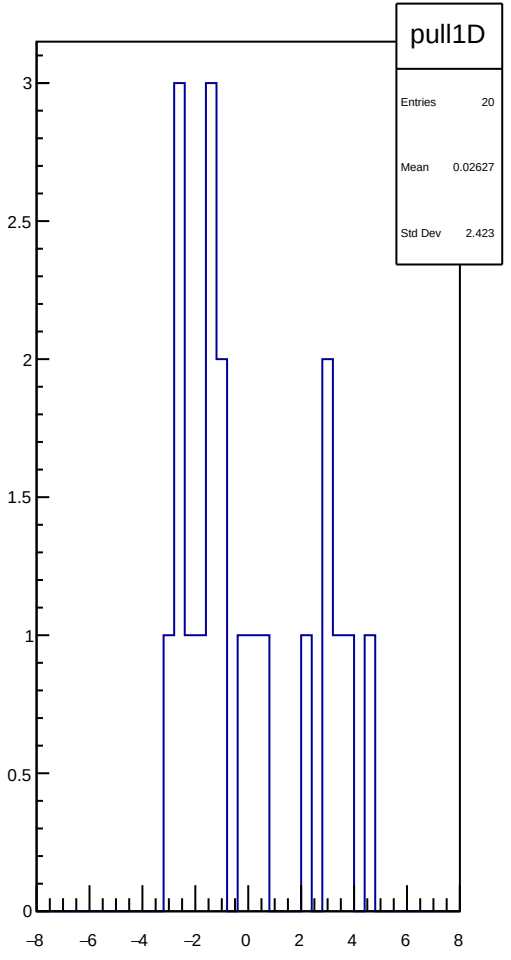

pull
Entries 20
Mean −168.3
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

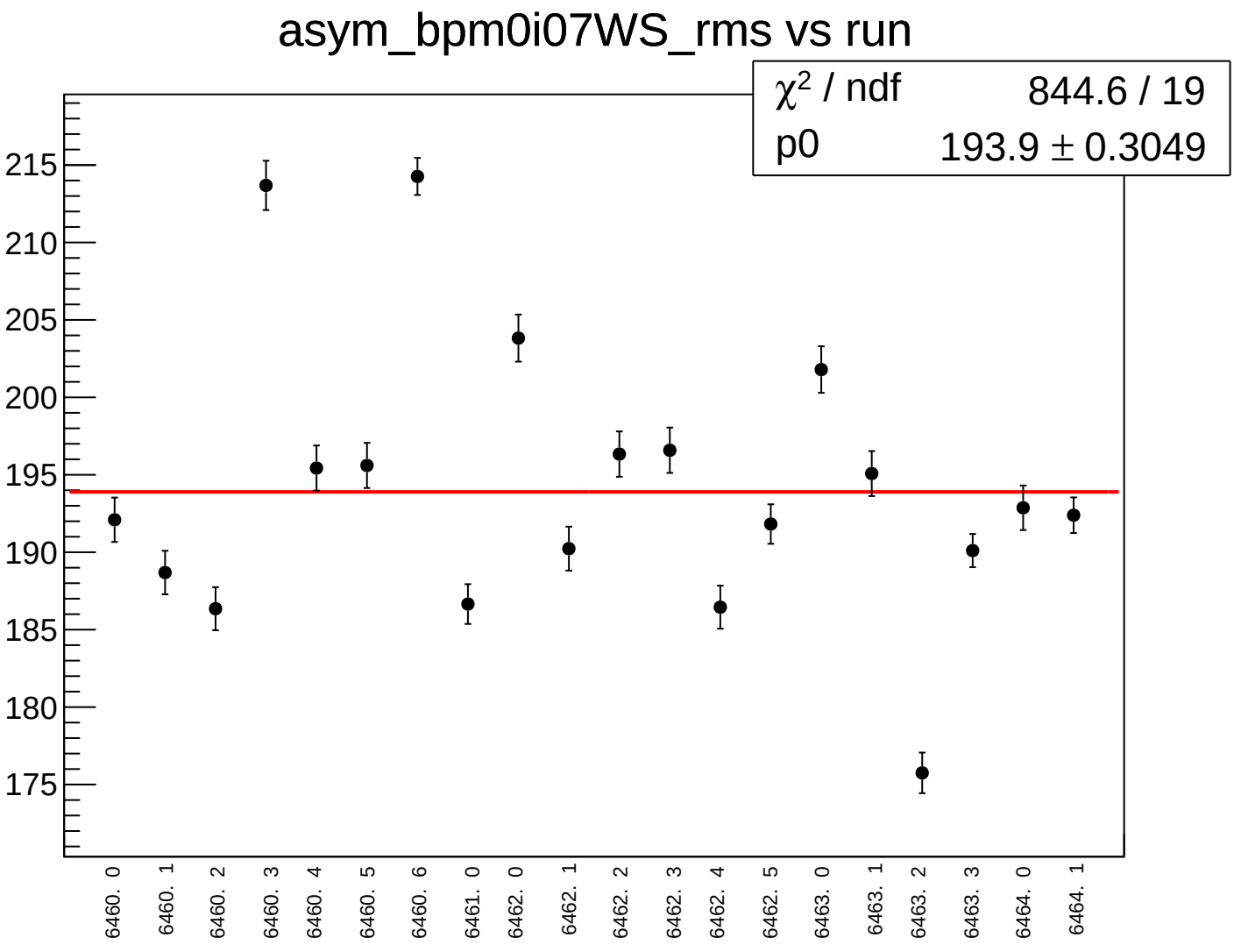

pull1D
Entries 20
Mean −0.3529
Std Dev 4.782
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

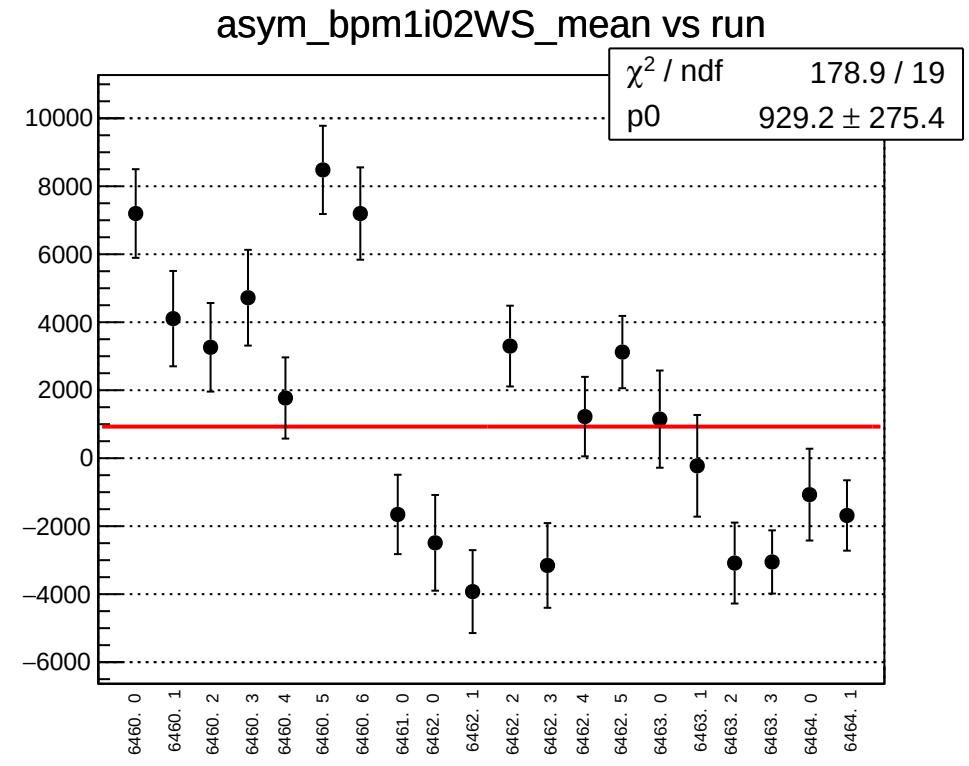

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1370 / 19
p0 174 ± 0.2738
200
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

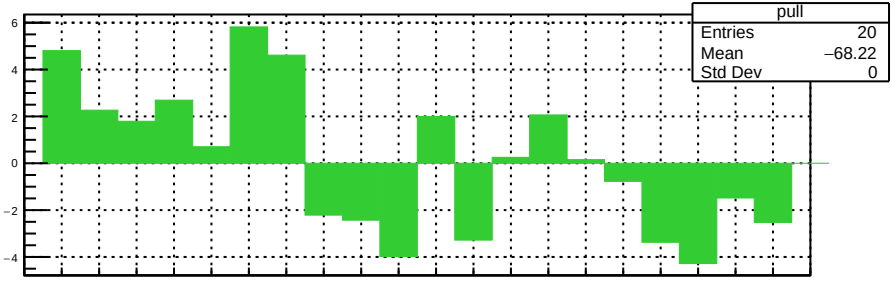

asym_bpm0i07WS_mean vs run
χ² / ndf 117.5 / 19
p0 −982.7 ± 431.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

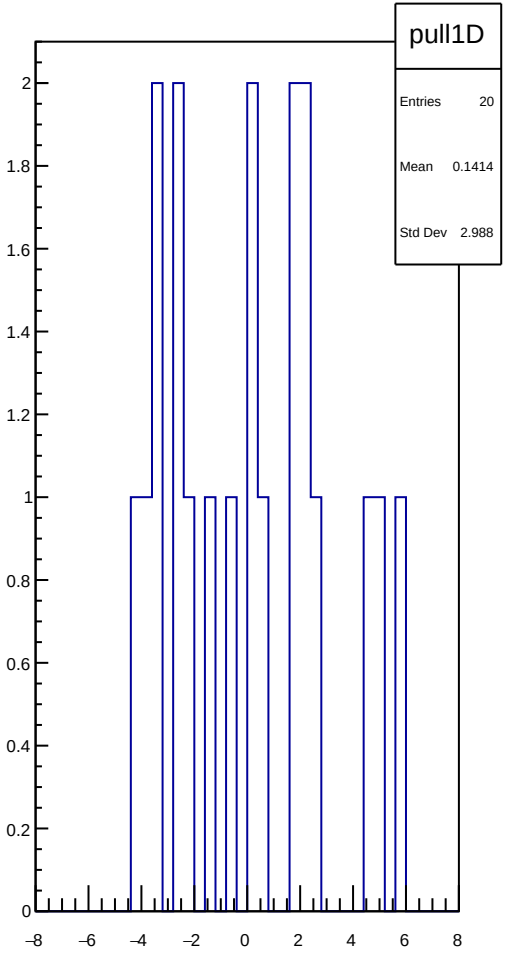

pull
Entries 20
Mean −361.7
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

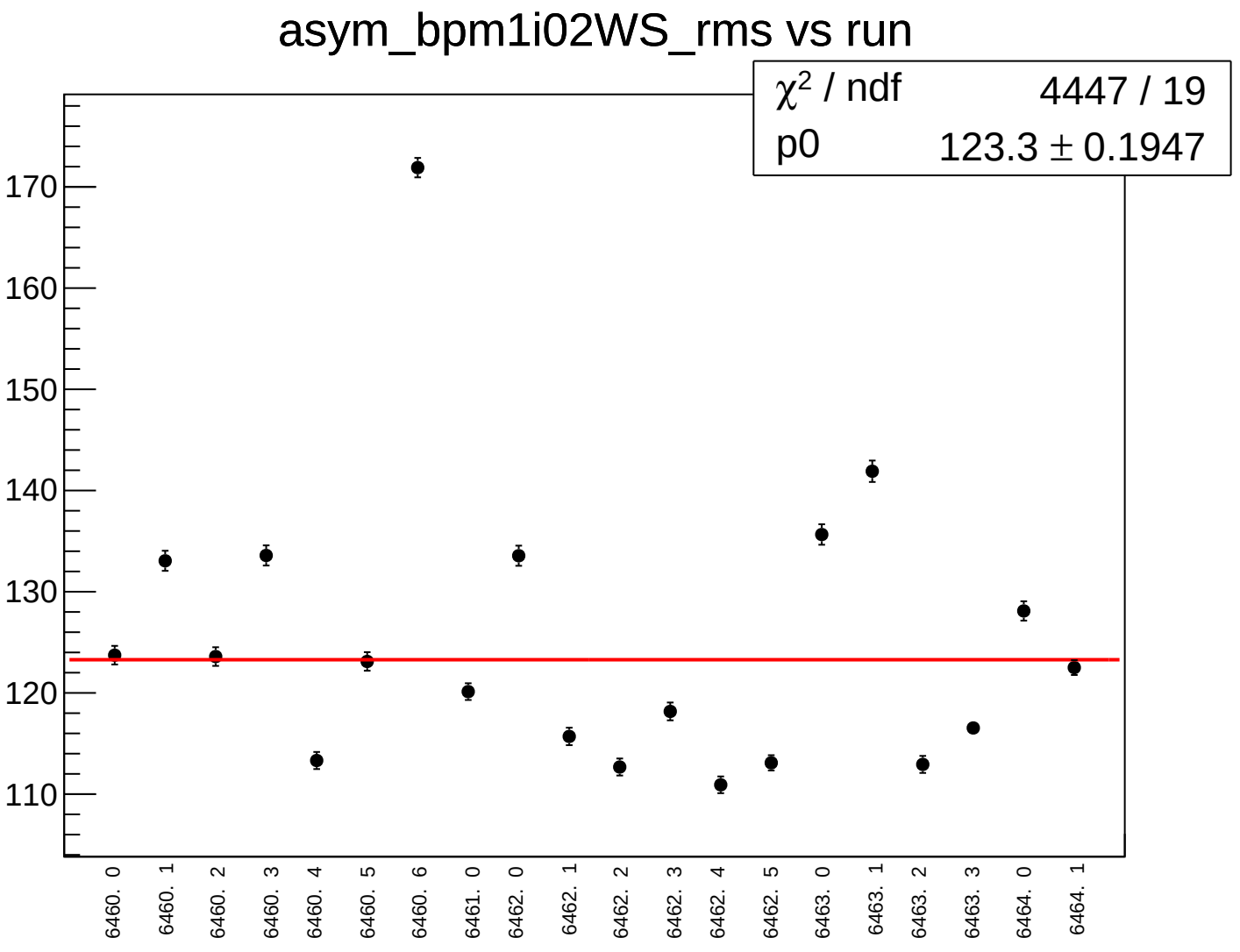

pull1D
Entries 20
Mean 0.02627
Std Dev 2.423
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

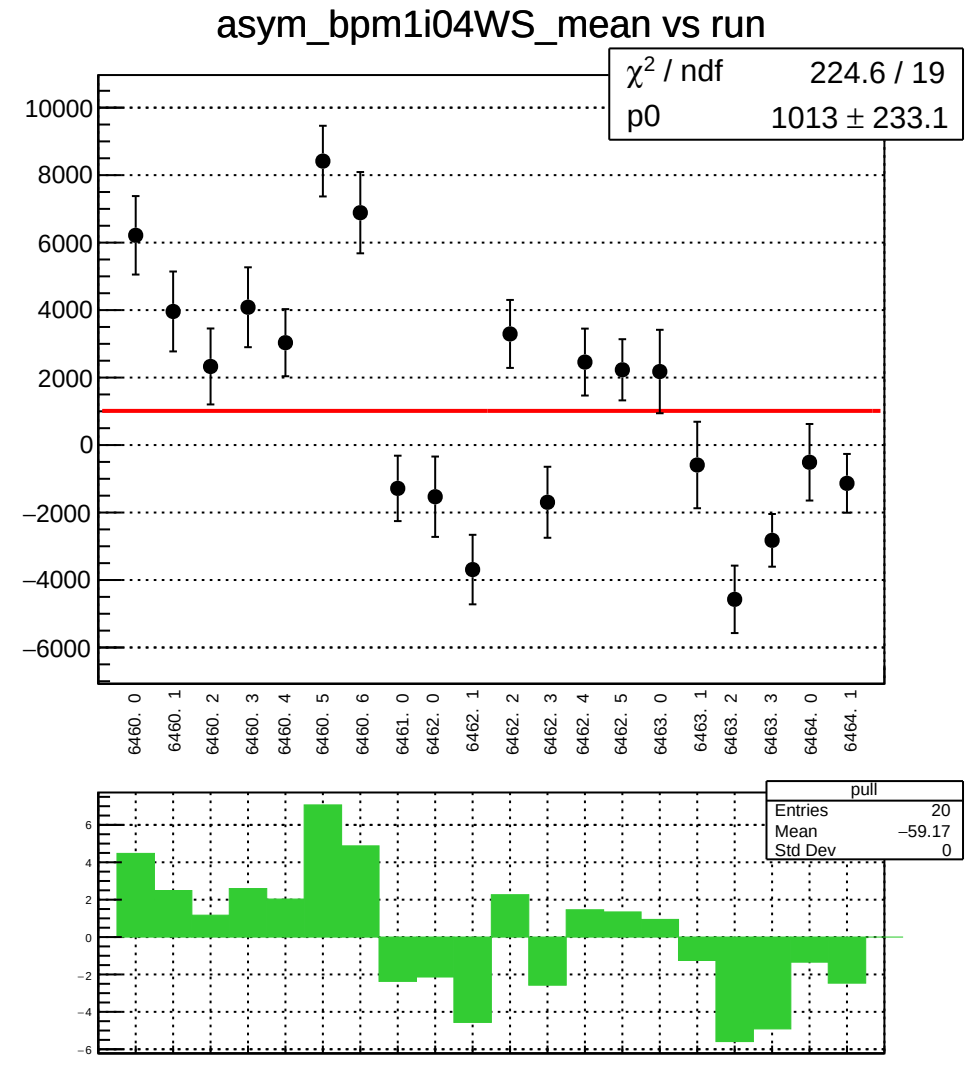

asym_bpm0i07WS_rms vs run
χ² / ndf 844.6 / 19
p0 193.9 ± 0.3049
215
210
205
200
195
190
185
180
175
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

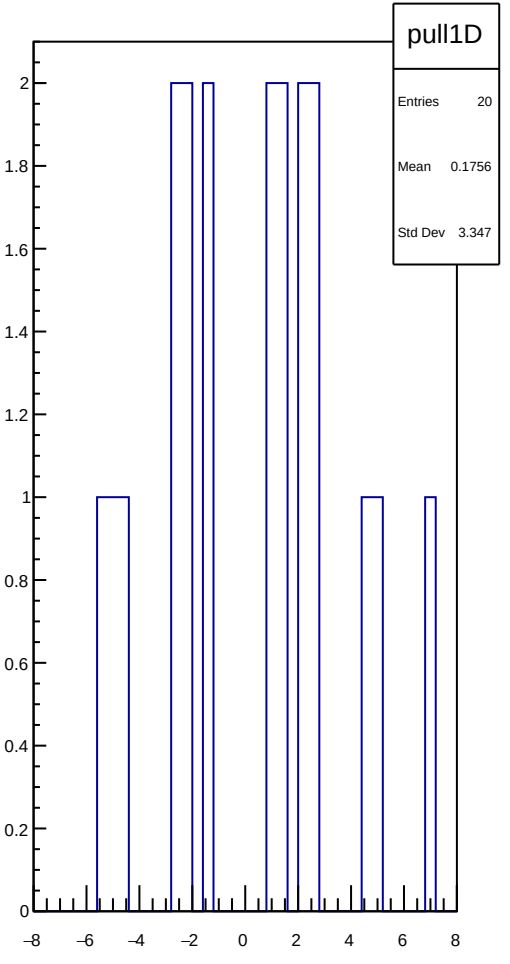

asym_bpm1i02WS_mean vs run
χ² / ndf 178.9 / 19
p0 929.2 ± 275.4
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

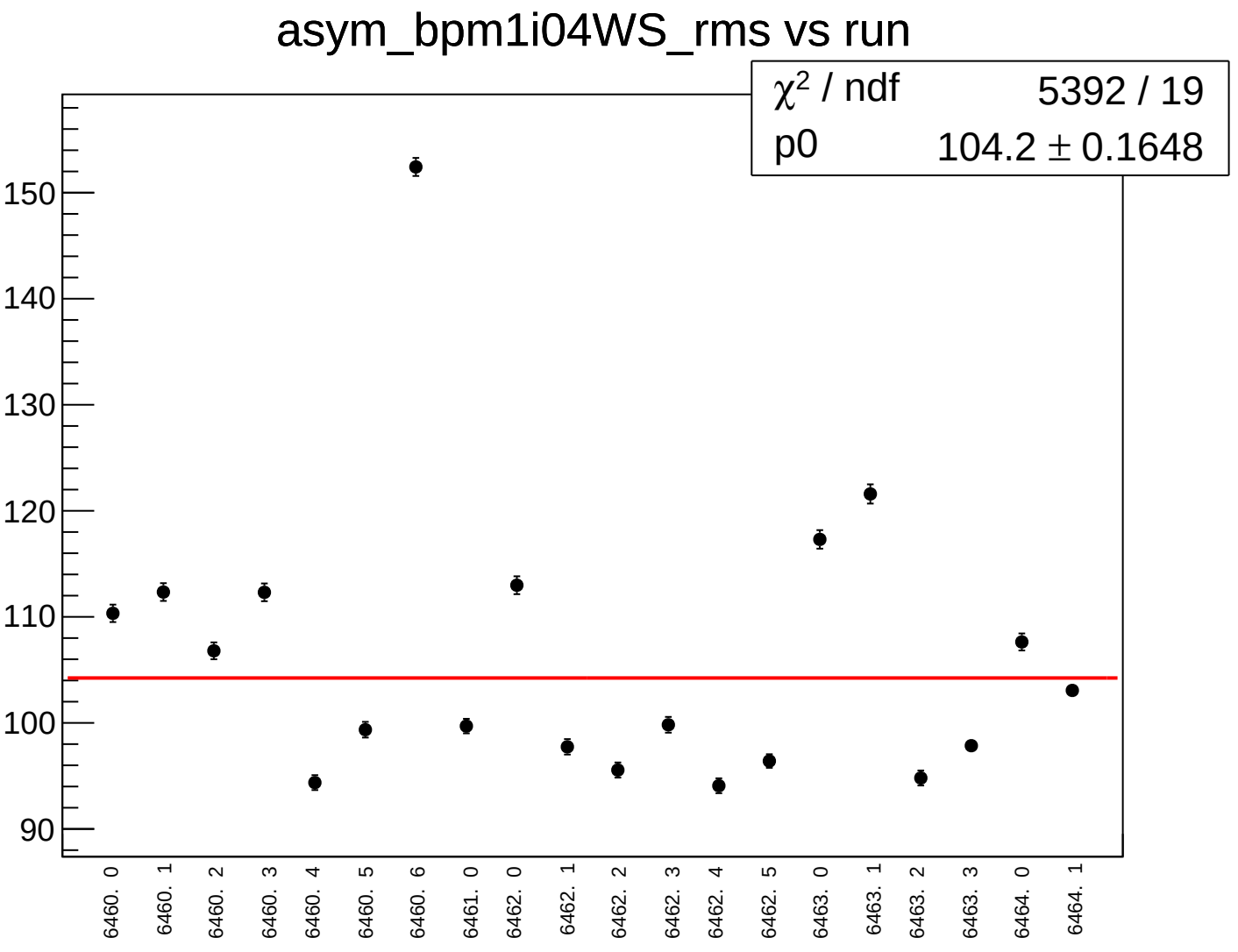

pull
Entries 20
Mean −68.22
Std Dev 0
6
4
2
0
−2
−4

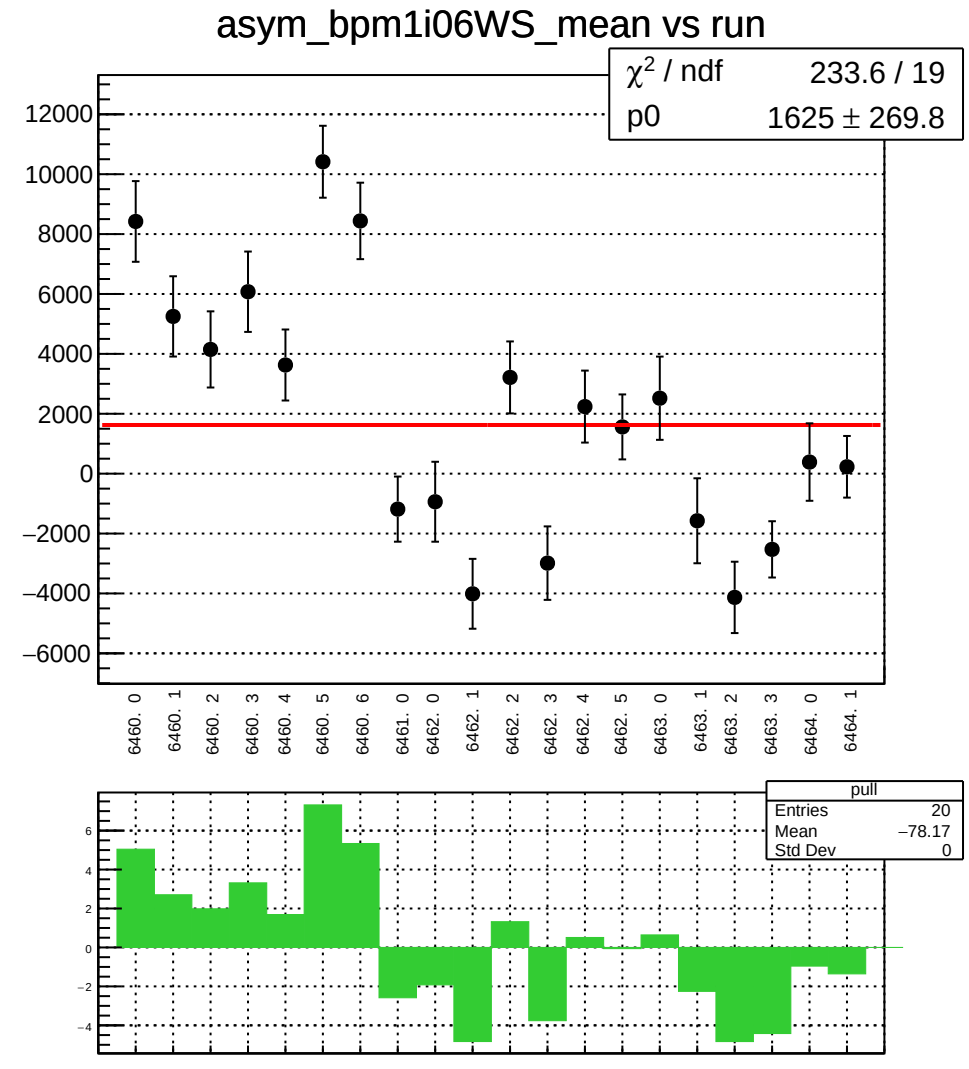

pull1D
Entries 20
Mean 0.1414
Std Dev 2.988
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

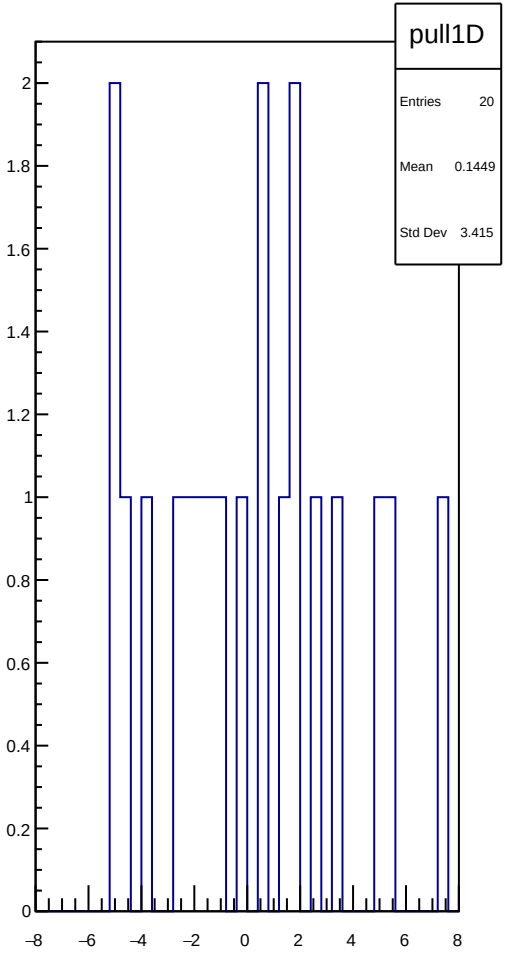

asym_bpm1i02WS_rms vs run
χ² / ndf 4447 / 19
p0 123.3 ± 0.1947
170
160
150
140
130
120
110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

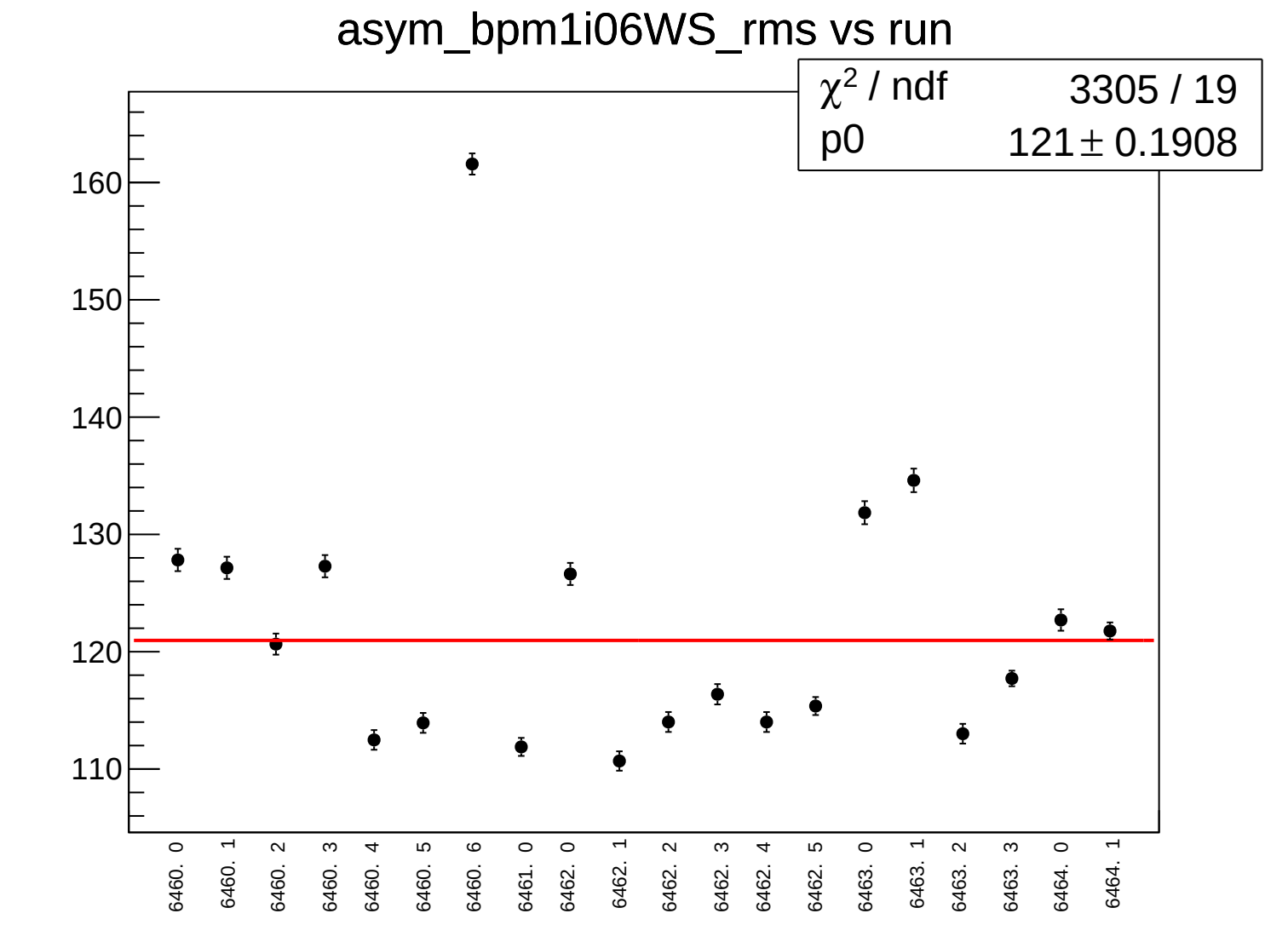

asym_bpm1i04WS_mean vs run
χ² / ndf 224.6 / 19
p0 1013 ± 233.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −59.17
Std Dev 0
6
4
2
0
−2
−4
−6

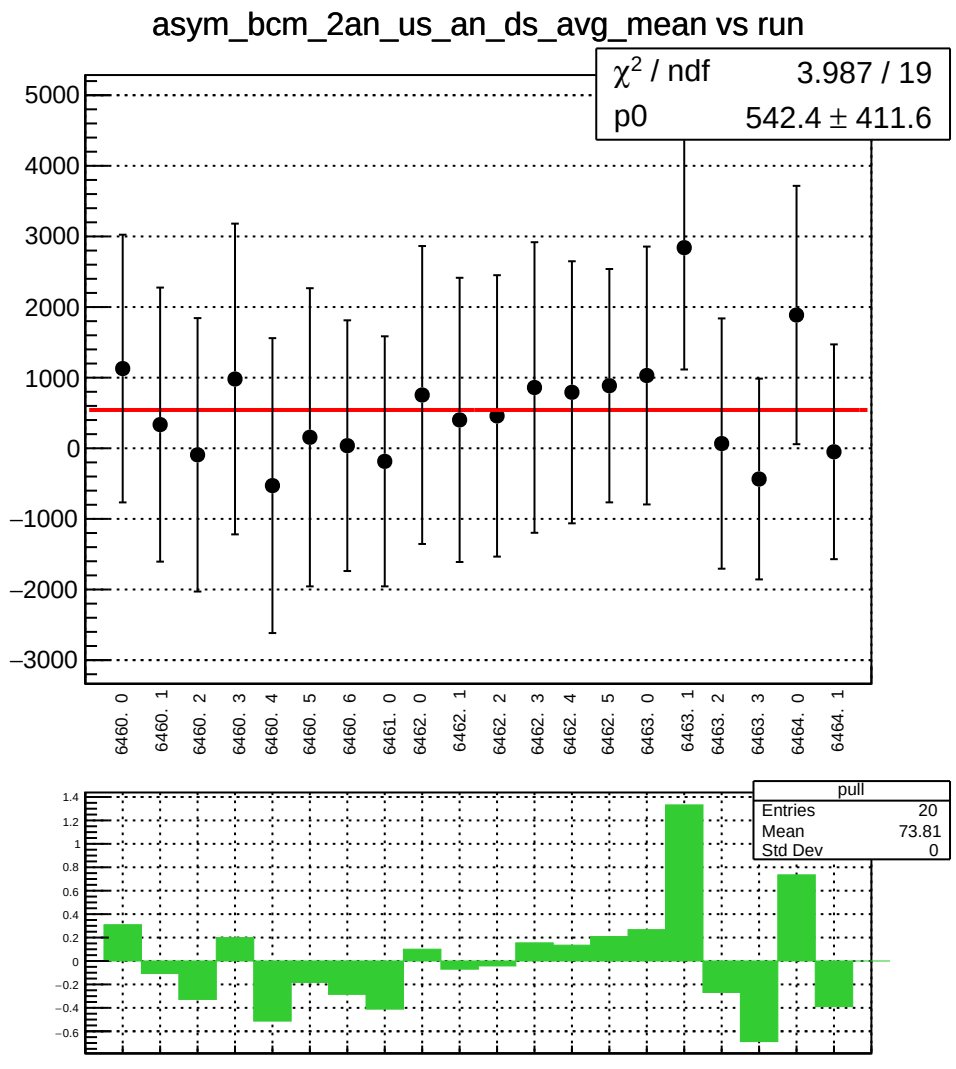

pull1D
Entries 20
Mean 0.1756
Std Dev 3.347
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

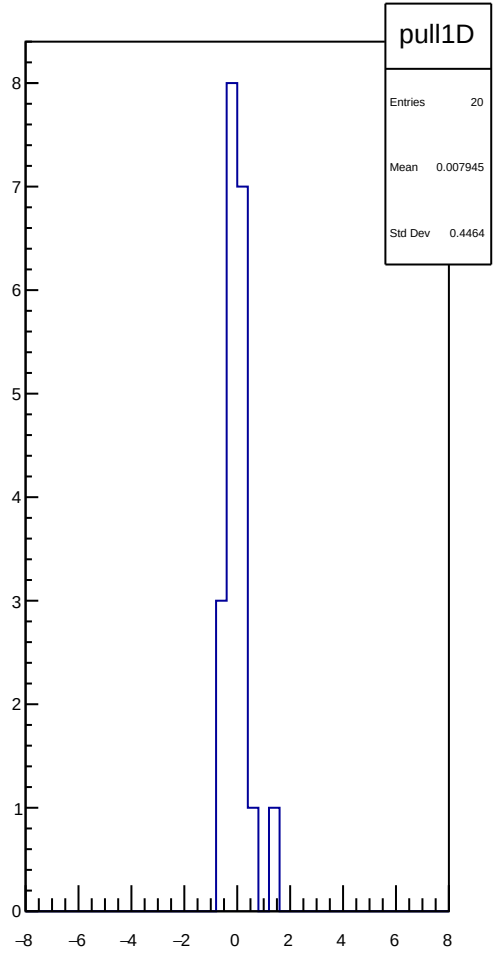

asym_bpm1i04WS_rms vs run
χ² / ndf 5392 / 19
p0 104.2 ± 0.1648
150
140
130
120
110
100
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

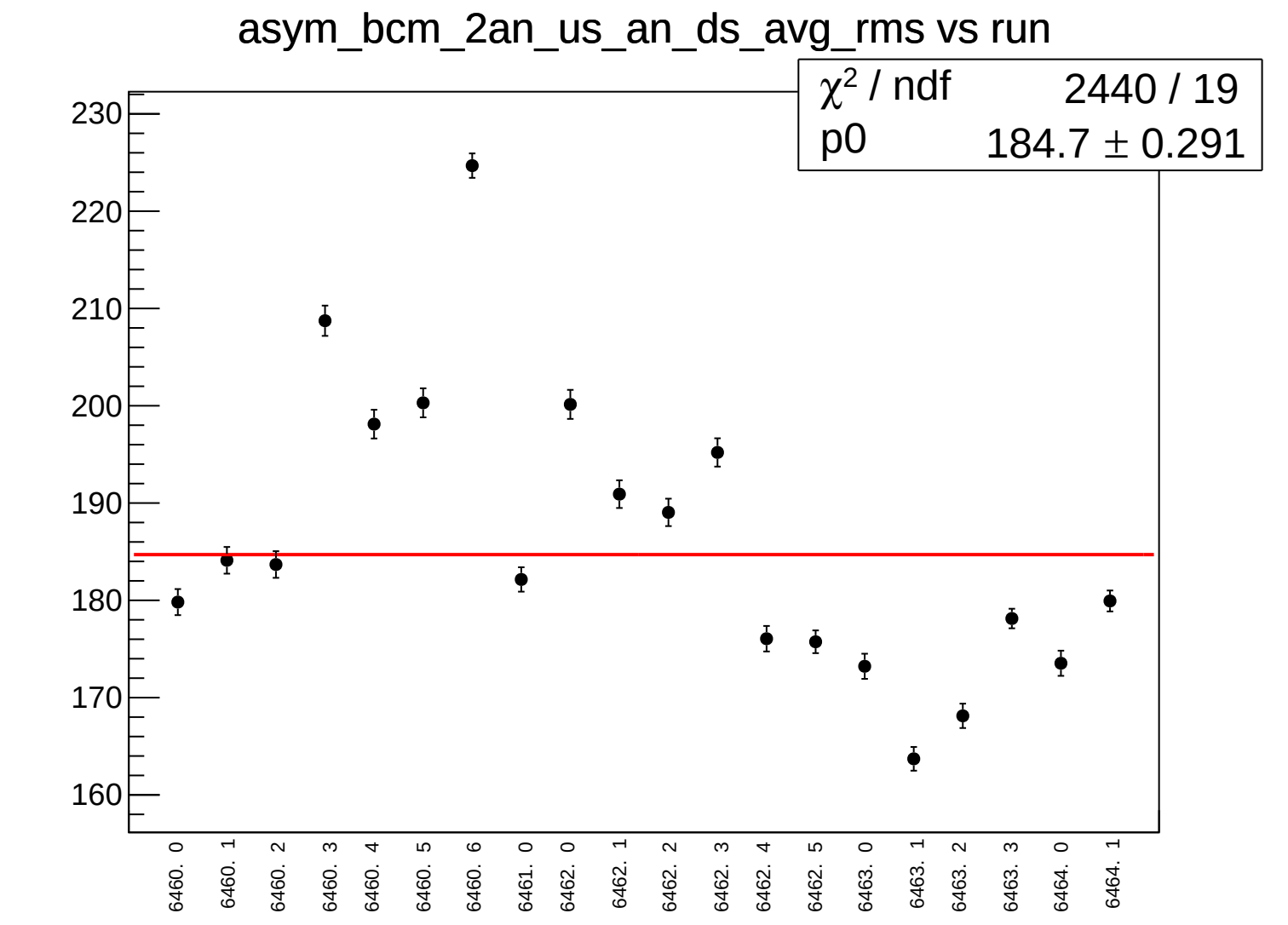

asym_bpm1i06WS_mean vs run
χ² / ndf 233.6 / 19
p0 1625 ± 269.8
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −78.17
Std Dev 0
6
4
2
0
−2
−4

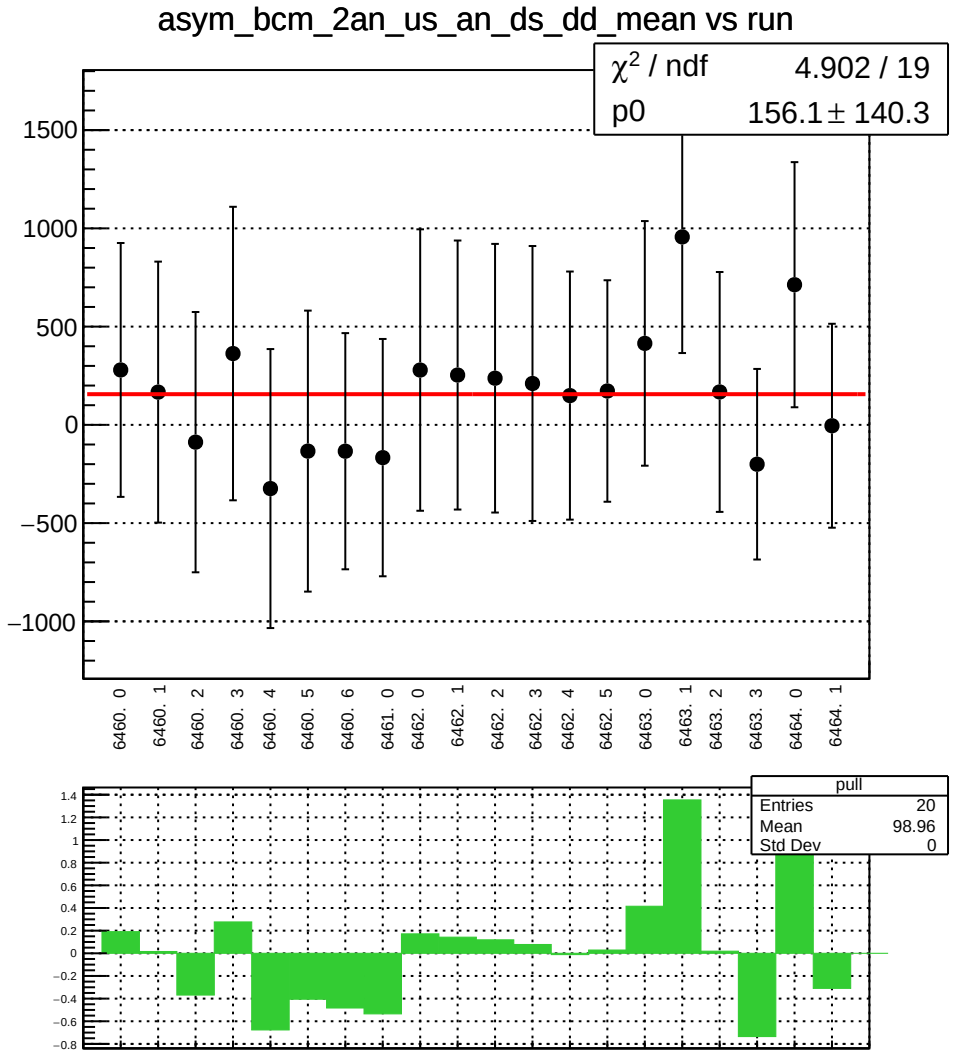

pull1D
Entries 20
Mean 0.1449
Std Dev 3.415
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

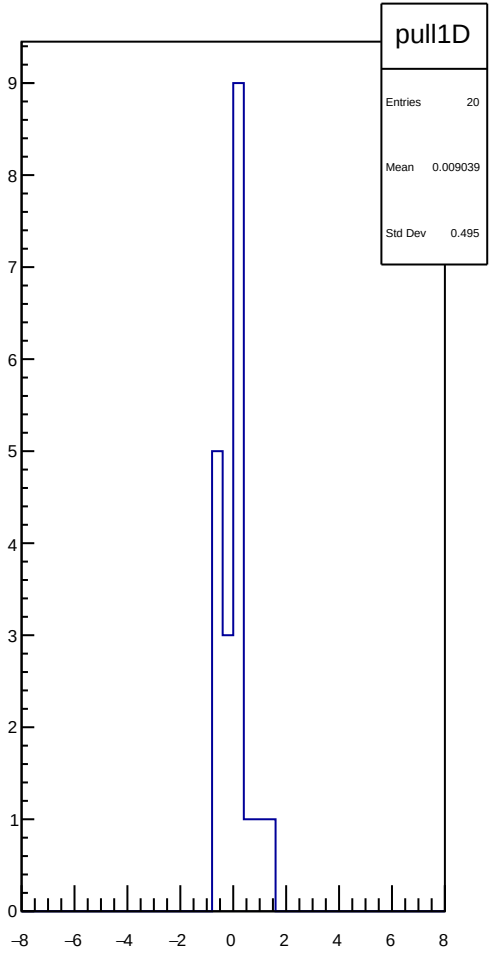

asym_bpm1i06WS_rms vs run
χ² / ndf 3305 / 19
p0 121 ± 0.1908
160
150
140
130
120
110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

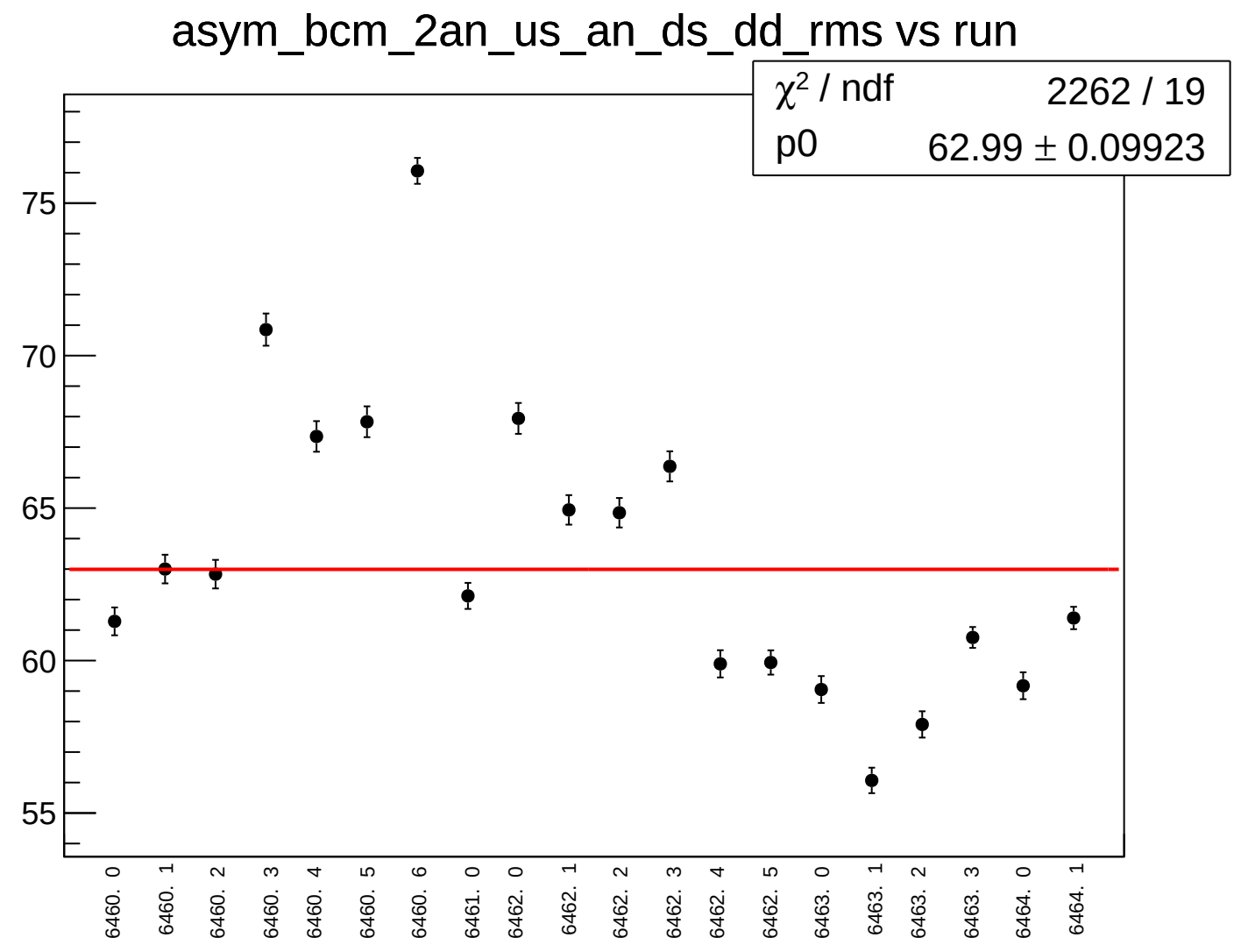

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 3.987 / 19
p0 542.4 ± 411.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.81
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

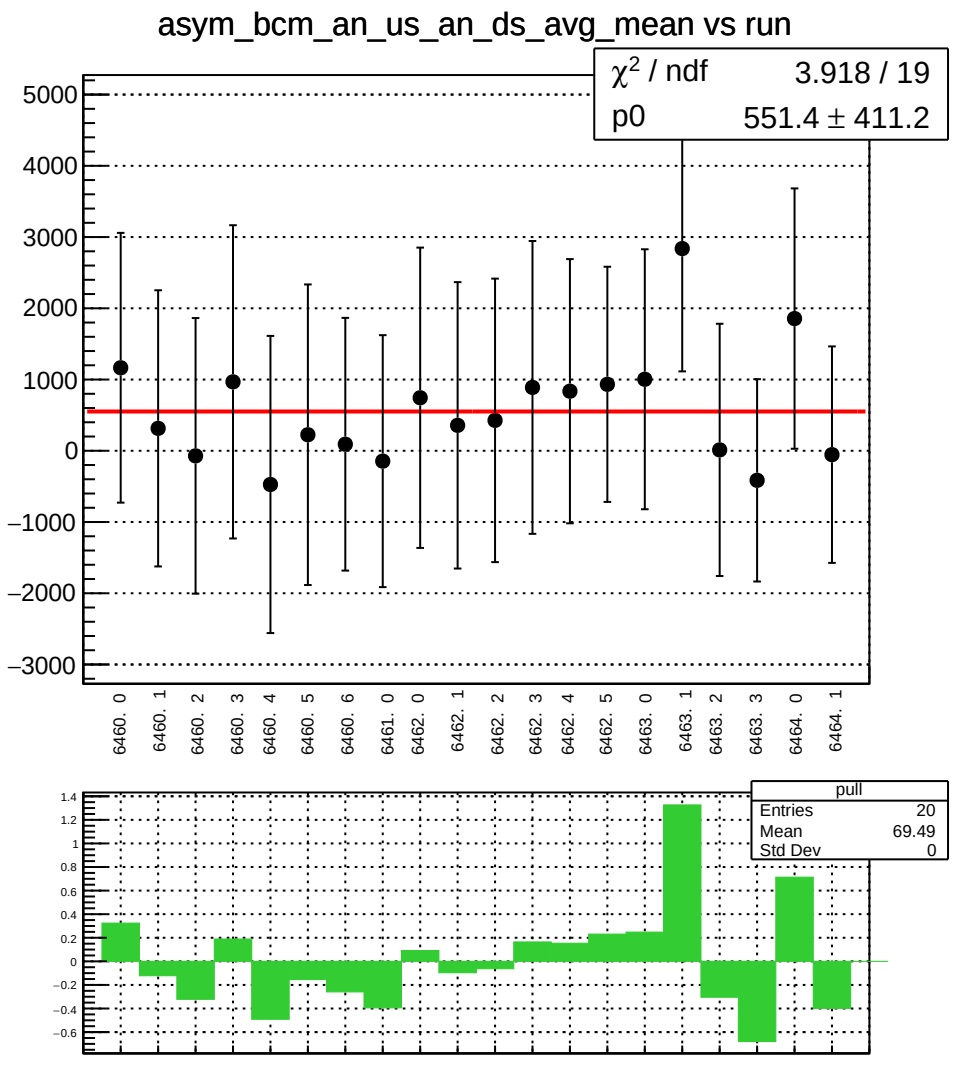

pull1D
Entries 20
Mean 0.007945
Std Dev 0.4464
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

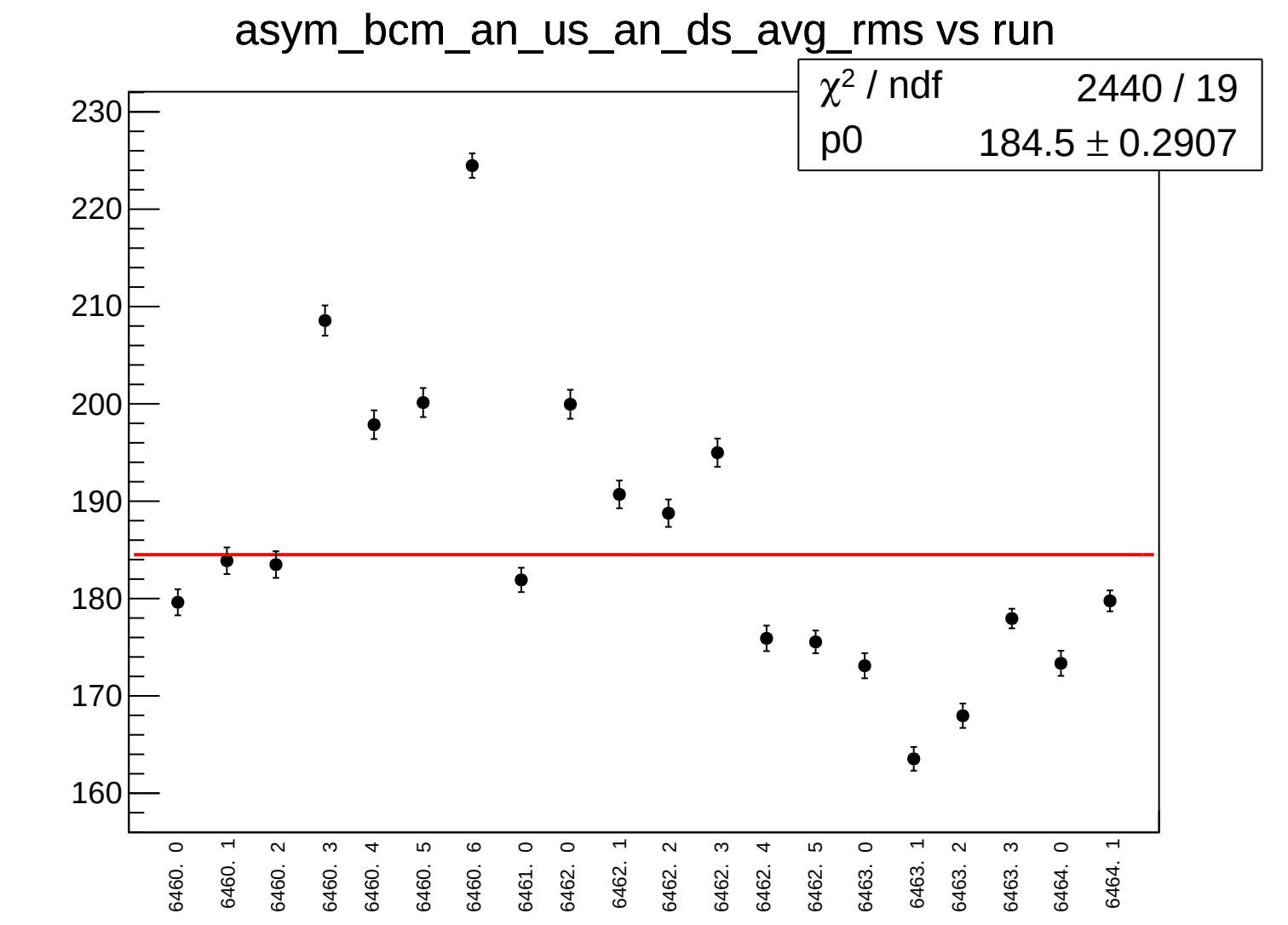

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2440 / 19
p0 184.7 ± 0.291
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

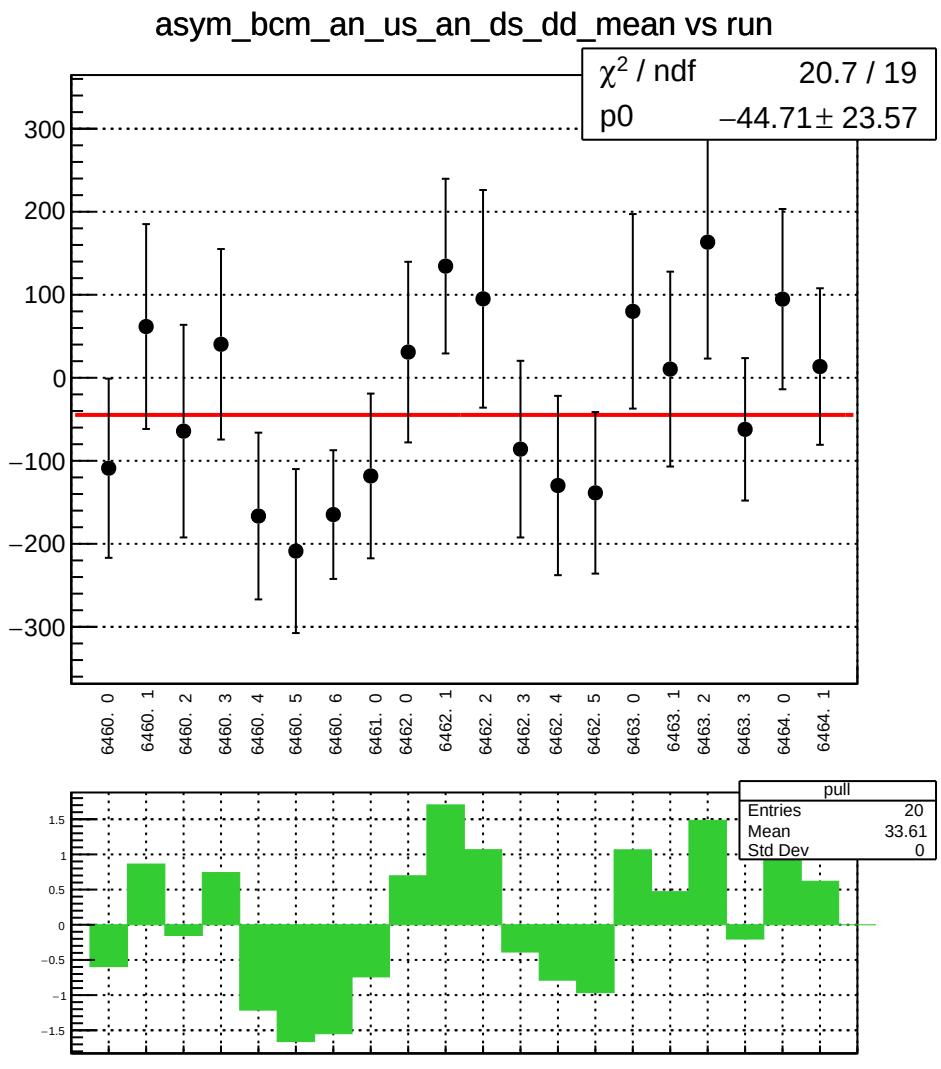

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 4.902 / 19
p0 156.1 ± 140.3
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 98.96
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

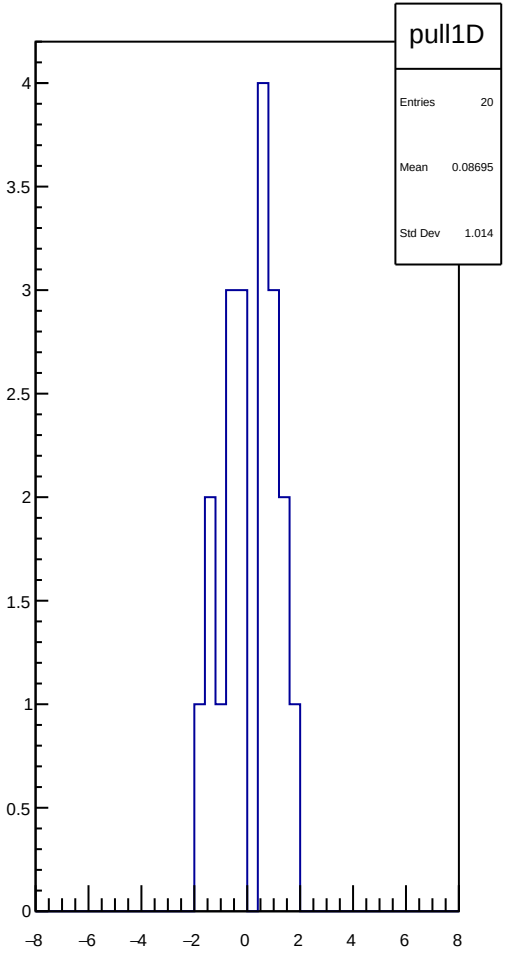

pull1D
Entries 20
Mean 0.009039
Std Dev 0.495
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

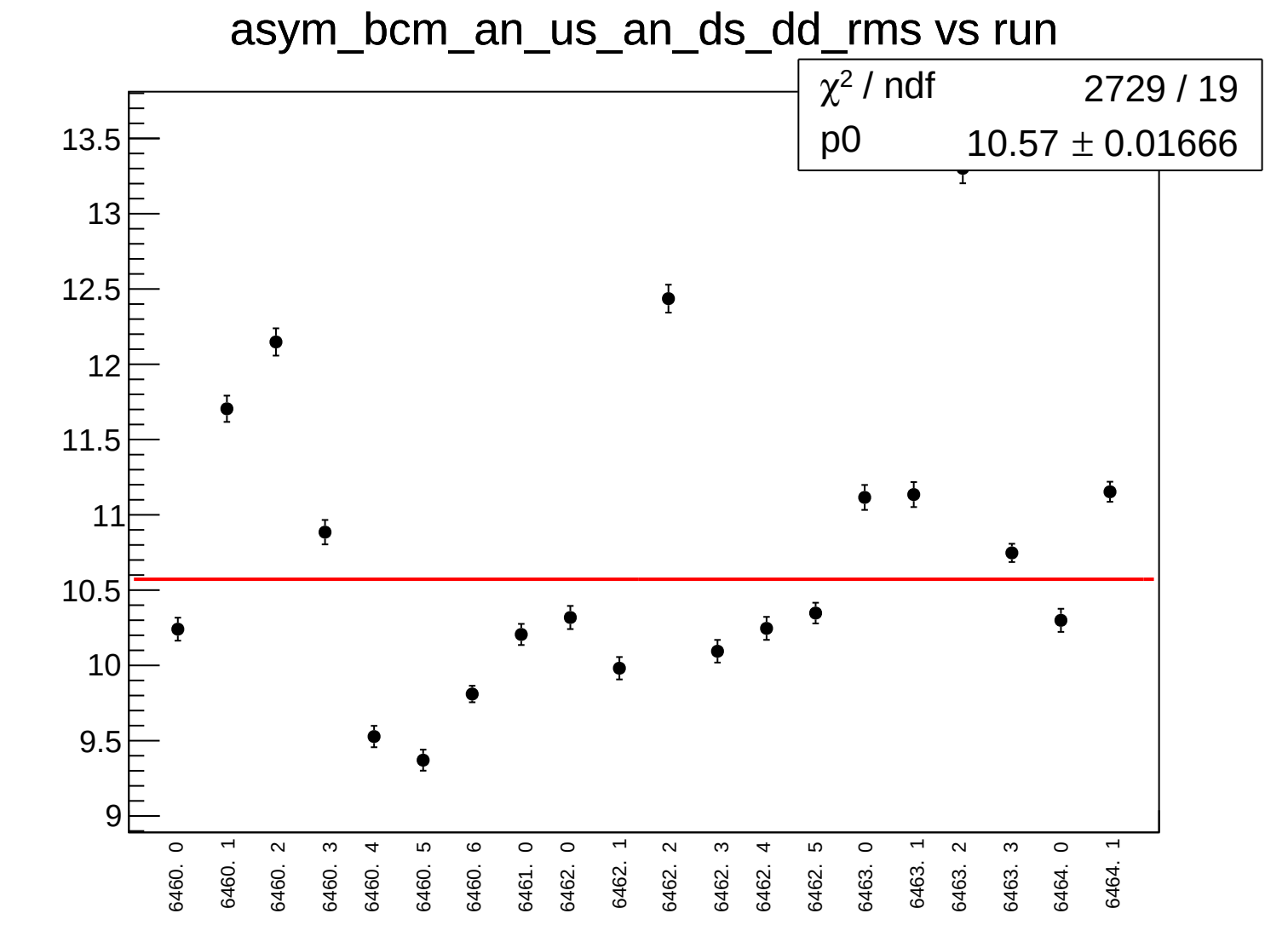

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 2262 / 19
p0 62.99 ± 0.09923
75
70
65
60
55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

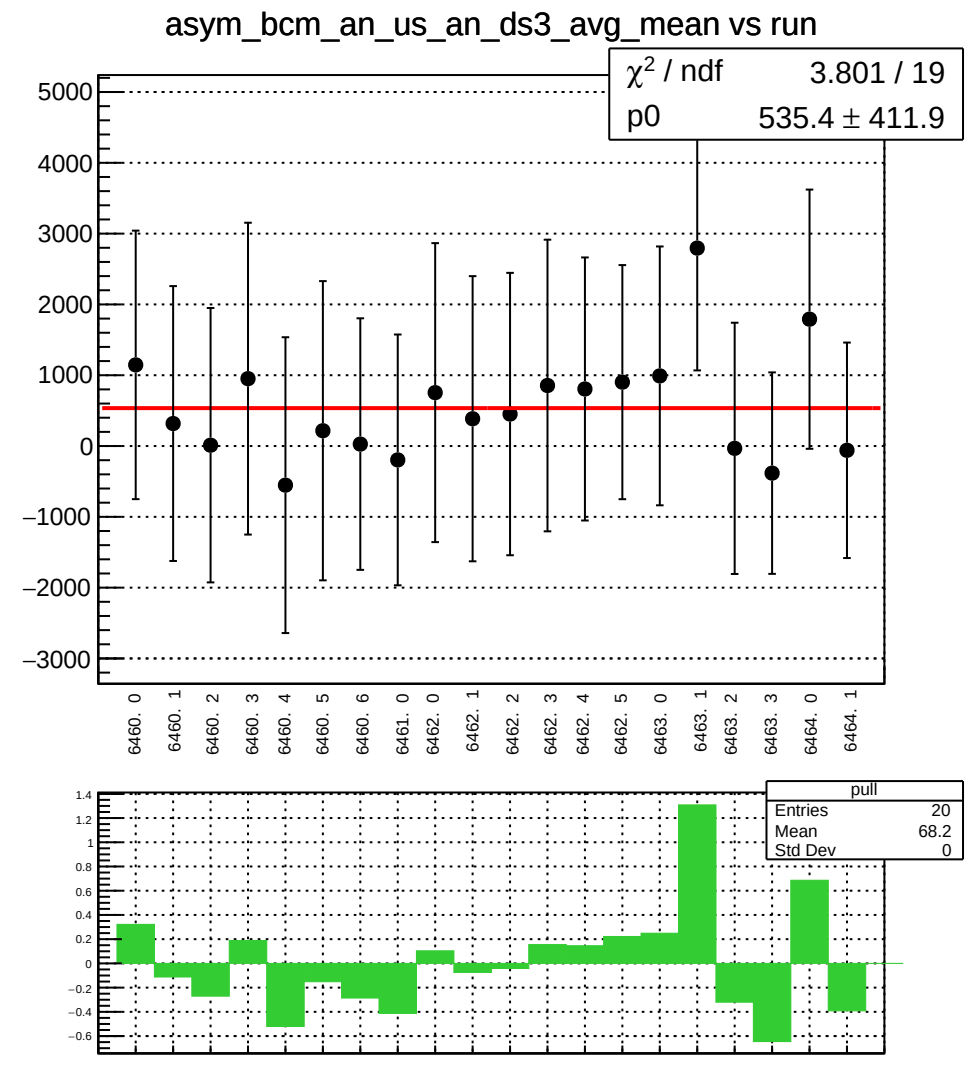

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 3.918 / 19
p0 551.4 ± 411.2
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.49
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 20
Mean 0.007869
Std Dev 0.4425
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

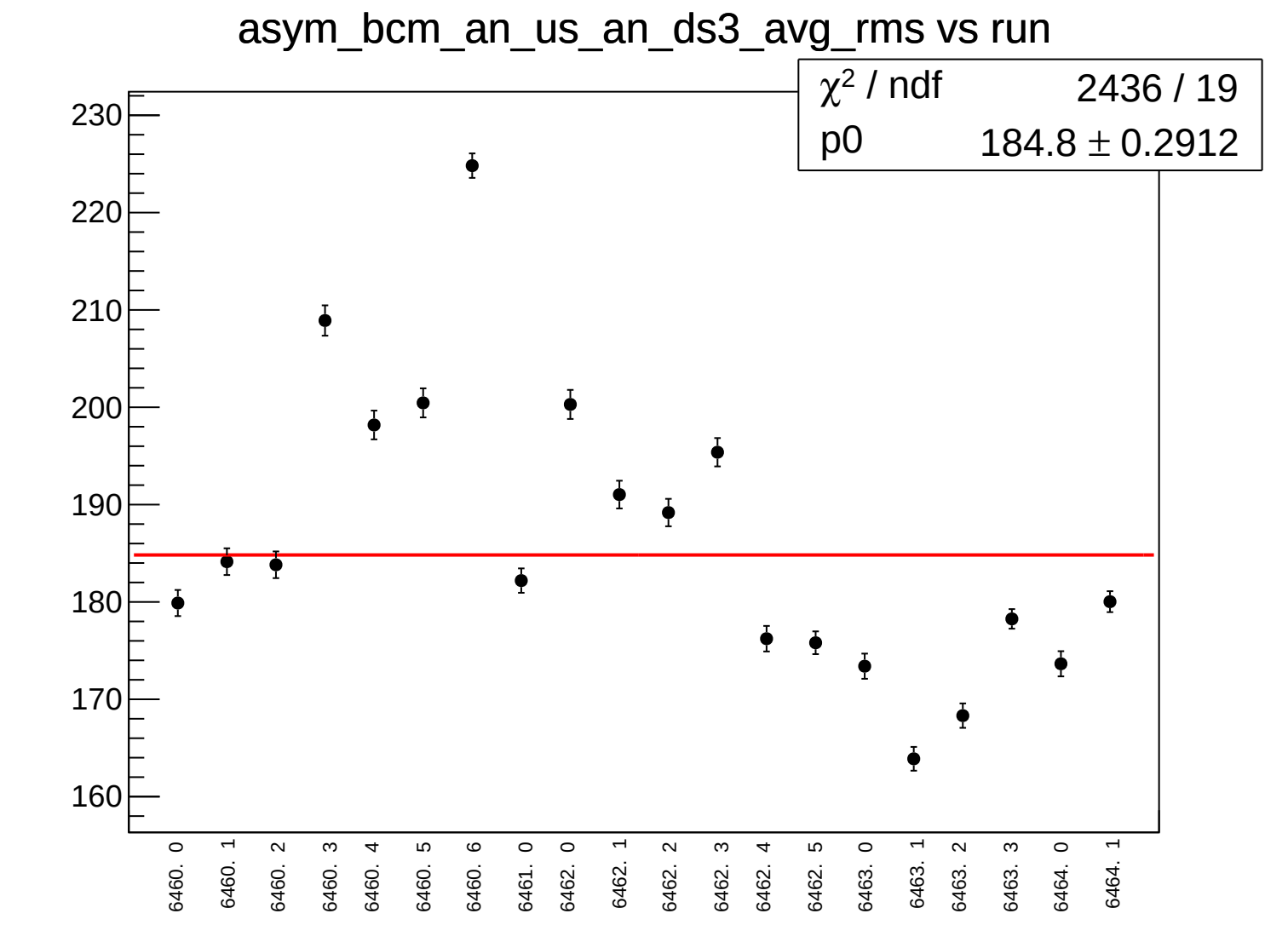

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2440 / 19
p0 184.5 ± 0.2907
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

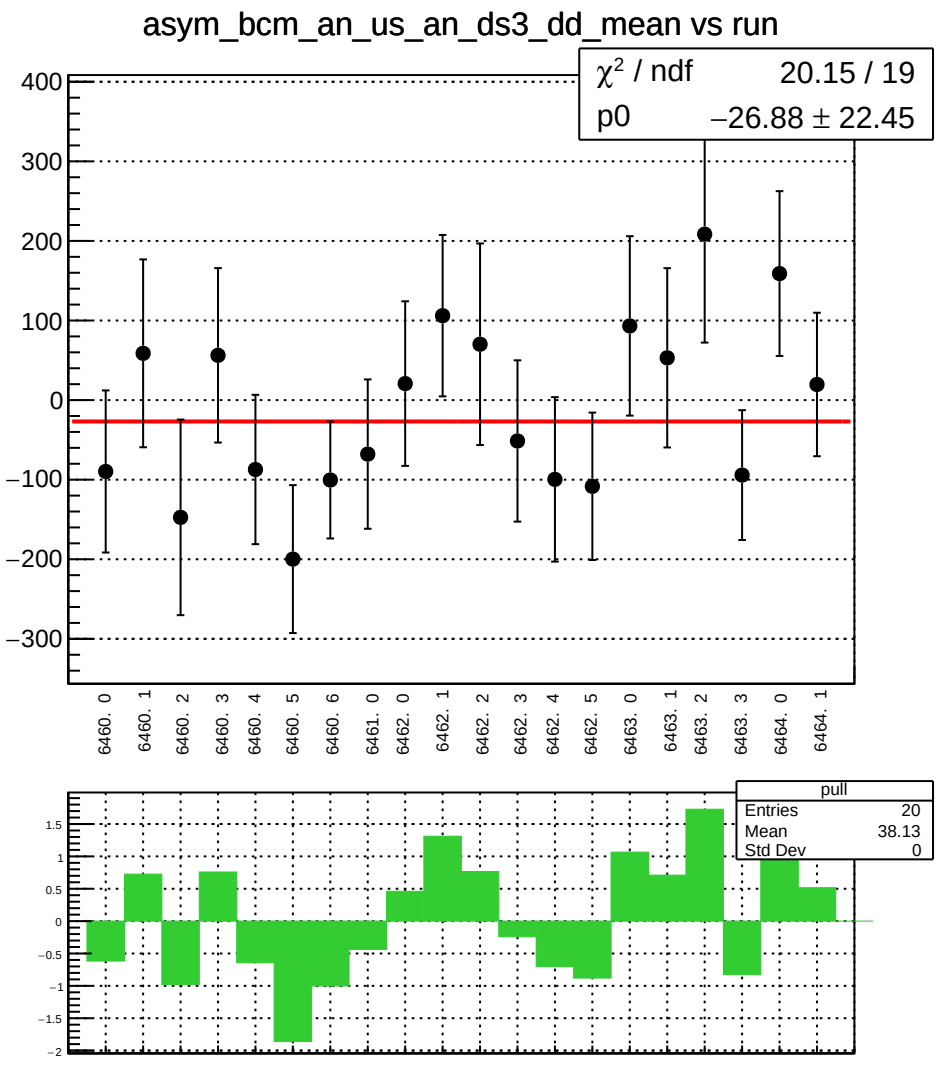

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 20.7 / 19
p0 −44.71± 23.57
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

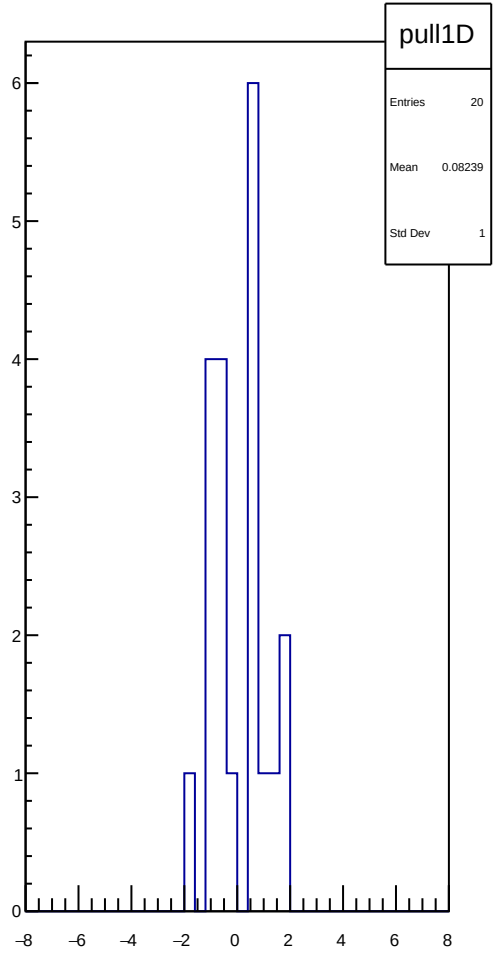

pull1D
Entries 20
Mean 0.08695
Std Dev 1.014
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

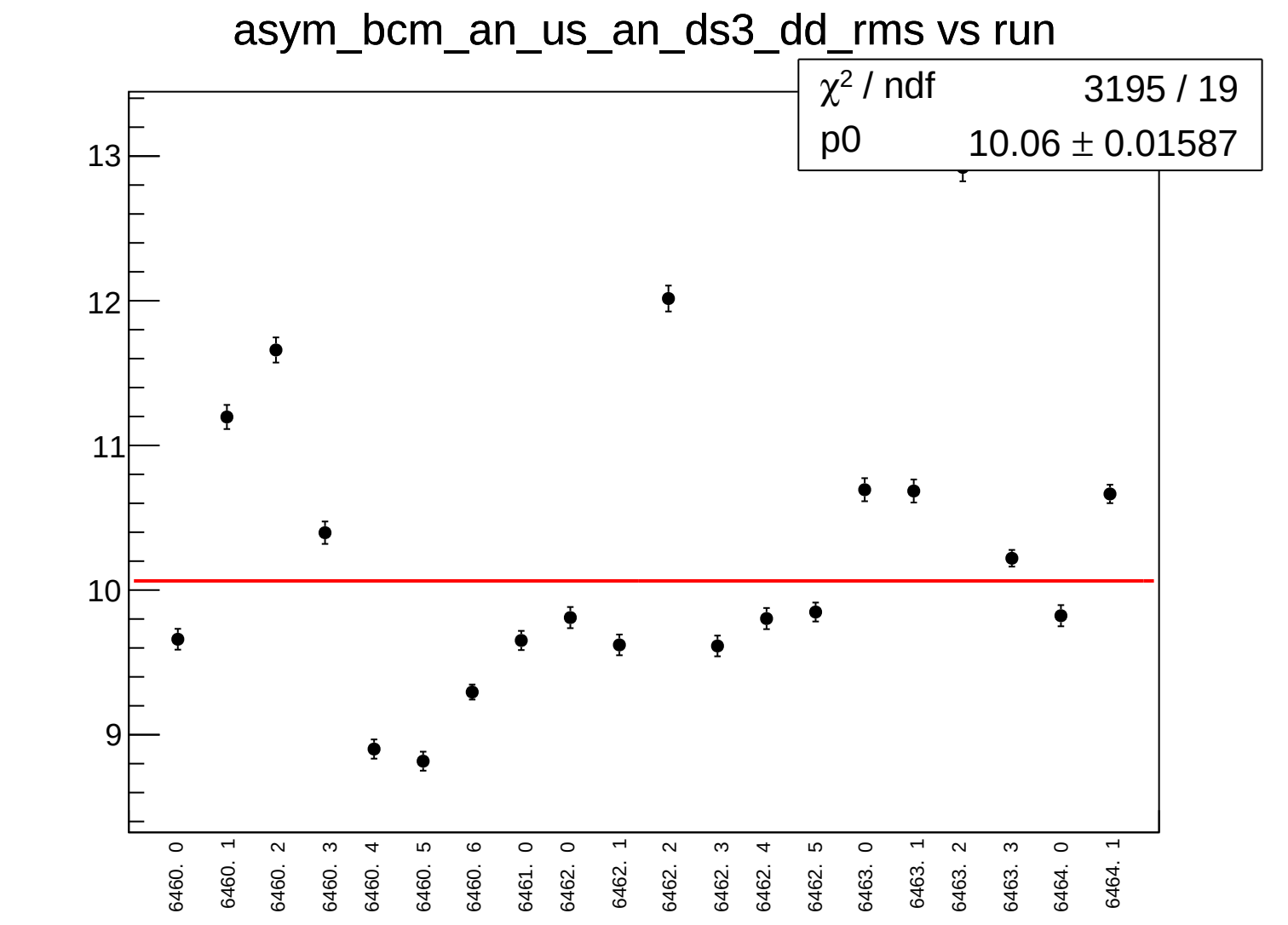

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 2729 / 19
p0 10.57 ± 0.01666
13.5
13
12.5
12
11.5
11
10.5
10
9.5
9
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

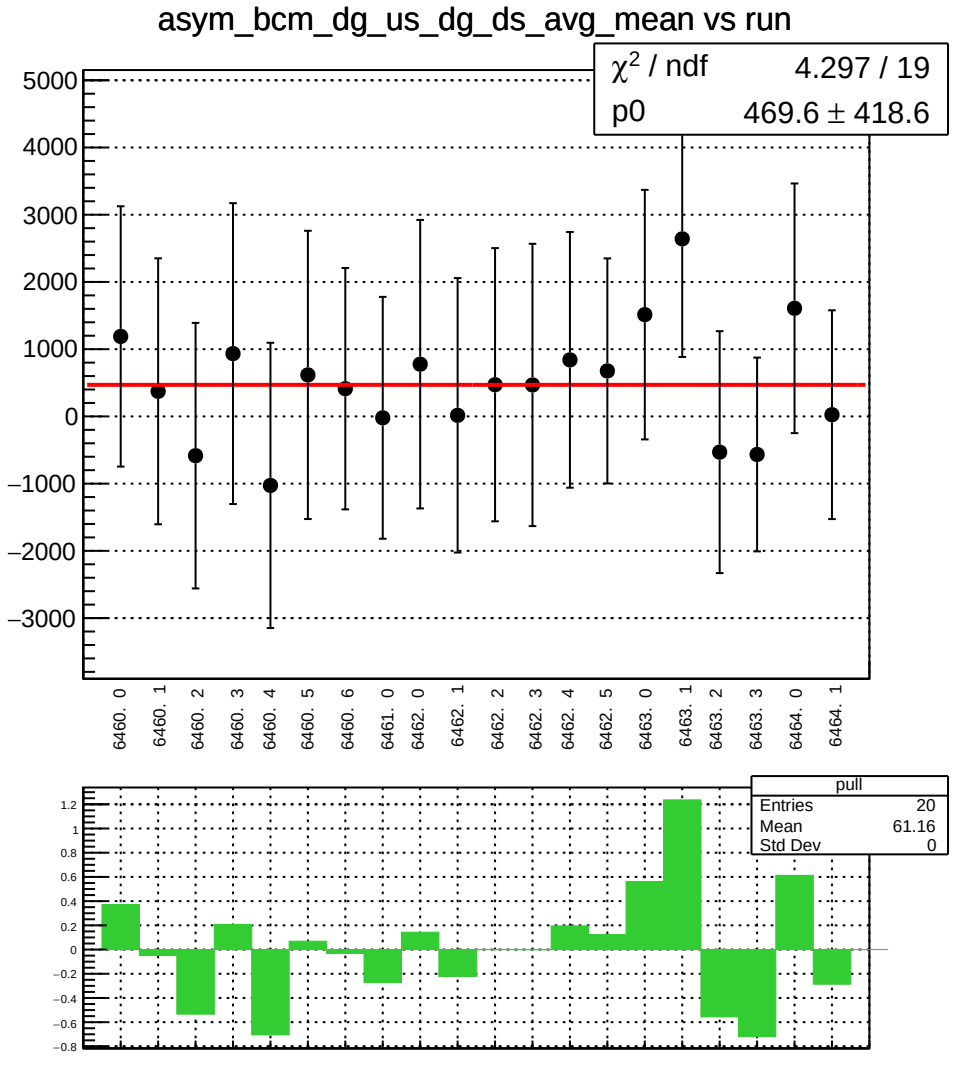

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 3.801 / 19
p0 535.4 ± 411.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 68.2
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 20
Mean 0.007744
Std Dev 0.4359
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

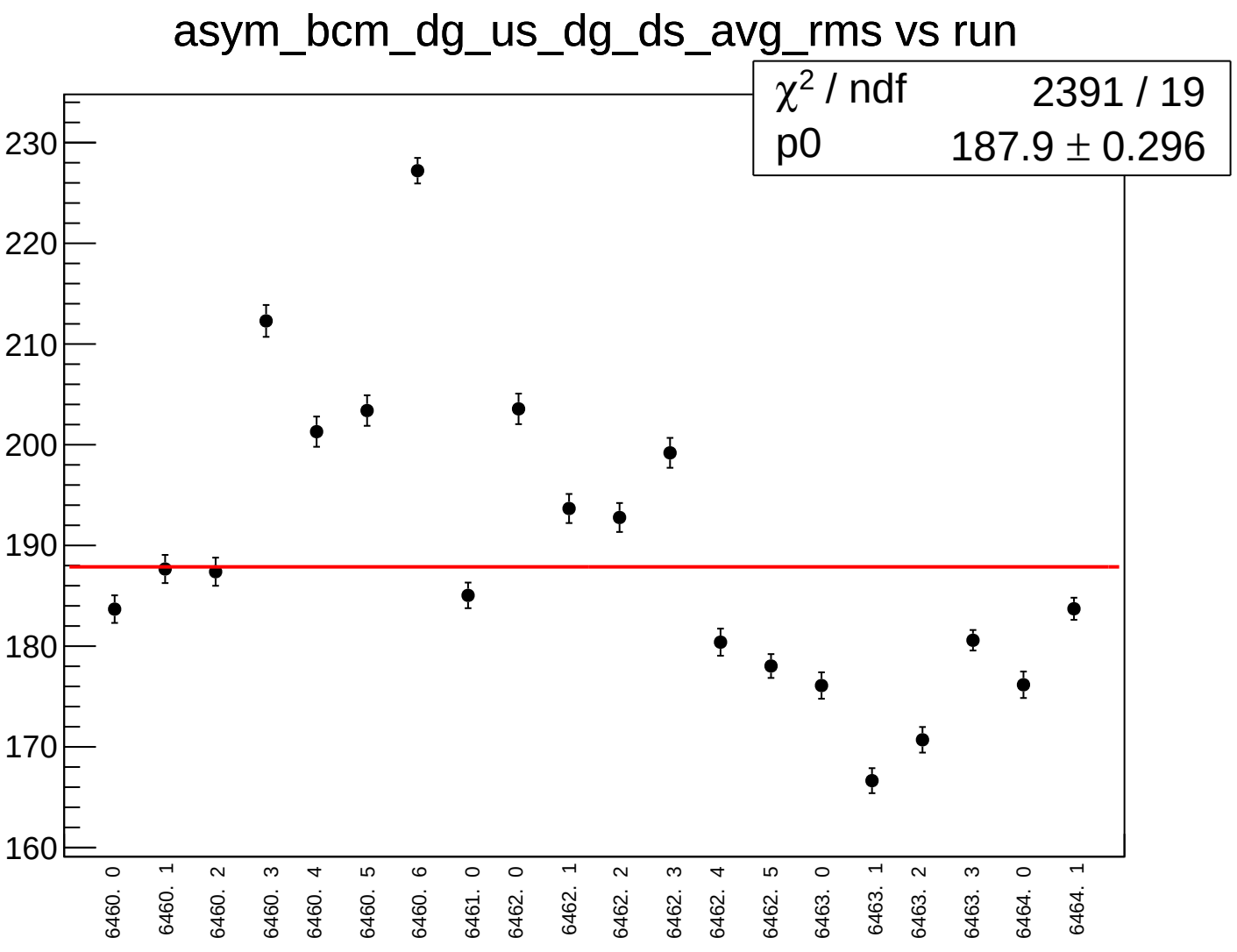

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 2436 / 19
p0 184.8 ± 0.2912
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

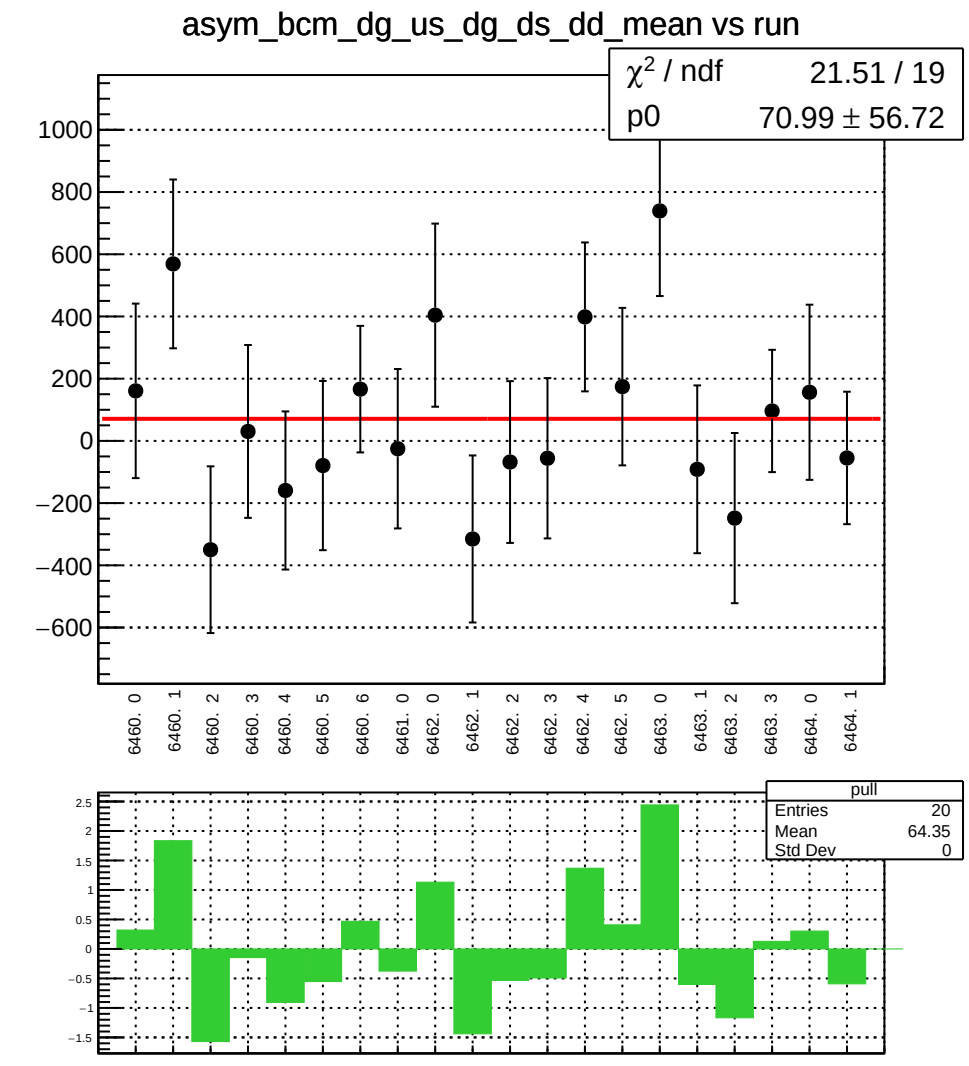

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 20.15 / 19
p0 −26.88 ± 22.45
400
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

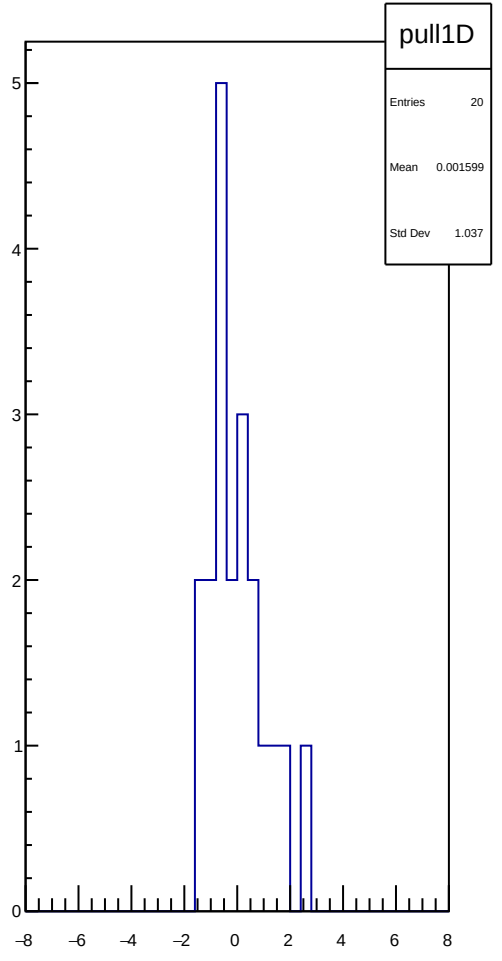

pull1D
Entries 20
Mean 0.08239
Std Dev 1
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

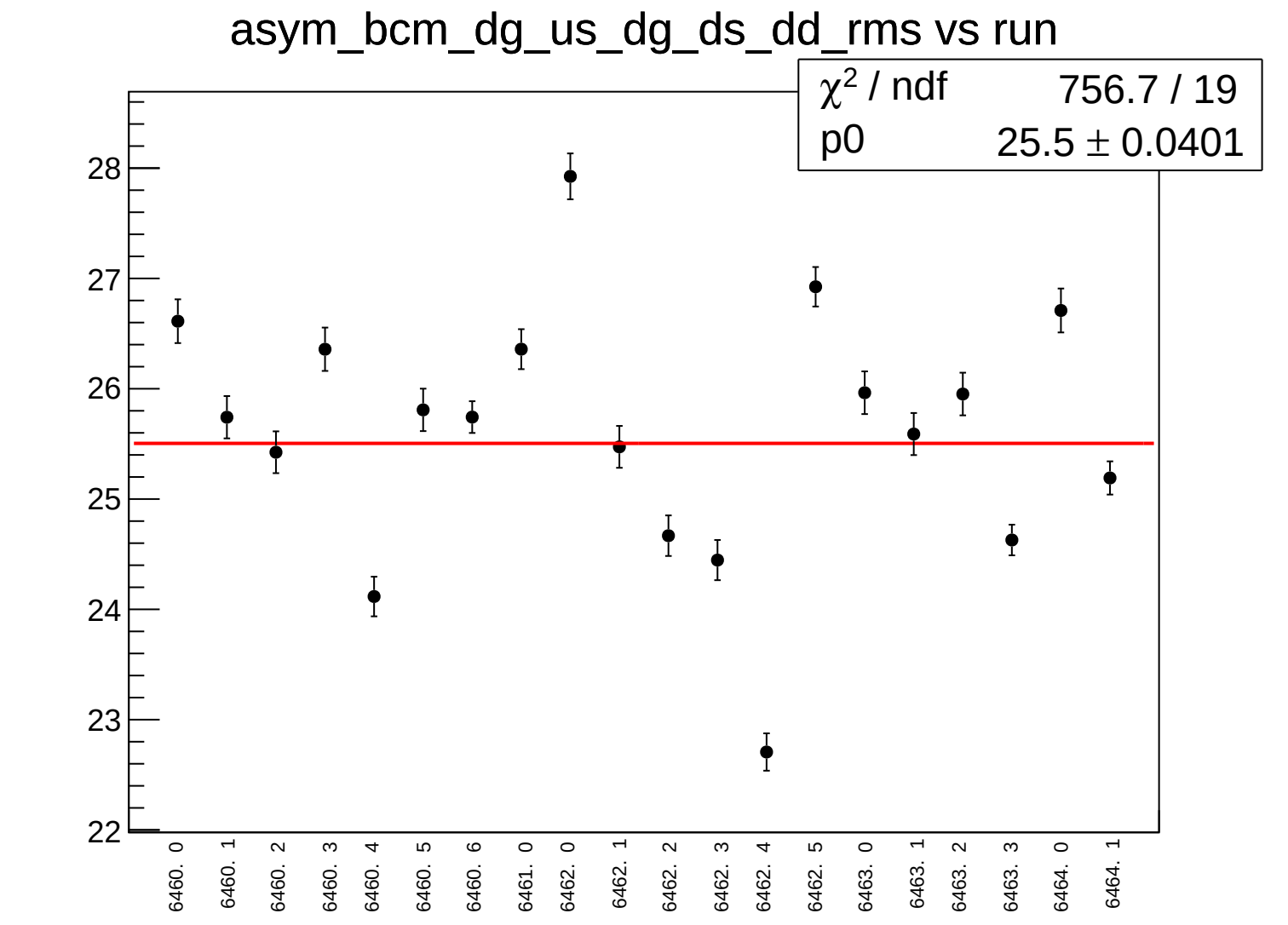

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 3195 / 19
p0 10.06 ± 0.01587
13
12
11
10
9
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

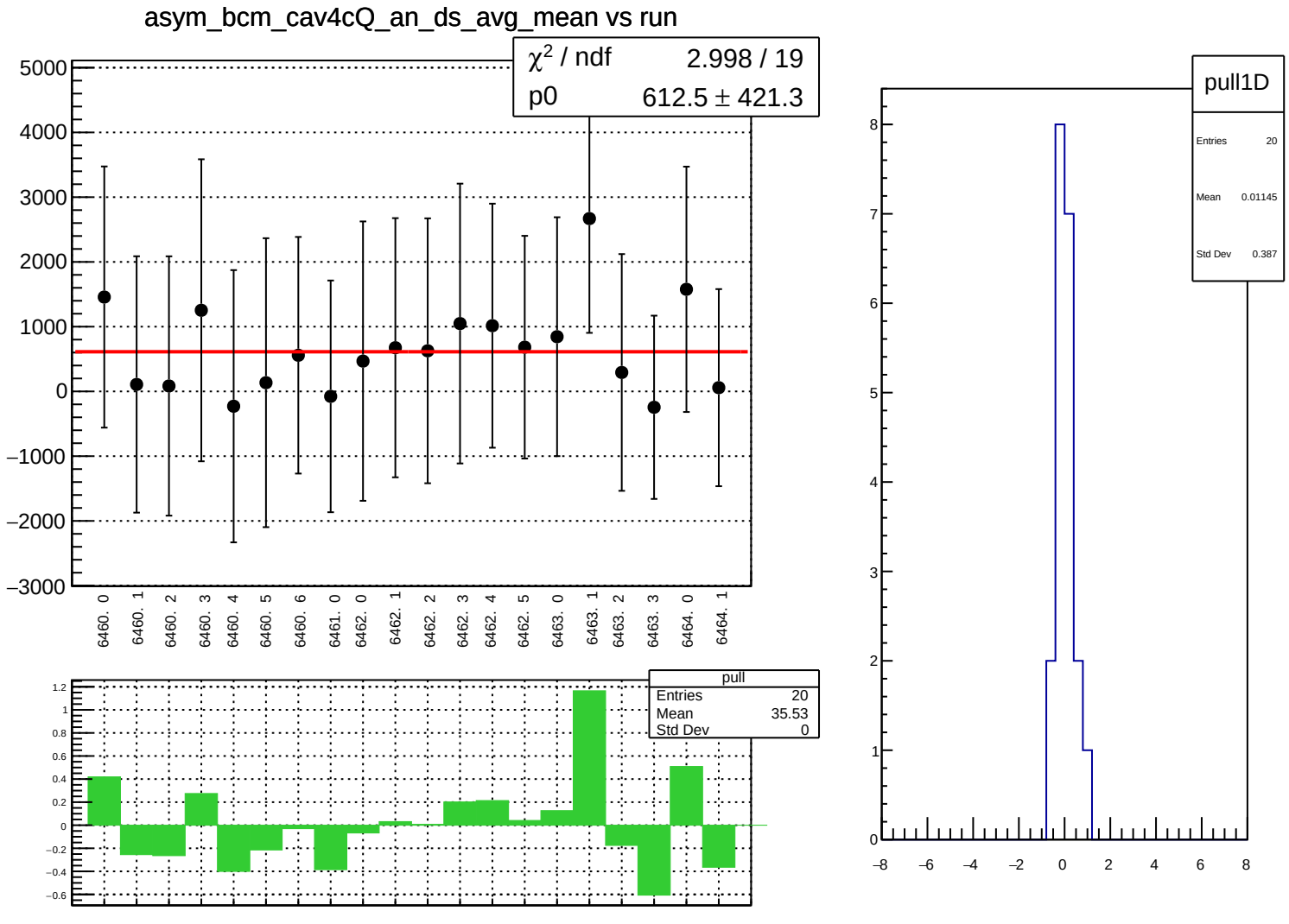

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 4.297 / 19
p0 469.6 ± 418.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 61.16
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.007356
Std Dev 0.4635
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

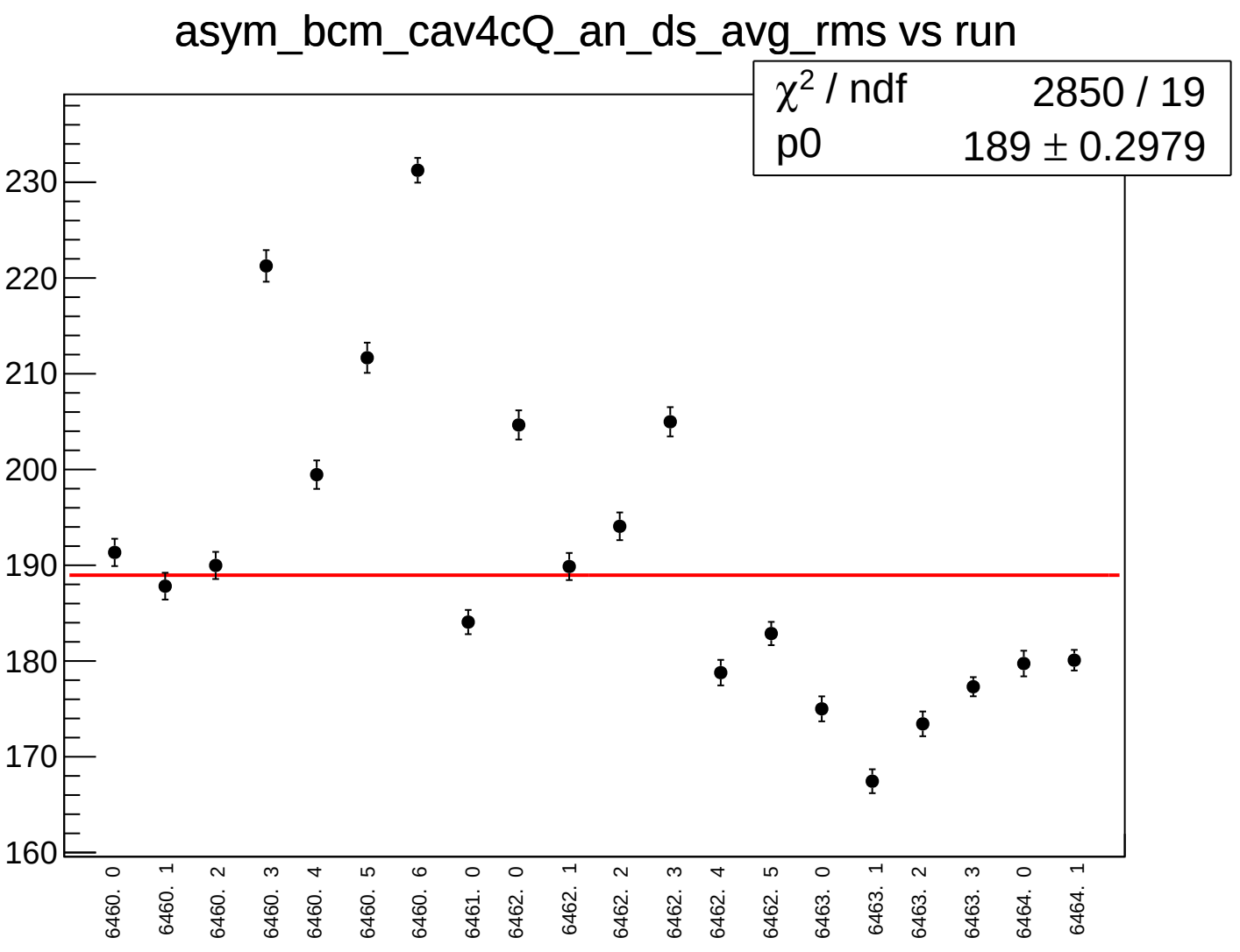

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2391 / 19
p0 187.9 ± 0.296
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

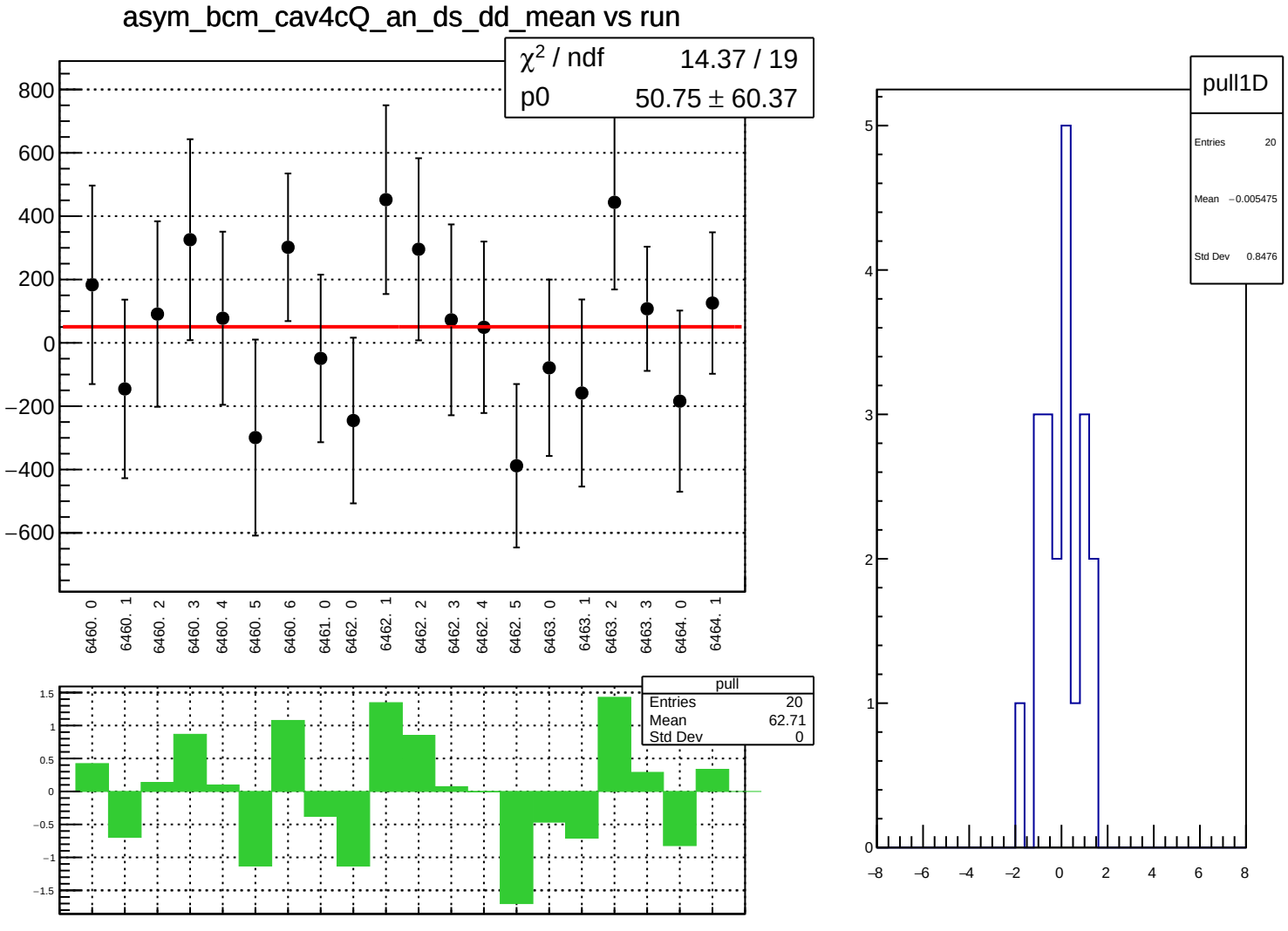

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 21.51 / 19
p0 70.99 ± 56.72
1000
800
600
400
200
0
−200
−400
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 64.35
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

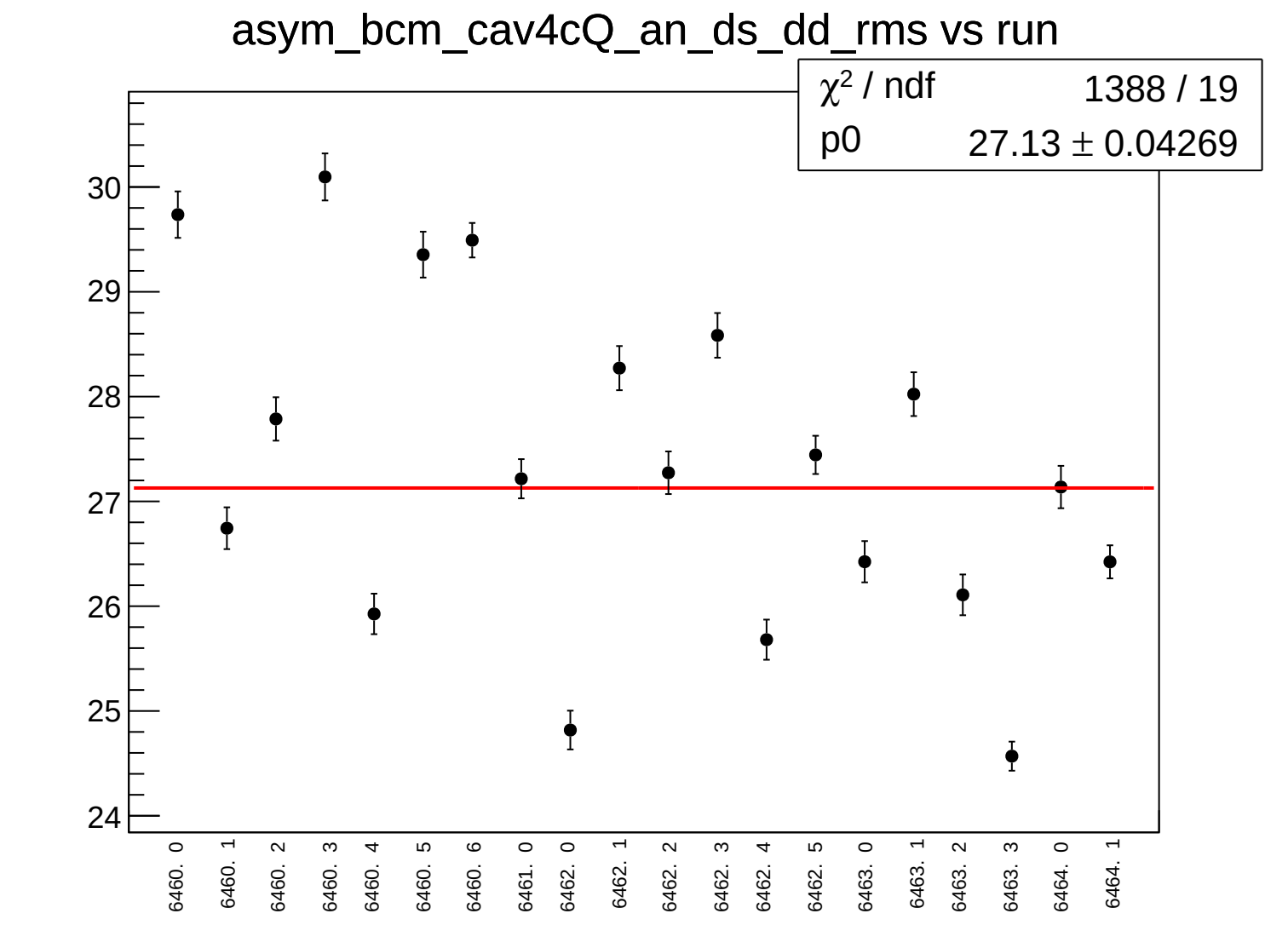

pull1D
Entries 20
Mean 0.001599
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

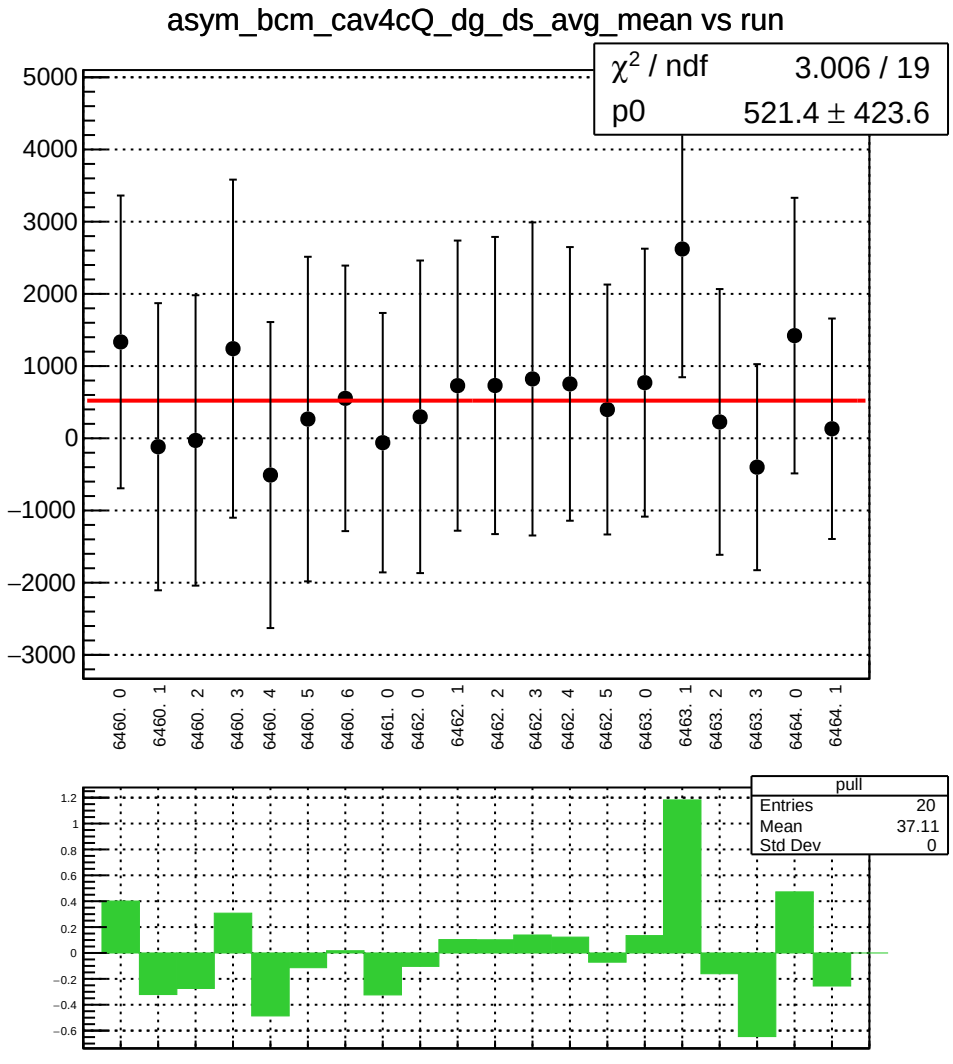

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 756.7 / 19
p0 25.5 ± 0.0401
28
27
26
25
24
23
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

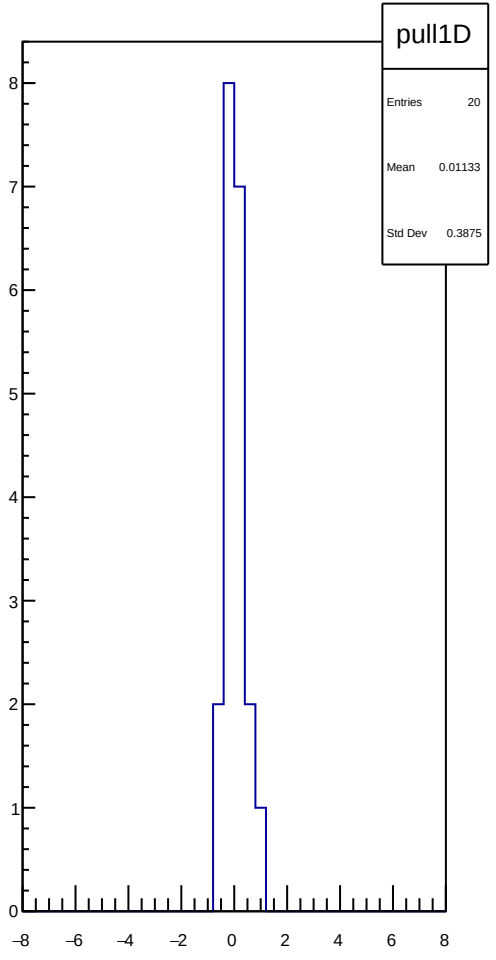

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 2.998 / 19
p0 612.5 ± 421.3
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 35.53
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.01145
Std Dev 0.387
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

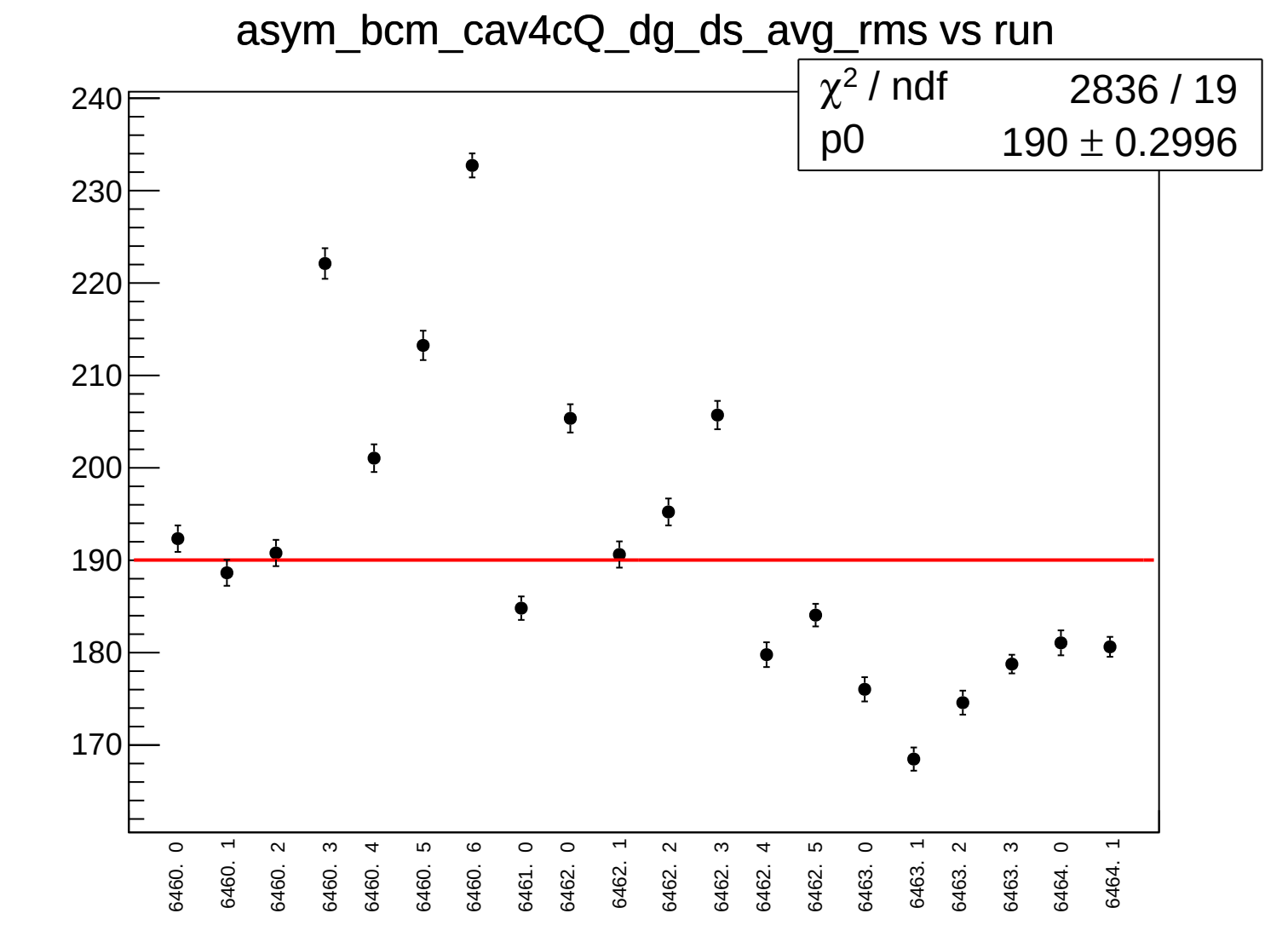

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2850 / 19
p0 189 ± 0.2979
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

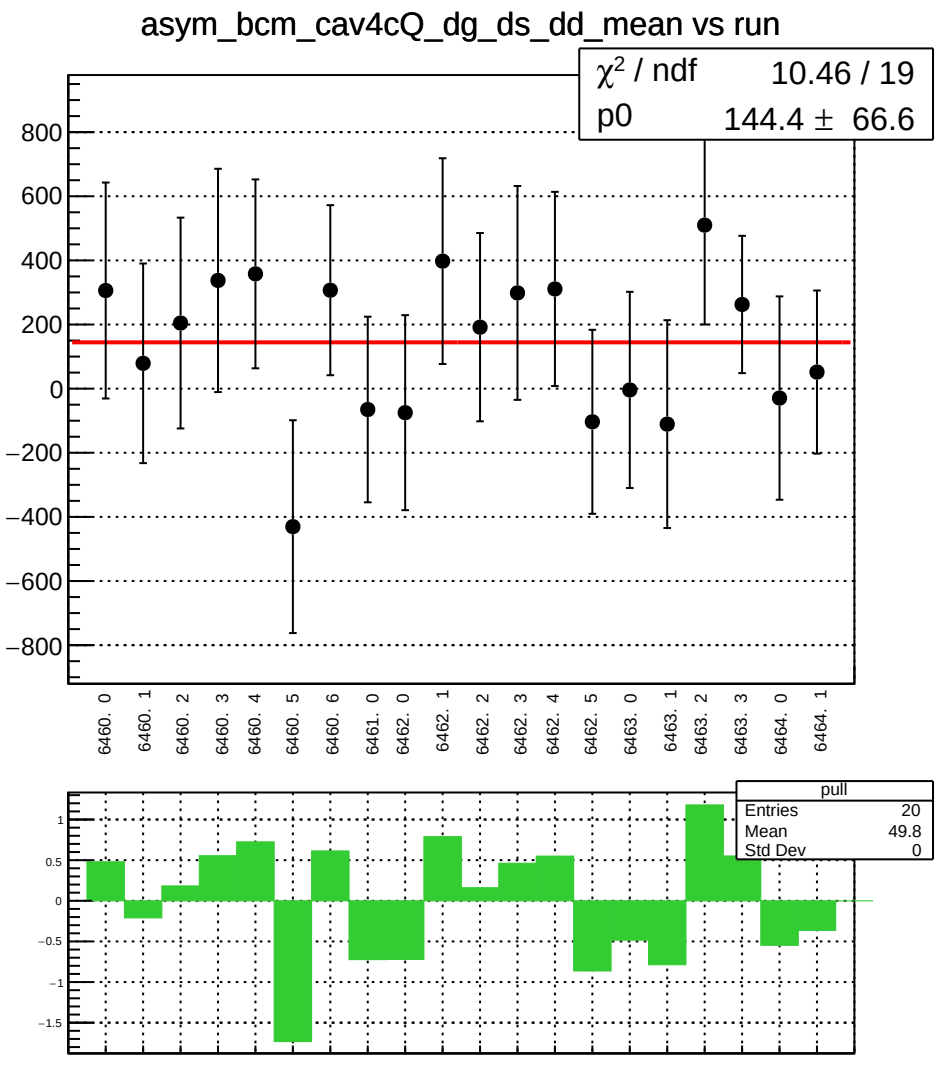

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 14.37 / 19
p0 50.75 ± 60.37
800
600
400
200
0
−200
−400
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.005475
Std Dev 0.8476
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

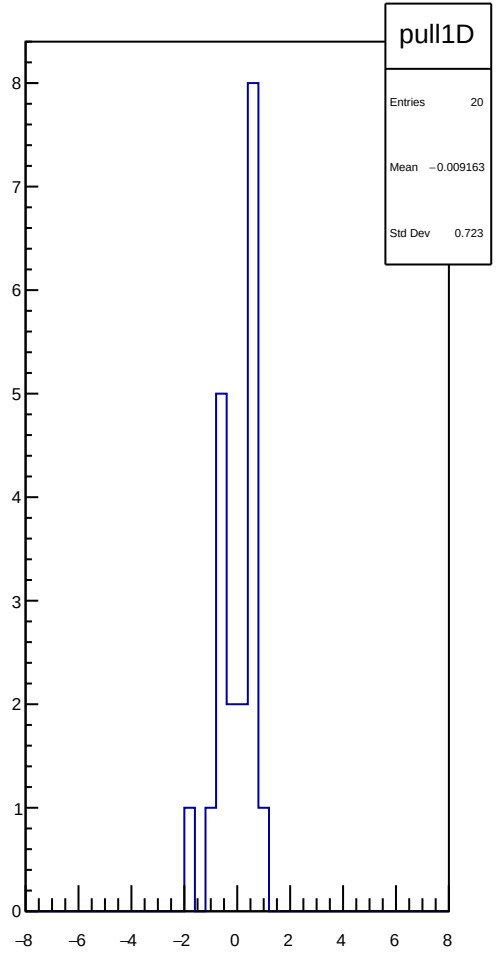

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1388 / 19
p0 27.13 ± 0.04269
30
29
28
27
26
25
24
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

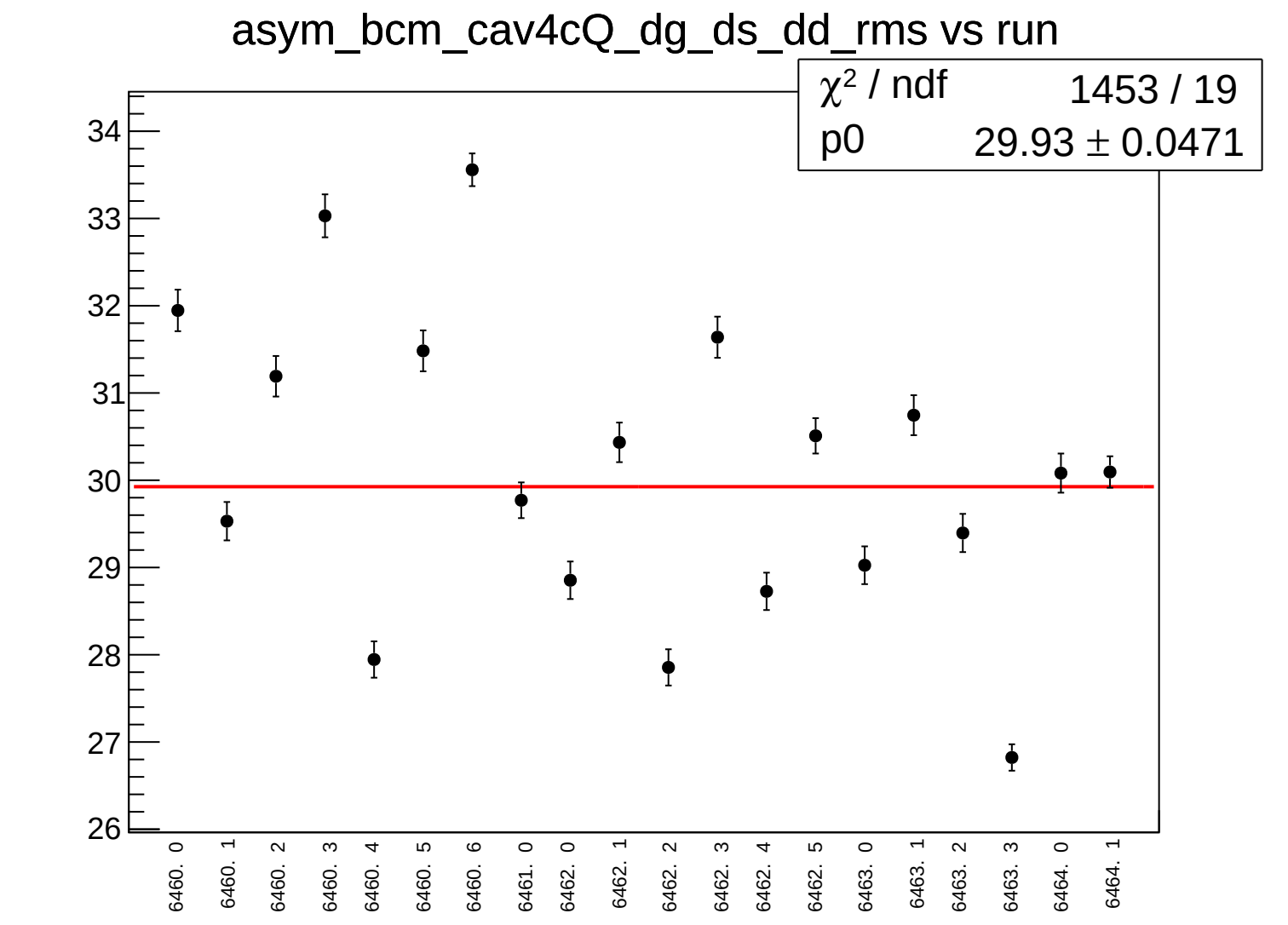

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 3.006 / 19
p0 521.4 ± 423.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.11
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

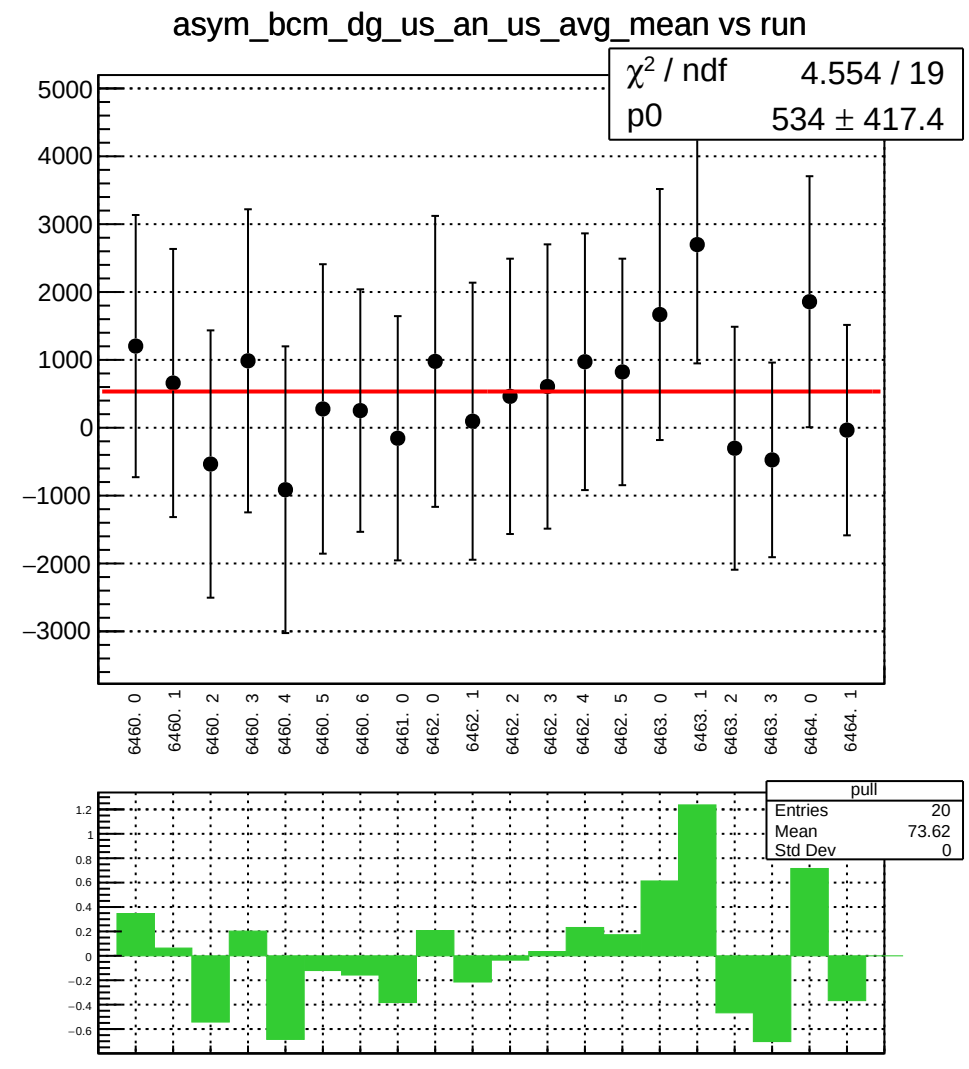

pull1D
Entries 20
Mean 0.01133
Std Dev 0.3875
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

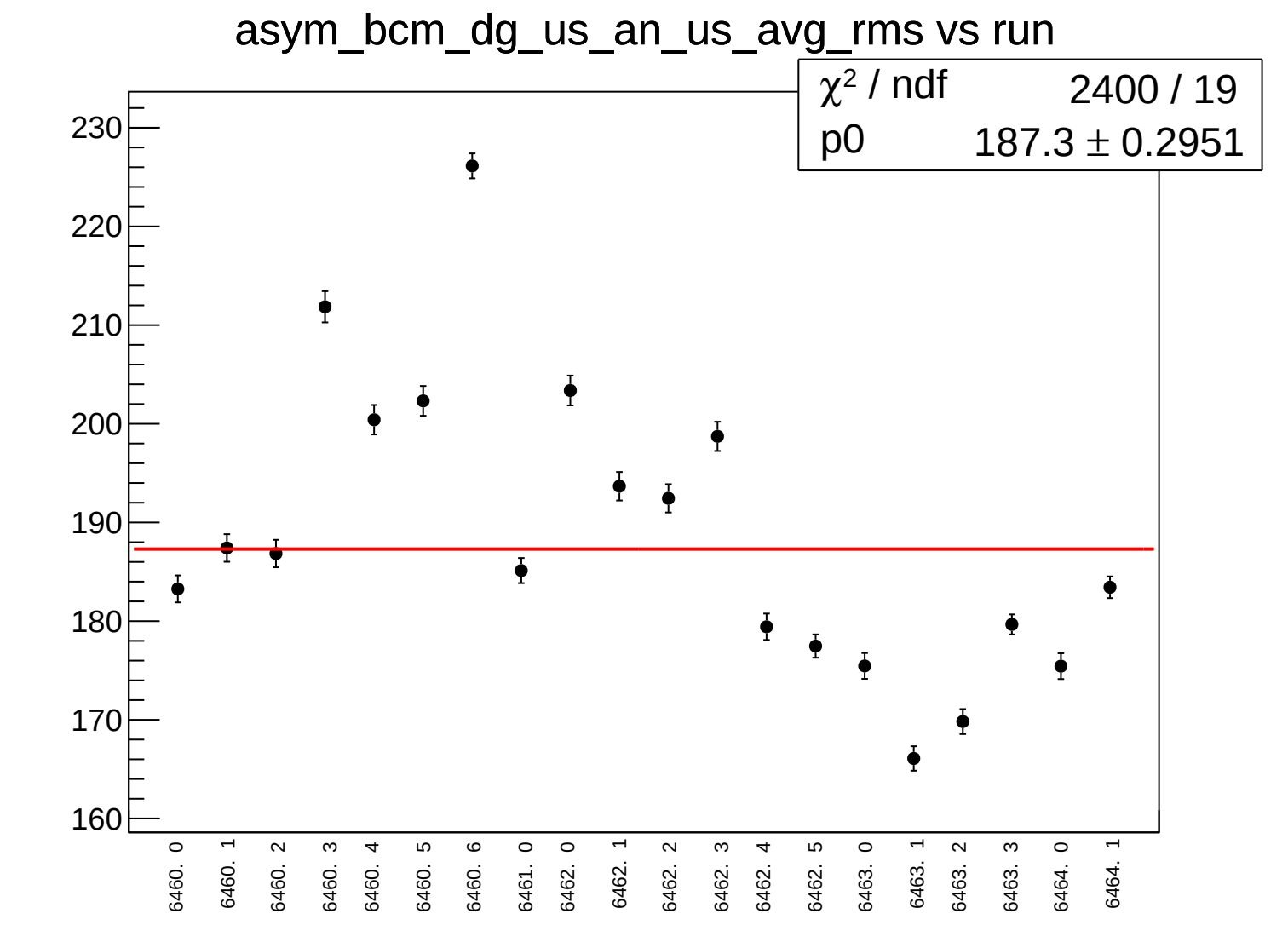

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2836 / 19
p0 190 ± 0.2996
240
230
220
210
200
190
180
170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

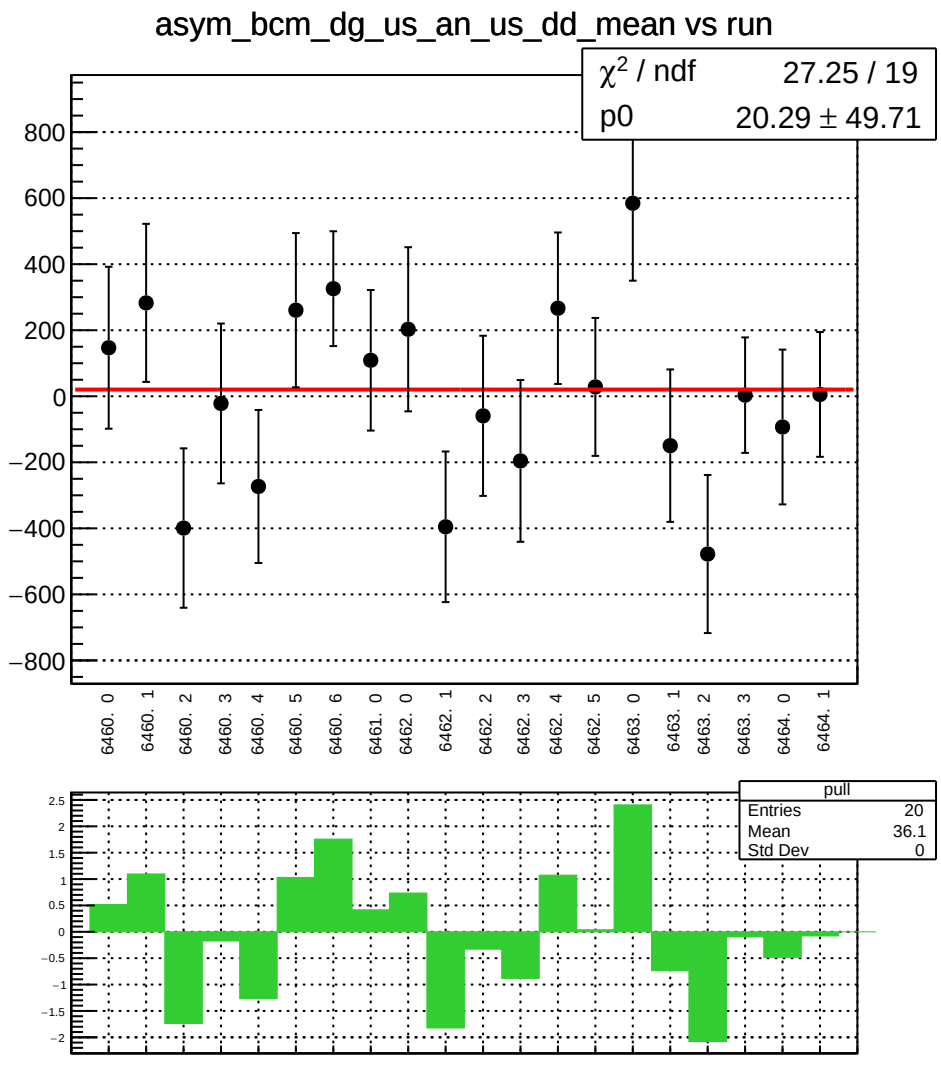

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 10.46 / 19
p0 144.4 ± 66.6
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 49.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

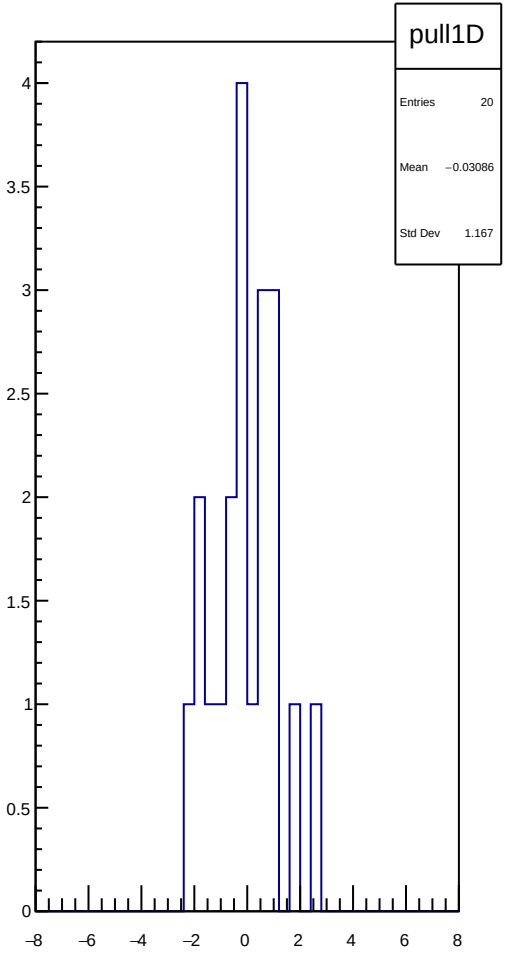

pull1D
Entries 20
Mean −0.009163
Std Dev 0.723
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

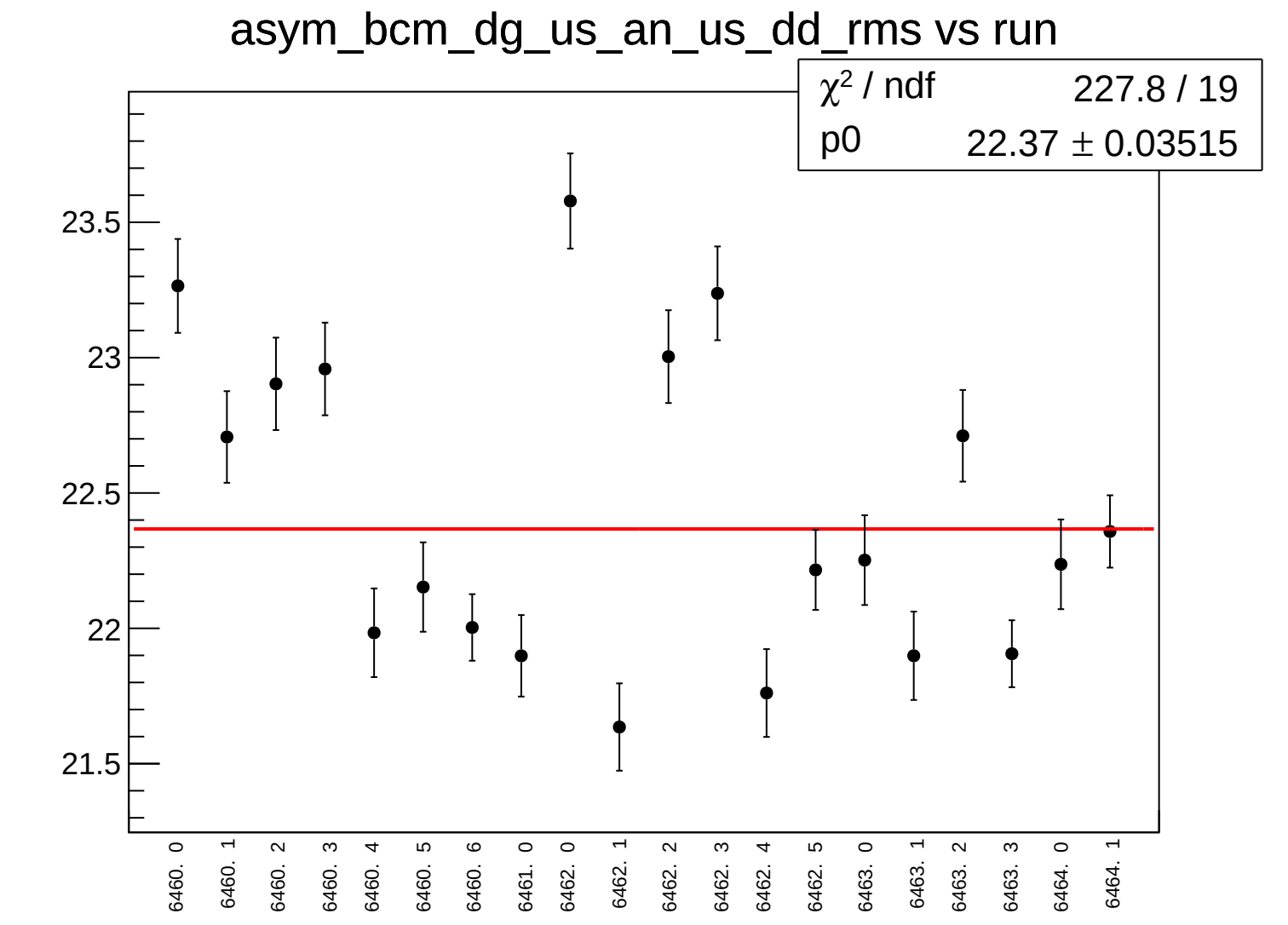

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 1453 / 19
p0 29.93 ± 0.0471
34
33
32
31
30
29
28
27
26
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

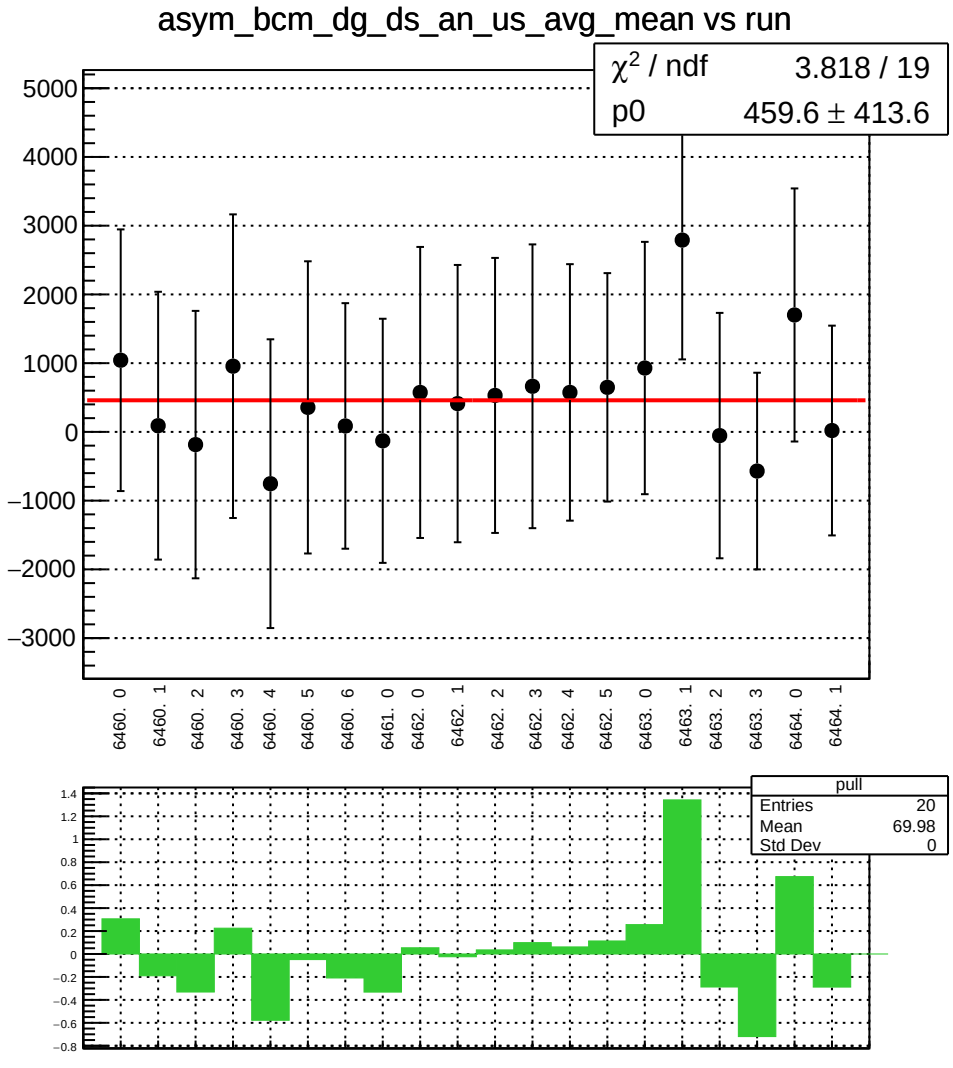

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 4.554 / 19
p0 534 ± 417.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.62
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.007552
Std Dev 0.4771
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

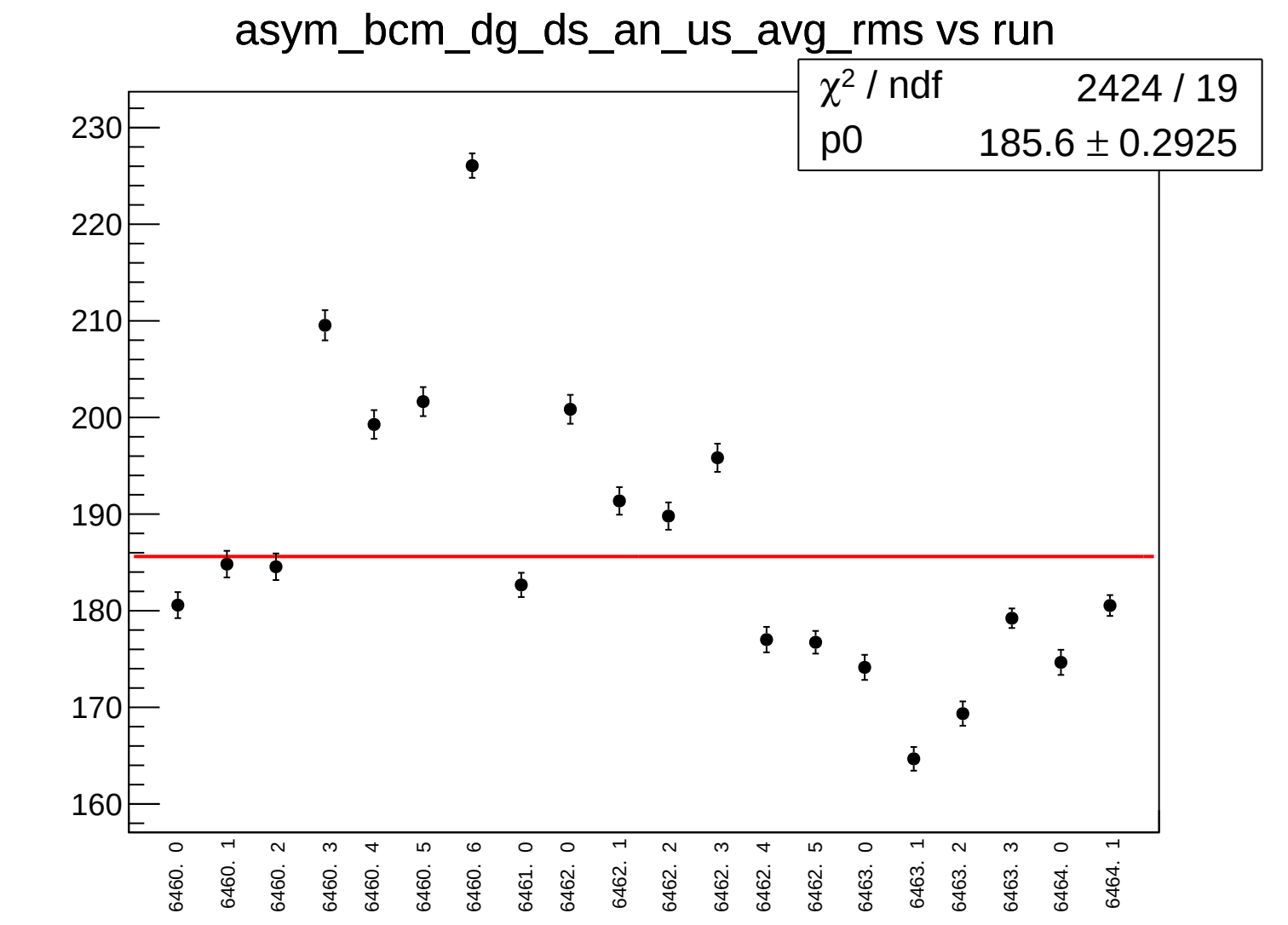

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 2400 / 19
p0 187.3 ± 0.2951
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

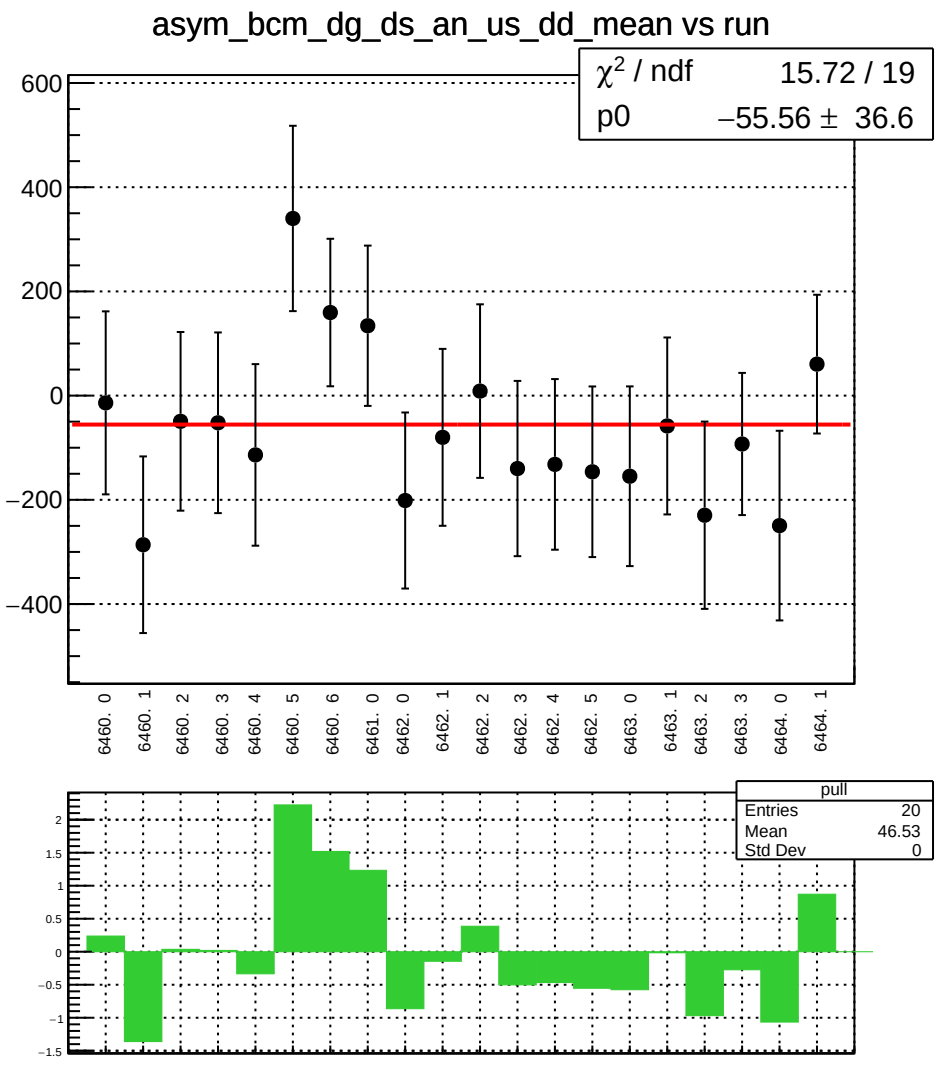

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 27.25 / 19
p0 20.29 ± 49.71
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

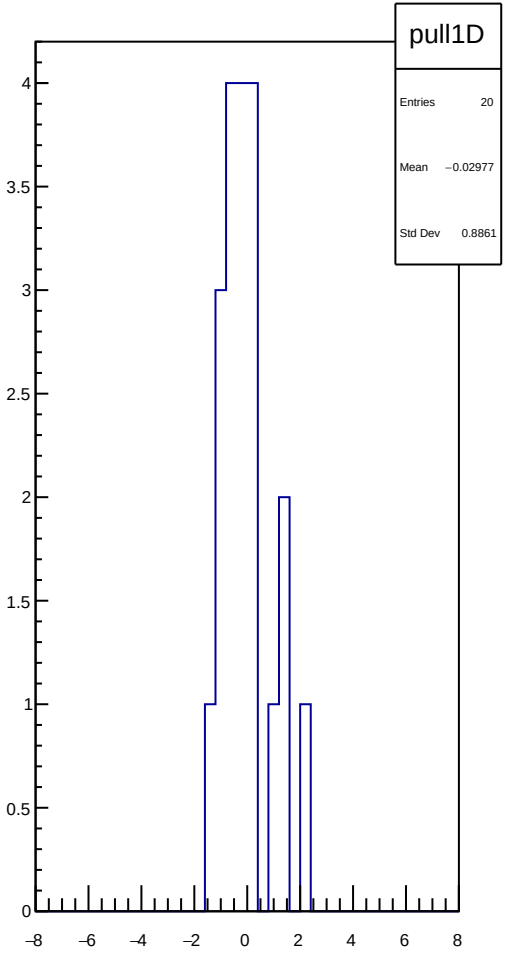

pull1D
Entries 20
Mean −0.03086
Std Dev 1.167
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

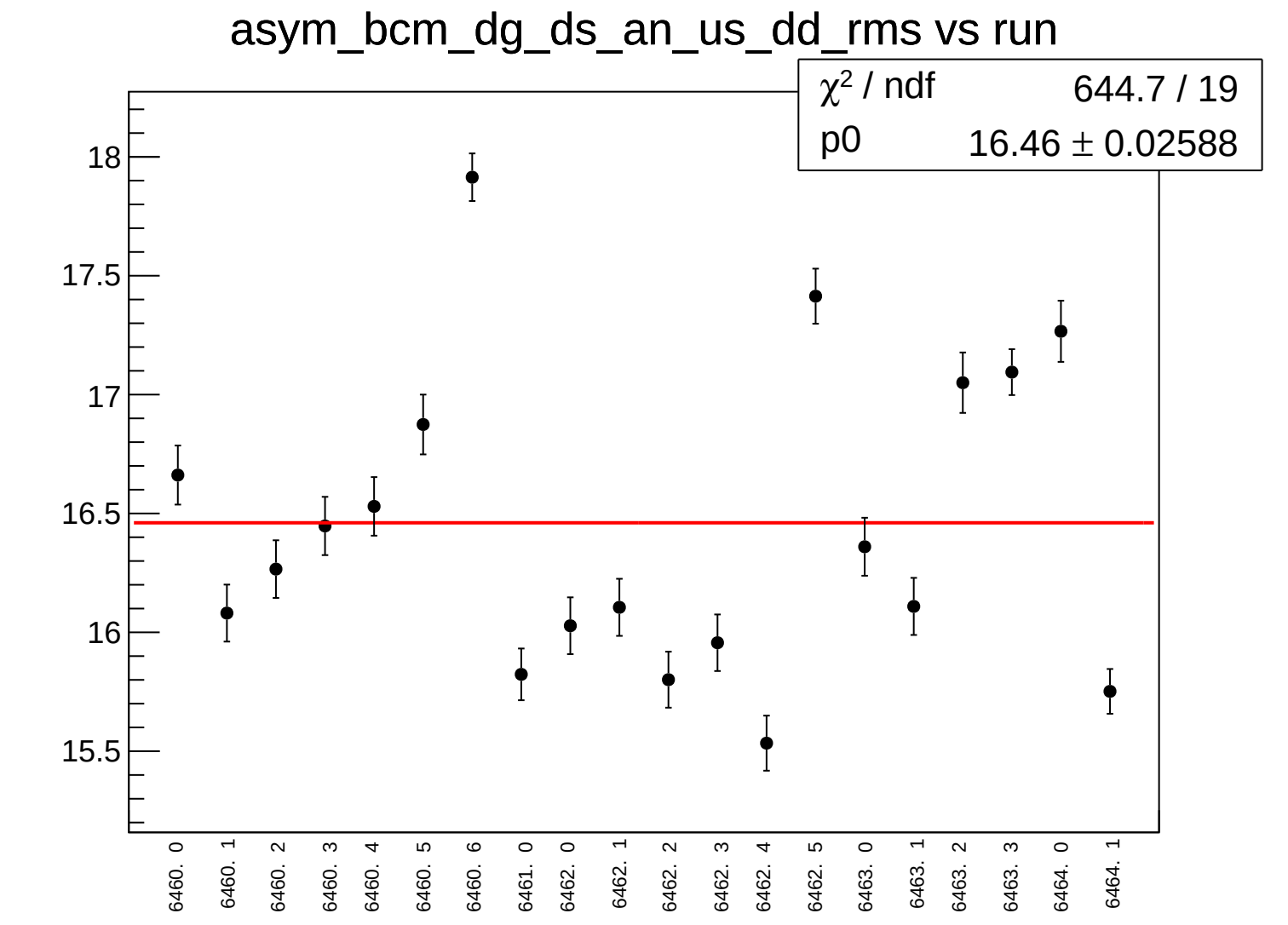

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 227.8 / 19
p0 22.37 ± 0.03515
23.5
23
22.5
22
21.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

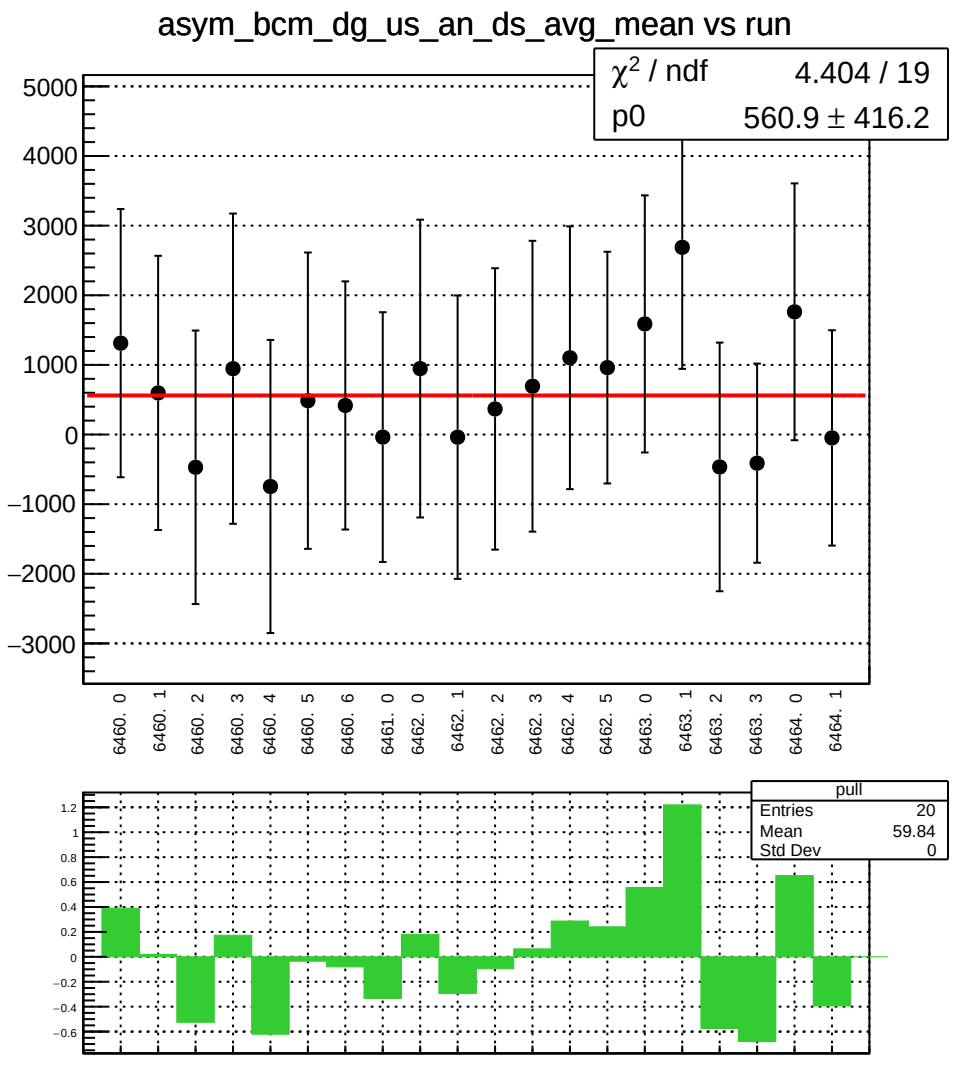

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 3.818 / 19
p0 459.6 ± 413.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.98
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.007997
Std Dev 0.4368
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

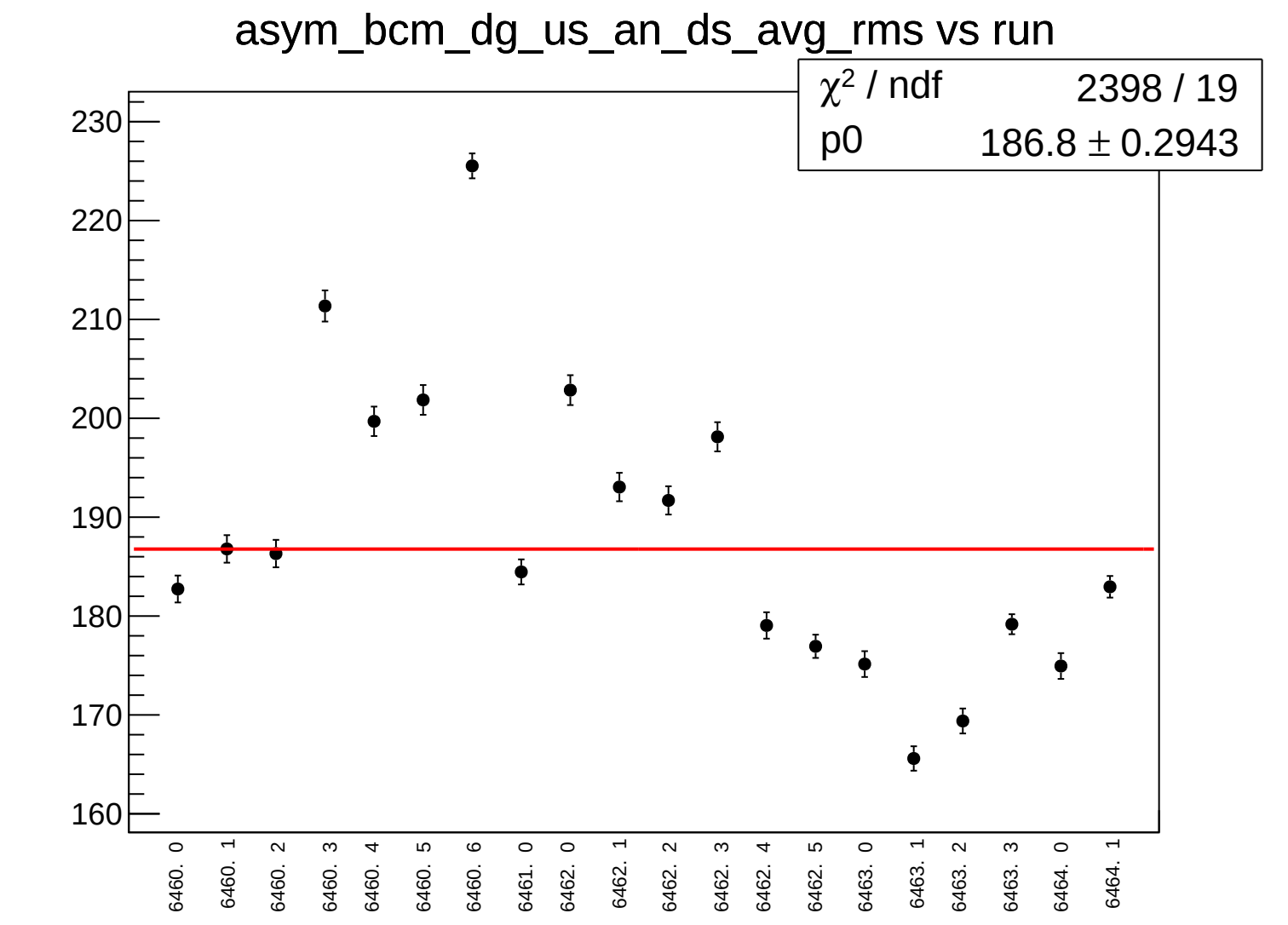

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2424 / 19
p0 185.6 ± 0.2925
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

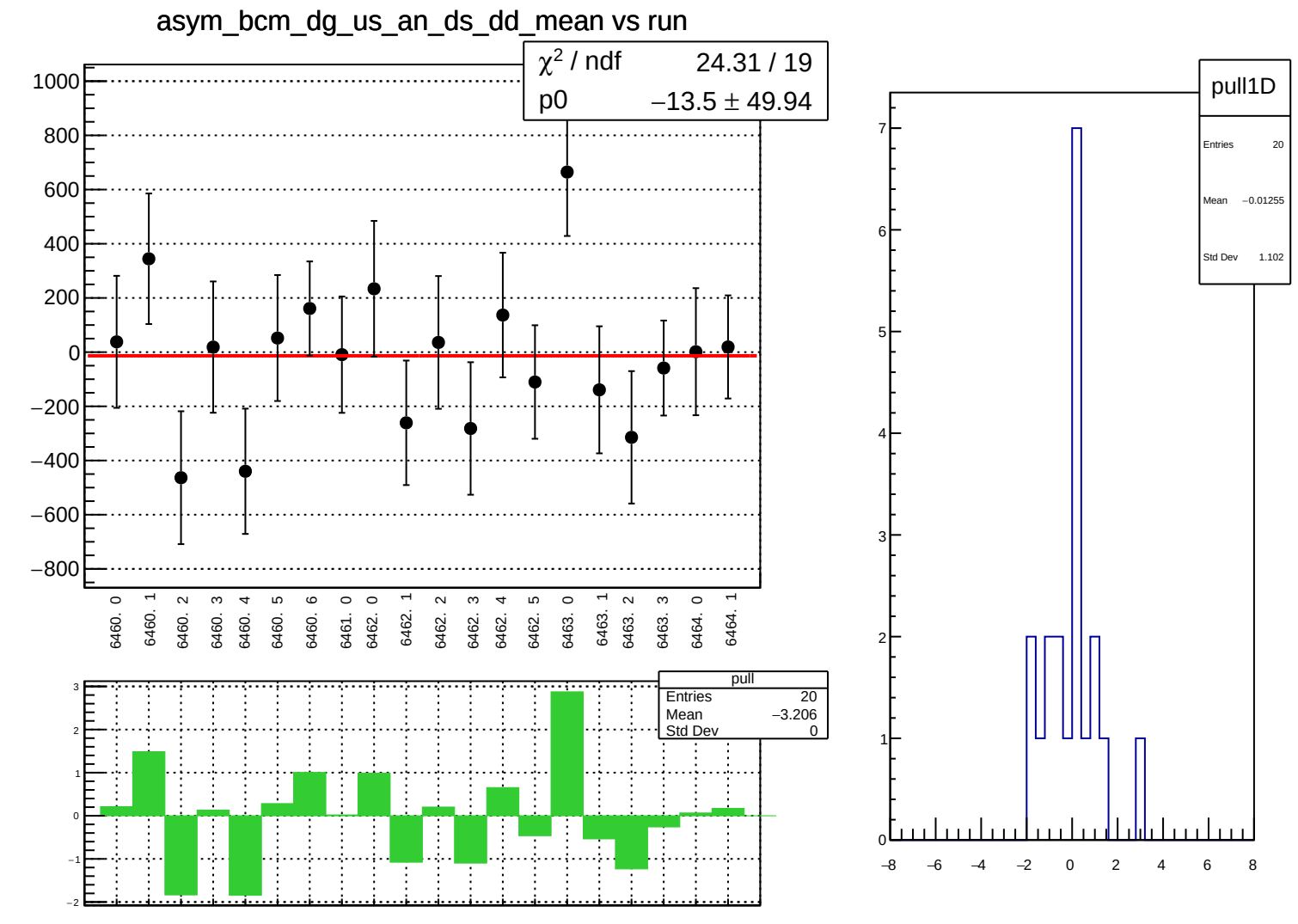

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 15.72 / 19
p0 −55.56 ± 36.6
600
400
200
0
−200
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

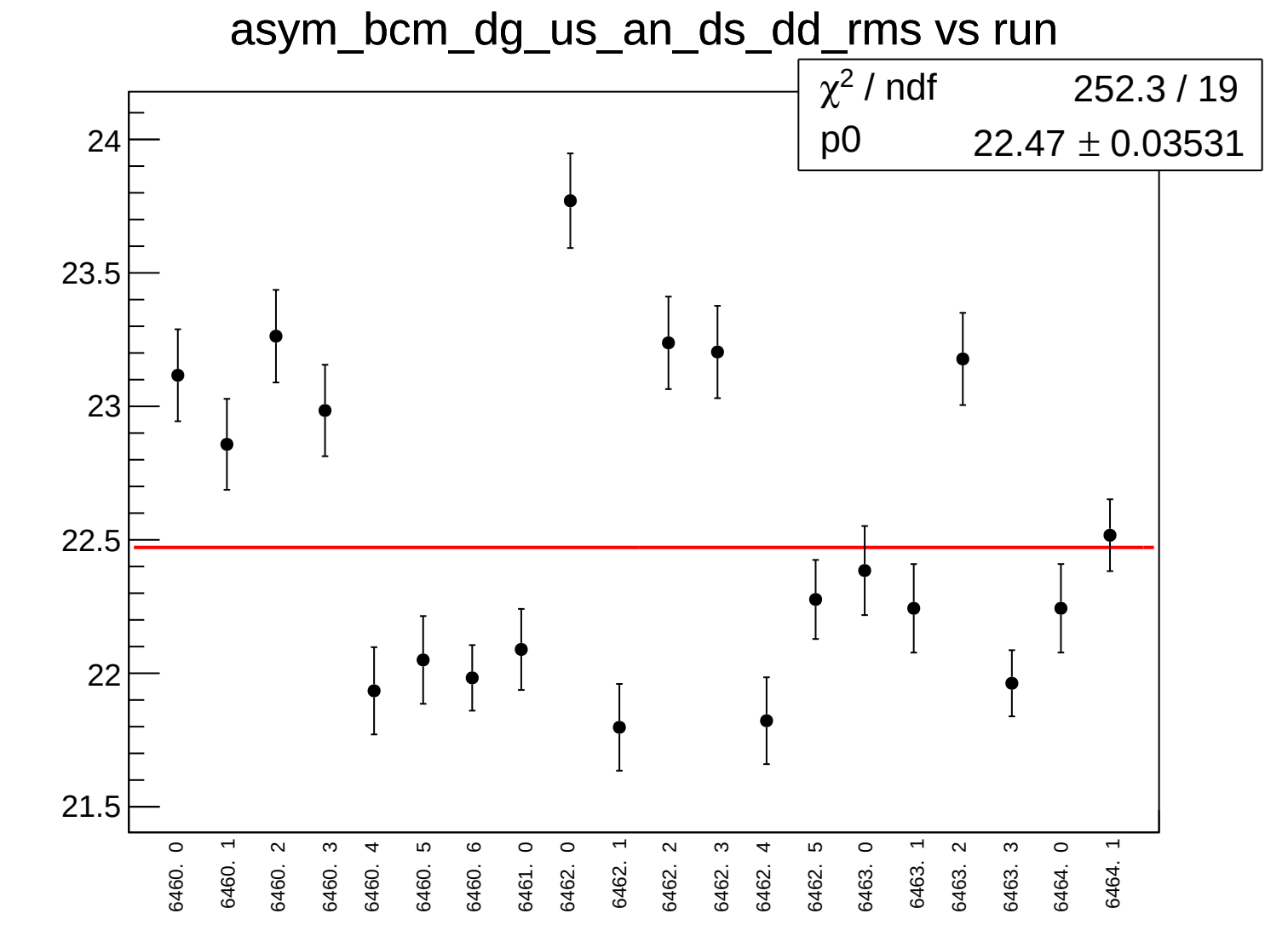

pull1D
Entries 20
Mean −0.02977
Std Dev 0.8861
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

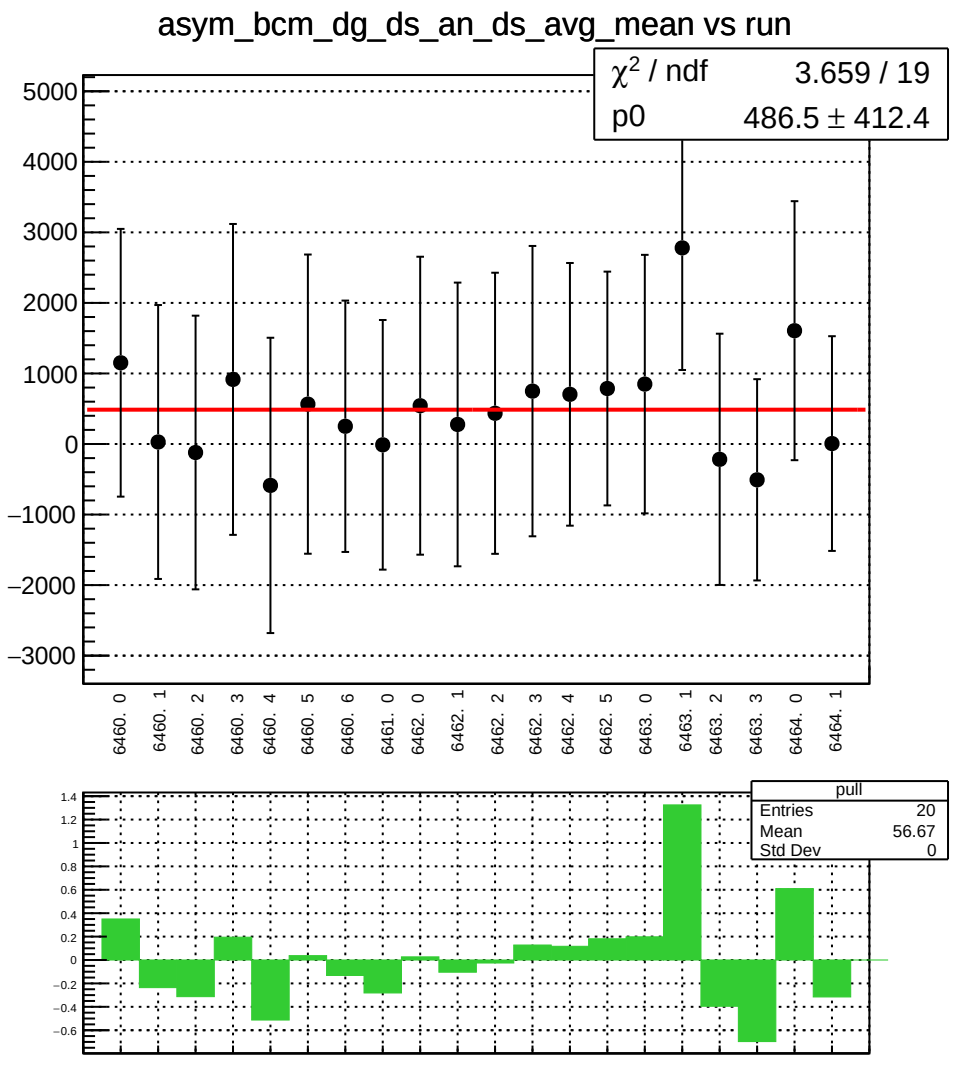

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 644.7 / 19
p0 16.46 ± 0.02588
18
17.5
17
16.5
16
15.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

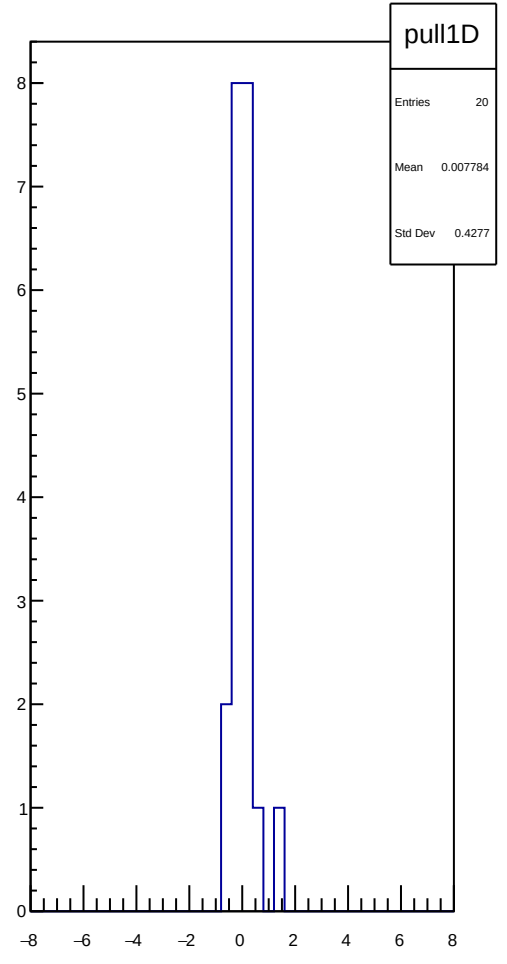

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 4.404 / 19
p0 560.9 ± 416.2
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.84
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.007315
Std Dev 0.4692
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

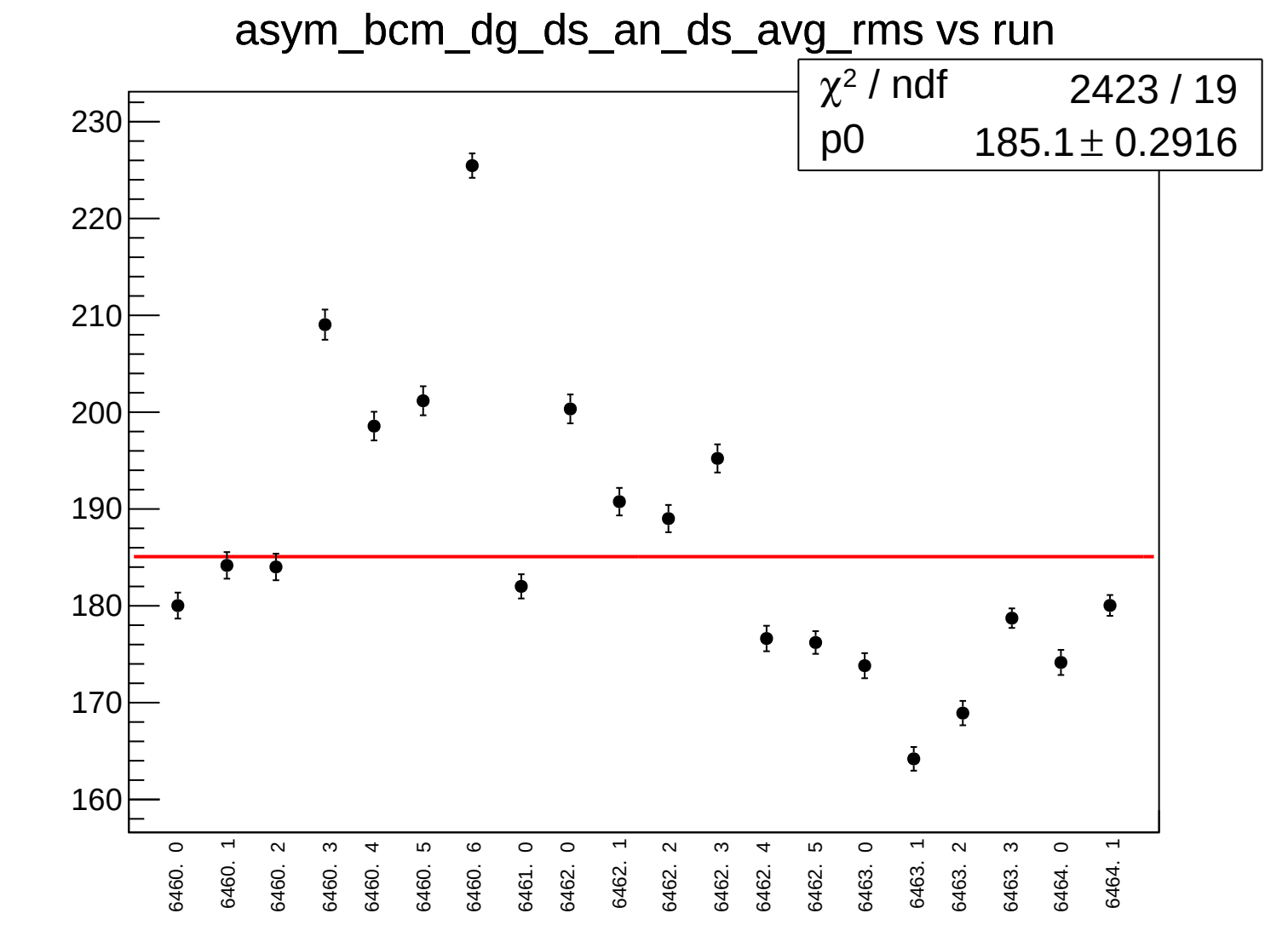

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 2398 / 19
p0 186.8 ± 0.2943
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

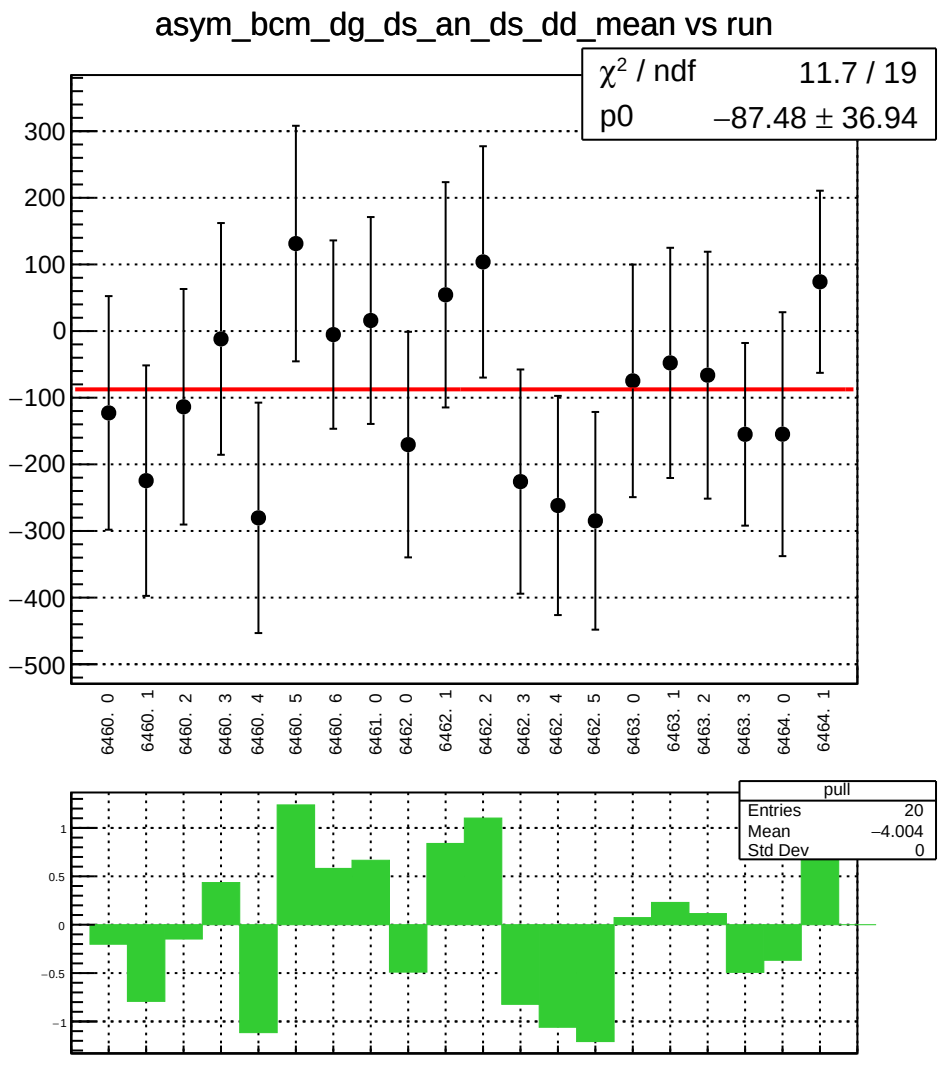

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 24.31 / 19
p0 −13.5 ± 49.94
1000
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −3.206
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.01255
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

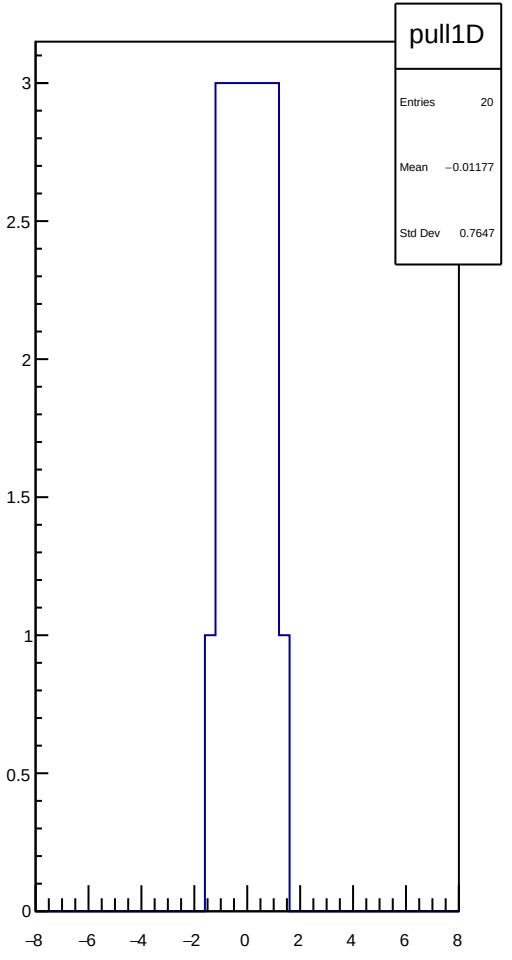

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 252.3 / 19
p0 22.47 ± 0.03531
24
23.5
23
22.5
22
21.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

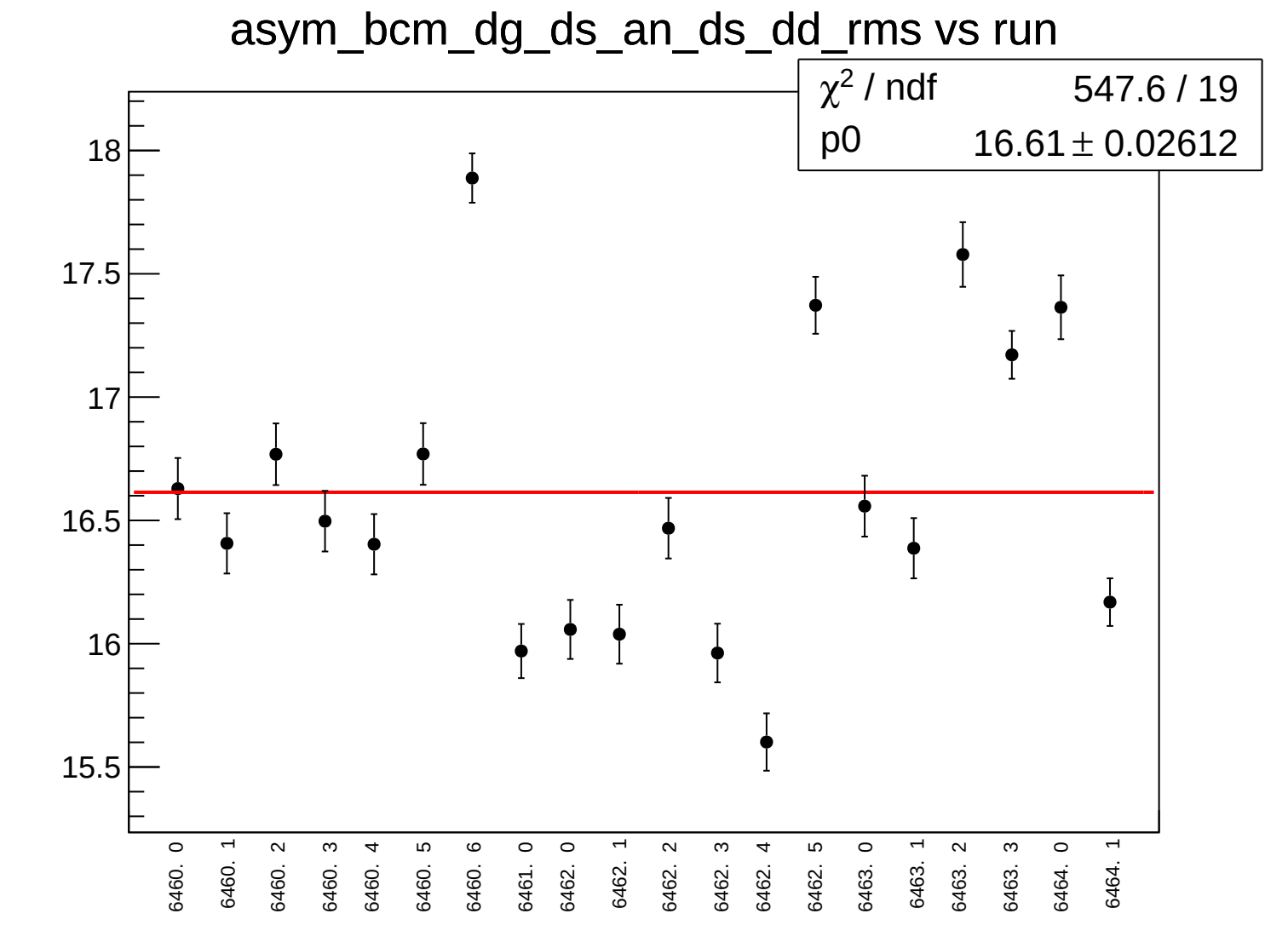

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 3.659 / 19
p0 486.5 ± 412.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.67
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

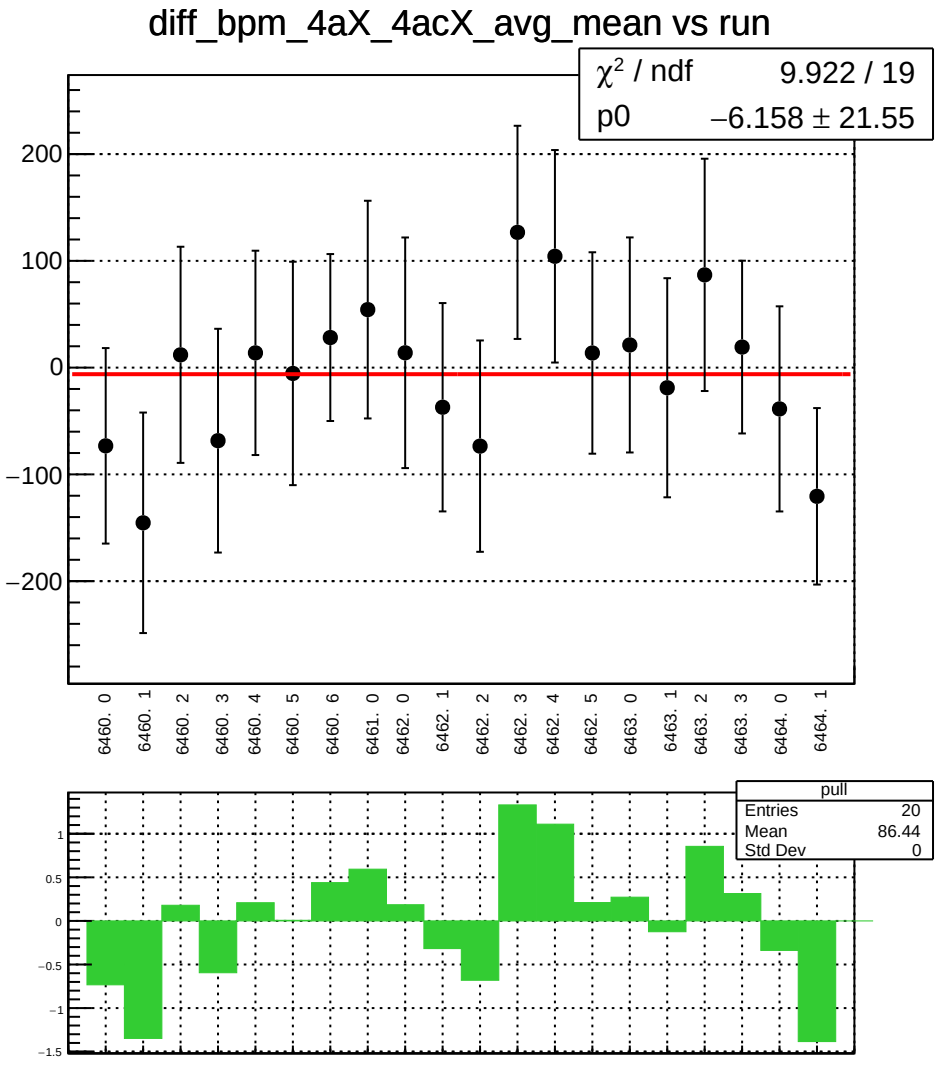

pull1D
Entries 20
Mean 0.007784
Std Dev 0.4277
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

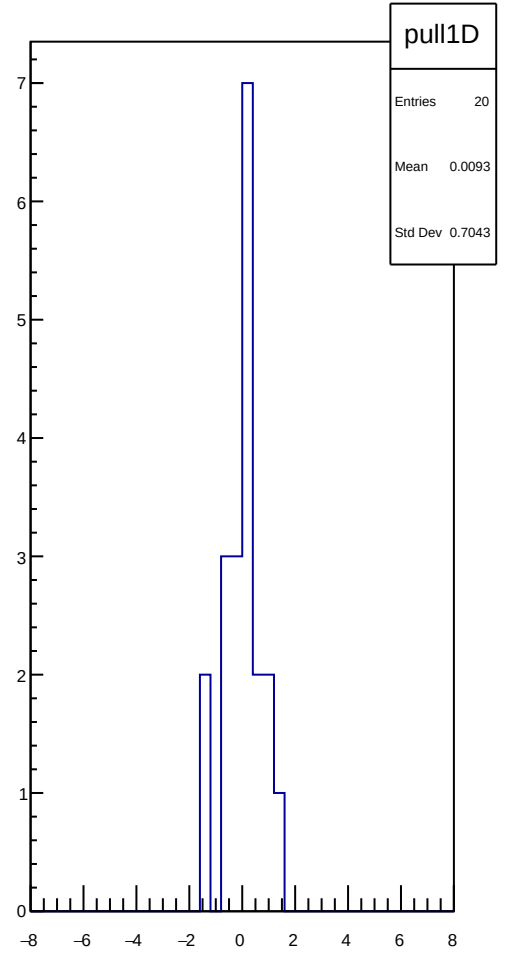

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2423 / 19
p0 185.1 ± 0.2916
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

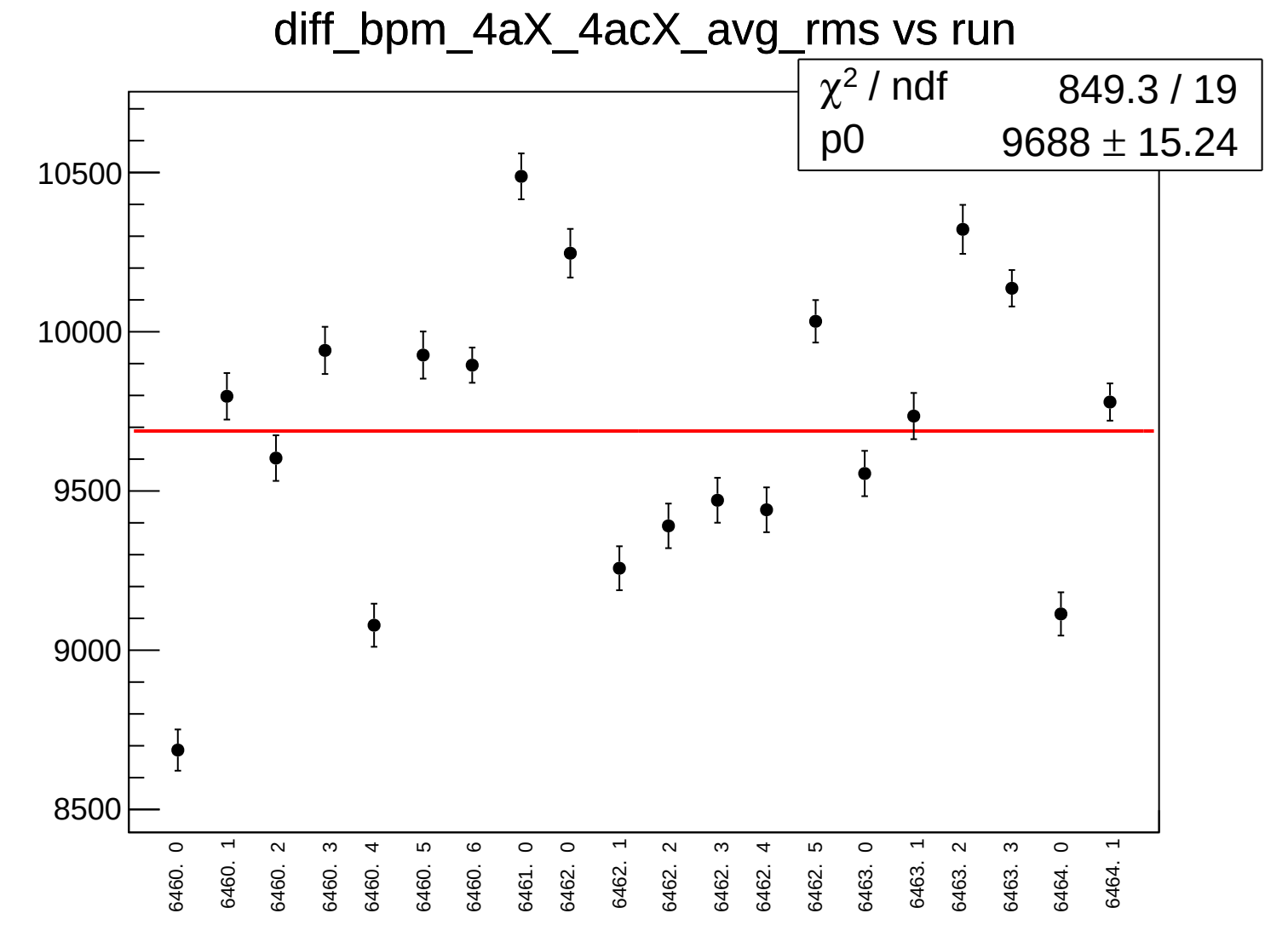

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 11.7 / 19
p0 −87.48 ± 36.94
300
200
100
0
−100
−200
−300
−400
−500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.004
Std Dev 0
1
0.5
0
−0.5
−1

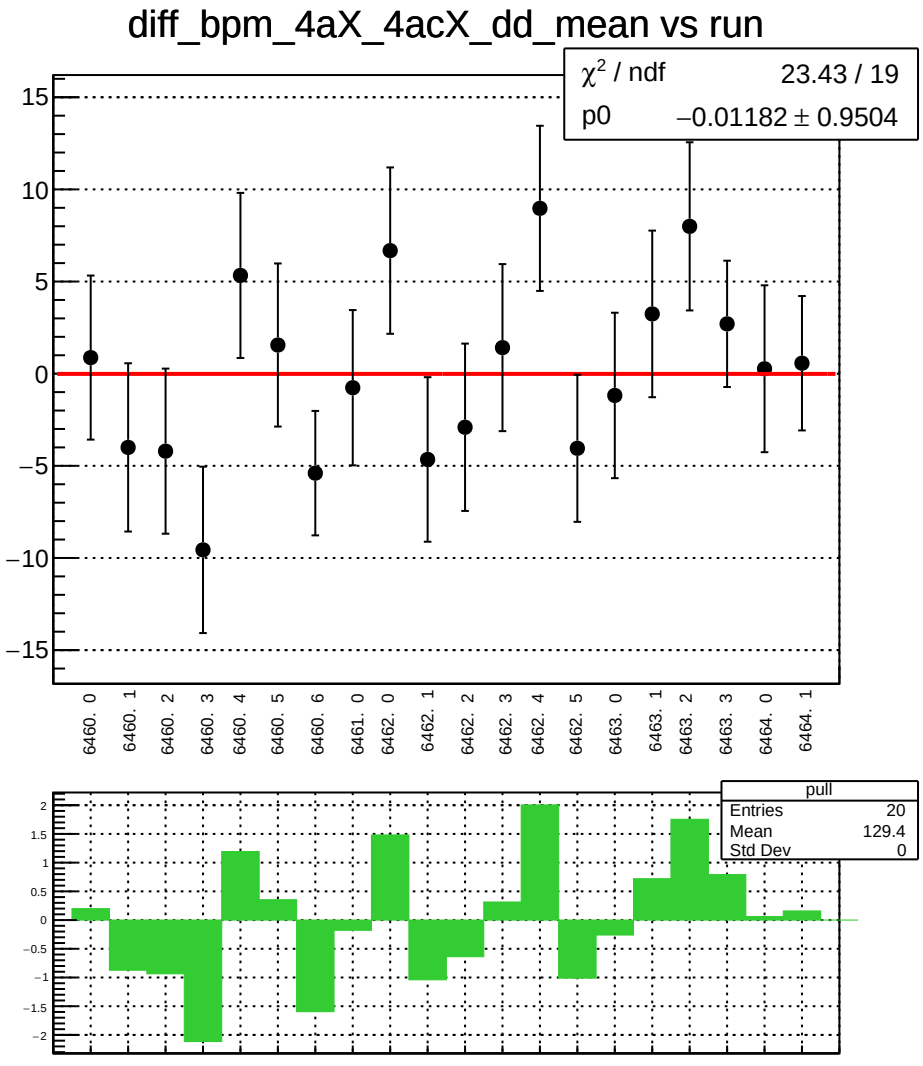

pull1D
Entries 20
Mean −0.01177
Std Dev 0.7647
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

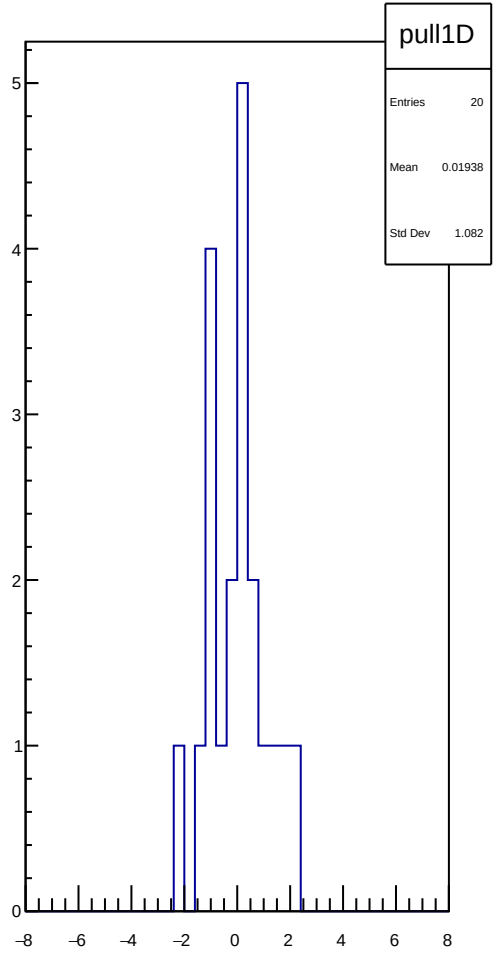

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 547.6 / 19
p0 16.61 ± 0.02612
18
17.5
17
16.5
16
15.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

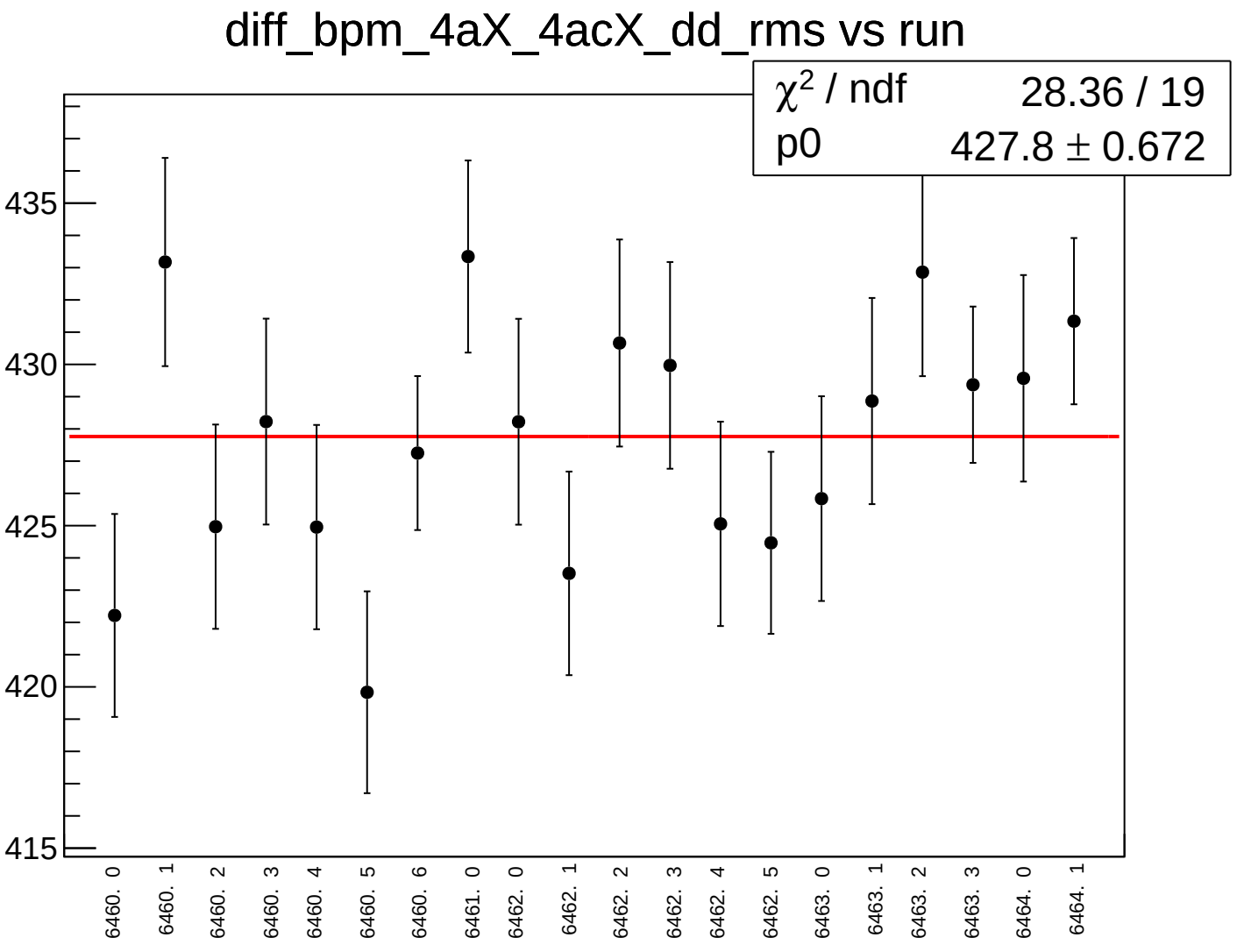

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 9.922 / 19
p0 −6.158 ± 21.55
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.44
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

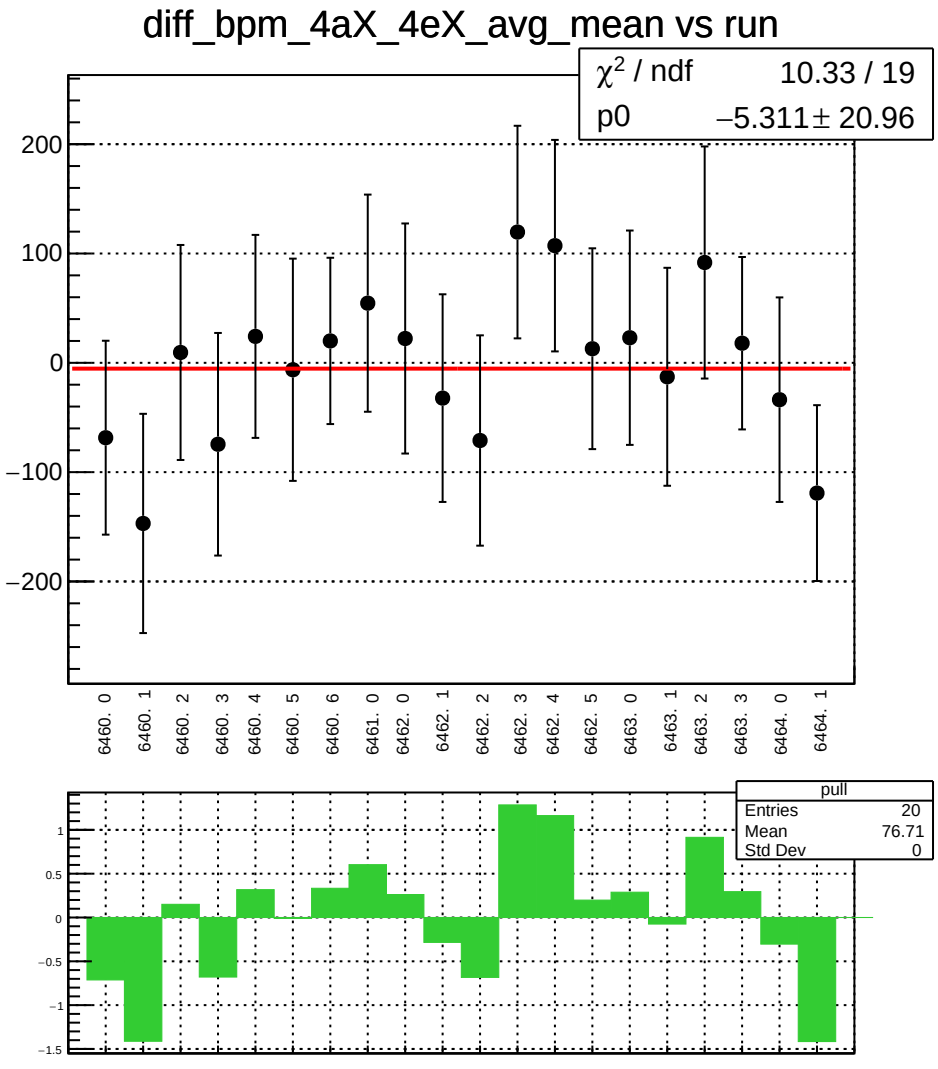

pull1D
Entries 20
Mean 0.0093
Std Dev 0.7043
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

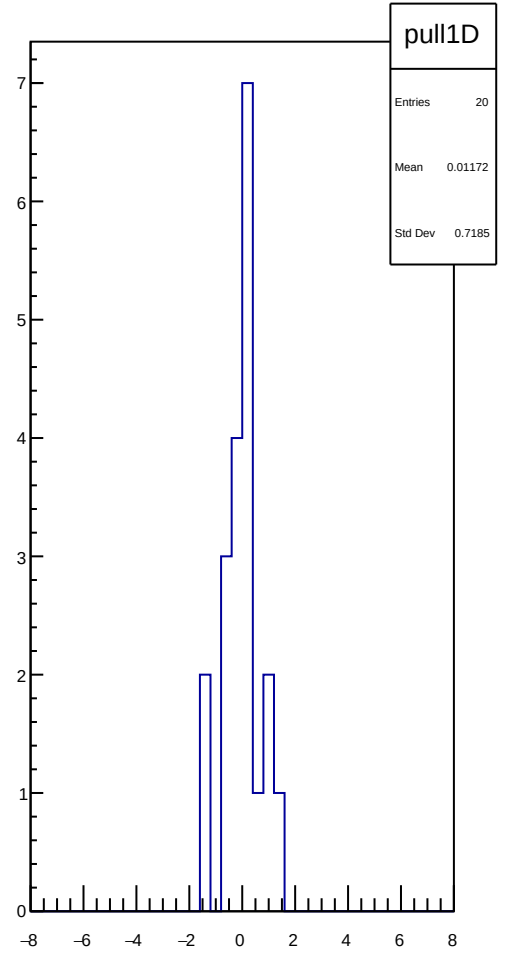

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 849.3 / 19
p0 9688 ± 15.24
10500
10000
9500
9000
8500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

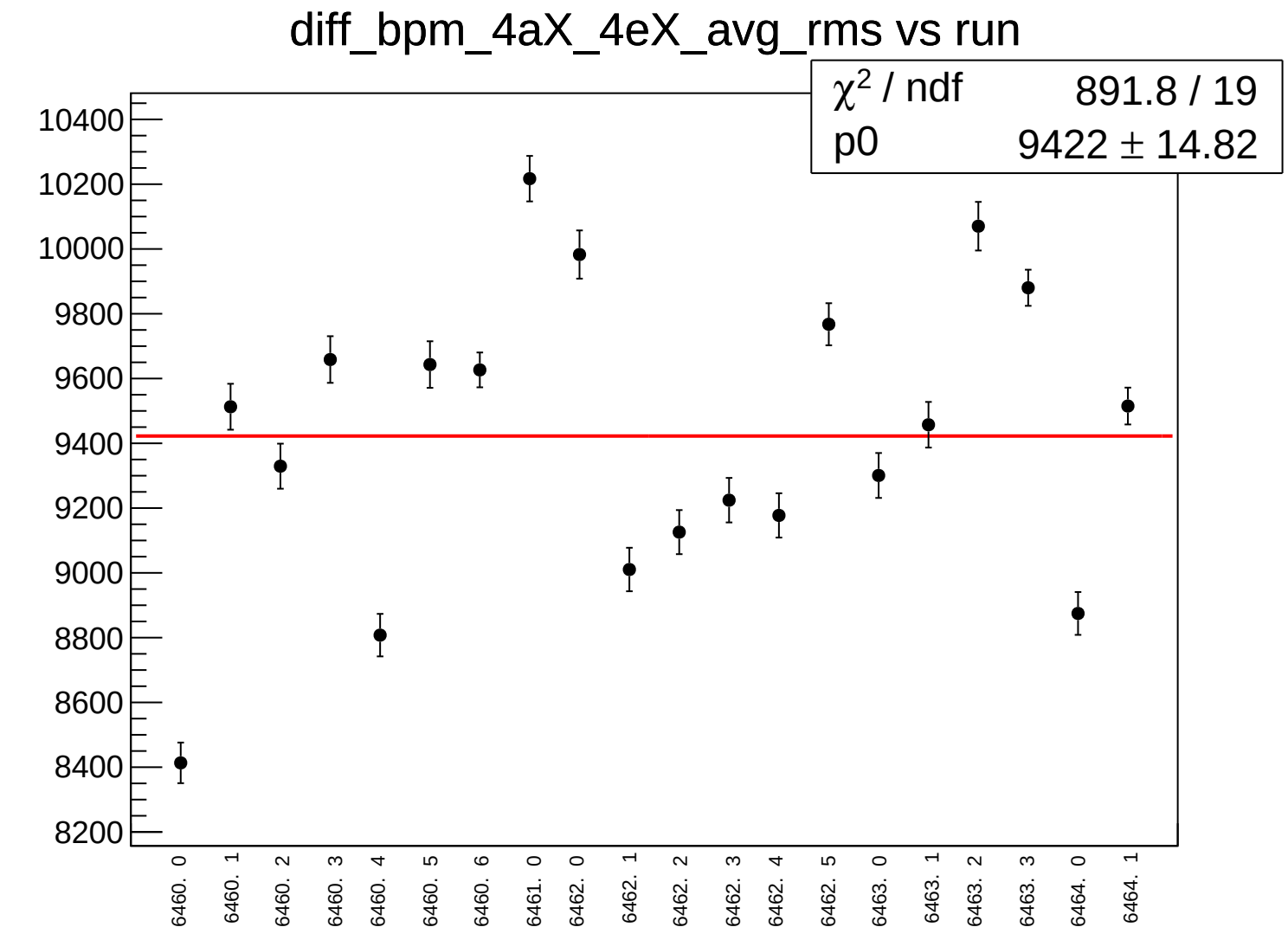

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 23.43 / 19
p0 −0.01182 ± 0.9504
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 129.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

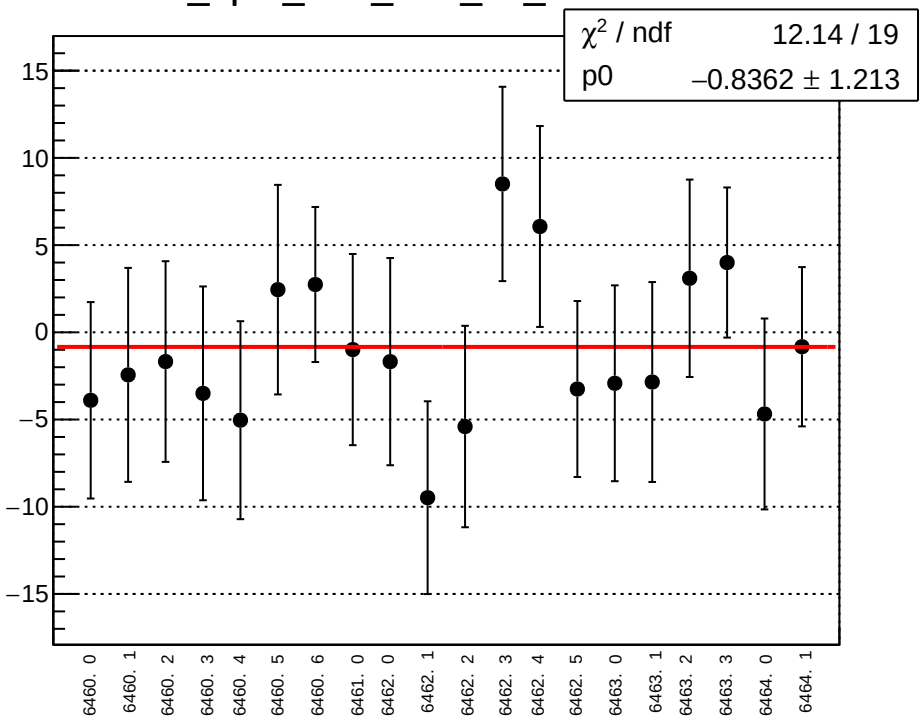

pull1D
Entries 20
Mean 0.01938
Std Dev 1.082
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

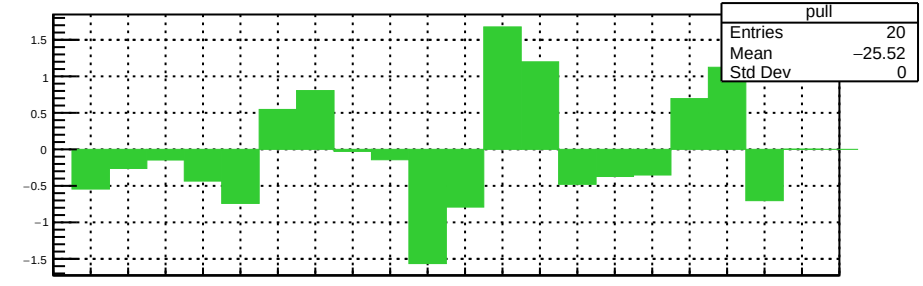

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 28.36 / 19
p0 427.8 ± 0.672
435
430
425
420
415
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

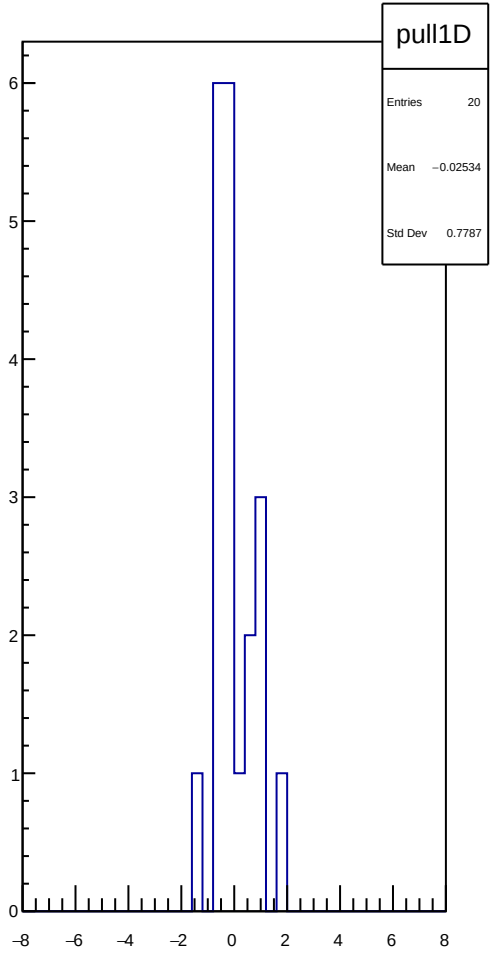

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 10.33 / 19
p0 −5.311 ± 20.96
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 76.71
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

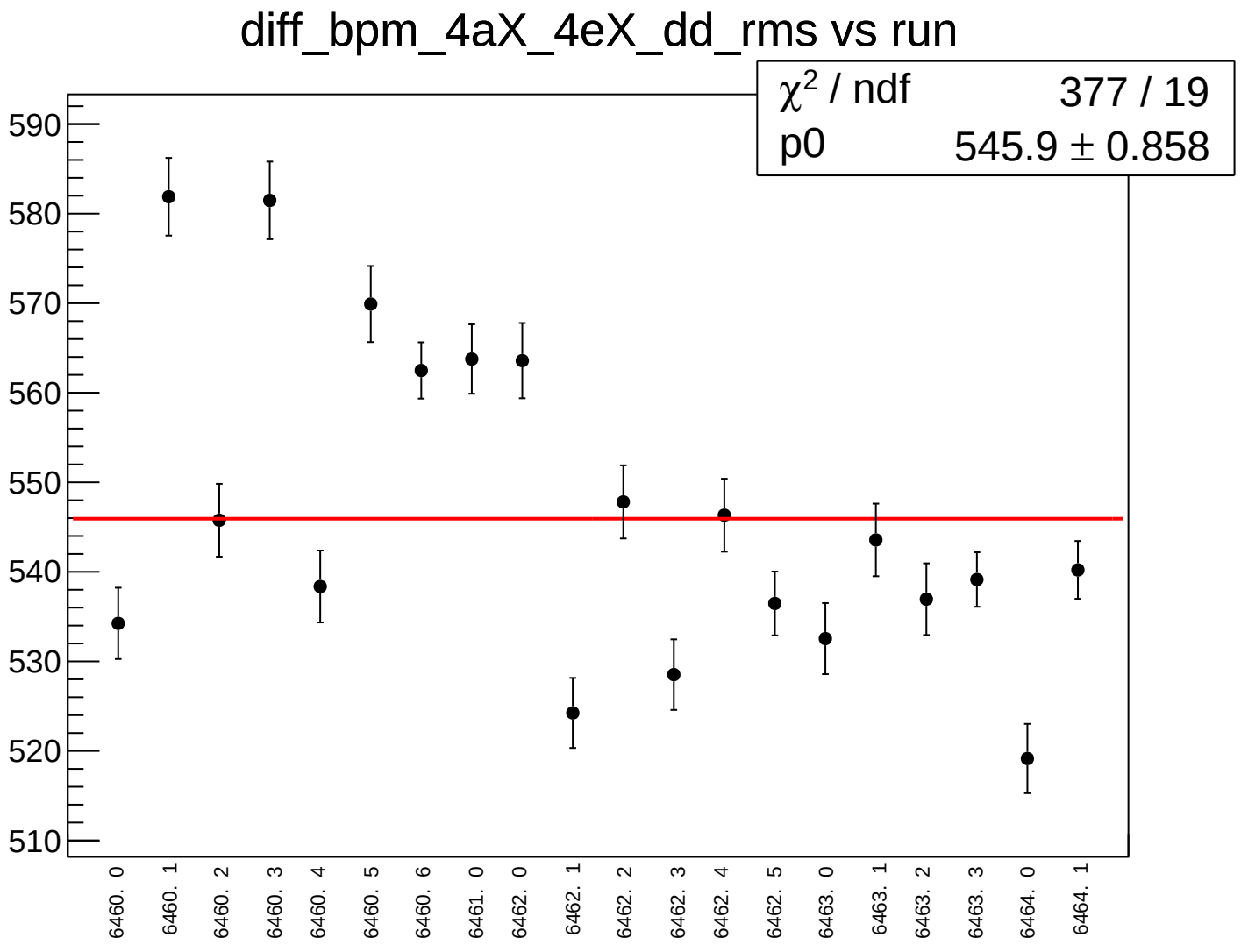

pull1D
Entries 20
Mean 0.01172
Std Dev 0.7185
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

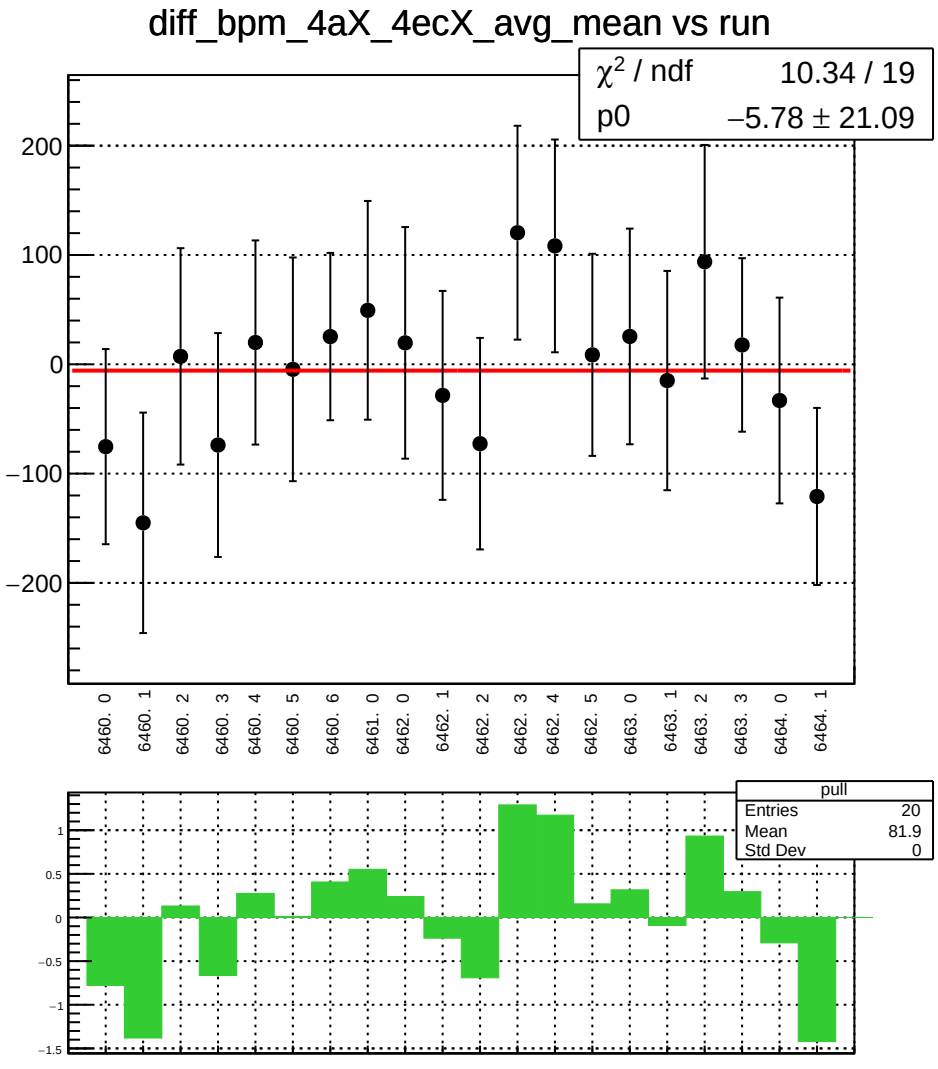

diff_bpm_4aX_4eX_avg_rms vs run
χ^2 / ndf 891.8 / 19
p0 9422 ± 14.82
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400
8200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

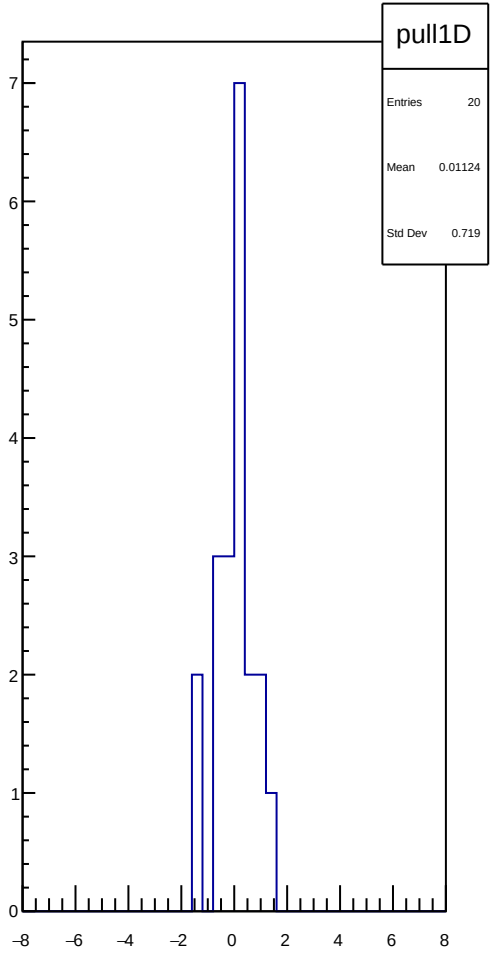

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 12.14 / 19
p0 −0.8362 ± 1.213
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

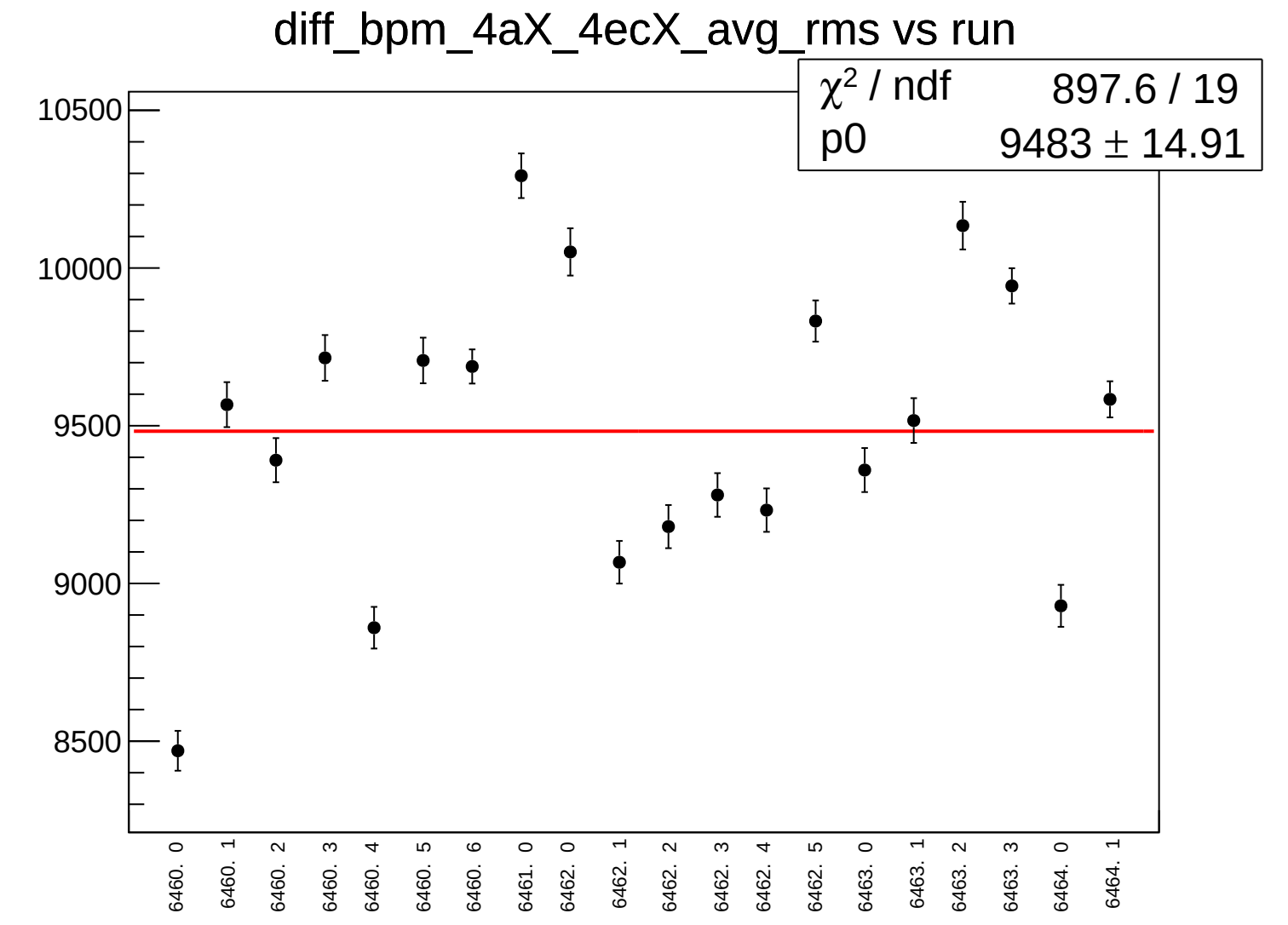

pull
Entries 20
Mean −25.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

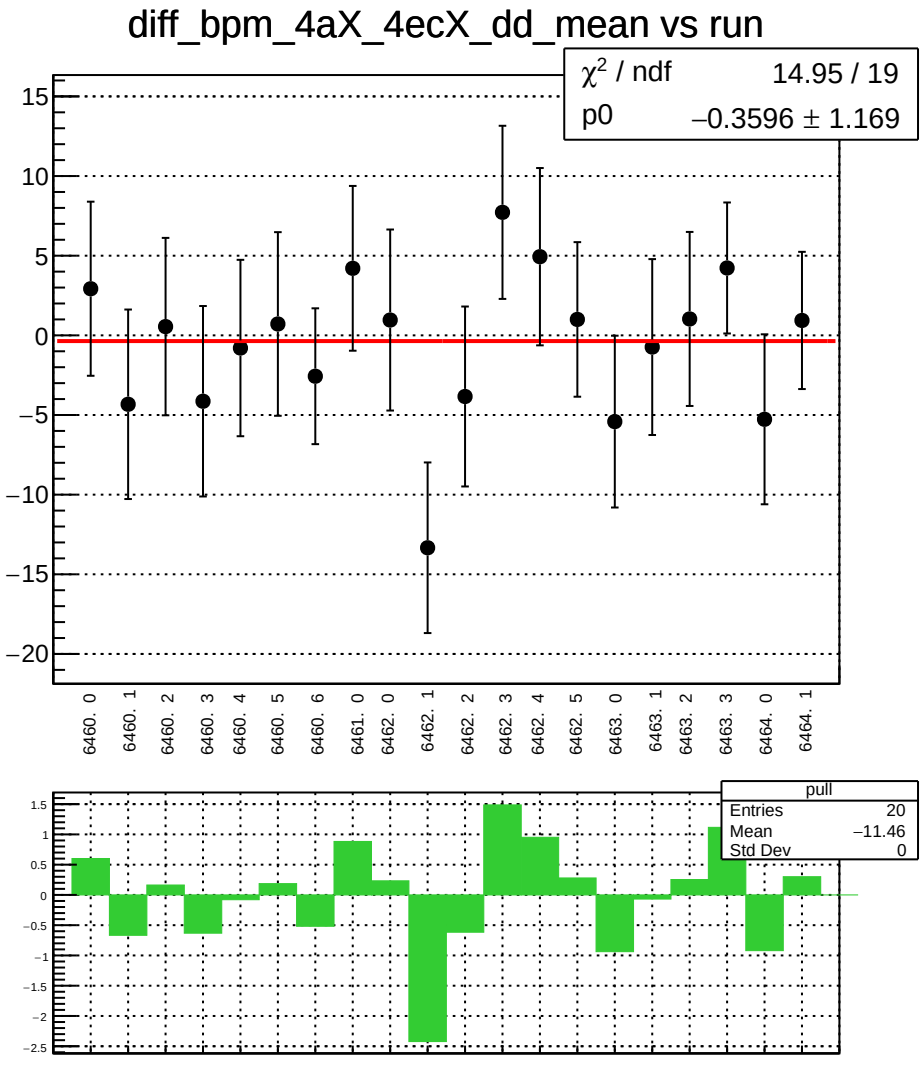

pull1D
Entries 20
Mean −0.02534
Std Dev 0.7787
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

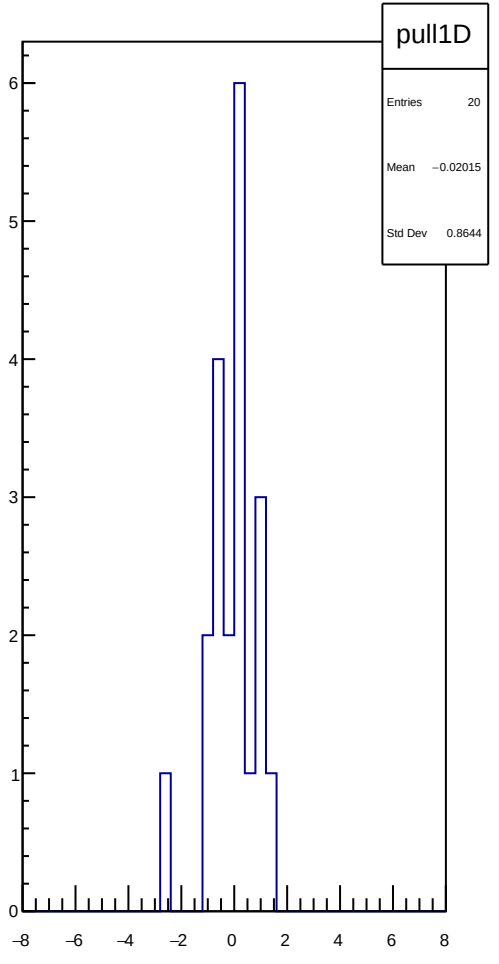

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 377 / 19
p0 545.9 ± 0.858
590
580
570
560
550
540
530
520
510
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

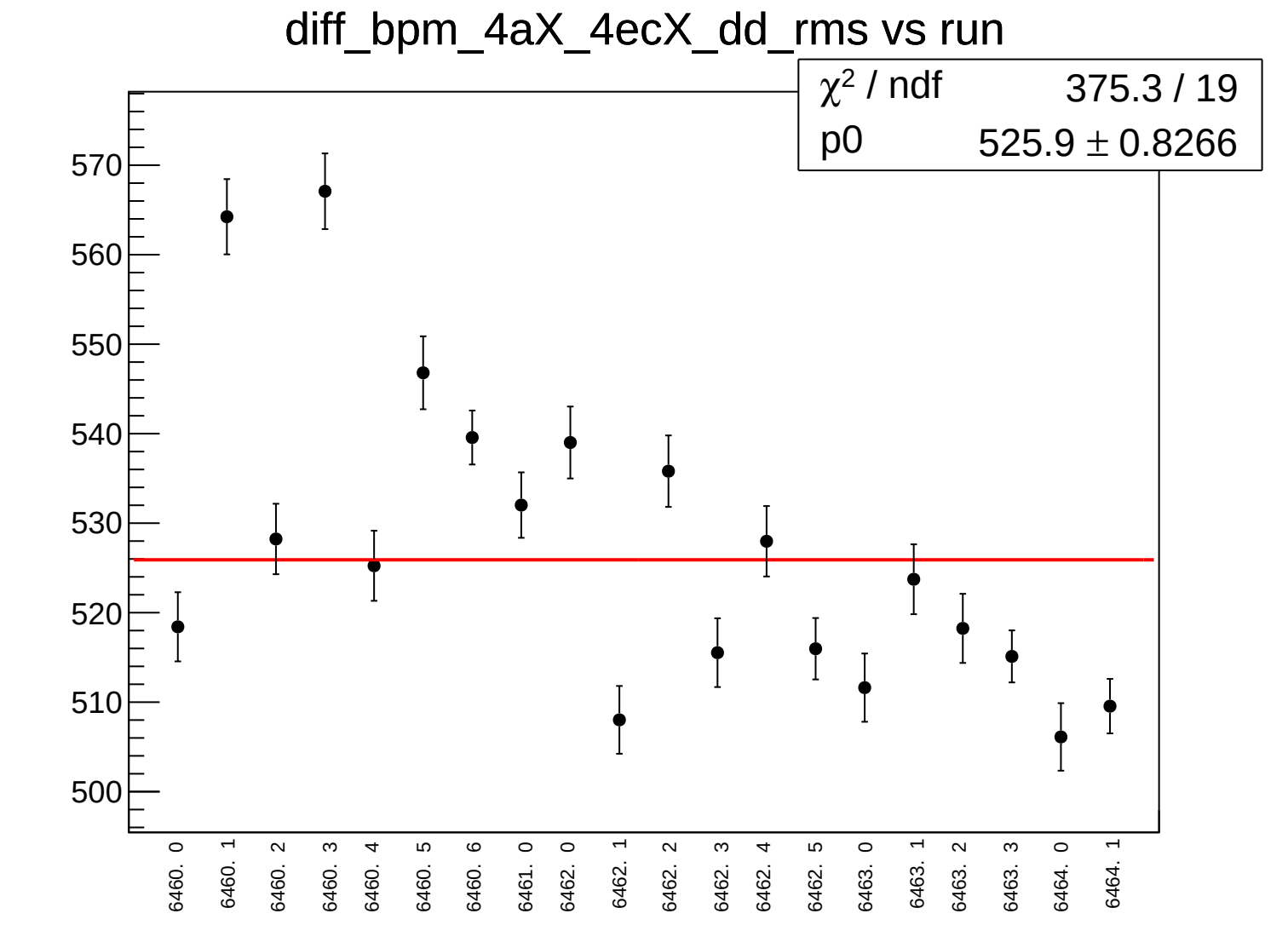

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 10.34 / 19
p0 −5.78 ± 21.09
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 81.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

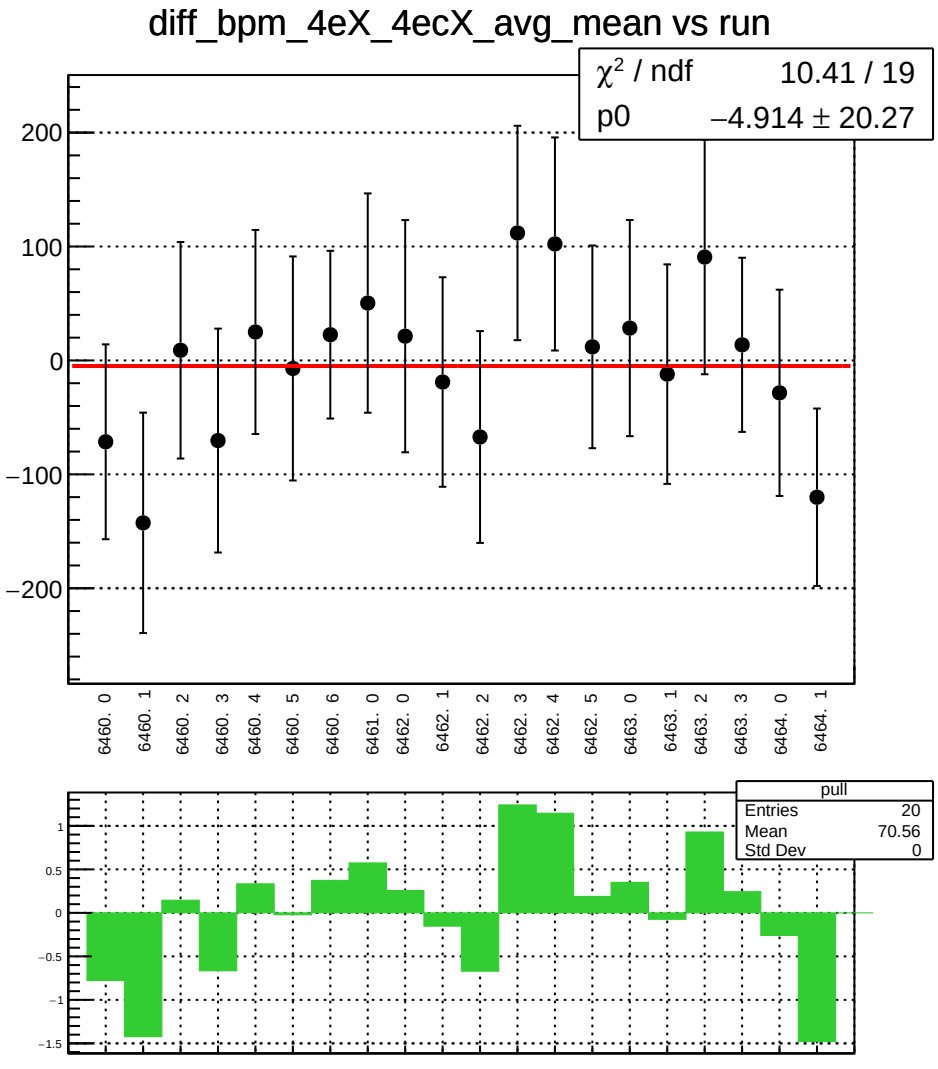

pull1D
Entries 20
Mean 0.01124
Std Dev 0.719
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

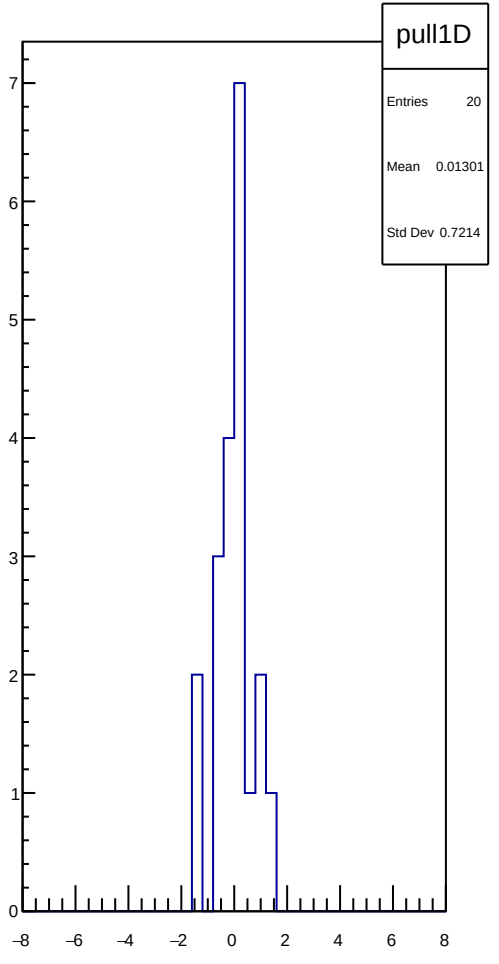

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 897.6 / 19
p0 9483 ± 14.91
10500
10000
9500
9000
8500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

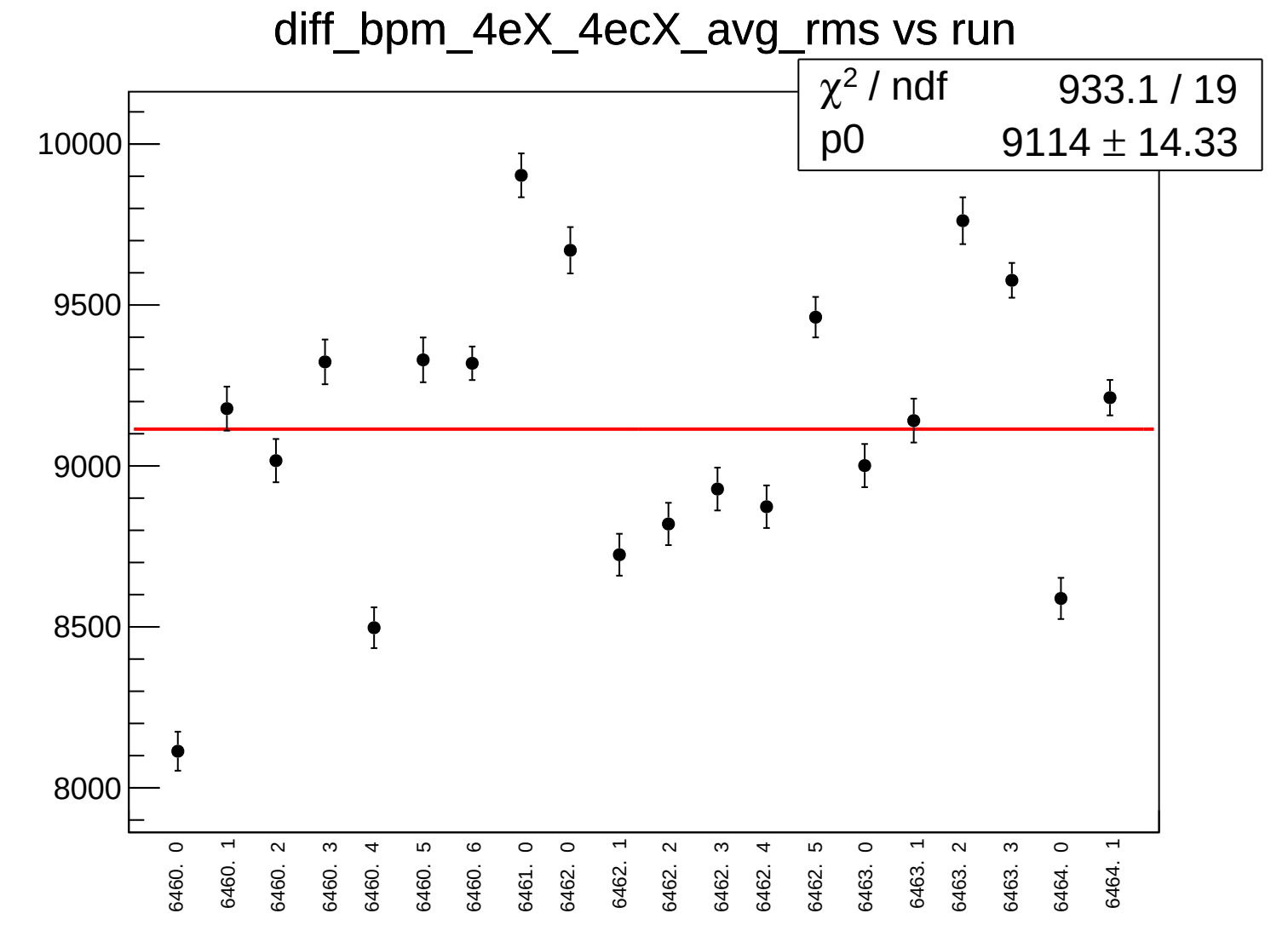

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 14.95 / 19
p0 −0.3596 ± 1.169
15
10
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −11.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

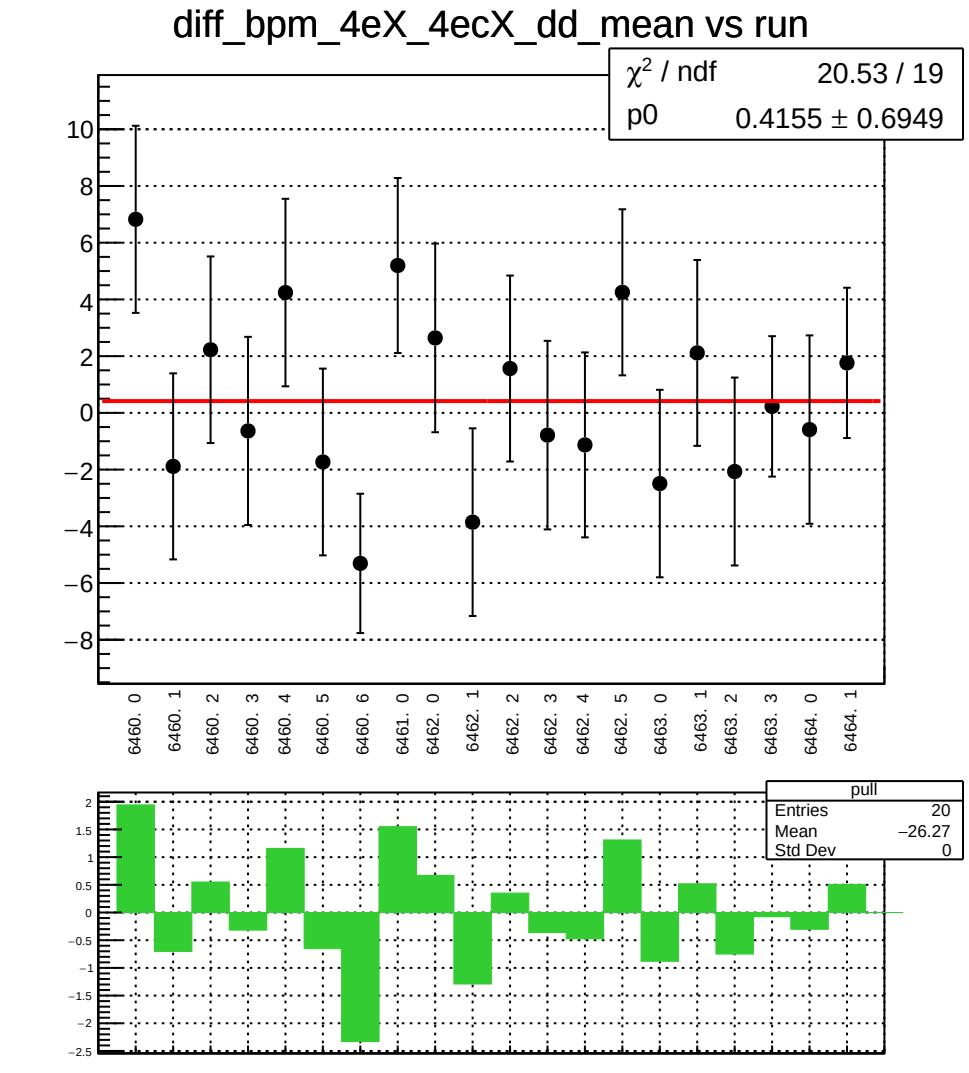

pull1D
Entries 20
Mean −0.02015
Std Dev 0.8644
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

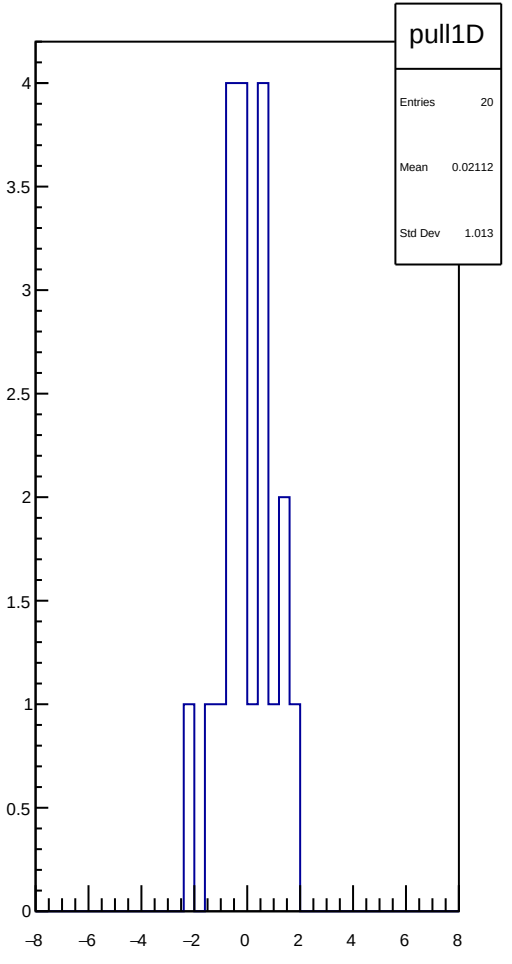

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 375.3 / 19
p0 525.9 ± 0.8266
570
560
550
540
530
520
510
500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

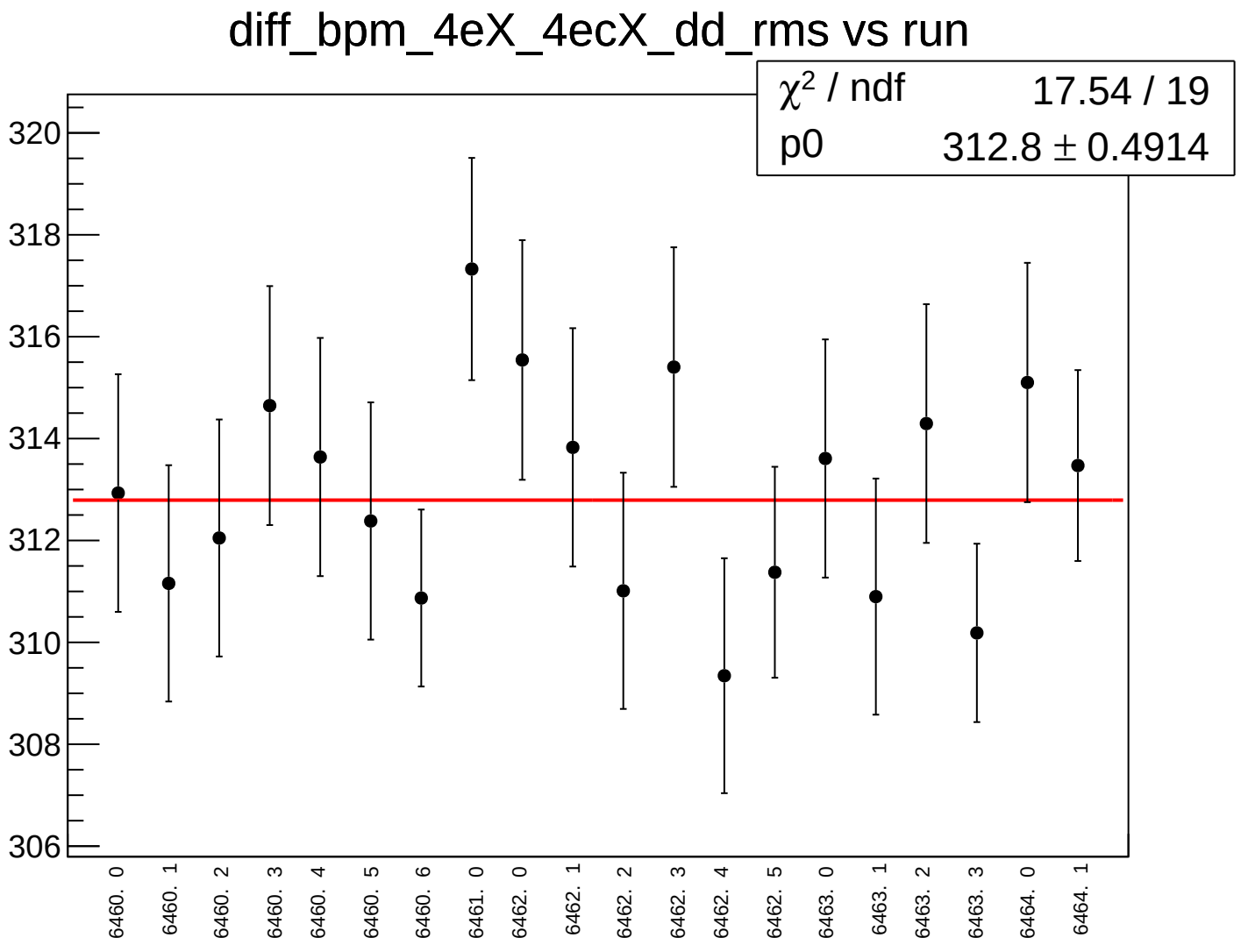

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 10.41 / 19
p0 −4.914 ± 20.27
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 70.56
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

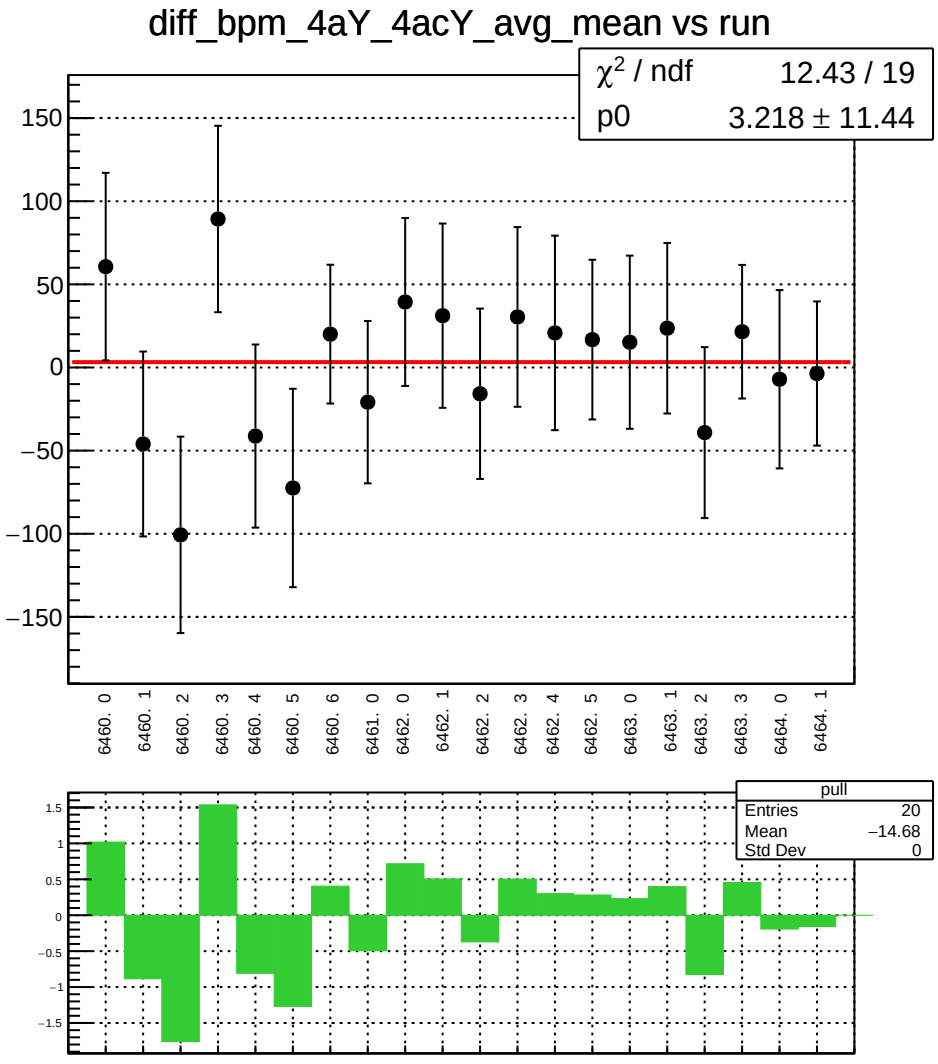

pull1D
Entries 20
Mean 0.01301
Std Dev 0.7214
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

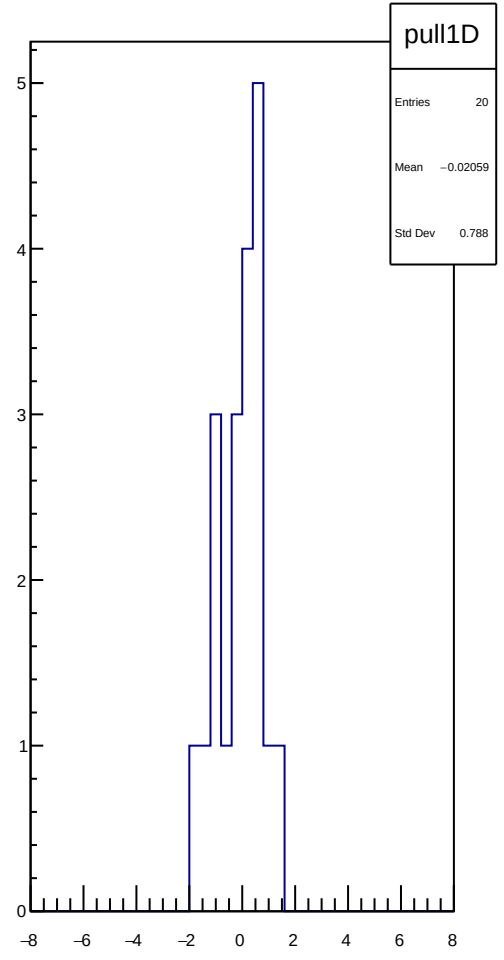

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 933.1 / 19
p0 9114 ± 14.33
10000
9500
9000
8500
8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

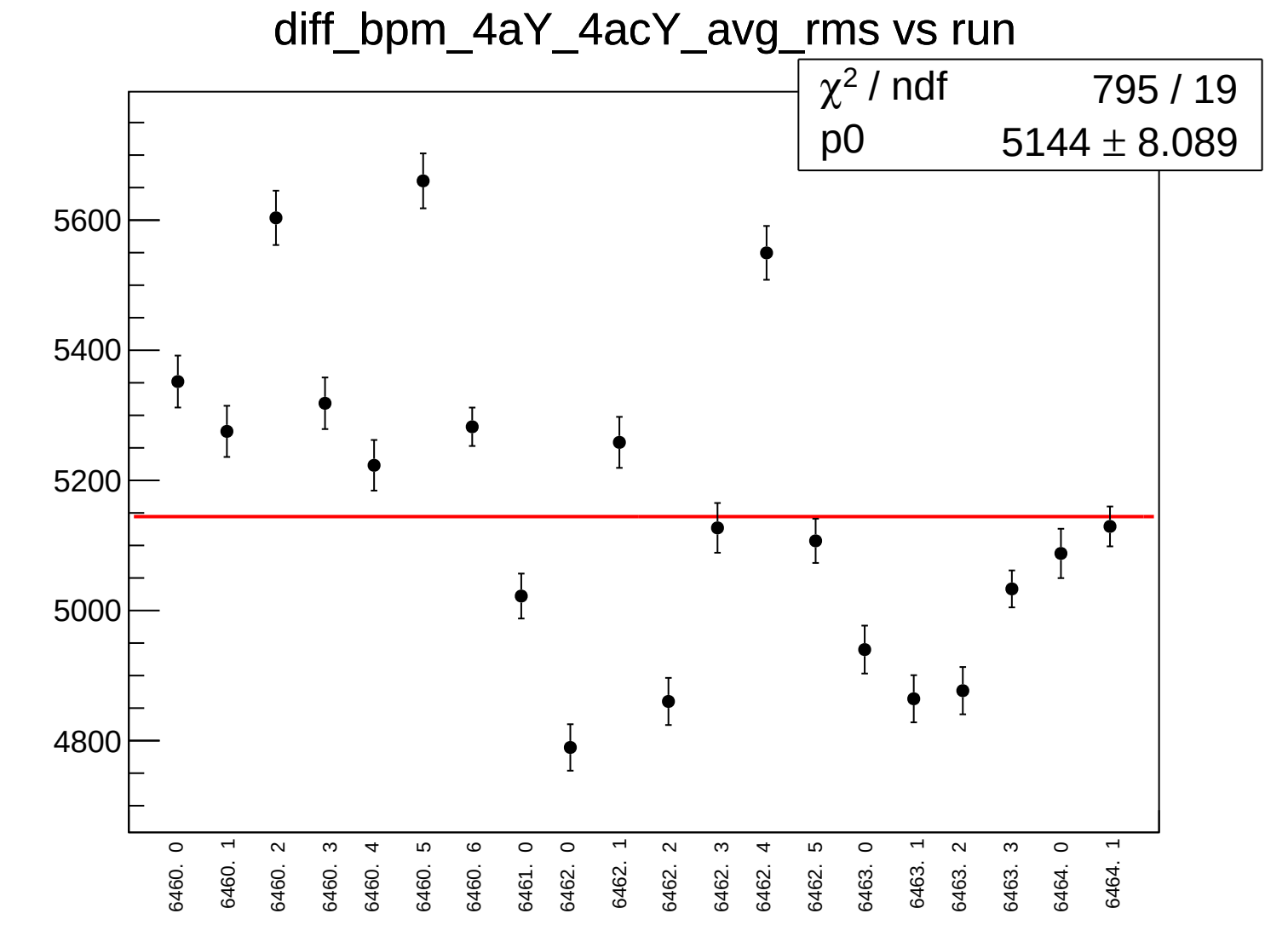

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 20.53 / 19
p0 0.4155 ± 0.6949
10
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −26.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

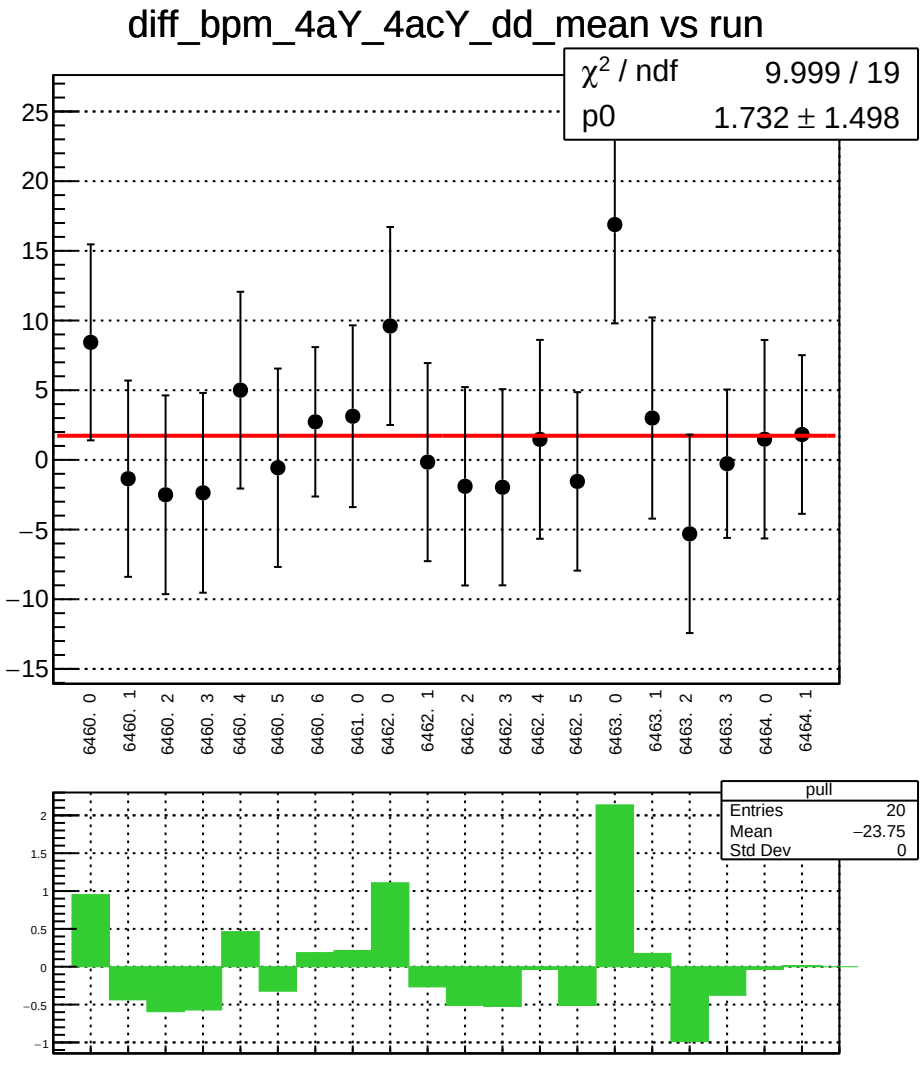

pull1D
Entries 20
Mean 0.02112
Std Dev 1.013
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

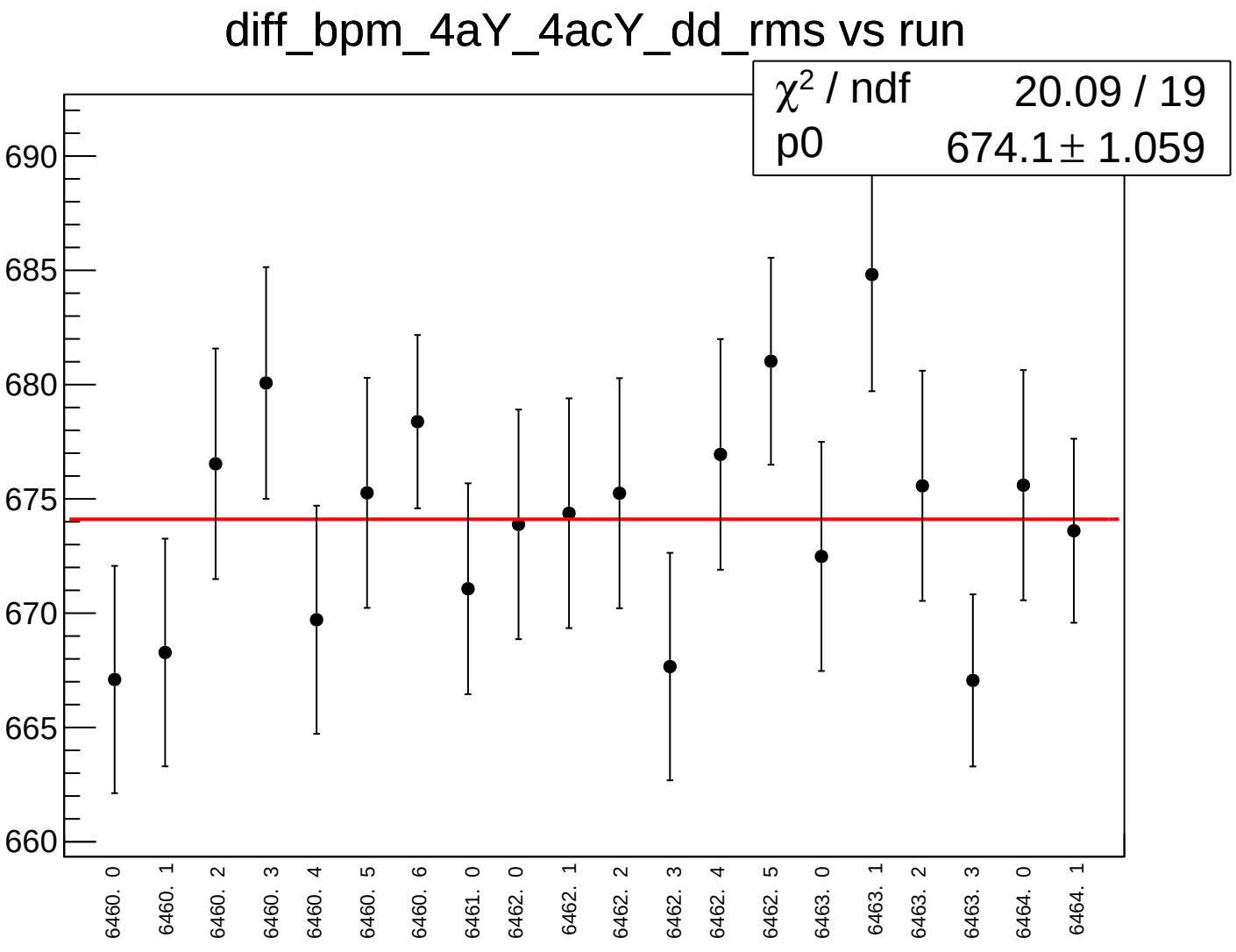

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 17.54 / 19
p0 312.8 ± 0.4914
320
318
316
314
312
310
308
306
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

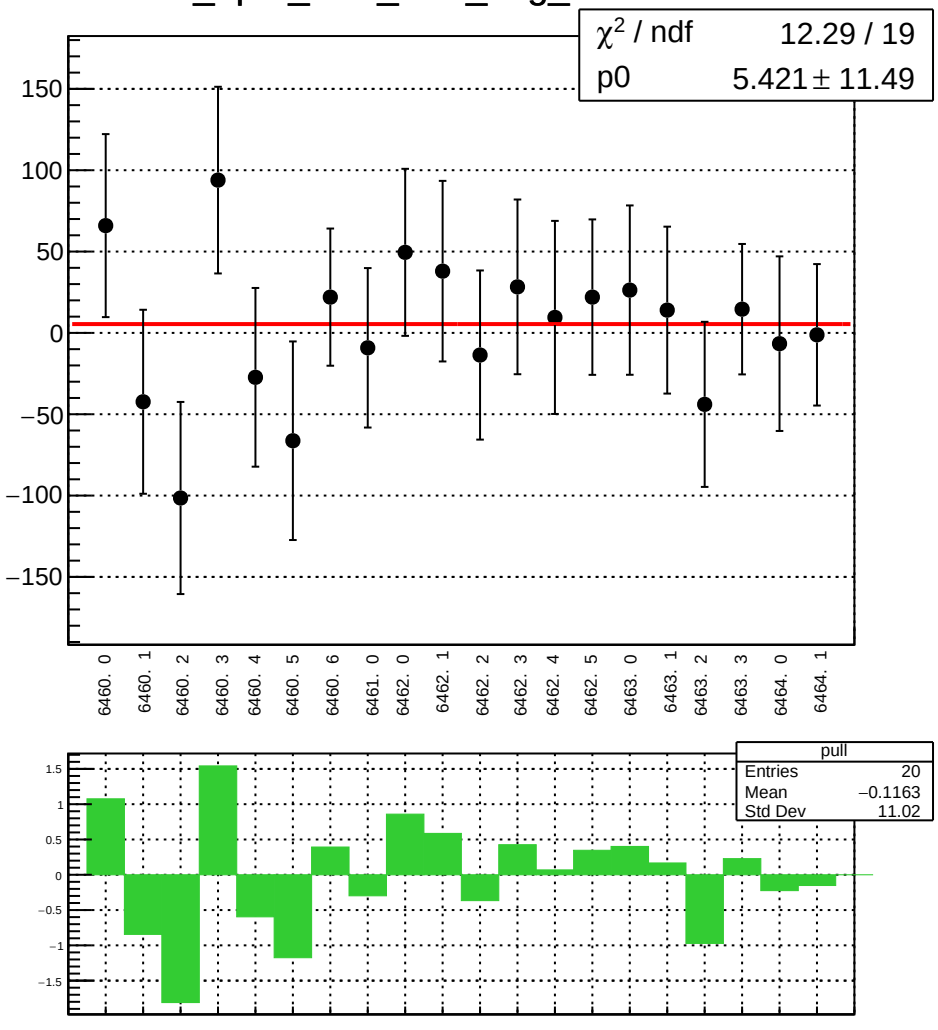

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 12.43 / 19
p0 3.218 ± 11.44
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −14.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

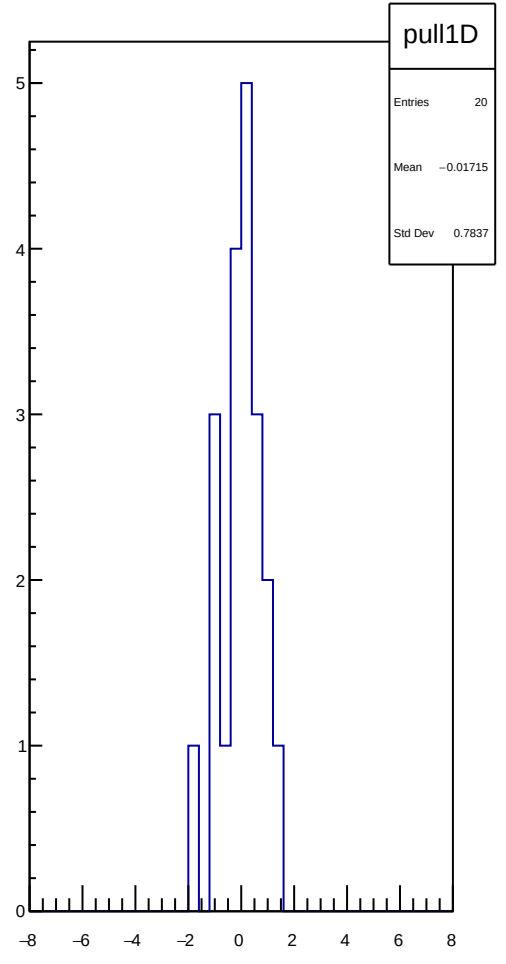

pull1D
Entries 20
Mean −0.02059
Std Dev 0.788
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

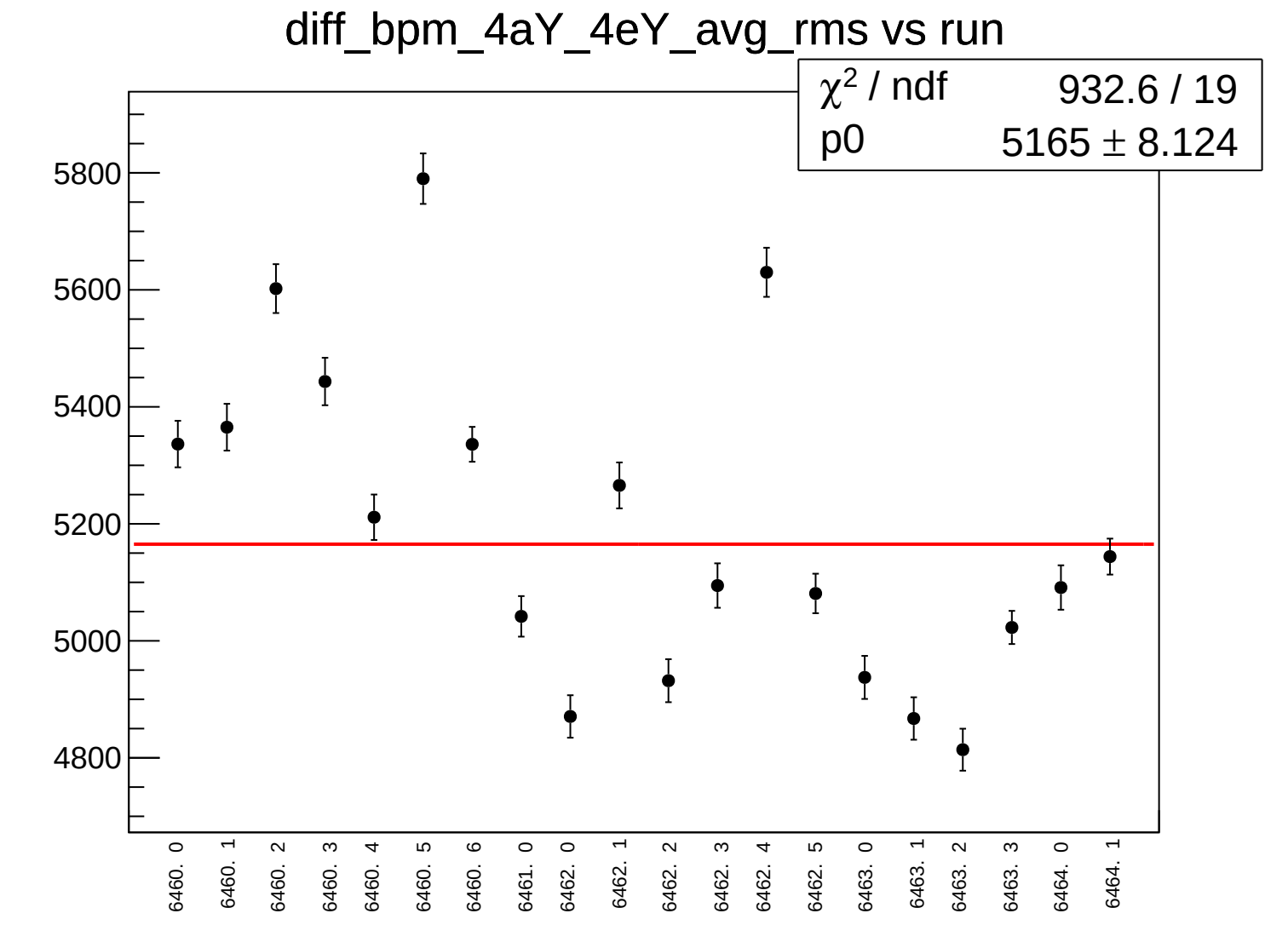

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 795 / 19
p0 5144 ± 8.089
5600
5400
5200
5000
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

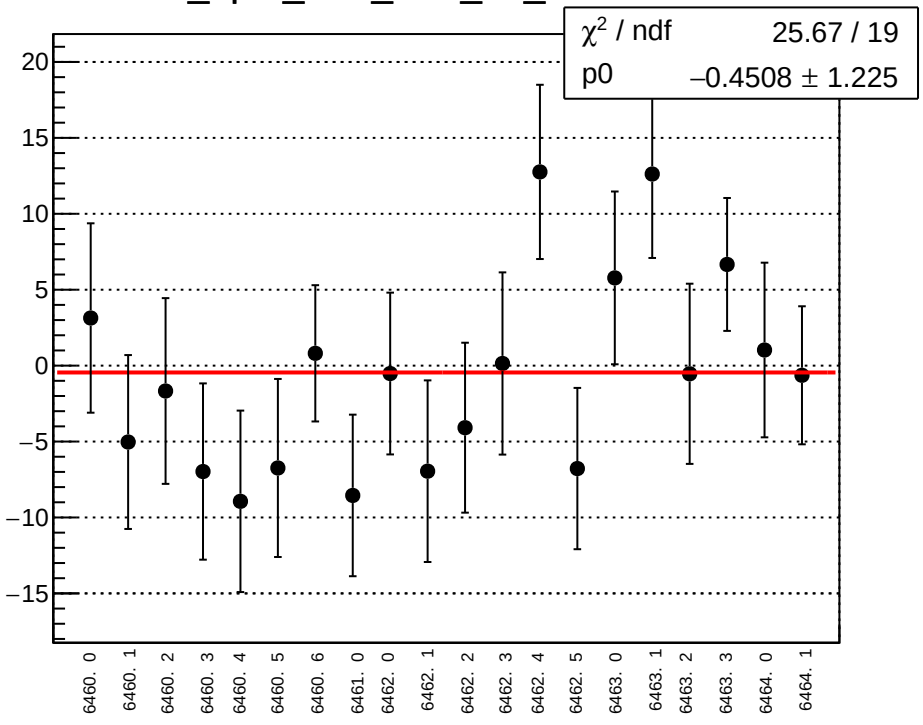

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 9.999 / 19
p0 1.732 ± 1.498
25
20
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.004028
Std Dev 0.707
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

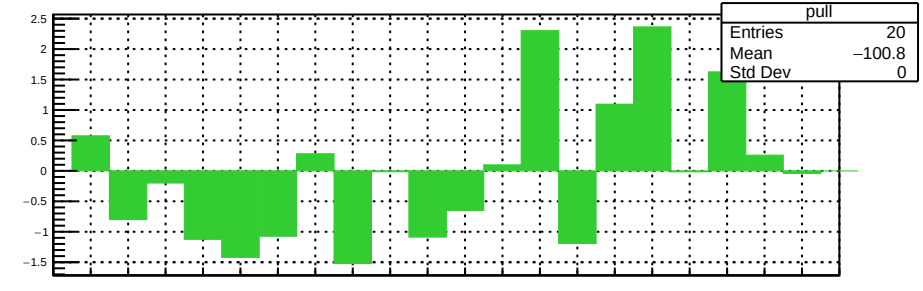

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 20.09 / 19
p0 674.1 ± 1.059
690
685
680
675
670
665
660
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

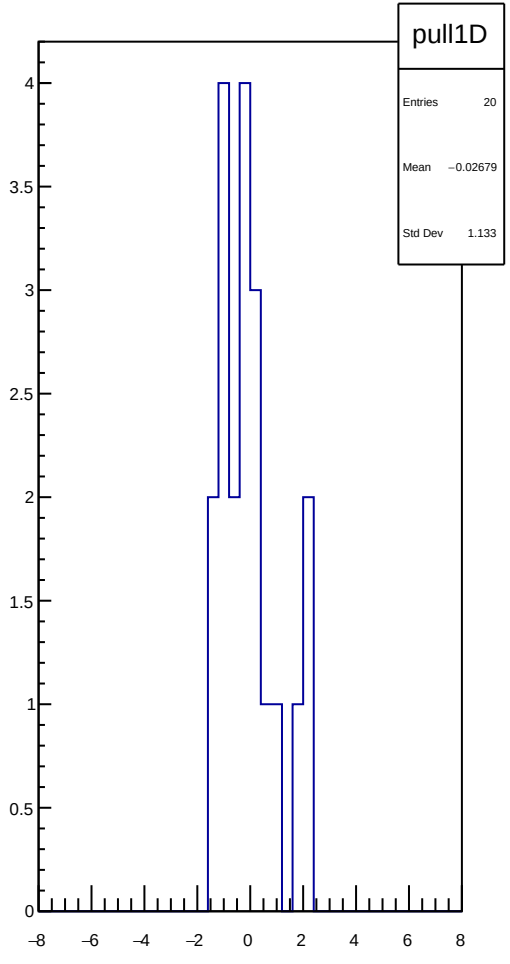

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 12.29 / 19
p0 5.421 ± 11.49
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.1163
Std Dev 11.02
1.5
1
0.5
0
−0.5
−1
−1.5

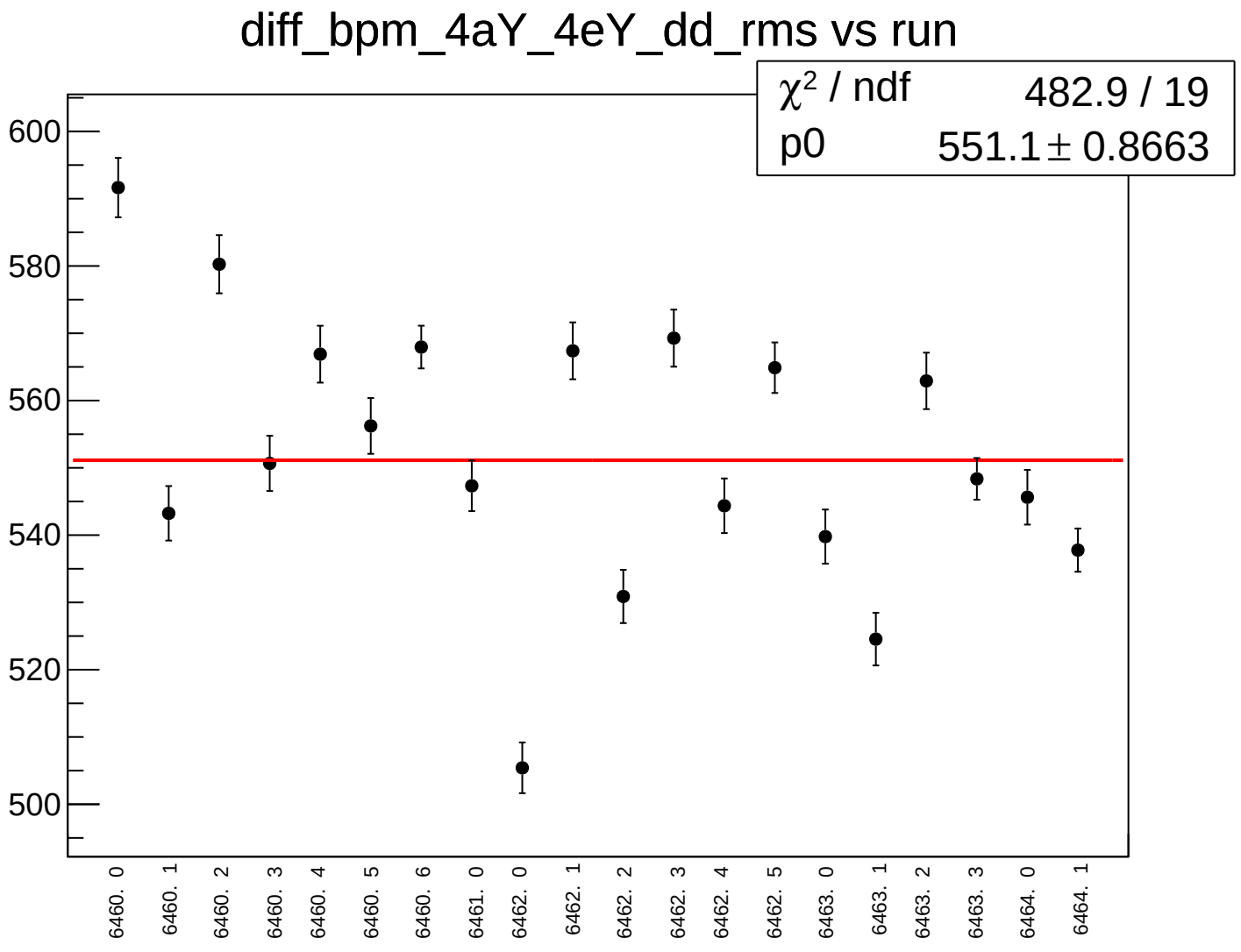

pull1D
Entries 20
Mean −0.01715
Std Dev 0.7837
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

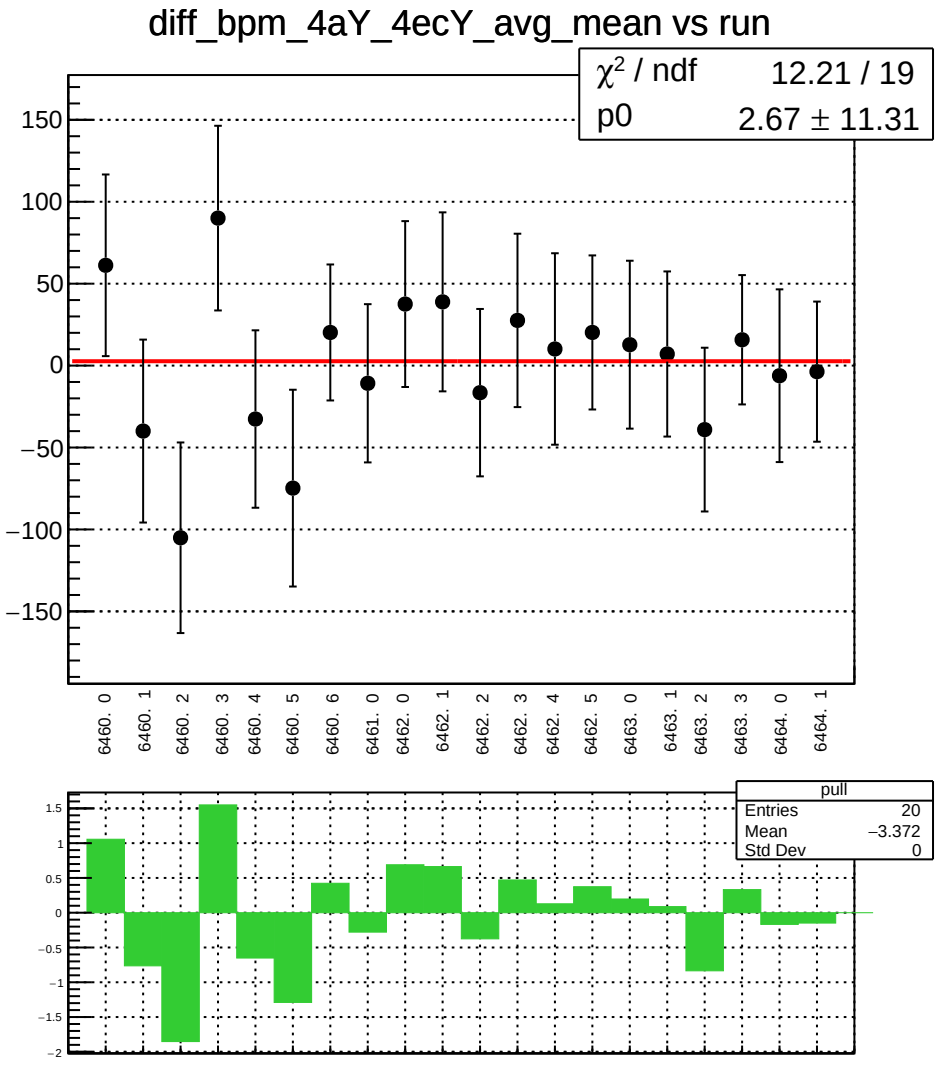

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 932.6 / 19
p0 5165 ± 8.124
5800
5600
5400
5200
5000
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

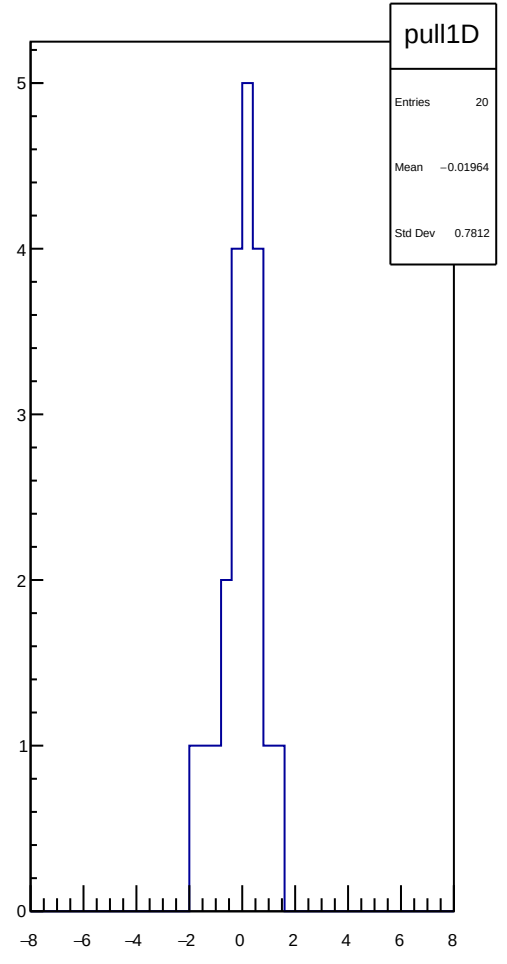

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 25.67 / 19
p0 −0.4508 ± 1.225
20
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

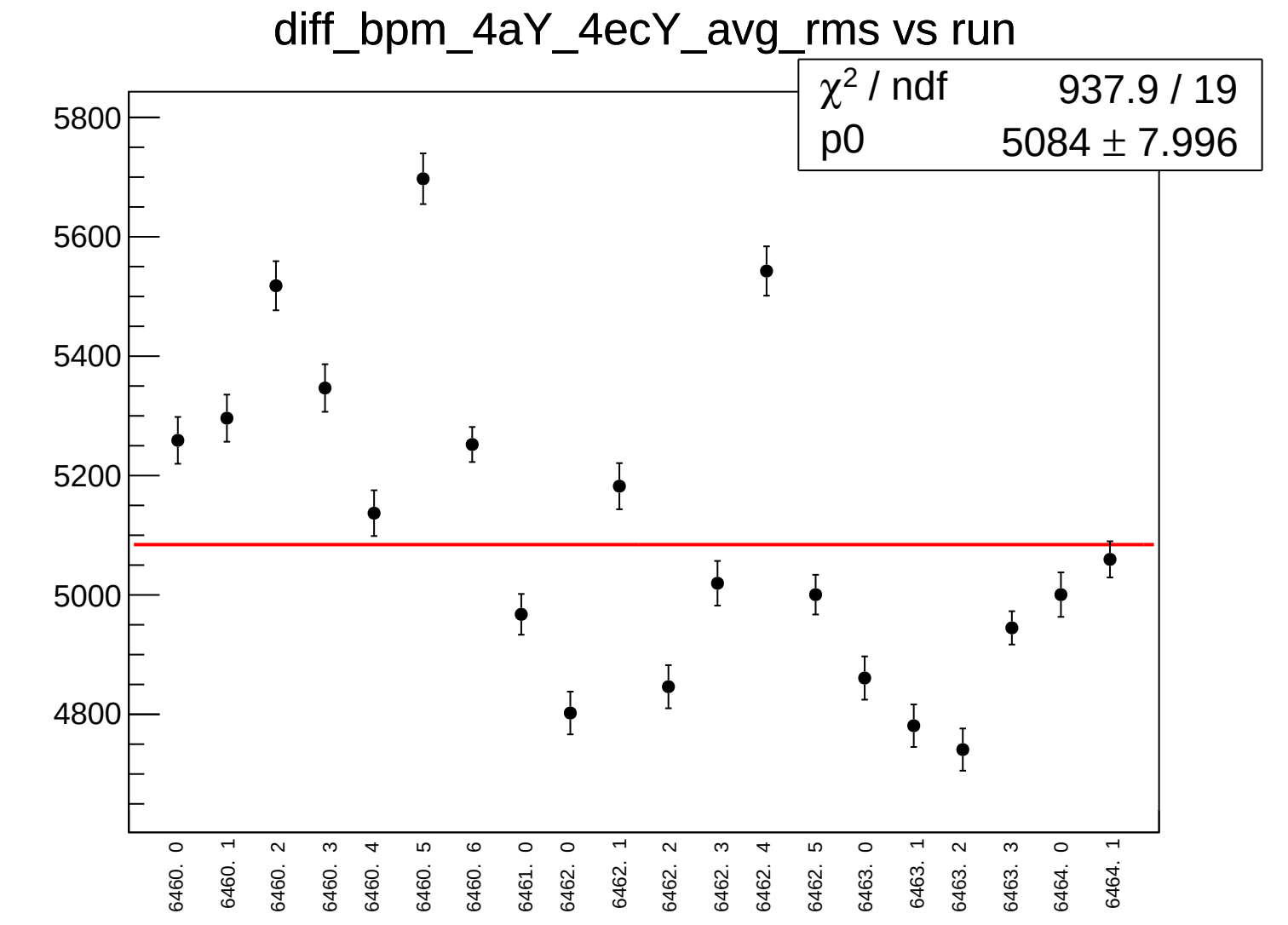

pull
Entries 20
Mean −100.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

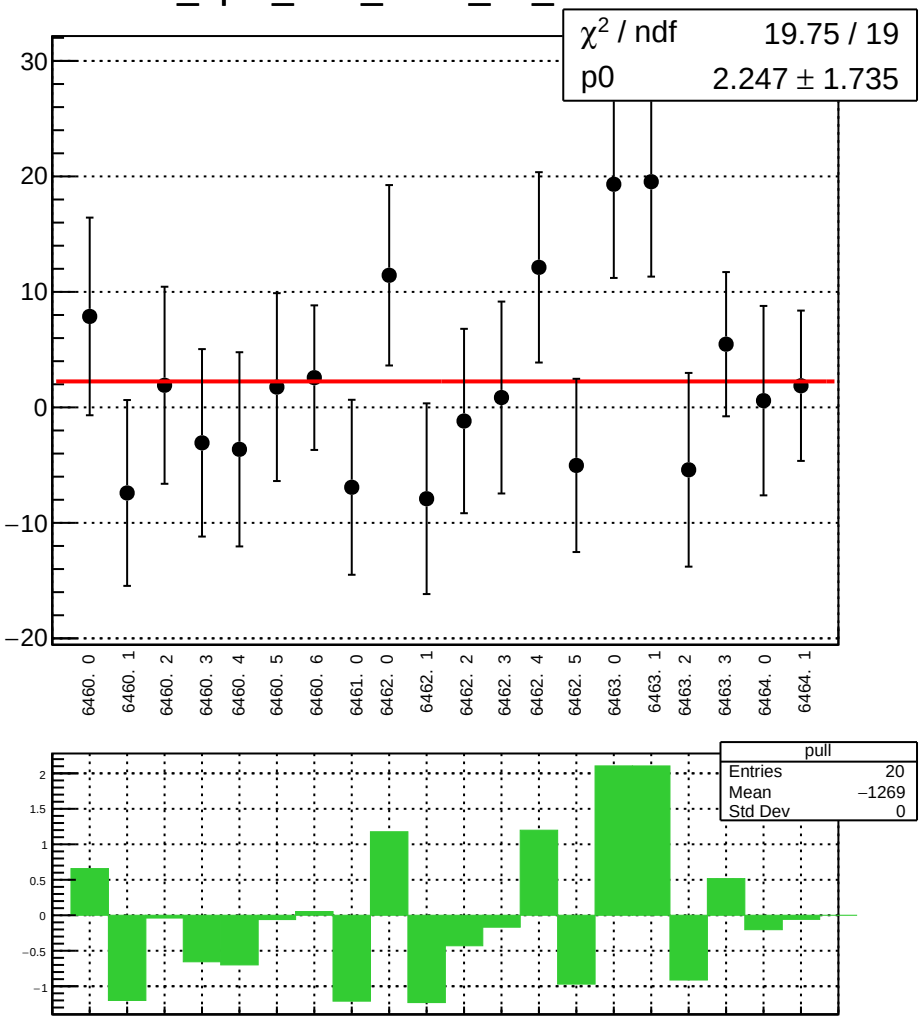

pull1D
Entries 20
Mean −0.02679
Std Dev 1.133
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

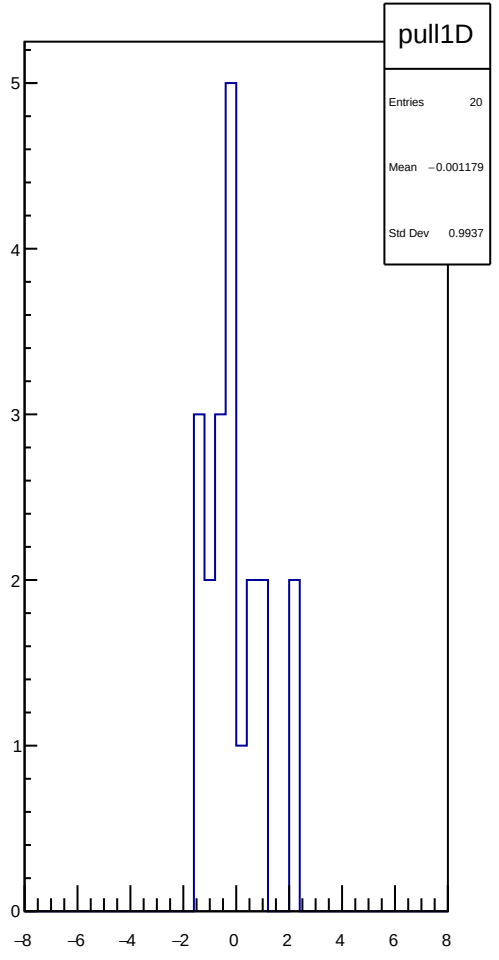

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 482.9 / 19
p0 551.1 ± 0.8663
600
580
560
540
520
500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

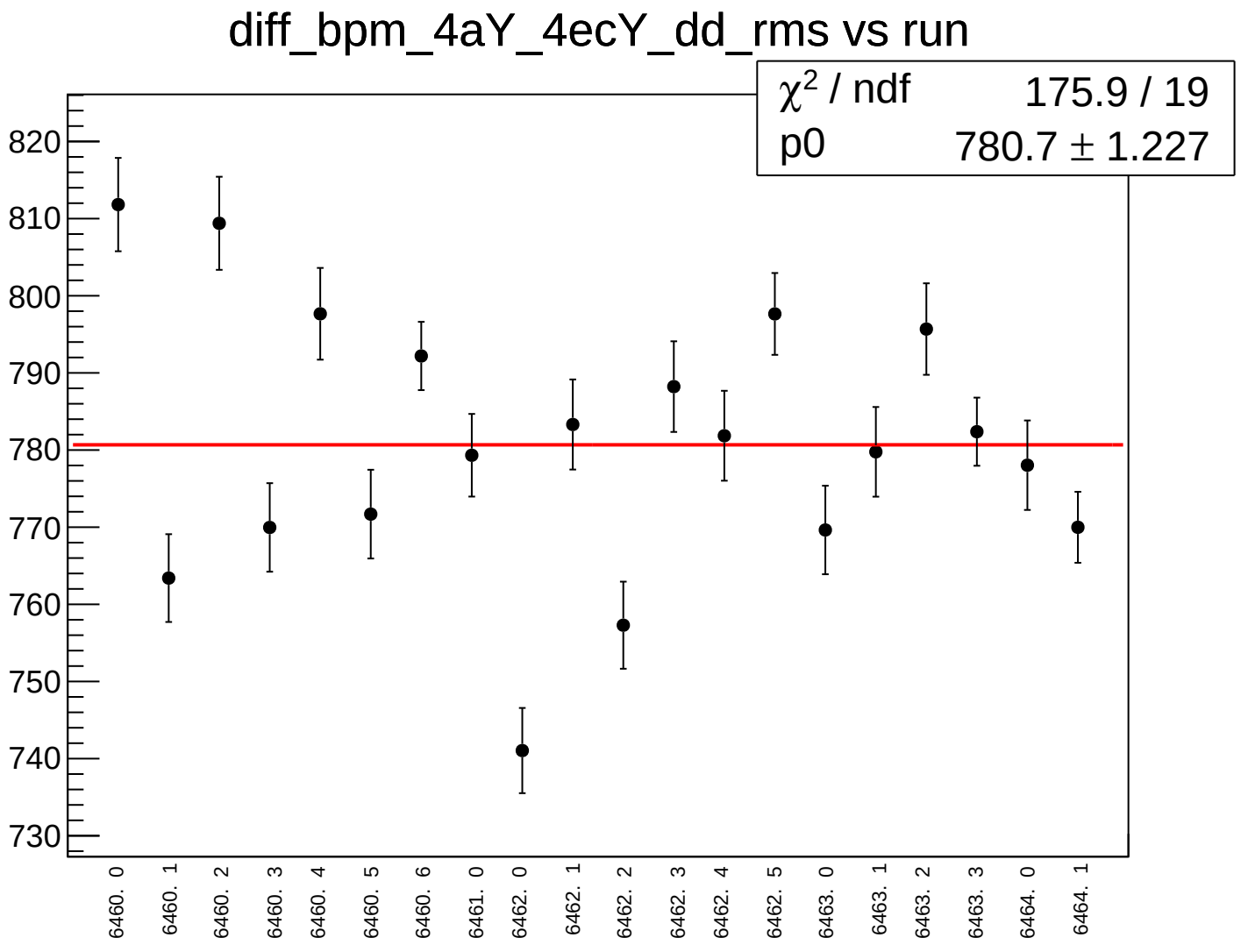

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 12.21 / 19
p0 2.67 ± 11.31
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −3.372
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

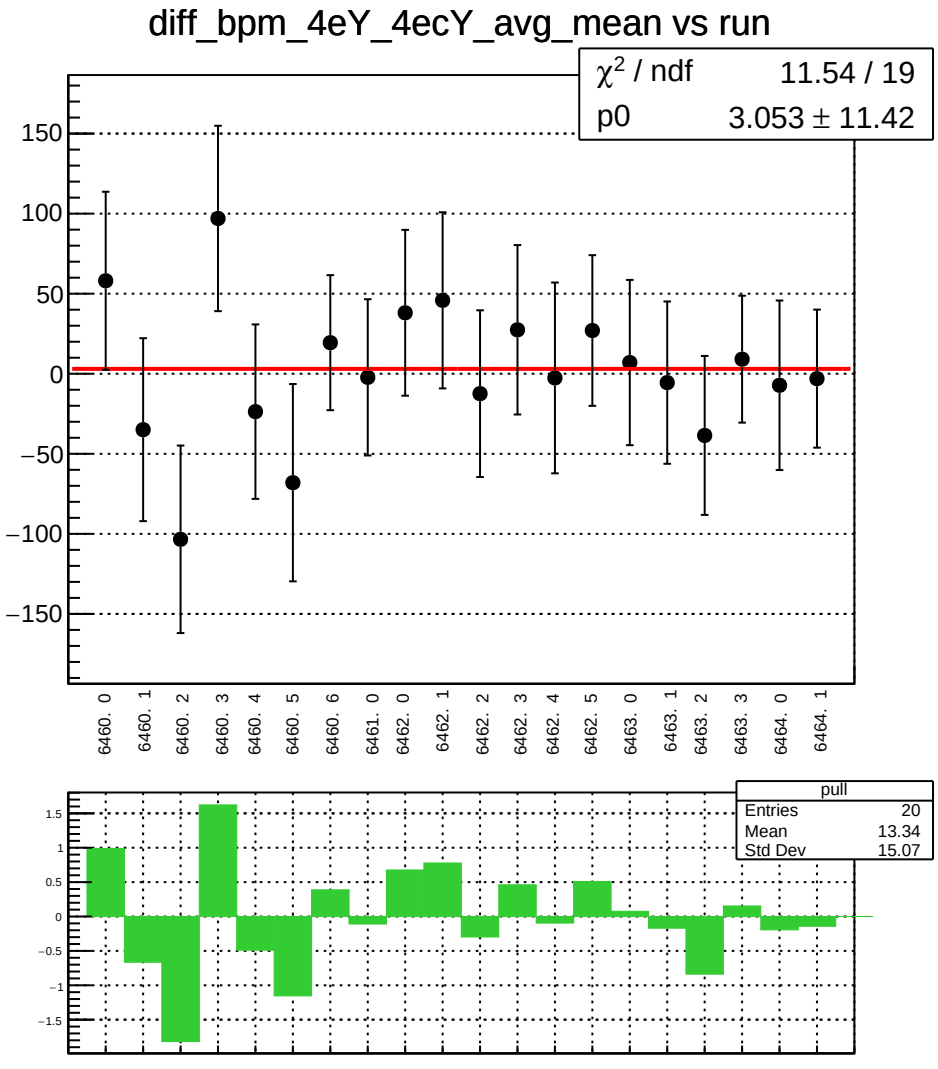

pull1D
Entries 20
Mean −0.01964
Std Dev 0.7812
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

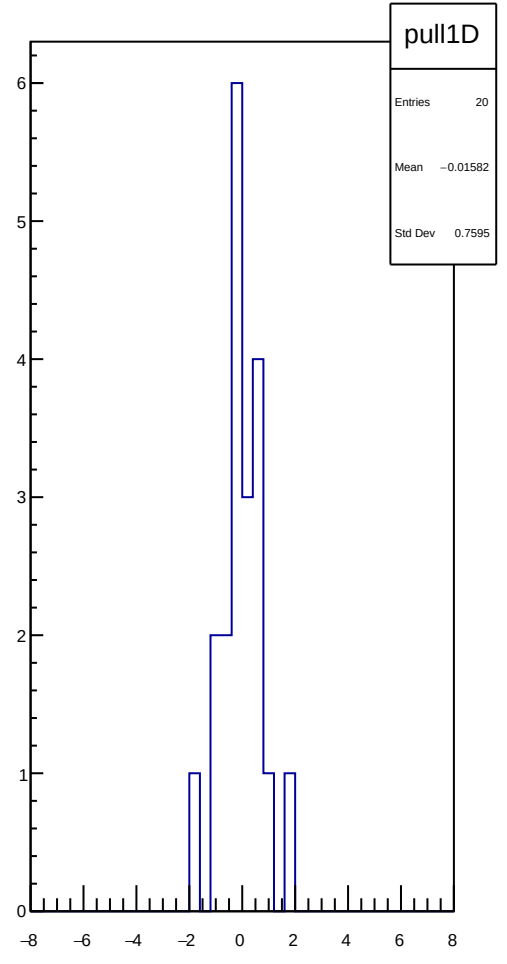

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 937.9 / 19
p0 5084 ± 7.996
5800
5600
5400
5200
5000
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

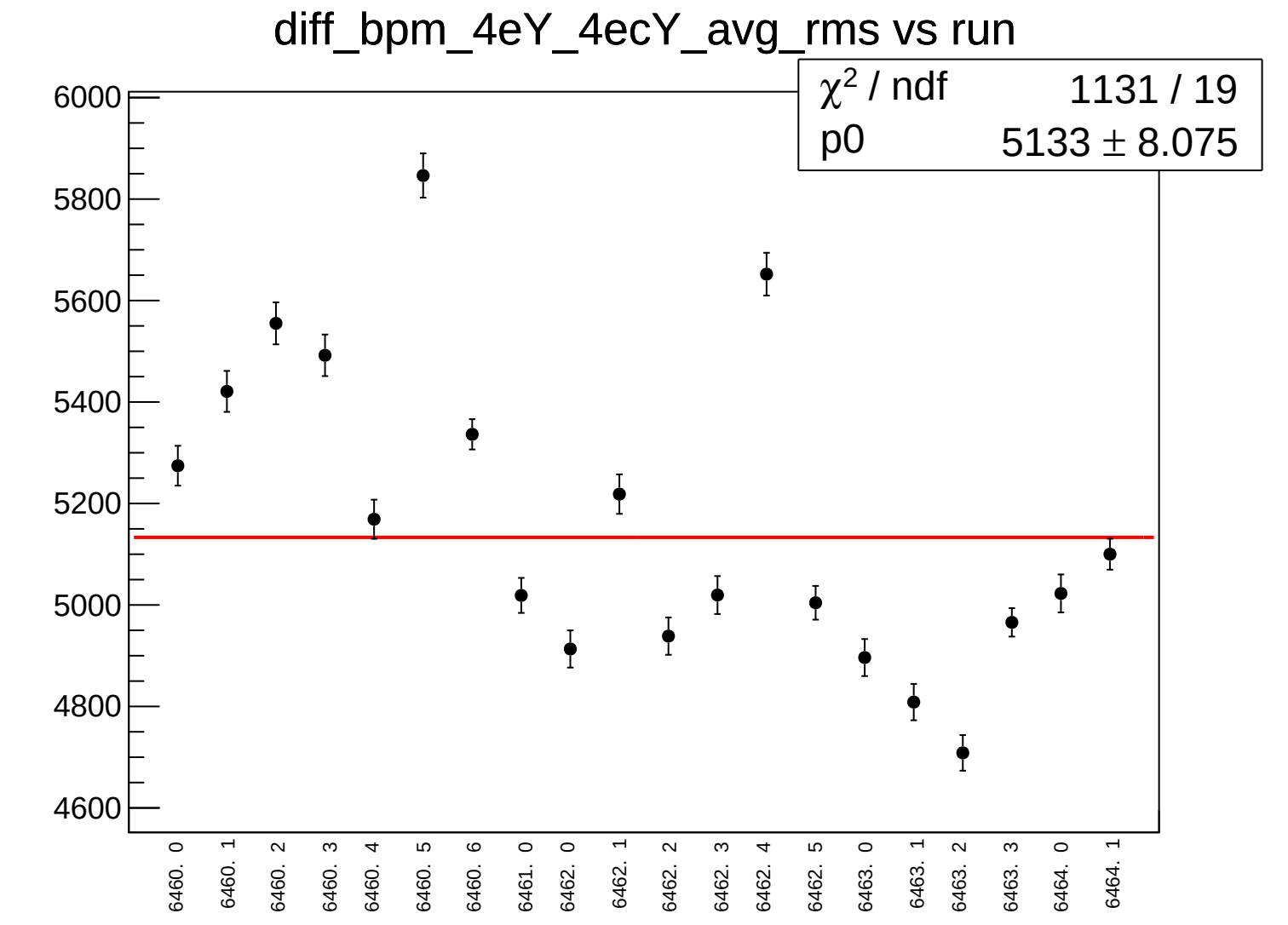

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 19.75 / 19
p0 2.247 ± 1.735
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1269
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

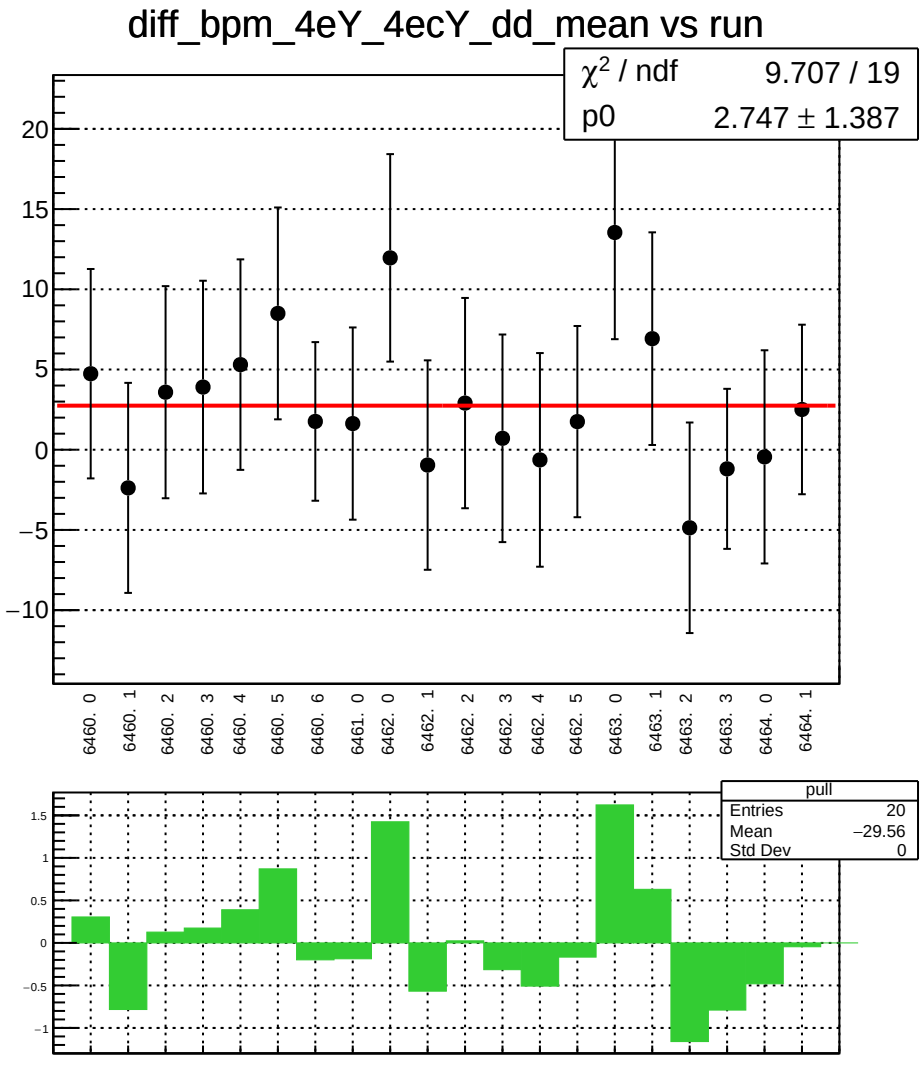

pull1D
Entries 20
Mean −0.001179
Std Dev 0.9937
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

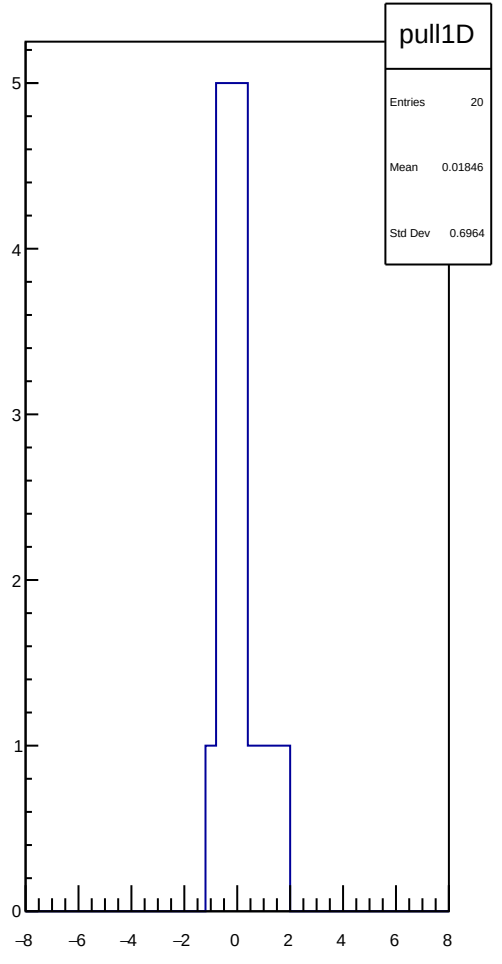

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 175.9 / 19
p0 780.7 ± 1.227
820
810
800
790
780
770
760
750
740
730
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

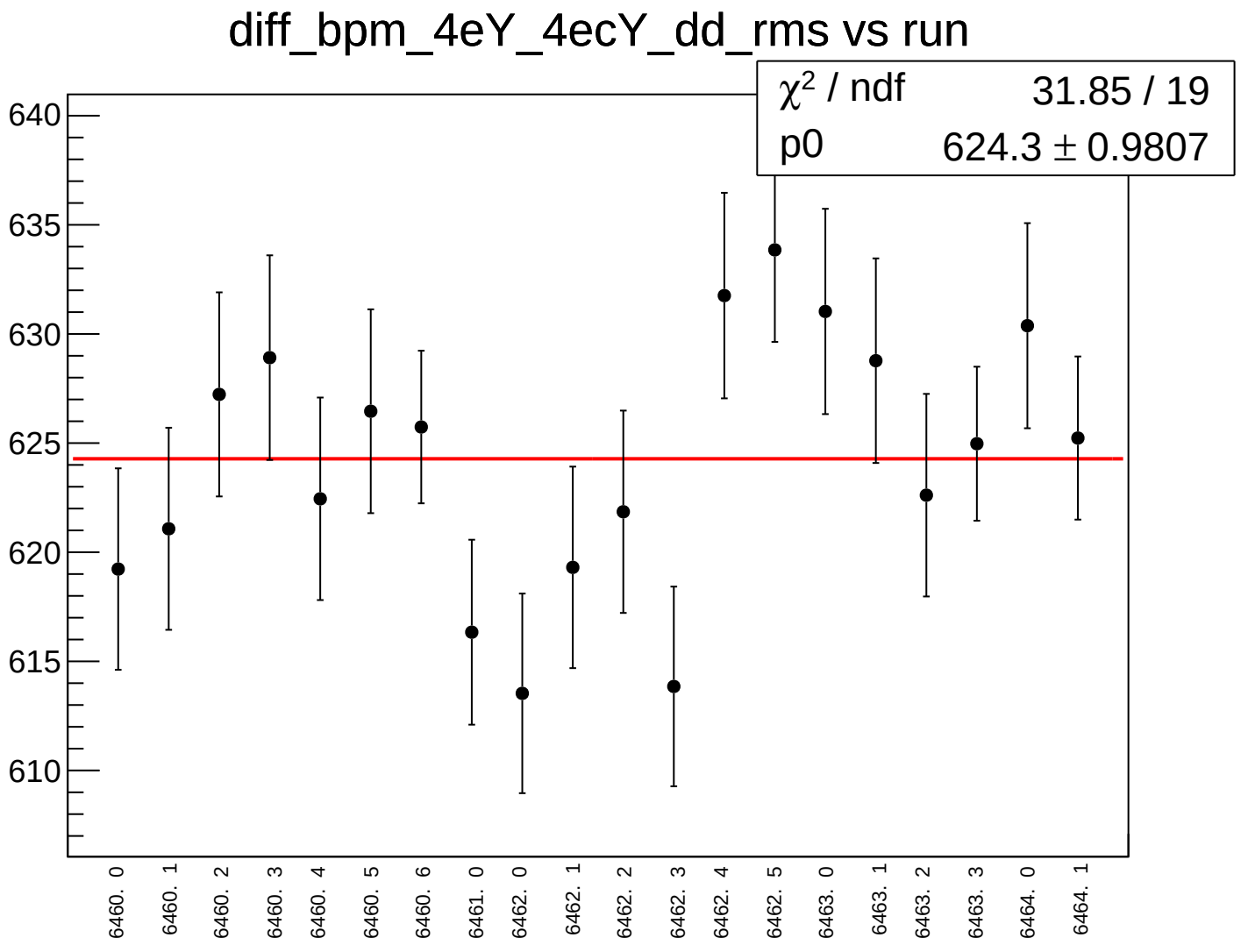

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 11.54 / 19
p0 3.053 ± 11.42
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.34
Std Dev 15.07
1.5
1
0.5
0
−0.5
−1
−1.5

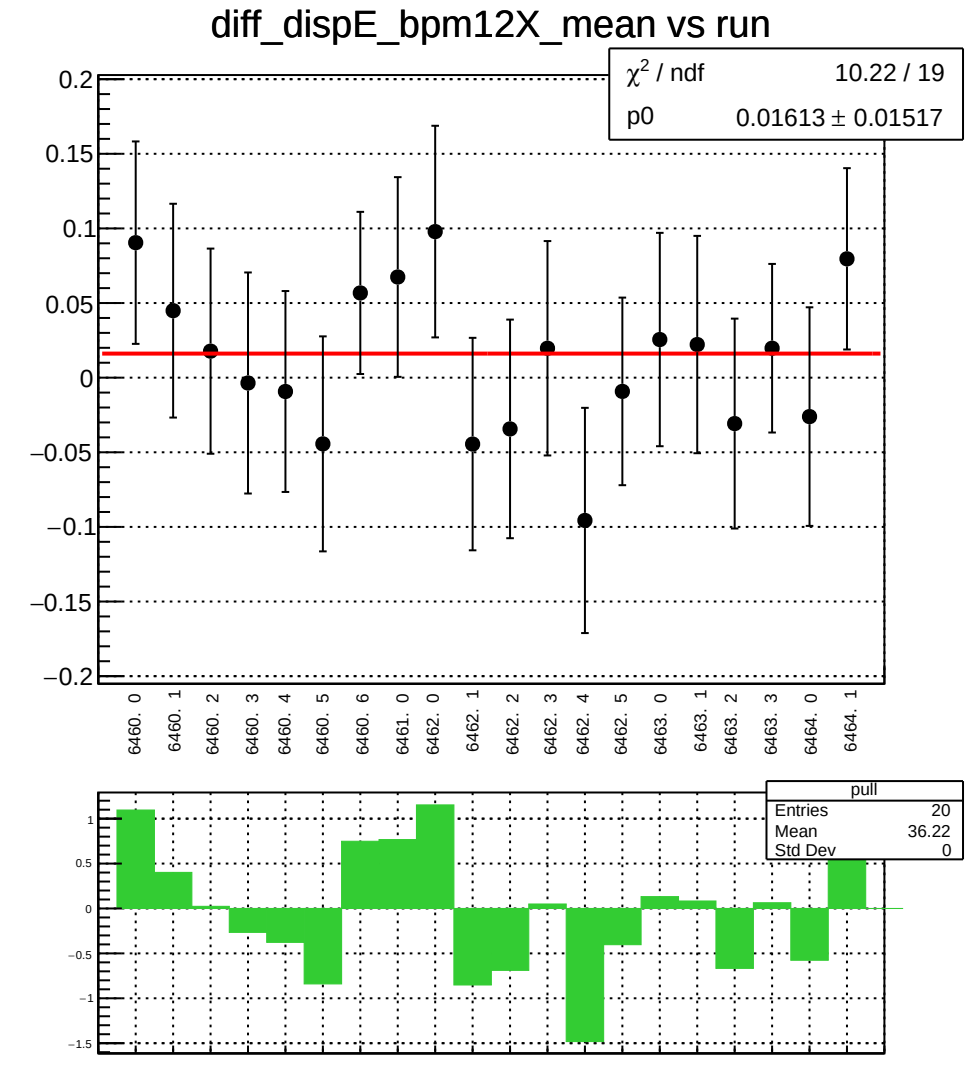

pull1D
Entries 20
Mean −0.01582
Std Dev 0.7595
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

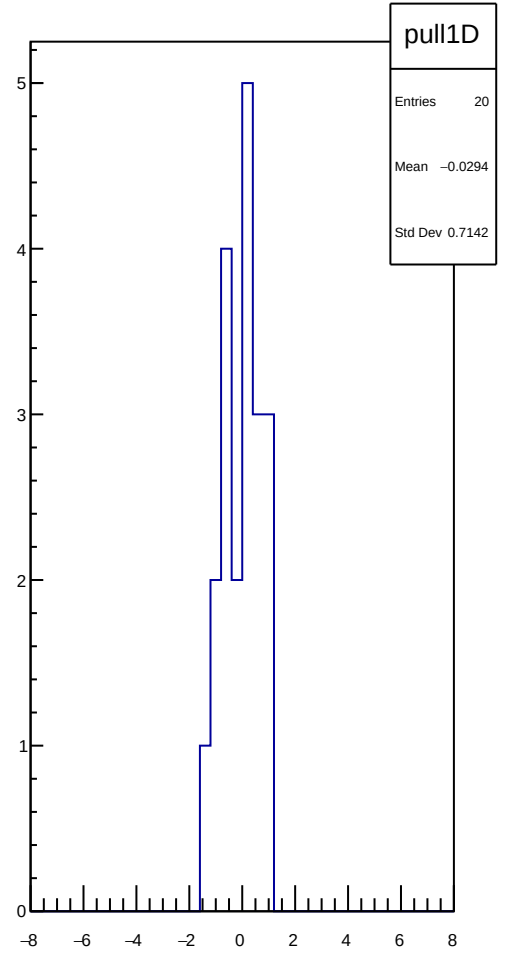

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1131 / 19
p0 5133 ± 8.075
6000
5800
5600
5400
5200
5000
4800
4600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

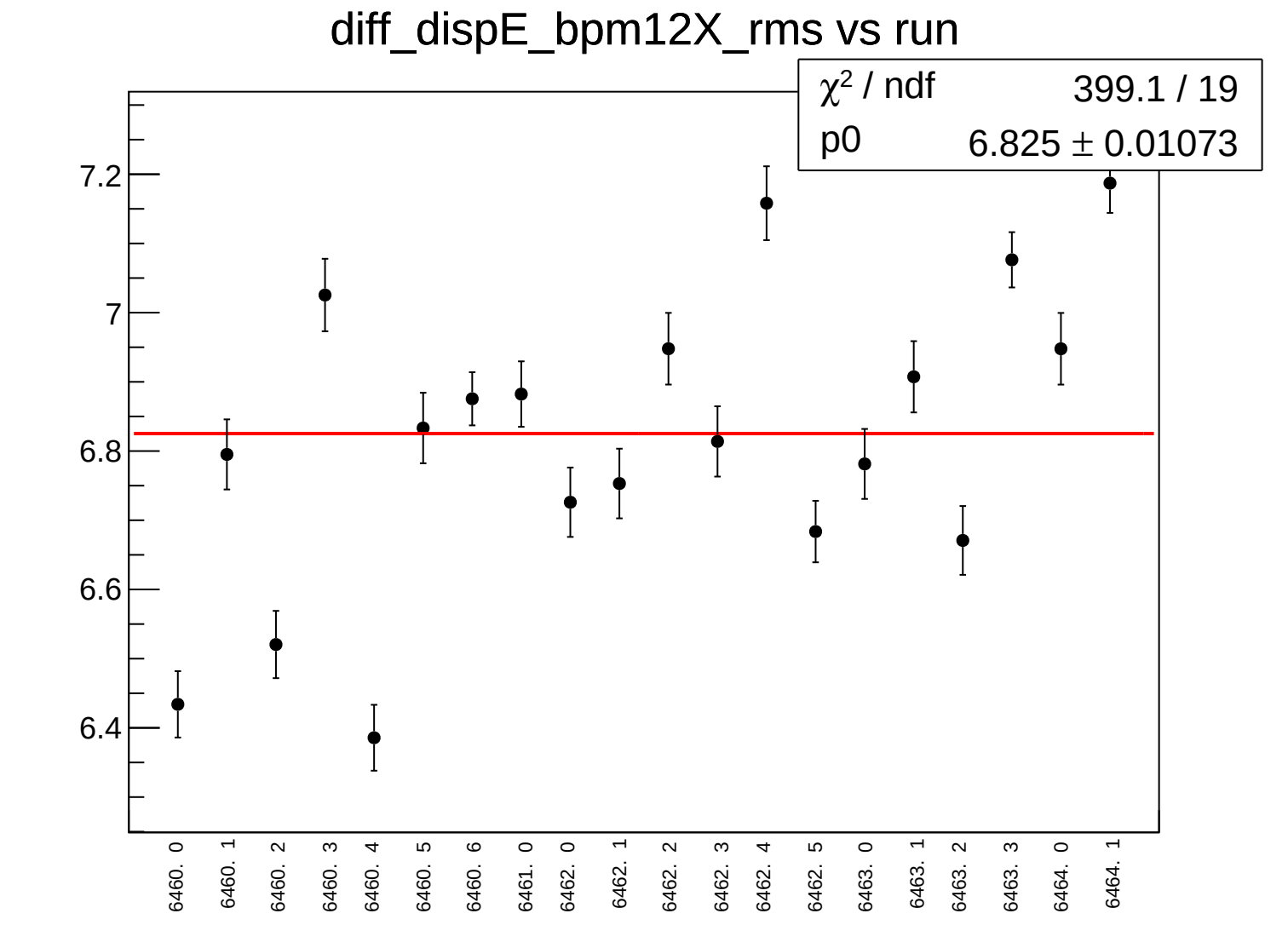

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 9.707 / 19
p0 2.747 ± 1.387
20
15
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1

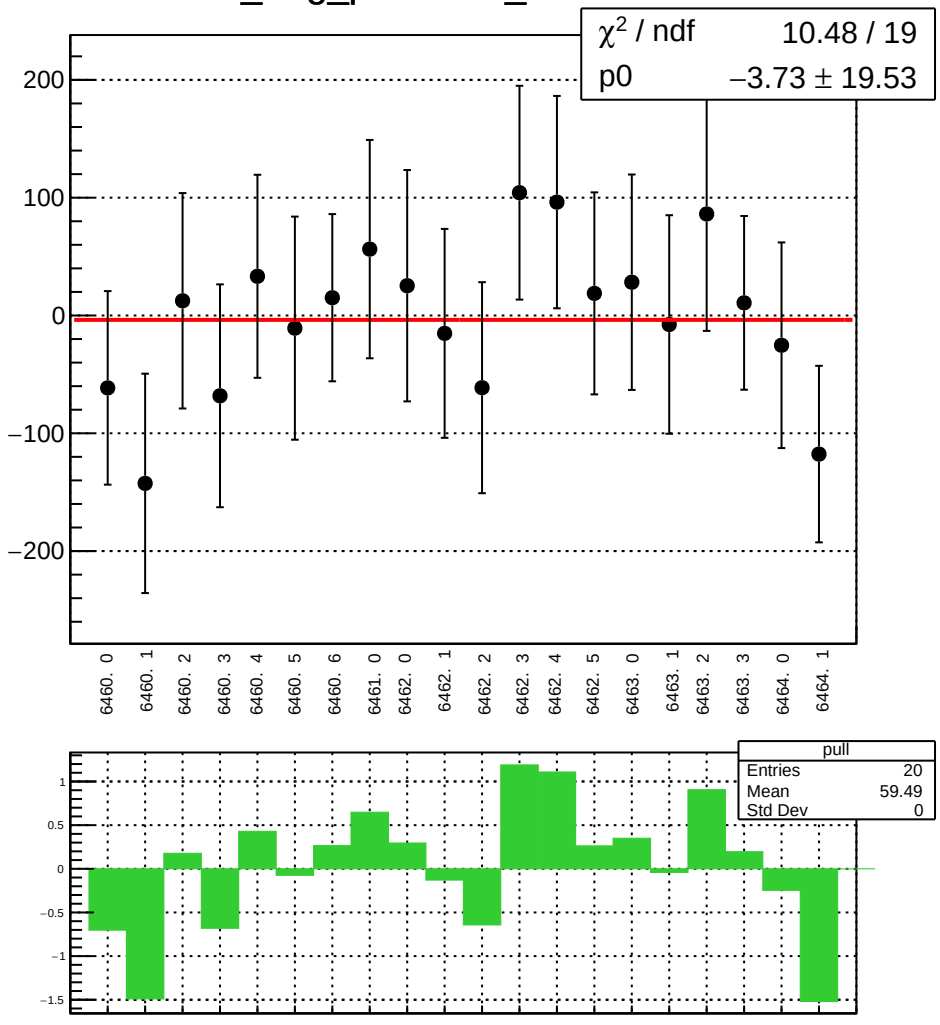

pull1D
Entries 20
Mean 0.01846
Std Dev 0.6964
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

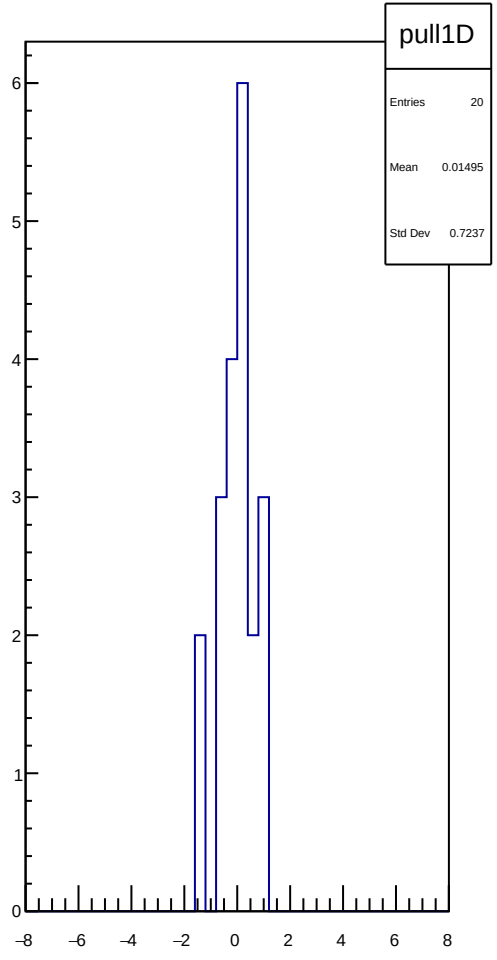

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 31.85 / 19
p0 624.3 ± 0.9807
640
635
630
625
620
615
610
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

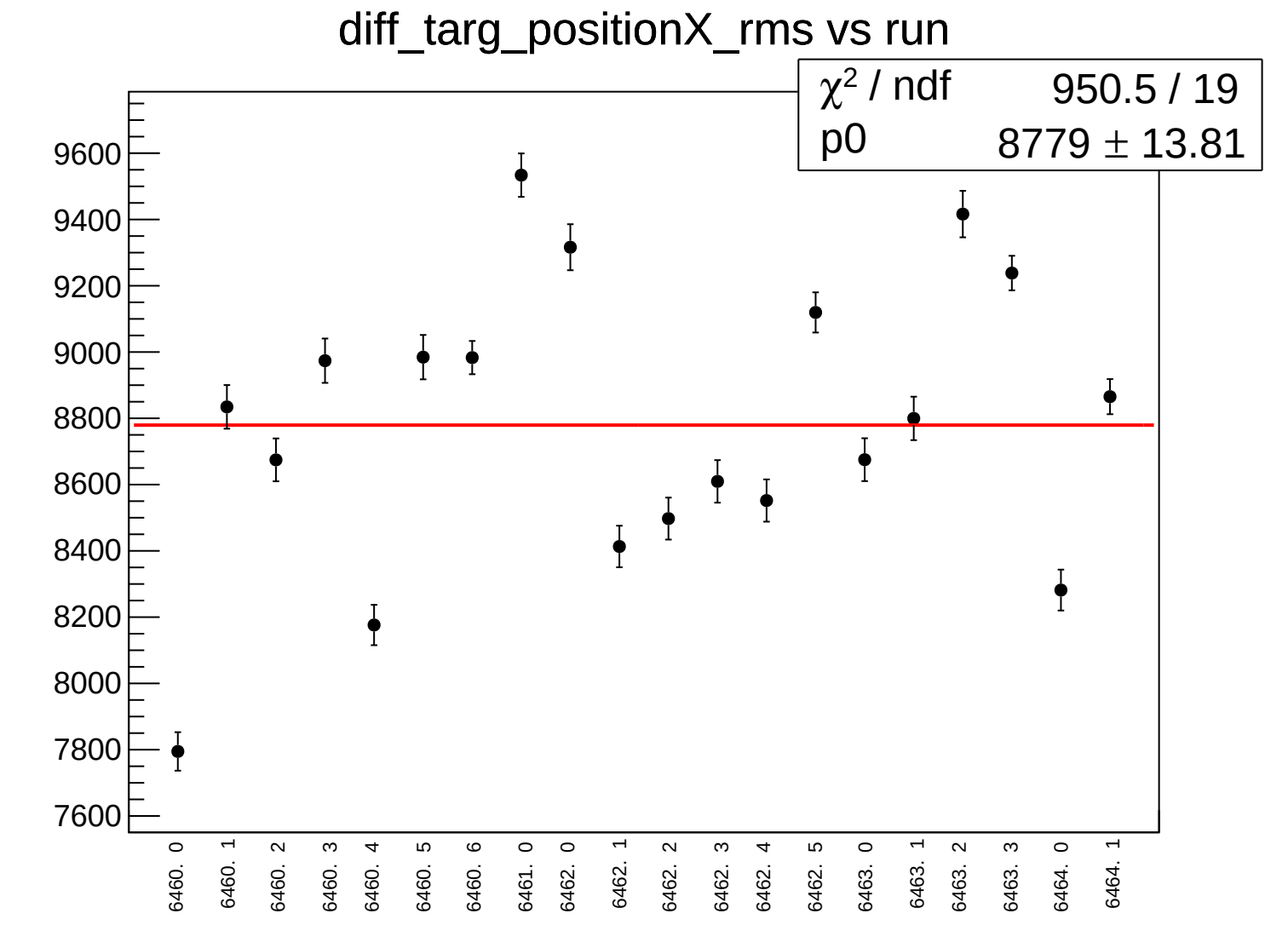

diff_dispE_bpm12X_mean vs run
χ² / ndf 10.22 / 19
p0 0.01613 ± 0.01517
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.22
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

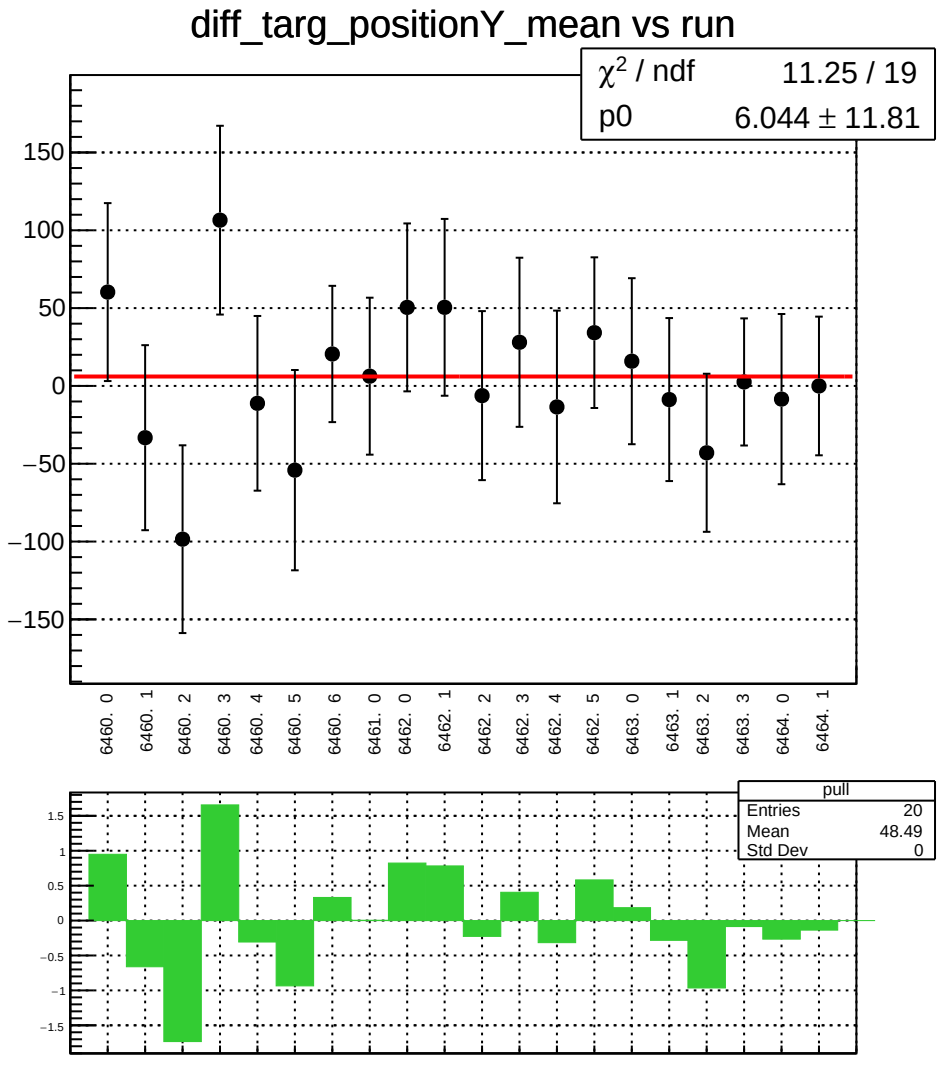

pull1D
Entries 20
Mean −0.0294
Std Dev 0.7142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

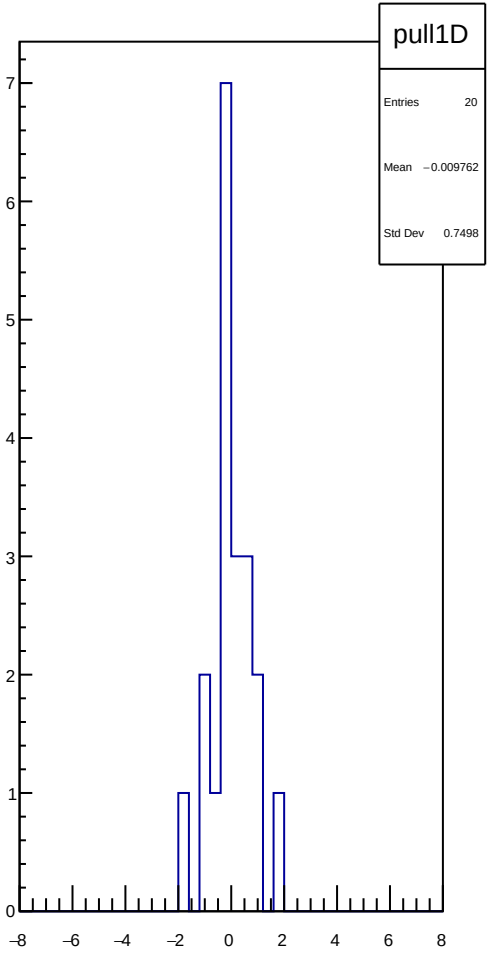

diff_dispE_bpm12X_rms vs run
χ² / ndf 399.1 / 19
p0 6.825 ± 0.01073
7.2
7
6.8
6.6
6.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

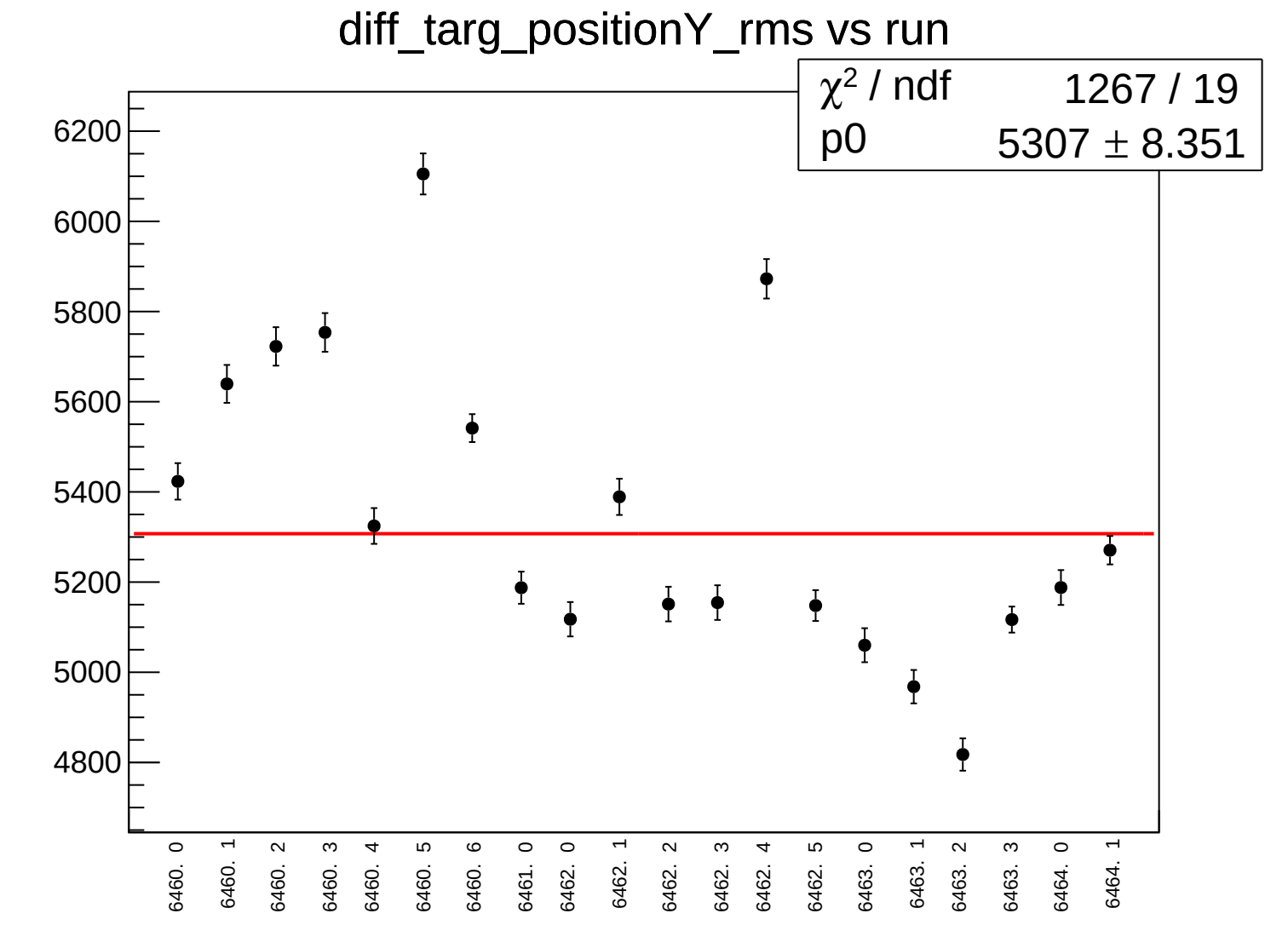

diff_targ_positionX_mean vs run
χ² / ndf 10.48 / 19
p0 −3.73 ± 19.53
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.49
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

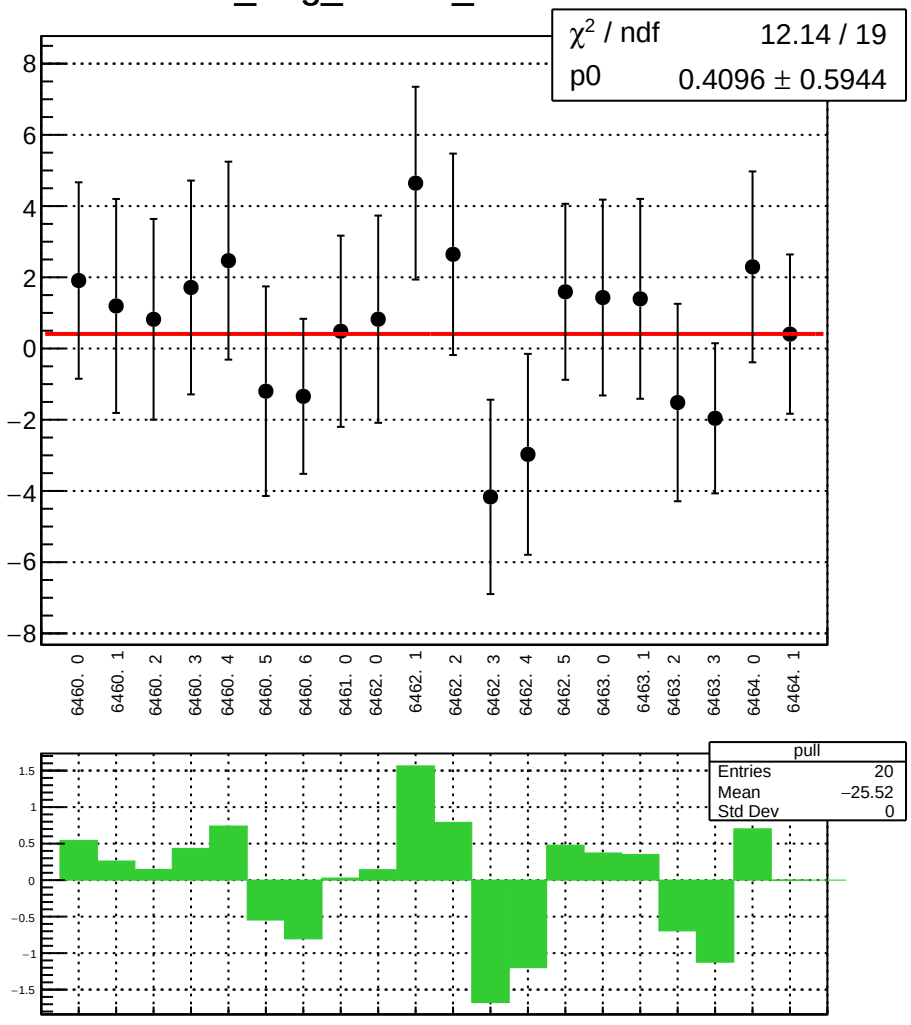

pull1D
Entries 20
Mean 0.01495
Std Dev 0.7237
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

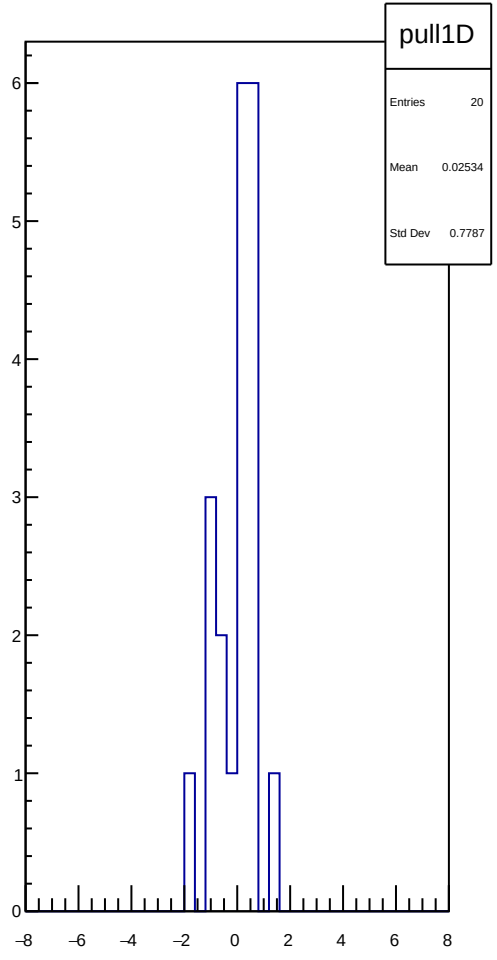

diff_targ_positionX_rms vs run
χ² / ndf 950.5 / 19
p0 8779 ± 13.81
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

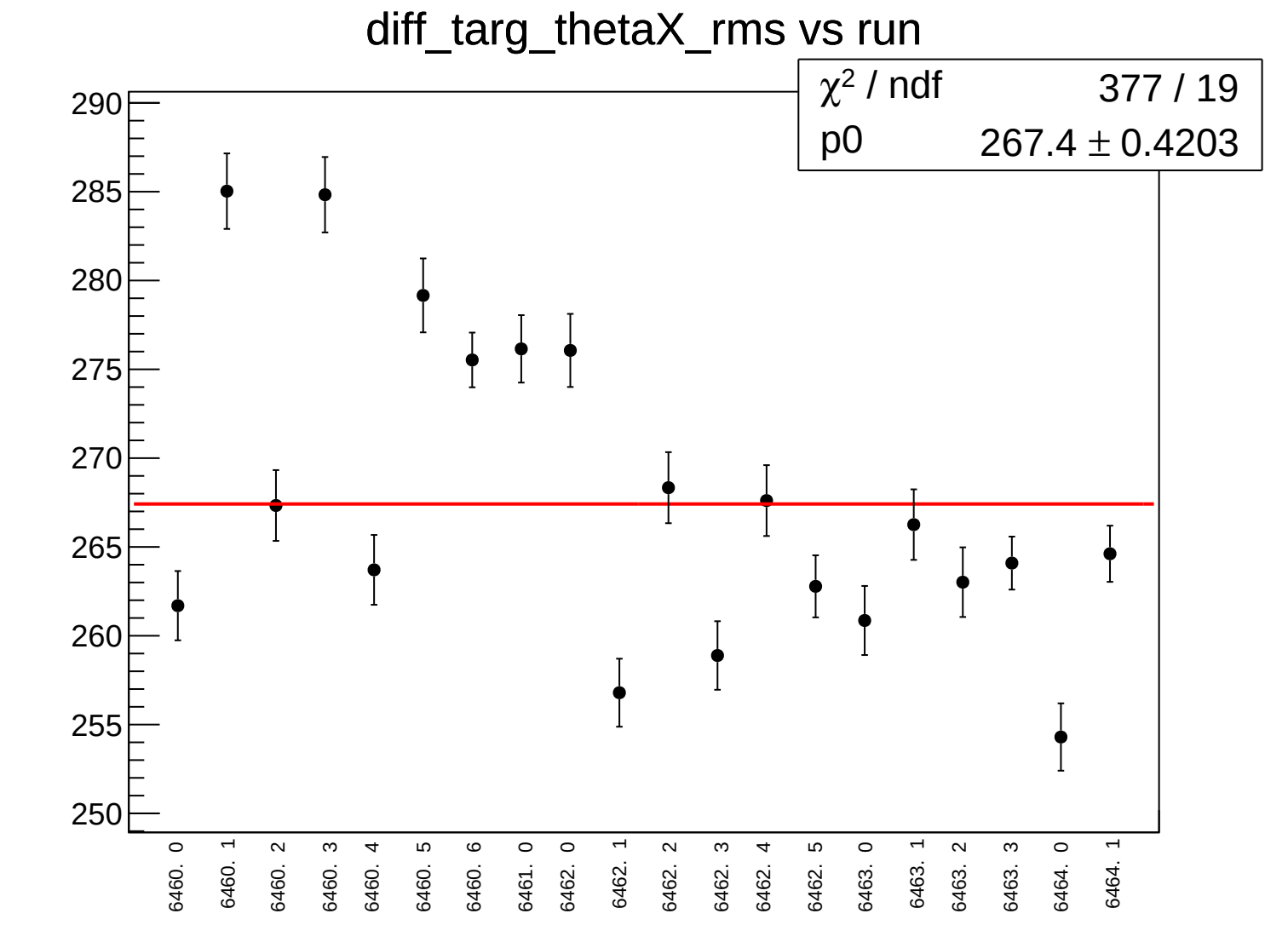

diff_targ_positionY_mean vs run
χ² / ndf 11.25 / 19
p0 6.044 ± 11.81
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

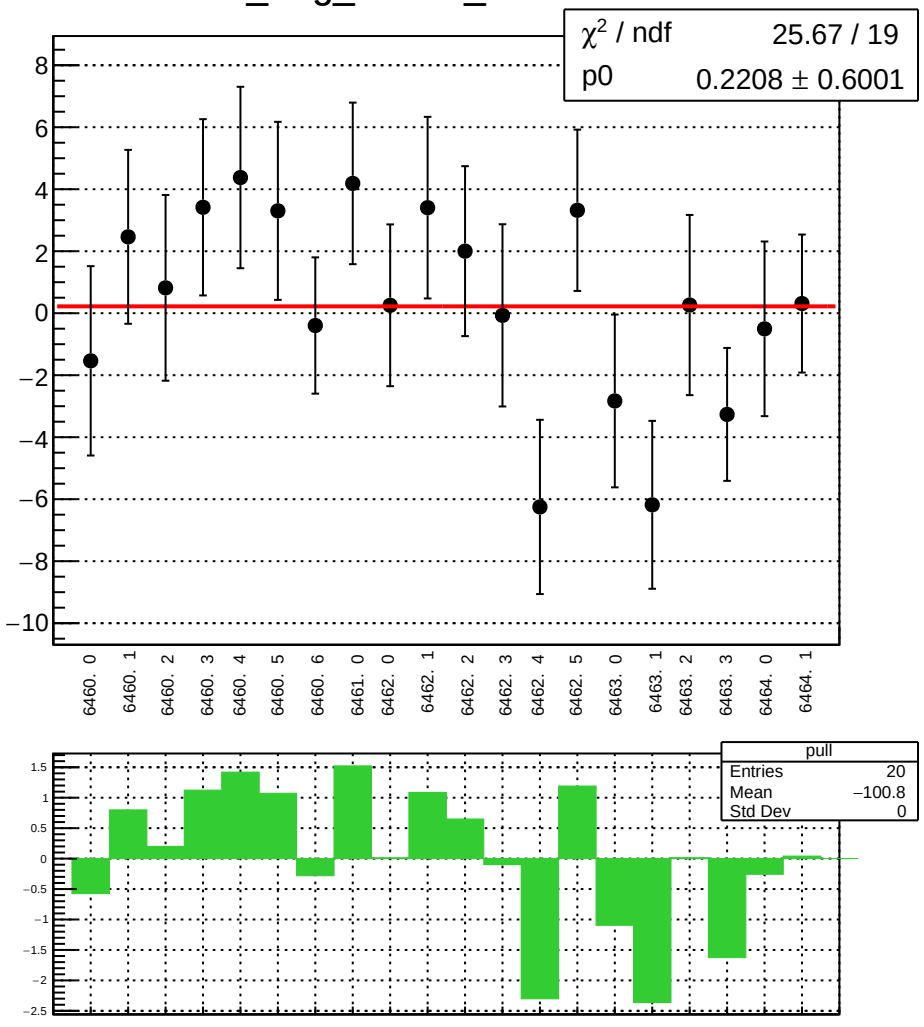

pull1D
Entries 20
Mean −0.009762
Std Dev 0.7498
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

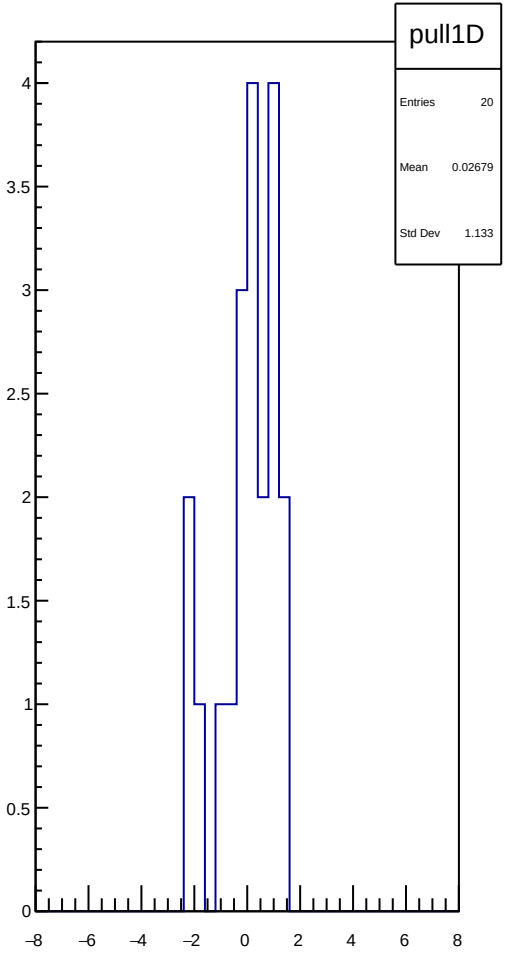

diff_targ_positionY_rms vs run
χ² / ndf 1267 / 19
p0 5307 ± 8.351
6200
6000
5800
5600
5400
5200
5000
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

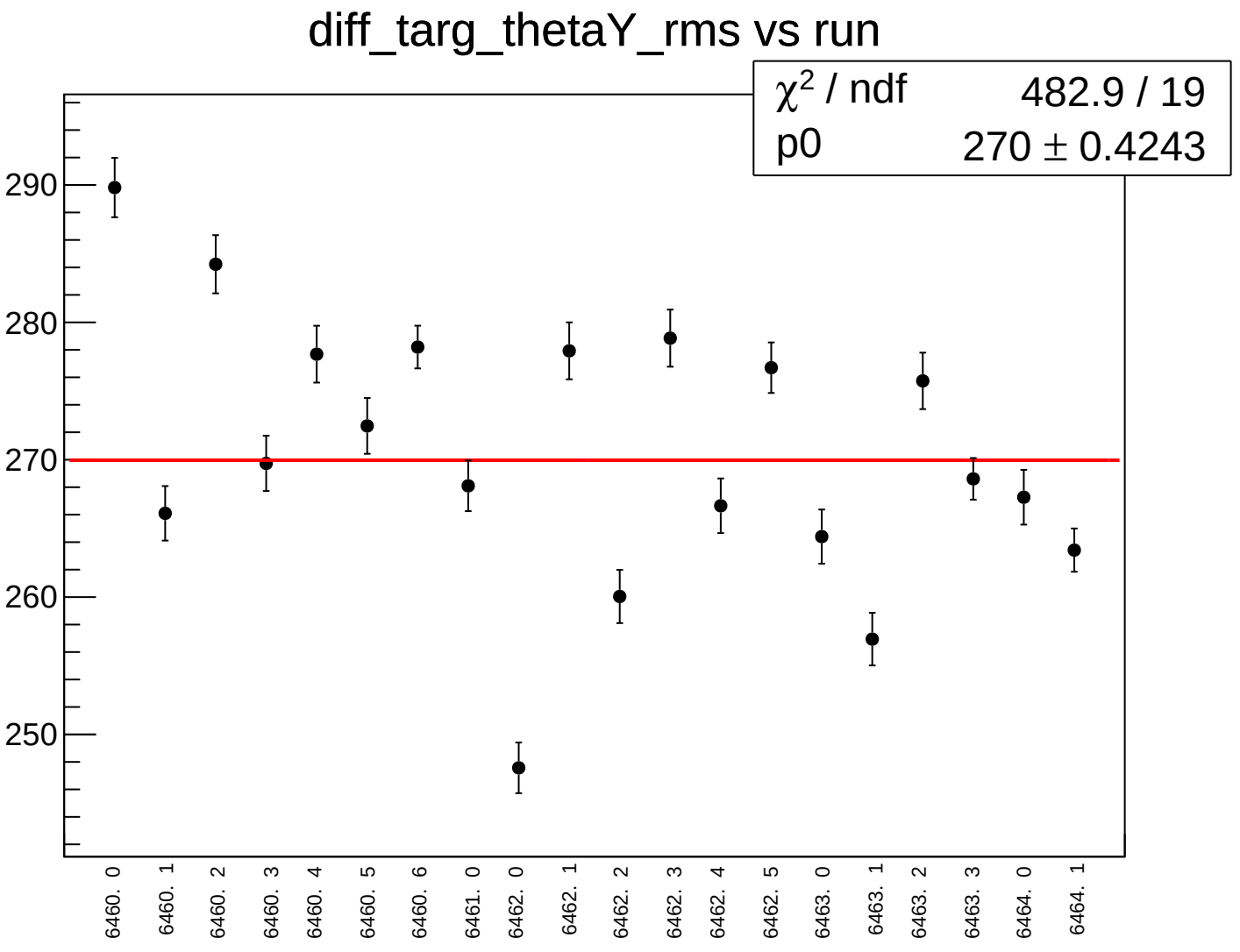

diff_targ_thetaX_mean vs run
χ² / ndf 12.14 / 19
p0 0.4096 ± 0.5944
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −25.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

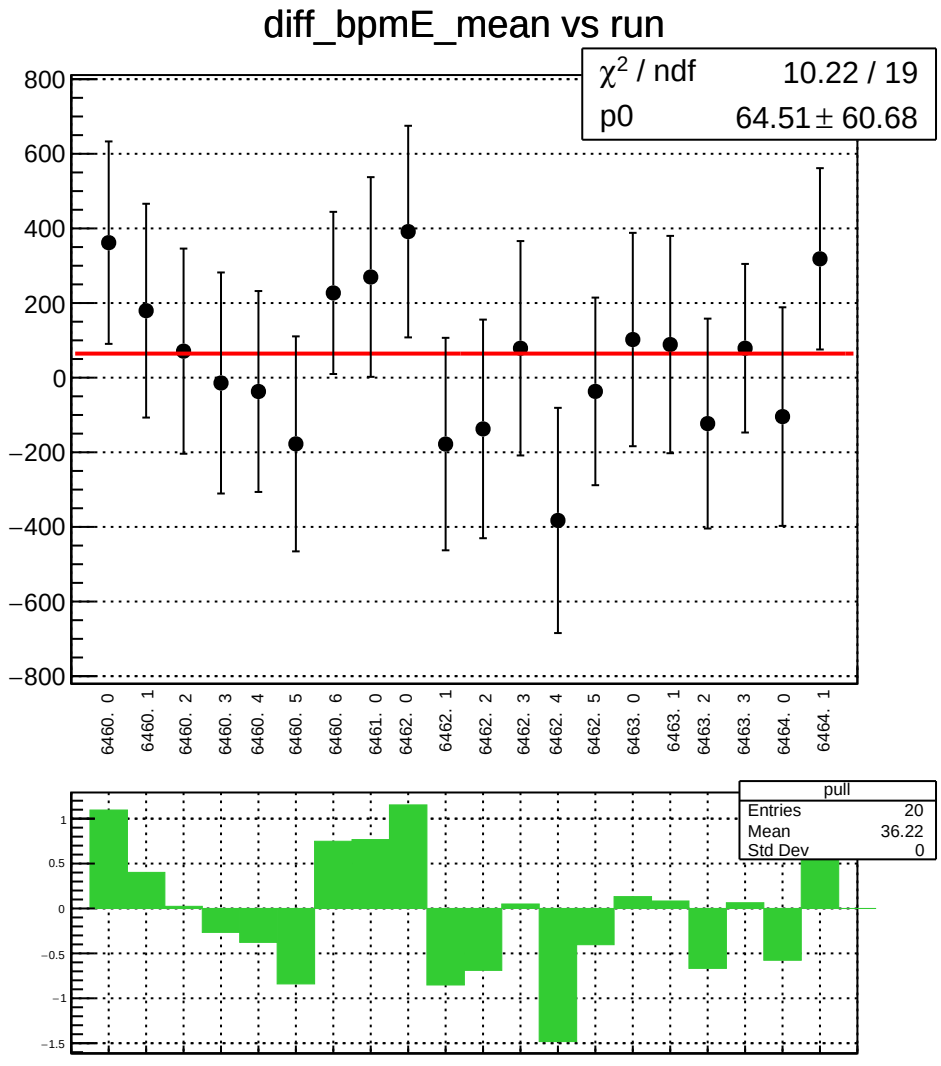

pull1D
Entries 20
Mean 0.02534
Std Dev 0.7787
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

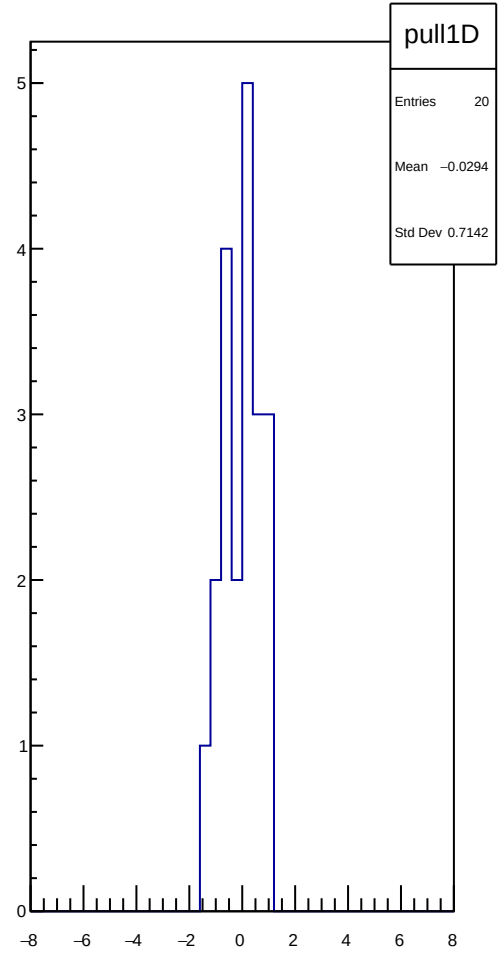

diff_targ_thetaX_rms vs run
χ² / ndf 377 / 19
p0 267.4 ± 0.4203
290
285
280
275
270
265
260
255
250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

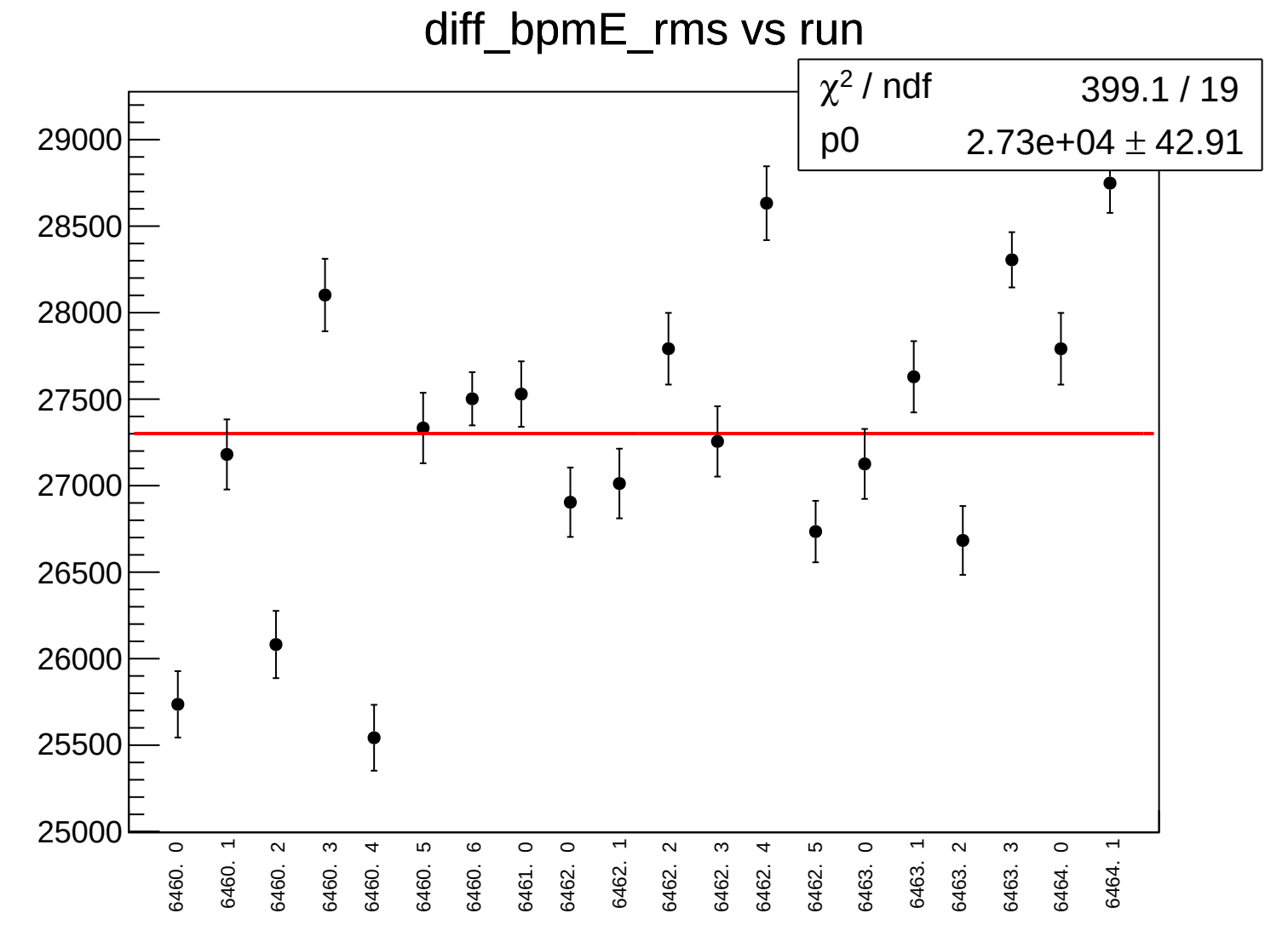

diff_targ_thetaY_mean vs run
χ² / ndf 25.67 / 19
p0 0.2208 ± 0.6001
8
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −100.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

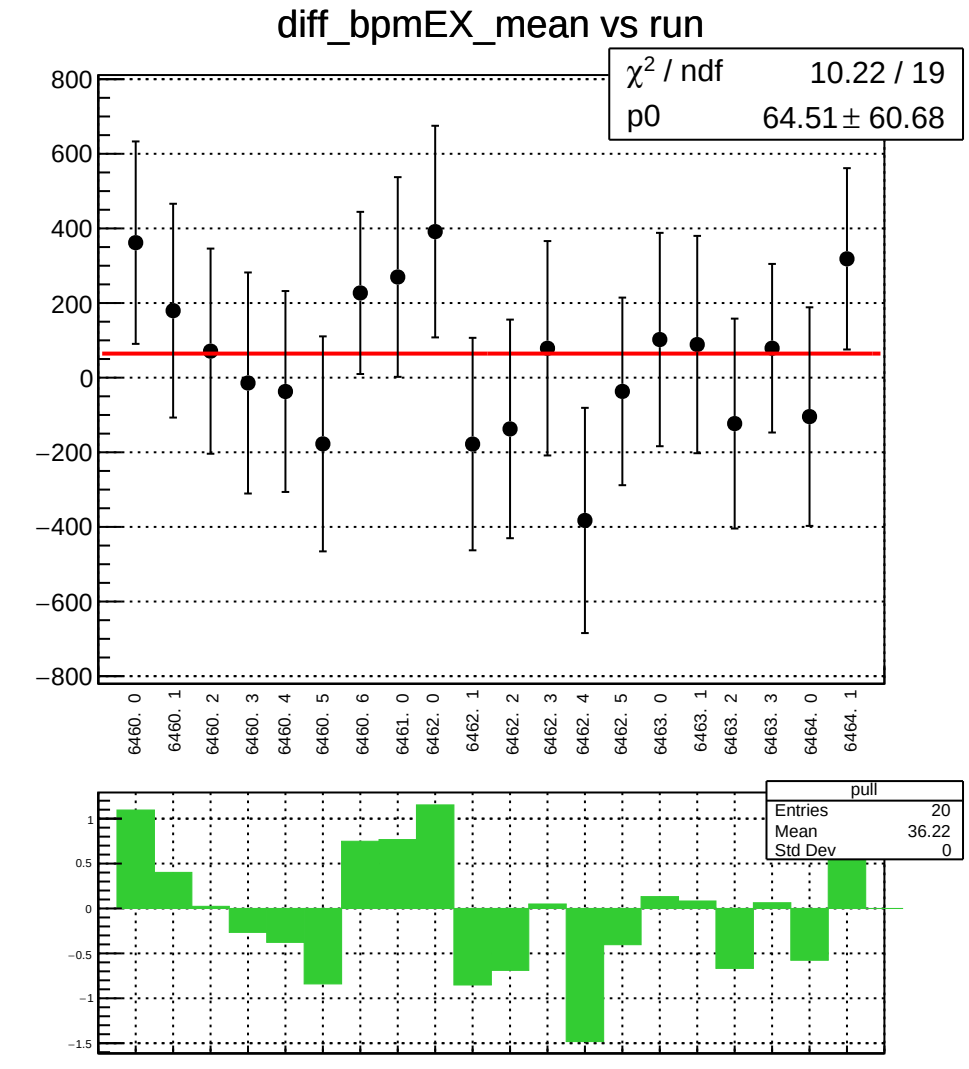

pull1D
Entries 20
Mean 0.02679
Std Dev 1.133
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

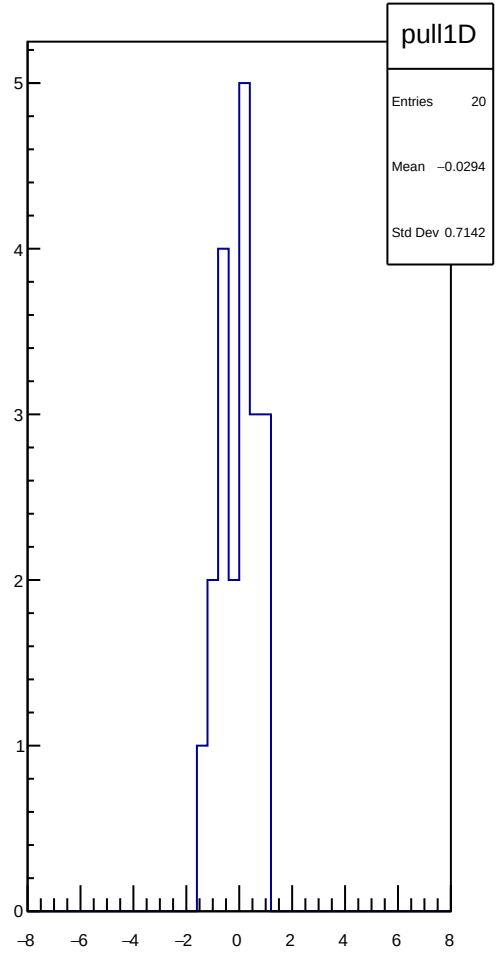

diff_targ_thetaY_rms vs run
χ² / ndf 482.9 / 19
p0 270 ± 0.4243
290
280
270
260
250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

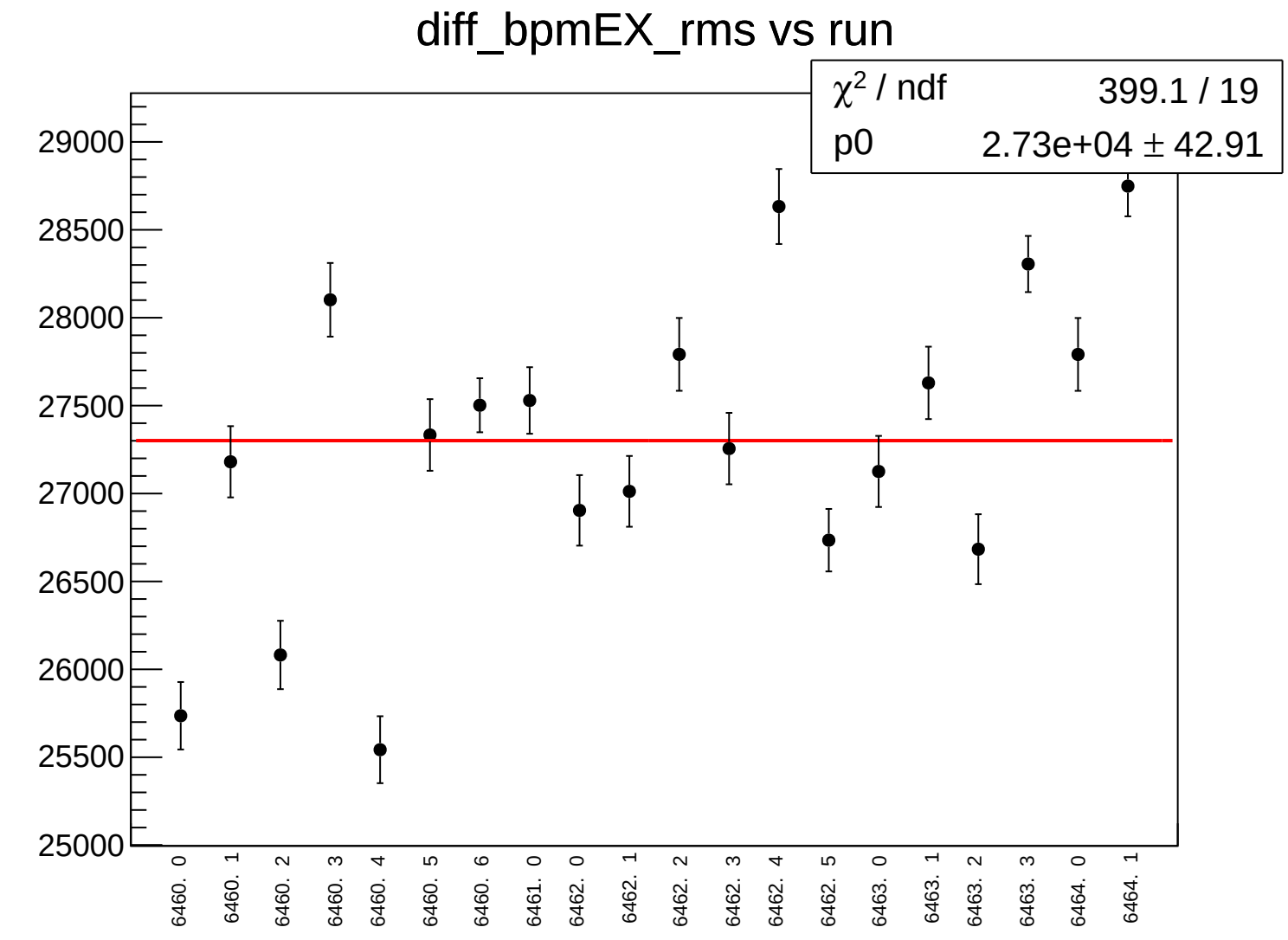

diff_bpmE_mean vs run
χ² / ndf 10.22 / 19
p0 64.51 ± 60.68
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.22
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

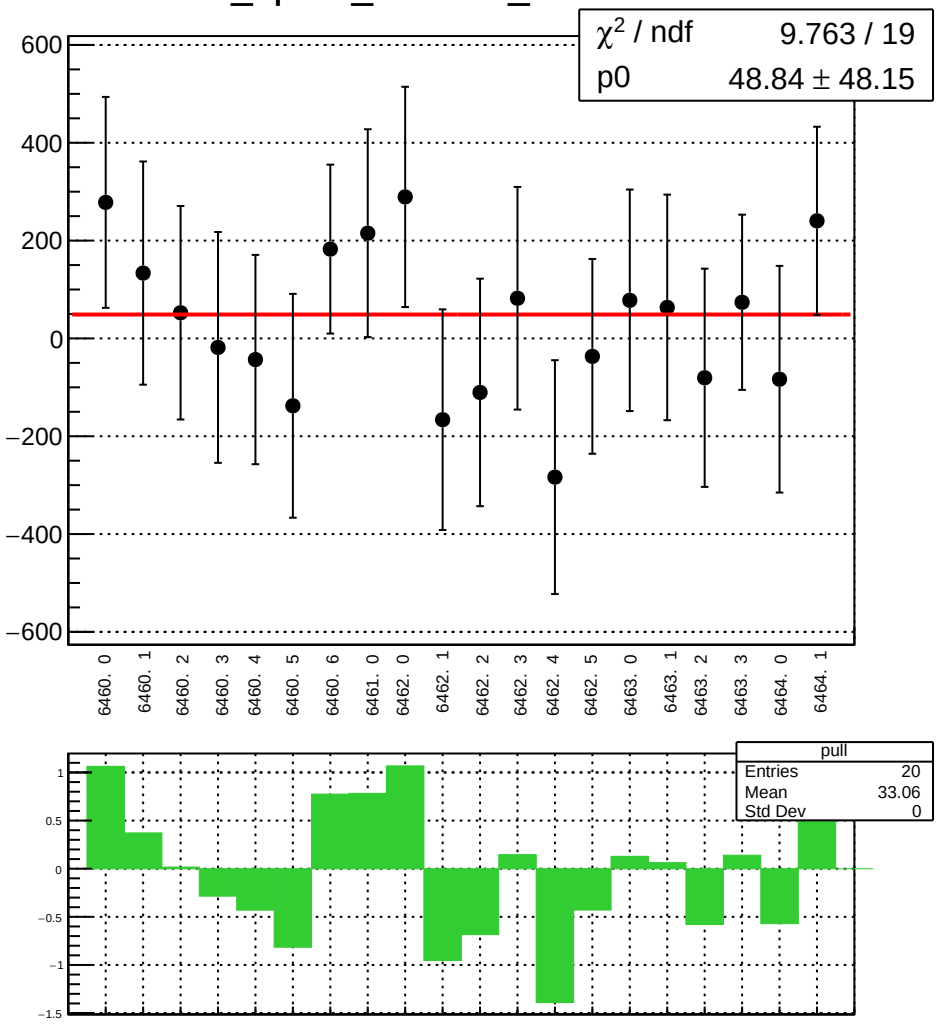

pull1D
Entries 20
Mean −0.0294
Std Dev 0.7142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

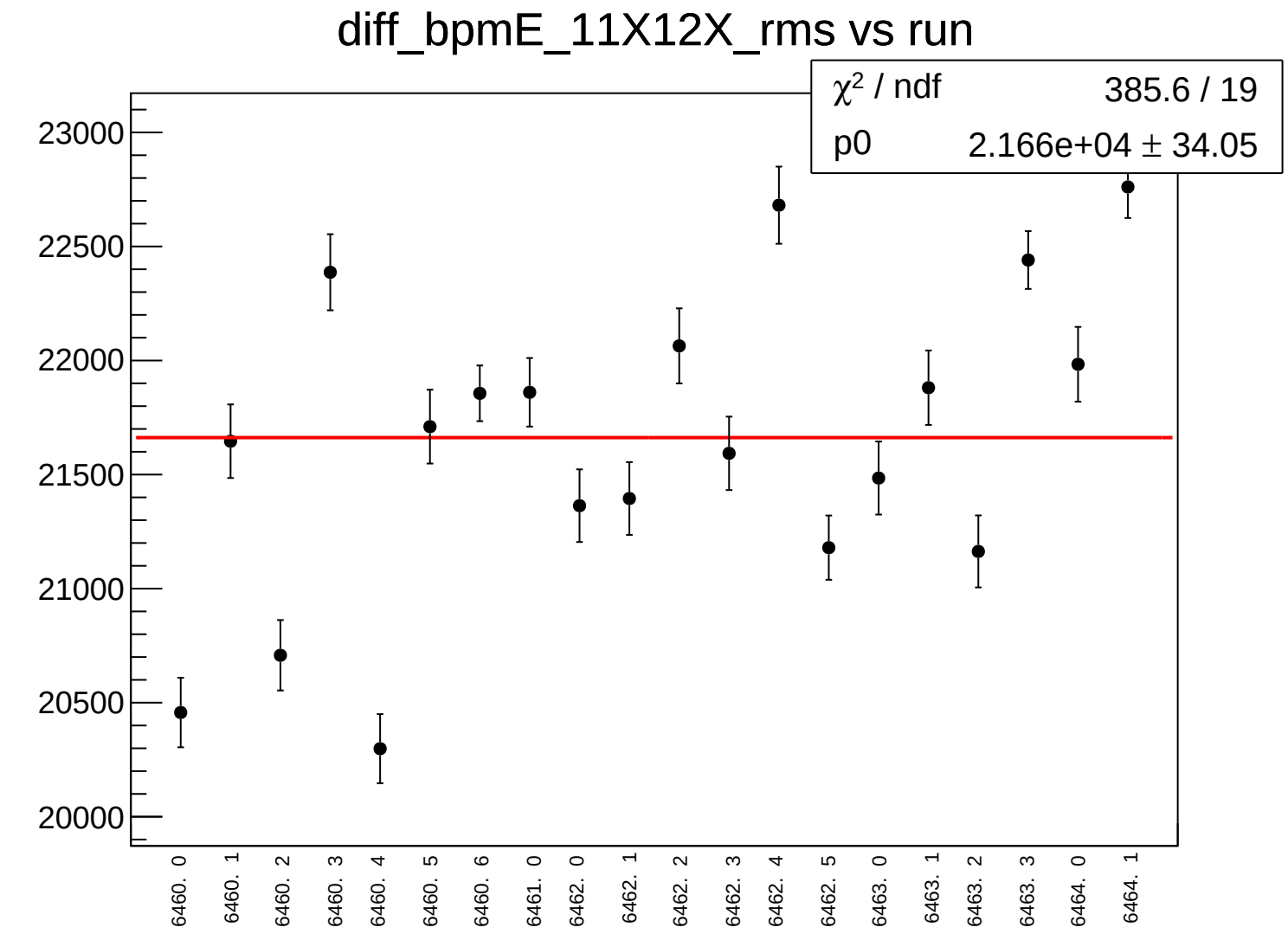

diff_bpmE_rms vs run
χ² / ndf 399.1 / 19
p0 2.73e+04 ± 42.91
29000
28500
28000
27500
27000
26500
26000
25500
25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

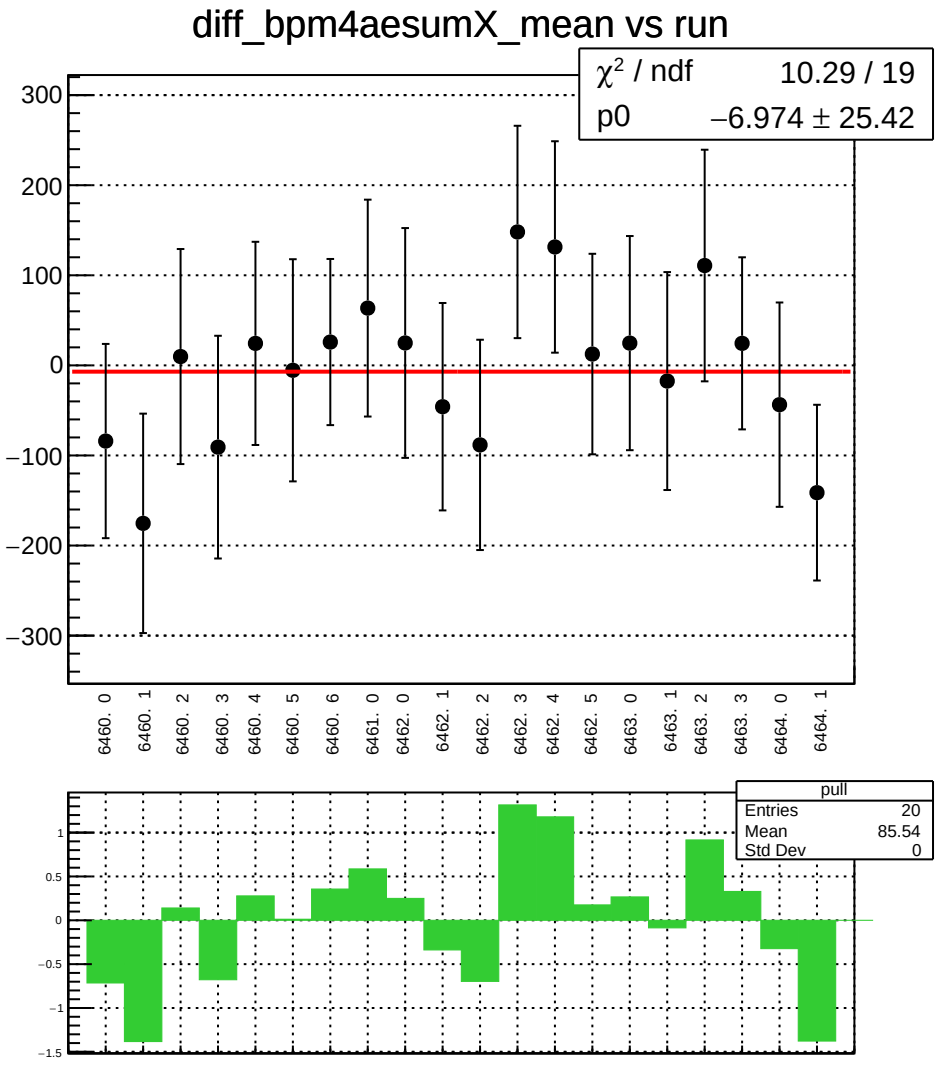

diff_bpmEX_mean vs run
χ² / ndf 10.22 / 19
p0 64.51 ± 60.68
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.22
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

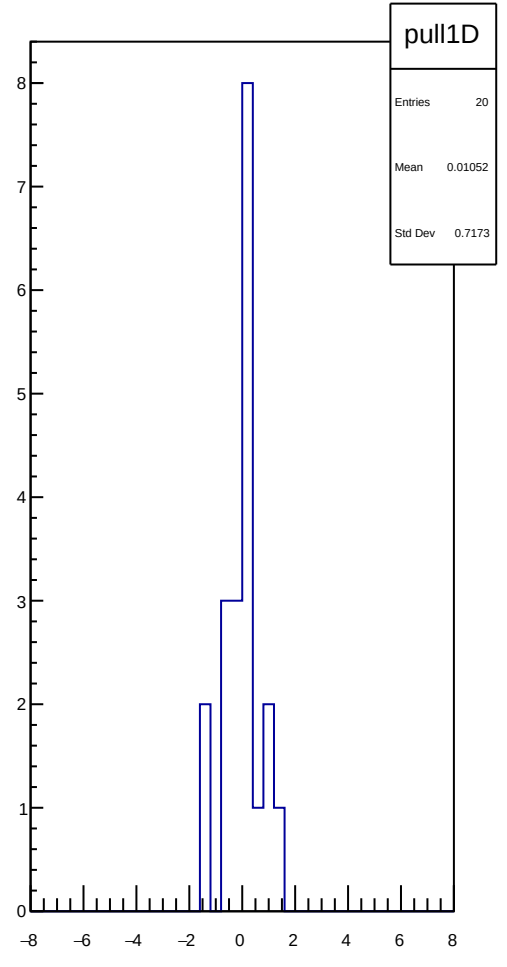

pull1D
Entries 20
Mean −0.0294
Std Dev 0.7142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

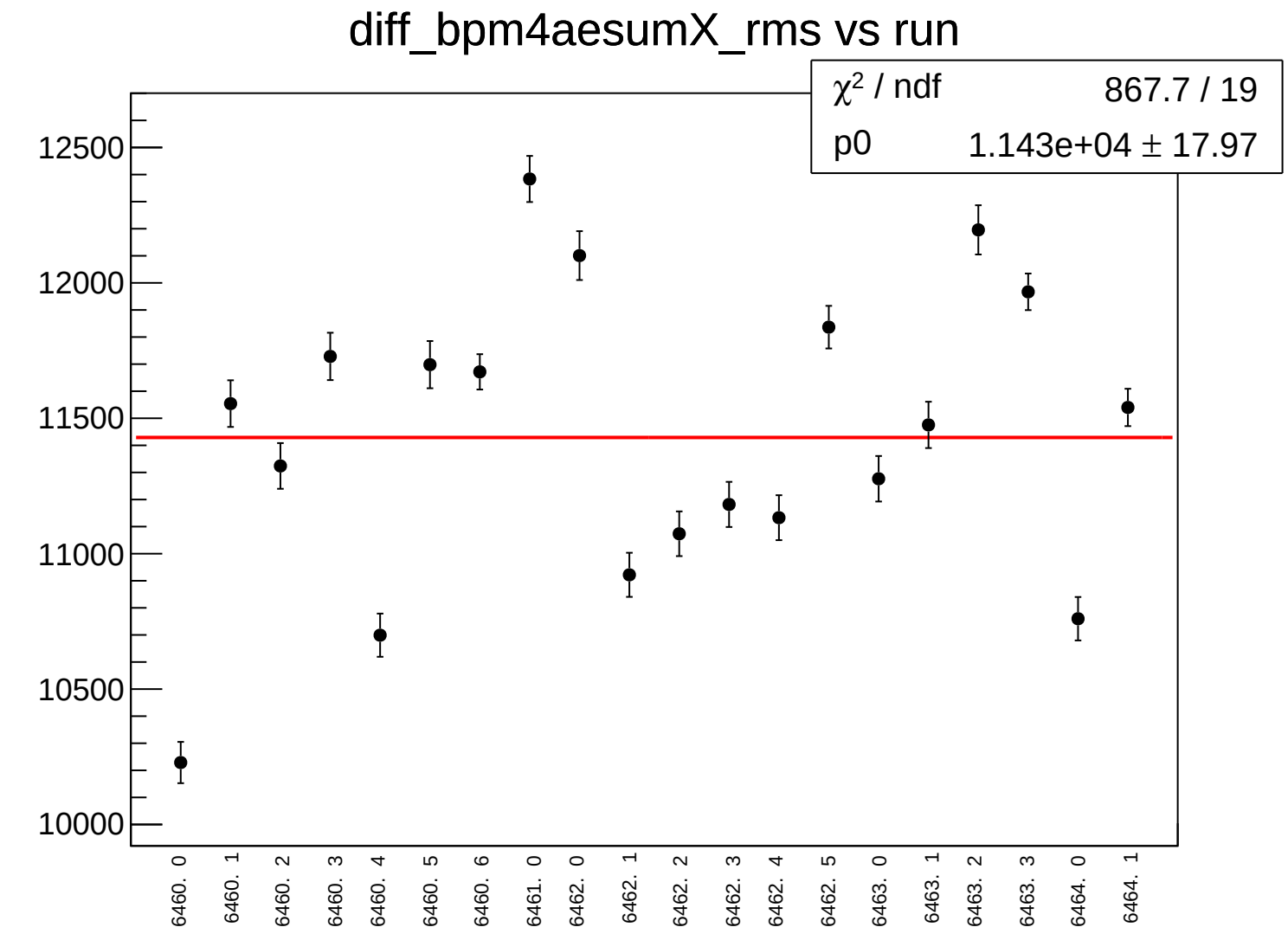

diff_bpmEX_rms vs run
χ² / ndf 399.1 / 19
p0 2.73e+04 ± 42.91
29000
28500
28000
27500
27000
26500
26000
25500
25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

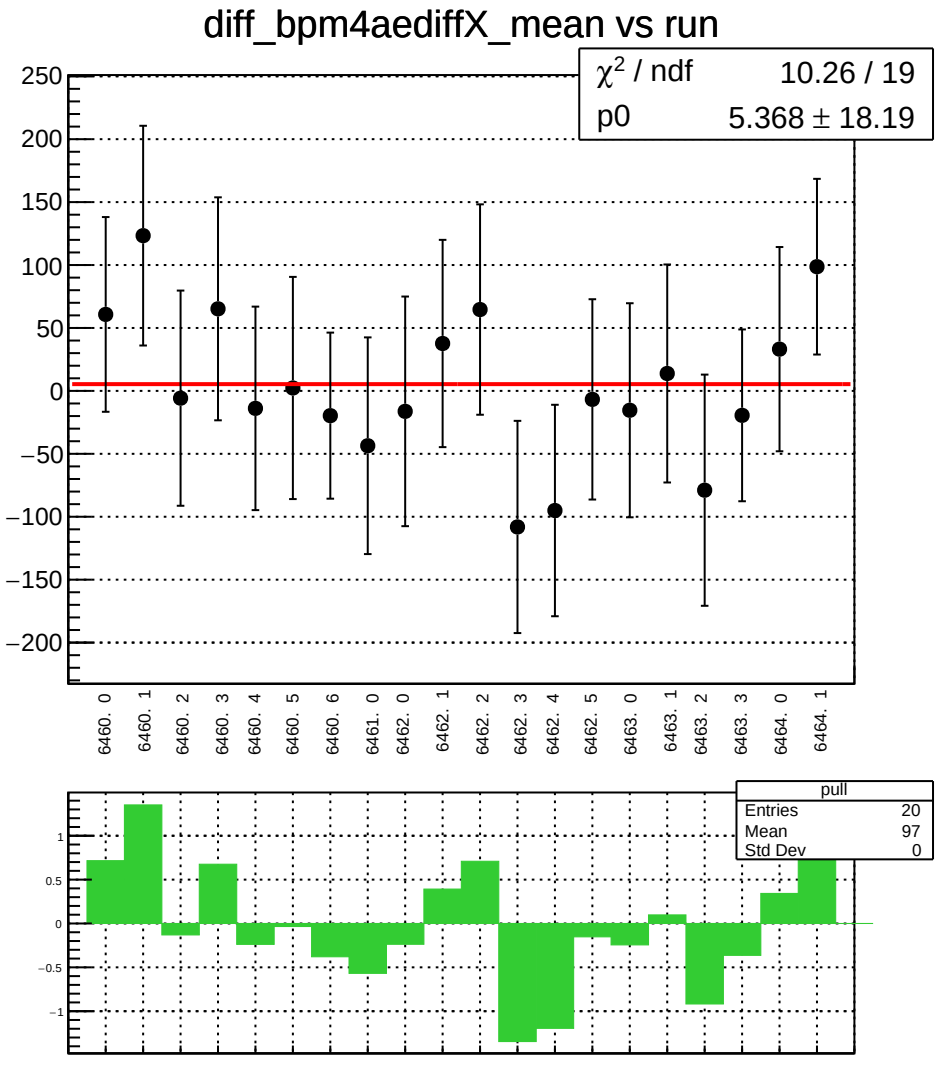

diff_bpmE_11X12X_mean vs run
χ² / ndf 9.763 / 19
p0 48.84 ± 48.15
600
400
200
0
−200
−400
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.06
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02944
Std Dev 0.6981
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

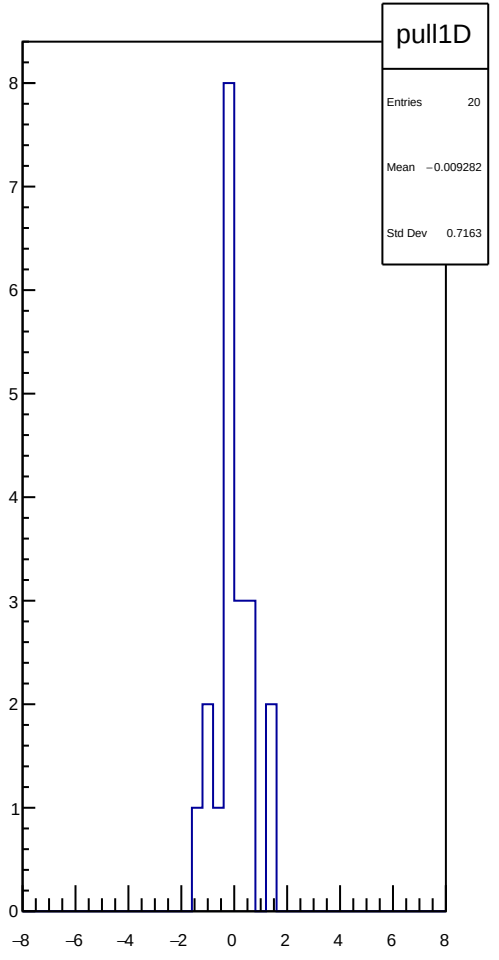

diff_bpmE_11X12X_rms vs run
χ² / ndf 385.6 / 19
p0 2.166e+04 ± 34.05
23000
22500
22000
21500
21000
20500
20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

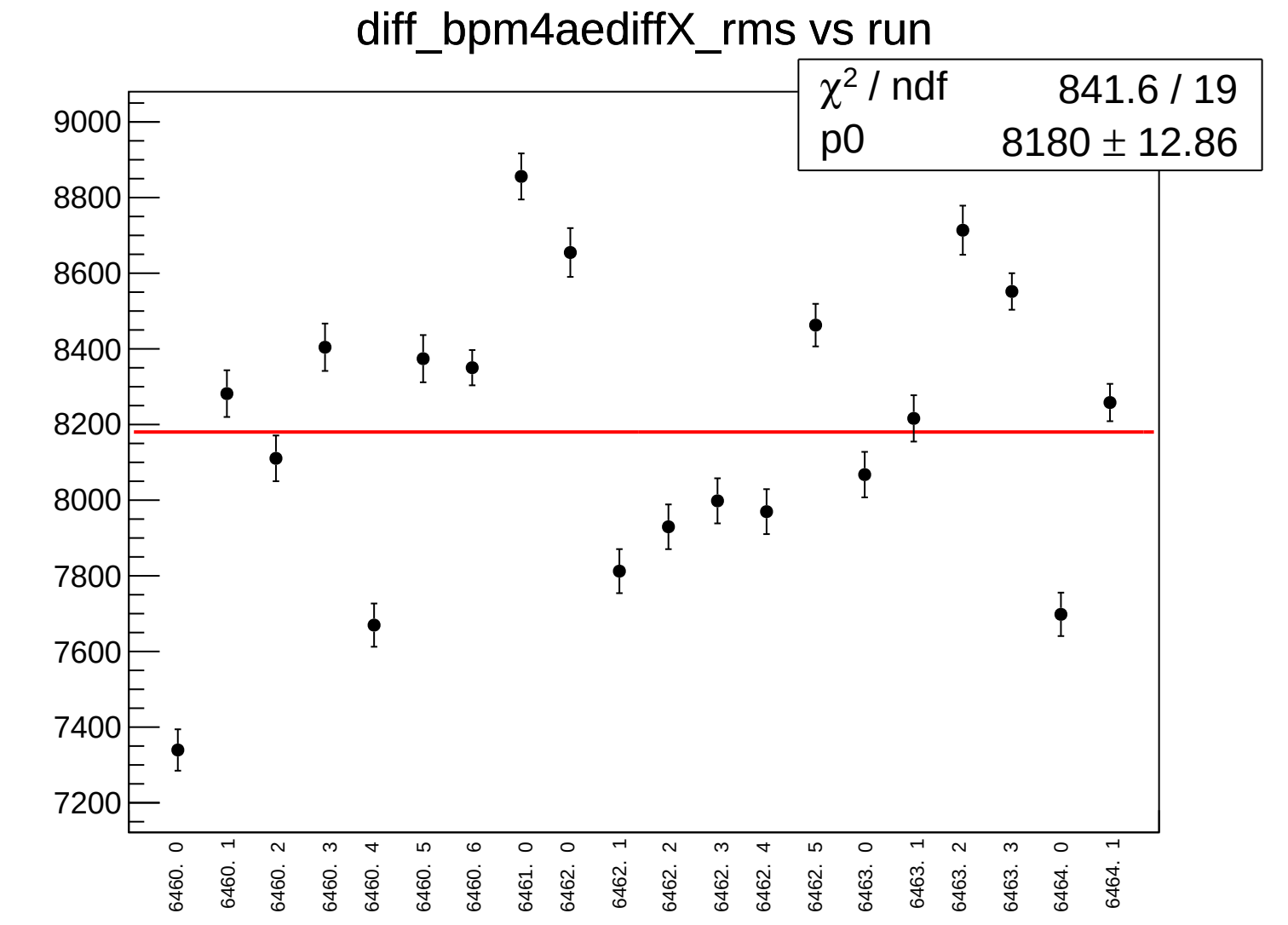

diff_bpm4aesumX_mean vs run
χ² / ndf 10.29 / 19
p0 −6.974 ± 25.42
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 85.54
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

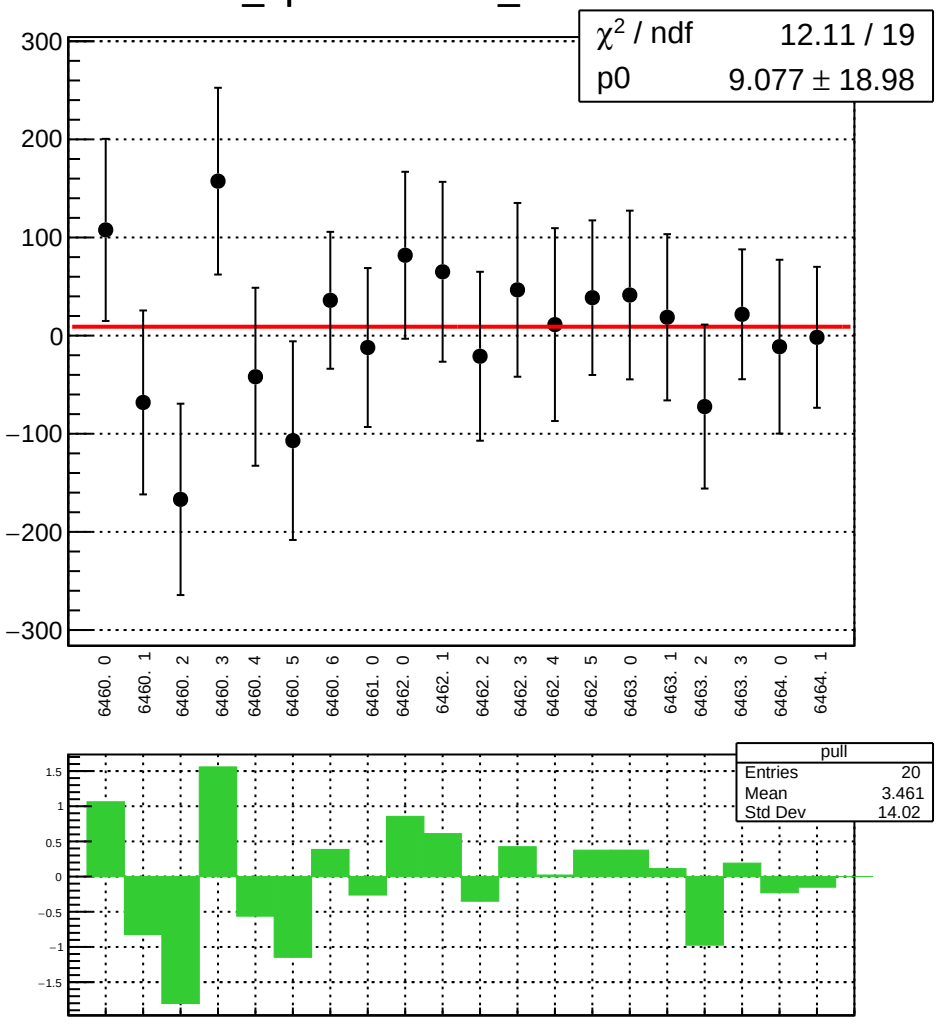

pull1D
Entries 20
Mean 0.01052
Std Dev 0.7173
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

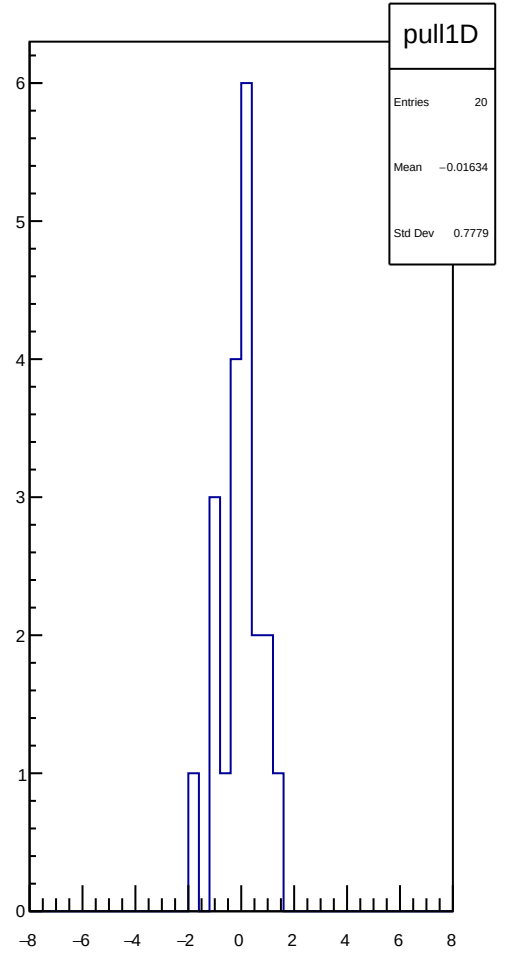

diff_bpm4aesumX_rms vs run
χ² / ndf 867.7 / 19
p0 1.143e+04 ± 17.97
12500
12000
11500
11000
10500
10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

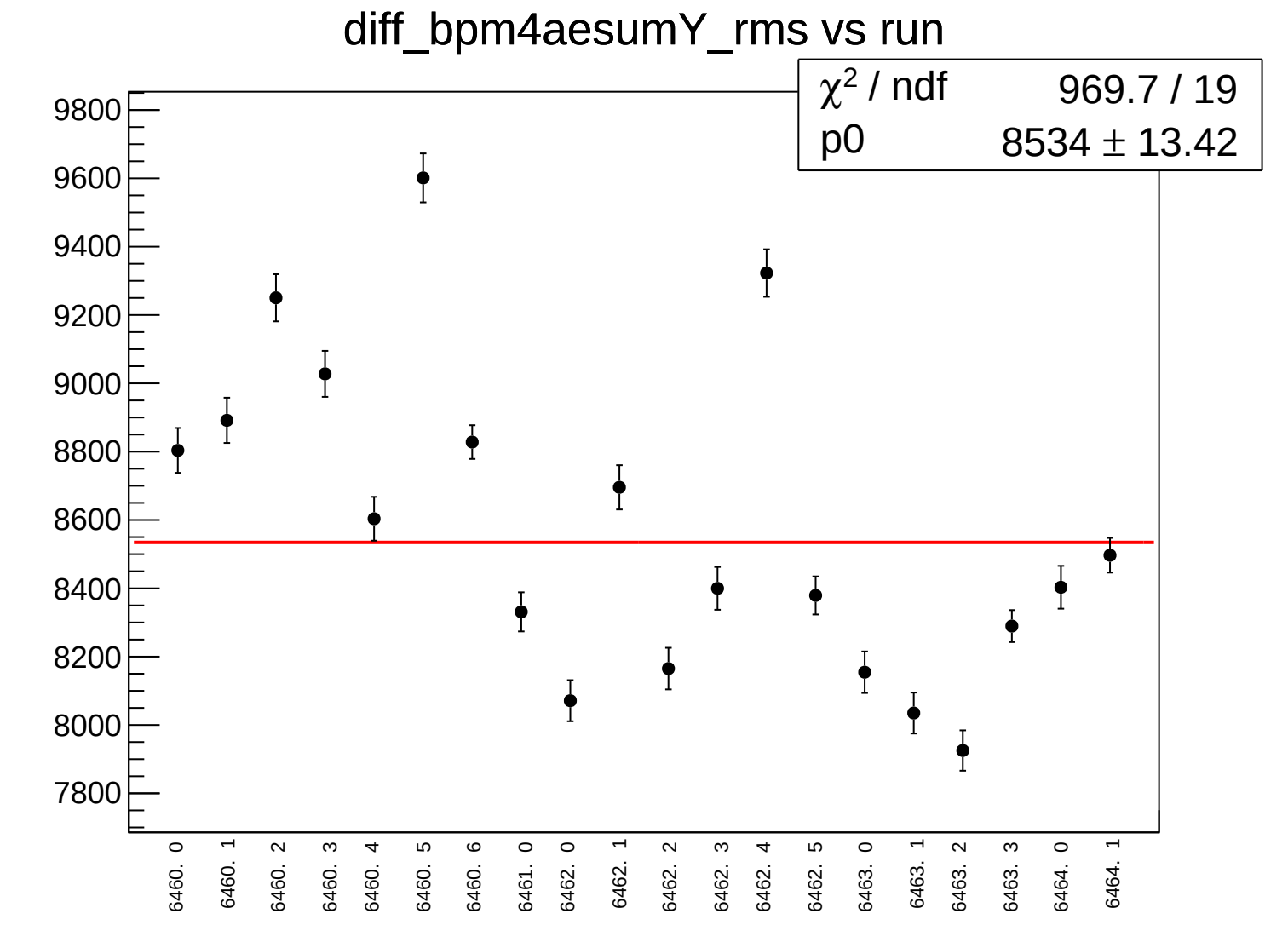

diff_bpm4aediffX_mean vs run
χ² / ndf 10.26 / 19
p0 5.368 ± 18.19
250
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 97
Std Dev 0
1
0.5
0
−0.5
−1

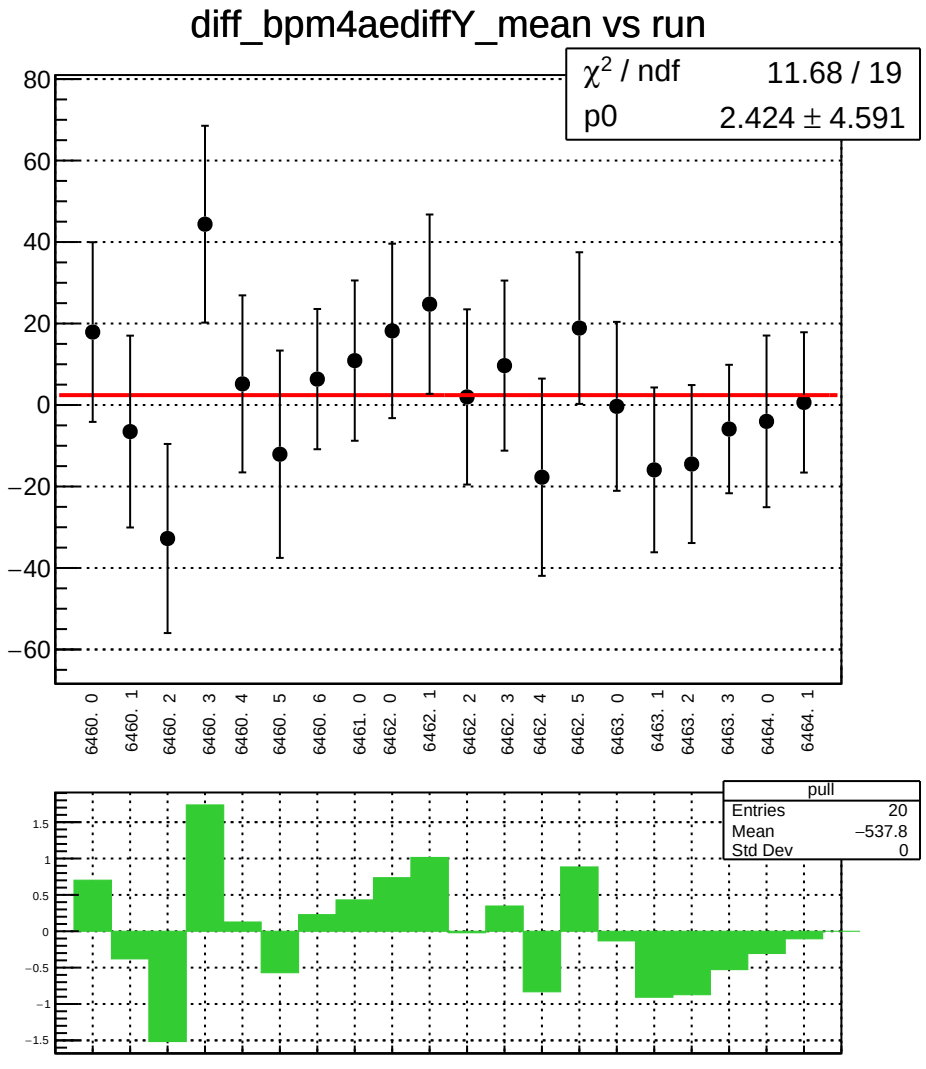

pull1D
Entries 20
Mean −0.009282
Std Dev 0.7163
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

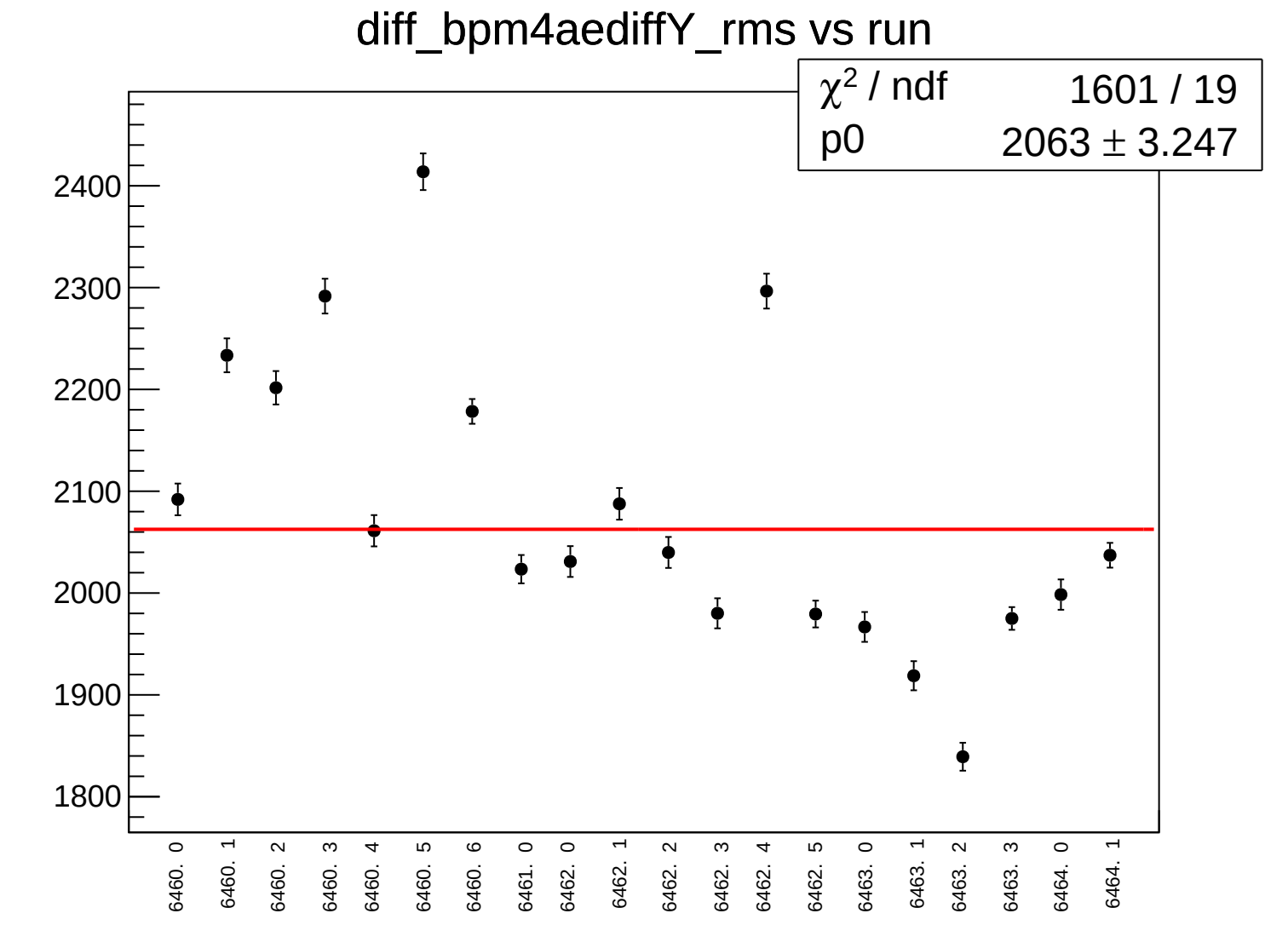

diff_bpm4aediffX_rms vs run
χ² / ndf 841.6 / 19
p0 8180 ± 12.86
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

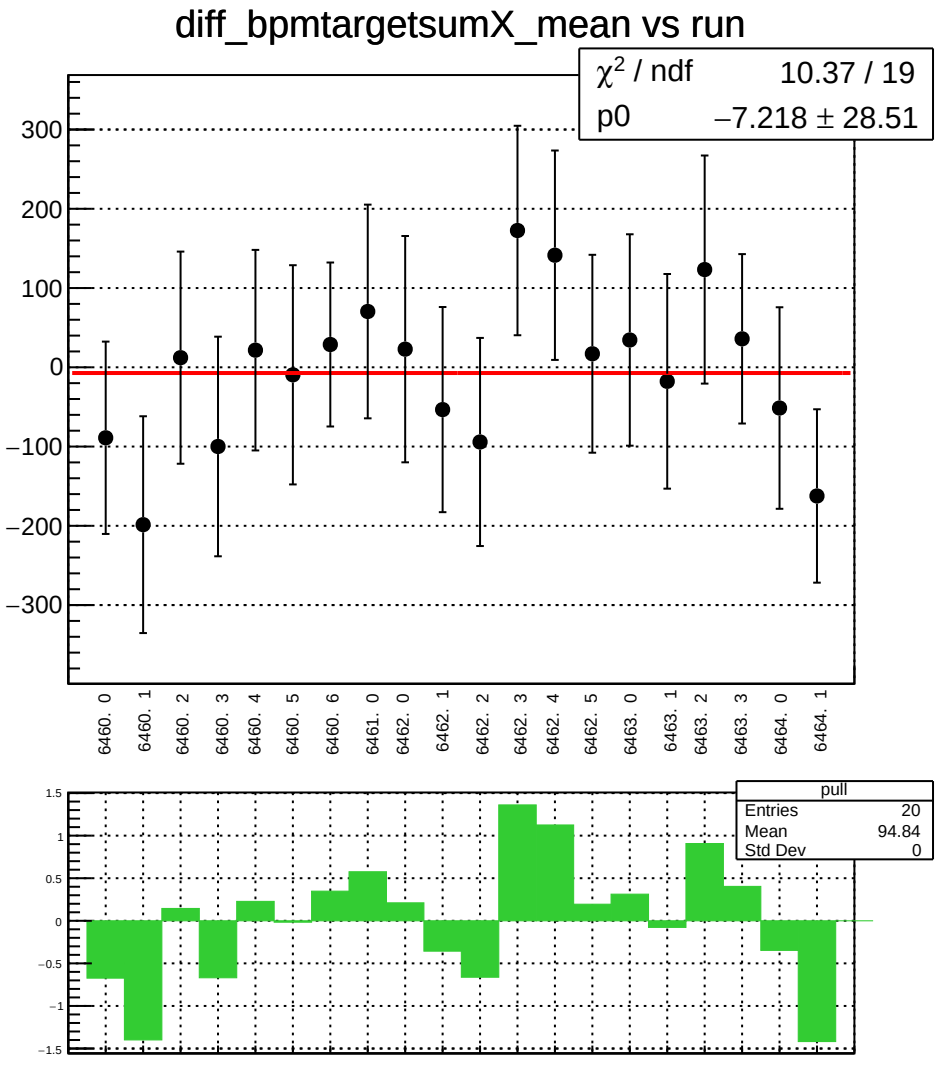

diff_bpm4aesumY_mean vs run
χ² / ndf 12.11 / 19
p0 9.077 ± 18.98
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.461
Std Dev 14.02
1.5
1
0.5
0
−0.5
−1
−1.5

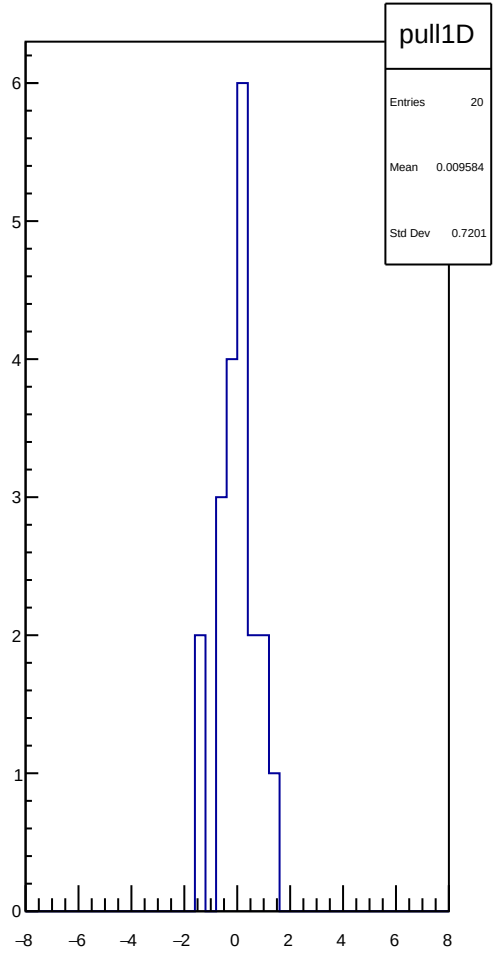

pull1D
Entries 20
Mean −0.01634
Std Dev 0.7779
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

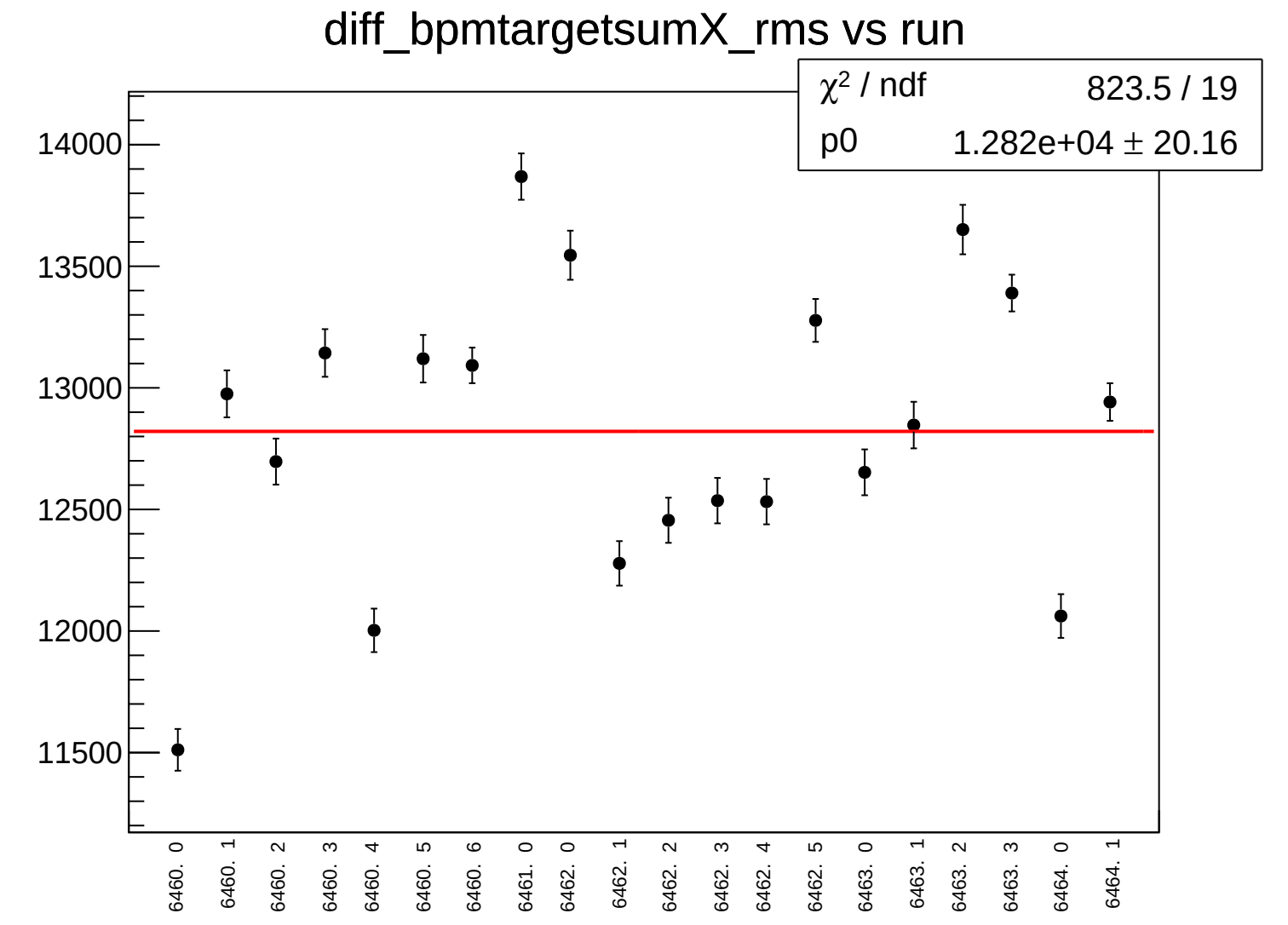

diff_bpm4aesumY_rms vs run
χ² / ndf 969.7 / 19
p0 8534 ± 13.42
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

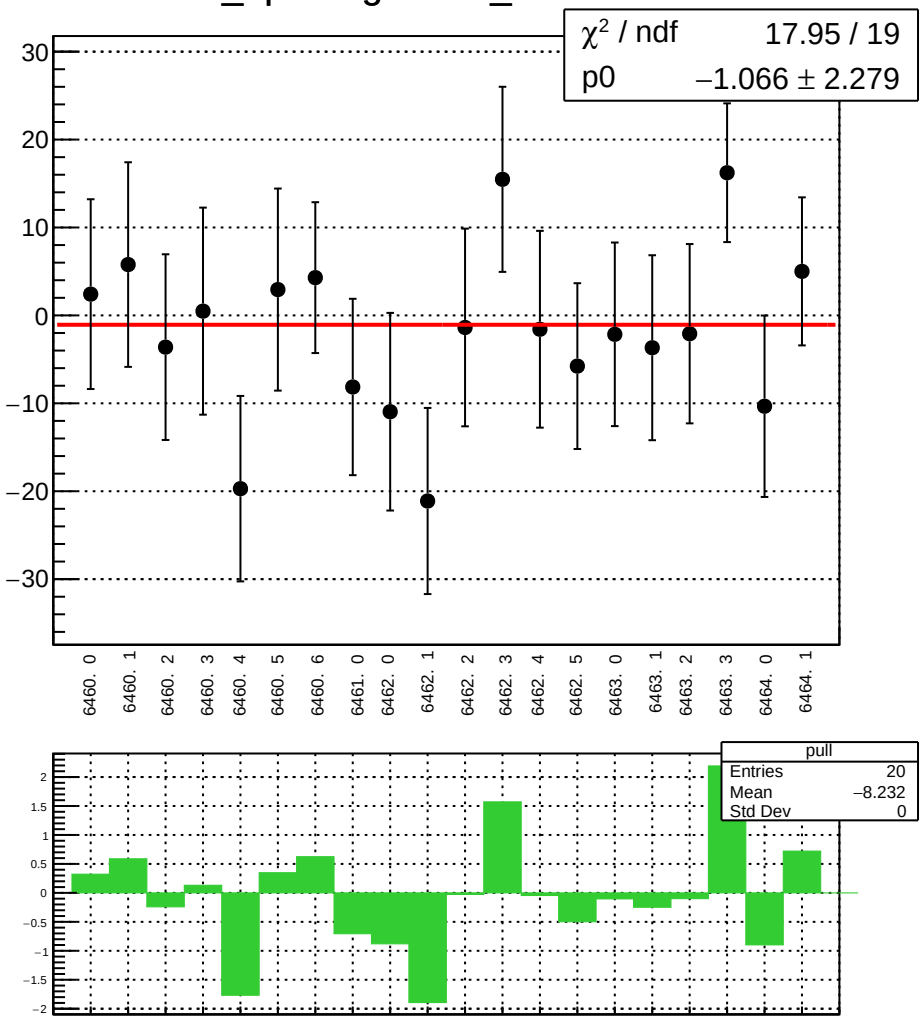

diff_bpm4aediffY_mean vs run
χ² / ndf 11.68 / 19
p0 2.424 ± 4.591
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −537.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.002031
Std Dev 0.7643
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

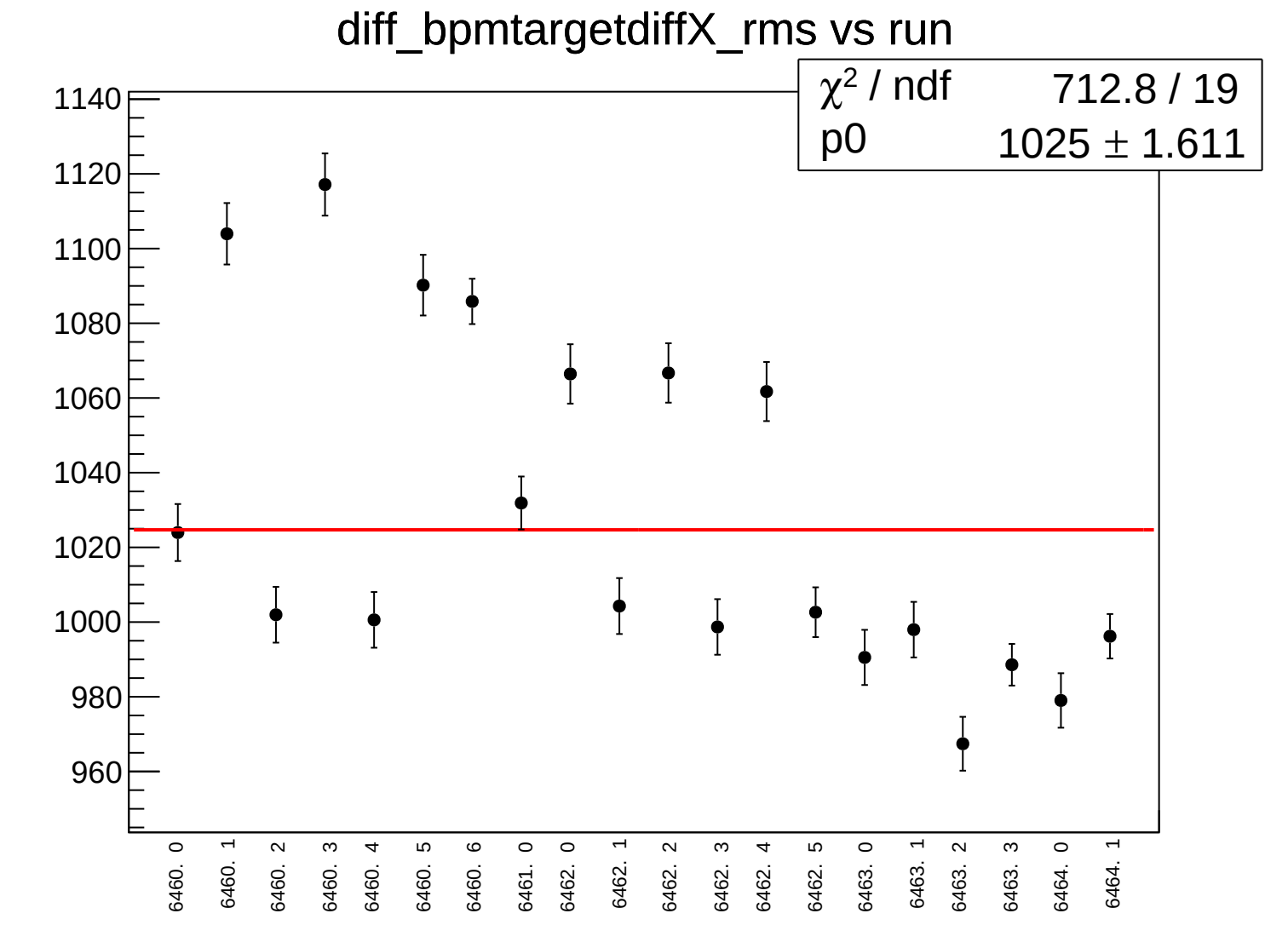

diff_bpm4aediffY_rms vs run
χ² / ndf 1601 / 19
p0 2063 ± 3.247
2400
2300
2200
2100
2000
1900
1800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

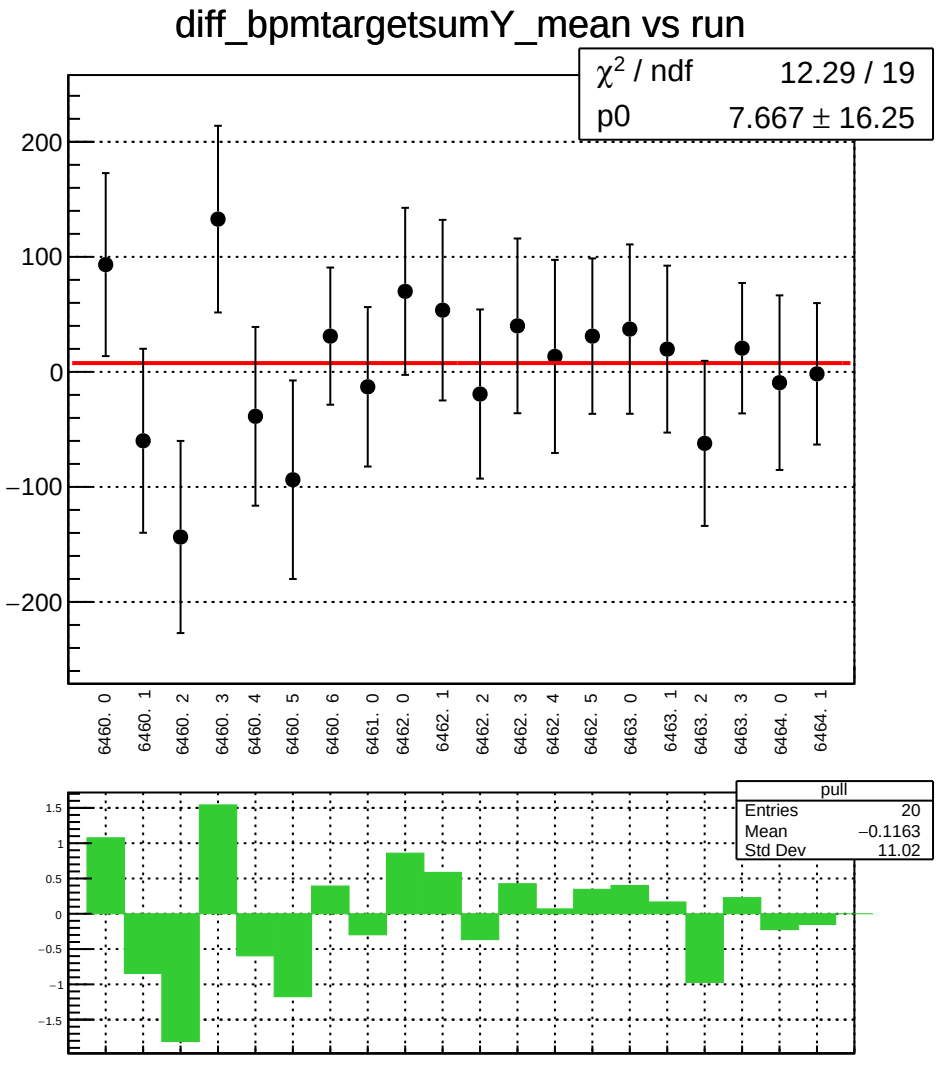

diff_bpmtargetsumX_mean vs run
χ² / ndf 10.37 / 19
p0 −7.218 ± 28.51
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 94.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

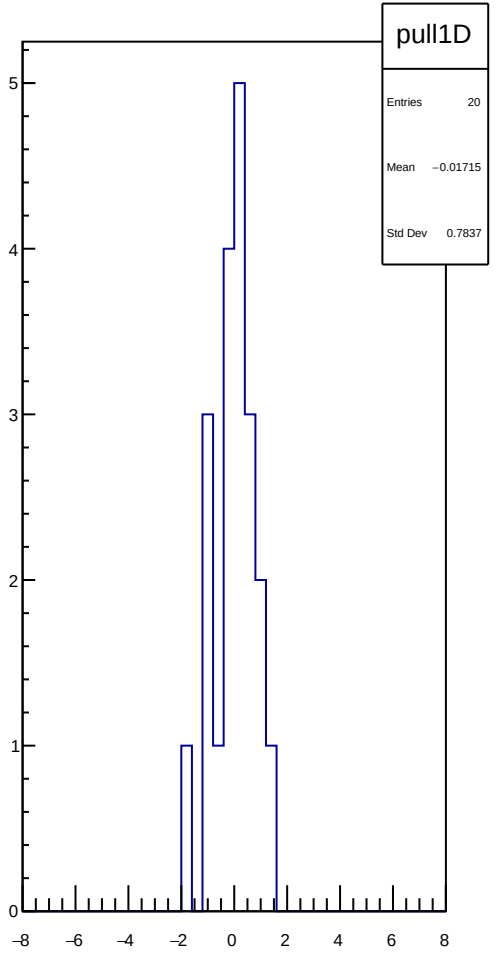

pull1D
Entries 20
Mean 0.009584
Std Dev 0.7201
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

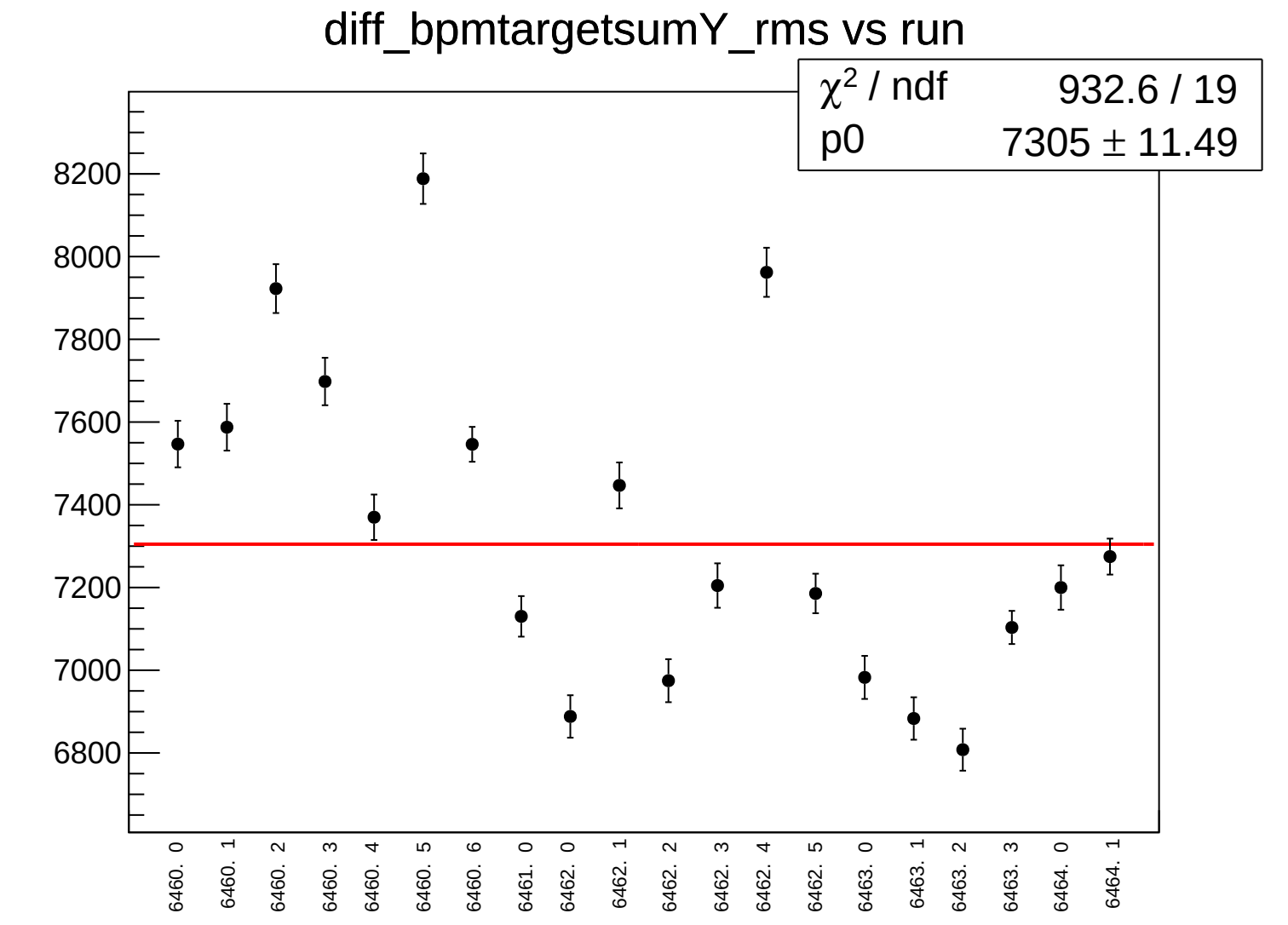

diff_bpmtargetsumX_rms vs run
χ² / ndf 823.5 / 19
p0 1.282e+04 ± 20.16
14000
13500
13000
12500
12000
11500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

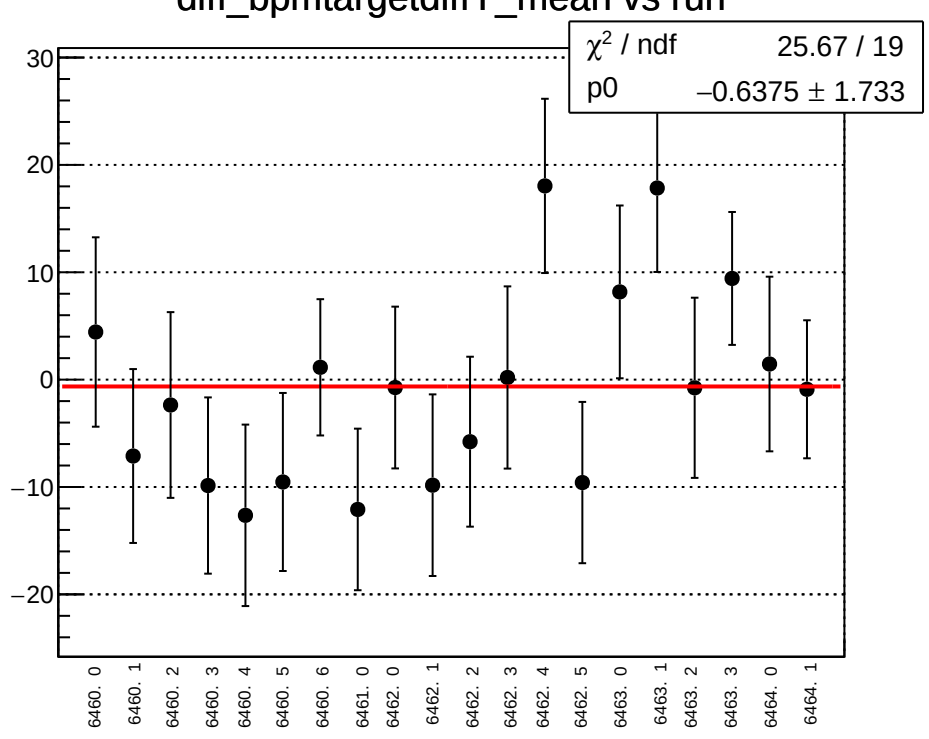

diff_bpmtargetdiffX_mean vs run
χ² / ndf 17.95 / 19
p0 −1.066 ± 2.279
30
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −8.232
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.04536
Std Dev 0.9464
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

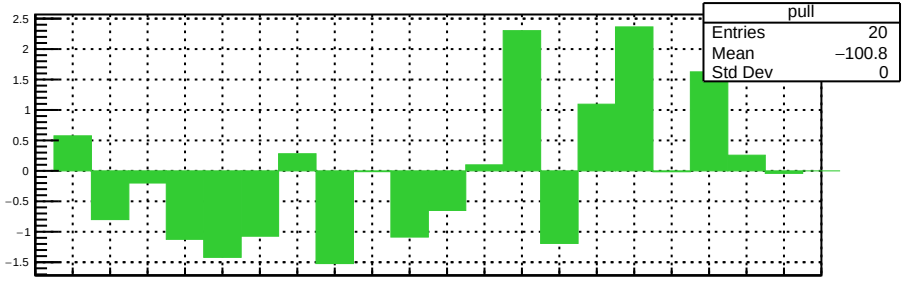

diff_bpmtargetdiffX_rms vs run
χ² / ndf 712.8 / 19
p0 1025 ± 1.611
1140
1120
1100
1080
1060
1040
1020
1000
980
960
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

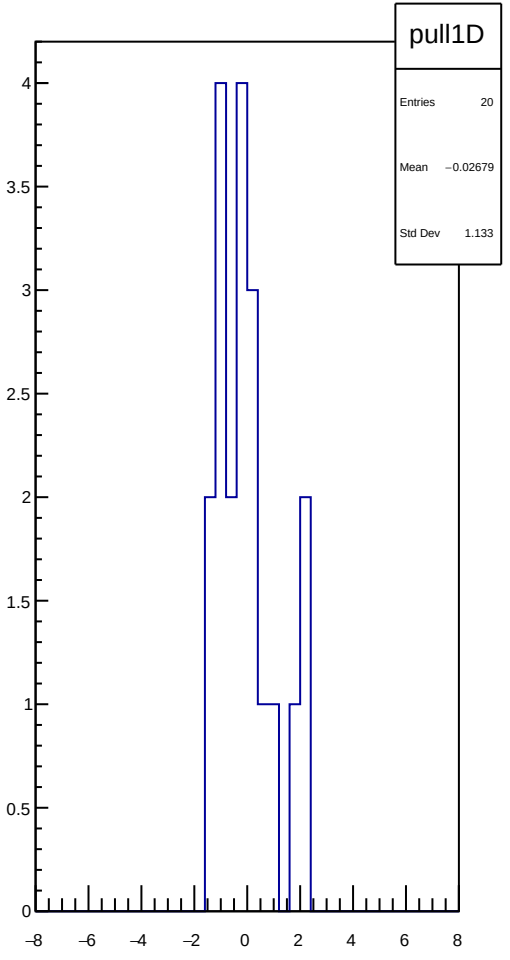

diff_bpmtargetsumY_mean vs run
χ² / ndf 12.29 / 19
p0 7.667 ± 16.25
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.1163
Std Dev 11.02
1.5
1
0.5
0
−0.5
−1
−1.5

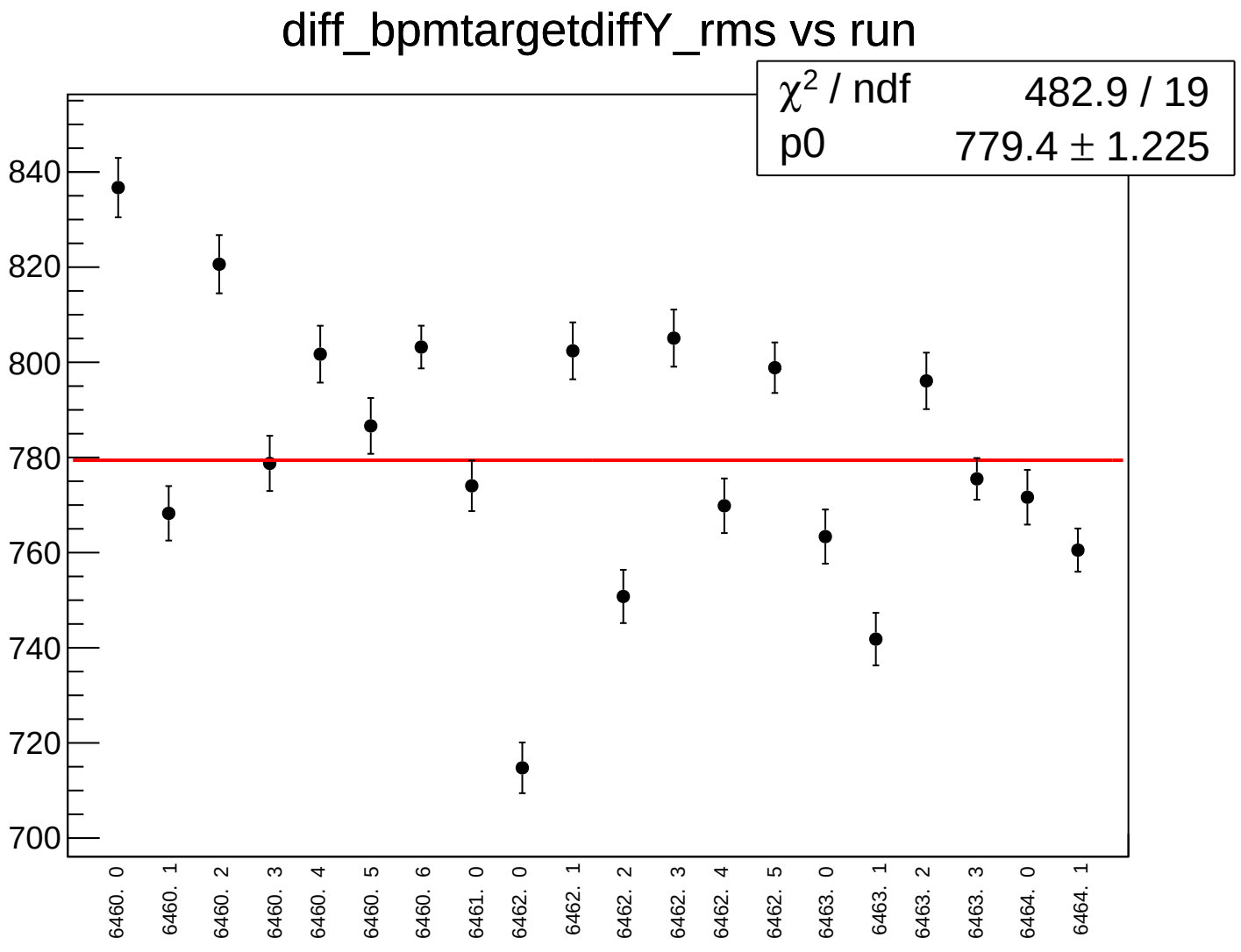

pull1D
Entries 20
Mean −0.01715
Std Dev 0.7837
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

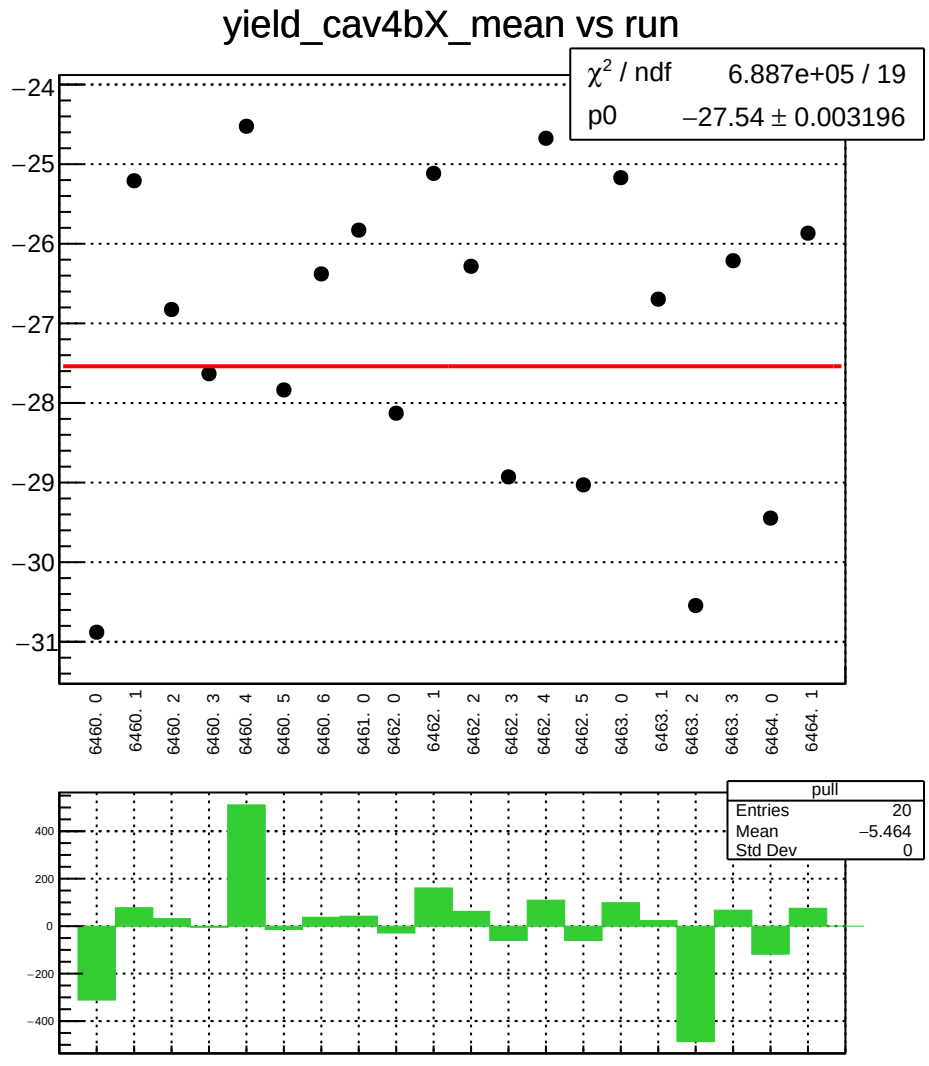

diff_bpmtargetsumY_rms vs run
χ² / ndf 932.6 / 19
p0 7305 ± 11.49
8200
8000
7800
7600
7400
7200
7000
6800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

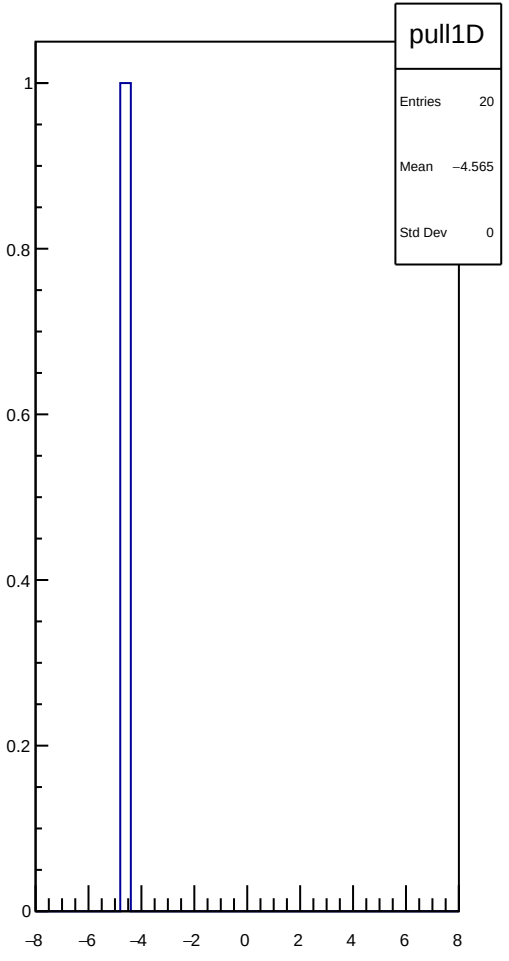

diff_bpmtargetdiffY_mean vs run
χ² / ndf 25.67 / 19
p0 −0.6375 ± 1.733
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

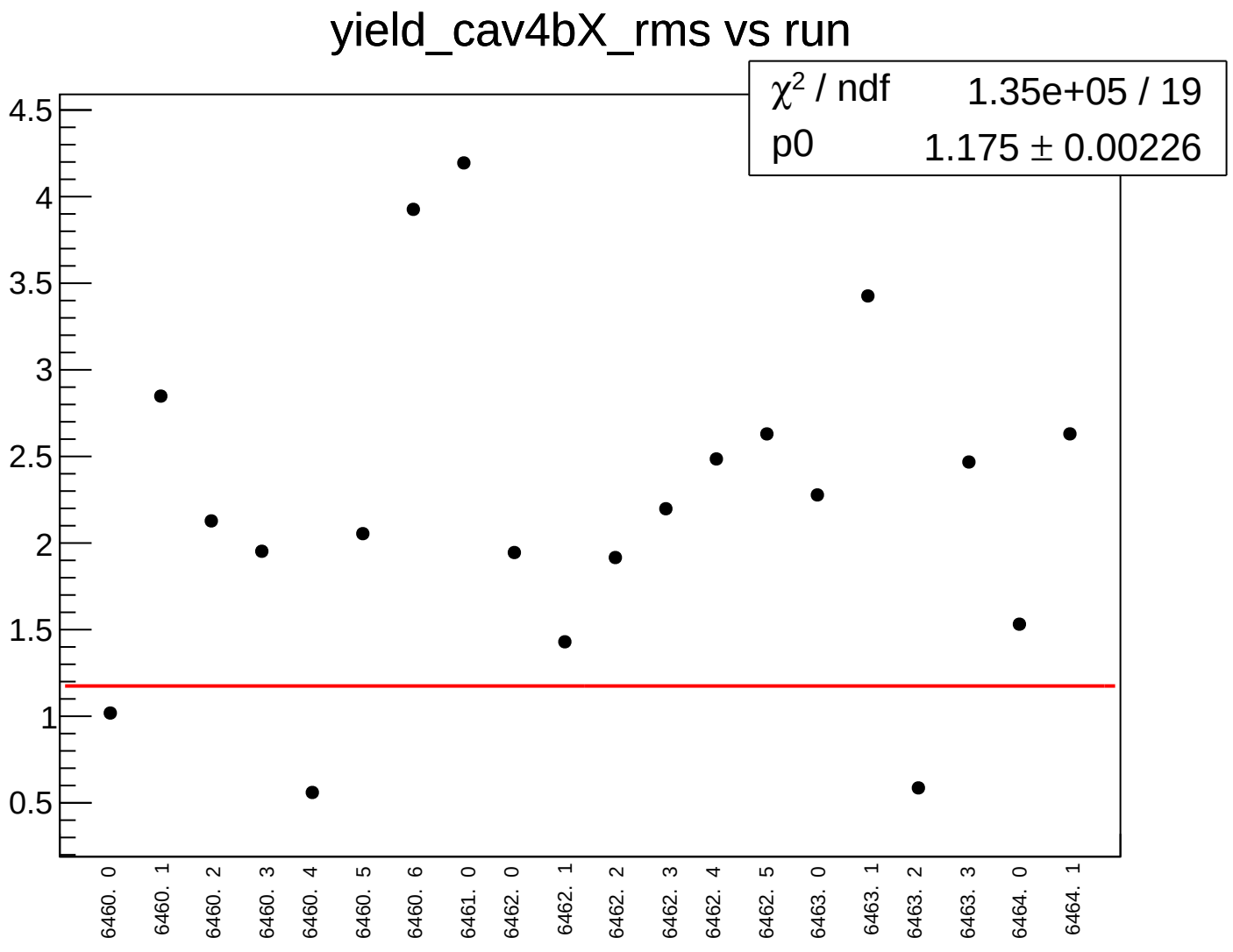

pull
Entries 20
Mean −100.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

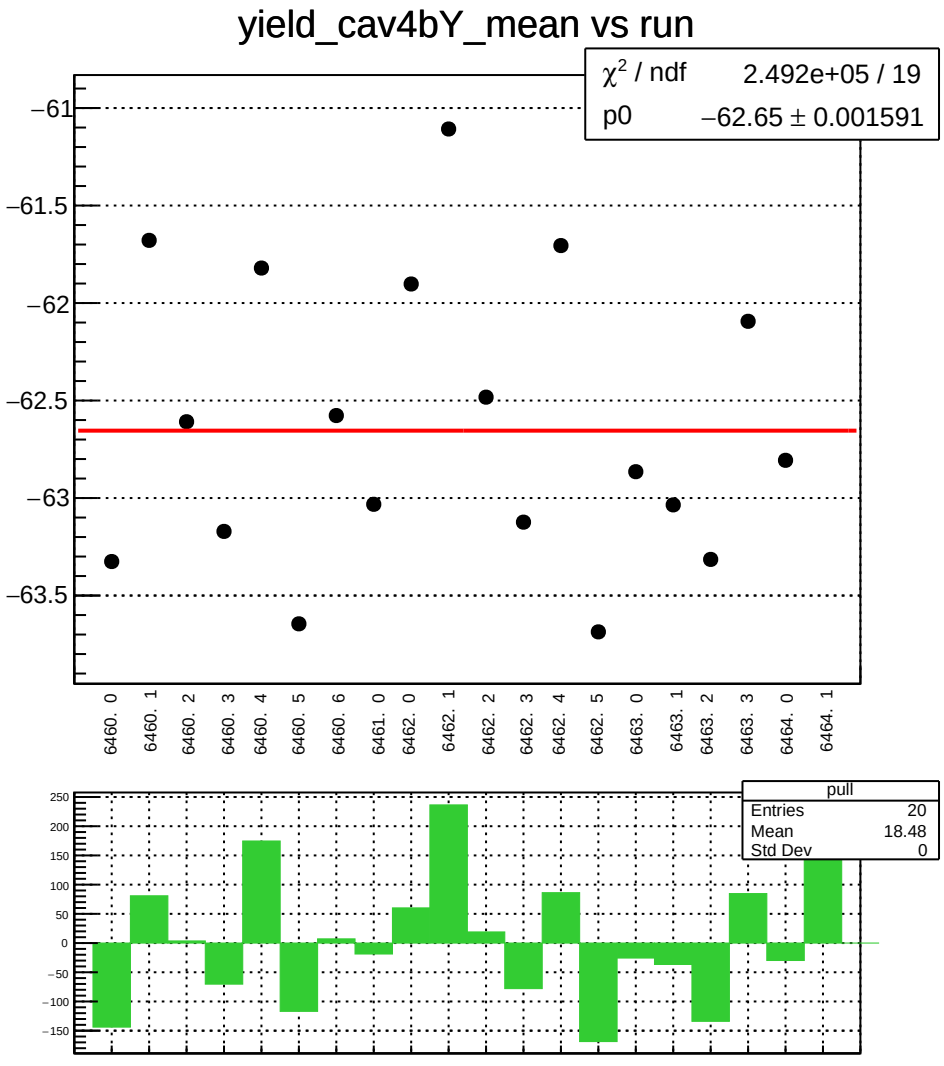

pull1D
Entries 20
Mean −0.02679
Std Dev 1.133
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

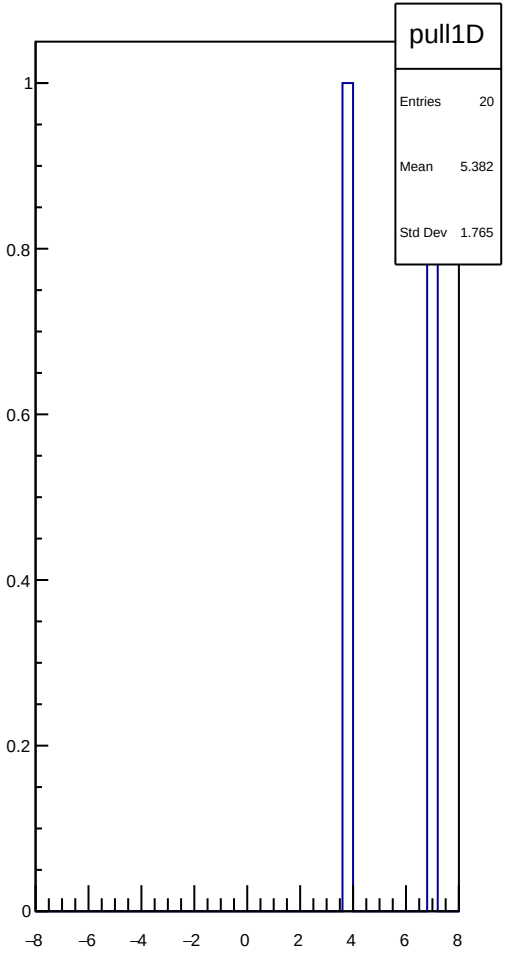

diff_bpmtargetdiffY_rms vs run
χ² / ndf 482.9 / 19
p0 779.4 ± 1.225
840
820
800
780
760
740
720
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

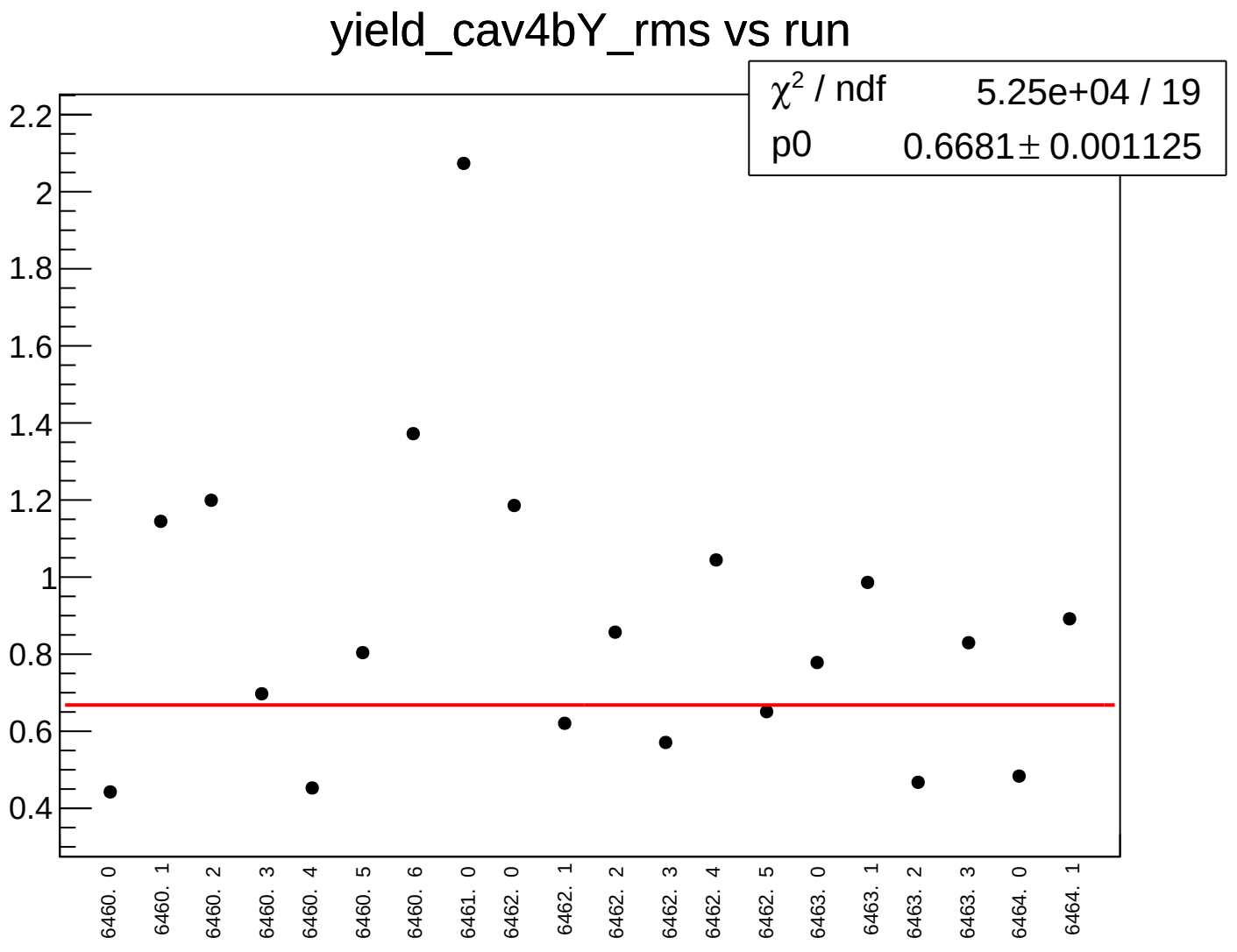

yield_cav4bX_mean vs run
χ² / ndf 6.887e+05 / 19
p0 −27.54 ± 0.003196
−24
−25
−26
−27
−28
−29
−30
−31
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −5.464
Std Dev 0
400
200
0
−200
−400

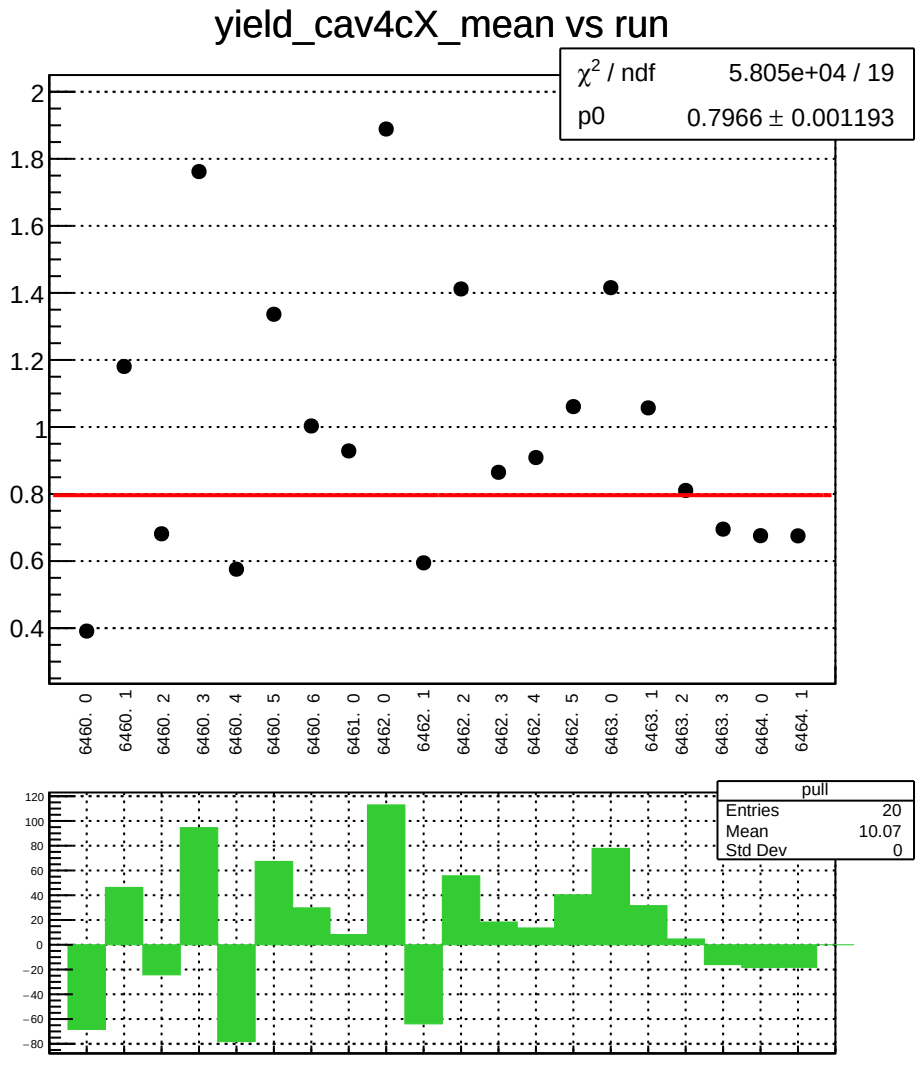

pull1D
Entries 20
Mean −4.565
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

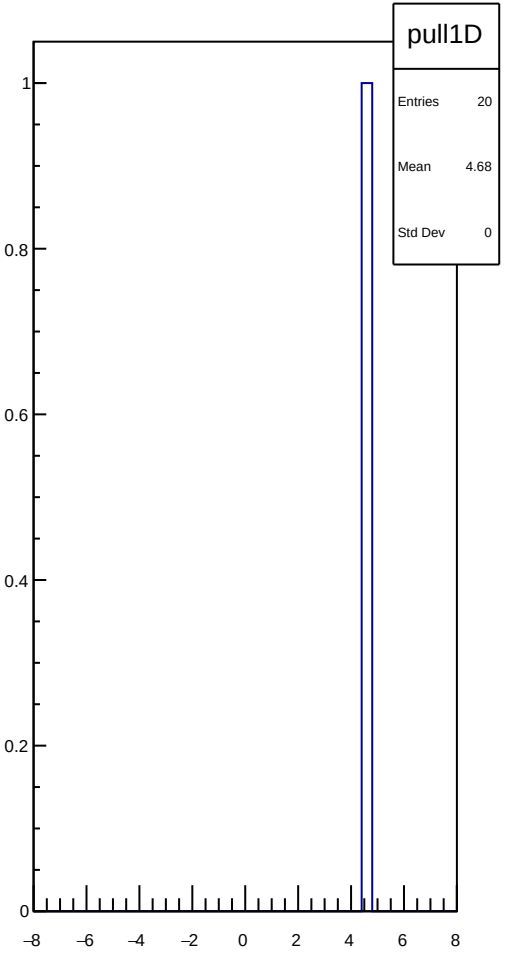

yield_cav4bX_rms vs run
χ² / ndf 1.35e+05 / 19
p0 1.175 ± 0.00226
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

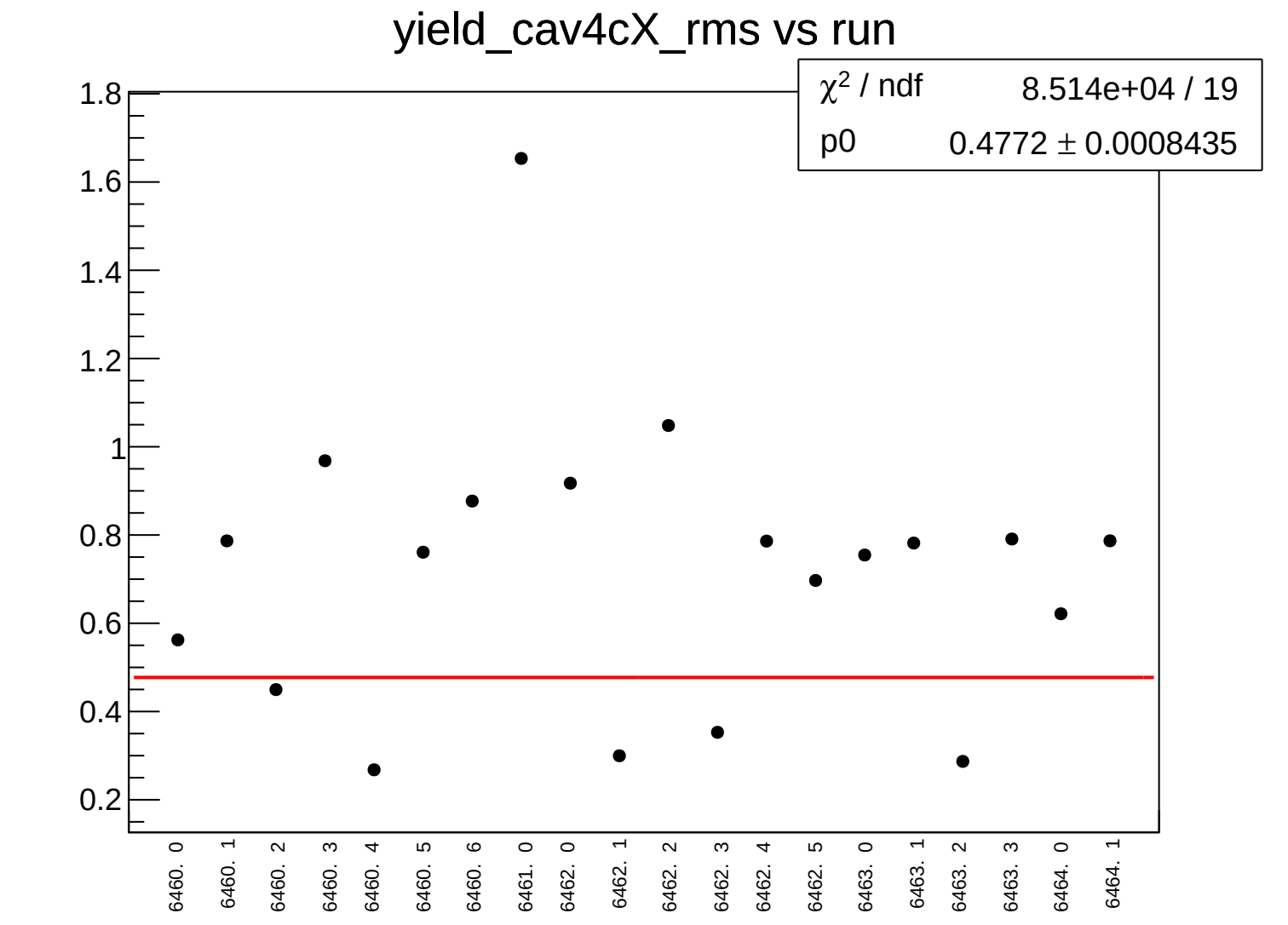

yield_cav4bY_mean vs run
χ² / ndf 2.492e+05 / 19
p0 −62.65 ± 0.001591
−61
−61.5
−62
−62.5
−63
−63.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.48
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

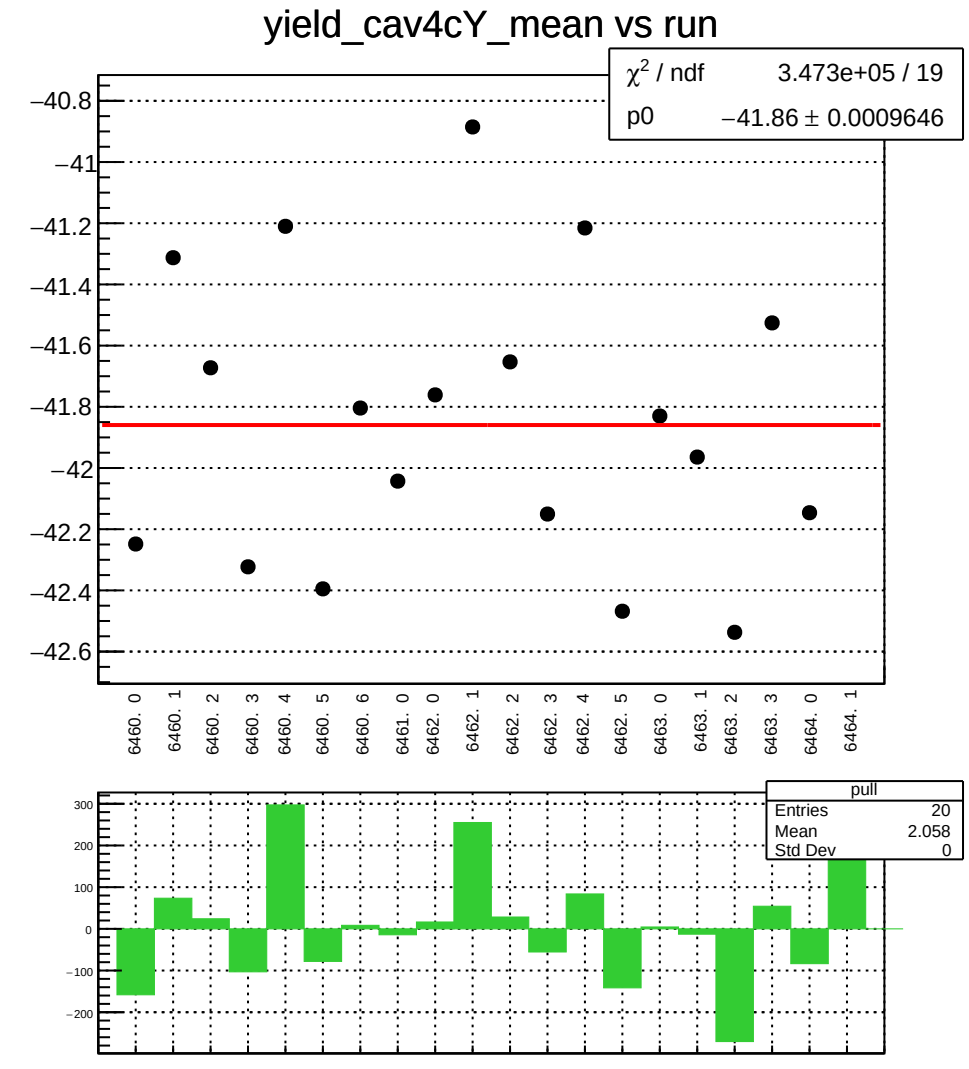

pull1D
Entries 20
Mean 5.382
Std Dev 1.765
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

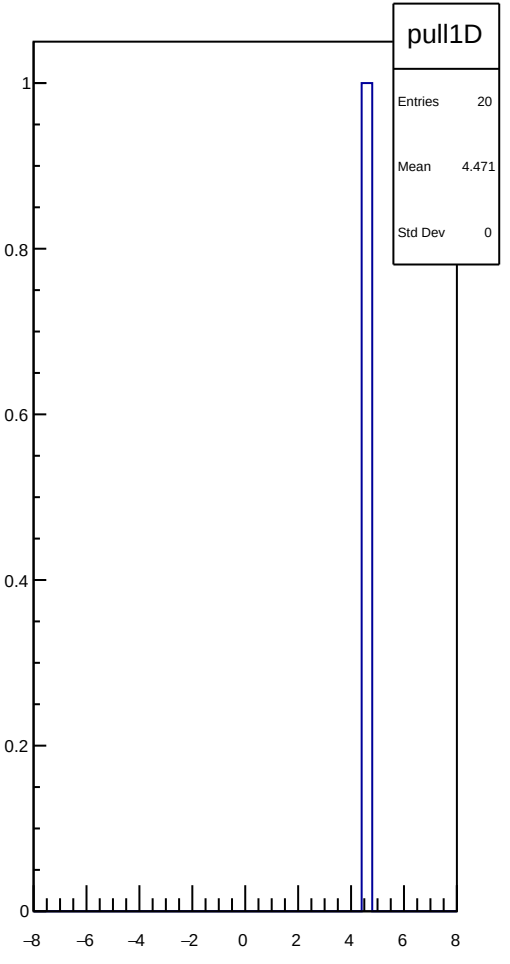

yield_cav4bY_rms vs run
χ² / ndf 5.25e+04 / 19
p0 0.6681 ± 0.001125
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

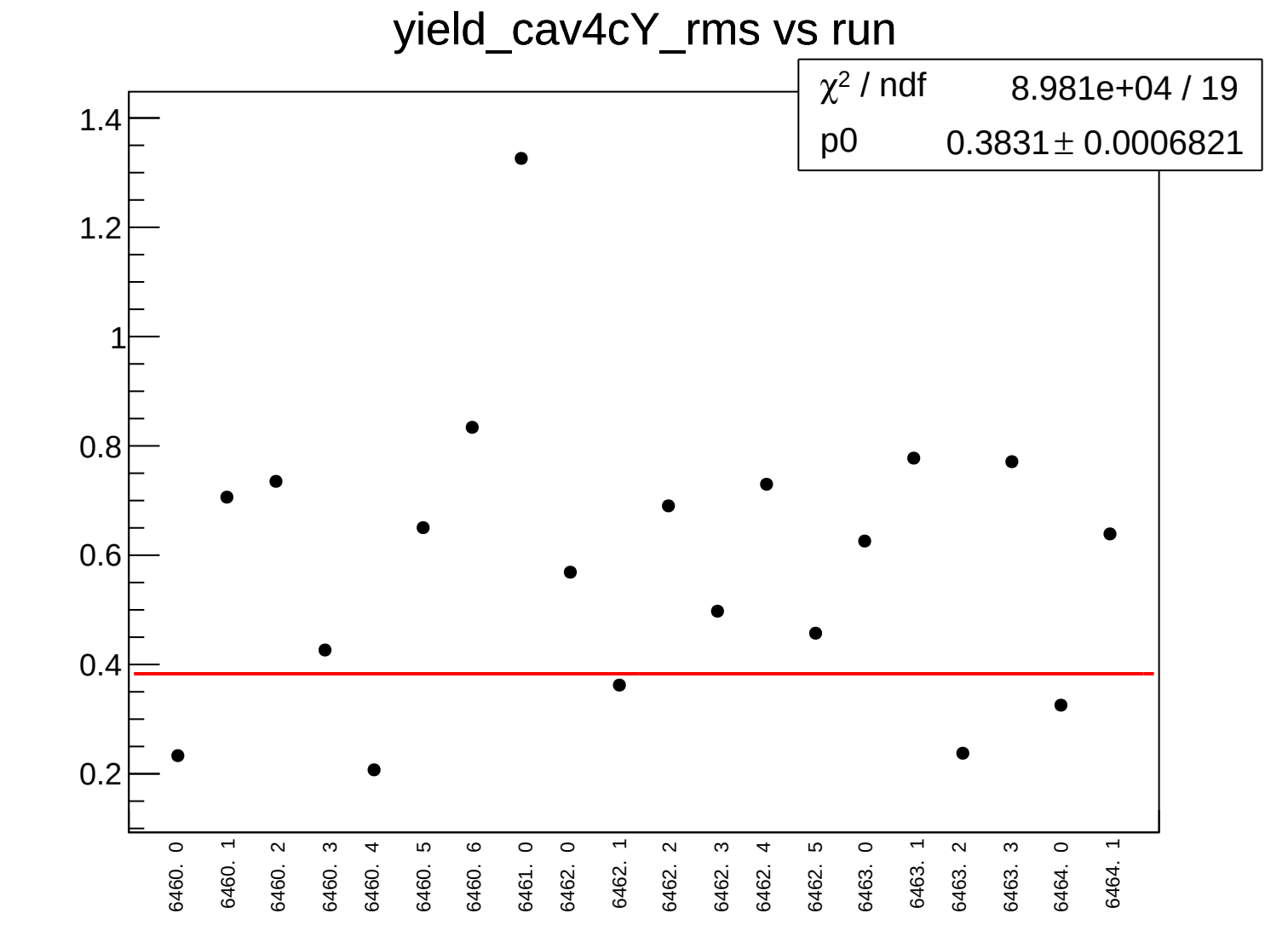

yield_cav4cX_mean vs run
χ² / ndf 5.805e+04 / 19
p0 0.7966 ± 0.001193
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10.07
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

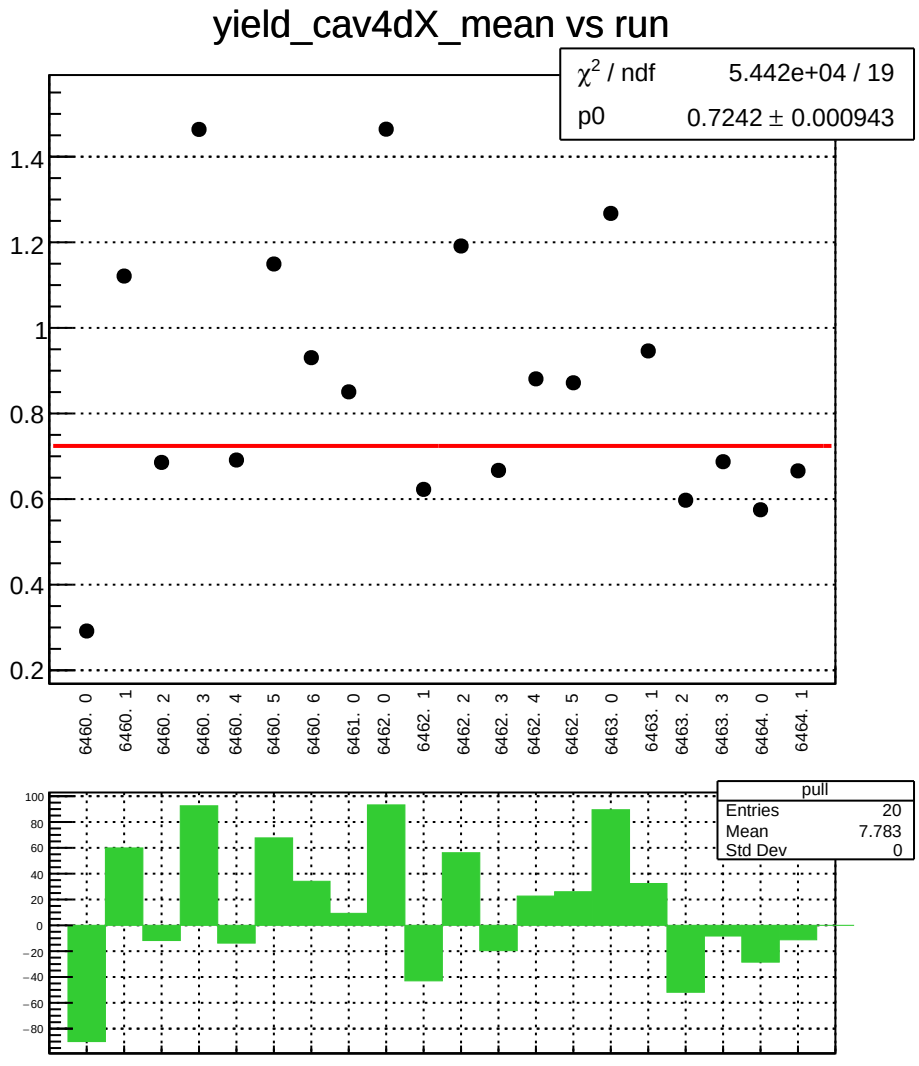

pull1D
Entries 20
Mean 4.68
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

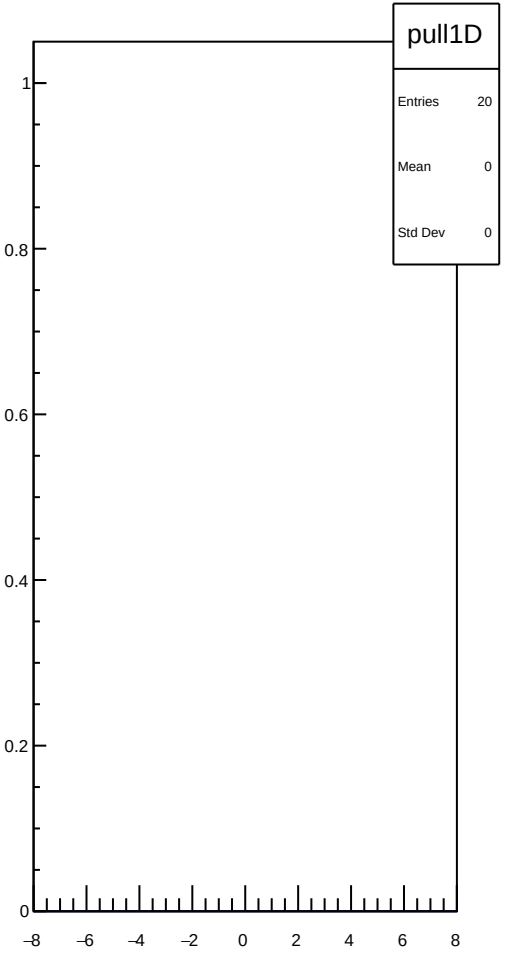

yield_cav4cX_rms vs run
χ² / ndf 8.514e+04 / 19
p0 0.4772 ± 0.0008435
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

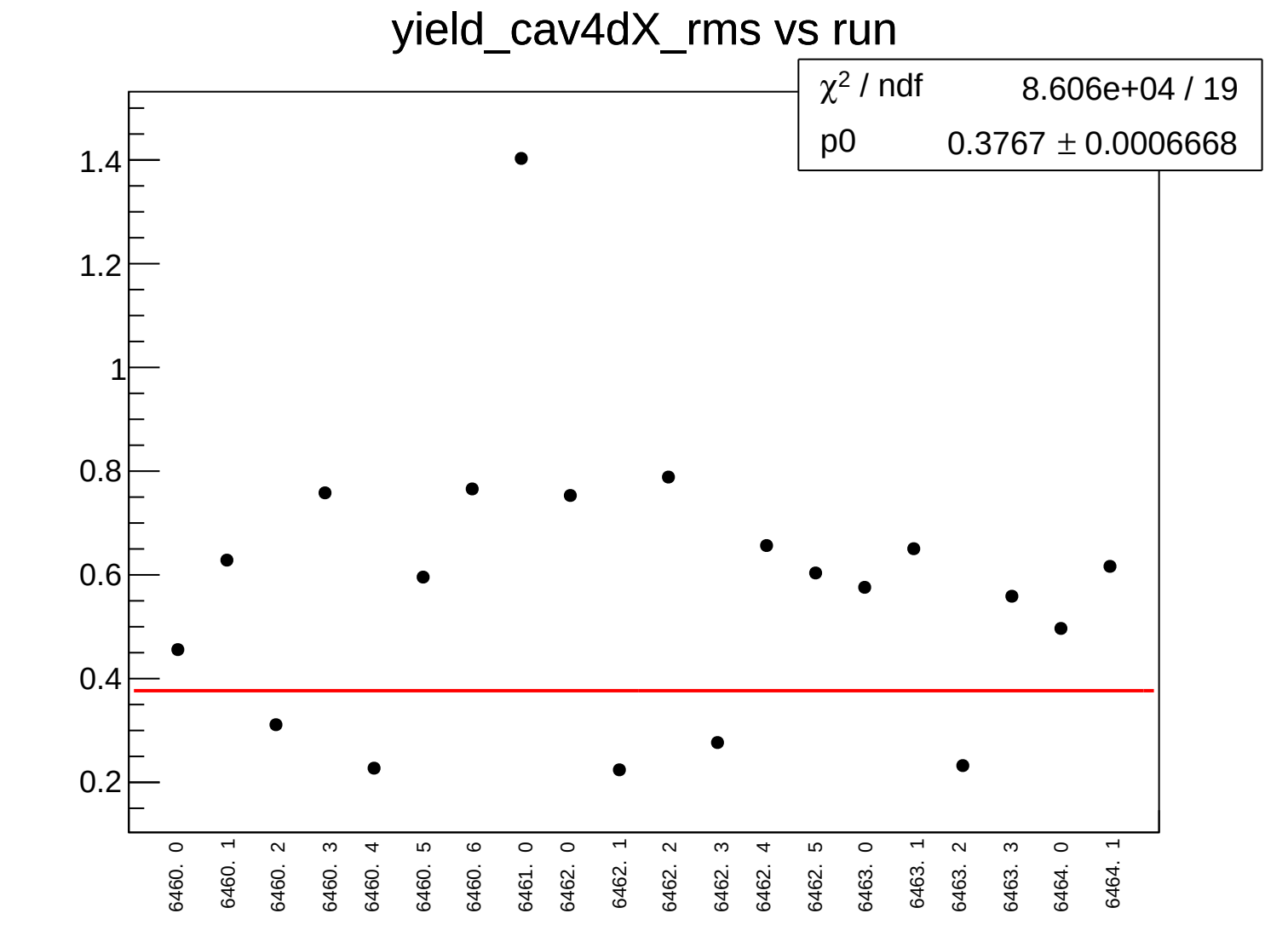

yield_cav4cY_mean vs run
χ² / ndf 3.473e+05 / 19
p0 −41.86 ± 0.0009646
−40.8
−41
−41.2
−41.4
−41.6
−41.8
−42
−42.2
−42.4
−42.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.058
Std Dev 0
300
200
100
0
−100
−200

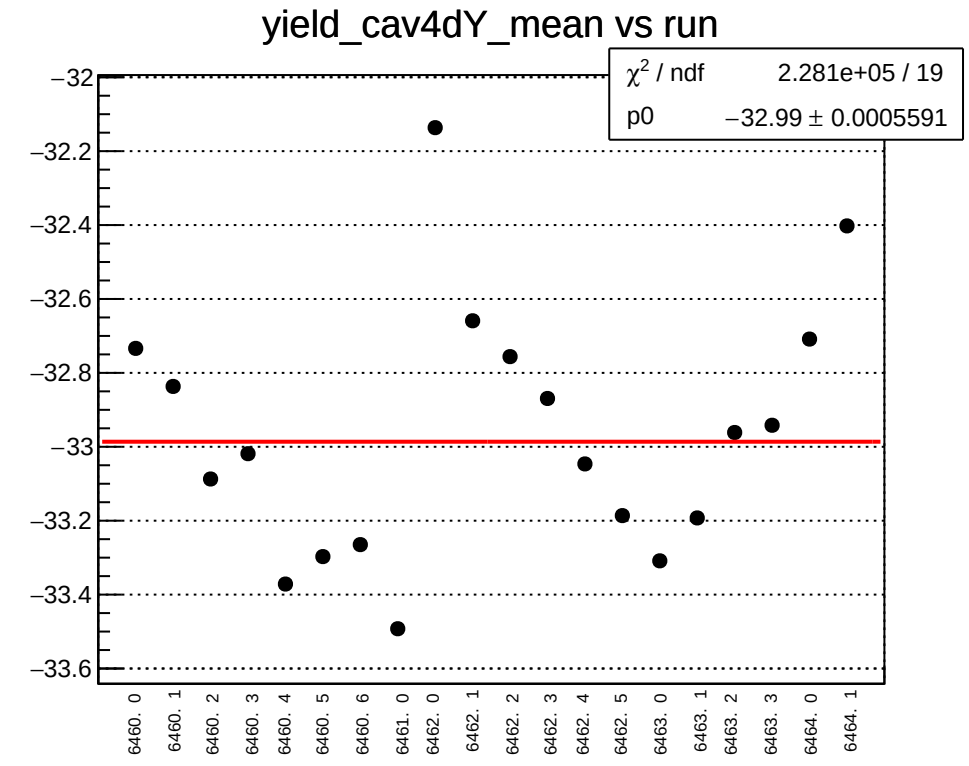

pull1D
Entries 20
Mean 4.471
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

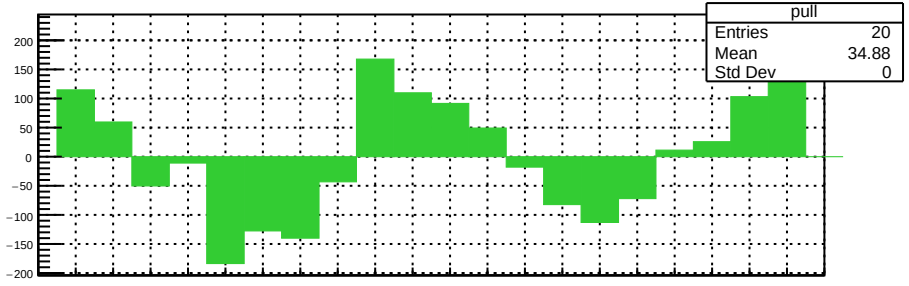

yield_cav4cY_rms vs run
χ² / ndf 8.981e+04 / 19
p0 0.3831 ± 0.0006821
1.4
1.2
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

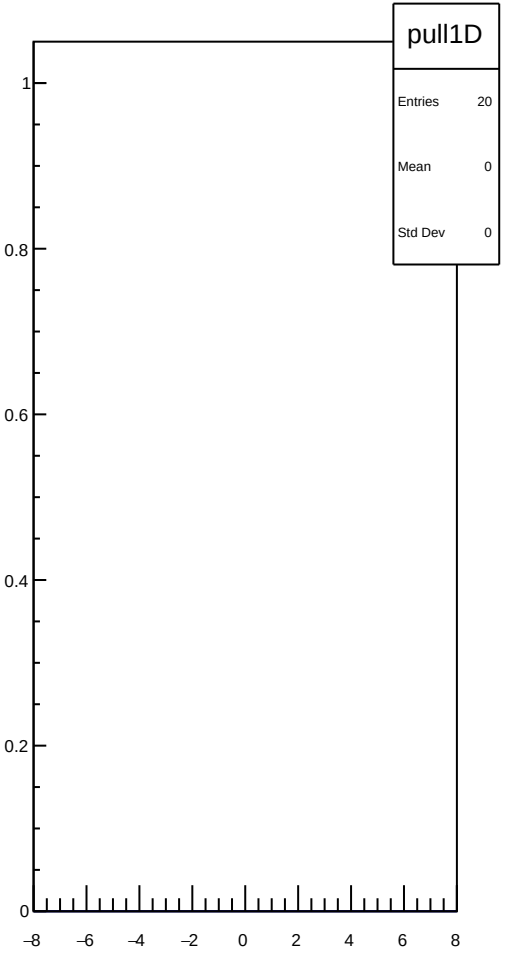

yield_cav4dX_mean vs run
χ² / ndf 5.442e+04 / 19
p0 0.7242 ± 0.000943
1.4
1.2
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.783
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

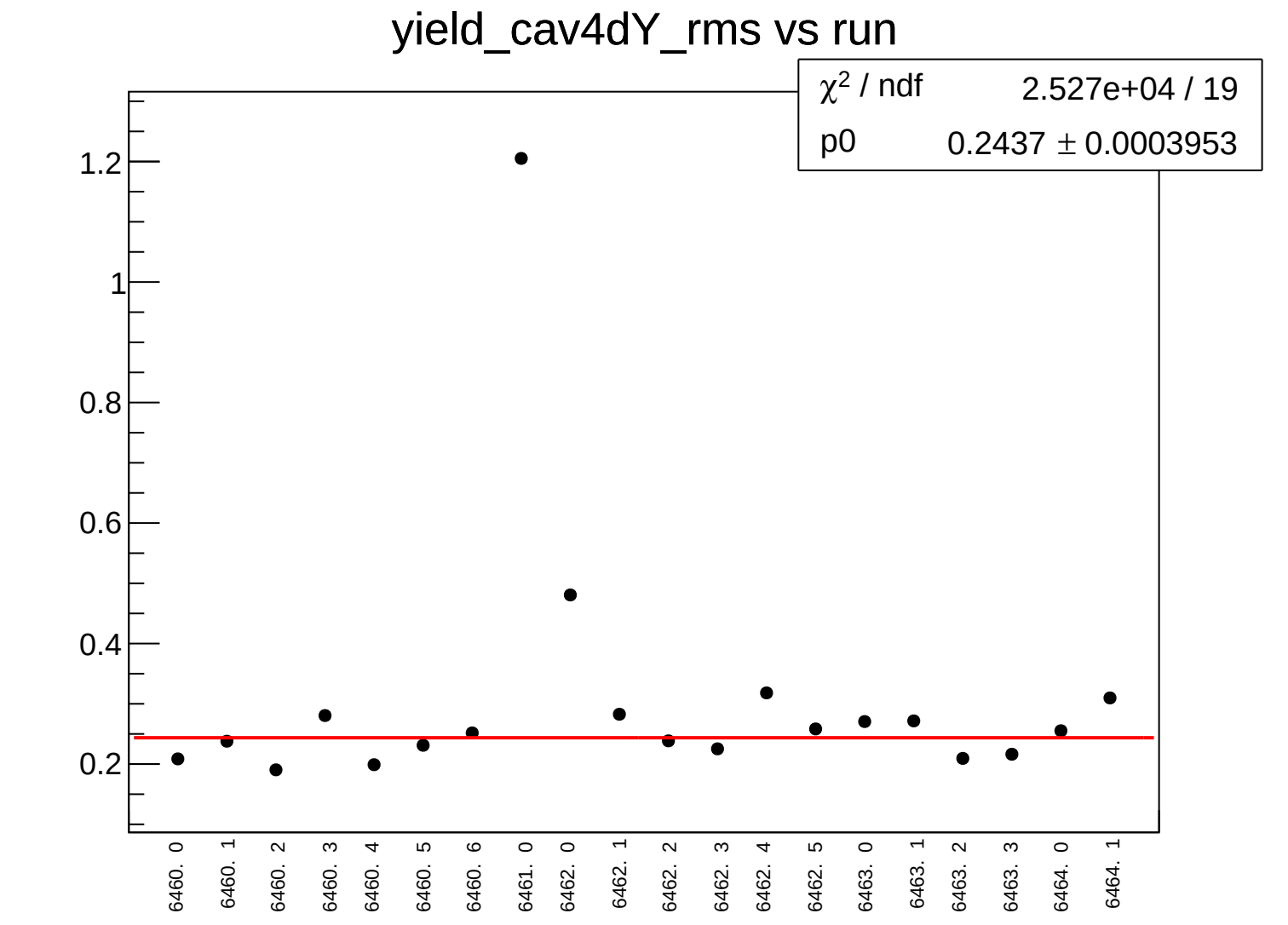

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

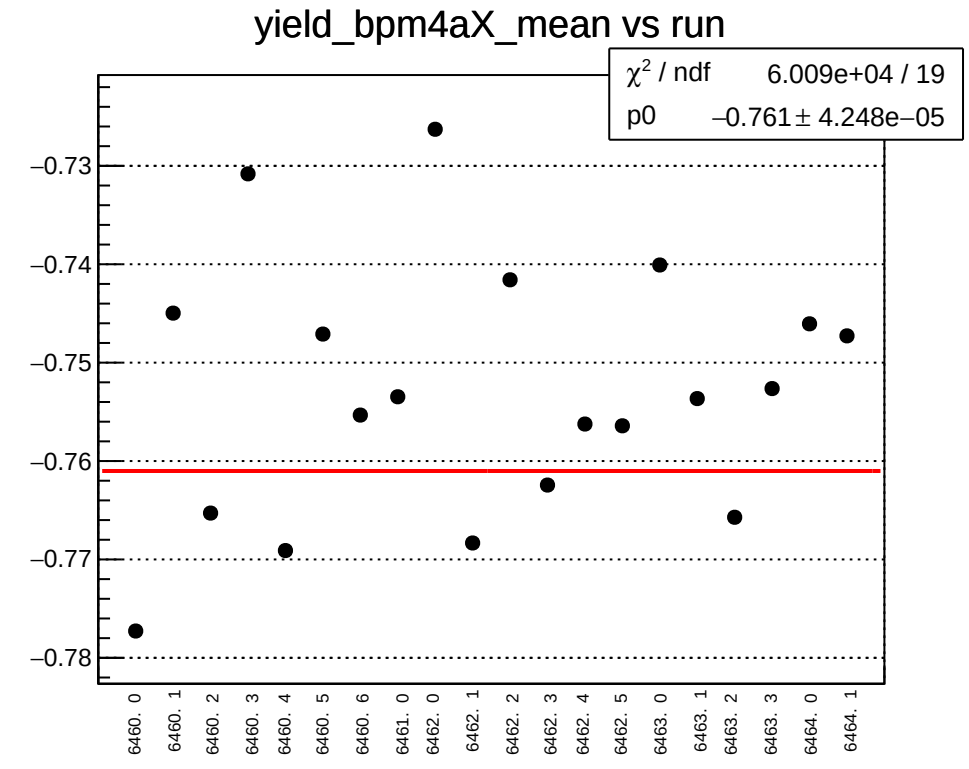

yield_cav4dX_rms vs run
χ² / ndf 8.606e+04 / 19
p0 0.3767 ± 0.0006668
1.4
1.2
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

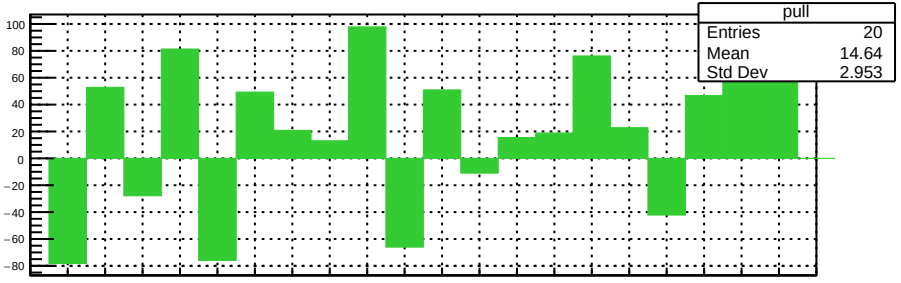

yield_cav4dY_mean vs run
χ² / ndf 2.281e+05 / 19
p0 −32.99 ± 0.0005591
−32
−32.2
−32.4
−32.6
−32.8
−33
−33.2
−33.4
−33.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

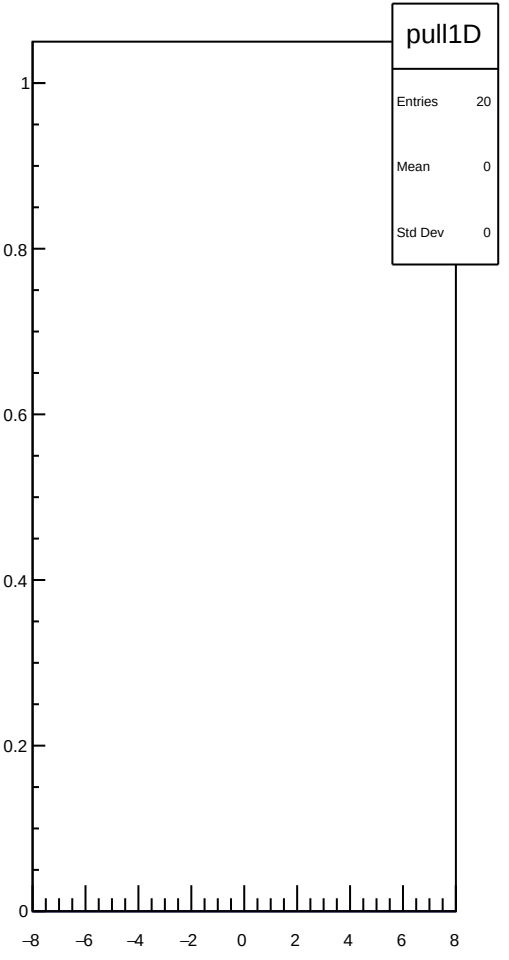

pull
Entries 20
Mean 34.88
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

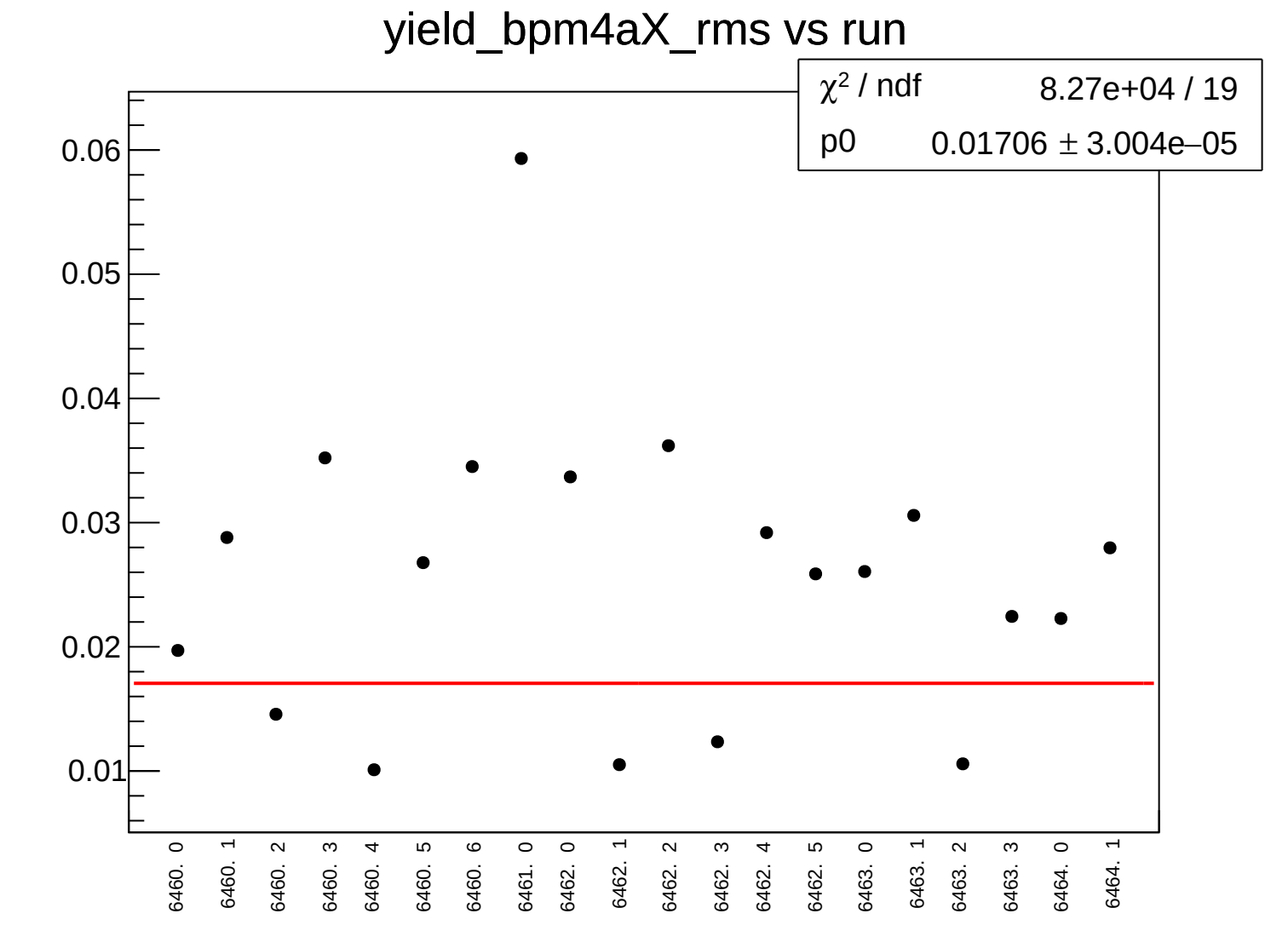

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

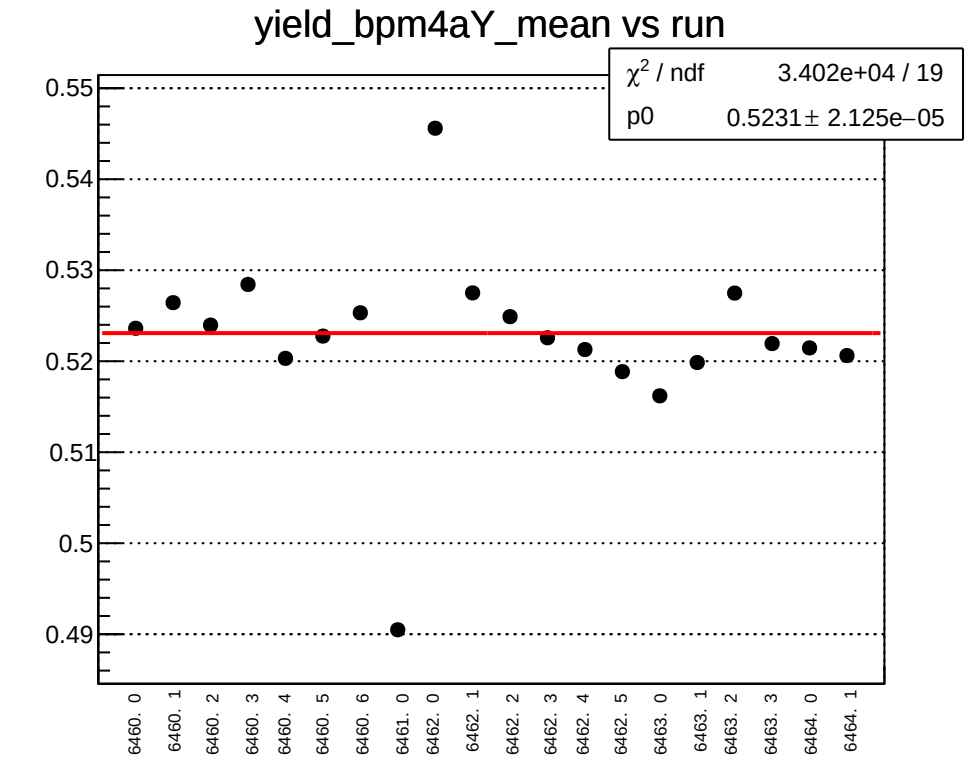

yield_cav4dY_rms vs run
χ² / ndf 2.527e+04 / 19
p0 0.2437 ± 0.0003953
1.2
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

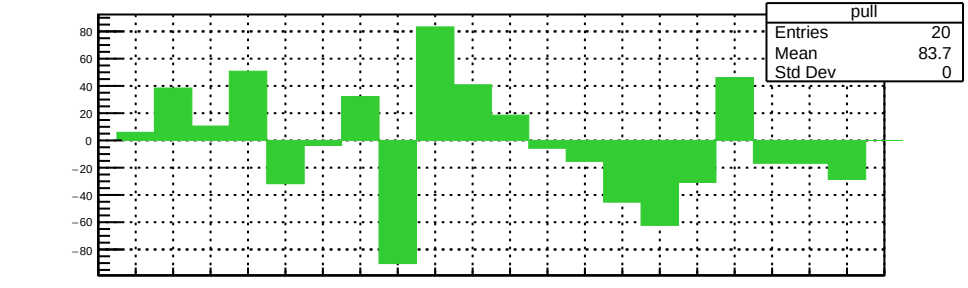

yield_bpm4aX_mean vs run
χ² / ndf 6.009e+04 / 19
p0 −0.761 ± 4.248e−05
−0.73
−0.74
−0.75
−0.76
−0.77
−0.78
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

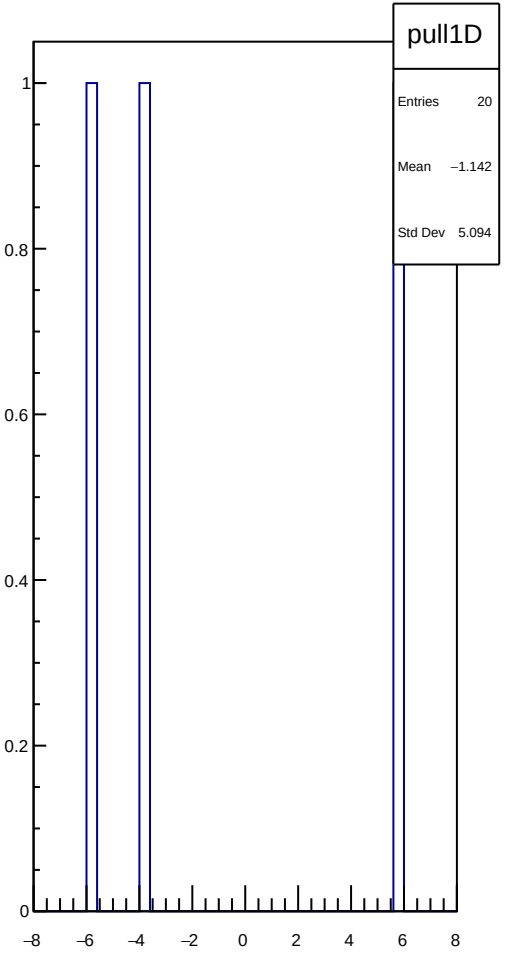

pull
Entries 20
Mean 14.64
Std Dev 2.953
100
80
60
40
20
0
−20
−40
−60
−80

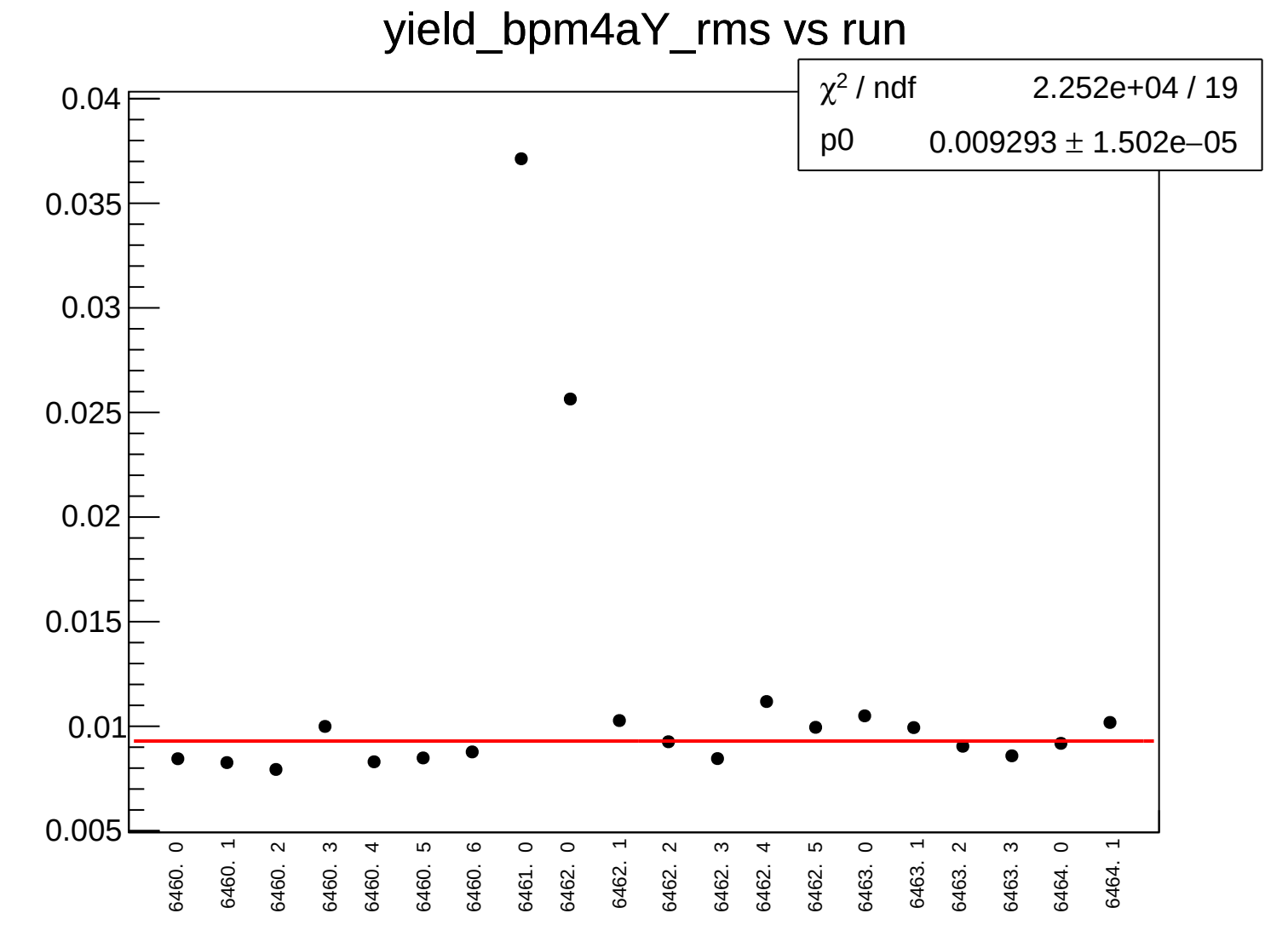

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

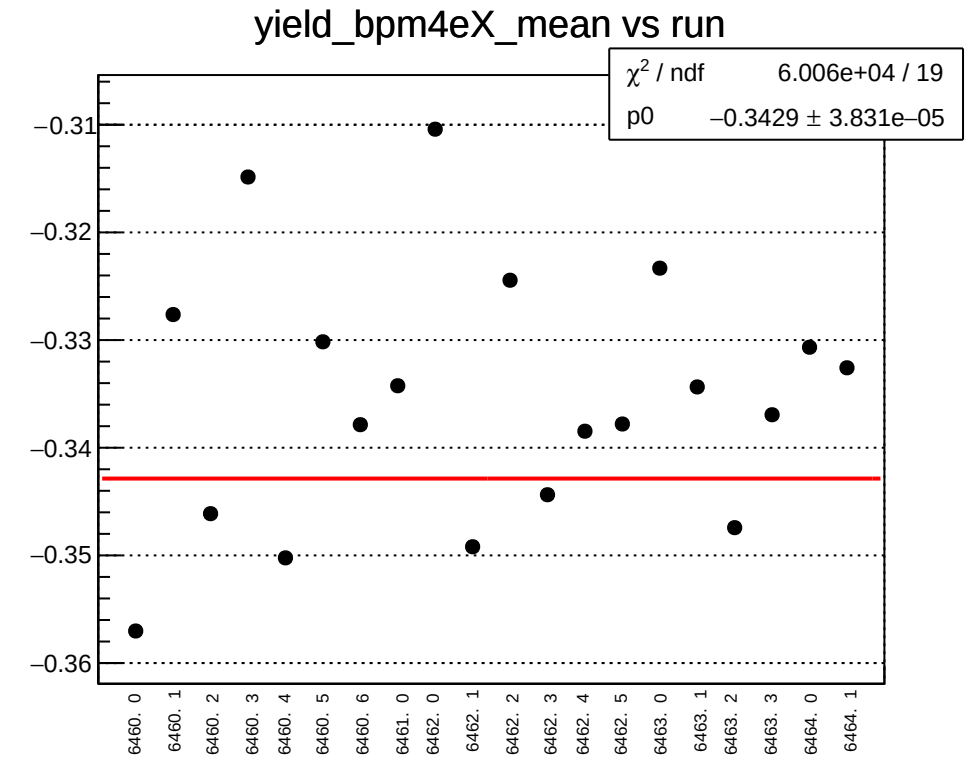

yield_bpm4aX_rms vs run
χ² / ndf 8.27e+04 / 19
p0 0.01706 ± 3.004e–05
0.06
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

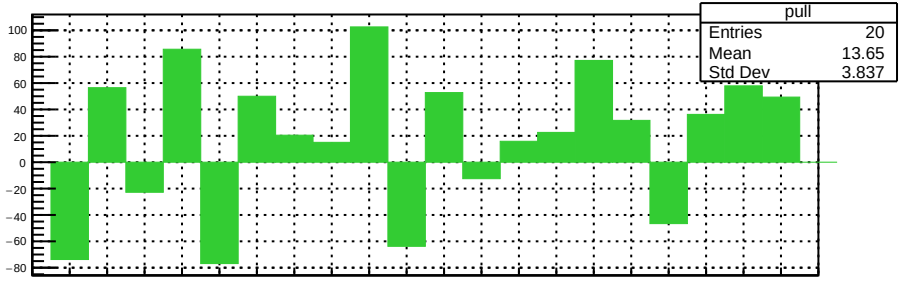

yield_bpm4aY_mean vs run
χ² / ndf 3.402e+04 / 19
p0 0.5231 ± 2.125e−05
0.55
0.54
0.53
0.52
0.51
0.5
0.49
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

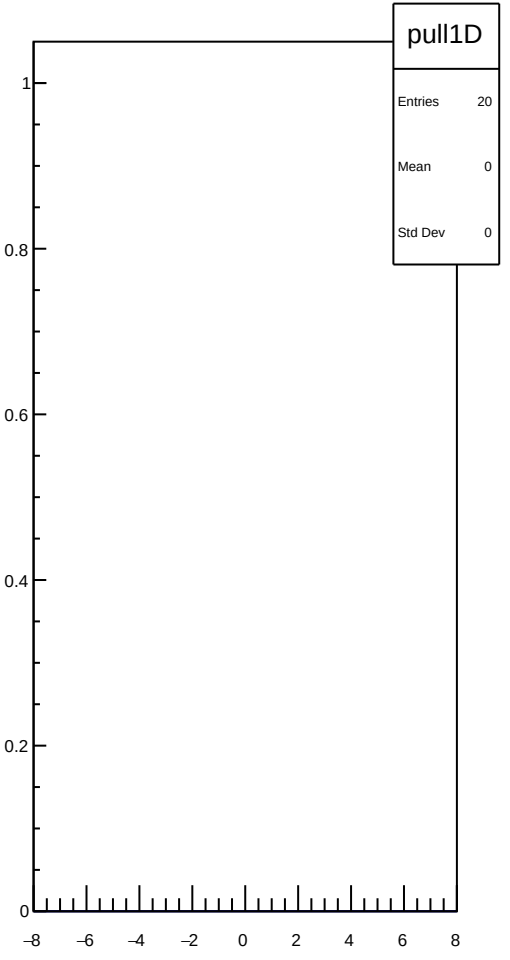

pull
Entries 20
Mean 83.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

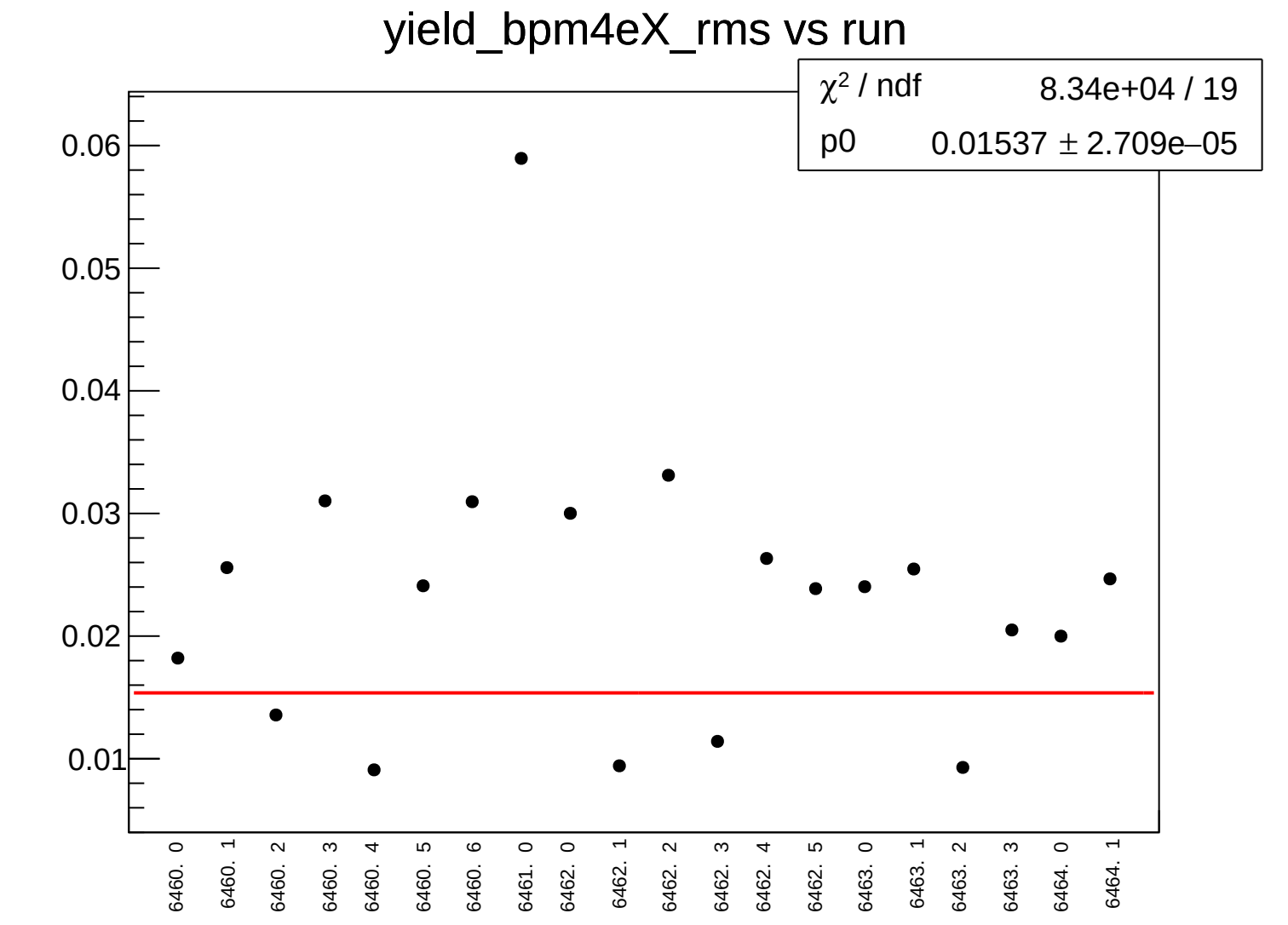

pull1D
Entries 20
Mean −1.142
Std Dev 5.094
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

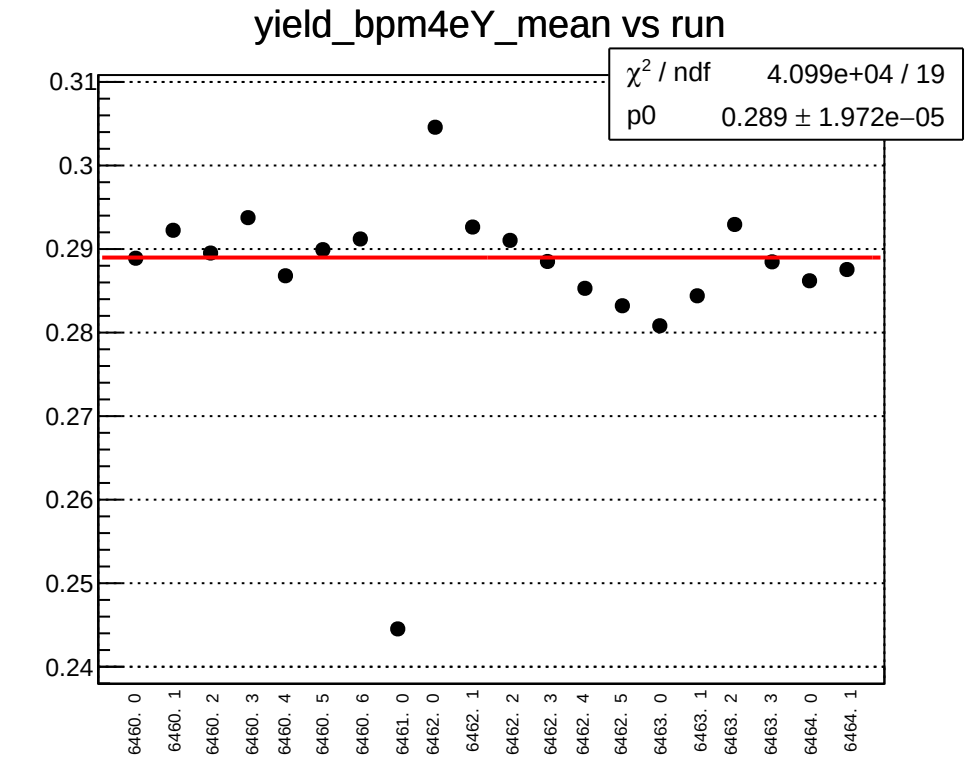

yield_bpm4aY_rms vs run
χ² / ndf 2.252e+04 / 19
p0 0.009293 ± 1.502e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

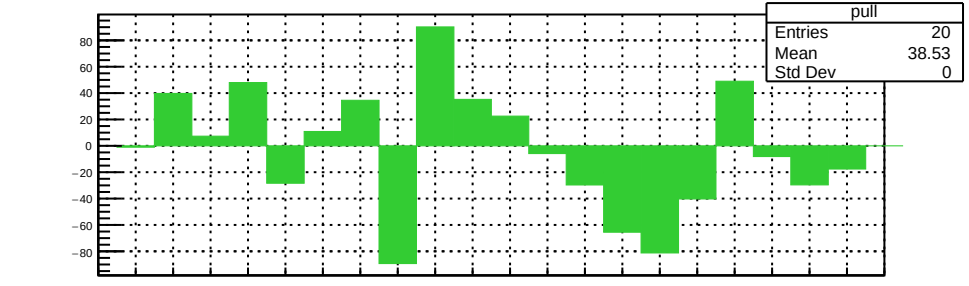

yield_bpm4eX_mean vs run
χ² / ndf 6.006e+04 / 19
p0 −0.3429 ± 3.831e−05
−0.31
−0.32
−0.33
−0.34
−0.35
−0.36
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

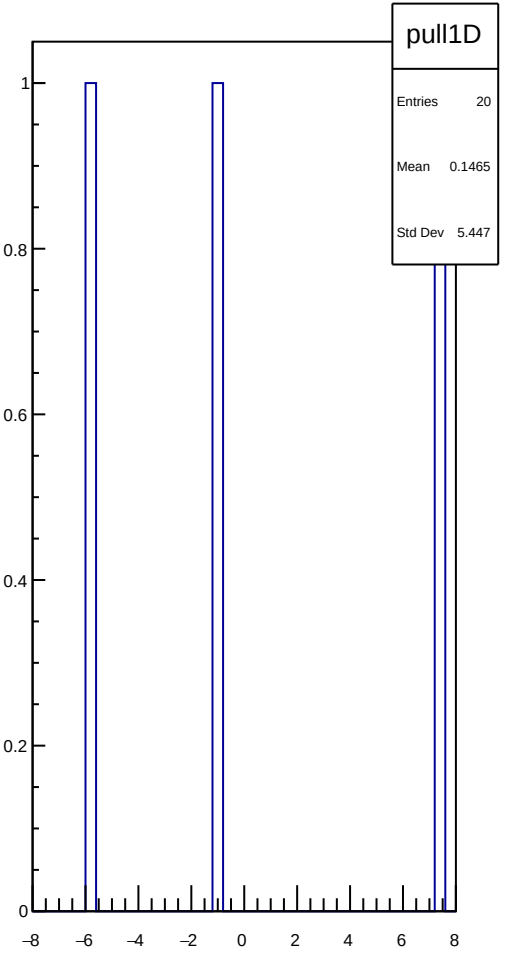

pull
Entries 20
Mean 13.65
Std Dev 3.837
100
80
60
40
20
0
−20
−40
−60
−80

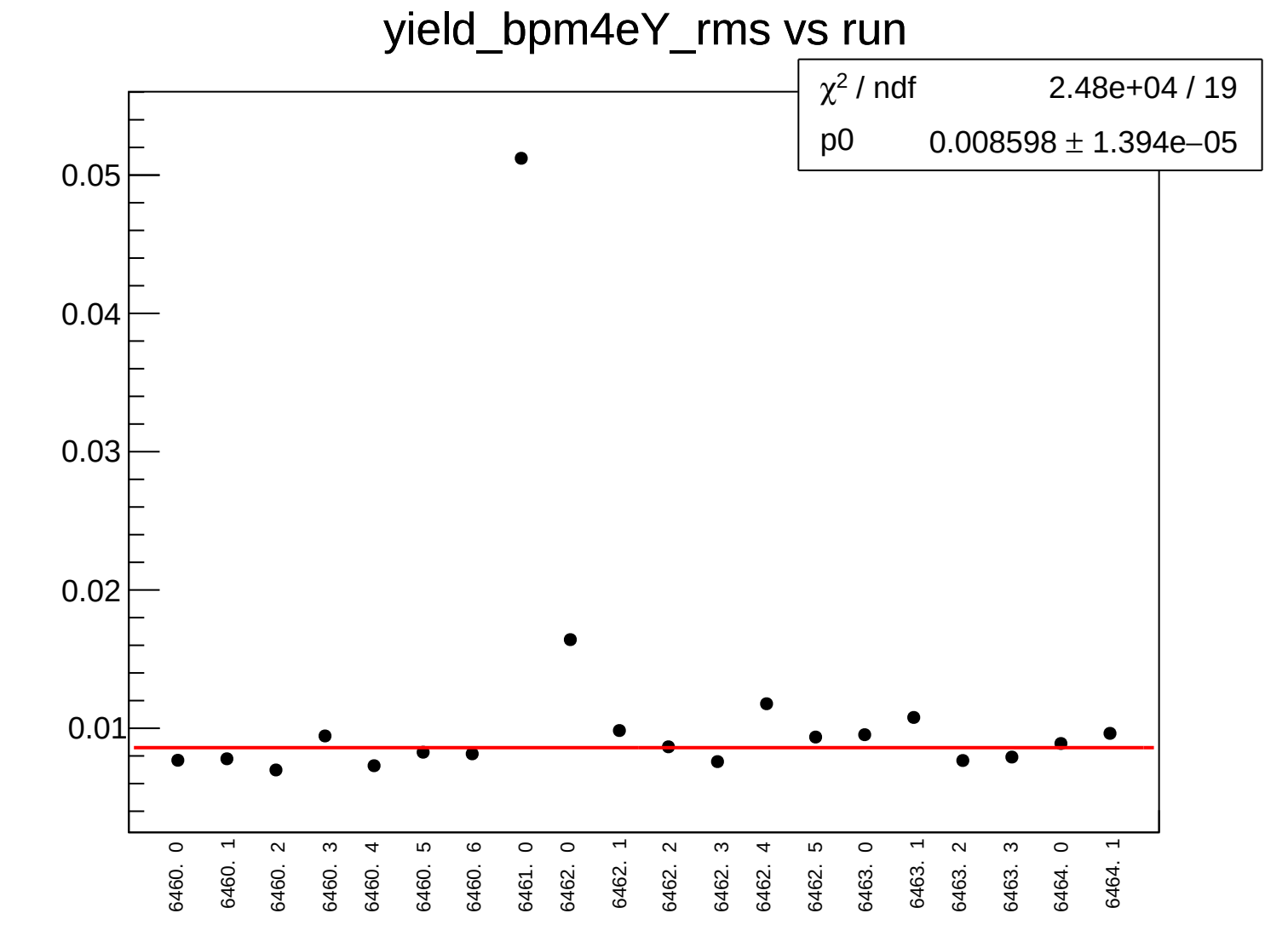

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

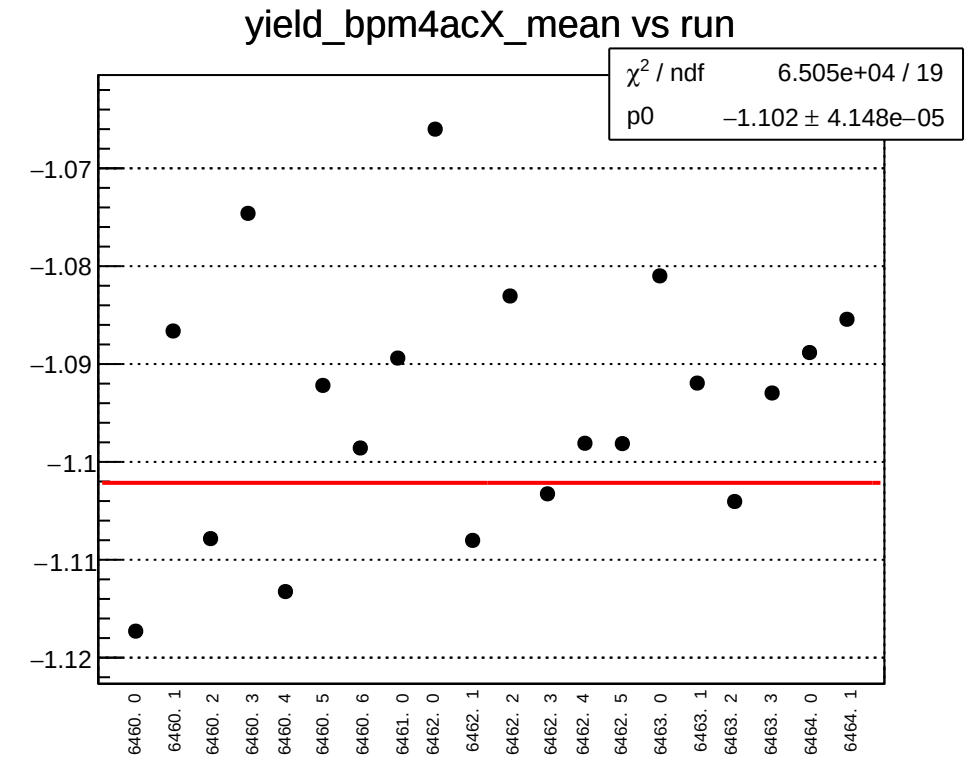

yield_bpm4eX_rms vs run
χ² / ndf 8.34e+04 / 19
p0 0.01537 ± 2.709e–05
0.06
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

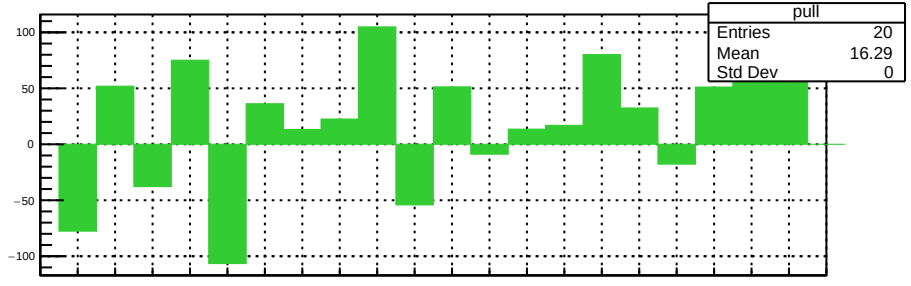

yield_bpm4eY_mean vs run
χ² / ndf 4.099e+04 / 19
p0 0.289 ± 1.972e−05
0.31
0.3
0.29
0.28
0.27
0.26
0.25
0.24
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

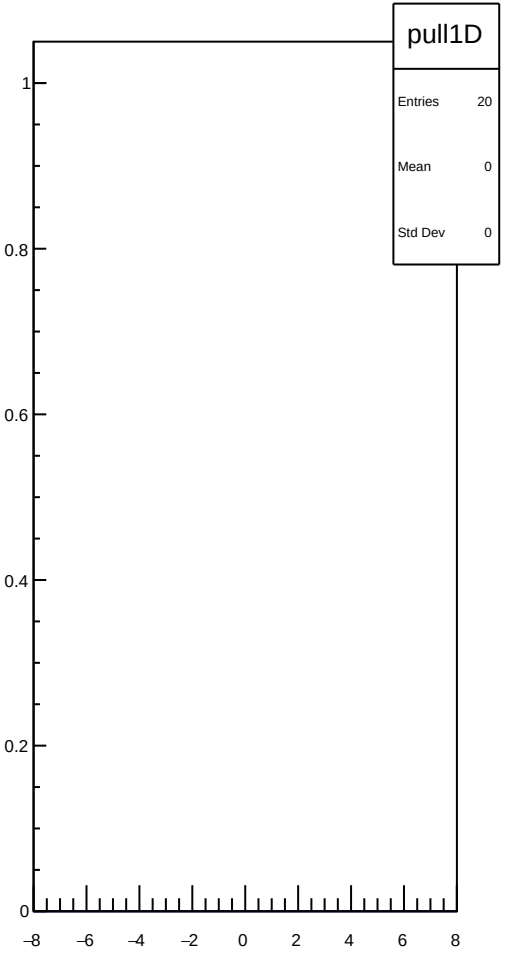

pull
Entries 20
Mean 38.53
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

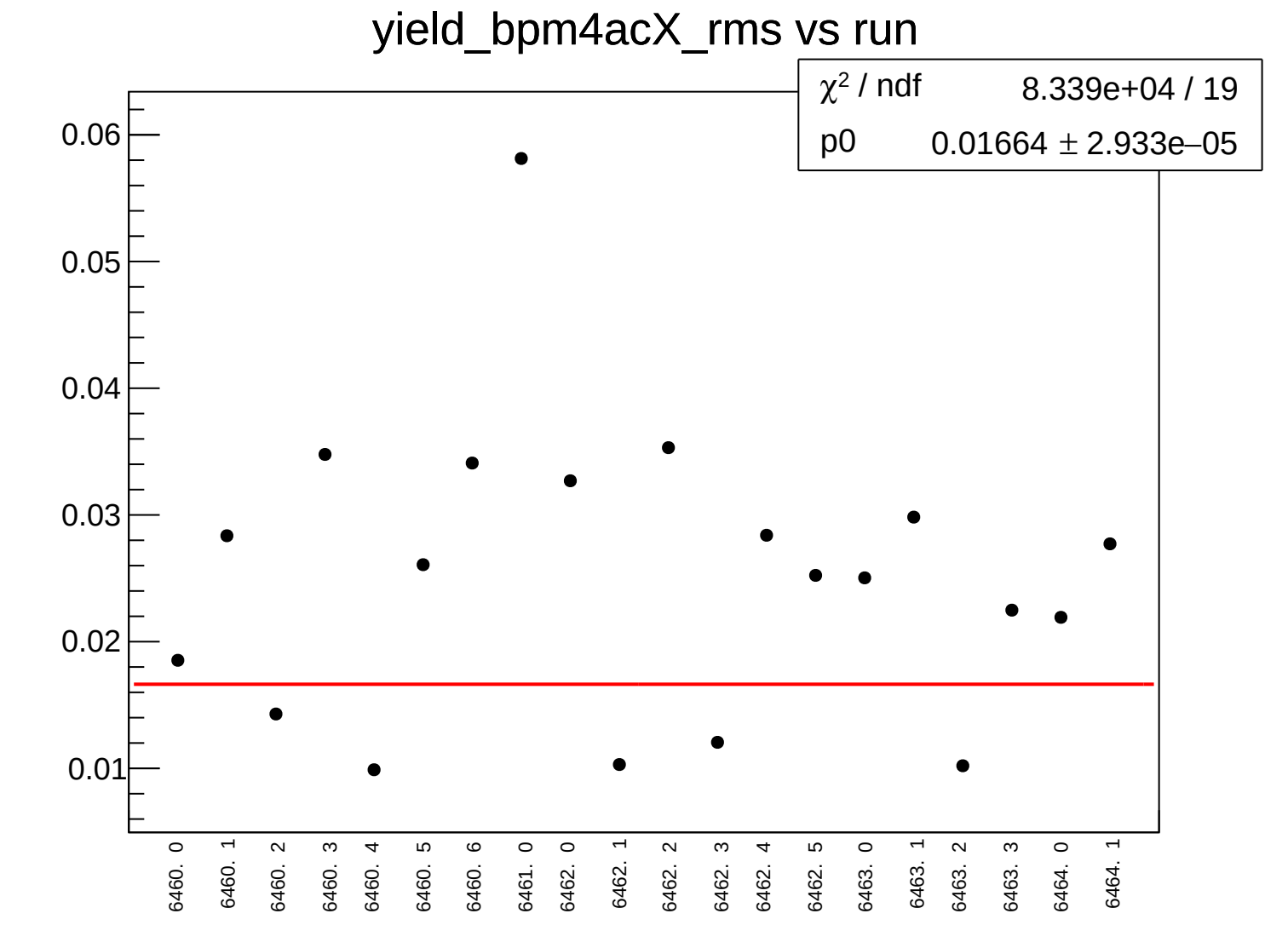

pull1D
Entries 20
Mean 0.1465
Std Dev 5.447
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

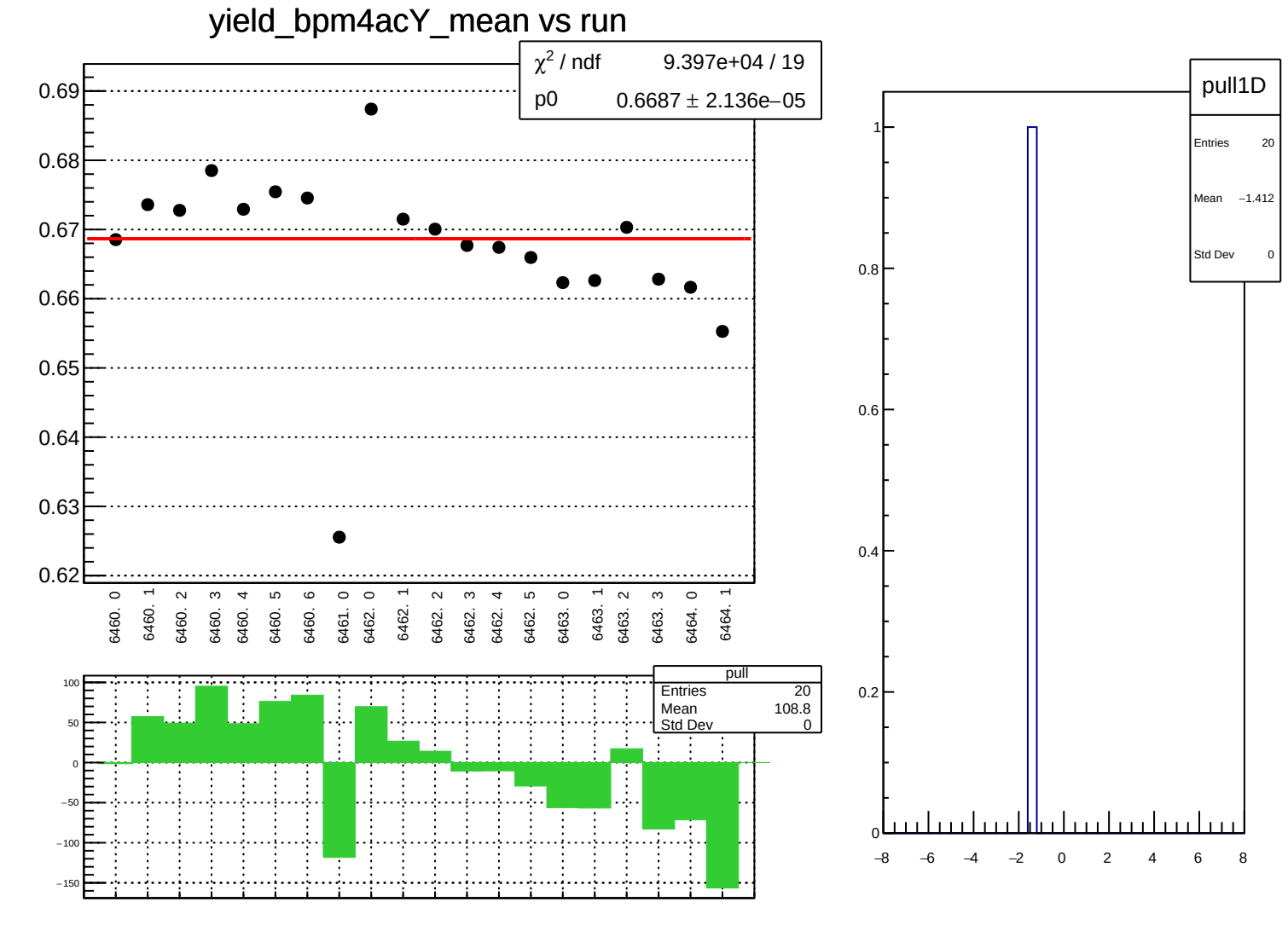

yield_bpm4eY_rms vs run
χ² / ndf 2.48e+04 / 19
p0 0.008598 ± 1.394e−05
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

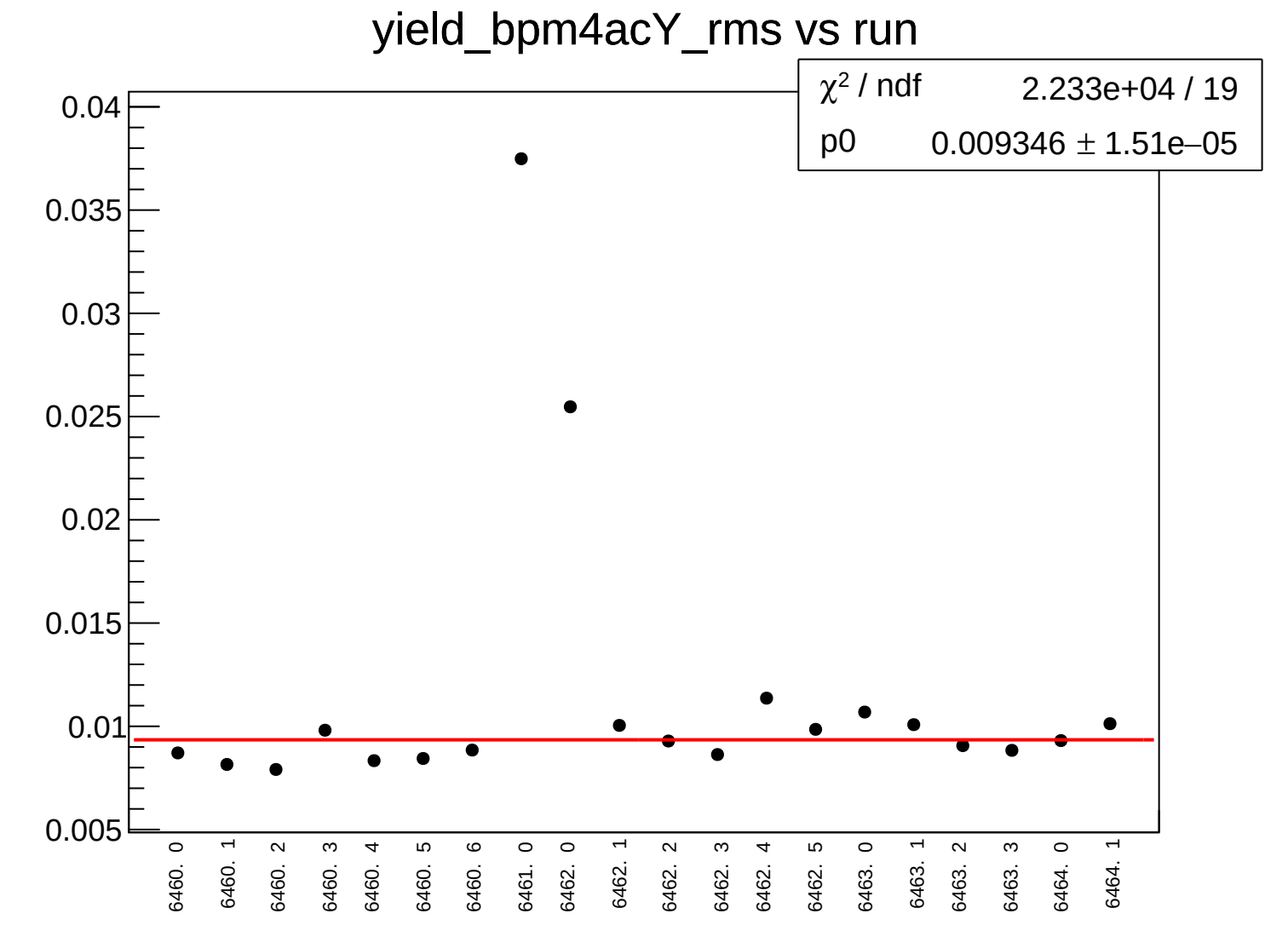

yield_bpm4acX_mean vs run
χ² / ndf 6.505e+04 / 19
p0 −1.102 ± 4.148e−05
−1.07
−1.08
−1.09
−1.1
−1.11
−1.12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

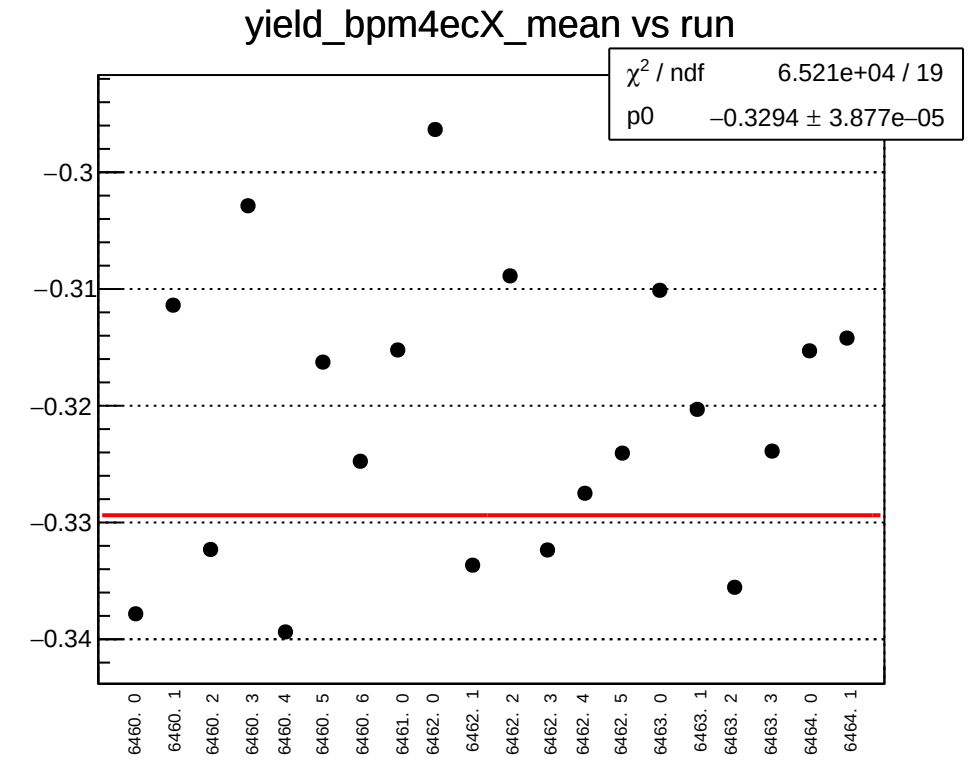

pull
Entries 20
Mean 16.29
Std Dev 0
100
50
0
−50
−100

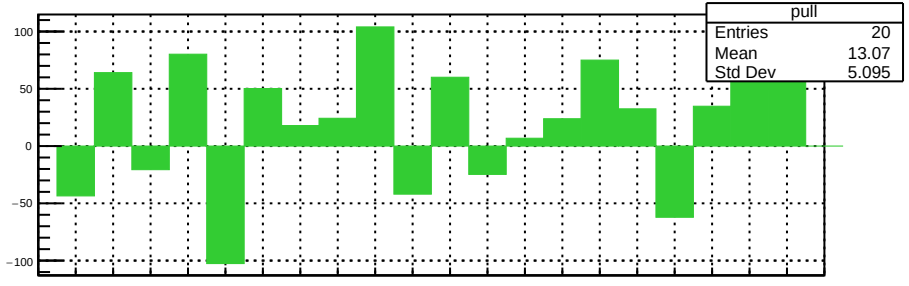

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

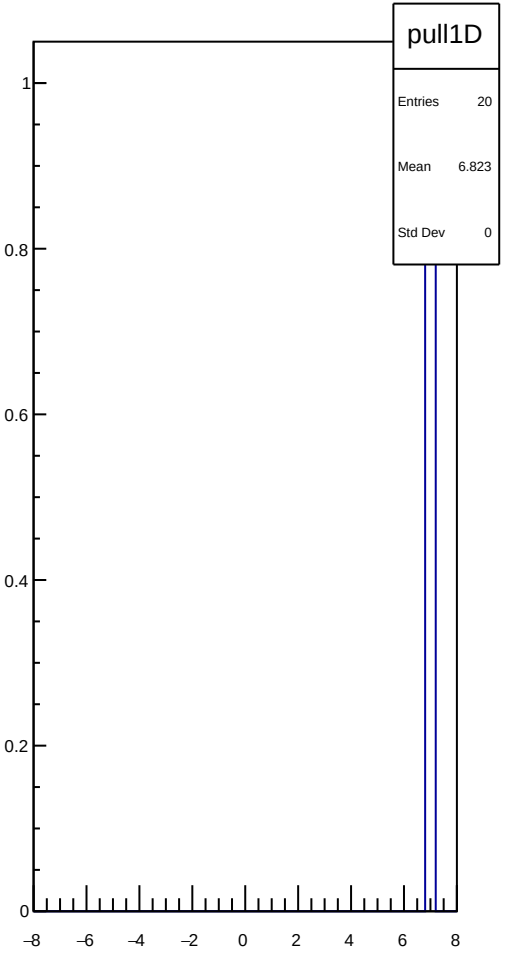

yield_bpm4acX_rms vs run
χ² / ndf 8.339e+04 / 19
p0 0.01664 ± 2.933e–05
0.06
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

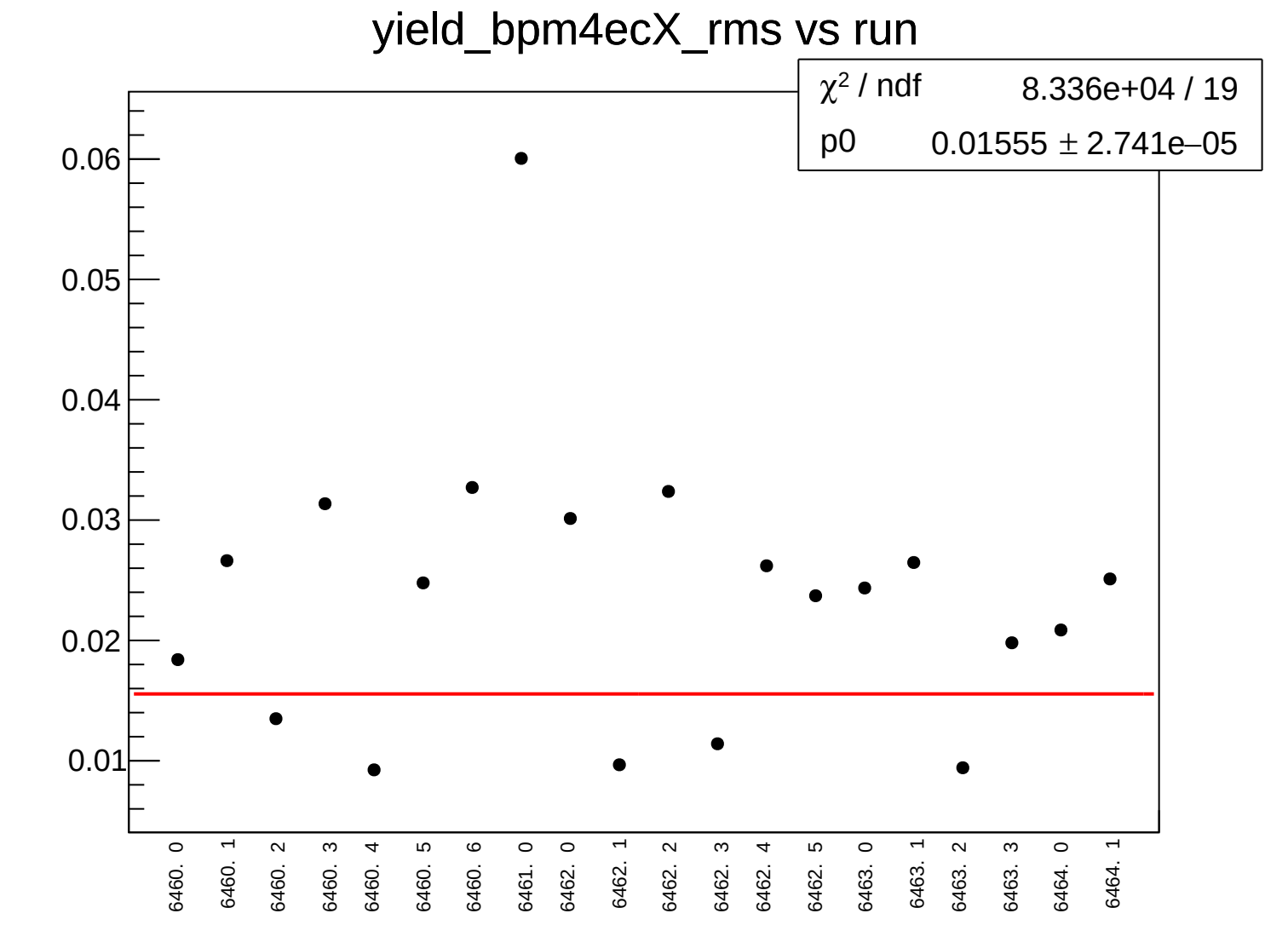

yield_bpm4acY_mean vs run
χ² / ndf 9.397e+04 / 19
p0 0.6687 ± 2.136e−05
0.69
0.68
0.67
0.66
0.65
0.64
0.63
0.62
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 108.8
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 20
Mean −1.412
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

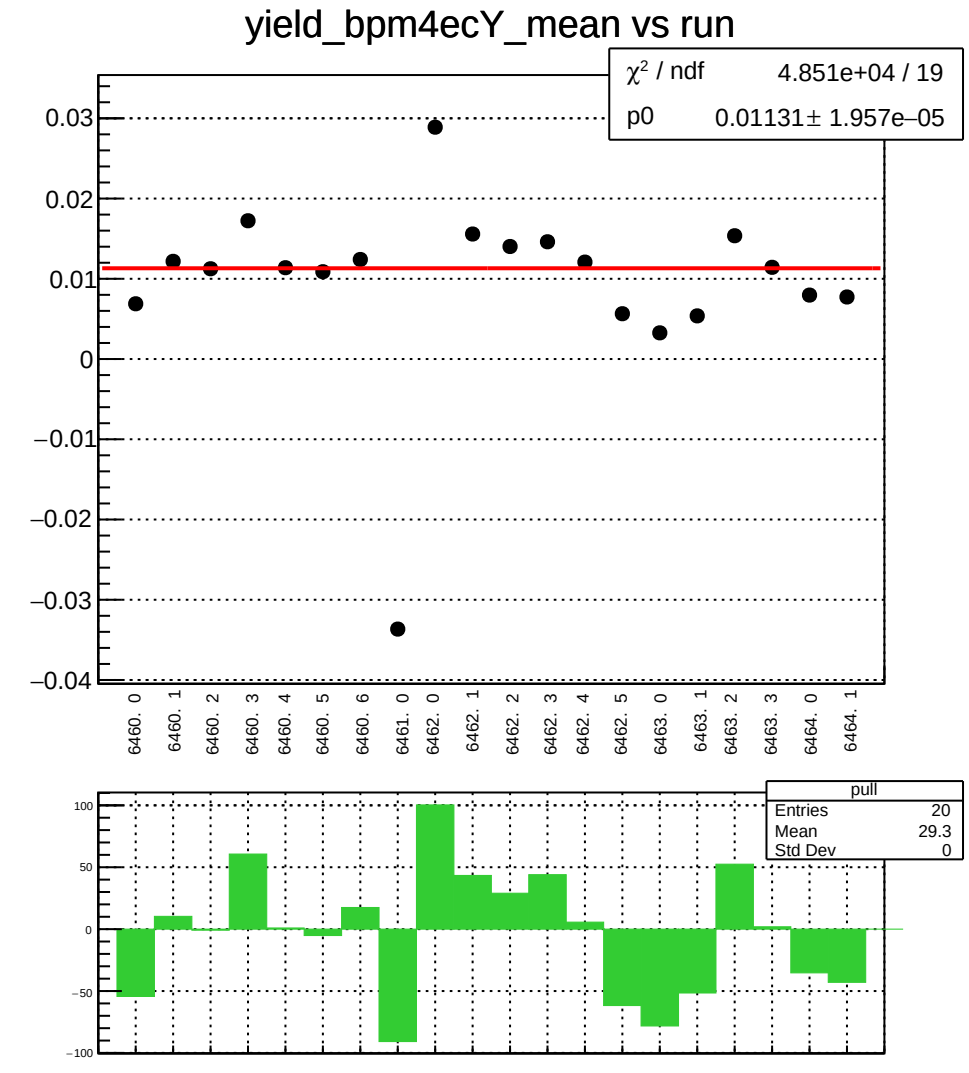

yield_bpm4acY_rms vs run
χ² / ndf 2.233e+04 / 19
p0 0.009346 ± 1.51e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

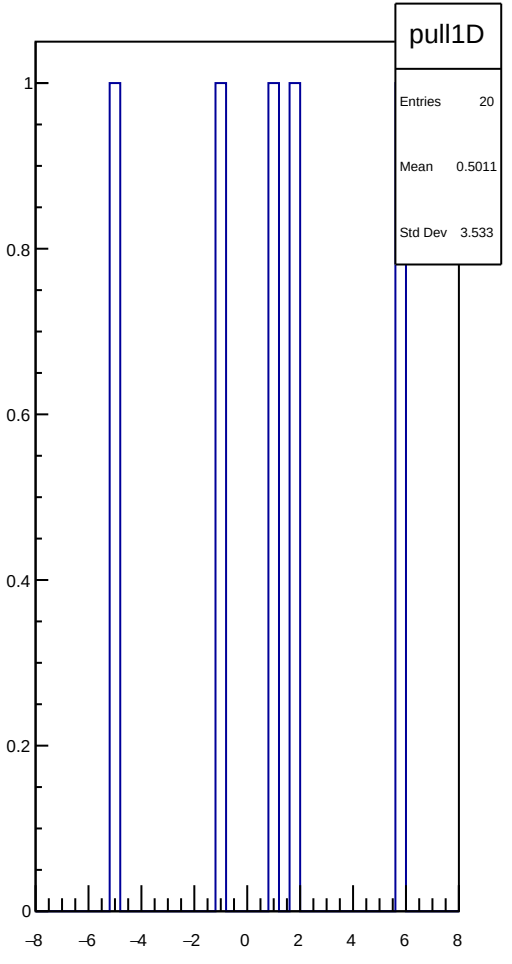

yield_bpm4ecX_mean vs run
χ² / ndf 6.521e+04 / 19
p0 −0.3294 ± 3.877e−05
−0.3
−0.31
−0.32
−0.33
−0.34
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

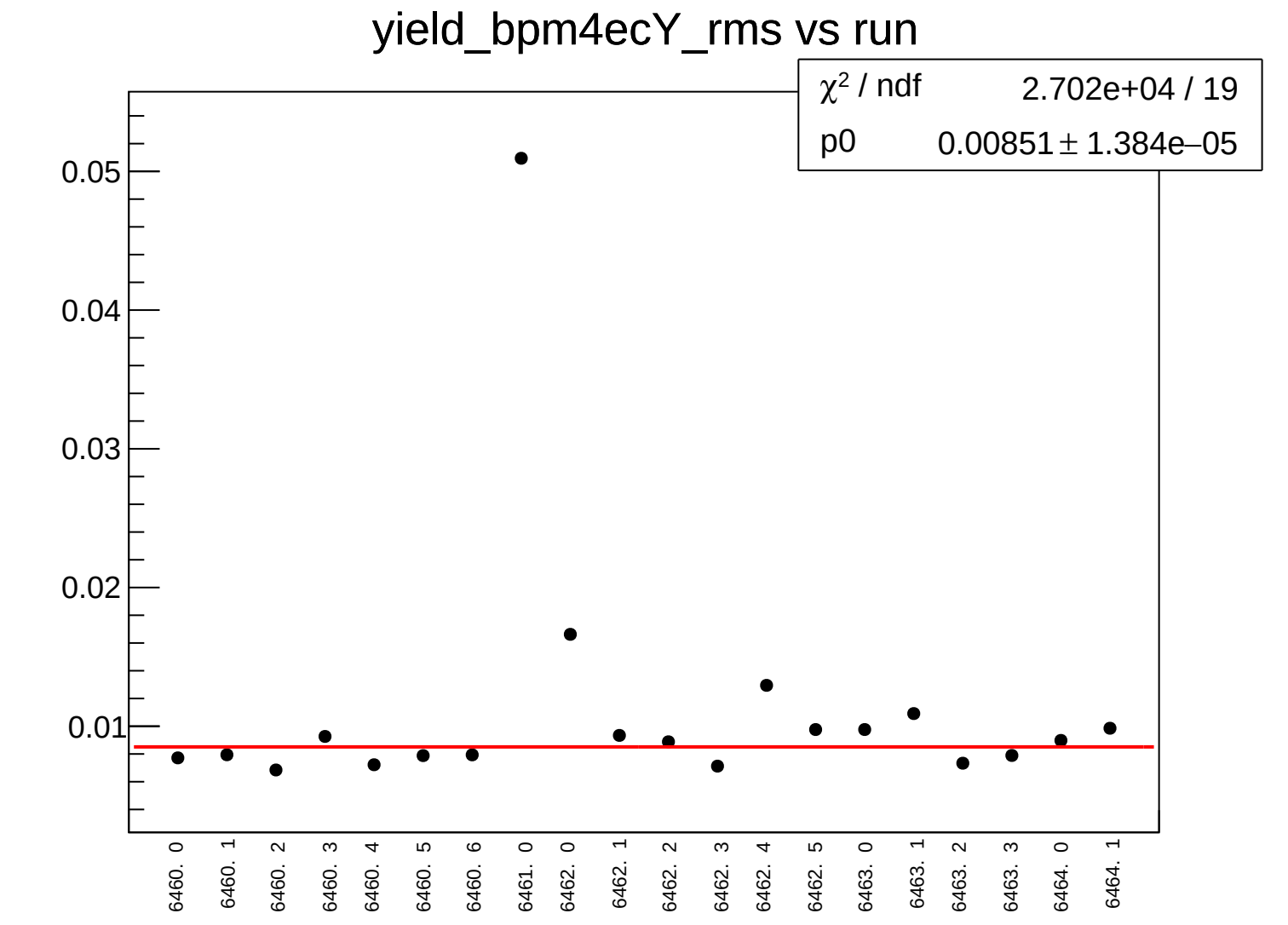

pull
Entries 20
Mean 13.07
Std Dev 5.095
100
50
0
−50
−100

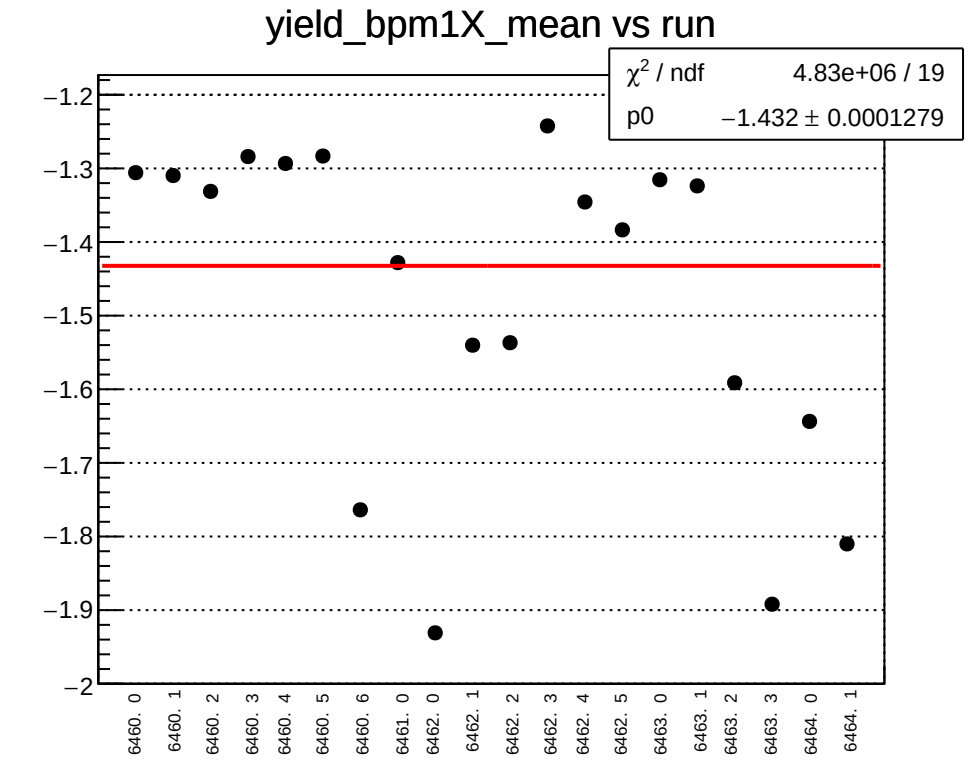

pull1D
Entries 20
Mean 6.823
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

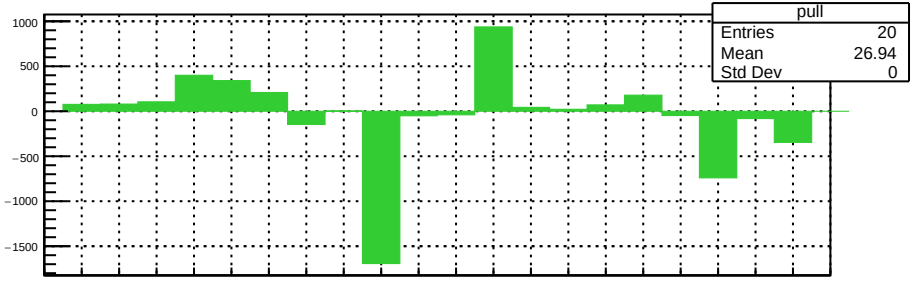

yield_bpm4ecX_rms vs run
χ² / ndf 8.336e+04 / 19
p0 0.01555 ± 2.741e–05
0.06
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

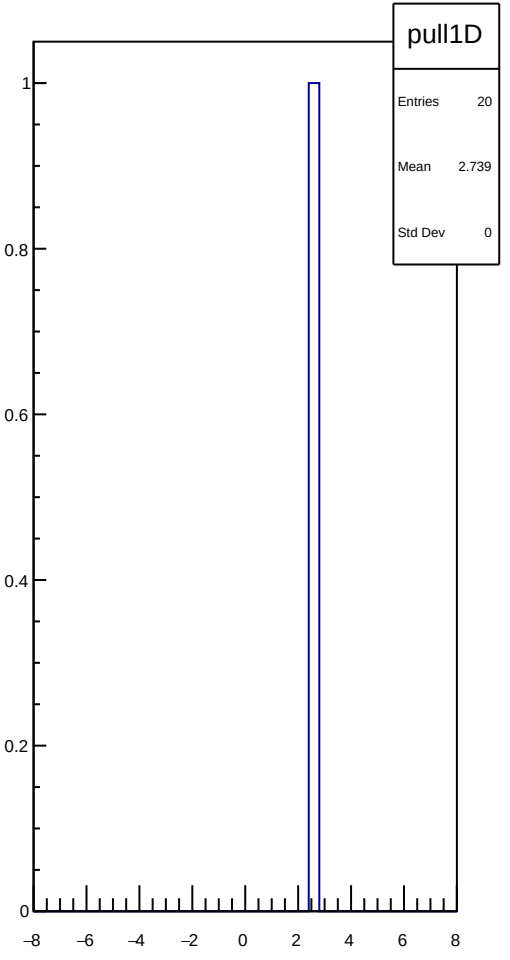

yield_bpm4ecY_mean vs run
χ² / ndf 4.851e+04 / 19
p0 0.01131± 1.957e–05
0.03
0.02
0.01
0
–0.01
–0.02
–0.03
–0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.3
Std Dev 0
100
50
0
–50
–100

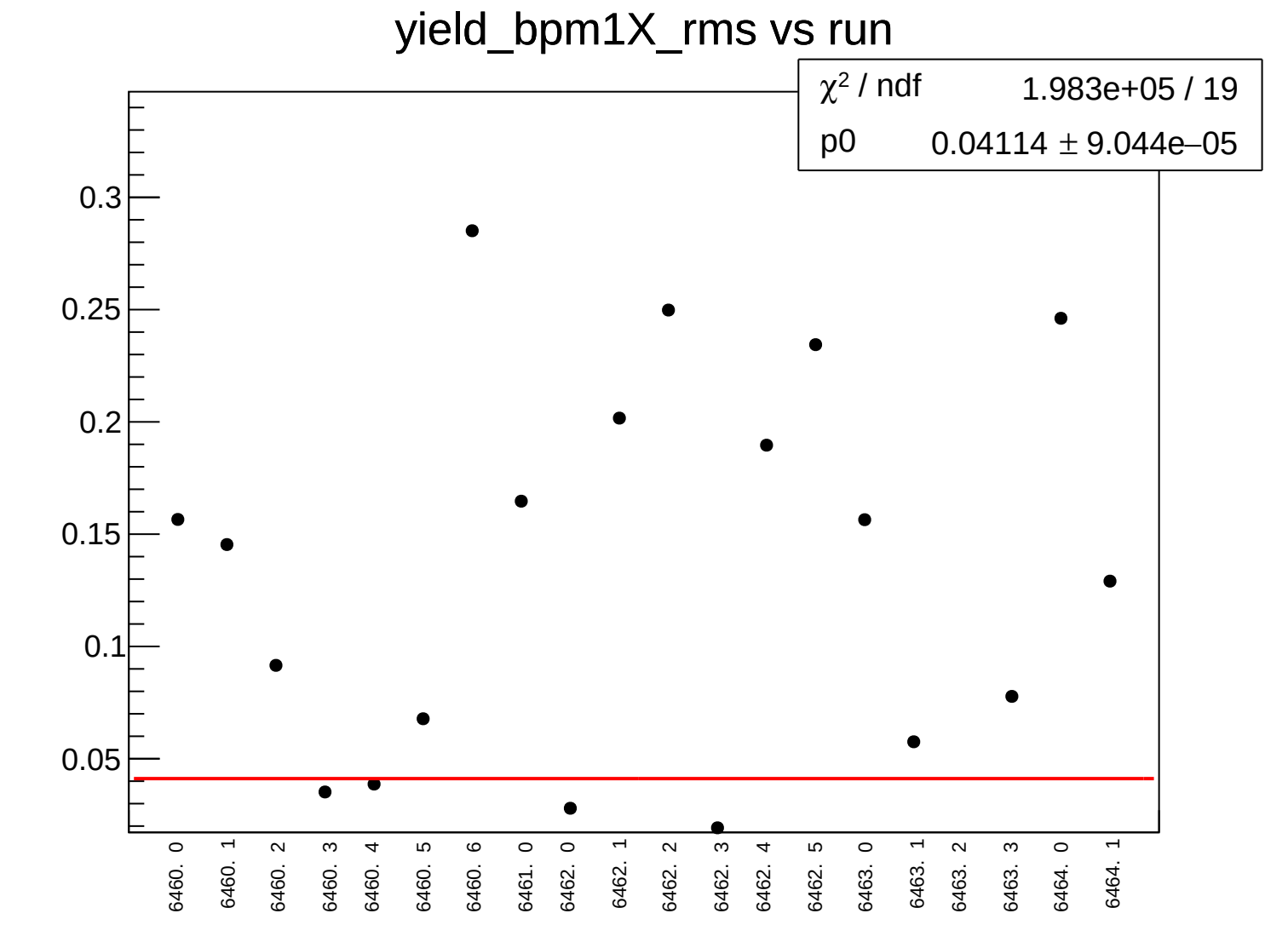

pull1D
Entries 20
Mean 0.5011
Std Dev 3.533
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

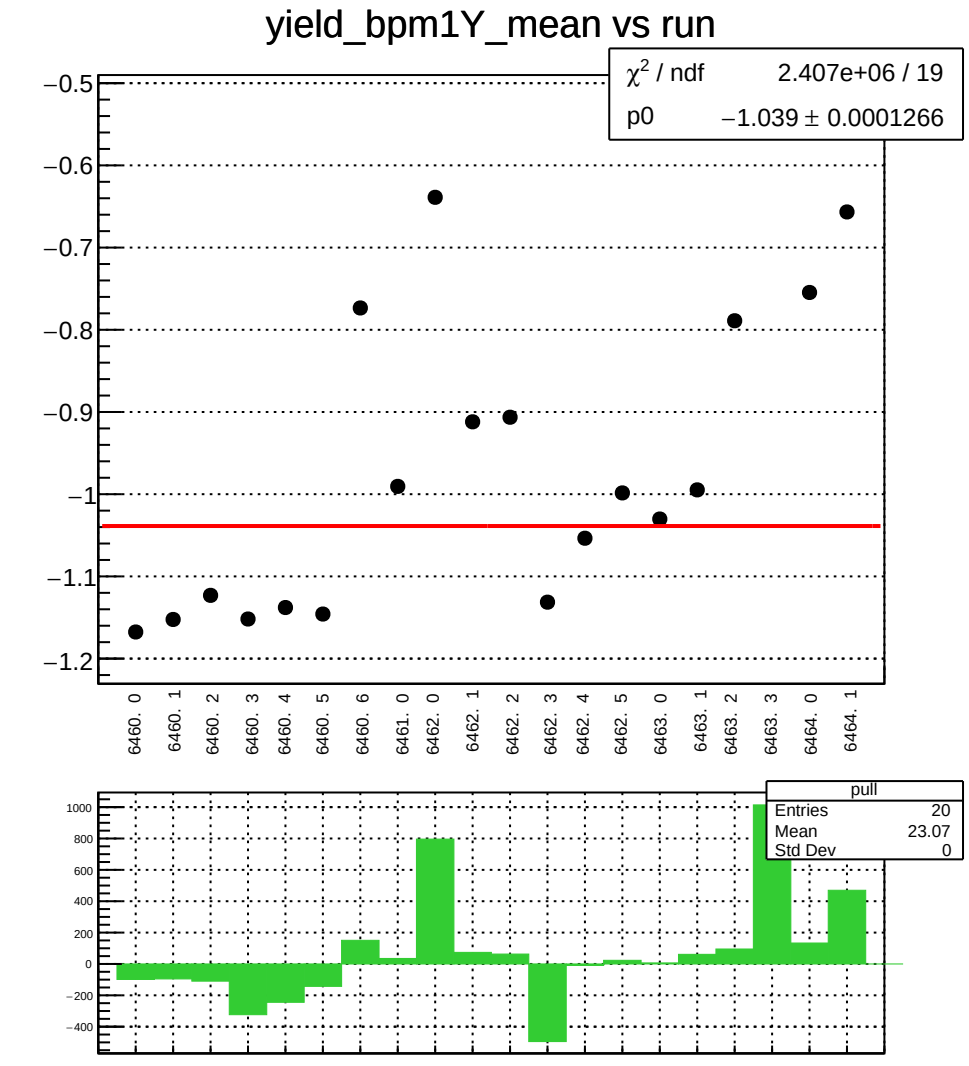

yield_bpm4ecY_rms vs run
χ² / ndf 2.702e+04 / 19
p0 0.00851 ± 1.384e–05
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

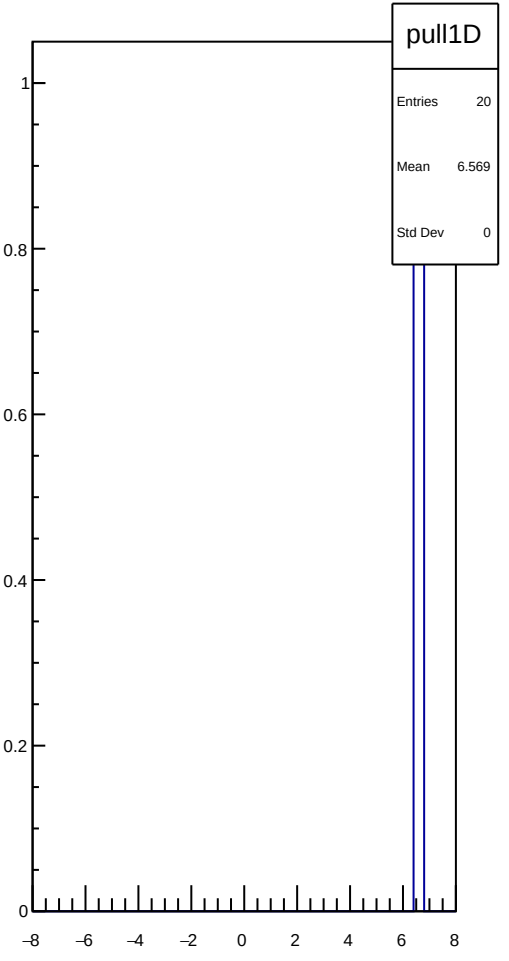

yield_bpm1X_mean vs run
χ² / ndf 4.83e+06 / 19
p0 −1.432 ± 0.0001279
−1.2
−1.3
−1.4
−1.5
−1.6
−1.7
−1.8
−1.9
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

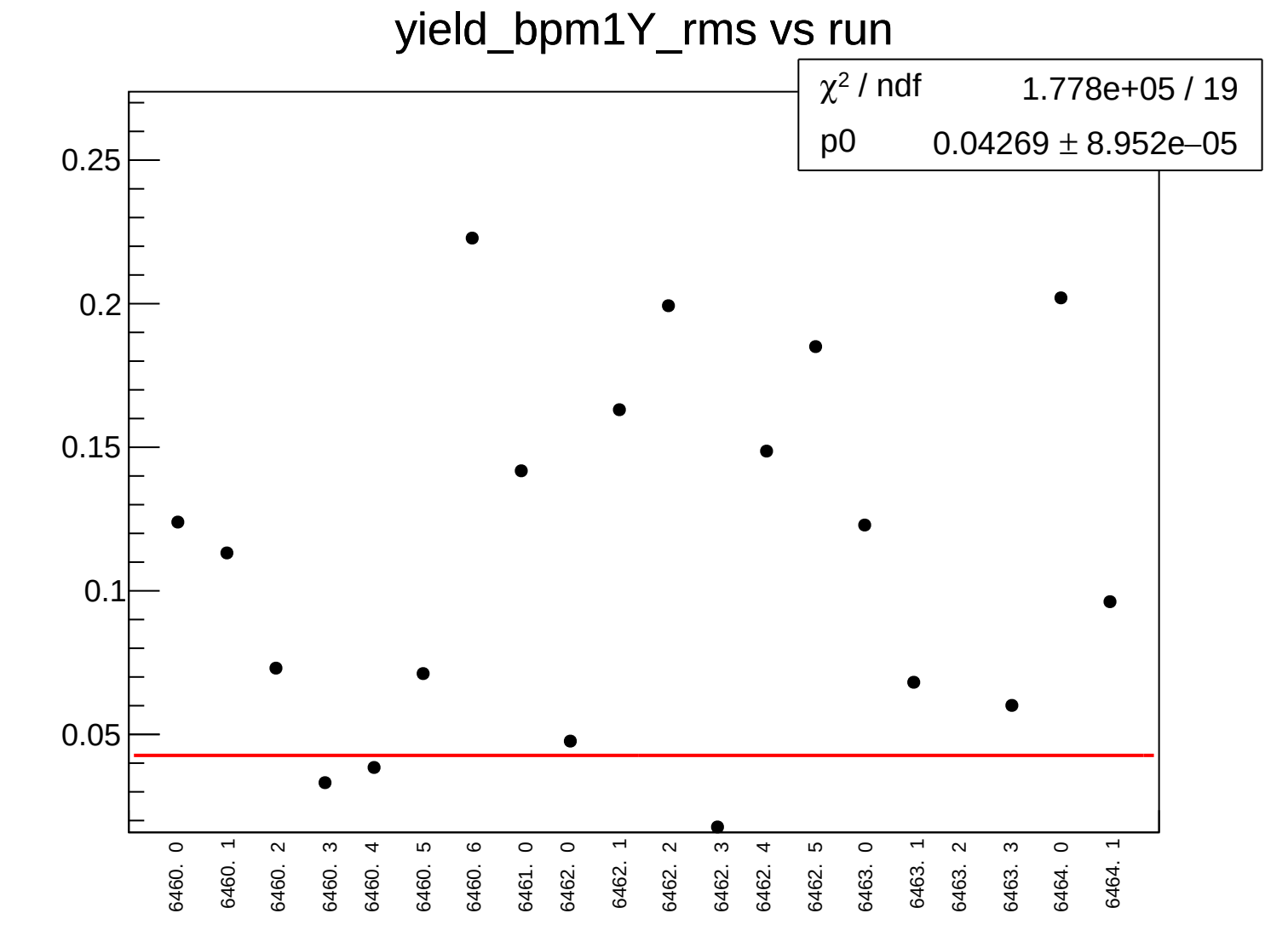

pull
Entries 20
Mean 26.94
Std Dev 0
1000
500
0
−500
−1000
−1500

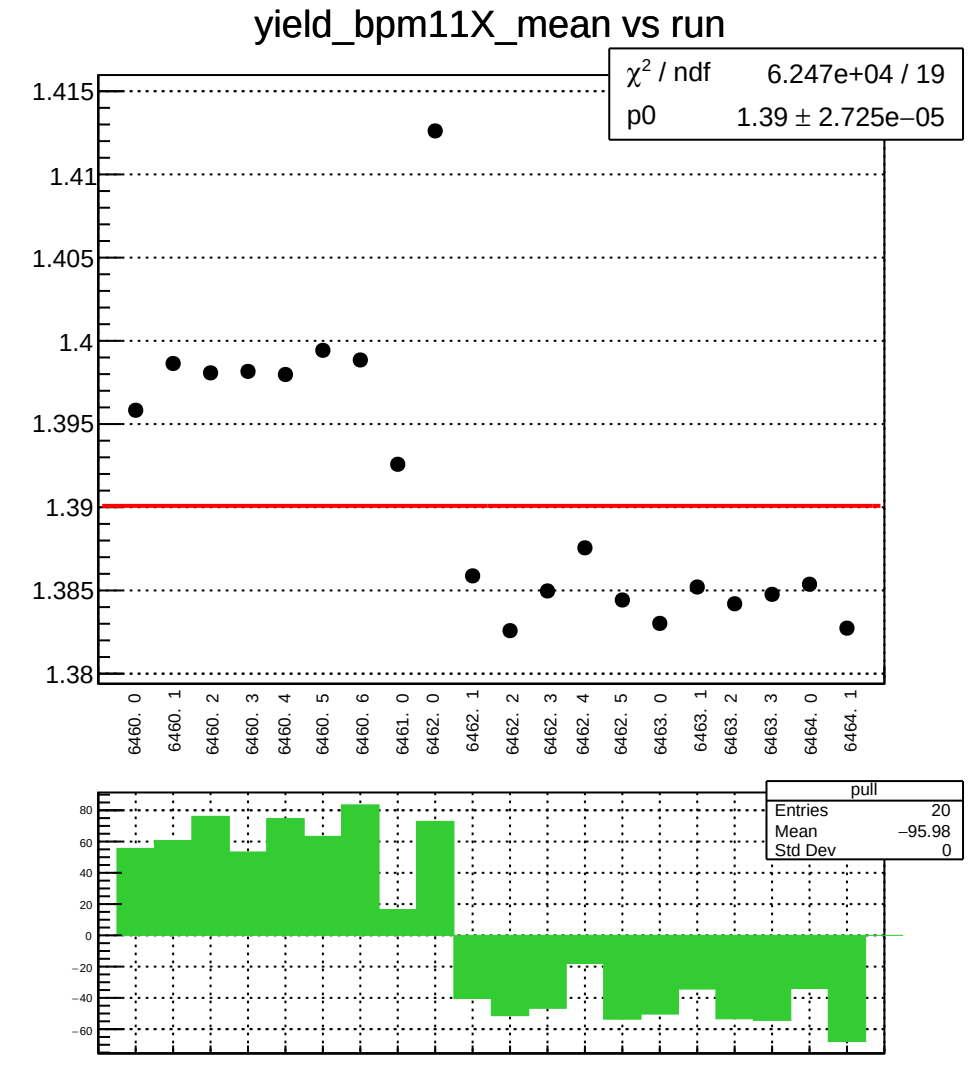

pull1D
Entries 20
Mean 2.739
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

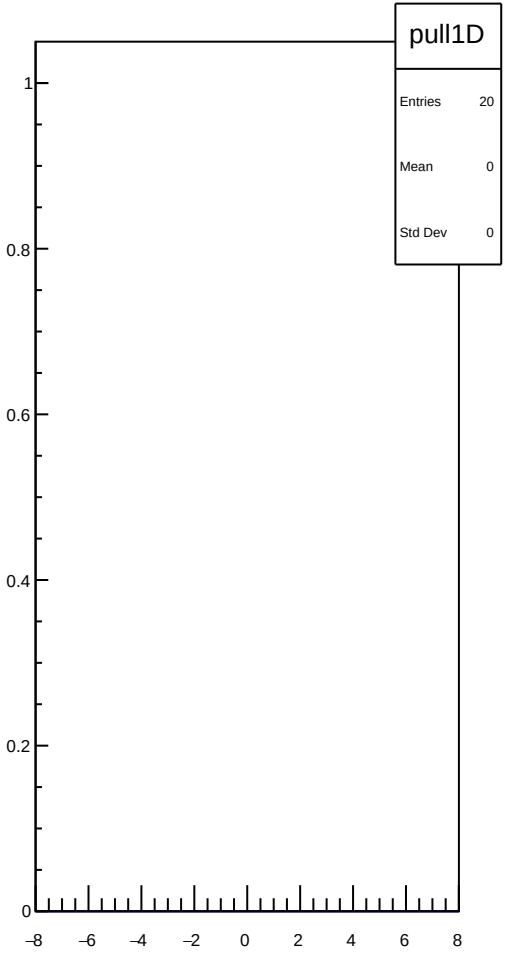

yield_bpm1X_rms vs run
χ² / ndf 1.983e+05 / 19
p0 0.04114 ± 9.044e−05
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

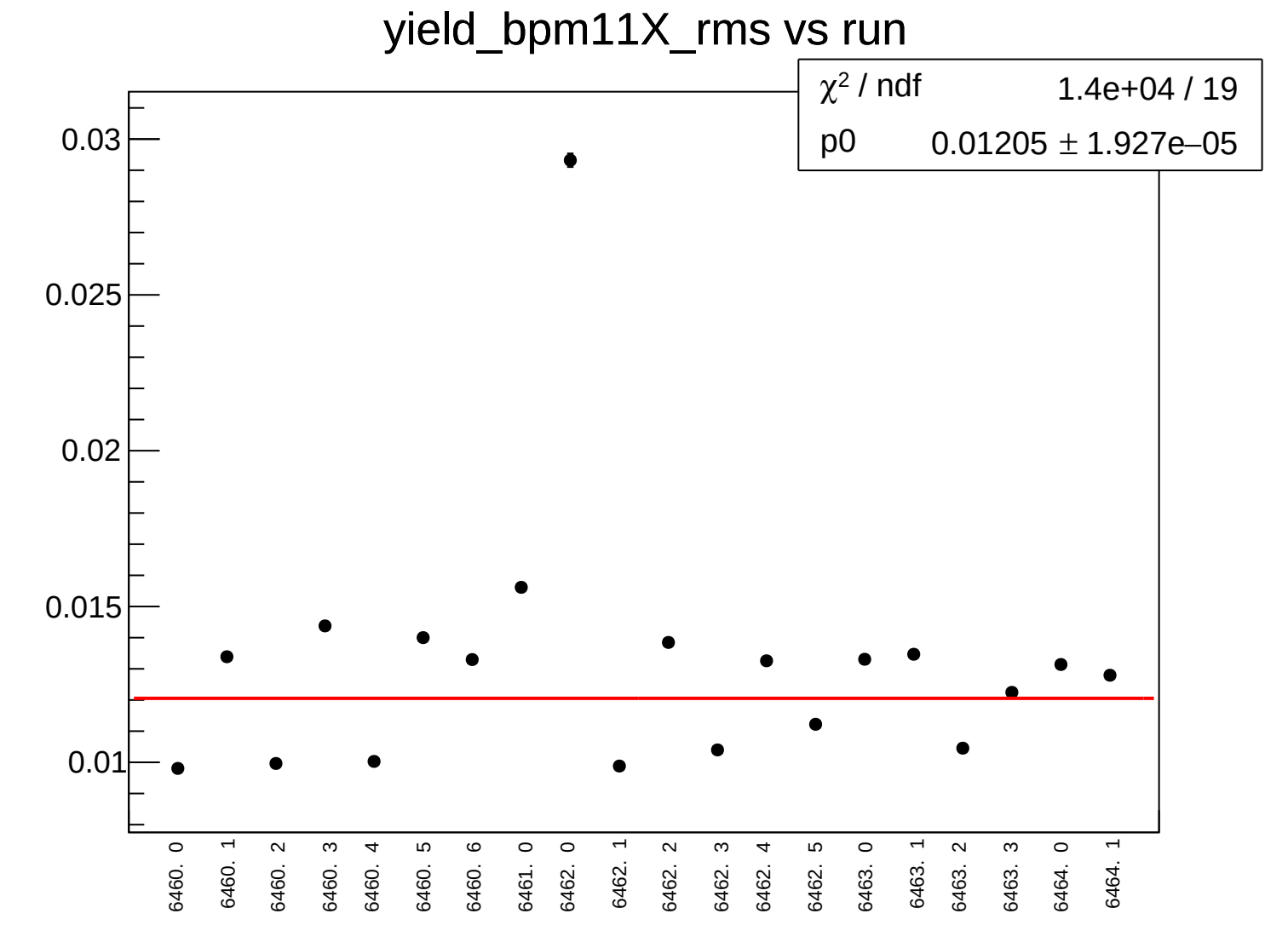

yield_bpm1Y_mean vs run
χ² / ndf 2.407e+06 / 19
p0 −1.039 ± 0.0001266
−0.5
−0.6
−0.7
−0.8
−0.9
−1
−1.1
−1.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.07
Std Dev 0
1000
800
600
400
200
0
−200
−400

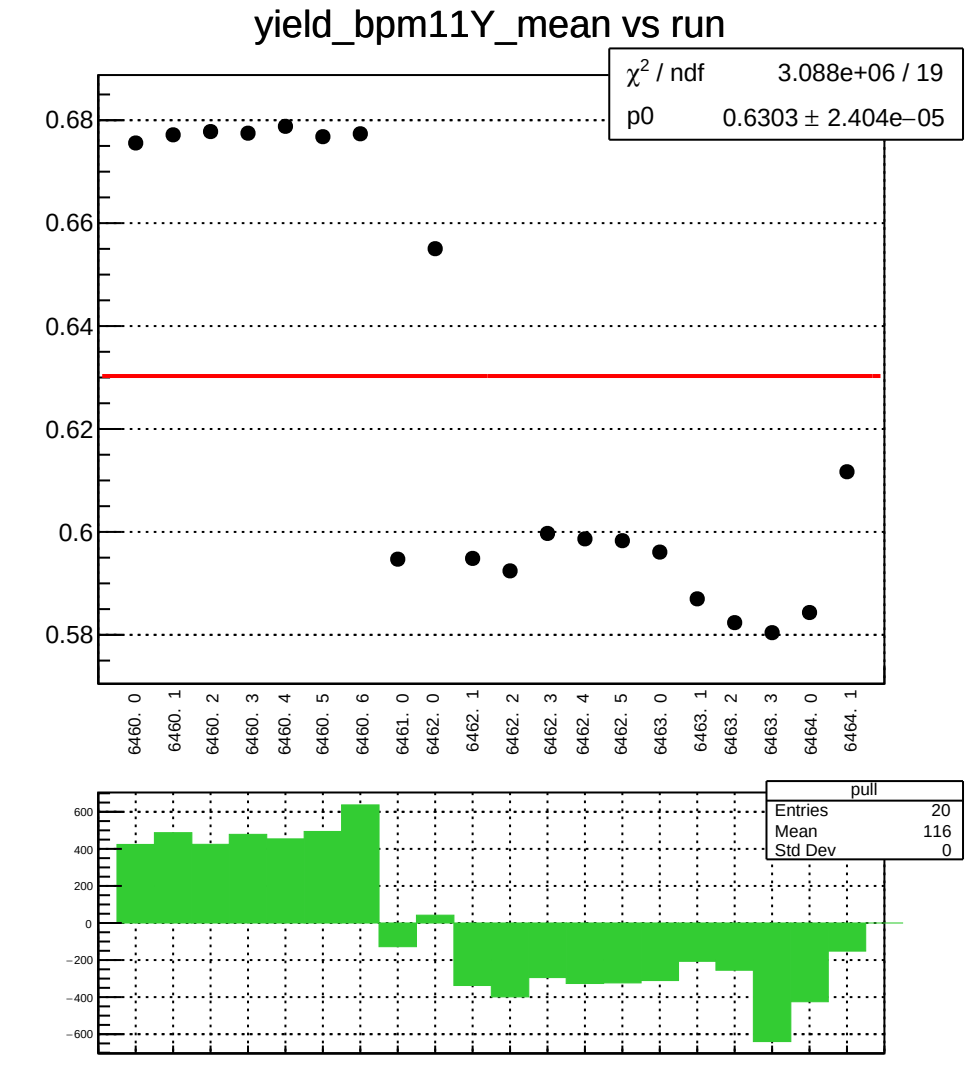

pull1D
Entries 20
Mean 6.569
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

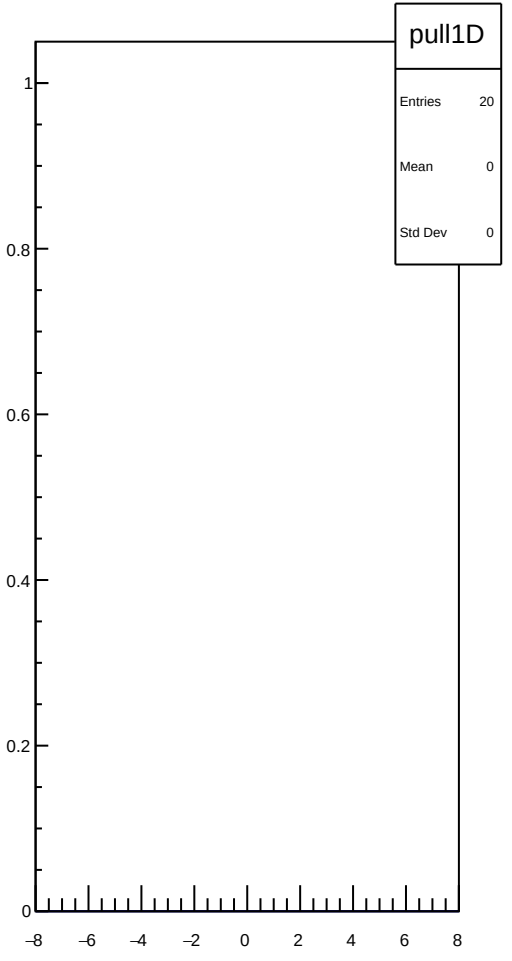

yield_bpm1Y_rms vs run
χ² / ndf 1.778e+05 / 19
p0 0.04269 ± 8.952e–05
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

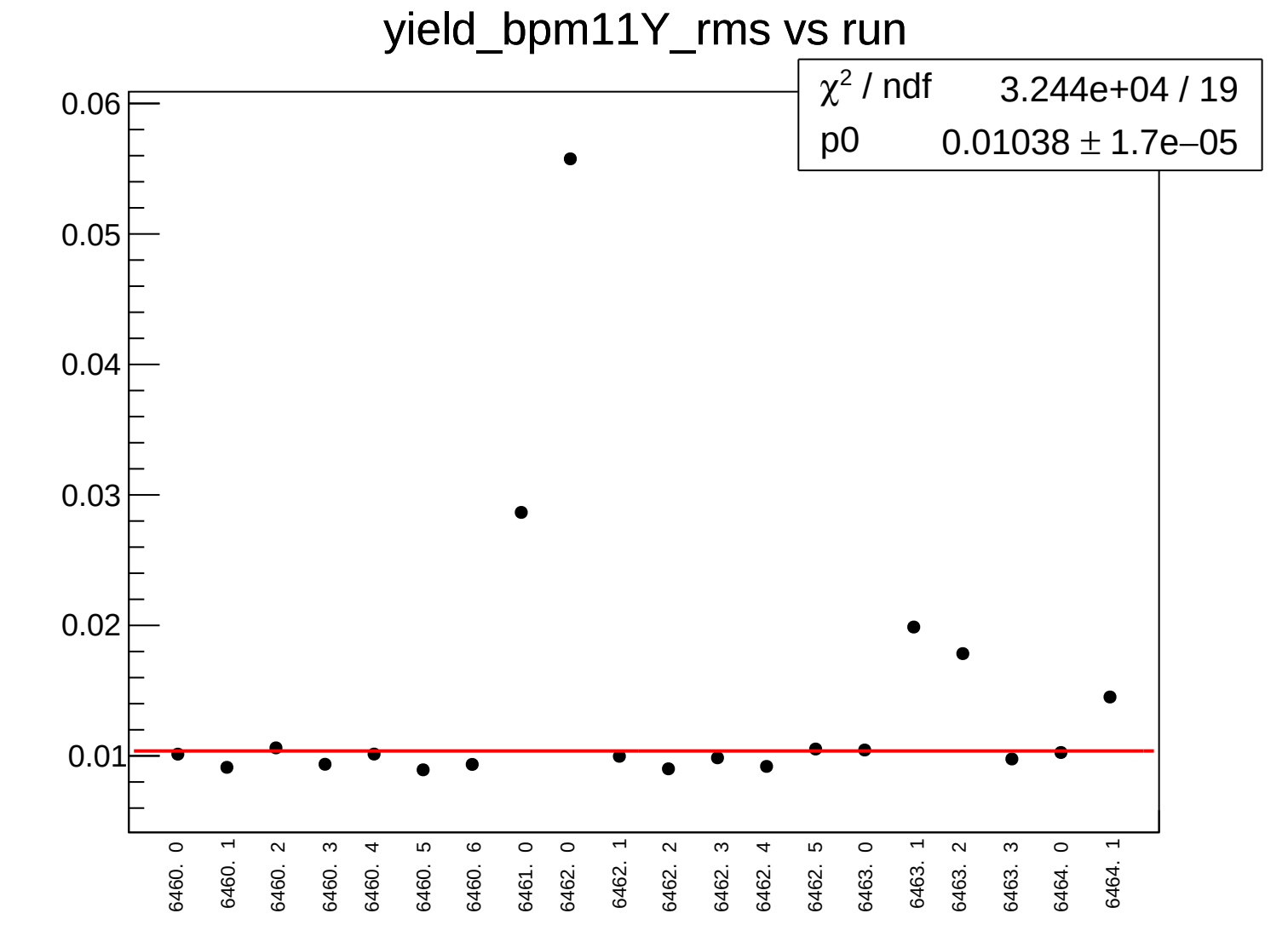

yield_bpm11X_mean vs run
χ² / ndf 6.247e+04 / 19
p0 1.39 ± 2.725e−05
1.415
1.41
1.405
1.4
1.395
1.39
1.385
1.38
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −95.98
Std Dev 0
80
60
40
20
0
−20
−40
−60

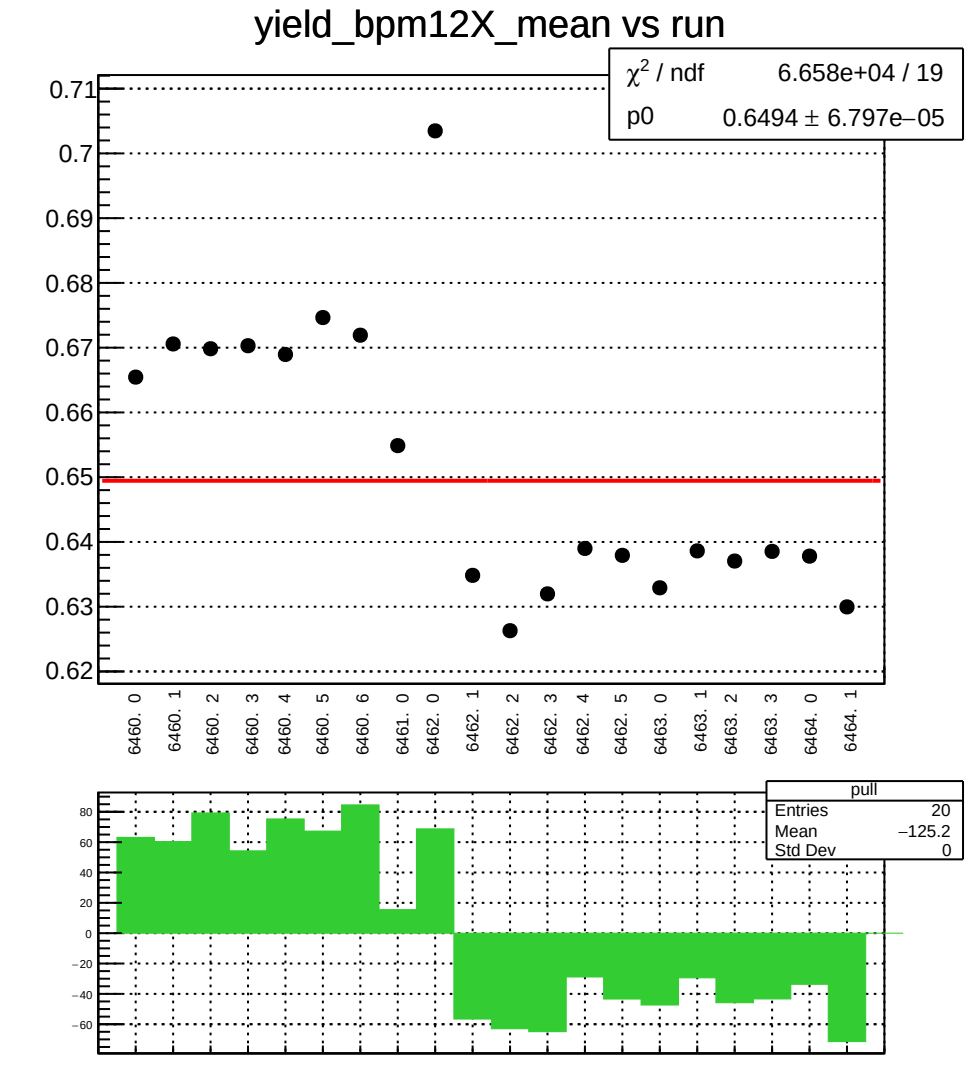

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

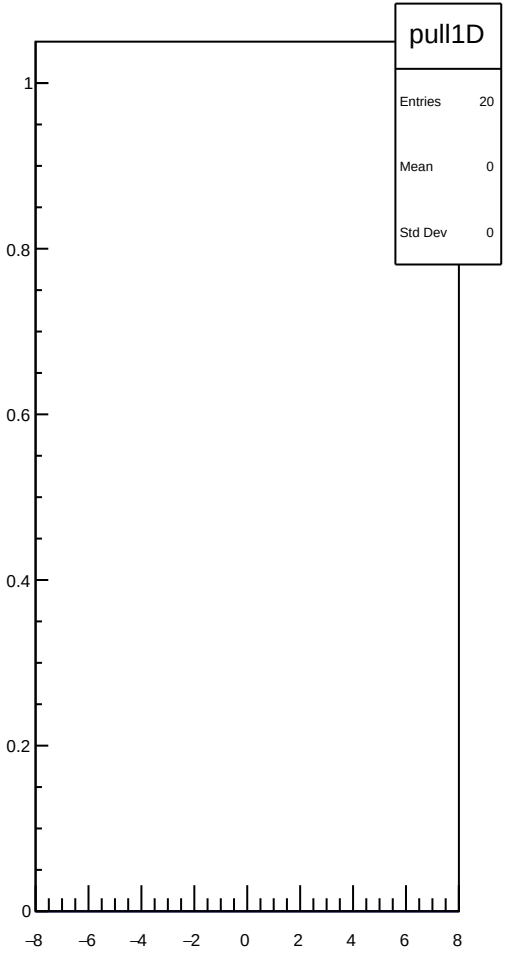

yield_bpm11X_rms vs run
χ² / ndf 1.4e+04 / 19
p0 0.01205 ± 1.927e–05
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

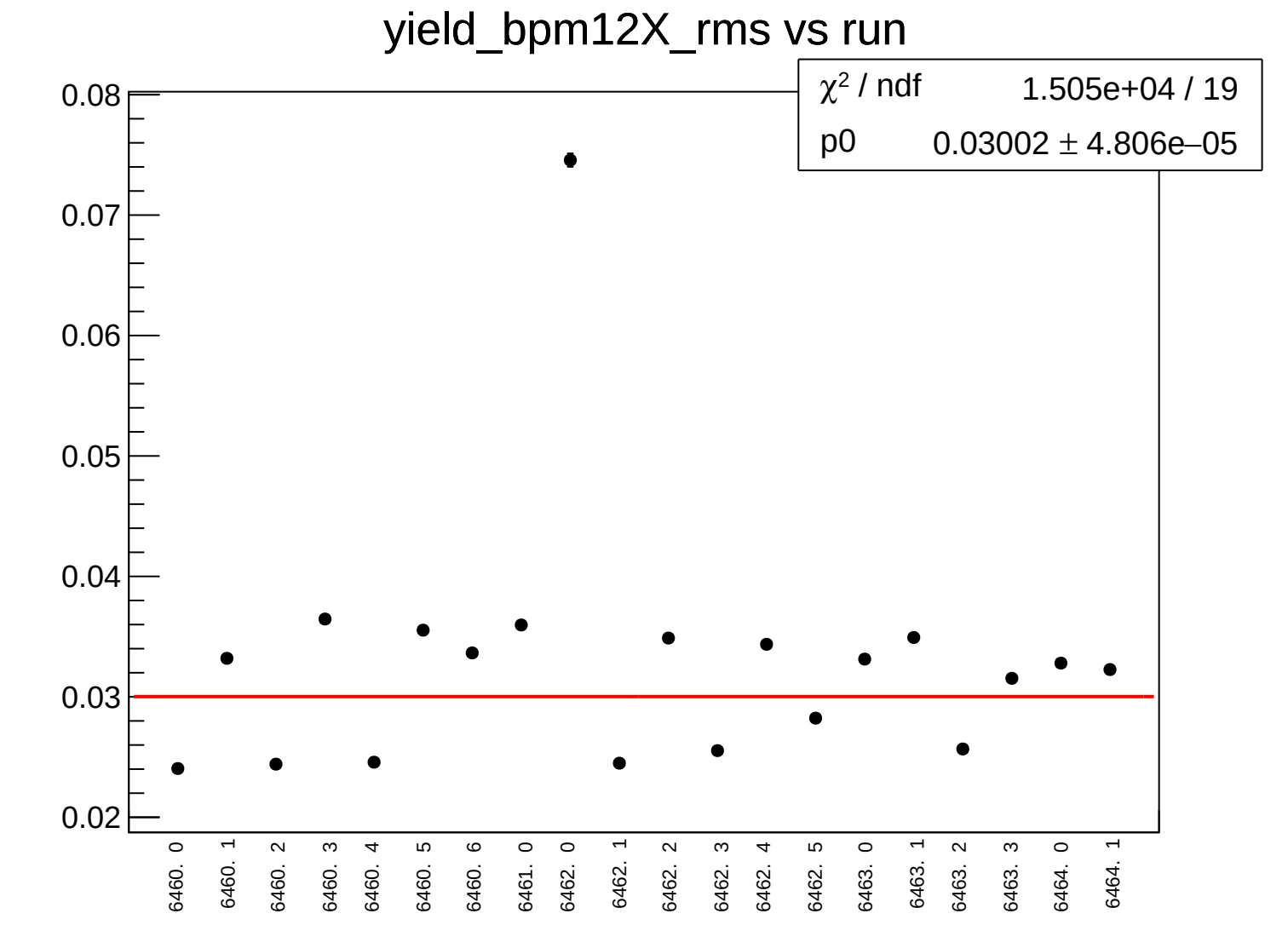

yield_bpm11Y_mean vs run
χ² / ndf 3.088e+06 / 19
p0 0.6303 ± 2.404e−05
0.68
0.66
0.64
0.62
0.6
0.58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 116
Std Dev 0
600
400
200
0
−200
−400
−600

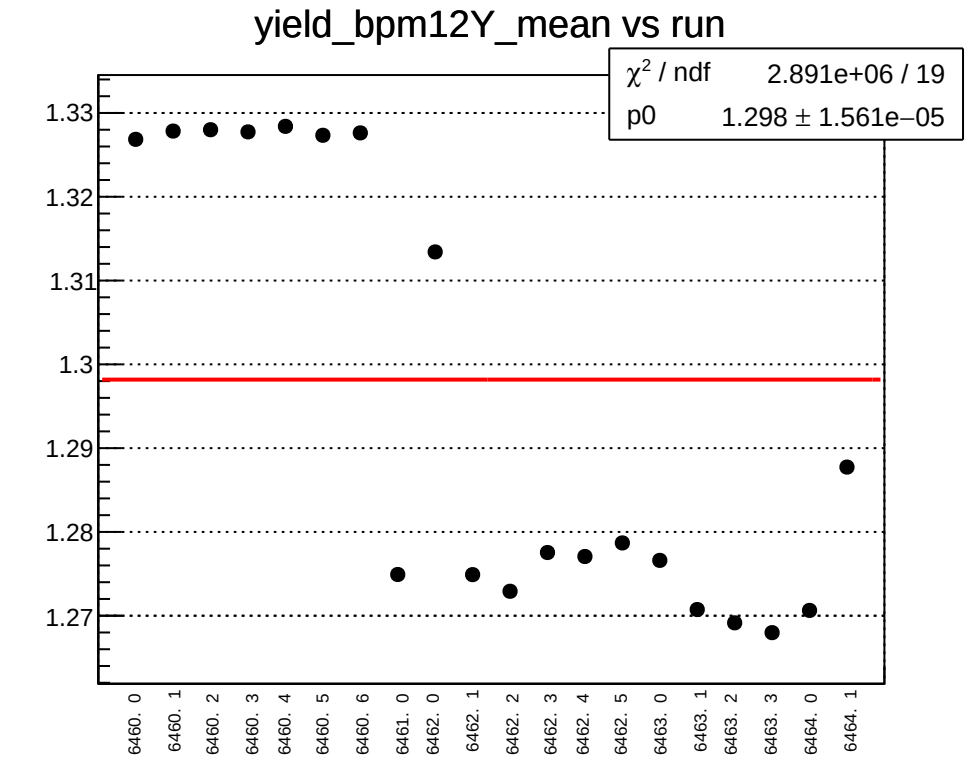

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

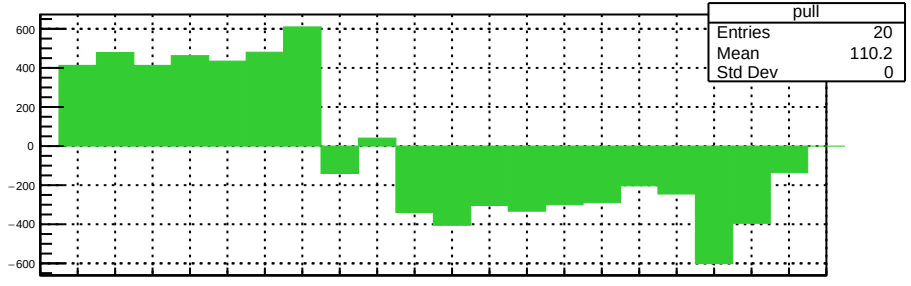

yield_bpm11Y_rms vs run
χ² / ndf 3.244e+04 / 19
p0 0.01038 ± 1.7e−05
0.06
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

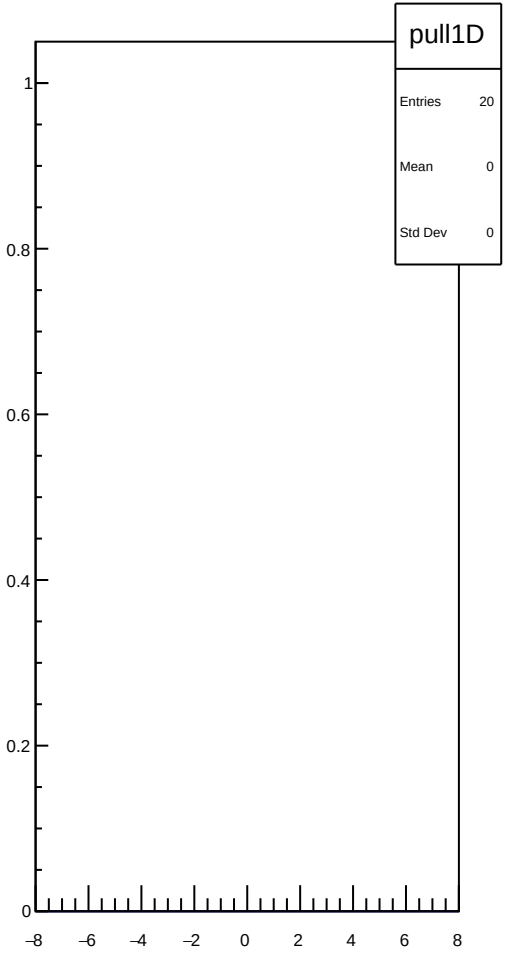

yield_bpm12X_mean vs run
χ² / ndf 6.658e+04 / 19
p0 0.6494 ± 6.797e−05
0.71
0.7
0.69
0.68
0.67
0.66
0.65
0.64
0.63
0.62
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −125.2
Std Dev 0
80
60
40
20
0
−20
−40
−60

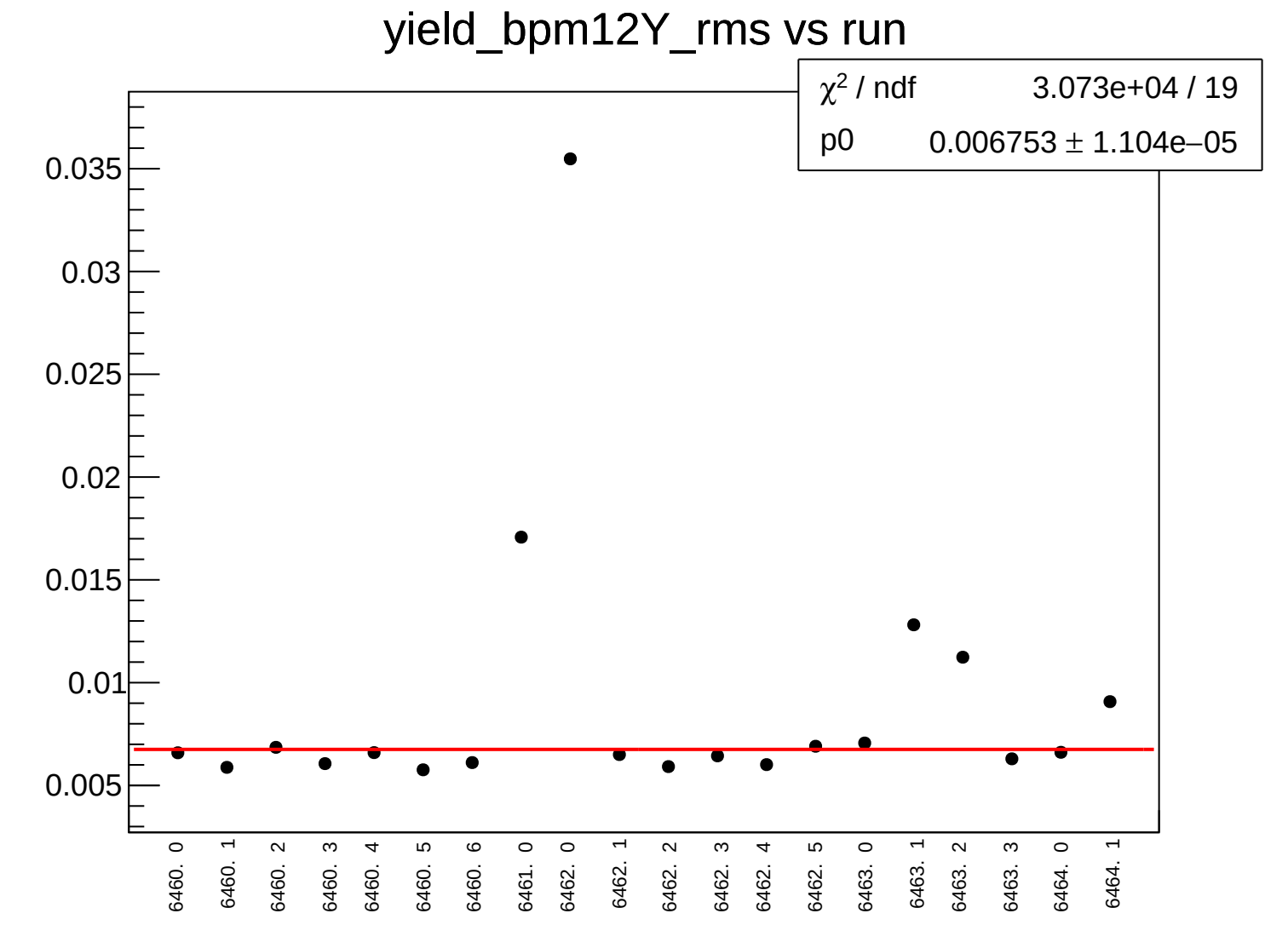

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

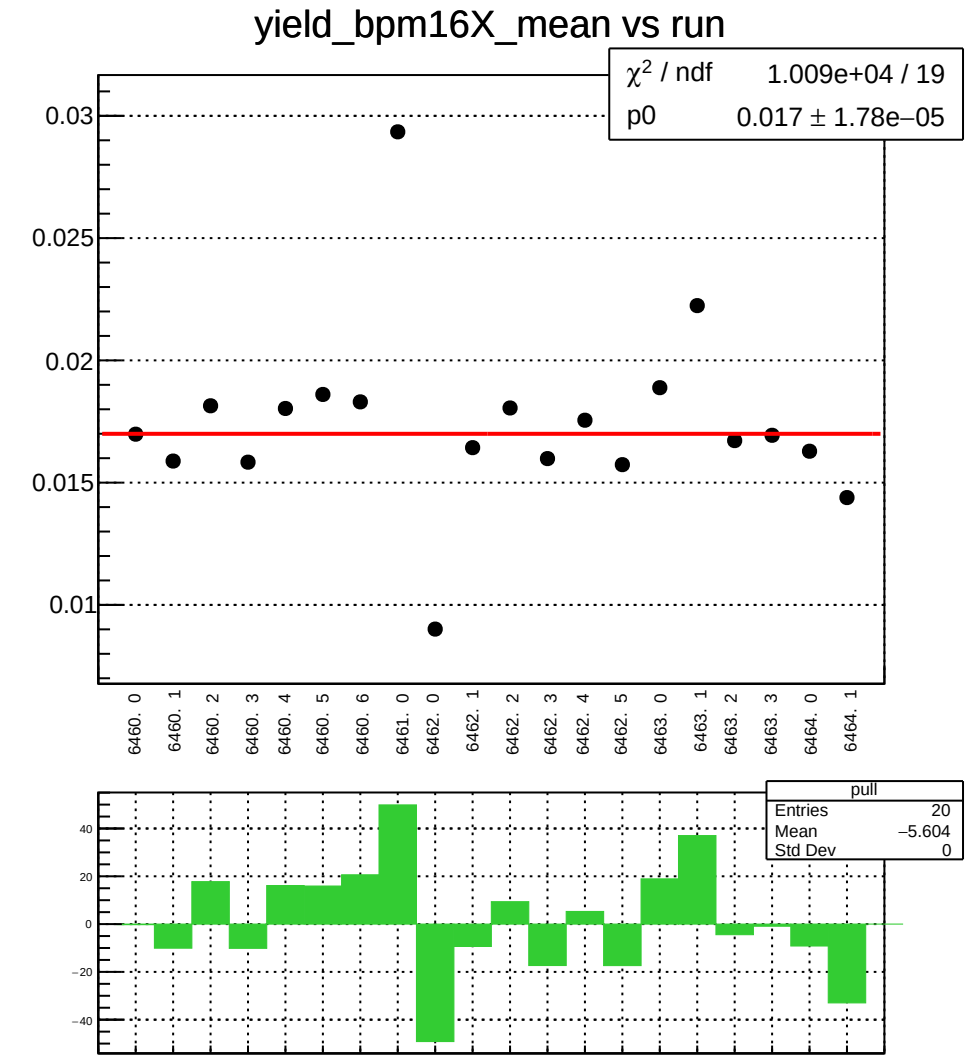

yield_bpm12X_rms vs run
χ² / ndf 1.505e+04 / 19
p0 0.03002 ± 4.806e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

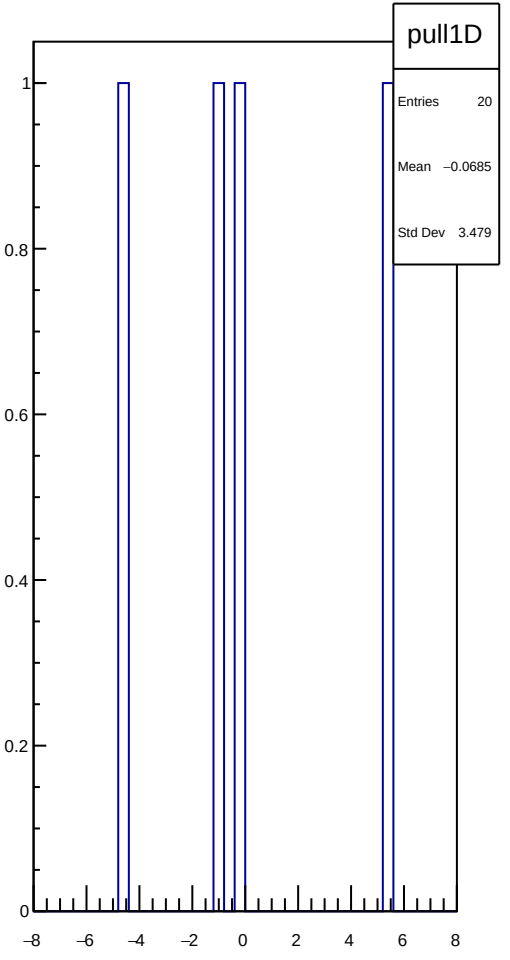

yield_bpm12Y_mean vs run
χ² / ndf 2.891e+06 / 19
p0 1.298 ± 1.561e−05
1.33
1.32
1.31
1.3
1.29
1.28
1.27
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

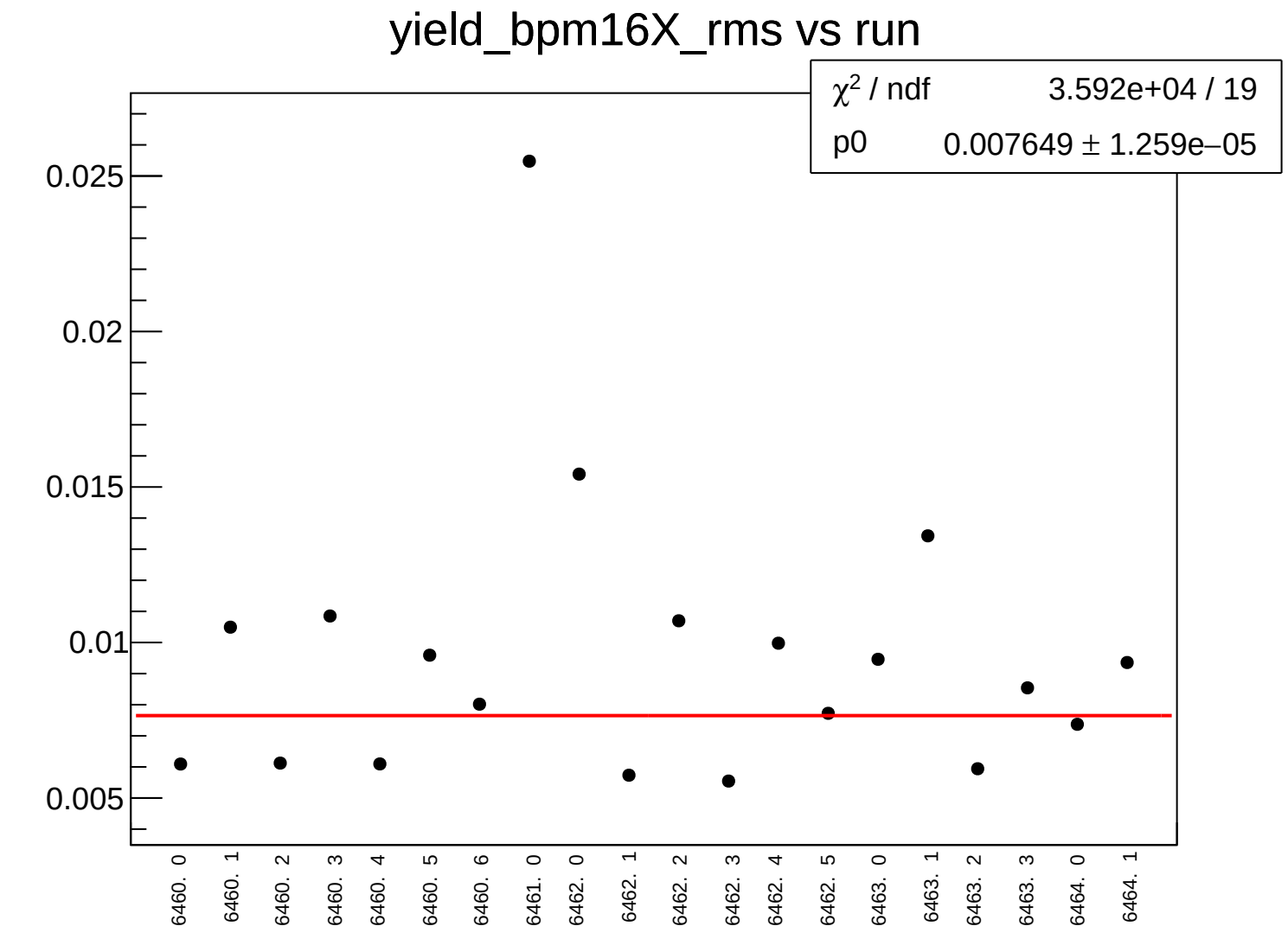

pull
Entries 20
Mean 110.2
Std Dev 0
600
400
200
0
−200
−400
−600

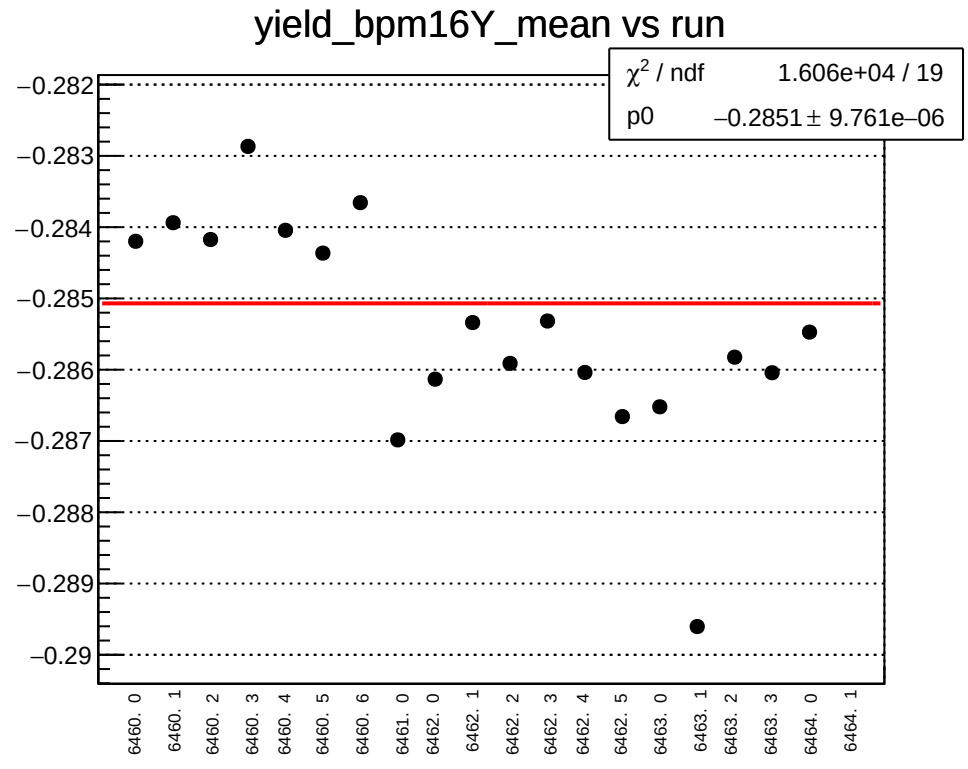

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

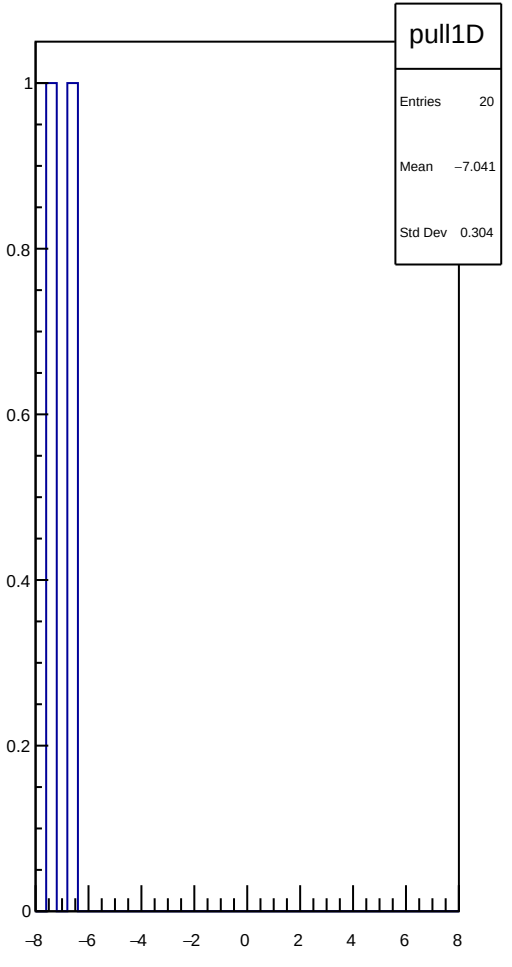

yield_bpm12Y_rms vs run
χ² / ndf 3.073e+04 / 19
p0 0.006753 ± 1.104e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

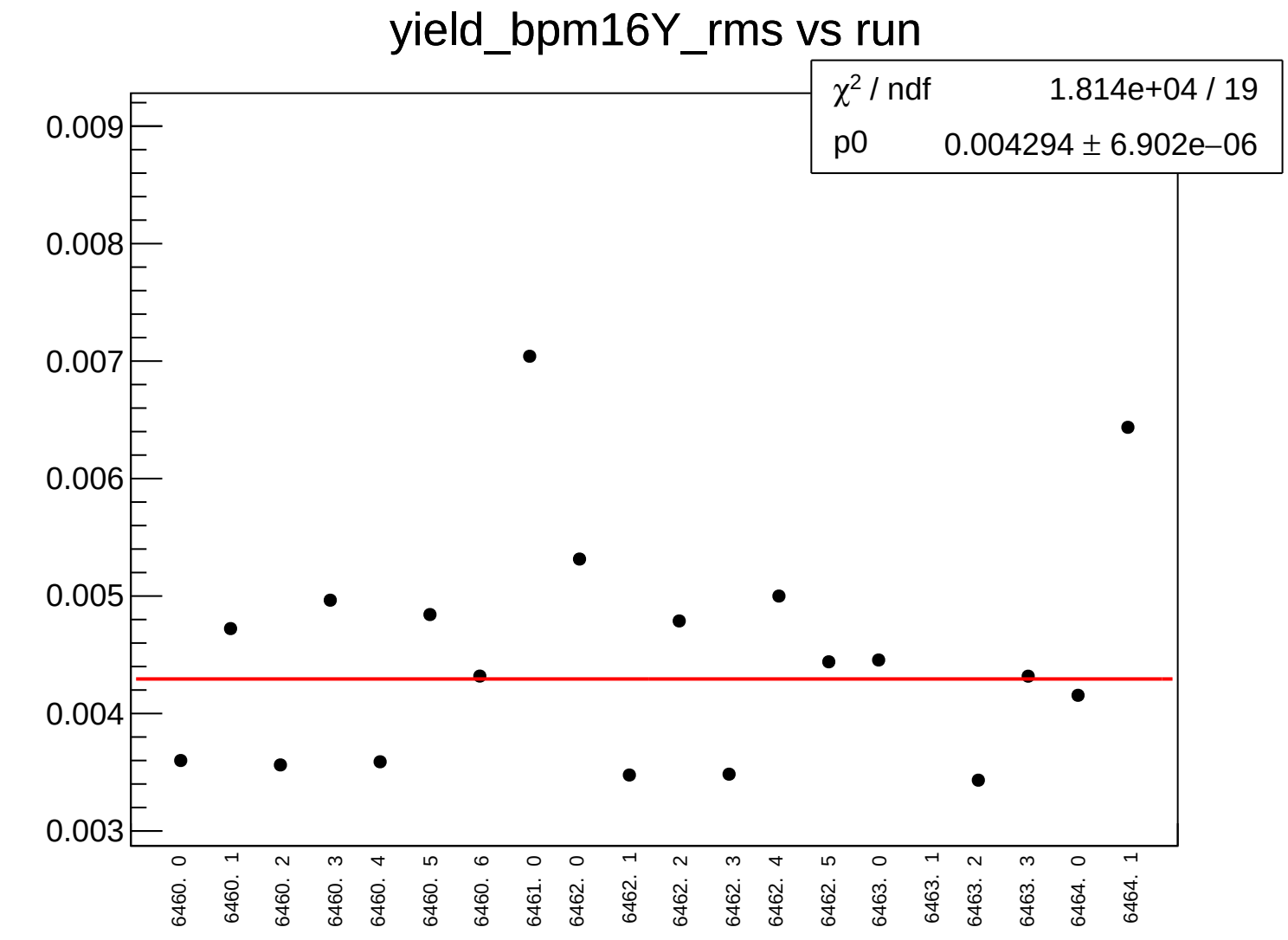

yield_bpm16X_mean vs run
χ² / ndf 1.009e+04 / 19
p0 0.017 ± 1.78e−05
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −5.604
Std Dev 0
40
20
0
−20
−40

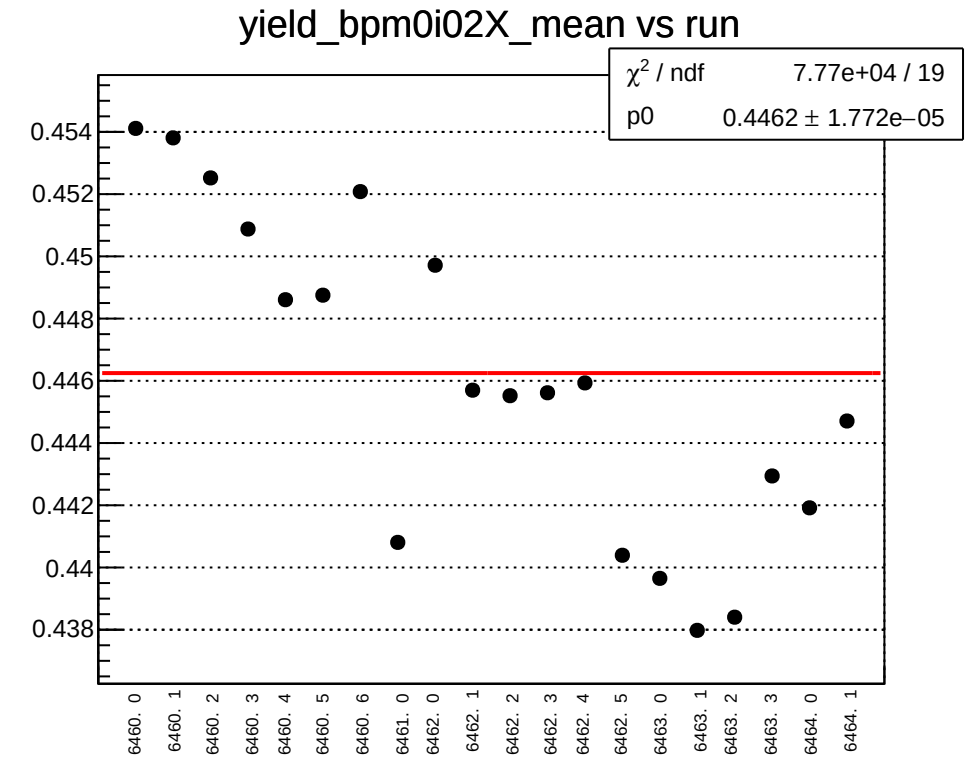

pull1D
Entries 20
Mean −0.0685
Std Dev 3.479
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

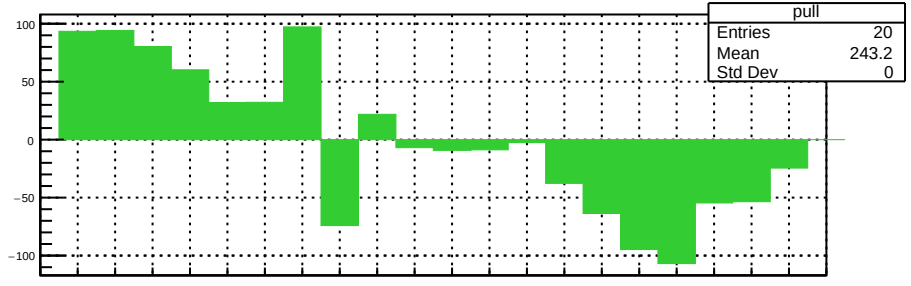

yield_bpm16X_rms vs run
χ² / ndf 3.592e+04 / 19
p0 0.007649 ± 1.259e−05
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

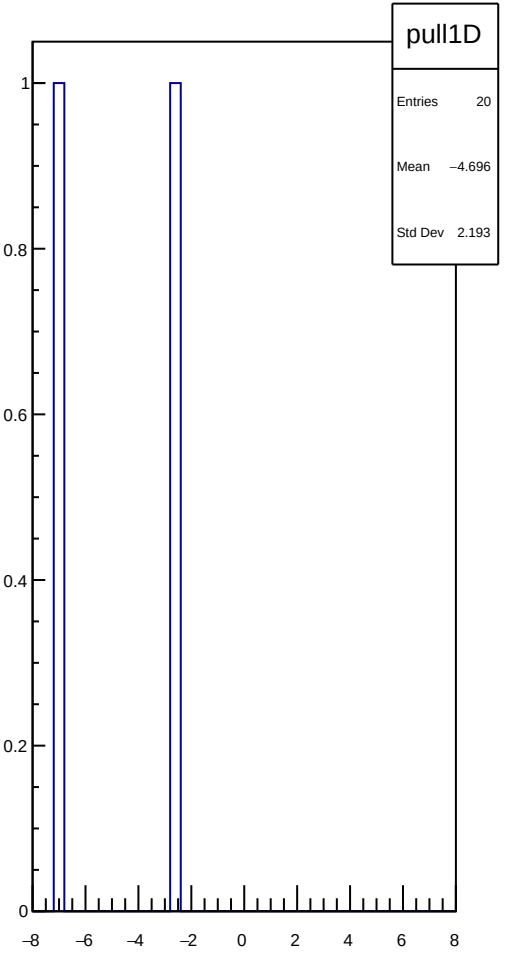

yield_bpm16Y_mean vs run
χ² / ndf 1.606e+04 / 19
p0 −0.2851 ± 9.761e−06
−0.282
−0.283
−0.284
−0.285
−0.286
−0.287
−0.288
−0.289
−0.29
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.73
Std Dev 0
40
20
0
−20
−40

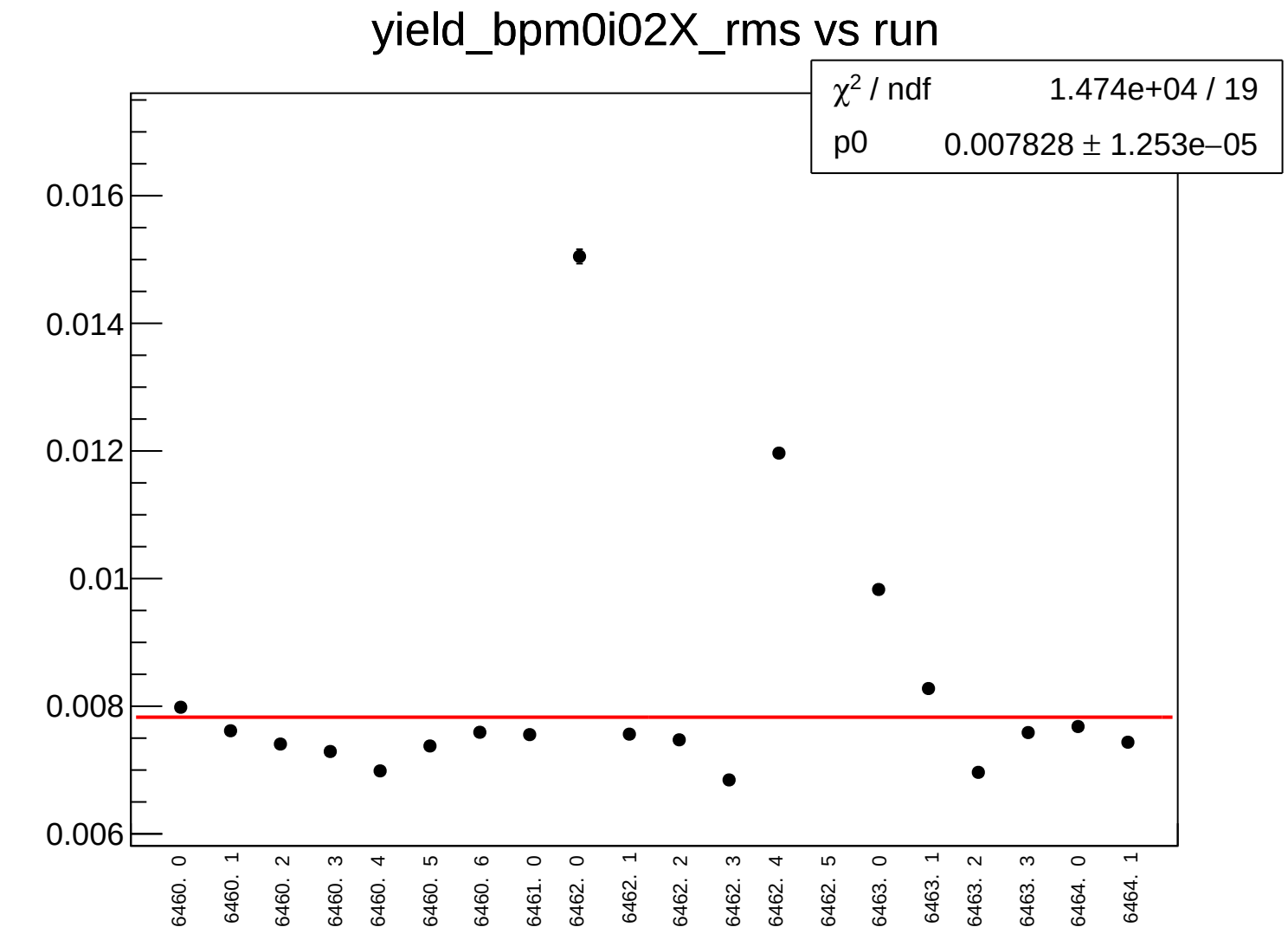

pull1D
Entries 20
Mean −7.041
Std Dev 0.304
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

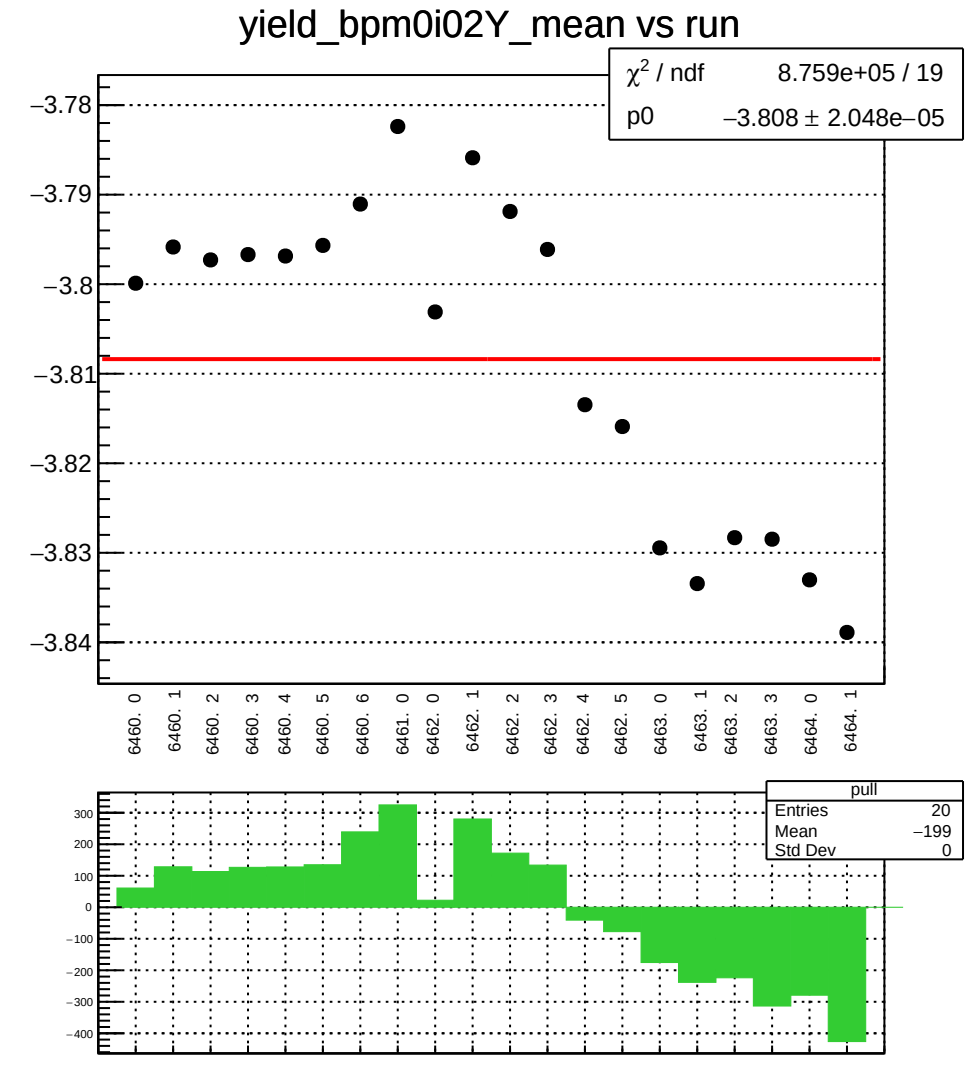

yield_bpm16Y_rms vs run
χ² / ndf 1.814e+04 / 19
p0 0.004294 ± 6.902e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

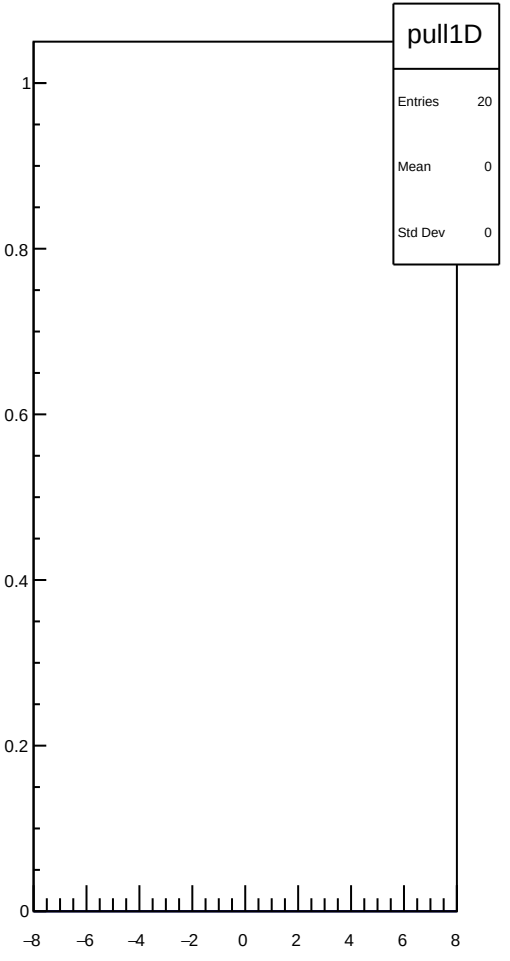

yield_bpm0i02X_mean vs run
χ² / ndf 7.77e+04 / 19
p0 0.4462 ± 1.772e−05
0.454
0.452
0.45
0.448
0.446
0.444
0.442
0.44
0.438
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

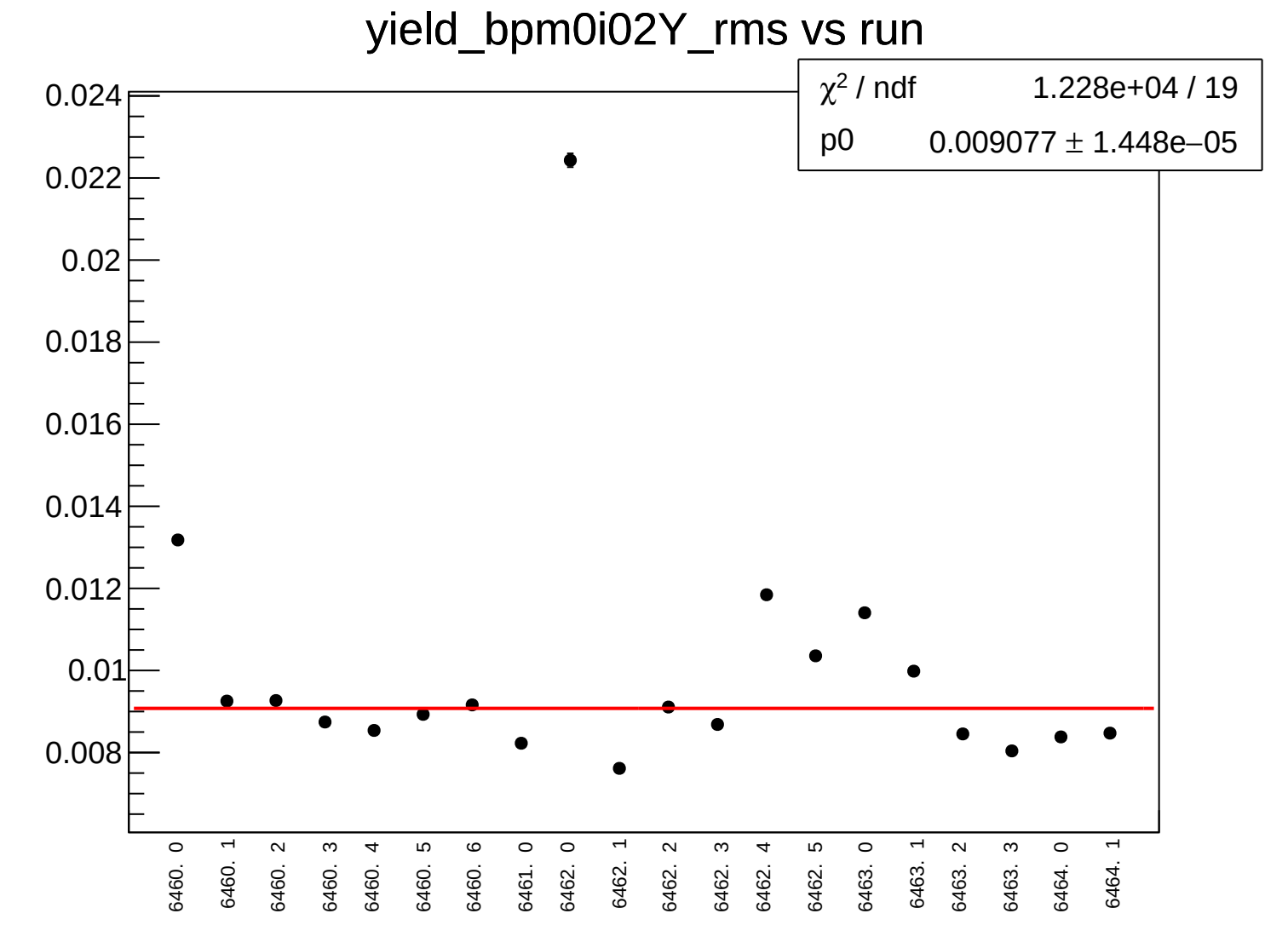

pull
Entries 20
Mean 243.2
Std Dev 0
100
50
0
−50
−100

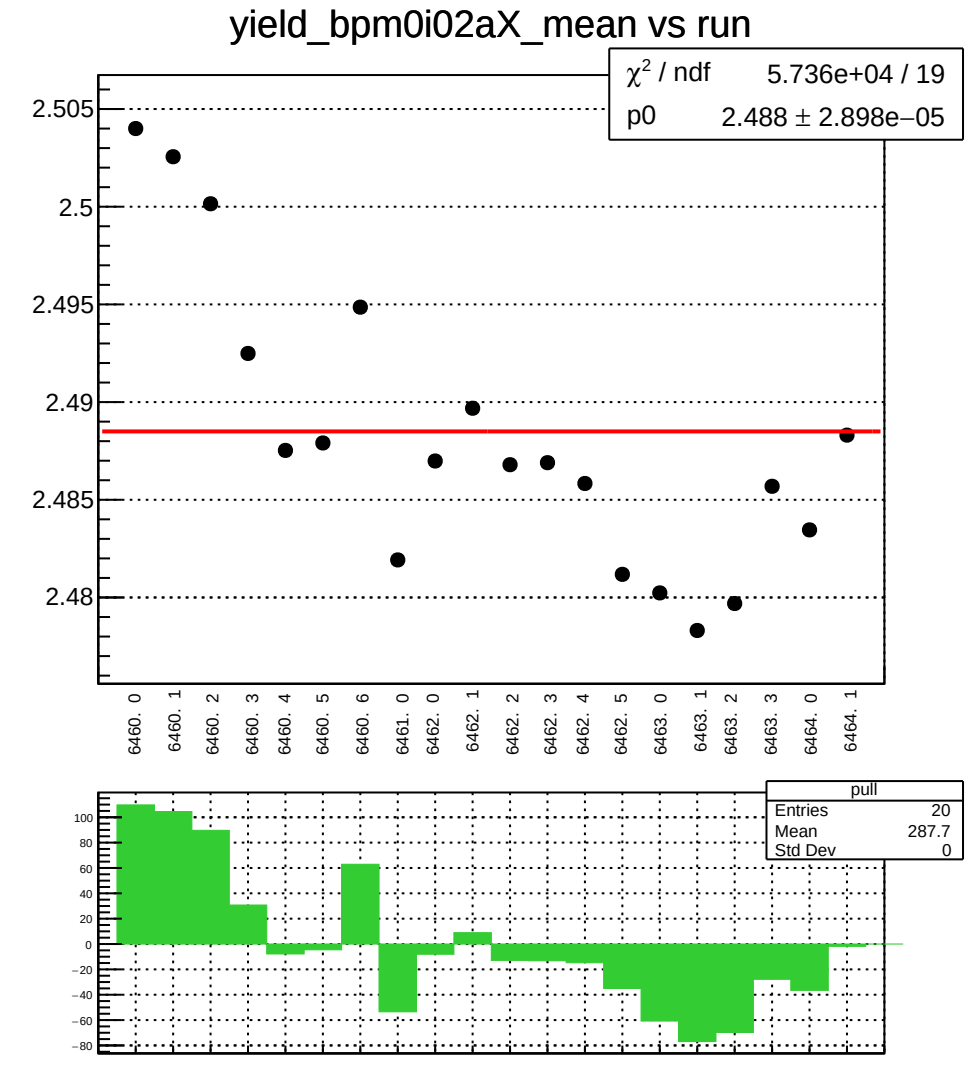

pull1D
Entries 20
Mean −4.696
Std Dev 2.193
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

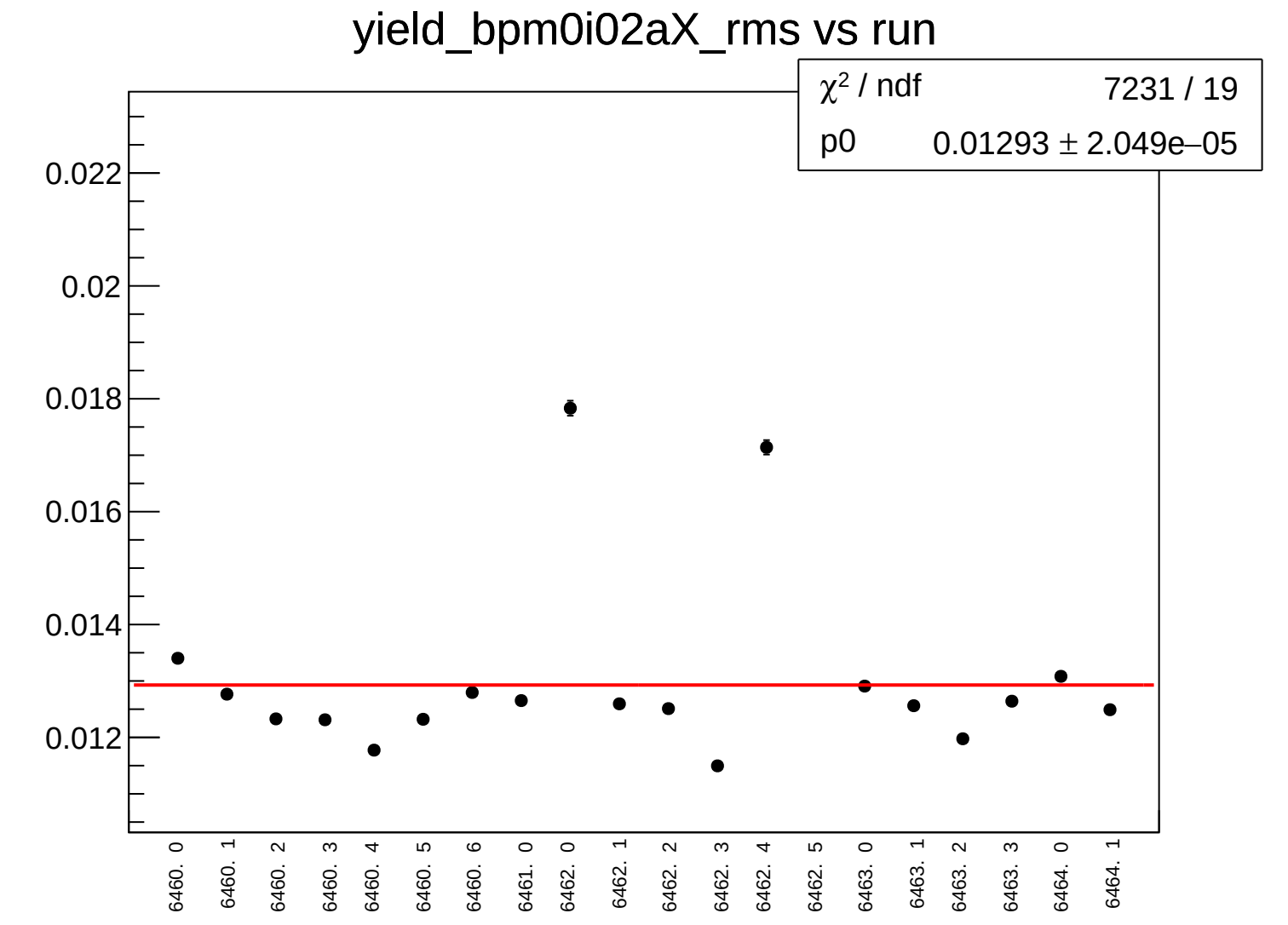

yield_bpm0i02X_rms vs run
χ² / ndf 1.474e+04 / 19
p0 0.007828 ± 1.253e−05
0.016
0.014
0.012
0.01
0.008
0.006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

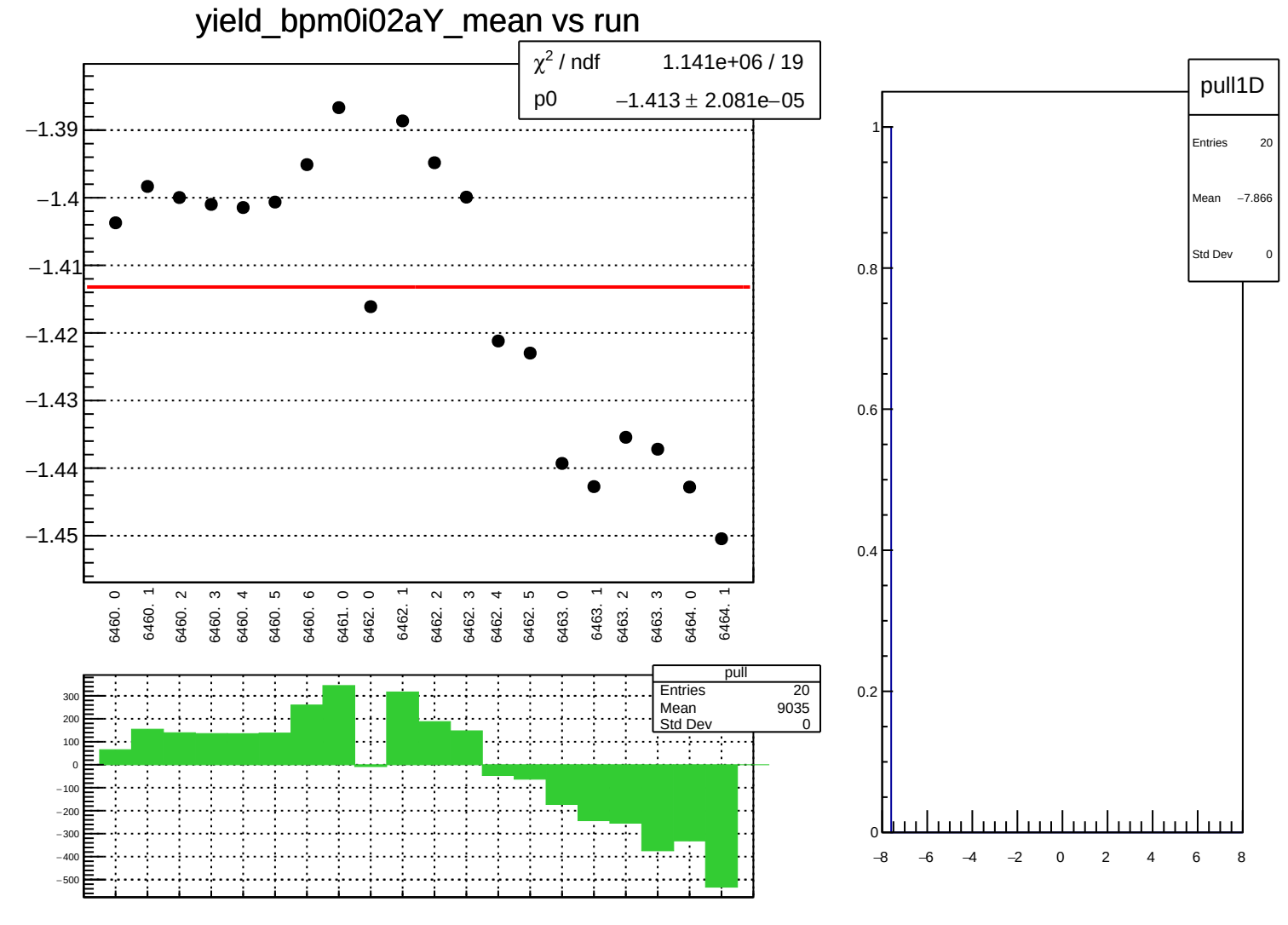

yield_bpm0i02Y_mean vs run
χ² / ndf 8.759e+05 / 19
p0 −3.808 ± 2.048e−05
−3.78
−3.79
−3.8
−3.81
−3.82
−3.83
−3.84
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −199
Std Dev 0
300
200
100
0
−100
−200
−300
−400

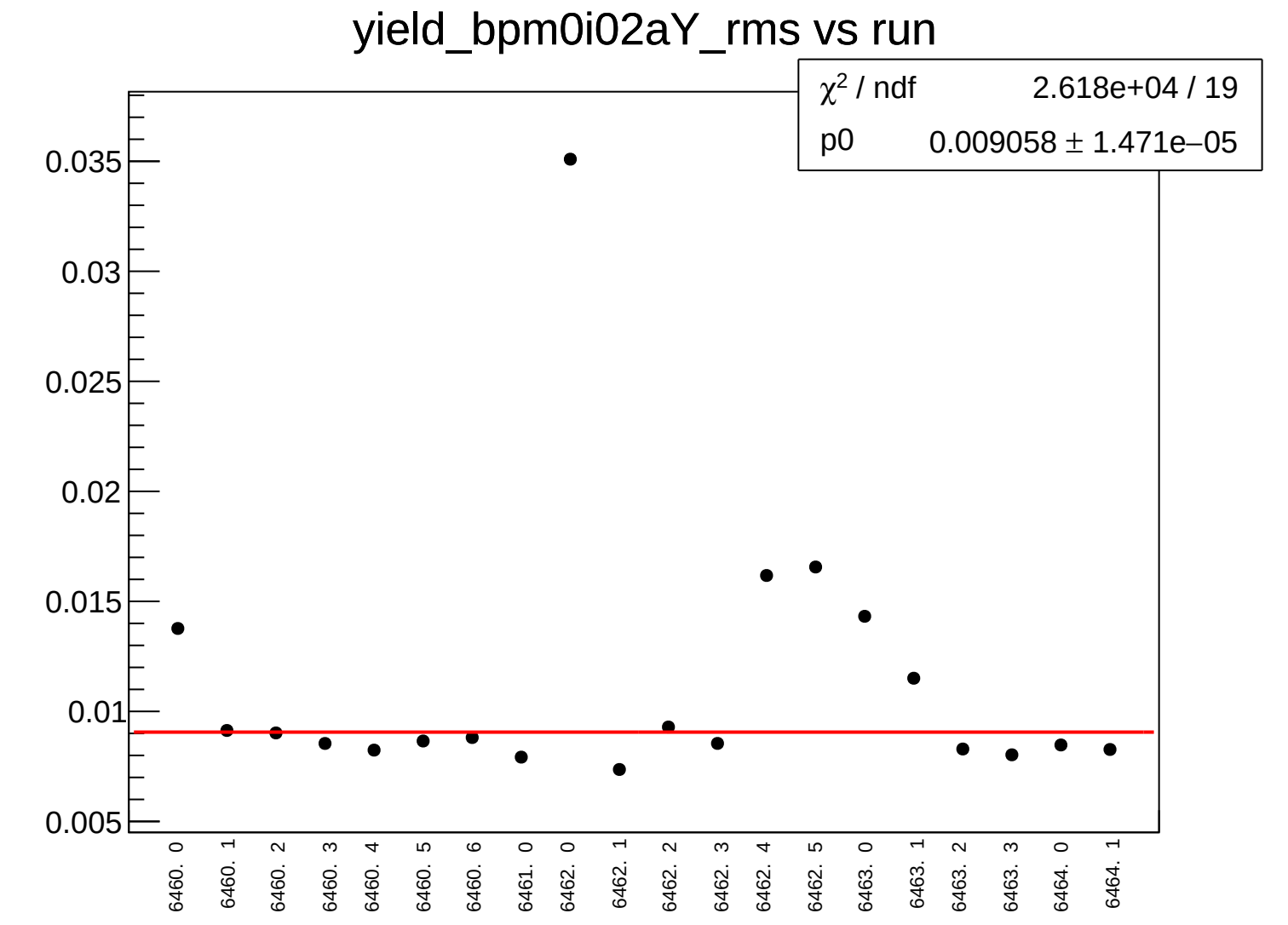

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

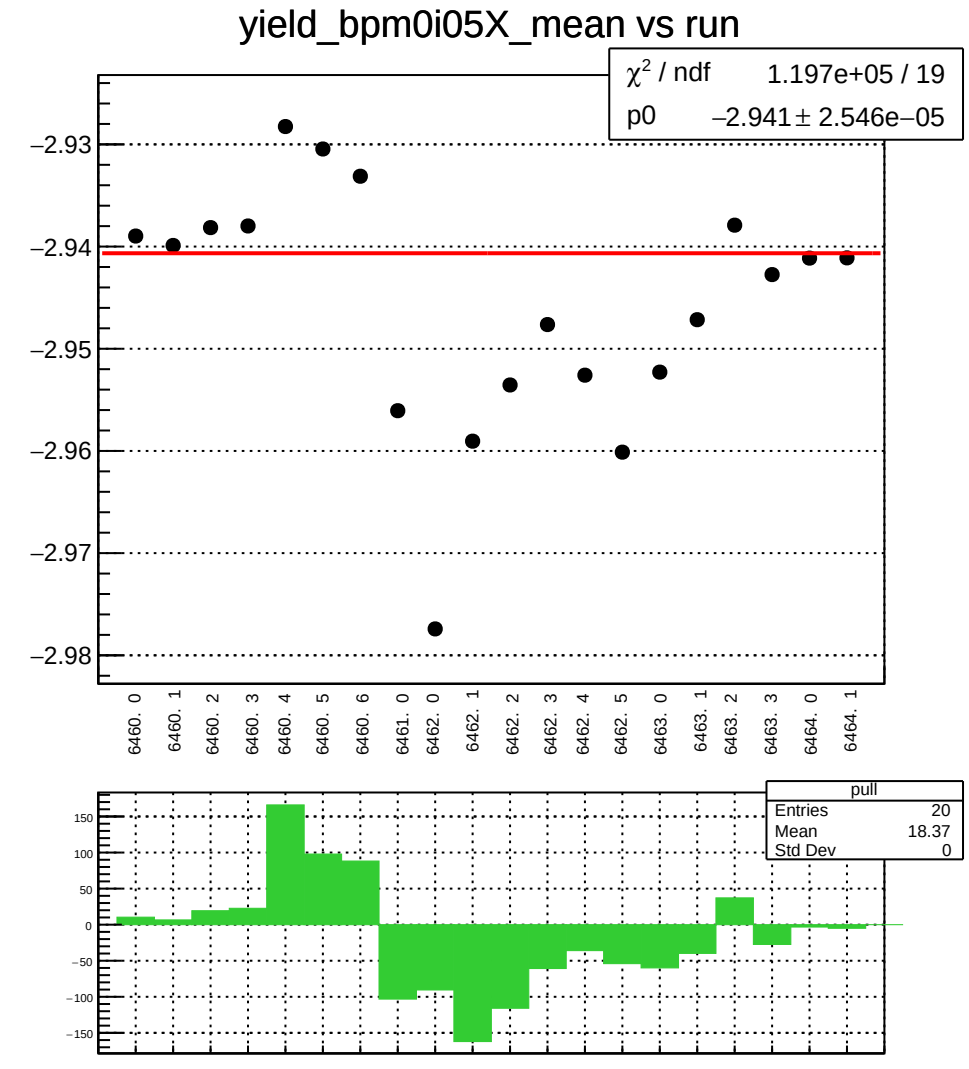

yield_bpm0i02Y_rms vs run
χ² / ndf 1.228e+04 / 19
p0 0.009077 ± 1.448e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

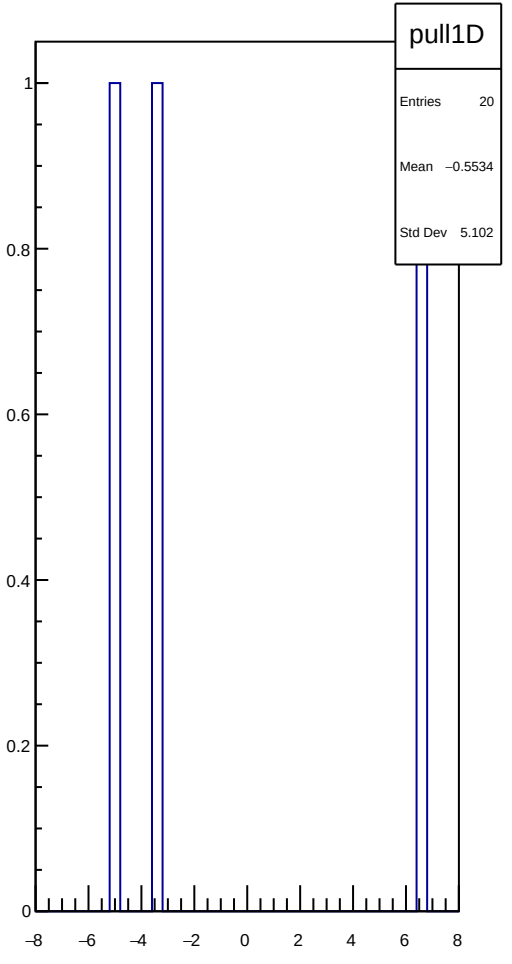

yield_bpm0i02aX_mean vs run
χ² / ndf 5.736e+04 / 19
p0 2.488 ± 2.898e−05
2.505
2.5
2.495
2.49
2.485
2.48
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 287.7
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 20
Mean −4.723
Std Dev 2.468
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 7231 / 19
p0 0.01293 ± 2.049e−05
0.022
0.02
0.018
0.016
0.014
0.012
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


yield_bpm0i02aY_mean vs run
χ² / ndf 1.141e+06 / 19
p0 −1.413 ± 2.081e−05
−1.39
−1.4
−1.41
−1.42
−1.43
−1.44
−1.45
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9035
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 20
Mean −7.866
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 2.618e+04 / 19
p0 0.009058 ± 1.471e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


yield_bpm0i05X_mean vs run
χ² / ndf 1.197e+05 / 19
p0 −2.941 ± 2.546e−05
−2.93
−2.94
−2.95
−2.96
−2.97
−2.98
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.37
Std Dev 0
150
100
50
0
−50
−100
−150


pull1D
Entries 20
Mean −0.5534
Std Dev 5.102
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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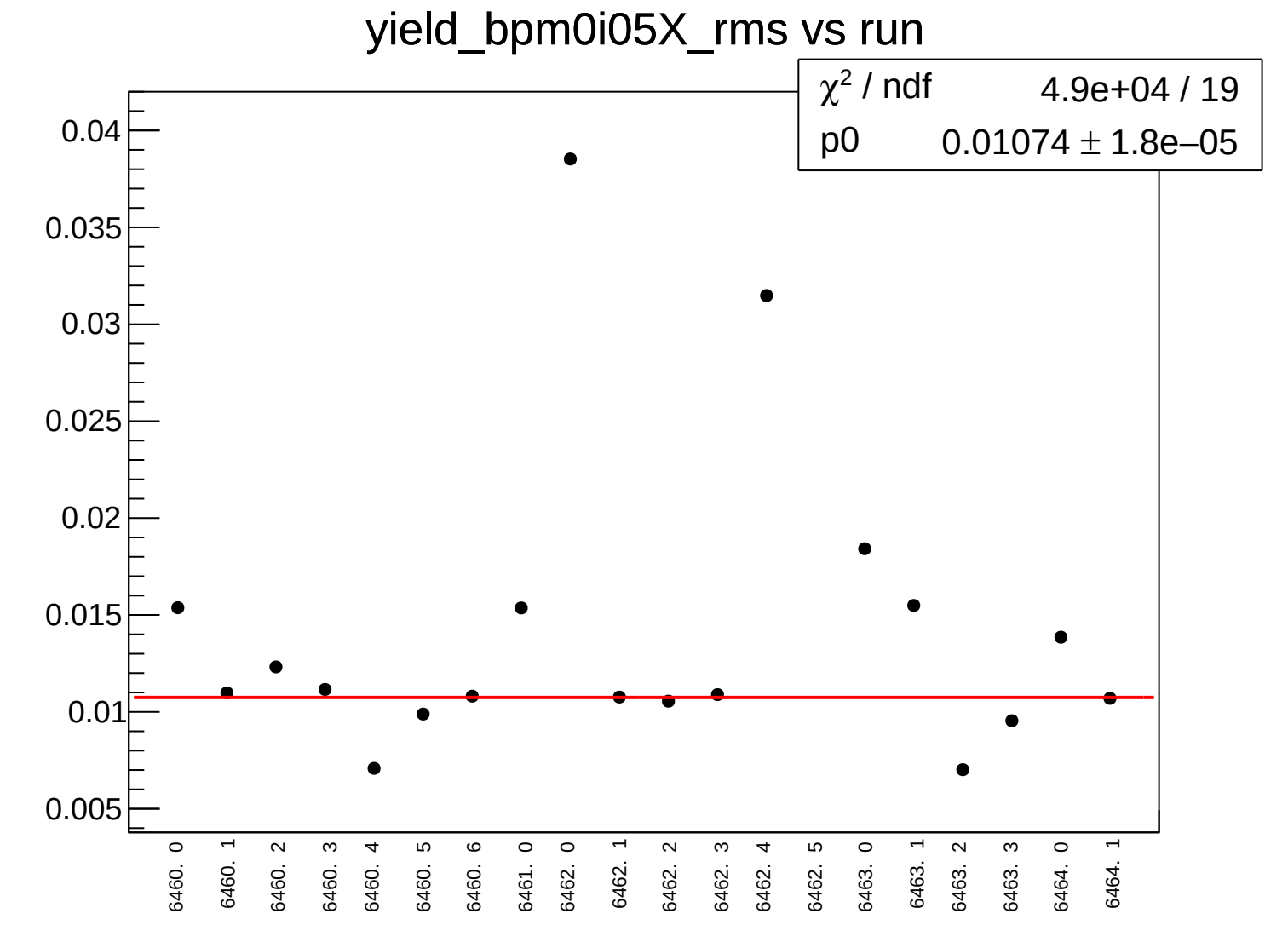
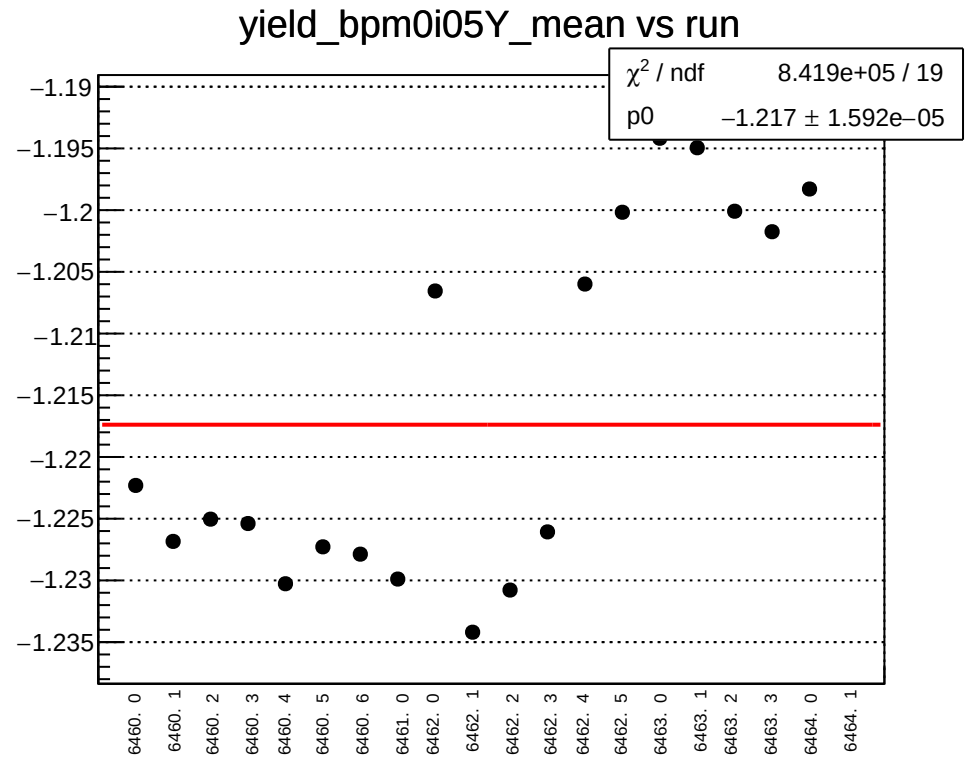
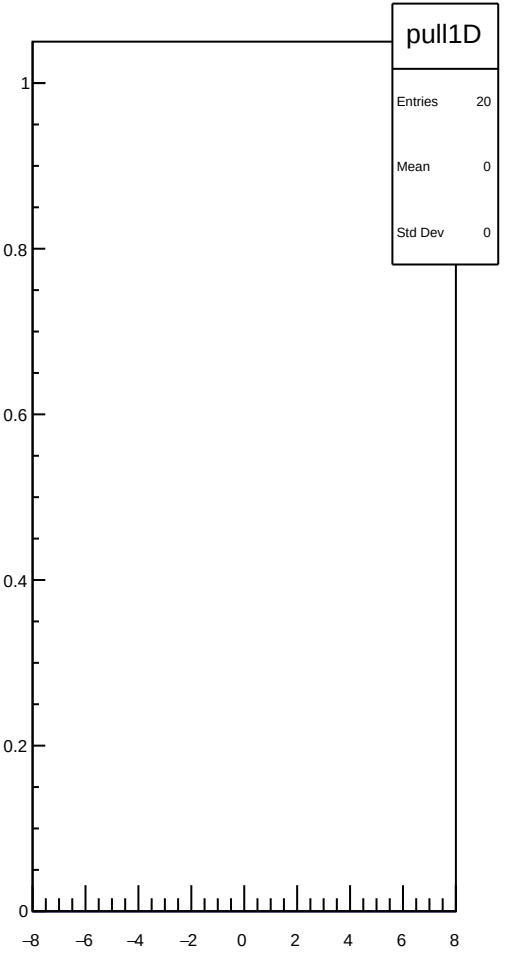
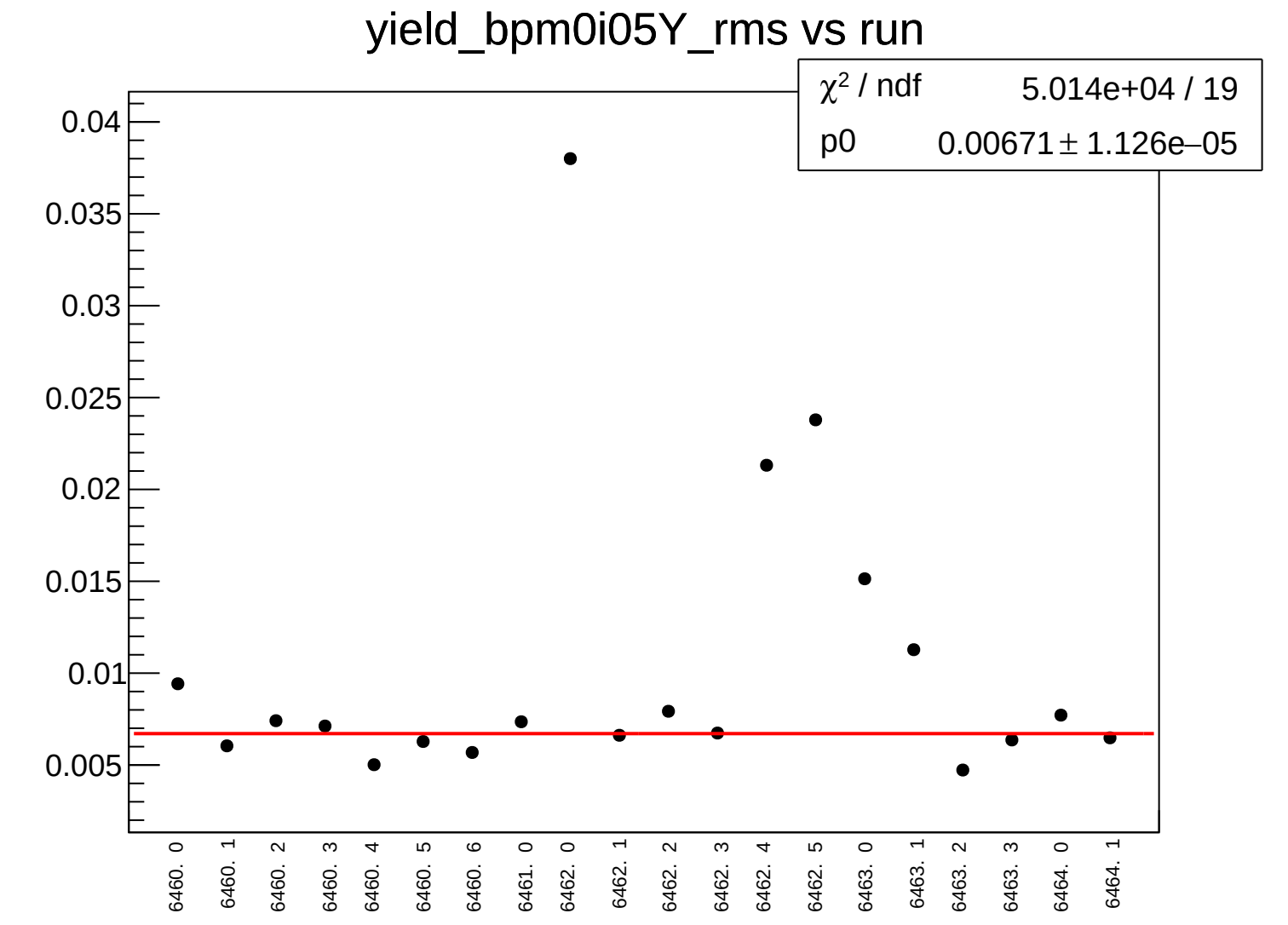
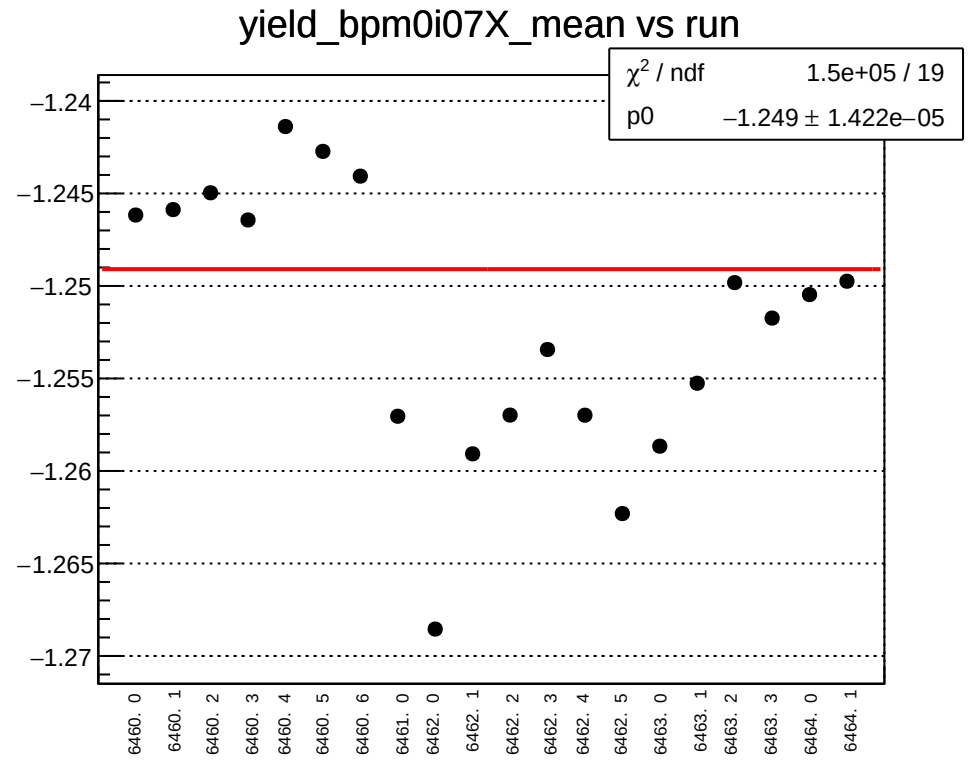
0
2
4
6
8

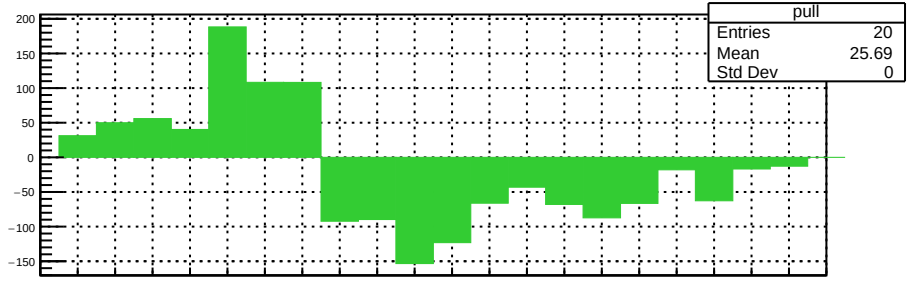

yield_bpm0i05X_rms vs run
χ² / ndf 4.9e+04 / 19
p0 0.01074 ± 1.8e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

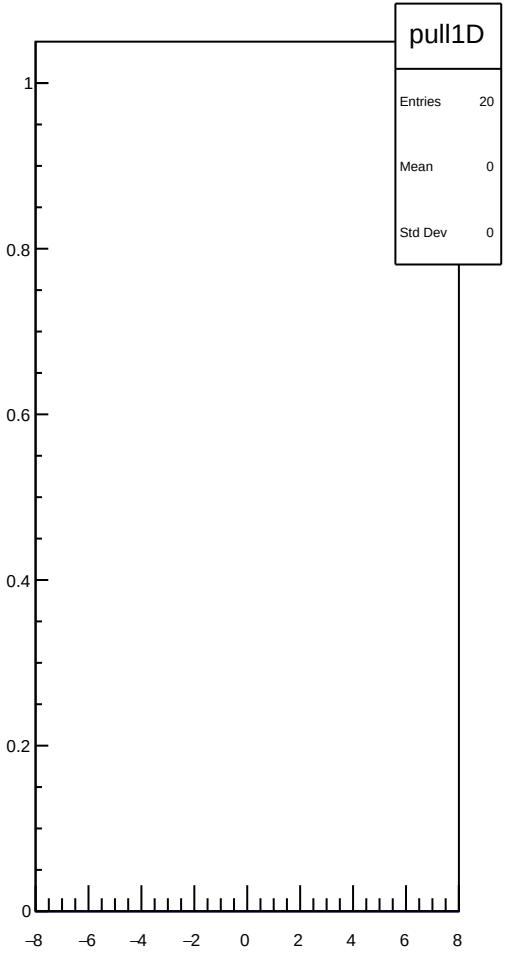

yield_bpm0i05Y_mean vs run
χ² / ndf 8.419e+05 / 19
p0 −1.217 ± 1.592e−05
−1.19
−1.195
−1.2
−1.205
−1.21
−1.215
−1.22
−1.225
−1.23
−1.235
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 216.8
Std Dev 0
400
300
200
100
0
−100
−200

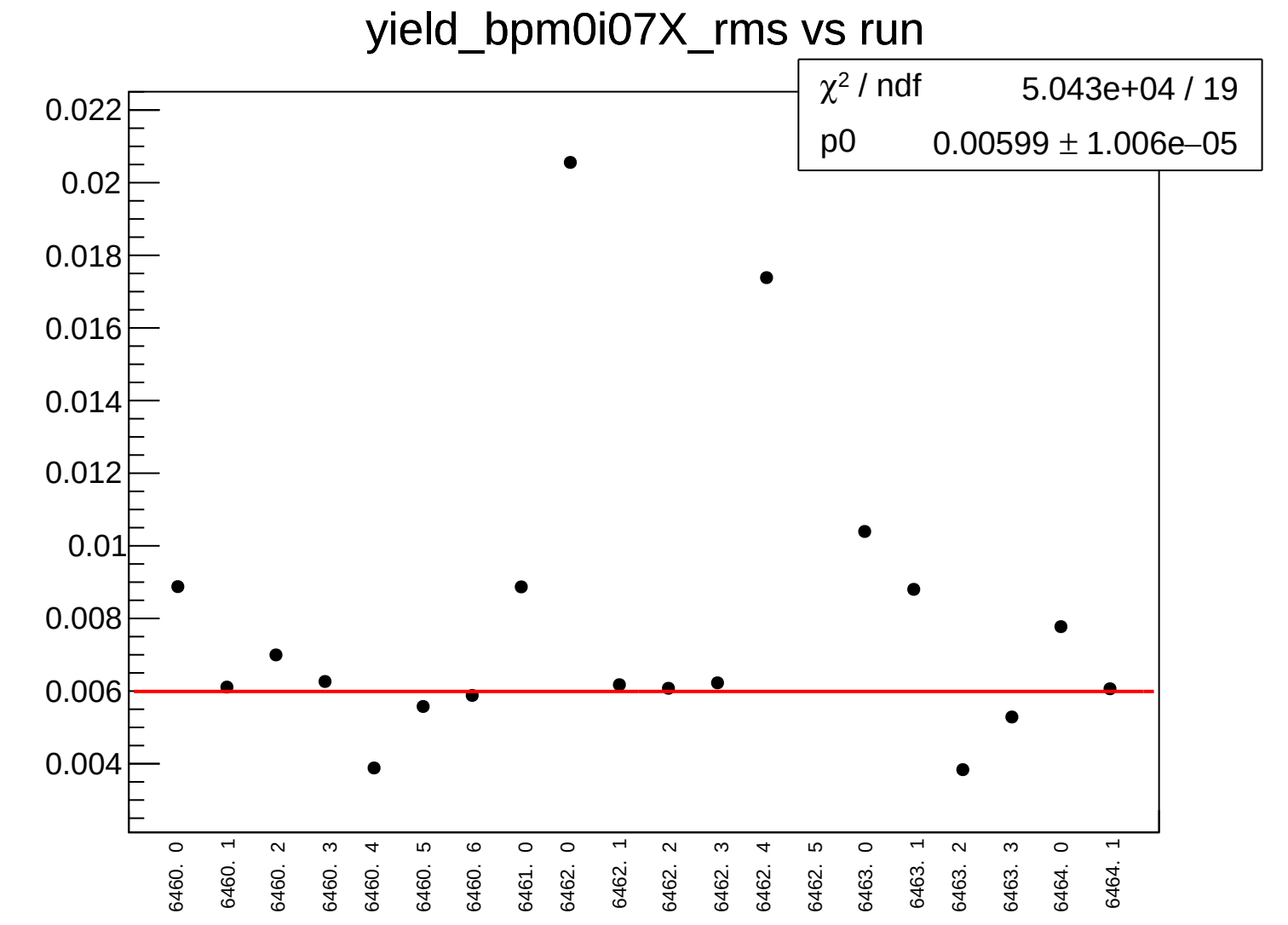

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

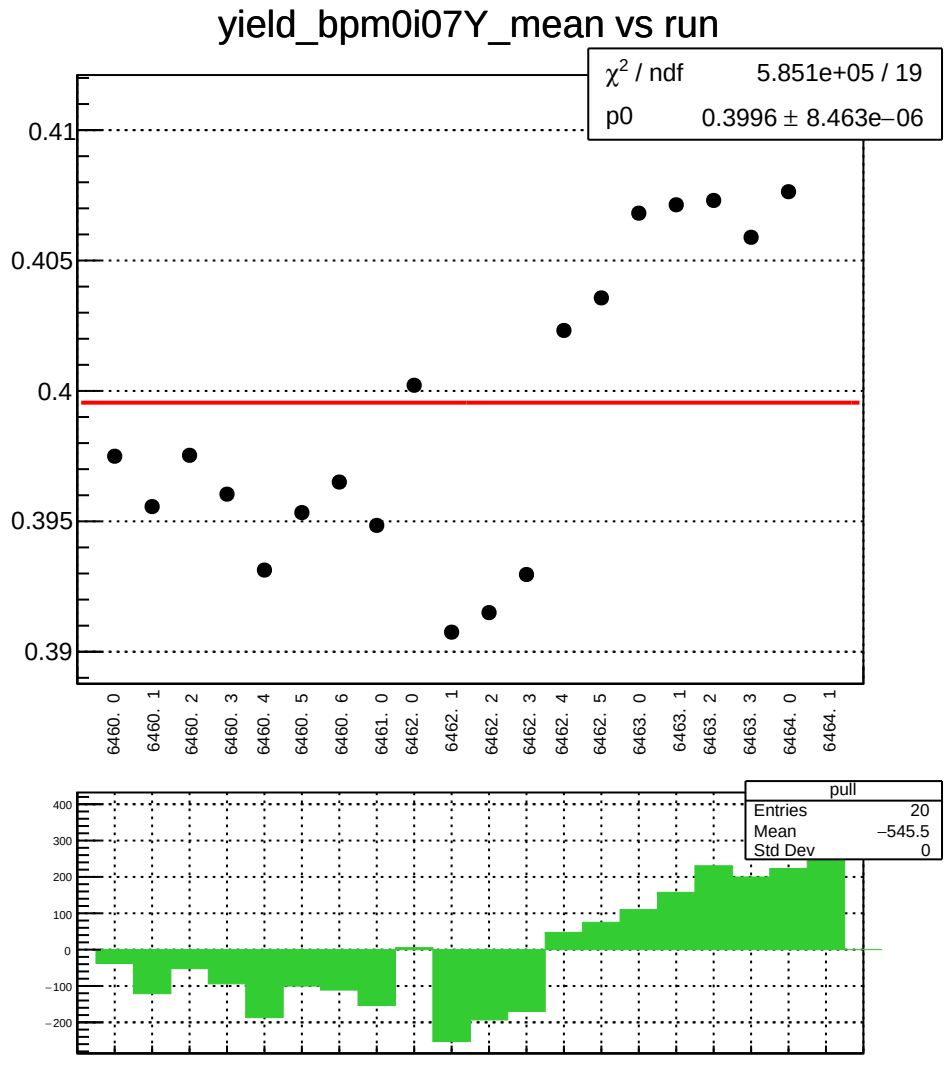

yield_bpm0i05Y_rms vs run
χ² / ndf 5.014e+04 / 19
p0 0.00671 ± 1.126e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

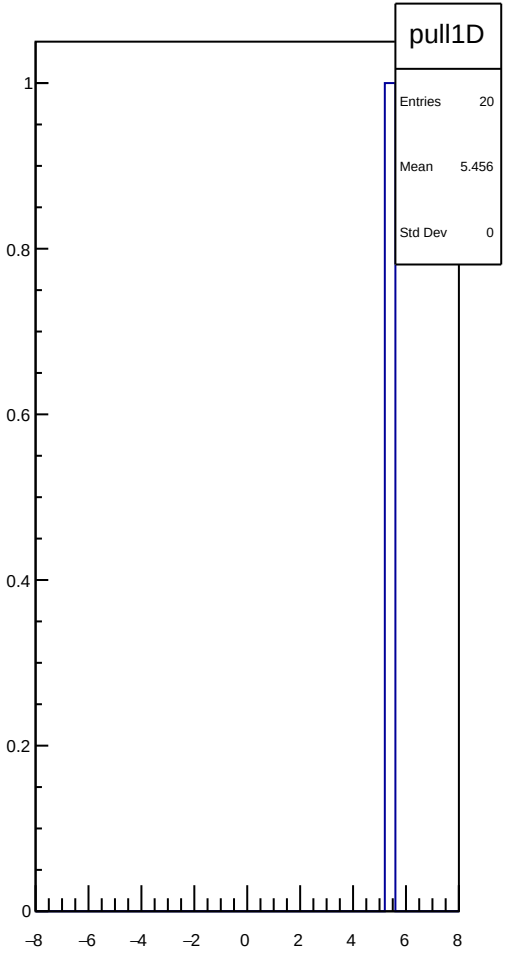

yield_bpm0i07X_mean vs run
χ² / ndf 1.5e+05 / 19
p0 −1.249 ± 1.422e−05
−1.24
−1.245
−1.25
−1.255
−1.26
−1.265
−1.27
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

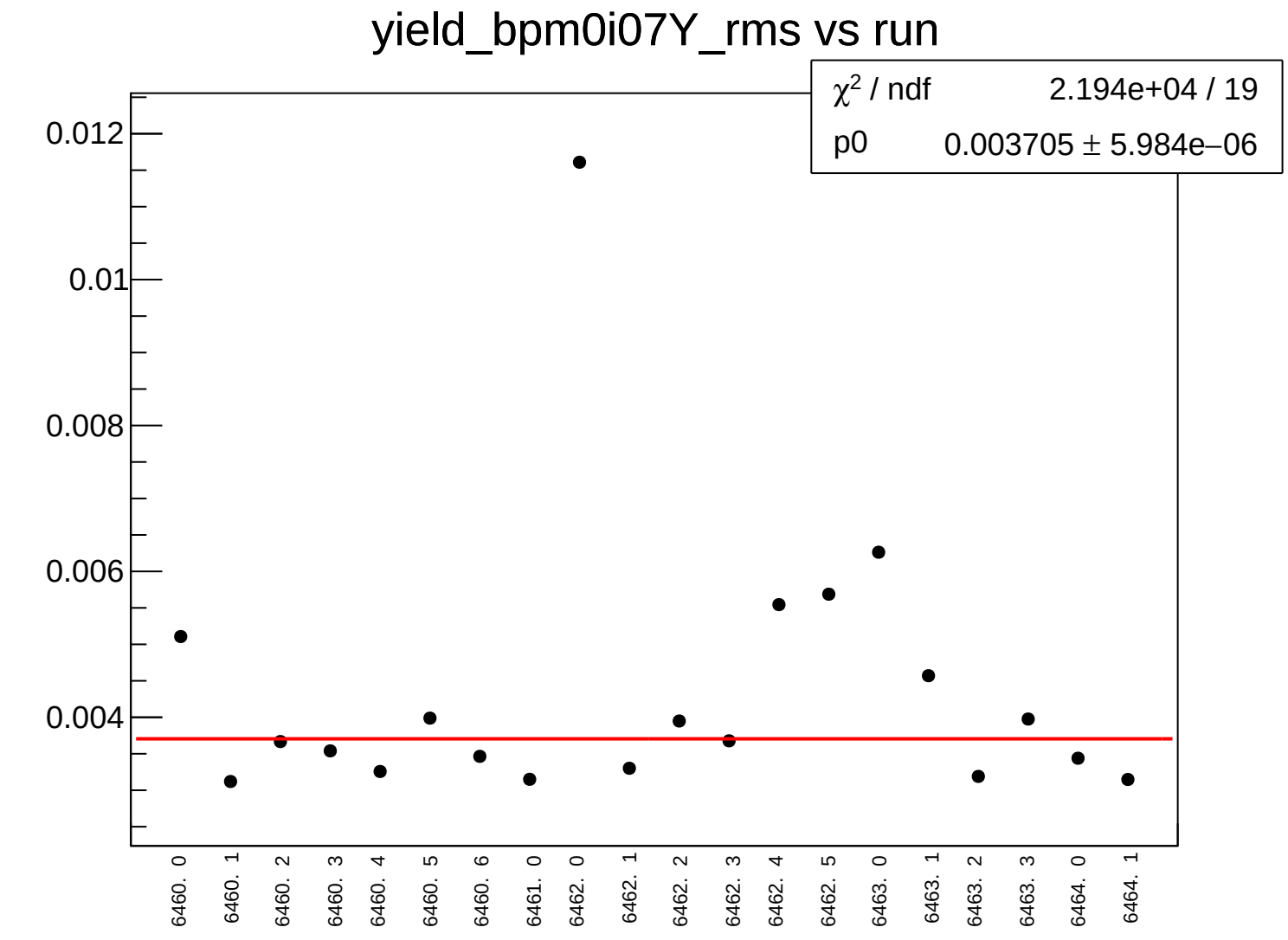

pull
Entries 20
Mean 25.69
Std Dev 0
200
150
100
50
0
−50
−100
−150

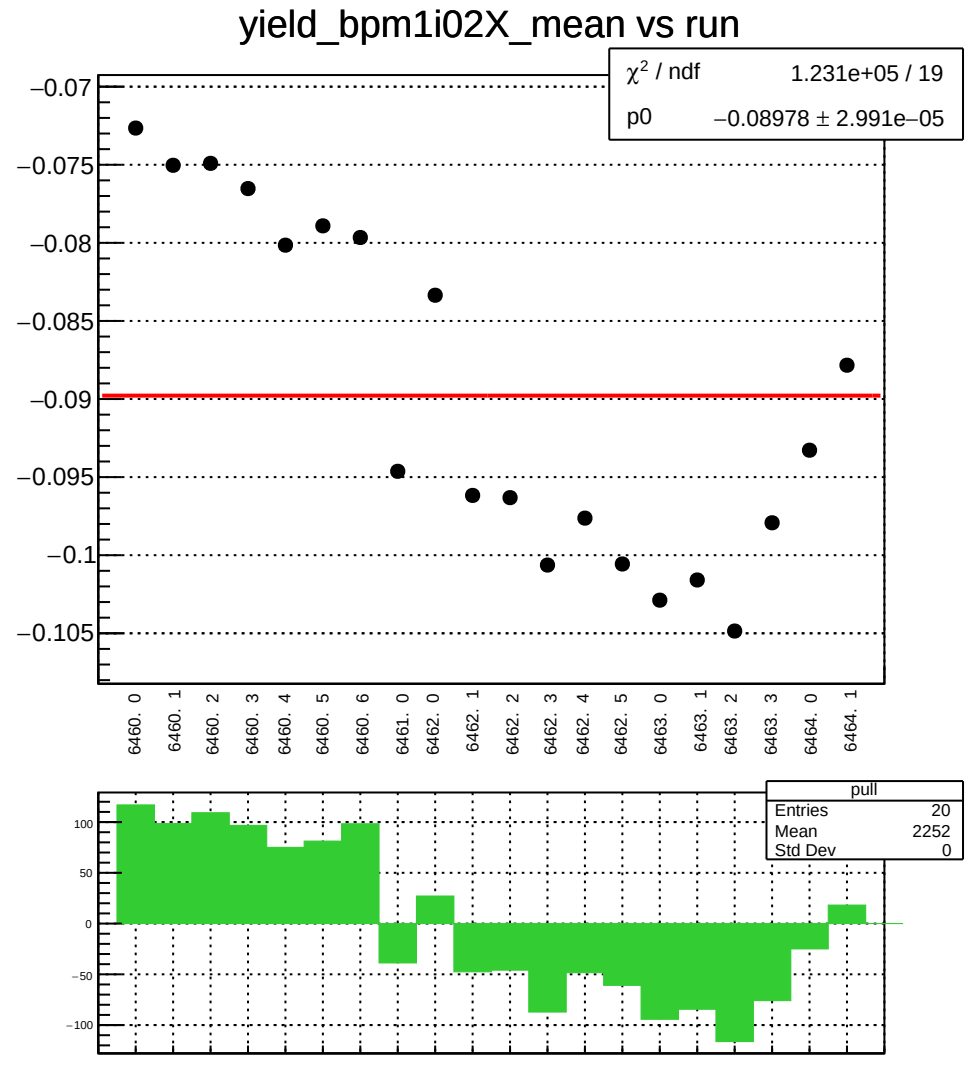

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

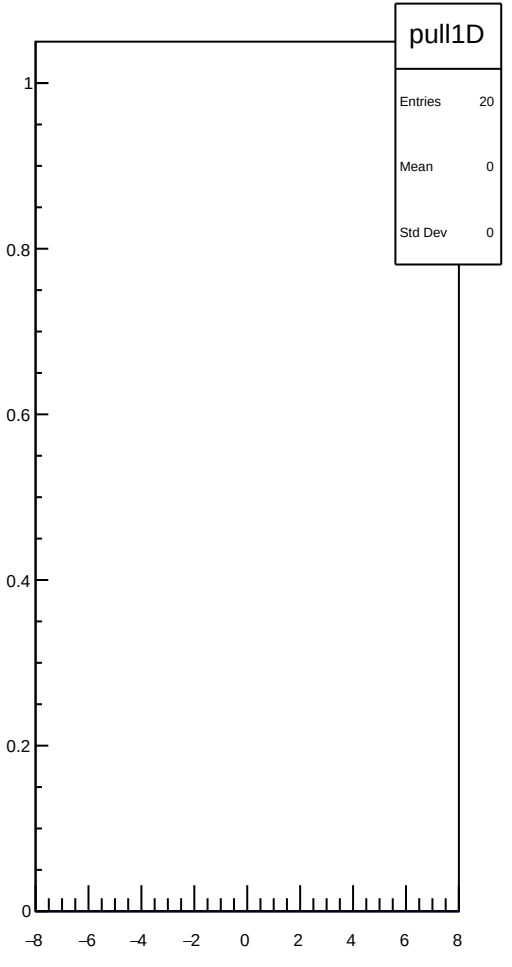

yield_bpm0i07X_rms vs run
χ² / ndf 5.043e+04 / 19
p0 0.00599 ± 1.006e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

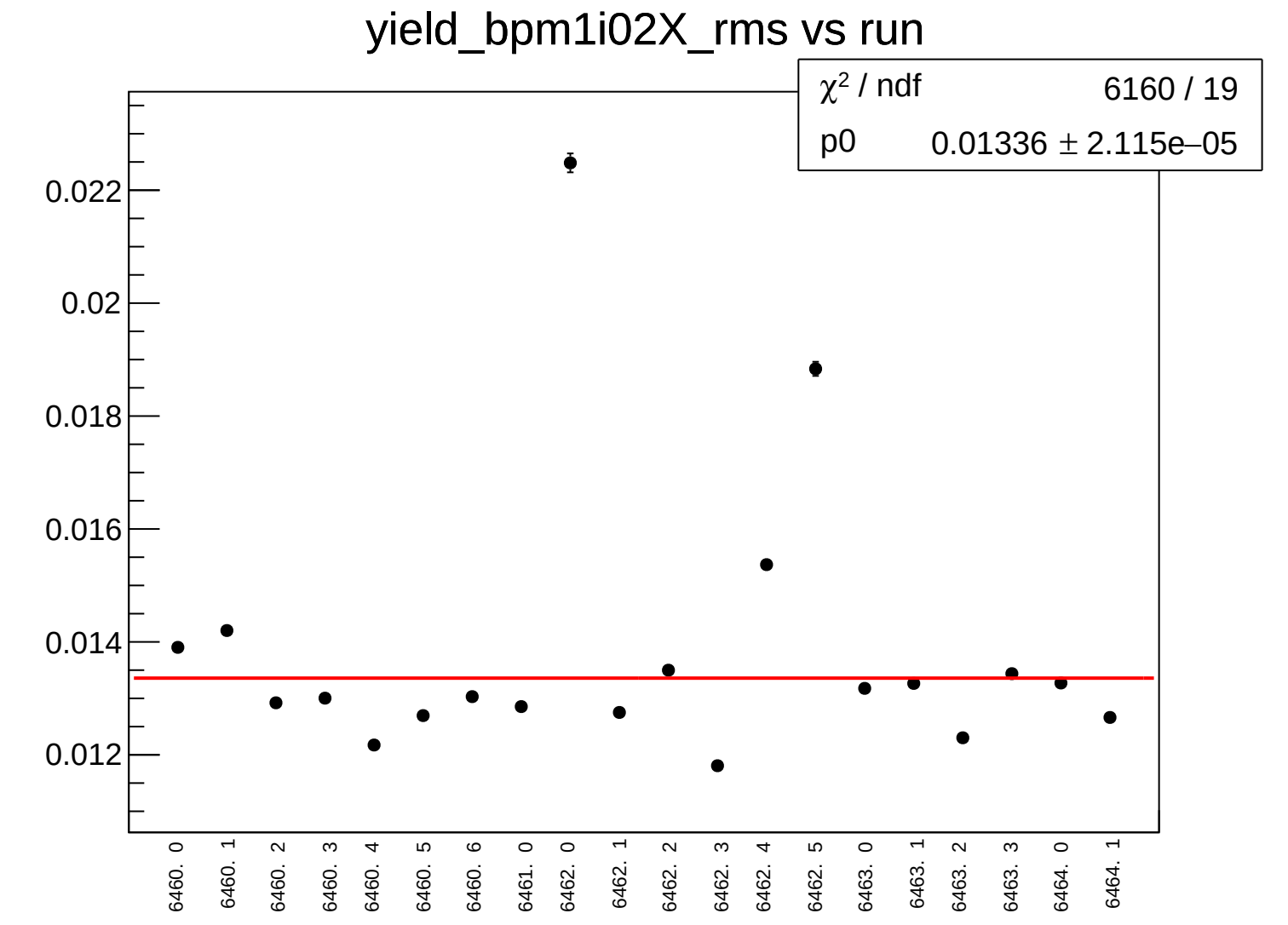

yield_bpm0i07Y_mean vs run
χ² / ndf 5.851e+05 / 19
p0 0.3996 ± 8.463e−06
0.41
0.405
0.4
0.395
0.39
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −545.5
Std Dev 0
400
300
200
100
0
−100
−200

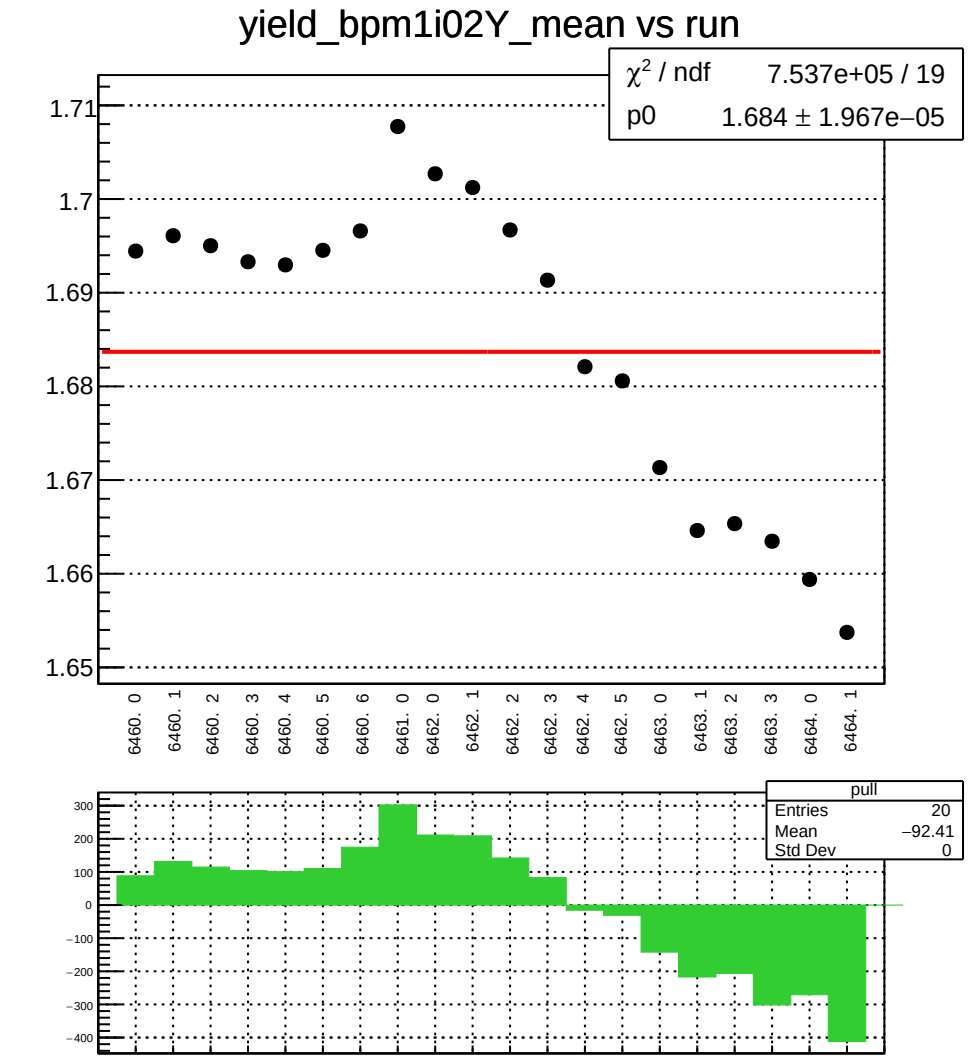

pull1D
Entries 20
Mean 5.456
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

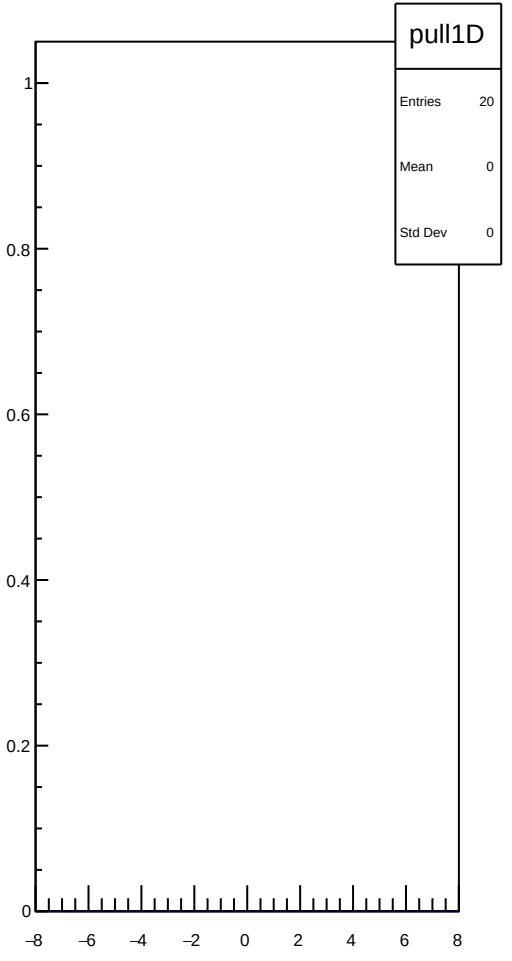

yield_bpm0i07Y_rms vs run
χ² / ndf 2.194e+04 / 19
p0 0.003705 ± 5.984e−06
0.012
0.01
0.008
0.006
0.004
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

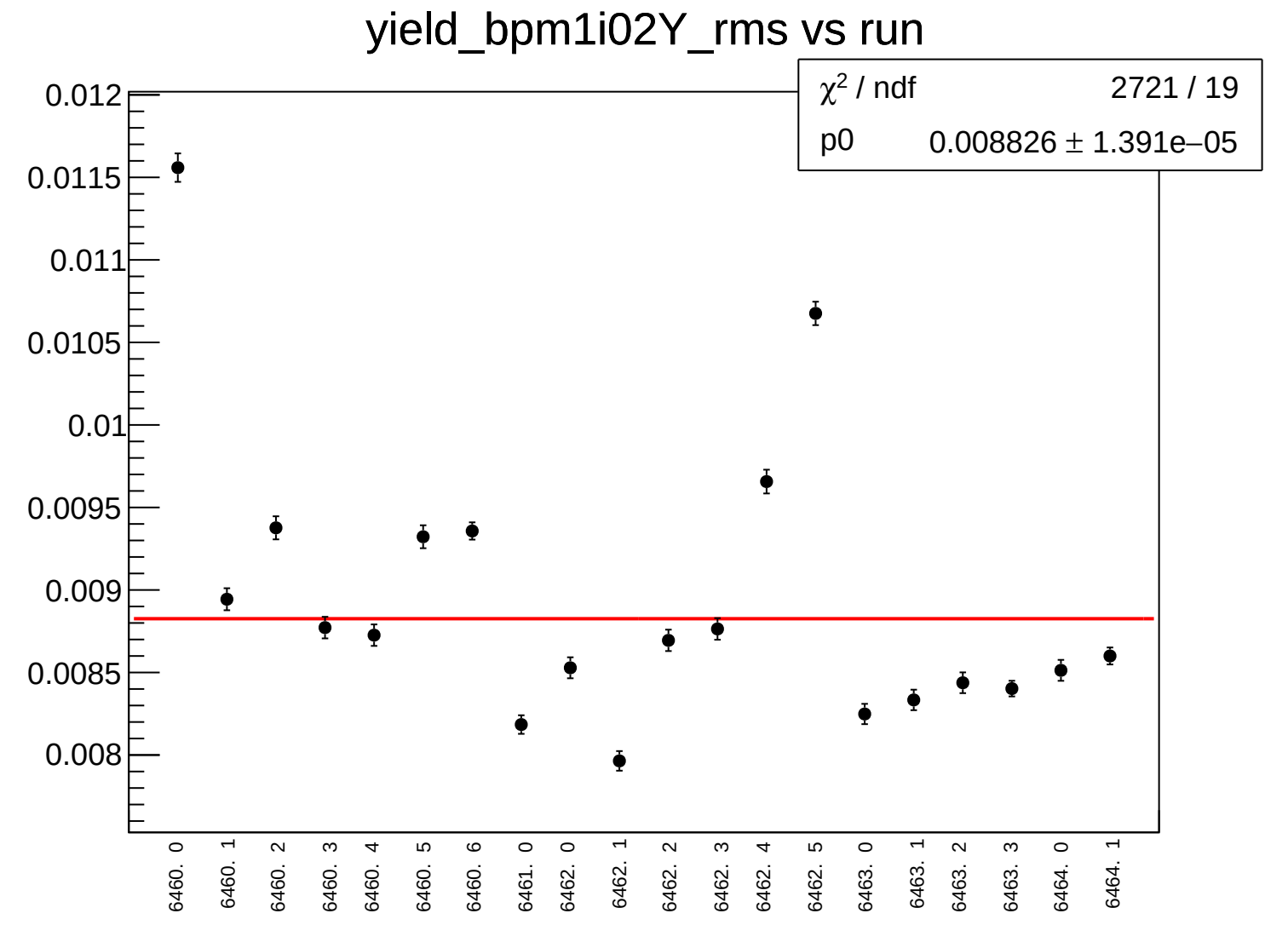

yield_bpm1i02X_mean vs run
χ² / ndf 1.231e+05 / 19
p0 −0.08978 ± 2.991e−05
−0.07
−0.075
−0.08
−0.085
−0.09
−0.095
−0.1
−0.105
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2252
Std Dev 0
100
50
0
−50
−100

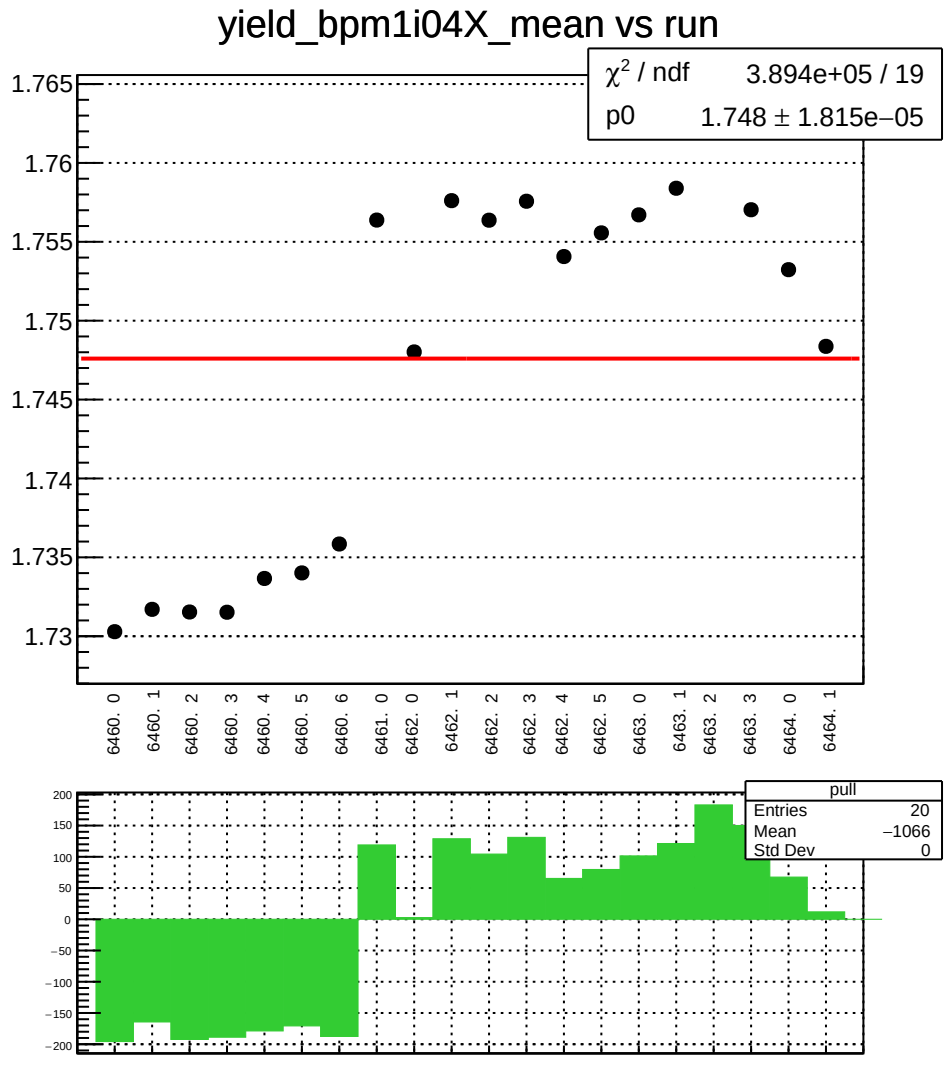

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

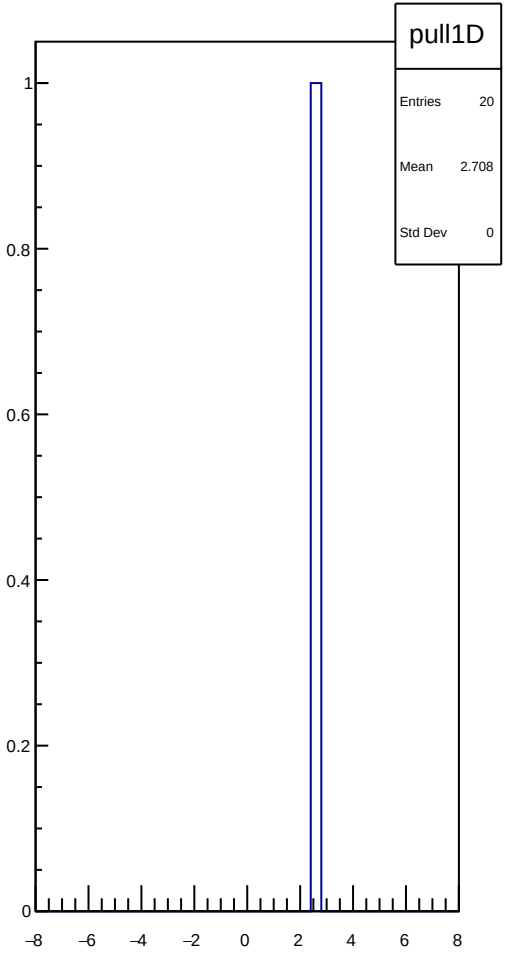

yield_bpm1i02X_rms vs run
χ² / ndf 6160 / 19
p0 0.01336 ± 2.115e–05
0.022
0.02
0.018
0.016
0.014
0.012
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

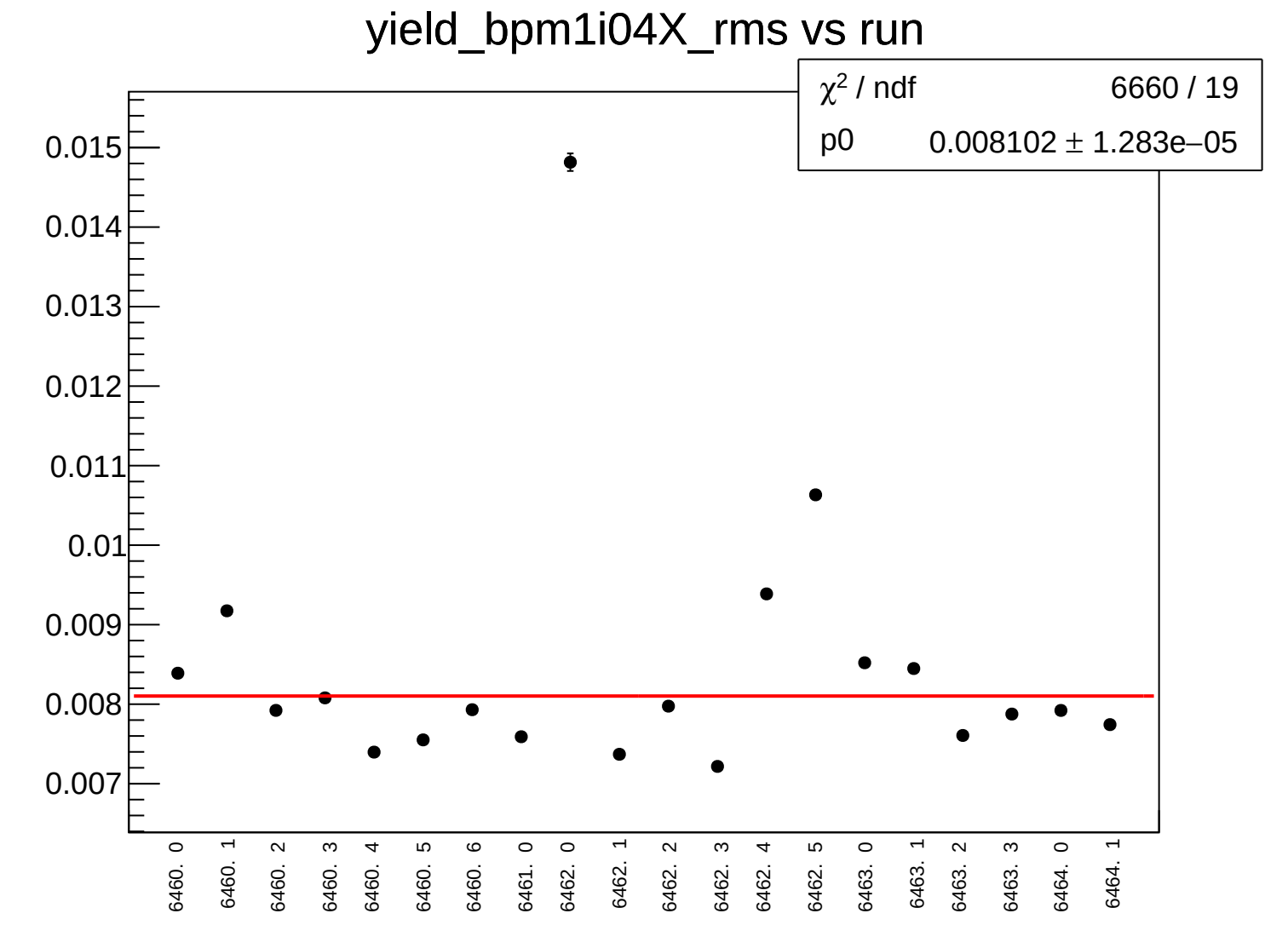

yield_bpm1i02Y_mean vs run
χ² / ndf 7.537e+05 / 19
p0 1.684 ± 1.967e−05
1.71
1.7
1.69
1.68
1.67
1.66
1.65
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −92.41
Std Dev 0
300
200
100
0
−100
−200
−300
−400

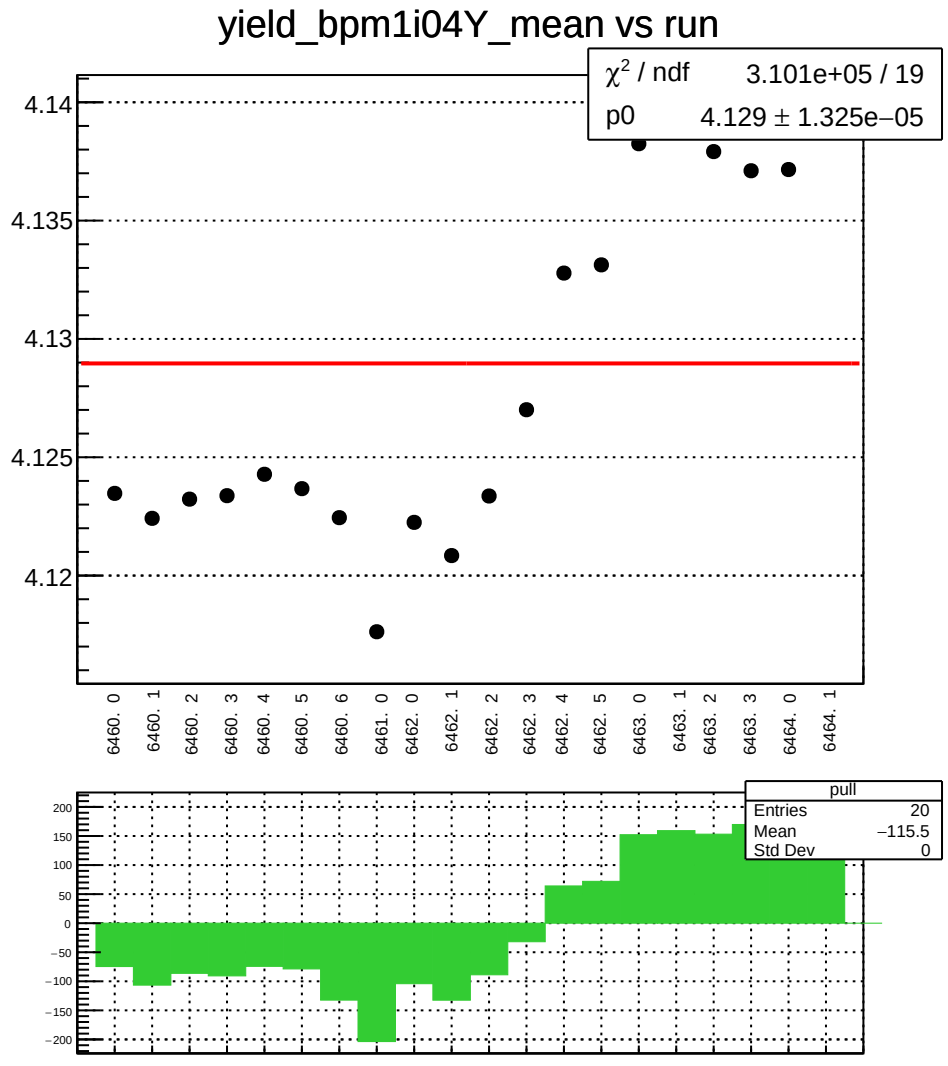

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

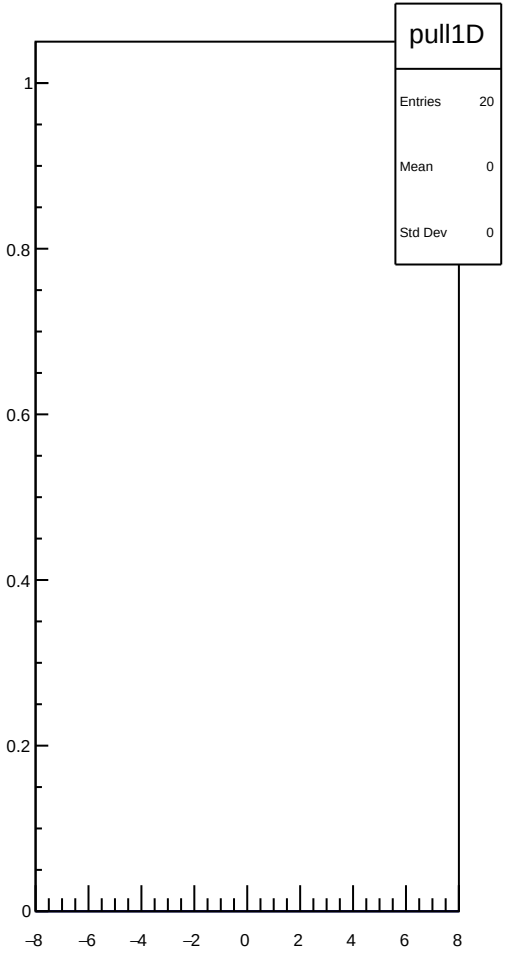

yield_bpm1i02Y_rms vs run
χ² / ndf 2721 / 19
p0 0.008826 ± 1.391e−05
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

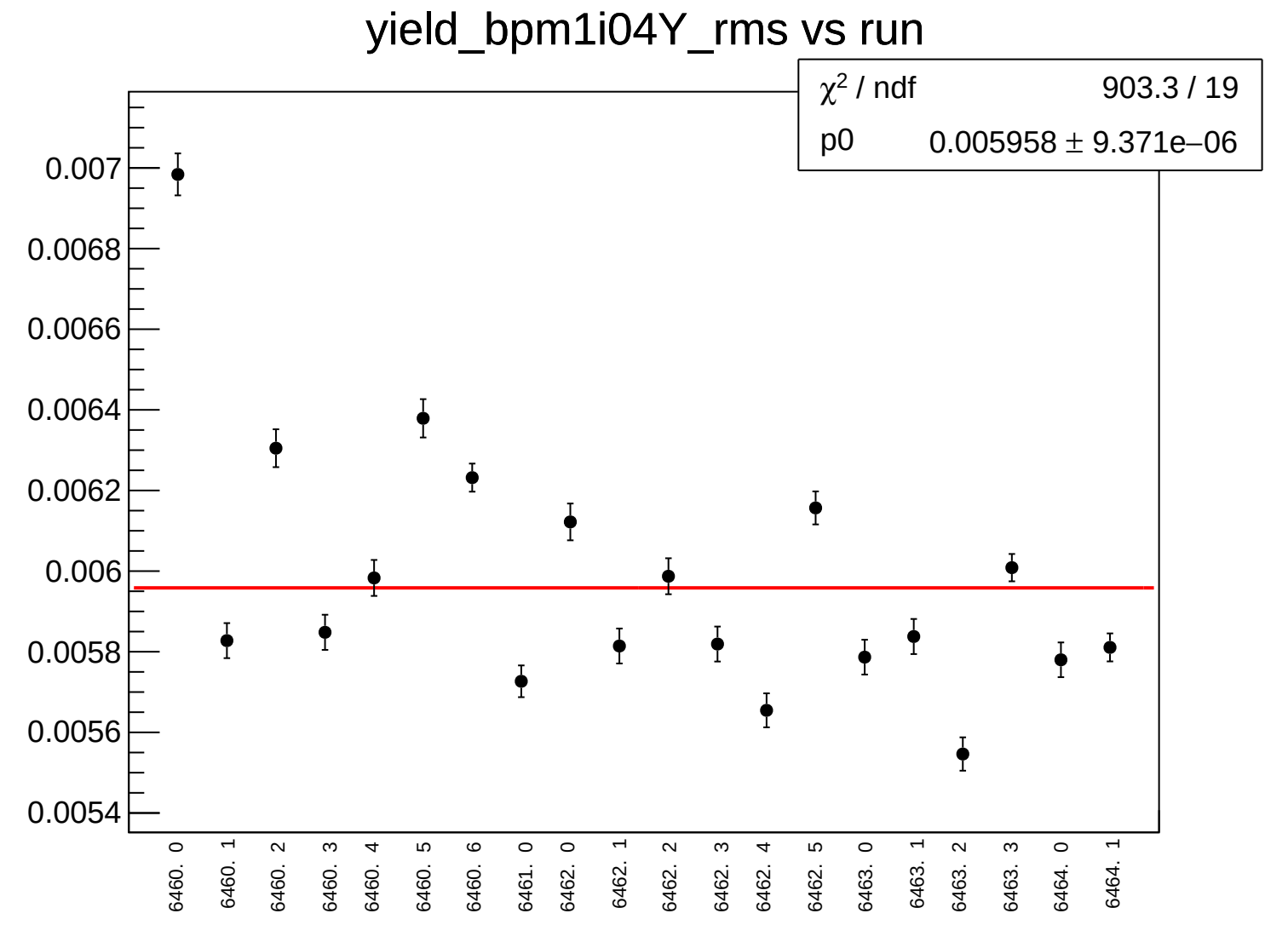

yield_bpm1i04X_mean vs run
χ² / ndf 3.894e+05 / 19
p0 1.748 ± 1.815e−05
1.765
1.76
1.755
1.75
1.745
1.74
1.735
1.73
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1066
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

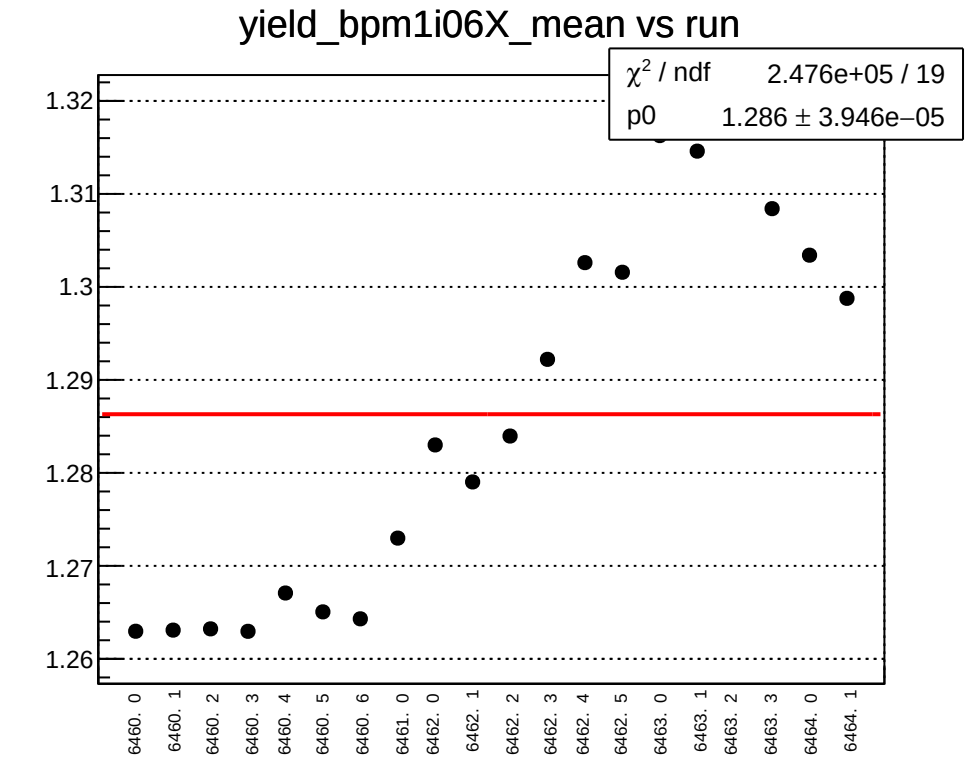

pull1D
Entries 20
Mean 2.708
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

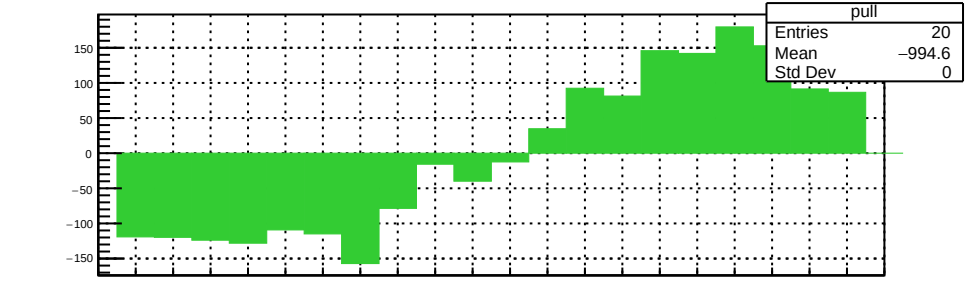

yield_bpm1i04X_rms vs run
χ² / ndf 6660 / 19
p0 0.008102 ± 1.283e−05
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

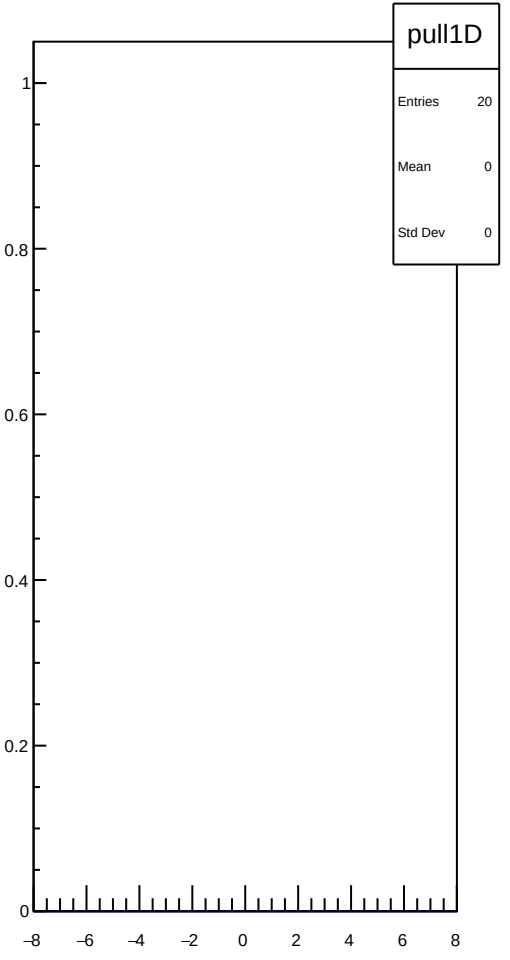

yield_bpm1i04Y_mean vs run
χ² / ndf 3.101e+05 / 19
p0 4.129 ± 1.325e−05
4.14
4.135
4.13
4.125
4.12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −115.5
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

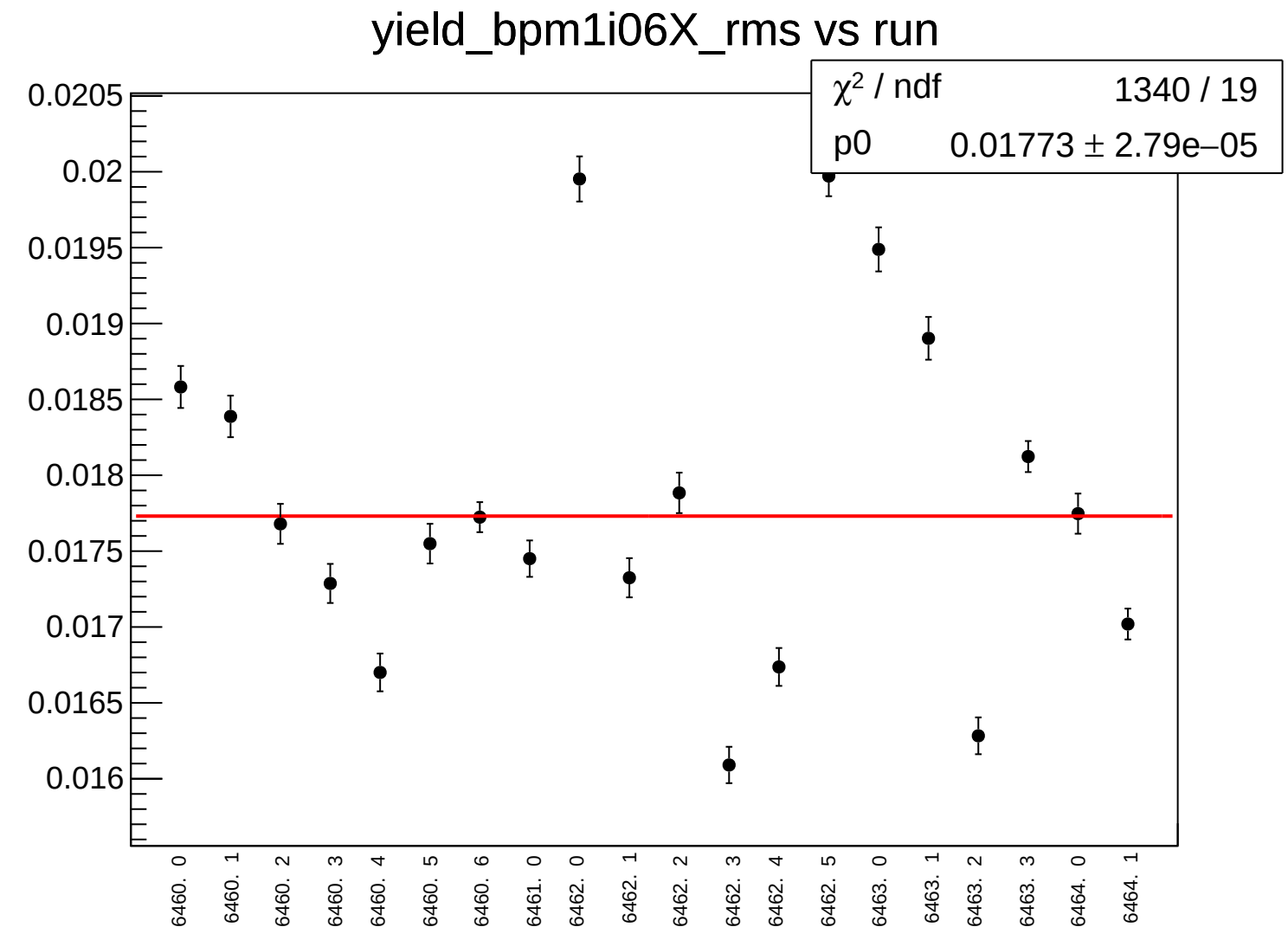

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

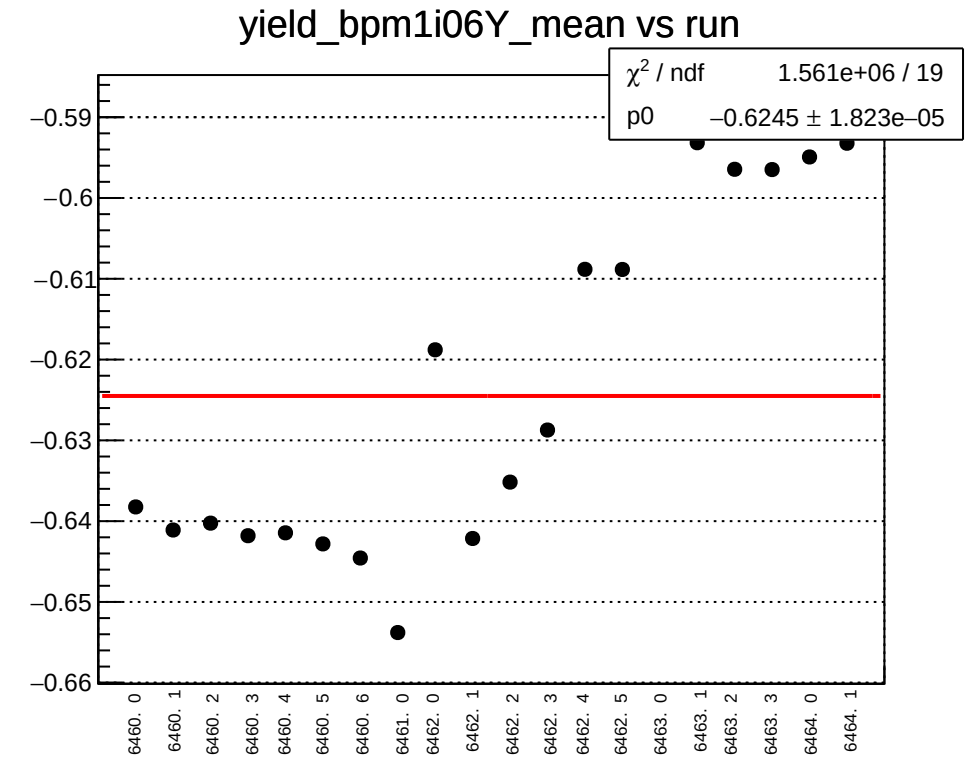

yield_bpm1i04Y_rms vs run
χ² / ndf 903.3 / 19
p0 0.005958 ± 9.371e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

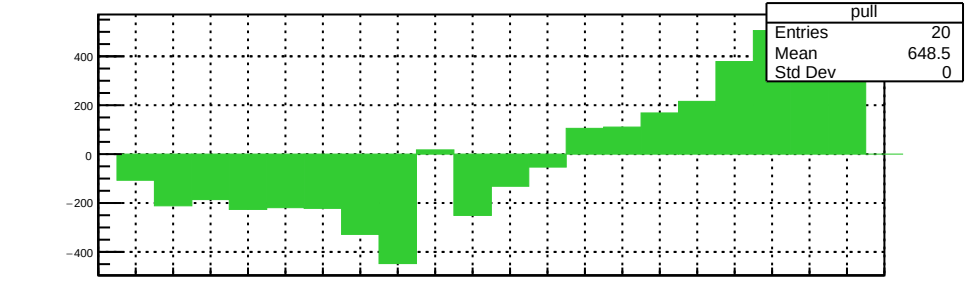

yield_bpm1i06X_mean vs run
χ² / ndf 2.476e+05 / 19
p0 1.286 ± 3.946e−05
1.32
1.31
1.3
1.29
1.28
1.27
1.26
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

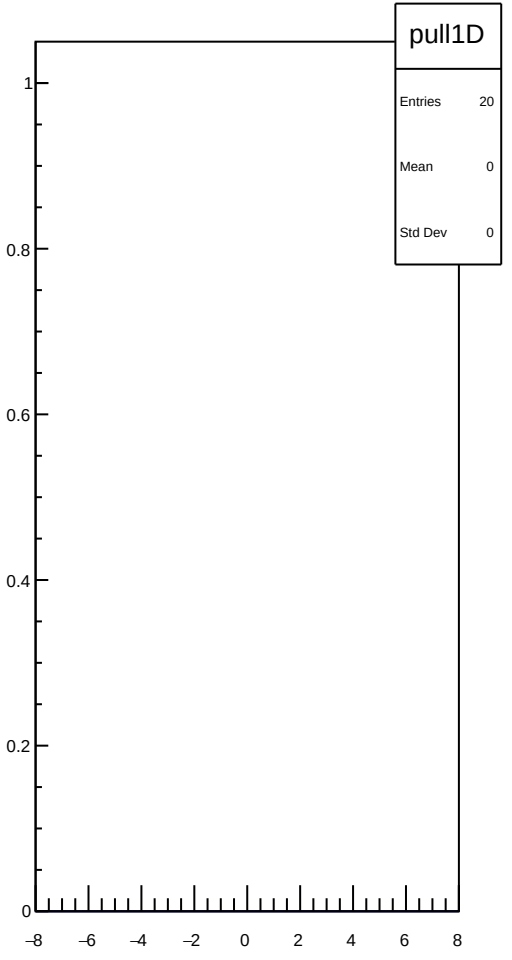

pull
Entries 20
Mean −994.6
Std Dev 0
150
100
50
0
−50
−100
−150

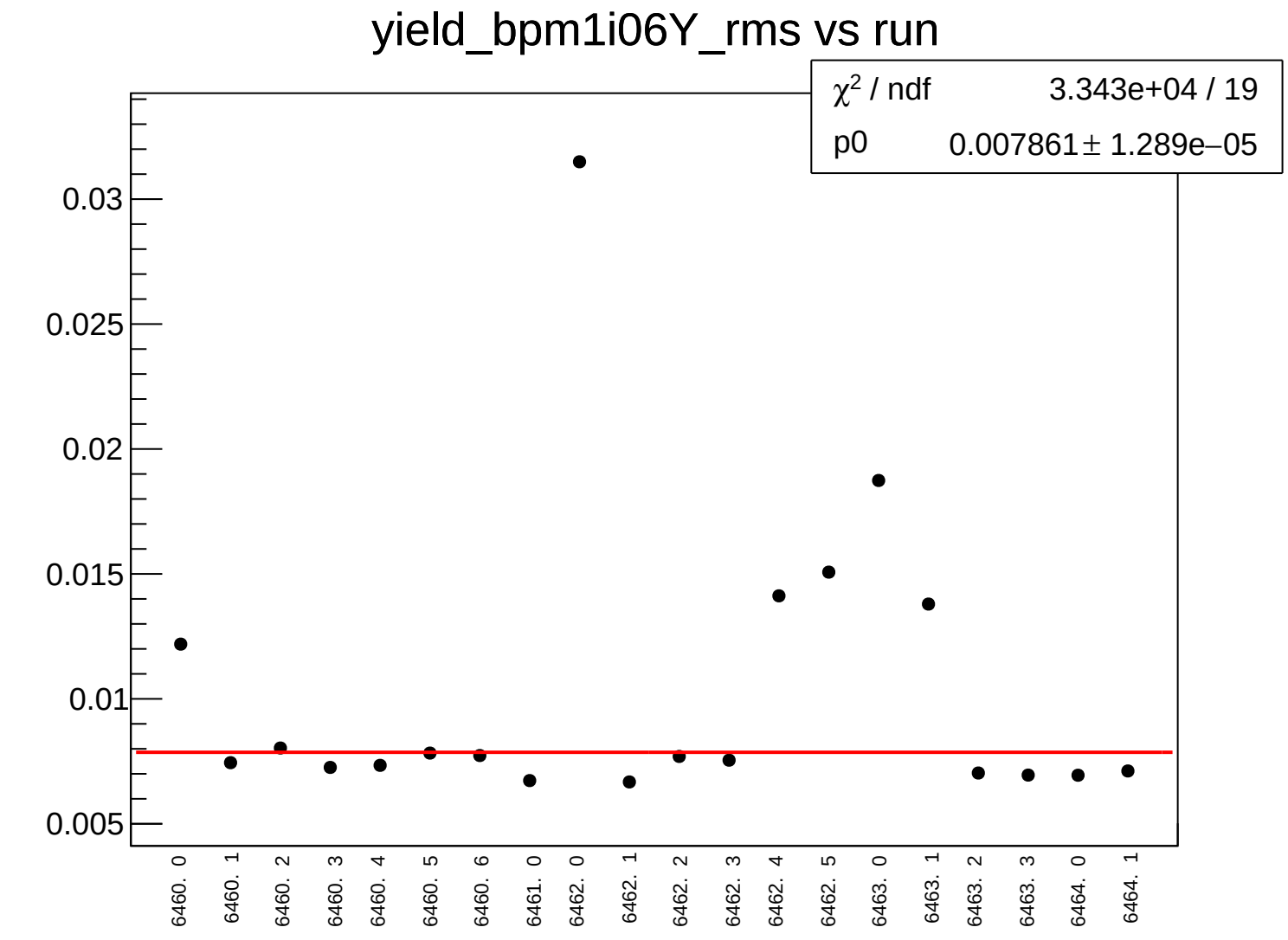

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

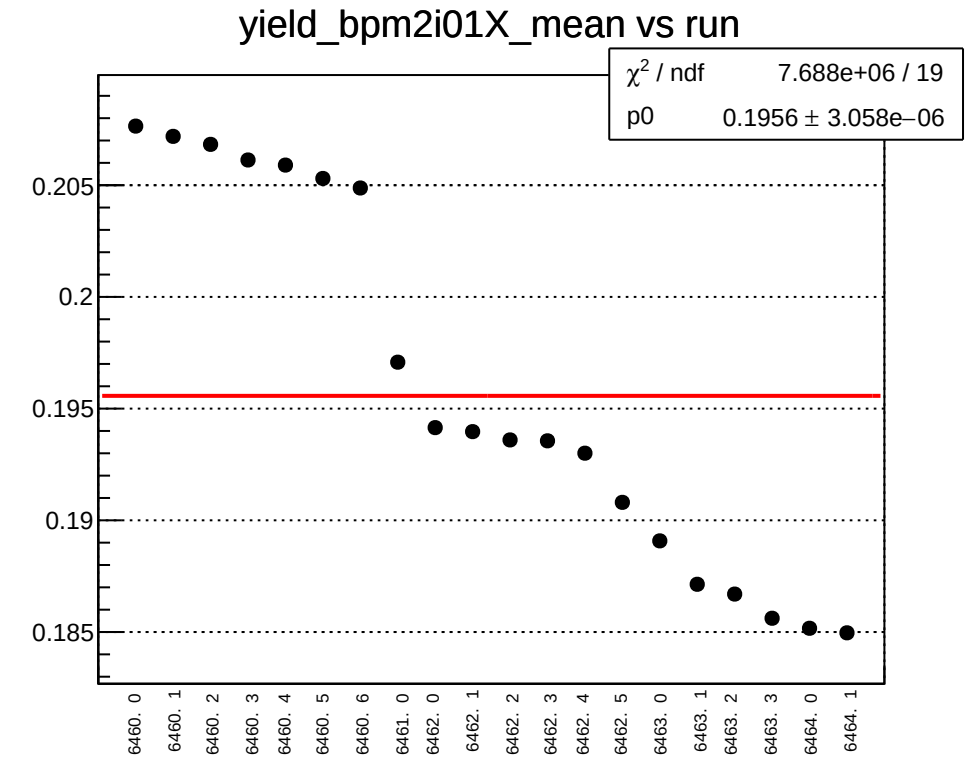

yield_bpm1i06X_rms vs run
χ² / ndf 1340 / 19
p0 0.01773 ± 2.79e–05
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175
0.017
0.0165
0.016
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

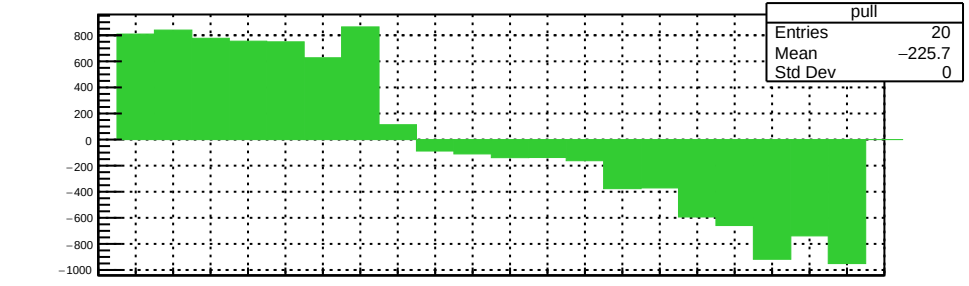

yield_bpm1i06Y_mean vs run
χ² / ndf 1.561e+06 / 19
p0 −0.6245 ± 1.823e−05
−0.59
−0.6
−0.61
−0.62
−0.63
−0.64
−0.65
−0.66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

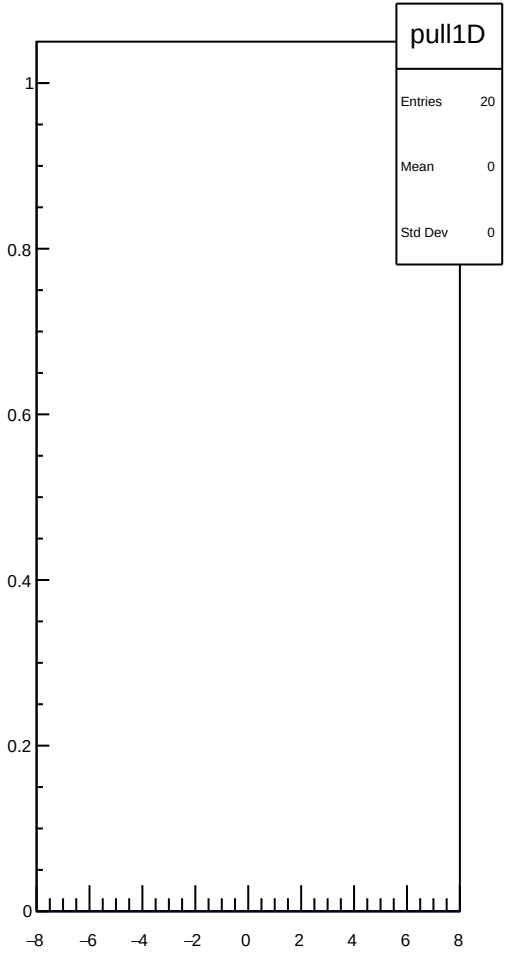

pull
Entries 20
Mean 648.5
Std Dev 0
400
200
0
−200
−400

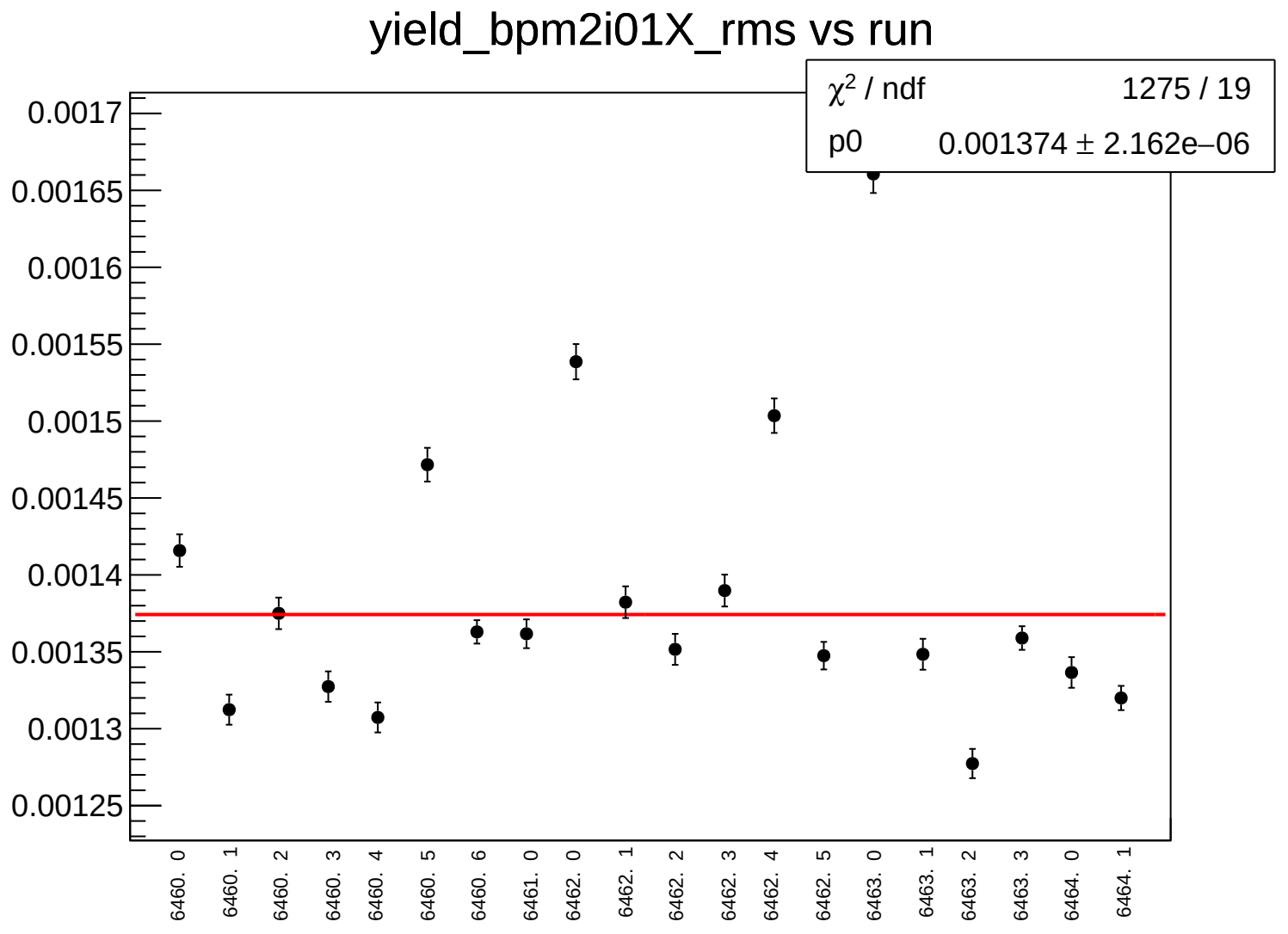

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

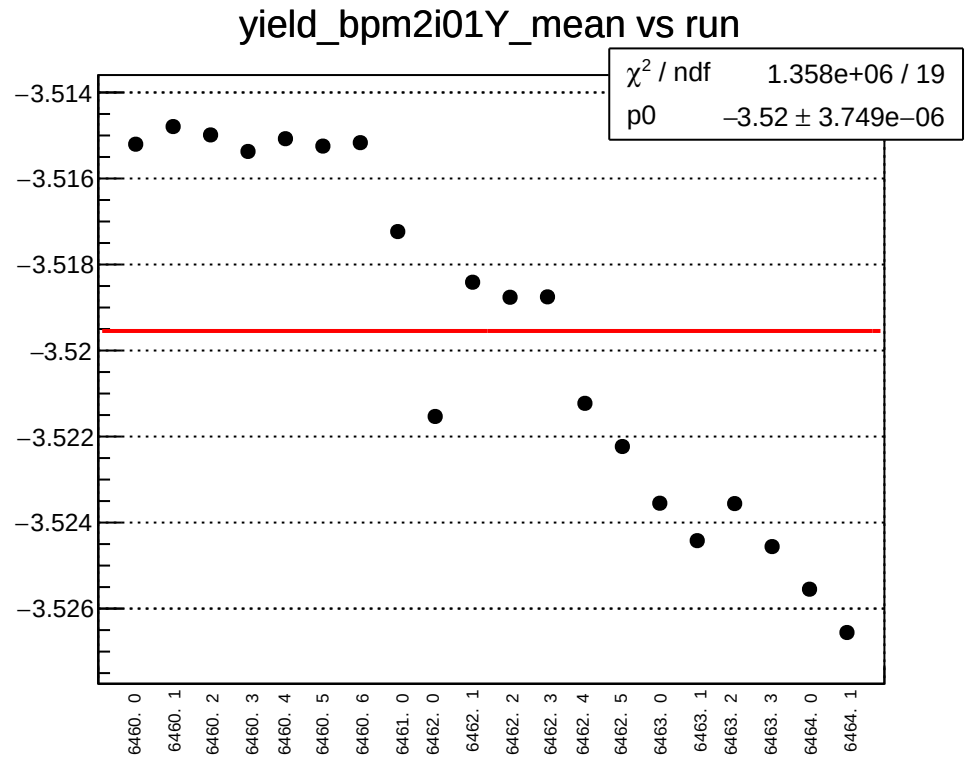

yield_bpm1i06Y_rms vs run
χ² / ndf 3.343e+04 / 19
p0 0.007861 ± 1.289e−05
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

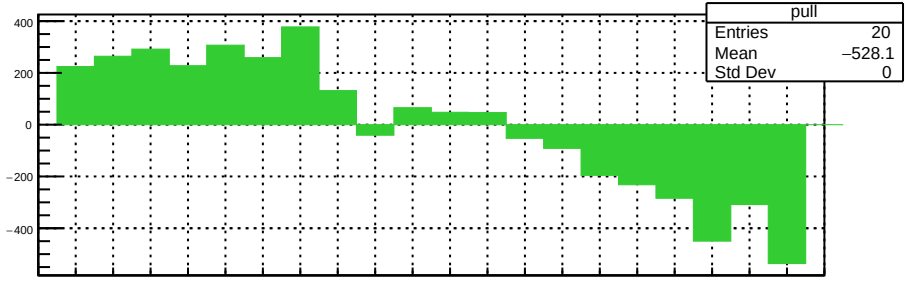

yield_bpm2i01X_mean vs run
χ² / ndf 7.688e+06 / 19
p0 0.1956 ± 3.058e−06
0.205
0.2
0.195
0.19
0.185
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

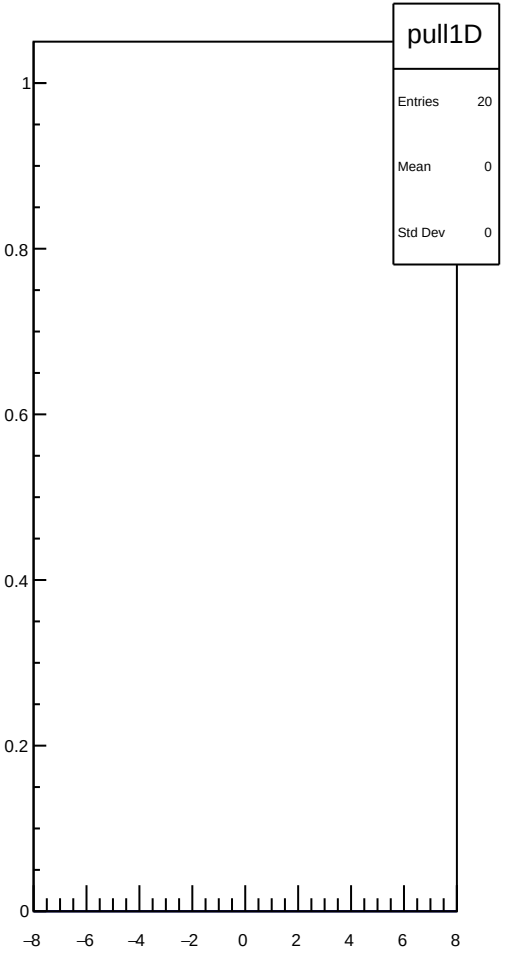

pull
Entries 20
Mean −225.7
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

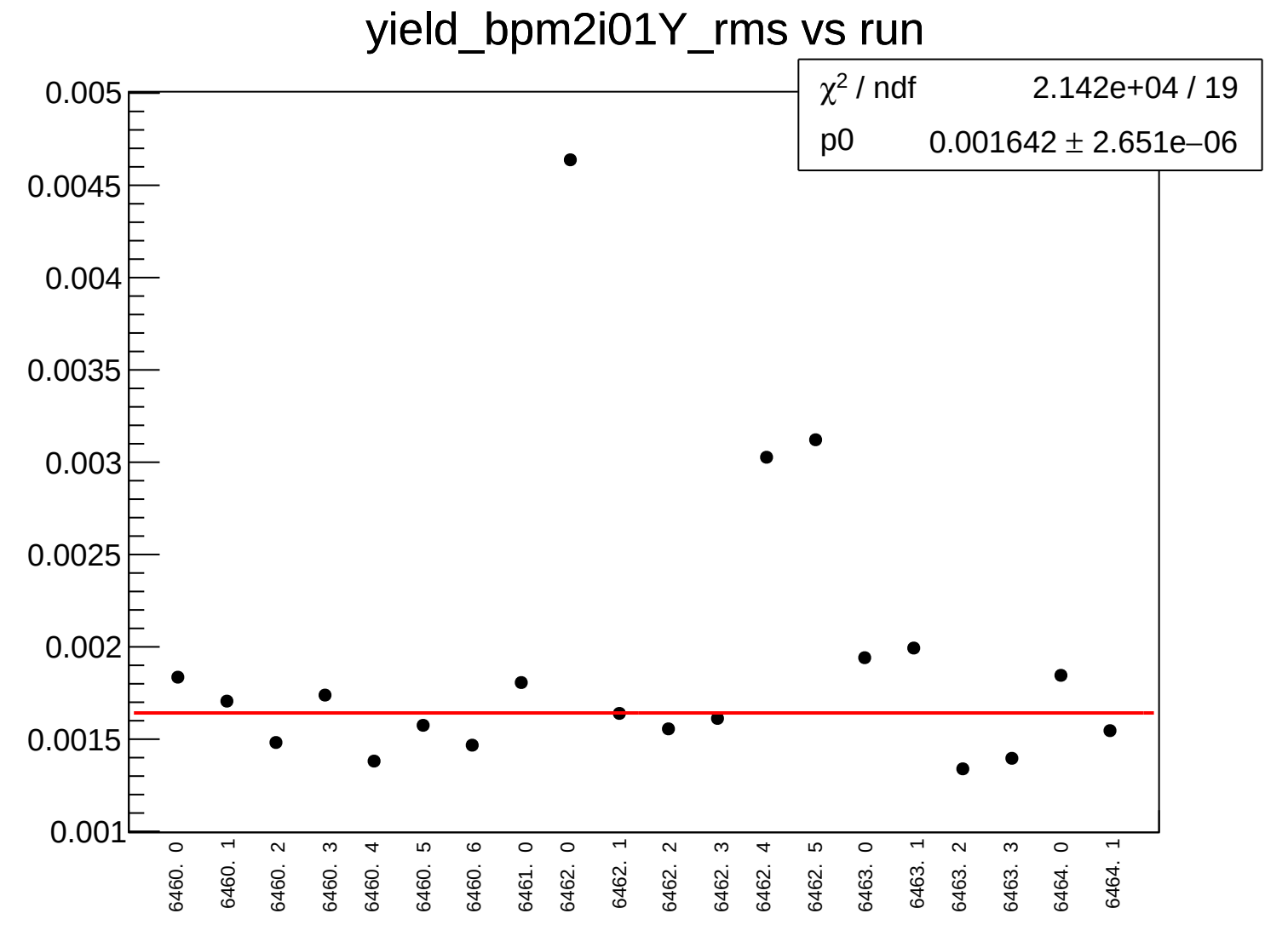

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

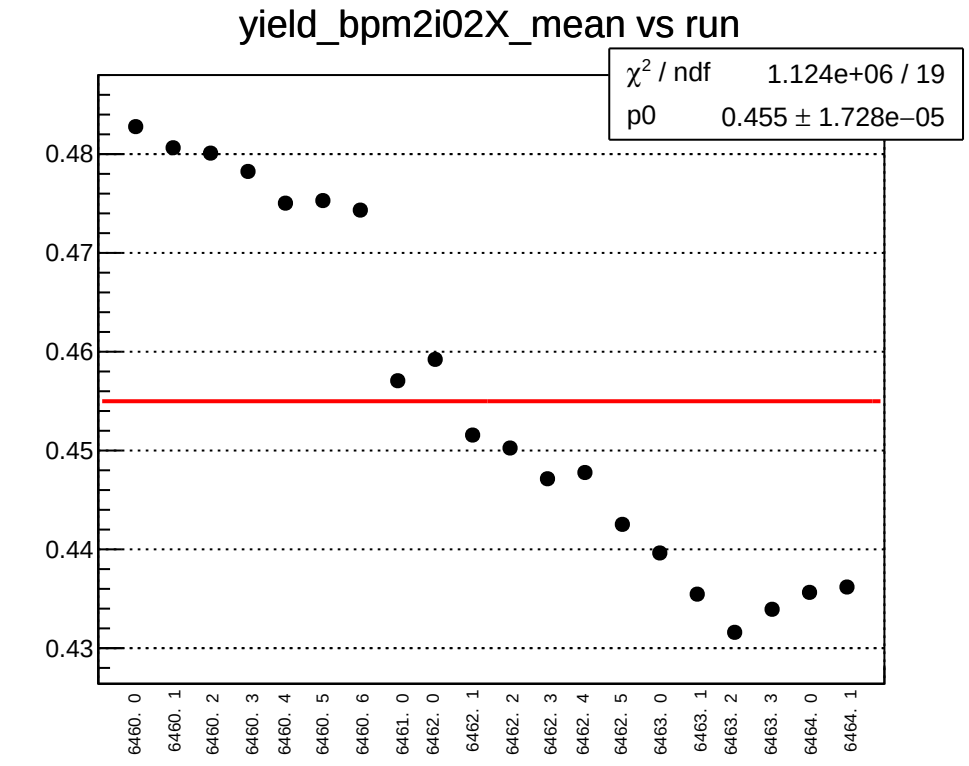

yield_bpm2i01X_rms vs run
χ² / ndf 1275 / 19
p0 0.001374 ± 2.162e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

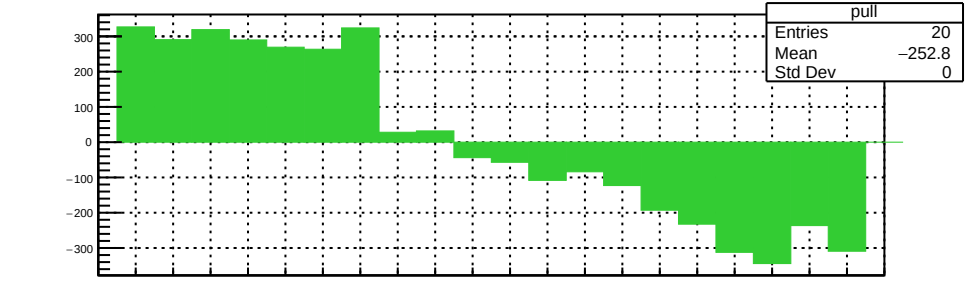

yield_bpm2i01Y_mean vs run
χ² / ndf 1.358e+06 / 19
p0 −3.52 ± 3.749e−06
−3.514
−3.516
−3.518
−3.52
−3.522
−3.524
−3.526
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

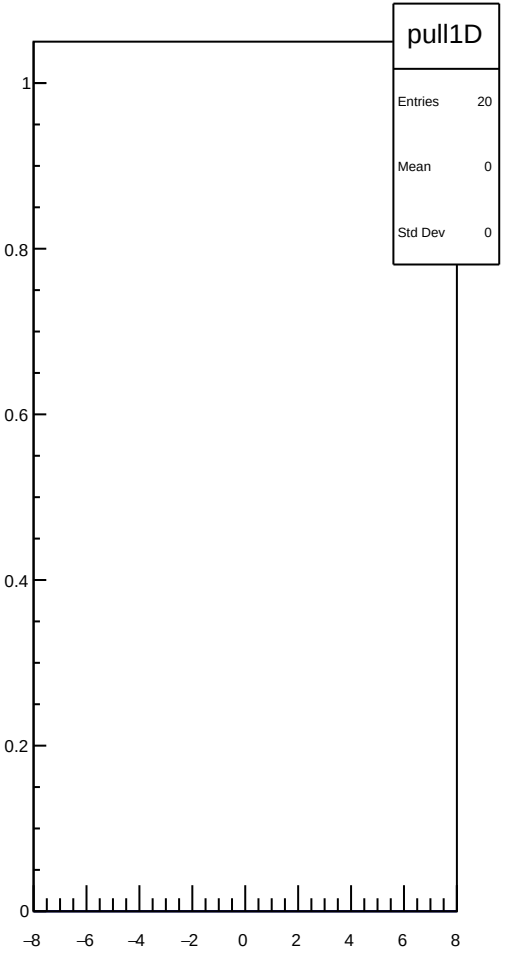

pull
Entries 20
Mean −528.1
Std Dev 0
400
200
0
−200
−400

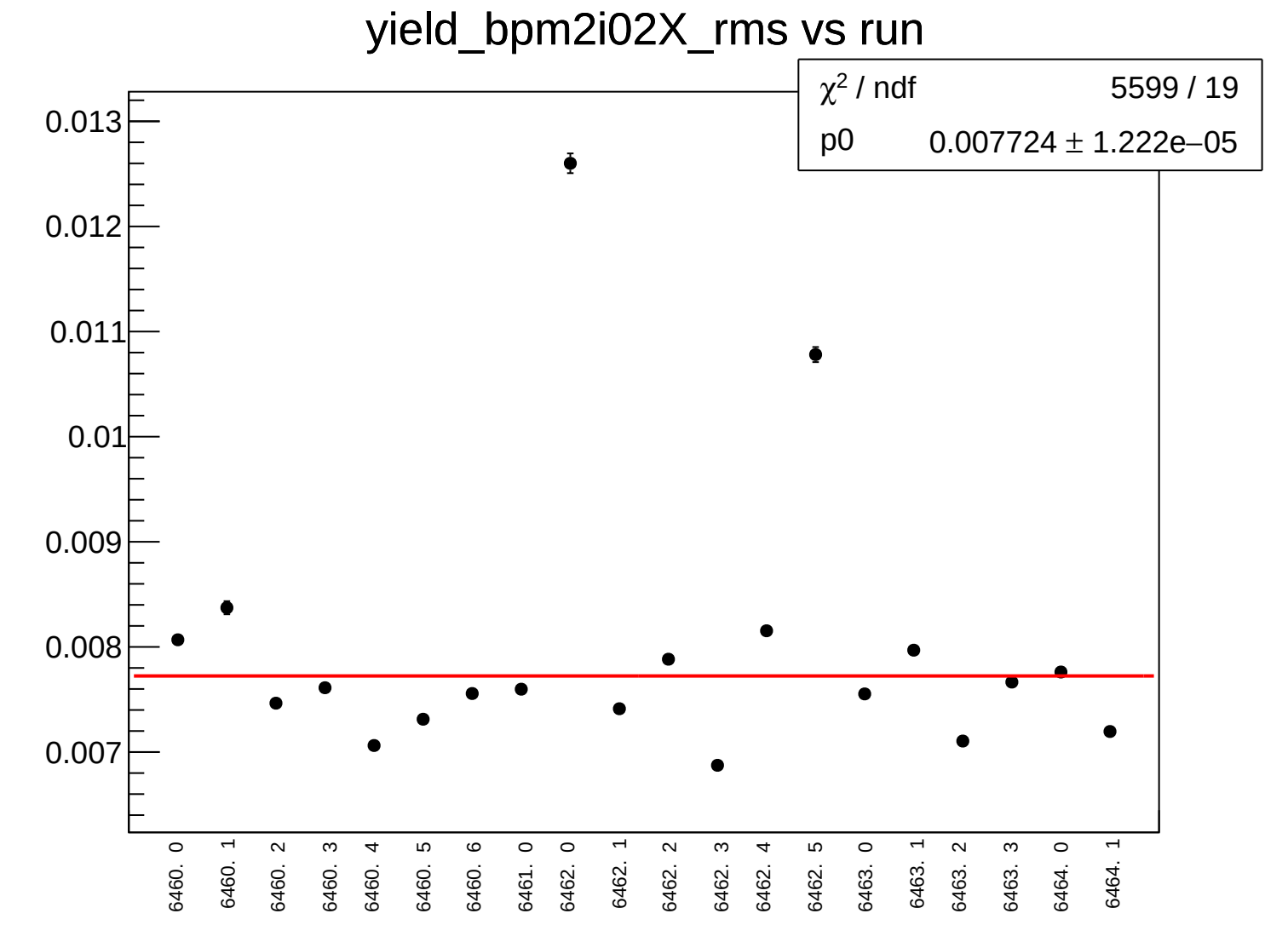

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

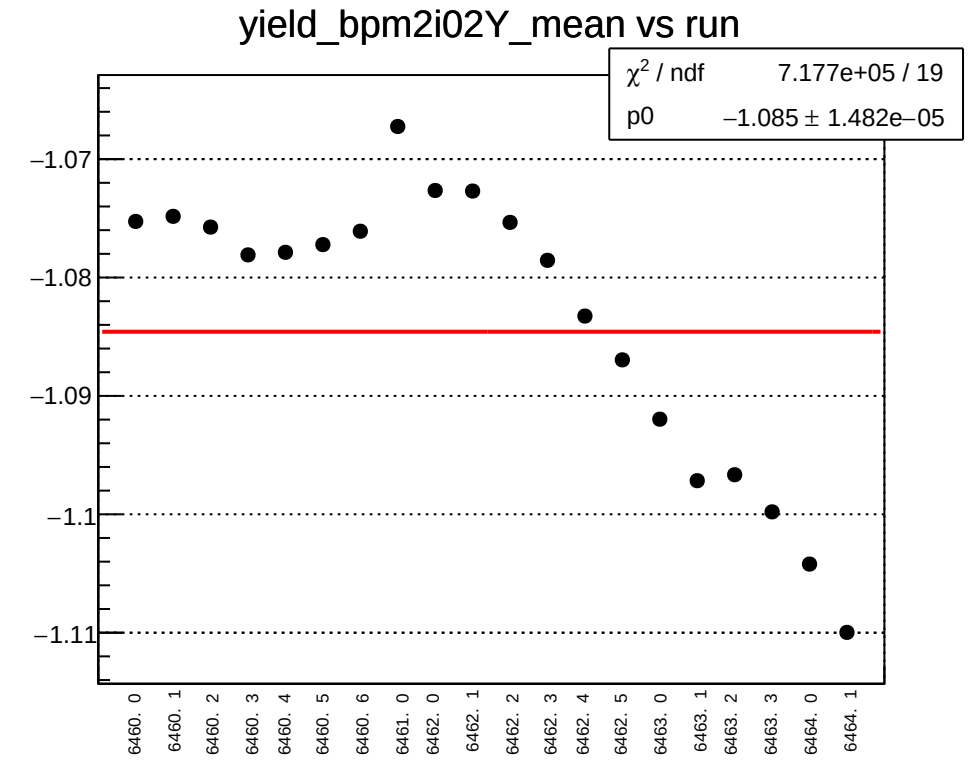

yield_bpm2i01Y_rms vs run
χ² / ndf 2.142e+04 / 19
p0 0.001642 ± 2.651e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

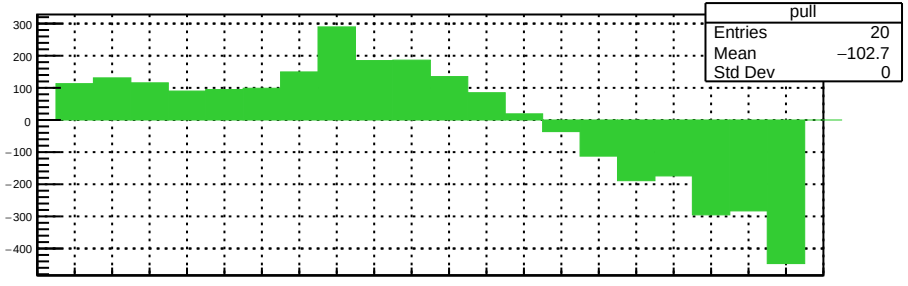

yield_bpm2i02X_mean vs run
χ² / ndf 1.124e+06 / 19
p0 0.455 ± 1.728e−05
0.48
0.47
0.46
0.45
0.44
0.43
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

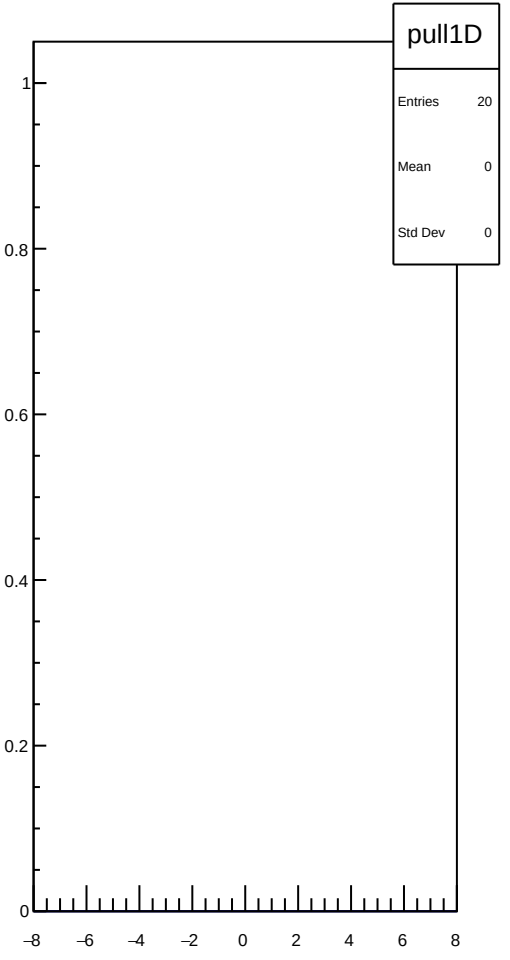

pull
Entries 20
Mean −252.8
Std Dev 0
300
200
100
0
−100
−200
−300

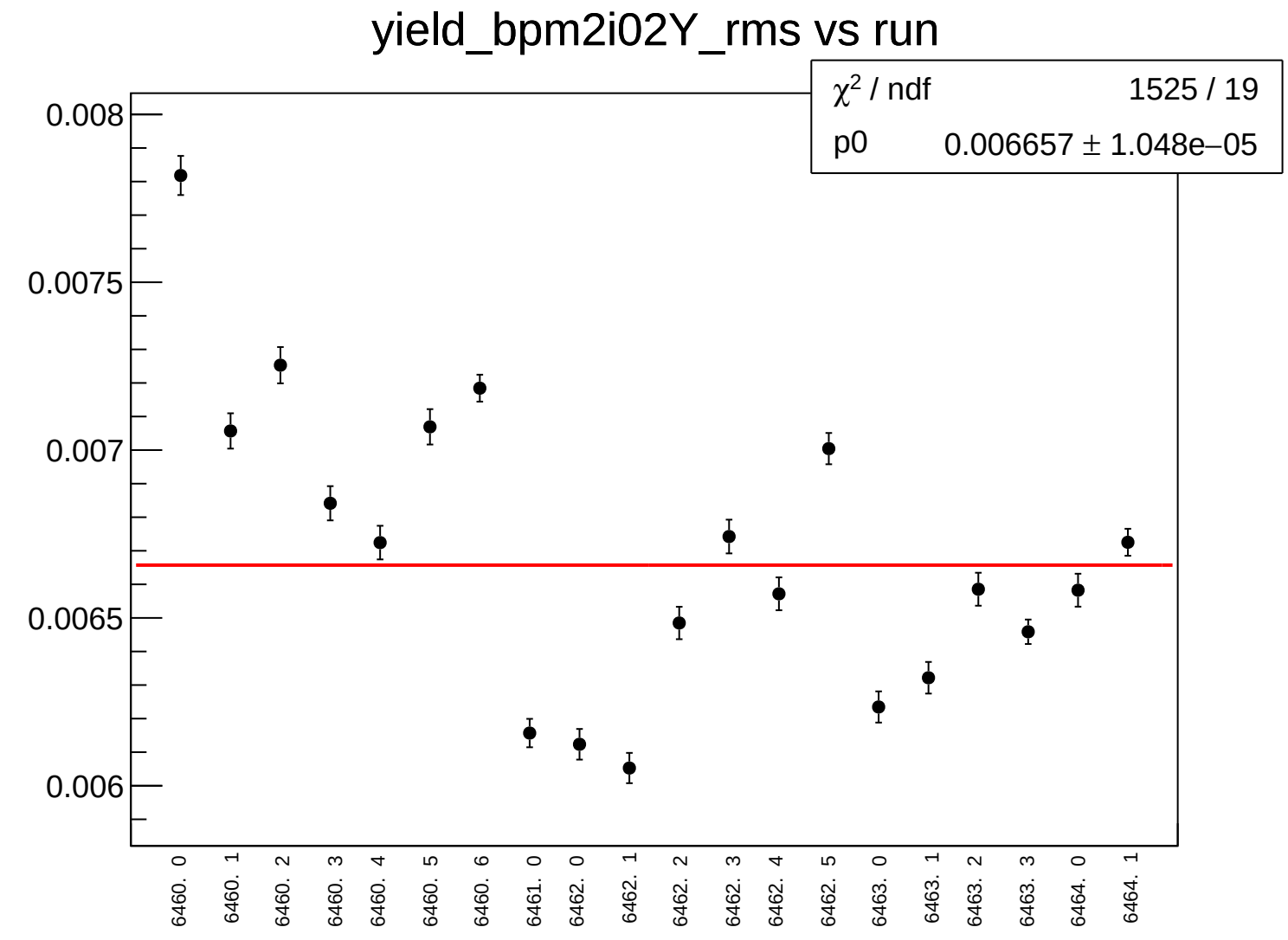

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

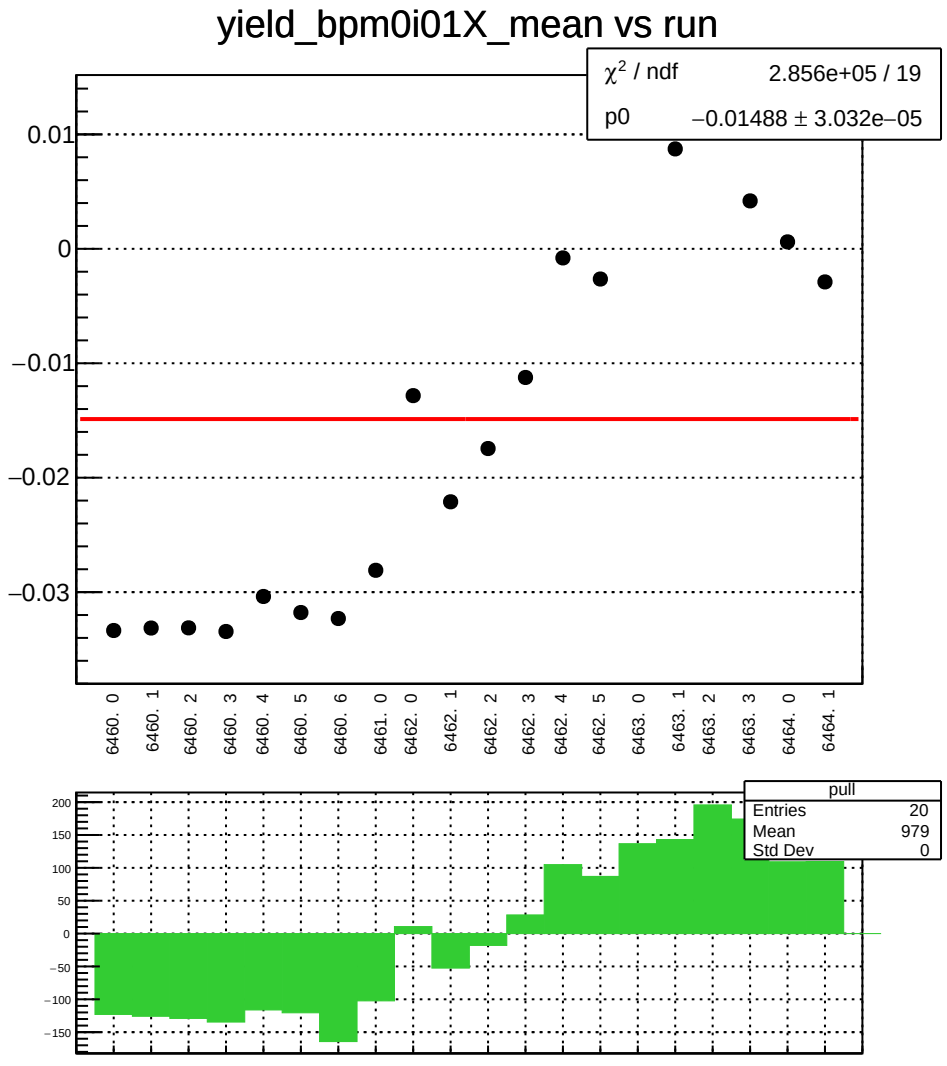

yield_bpm2i02X_rms vs run
χ² / ndf 5599 / 19
p0 0.007724 ± 1.222e−05
0.013
0.012
0.011
0.01
0.009
0.008
0.007
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

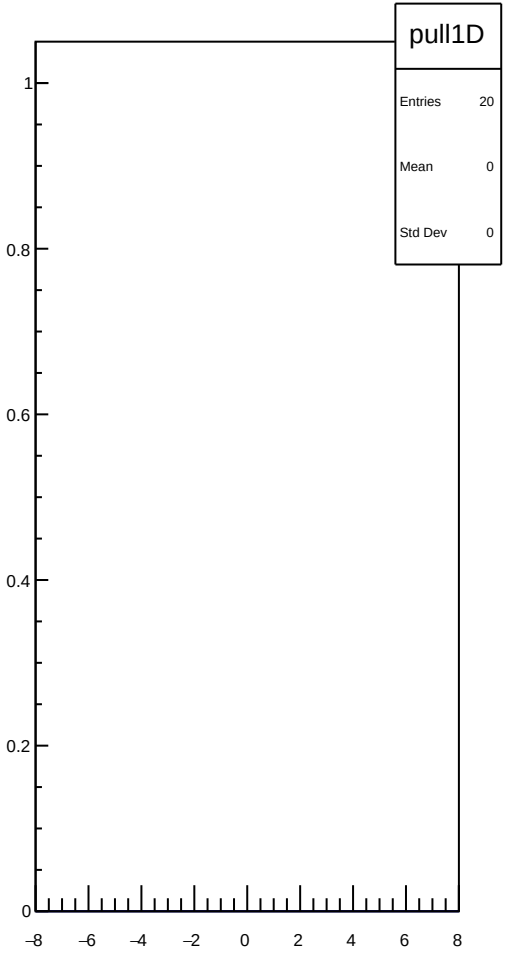

yield_bpm2i02Y_mean vs run
χ² / ndf 7.177e+05 / 19
p0 −1.085 ± 1.482e−05
−1.07
−1.08
−1.09
−1.1
−1.11
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

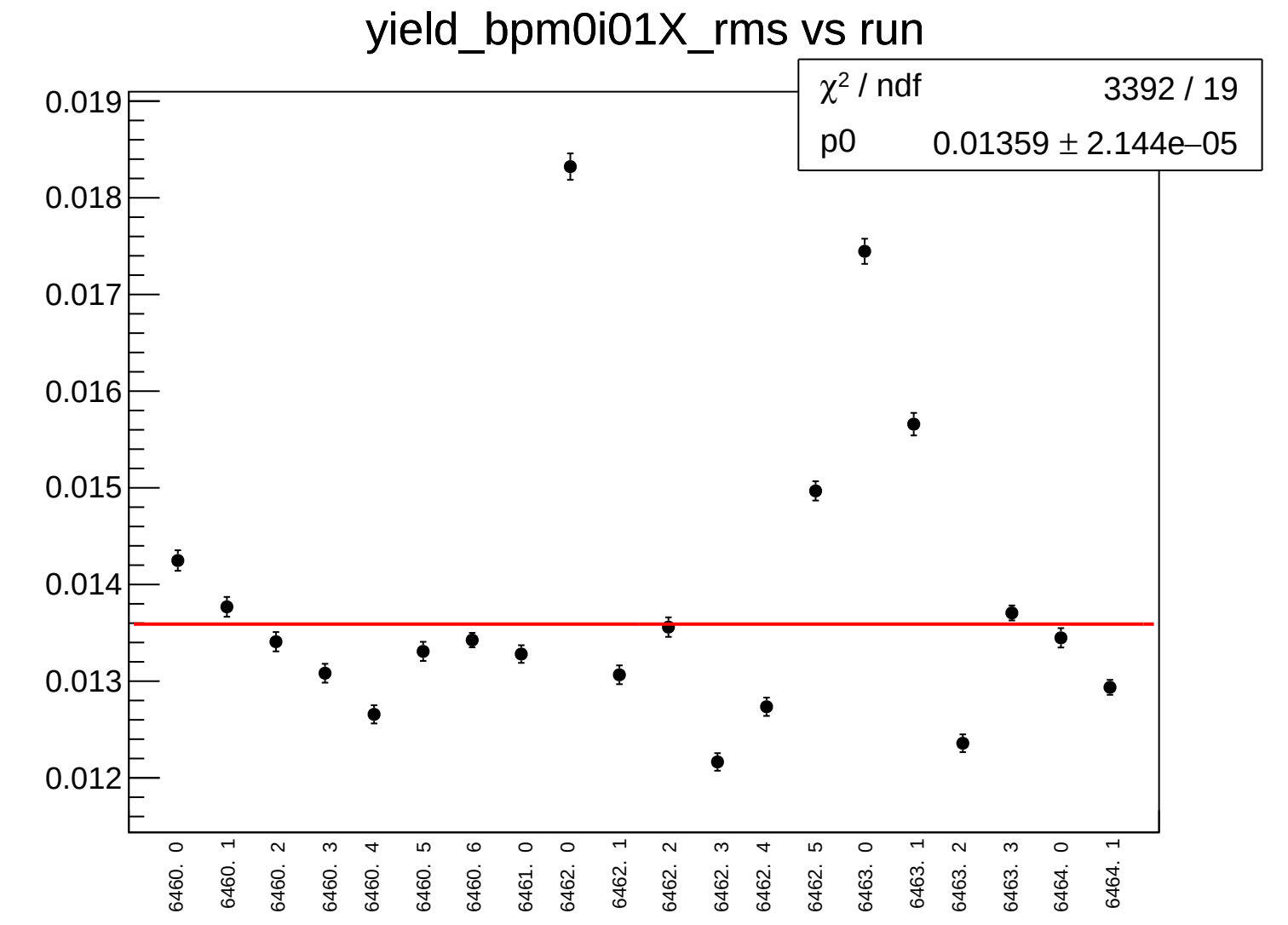

pull
Entries 20
Mean −102.7
Std Dev 0
300
200
100
0
−100
−200
−300
−400

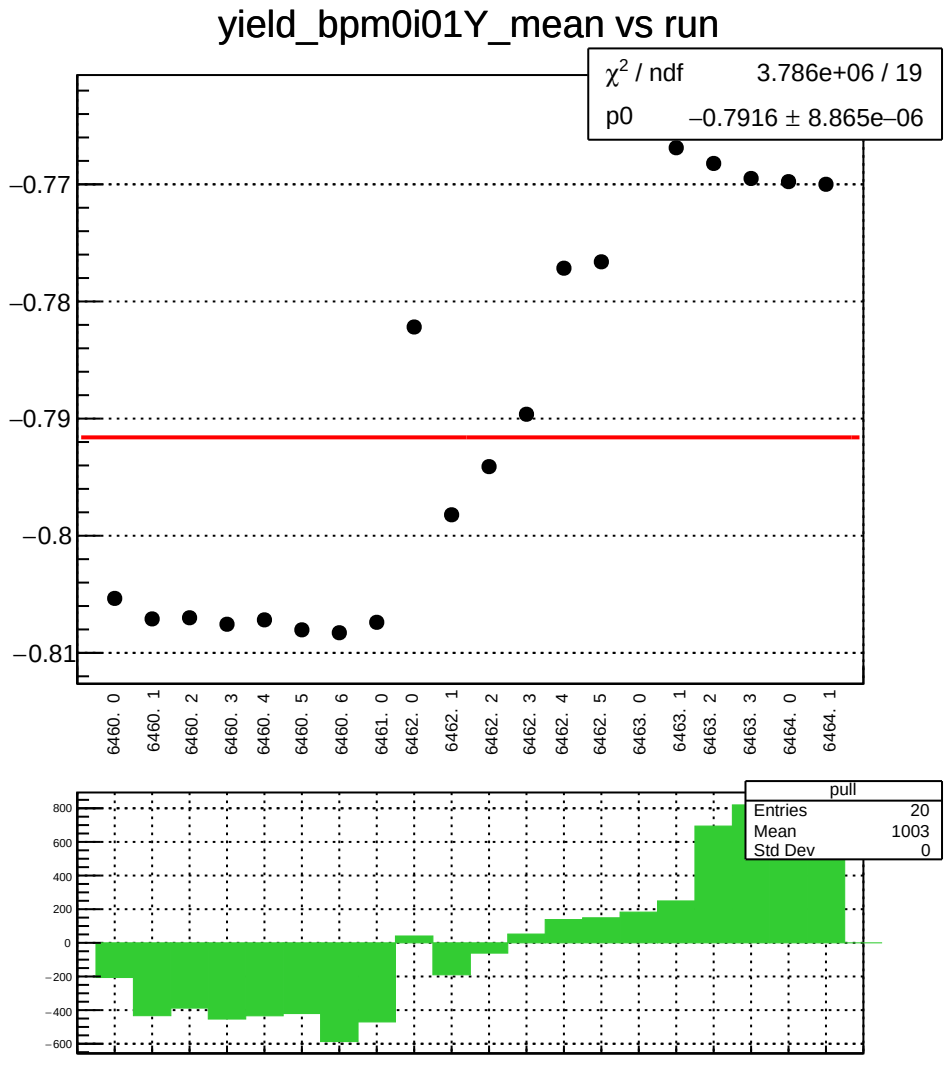

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

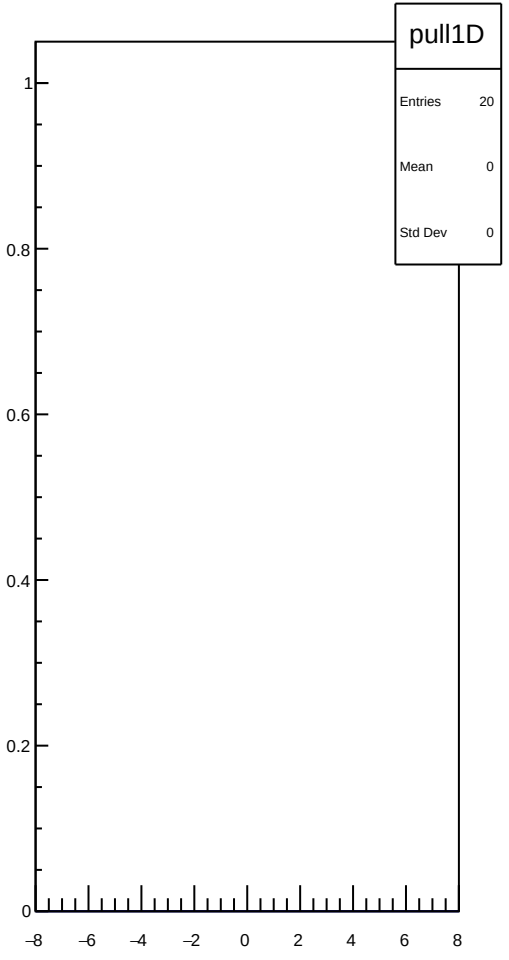

yield_bpm2i02Y_rms vs run
χ² / ndf 1525 / 19
p0 0.006657 ± 1.048e−05
0.008
0.0075
0.007
0.0065
0.006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

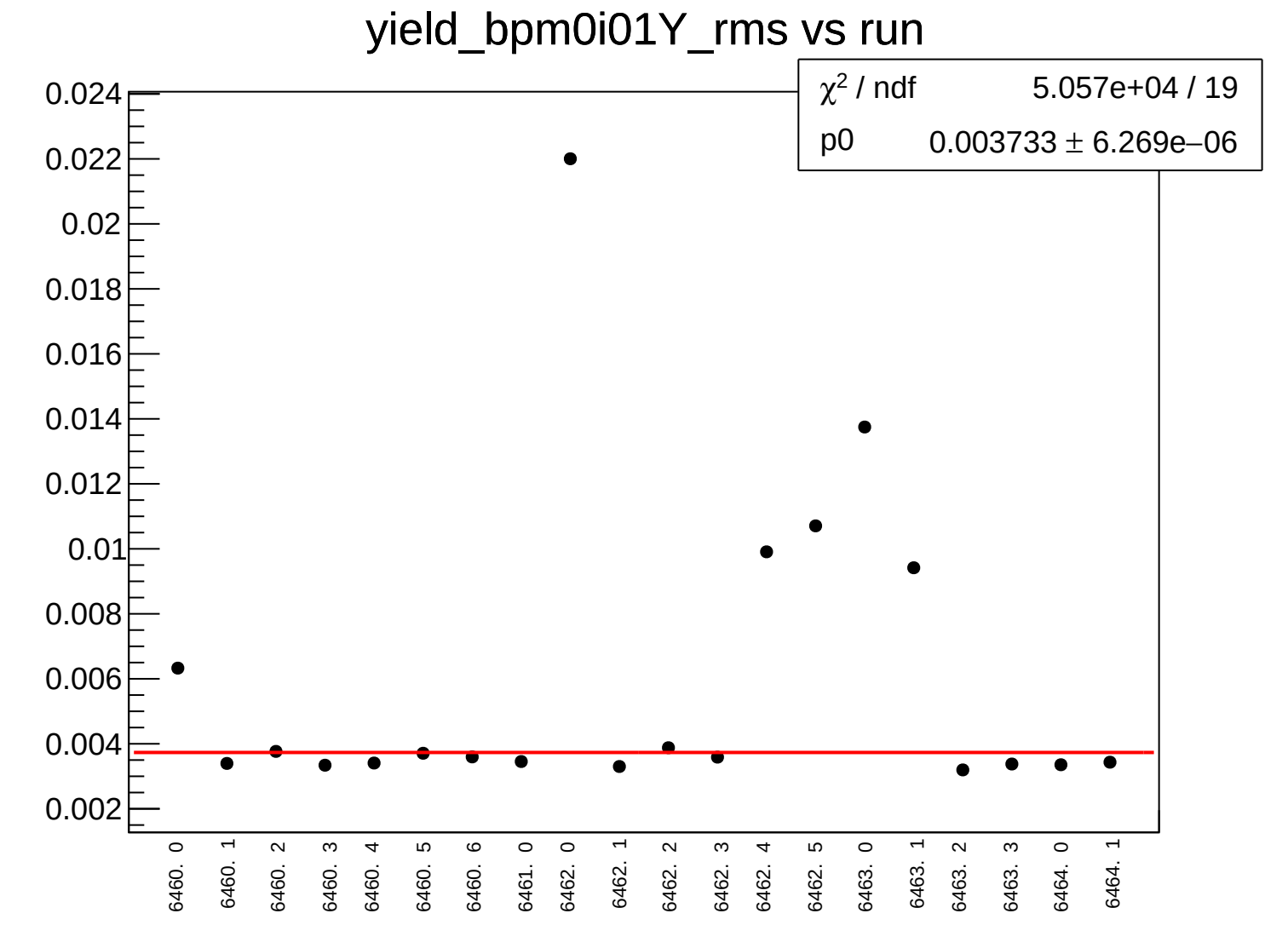

yield_bpm0i01X_mean vs run
χ² / ndf 2.856e+05 / 19
p0 −0.01488 ± 3.032e−05
0.01
0
−0.01
−0.02
−0.03
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 979
Std Dev 0
200
150
100
50
0
−50
−100
−150

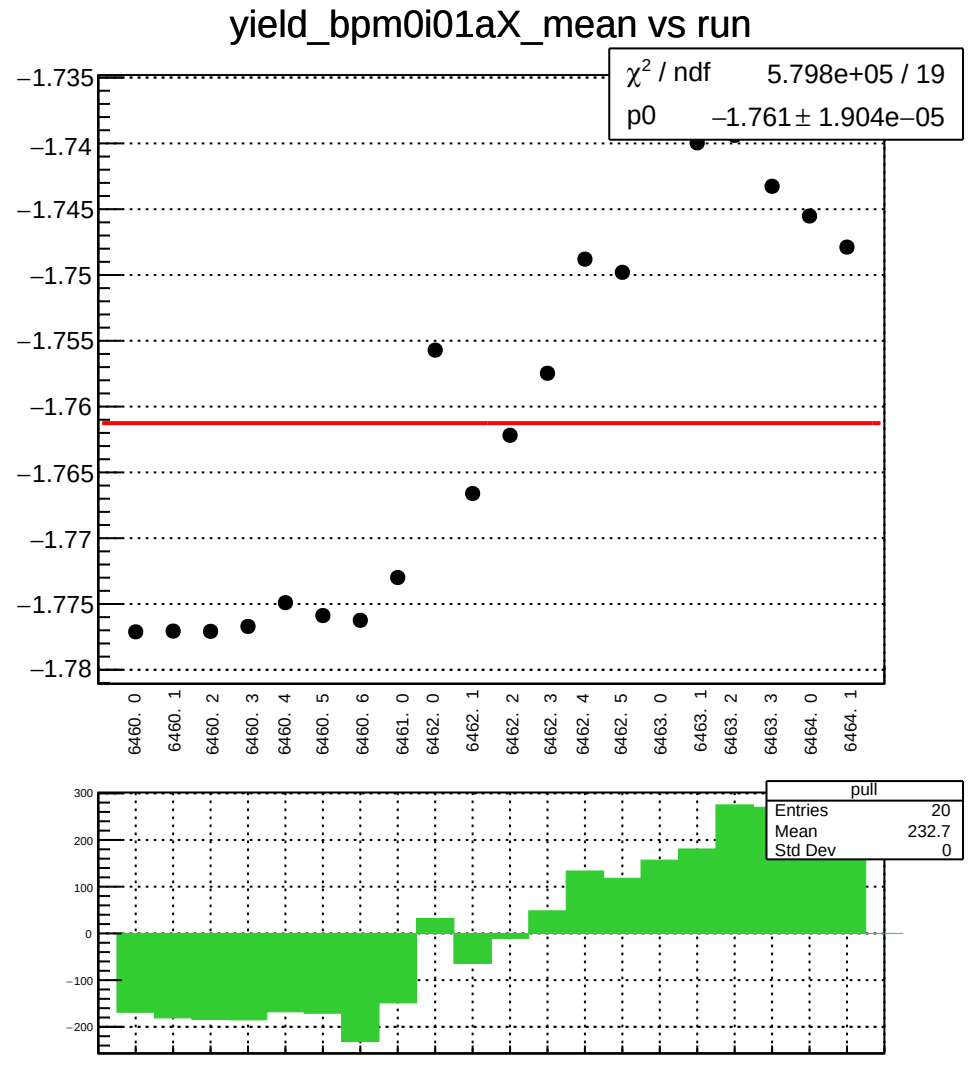

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

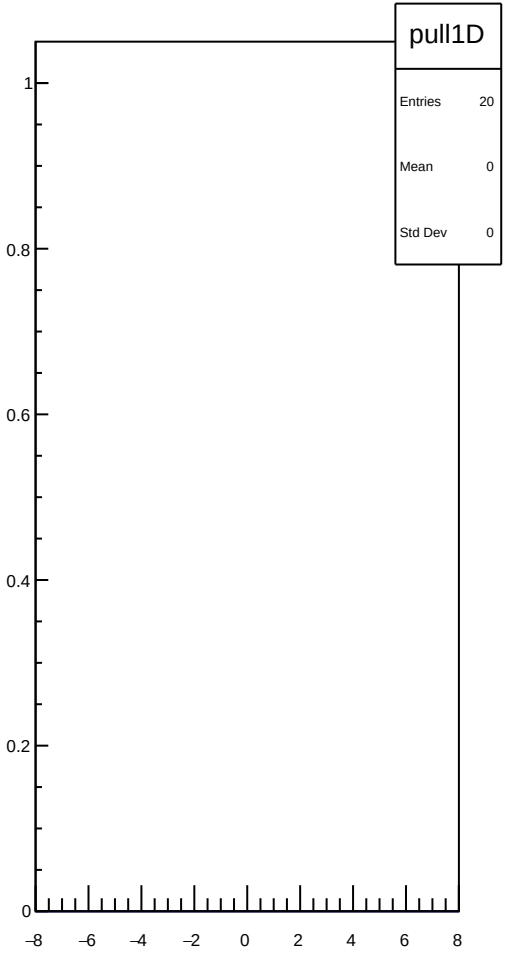

yield_bpm0i01X_rms vs run
χ² / ndf 3392 / 19
p0 0.01359 ± 2.144e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

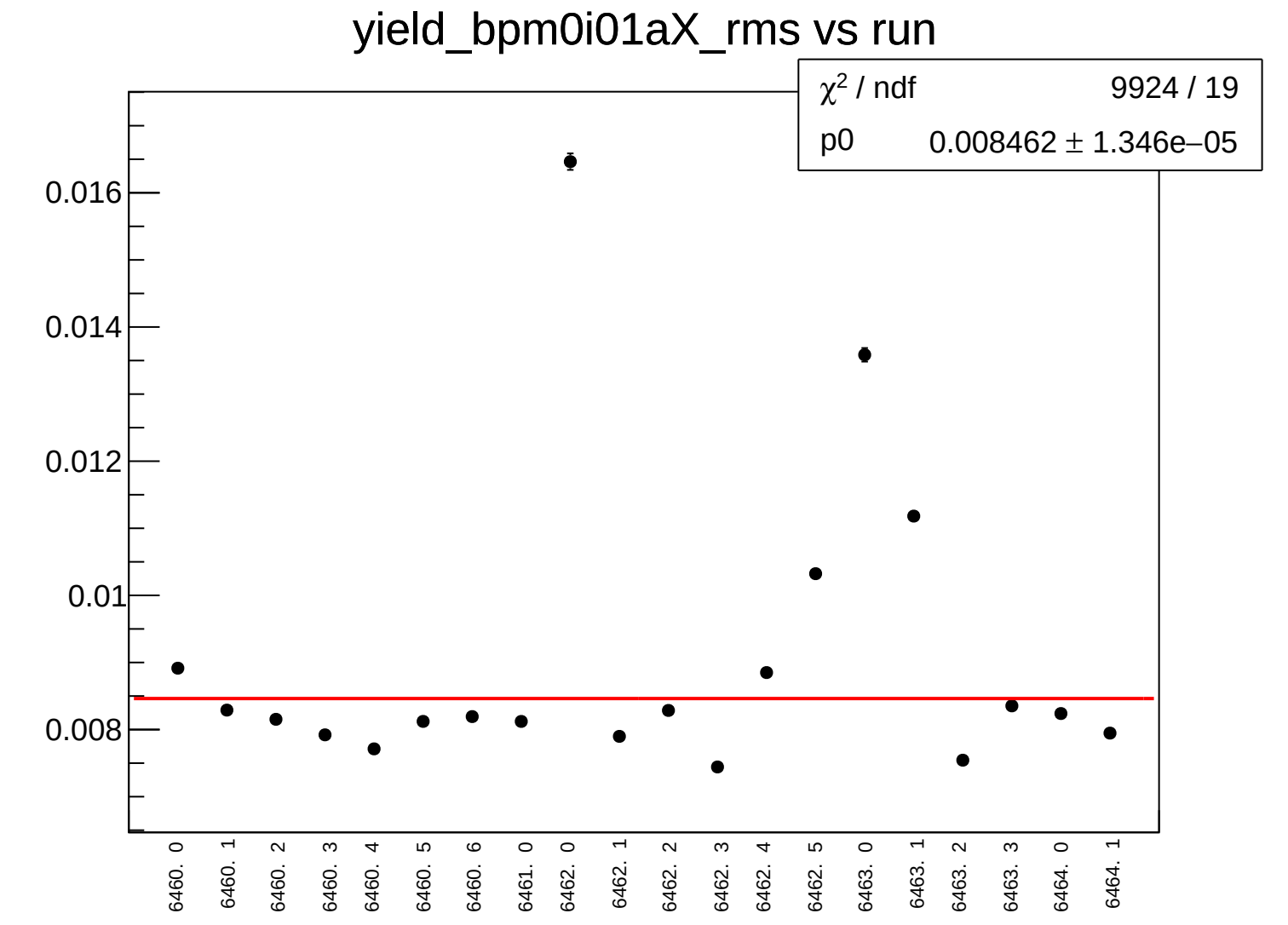

yield_bpm0i01Y_mean vs run
χ² / ndf 3.786e+06 / 19
p0 −0.7916 ± 8.865e−06
−0.77
−0.78
−0.79
−0.8
−0.81
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1003
Std Dev 0
800
600
400
200
0
−200
−400
−600

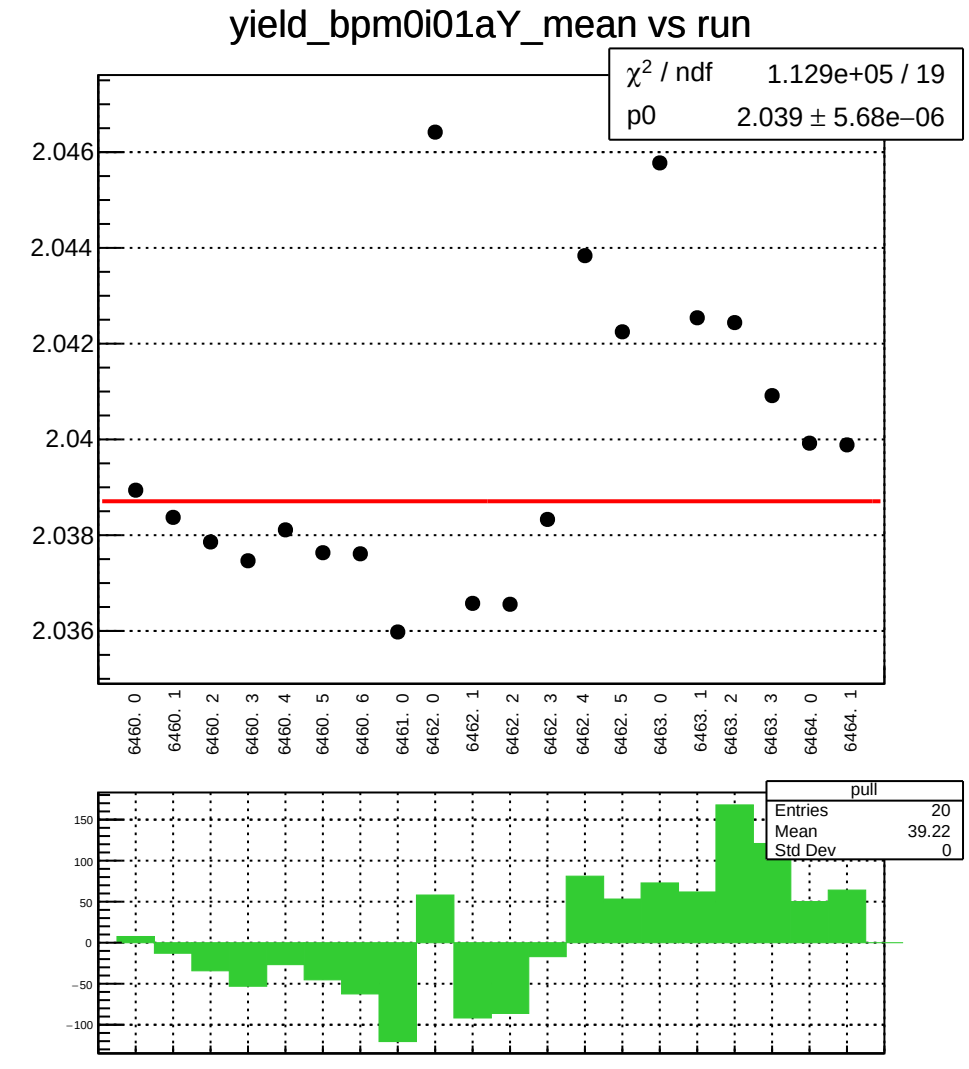

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

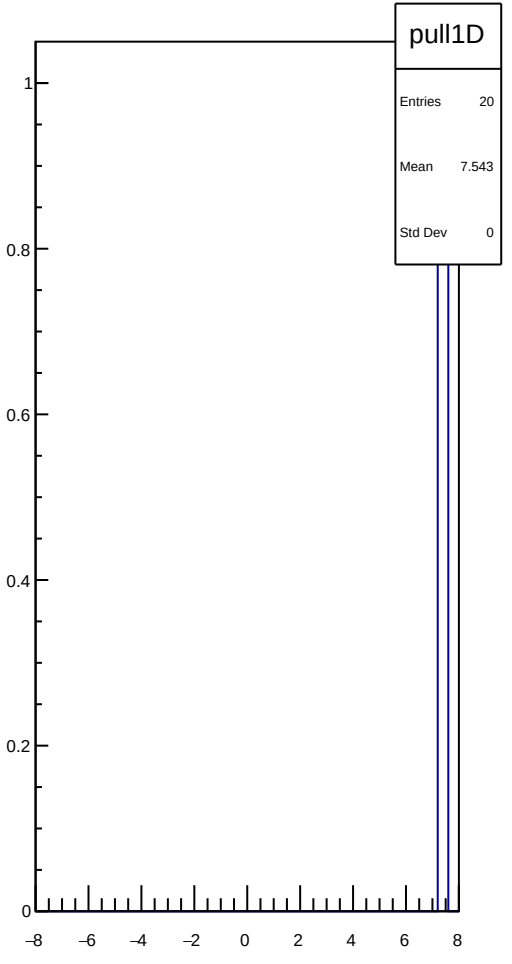

yield_bpm0i01Y_rms vs run
χ² / ndf 5.057e+04 / 19
p0 0.003733 ± 6.269e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

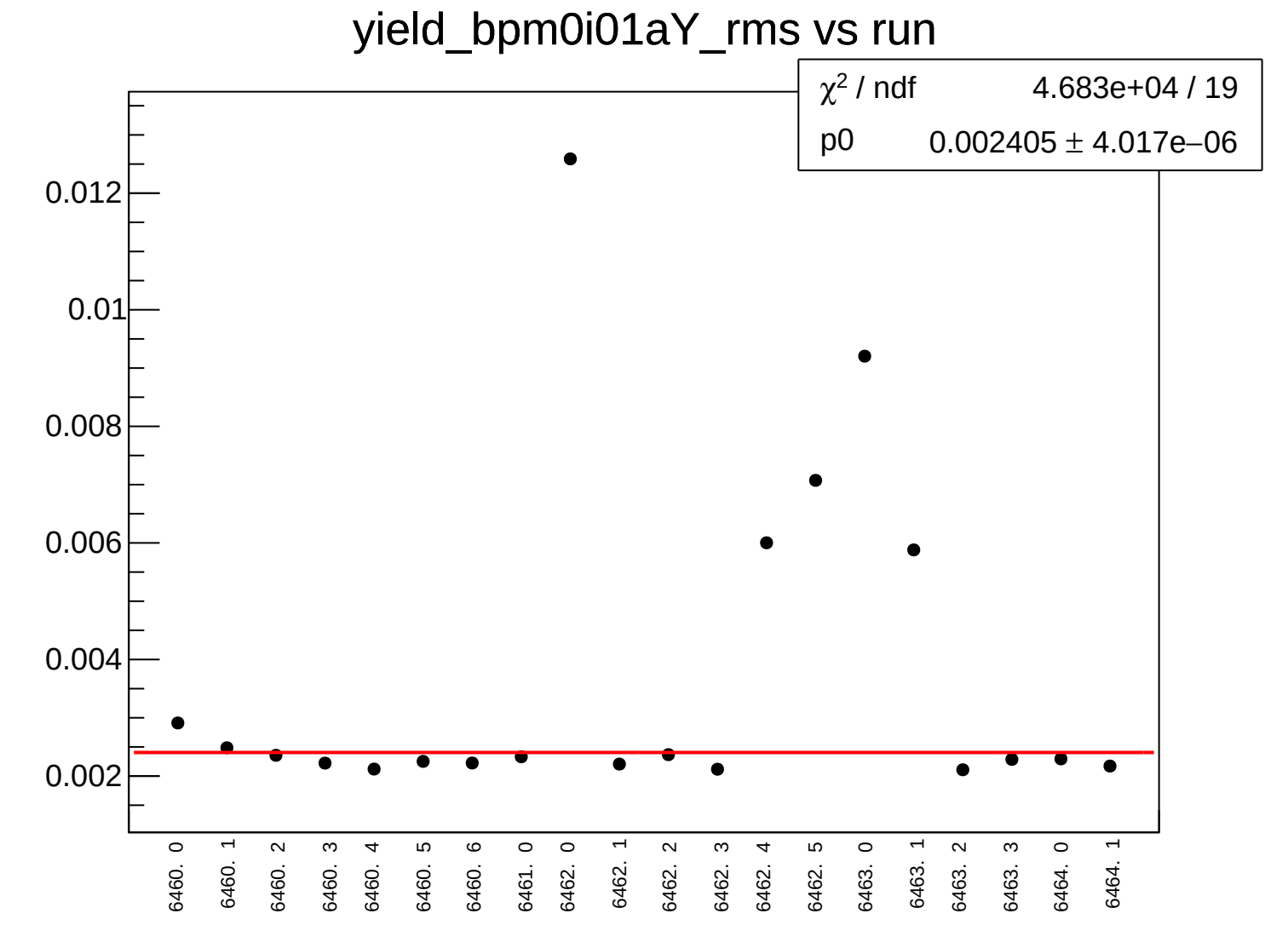

yield_bpm0i01aX_mean vs run
χ² / ndf 5.798e+05 / 19
p0 −1.761 ± 1.904e−05
−1.735
−1.74
−1.745
−1.75
−1.755
−1.76
−1.765
−1.77
−1.775
−1.78
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 232.7
Std Dev 0
300
200
100
0
−100
−200

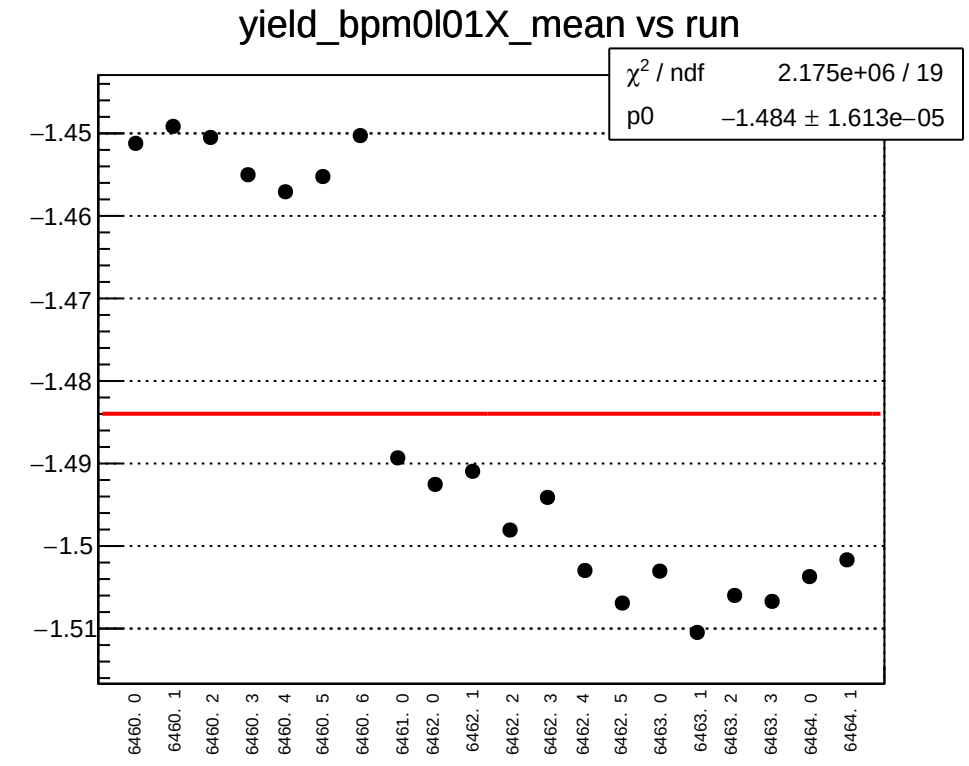

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

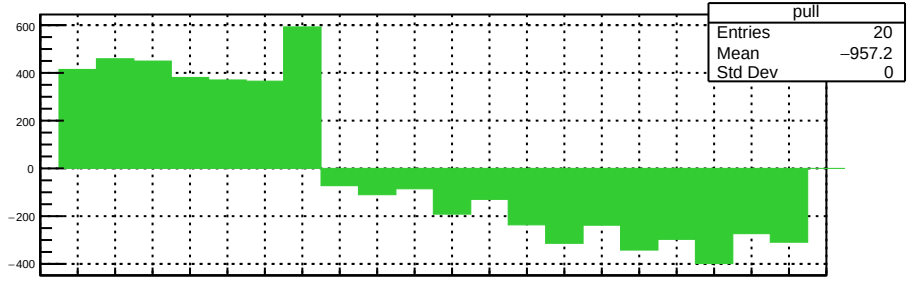

yield_bpm0i01aX_rms vs run
χ² / ndf 9924 / 19
p0 0.008462 ± 1.346e−05
0.016
0.014
0.012
0.01
0.008
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

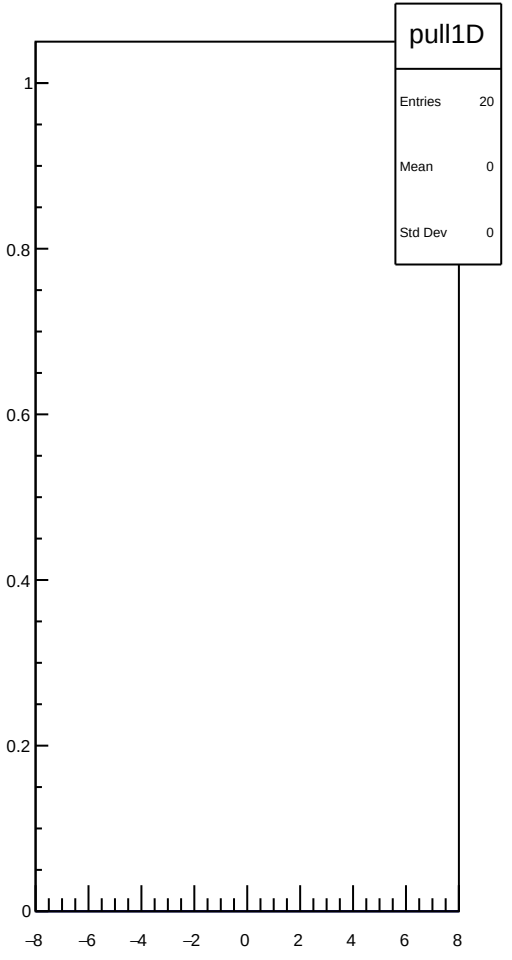

yield_bpm0i01aY_mean vs run
χ² / ndf 1.129e+05 / 19
p0 2.039 ± 5.68e−06
2.046
2.044
2.042
2.04
2.038
2.036
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.22
Std Dev 0
150
100
50
0
−50
−100

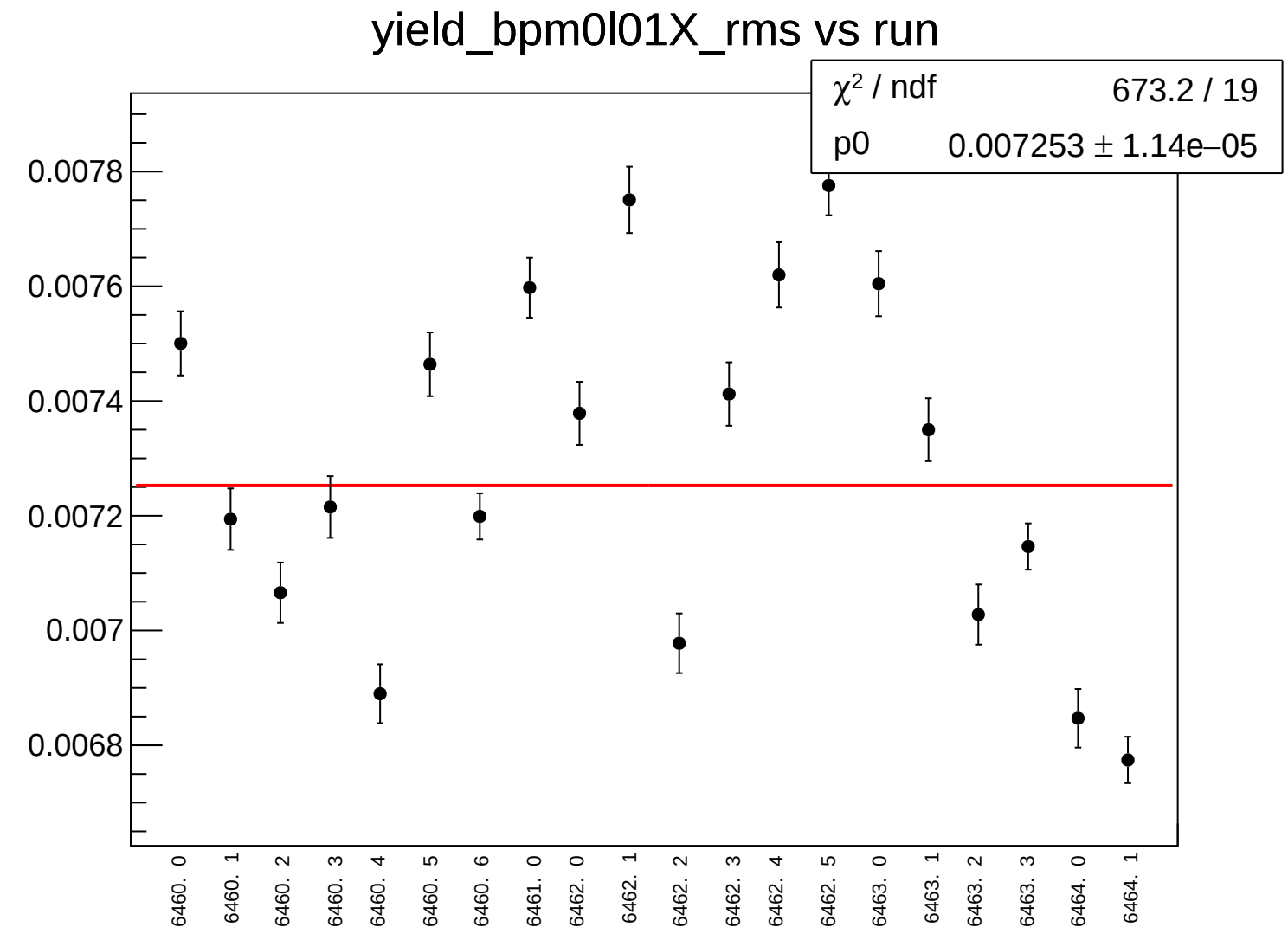

pull1D
Entries 20
Mean 7.543
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

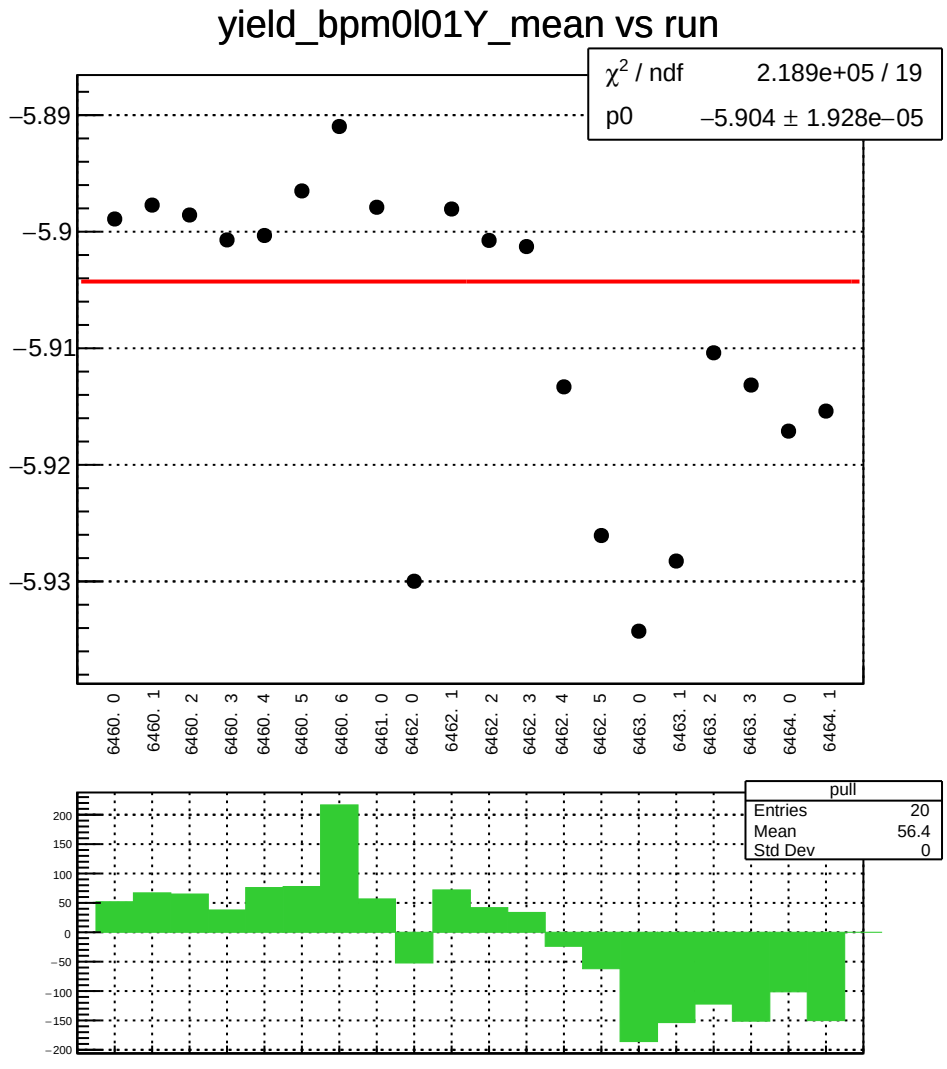

yield_bpm0i01aY_rms vs run
χ² / ndf 4.683e+04 / 19
p0 0.002405 ± 4.017e−06
0.012
0.01
0.008
0.006
0.004
0.002
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

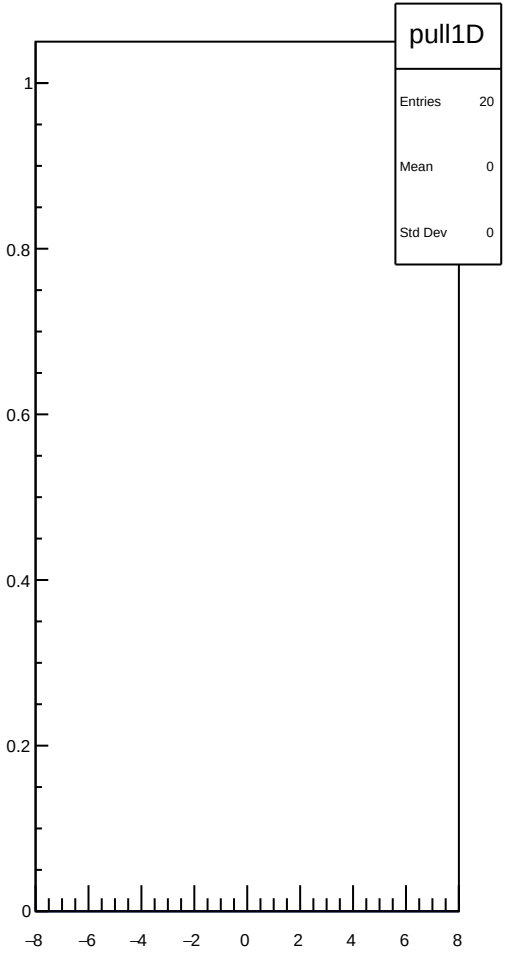

yield_bpm0l01X_mean vs run
χ² / ndf 2.175e+06 / 19
p0 −1.484 ± 1.613e−05
−1.45
−1.46
−1.47
−1.48
−1.49
−1.5
−1.51
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

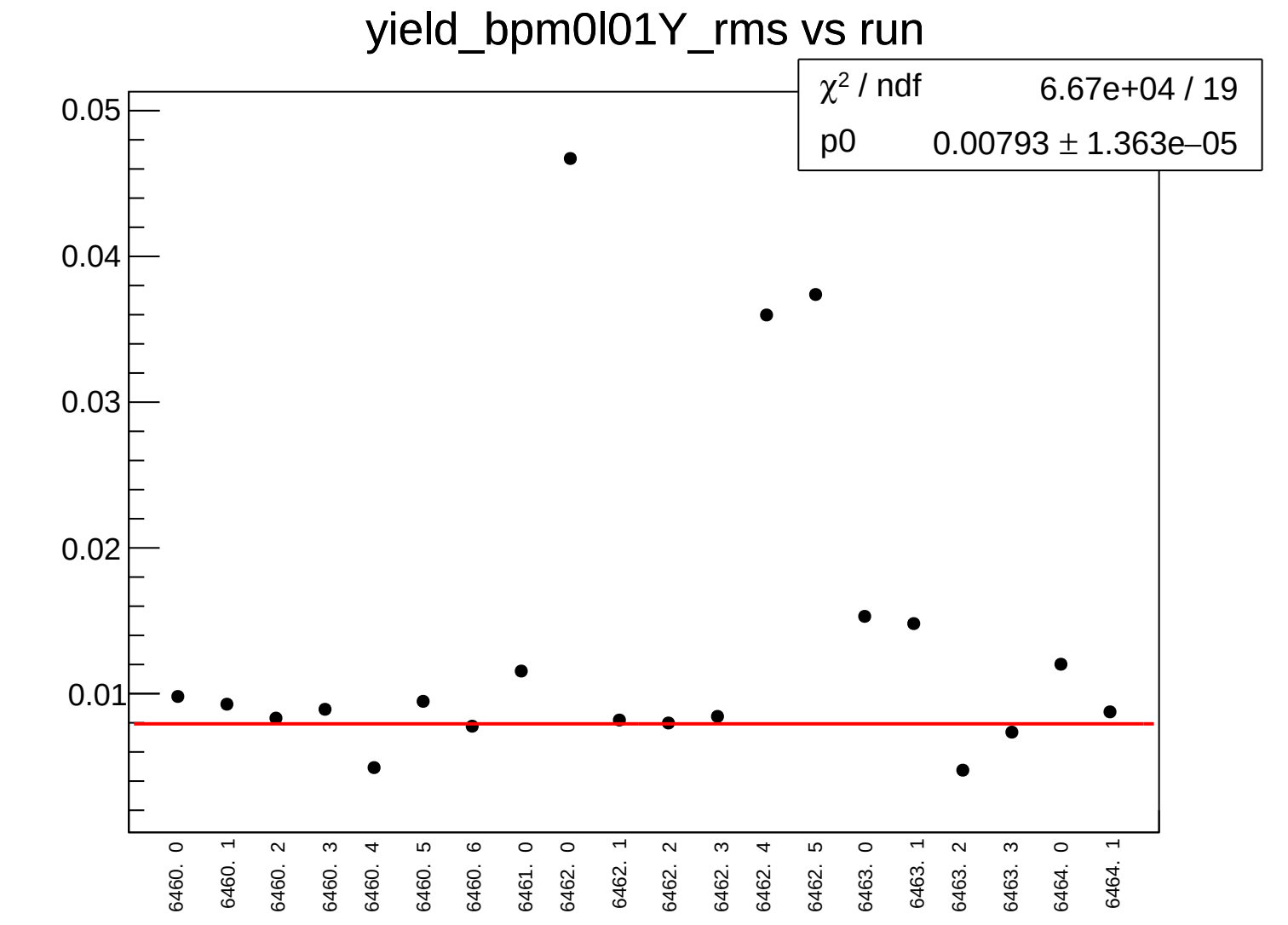

pull
Entries 20
Mean −957.2
Std Dev 0
600
400
200
0
−200
−400

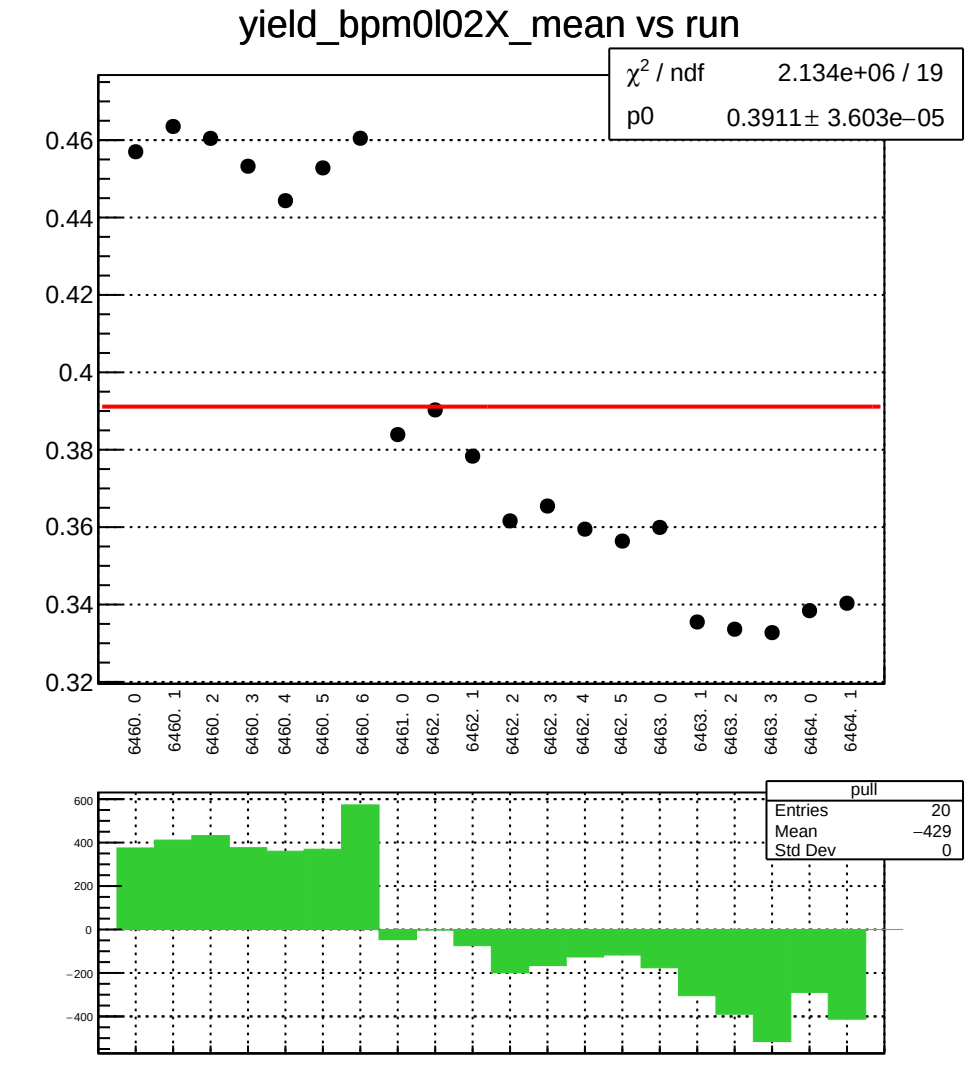

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

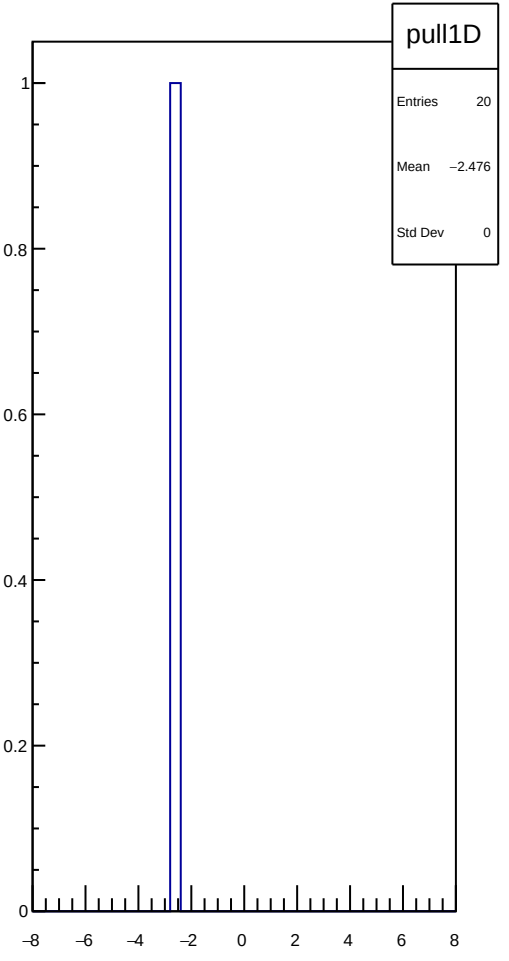

yield_bpm0l01X_rms vs run
χ² / ndf 673.2 / 19
p0 0.007253 ± 1.14e–05
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

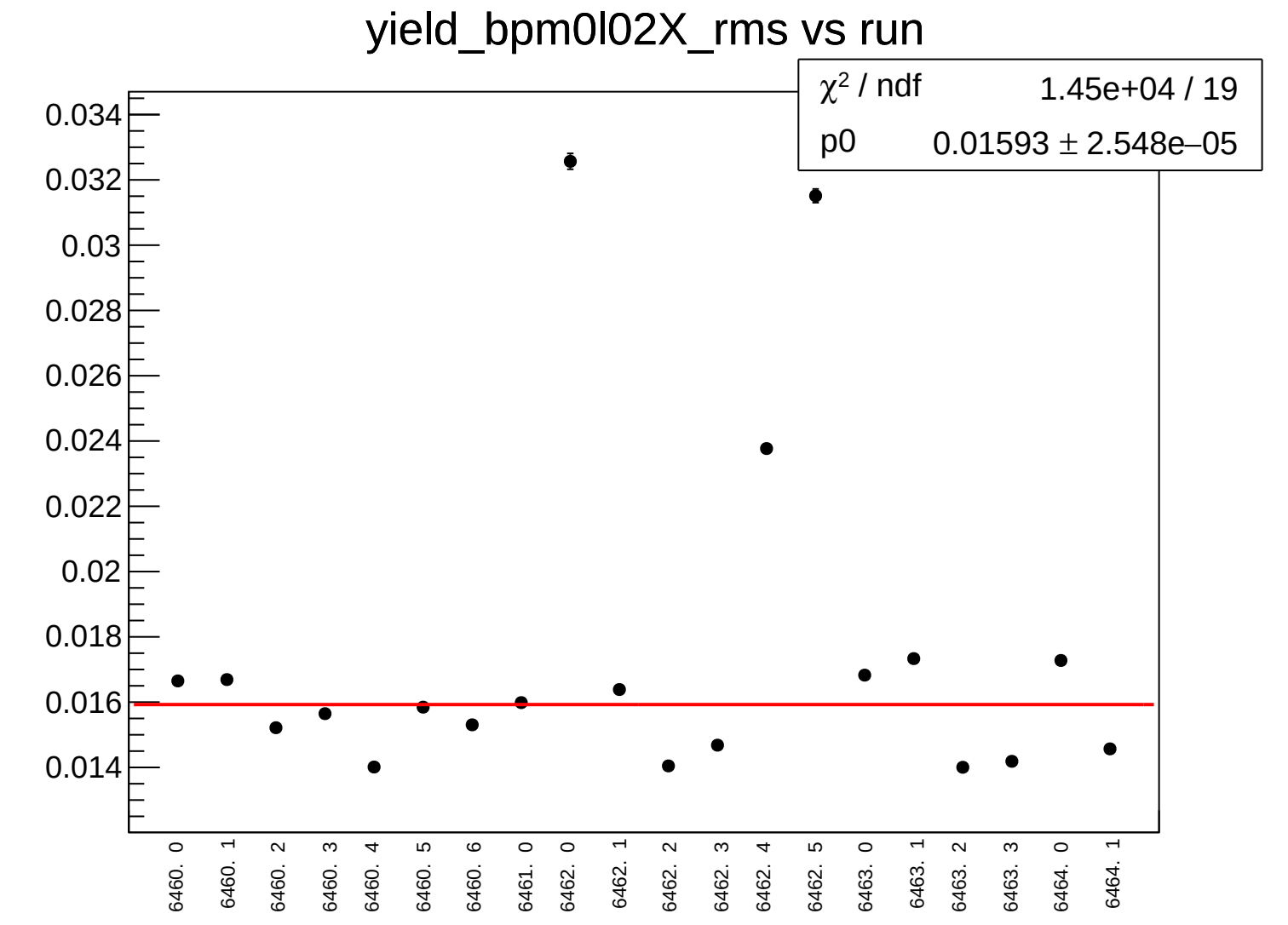

yield_bpm0l01Y_mean vs run
χ² / ndf 2.189e+05 / 19
p0 −5.904 ± 1.928e−05
−5.89
−5.9
−5.91
−5.92
−5.93
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.4
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

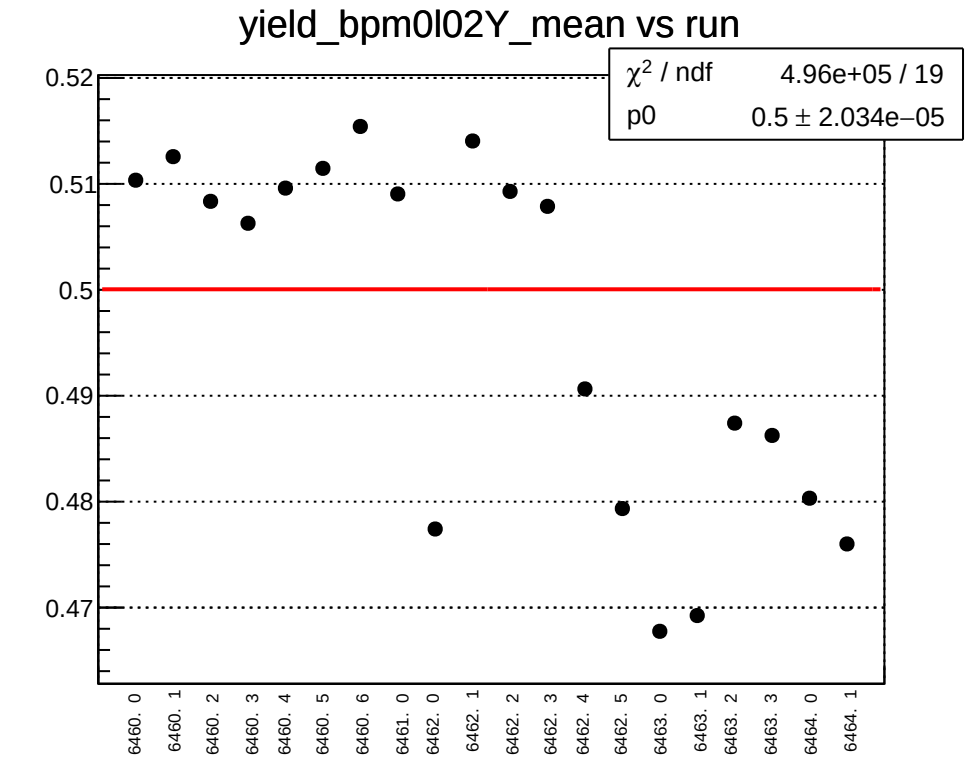

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

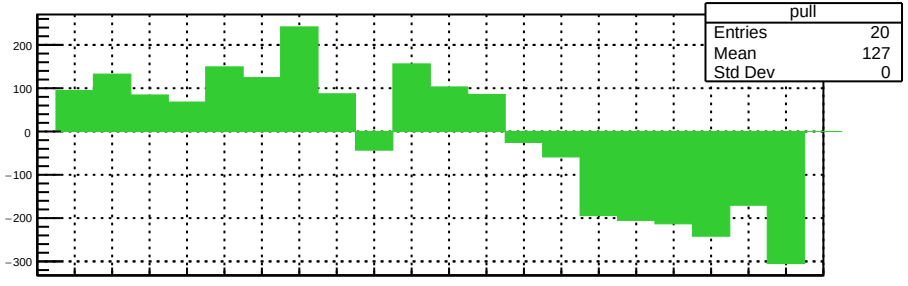

yield_bpm0l01Y_rms vs run
χ² / ndf 6.67e+04 / 19
p0 0.00793 ± 1.363e–05
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

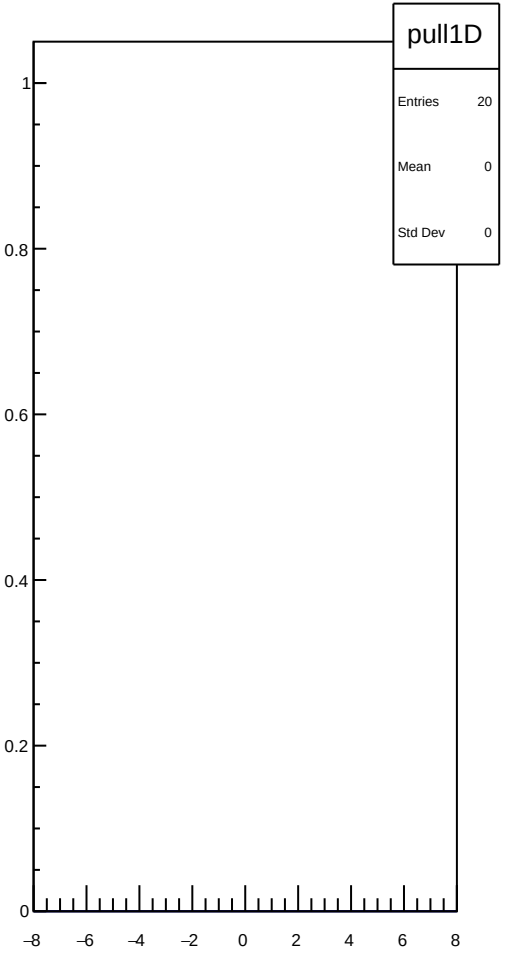

yield_bpm0l02X_mean vs run
χ² / ndf 2.134e+06 / 19
p0 0.3911 ± 3.603e−05
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −429
Std Dev 0
600
400
200
0
−200
−400

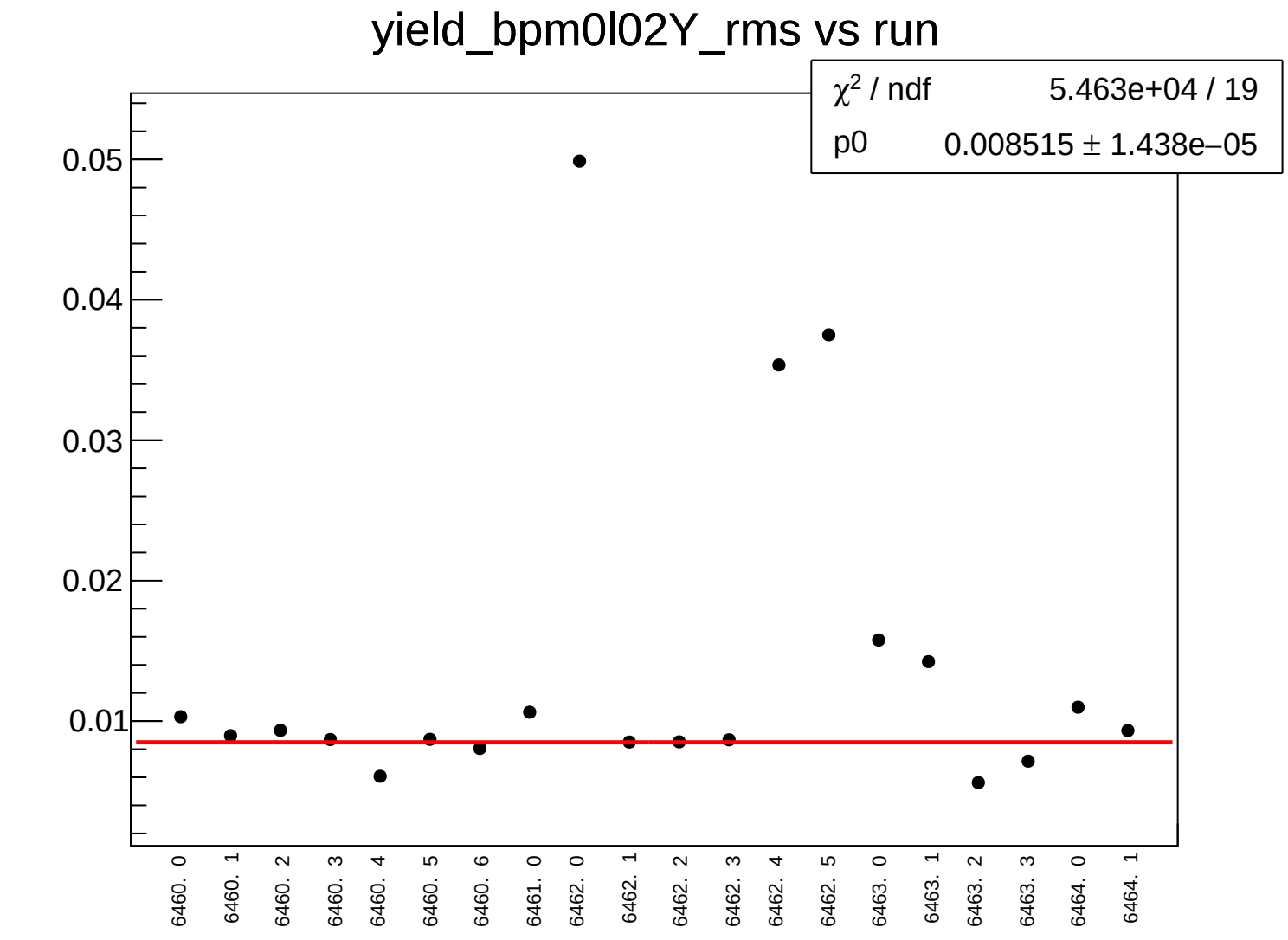

pull1D
Entries 20
Mean −2.476
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

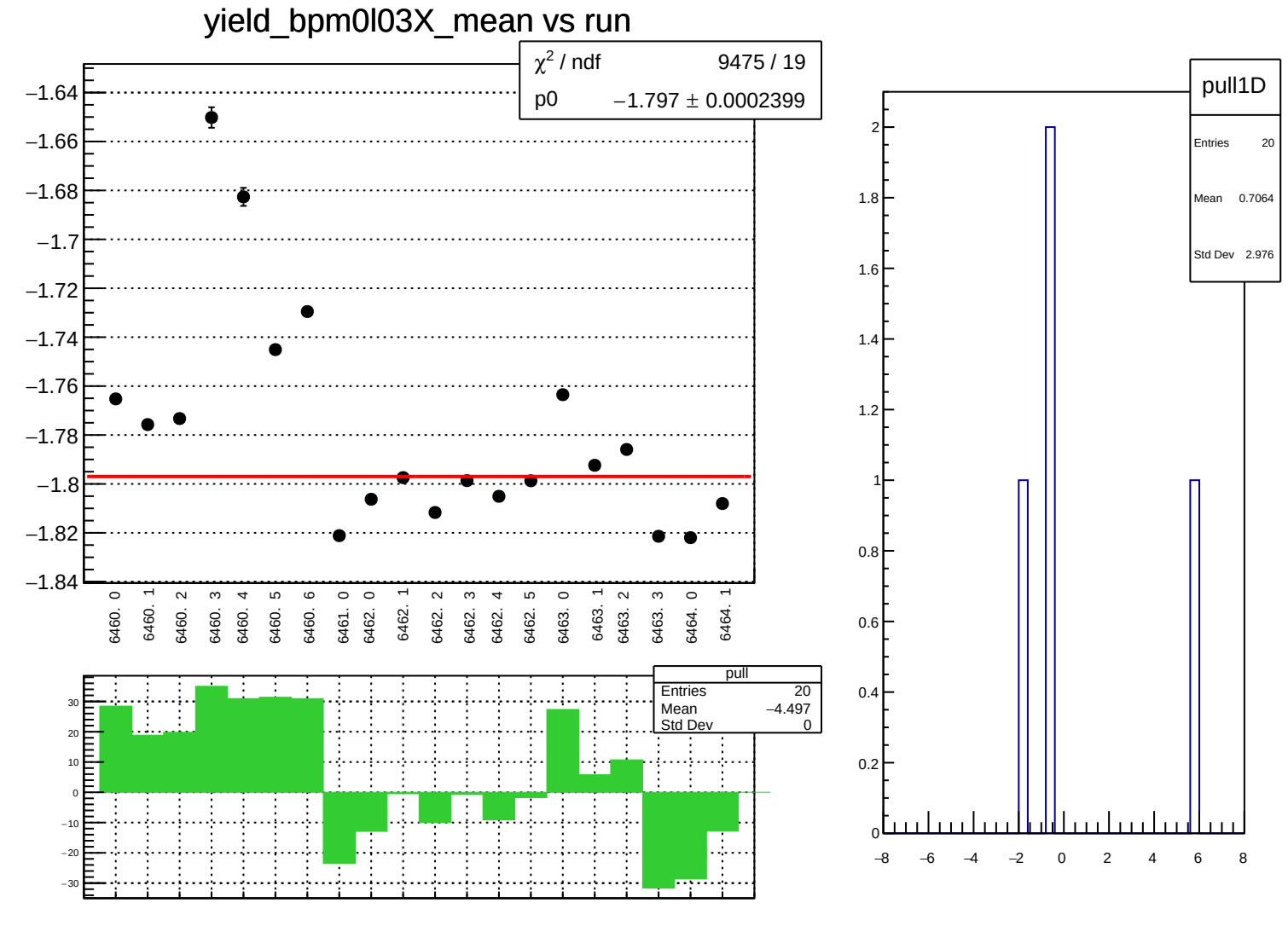

yield_bpm0l02X_rms vs run
χ² / ndf 1.45e+04 / 19
p0 0.01593 ± 2.548e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

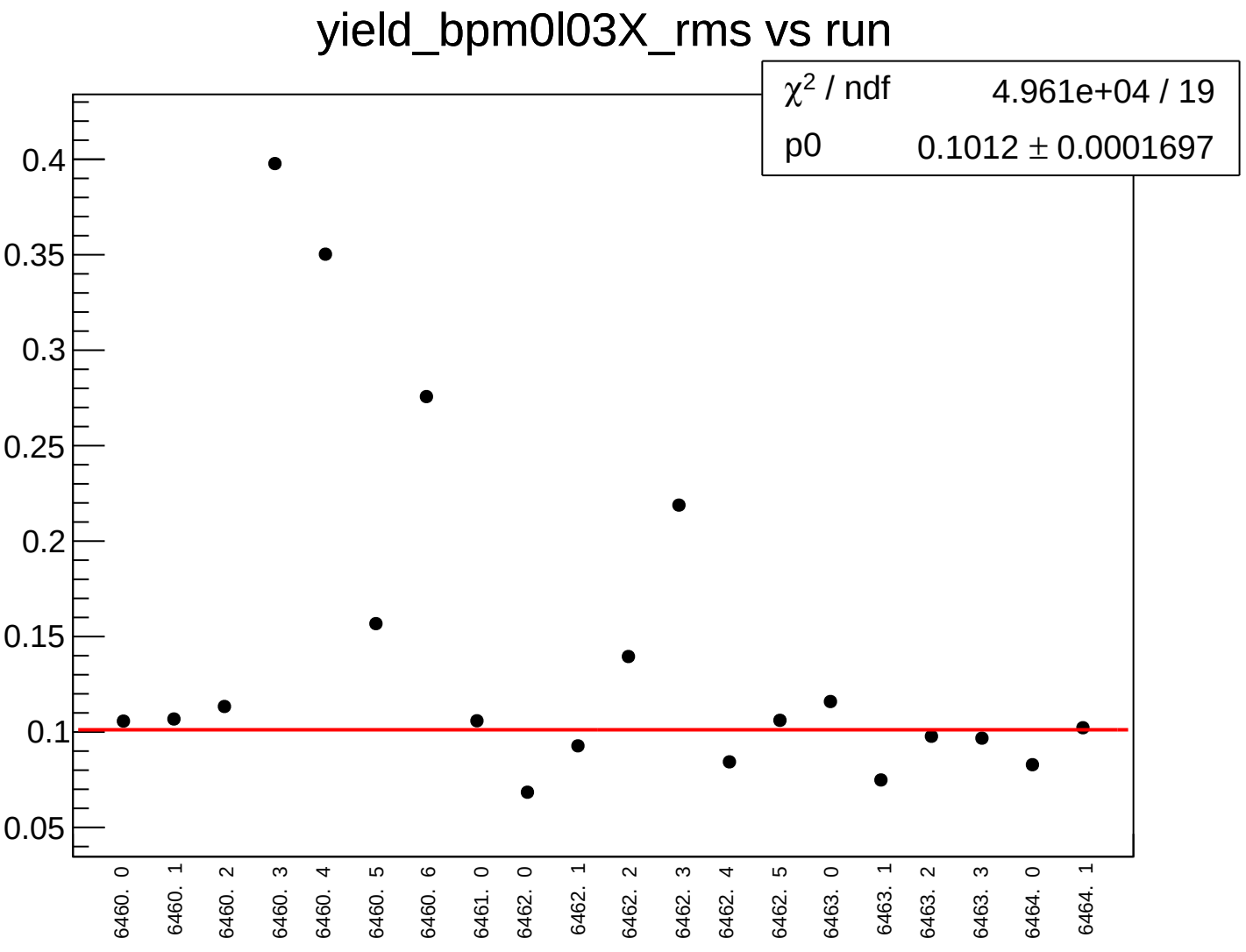

yield_bpm0l02Y_mean vs run
χ² / ndf 4.96e+05 / 19
p0 0.5 ± 2.034e−05
0.52
0.51
0.5
0.49
0.48
0.47
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

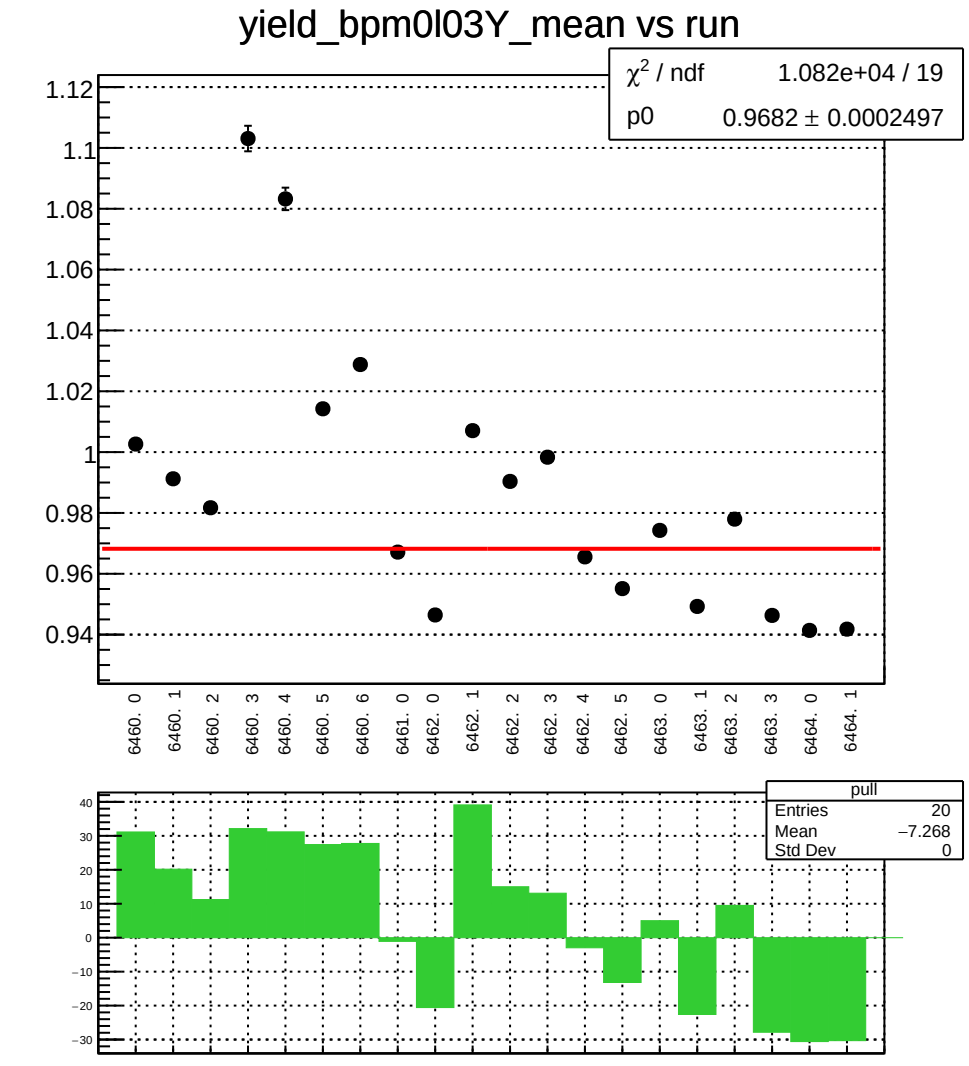

pull
Entries 20
Mean 127
Std Dev 0
200
100
0
−100
−200
−300

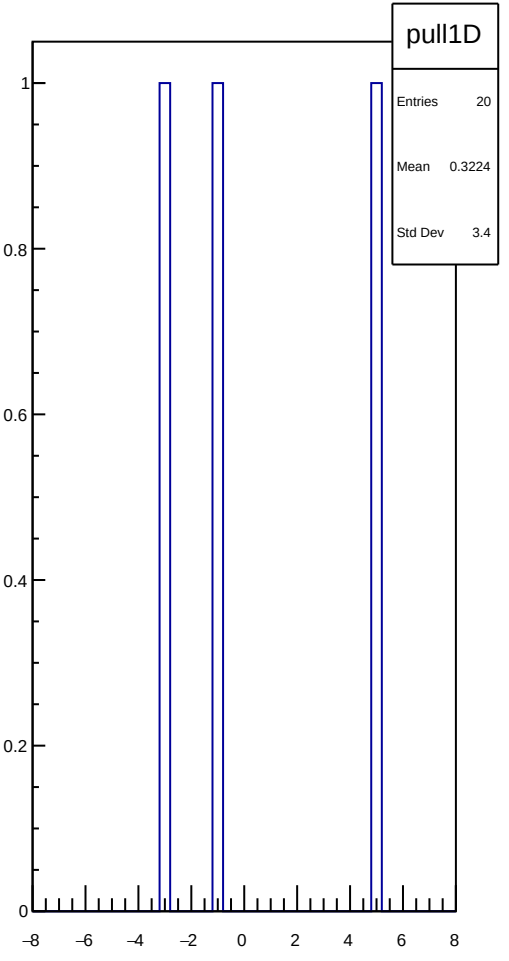

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

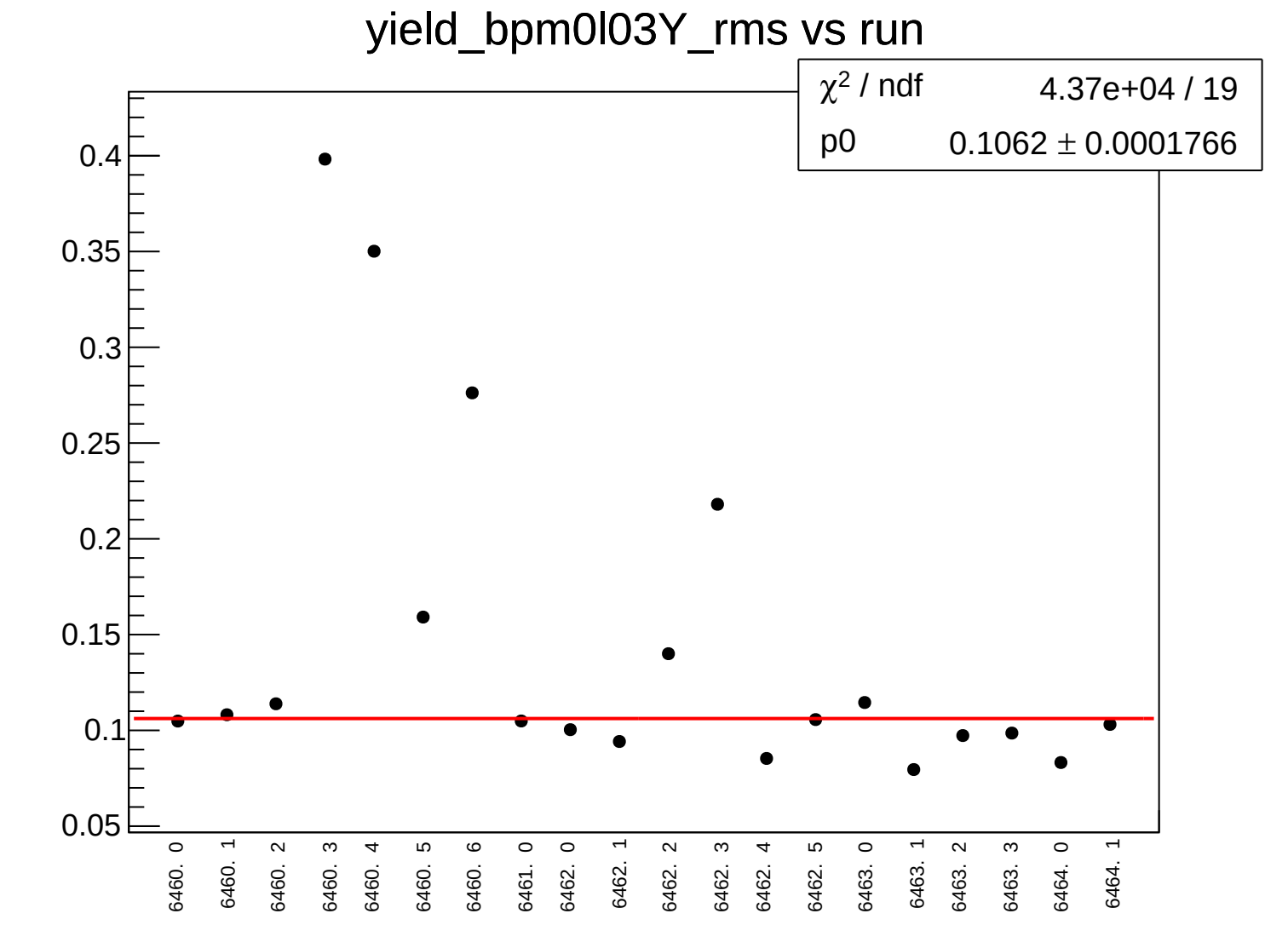

yield_bpm0l02Y_rms vs run
χ² / ndf 5.463e+04 / 19
p0 0.008515 ± 1.438e−05
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

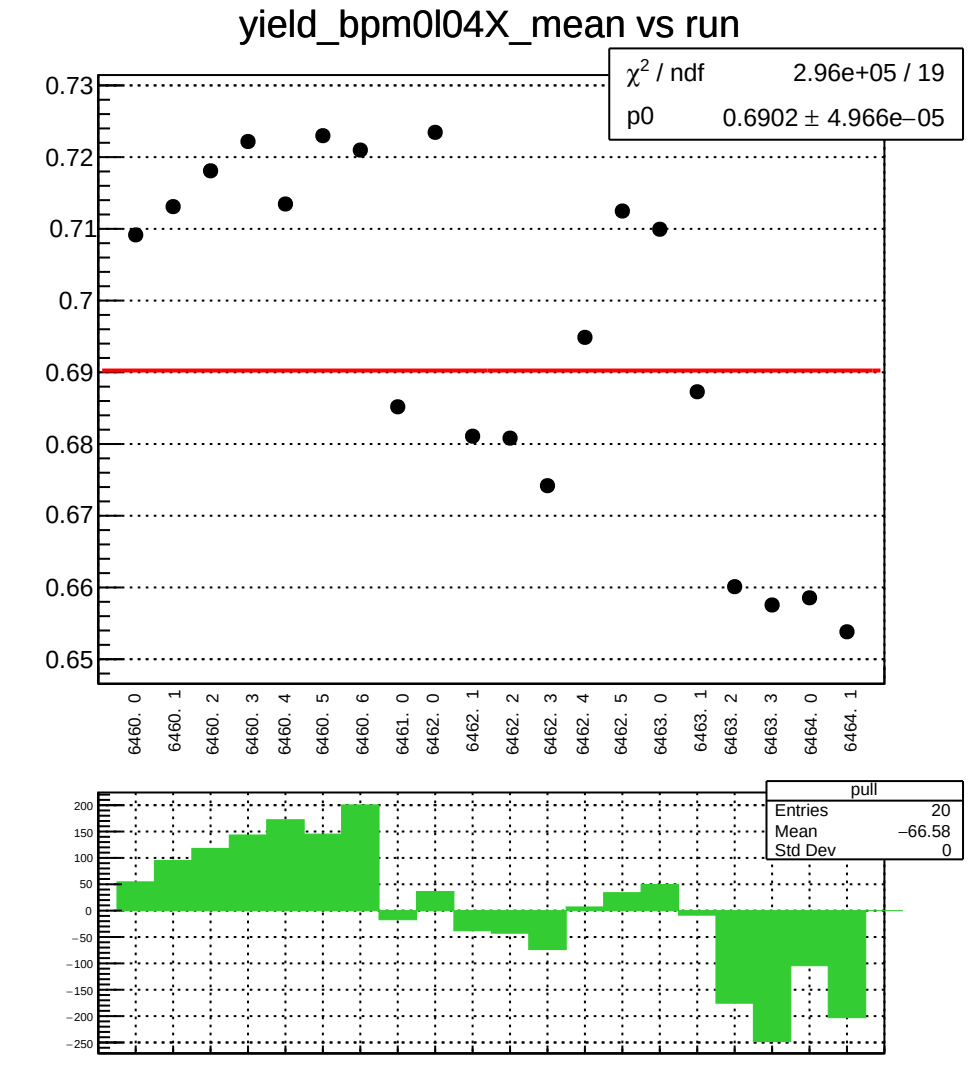

yield_bpm0l03X_mean vs run
χ² / ndf 9475 / 19
p0 −1.797 ± 0.0002399
−1.64
−1.66
−1.68
−1.7
−1.72
−1.74
−1.76
−1.78
−1.8
−1.82
−1.84
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.497
Std Dev 0
30
20
10
0
−10
−20
−30
pull1D
Entries 20
Mean 0.7064
Std Dev 2.976
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

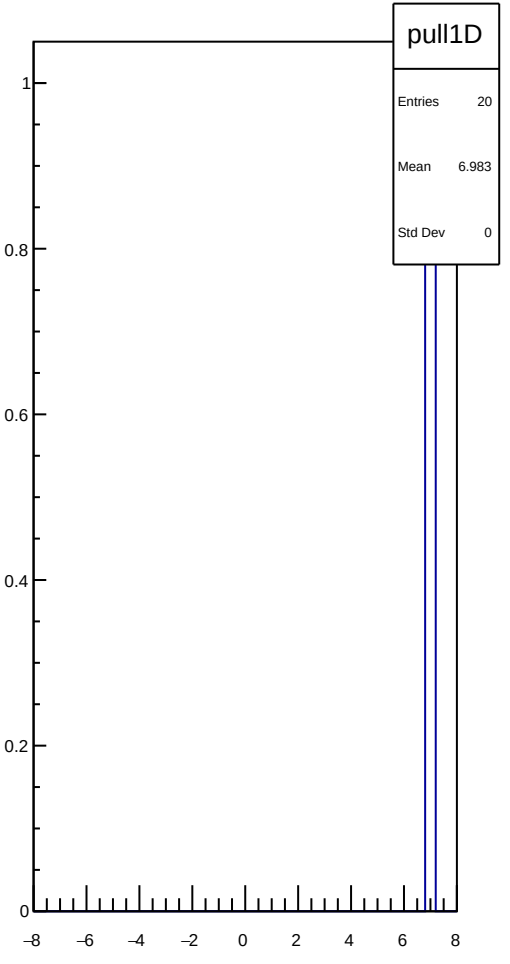

yield_bpm0l03X_rms vs run
χ² / ndf 4.961e+04 / 19
p0 0.1012 ± 0.0001697
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

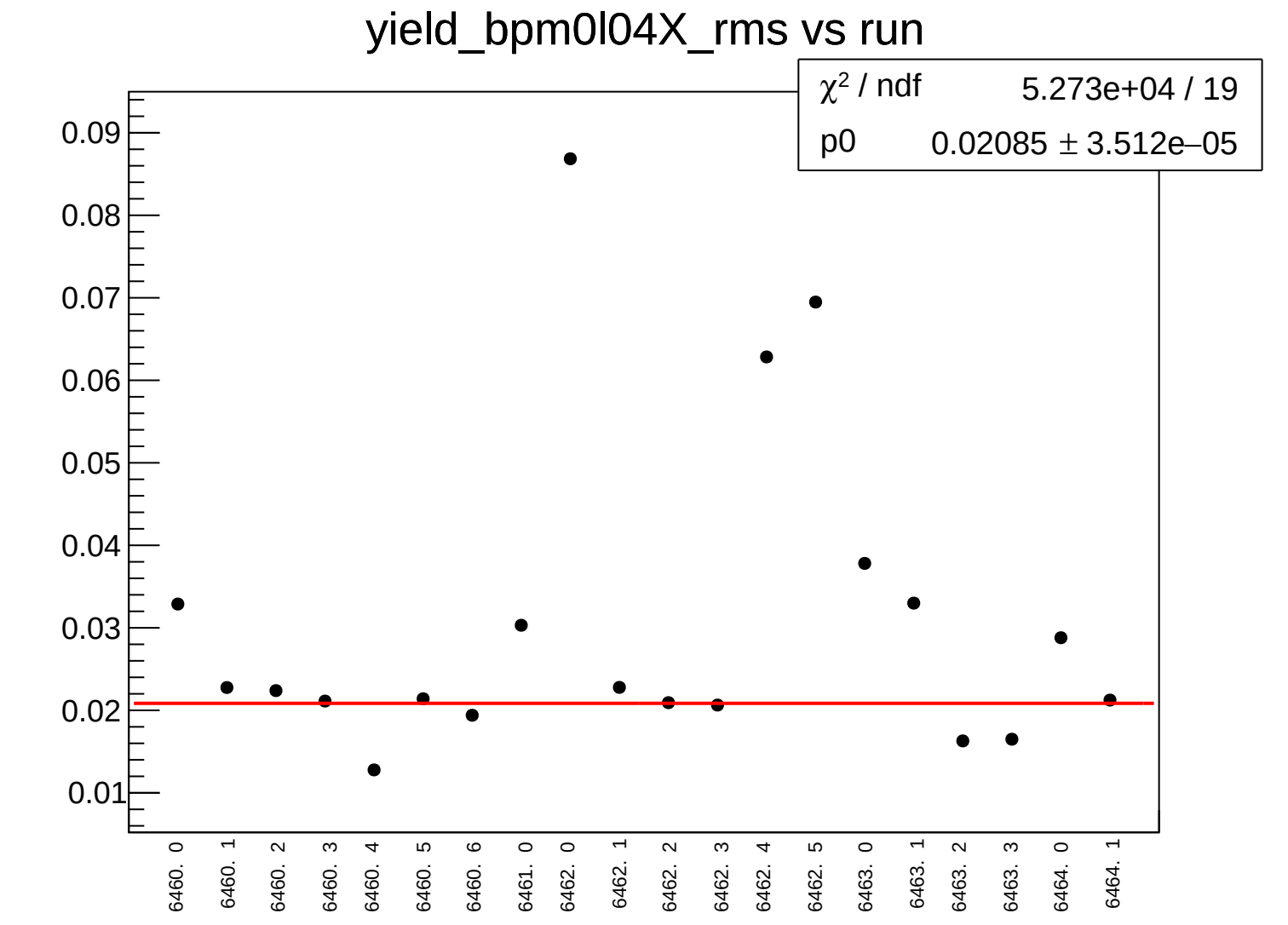

yield_bpm0l03Y_mean vs run
χ² / ndf 1.082e+04 / 19
p0 0.9682 ± 0.0002497
1.12
1.1
1.08
1.06
1.04
1.02
1
0.98
0.96
0.94
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −7.268
Std Dev 0
40
30
20
10
0
−10
−20
−30

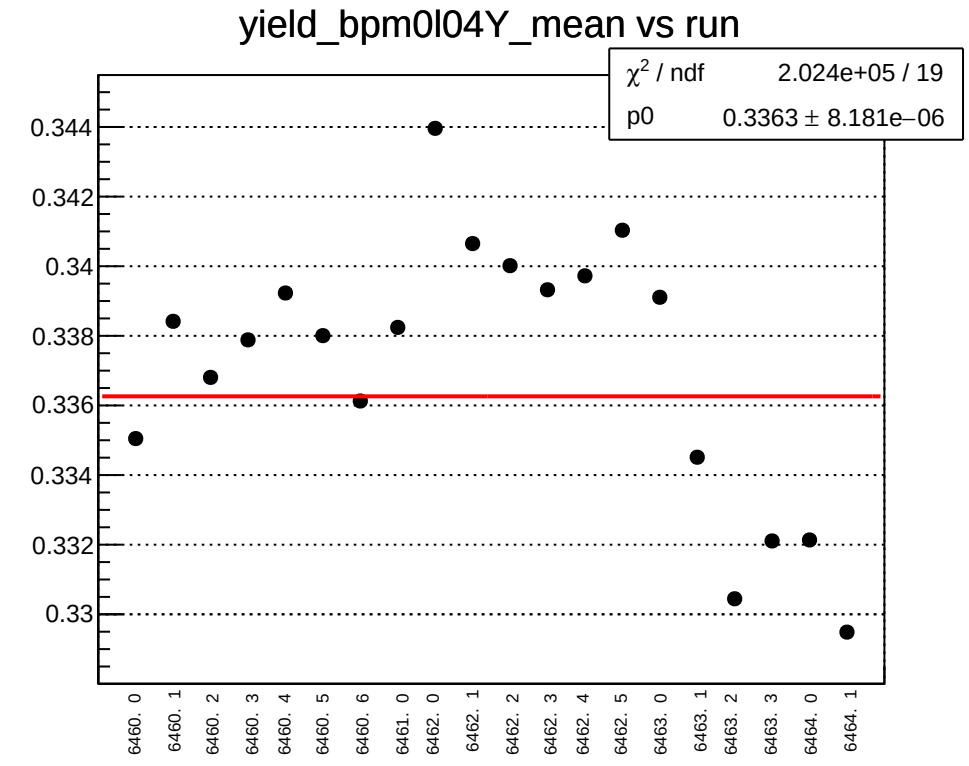

pull1D
Entries 20
Mean 0.3224
Std Dev 3.4
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

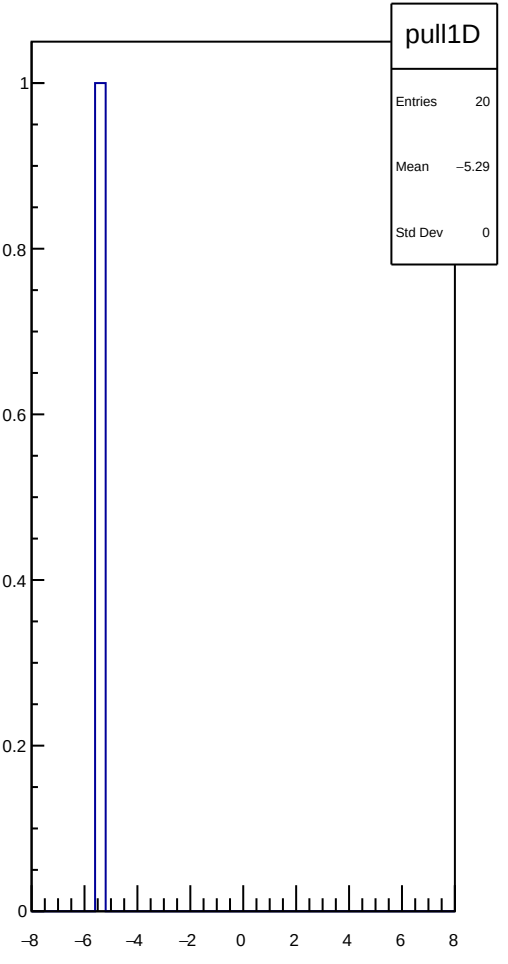

yield_bpm0l03Y_rms vs run
χ² / ndf 4.37e+04 / 19
p0 0.1062 ± 0.0001766
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

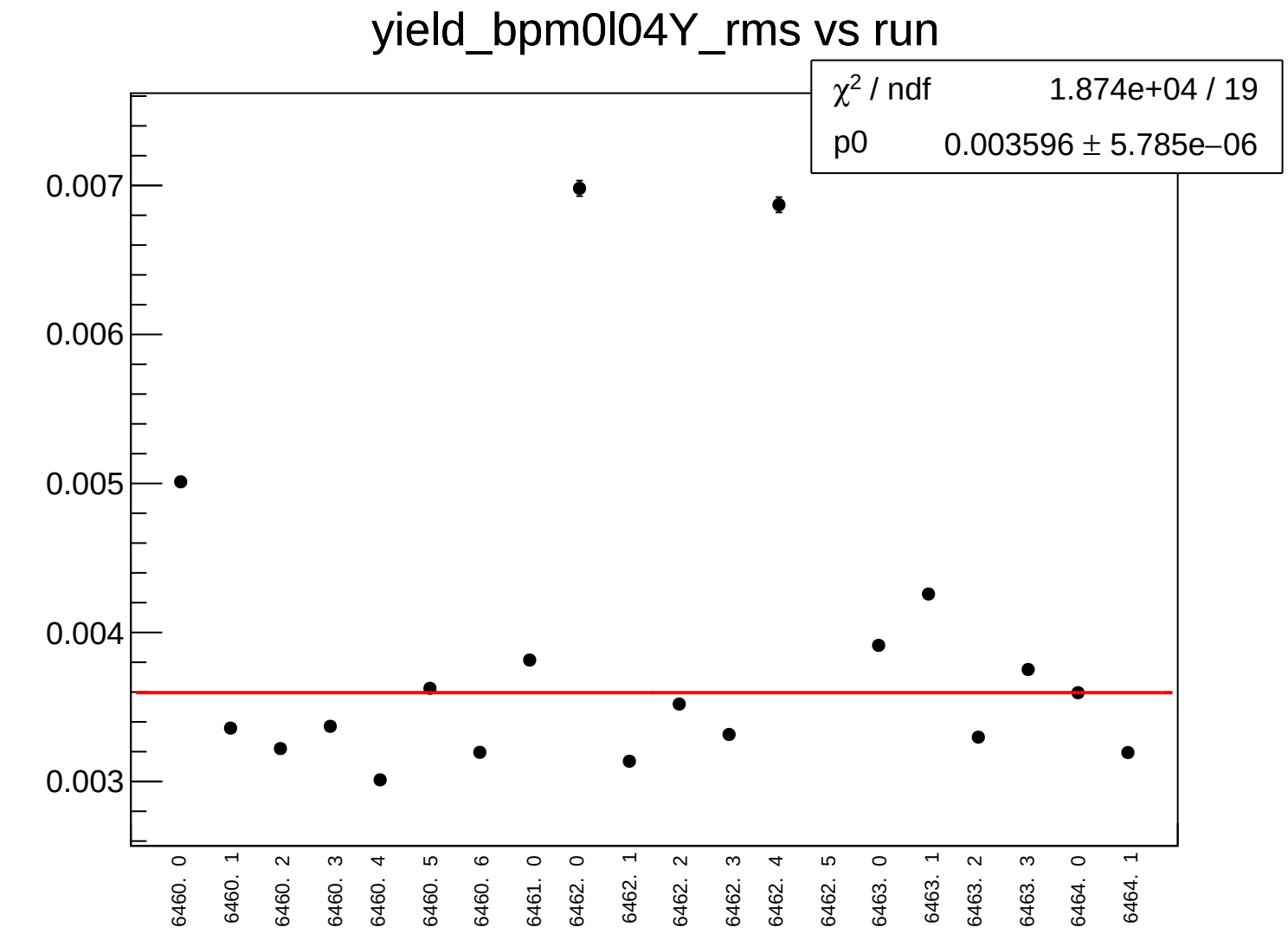

yield_bpm0l04X_mean vs run
χ² / ndf 2.96e+05 / 19
p0 0.6902 ± 4.966e−05
0.73
0.72
0.71
0.7
0.69
0.68
0.67
0.66
0.65
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −66.58
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

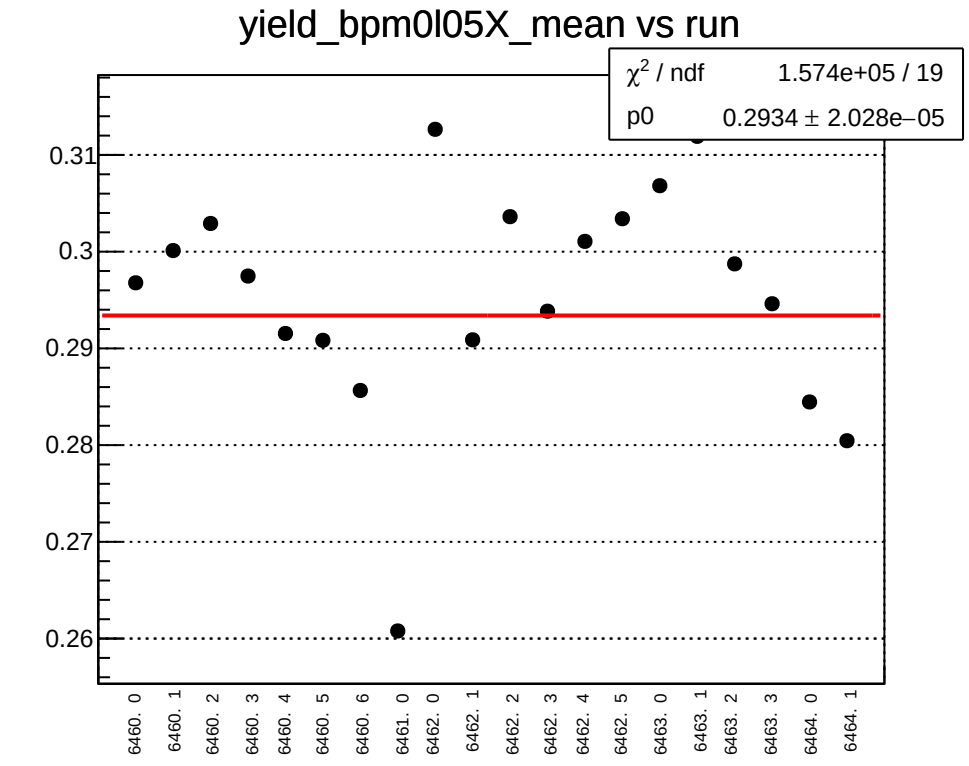

pull1D
Entries 20
Mean 6.983
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

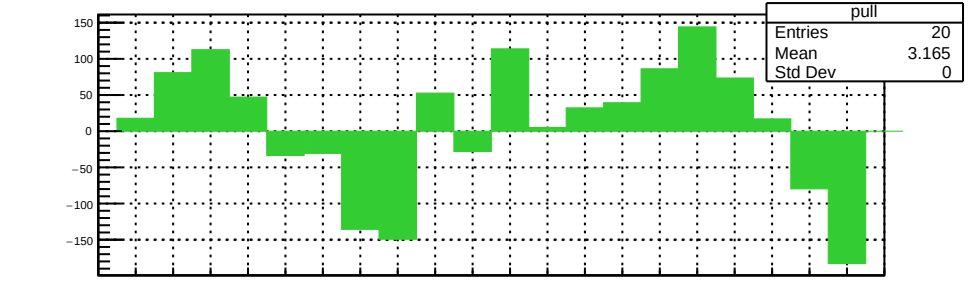

yield_bpm0l04X_rms vs run
χ² / ndf 5.273e+04 / 19
p0 0.02085 ± 3.512e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

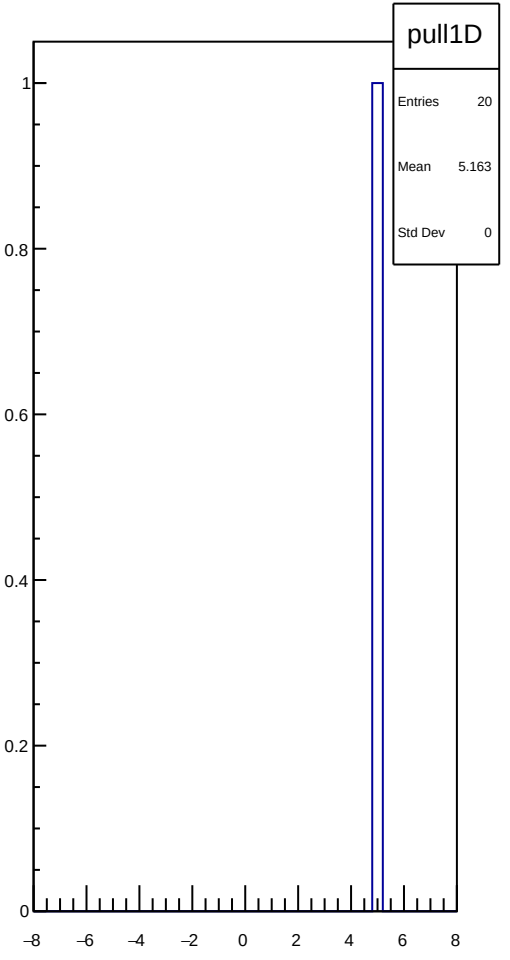

yield_bpm0l04Y_mean vs run
χ² / ndf 2.024e+05 / 19
p0 0.3363 ± 8.181e−06
0.344
0.342
0.34
0.338
0.336
0.334
0.332
0.33
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.45
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

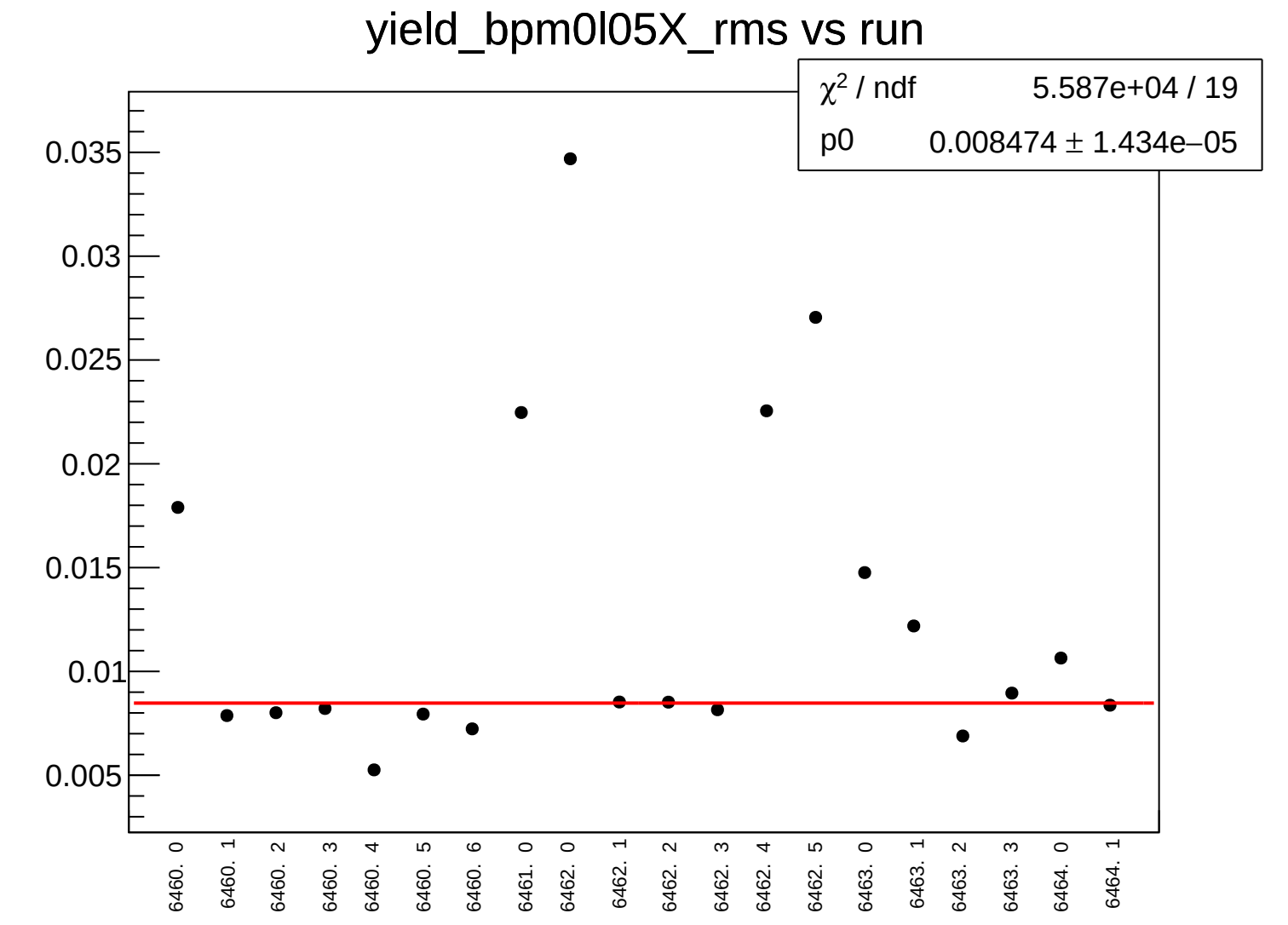

pull1D
Entries 20
Mean −5.29
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

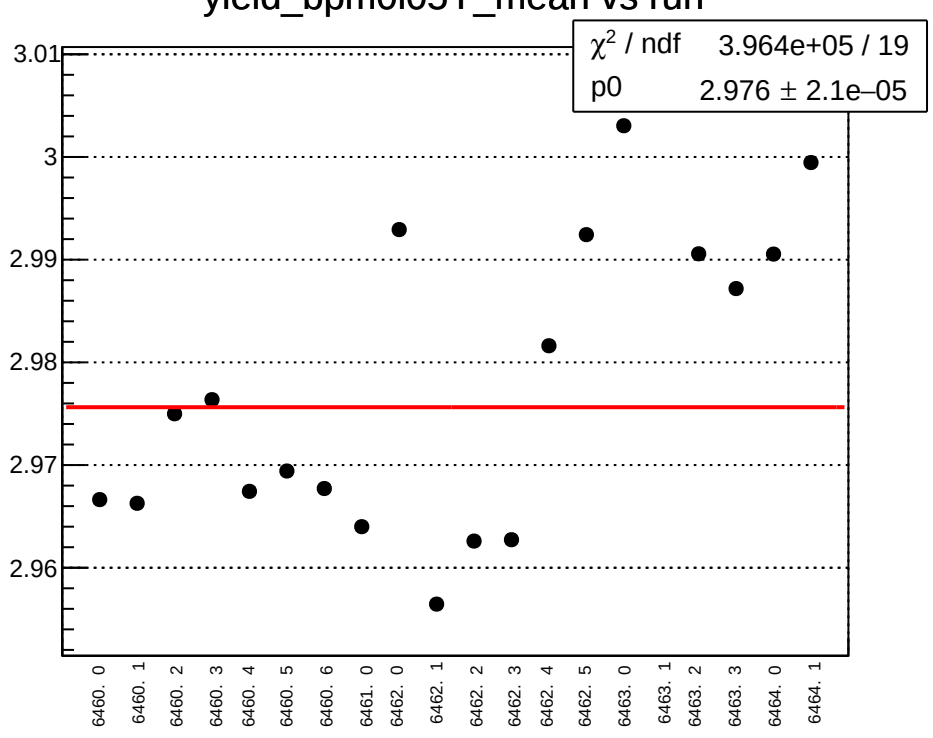

yield_bpm0l04Y_rms vs run
χ² / ndf 1.874e+04 / 19
p0 0.003596 ± 5.785e−06
0.007
0.006
0.005
0.004
0.003
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

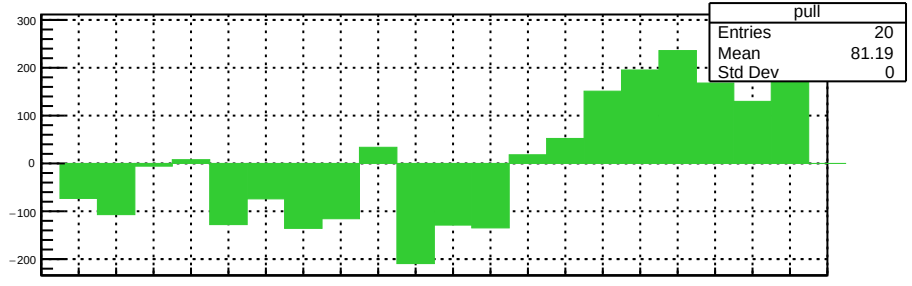

yield_bpm0l05X_mean vs run
χ² / ndf 1.574e+05 / 19
p0 0.2934 ± 2.028e−05
0.31
0.3
0.29
0.28
0.27
0.26
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

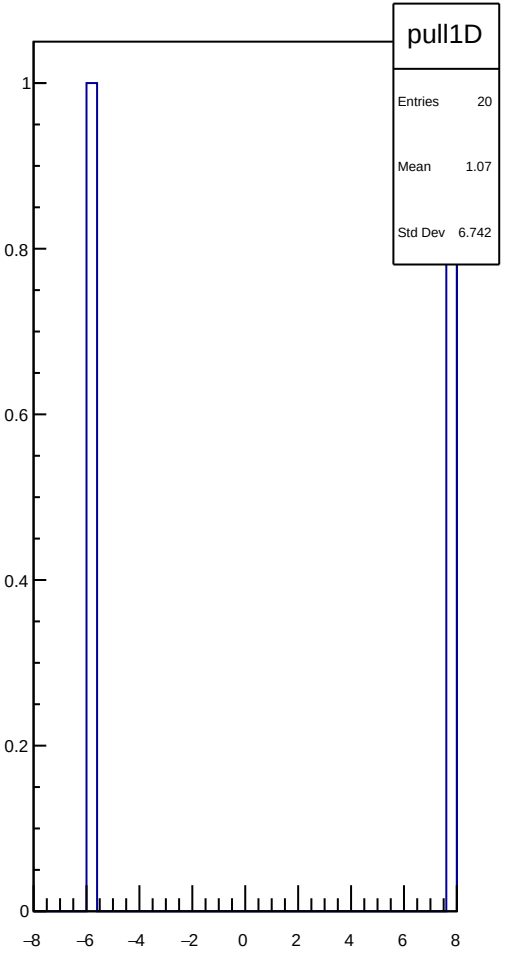

pull
Entries 20
Mean 3.165
Std Dev 0
150
100
50
0
−50
−100
−150

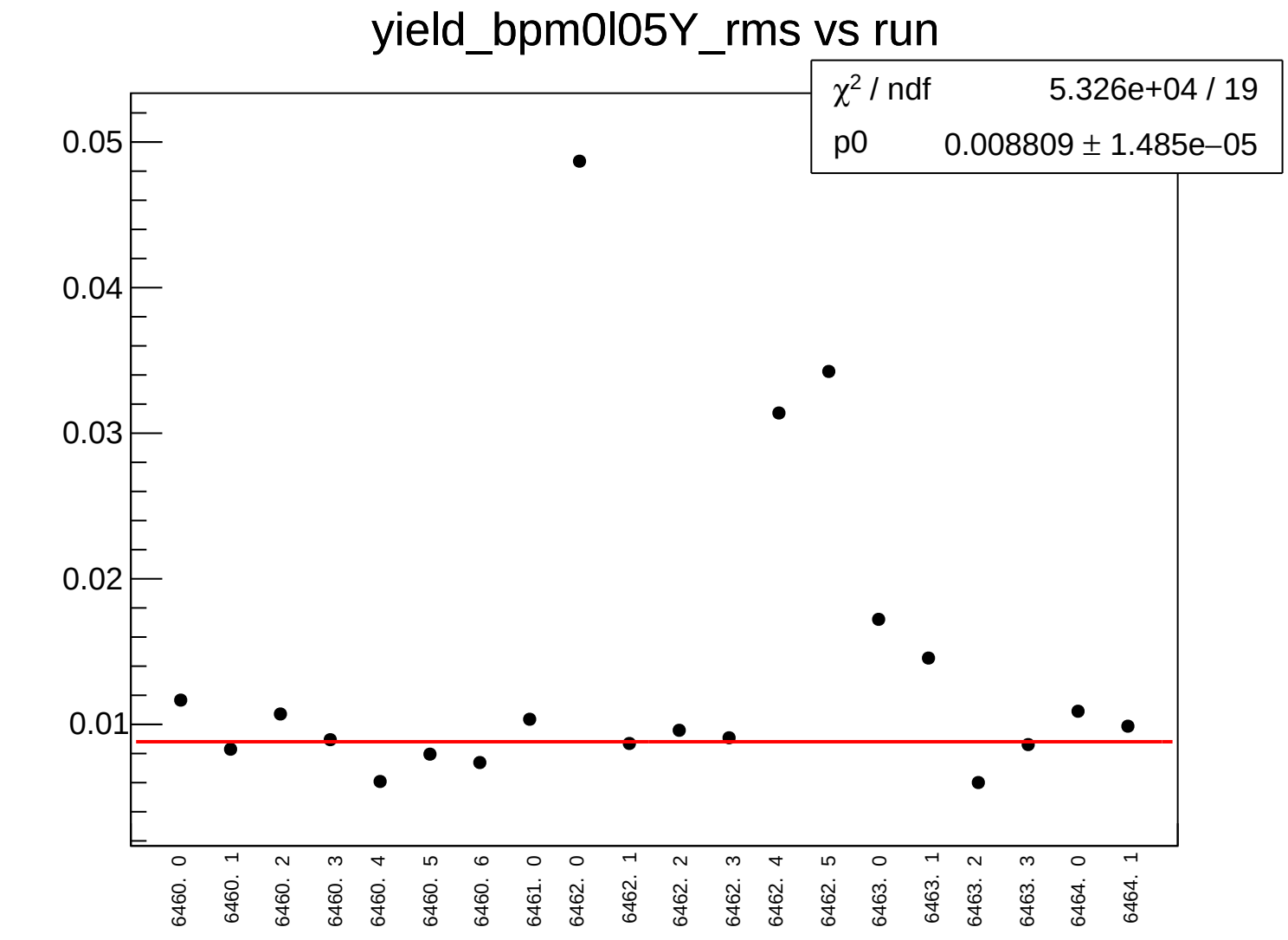

pull1D
Entries 20
Mean 5.163
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

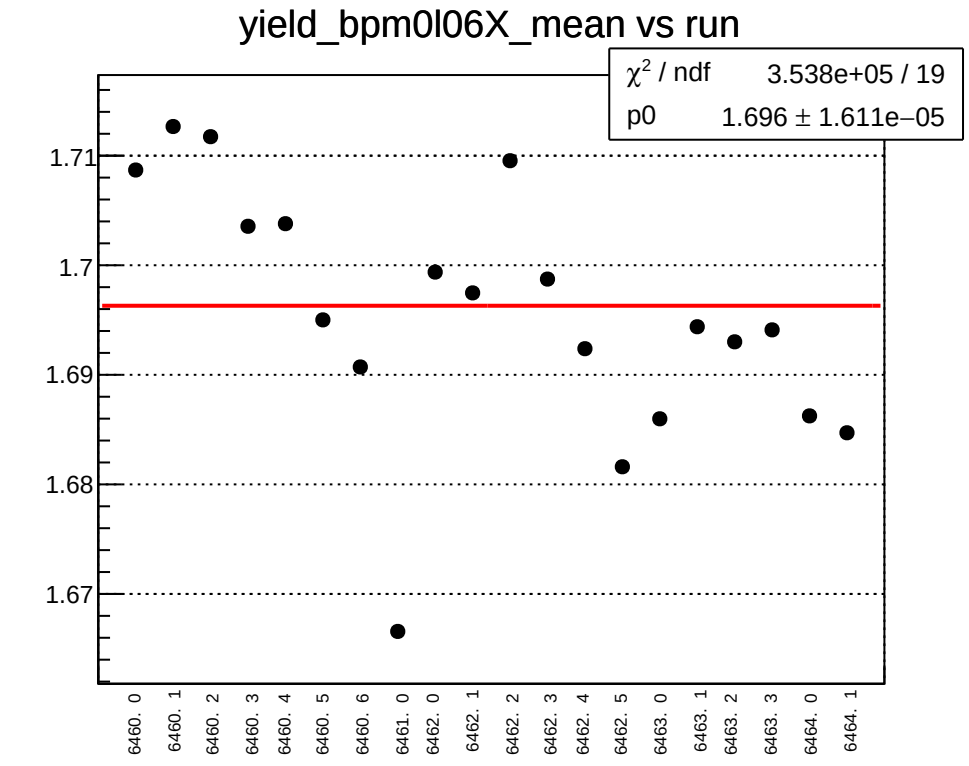

yield_bpm0l05X_rms vs run
χ² / ndf 5.587e+04 / 19
p0 0.008474 ± 1.434e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

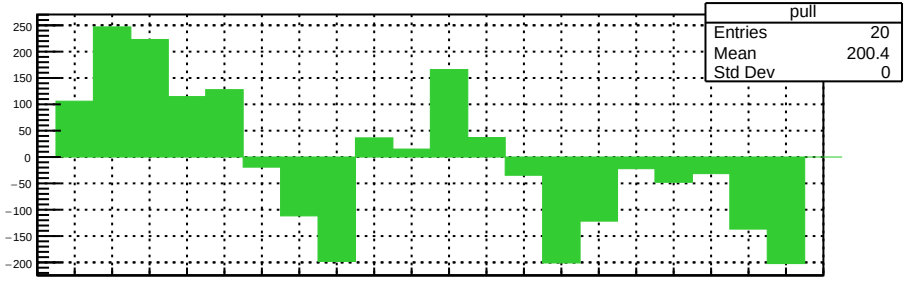

yield_bpm0l05Y_mean vs run
χ² / ndf 3.964e+05 / 19
p0 2.976 ± 2.1e–05
3.01
3
2.99
2.98
2.97
2.96
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

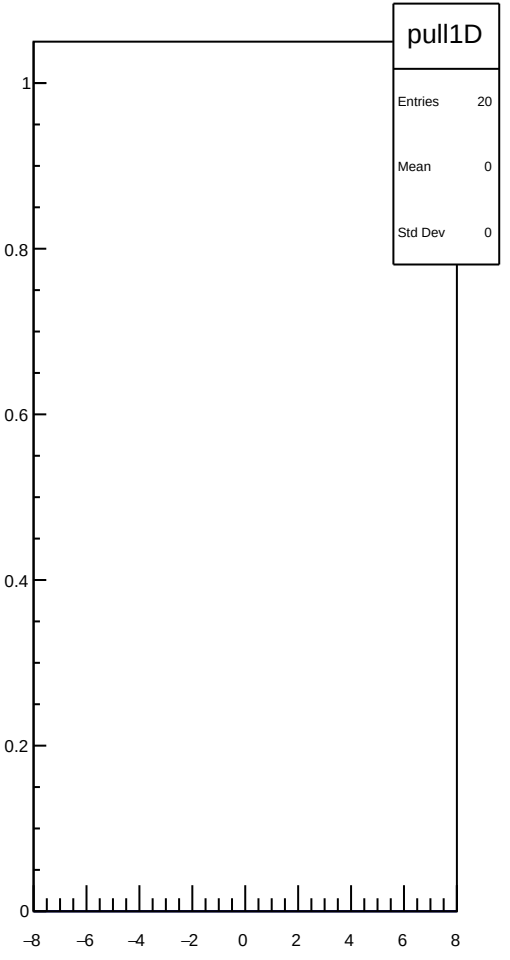

pull
Entries 20
Mean 81.19
Std Dev 0
300
200
100
0
−100
−200

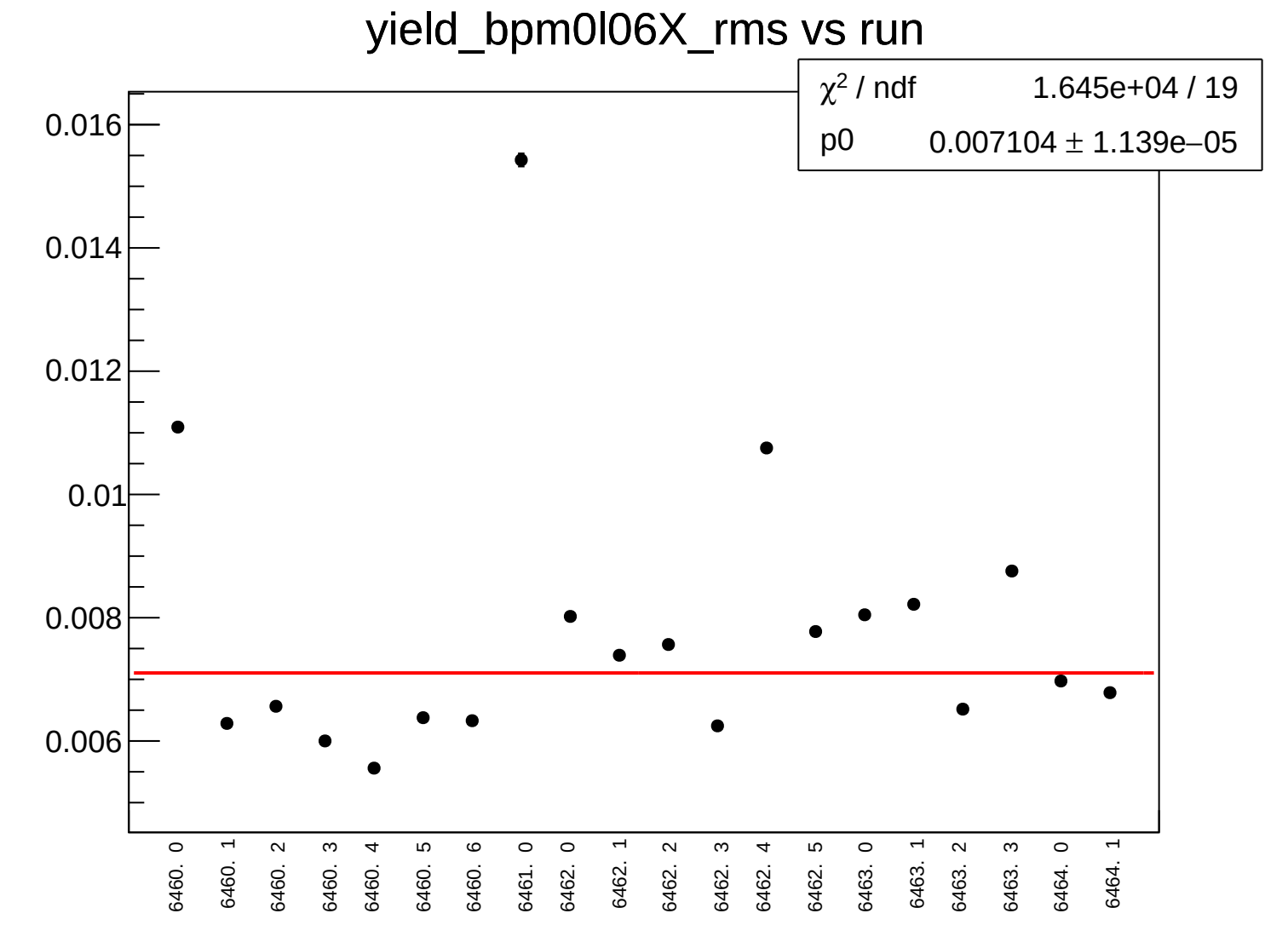

pull1D
Entries 20
Mean 1.07
Std Dev 6.742
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

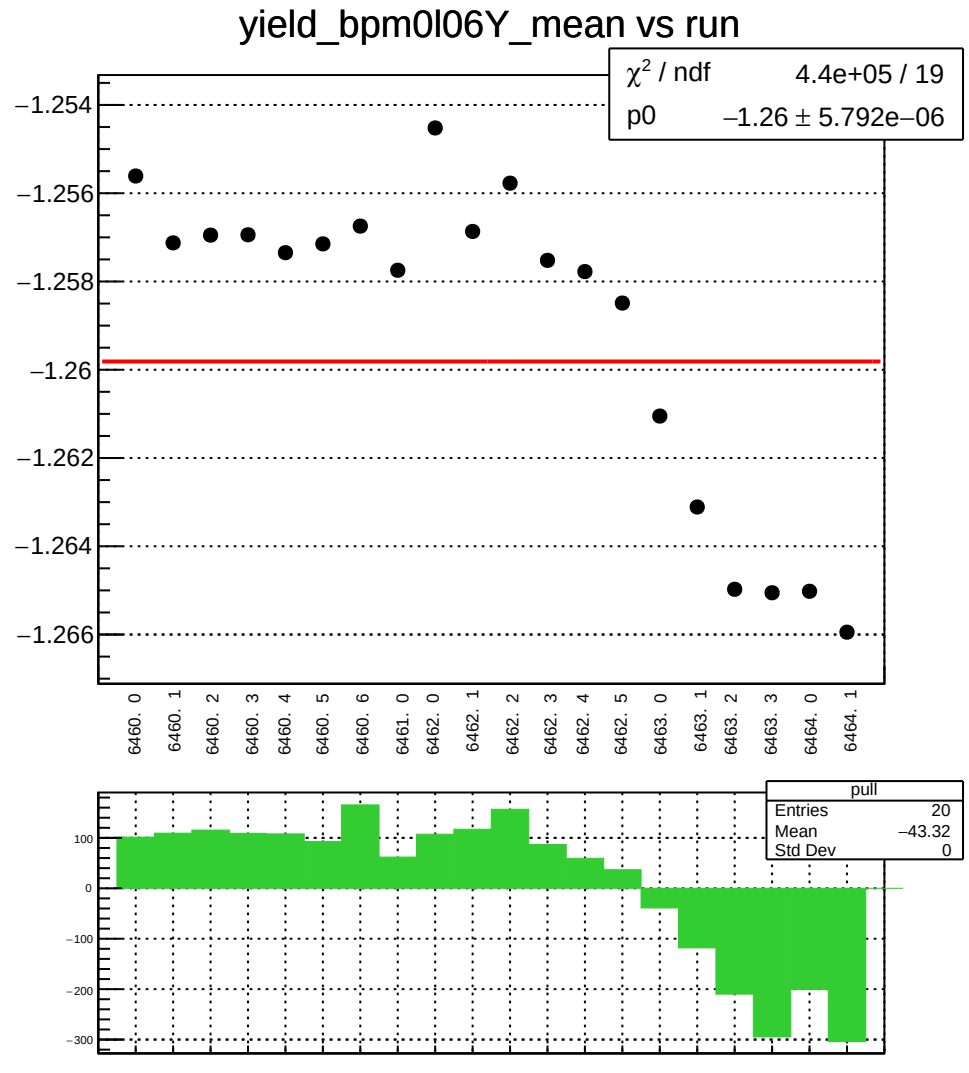

yield_bpm0l05Y_rms vs run
χ² / ndf 5.326e+04 / 19
p0 0.008809 ± 1.485e−05
0.05
0.04
0.03
0.02
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

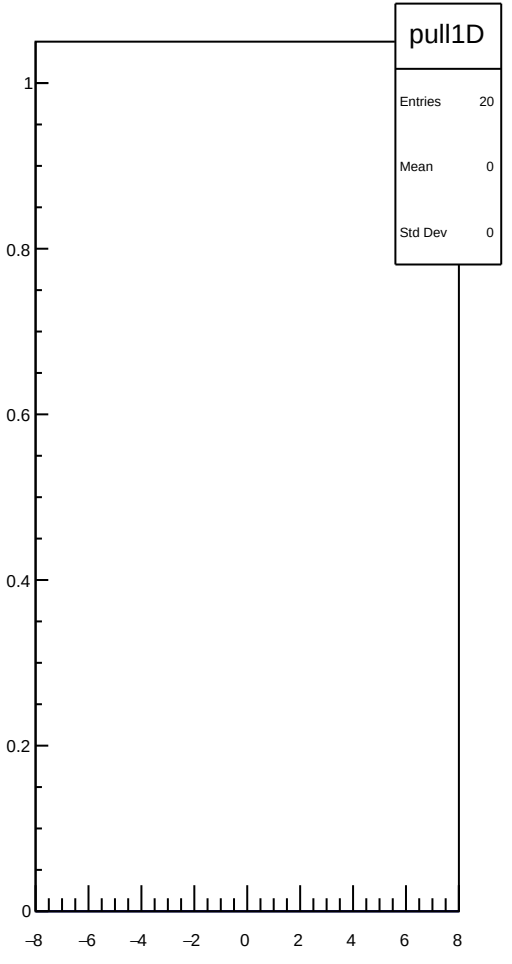

yield_bpm0l06X_mean vs run
χ² / ndf 3.538e+05 / 19
p0 1.696 ± 1.611e−05
1.71
1.7
1.69
1.68
1.67
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

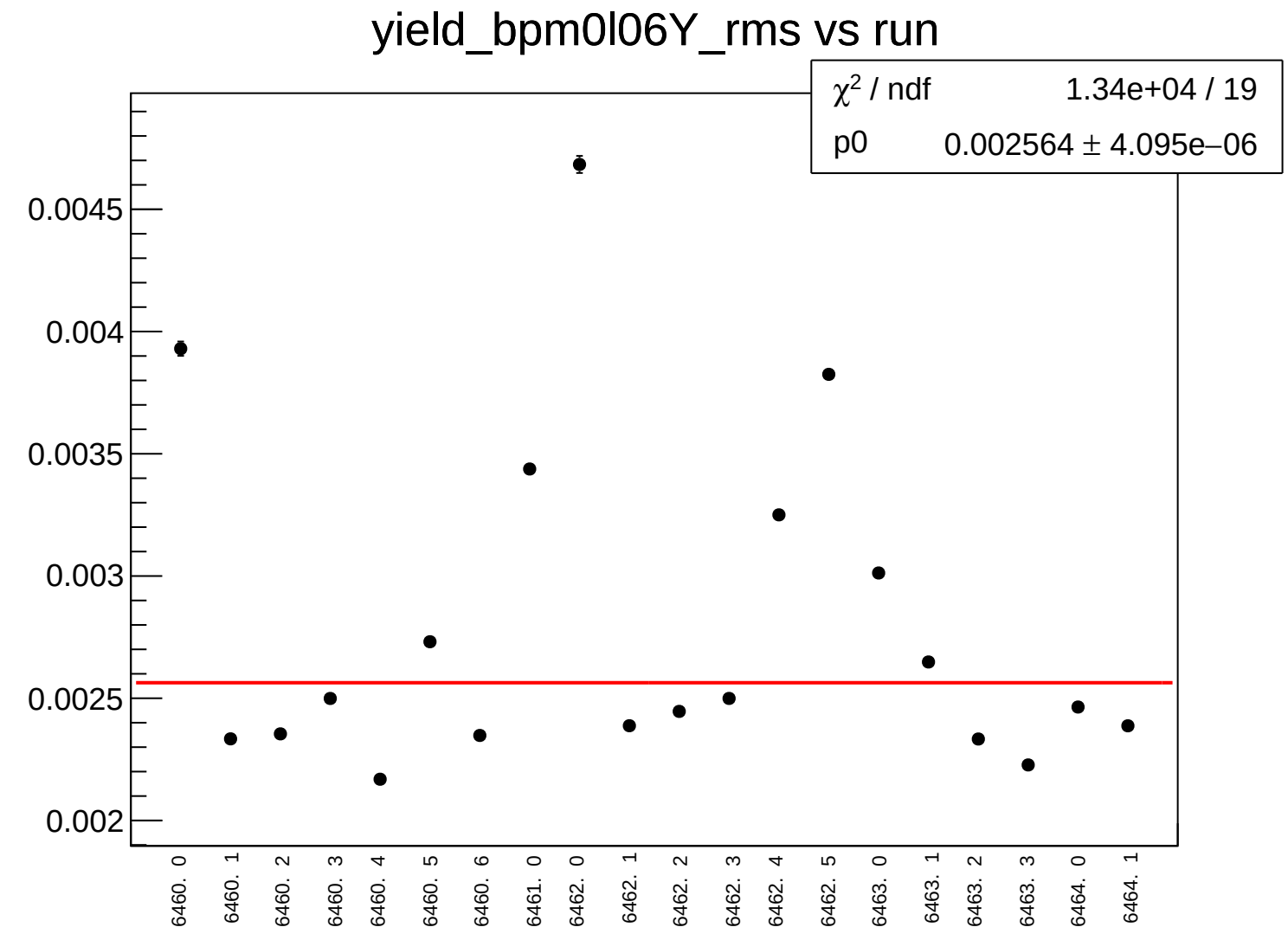

pull
Entries 20
Mean 200.4
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

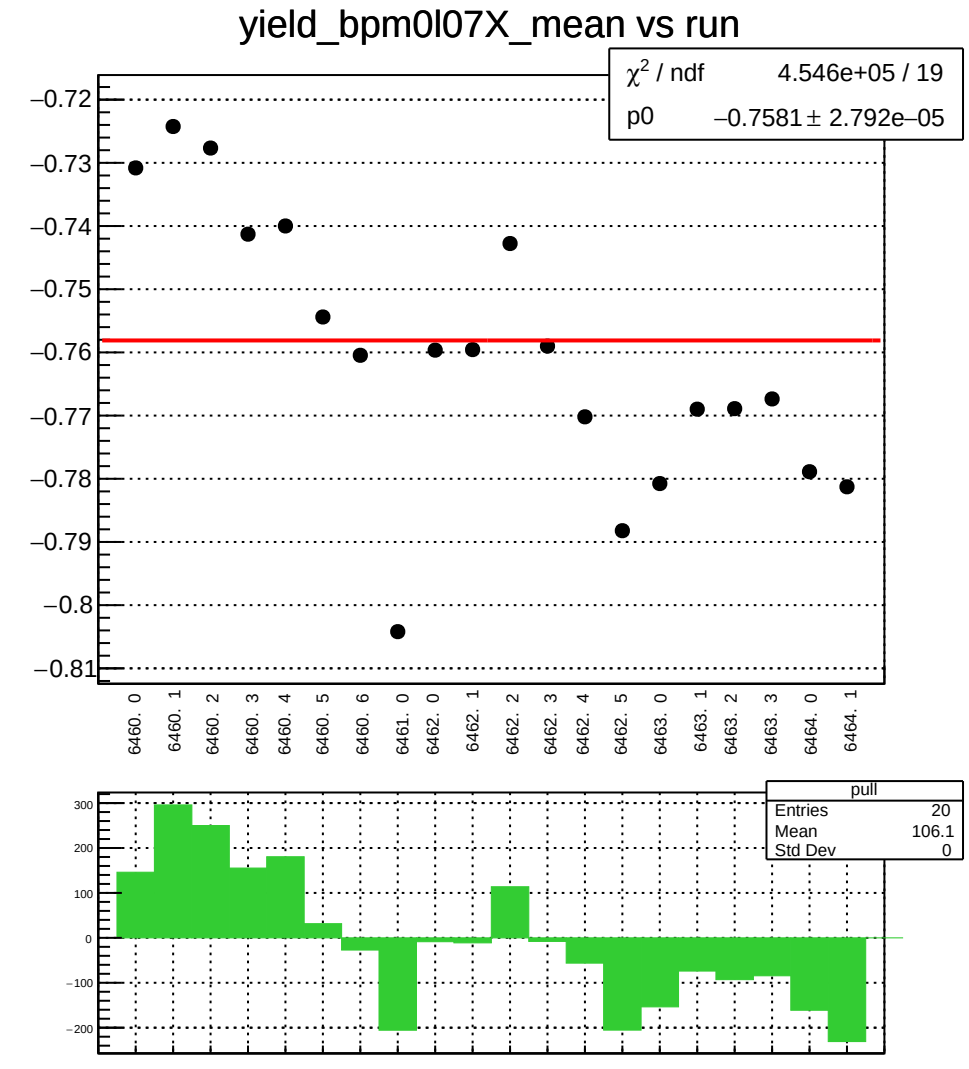

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

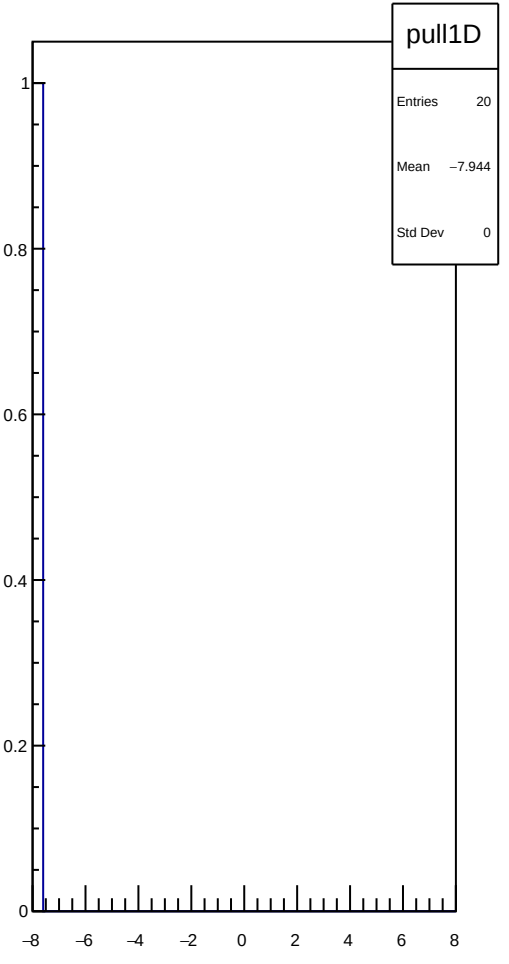

yield_bpm0l06X_rms vs run
χ² / ndf 1.645e+04 / 19
p0 0.007104 ± 1.139e−05
0.016
0.014
0.012
0.01
0.008
0.006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

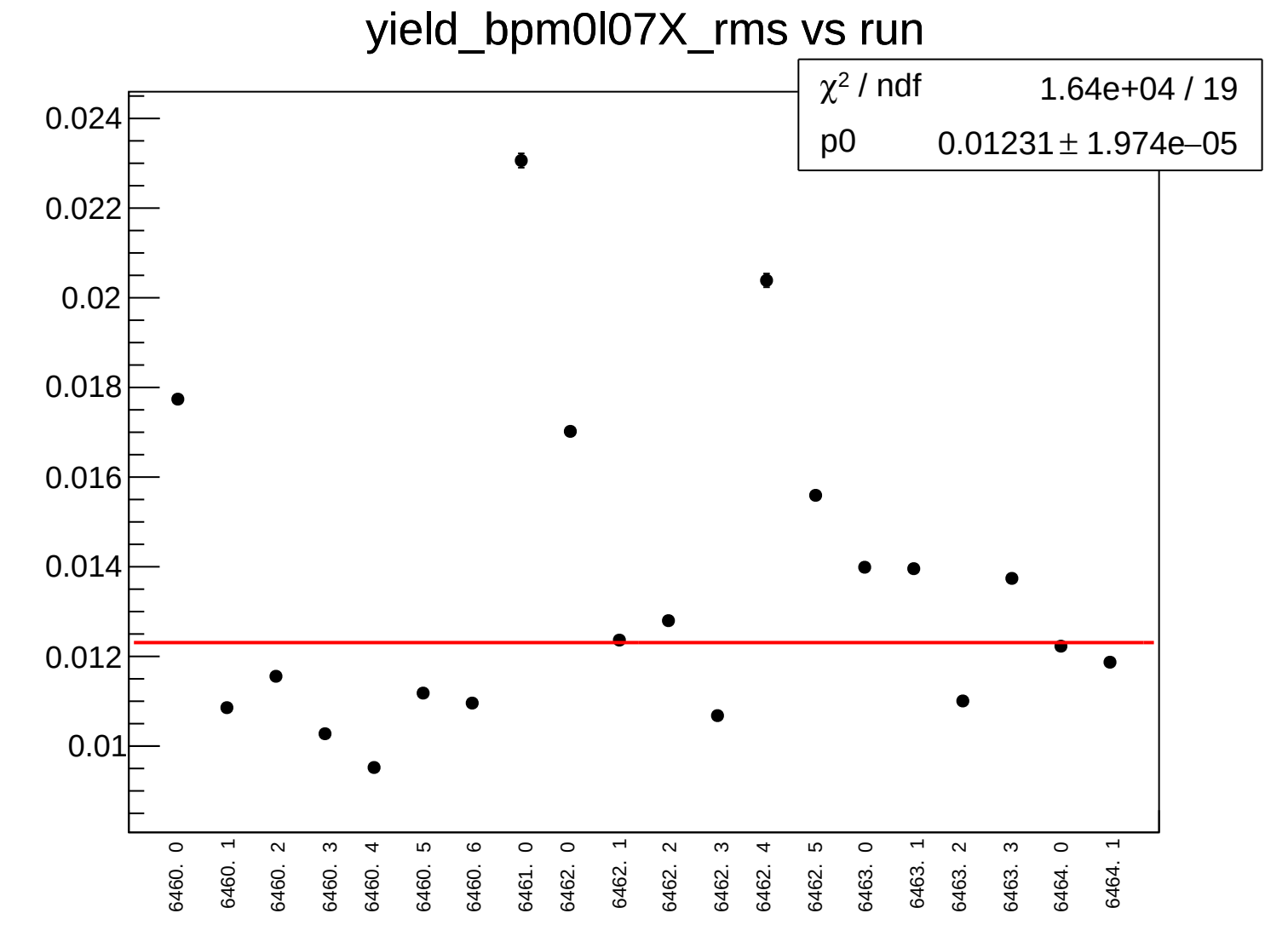

yield_bpm0l06Y_mean vs run
χ² / ndf 4.4e+05 / 19
p0 −1.26 ± 5.792e−06
−1.254
−1.256
−1.258
−1.26
−1.262
−1.264
−1.266
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −43.32
Std Dev 0
100
0
−100
−200
−300

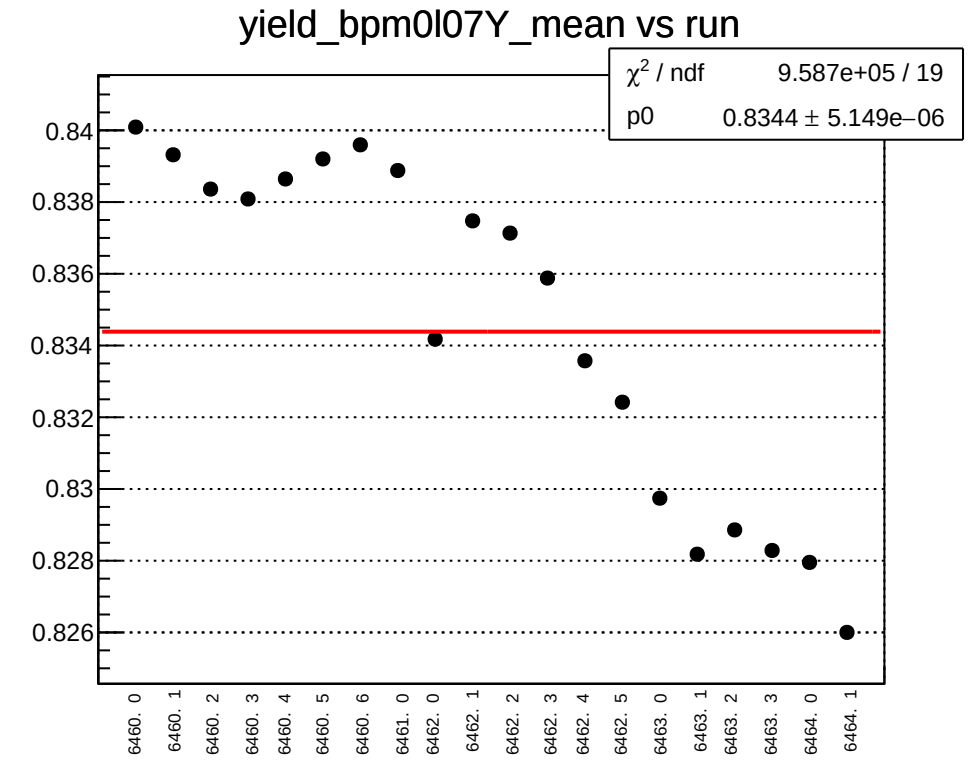

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

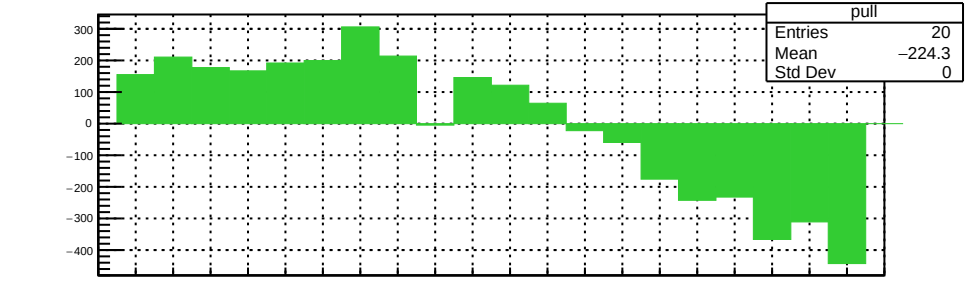

yield_bpm0l06Y_rms vs run
χ² / ndf 1.34e+04 / 19
p0 0.002564 ± 4.095e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

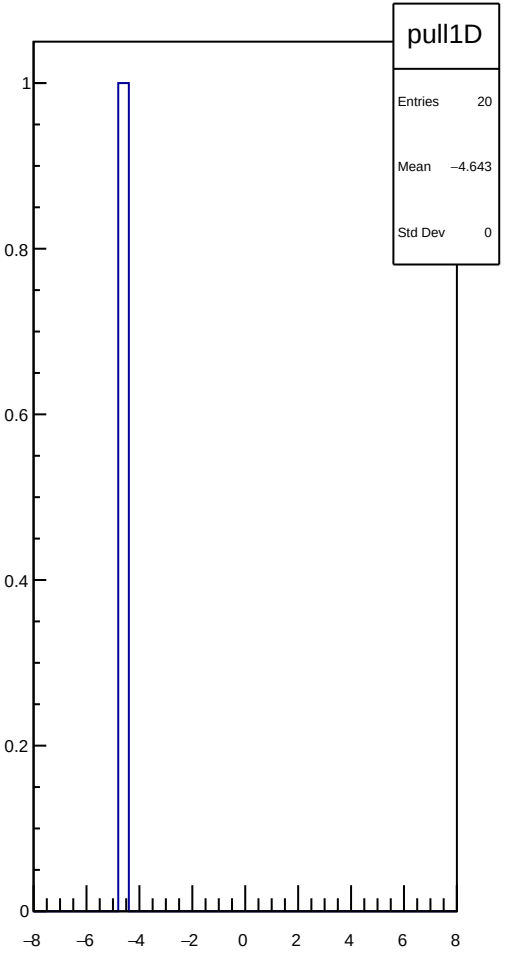

yield_bpm0l07X_mean vs run
χ² / ndf 4.546e+05 / 19
p0 −0.7581 ± 2.792e−05
−0.72
−0.73
−0.74
−0.75
−0.76
−0.77
−0.78
−0.79
−0.8
−0.81
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 106.1
Std Dev 0
300
200
100
0
−100
−200

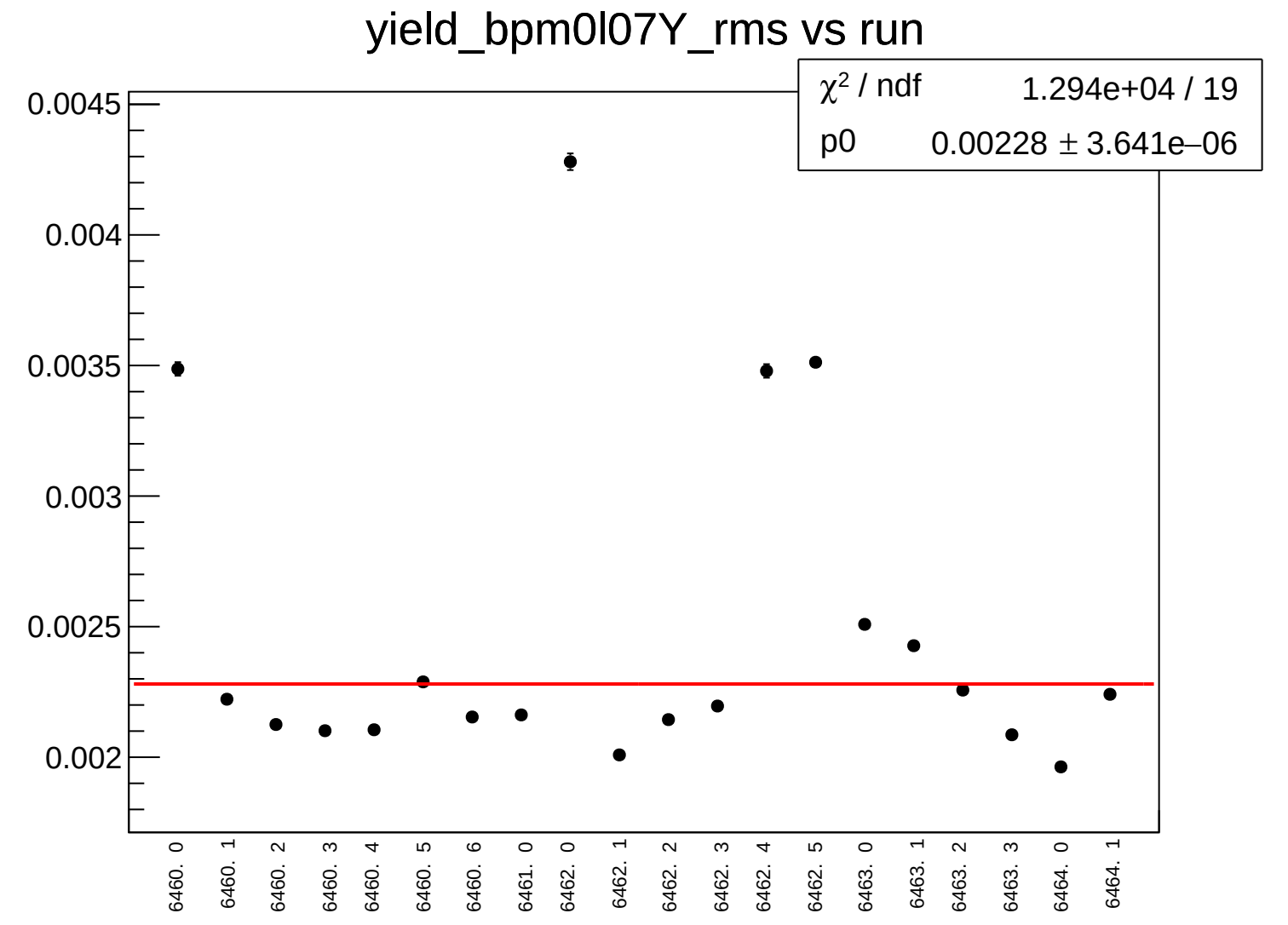

pull1D
Entries 20
Mean −7.944
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

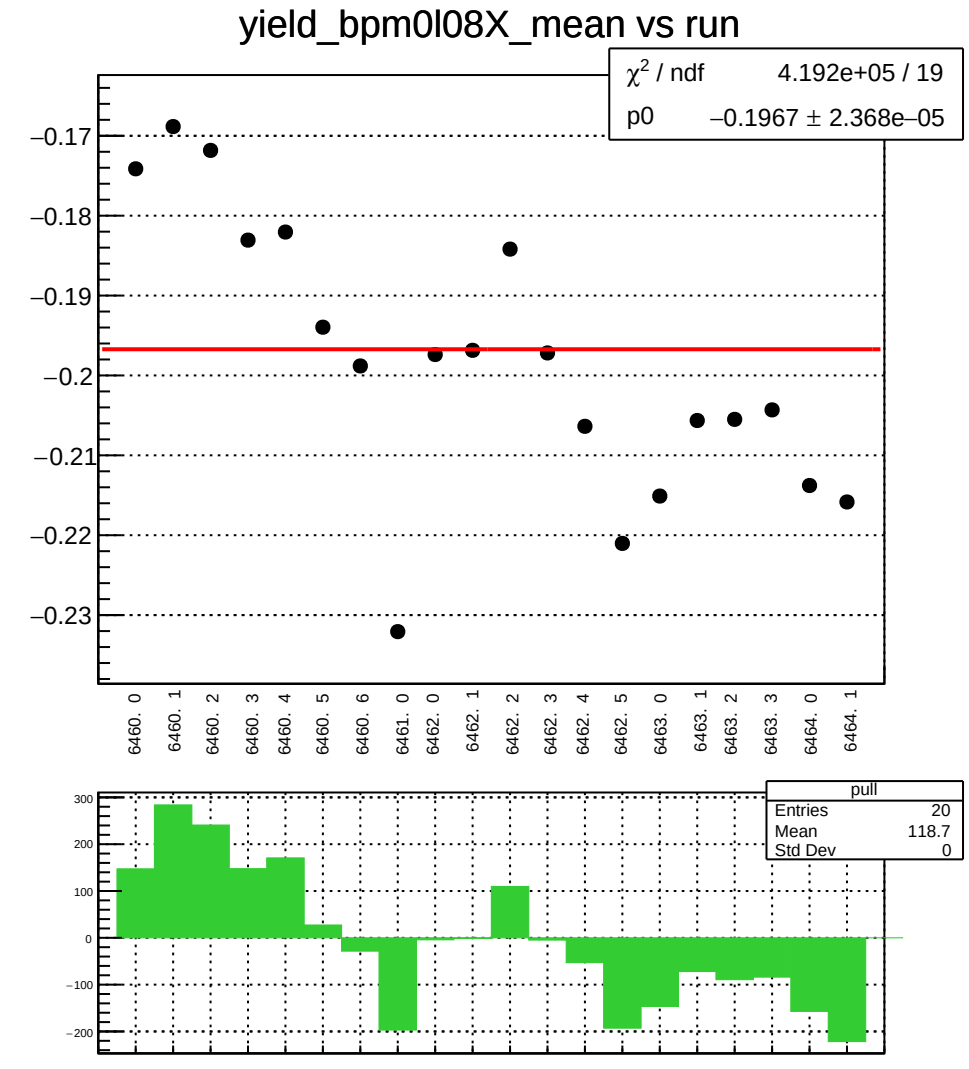

yield_bpm0l07X_rms vs run
χ² / ndf 1.64e+04 / 19
p0 0.01231 ± 1.974e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

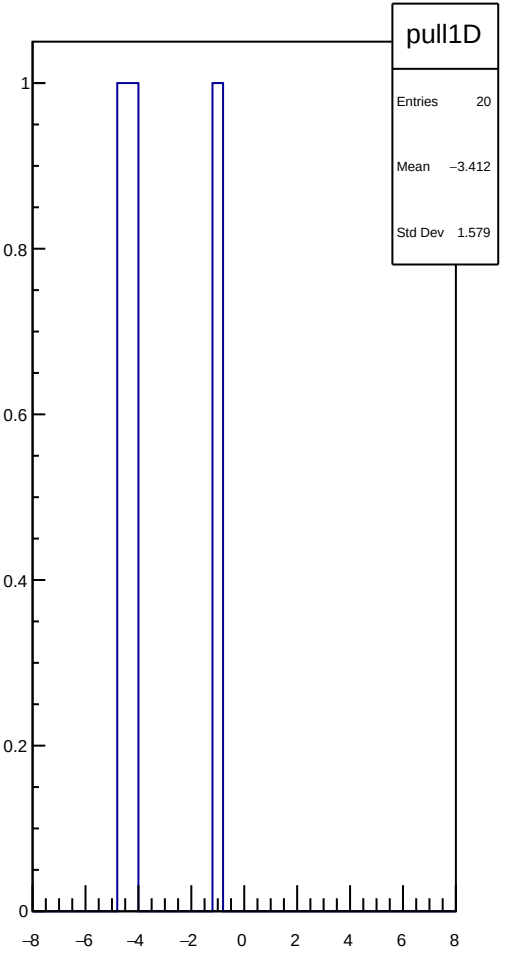

yield_bpm0l07Y_mean vs run
χ² / ndf 9.587e+05 / 19
p0 0.8344 ± 5.149e−06
0.84
0.838
0.836
0.834
0.832
0.83
0.828
0.826
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

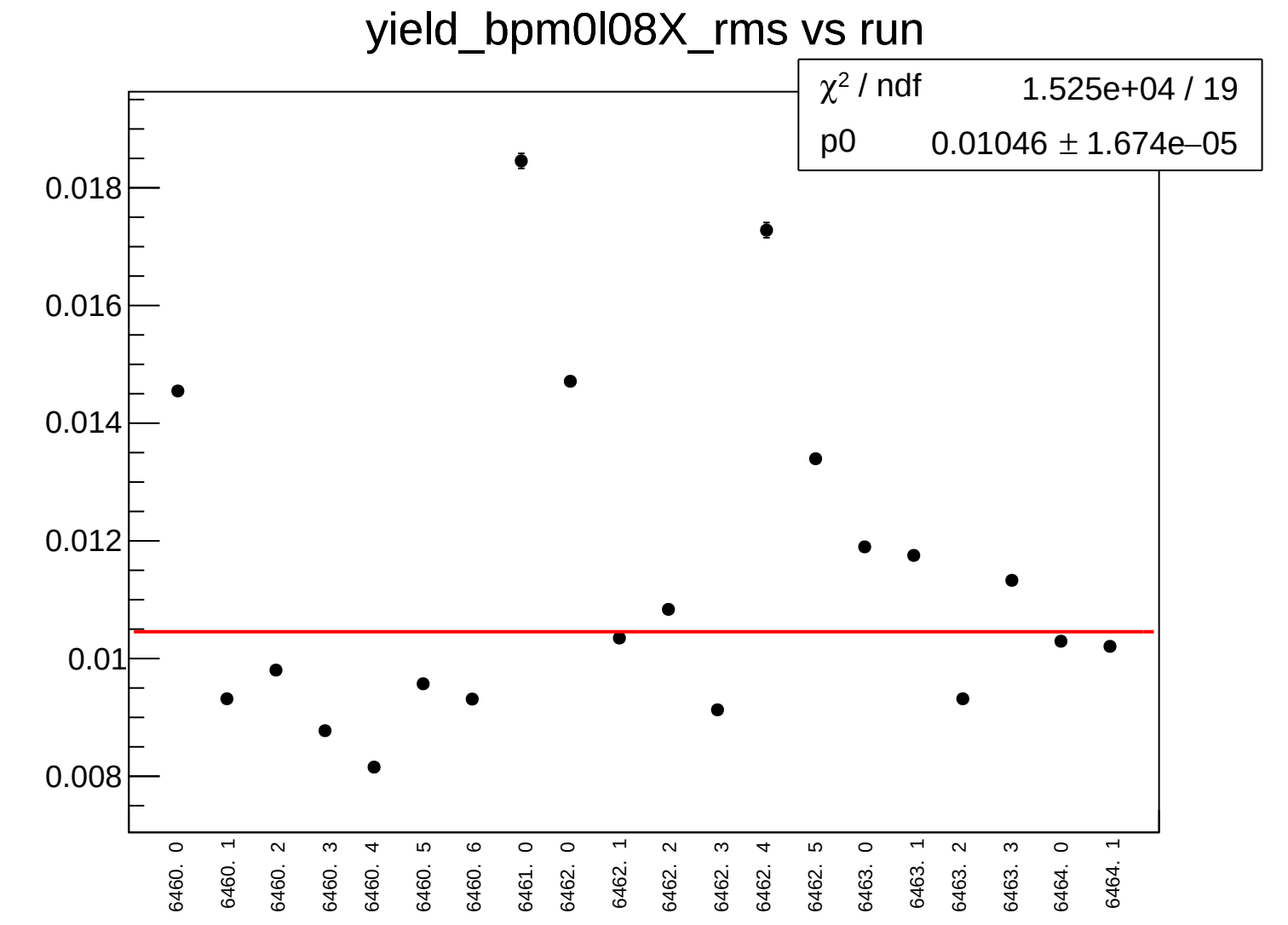

pull
Entries 20
Mean −224.3
Std Dev 0
300
200
100
0
−100
−200
−300
−400

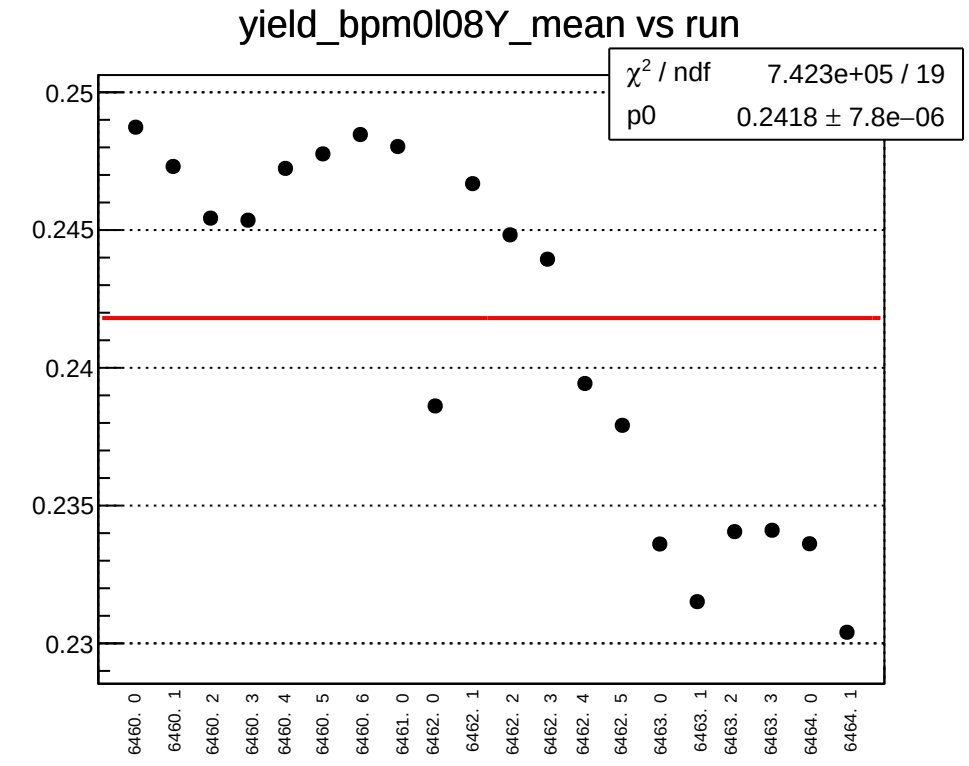

pull1D
Entries 20
Mean −4.643
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

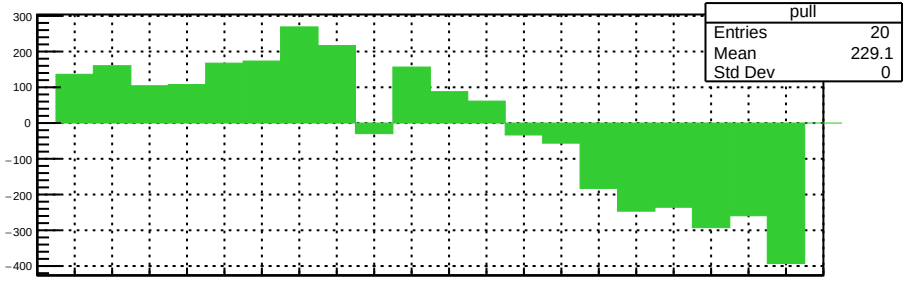

yield_bpm0l07Y_rms vs run
χ² / ndf 1.294e+04 / 19
p0 0.00228 ± 3.641e–06
0.0045
0.004
0.0035
0.003
0.0025
0.002
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

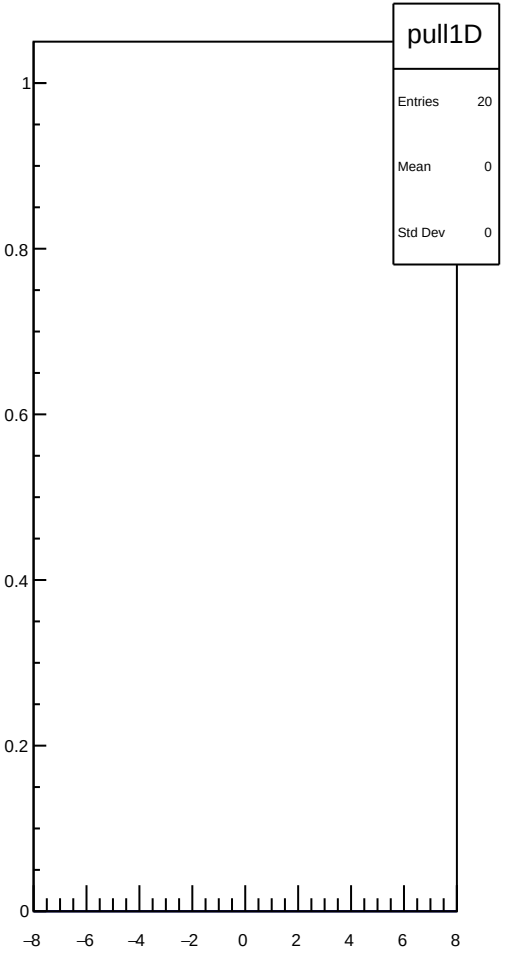

yield_bpm0l08X_mean vs run
χ² / ndf 4.192e+05 / 19
p0 −0.1967 ± 2.368e−05
−0.17
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 118.7
Std Dev 0
300
200
100
0
−100
−200

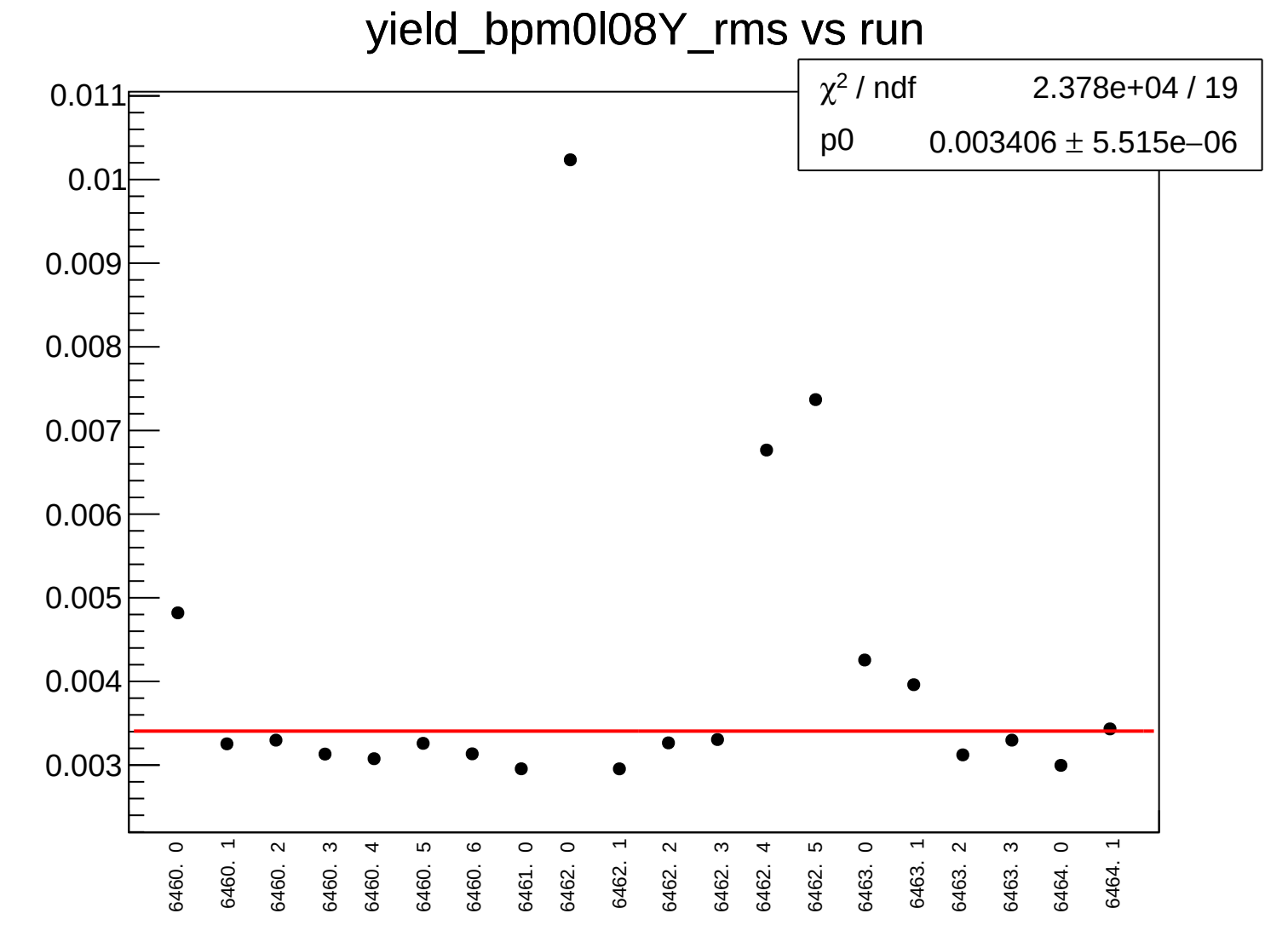

pull1D
Entries 20
Mean −3.412
Std Dev 1.579
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

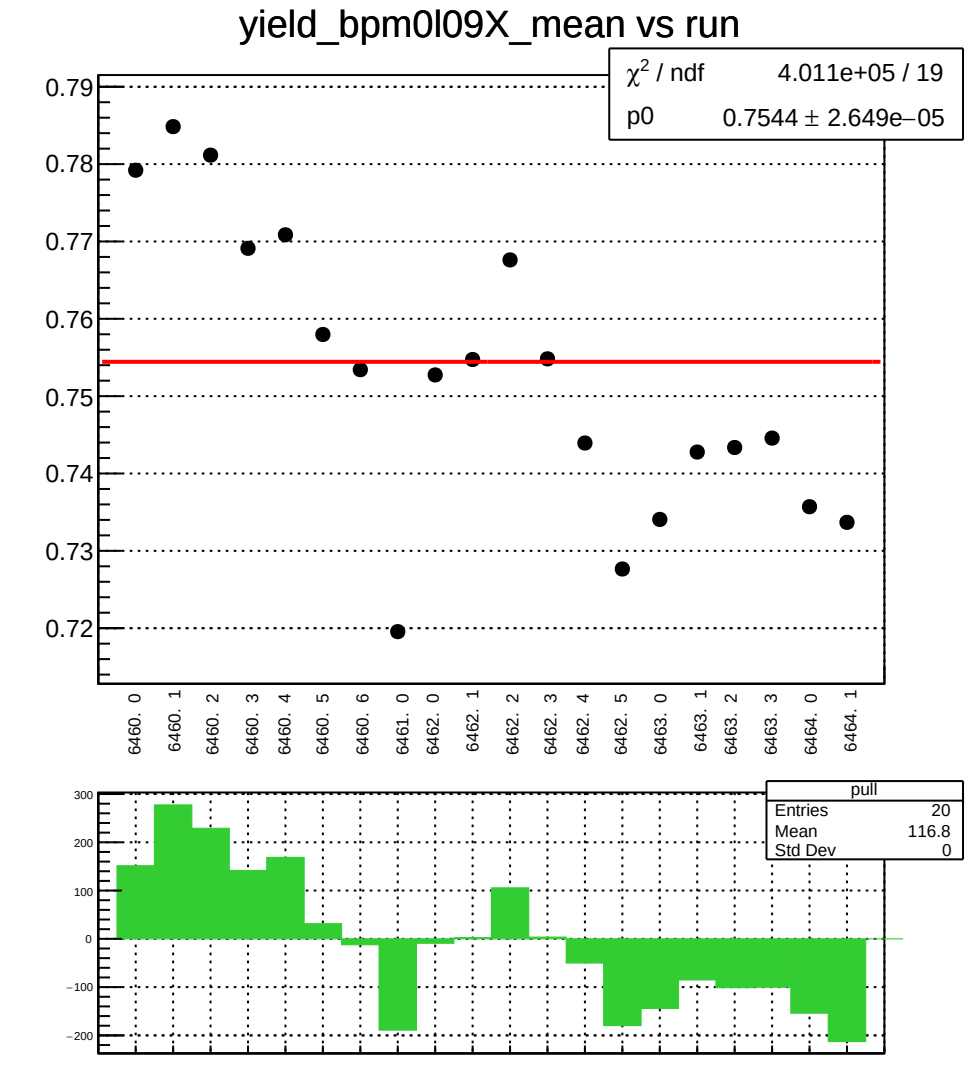

yield_bpm0l08X_rms vs run
χ² / ndf 1.525e+04 / 19
p0 0.01046 ± 1.674e–05
0.018
0.016
0.014
0.012
0.01
0.008
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

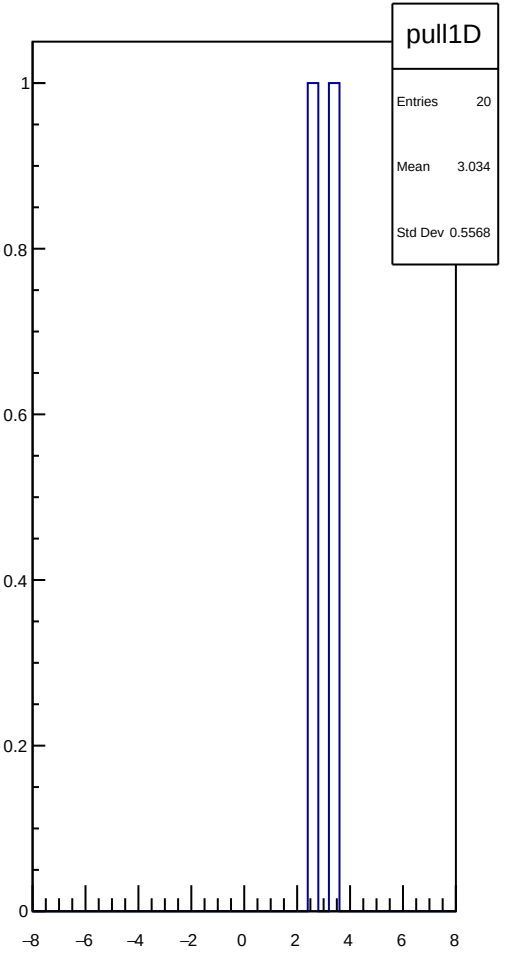

yield_bpm0l08Y_mean vs run
χ² / ndf 7.423e+05 / 19
p0 0.2418 ± 7.8e−06
0.25
0.245
0.24
0.235
0.23
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

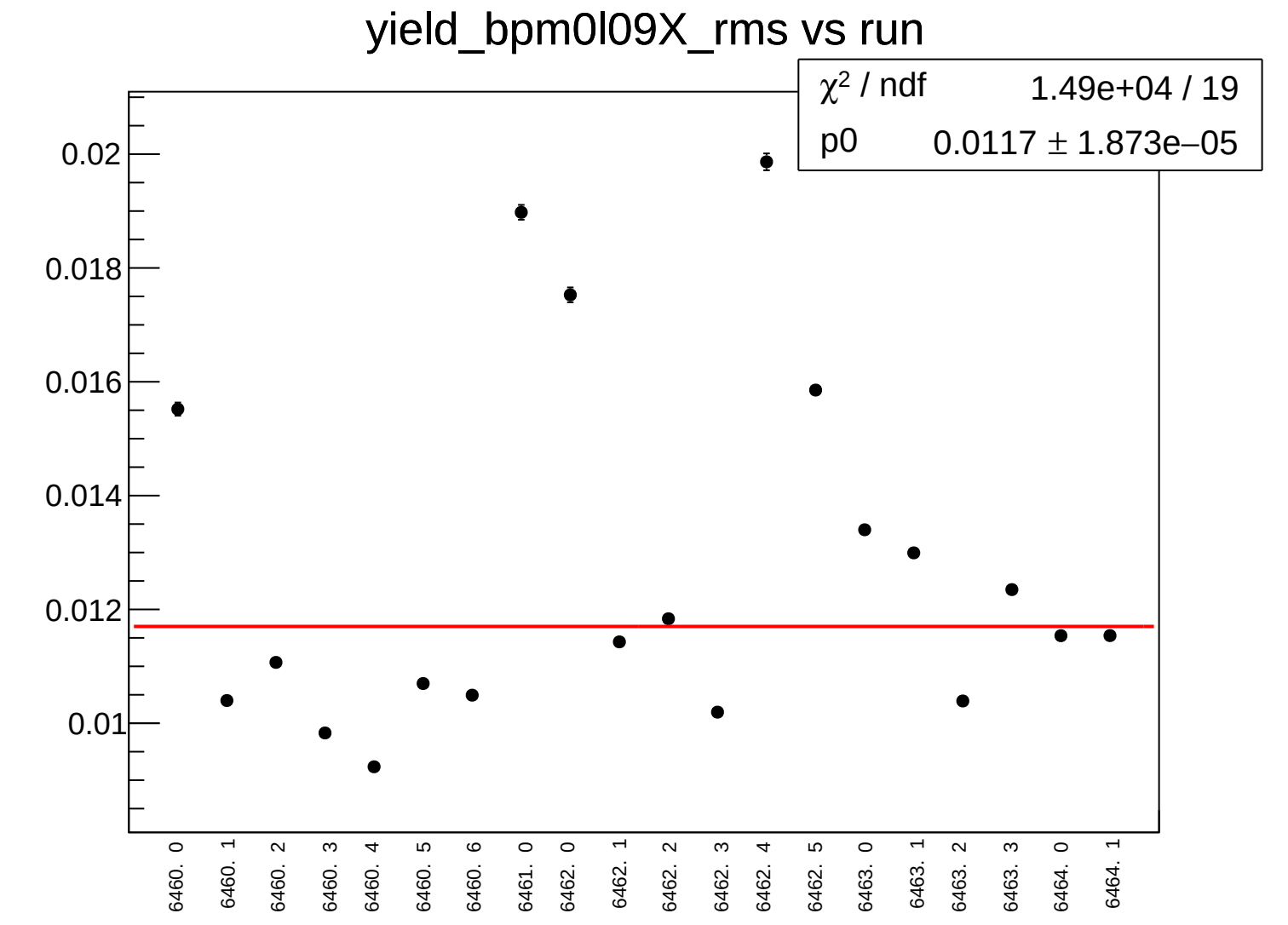

pull
Entries 20
Mean 229.1
Std Dev 0
300
200
100
0
−100
−200
−300
−400

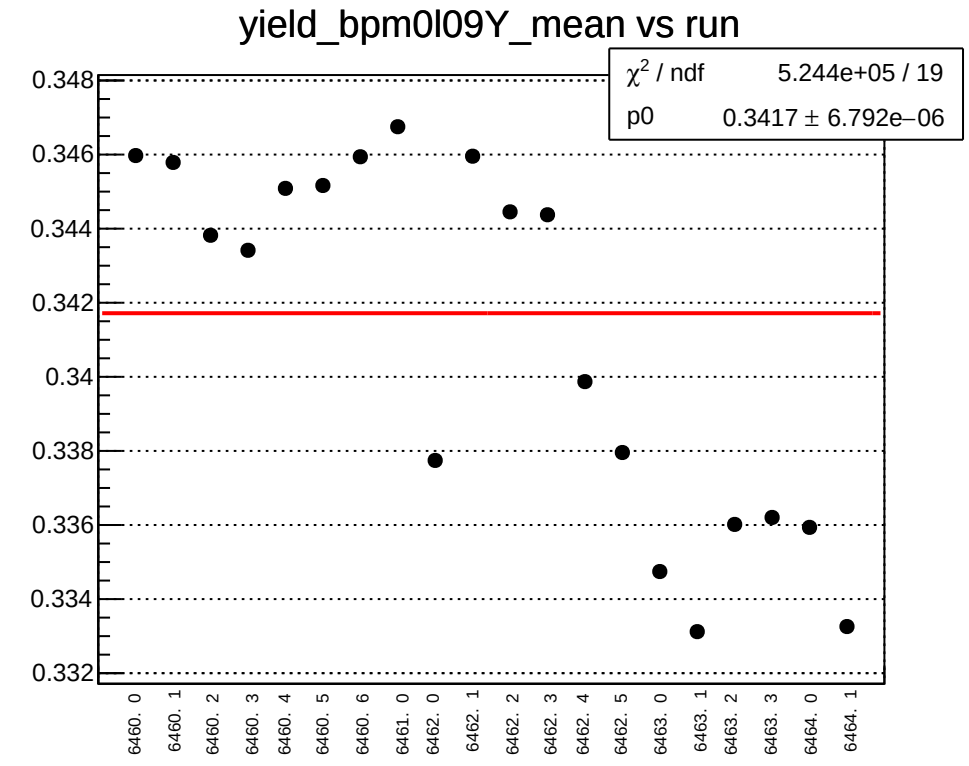

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

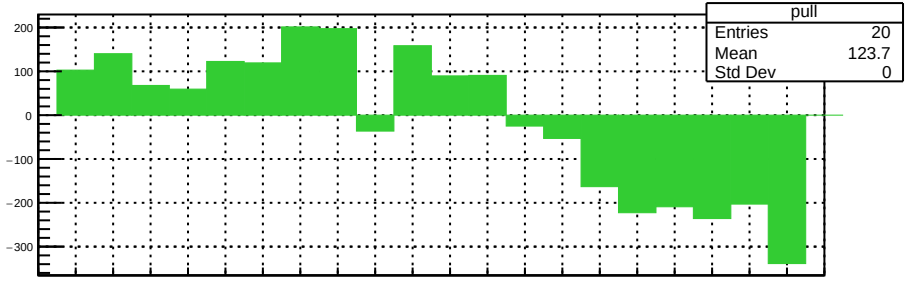

yield_bpm0l08Y_rms vs run
χ² / ndf 2.378e+04 / 19
p0 0.003406 ± 5.515e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

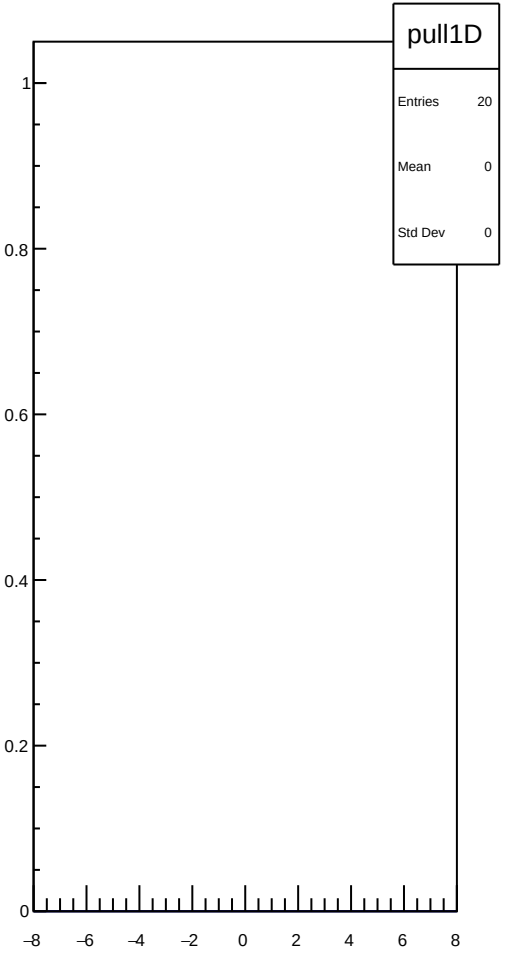

yield_bpm0l09X_mean vs run
χ² / ndf 4.011e+05 / 19
p0 0.7544 ± 2.649e−05
0.79
0.78
0.77
0.76
0.75
0.74
0.73
0.72
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 116.8
Std Dev 0
300
200
100
0
−100
−200

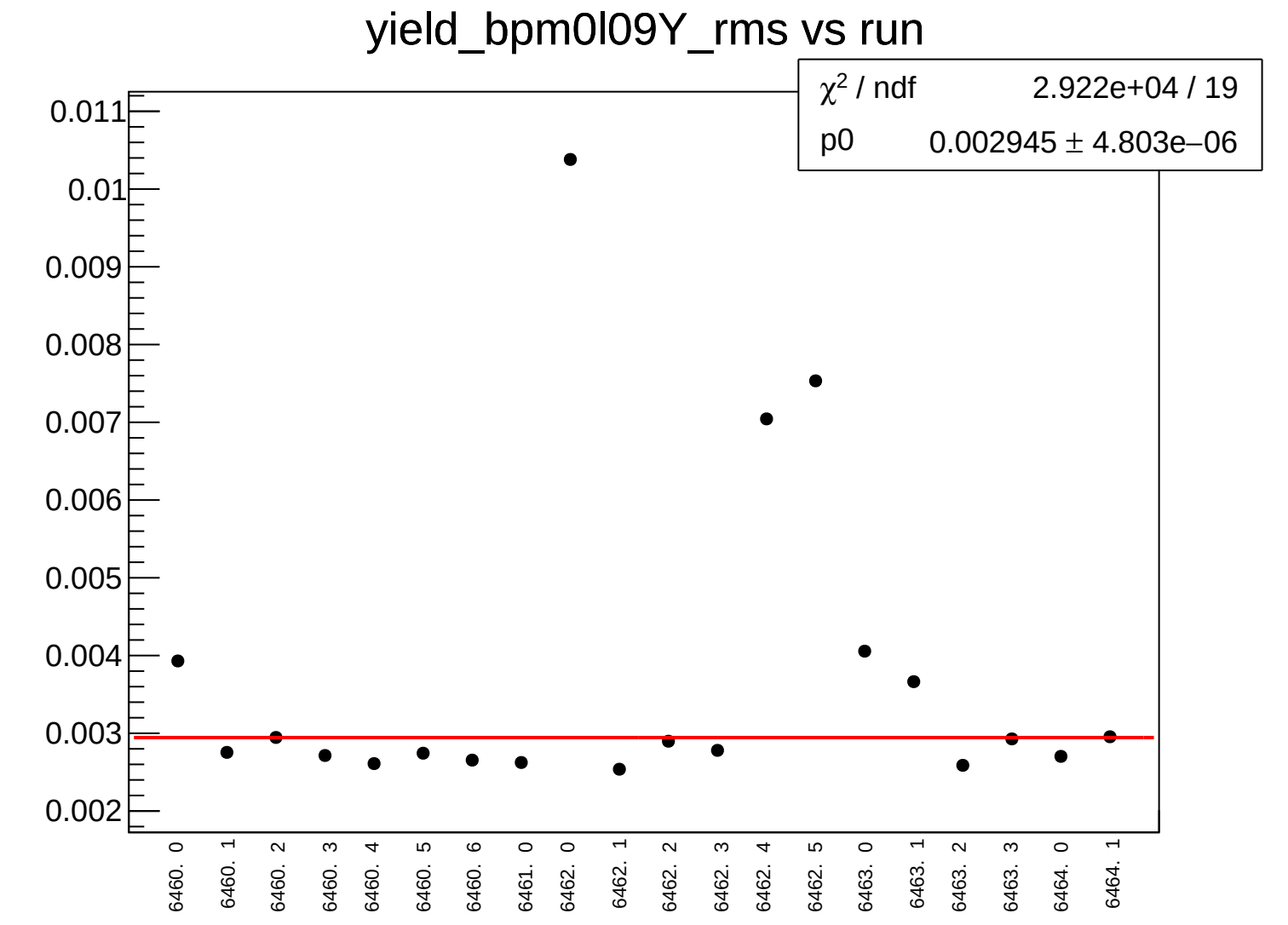

pull1D
Entries 20
Mean 3.034
Std Dev 0.5568
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

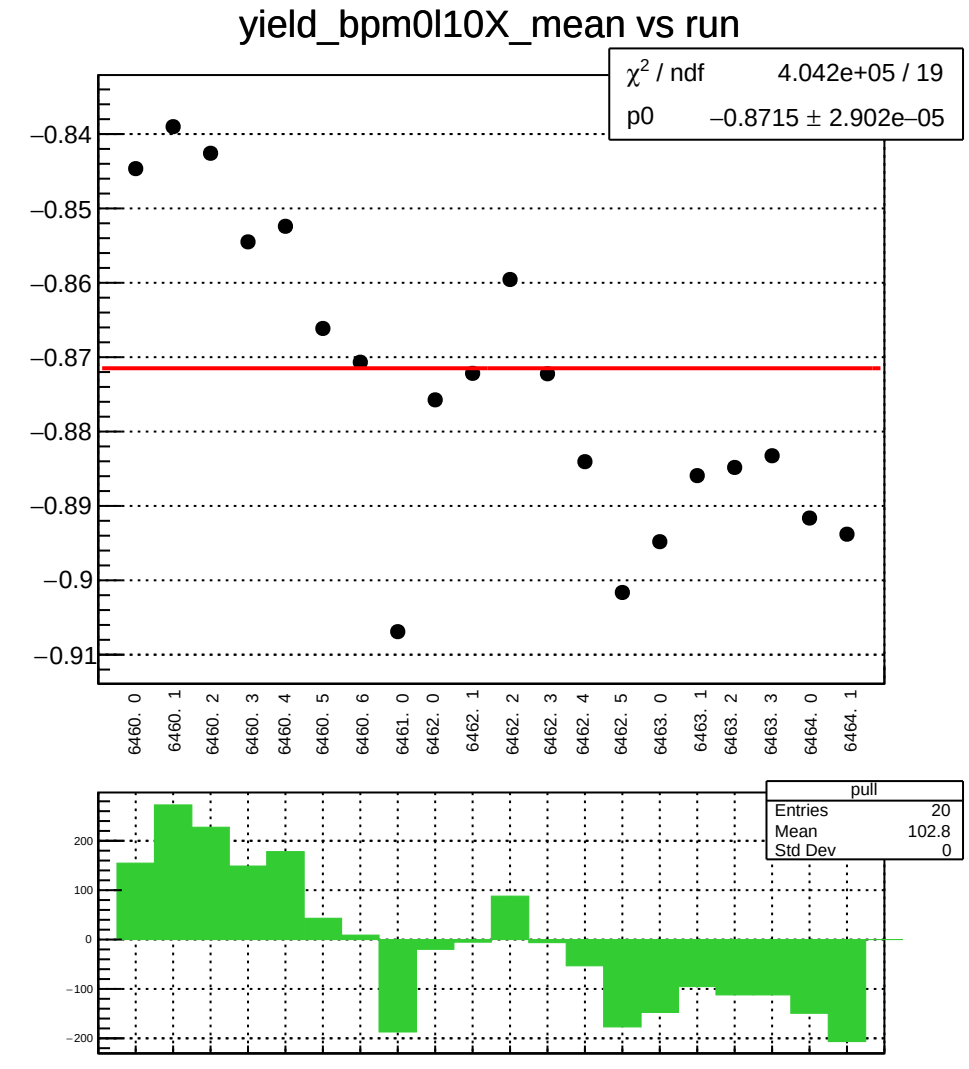

yield_bpm0l09X_rms vs run
χ² / ndf 1.49e+04 / 19
p0 0.0117 ± 1.873e−05
0.02
0.018
0.016
0.014
0.012
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

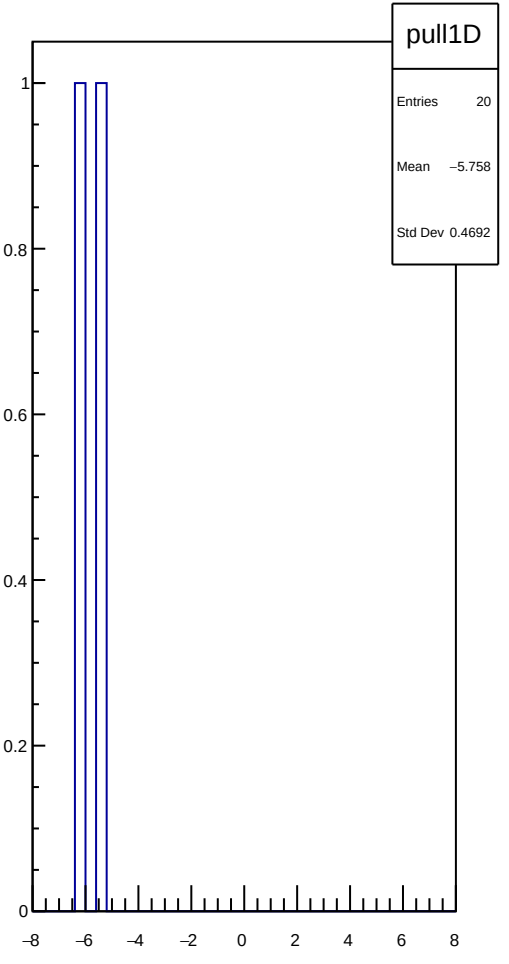

yield_bpm0l09Y_mean vs run
χ² / ndf 5.244e+05 / 19
p0 0.3417 ± 6.792e−06
0.348
0.346
0.344
0.342
0.34
0.338
0.336
0.334
0.332
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

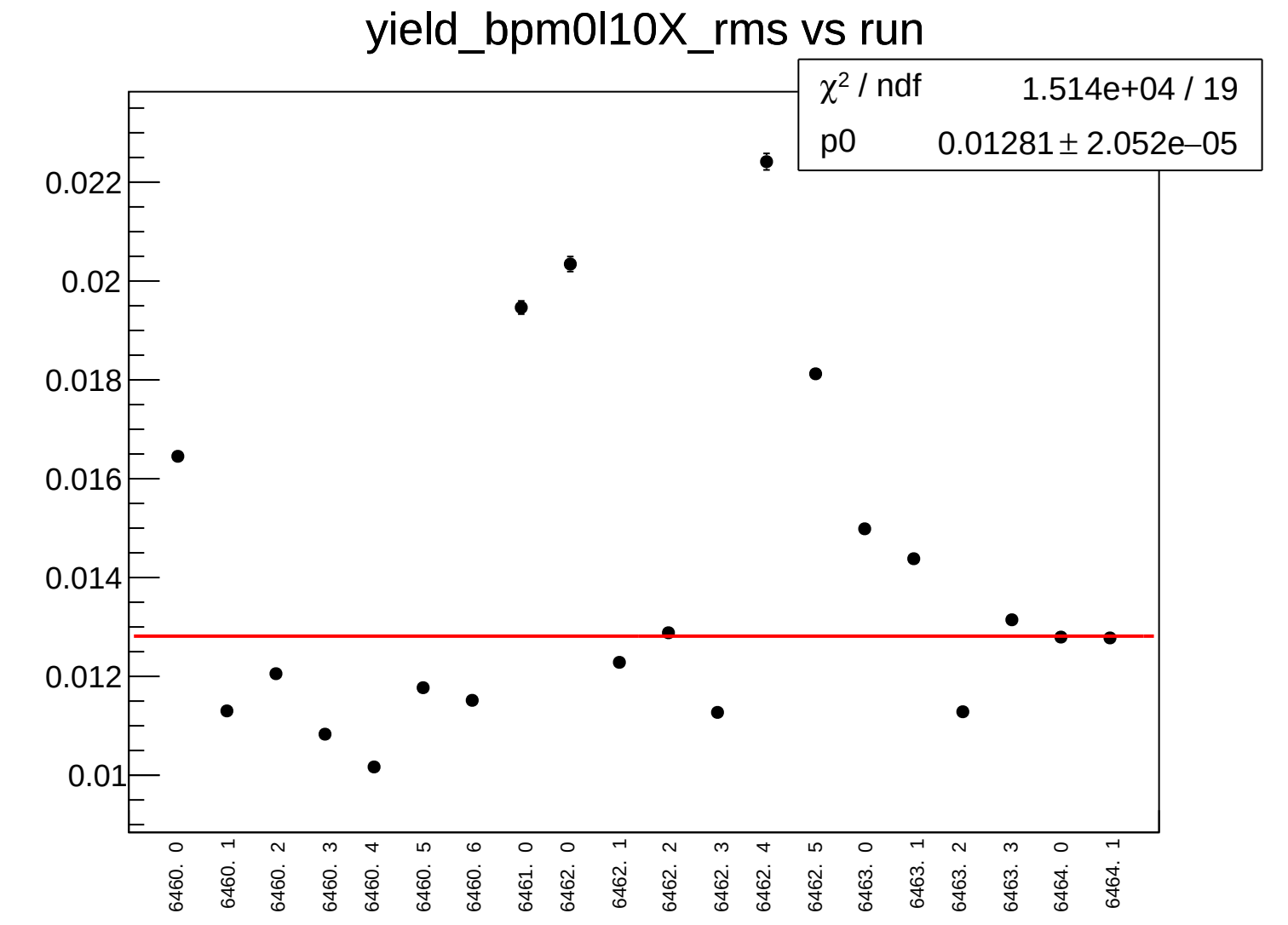

pull
Entries 20
Mean 123.7
Std Dev 0
200
100
0
−100
−200
−300

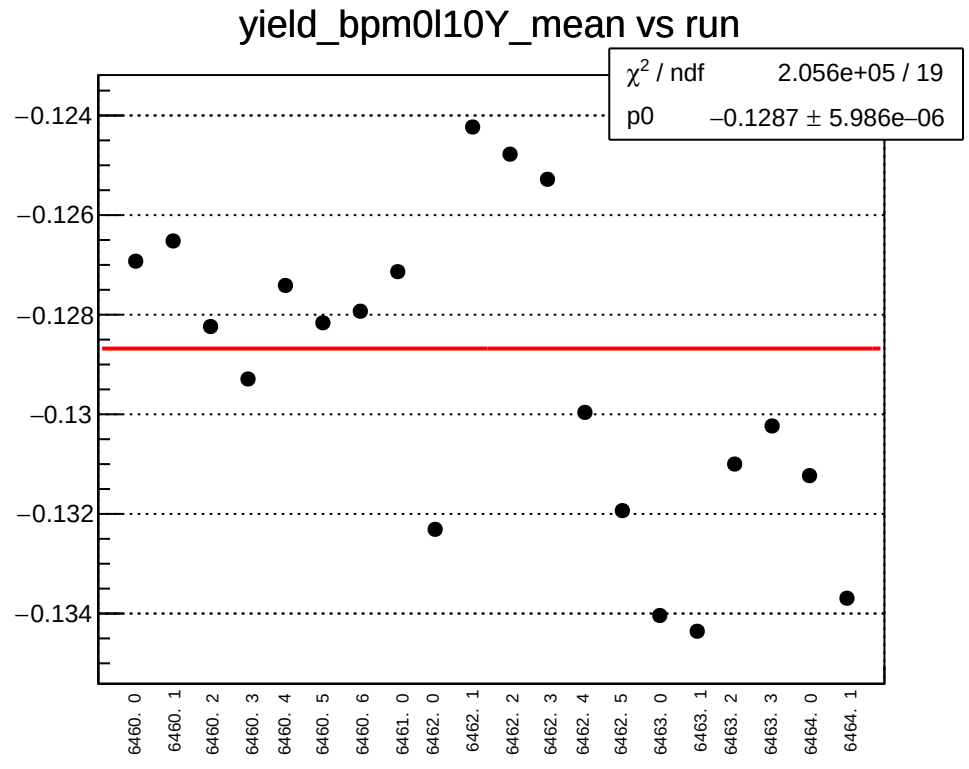

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

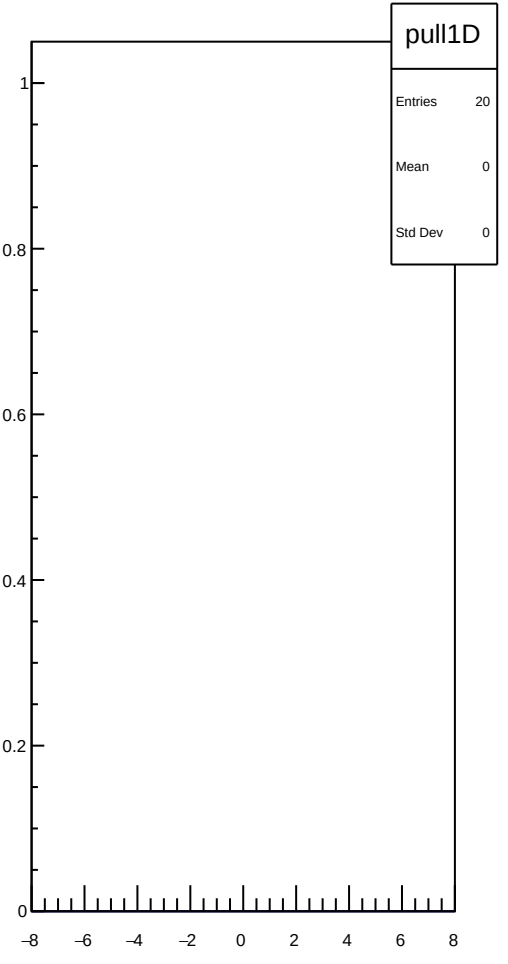

yield_bpm0l09Y_rms vs run
χ² / ndf 2.922e+04 / 19
p0 0.002945 ± 4.803e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

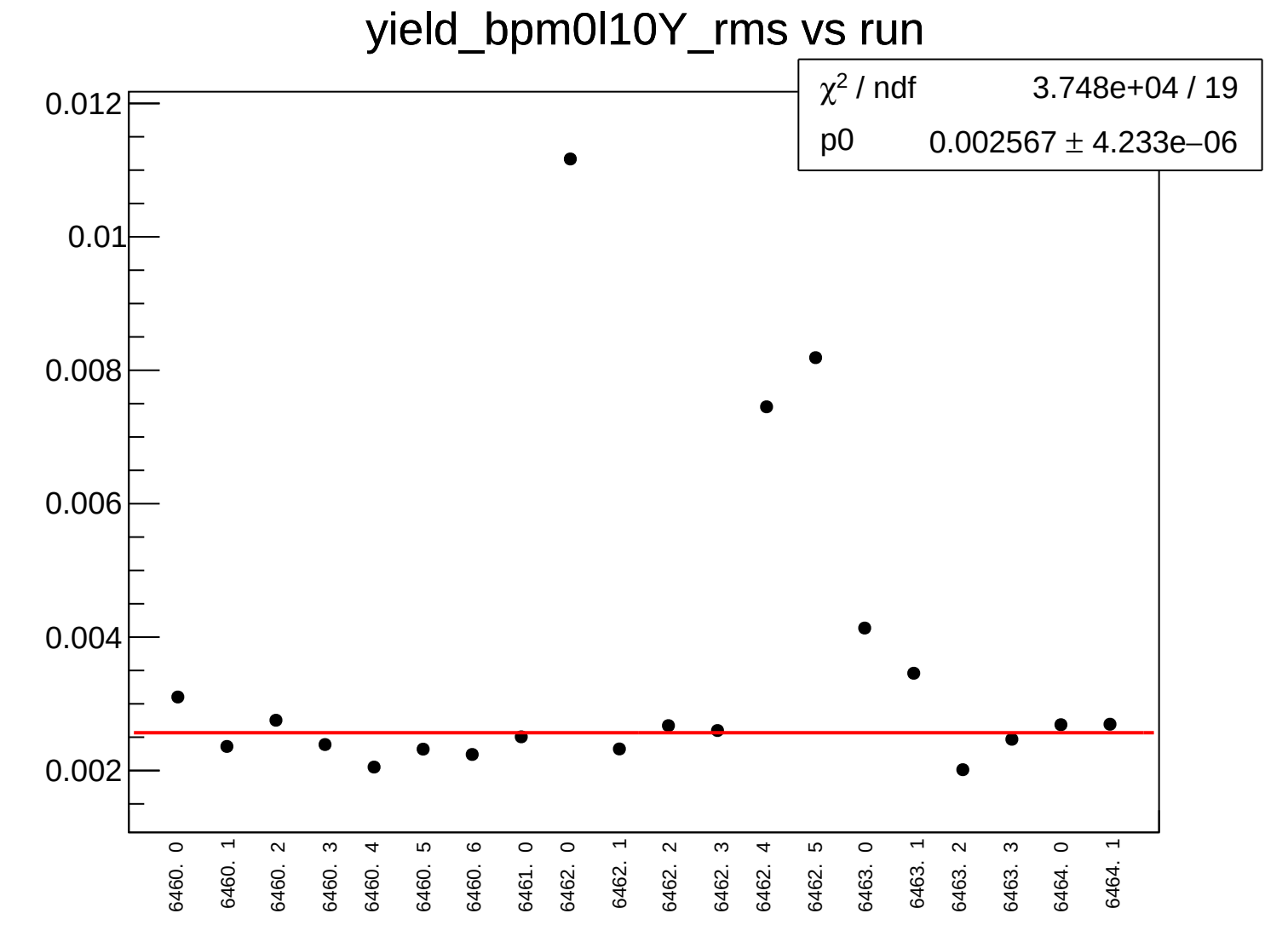

yield_bpm0l10X_mean vs run
χ² / ndf 4.042e+05 / 19
p0 −0.8715 ± 2.902e−05
−0.84
−0.85
−0.86
−0.87
−0.88
−0.89
−0.9
−0.91
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 102.8
Std Dev 0
200
100
0
−100
−200

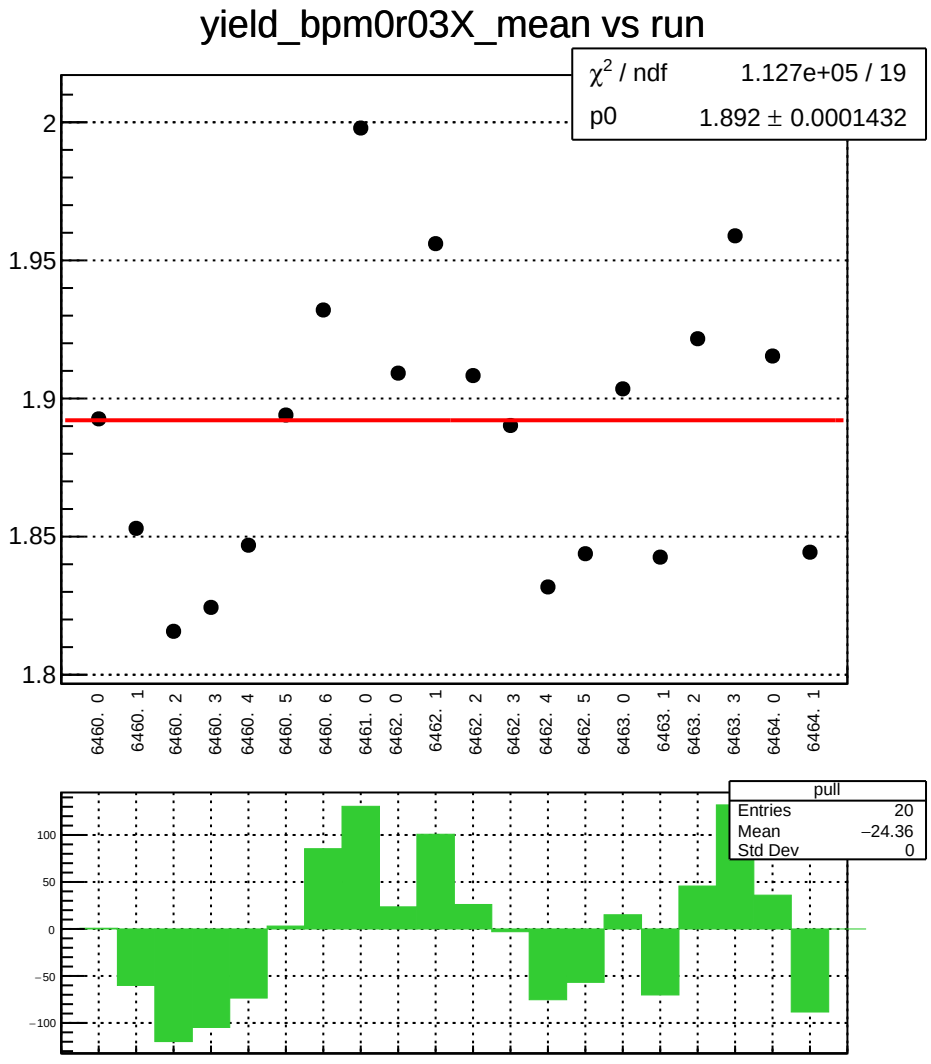

pull1D
Entries 20
Mean −5.758
Std Dev 0.4692
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

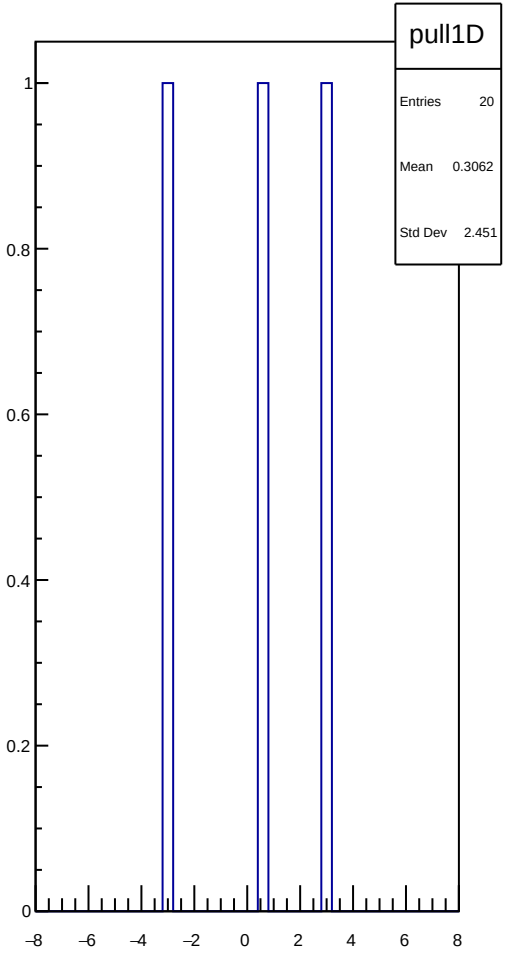

yield_bpm0l10X_rms vs run
χ² / ndf 1.514e+04 / 19
p0 0.01281 ± 2.052e–05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

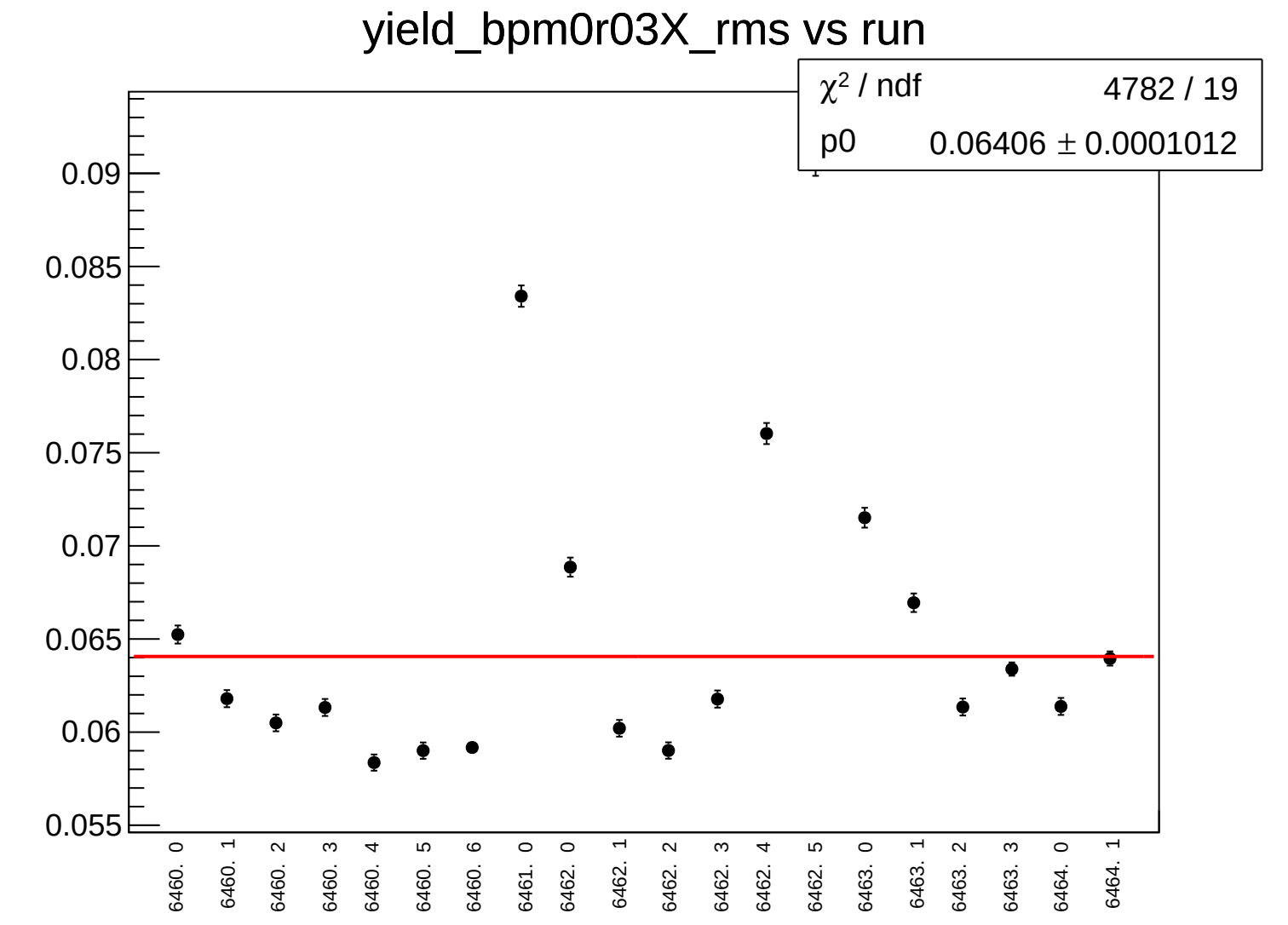

yield_bpm0l10Y_mean vs run
χ² / ndf 2.056e+05 / 19
p0 −0.1287 ± 5.986e−06
−0.124
−0.126
−0.128
−0.13
−0.132
−0.134
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 80.89
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

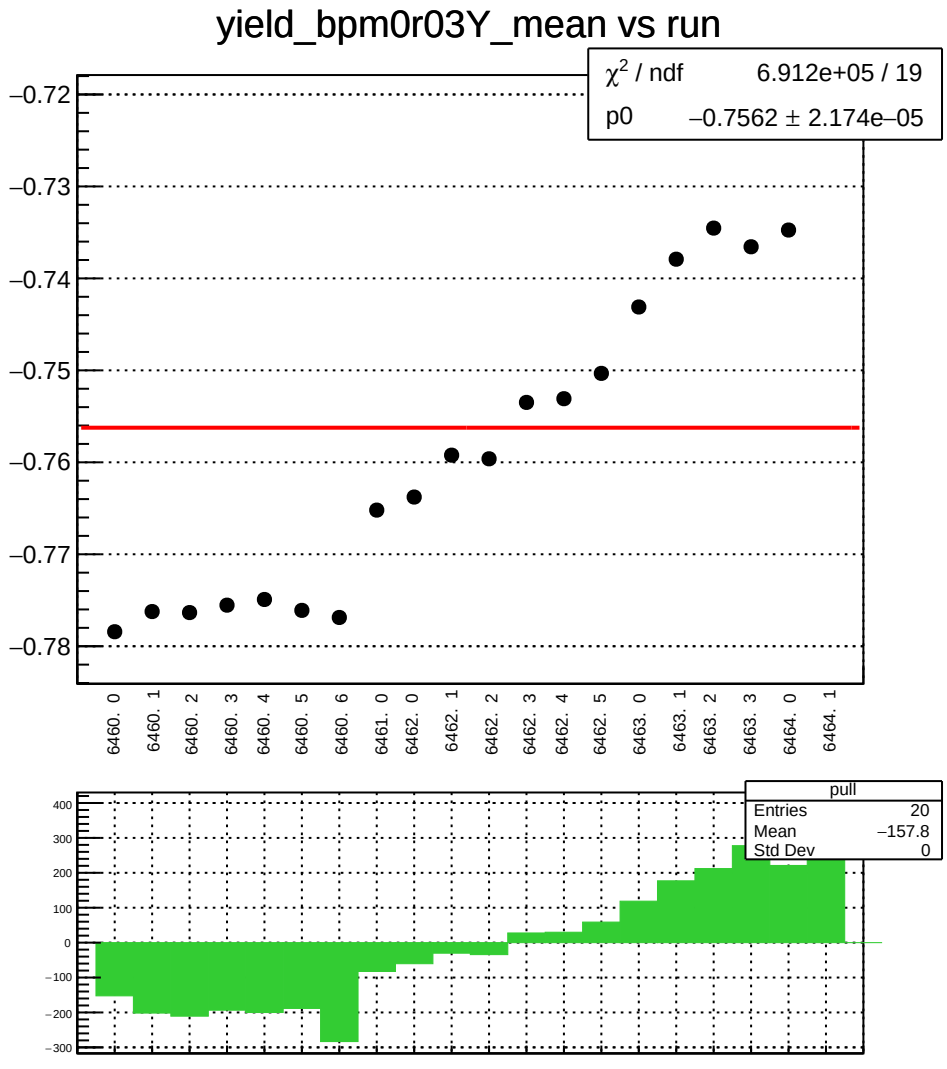

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

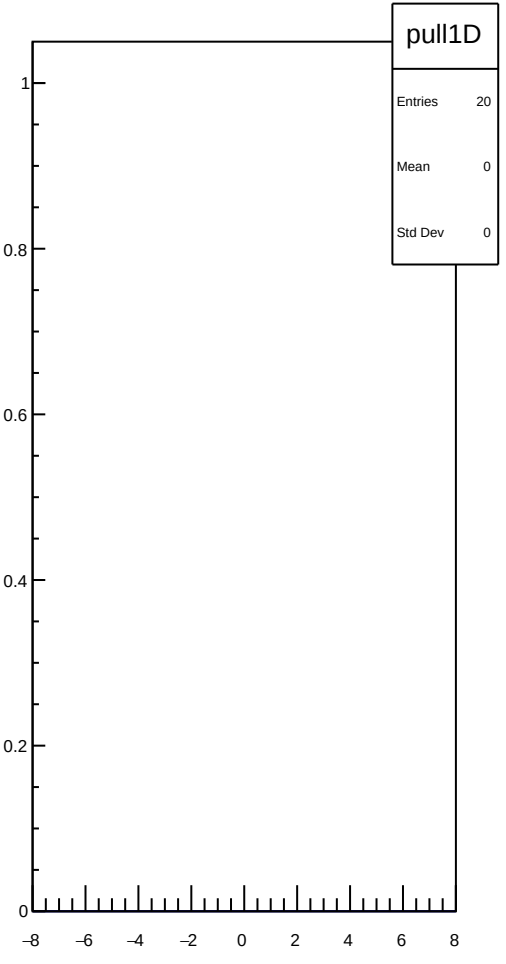

yield_bpm0l10Y_rms vs run
χ² / ndf 3.748e+04 / 19
p0 0.002567 ± 4.233e−06
0.012
0.01
0.008
0.006
0.004
0.002
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

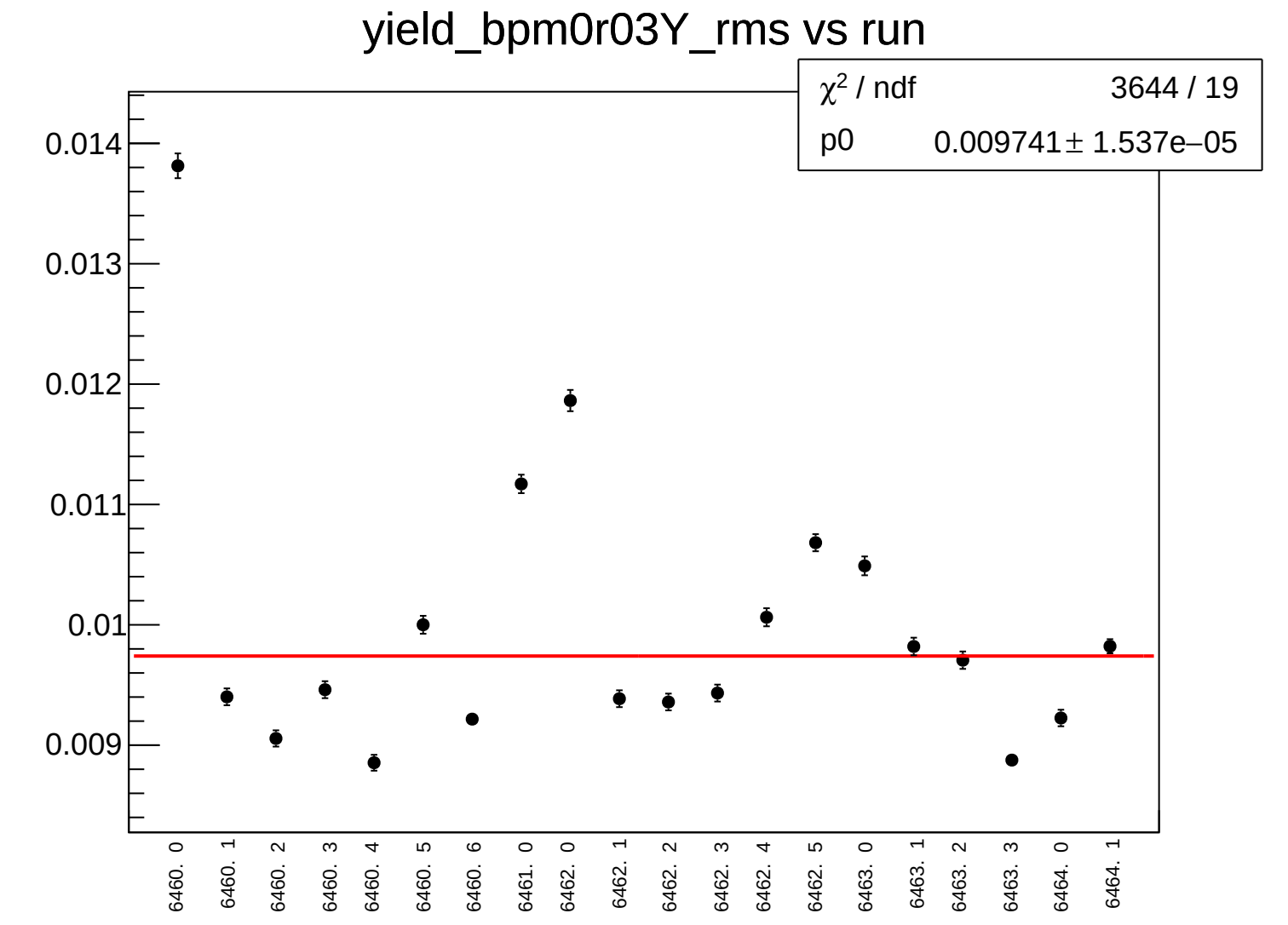

yield_bpm0r03X_mean vs run
χ² / ndf 1.127e+05 / 19
p0 1.892 ± 0.0001432
2
1.95
1.9
1.85
1.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −24.36
Std Dev 0
100
50
0
−50
−100

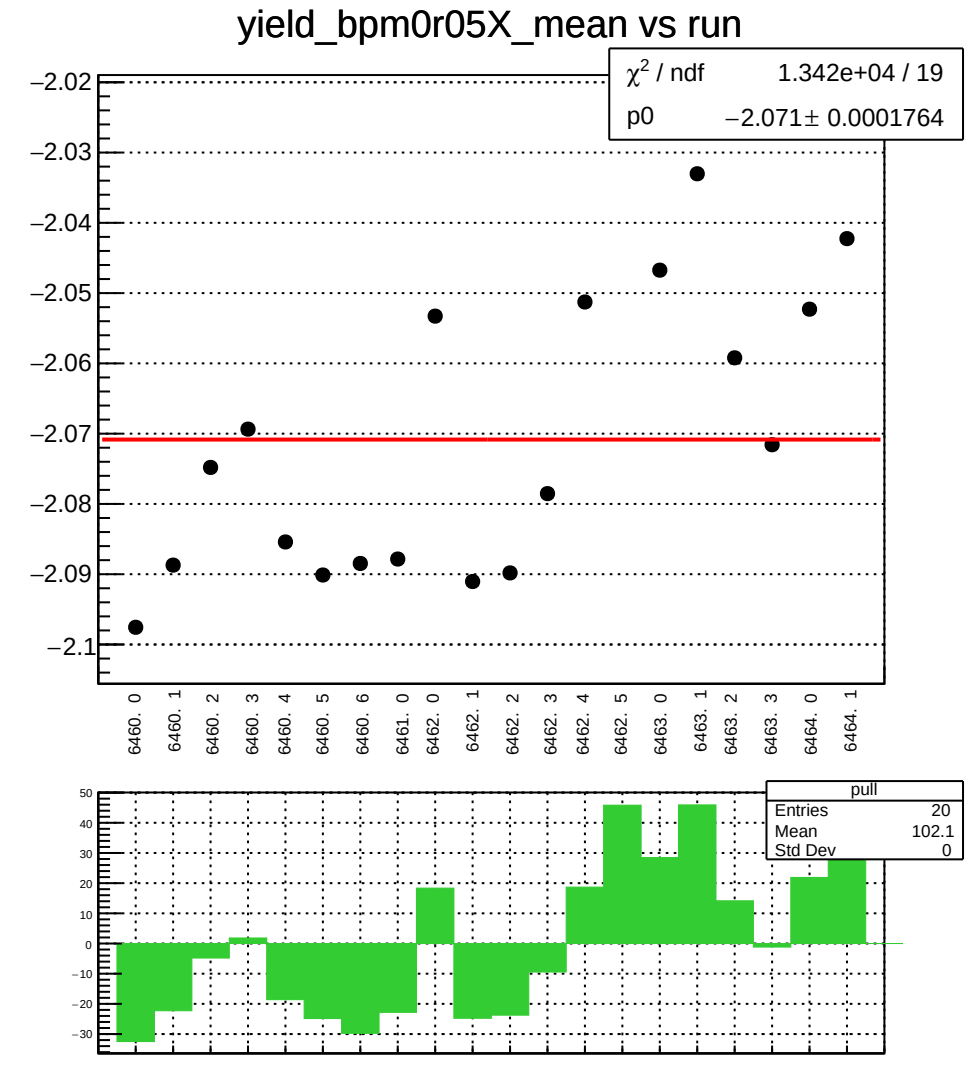

pull1D
Entries 20
Mean 0.3062
Std Dev 2.451
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

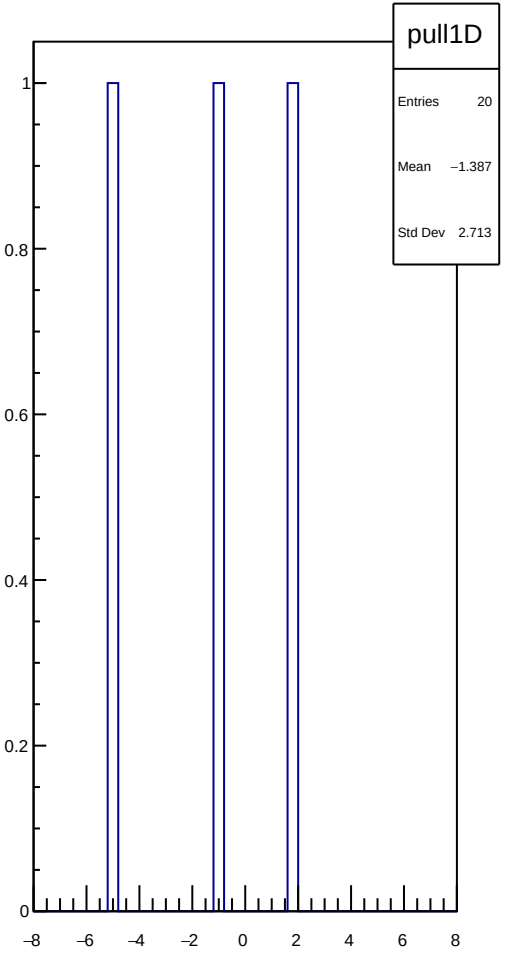

yield_bpm0r03X_rms vs run
χ² / ndf 4782 / 19
p0 0.06406 ± 0.0001012
0.09
0.085
0.08
0.075
0.07
0.065
0.06
0.055
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

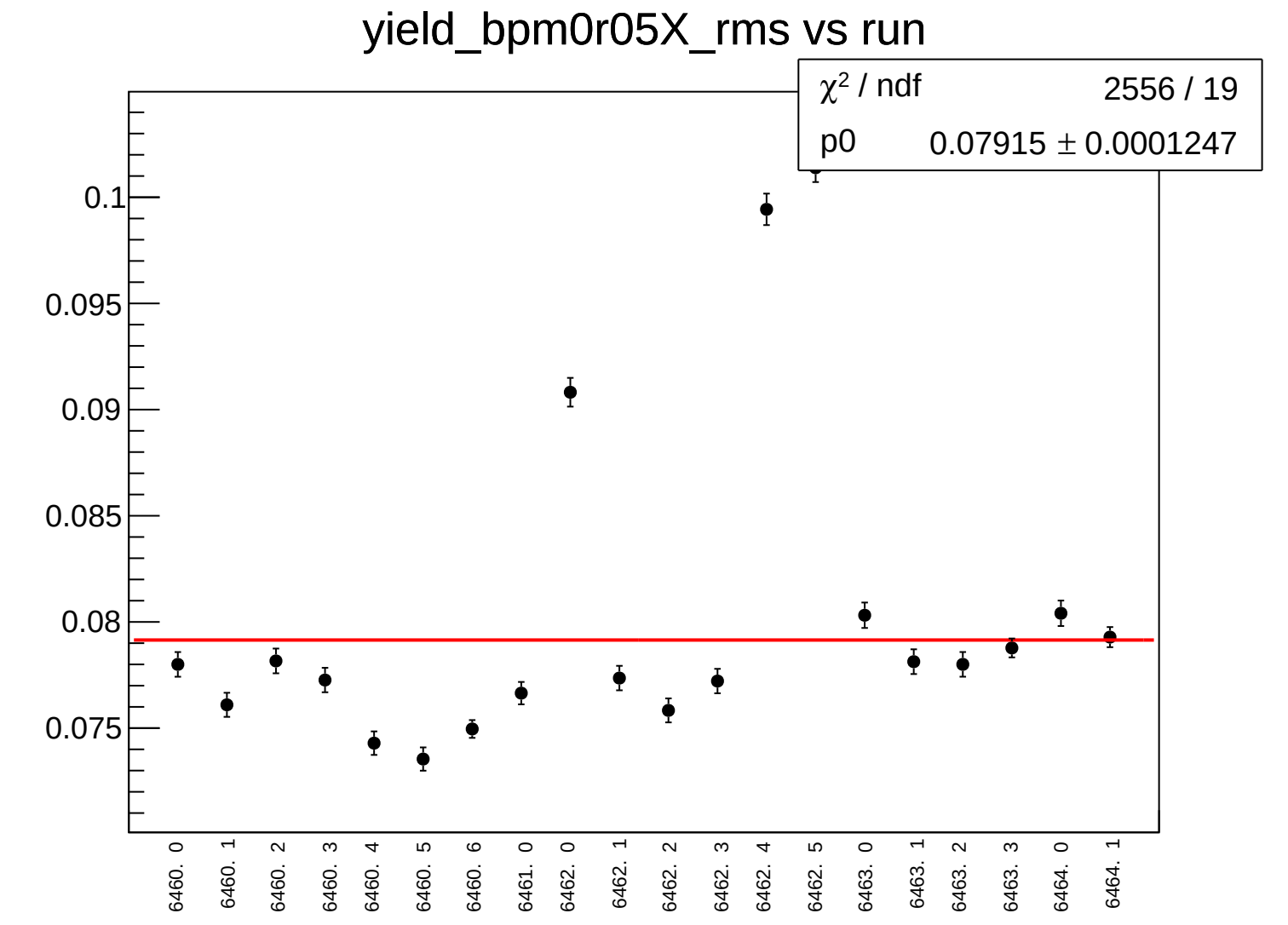

yield_bpm0r03Y_mean vs run
χ² / ndf 6.912e+05 / 19
p0 −0.7562 ± 2.174e−05
−0.72
−0.73
−0.74
−0.75
−0.76
−0.77
−0.78
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −157.8
Std Dev 0
400
300
200
100
0
−100
−200
−300

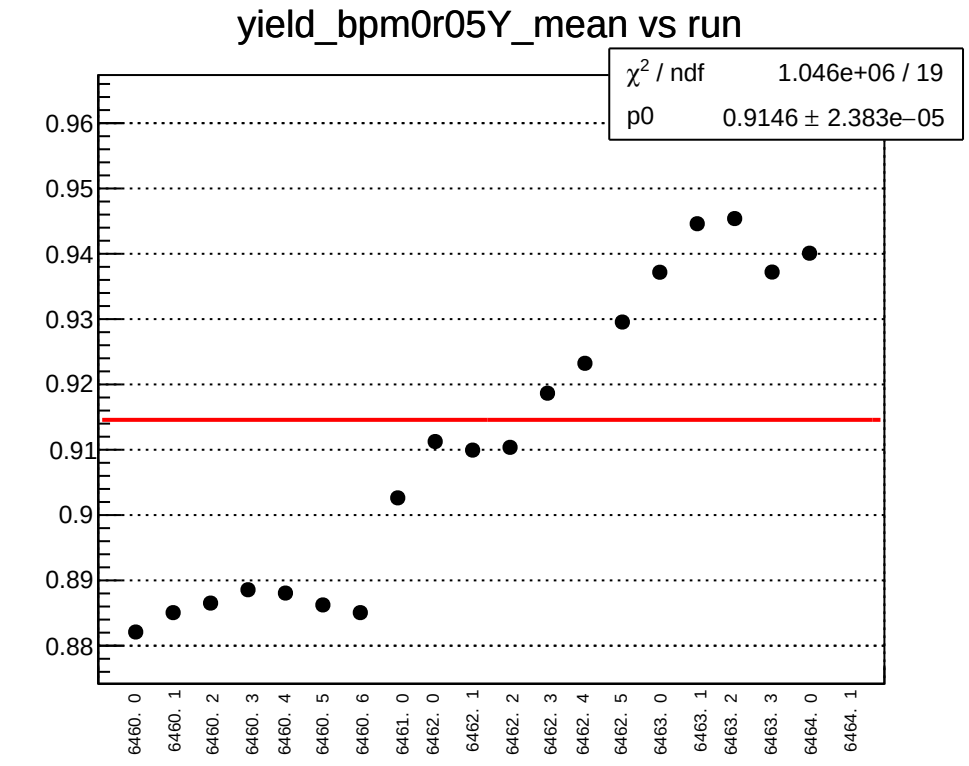

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

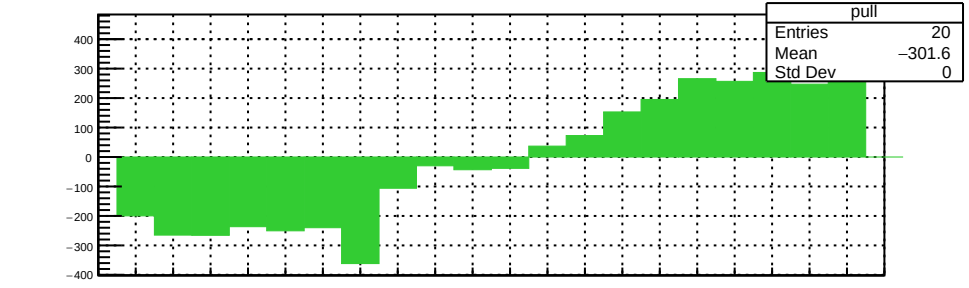

yield_bpm0r03Y_rms vs run
χ² / ndf 3644 / 19
p0 0.009741 ± 1.537e−05
0.014
0.013
0.012
0.011
0.01
0.009
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

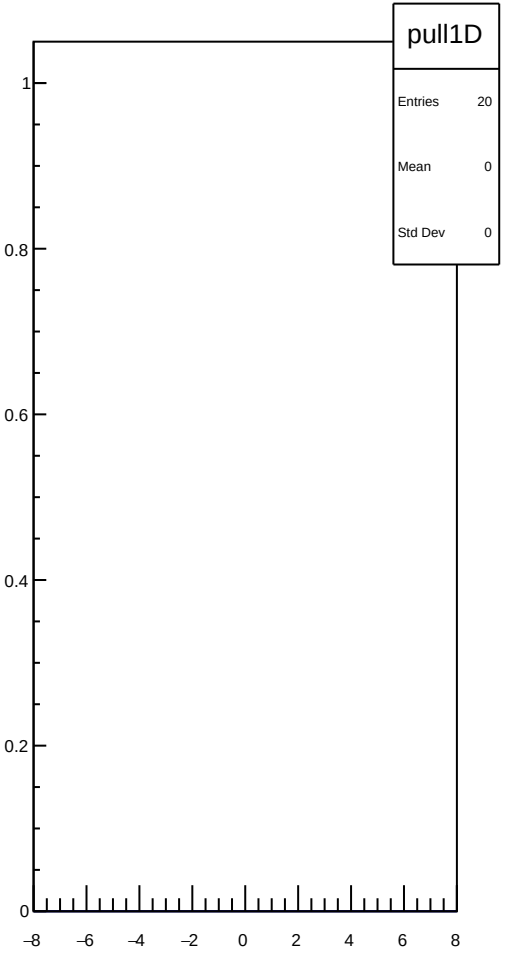

yield_bpm0r05X_mean vs run
χ² / ndf 1.342e+04 / 19
p0 −2.071± 0.0001764
−2.02
−2.03
−2.04
−2.05
−2.06
−2.07
−2.08
−2.09
−2.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 102.1
Std Dev 0
50
40
30
20
10
0
−10
−20
−30

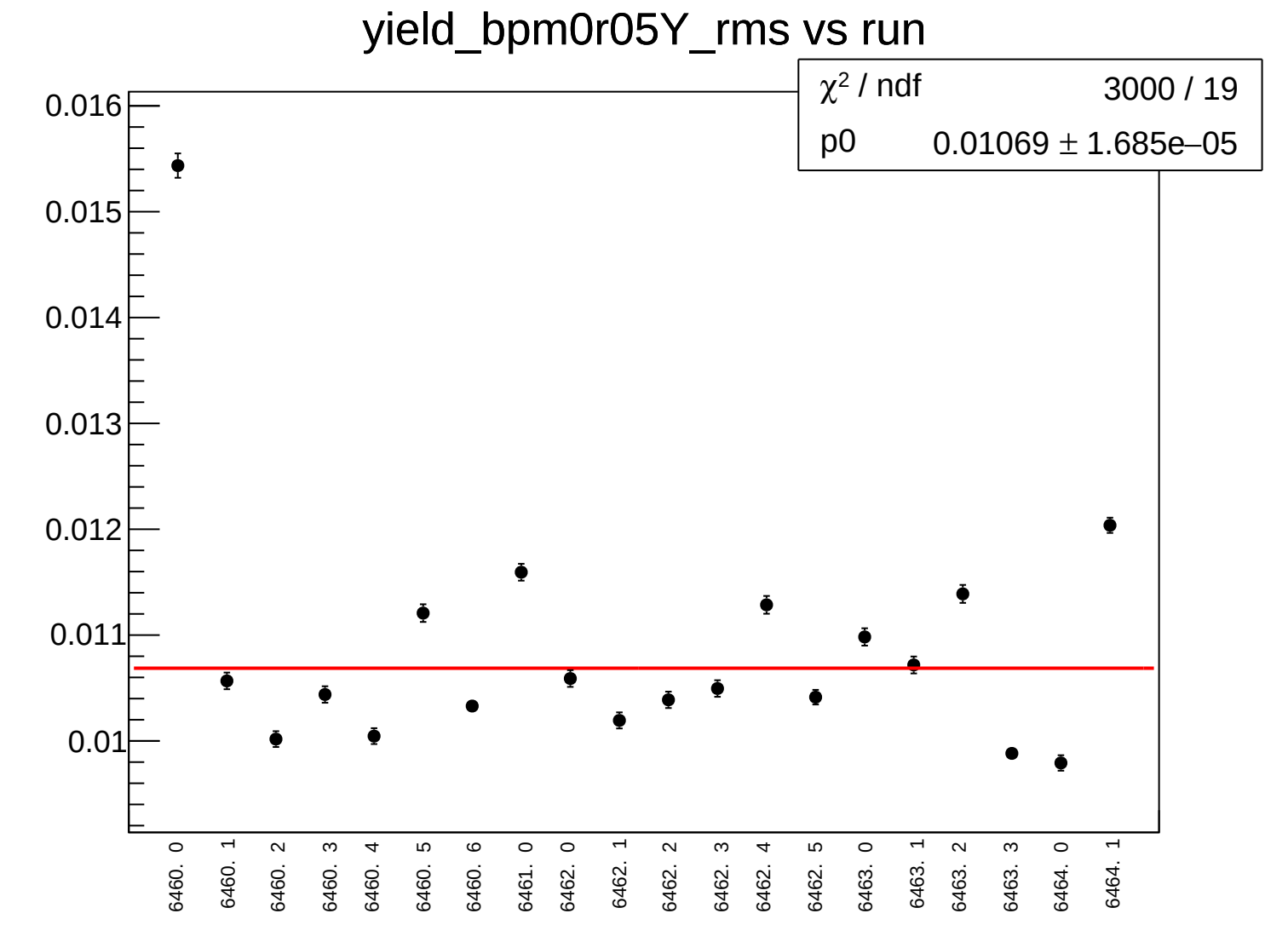

pull1D
Entries 20
Mean −1.387
Std Dev 2.713
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

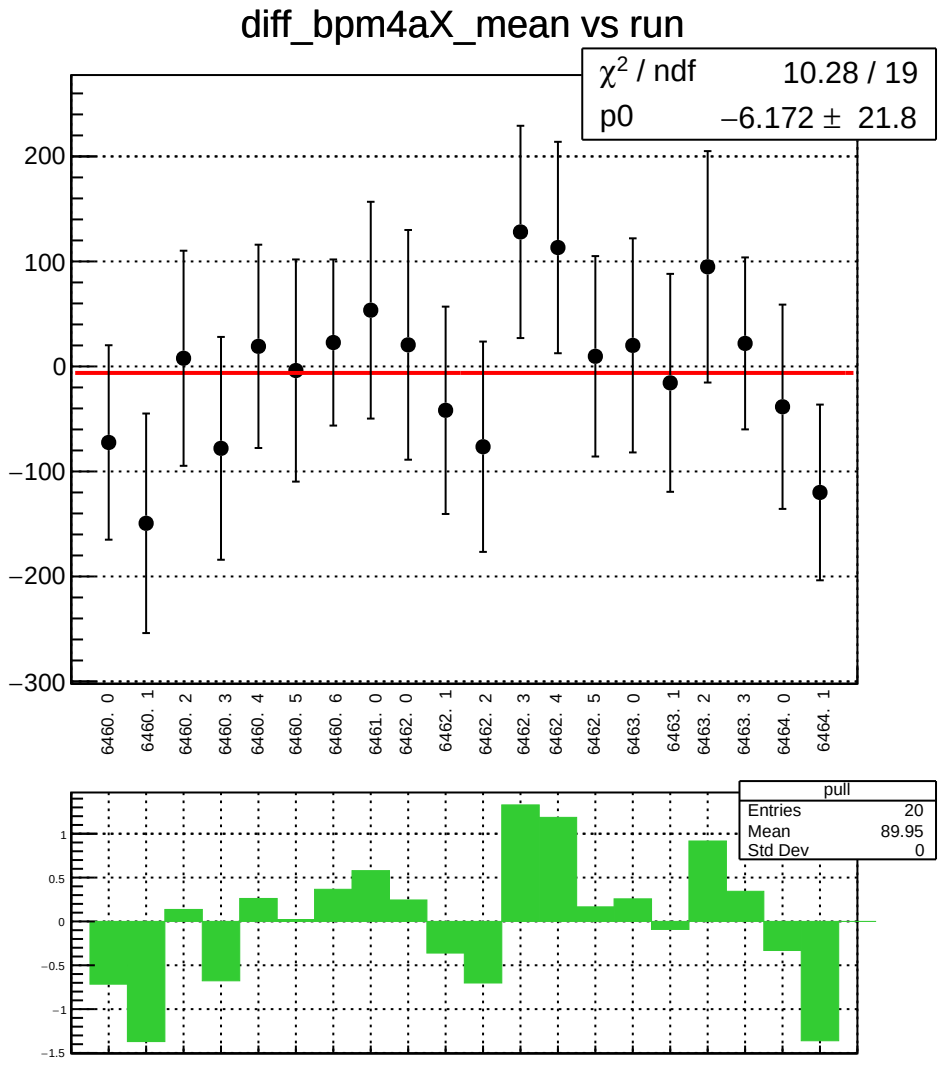

yield_bpm0r05X_rms vs run
χ² / ndf 2556 / 19
p0 0.07915 ± 0.0001247
0.1
0.095
0.09
0.085
0.08
0.075
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

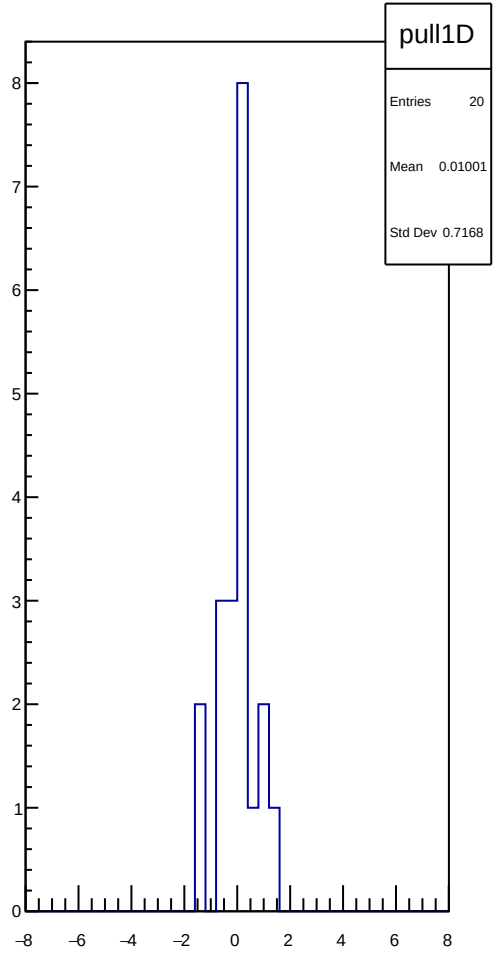

yield_bpm0r05Y_mean vs run
χ² / ndf 1.046e+06 / 19
p0 0.9146 ± 2.383e−05
0.96
0.95
0.94
0.93
0.92
0.91
0.9
0.89
0.88
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

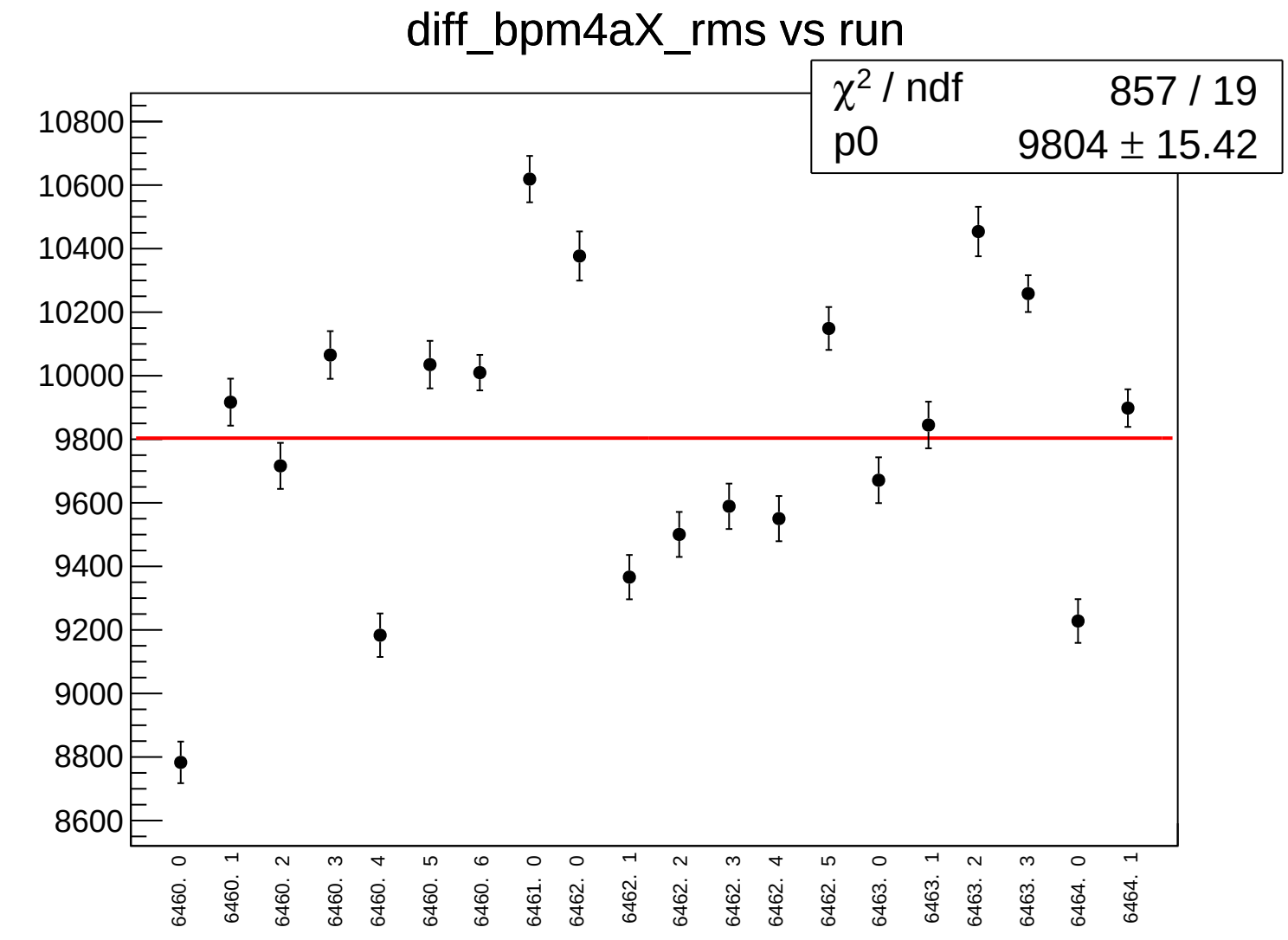

pull
Entries 20
Mean −301.6
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

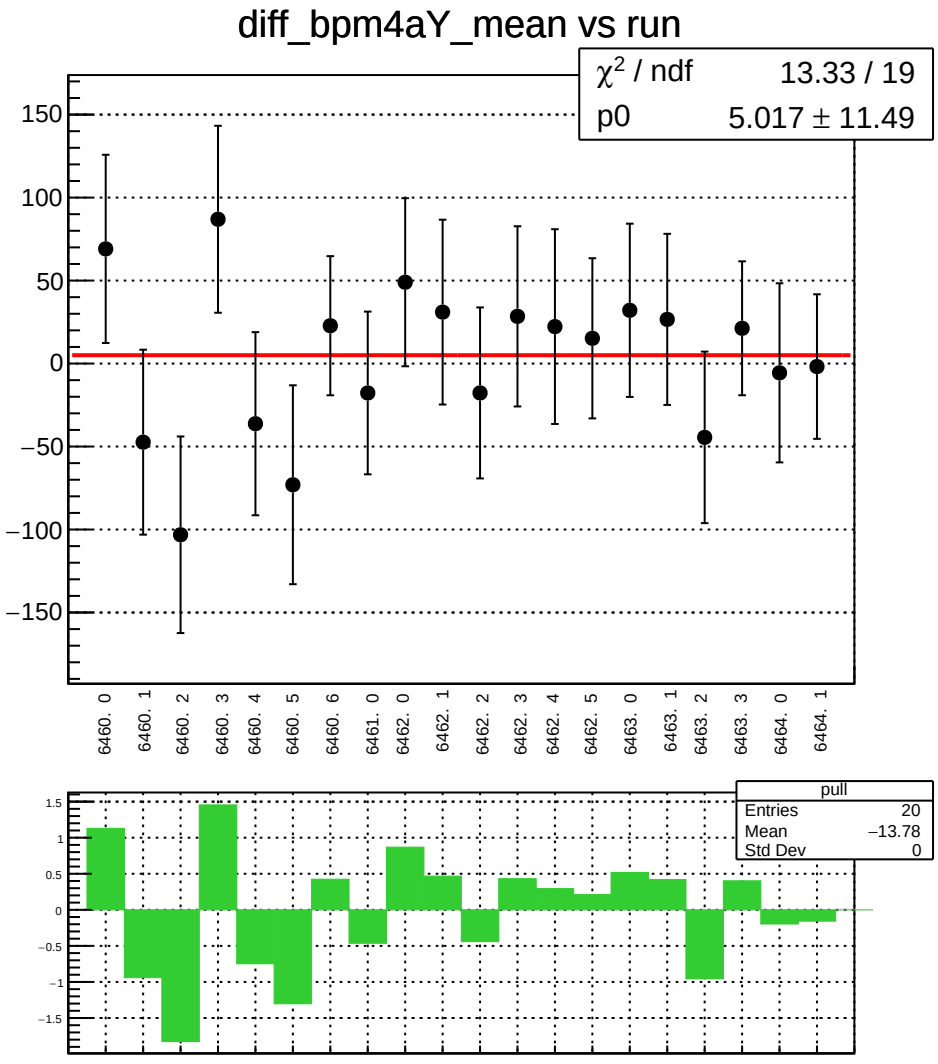

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

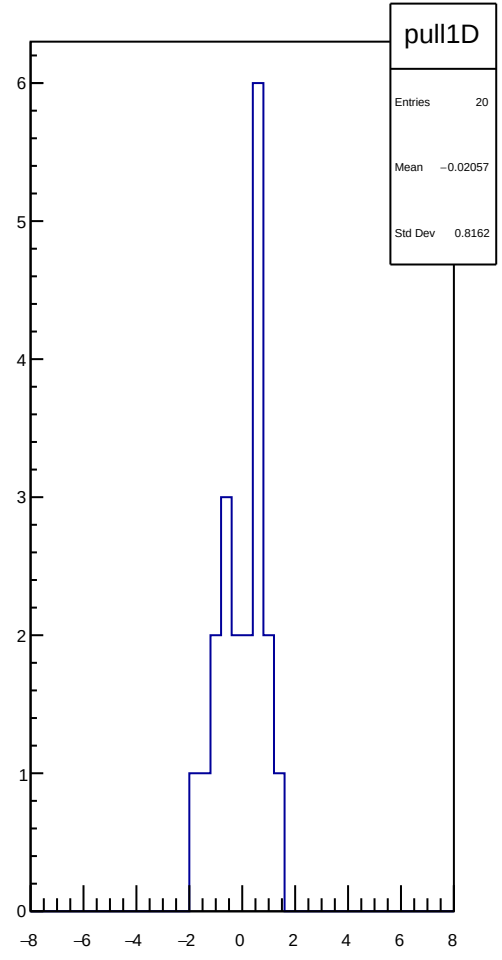

yield_bpm0r05Y_rms vs run
χ² / ndf 3000 / 19
p0 0.01069 ± 1.685e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

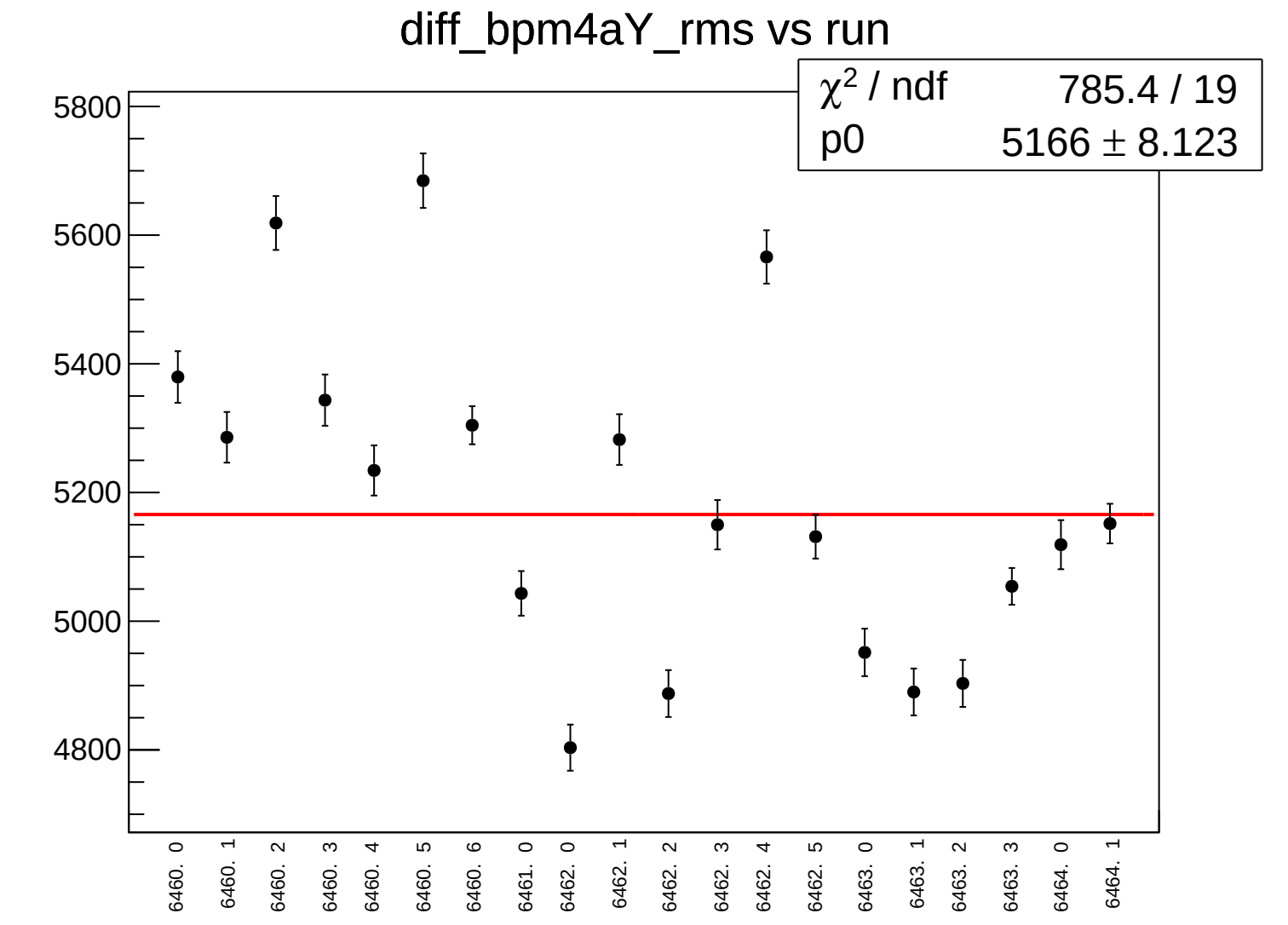

diff_bpm4aX_mean vs run
χ² / ndf 10.28 / 19
p0 −6.172 ± 21.8
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 89.95
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

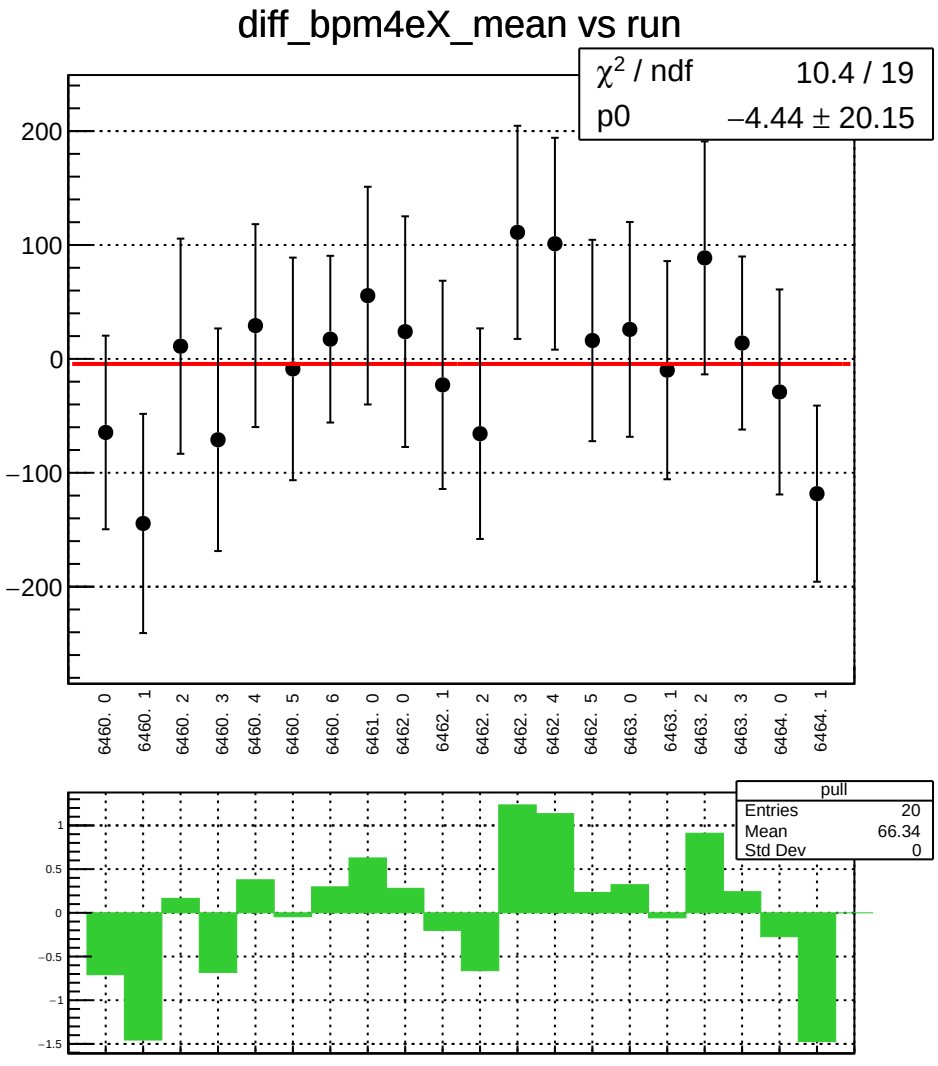

pull1D
Entries 20
Mean 0.01001
Std Dev 0.7168
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

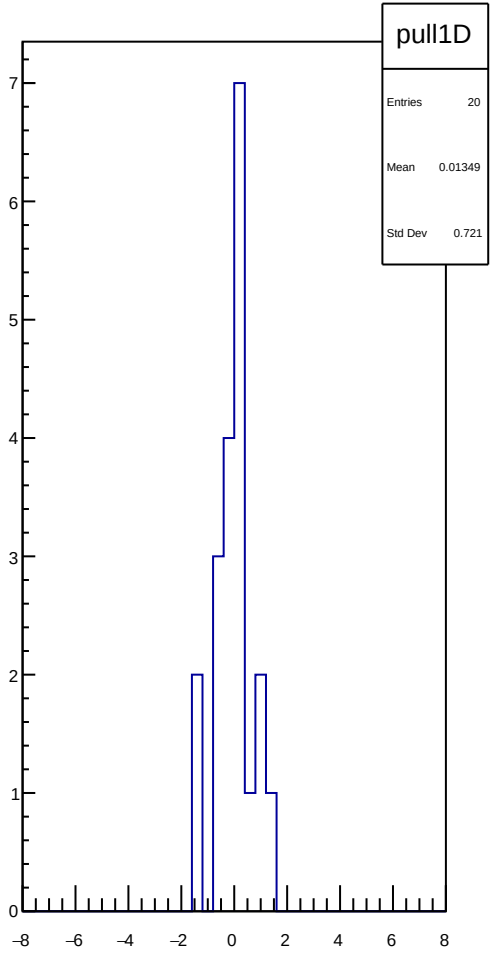

diff_bpm4aX_rms vs run
χ² / ndf 857 / 19
p0 9804 ± 15.42
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

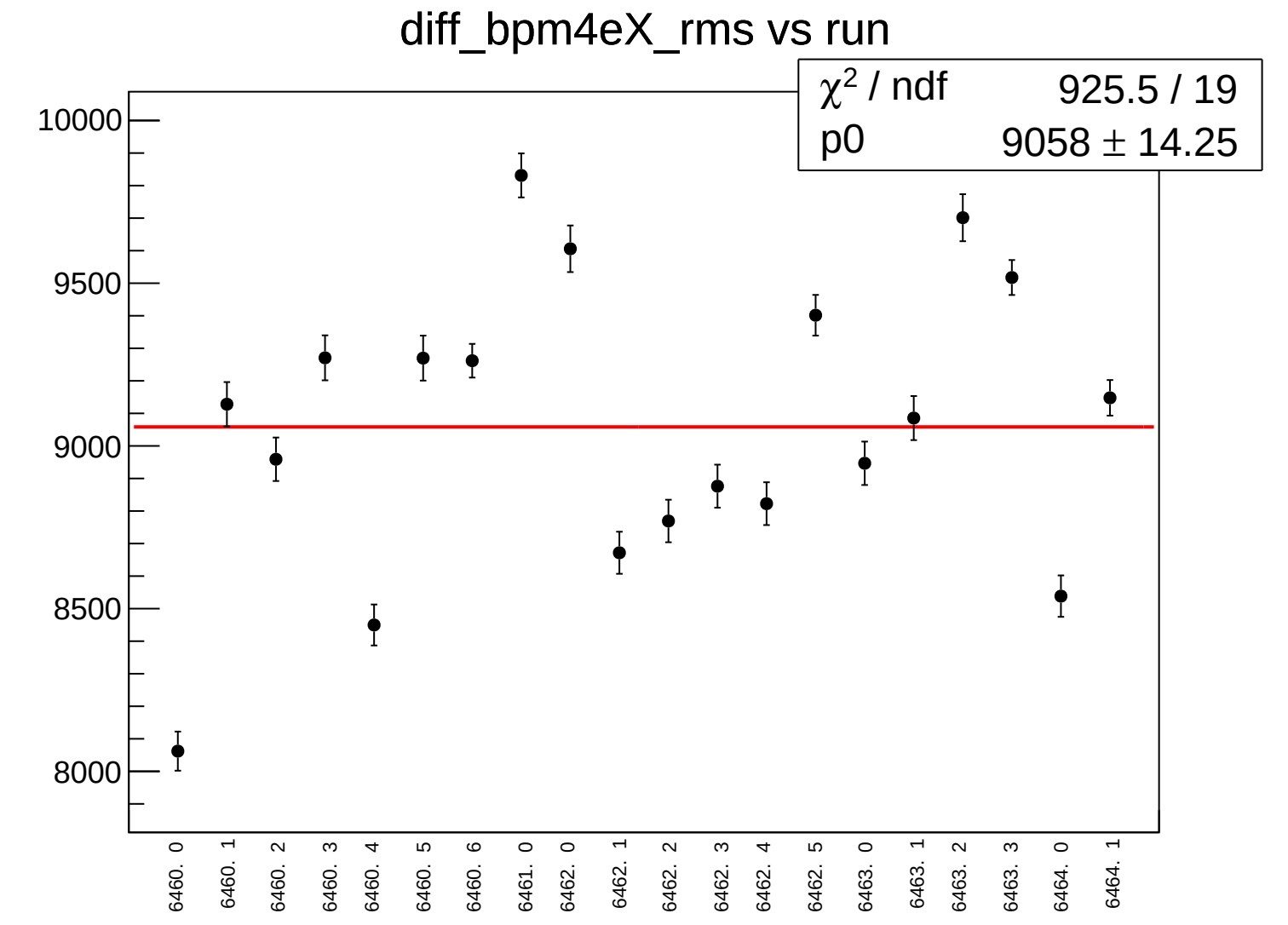

diff_bpm4aY_mean vs run
χ² / ndf 13.33 / 19
p0 5.017 ± 11.49
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −13.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

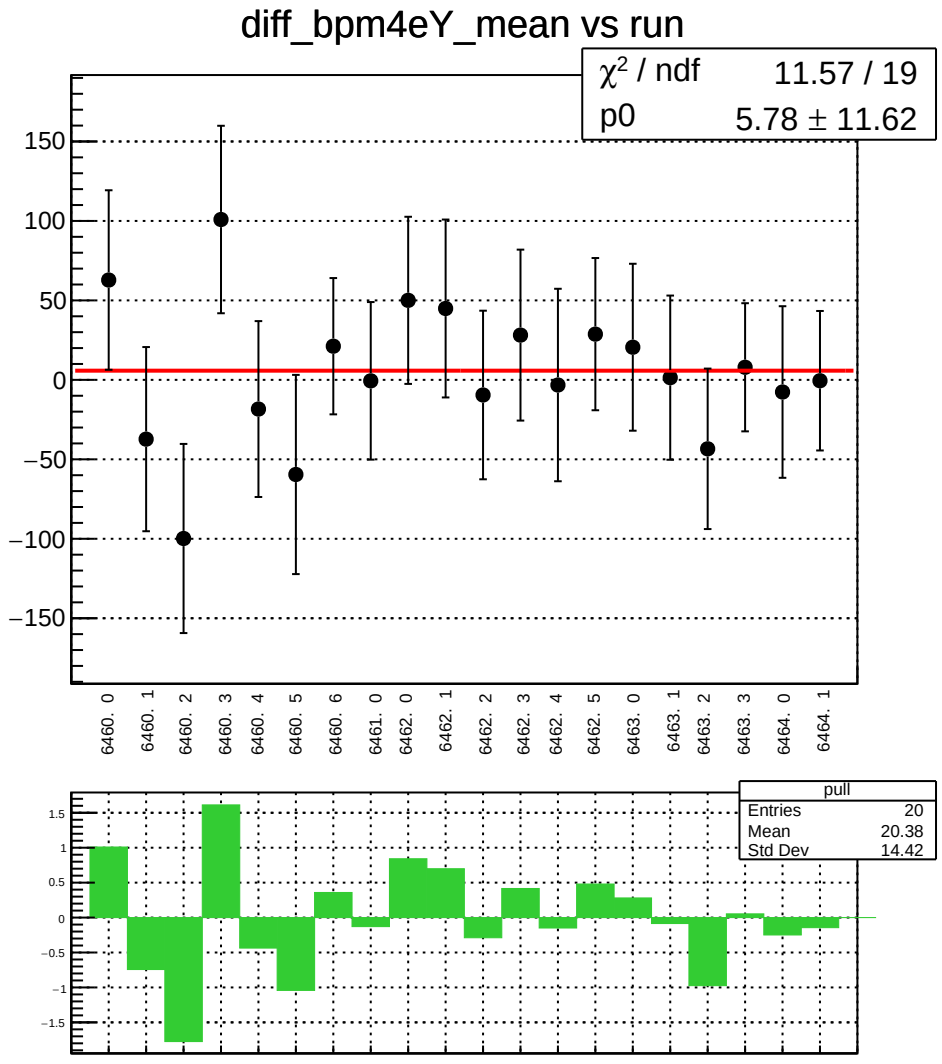

pull1D
Entries 20
Mean −0.02057
Std Dev 0.8162
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

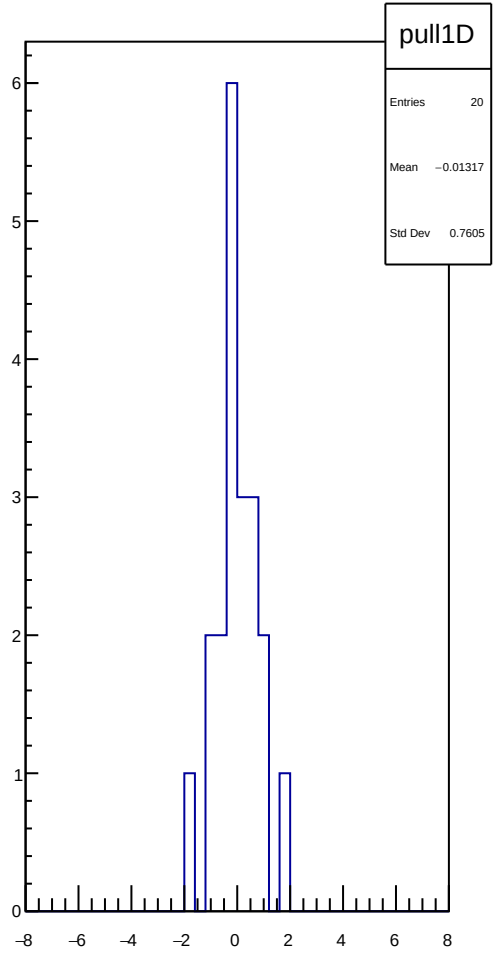

diff_bpm4aY_rms vs run
χ^2 / ndf 785.4 / 19
p0 5166 ± 8.123
5800
5600
5400
5200
5000
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

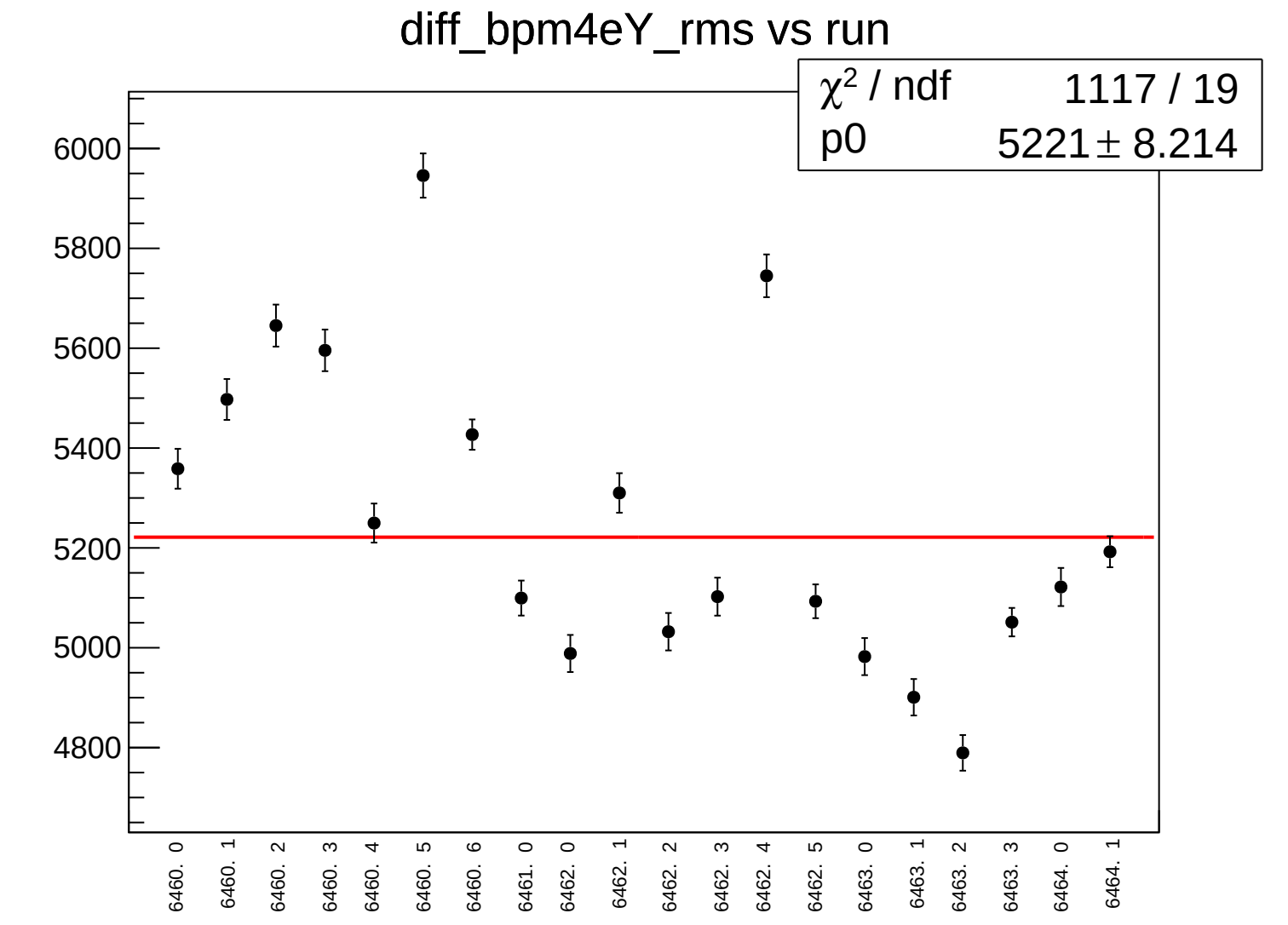

diff_bpm4eX_mean vs run
χ² / ndf 10.4 / 19
p0 −4.44 ± 20.15
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 66.34
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

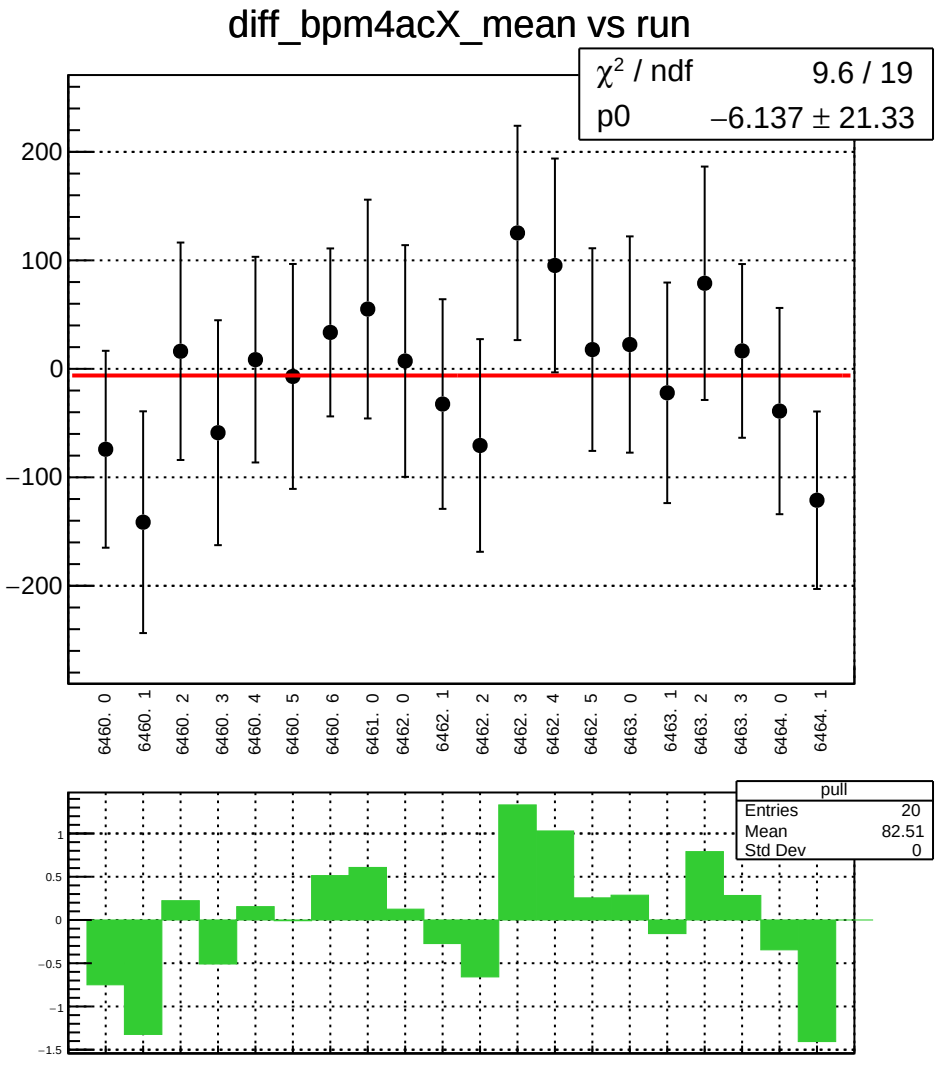

pull1D
Entries 20
Mean 0.01349
Std Dev 0.721
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

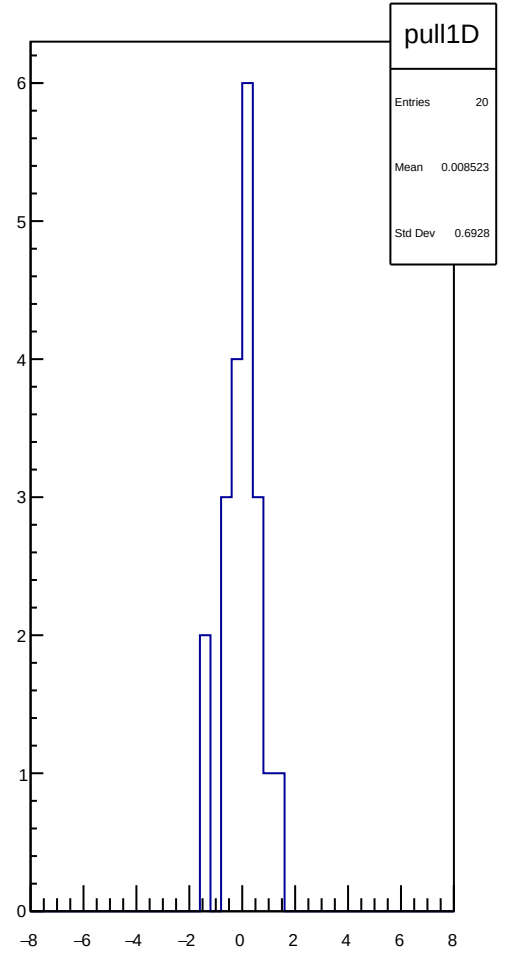

diff_bpm4eX_rms vs run
χ² / ndf 925.5 / 19
p0 9058 ± 14.25
10000
9500
9000
8500
8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

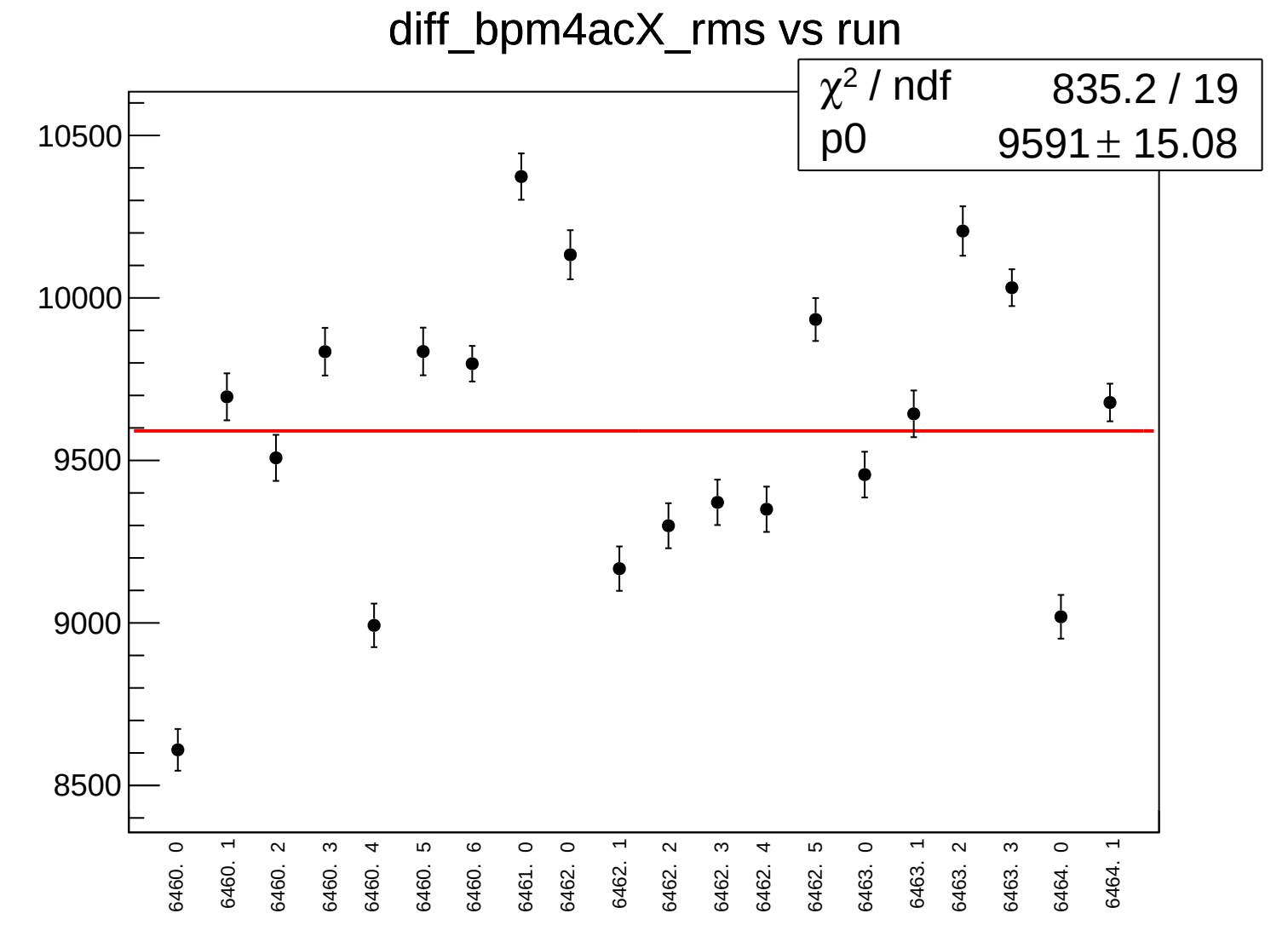

diff_bpm4eY_mean vs run
χ² / ndf 11.57 / 19
p0 5.78 ± 11.62
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 20.38
Std Dev 14.42
1.5
1
0.5
0
−0.5
−1
−1.5

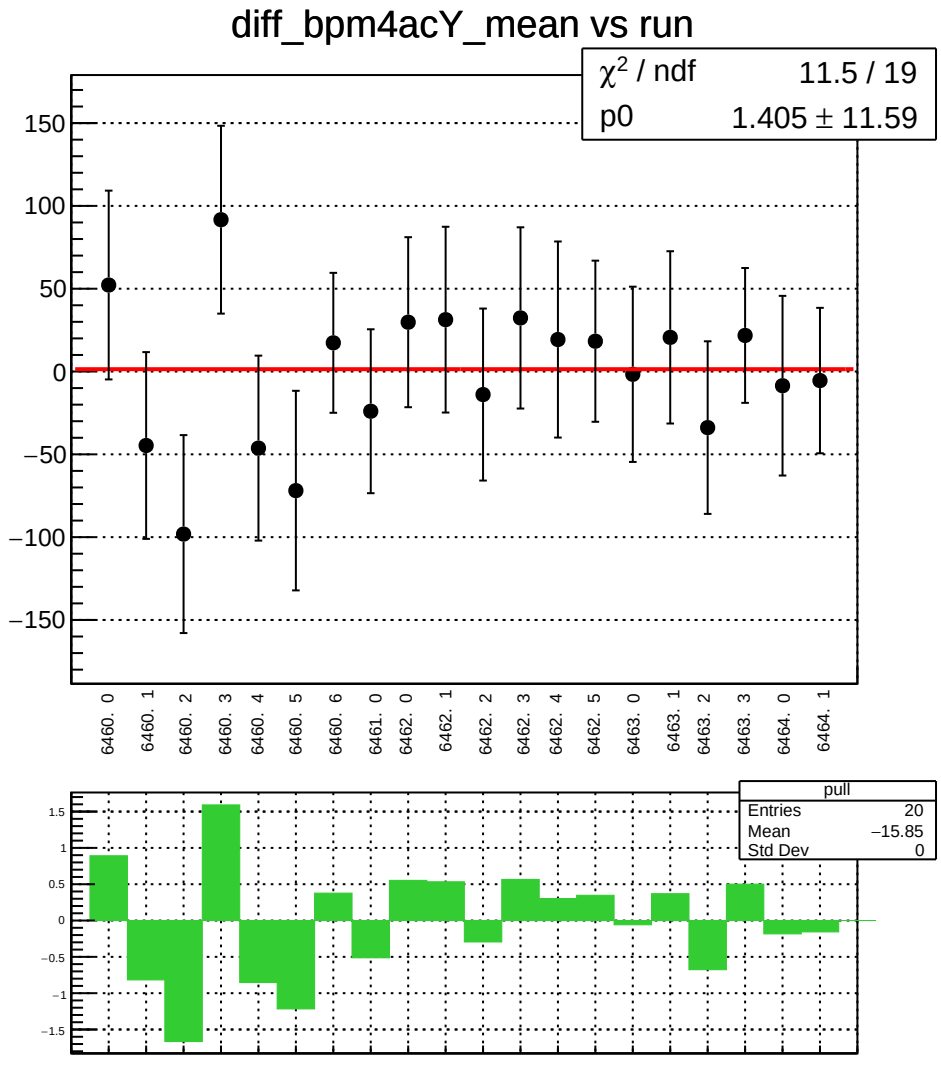

pull1D
Entries 20
Mean −0.01317
Std Dev 0.7605
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

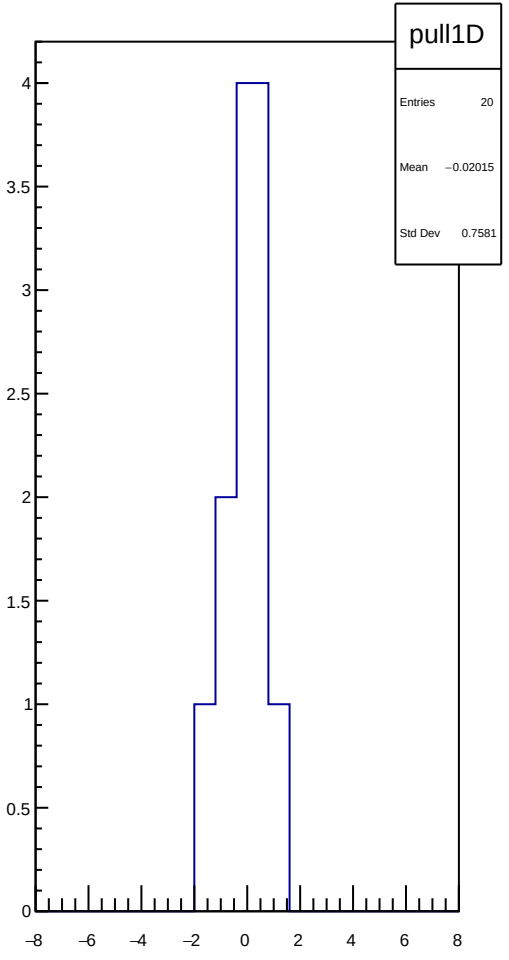

diff_bpm4eY_rms vs run
χ² / ndf 1117 / 19
p0 5221 ± 8.214
6000
5800
5600
5400
5200
5000
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

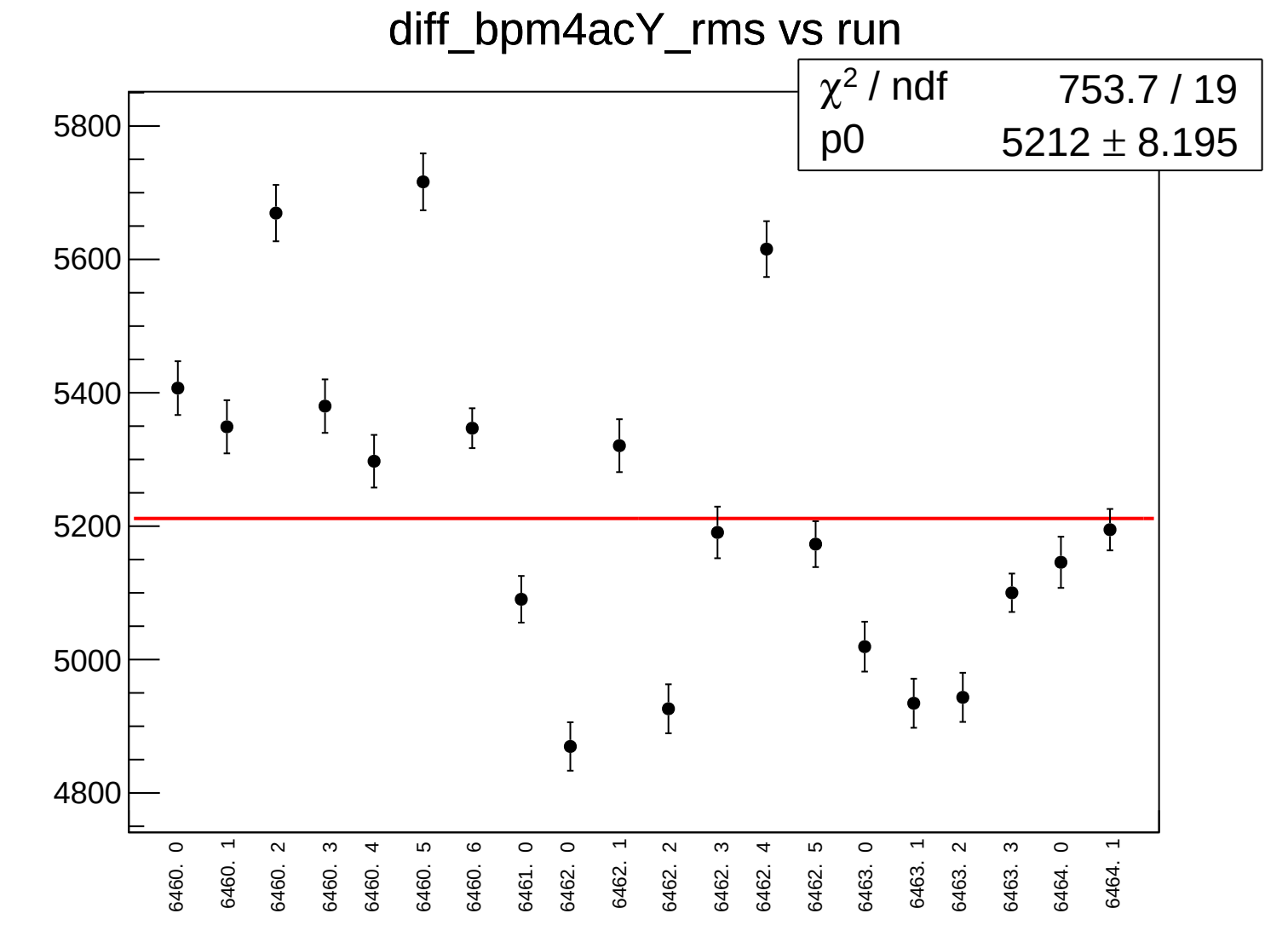

diff_bpm4acX_mean vs run
χ² / ndf 9.6 / 19
p0 −6.137 ± 21.33
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 82.51
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

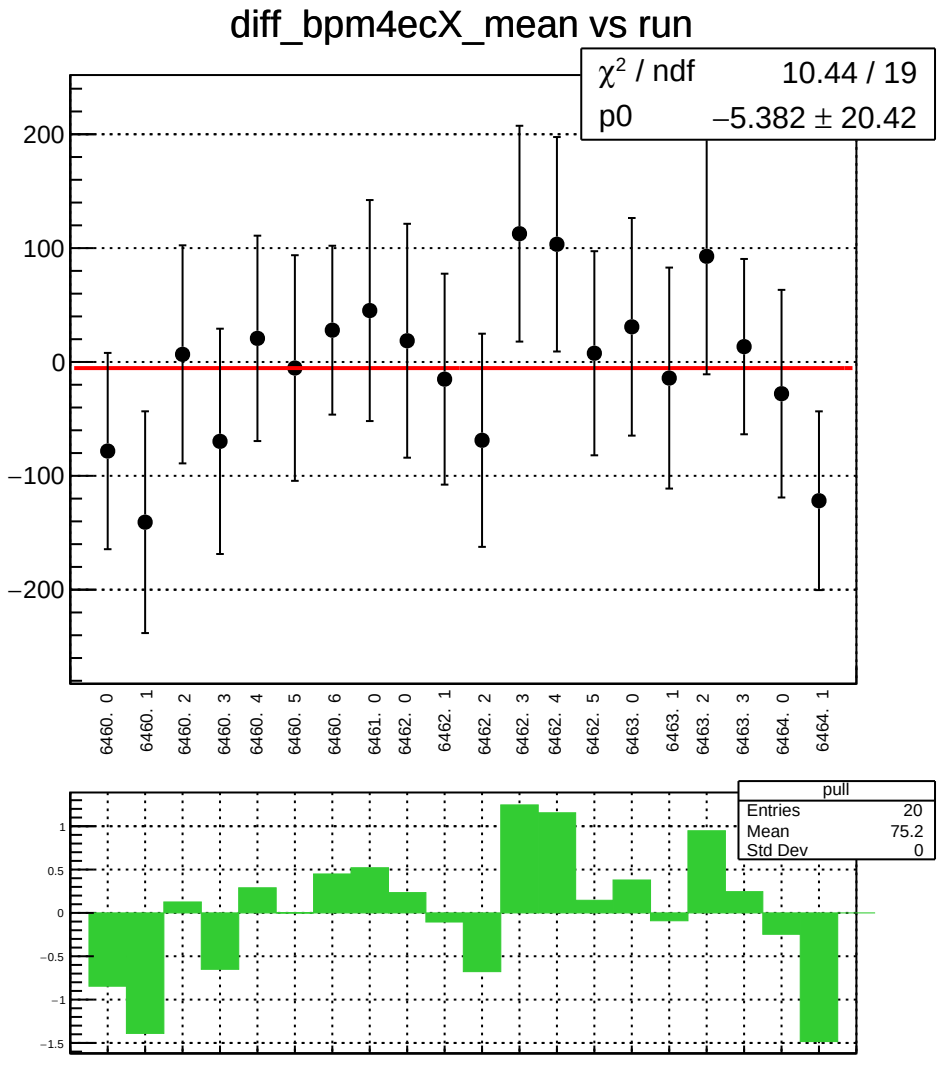

pull1D
Entries 20
Mean 0.008523
Std Dev 0.6928
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

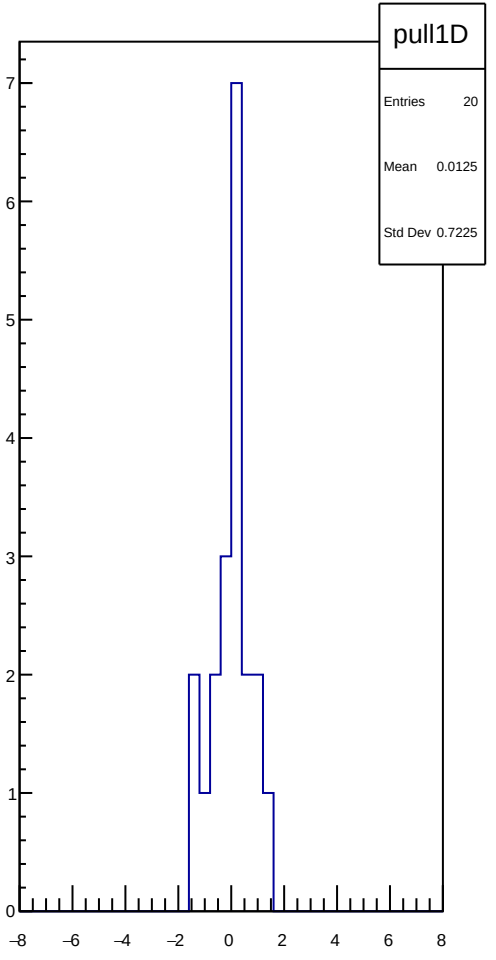

diff_bpm4acX_rms vs run
χ² / ndf 835.2 / 19
p0 9591 ± 15.08
10500
10000
9500
9000
8500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

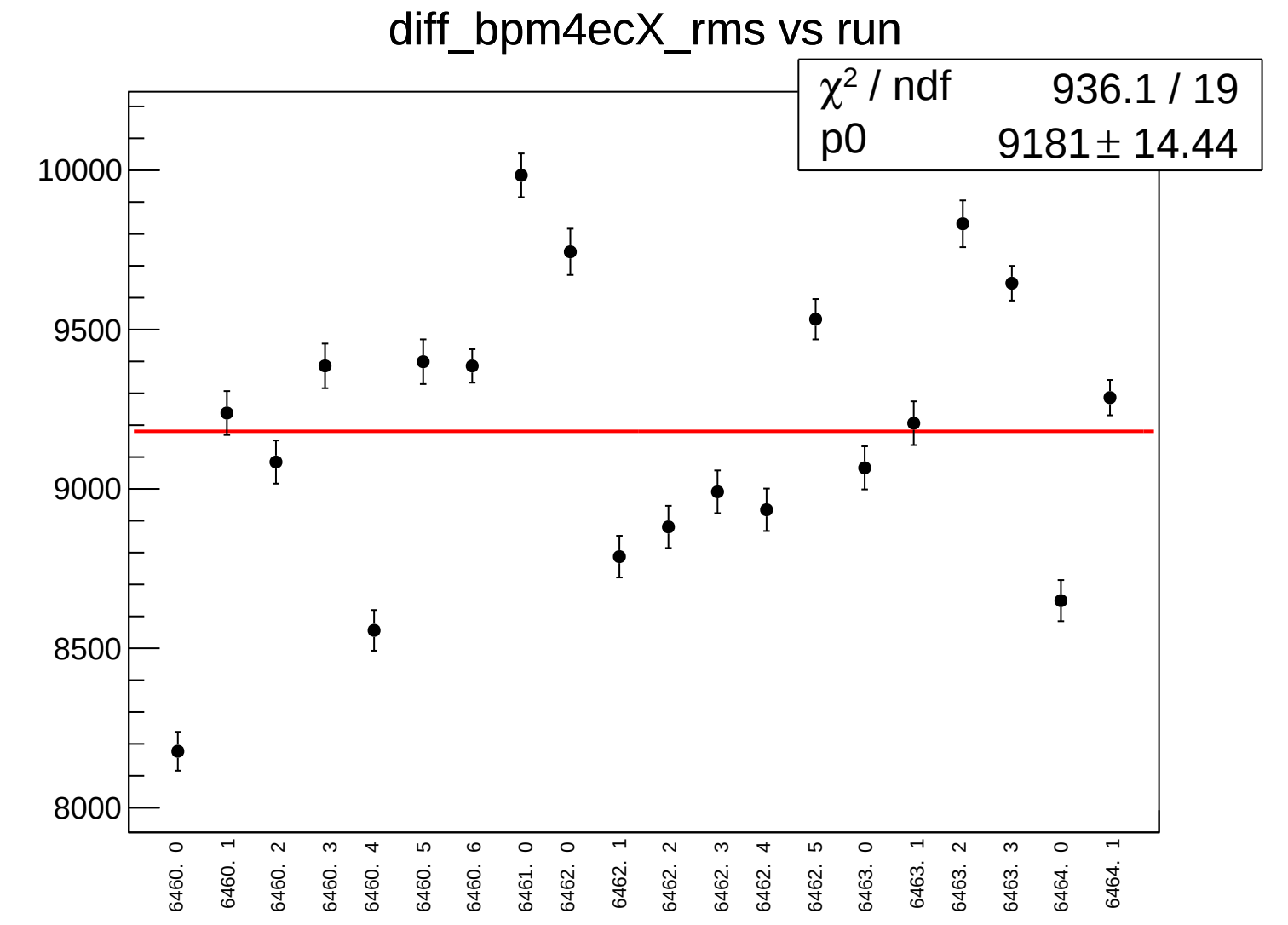

diff_bpm4acY_mean vs run
χ² / ndf 11.5 / 19
p0 1.405 ± 11.59
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −15.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

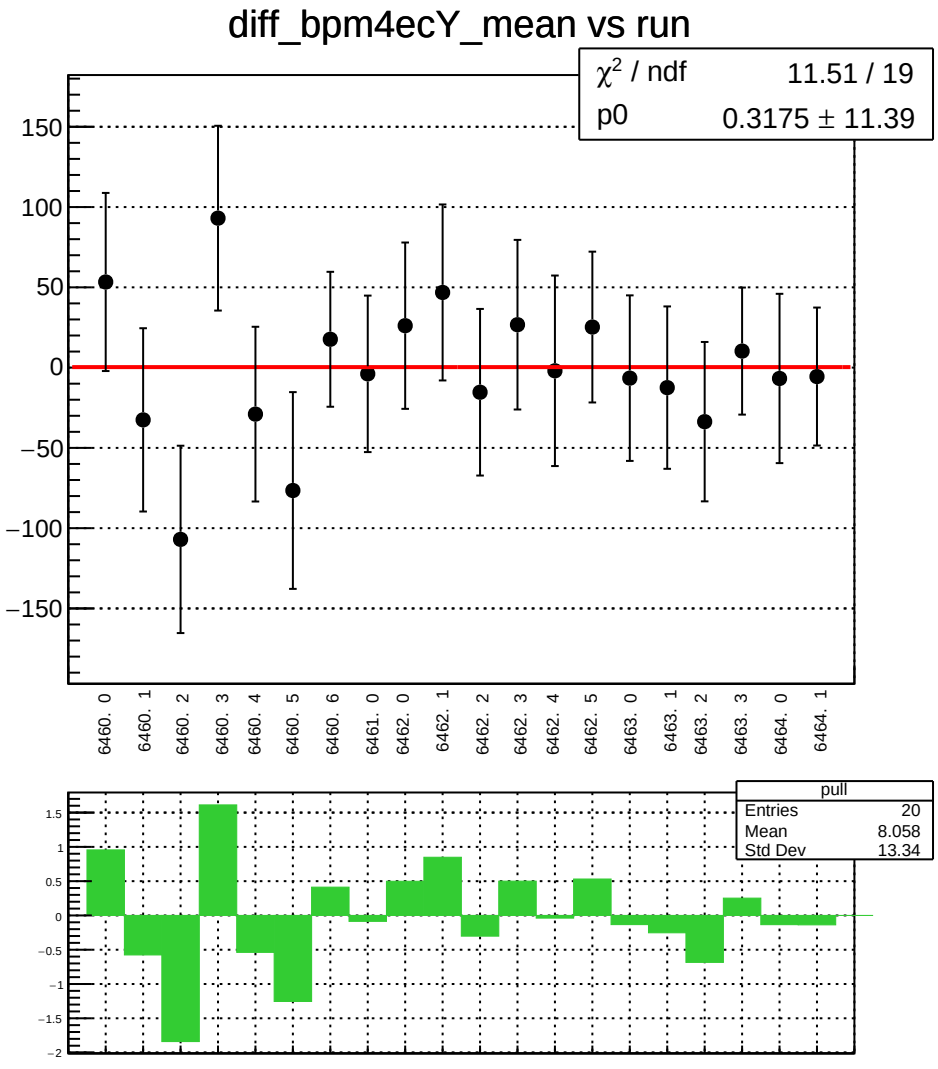

pull1D
Entries 20
Mean −0.02015
Std Dev 0.7581
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

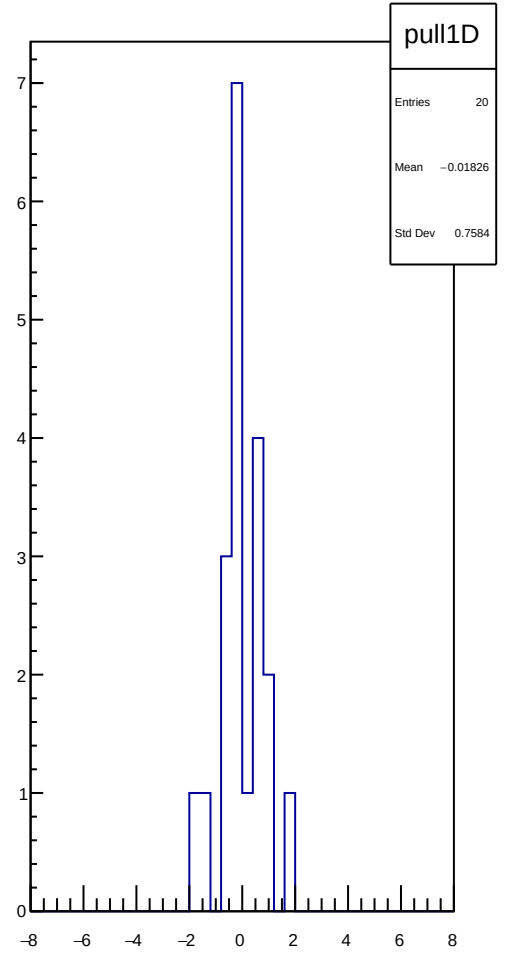

diff_bpm4acY_rms vs run
χ² / ndf 753.7 / 19
p0 5212 ± 8.195
5800
5600
5400
5200
5000
4800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

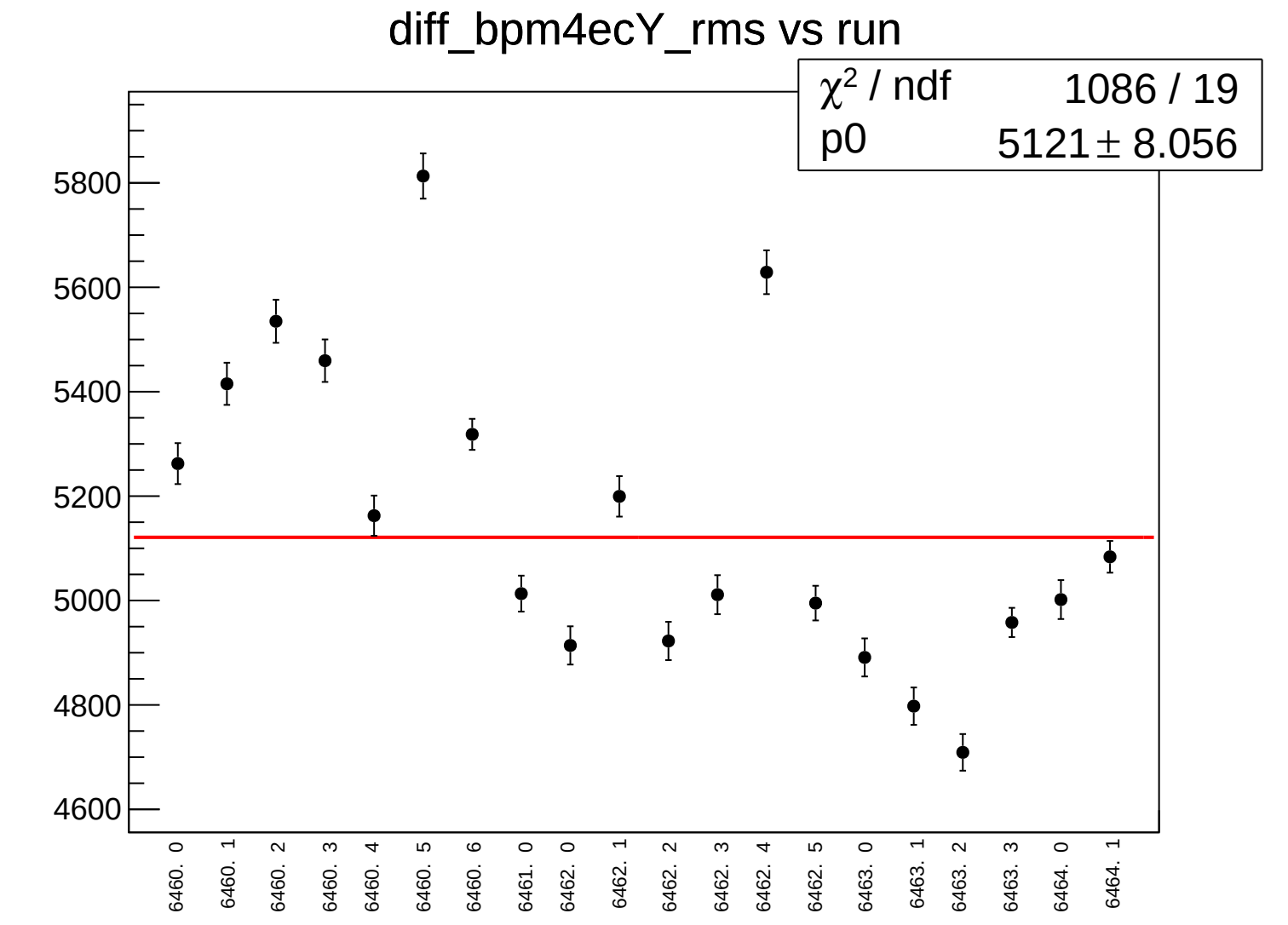

diff_bpm4ecX_mean vs run
χ² / ndf 10.44 / 19
p0 −5.382 ± 20.42
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 75.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

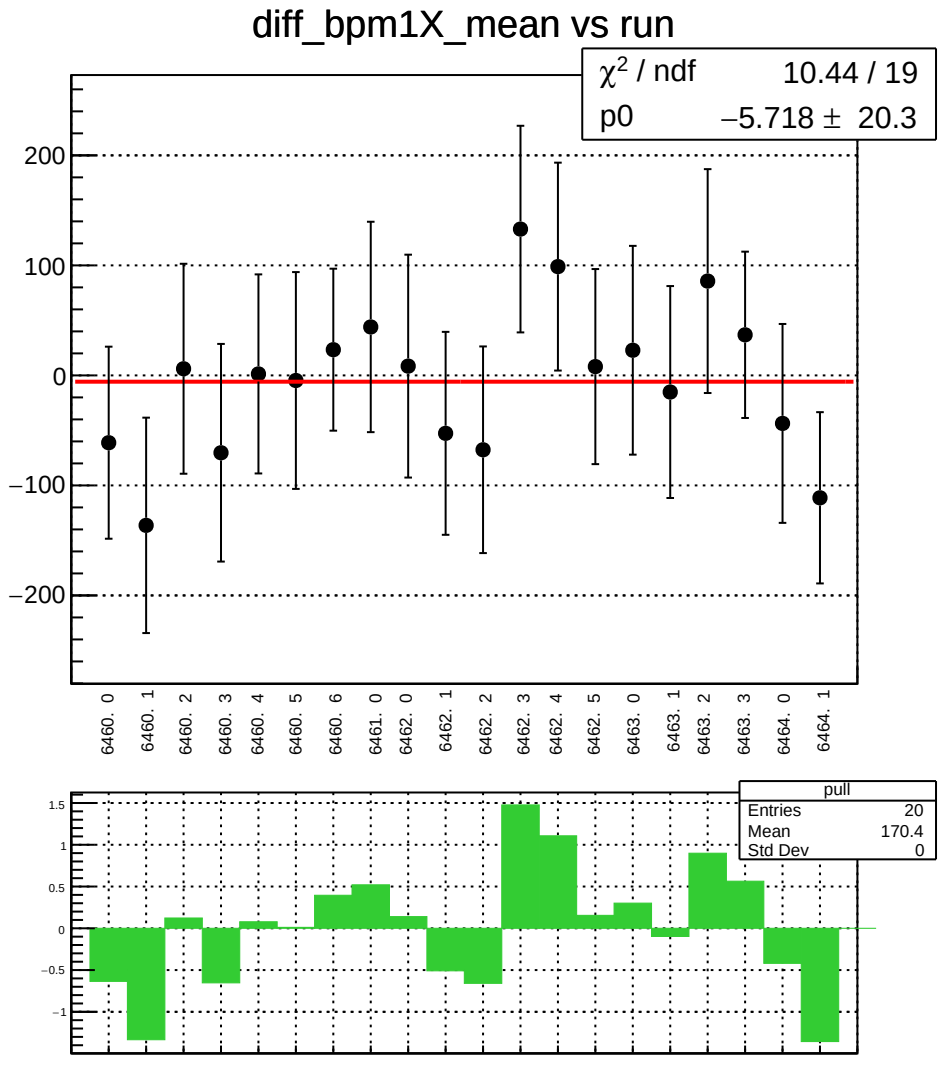

pull1D
Entries 20
Mean 0.0125
Std Dev 0.7225
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

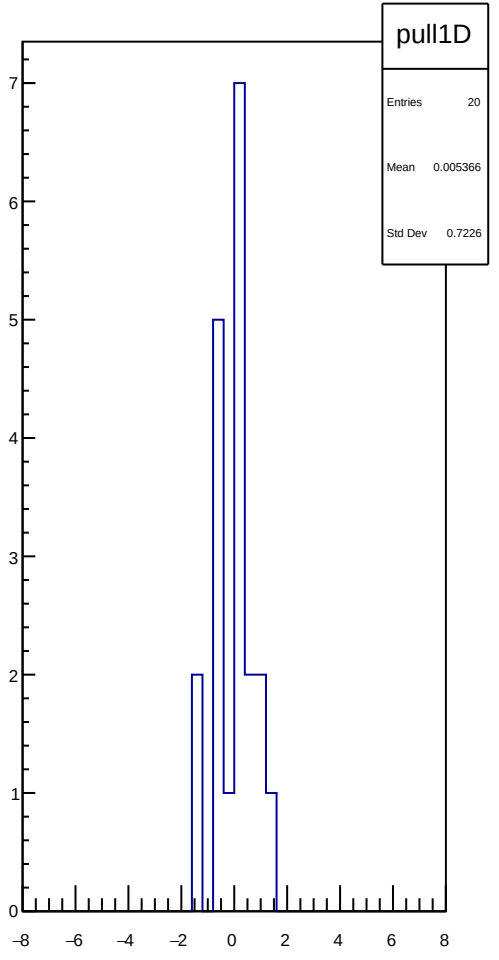

diff_bpm4ecX_rms vs run
χ² / ndf 936.1 / 19
p0 9181 ± 14.44
10000
9500
9000
8500
8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

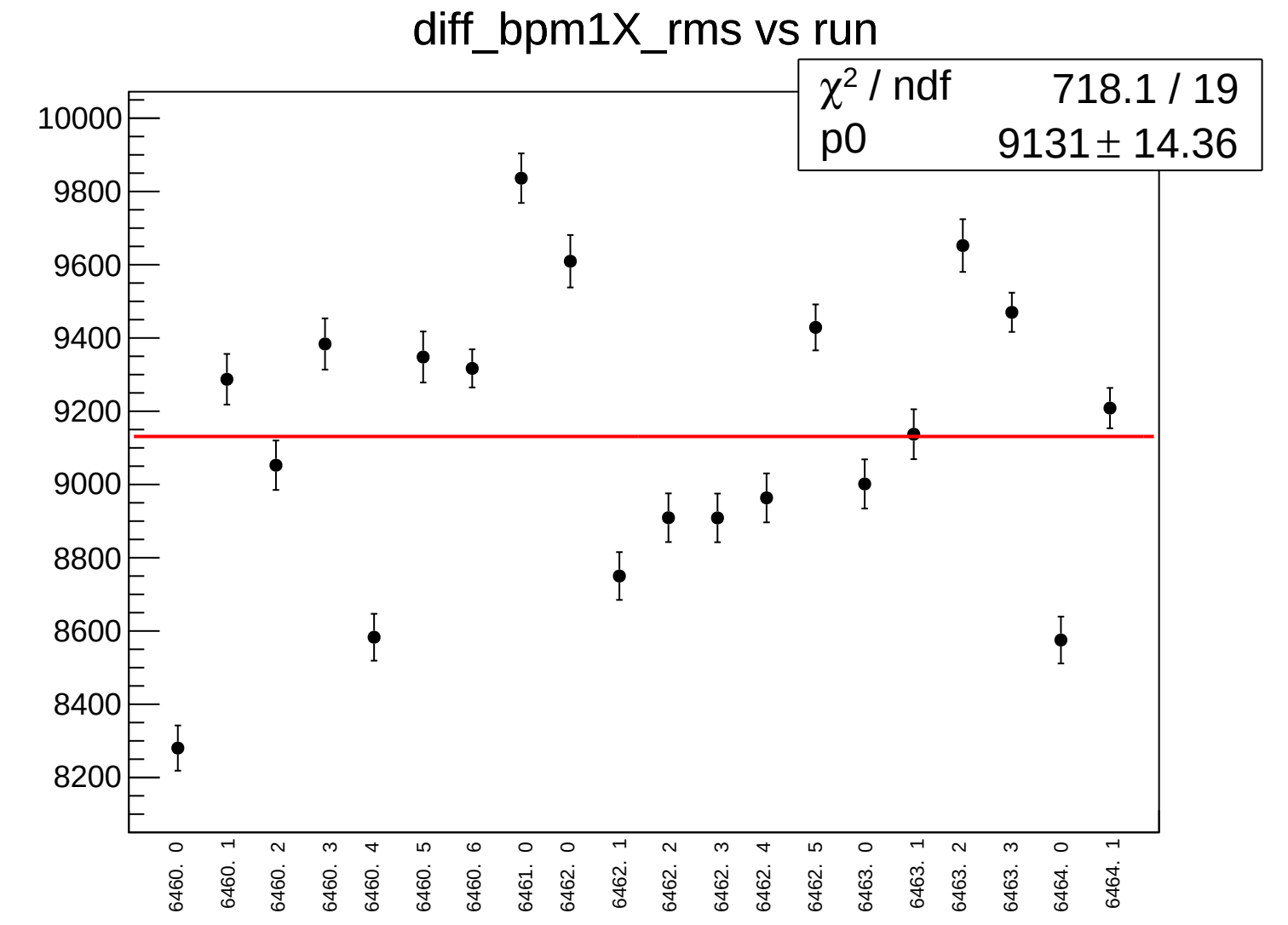

diff_bpm4ecY_mean vs run
χ² / ndf 11.51 / 19
p0 0.3175 ± 11.39
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.058
Std Dev 13.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2

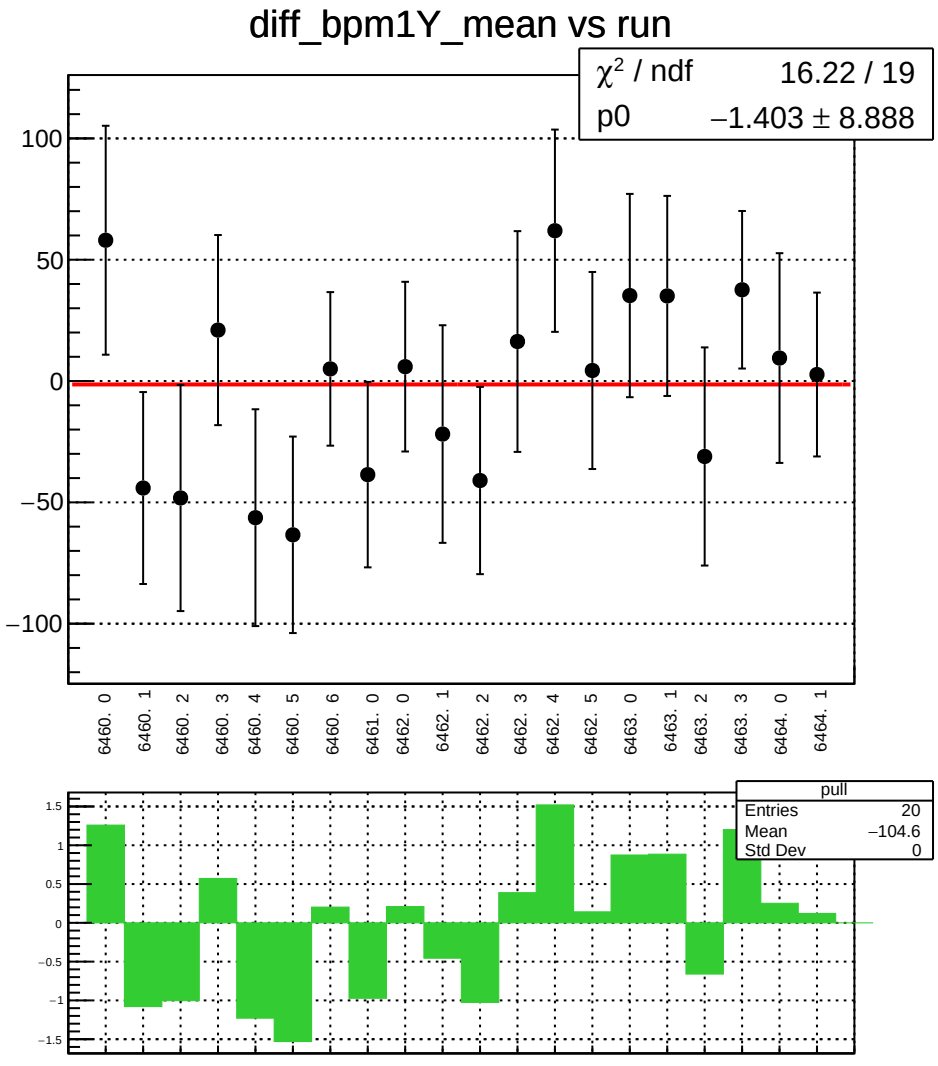

pull1D
Entries 20
Mean −0.01826
Std Dev 0.7584
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

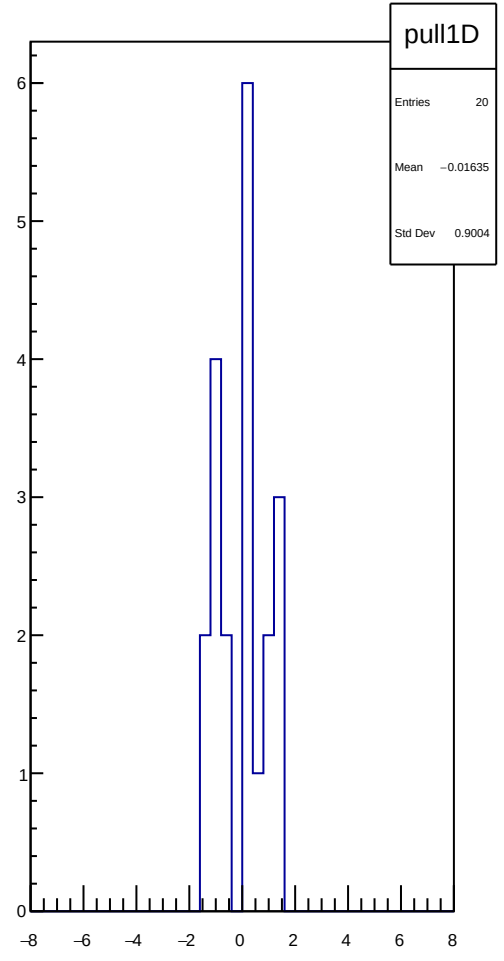

diff_bpm4ecY_rms vs run
χ² / ndf 1086 / 19
p0 5121 ± 8.056
5800
5600
5400
5200
5000
4800
4600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

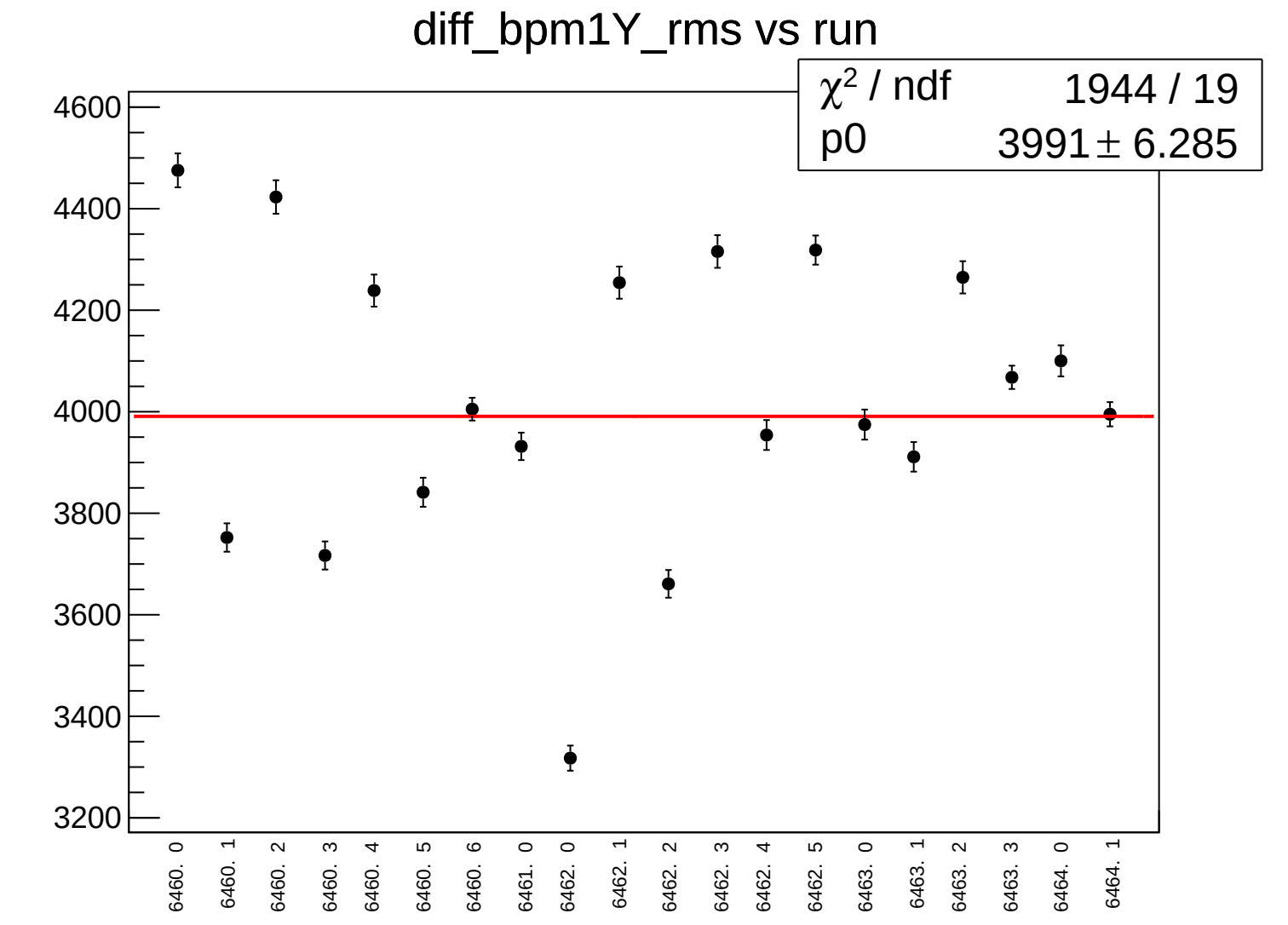

diff_bpm1X_mean vs run
χ² / ndf 10.44 / 19
p0 −5.718 ± 20.3
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 170.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

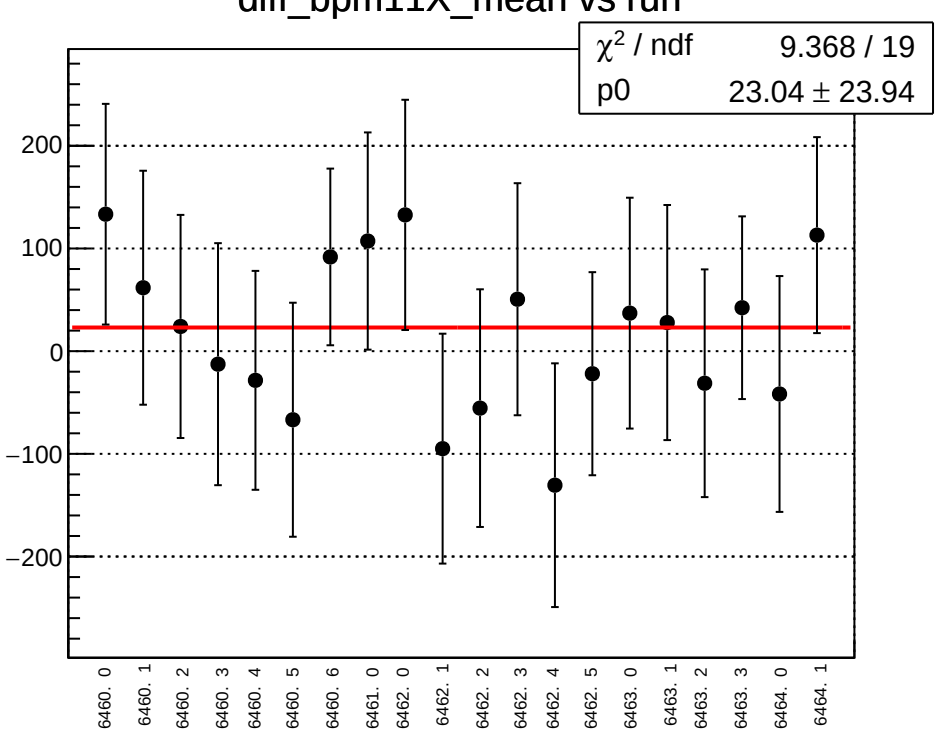

pull1D
Entries 20
Mean 0.005366
Std Dev 0.7226
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

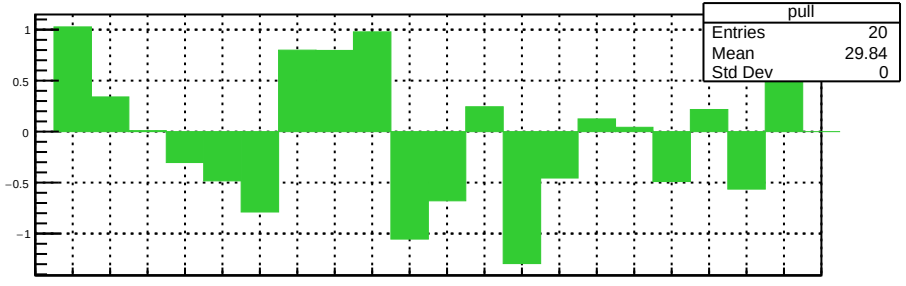

diff_bpm1X_rms vs run
χ² / ndf 718.1 / 19
p0 9131 ± 14.36
10000
9800
9600
9400
9200
9000
8800
8600
8400
8200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

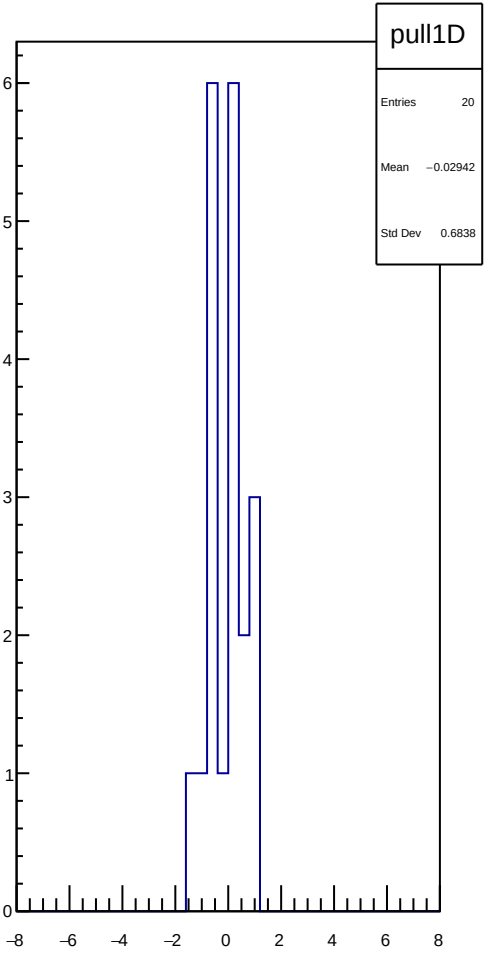

diff_bpm1Y_mean vs run
χ² / ndf 16.22 / 19
p0 −1.403 ± 8.888
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −104.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

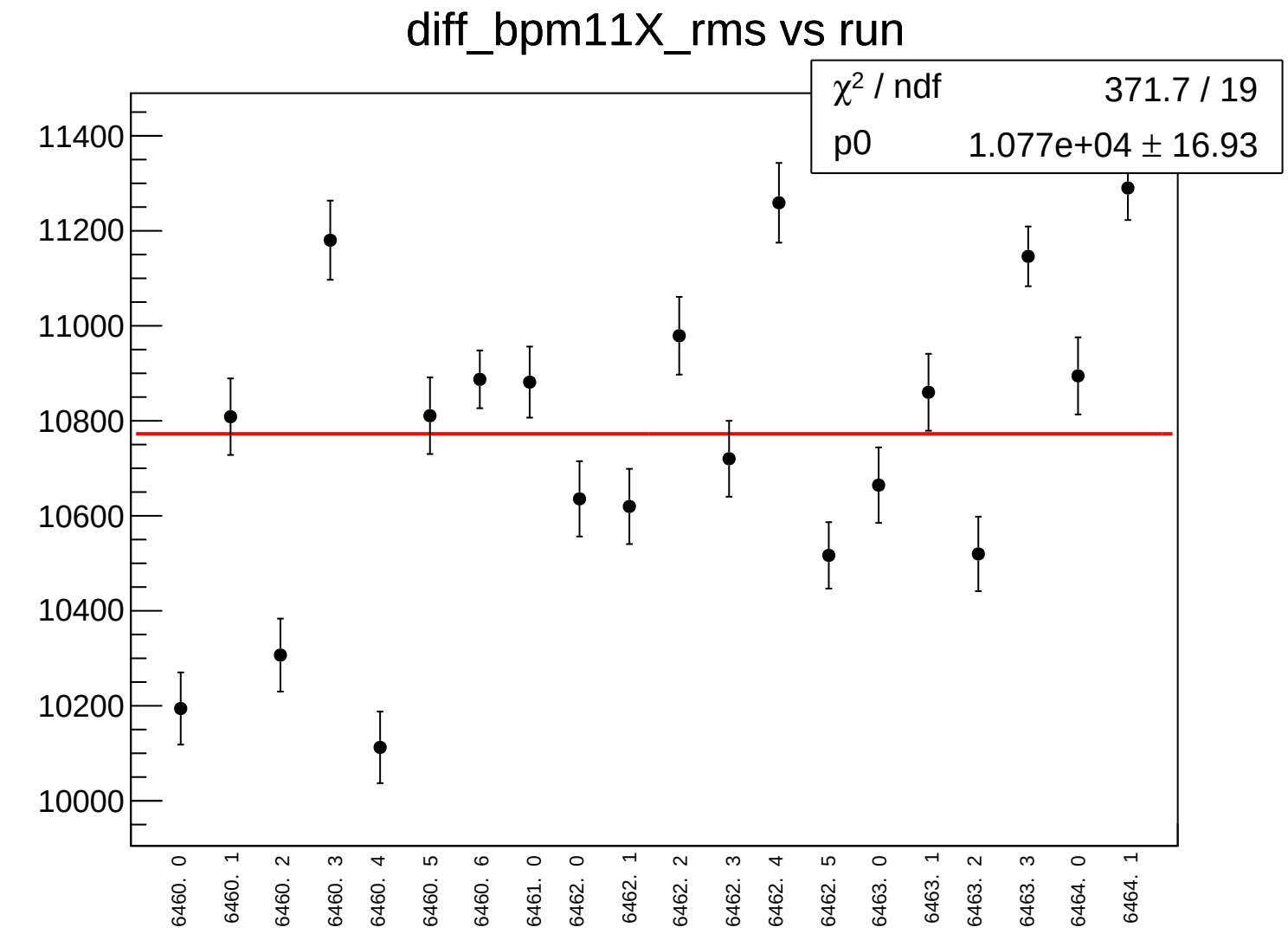

pull1D
Entries 20
Mean −0.01635
Std Dev 0.9004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

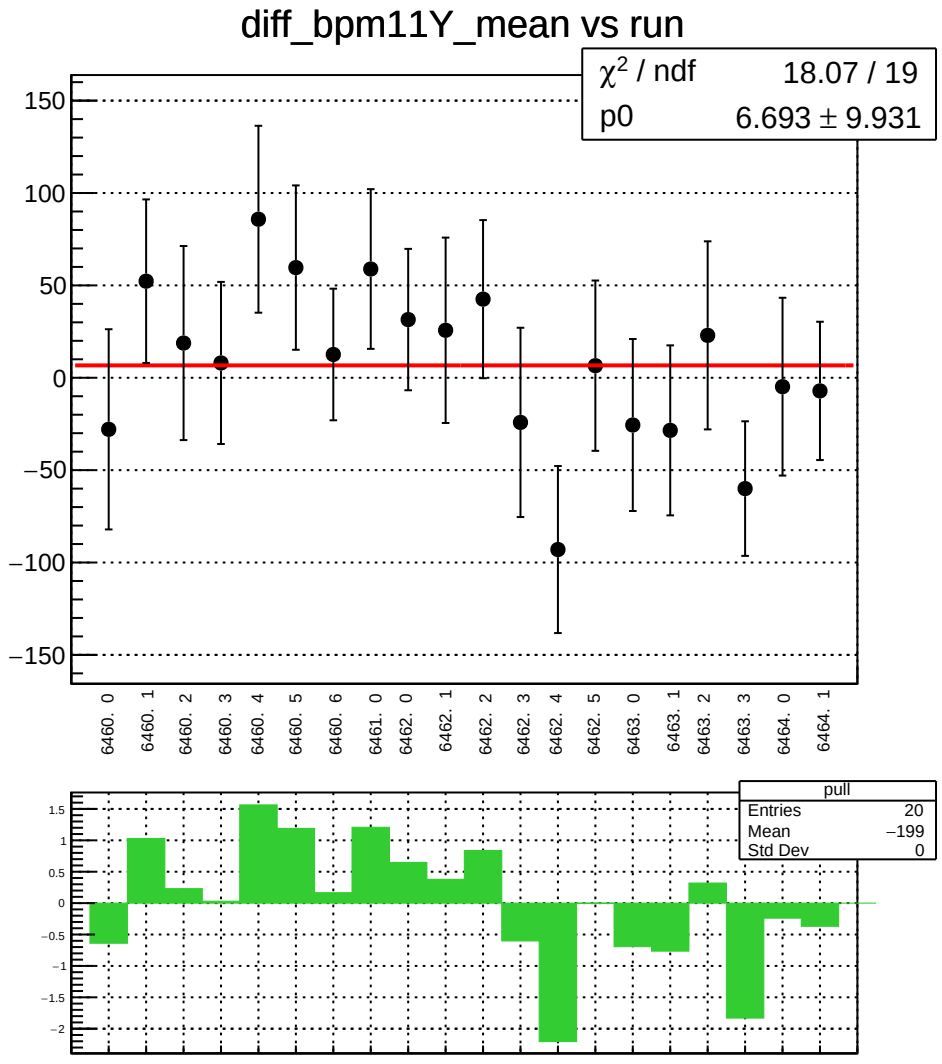

diff_bpm1Y_rms vs run
χ² / ndf 1944 / 19
p0 3991 ± 6.285
4600
4400
4200
4000
3800
3600
3400
3200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

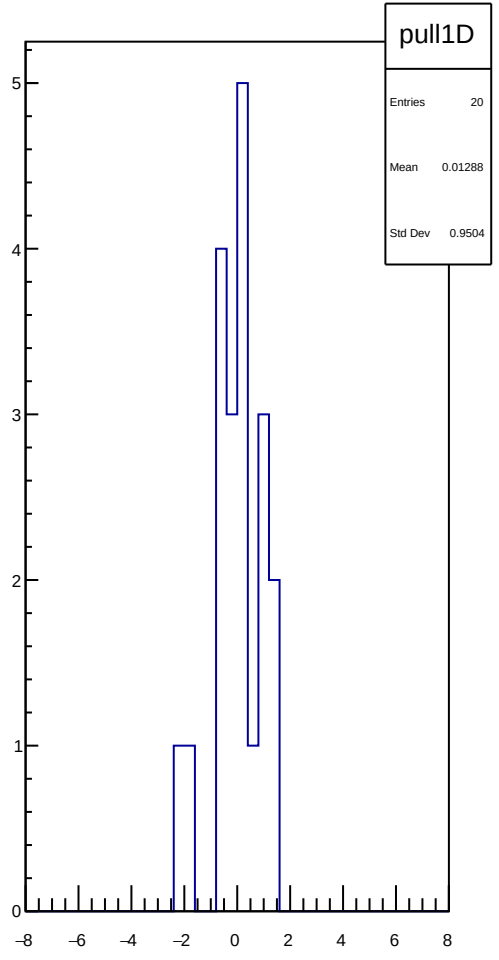

diff_bpm11X_mean vs run
χ² / ndf 9.368 / 19
p0 23.04 ± 23.94
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

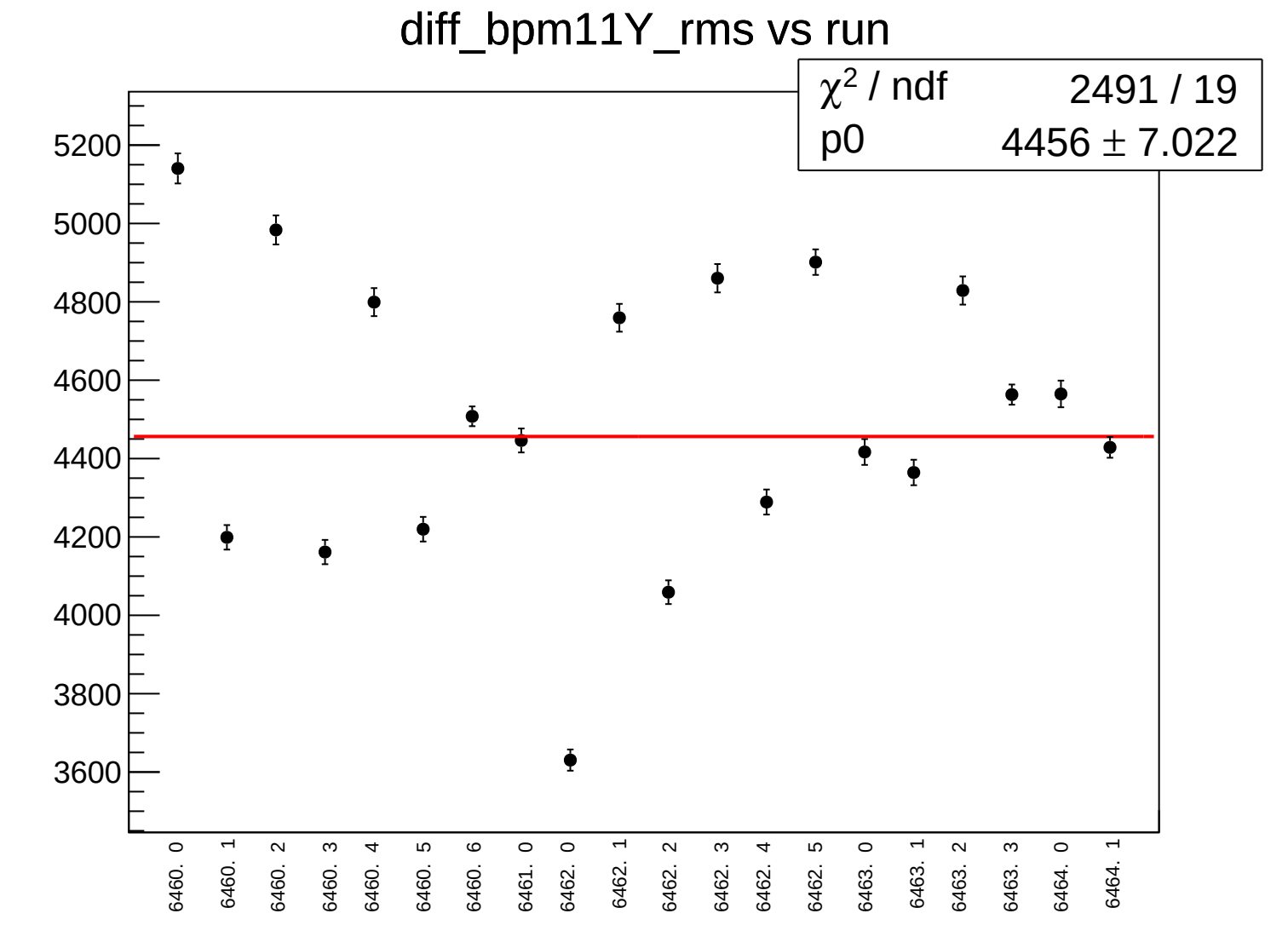

pull
Entries 20
Mean 29.84
Std Dev 0
1
0.5
0
−0.5
−1

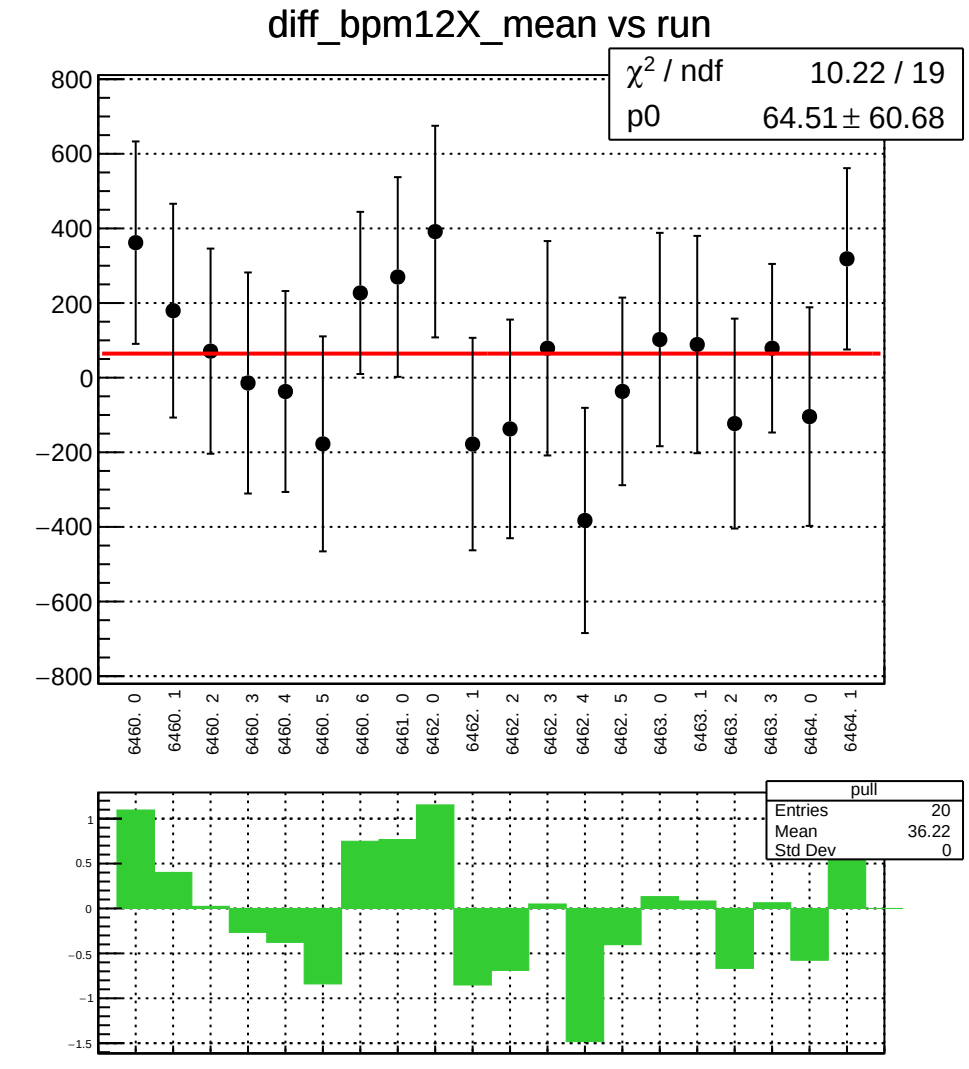

pull1D
Entries 20
Mean −0.02942
Std Dev 0.6838
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

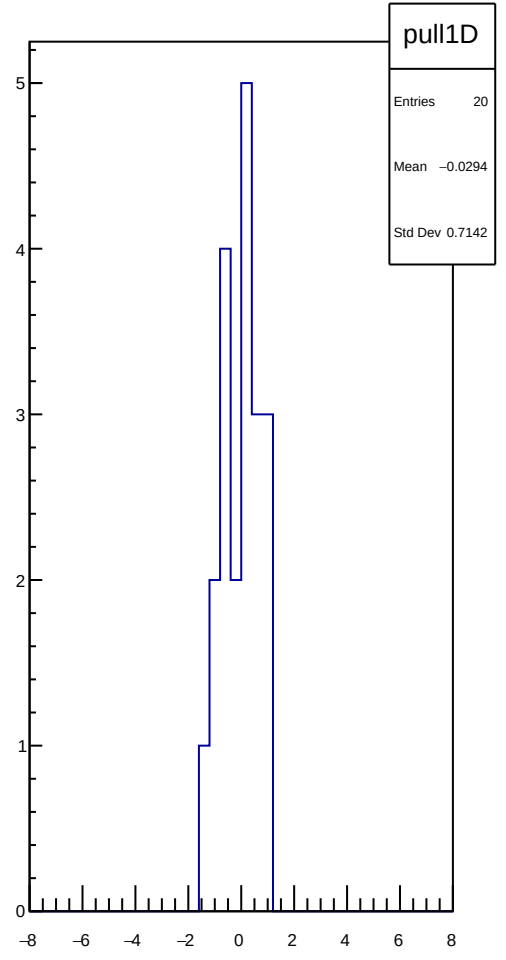

diff_bpm11X_rms vs run
χ² / ndf 371.7 / 19
p0 1.077e+04 ± 16.93
11400
11200
11000
10800
10600
10400
10200
10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

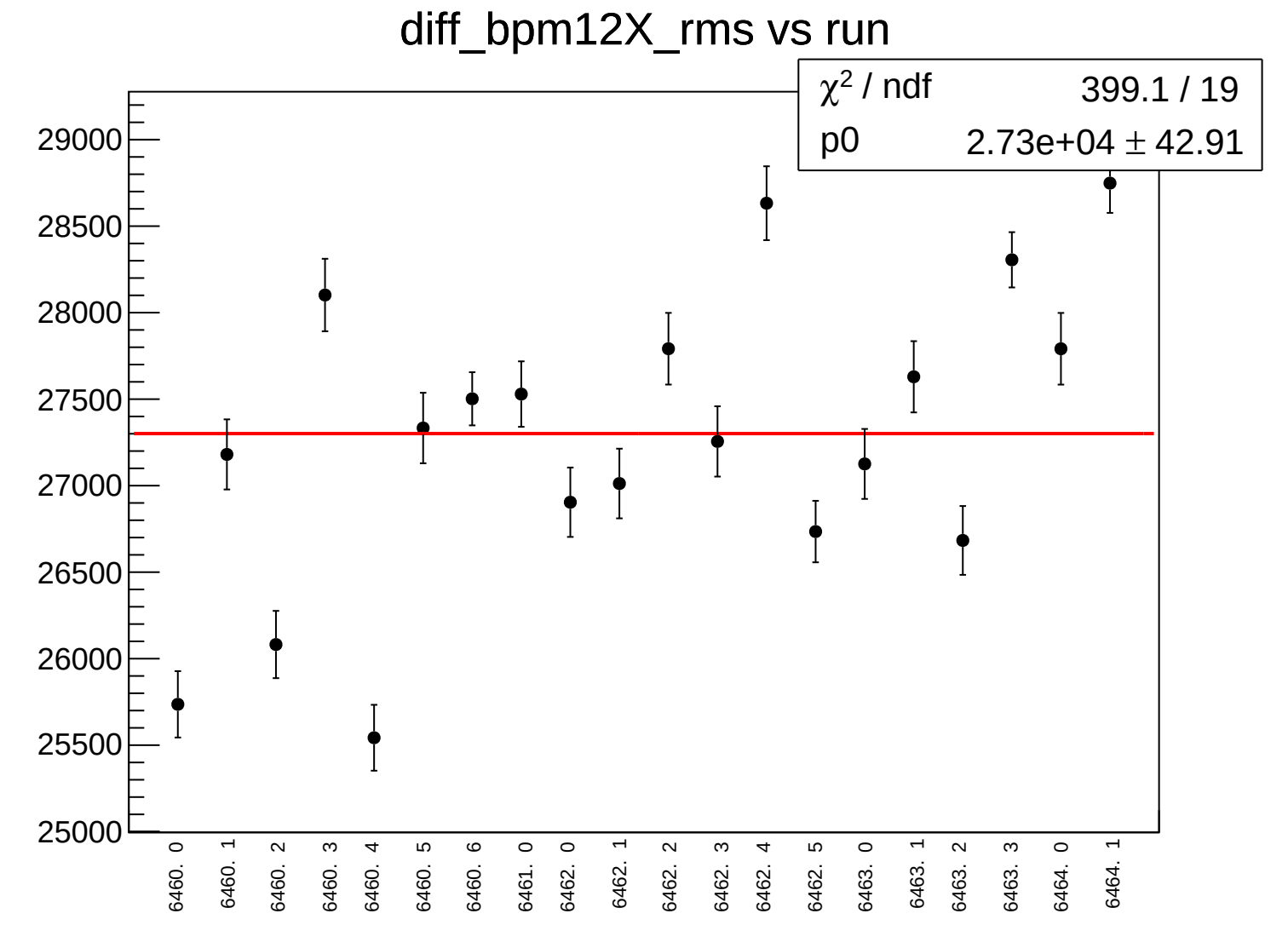

diff_bpm11Y_mean vs run
χ² / ndf 18.07 / 19
p0 6.693 ± 9.931
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −199
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

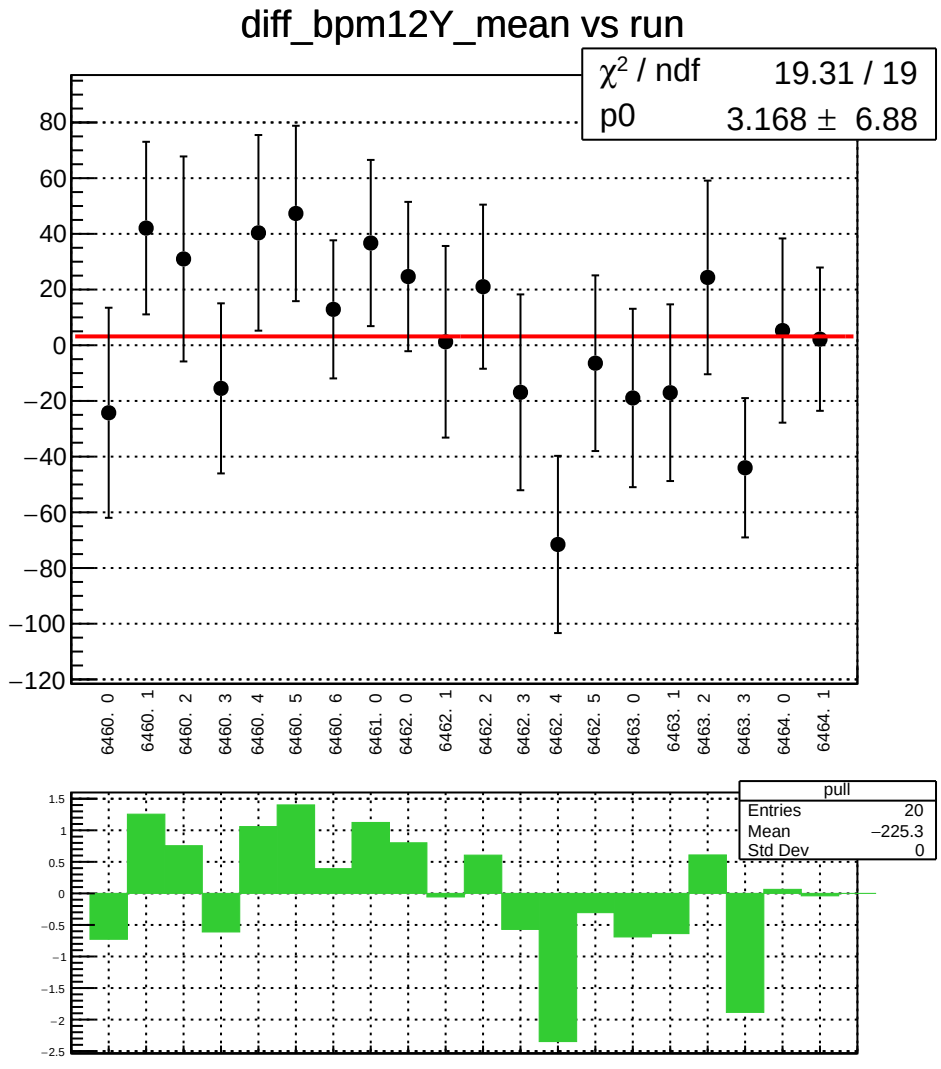

pull1D
Entries 20
Mean 0.01288
Std Dev 0.9504
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

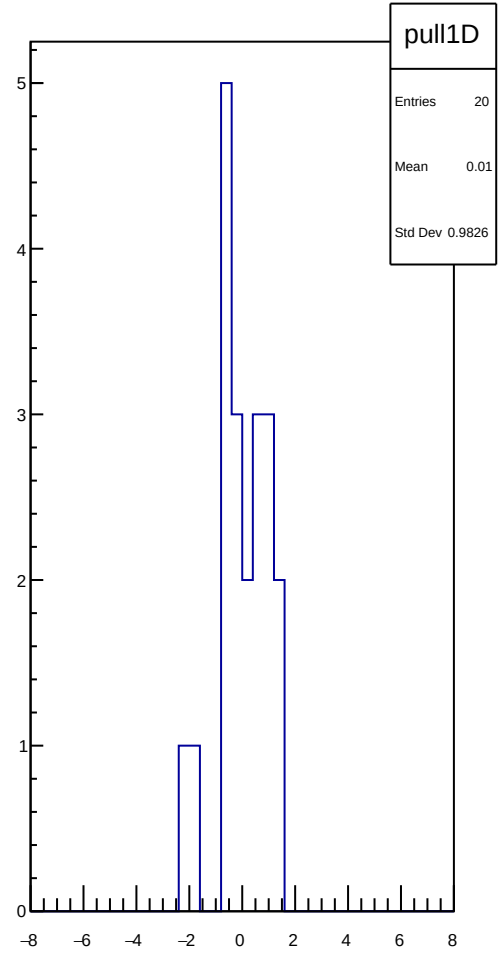

diff_bpm11Y_rms vs run
χ² / ndf 2491 / 19
p0 4456 ± 7.022
5200
5000
4800
4600
4400
4200
4000
3800
3600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

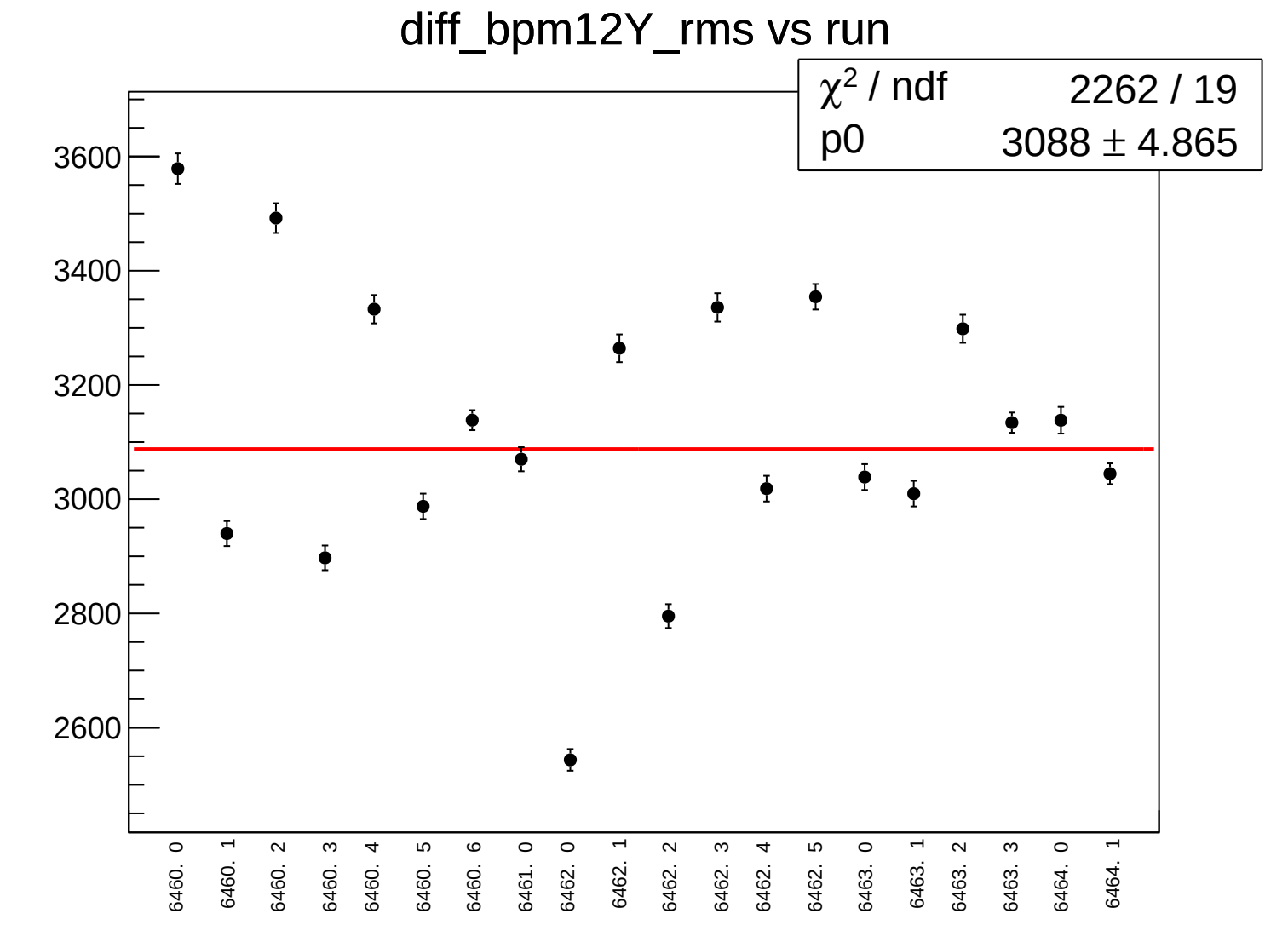

diff_bpm12X_mean vs run
χ² / ndf 10.22 / 19
p0 64.51 ± 60.68
800
600
400
200
0
−200
−400
−600
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.22
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

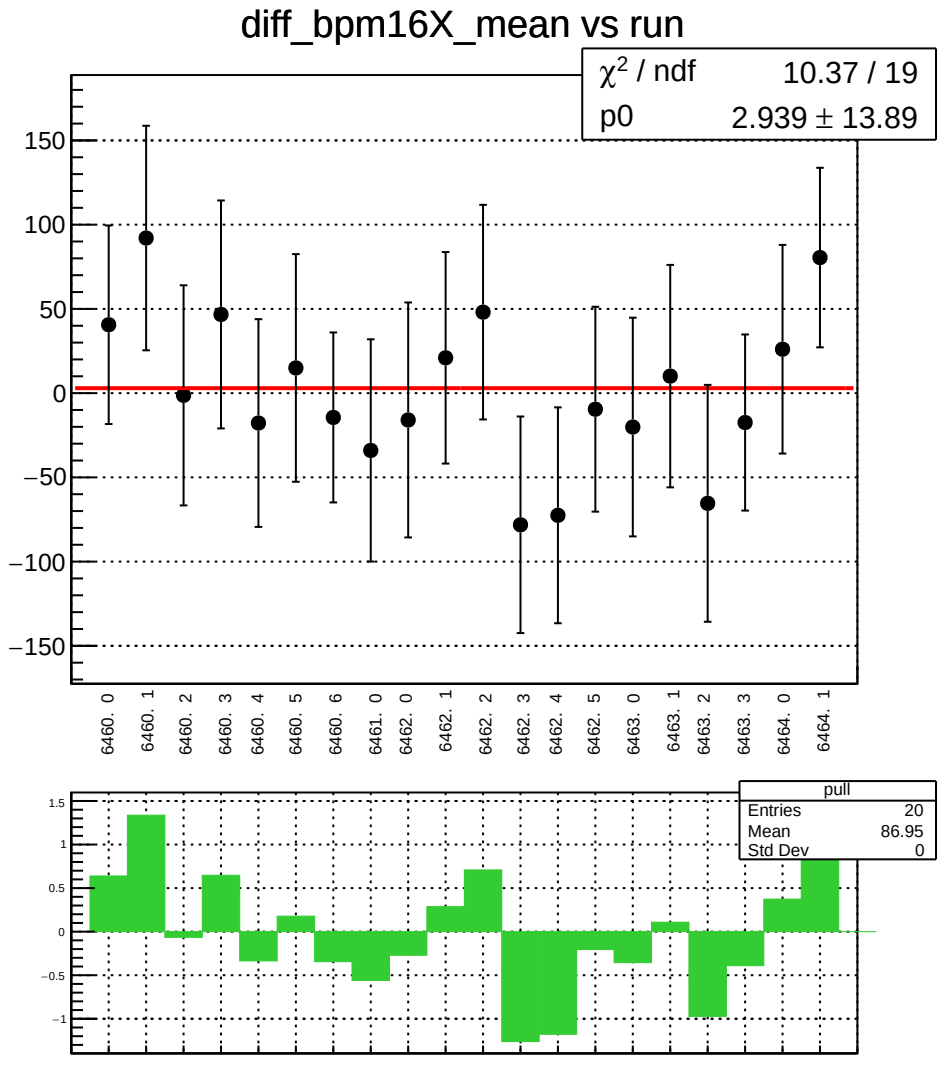

pull1D
Entries 20
Mean −0.0294
Std Dev 0.7142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

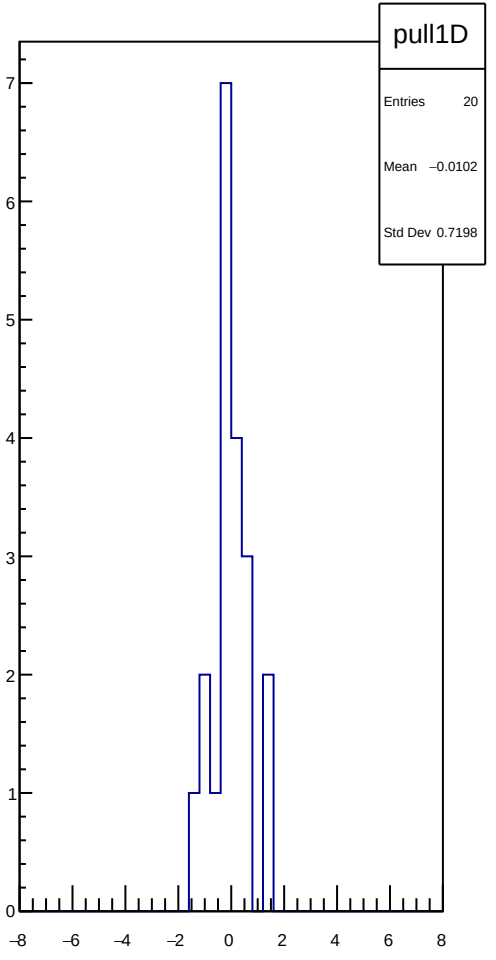

diff_bpm12X_rms vs run
χ² / ndf 399.1 / 19
p0 2.73e+04 ± 42.91
29000
28500
28000
27500
27000
26500
26000
25500
25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

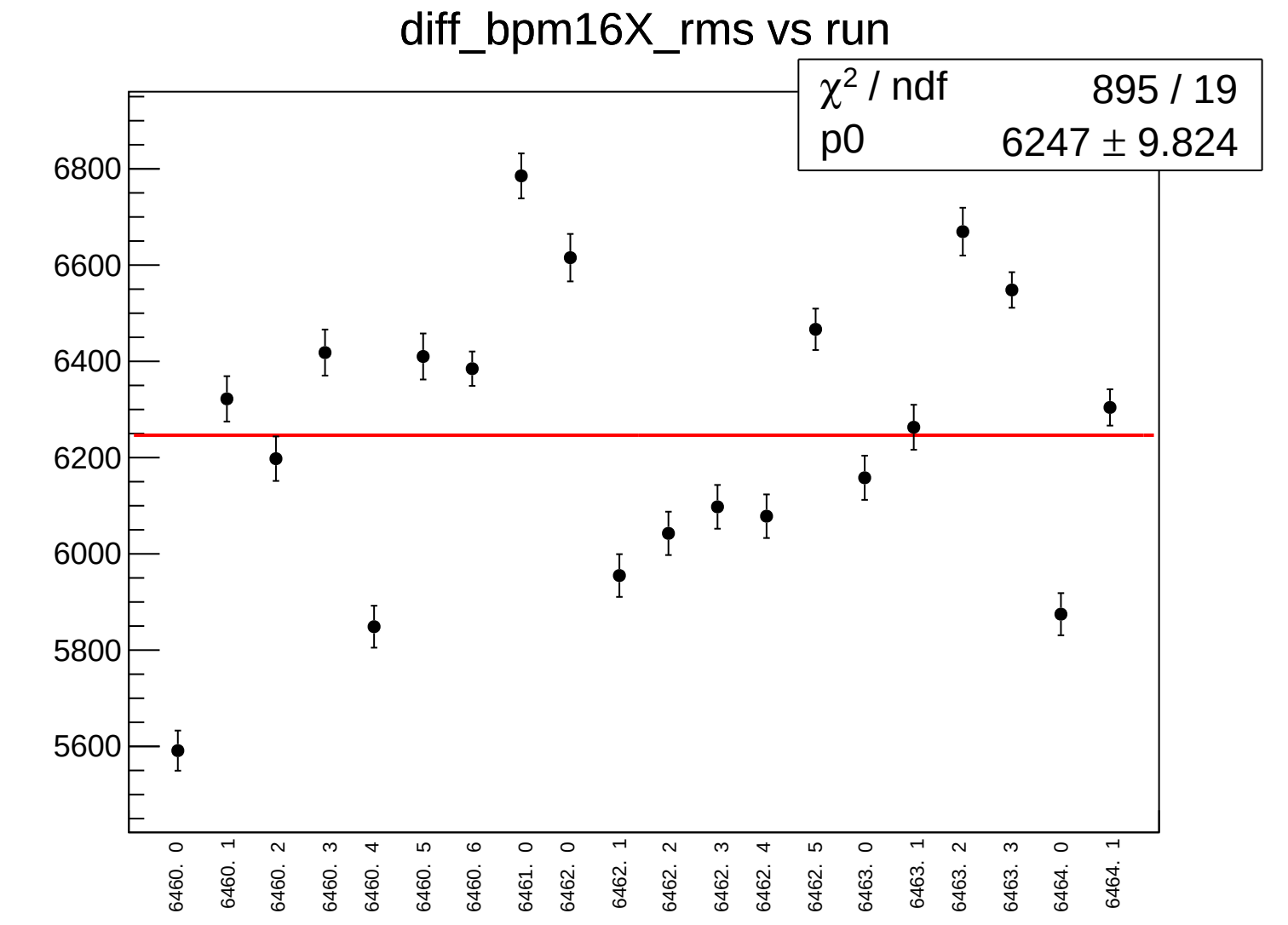

diff_bpm12Y_mean vs run
χ² / ndf 19.31 / 19
p0 3.168 ± 6.88
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −225.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

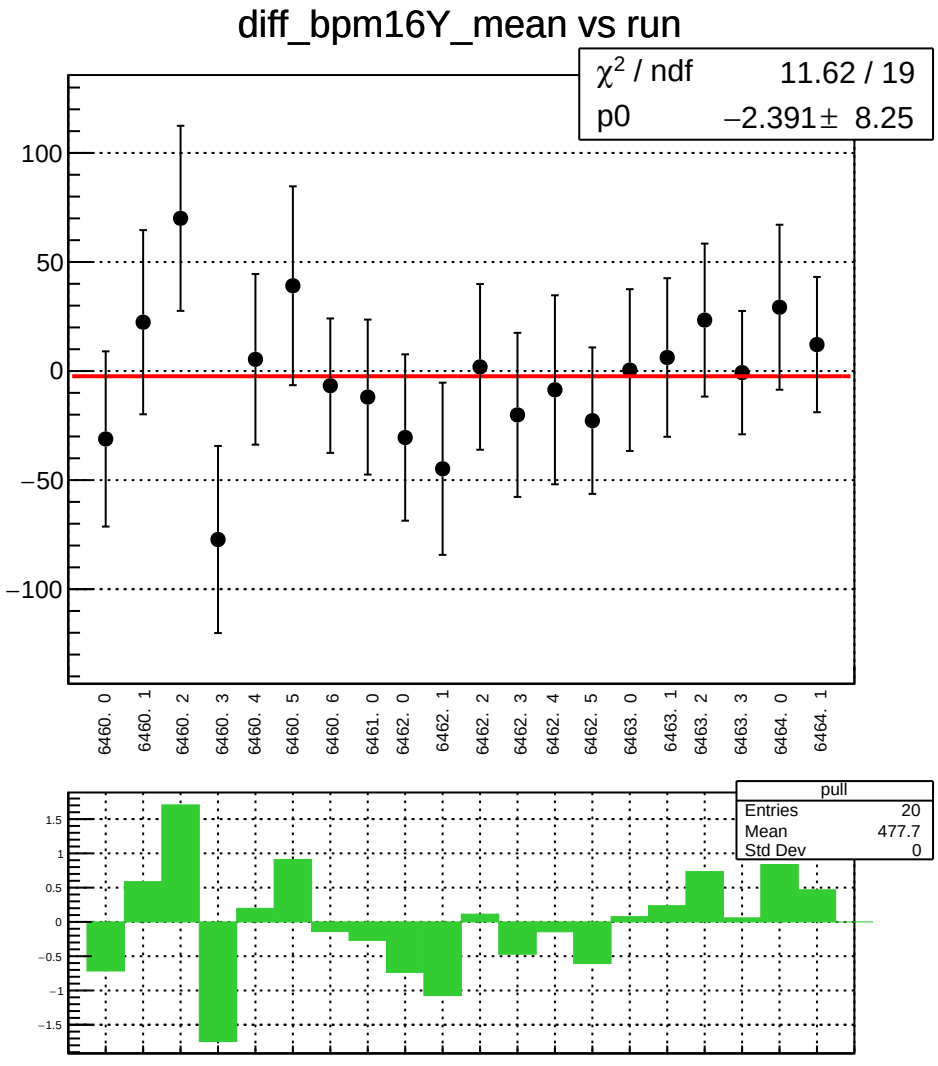

pull1D
Entries 20
Mean 0.01
Std Dev 0.9826
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

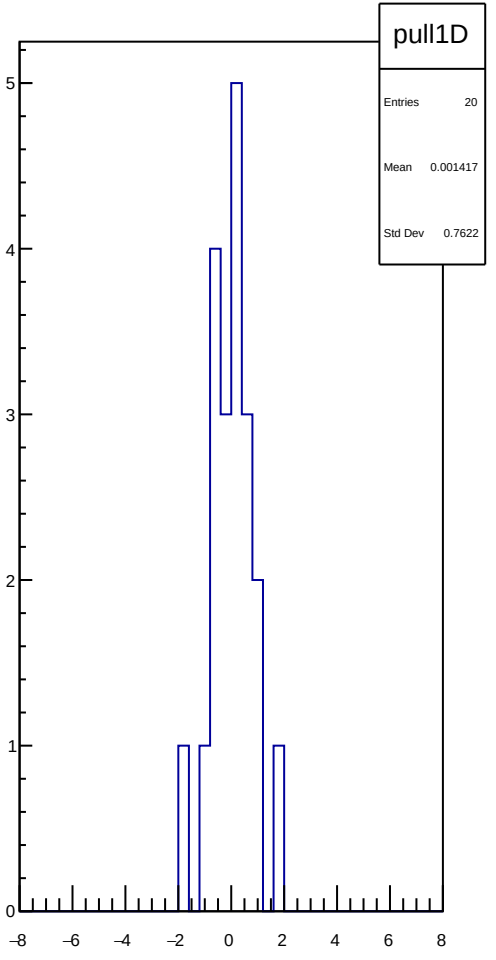

diff_bpm12Y_rms vs run
χ² / ndf 2262 / 19
p0 3088 ± 4.865
3600
3400
3200
3000
2800
2600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

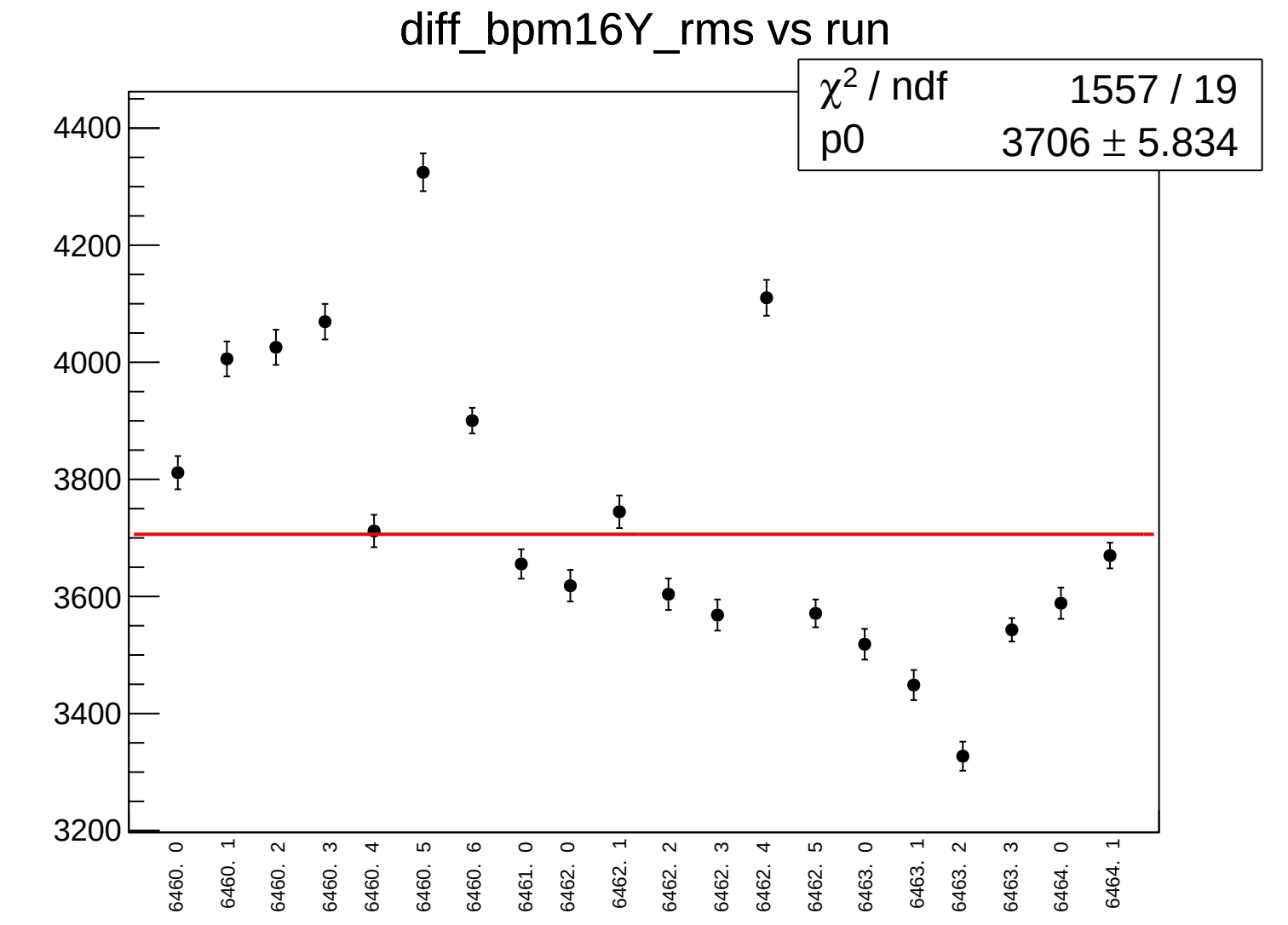

diff_bpm16X_mean vs run
χ² / ndf 10.37 / 19
p0 2.939 ± 13.89
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1

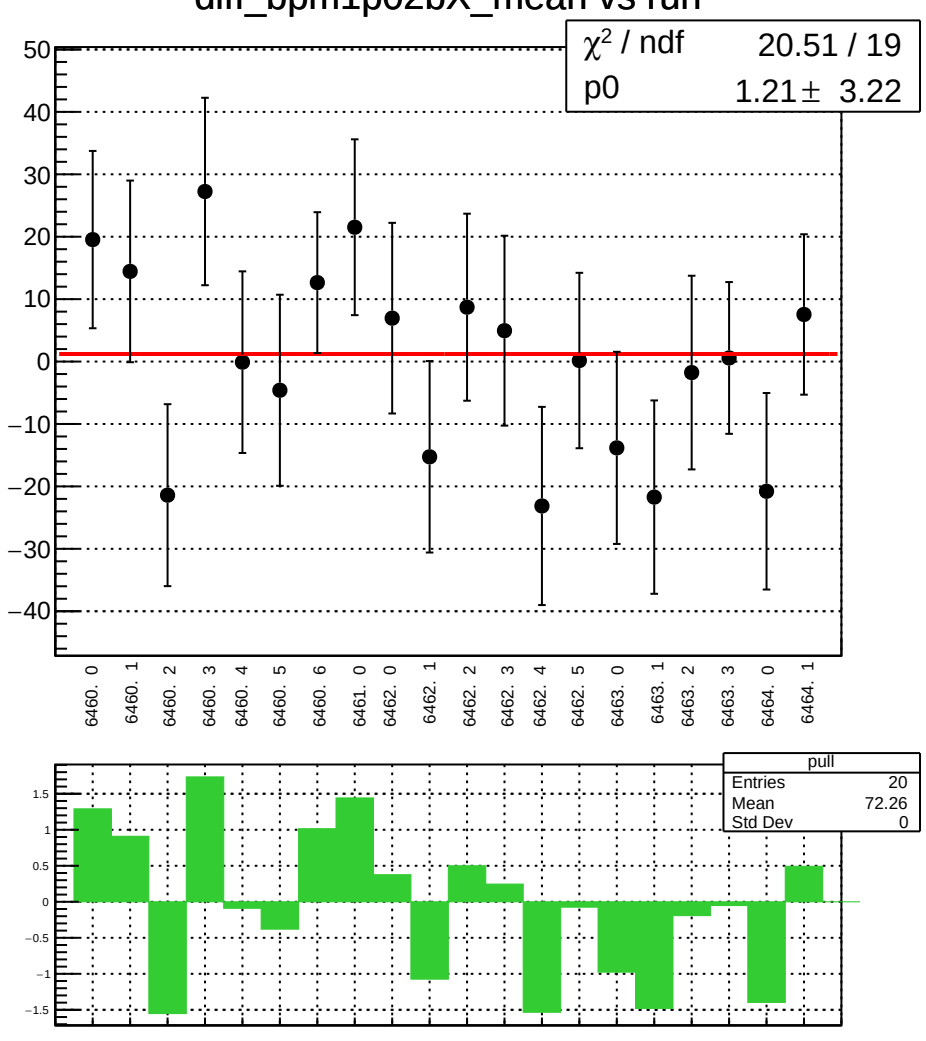

pull1D
Entries 20
Mean −0.0102
Std Dev 0.7198
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

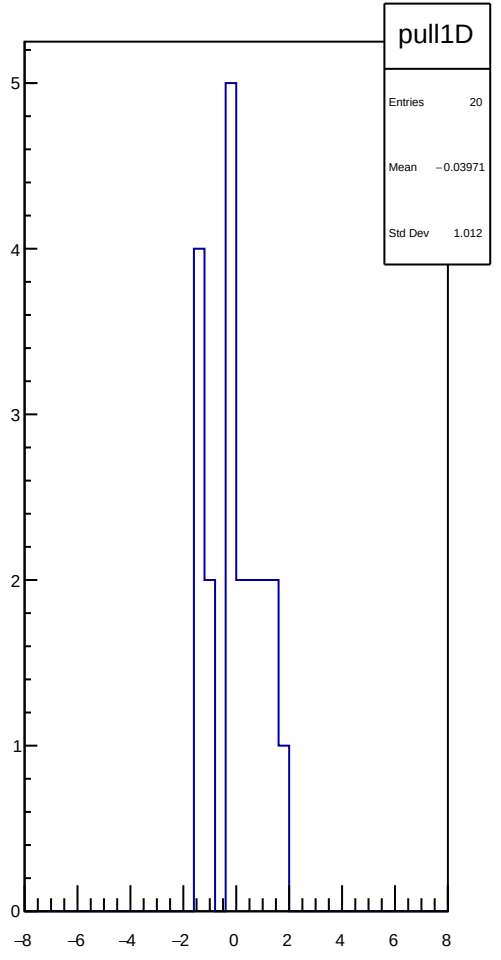

diff_bpm16X_rms vs run
χ² / ndf 895 / 19
p0 6247 ± 9.824
6800
6600
6400
6200
6000
5800
5600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

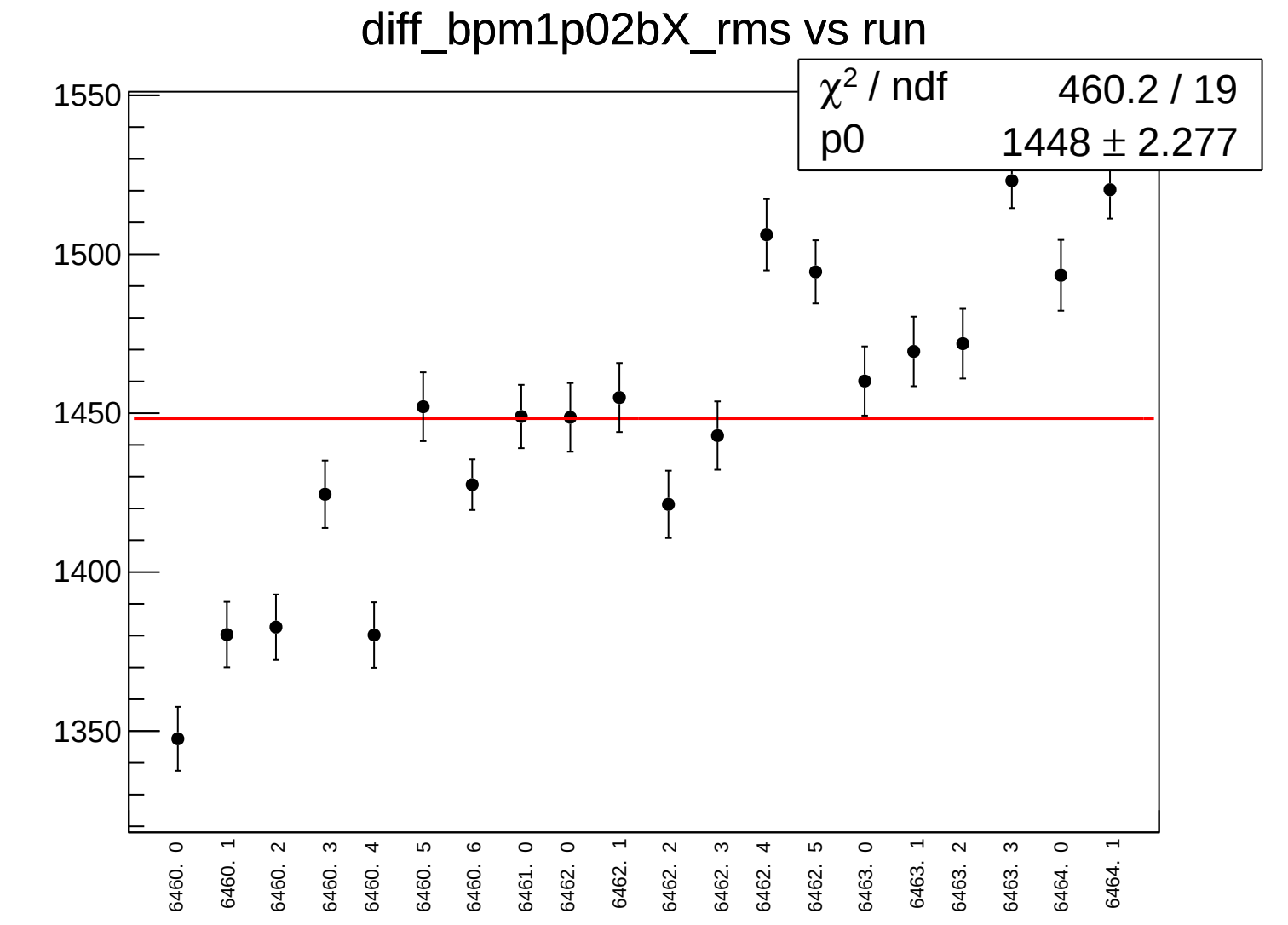

diff_bpm16Y_mean vs run
χ² / ndf 11.62 / 19
p0 −2.391 ± 8.25
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 477.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

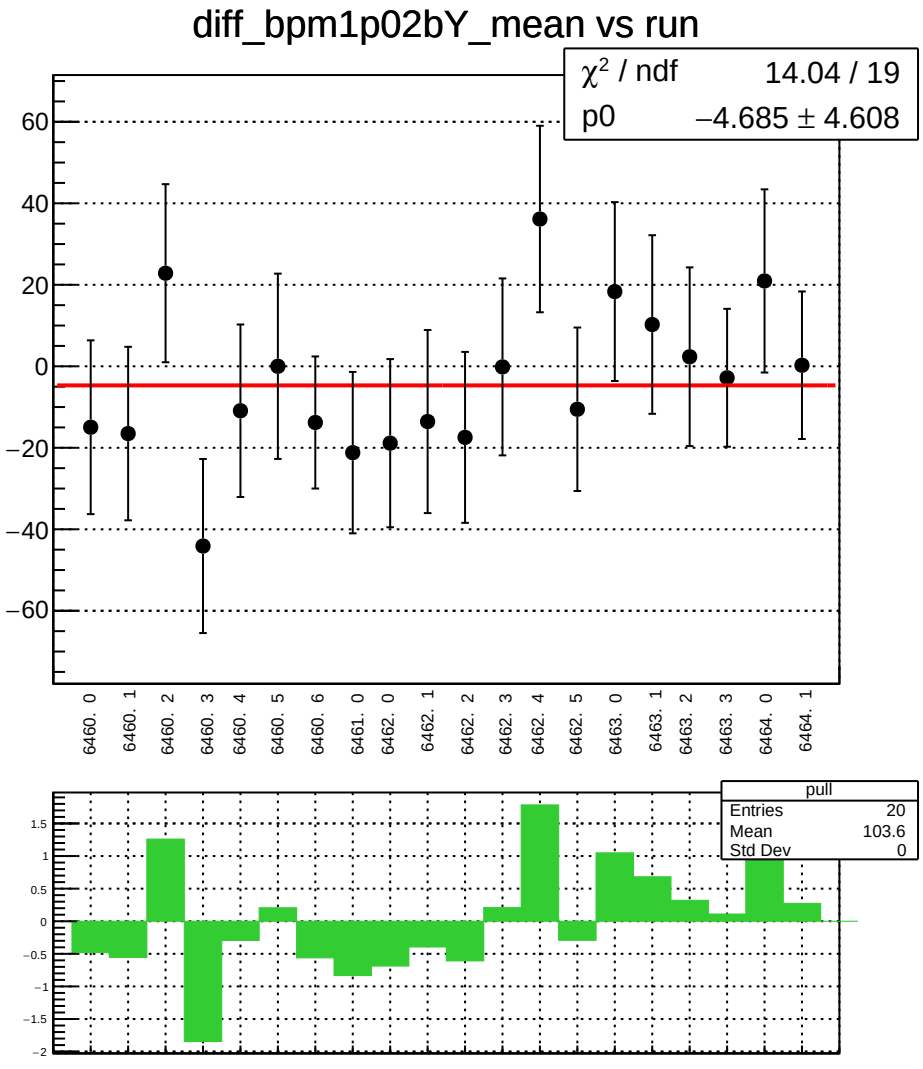

pull1D
Entries 20
Mean 0.001417
Std Dev 0.7622
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

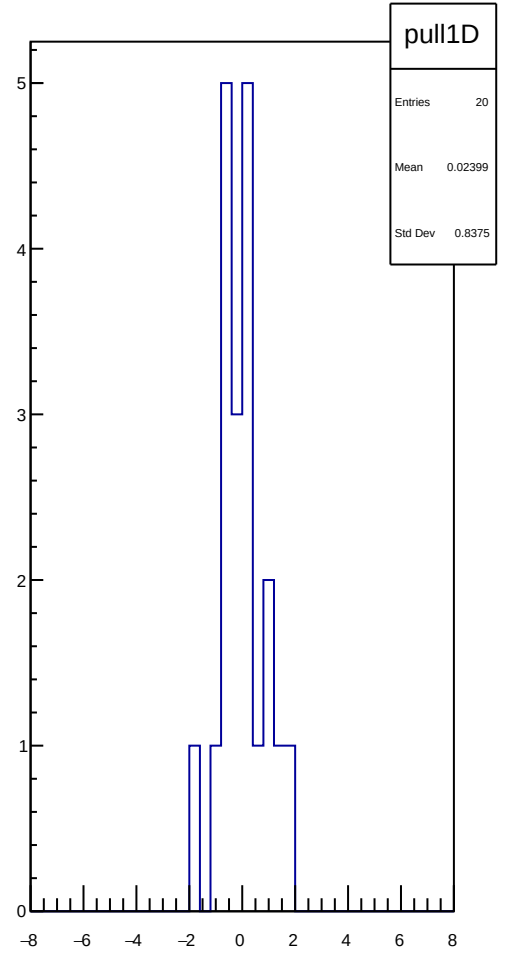

diff_bpm16Y_rms vs run
χ² / ndf 1557 / 19
p0 3706 ± 5.834
4400
4200
4000
3800
3600
3400
3200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

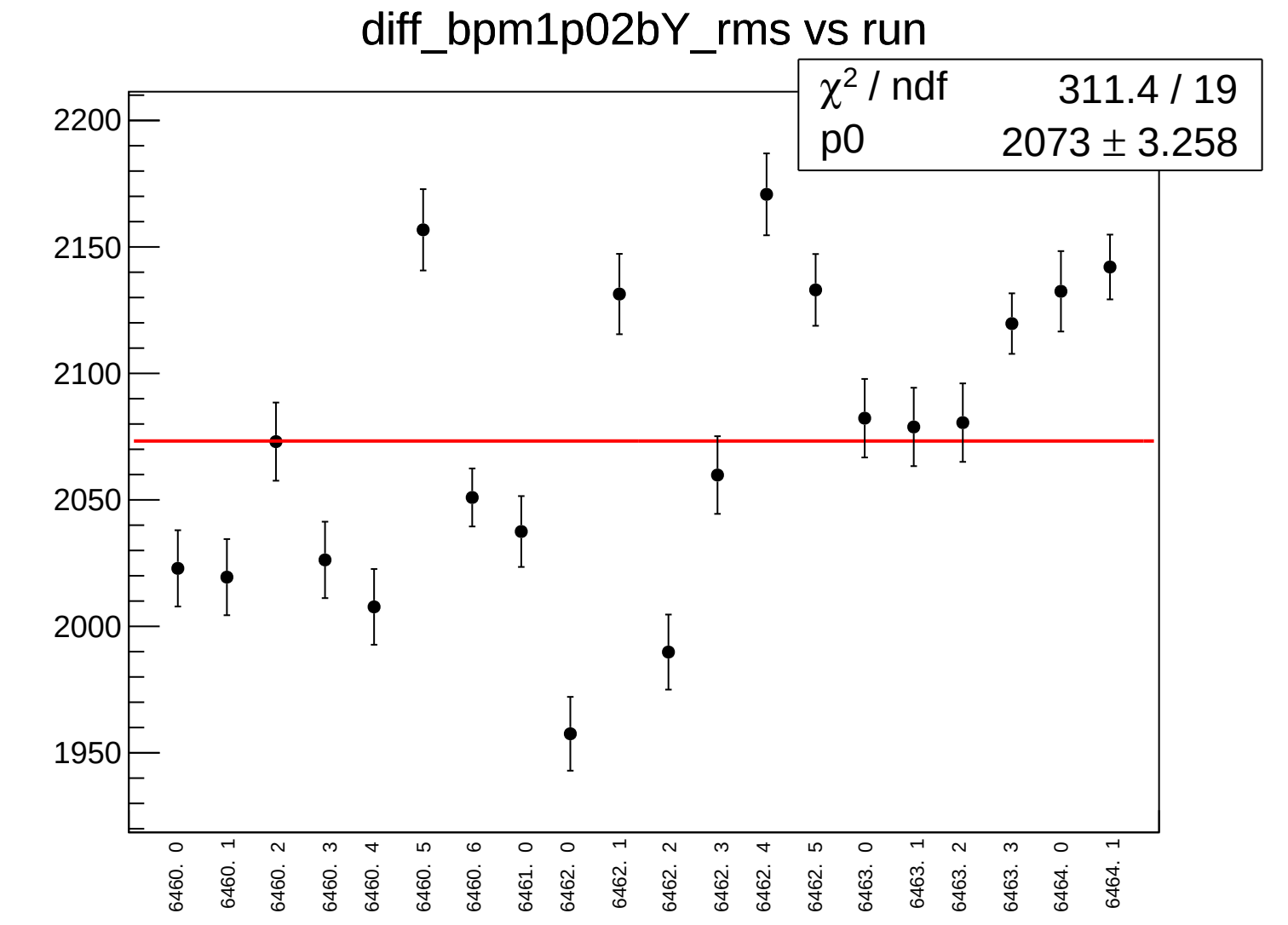

diff_bpm1p02bX_mean vs run
χ² / ndf 20.51 / 19
p0 1.21± 3.22
50
40
30
20
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 72.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

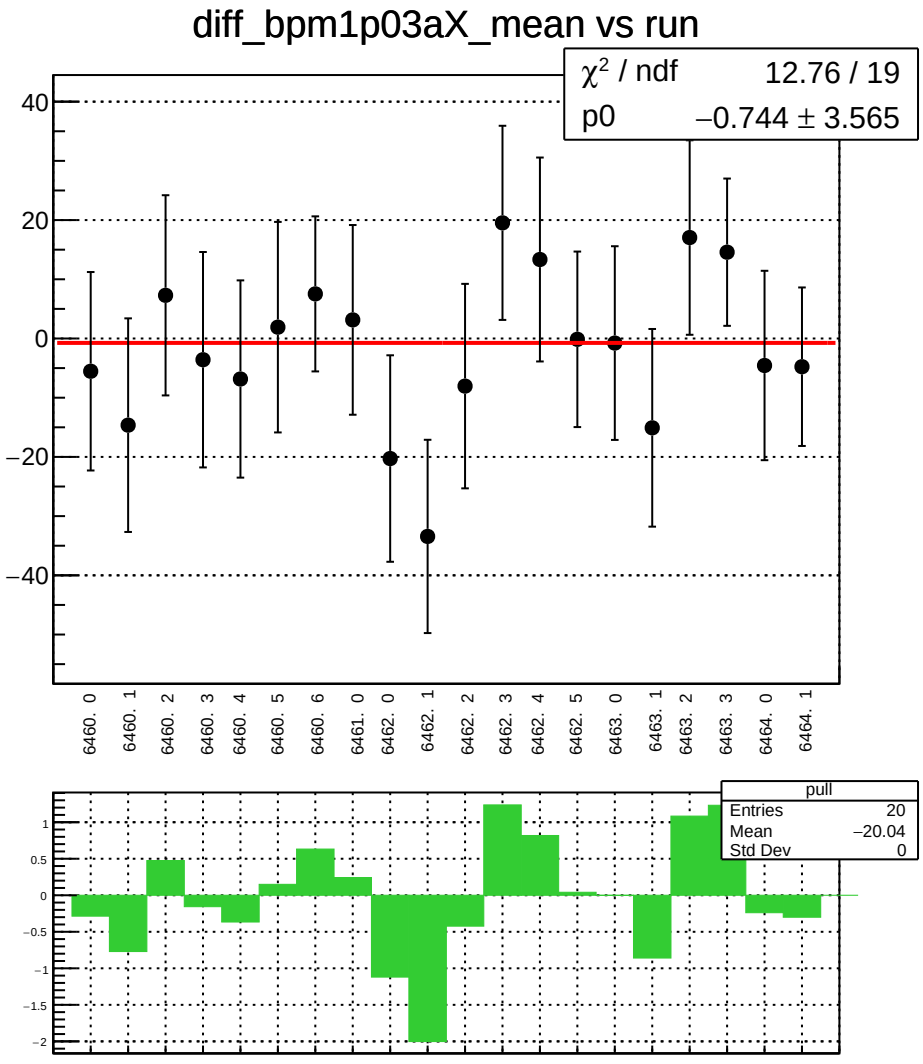

pull1D
Entries 20
Mean −0.03971
Std Dev 1.012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

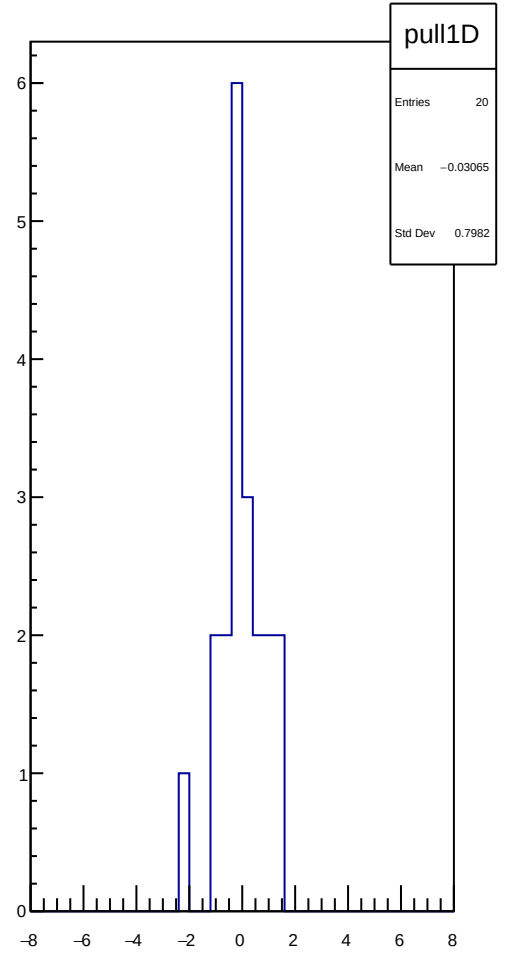

diff_bpm1p02bX_rms vs run
χ² / ndf 460.2 / 19
p0 1448 ± 2.277
1550
1500
1450
1400
1350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

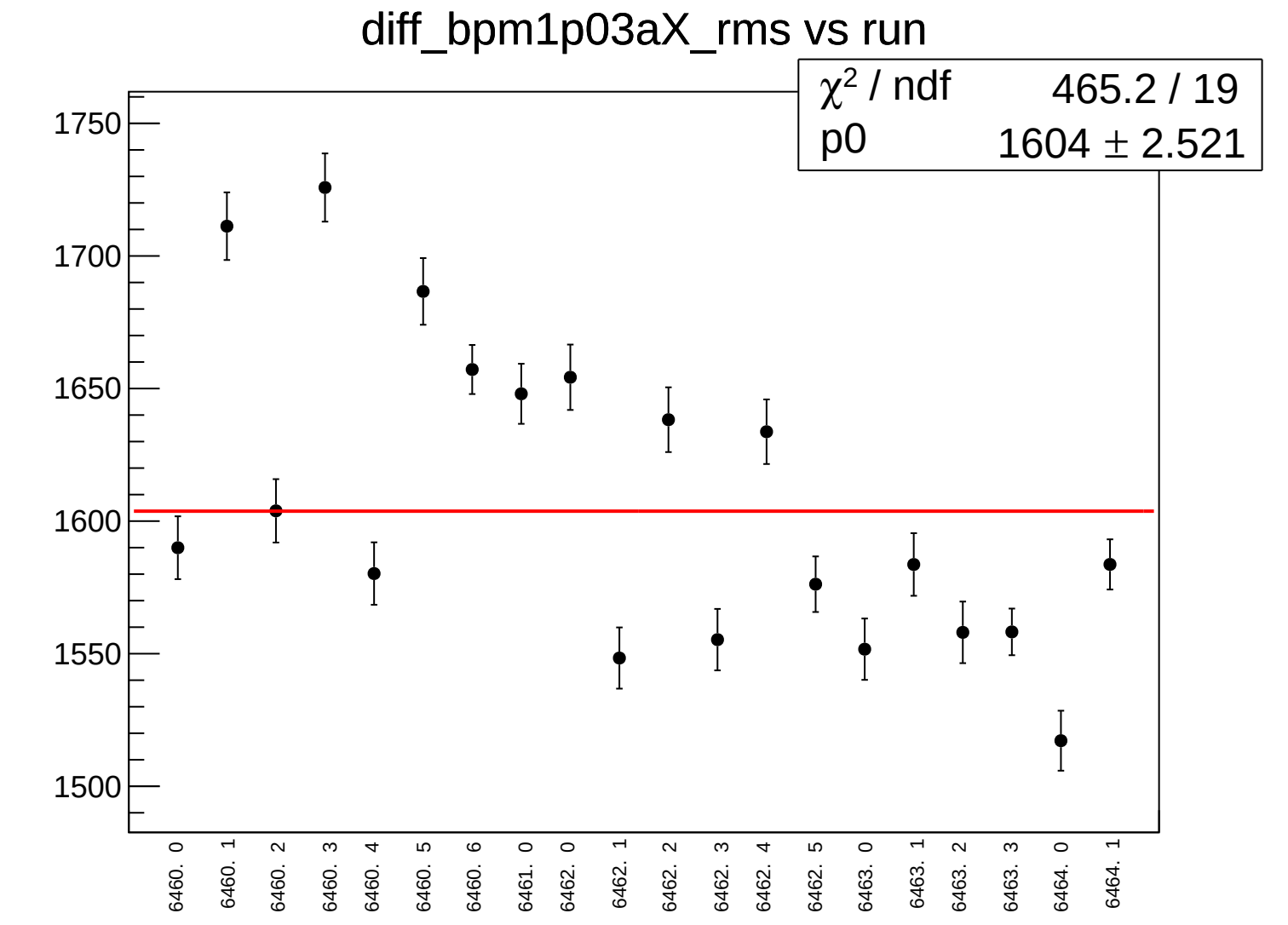

diff_bpm1p02bY_mean vs run
χ² / ndf 14.04 / 19
p0 −4.685 ± 4.608
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 103.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

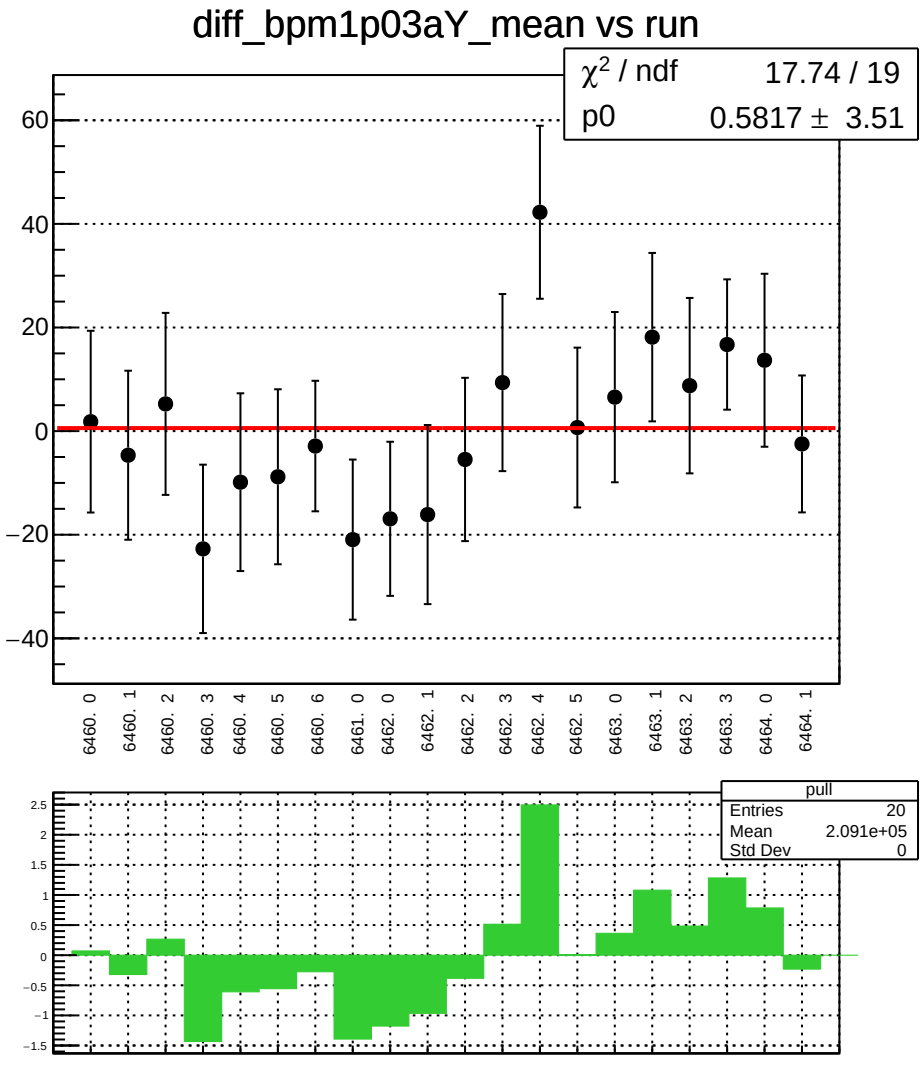

pull1D
Entries 20
Mean 0.02399
Std Dev 0.8375
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

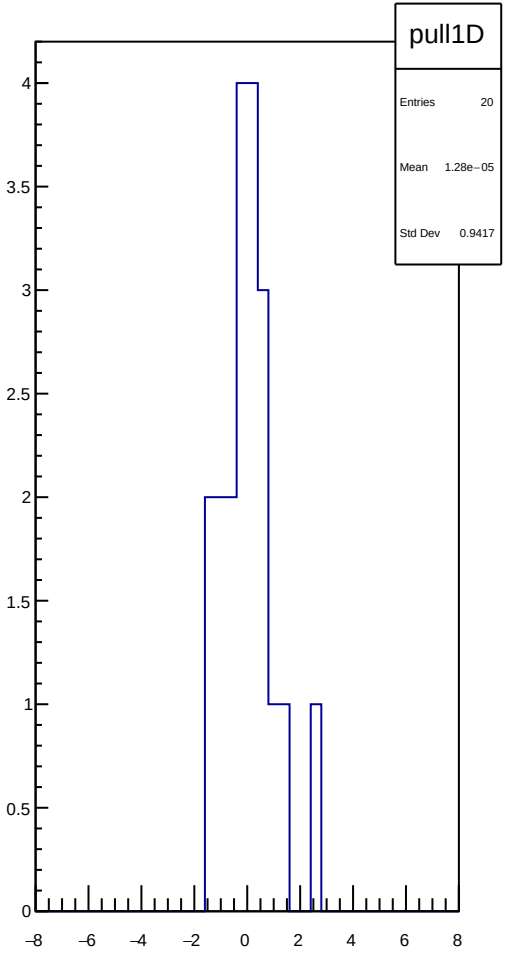

diff_bpm1p02bY_rms vs run
χ² / ndf 311.4 / 19
p0 2073 ± 3.258
2200
2150
2100
2050
2000
1950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

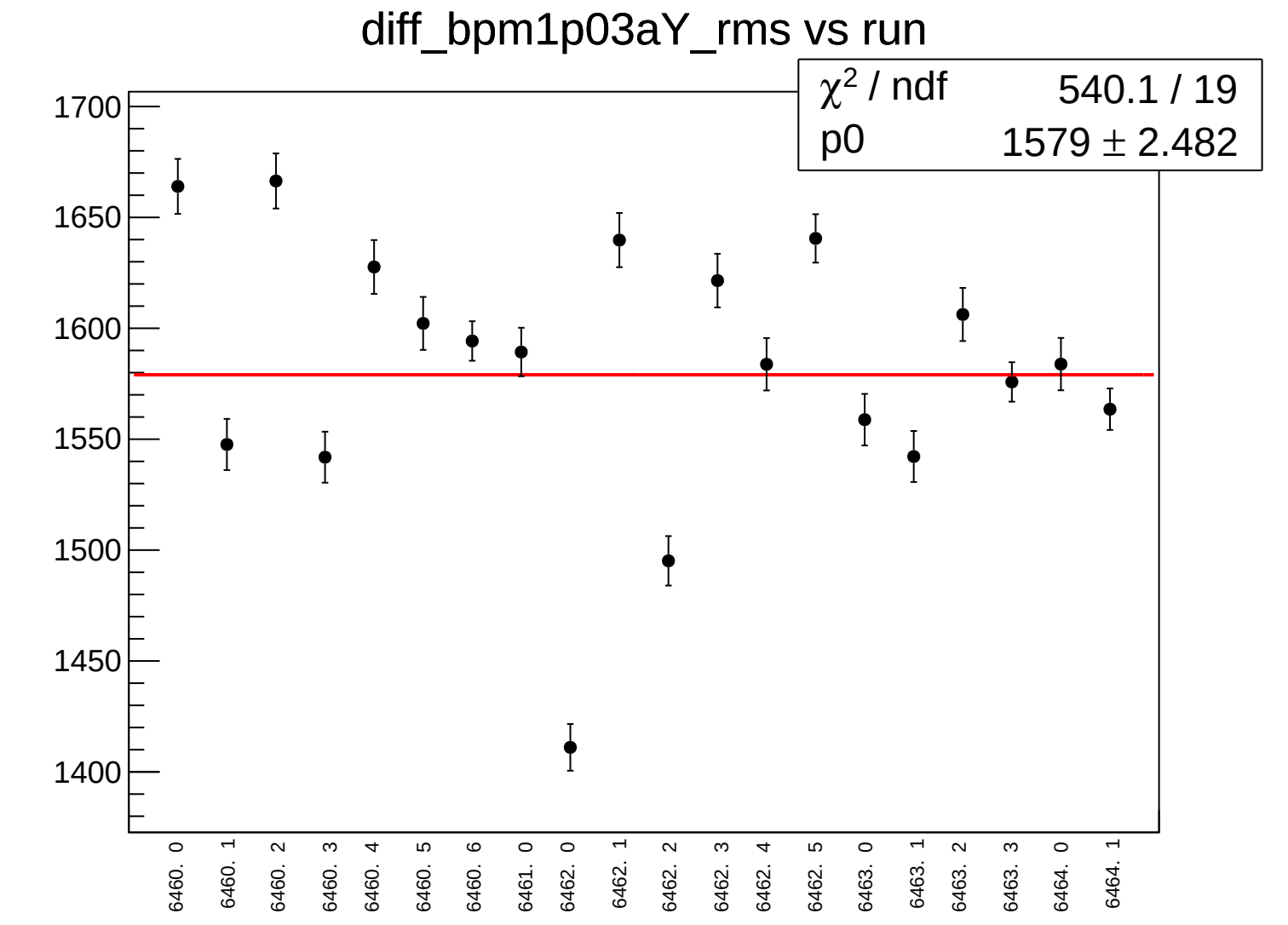

diff_bpm1p03aX_mean vs run
χ² / ndf 12.76 / 19
p0 −0.744 ± 3.565
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −20.04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

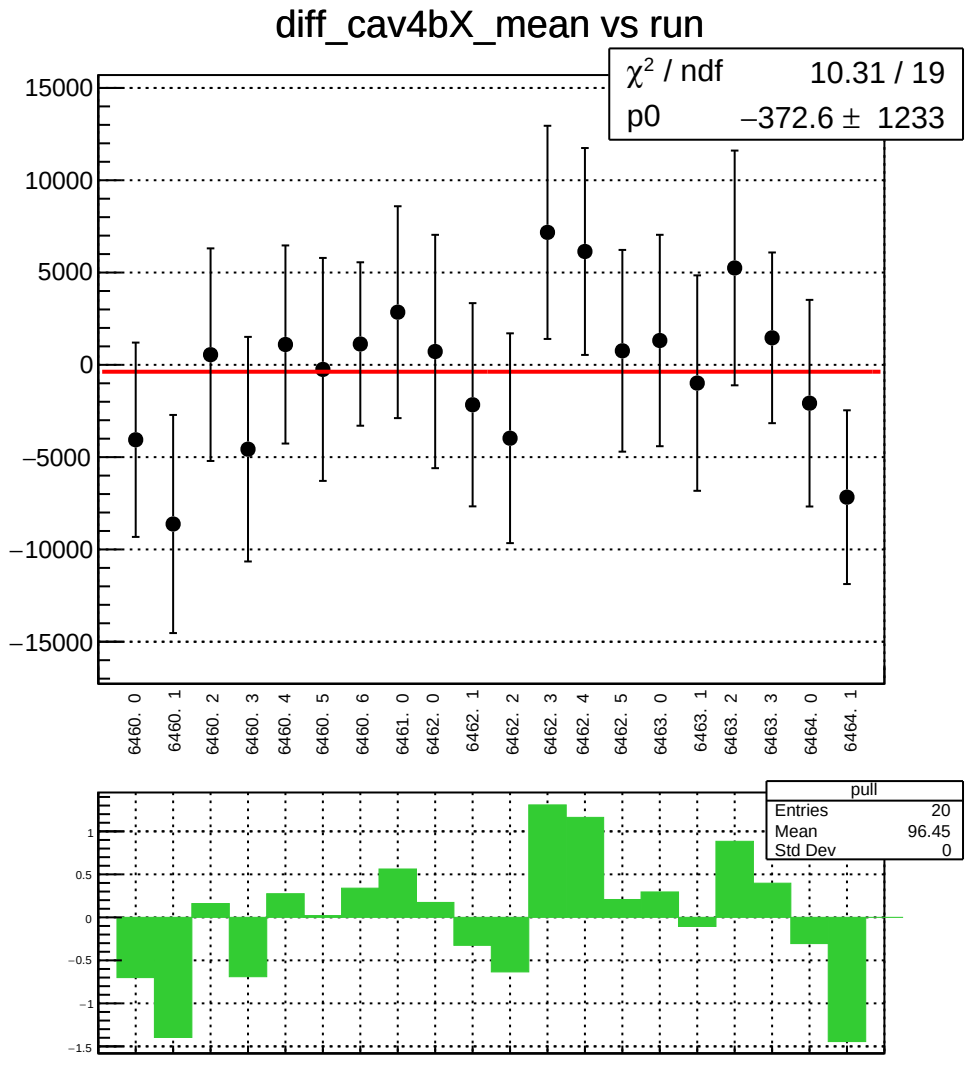

pull1D
Entries 20
Mean −0.03065
Std Dev 0.7982
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

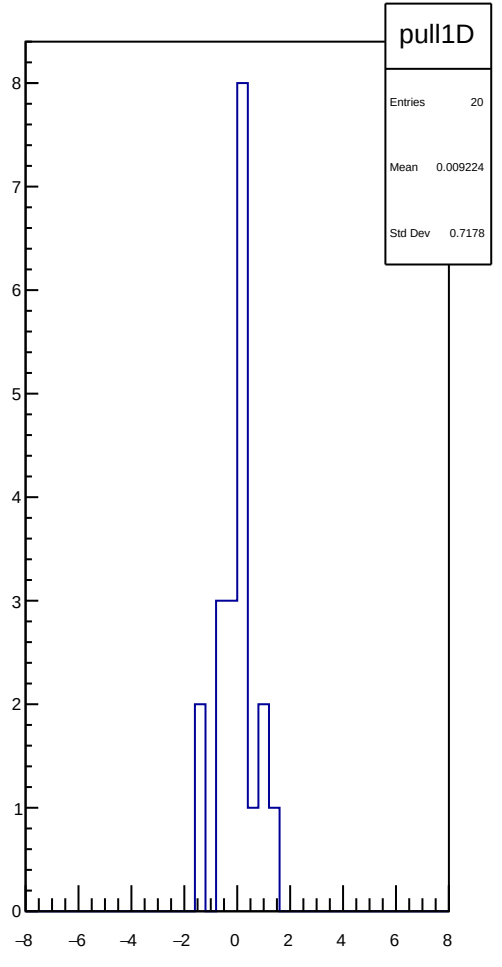

diff_bpm1p03aX_rms vs run
χ² / ndf 465.2 / 19
p0 1604 ± 2.521
1750
1700
1650
1600
1550
1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

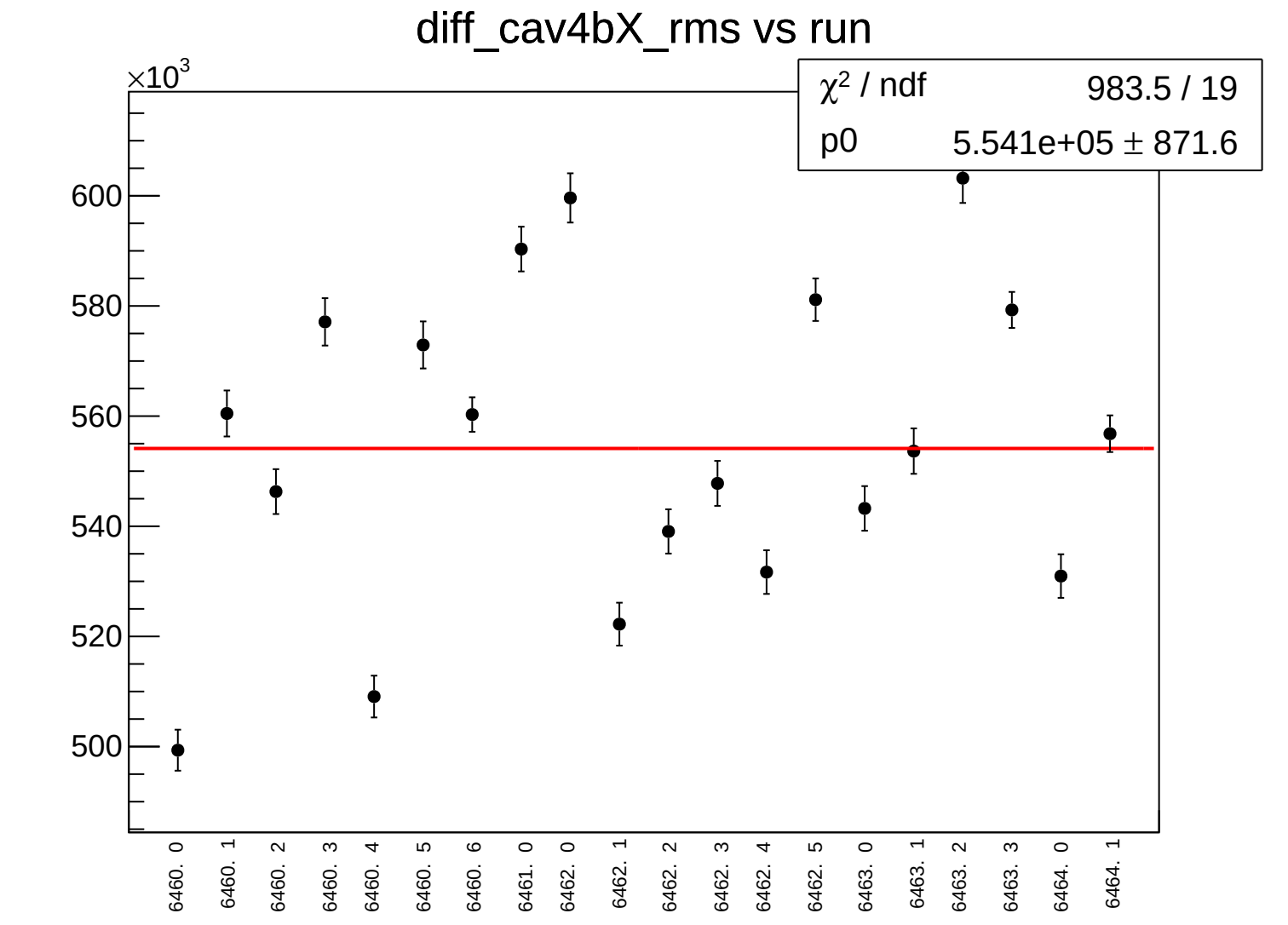

diff_bpm1p03aY_mean vs run
χ² / ndf 17.74 / 19
p0 0.5817 ± 3.51
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.091e+05
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

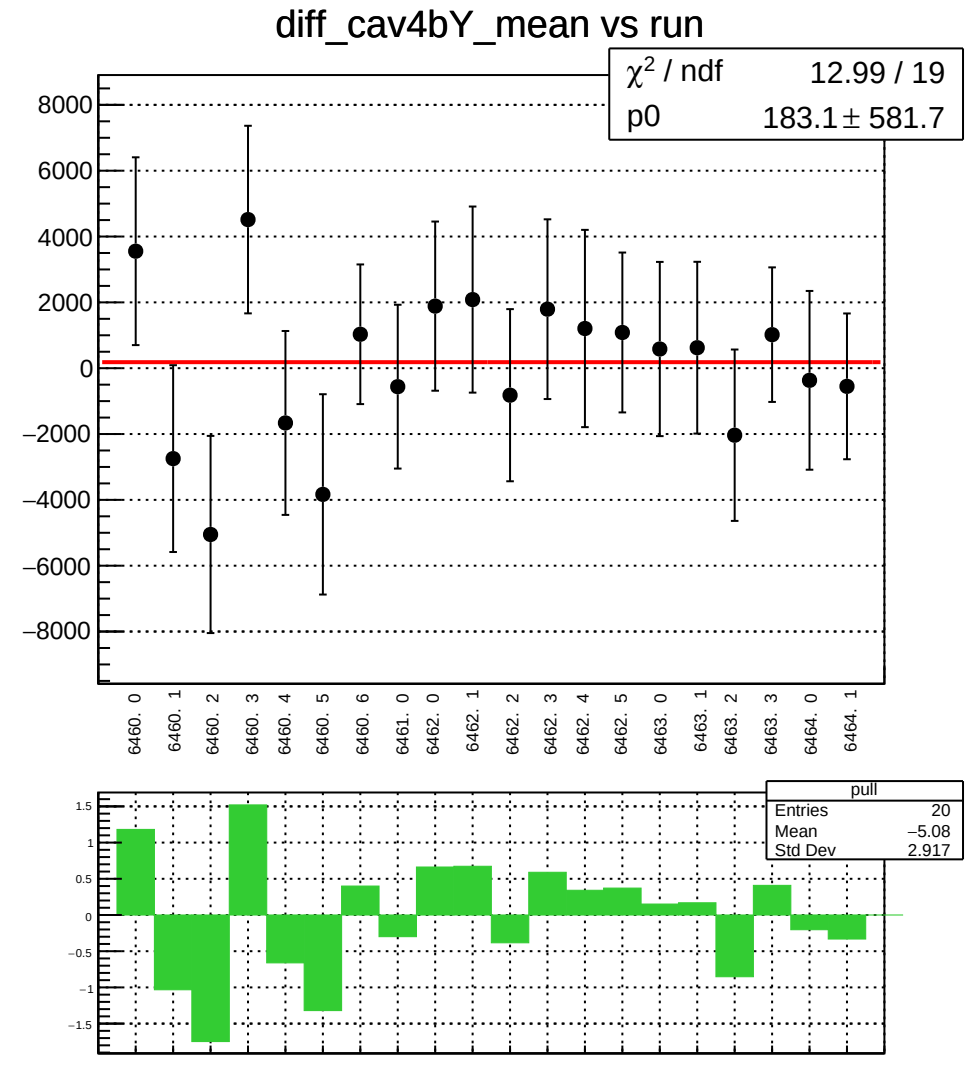

pull1D
Entries 20
Mean 1.28e−05
Std Dev 0.9417
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

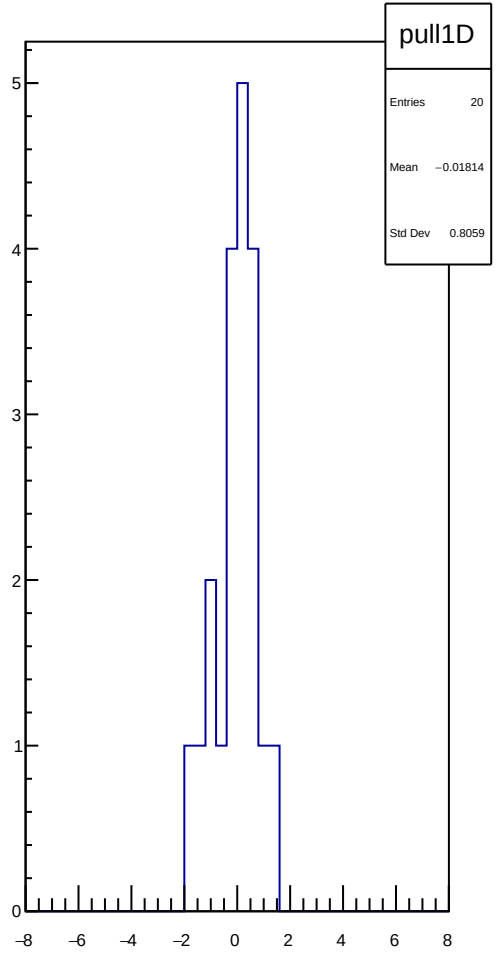

diff_bpm1p03aY_rms vs run
χ² / ndf 540.1 / 19
p0 1579 ± 2.482
1700
1650
1600
1550
1500
1450
1400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

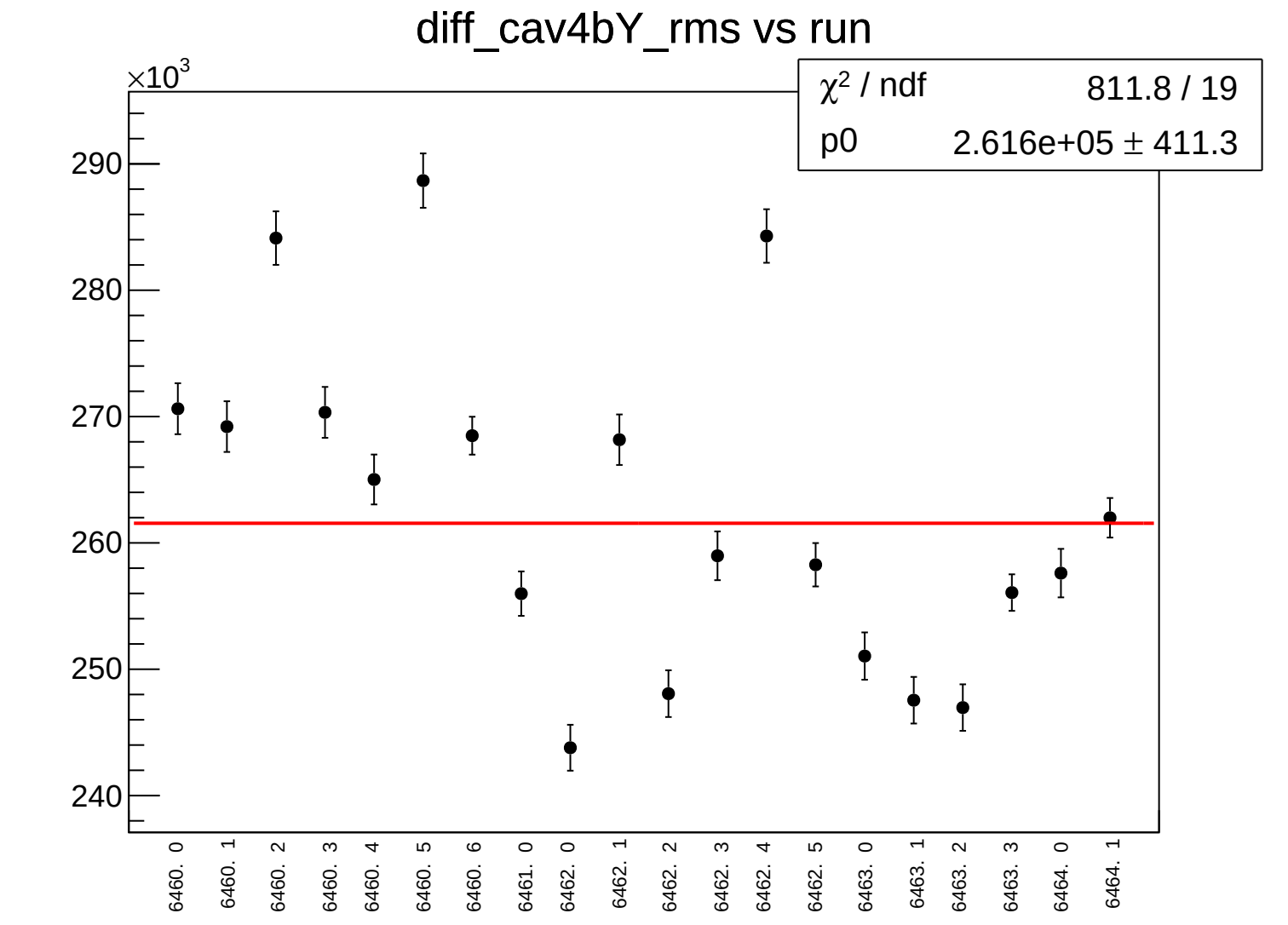

diff_cav4bX_mean vs run
χ² / ndf 10.31 / 19
p0 −372.6 ± 1233
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 96.45
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

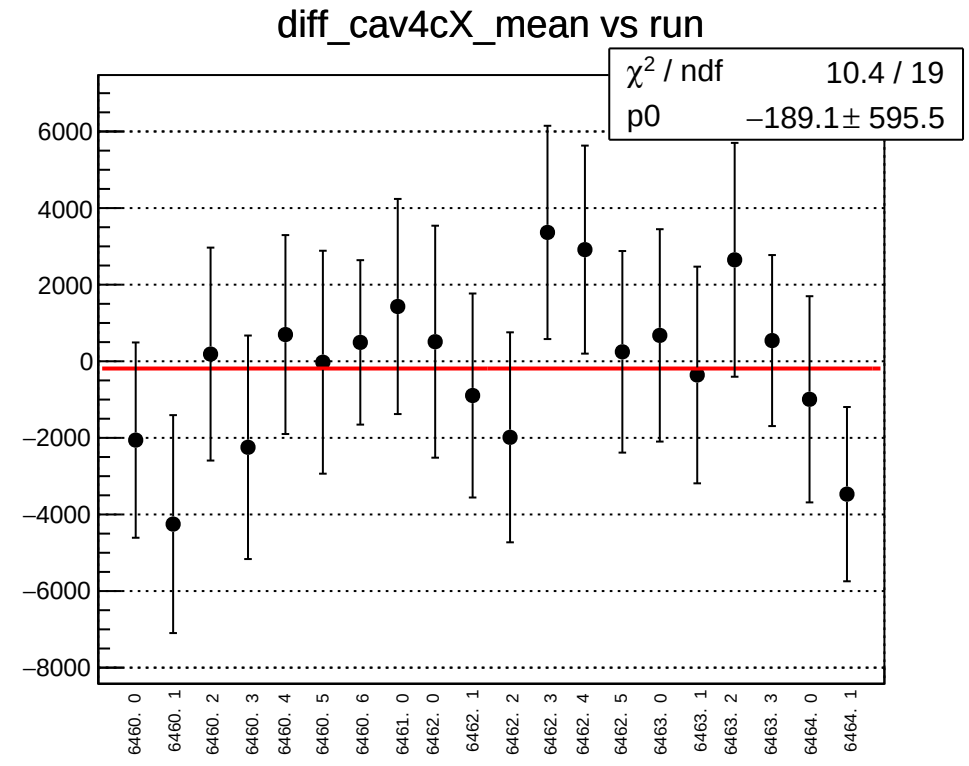

pull1D
Entries 20
Mean 0.009224
Std Dev 0.7178
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

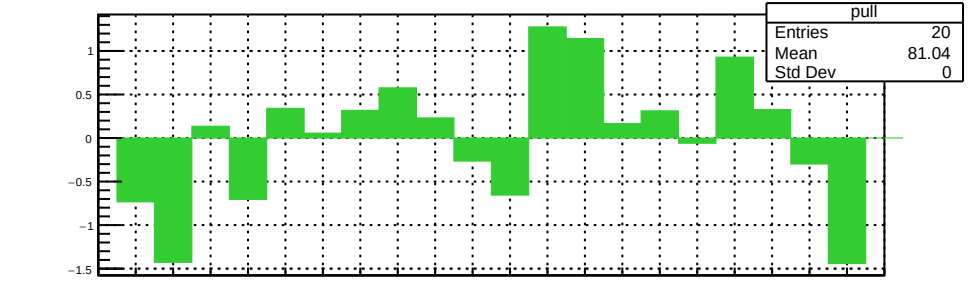

diff_cav4bX_rms vs run
×10^3
χ² / ndf 983.5 / 19
p0 5.541e+05 ± 871.6
600
580
560
540
520
500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

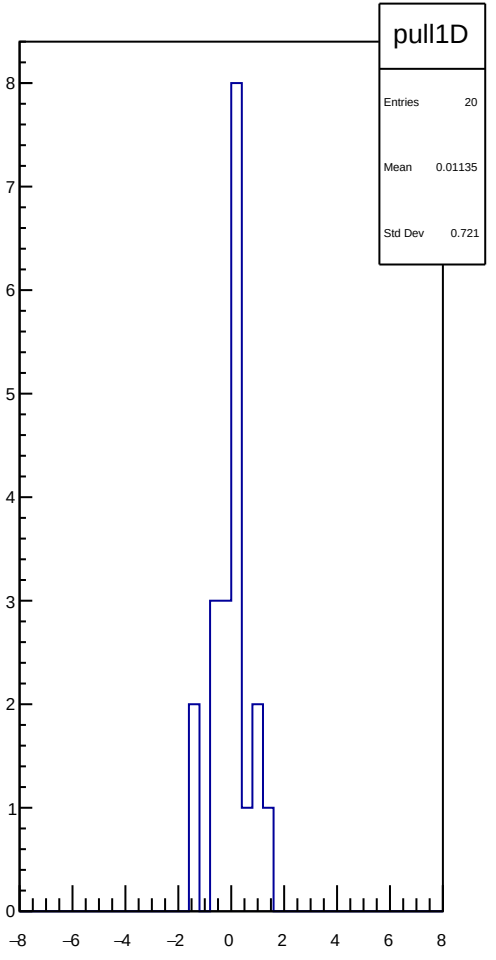

diff_cav4bY_mean vs run
χ² / ndf 12.99 / 19
p0 183.1 ± 581.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −5.08
Std Dev 2.917
1.5
1
0.5
0
−0.5
−1
−1.5

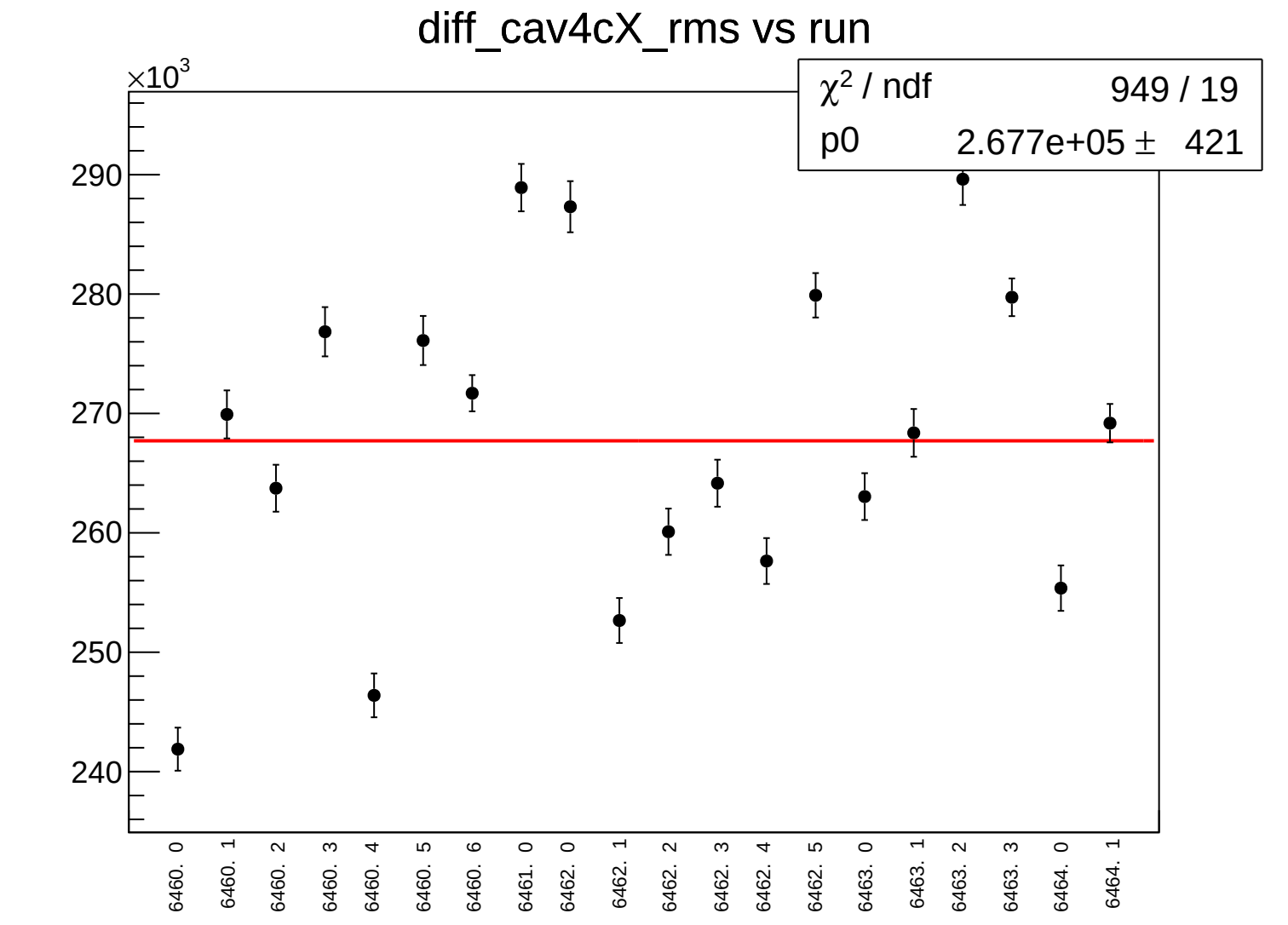

pull1D
Entries 20
Mean −0.01814
Std Dev 0.8059
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

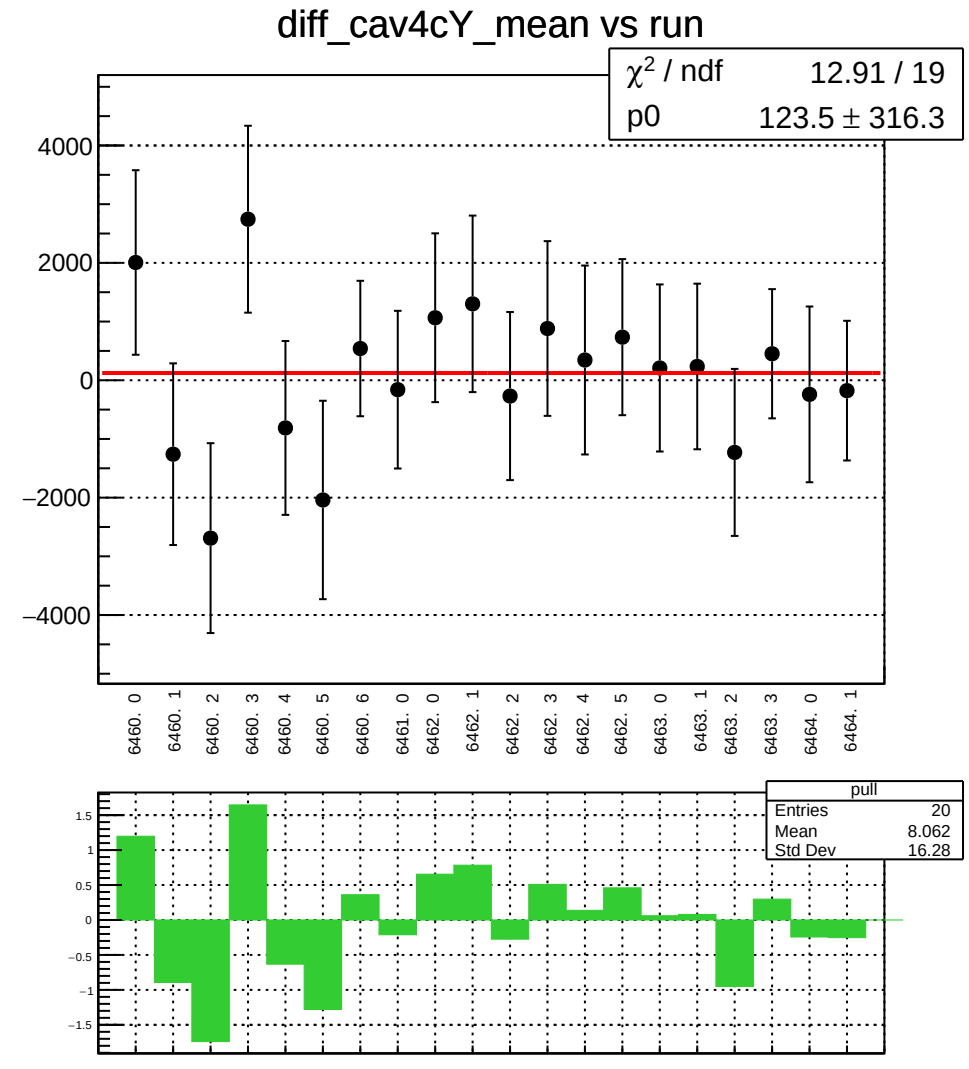

diff_cav4bY_rms vs run
×10^3
290
280
270
260
250
240
χ² / ndf 811.8 / 19
p0 2.616e+05 ± 411.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

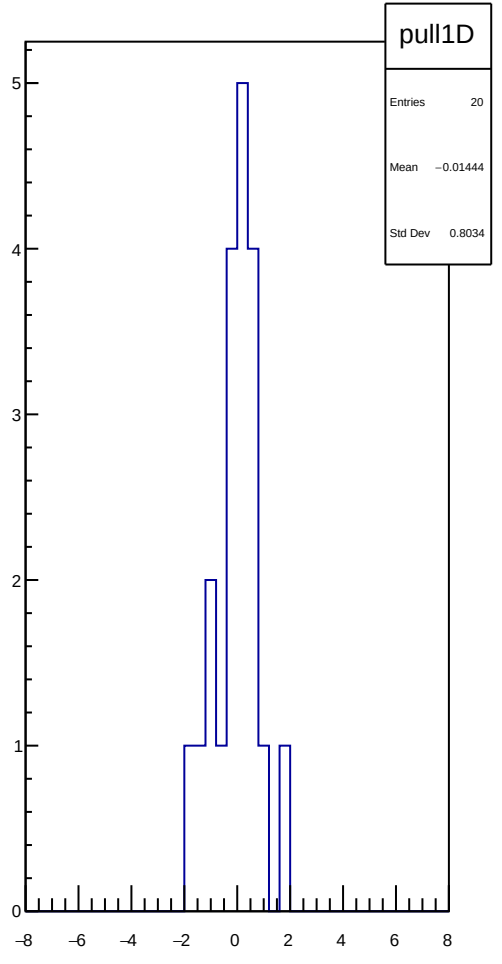

diff_cav4cX_mean vs run
χ² / ndf 10.4 / 19
p0 −189.1± 595.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

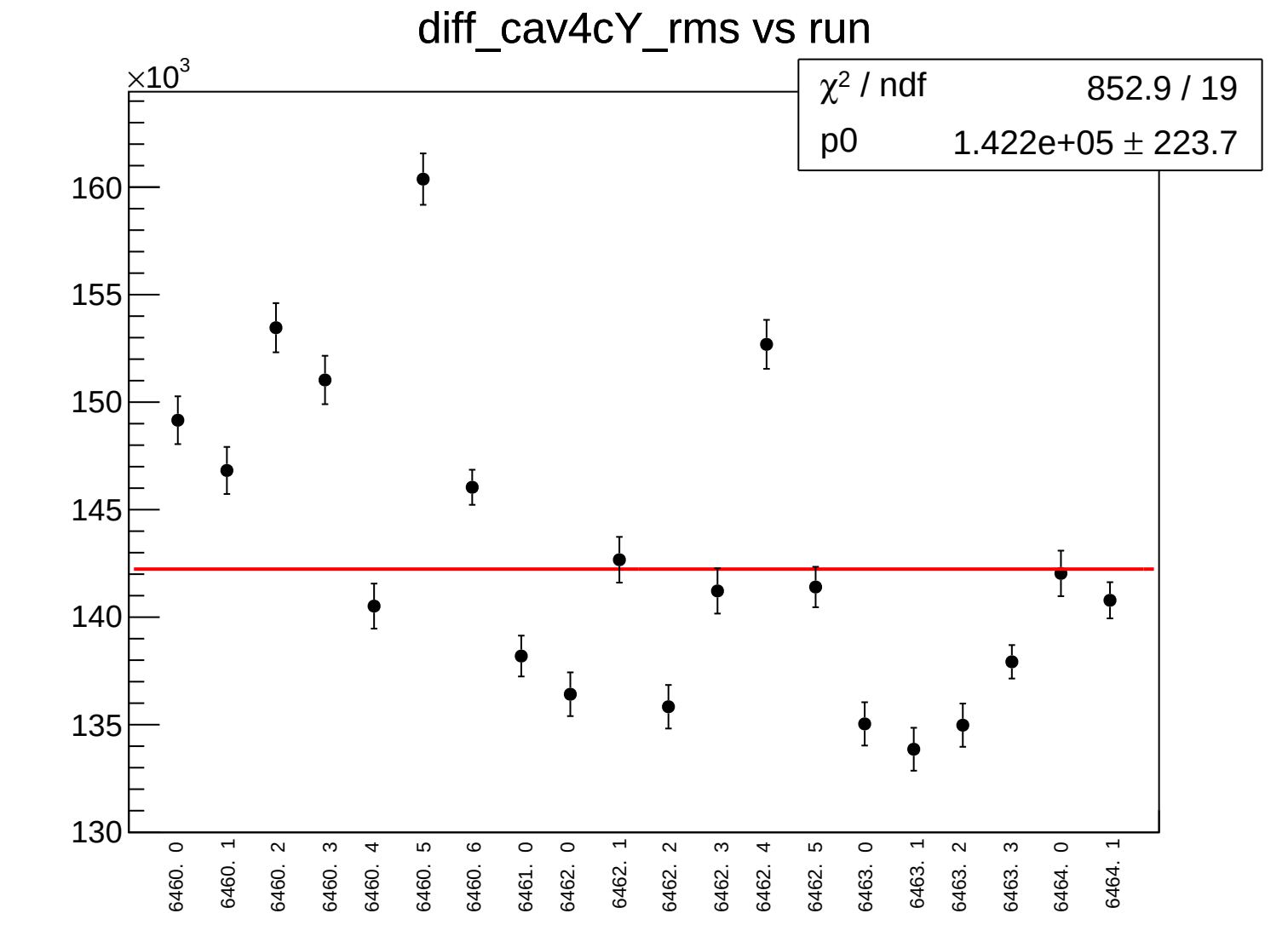

pull
Entries 20
Mean 81.04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

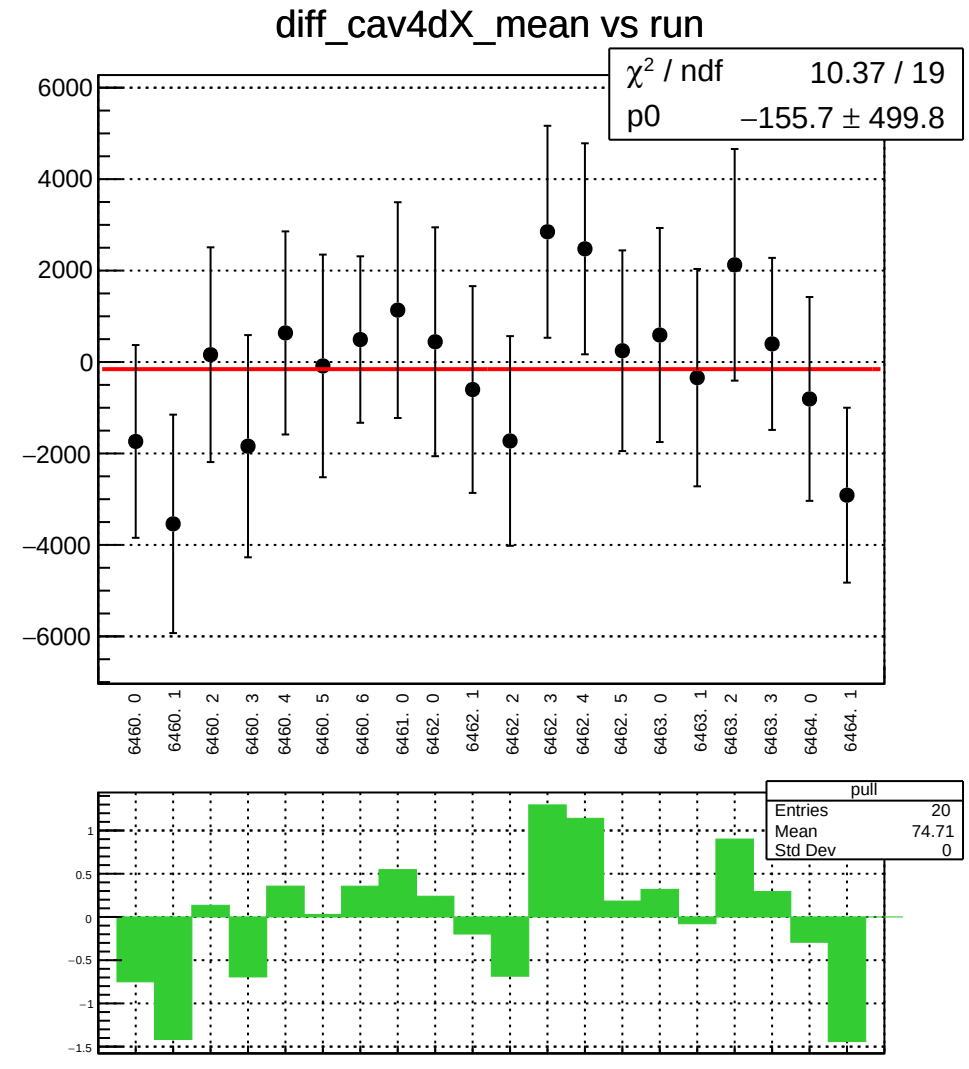

pull1D
Entries 20
Mean 0.01135
Std Dev 0.721
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

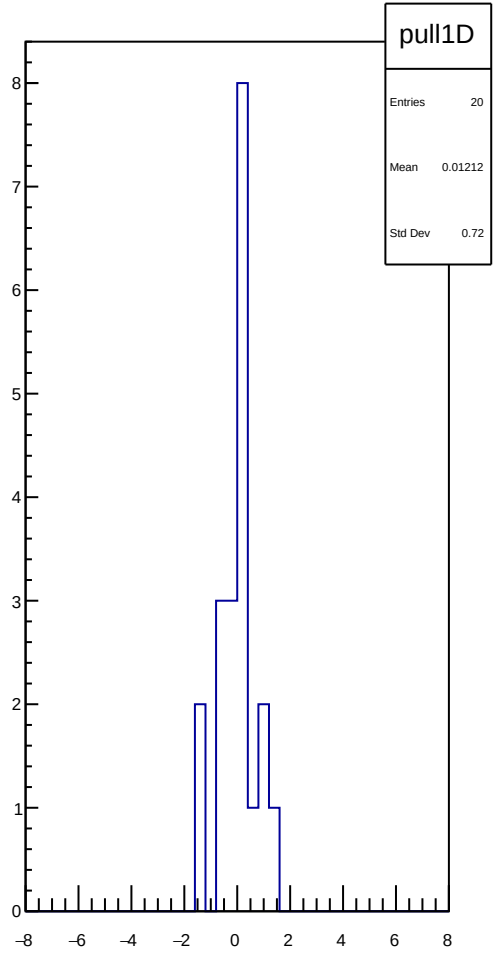

diff_cav4cX_rms vs run
×10^3
290
280
270
260
250
240
χ² / ndf 949 / 19
p0 2.677e+05 ± 421
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

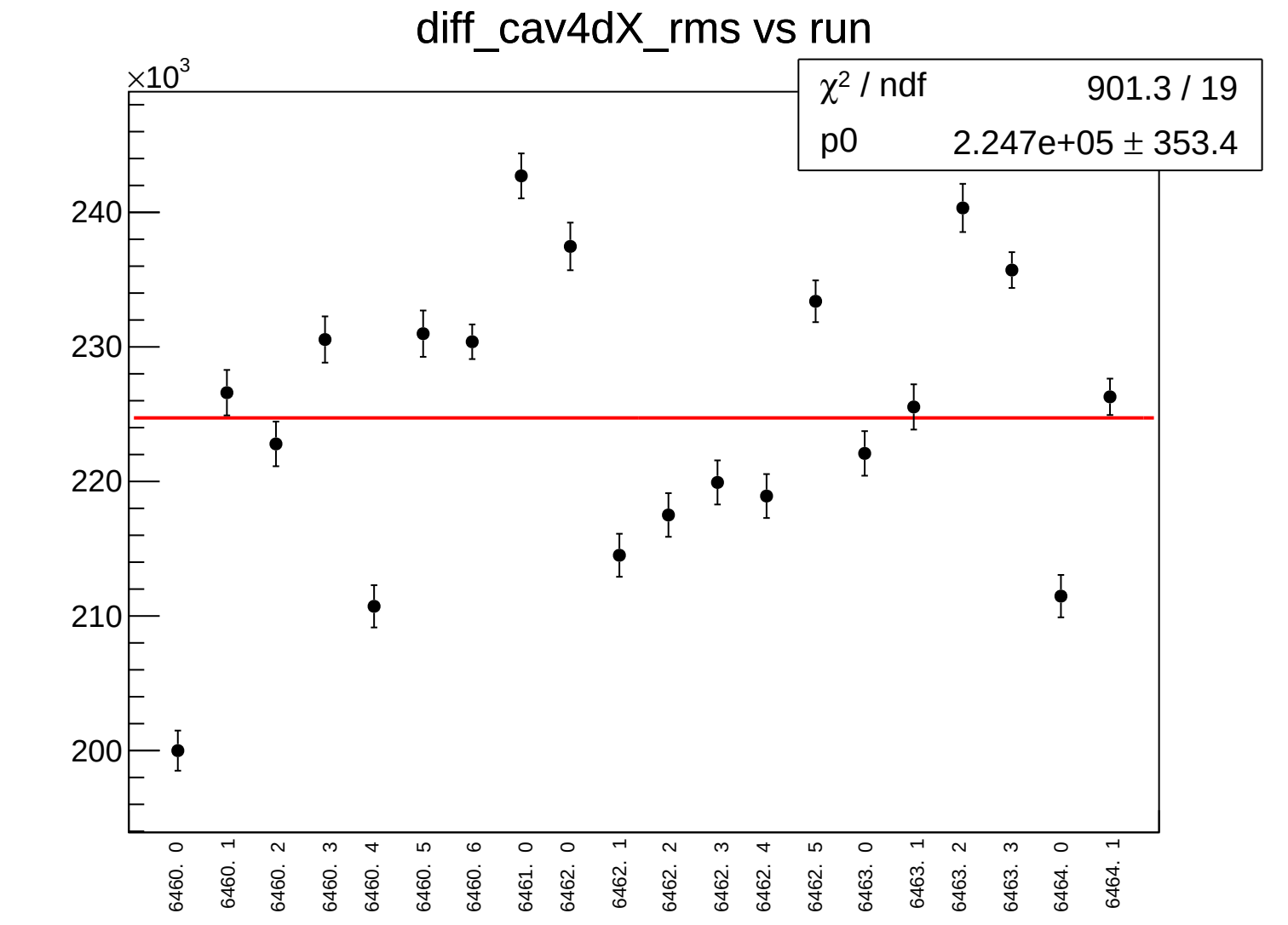

diff_cav4cY_mean vs run
χ² / ndf 12.91 / 19
p0 123.5 ± 316.3
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.062
Std Dev 16.28
1.5
1
0.5
0
−0.5
−1
−1.5

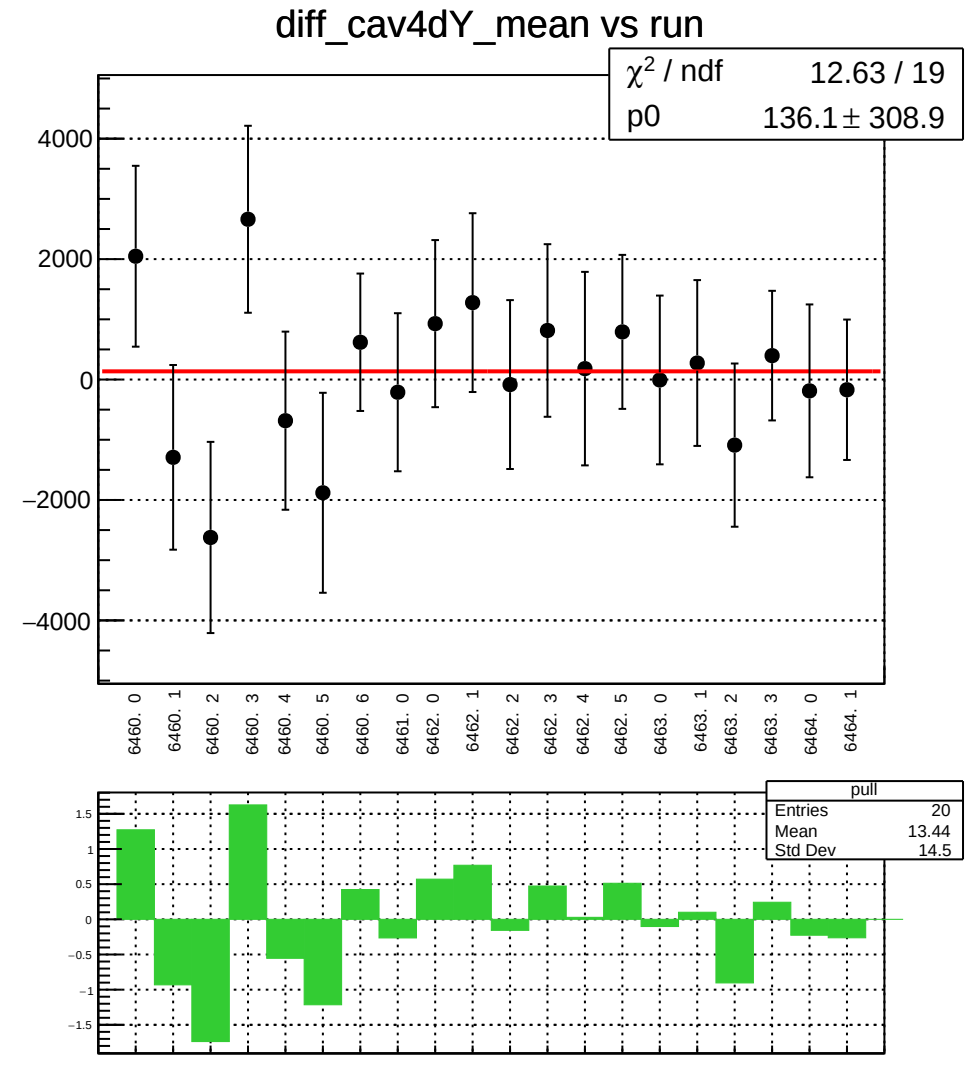

pull1D
Entries 20
Mean −0.01444
Std Dev 0.8034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

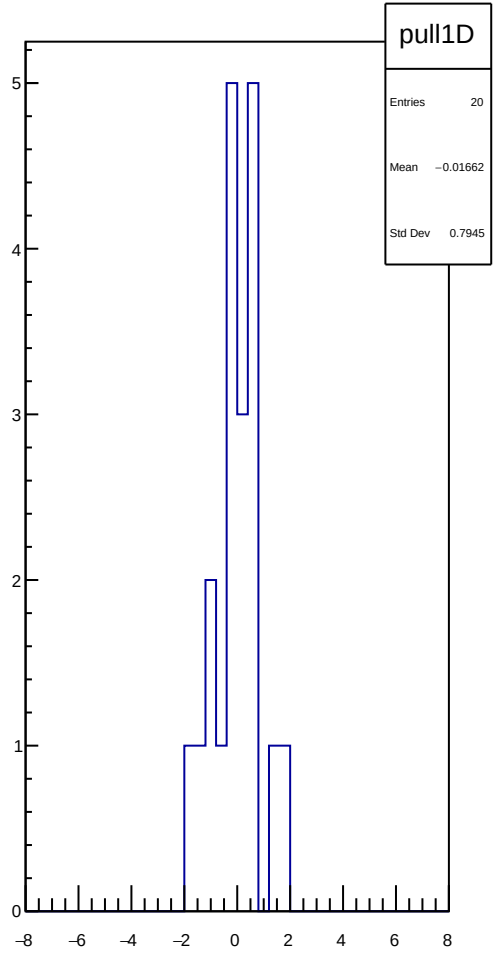

diff_cav4cY_rms vs run
×10^3
χ² / ndf 852.9 / 19
p0 1.422e+05 ± 223.7
160
155
150
145
140
135
130
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

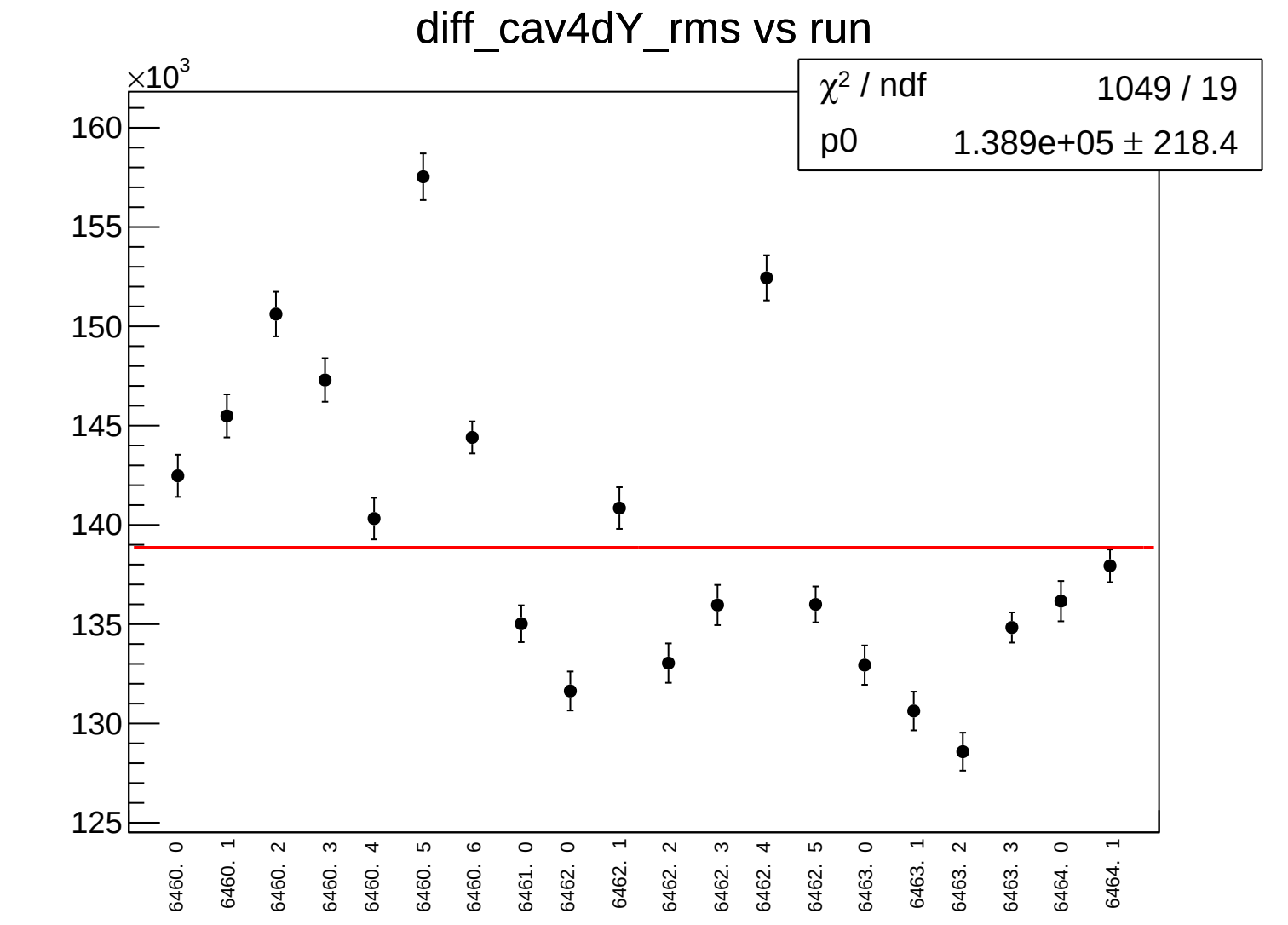

diff_cav4dX_mean vs run
χ² / ndf 10.37 / 19
p0 −155.7 ± 499.8
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 74.71
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

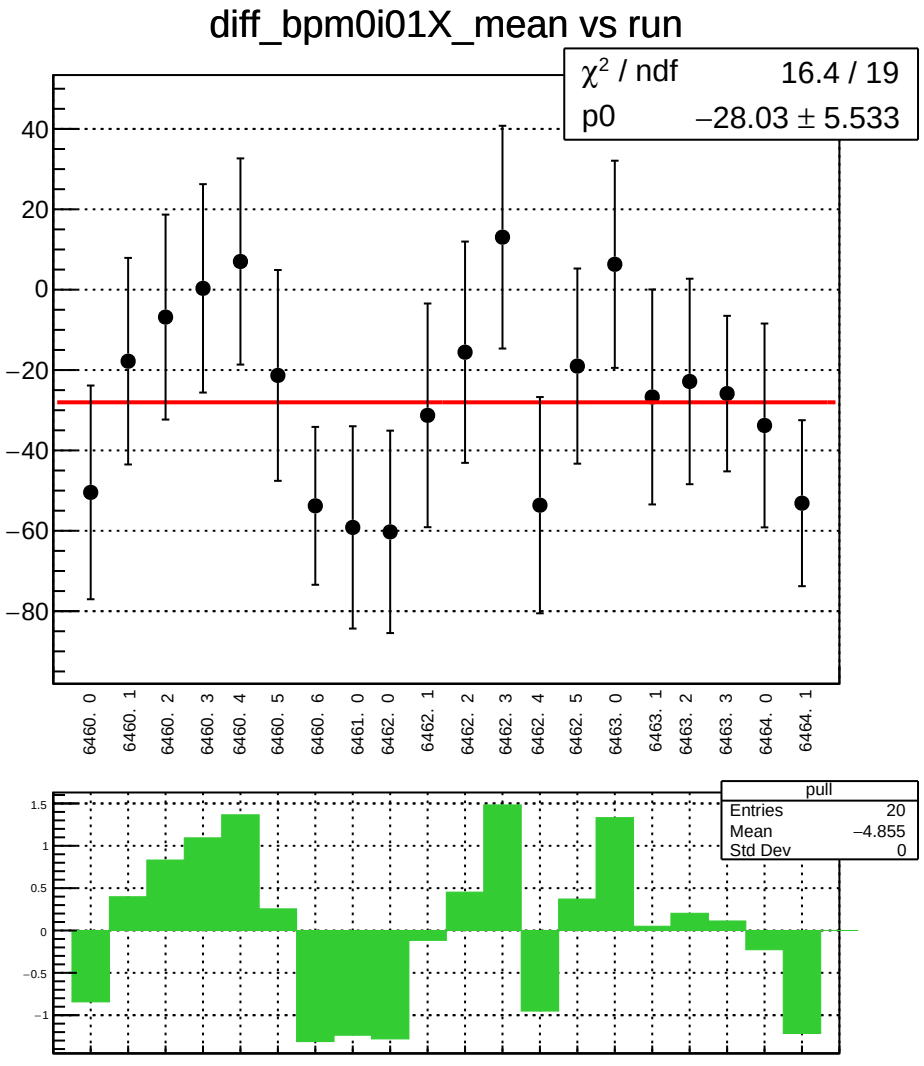

pull1D
Entries 20
Mean 0.01212
Std Dev 0.72
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

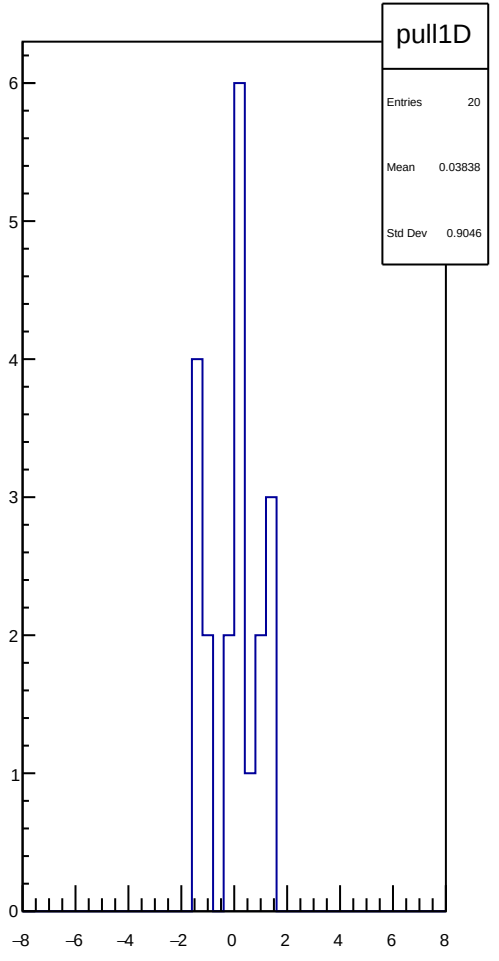

diff_cav4dX_rms vs run
×10^3
240
230
220
210
200
χ² / ndf 901.3 / 19
p0 2.247e+05 ± 353.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

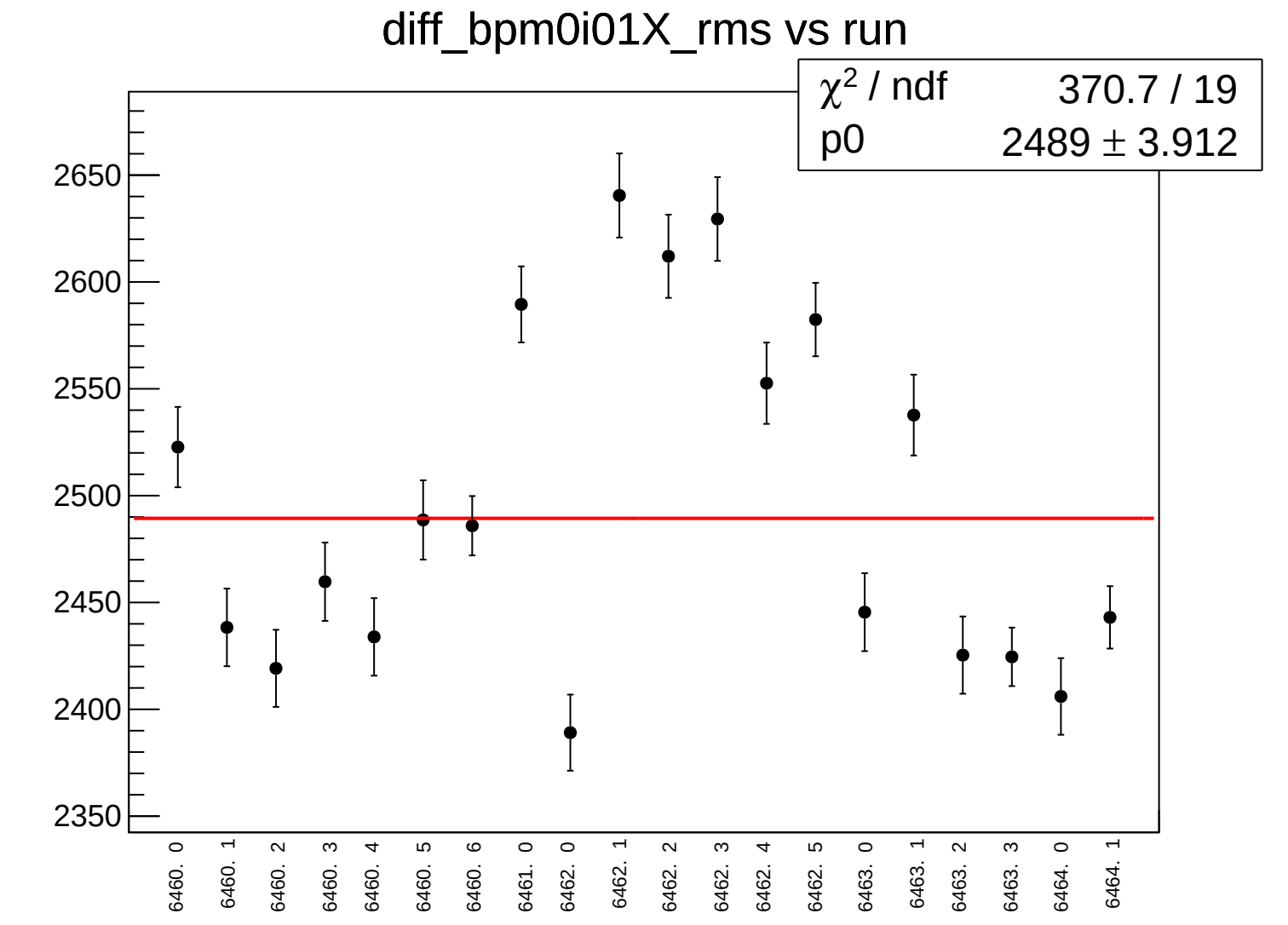

diff_cav4dY_mean vs run
χ² / ndf 12.63 / 19
p0 136.1 ± 308.9
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.44
Std Dev 14.5
1.5
1
0.5
0
−0.5
−1
−1.5

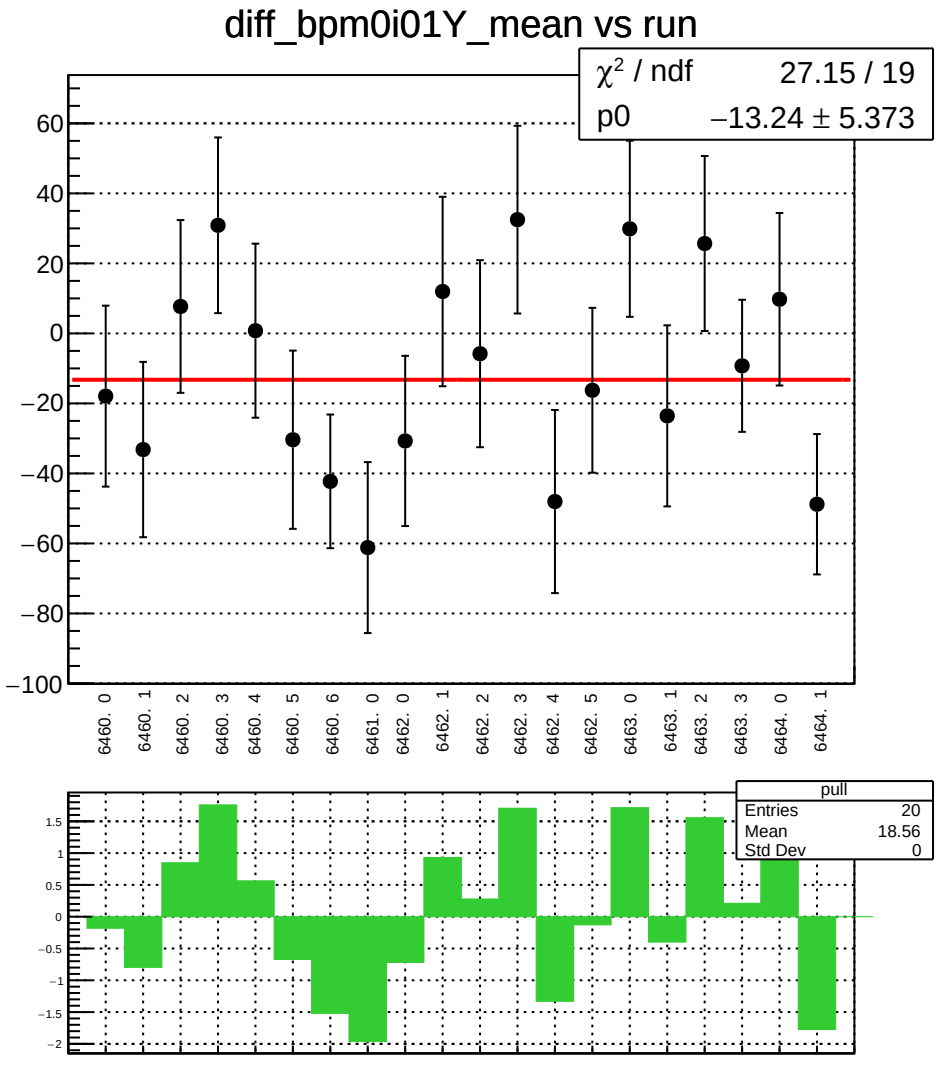

pull1D
Entries 20
Mean −0.01662
Std Dev 0.7945
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

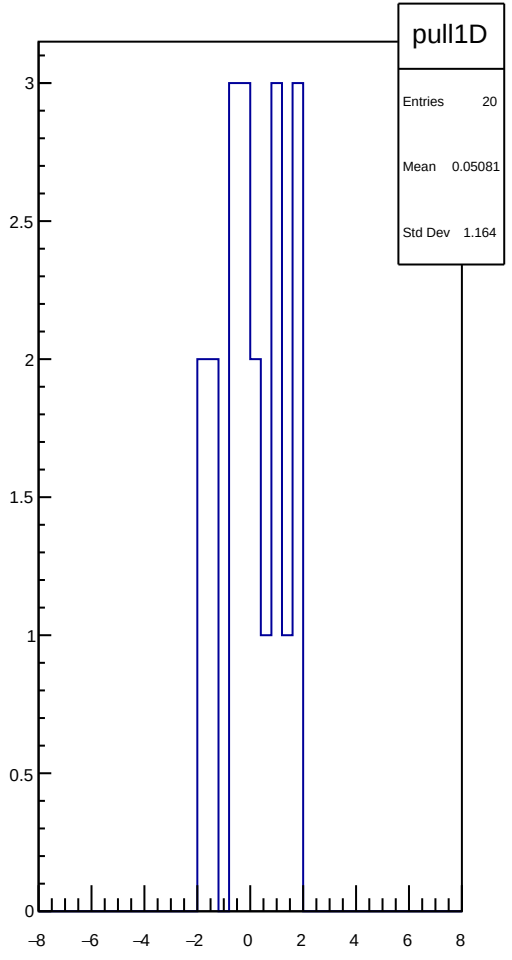

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1049 / 19
p0 1.389e+05 ± 218.4
160
155
150
145
140
135
130
125
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

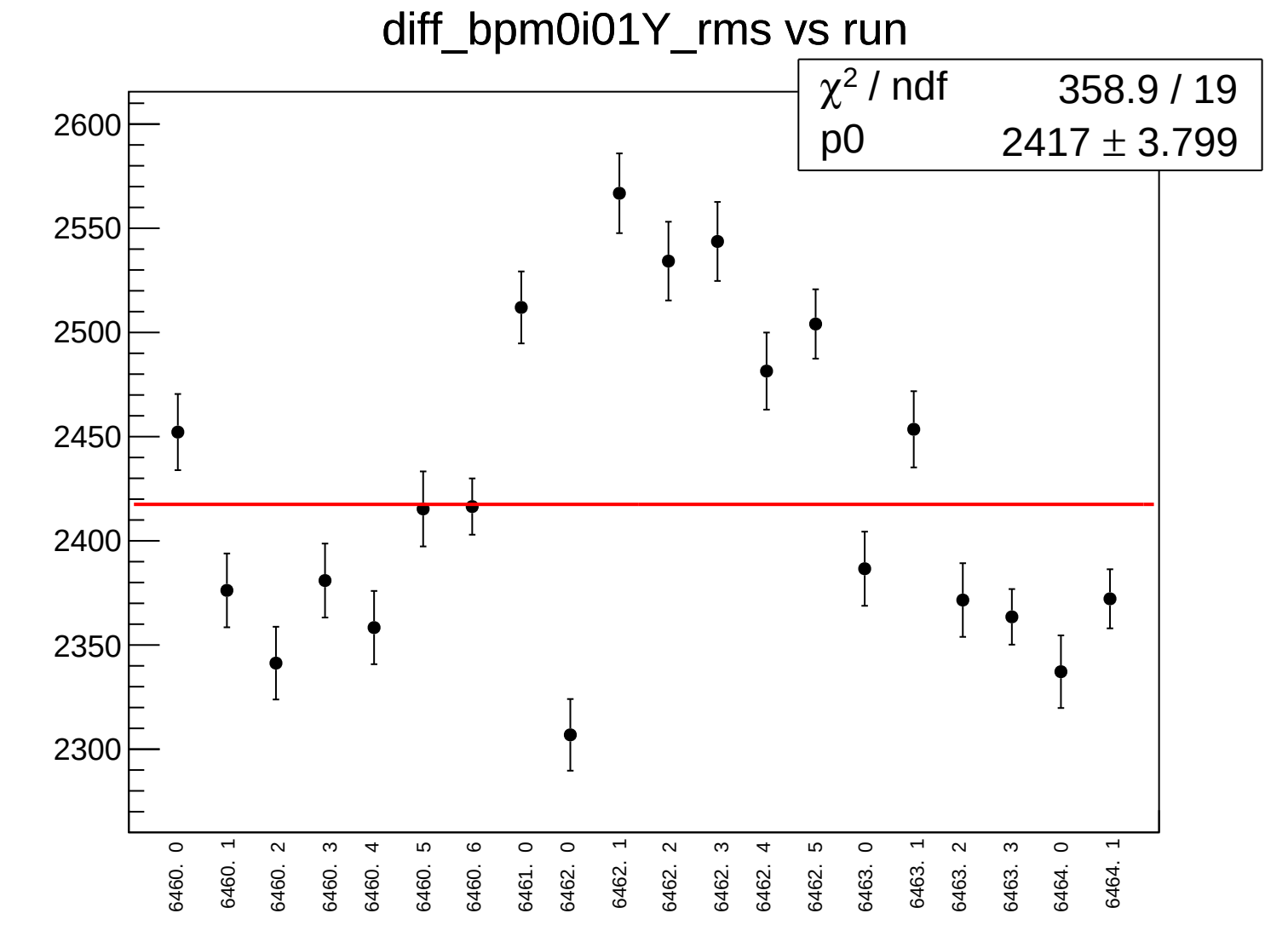

diff_bpm0i01X_mean vs run
χ² / ndf 16.4 / 19
p0 −28.03 ± 5.533
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.855
Std Dev 0
1.5
1
0.5
0
−0.5
−1

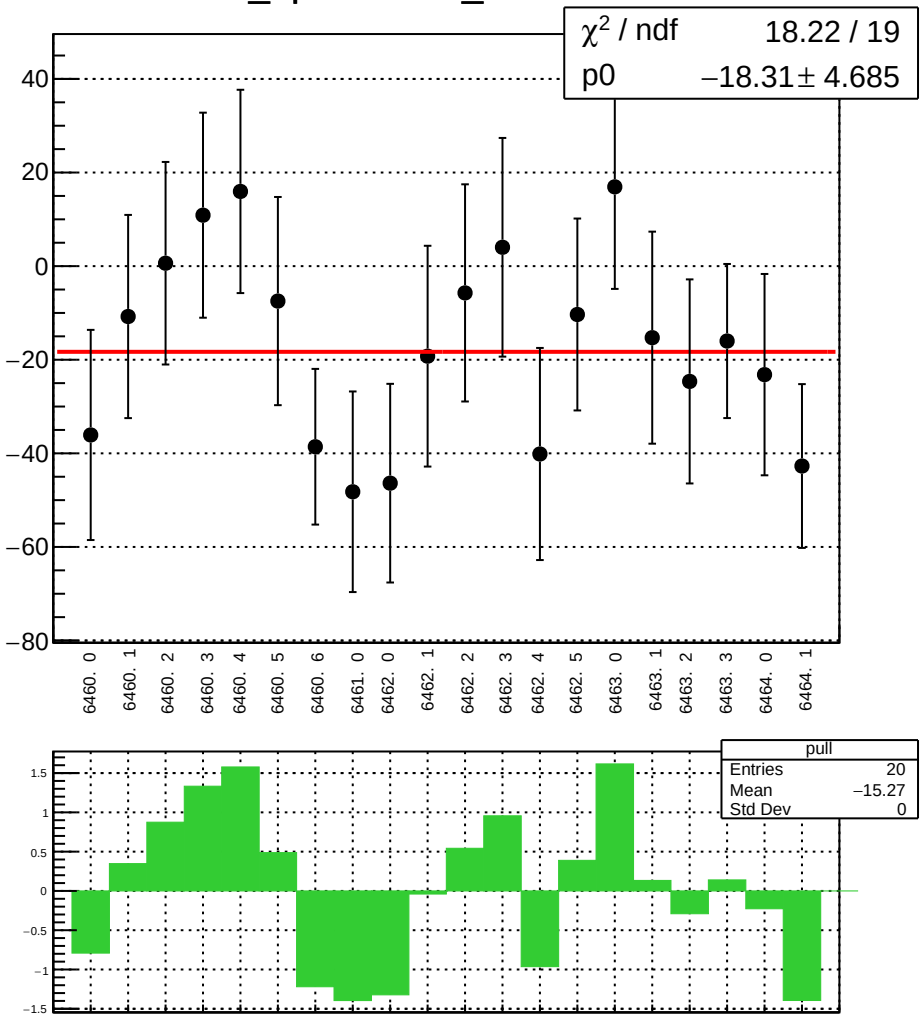

pull1D
Entries 20
Mean 0.03838
Std Dev 0.9046
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

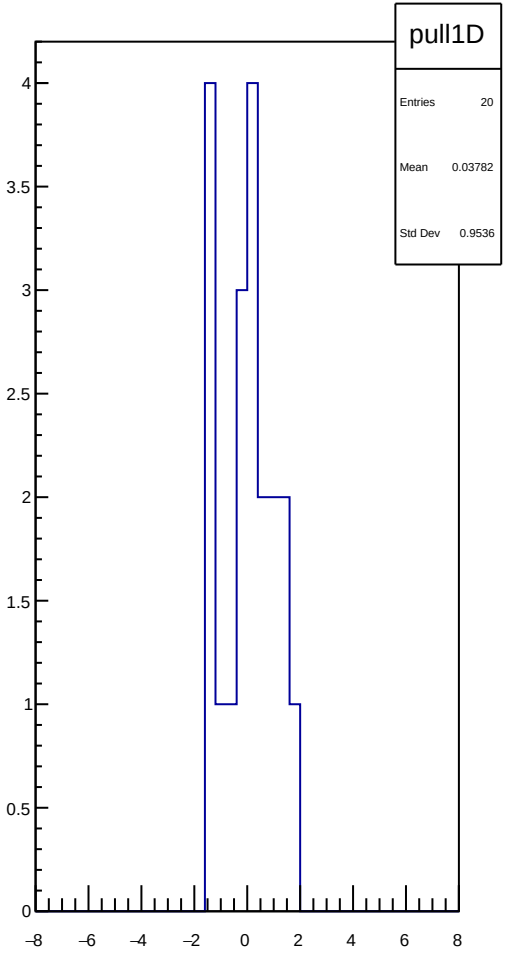

diff_bpm0i01X_rms vs run
χ² / ndf 370.7 / 19
p0 2489 ± 3.912
2650
2600
2550
2500
2450
2400
2350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

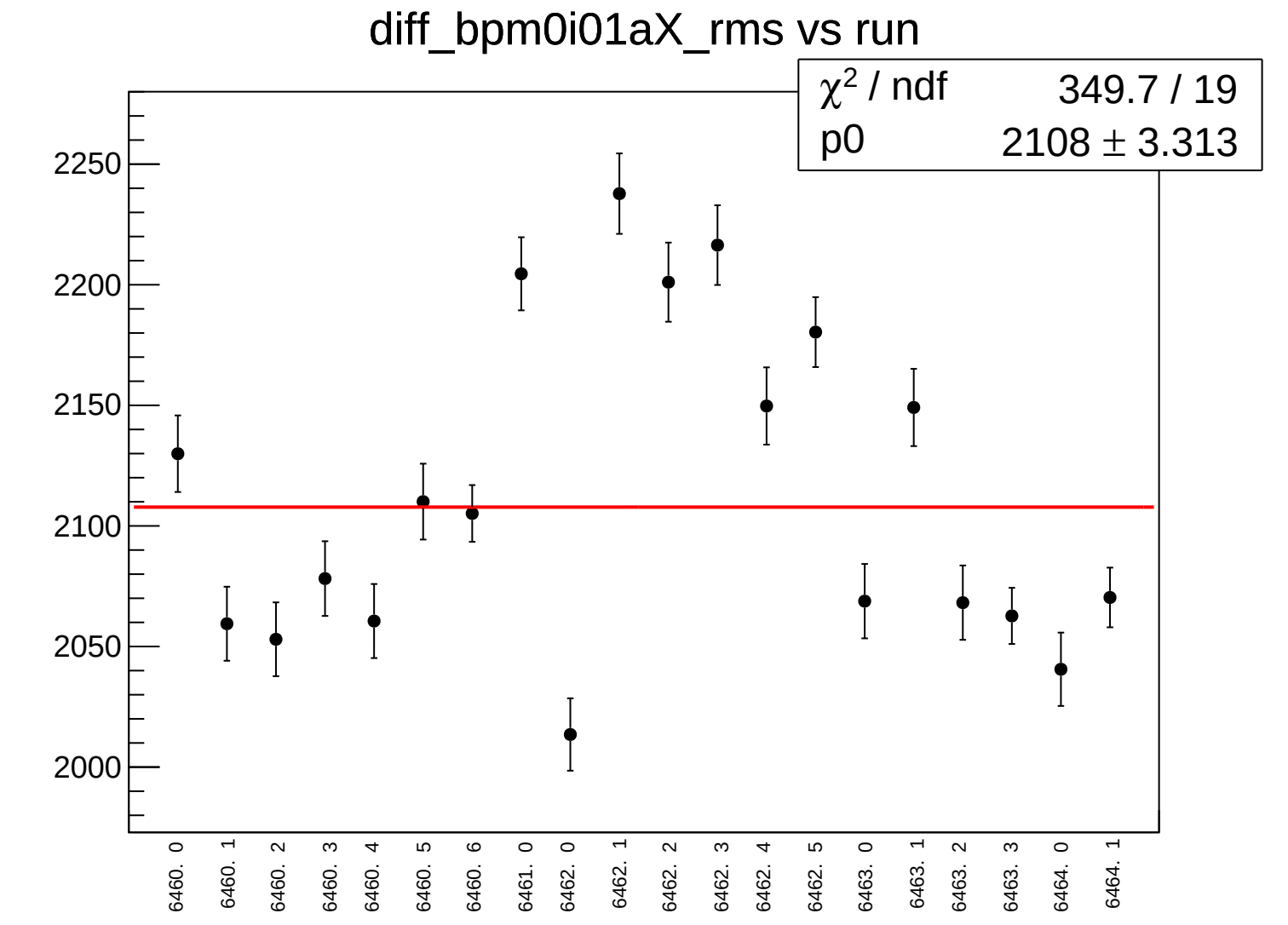

diff_bpm0i01Y_mean vs run
χ² / ndf 27.15 / 19
p0 −13.24 ± 5.373
60
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

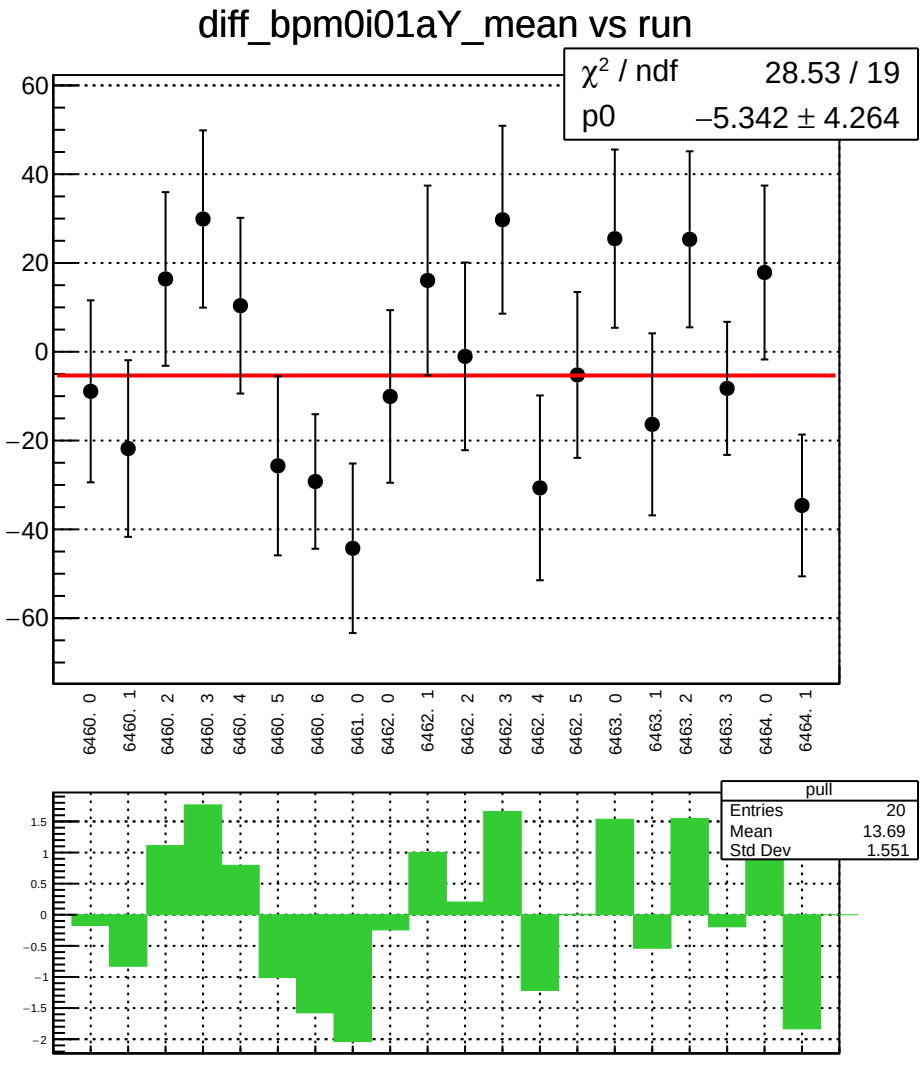

pull1D
Entries 20
Mean 0.05081
Std Dev 1.164
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

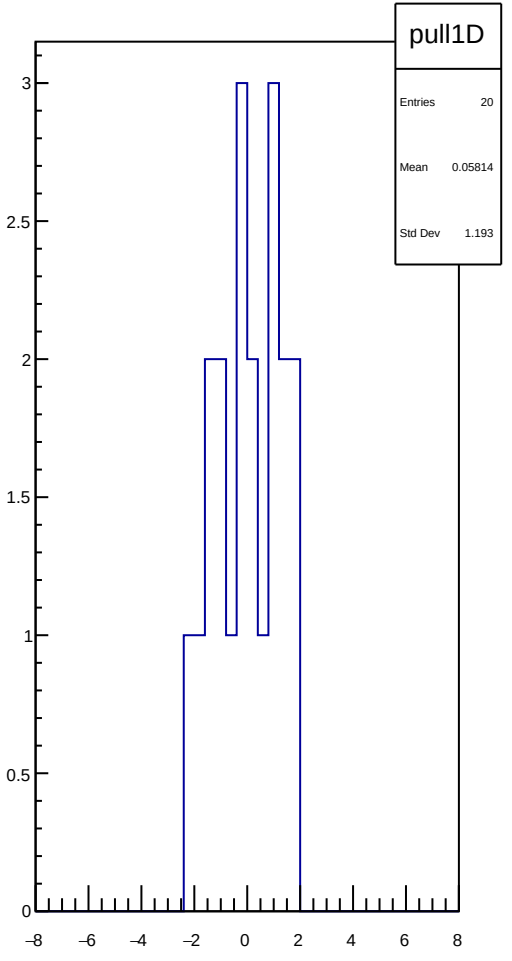

diff_bpm0i01Y_rms vs run
χ² / ndf 358.9 / 19
p0 2417 ± 3.799
2600
2550
2500
2450
2400
2350
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

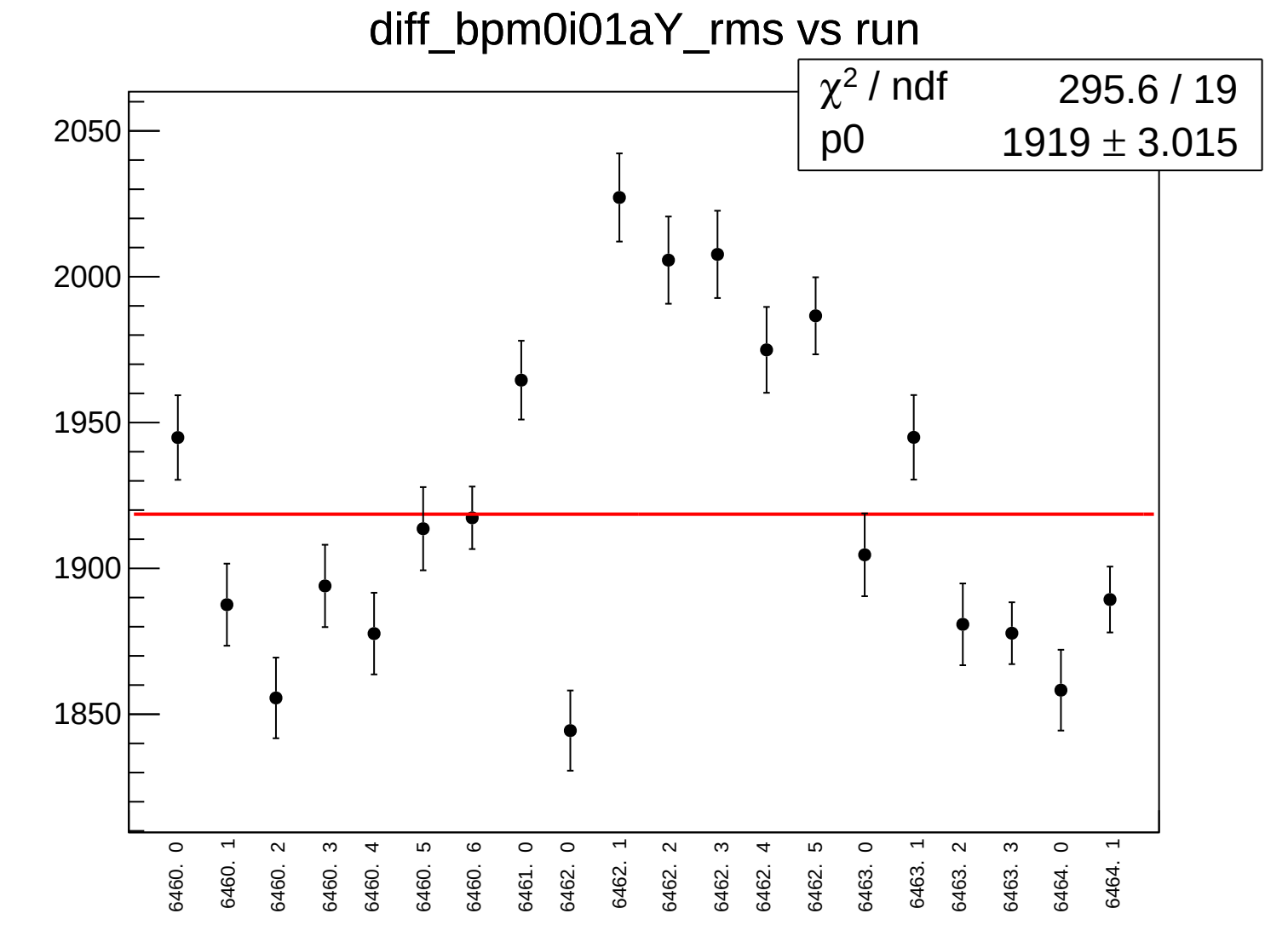

diff_bpm0i01aX_mean vs run
χ² / ndf 18.22 / 19
p0 −18.31 ± 4.685
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −15.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

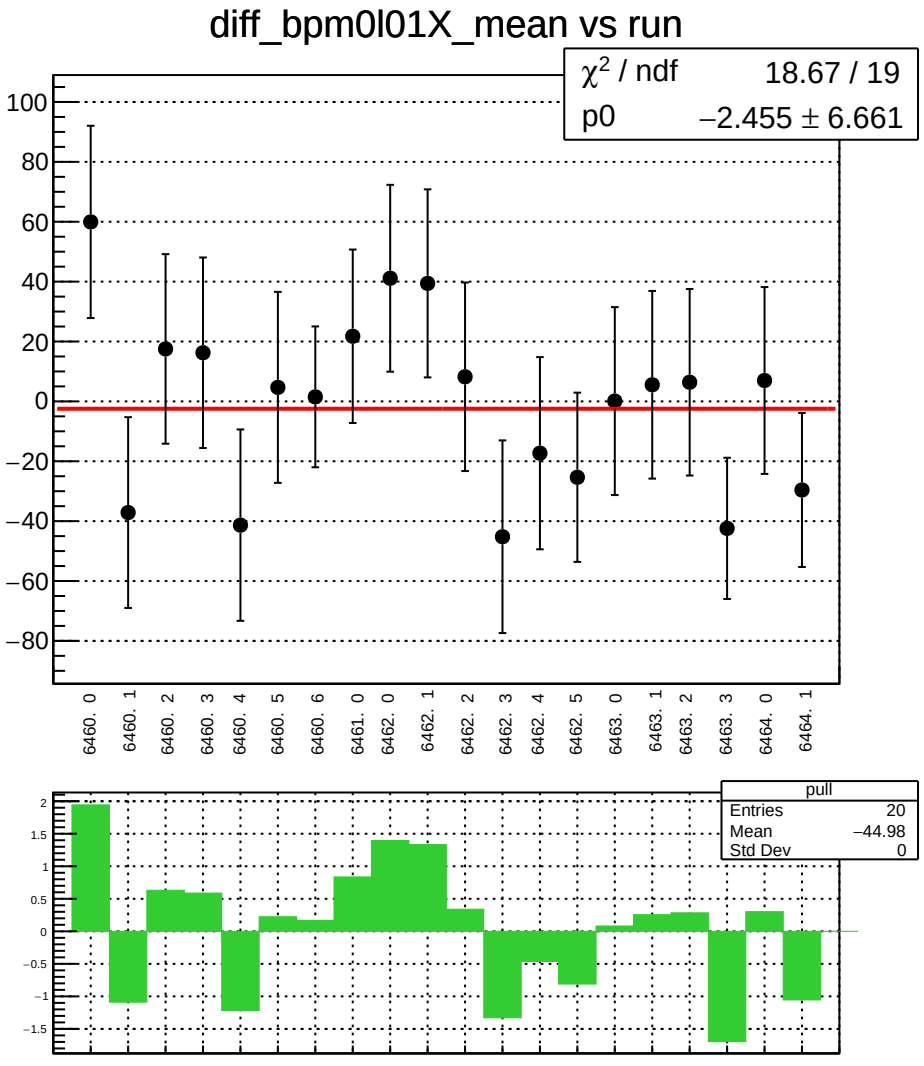

pull1D
Entries 20
Mean 0.03782
Std Dev 0.9536
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

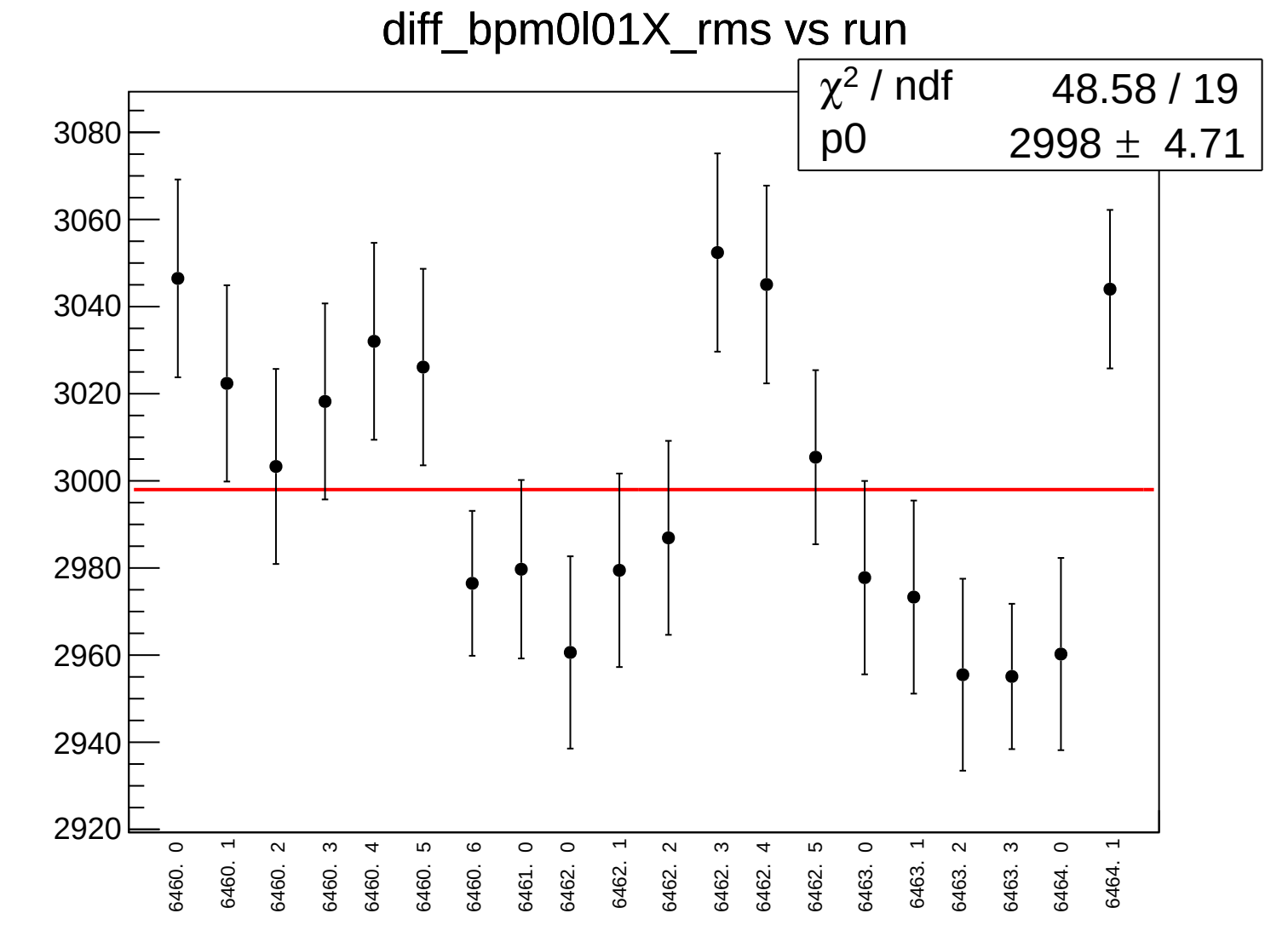

diff_bpm0i01aX_rms vs run
χ² / ndf 349.7 / 19
p0 2108 ± 3.313
2250
2200
2150
2100
2050
2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

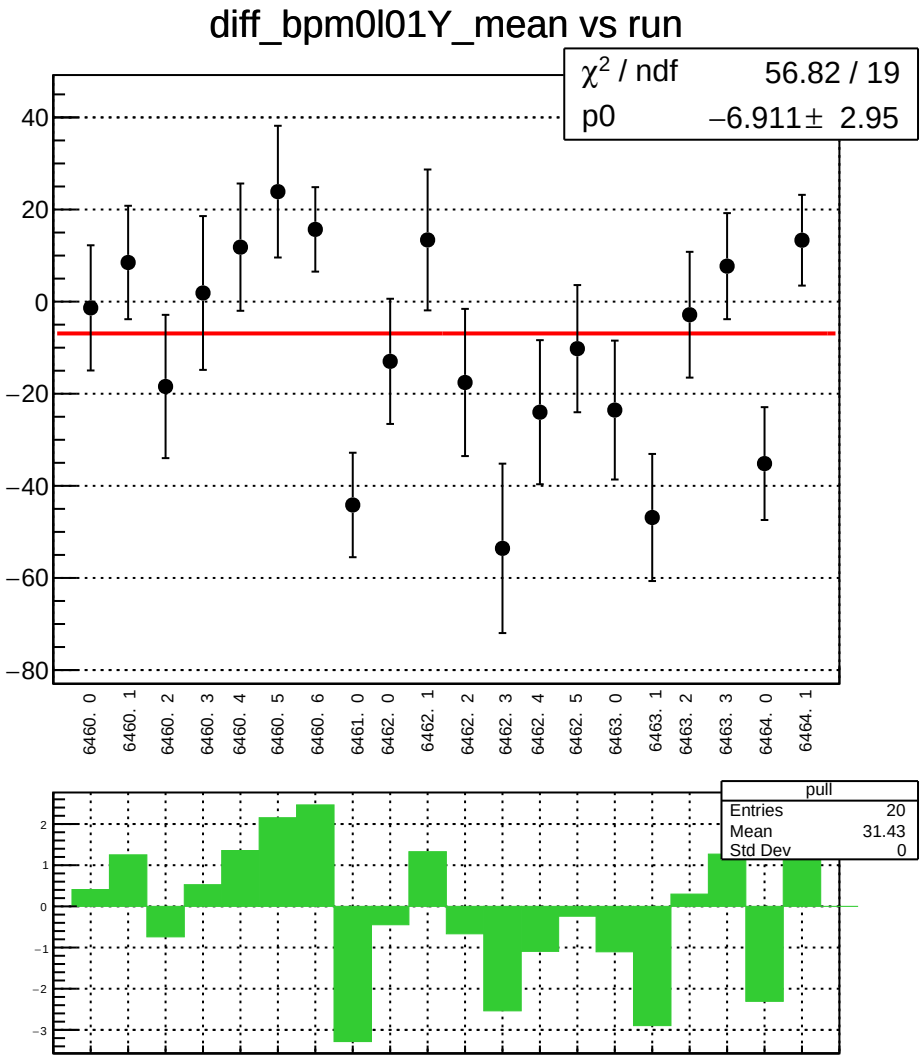

diff_bpm0i01aY_mean vs run
χ² / ndf 28.53 / 19
p0 −5.342 ± 4.264
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.69
Std Dev 1.551
1.5
1
0.5
0
−0.5
−1
−1.5
−2

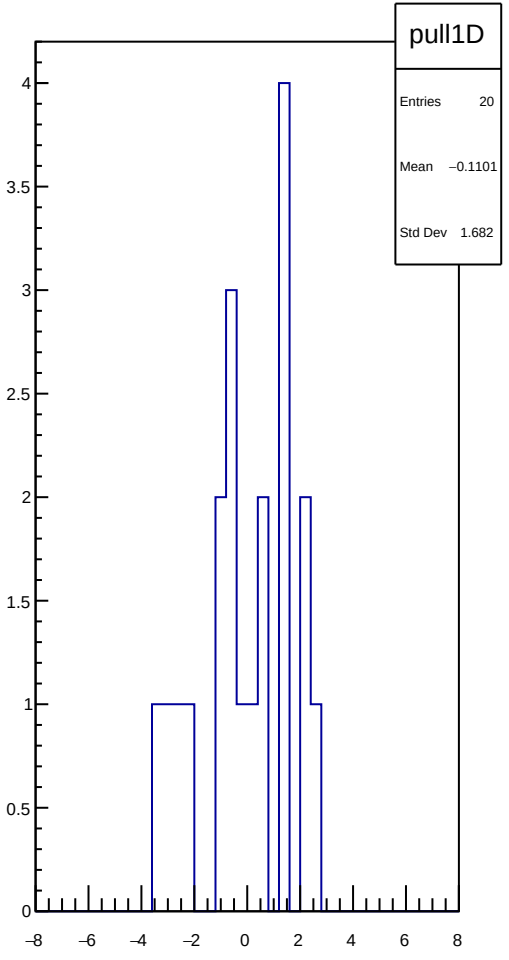

pull1D
Entries 20
Mean 0.05814
Std Dev 1.193
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

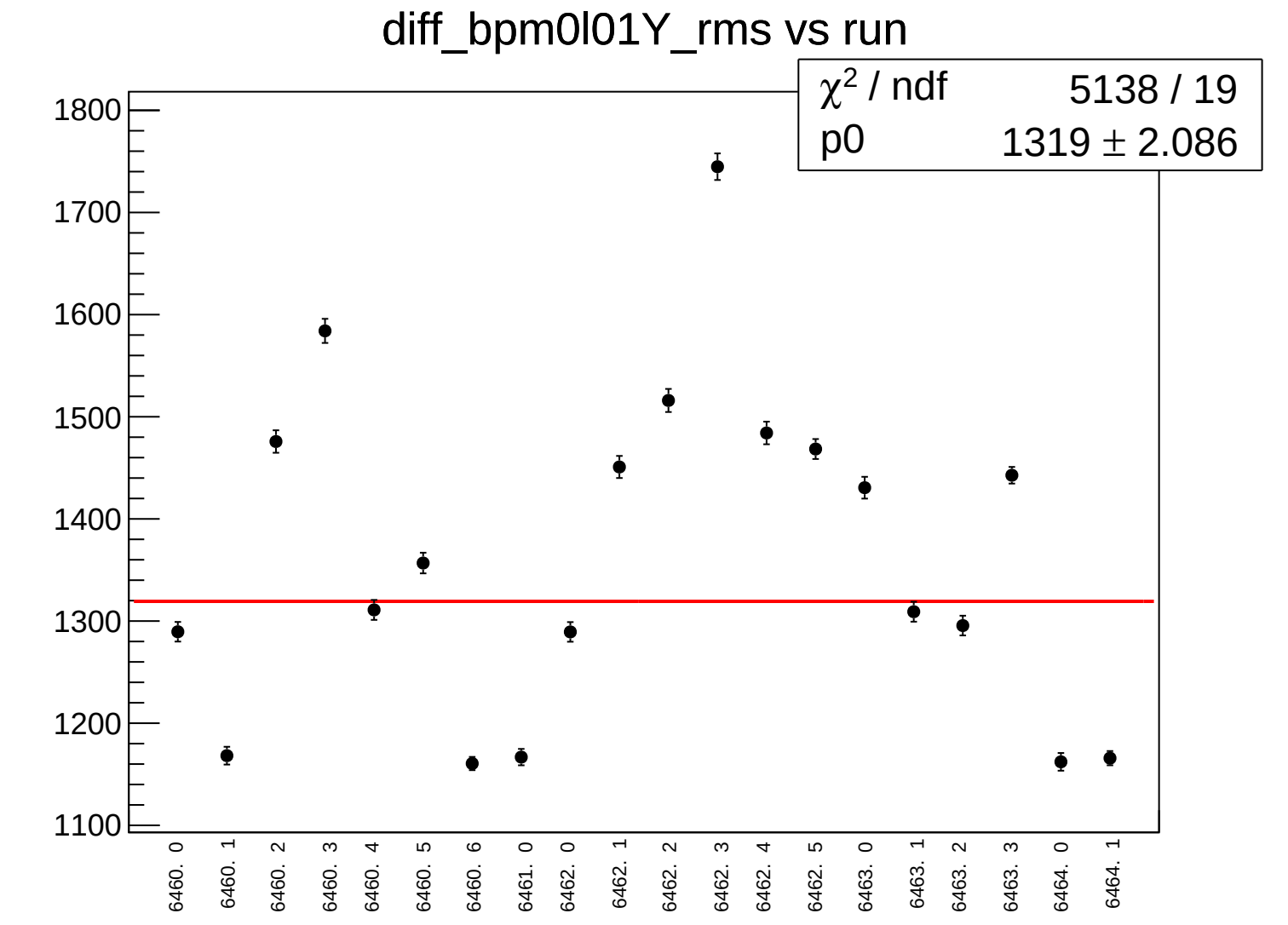

diff_bpm0i01aY_rms vs run
χ² / ndf 295.6 / 19
p0 1919 ± 3.015
2050
2000
1950
1900
1850
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

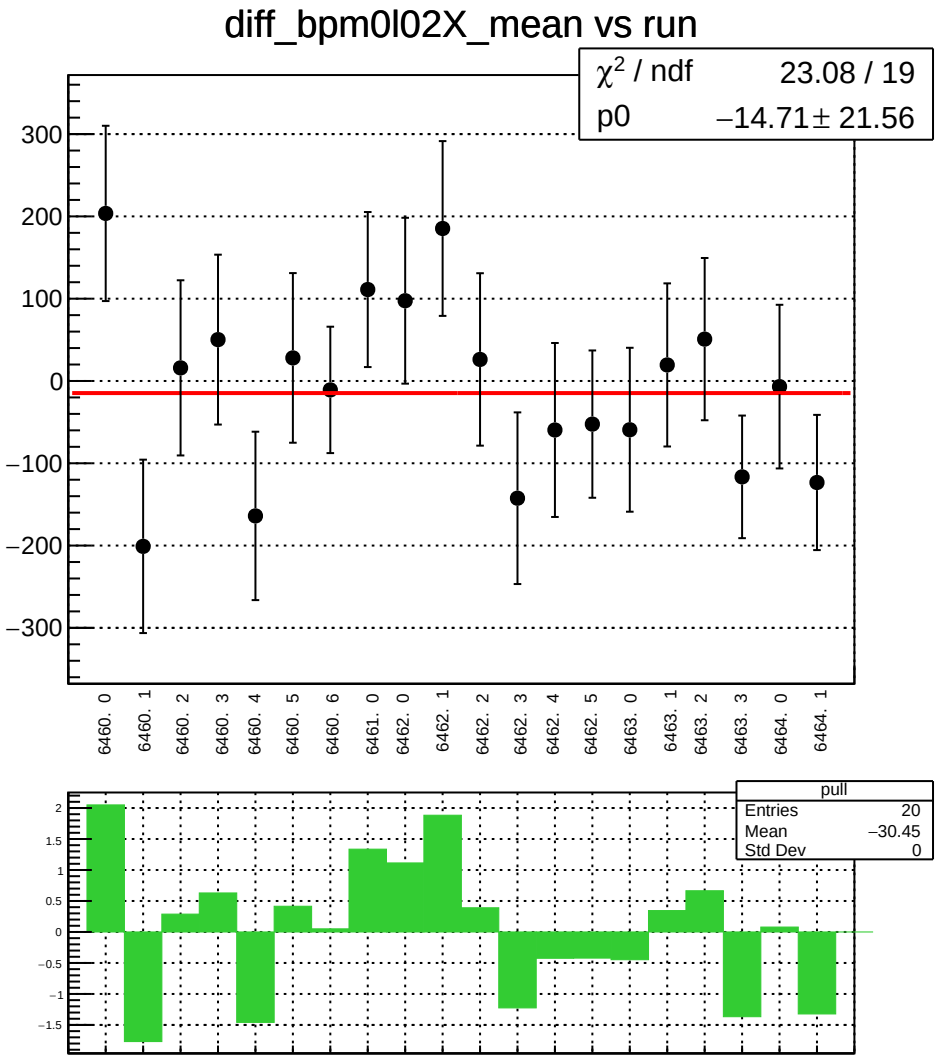

diff_bpm0l01X_mean vs run
χ² / ndf 18.67 / 19
p0 −2.455 ± 6.661
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −44.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03626
Std Dev 0.9654
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

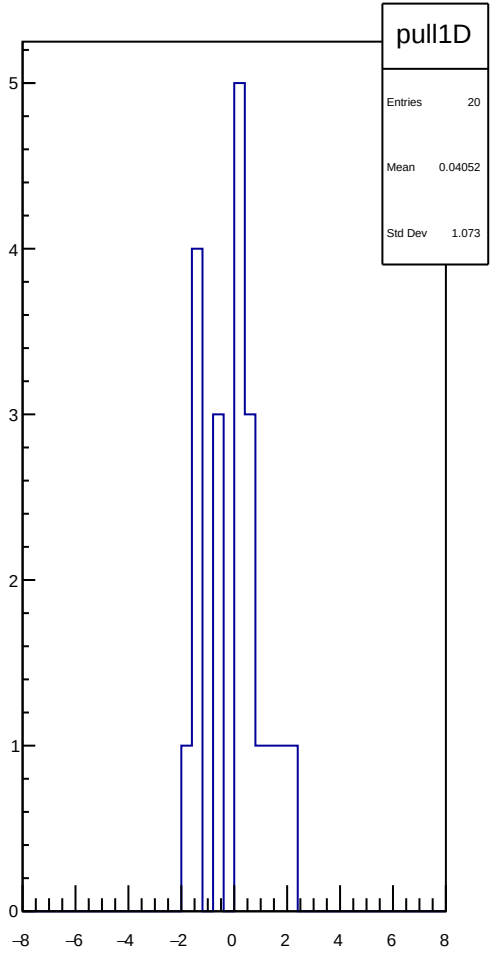

diff_bpm0l01X_rms vs run
χ² / ndf 48.58 / 19
p0 2998 ± 4.71
3080
3060
3040
3020
3000
2980
2960
2940
2920
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

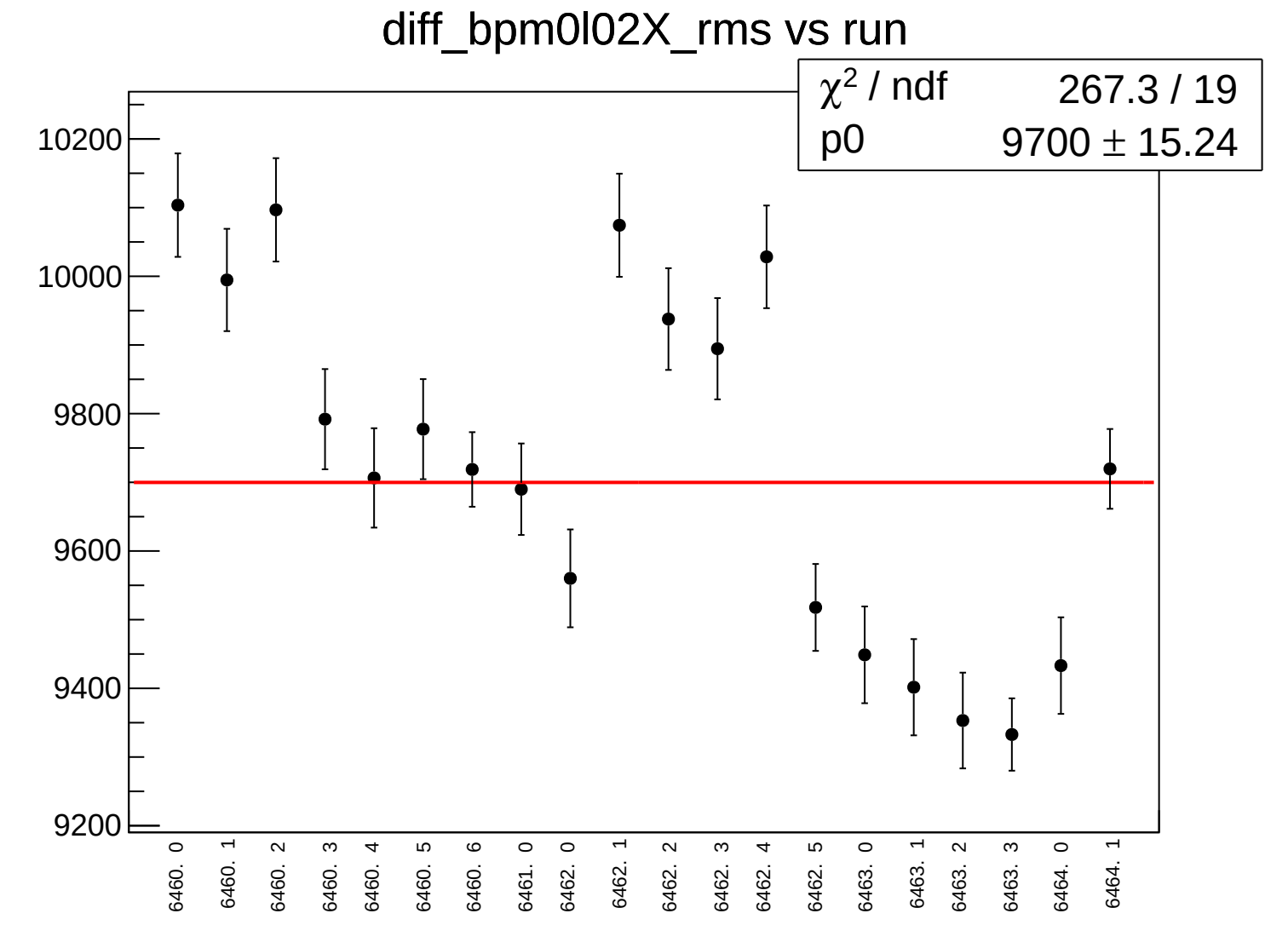

diff_bpm0l01Y_mean vs run
χ² / ndf 56.82 / 19
p0 −6.911± 2.95
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.43
Std Dev 0
2
1
0
−1
−2
−3

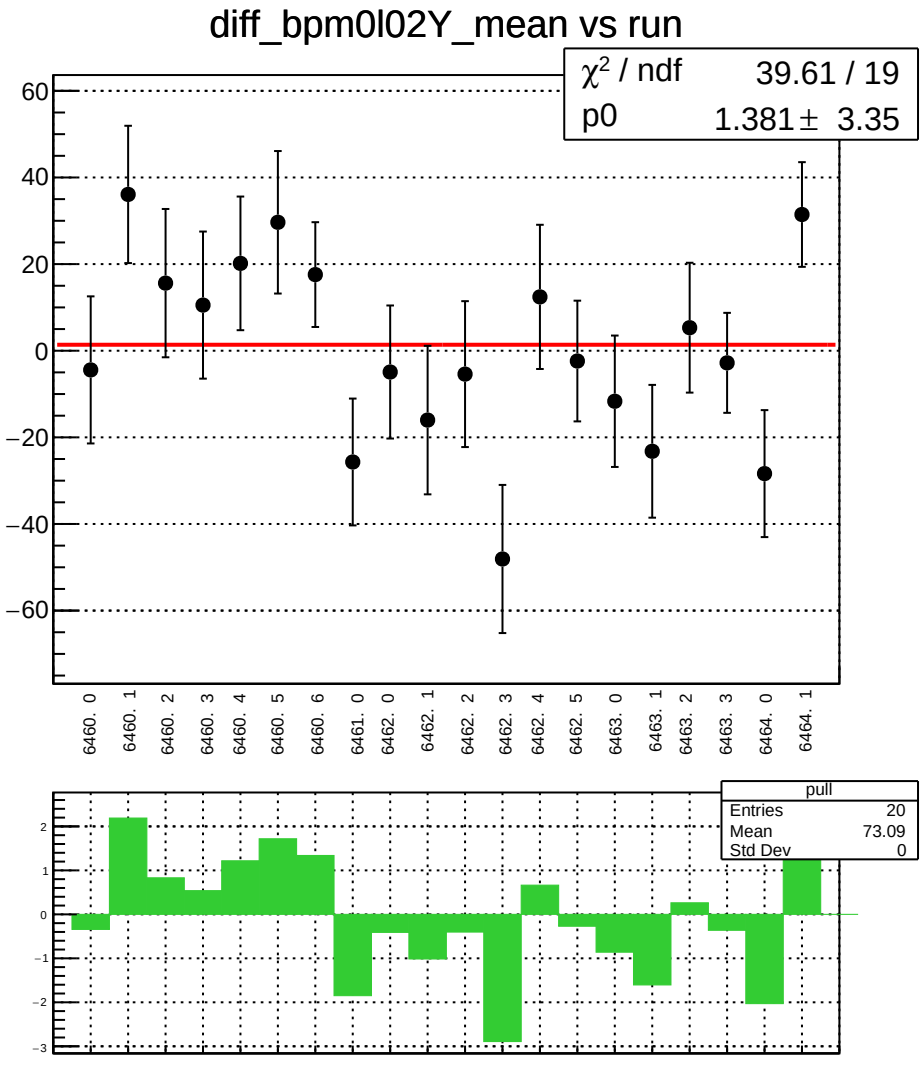

pull1D
Entries 20
Mean −0.1101
Std Dev 1.682
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

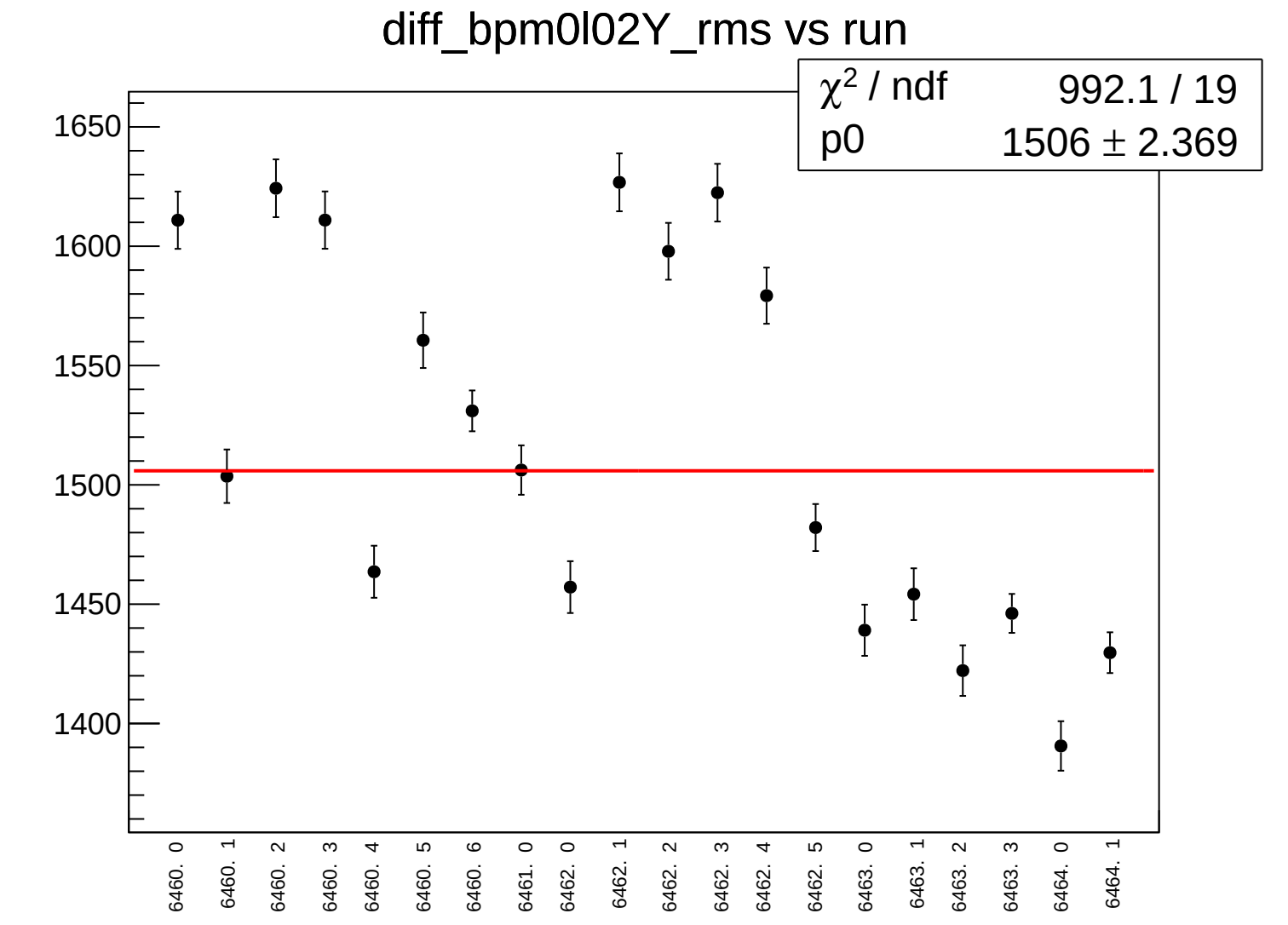

diff_bpm0l01Y_rms vs run
χ² / ndf 5138 / 19
p0 1319 ± 2.086
1800
1700
1600
1500
1400
1300
1200
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

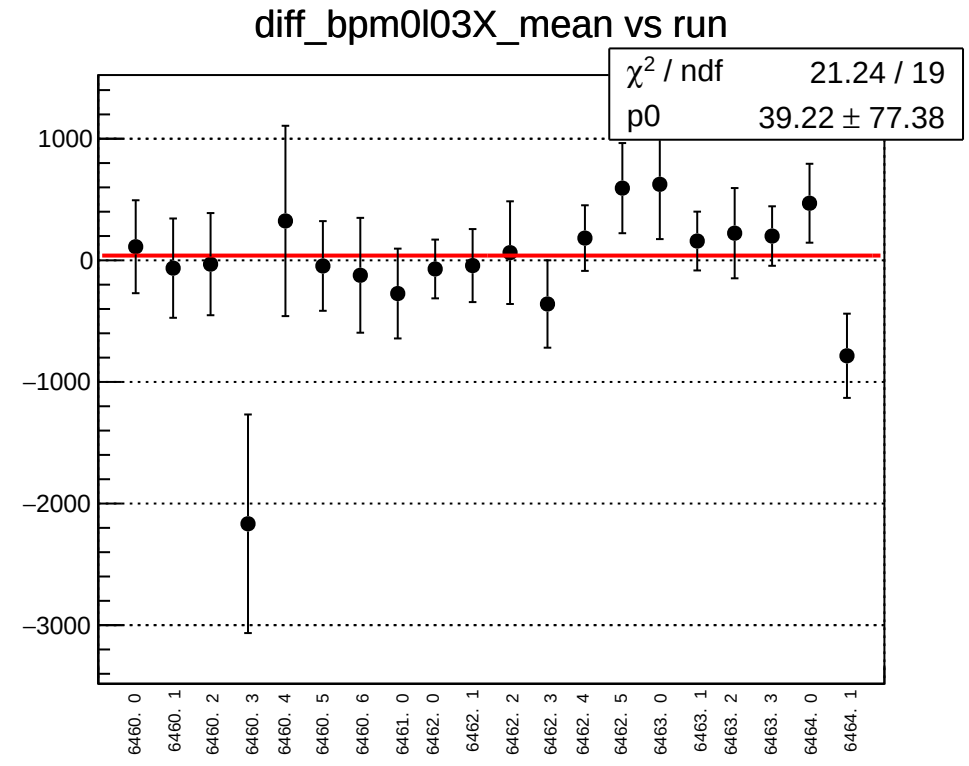

diff_bpm0l02X_mean vs run
χ² / ndf 23.08 / 19
p0 −14.71± 21.56
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −30.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

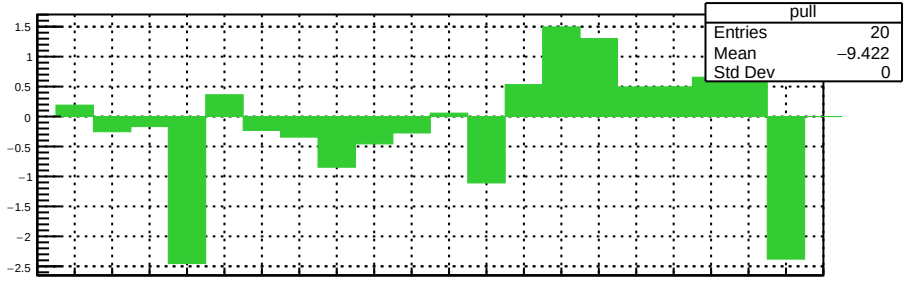

pull1D
Entries 20
Mean 0.04052
Std Dev 1.073
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

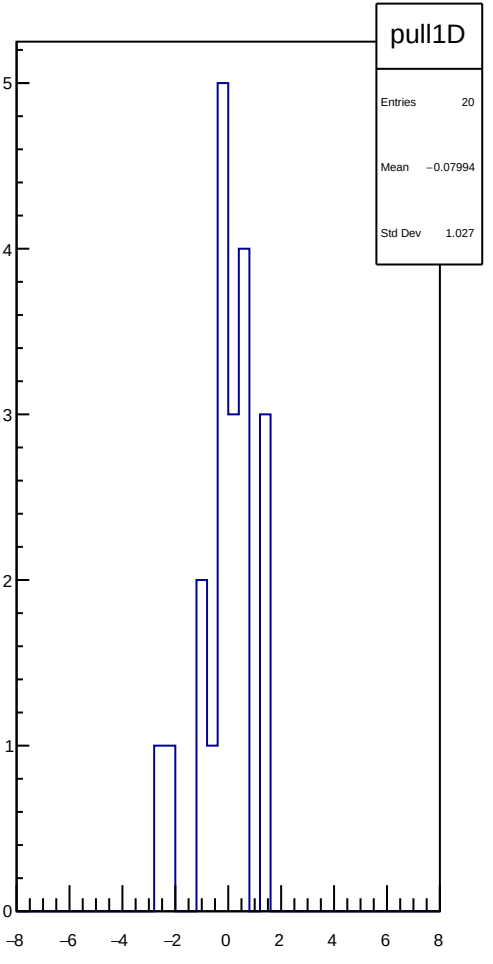

diff_bpm0l02X_rms vs run
χ² / ndf 267.3 / 19
p0 9700 ± 15.24
10200
10000
9800
9600
9400
9200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

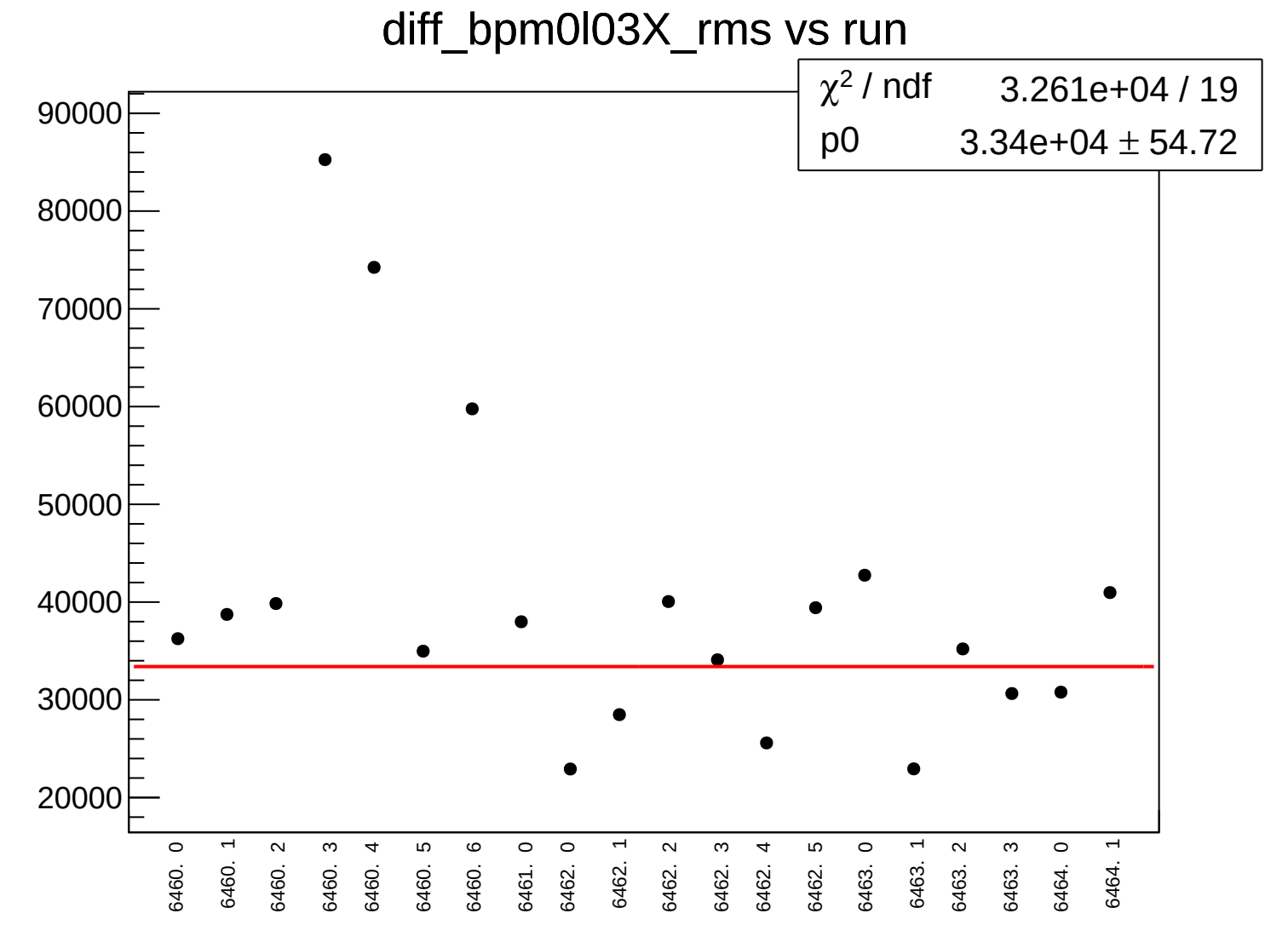

diff_bpm0l02Y_mean vs run
χ² / ndf 39.61 / 19
p0 1.381 ± 3.35
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.09
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 20
Mean −0.03932
Std Dev 1.407
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

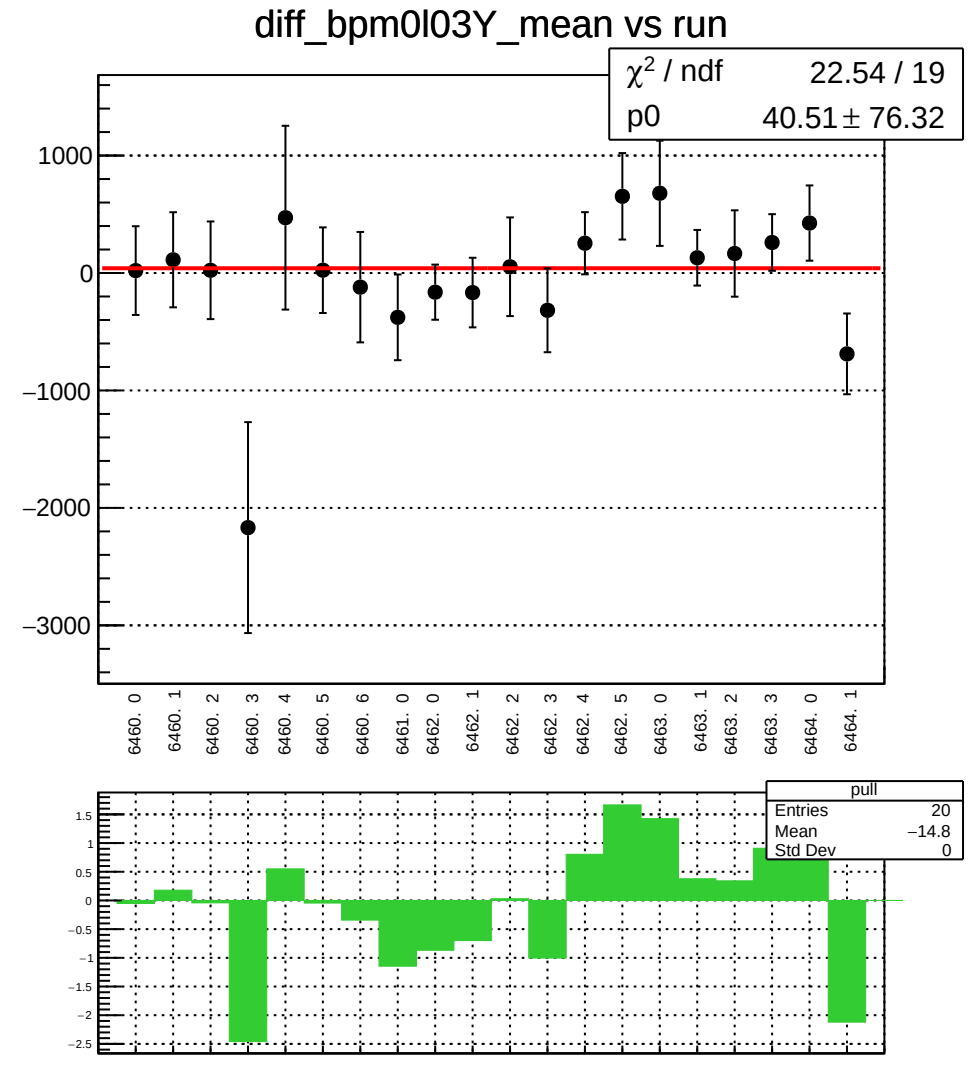

diff_bpm0l02Y_rms vs run
χ² / ndf 992.1 / 19
p0 1506 ± 2.369
1650
1600
1550
1500
1450
1400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

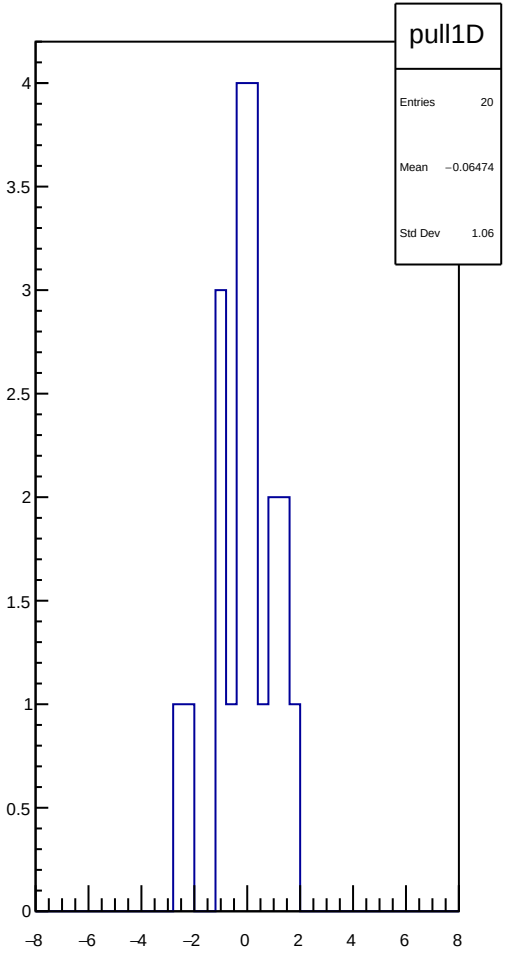

diff_bpm0l03X_mean vs run
χ² / ndf 21.24 / 19
p0 39.22 ± 77.38
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

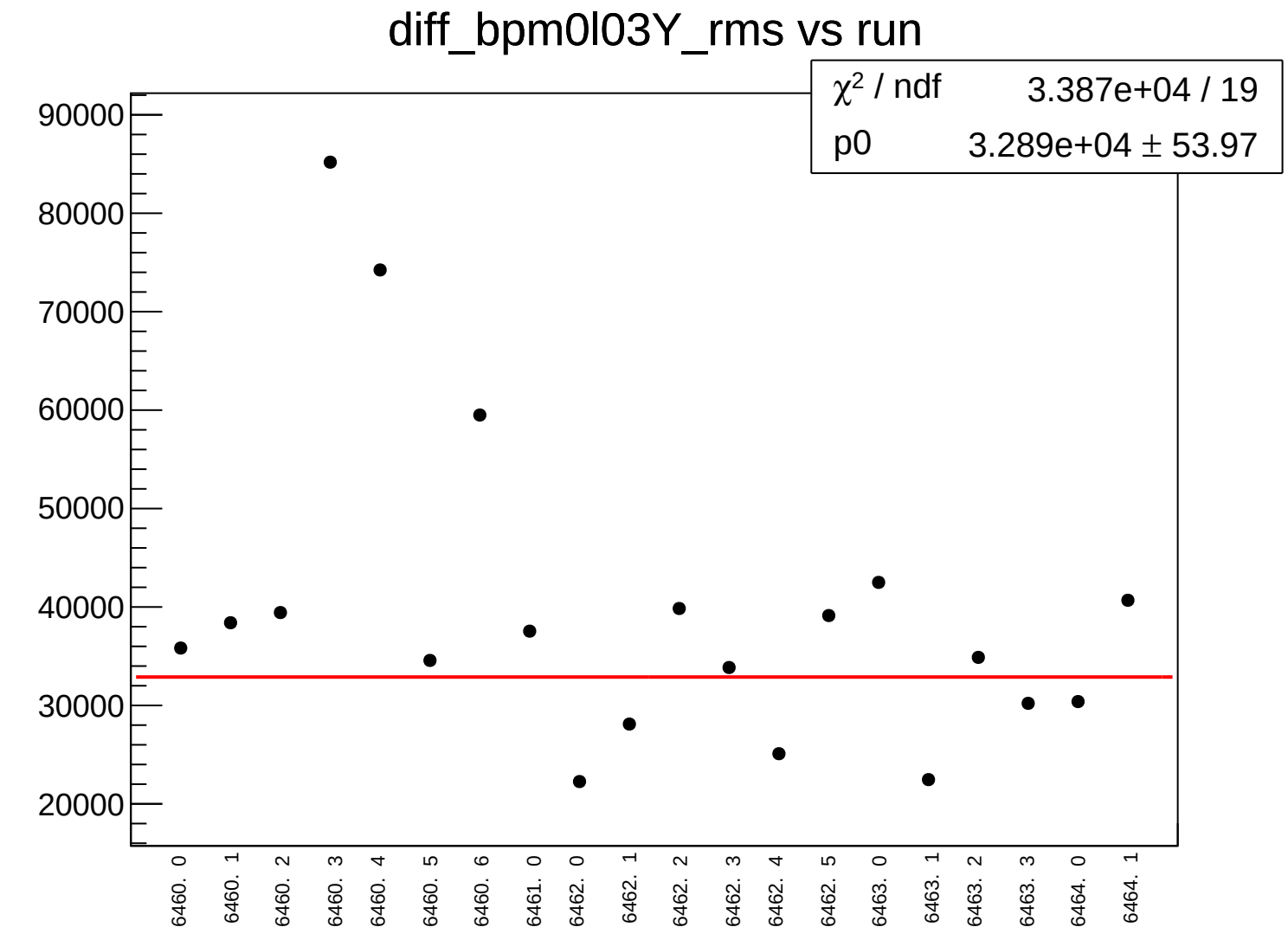

pull
Entries 20
Mean −9.422
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

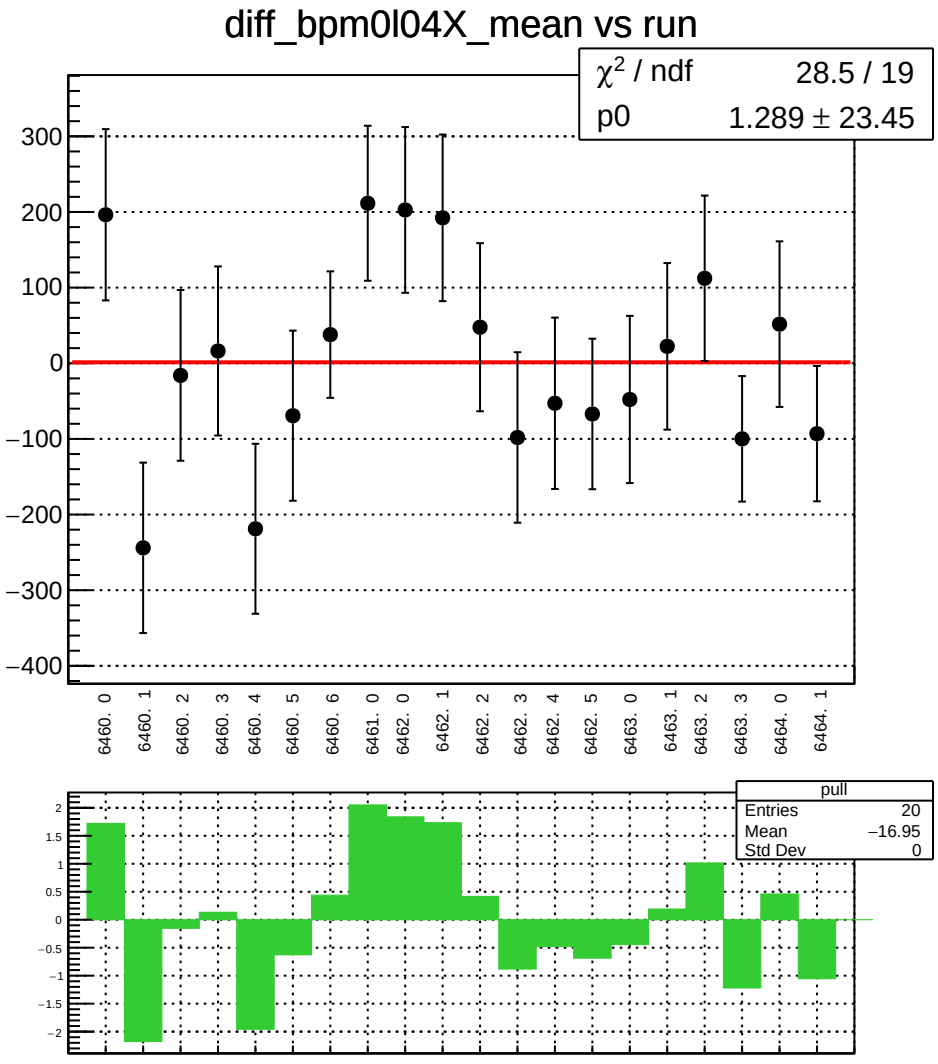

pull1D
Entries 20
Mean −0.07994
Std Dev 1.027
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

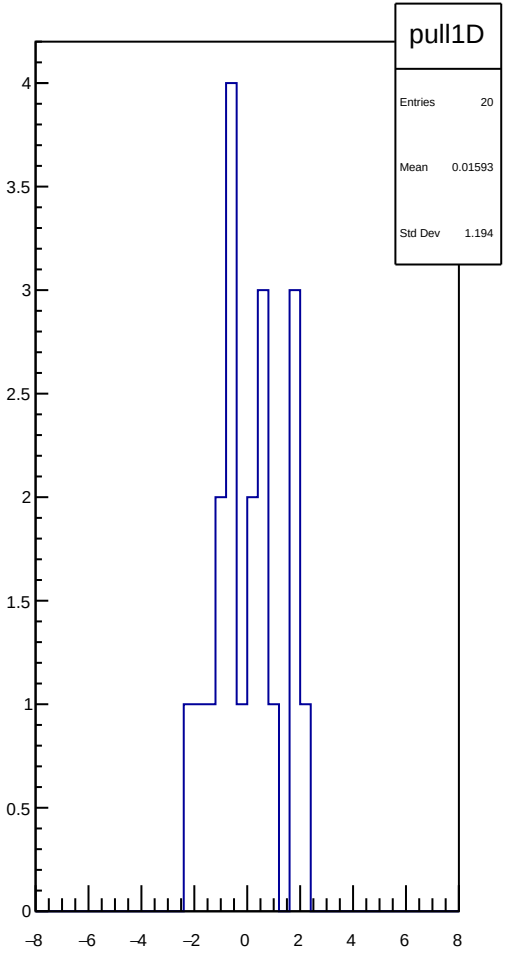

diff_bpm0l03X_rms vs run
χ^2 / ndf 3.261e+04 / 19
p0 3.34e+04 ± 54.72
90000
80000
70000
60000
50000
40000
30000
20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

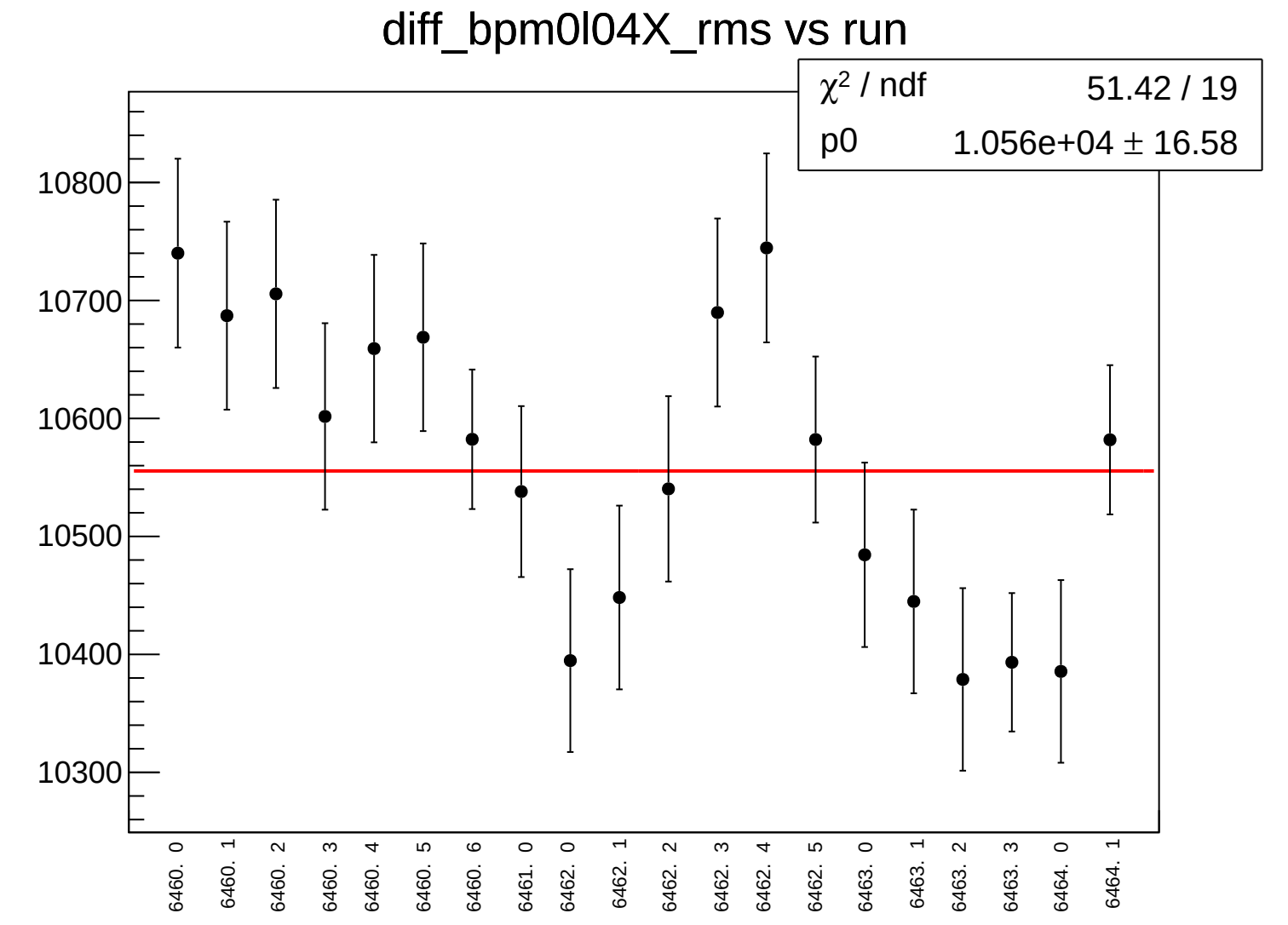

diff_bpm0l03Y_mean vs run
χ² / ndf 22.54 / 19
p0 40.51 ± 76.32
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −14.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

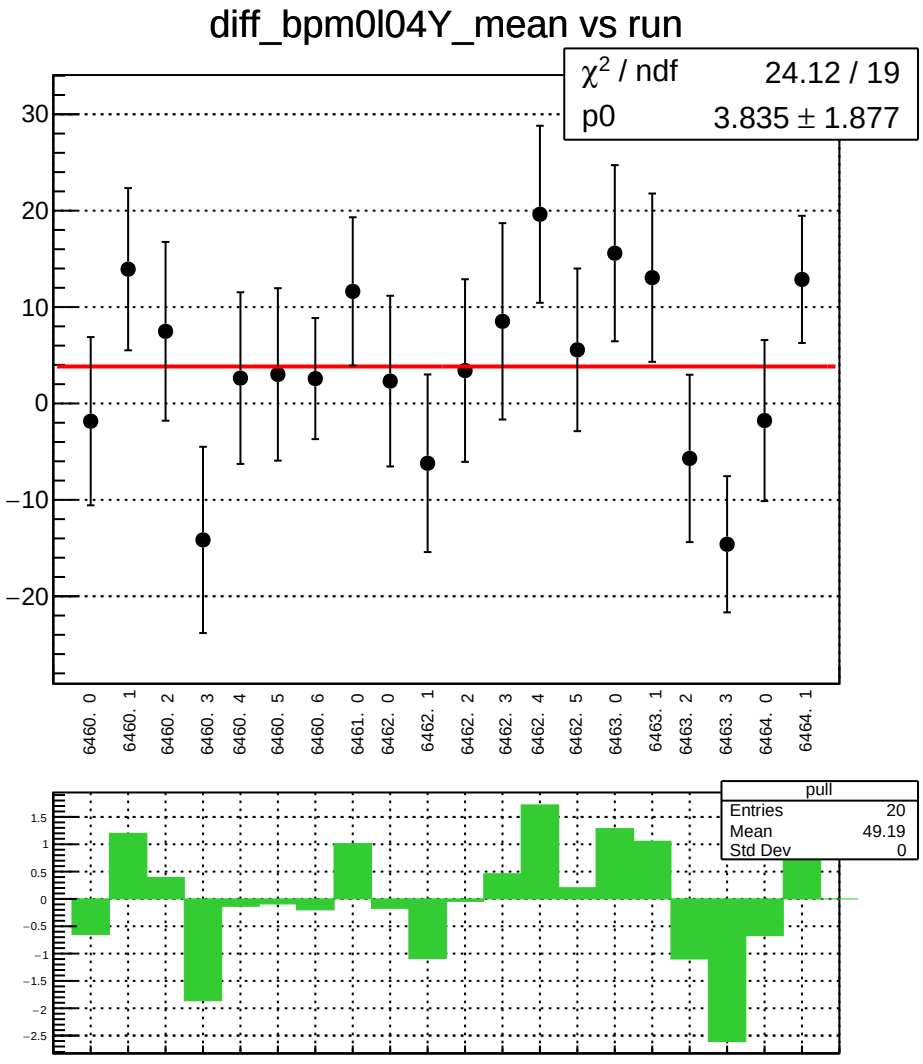

pull1D
Entries 20
Mean −0.06474
Std Dev 1.06
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

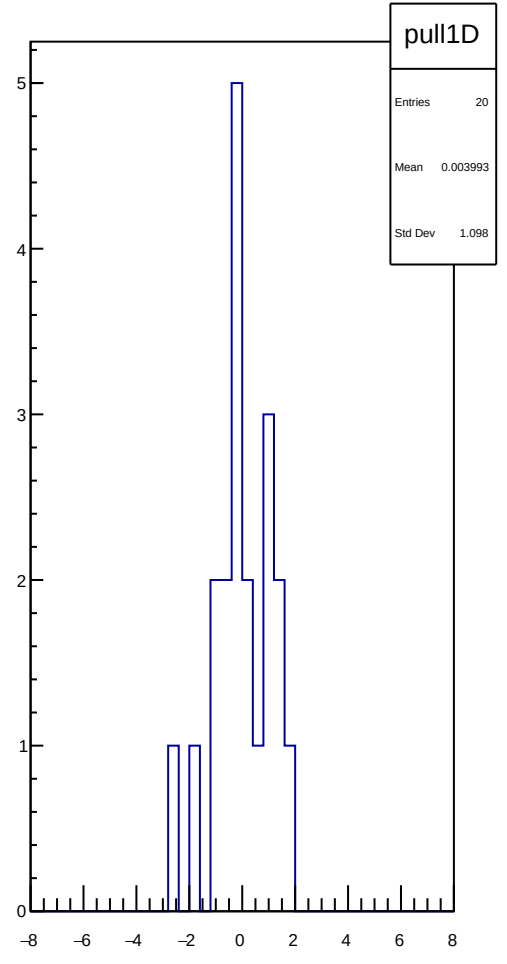

diff_bpm0l03Y_rms vs run
χ² / ndf 3.387e+04 / 19
p0 3.289e+04 ± 53.97
90000
80000
70000
60000
50000
40000
30000
20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

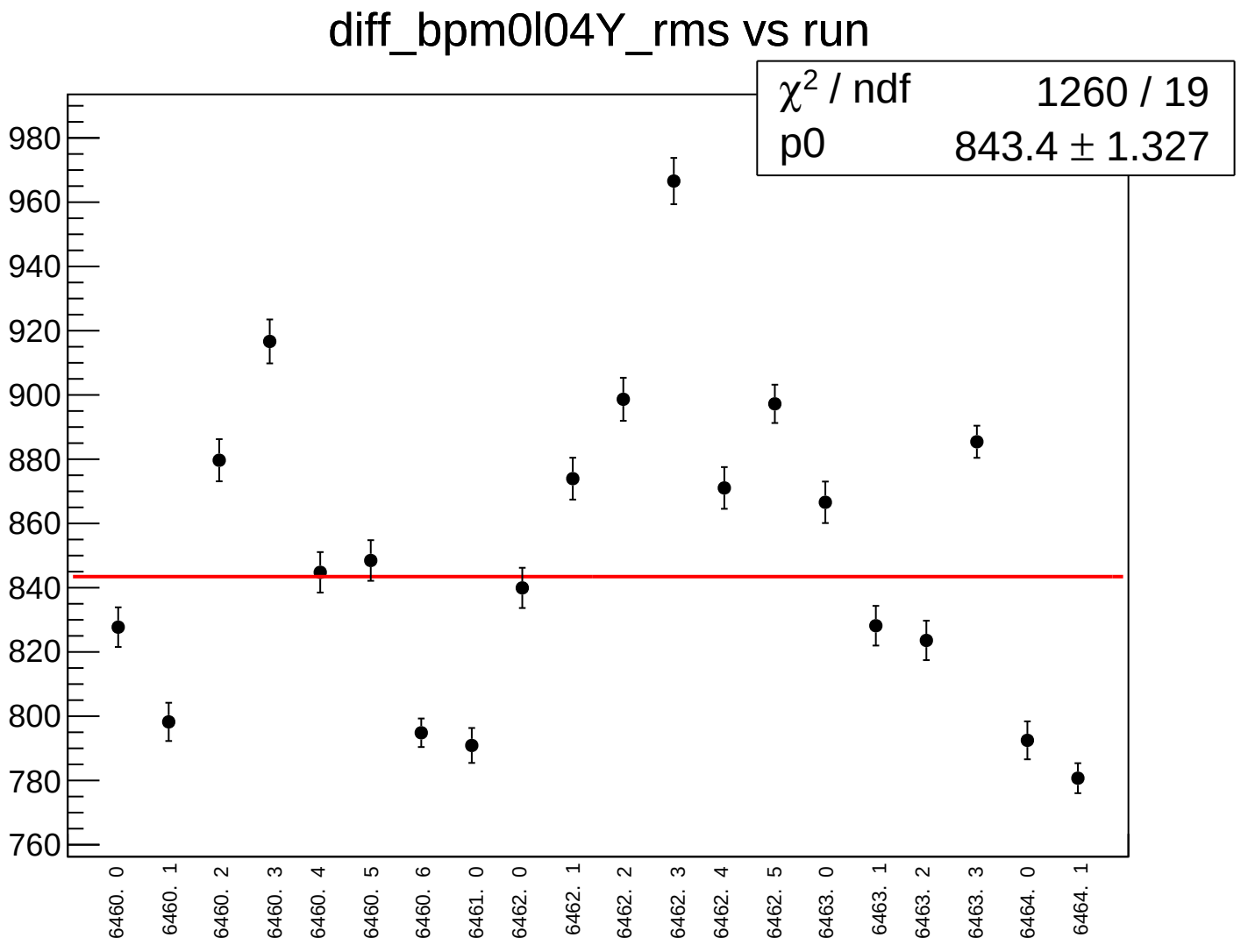

diff_bpm0l04X_mean vs run
χ² / ndf 28.5 / 19
p0 1.289 ± 23.45
300
200
100
0
−100
−200
−300
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −16.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

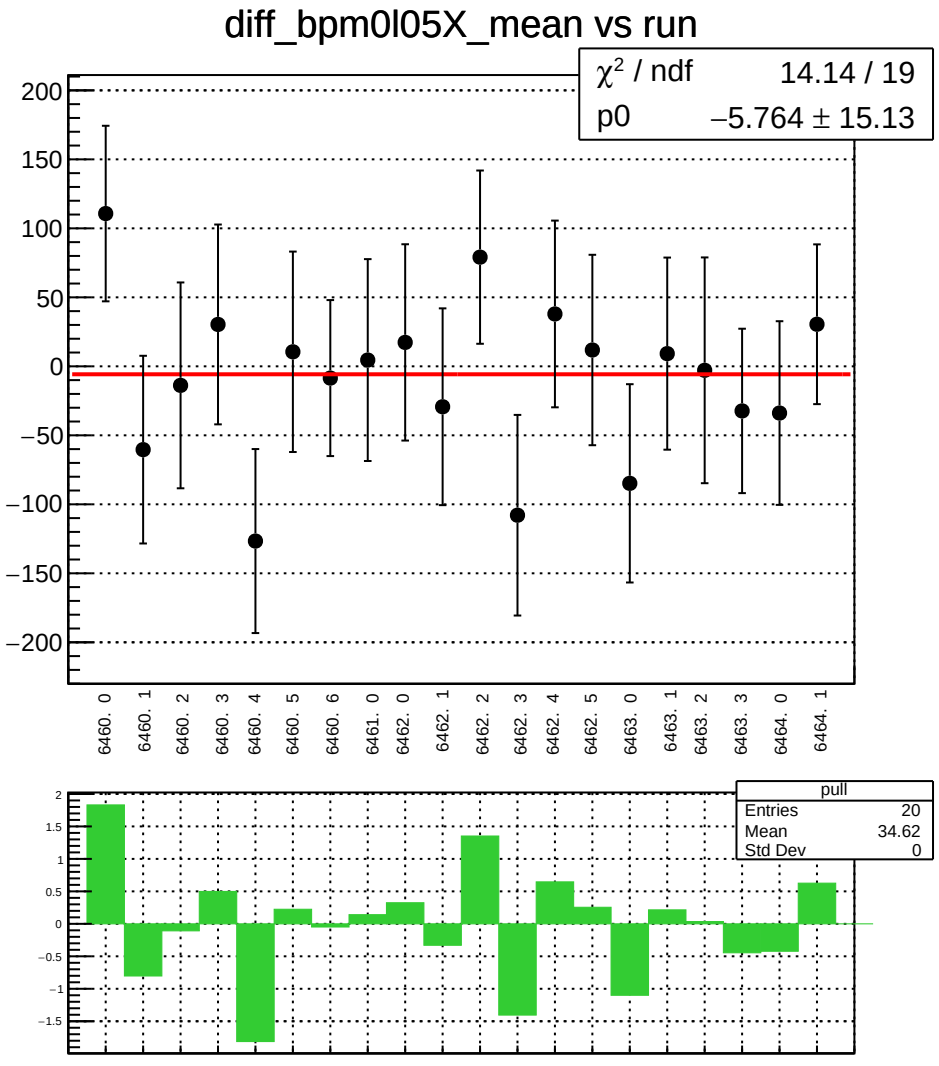

pull1D
Entries 20
Mean 0.01593
Std Dev 1.194
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

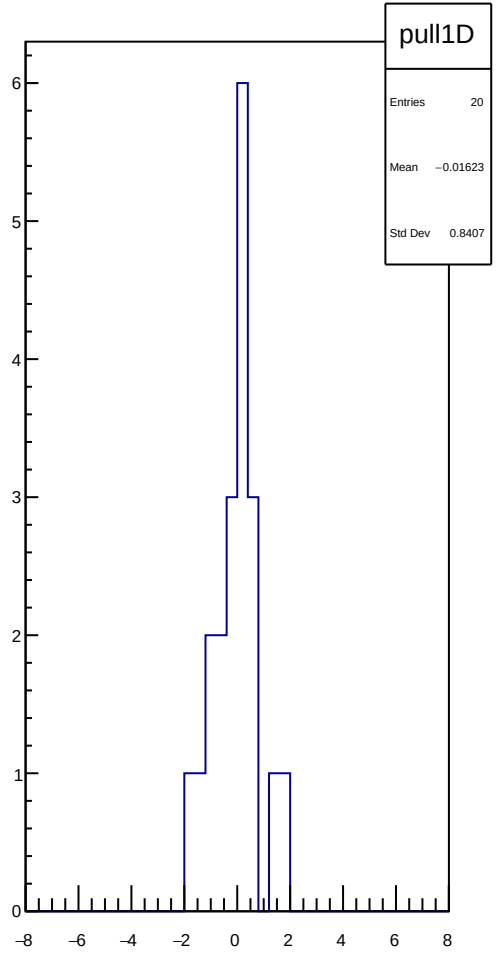

diff_bpm0l04X_rms vs run
χ² / ndf 51.42 / 19
p0 1.056e+04 ± 16.58
10800
10700
10600
10500
10400
10300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

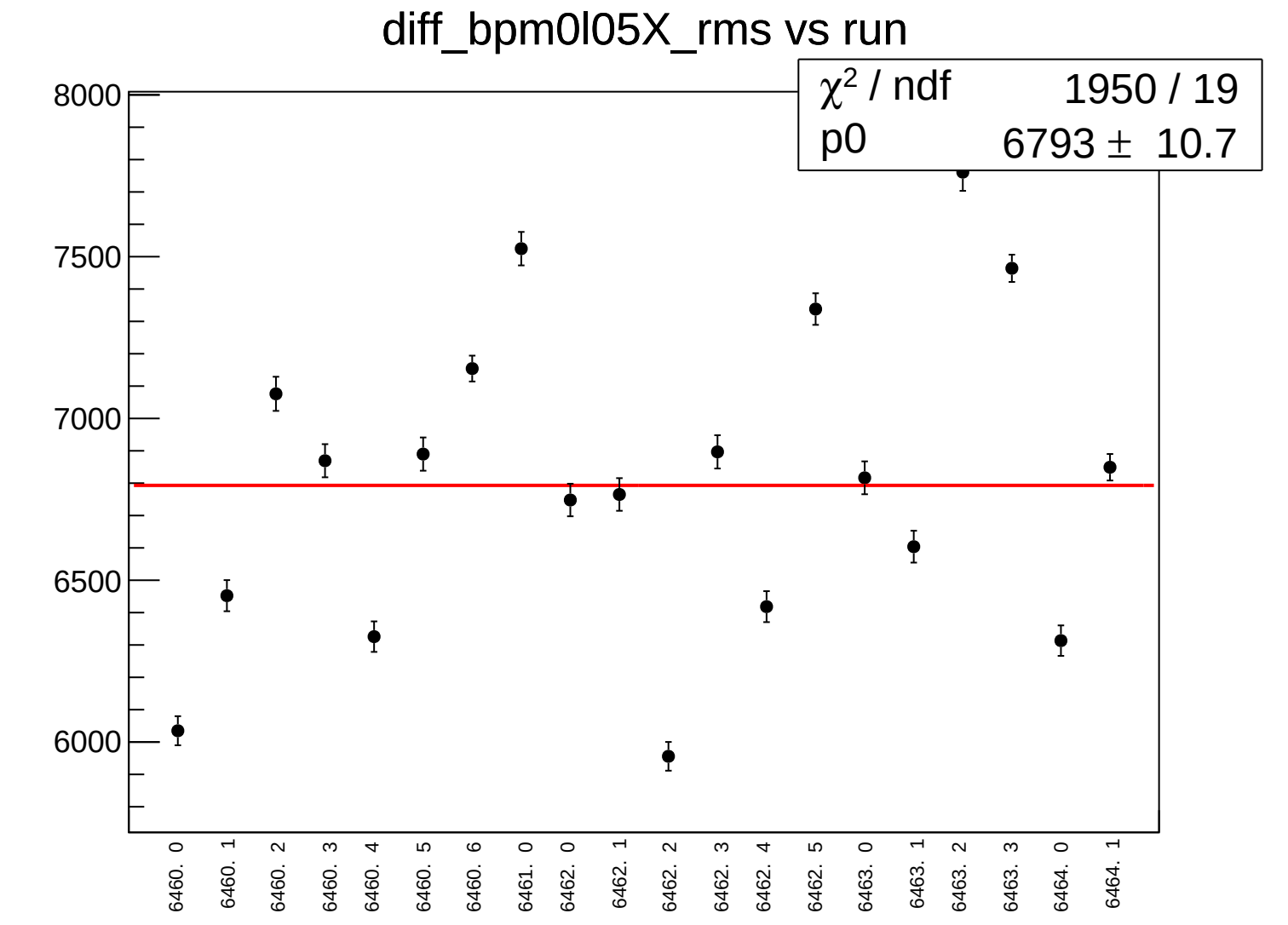

diff_bpm0l04Y_mean vs run
χ² / ndf 24.12 / 19
p0 3.835 ± 1.877
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 49.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

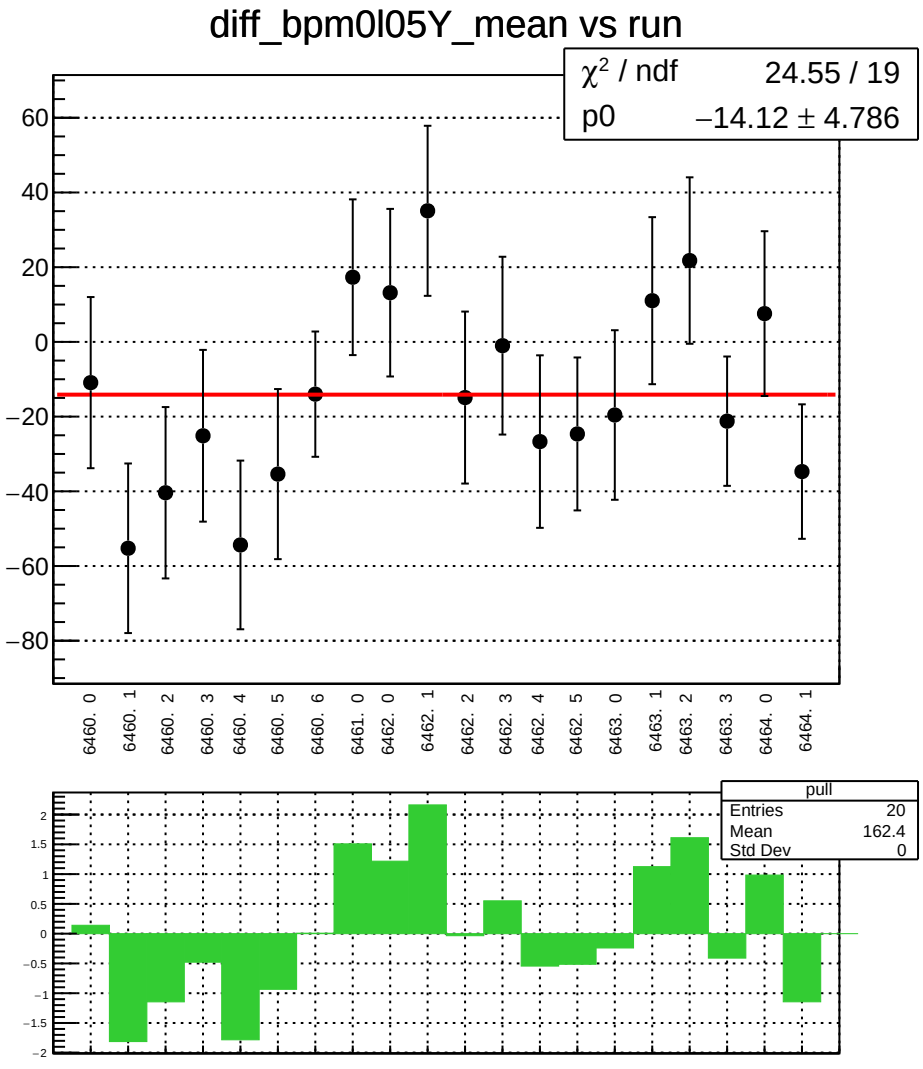

pull1D
Entries 20
Mean 0.003993
Std Dev 1.098
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

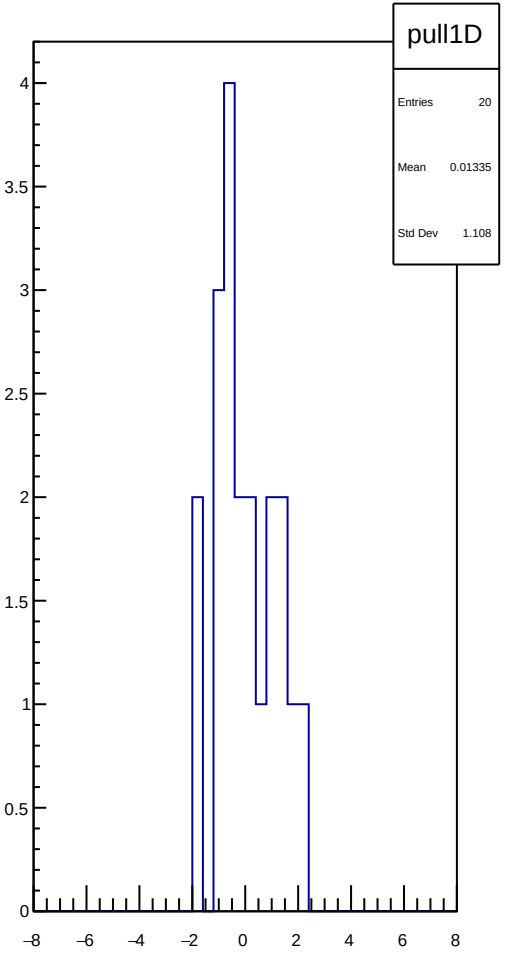

diff_bpm0l04Y_rms vs run
χ² / ndf 1260 / 19
p0 843.4 ± 1.327
980
960
940
920
900
880
860
840
820
800
780
760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

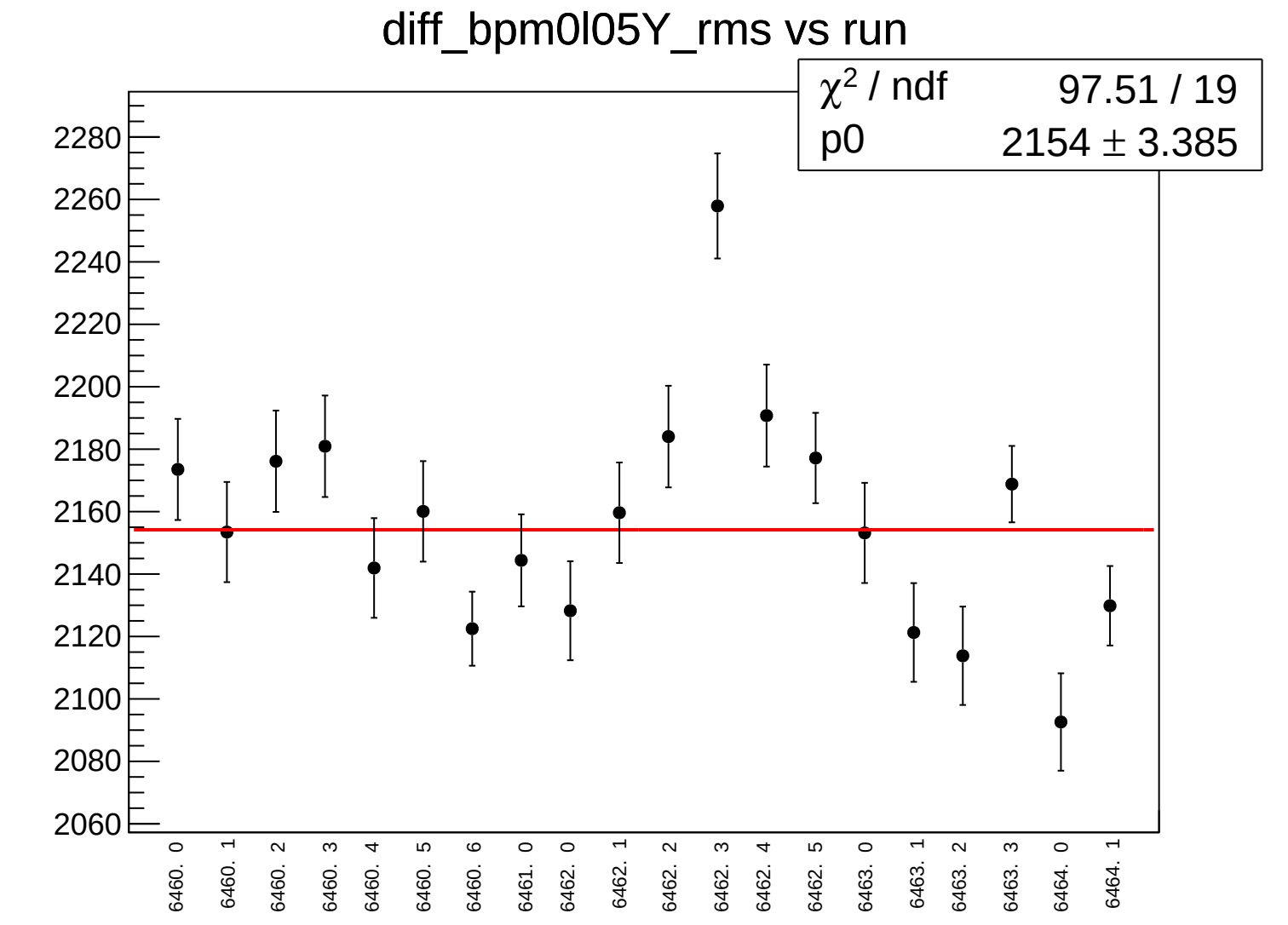

diff_bpm0l05X_mean vs run
χ² / ndf 14.14 / 19
p0 −5.764 ± 15.13
200
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

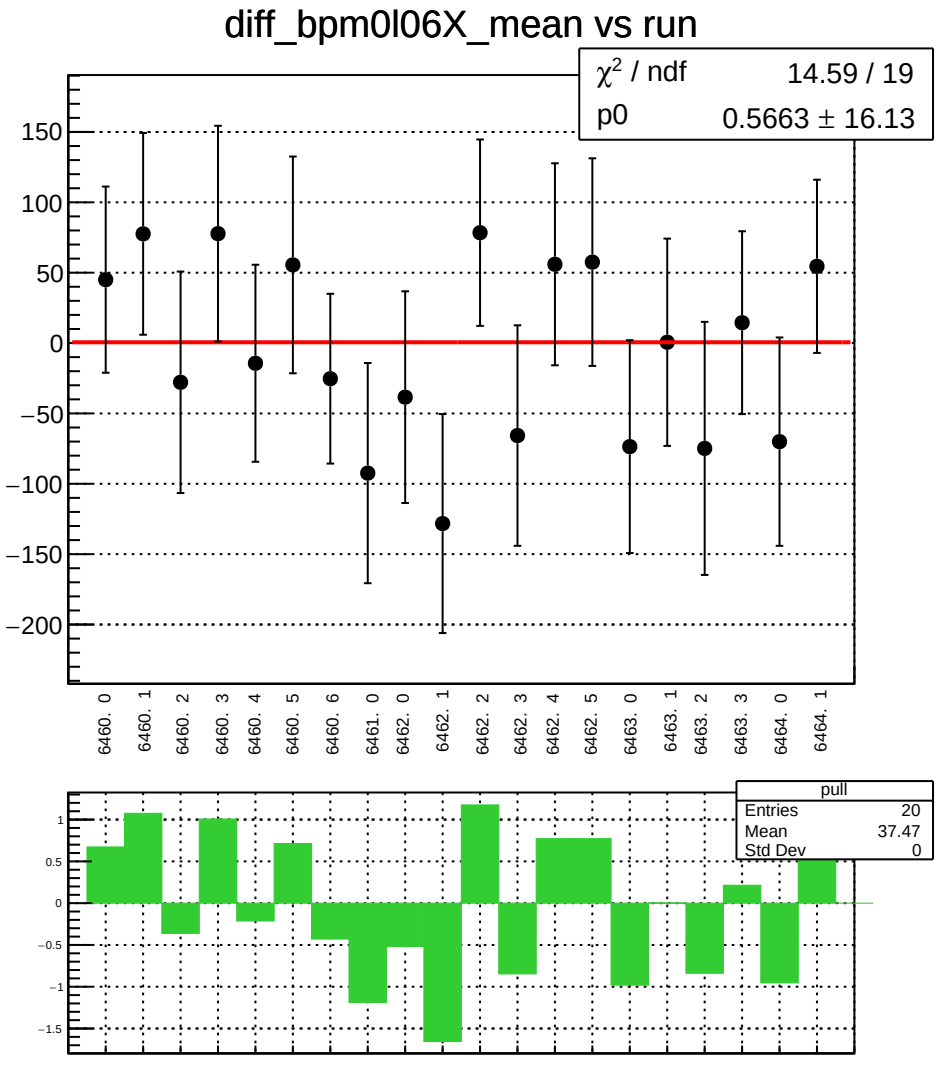

pull1D
Entries 20
Mean −0.01623
Std Dev 0.8407
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

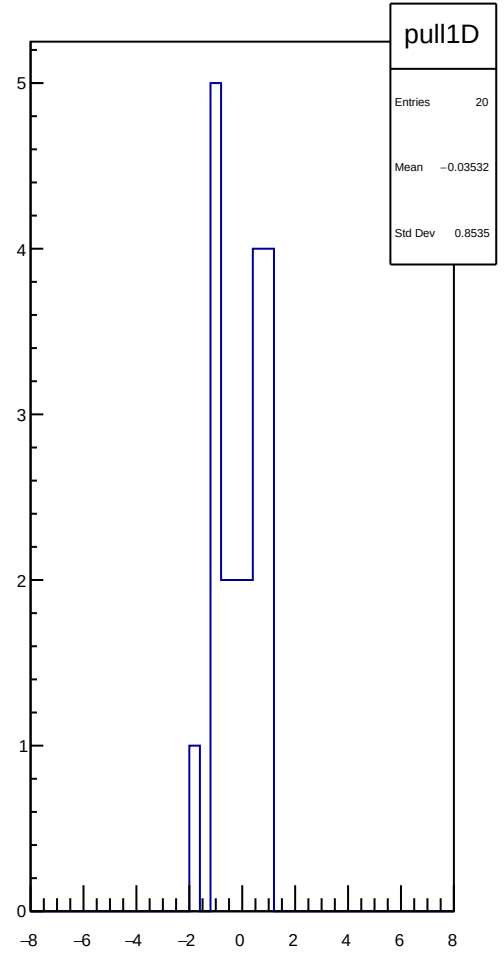

diff_bpm0l05X_rms vs run
χ² / ndf 1950 / 19
p0 6793 ± 10.7
8000
7500
7000
6500
6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

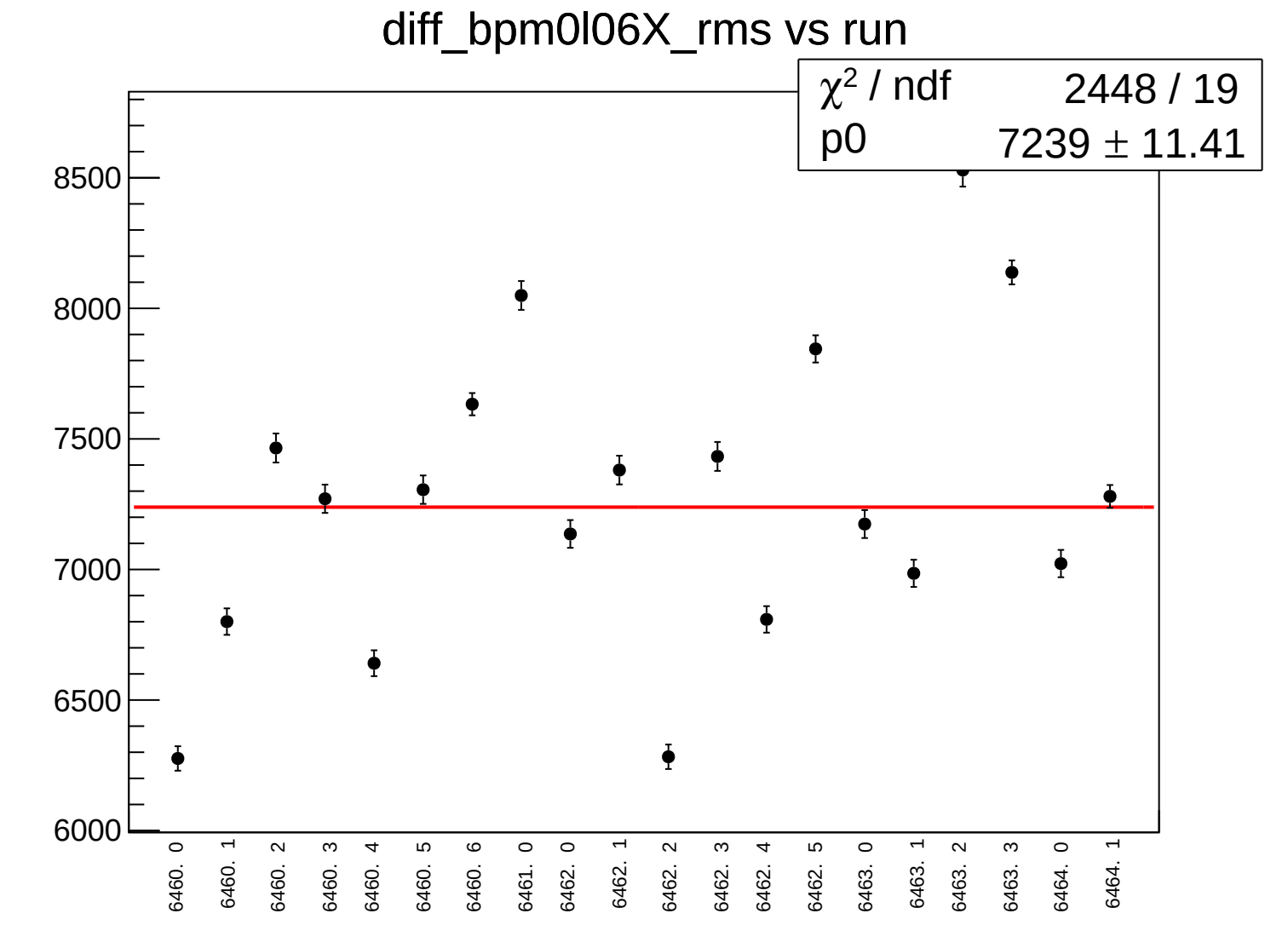

diff_bpm0l05Y_mean vs run
χ² / ndf 24.55 / 19
p0 −14.12 ± 4.786
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 162.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

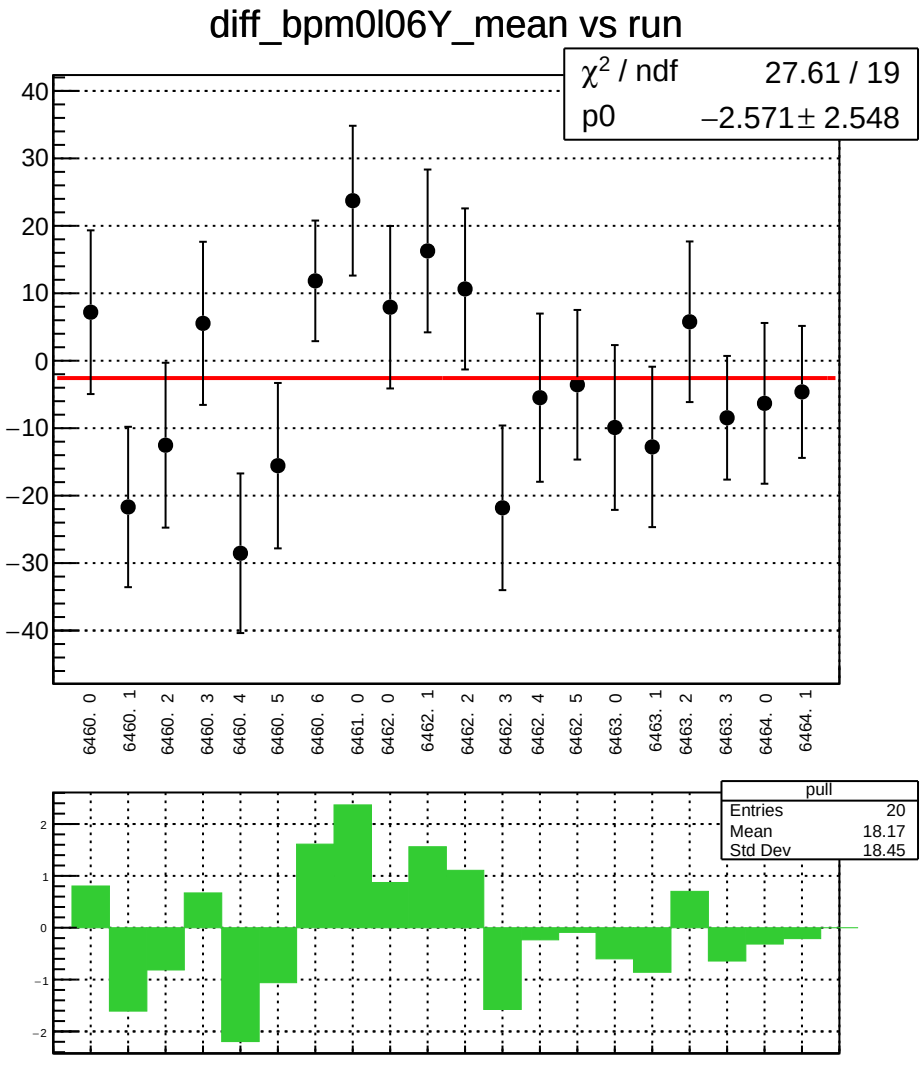

pull1D
Entries 20
Mean 0.01335
Std Dev 1.108
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

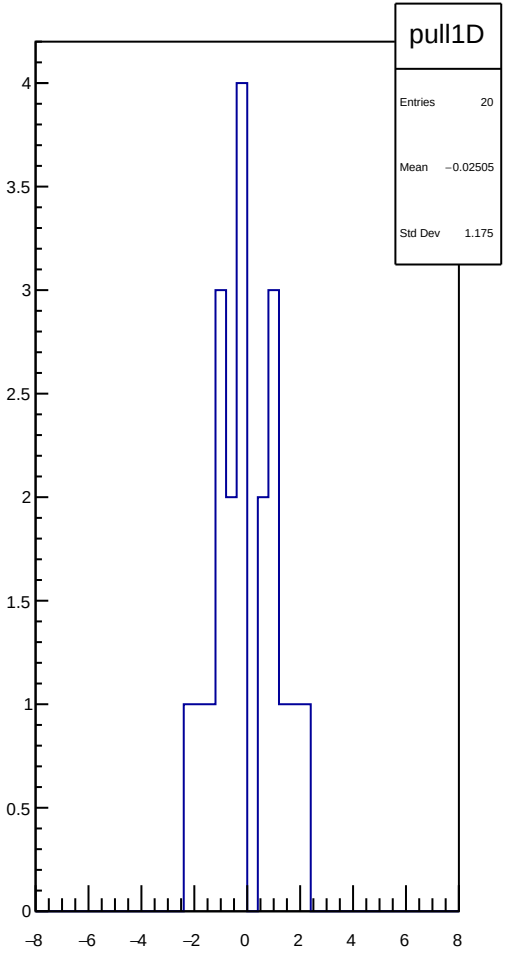

diff_bpm0l05Y_rms vs run
χ² / ndf 97.51 / 19
p0 2154 ± 3.385
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

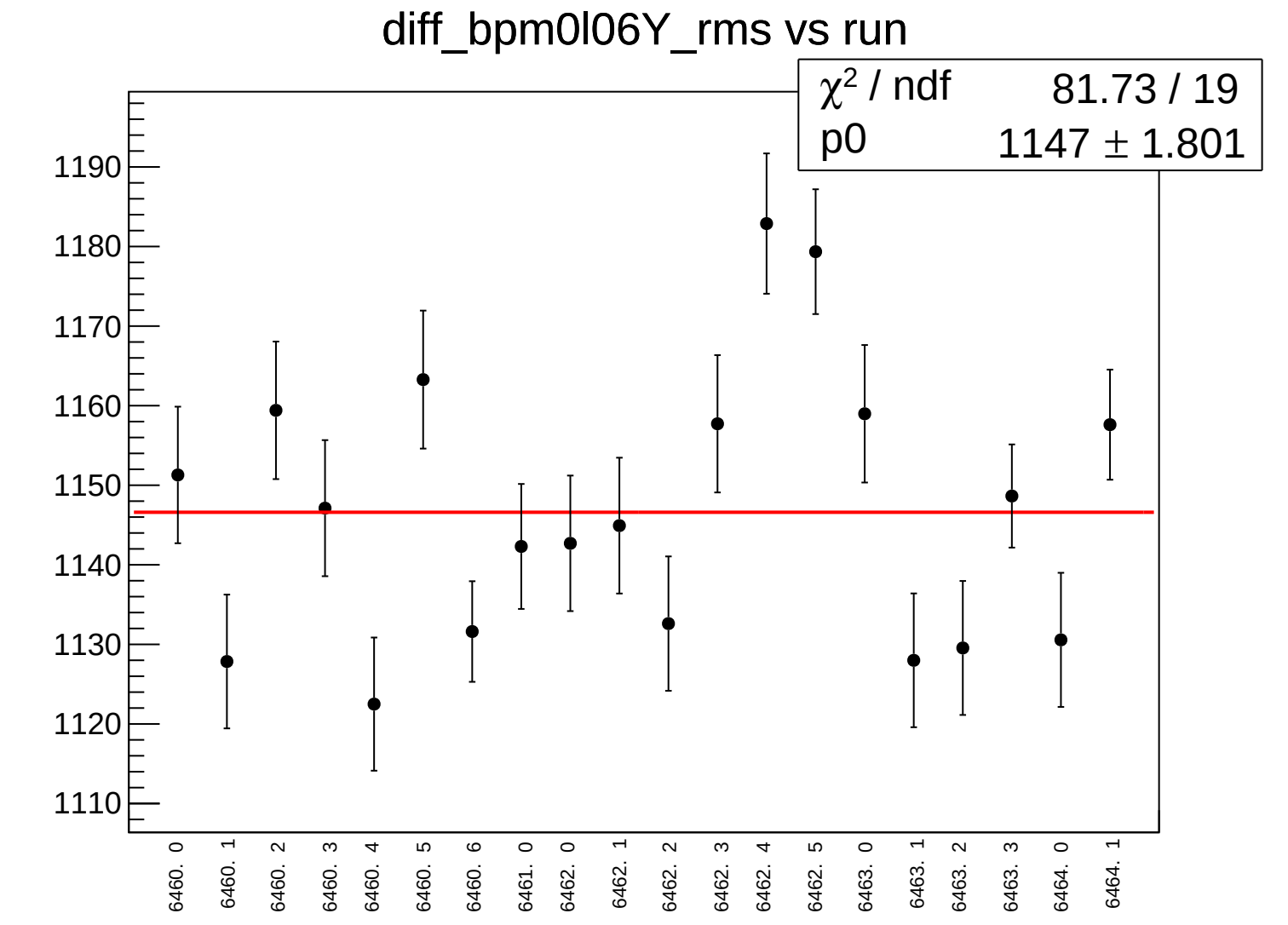

diff_bpm0l06X_mean vs run
χ² / ndf 14.59 / 19
p0 0.5663 ± 16.13
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.47
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

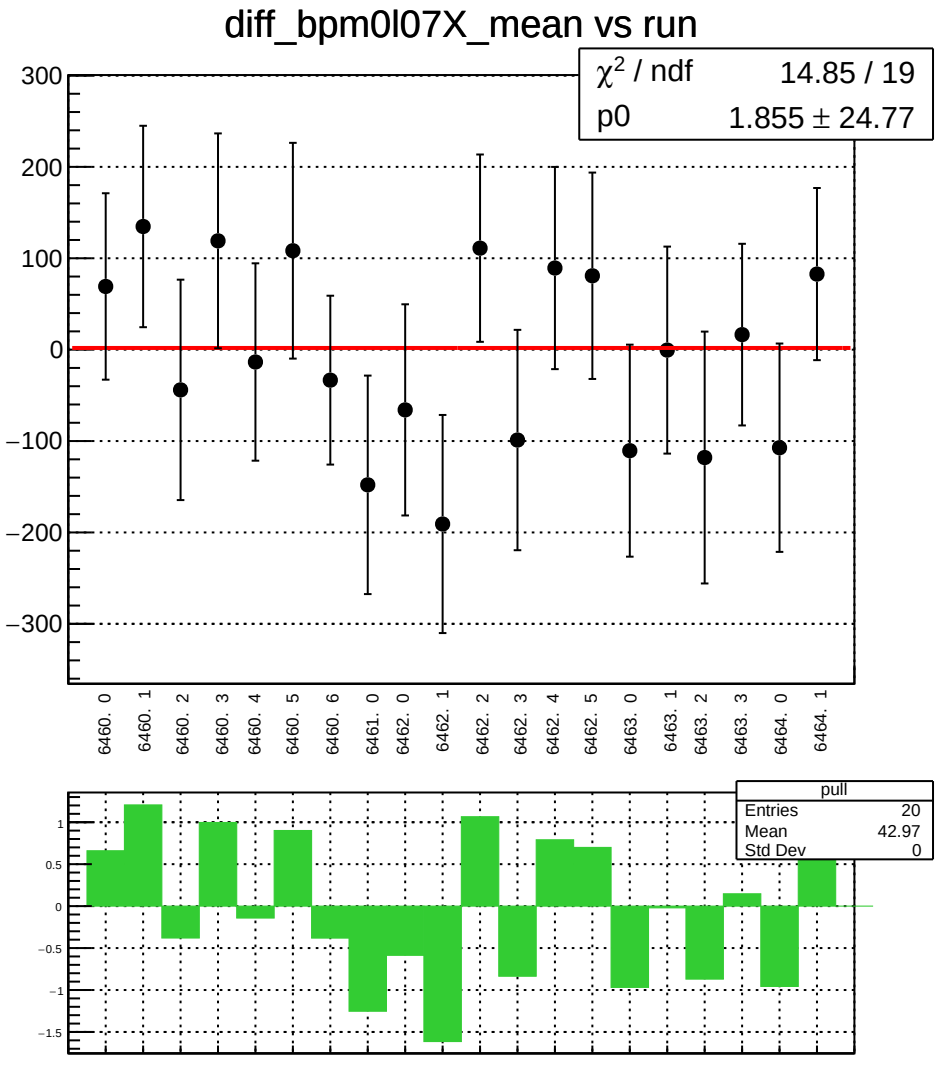

pull1D
Entries 20
Mean −0.03532
Std Dev 0.8535
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

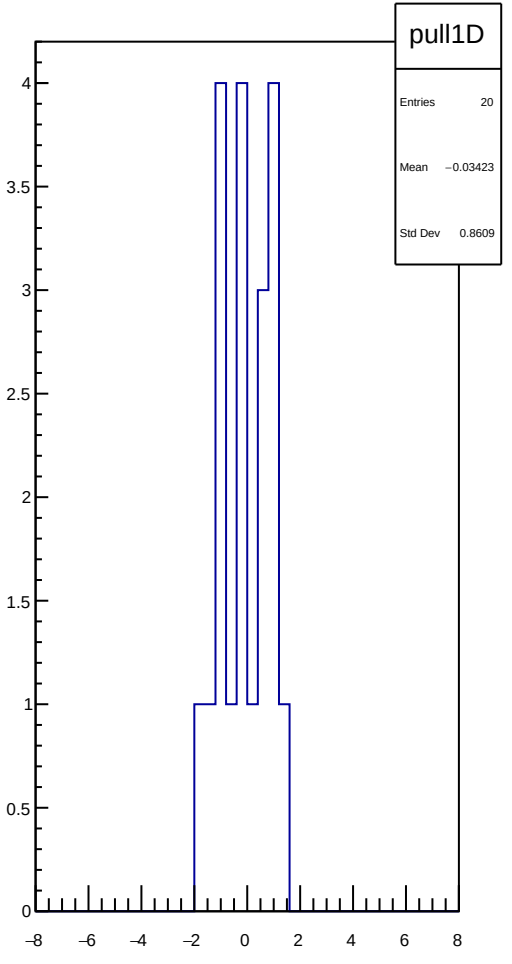

diff_bpm0l06X_rms vs run
χ² / ndf 2448 / 19
p0 7239 ± 11.41
8500
8000
7500
7000
6500
6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

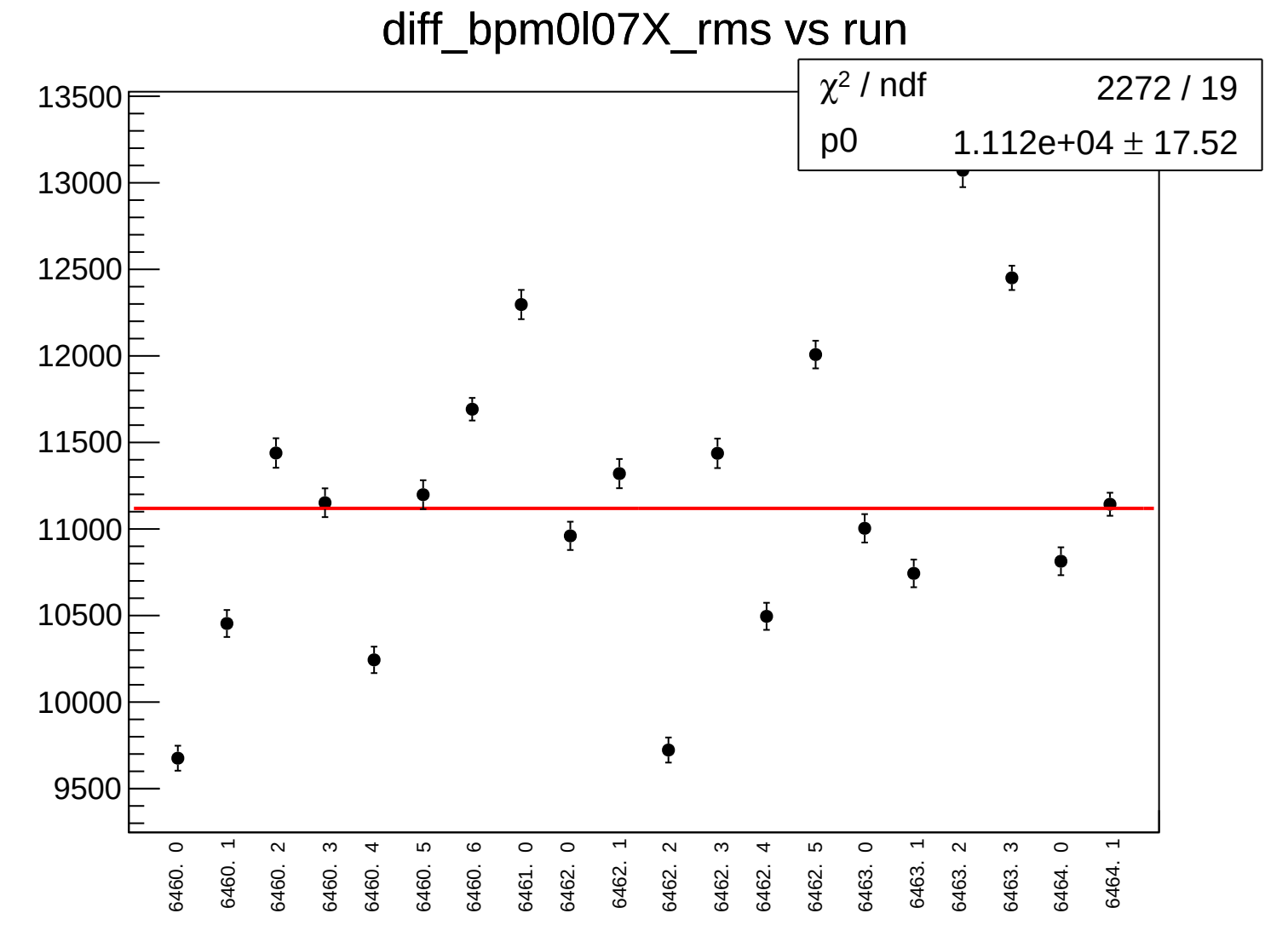

diff_bpm0l06Y_mean vs run
χ² / ndf 27.61 / 19
p0 −2.571± 2.548
40
30
20
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.17
Std Dev 18.45
2
1
0
−1
−2

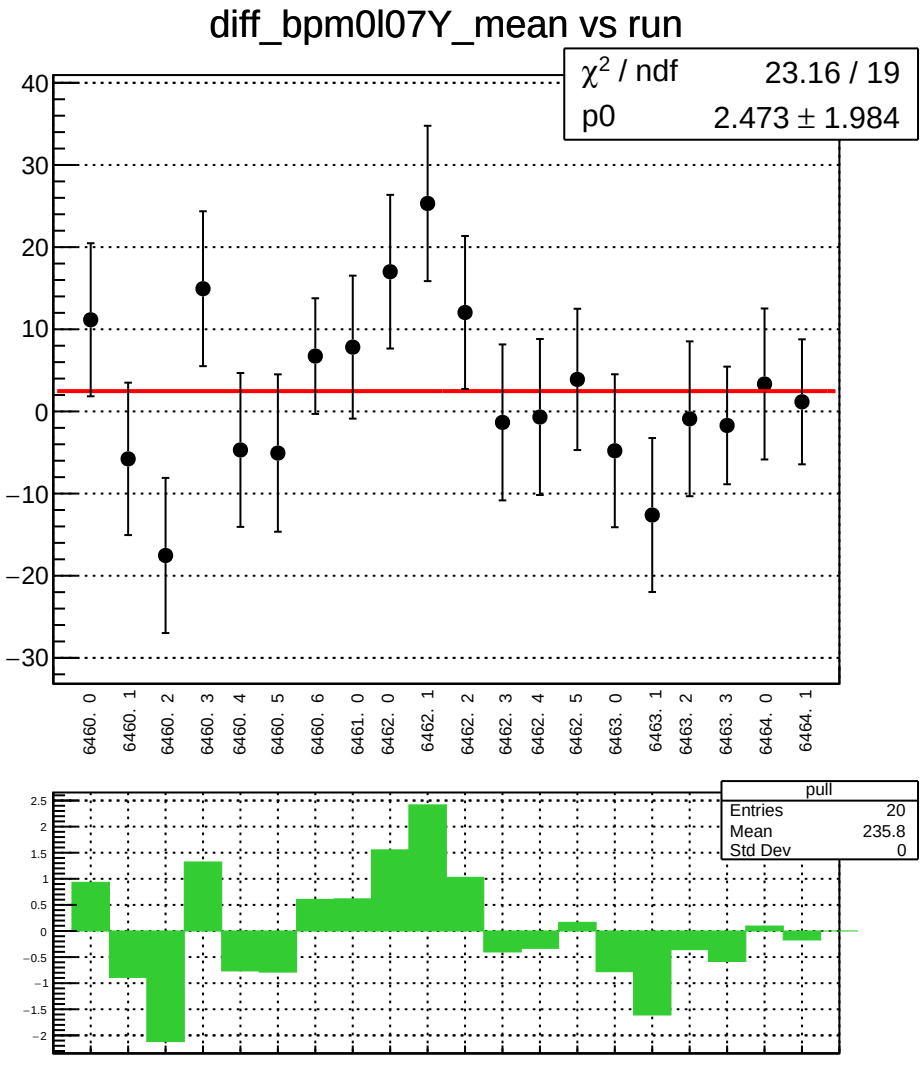

pull1D
Entries 20
Mean −0.02505
Std Dev 1.175
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

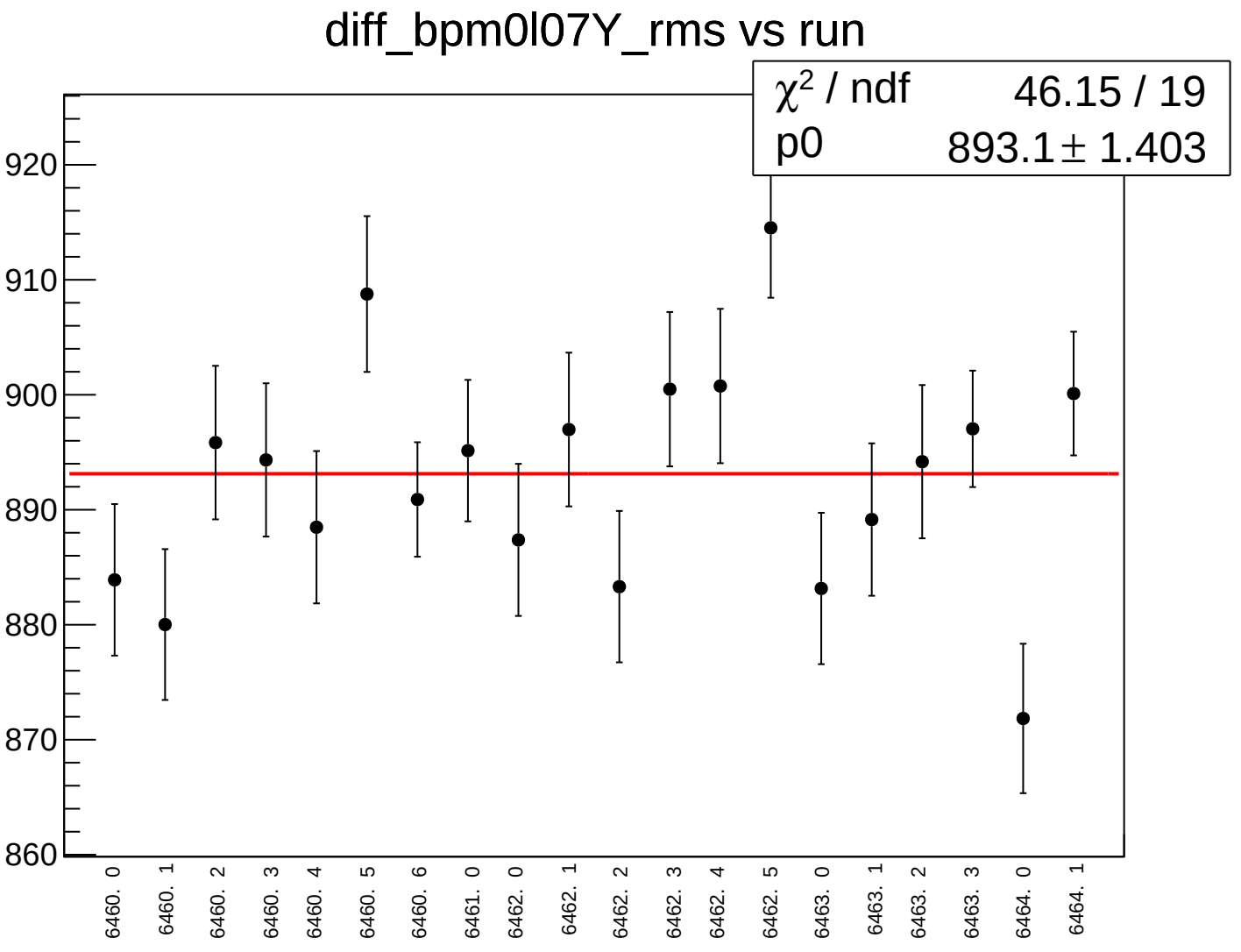

diff_bpm0l06Y_rms vs run
χ² / ndf 81.73 / 19
p0 1147 ± 1.801
1190
1180
1170
1160
1150
1140
1130
1120
1110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

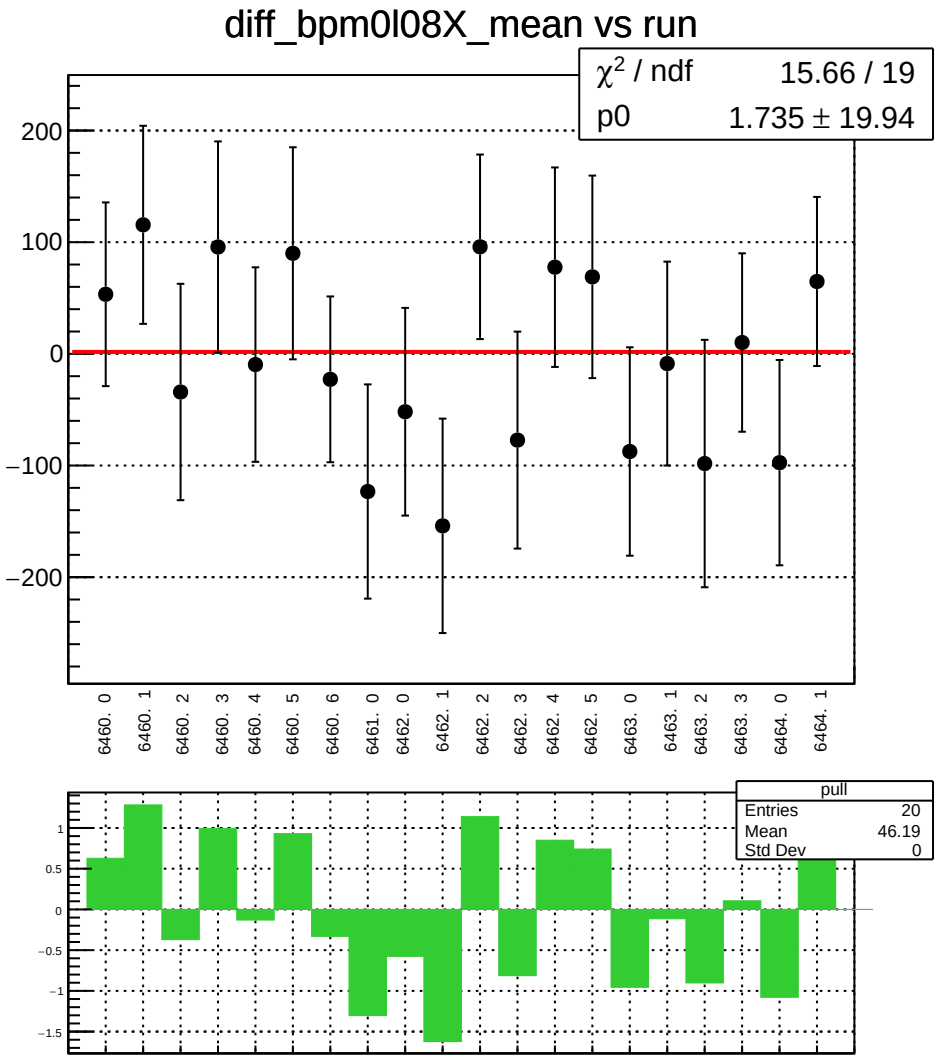

diff_bpm0l07X_mean vs run
χ² / ndf 14.85 / 19
p0 1.855 ± 24.77
300
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 42.97
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

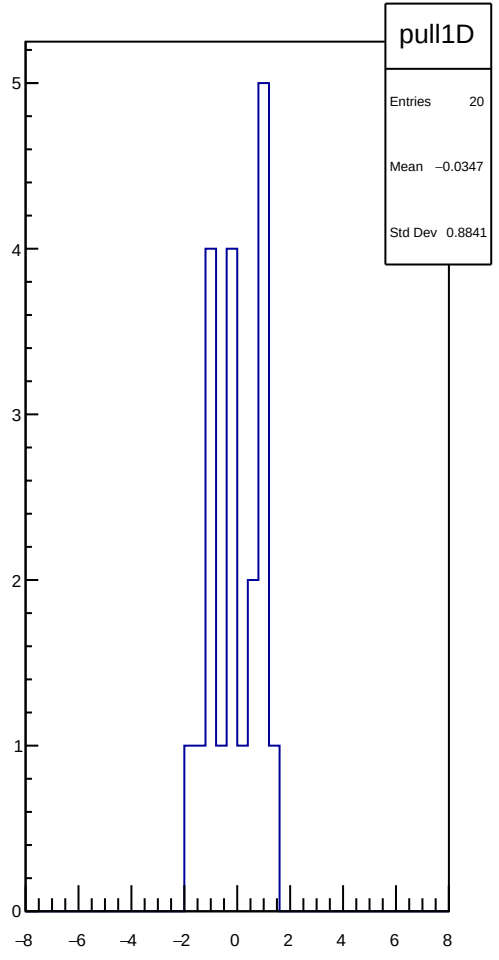

pull1D
Entries 20
Mean −0.03423
Std Dev 0.8609
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

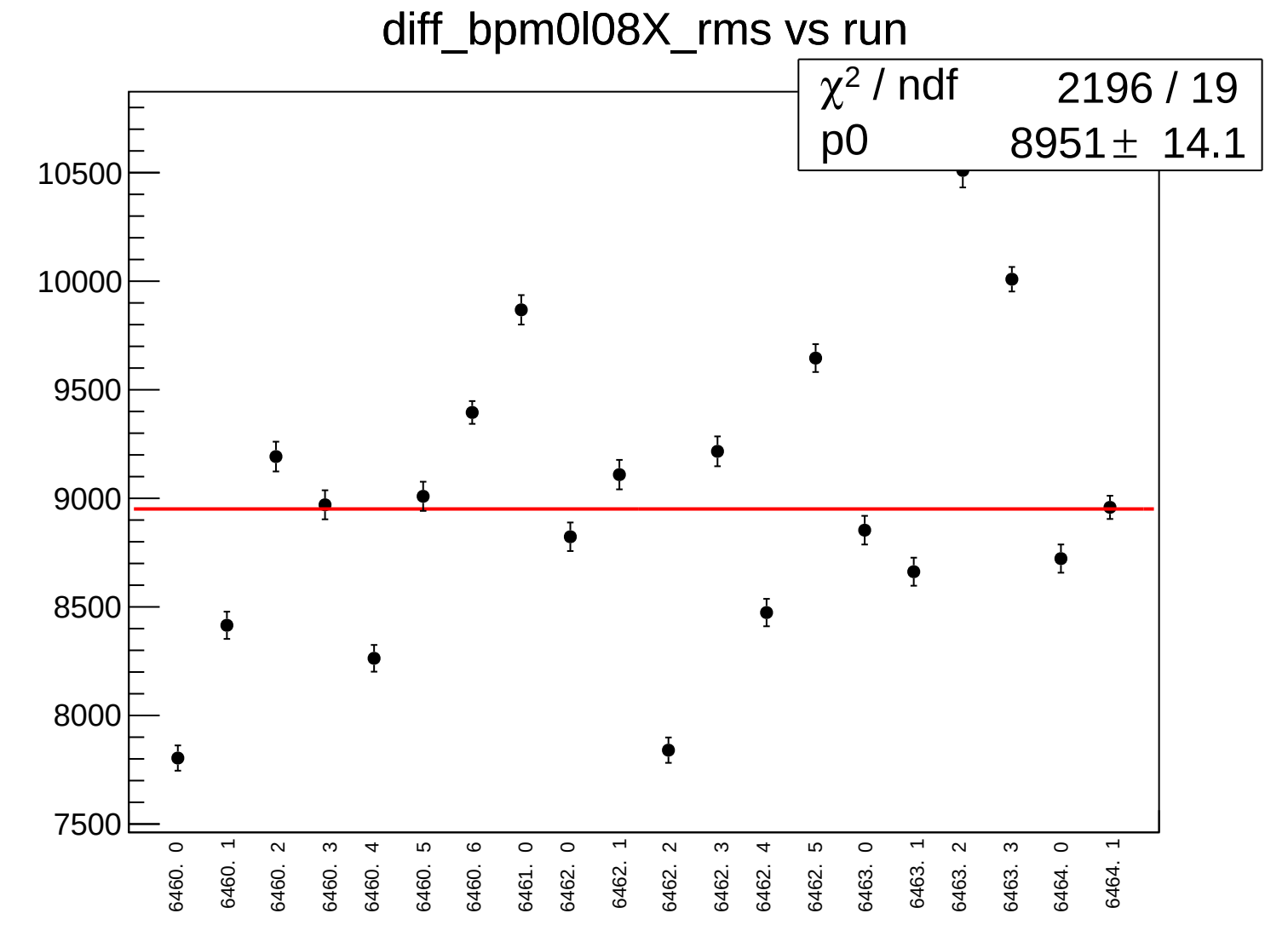

diff_bpm0l07X_rms vs run
χ² / ndf 2272 / 19
p0 1.112e+04 ± 17.52
13500
13000
12500
12000
11500
11000
10500
10000
9500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

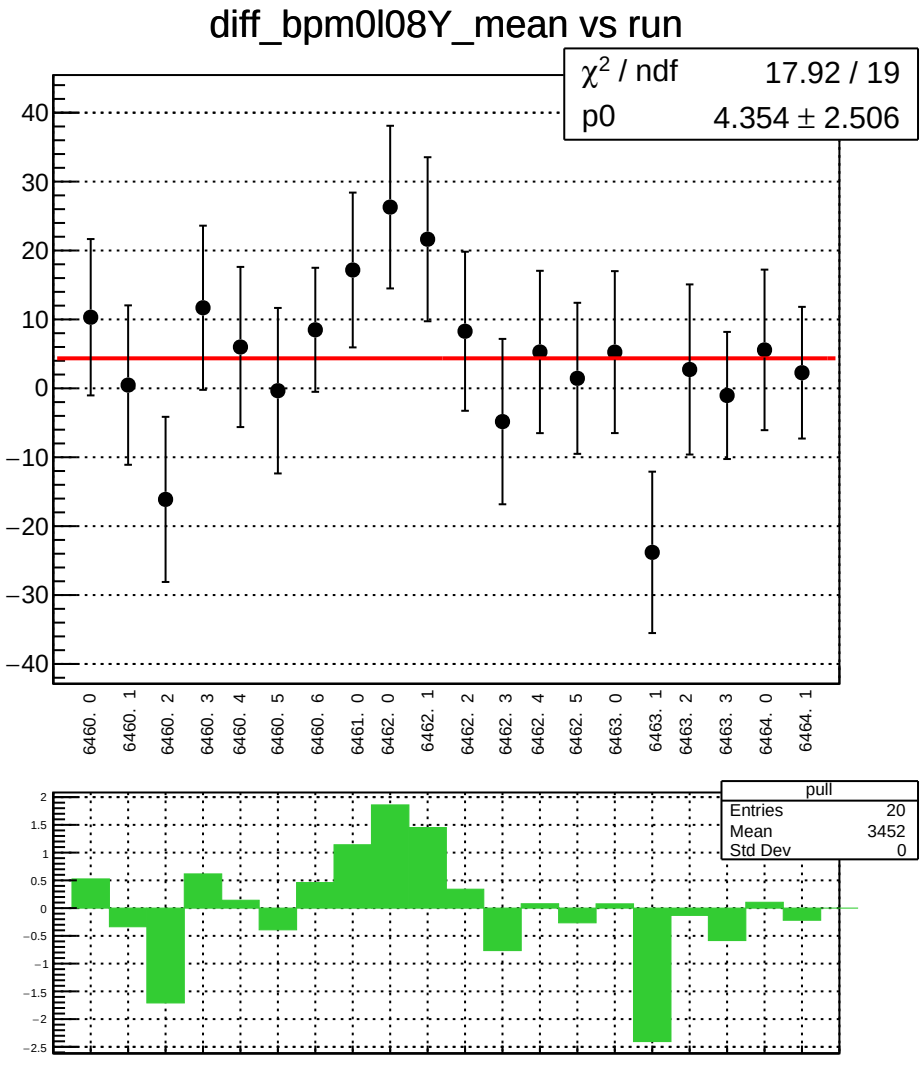

diff_bpm0l07Y_mean vs run
χ² / ndf 23.16 / 19
p0 2.473 ± 1.984
40
30
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 235.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.003028
Std Dev 1.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

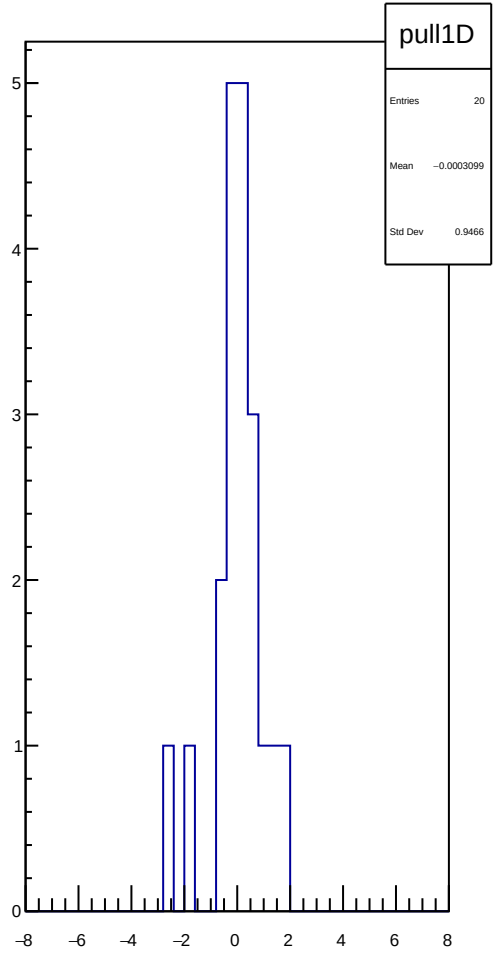

diff_bpm0l07Y_rms vs run
χ² / ndf 46.15 / 19
p0 893.1 ± 1.403
920
910
900
890
880
870
860
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

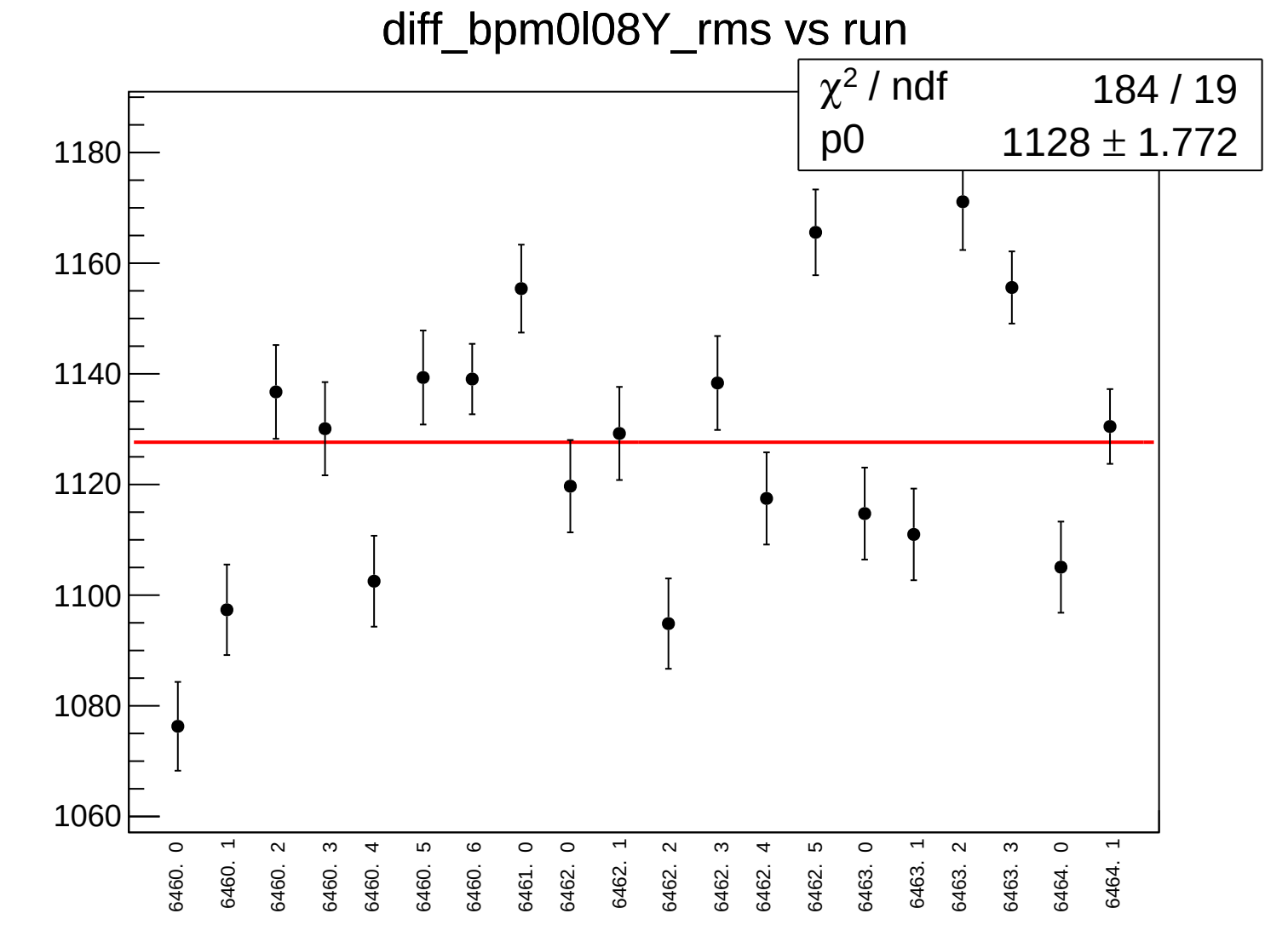

diff_bpm0l08X_mean vs run
χ² / ndf 15.66 / 19
p0 1.735 ± 19.94
200
100
0
−100
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.19
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

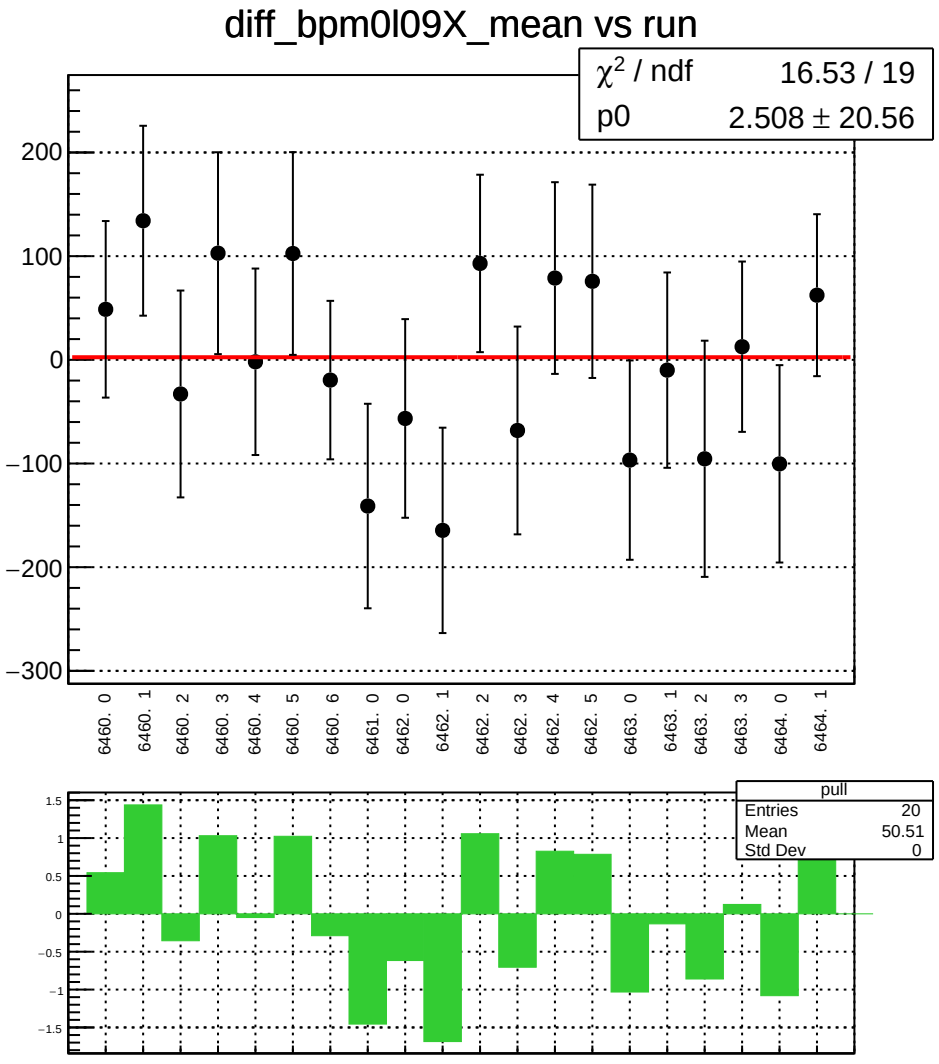

pull1D
Entries 20
Mean −0.0347
Std Dev 0.8841
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

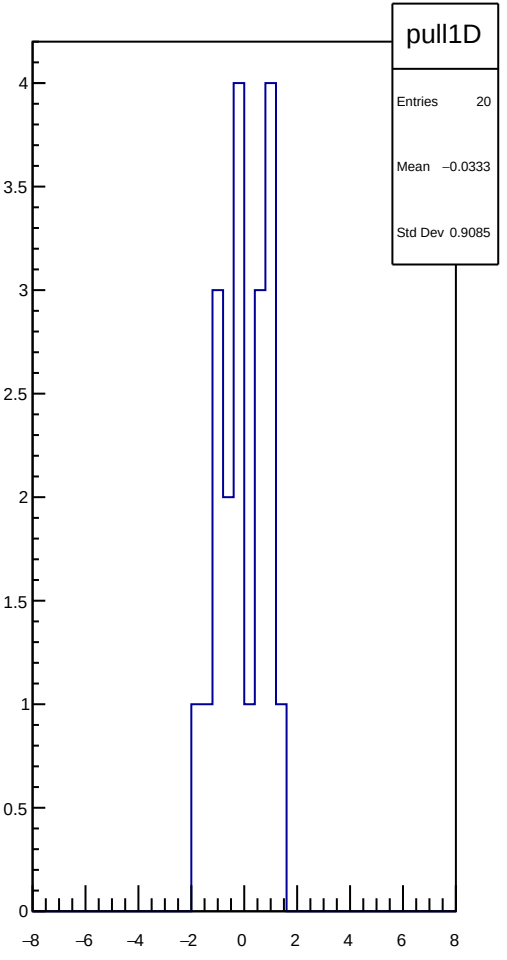

diff_bpm0l08X_rms vs run
χ² / ndf 2196 / 19
p0 8951 ± 14.1
10500
10000
9500
9000
8500
8000
7500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

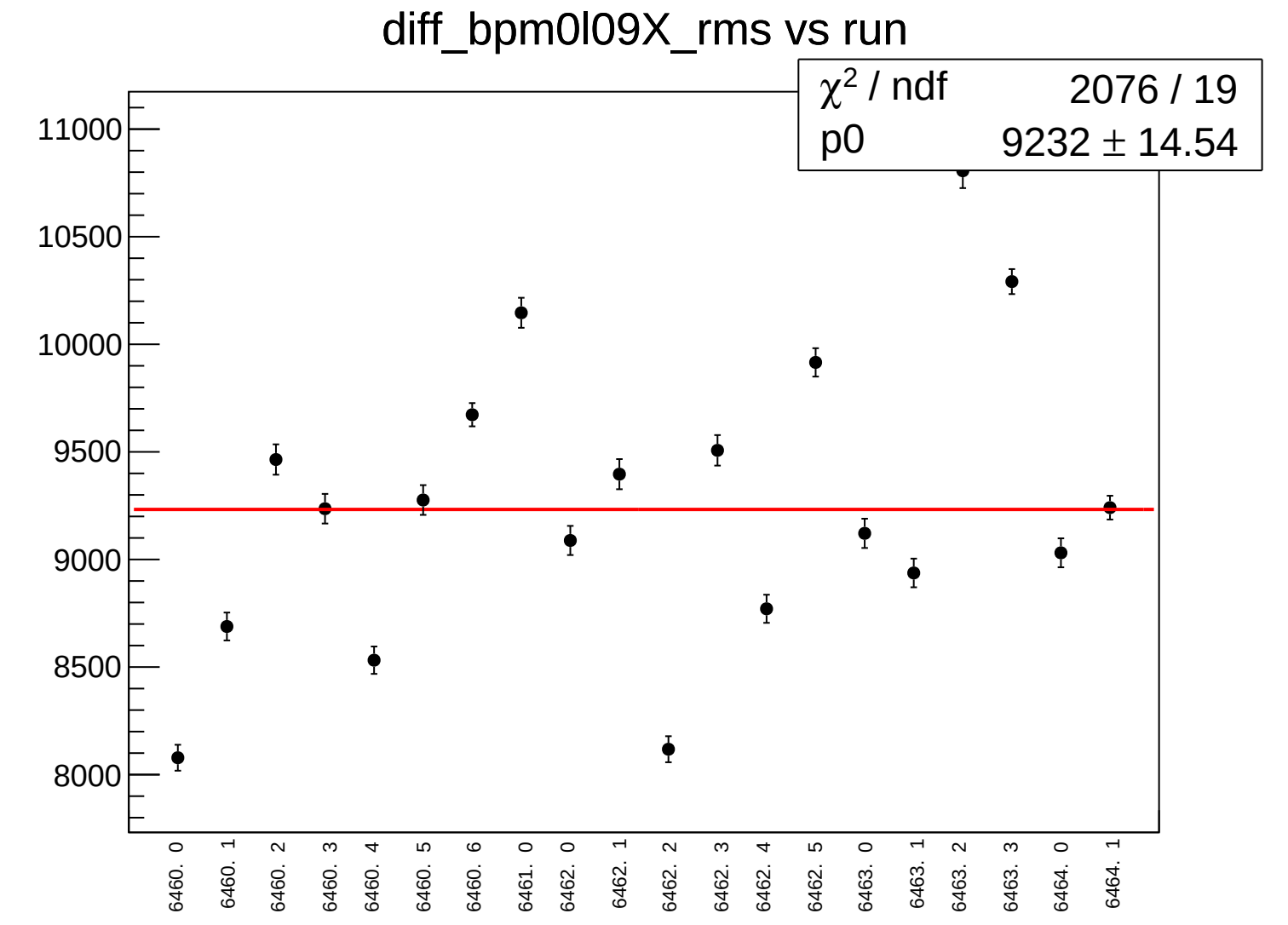

diff_bpm0l08Y_mean vs run
χ² / ndf 17.92 / 19
p0 4.354 ± 2.506
40
30
20
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3452
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

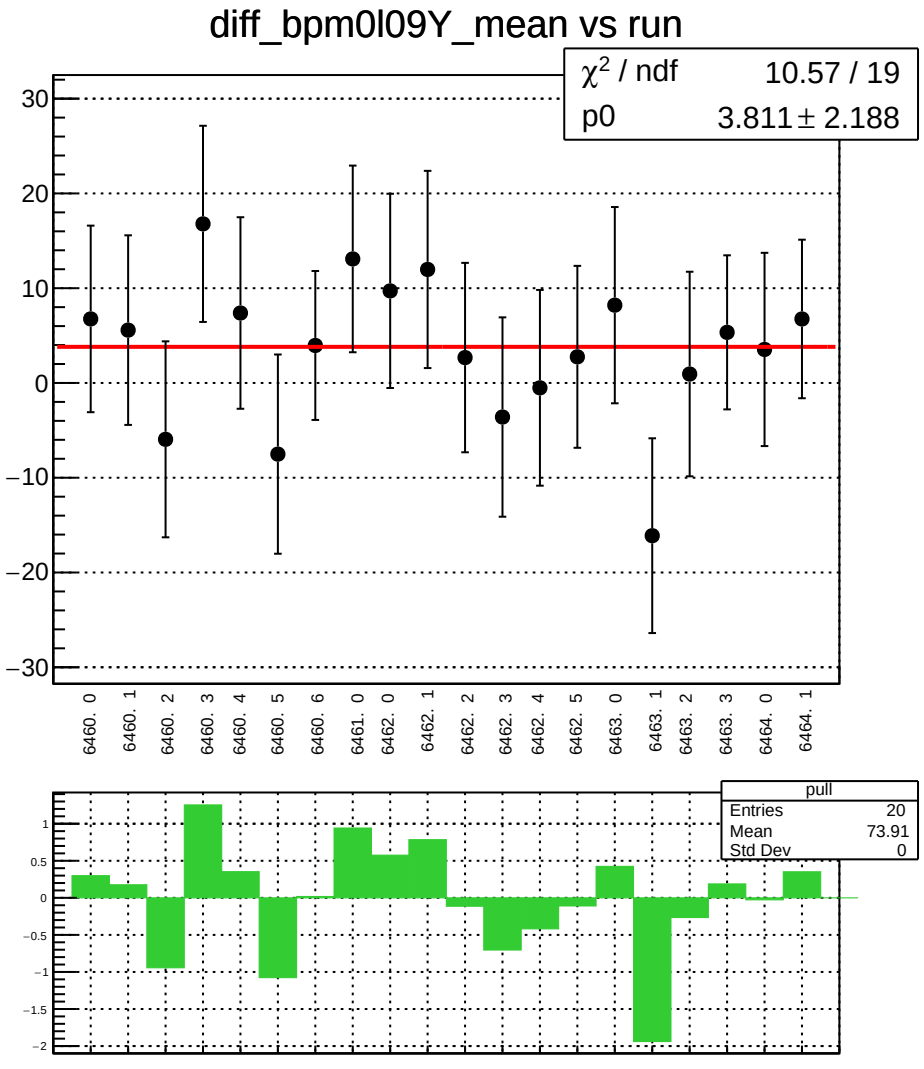

pull1D
Entries 20
Mean −0.0003099
Std Dev 0.9466
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

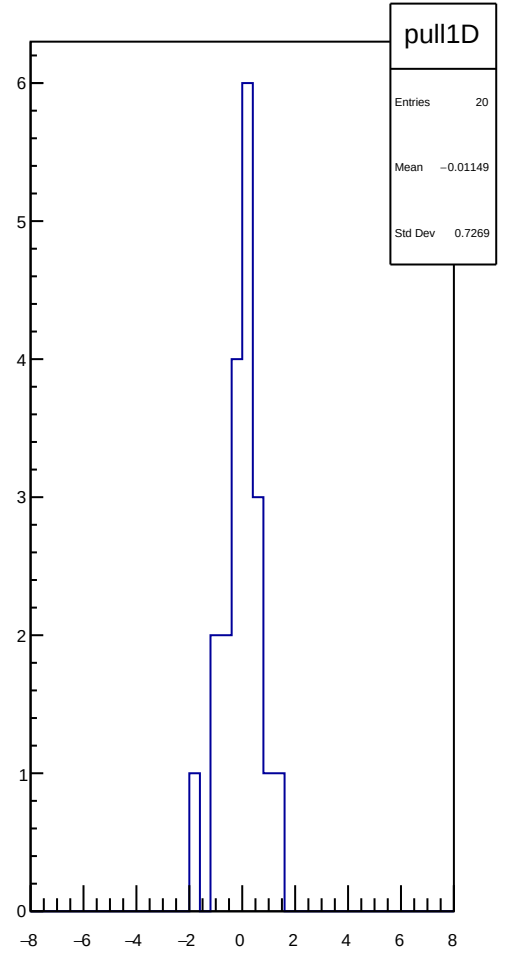

diff_bpm0l08Y_rms vs run
χ² / ndf 184 / 19
p0 1128 ± 1.772
1180
1160
1140
1120
1100
1080
1060
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

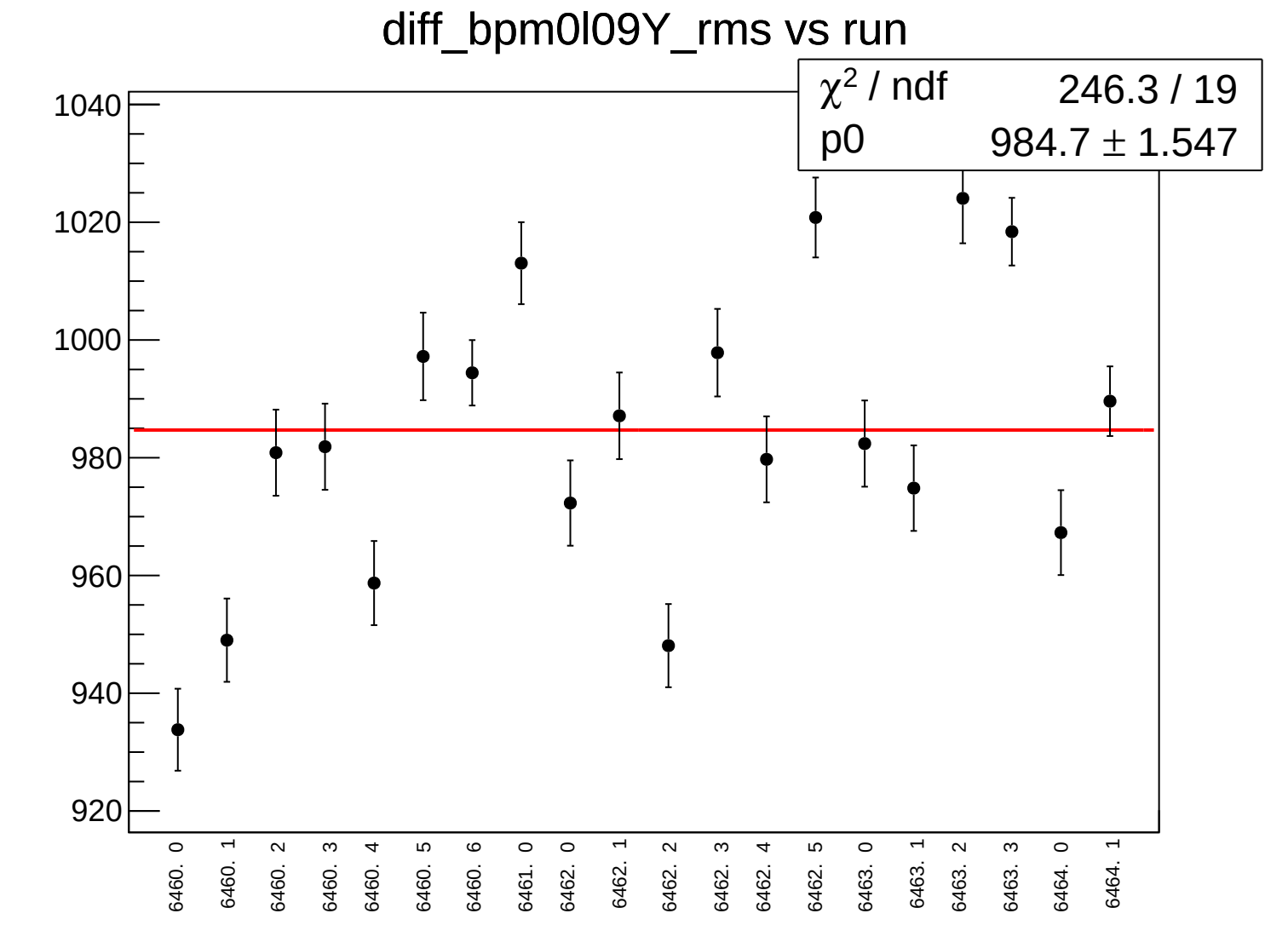

diff_bpm0l09X_mean vs run
χ² / ndf 16.53 / 19
p0 2.508 ± 20.56
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 50.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

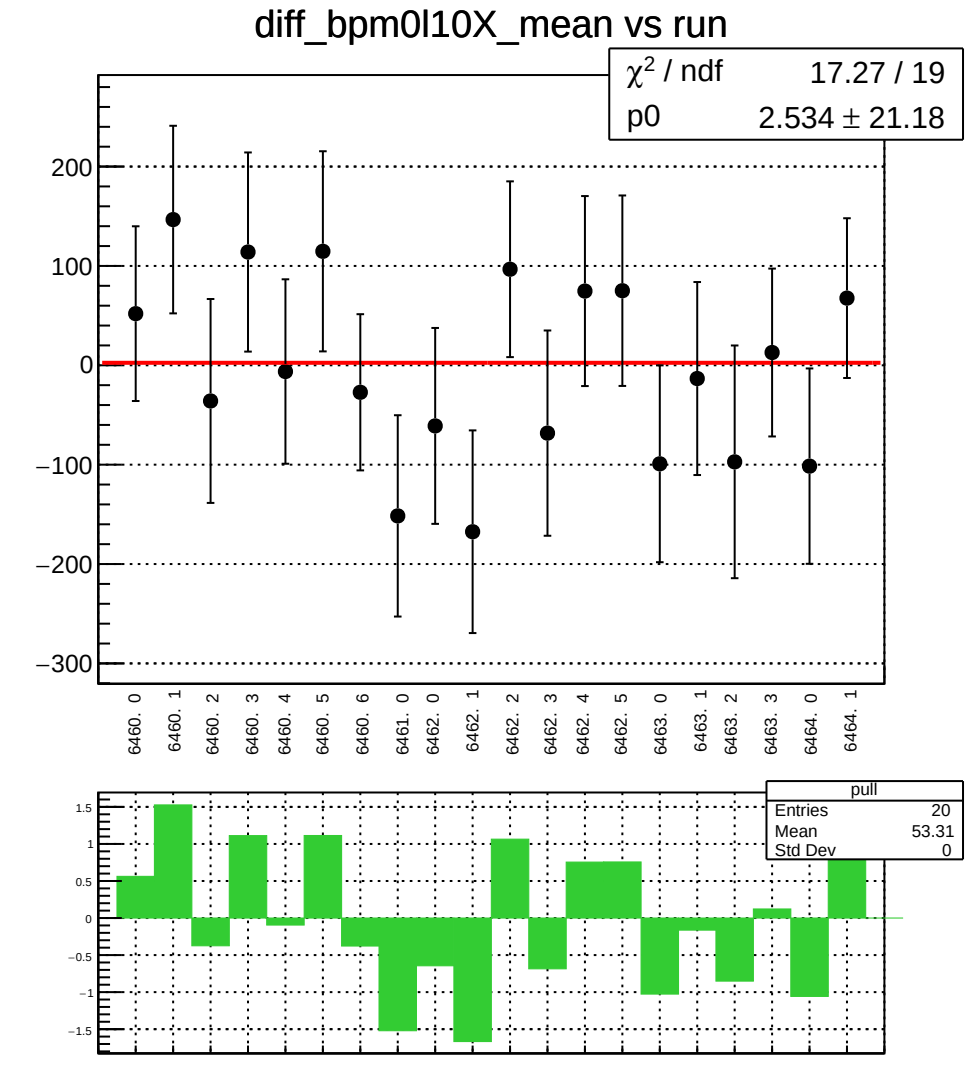

pull1D
Entries 20
Mean −0.0333
Std Dev 0.9085
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

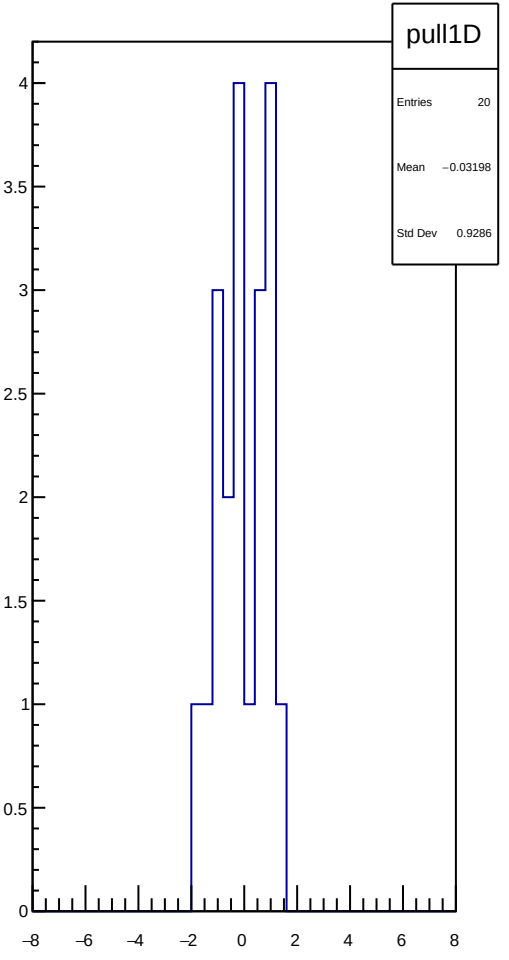

diff_bpm0l09X_rms vs run
χ² / ndf 2076 / 19
p0 9232 ± 14.54
11000
10500
10000
9500
9000
8500
8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

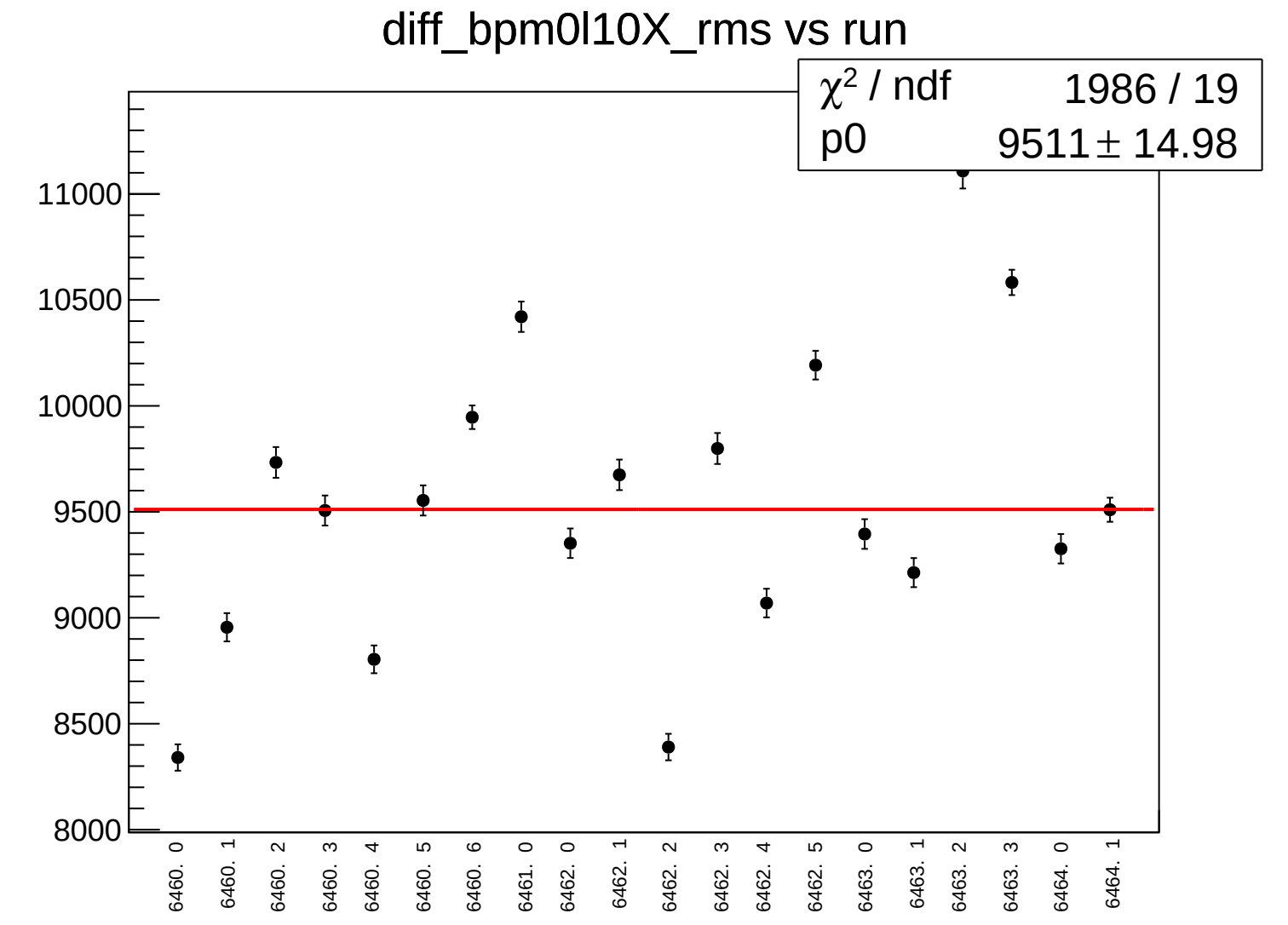

diff_bpm0l09Y_mean vs run
χ² / ndf 10.57 / 19
p0 3.811 ± 2.188
30
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.91
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

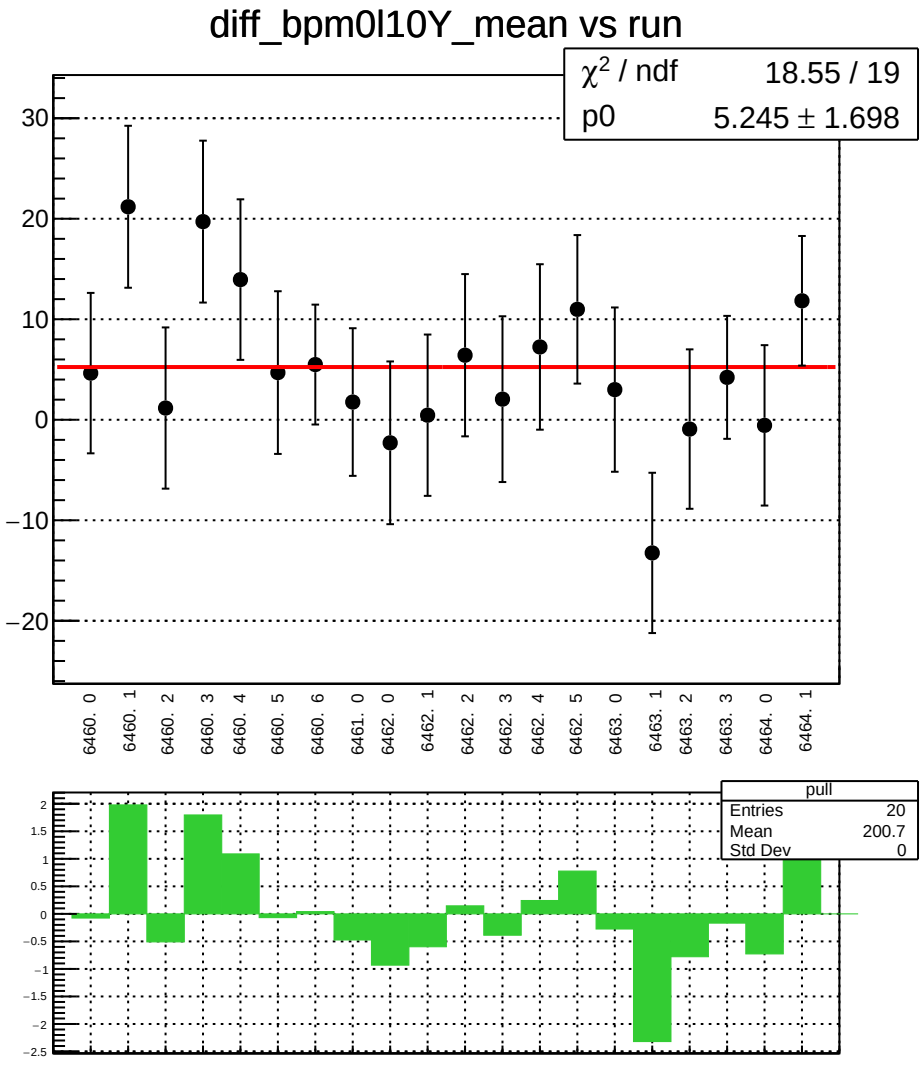

pull1D
Entries 20
Mean −0.01149
Std Dev 0.7269
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

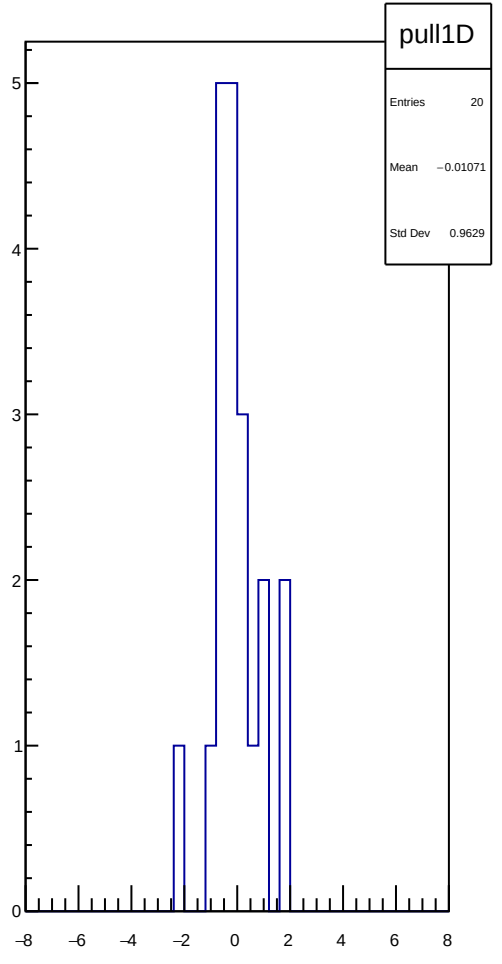

diff_bpm0l09Y_rms vs run
χ² / ndf 246.3 / 19
p0 984.7 ± 1.547
1040
1020
1000
980
960
940
920
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

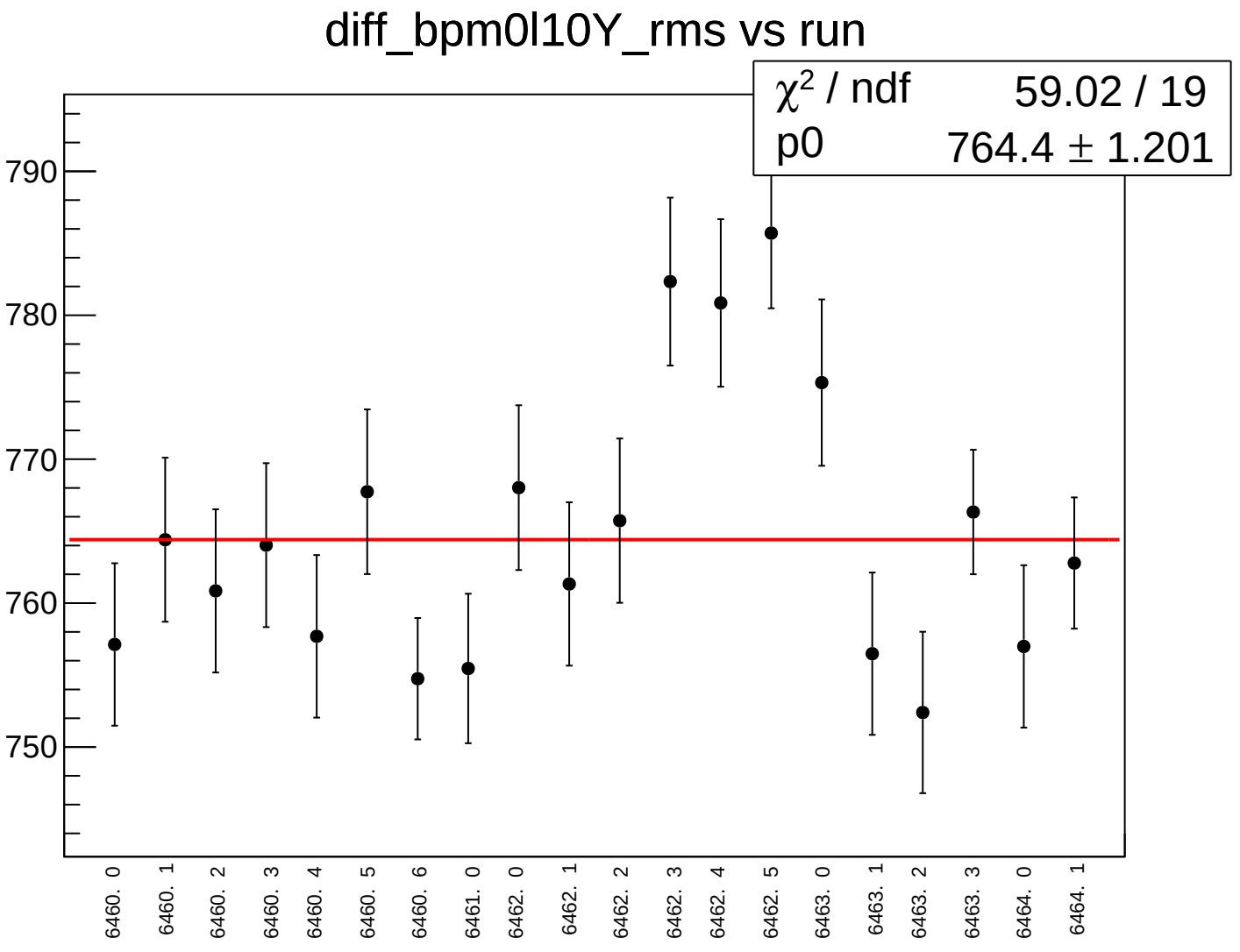

diff_bpm0l10X_mean vs run
χ² / ndf 17.27 / 19
p0 2.534 ± 21.18
200
100
0
−100
−200
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 53.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

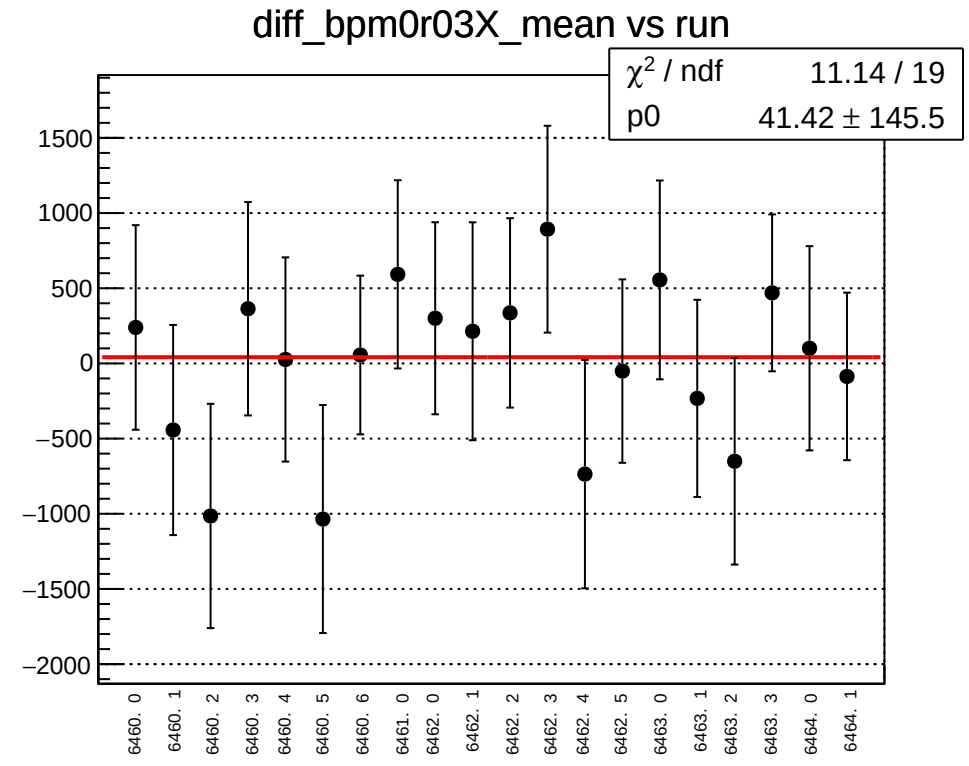

pull1D
Entries 20
Mean −0.03198
Std Dev 0.9286
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

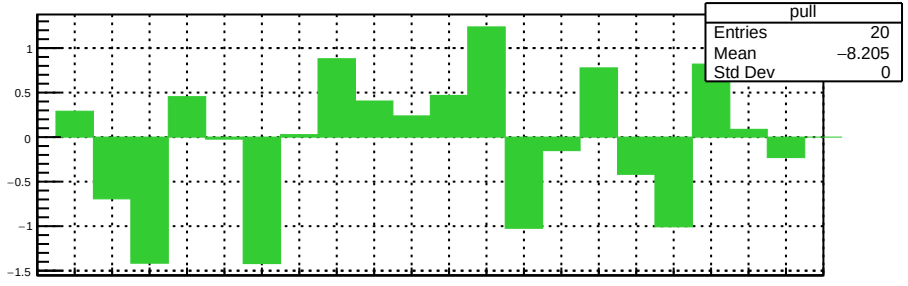

diff_bpm0l10X_rms vs run
χ² / ndf 1986 / 19
p0 9511 ± 14.98
11000
10500
10000
9500
9000
8500
8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

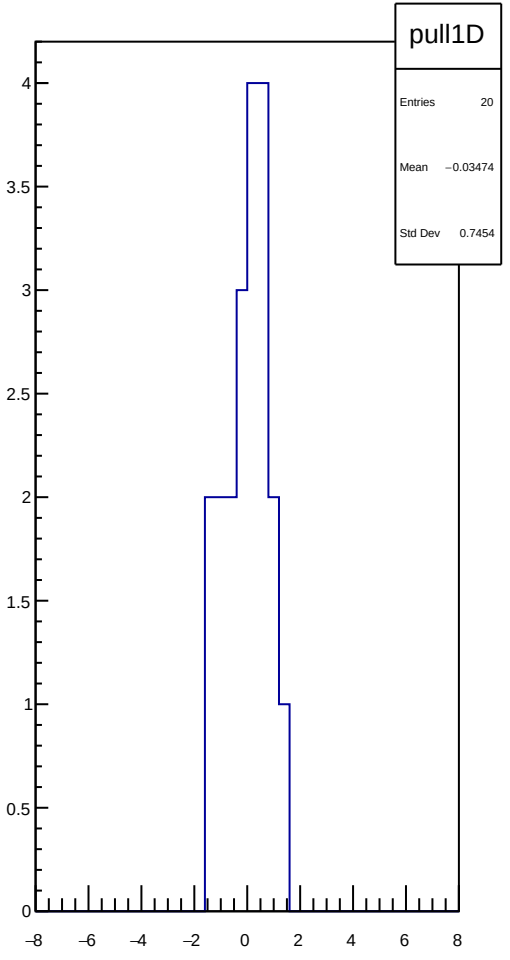

diff_bpm0l10Y_mean vs run
χ² / ndf 18.55 / 19
p0 5.245 ± 1.698
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 200.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

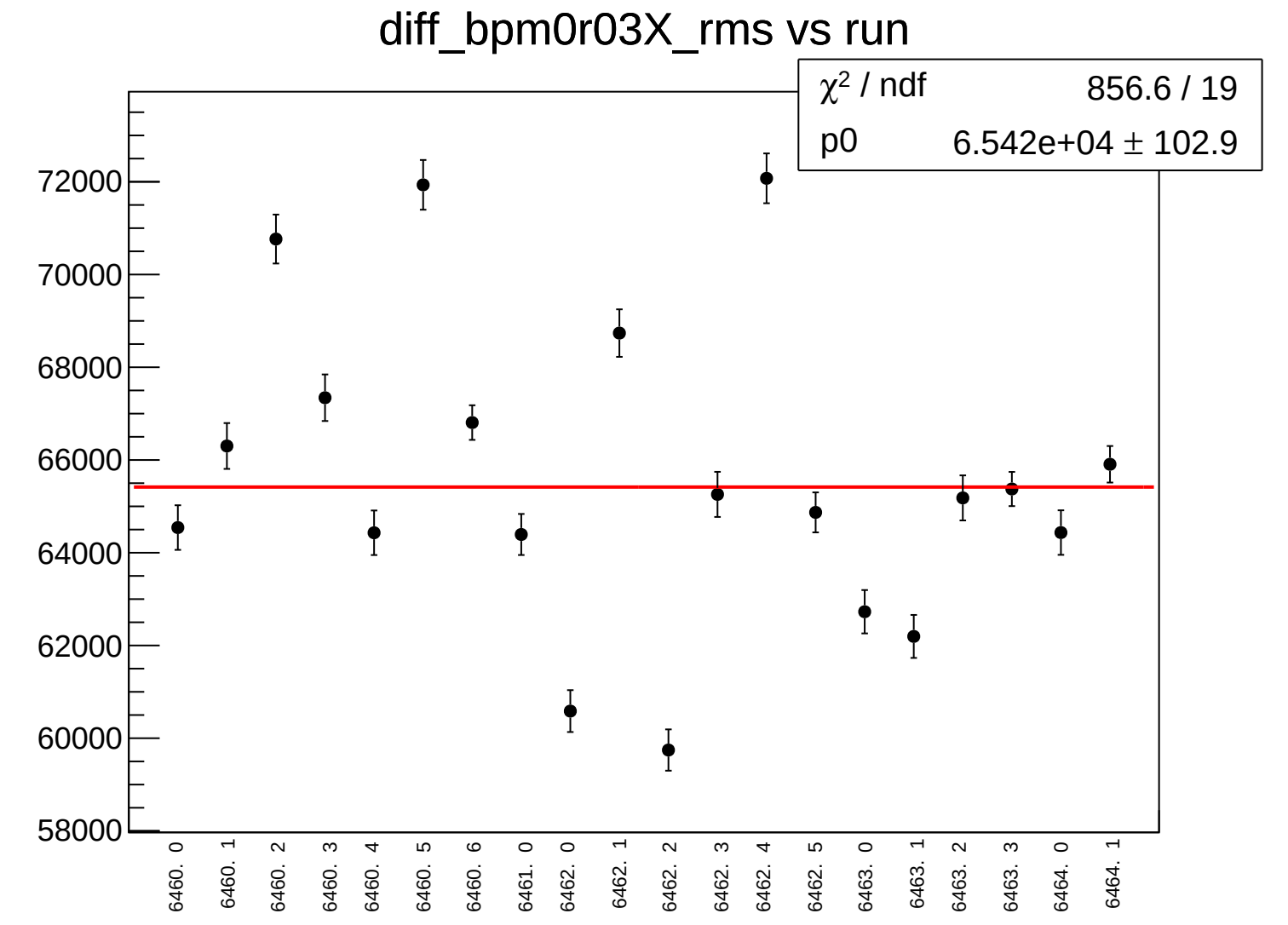

pull1D
Entries 20
Mean −0.01071
Std Dev 0.9629
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

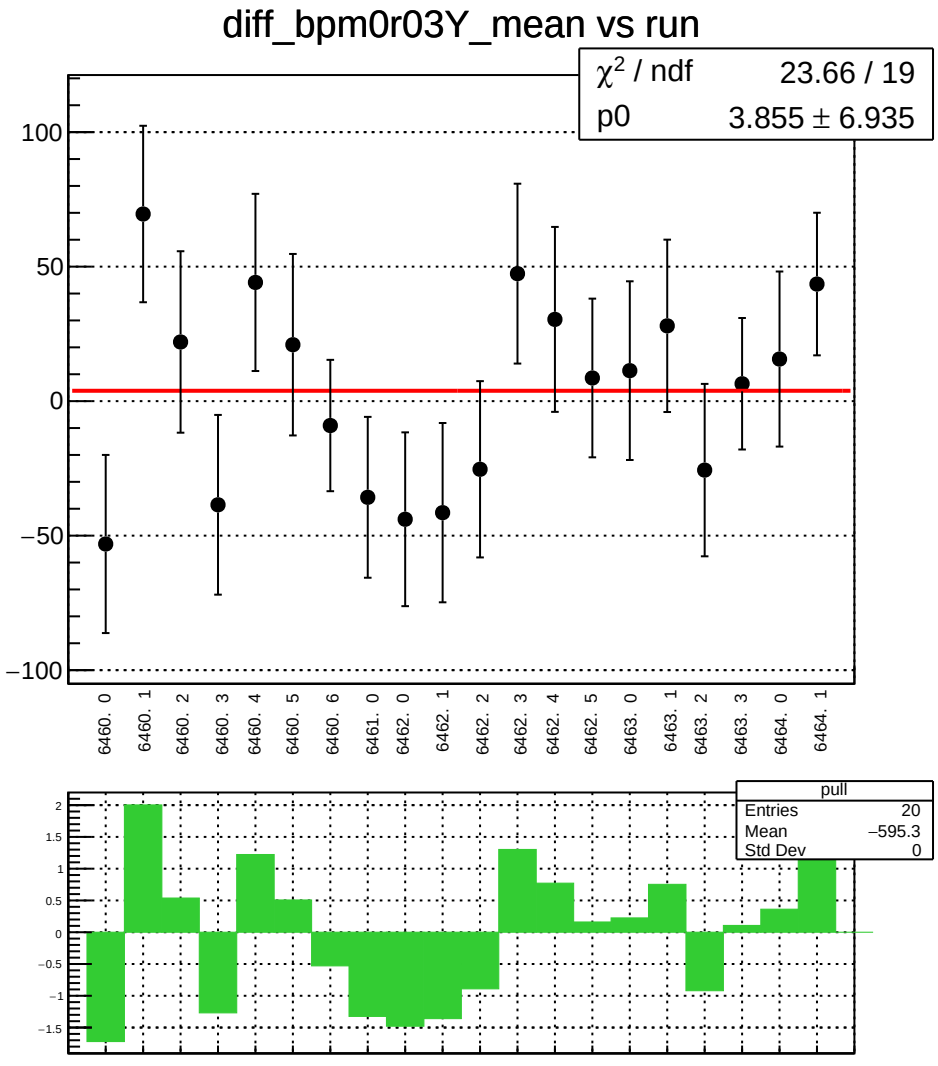

diff_bpm0l10Y_rms vs run
χ² / ndf 59.02 / 19
p0 764.4 ± 1.201
790
780
770
760
750
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

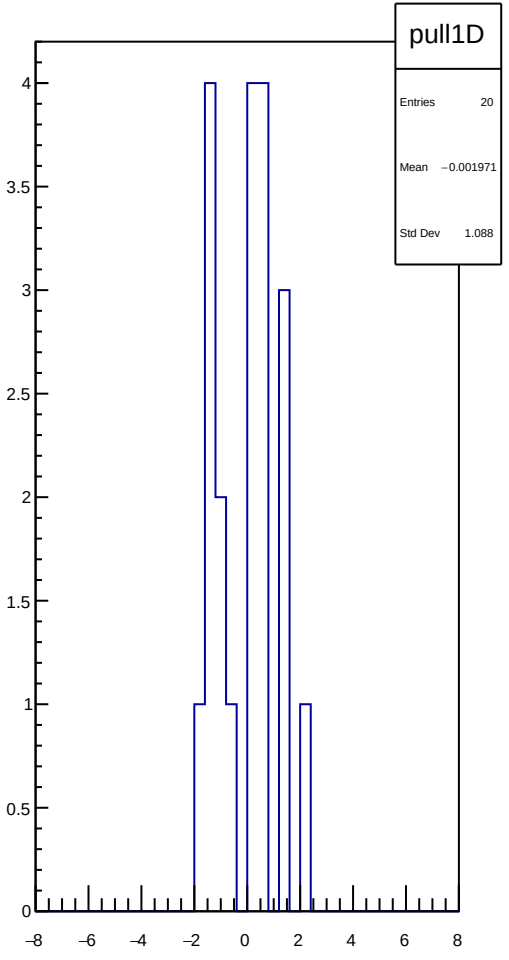

diff_bpm0r03X_mean vs run
χ² / ndf 11.14 / 19
p0 41.42 ± 145.5
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

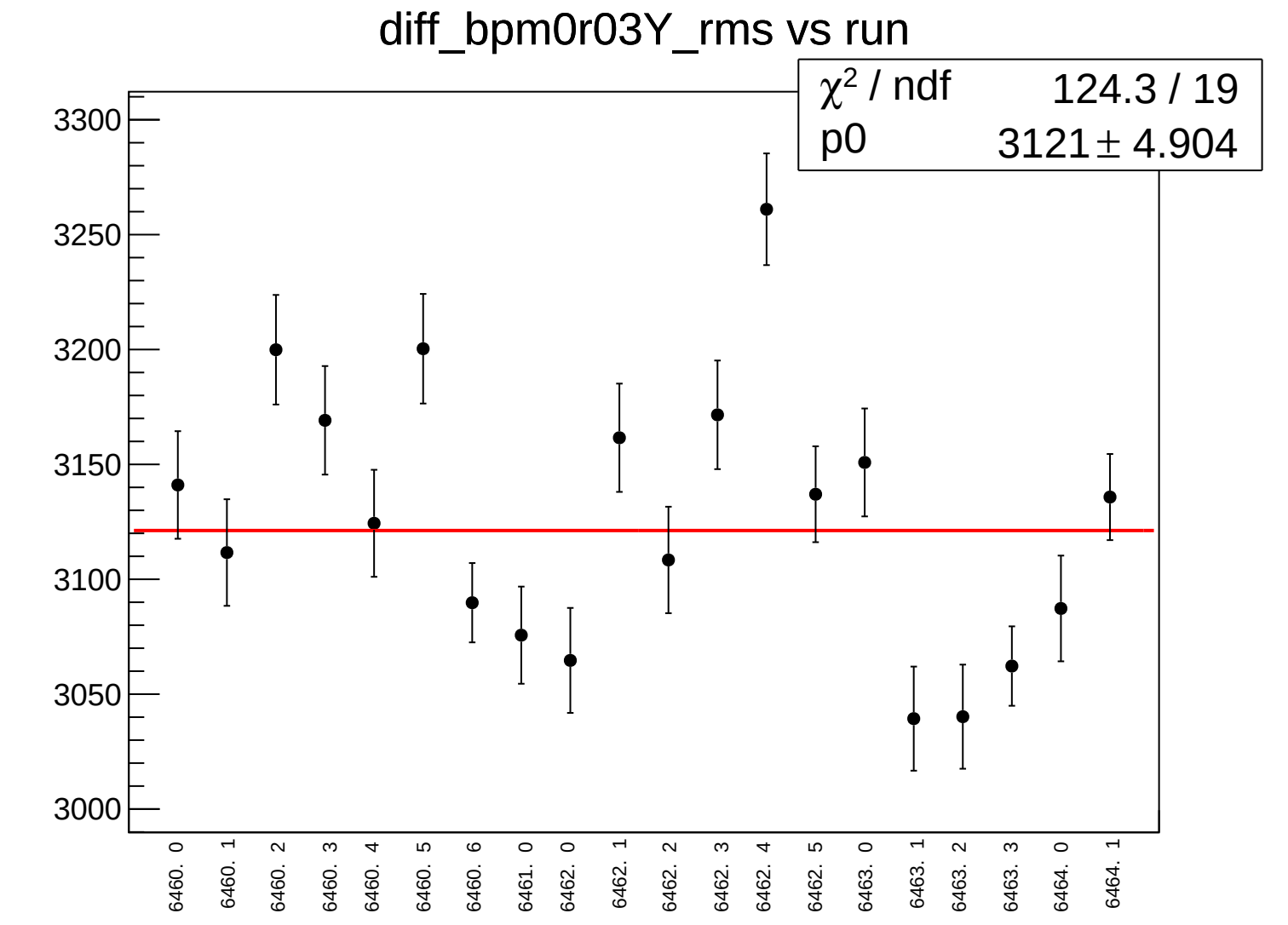

pull
Entries 20
Mean −8.205
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

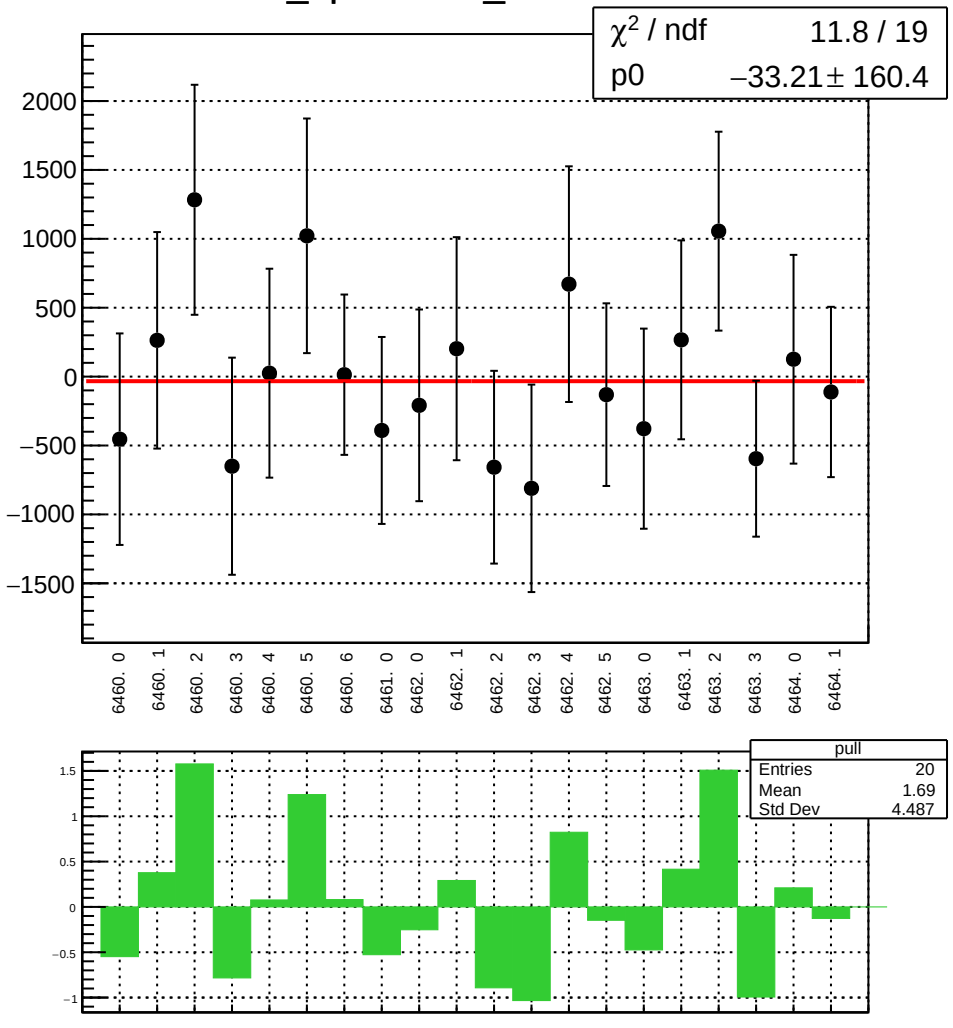

pull1D
Entries 20
Mean −0.03474
Std Dev 0.7454
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

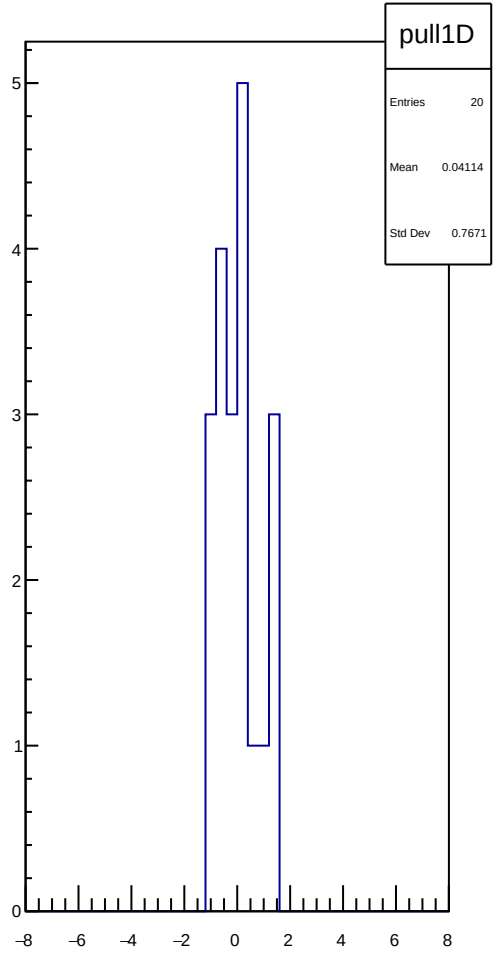

diff_bpm0r03X_rms vs run
χ² / ndf 856.6 / 19
p0 6.542e+04 ± 102.9
72000
70000
68000
66000
64000
62000
60000
58000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

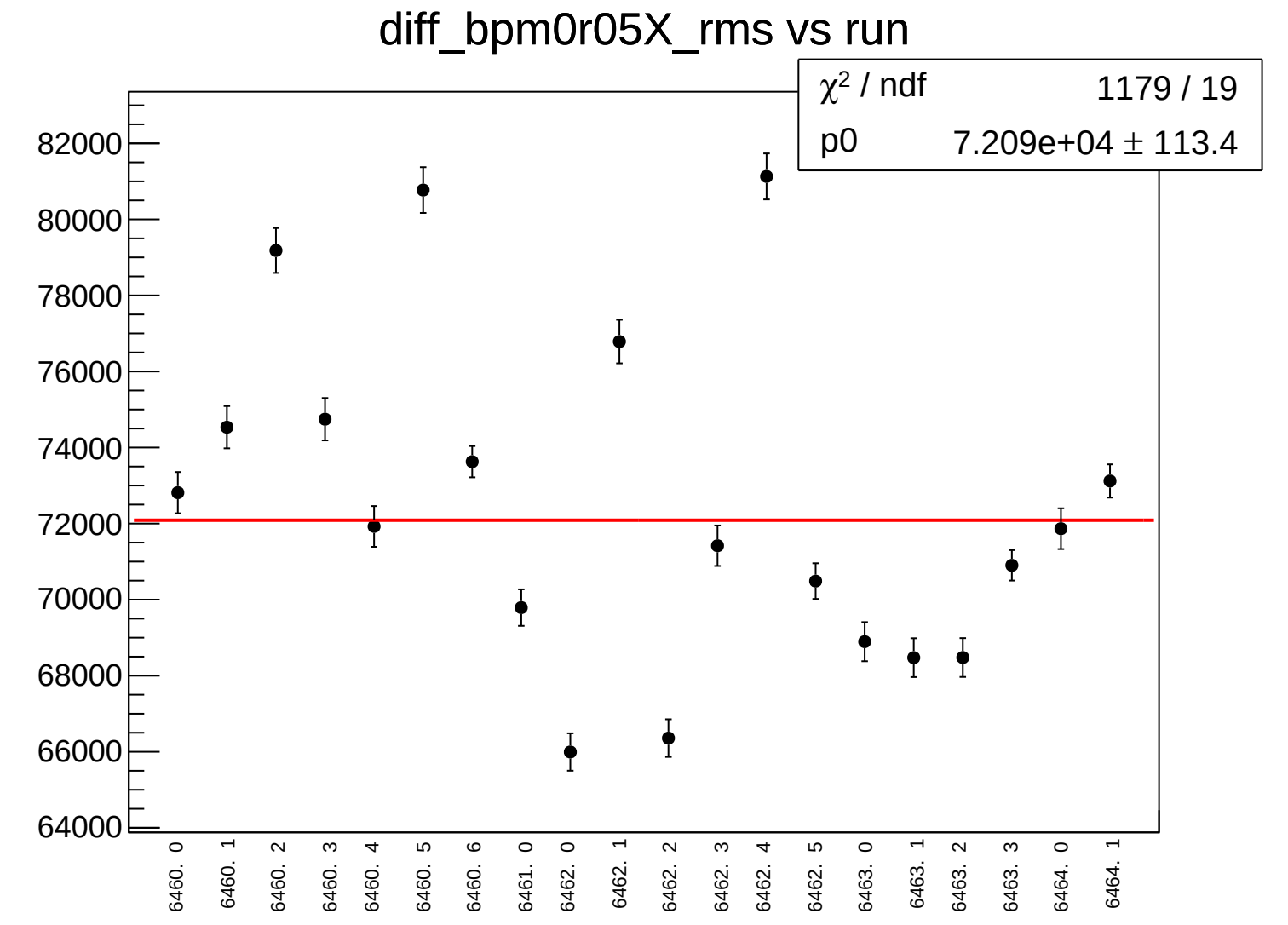

diff_bpm0r03Y_mean vs run
χ² / ndf 23.66 / 19
p0 3.855 ± 6.935
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −595.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

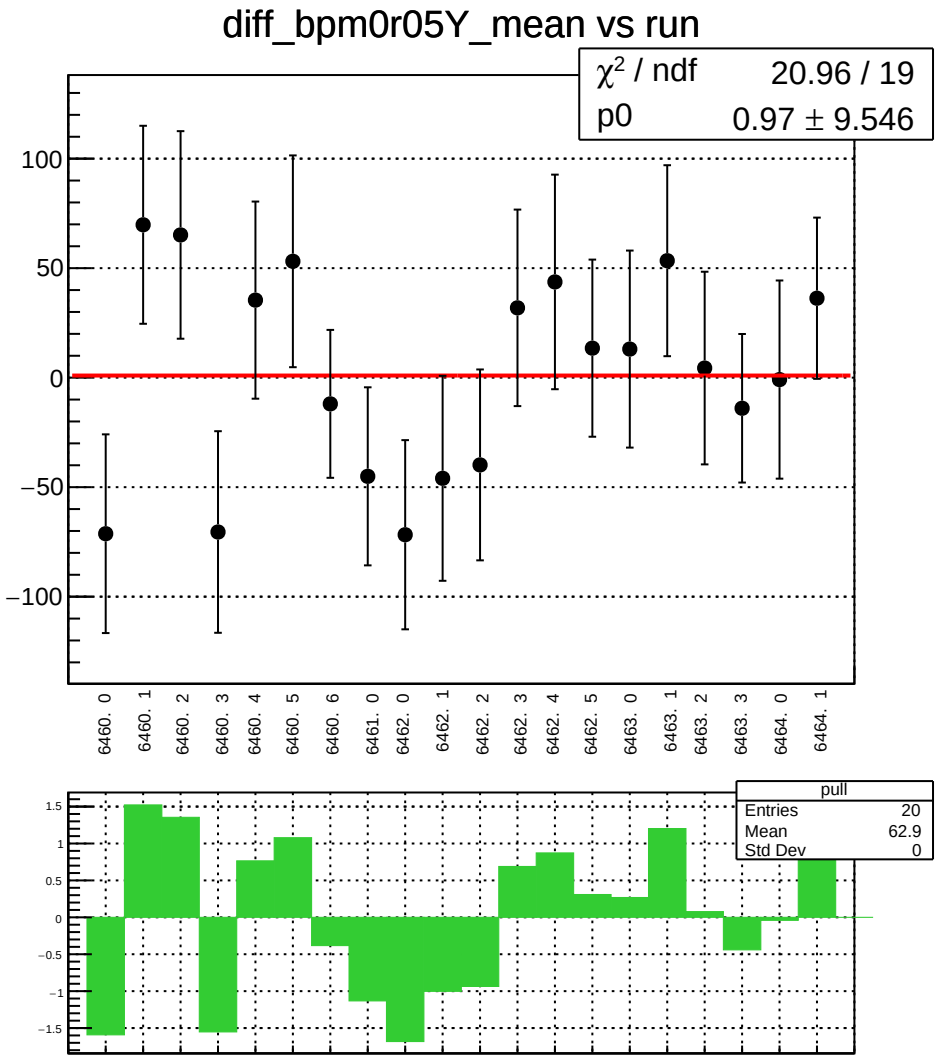

pull1D
Entries 20
Mean −0.001971
Std Dev 1.088
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

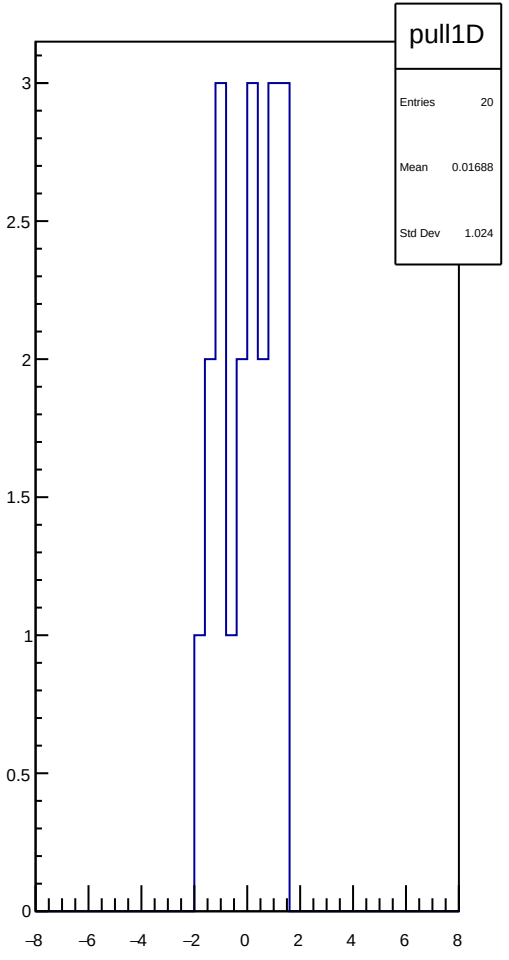

diff_bpm0r03Y_rms vs run
χ² / ndf 124.3 / 19
p0 3121 ± 4.904
3300
3250
3200
3150
3100
3050
3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

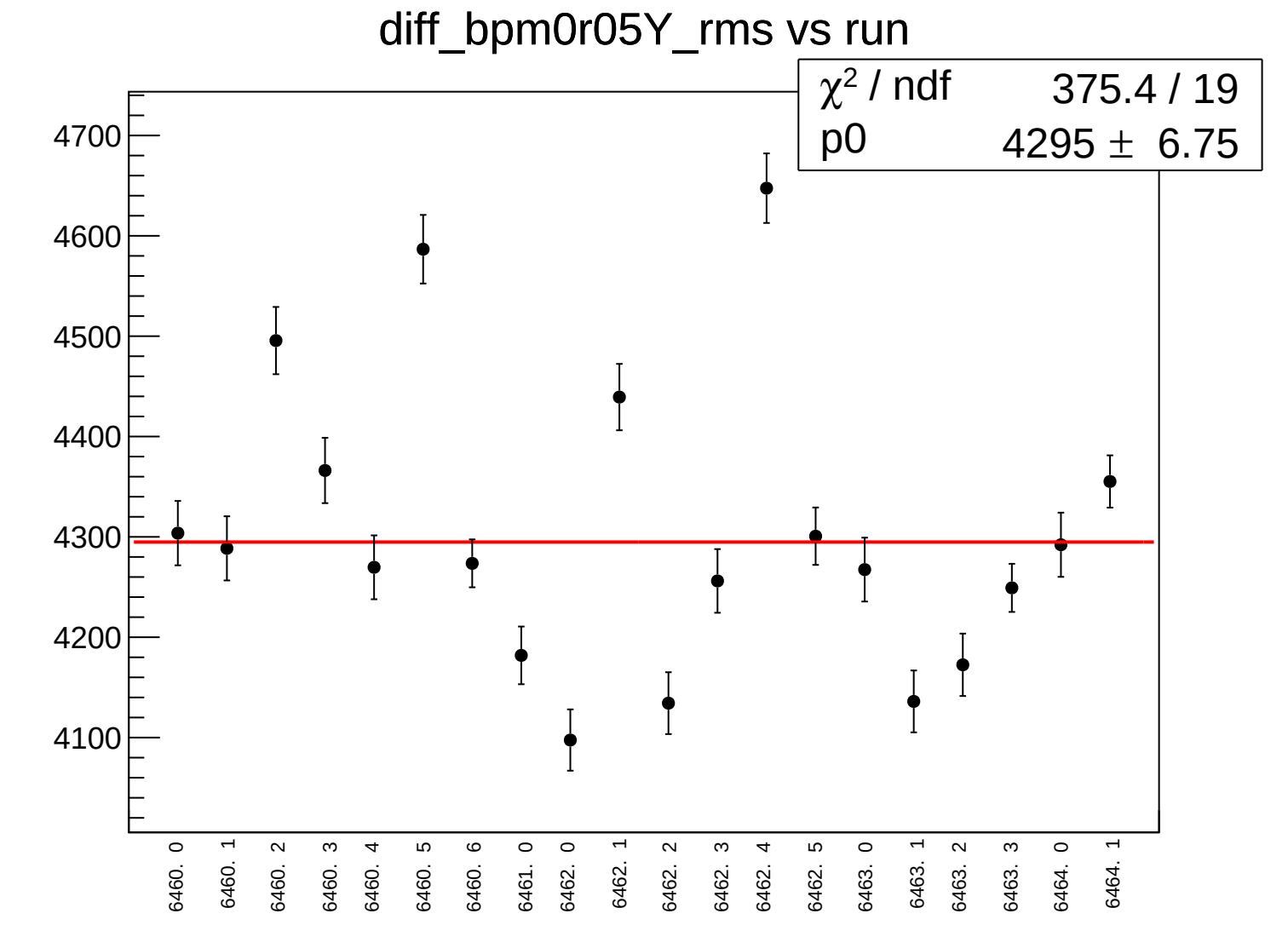

diff_bpm0r05X_mean vs run
χ² / ndf 11.8 / 19
p0 −33.21± 160.4
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.69
Std Dev 4.487
1.5
1
0.5
0
−0.5
−1

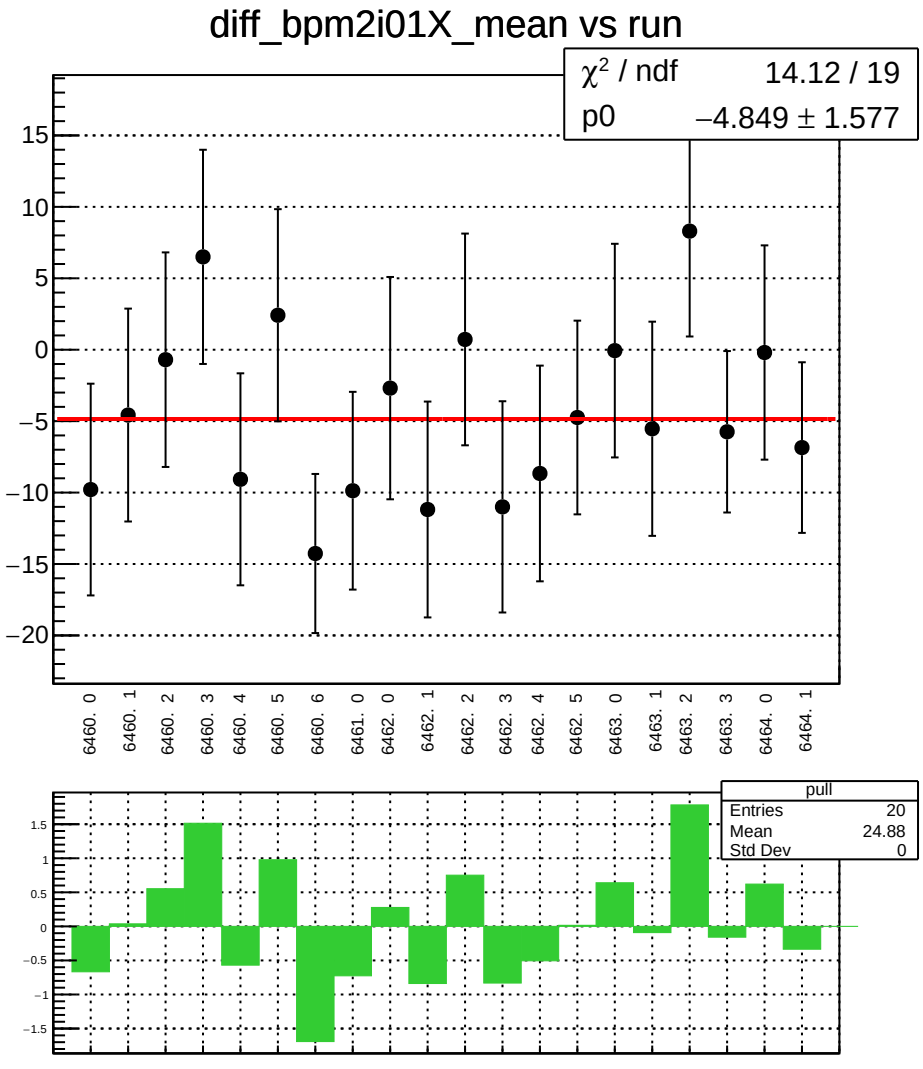

pull1D
Entries 20
Mean 0.04114
Std Dev 0.7671
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

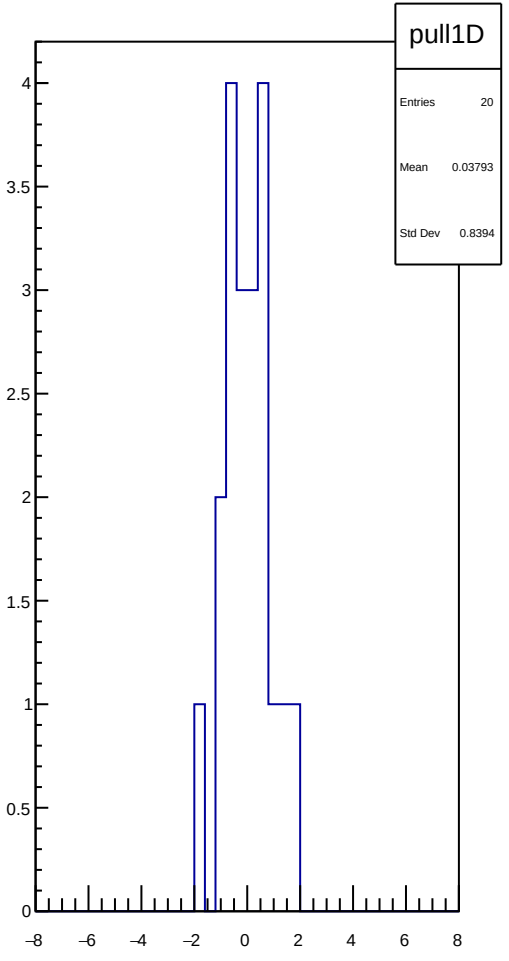

diff_bpm0r05X_rms vs run
χ² / ndf 1179 / 19
p0 7.209e+04 ± 113.4
82000
80000
78000
76000
74000
72000
70000
68000
66000
64000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

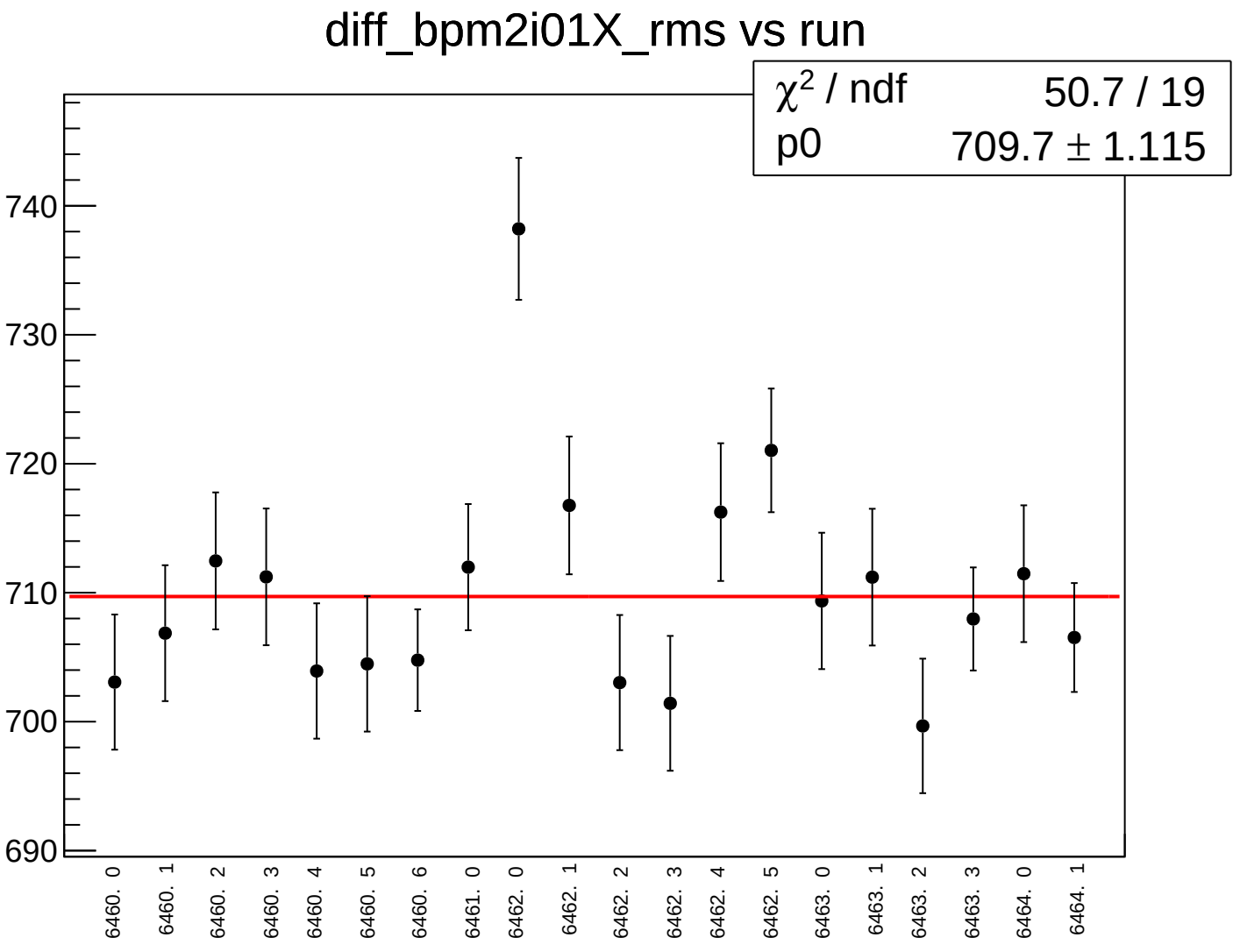

diff_bpm0r05Y_mean vs run
χ² / ndf 20.96 / 19
p0 0.97 ± 9.546
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

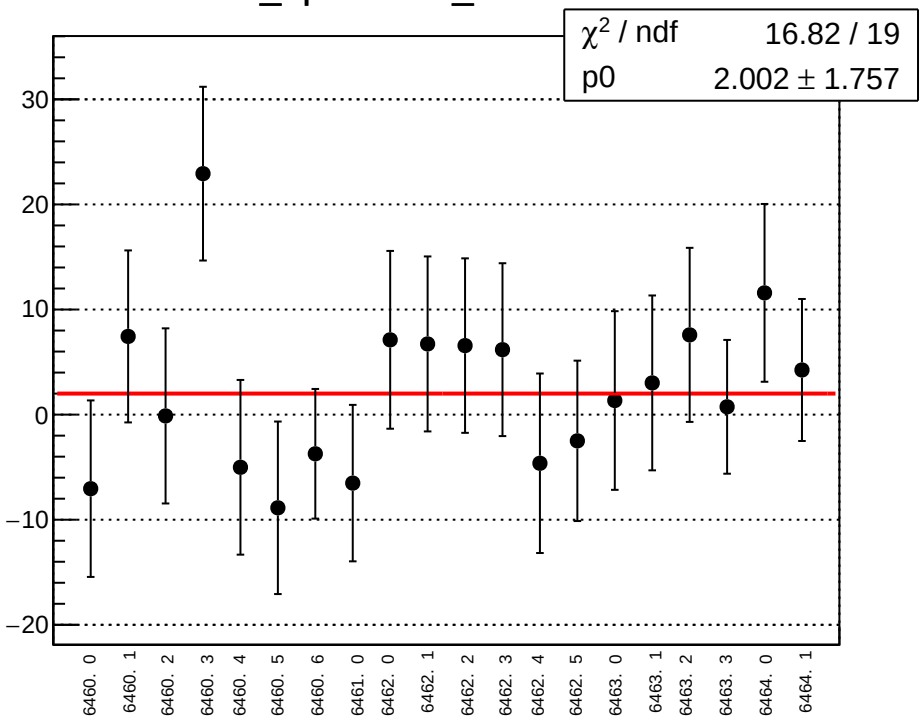

pull1D
Entries 20
Mean 0.01688
Std Dev 1.024
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

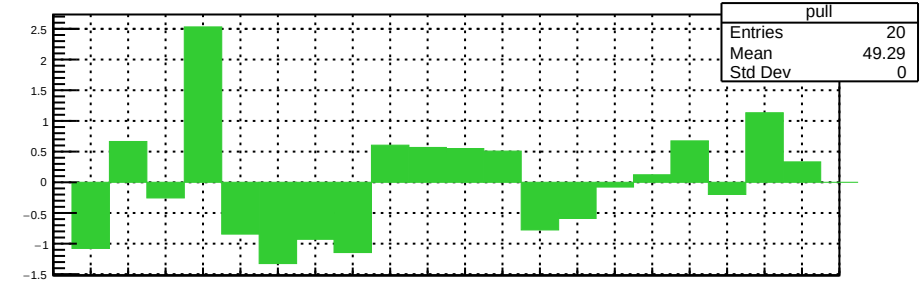

diff_bpm0r05Y_rms vs run
χ² / ndf 375.4 / 19
p0 4295 ± 6.75
4700
4600
4500
4400
4300
4200
4100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

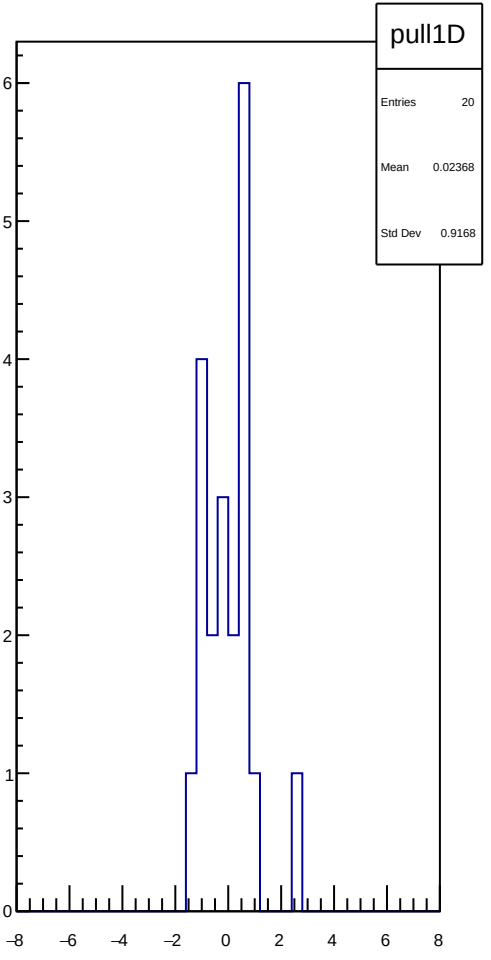

diff_bpm2i01X_mean vs run
χ² / ndf 14.12 / 19
p0 −4.849 ± 1.577
15
10
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 24.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

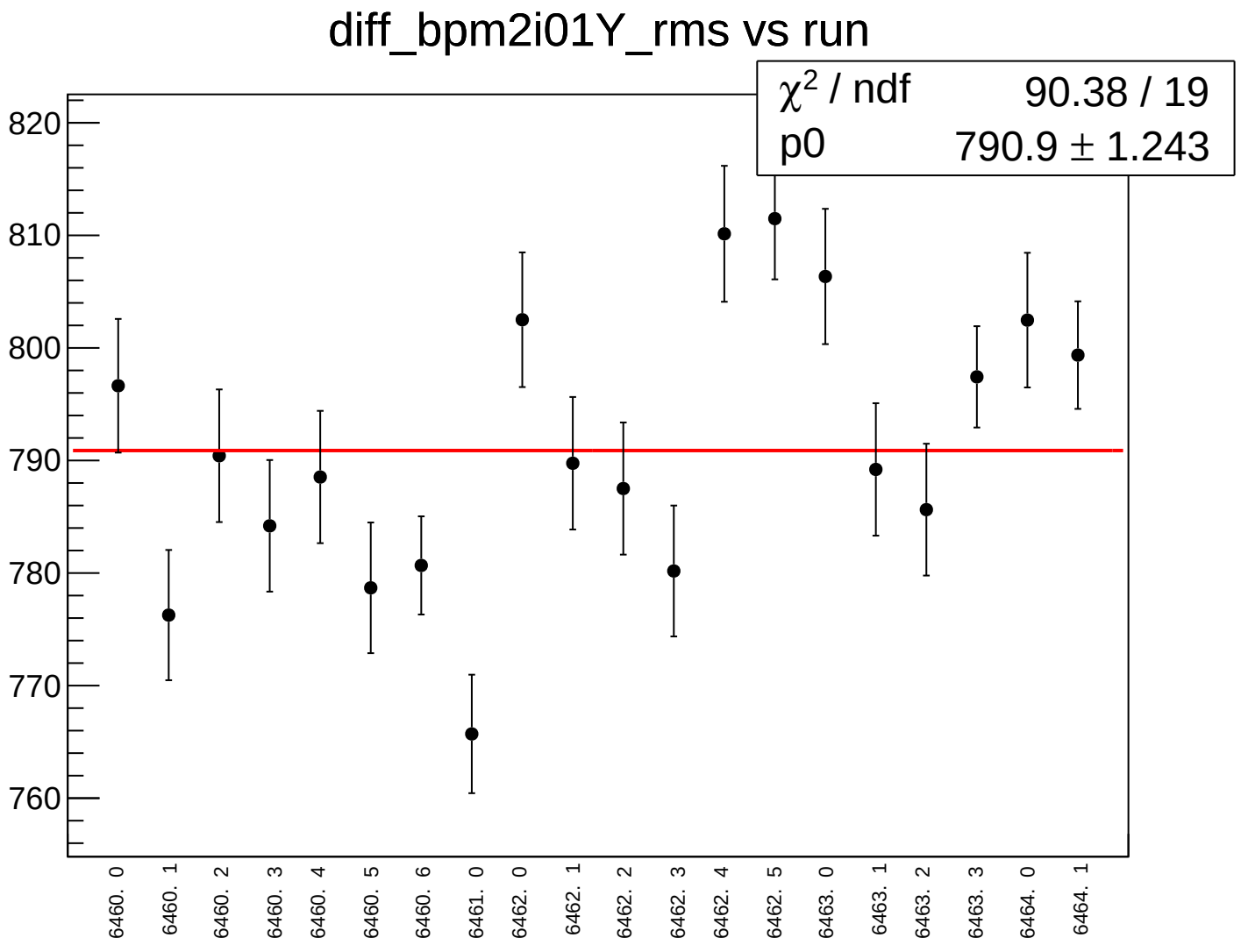

pull1D
Entries 20
Mean 0.03793
Std Dev 0.8394
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

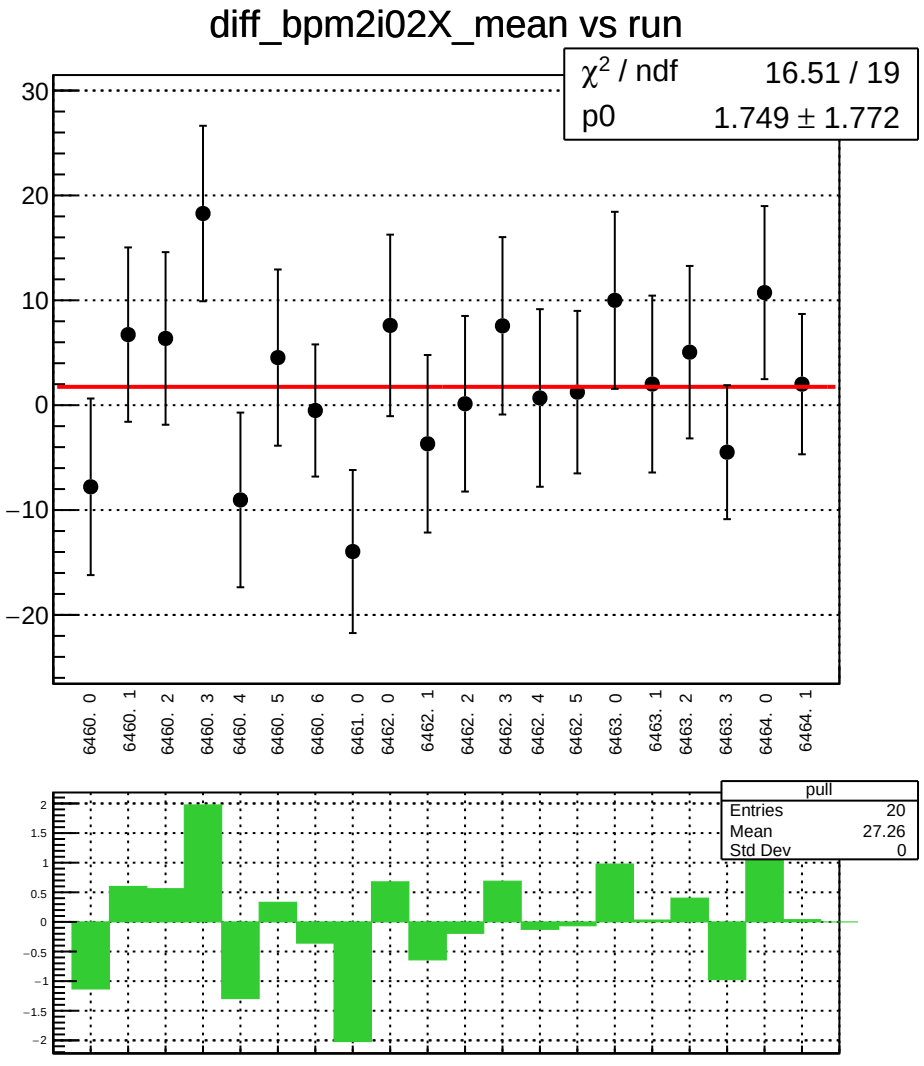

diff_bpm2i01X_rms vs run
χ² / ndf 50.7 / 19
p0 709.7 ± 1.115
740
730
720
710
700
690
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

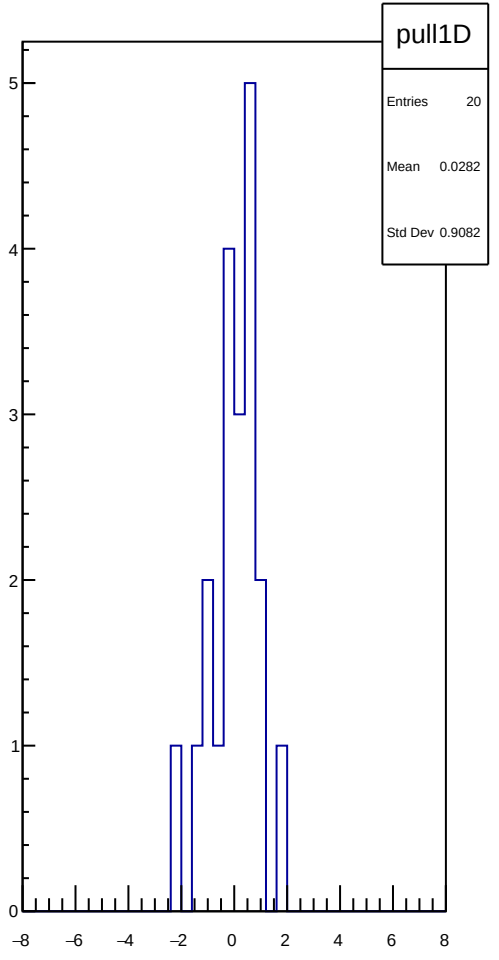

diff_bpm2i01Y_mean vs run
χ² / ndf 16.82 / 19
p0 2.002 ± 1.757
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

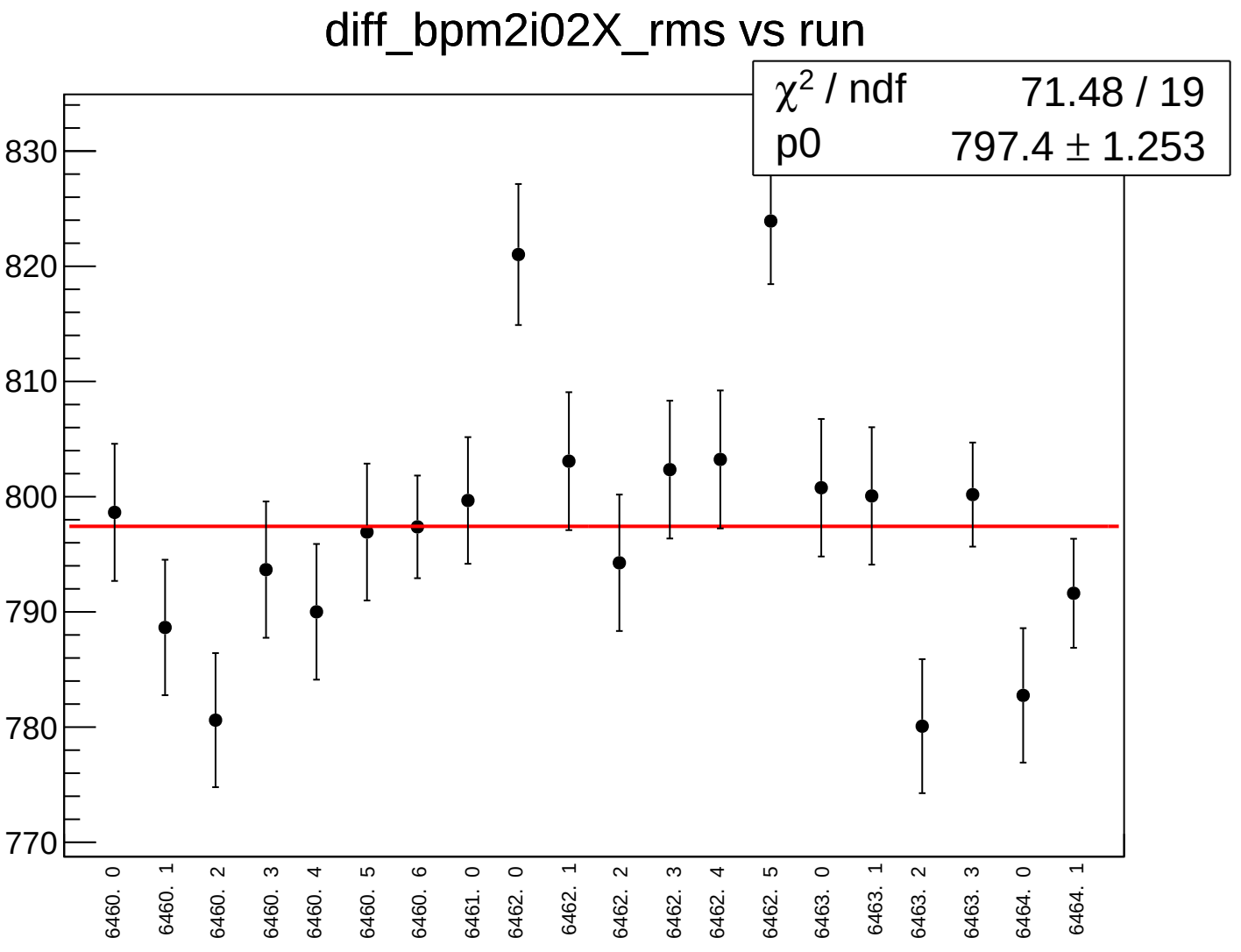

pull
Entries 20
Mean 49.29
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

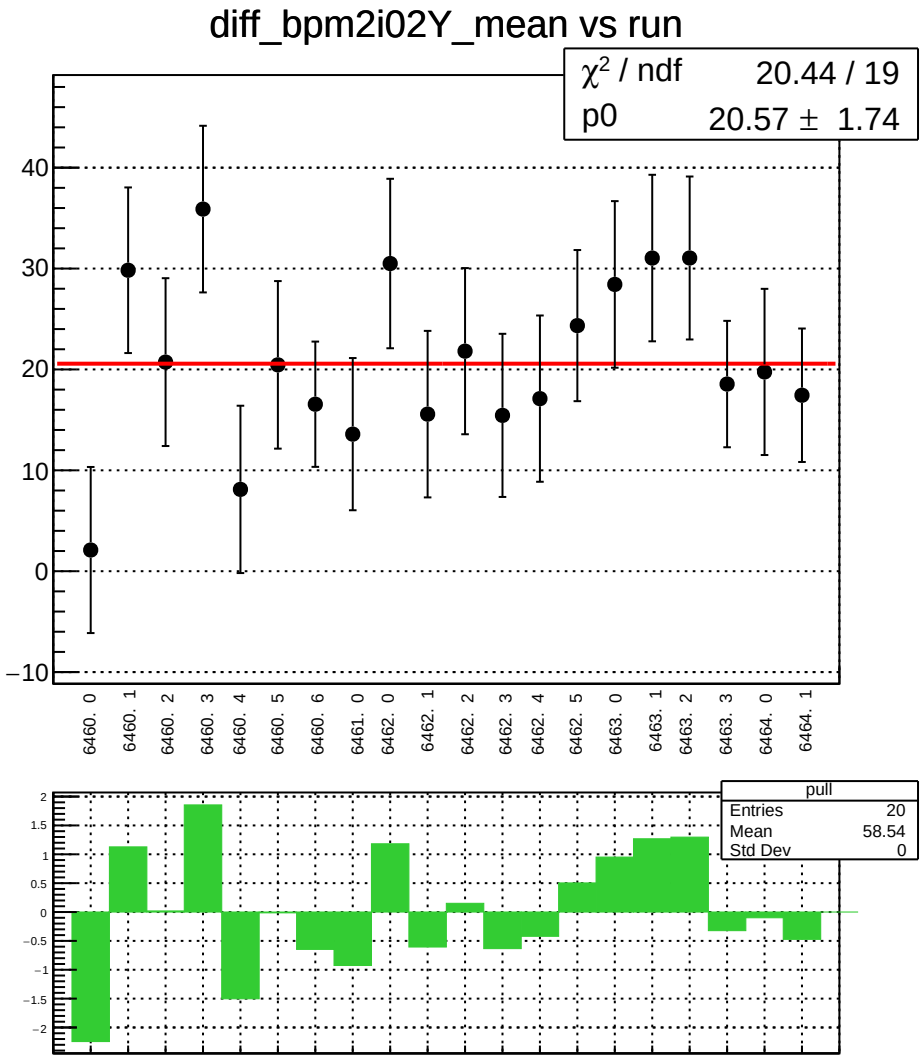

pull1D
Entries 20
Mean 0.02368
Std Dev 0.9168
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

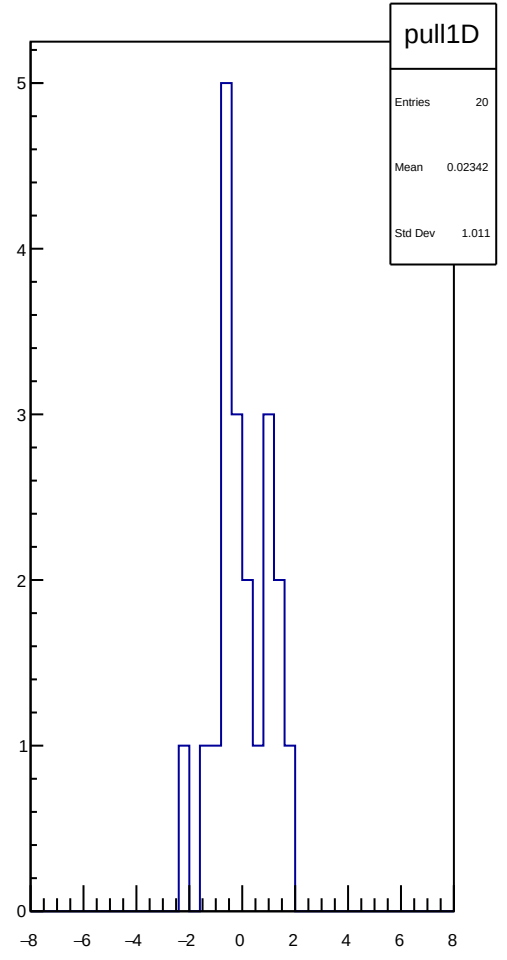

diff_bpm2i01Y_rms vs run
χ² / ndf 90.38 / 19
p0 790.9 ± 1.243
820
810
800
790
780
770
760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

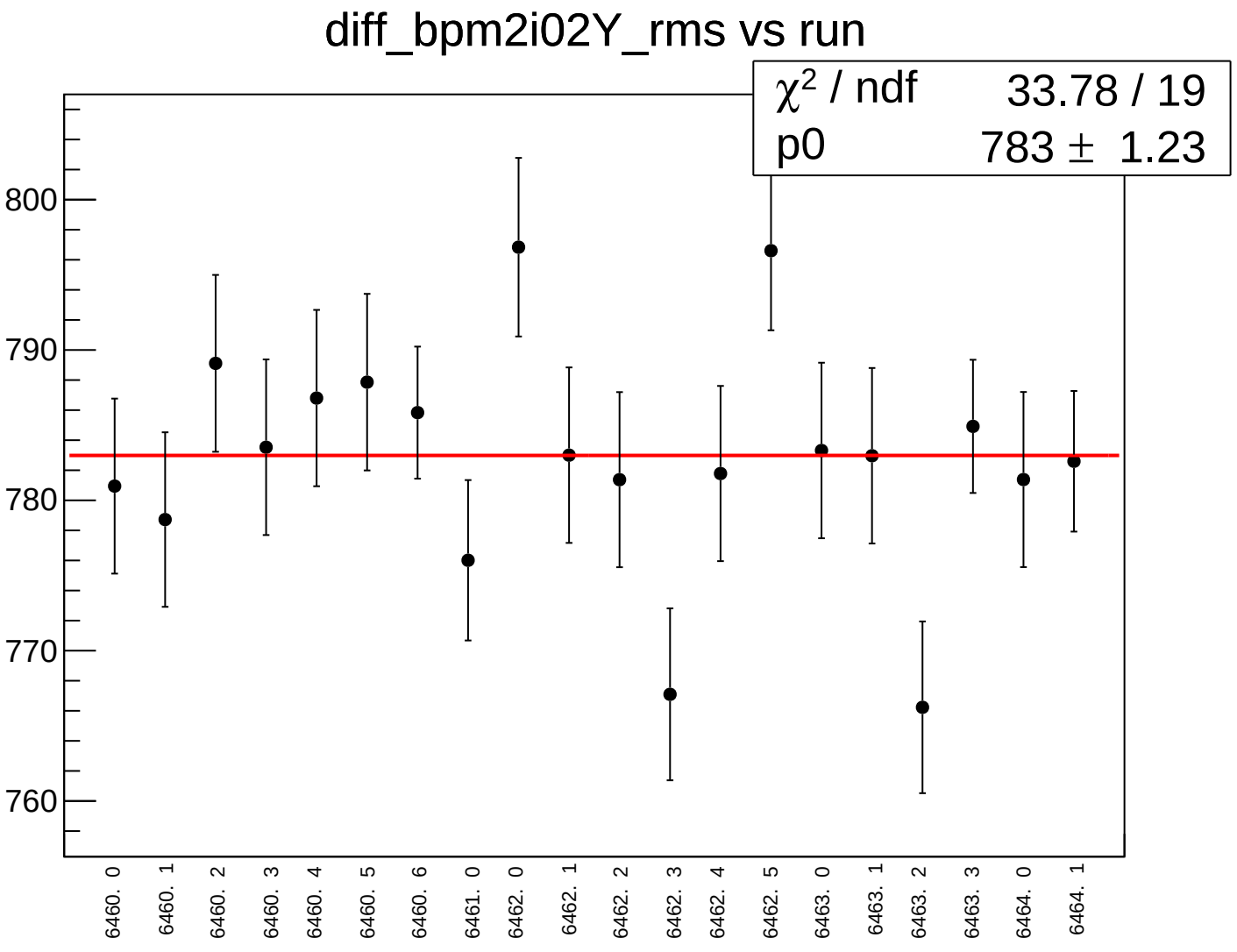

diff_bpm2i02X_mean vs run
χ² / ndf 16.51 / 19
p0 1.749 ± 1.772
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

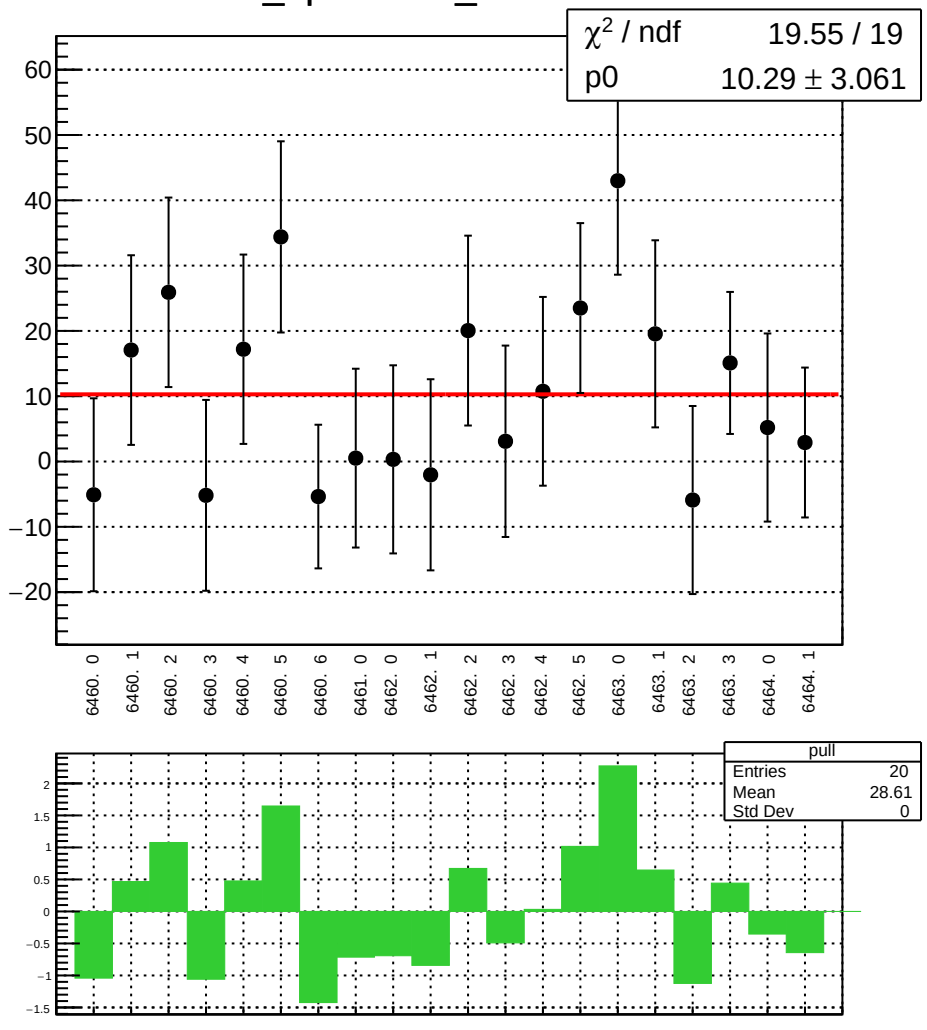

pull1D
Entries 20
Mean 0.0282
Std Dev 0.9082
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

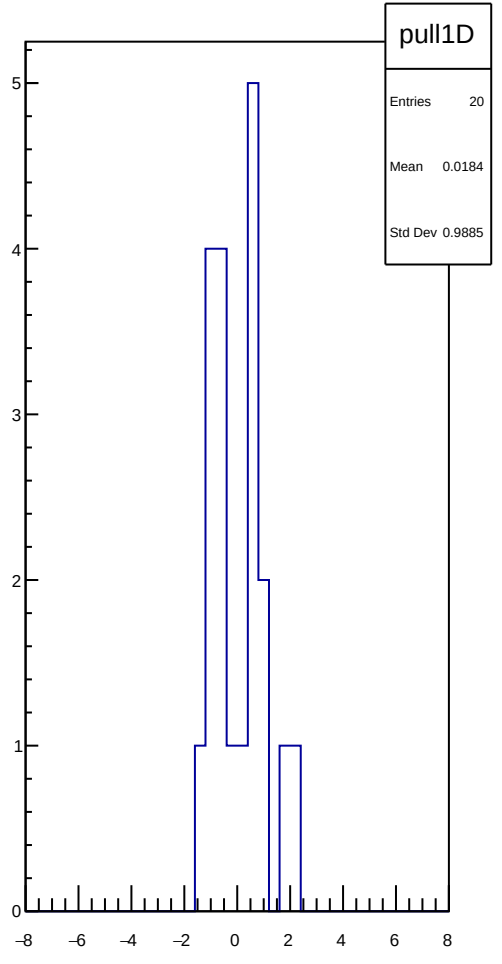

diff_bpm2i02X_rms vs run
χ² / ndf 71.48 / 19
p0 797.4 ± 1.253
830
820
810
800
790
780
770
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

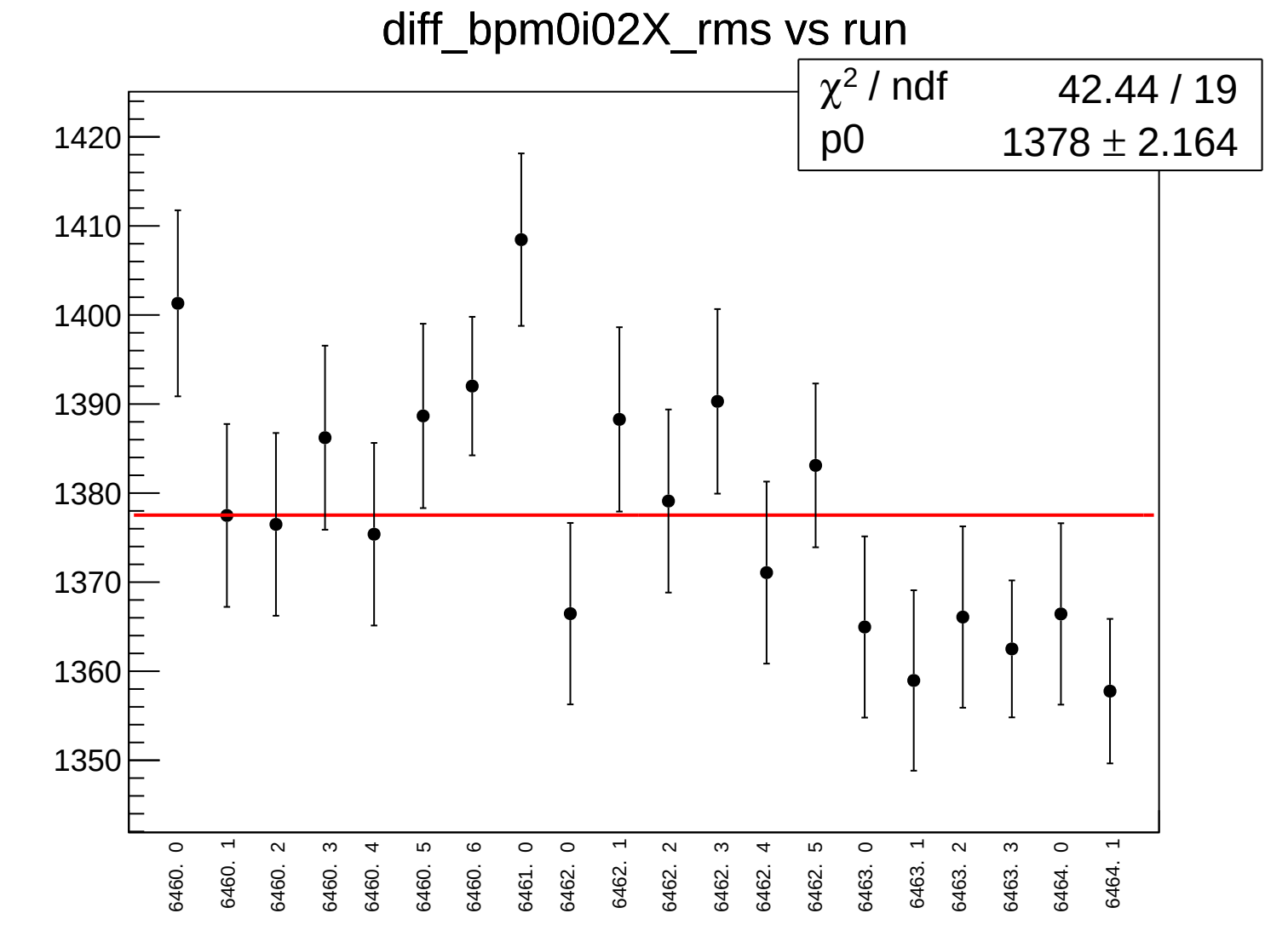

diff_bpm2i02Y_mean vs run
χ² / ndf 20.44 / 19
p0 20.57 ± 1.74
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

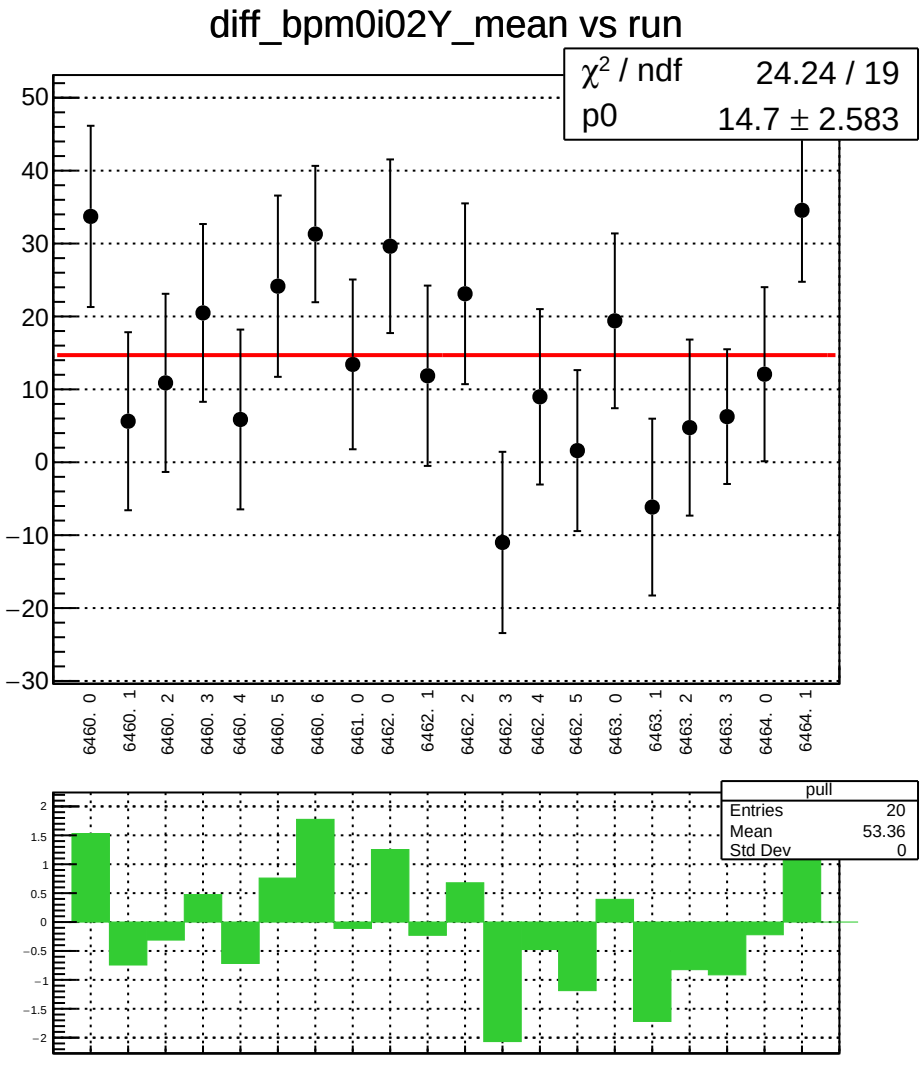

pull1D
Entries 20
Mean 0.02342
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

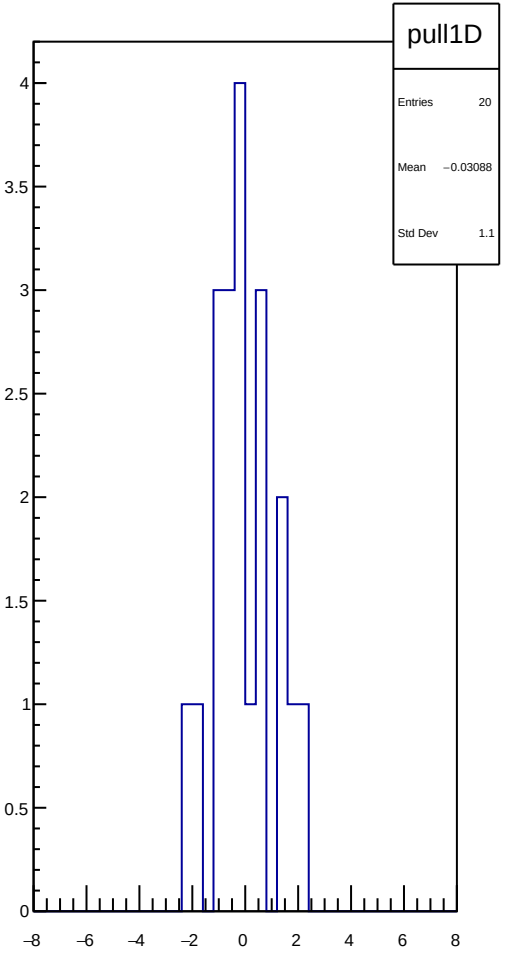

diff_bpm2i02Y_rms vs run
χ² / ndf 33.78 / 19
p0 783 ± 1.23
800
790
780
770
760
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

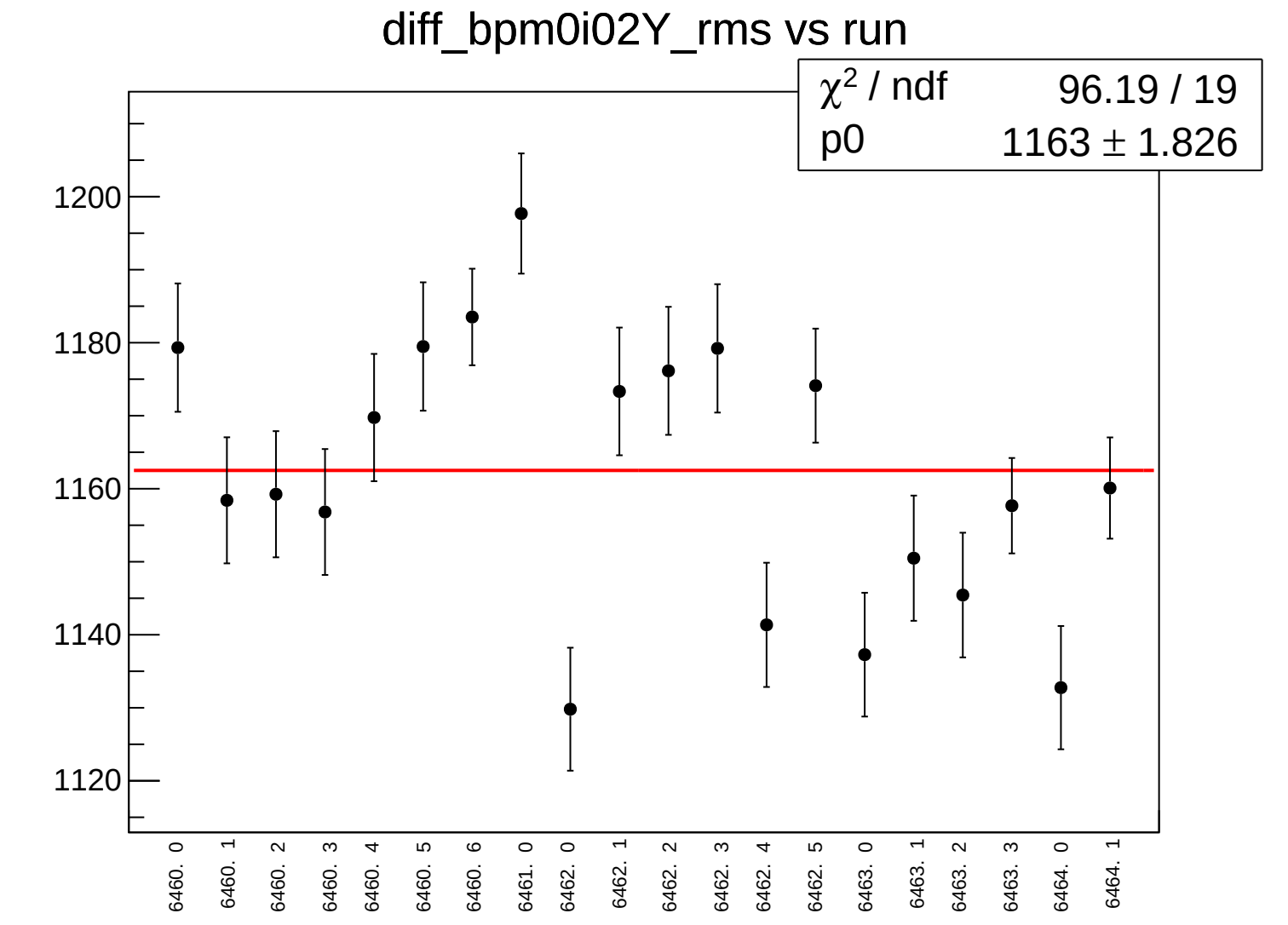

diff_bpm0i02X_mean vs run
χ² / ndf 19.55 / 19
p0 10.29 ± 3.061
60
50
40
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 28.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

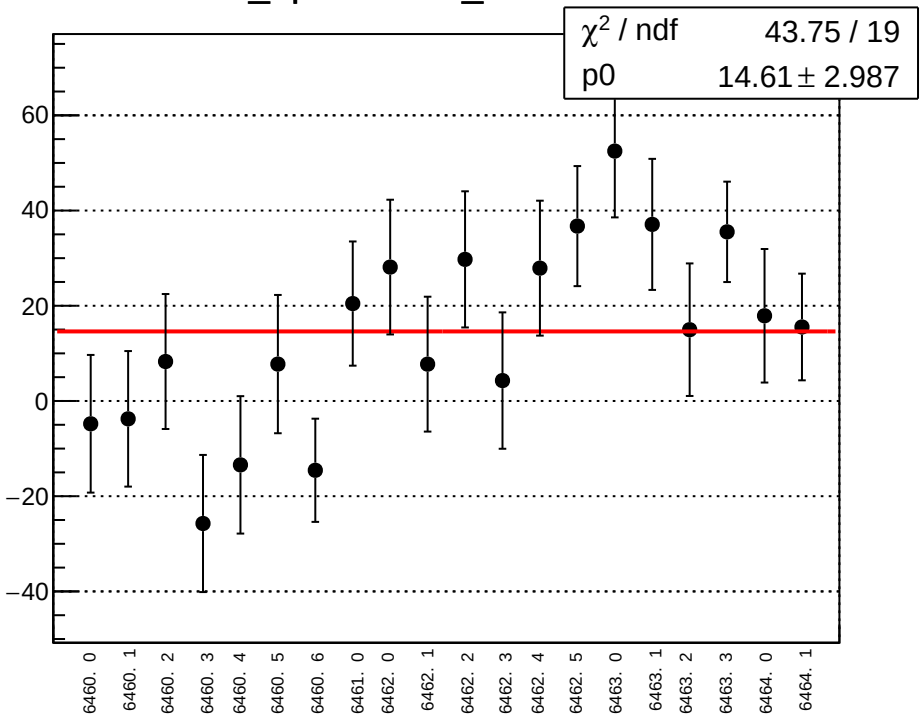

pull1D
Entries 20
Mean 0.0184
Std Dev 0.9885
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

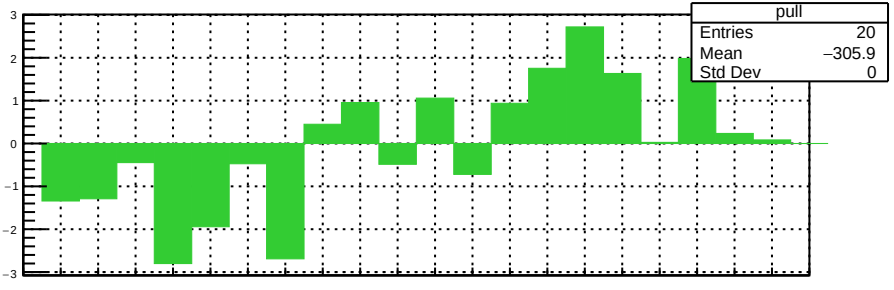

diff_bpm0i02X_rms vs run
χ² / ndf 42.44 / 19
p0 1378 ± 2.164
1420
1410
1400
1390
1380
1370
1360
1350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

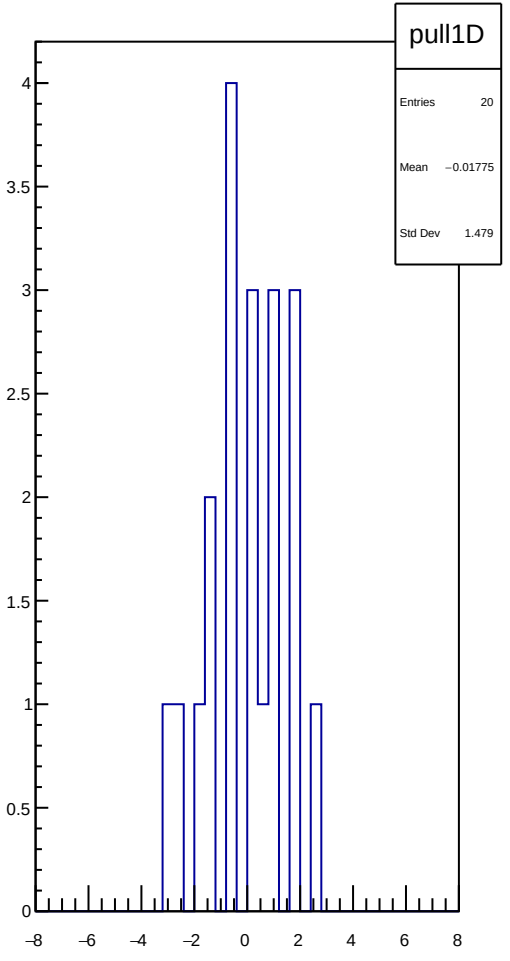

diff_bpm0i02Y_mean vs run
χ² / ndf 24.24 / 19
p0 14.7 ± 2.583
50
40
30
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 53.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

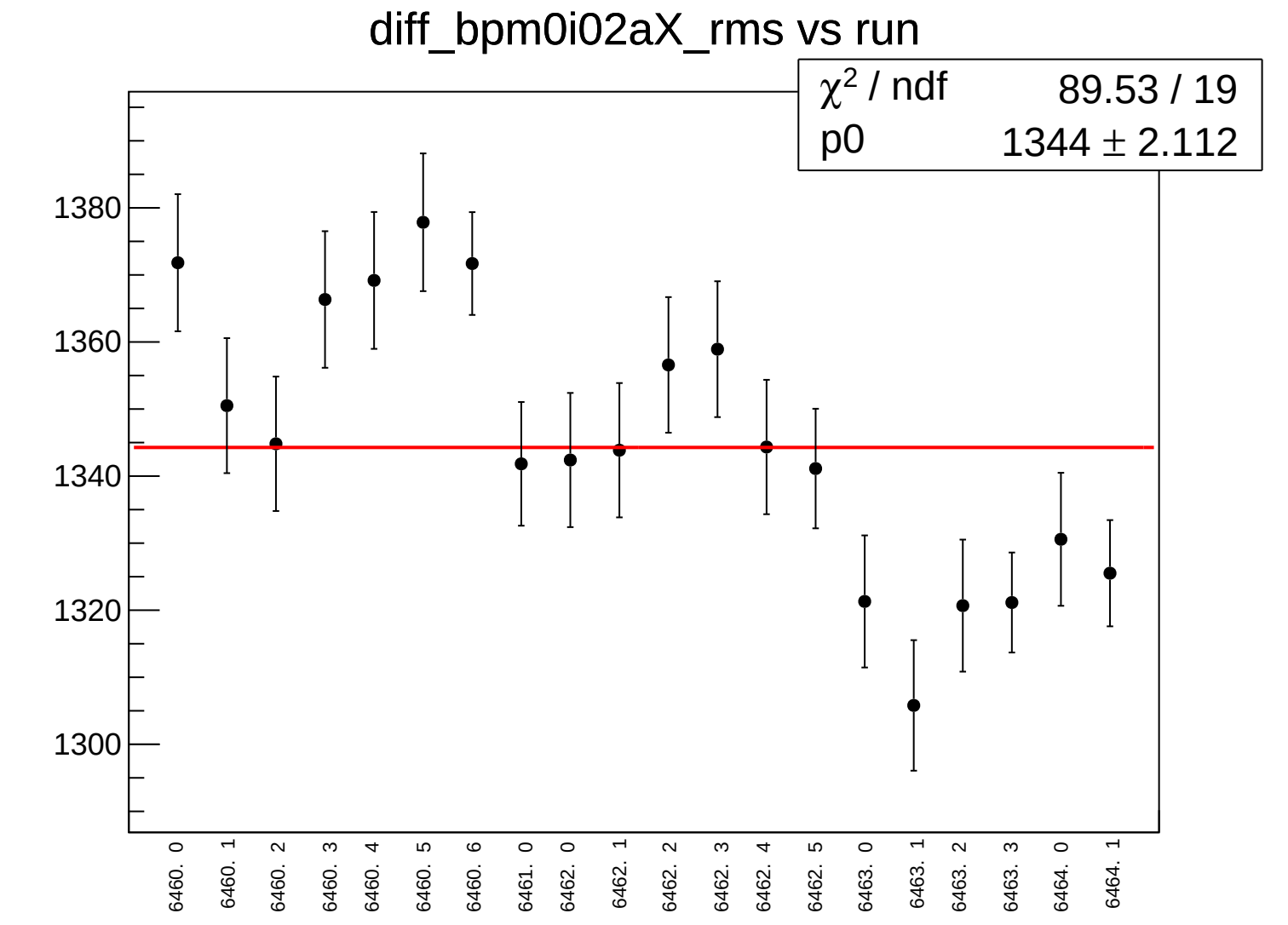

pull1D
Entries 20
Mean −0.03088
Std Dev 1.1
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

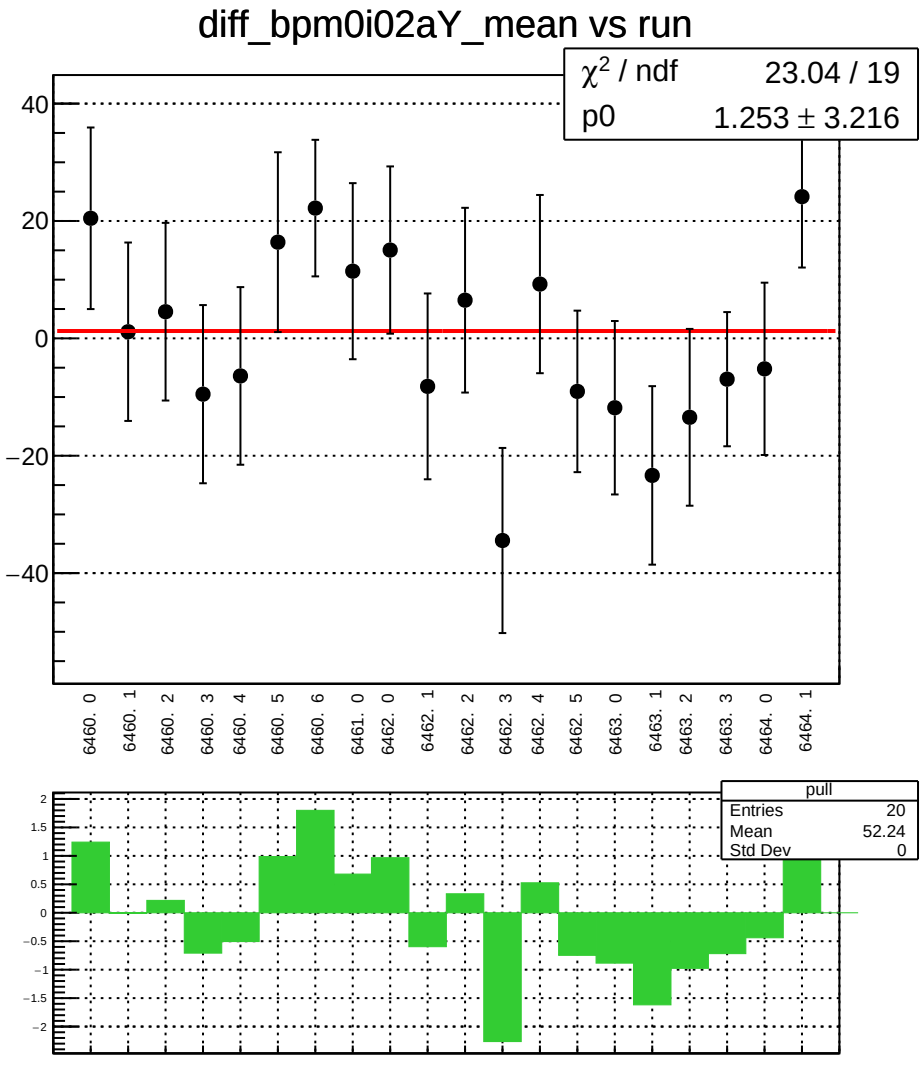

diff_bpm0i02Y_rms vs run
χ² / ndf 96.19 / 19
p0 1163 ± 1.826
1200
1180
1160
1140
1120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

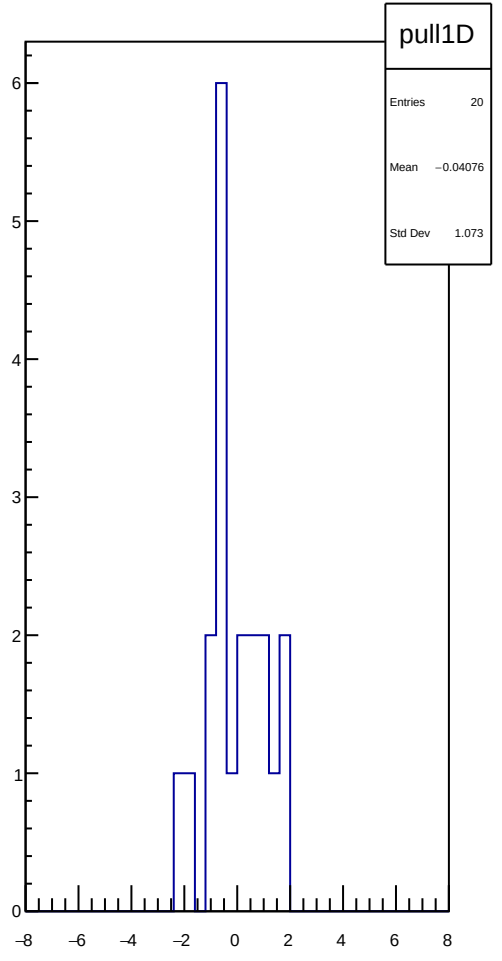

diff_bpm0i02aX_mean vs run
χ² / ndf 43.75 / 19
p0 14.61 ± 2.987
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

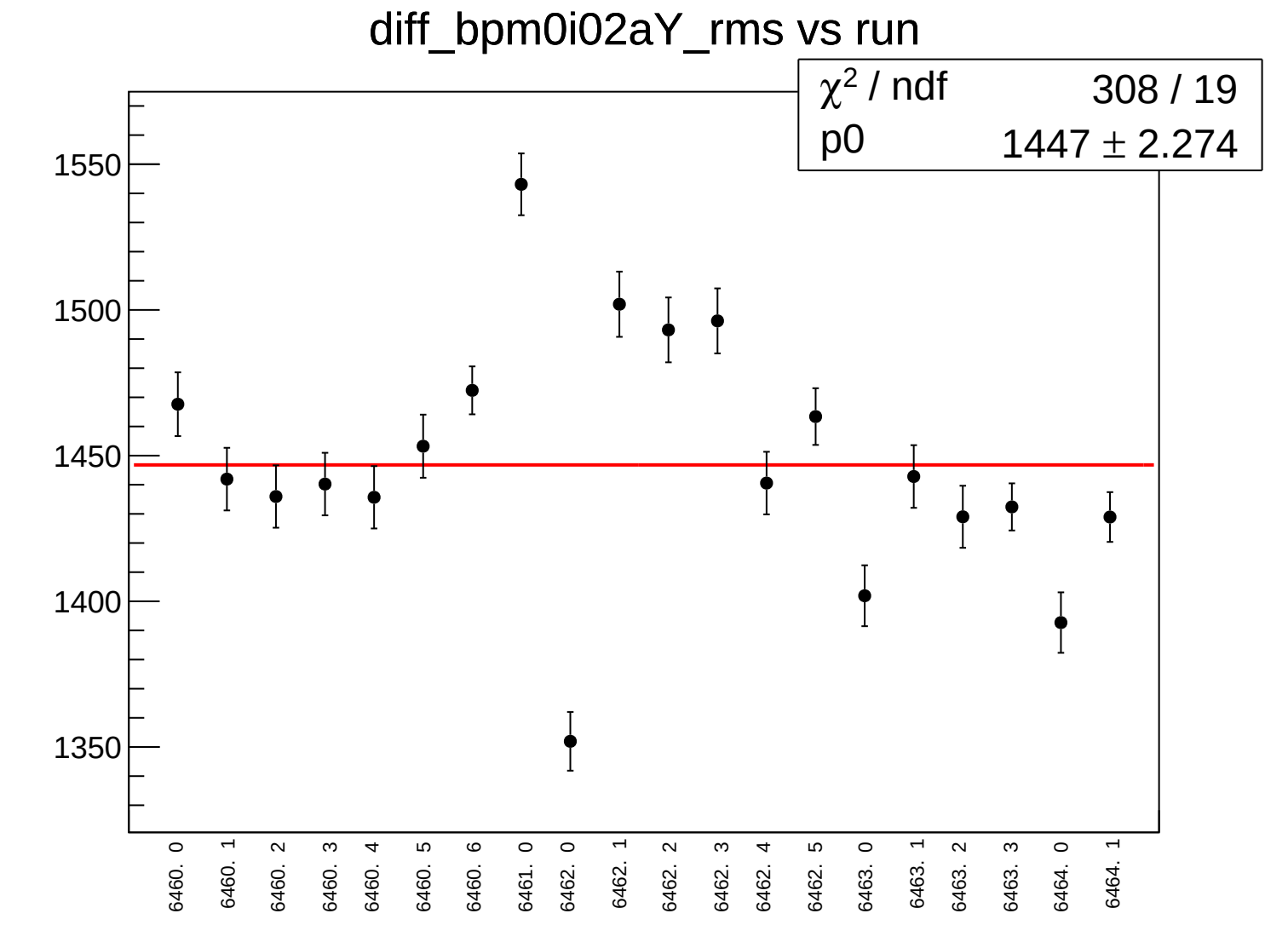

pull
Entries 20
Mean −305.9
Std Dev 0
3
2
1
0
−1
−2
−3

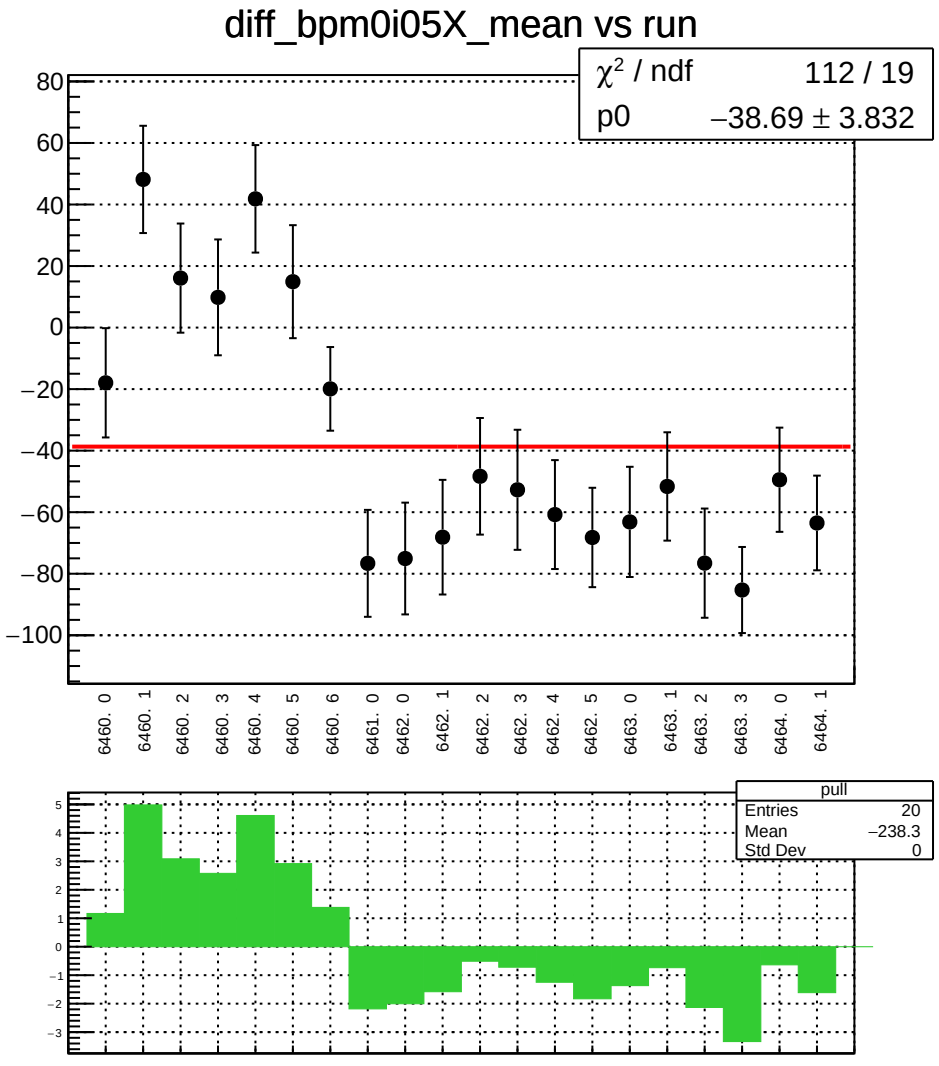

pull1D
Entries 20
Mean −0.01775
Std Dev 1.479
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

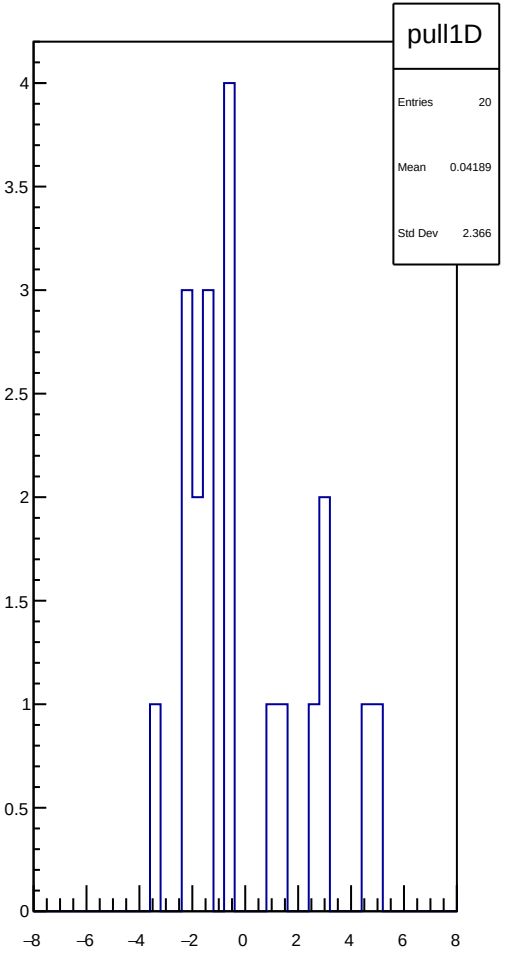

diff_bpm0i02aX_rms vs run
χ² / ndf 89.53 / 19
p0 1344 ± 2.112
1380
1360
1340
1320
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

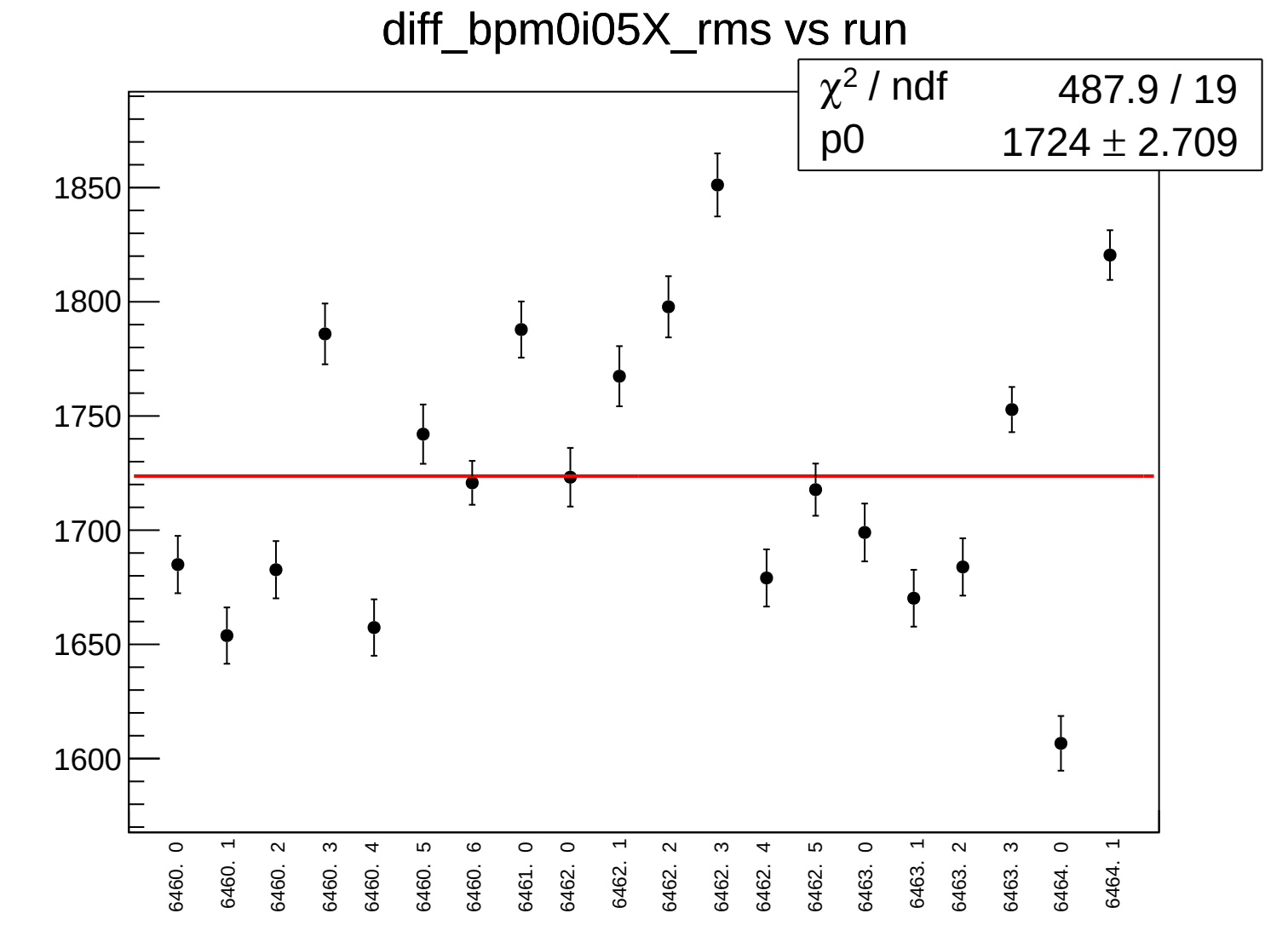

diff_bpm0i02aY_mean vs run
χ² / ndf 23.04 / 19
p0 1.253 ± 3.216
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 52.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

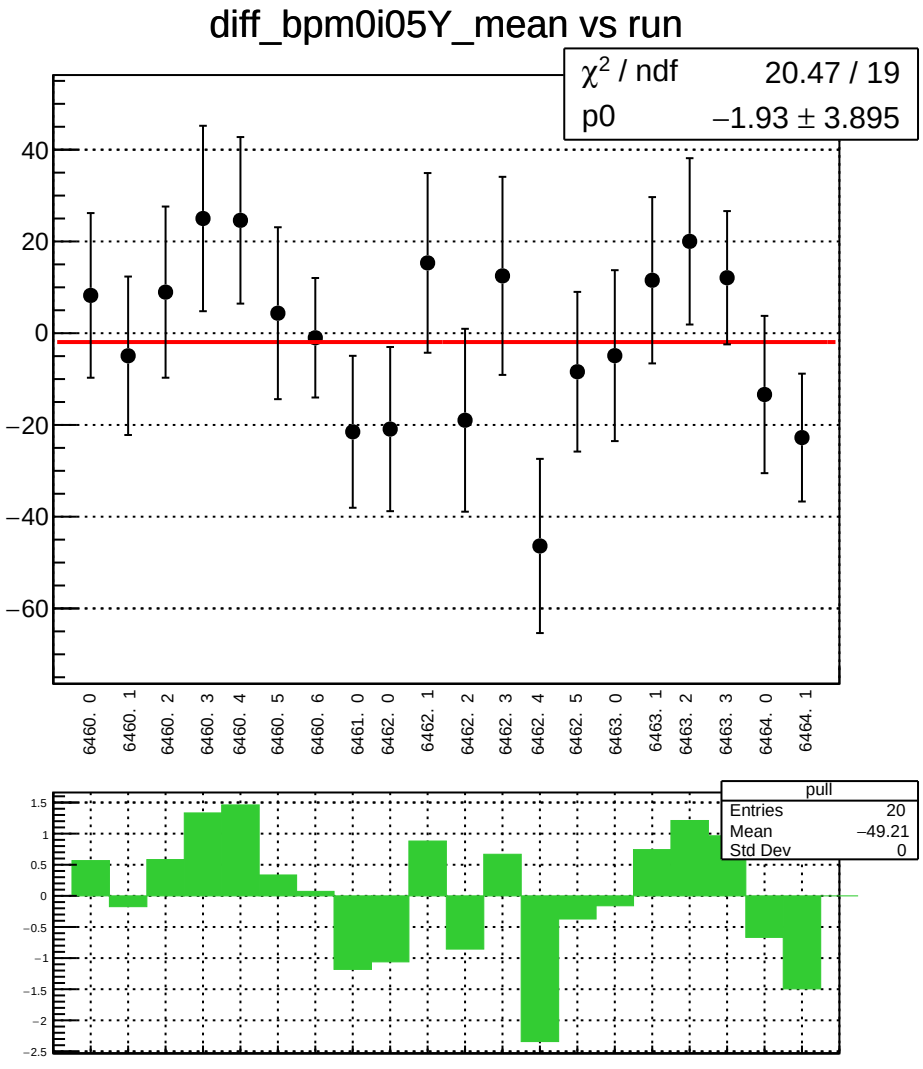

pull1D
Entries 20
Mean −0.04076
Std Dev 1.073
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

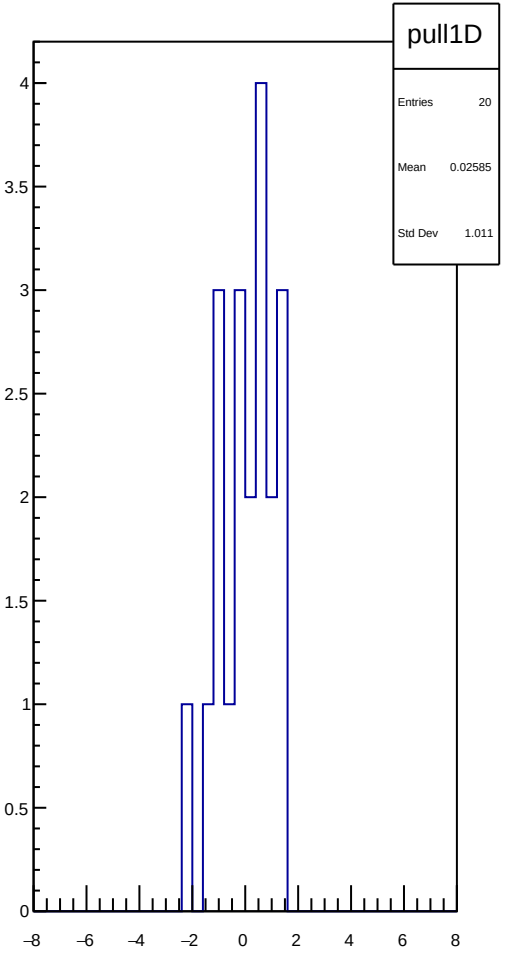

diff_bpm0i02aY_rms vs run
χ² / ndf 308 / 19
p0 1447 ± 2.274
1550
1500
1450
1400
1350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

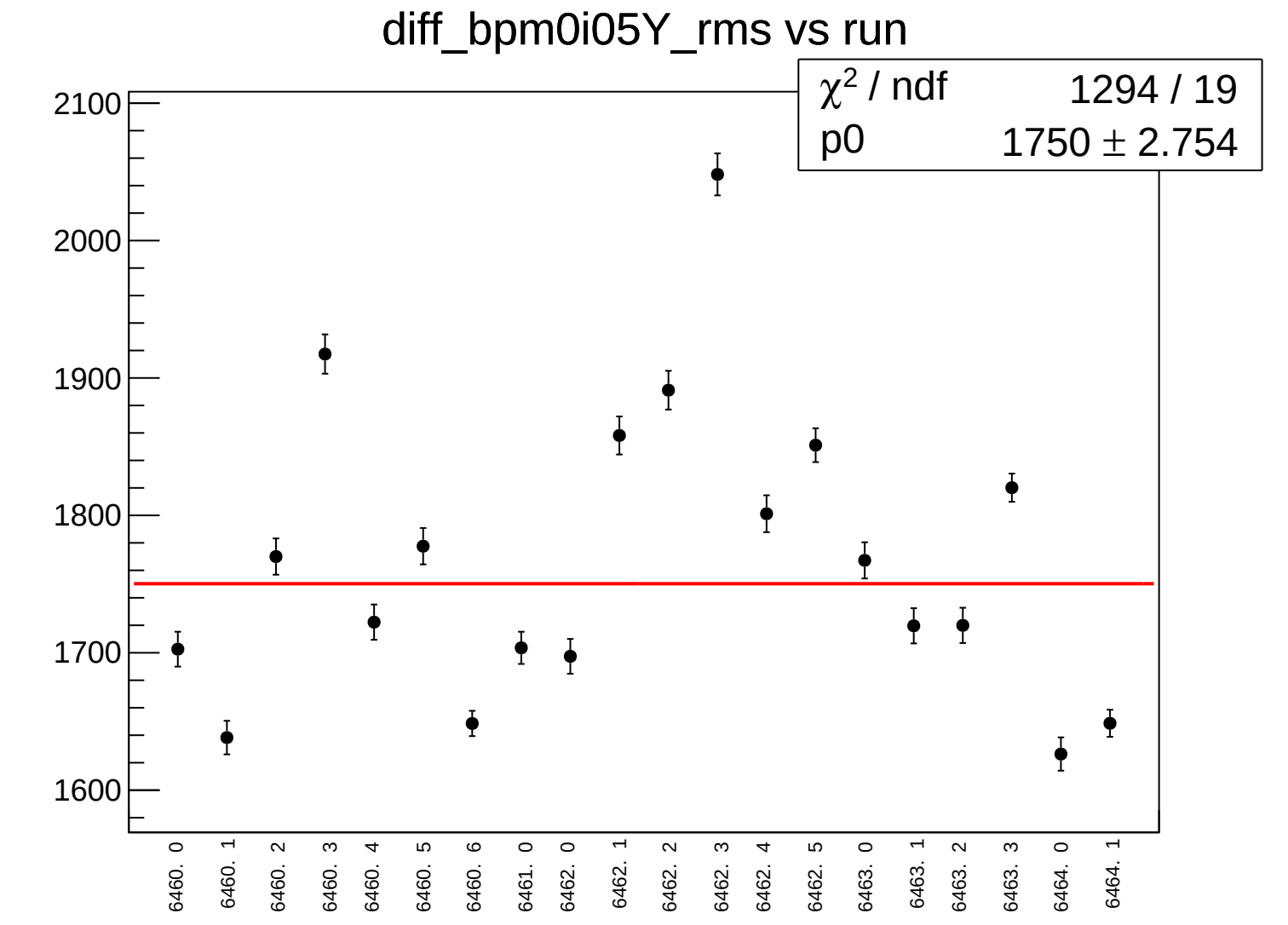

diff_bpm0i05X_mean vs run
χ² / ndf 112 / 19
p0 −38.69 ± 3.832
80
60
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −238.3
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

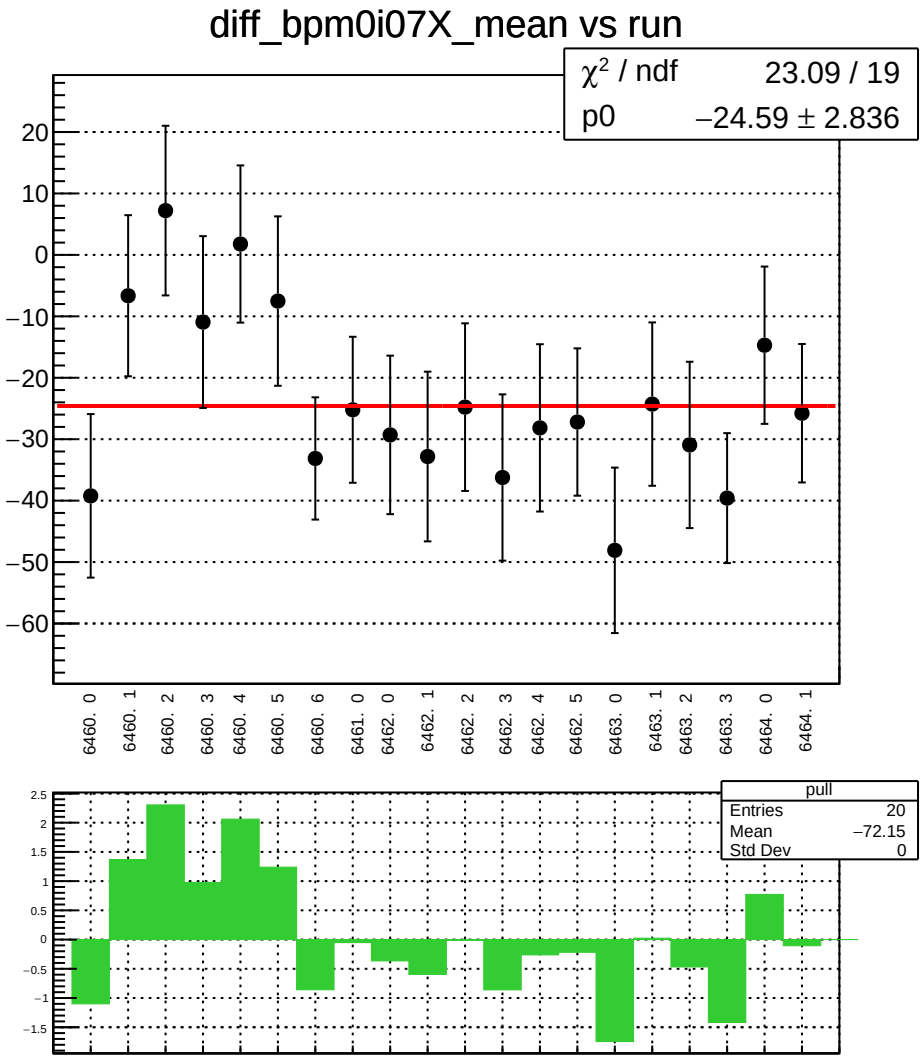

pull1D
Entries 20
Mean 0.04189
Std Dev 2.366
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

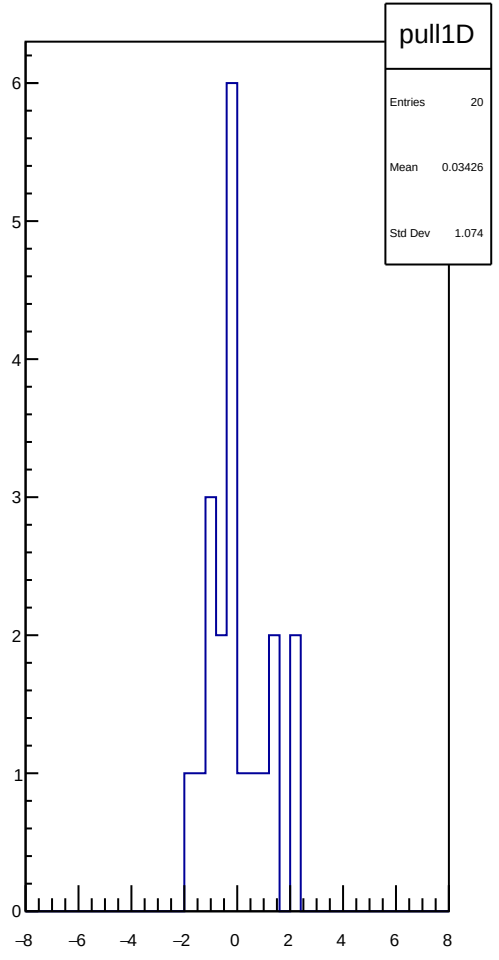

diff_bpm0i05X_rms vs run
χ² / ndf 487.9 / 19
p0 1724 ± 2.709
1850
1800
1750
1700
1650
1600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

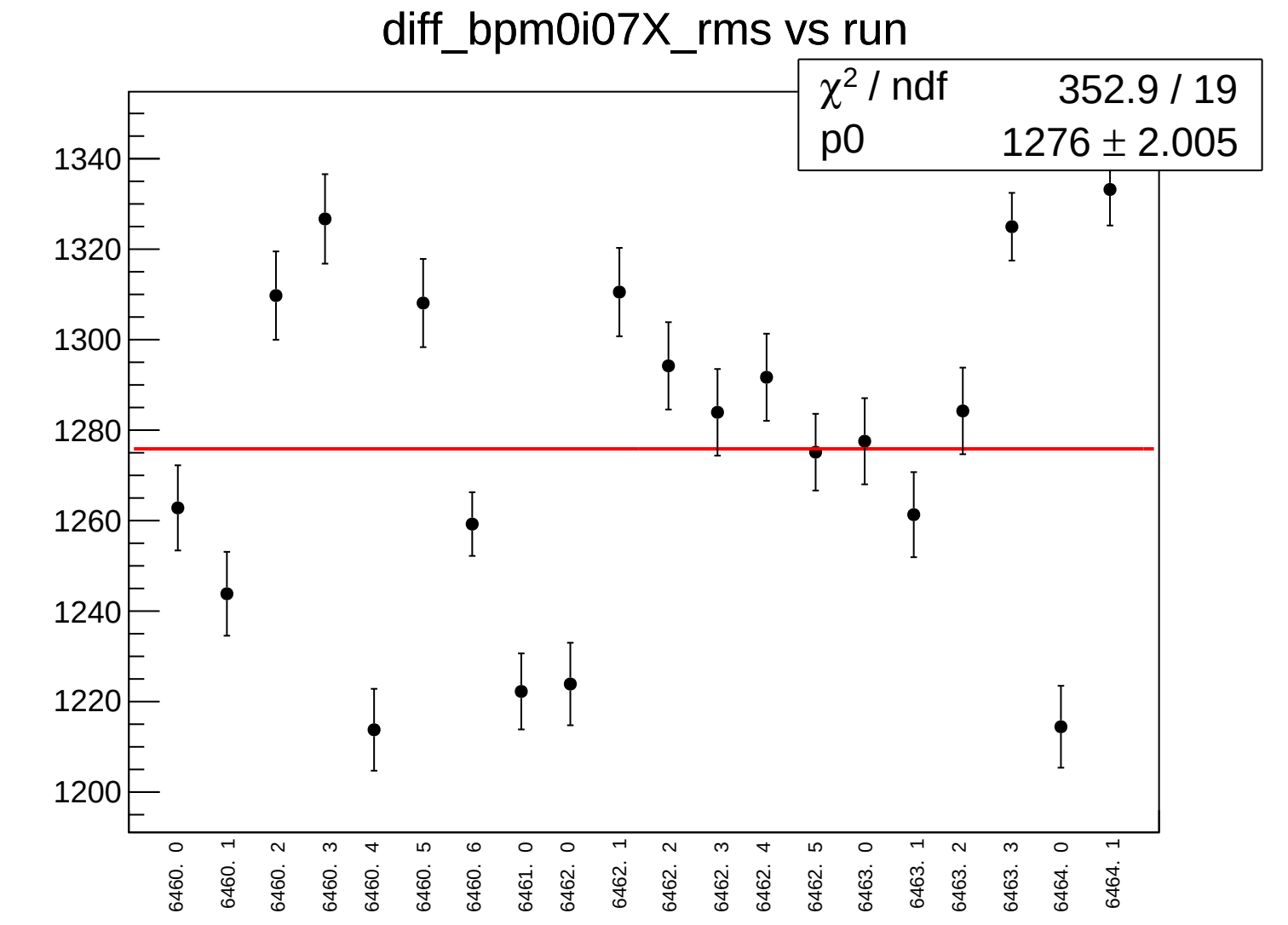

diff_bpm0i05Y_mean vs run
χ² / ndf 20.47 / 19
p0 −1.93 ± 3.895
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

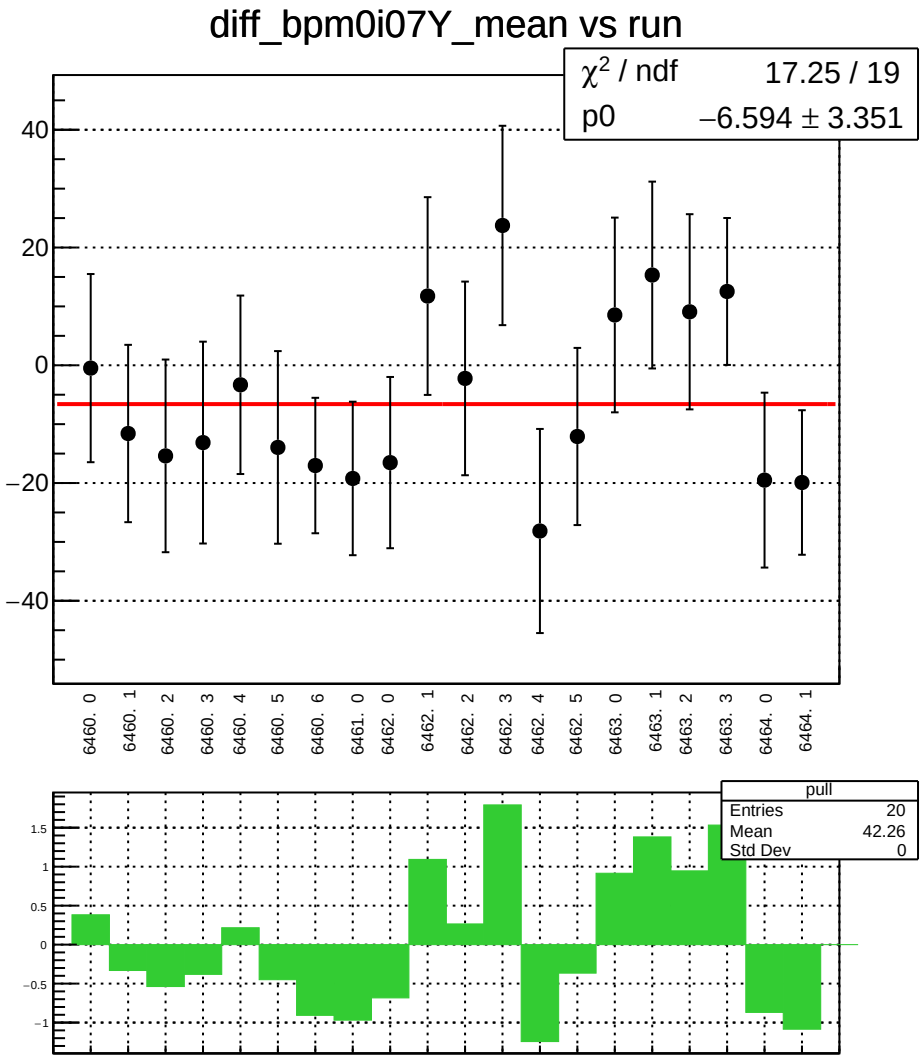

pull1D
Entries 20
Mean 0.02585
Std Dev 1.011
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

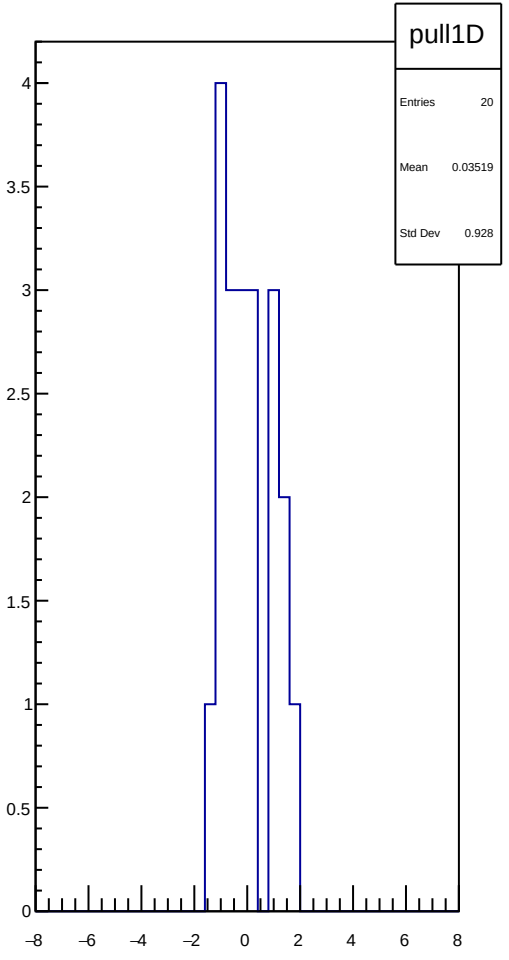

diff_bpm0i05Y_rms vs run
χ² / ndf 1294 / 19
p0 1750 ± 2.754
2100
2000
1900
1800
1700
1600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

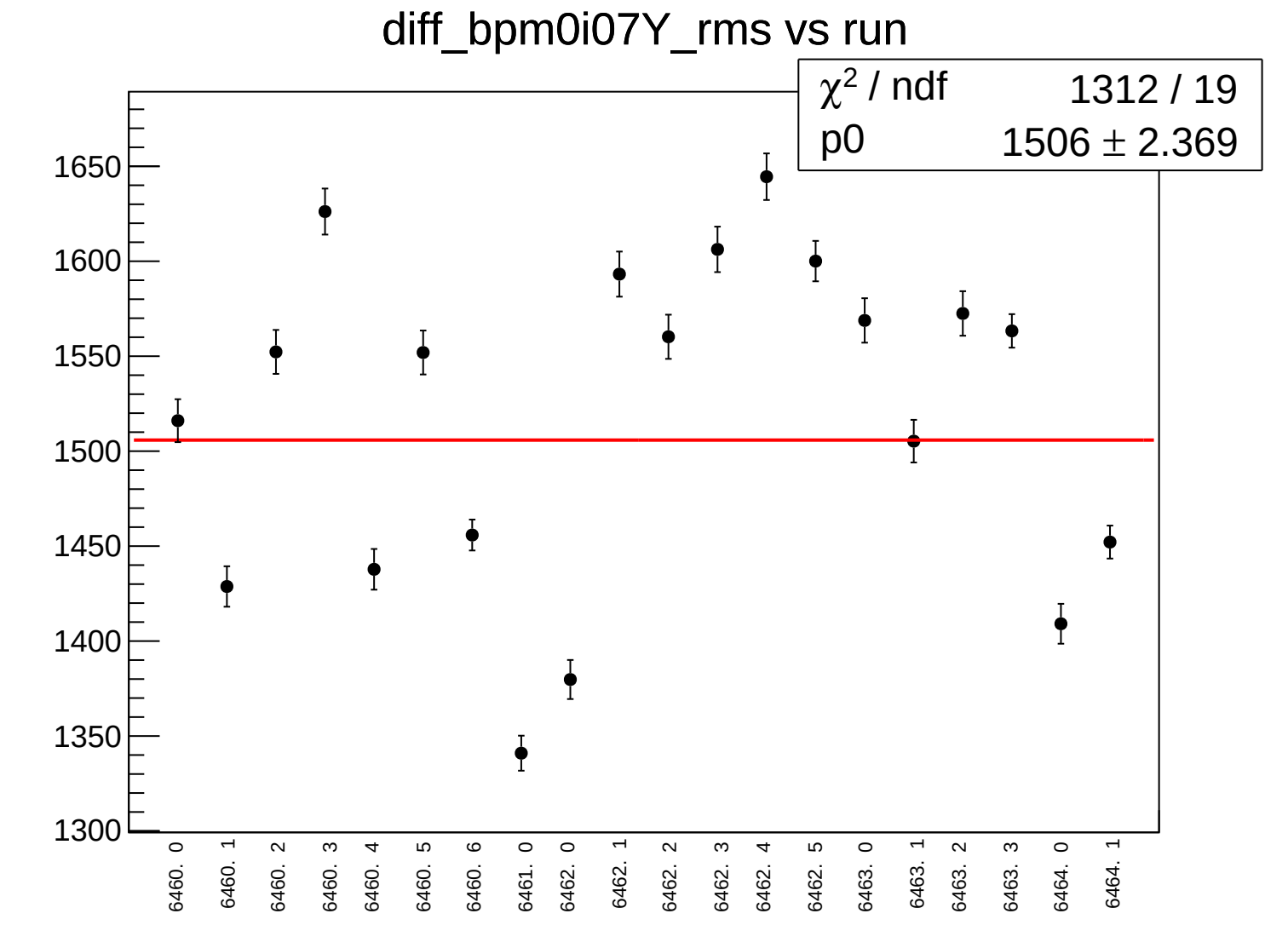

diff_bpm0i07X_mean vs run
χ² / ndf 23.09 / 19
p0 −24.59 ± 2.836
20
10
0
−10
−20
−30
−40
−50
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −72.15
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

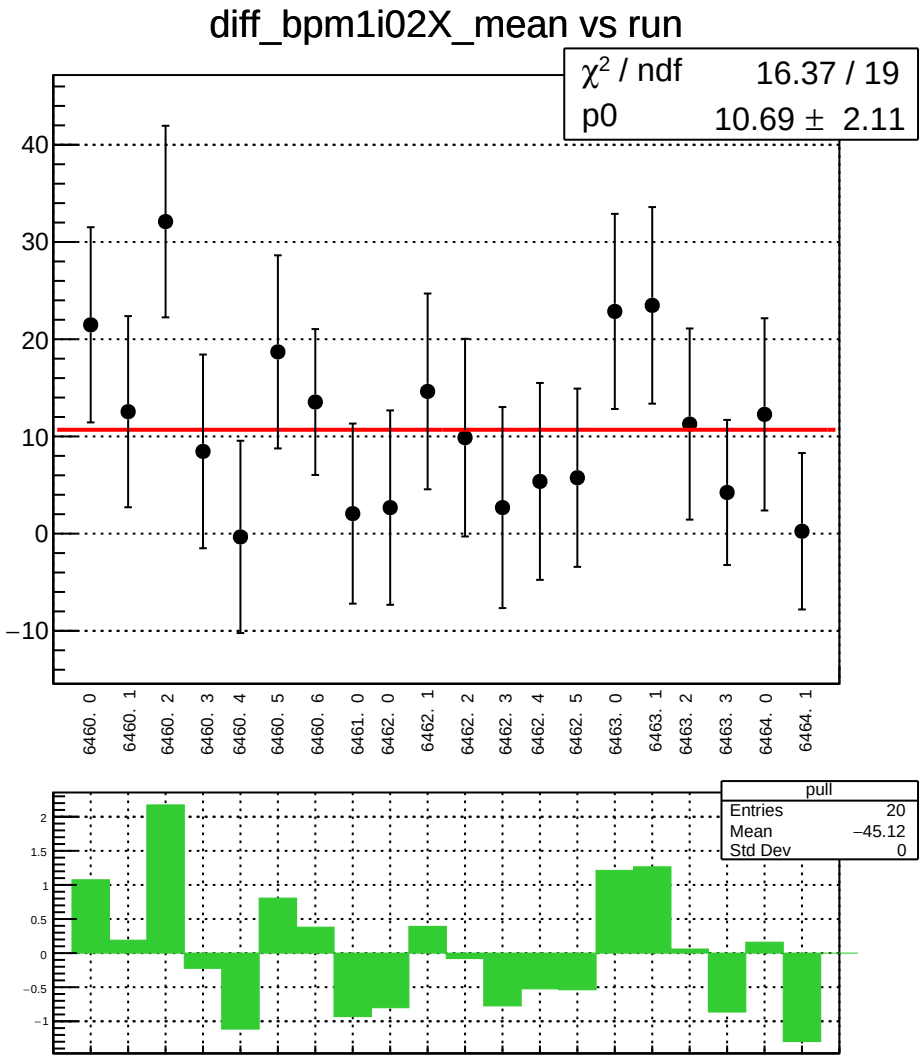

pull1D
Entries 20
Mean 0.03426
Std Dev 1.074
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

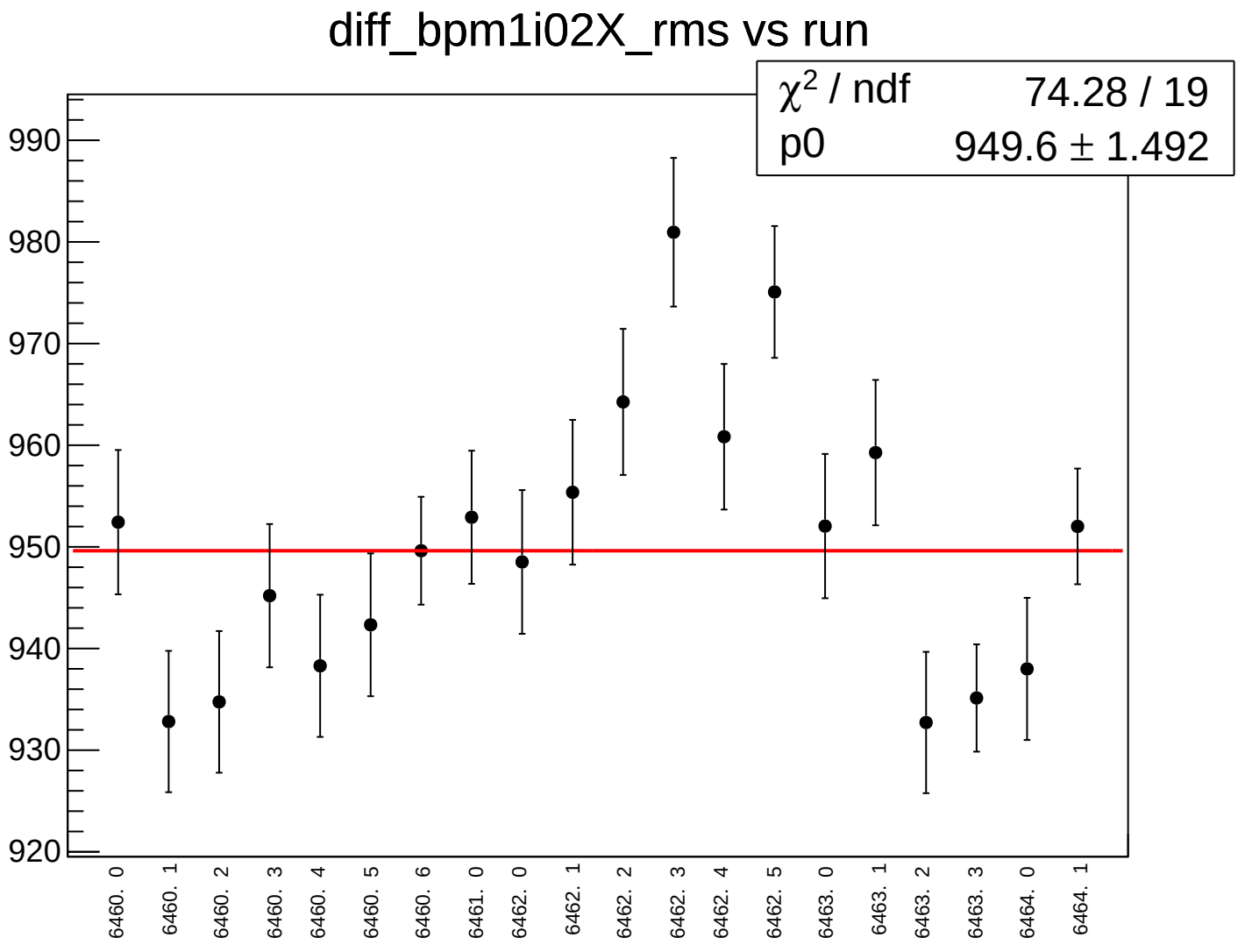

diff_bpm0i07X_rms vs run
χ² / ndf 352.9 / 19
p0 1276 ± 2.005
1340
1320
1300
1280
1260
1240
1220
1200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

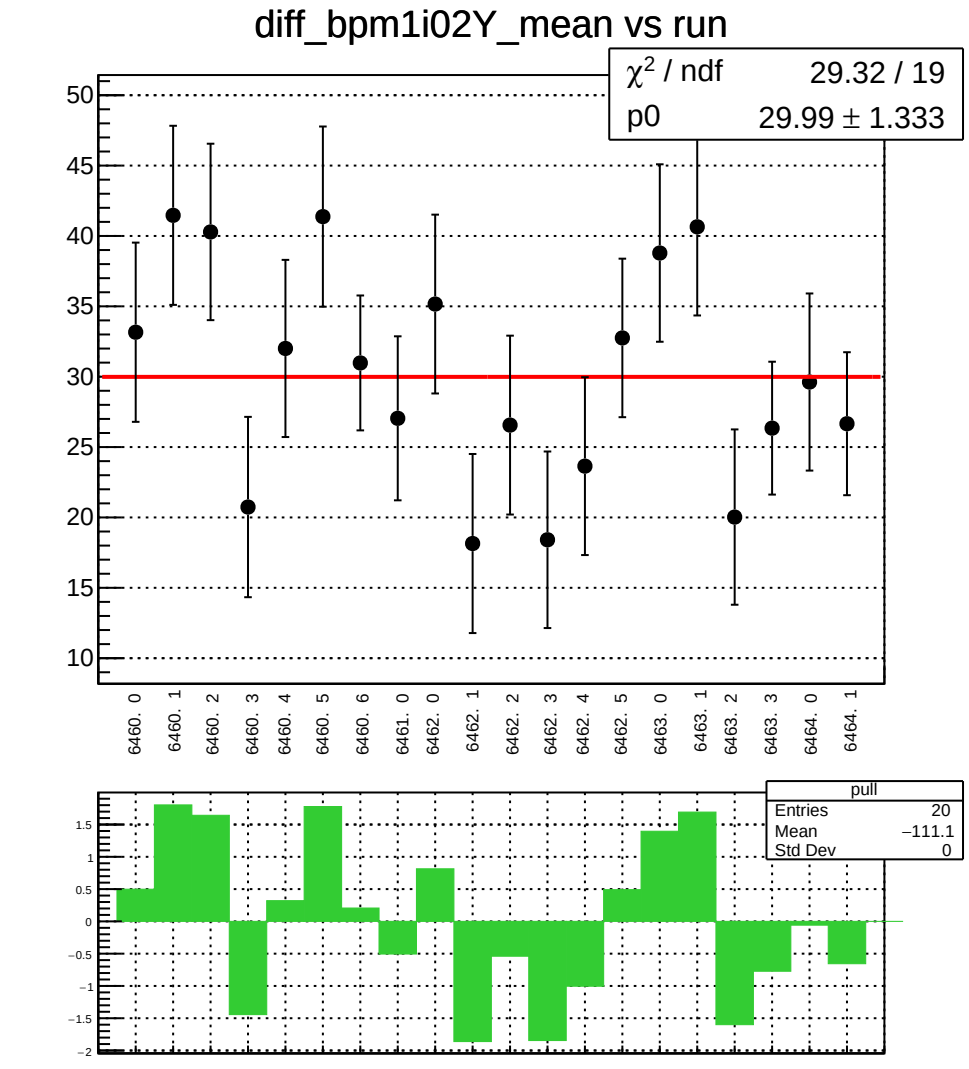

diff_bpm0i07Y_mean vs run
χ² / ndf 17.25 / 19
p0 −6.594 ± 3.351
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 42.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1

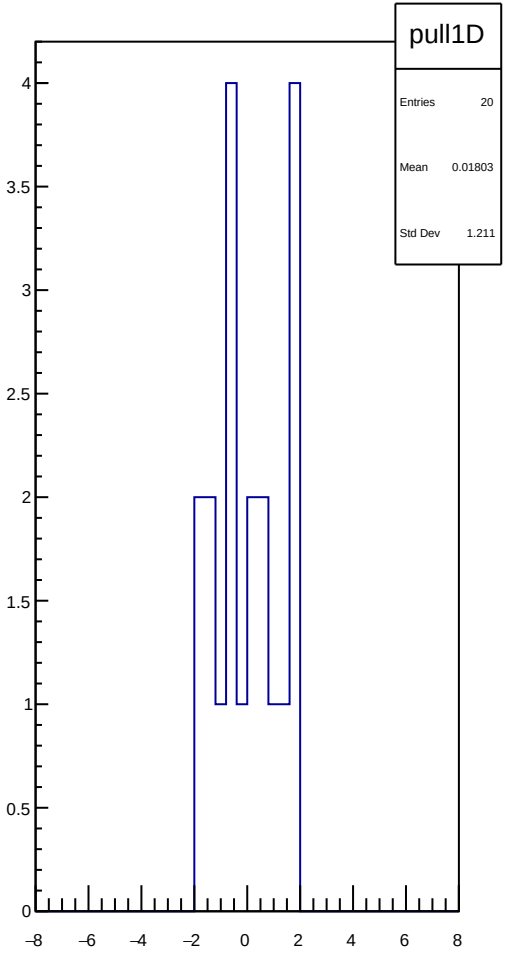

pull1D
Entries 20
Mean 0.03519
Std Dev 0.928
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

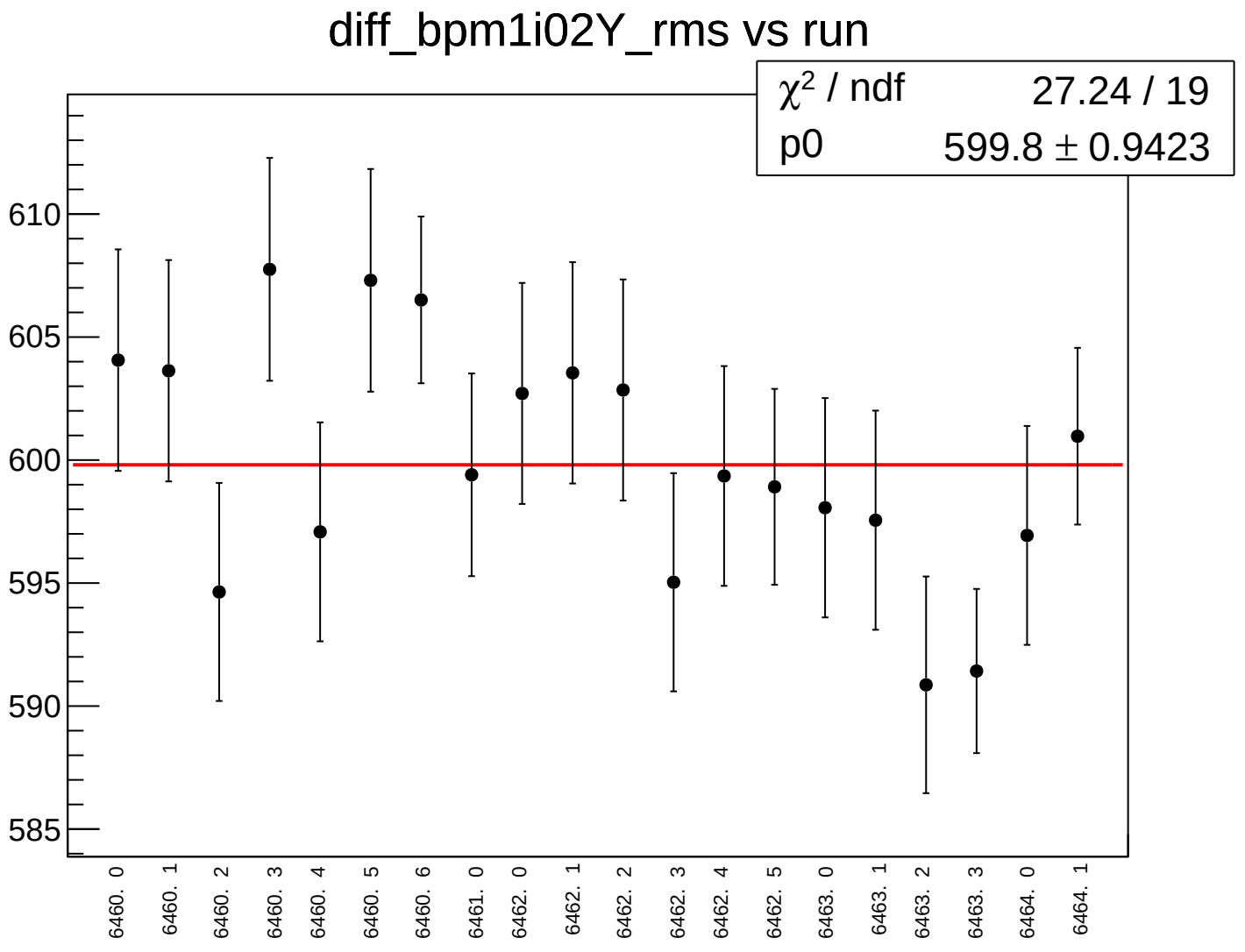

diff_bpm0i07Y_rms vs run
χ² / ndf 1312 / 19
p0 1506 ± 2.369
1650
1600
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

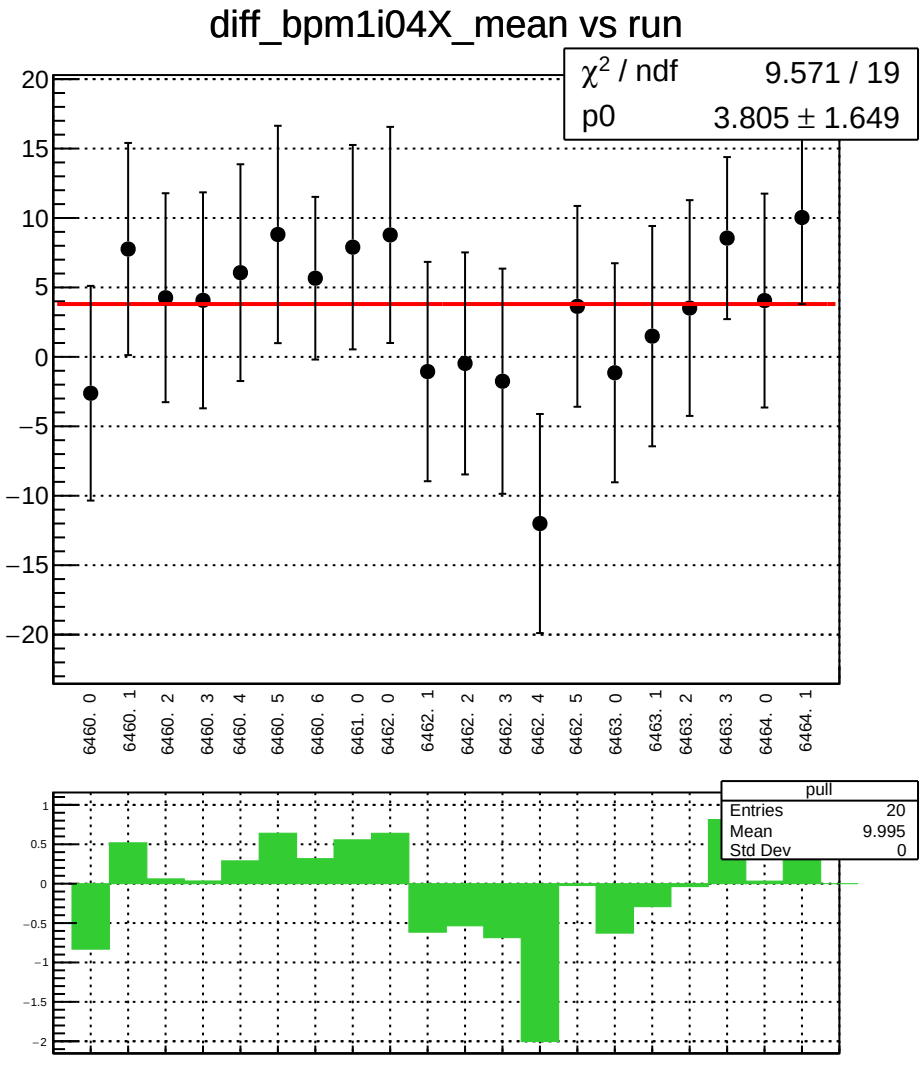

diff_bpm1i02X_mean vs run
χ² / ndf 16.37 / 19
p0 10.69 ± 2.11
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02831
Std Dev 0.9042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

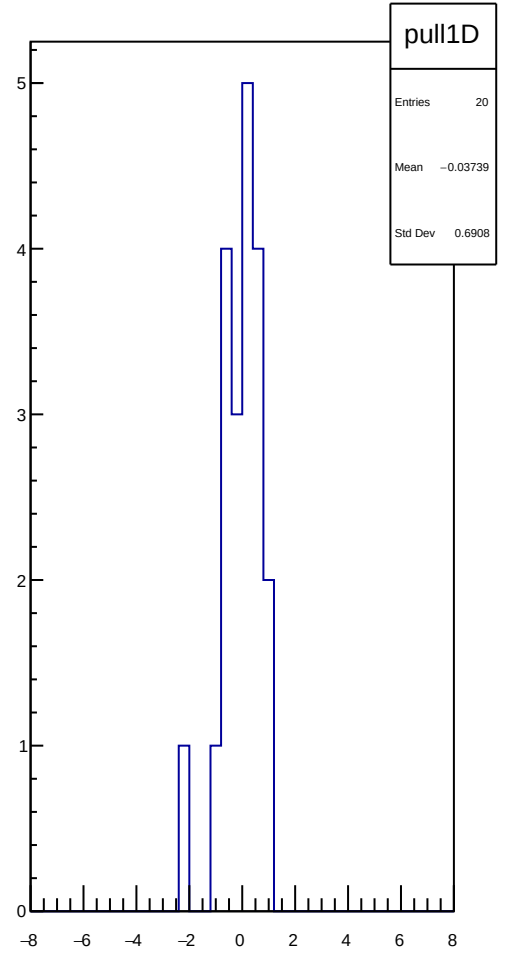

diff_bpm1i02X_rms vs run
χ² / ndf 74.28 / 19
p0 949.6 ± 1.492
990
980
970
960
950
940
930
920
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

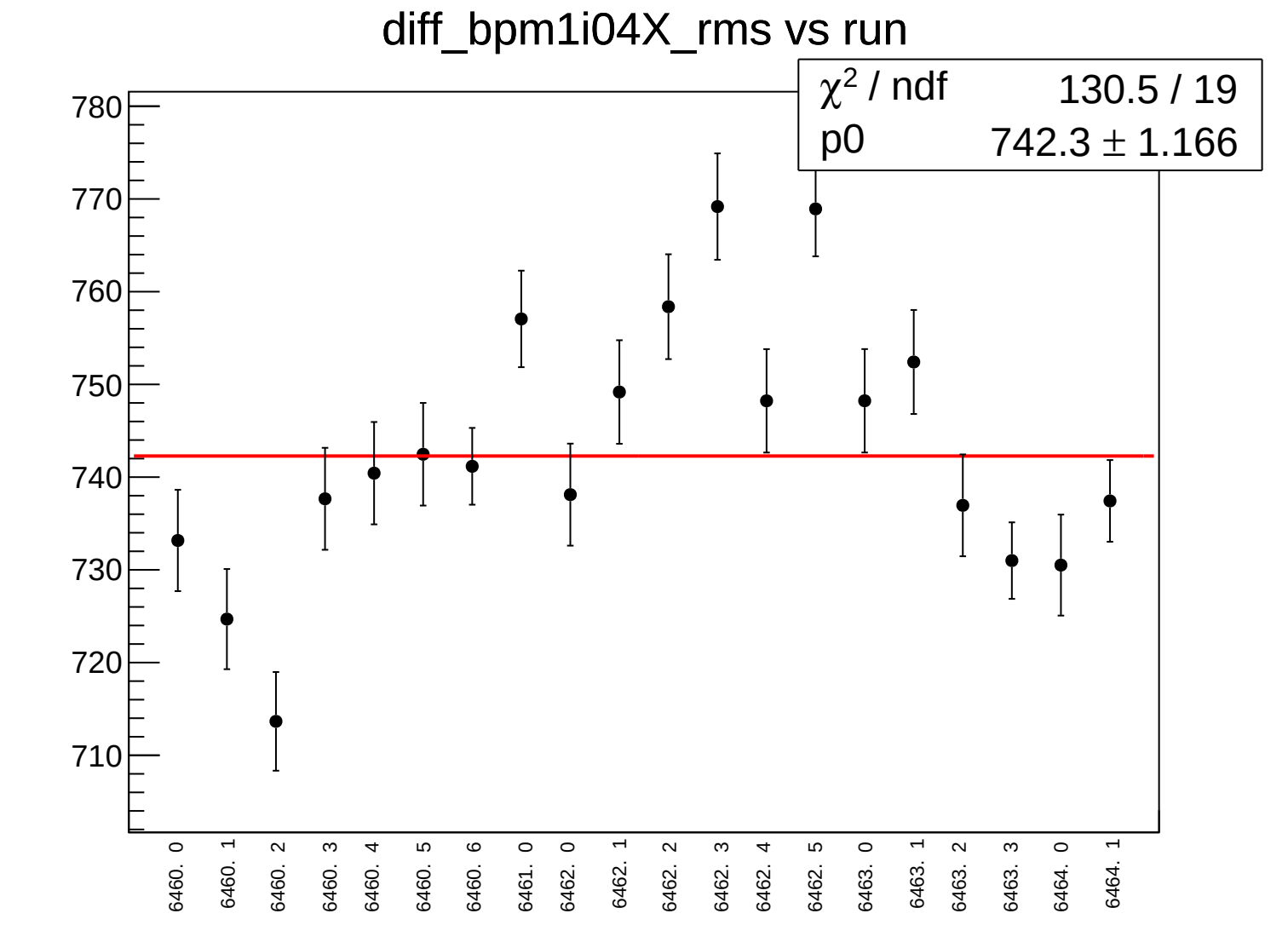

diff_bpm1i02Y_mean vs run
χ² / ndf 29.32 / 19
p0 29.99 ± 1.333
50
45
40
35
30
25
20
15
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −111.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

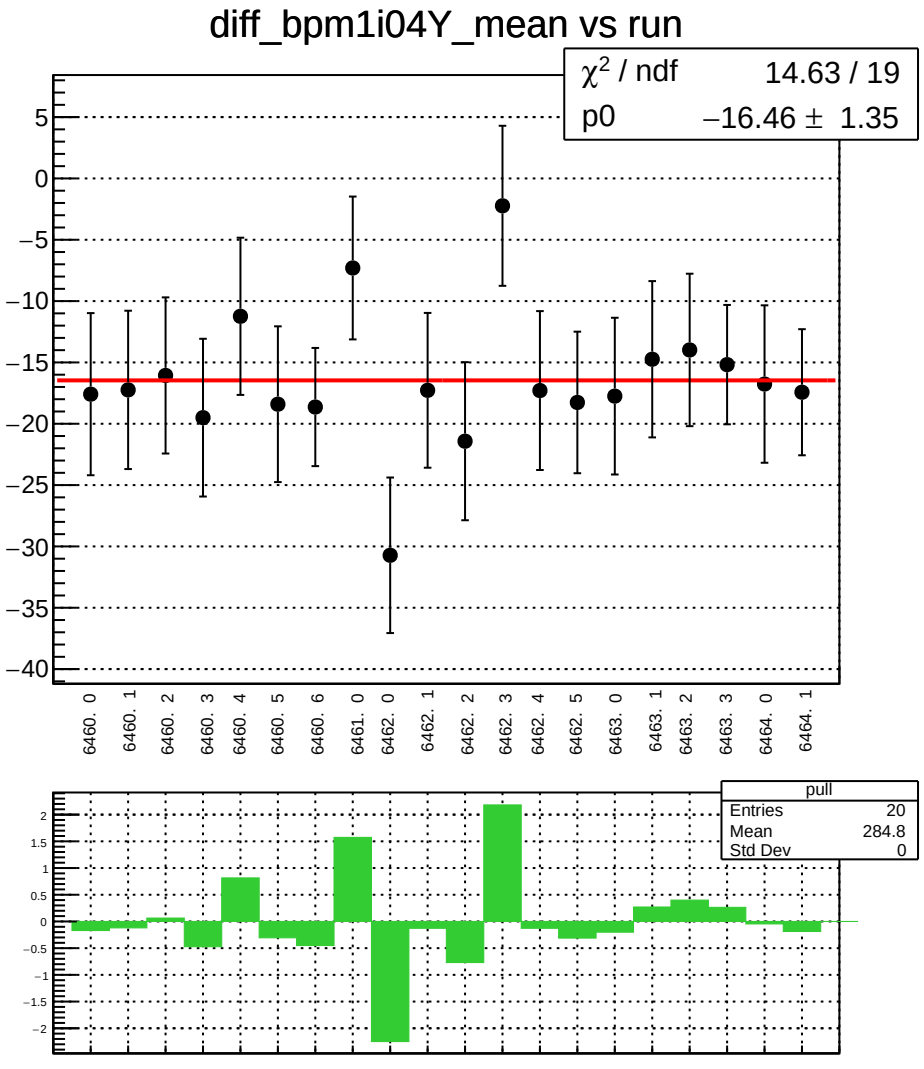

pull1D
Entries 20
Mean 0.01803
Std Dev 1.211
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

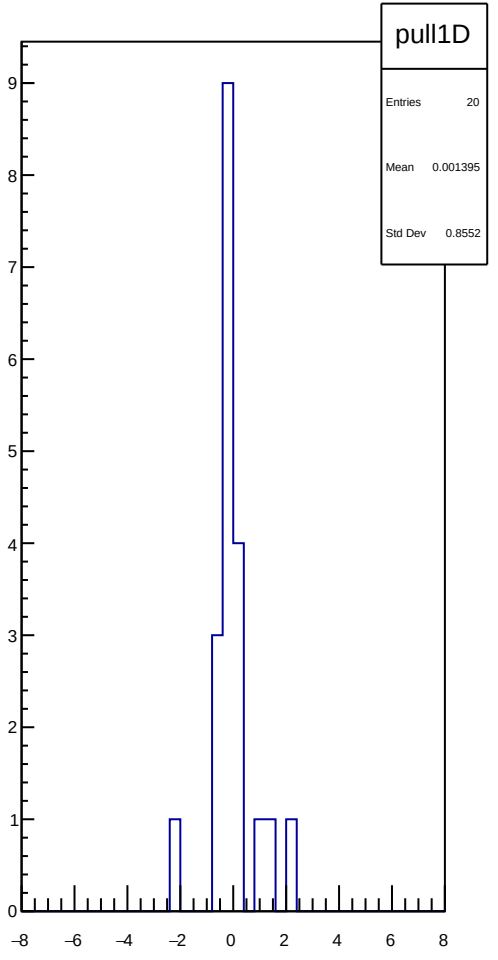

diff_bpm1i02Y_rms vs run
χ² / ndf 27.24 / 19
p0 599.8 ± 0.9423
610
605
600
595
590
585
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

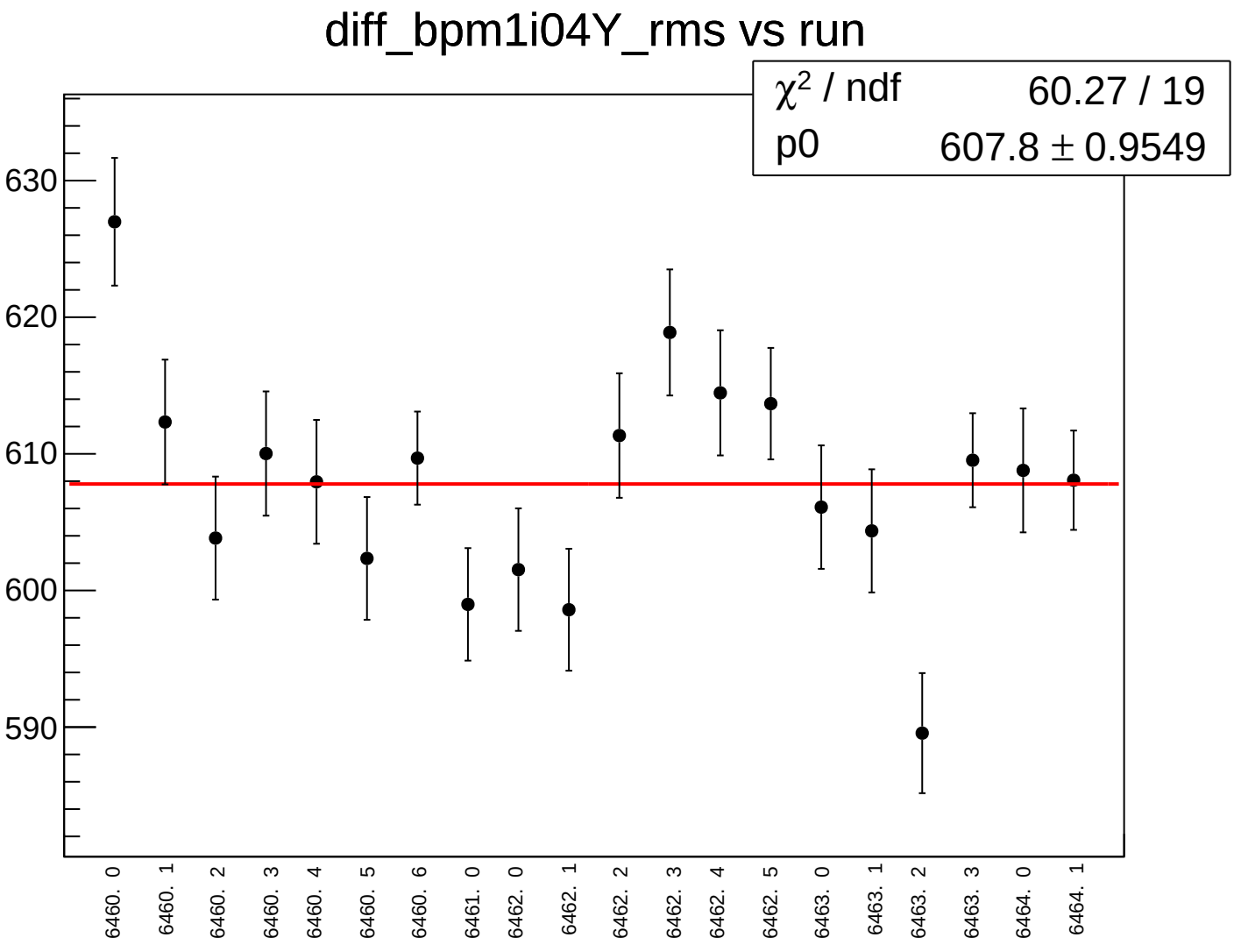

diff_bpm1i04X_mean vs run
χ² / ndf 9.571 / 19
p0 3.805 ± 1.649
20
15
10
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.995
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

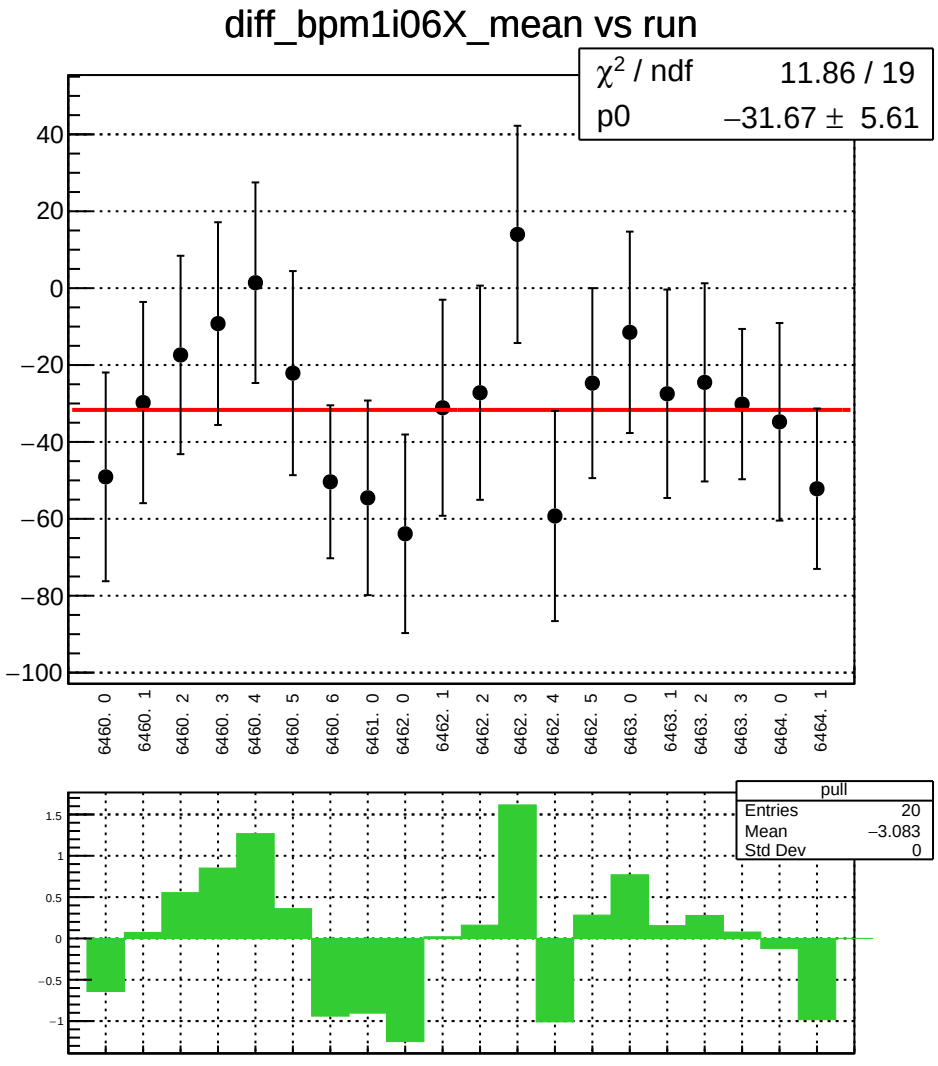

pull1D
Entries 20
Mean −0.03739
Std Dev 0.6908
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

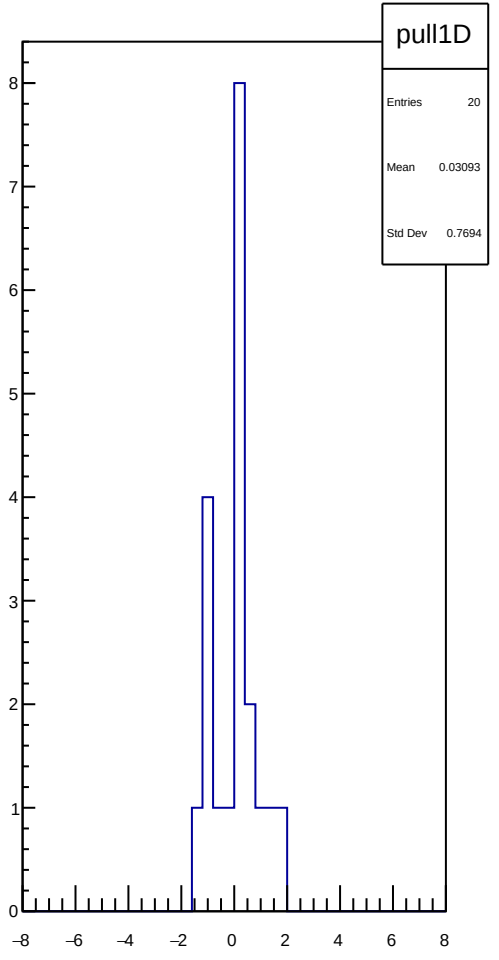

diff_bpm1i04X_rms vs run
χ^2 / ndf 130.5 / 19
p0 742.3 ± 1.166
780
770
760
750
740
730
720
710
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

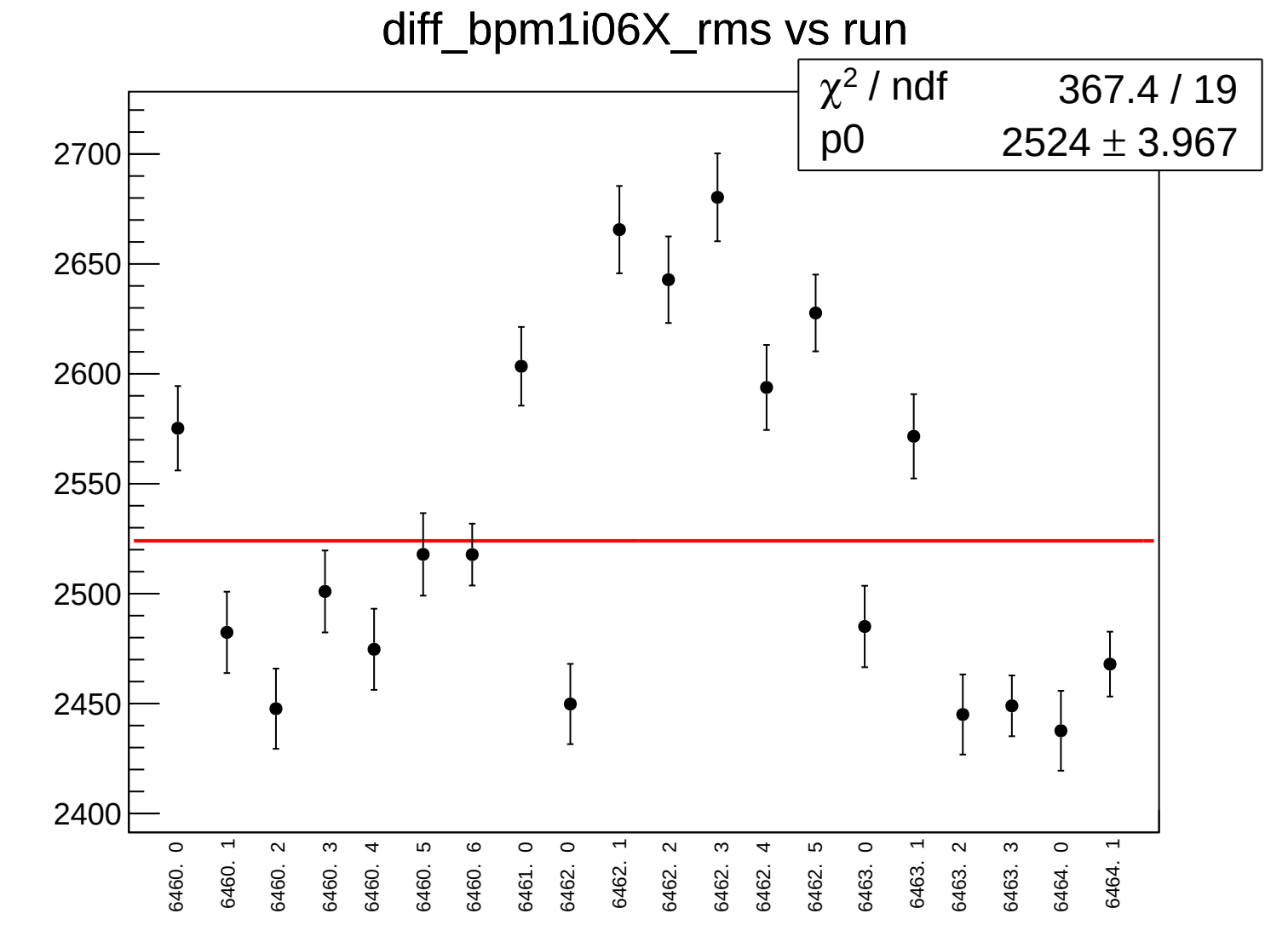

diff_bpm1i04Y_mean vs run
χ² / ndf 14.63 / 19
p0 −16.46 ± 1.35
5
0
−5
−10
−15
−20
−25
−30
−35
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 284.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

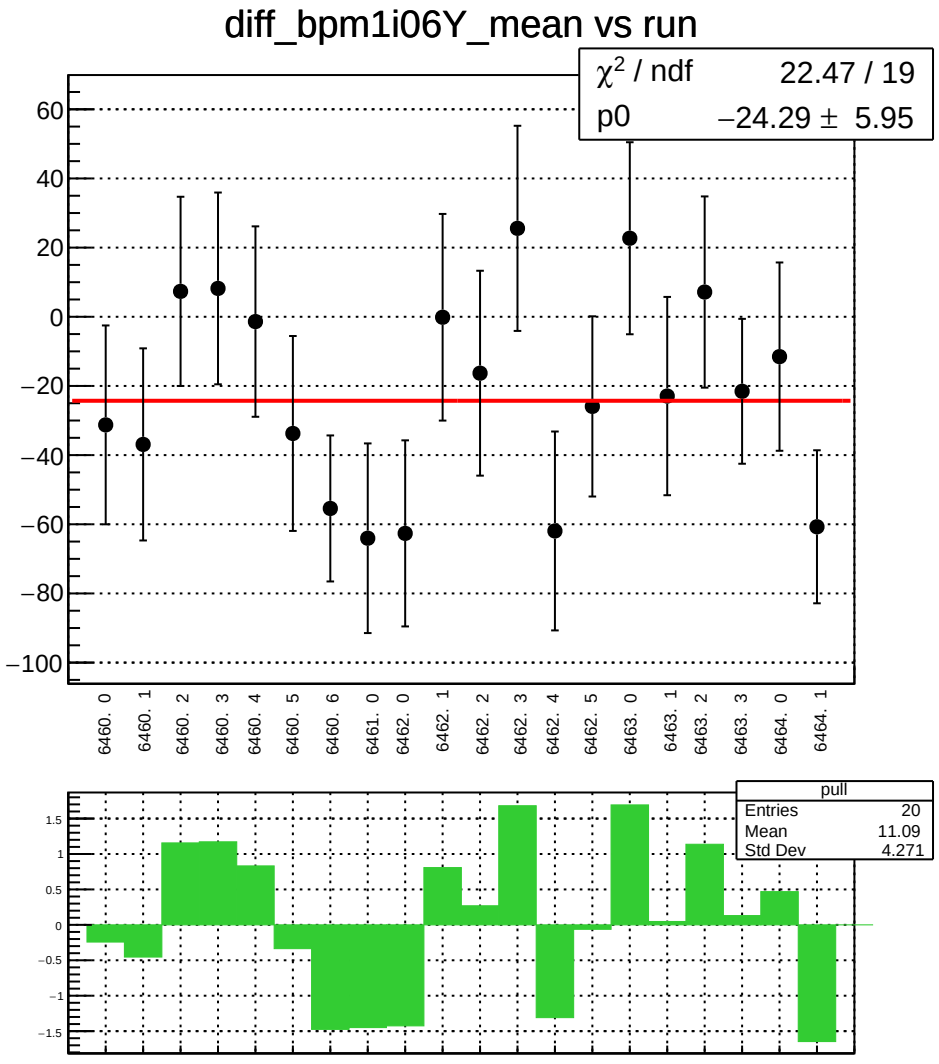

pull1D
Entries 20
Mean 0.001395
Std Dev 0.8552
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

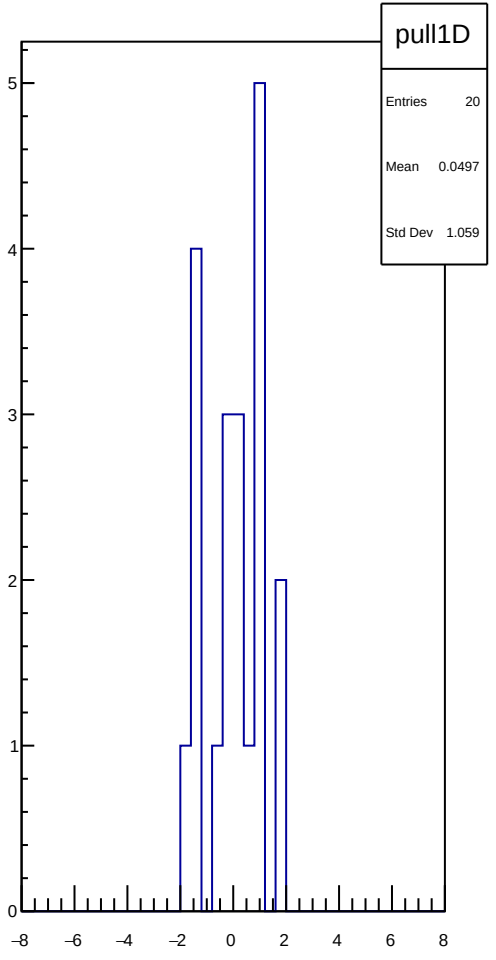

diff_bpm1i04Y_rms vs run
χ² / ndf 60.27 / 19
p0 607.8 ± 0.9549
630
620
610
600
590
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

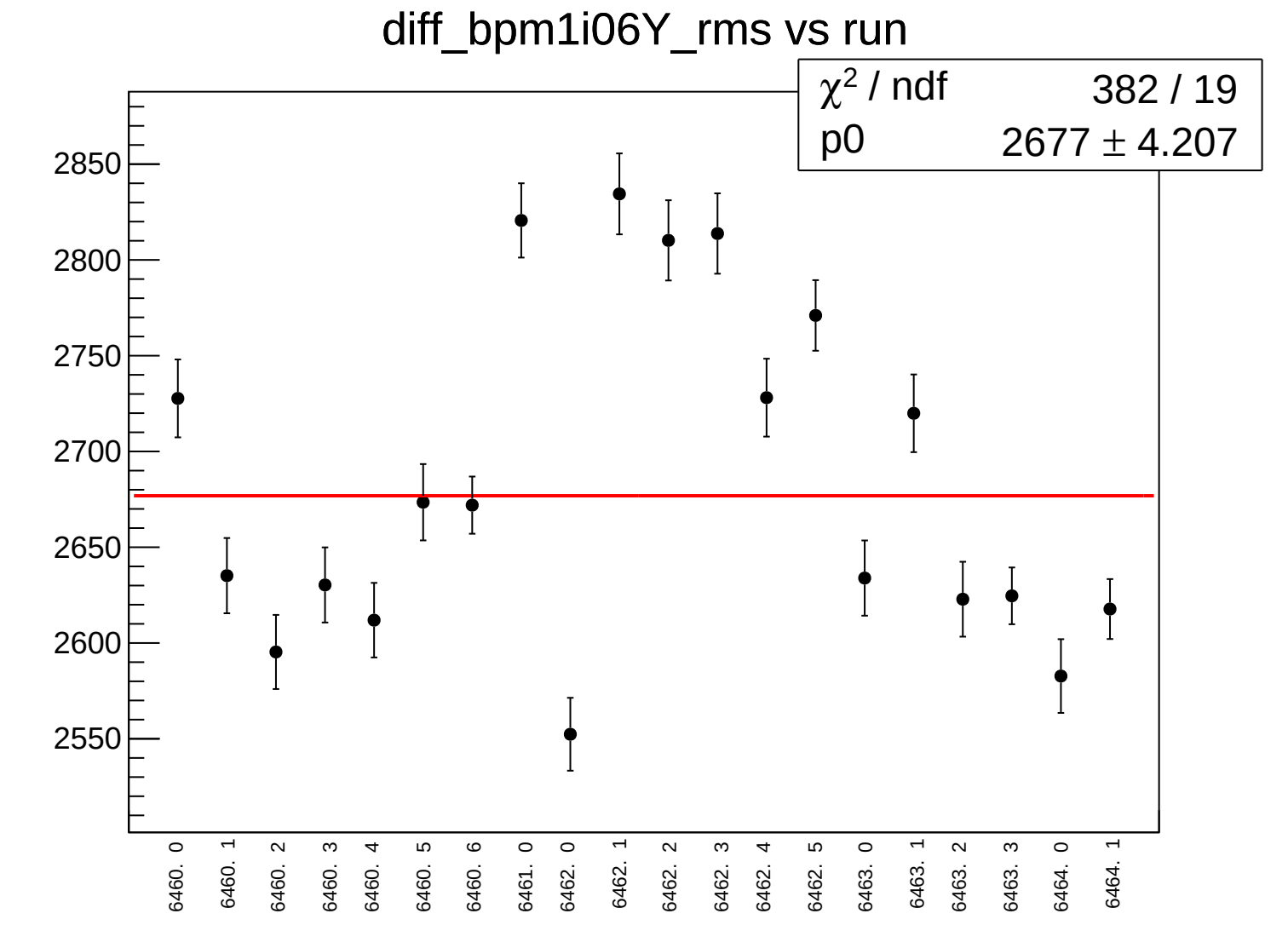

diff_bpm1i06X_mean vs run
χ² / ndf 11.86 / 19
p0 −31.67 ± 5.61
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −3.083
Std Dev 0
1.5
1
0.5
0
−0.5
−1

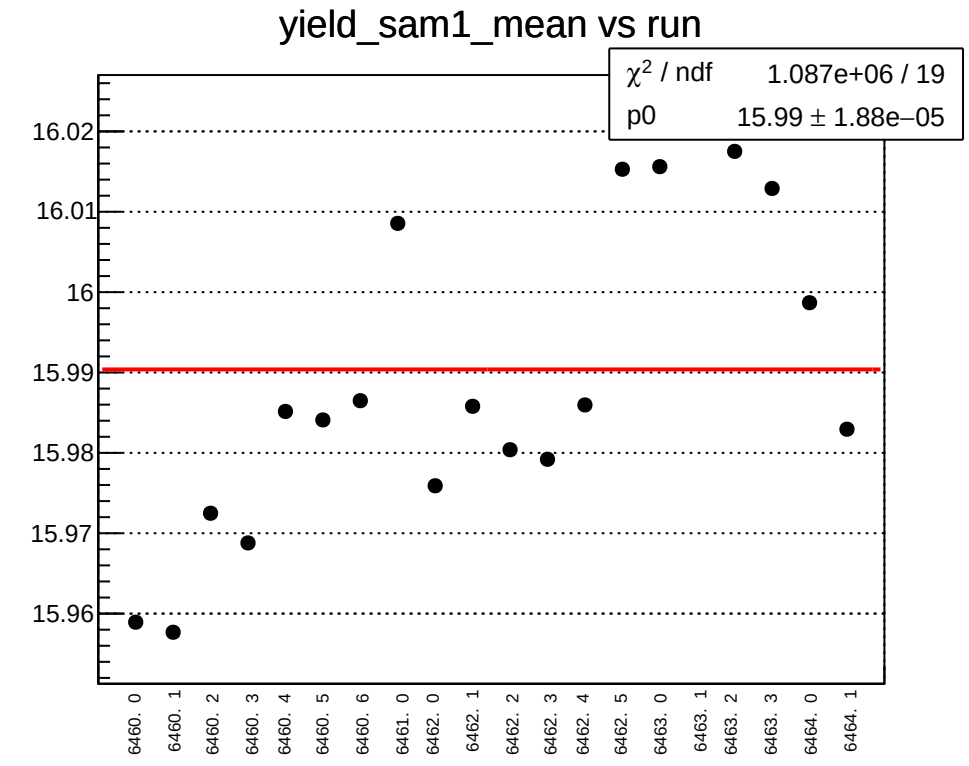

pull1D
Entries 20
Mean 0.03093
Std Dev 0.7694
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

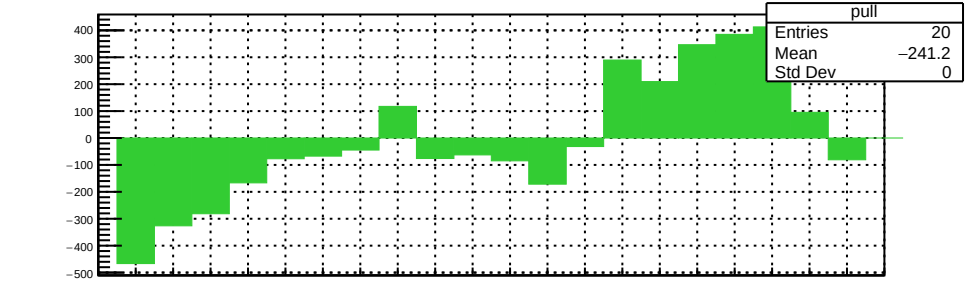

diff_bpm1i06X_rms vs run
χ^2 / ndf 367.4 / 19
p0 2524 ± 3.967
2700
2650
2600
2550
2500
2450
2400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

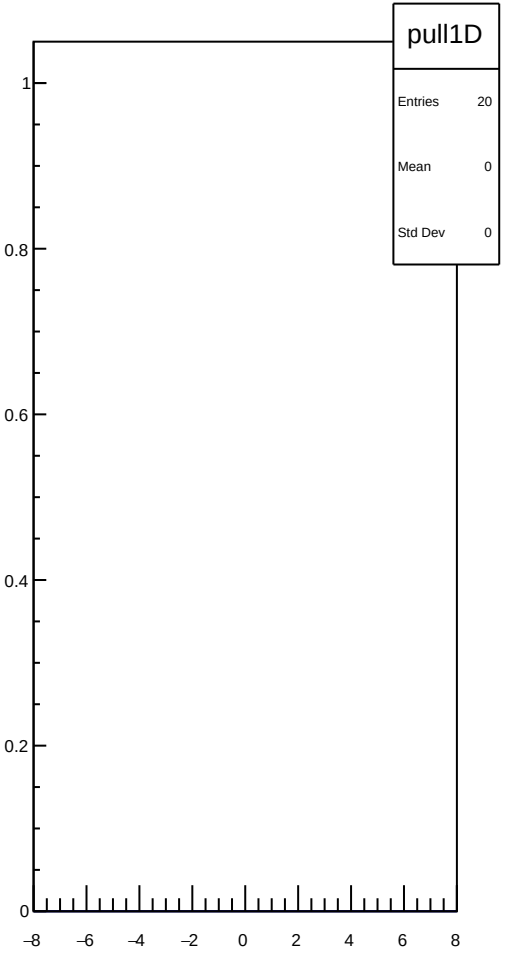

diff_bpm1i06Y_mean vs run
χ² / ndf 22.47 / 19
p0 −24.29 ± 5.95
60
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 11.09
Std Dev 4.271
1.5
1
0.5
0
−0.5
−1
−1.5

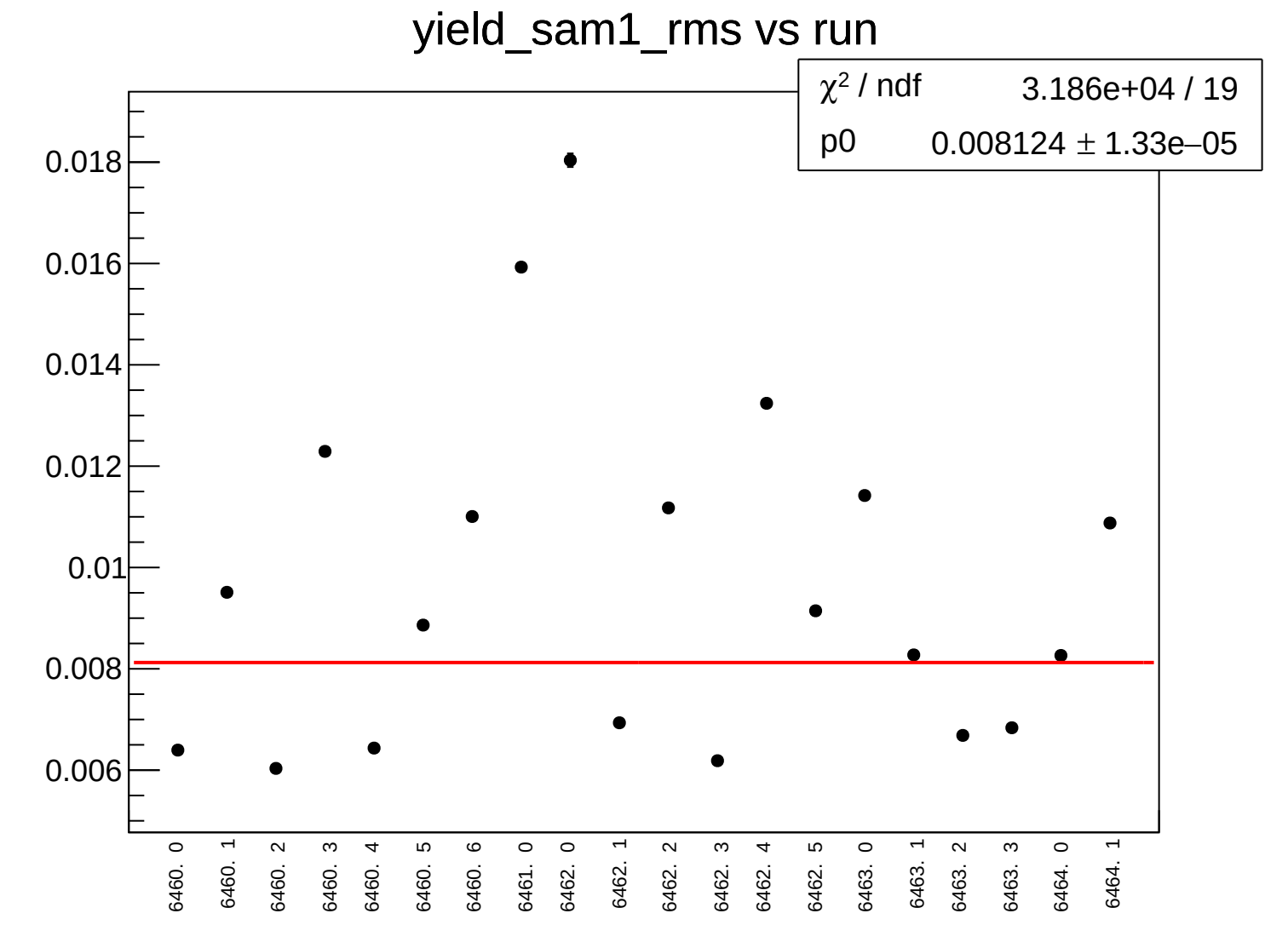

pull1D
Entries 20
Mean 0.0497
Std Dev 1.059
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

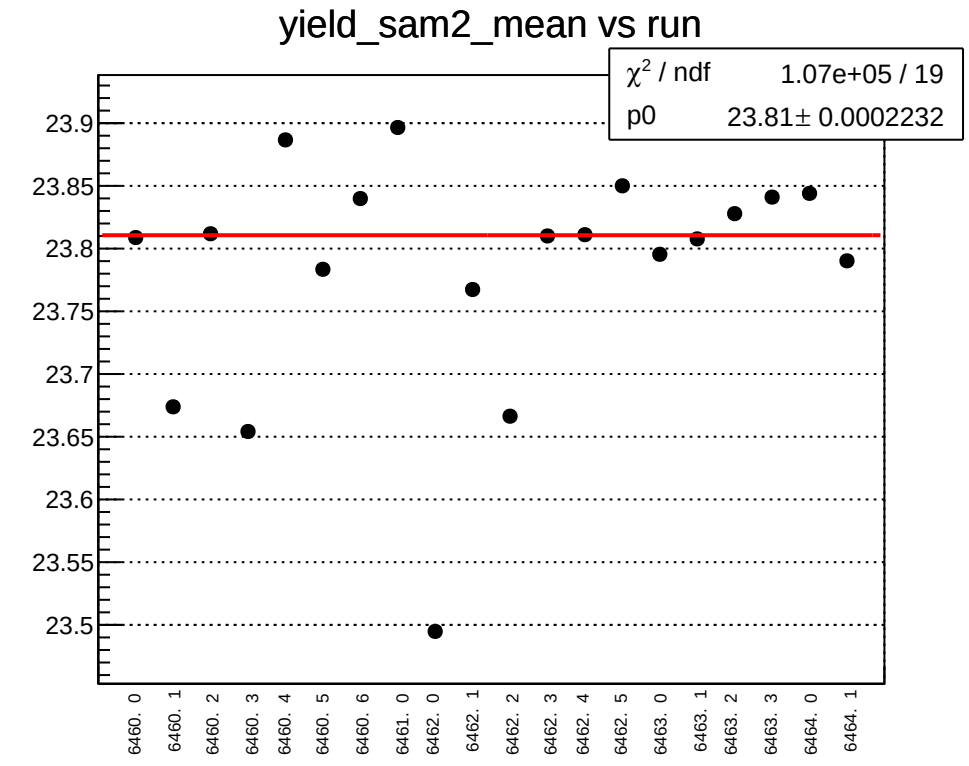

diff_bpm1i06Y_rms vs run
χ² / ndf 382 / 19
p0 2677 ± 4.207
2850
2800
2750
2700
2650
2600
2550
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

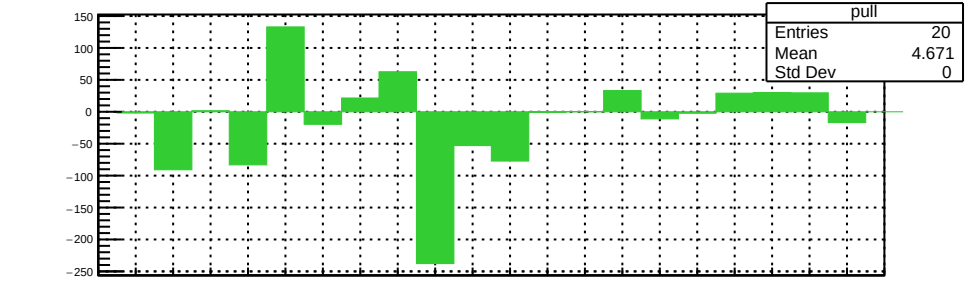

yield_sam1_mean vs run
χ² / ndf 1.087e+06 / 19
p0 15.99 ± 1.88e−05
16.02
16.01
16
15.99
15.98
15.97
15.96
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

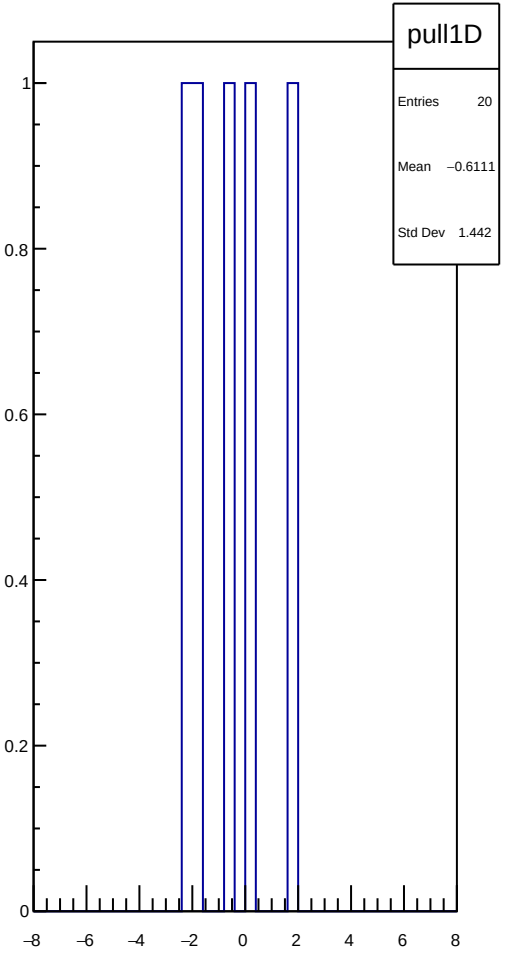

pull
Entries 20
Mean −241.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

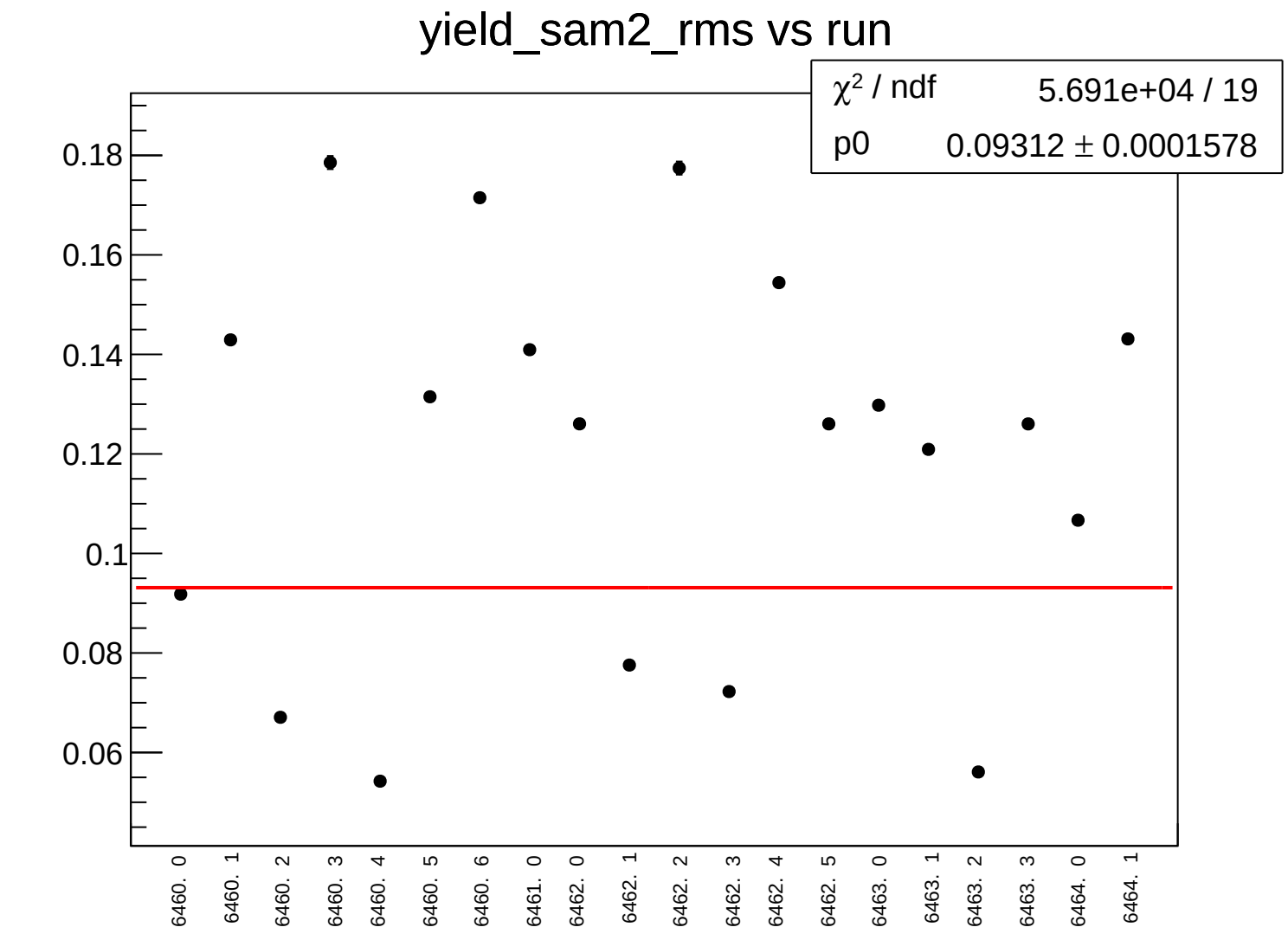

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

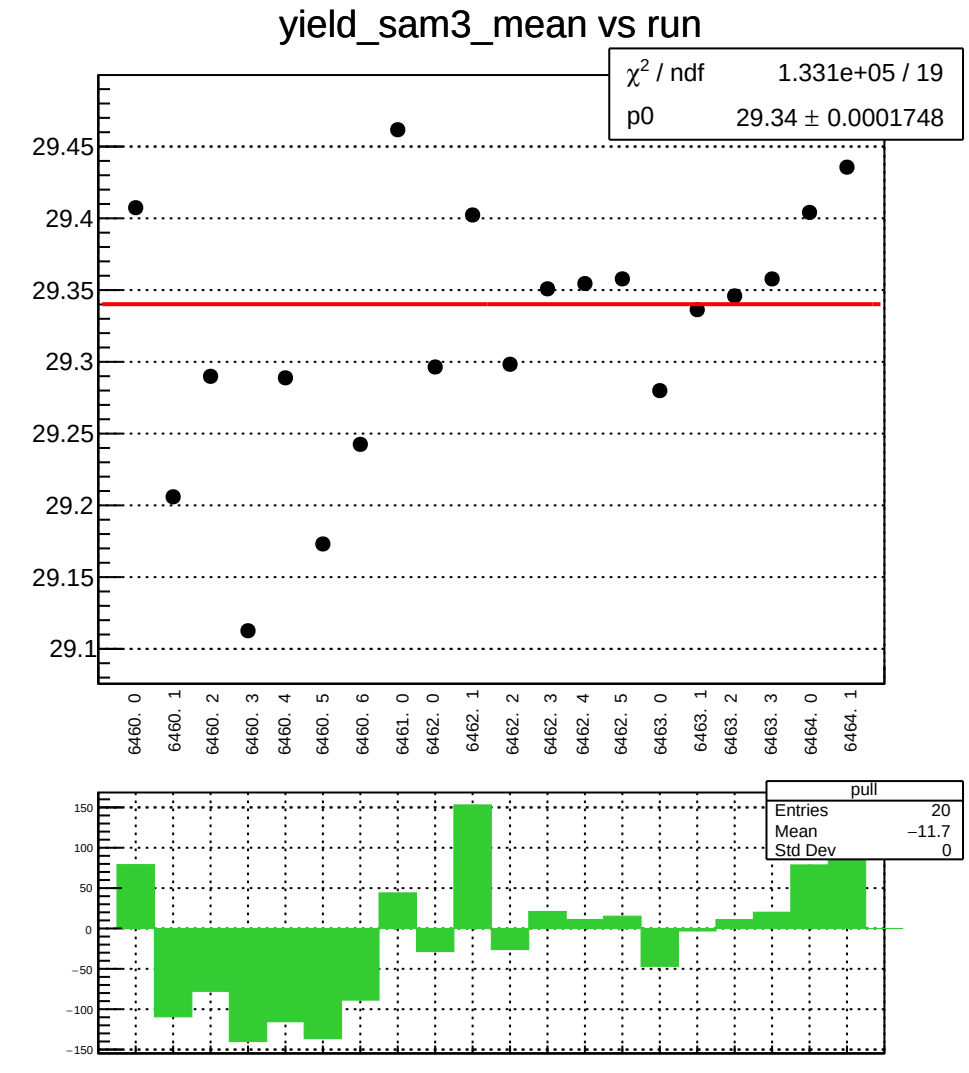

yield_sam1_rms vs run
χ² / ndf 3.186e+04 / 19
p0 0.008124 ± 1.33e−05
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

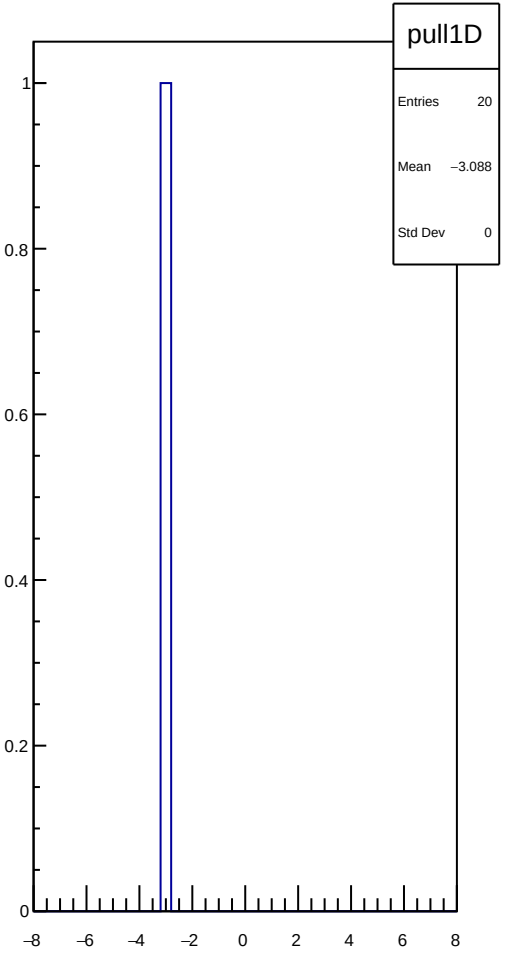

yield_sam2_mean vs run
χ² / ndf 1.07e+05 / 19
p0 23.81± 0.0002232
23.9
23.85
23.8
23.75
23.7
23.65
23.6
23.55
23.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

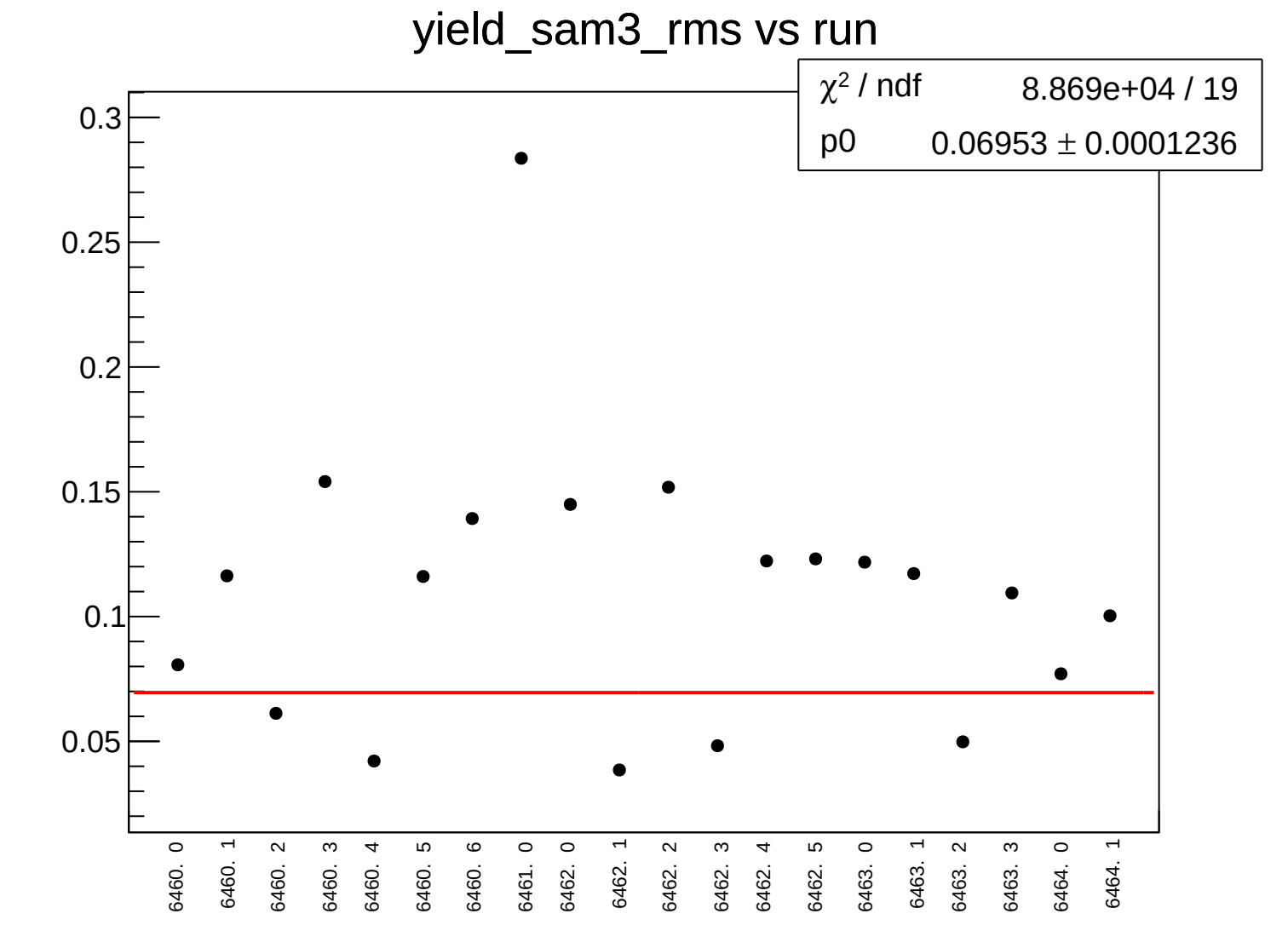

pull
Entries 20
Mean 4.671
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

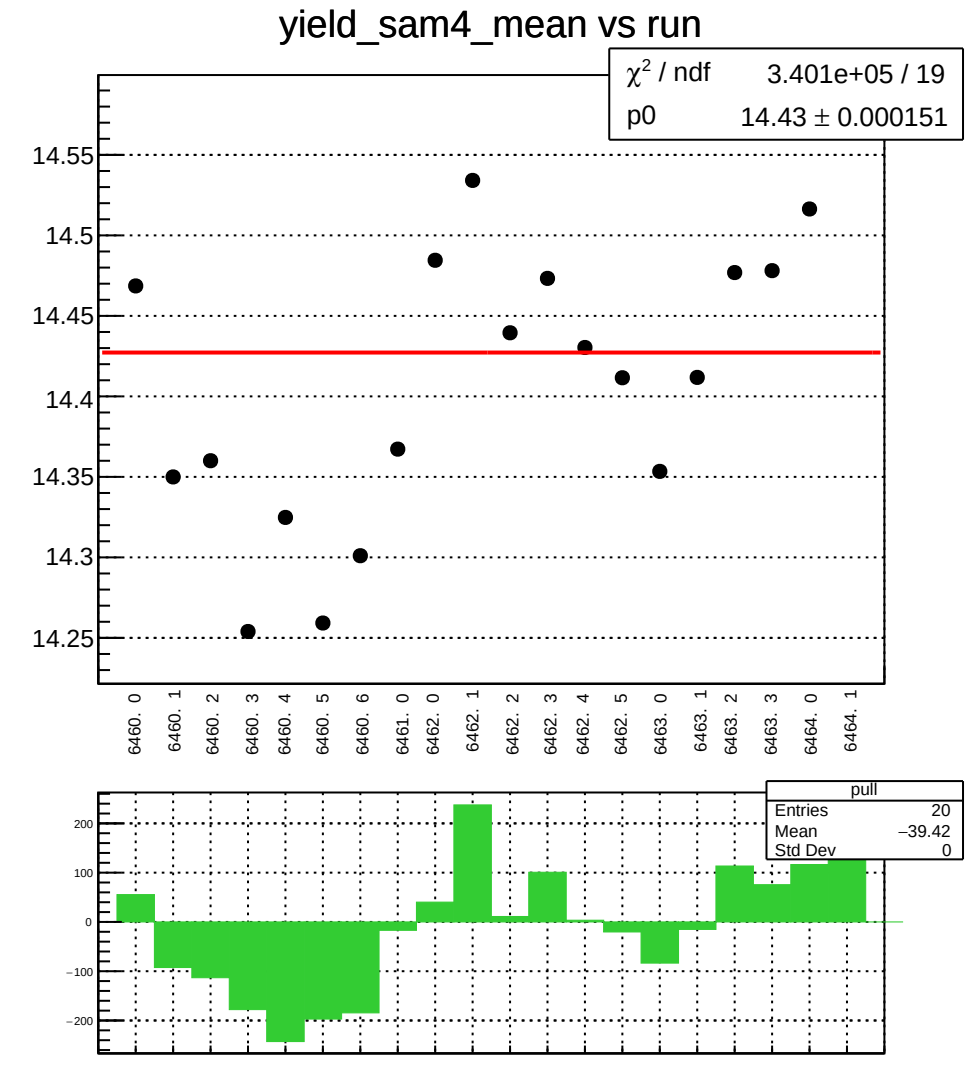

pull1D
Entries 20
Mean −0.6111
Std Dev 1.442
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

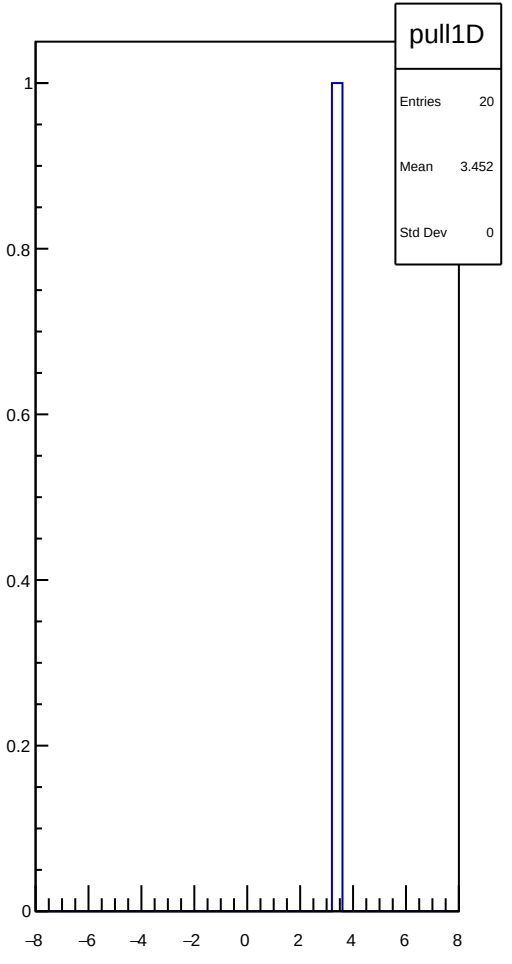

yield_sam2_rms vs run
χ² / ndf 5.691e+04 / 19
p0 0.09312 ± 0.0001578
0.18
0.16
0.14
0.12
0.1
0.08
0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

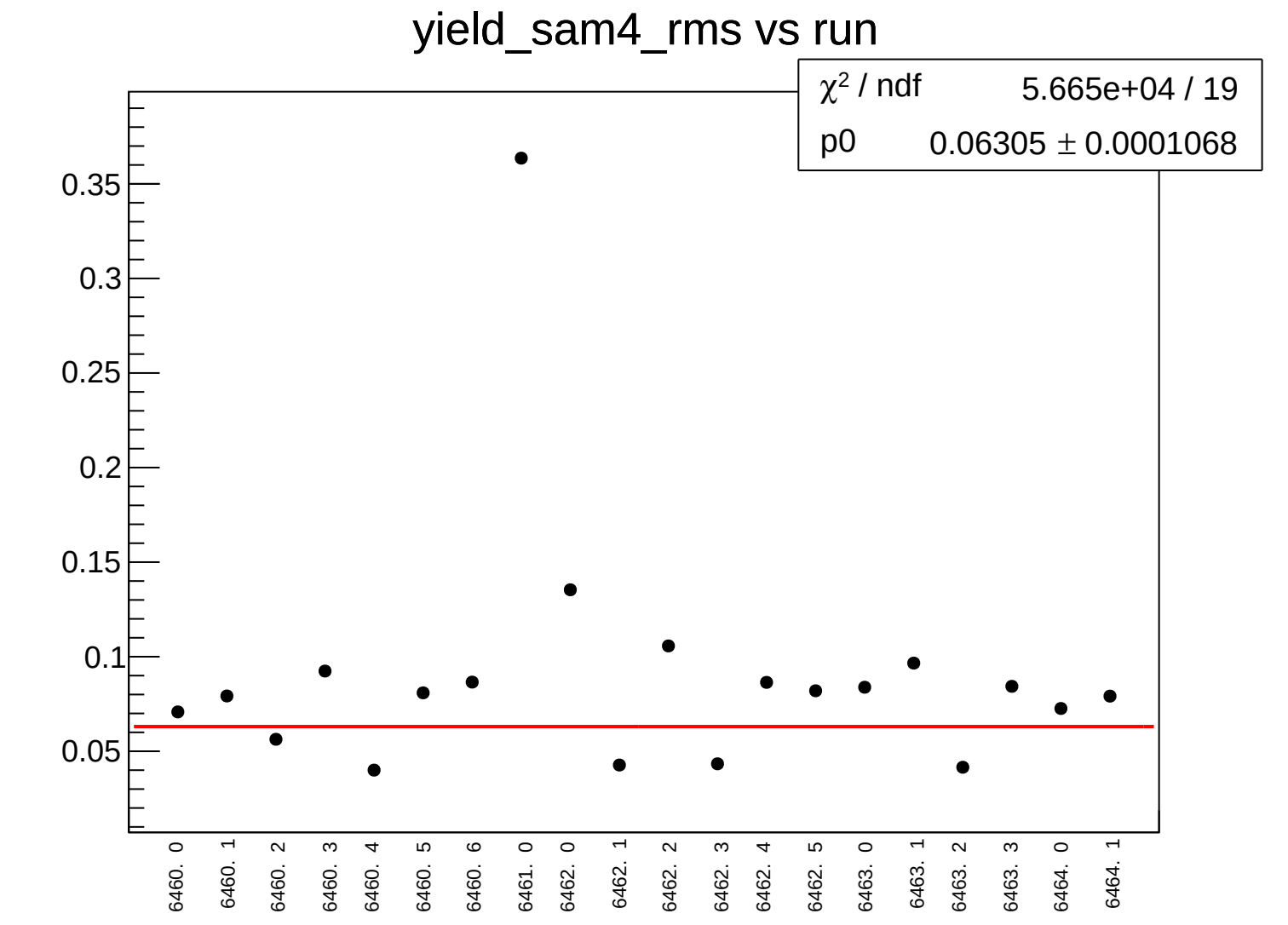

yield_sam3_mean vs run
χ² / ndf 1.331e+05 / 19
p0 29.34 ± 0.0001748
29.45
29.4
29.35
29.3
29.25
29.2
29.15
29.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −11.7
Std Dev 0
150
100
50
0
−50
−100
−150

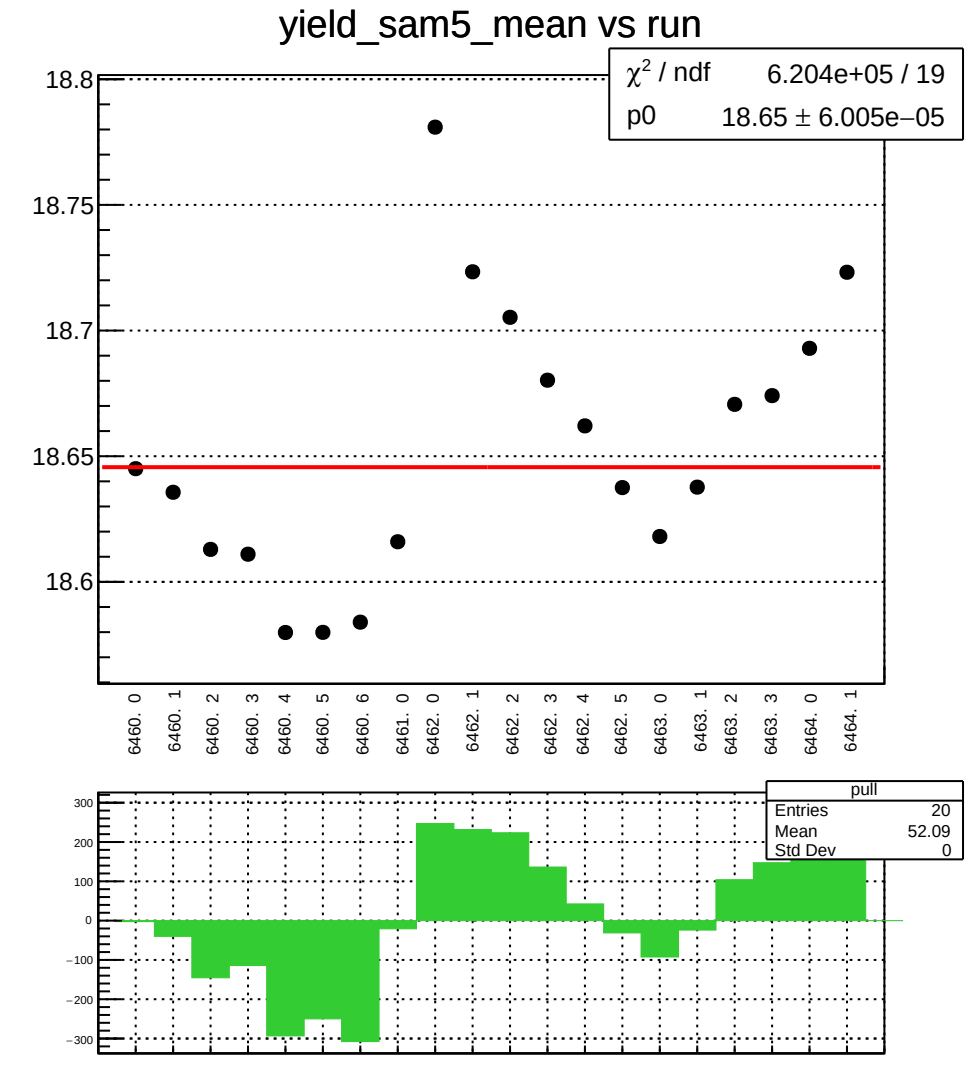

pull1D
Entries 20
Mean −3.088
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

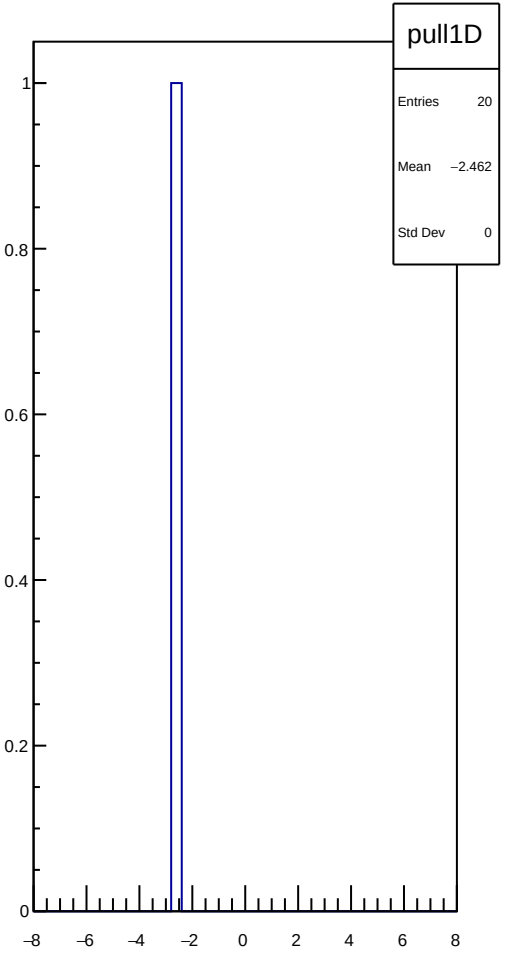

yield_sam3_rms vs run
χ² / ndf 8.869e+04 / 19
p0 0.06953 ± 0.0001236
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

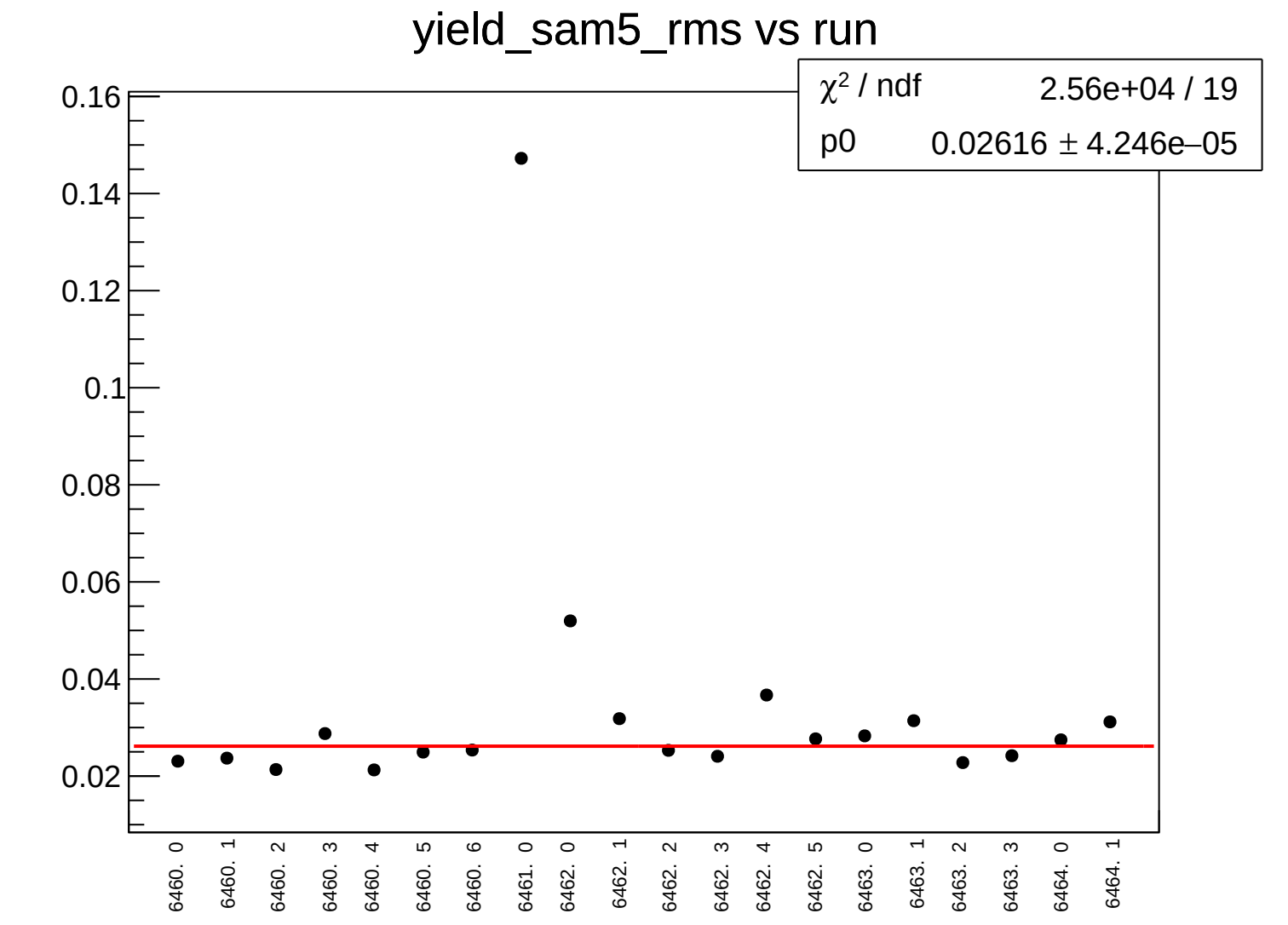

yield_sam4_mean vs run
χ² / ndf 3.401e+05 / 19
p0 14.43 ± 0.000151
14.55
14.5
14.45
14.4
14.35
14.3
14.25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −39.42
Std Dev 0
200
100
0
−100
−200

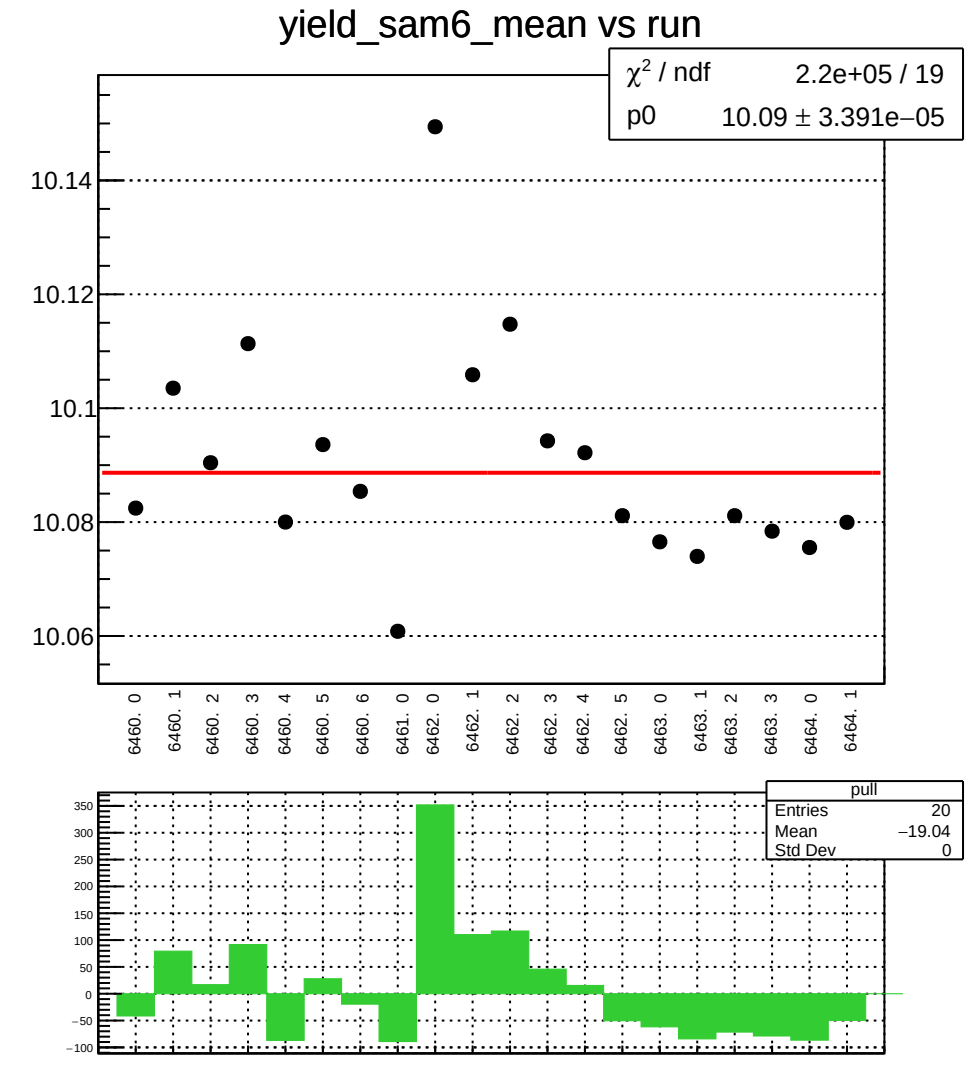

pull1D
Entries 20
Mean 3.452
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

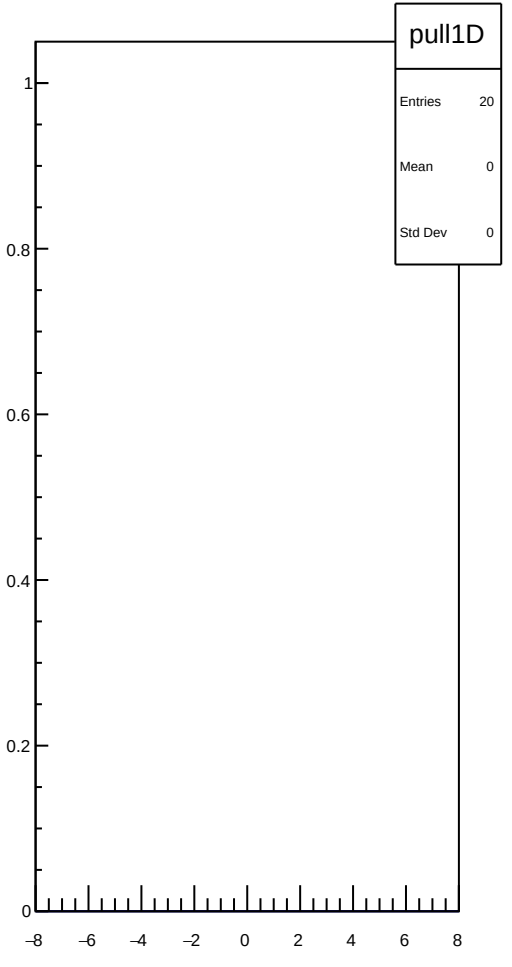

yield_sam4_rms vs run
χ² / ndf 5.665e+04 / 19
p0 0.06305 ± 0.0001068
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

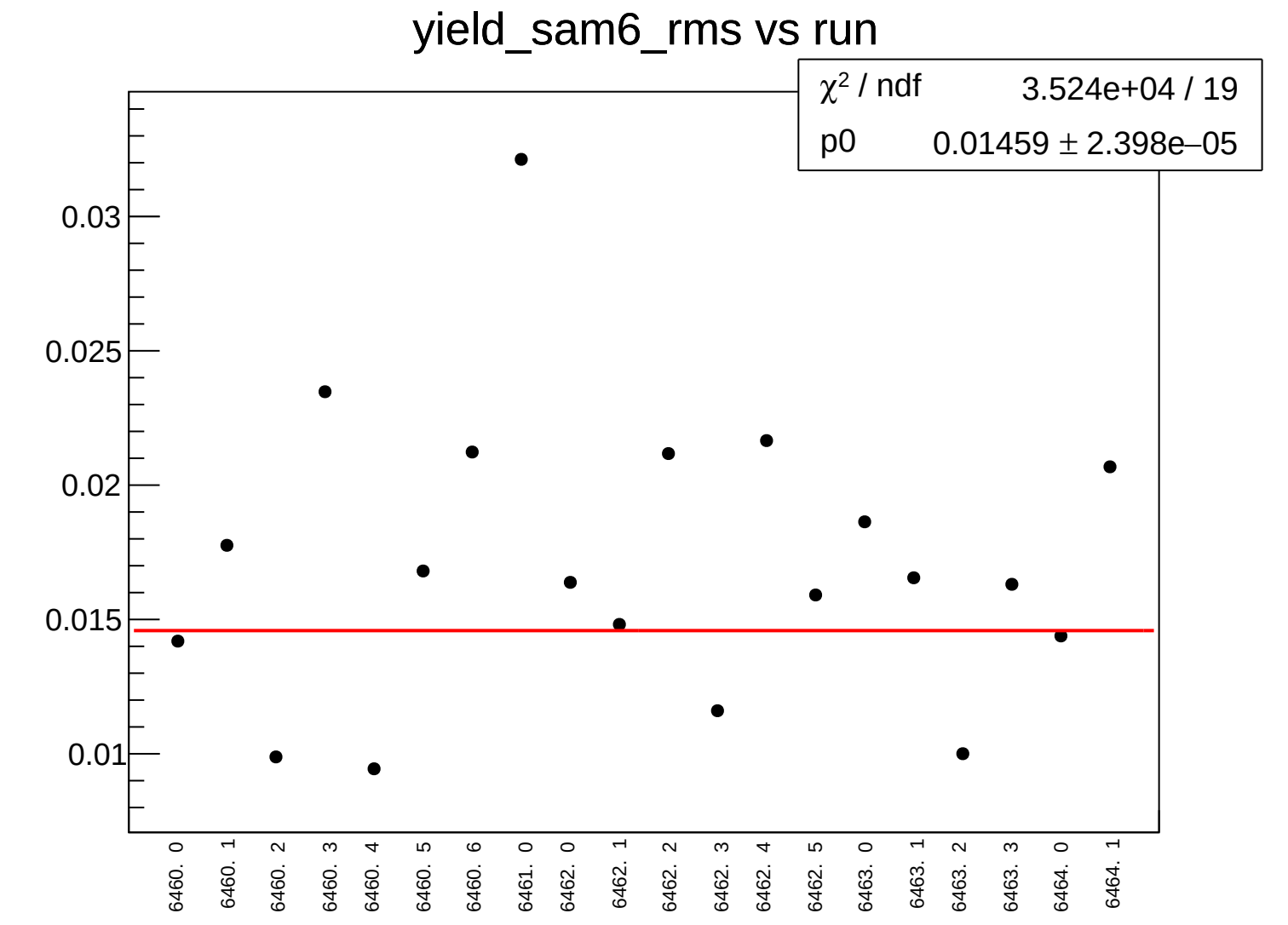

yield_sam5_mean vs run
χ² / ndf 6.204e+05 / 19
p0 18.65 ± 6.005e−05
18.8
18.75
18.7
18.65
18.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 52.09
Std Dev 0
300
200
100
0
−100
−200
−300

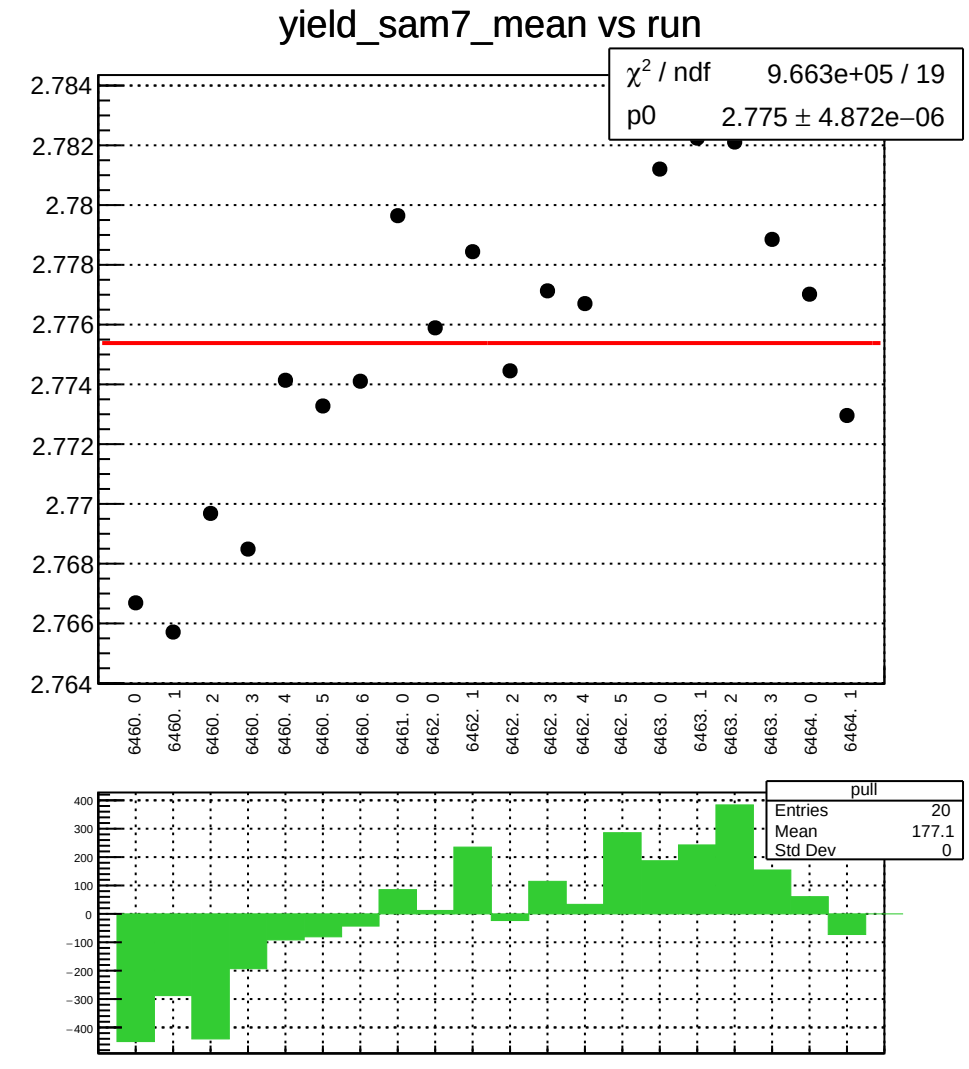

pull1D
Entries 20
Mean −2.462
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

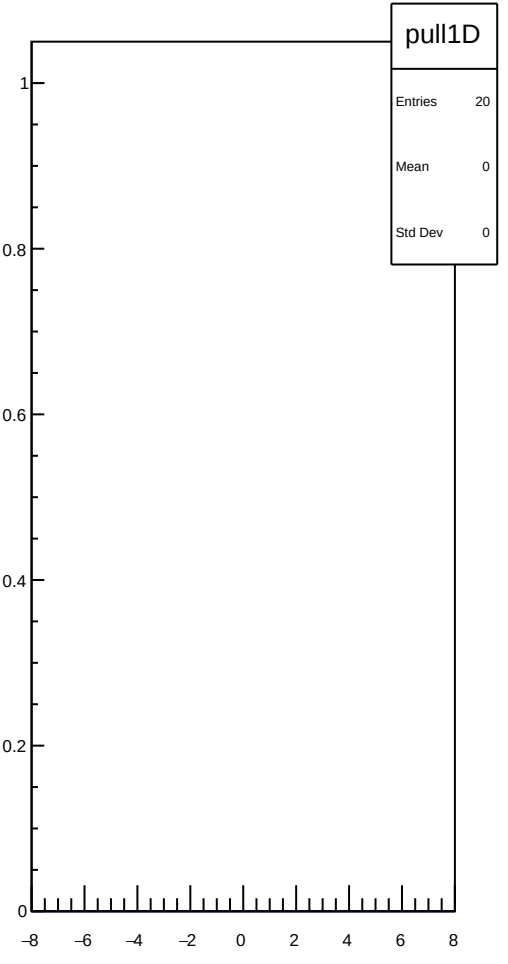

yield_sam5_rms vs run
χ² / ndf 2.56e+04 / 19
p0 0.02616 ± 4.246e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

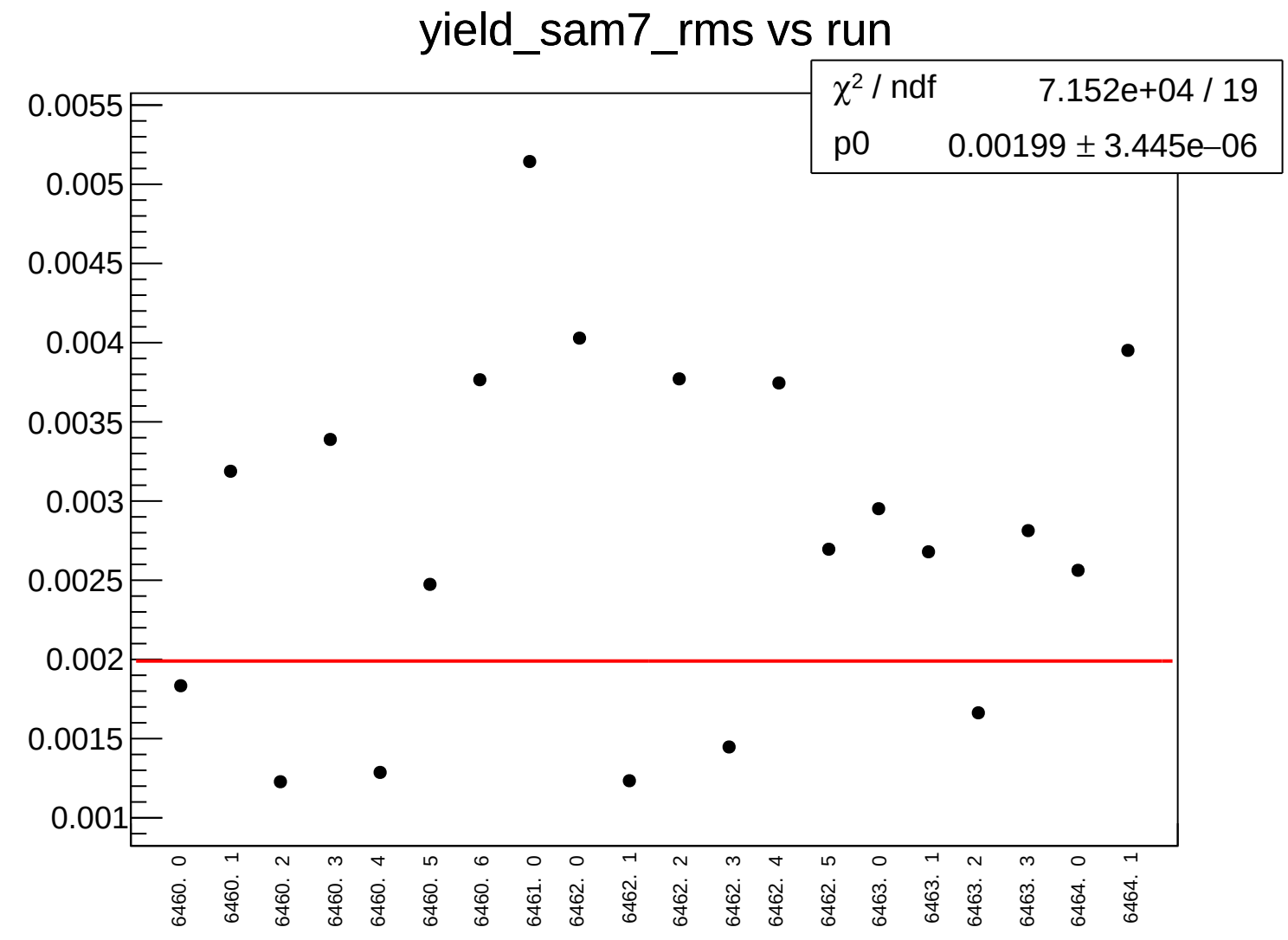

yield_sam6_mean vs run
χ² / ndf 2.2e+05 / 19
p0 10.09 ± 3.391e−05
10.14
10.12
10.1
10.08
10.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −19.04
Std Dev 0
350
300
250
200
150
100
50
0
−50
−100

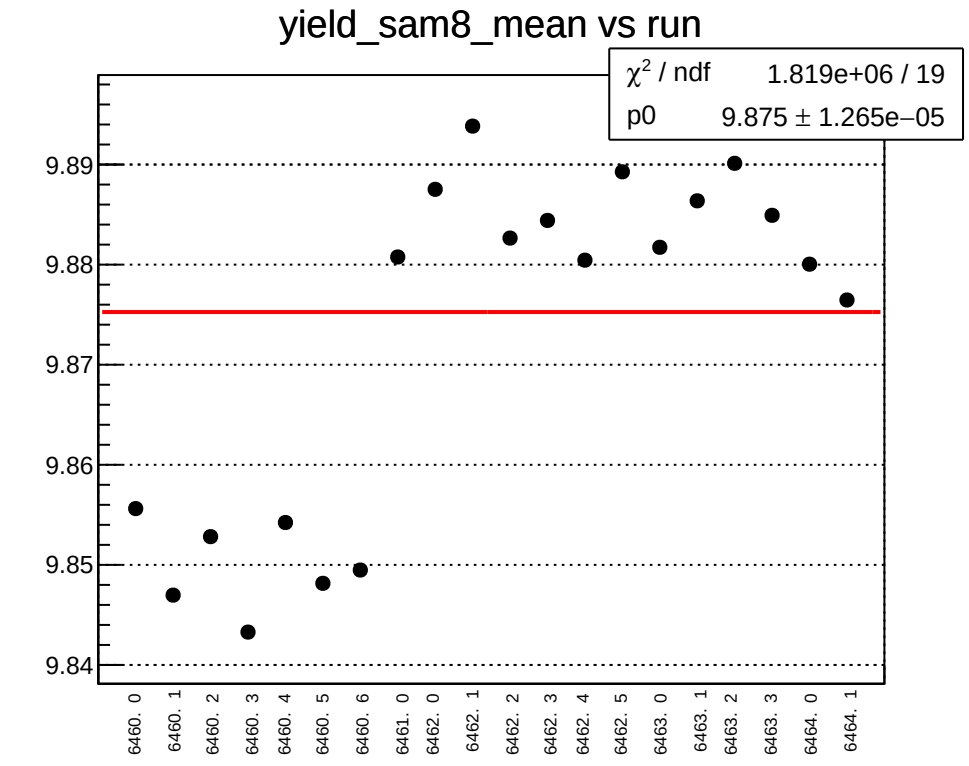

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

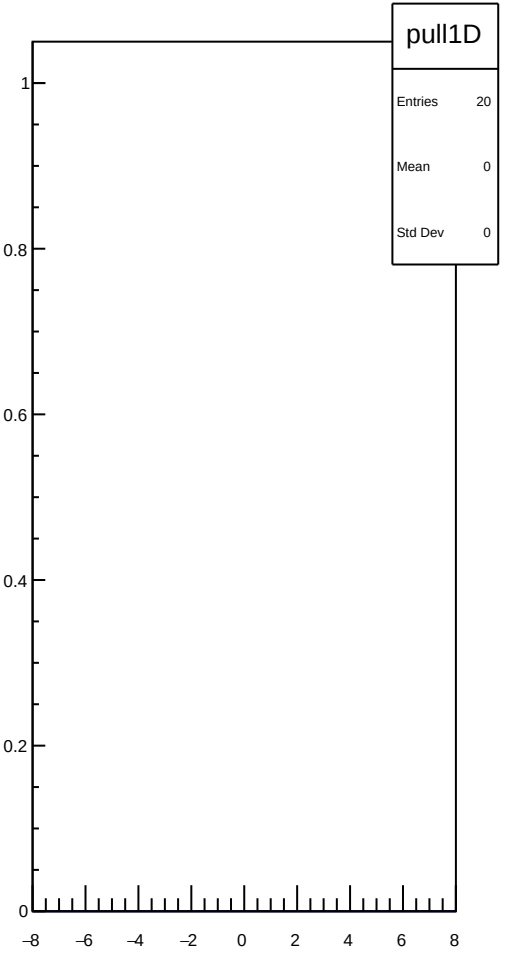

yield_sam6_rms vs run
χ² / ndf 3.524e+04 / 19
p0 0.01459 ± 2.398e–05
0.03
0.025
0.02
0.015
0.01
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

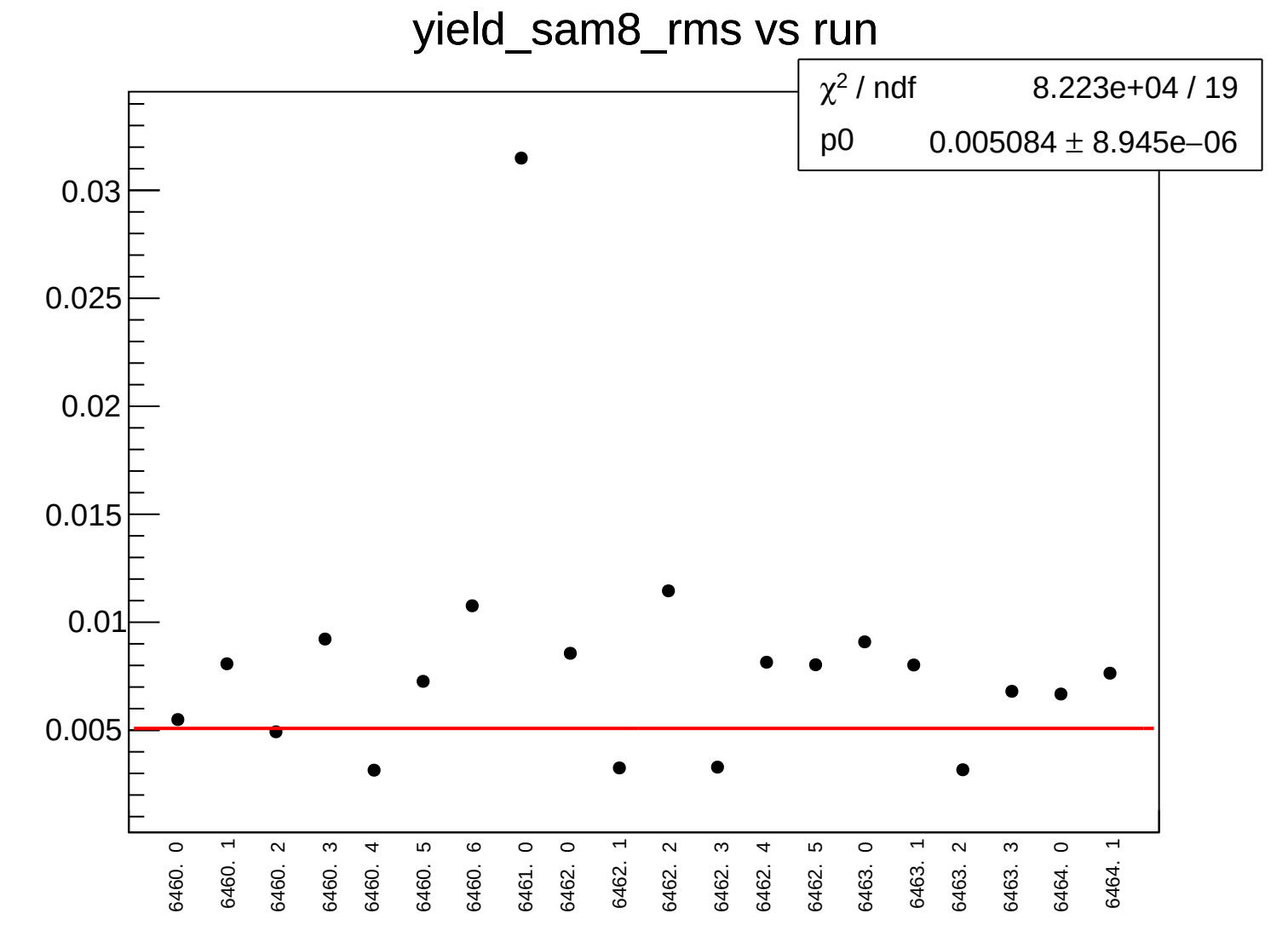

yield_sam7_mean vs run
χ² / ndf 9.663e+05 / 19
p0 2.775 ± 4.872e−06
2.784
2.782
2.78
2.778
2.776
2.774
2.772
2.77
2.768
2.766
2.764
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 177.1
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

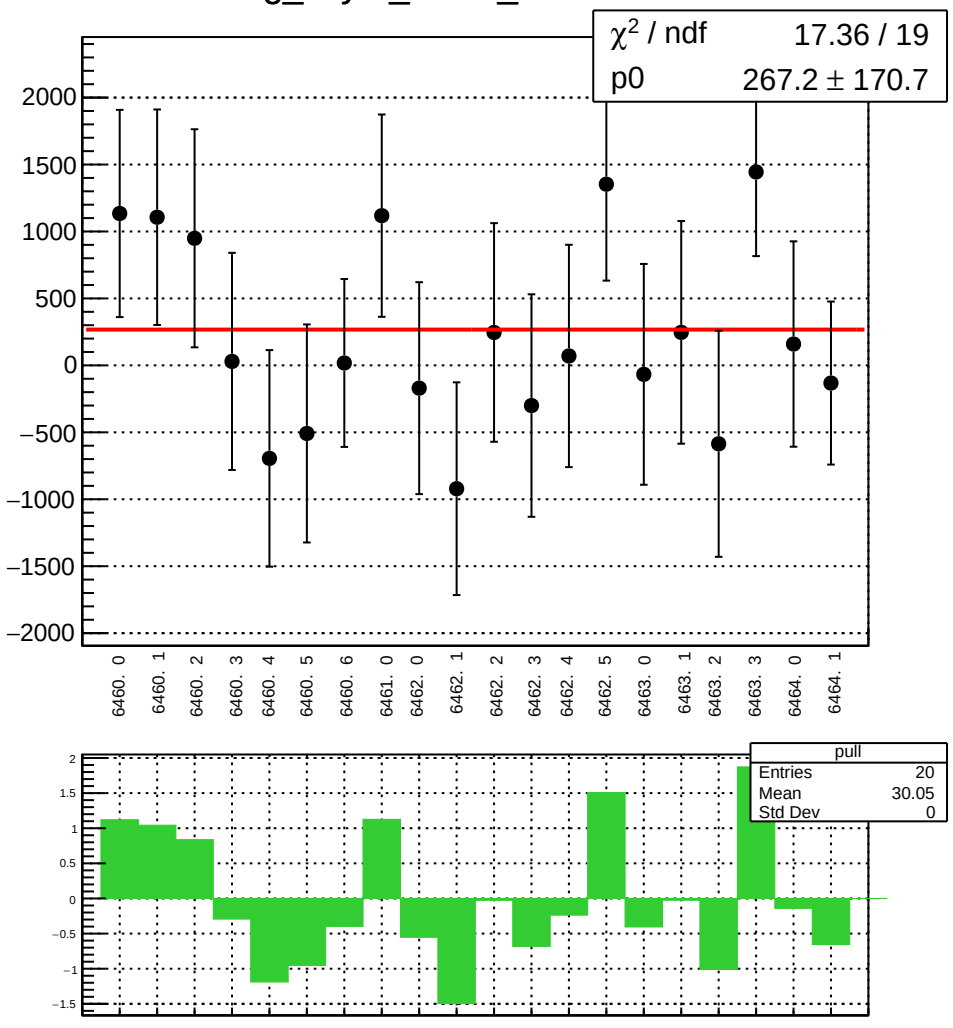

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

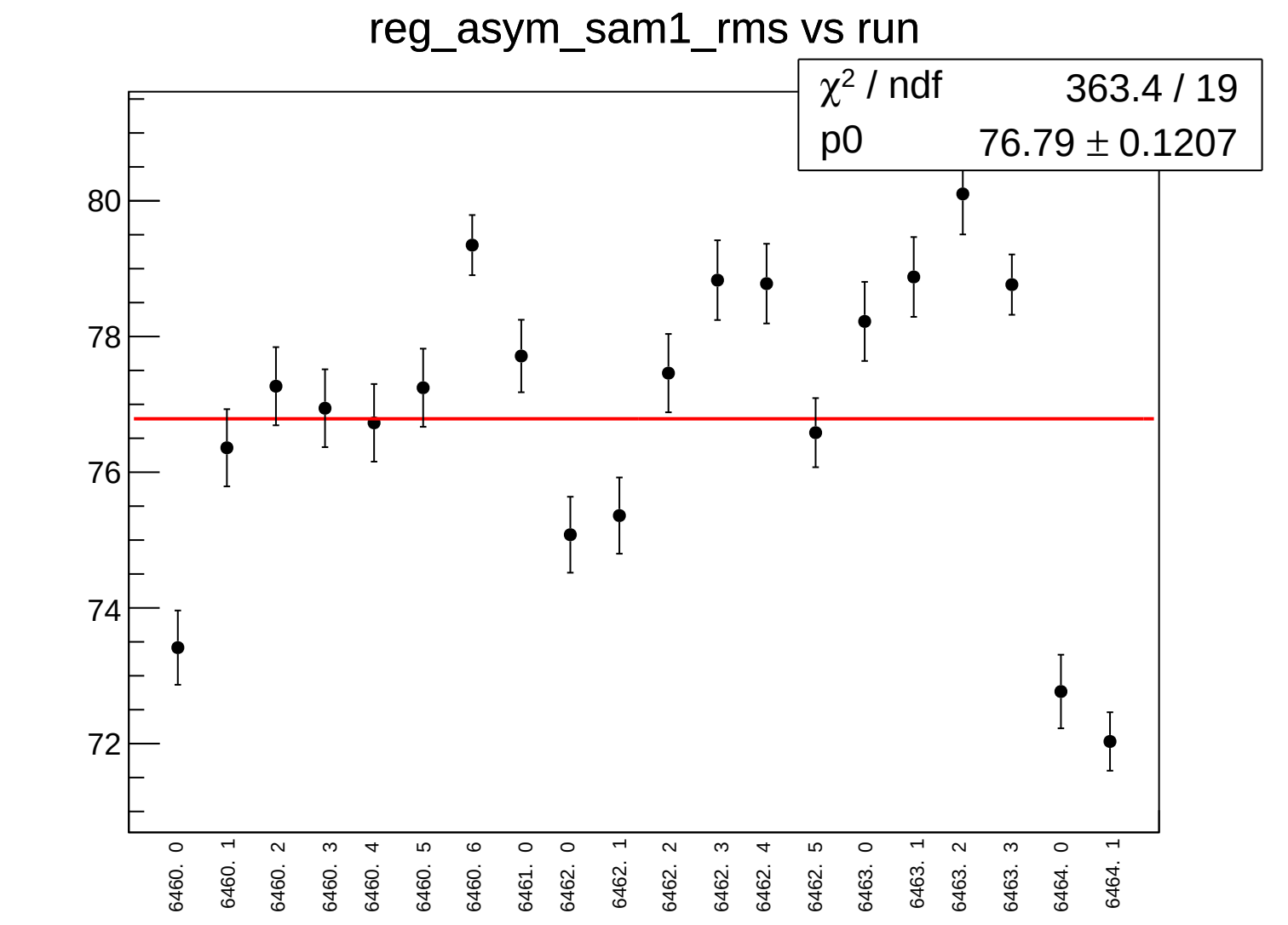

yield_sam7_rms vs run
χ² / ndf 7.152e+04 / 19
p0 0.00199 ± 3.445e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

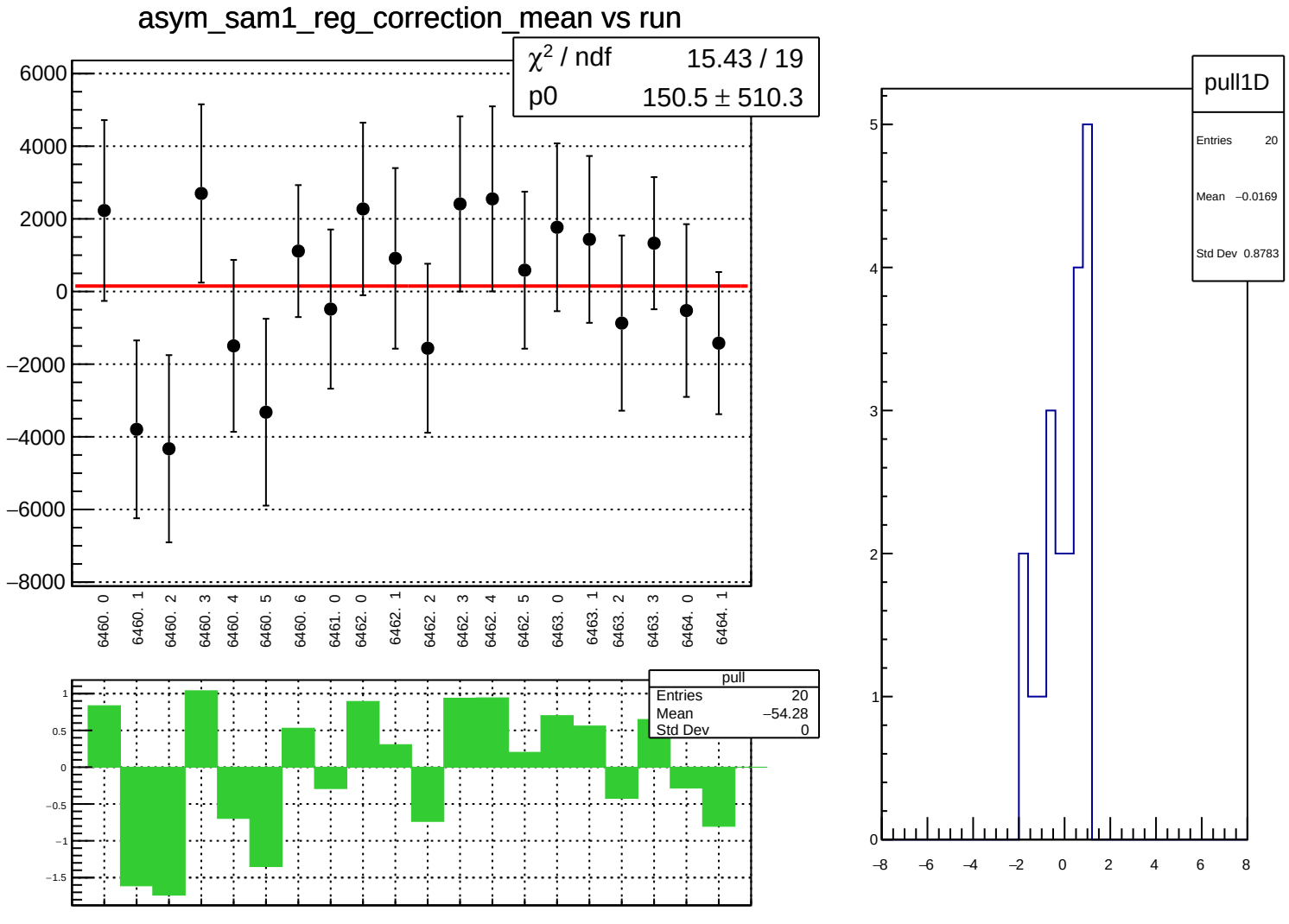

yield_sam8_mean vs run
χ² / ndf 1.819e+06 / 19
p0 9.875 ± 1.265e−05
9.89
9.88
9.87
9.86
9.85
9.84
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −34.25
Std Dev 0
600
400
200
0
−200
−400
−600

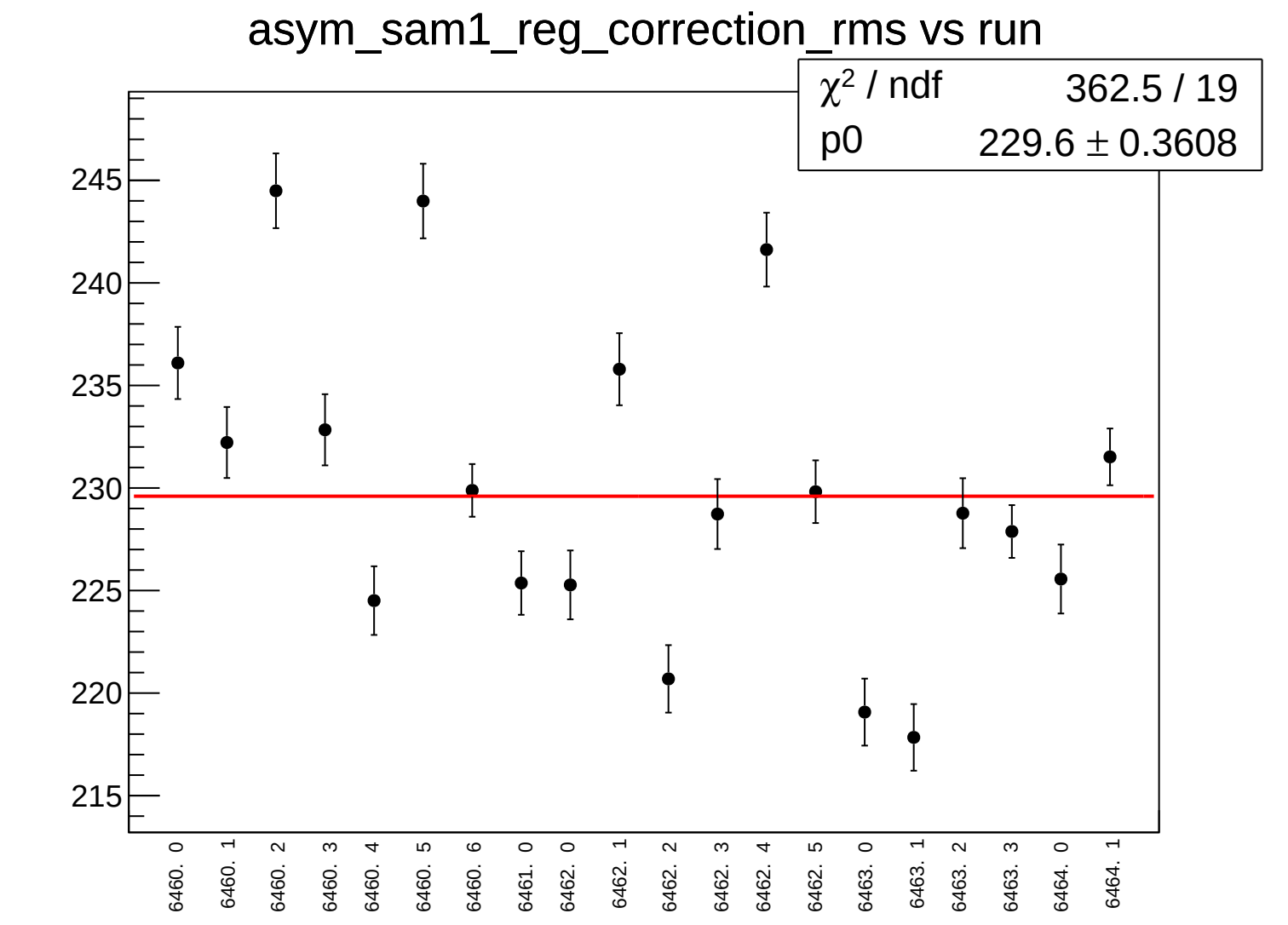

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

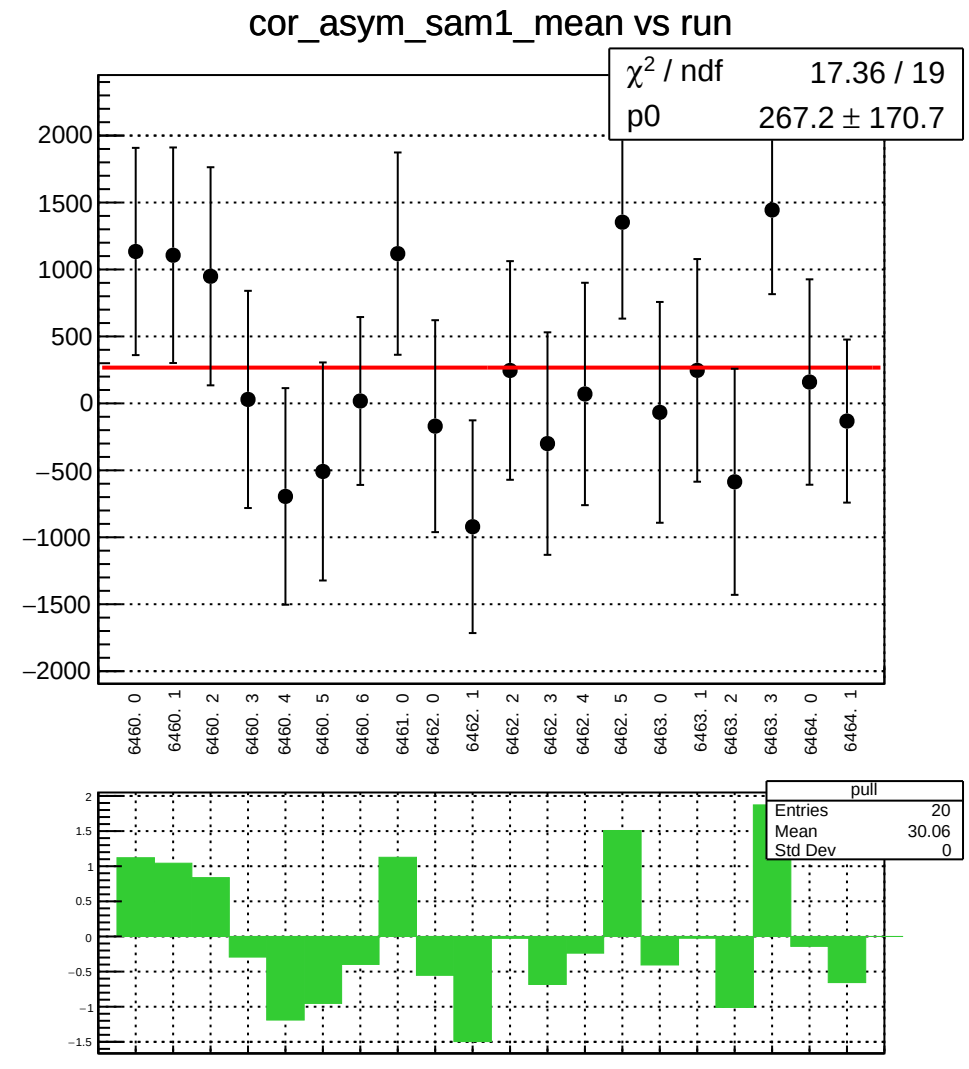

yield_sam8_rms vs run
χ² / ndf 8.223e+04 / 19
p0 0.005084 ± 8.945e−06
0.03
0.025
0.02
0.015
0.01
0.005
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

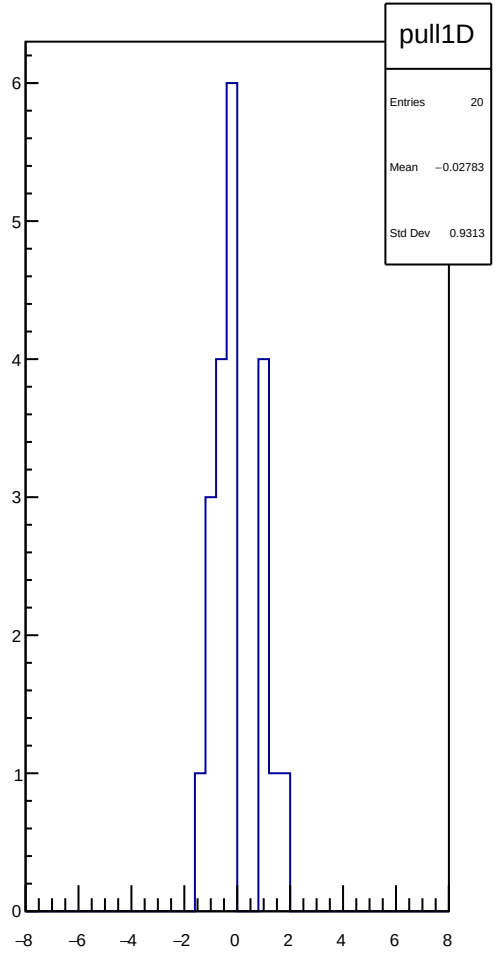

reg_asym_sam1_mean vs run
χ² / ndf 17.36 / 19
p0 267.2 ± 170.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02783
Std Dev 0.9314
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

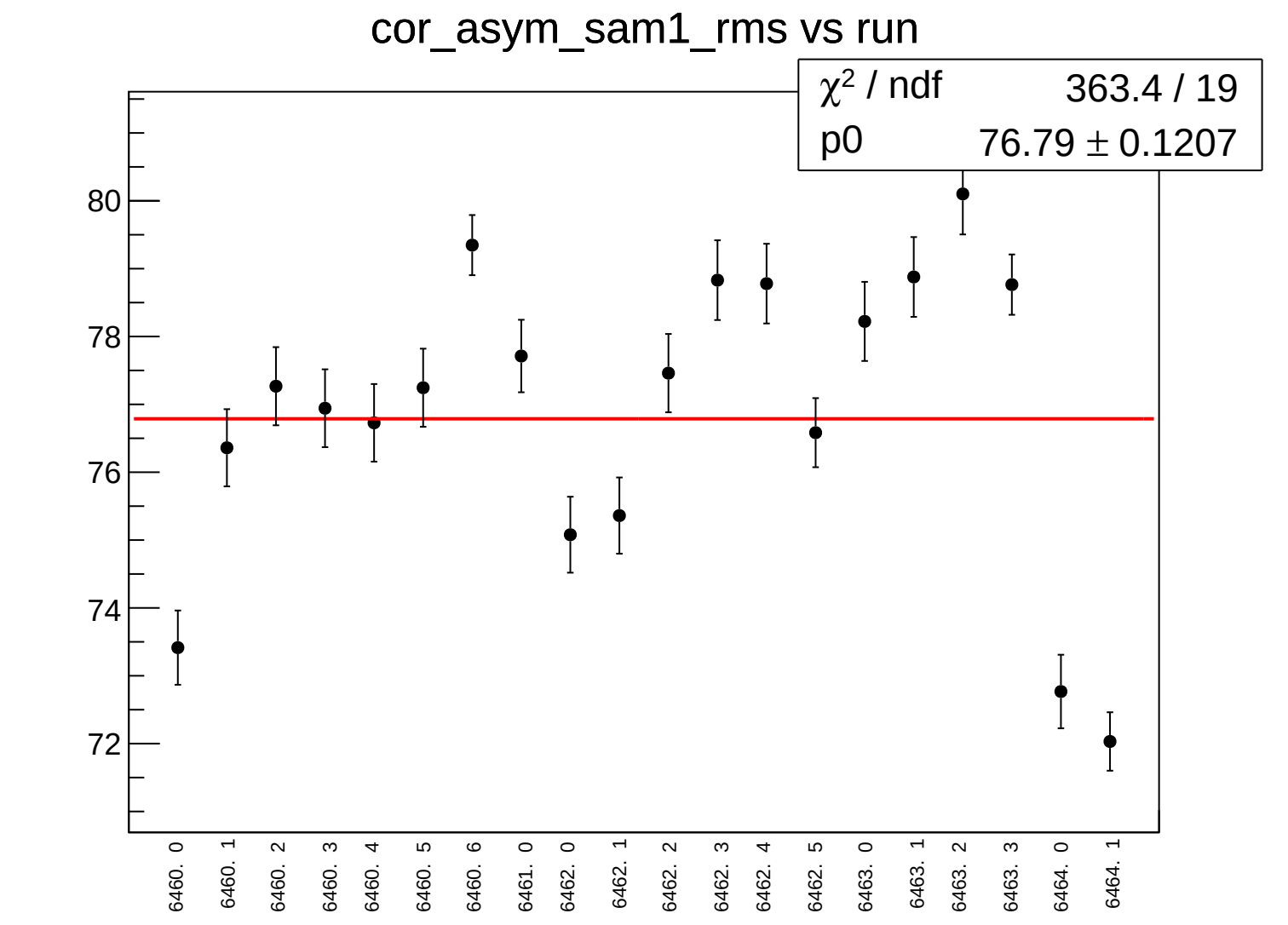

reg_asym_sam1_rms vs run
χ² / ndf 363.4 / 19
p0 76.79 ± 0.1207
80
78
76
74
72
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

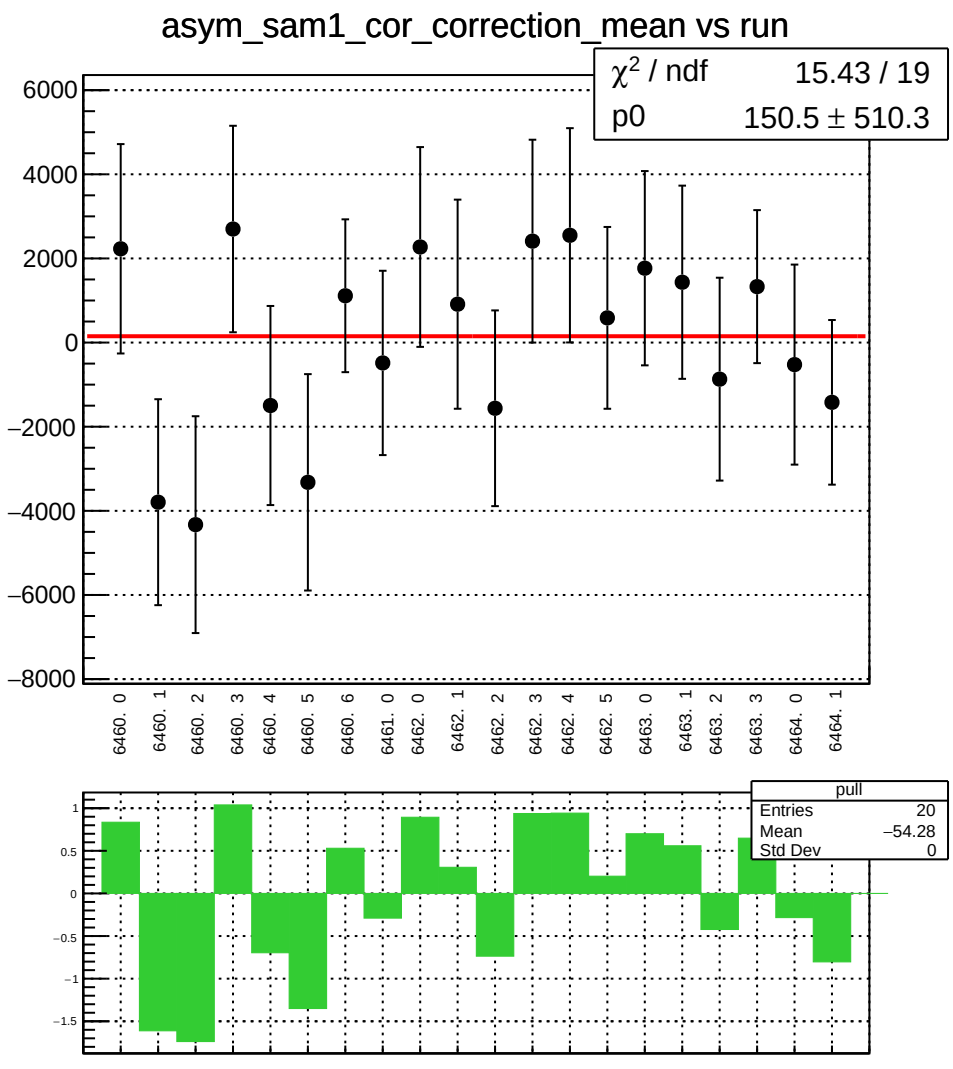

asym_sam1_reg_correction_mean vs run
χ² / ndf 15.43 / 19
p0 150.5 ± 510.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −54.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0169
Std Dev 0.8783
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

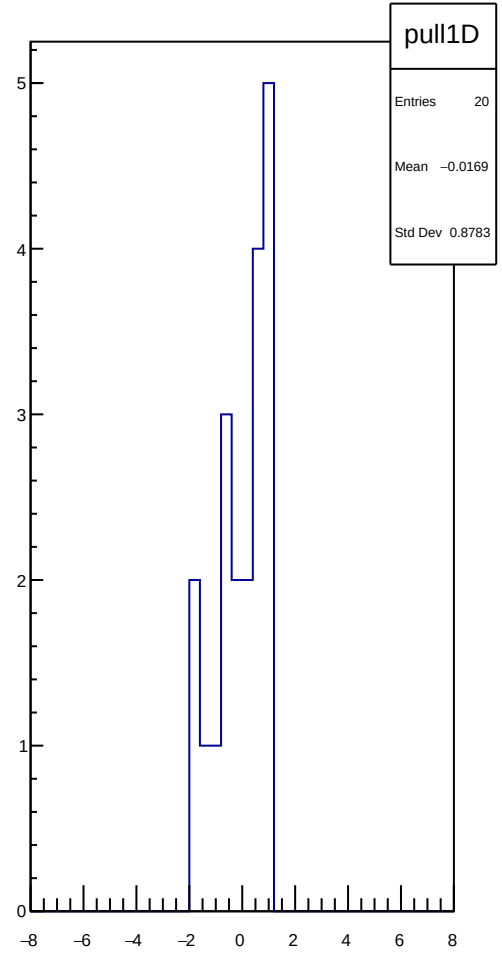

asym_sam1_reg_correction_rms vs run
χ² / ndf 362.5 / 19
p0 229.6 ± 0.3608
245
240
235
230
225
220
215
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

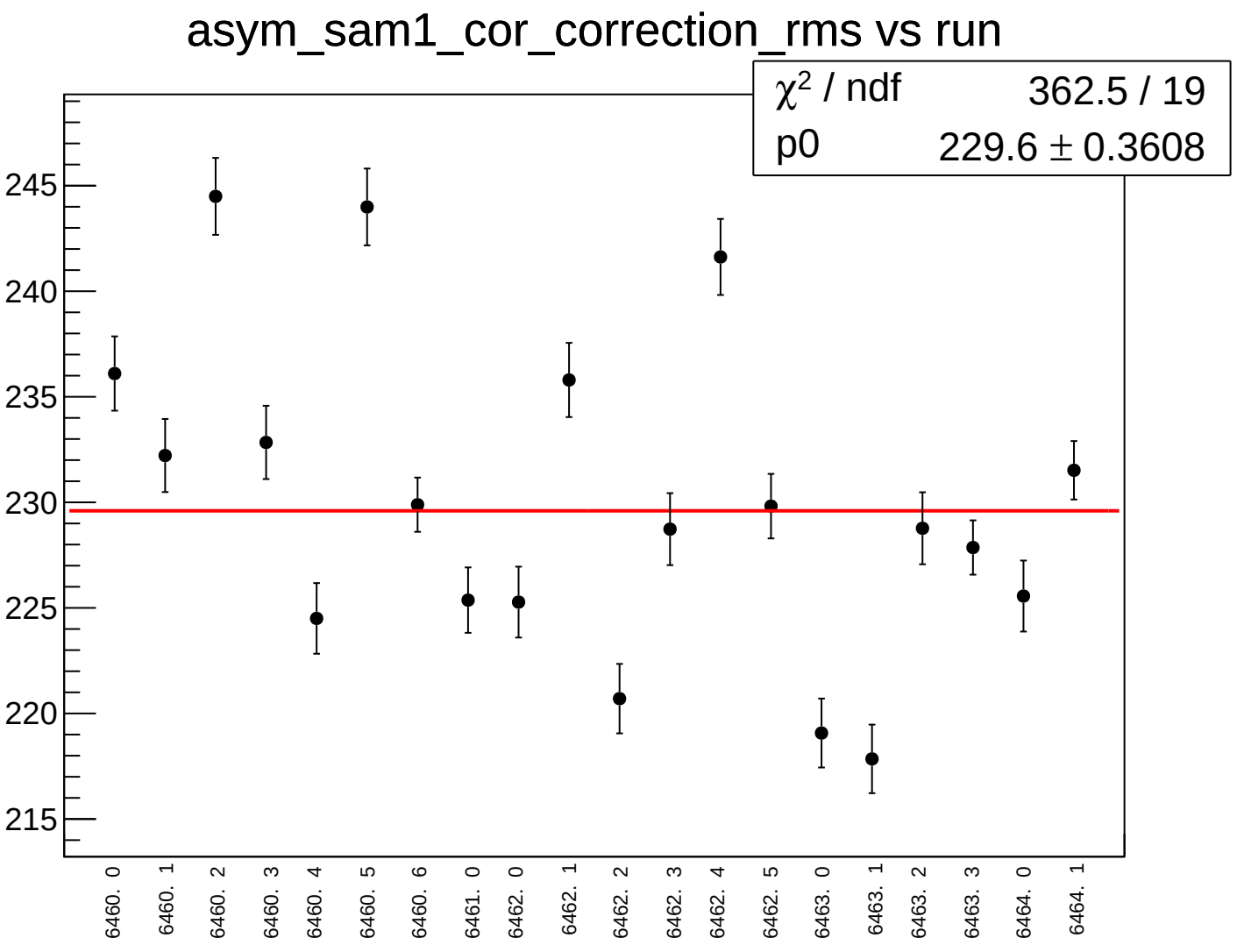

cor_asym_sam1_mean vs run
χ² / ndf 17.36 / 19
p0 267.2 ± 170.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

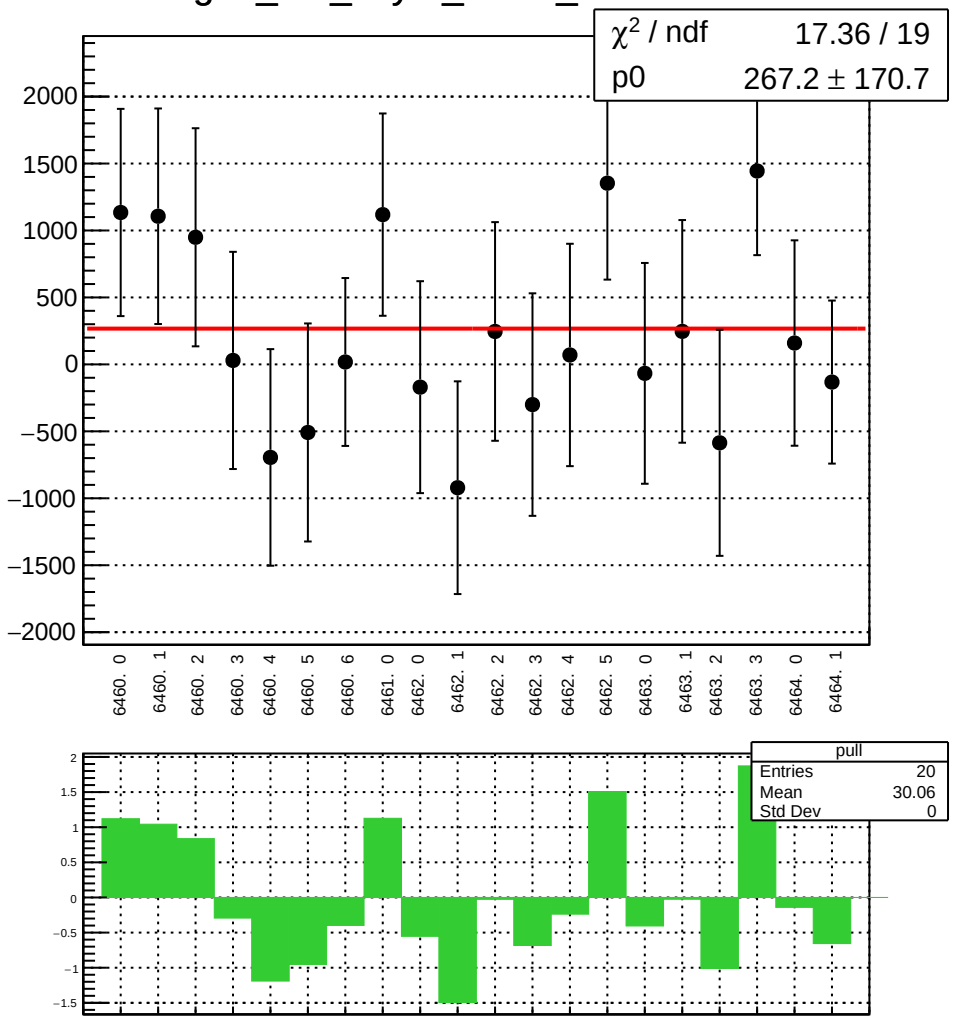

pull1D
Entries 20
Mean −0.02783
Std Dev 0.9313
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

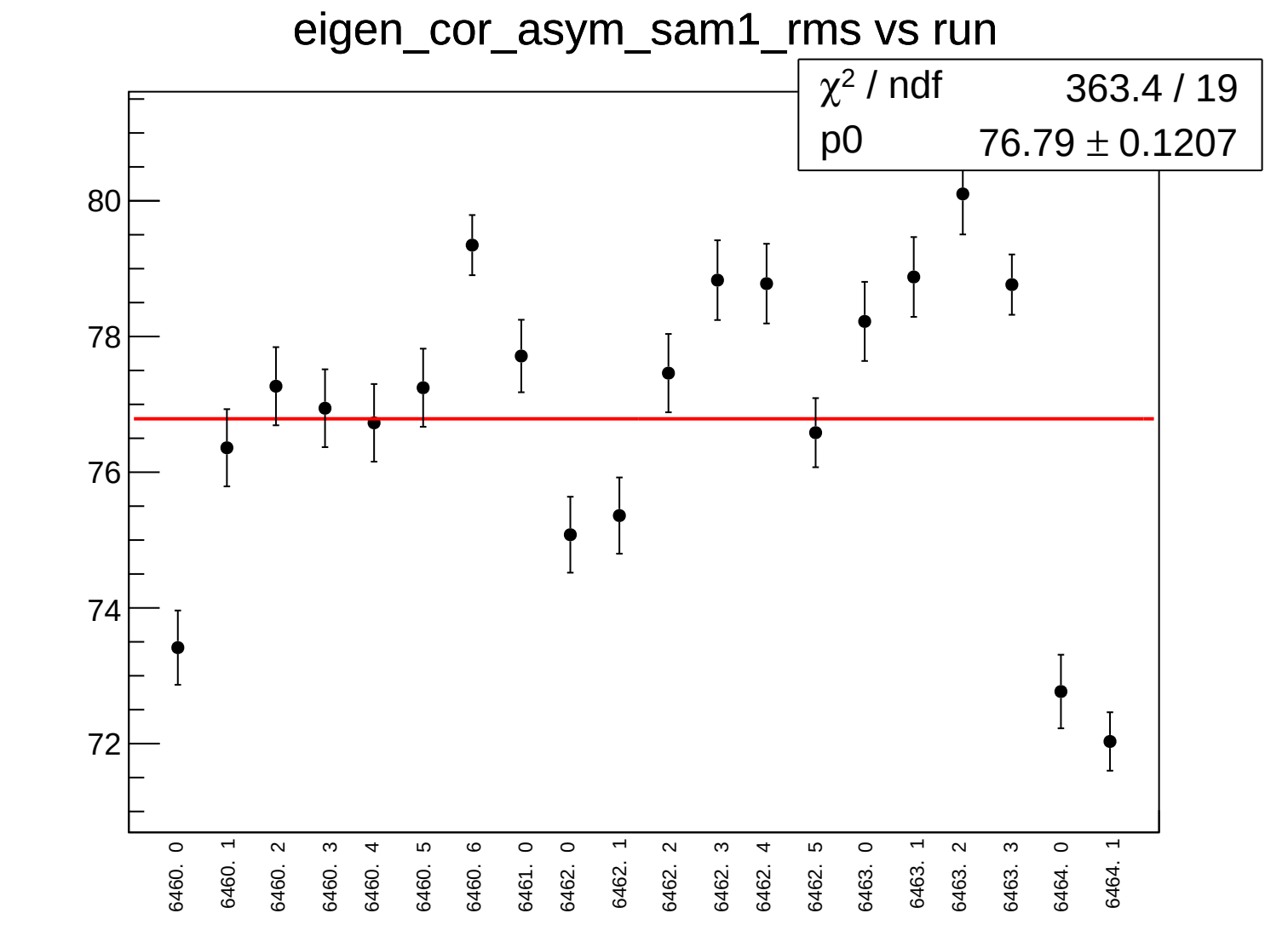

cor_asym_sam1_rms vs run
χ² / ndf 363.4 / 19
p0 76.79 ± 0.1207
80
78
76
74
72
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

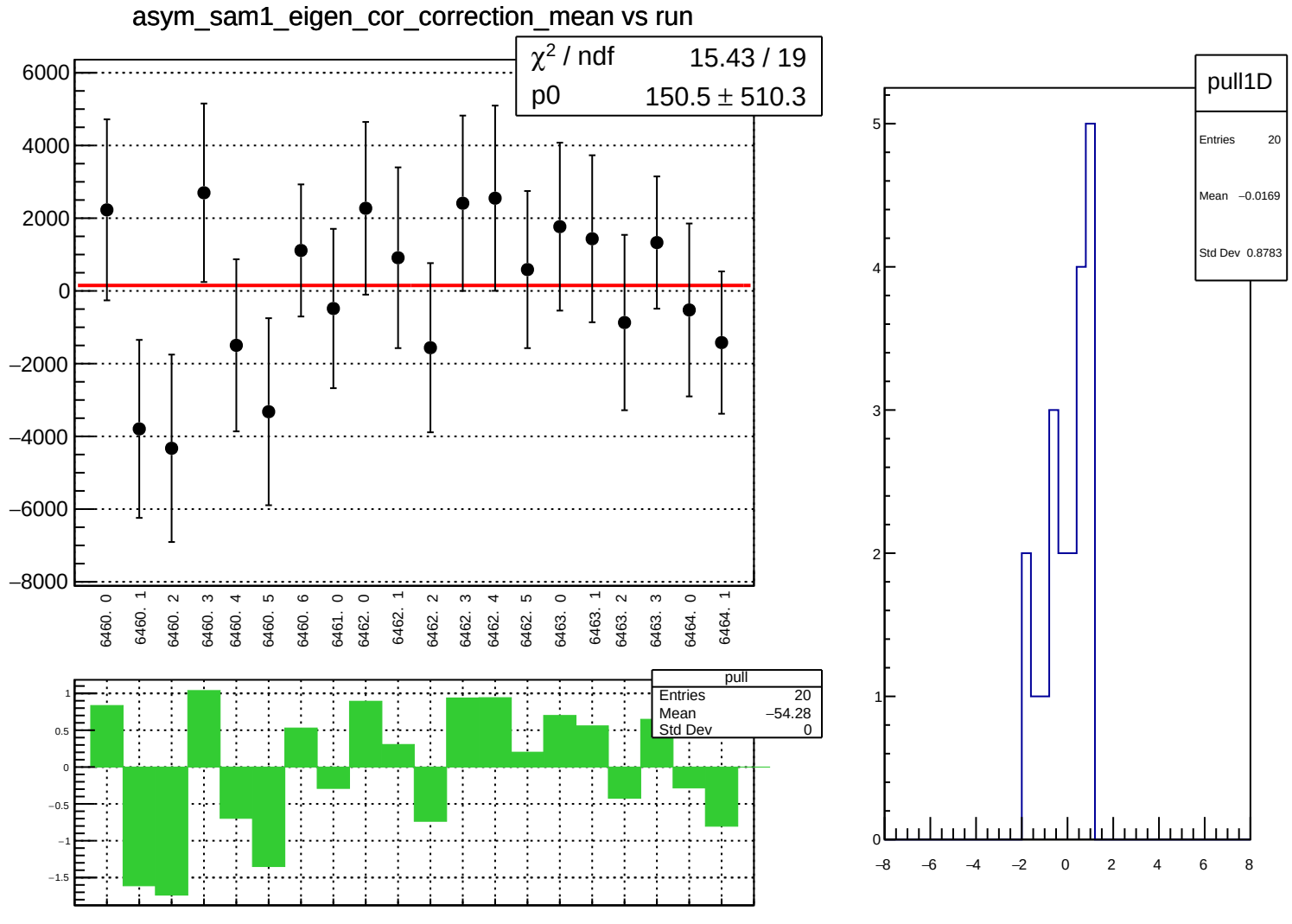

asym_sam1_cor_correction_mean vs run
χ² / ndf 15.43 / 19
p0 150.5 ± 510.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −54.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

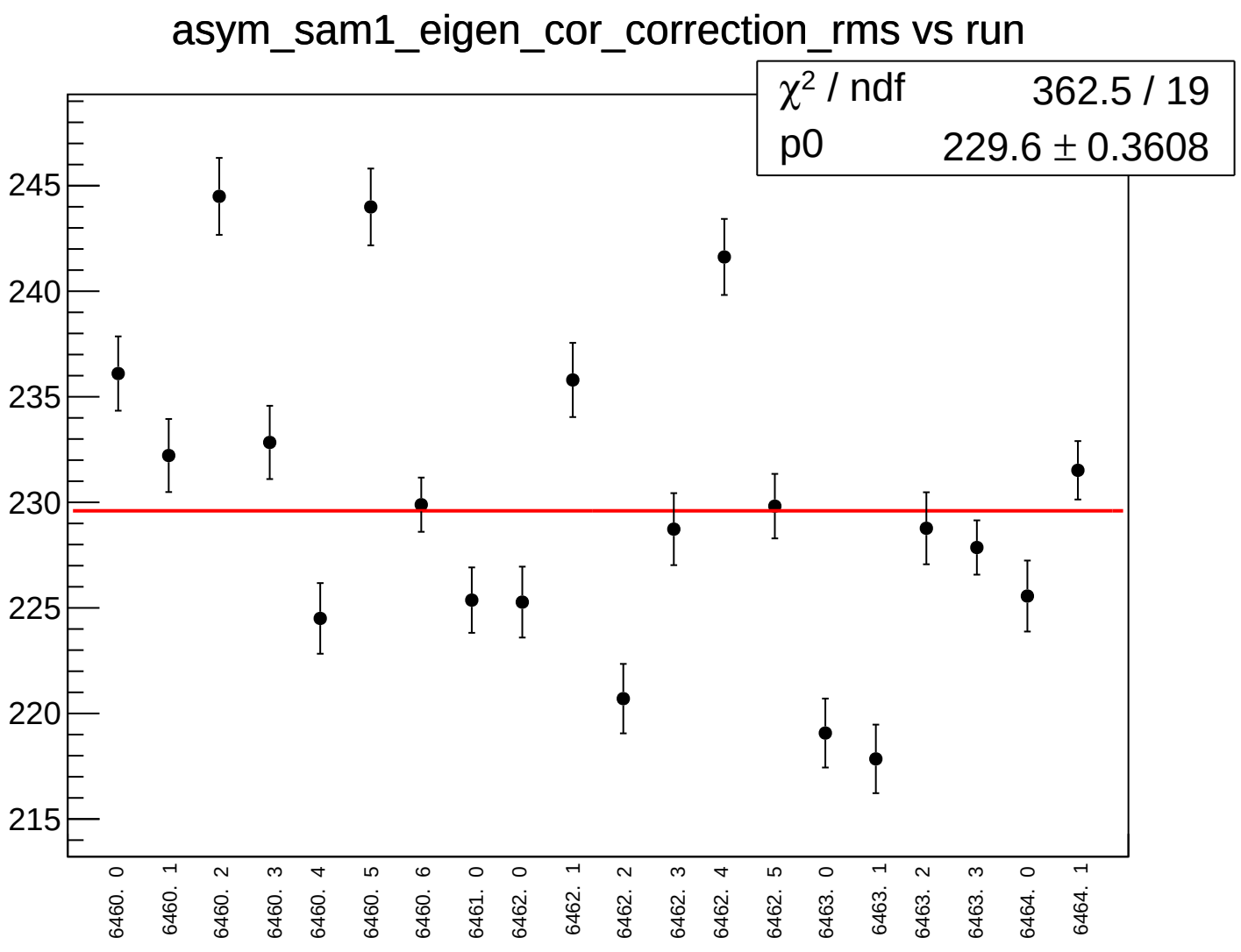

pull1D
Entries 20
Mean −0.0169
Std Dev 0.8783
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

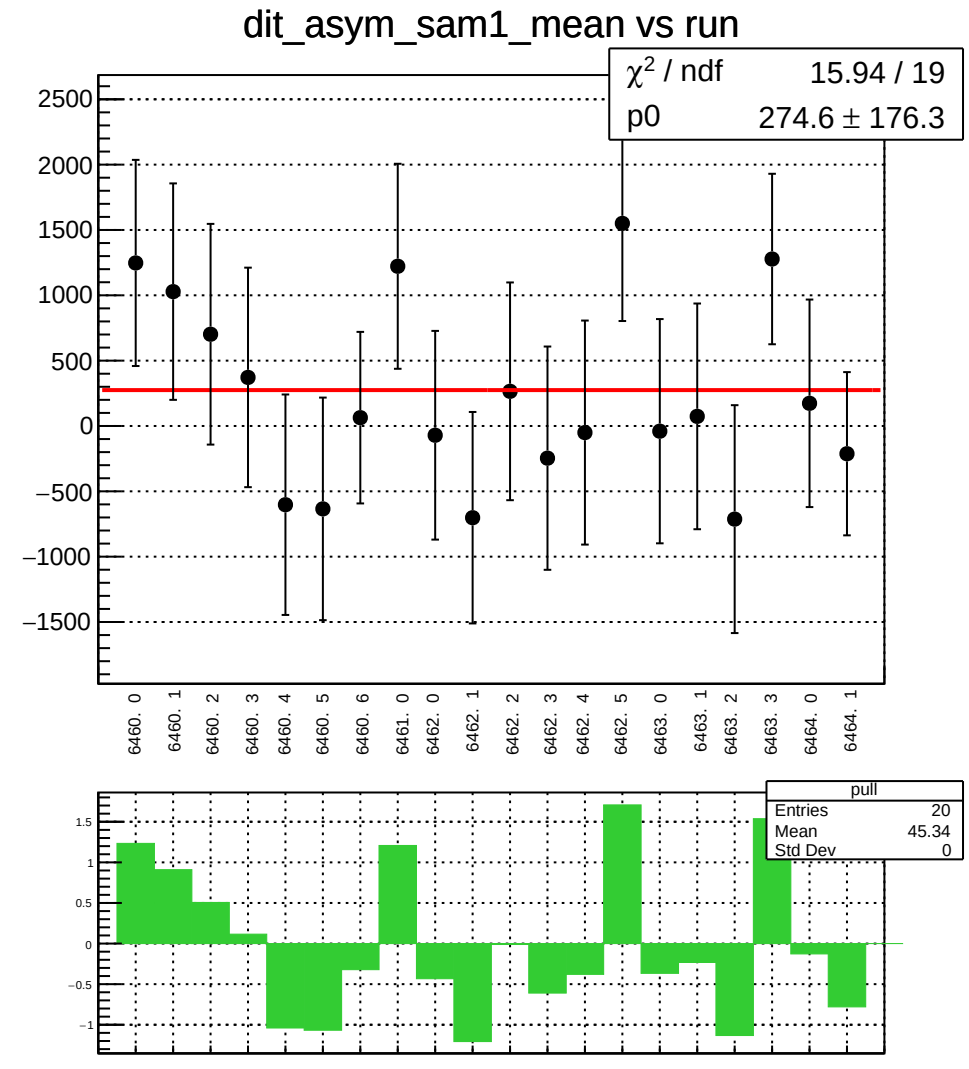

asym_sam1_cor_correction_rms vs run
χ² / ndf 362.5 / 19
p0 229.6 ± 0.3608
245
240
235
230
225
220
215
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

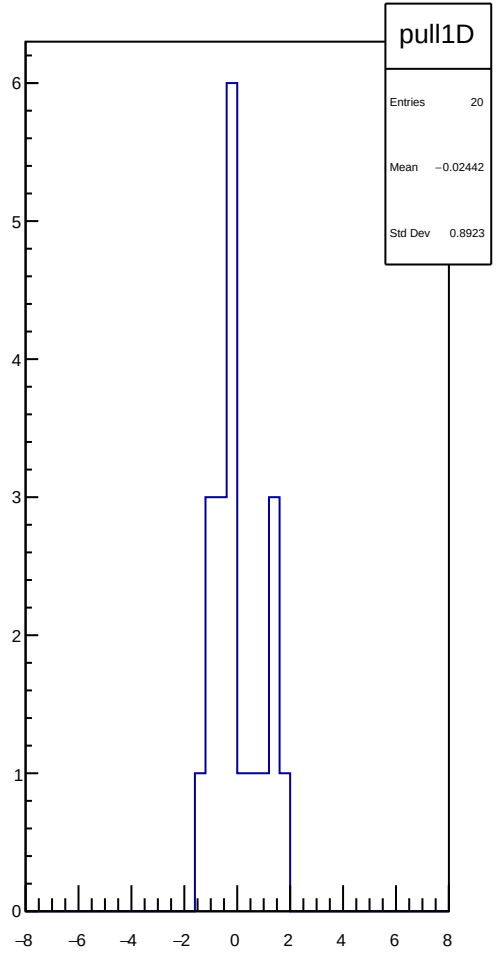

eigen_cor_asym_sam1_mean vs run
χ² / ndf 17.36 / 19
p0 267.2 ± 170.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02783
Std Dev 0.9313
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

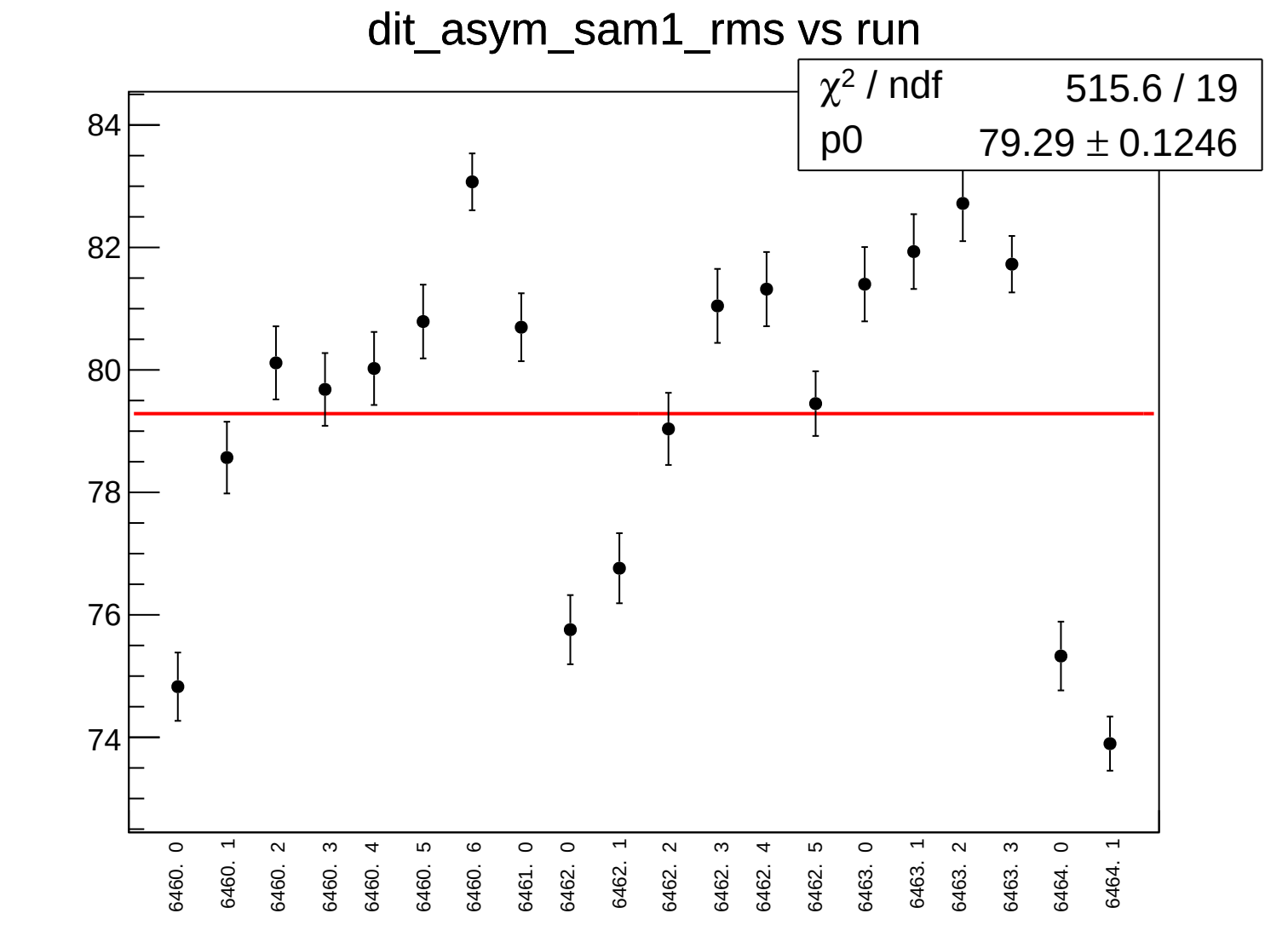

eigen_cor_asym_sam1_rms vs run
χ² / ndf 363.4 / 19
p0 76.79 ± 0.1207
80
78
76
74
72
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

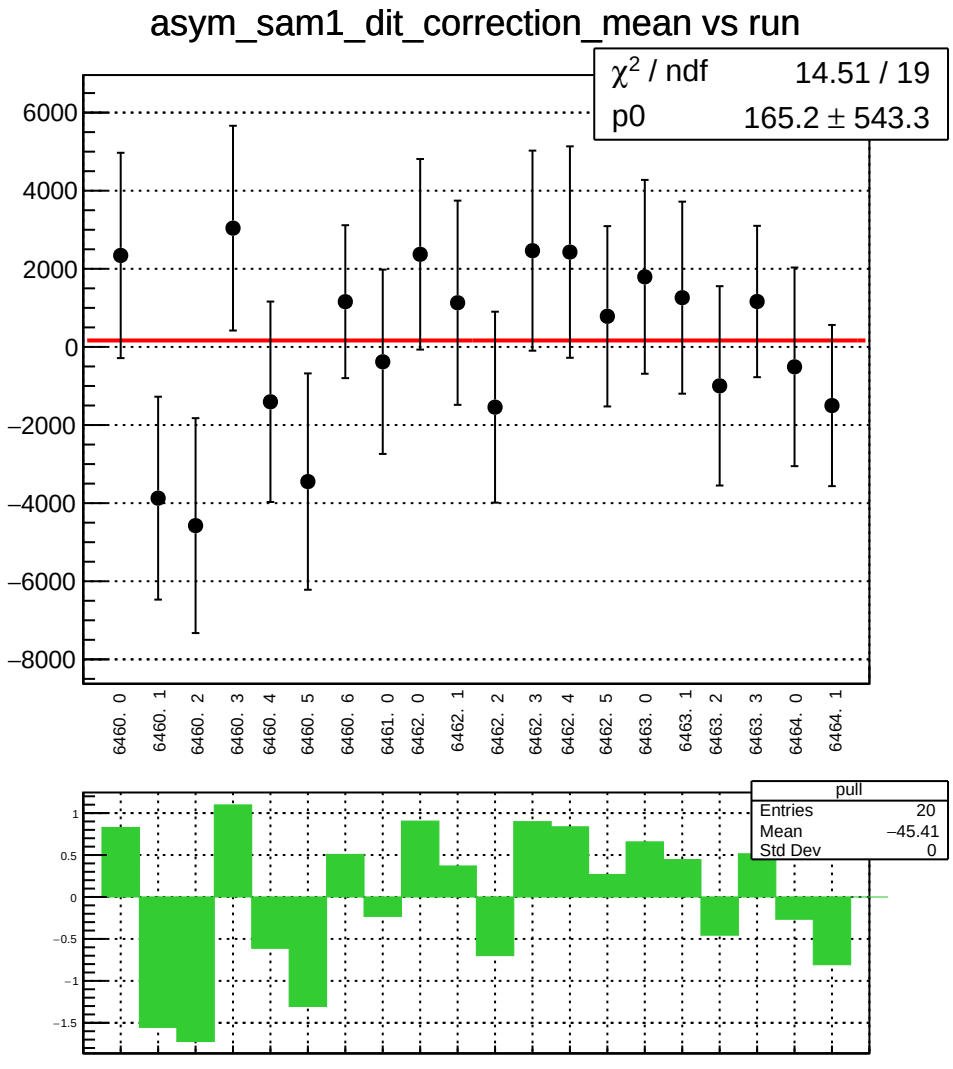

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 15.43 / 19
p0 150.5 ± 510.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −54.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0169
Std Dev 0.8783
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

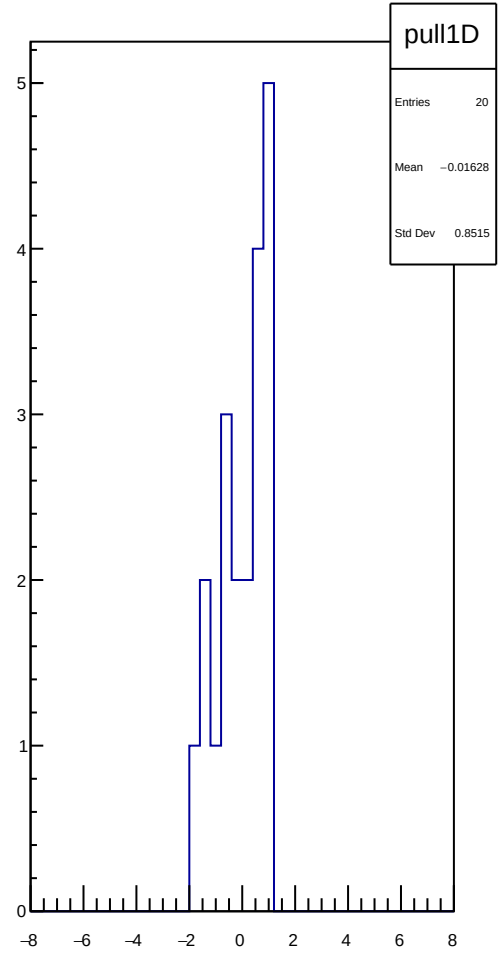

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 362.5 / 19
p0 229.6 ± 0.3608
245
240
235
230
225
220
215
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

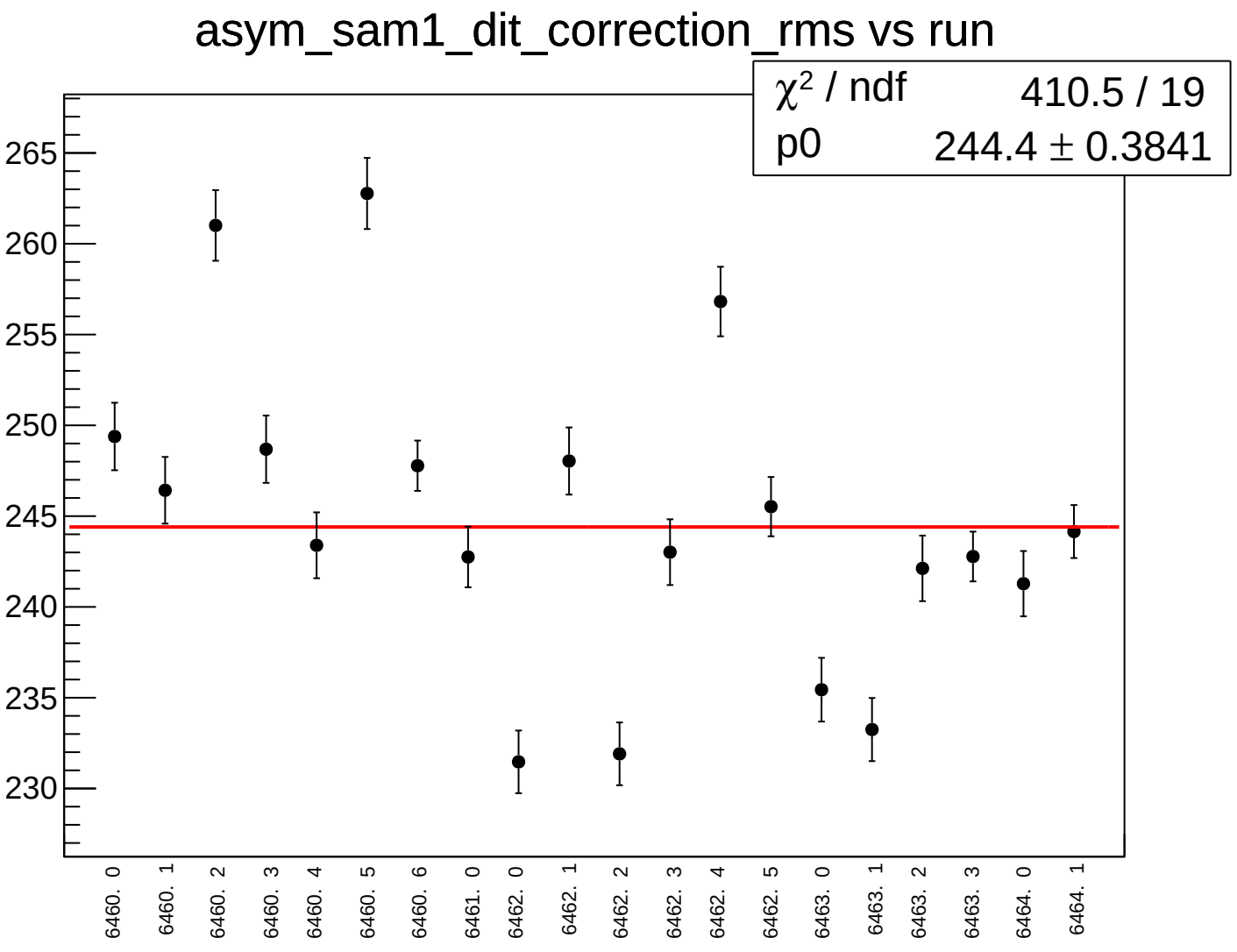

dit_asym_sam1_mean vs run
χ² / ndf 15.94 / 19
p0 274.6 ± 176.3
2500
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 45.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1

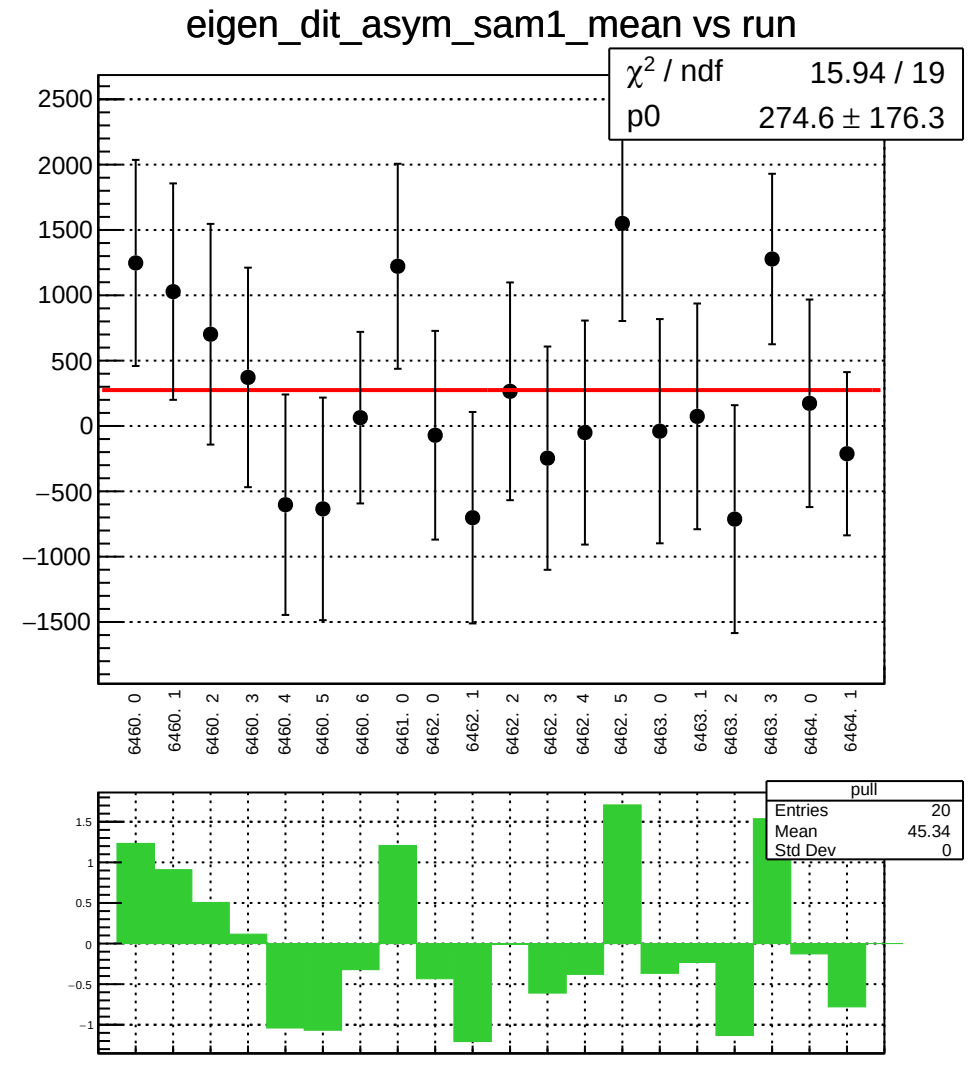

pull1D
Entries 20
Mean −0.02442
Std Dev 0.8923
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

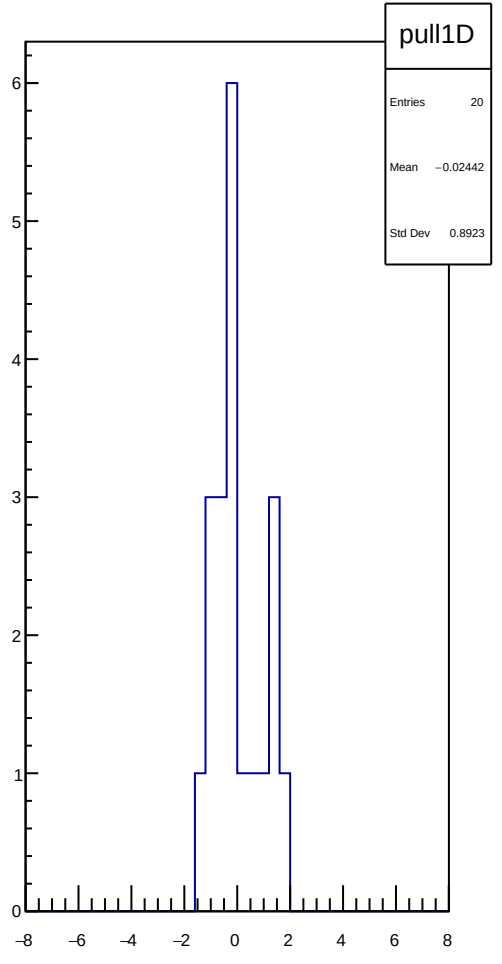

dit_asym_sam1_rms vs run
χ² / ndf 515.6 / 19
p0 79.29 ± 0.1246
84
82
80
78
76
74
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

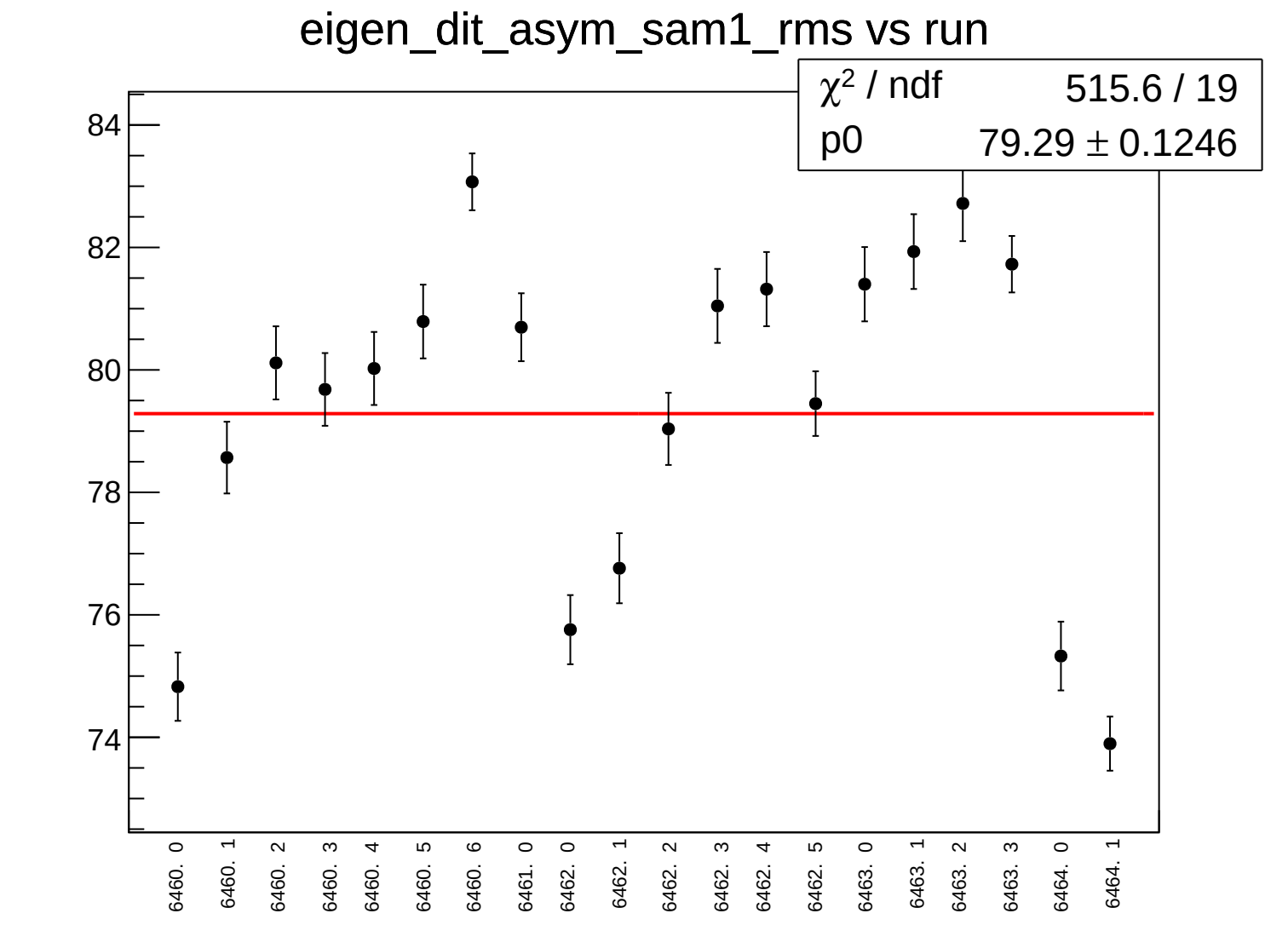

asym_sam1_dit_correction_mean vs run
χ² / ndf 14.51 / 19
p0 165.2 ± 543.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.41
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

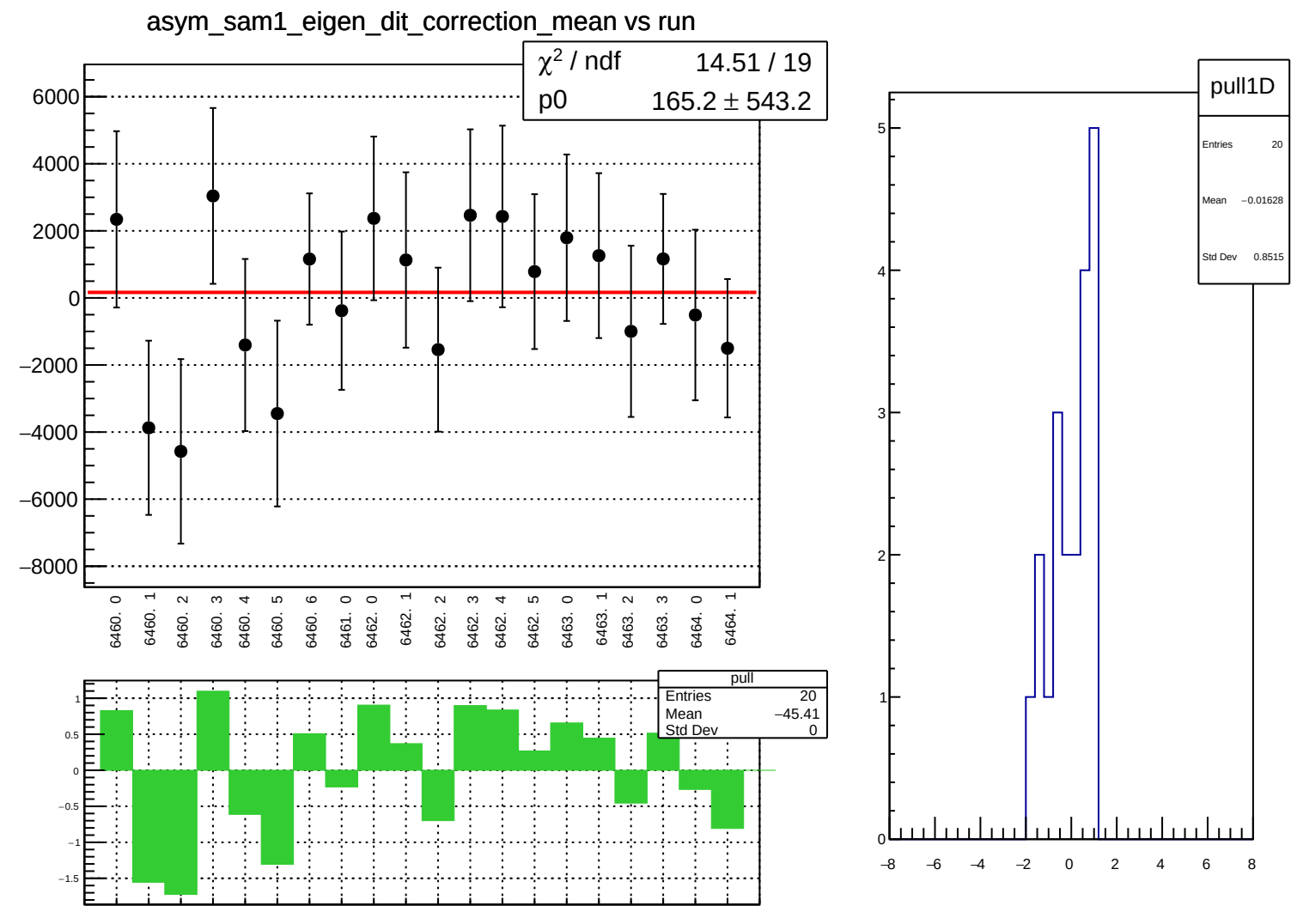

pull1D
Entries 20
Mean −0.01628
Std Dev 0.8515
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

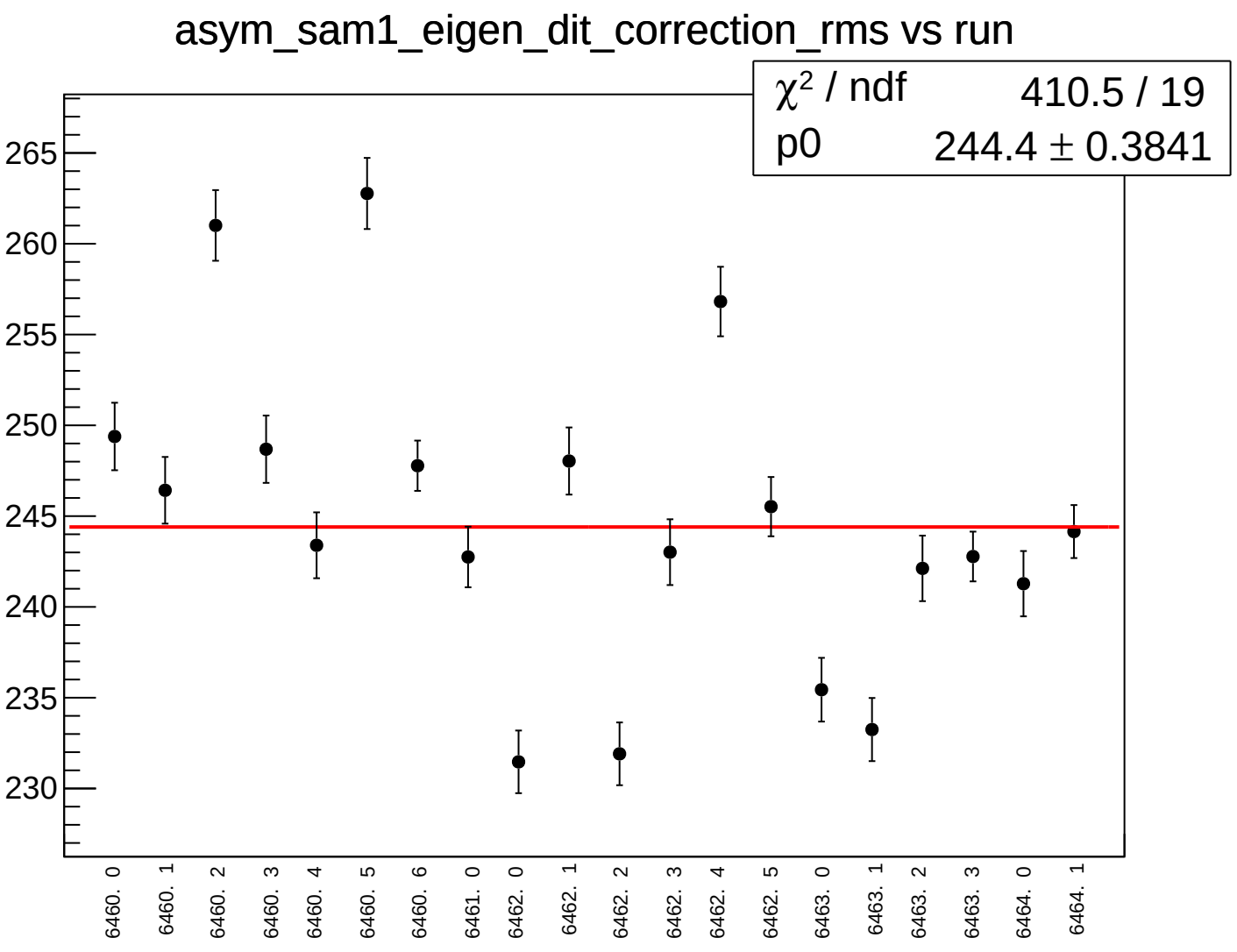

asym_sam1_dit_correction_rms vs run
χ² / ndf 410.5 / 19
p0 244.4 ± 0.3841
265
260
255
250
245
240
235
230
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

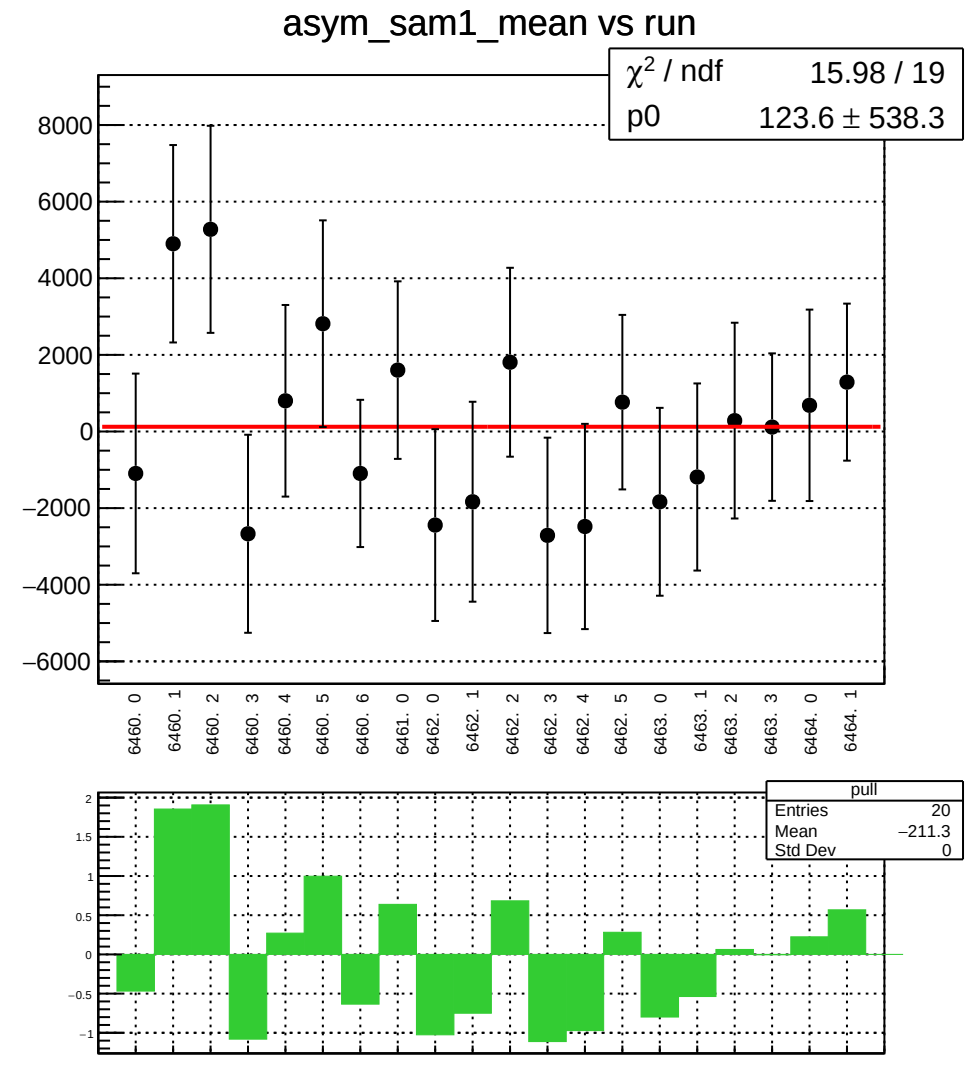

eigen_dit_asym_sam1_mean vs run
χ² / ndf 15.94 / 19
p0 274.6 ± 176.3
2500
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 45.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1

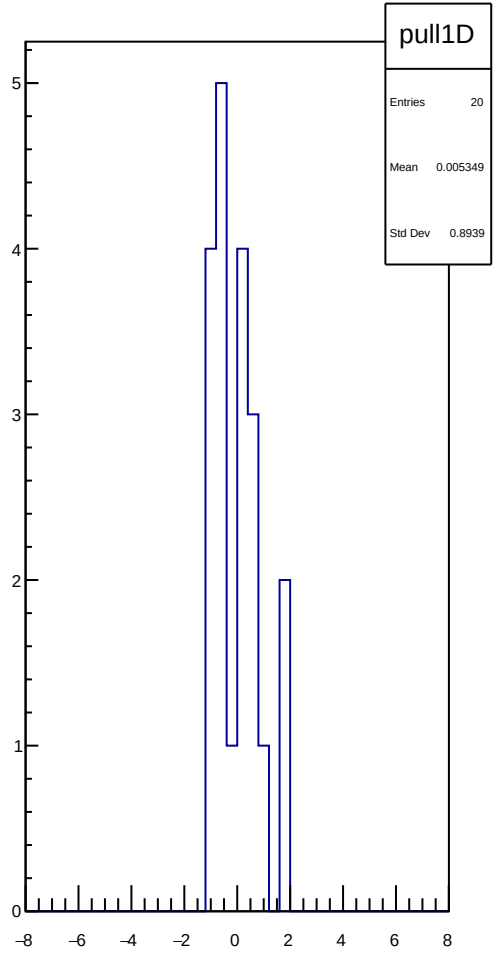

pull1D
Entries 20
Mean −0.02442
Std Dev 0.8923
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

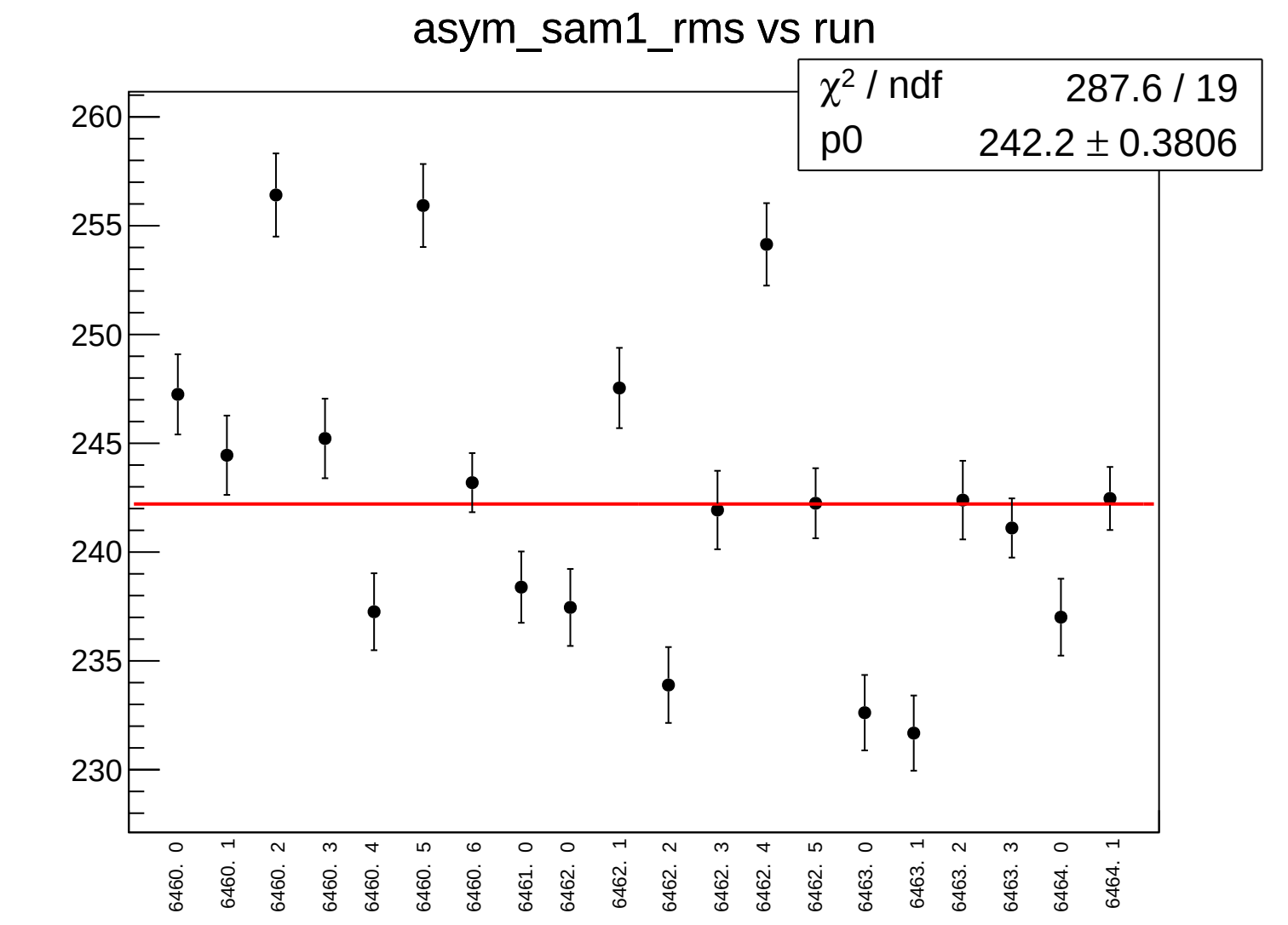

eigen_dit_asym_sam1_rms vs run
χ² / ndf 515.6 / 19
p0 79.29 ± 0.1246
84
82
80
78
76
74
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

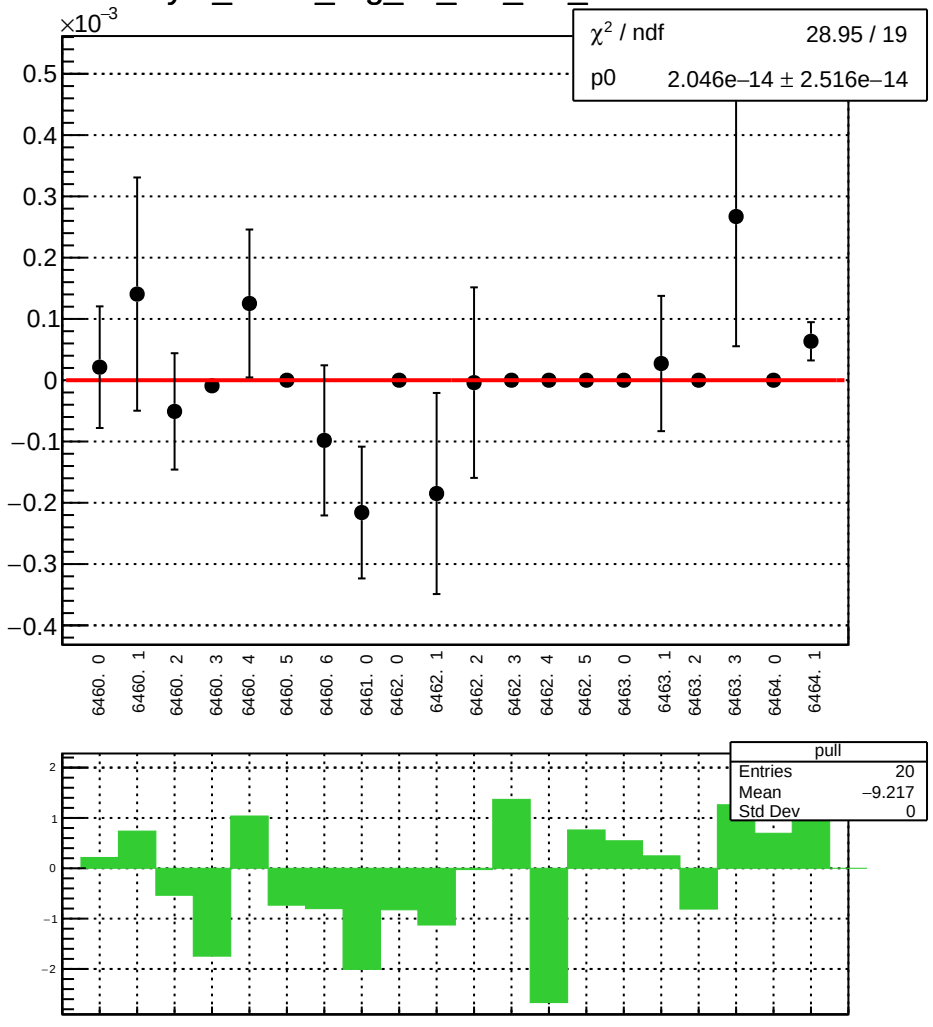

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 14.51 / 19
p0 165.2 ± 543.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.41
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01628
Std Dev 0.8515
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

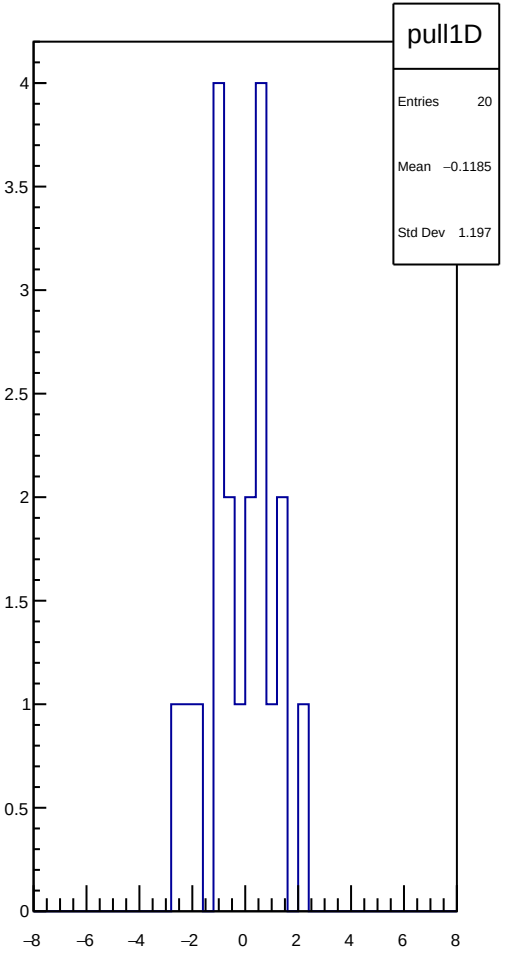

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 410.5 / 19
p0 244.4 ± 0.3841
265
260
255
250
245
240
235
230
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

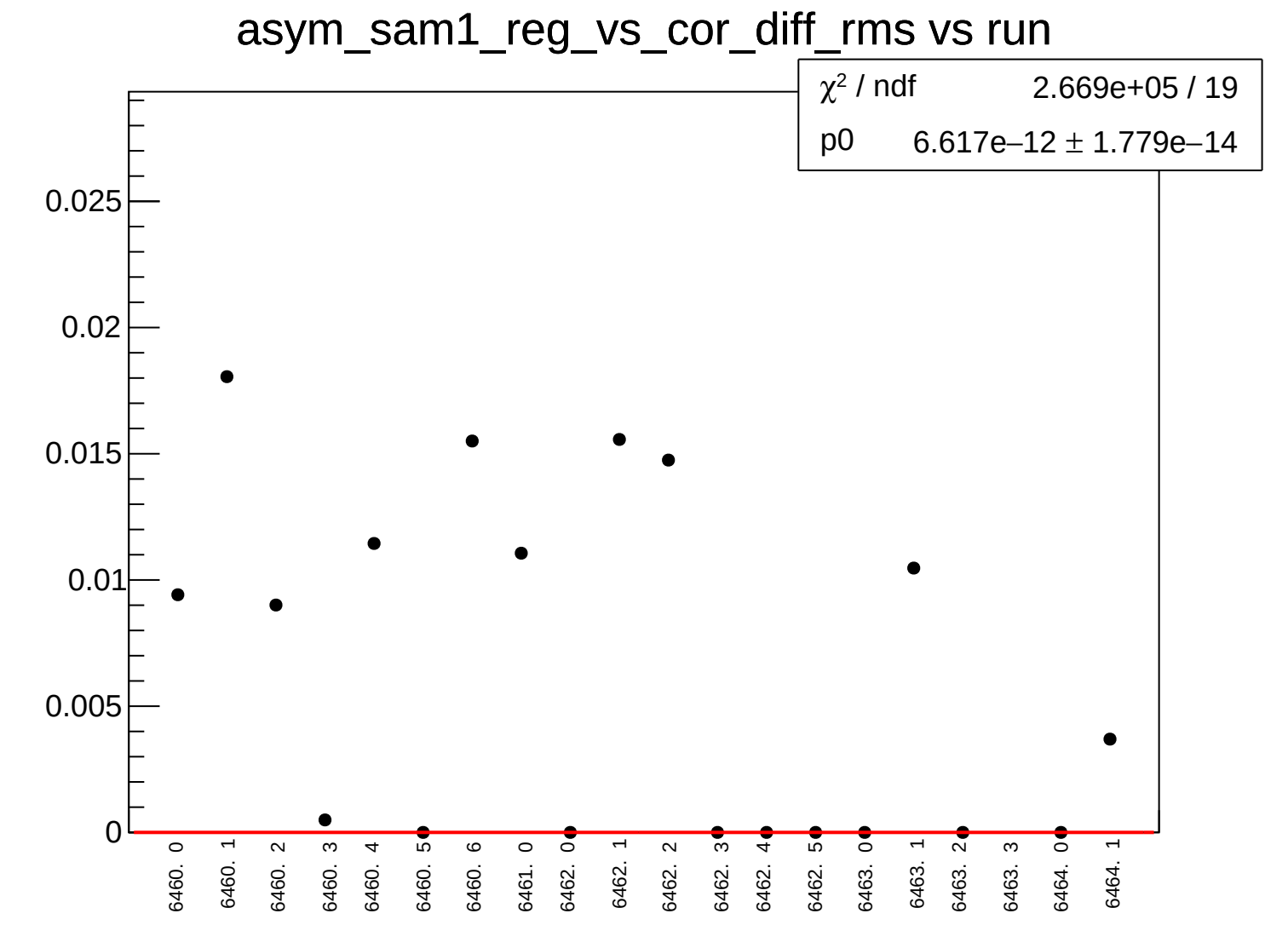

asym_sam1_mean vs run
χ² / ndf 15.98 / 19
p0 123.6 ± 538.3
8000
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −211.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

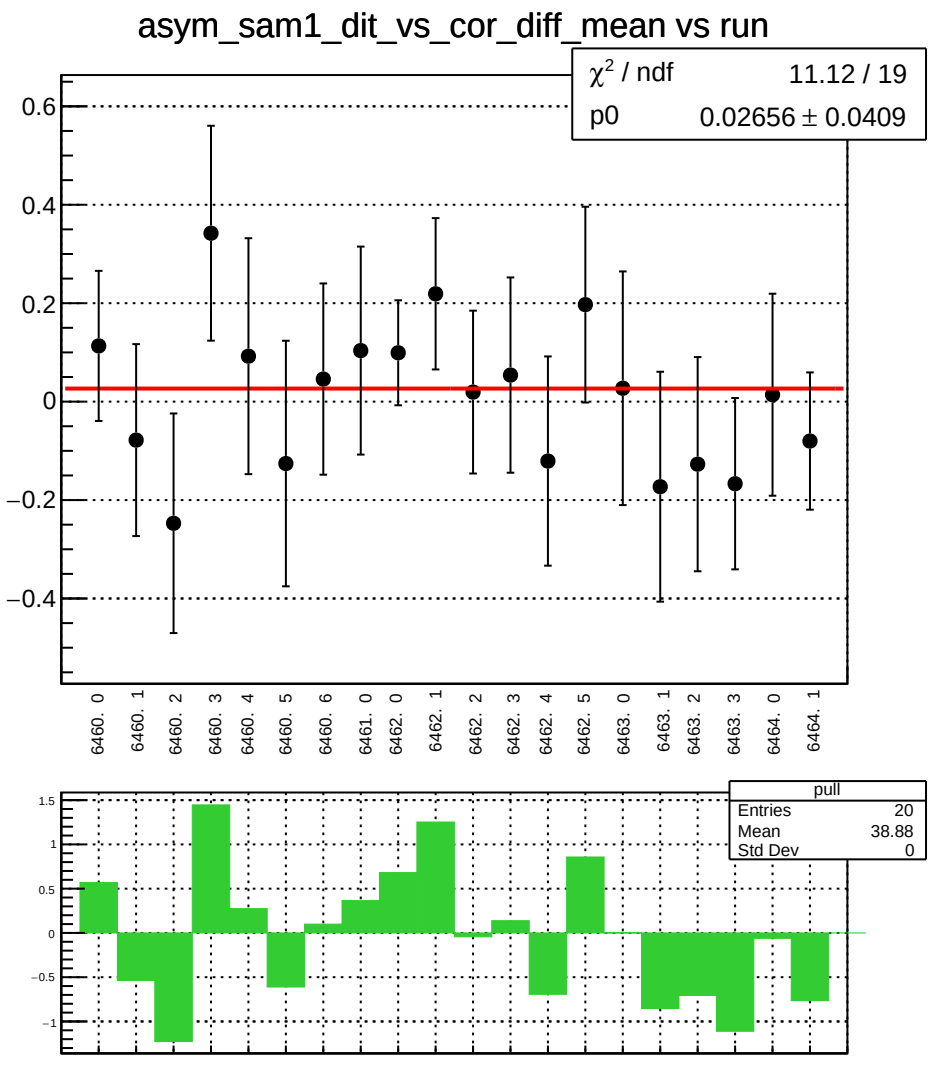

pull1D
Entries 20
Mean 0.005349
Std Dev 0.8939
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

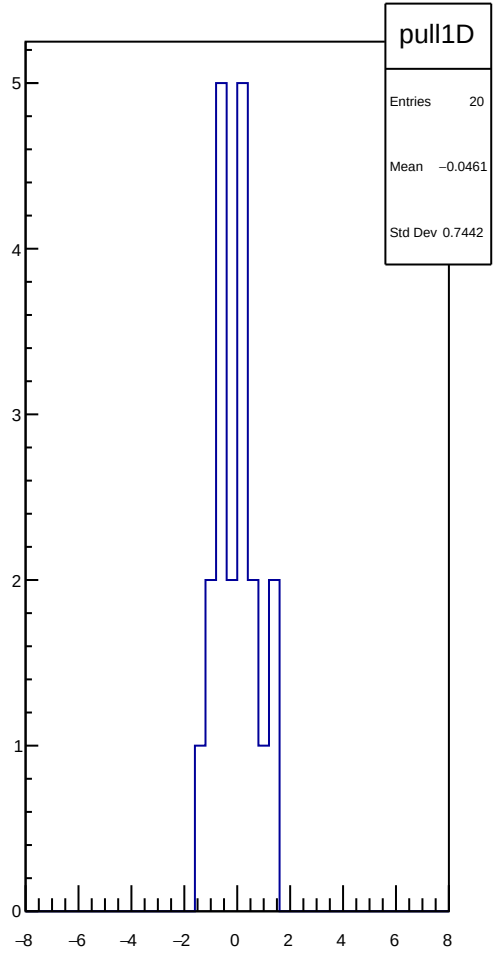

asym_sam1_rms vs run
χ² / ndf 287.6 / 19
p0 242.2 ± 0.3806
260
255
250
245
240
235
230
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

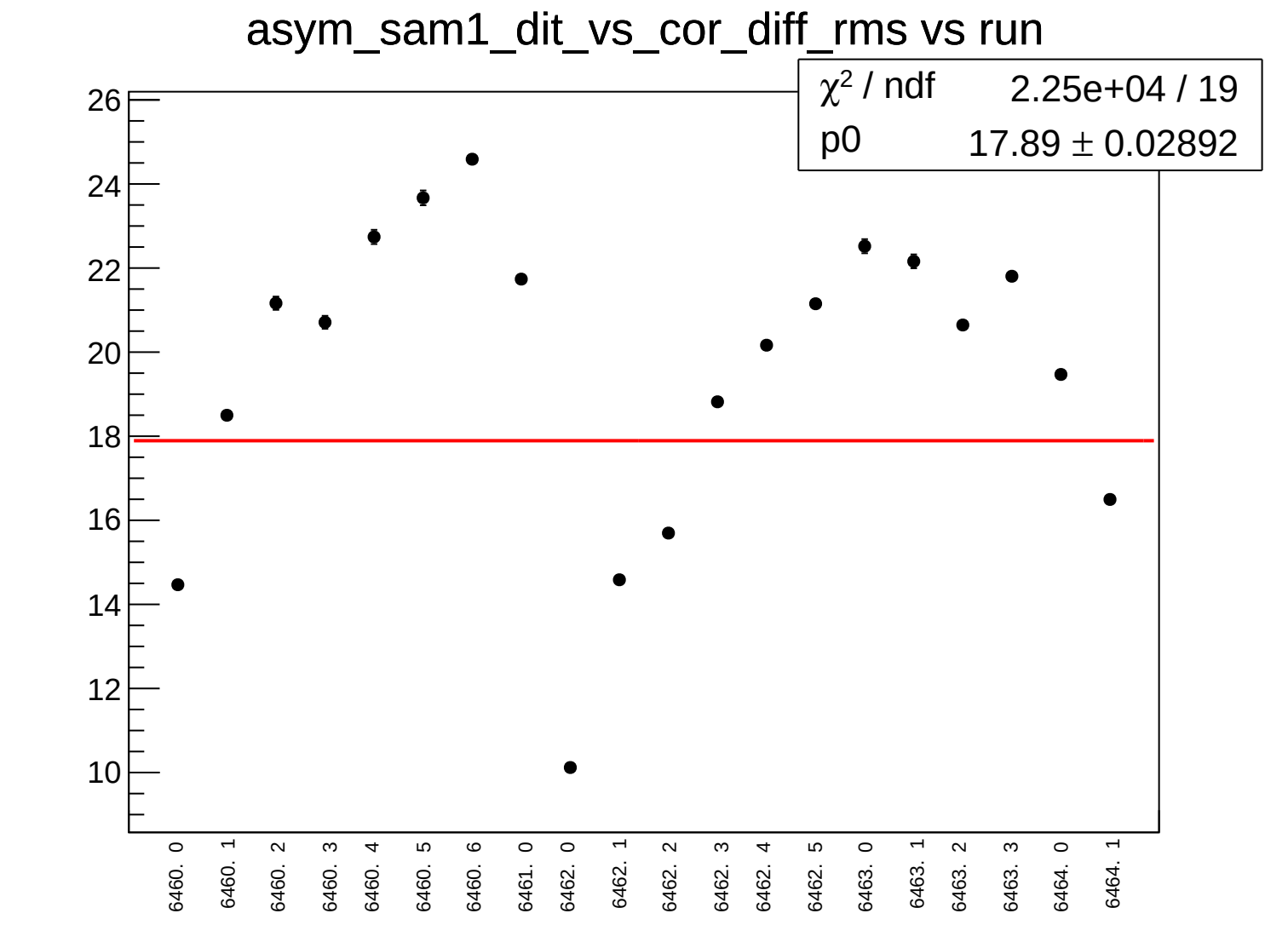

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 28.95 / 19
p0 2.046e−14 ± 2.516e−14
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −9.217
Std Dev 0
2
1
0
−1
−2

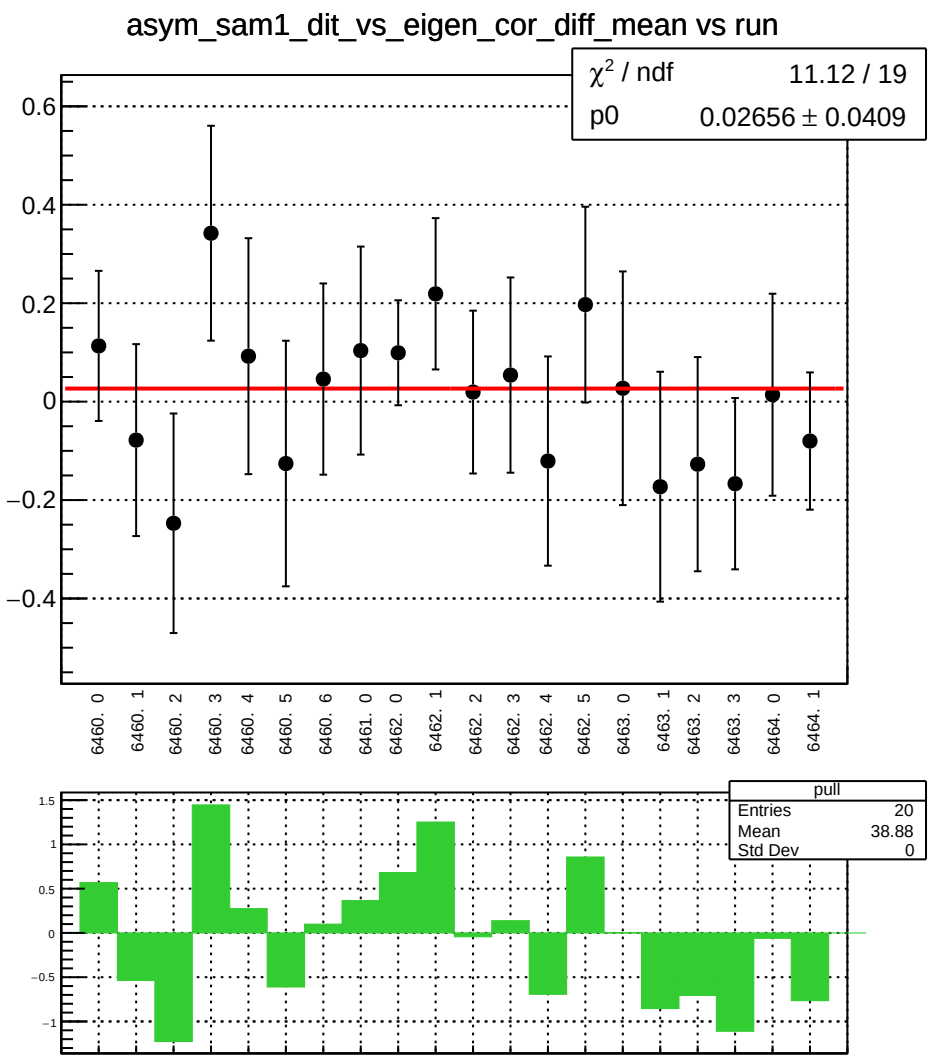

pull1D
Entries 20
Mean −0.1185
Std Dev 1.197
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

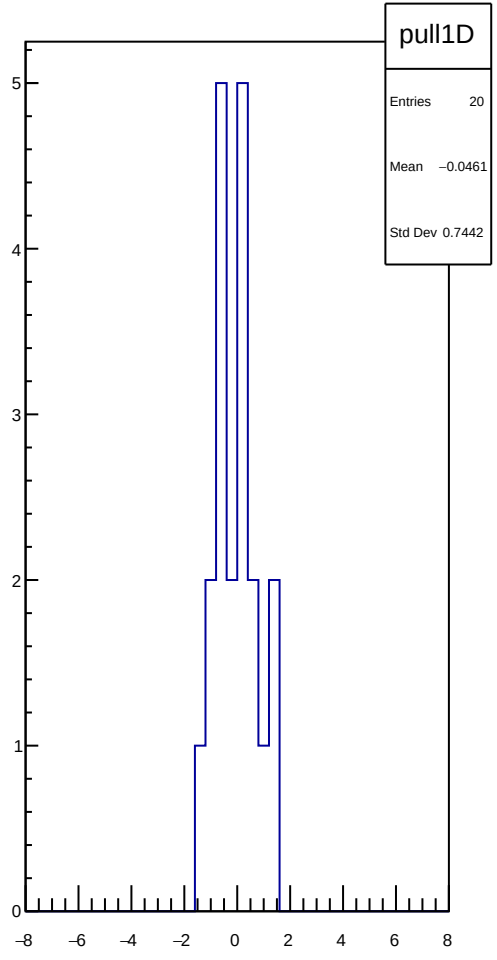

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 2.669e+05 / 19
p0 6.617e−12 ± 1.779e−14
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

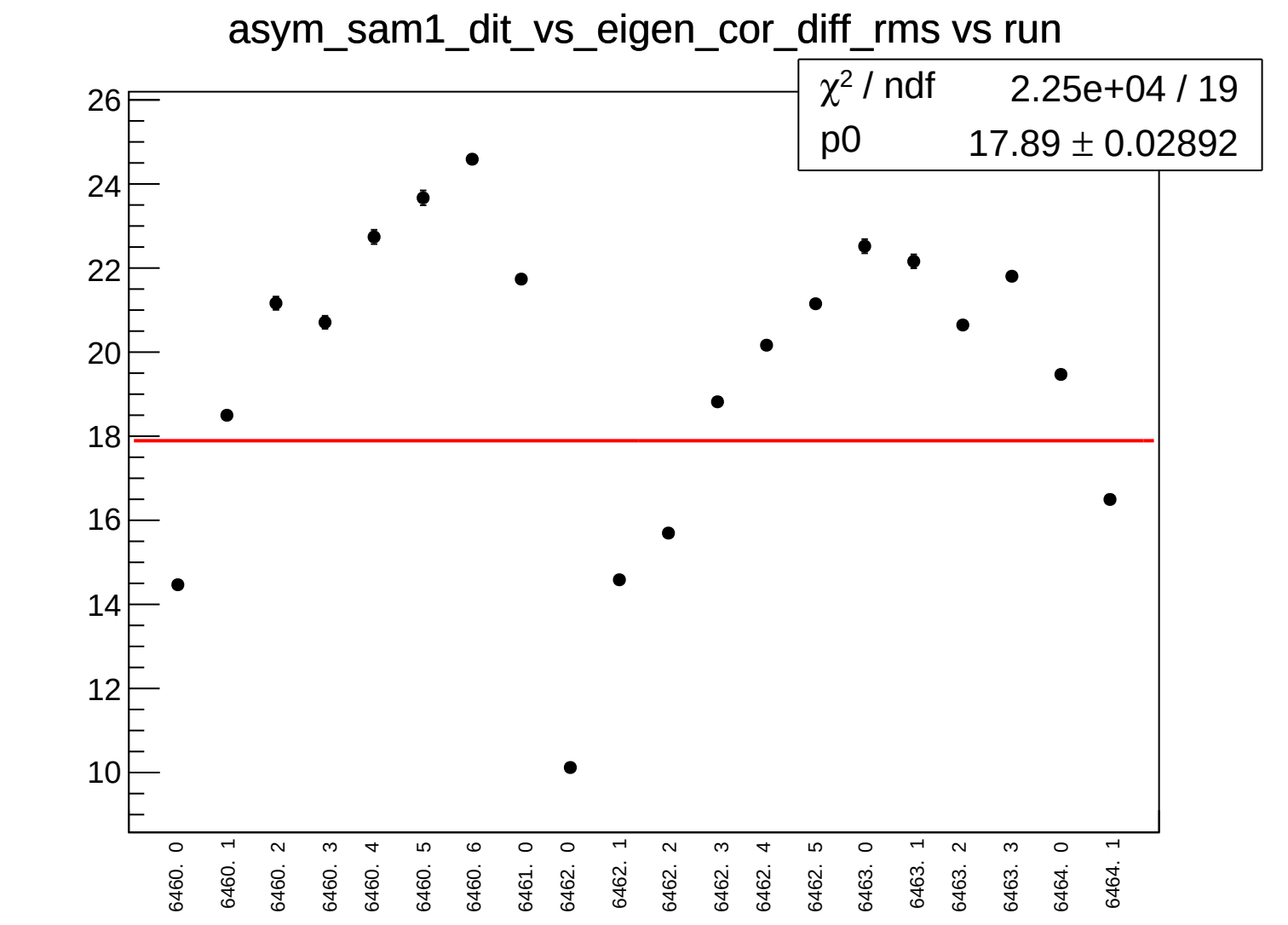

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 11.12 / 19
p0 0.02656 ± 0.0409
0.6
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1

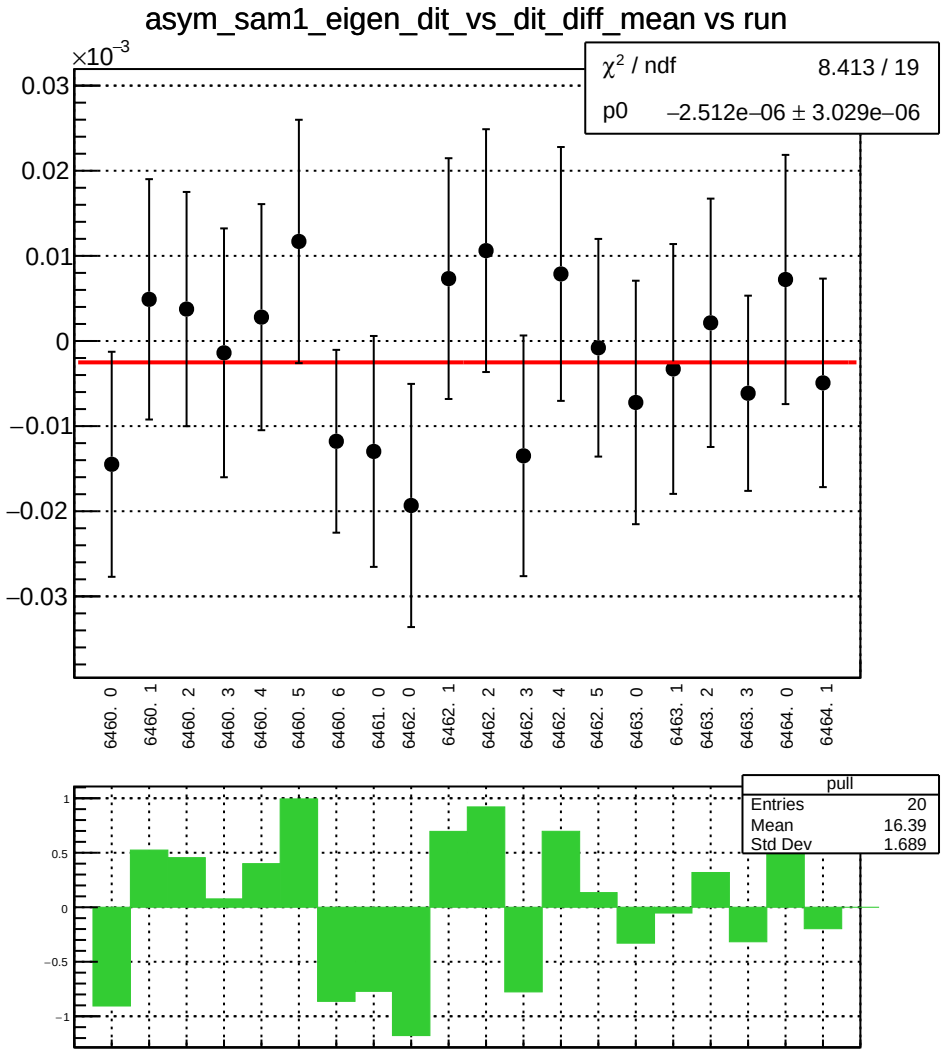

pull1D
Entries 20
Mean −0.0461
Std Dev 0.7442
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

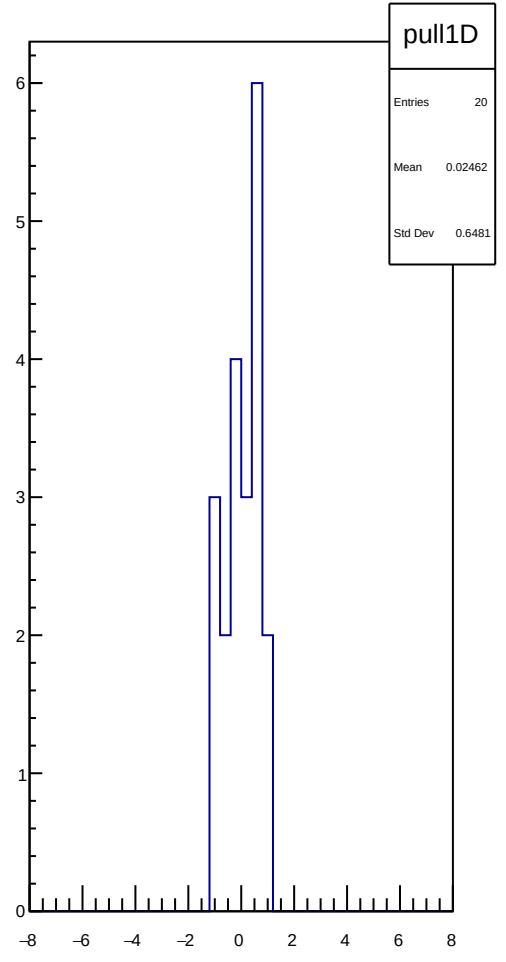

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.25e+04 / 19
p0 17.89 ± 0.02892
26
24
22
20
18
16
14
12
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

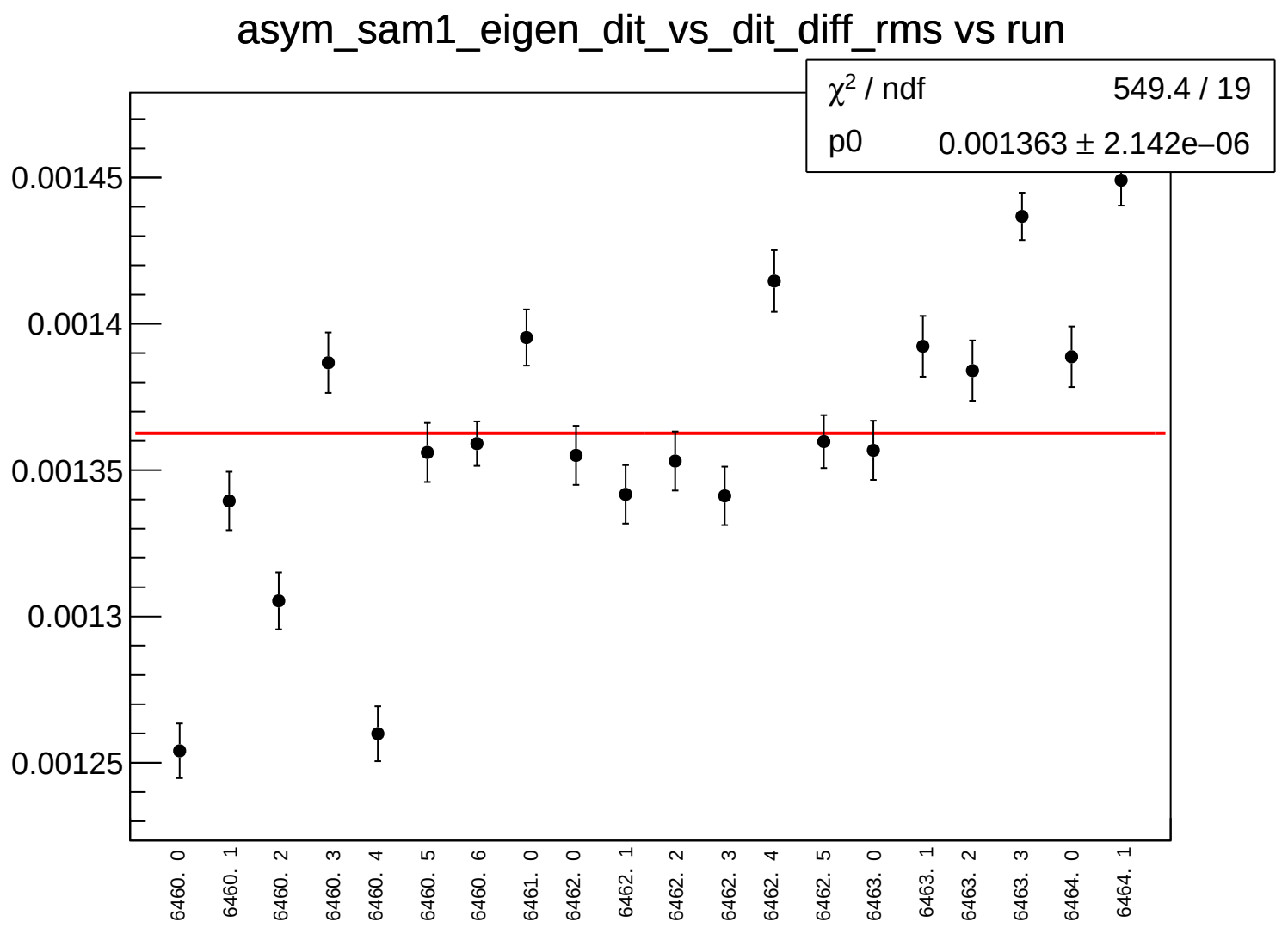

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.12 / 19
p0 0.02656 ± 0.0409
0.6
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1

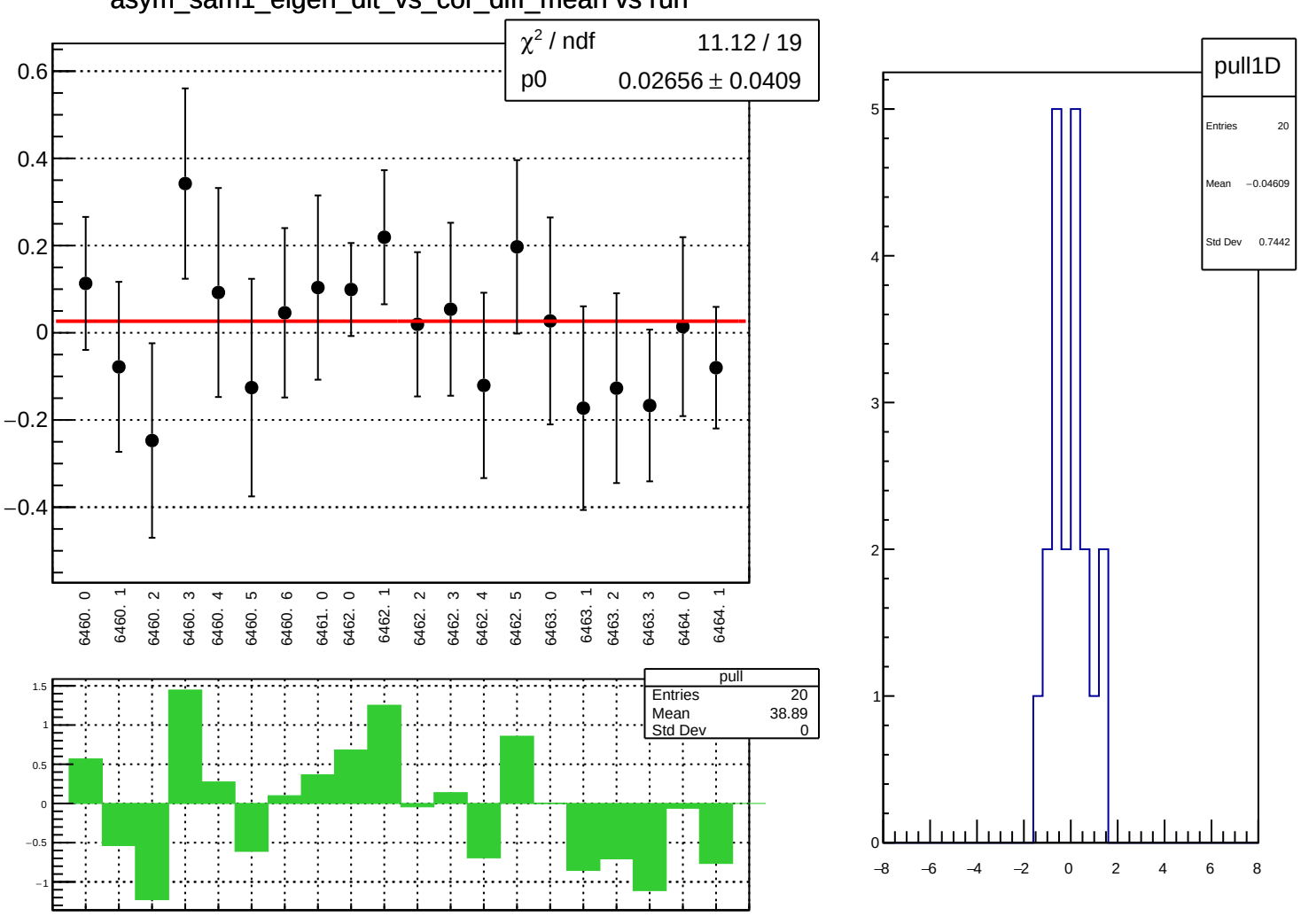

pull1D
Entries 20
Mean −0.0461
Std Dev 0.7442
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

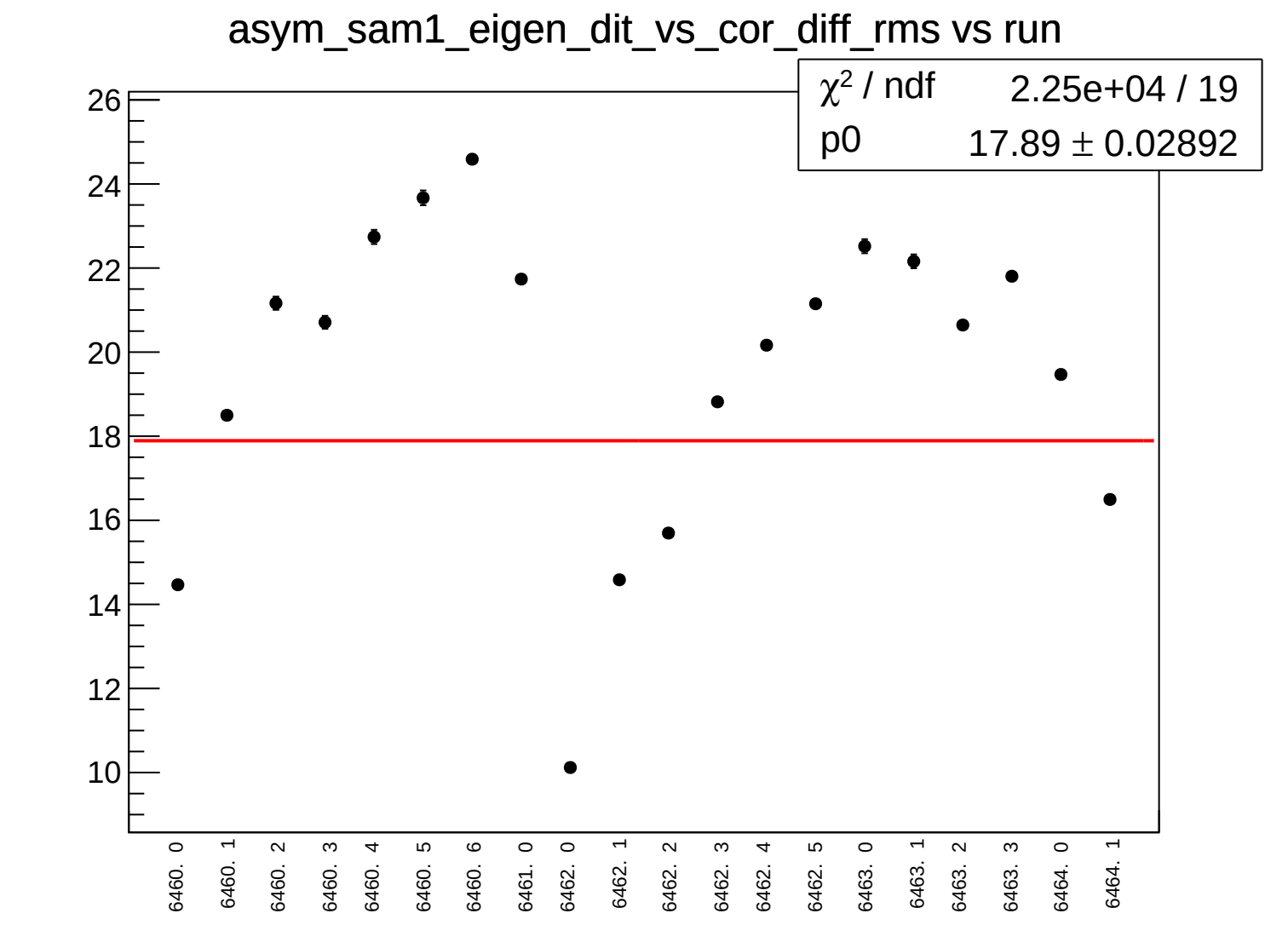

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.25e+04 / 19
p0 17.89 ± 0.02892
26
24
22
20
18
16
14
12
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

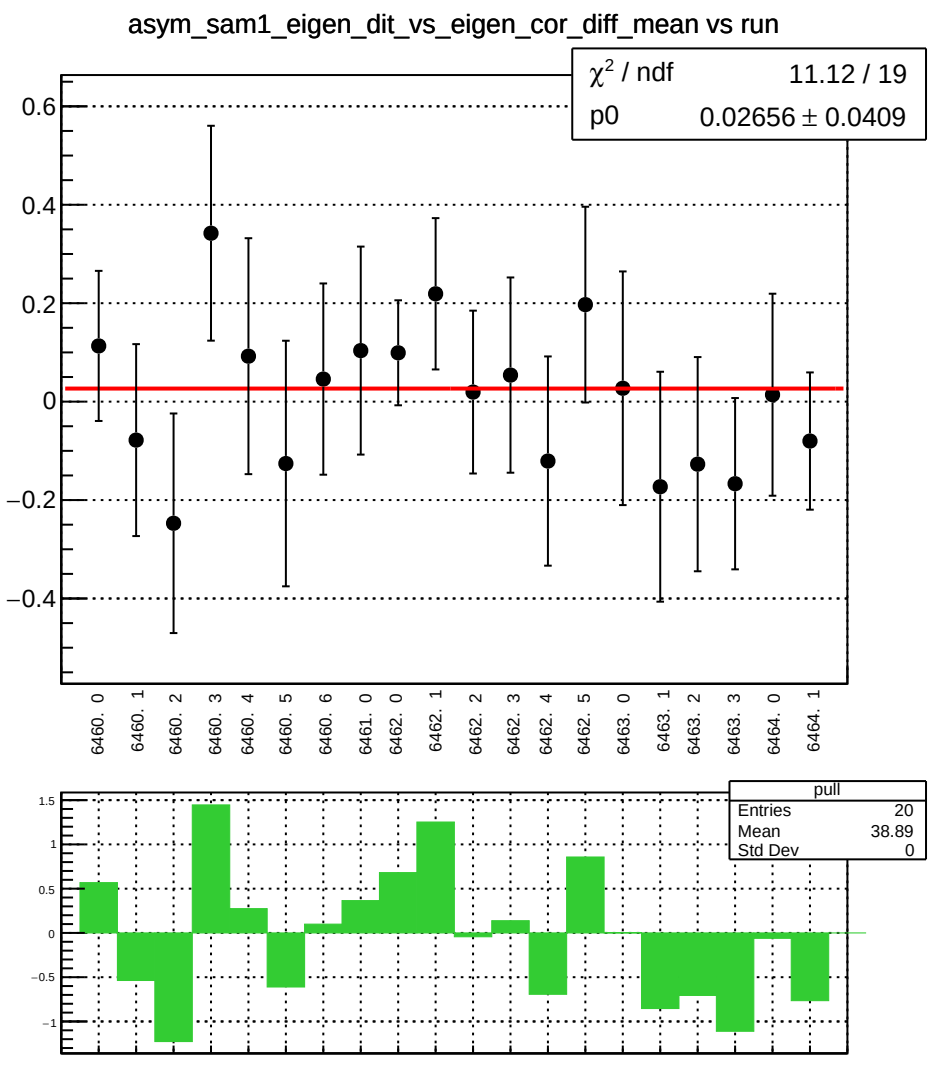

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 8.413 / 19
p0 −2.512e−06 ± 3.029e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.39
Std Dev 1.689
1
0.5
0
−0.5
−1

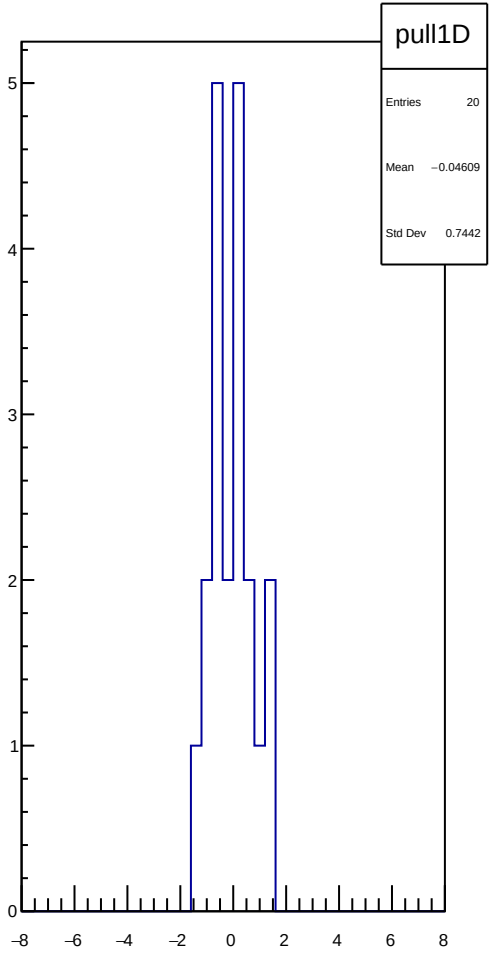

pull1D
Entries 20
Mean 0.02462
Std Dev 0.6481
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

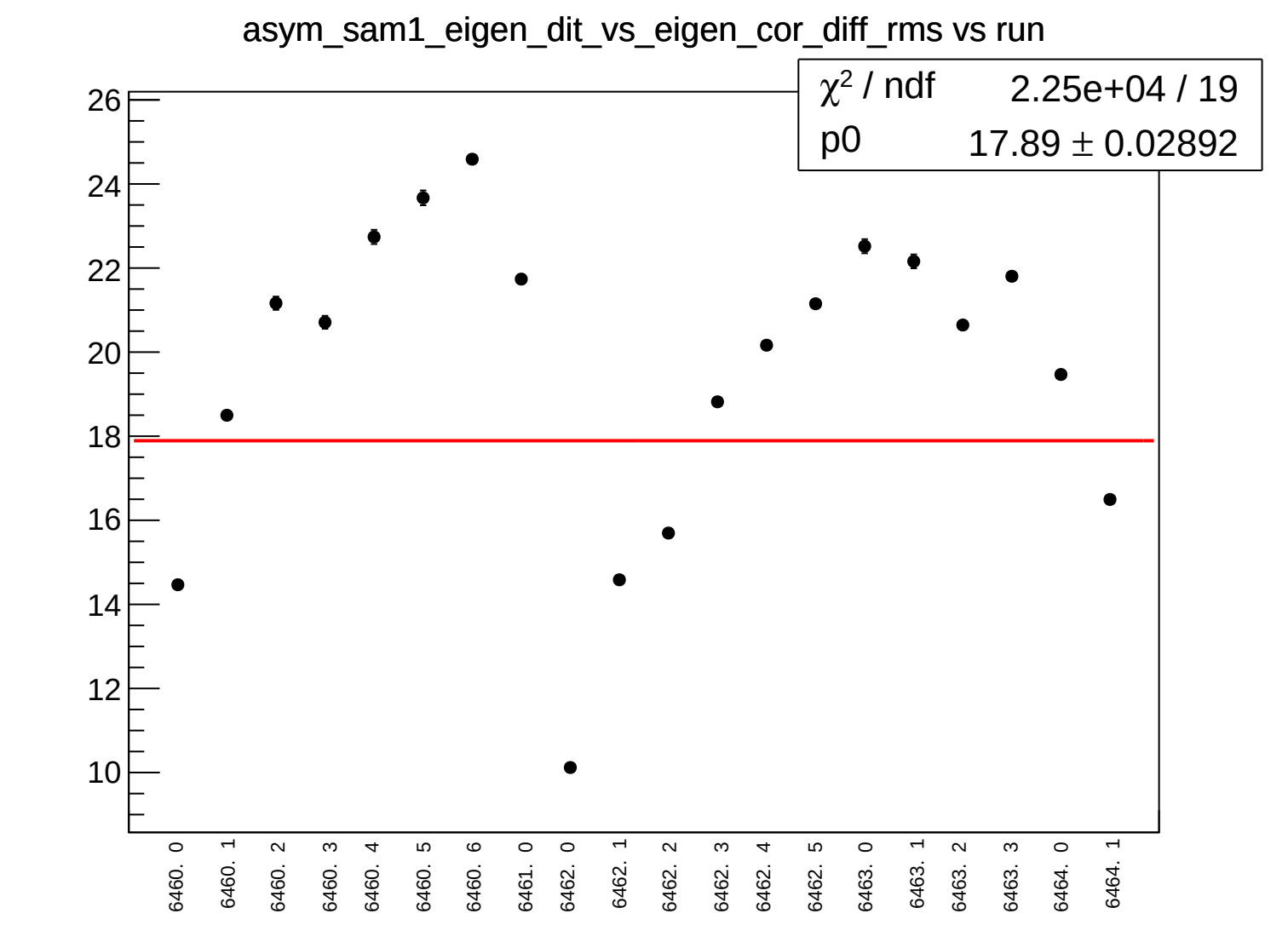

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 549.4 / 19
p0 0.001363 ± 2.142e−06
0.00145
0.0014
0.00135
0.0013
0.00125
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

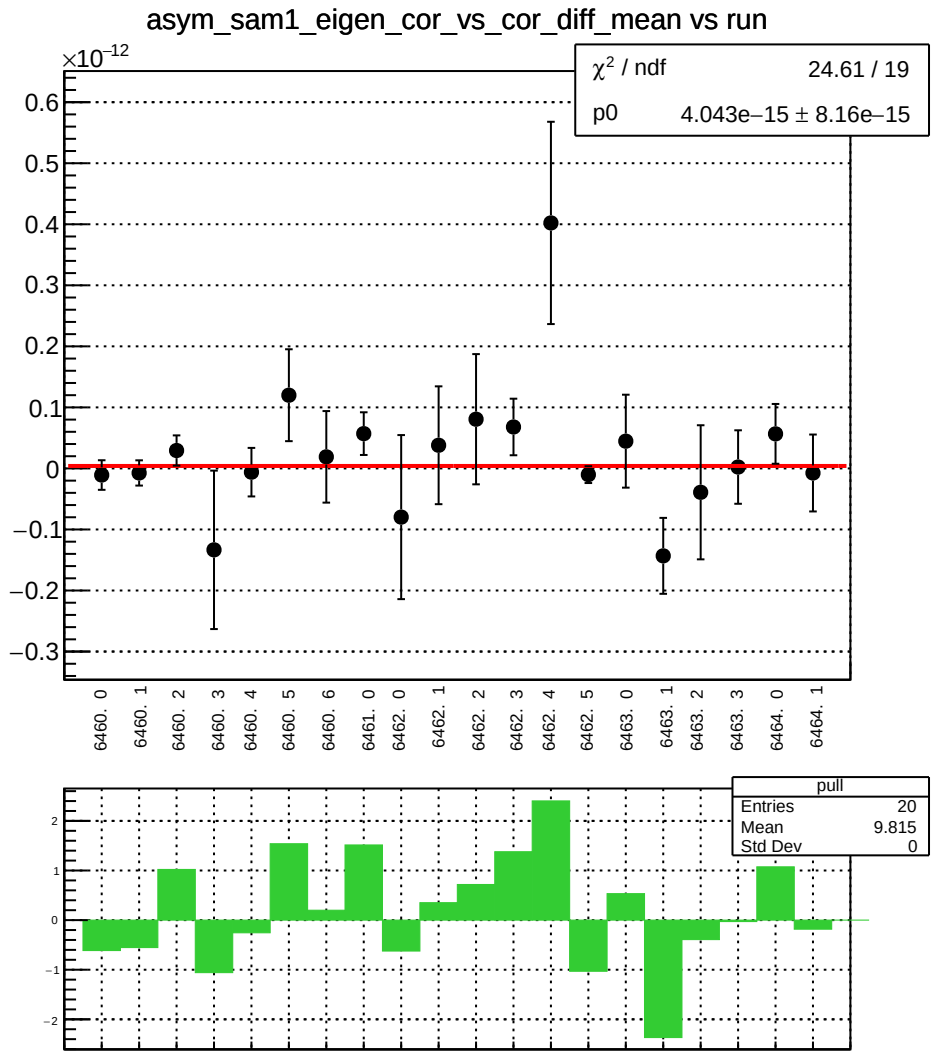

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 11.12 / 19
p0 0.02656 ± 0.0409
0.6
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.89
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.04609
Std Dev 0.7442
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

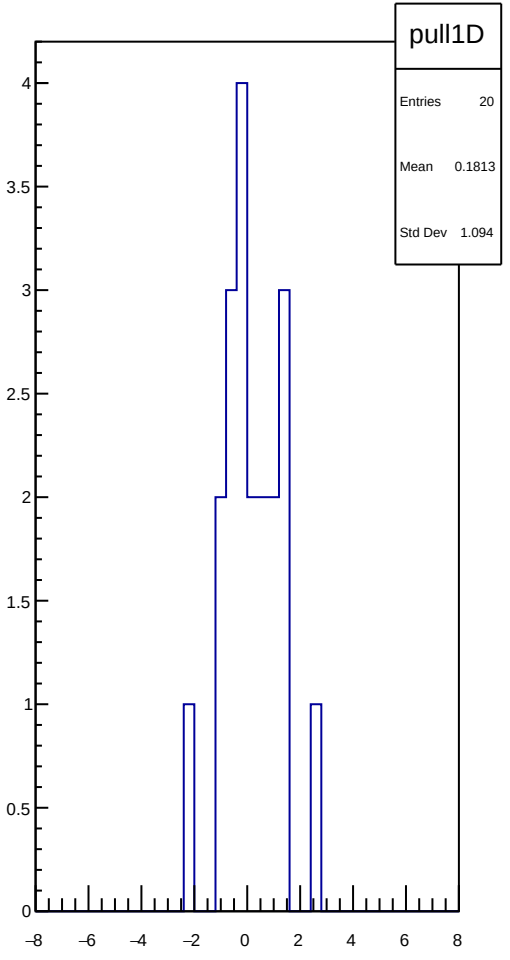

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.25e+04 / 19
p0 17.89 ± 0.02892
26
24
22
20
18
16
14
12
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

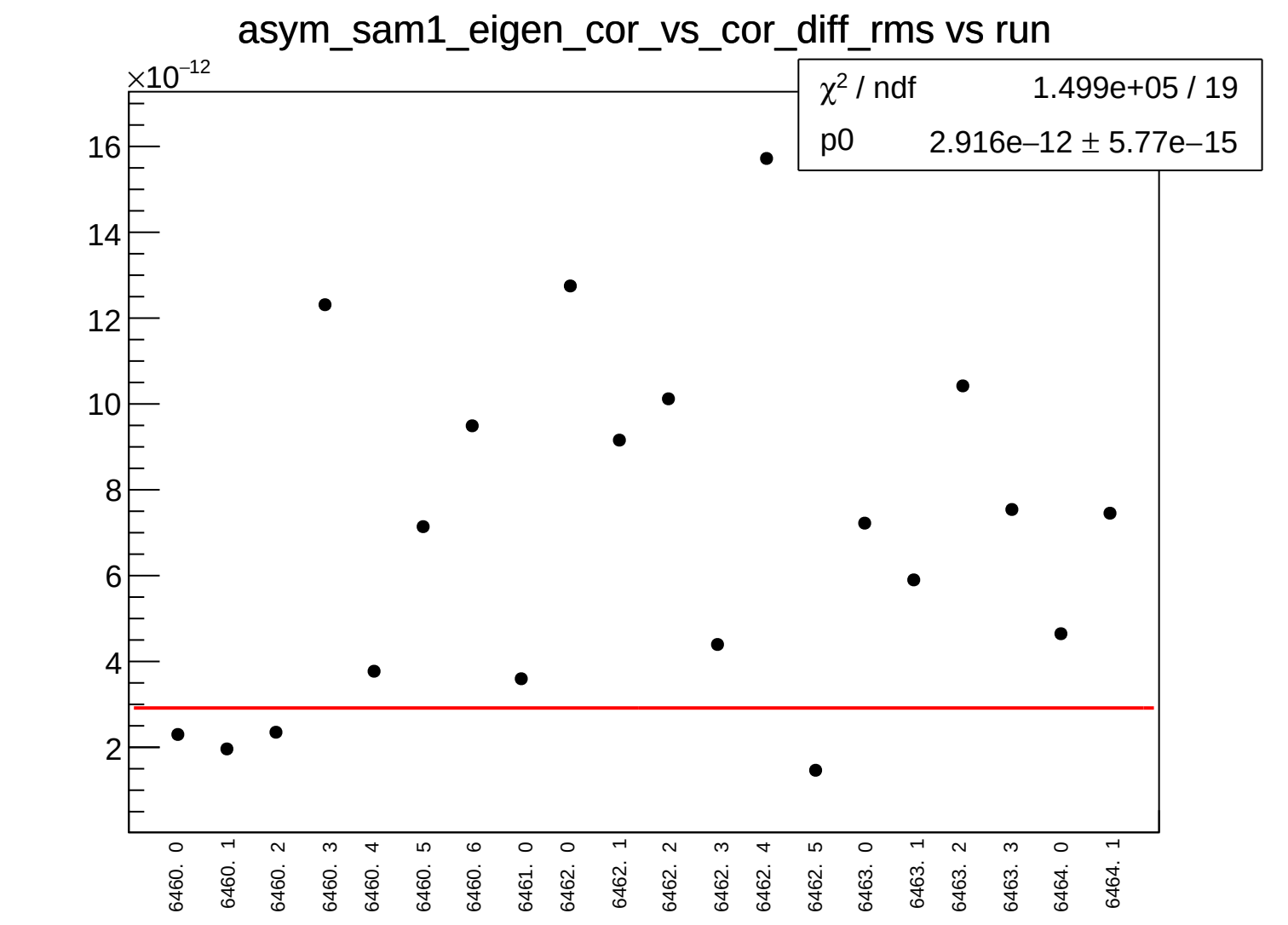

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.12 / 19
p0 0.02656 ± 0.0409
0.6
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.89
Std Dev 0
1.5
1
0.5
0
−0.5
−1

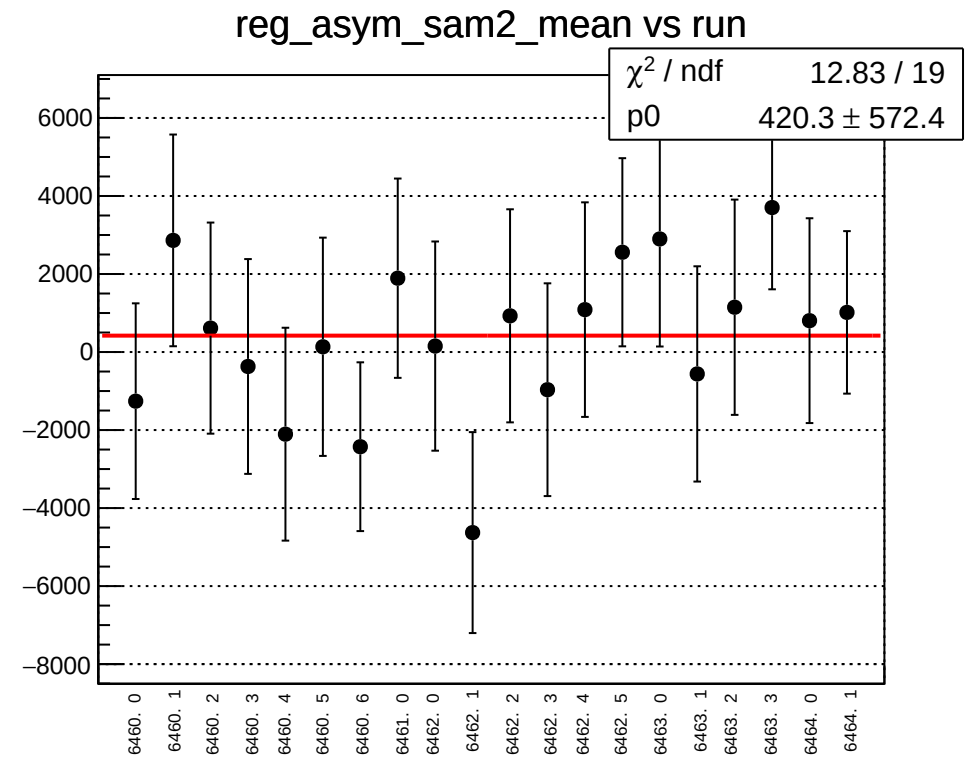

pull1D
Entries 20
Mean −0.04609
Std Dev 0.7442
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

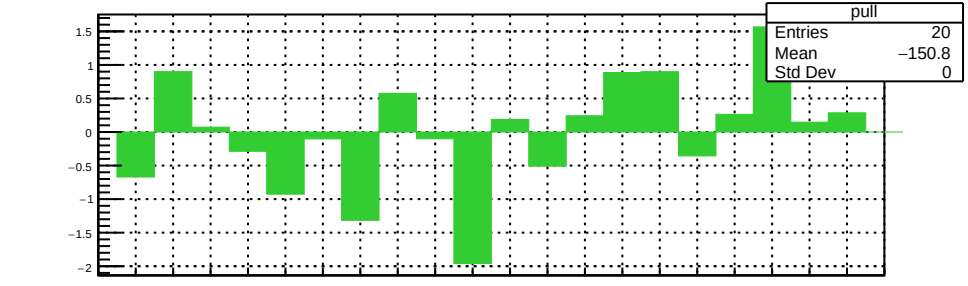

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.25e+04 / 19
p0 17.89 ± 0.02892
26
24
22
20
18
16
14
12
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

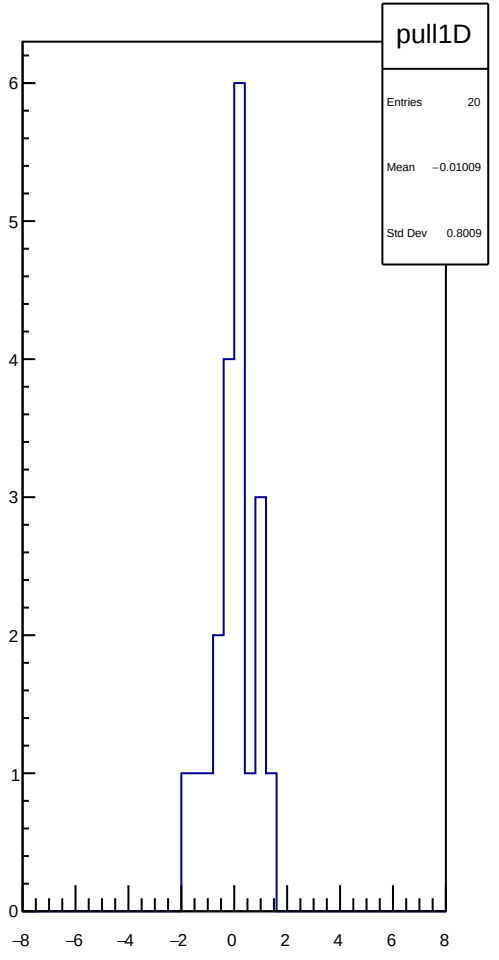

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.61 / 19
p0 4.043e−15 ± 8.16e−15
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.815
Std Dev 0
2
1
0
−1
−2

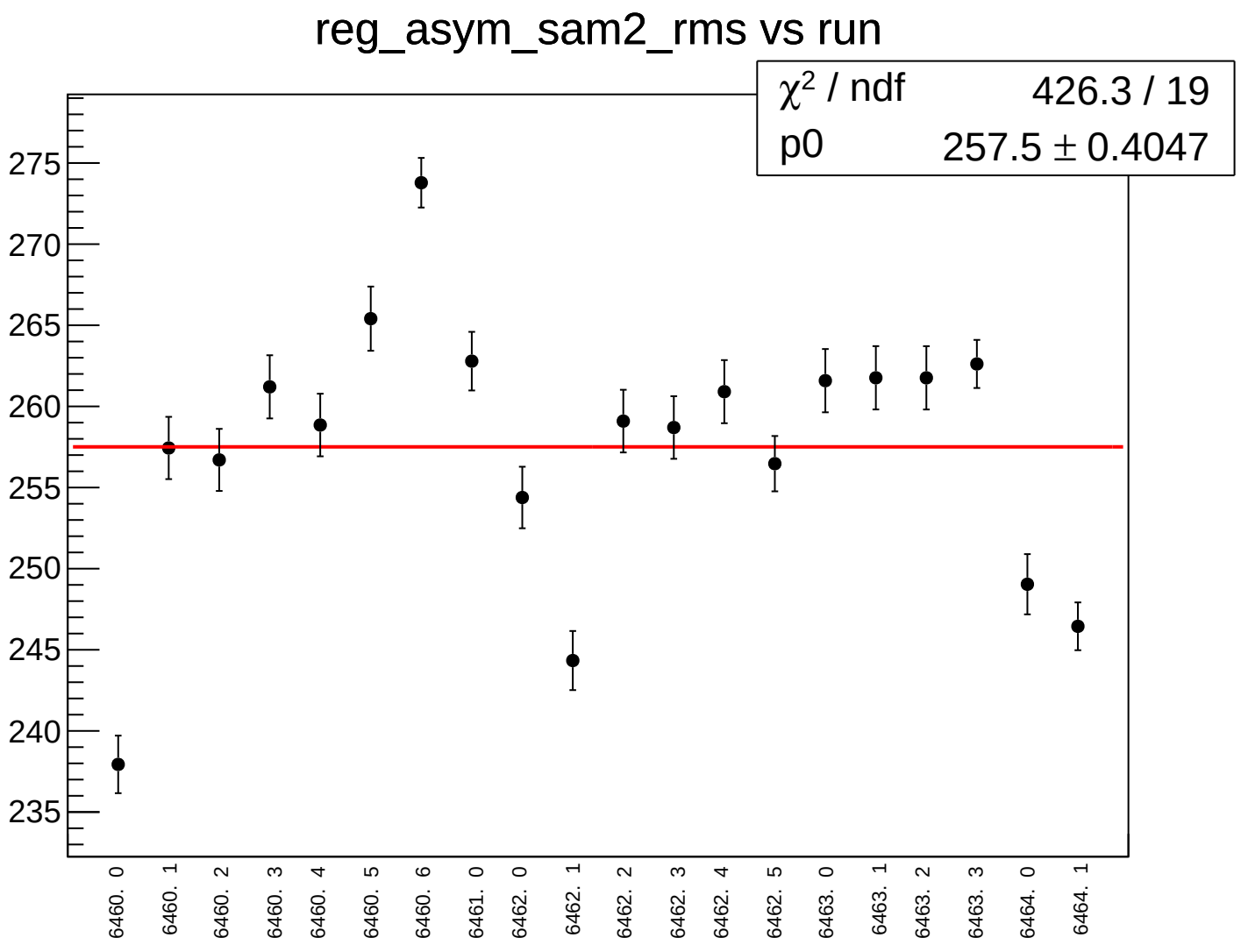

pull1D
Entries 20
Mean 0.1813
Std Dev 1.094
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

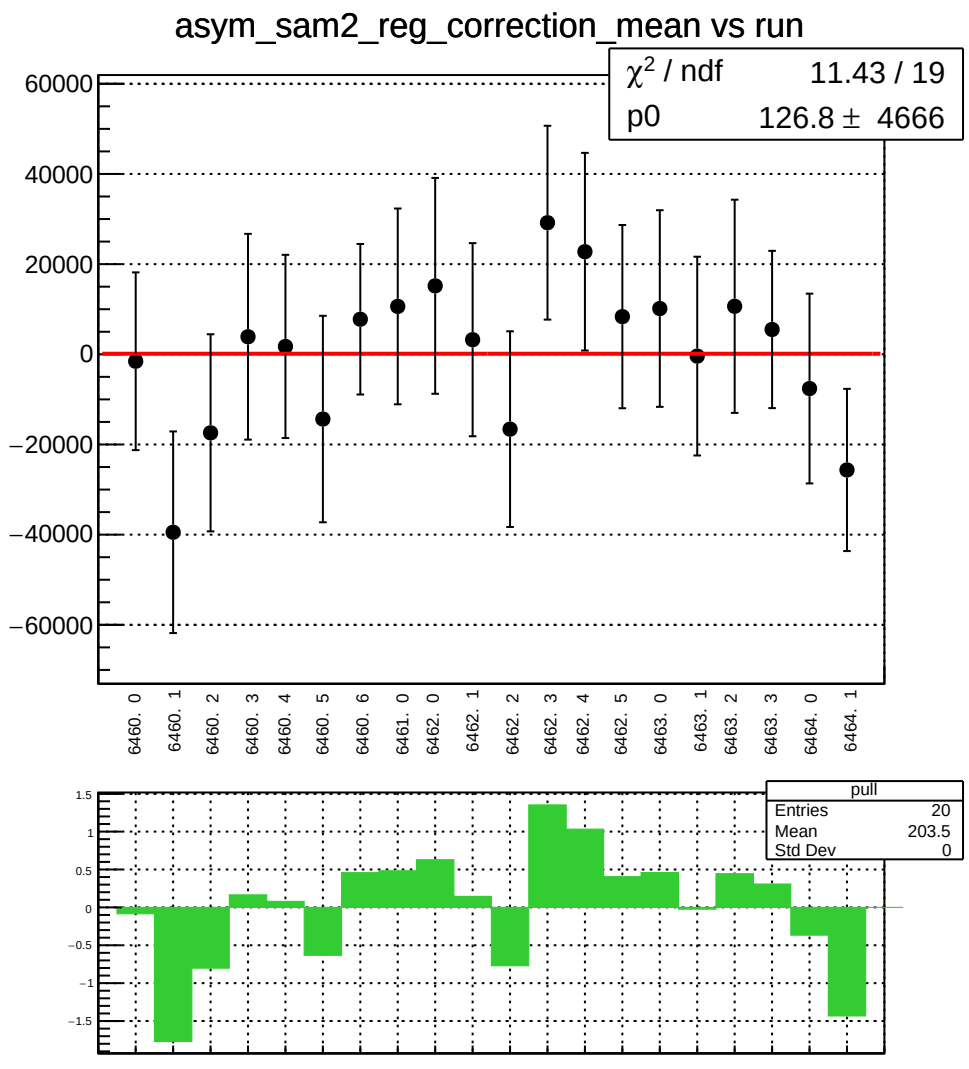

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.499e+05 / 19
p0 2.916e−12 ± 5.77e−15
16
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

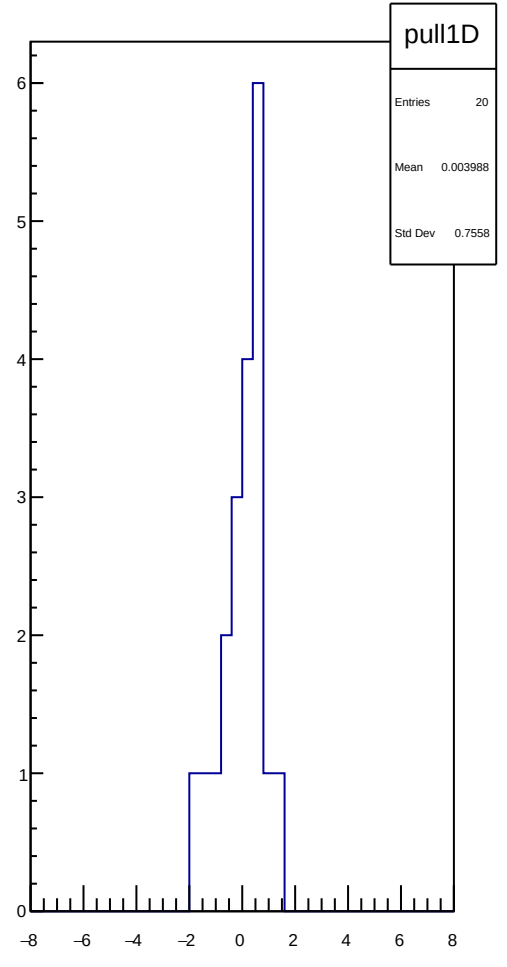

reg_asym_sam2_mean vs run
χ² / ndf 12.83 / 19
p0 420.3 ± 572.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

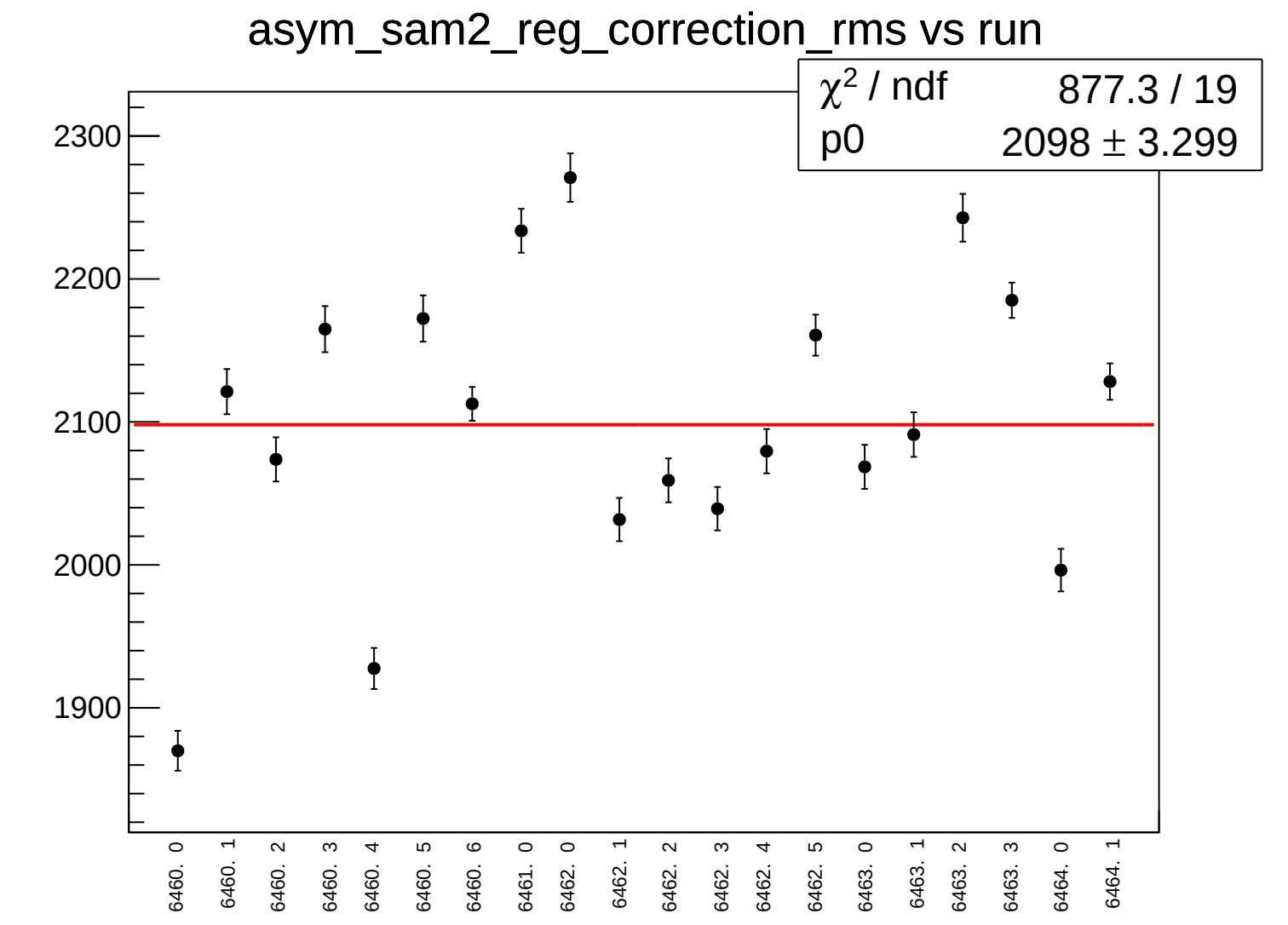

pull
Entries 20
Mean −150.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

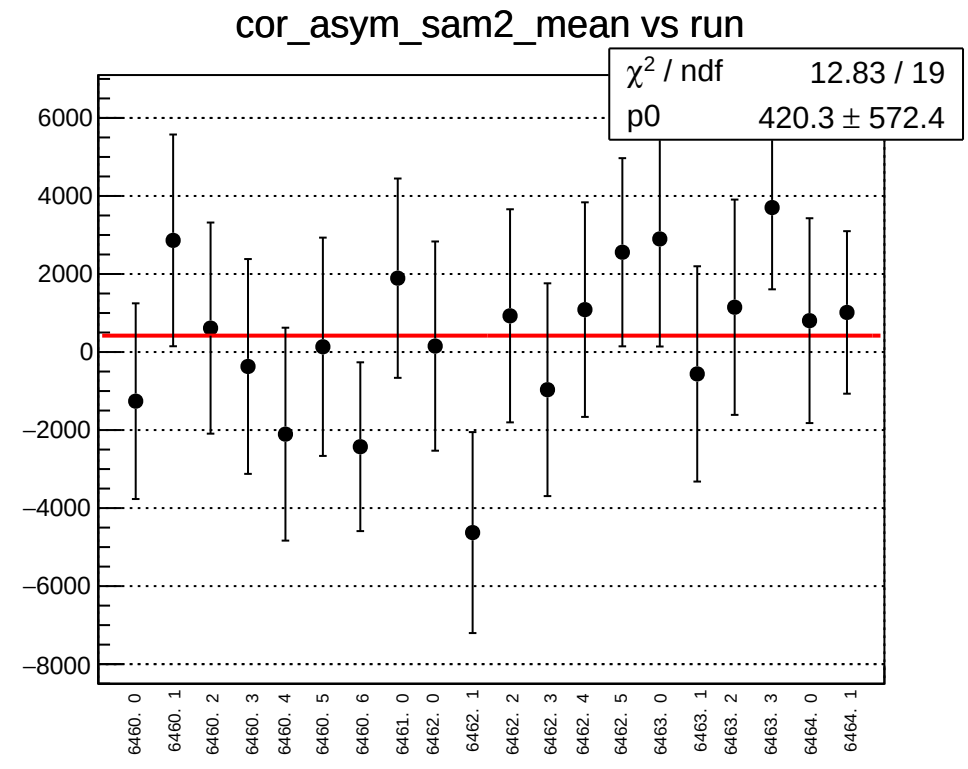

pull1D
Entries 20
Mean −0.01009
Std Dev 0.8009
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

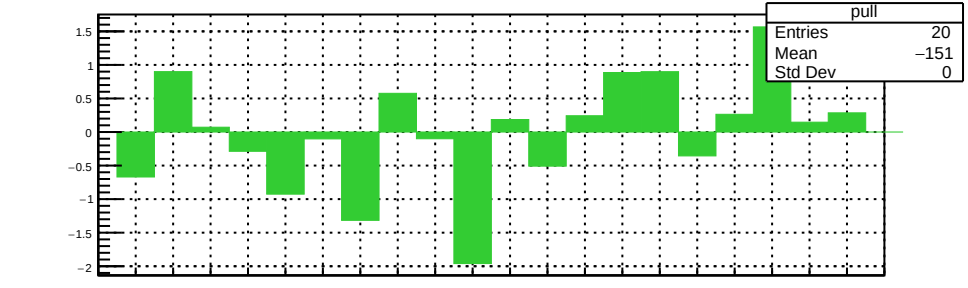

reg_asym_sam2_rms vs run
χ^2 / ndf 426.3 / 19
p0 257.5 ± 0.4047
275
270
265
260
255
250
245
240
235
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

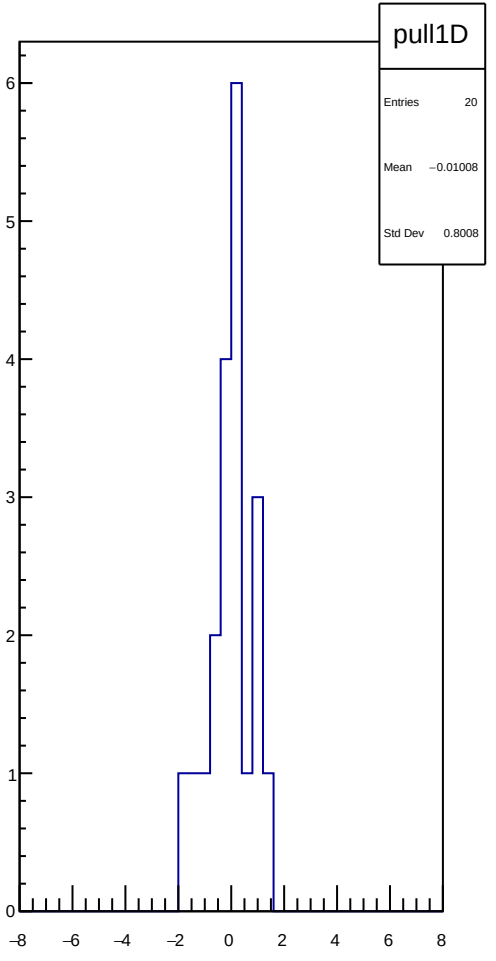

asym_sam2_reg_correction_mean vs run
χ² / ndf 11.43 / 19
p0 126.8 ± 4666
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 203.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

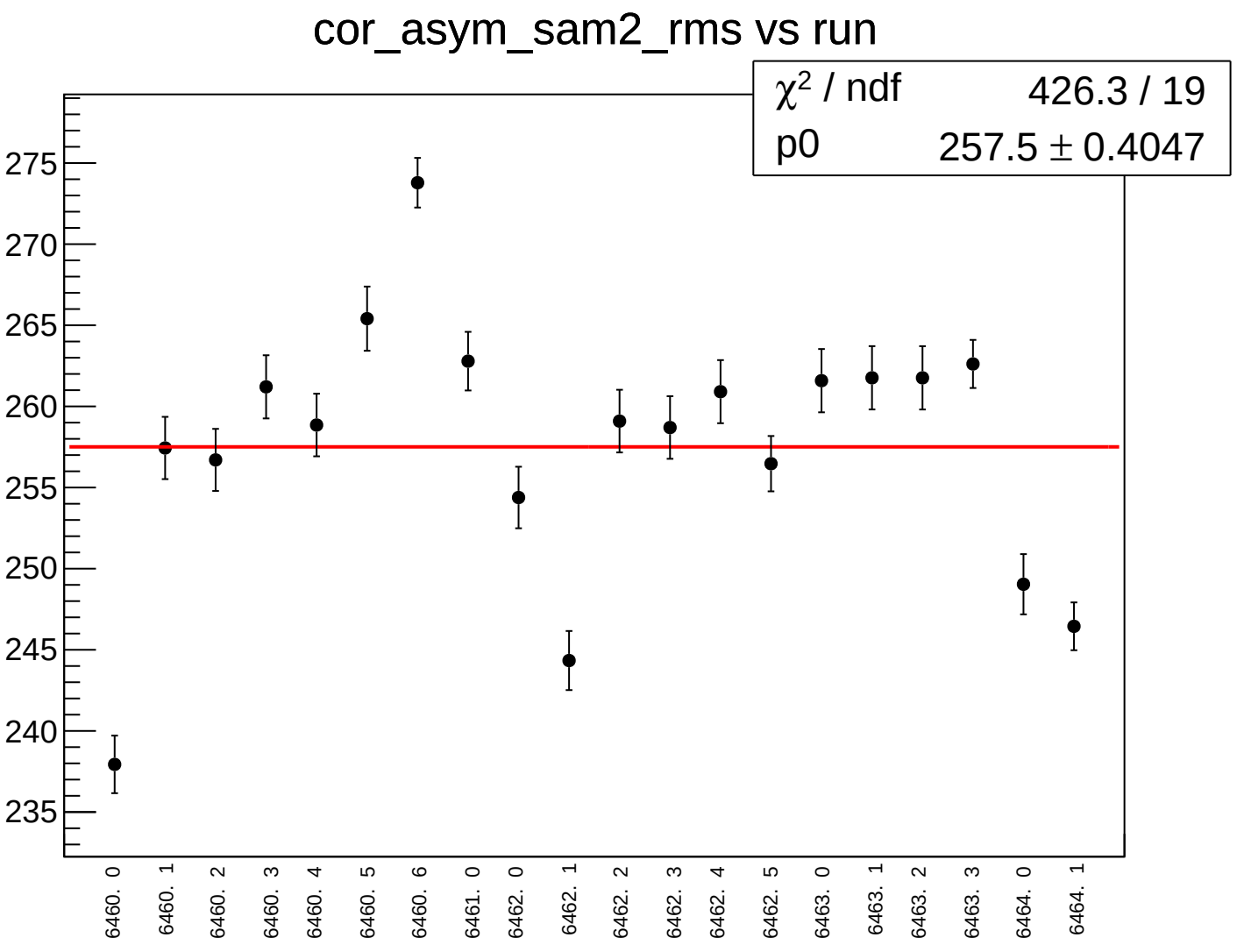

pull1D
Entries 20
Mean 0.003988
Std Dev 0.7558
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

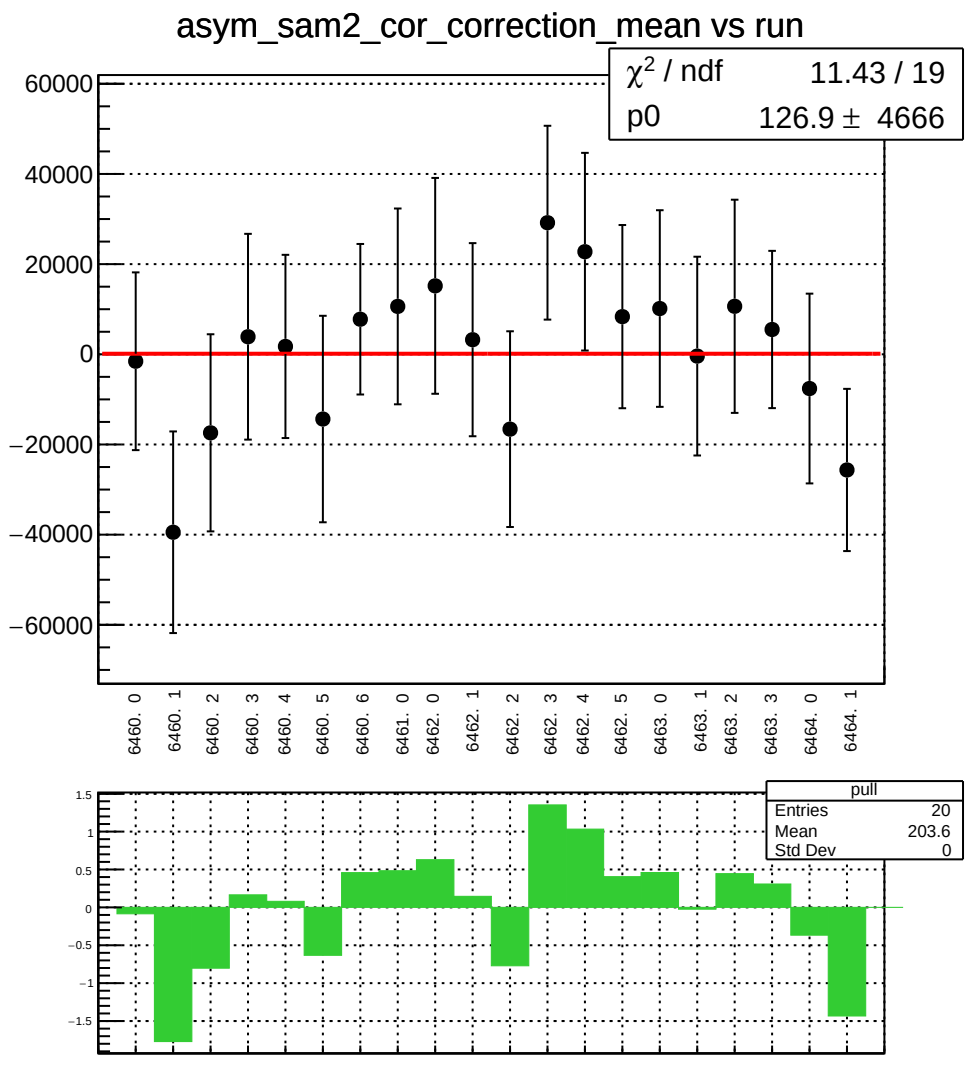

asym_sam2_reg_correction_rms vs run
χ² / ndf 877.3 / 19
p0 2098 ± 3.299
2300
2200
2100
2000
1900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

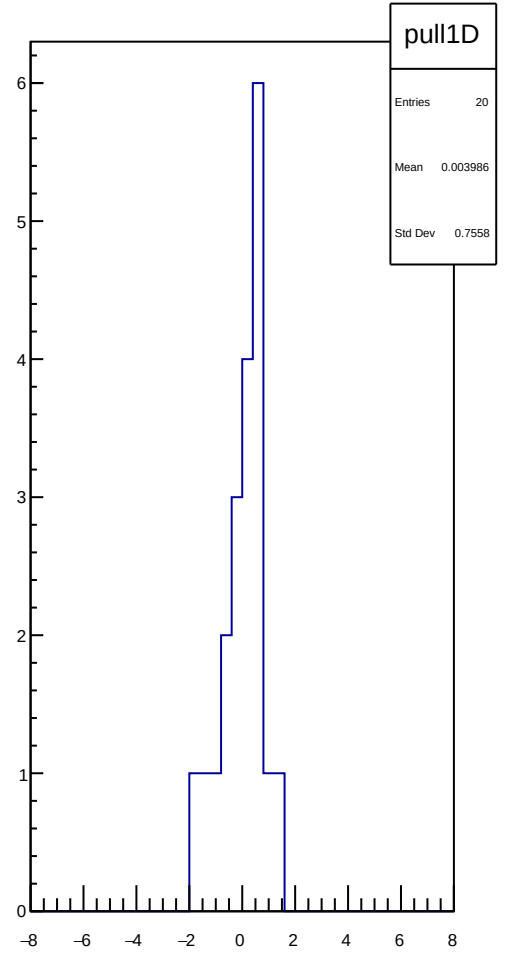

cor_asym_sam2_mean vs run
χ² / ndf 12.83 / 19
p0 420.3 ± 572.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

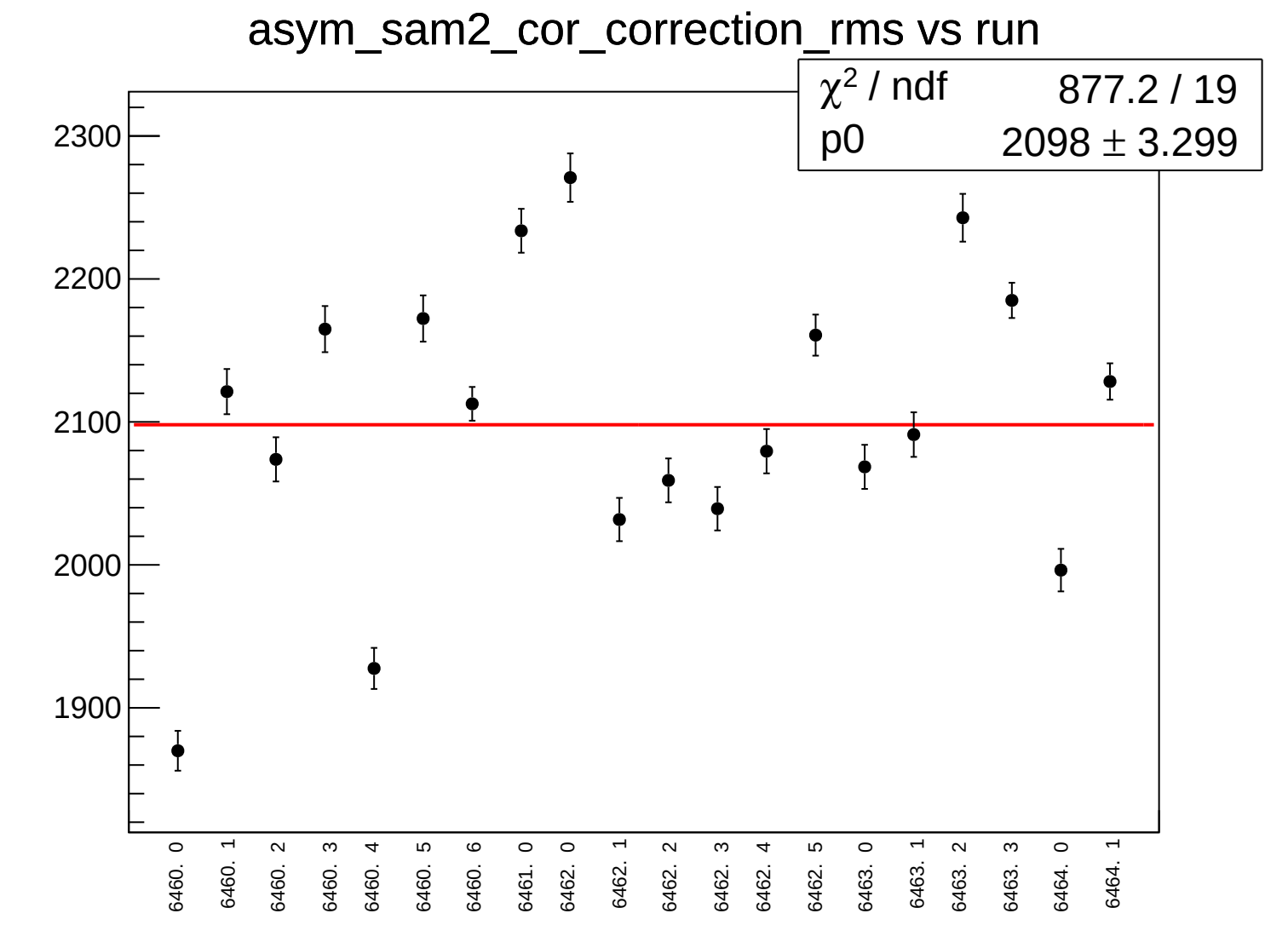

pull
Entries 20
Mean −151
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

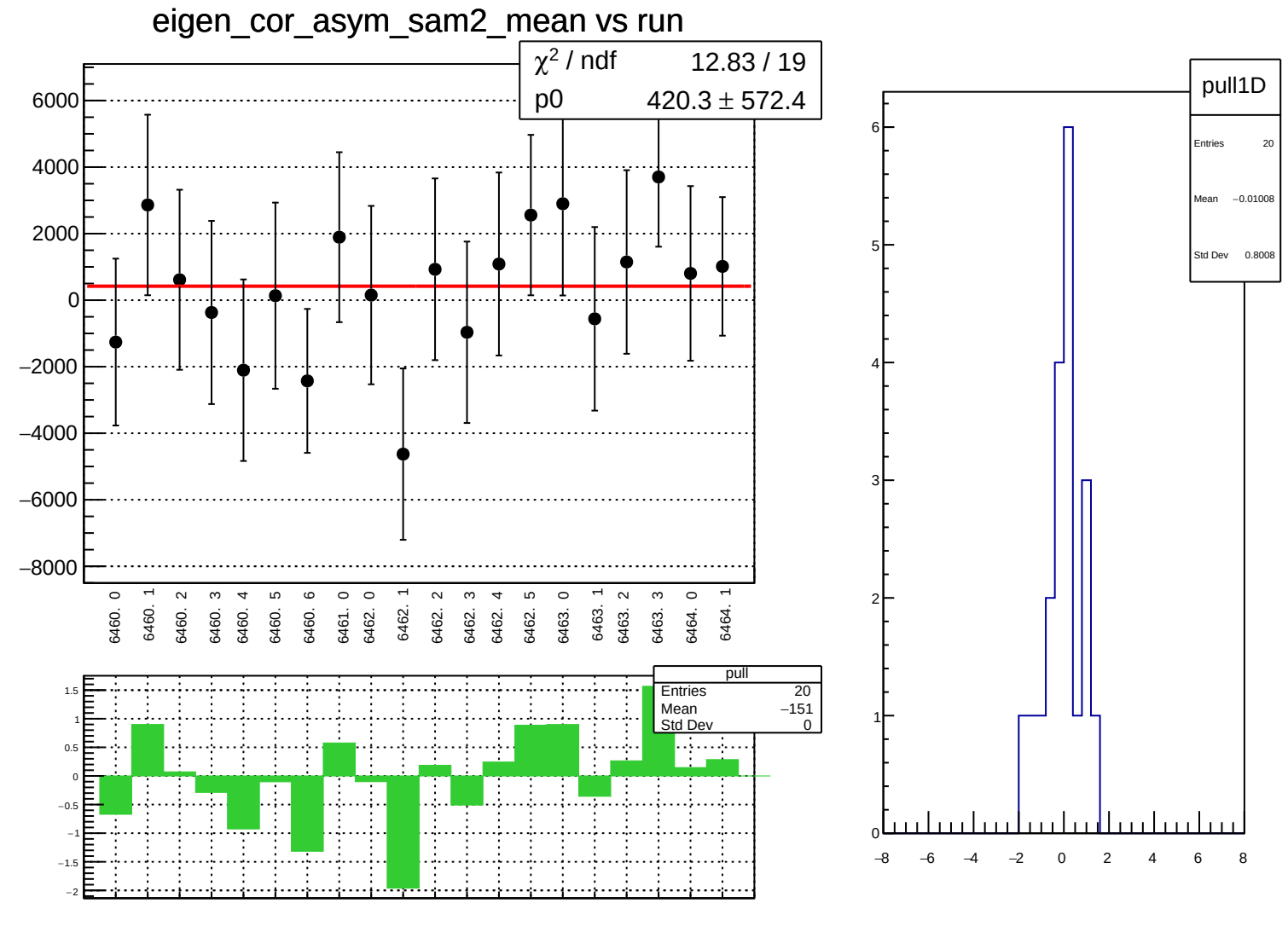

pull1D
Entries 20
Mean −0.01008
Std Dev 0.8008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

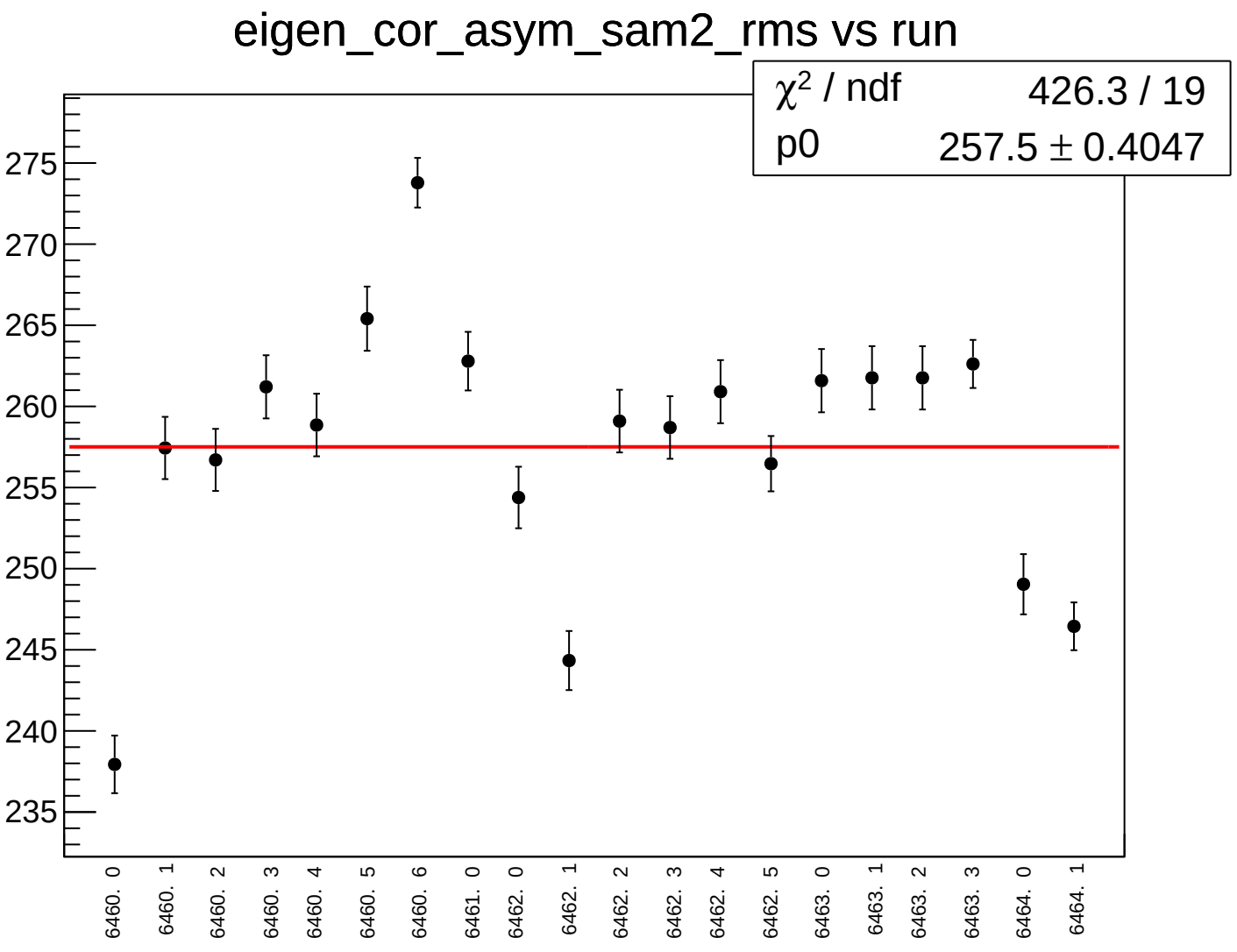

cor_asym_sam2_rms vs run
χ² / ndf 426.3 / 19
p0 257.5 ± 0.4047
275
270
265
260
255
250
245
240
235
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

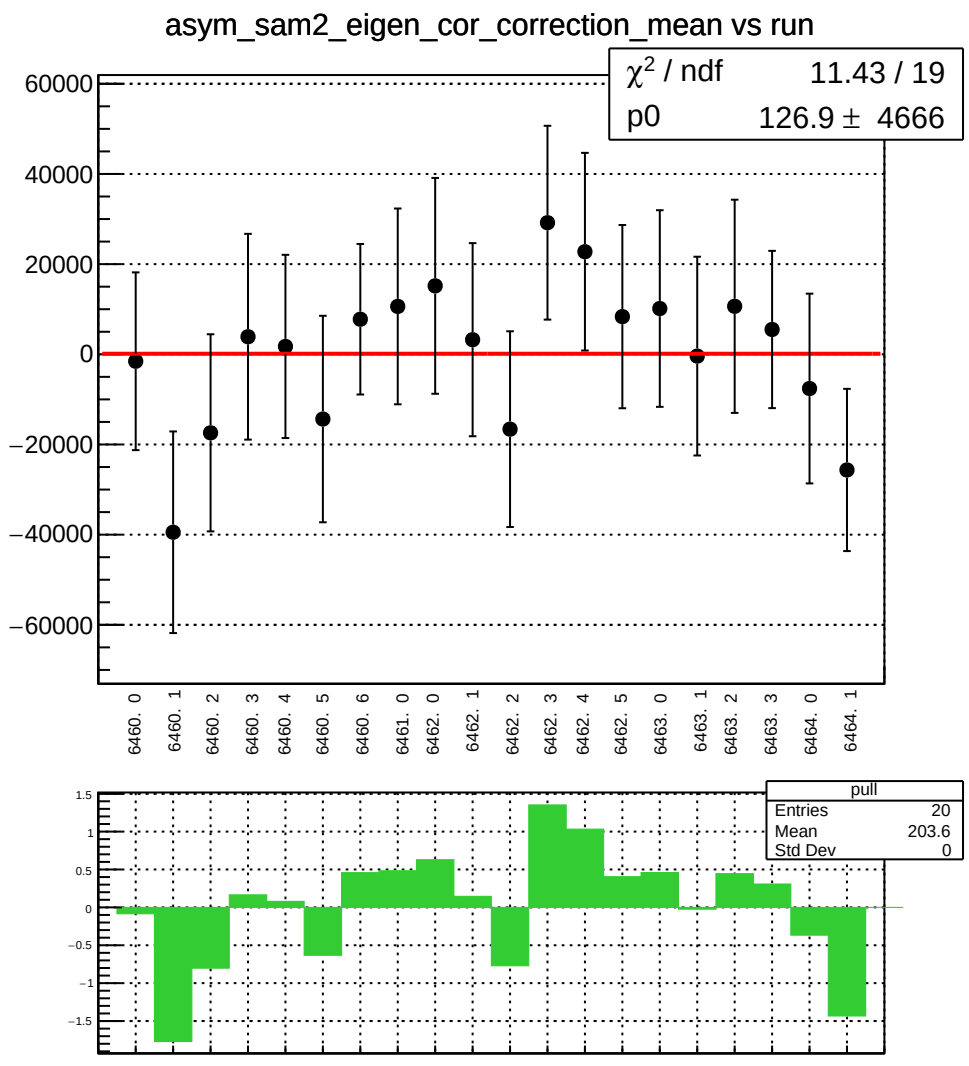

asym_sam2_cor_correction_mean vs run
χ² / ndf 11.43 / 19
p0 126.9 ± 4666
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 203.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

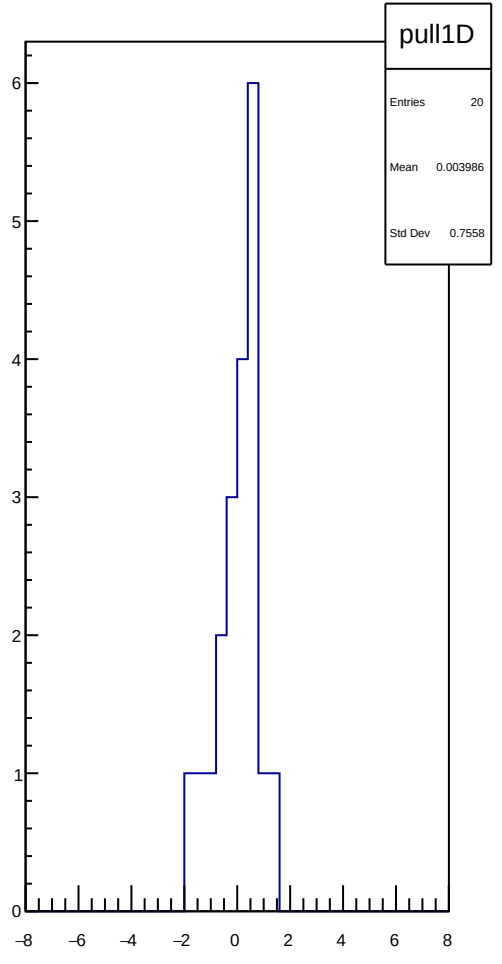

pull1D
Entries 20
Mean 0.003986
Std Dev 0.7558
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

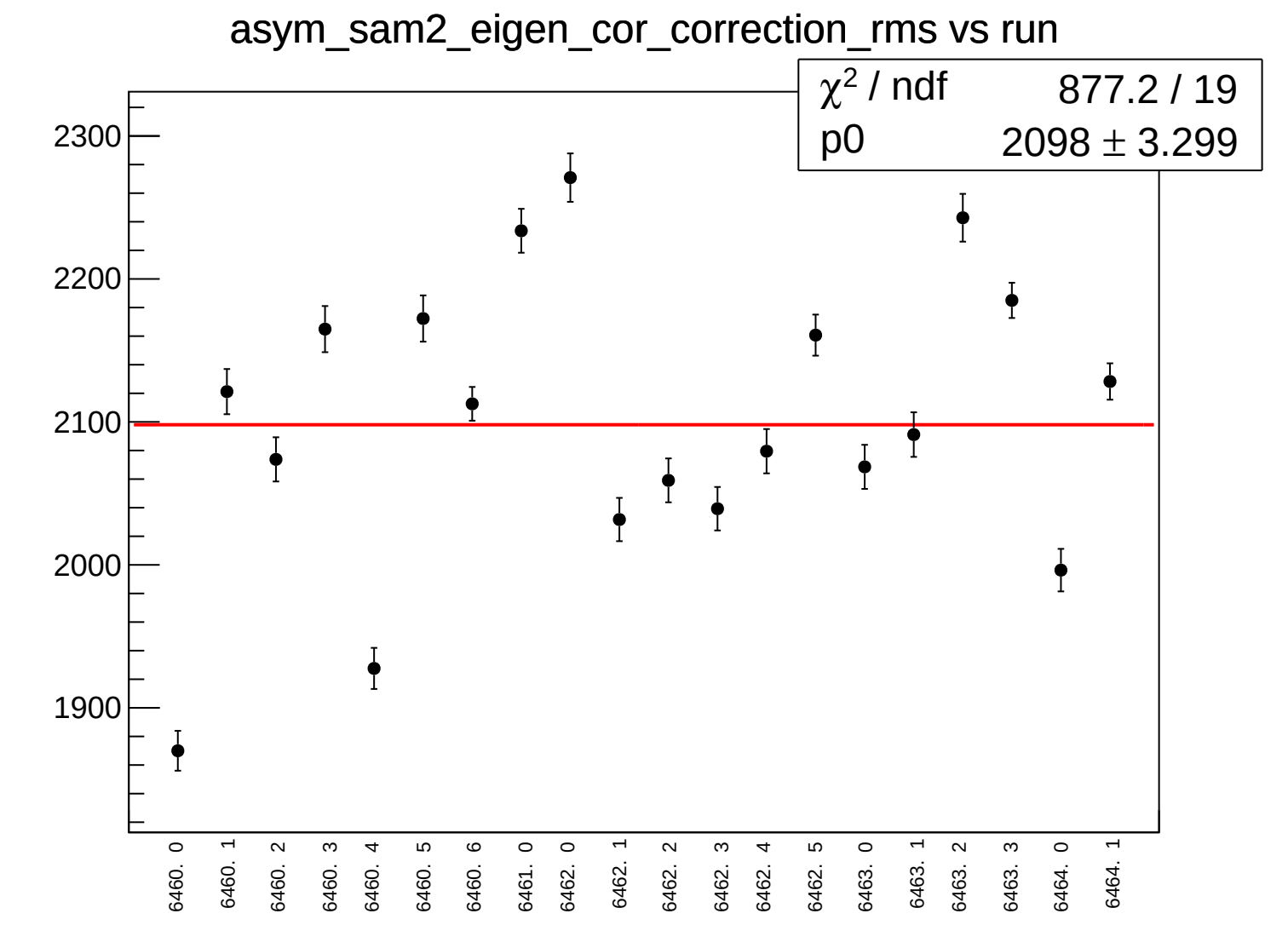

asym_sam2_cor_correction_rms vs run
χ² / ndf 877.2 / 19
p0 2098 ± 3.299
2300
2200
2100
2000
1900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

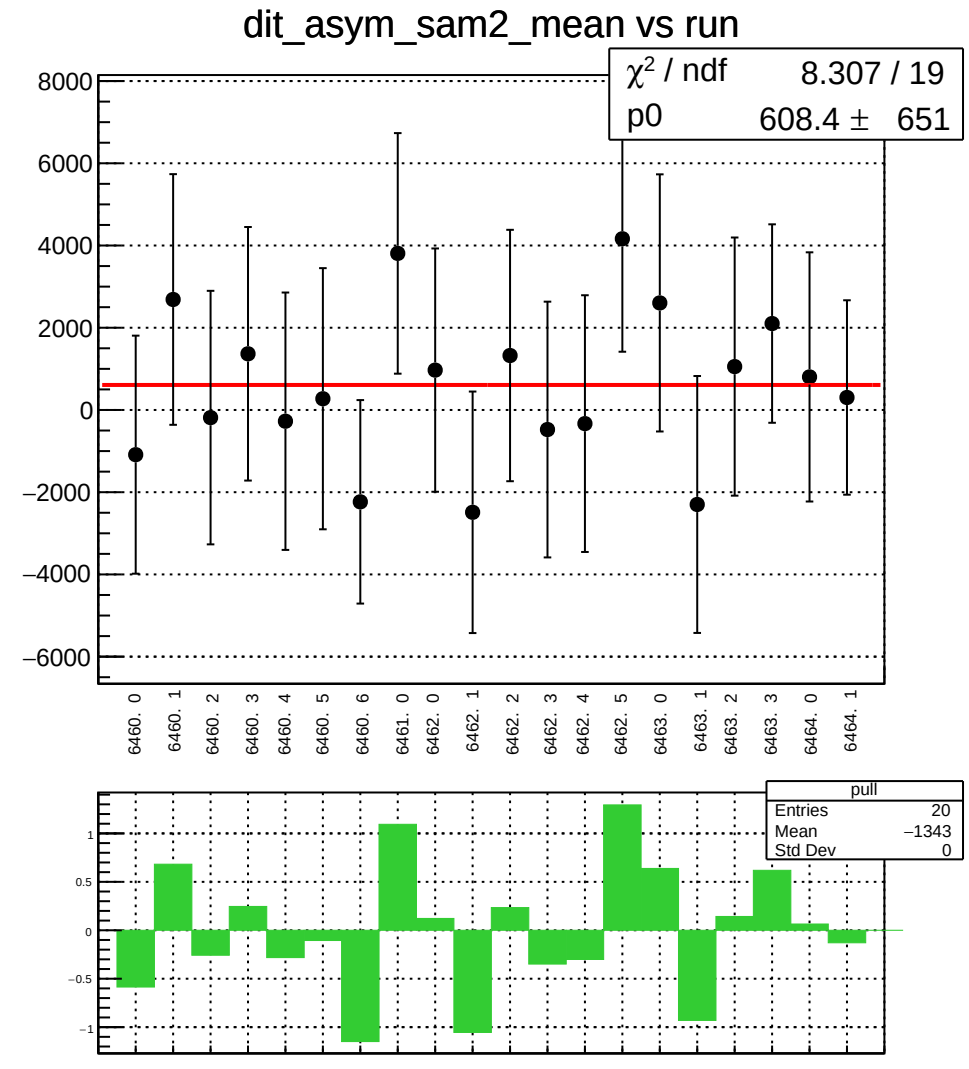

eigen_cor_asym_sam2_mean vs run
χ² / ndf 12.83 / 19
p0 420.3 ± 572.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −151
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.01008
Std Dev 0.8008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

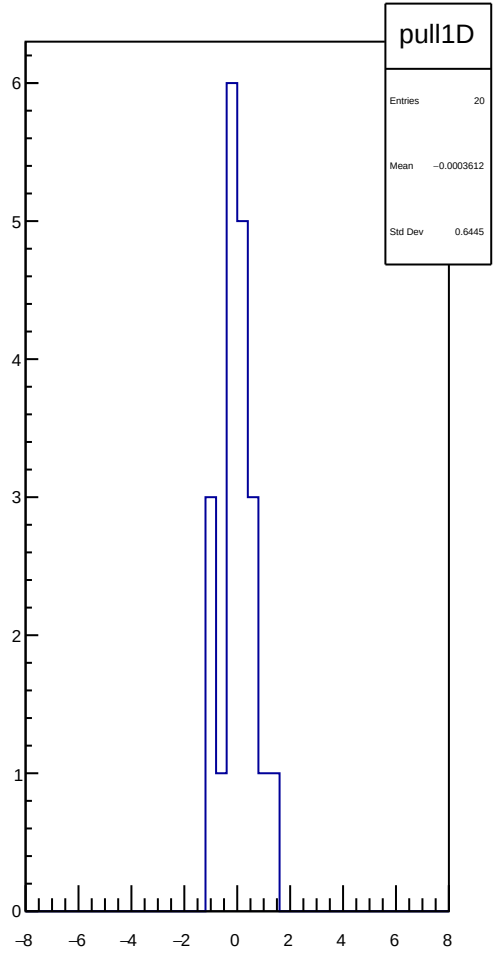

eigen_cor_asym_sam2_rms vs run
χ² / ndf 426.3 / 19
p0 257.5 ± 0.4047
275
270
265
260
255
250
245
240
235
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

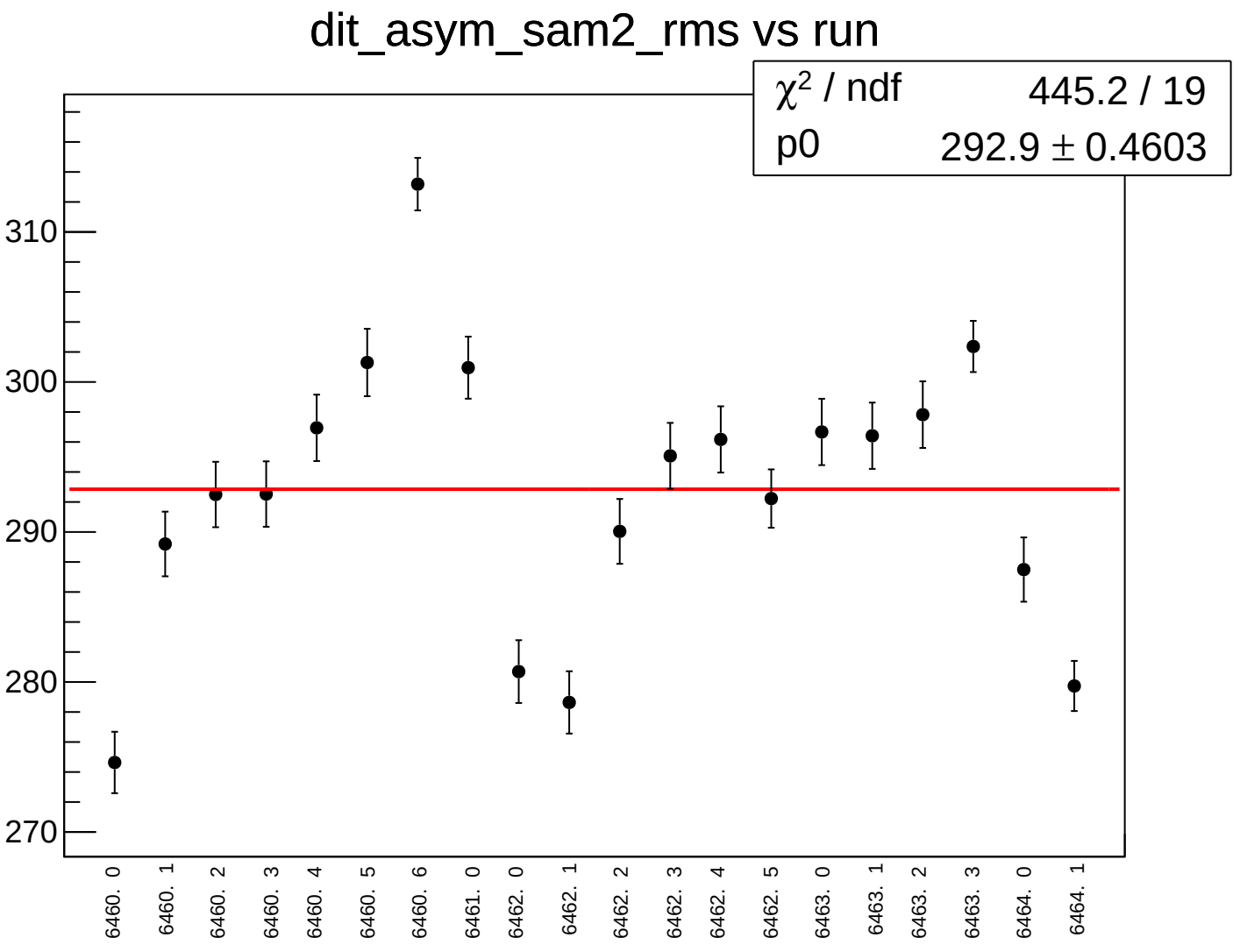

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 11.43 / 19
p0 126.9 ± 4666
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 203.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

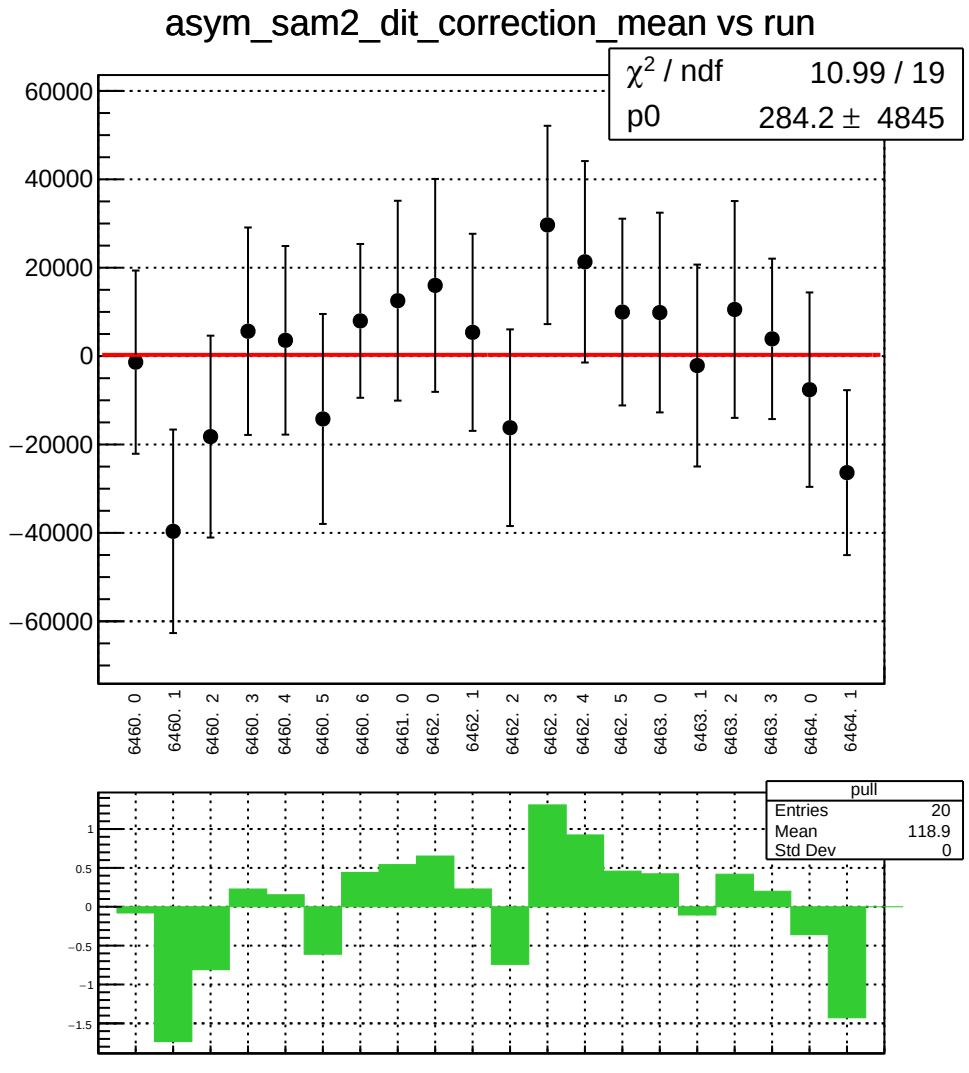

pull1D
Entries 20
Mean 0.003986
Std Dev 0.7558
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

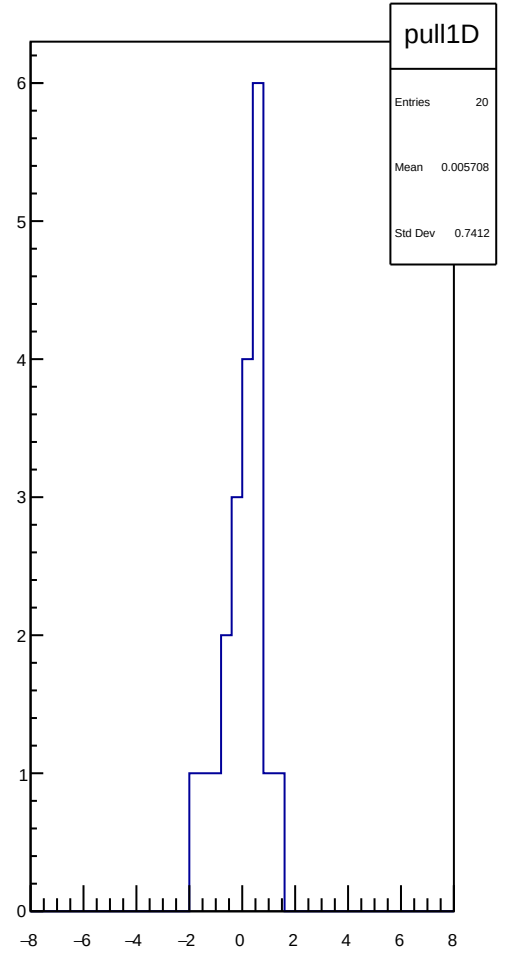

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 877.2 / 19
p0 2098 ± 3.299
2300
2200
2100
2000
1900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

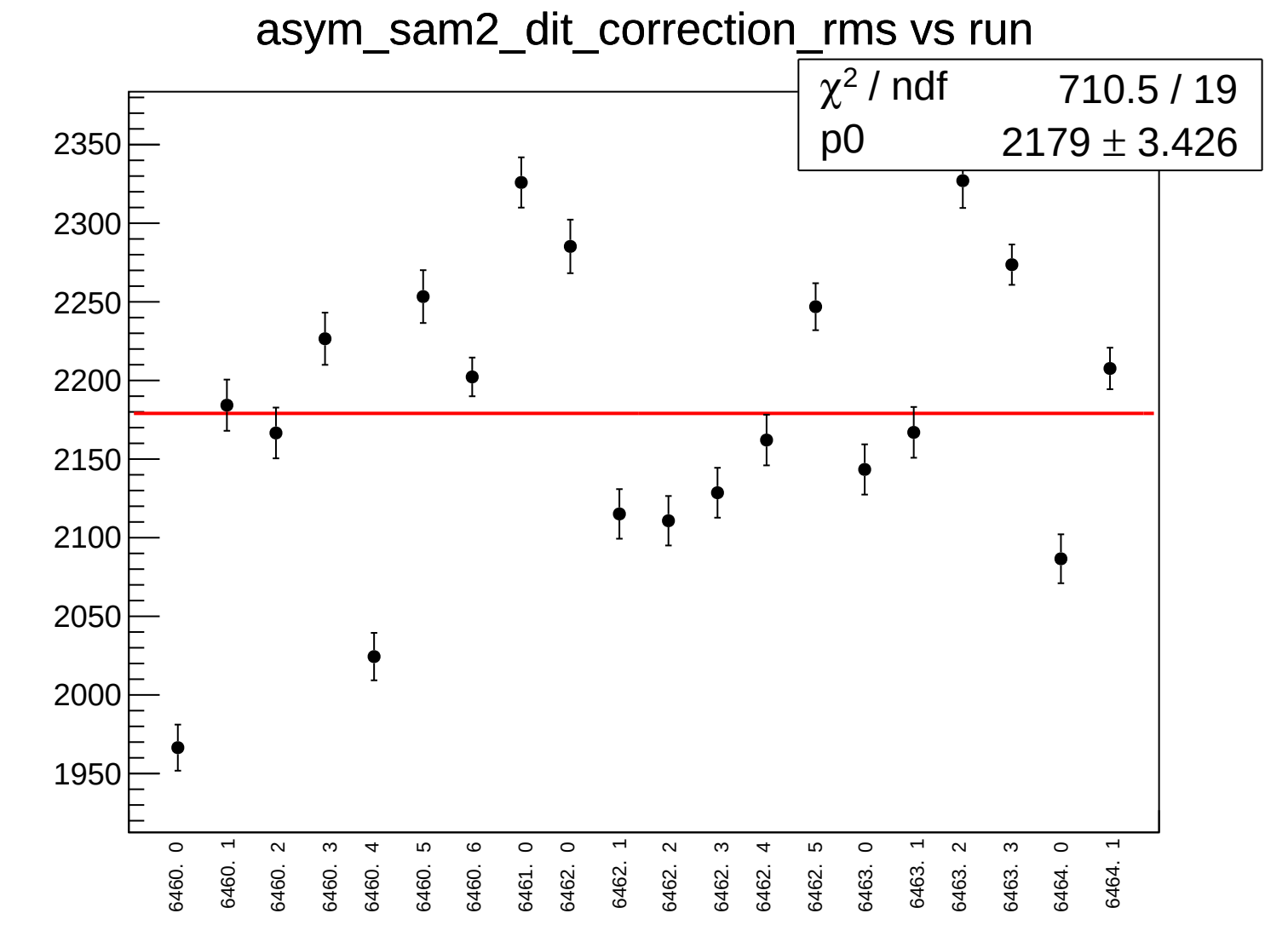

dit_asym_sam2_mean vs run
χ² / ndf 8.307 / 19
p0 608.4 ± 651
8000
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1343
Std Dev 0
1
0.5
0
−0.5
−1

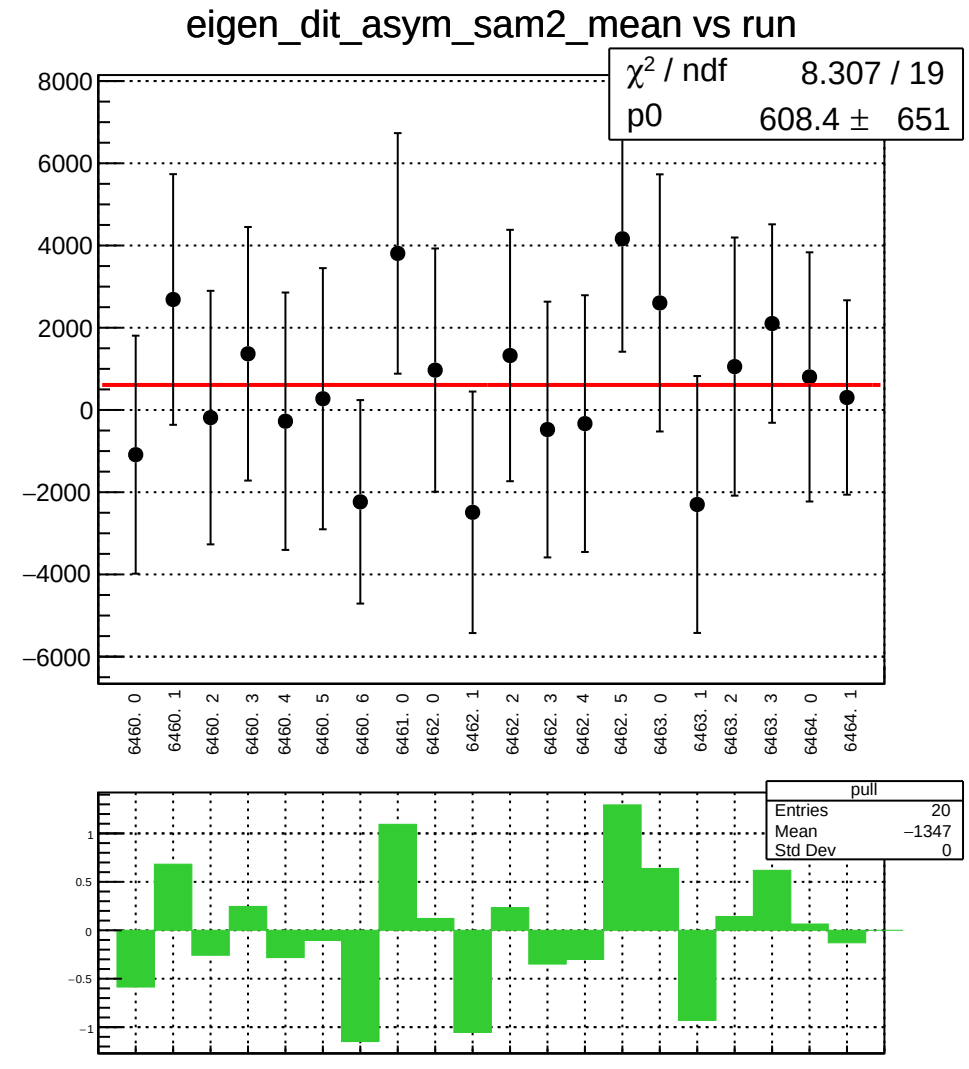

pull1D
Entries 20
Mean −0.0003612
Std Dev 0.6445
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

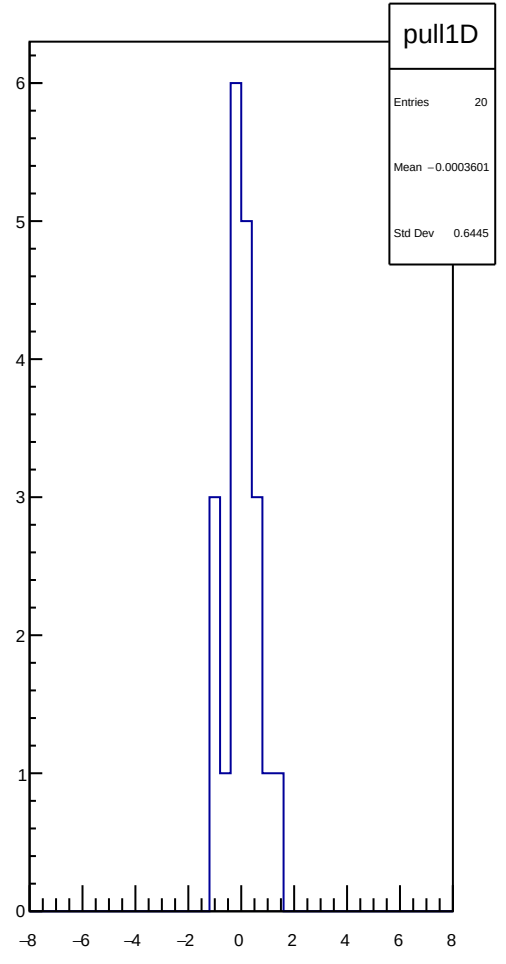

dit_asym_sam2_rms vs run
χ² / ndf 445.2 / 19
p0 292.9 ± 0.4603
310
300
290
280
270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

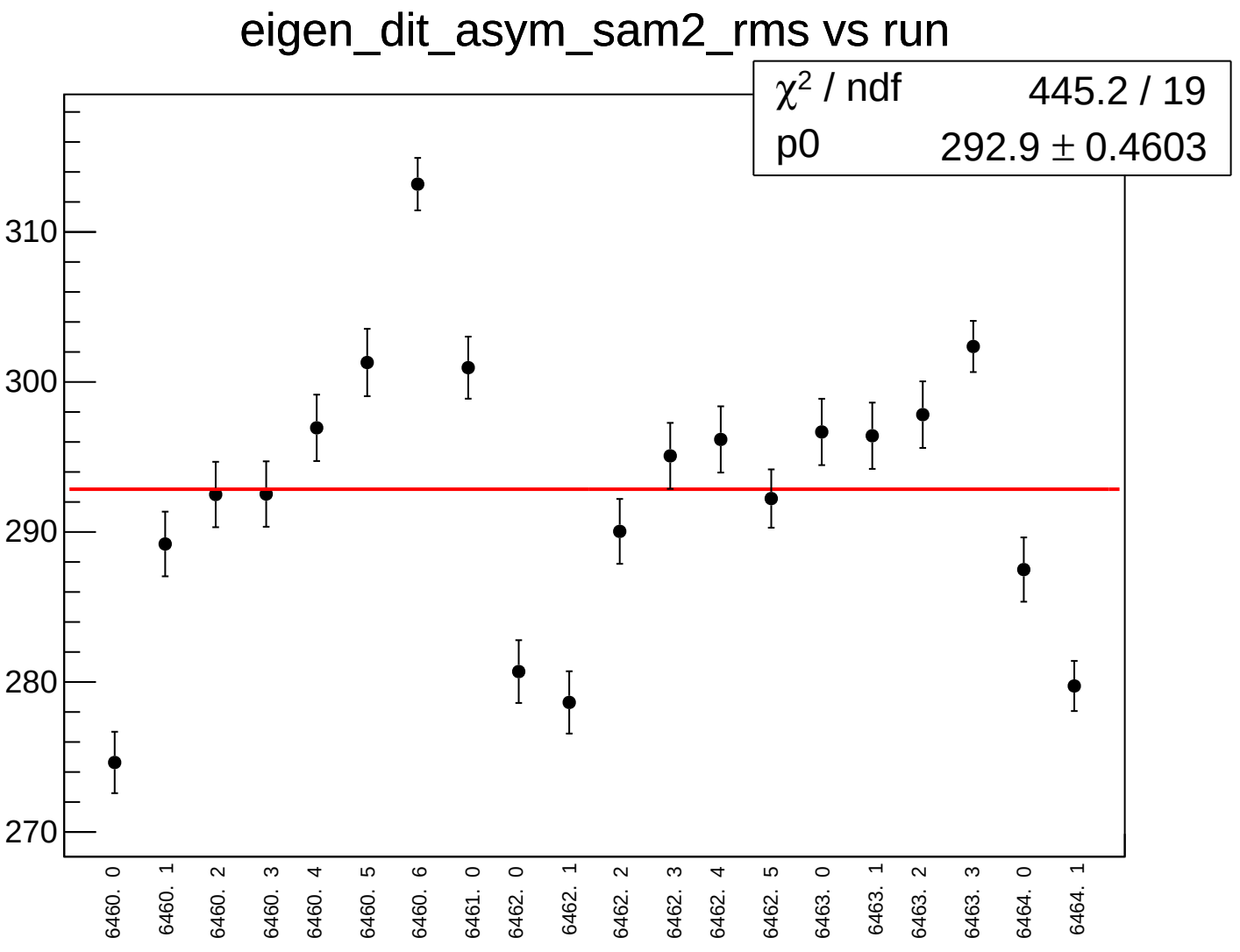

asym_sam2_dit_correction_mean vs run
χ² / ndf 10.99 / 19
p0 284.2 ± 4845
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 118.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

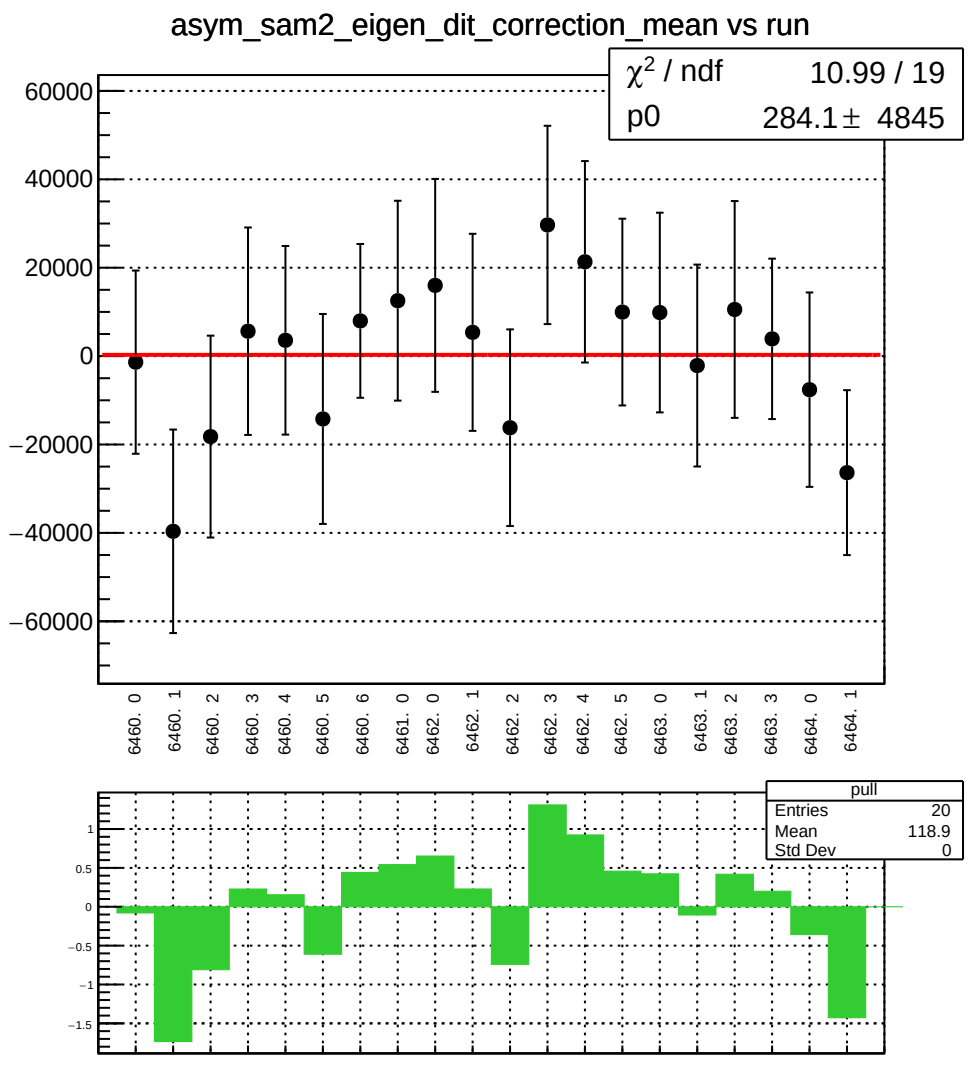

pull1D
Entries 20
Mean 0.005708
Std Dev 0.7412
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

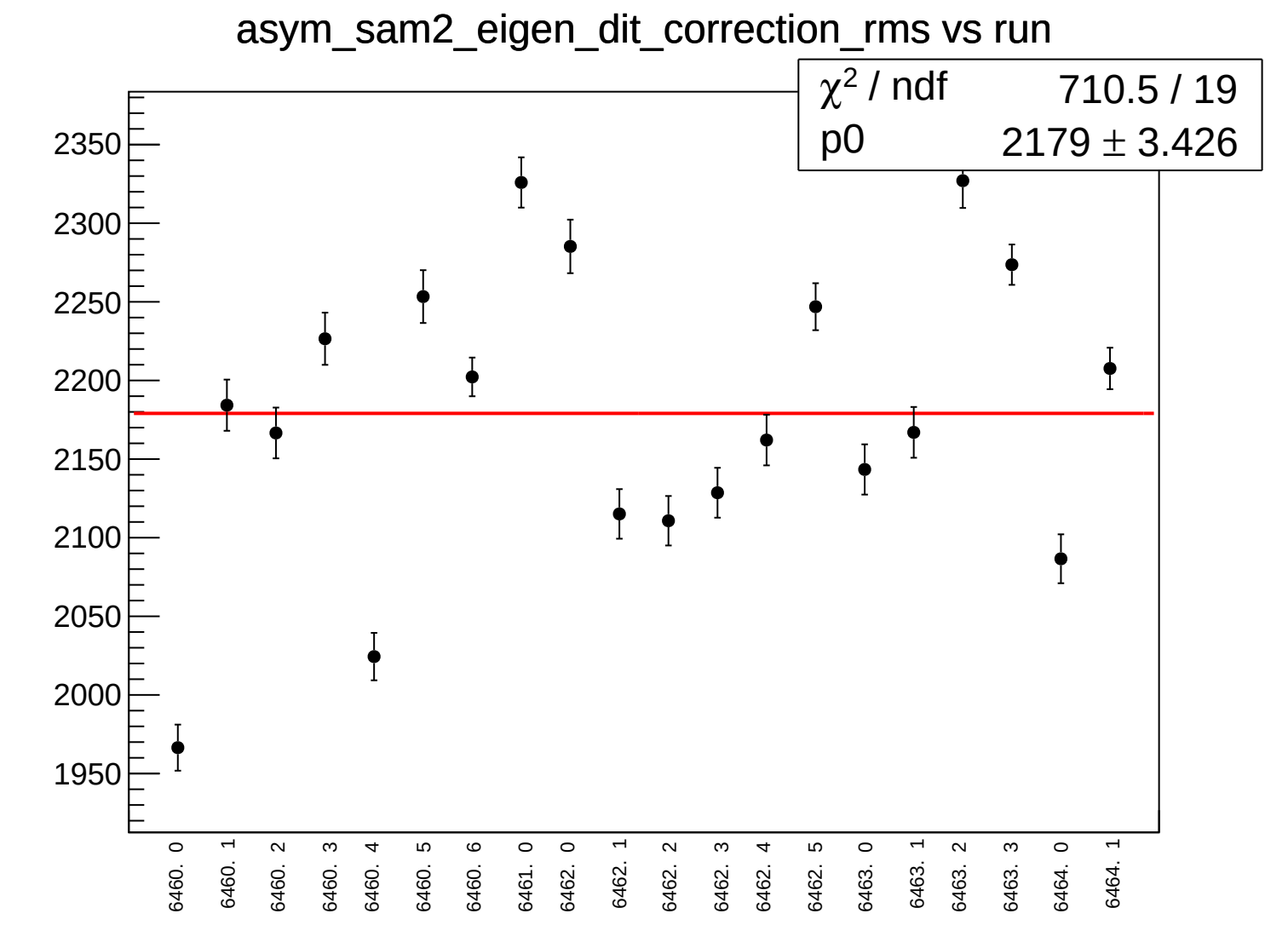

asym_sam2_dit_correction_rms vs run
χ² / ndf 710.5 / 19
p0 2179 ± 3.426
2350
2300
2250
2200
2150
2100
2050
2000
1950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

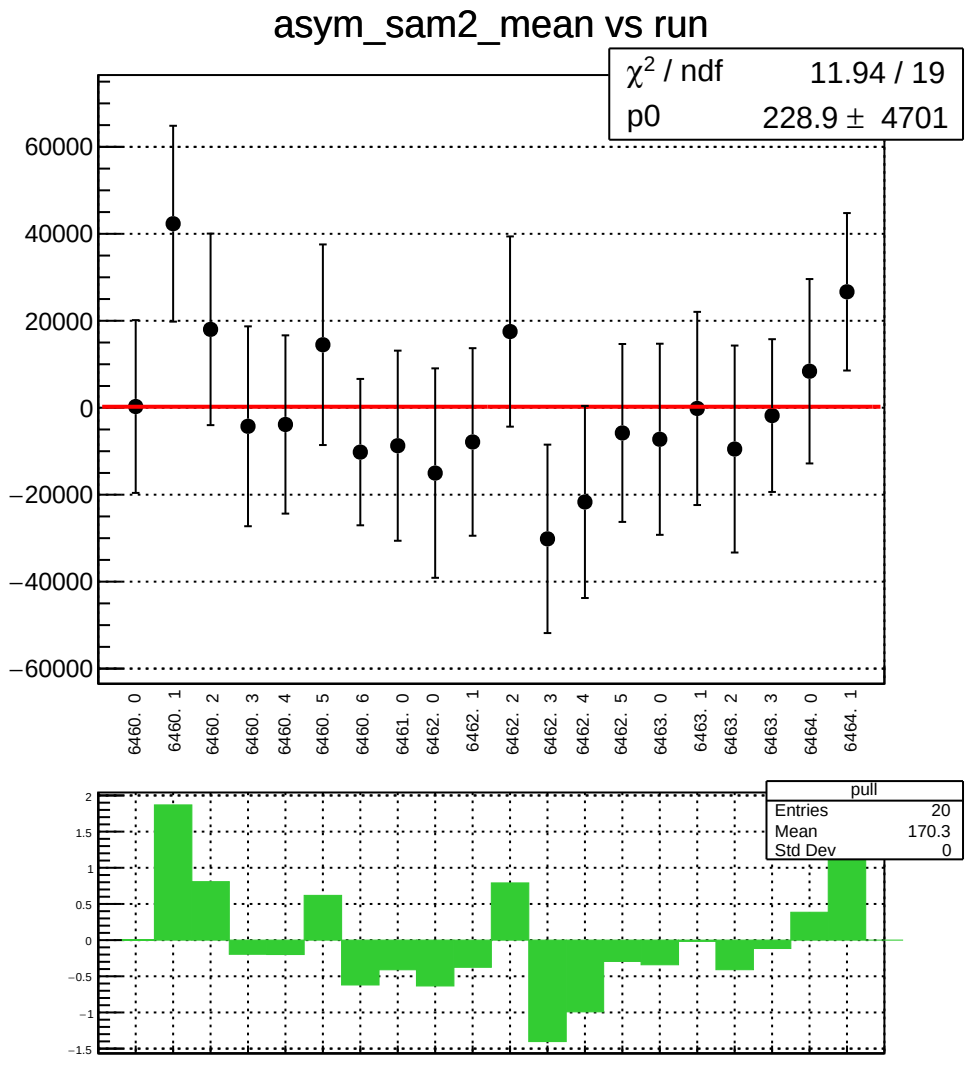

eigen_dit_asym_sam2_mean vs run
χ² / ndf 8.307 / 19
p0 608.4 ± 651
8000
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1347
Std Dev 0
1
0.5
0
−0.5
−1

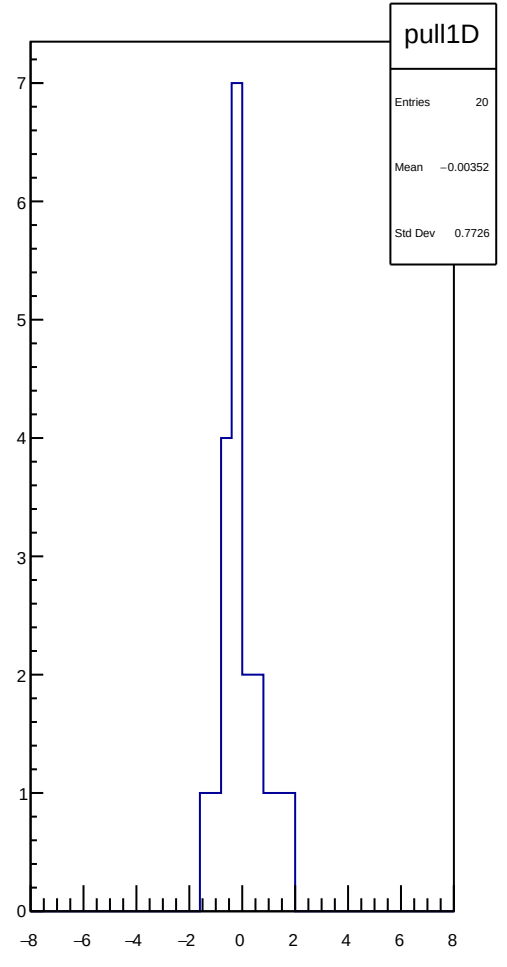

pull1D
Entries 20
Mean −0.0003601
Std Dev 0.6445
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

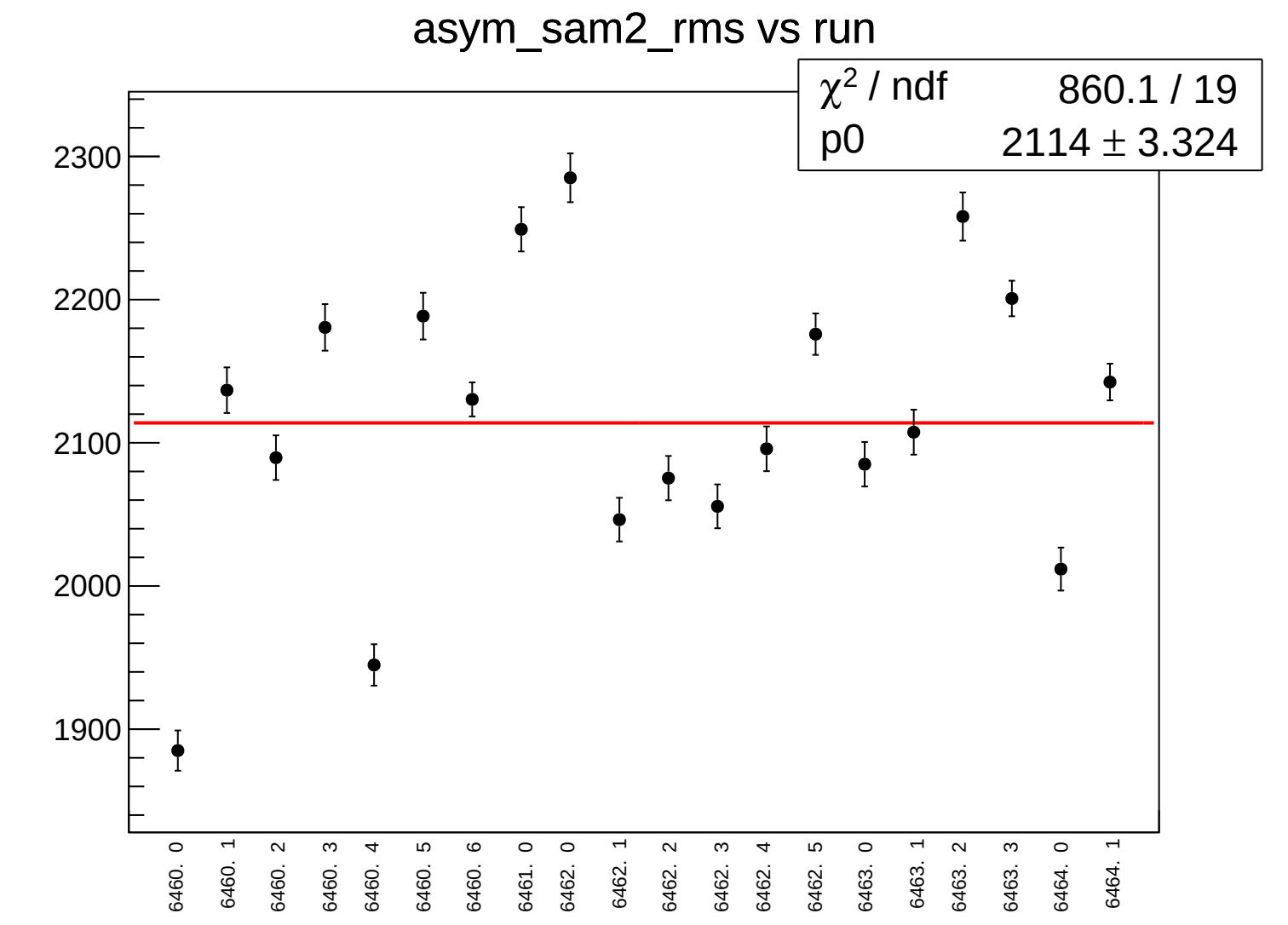

eigen_dit_asym_sam2_rms vs run
χ² / ndf 445.2 / 19
p0 292.9 ± 0.4603
310
300
290
280
270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

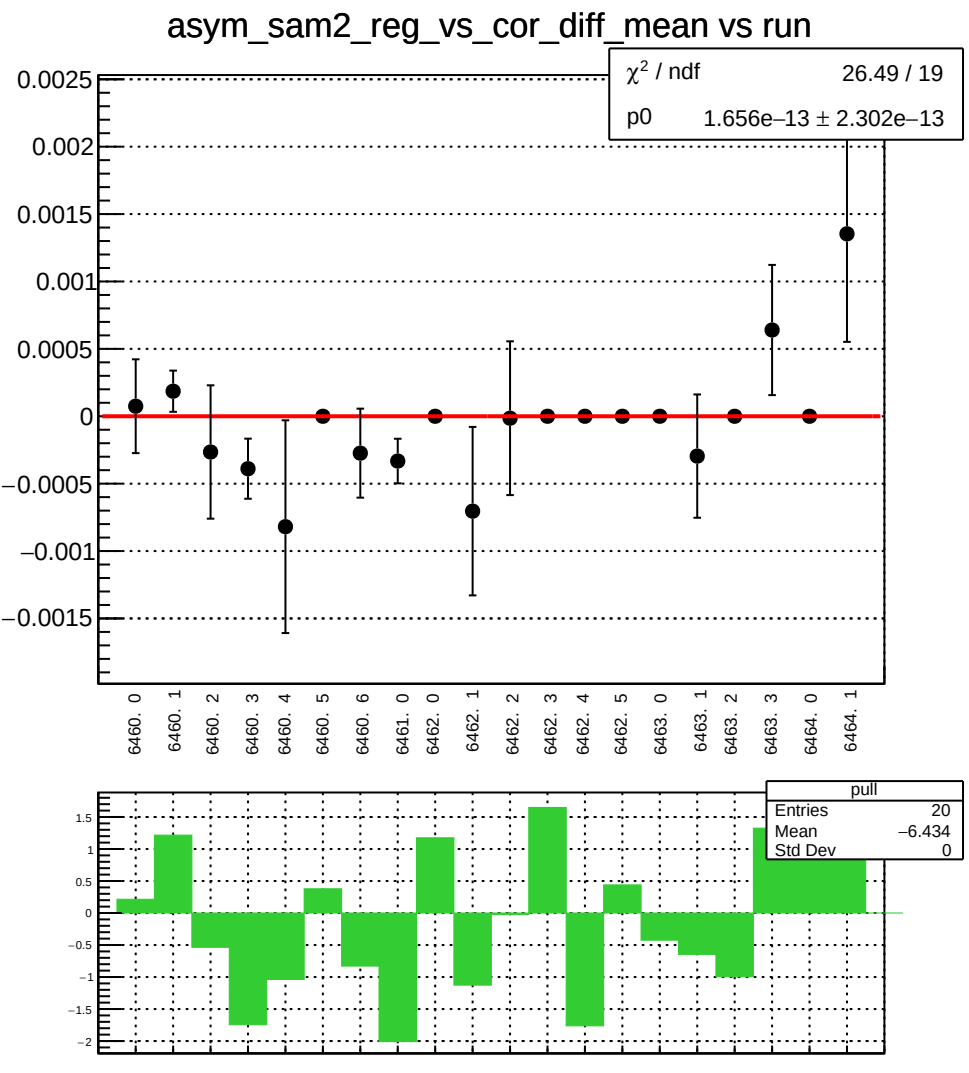

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 10.99 / 19
p0 284.1± 4845
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 118.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.005708
Std Dev 0.7412
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

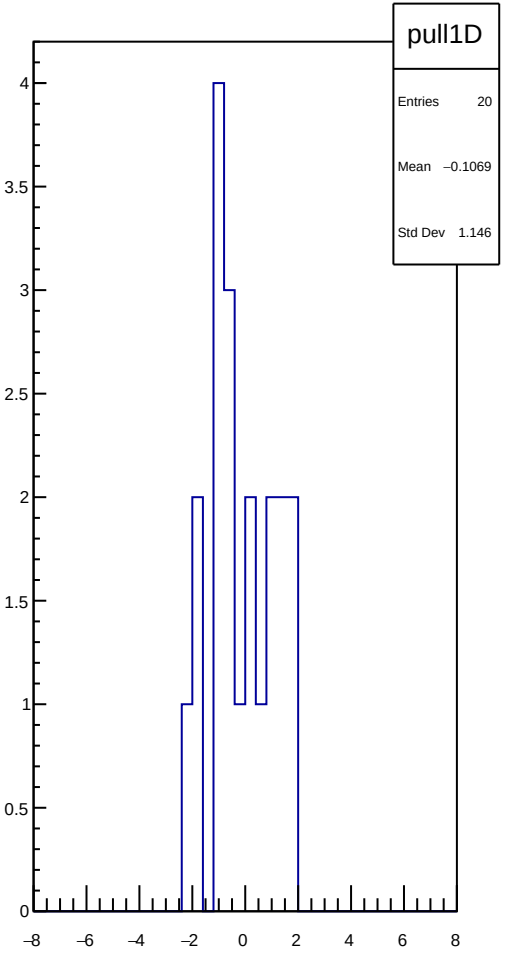

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 710.5 / 19
p0 2179 ± 3.426
2350
2300
2250
2200
2150
2100
2050
2000
1950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

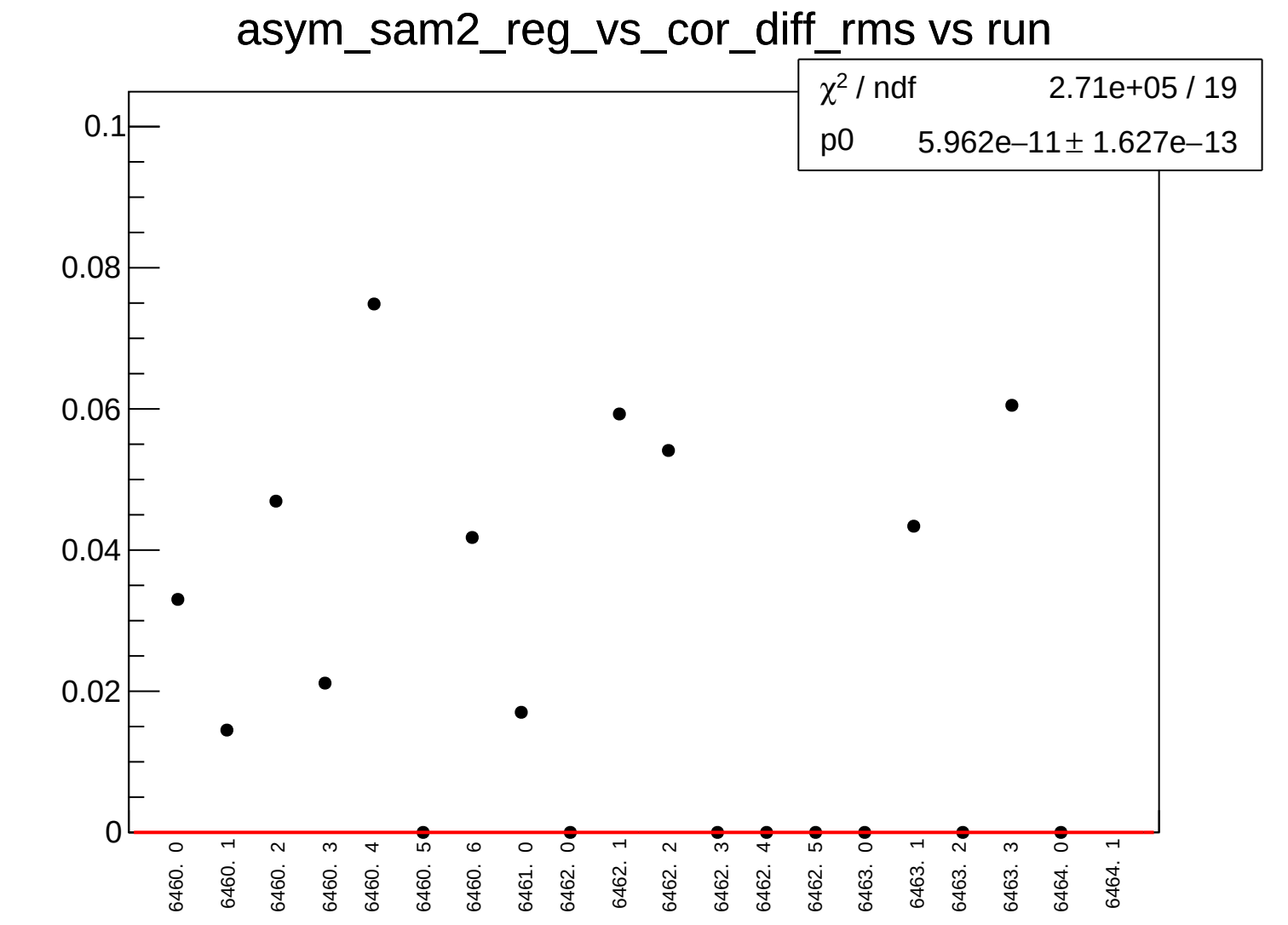

asym_sam2_mean vs run
χ² / ndf 11.94 / 19
p0 228.9 ± 4701
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 170.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

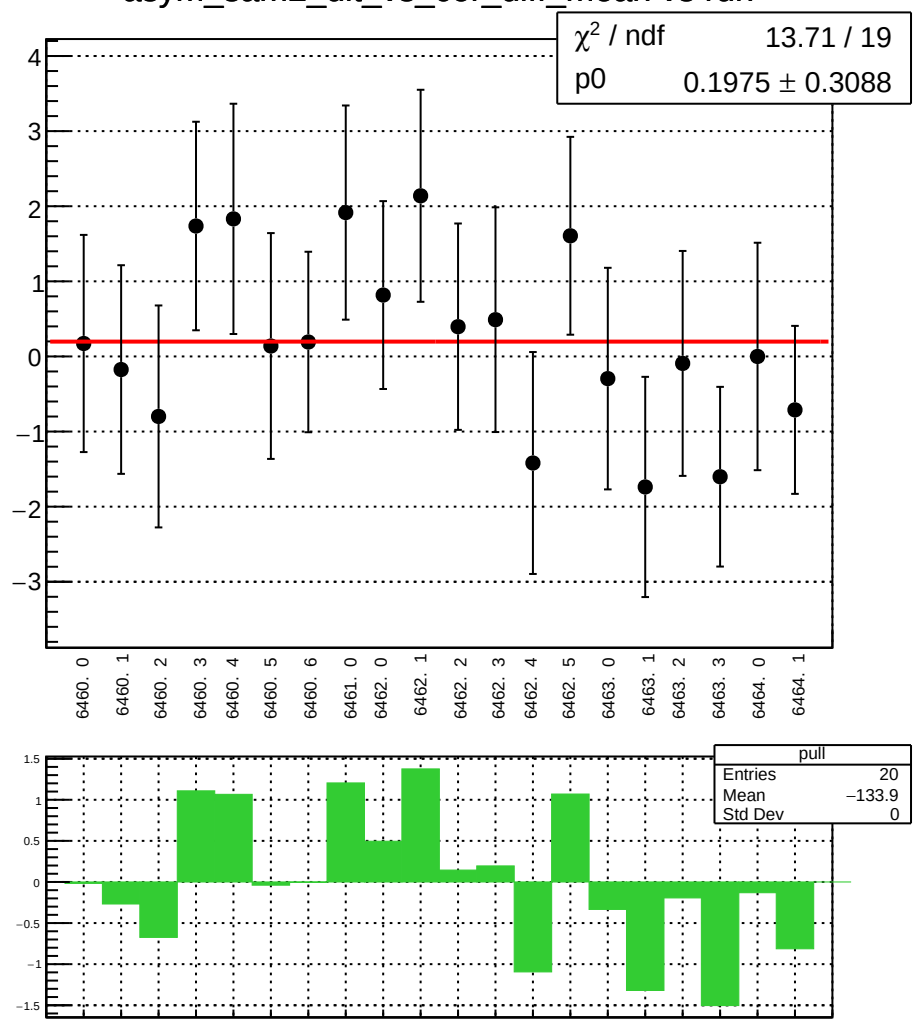

pull1D
Entries 20
Mean −0.00352
Std Dev 0.7726
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

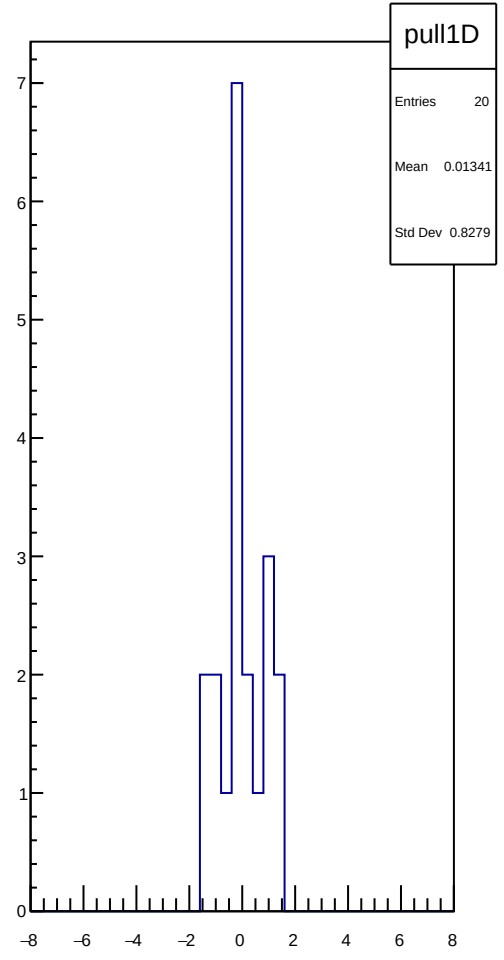

asym_sam2_rms vs run
χ² / ndf 860.1 / 19
p0 2114 ± 3.324
2300
2200
2100
2000
1900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

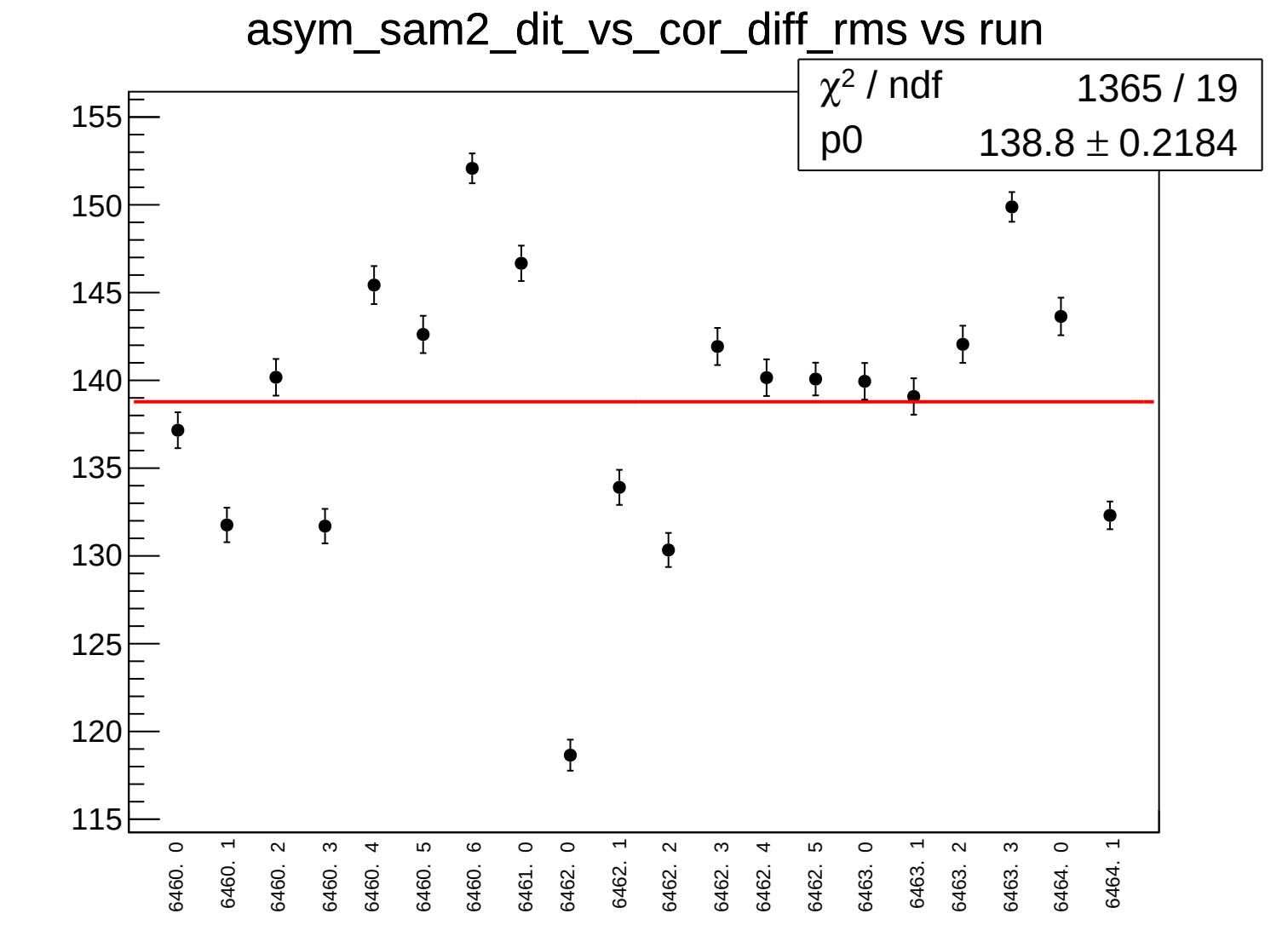

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 26.49 / 19
p0 1.656e−13 ± 2.302e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.434
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 20
Mean −0.1069
Std Dev 1.146
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

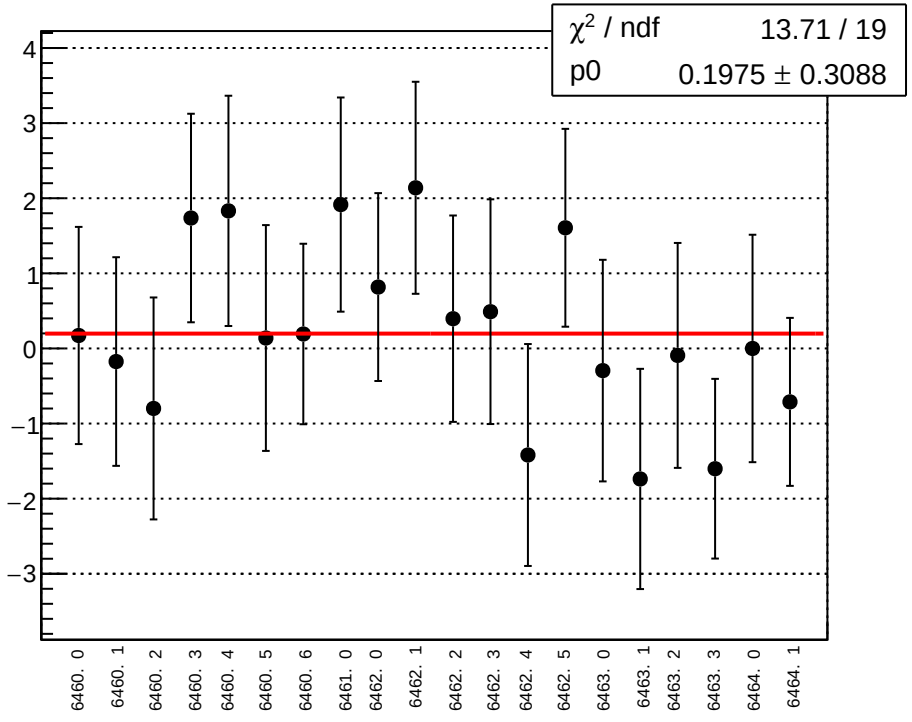

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 2.71e+05 / 19
p0 5.962e−11 ± 1.627e−13
0.1
0.08
0.06
0.04
0.02
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

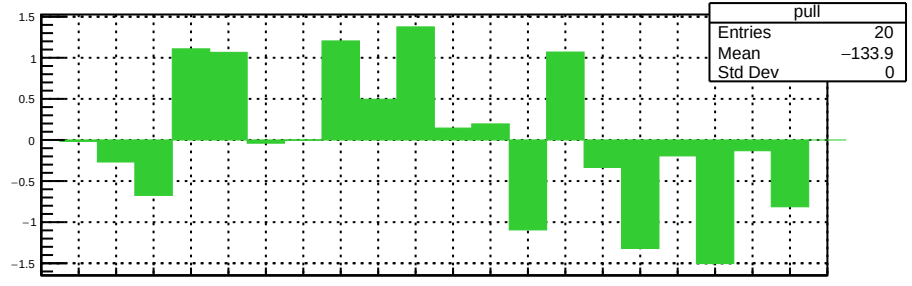

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 13.71 / 19
p0 0.1975 ± 0.3088
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −133.9
Std Dev 0

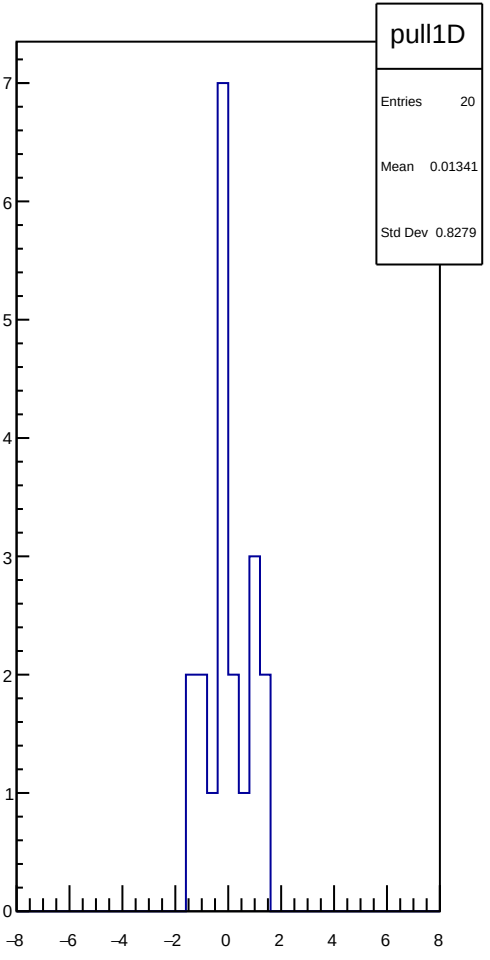

pull1D
Entries 20
Mean 0.01341
Std Dev 0.8279

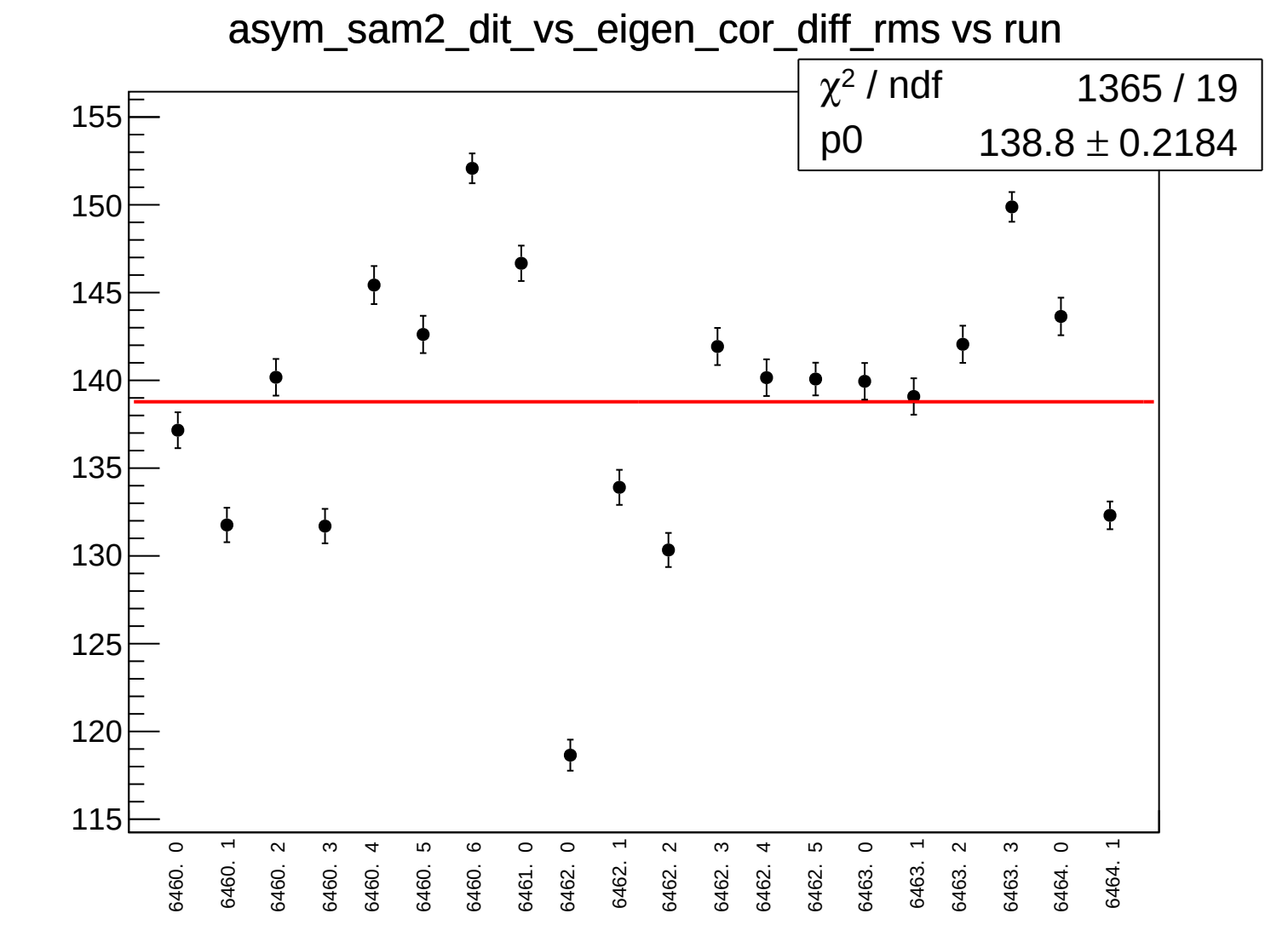

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1365 / 19
p0 138.8 ± 0.2184
155
150
145
140
135
130
125
120
115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

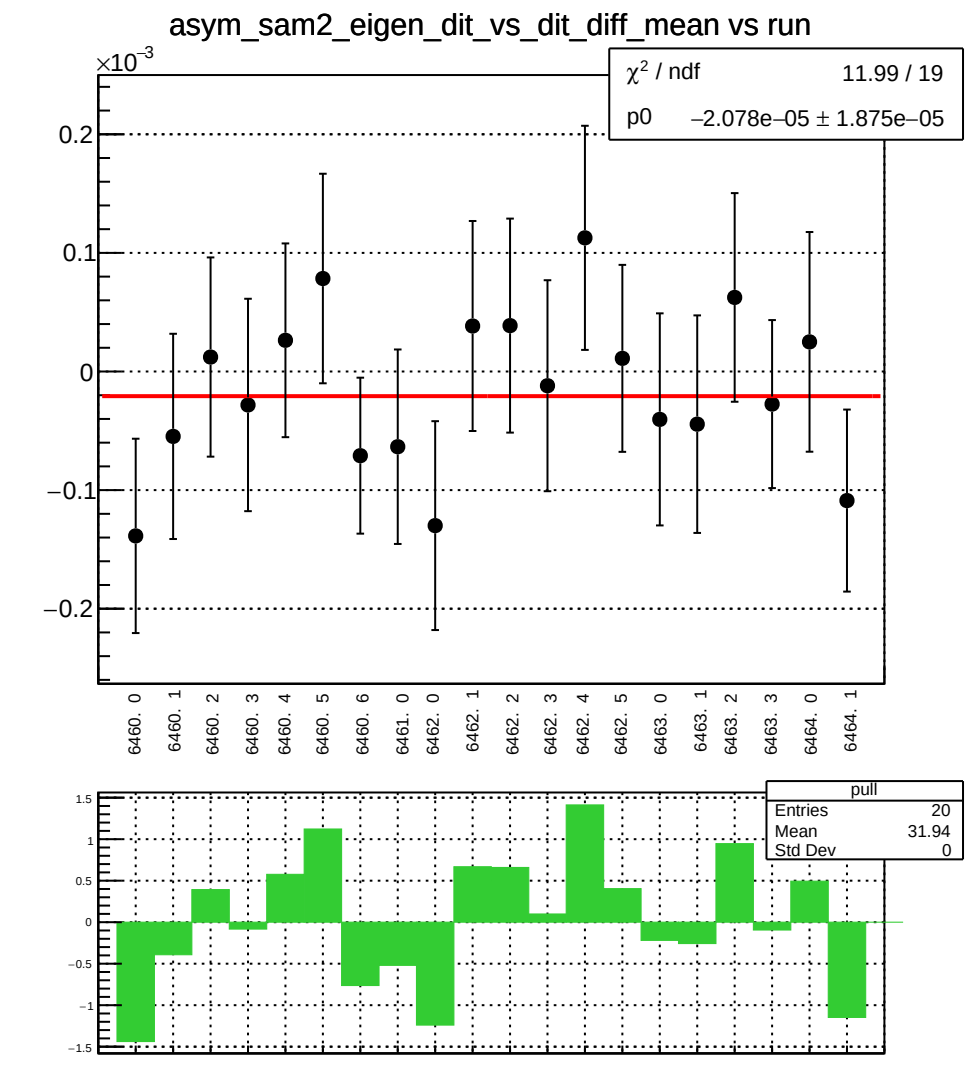
asym_sam2_dit_vs_eigen_cor_diff_mean vs run

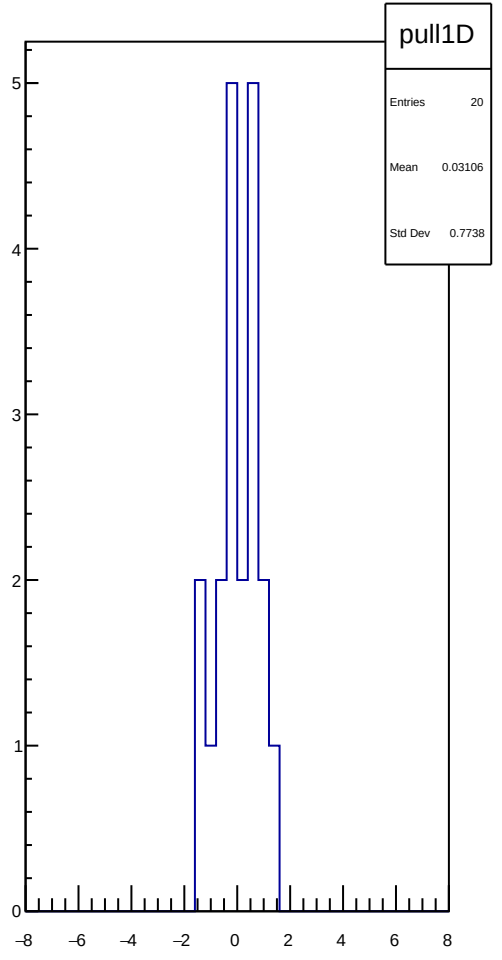


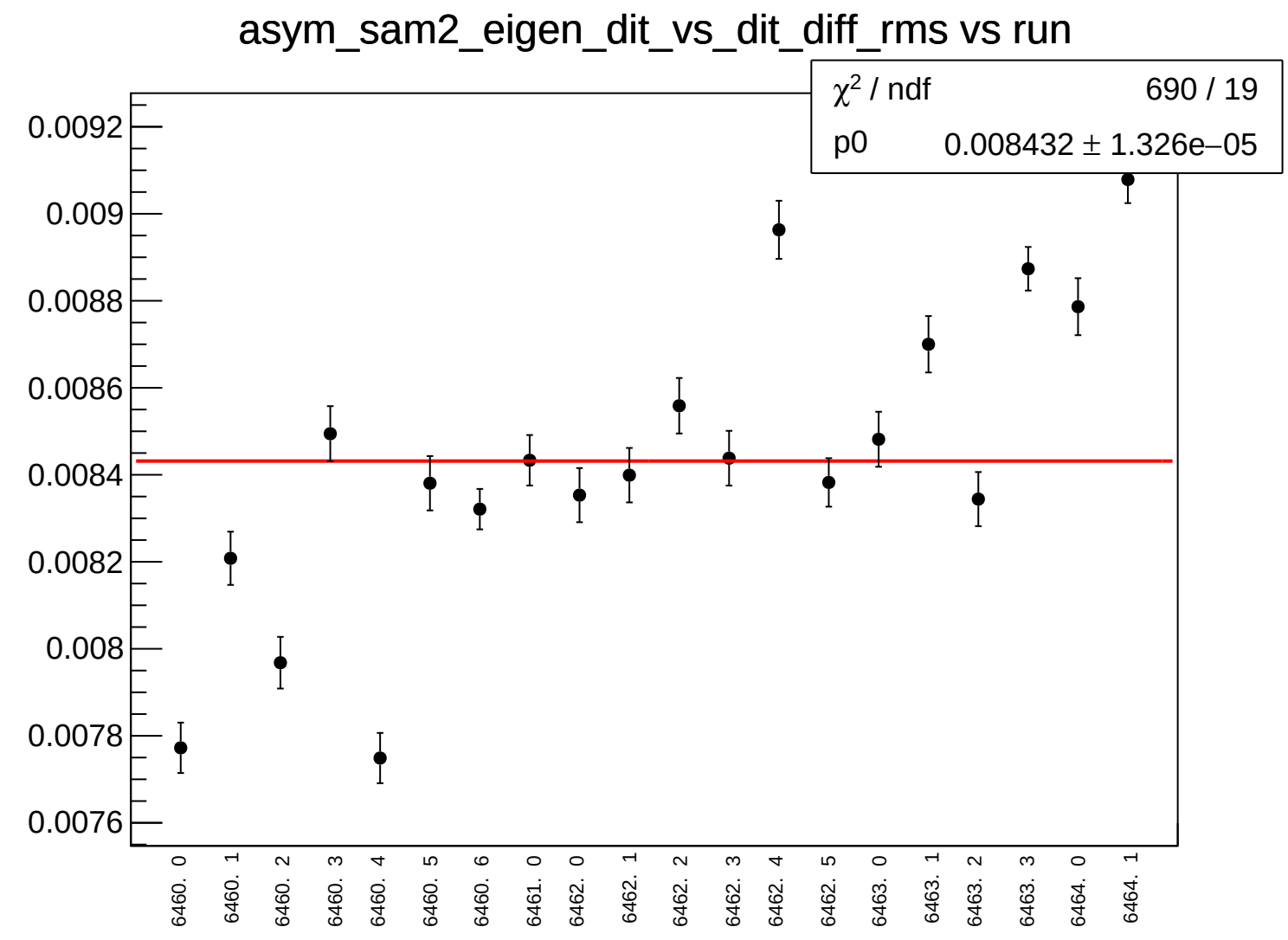


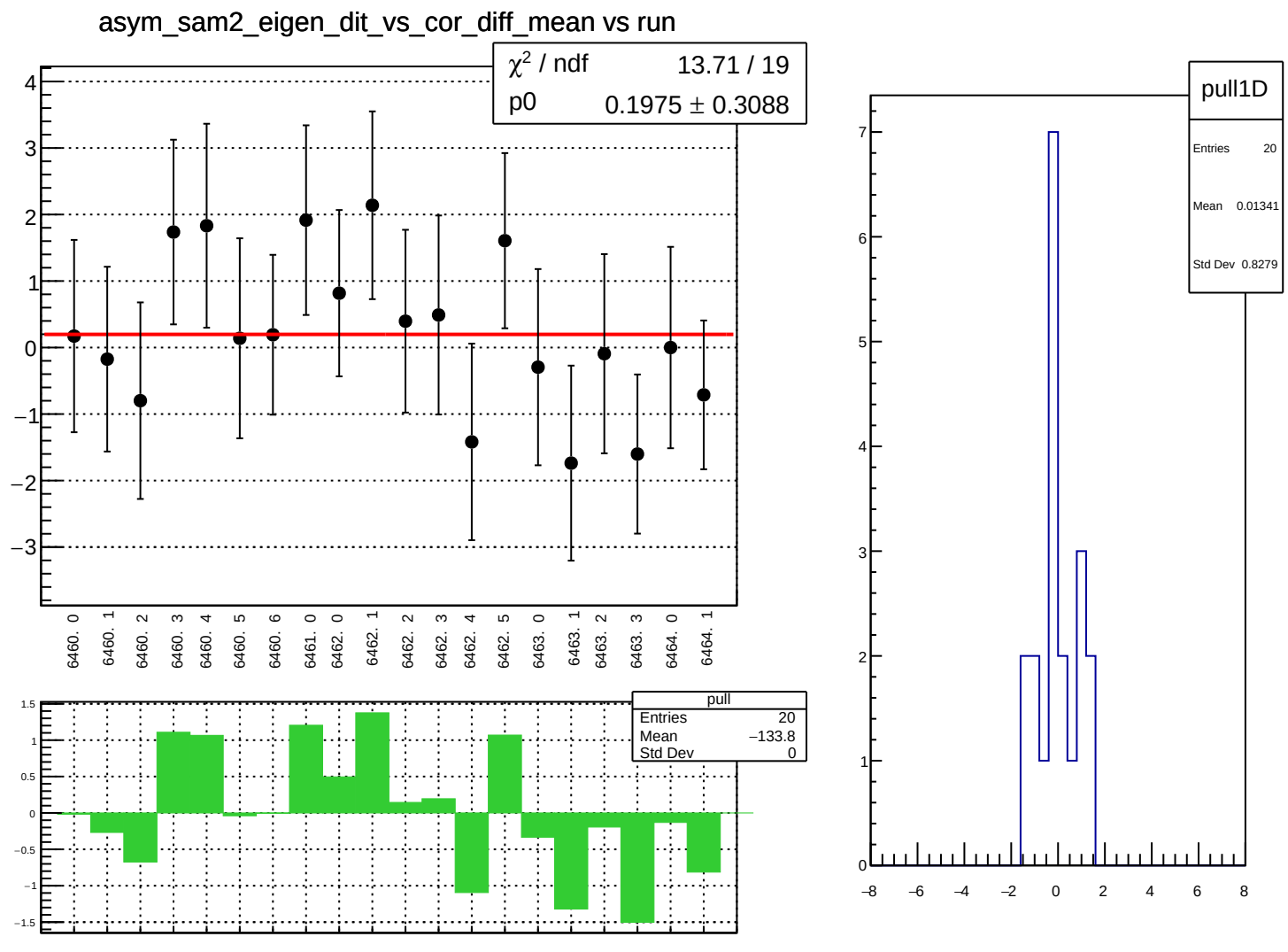


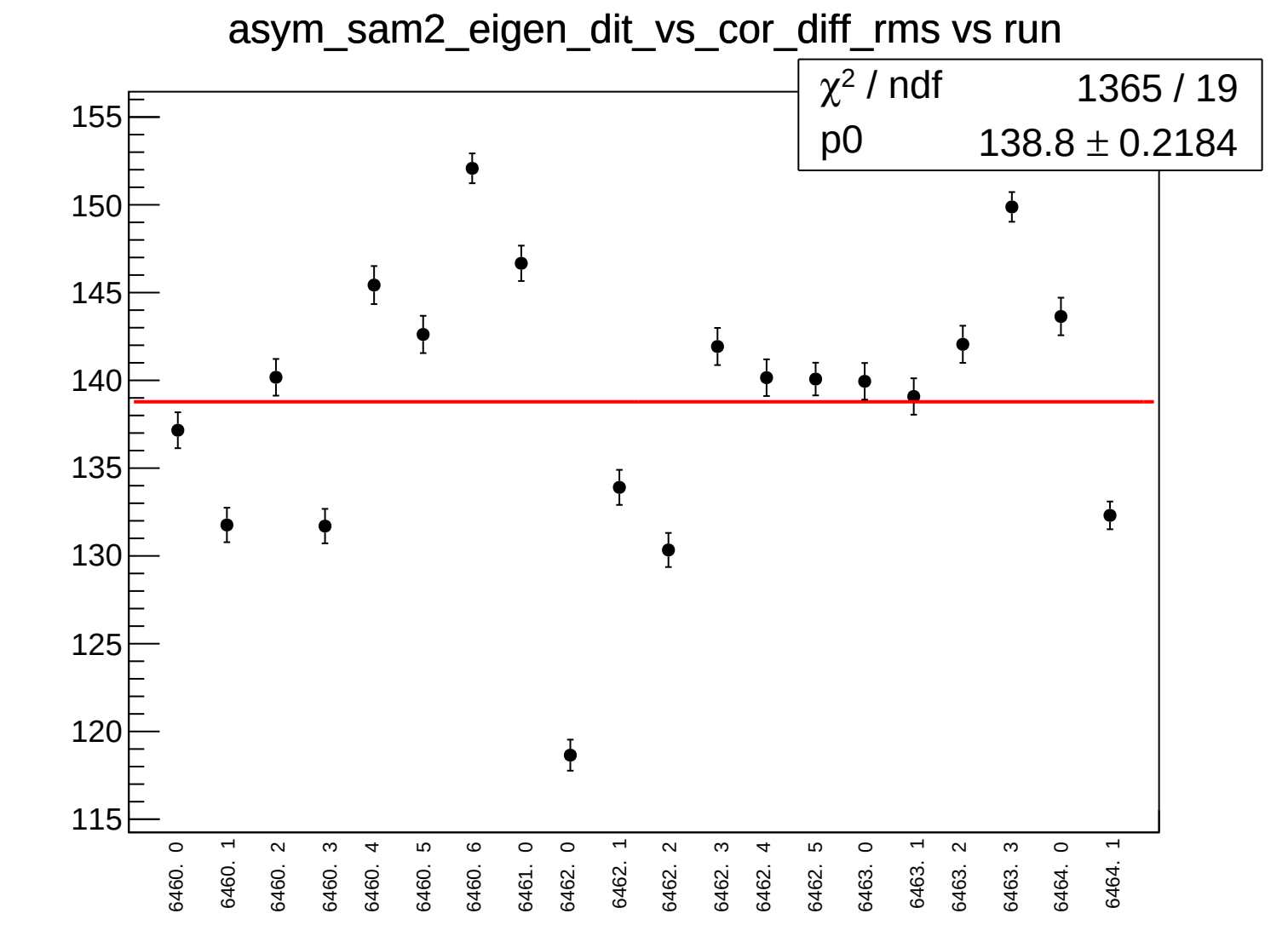

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1365 / 19
p0 138.8 ± 0.2184
155
150
145
140
135
130
125
120
115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

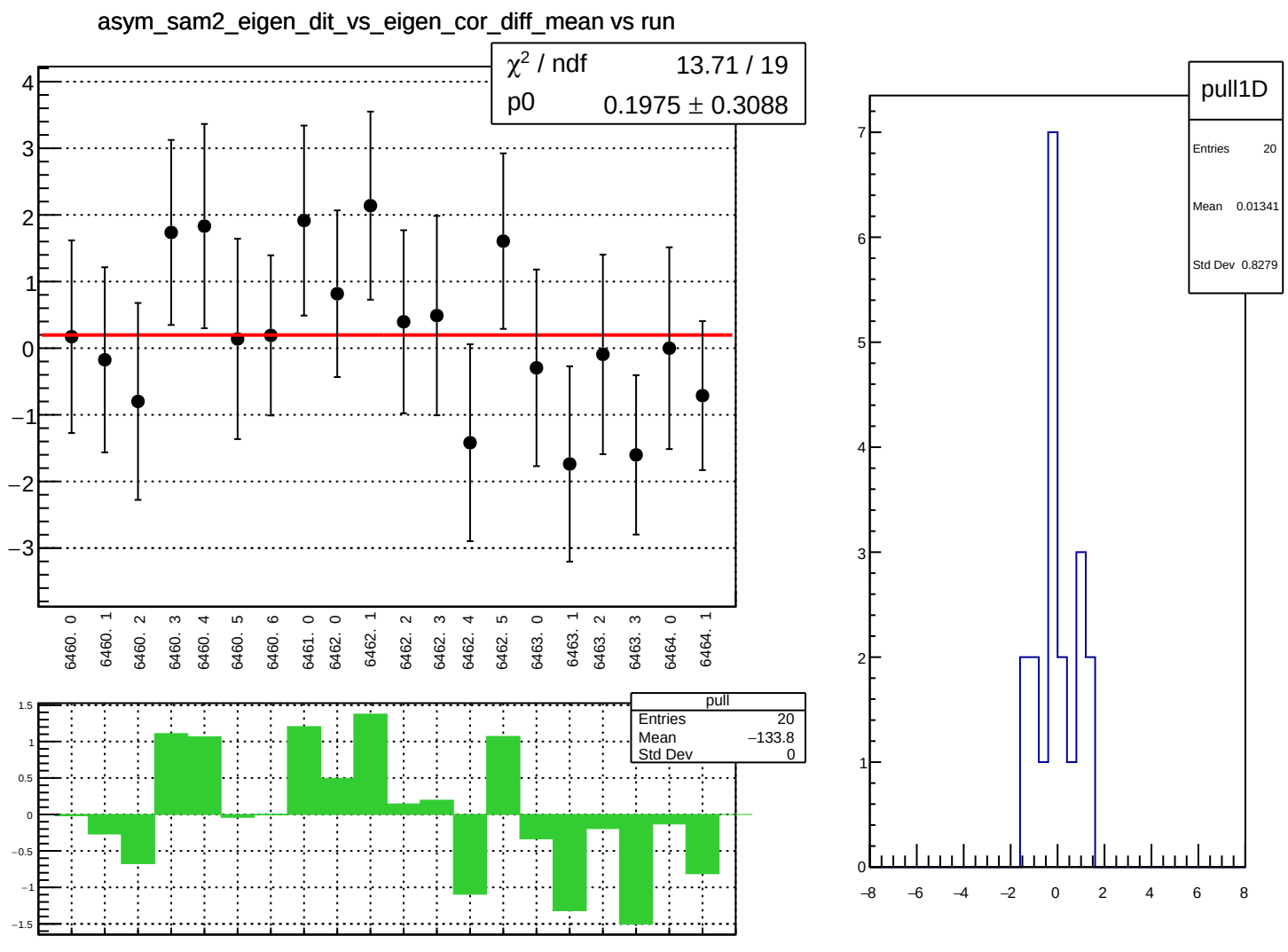

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.99 / 19
p0 −2.078e−05 ± 1.875e−05
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

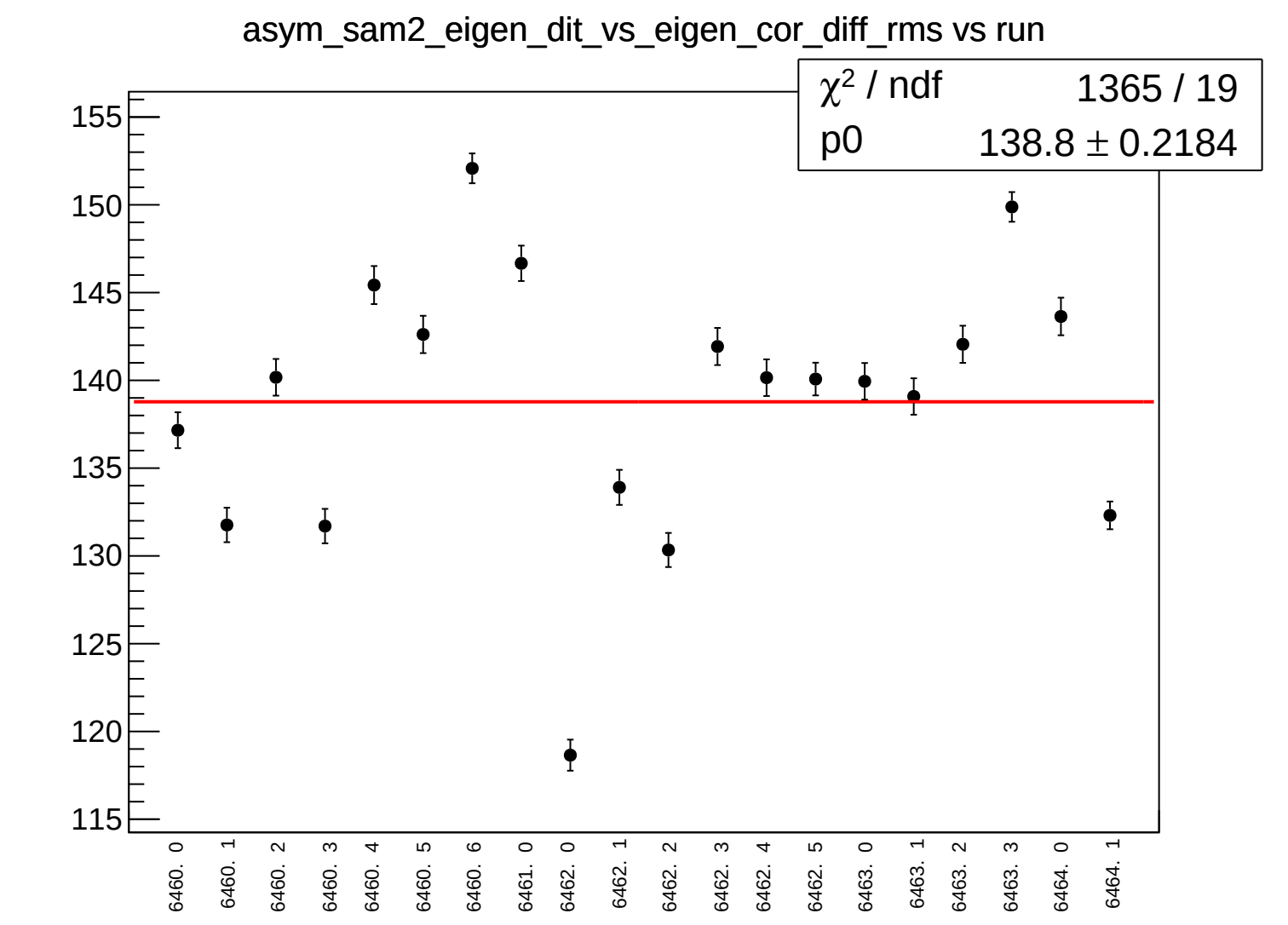

pull1D
Entries 20
Mean 0.03106
Std Dev 0.7738
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

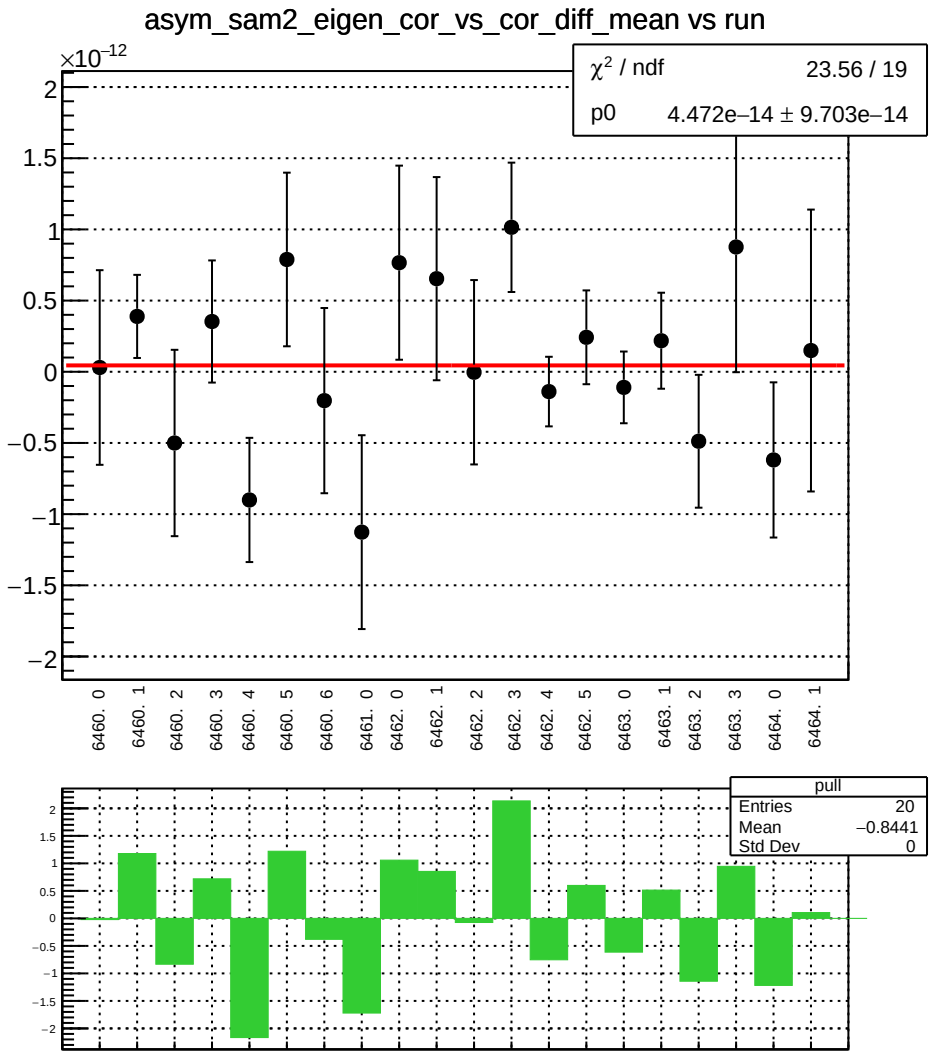

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 690 / 19
p0 0.008432 ± 1.326e−05
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

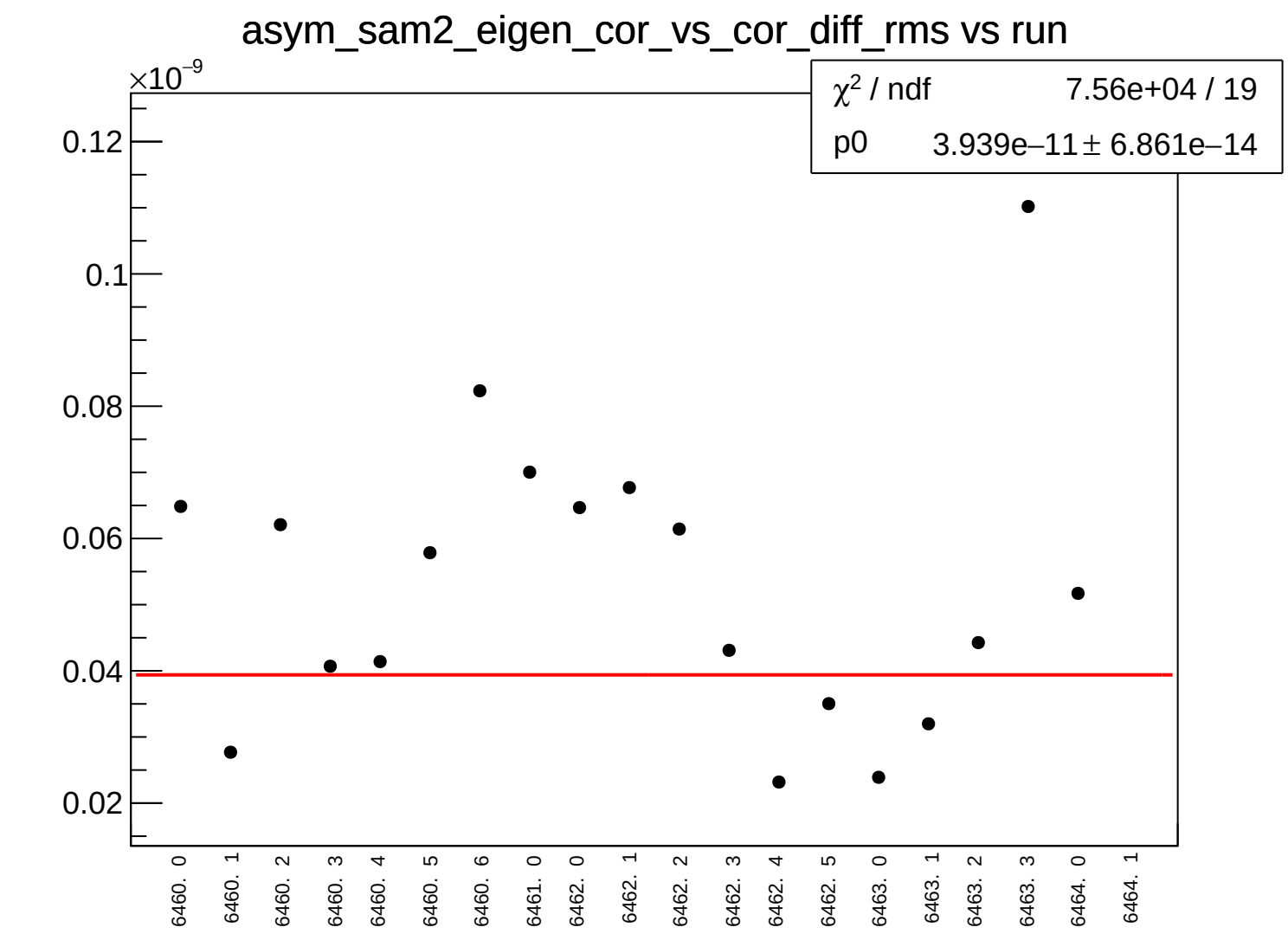

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 13.71 / 19
p0 0.1975 ± 0.3088
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −133.8
Std Dev 0
pull1D
Entries 20
Mean 0.01341
Std Dev 0.8279

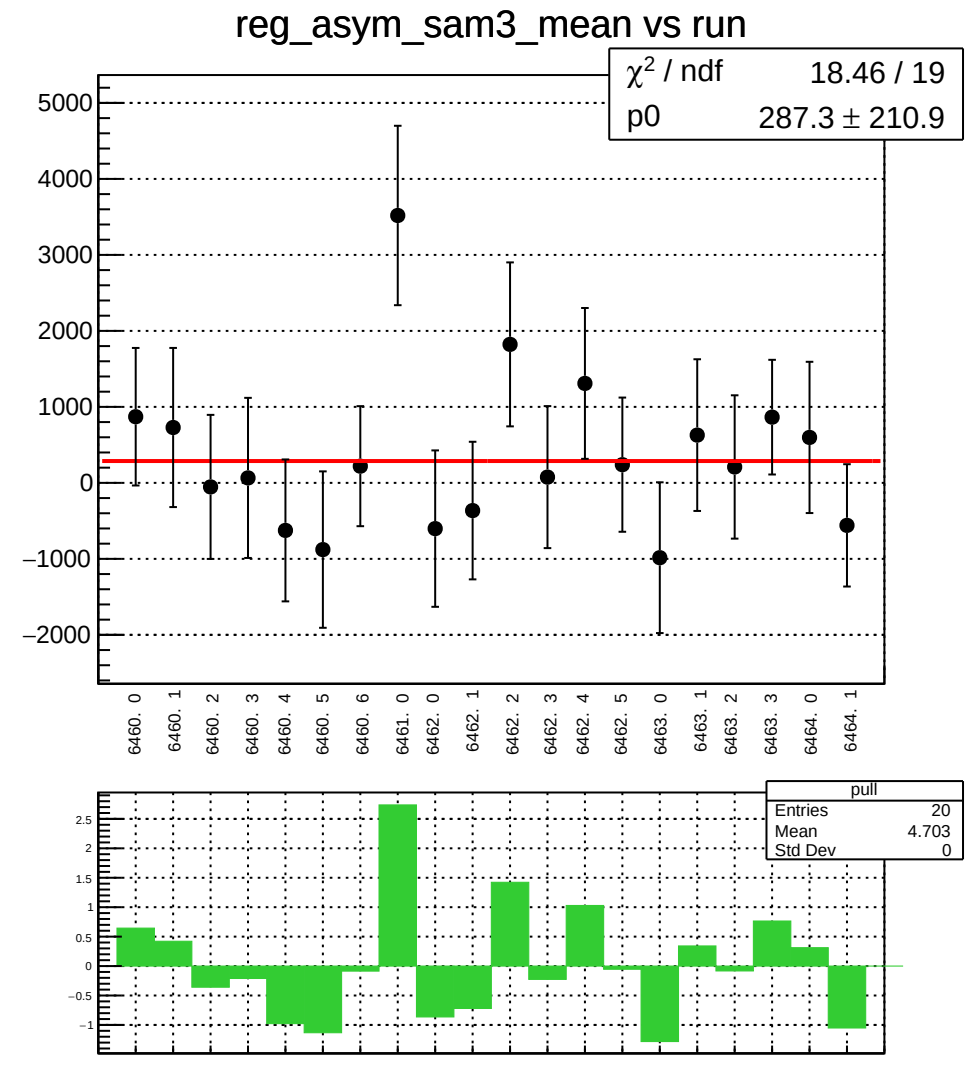

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1365 / 19
p0 138.8 ± 0.2184
155
150
145
140
135
130
125
120
115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

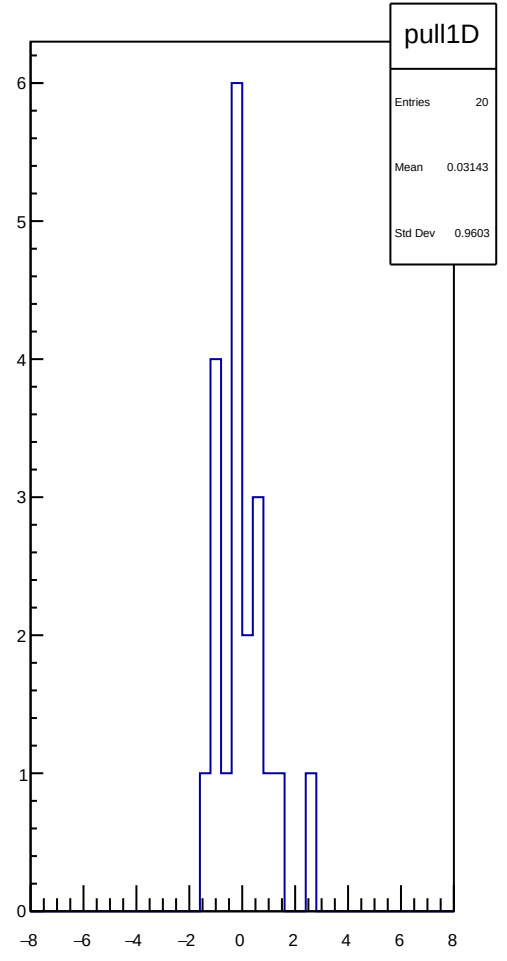

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 13.71 / 19
p0 0.1975 ± 0.3088
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −133.8
Std Dev 0
pull1D
Entries 20
Mean 0.01341
Std Dev 0.8279

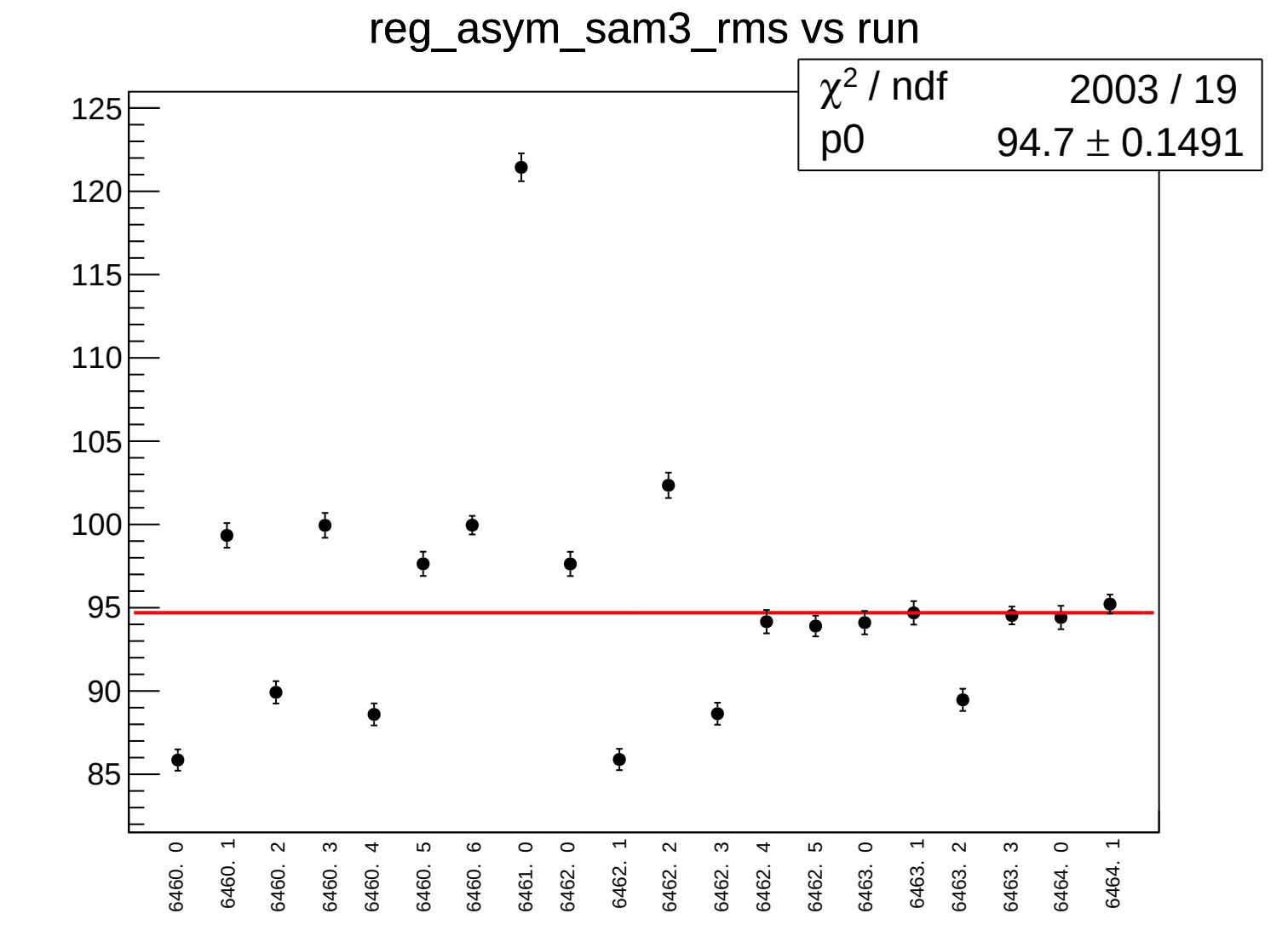

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1365 / 19
p0 138.8 ± 0.2184
155
150
145
140
135
130
125
120
115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

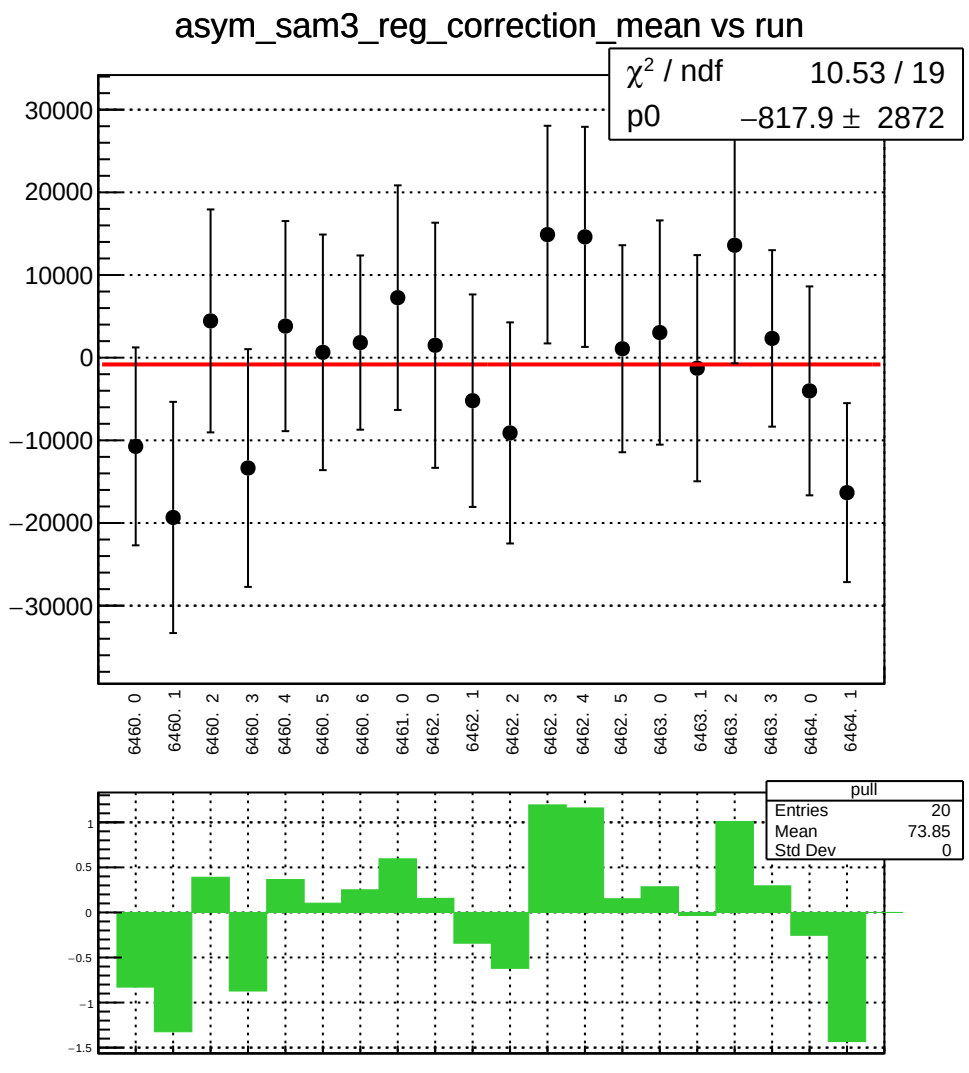

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 23.56 / 19
p0 4.472e−14 ± 9.703e−14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.8441
Std Dev 0
pull1D
Entries 20
Mean 0.02044
Std Dev 1.085
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

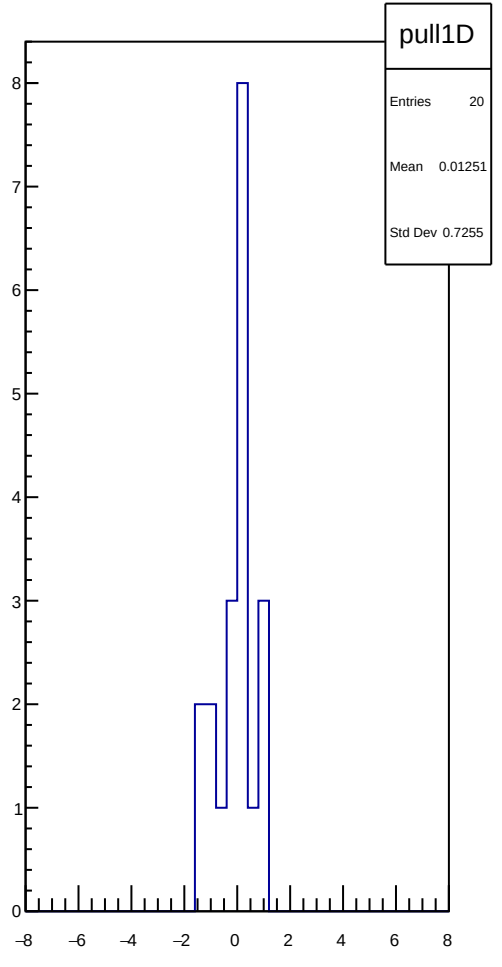

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.56e+04 / 19
p0 3.939e−11 ± 6.861e−14
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

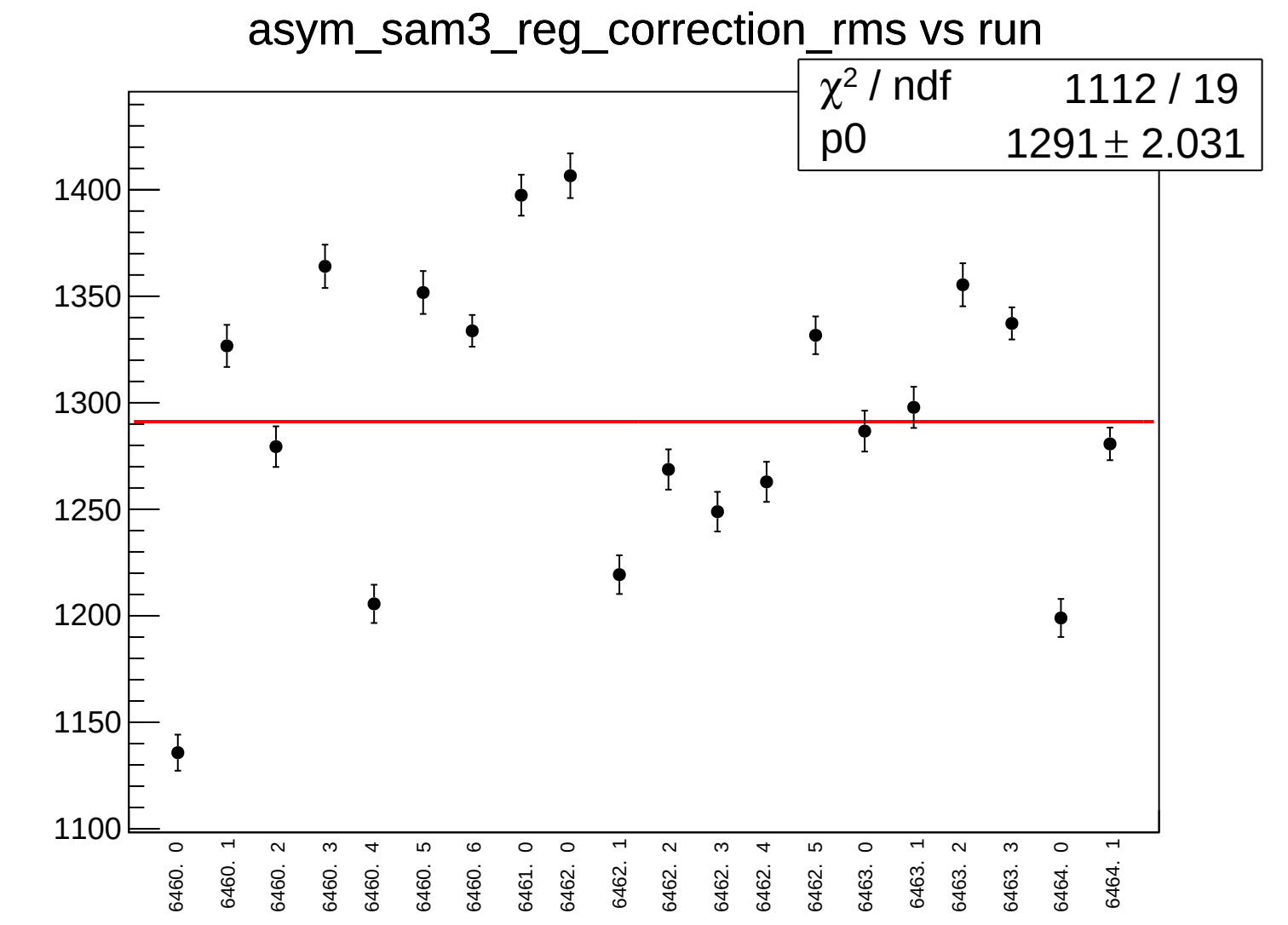

reg_asym_sam3_mean vs run
χ² / ndf 18.46 / 19
p0 287.3 ± 210.9
5000
4000
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.703
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

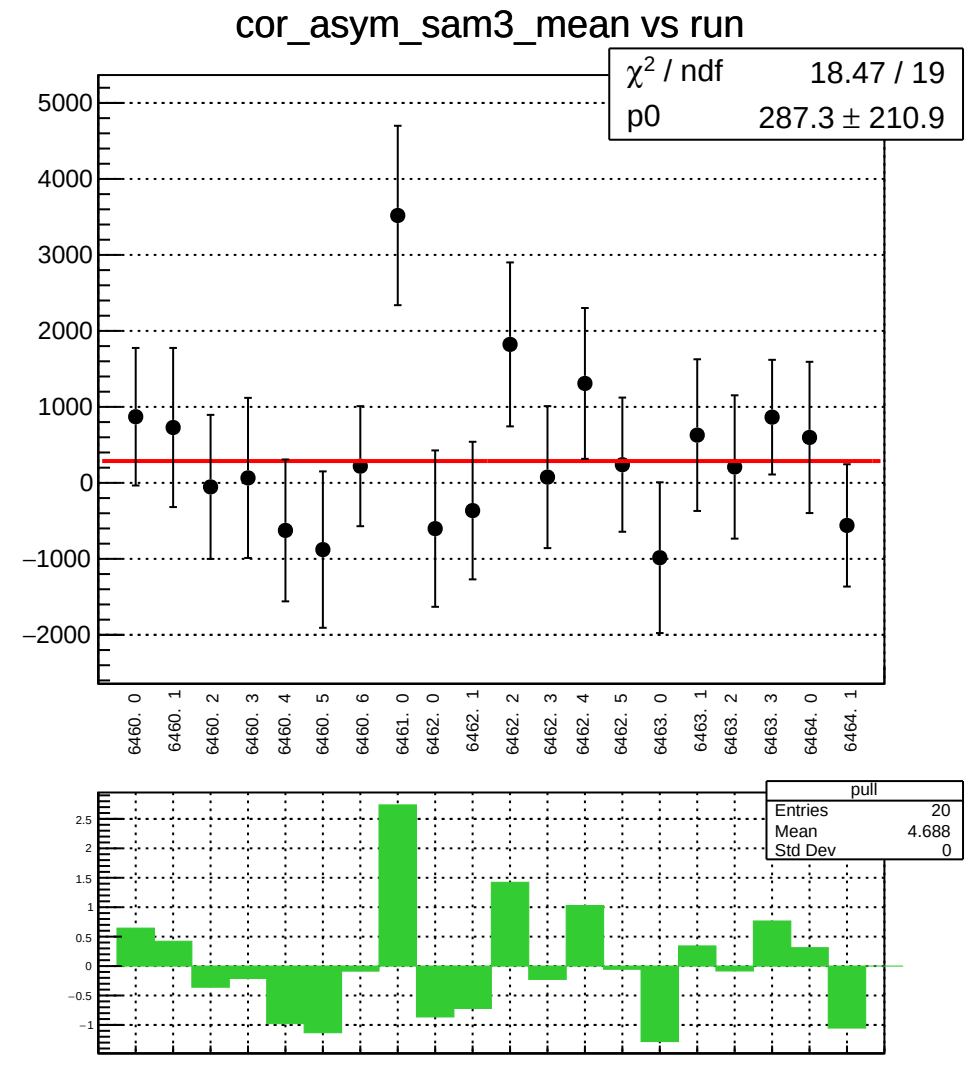

pull1D
Entries 20
Mean 0.03143
Std Dev 0.9603
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

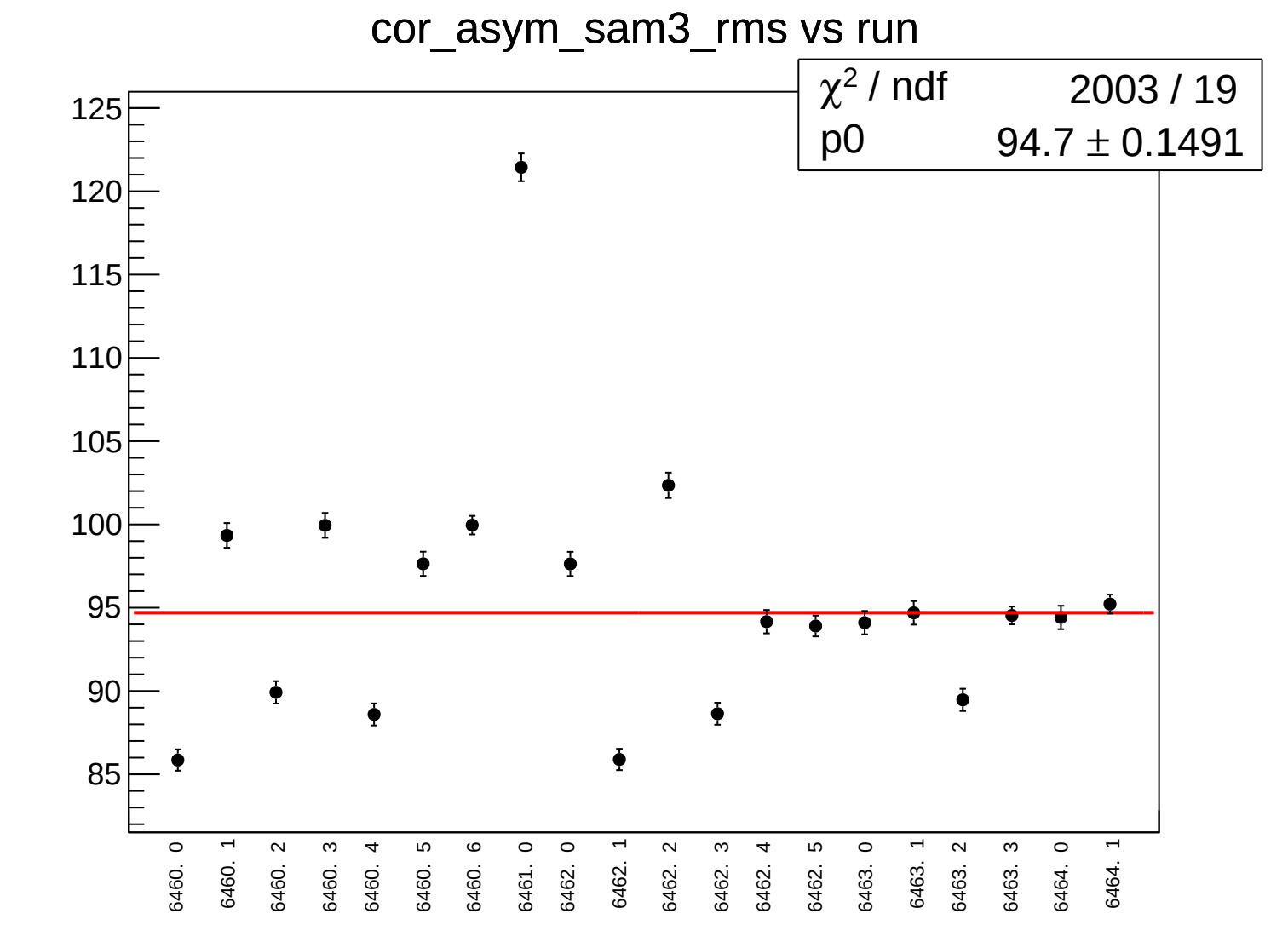

reg_asym_sam3_rms vs run
χ² / ndf 2003 / 19
p0 94.7 ± 0.1491
125
120
115
110
105
100
95
90
85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

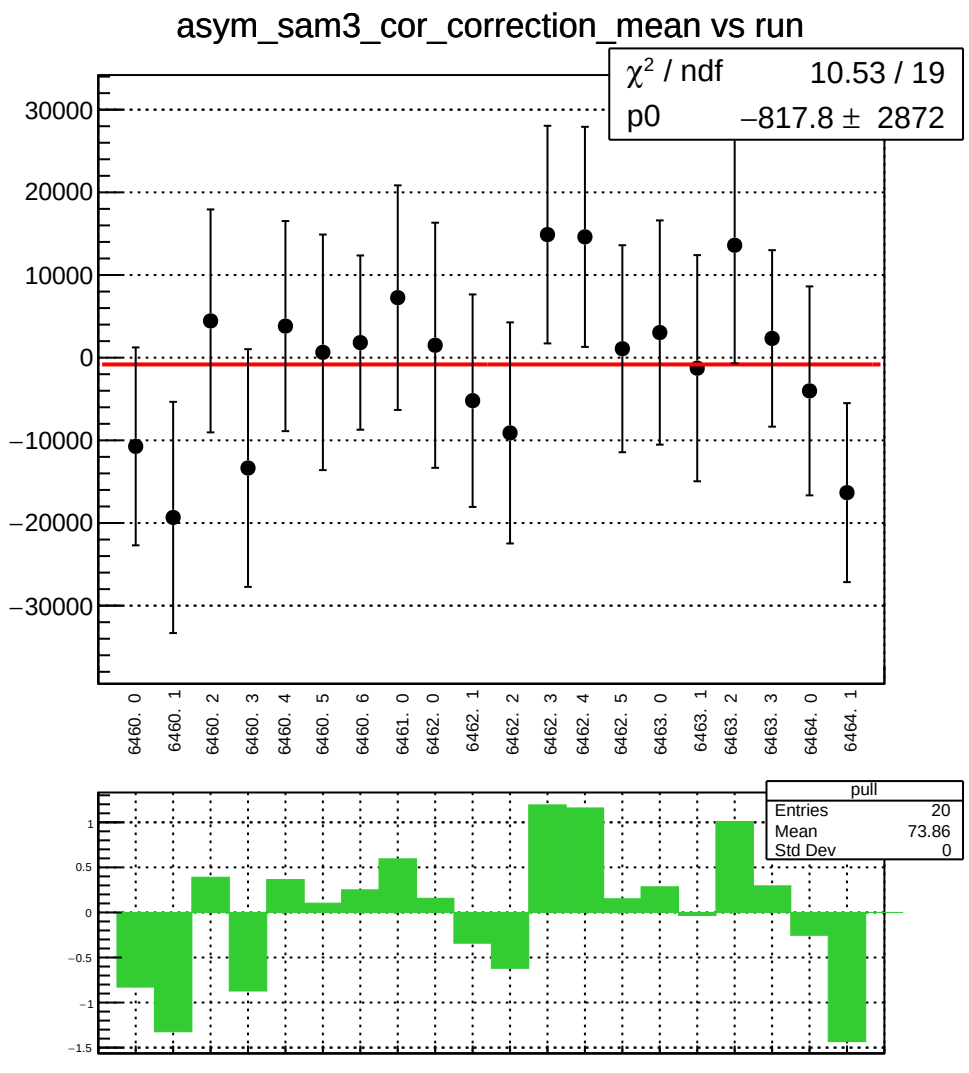

asym_sam3_reg_correction_mean vs run
χ² / ndf 10.53 / 19
p0 −817.9 ± 2872
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.85
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

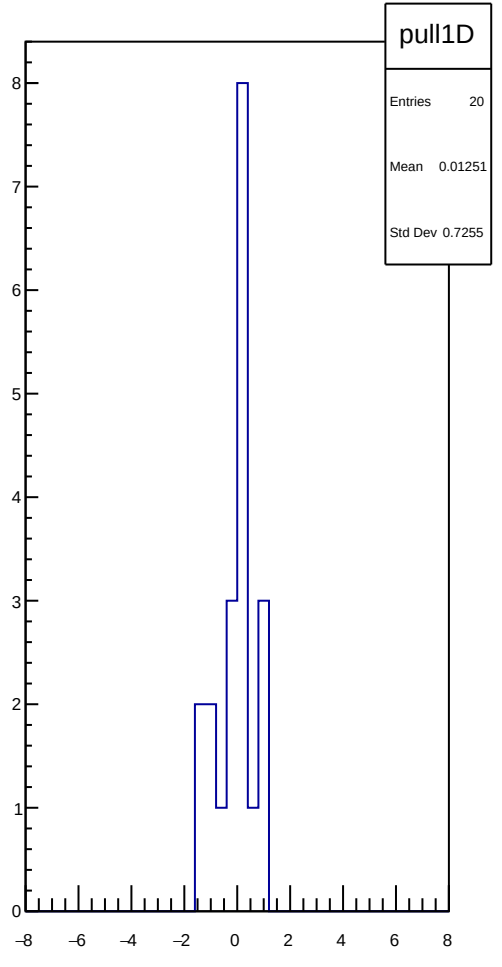

pull1D
Entries 20
Mean 0.01251
Std Dev 0.7255
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

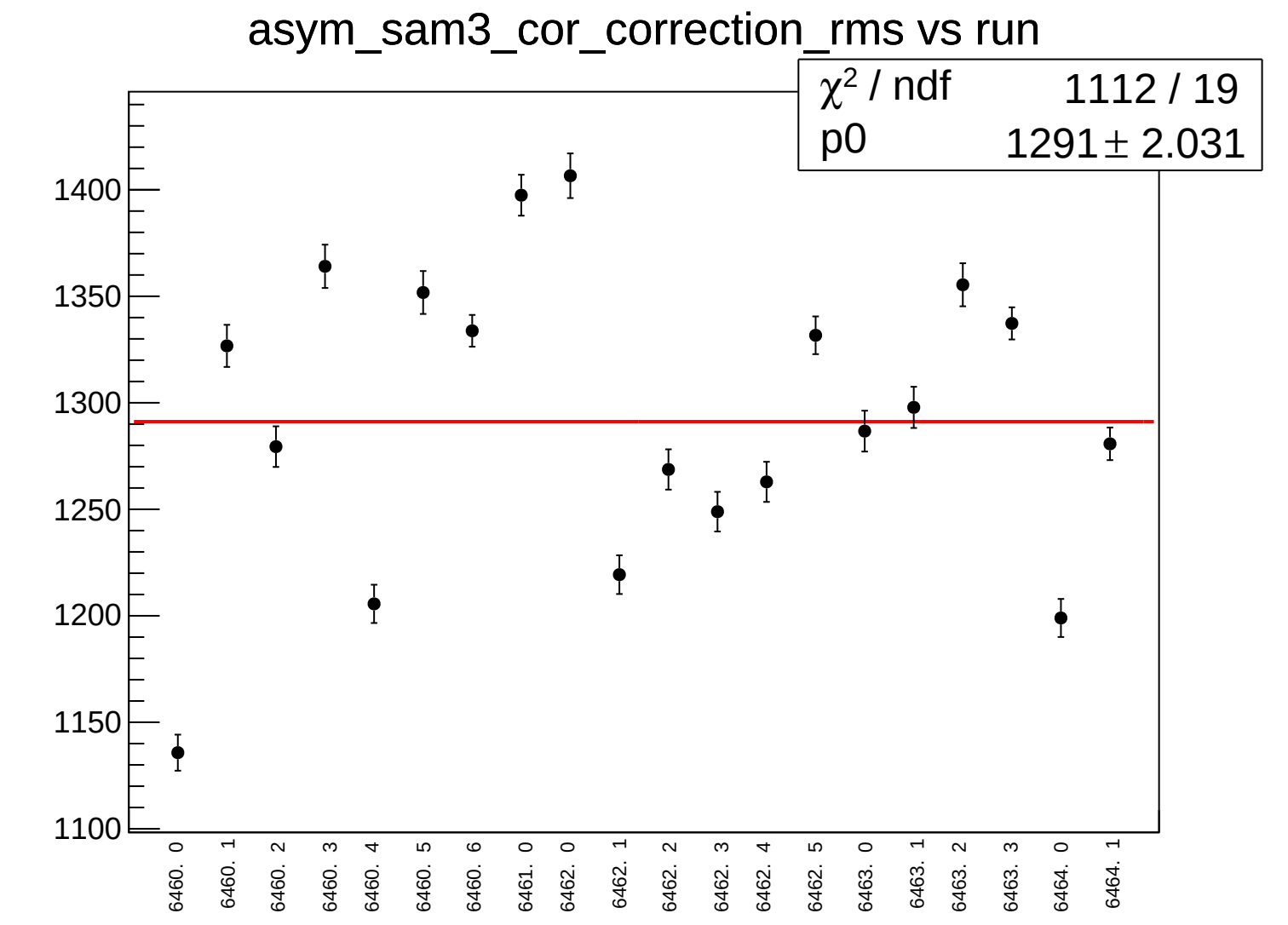

asym_sam3_reg_correction_rms vs run
χ² / ndf 1112 / 19
p0 1291 ± 2.031
1400
1350
1300
1250
1200
1150
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

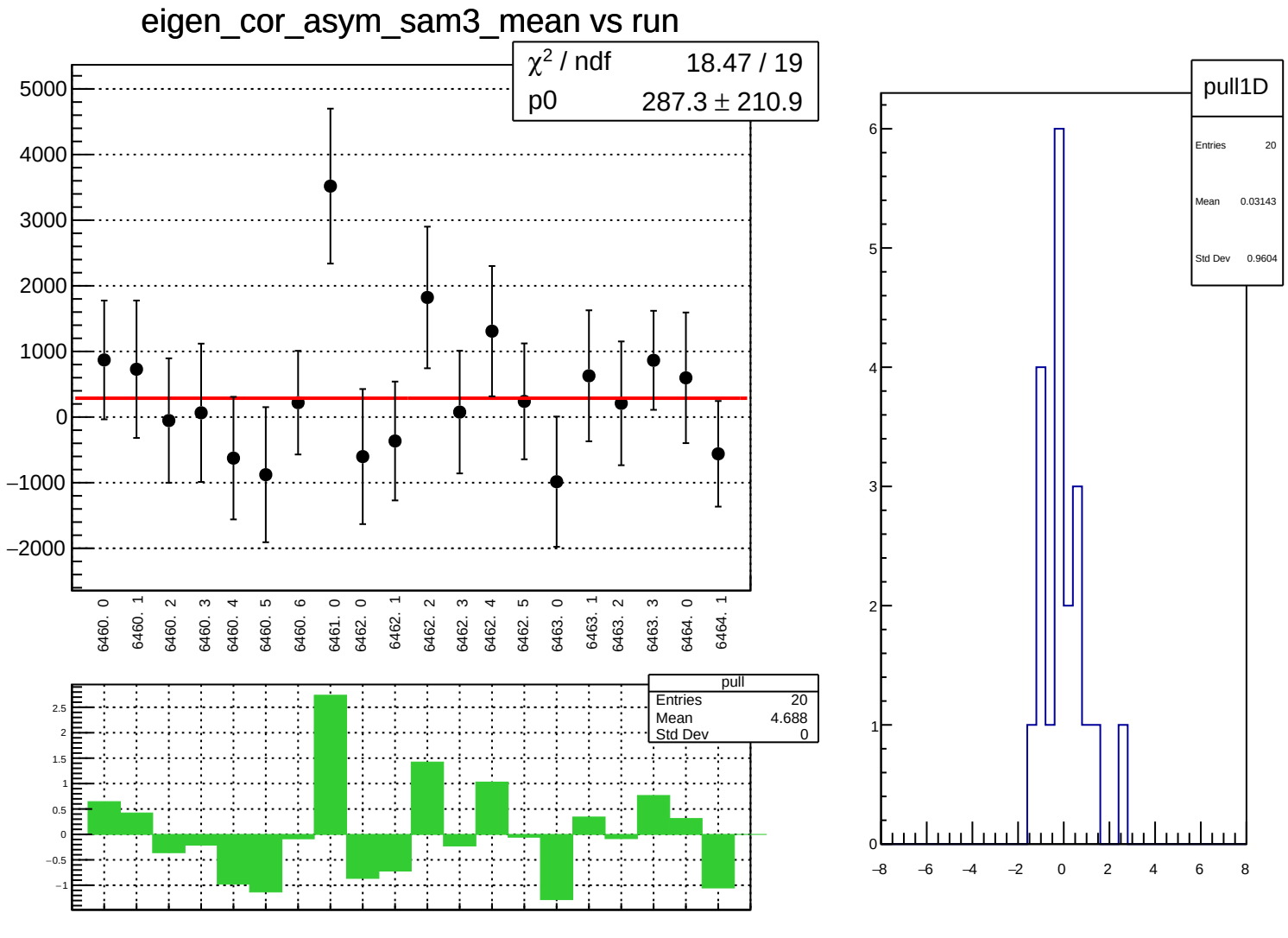

cor_asym_sam3_mean vs run
χ² / ndf 18.47 / 19
p0 287.3 ± 210.9
5000
4000
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.688
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03143
Std Dev 0.9604
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

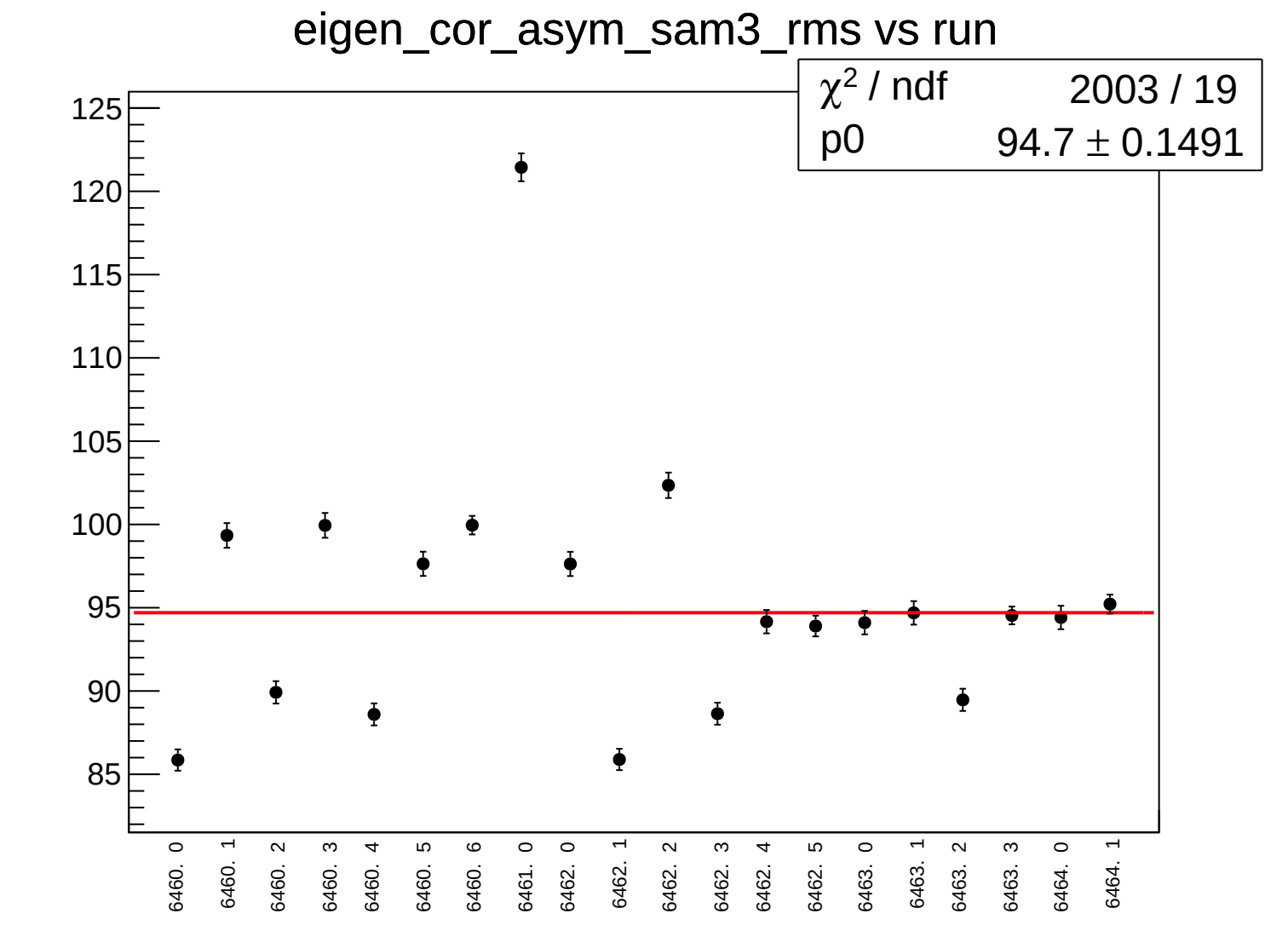

cor_asym_sam3_rms vs run
χ² / ndf 2003 / 19
p0 94.7 ± 0.1491
125
120
115
110
105
100
95
90
85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

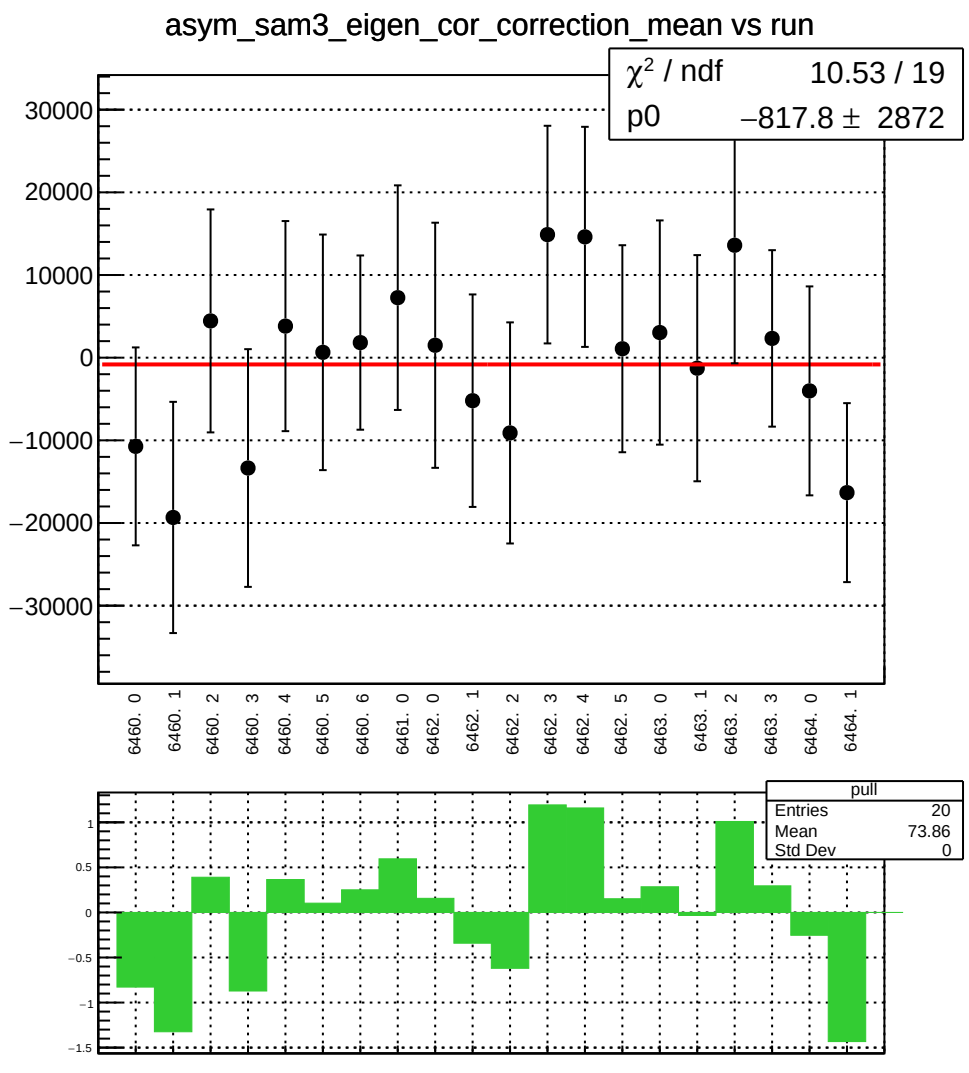

asym_sam3_cor_correction_mean vs run
χ² / ndf 10.53 / 19
p0 −817.8 ± 2872
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.86
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

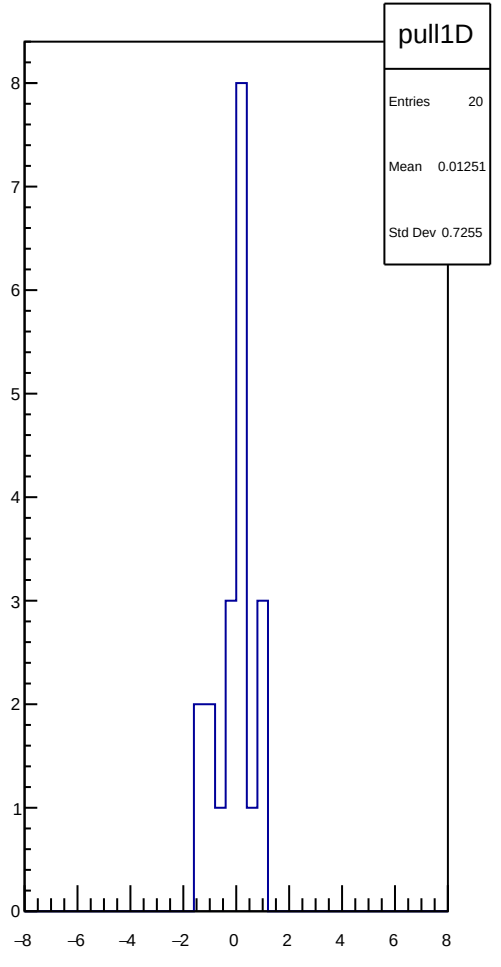

pull1D
Entries 20
Mean 0.01251
Std Dev 0.7255
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

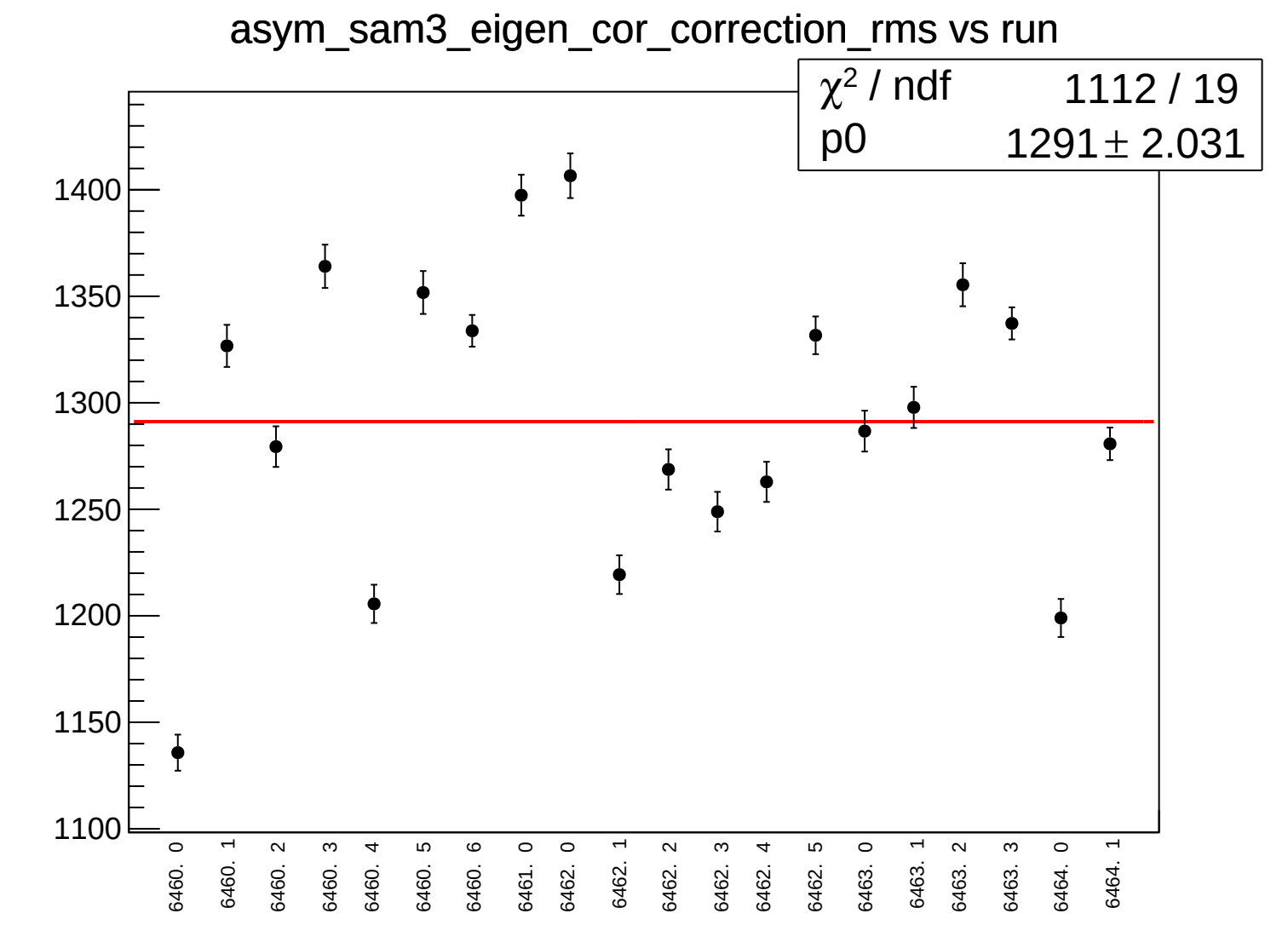

asym_sam3_cor_correction_rms vs run
χ² / ndf 1112 / 19
p0 1291 ± 2.031
1400
1350
1300
1250
1200
1150
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

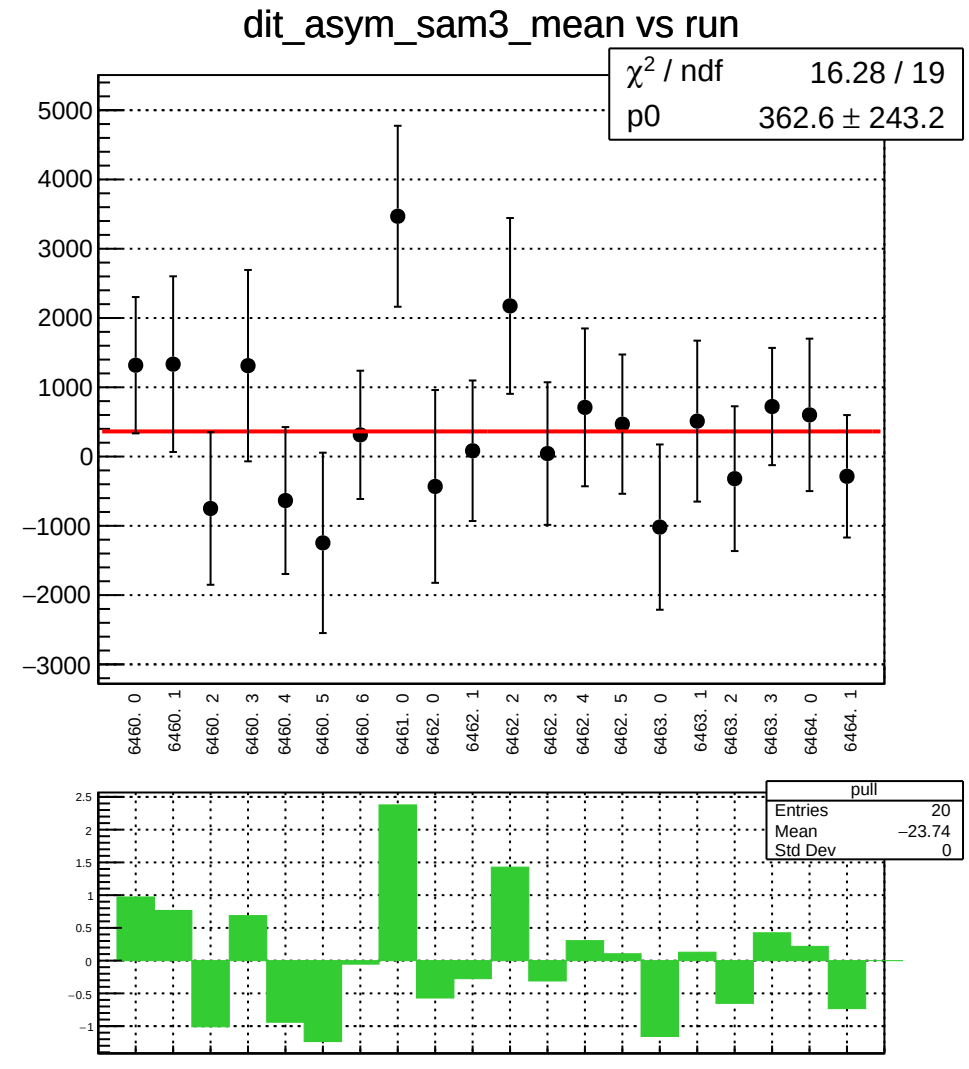

eigen_cor_asym_sam3_mean vs run
χ² / ndf 18.47 / 19
p0 287.3 ± 210.9
5000
4000
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.688
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03143
Std Dev 0.9604
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

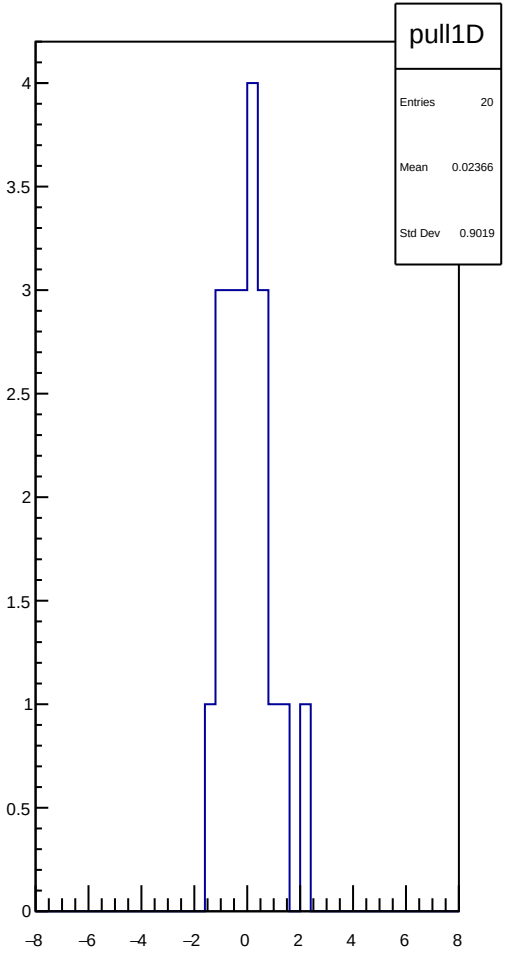

eigen_cor_asym_sam3_rms vs run
χ² / ndf 2003 / 19
p0 94.7 ± 0.1491
125
120
115
110
105
100
95
90
85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

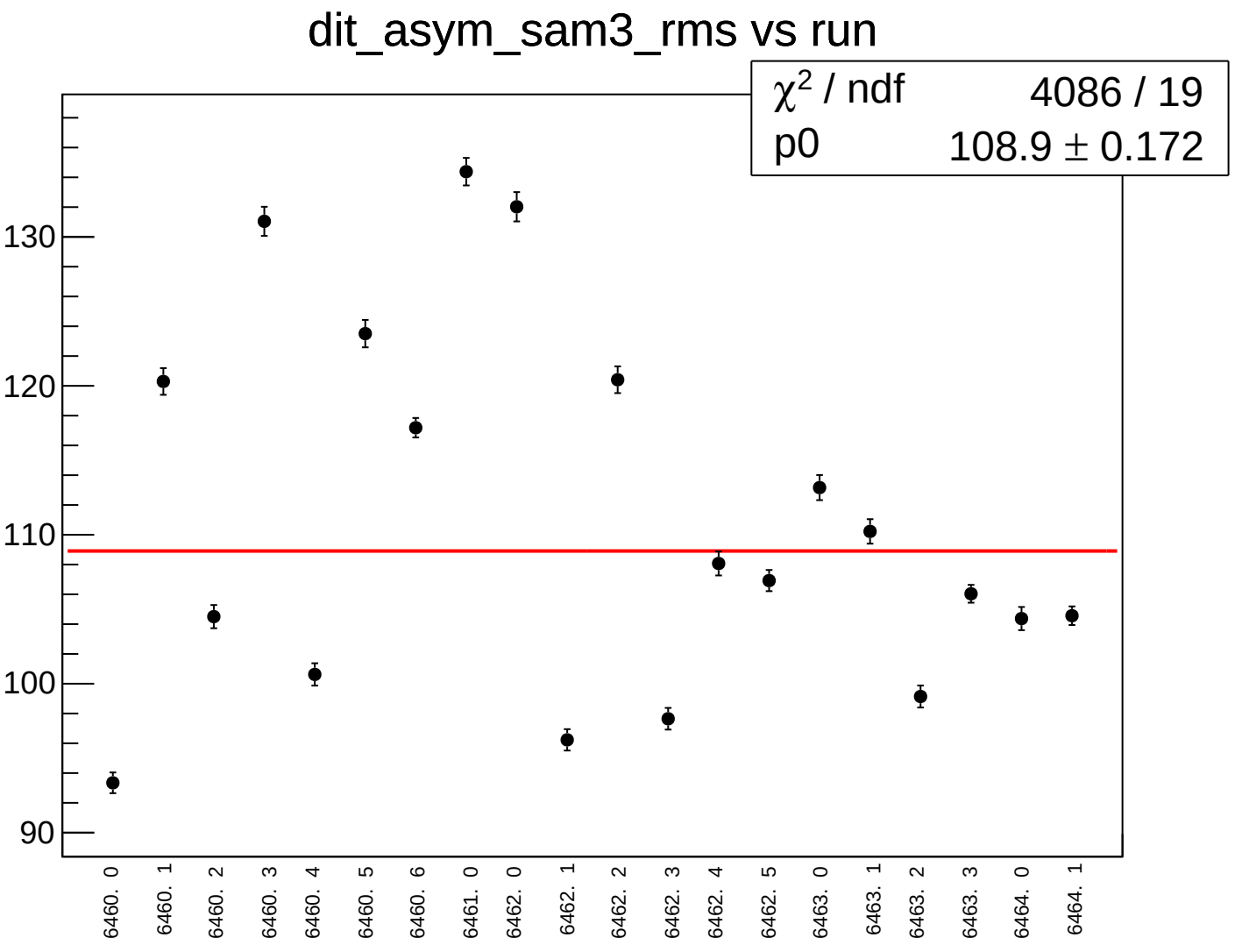

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 10.53 / 19
p0 −817.8 ± 2872
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.86
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

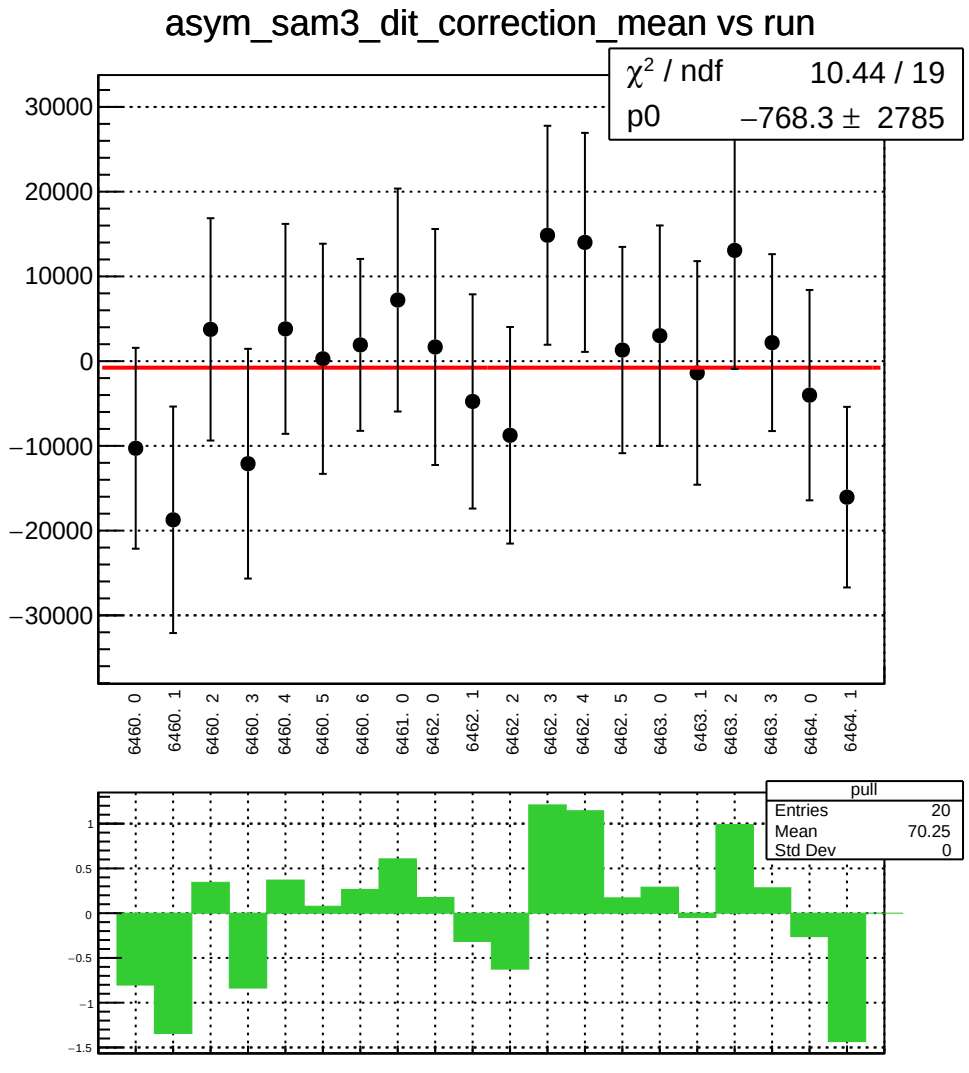

pull1D
Entries 20
Mean 0.01251
Std Dev 0.7255
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

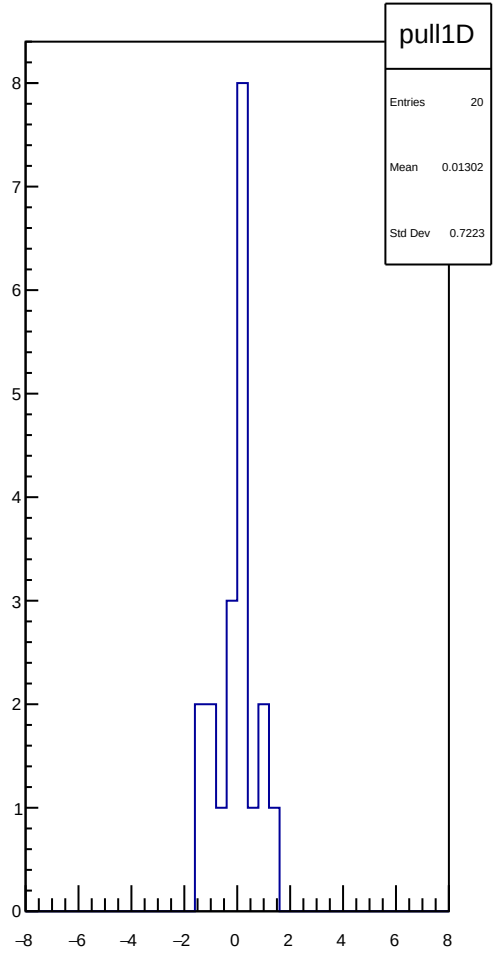

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1112 / 19
p0 1291 ± 2.031
1400
1350
1300
1250
1200
1150
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

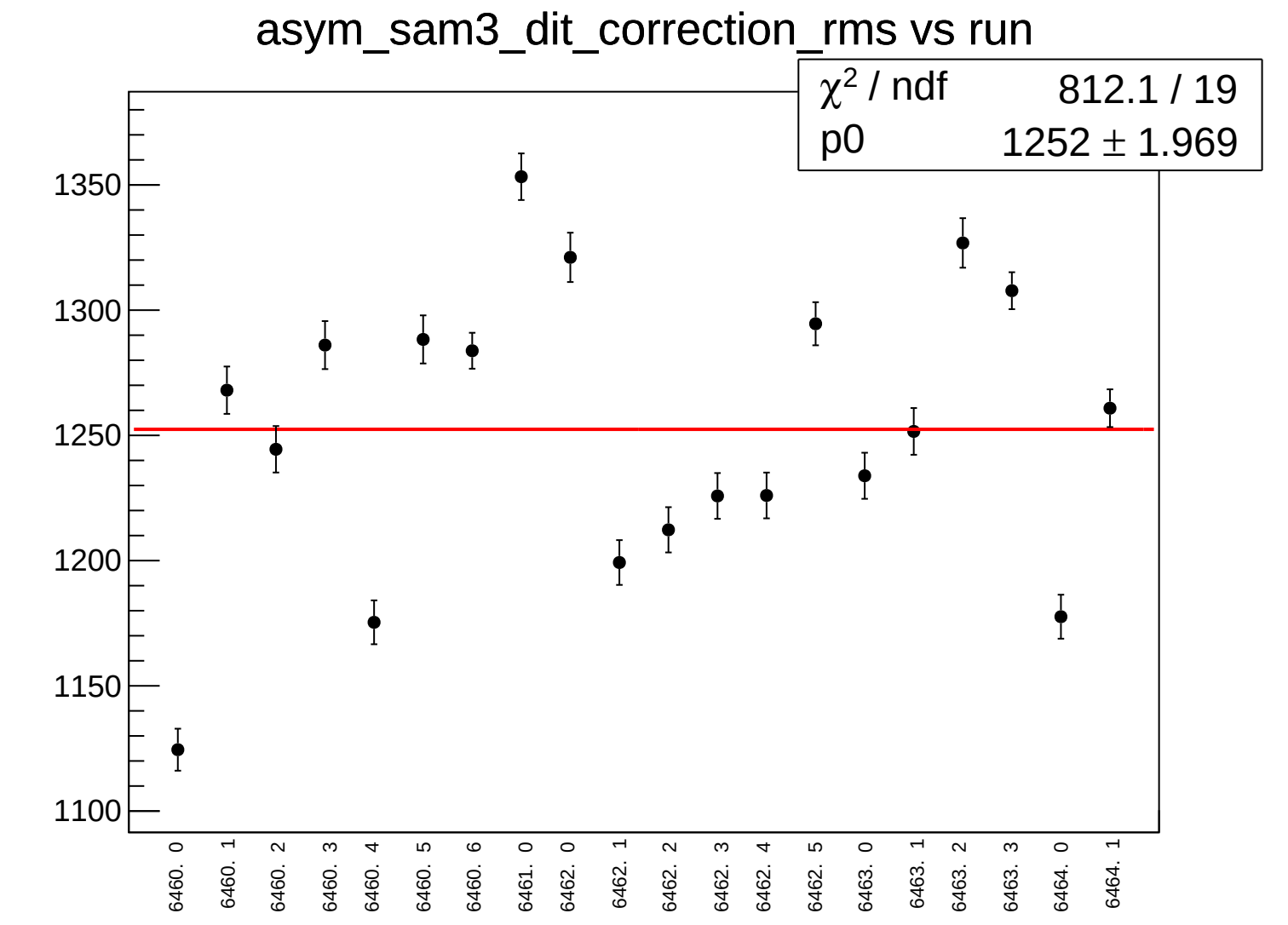

dit_asym_sam3_mean vs run
χ^2 / ndf 16.28 / 19
p0 362.6 ± 243.2
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.74
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

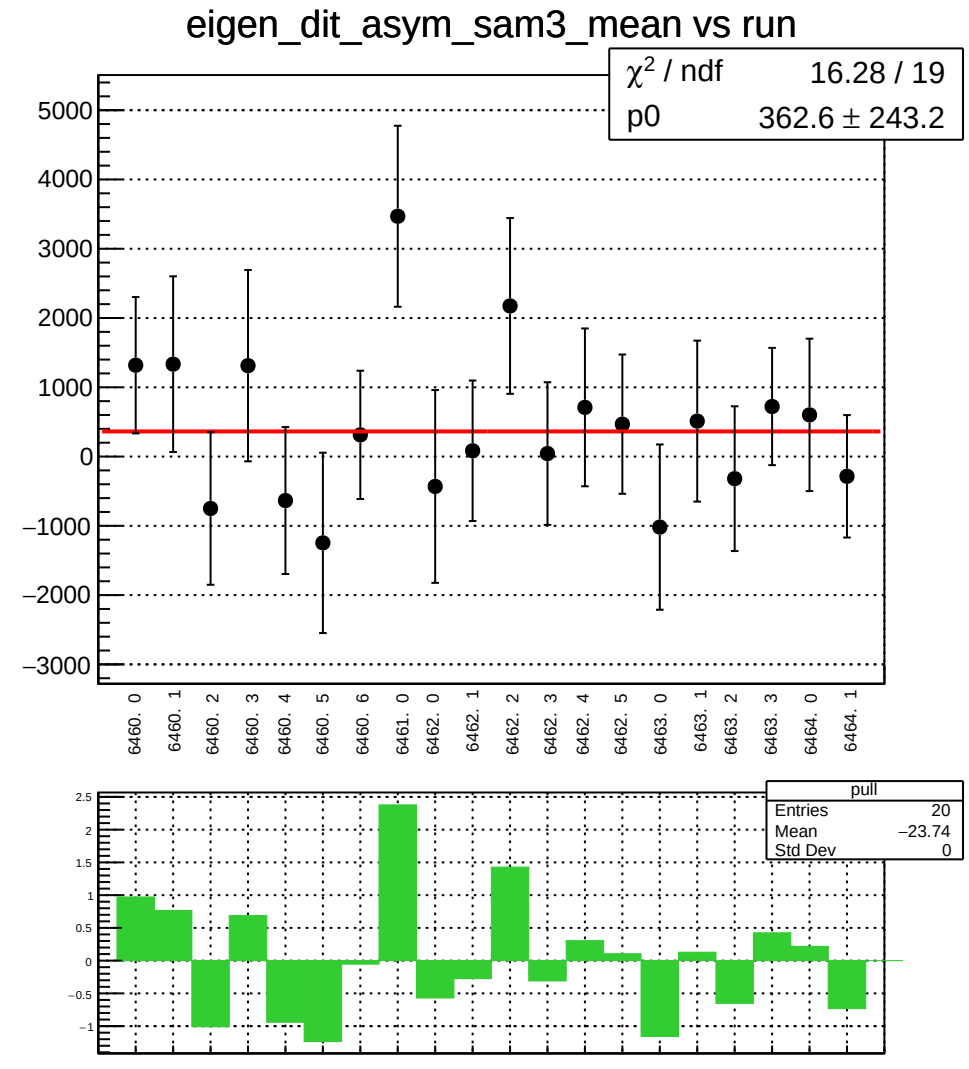

pull1D
Entries 20
Mean 0.02366
Std Dev 0.9019
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

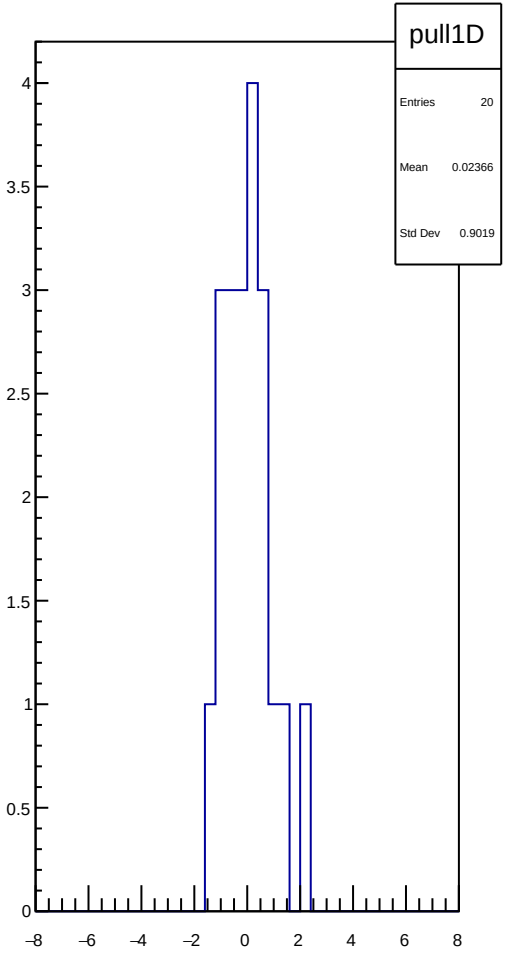

dit_asym_sam3_rms vs run
χ² / ndf 4086 / 19
p0 108.9 ± 0.172
130
120
110
100
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

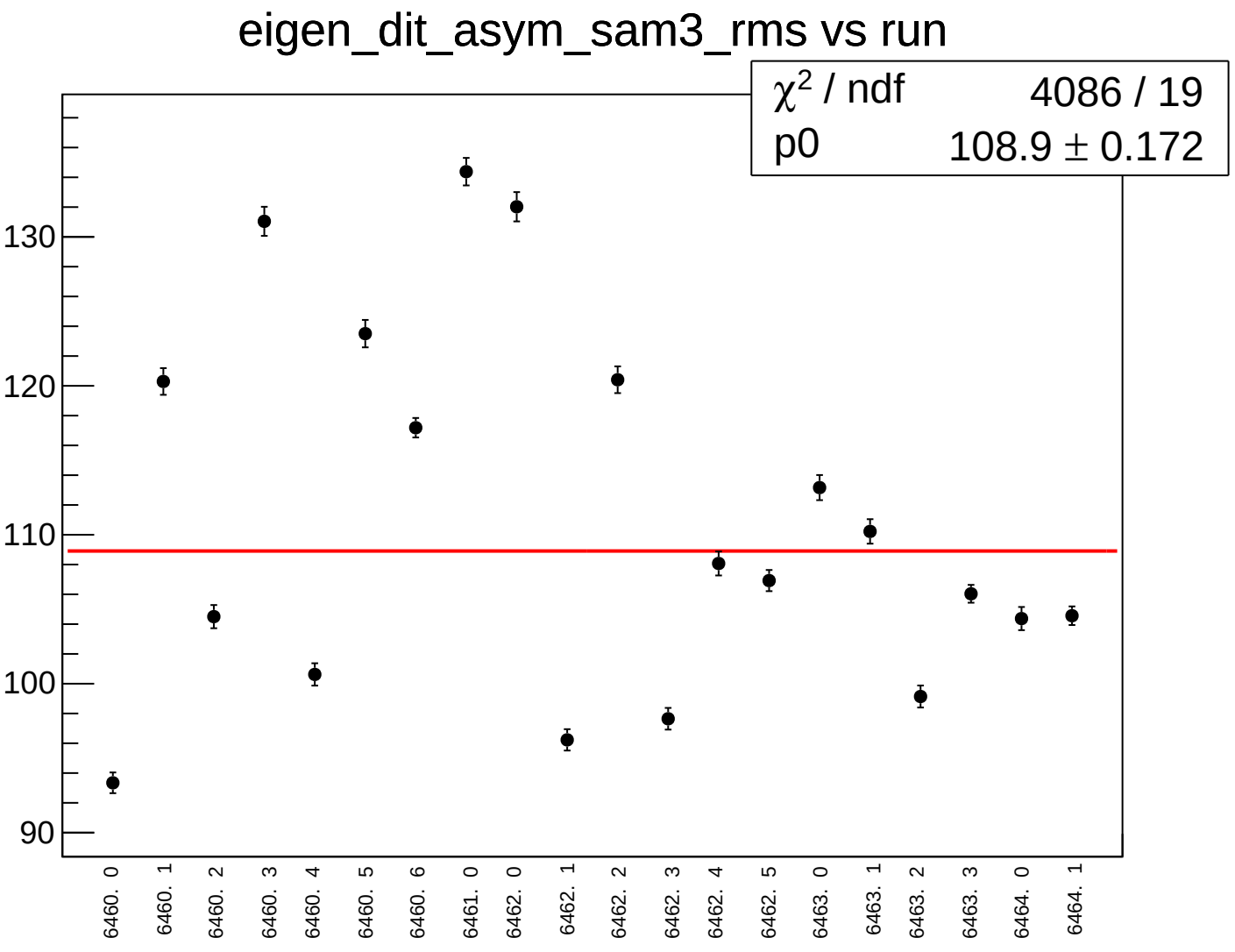

asym_sam3_dit_correction_mean vs run
χ² / ndf 10.44 / 19
p0 −768.3 ± 2785
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 70.25
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

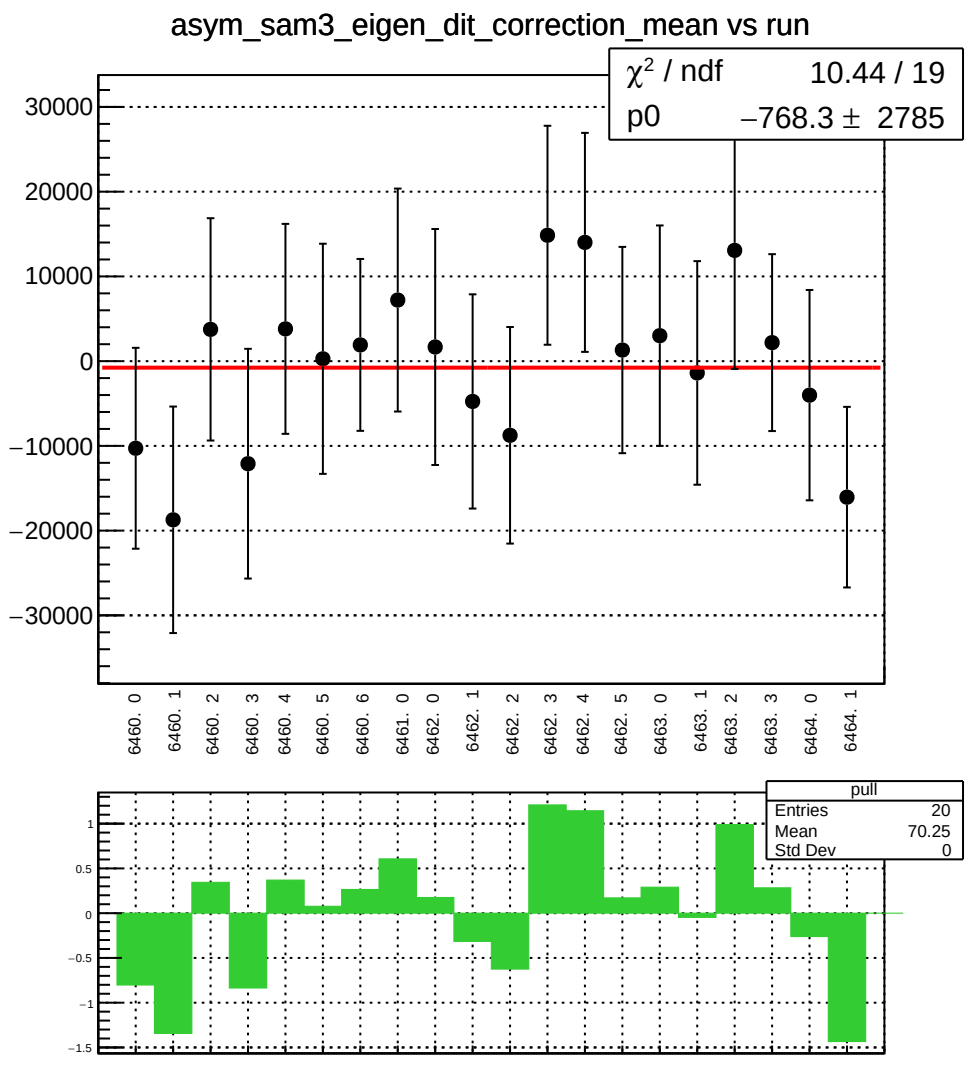

pull1D
Entries 20
Mean 0.01302
Std Dev 0.7223
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

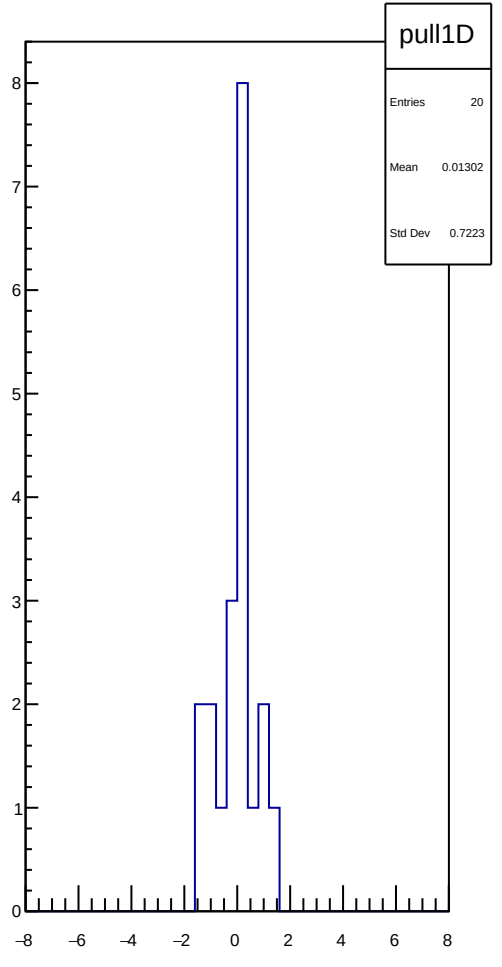

asym_sam3_dit_correction_rms vs run
χ² / ndf 812.1 / 19
p0 1252 ± 1.969
1350
1300
1250
1200
1150
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

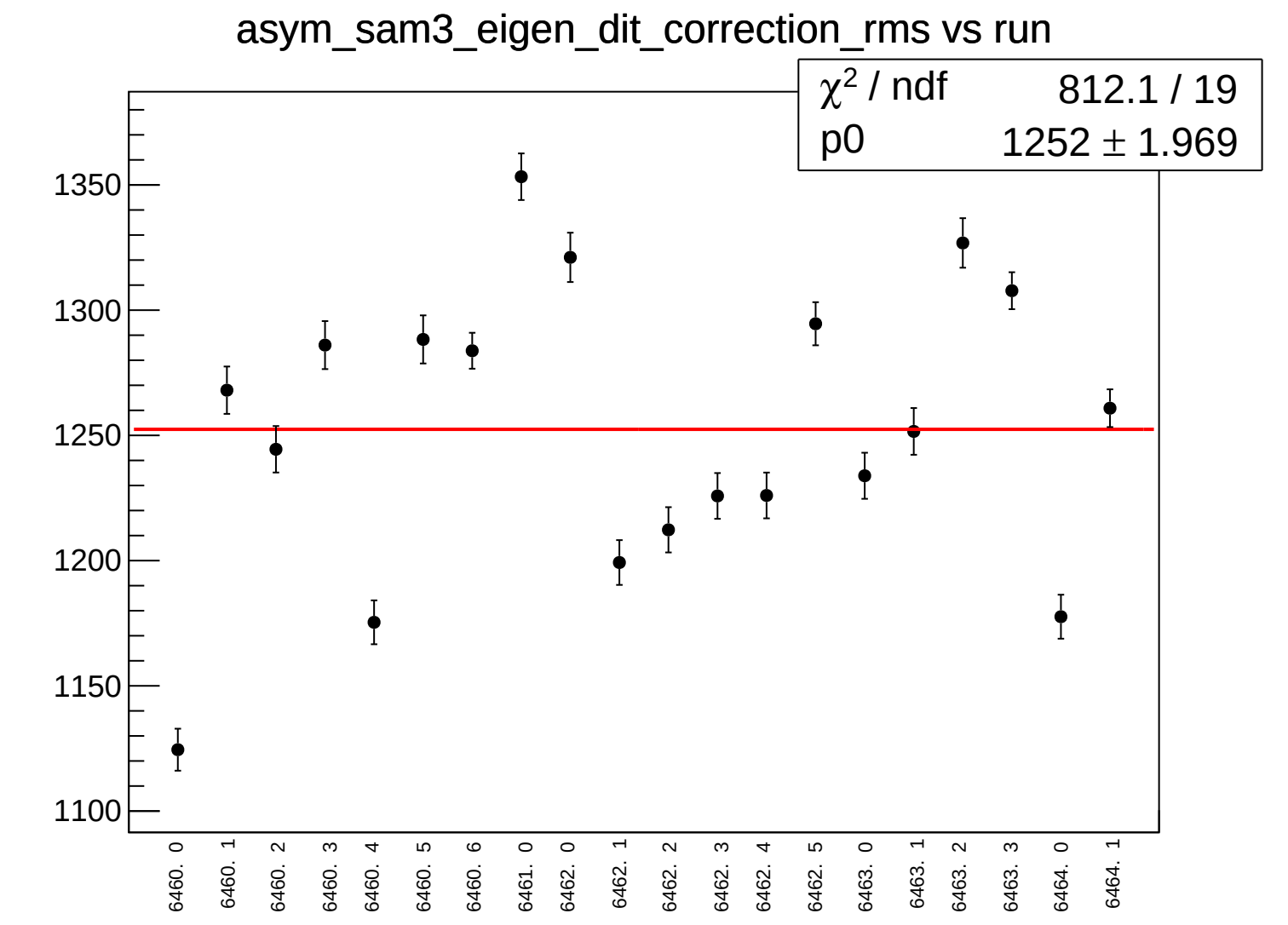

eigen_dit_asym_sam3_mean vs run
χ² / ndf 16.28 / 19
p0 362.6 ± 243.2
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.74
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

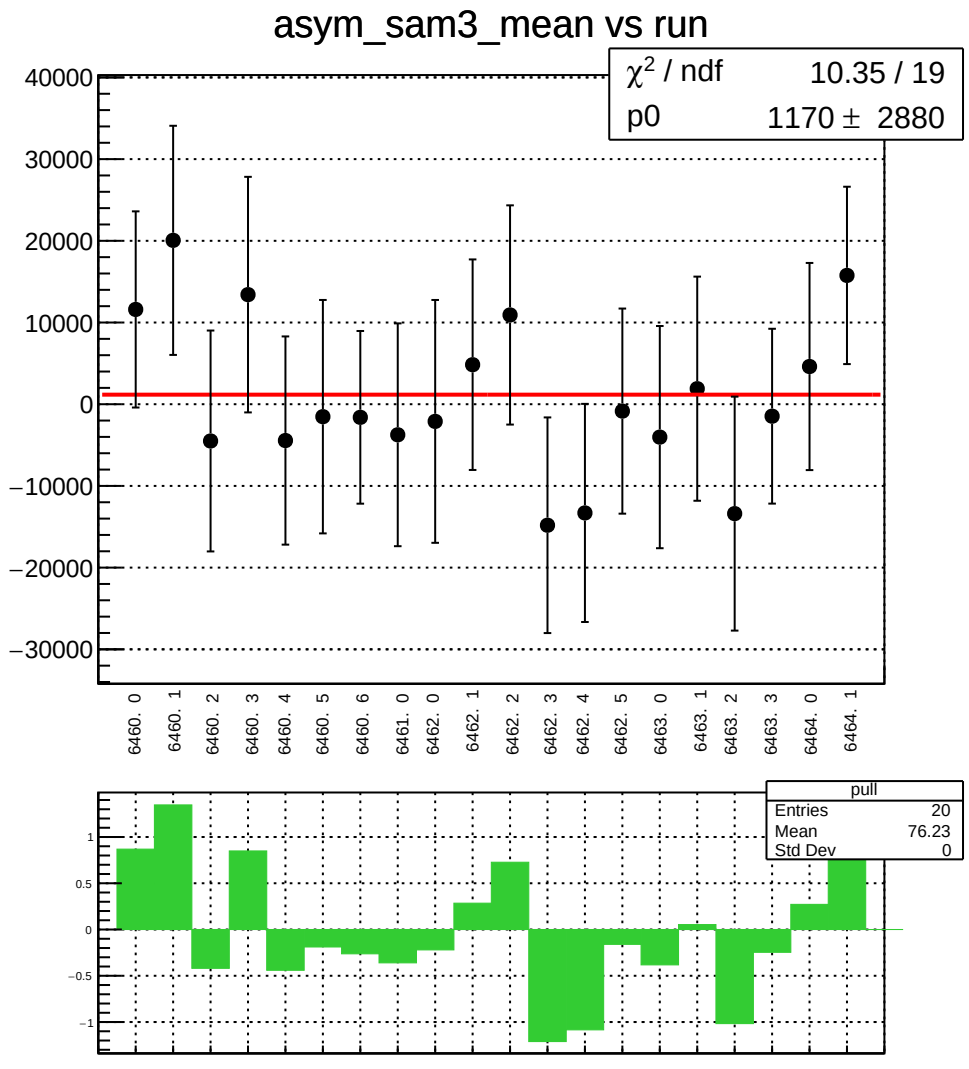

pull1D
Entries 20
Mean 0.02366
Std Dev 0.9019
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

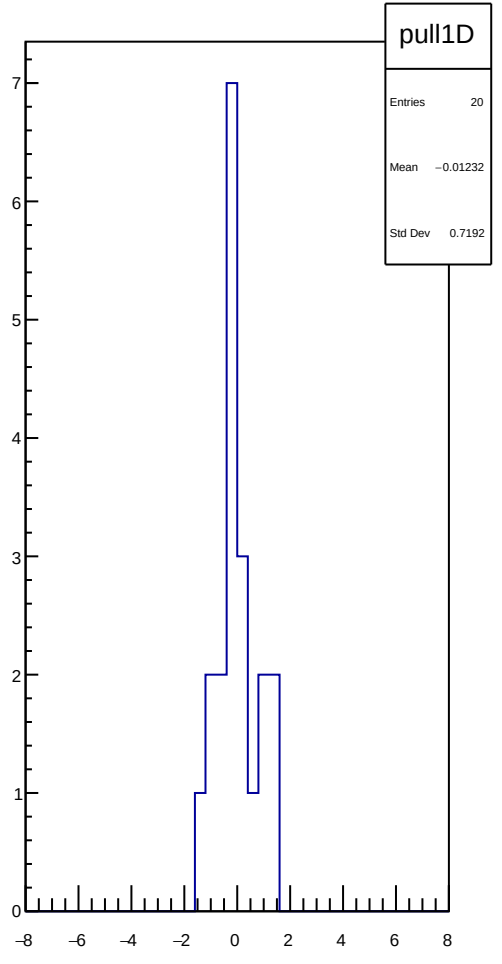

eigen_dit_asym_sam3_rms vs run
χ² / ndf 4086 / 19
p0 108.9 ± 0.172
130
120
110
100
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

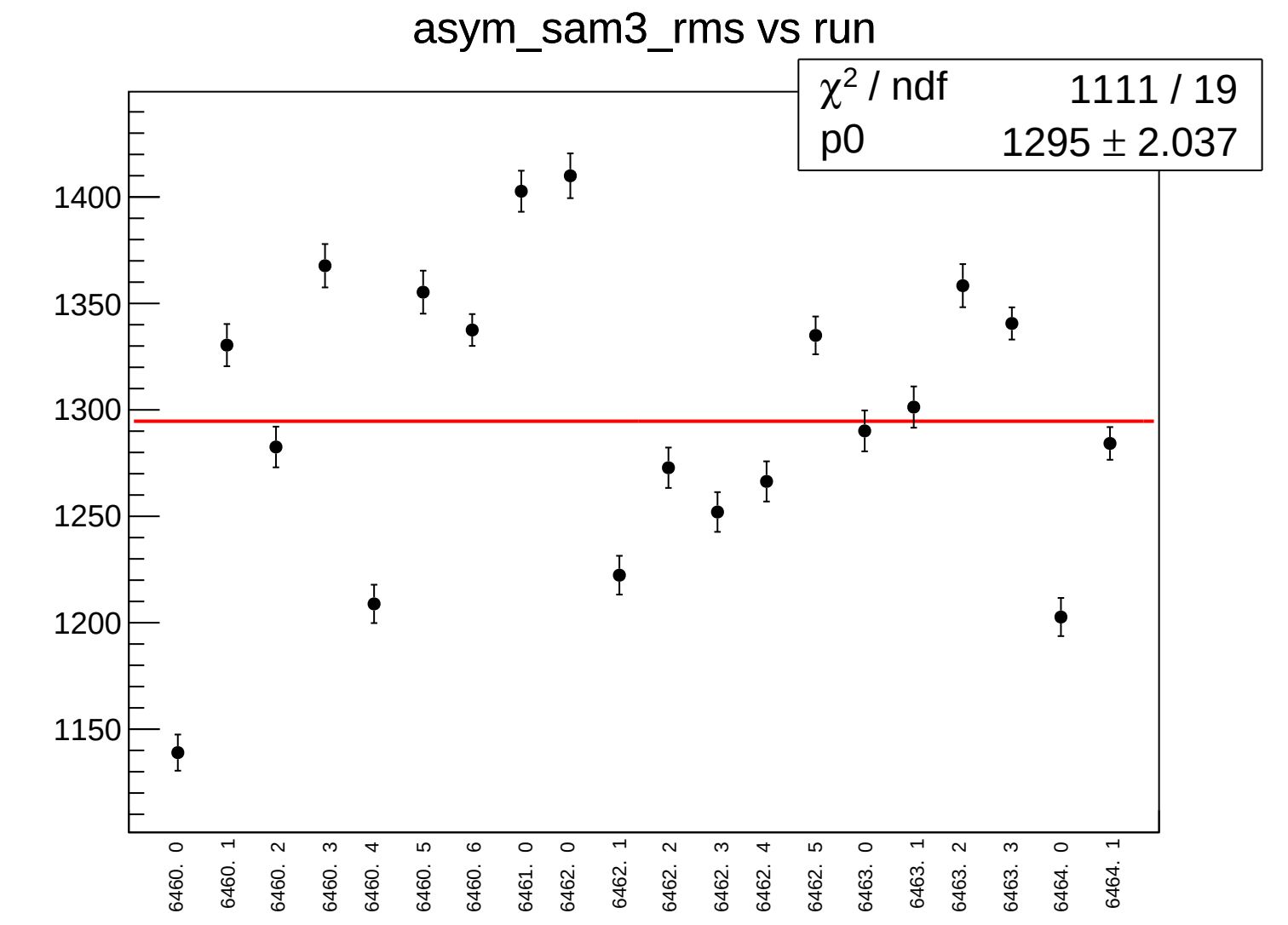

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 10.44 / 19
p0 −768.3 ± 2785
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 70.25
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

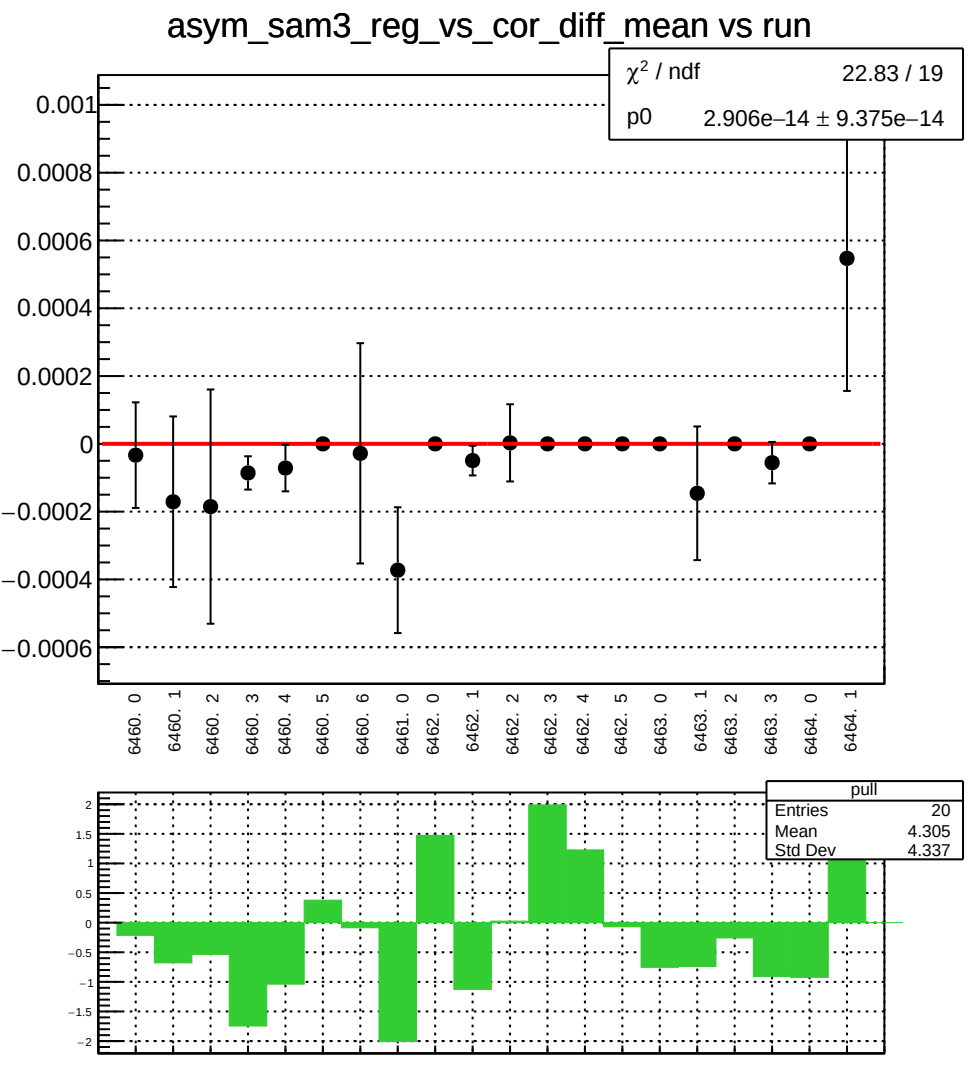

pull1D
Entries 20
Mean 0.01302
Std Dev 0.7223
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

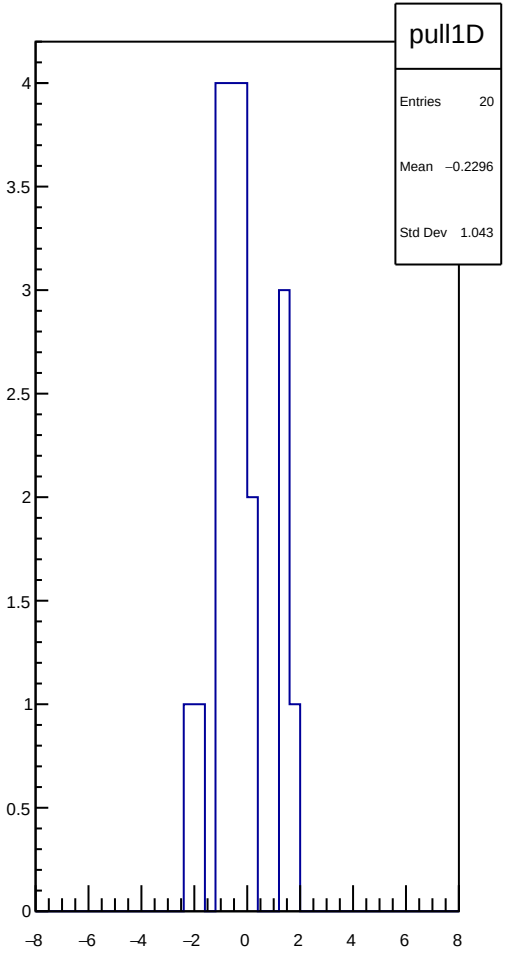

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 812.1 / 19
p0 1252 ± 1.969
1350
1300
1250
1200
1150
1100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

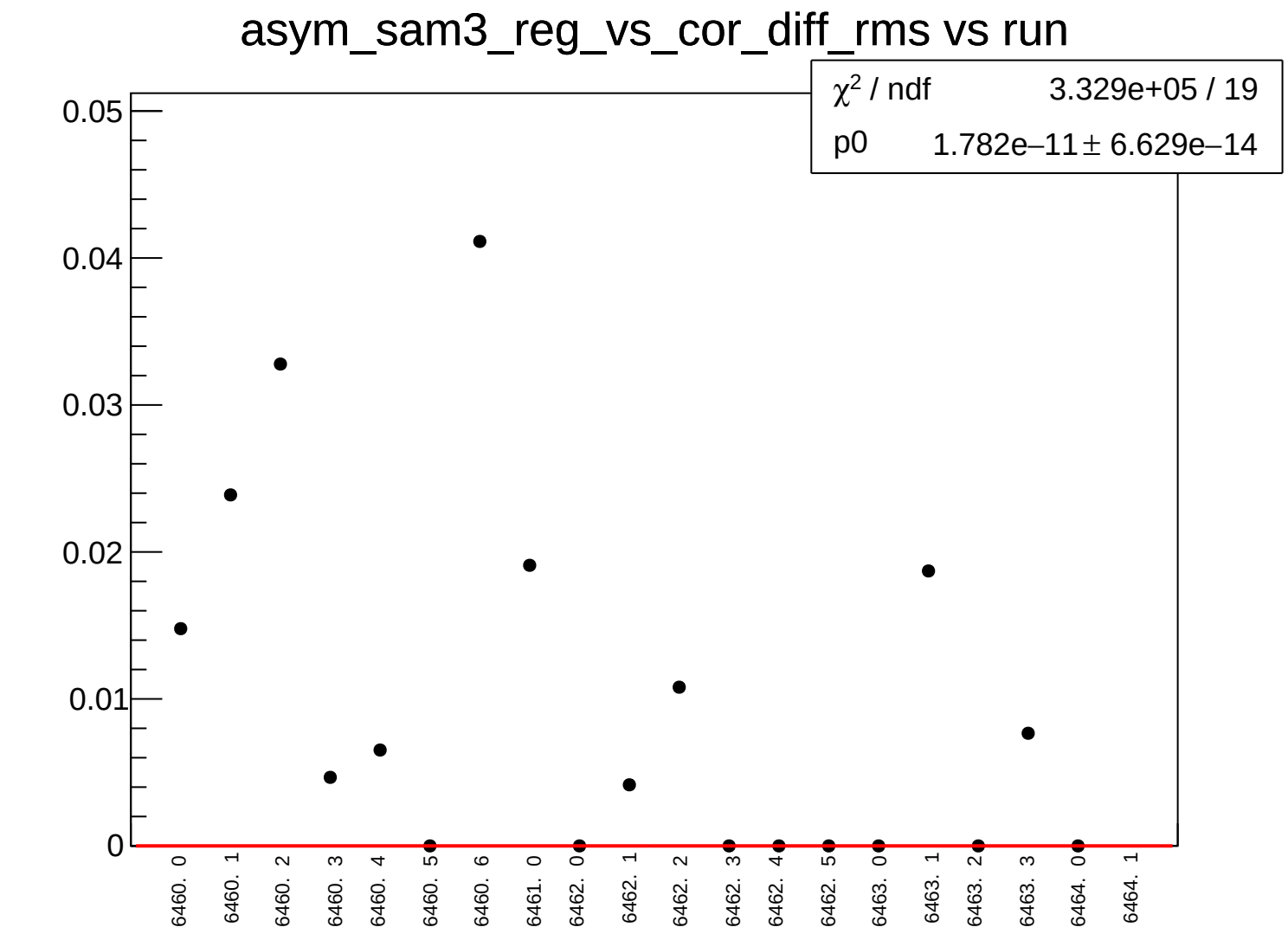

asym_sam3_mean vs run
χ² / ndf 10.35 / 19
p0 1170 ± 2880
40000
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 76.23
Std Dev 0
1
0.5
0
−0.5
−1

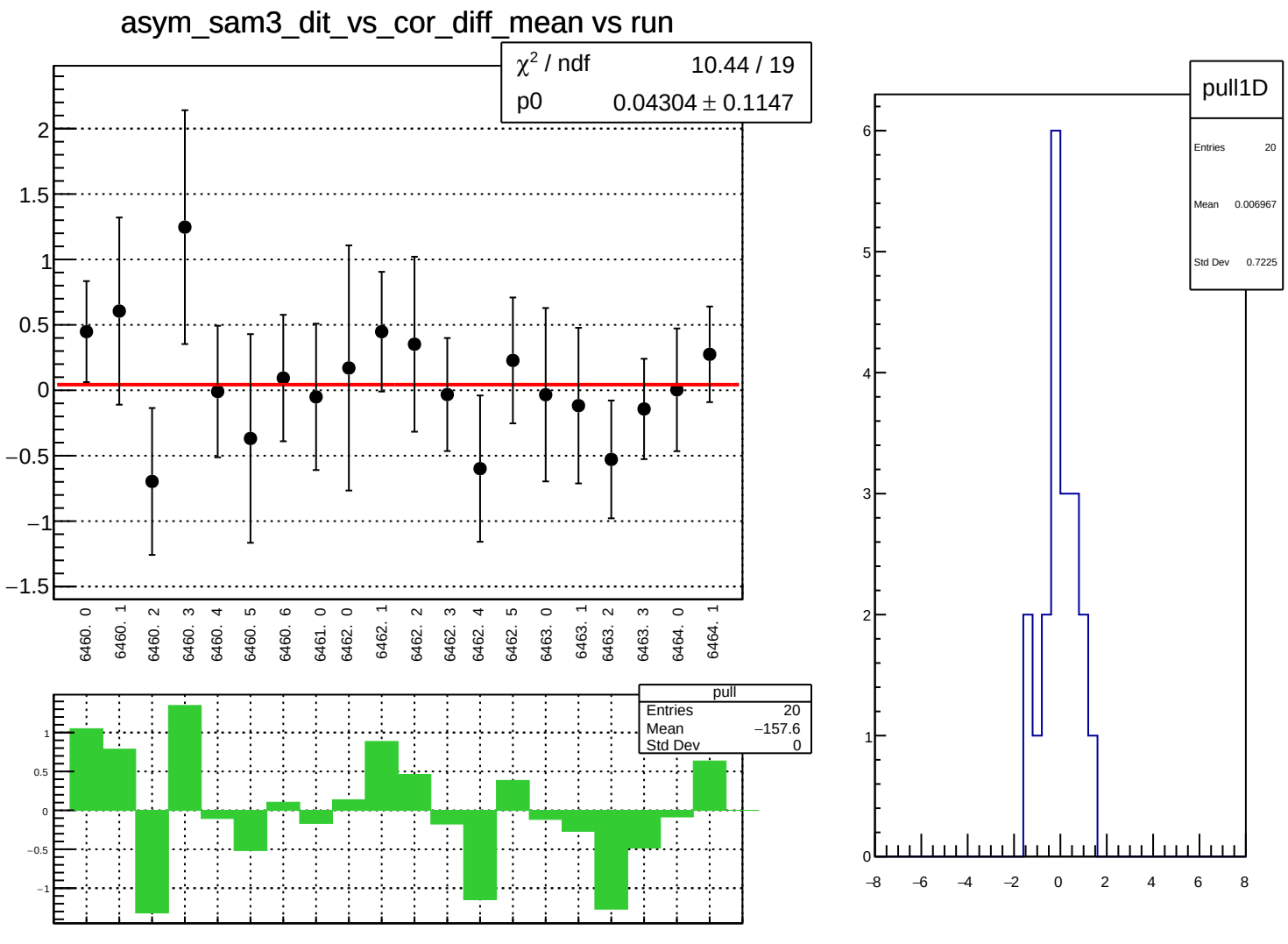

pull1D
Entries 20
Mean −0.01232
Std Dev 0.7192
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

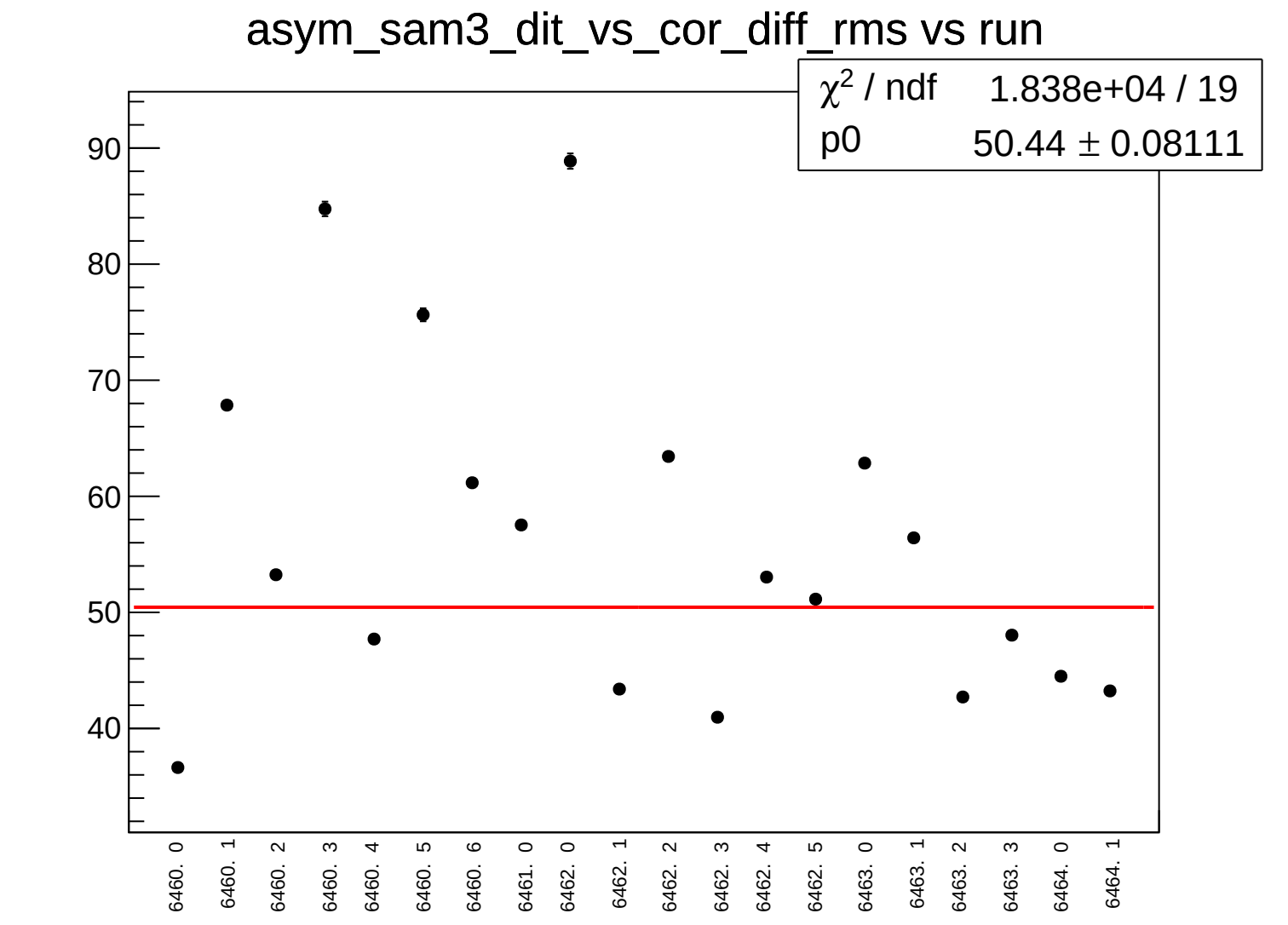

asym_sam3_rms vs run
χ² / ndf 1111 / 19
p0 1295 ± 2.037
1400
1350
1300
1250
1200
1150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

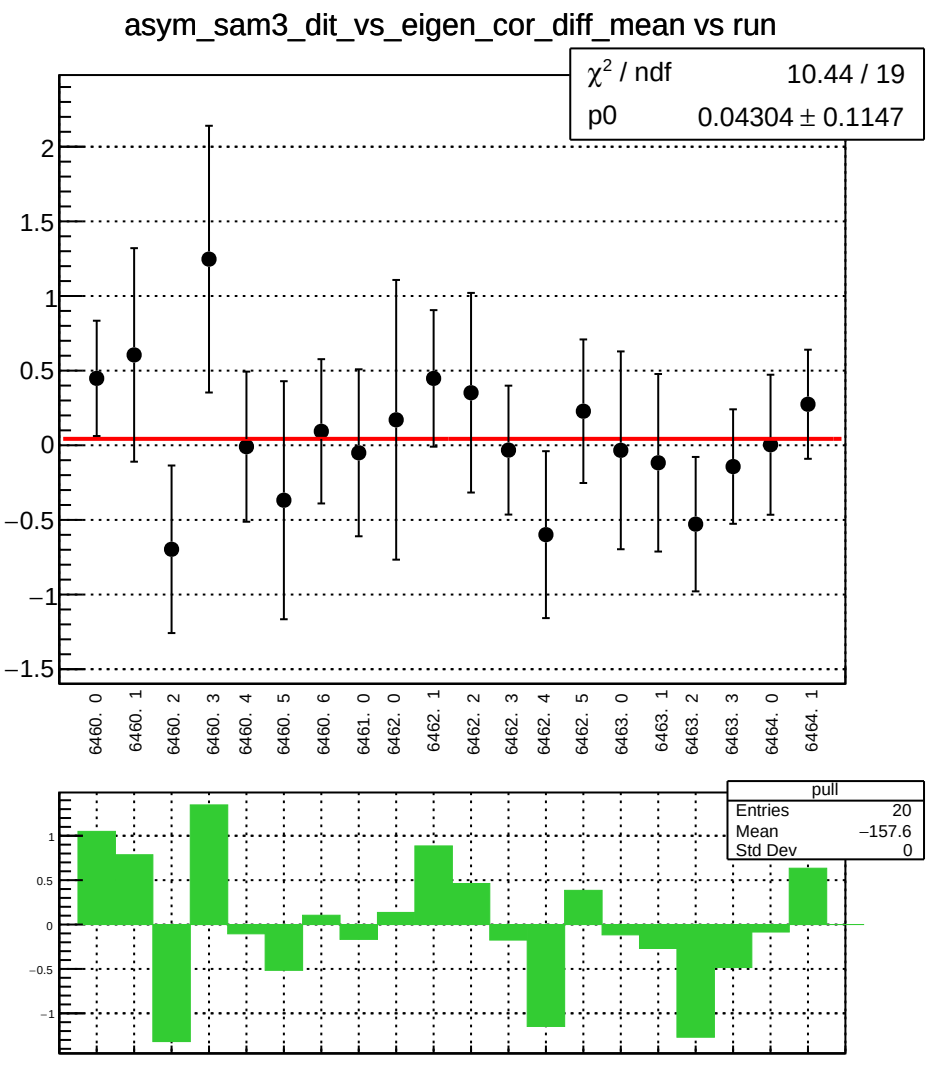

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 22.83 / 19
p0 2.906e−14 ± 9.375e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.305
Std Dev 4.337
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

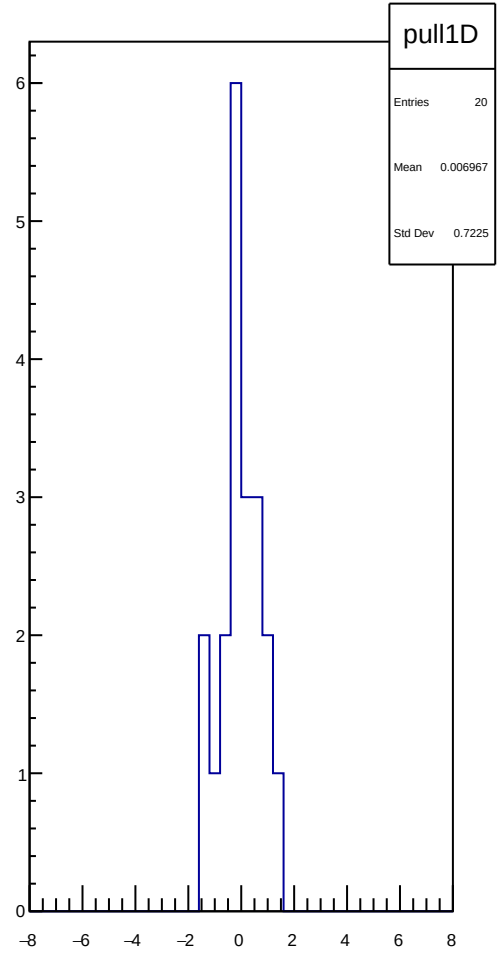

pull1D
Entries 20
Mean −0.2296
Std Dev 1.043
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

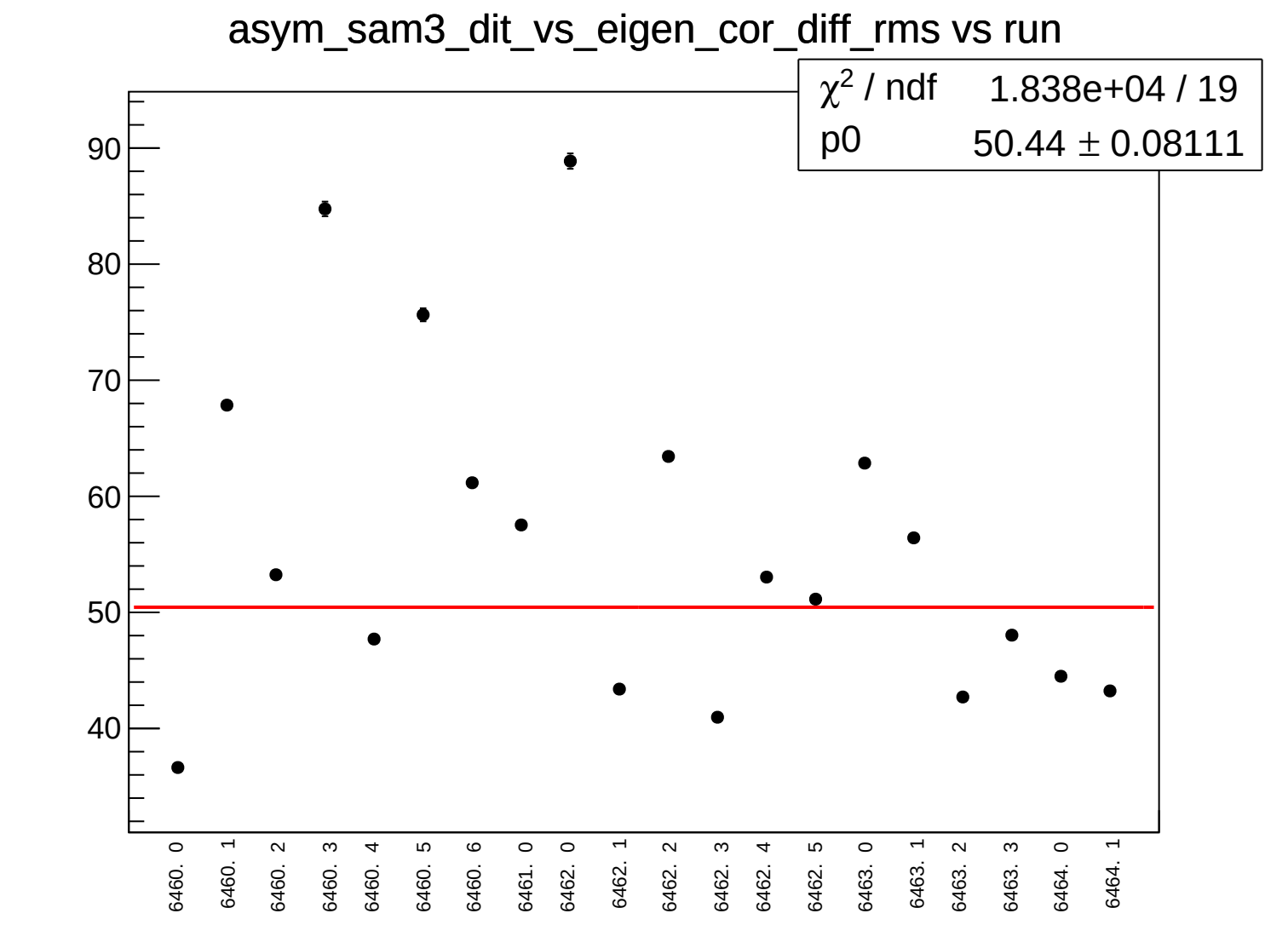

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 3.329e+05 / 19
p0 1.782e−11 ± 6.629e−14
0.05
0.04
0.03
0.02
0.01
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

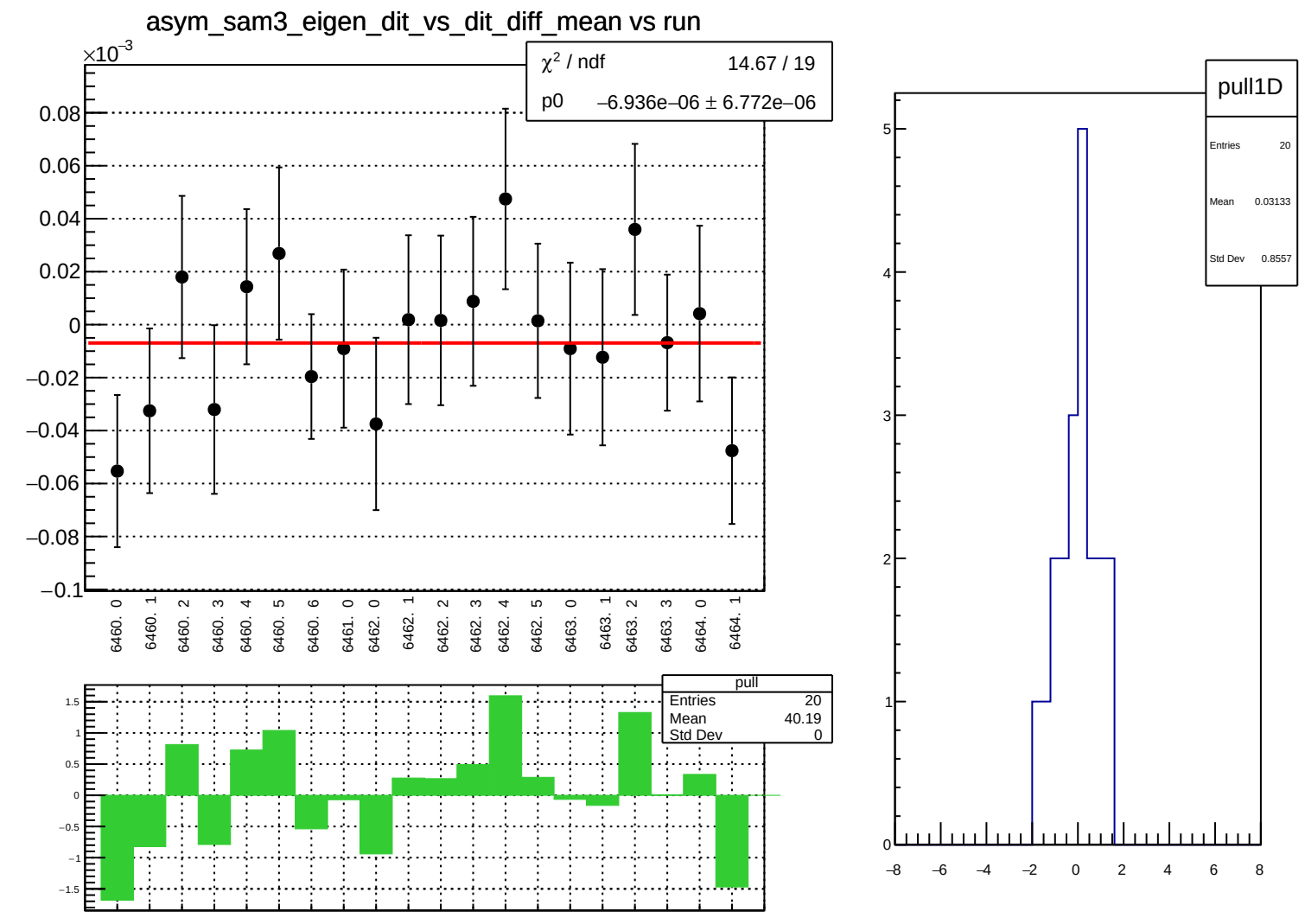

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 10.44 / 19
p0 0.04304 ± 0.1147
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −157.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.006967
Std Dev 0.7225
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

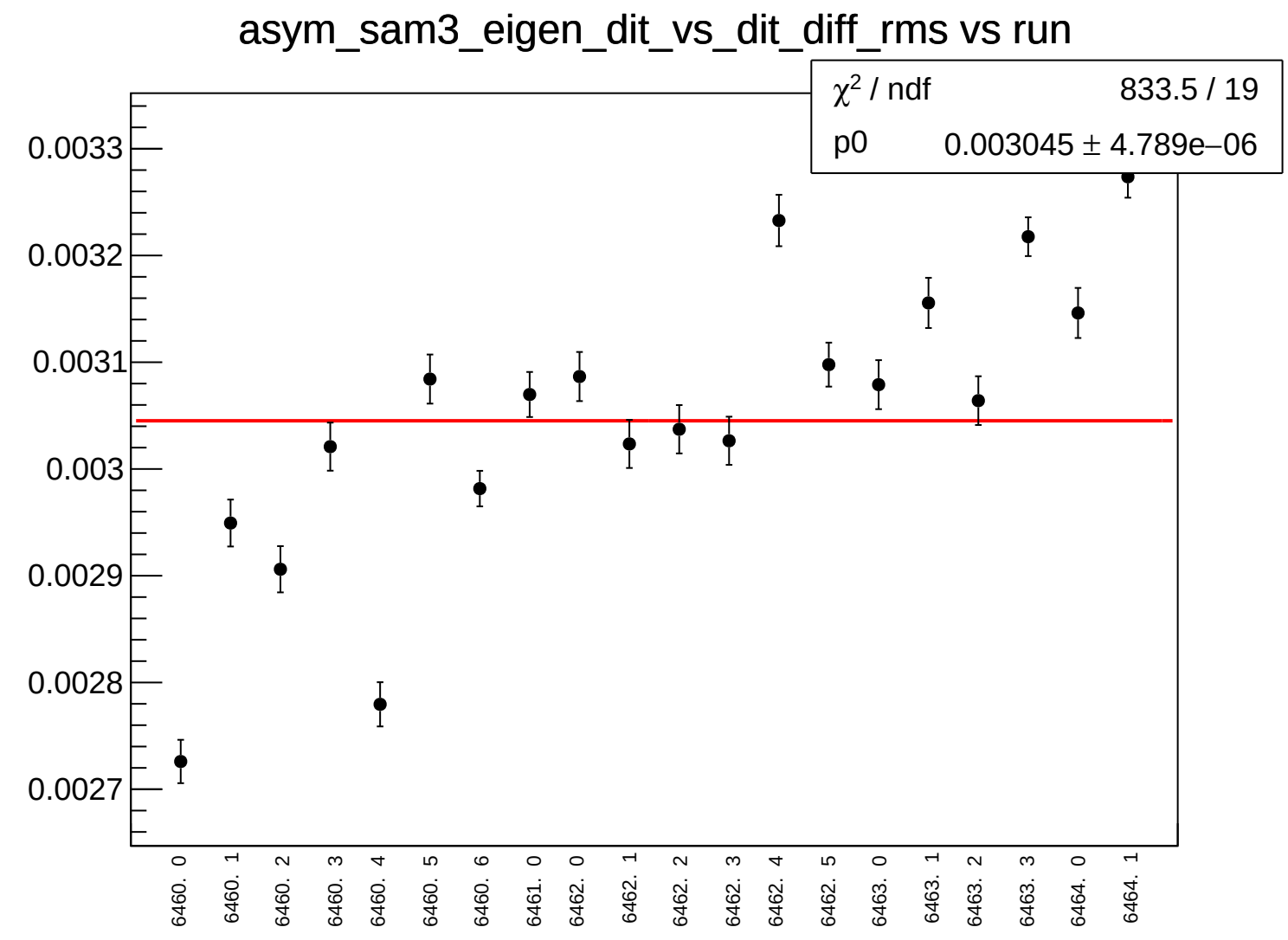

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.838e+04 / 19
p0 50.44 ± 0.08111
90
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

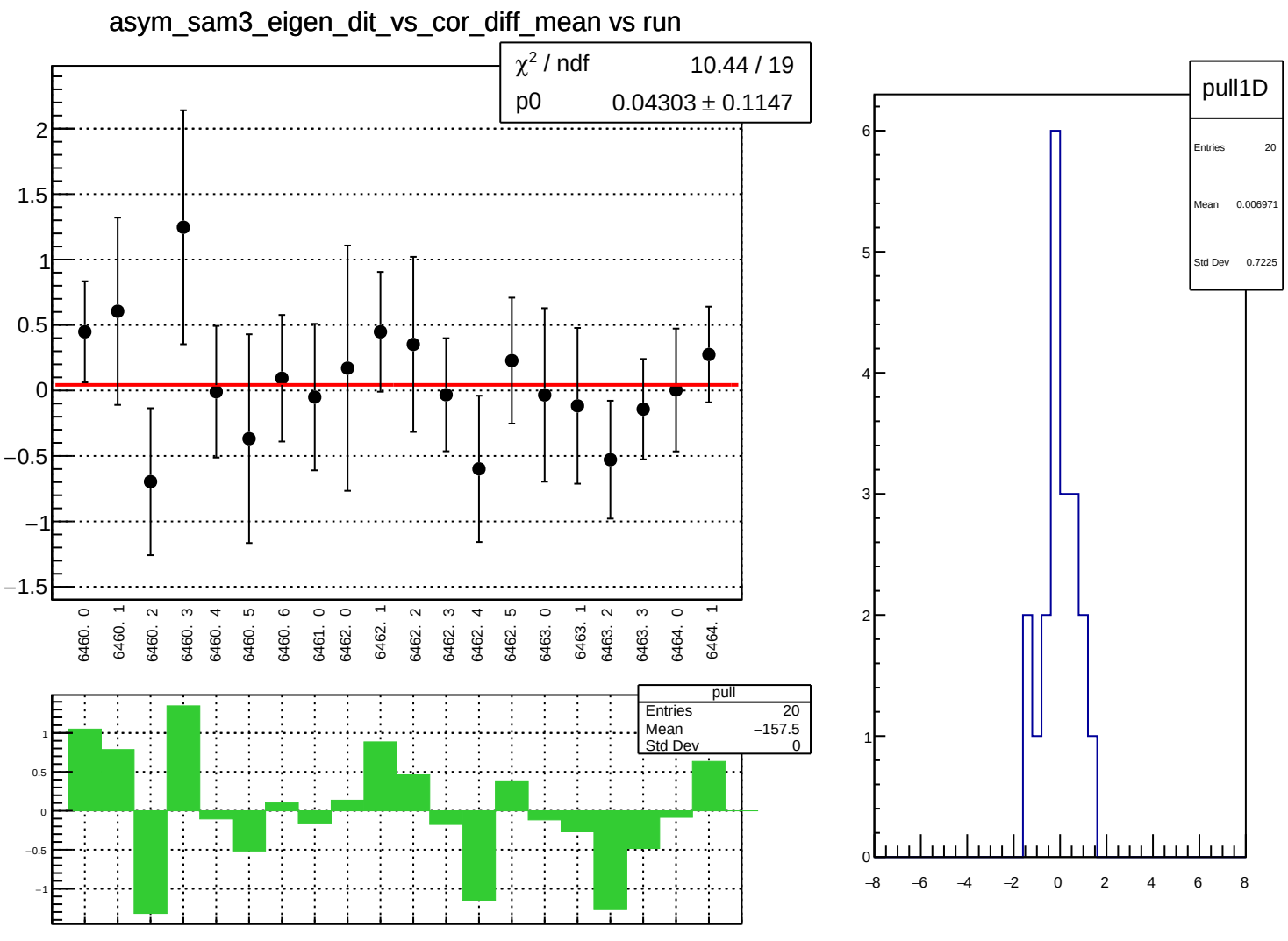

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.44 / 19
p0 0.04304 ± 0.1147
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −157.6
Std Dev 0
1
0.5
0
−0.5
−1

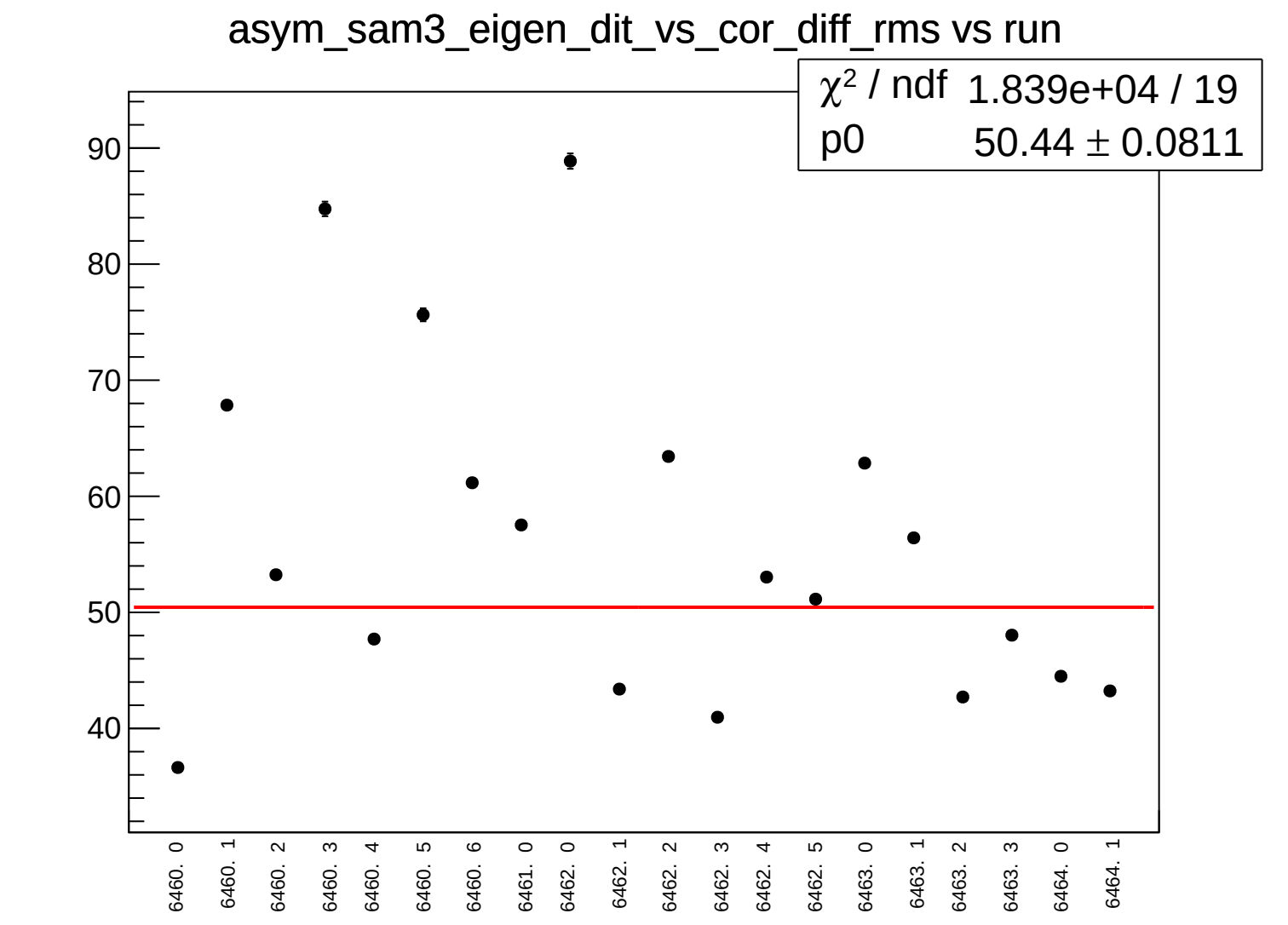

pull1D
Entries 20
Mean 0.006967
Std Dev 0.7225
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

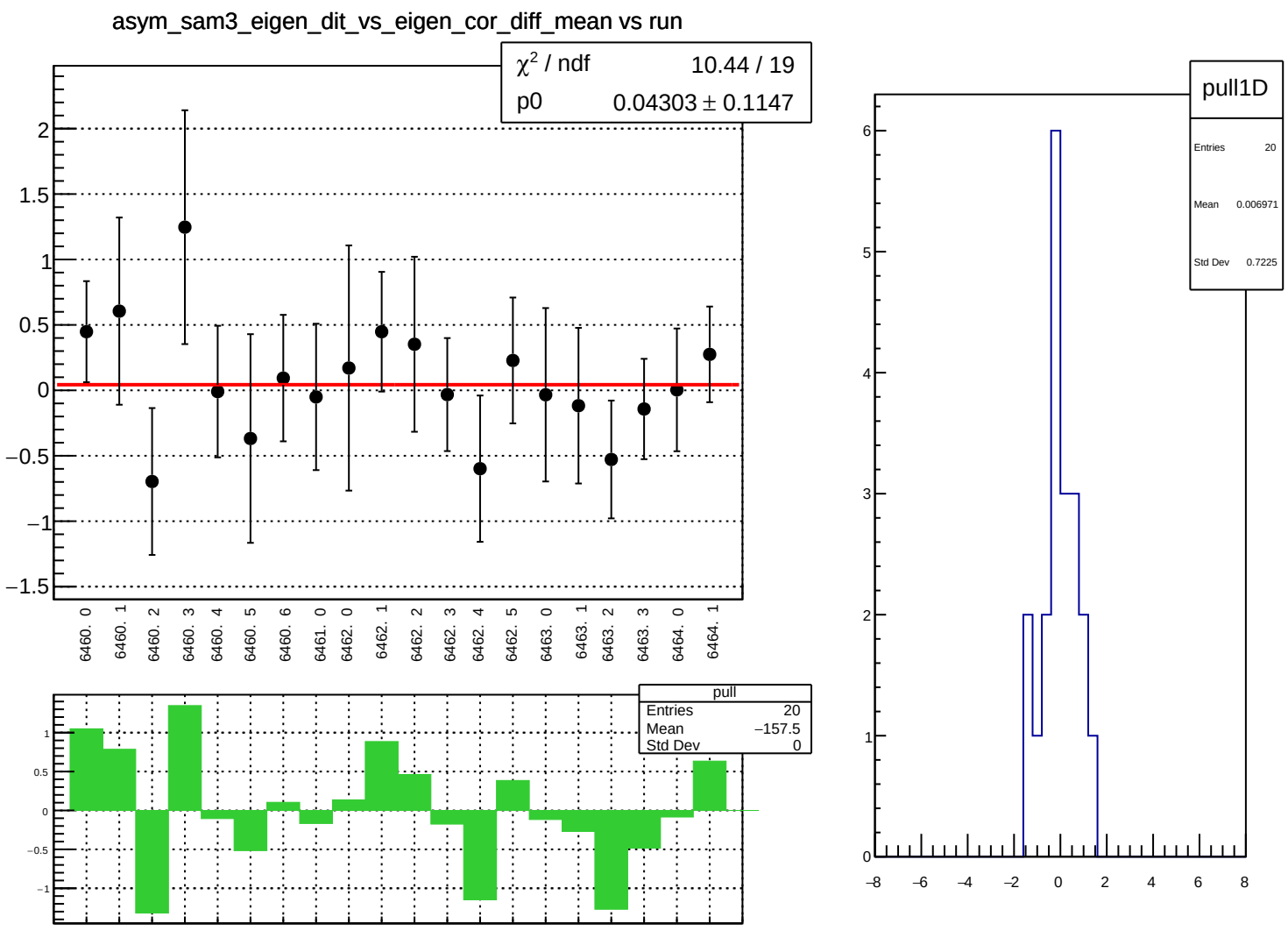

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.838e+04 / 19
p0 50.44 ± 0.08111
90
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

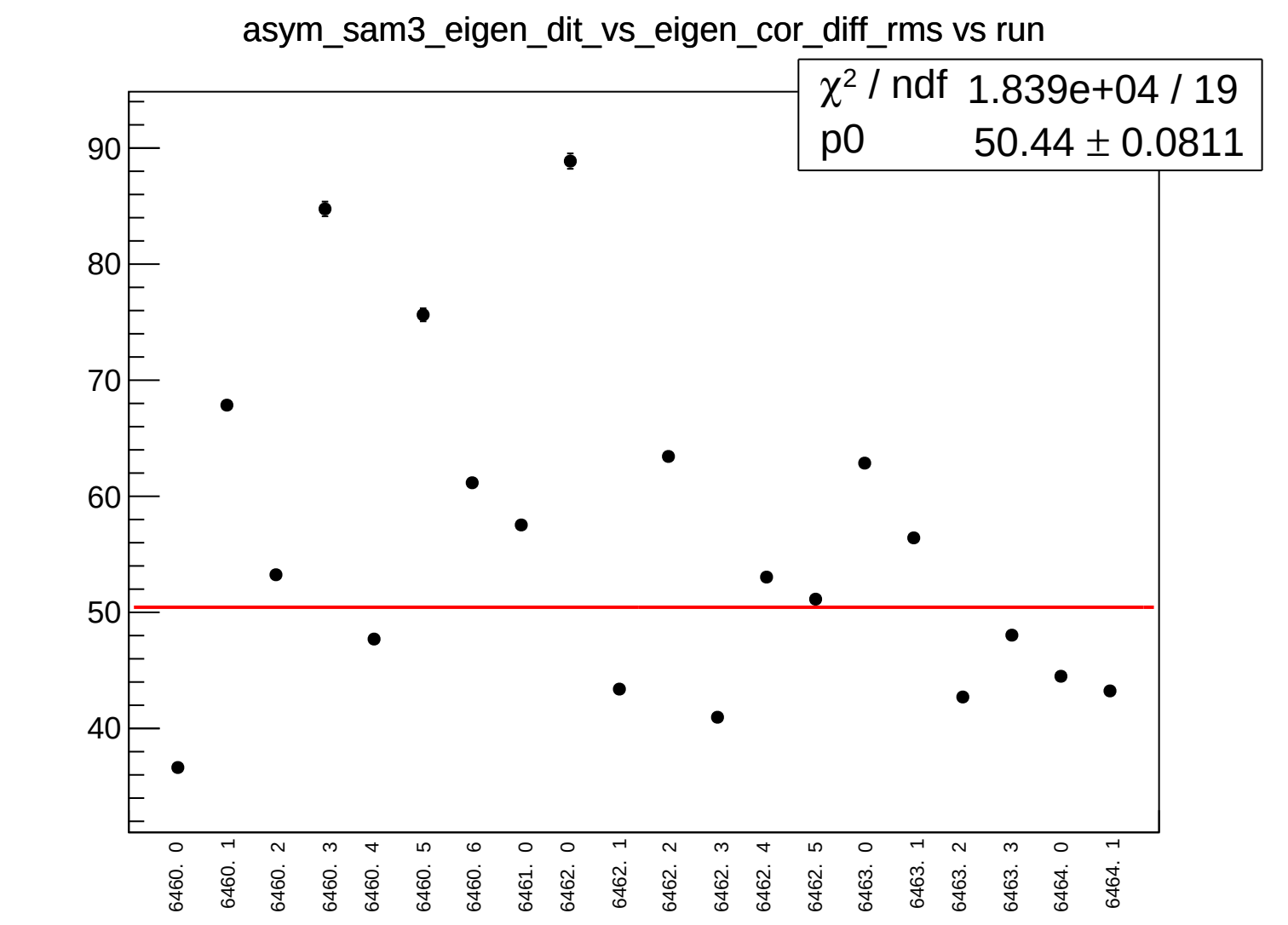

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.67 / 19
p0 −6.936e−06 ± 6.772e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 40.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03133
Std Dev 0.8557
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

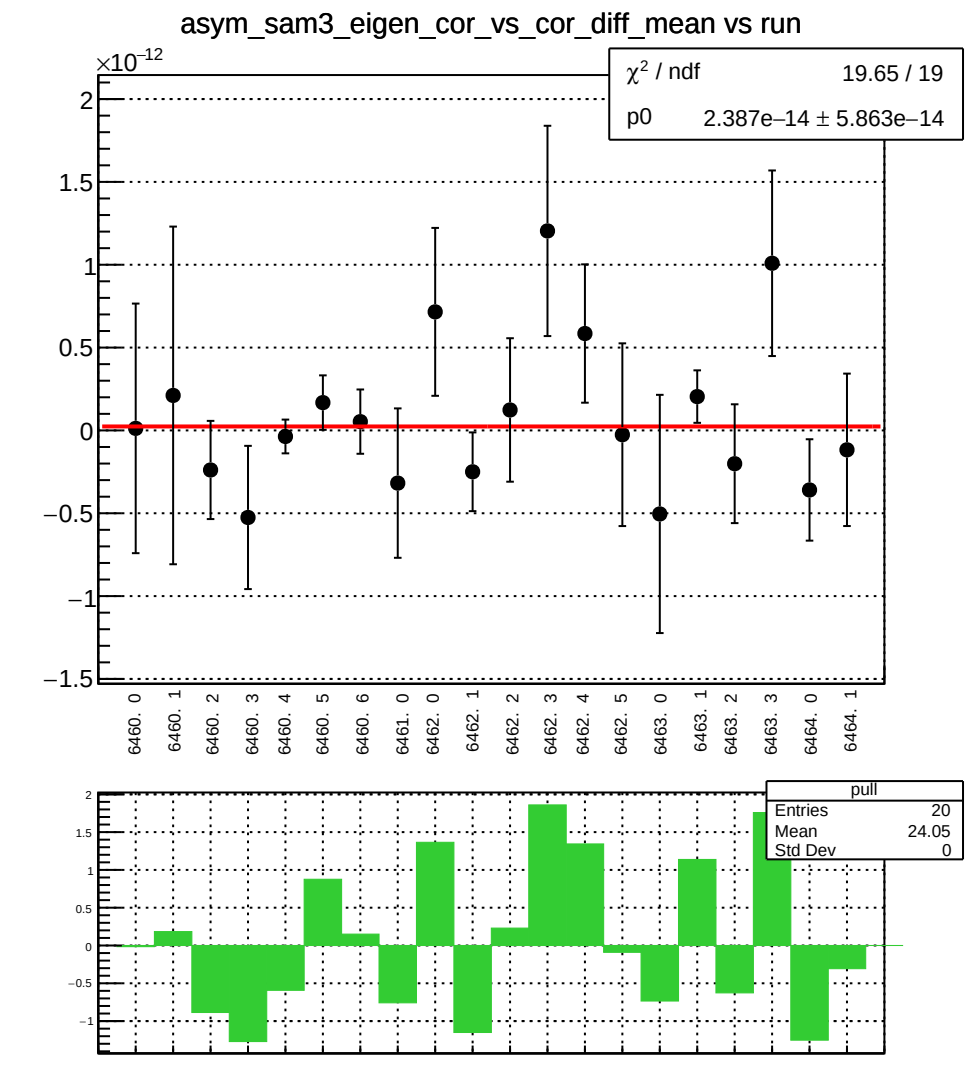

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 833.5 / 19
p0 0.003045 ± 4.789e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

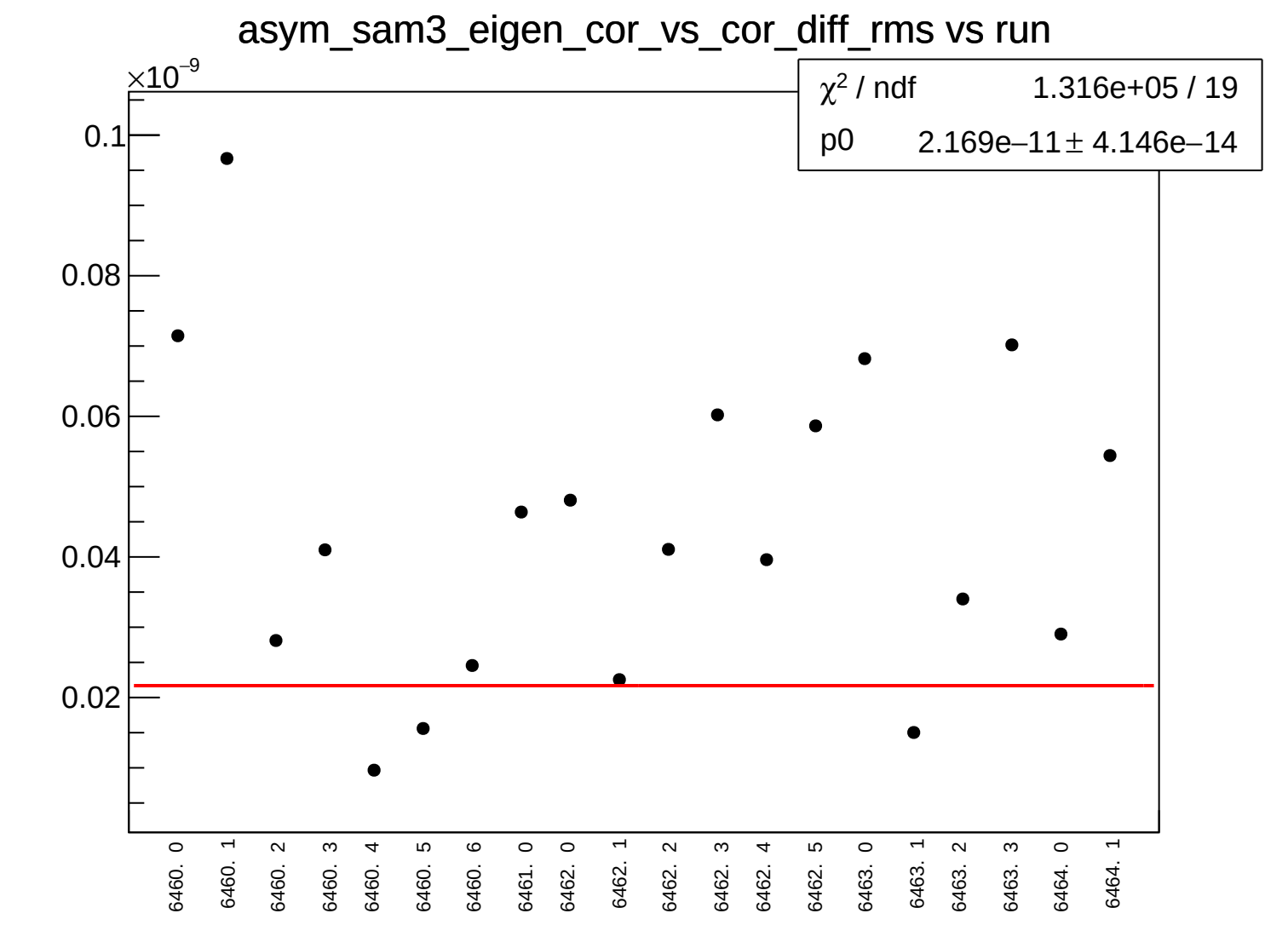

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 10.44 / 19
p0 0.04303 ± 0.1147
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −157.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.006971
Std Dev 0.7225
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

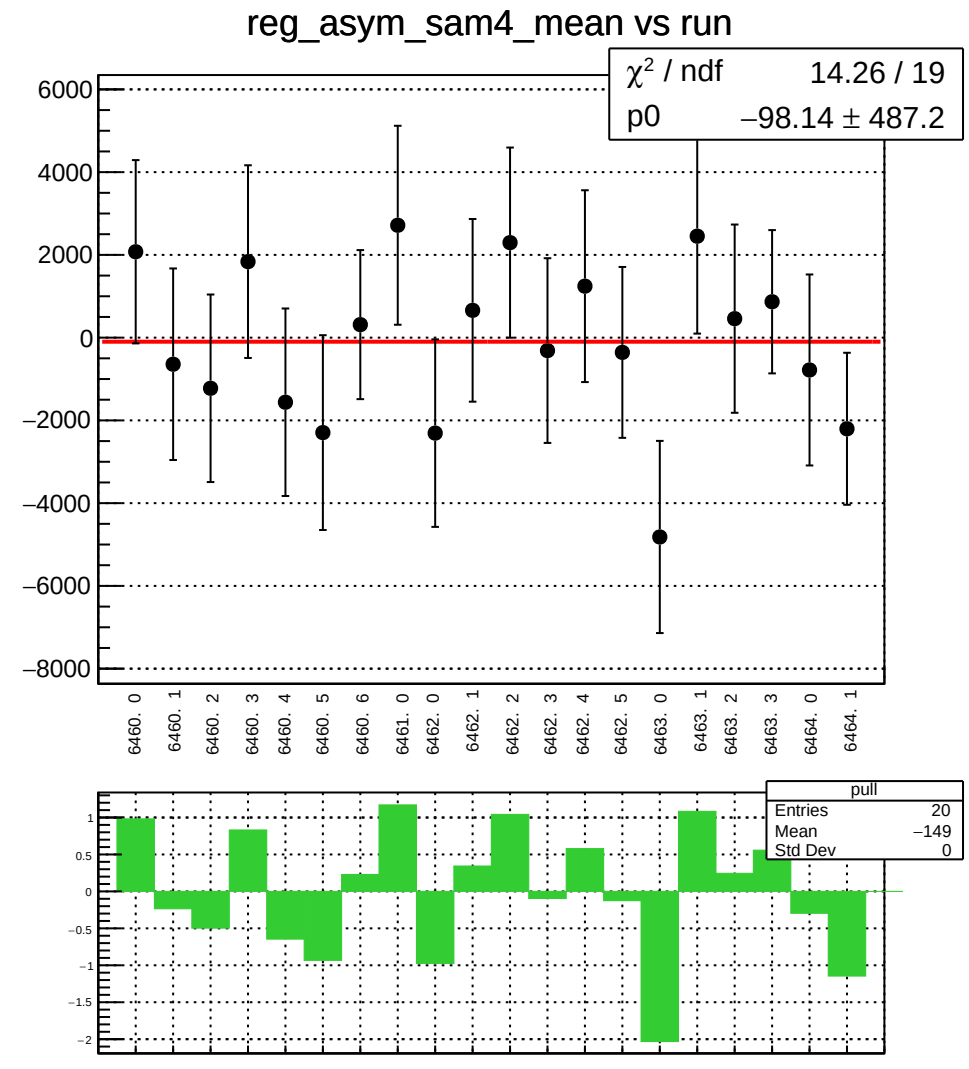

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.839e+04 / 19
p0 50.44 ± 0.0811
90
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

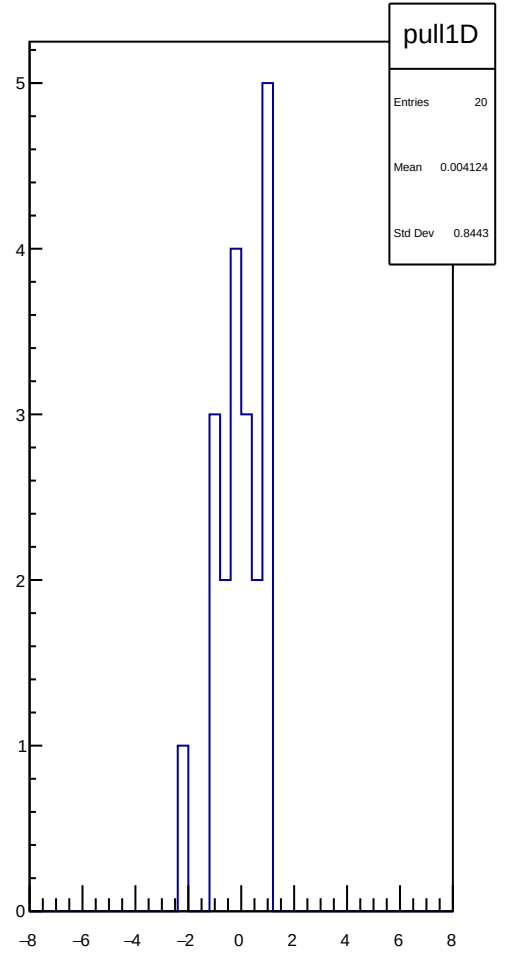

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.44 / 19
p0 0.04303 ± 0.1147
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −157.5
Std Dev 0
pull1D
Entries 20
Mean 0.006971
Std Dev 0.7225

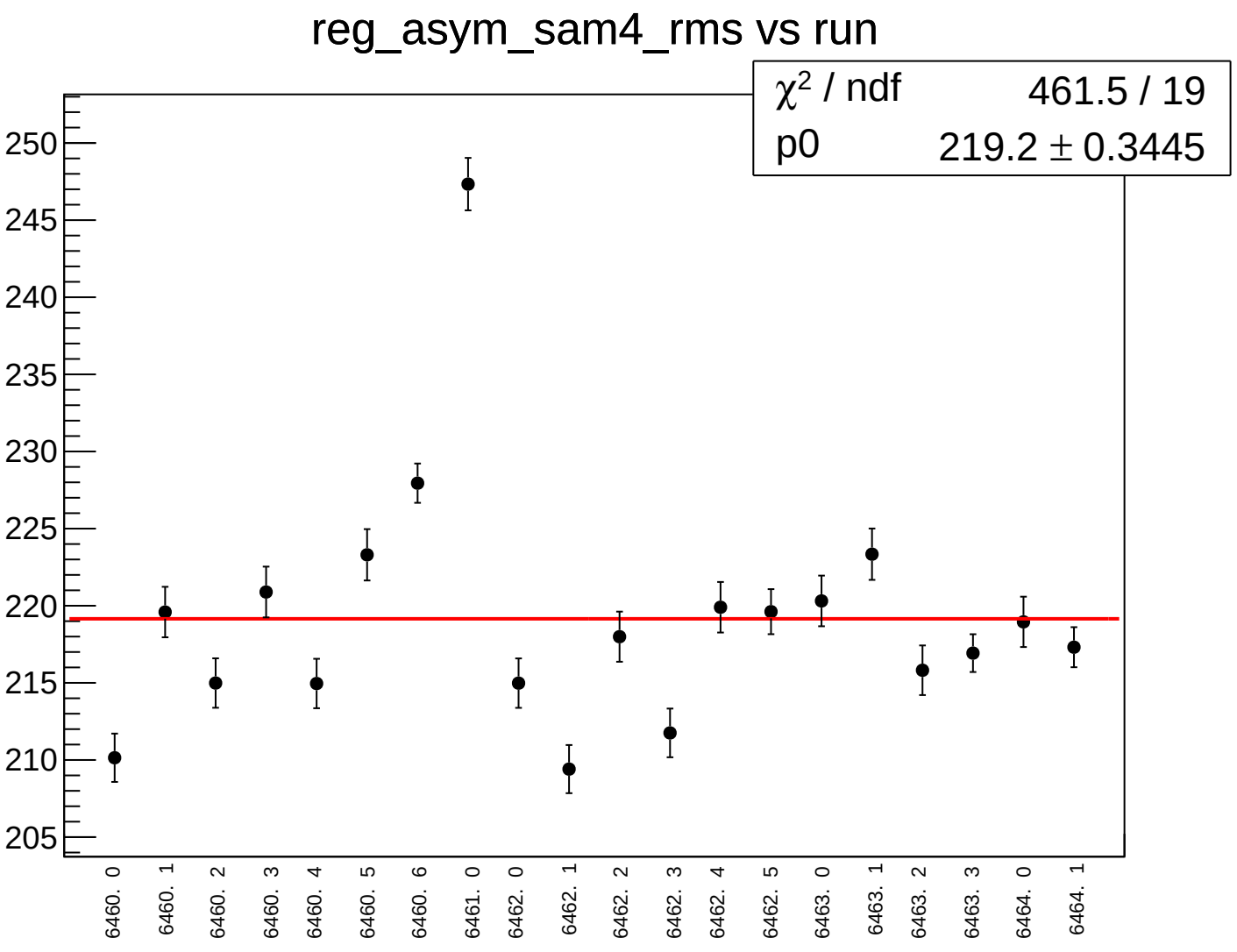

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.839e+04 / 19
p0 50.44 ± 0.0811
90
80
70
60
50
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

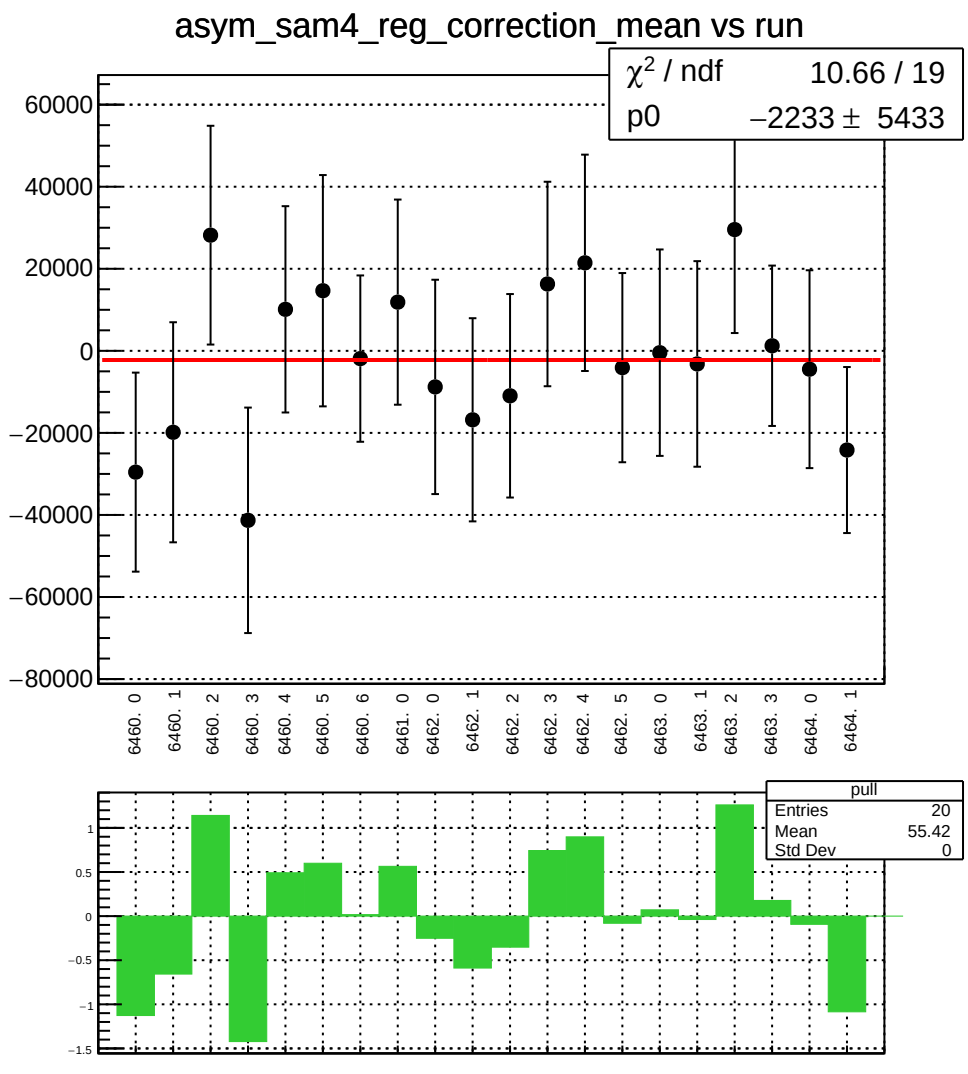

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.65 / 19
p0 2.387e−14 ± 5.863e−14
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 24.05
Std Dev 0
pull1D
Entries 20
Mean 0.06108
Std Dev 0.9893
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

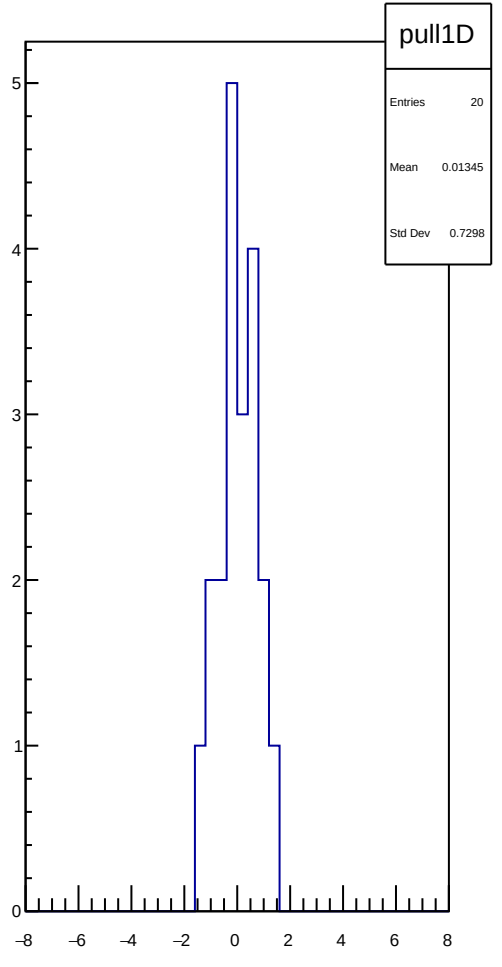

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.316e+05 / 19
p0 2.169e−11 ± 4.146e−14
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

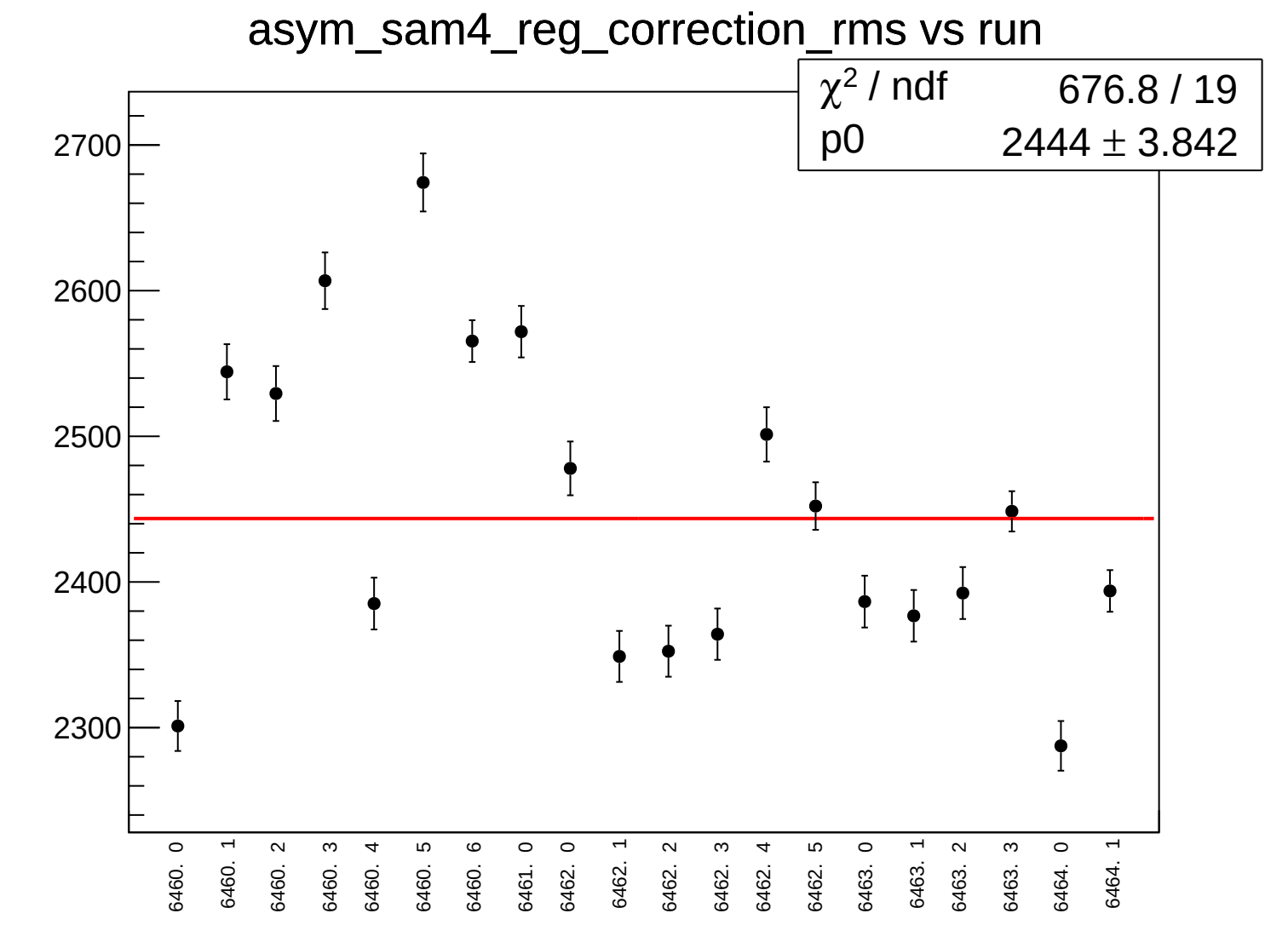

reg_asym_sam4_mean vs run
χ² / ndf 14.26 / 19
p0 −98.14 ± 487.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −149
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

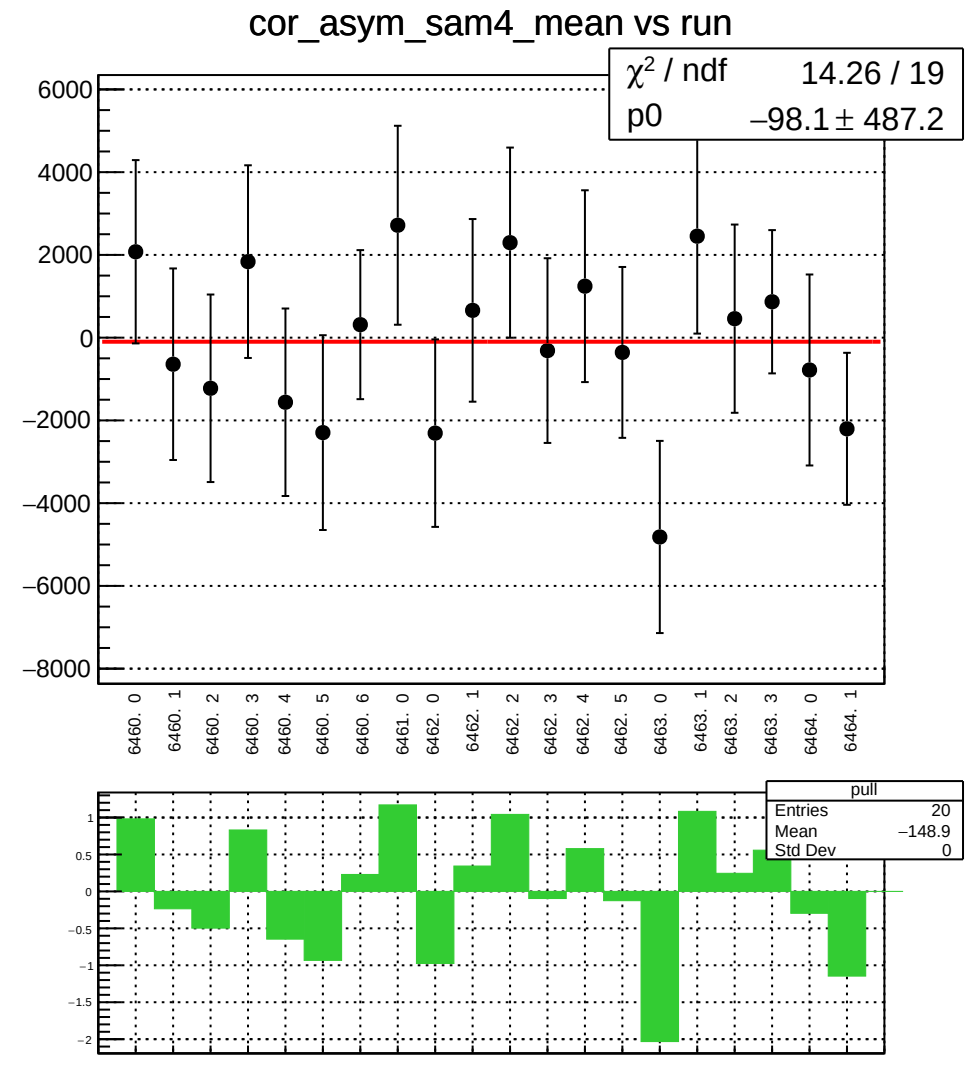

pull1D
Entries 20
Mean 0.004124
Std Dev 0.8443
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

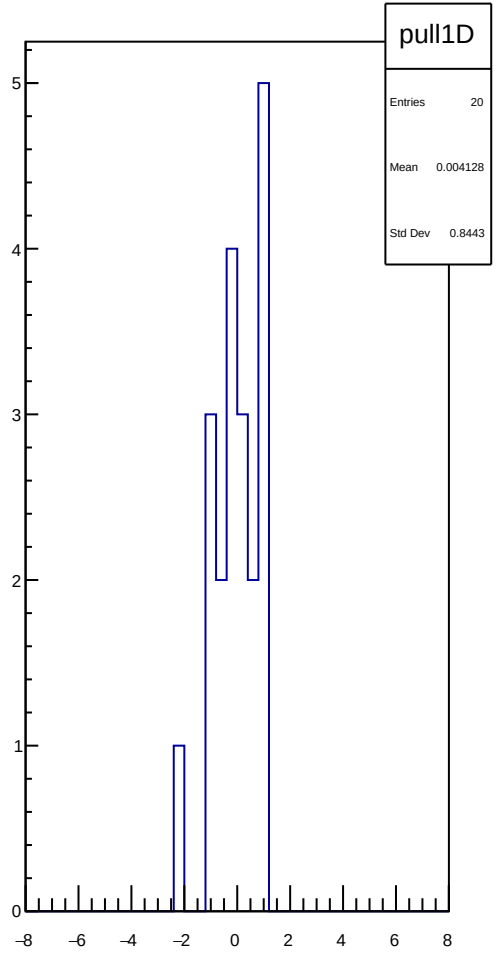

reg_asym_sam4_rms vs run
χ² / ndf 461.5 / 19
p0 219.2 ± 0.3445
250
245
240
235
230
225
220
215
210
205
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

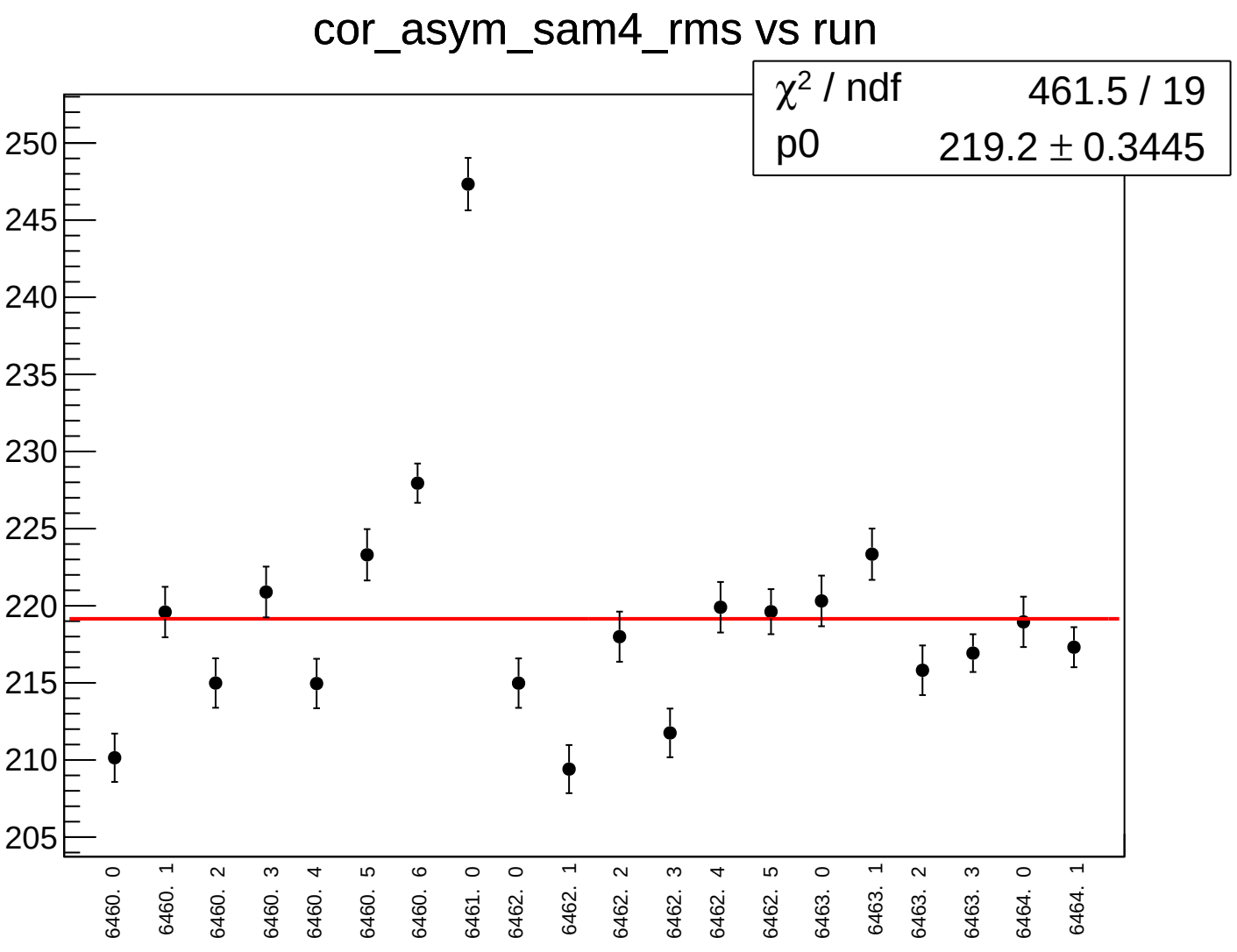

asym_sam4_reg_correction_mean vs run
χ² / ndf 10.66 / 19
p0 −2233 ± 5433
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 55.42
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

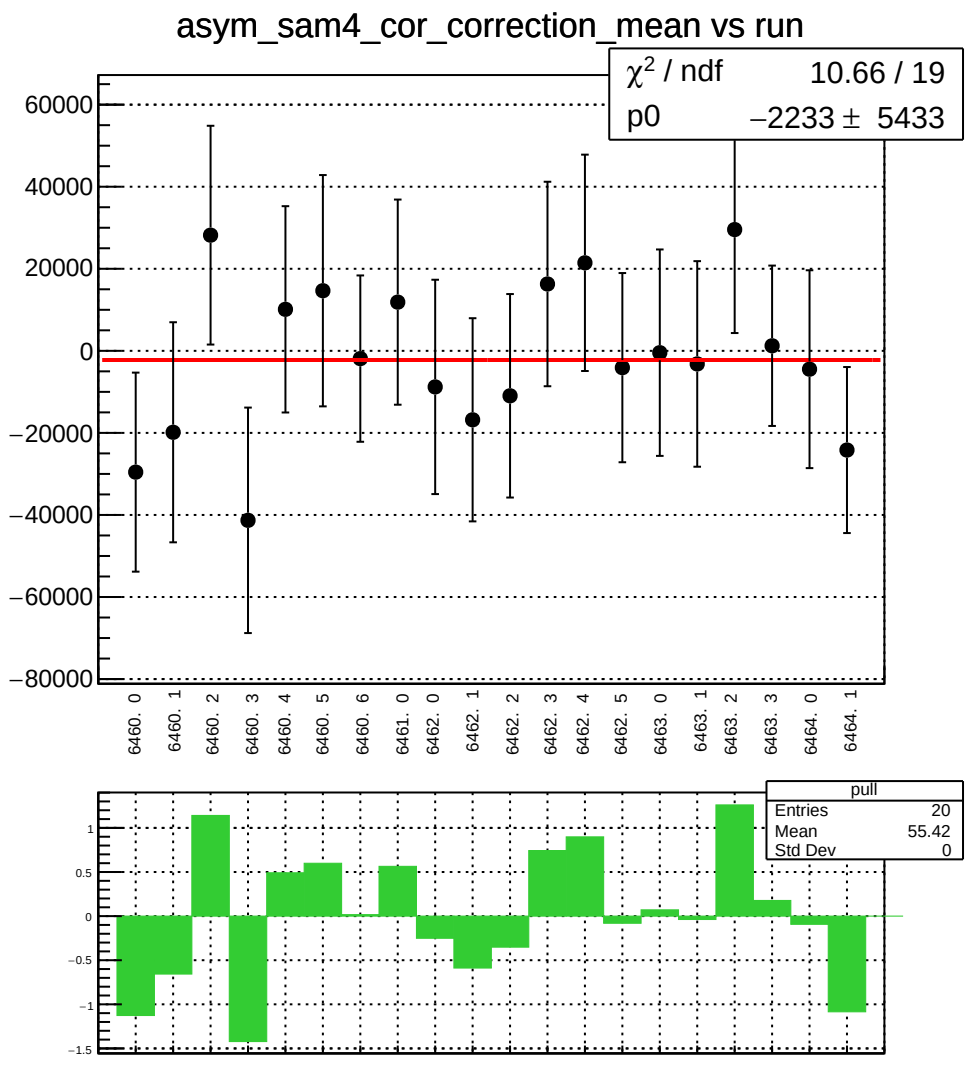

pull1D
Entries 20
Mean 0.01345
Std Dev 0.7298
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

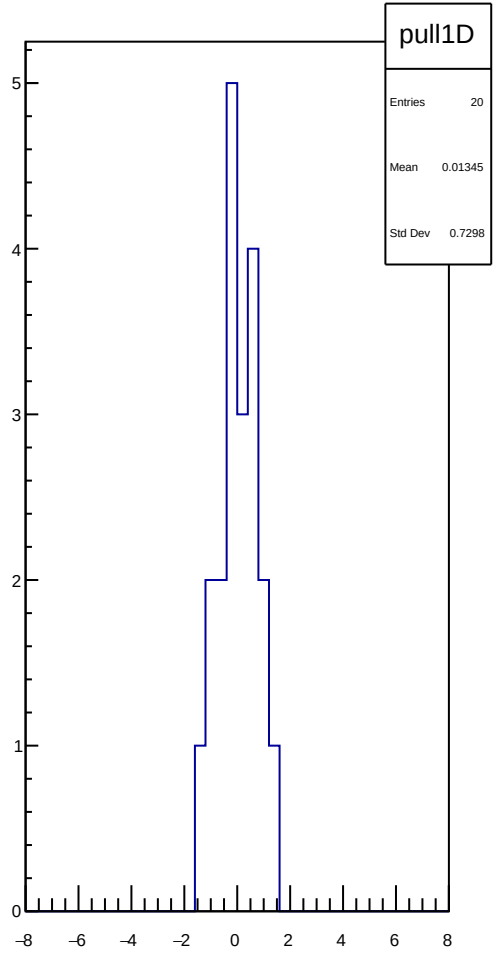

asym_sam4_reg_correction_rms vs run
χ² / ndf 676.8 / 19
p0 2444 ± 3.842
2700
2600
2500
2400
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

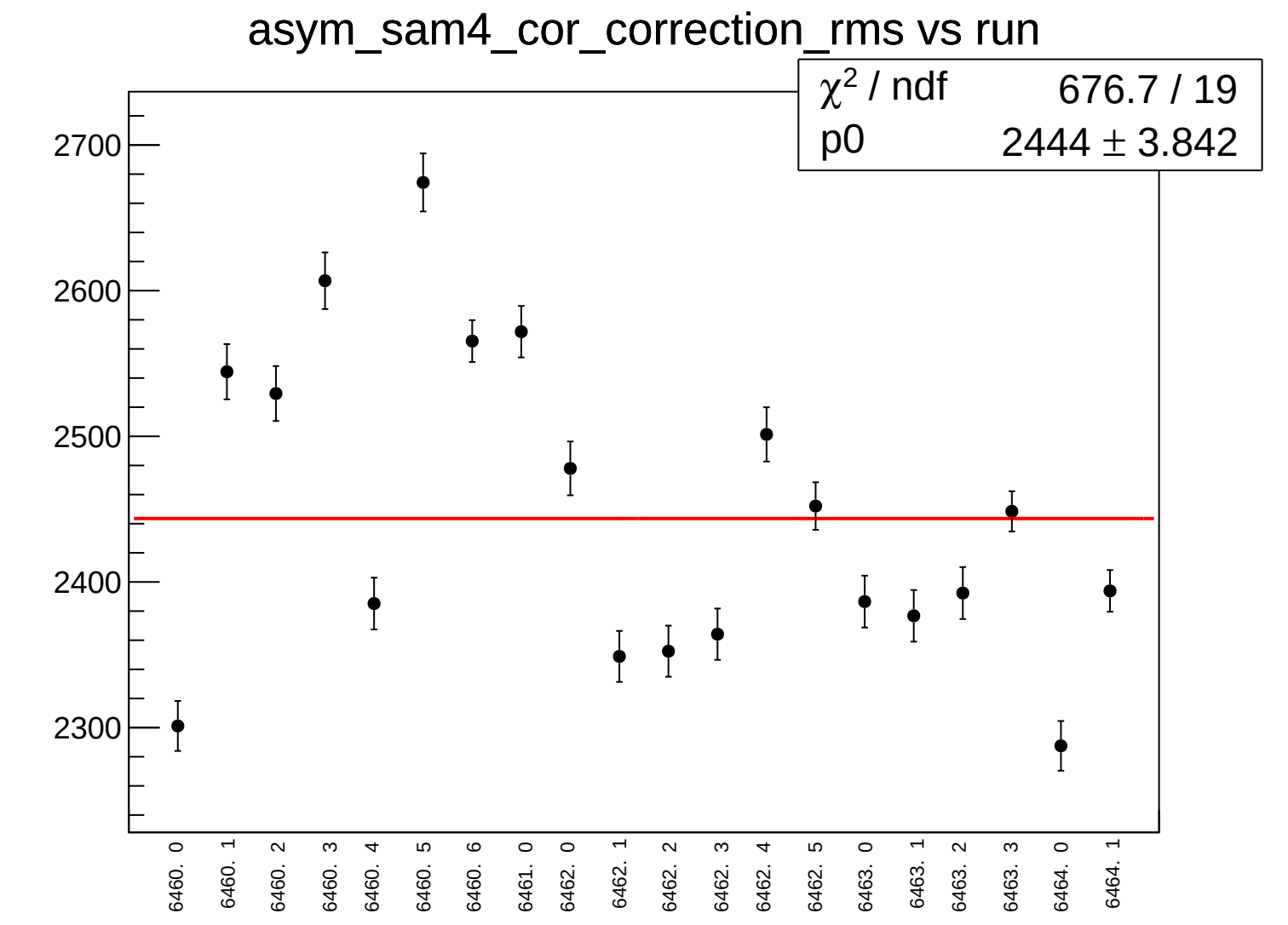

cor_asym_sam4_mean vs run
χ² / ndf 14.26 / 19
p0 −98.1 ± 487.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −148.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

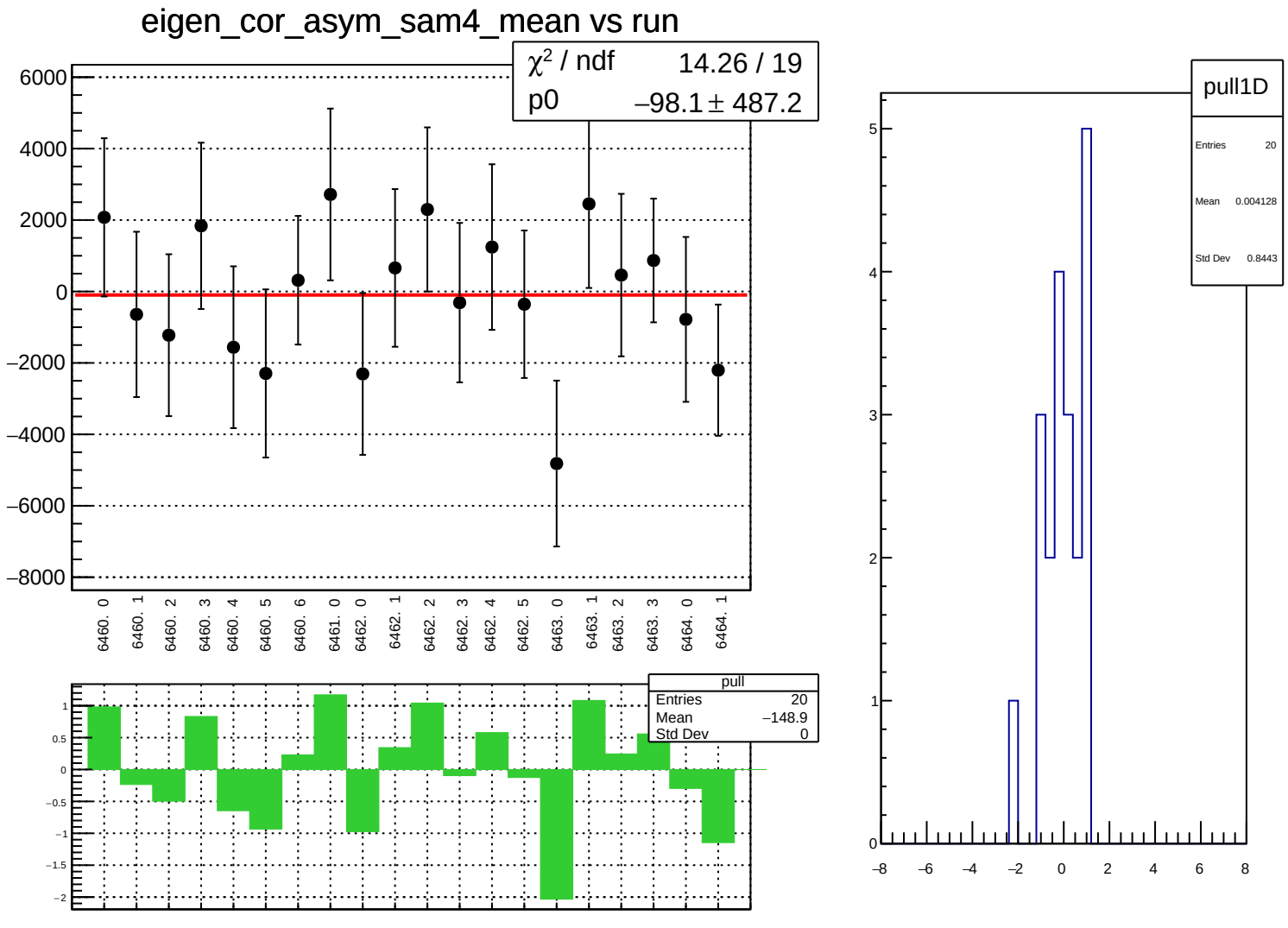

pull1D
Entries 20
Mean 0.004128
Std Dev 0.8443
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

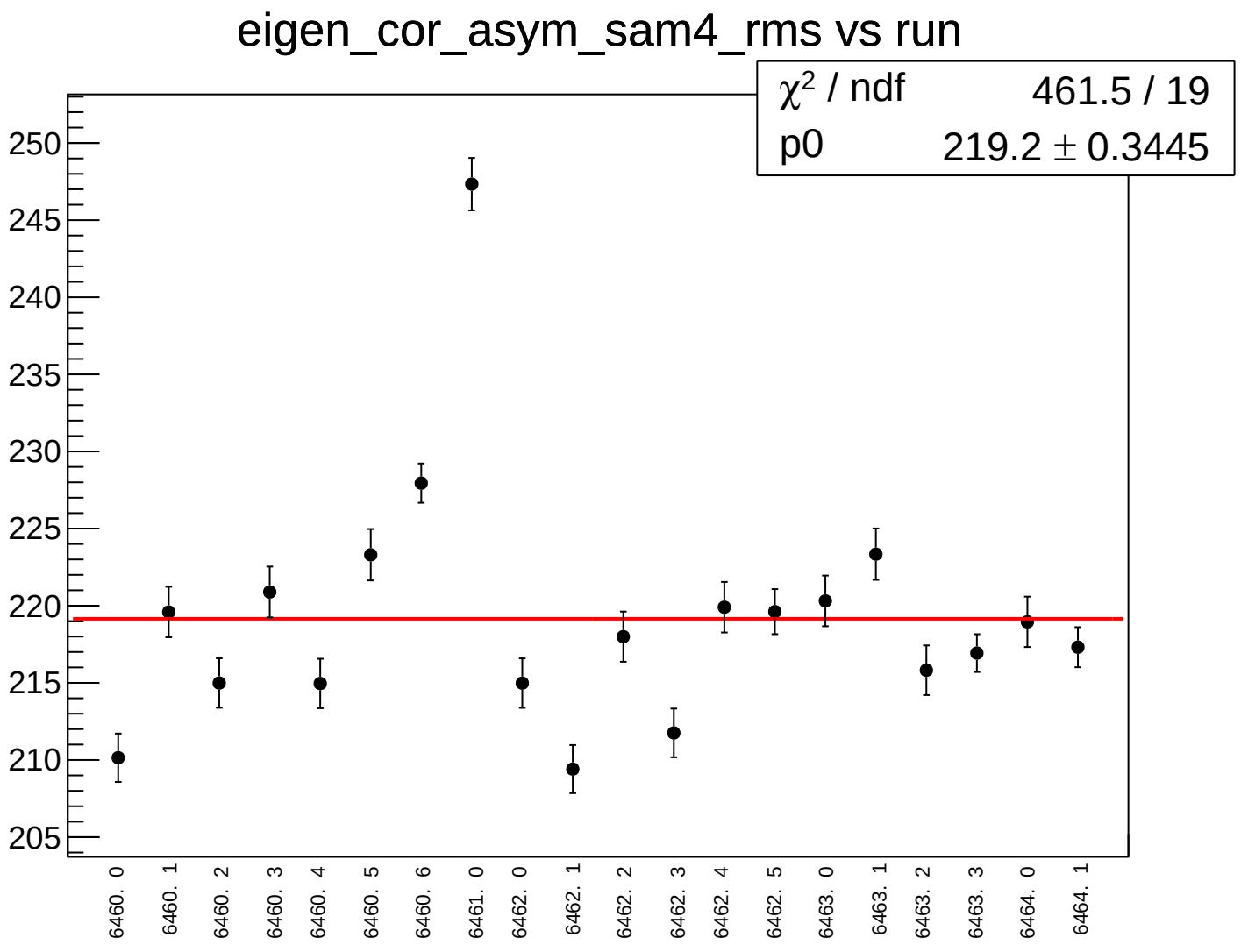

cor_asym_sam4_rms vs run
χ² / ndf 461.5 / 19
p0 219.2 ± 0.3445
250
245
240
235
230
225
220
215
210
205
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

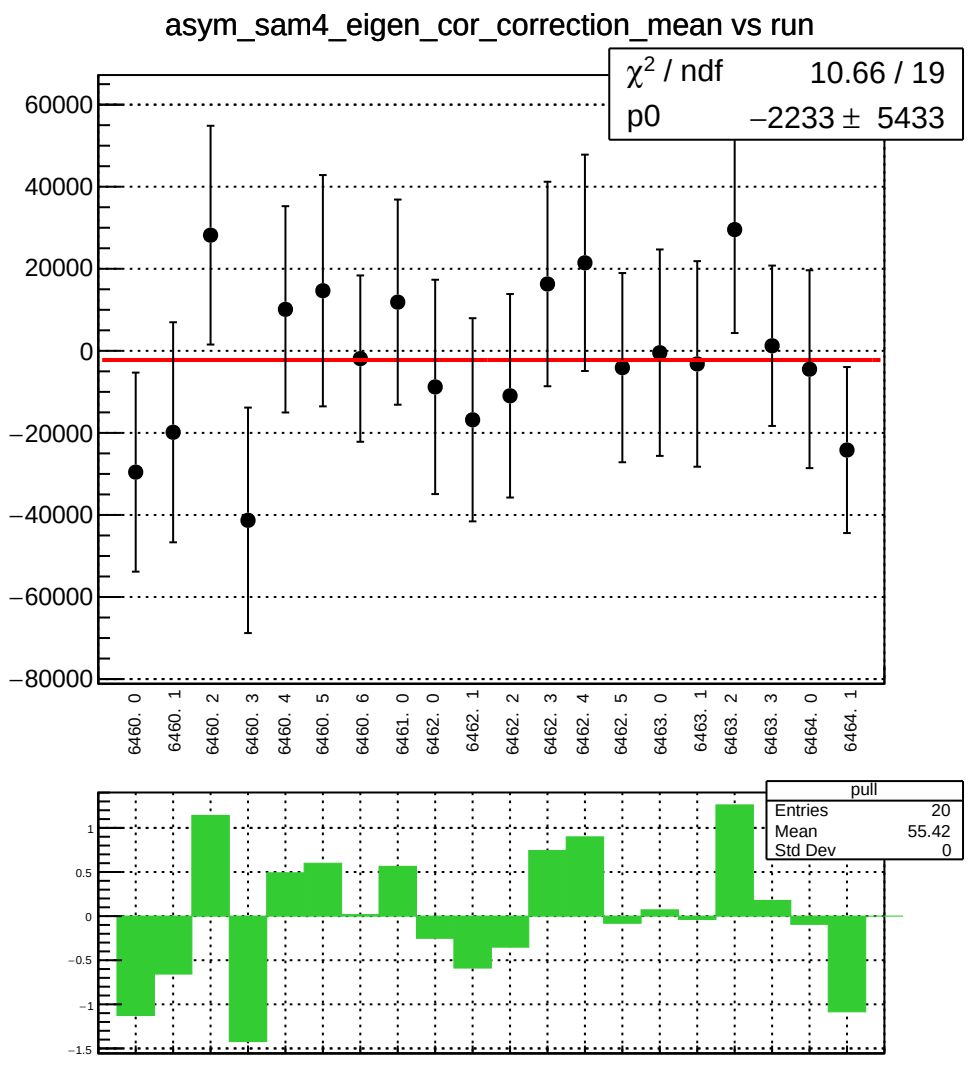

asym_sam4_cor_correction_mean vs run
χ² / ndf 10.66 / 19
p0 −2233 ± 5433
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 55.42
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

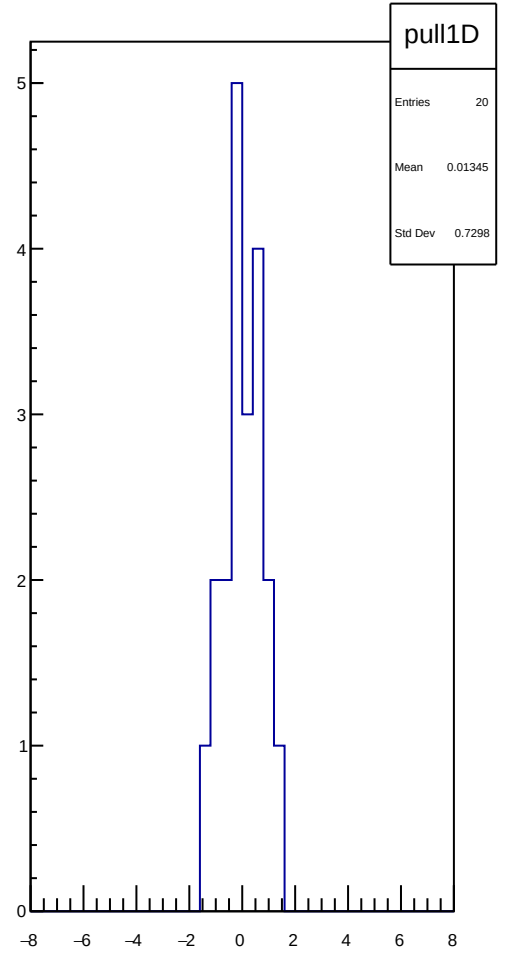

pull1D
Entries 20
Mean 0.01345
Std Dev 0.7298
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

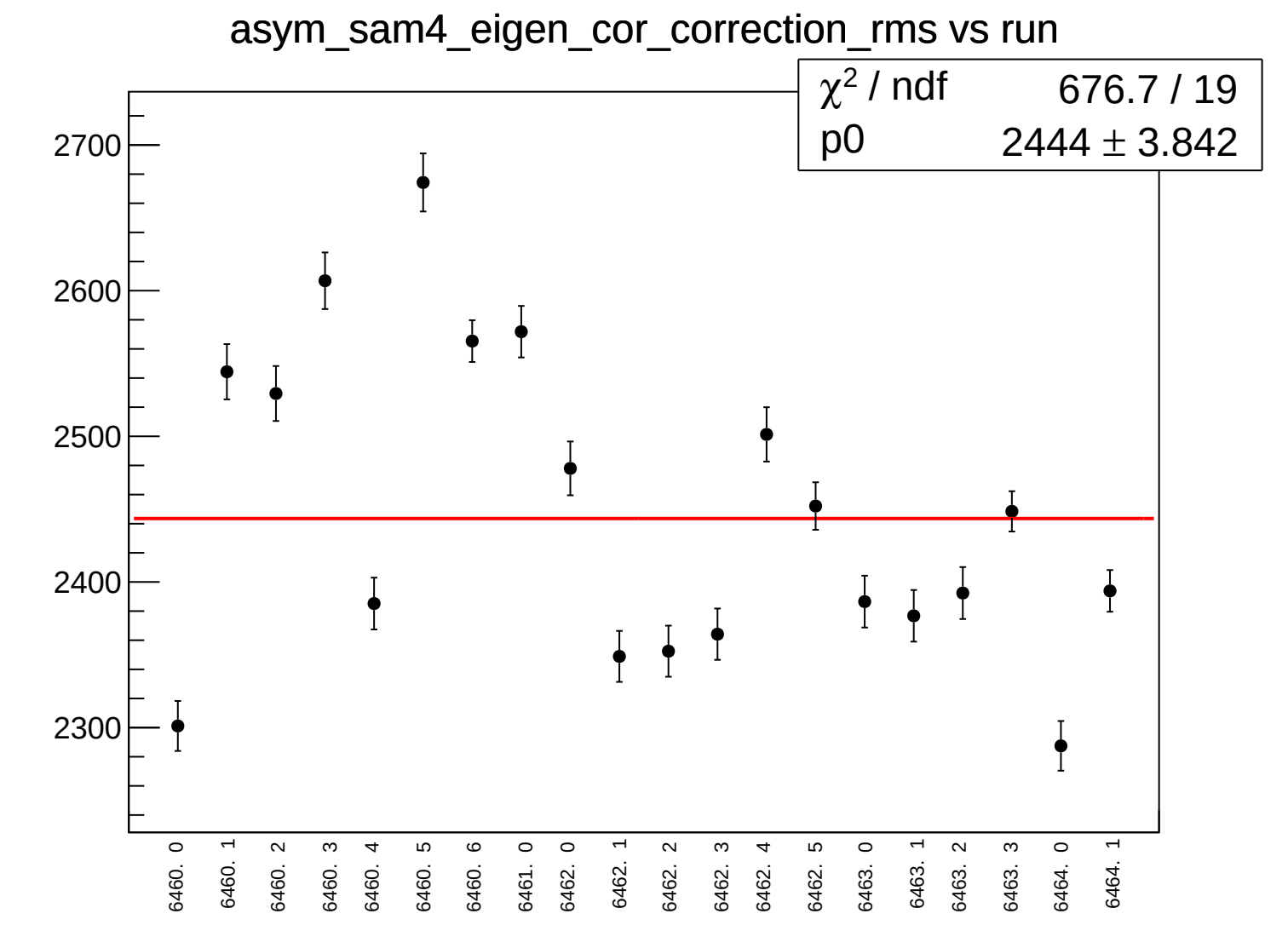

asym_sam4_cor_correction_rms vs run
χ² / ndf 676.7 / 19
p0 2444 ± 3.842
2700
2600
2500
2400
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

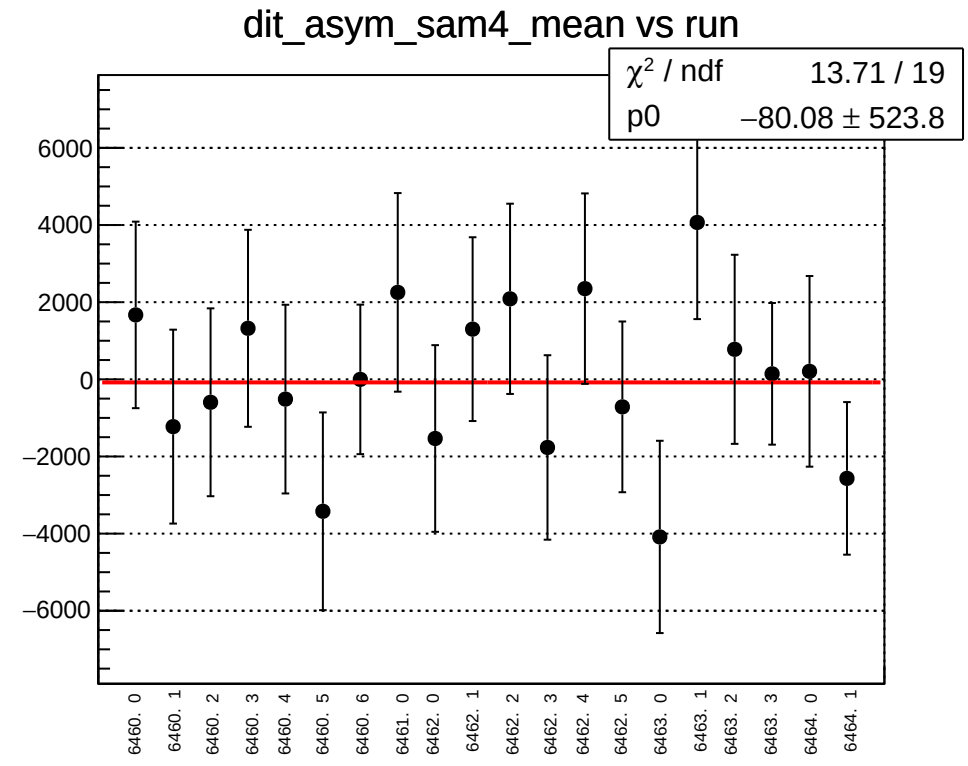

eigen_cor_asym_sam4_mean vs run
χ² / ndf 14.26 / 19
p0 −98.1 ± 487.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −148.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.004128
Std Dev 0.8443
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

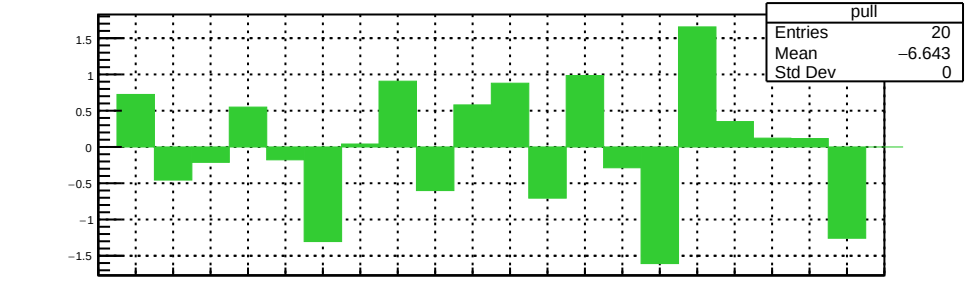

eigen_cor_asym_sam4_rms vs run
χ² / ndf 461.5 / 19
p0 219.2 ± 0.3445
250
245
240
235
230
225
220
215
210
205
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

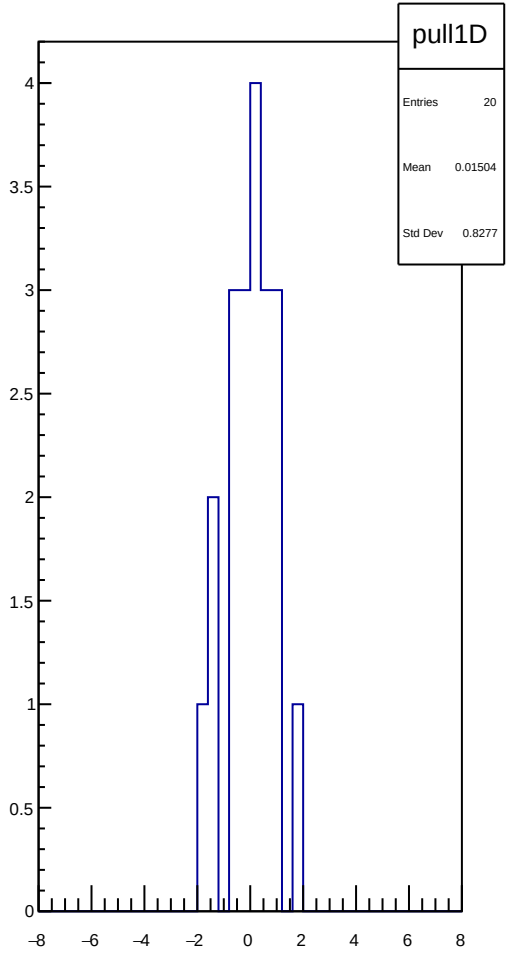

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 10.66 / 19
p0 −2233 ± 5433
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 55.42
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

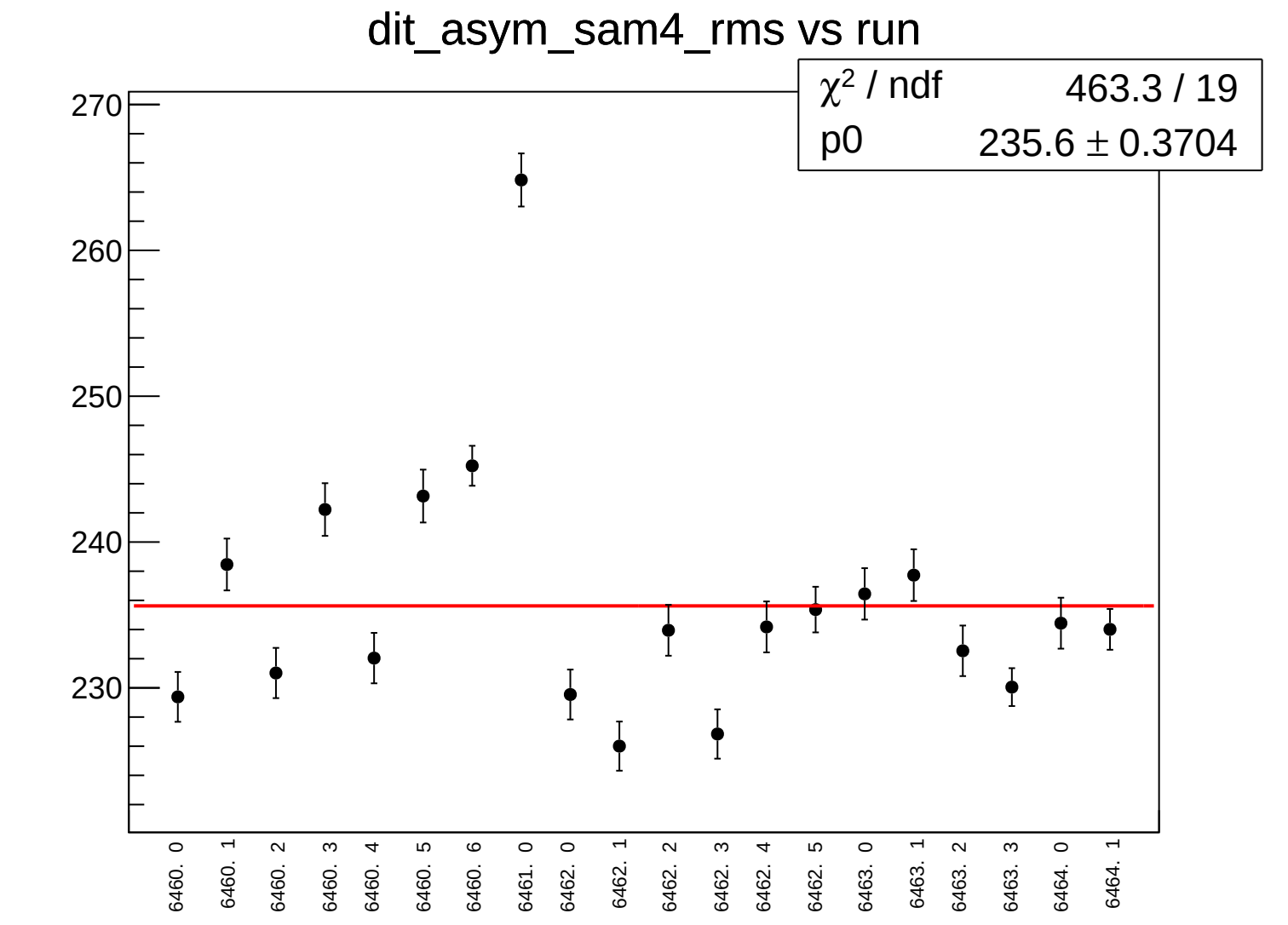

pull1D
Entries 20
Mean 0.01345
Std Dev 0.7298
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

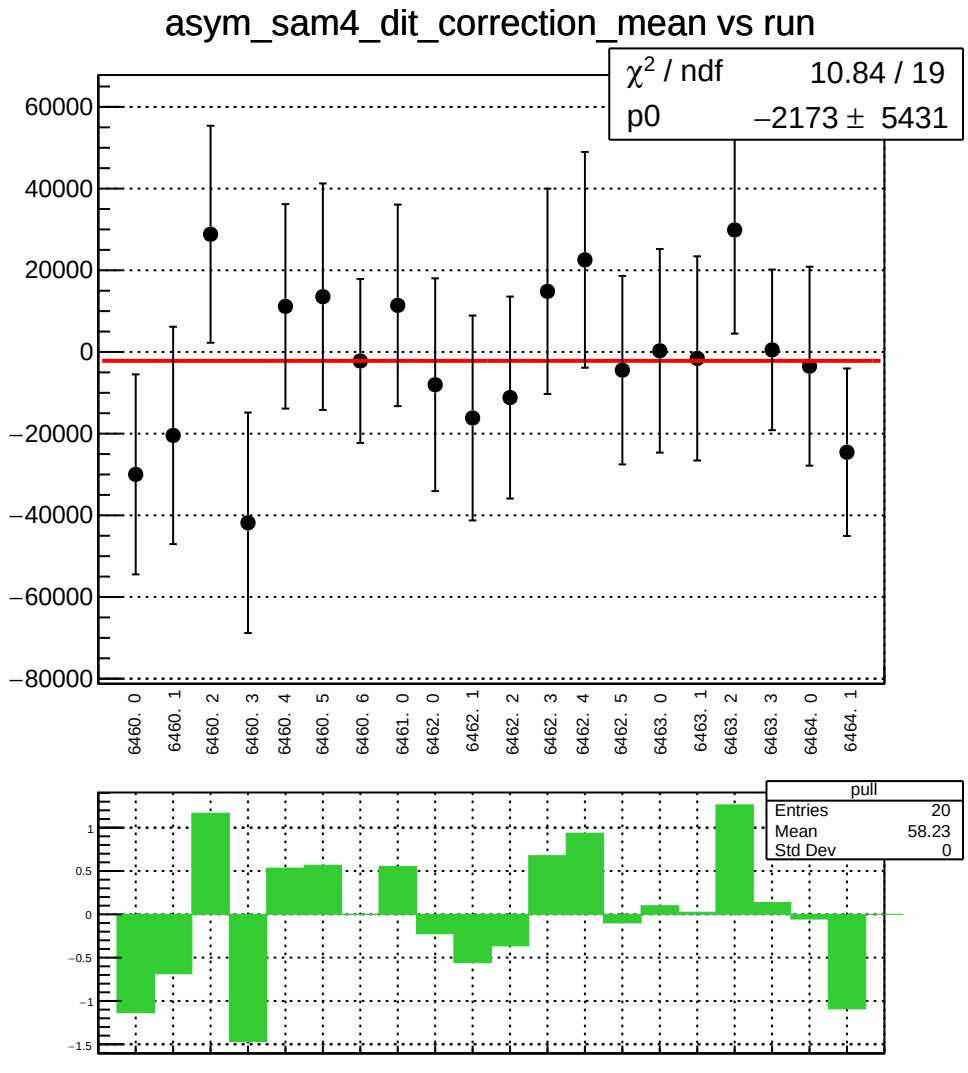

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 676.7 / 19
p0 2444 ± 3.842
2700
2600
2500
2400
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

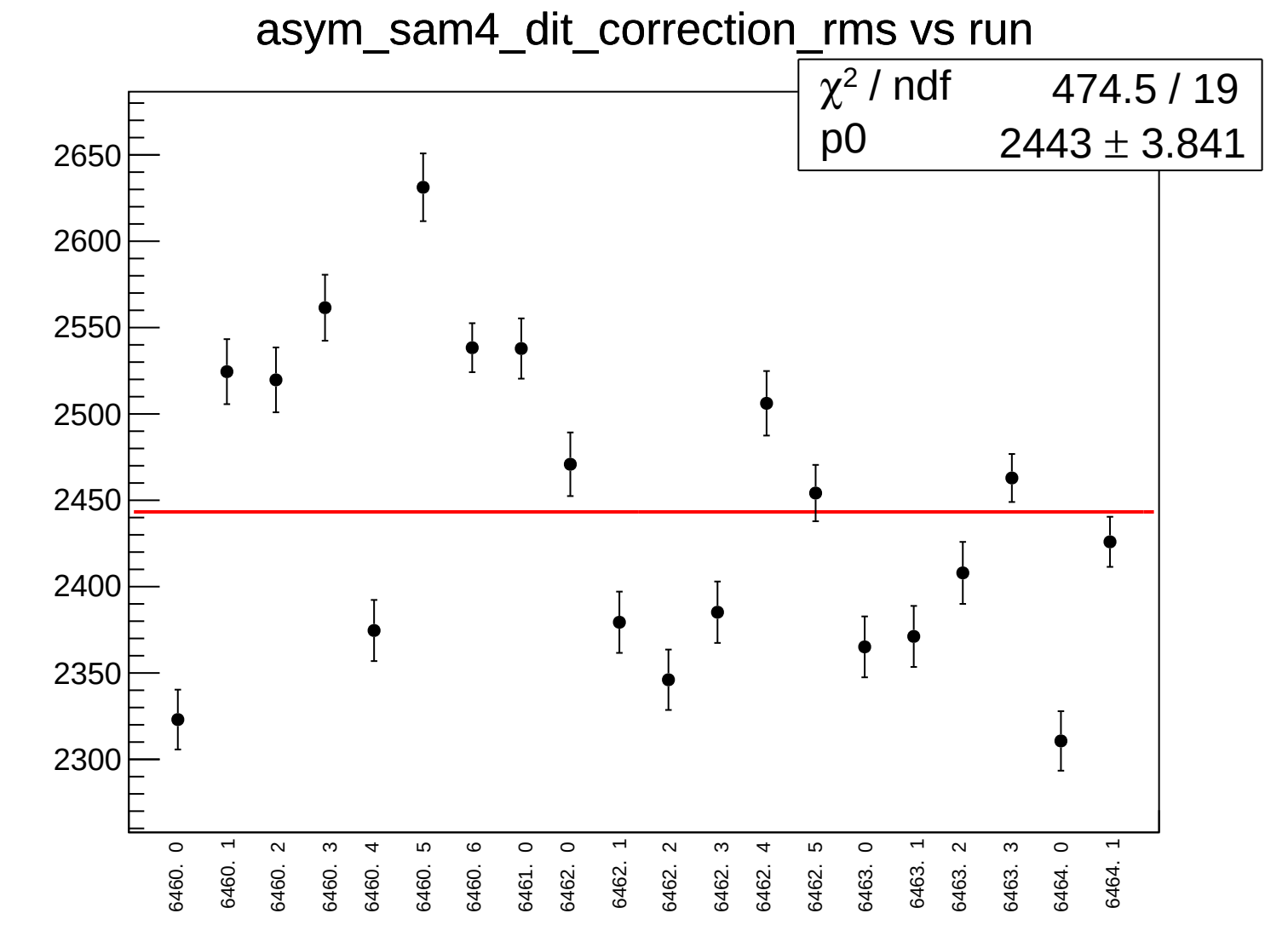

dit_asym_sam4_mean vs run
χ² / ndf 13.71 / 19
p0 −80.08 ± 523.8
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

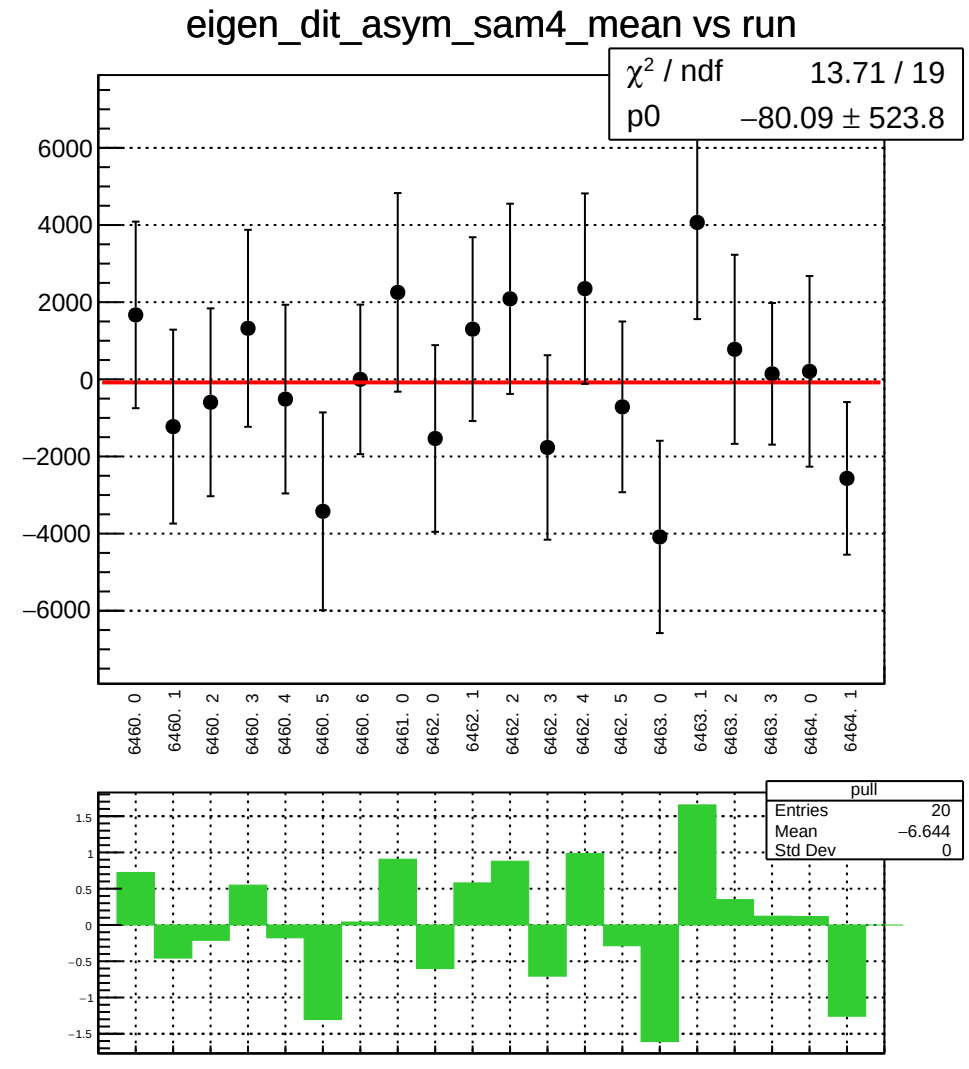

pull
Entries 20
Mean −6.643
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

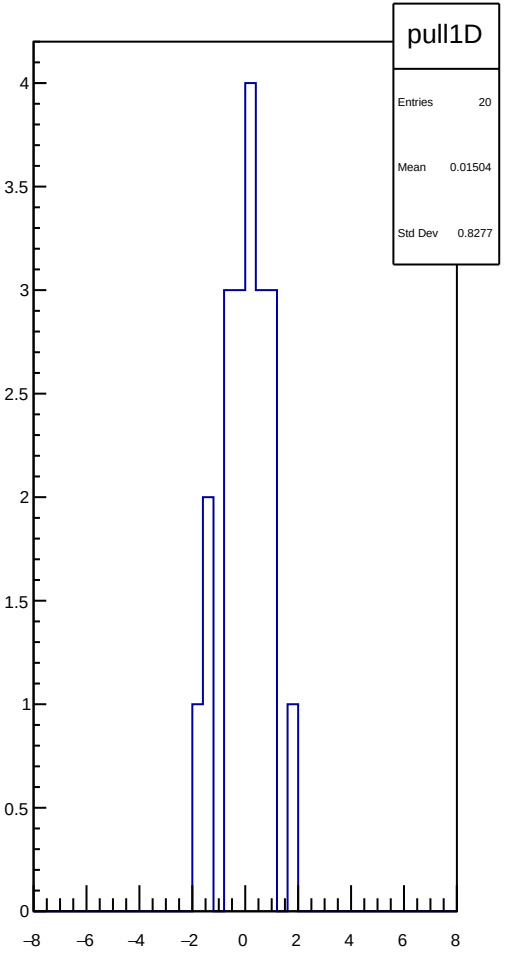

pull1D
Entries 20
Mean 0.01504
Std Dev 0.8277
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

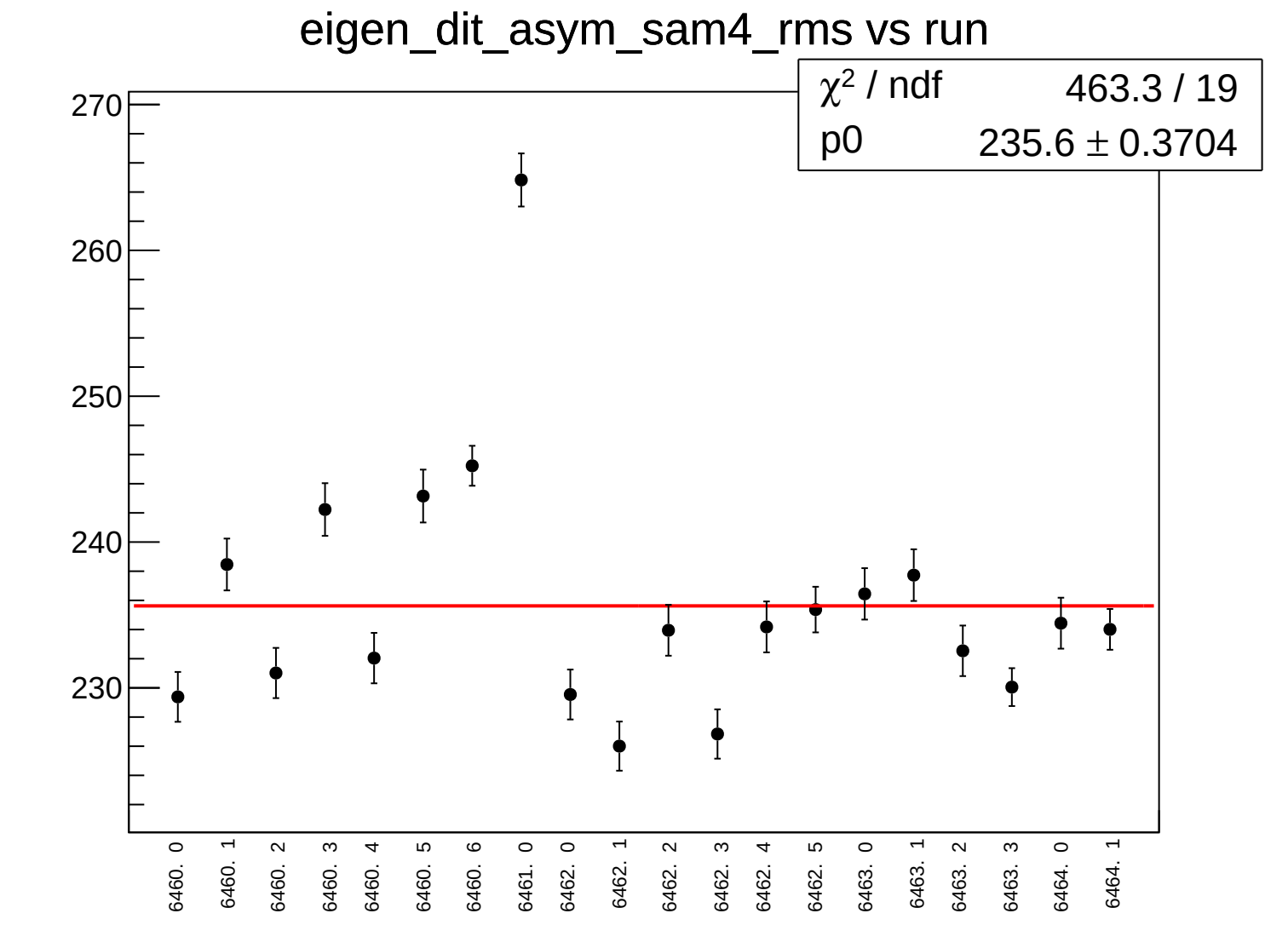

dit_asym_sam4_rms vs run
χ^2 / ndf 463.3 / 19
p0 235.6 ± 0.3704
270
260
250
240
230
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

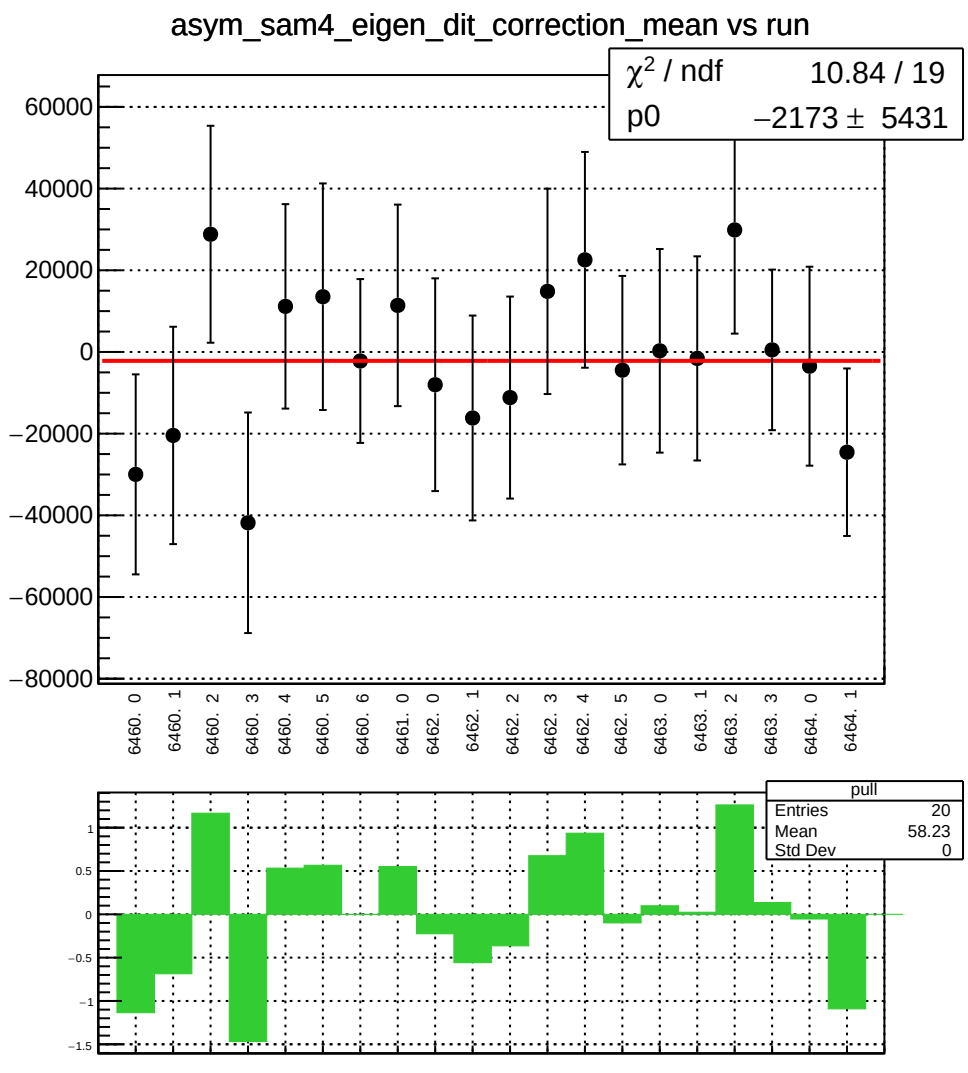

asym_sam4_dit_correction_mean vs run
χ² / ndf 10.84 / 19
p0 −2173 ± 5431
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.23
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01347
Std Dev 0.7361
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

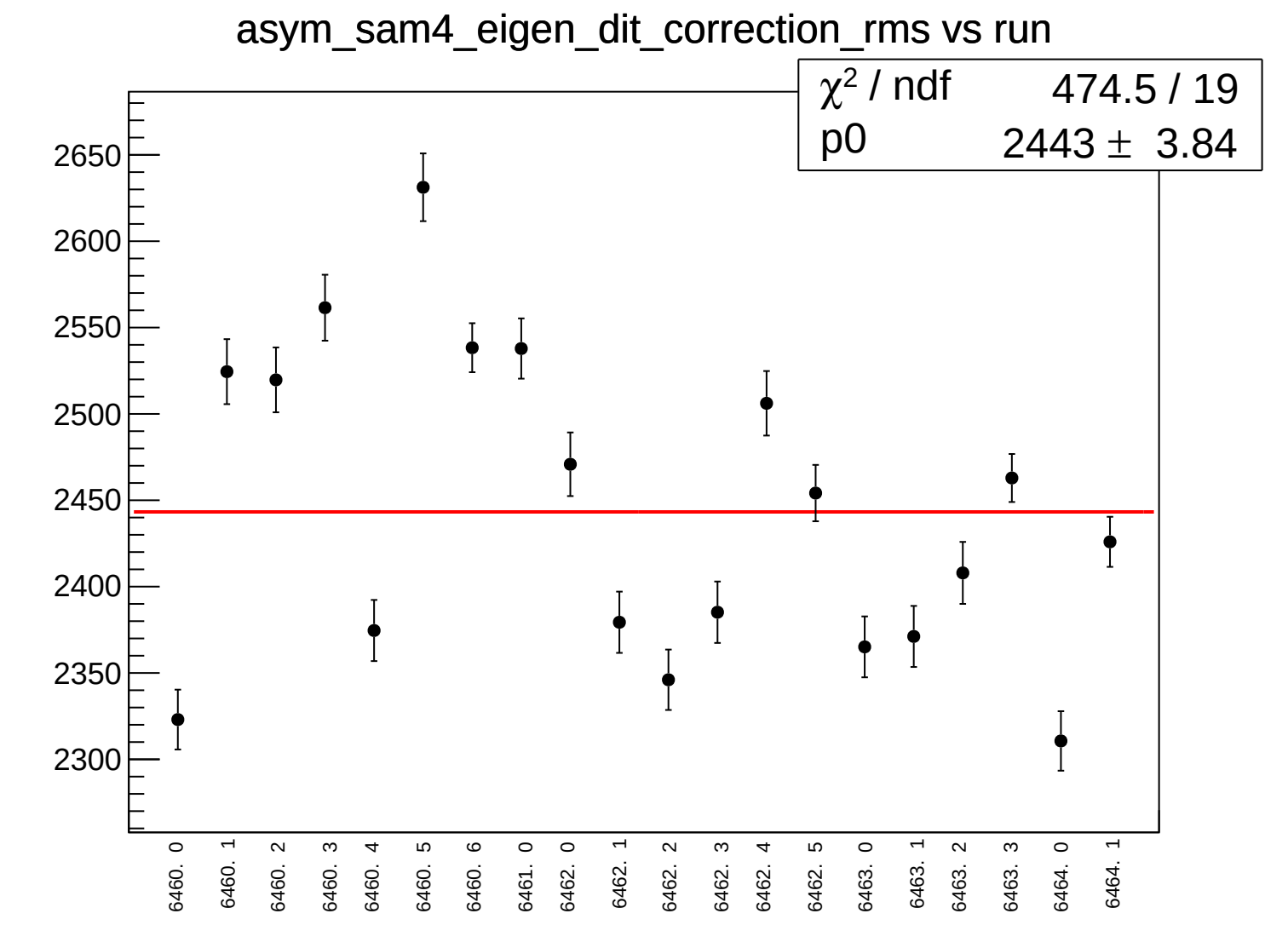

asym_sam4_dit_correction_rms vs run
χ² / ndf 474.5 / 19
p0 2443 ± 3.841
2650
2600
2550
2500
2450
2400
2350
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

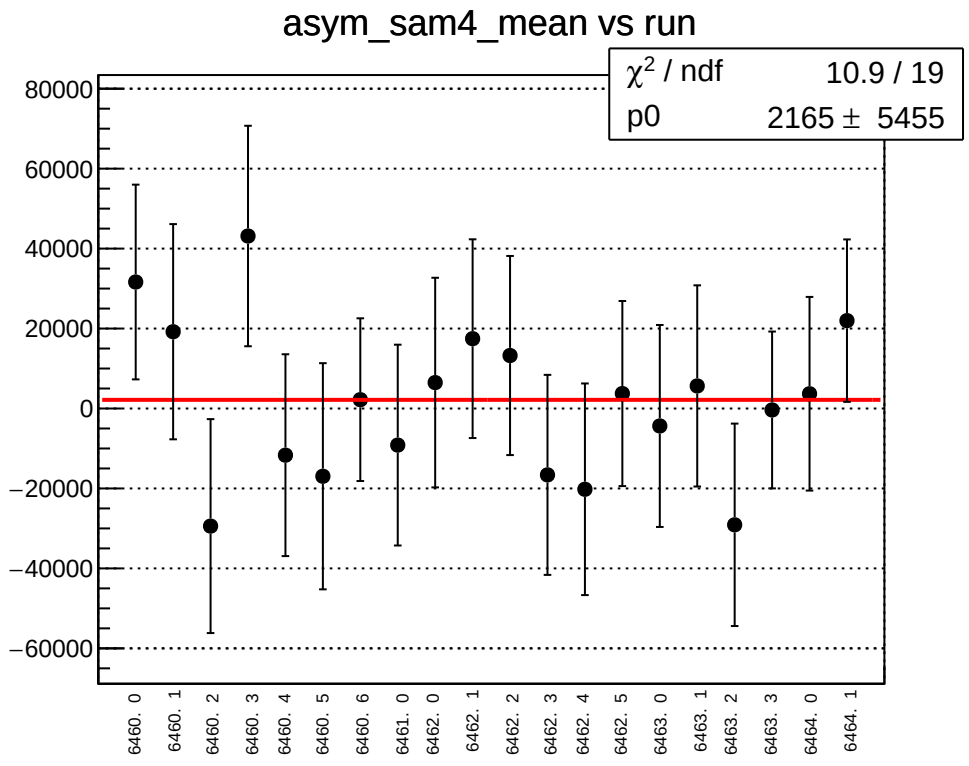

eigen_dit_asym_sam4_mean vs run
χ² / ndf 13.71 / 19
p0 −80.09 ± 523.8
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.644
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

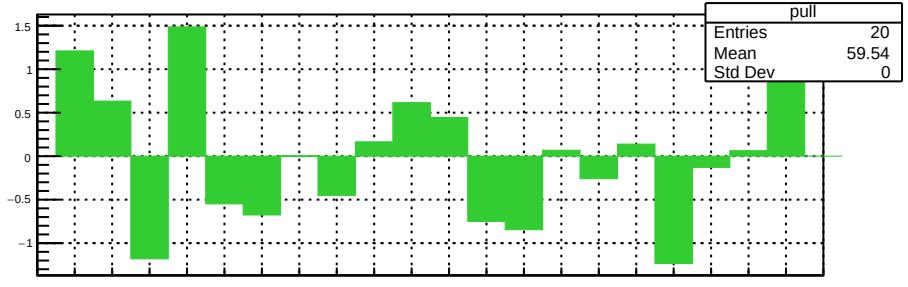

pull1D
Entries 20
Mean 0.01504
Std Dev 0.8277
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

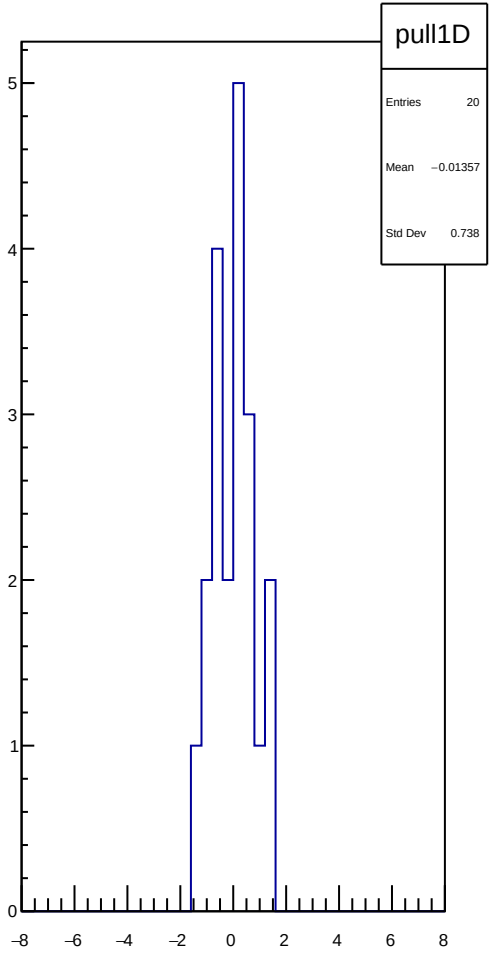

eigen_dit_asym_sam4_rms vs run
χ² / ndf 463.3 / 19
p0 235.6 ± 0.3704
270
260
250
240
230
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

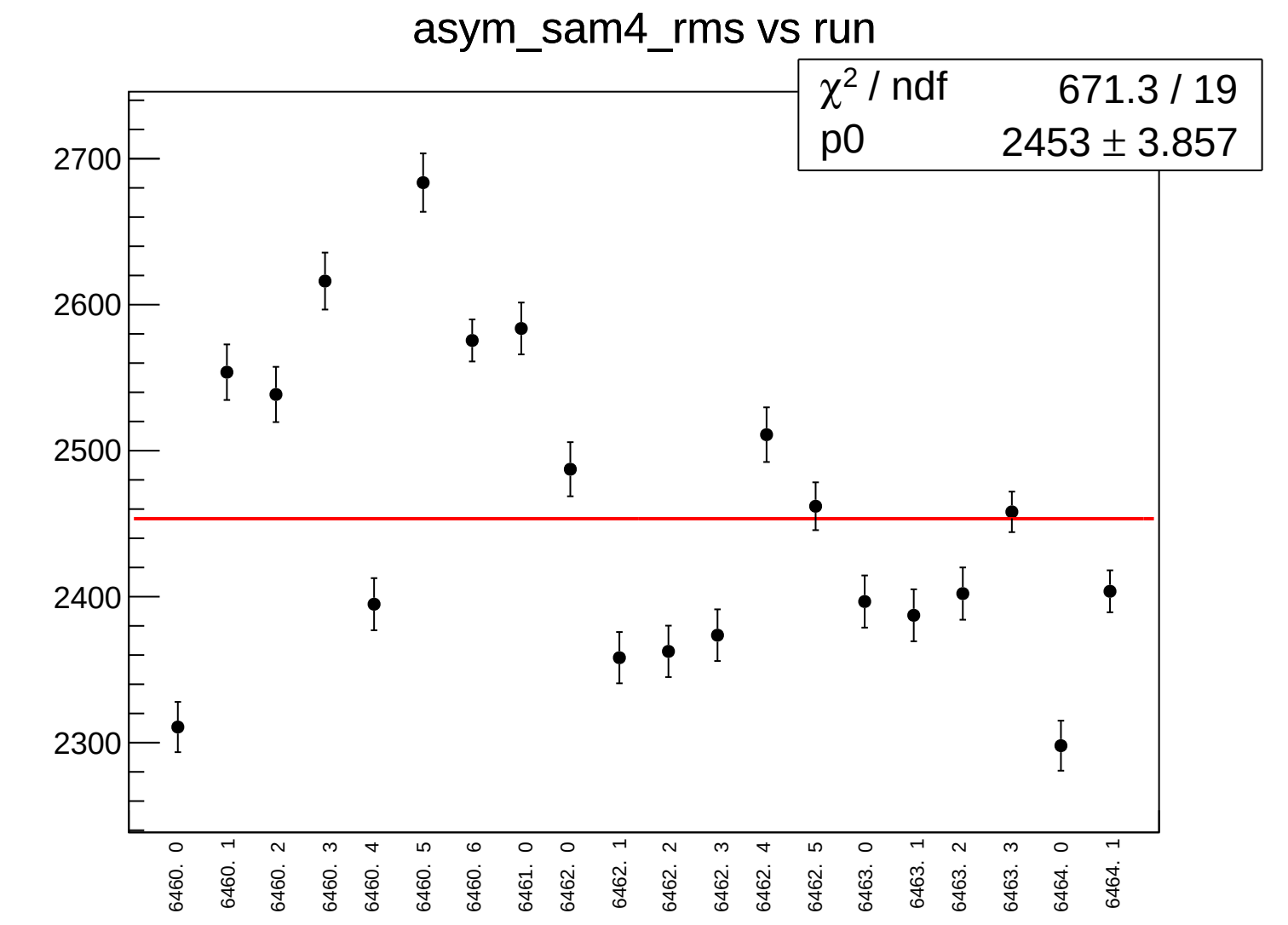

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 10.84 / 19
p0 −2173 ± 5431
60000
40000
20000
0
−20000
−40000
−60000
−80000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.23
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01347
Std Dev 0.7361
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

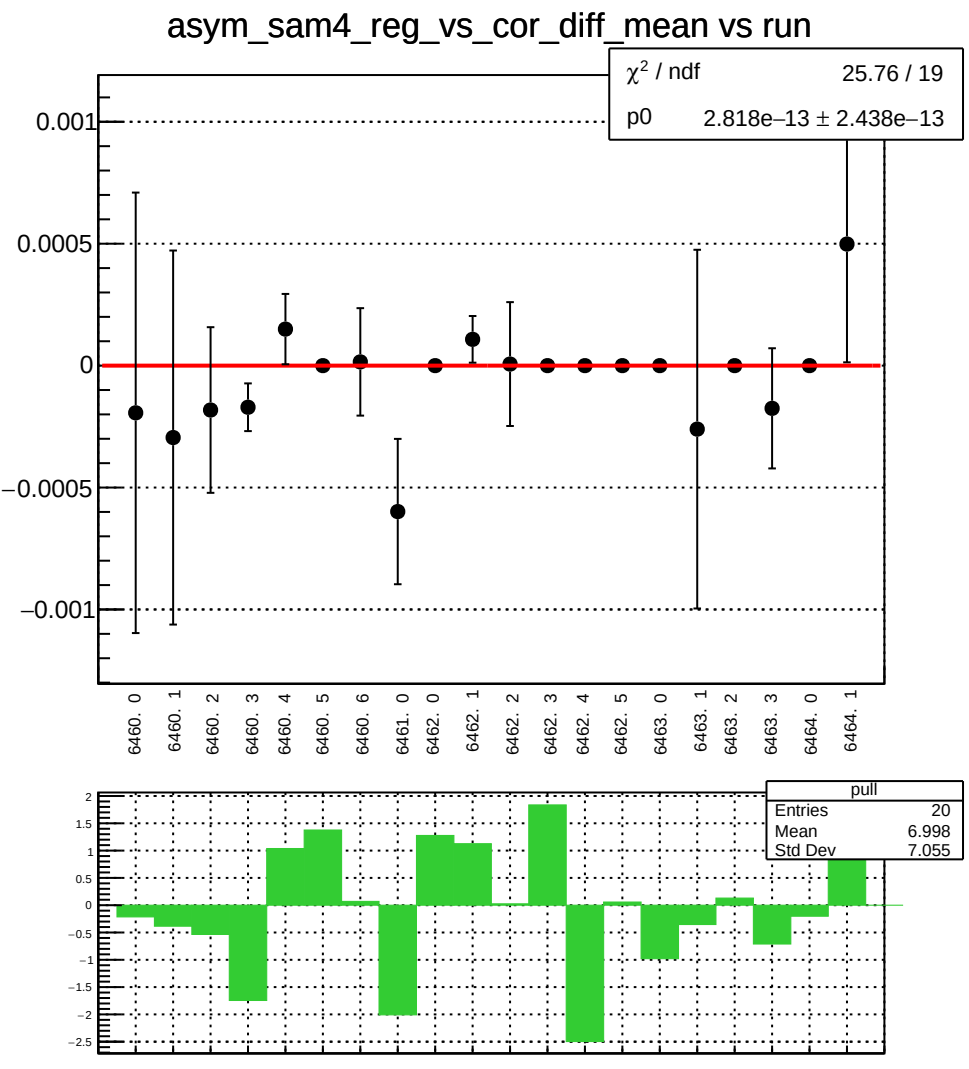

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 474.5 / 19
p0 2443 ± 3.84
2650
2600
2550
2500
2450
2400
2350
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

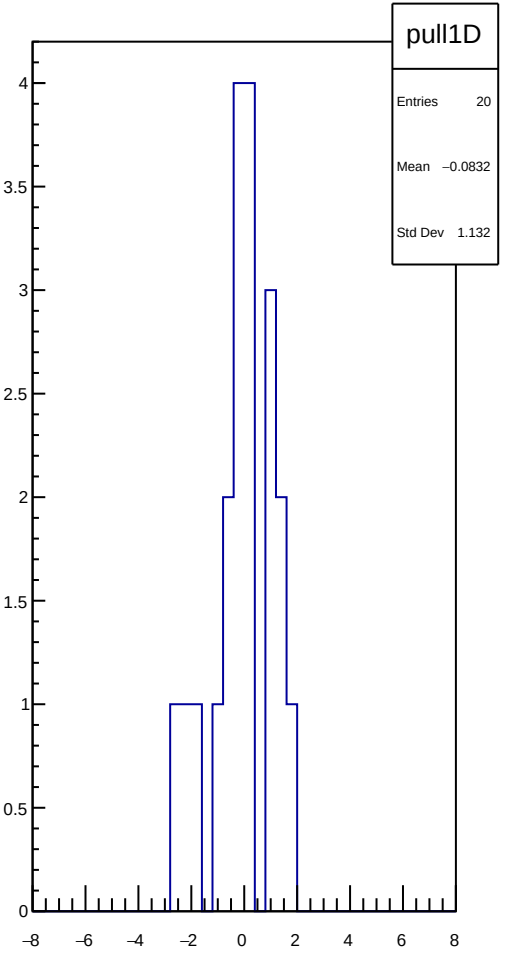

asym_sam4_mean vs run
χ² / ndf 10.9 / 19
p0 2165 ± 5455
80000
60000
40000
20000
0
−20000
−40000
−60000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

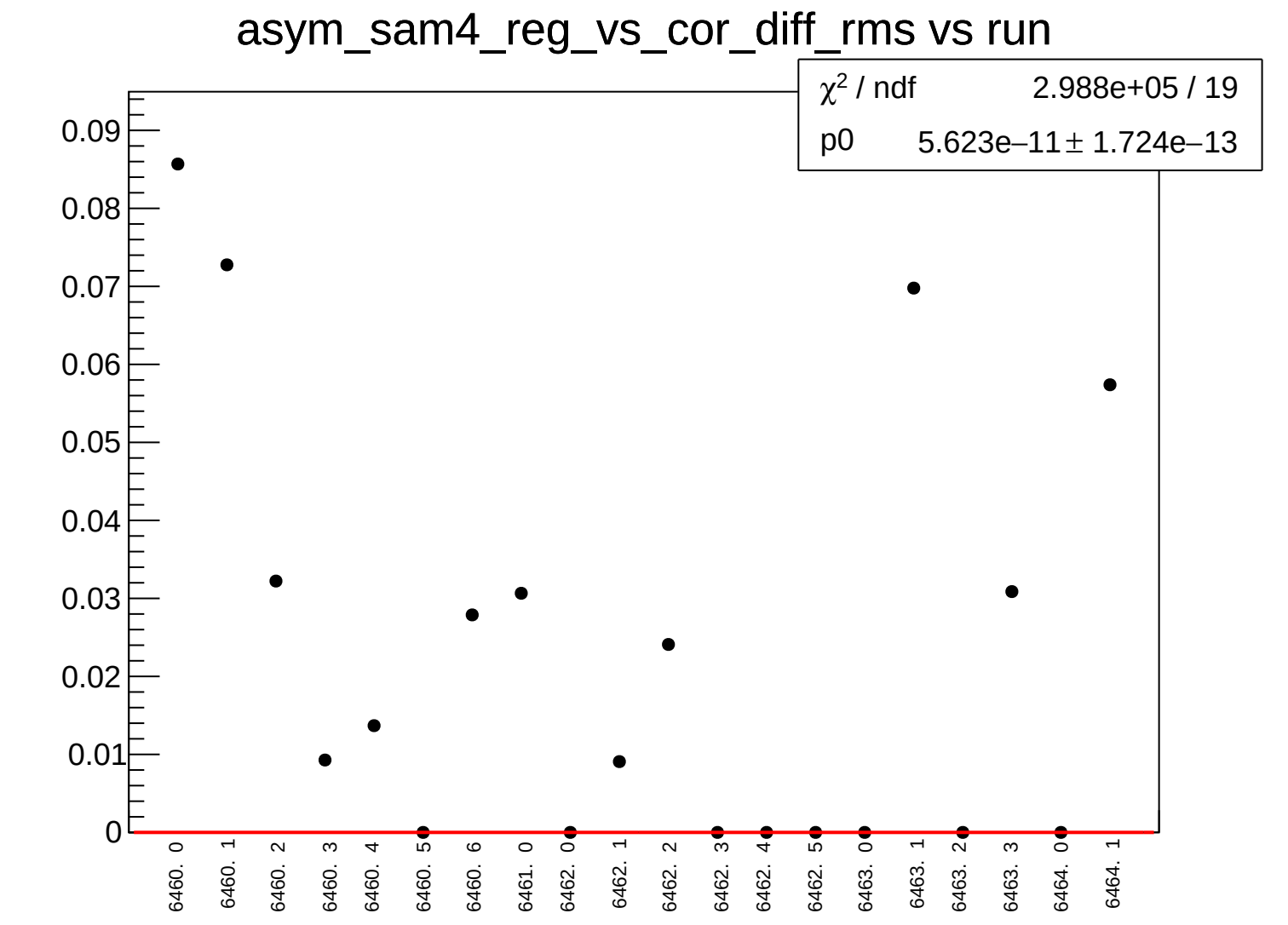

pull
Entries 20
Mean 59.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1

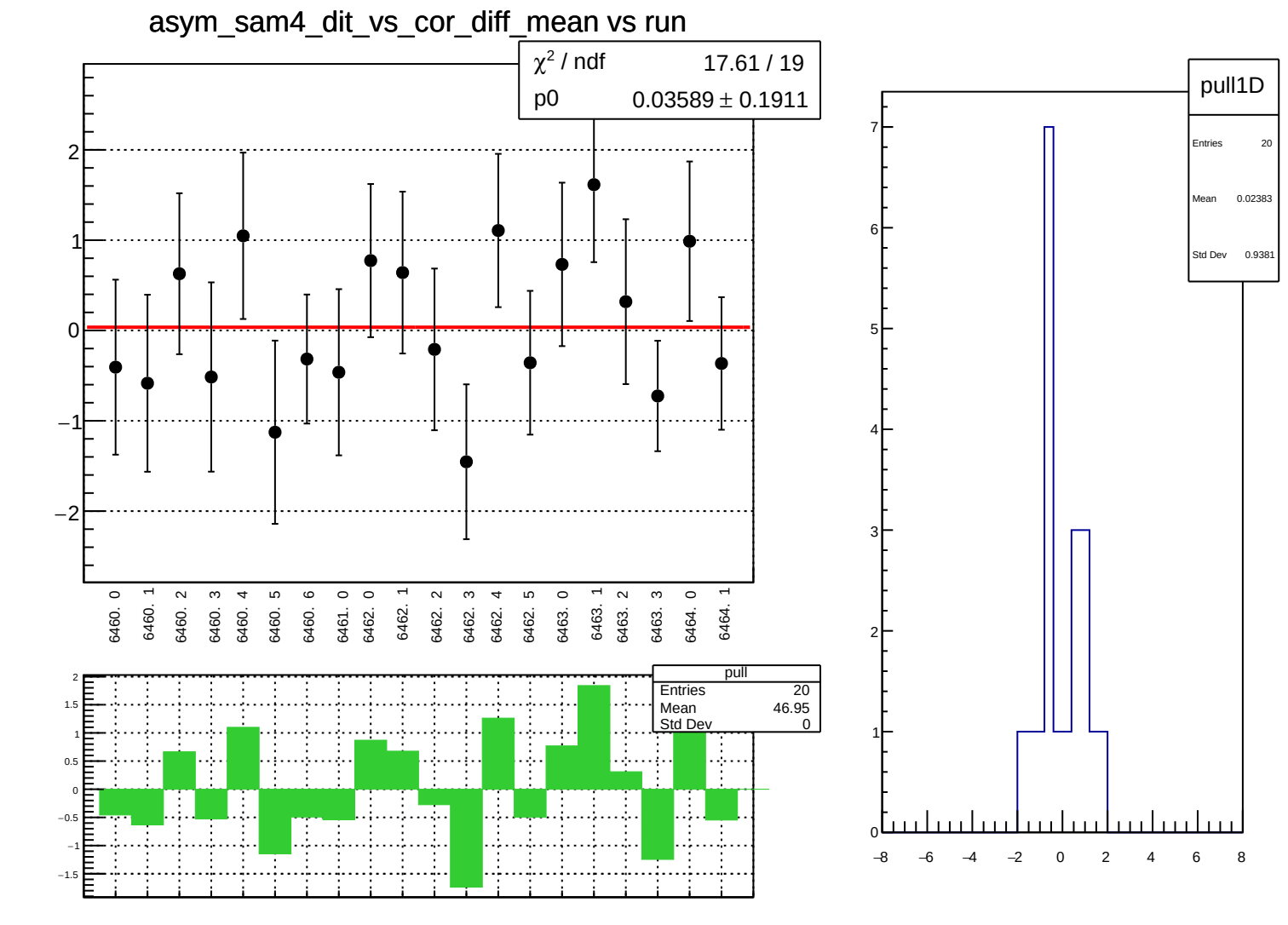

pull1D
Entries 20
Mean −0.01357
Std Dev 0.738
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

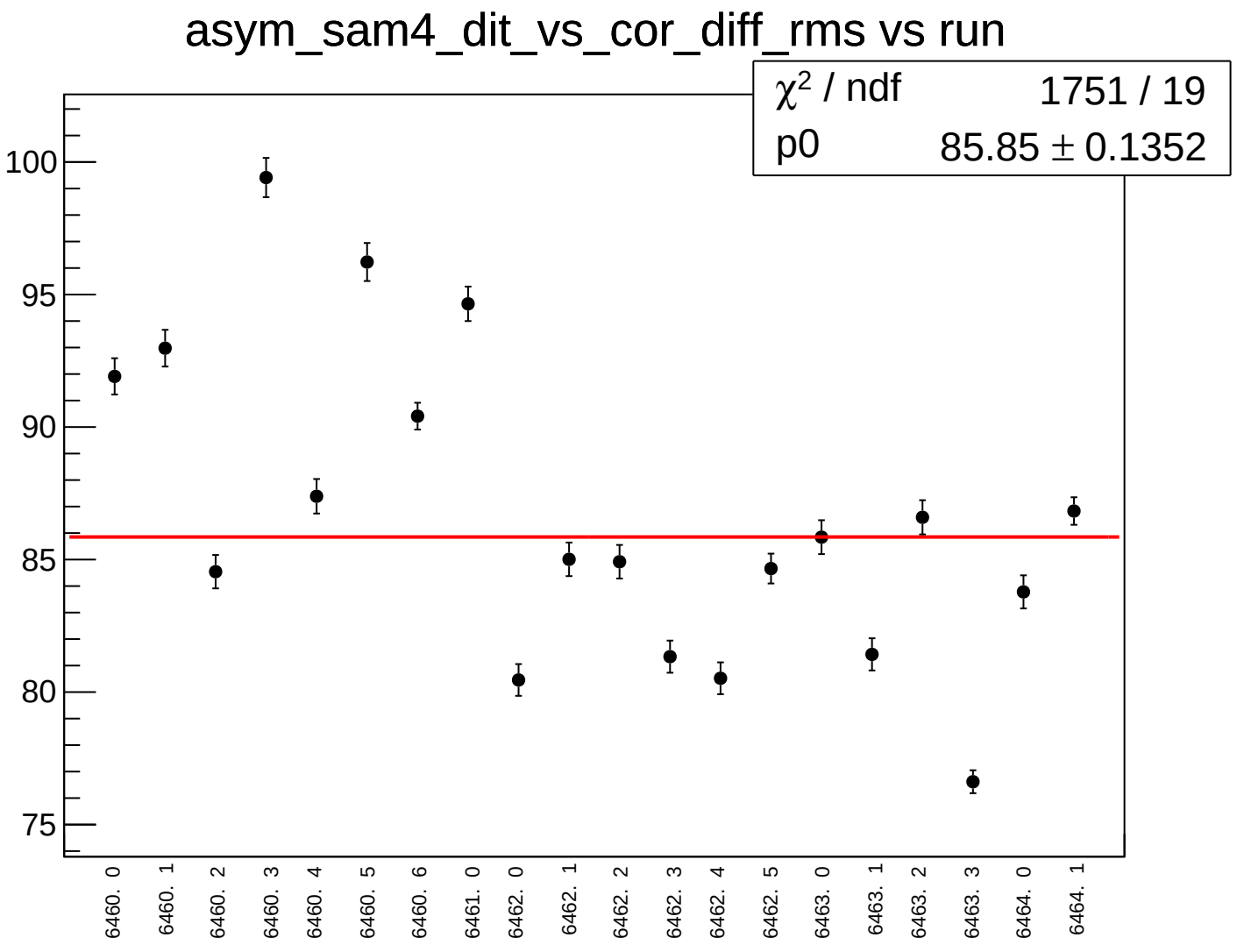

asym_sam4_rms vs run
χ² / ndf 671.3 / 19
p0 2453 ± 3.857
2700
2600
2500
2400
2300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

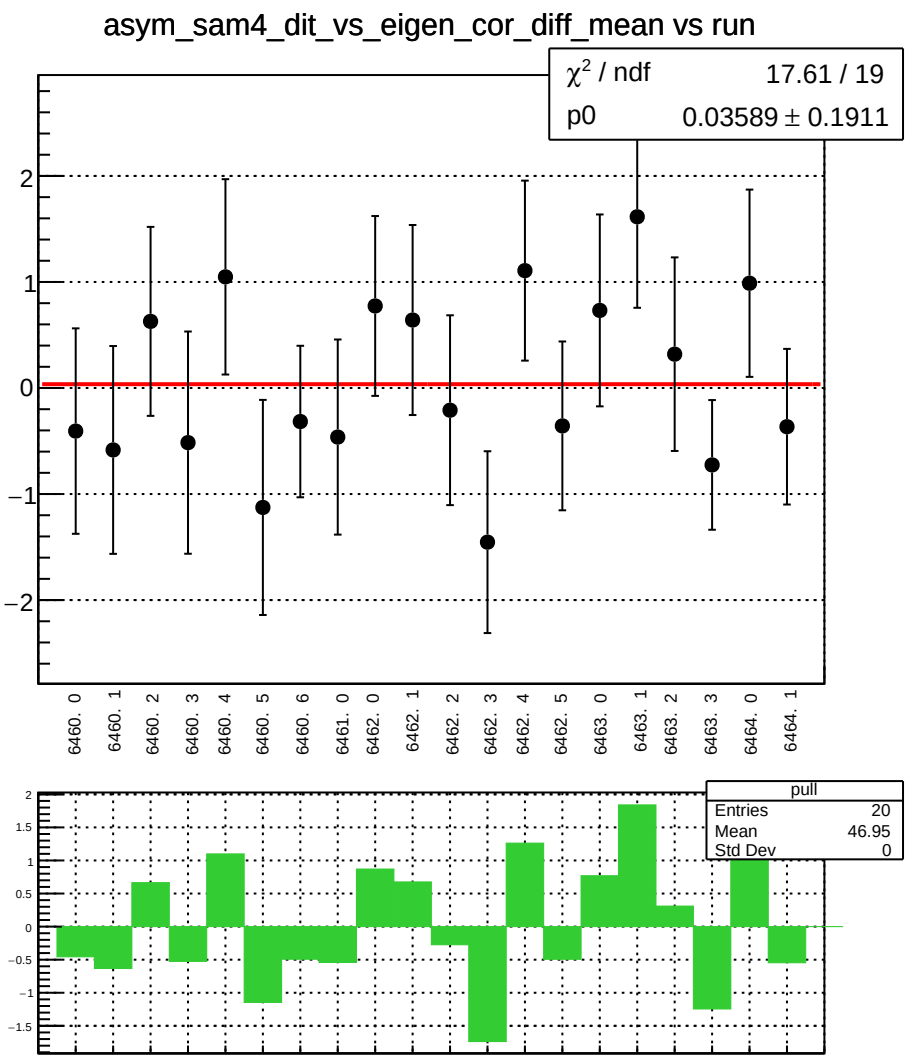

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 25.76 / 19
p0 2.818e−13 ± 2.438e−13
0.001
0.0005
0
−0.0005
−0.001
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.998
Std Dev 7.055
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

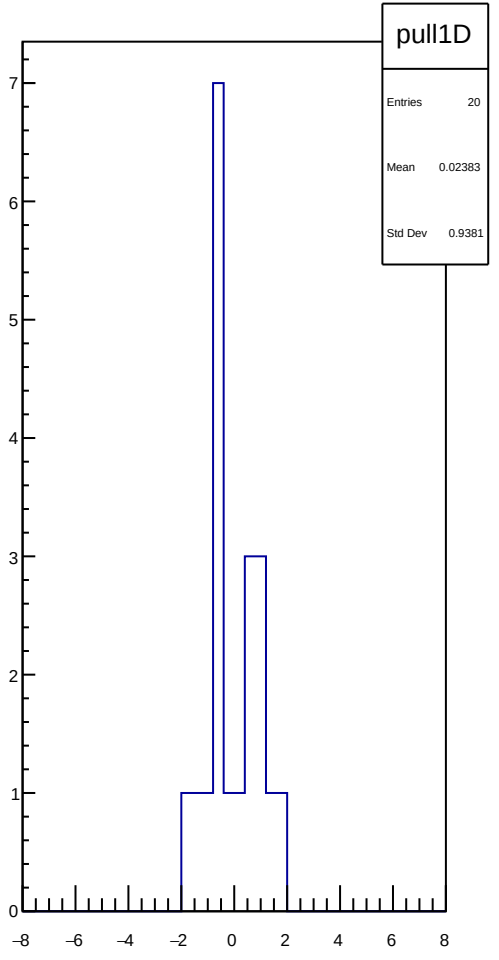

pull1D
Entries 20
Mean −0.0832
Std Dev 1.132
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

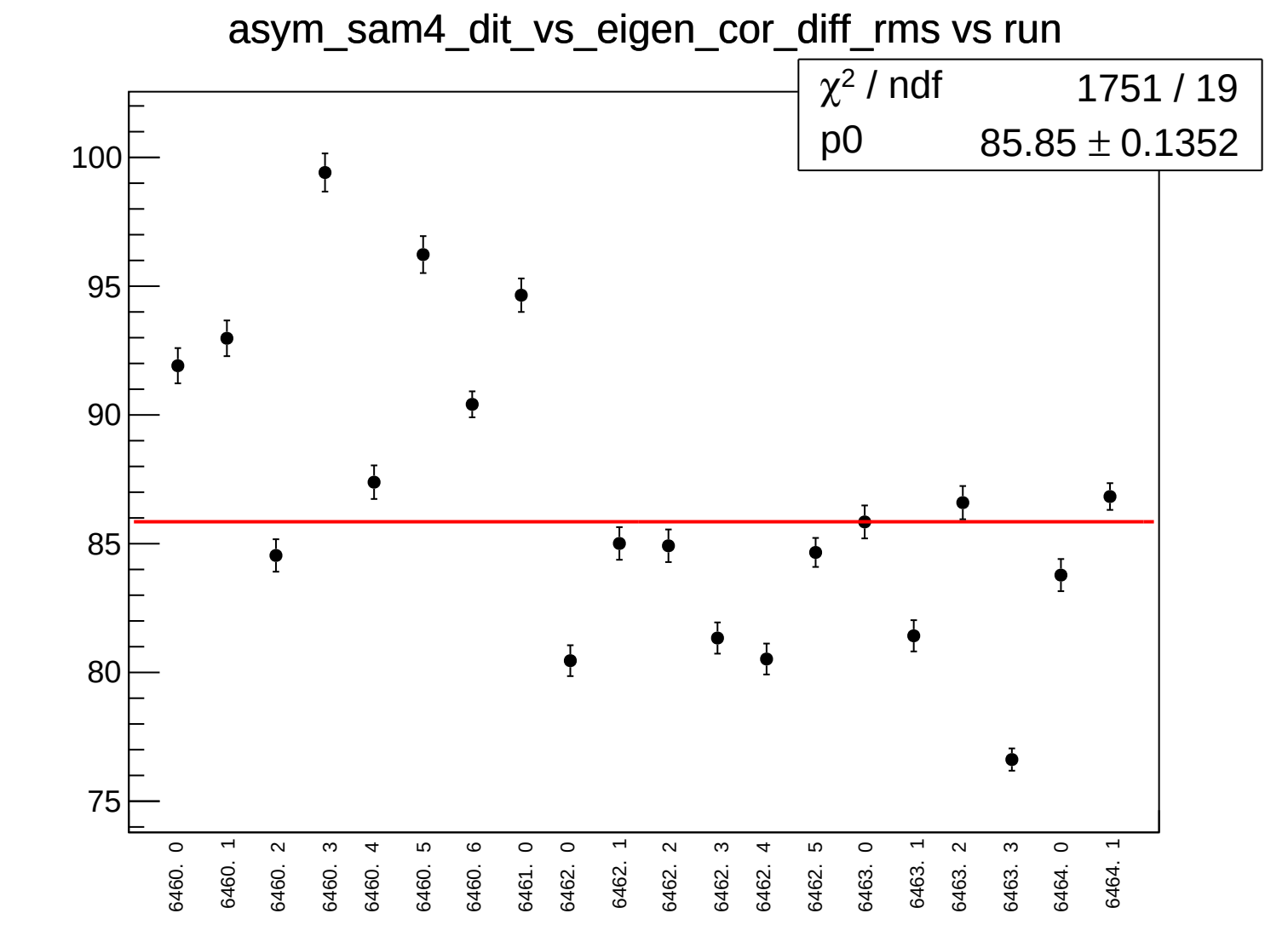

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 2.988e+05 / 19
p0 5.623e−11 ± 1.724e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

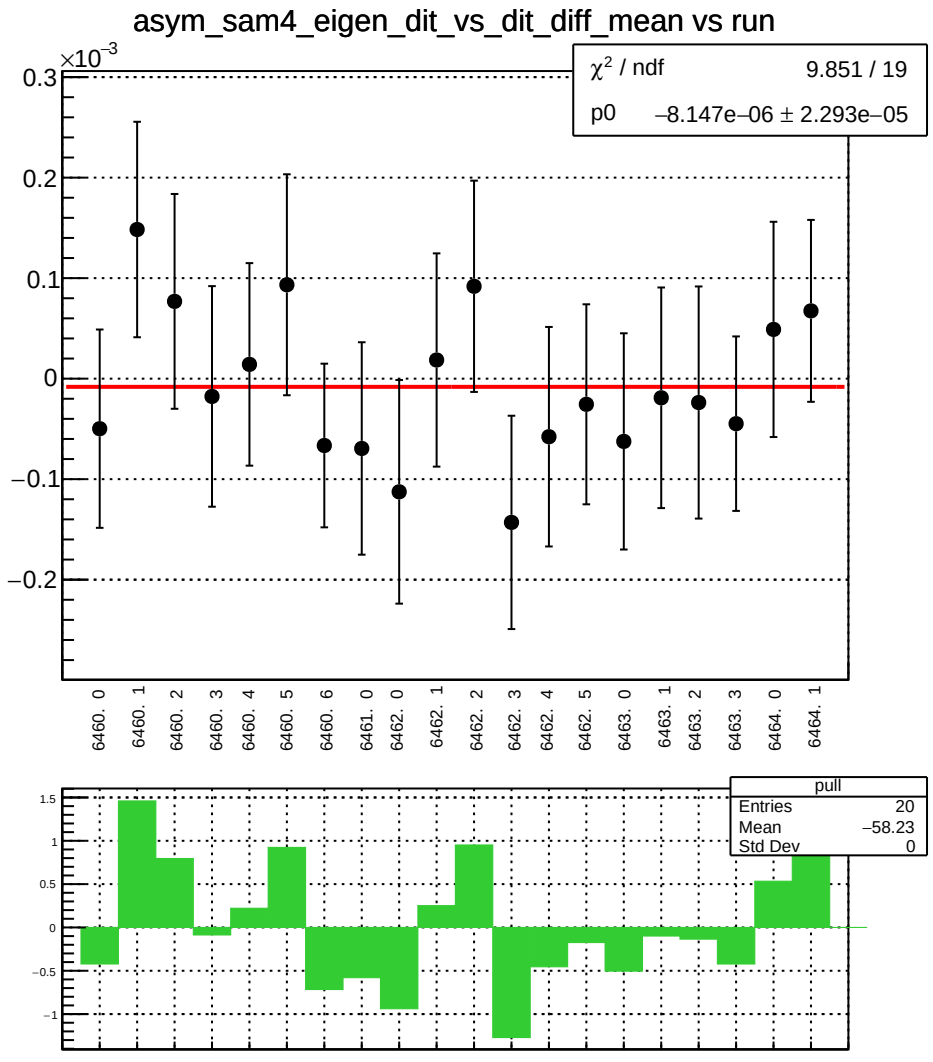

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 17.61 / 19
p0 0.03589 ± 0.1911
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.95
Std Dev 0
pull1D
Entries 20
Mean 0.02383
Std Dev 0.9381

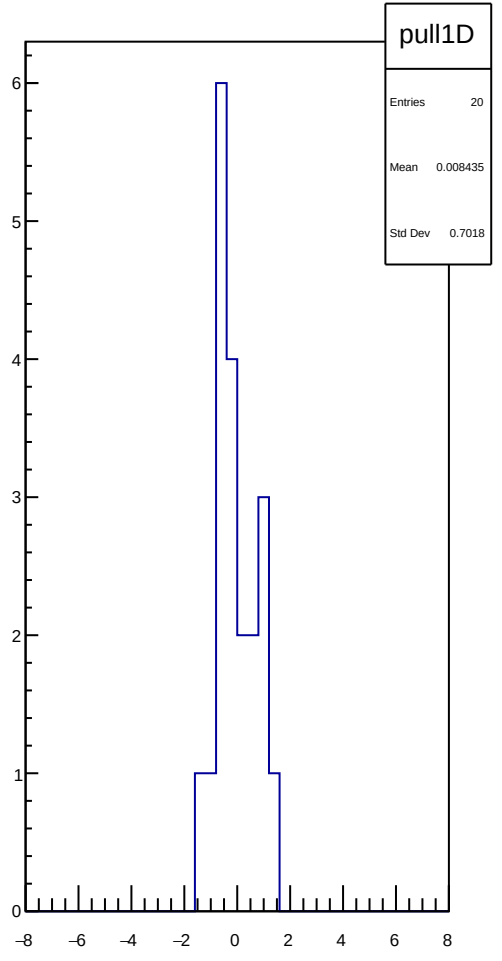

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1751 / 19
p0 85.85 ± 0.1352
100
95
90
85
80
75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

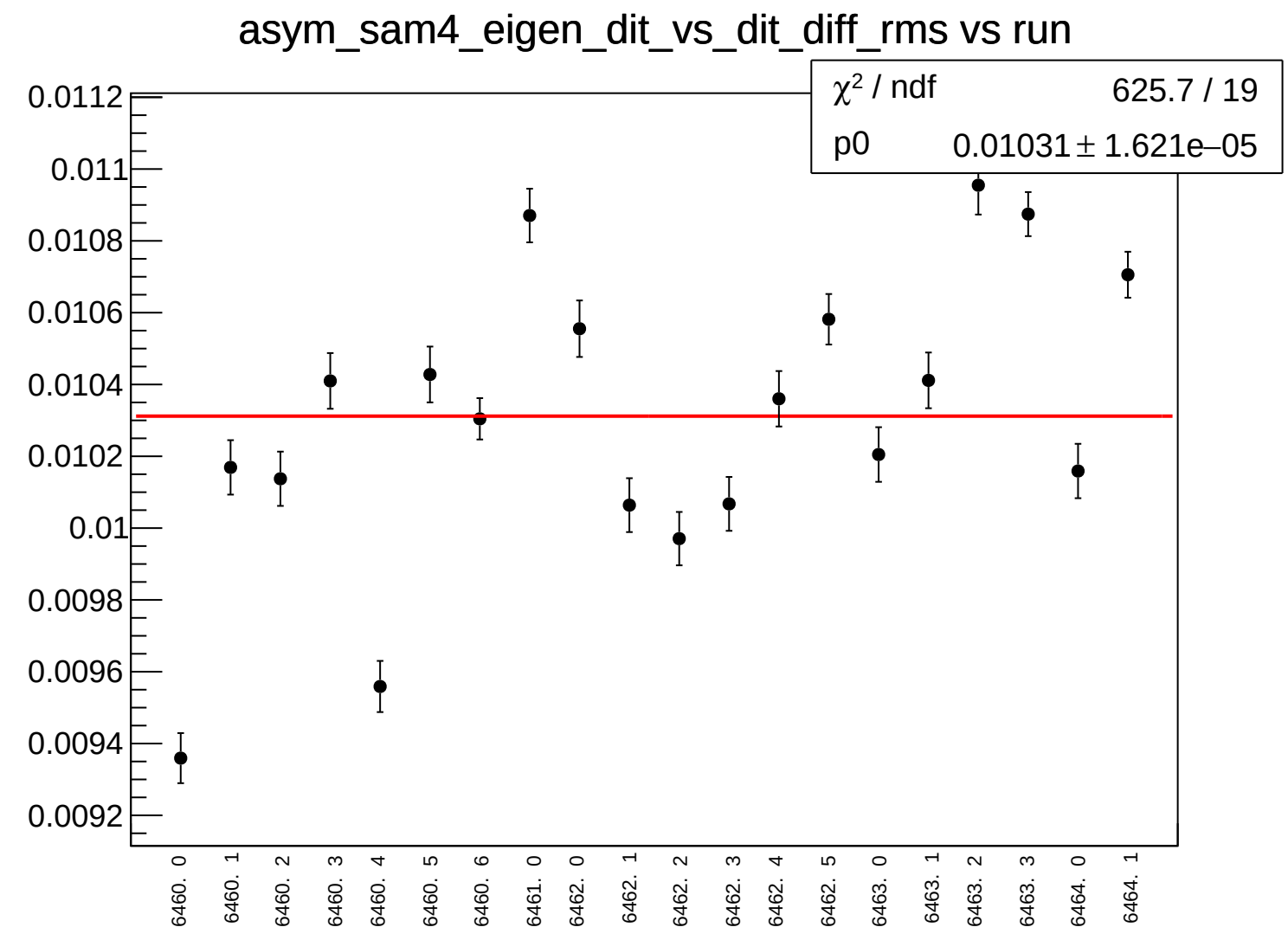

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.61 / 19
p0 0.03589 ± 0.1911
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

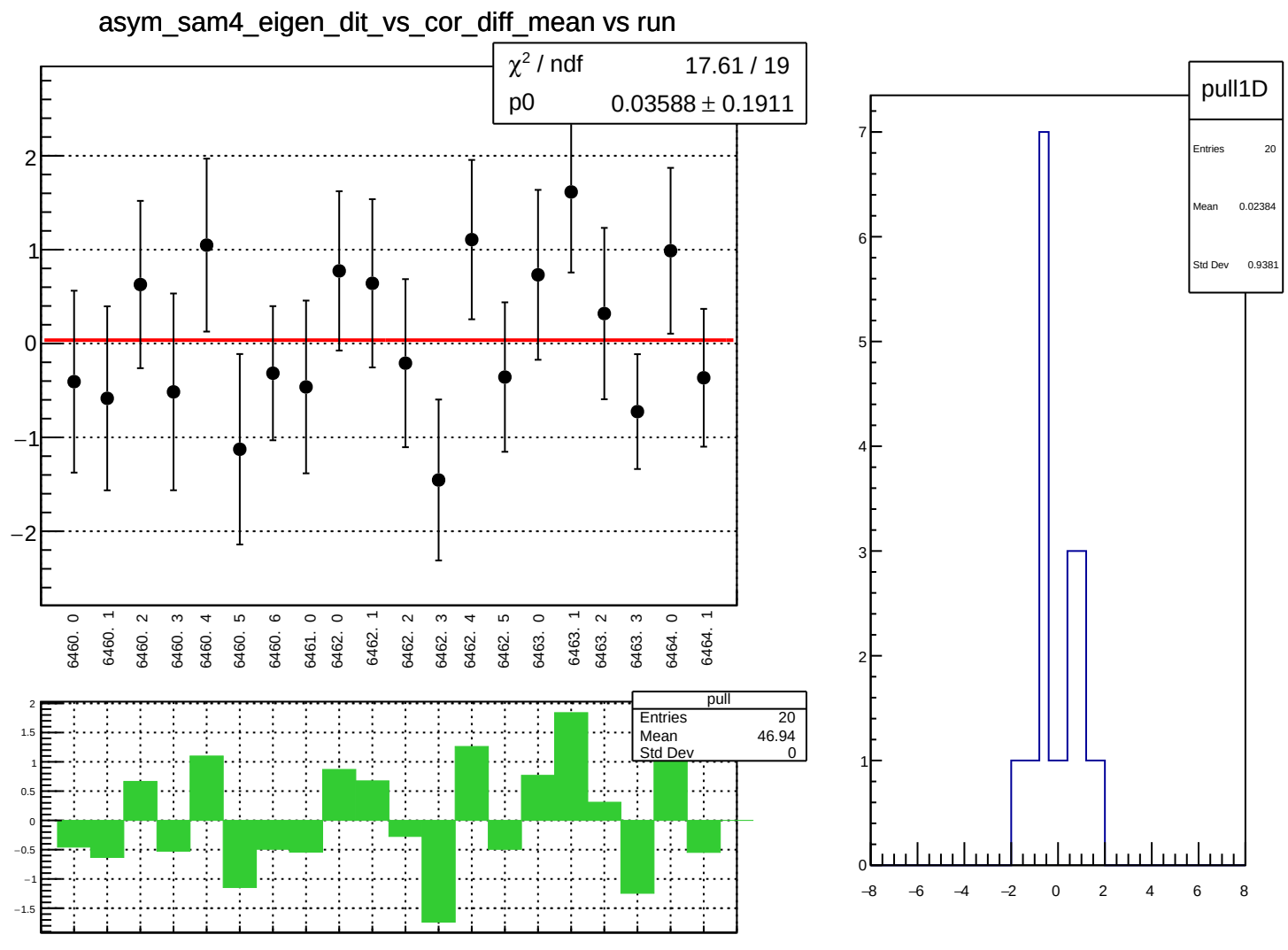

pull1D
Entries 20
Mean 0.02383
Std Dev 0.9381
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

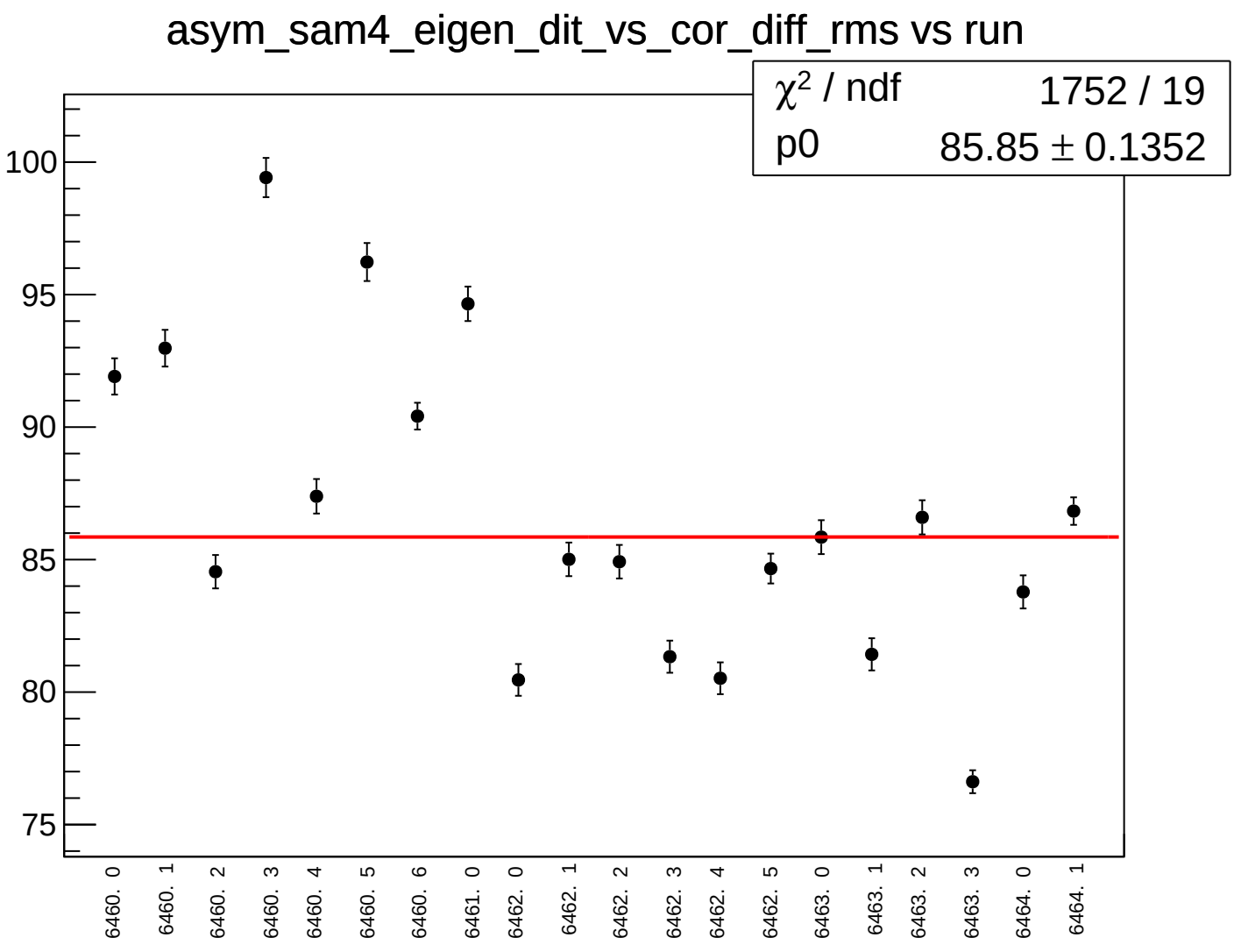

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1751 / 19
p0 85.85 ± 0.1352
100
95
90
85
80
75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

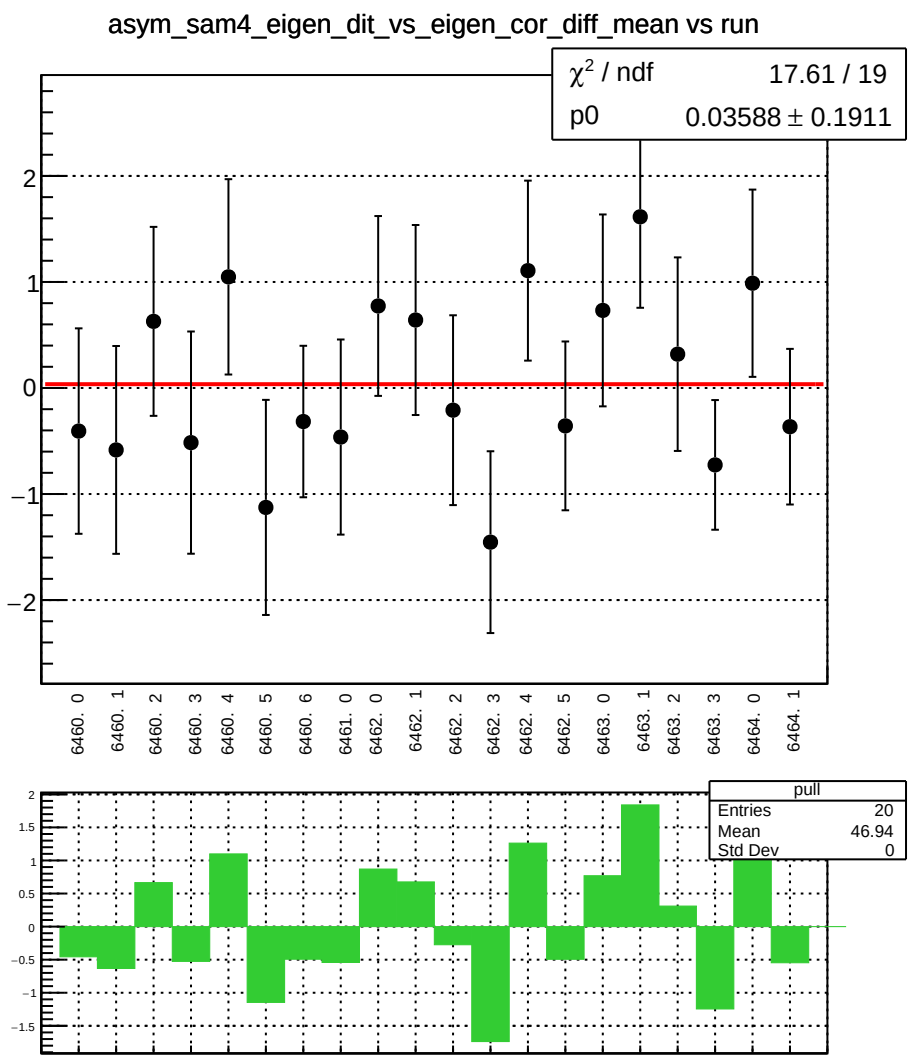

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 9.851 / 19
p0 −8.147e−06 ± 2.293e−05
0.3
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1

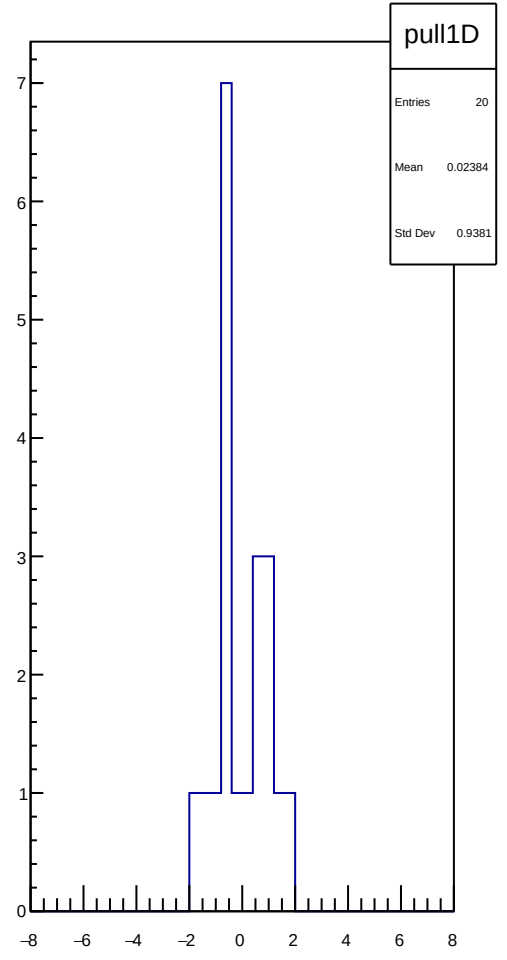

pull1D
Entries 20
Mean 0.008435
Std Dev 0.7018
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

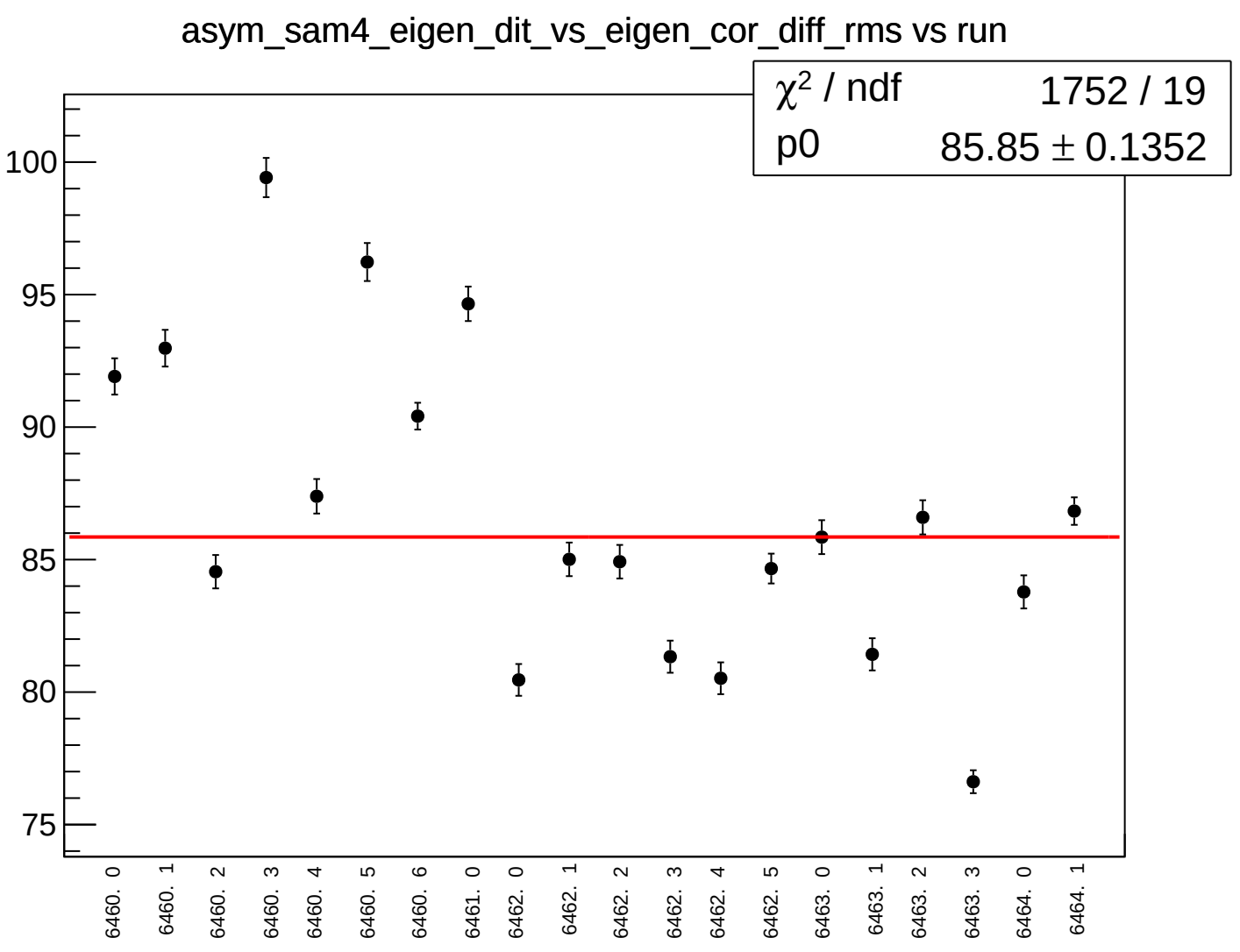

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 625.7 / 19
p0 0.01031 ± 1.621e–05
0.0112
0.011
0.0108
0.0106
0.0104
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

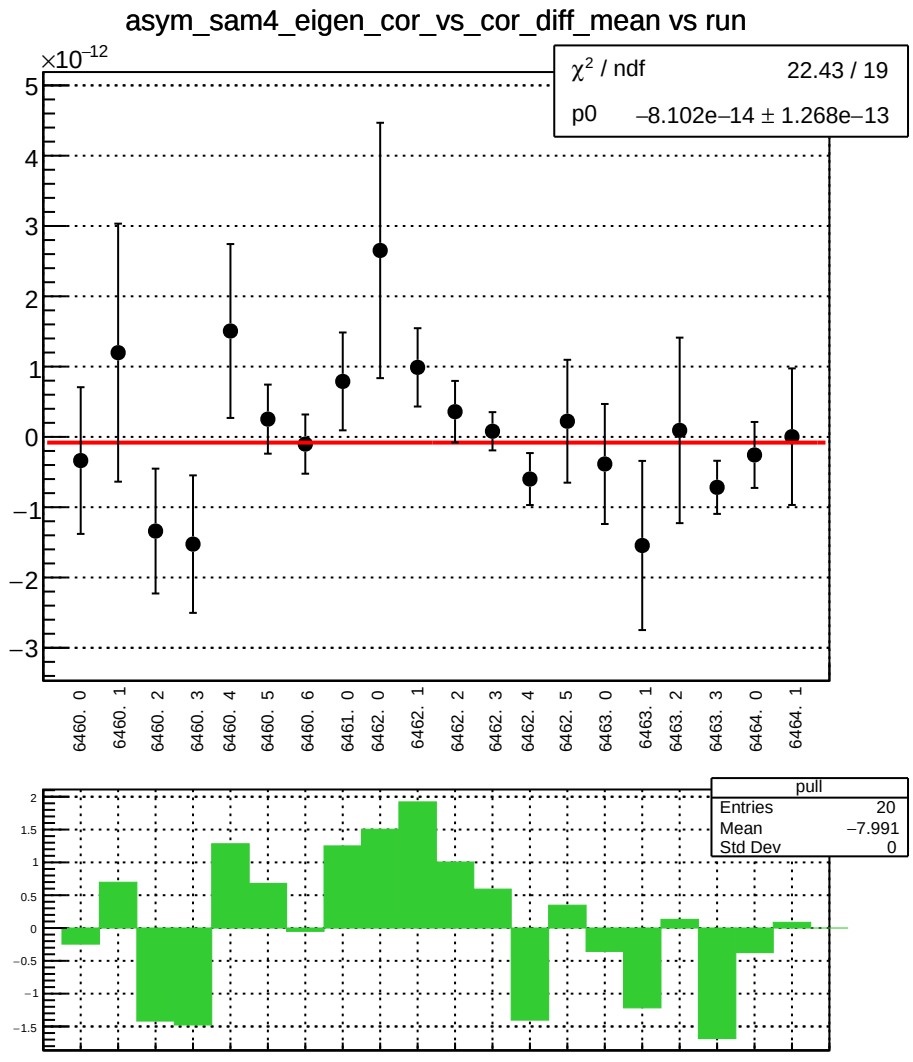

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.61 / 19
p0 0.03588 ± 0.1911
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.94
Std Dev 0
pull1D
Entries 20
Mean 0.02384
Std Dev 0.9381

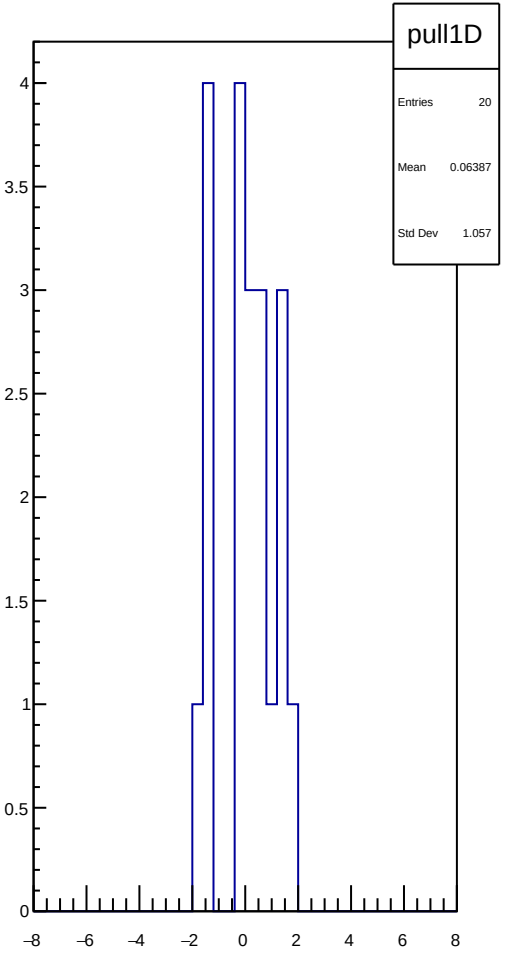

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1752 / 19
p0 85.85 ± 0.1352
100
95
90
85
80
75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

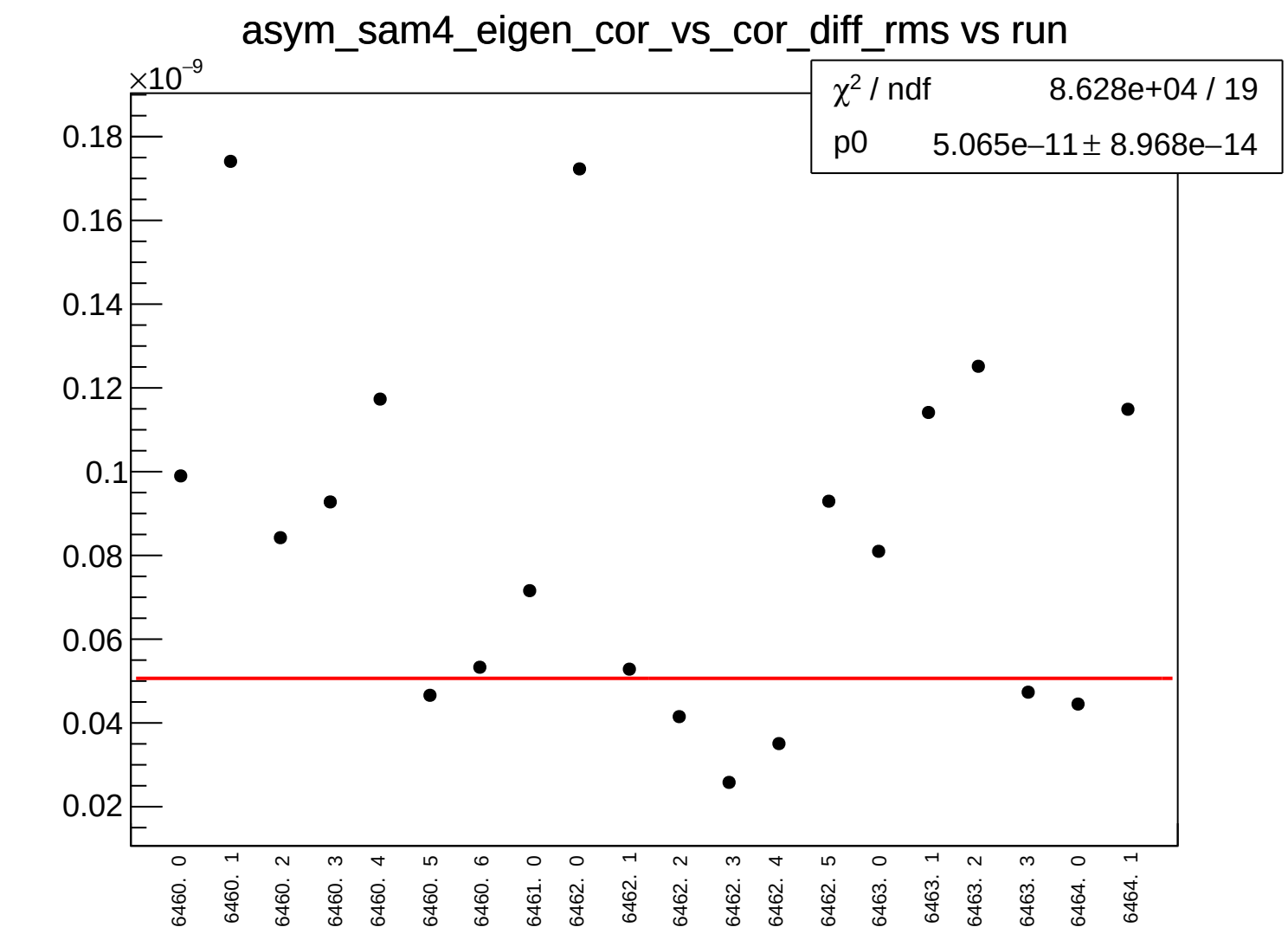

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.61 / 19
p0 0.03588 ± 0.1911
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

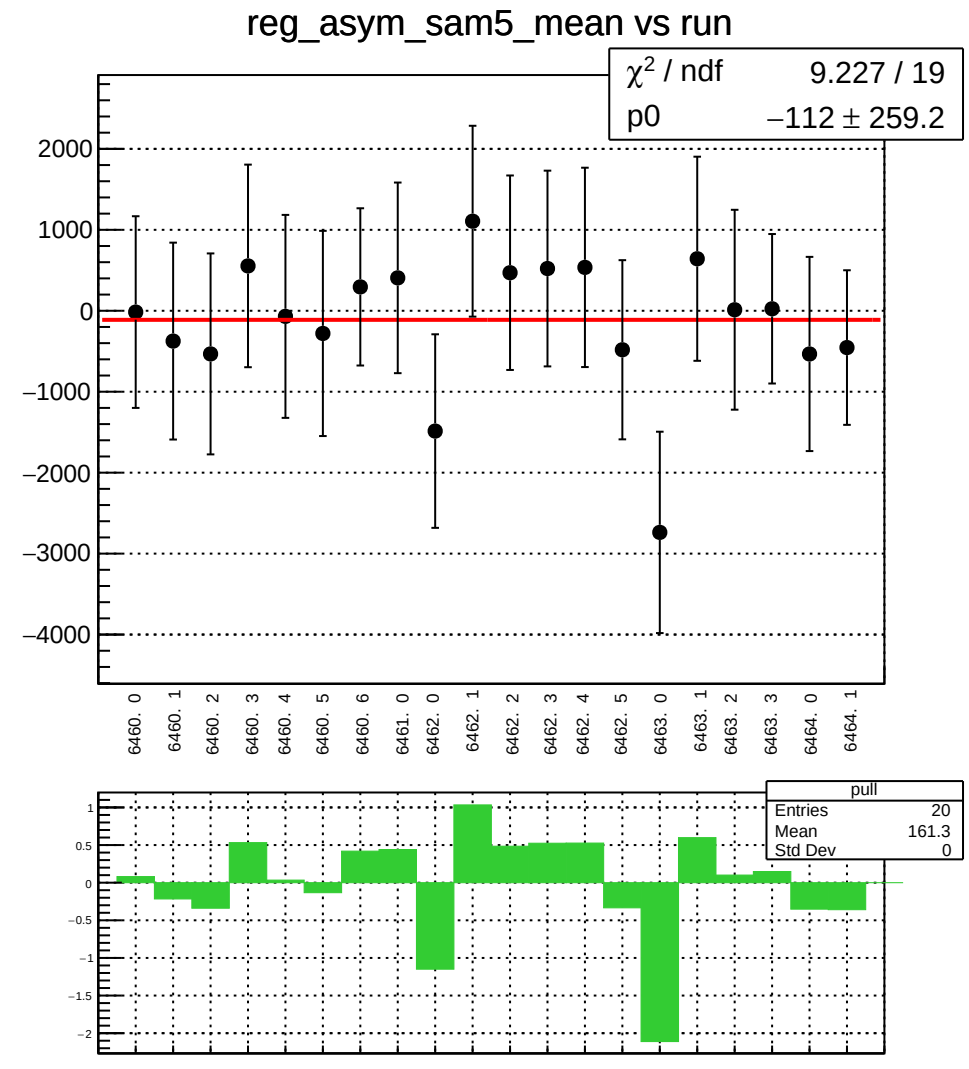

pull1D
Entries 20
Mean 0.02384
Std Dev 0.9381
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

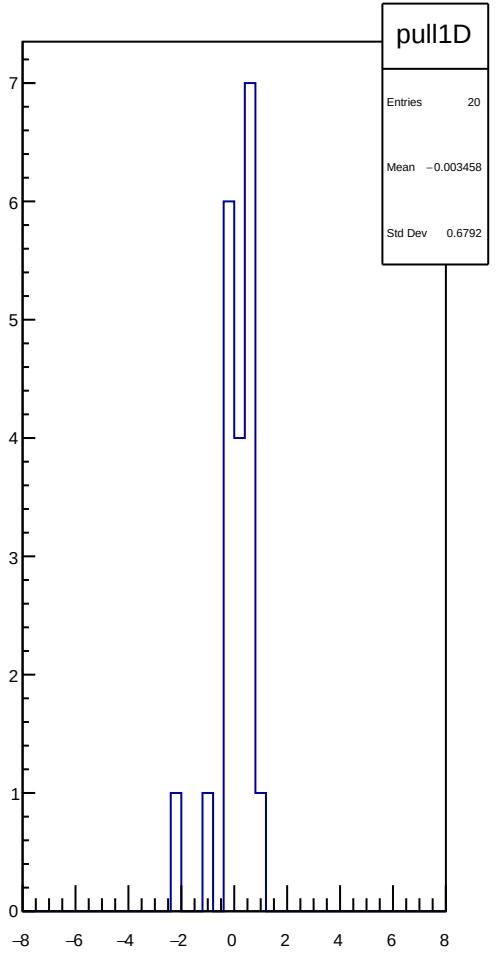

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1752 / 19
p0 85.85 ± 0.1352
100
95
90
85
80
75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

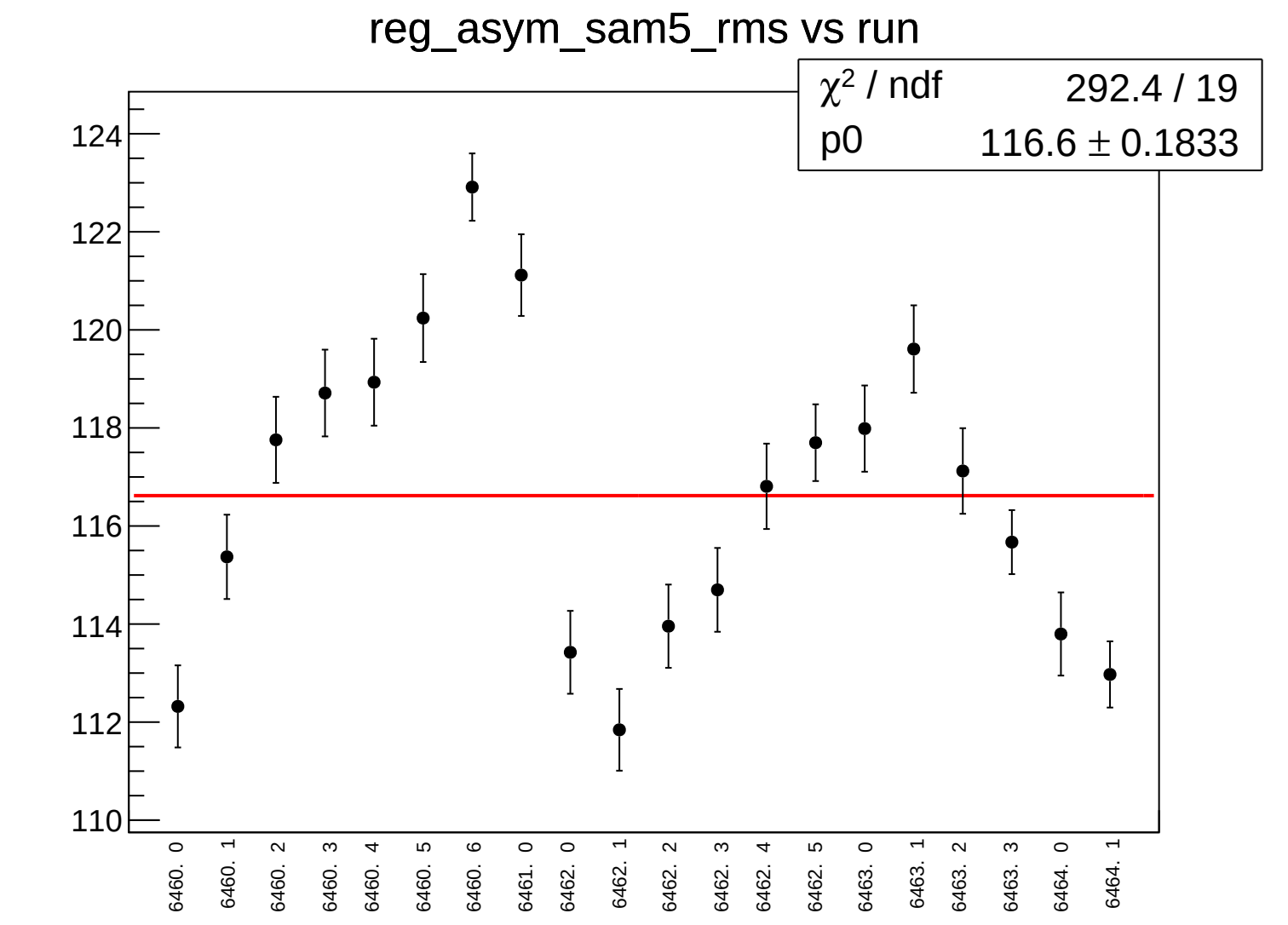

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.43 / 19
p0 −8.102e−14 ± 1.268e−13
5
4
3
2
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −7.991
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

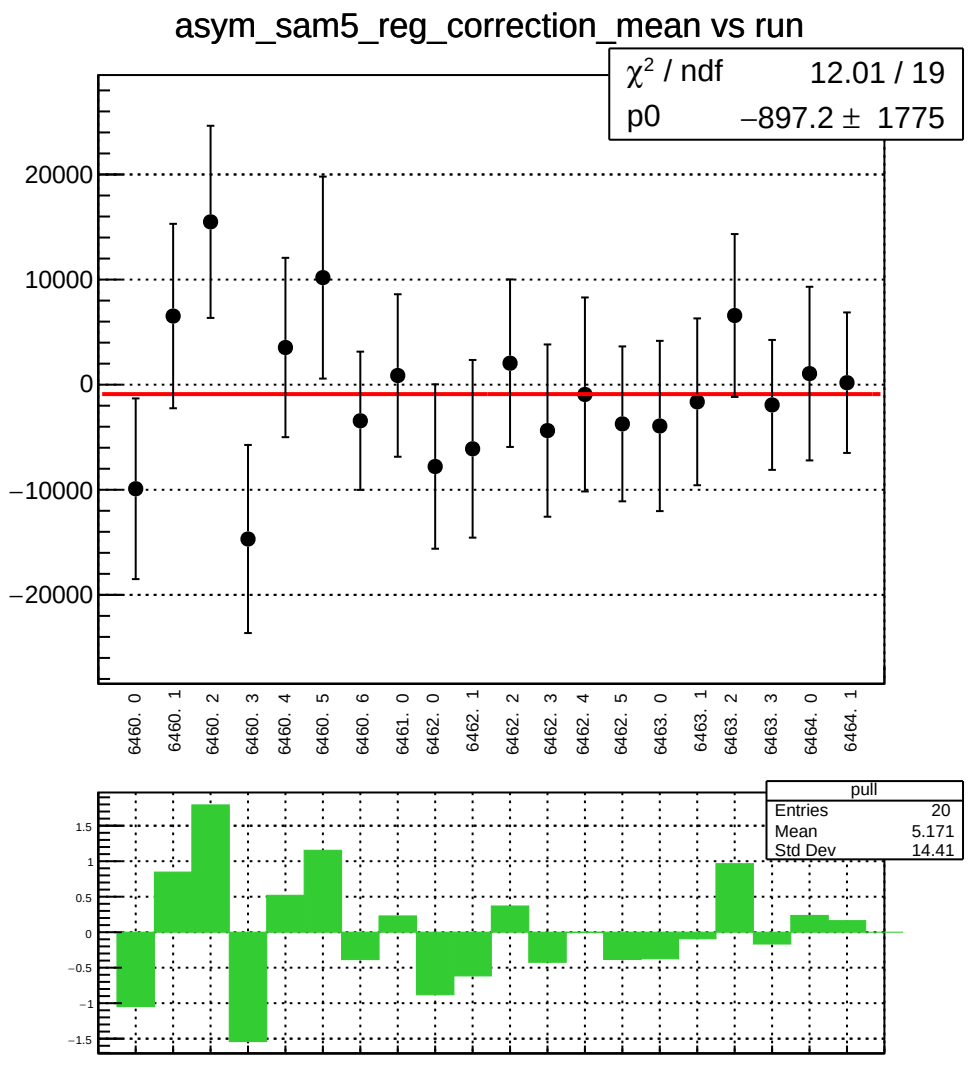

pull1D
Entries 20
Mean 0.06387
Std Dev 1.057
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

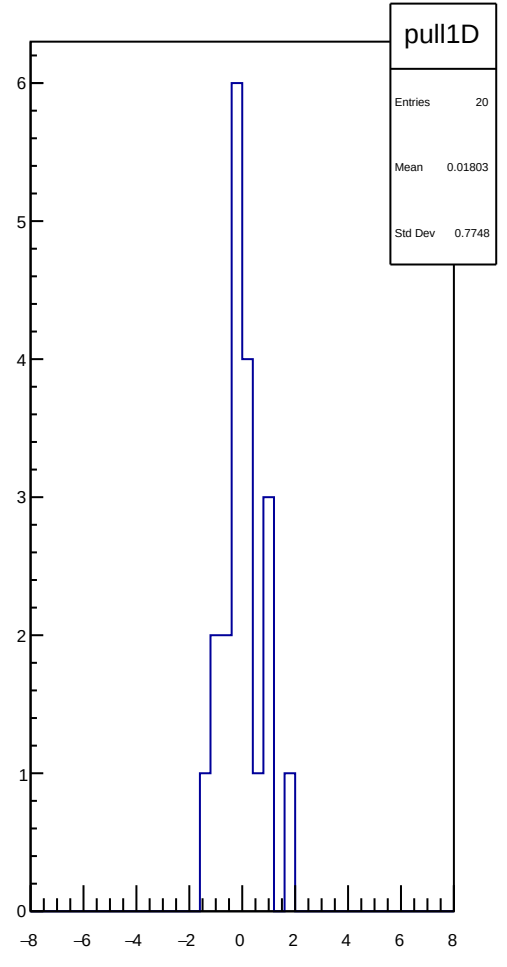

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.628e+04 / 19
p0 5.065e−11 ± 8.968e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

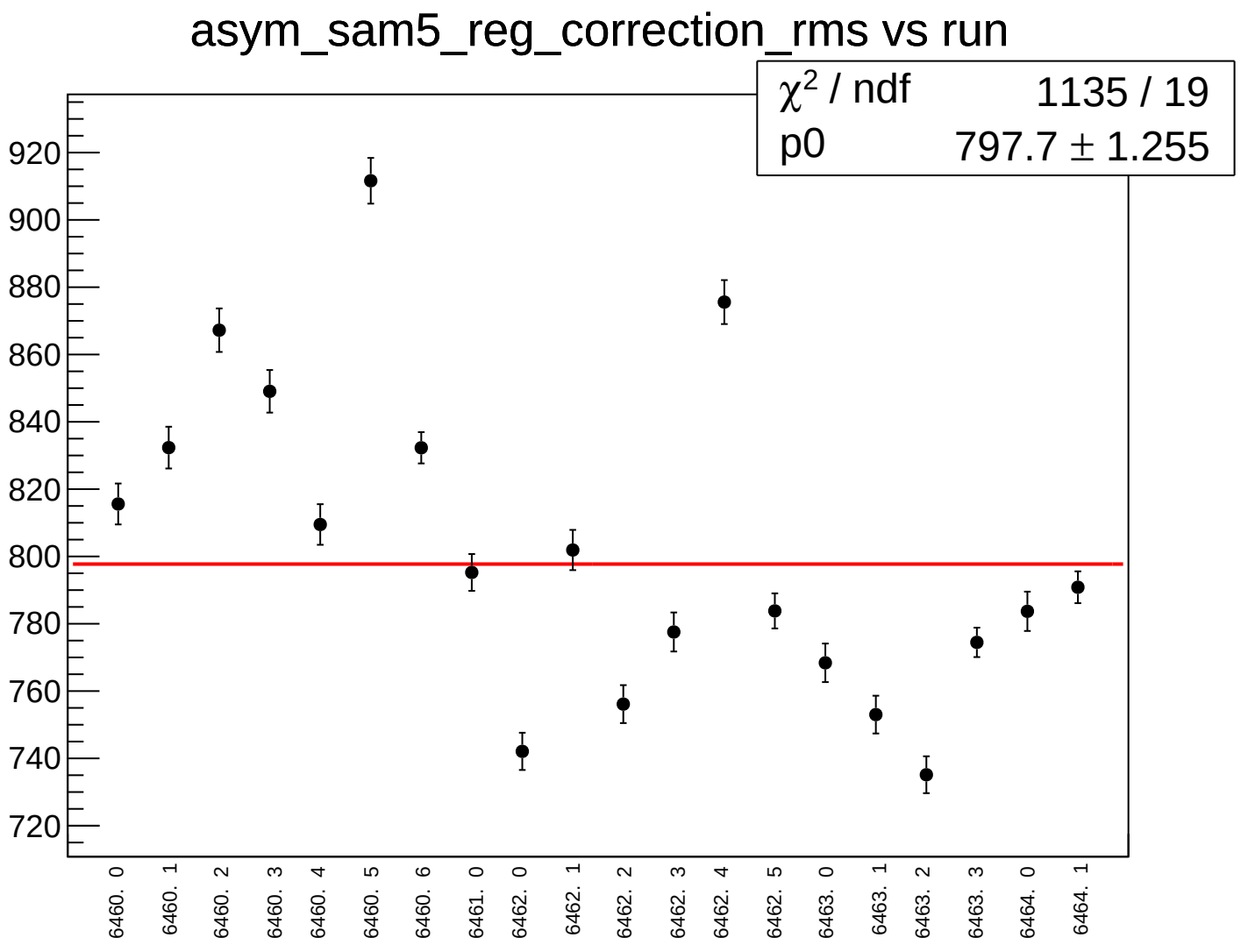

reg_asym_sam5_mean vs run
χ² / ndf 9.227 / 19
p0 −112 ± 259.2
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 161.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

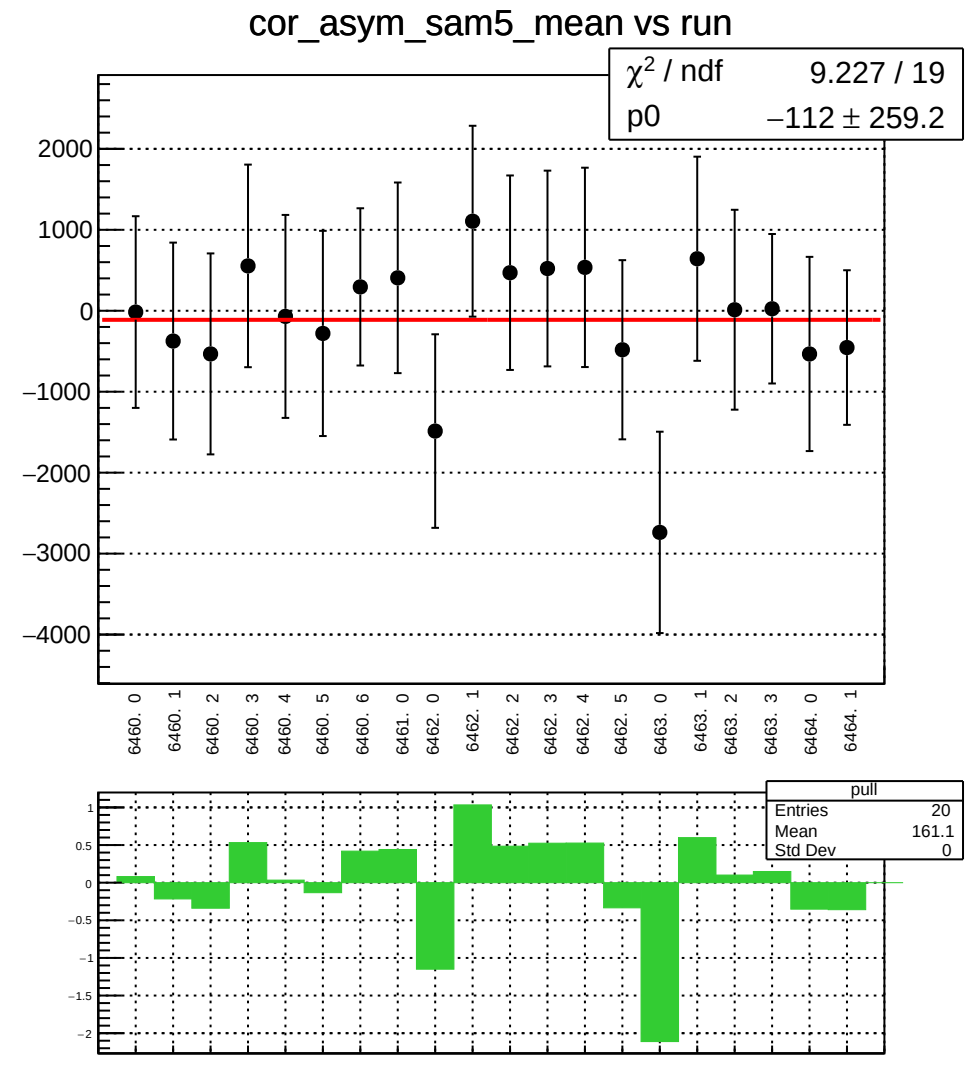

pull1D
Entries 20
Mean −0.003458
Std Dev 0.6792
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

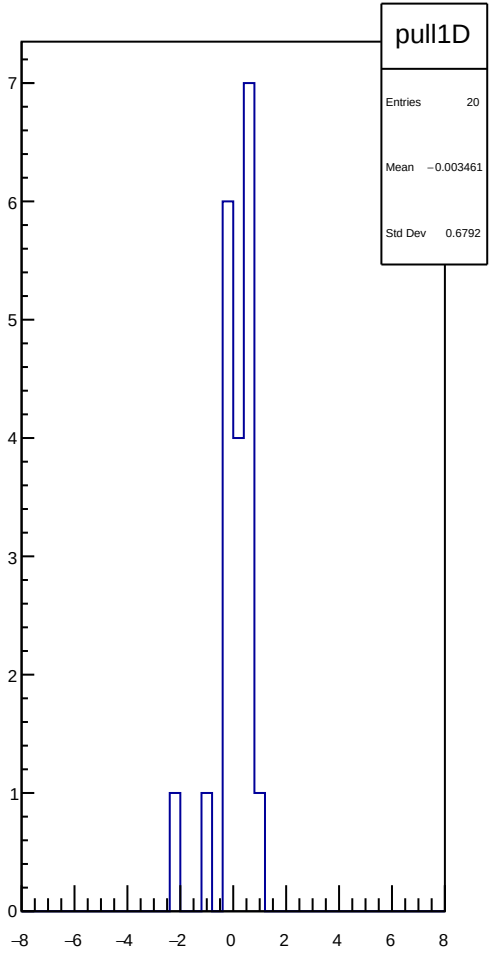

reg_asym_sam5_rms vs run
χ² / ndf 292.4 / 19
p0 116.6 ± 0.1833
124
122
120
118
116
114
112
110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

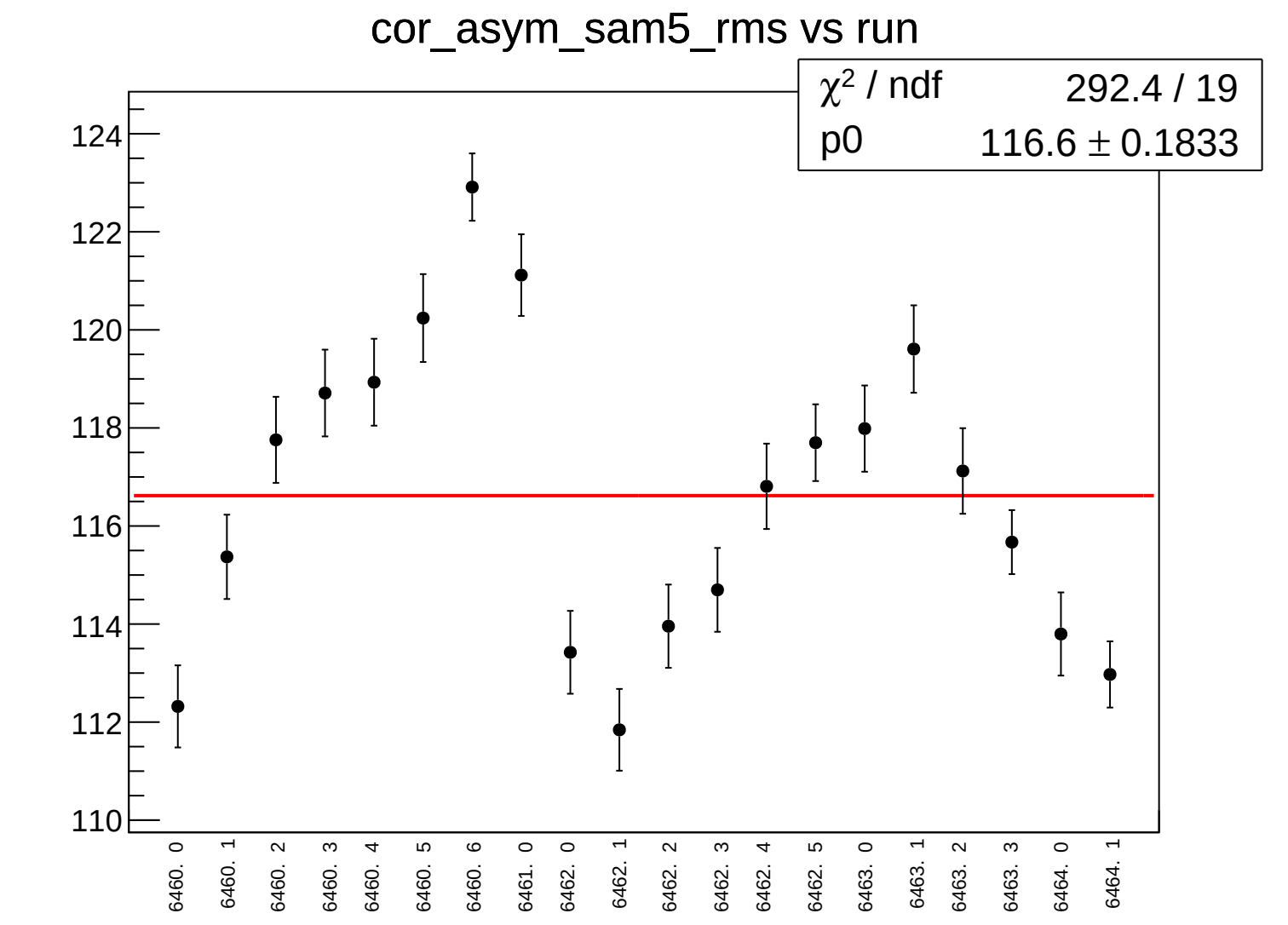

asym_sam5_reg_correction_mean vs run
χ² / ndf 12.01 / 19
p0 −897.2 ± 1775
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.171
Std Dev 14.41
1.5
1
0.5
0
−0.5
−1
−1.5

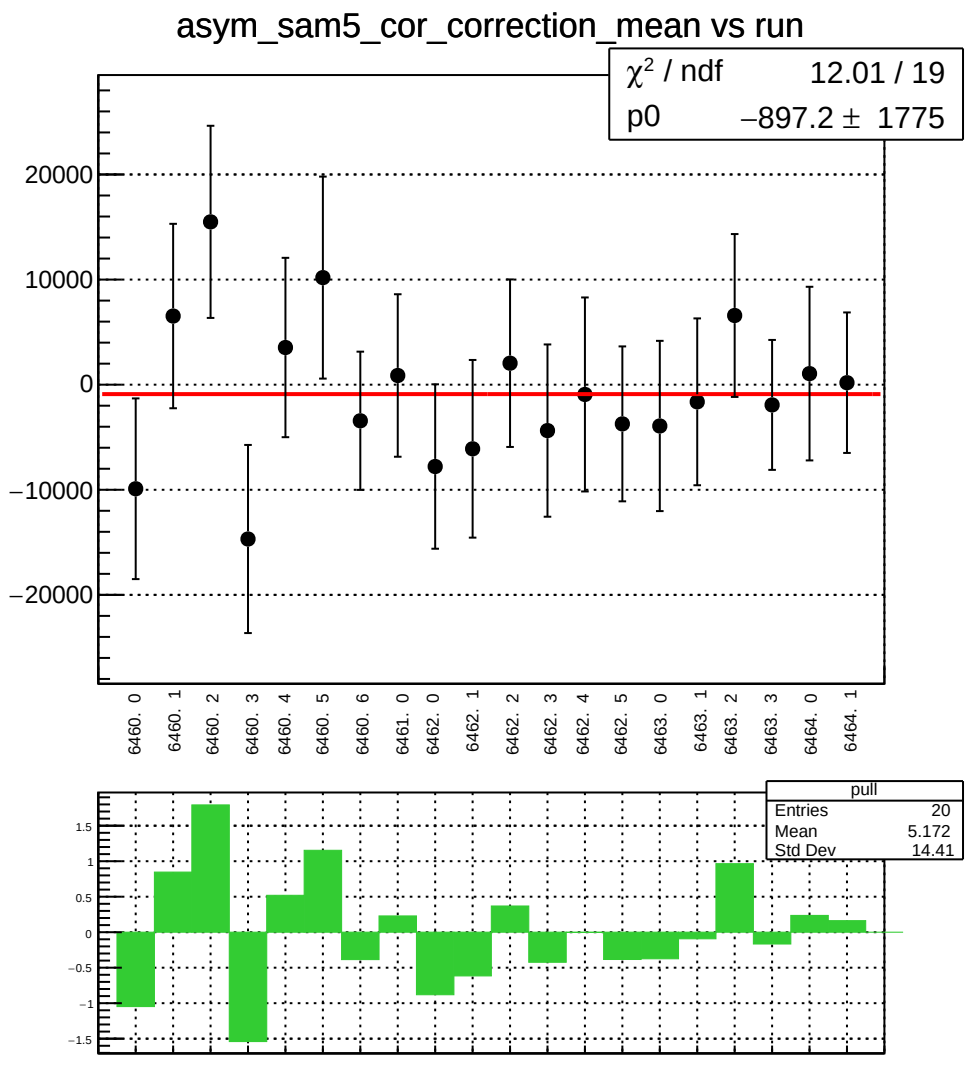

pull1D
Entries 20
Mean 0.01803
Std Dev 0.7748
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

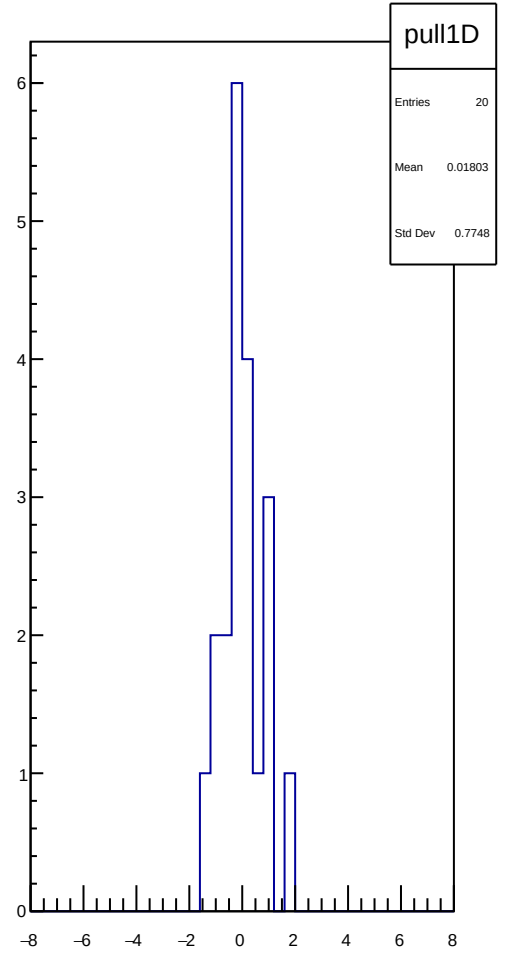

asym_sam5_reg_correction_rms vs run
χ² / ndf 1135 / 19
p0 797.7 ± 1.255
920
900
880
860
840
820
800
780
760
740
720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

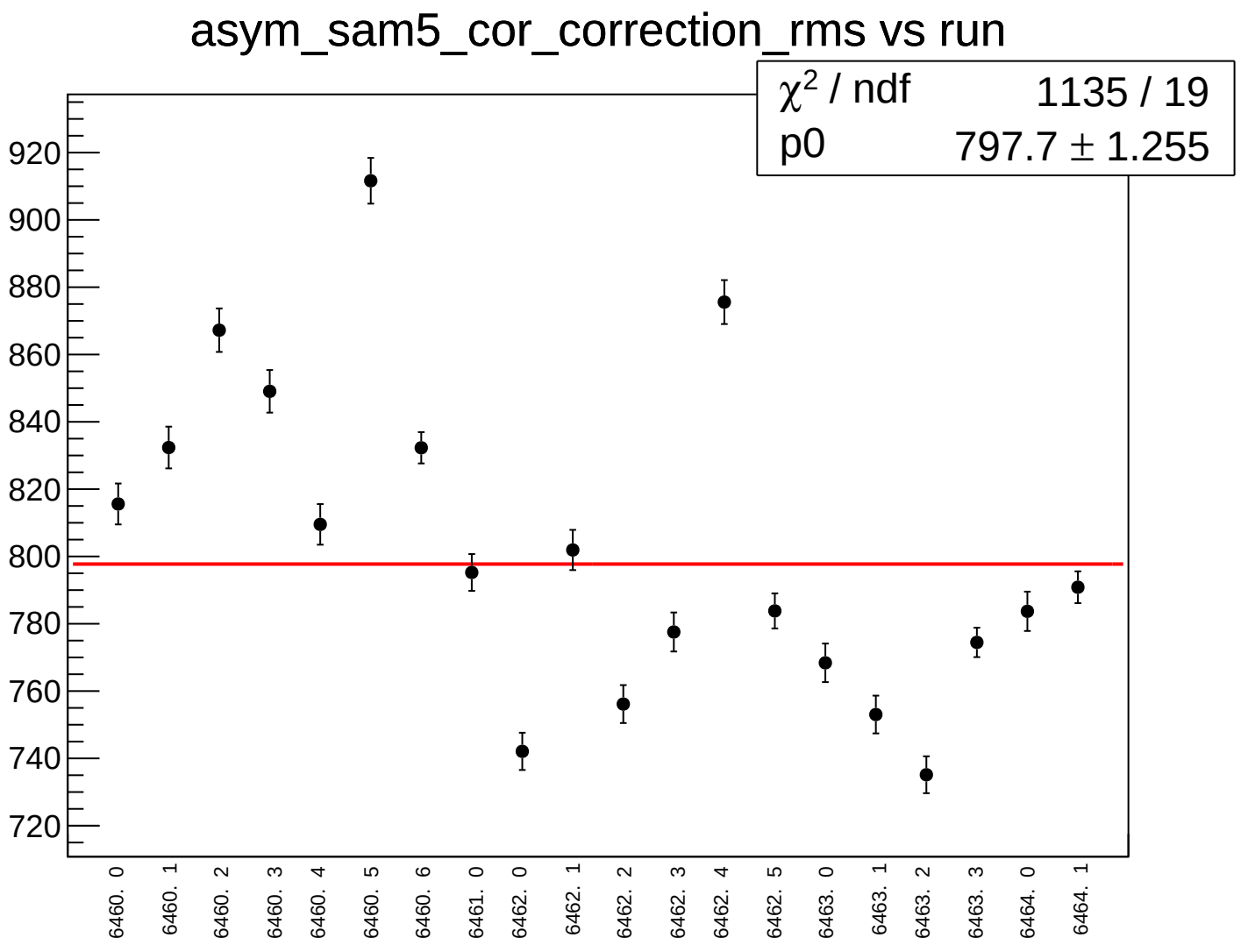

cor_asym_sam5_mean vs run
χ² / ndf 9.227 / 19
p0 −112 ± 259.2
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 161.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

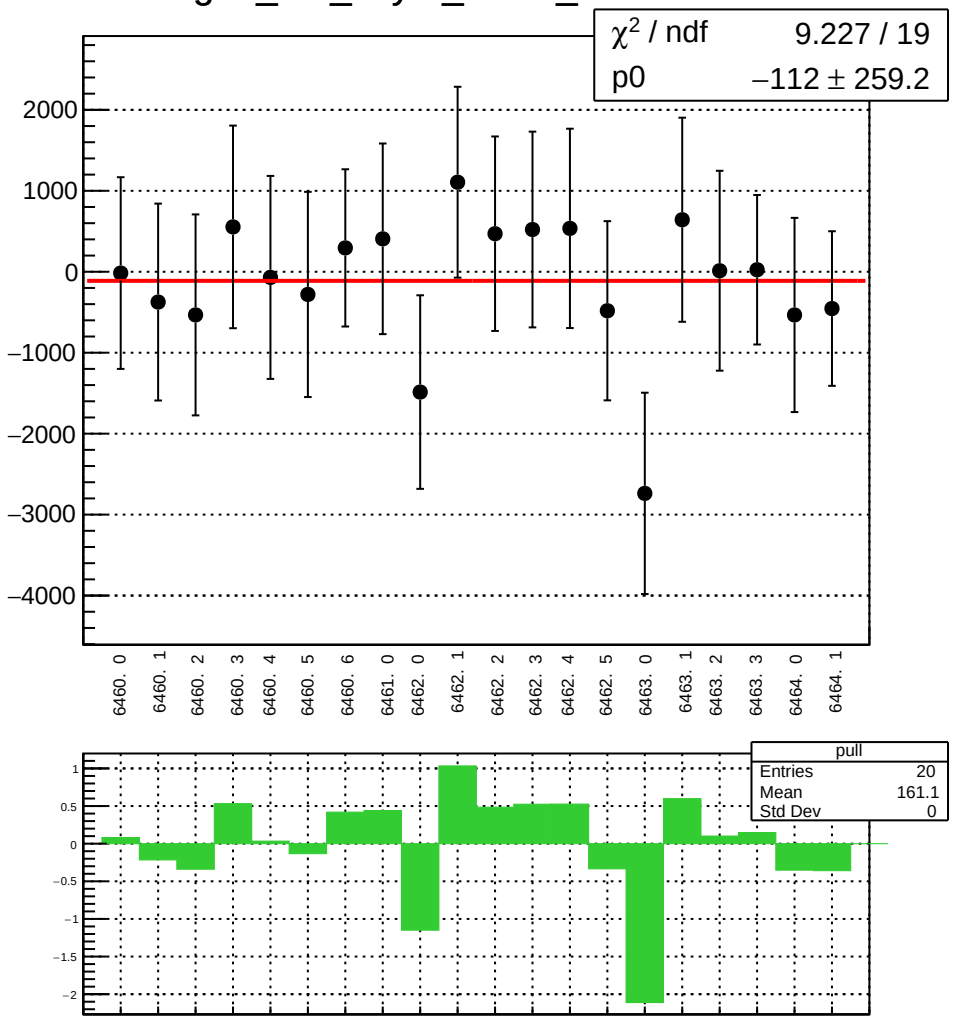

pull1D
Entries 20
Mean −0.003461
Std Dev 0.6792
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

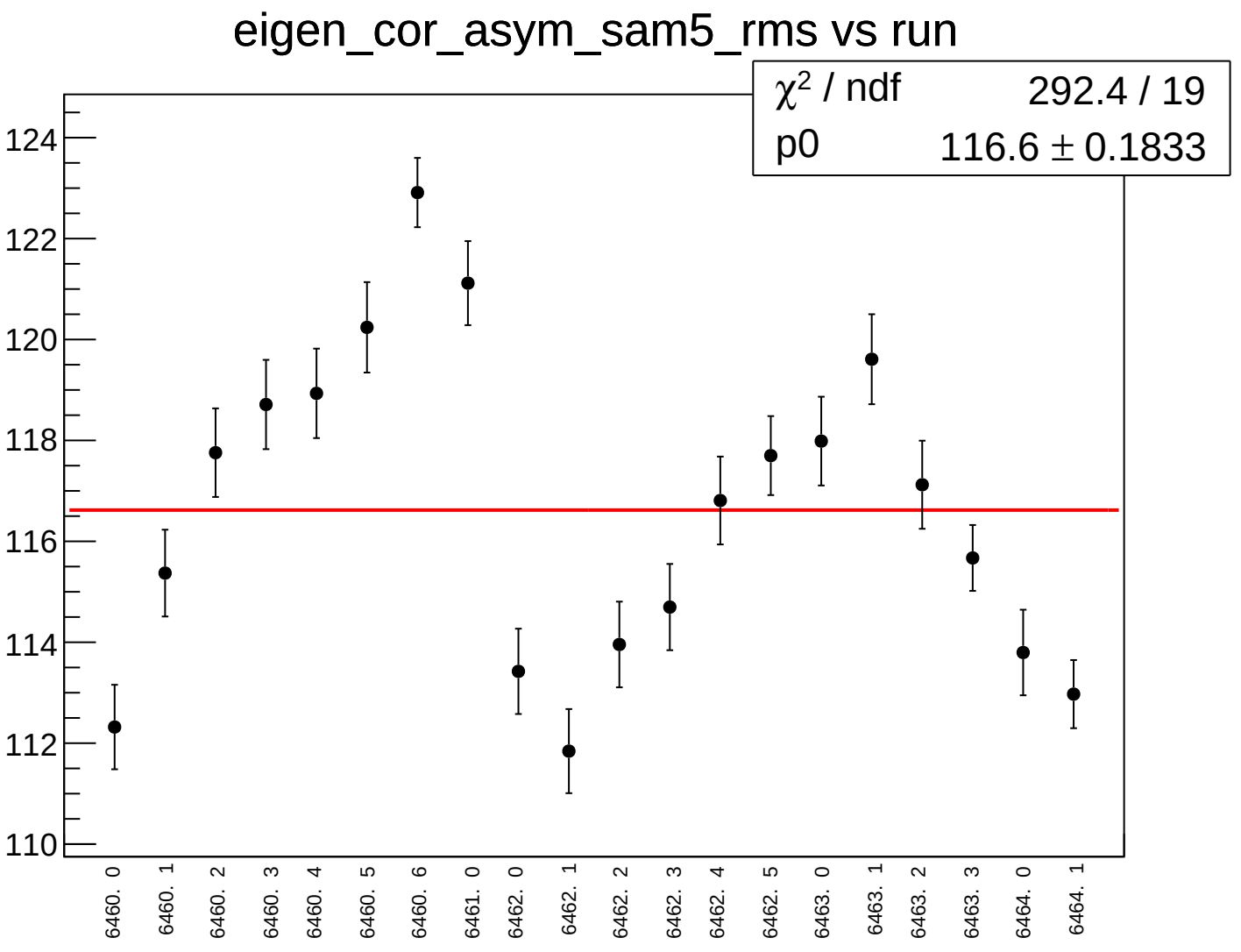

cor_asym_sam5_rms vs run
χ² / ndf 292.4 / 19
p0 116.6 ± 0.1833
124
122
120
118
116
114
112
110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

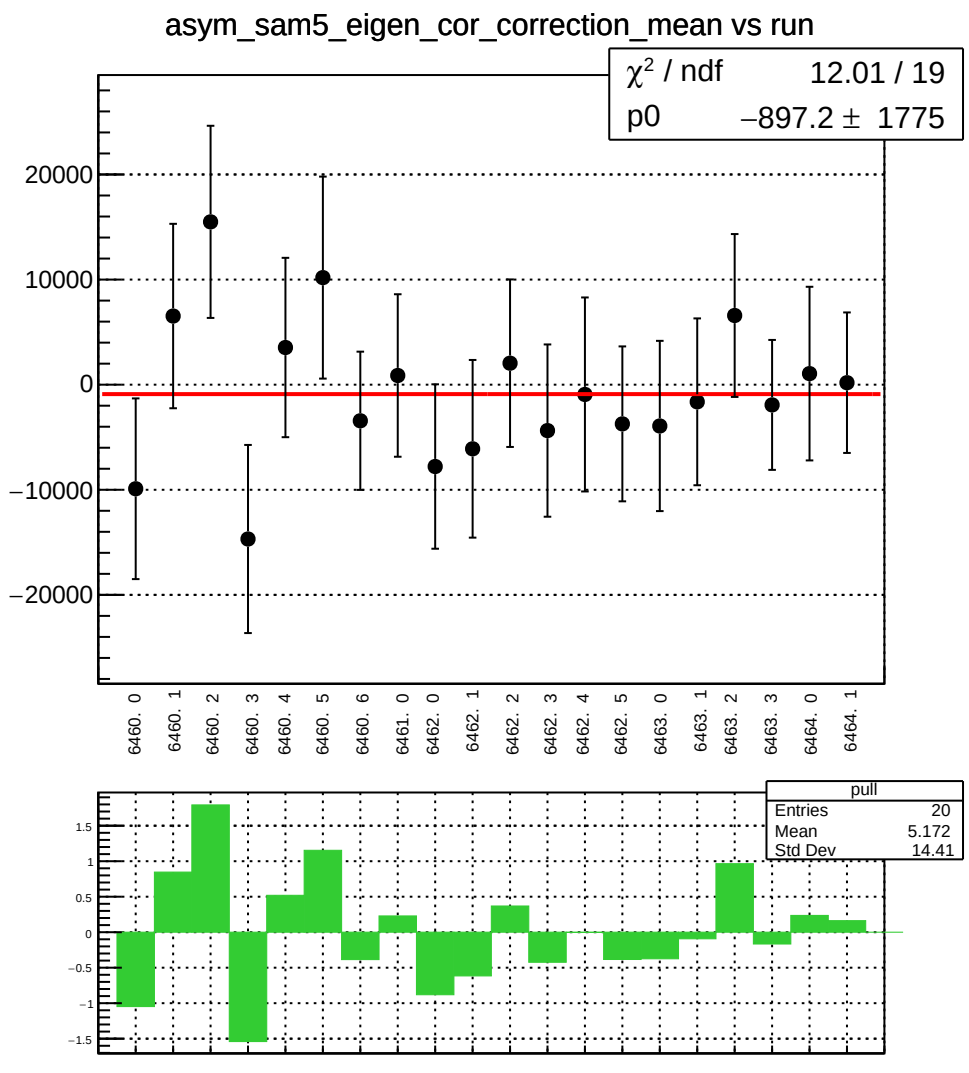

asym_sam5_cor_correction_mean vs run
χ² / ndf 12.01 / 19
p0 −897.2 ± 1775
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.172
Std Dev 14.41
1.5
1
0.5
0
−0.5
−1
−1.5

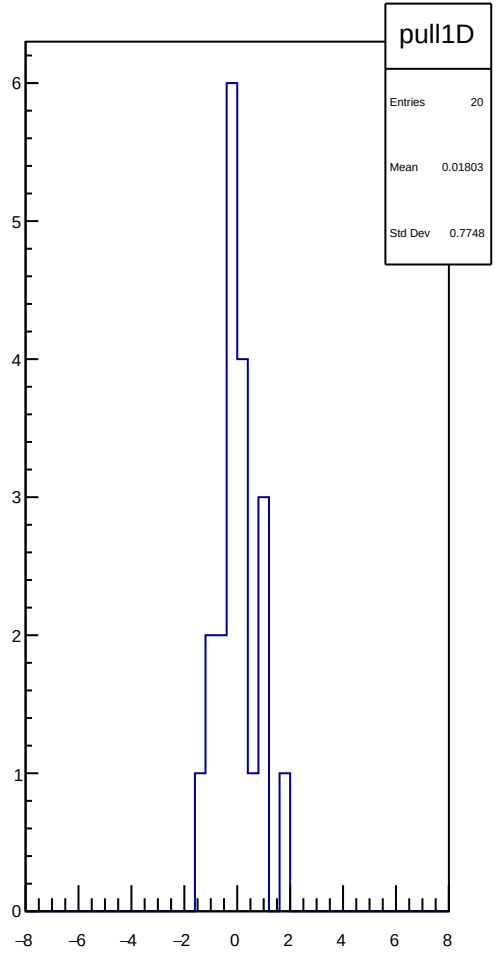

pull1D
Entries 20
Mean 0.01803
Std Dev 0.7748
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

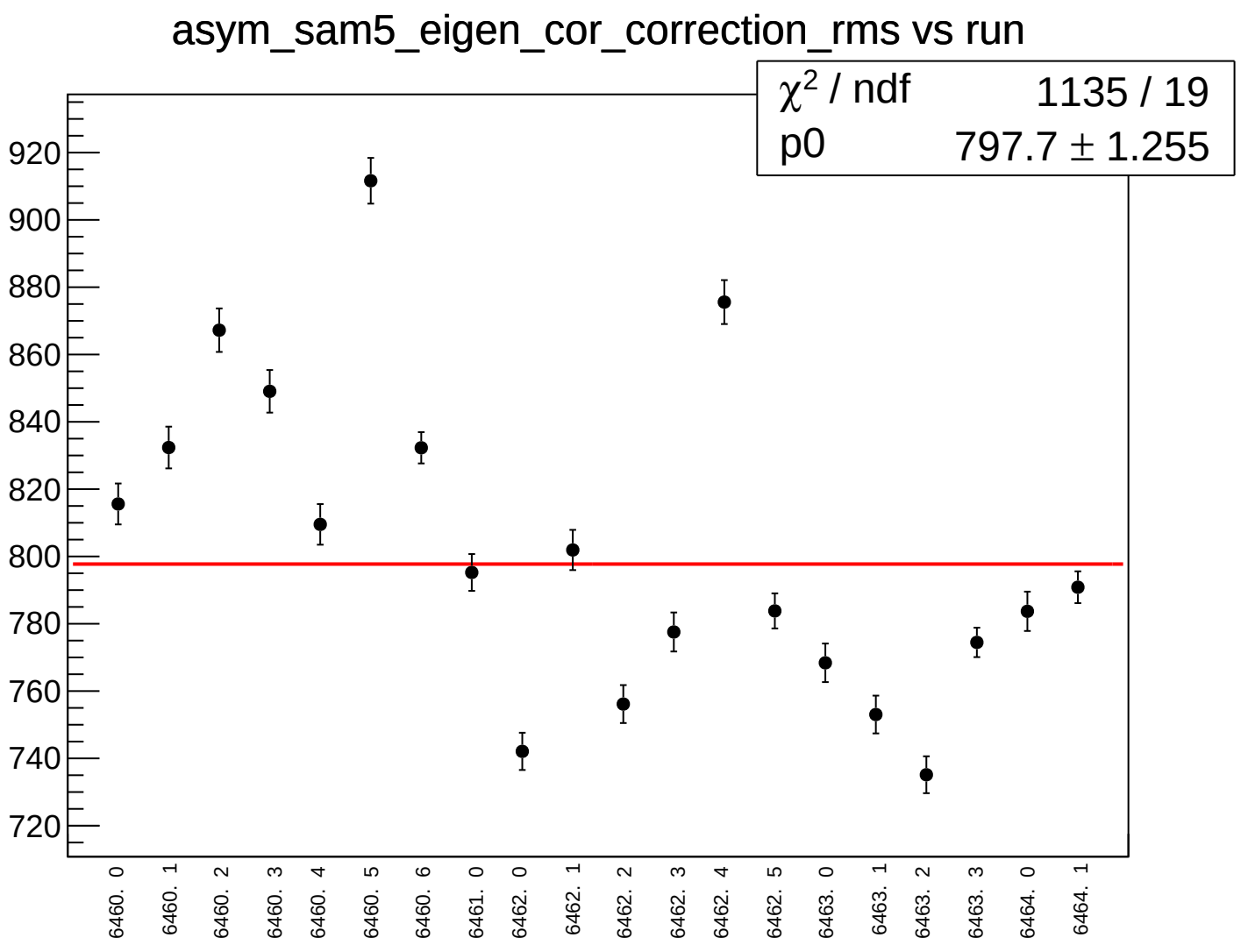

asym_sam5_cor_correction_rms vs run
χ² / ndf 1135 / 19
p0 797.7 ± 1.255
920
900
880
860
840
820
800
780
760
740
720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

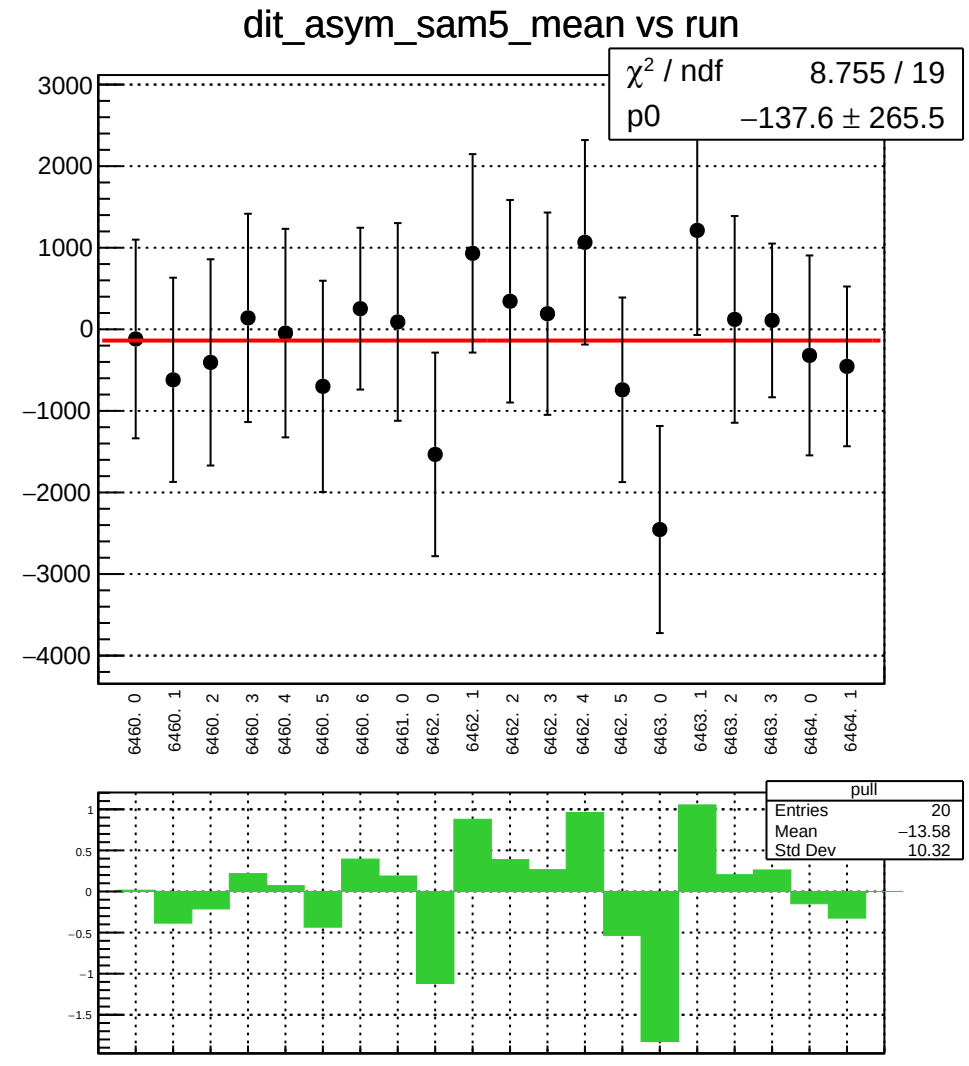

eigen_cor_asym_sam5_mean vs run
χ² / ndf 9.227 / 19
p0 −112 ± 259.2
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 161.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.003461
Std Dev 0.6792
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

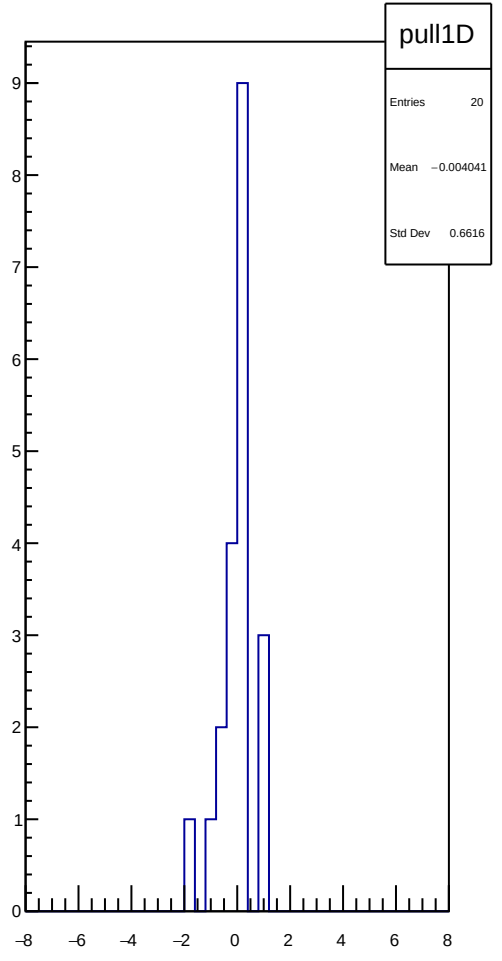

eigen_cor_asym_sam5_rms vs run
χ² / ndf 292.4 / 19
p0 116.6 ± 0.1833
124
122
120
118
116
114
112
110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

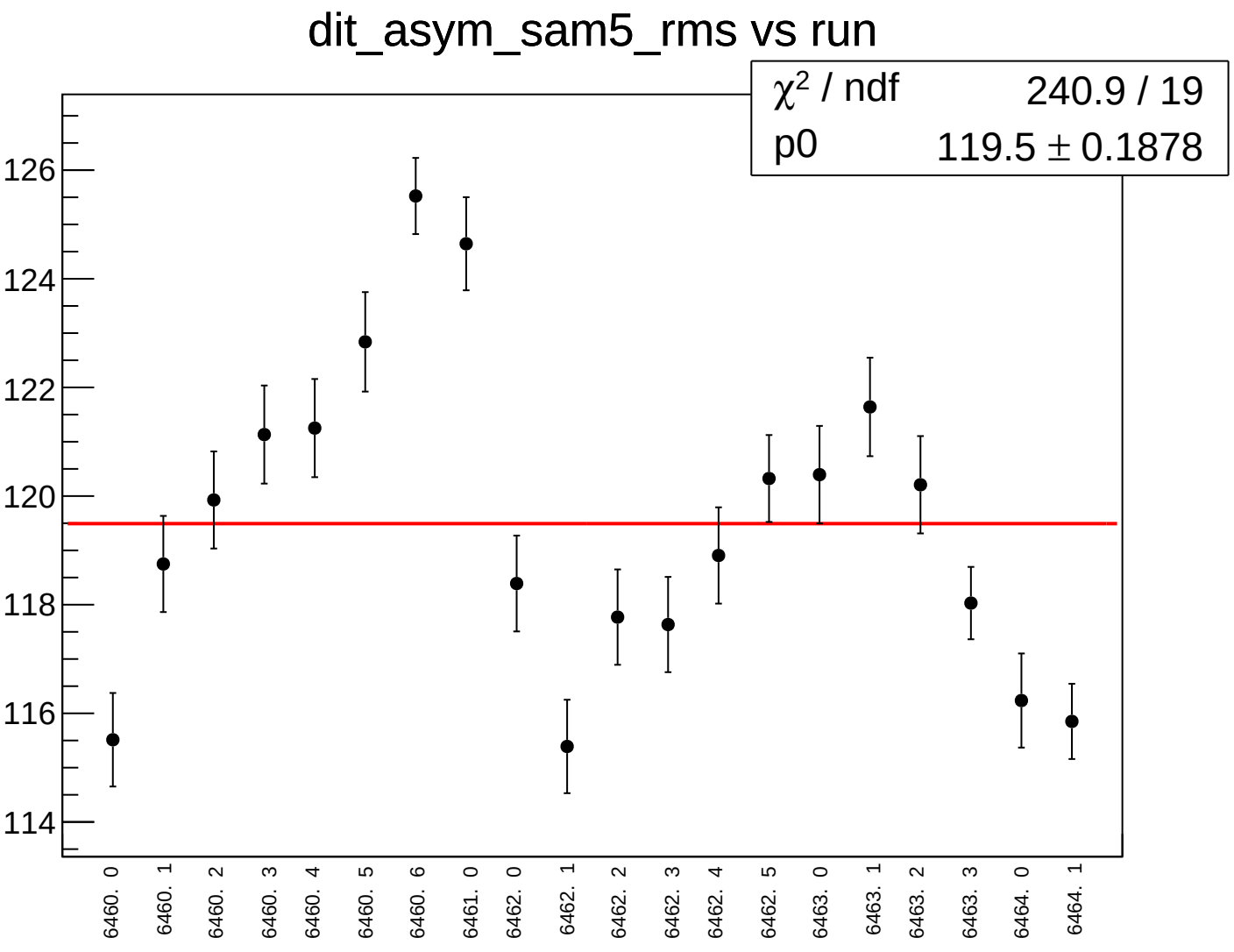

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 12.01 / 19
p0 −897.2 ± 1775
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.172
Std Dev 14.41
1.5
1
0.5
0
−0.5
−1
−1.5

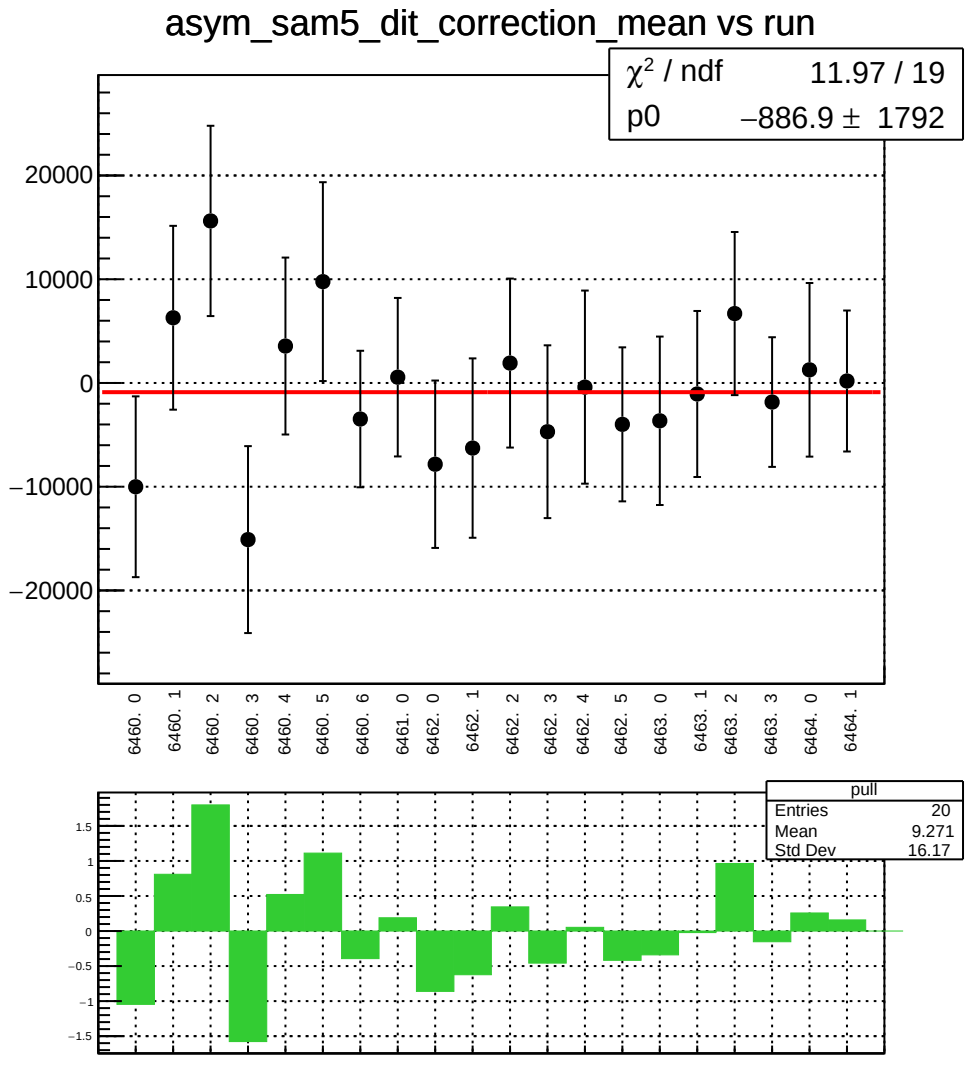

pull1D
Entries 20
Mean 0.01803
Std Dev 0.7748
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

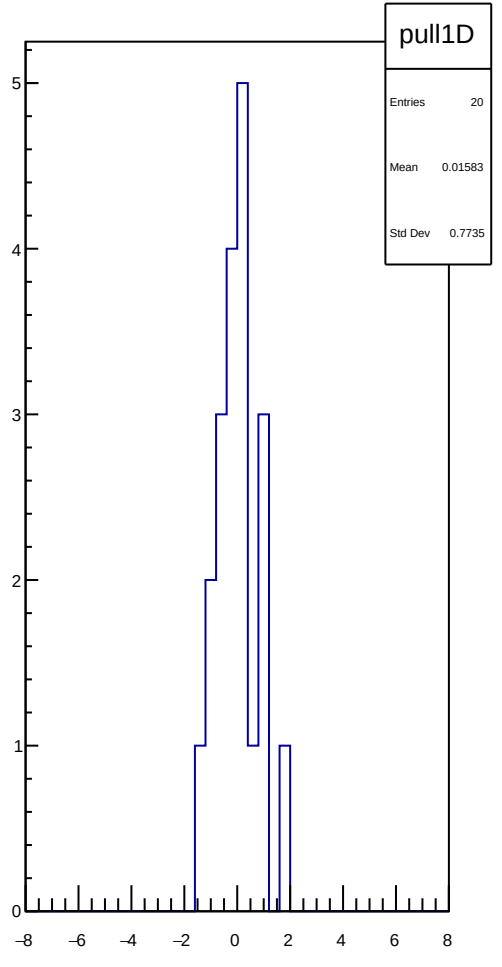

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1135 / 19
p0 797.7 ± 1.255
920
900
880
860
840
820
800
780
760
740
720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

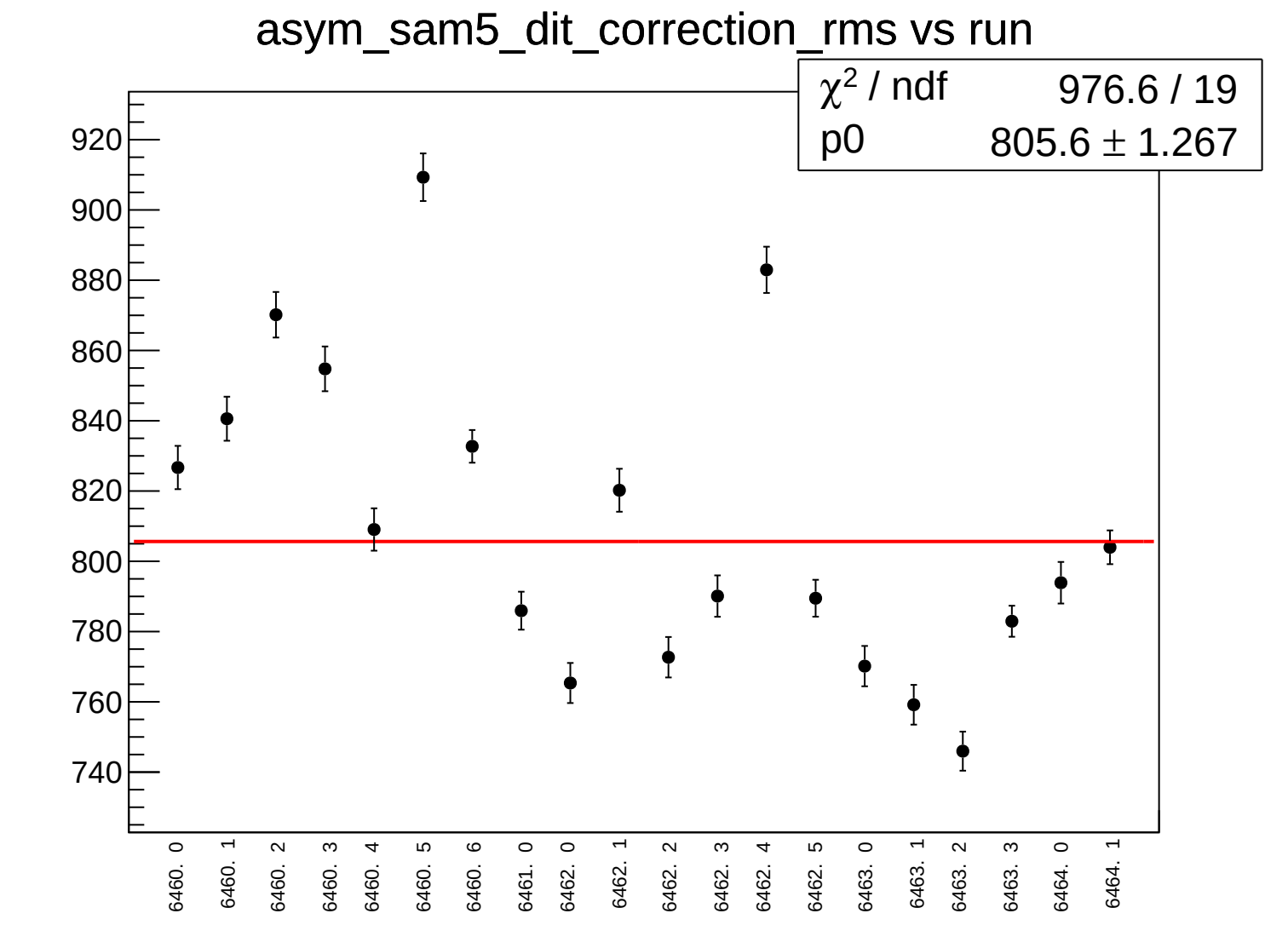

dit_asym_sam5_mean vs run
χ² / ndf 8.755 / 19
p0 −137.6 ± 265.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −13.58
Std Dev 10.32
1
0.5
0
−0.5
−1
−1.5

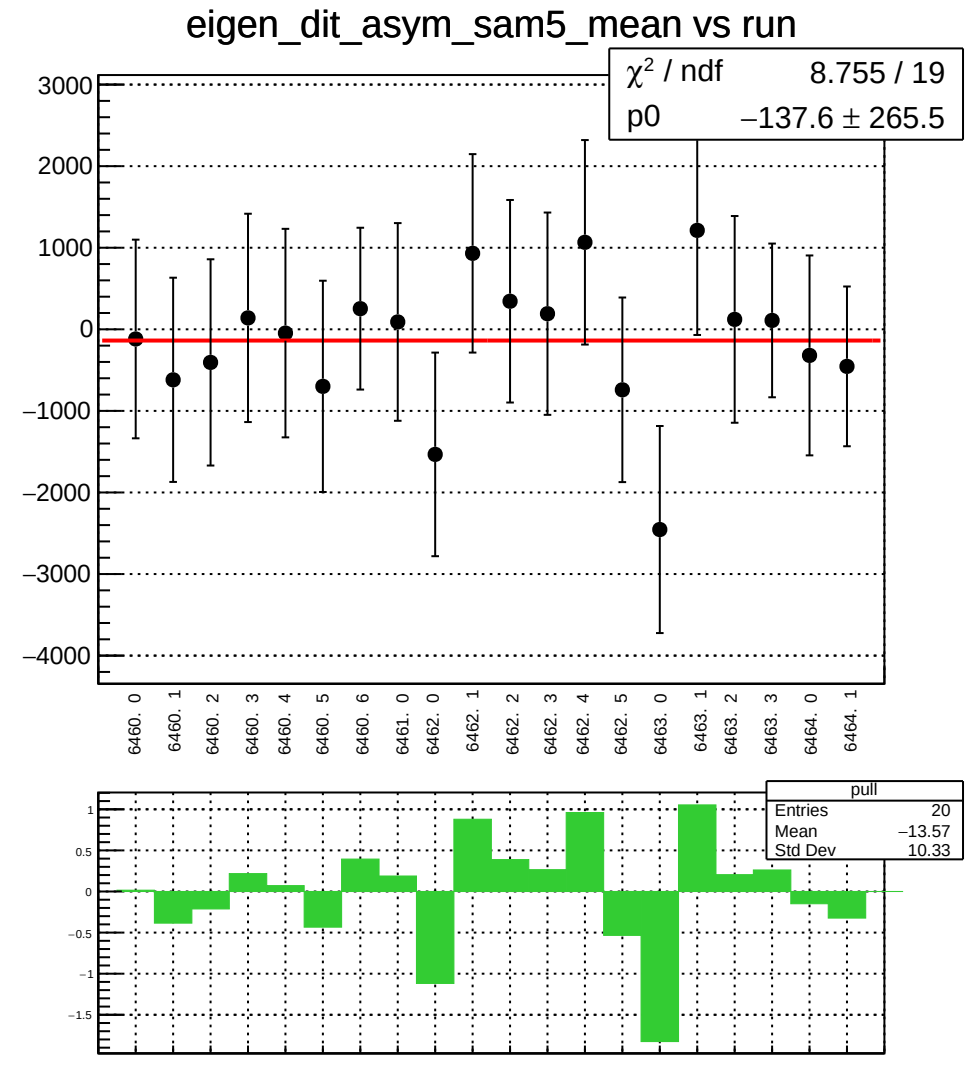

pull1D
Entries 20
Mean −0.004041
Std Dev 0.6616
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

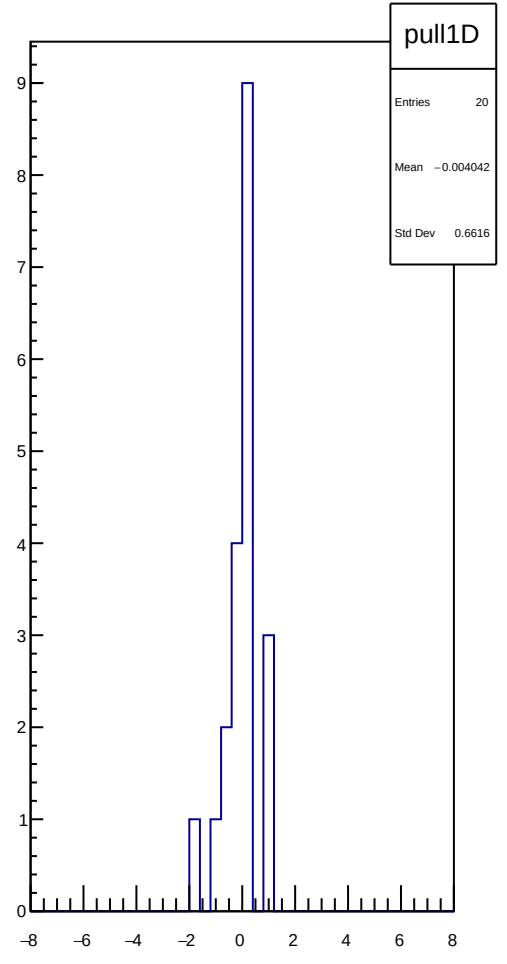

dit_asym_sam5_rms vs run
χ² / ndf 240.9 / 19
p0 119.5 ± 0.1878
126
124
122
120
118
116
114
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

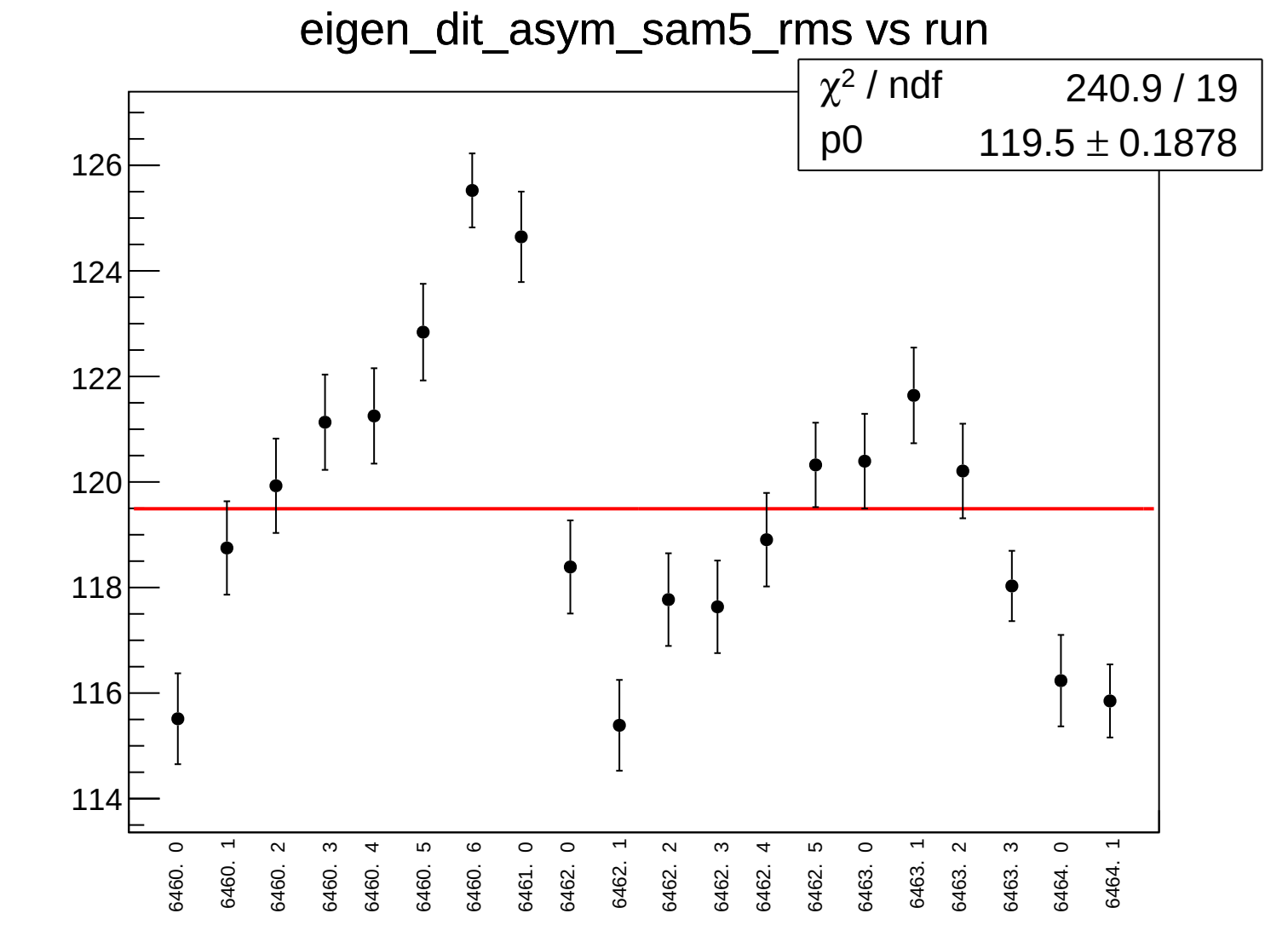

asym_sam5_dit_correction_mean vs run
χ² / ndf 11.97 / 19
p0 −886.9 ± 1792
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.271
Std Dev 16.17
1.5
1
0.5
0
−0.5
−1
−1.5

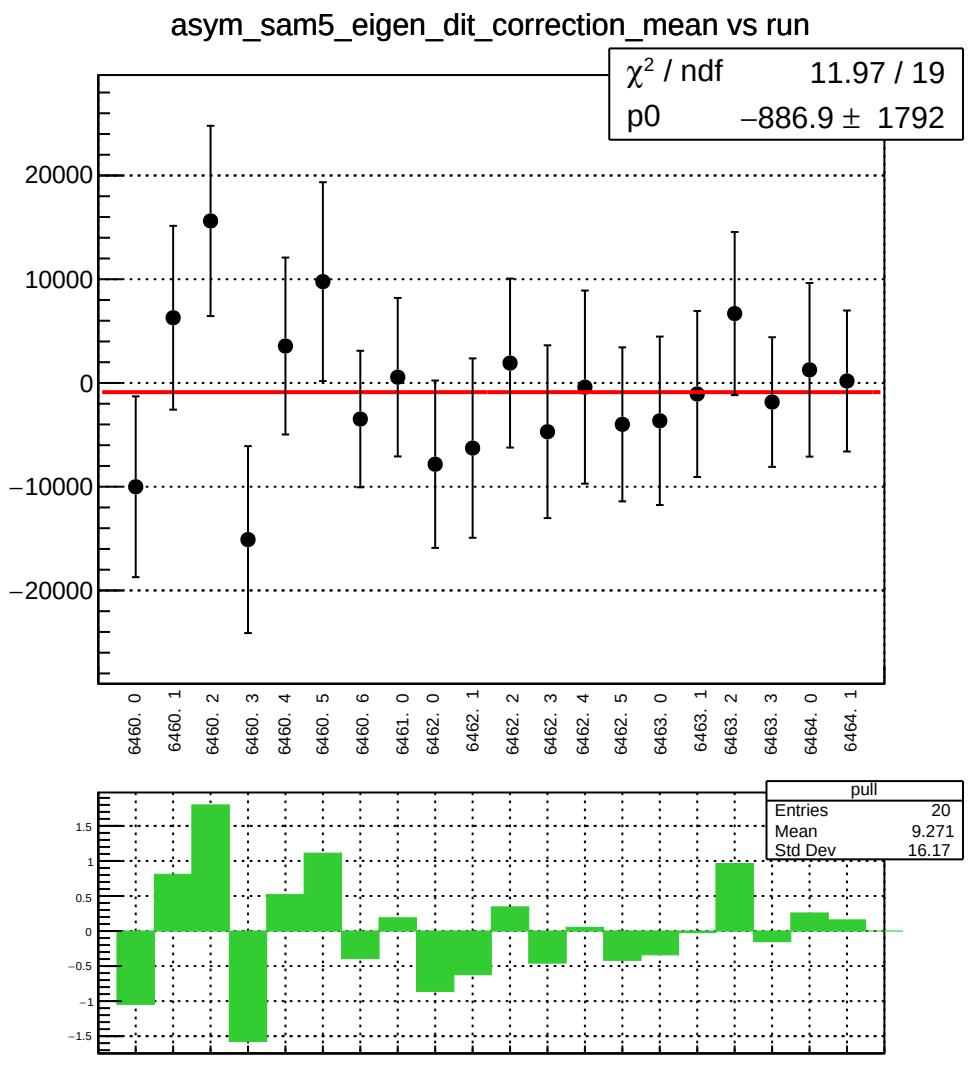

pull1D
Entries 20
Mean 0.01583
Std Dev 0.7735
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

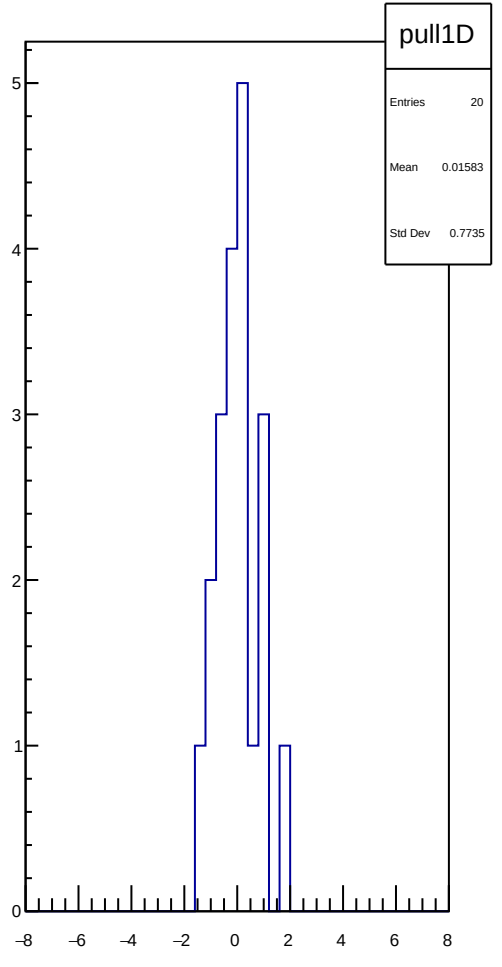

asym_sam5_dit_correction_rms vs run
χ^2 / ndf 976.6 / 19
p0 805.6 ± 1.267
920
900
880
860
840
820
800
780
760
740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

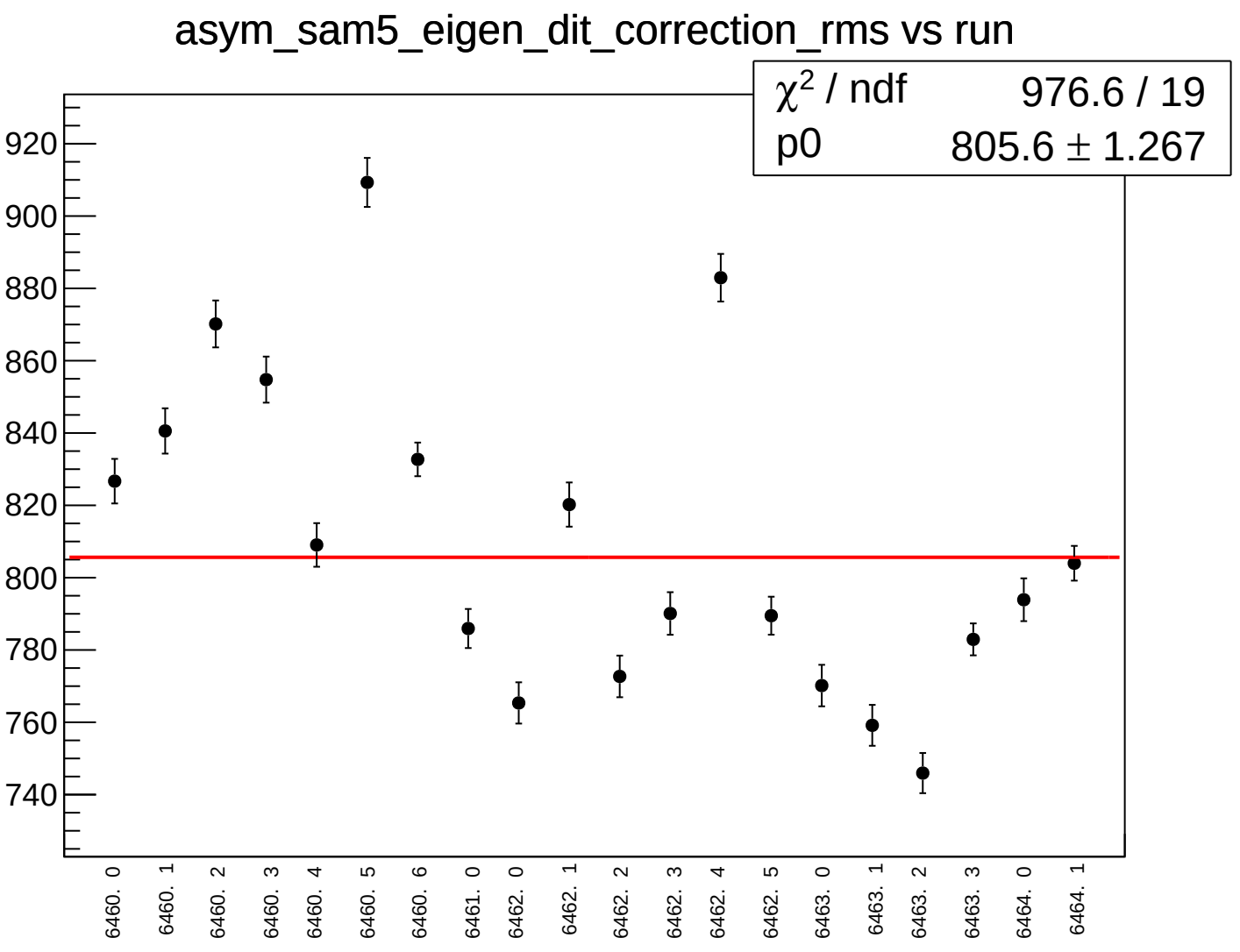

eigen_dit_asym_sam5_mean vs run
χ² / ndf 8.755 / 19
p0 −137.6 ± 265.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −13.57
Std Dev 10.33
1
0.5
0
−0.5
−1
−1.5

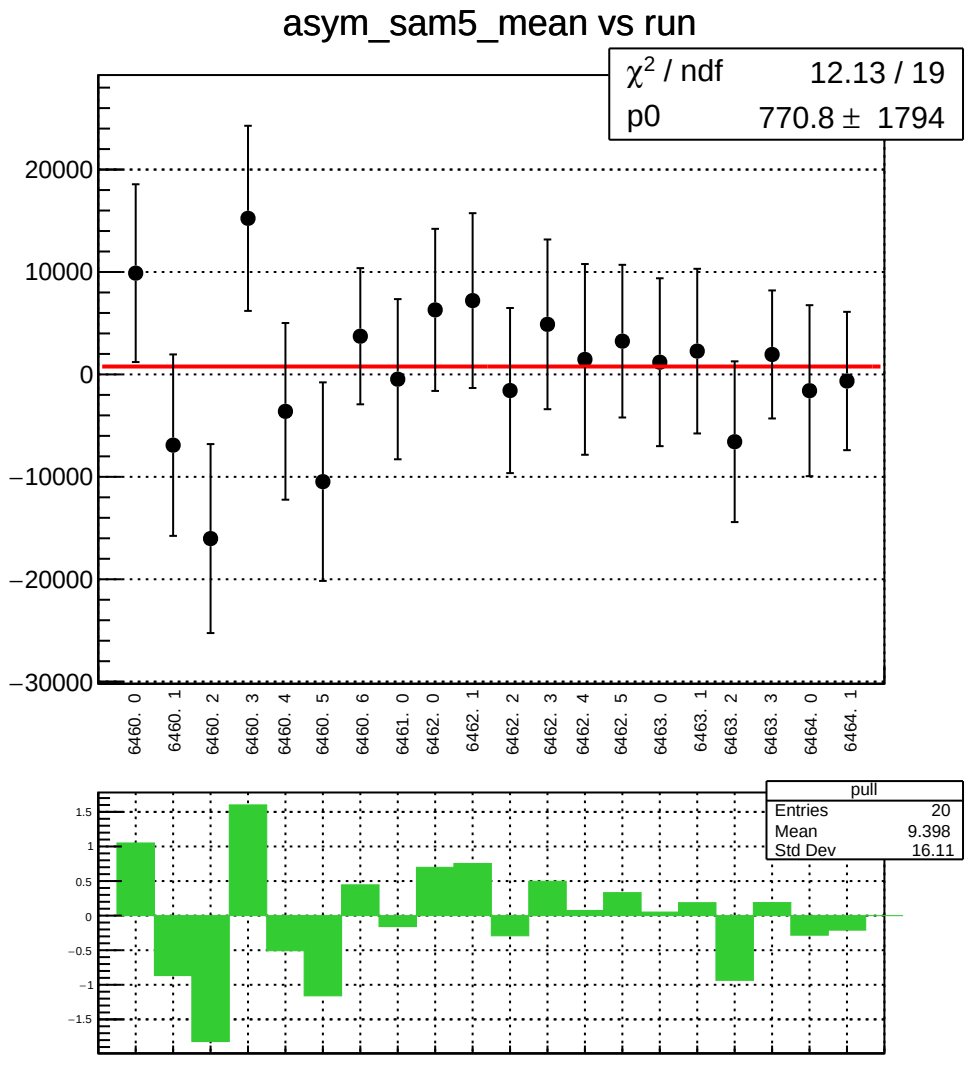

pull1D
Entries 20
Mean −0.004042
Std Dev 0.6616
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

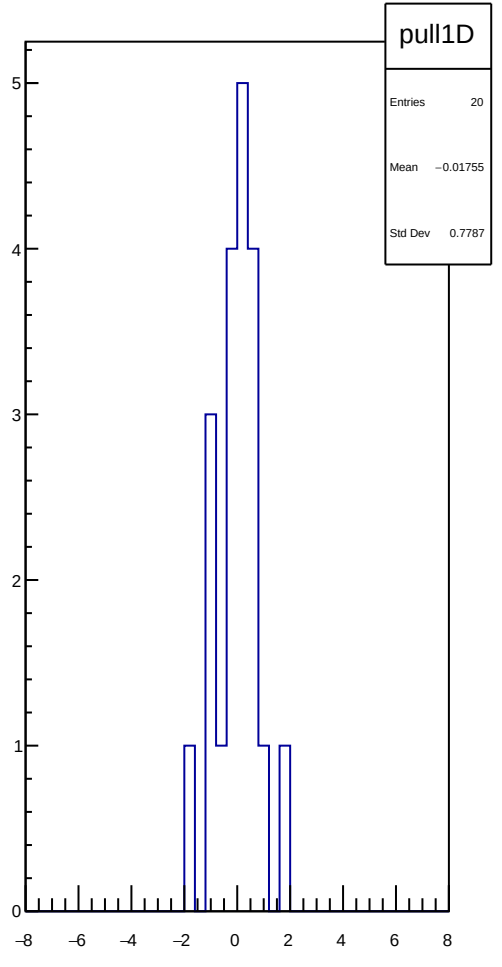

eigen_dit_asym_sam5_rms vs run
χ² / ndf 240.9 / 19
p0 119.5 ± 0.1878
126
124
122
120
118
116
114
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

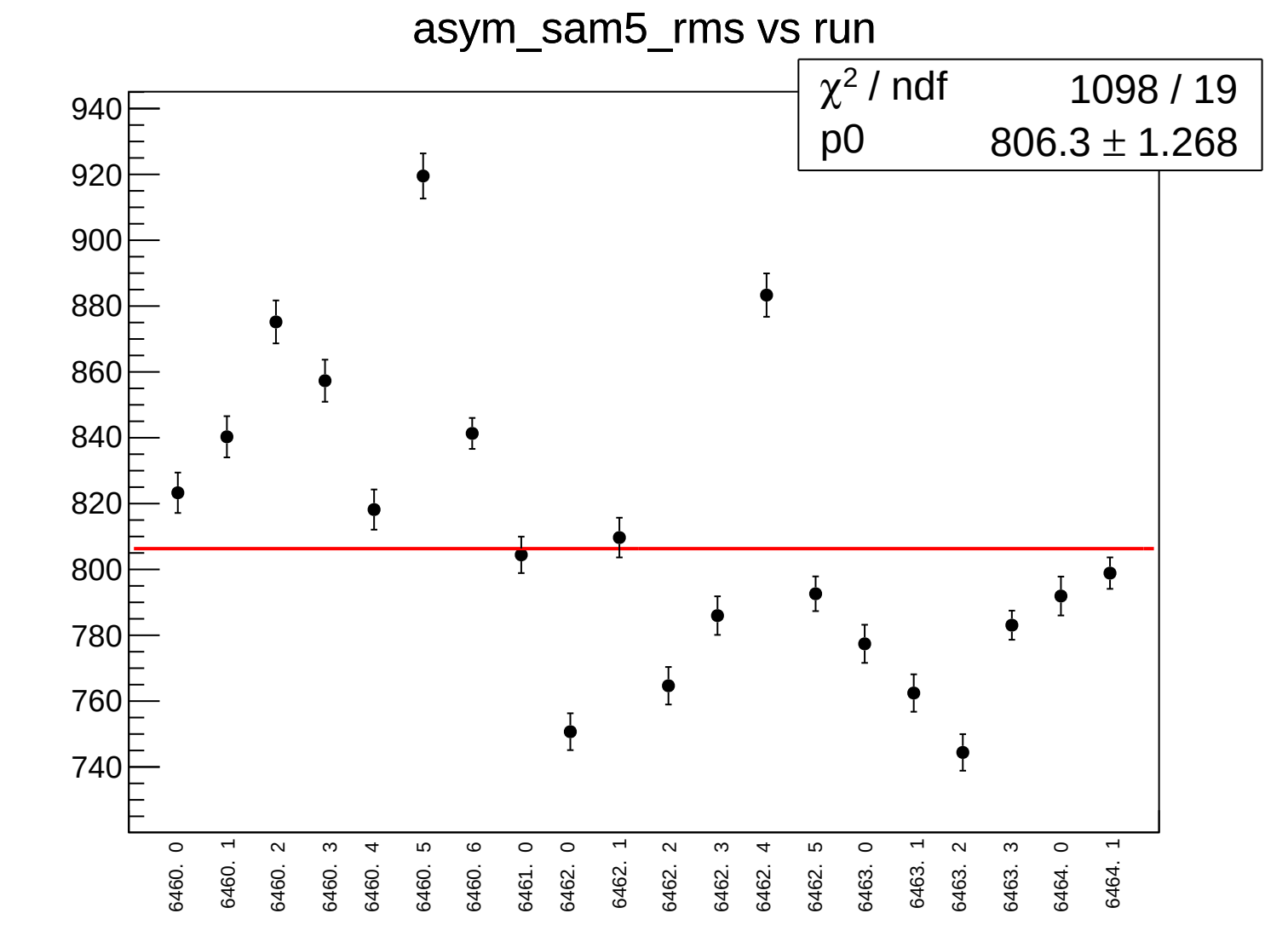

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 11.97 / 19
p0 −886.9 ± 1792
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.271
Std Dev 16.17
1.5
1
0.5
0
−0.5
−1
−1.5

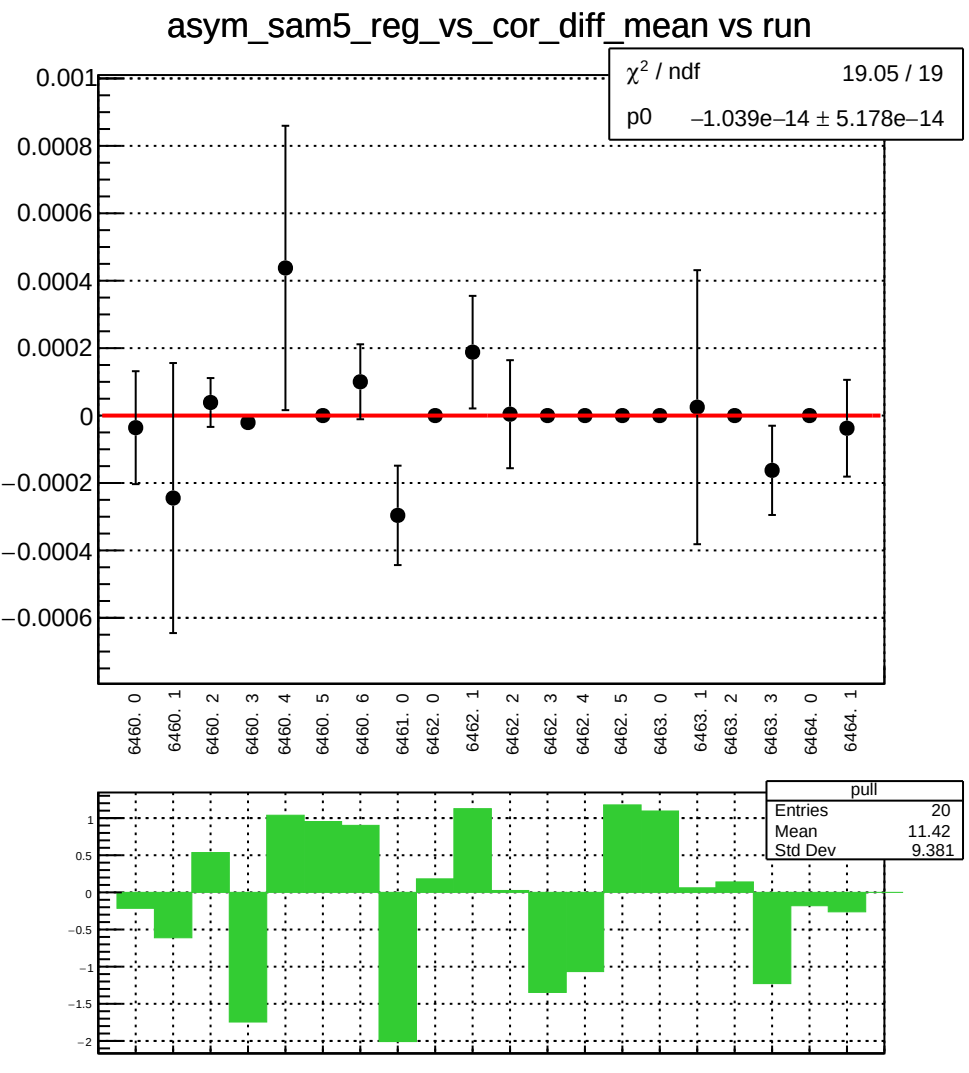

pull1D
Entries 20
Mean 0.01583
Std Dev 0.7735
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

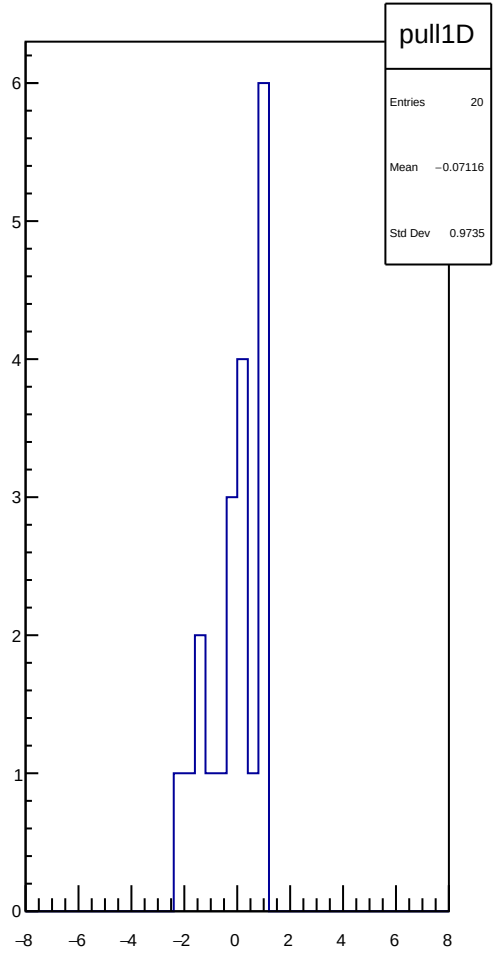

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 976.6 / 19
p0 805.6 ± 1.267
920
900
880
860
840
820
800
780
760
740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

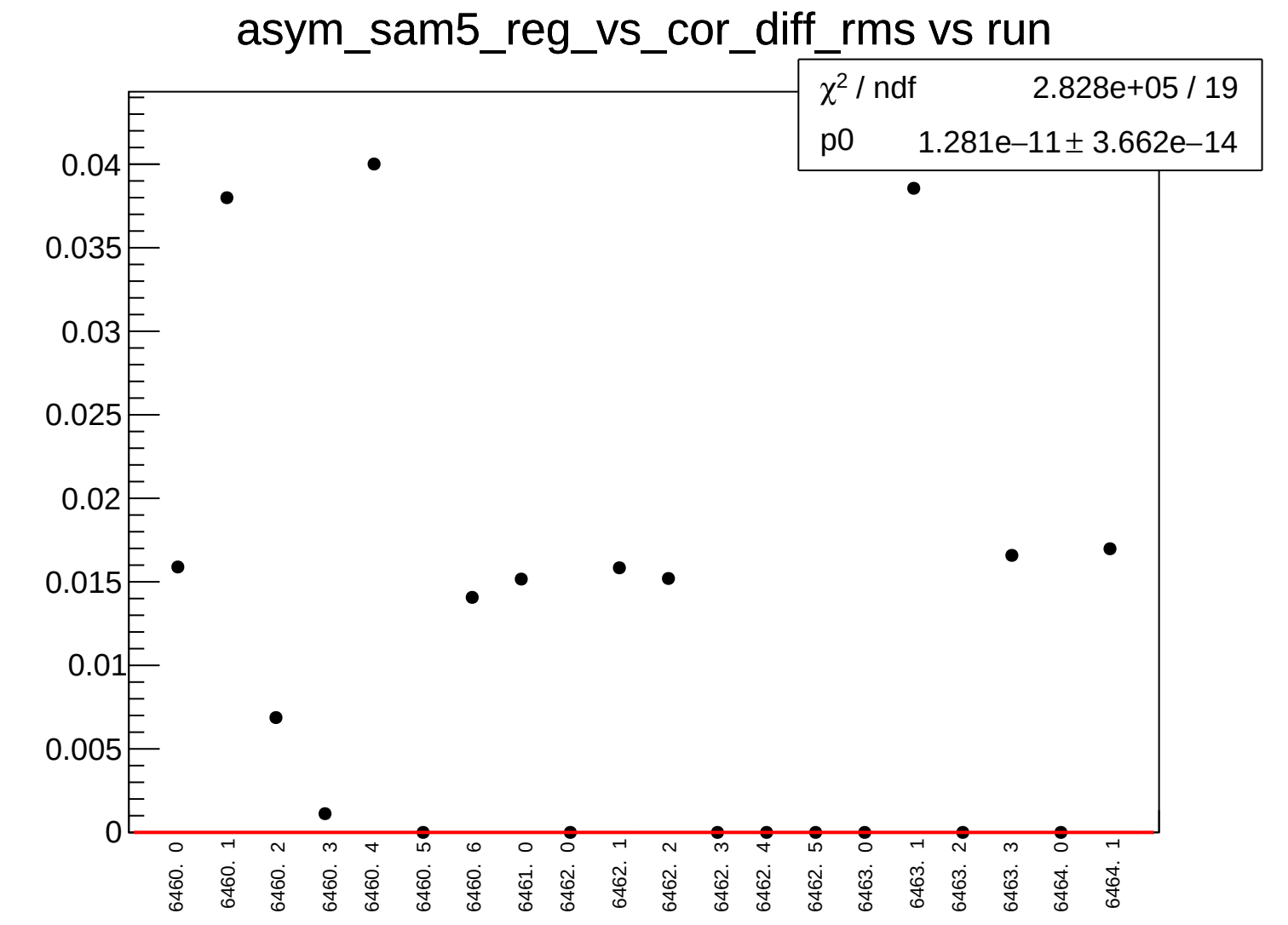

asym_sam5_mean vs run
χ² / ndf 12.13 / 19
p0 770.8 ± 1794
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9.398
Std Dev 16.11
1.5
1
0.5
0
−0.5
−1
−1.5

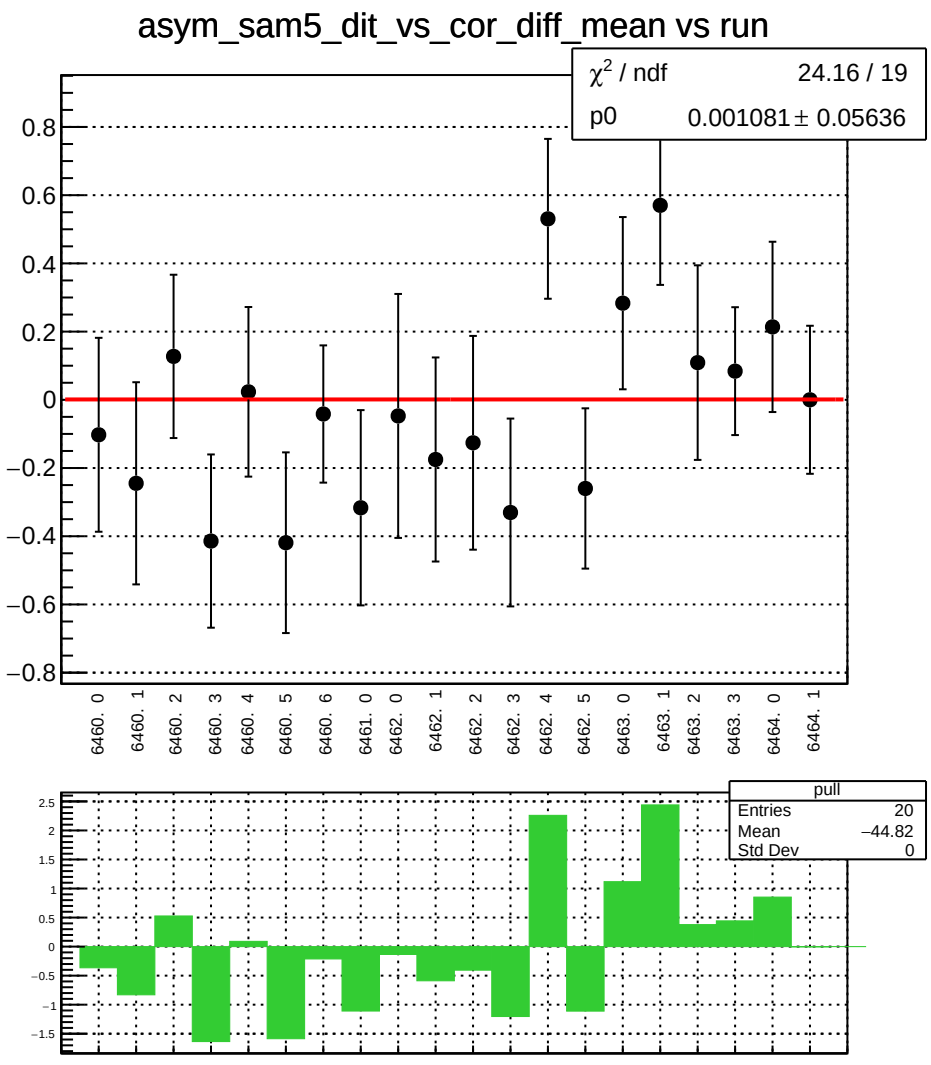

pull1D
Entries 20
Mean −0.01755
Std Dev 0.7787
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

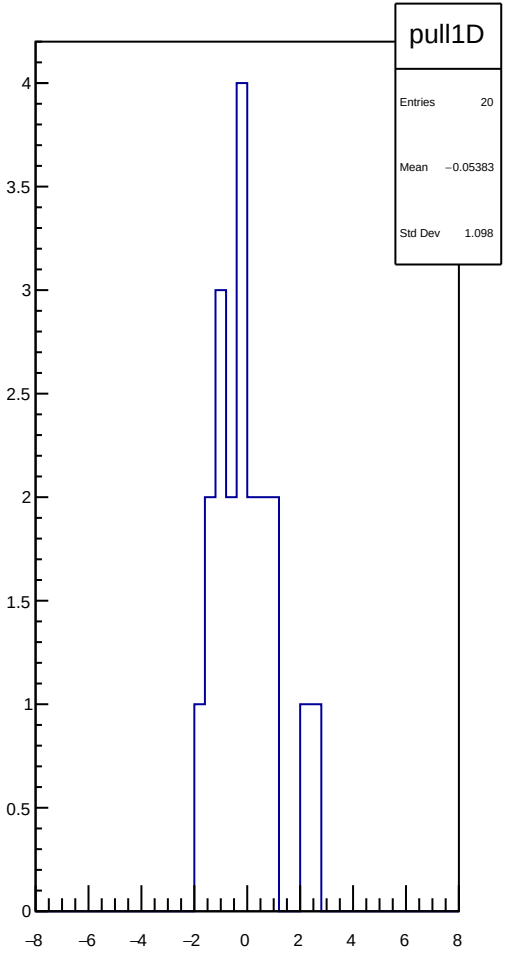

asym_sam5_rms vs run
χ² / ndf 1098 / 19
p0 806.3 ± 1.268
940
920
900
880
860
840
820
800
780
760
740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

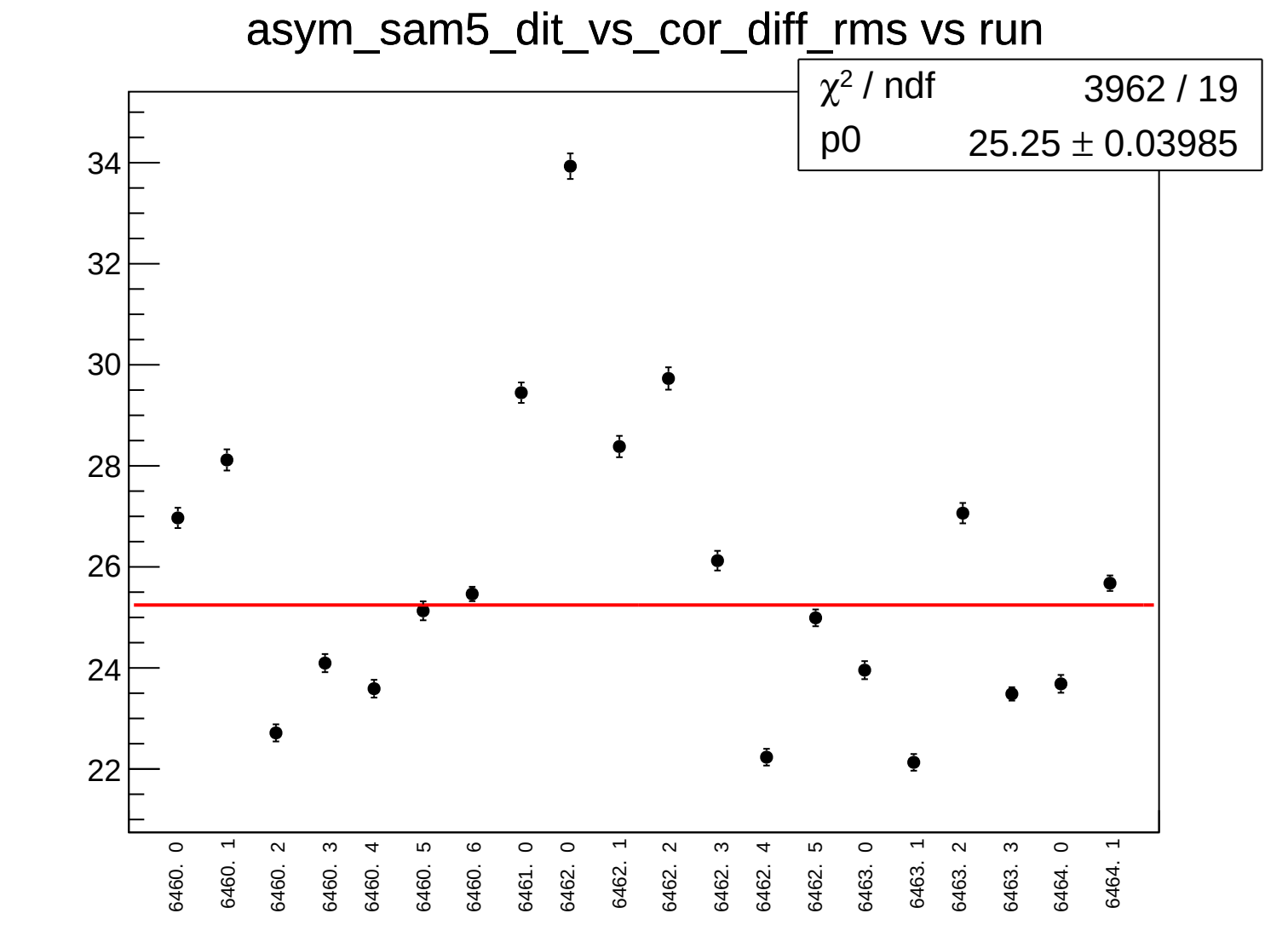

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 19.05 / 19
p0 −1.039e−14 ± 5.178e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 11.42
Std Dev 9.381
1
0.5
0
−0.5
−1
−1.5
−2

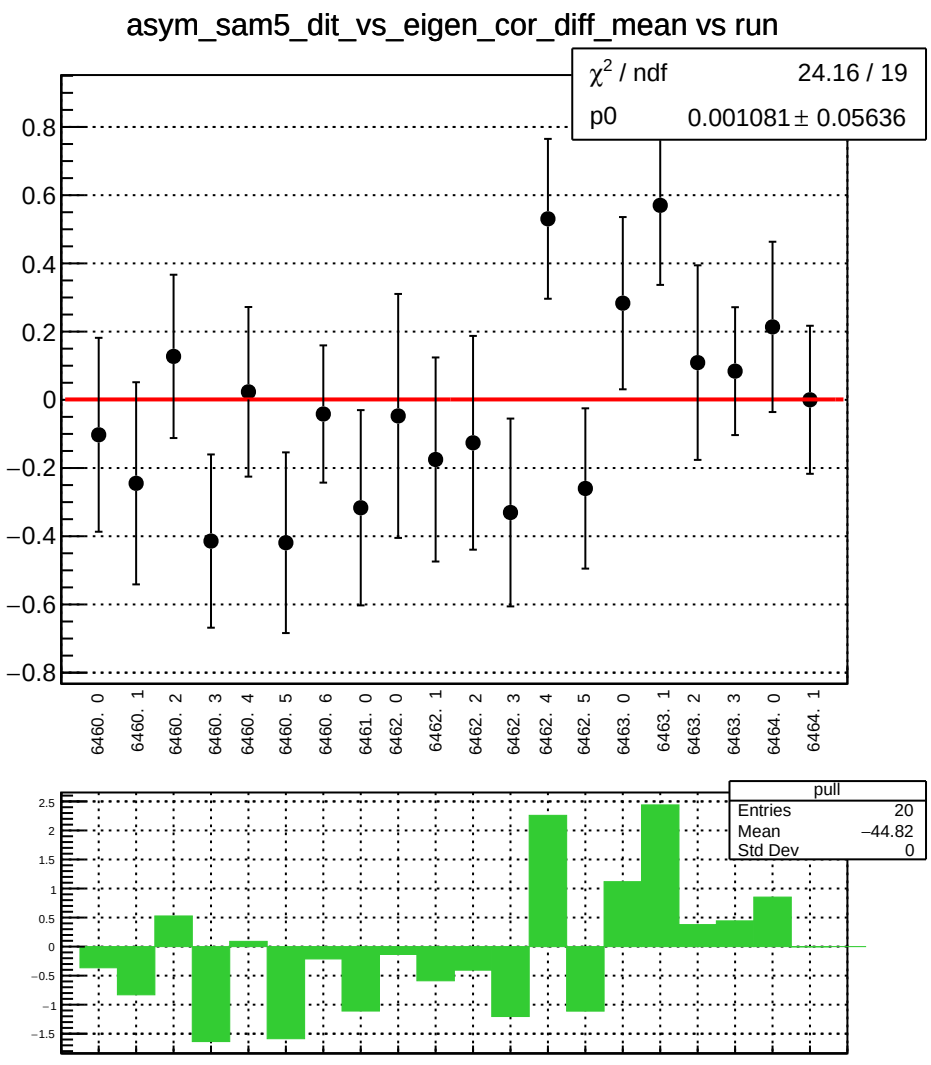

pull1D
Entries 20
Mean −0.07116
Std Dev 0.9735
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

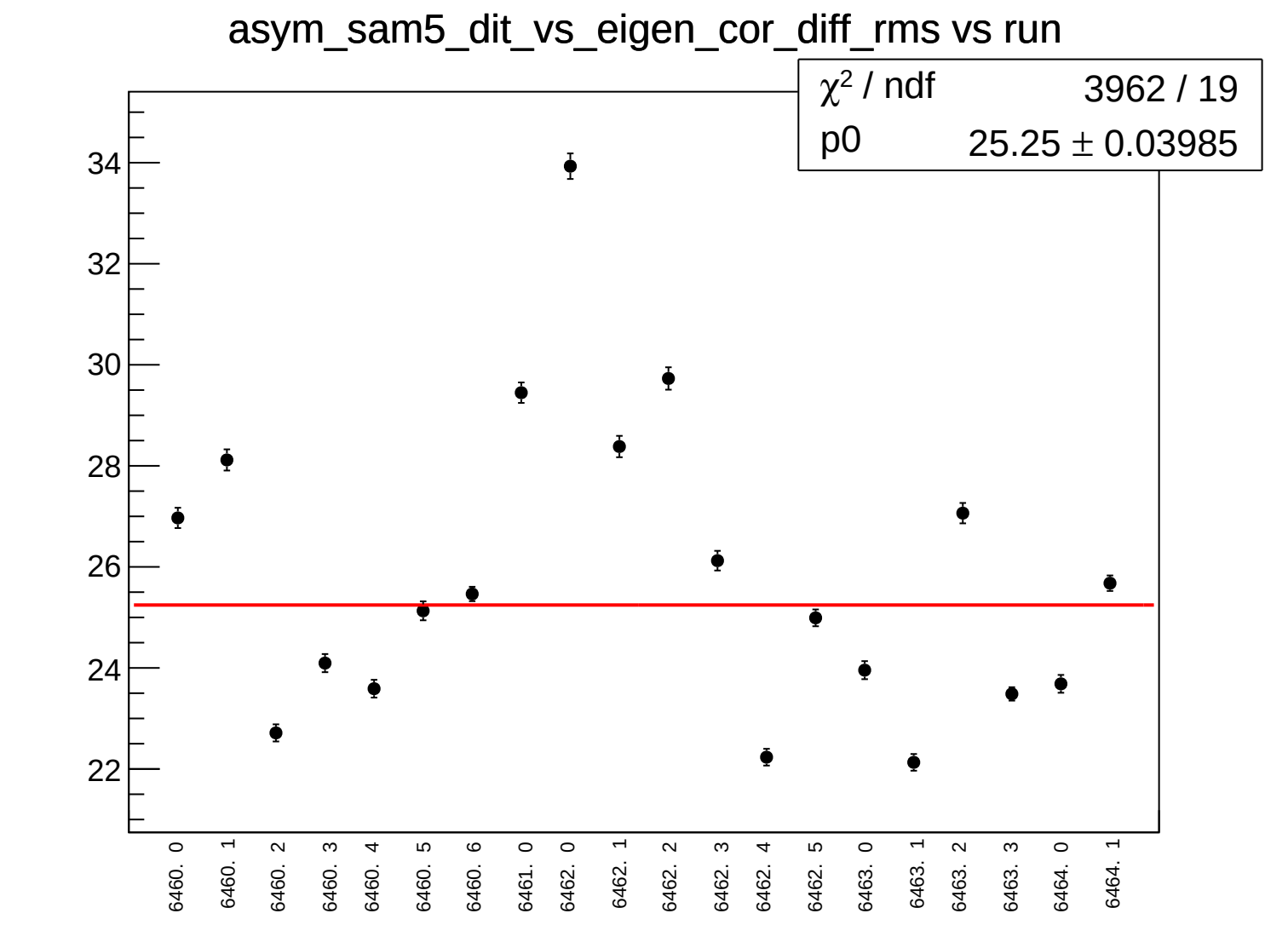

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 2.828e+05 / 19
p0 1.281e−11 ± 3.662e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

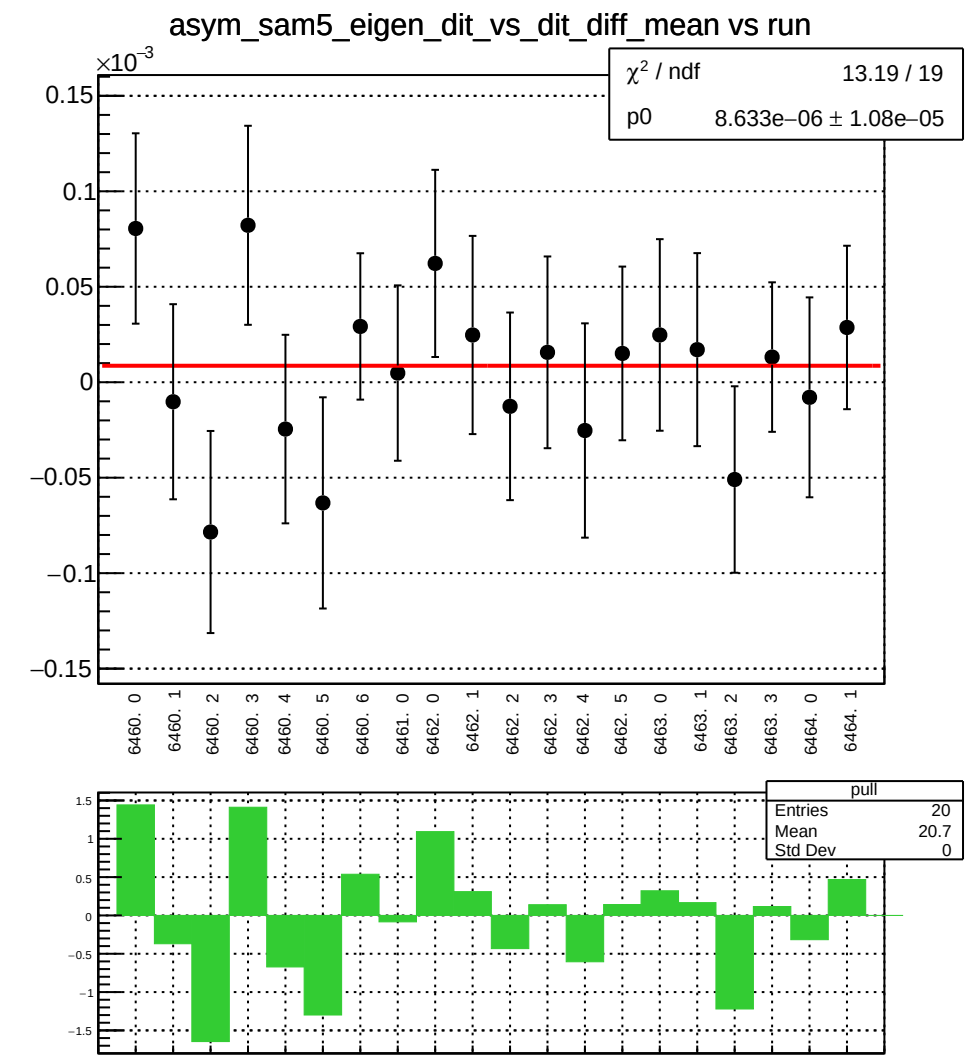

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 24.16 / 19
p0 0.001081 ± 0.05636
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −44.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

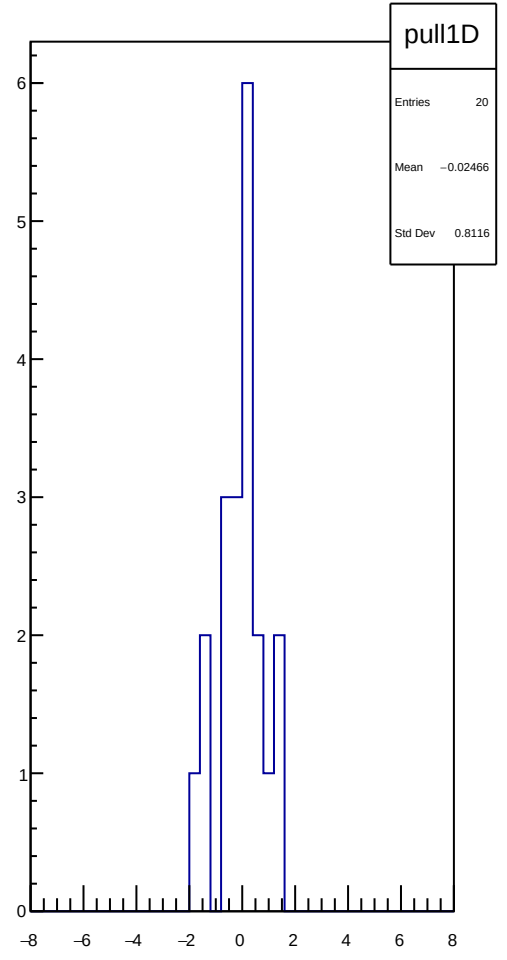

pull1D
Entries 20
Mean −0.05383
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

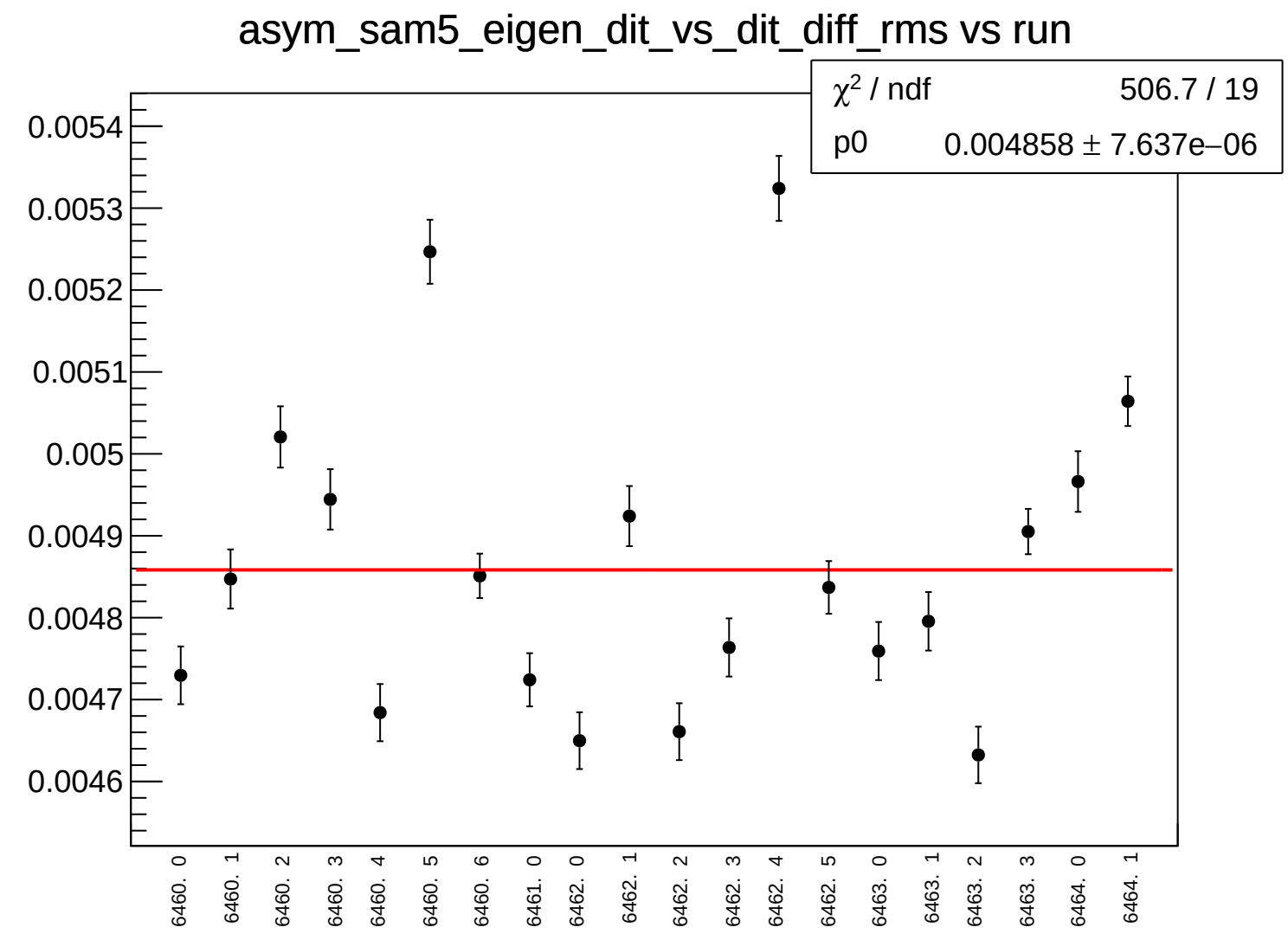

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 3962 / 19
p0 25.25 ± 0.03985
34
32
30
28
26
24
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

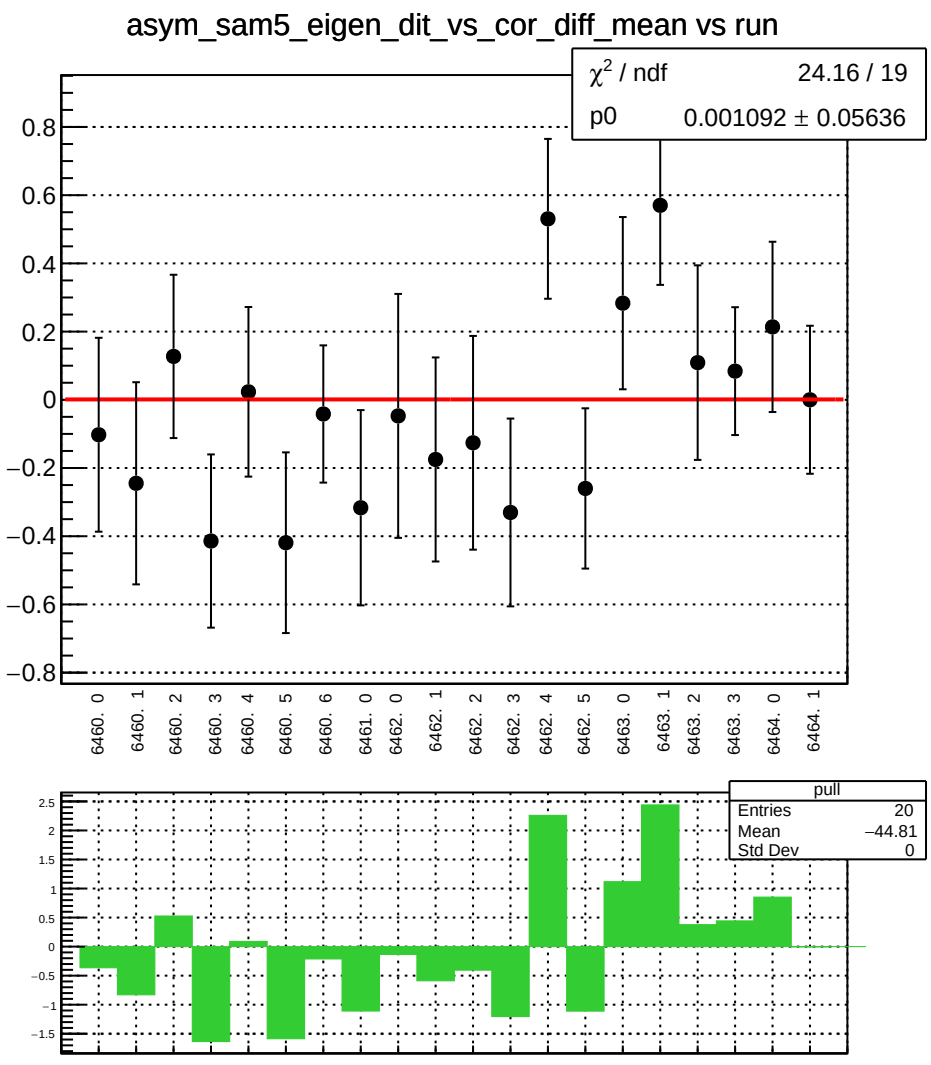

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.16 / 19
p0 0.001081 ± 0.05636
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −44.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.05383
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

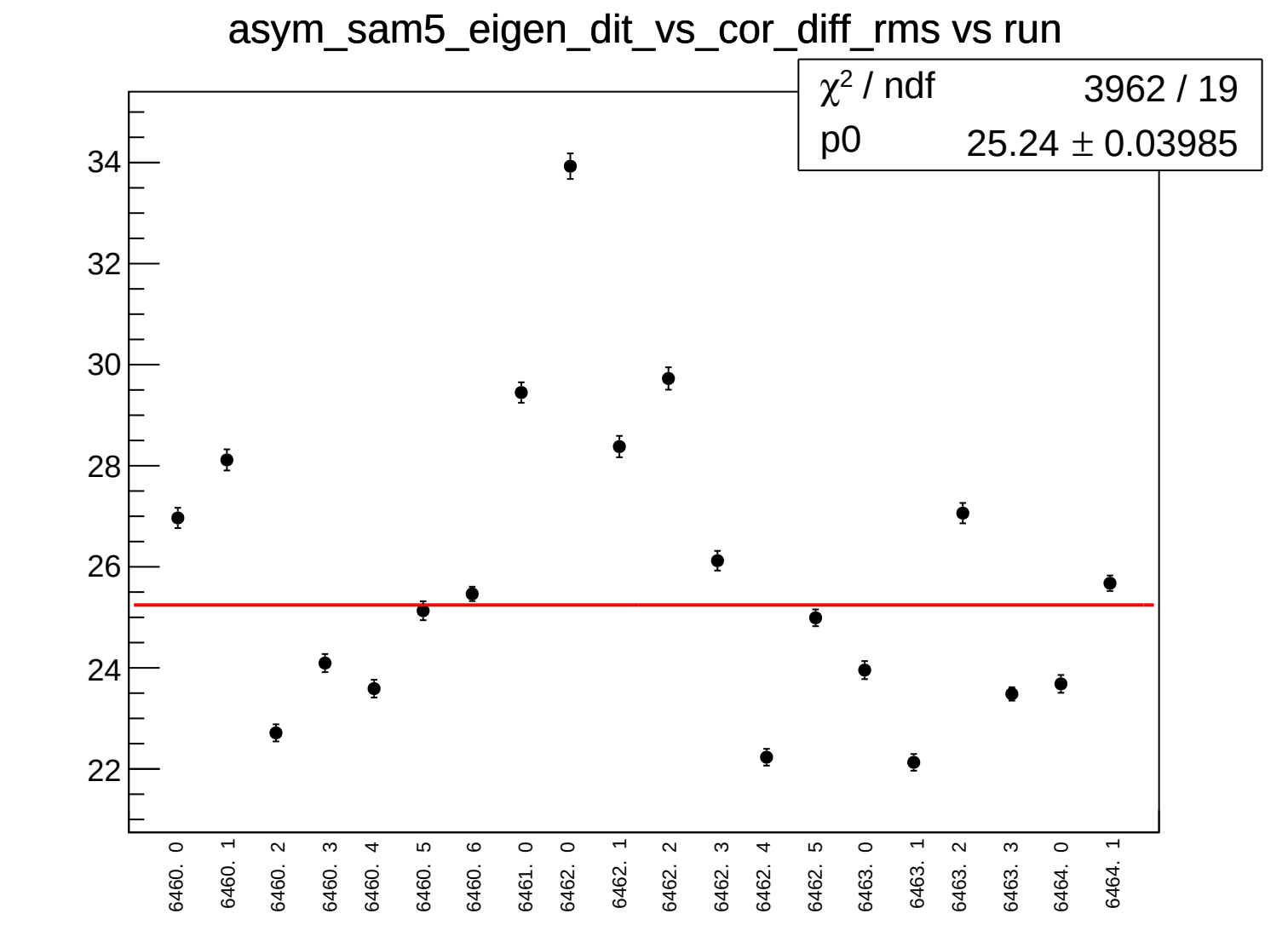

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3962 / 19
p0 25.25 ± 0.03985
34
32
30
28
26
24
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

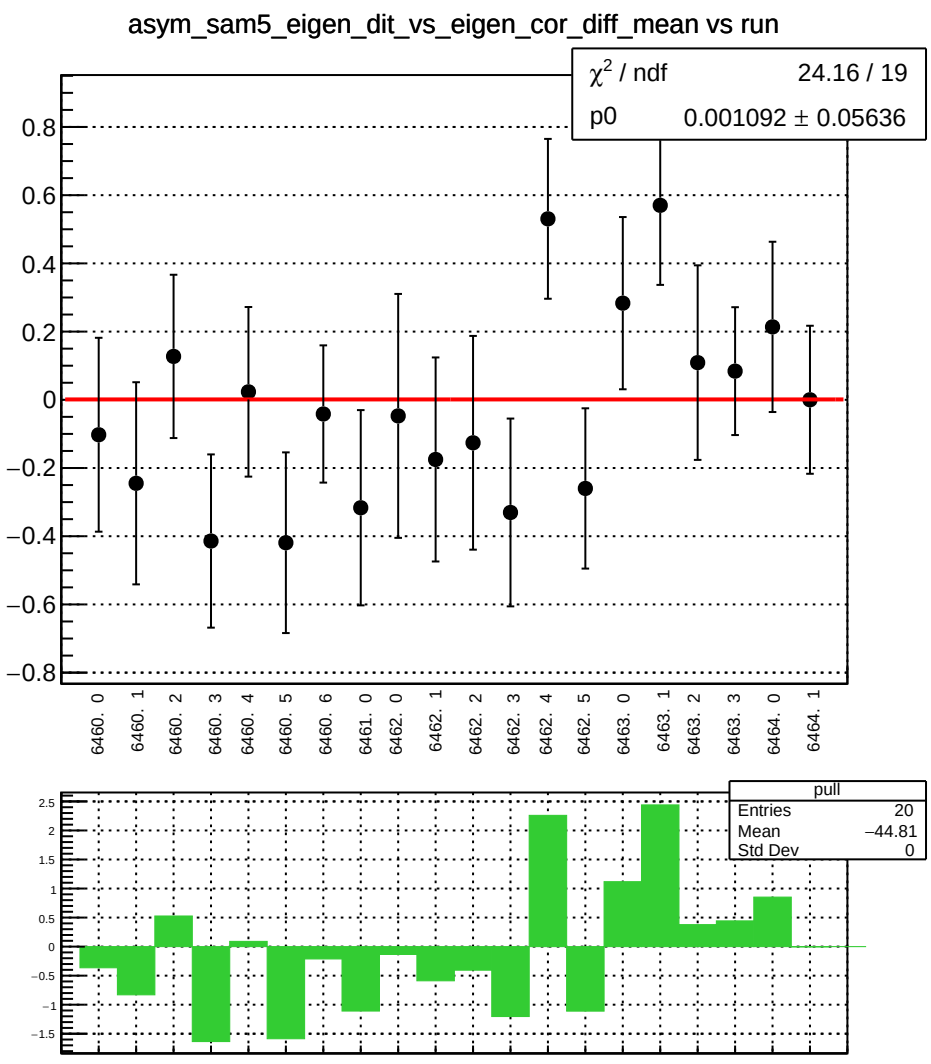

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 13.19 / 19
p0 8.633e−06 ± 1.08e−05
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 20.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

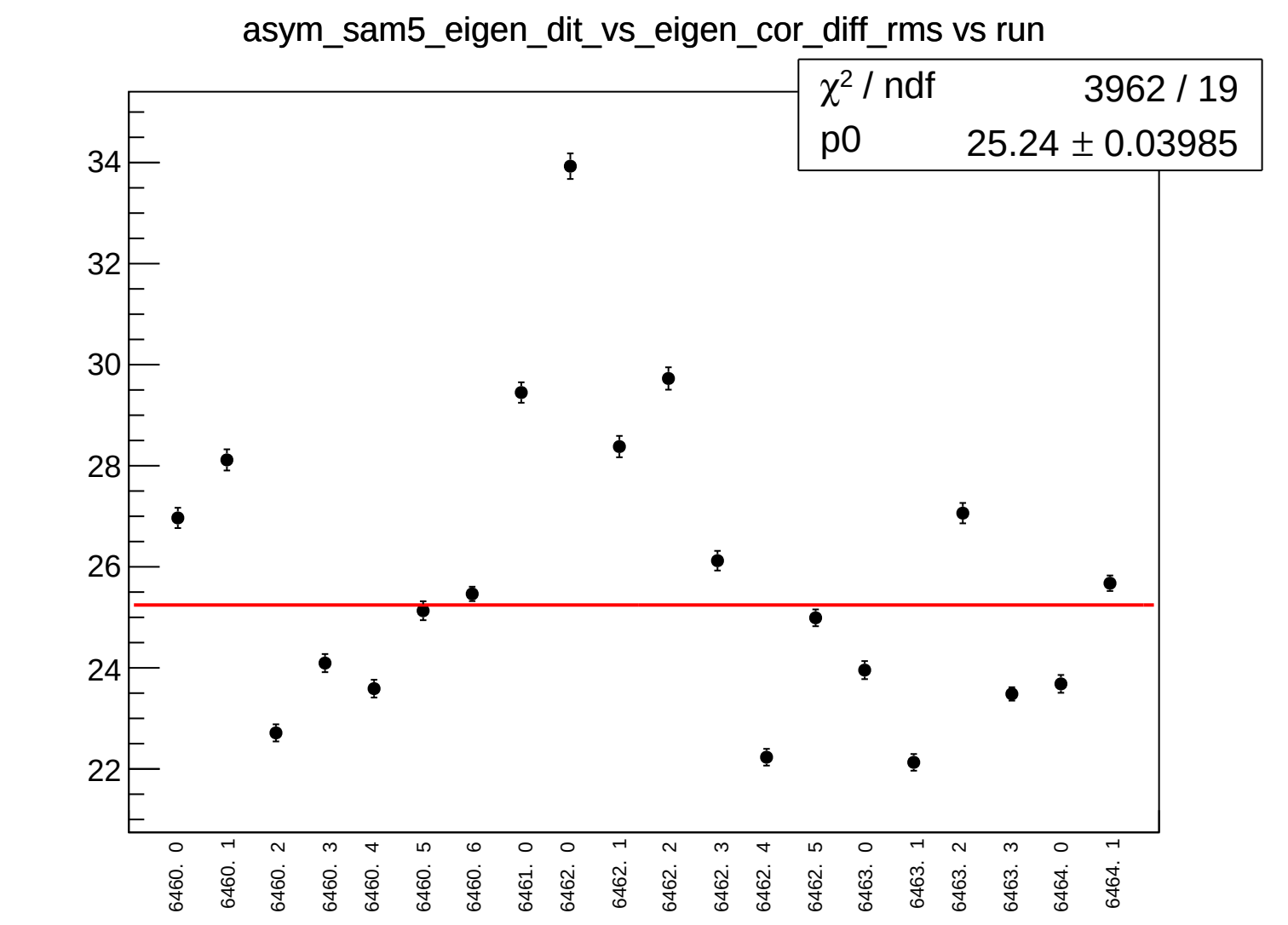

pull1D
Entries 20
Mean −0.02466
Std Dev 0.8116
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

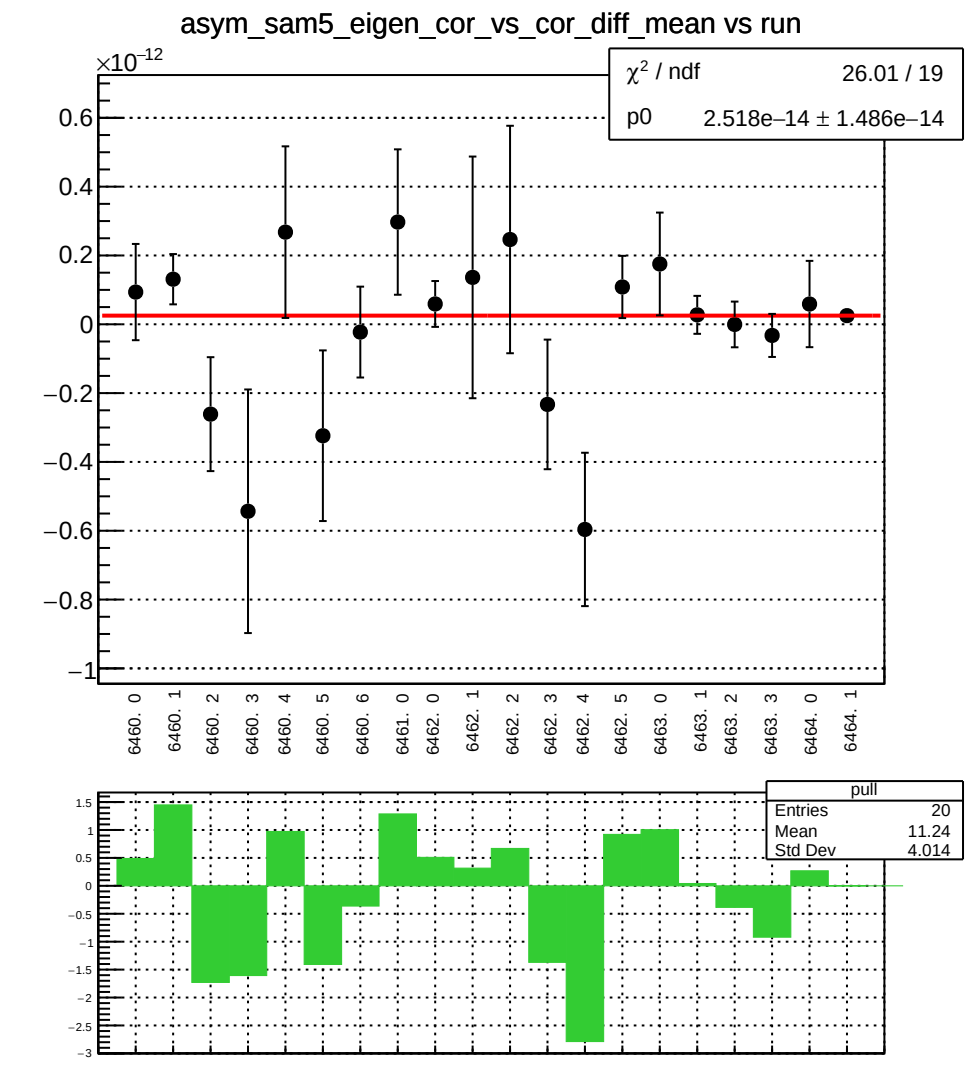

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 506.7 / 19
p0 0.004858 ± 7.637e−06
0.0054
0.0053
0.0052
0.0051
0.005
0.0049
0.0048
0.0047
0.0046
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

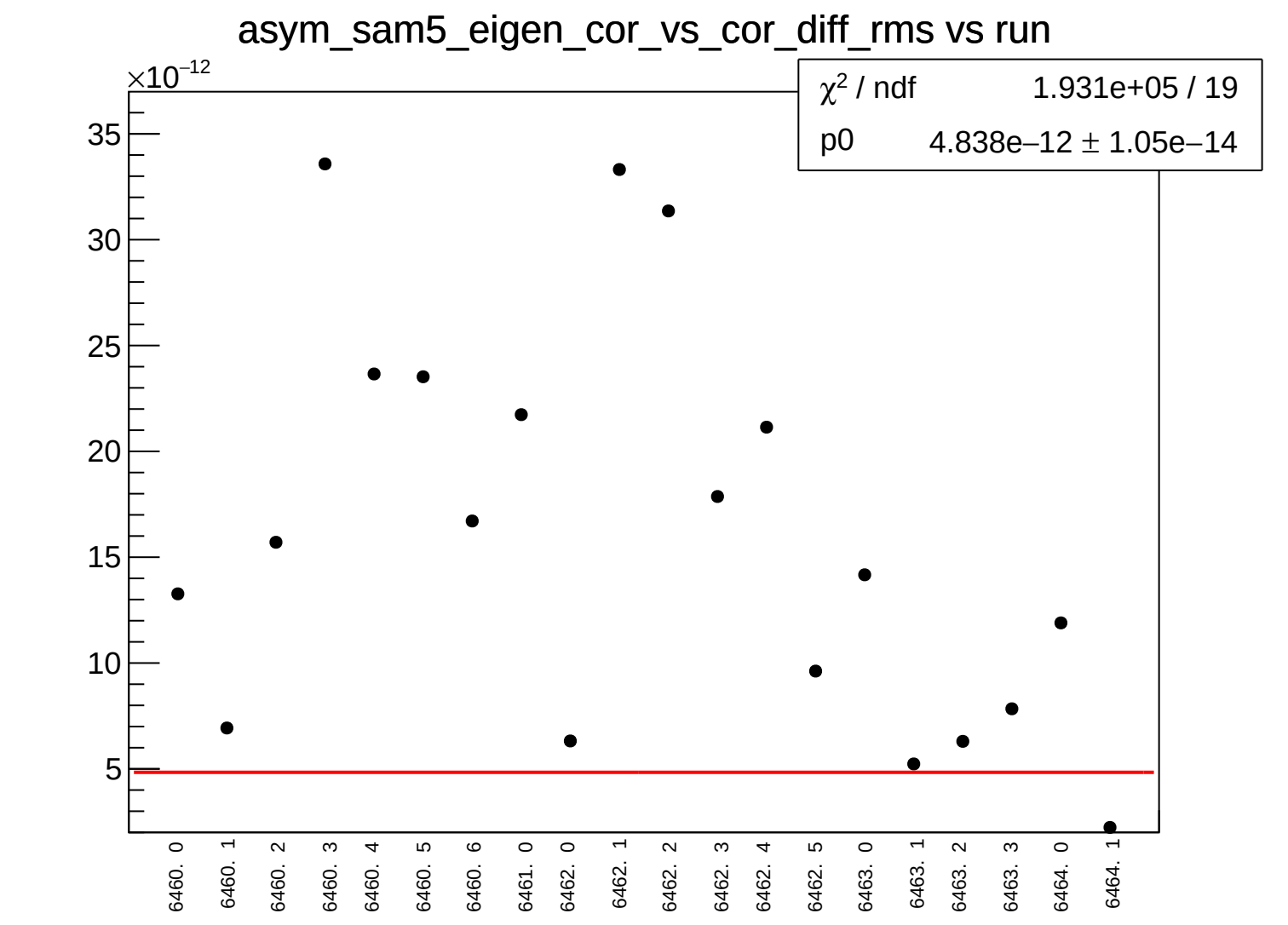

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.16 / 19
p0 0.001092 ± 0.05636
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −44.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.05384
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

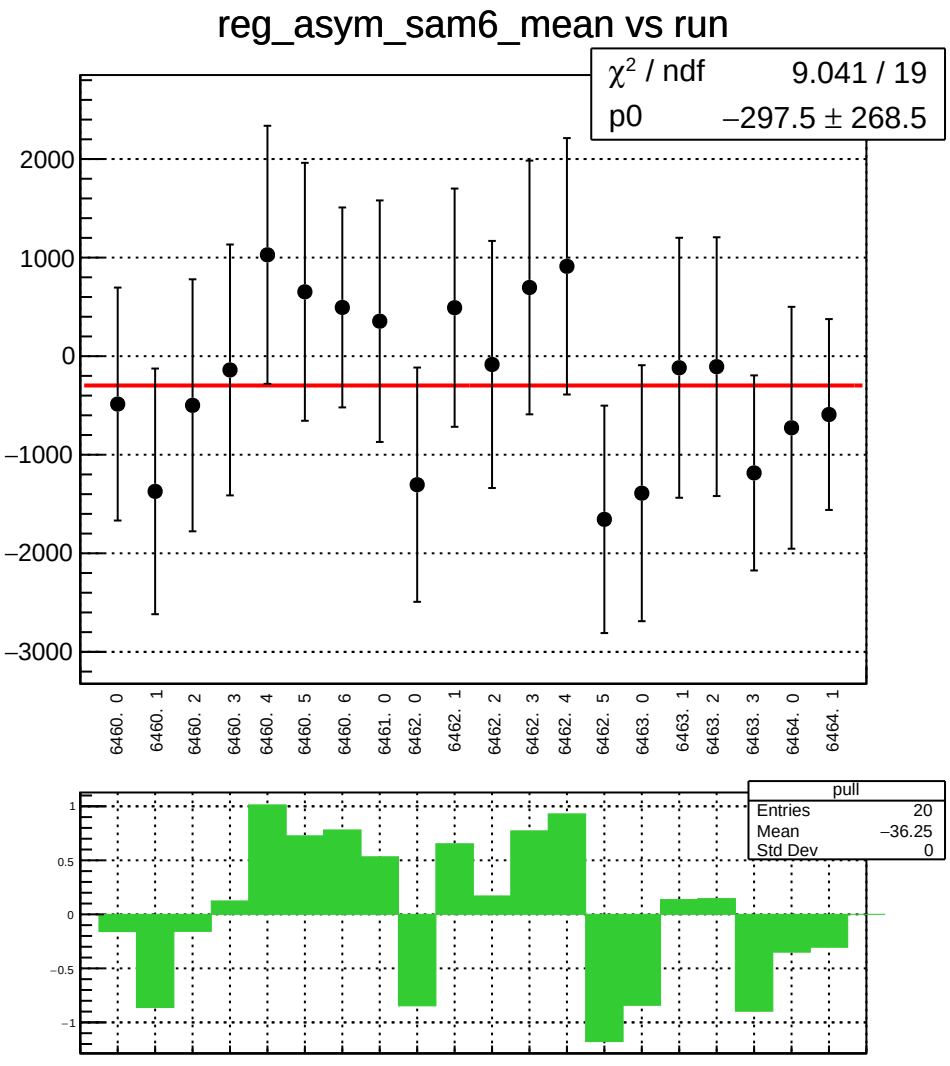

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3962 / 19
p0 25.24 ± 0.03985
34
32
30
28
26
24
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

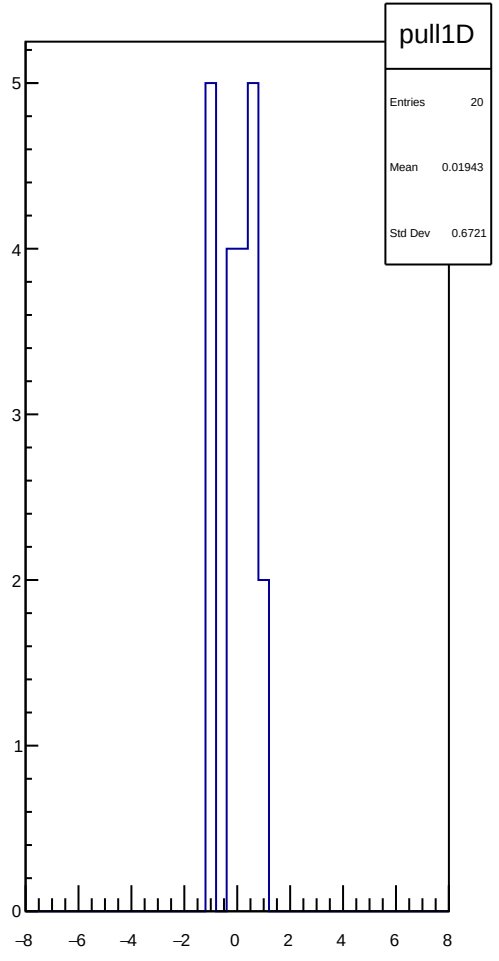

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.16 / 19
p0 0.001092 ± 0.05636
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −44.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.05384
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

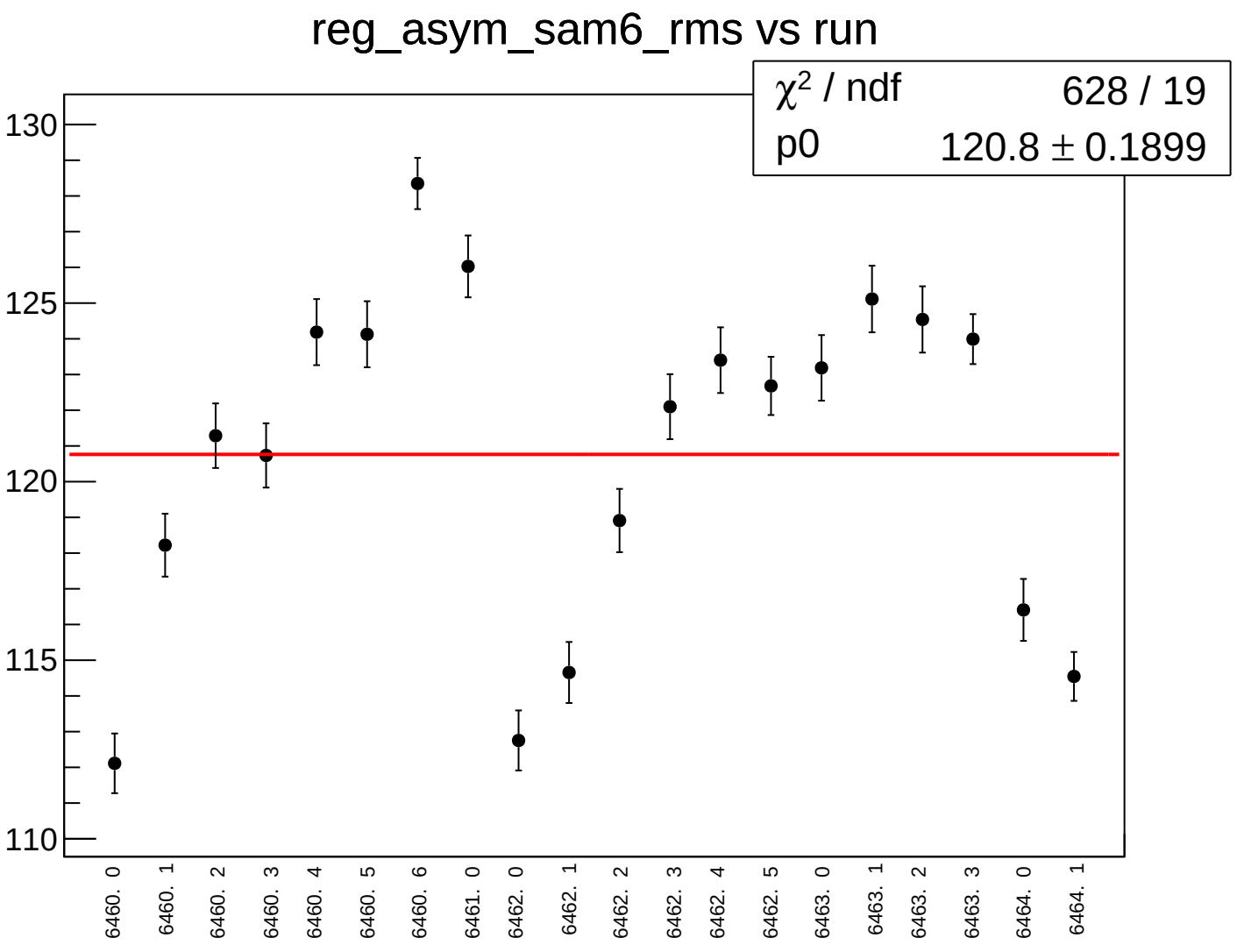

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3962 / 19
p0 25.24 ± 0.03985
34
32
30
28
26
24
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

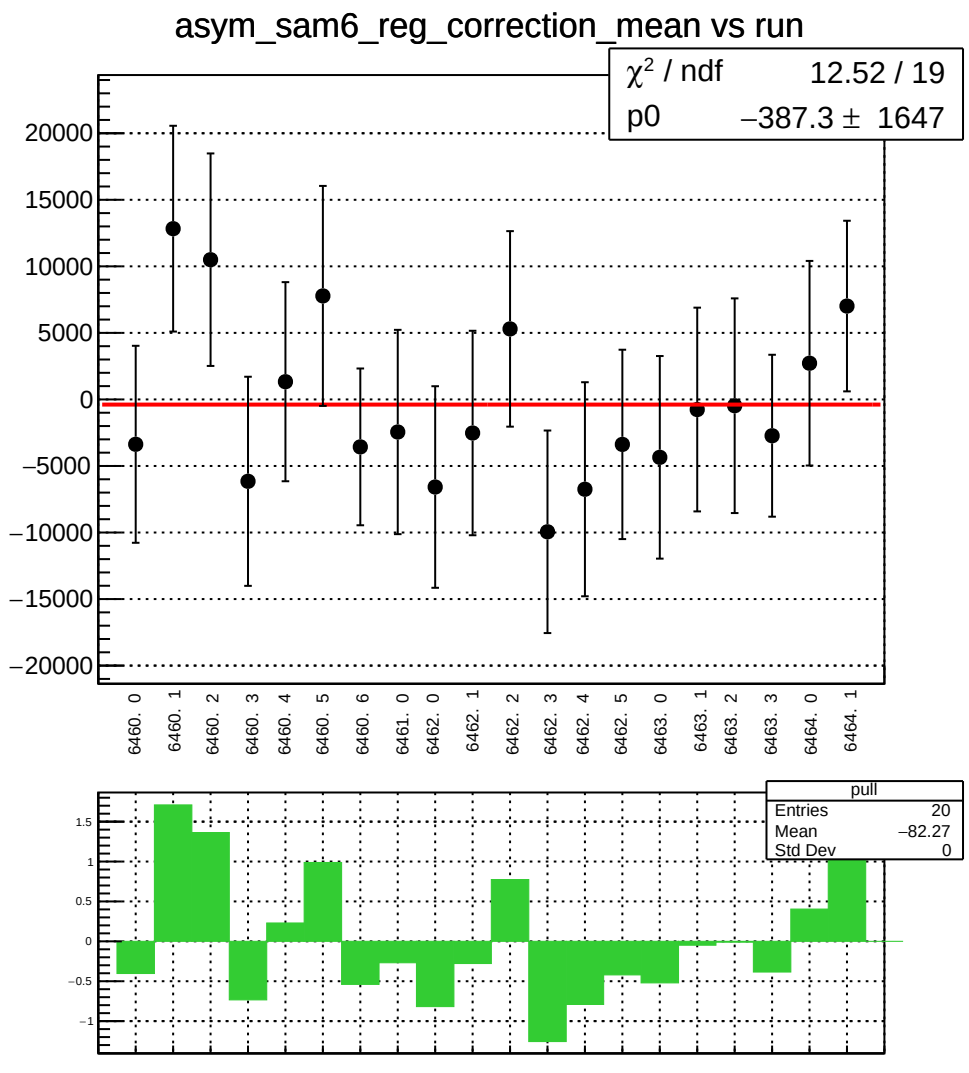

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 26.01 / 19
p0 2.518e−14 ± 1.486e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 11.24
Std Dev 4.014
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 20
Mean −0.1319
Std Dev 1.133
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

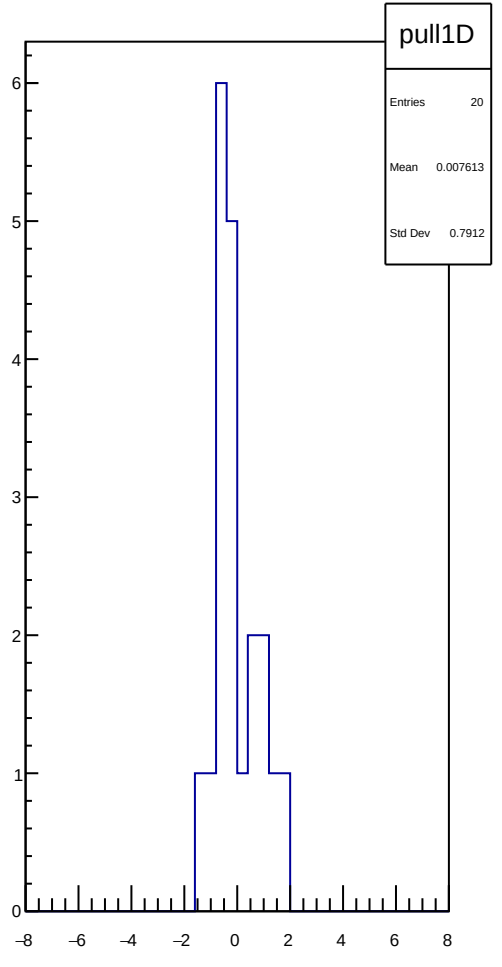

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.931e+05 / 19
p0 4.838e−12 ± 1.05e−14
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

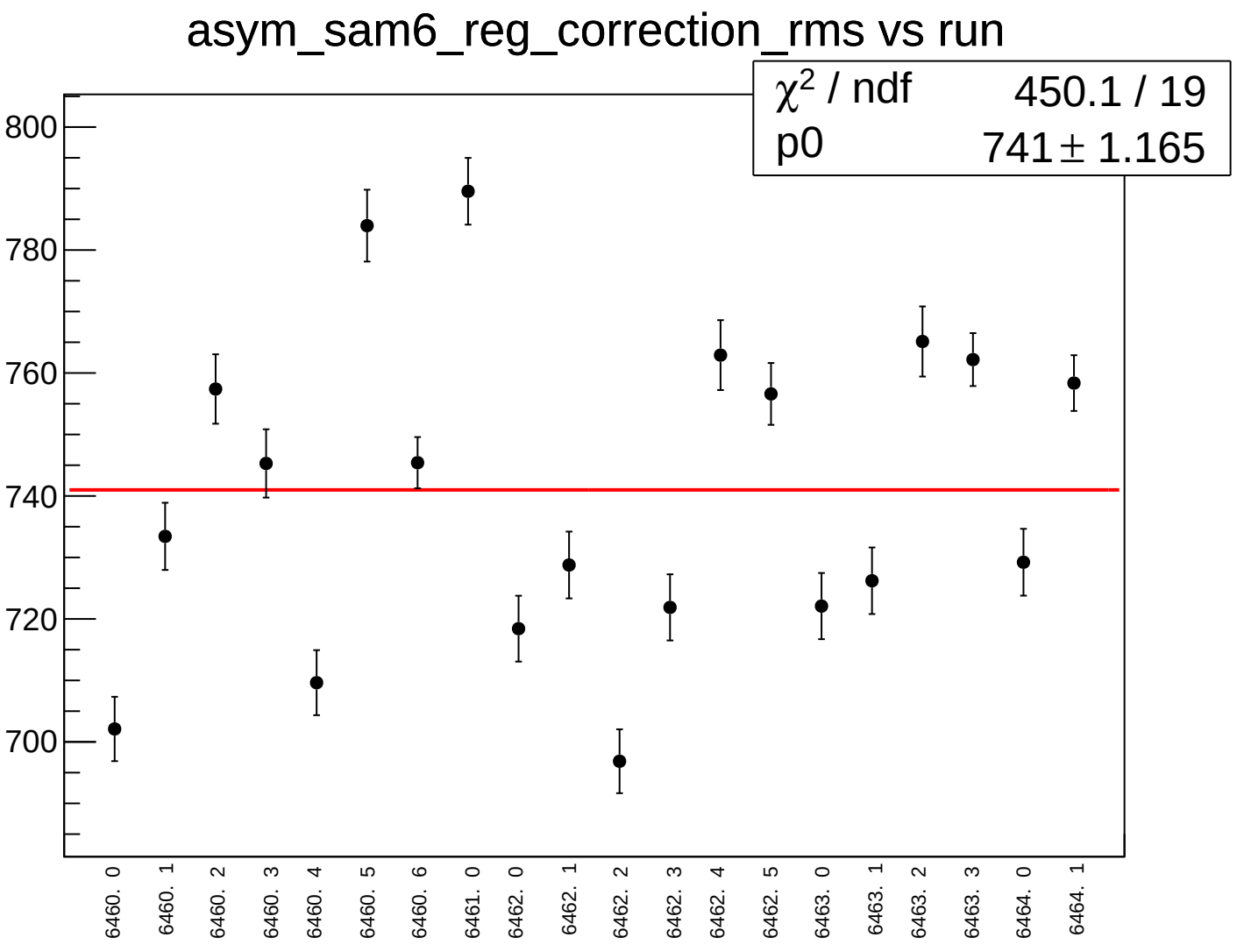

reg_asym_sam6_mean vs run
χ² / ndf 9.041 / 19
p0 −297.5 ± 268.5
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −36.25
Std Dev 0
1
0.5
0
−0.5
−1

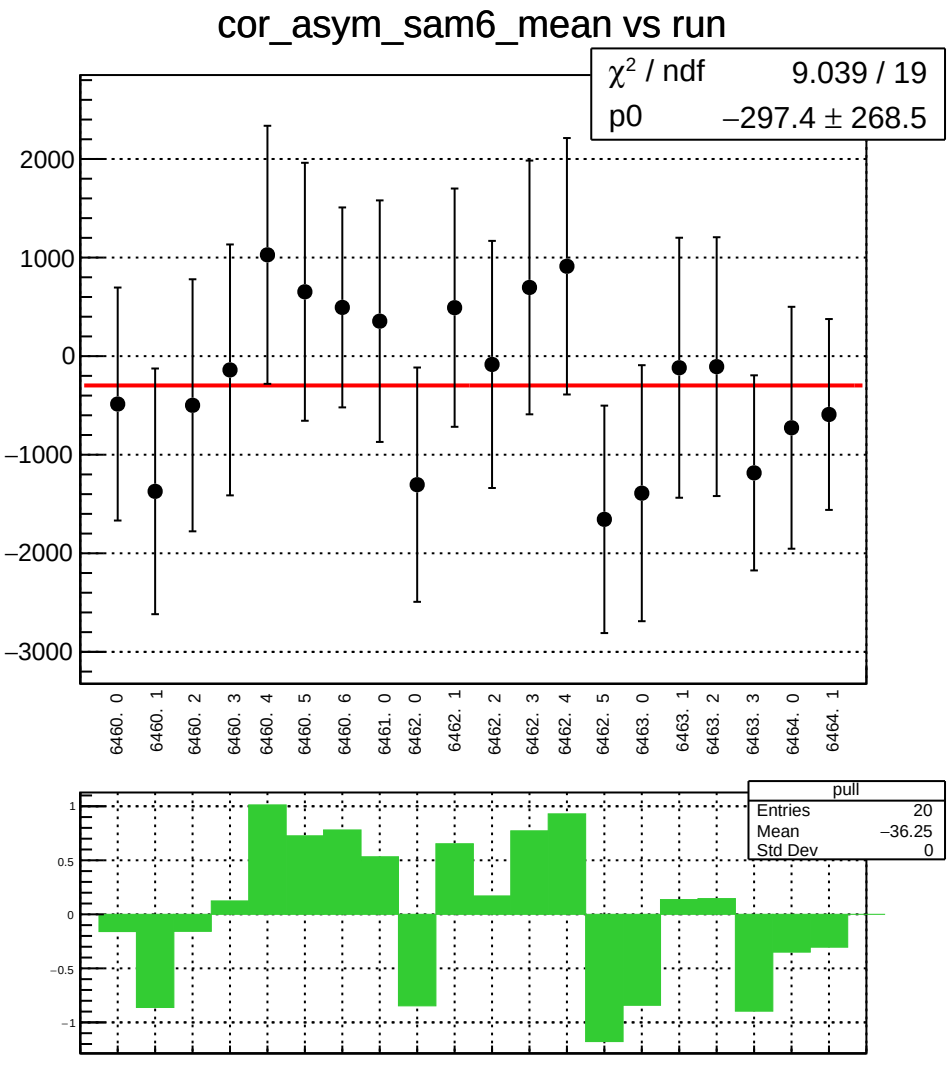

pull1D
Entries 20
Mean 0.01943
Std Dev 0.6721
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

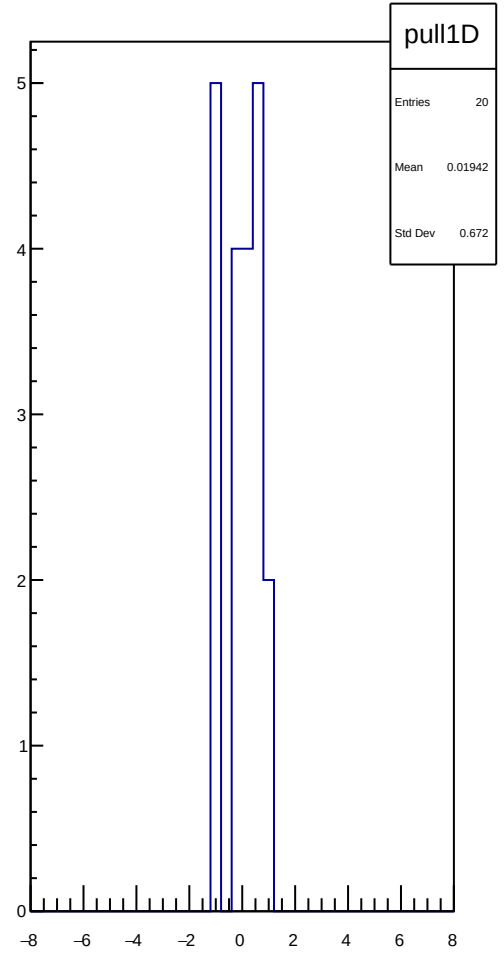

reg_asym_sam6_rms vs run
χ² / ndf 628 / 19
p0 120.8 ± 0.1899
130
125
120
115
110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

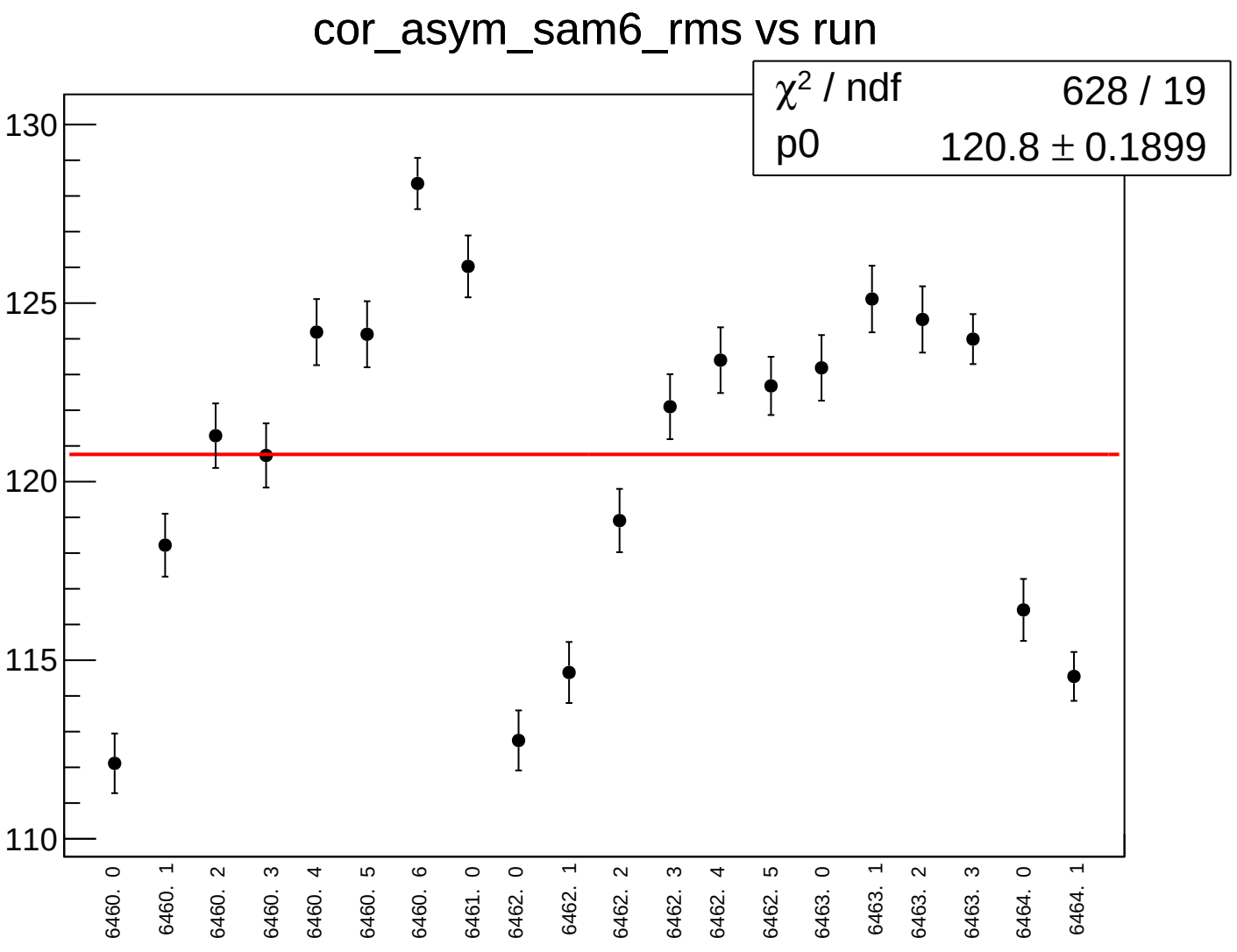

asym_sam6_reg_correction_mean vs run
χ² / ndf 12.52 / 19
p0 −387.3 ± 1647
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −82.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1

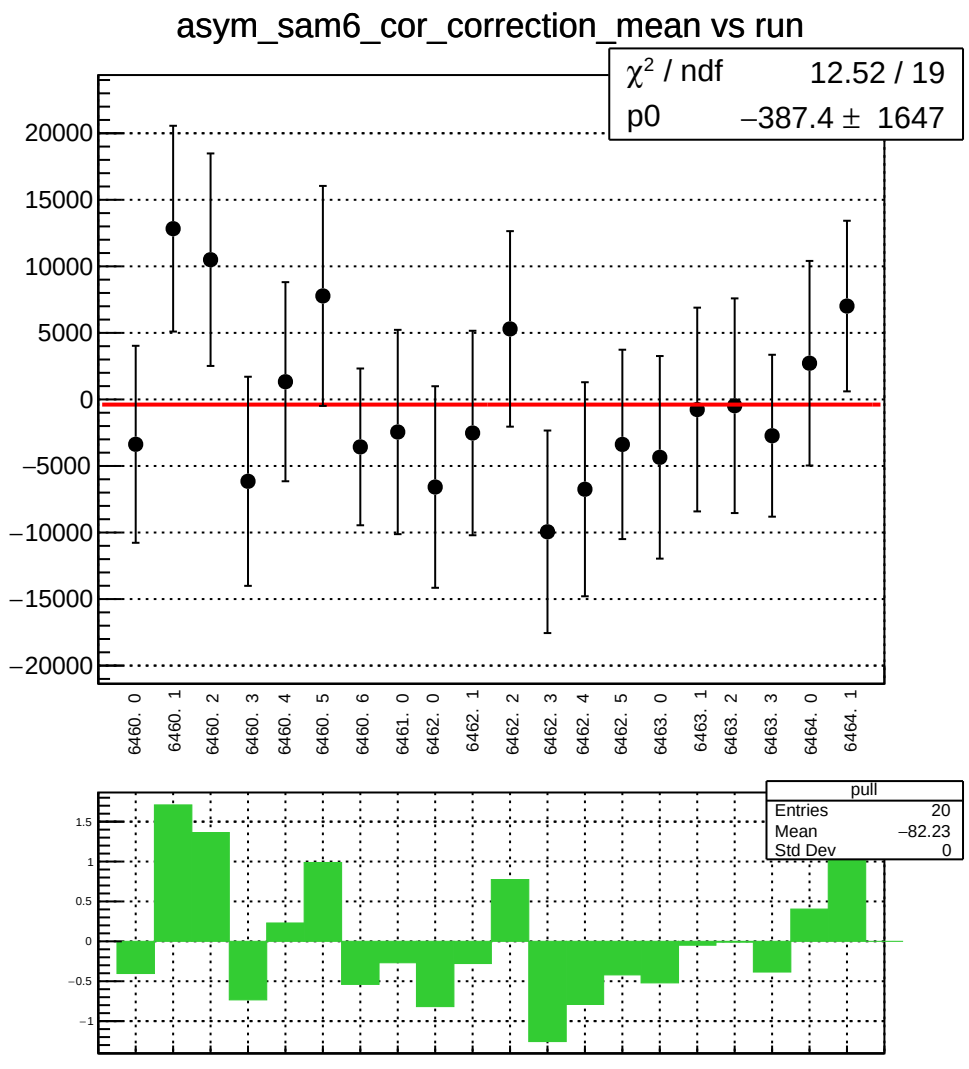

pull1D
Entries 20
Mean 0.007613
Std Dev 0.7912
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

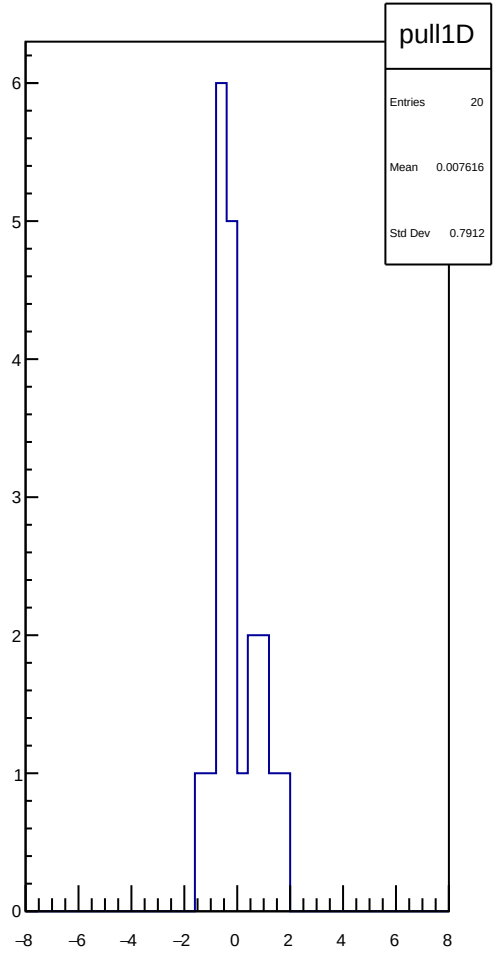

asym_sam6_reg_correction_rms vs run
χ² / ndf 450.1 / 19
p0 741 ± 1.165
800
780
760
740
720
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

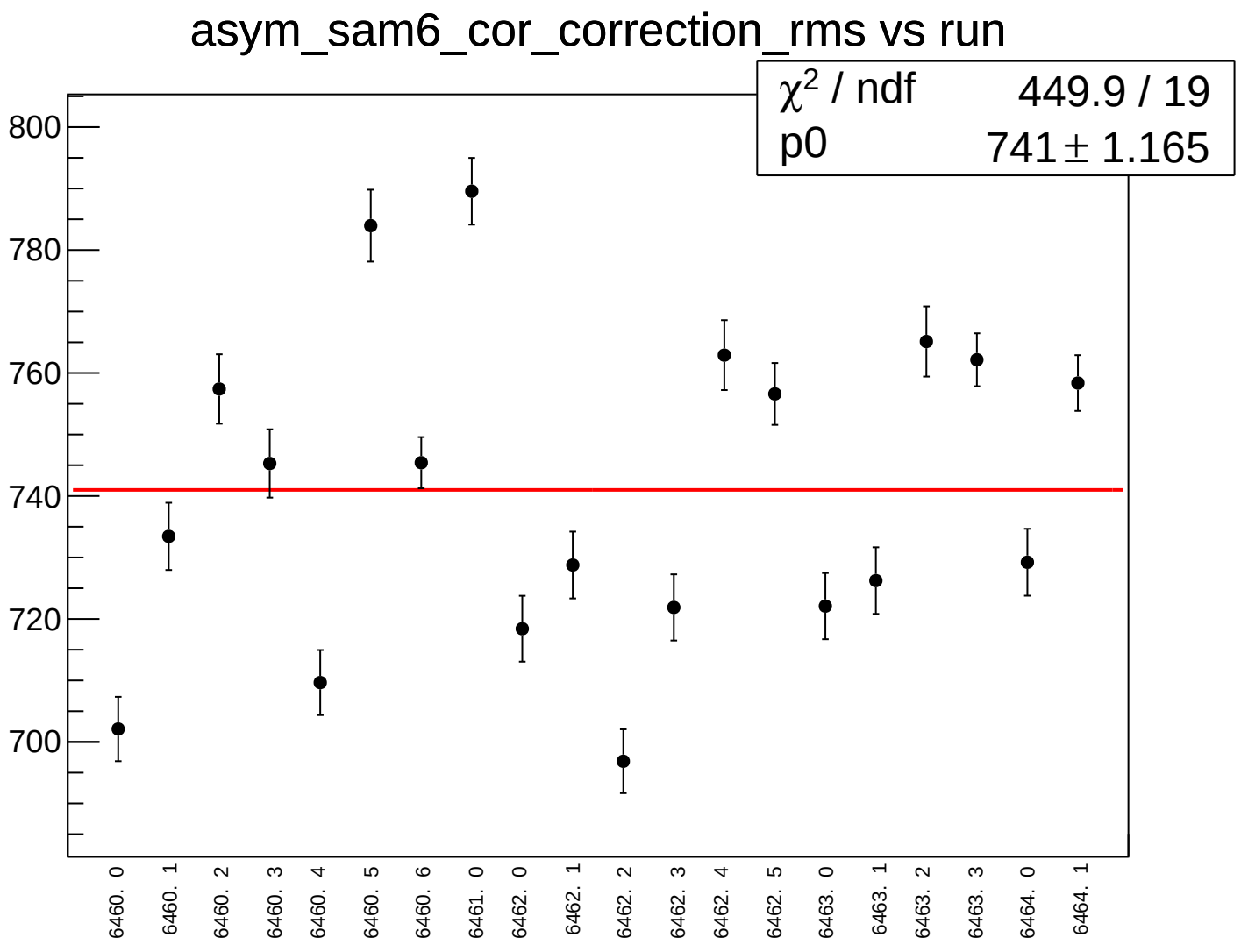

cor_asym_sam6_mean vs run
χ² / ndf 9.039 / 19
p0 −297.4 ± 268.5
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −36.25
Std Dev 0
1
0.5
0
−0.5
−1

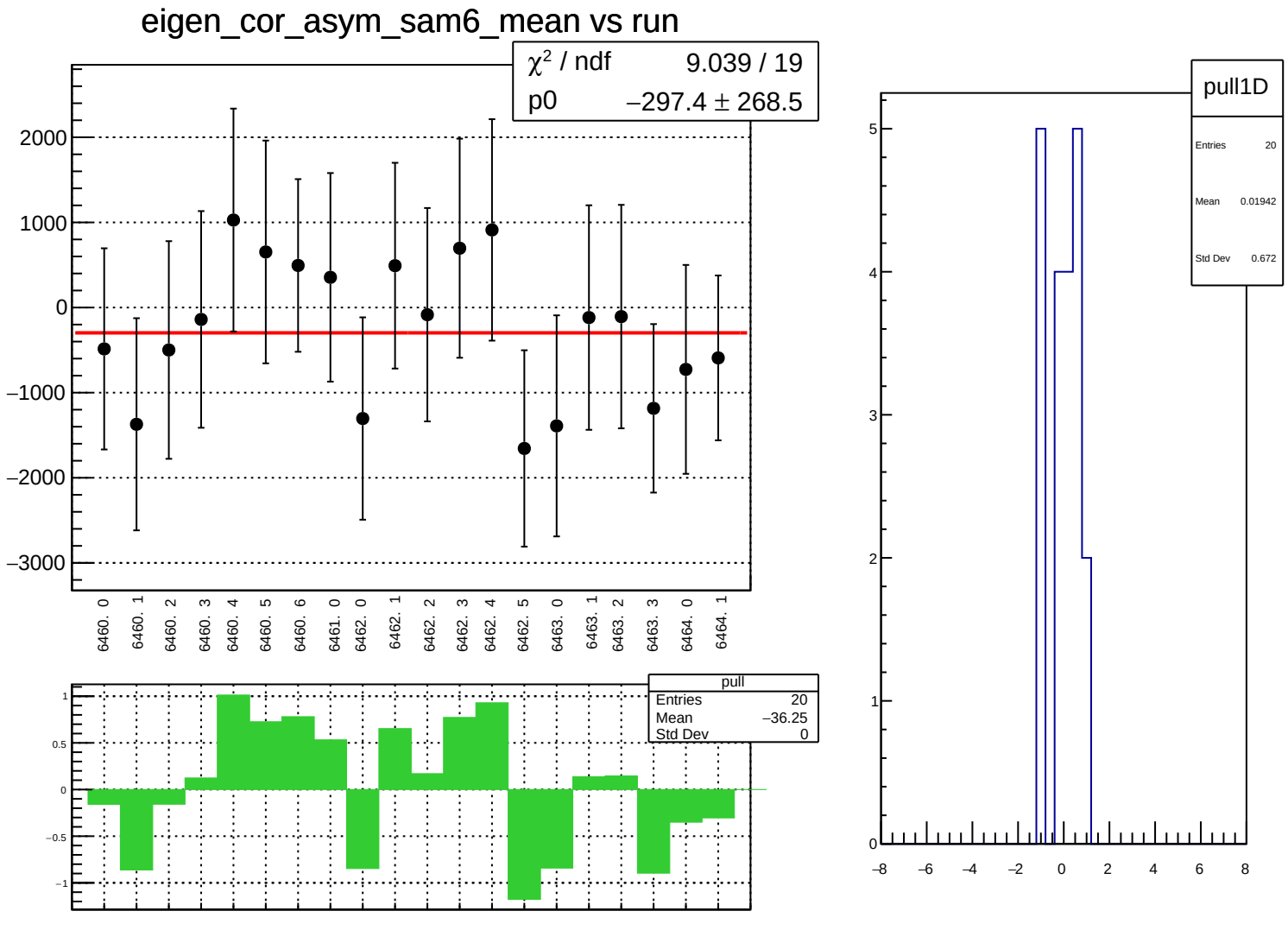

pull1D
Entries 20
Mean 0.01942
Std Dev 0.672
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

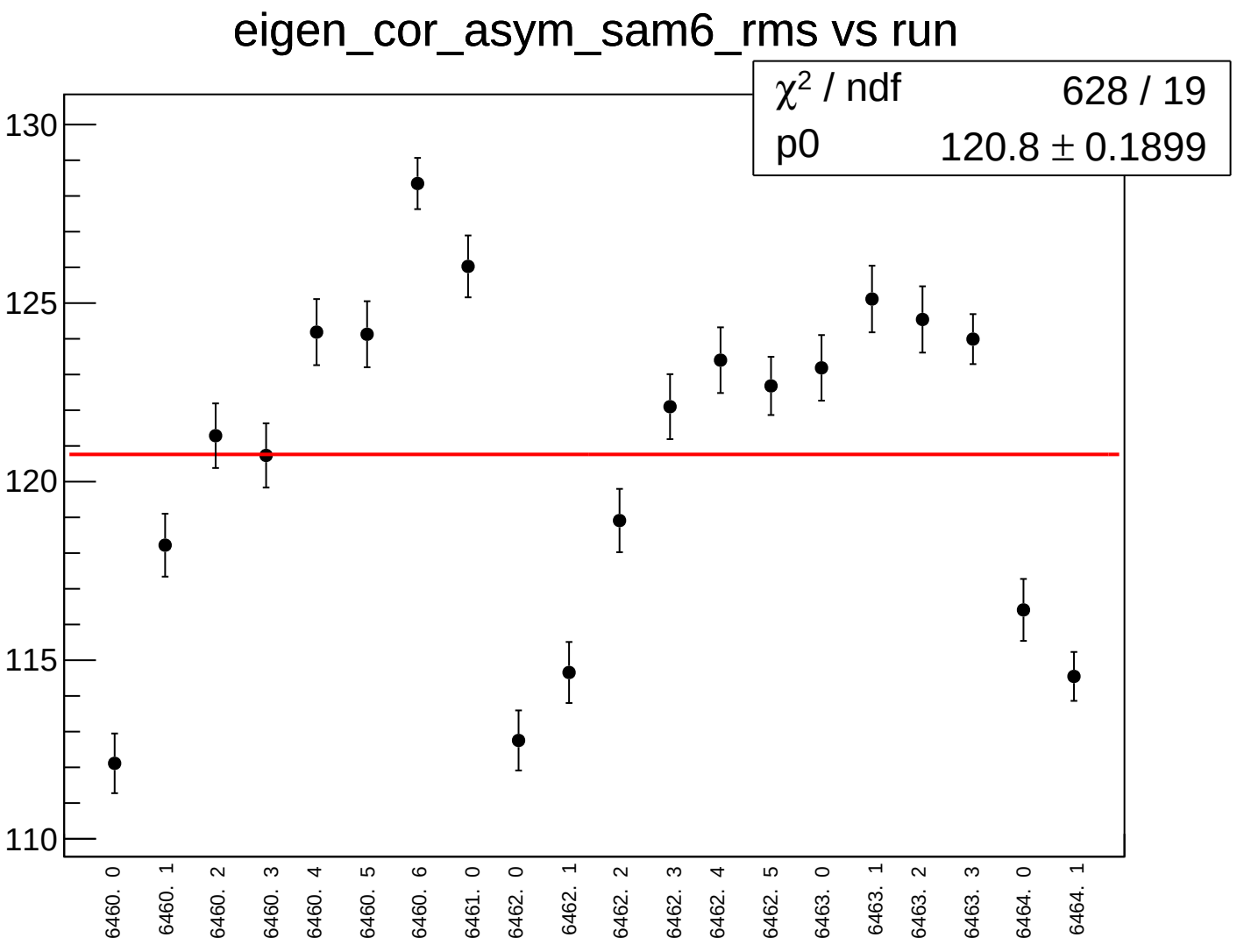

cor_asym_sam6_rms vs run
χ² / ndf 628 / 19
p0 120.8 ± 0.1899
130
125
120
115
110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

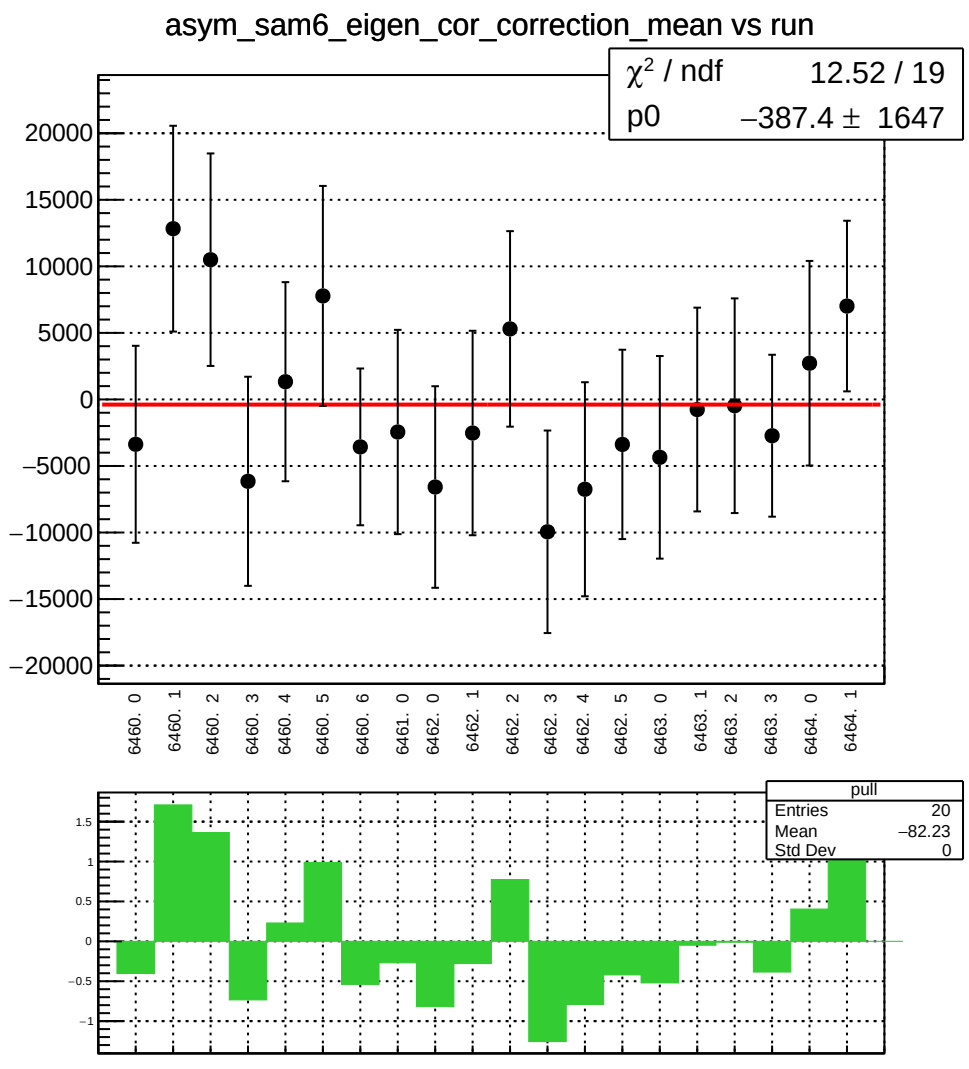

asym_sam6_cor_correction_mean vs run
χ² / ndf 12.52 / 19
p0 −387.4 ± 1647
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −82.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1

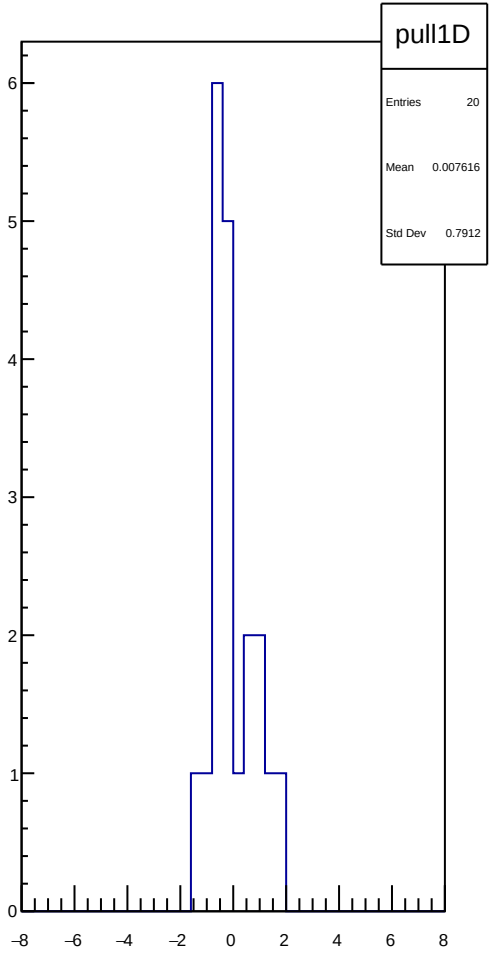

pull1D
Entries 20
Mean 0.007616
Std Dev 0.7912
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

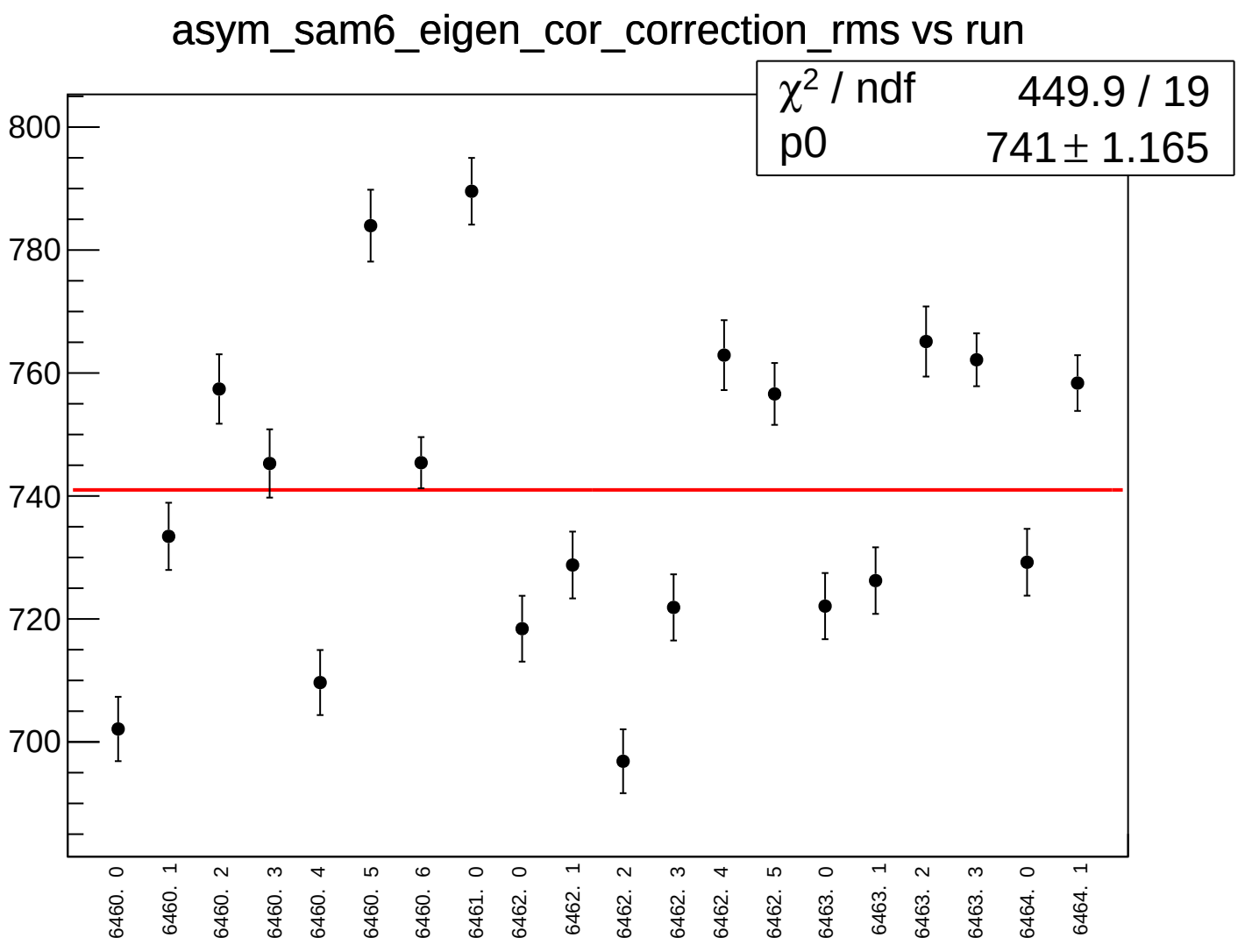

asym_sam6_cor_correction_rms vs run
χ² / ndf 449.9 / 19
p0 741 ± 1.165
800
780
760
740
720
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

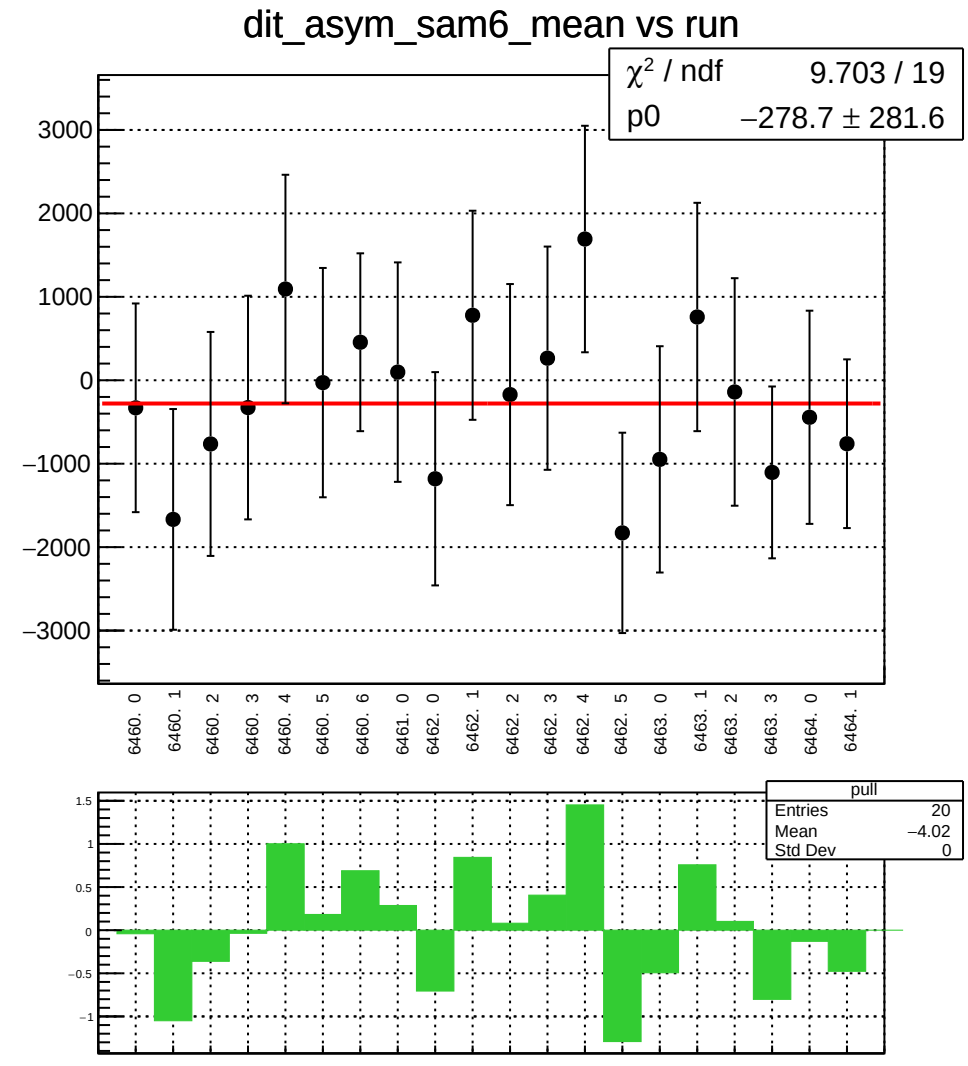

eigen_cor_asym_sam6_mean vs run
χ² / ndf 9.039 / 19
p0 −297.4 ± 268.5
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −36.25
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01942
Std Dev 0.672
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

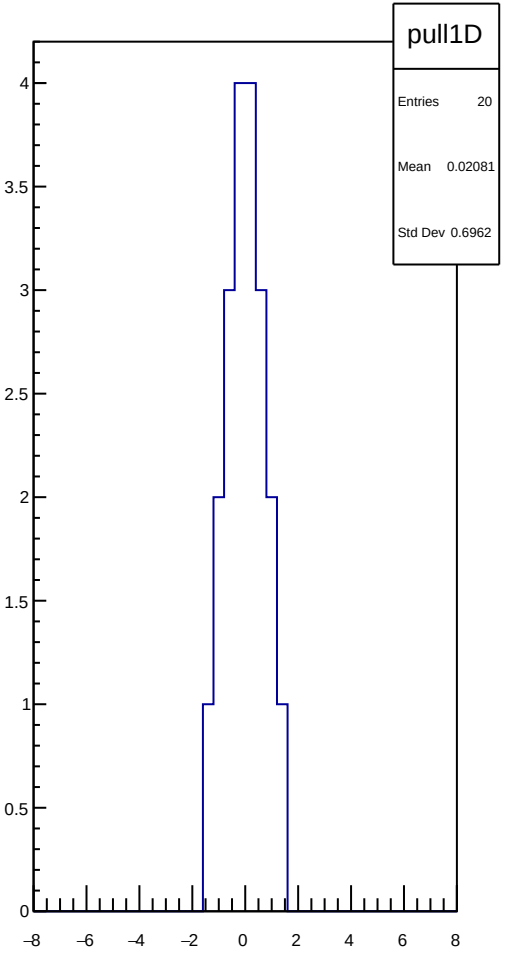

eigen_cor_asym_sam6_rms vs run
χ² / ndf 628 / 19
p0 120.8 ± 0.1899
130
125
120
115
110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

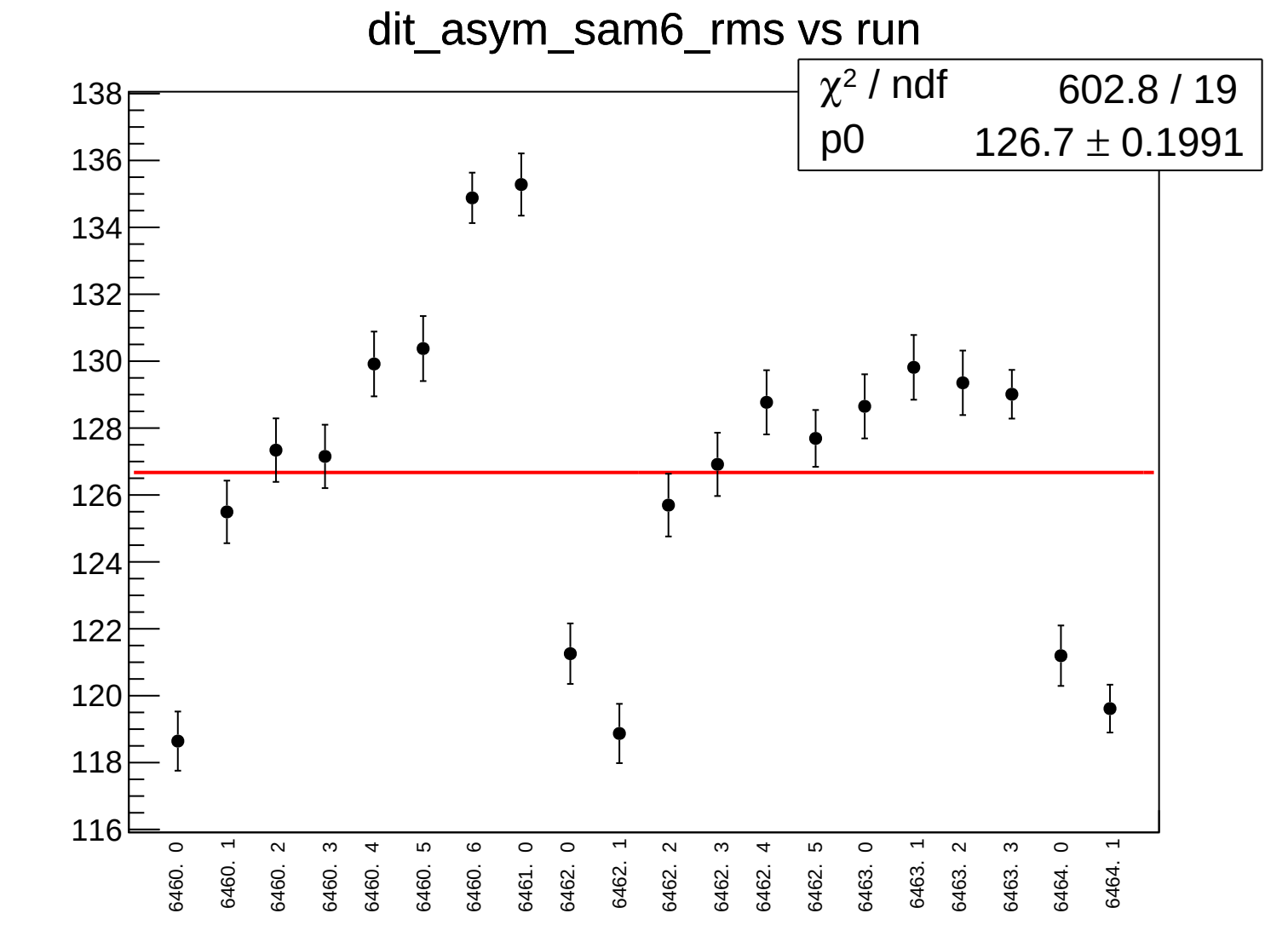

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 12.52 / 19
p0 −387.4 ± 1647
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −82.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1

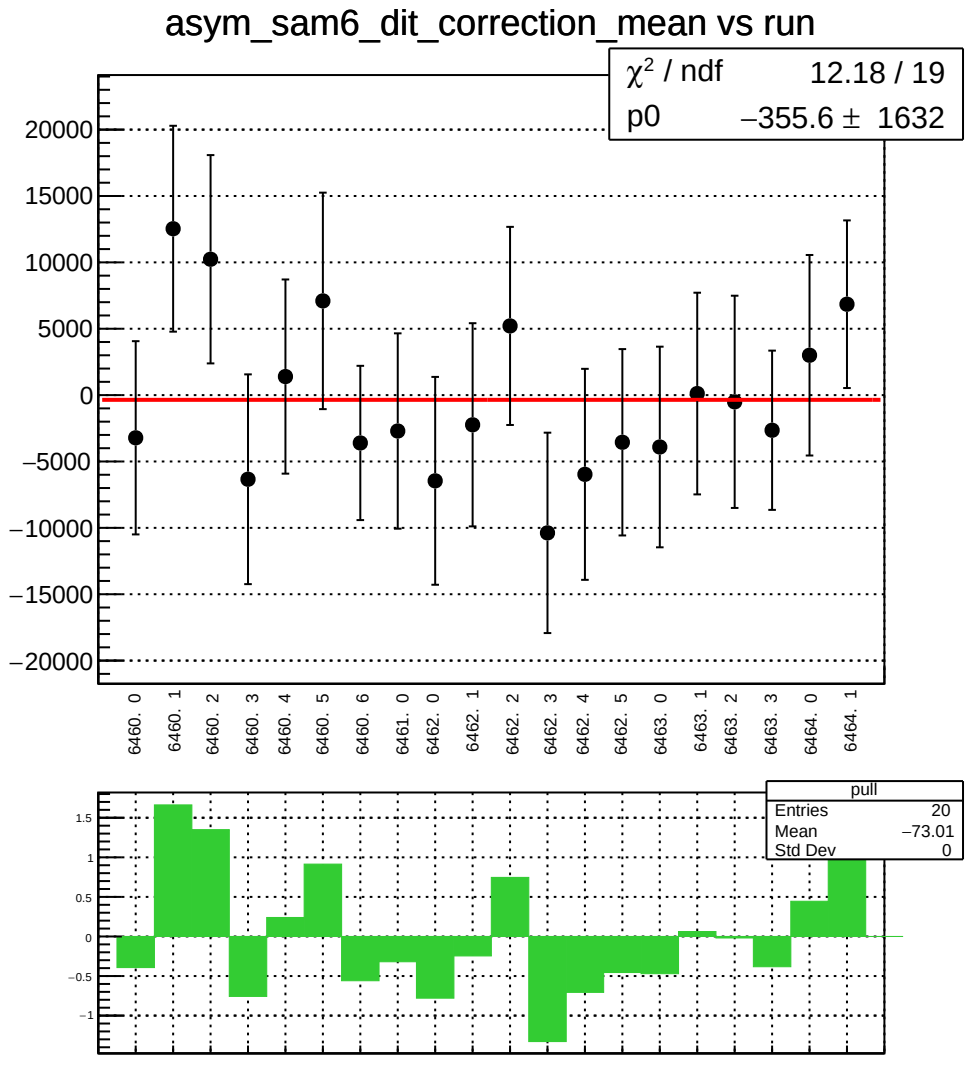

pull1D
Entries 20
Mean 0.007616
Std Dev 0.7912
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

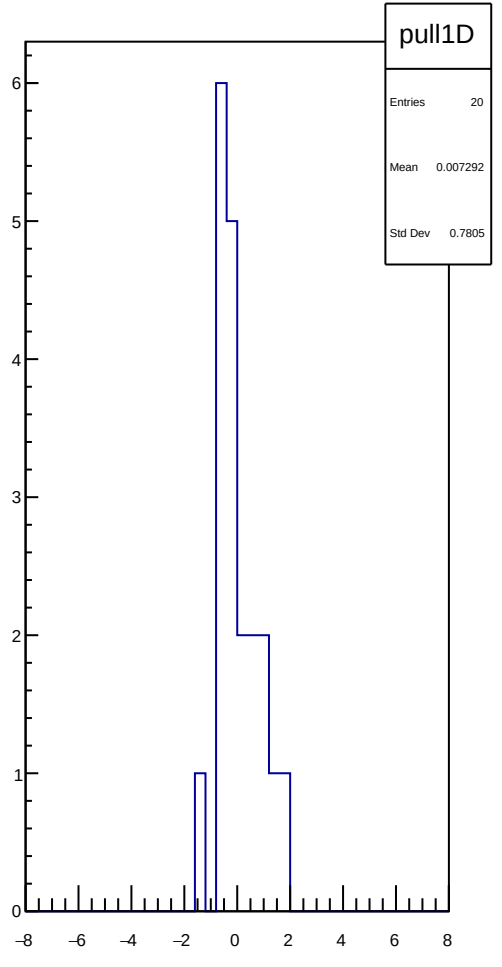

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 449.9 / 19
p0 741 ± 1.165
800
780
760
740
720
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

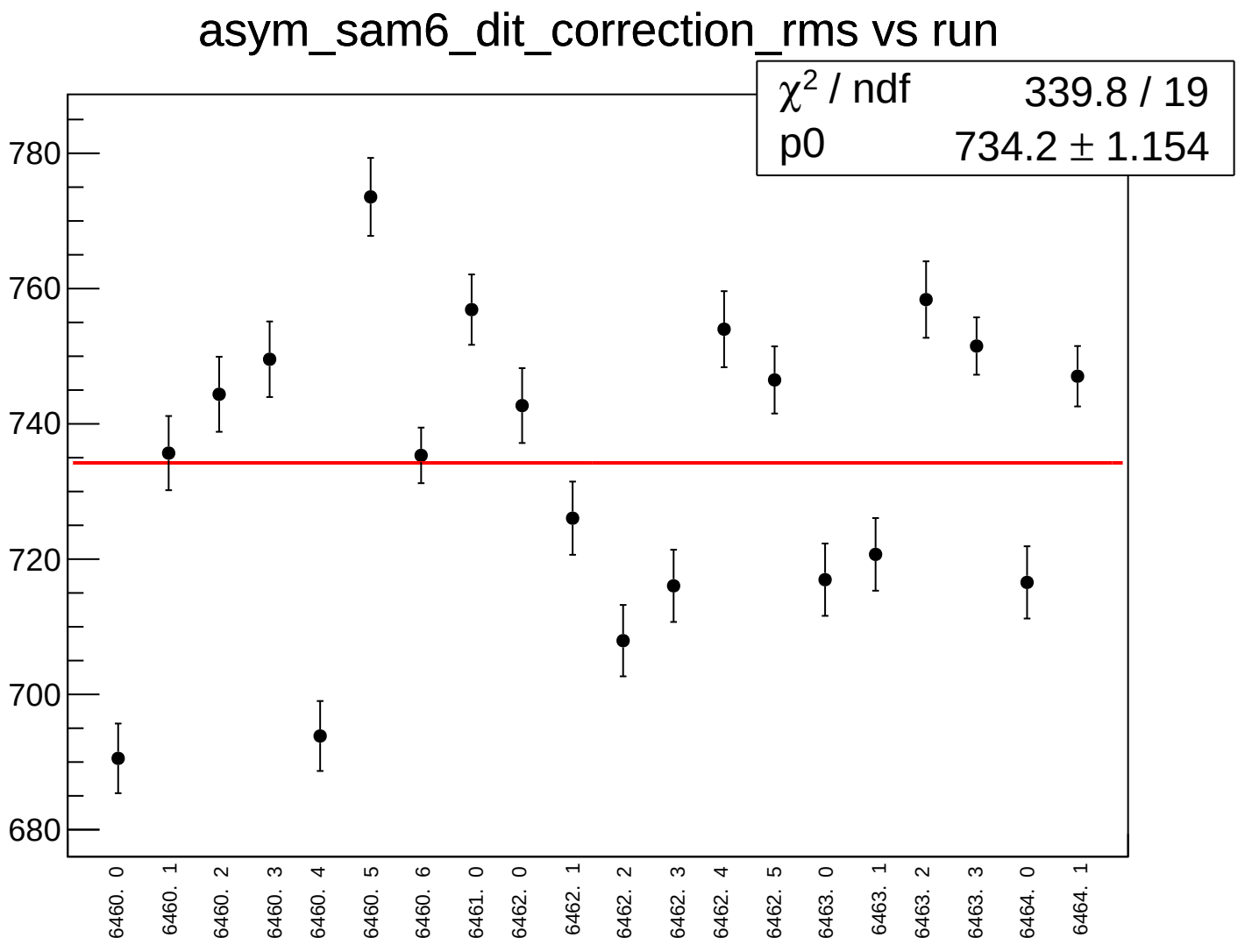

dit_asym_sam6_mean vs run
χ² / ndf 9.703 / 19
p0 −278.7 ± 281.6
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1

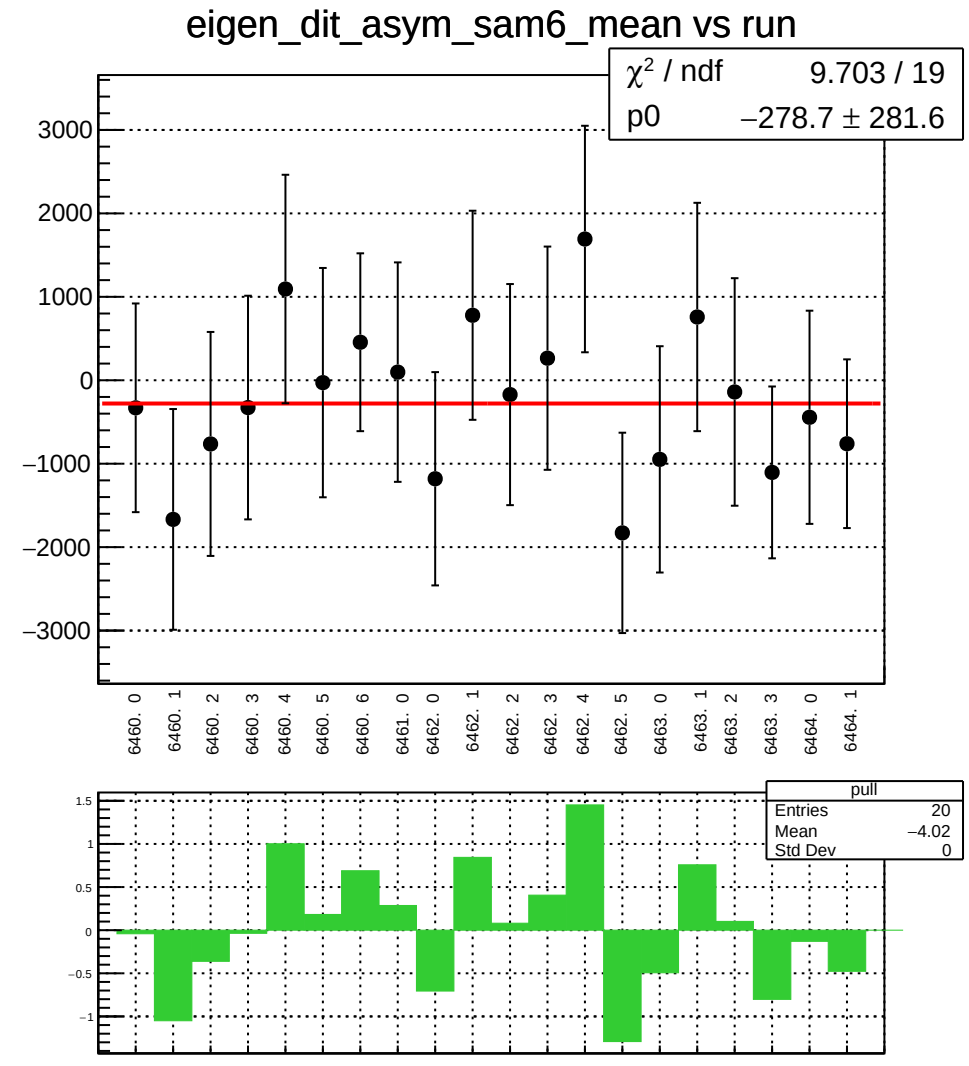

pull1D
Entries 20
Mean 0.02081
Std Dev 0.6962
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

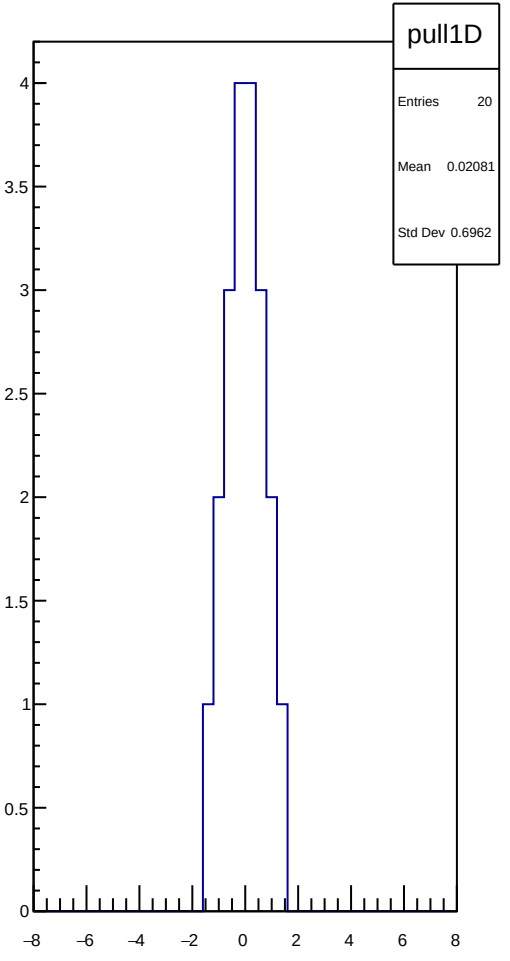

dit_asym_sam6_rms vs run
χ² / ndf 602.8 / 19
p0 126.7 ± 0.1991
138
136
134
132
130
128
126
124
122
120
118
116
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

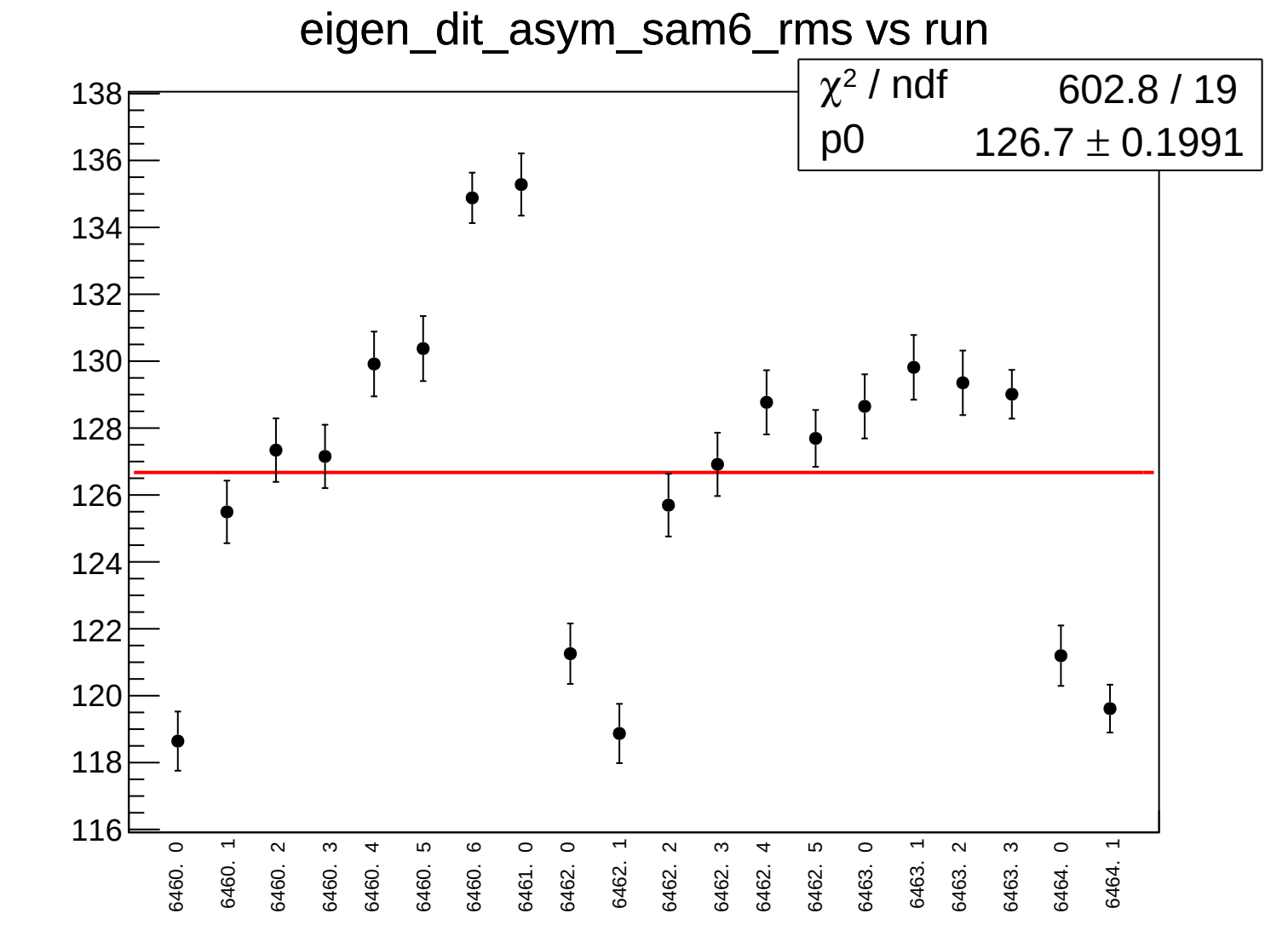

asym_sam6_dit_correction_mean vs run
χ² / ndf 12.18 / 19
p0 −355.6 ± 1632
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −73.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.007292
Std Dev 0.7805
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_dit_correction_rms vs run
χ² / ndf 339.8 / 19
p0 734.2 ± 1.154
780
760
740
720
700
680
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_dit_asym_sam6_mean vs run
χ² / ndf 9.703 / 19
p0 −278.7 ± 281.6
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.02081
Std Dev 0.6962
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam6_rms vs run
χ² / ndf 602.8 / 19
p0 126.7 ± 0.1991
138
136
134
132
130
128
126
124
122
120
118
116
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
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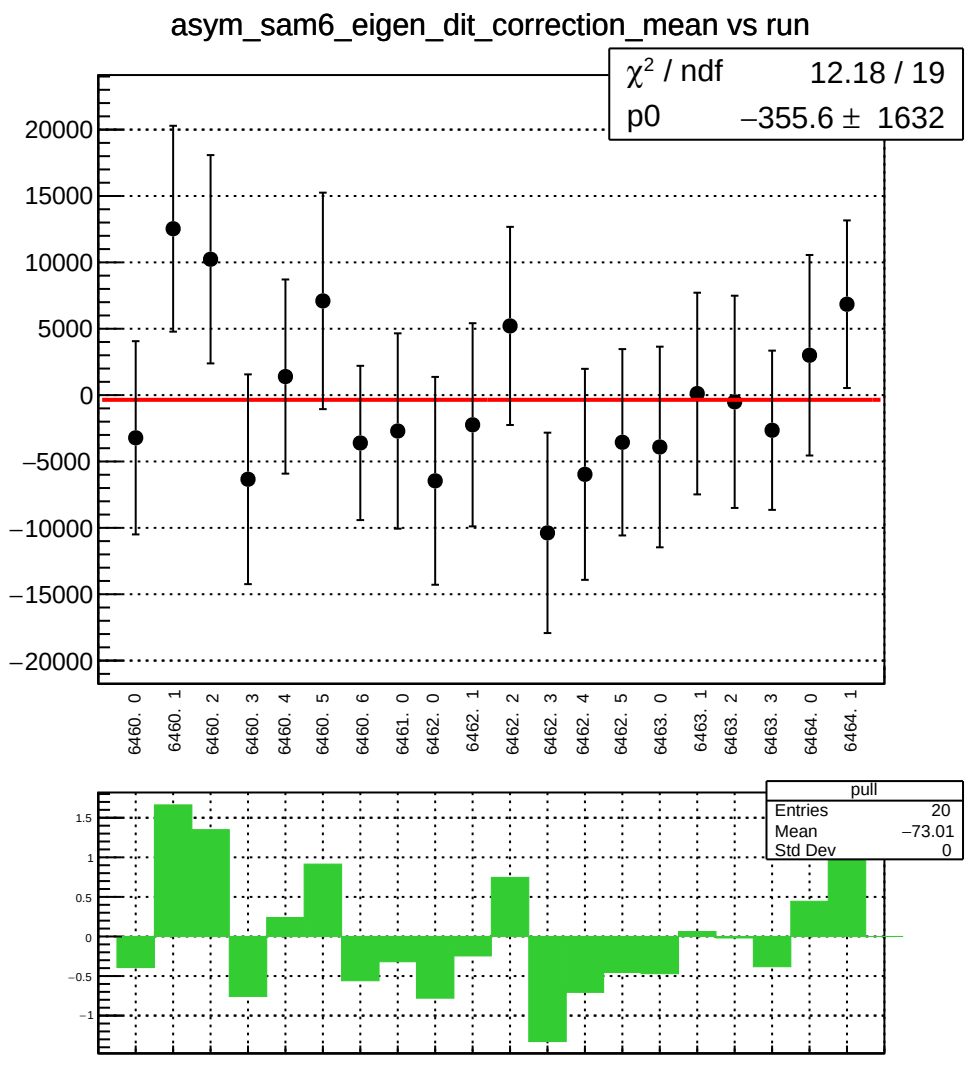
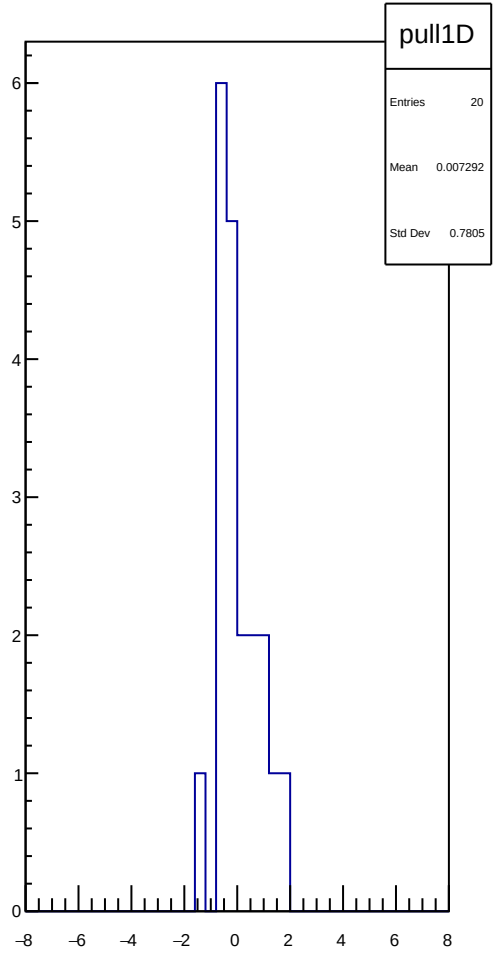
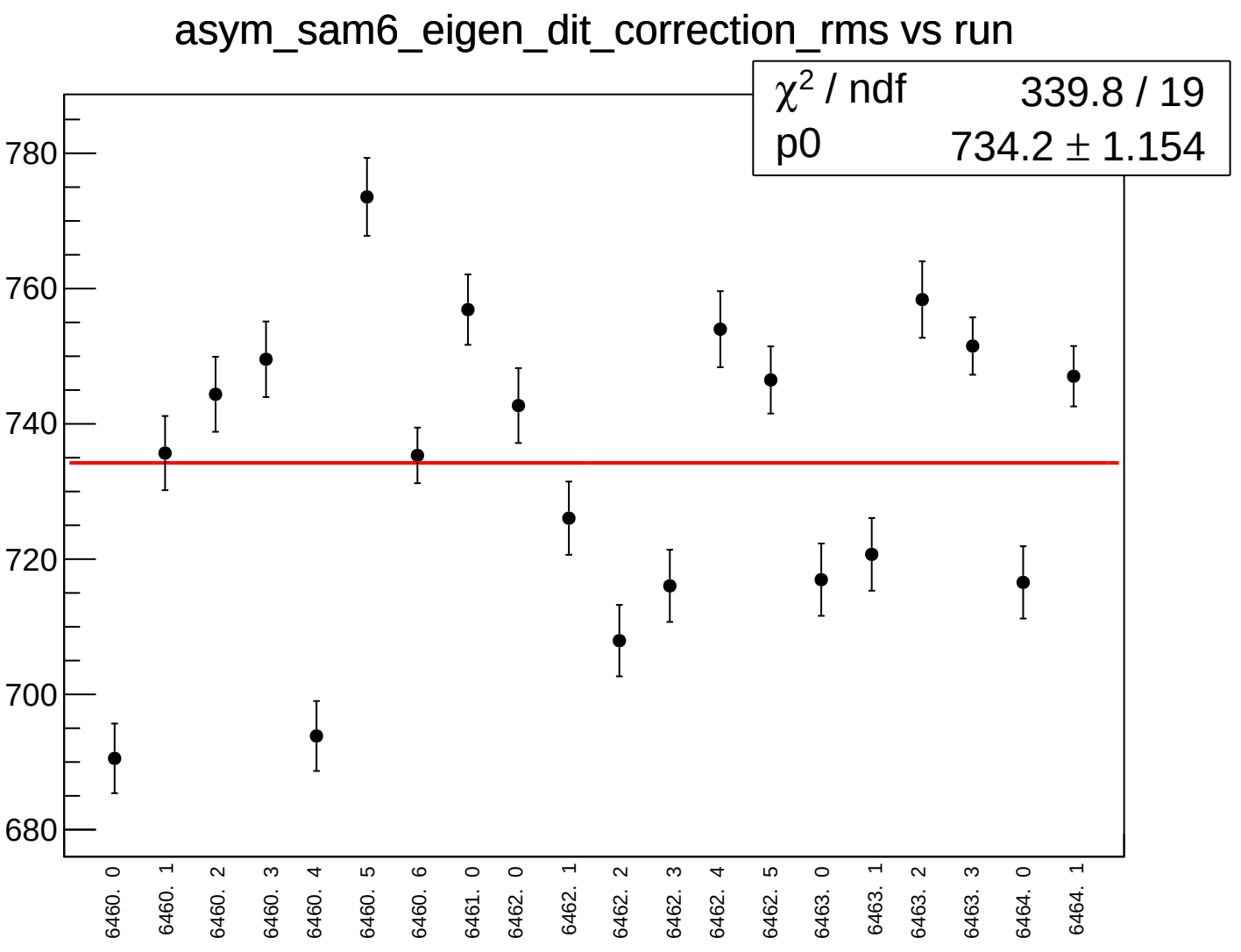
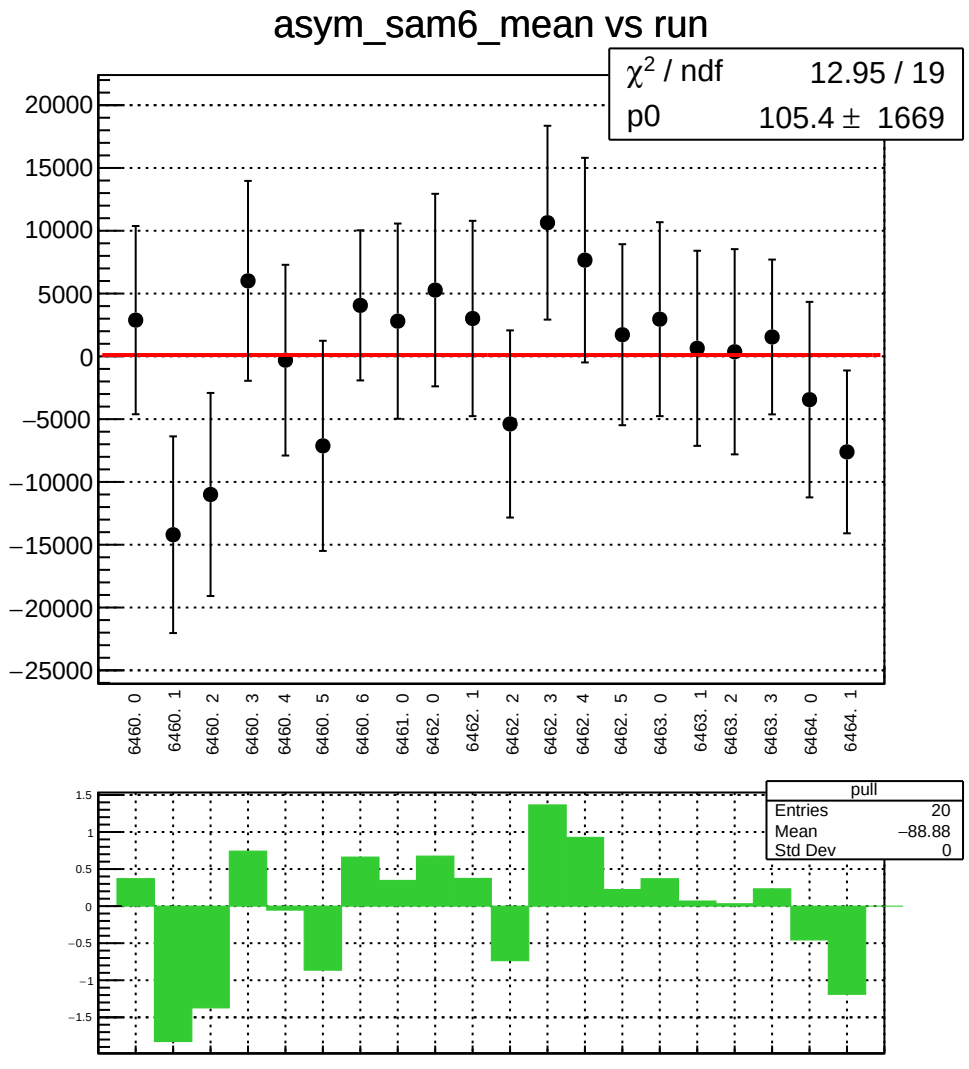
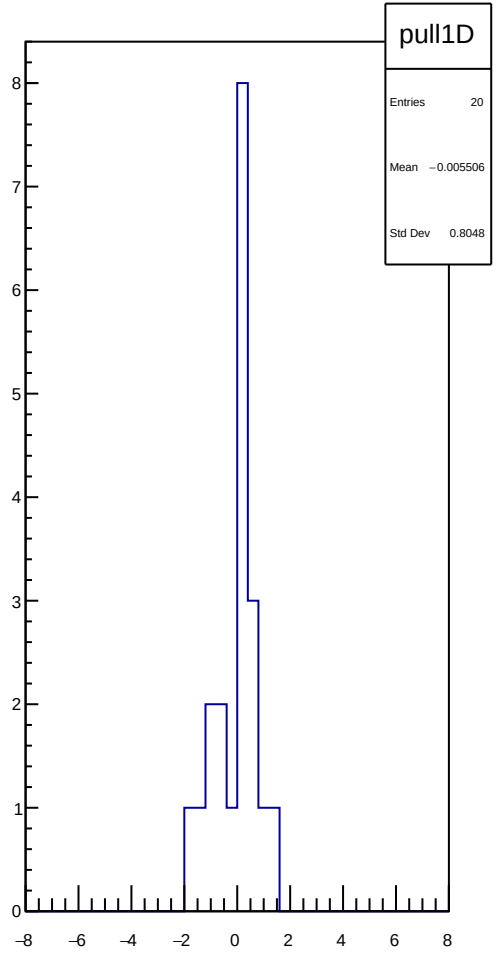
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

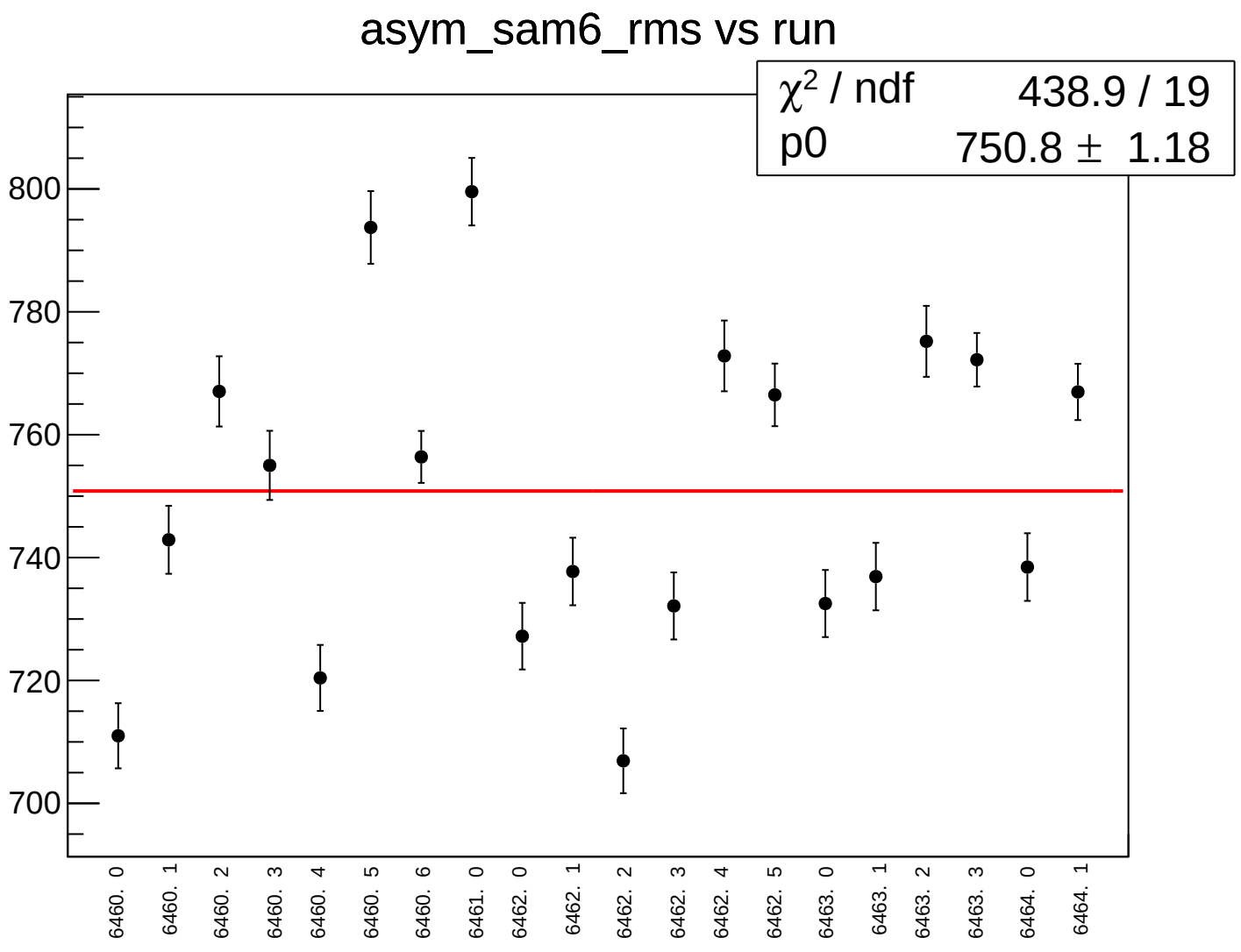

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 12.18 / 19
p0 −355.6 ± 1632
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −73.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1

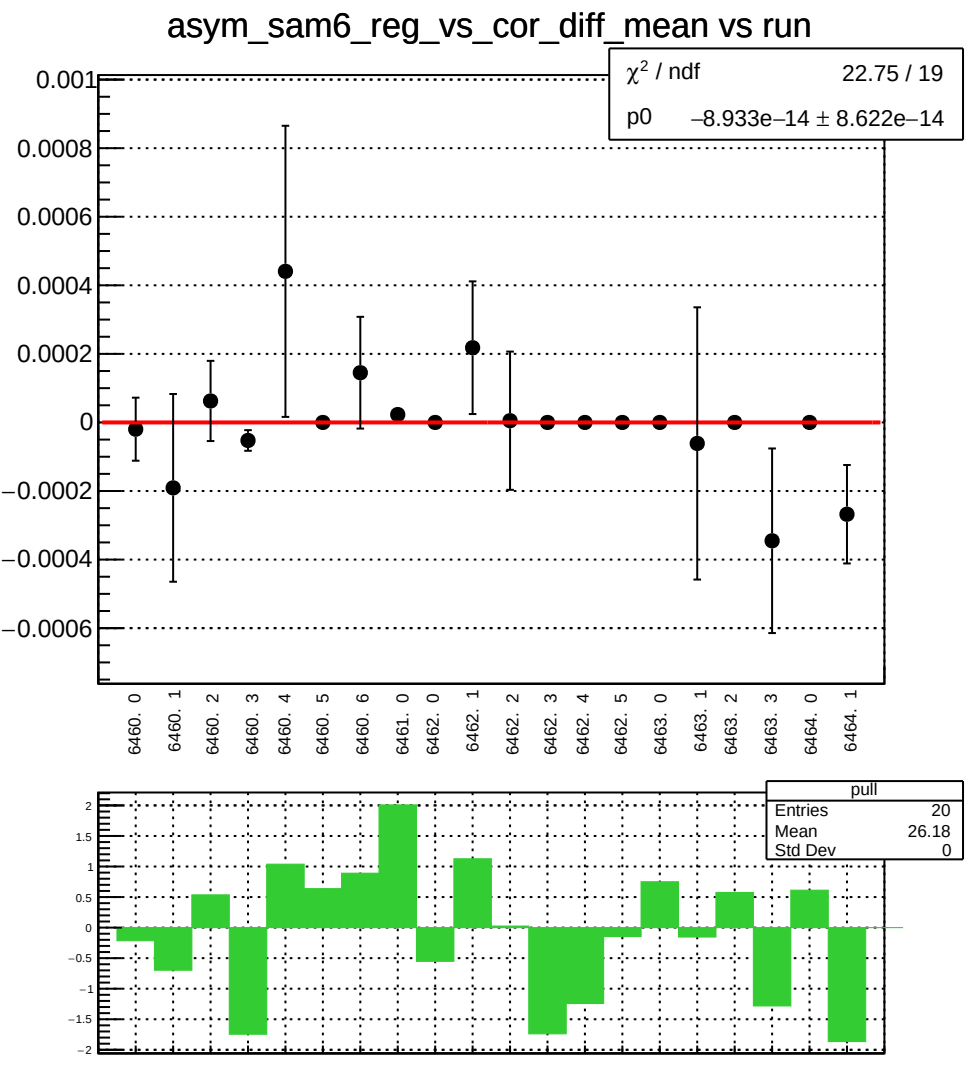

pull1D
Entries 20
Mean 0.007292
Std Dev 0.7805
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

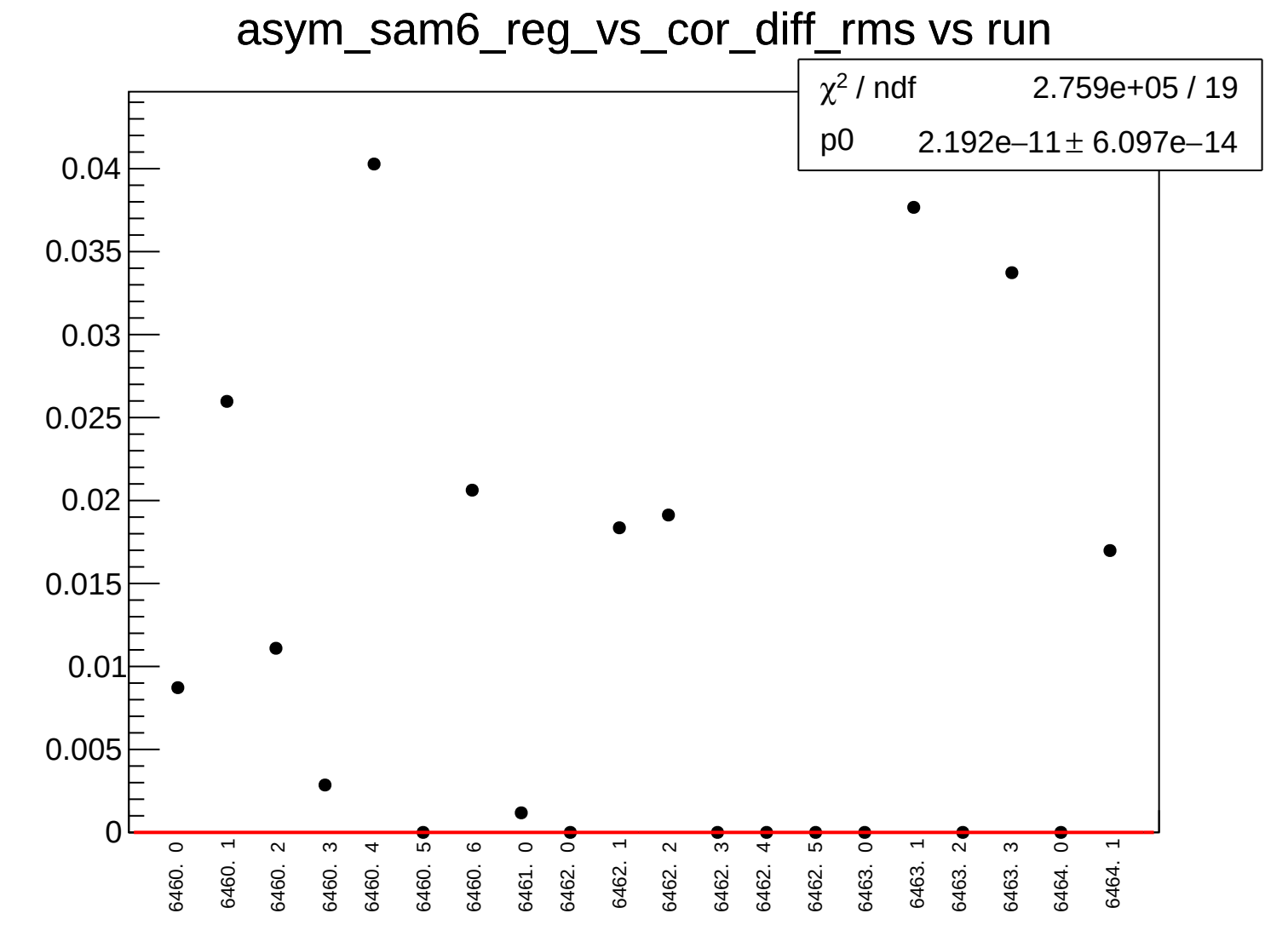

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 339.8 / 19
p0 734.2 ± 1.154
780
760
740
720
700
680
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

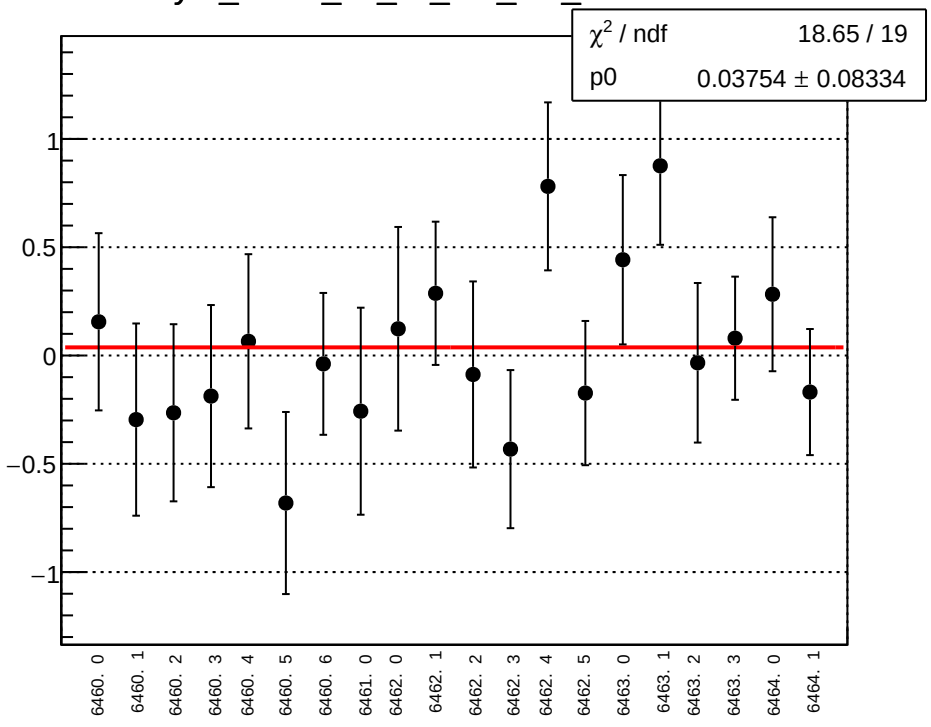

asym_sam6_mean vs run
χ² / ndf 12.95 / 19
p0 105.4 ± 1669
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −88.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

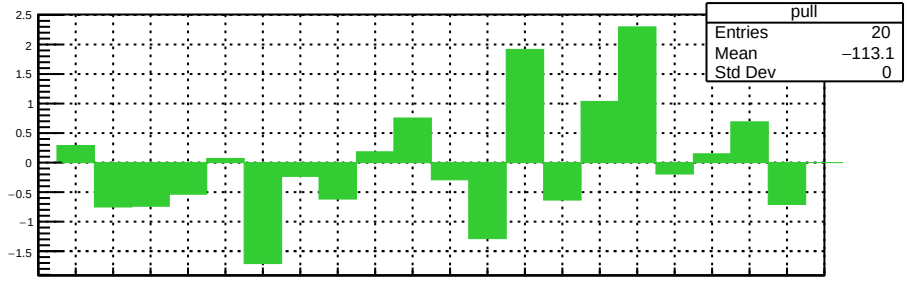

pull1D
Entries 20
Mean −0.005506
Std Dev 0.8048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

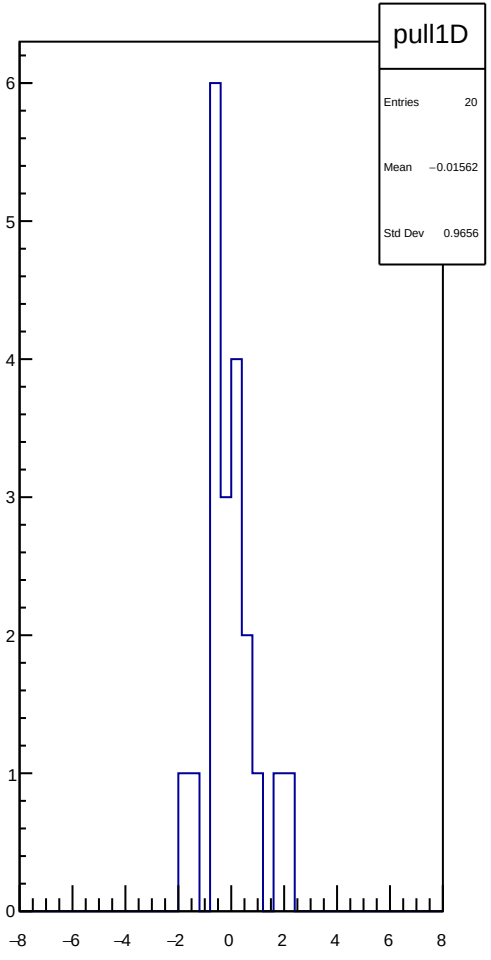

asym_sam6_rms vs run
χ² / ndf 438.9 / 19
p0 750.8 ± 1.18
800
780
760
740
720
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

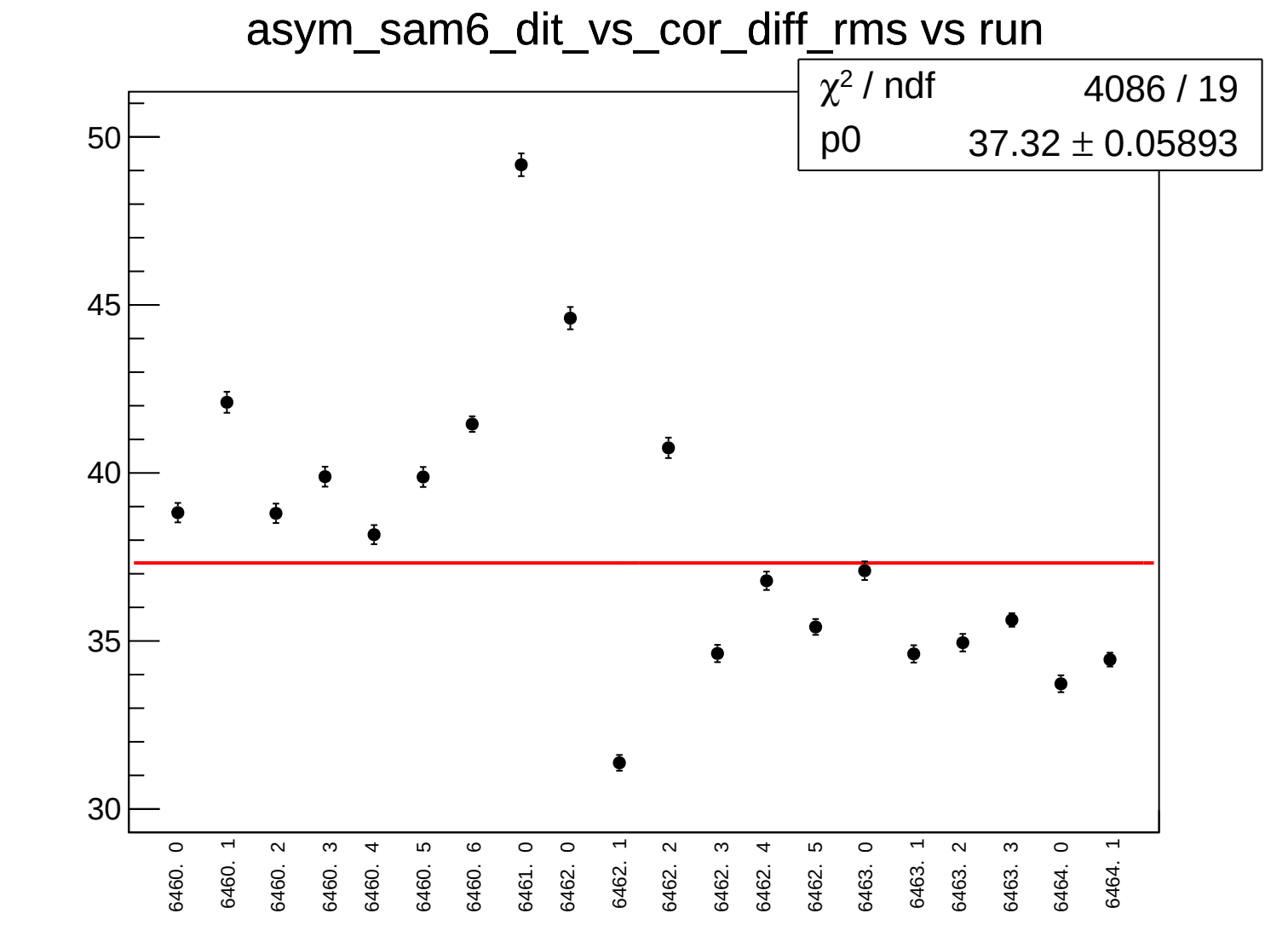

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 22.75 / 19
p0 −8.933e−14 ± 8.622e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.07182
Std Dev 1.064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

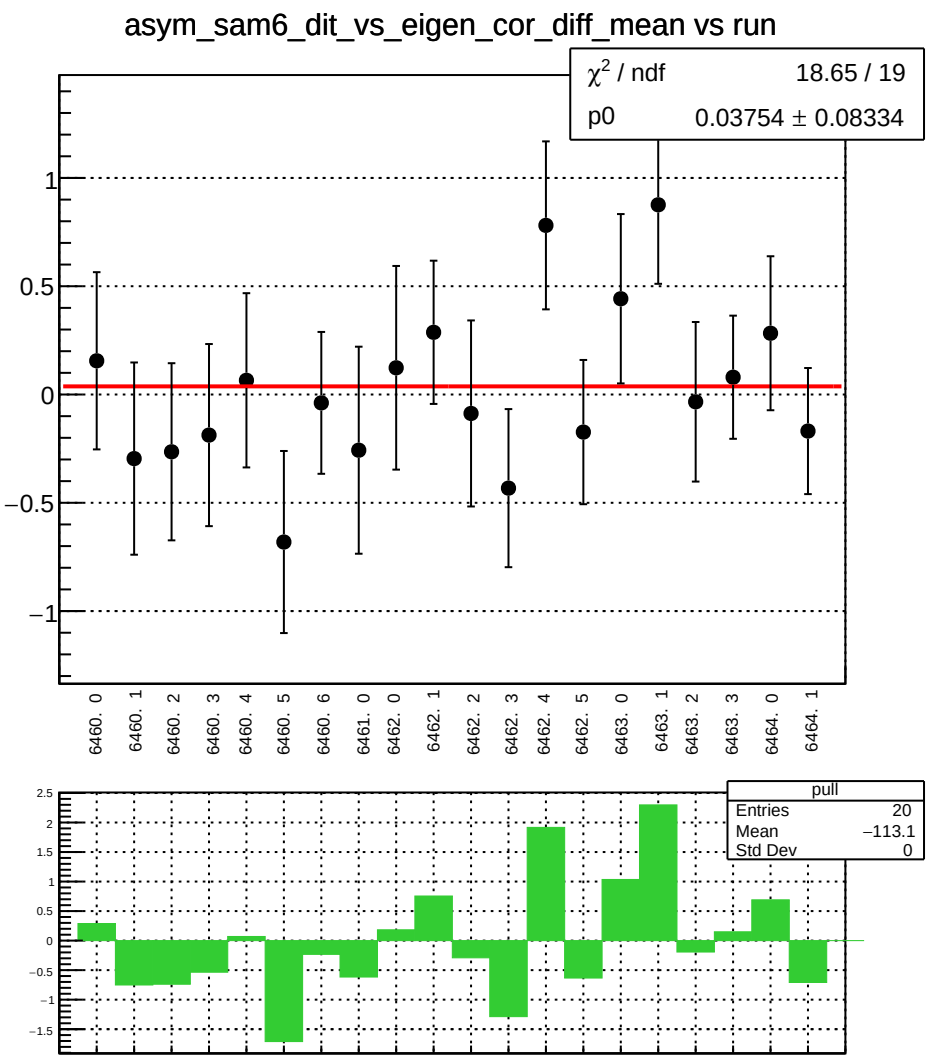

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 2.759e+05 / 19
p0 2.192e−11 ± 6.097e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

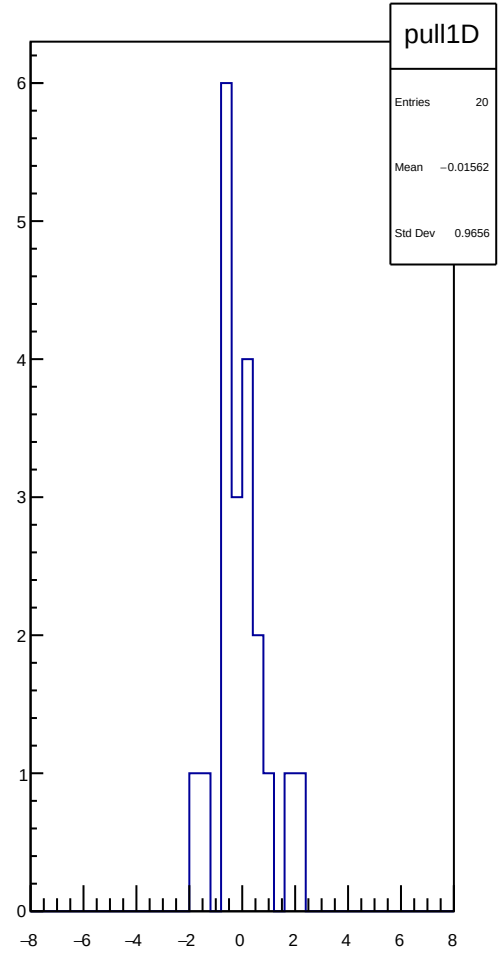

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 18.65 / 19
p0 0.03754 ± 0.08334
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

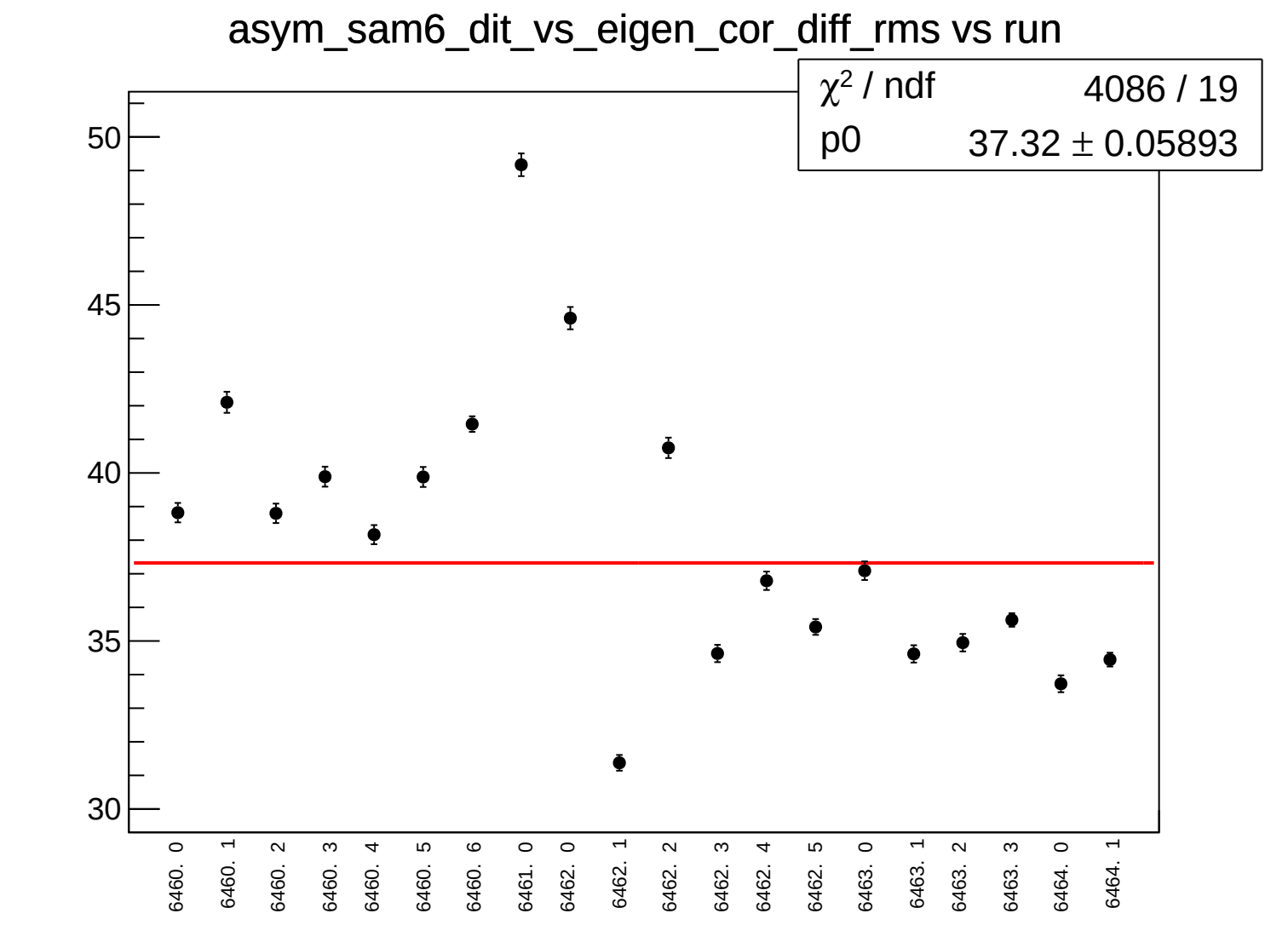

pull
Entries 20
Mean −113.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

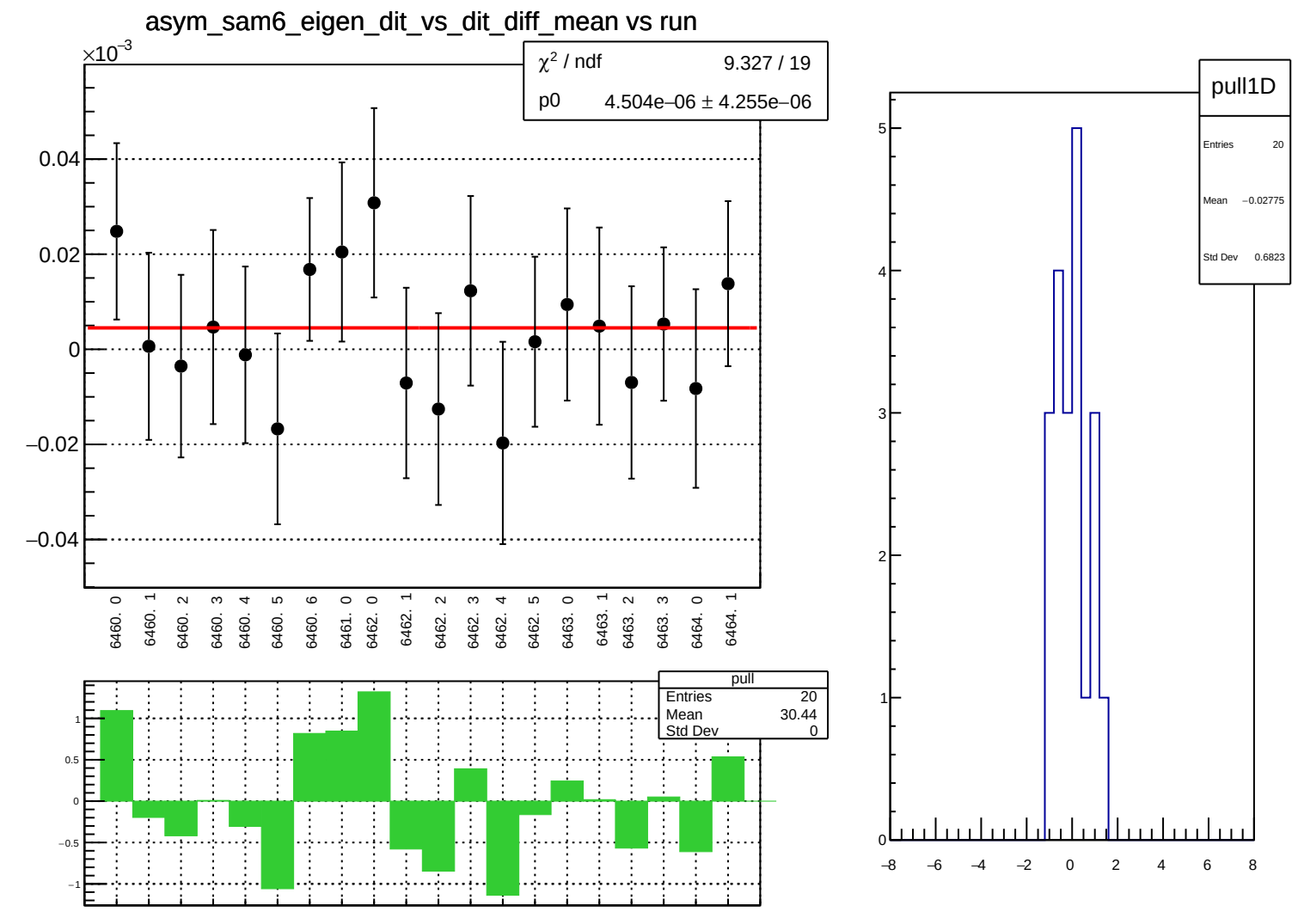

pull1D
Entries 20
Mean −0.01562
Std Dev 0.9656
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

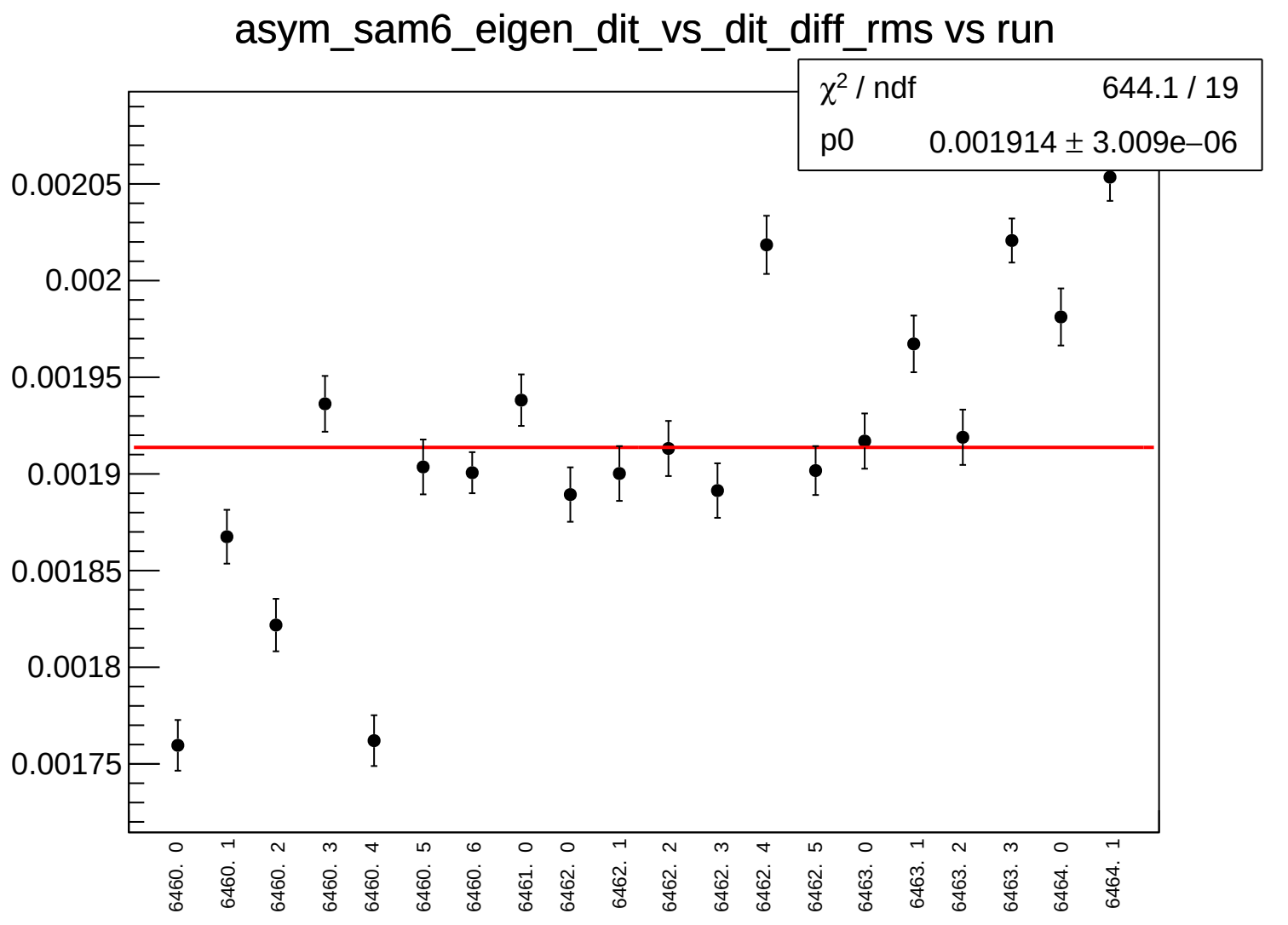

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 4086 / 19
p0 37.32 ± 0.05893
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

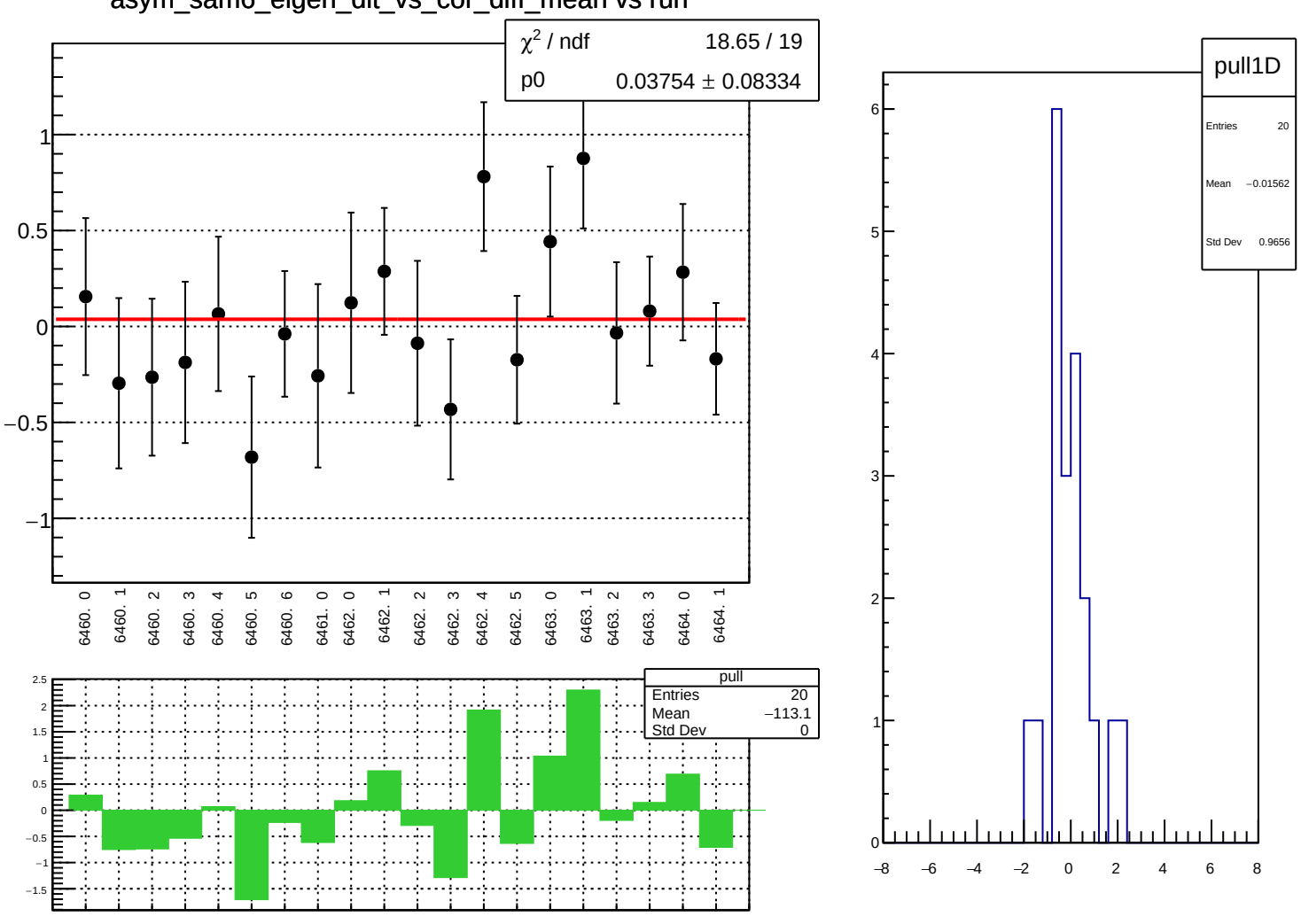

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.65 / 19
p0 0.03754 ± 0.08334
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −113.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

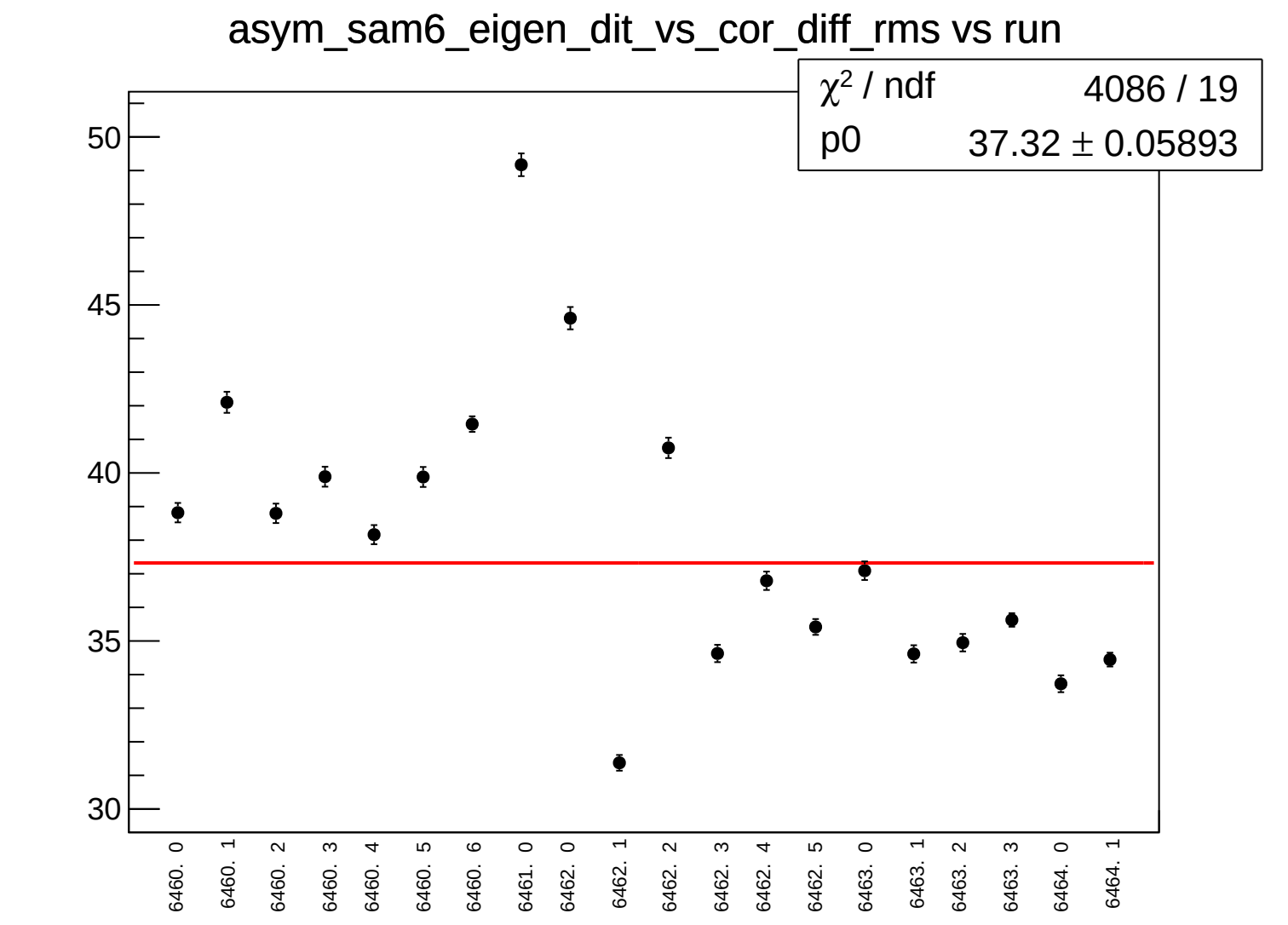

pull1D
Entries 20
Mean −0.01562
Std Dev 0.9656
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

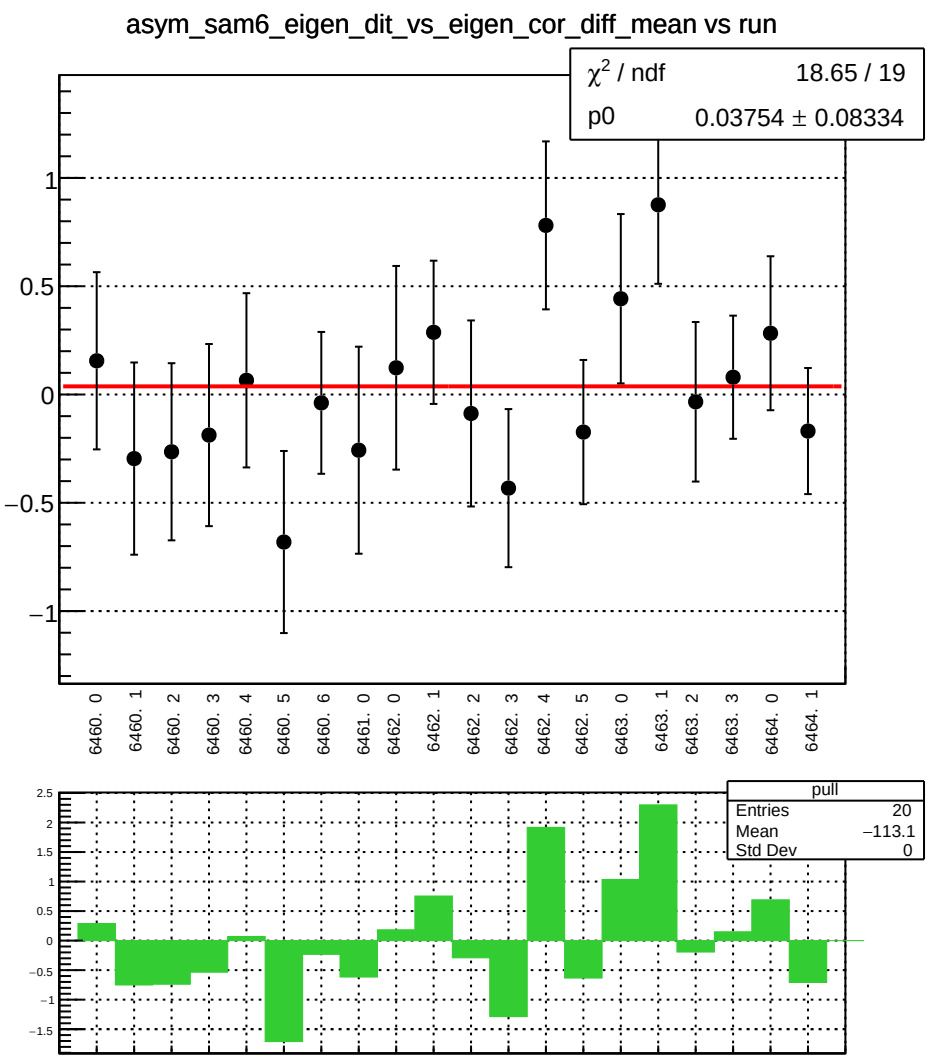

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4086 / 19
p0 37.32 ± 0.05893
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

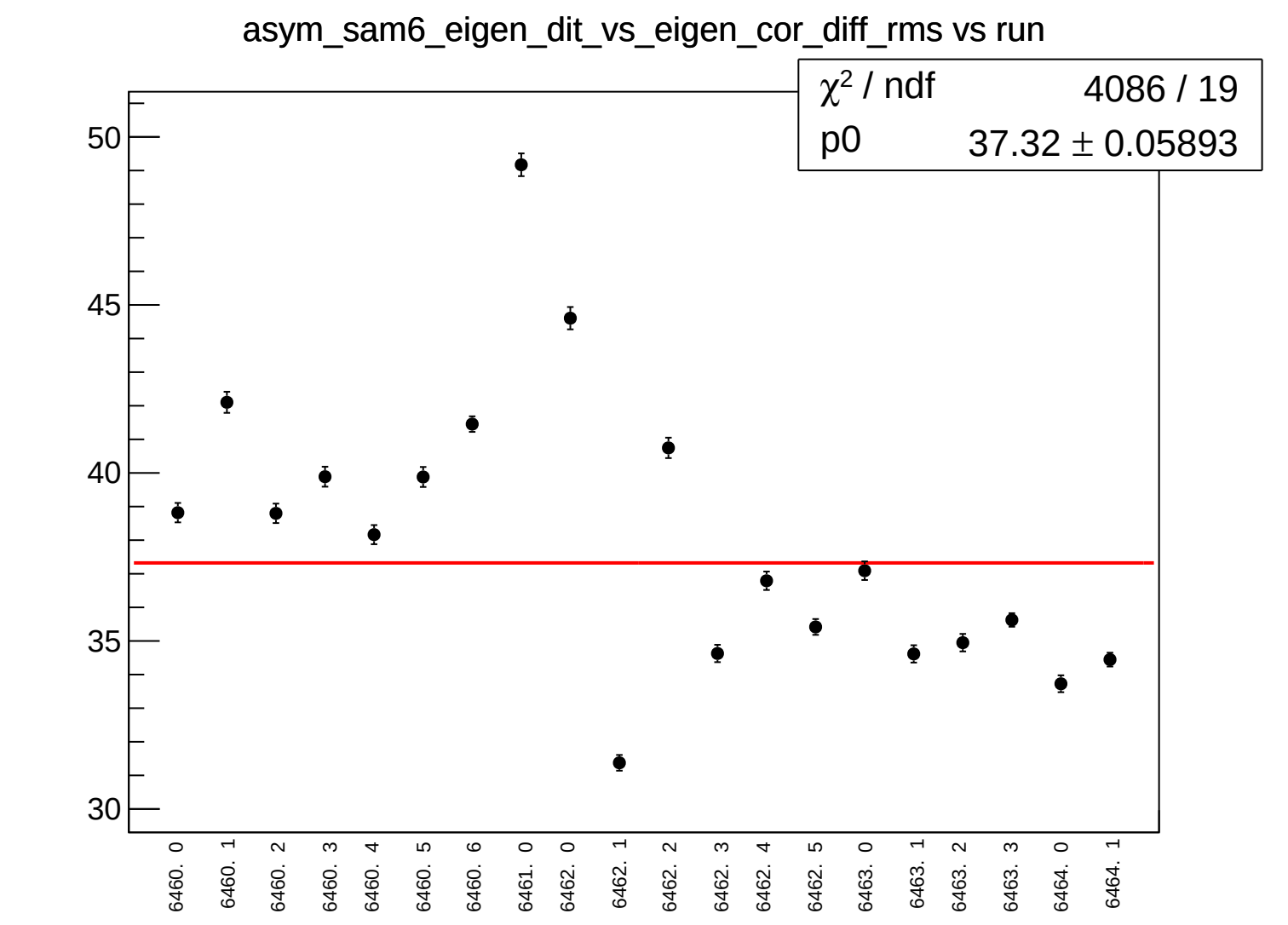

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 9.327 / 19
p0 4.504e−06 ± 4.255e−06
0.04
0.02
0
−0.02
−0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.44
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02775
Std Dev 0.6823
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

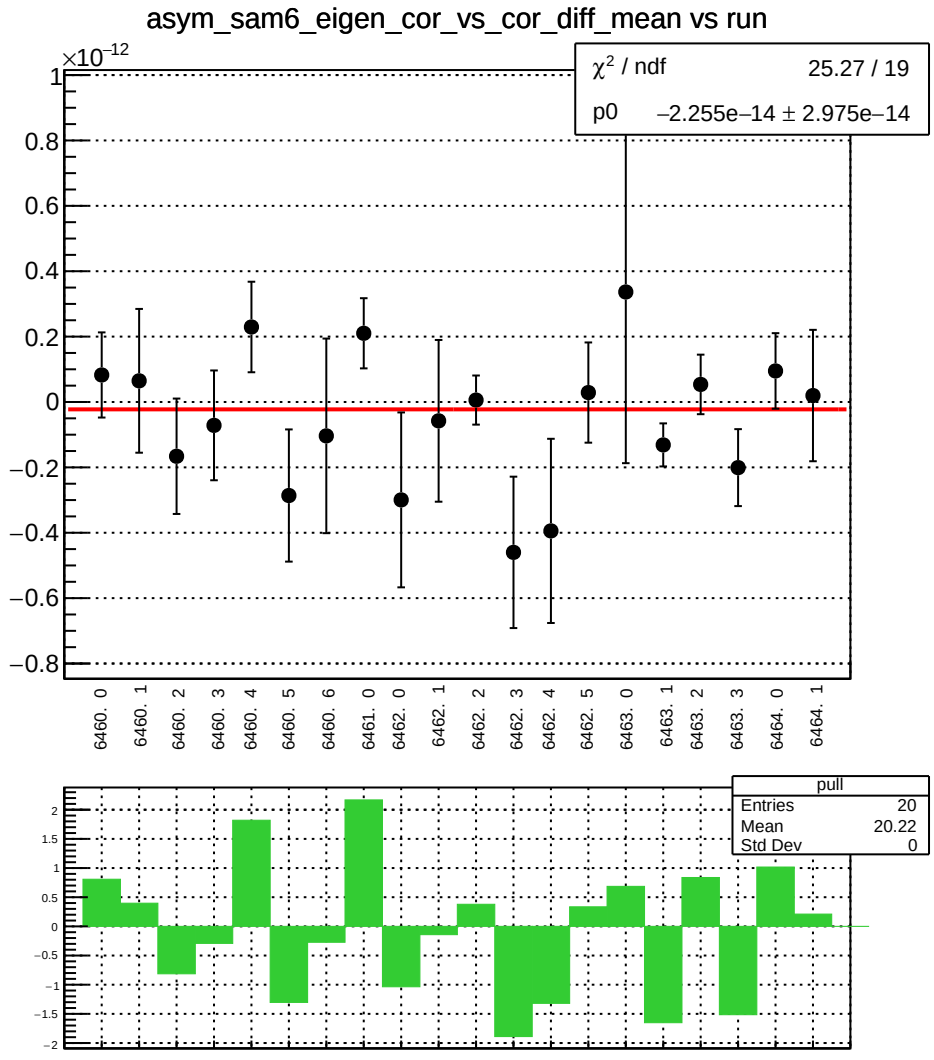

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 644.1 / 19
p0 0.001914 ± 3.009e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

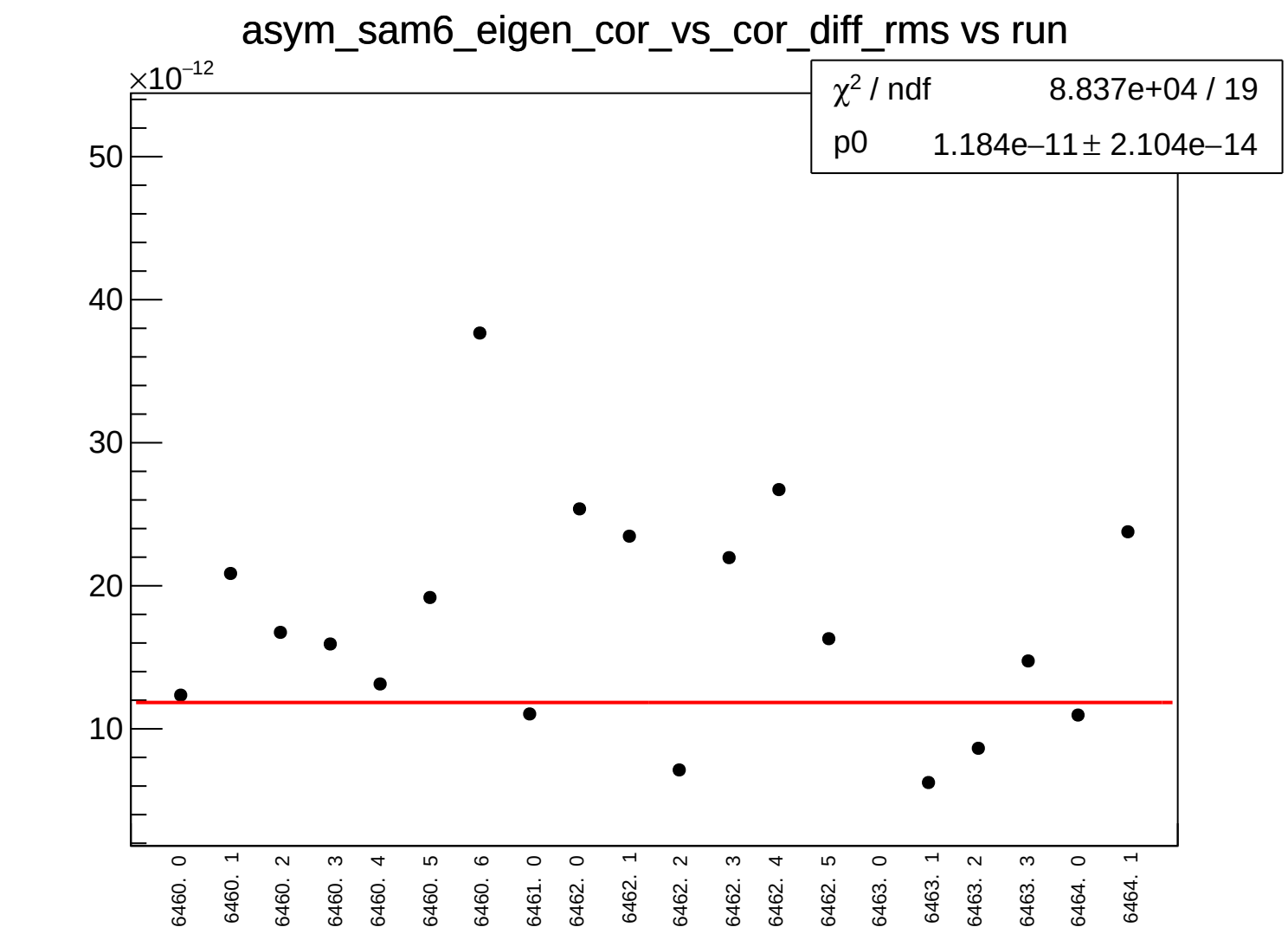

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.65 / 19
p0 0.03754 ± 0.08334
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −113.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01562
Std Dev 0.9656
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

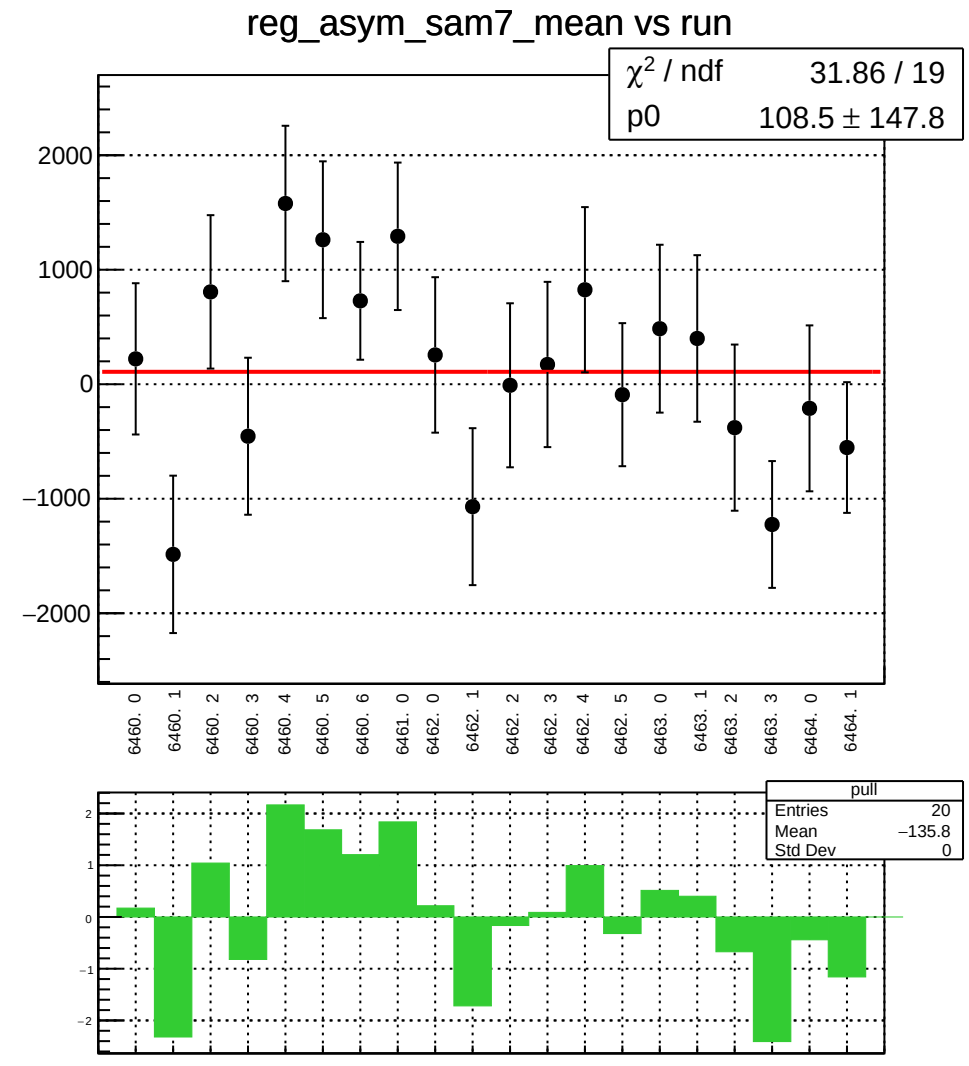

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4086 / 19
p0 37.32 ± 0.05893
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

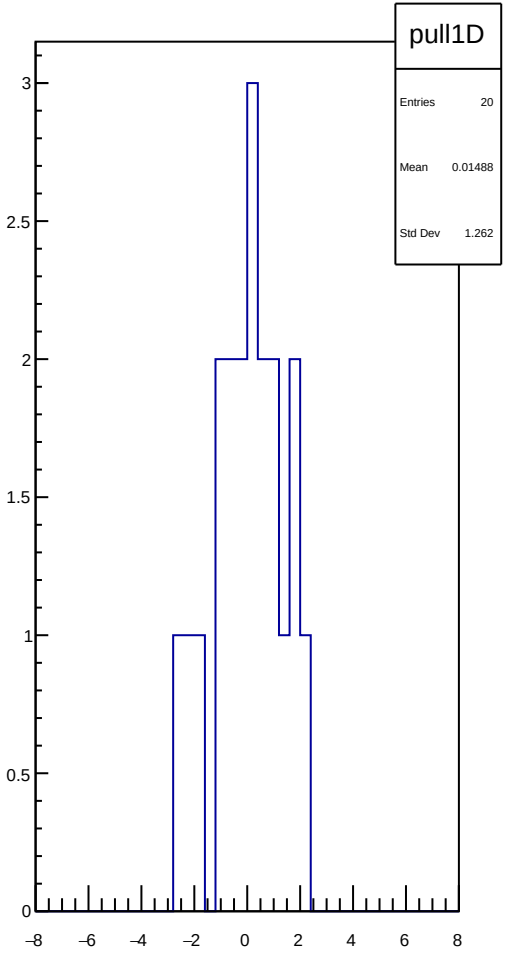

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.65 / 19
p0 0.03754 ± 0.08334
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −113.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01562
Std Dev 0.9656
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

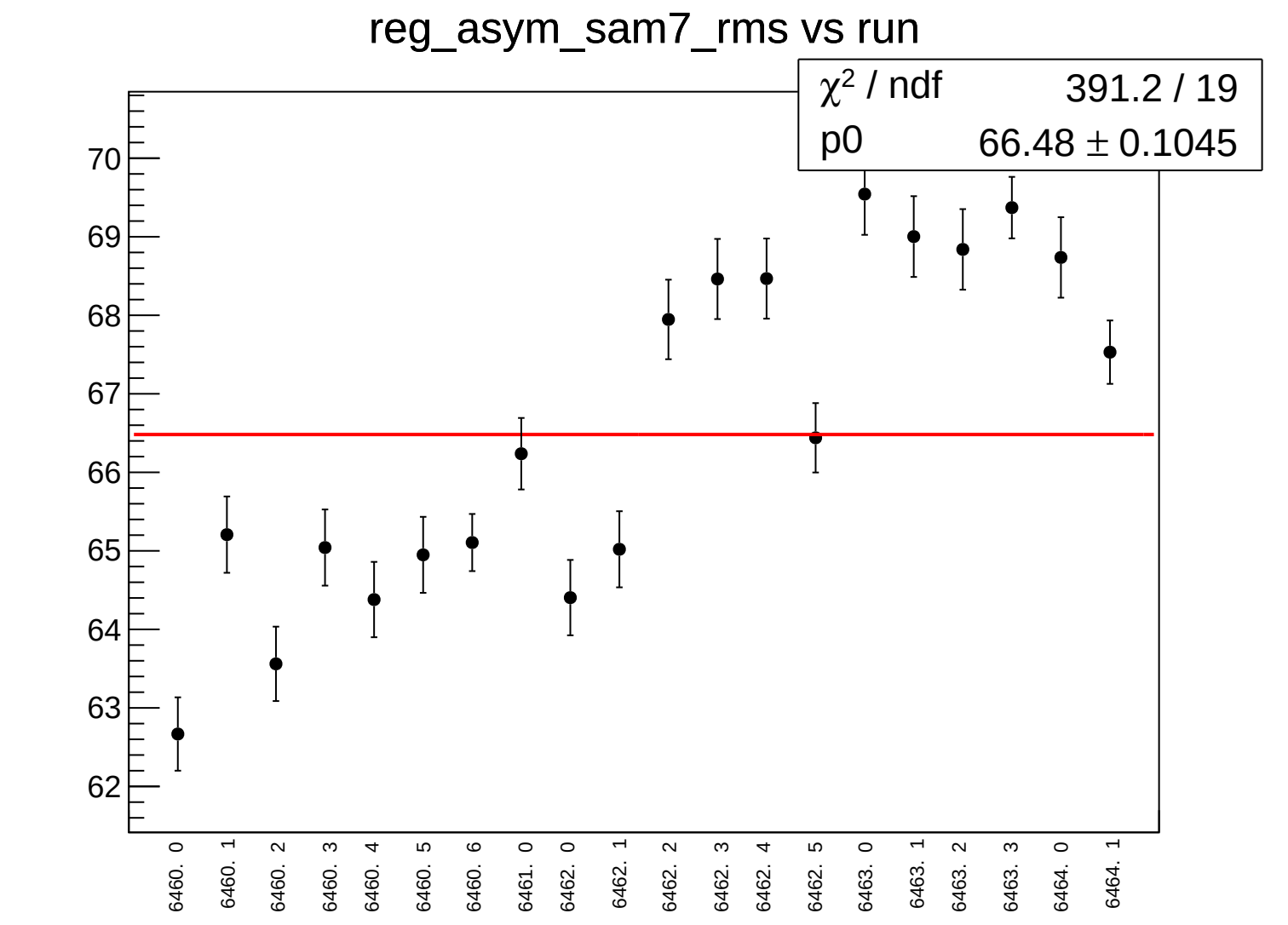

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4086 / 19
p0 37.32 ± 0.05893
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

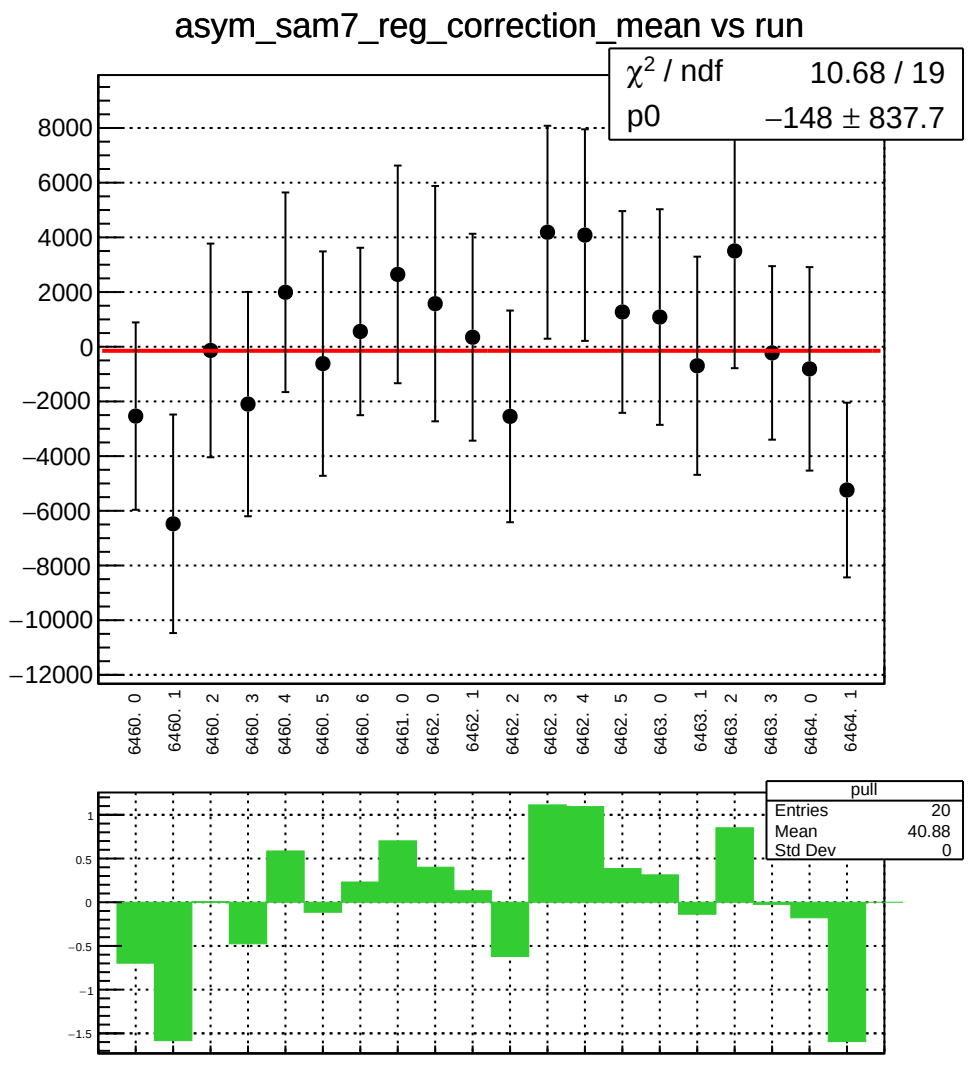

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.27 / 19
p0 −2.255e−14 ± 2.975e−14
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 20.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.07868
Std Dev 1.121
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

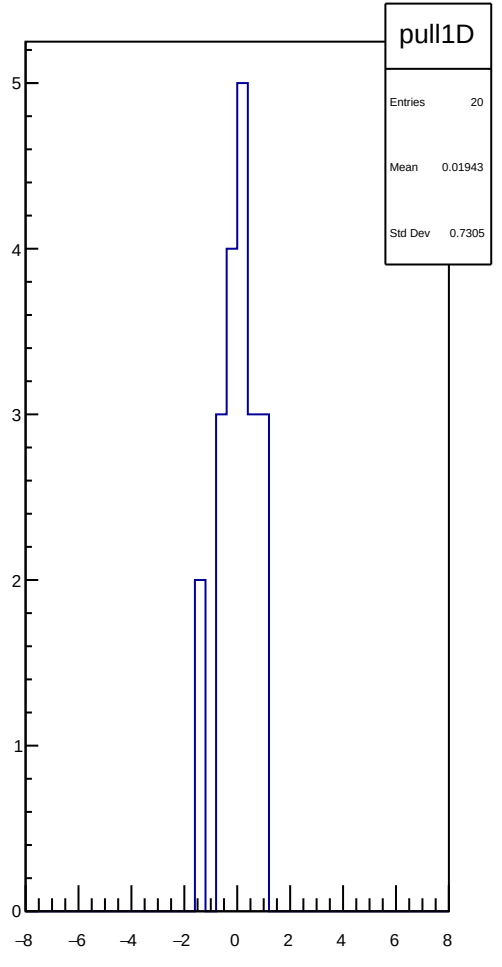

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.837e+04 / 19
p0 1.184e−11 ± 2.104e−14
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

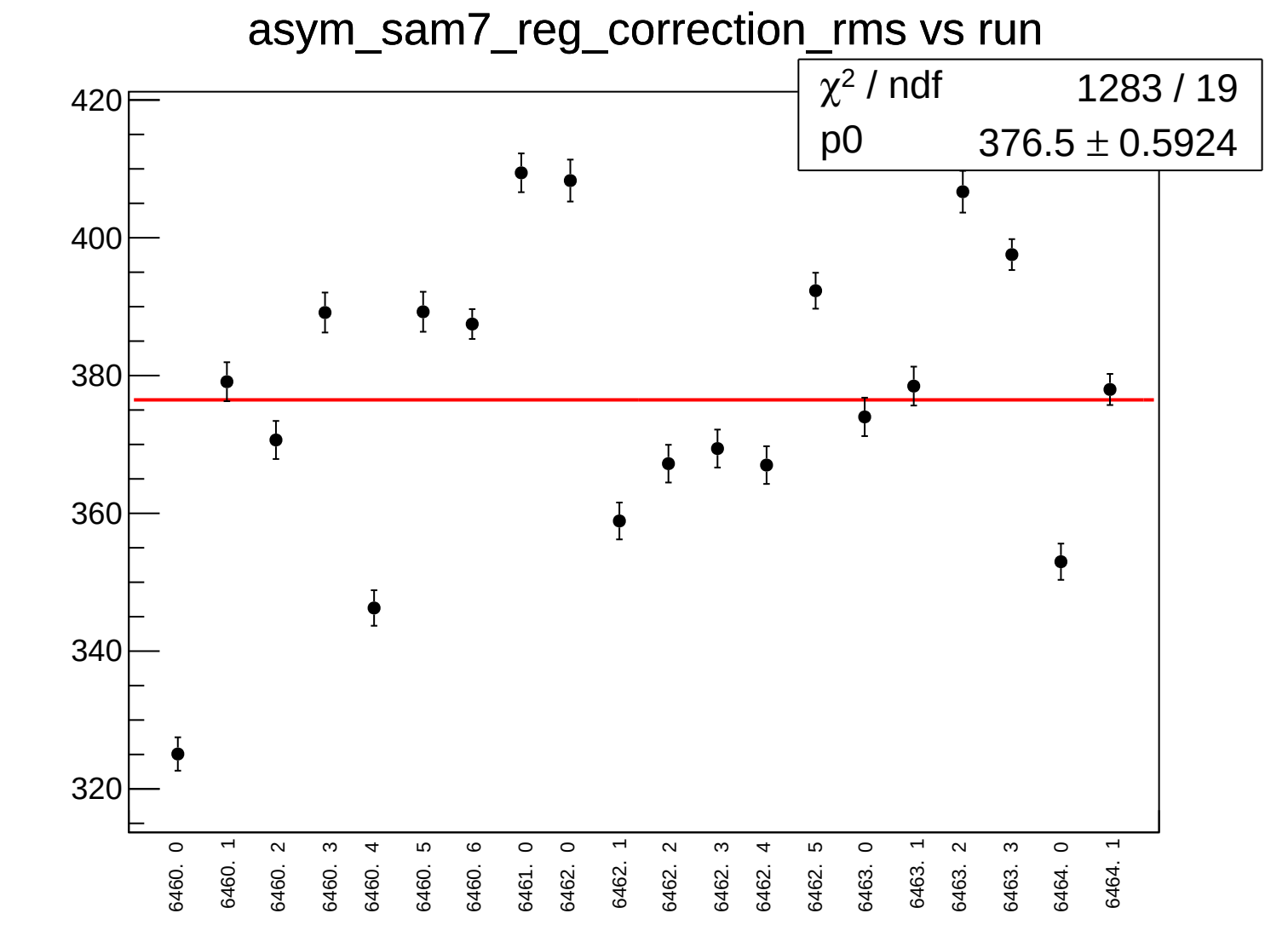

reg_asym_sam7_mean vs run
χ² / ndf 31.86 / 19
p0 108.5 ± 147.8
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −135.8
Std Dev 0
2
1
0
−1
−2

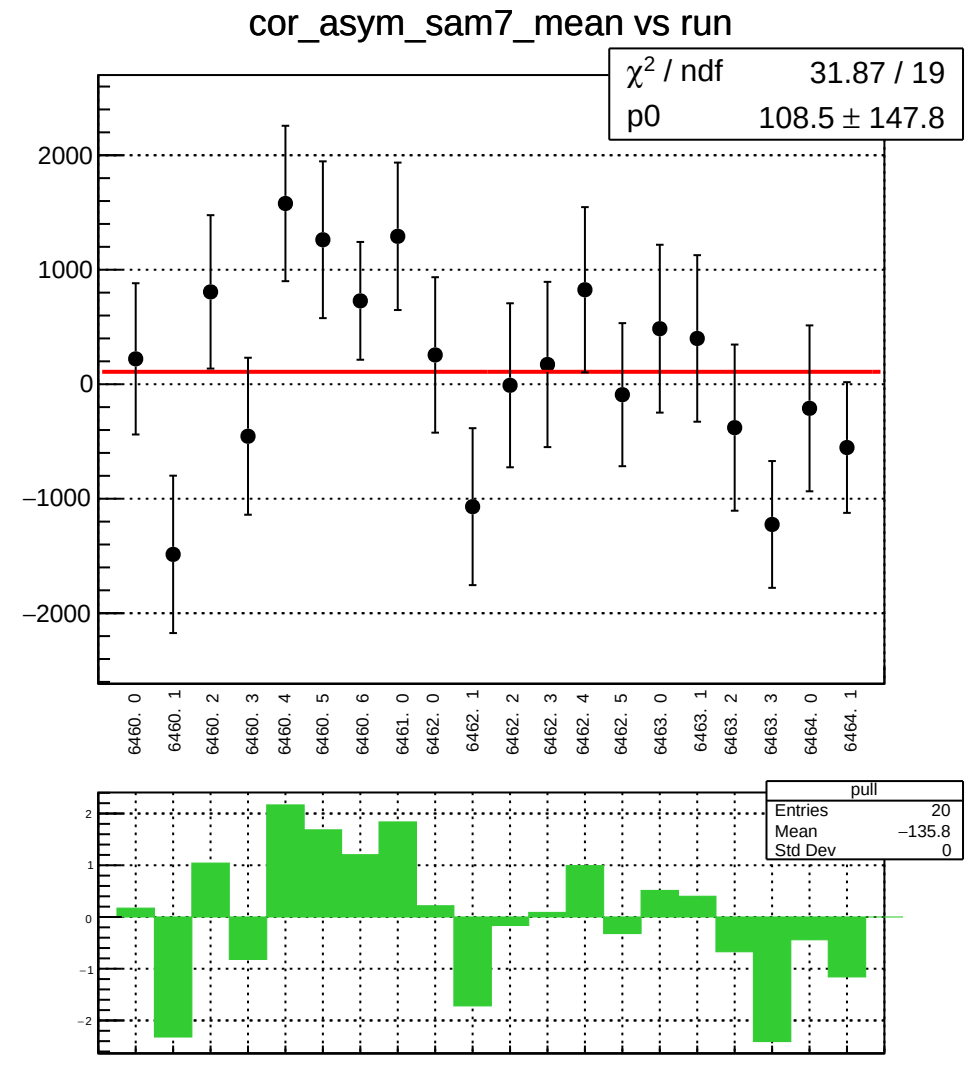

pull1D
Entries 20
Mean 0.01488
Std Dev 1.262
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

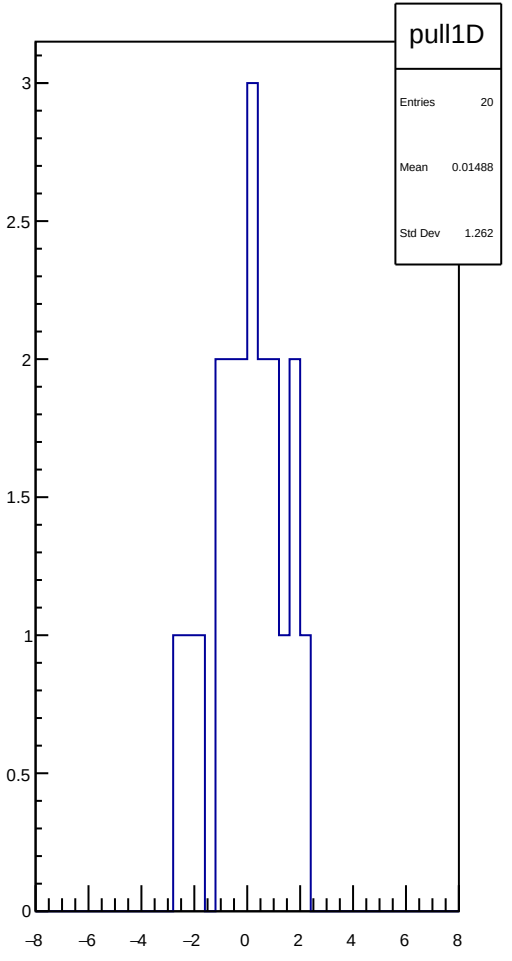

reg_asym_sam7_rms vs run
χ² / ndf 391.2 / 19
p0 66.48 ± 0.1045
70
69
68
67
66
65
64
63
62
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

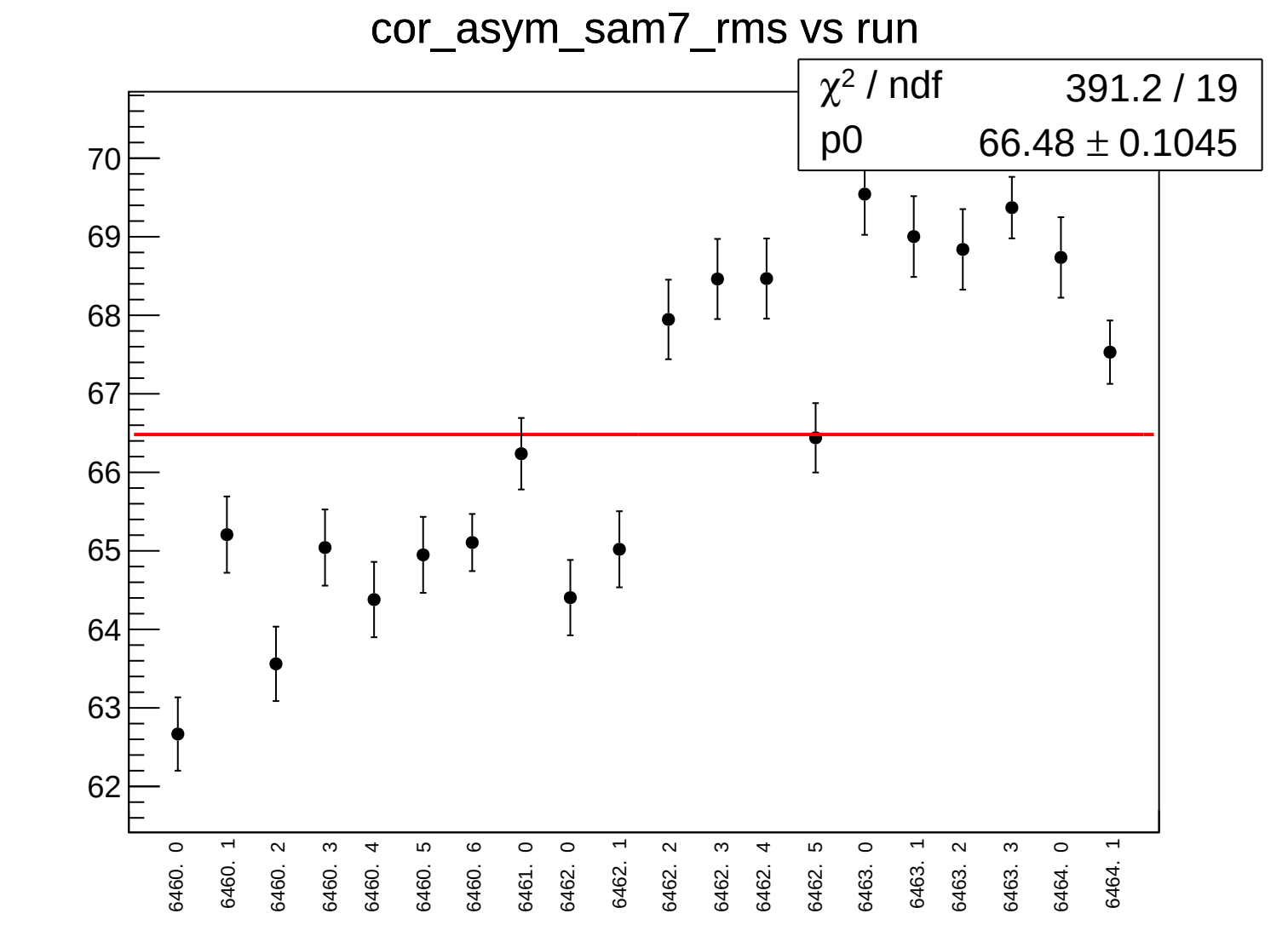

asym_sam7_reg_correction_mean vs run
χ² / ndf 10.68 / 19
p0 −148 ± 837.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 40.88
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

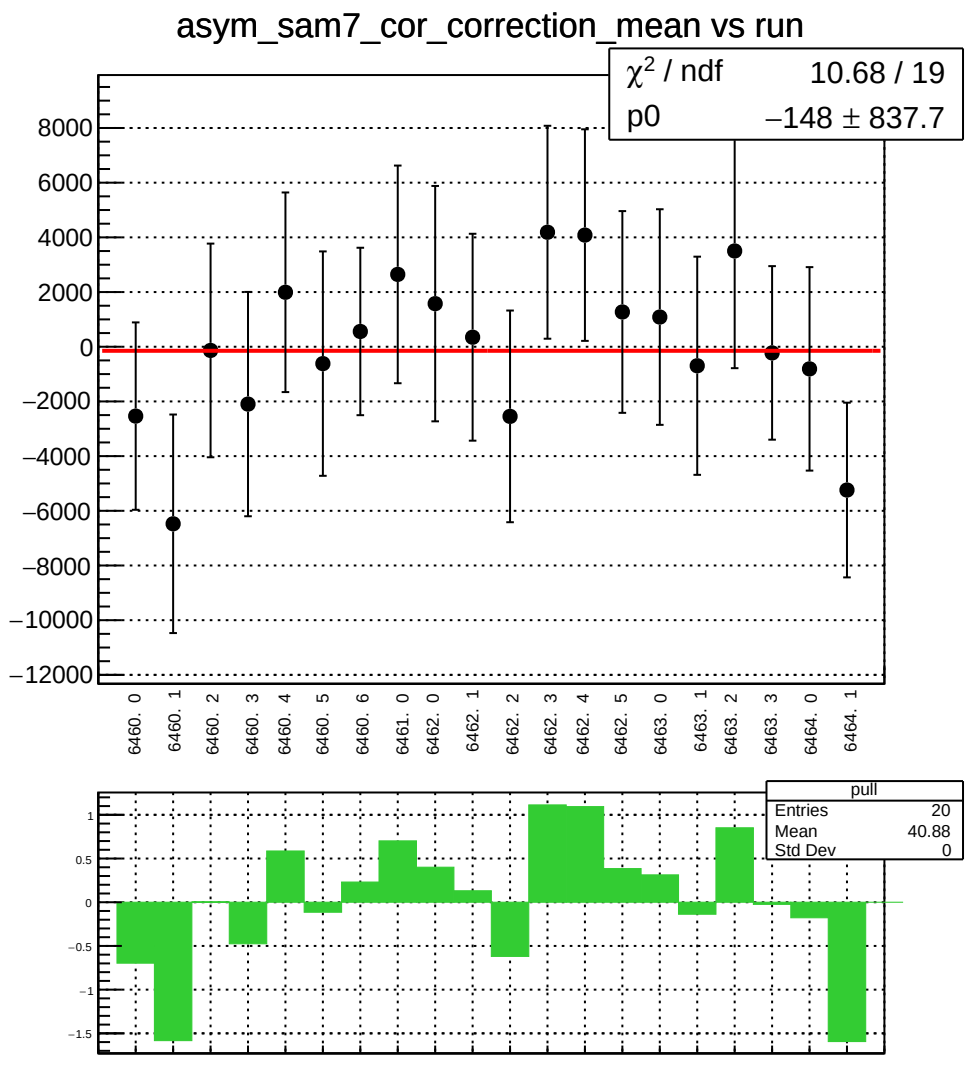

pull1D
Entries 20
Mean 0.01943
Std Dev 0.7305
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

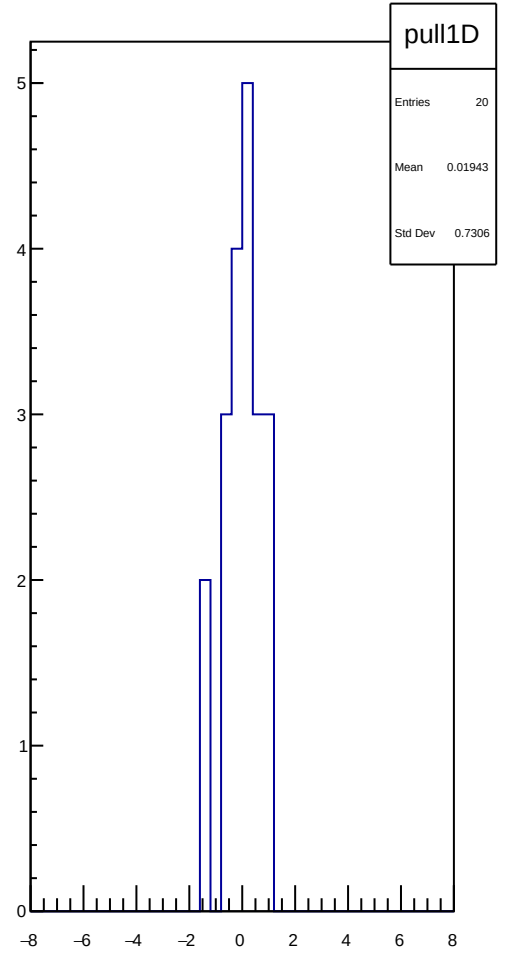

asym_sam7_reg_correction_rms vs run
χ² / ndf 1283 / 19
p0 376.5 ± 0.5924
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

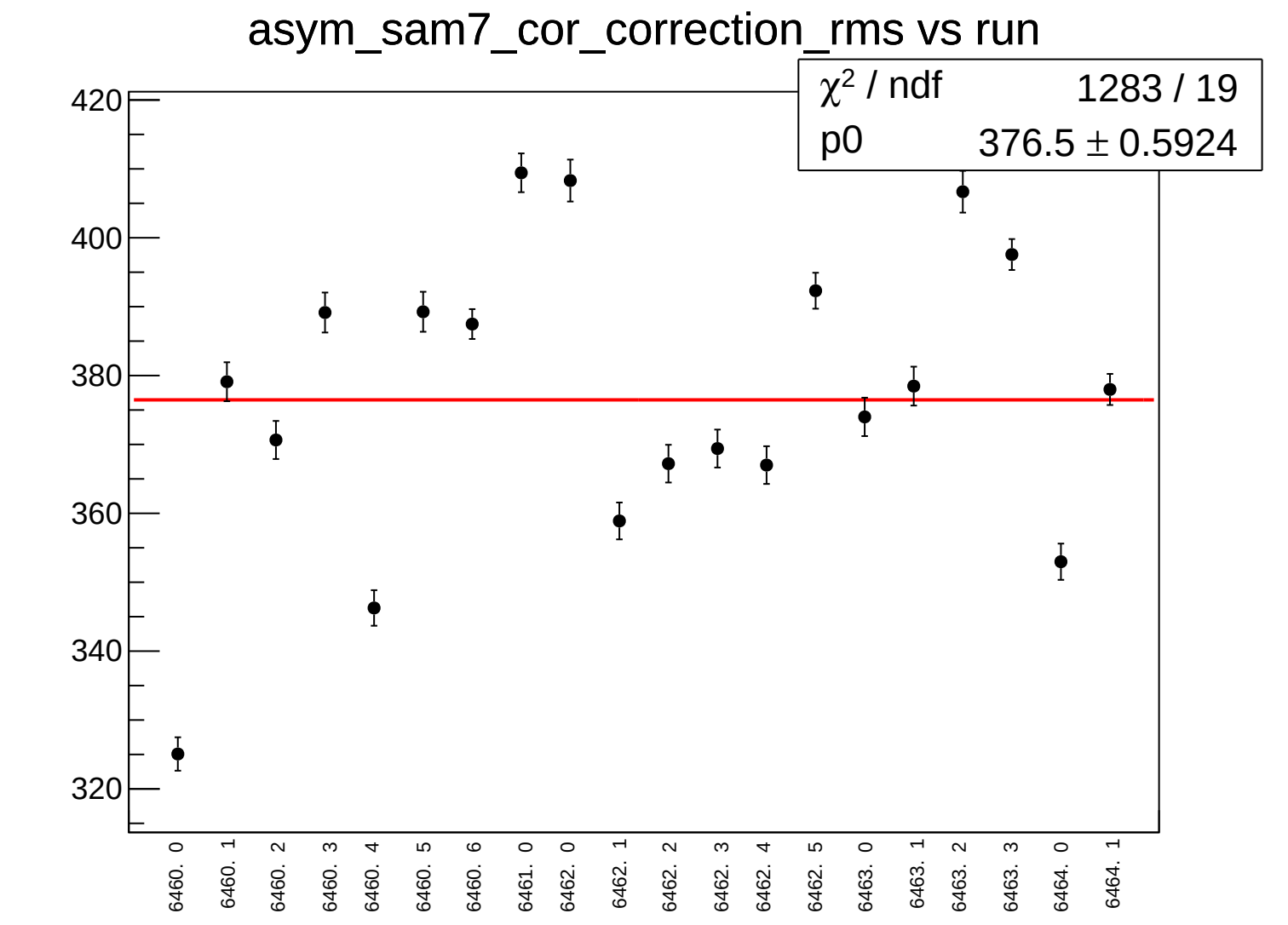

cor_asym_sam7_mean vs run
χ² / ndf 31.87 / 19
p0 108.5 ± 147.8
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −135.8
Std Dev 0
2
1
0
−1
−2

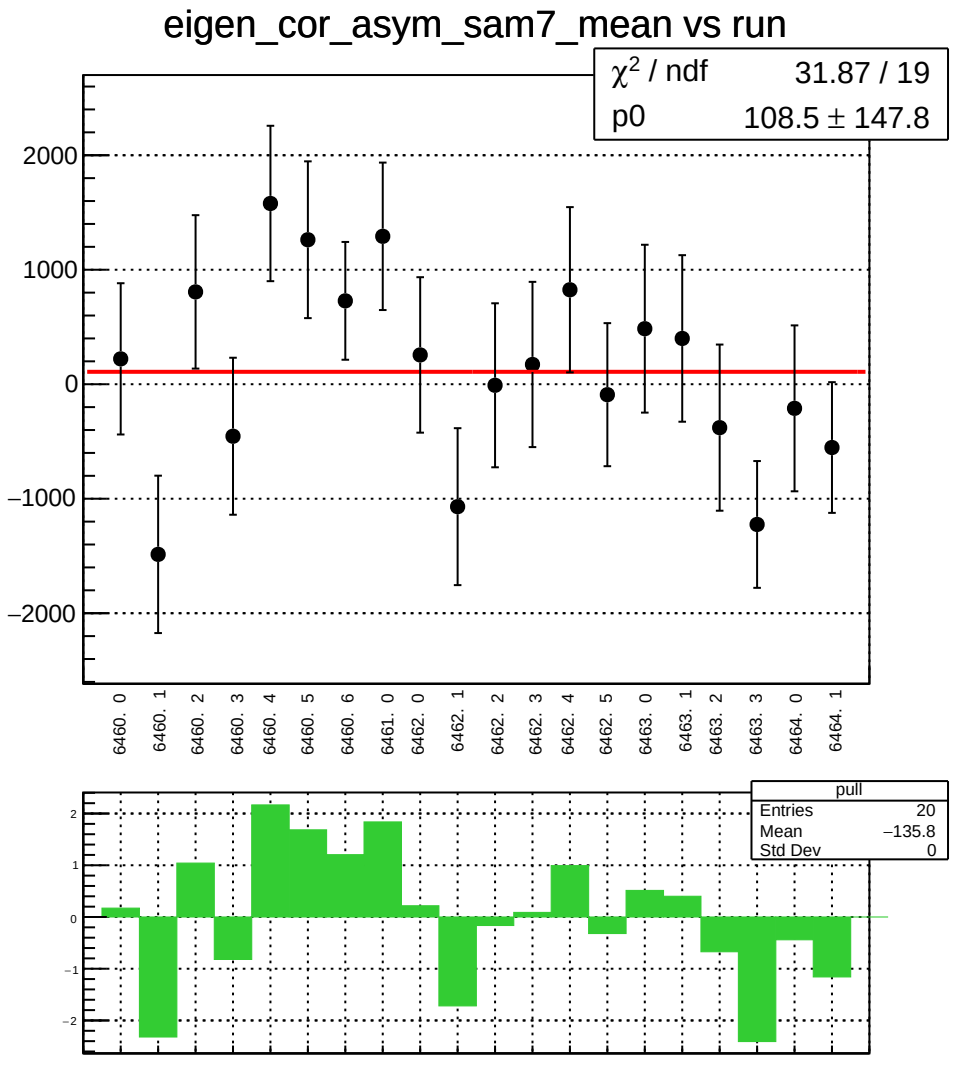

pull1D
Entries 20
Mean 0.01488
Std Dev 1.262
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

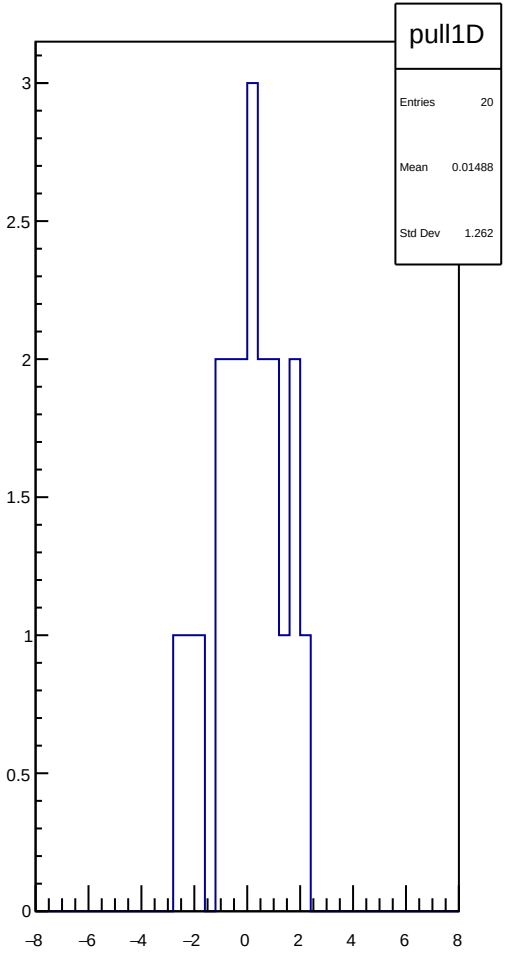

cor_asym_sam7_rms vs run
χ² / ndf 391.2 / 19
p0 66.48 ± 0.1045
70
69
68
67
66
65
64
63
62
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

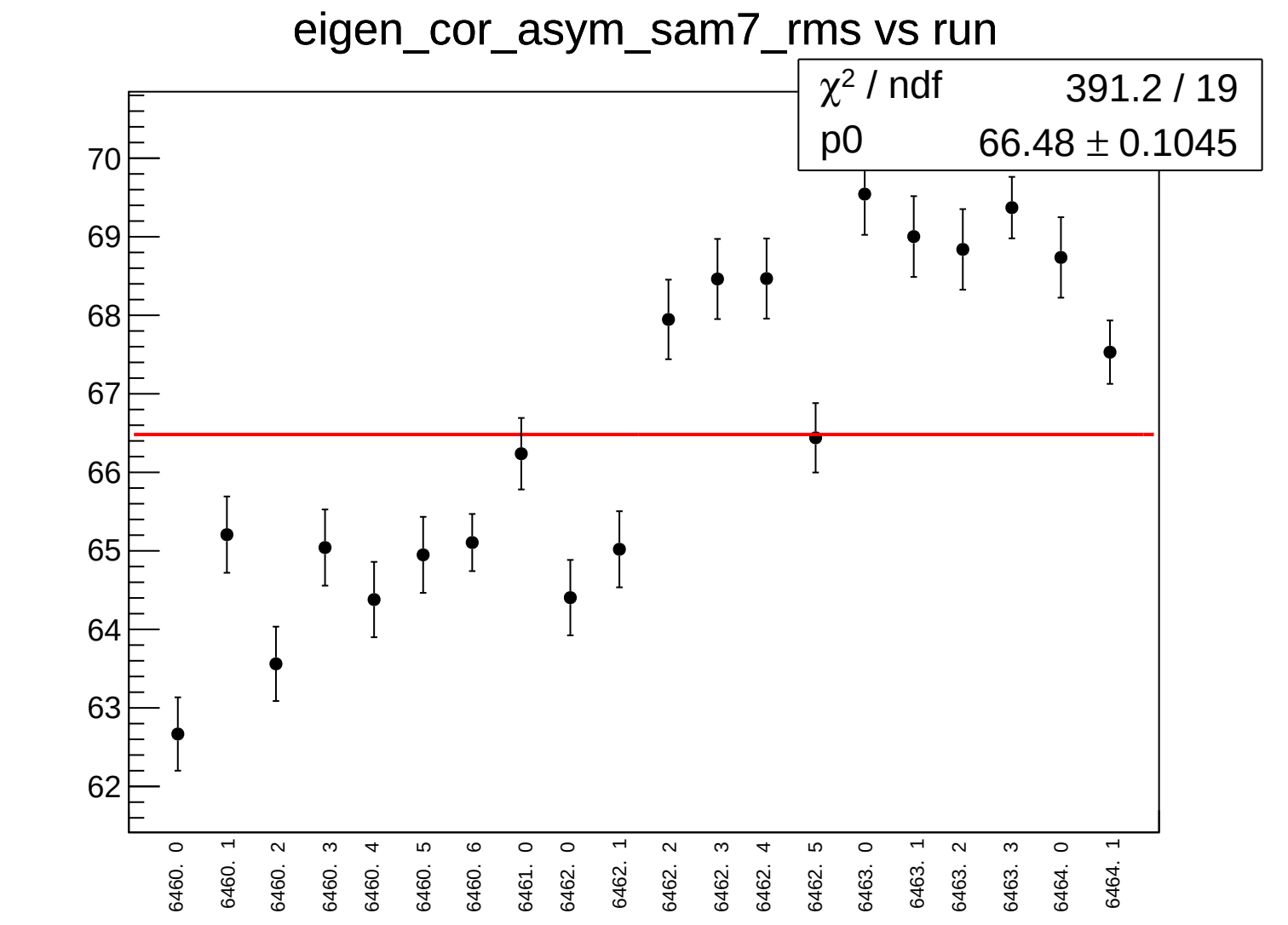

asym_sam7_cor_correction_mean vs run
χ² / ndf 10.68 / 19
p0 −148 ± 837.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 40.88
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

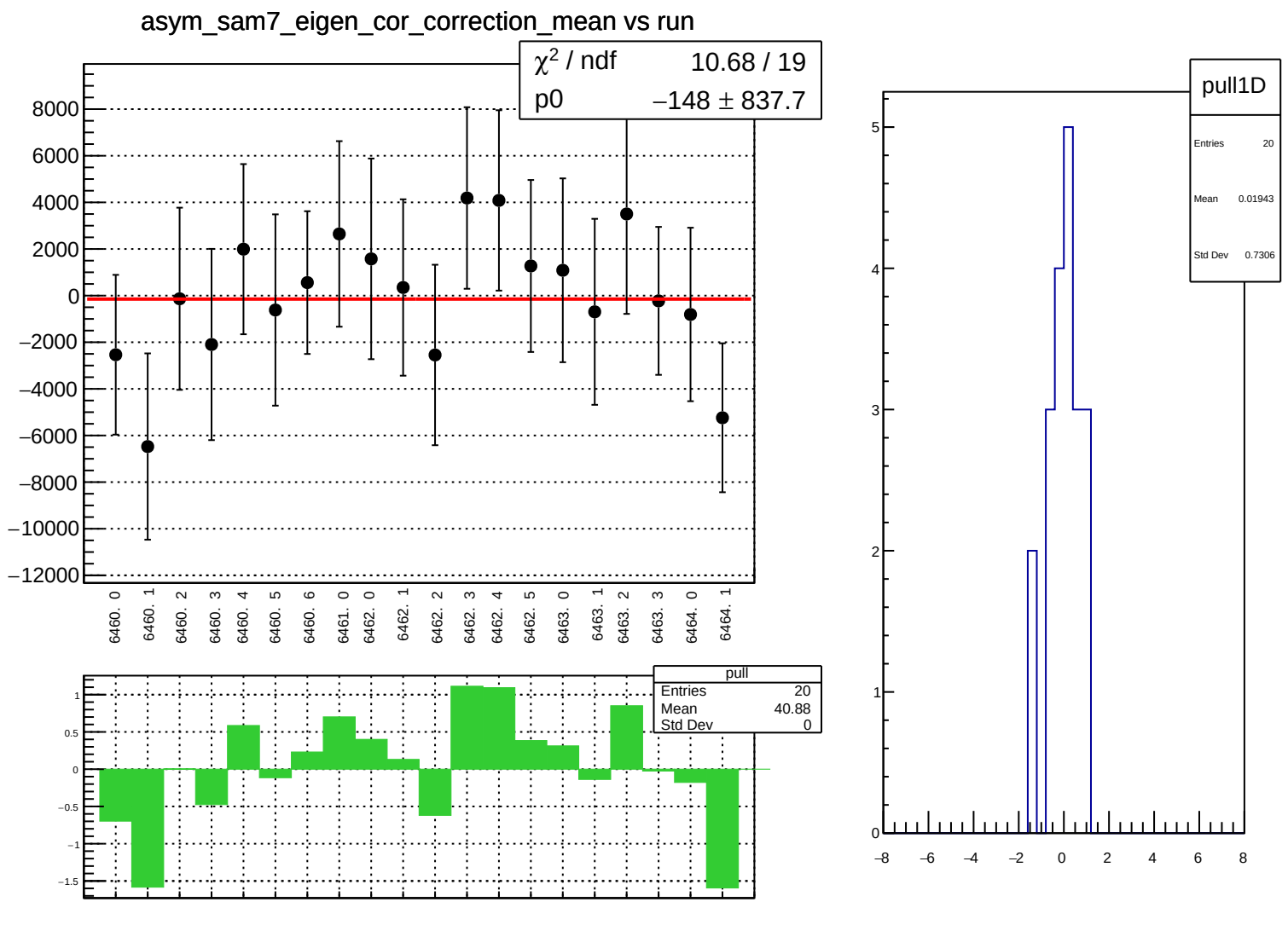

pull1D
Entries 20
Mean 0.01943
Std Dev 0.7306
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

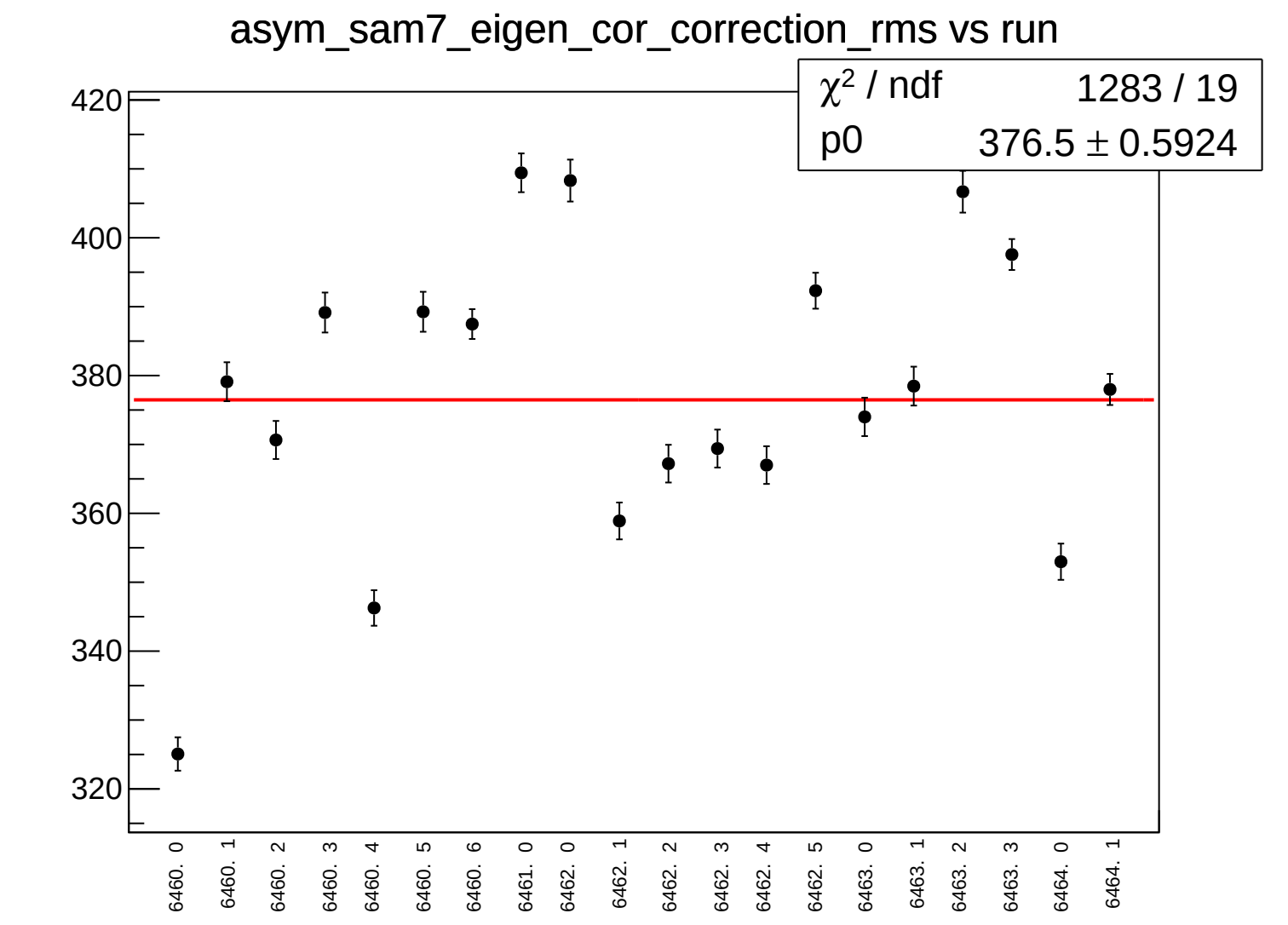

asym_sam7_cor_correction_rms vs run
χ² / ndf 1283 / 19
p0 376.5 ± 0.5924
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

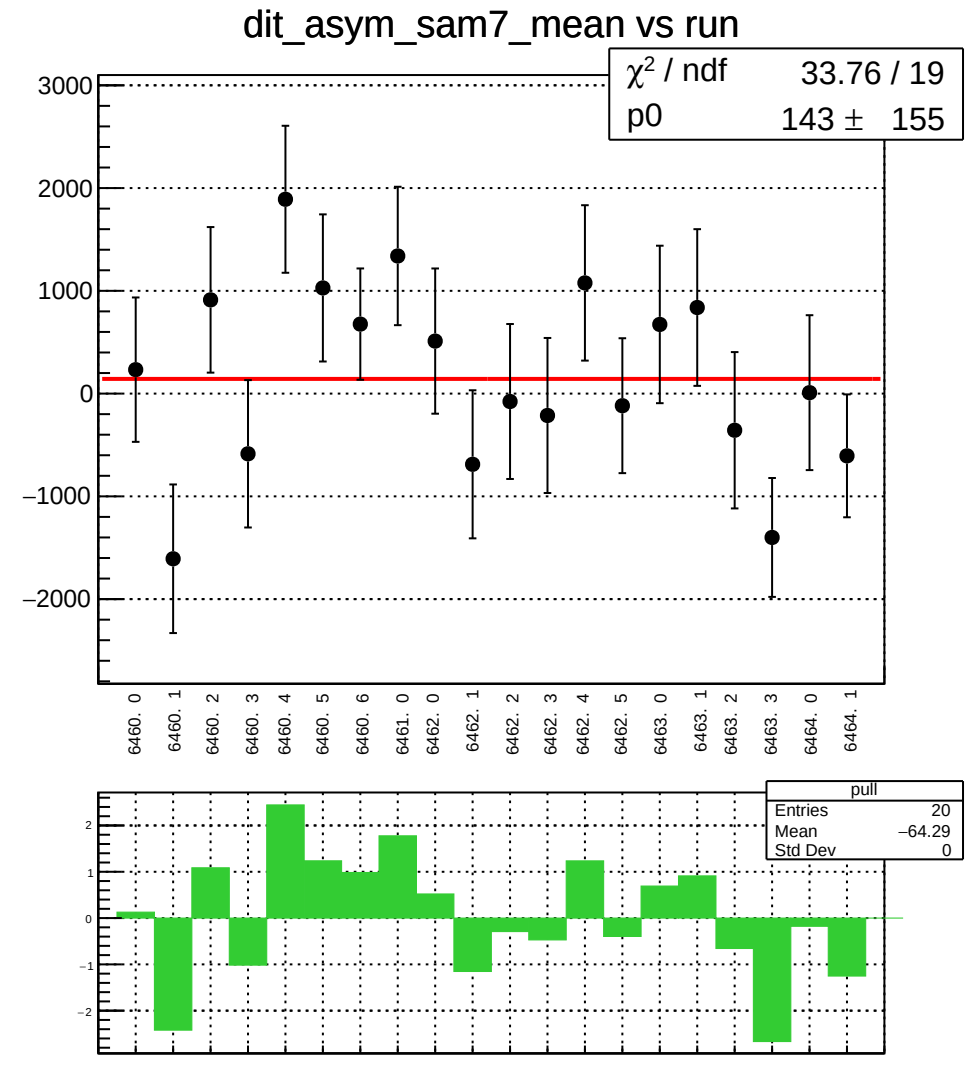

eigen_cor_asym_sam7_mean vs run
χ² / ndf 31.87 / 19
p0 108.5 ± 147.8
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −135.8
Std Dev 0
2
1
0
−1
−2

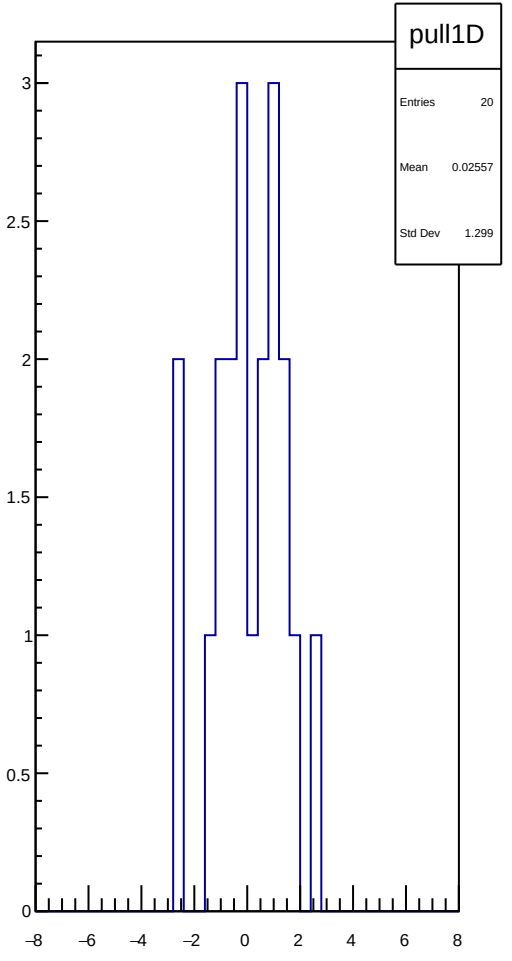

pull1D
Entries 20
Mean 0.01488
Std Dev 1.262
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

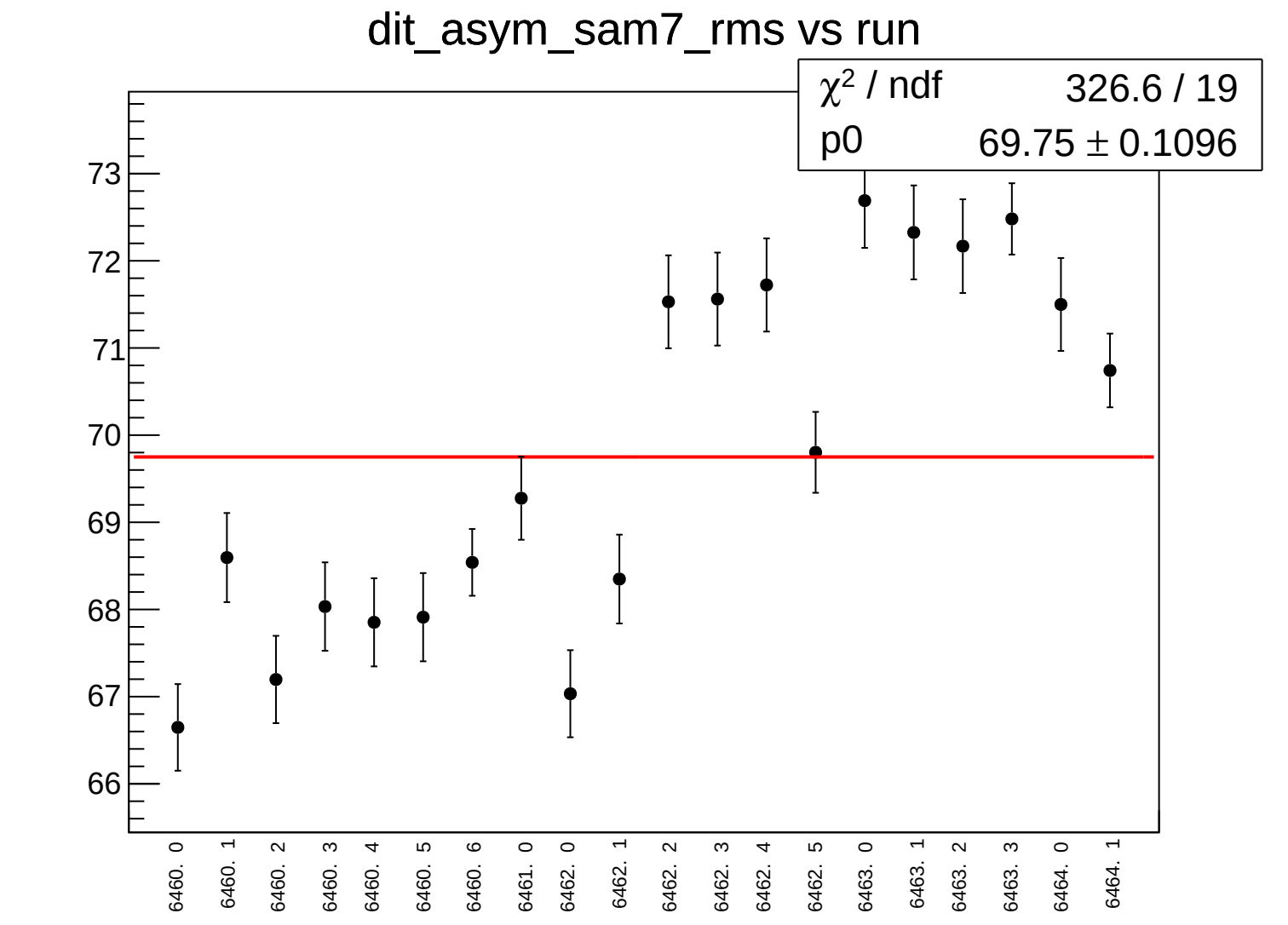

eigen_cor_asym_sam7_rms vs run
χ² / ndf 391.2 / 19
p0 66.48 ± 0.1045
70
69
68
67
66
65
64
63
62
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

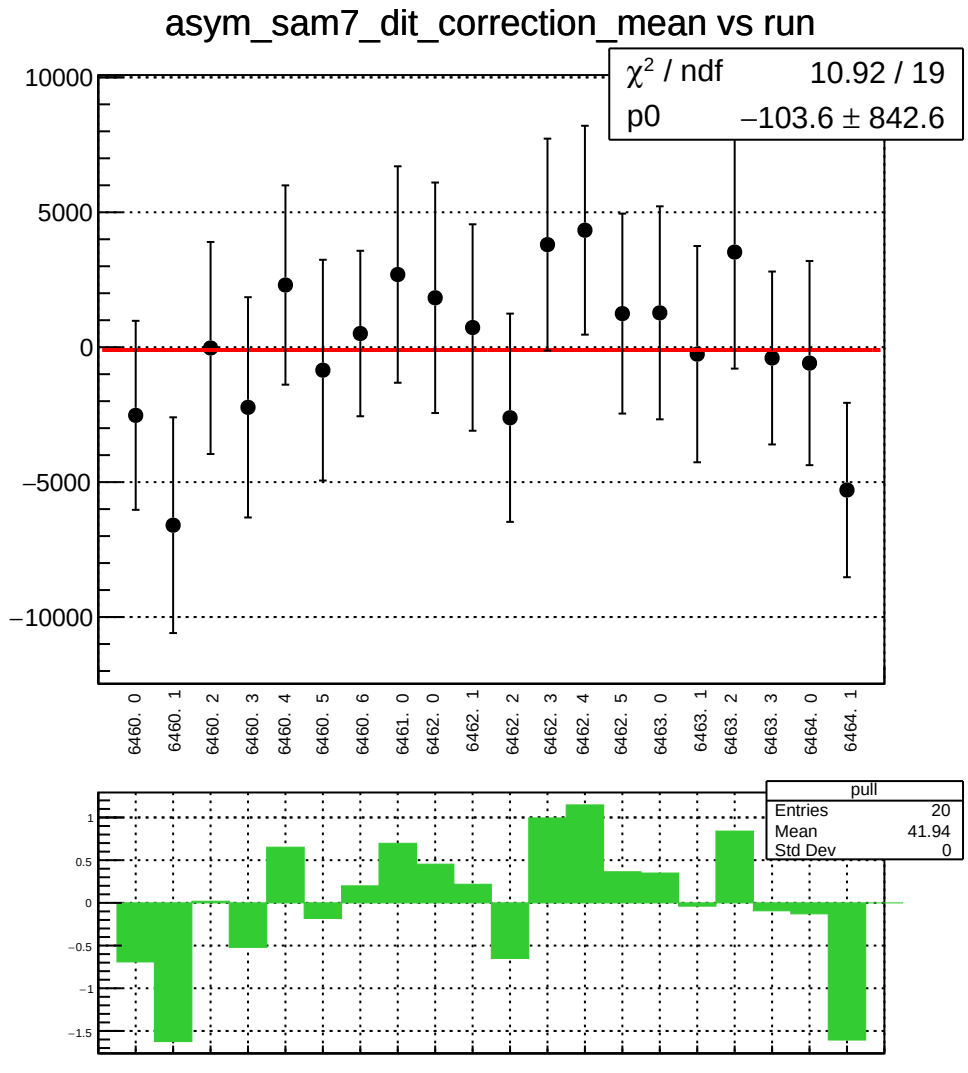

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 10.68 / 19
p0 −148 ± 837.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 40.88
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01943
Std Dev 0.7306
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

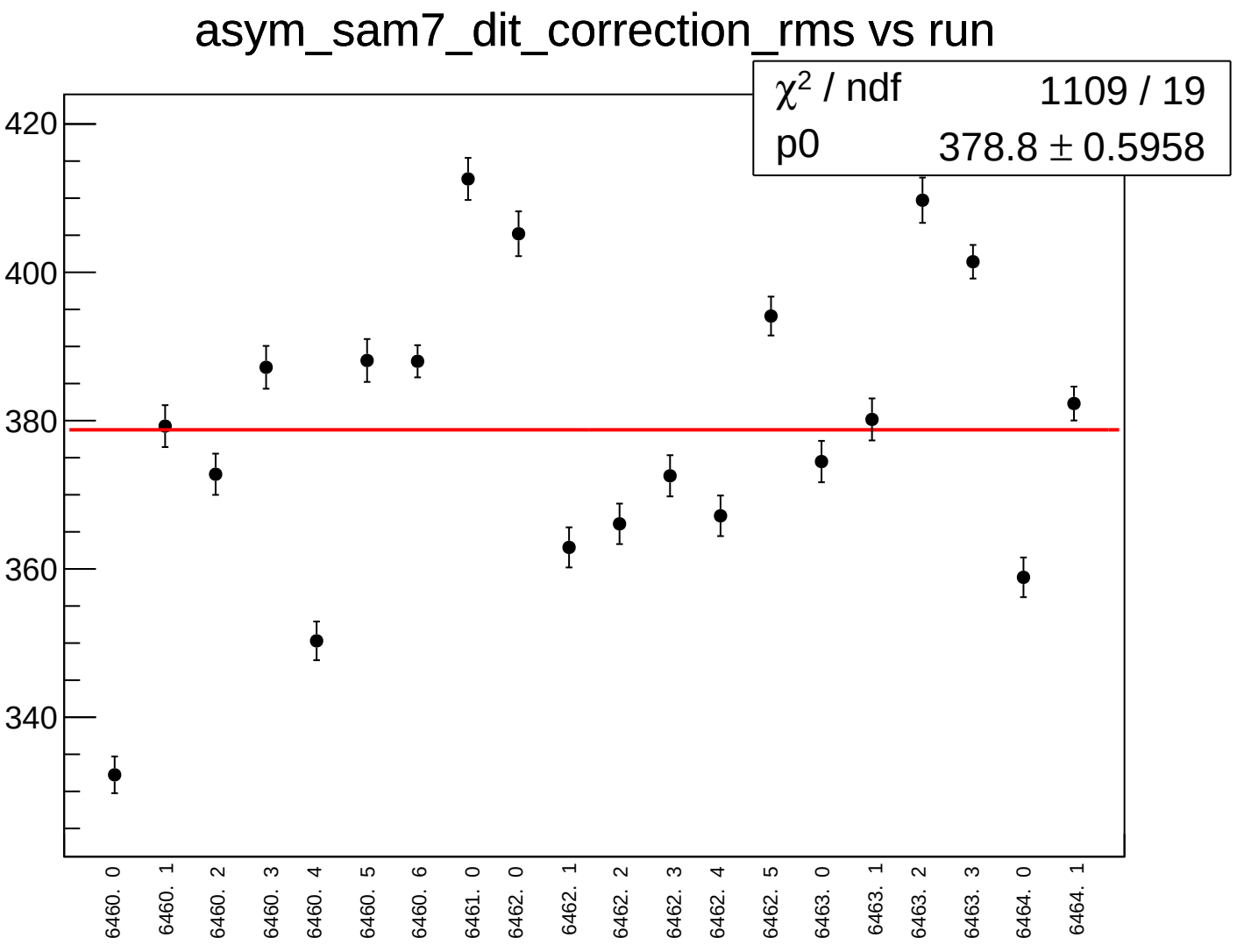

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1283 / 19
p0 376.5 ± 0.5924
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

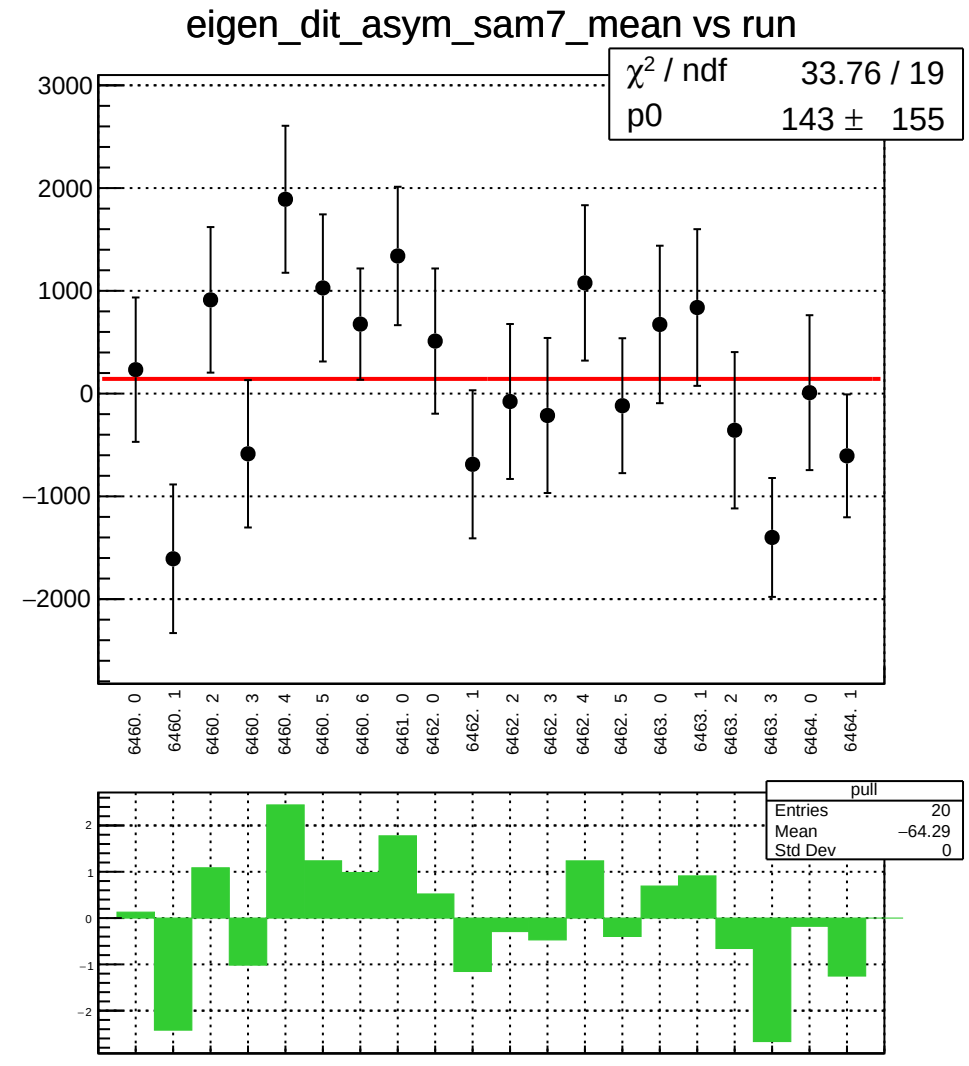

dit_asym_sam7_mean vs run
χ² / ndf 33.76 / 19
p0 143 ± 155
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −64.29
Std Dev 0
2
1
0
−1
−2

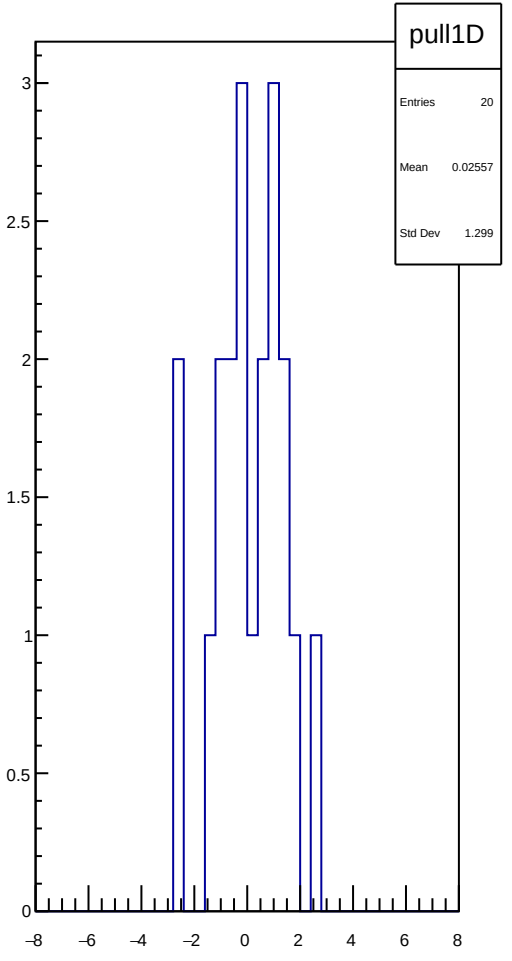

pull1D
Entries 20
Mean 0.02557
Std Dev 1.299
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

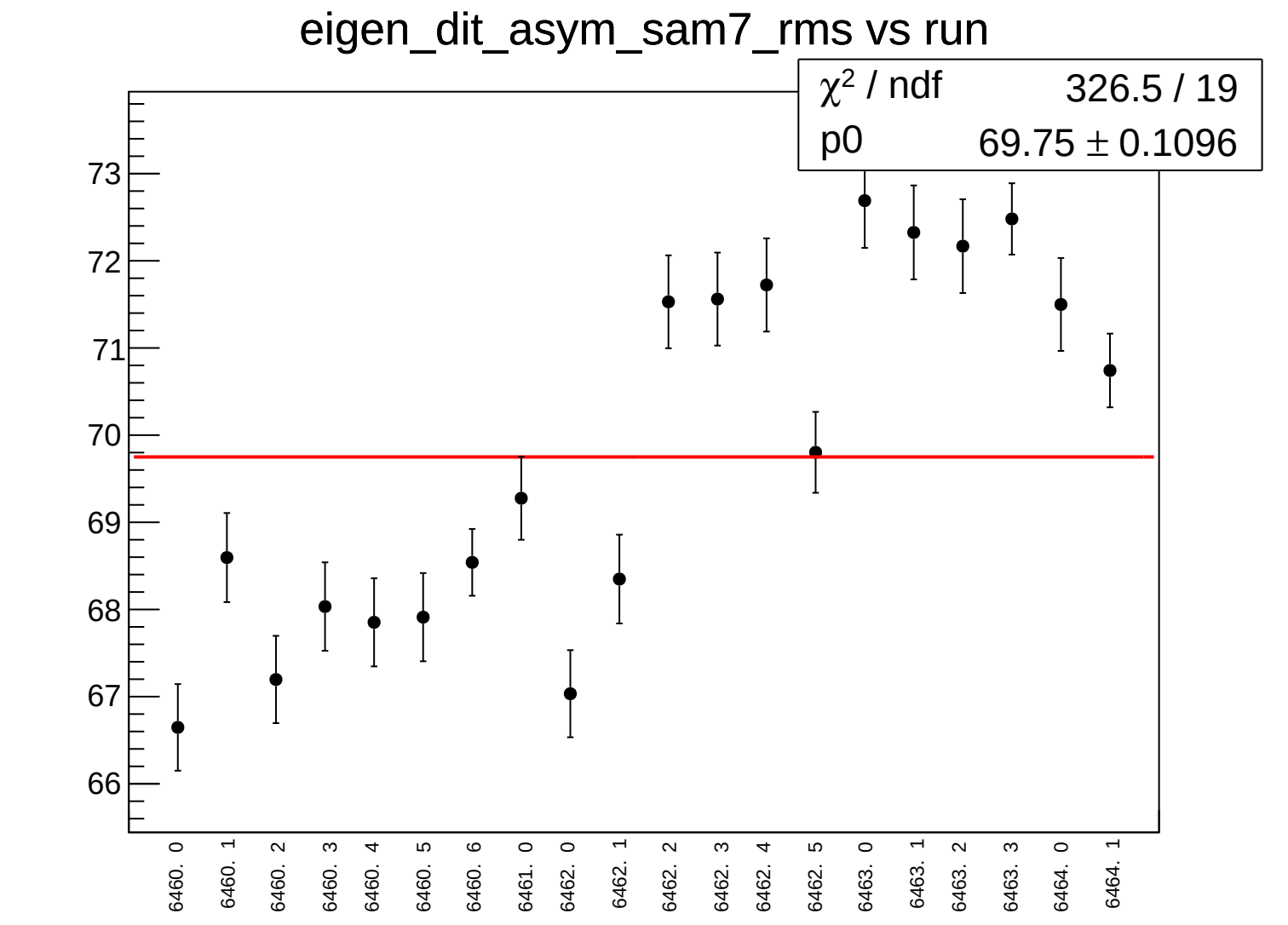

dit_asym_sam7_rms vs run
χ² / ndf 326.6 / 19
p0 69.75 ± 0.1096
73
72
71
70
69
68
67
66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

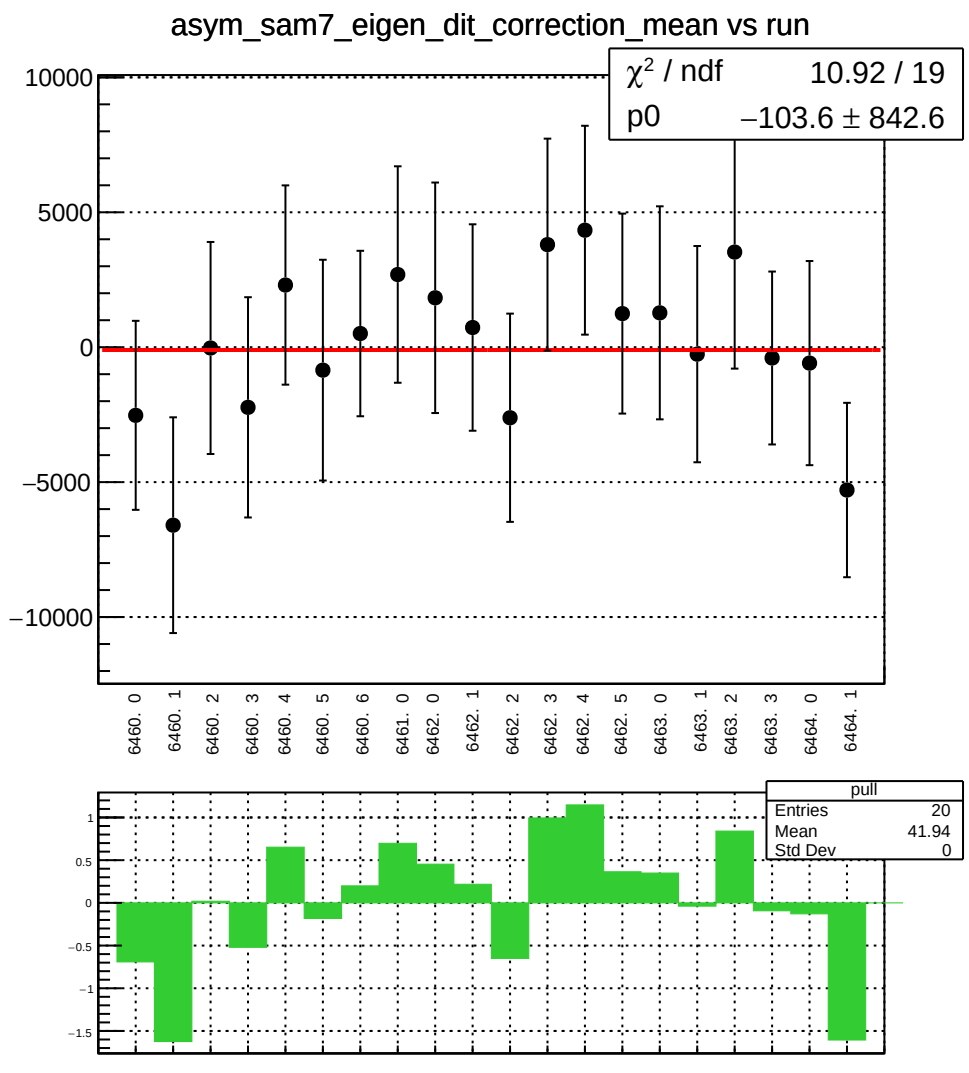

asym_sam7_dit_correction_mean vs run
χ² / ndf 10.92 / 19
p0 −103.6 ± 842.6
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 41.94
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0199
Std Dev 0.7386
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

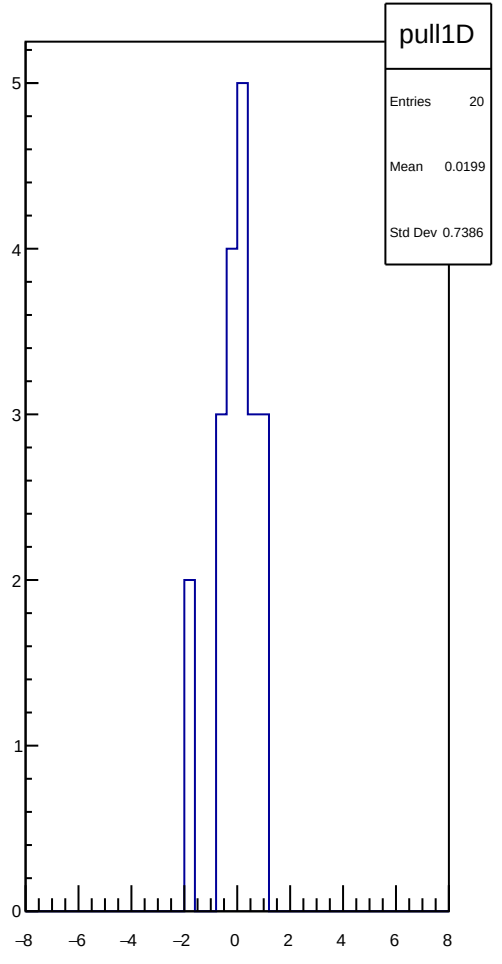

asym_sam7_dit_correction_rms vs run
χ² / ndf 1109 / 19
p0 378.8 ± 0.5958
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

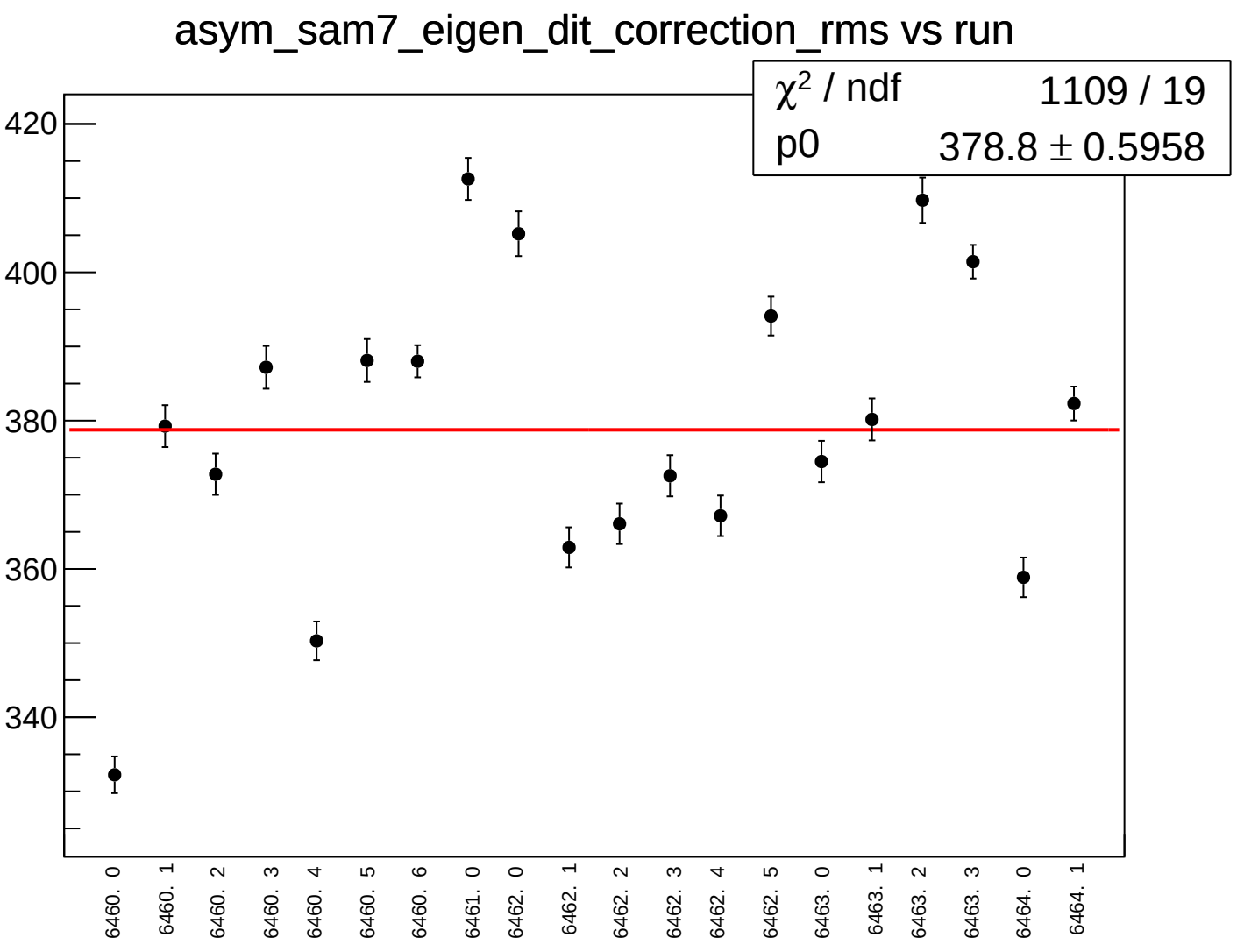

eigen_dit_asym_sam7_mean vs run
χ² / ndf 33.76 / 19
p0 143 ± 155
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −64.29
Std Dev 0
2
1
0
−1
−2

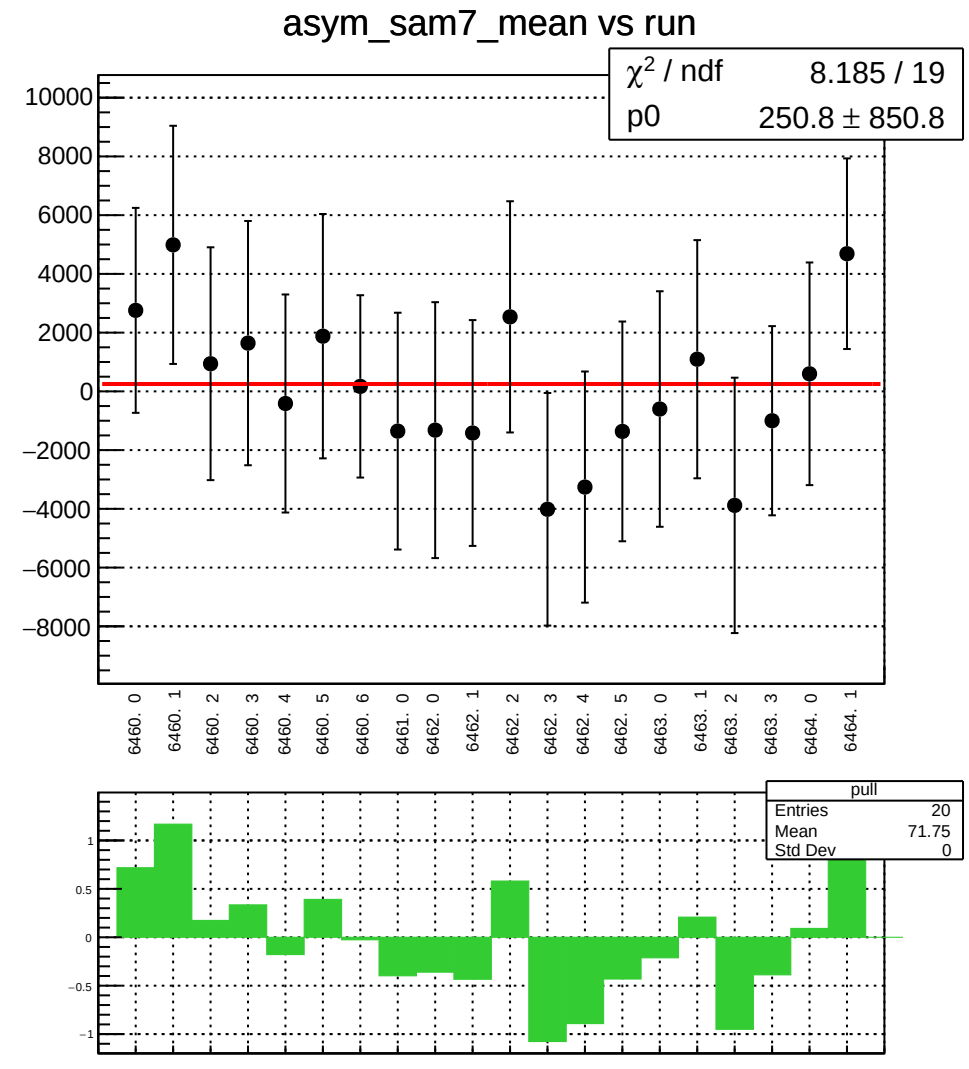

pull1D
Entries 20
Mean 0.02557
Std Dev 1.299
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

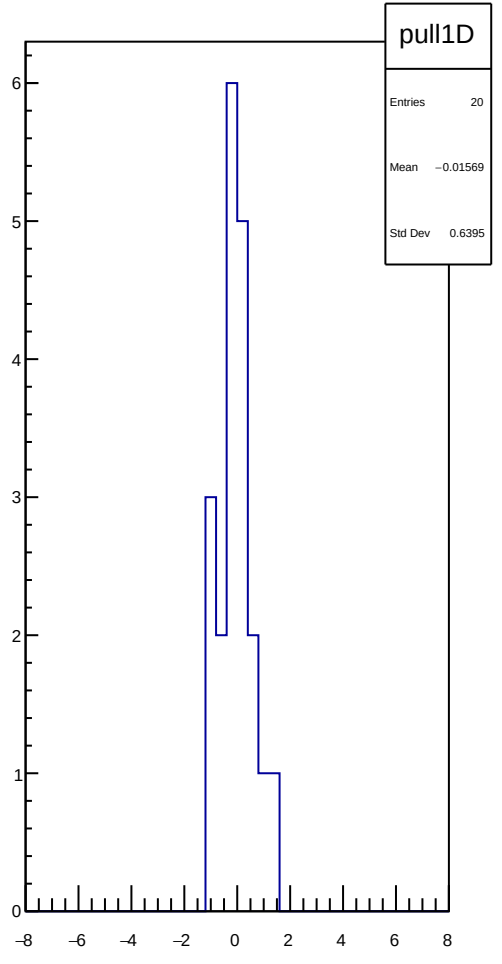

eigen_dit_asym_sam7_rms vs run
χ² / ndf 326.5 / 19
p0 69.75 ± 0.1096
73
72
71
70
69
68
67
66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

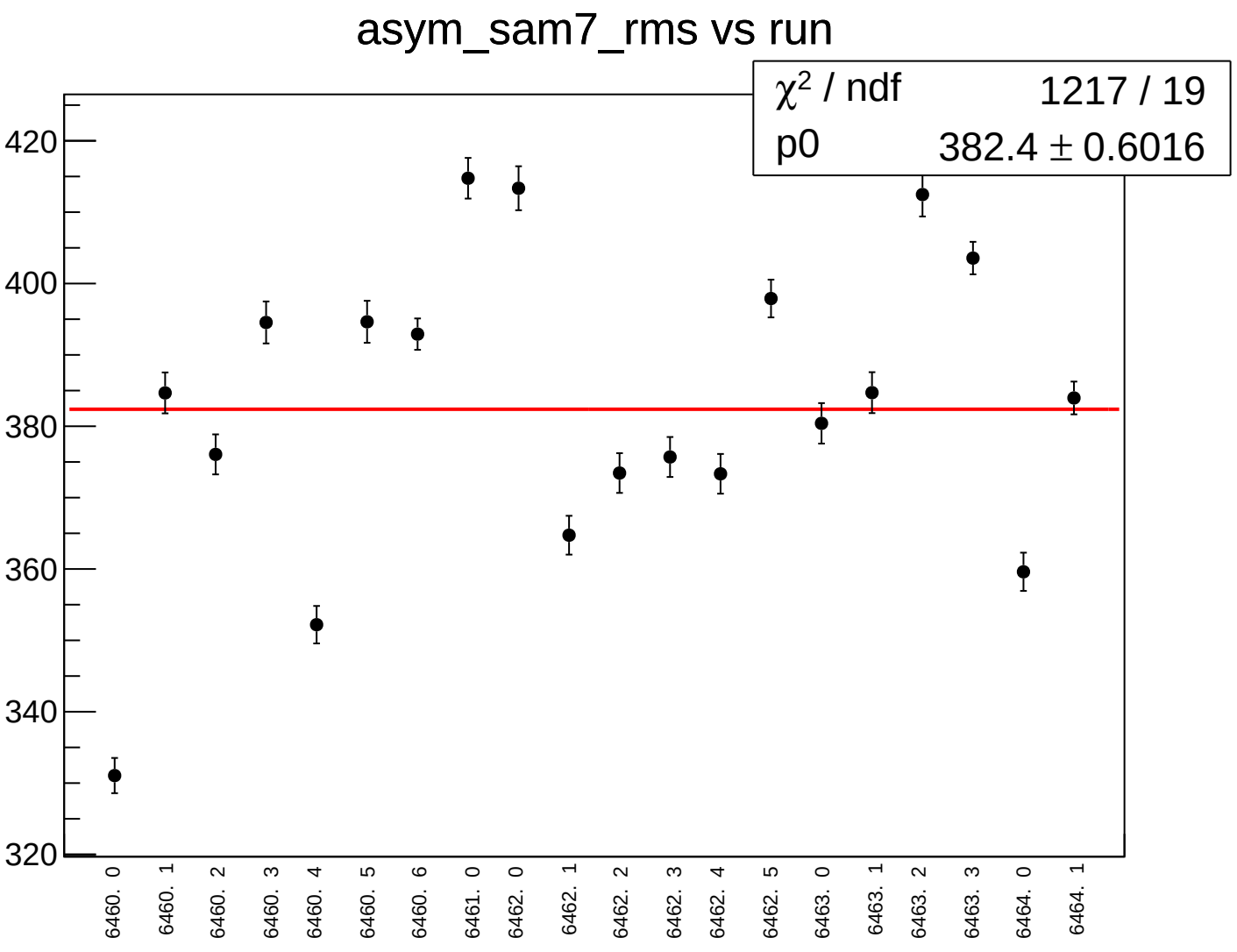

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 10.92 / 19
p0 −103.6 ± 842.6
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 41.94
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

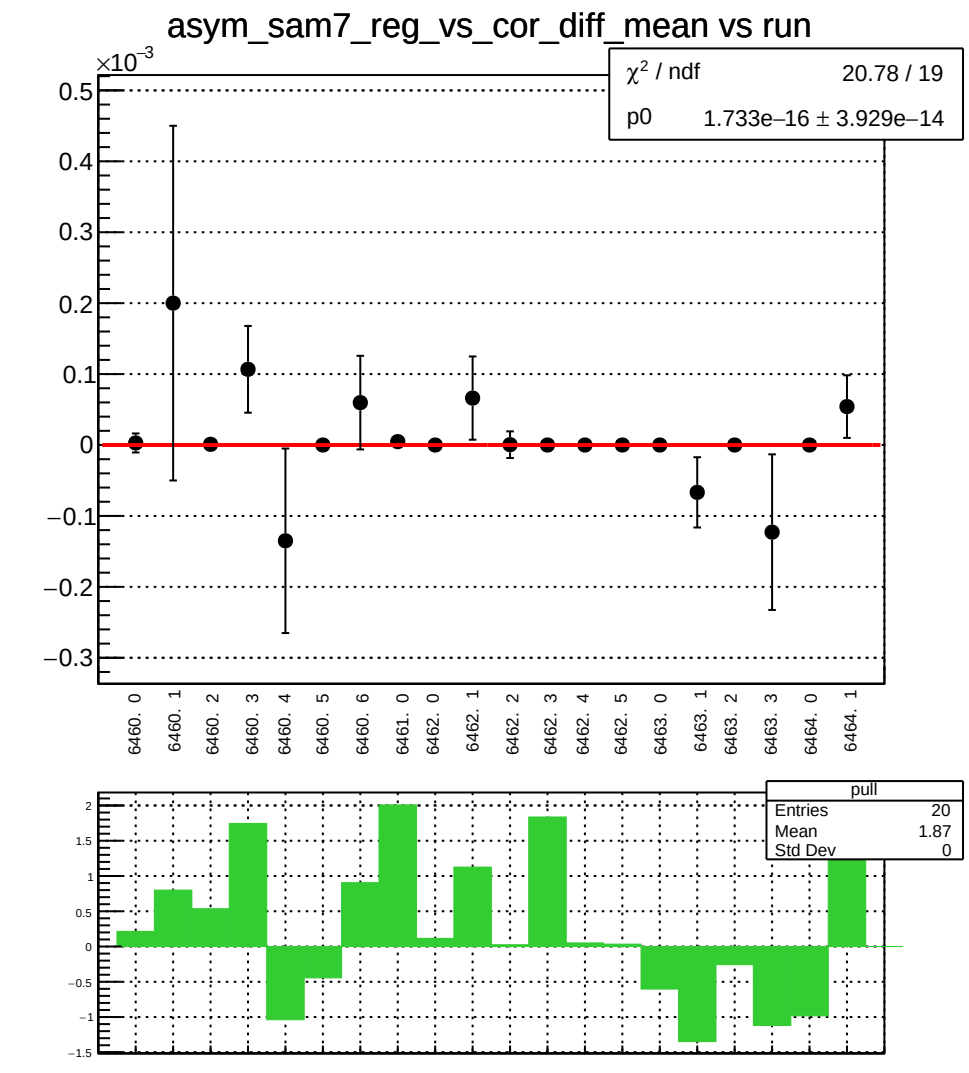

pull1D
Entries 20
Mean 0.0199
Std Dev 0.7386
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

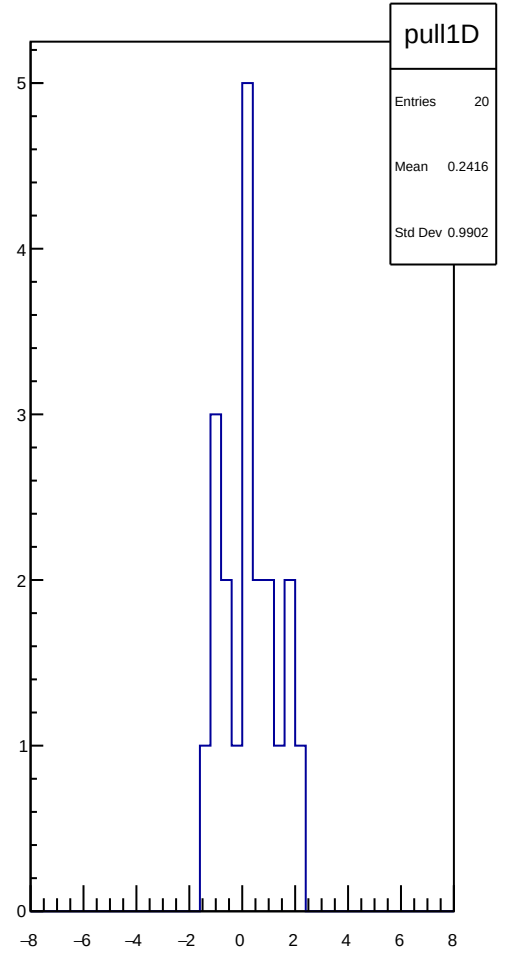

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1109 / 19
p0 378.8 ± 0.5958
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

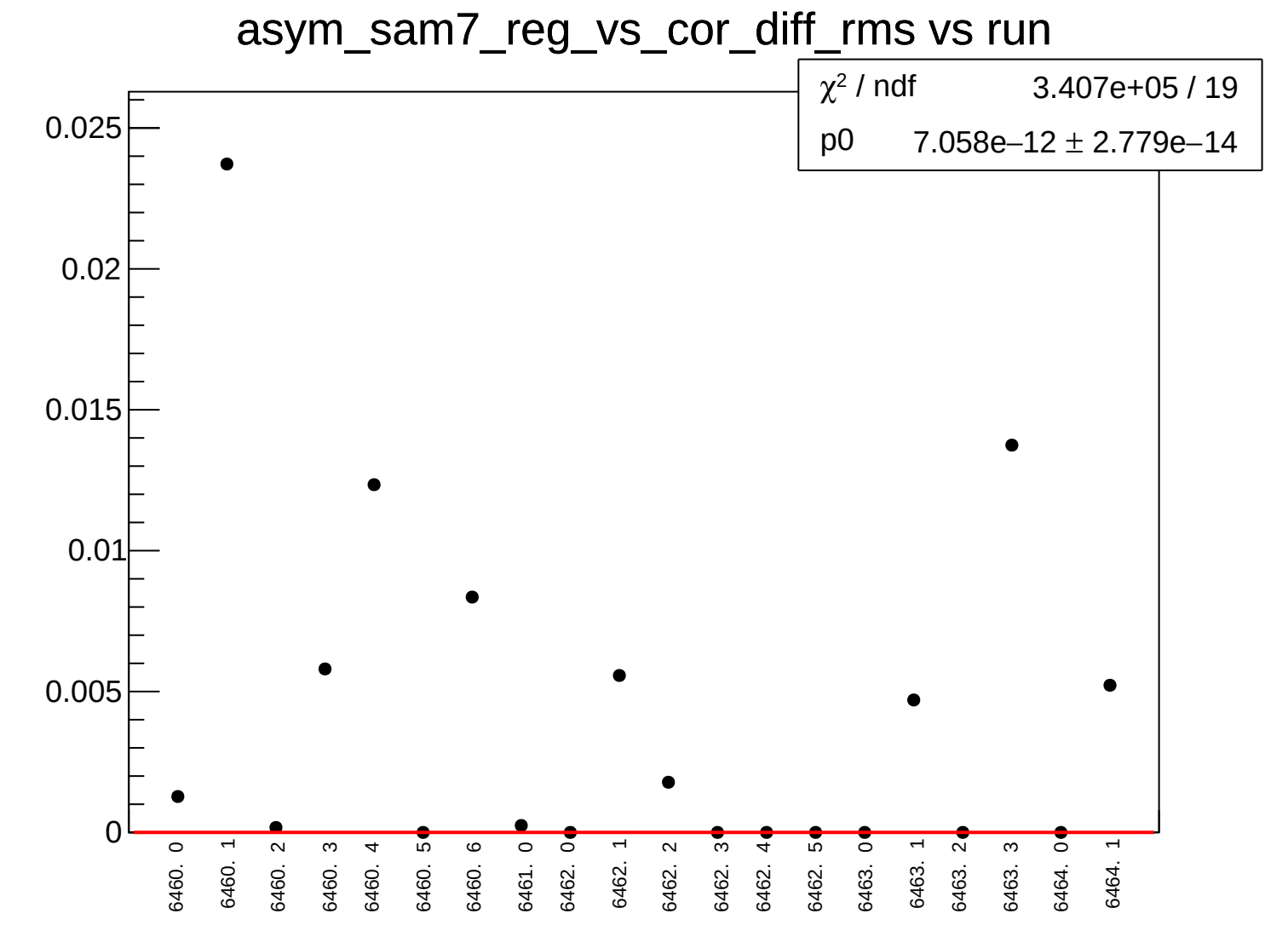

asym_sam7_mean vs run
χ² / ndf 8.185 / 19
p0 250.8 ± 850.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 71.75
Std Dev 0
1
0.5
0
−0.5
−1

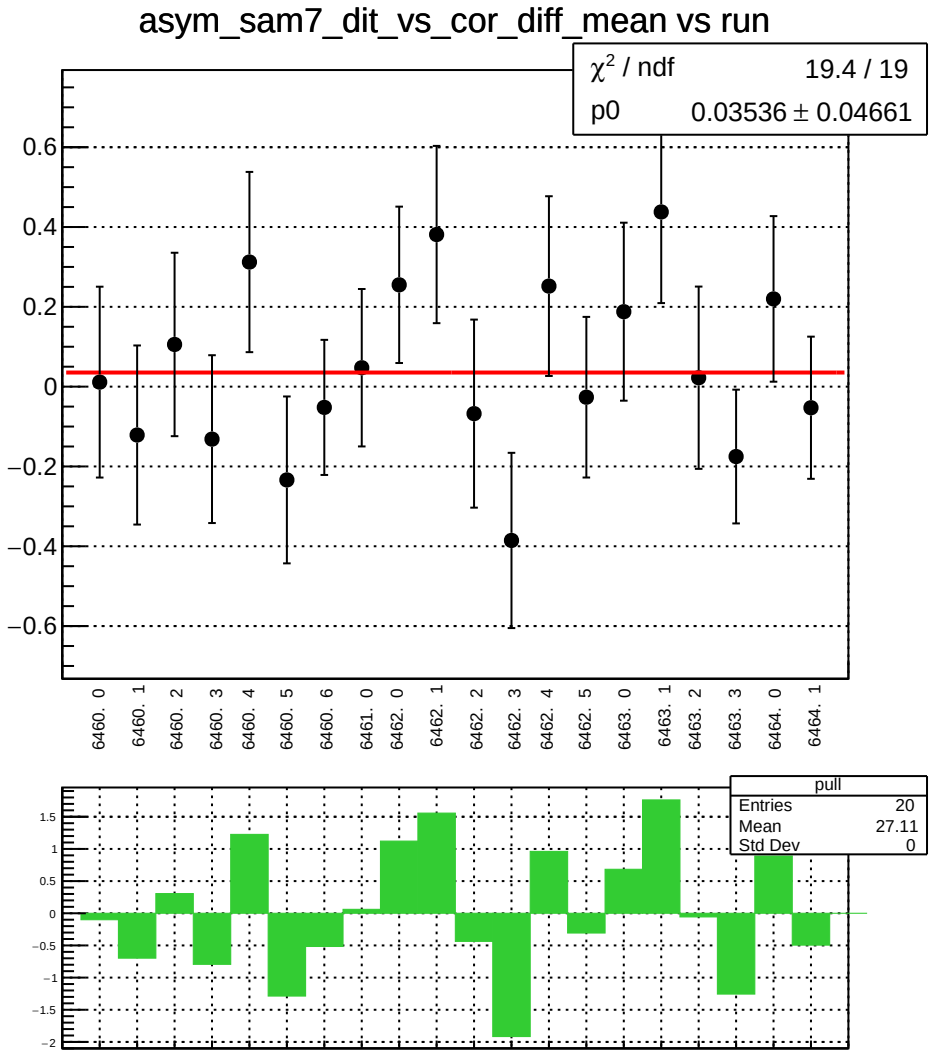

pull1D
Entries 20
Mean −0.01569
Std Dev 0.6395
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

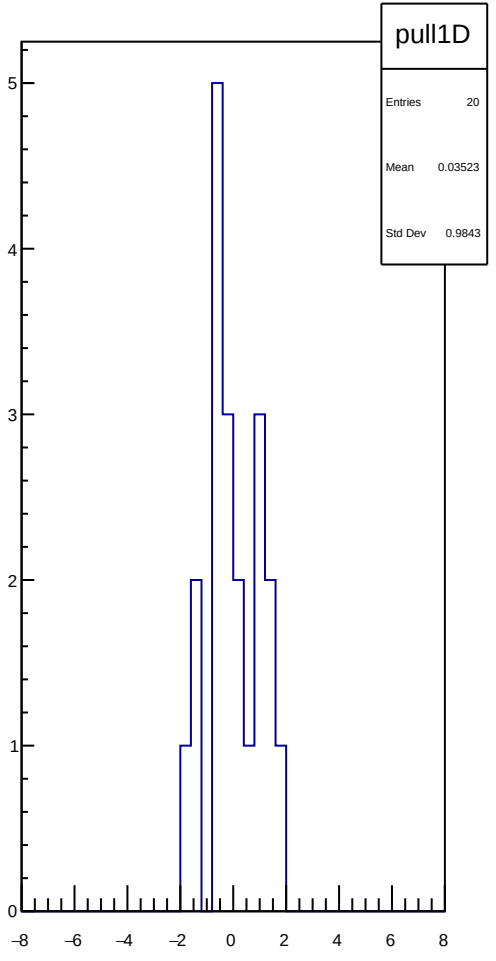

asym_sam7_rms vs run
χ² / ndf 1217 / 19
p0 382.4 ± 0.6016
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

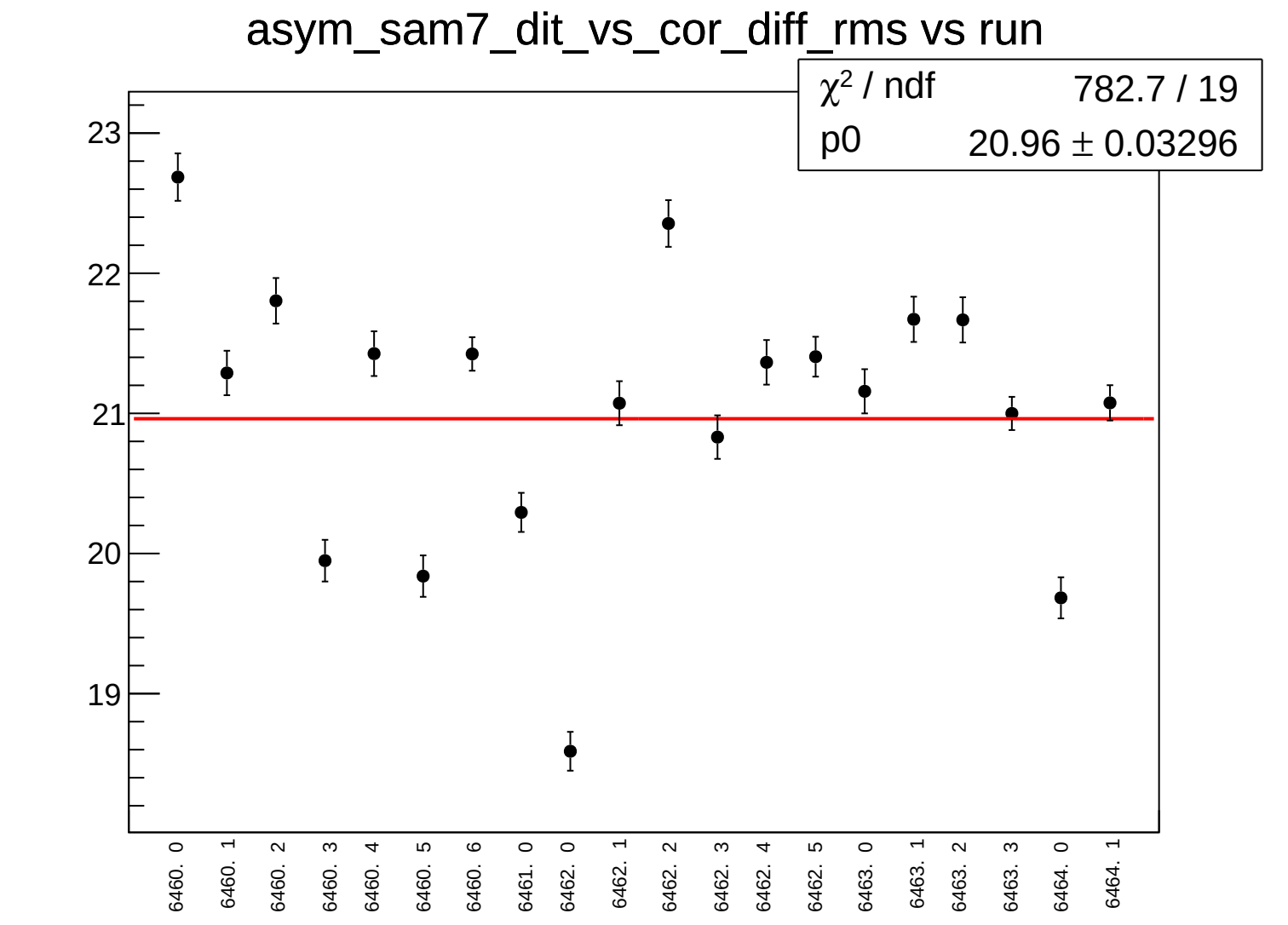

asym_sam7_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 20.78 / 19
p0 1.733e−16 ± 3.929e−14
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

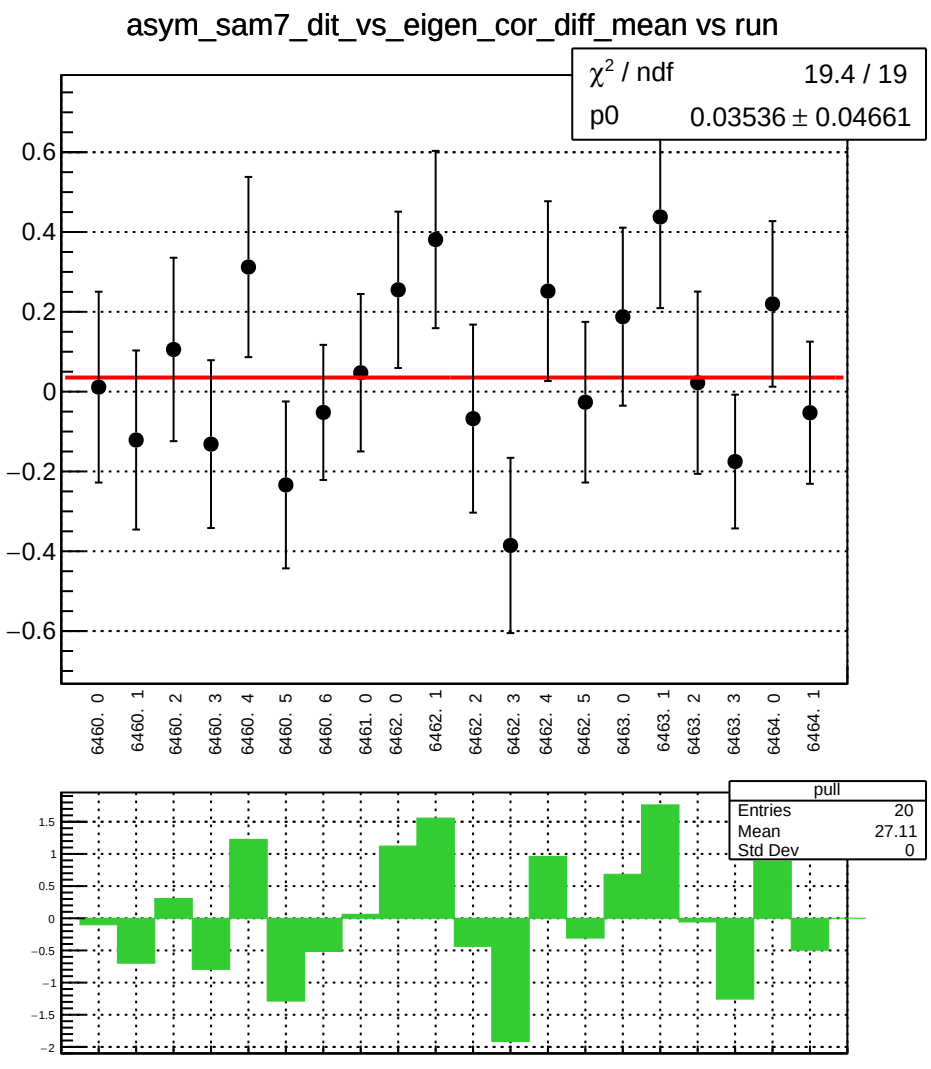

pull1D
Entries 20
Mean 0.2416
Std Dev 0.9902
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

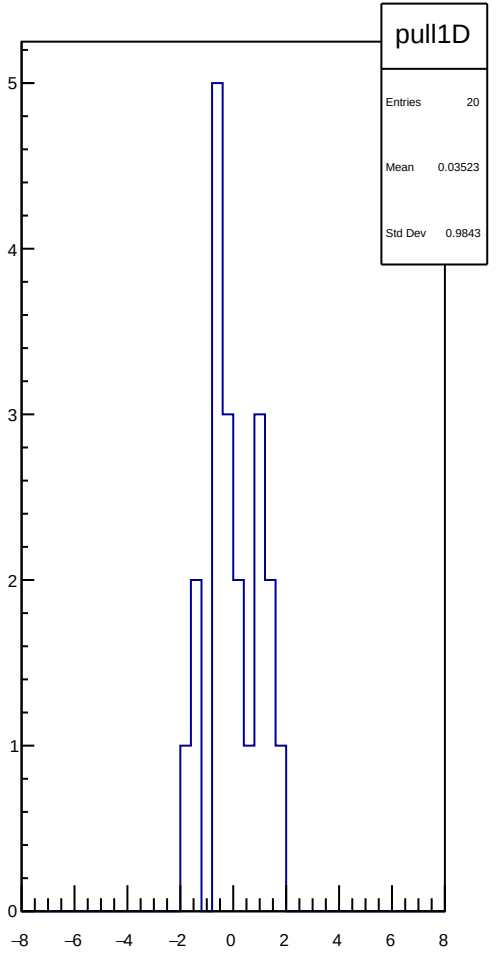

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 3.407e+05 / 19
p0 7.058e−12 ± 2.779e−14
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

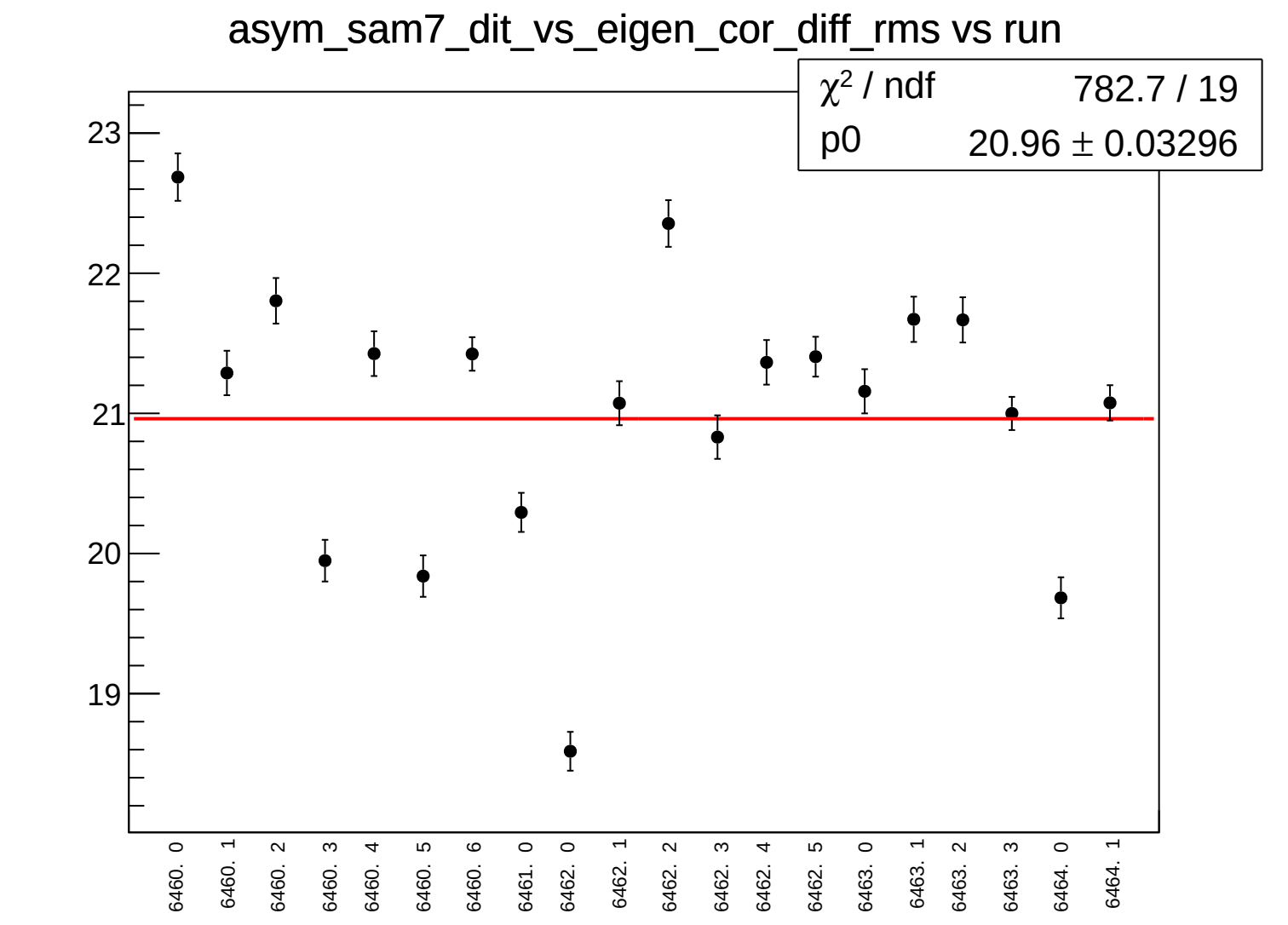

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 19.4 / 19
p0 0.03536 ± 0.04661
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

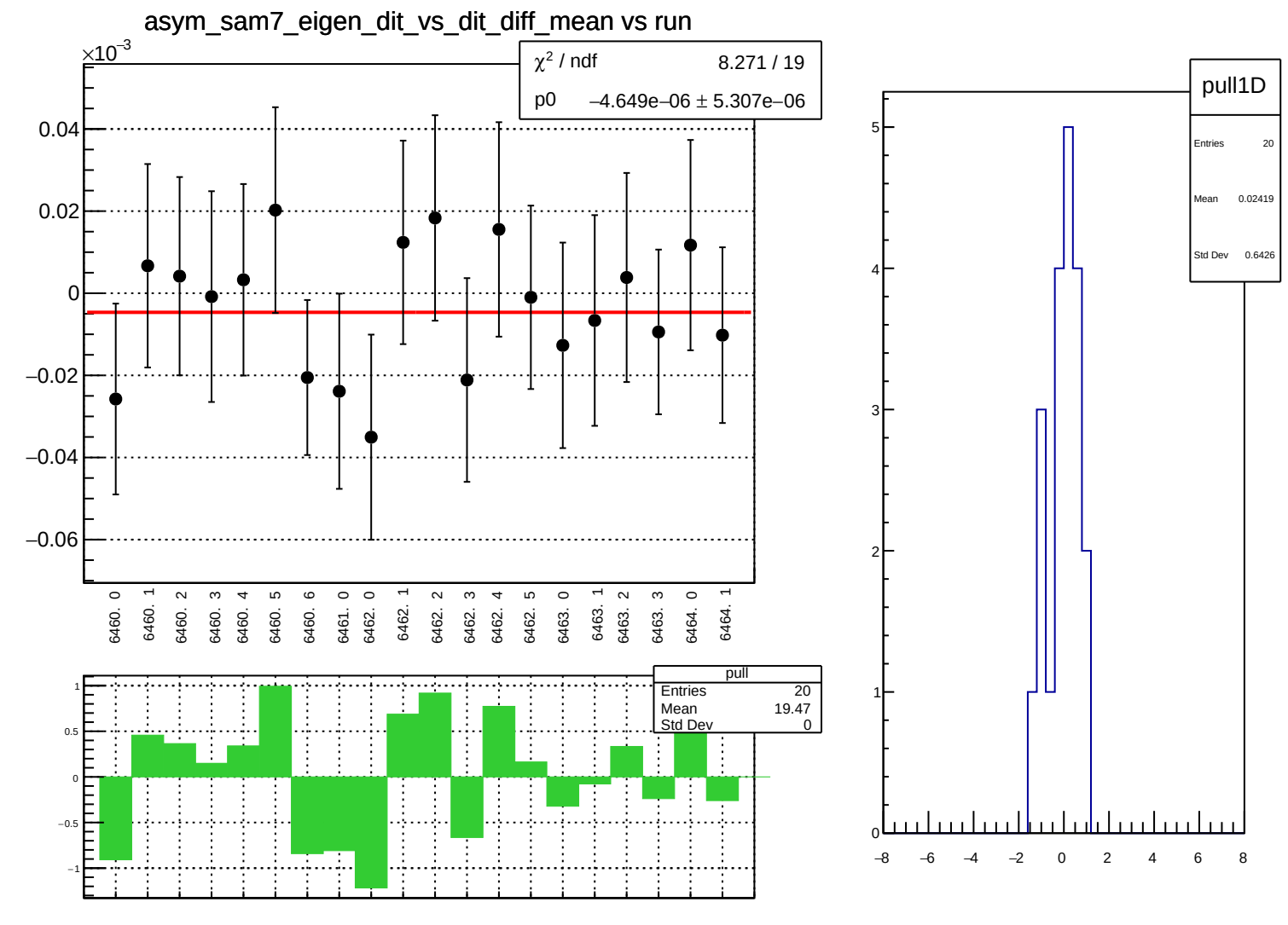

pull1D
Entries 20
Mean 0.03523
Std Dev 0.9843
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

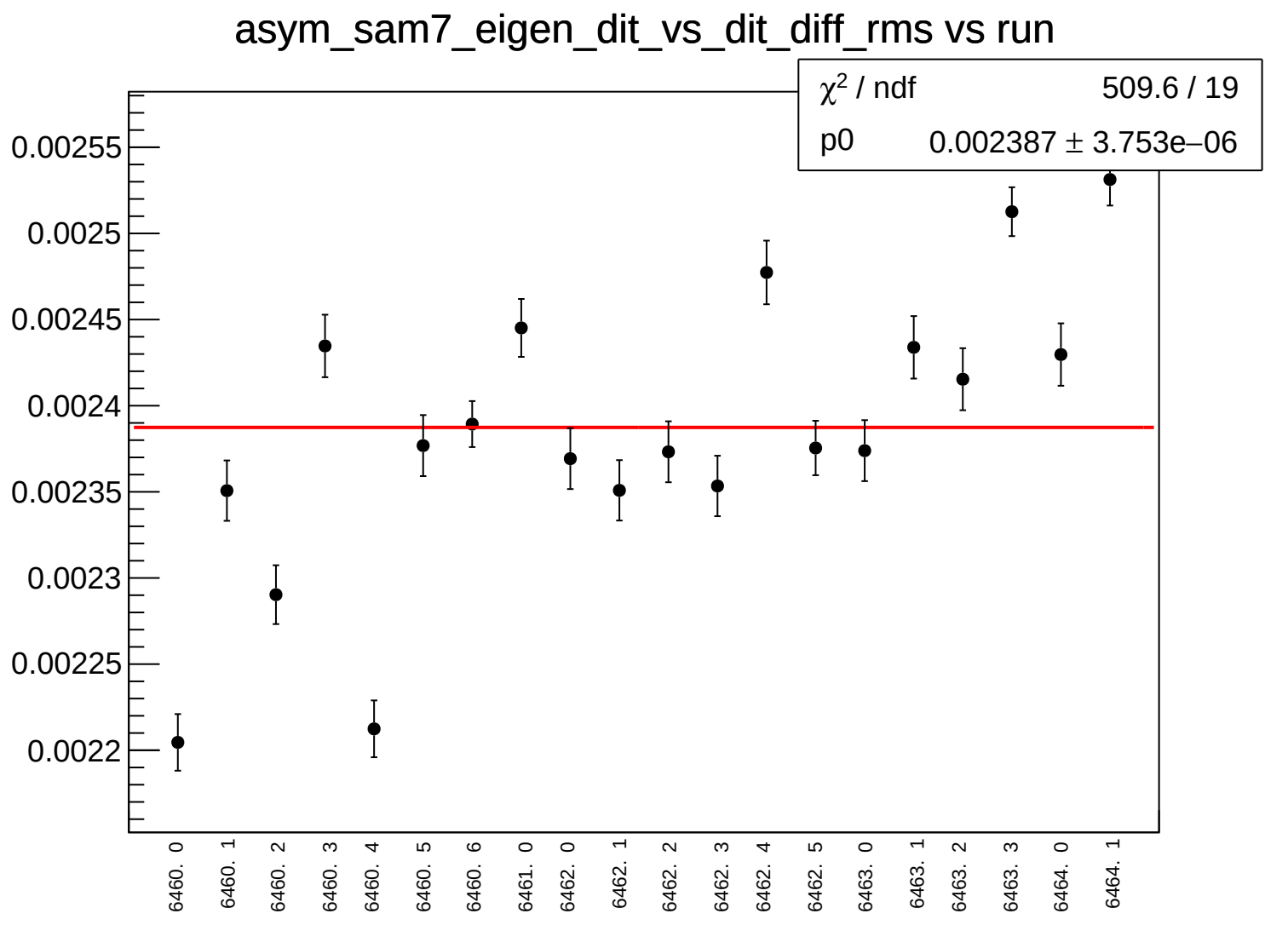

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 782.7 / 19
p0 20.96 ± 0.03296
23
22
21
20
19
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

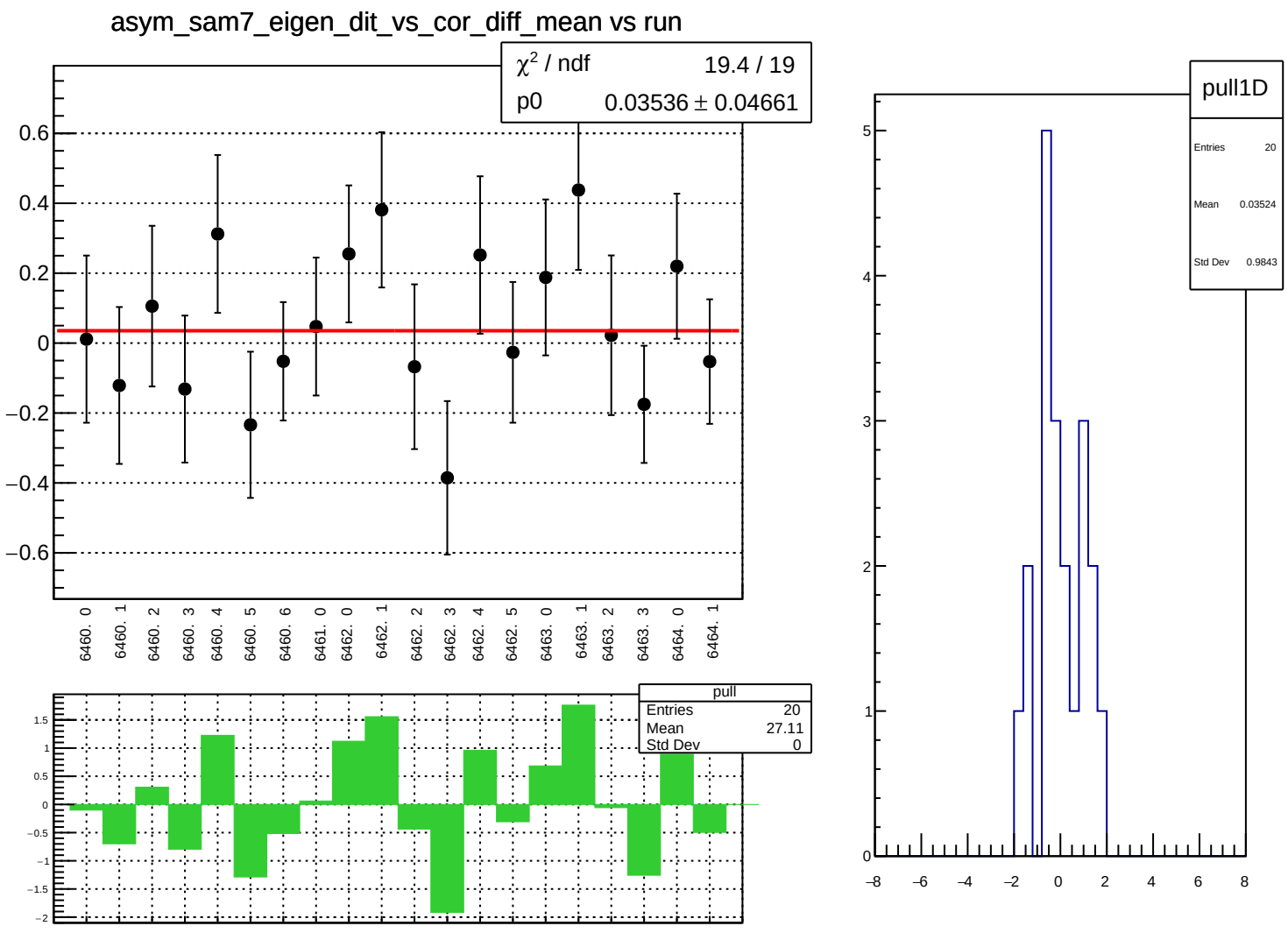

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.4 / 19
p0 0.03536 ± 0.04661
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

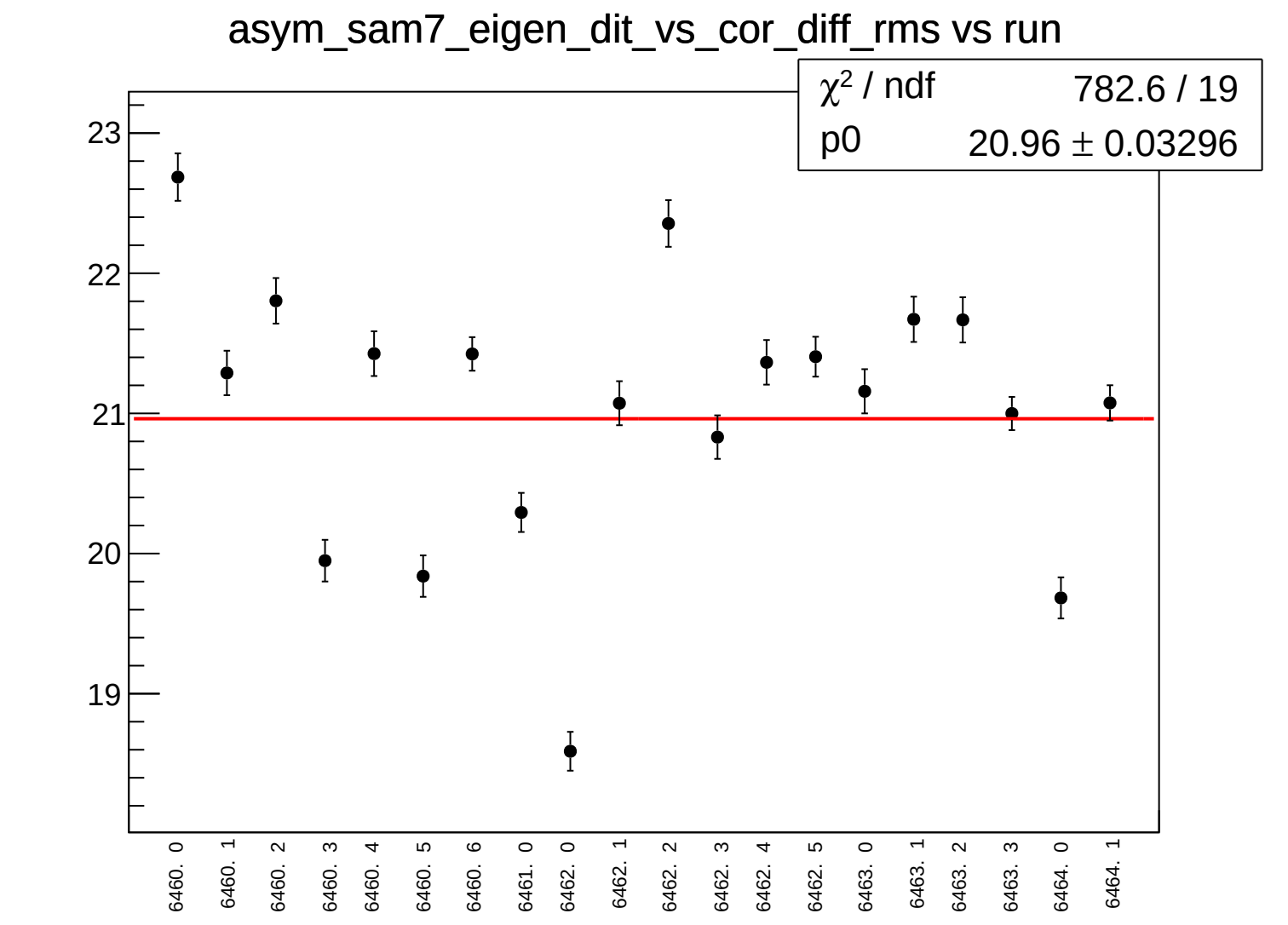

pull1D
Entries 20
Mean 0.03523
Std Dev 0.9843
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

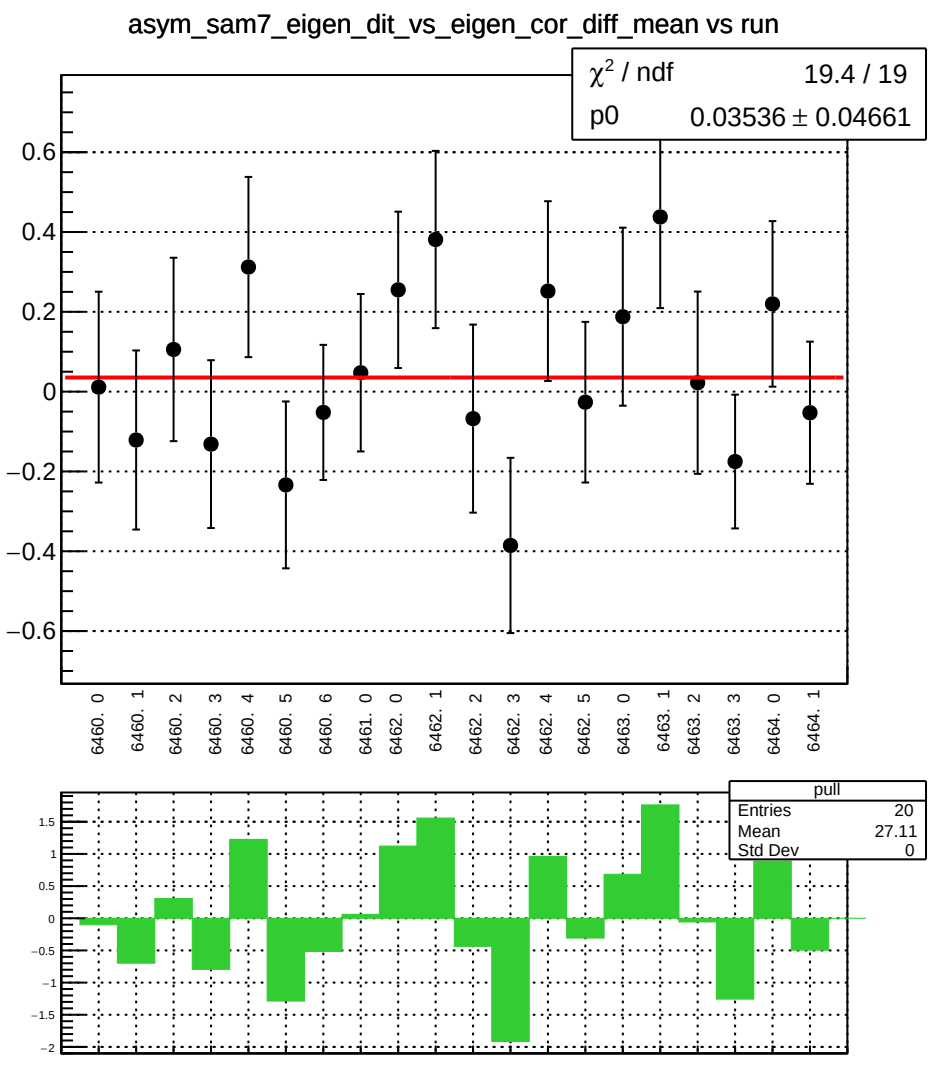

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 782.7 / 19
p0 20.96 ± 0.03296
23
22
21
20
19
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

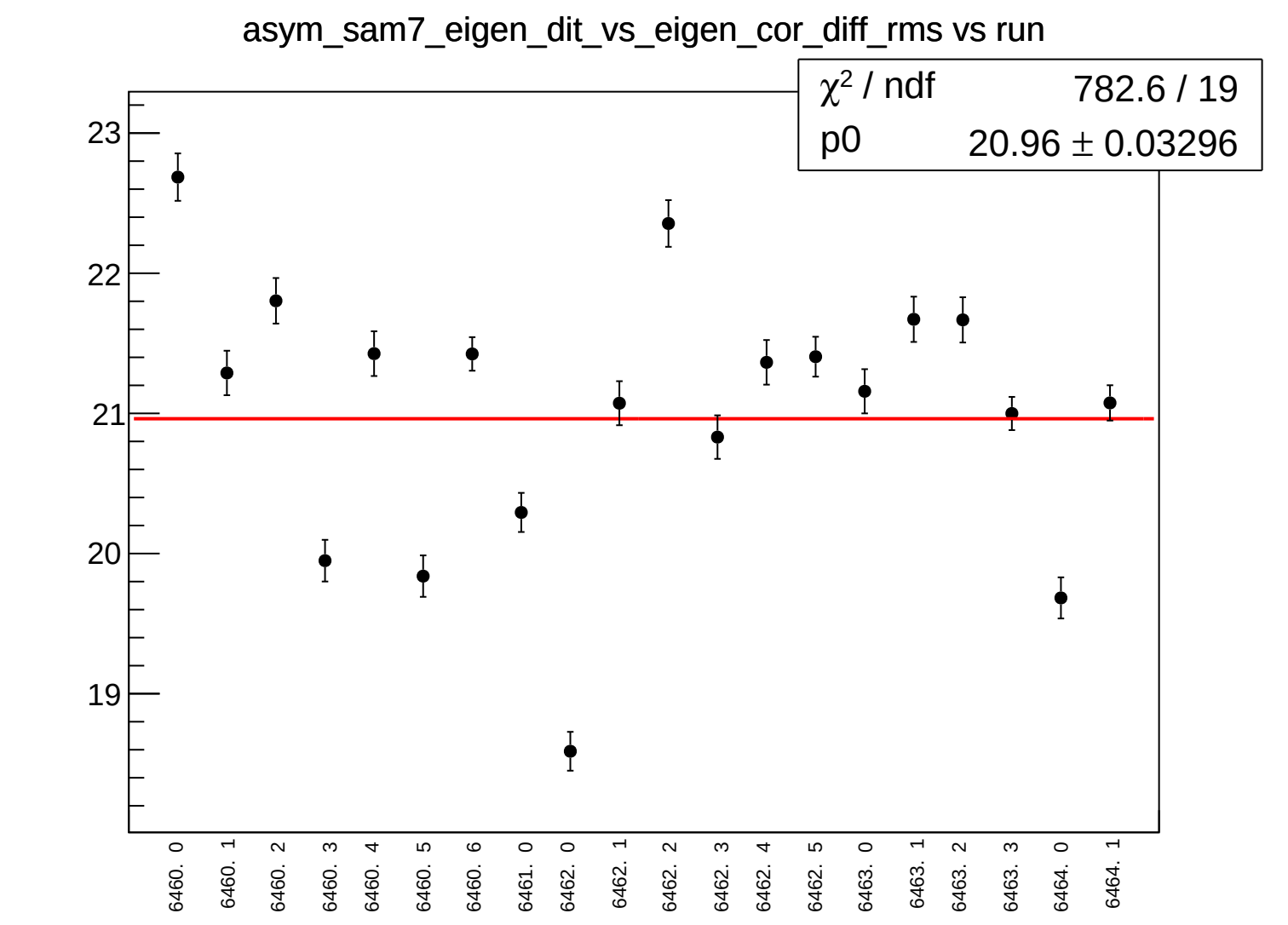

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 8.271 / 19
p0 −4.649e−06 ± 5.307e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.47
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.02419
Std Dev 0.6426
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

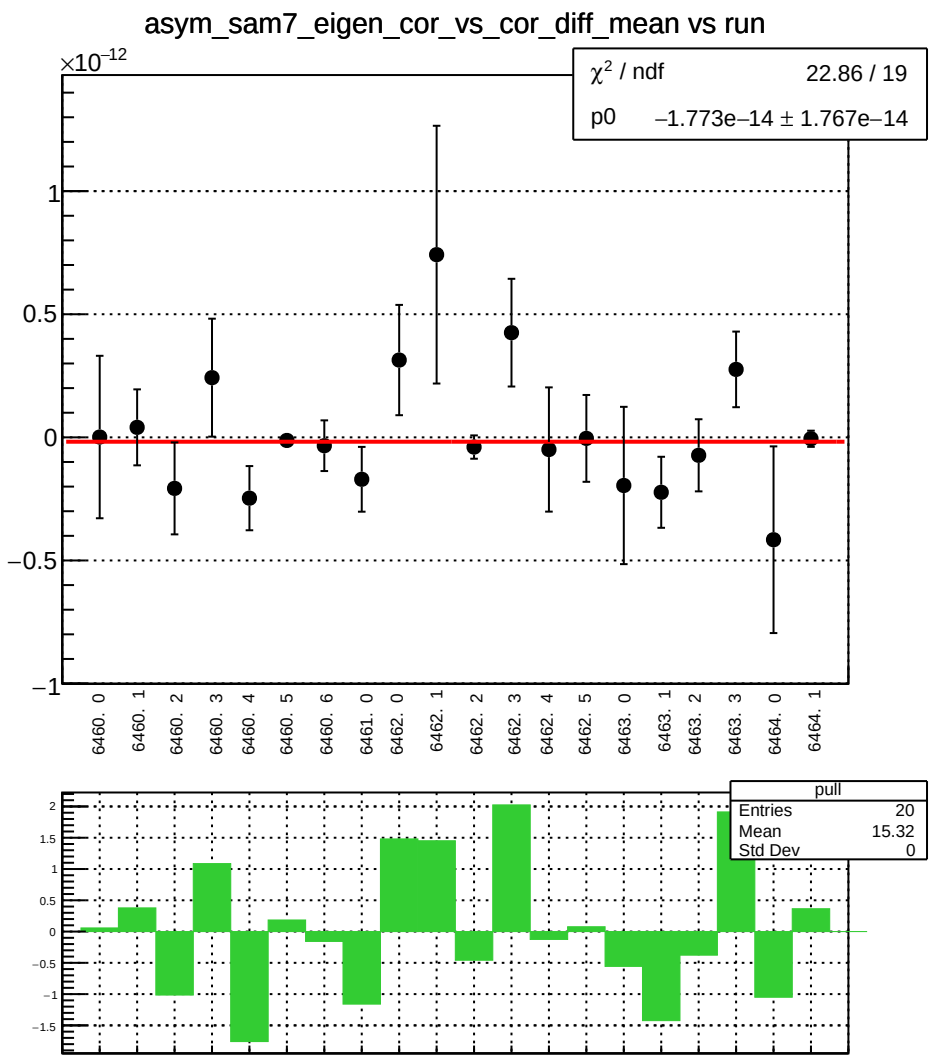

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 509.6 / 19
p0 0.002387 ± 3.753e−06
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

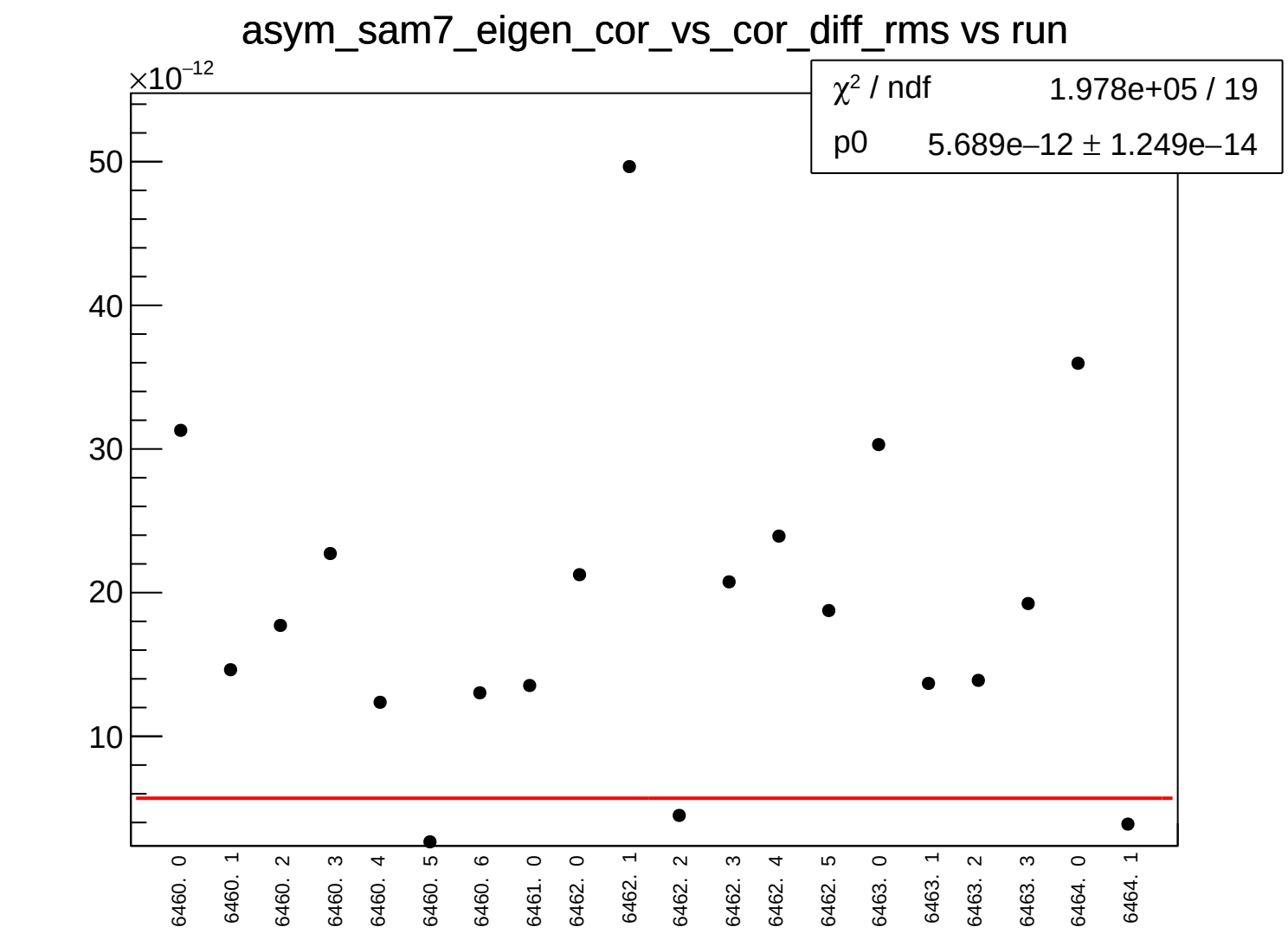

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.4 / 19
p0 0.03536 ± 0.04661
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.03524
Std Dev 0.9843
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

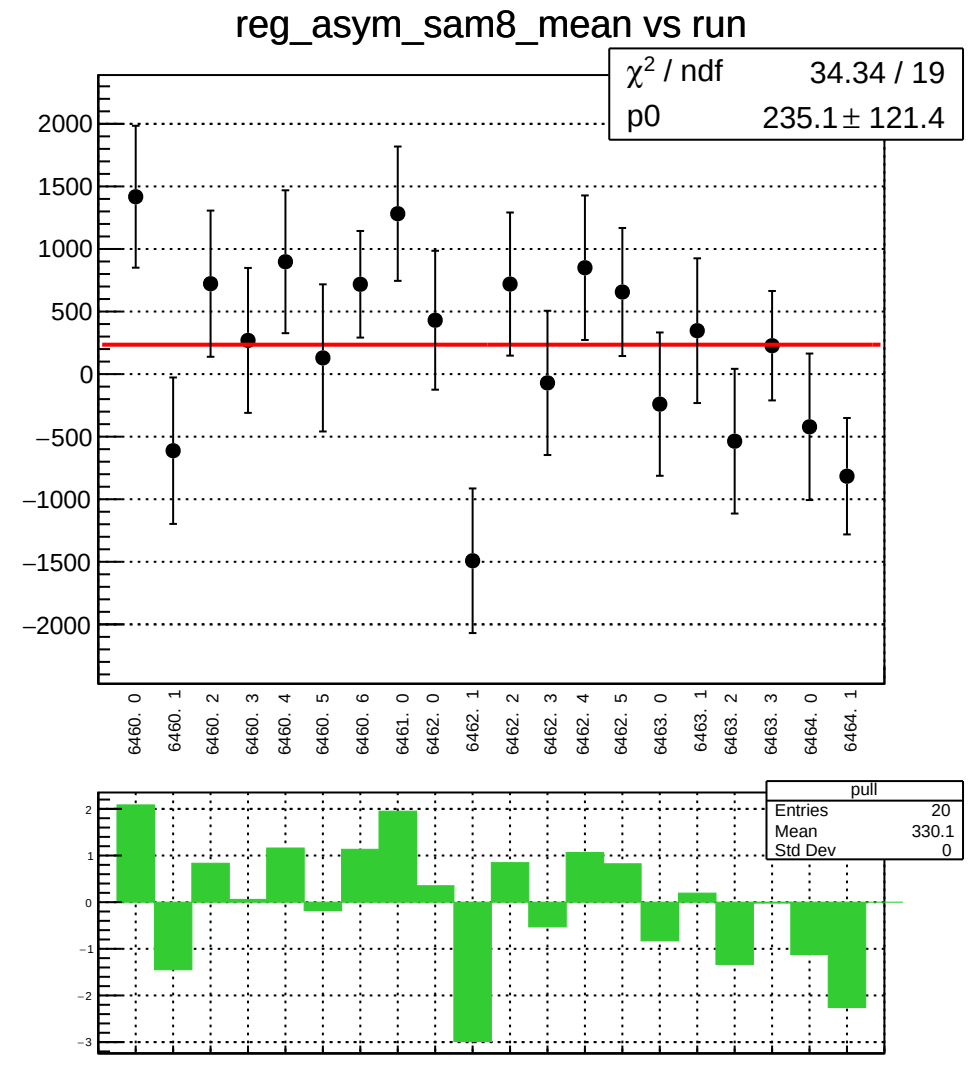

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 782.6 / 19
p0 20.96 ± 0.03296
23
22
21
20
19
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

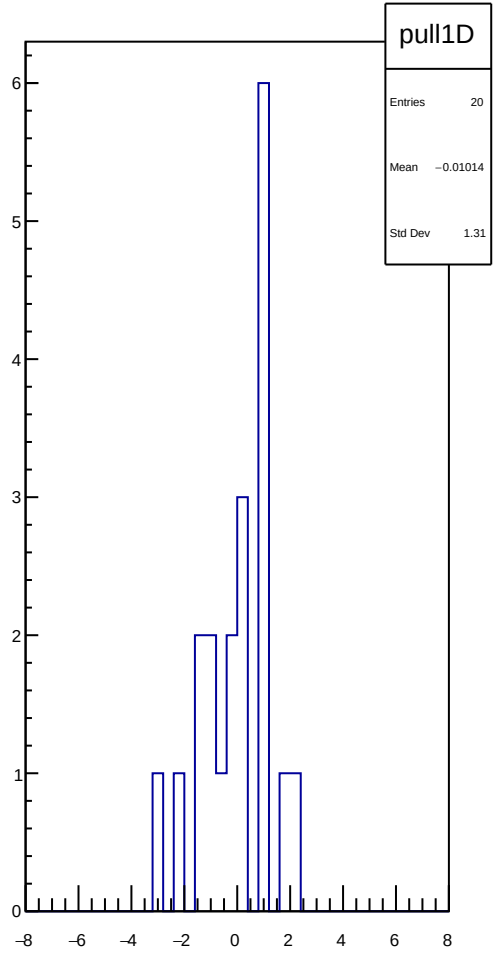

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.4 / 19
p0 0.03536 ± 0.04661
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.03524
Std Dev 0.9843
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

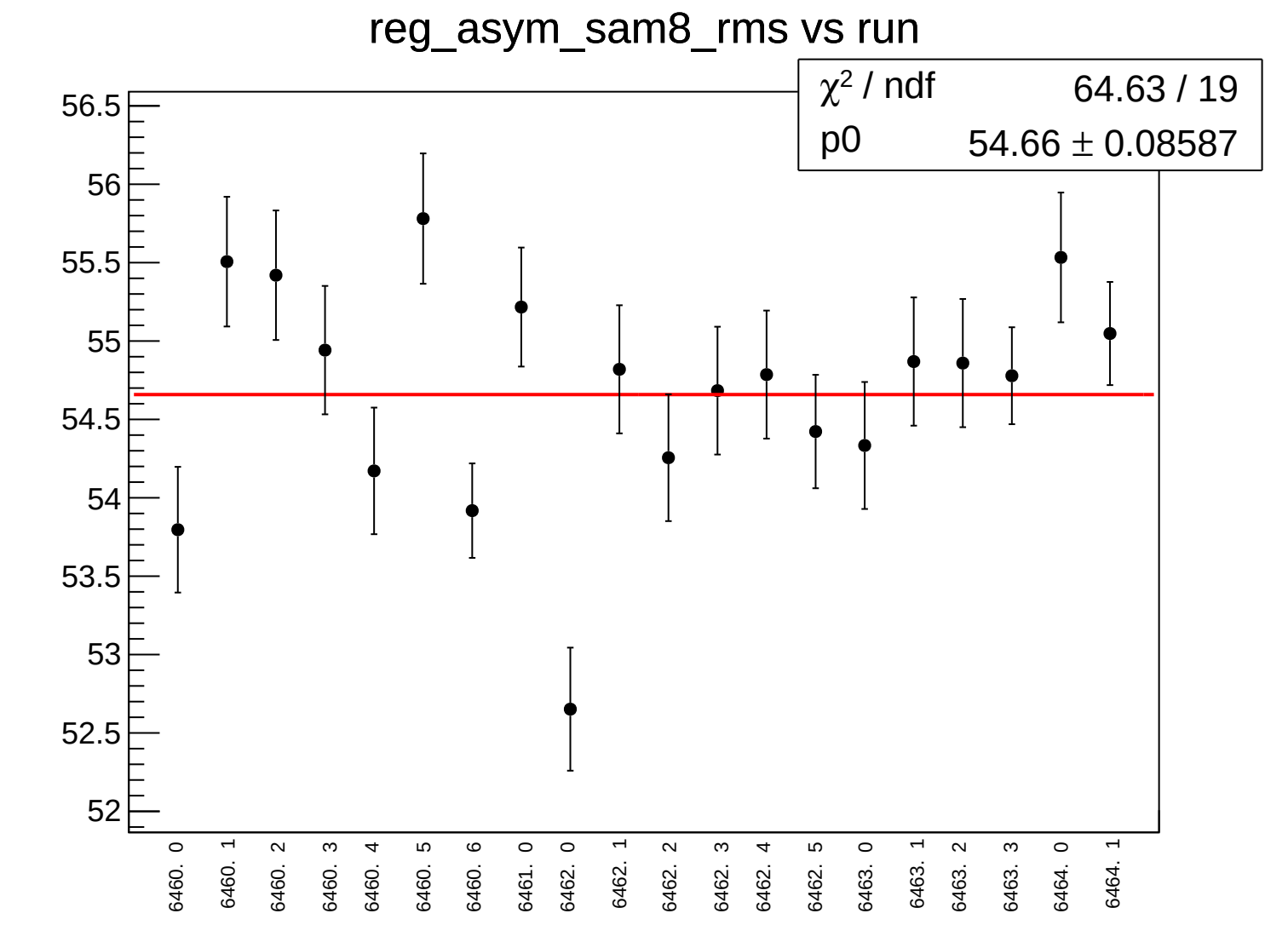

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 782.6 / 19
p0 20.96 ± 0.03296
23
22
21
20
19
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

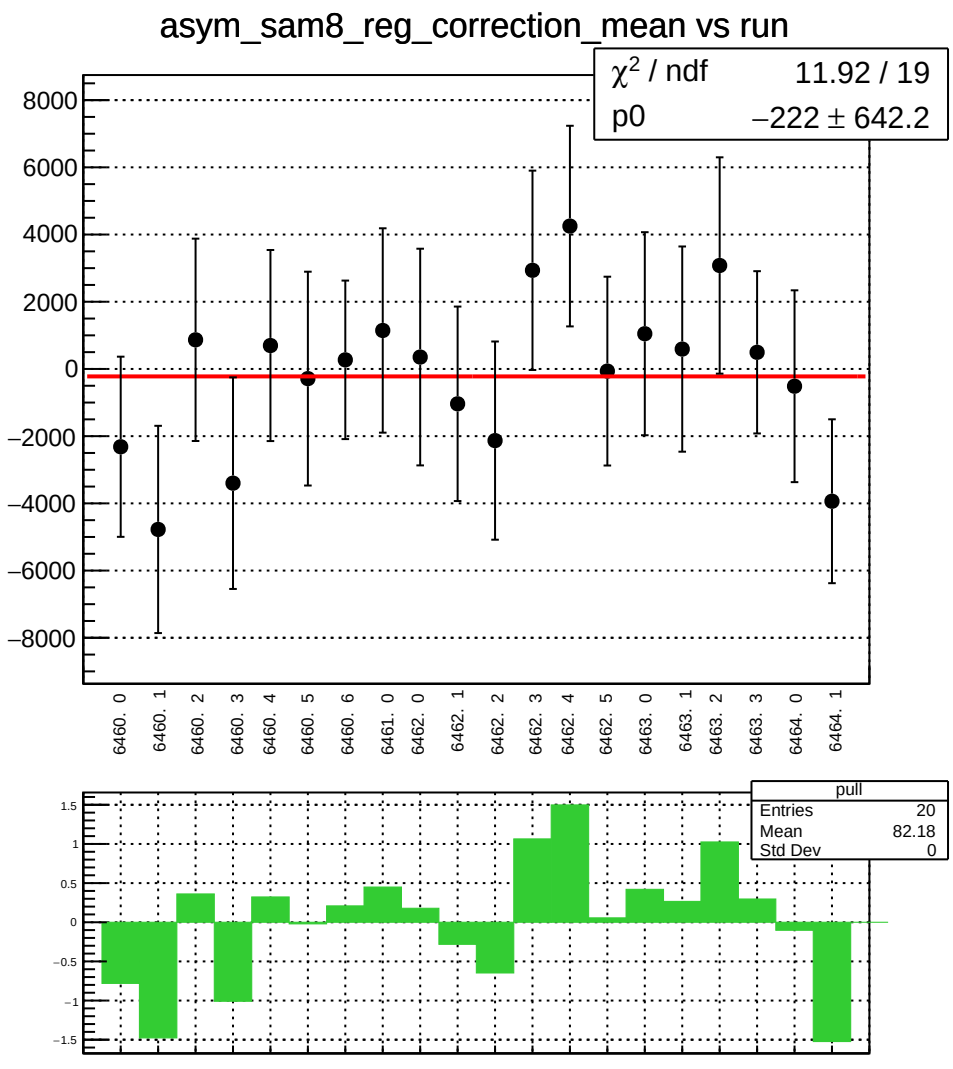

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.86 / 19
p0 −1.773e−14 ± 1.767e−14
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 15.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.04688
Std Dev 1.068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

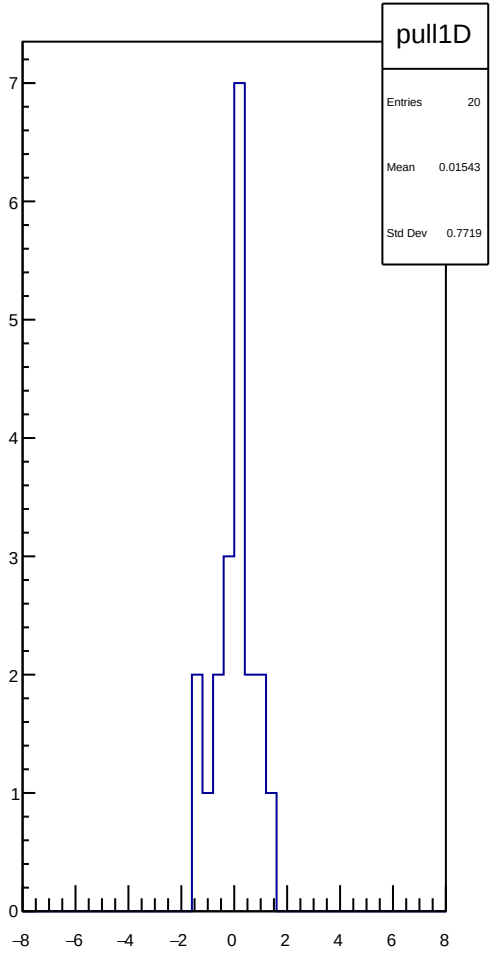

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.978e+05 / 19
p0 5.689e−12 ± 1.249e−14
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

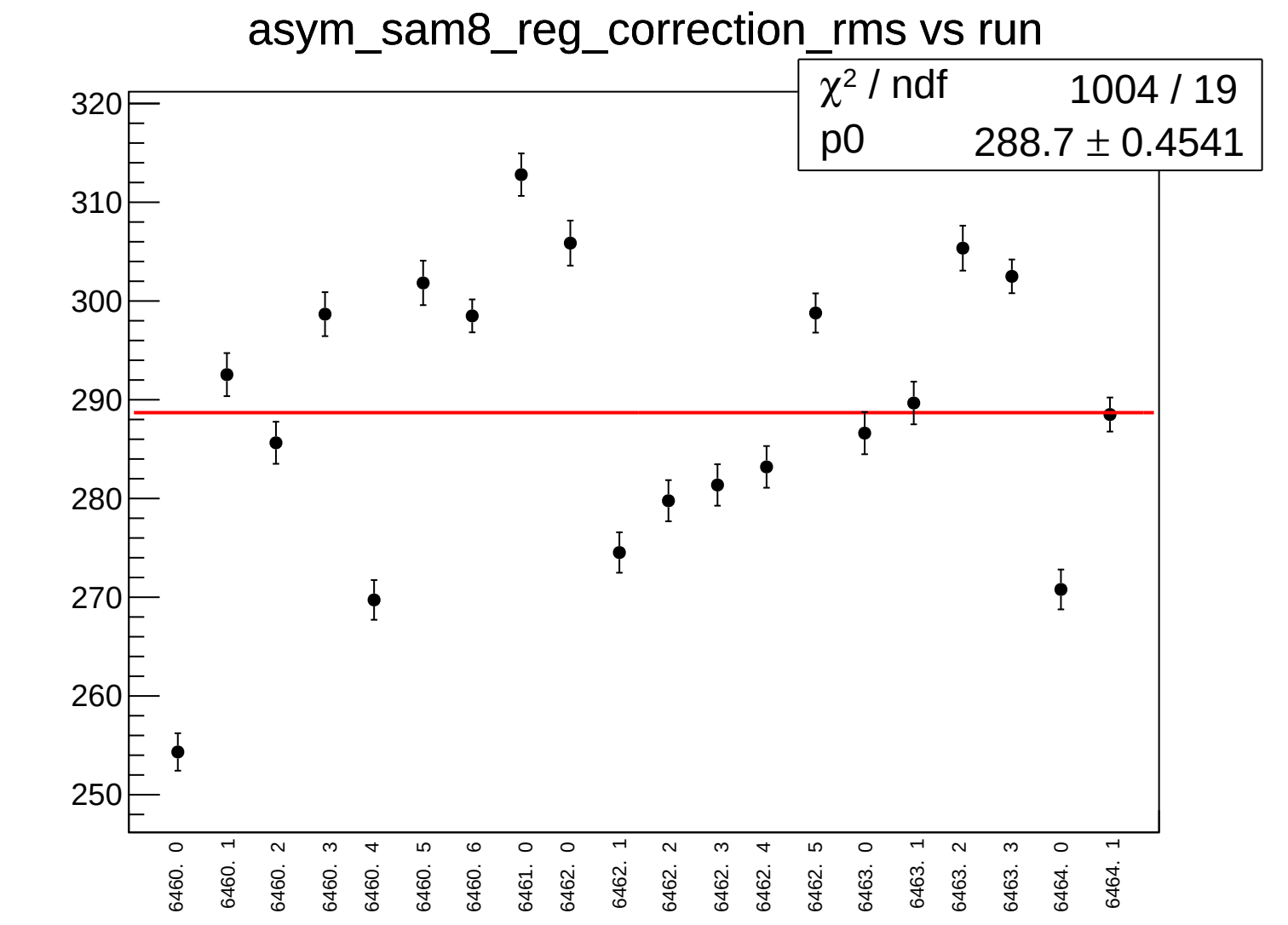

reg_asym_sam8_mean vs run
χ² / ndf 34.34 / 19
p0 235.1 ± 121.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 330.1
Std Dev 0
2
1
0
−1
−2
−3

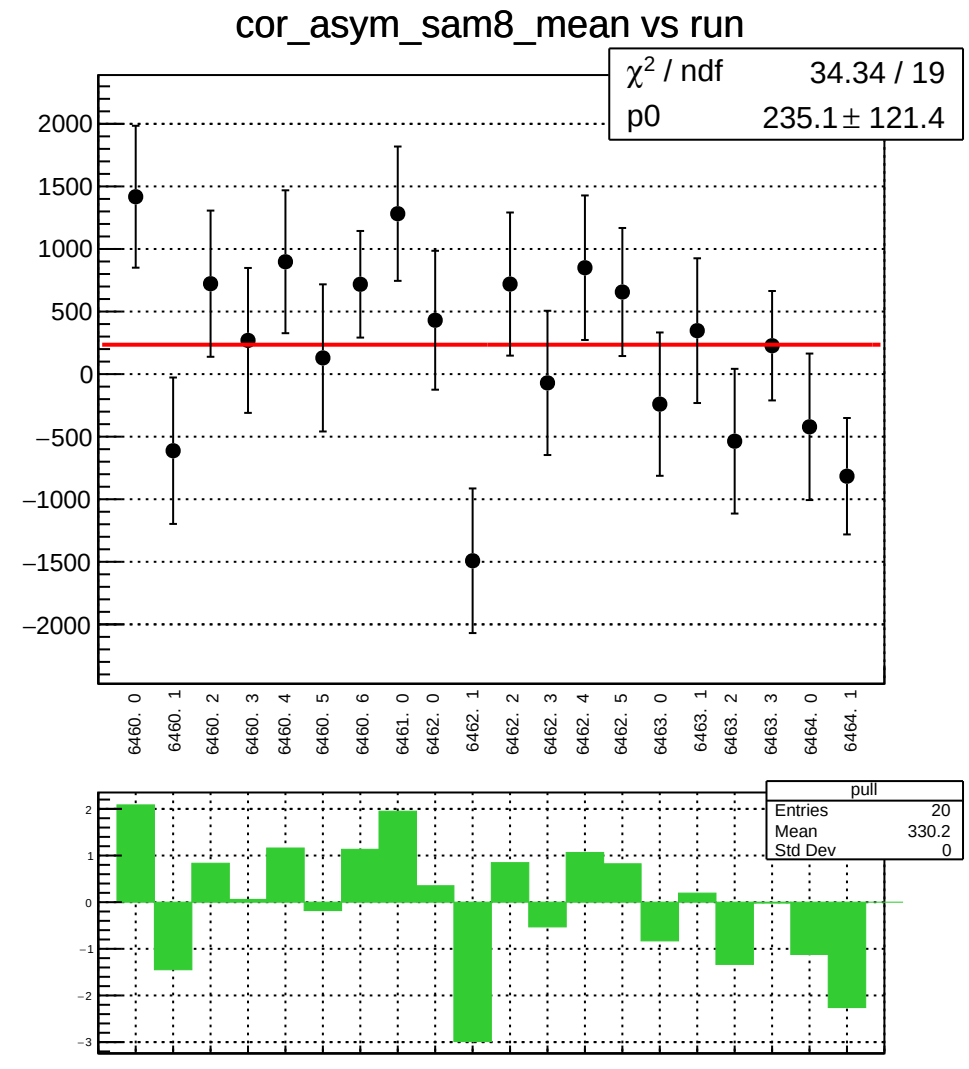

pull1D
Entries 20
Mean −0.01014
Std Dev 1.31
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

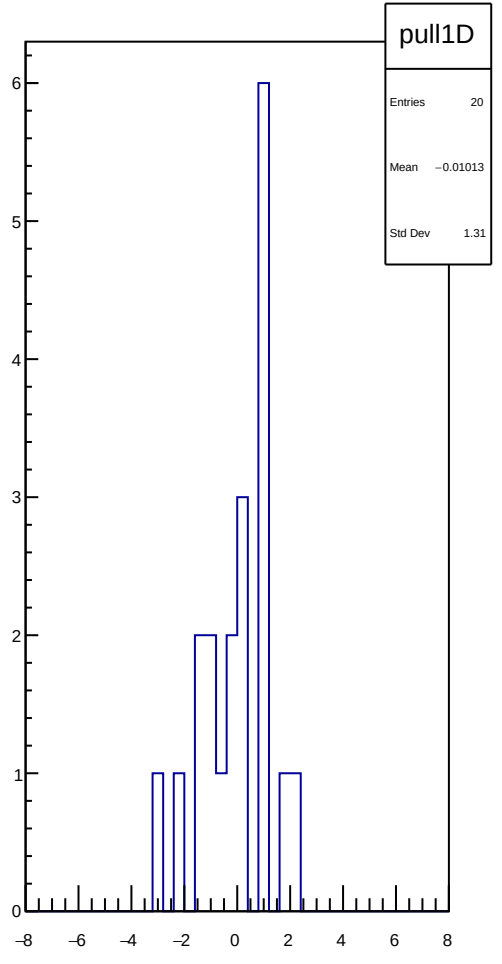

reg_asym_sam8_rms vs run
χ² / ndf 64.63 / 19
p0 54.66 ± 0.08587
56.5
56
55.5
55
54.5
54
53.5
53
52.5
52
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

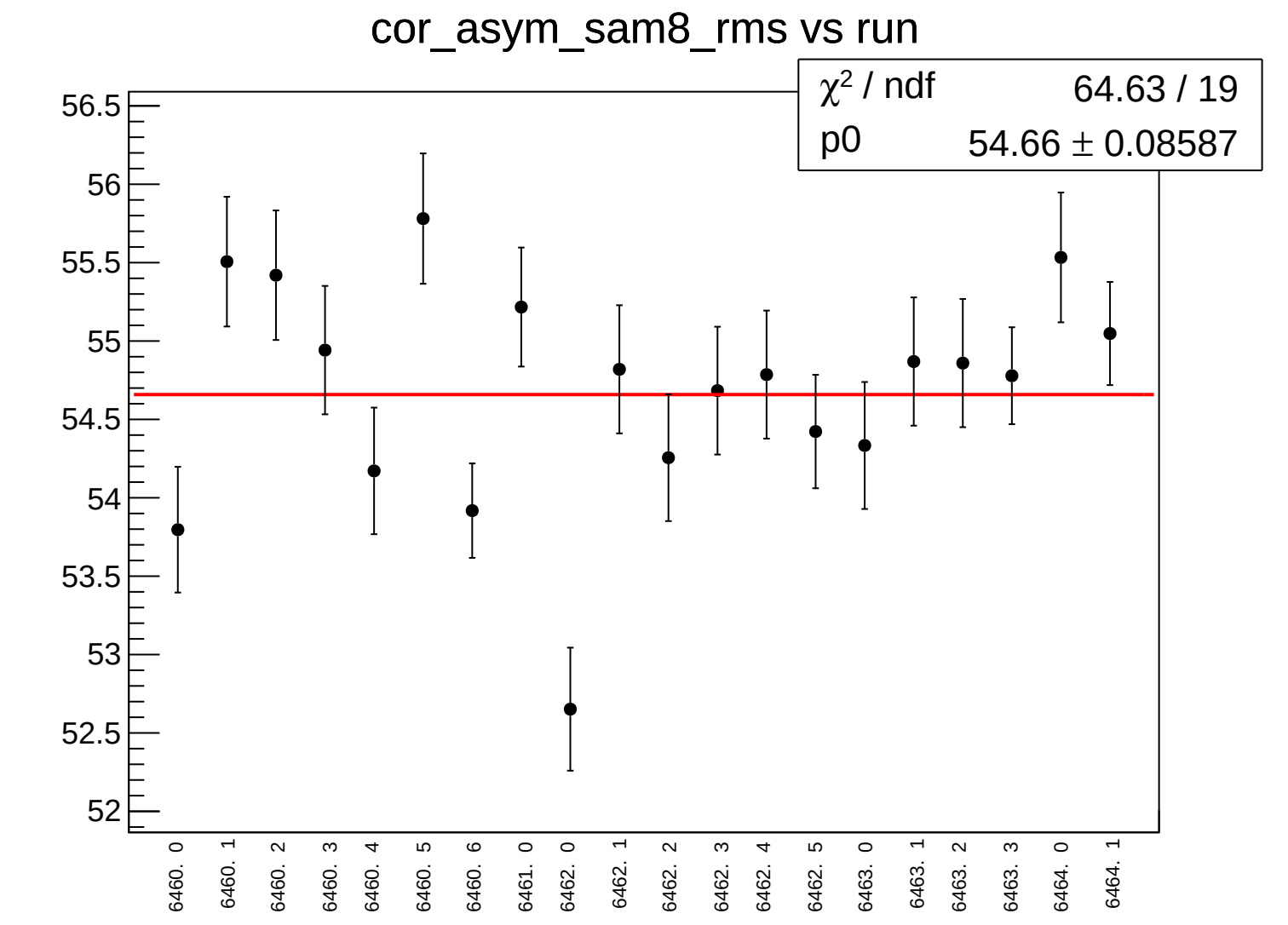

asym_sam8_reg_correction_mean vs run
χ² / ndf 11.92 / 19
p0 −222 ± 642.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 82.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

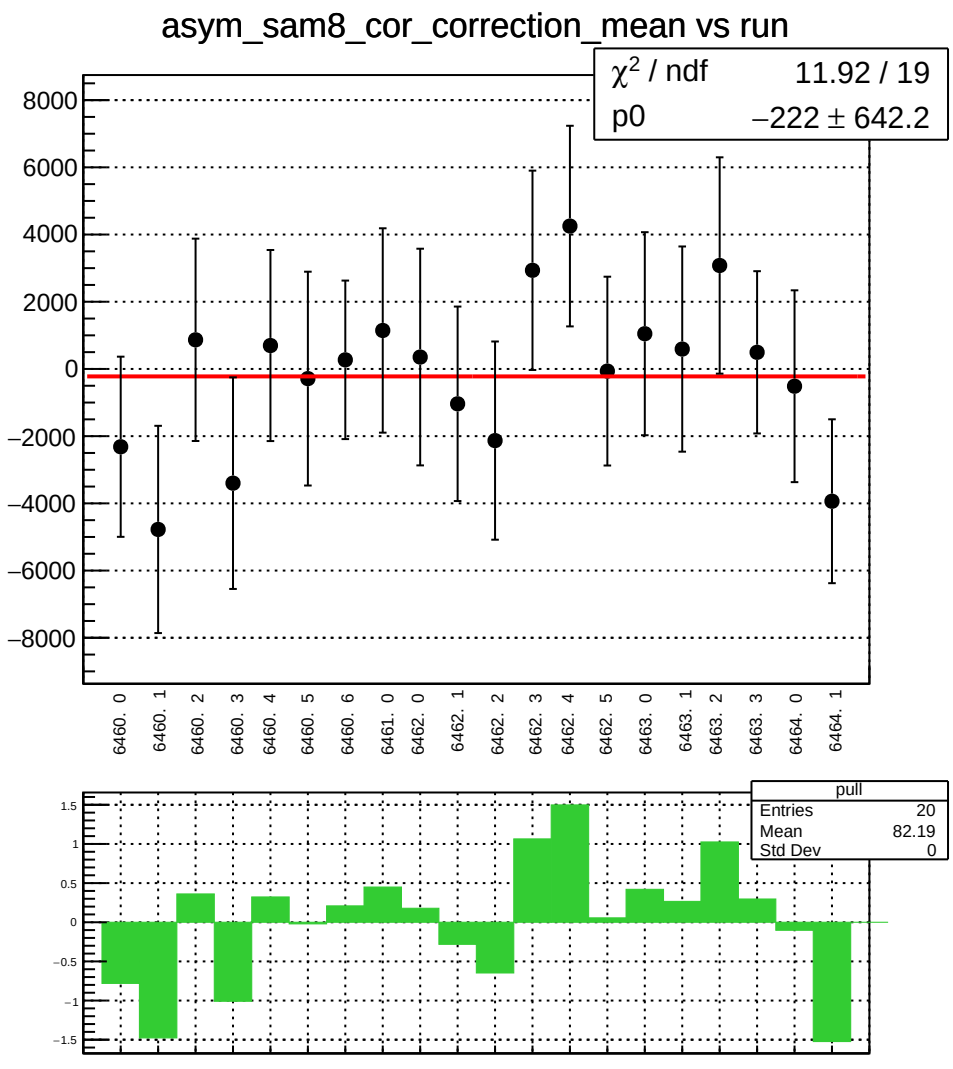

pull1D
Entries 20
Mean 0.01543
Std Dev 0.7719
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

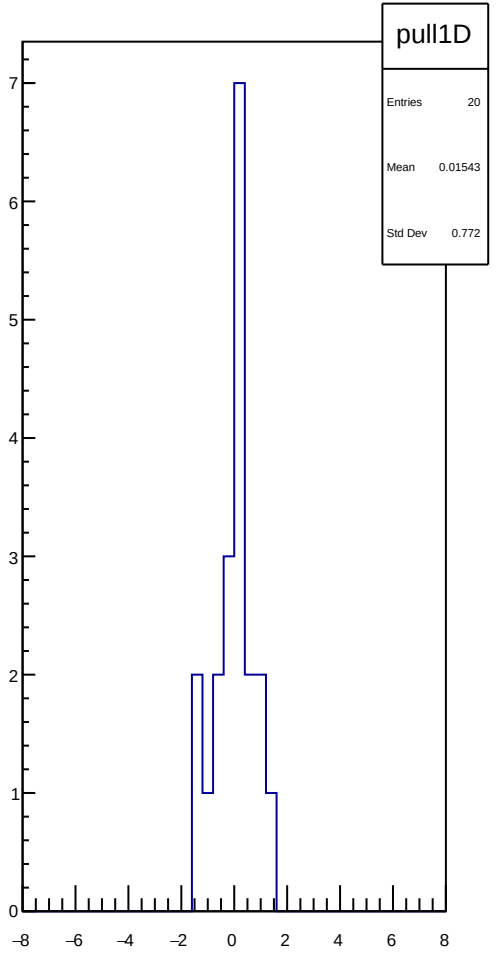

asym_sam8_reg_correction_rms vs run
χ² / ndf 1004 / 19
p0 288.7 ± 0.4541
320
310
300
290
280
270
260
250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

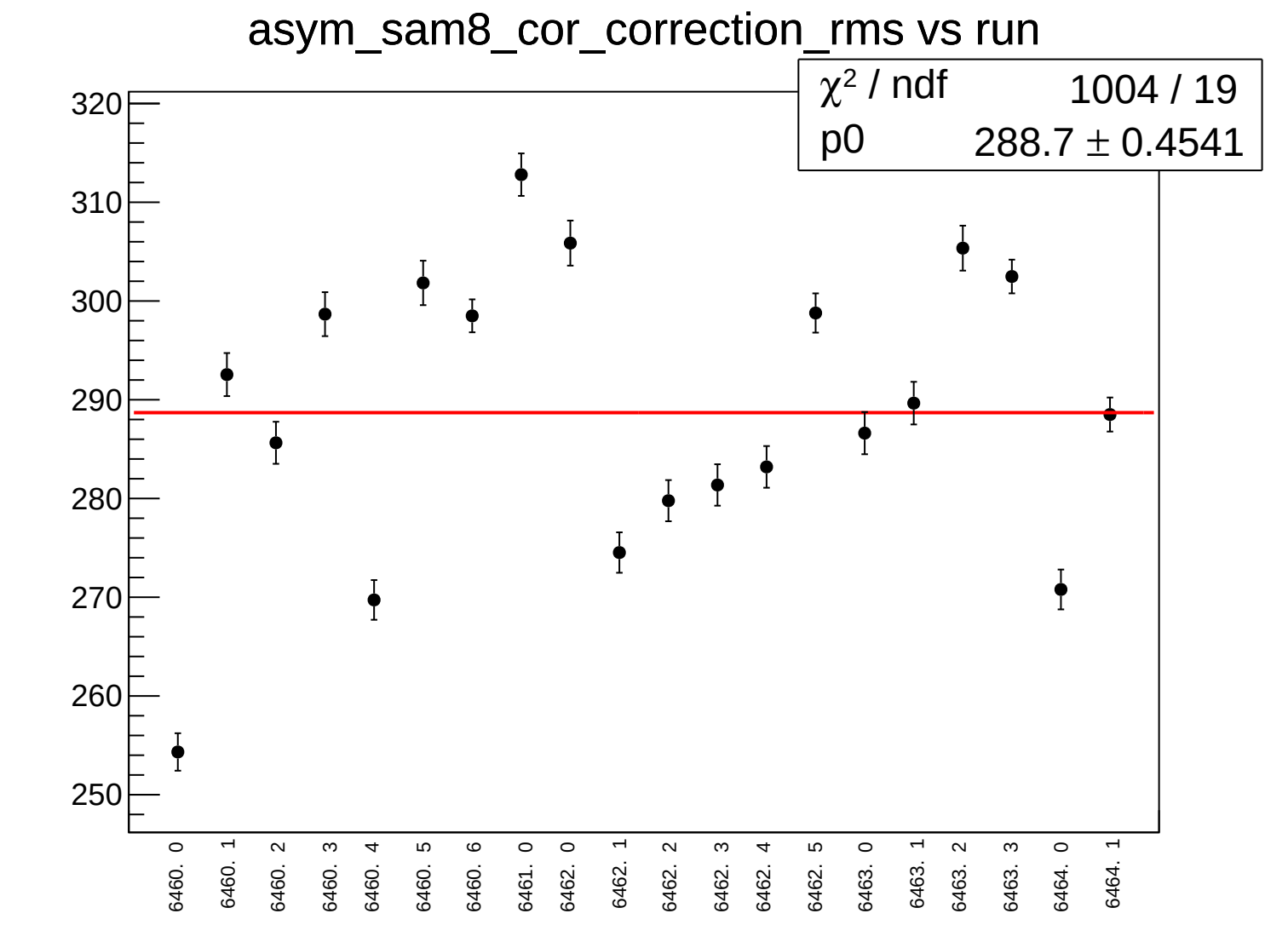

cor_asym_sam8_mean vs run
χ² / ndf 34.34 / 19
p0 235.1 ± 121.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 330.2
Std Dev 0
2
1
0
−1
−2
−3

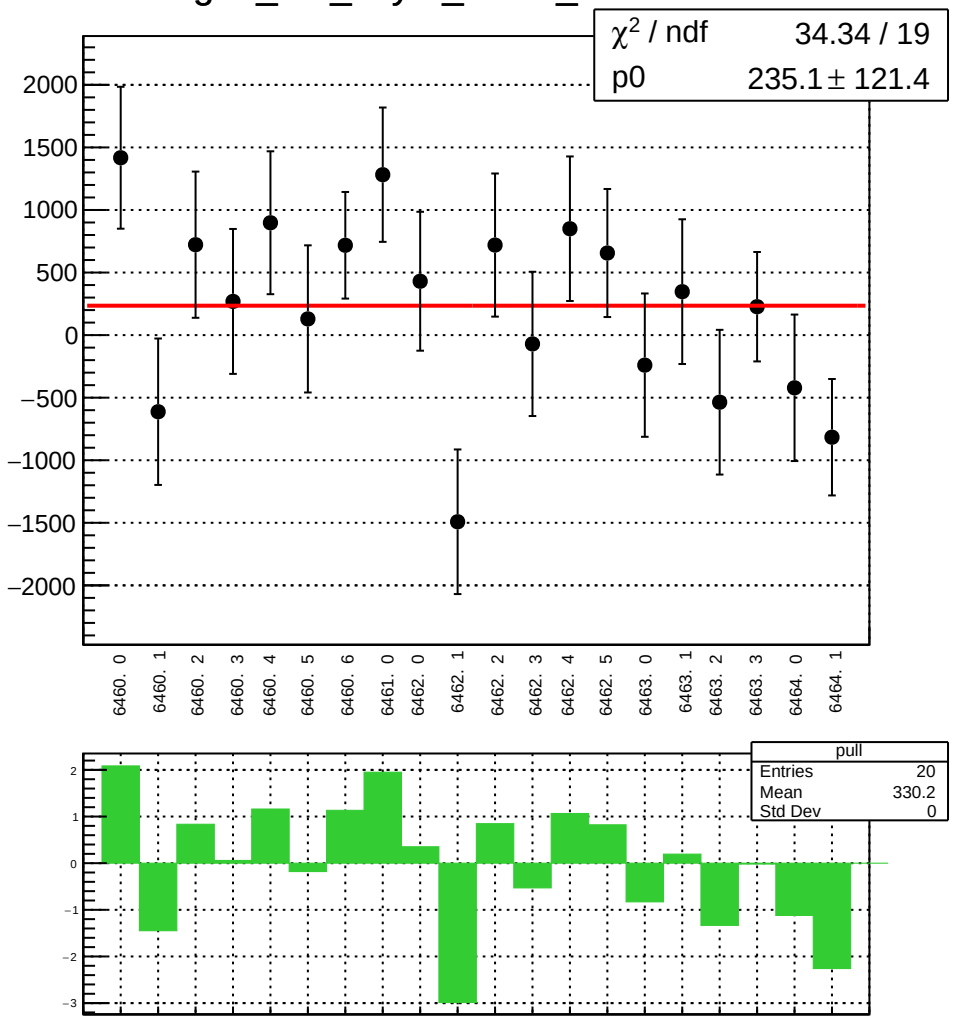

pull1D
Entries 20
Mean −0.01013
Std Dev 1.31
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

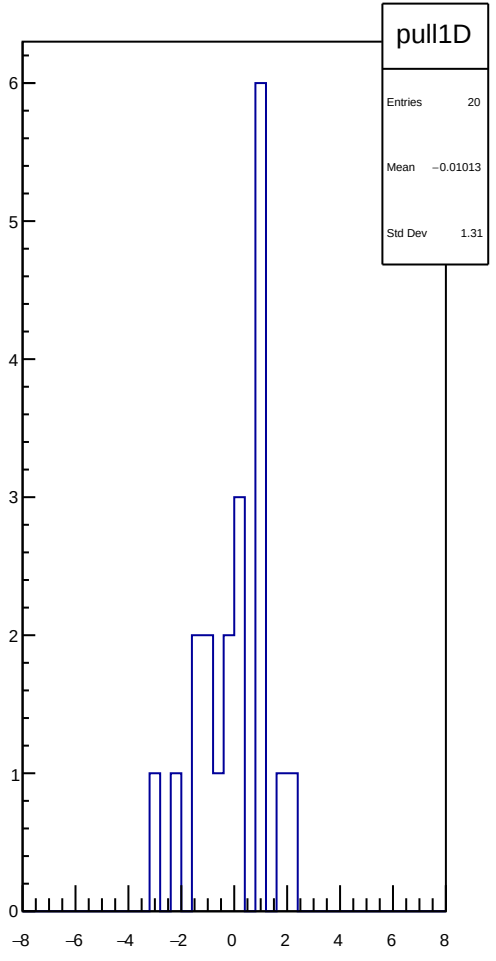

cor_asym_sam8_rms vs run
χ² / ndf 64.63 / 19
p0 54.66 ± 0.08587
56.5
56
55.5
55
54.5
54
53.5
53
52.5
52
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

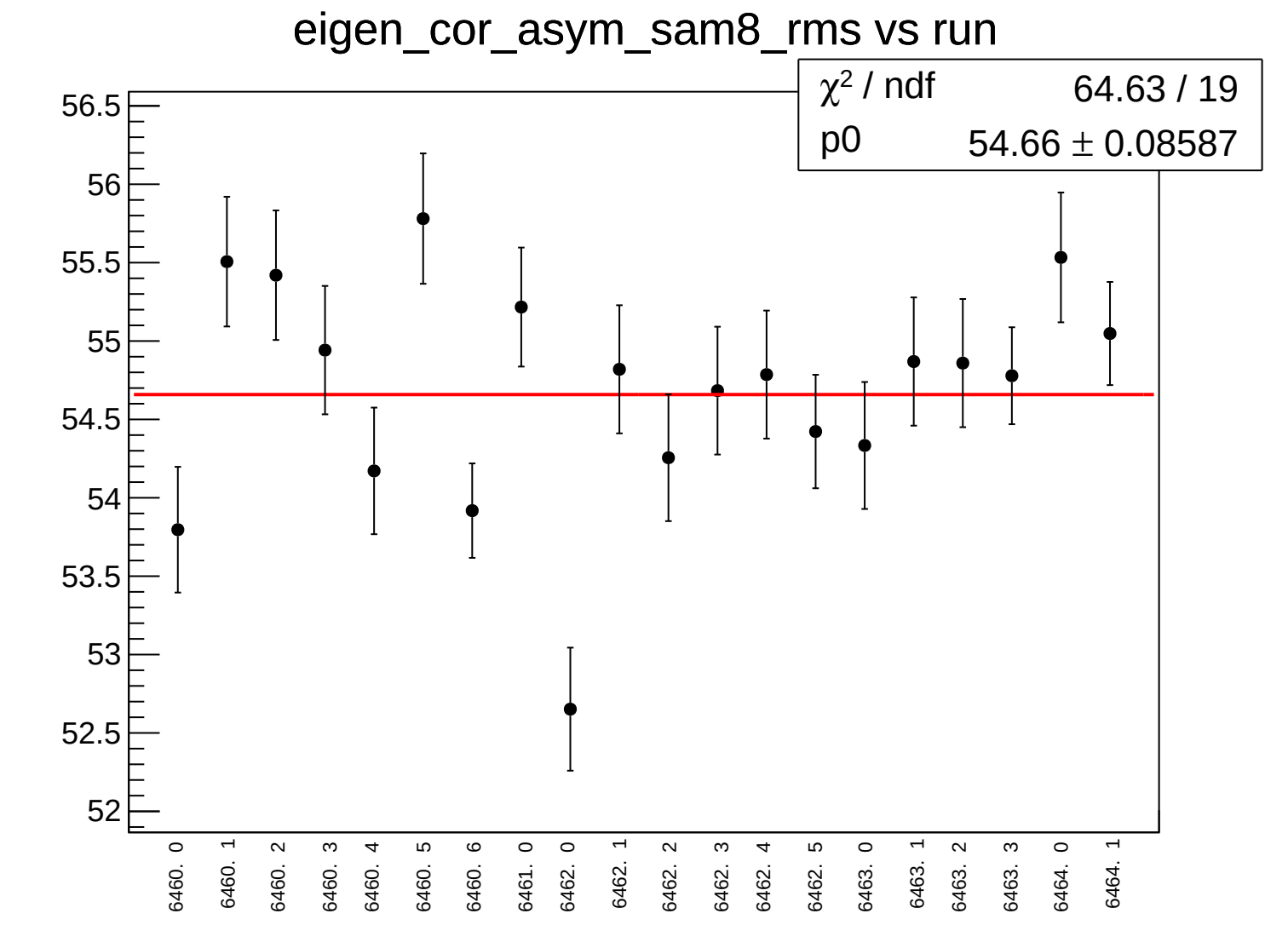

asym_sam8_cor_correction_mean vs run
χ² / ndf 11.92 / 19
p0 −222 ± 642.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 82.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

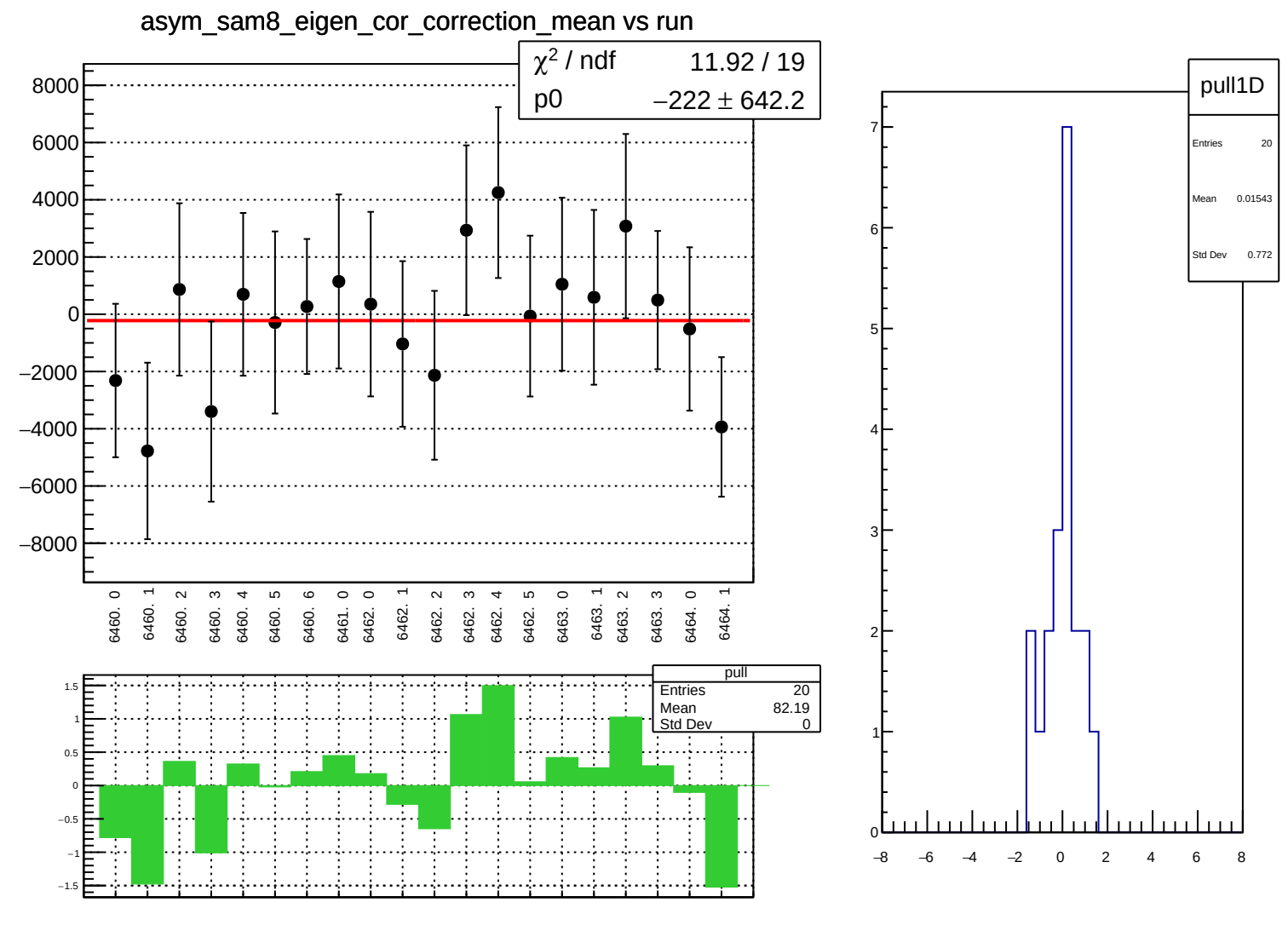

pull1D
Entries 20
Mean 0.01543
Std Dev 0.772
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

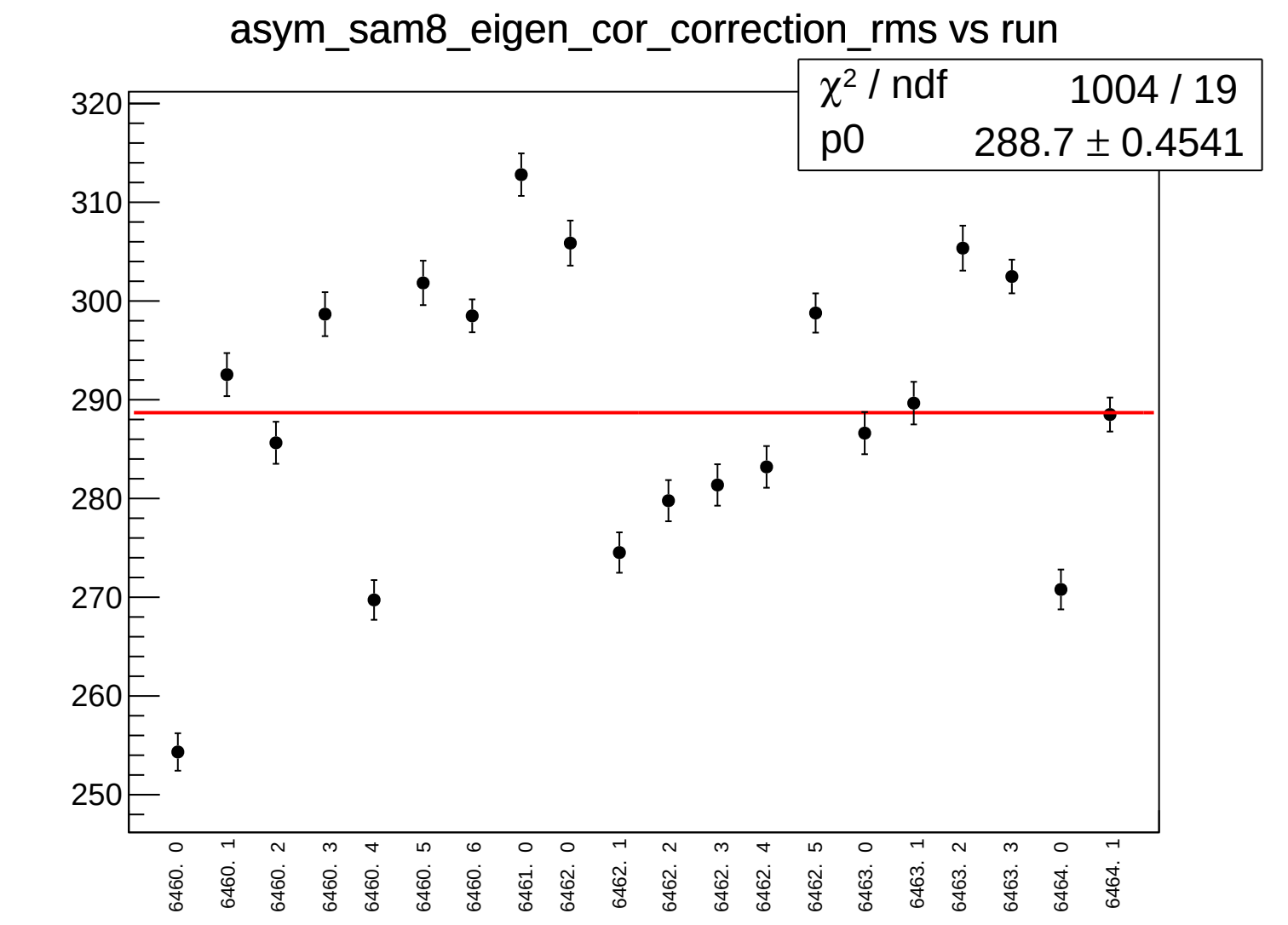

asym_sam8_cor_correction_rms vs run
χ² / ndf 1004 / 19
p0 288.7 ± 0.4541
320
310
300
290
280
270
260
250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

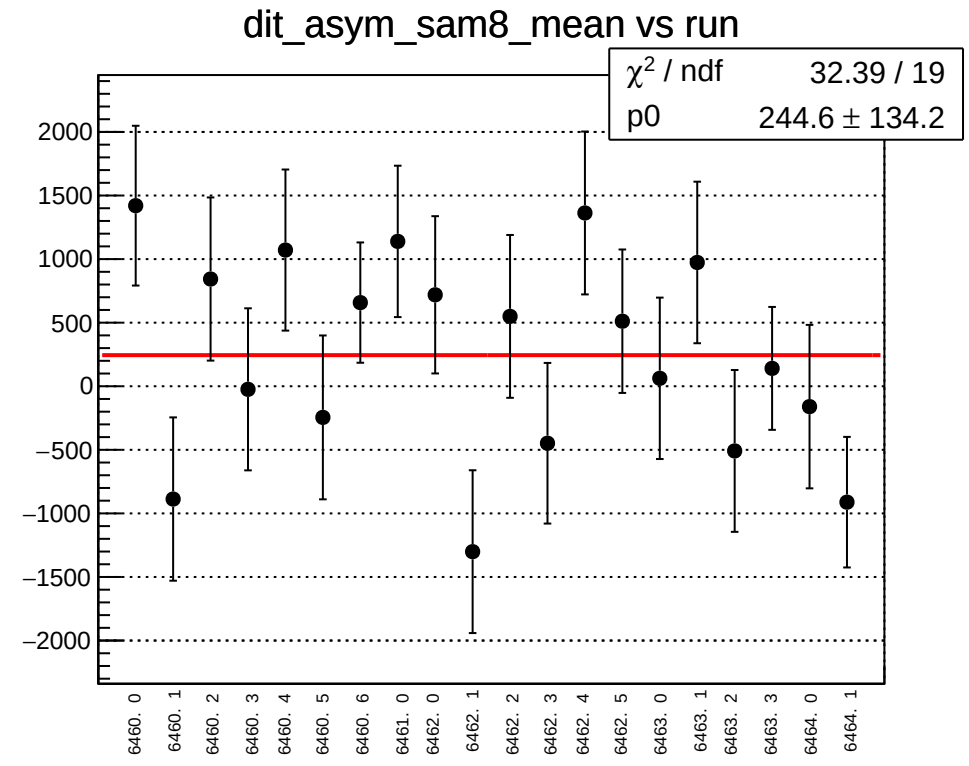

eigen_cor_asym_sam8_mean vs run
χ² / ndf 34.34 / 19
p0 235.1 ± 121.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 330.2
Std Dev 0
2
1
0
−1
−2
−3

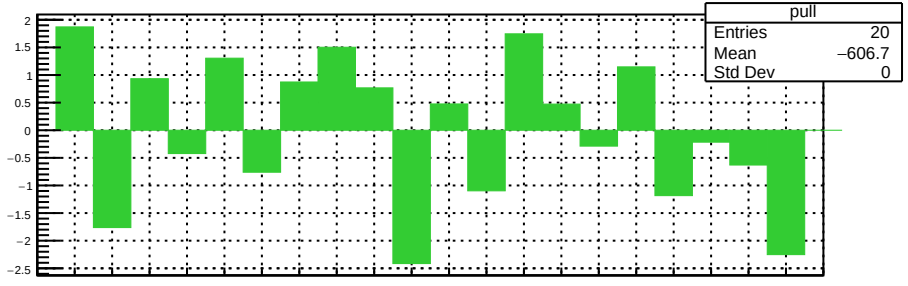

pull1D
Entries 20
Mean −0.01013
Std Dev 1.31
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

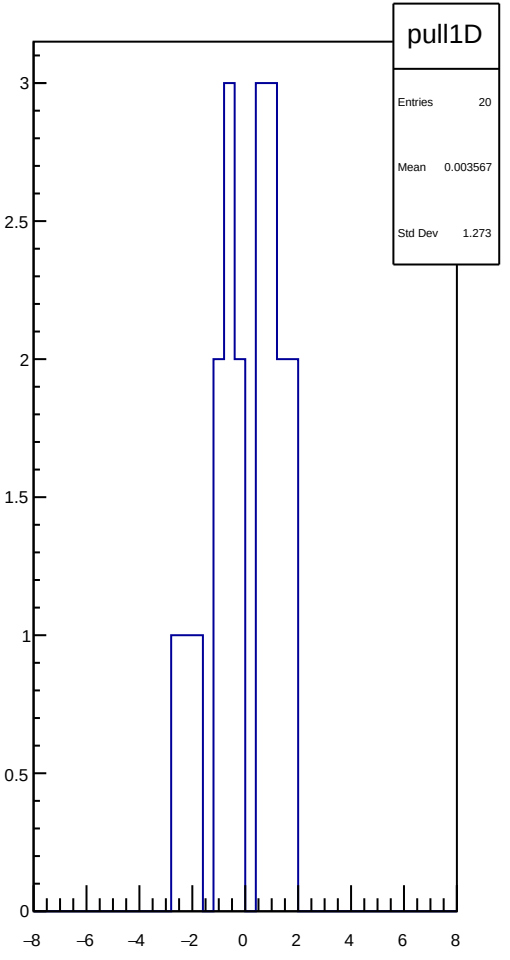

eigen_cor_asym_sam8_rms vs run
χ² / ndf 64.63 / 19
p0 54.66 ± 0.08587
56.5
56
55.5
55
54.5
54
53.5
53
52.5
52
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

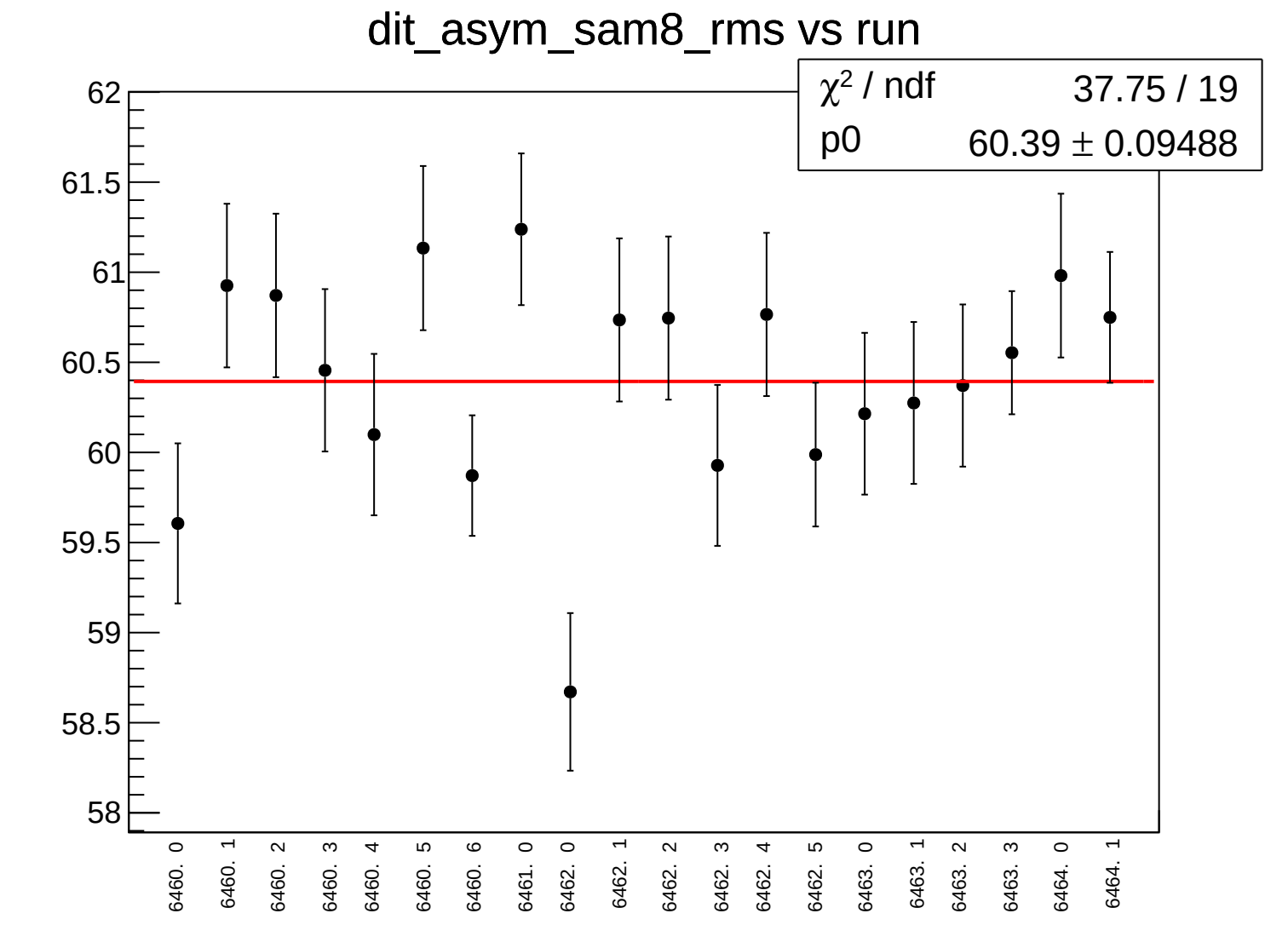

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 11.92 / 19
p0 −222 ± 642.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 82.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01543
Std Dev 0.772
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

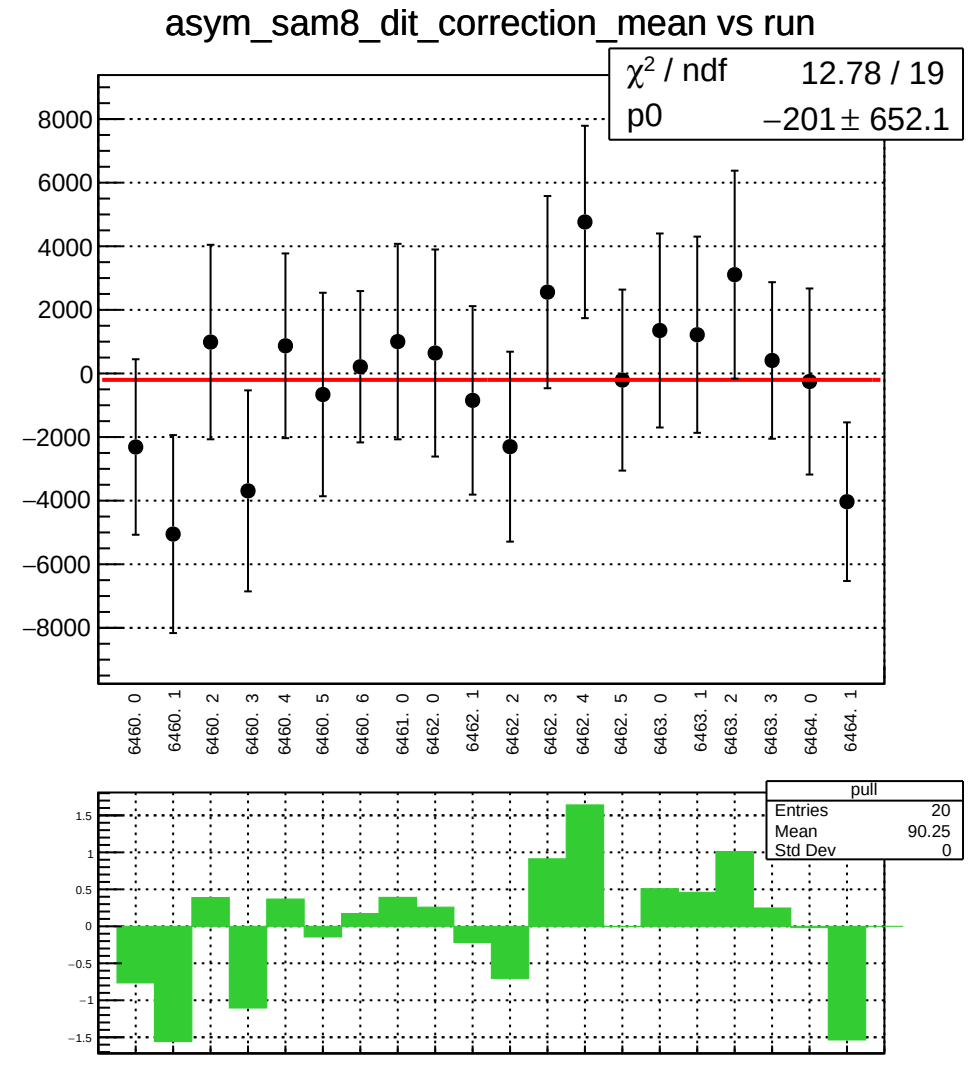

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 1004 / 19
p0 288.7 ± 0.4541
320
310
300
290
280
270
260
250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

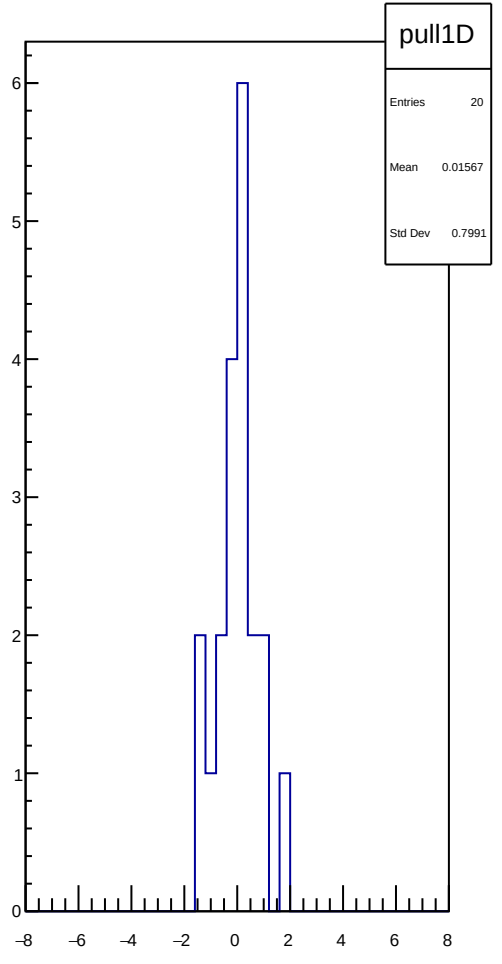

dit_asym_sam8_mean vs run
χ² / ndf 32.39 / 19
p0 244.6 ± 134.2
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

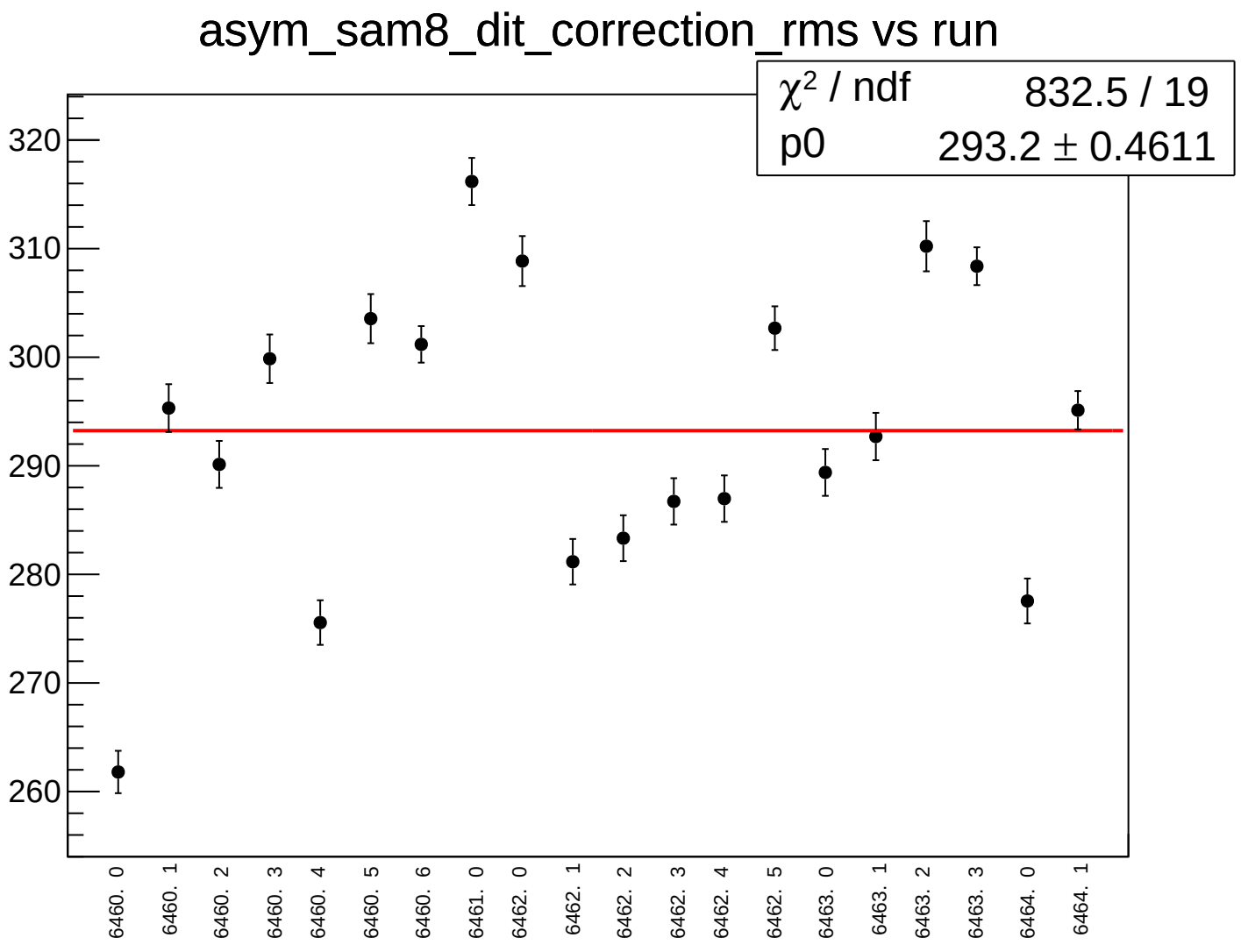

pull
Entries 20
Mean −606.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

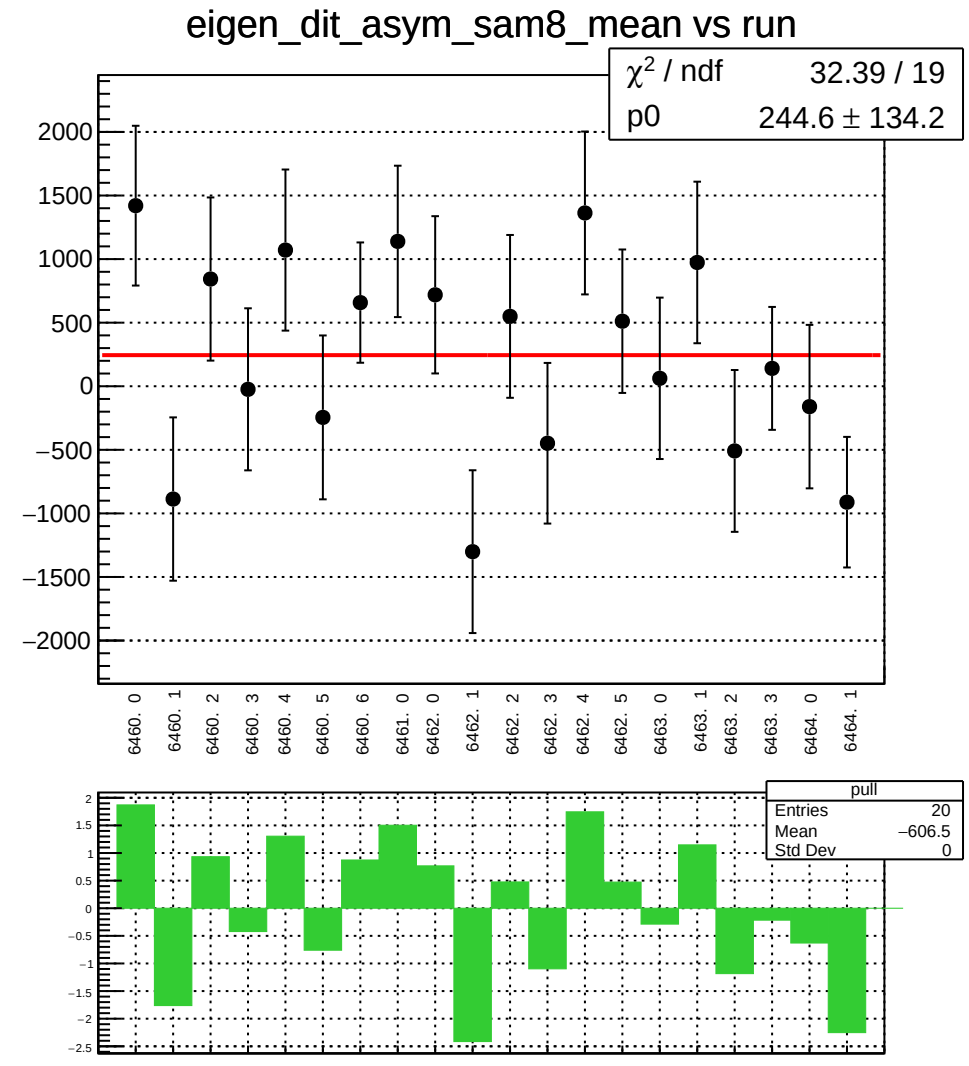

pull1D
Entries 20
Mean 0.003567
Std Dev 1.273
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

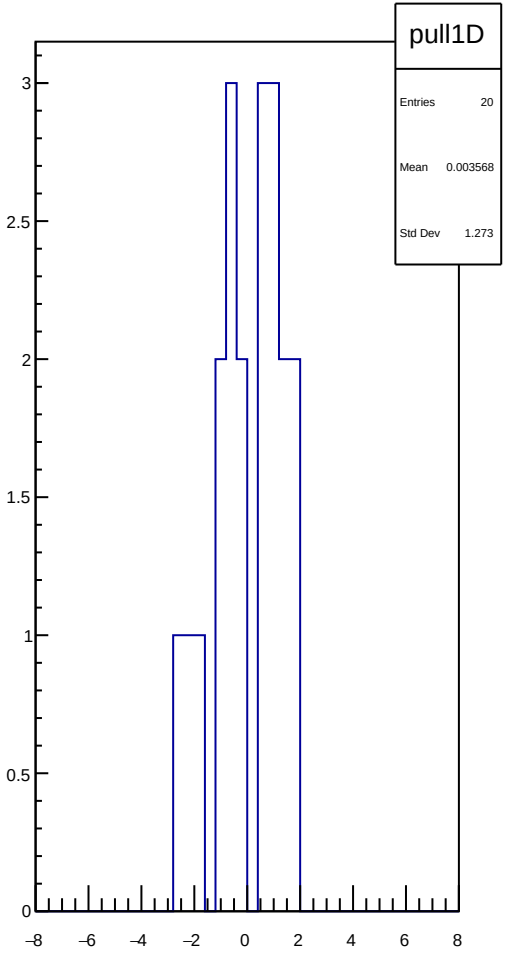

dit_asym_sam8_rms vs run
χ² / ndf 37.75 / 19
p0 60.39 ± 0.09488
62
61.5
61
60.5
60
59.5
59
58.5
58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

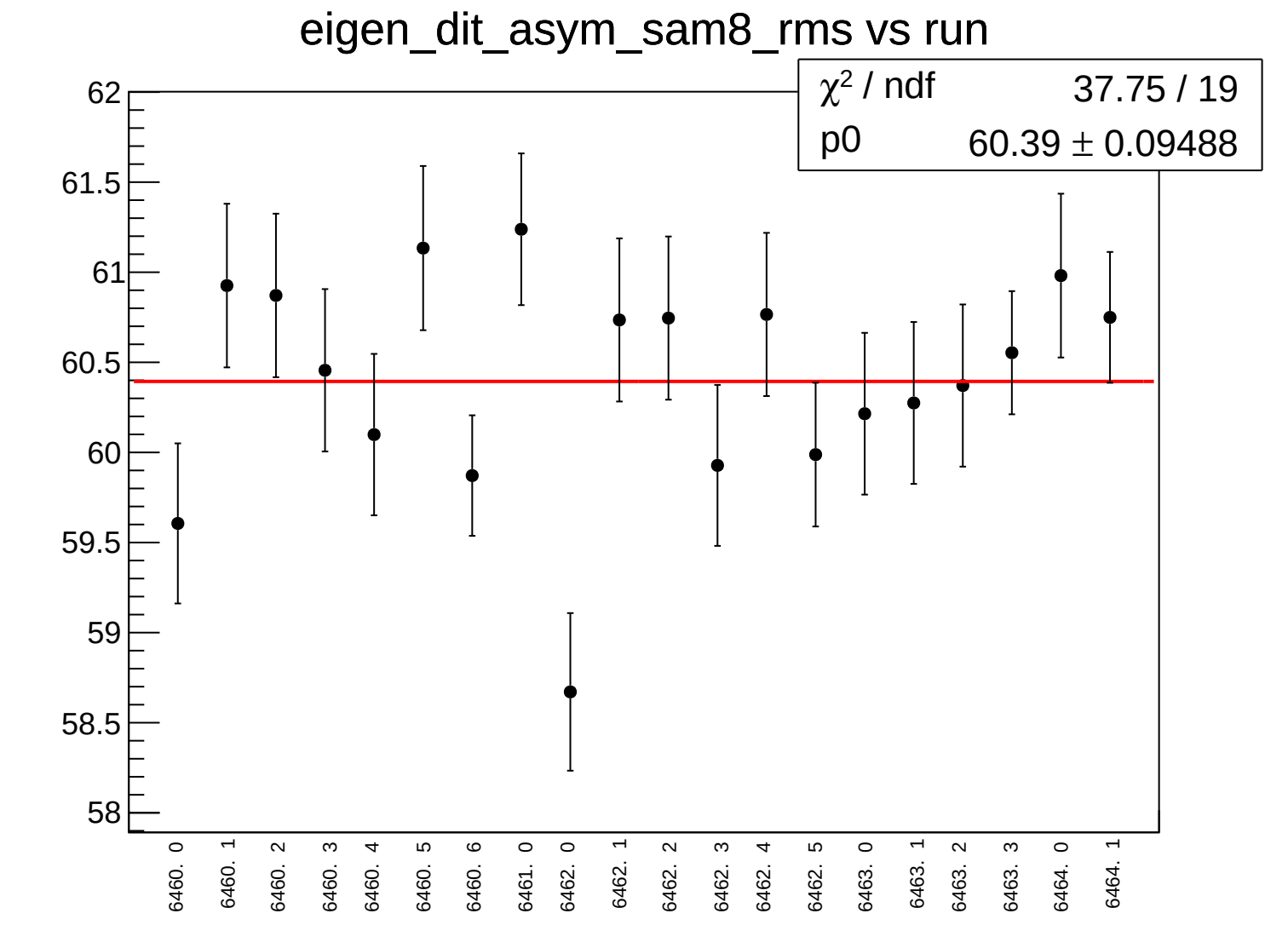

asym_sam8_dit_correction_mean vs run
χ² / ndf 12.78 / 19
p0 −201 ± 652.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 90.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

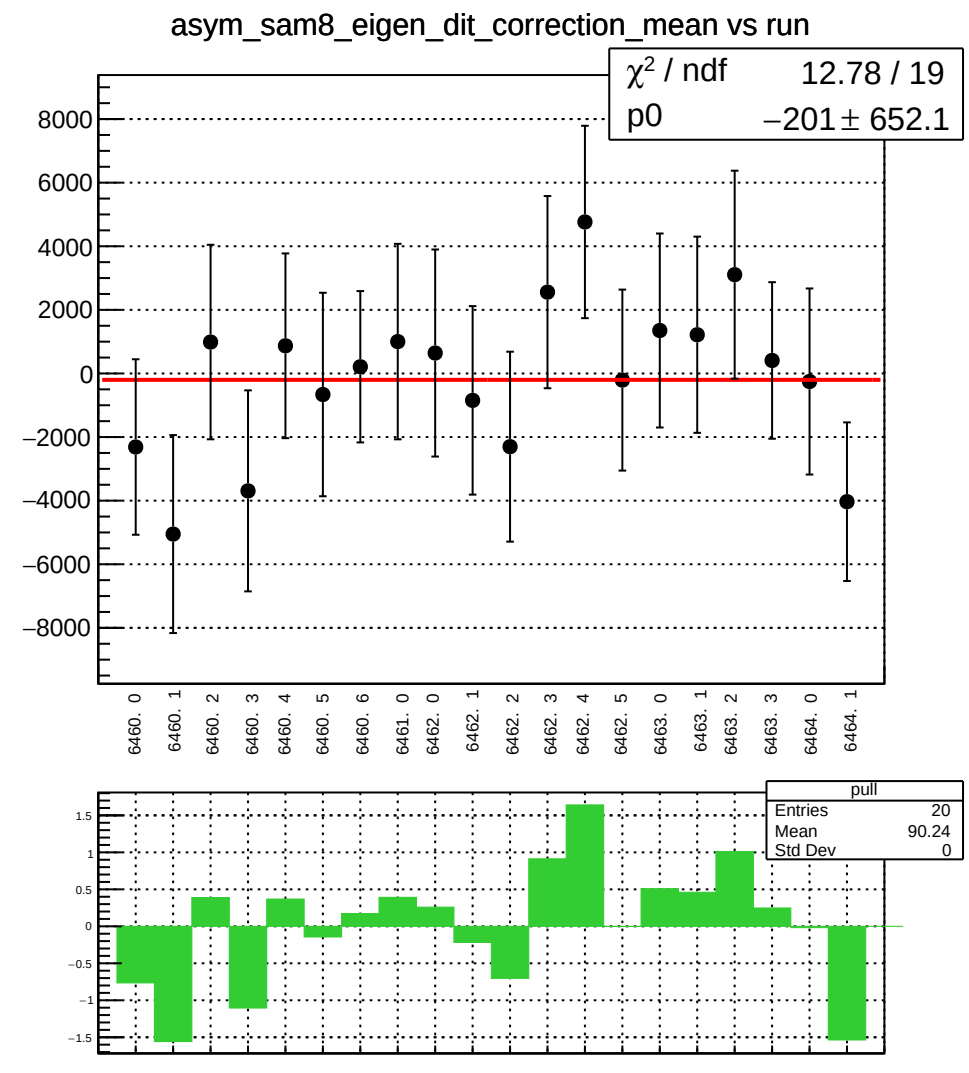

pull1D
Entries 20
Mean 0.01567
Std Dev 0.7991
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

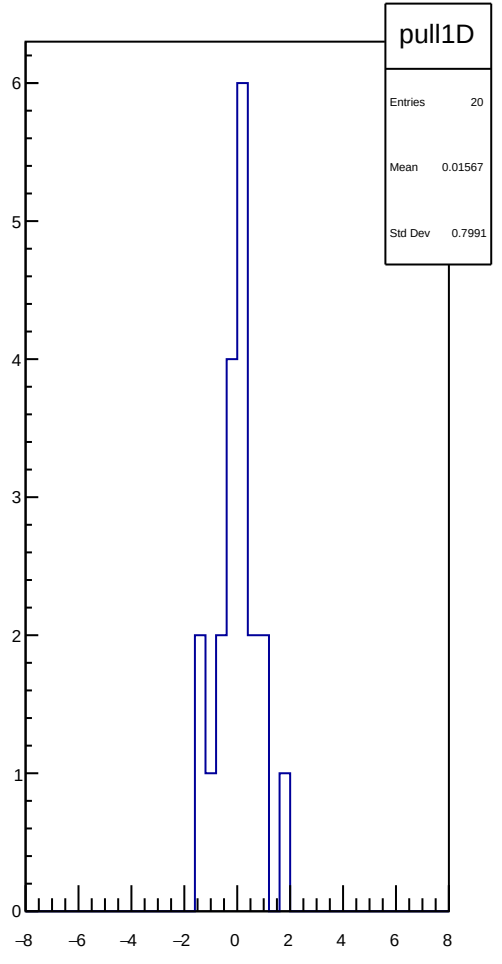

asym_sam8_dit_correction_rms vs run
χ² / ndf 832.5 / 19
p0 293.2 ± 0.4611
320
310
300
290
280
270
260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

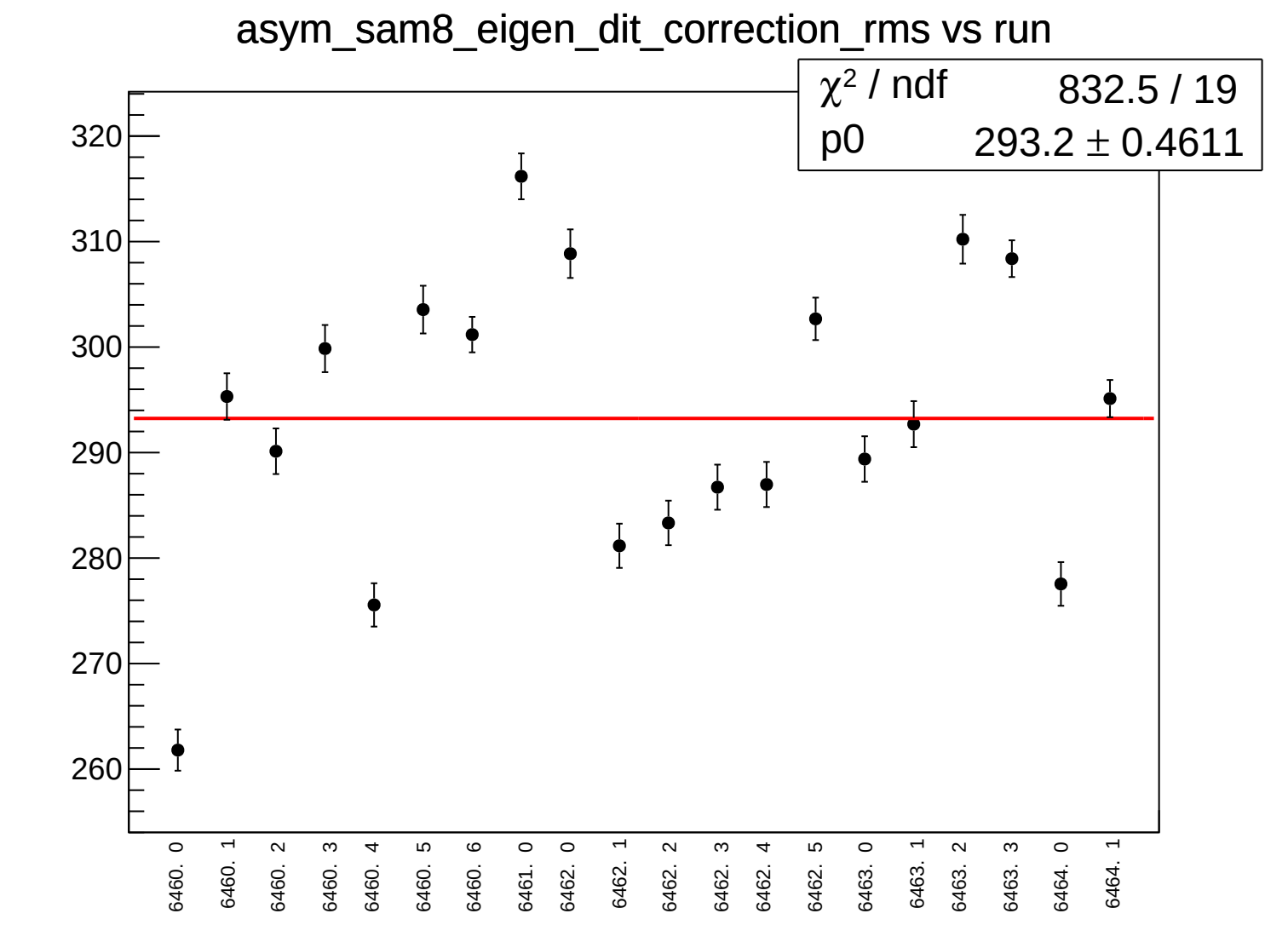

eigen_dit_asym_sam8_mean vs run
χ² / ndf 32.39 / 19
p0 244.6 ± 134.2
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −606.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

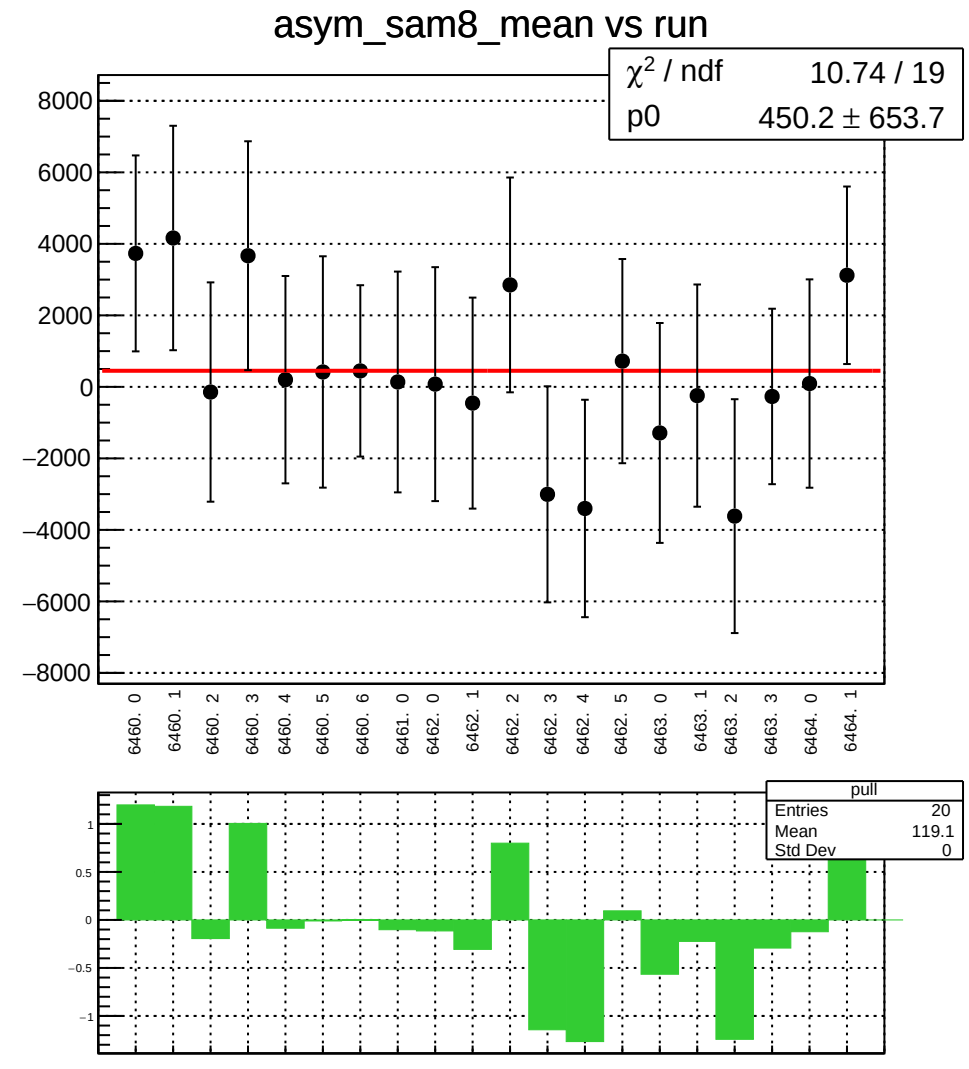

pull1D
Entries 20
Mean 0.003568
Std Dev 1.273
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

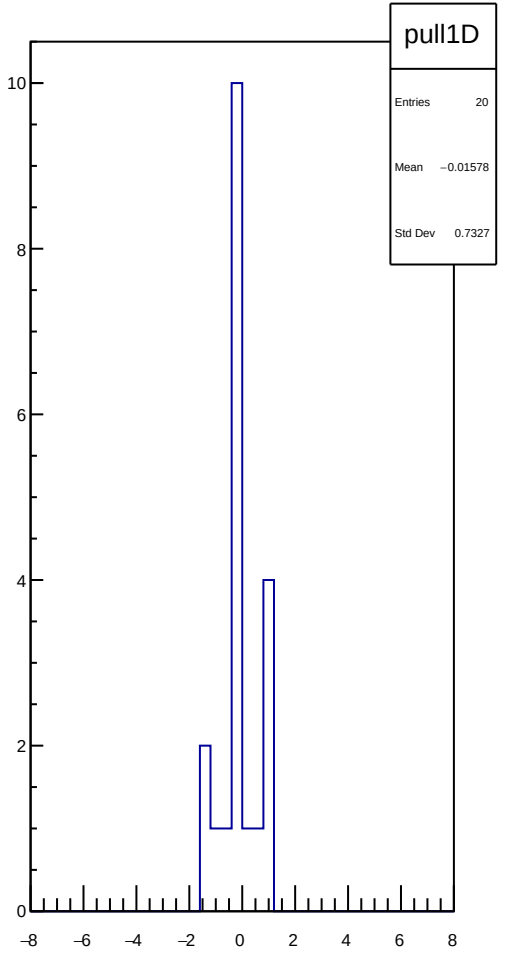

eigen_dit_asym_sam8_rms vs run
χ² / ndf 37.75 / 19
p0 60.39 ± 0.09488
62
61.5
61
60.5
60
59.5
59
58.5
58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

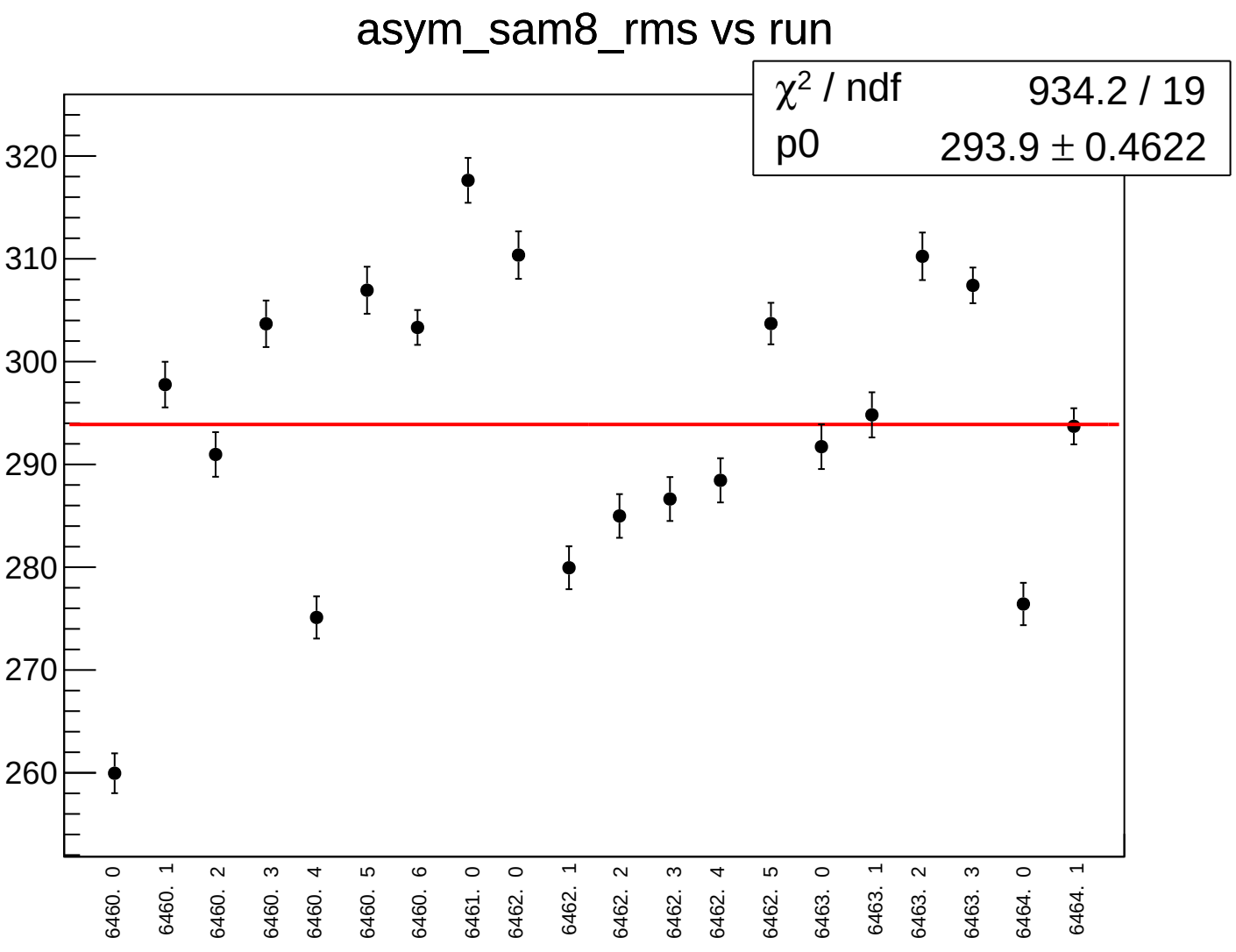

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 12.78 / 19
p0 −201 ± 652.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 90.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

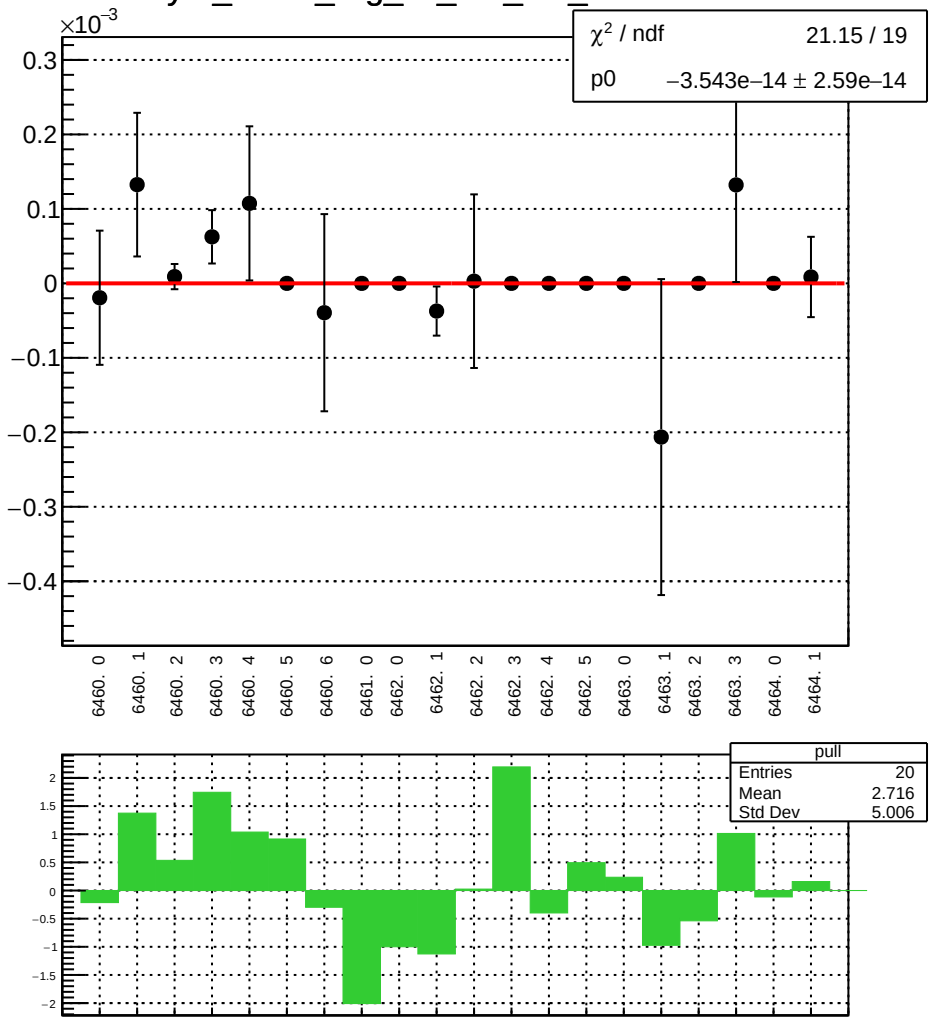

pull1D
Entries 20
Mean 0.01567
Std Dev 0.7991
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

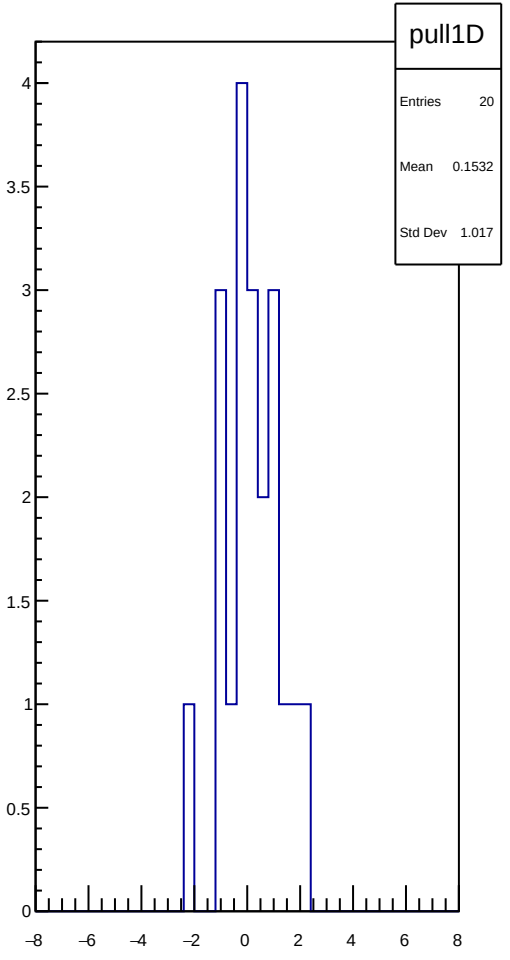

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 832.5 / 19
p0 293.2 ± 0.4611
320
310
300
290
280
270
260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

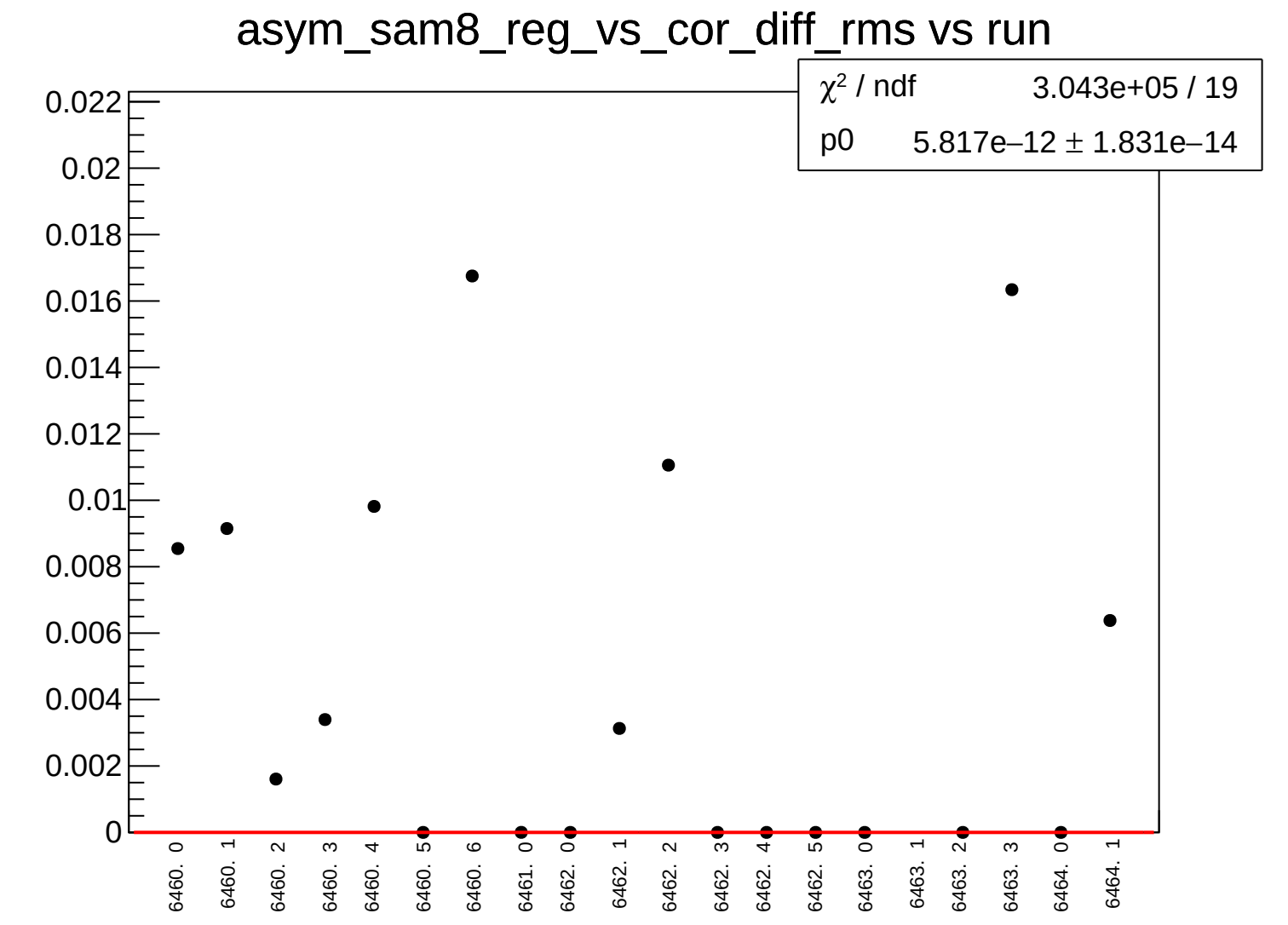

asym_sam8_mean vs run
χ² / ndf 10.74 / 19
p0 450.2 ± 653.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 119.1
Std Dev 0
1
0.5
0
−0.5
−1

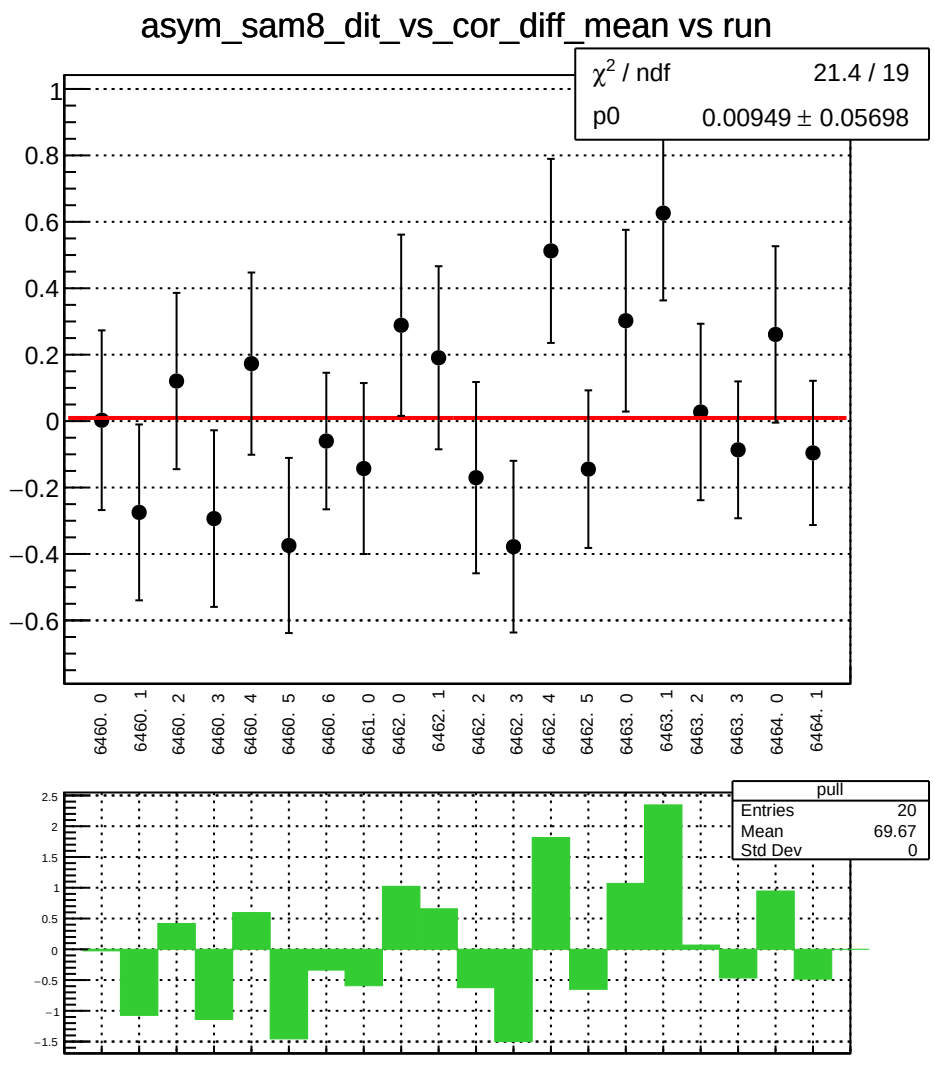

pull1D
Entries 20
Mean −0.01578
Std Dev 0.7327
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

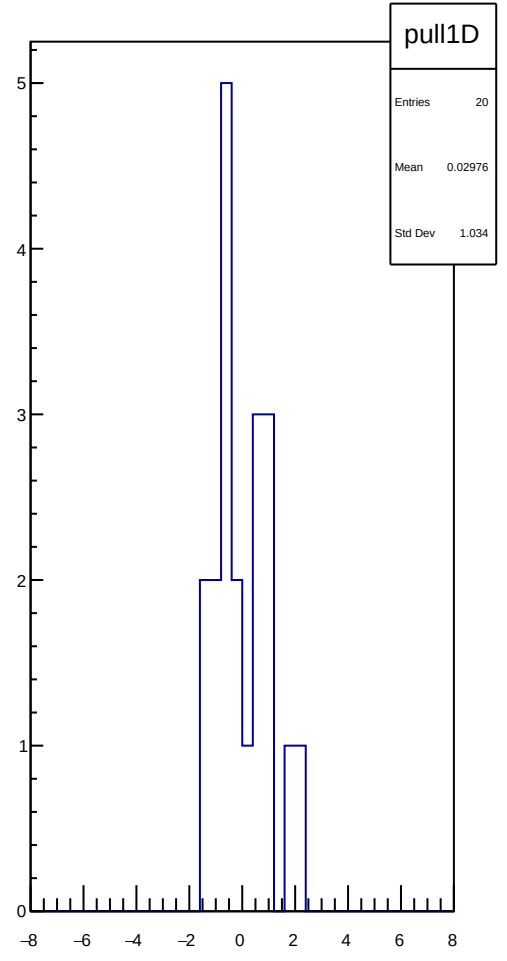

asym_sam8_rms vs run
χ² / ndf 934.2 / 19
p0 293.9 ± 0.4622
320
310
300
290
280
270
260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

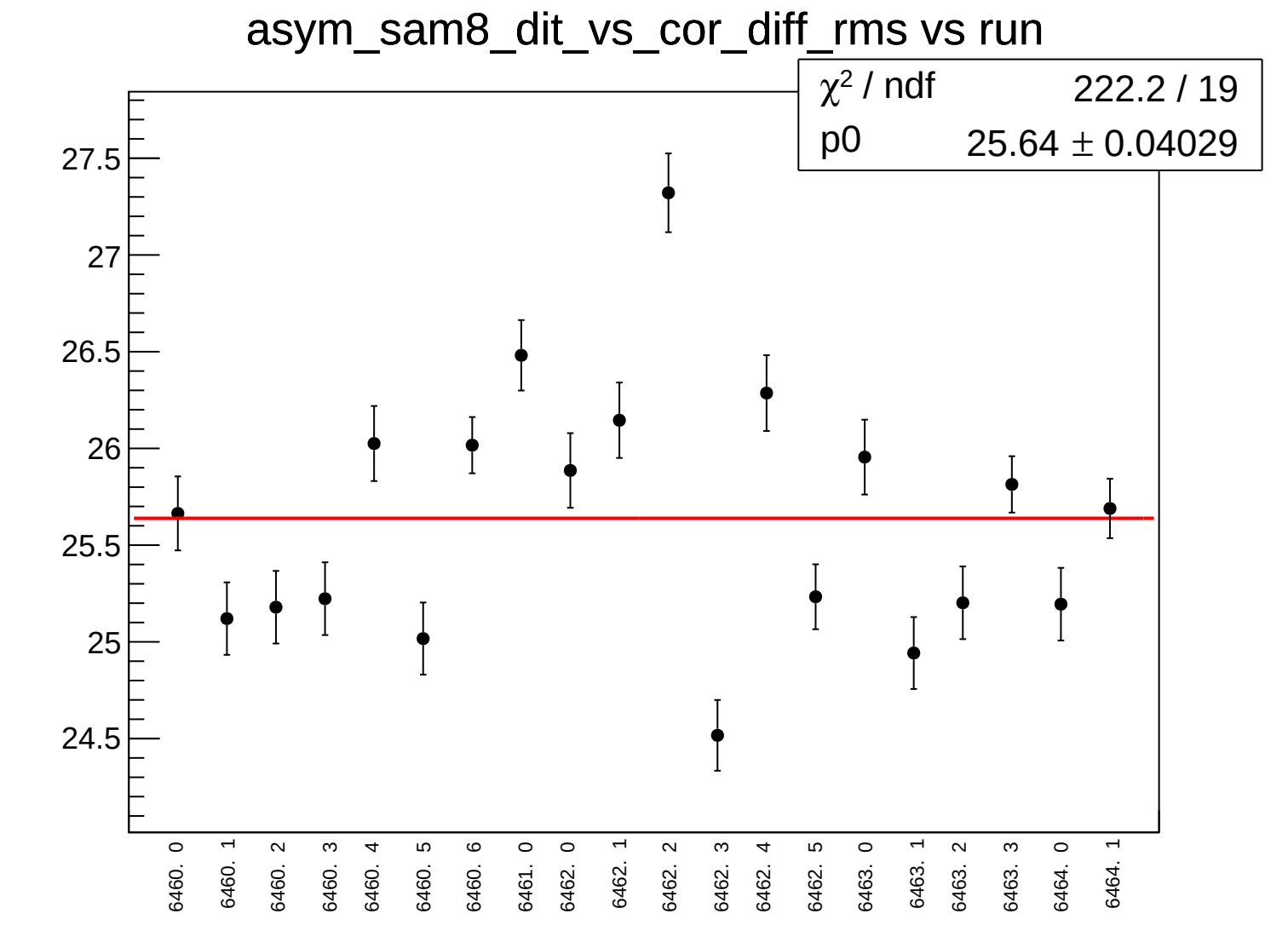

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 21.15 / 19
p0 −3.543e−14 ± 2.59e−14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.716
Std Dev 5.006
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

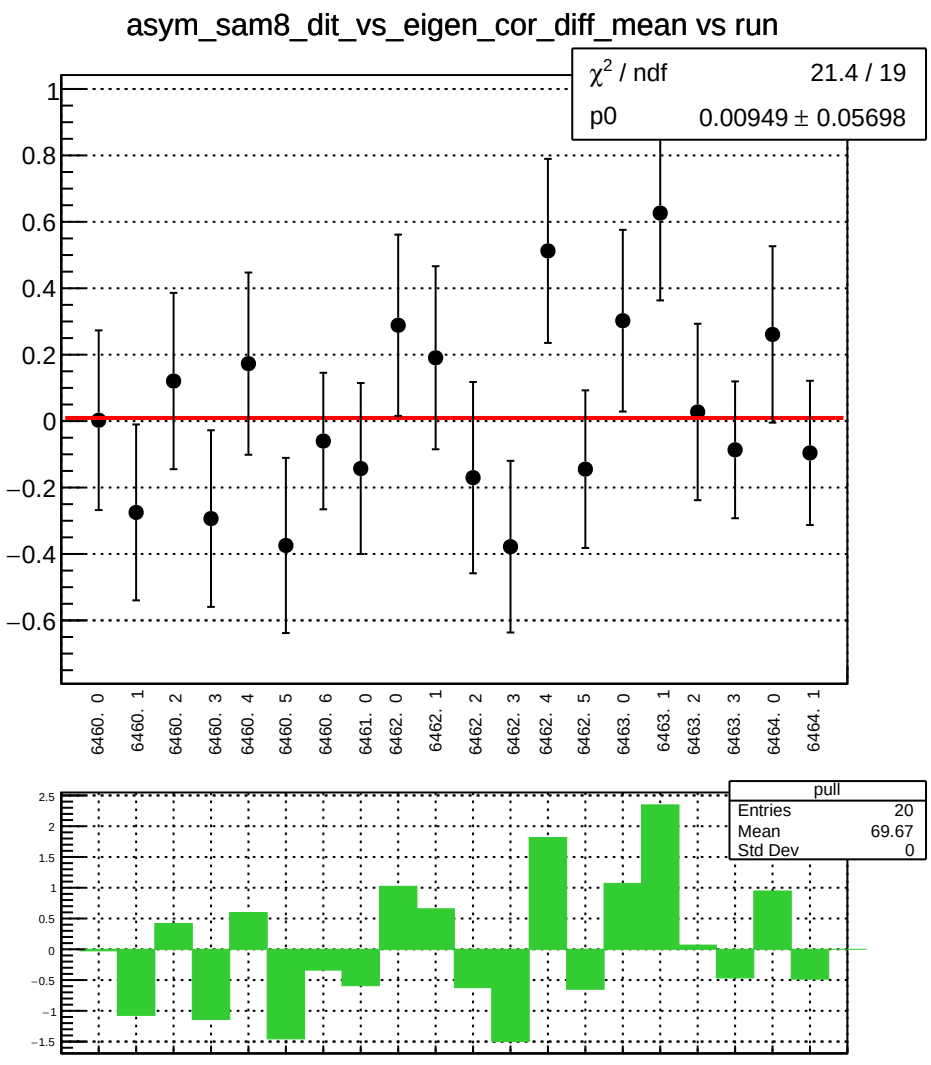

pull1D
Entries 20
Mean 0.1532
Std Dev 1.017
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

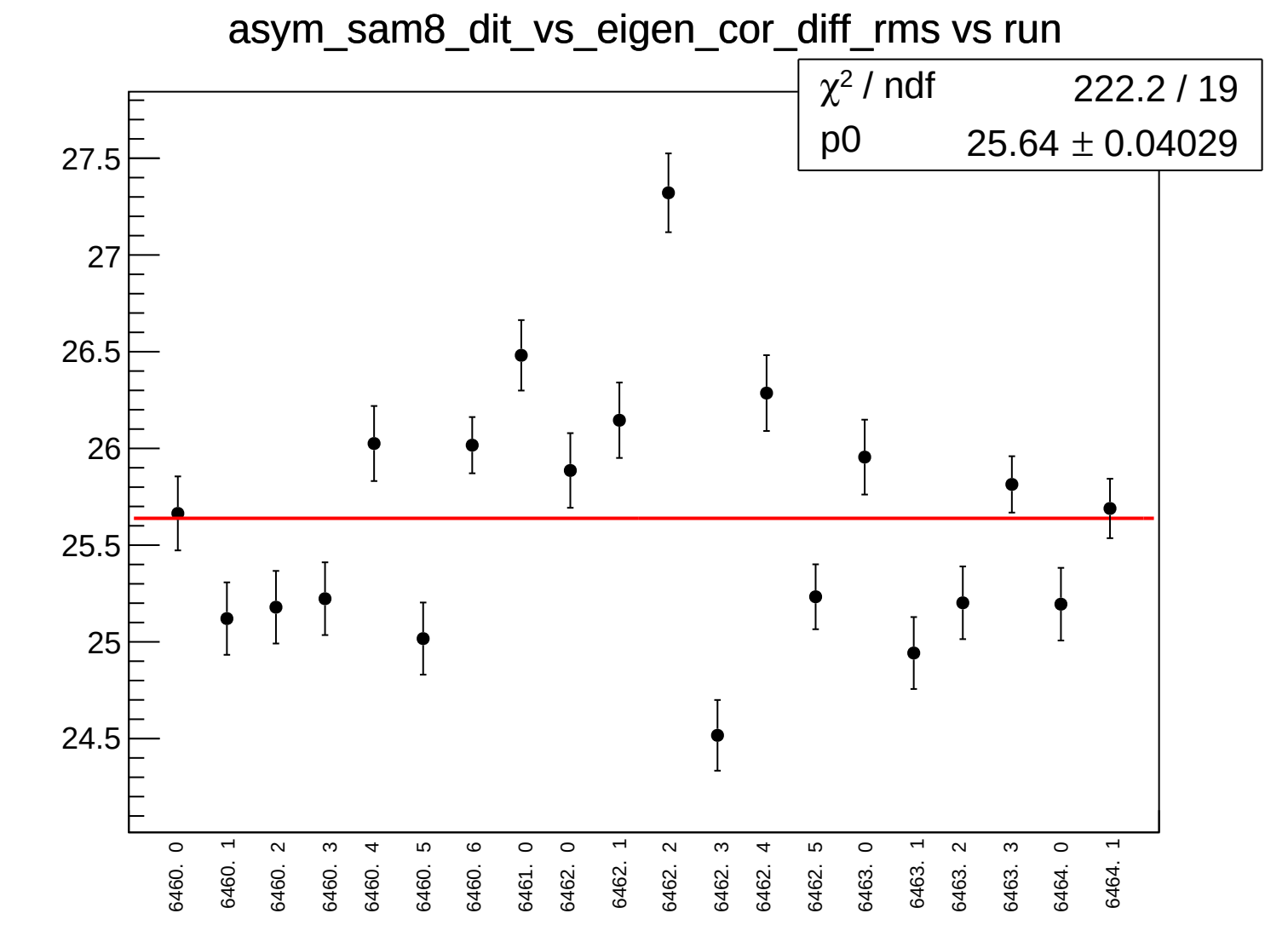

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 3.043e+05 / 19
p0 5.817e−12 ± 1.831e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

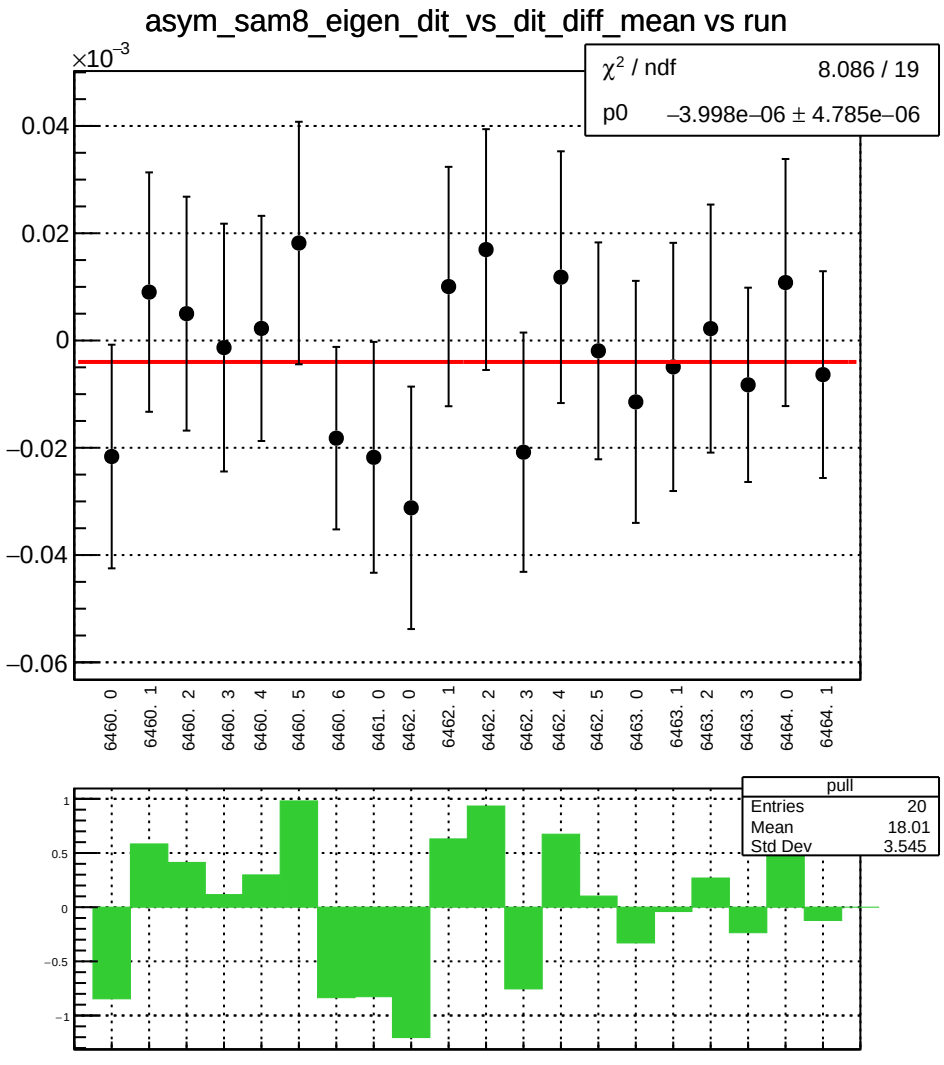

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 21.4 / 19
p0 0.00949 ± 0.05698
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

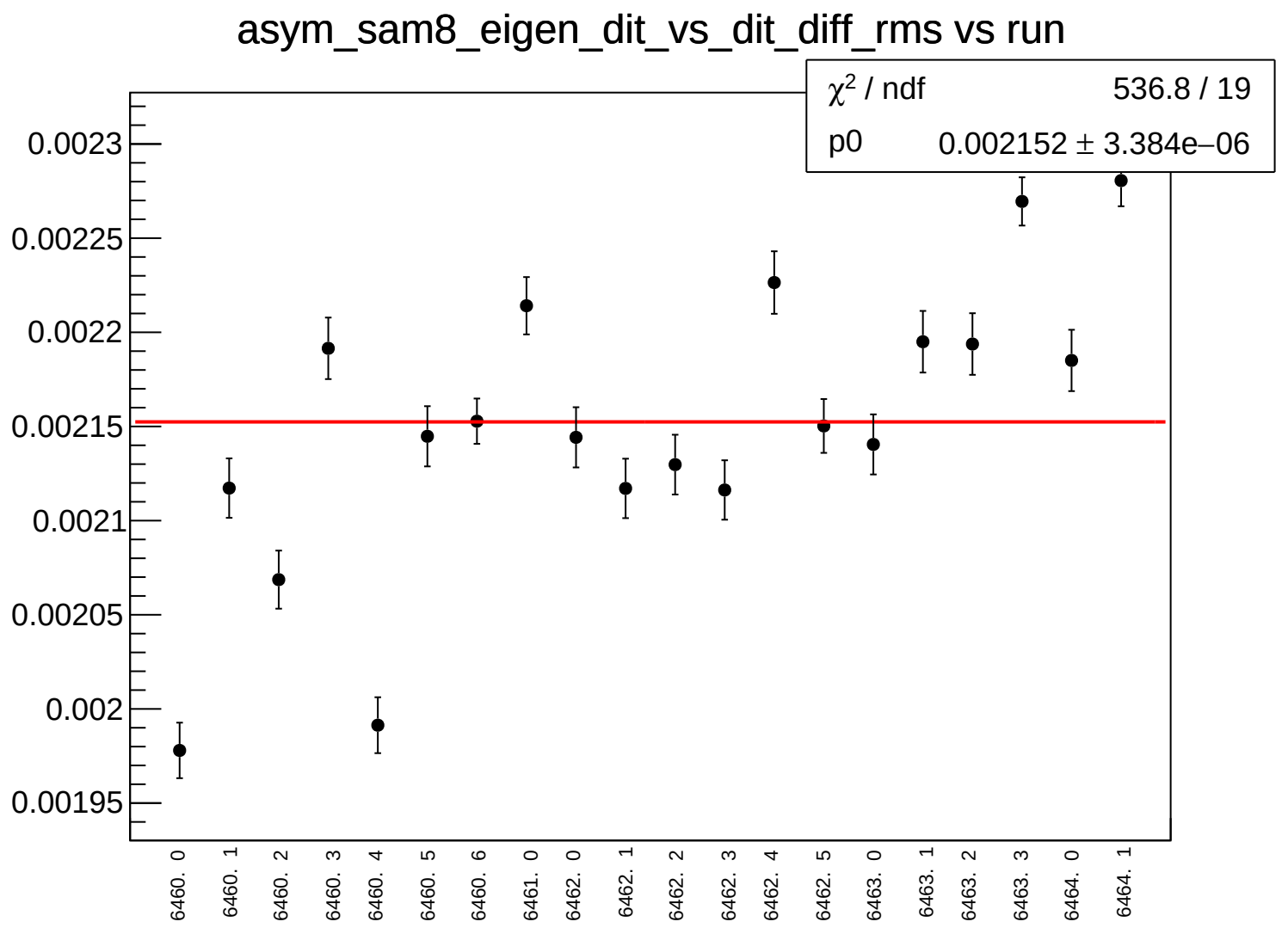

pull1D
Entries 20
Mean 0.02976
Std Dev 1.034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

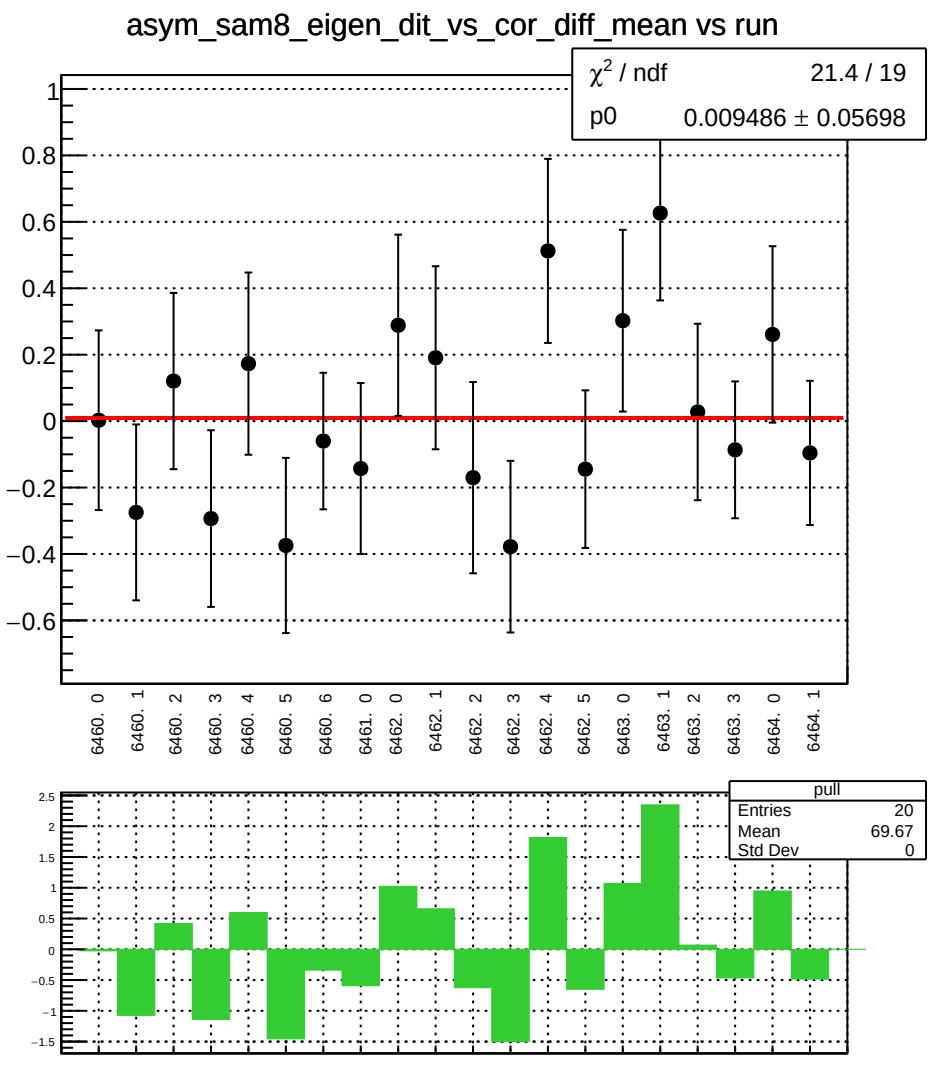

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 222.2 / 19
p0 25.64 ± 0.04029
27.5
27
26.5
26
25.5
25
24.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

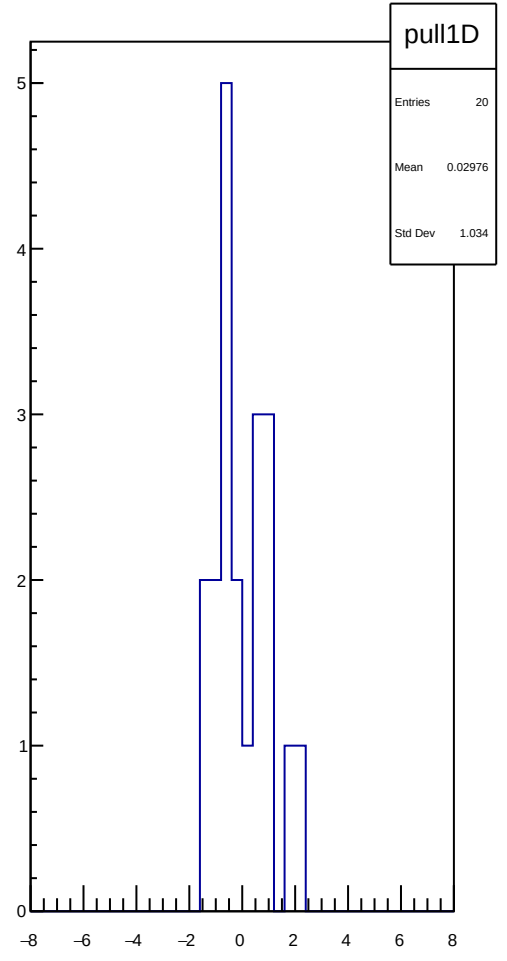

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.4 / 19
p0 0.00949 ± 0.05698
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02976
Std Dev 1.034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

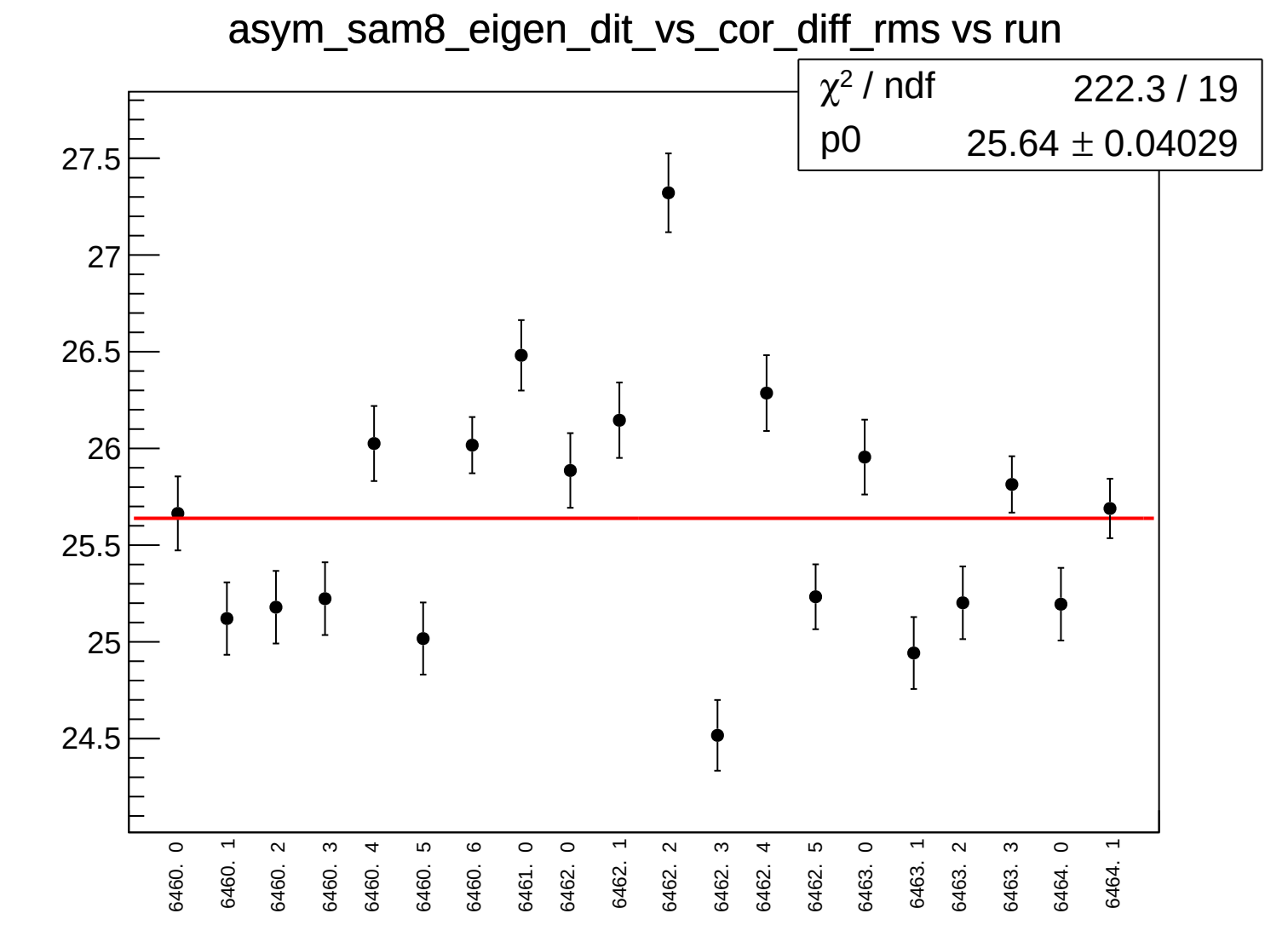

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 222.2 / 19
p0 25.64 ± 0.04029
27.5
27
26.5
26
25.5
25
24.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

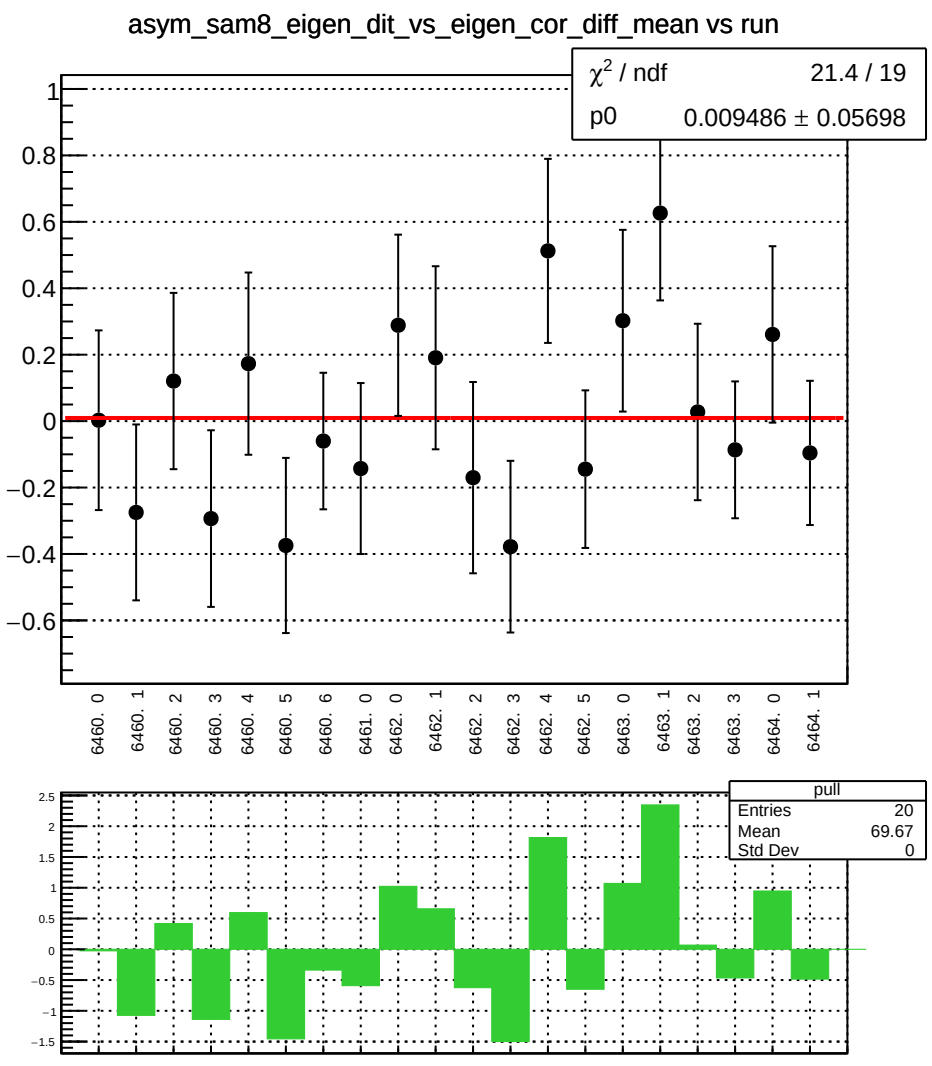

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 8.086 / 19
p0 −3.998e−06 ± 4.785e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.01
Std Dev 3.545
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.0225
Std Dev 0.6355
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

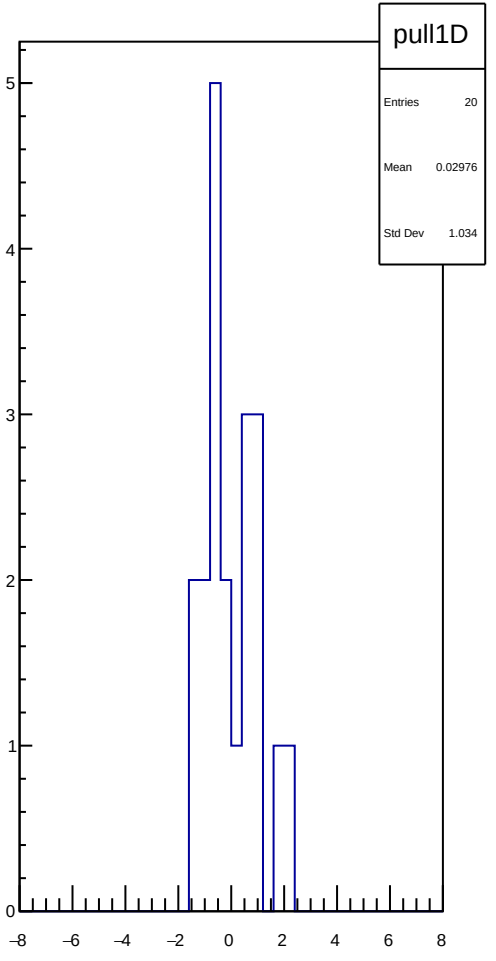

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 536.8 / 19
p0 0.002152 ± 3.384e−06
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

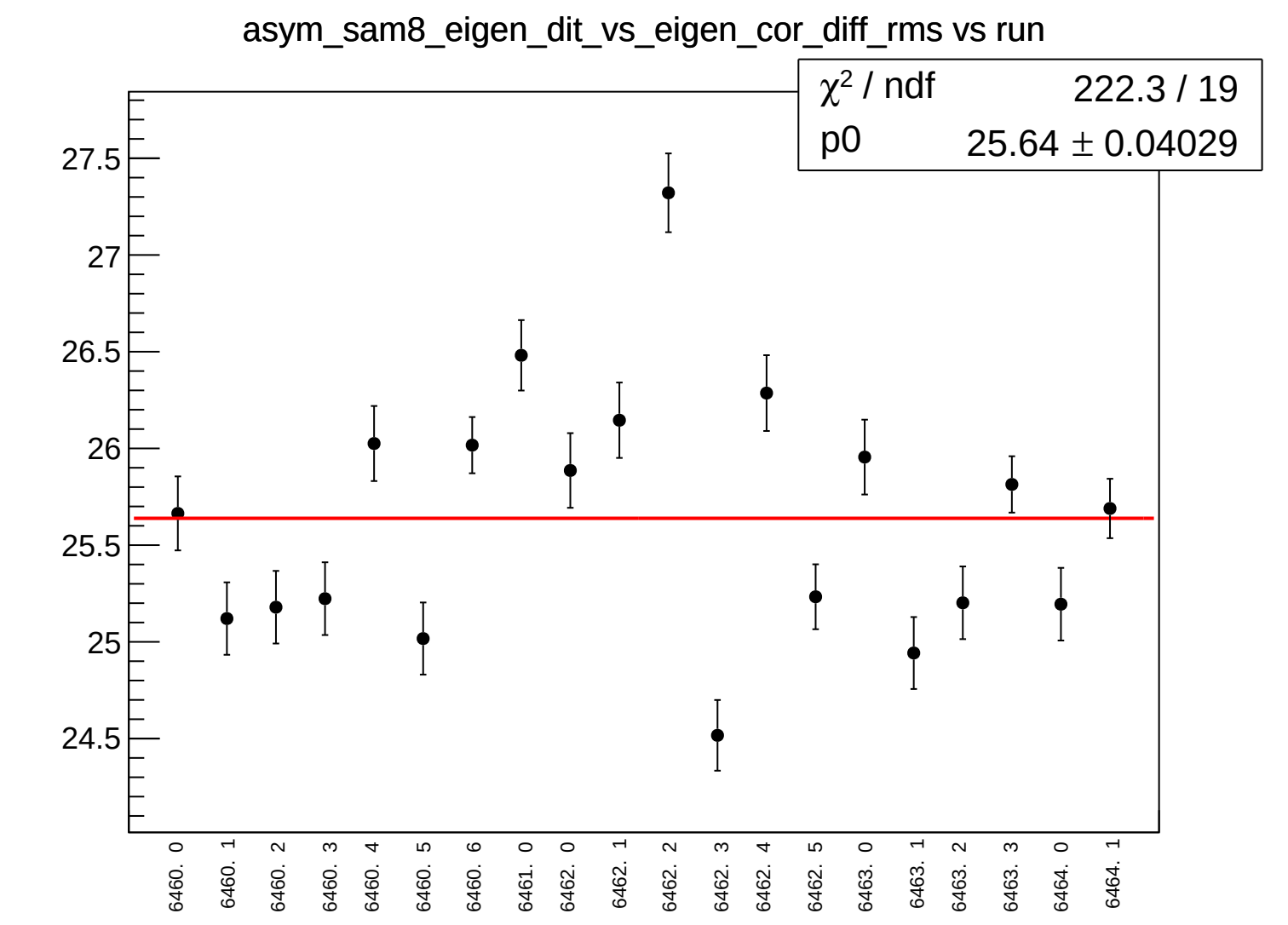

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.4 / 19
p0 0.009486 ± 0.05698
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

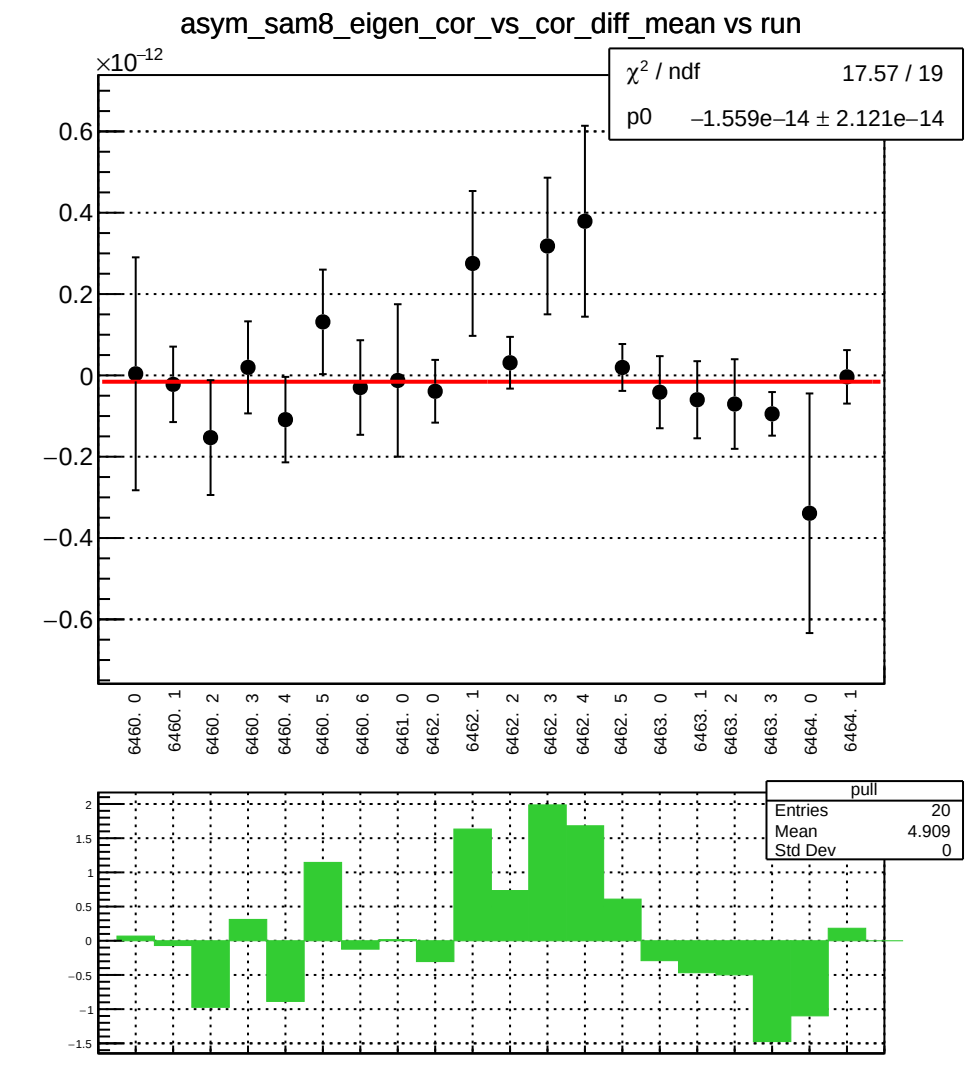

pull1D
Entries 20
Mean 0.02976
Std Dev 1.034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

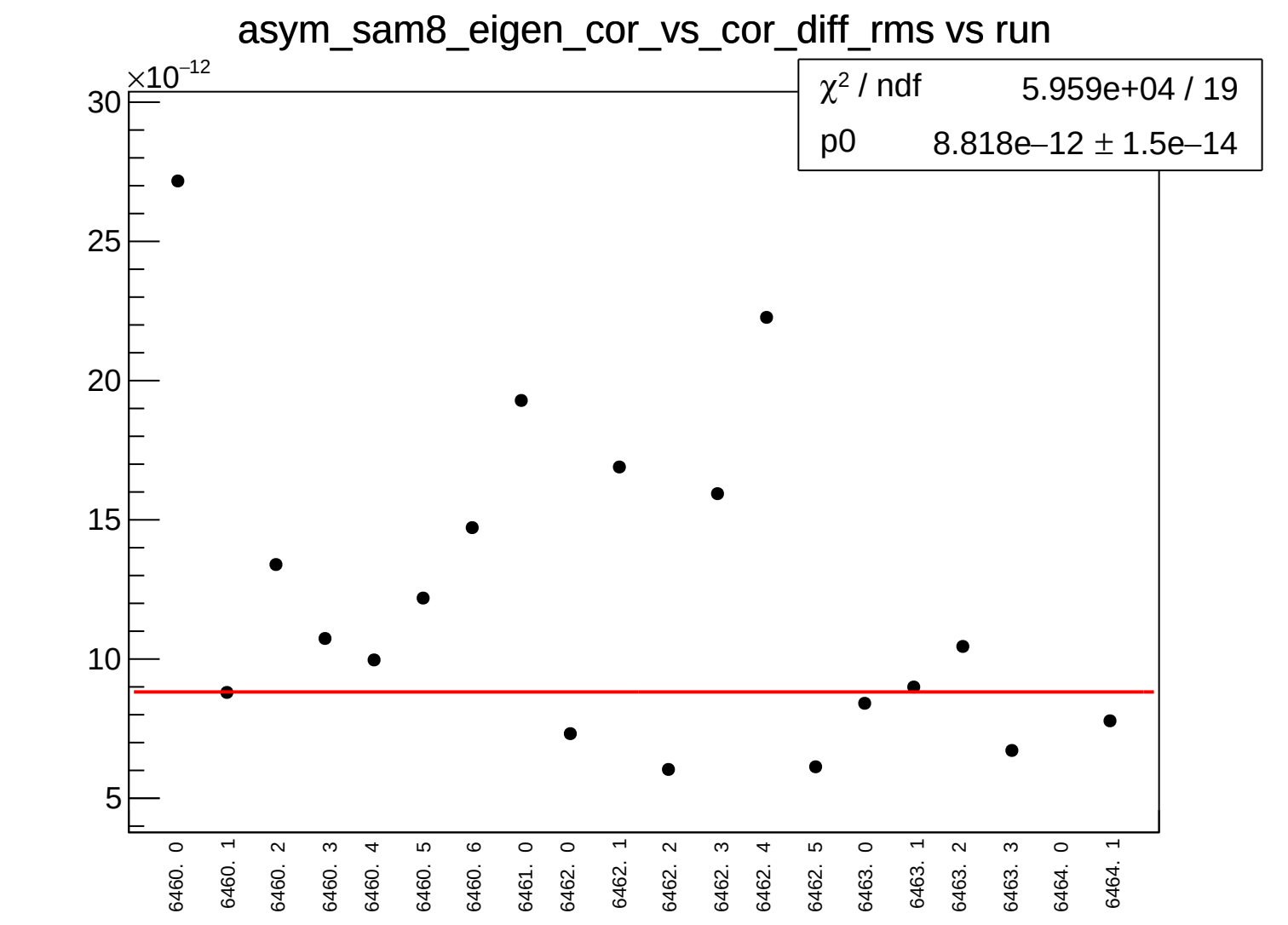

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 222.3 / 19
p0 25.64 ± 0.04029
27.5
27
26.5
26
25.5
25
24.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

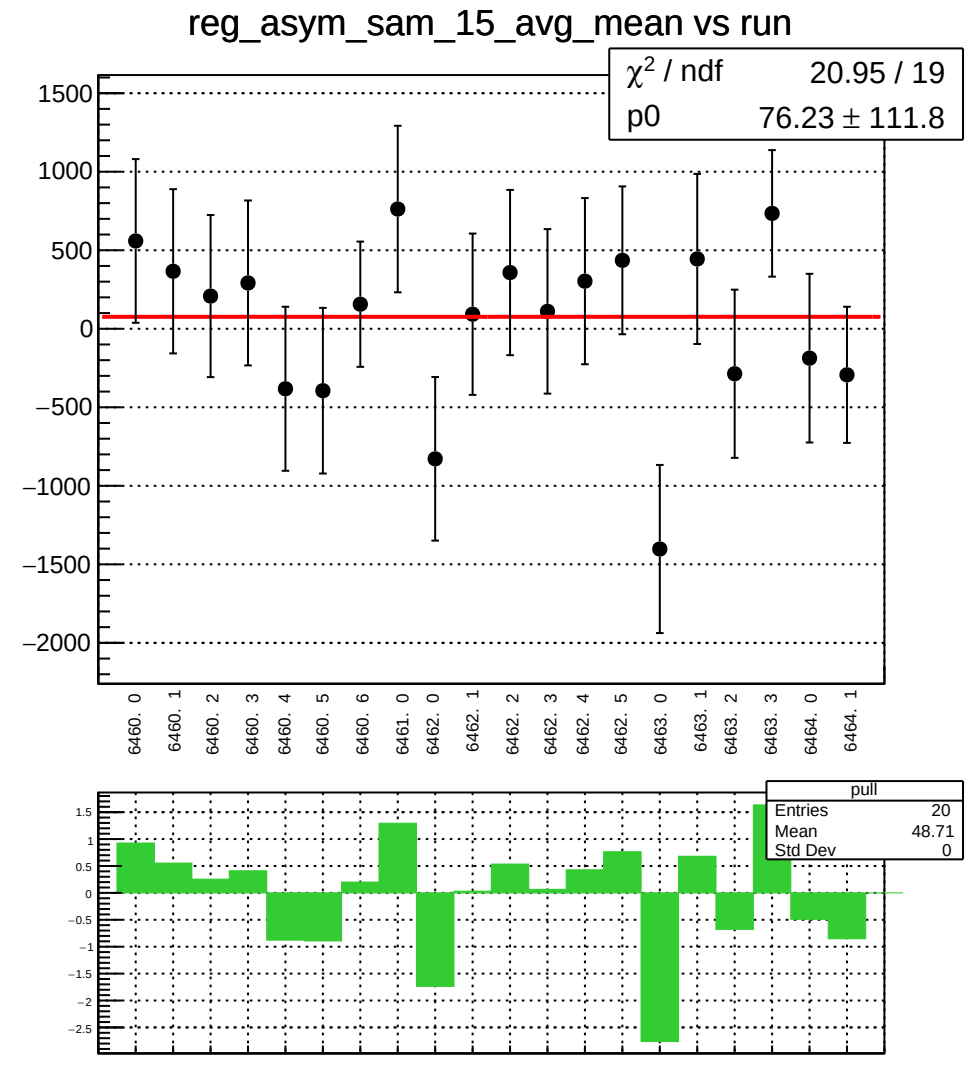

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.4 / 19
p0 0.009486 ± 0.05698
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

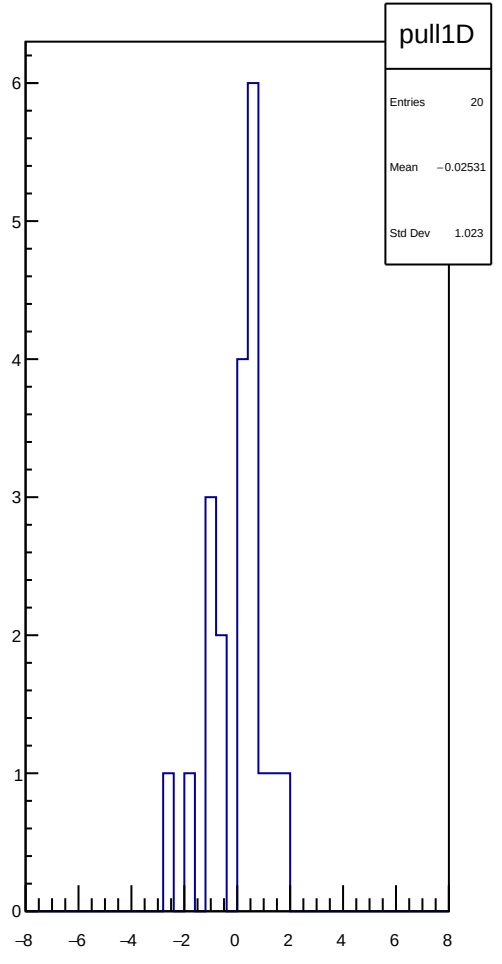

pull1D
Entries 20
Mean 0.02976
Std Dev 1.034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

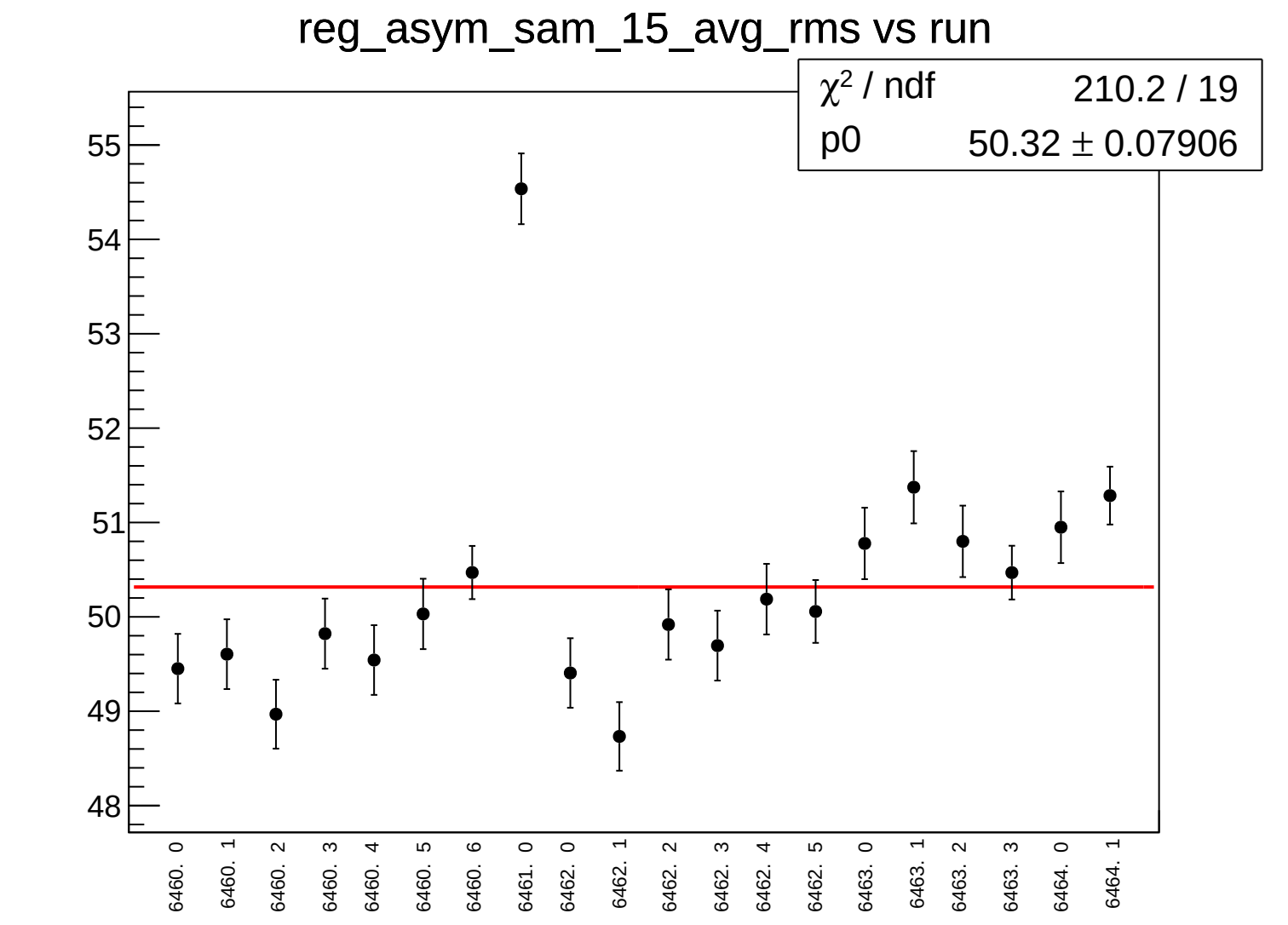

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 222.3 / 19
p0 25.64 ± 0.04029
27.5
27
26.5
26
25.5
25
24.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

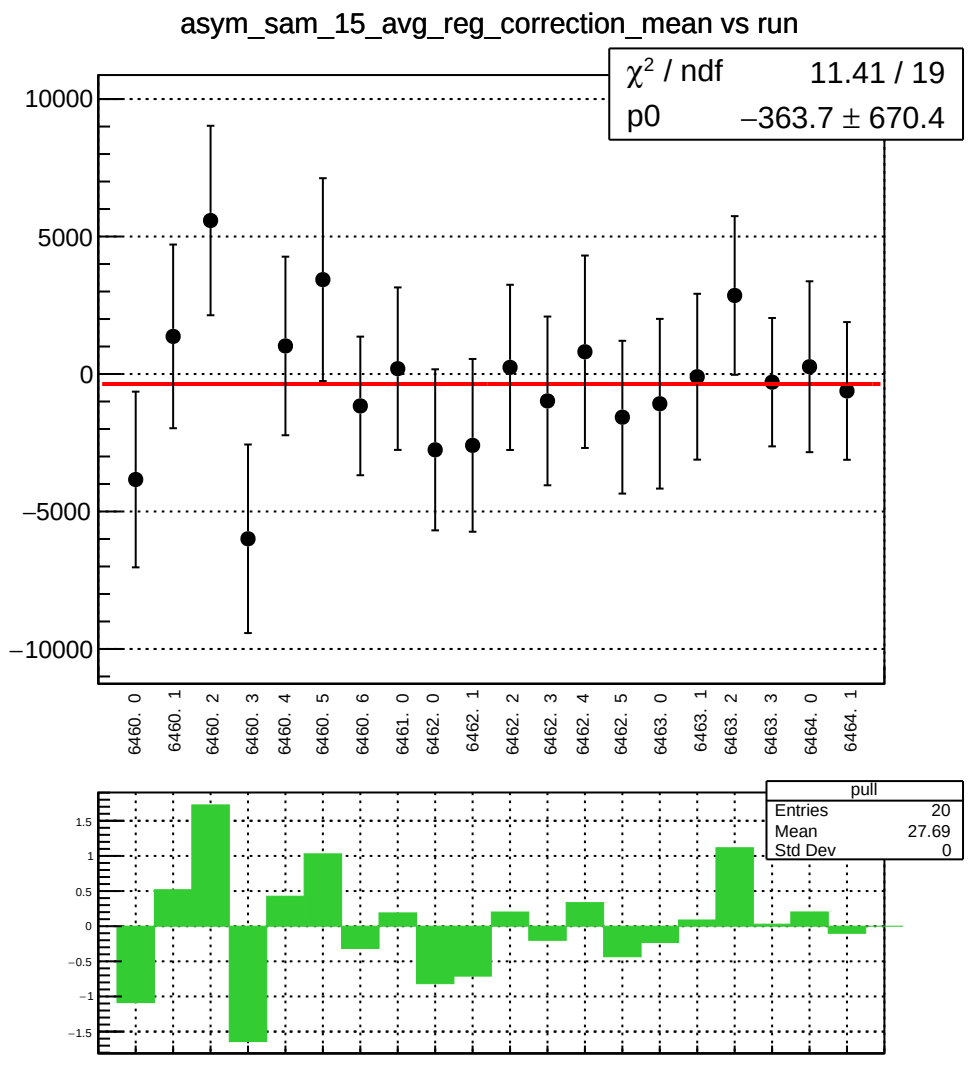

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.57 / 19
p0 −1.559e−14 ± 2.121e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.909
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.1092
Std Dev 0.931
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

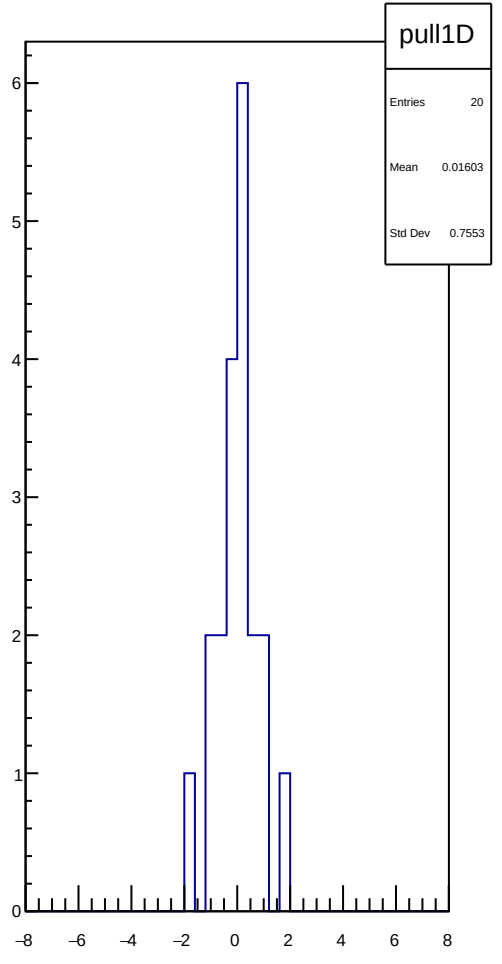

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.959e+04 / 19
p0 8.818e−12 ± 1.5e−14
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

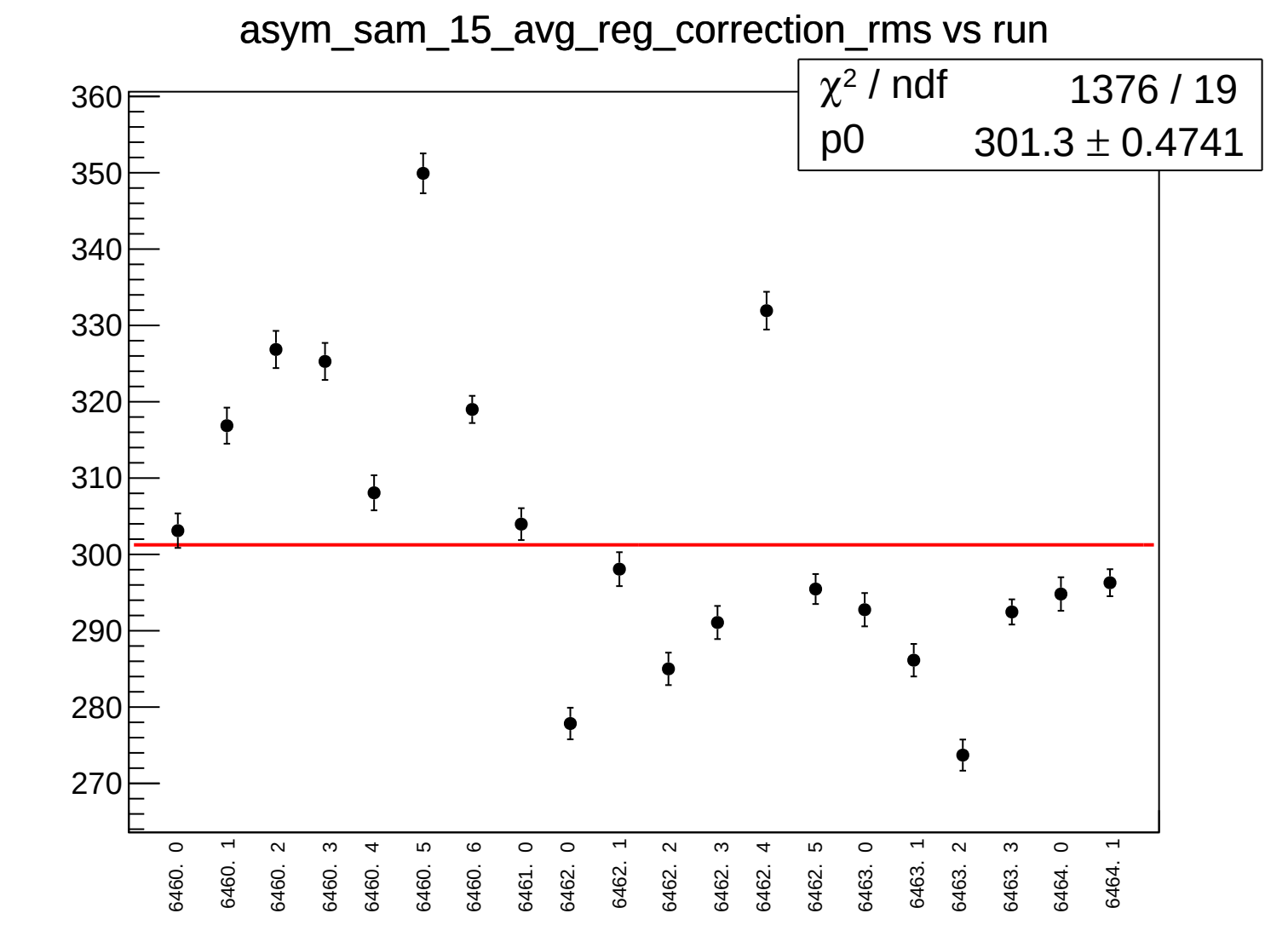

reg_asym_sam_15_avg_mean vs run
χ² / ndf 20.95 / 19
p0 76.23 ± 111.8
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

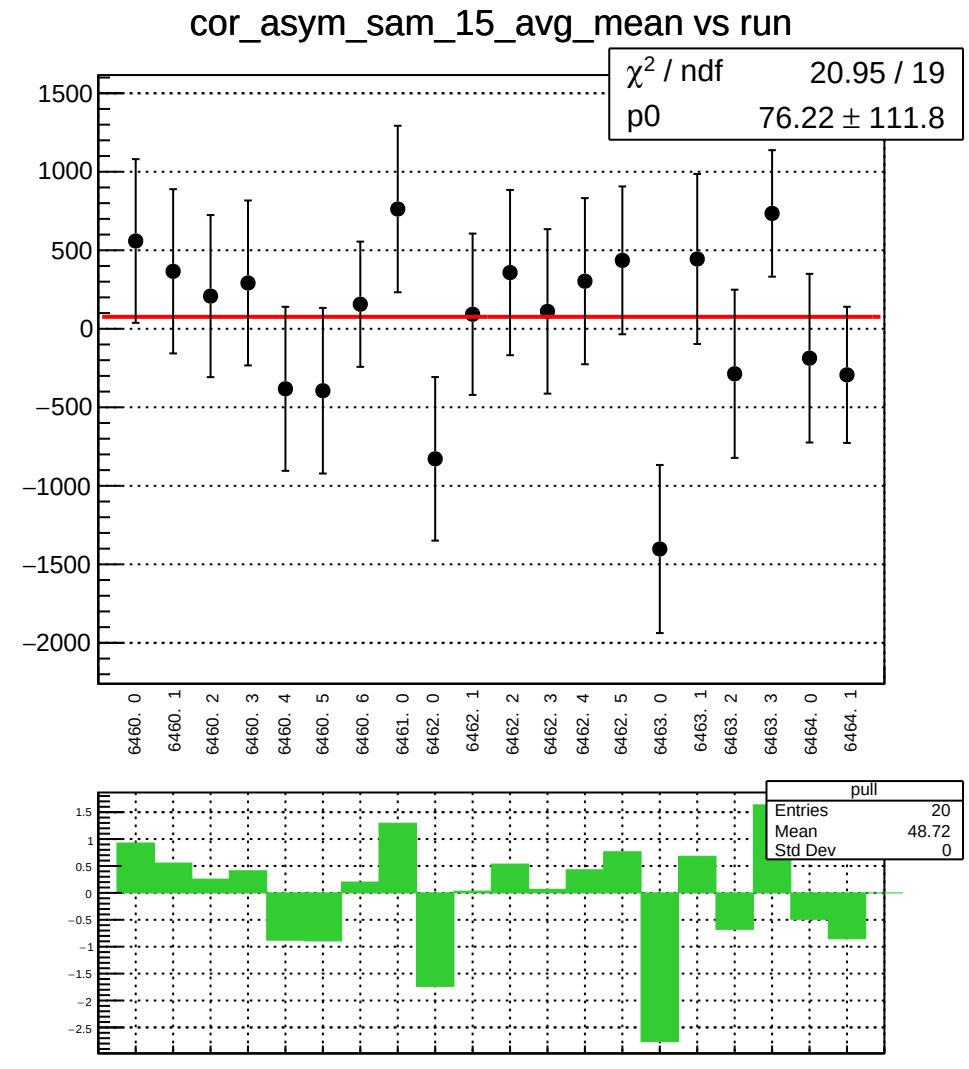

pull1D
Entries 20
Mean −0.02531
Std Dev 1.023
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

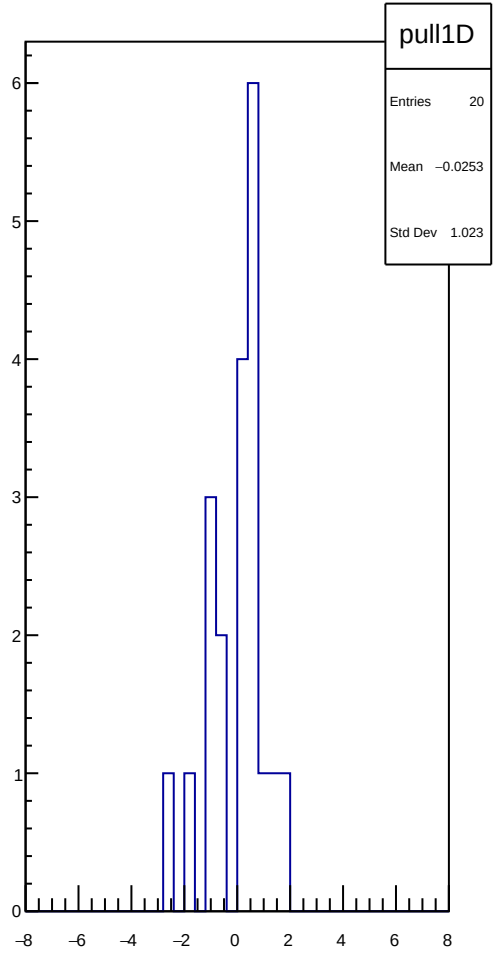

reg_asym_sam_15_avg_rms vs run
χ² / ndf 210.2 / 19
p0 50.32 ± 0.07906
55
54
53
52
51
50
49
48
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

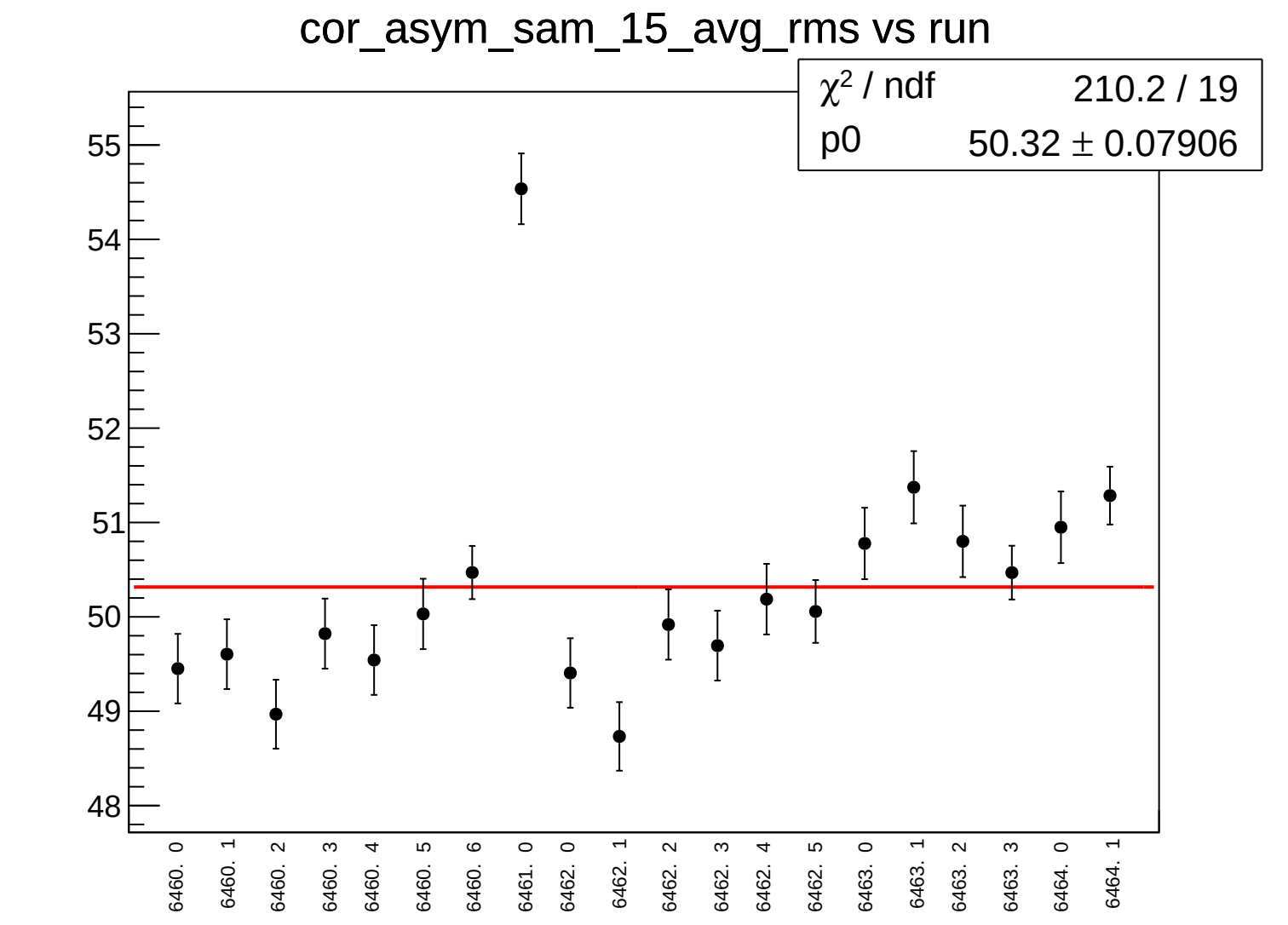

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 11.41 / 19
p0 −363.7 ± 670.4
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean 0.01603
Std Dev 0.7553
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 1376 / 19
p0 301.3 ± 0.4741
360
350
340
330
320
310
300
290
280
270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


cor_asym_sam_15_avg_mean vs run
χ² / ndf 20.95 / 19
p0 76.22 ± 111.8
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 20
Mean −0.0253
Std Dev 1.023
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 210.2 / 19
p0 50.32 ± 0.07906
55
54
53
52
51
50
49
48
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 4
6462. 5
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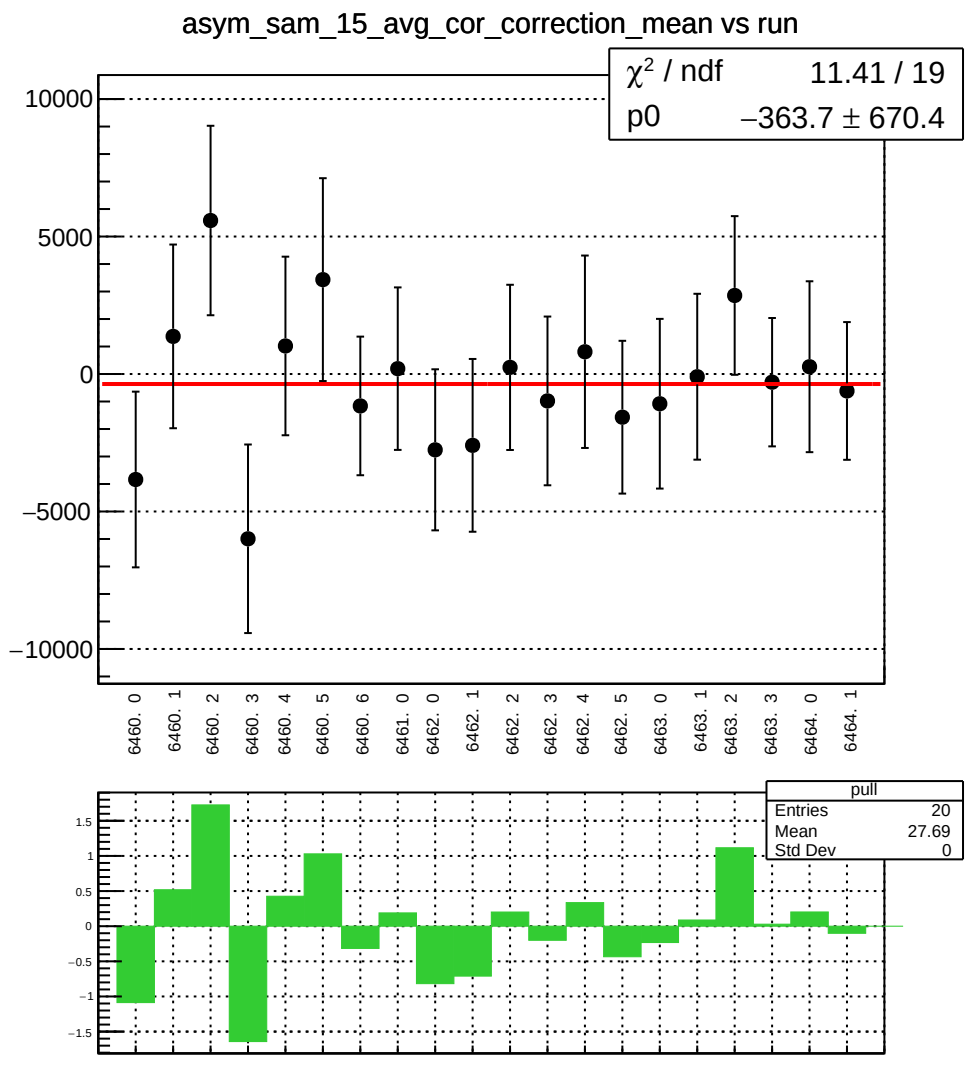
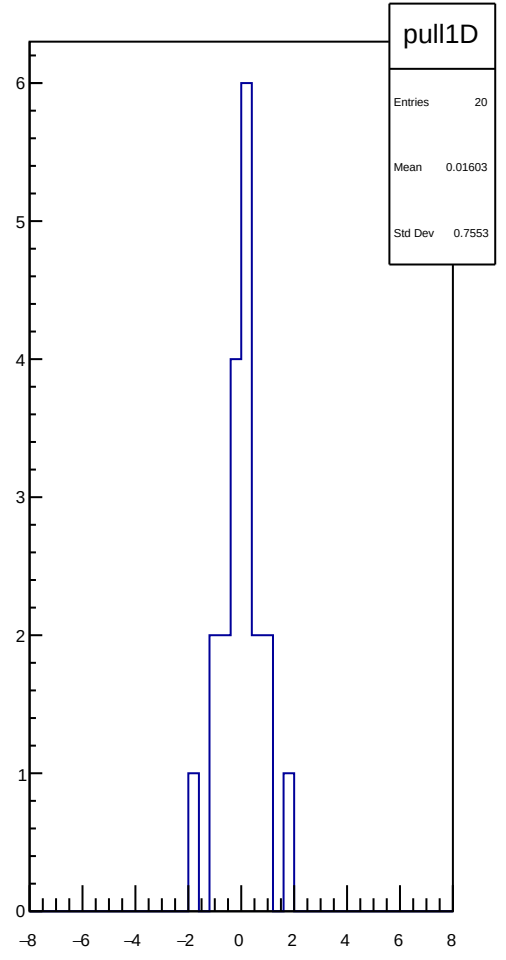
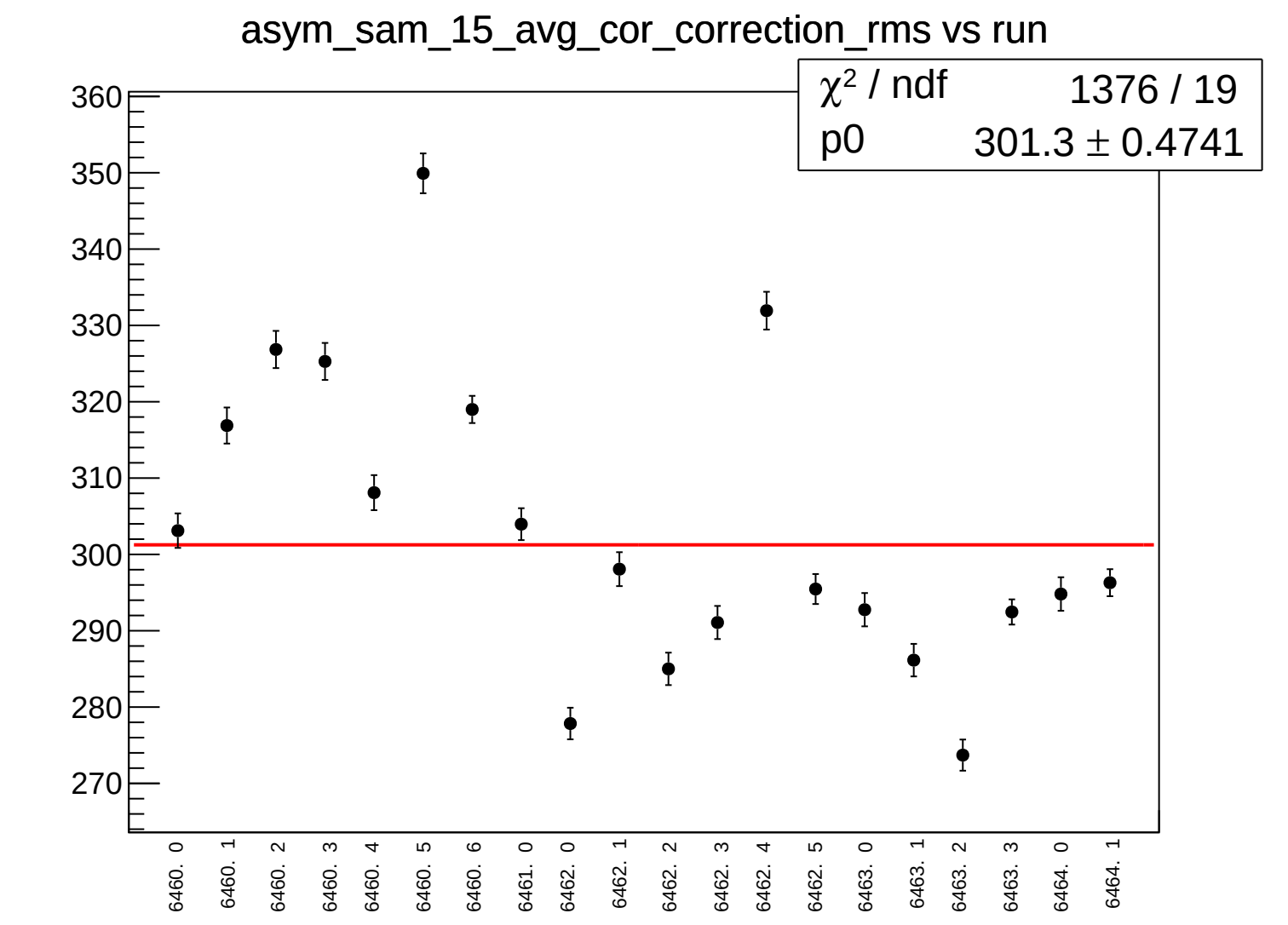
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 11.41 / 19
p0 −363.7 ± 670.4
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean 0.01603
Std Dev 0.7553
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 1376 / 19
p0 301.3 ± 0.4741
360
350
340
330
320
310
300
290
280
270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
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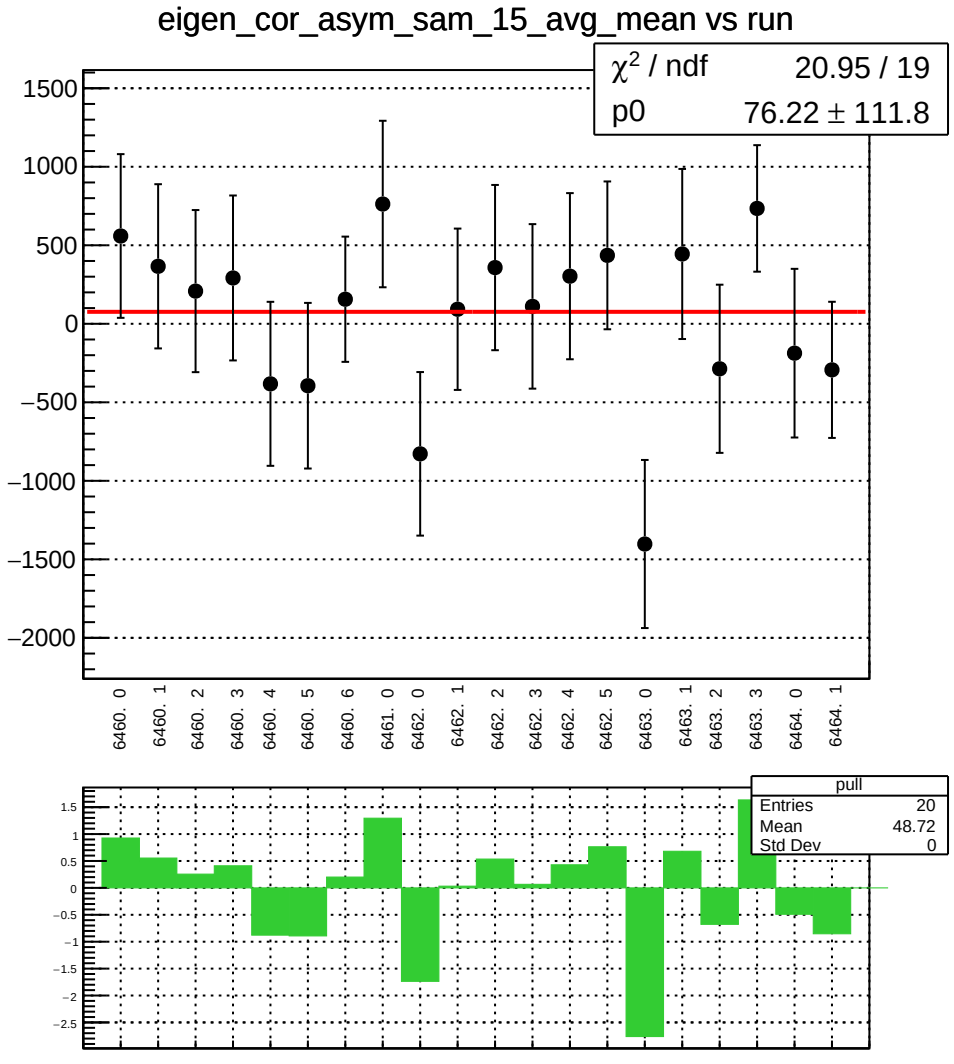
6464. 0
6464. 1


eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 20.95 / 19
p0 76.22 ± 111.8
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean −0.0253
Std Dev 1.023
6
5
4
3
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1
0
−8
−6
−4
−2
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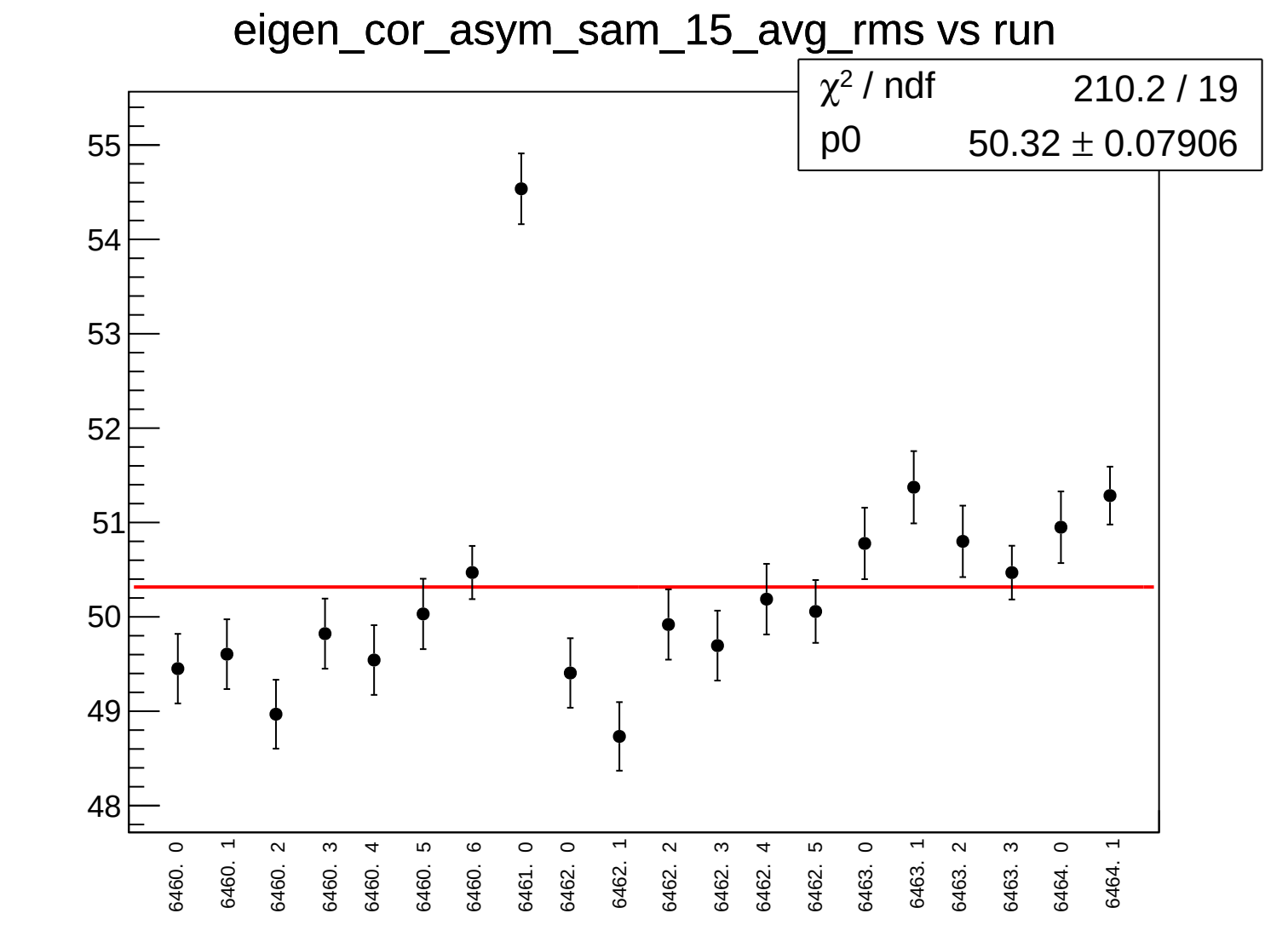
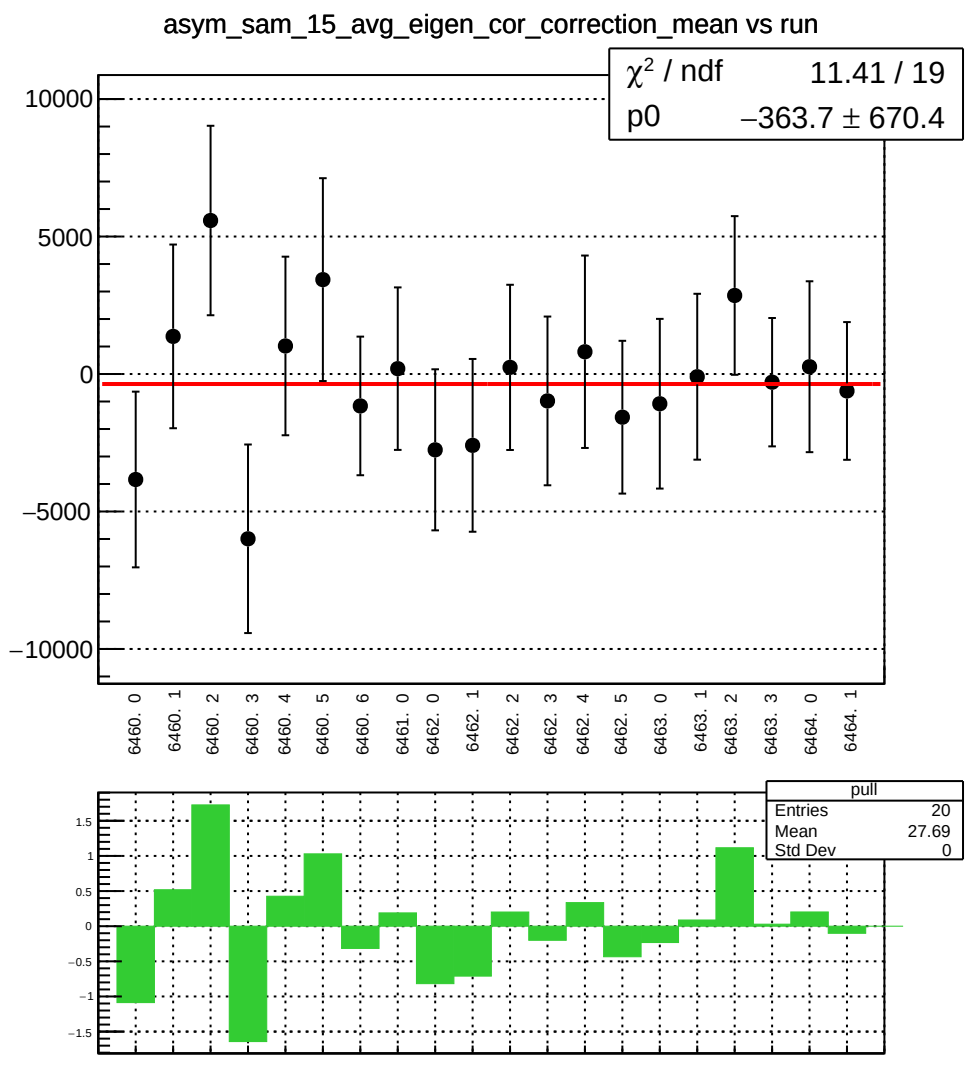
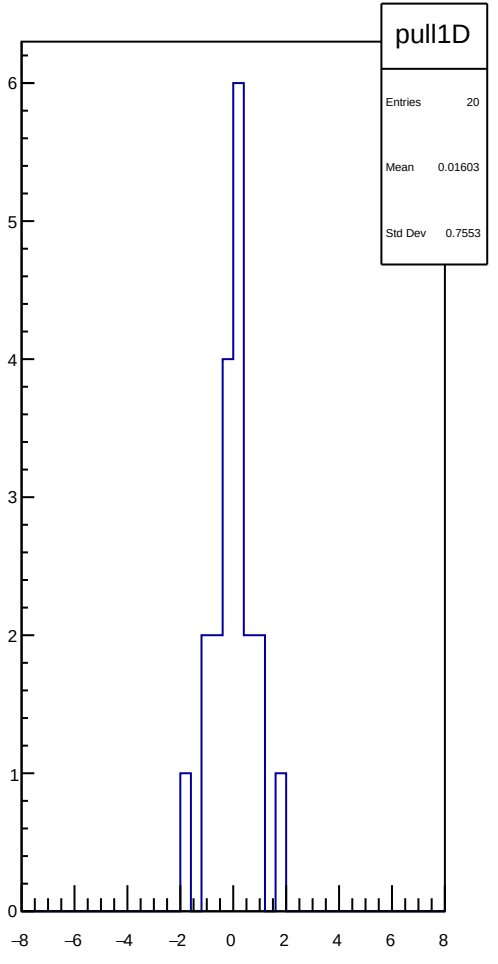
2
4
6
8


eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 210.2 / 19
p0 50.32 ± 0.07906
55
54
53
52
51
50
49
48
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 11.41 / 19
p0 −363.7 ± 670.4
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean 0.01603
Std Dev 0.7553
6
5
4
3
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1
0
−8
−6
−4
−2
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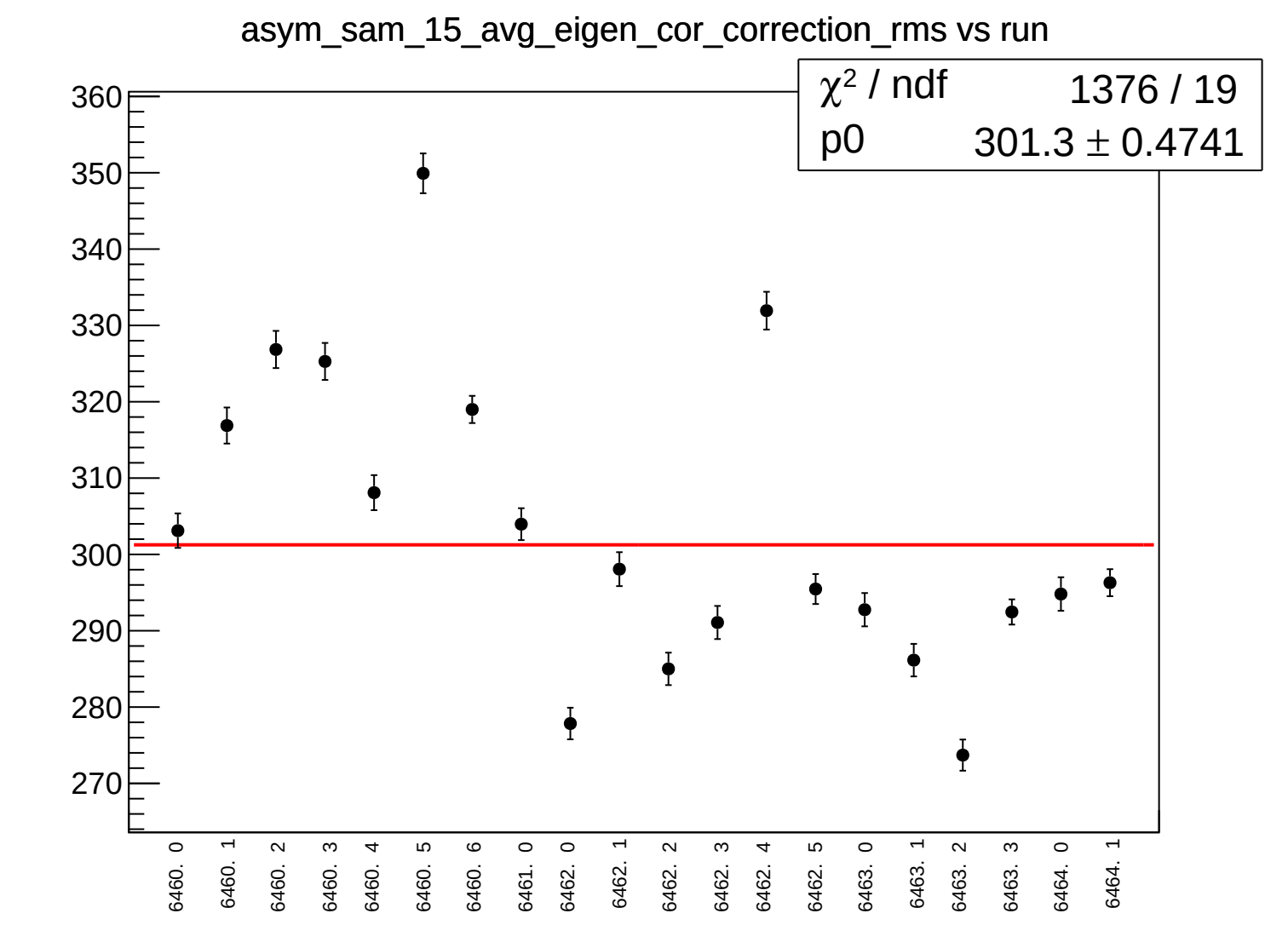
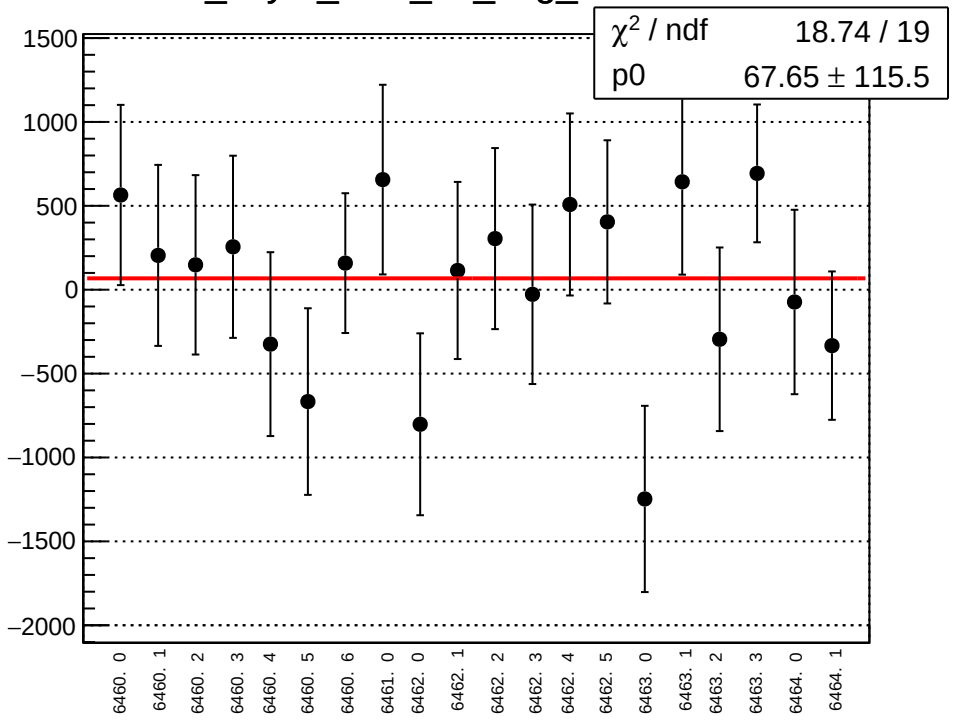
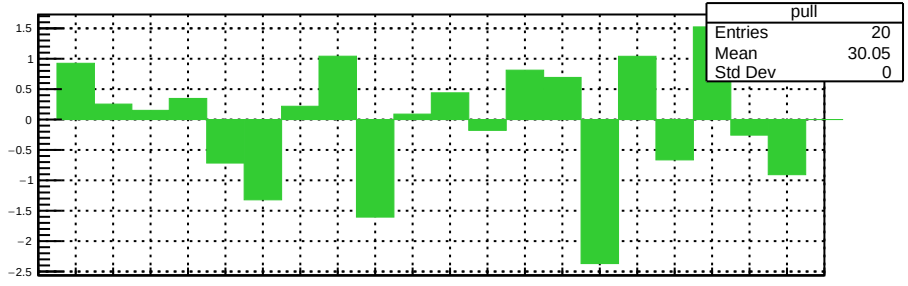
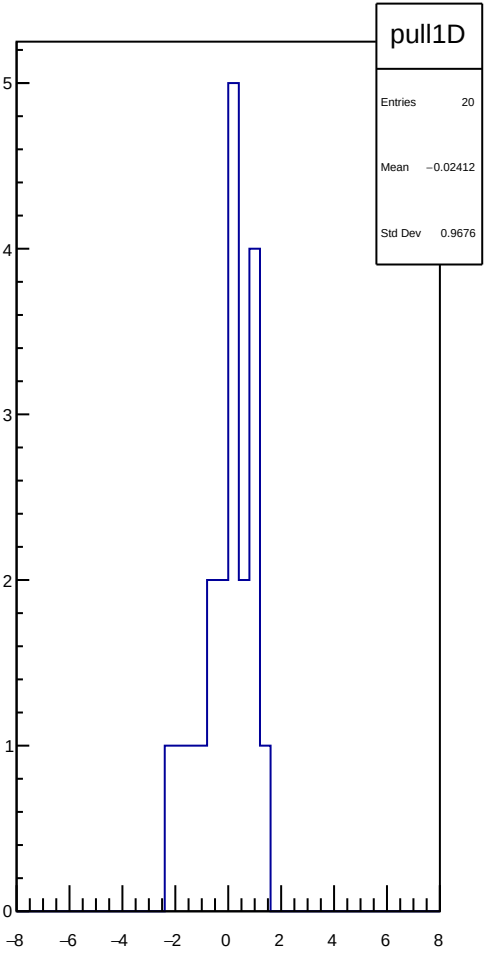
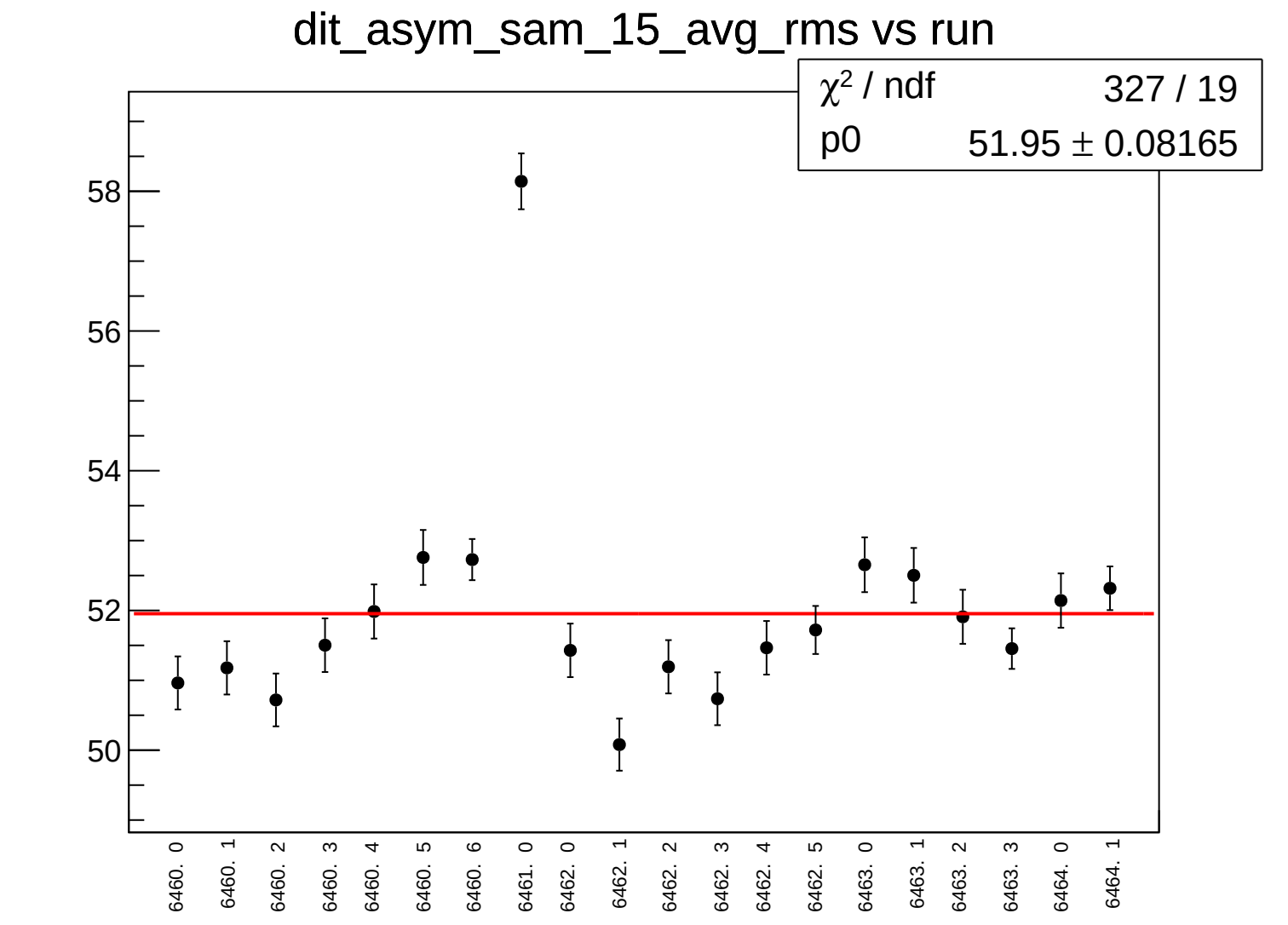
2
4
6
8


asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1376 / 19
p0 301.3 ± 0.4741
360
350
340
330
320
310
300
290
280
270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


dit_asym_sam_15_avg_mean vs run
χ² / ndf 18.74 / 19
p0 67.65 ± 115.5
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


pull
Entries 20
Mean 30.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 20
Mean −0.02412
Std Dev 0.9676
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_avg_rms vs run
χ² / ndf 327 / 19
p0 51.95 ± 0.08165
58
56
54
52
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 4
6462. 5
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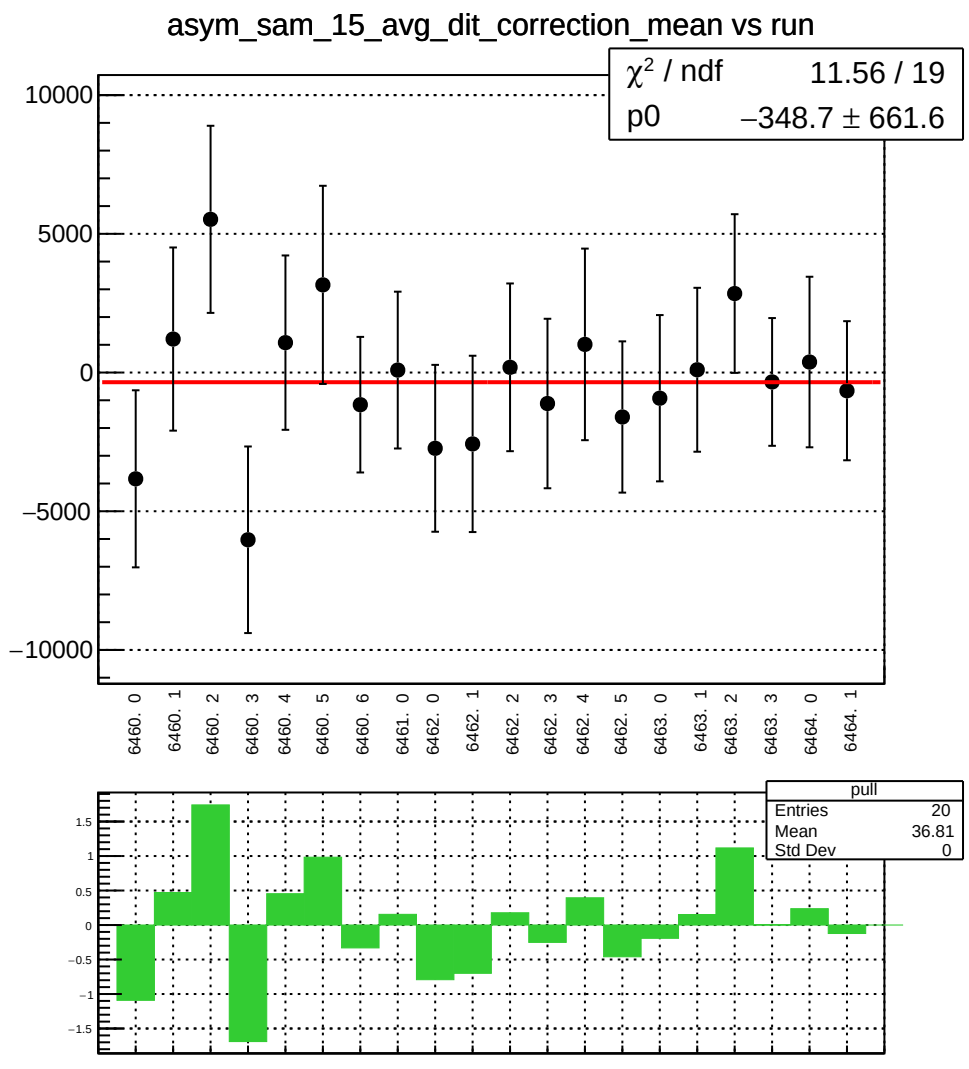
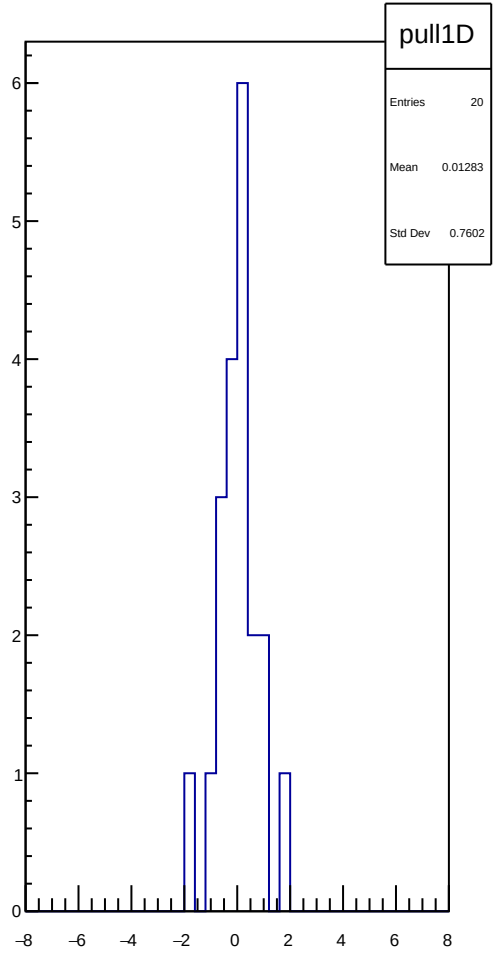
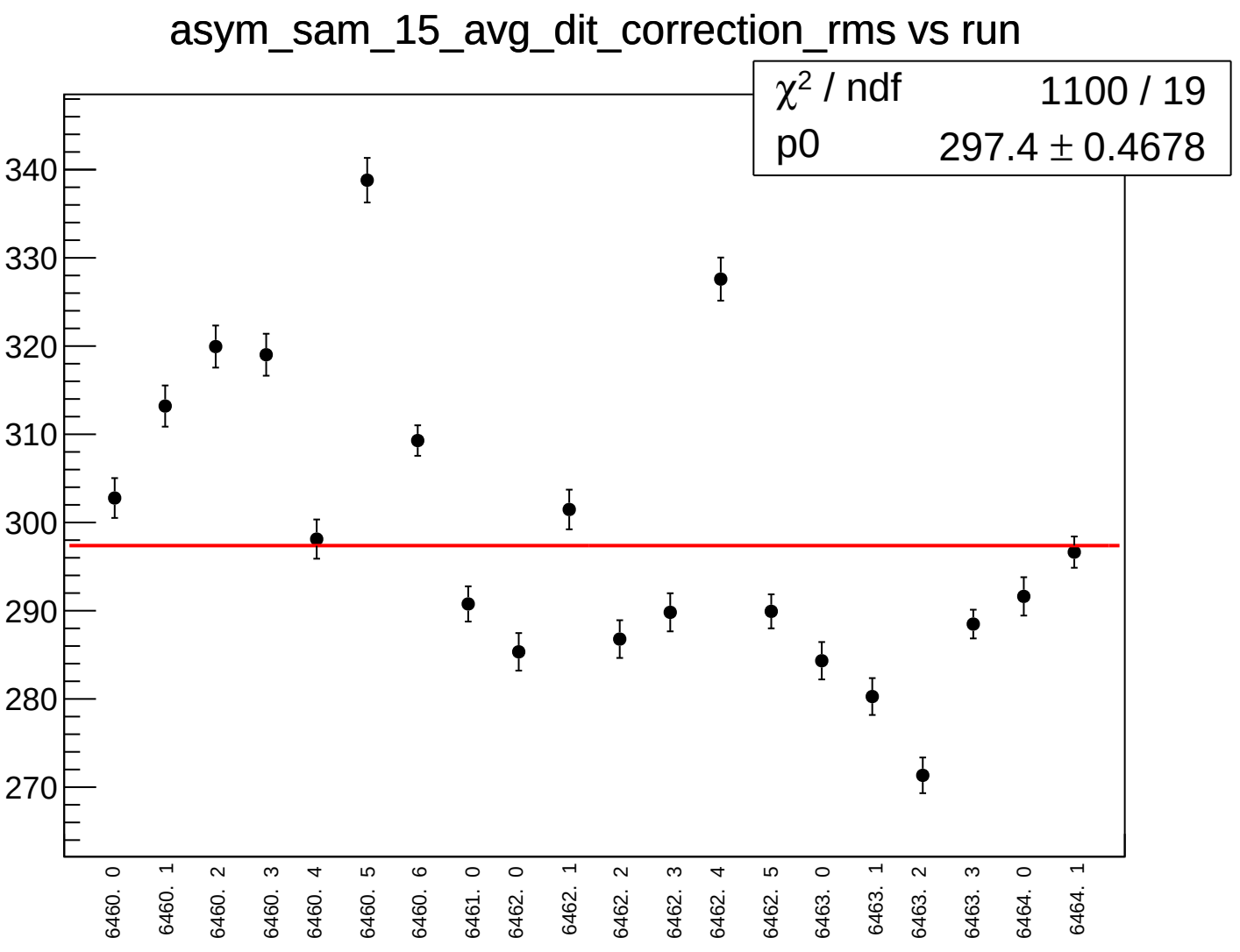
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 11.56 / 19
p0 −348.7 ± 661.6
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean 0.01283
Std Dev 0.7602
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 1100 / 19
p0 297.4 ± 0.4678
340
330
320
310
300
290
280
270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 4
6462. 5
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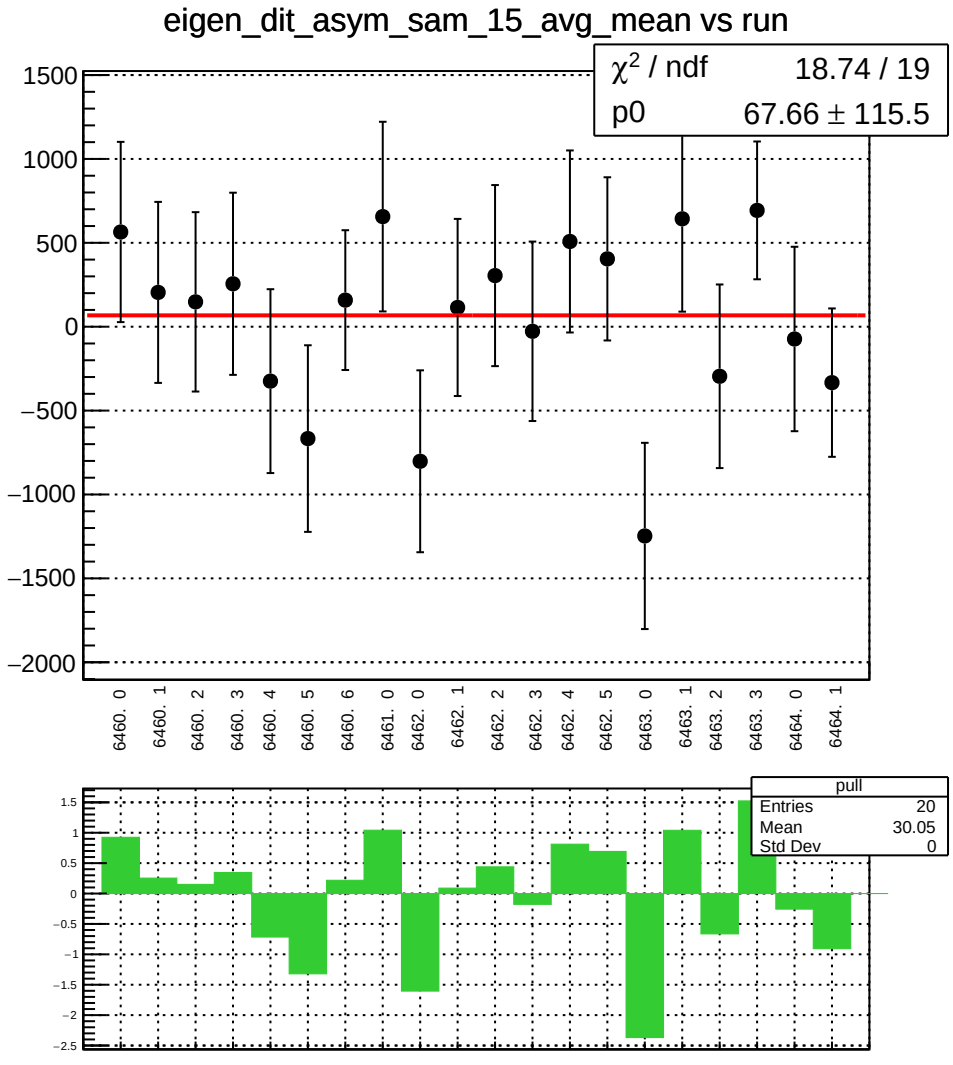
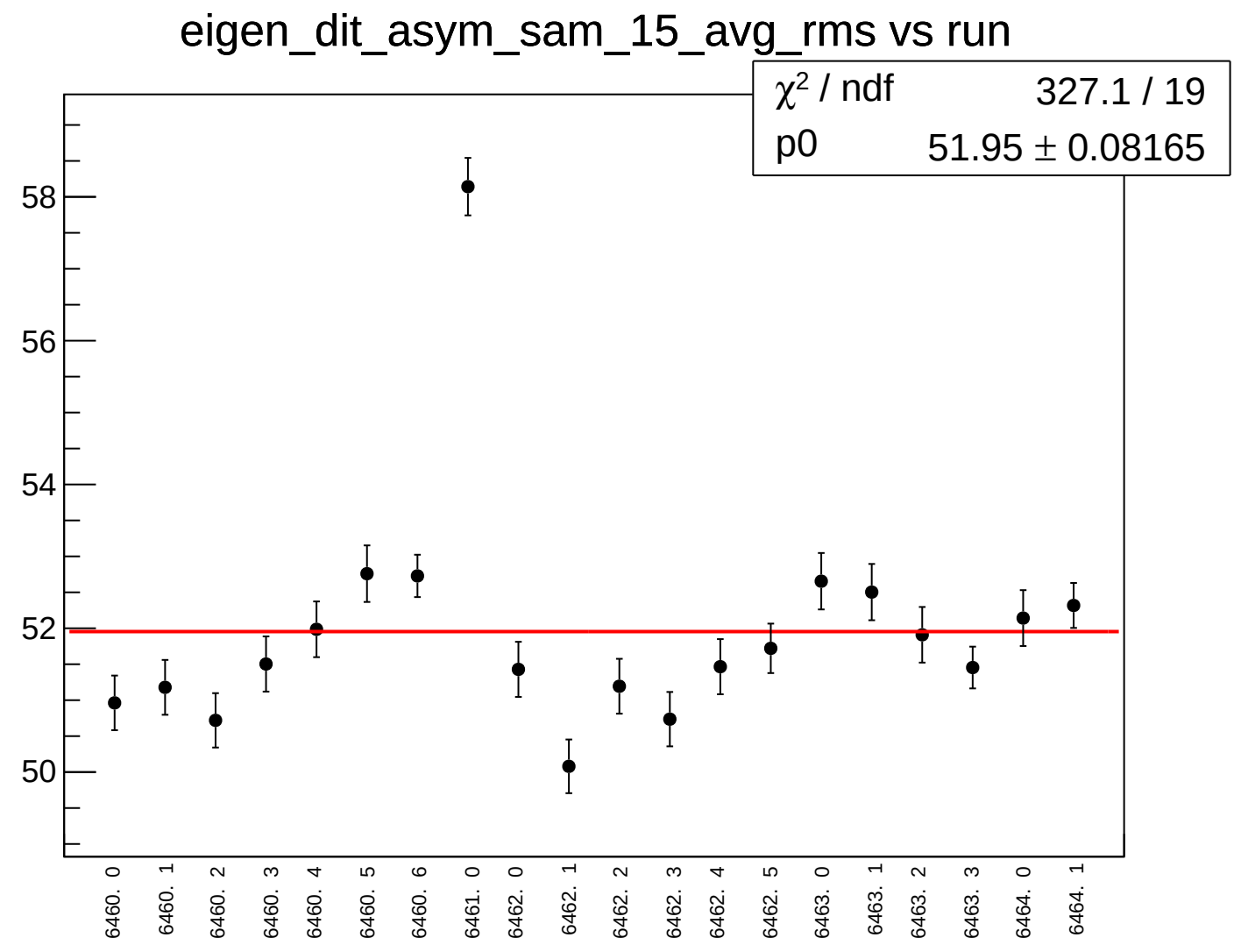
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 18.74 / 19
p0 67.66 ± 115.5
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean −0.02412
Std Dev 0.9676
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 327.1 / 19
p0 51.95 ± 0.08165
58
56
54
52
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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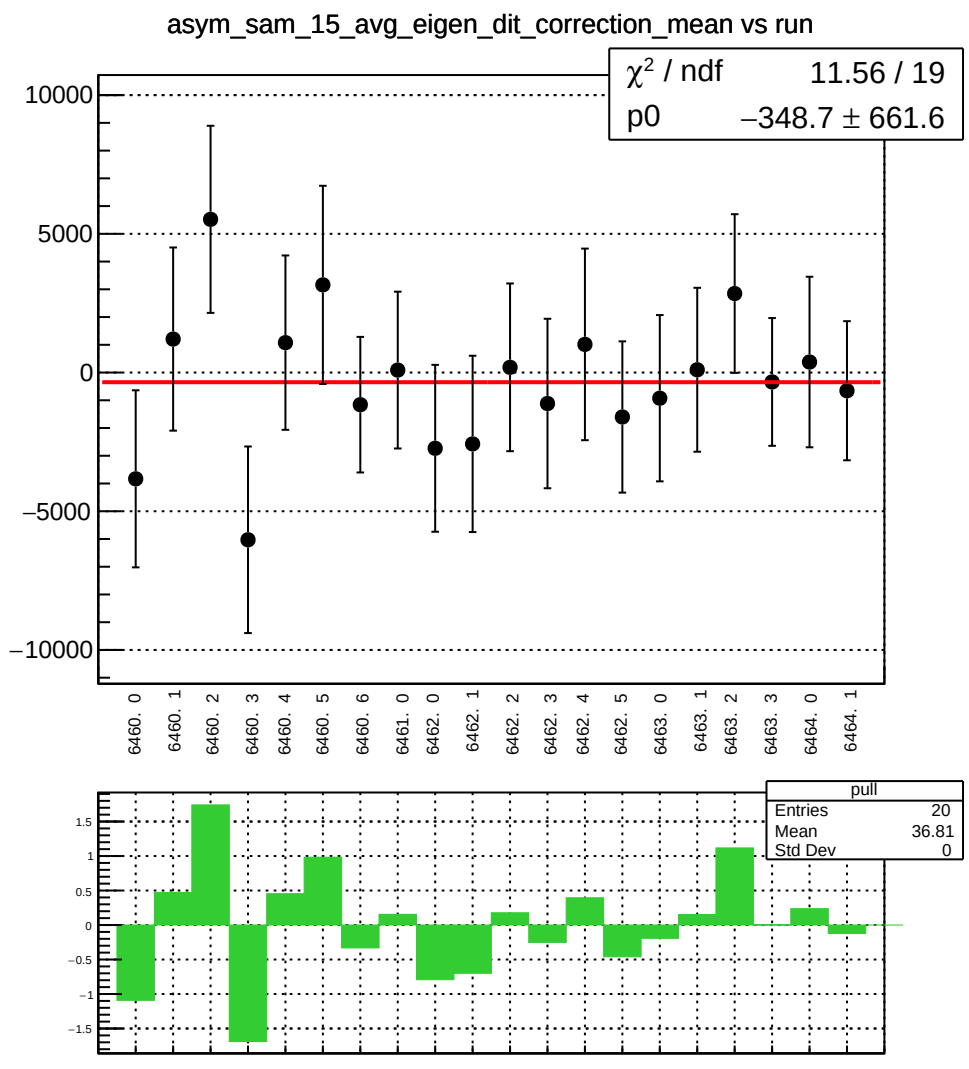
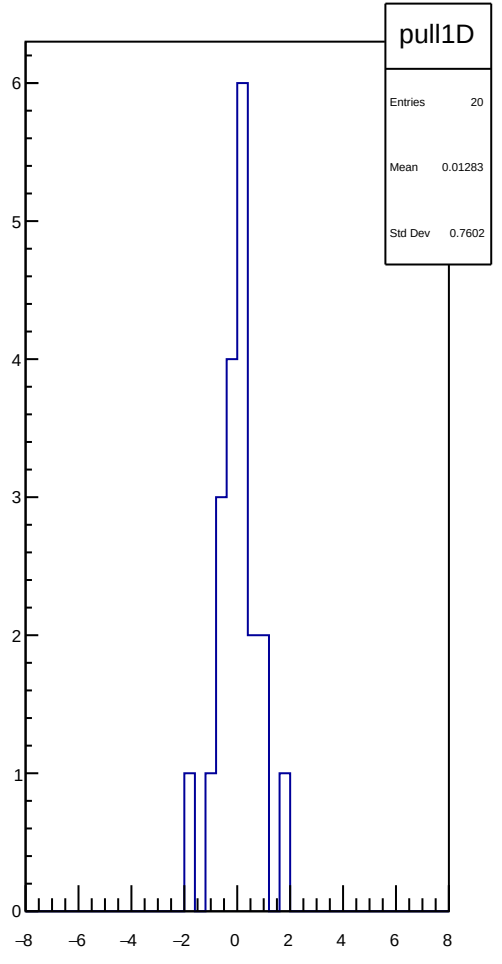
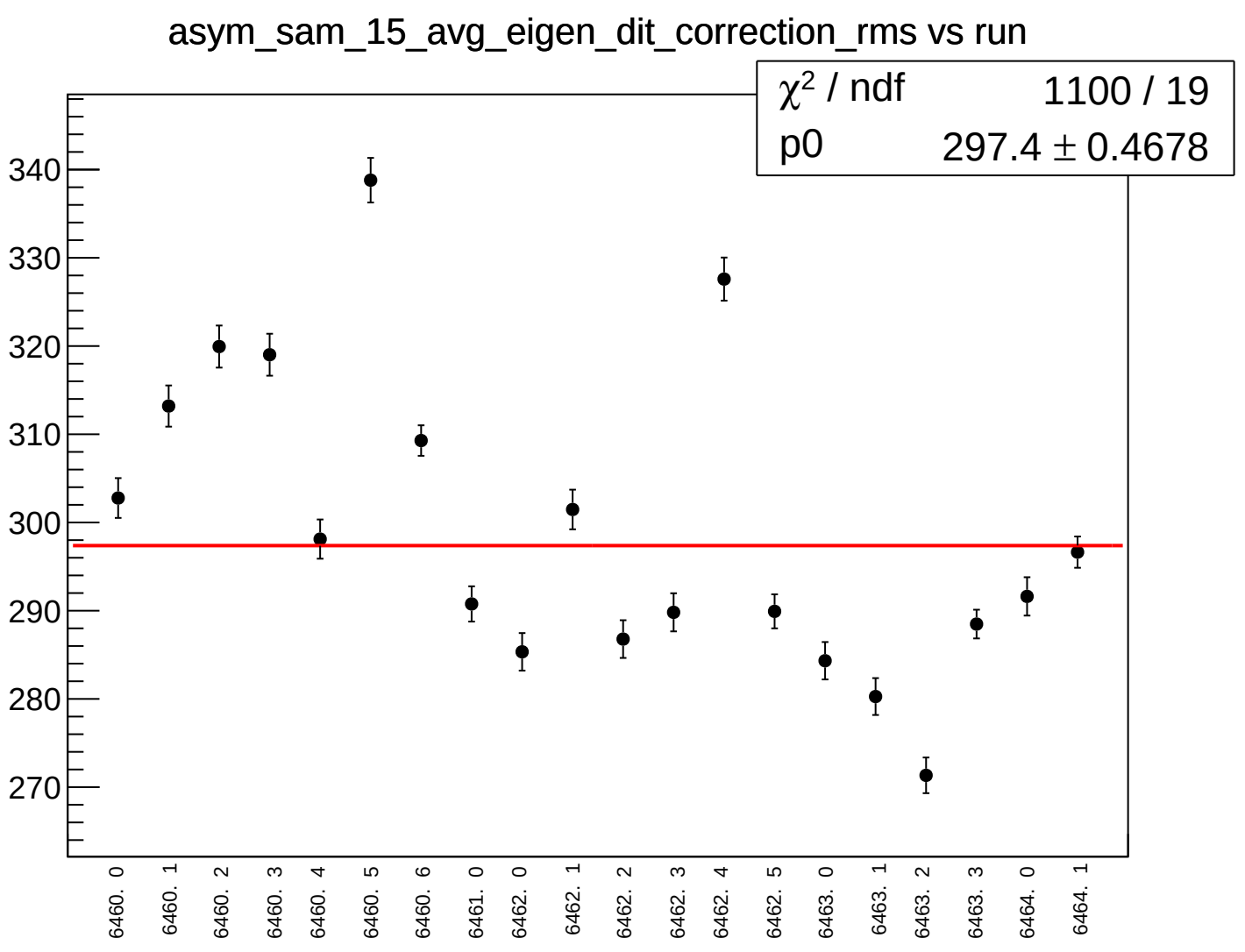
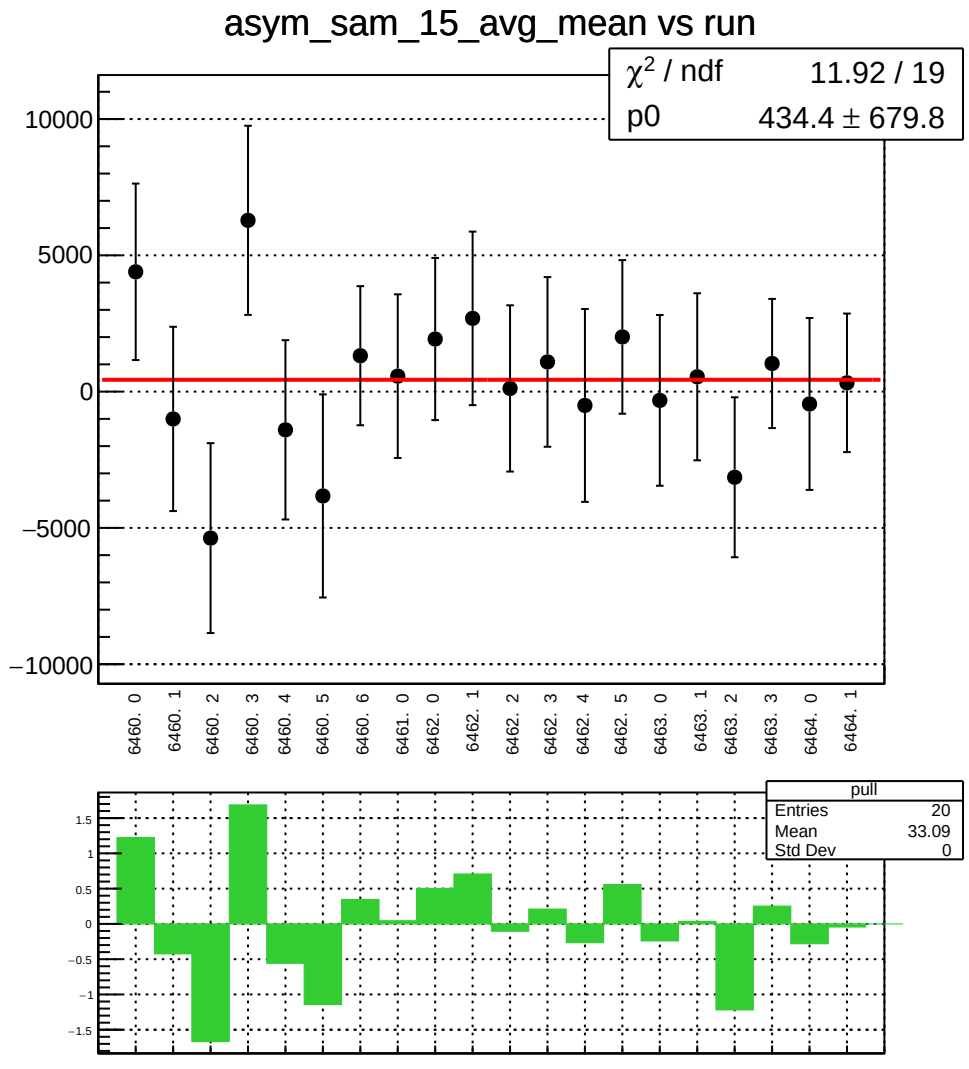
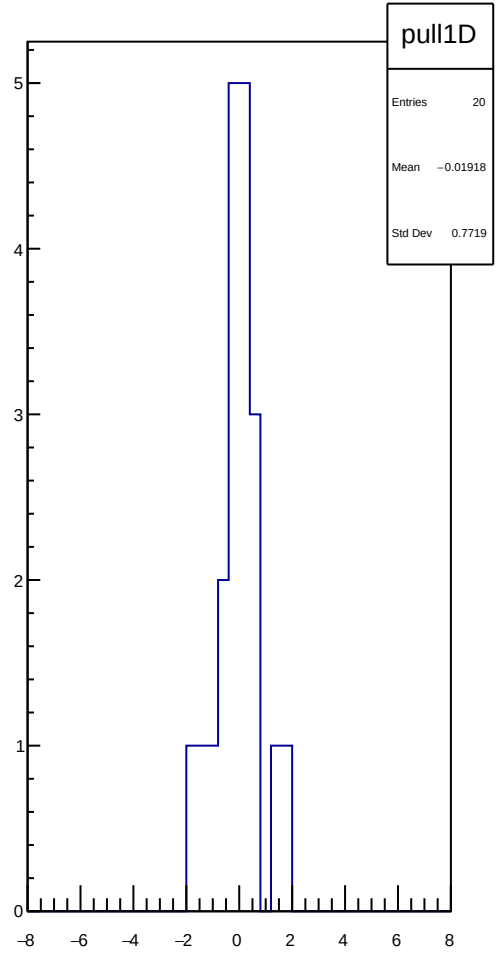
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

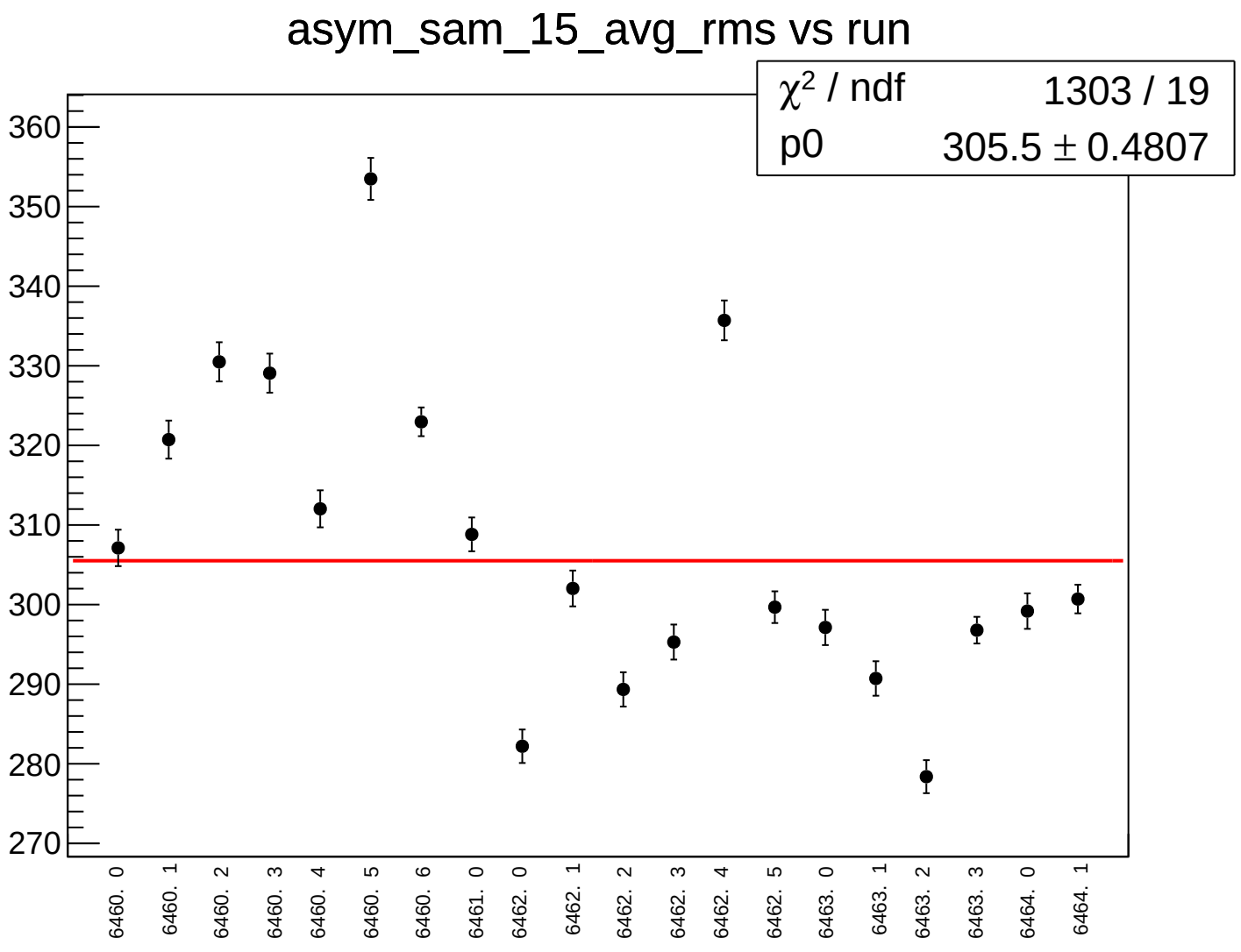

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 11.56 / 19
p0 −348.7 ± 661.6
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

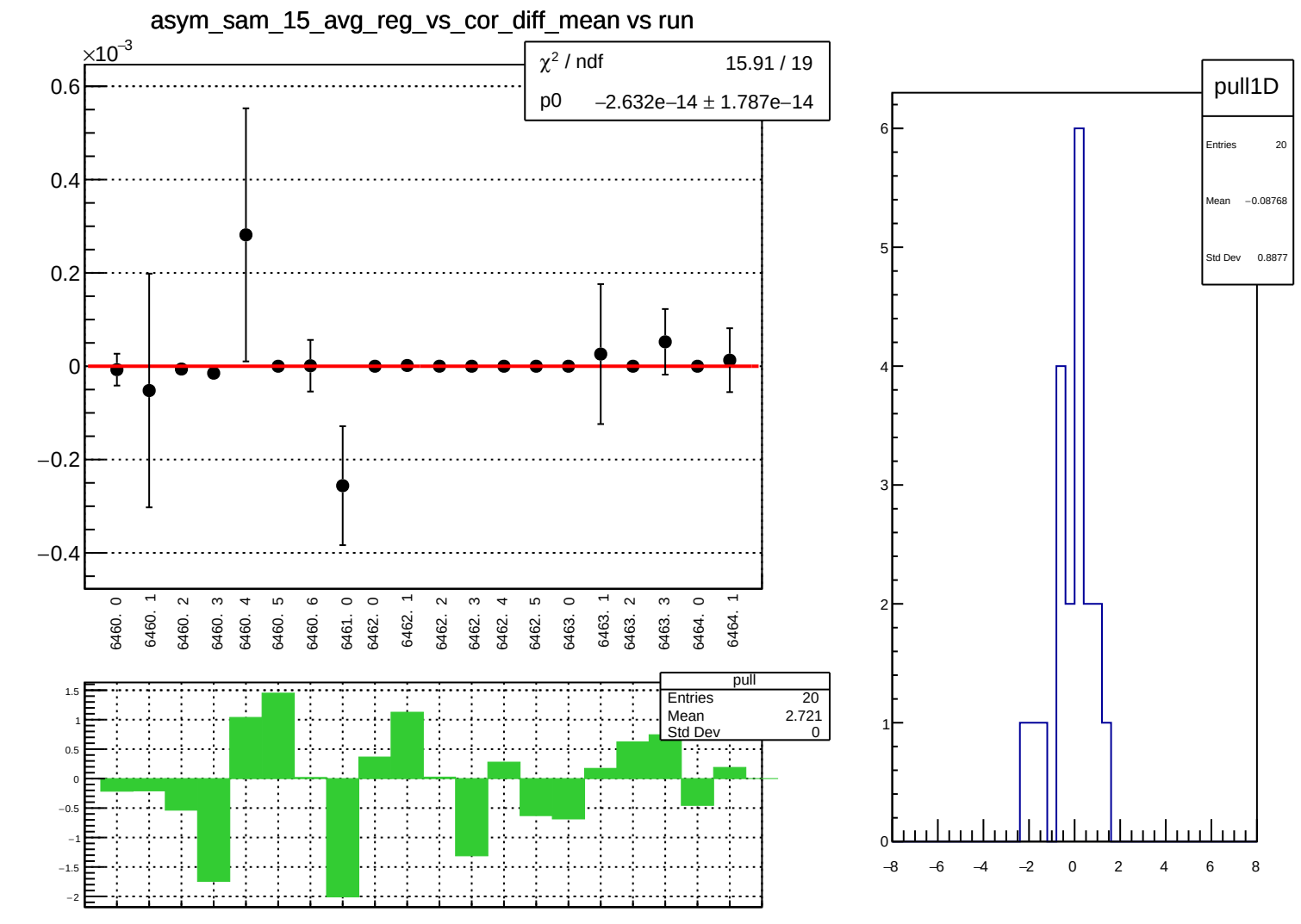

pull1D
Entries 20
Mean 0.01283
Std Dev 0.7602
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

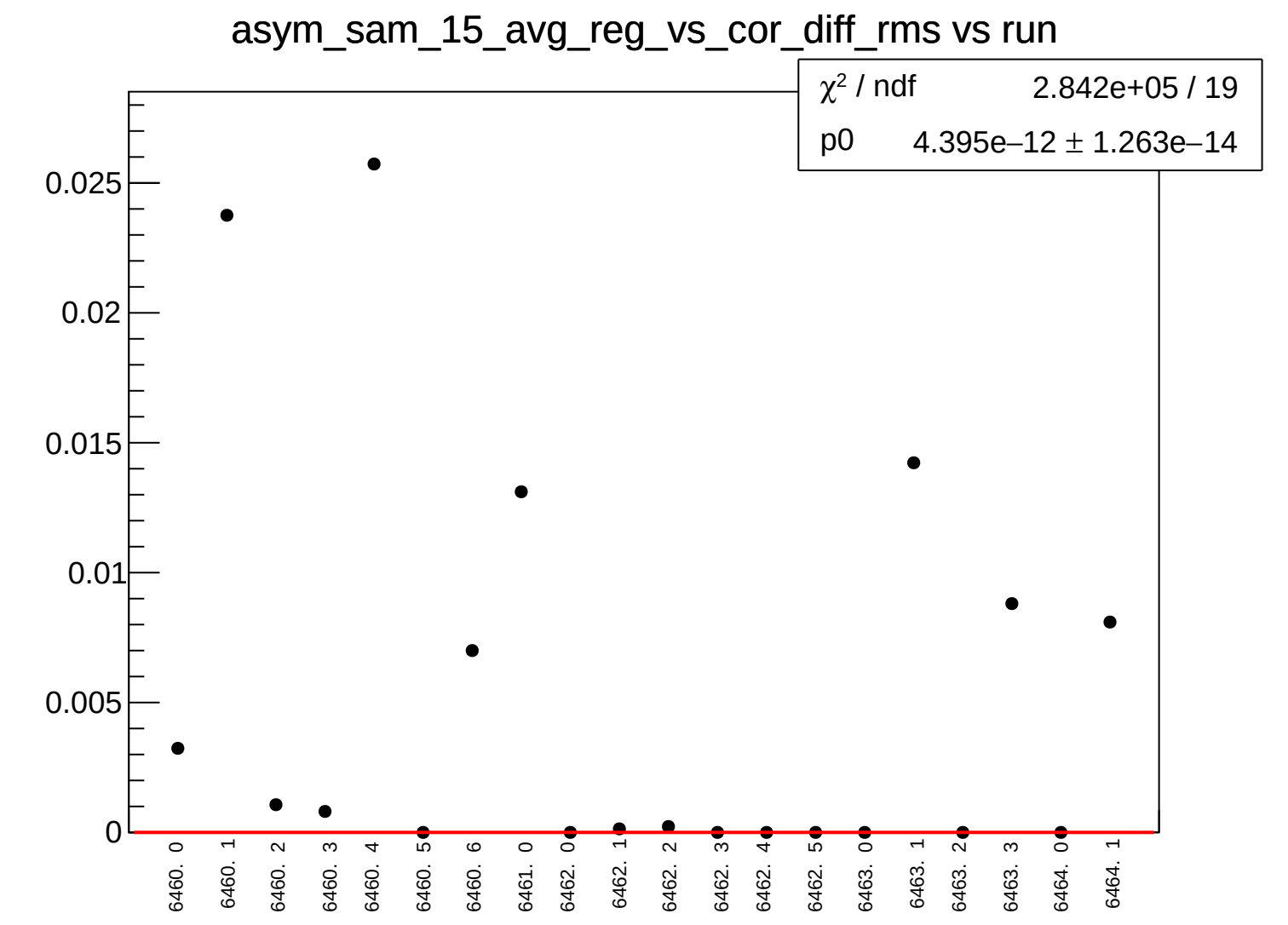

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1100 / 19
p0 297.4 ± 0.4678
340
330
320
310
300
290
280
270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

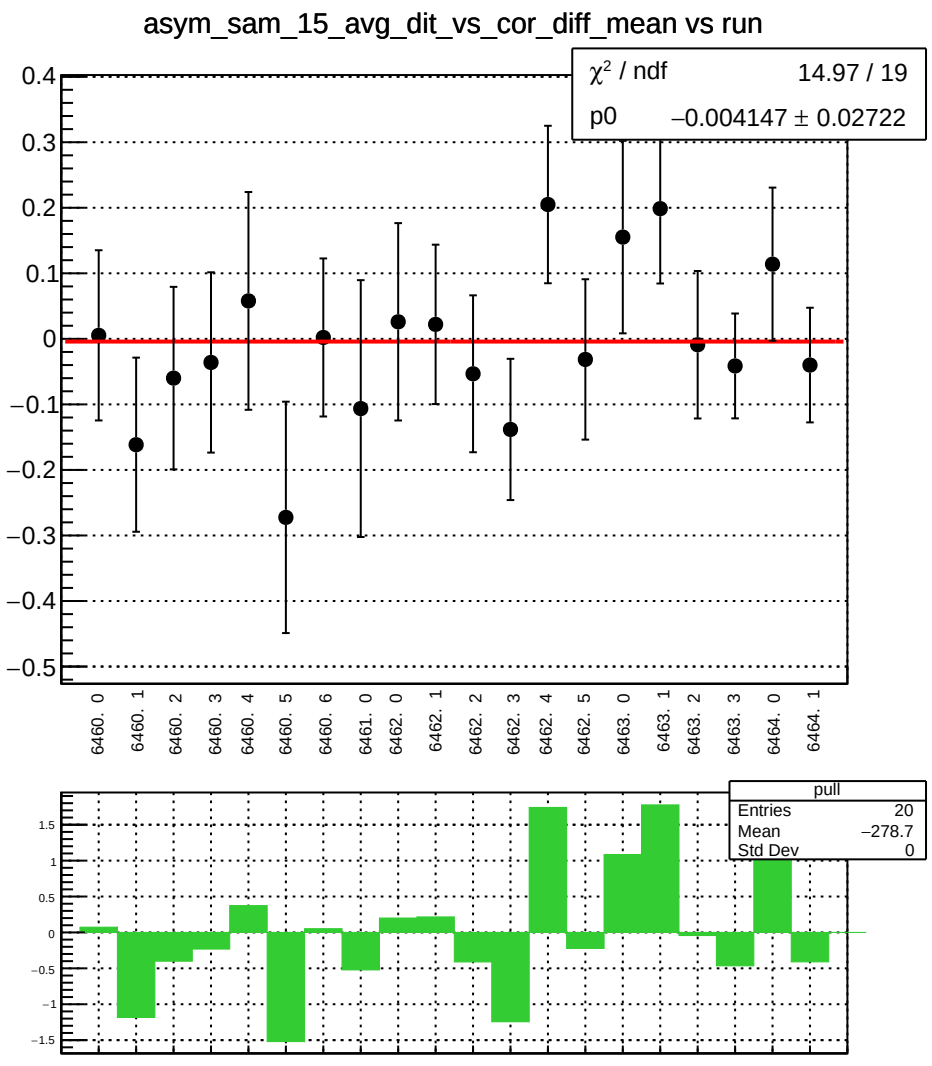

asym_sam_15_avg_mean vs run
χ² / ndf 11.92 / 19
p0 434.4 ± 679.8
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

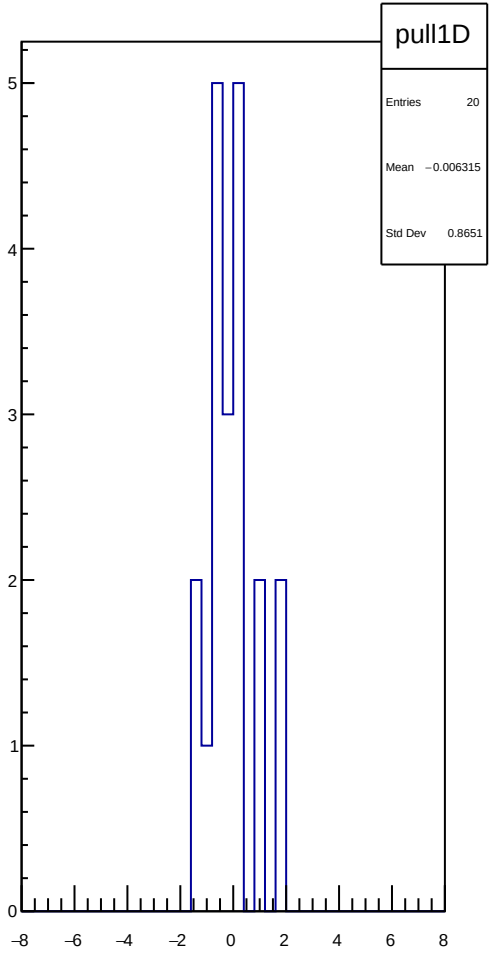

pull1D
Entries 20
Mean −0.01918
Std Dev 0.7719
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

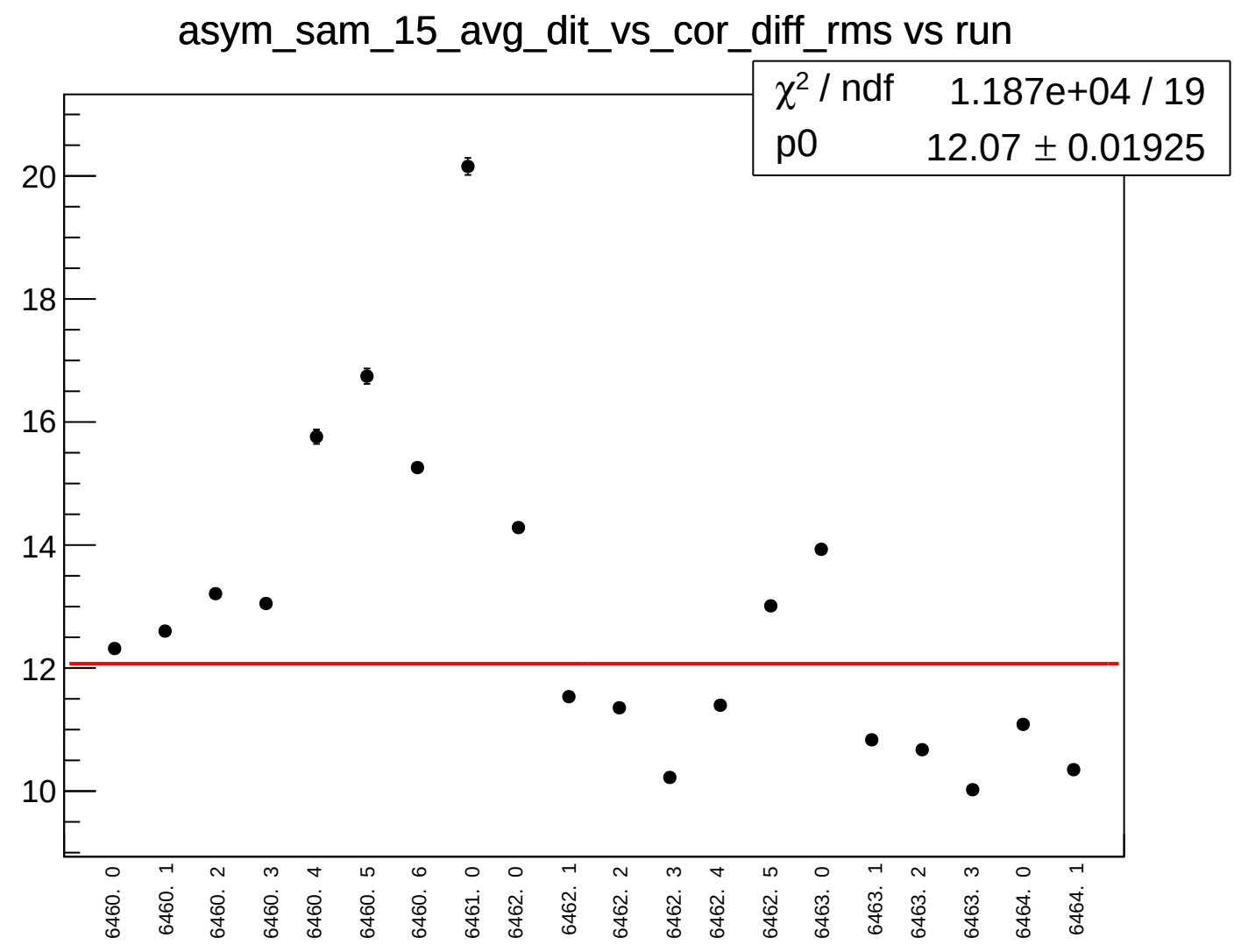

asym_sam_15_avg_rms vs run
χ² / ndf 1303 / 19
p0 305.5 ± 0.4807
360
350
340
330
320
310
300
290
280
270
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

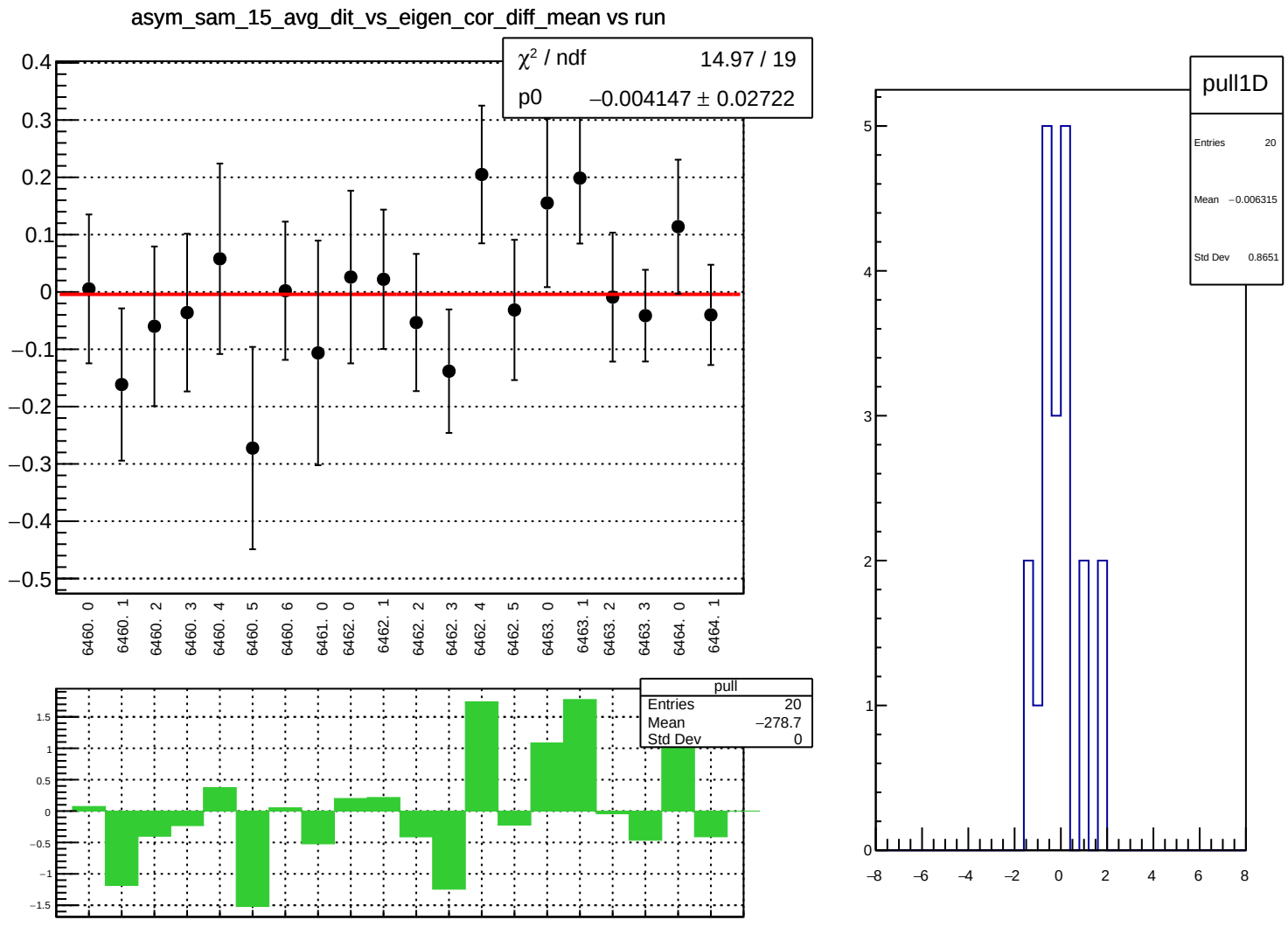

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 15.91 / 19
p0 −2.632e−14 ± 1.787e−14
0.6
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.721
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.08768
Std Dev 0.8877
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

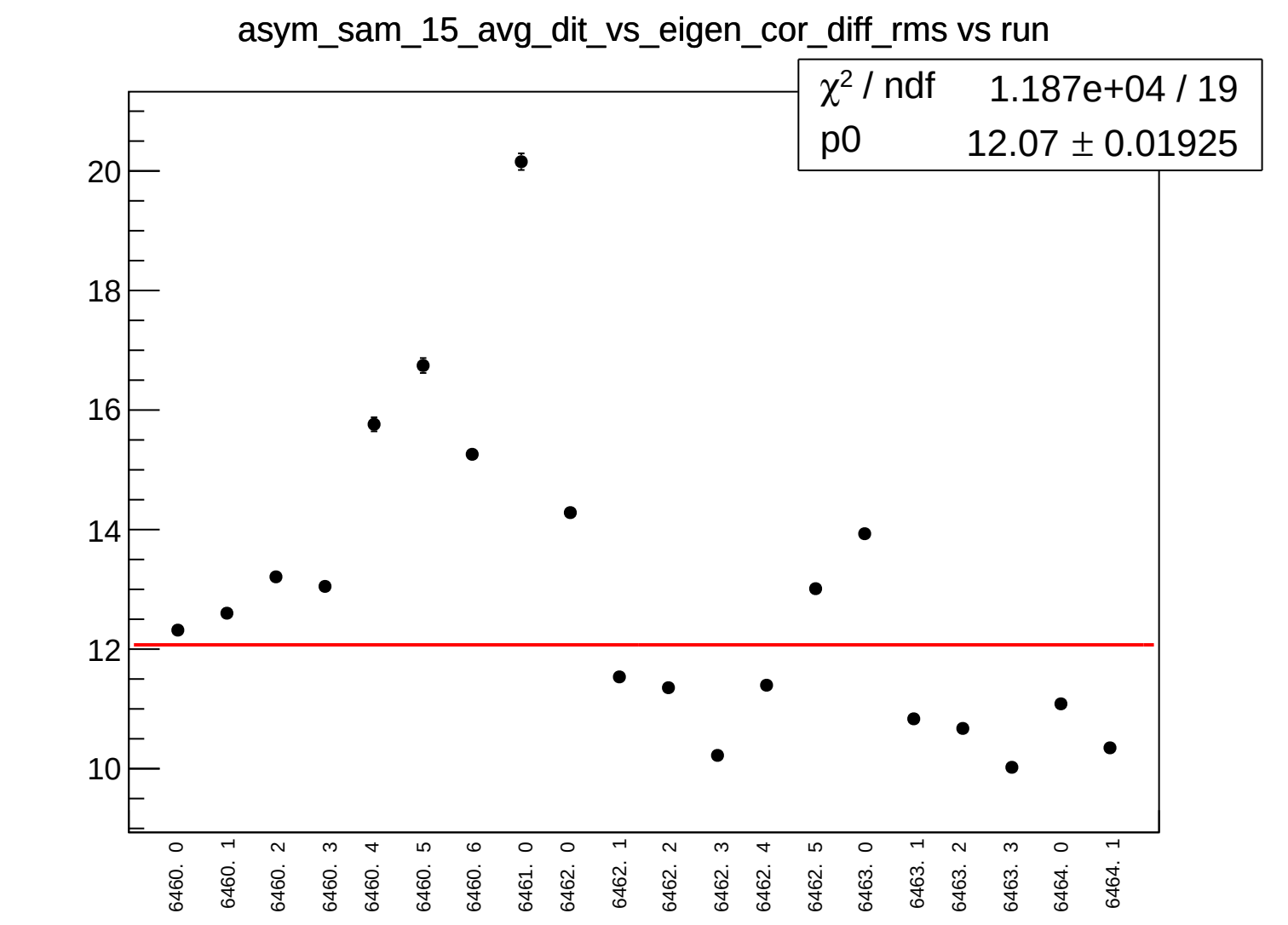

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.842e+05 / 19
p0 4.395e−12 ± 1.263e−14
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

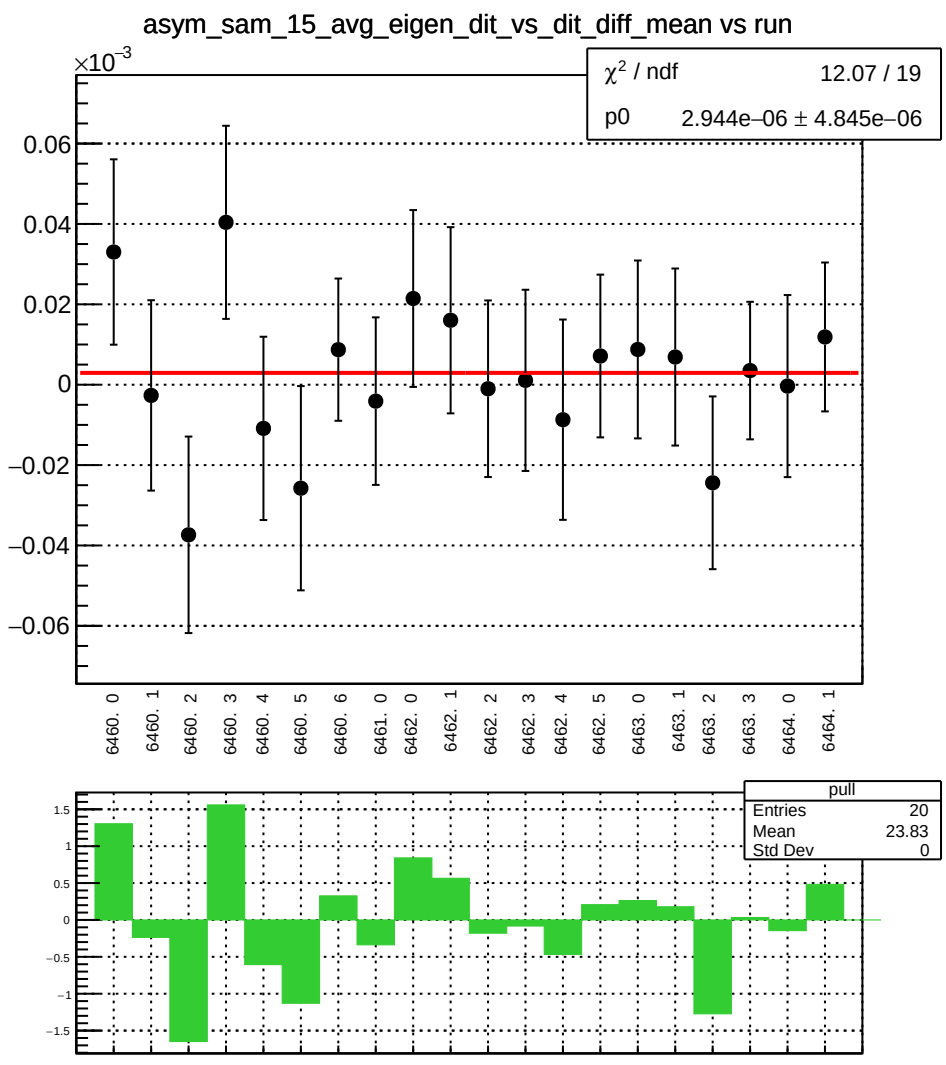

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 14.97 / 19
p0 −0.004147 ± 0.02722
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −278.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

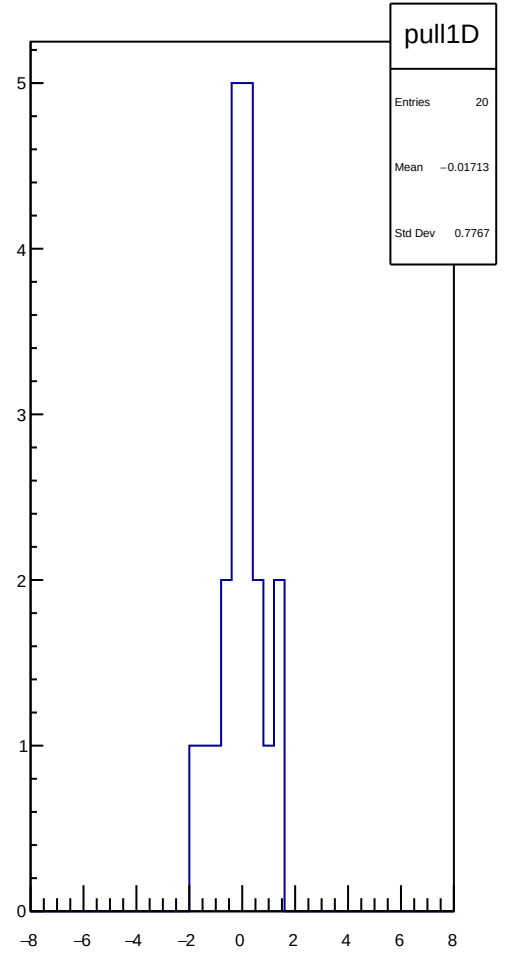

pull1D
Entries 20
Mean −0.006315
Std Dev 0.8651
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

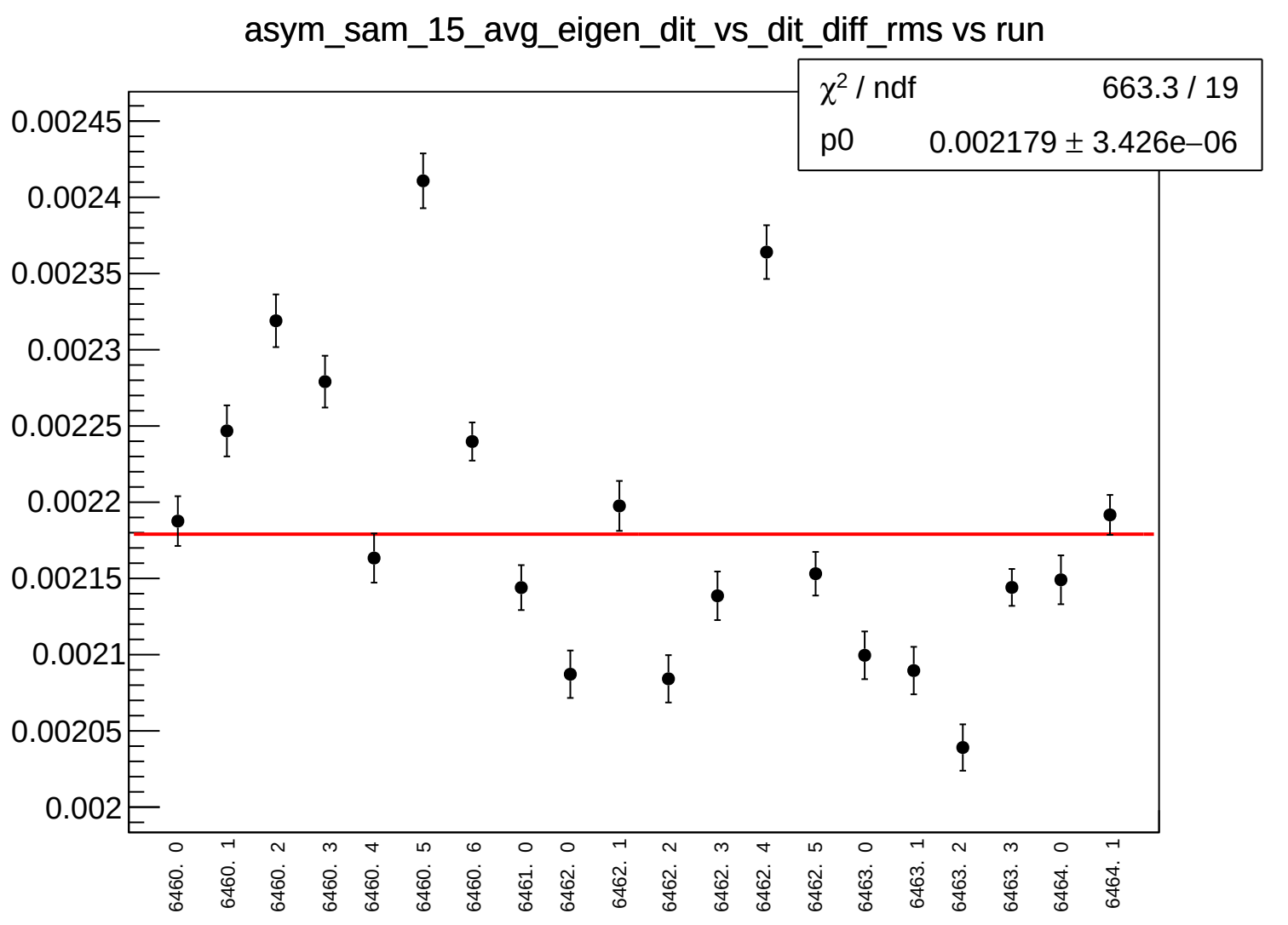

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.187e+04 / 19
p0 12.07 ± 0.01925
20
18
16
14
12
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

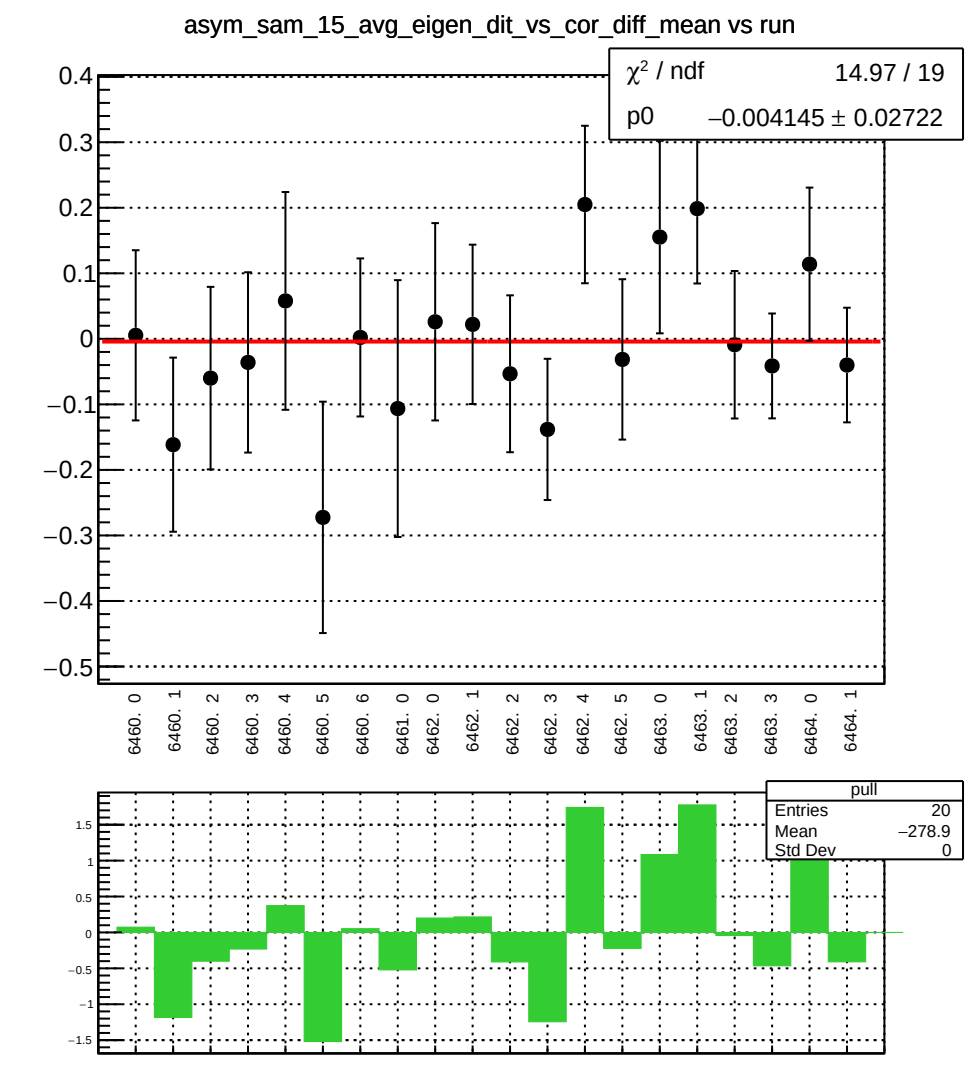

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.97 / 19
p0 −0.004147 ± 0.02722
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −278.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.006315
Std Dev 0.8651
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

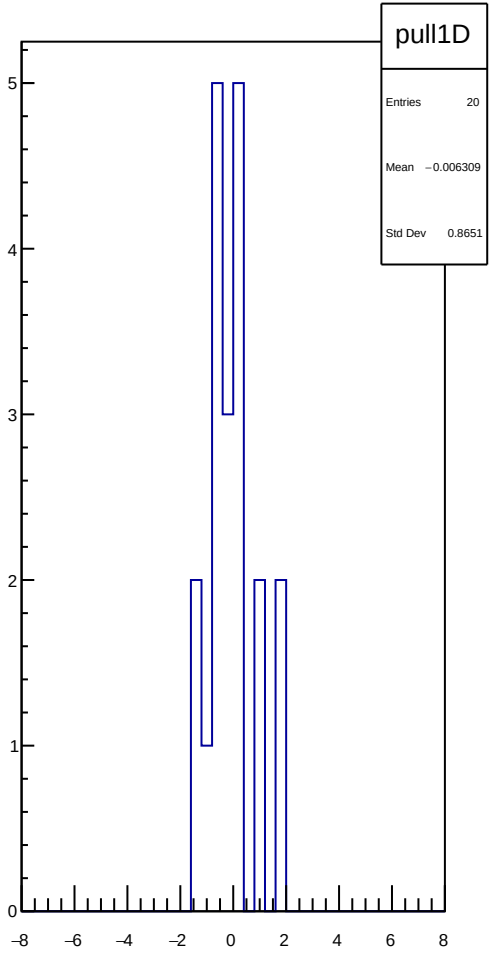

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.187e+04 / 19
p0 12.07 ± 0.01925
20
18
16
14
12
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

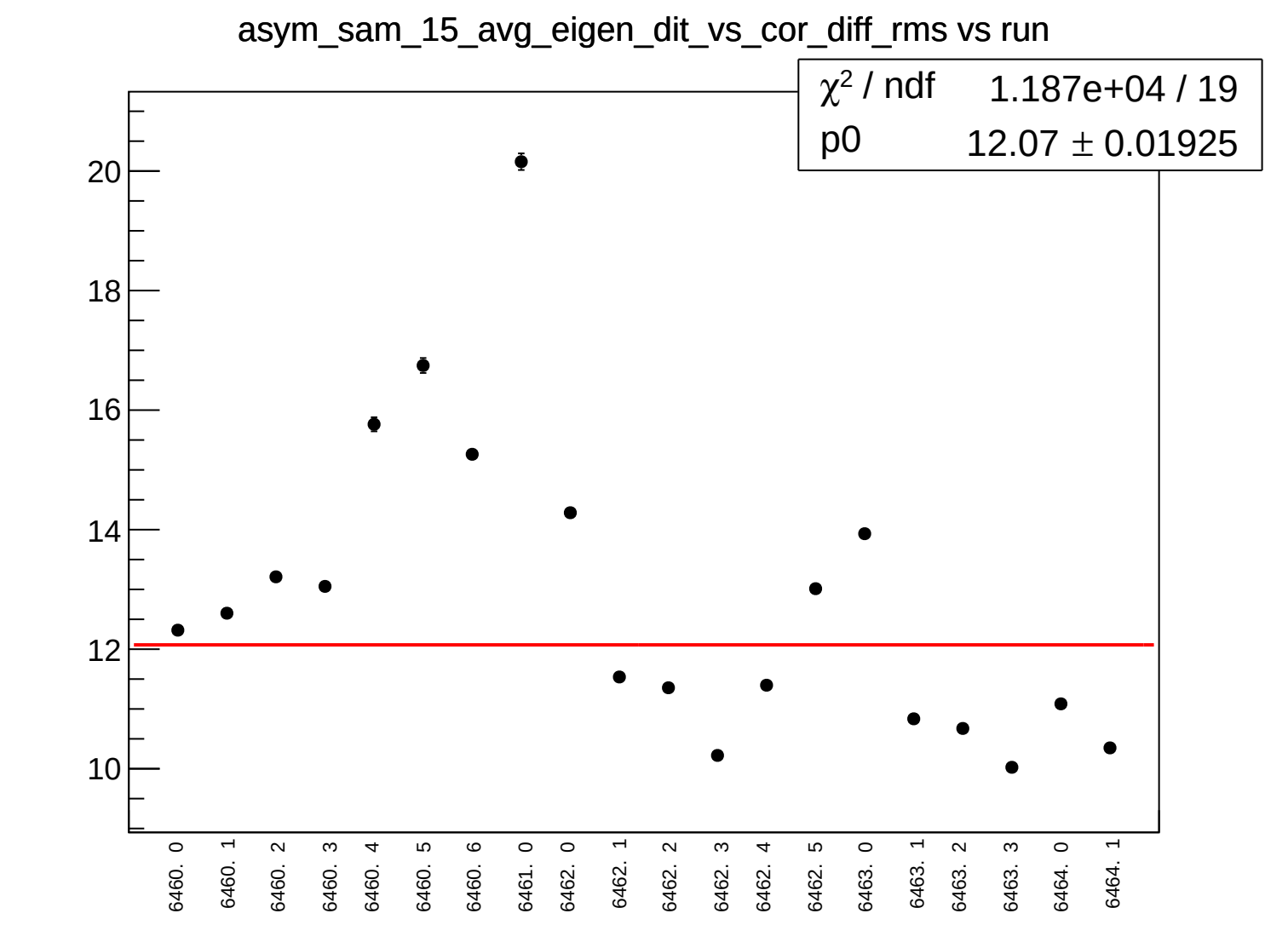

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.07 / 19
p0 2.944e−06 ± 4.845e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.83
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

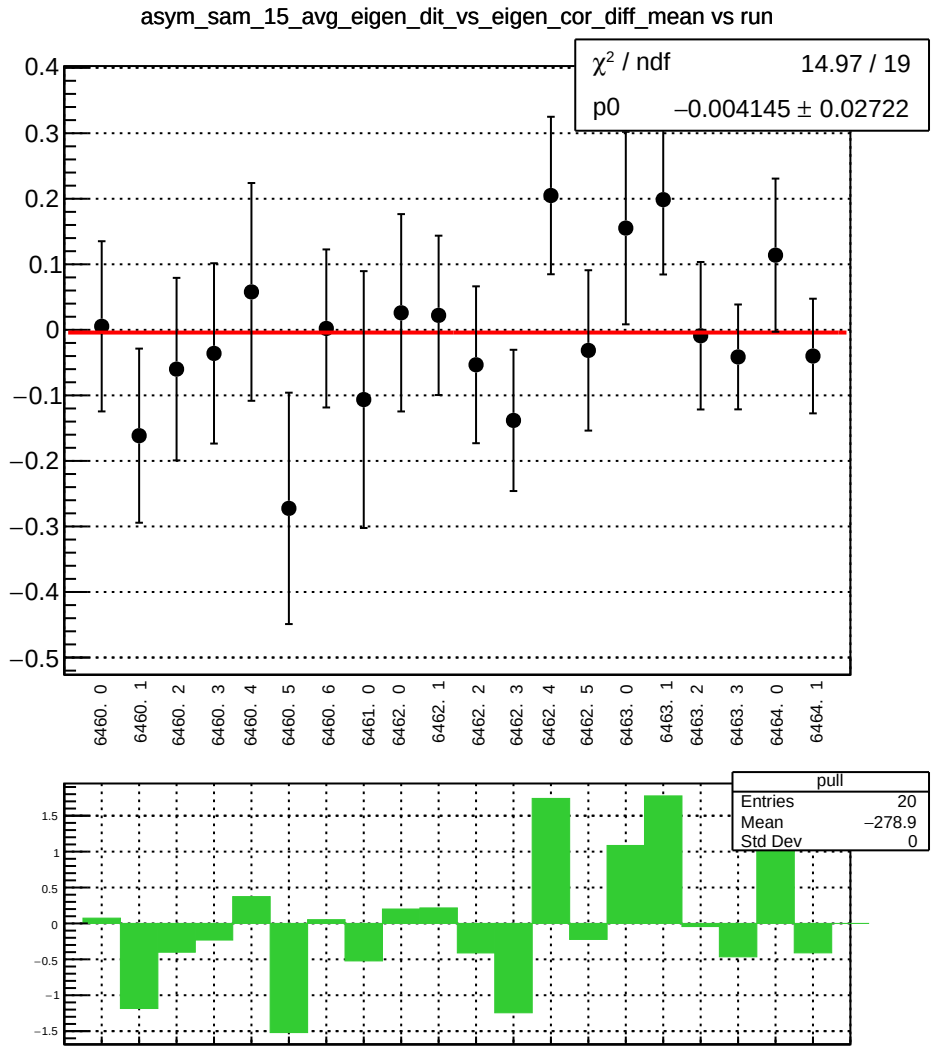

pull1D
Entries 20
Mean −0.01713
Std Dev 0.7767
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

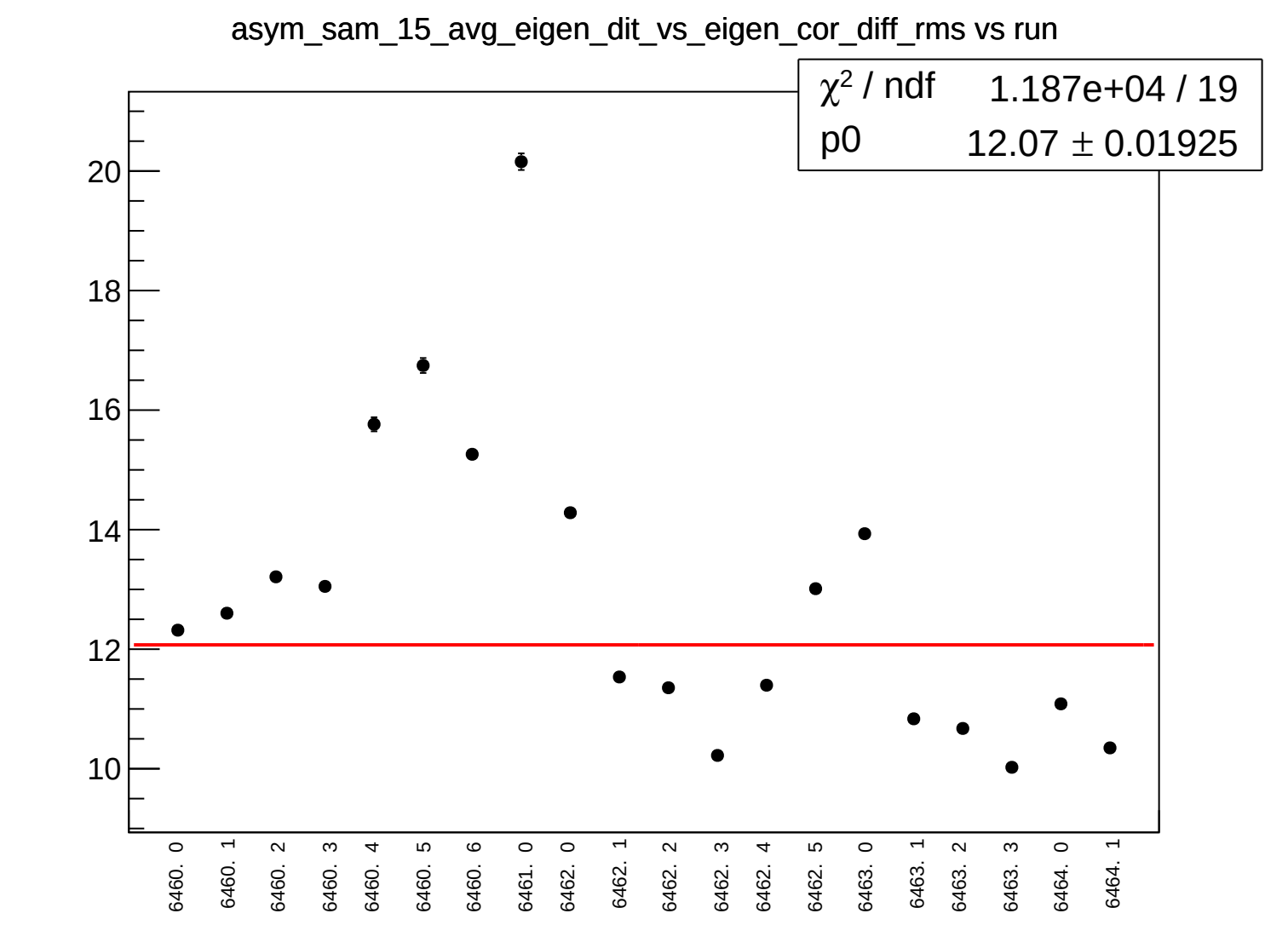

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 663.3 / 19
p0 0.002179 ± 3.426e−06
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

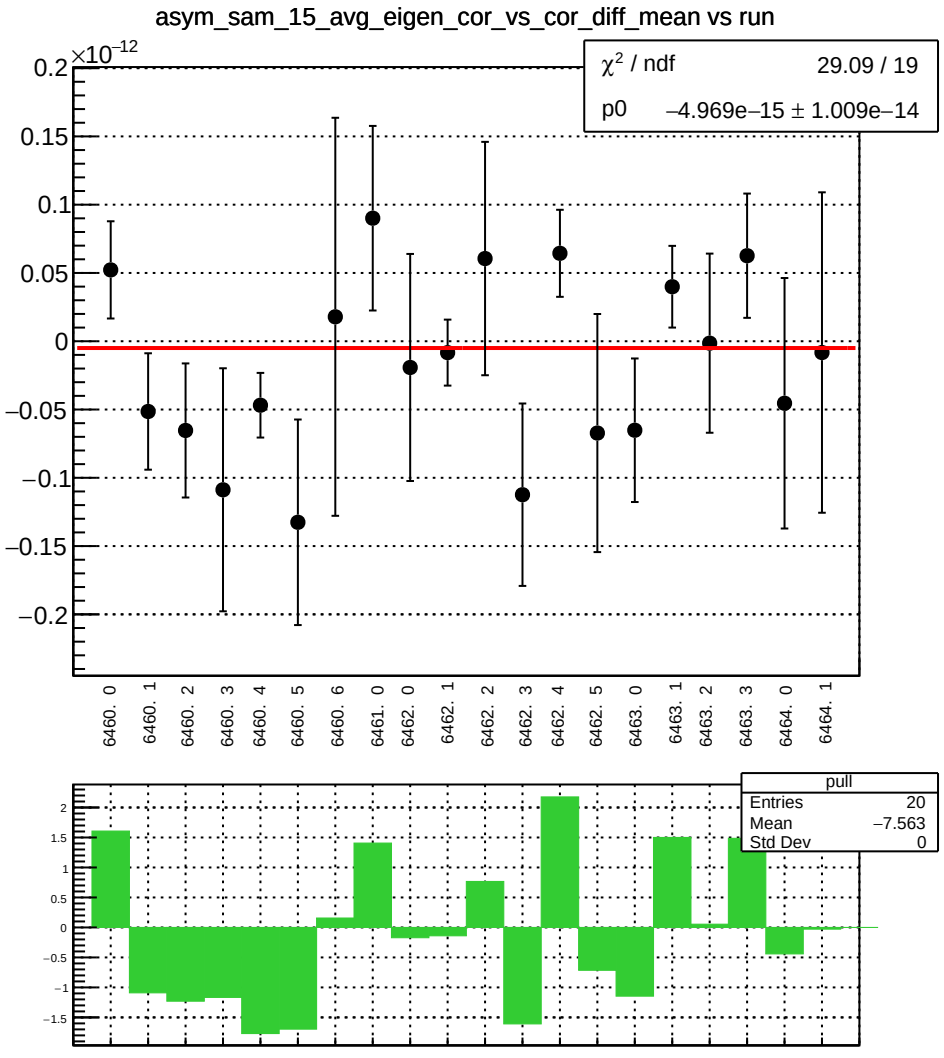

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 14.97 / 19
p0 −0.004145 ± 0.02722
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −278.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

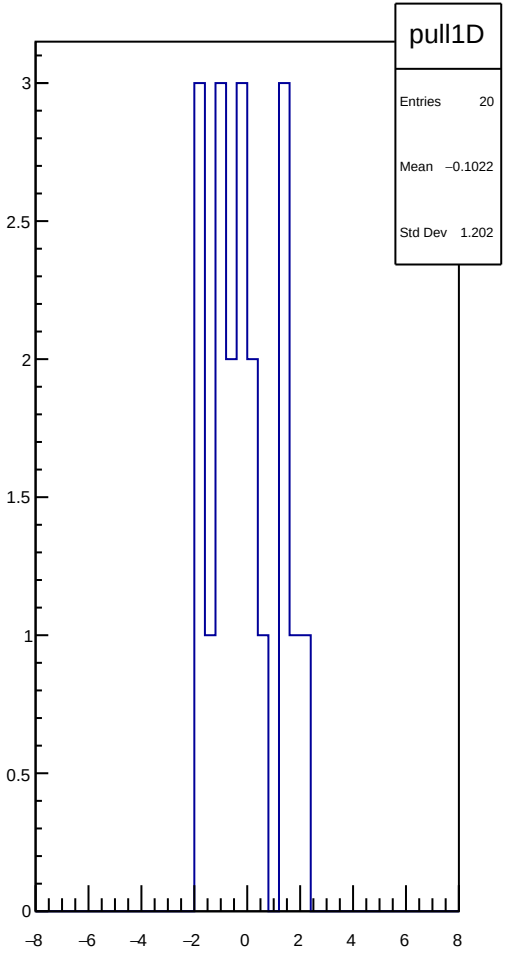

pull1D
Entries 20
Mean −0.006309
Std Dev 0.8651
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

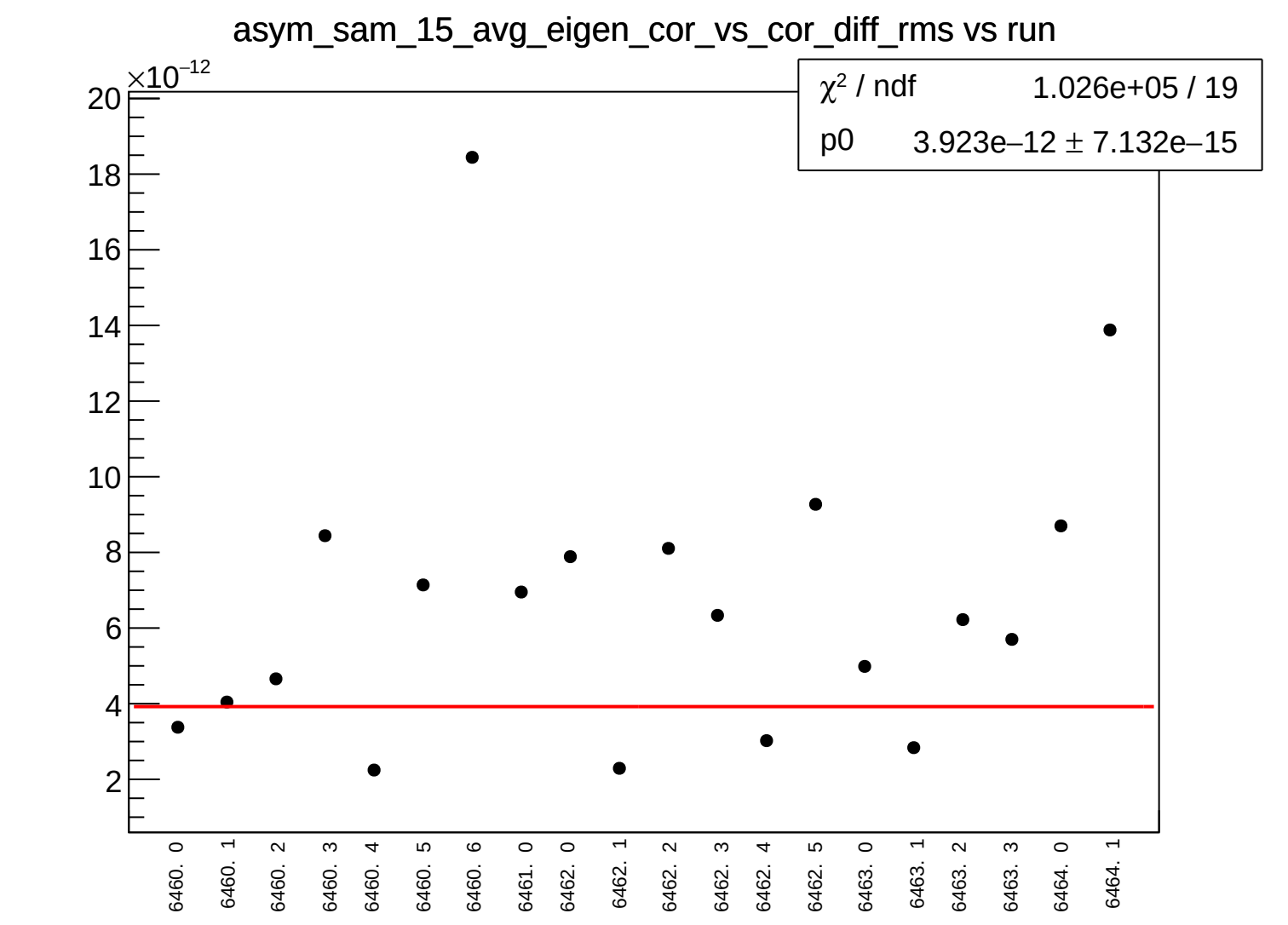

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.187e+04 / 19
p0 12.07 ± 0.01925
20
18
16
14
12
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

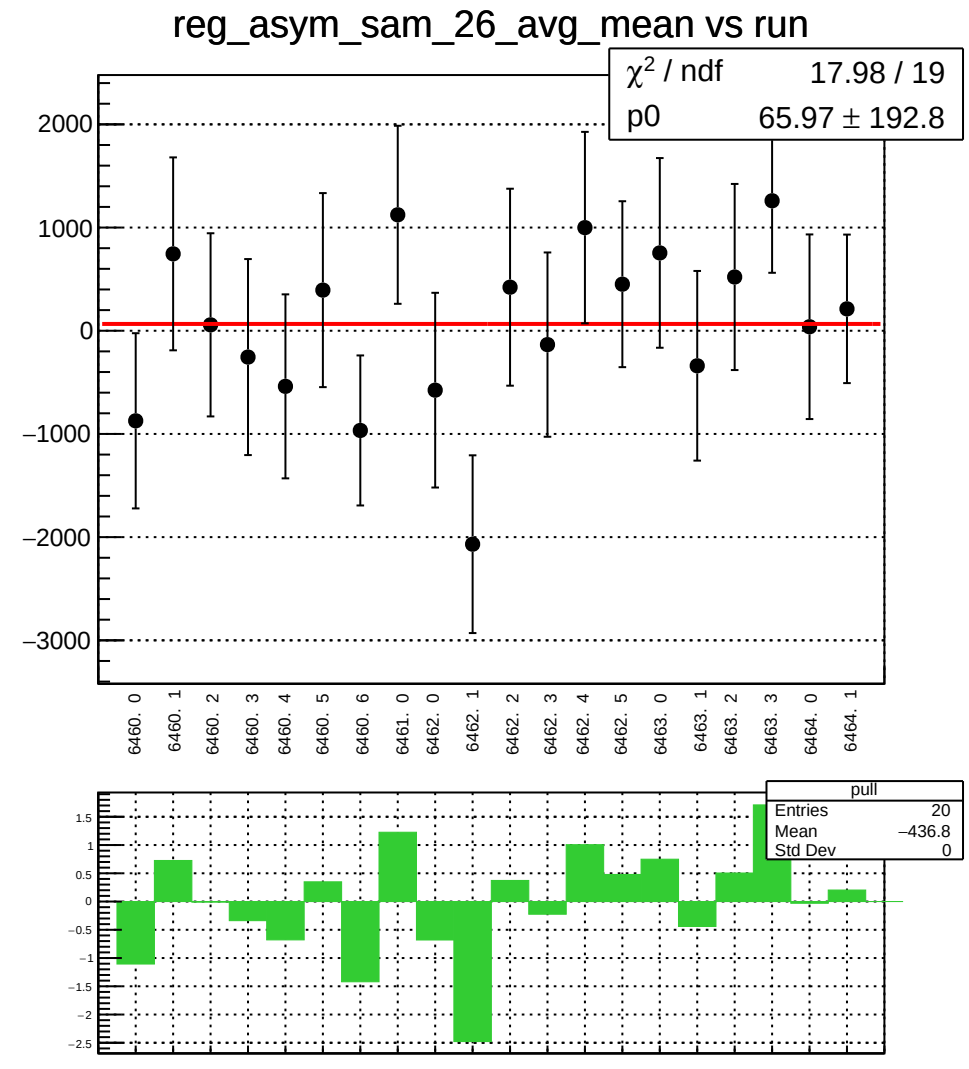

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.97 / 19
p0 −0.004145 ± 0.02722
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −278.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.006309
Std Dev 0.8651
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

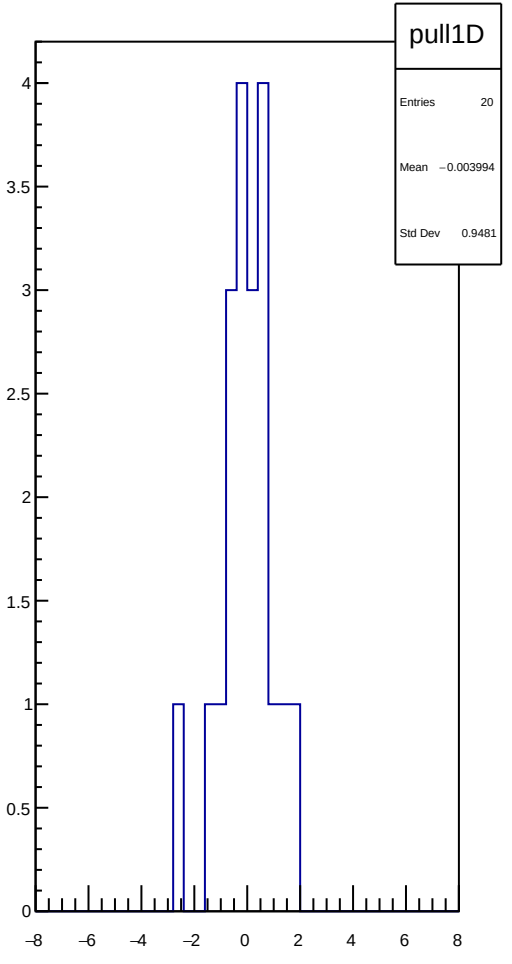

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.187e+04 / 19
p0 12.07 ± 0.01925
20
18
16
14
12
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

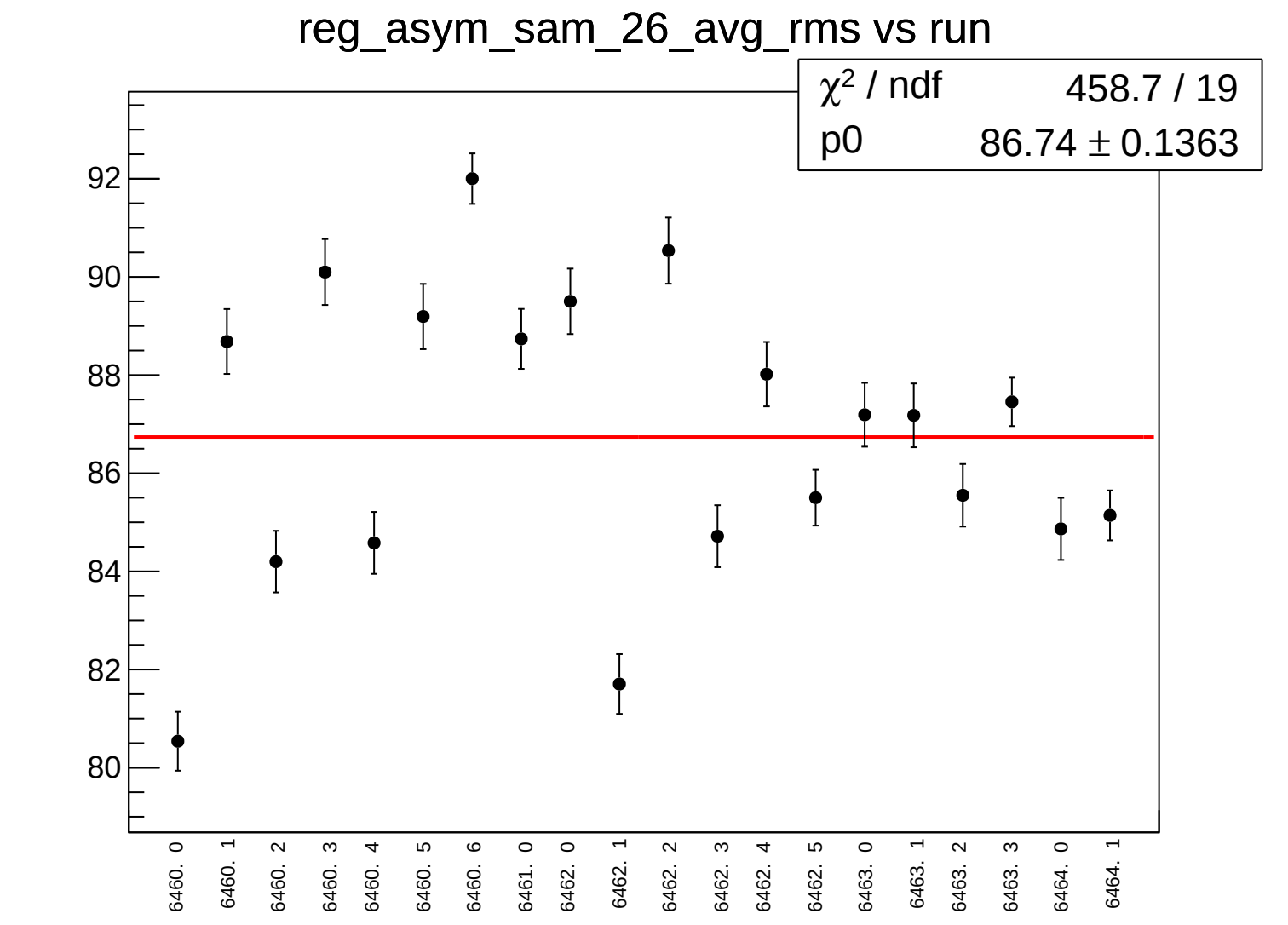

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.09 / 19
p0 −4.969e−15 ± 1.009e−14
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −7.563
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean −0.1022
Std Dev 1.202
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

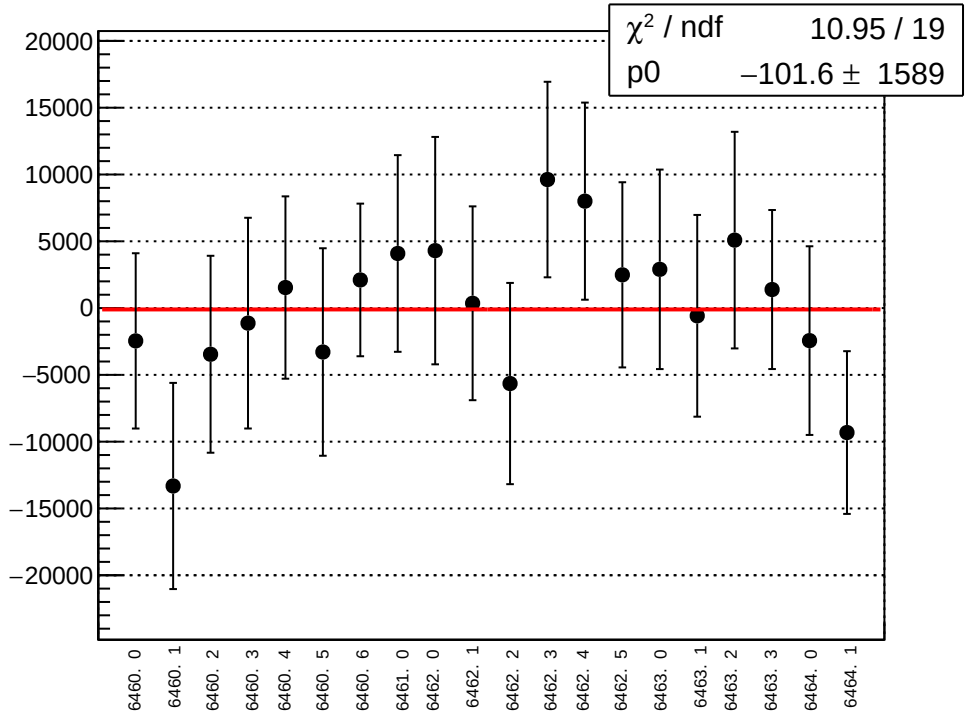

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.026e+05 / 19
p0 3.923e−12 ± 7.132e−15
20
18
16
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

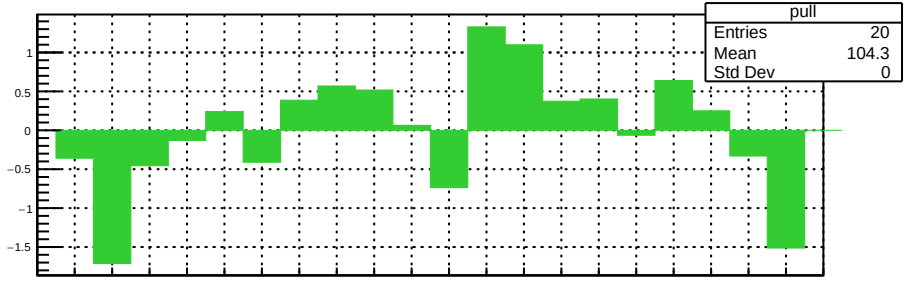

reg_asym_sam_26_avg_mean vs run
χ² / ndf 17.98 / 19
p0 65.97 ± 192.8
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −436.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

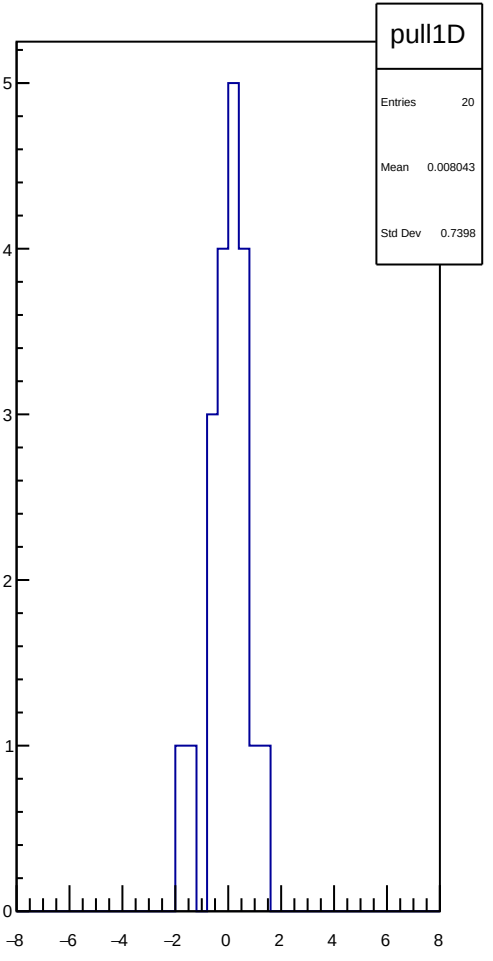

pull1D
Entries 20
Mean −0.003994
Std Dev 0.9481
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

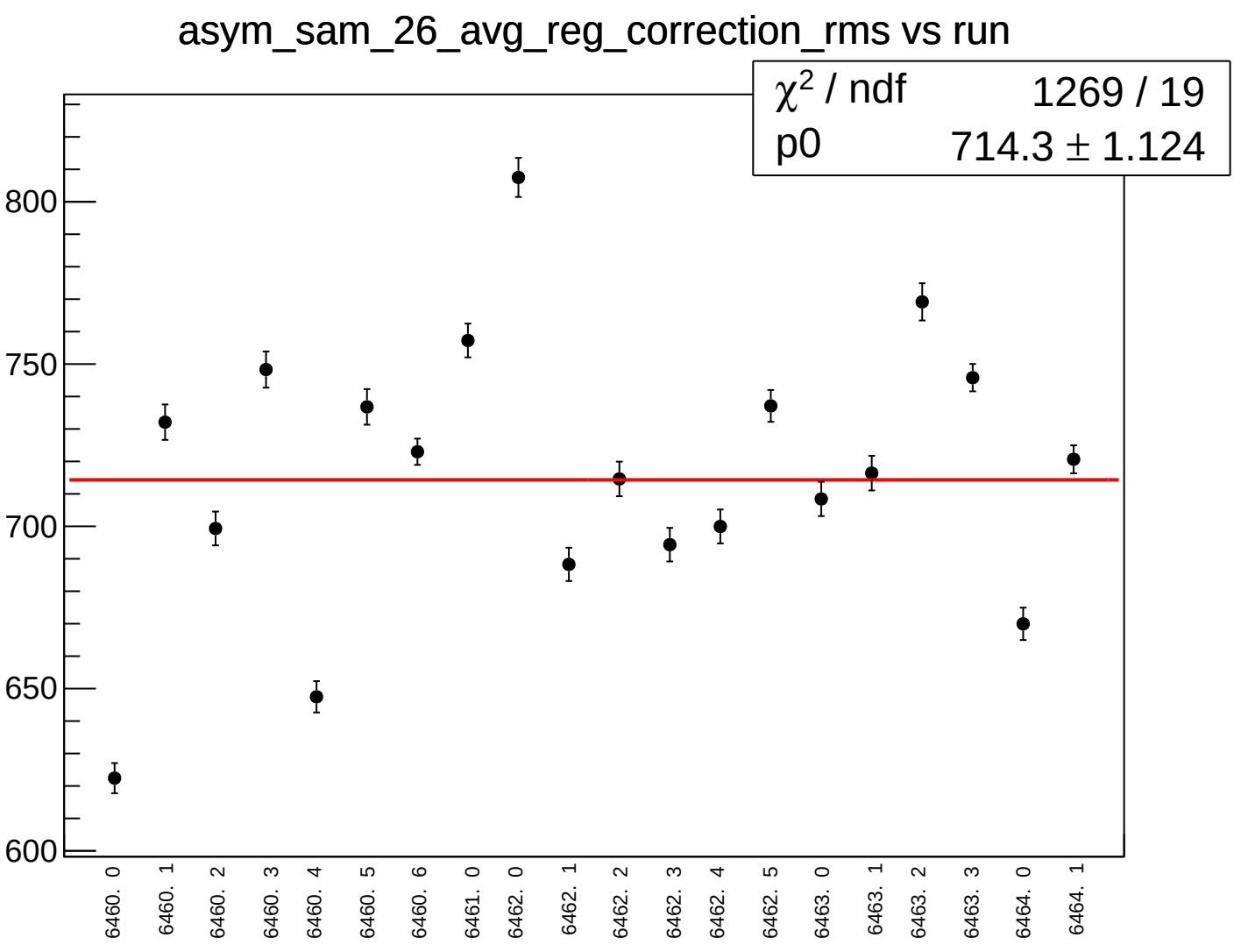

reg_asym_sam_26_avg_rms vs run
χ² / ndf 458.7 / 19
p0 86.74 ± 0.1363
92
90
88
86
84
82
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

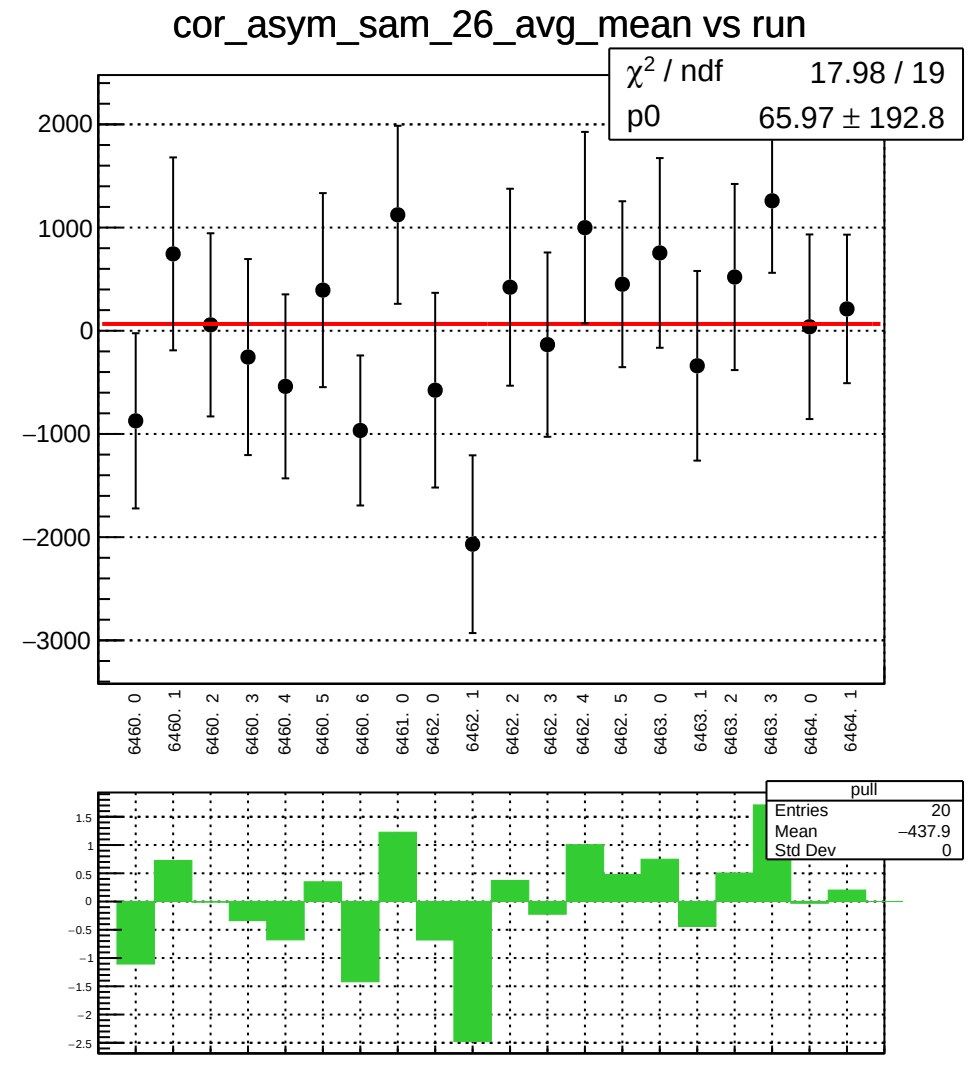
asym_sam_26_avg_reg_correction_mean vs run

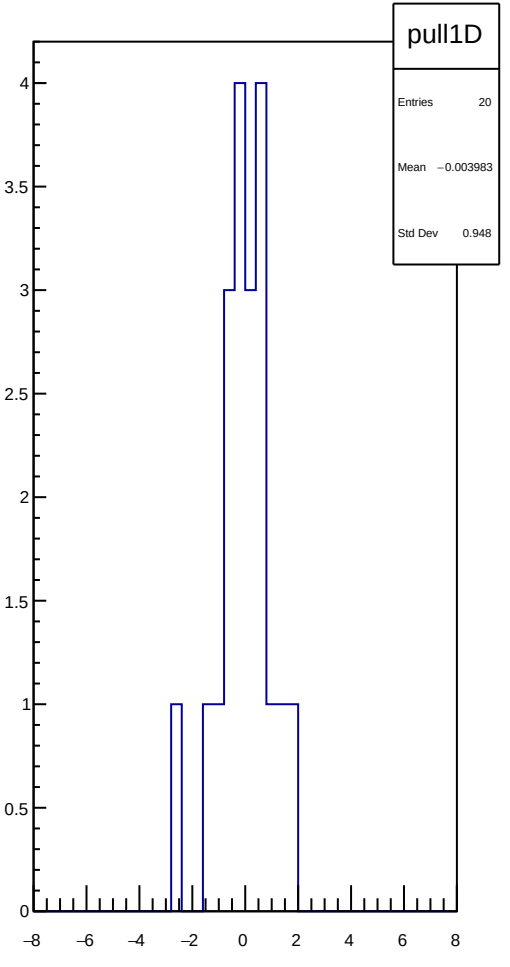


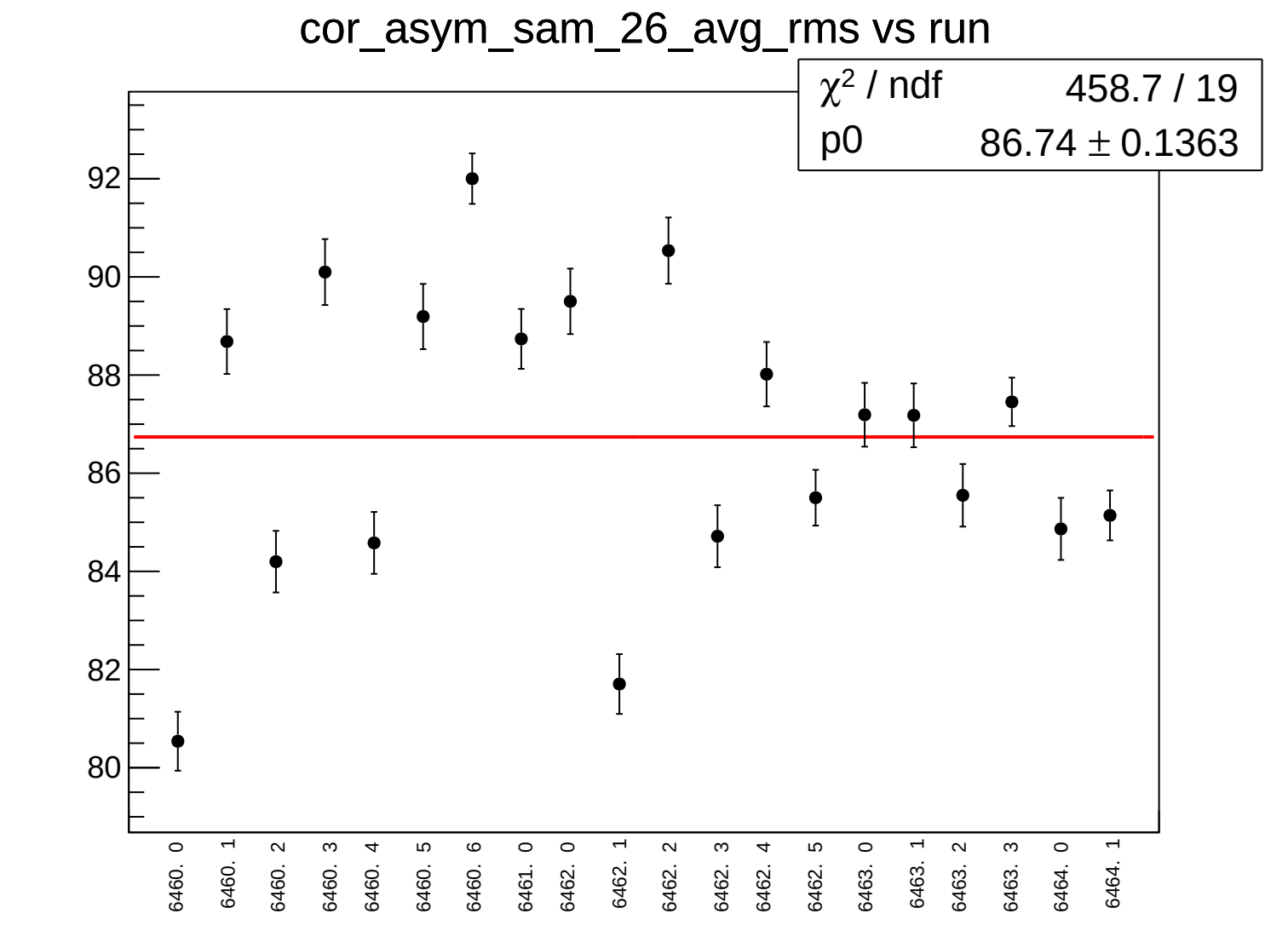


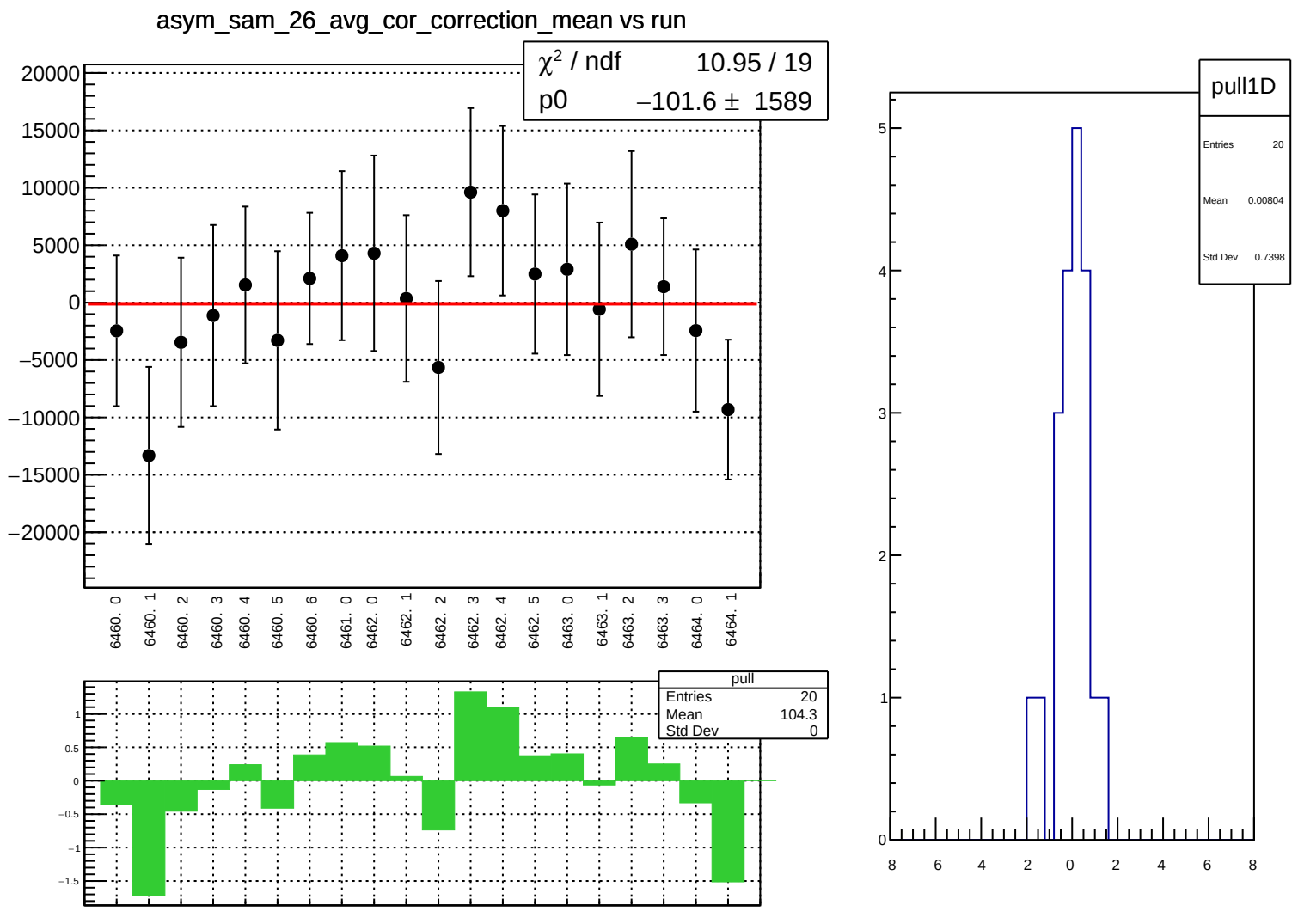


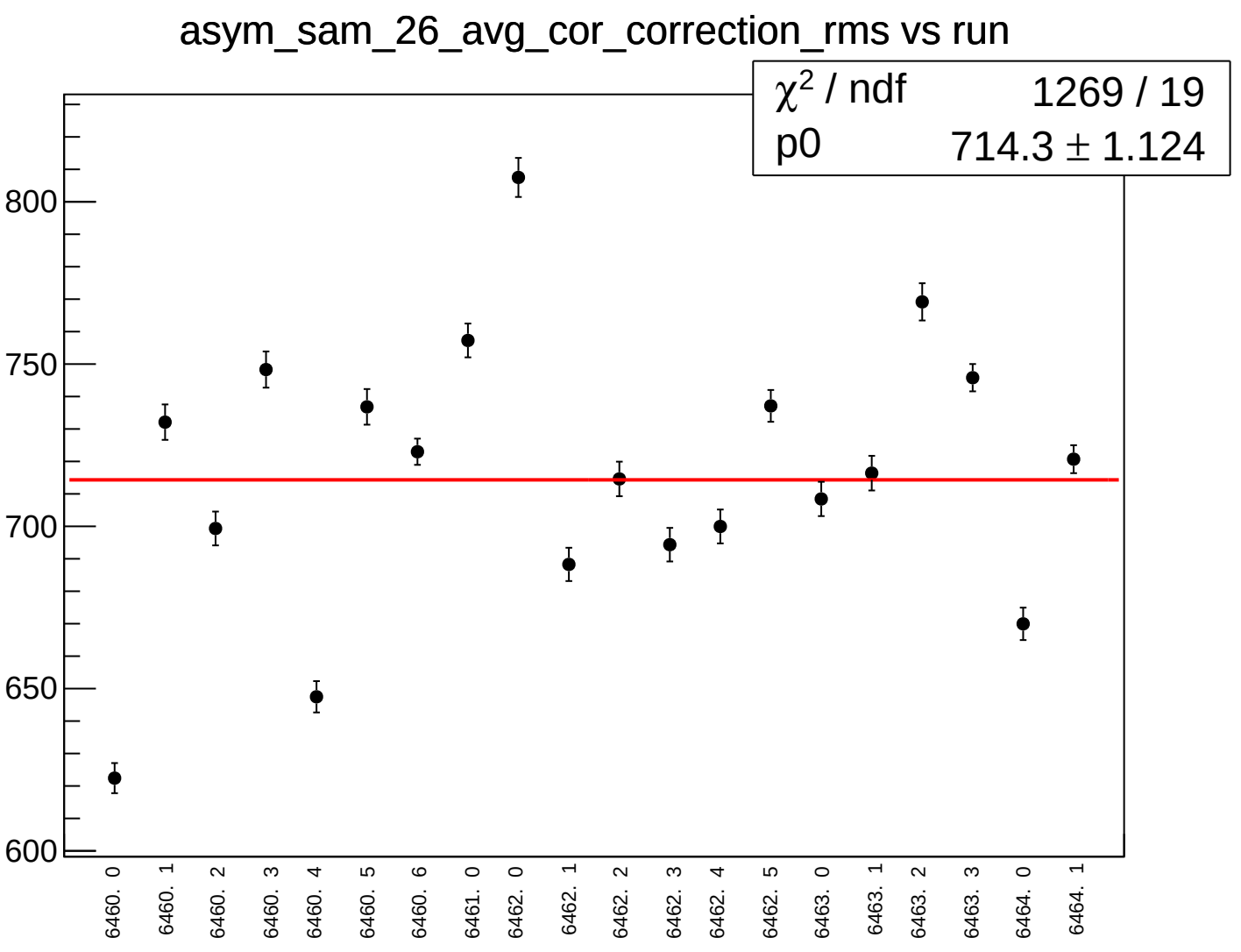

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1269 / 19
p0 714.3 ± 1.124
800
750
700
650
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

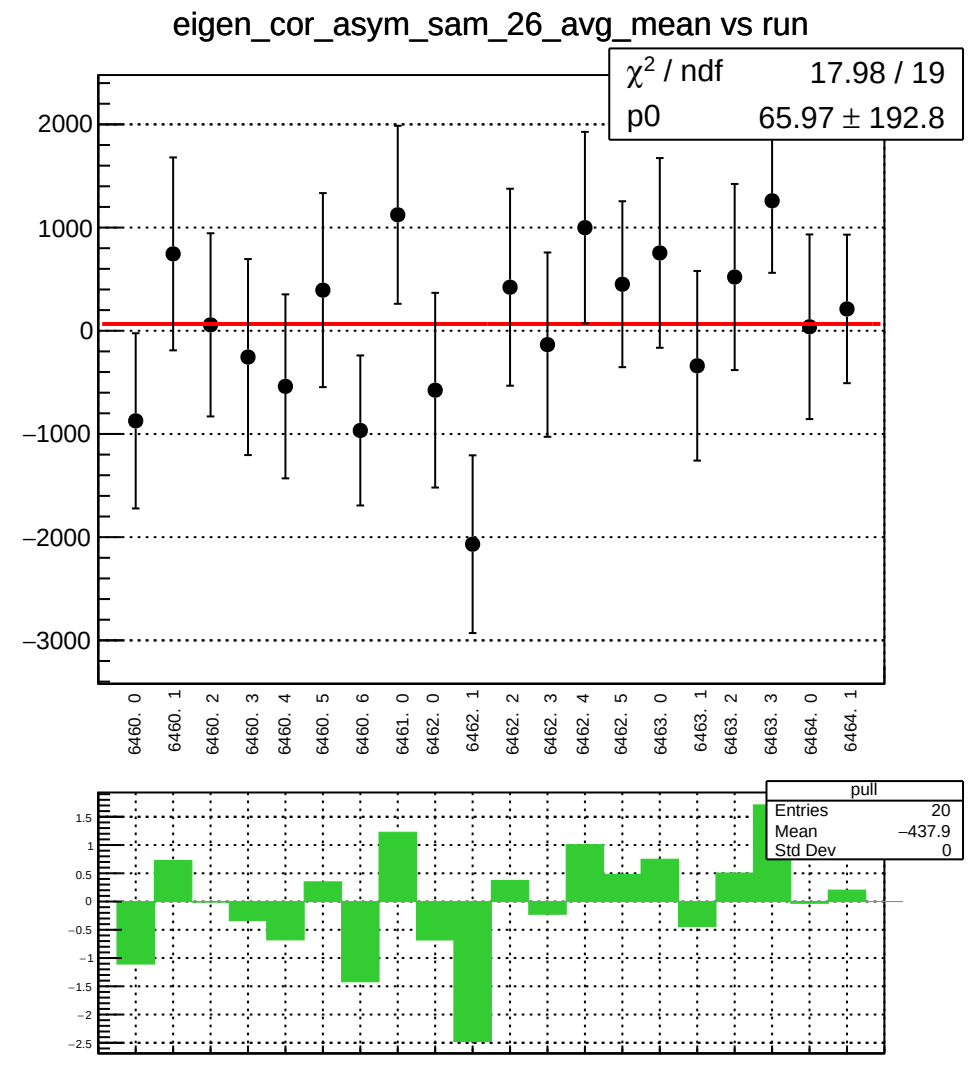

cor_asym_sam_26_avg_mean vs run
χ² / ndf 17.98 / 19
p0 65.97 ± 192.8
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −437.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

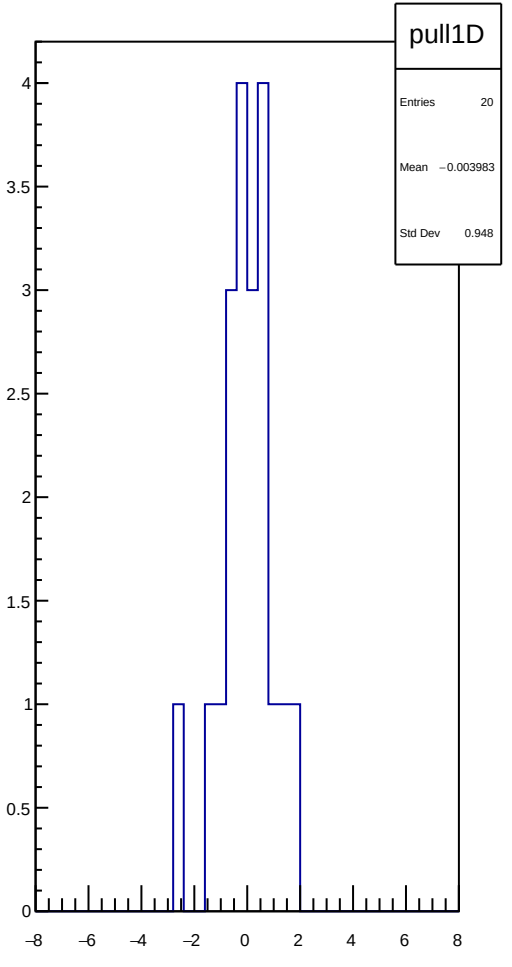

pull1D
Entries 20
Mean −0.003983
Std Dev 0.948
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

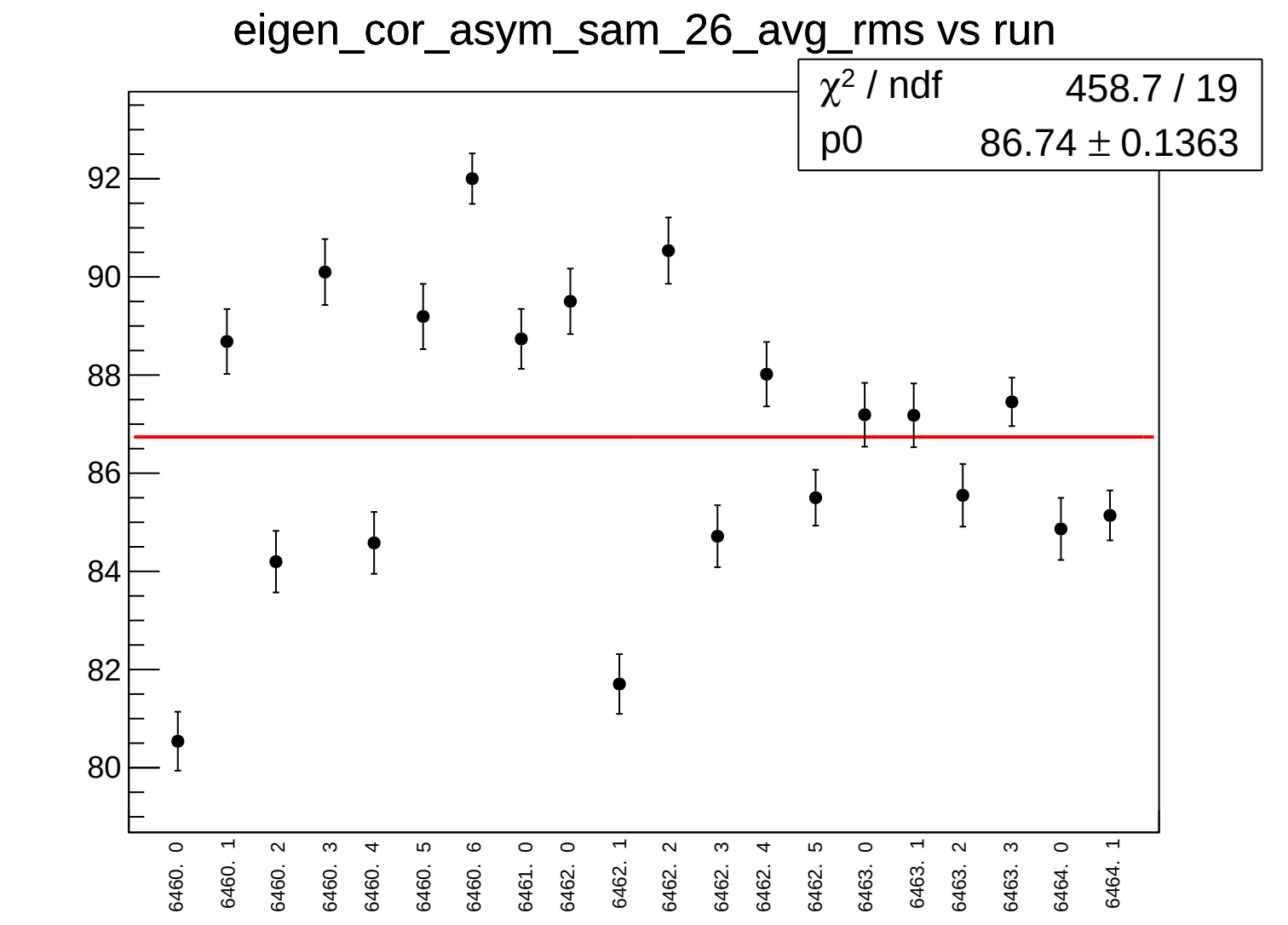

cor_asym_sam_26_avg_rms vs run
χ² / ndf 458.7 / 19
p0 86.74 ± 0.1363
92
90
88
86
84
82
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

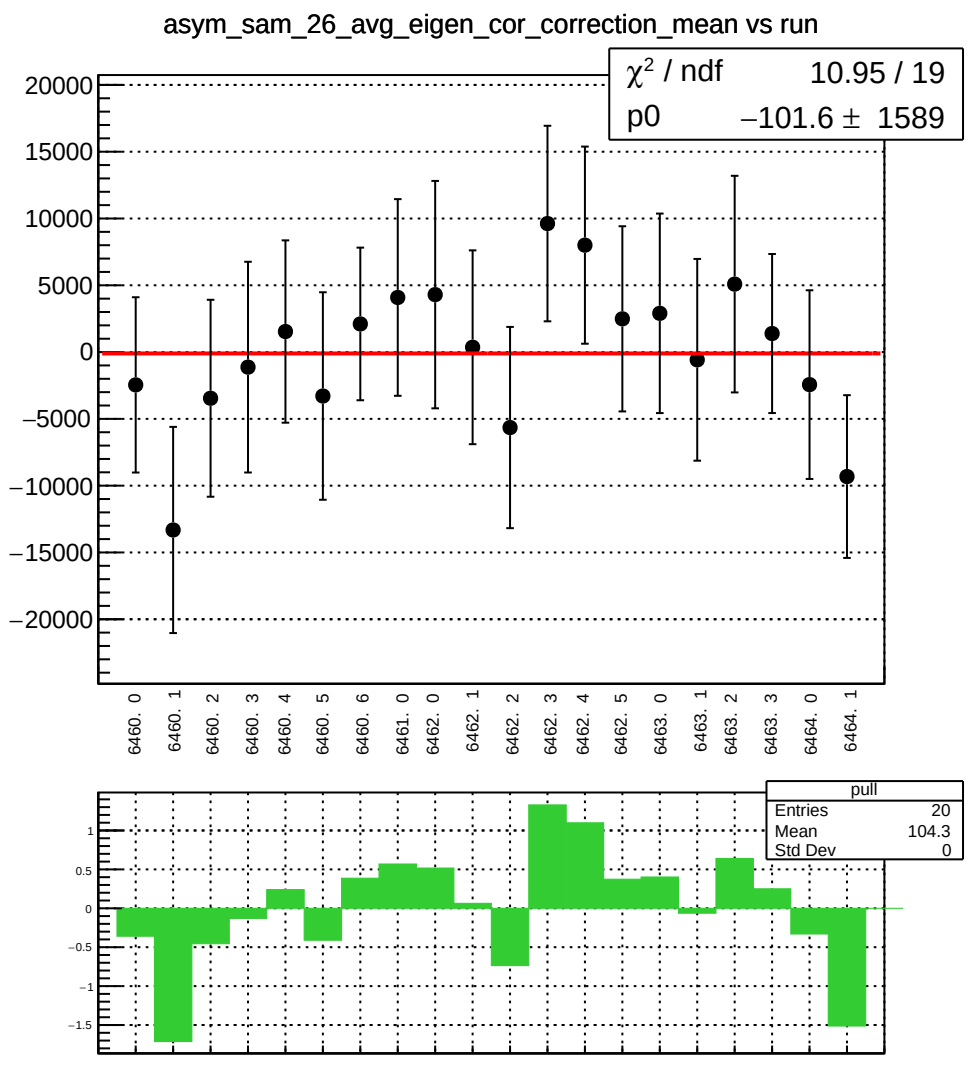

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 10.95 / 19
p0 −101.6 ± 1589
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 104.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.00804
Std Dev 0.7398
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

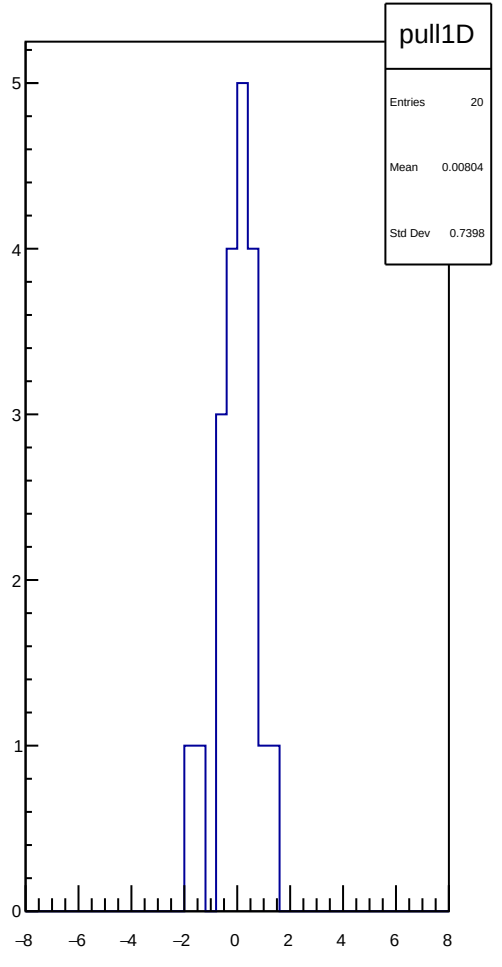

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1269 / 19
p0 714.3 ± 1.124
800
750
700
650
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

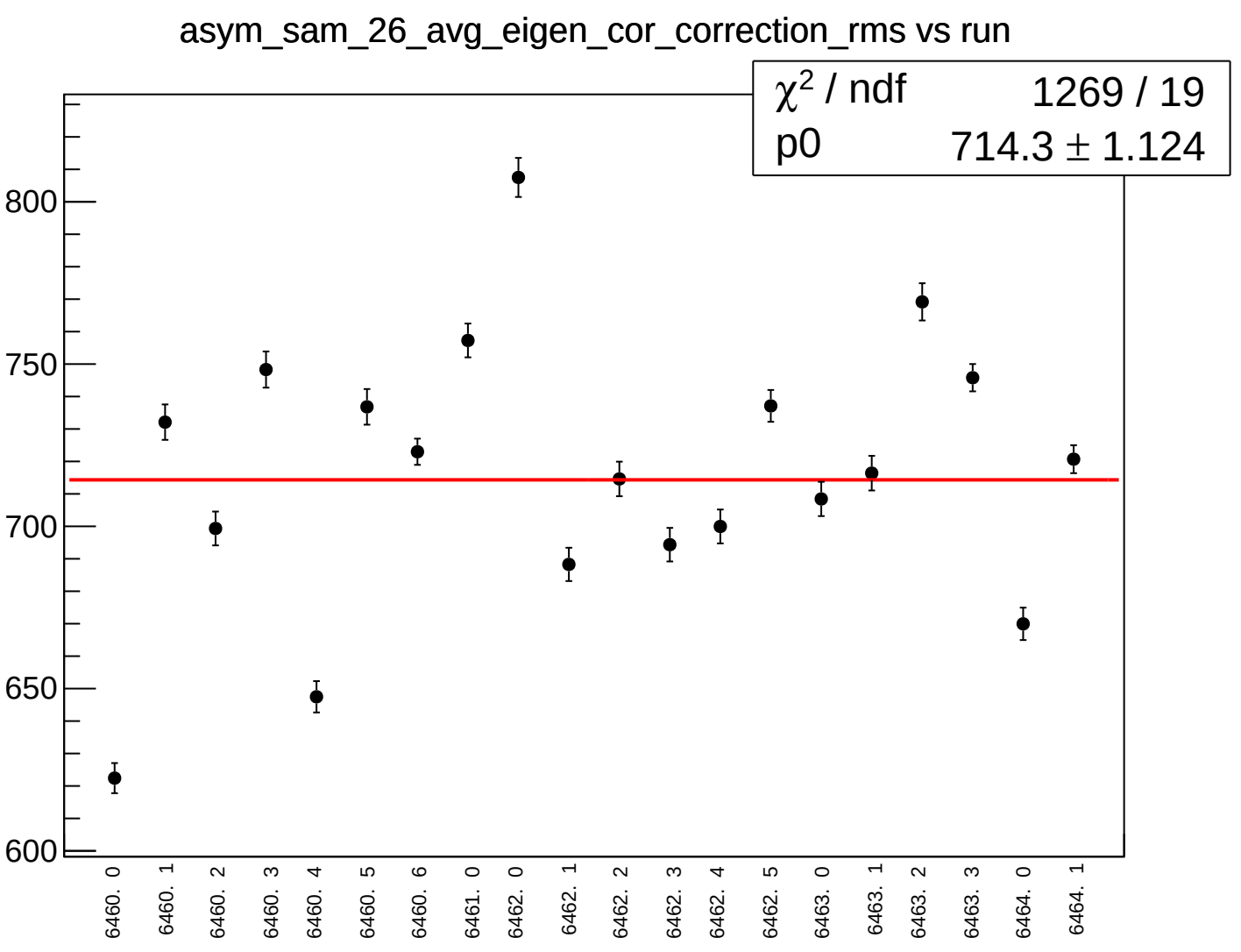

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 17.98 / 19
p0 65.97 ± 192.8
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −437.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

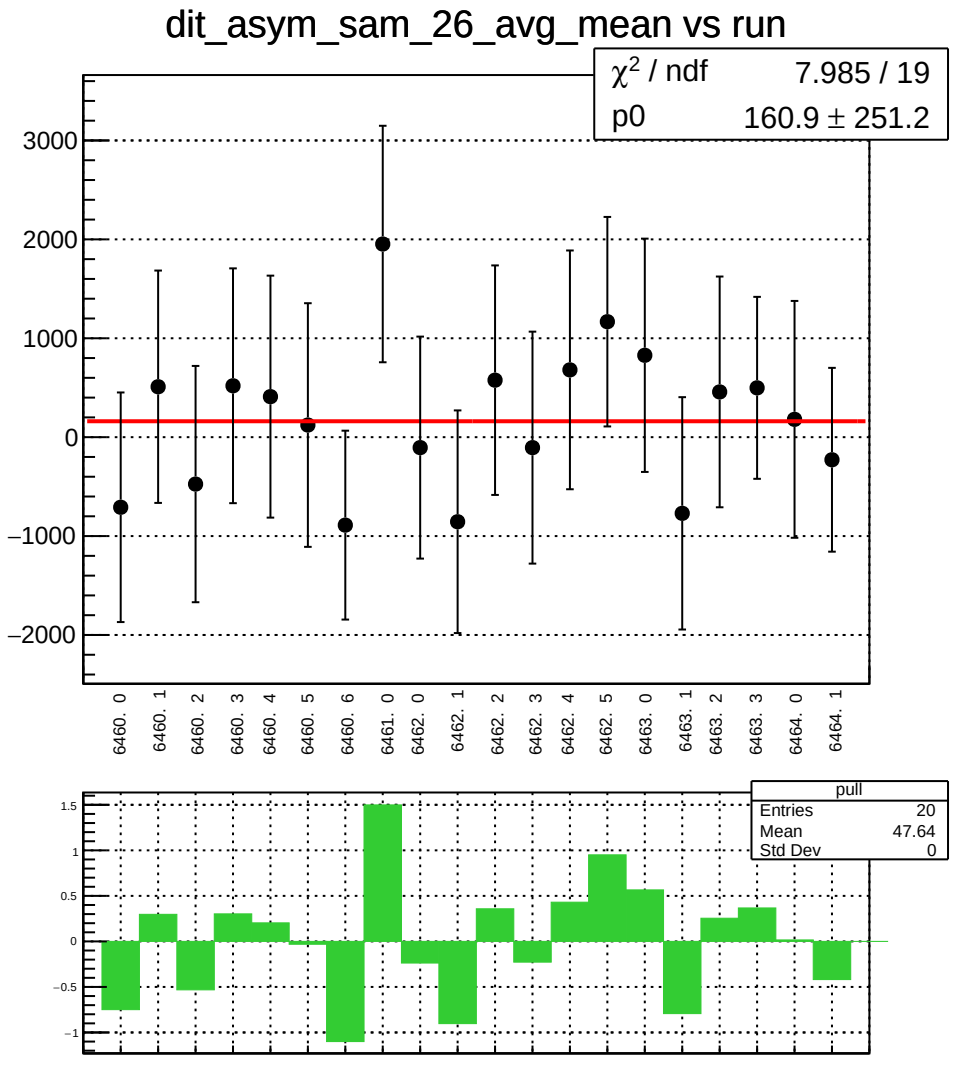

pull1D
Entries 20
Mean −0.003983
Std Dev 0.948
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

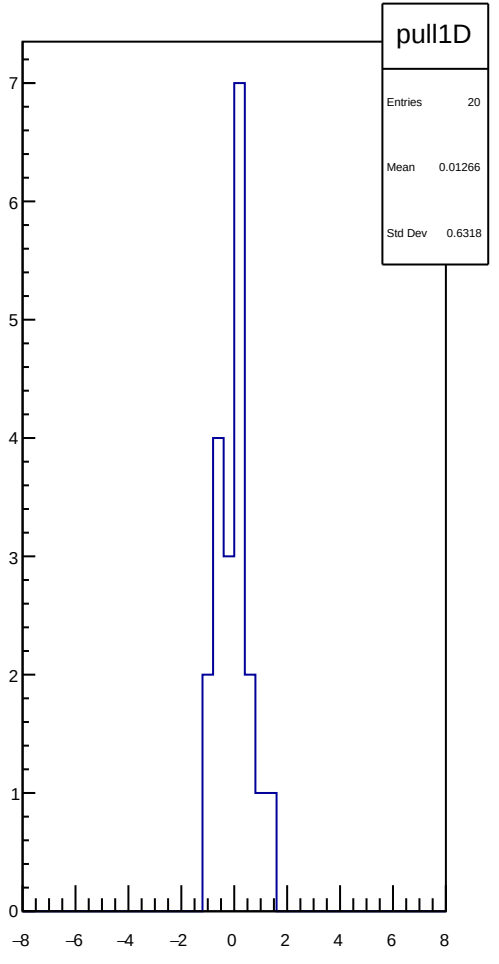

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 458.7 / 19
p0 86.74 ± 0.1363
92
90
88
86
84
82
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

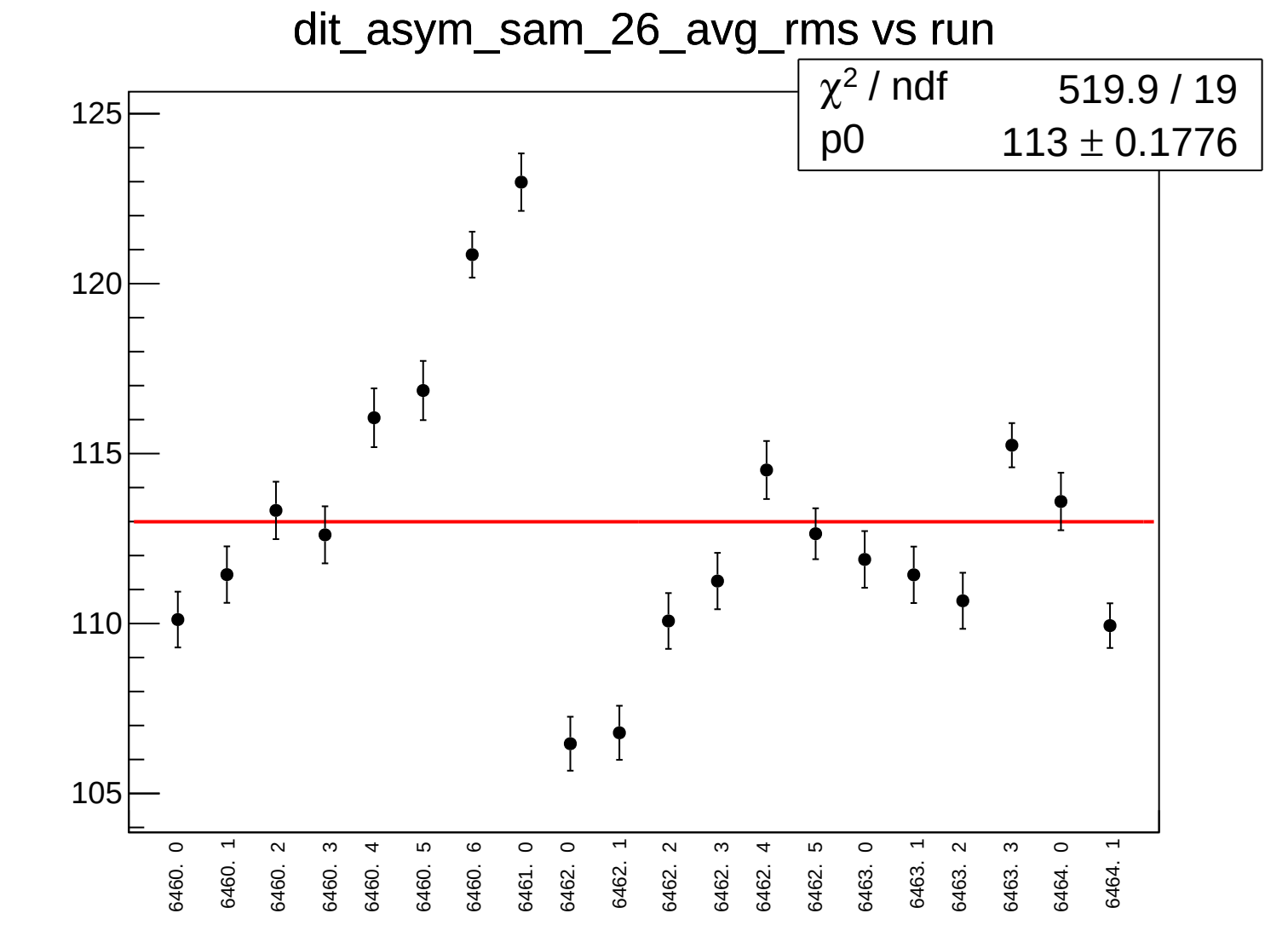

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.95 / 19
p0 −101.6 ± 1589
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 104.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

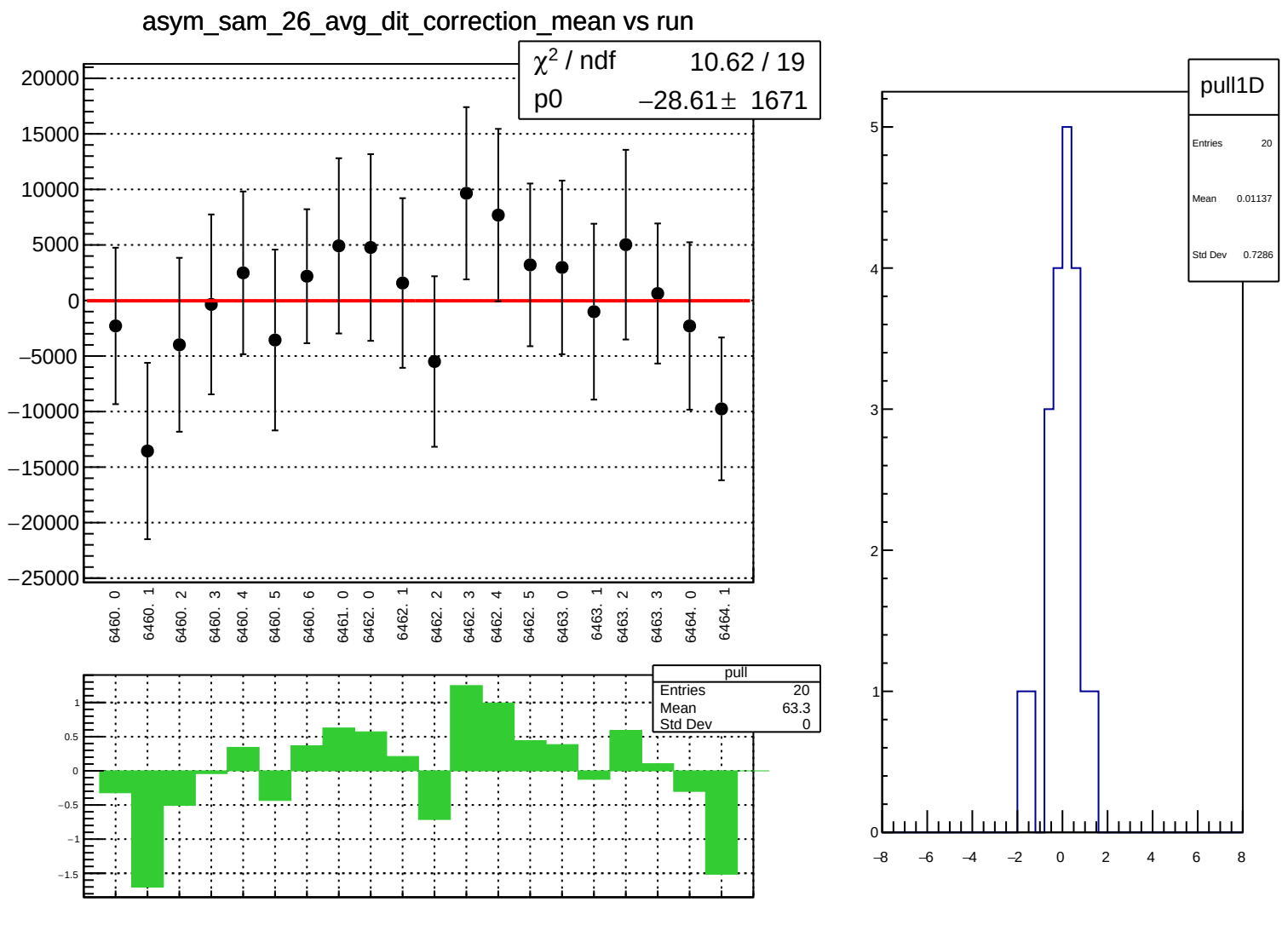

pull1D
Entries 20
Mean 0.00804
Std Dev 0.7398
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

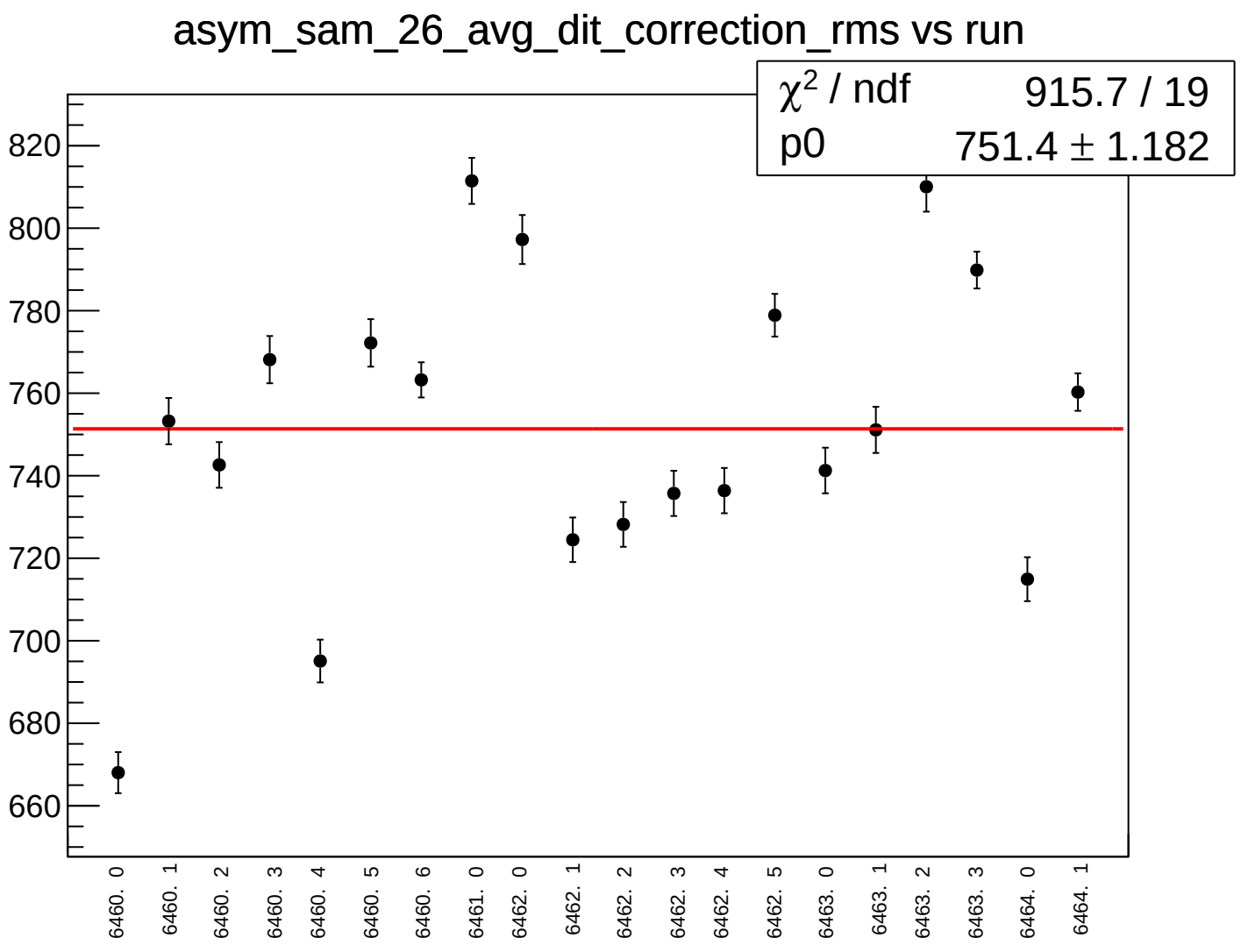

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1269 / 19
p0 714.3 ± 1.124
800
750
700
650
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

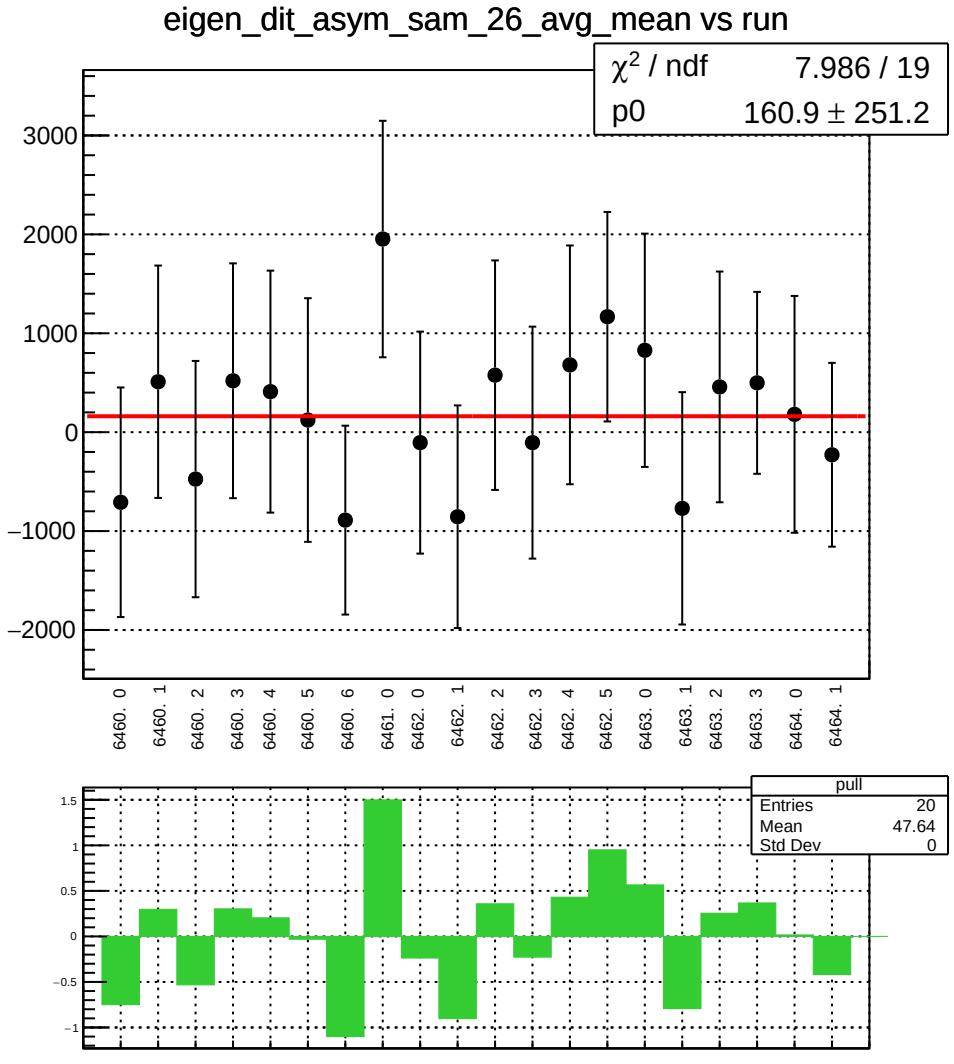

dit_asym_sam_26_avg_mean vs run
χ² / ndf 7.985 / 19
p0 160.9 ± 251.2
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 47.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1

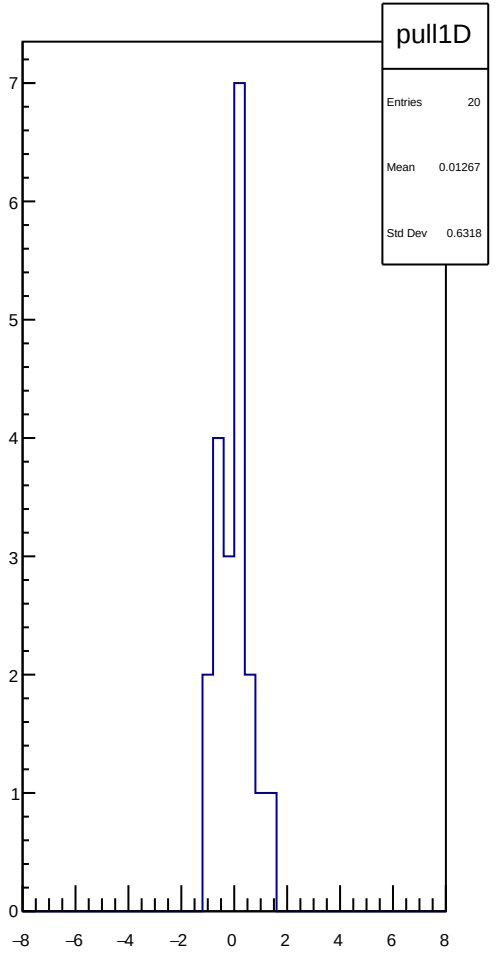

pull1D
Entries 20
Mean 0.01266
Std Dev 0.6318
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

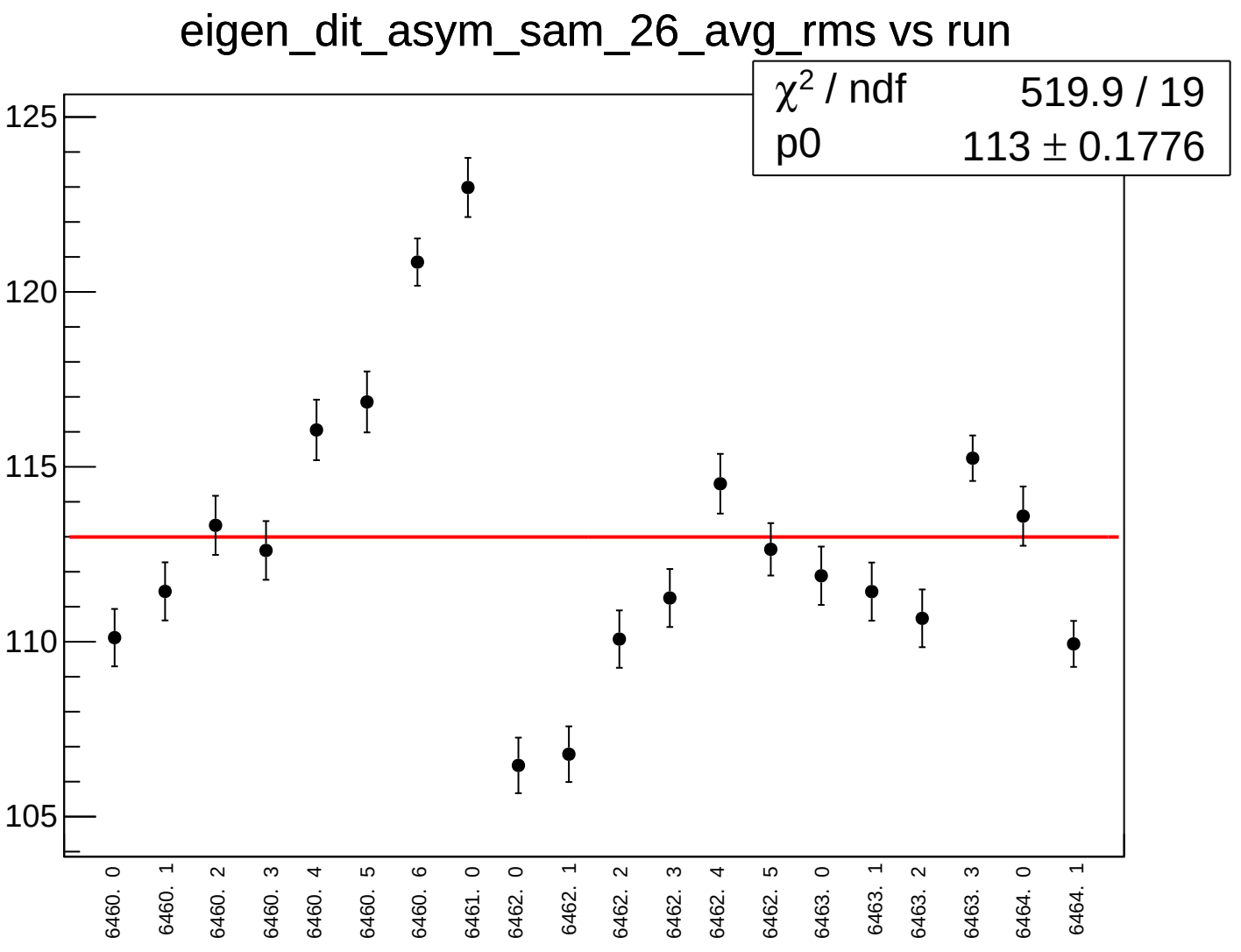

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 519.9 / 19
p0 113 ± 0.1776
125
120
115
110
105
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

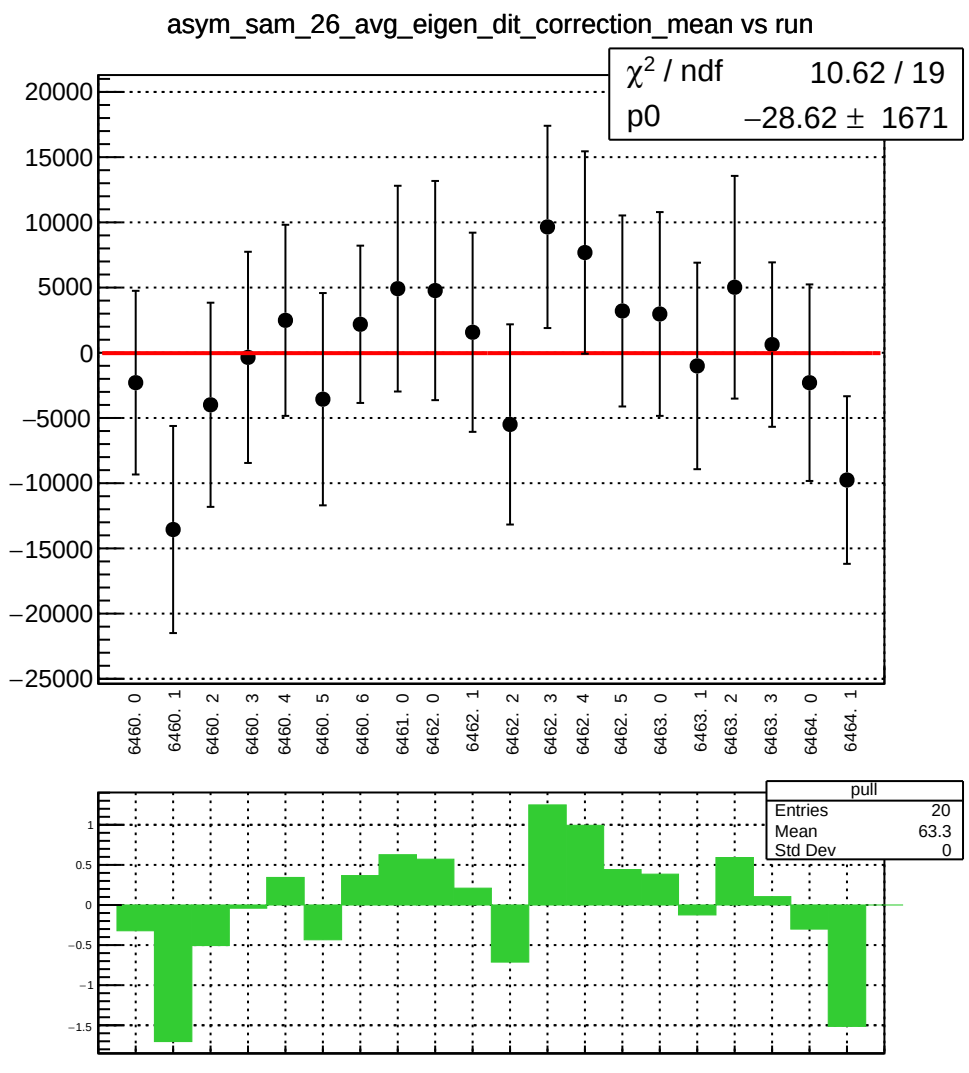

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 10.62 / 19
p0 −28.61± 1671
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 63.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01137
Std Dev 0.7286
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

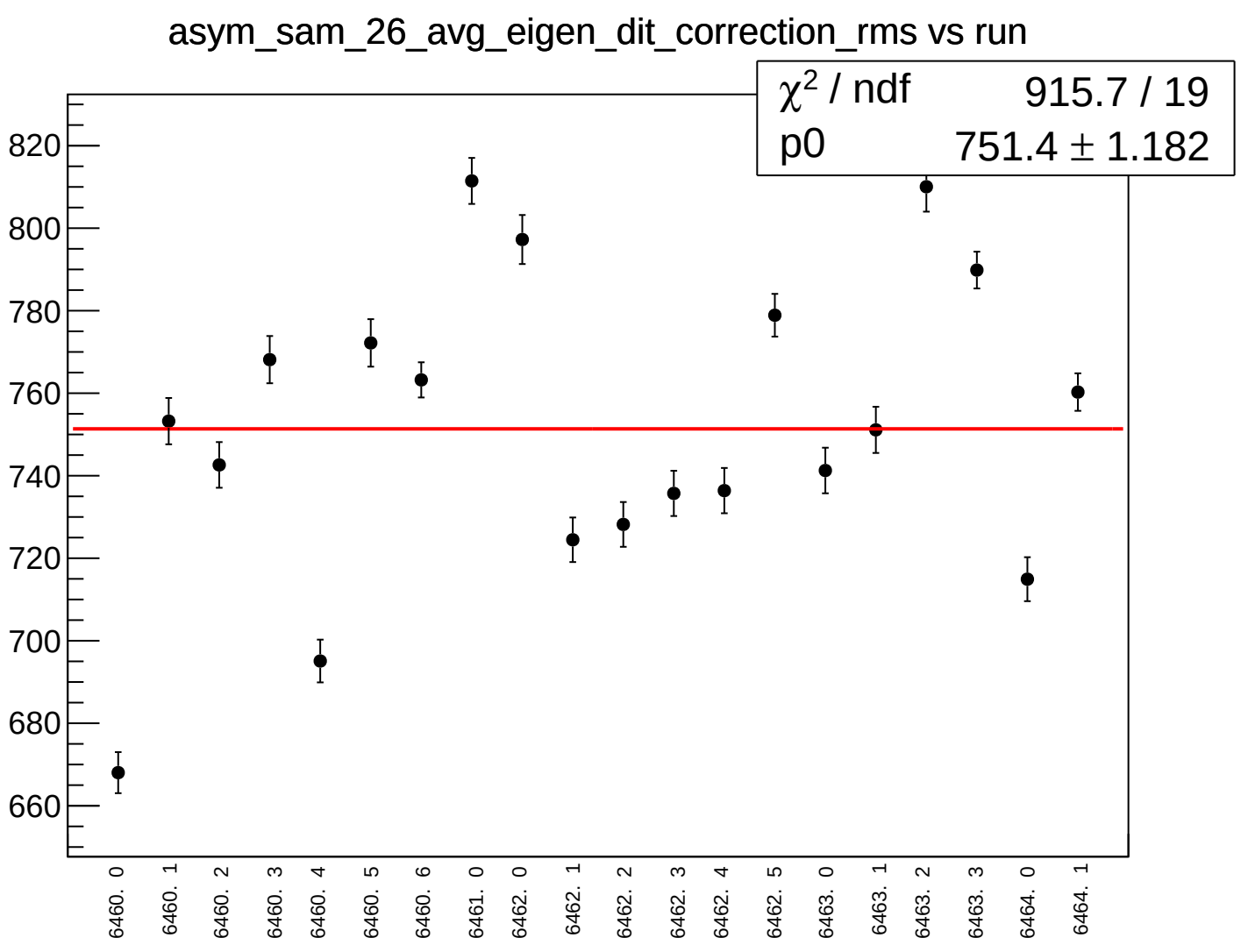

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 915.7 / 19
p0 751.4 ± 1.182
820
800
780
760
740
720
700
680
660
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

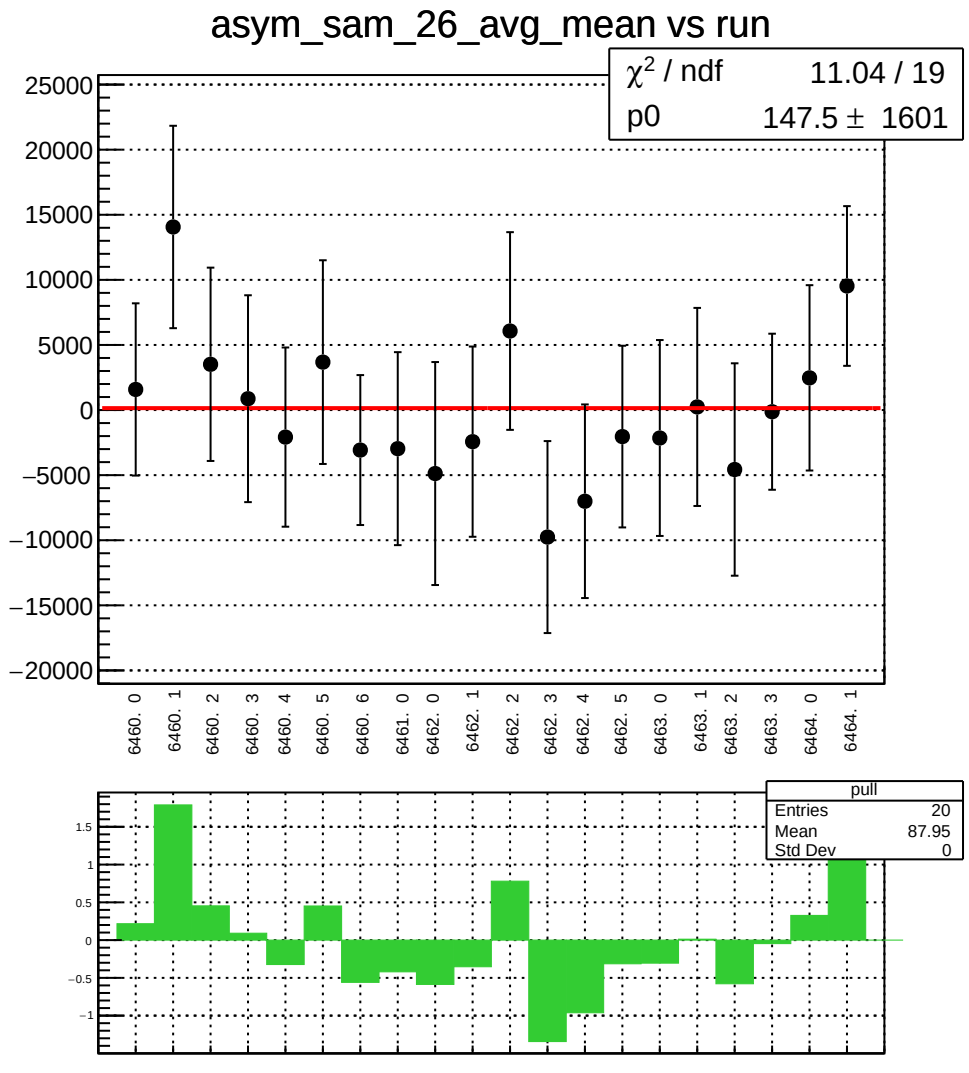

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 7.986 / 19
p0 160.9 ± 251.2
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 47.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1

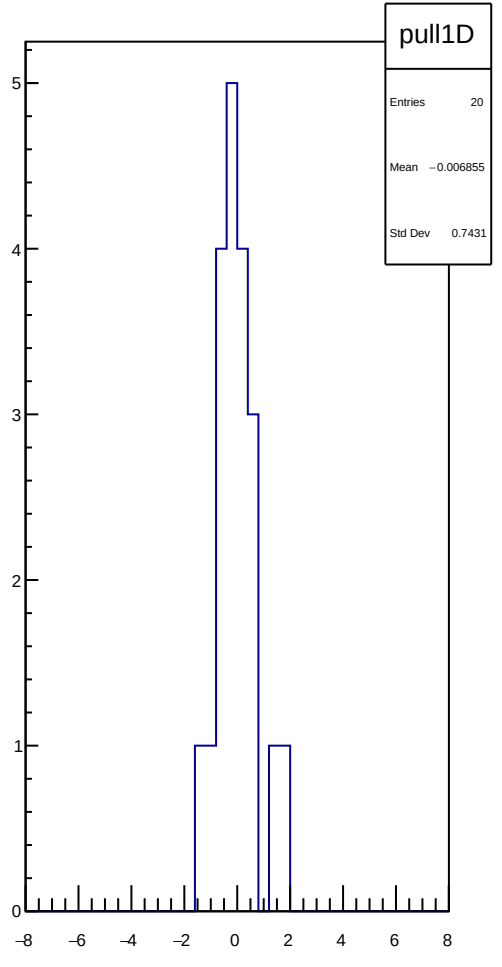

pull1D
Entries 20
Mean 0.01267
Std Dev 0.6318
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

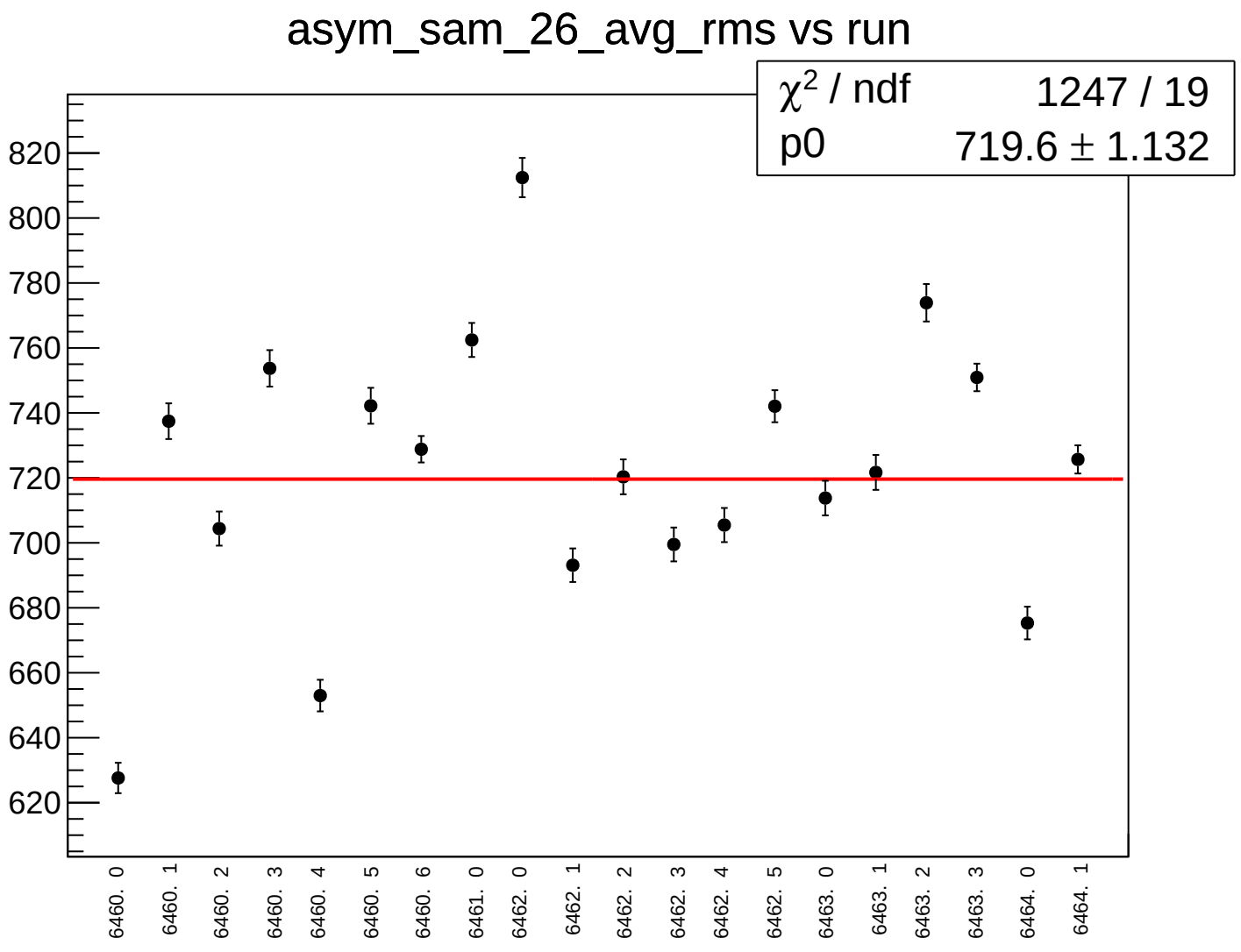

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 519.9 / 19
p0 113 ± 0.1776
125
120
115
110
105
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

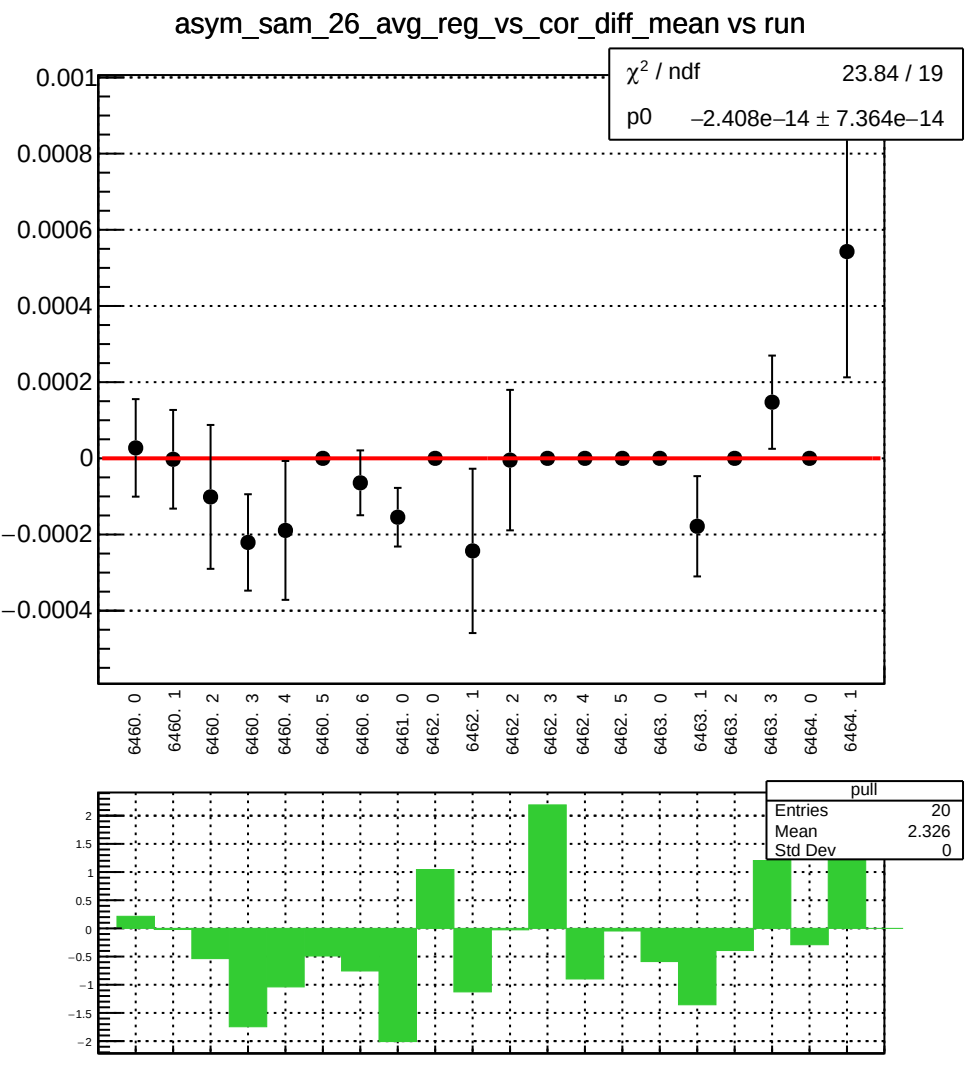

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.62 / 19
p0 −28.62 ± 1671
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 63.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01137
Std Dev 0.7286
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

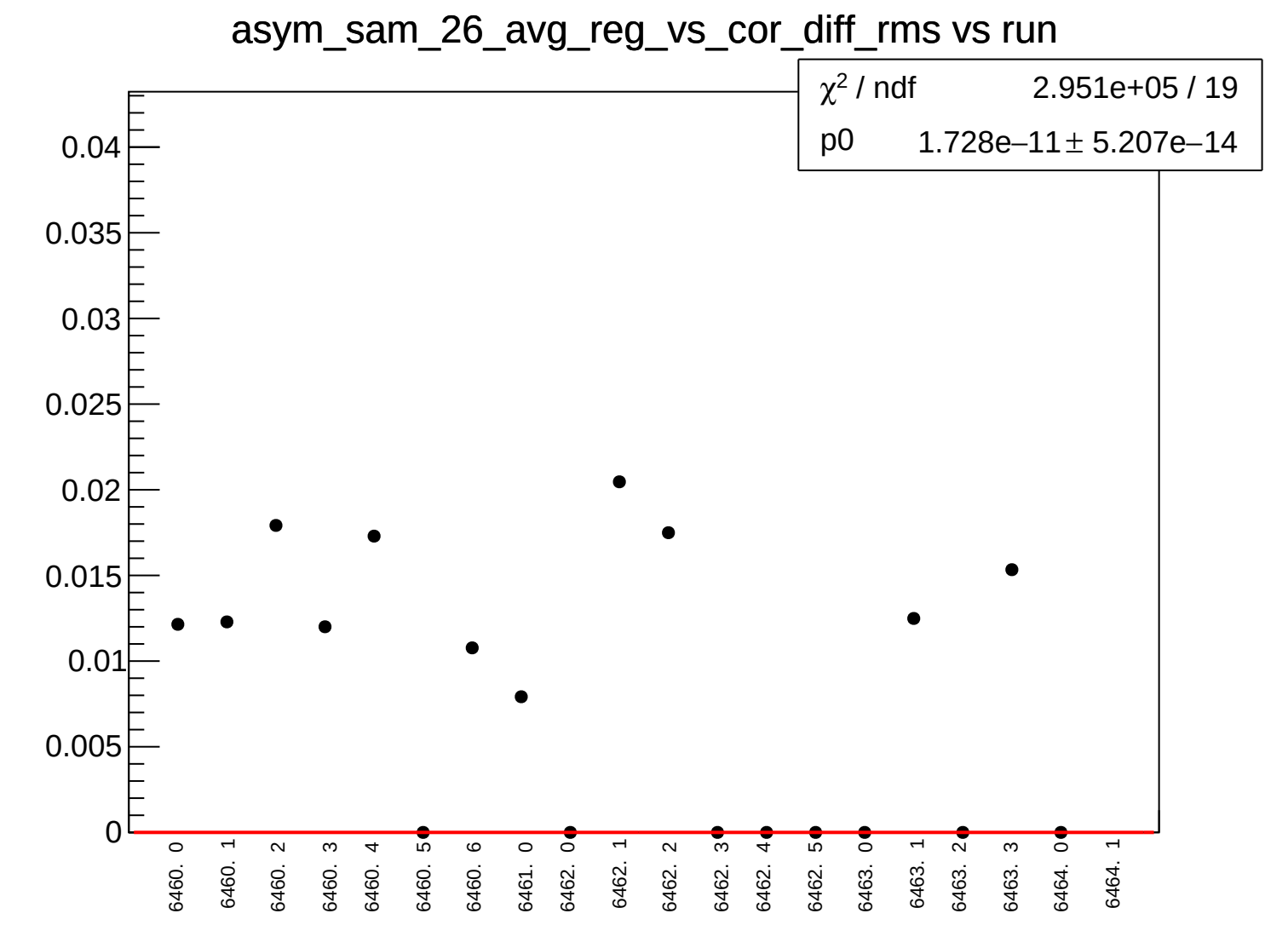

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 915.7 / 19
p0 751.4 ± 1.182
820
800
780
760
740
720
700
680
660
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

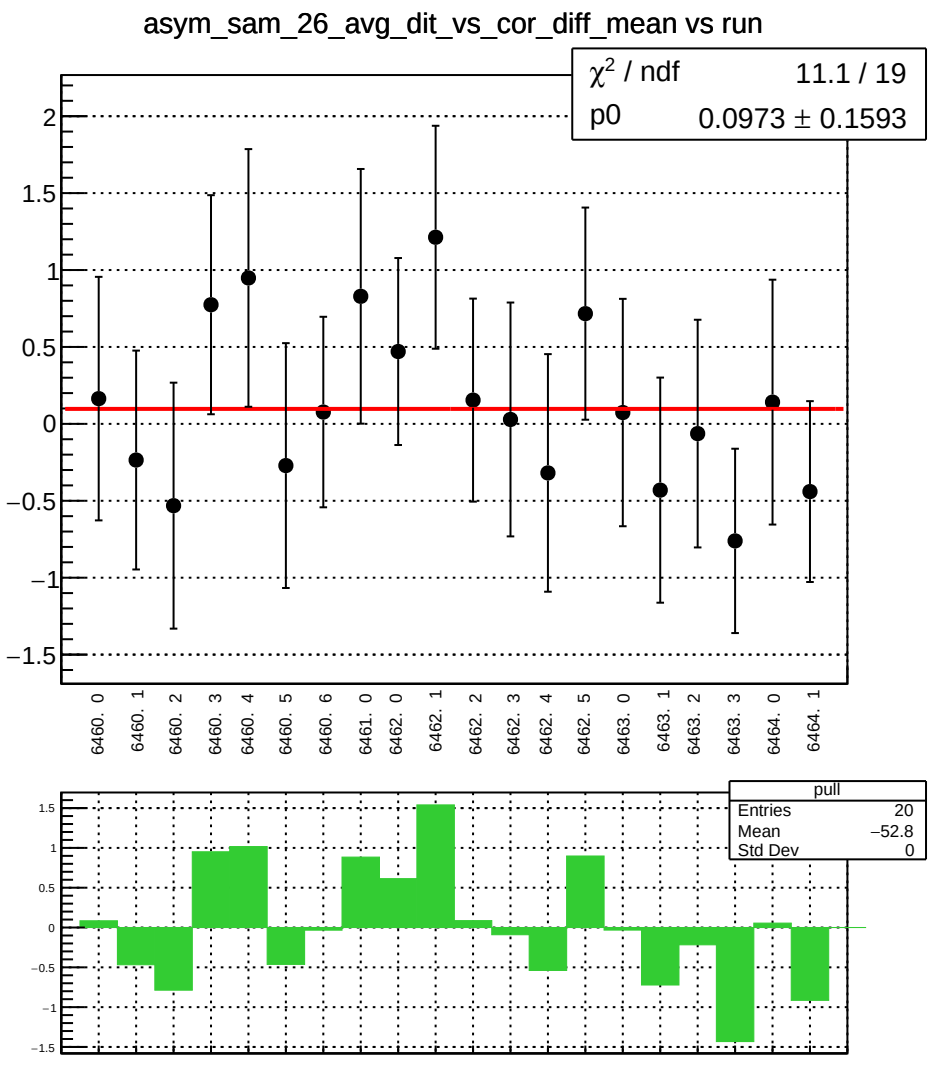

asym_sam_26_avg_mean vs run
χ² / ndf 11.04 / 19
p0 147.5 ± 1601
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 87.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1

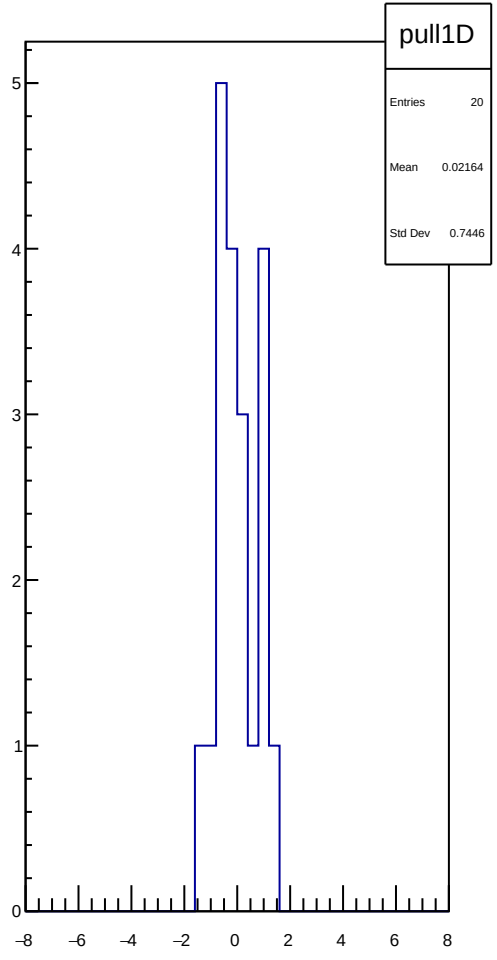

pull1D
Entries 20
Mean −0.006855
Std Dev 0.7431
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

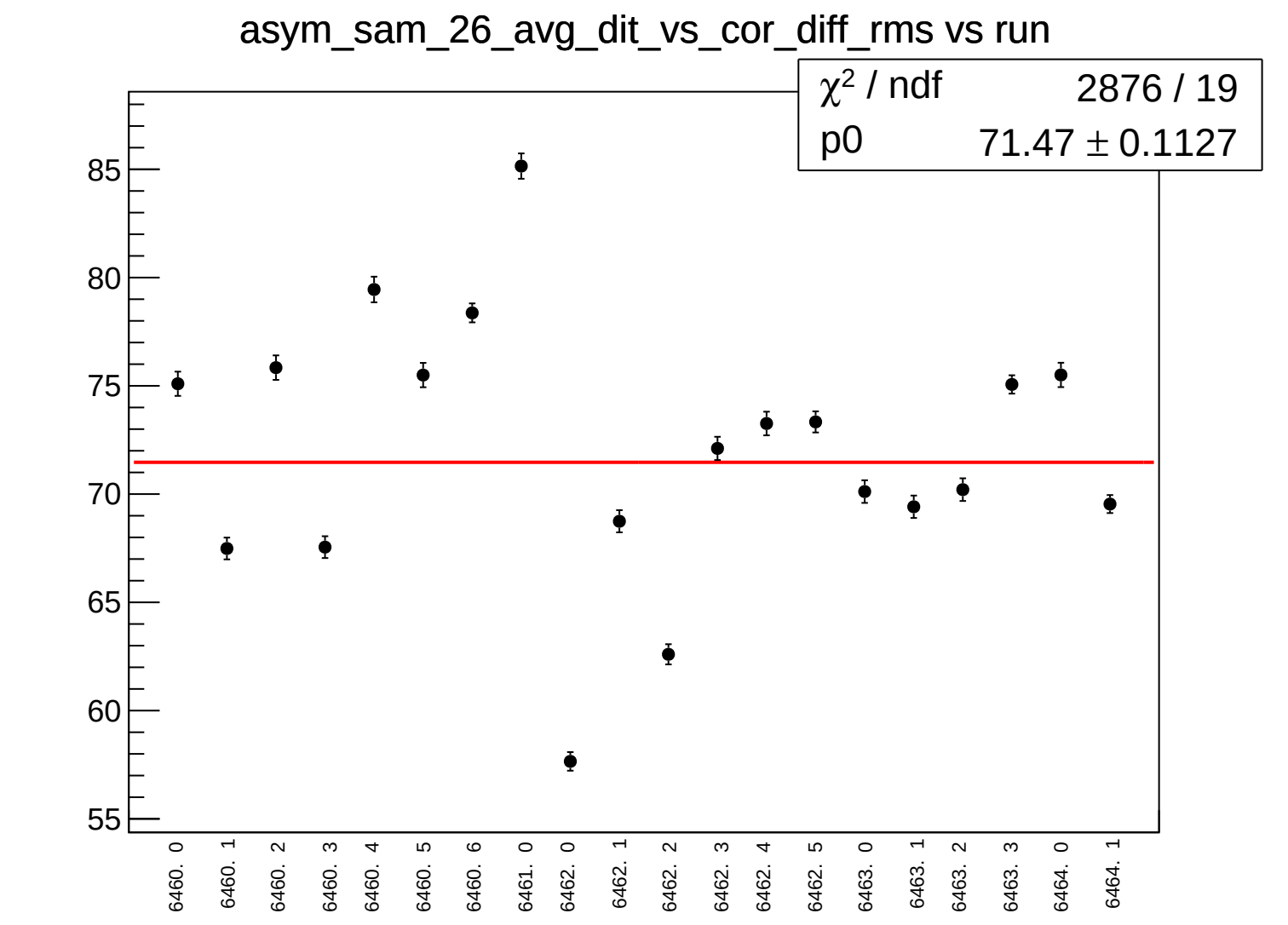

asym_sam_26_avg_rms vs run
χ² / ndf 1247 / 19
p0 719.6 ± 1.132
820
800
780
760
740
720
700
680
660
640
620
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

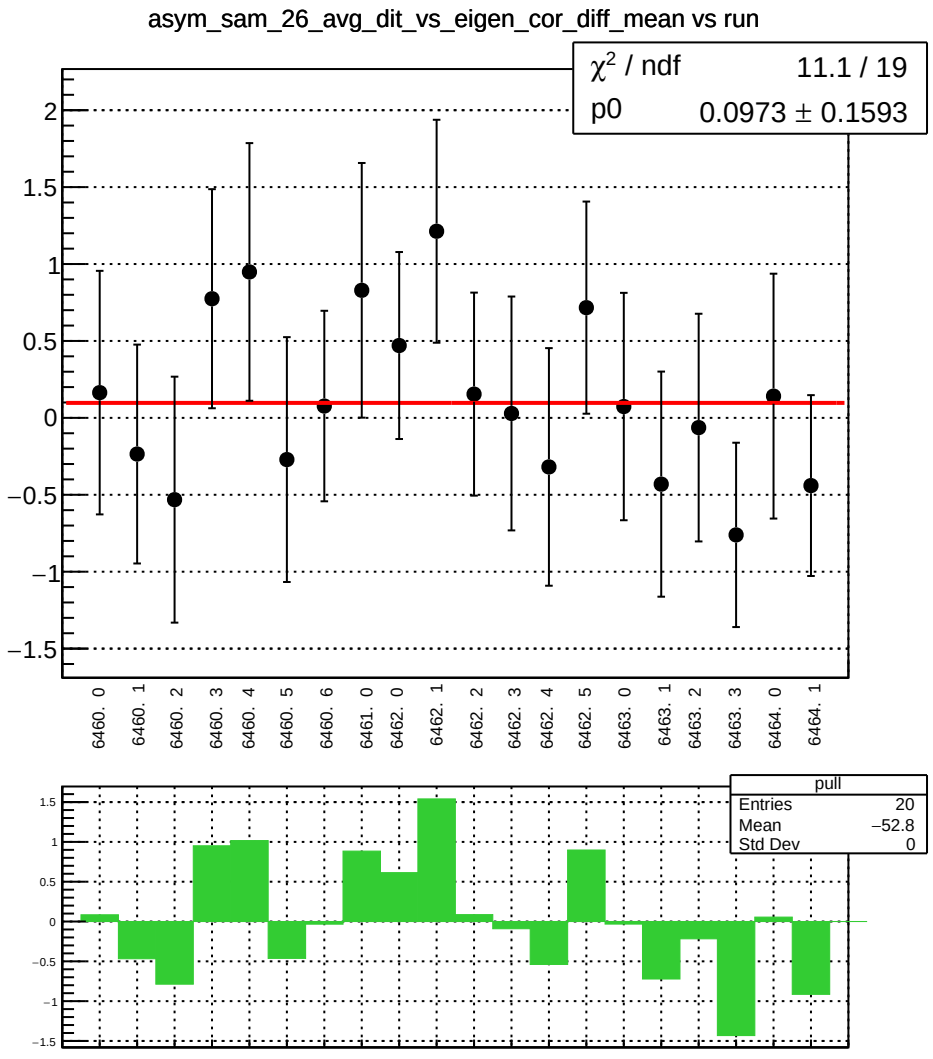

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.84 / 19
p0 −2.408e−14 ± 7.364e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.326
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.2506
Std Dev 1.063
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

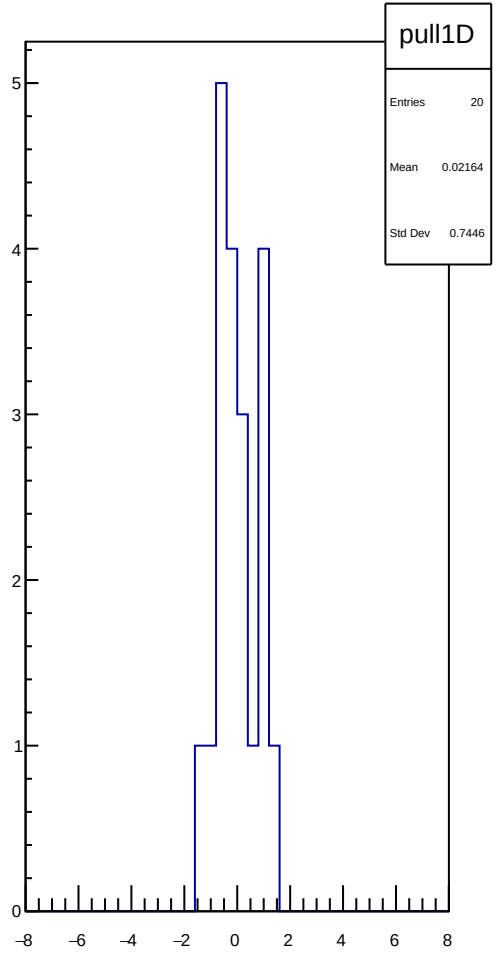

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.951e+05 / 19
p0 1.728e−11 ± 5.207e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

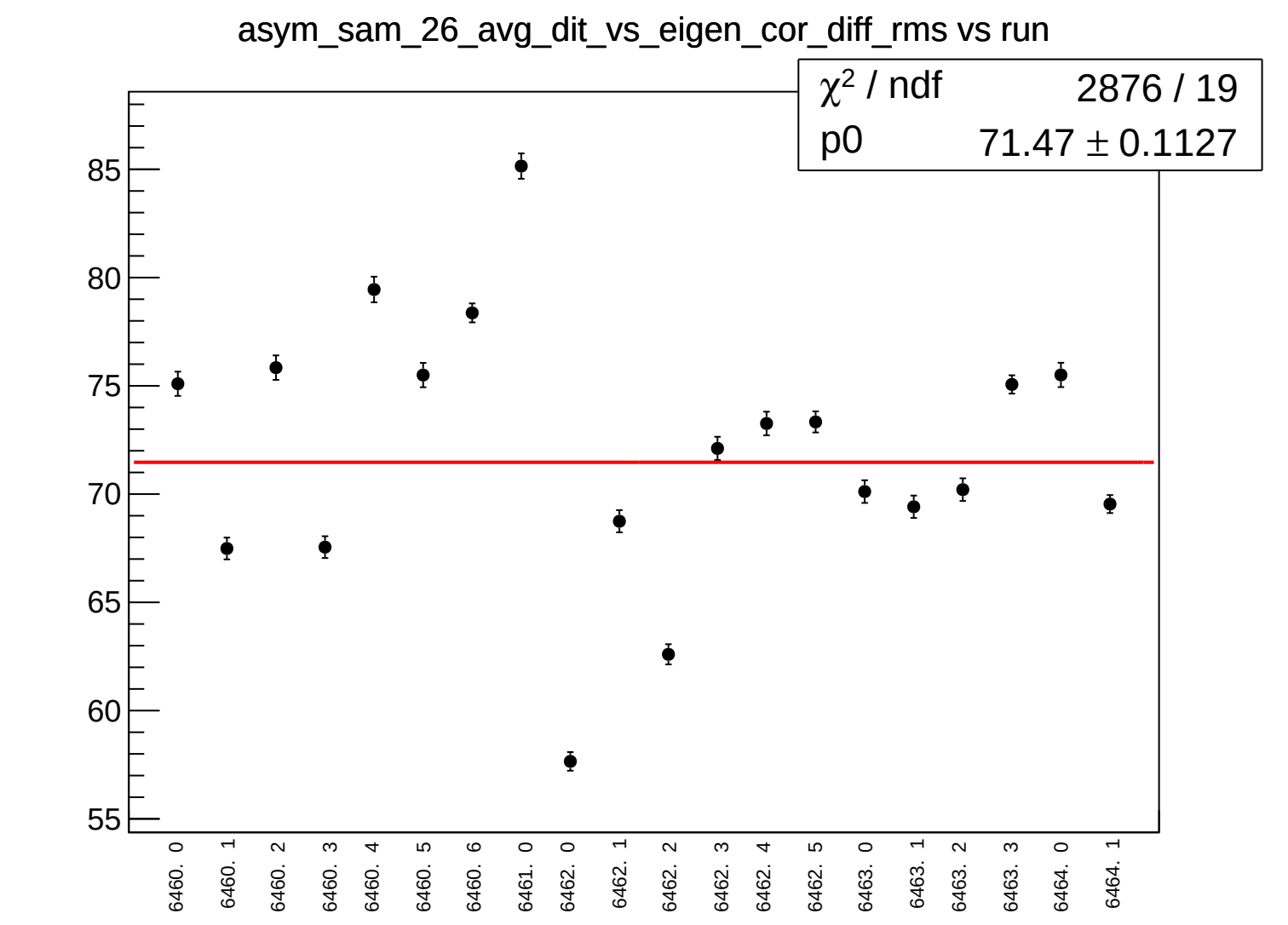

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 11.1 / 19
p0 0.0973 ± 0.1593
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

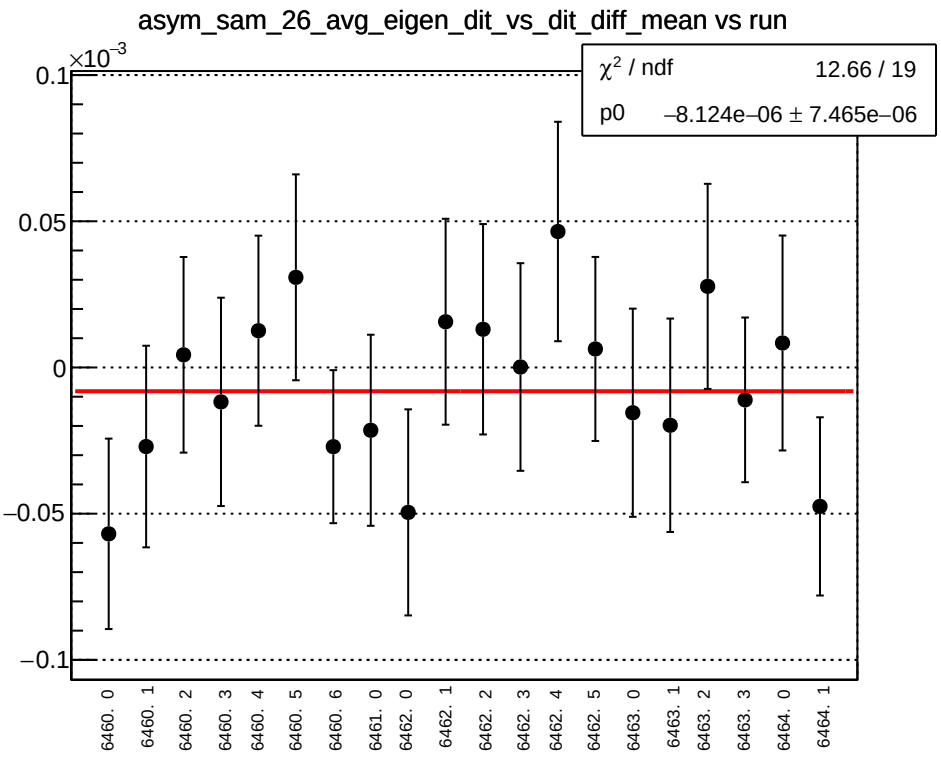

pull1D
Entries 20
Mean 0.02164
Std Dev 0.7446
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

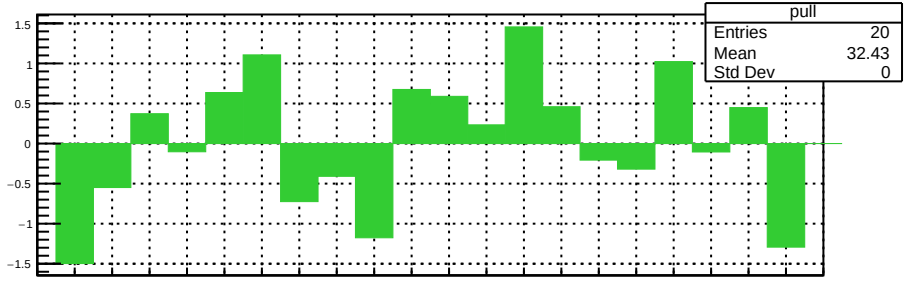

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2876 / 19
p0 71.47 ± 0.1127
85
80
75
70
65
60
55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

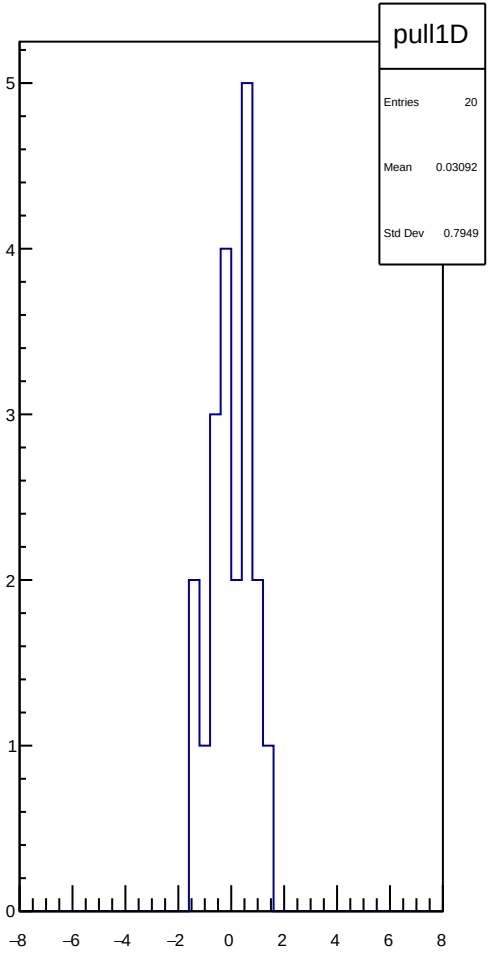

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.1 / 19
p0 0.0973 ± 0.1593
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

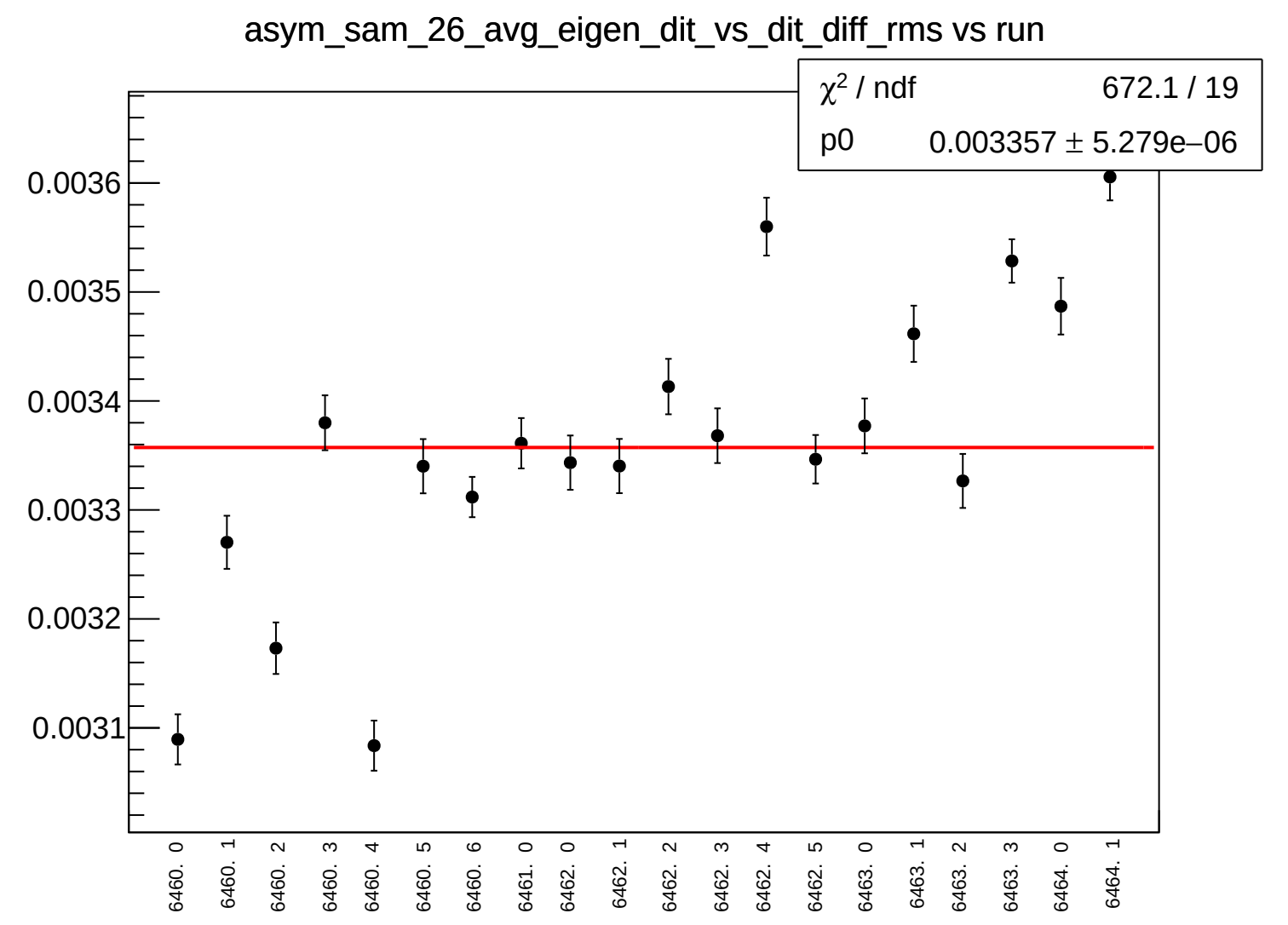

pull1D
Entries 20
Mean 0.02164
Std Dev 0.7446
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

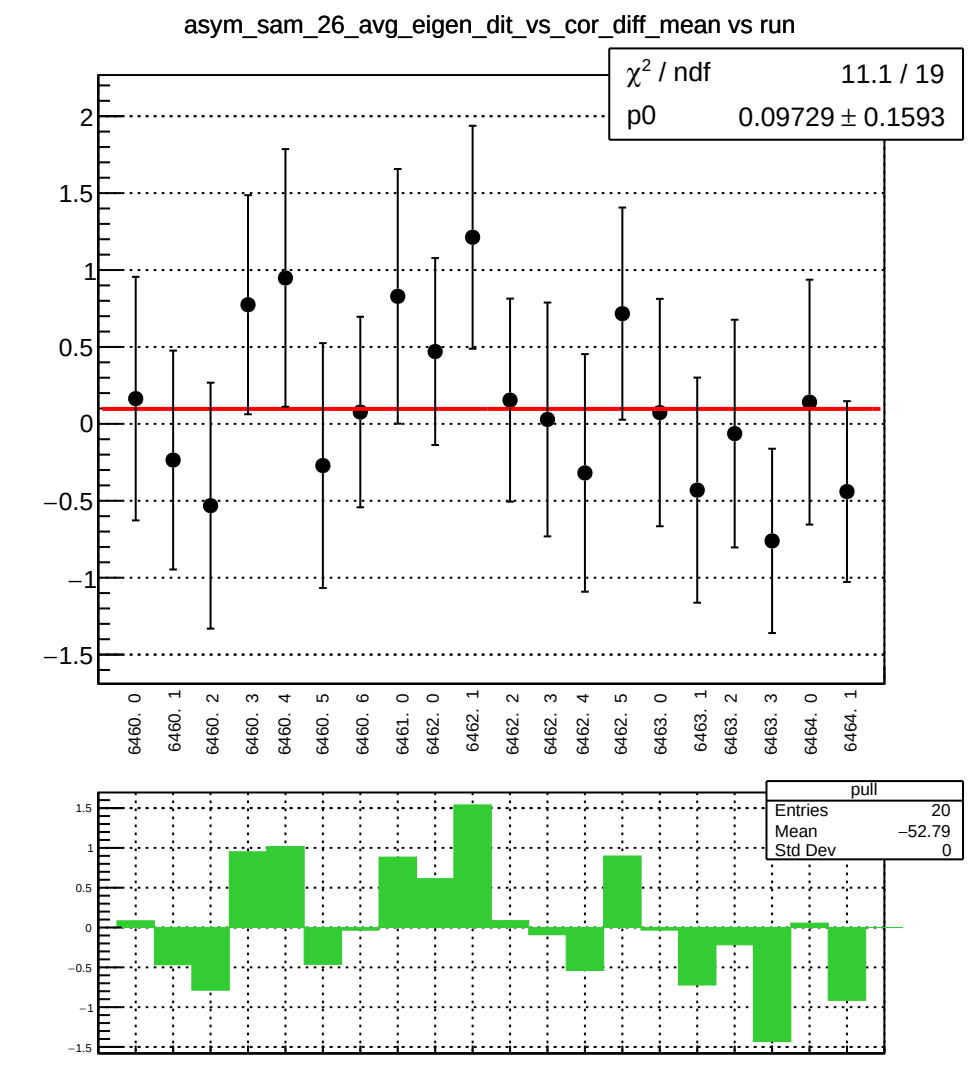

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2876 / 19
p0 71.47 ± 0.1127
85
80
75
70
65
60
55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

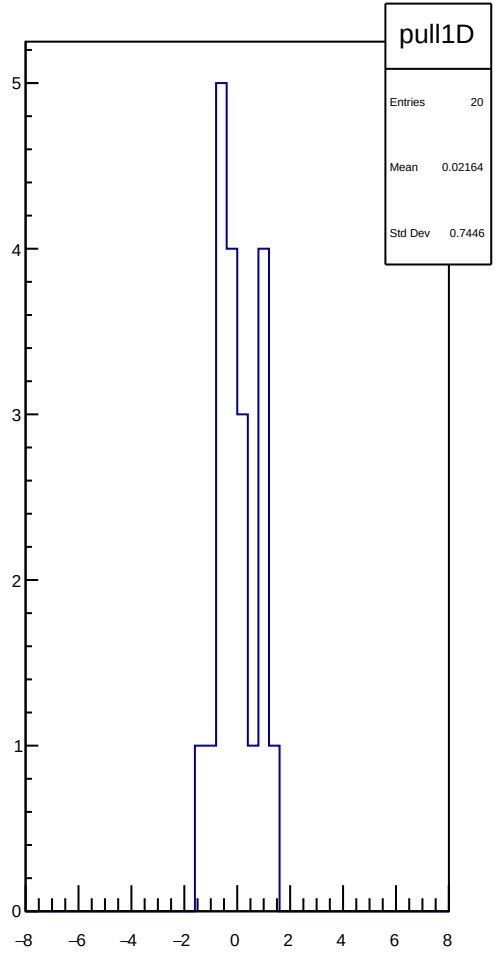

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10^-3
χ² / ndf 12.66 / 19
p0 −8.124e−06 ± 7.465e−06
0.1
0.05
0
−0.05
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

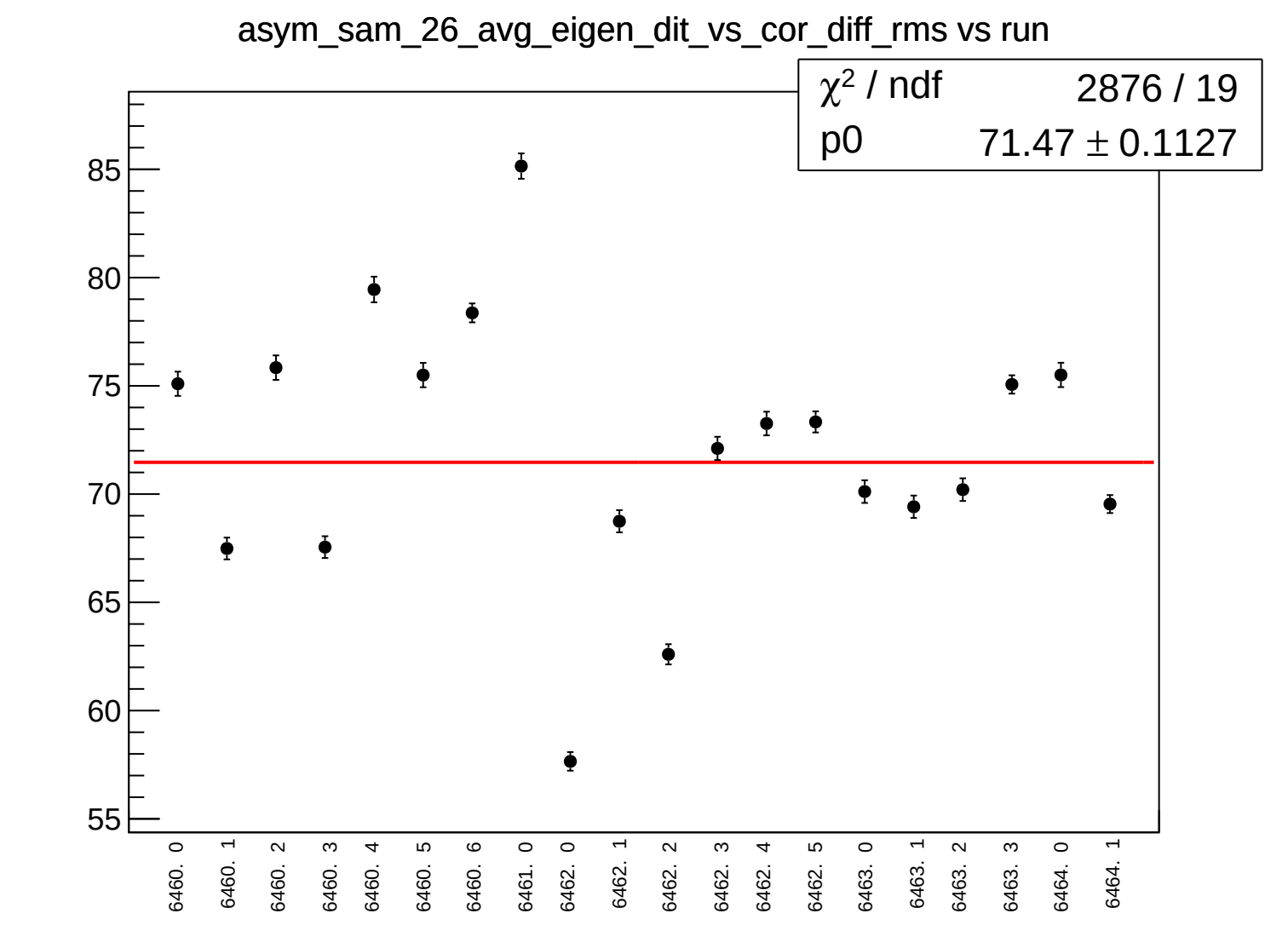

pull
Entries 20
Mean 32.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

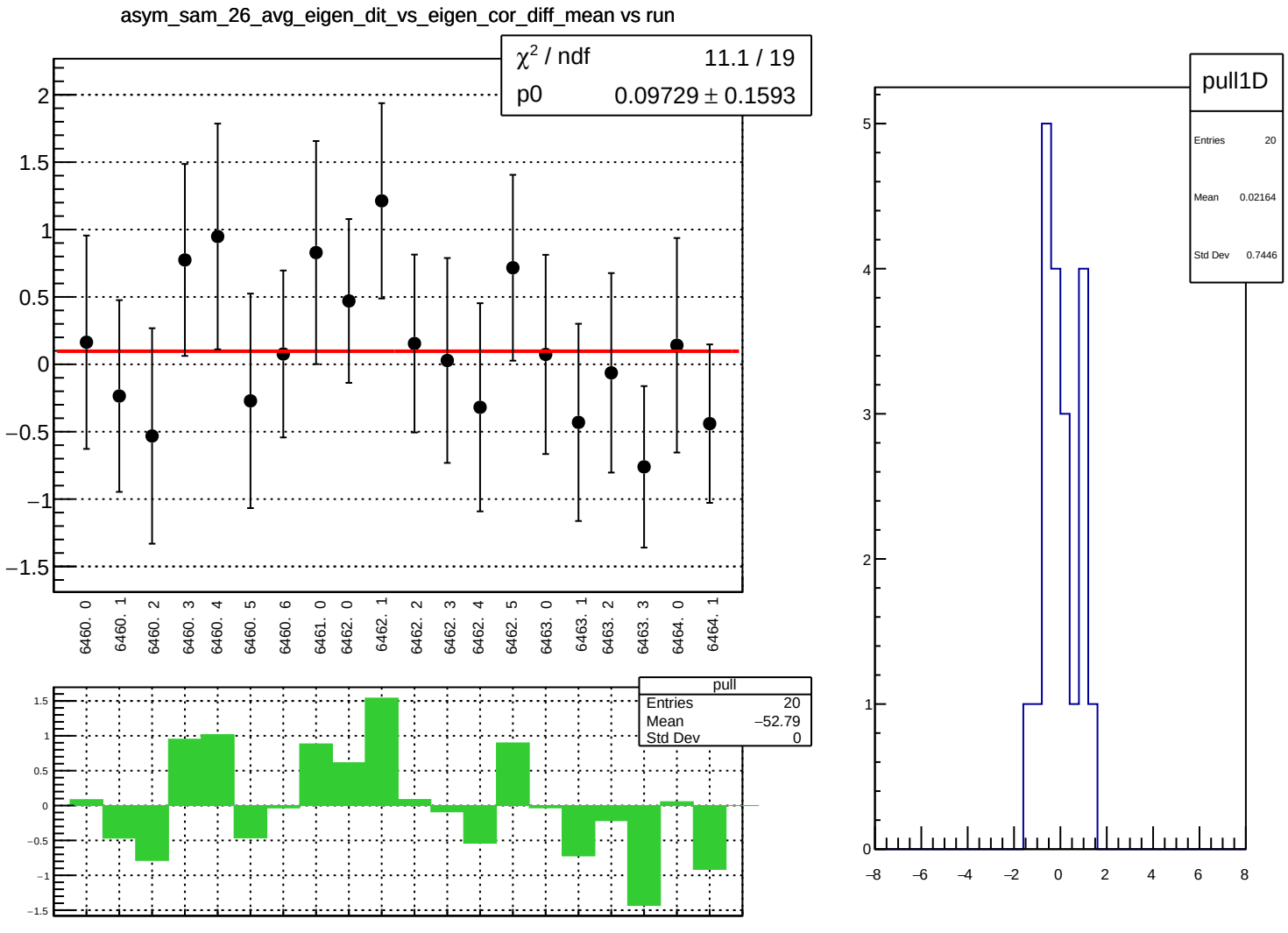

pull1D
Entries 20
Mean 0.03092
Std Dev 0.7949
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

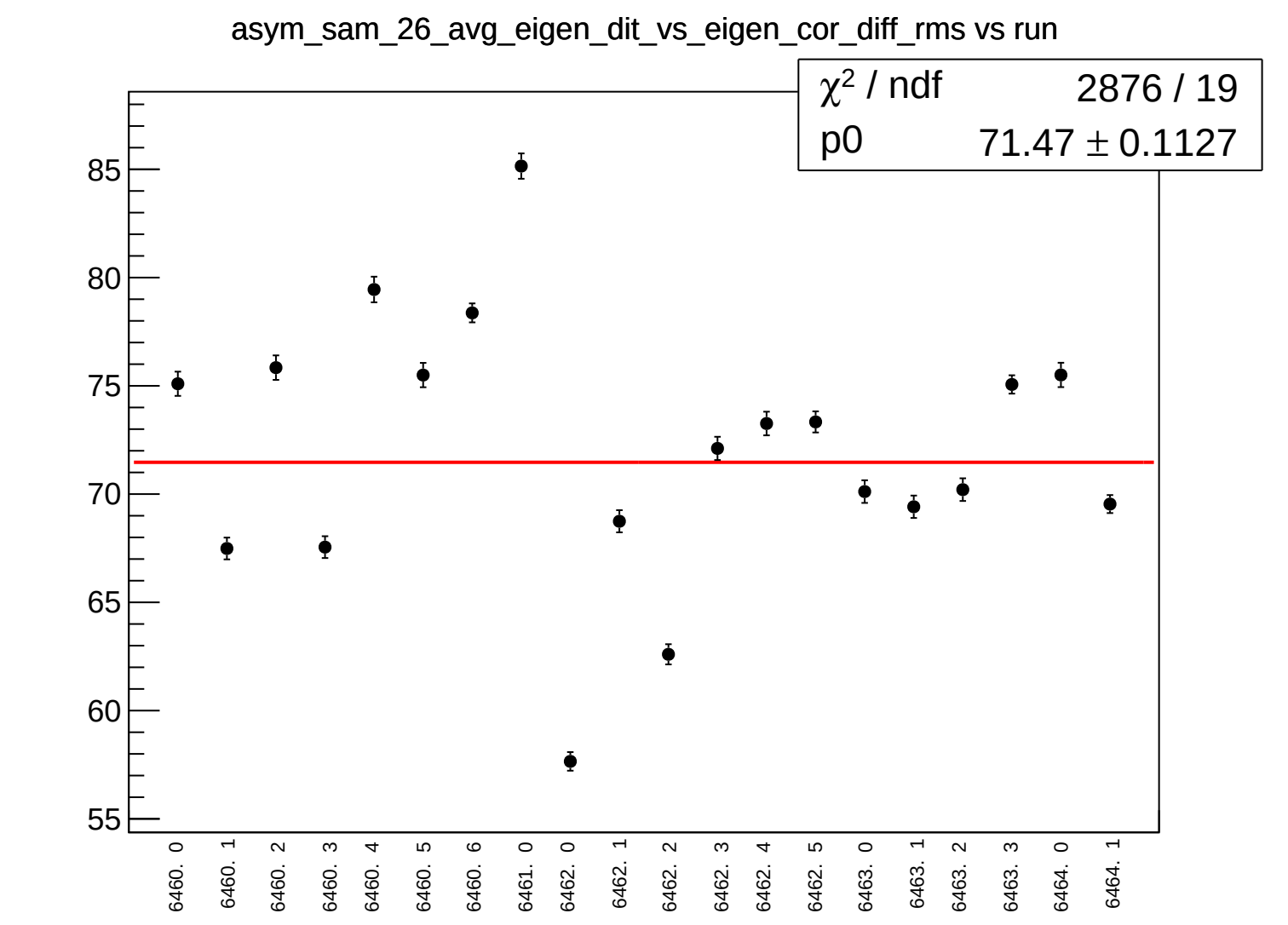

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 672.1 / 19
p0 0.003357 ± 5.279e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

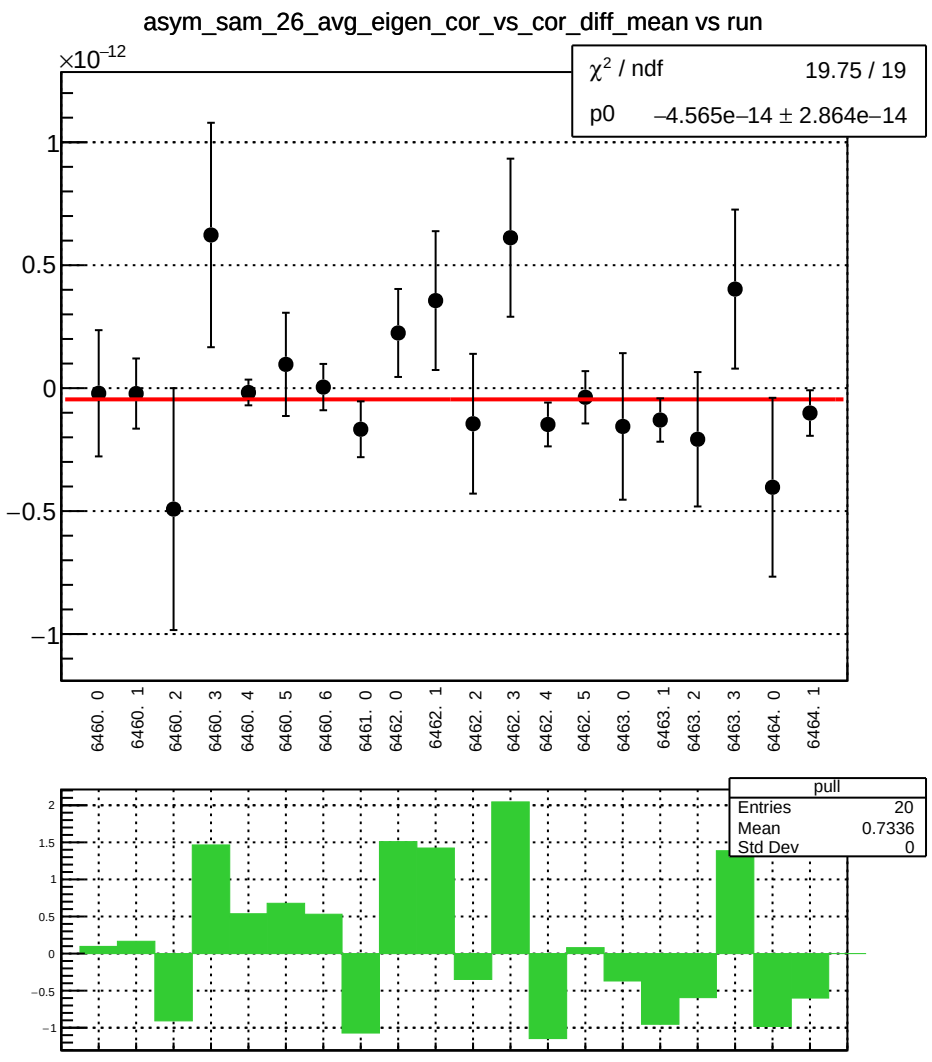

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 11.1 / 19
p0 0.09729 ± 0.1593
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

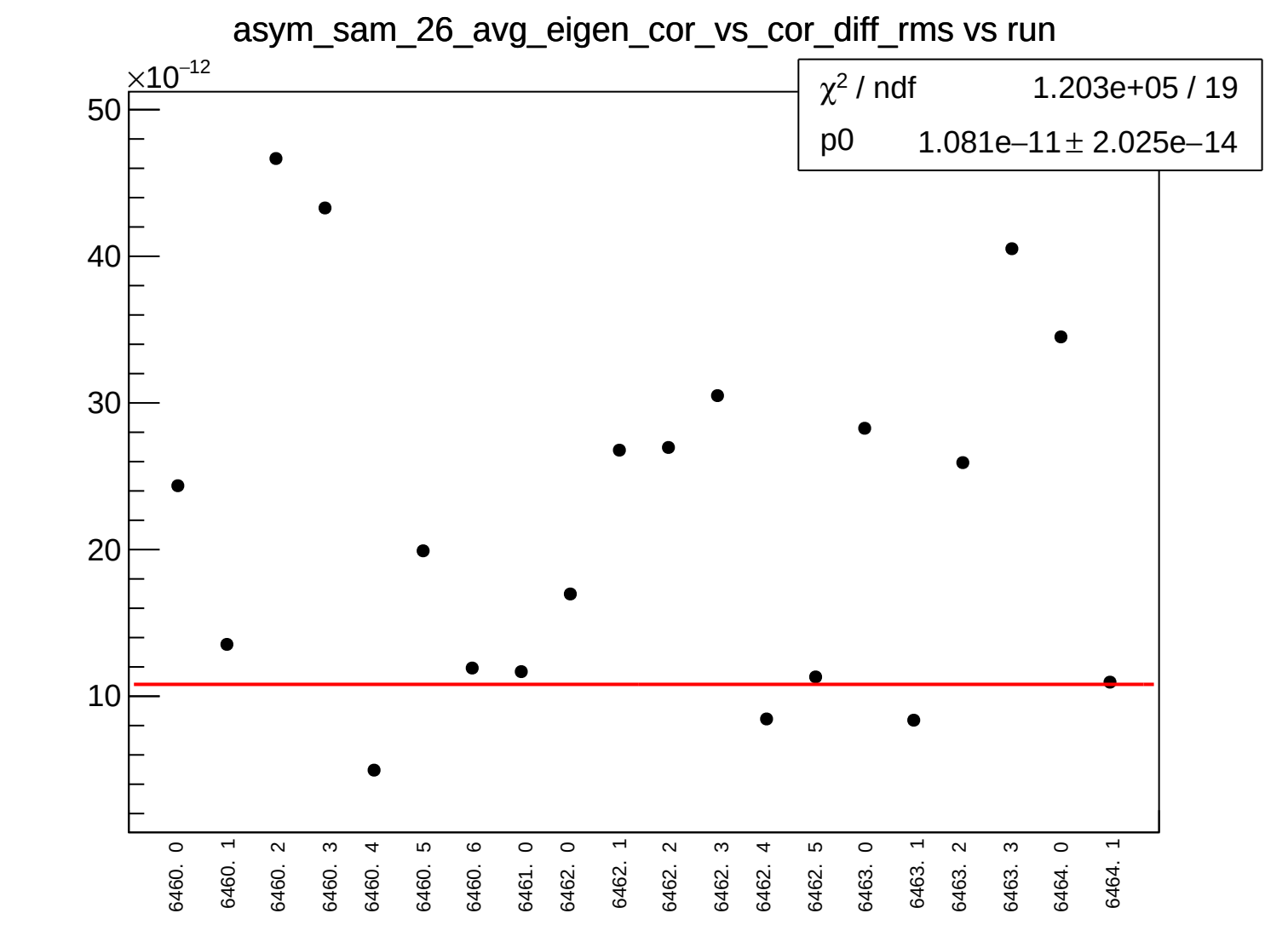

pull1D
Entries 20
Mean 0.02164
Std Dev 0.7446
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

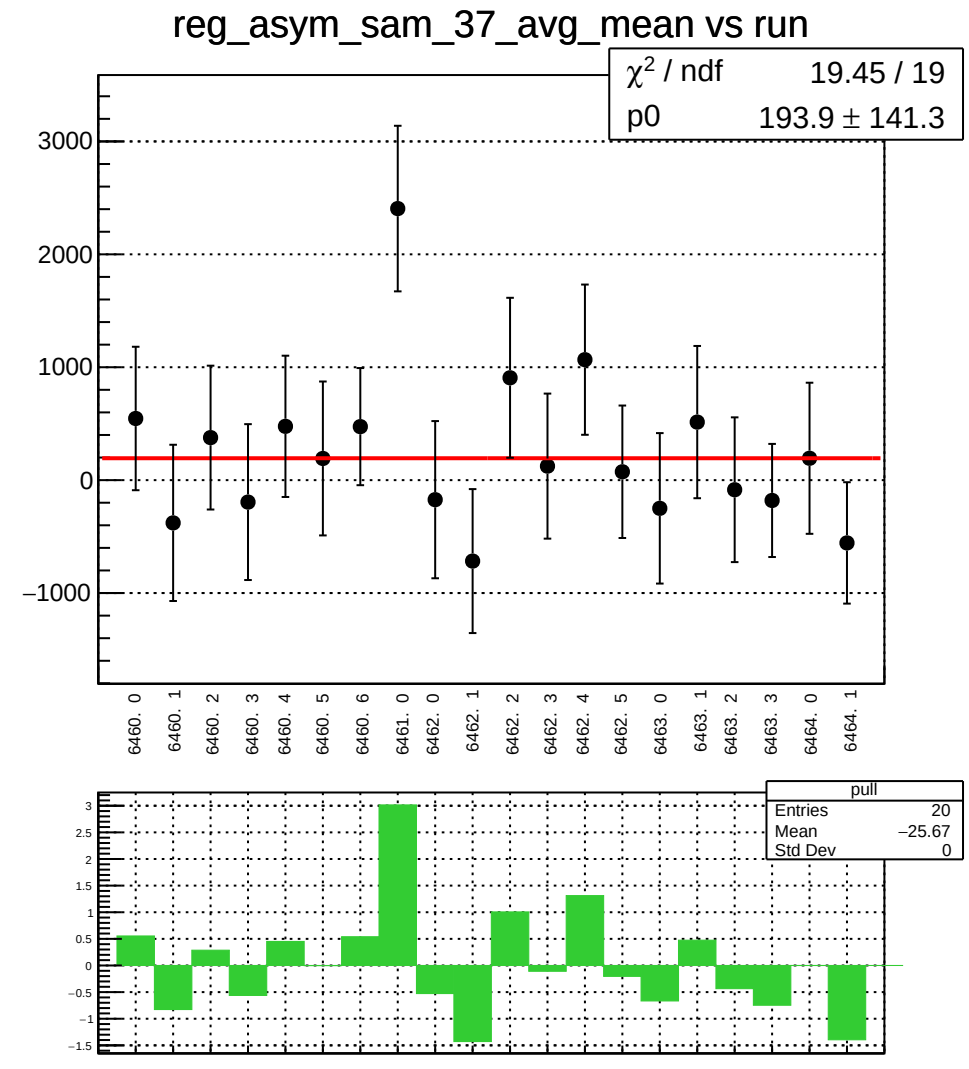

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2876 / 19
p0 71.47 ± 0.1127
85
80
75
70
65
60
55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

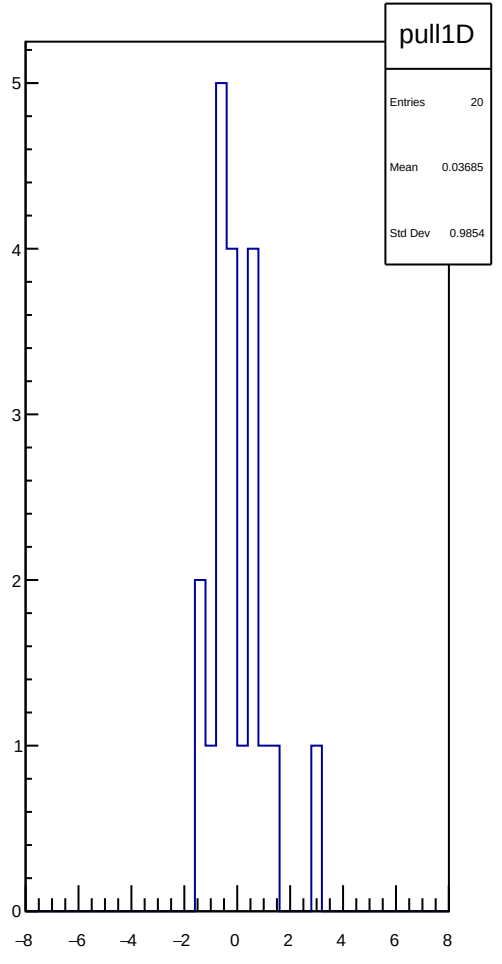

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.1 / 19
p0 0.09729 ± 0.1593
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.79
Std Dev 0
pull1D
Entries 20
Mean 0.02164
Std Dev 0.7446

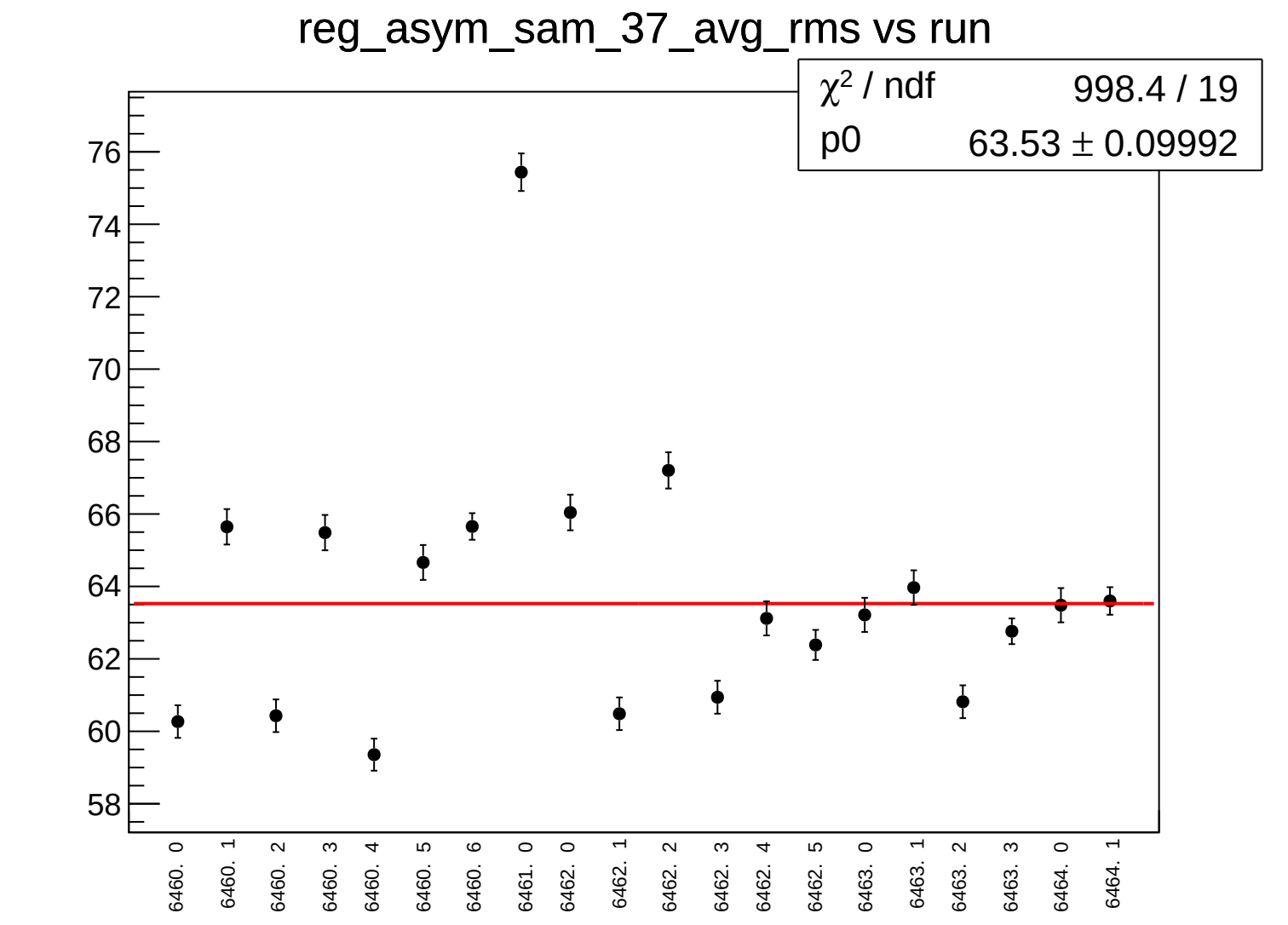

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2876 / 19
p0 71.47 ± 0.1127
85
80
75
70
65
60
55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

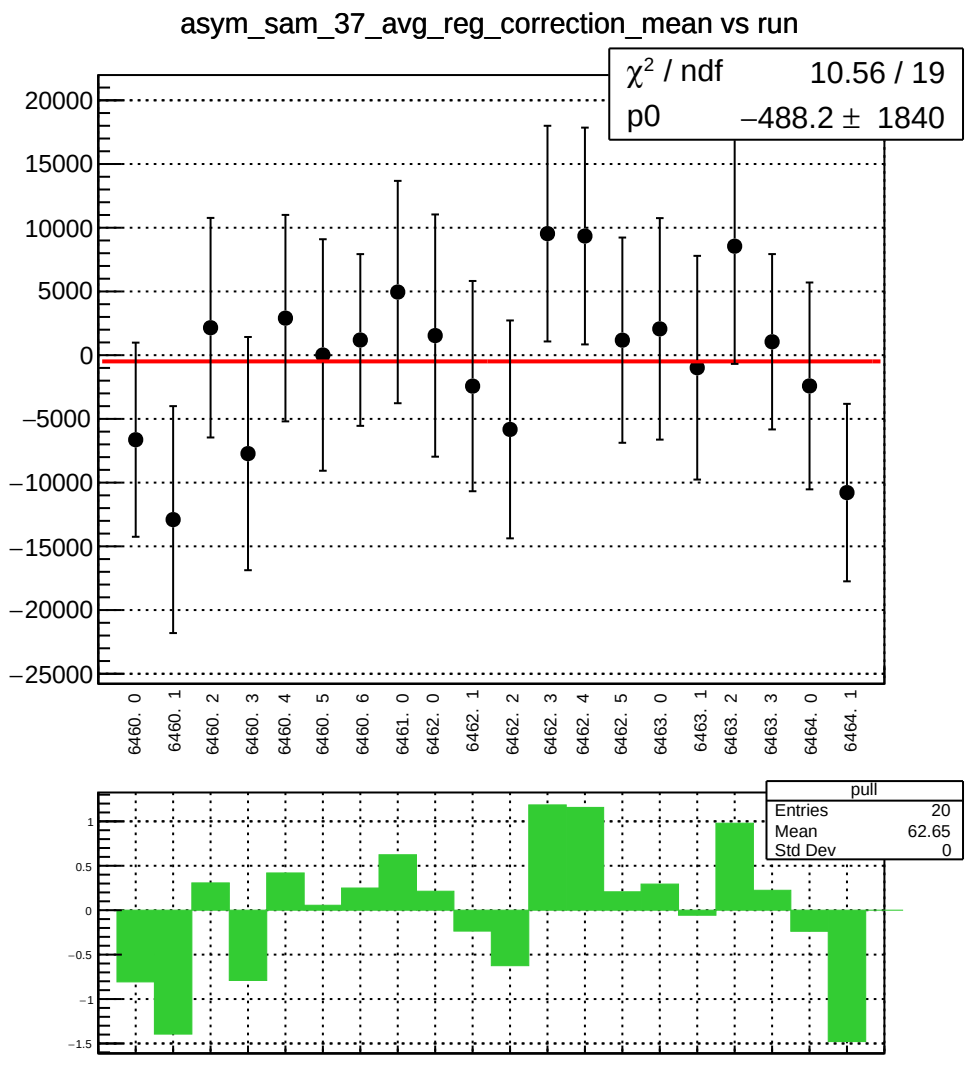

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.75 / 19
p0 −4.565e−14 ± 2.864e−14
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 0.7336
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.1473
Std Dev 0.9829
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

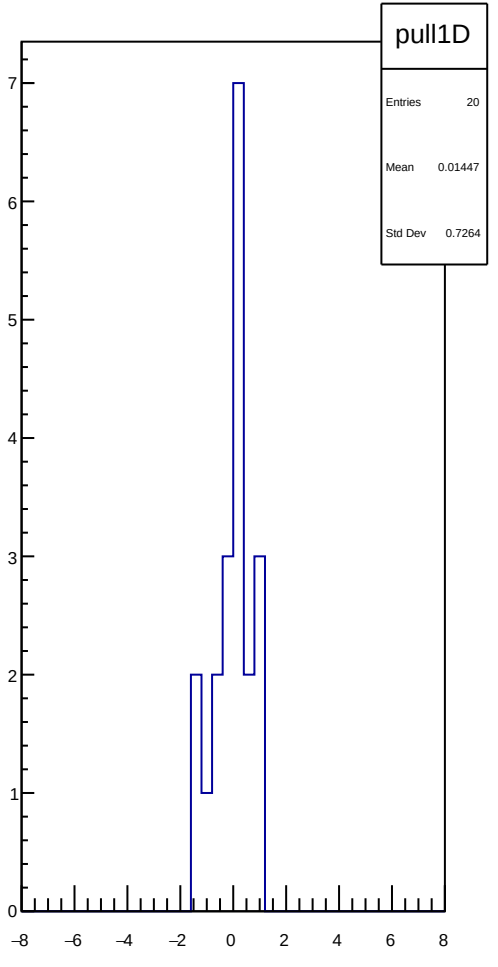

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
50
40
30
20
10
χ² / ndf 1.203e+05 / 19
p0 1.081e−11 ± 2.025e−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

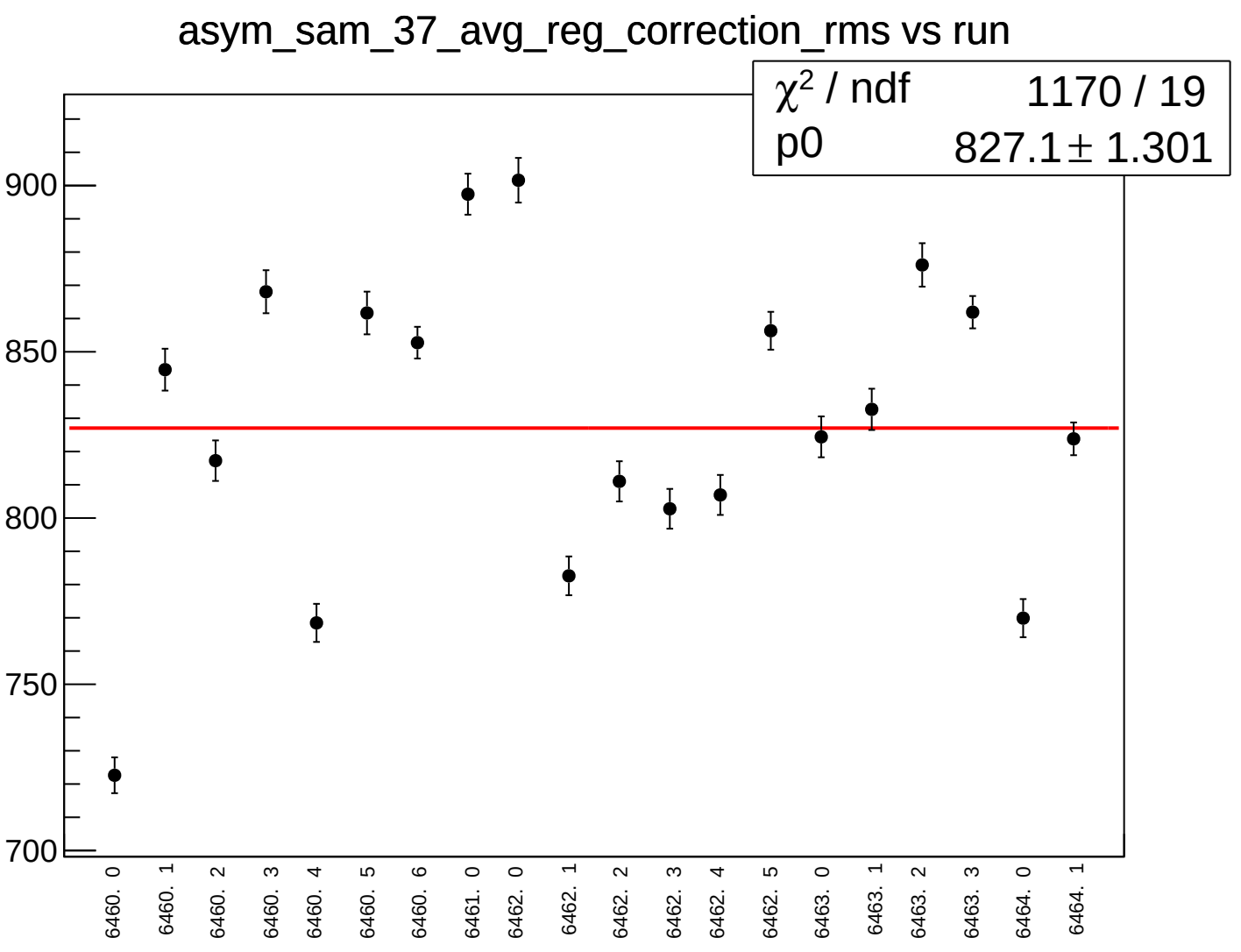

reg_asym_sam_37_avg_mean vs run
χ² / ndf 19.45 / 19
p0 193.9 ± 141.3
3000
2000
1000
0
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −25.67
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

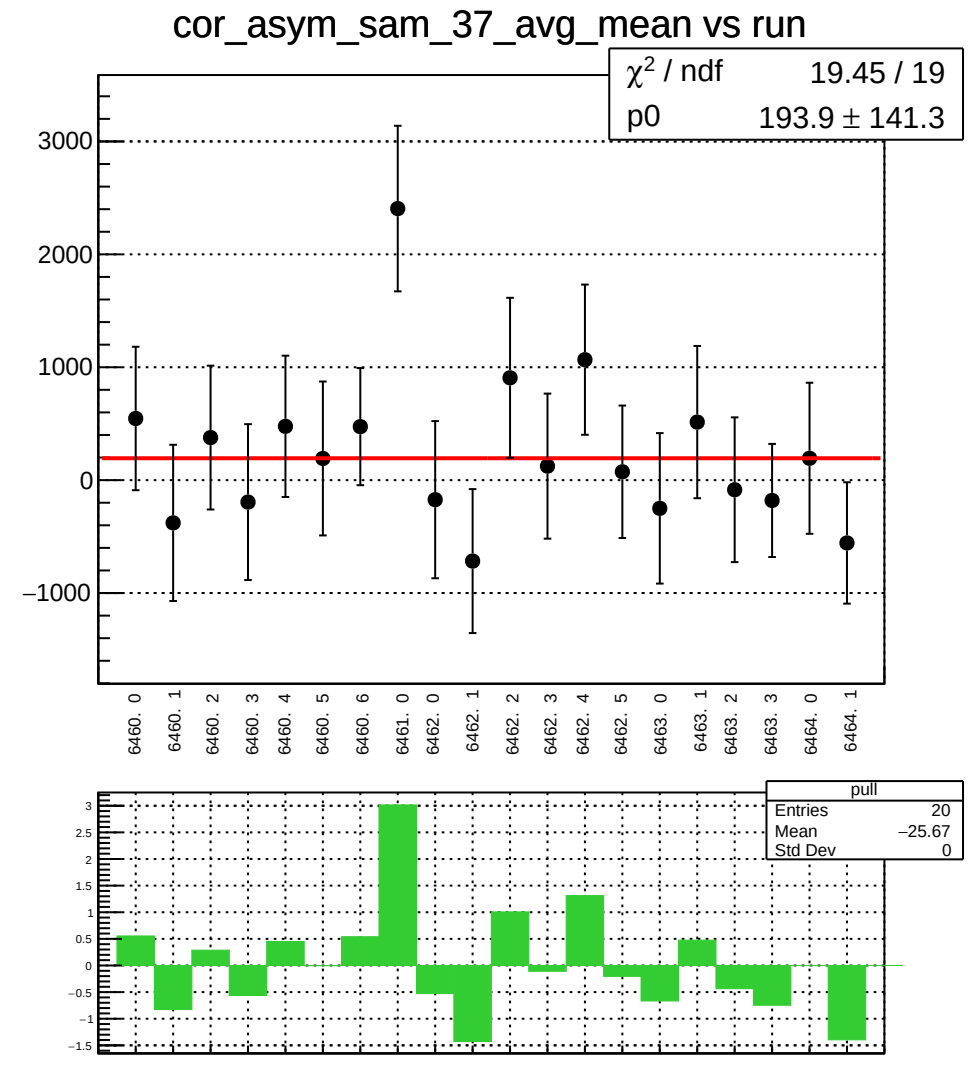

pull1D
Entries 20
Mean 0.03685
Std Dev 0.9854
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

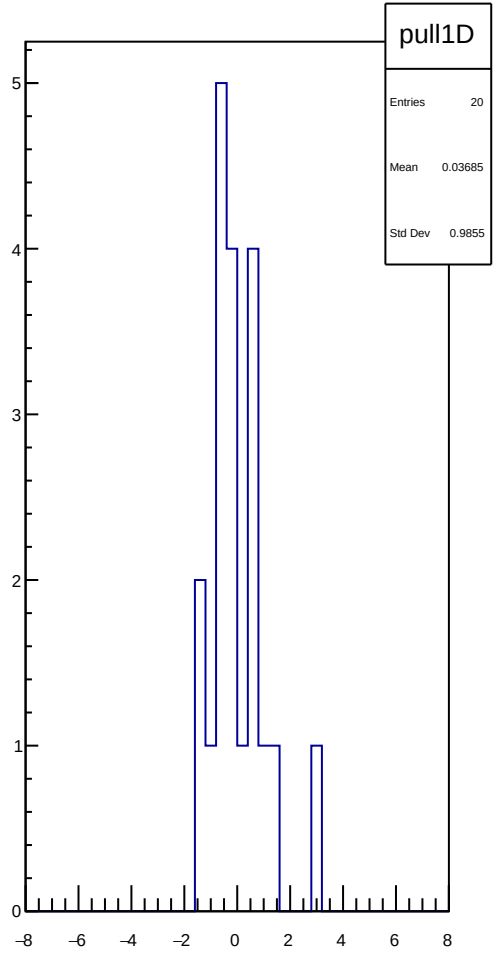

reg_asym_sam_37_avg_rms vs run
χ² / ndf 998.4 / 19
p0 63.53 ± 0.09992
76
74
72
70
68
66
64
62
60
58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

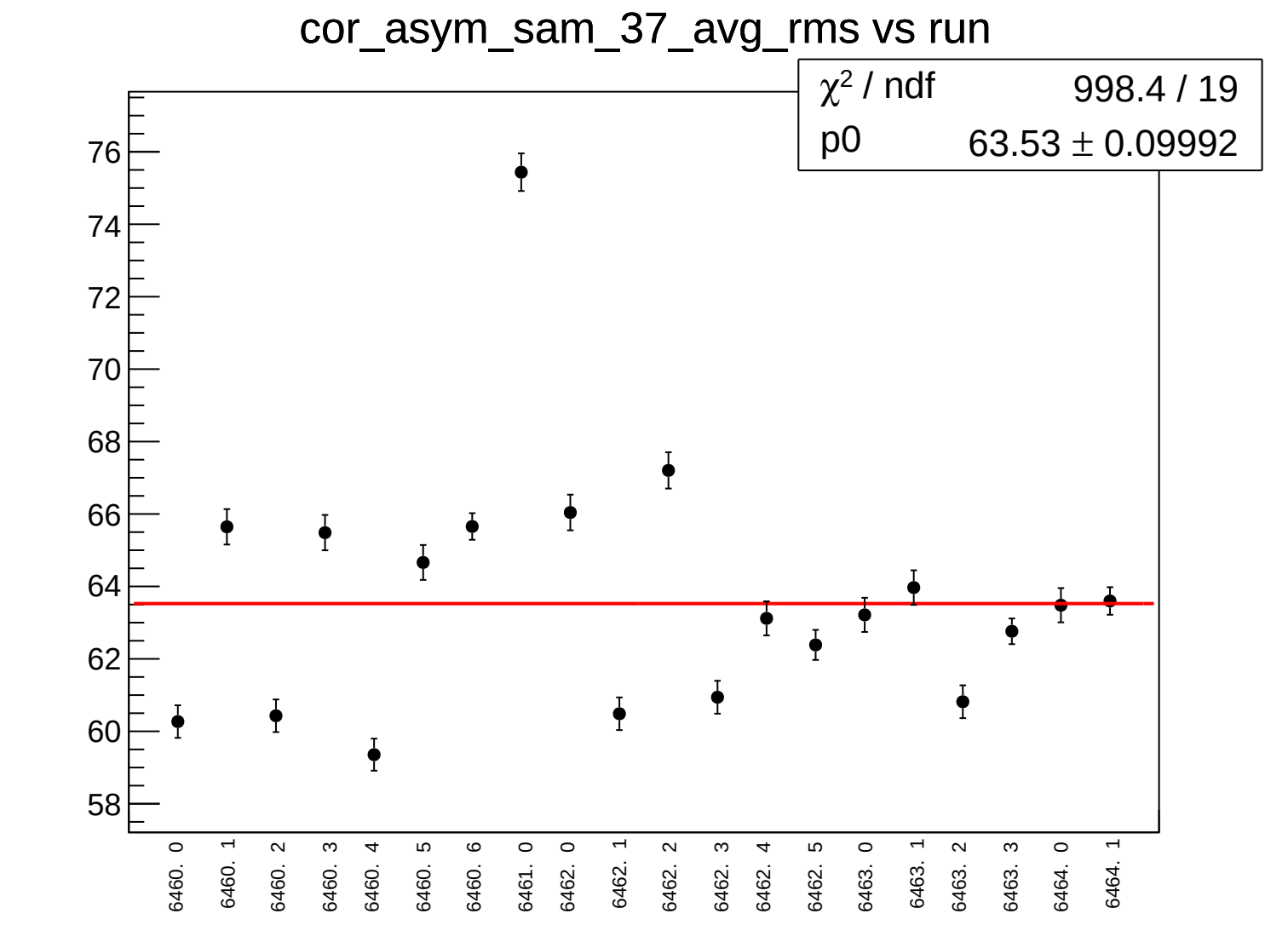

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 10.56 / 19
p0 −488.2 ± 1840
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.65
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

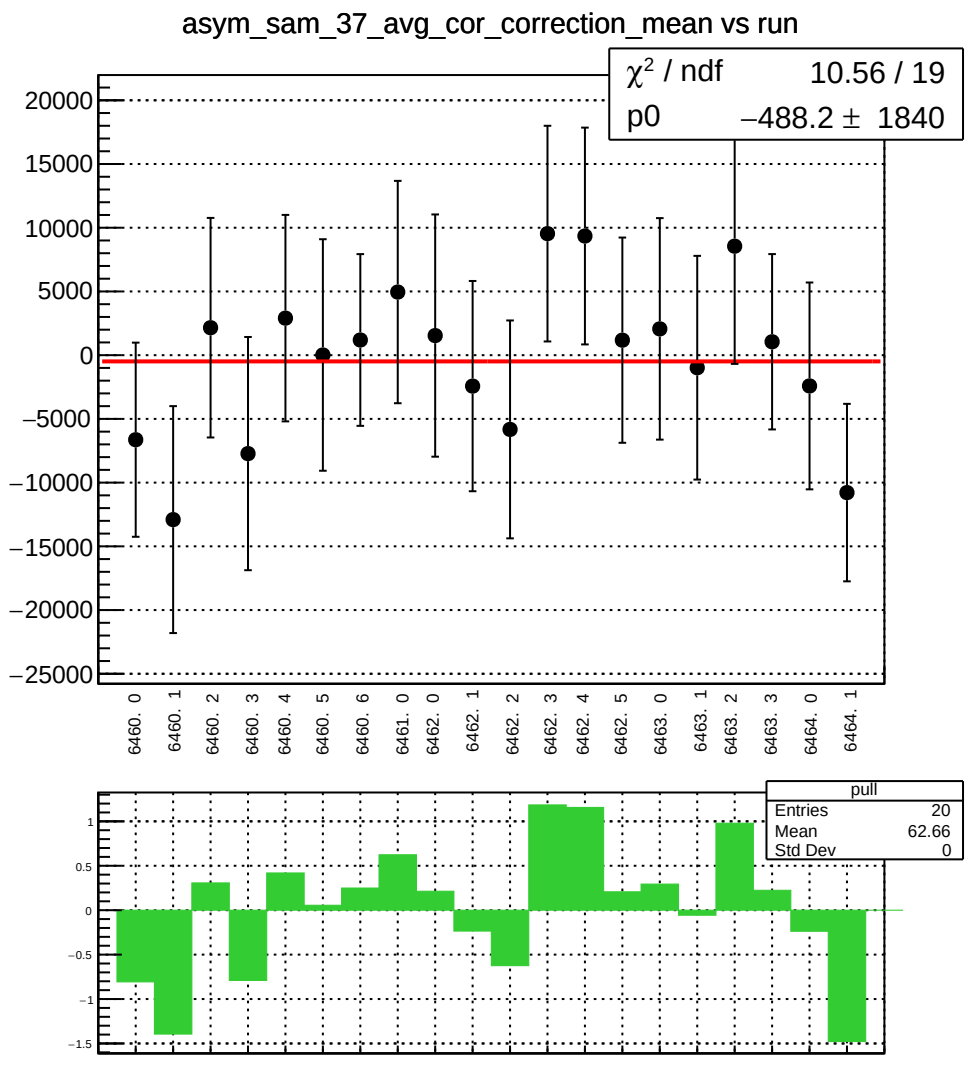

pull1D
Entries 20
Mean 0.01447
Std Dev 0.7264
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

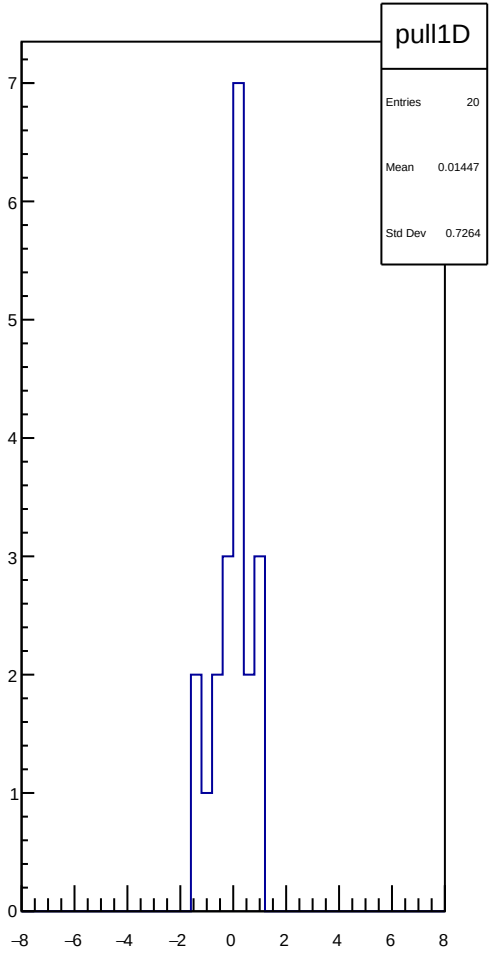

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1170 / 19
p0 827.1 ± 1.301
900
850
800
750
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

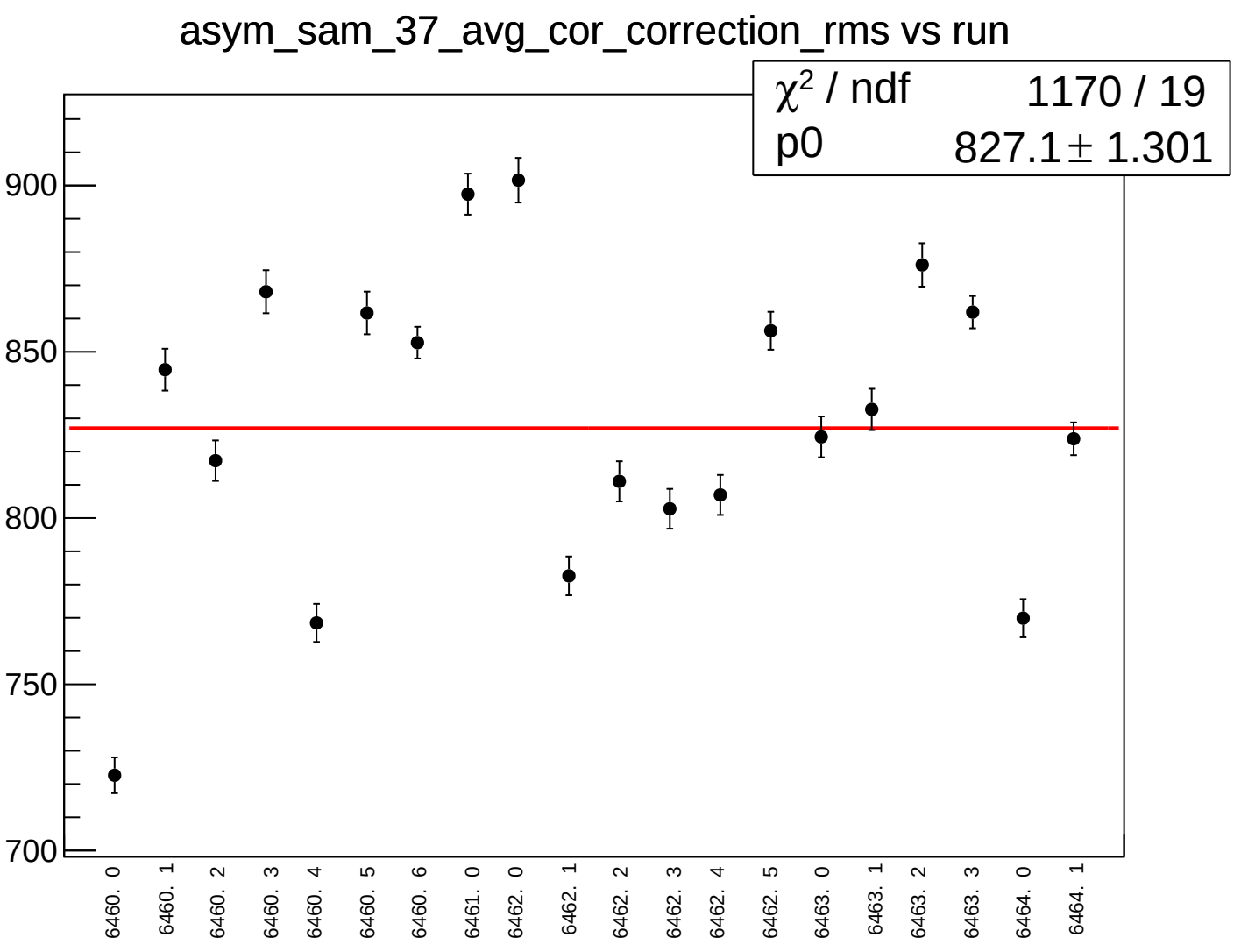

cor_asym_sam_37_avg_mean vs run
χ² / ndf 19.45 / 19
p0 193.9 ± 141.3
3000
2000
1000
0
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −25.67
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

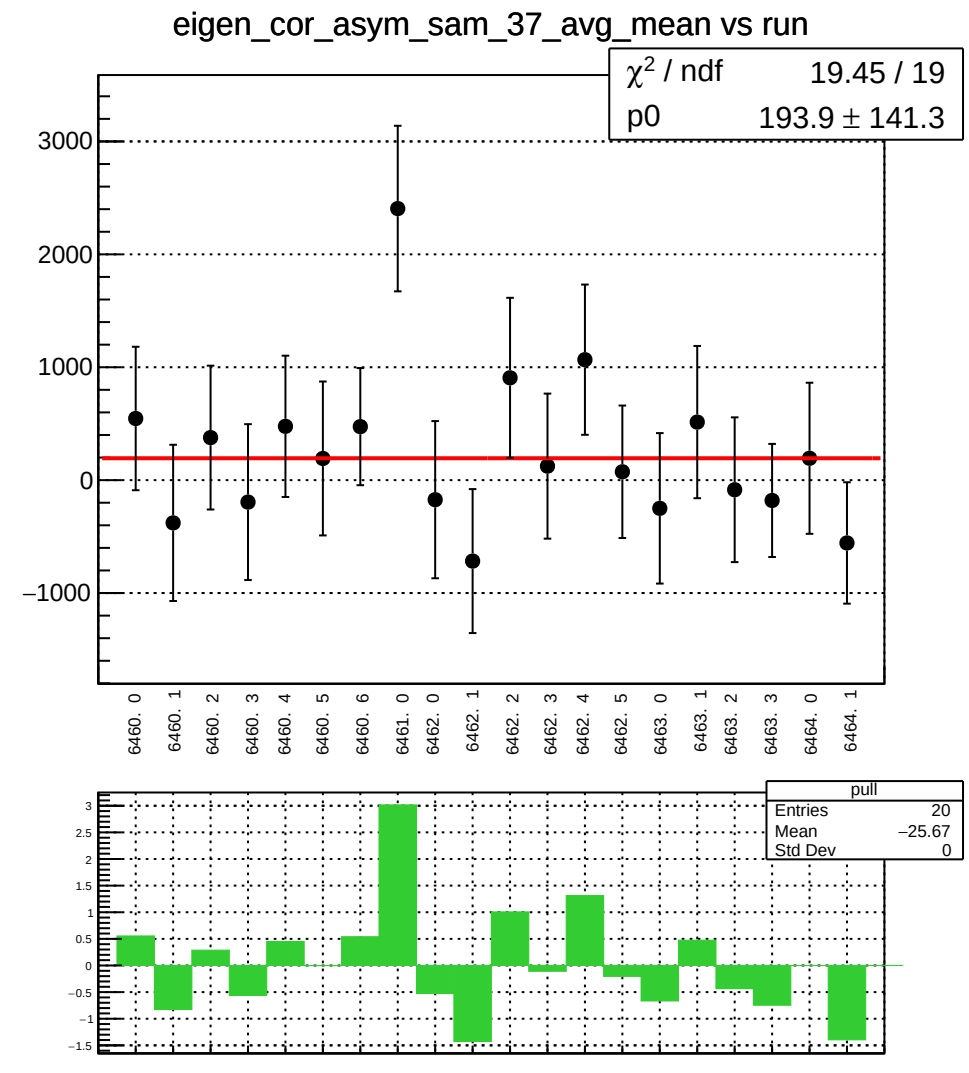

pull1D
Entries 20
Mean 0.03685
Std Dev 0.9855
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

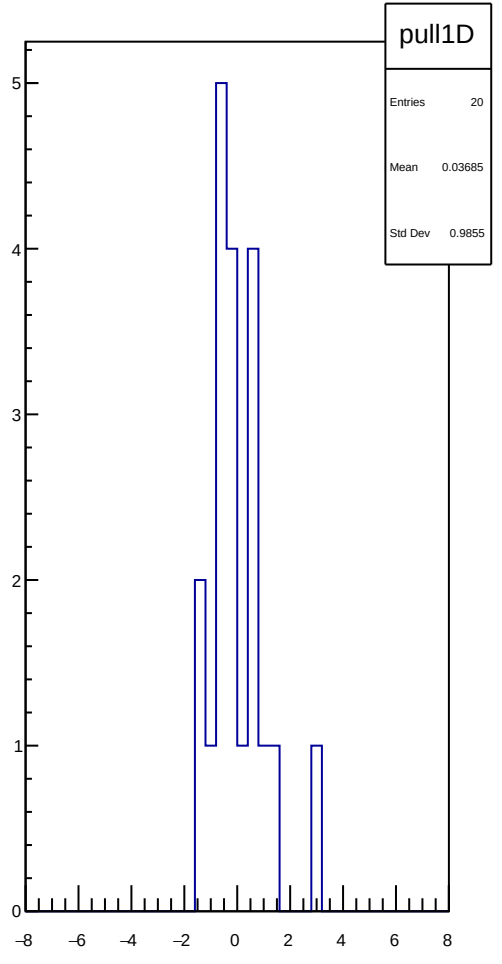

cor_asym_sam_37_avg_rms vs run
χ² / ndf 998.4 / 19
p0 63.53 ± 0.09992
76
74
72
70
68
66
64
62
60
58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

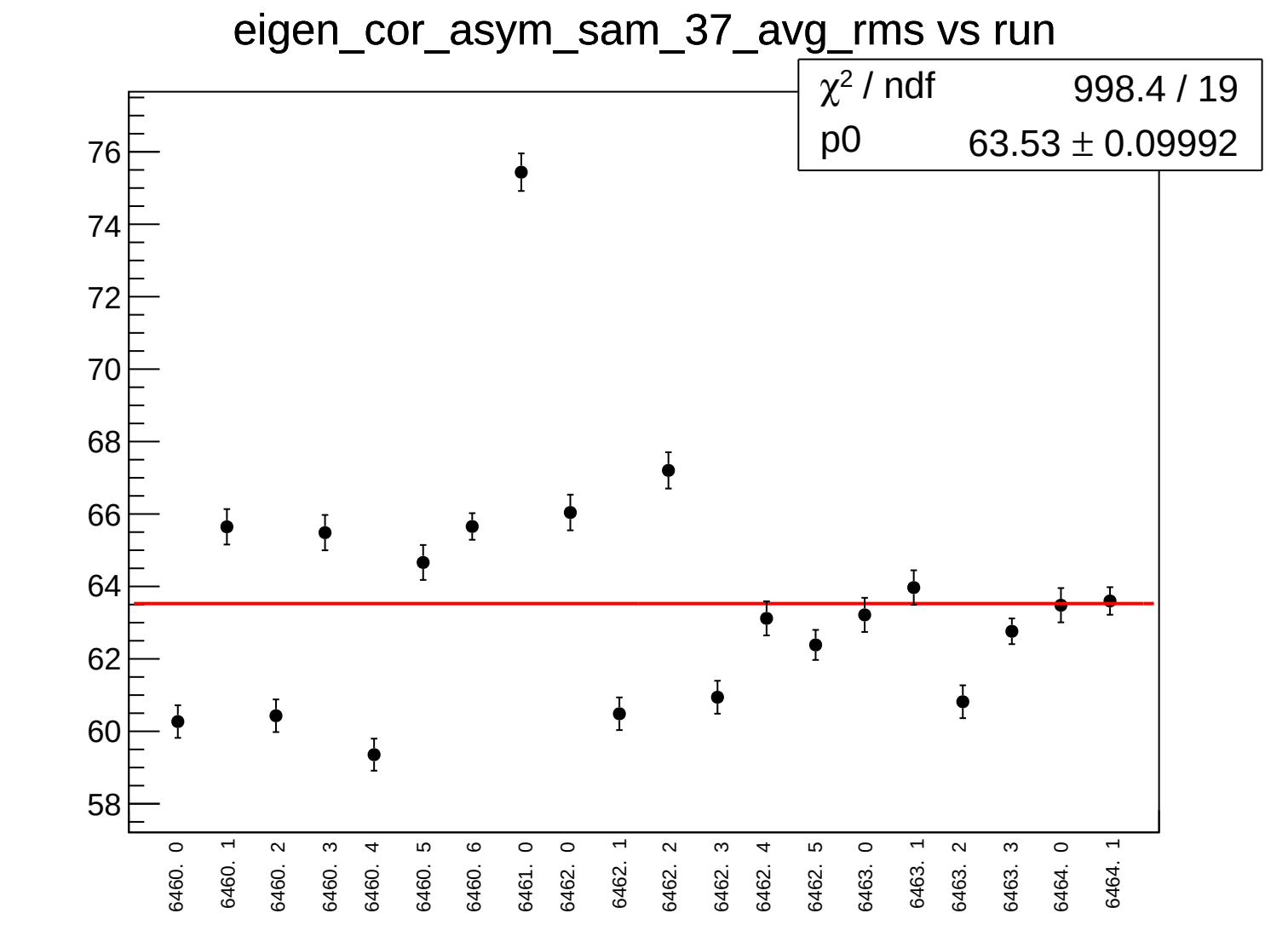

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 10.56 / 19
p0 −488.2 ± 1840
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.66
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

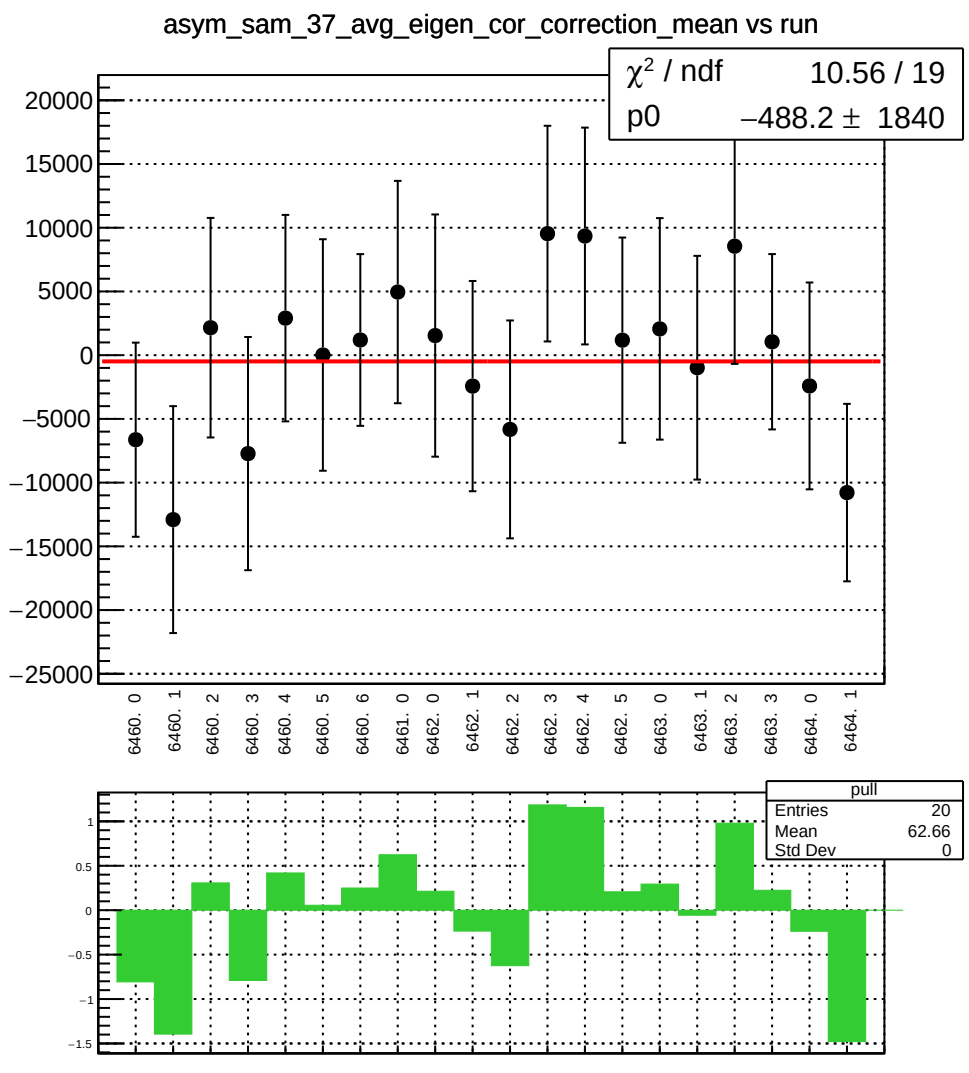

pull1D
Entries 20
Mean 0.01447
Std Dev 0.7264
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

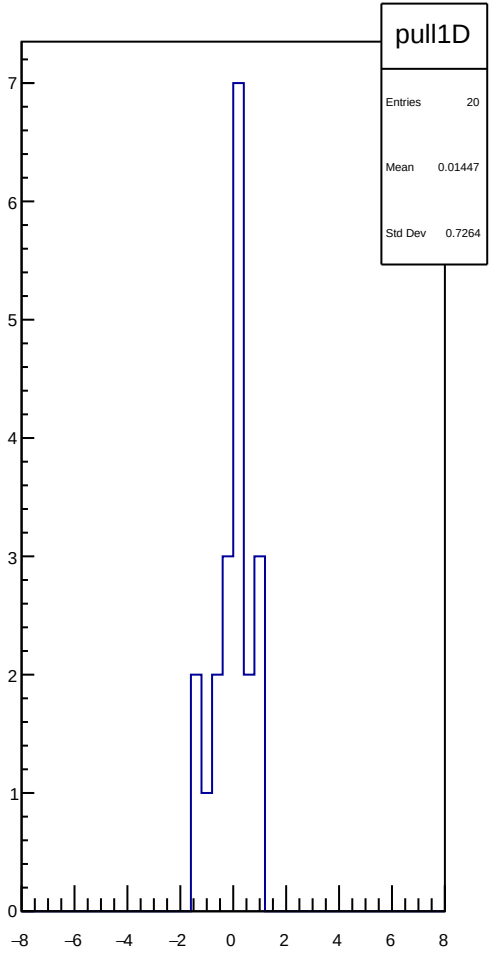

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1170 / 19
p0 827.1 ± 1.301
900
850
800
750
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

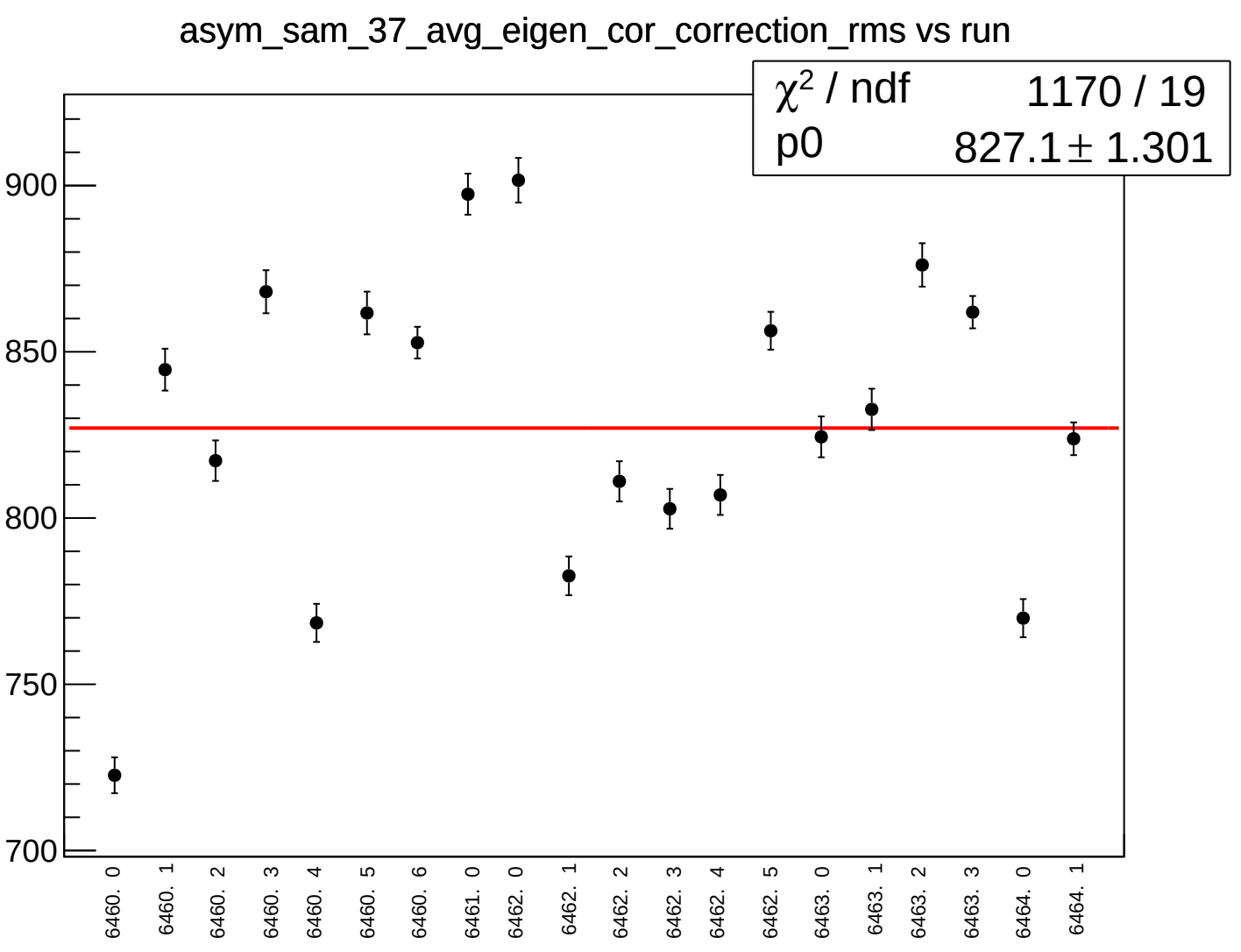

eigen_cor_asym_sam_37_avg_mean vs run
χ^2 / ndf 19.45 / 19
p0 193.9 ± 141.3
3000
2000
1000
0
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −25.67
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

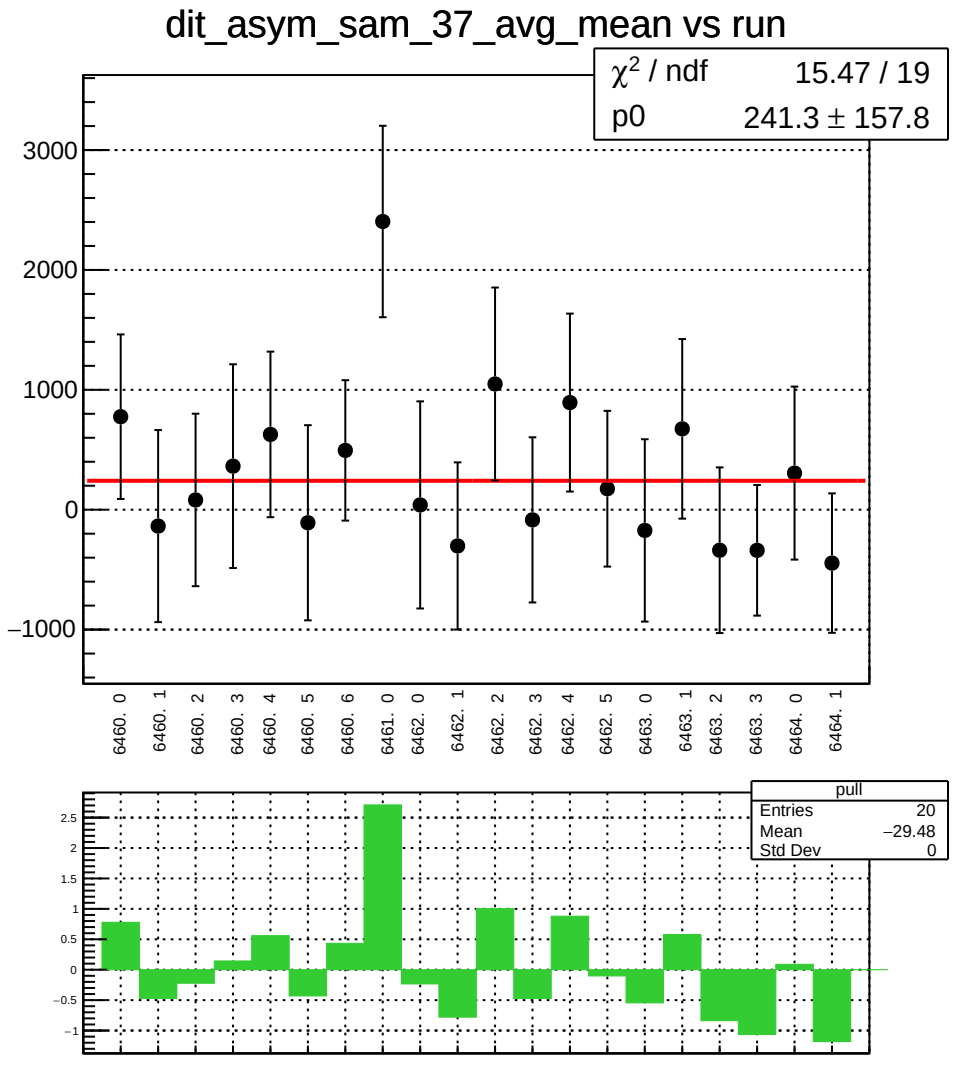

pull1D
Entries 20
Mean 0.03685
Std Dev 0.9855
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

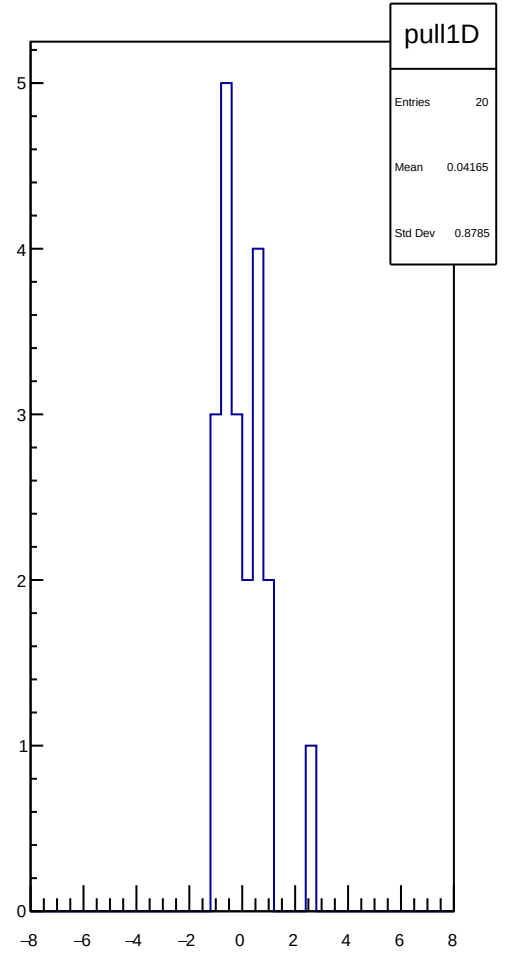

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 998.4 / 19
p0 63.53 ± 0.09992
76
74
72
70
68
66
64
62
60
58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

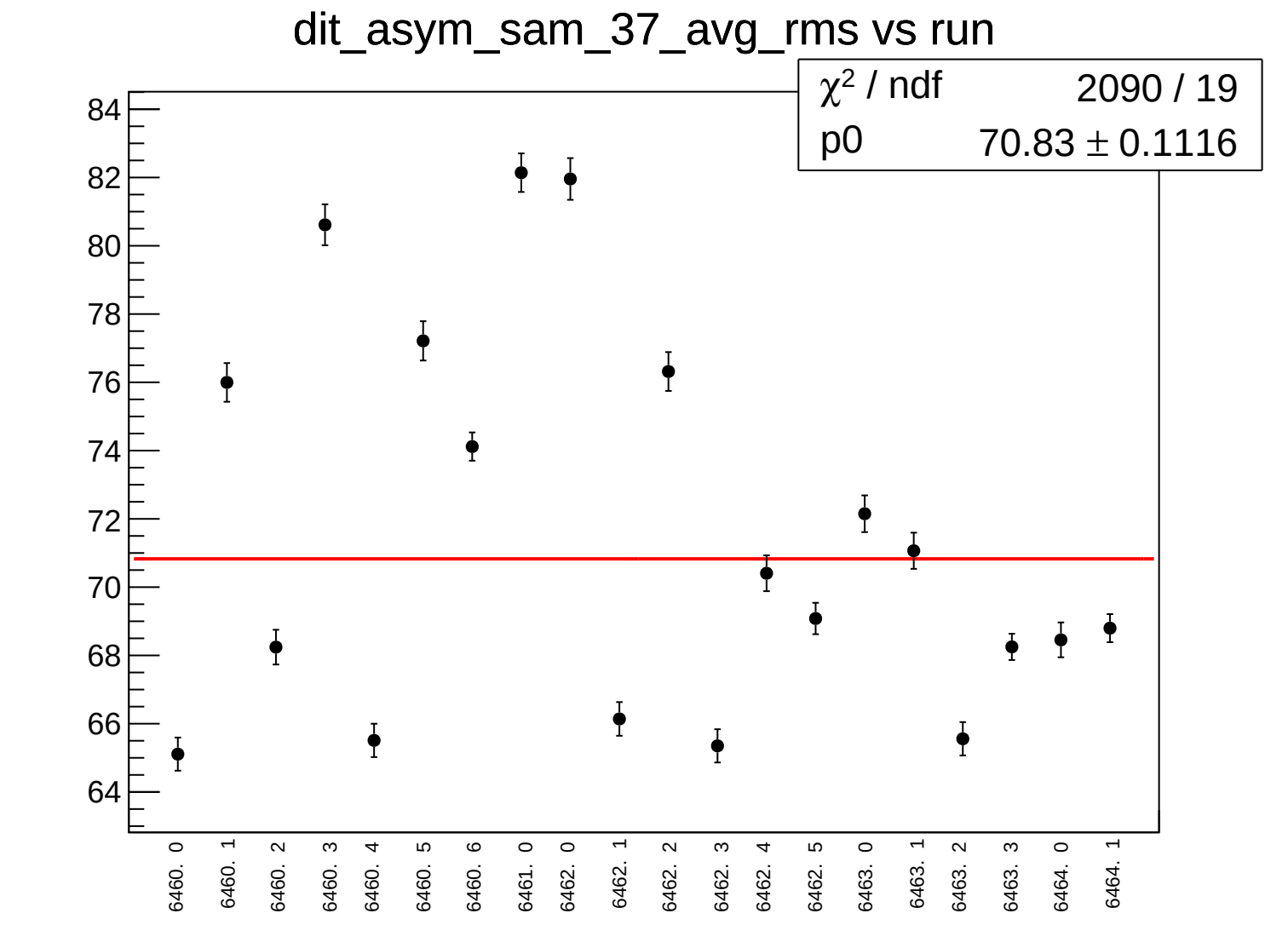

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.56 / 19
p0 −488.2 ± 1840
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.66
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

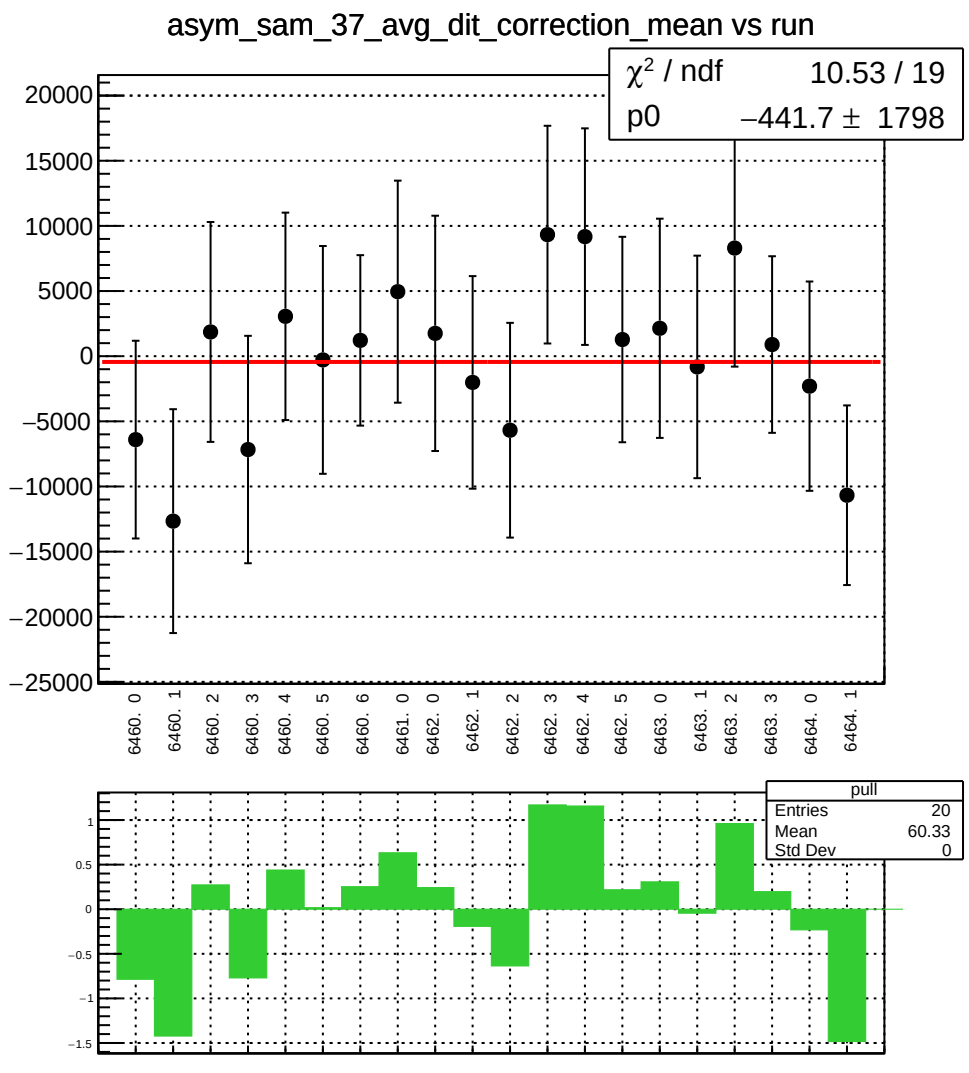

pull1D
Entries 20
Mean 0.01447
Std Dev 0.7264
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

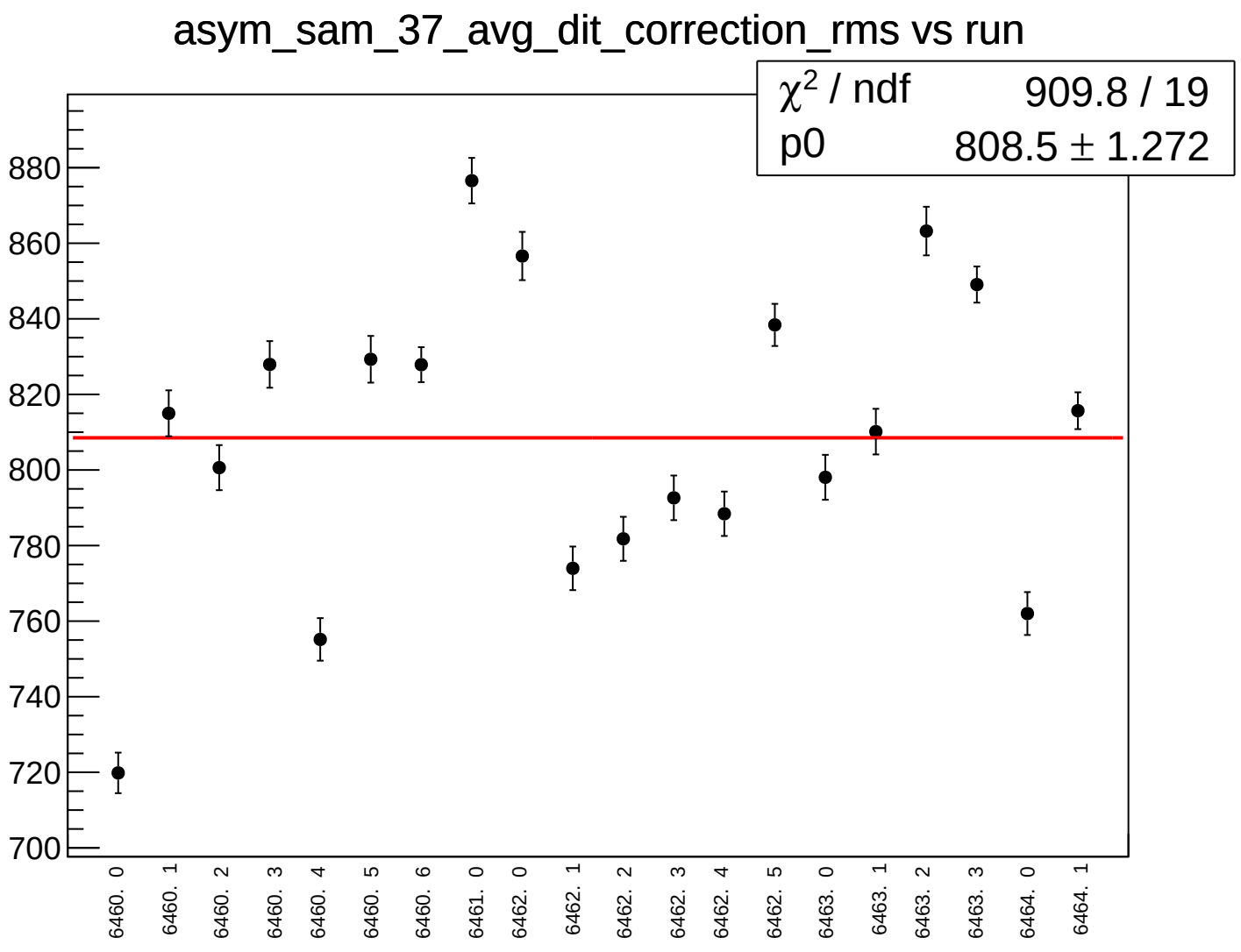

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1170 / 19
p0 827.1 ± 1.301
900
850
800
750
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

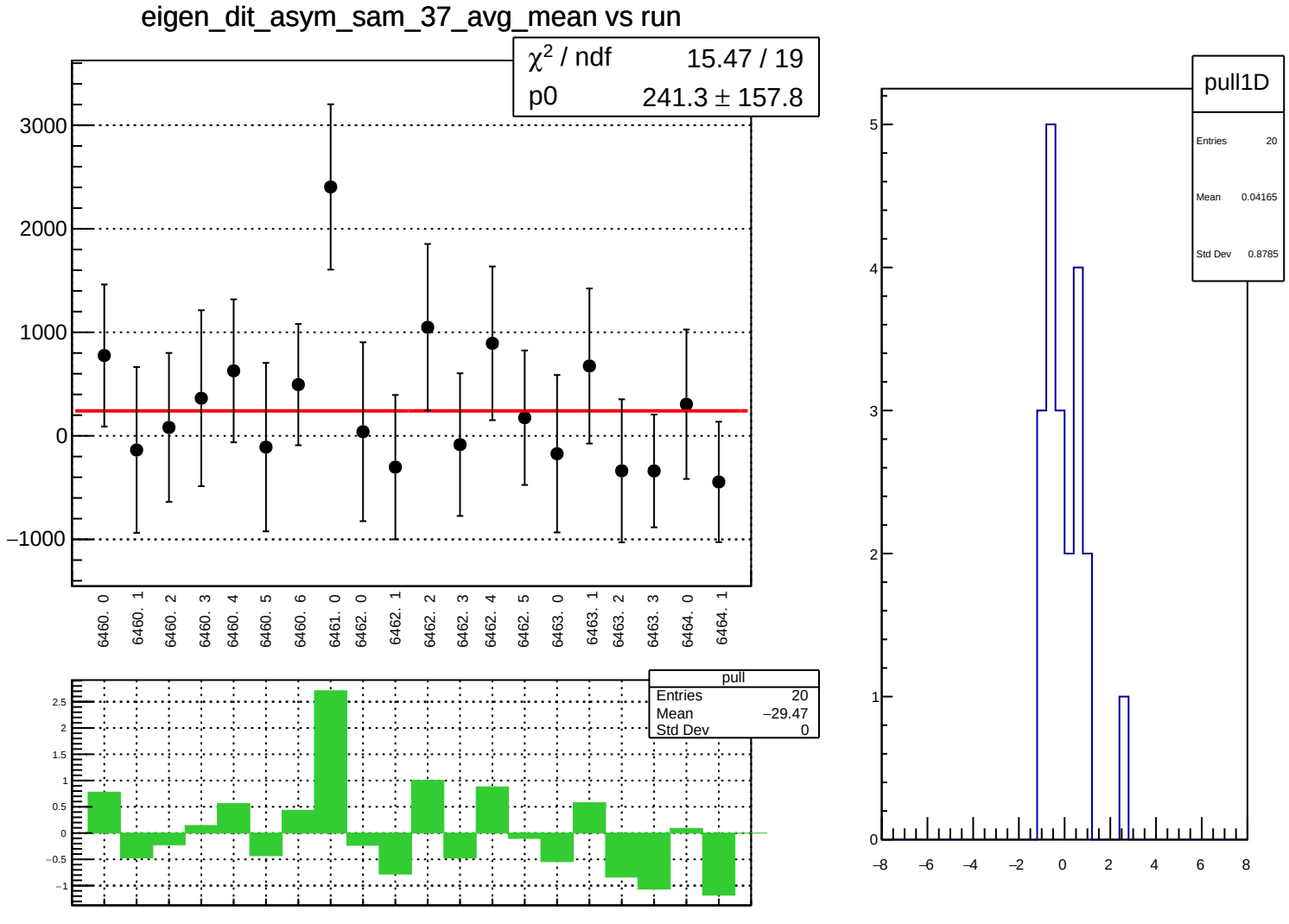

dit_asym_sam_37_avg_mean vs run
χ² / ndf 15.47 / 19
p0 241.3 ± 157.8
3000
2000
1000
0
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

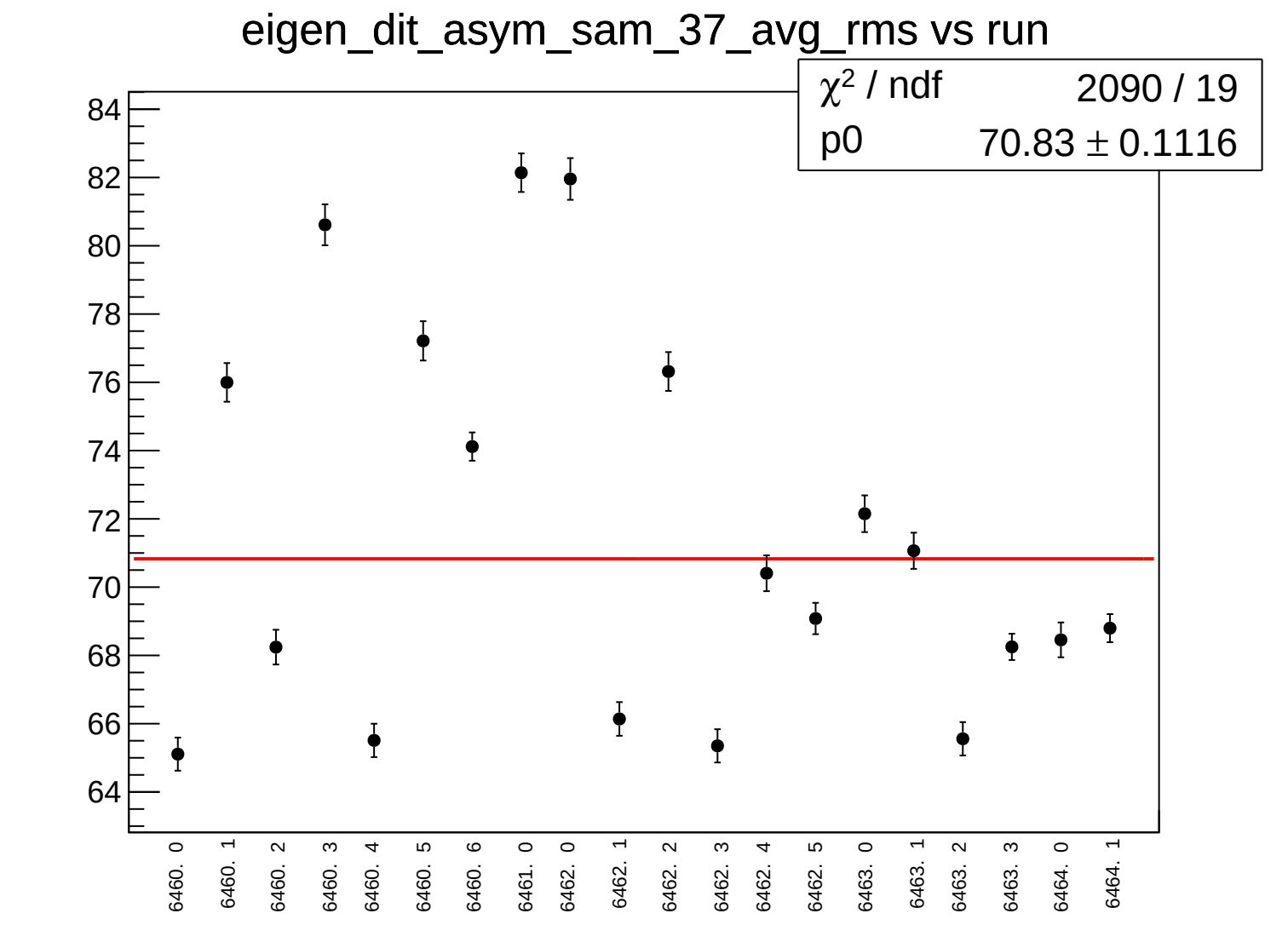

pull1D
Entries 20
Mean 0.04165
Std Dev 0.8785
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

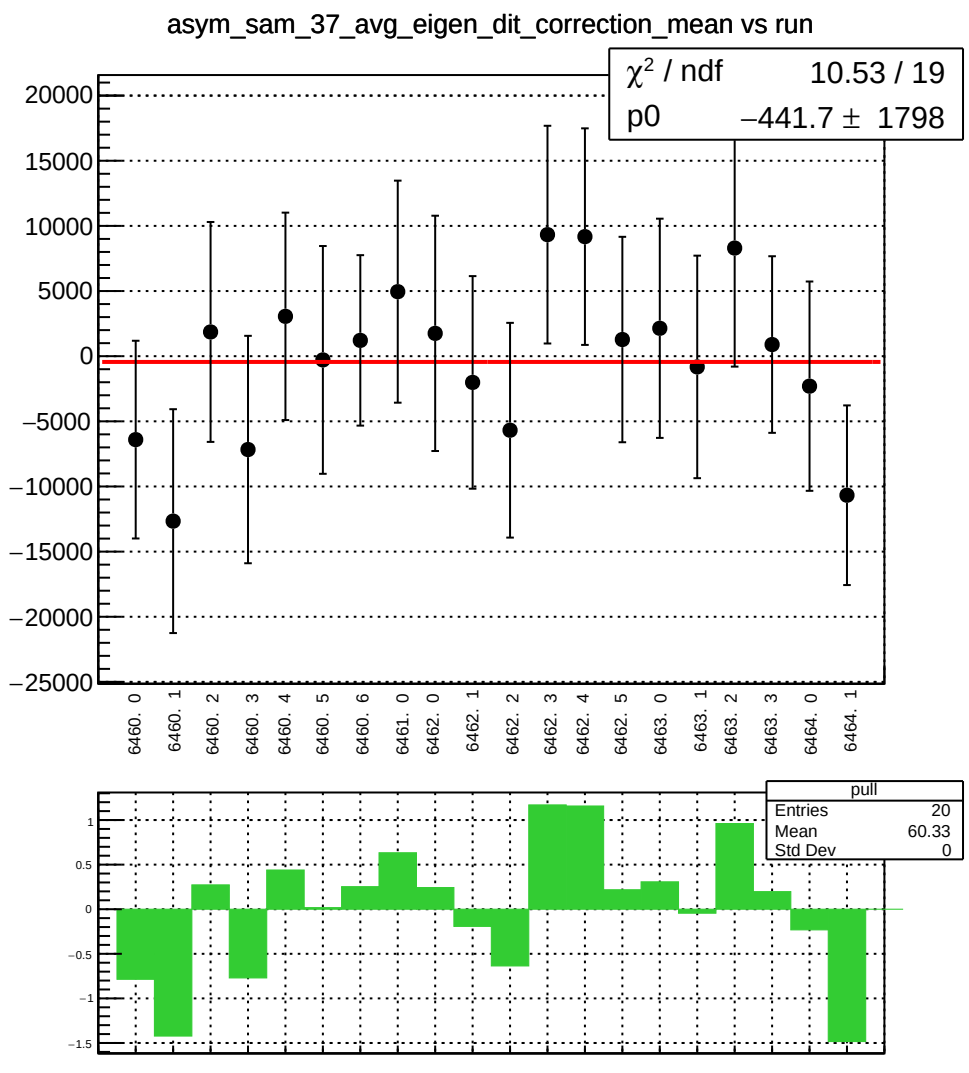

dit_asym_sam_37_avg_rms vs run
χ² / ndf 2090 / 19
p0 70.83 ± 0.1116
84
82
80
78
76
74
72
70
68
66
64
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

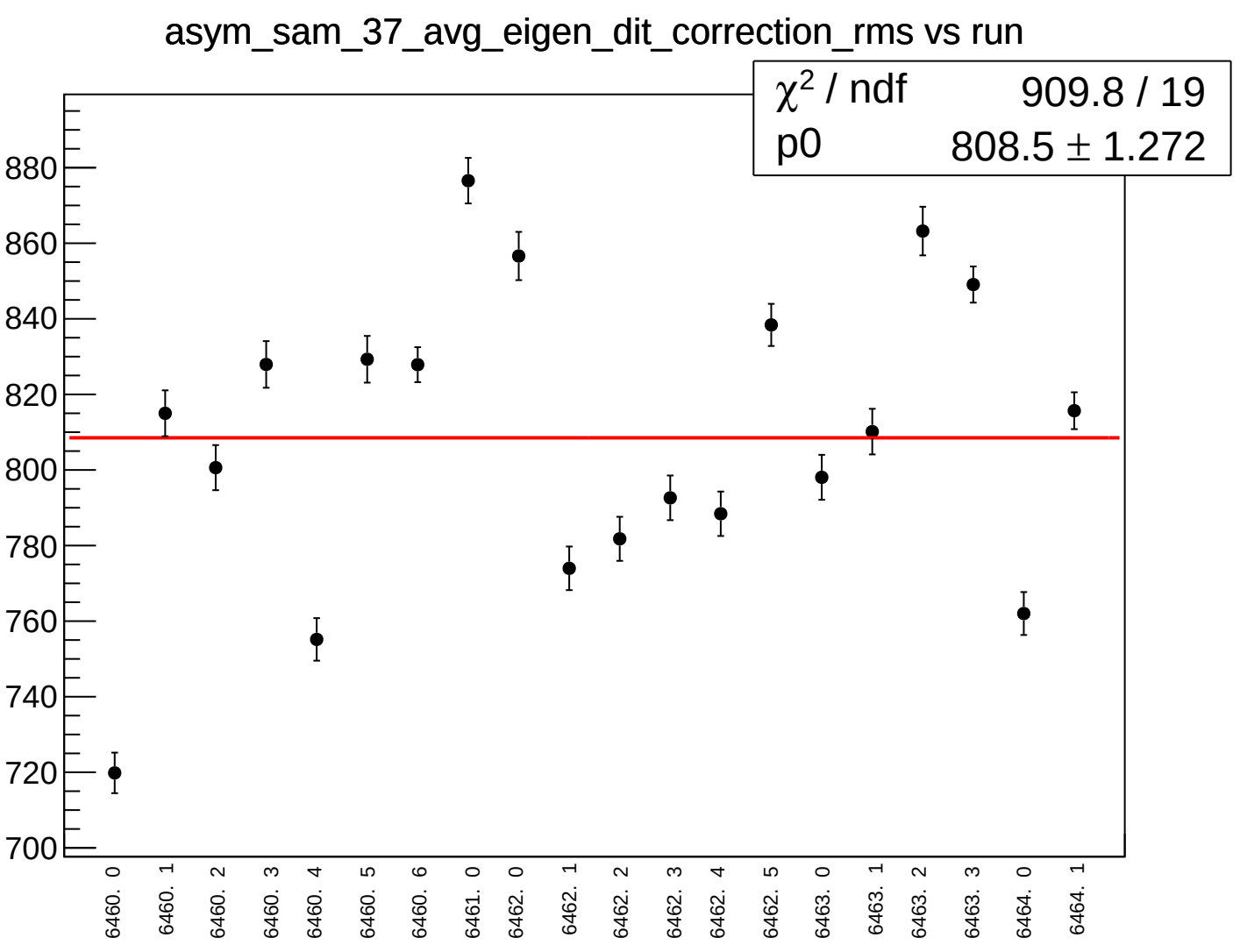

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 10.53 / 19
p0 −441.7 ± 1798
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.33
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01507
Std Dev 0.7256
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

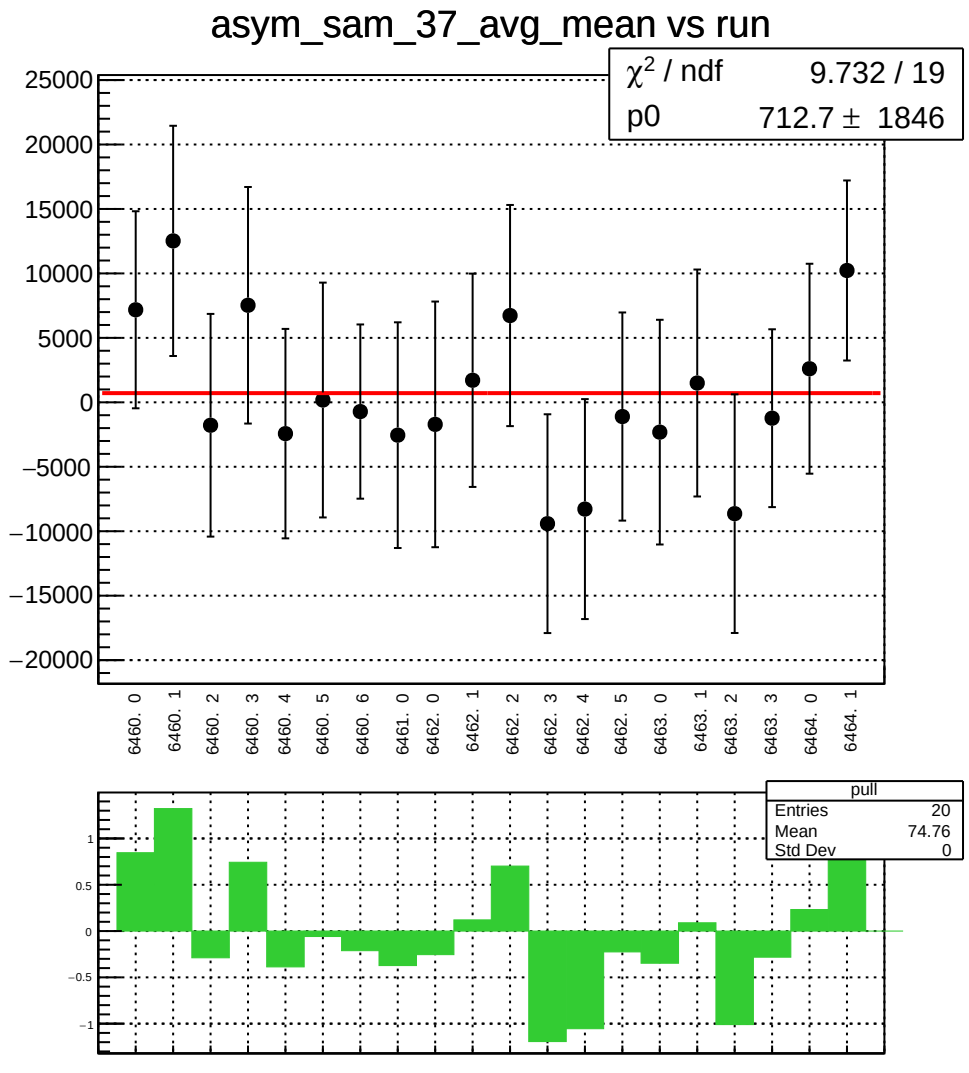

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 909.8 / 19
p0 808.5 ± 1.272
880
860
840
820
800
780
760
740
720
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

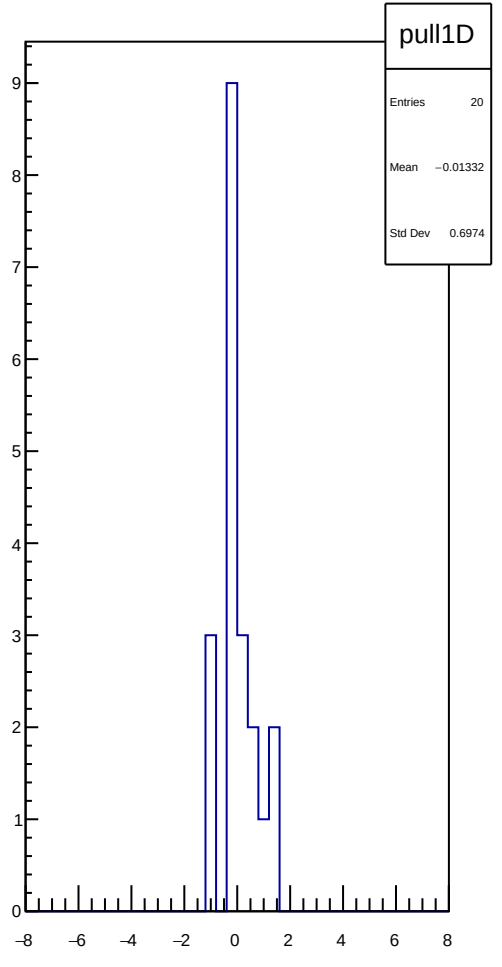

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 15.47 / 19
p0 241.3 ± 157.8
3000
2000
1000
0
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.04165
Std Dev 0.8785
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

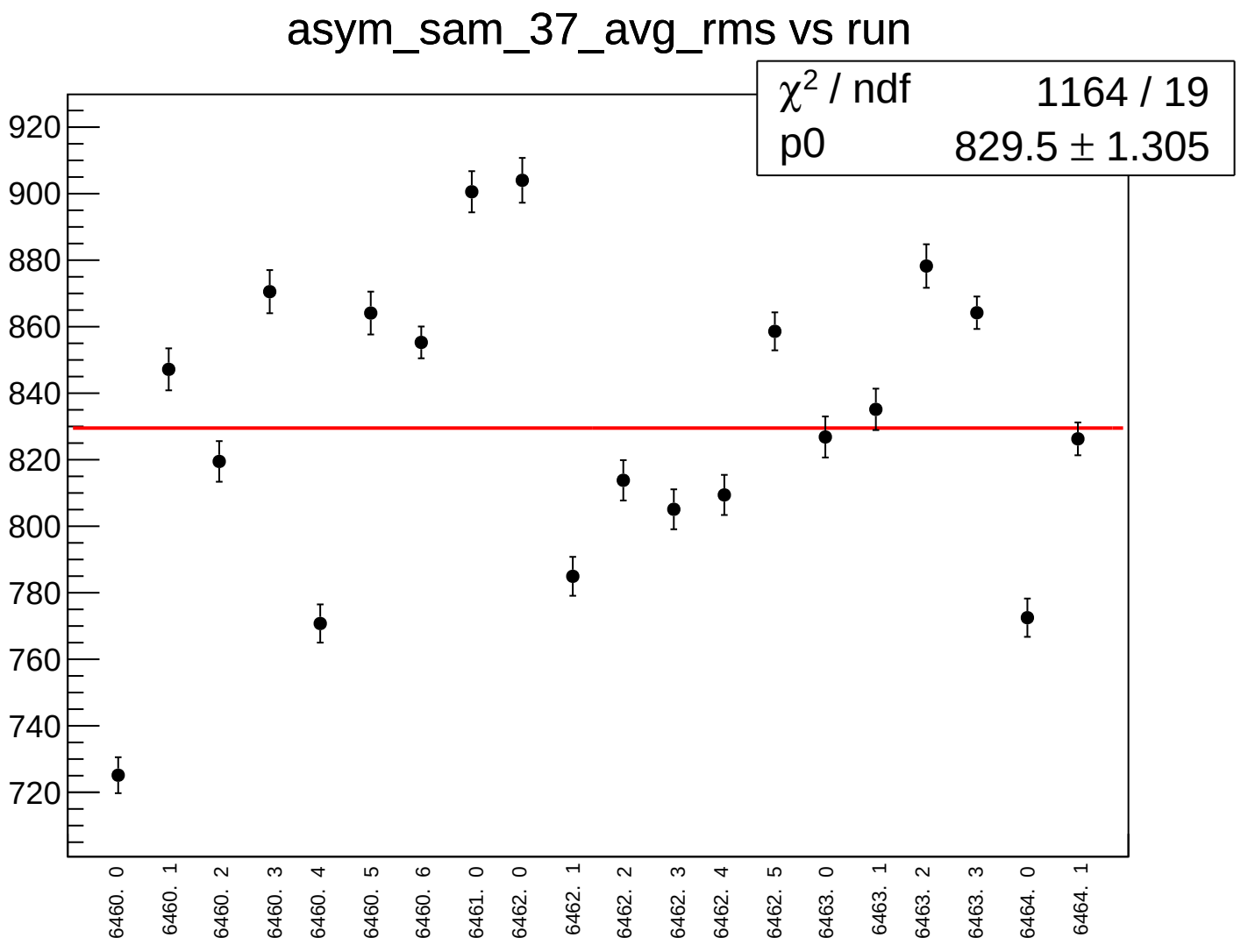

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2090 / 19
p0 70.83 ± 0.1116
84
82
80
78
76
74
72
70
68
66
64
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

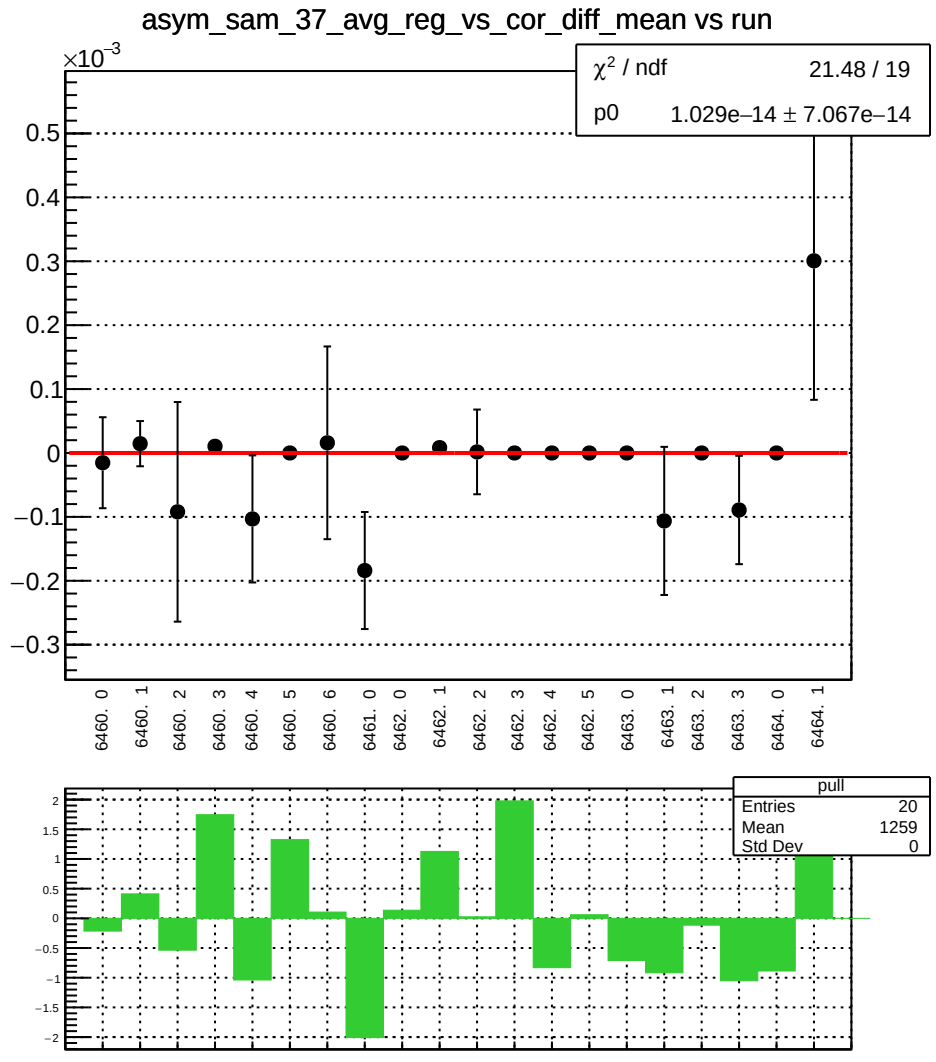

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.53 / 19
p0 −441.7 ± 1798
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.33
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01507
Std Dev 0.7256
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

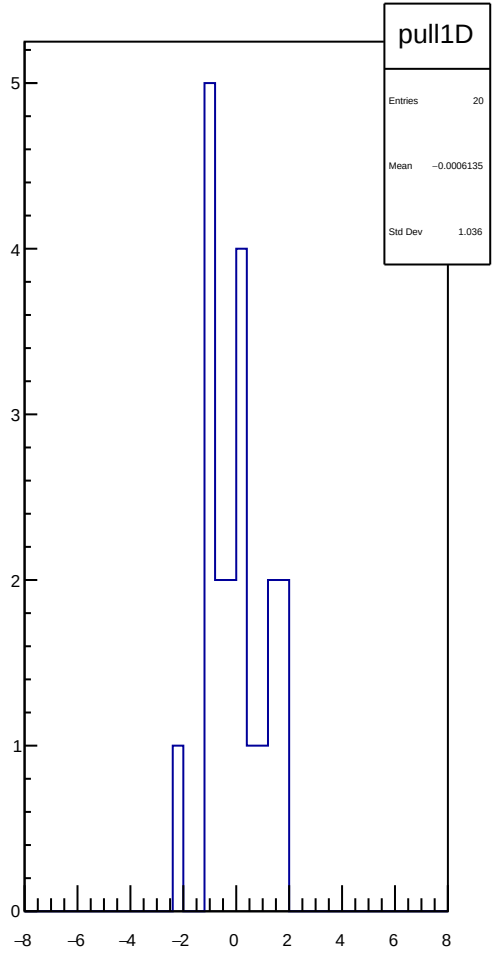

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 909.8 / 19
p0 808.5 ± 1.272
880
860
840
820
800
780
760
740
720
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

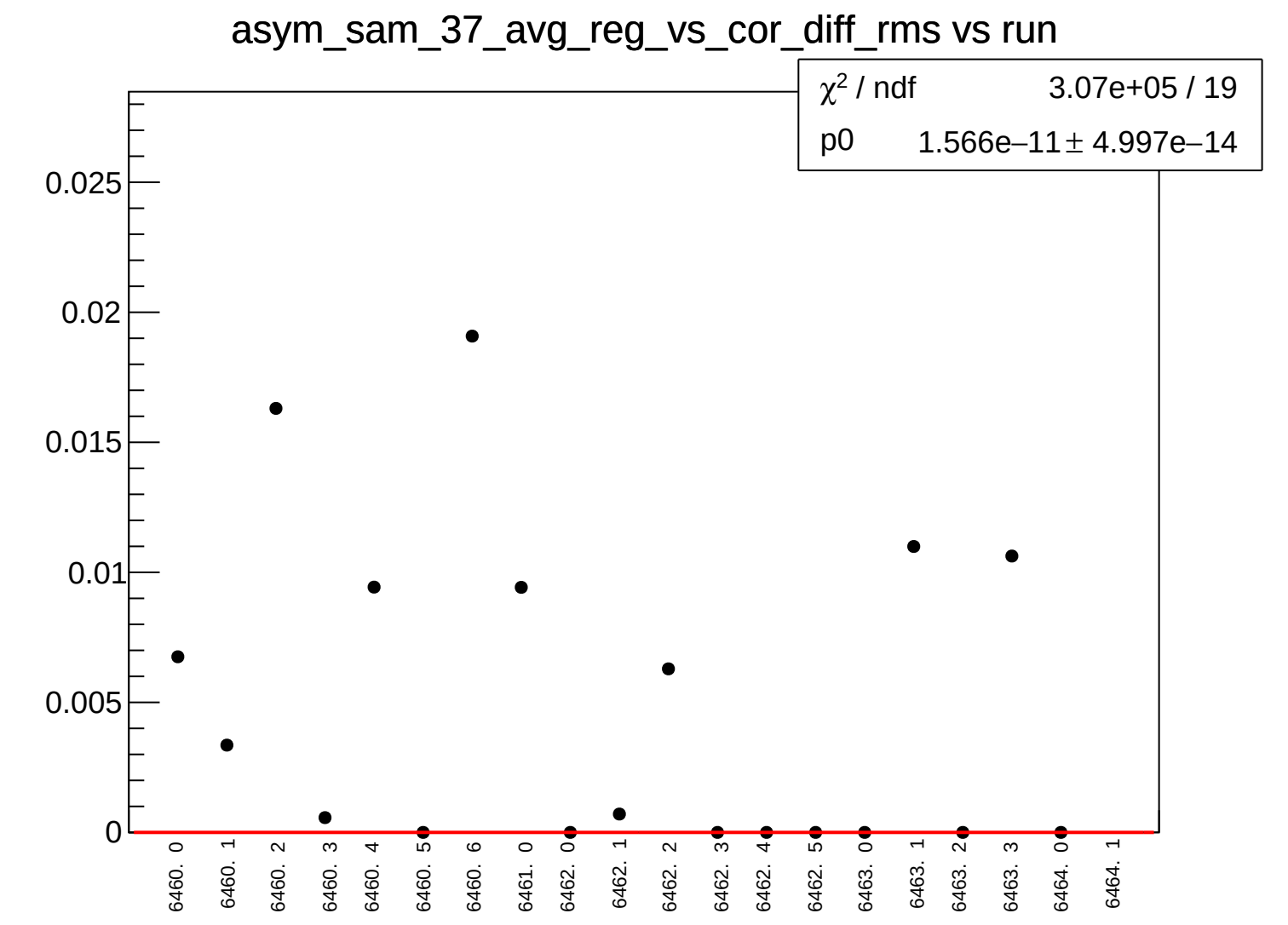

asym_sam_37_avg_mean vs run
χ² / ndf 9.732 / 19
p0 712.7 ± 1846
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 74.76
Std Dev 0
1
0.5
0
−0.5
−1

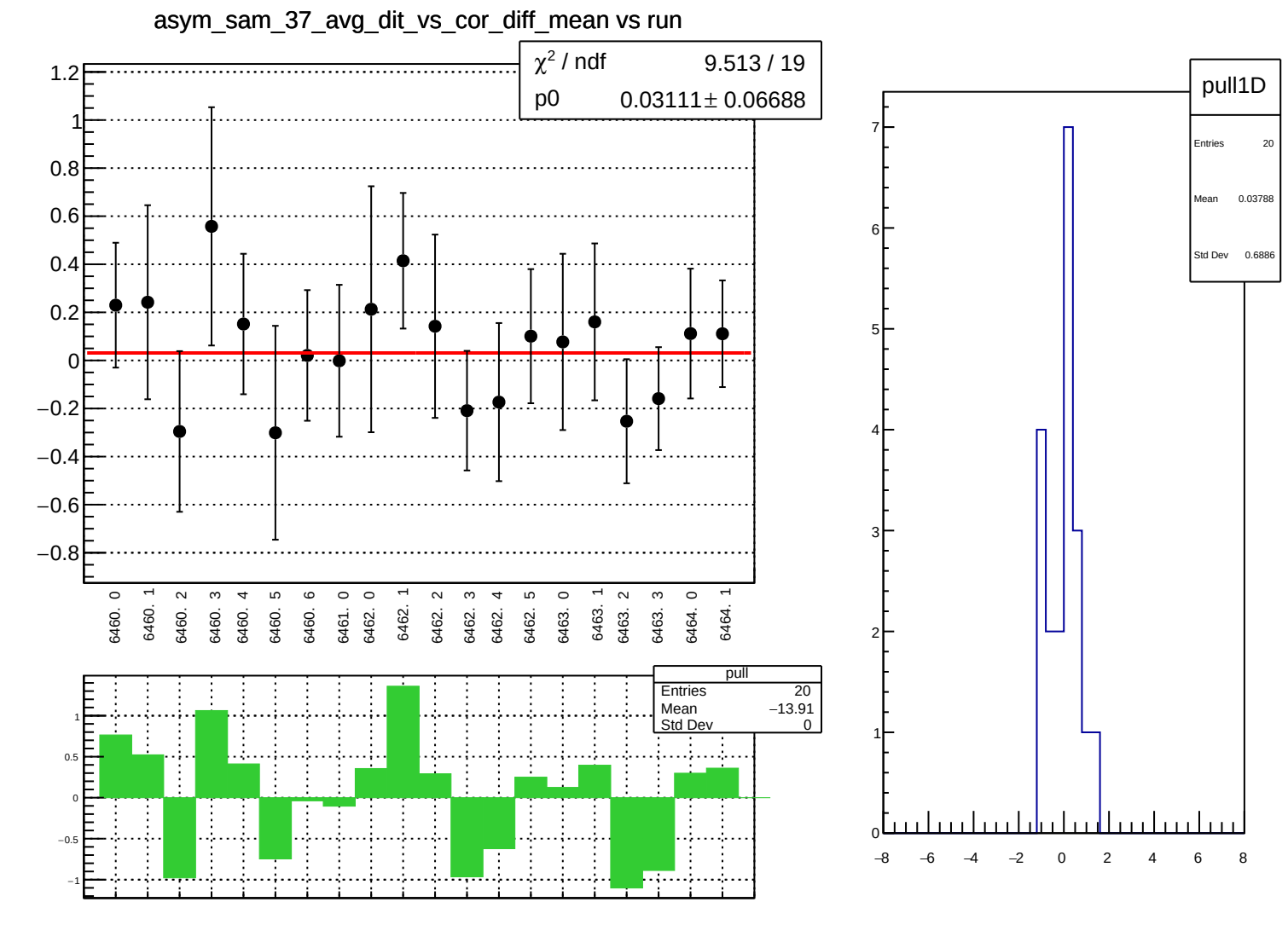

pull1D
Entries 20
Mean −0.01332
Std Dev 0.6974
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

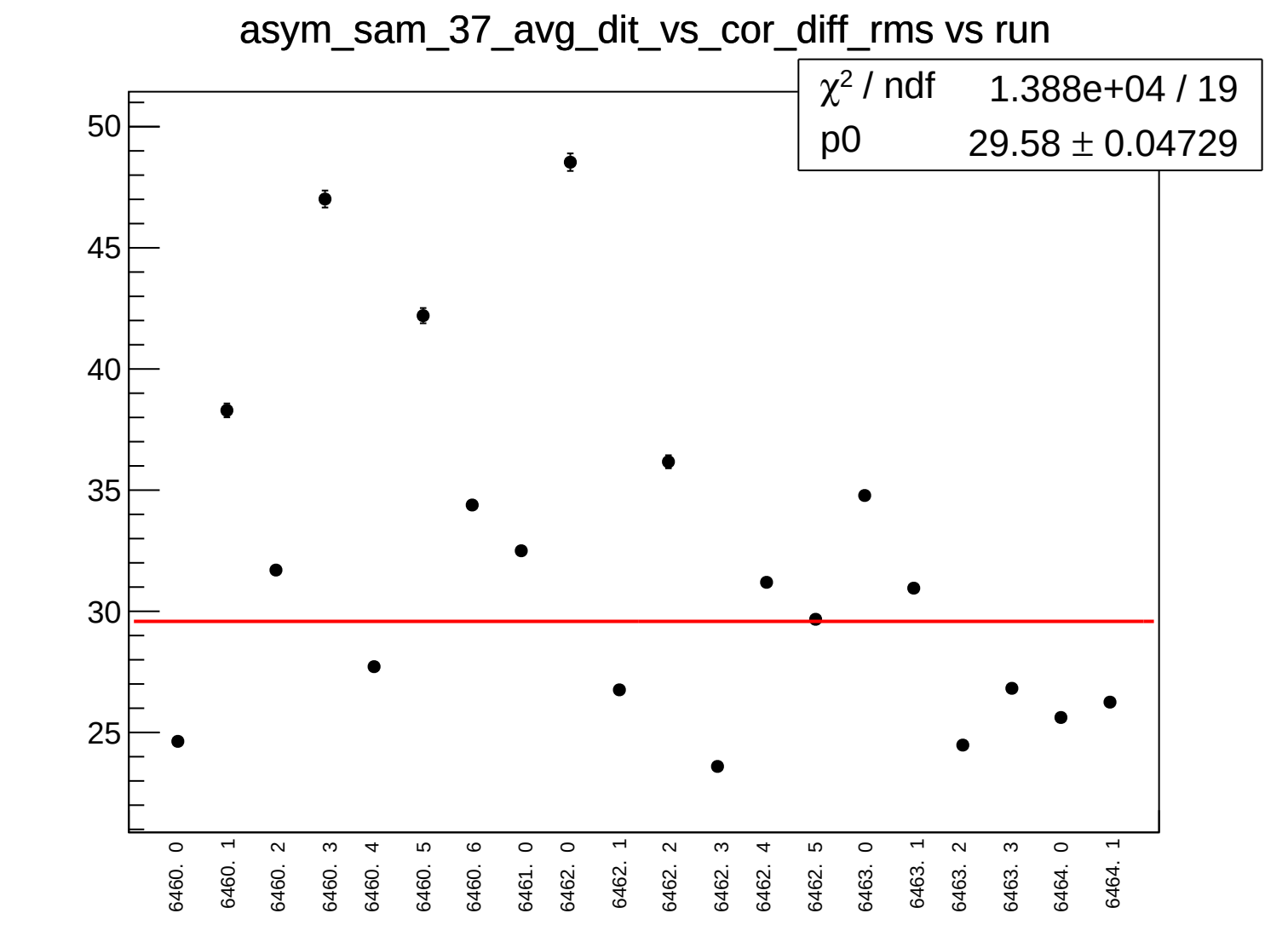

asym_sam_37_avg_rms vs run
χ^2 / ndf 1164 / 19
p0 829.5 ± 1.305
920
900
880
860
840
820
800
780
760
740
720
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

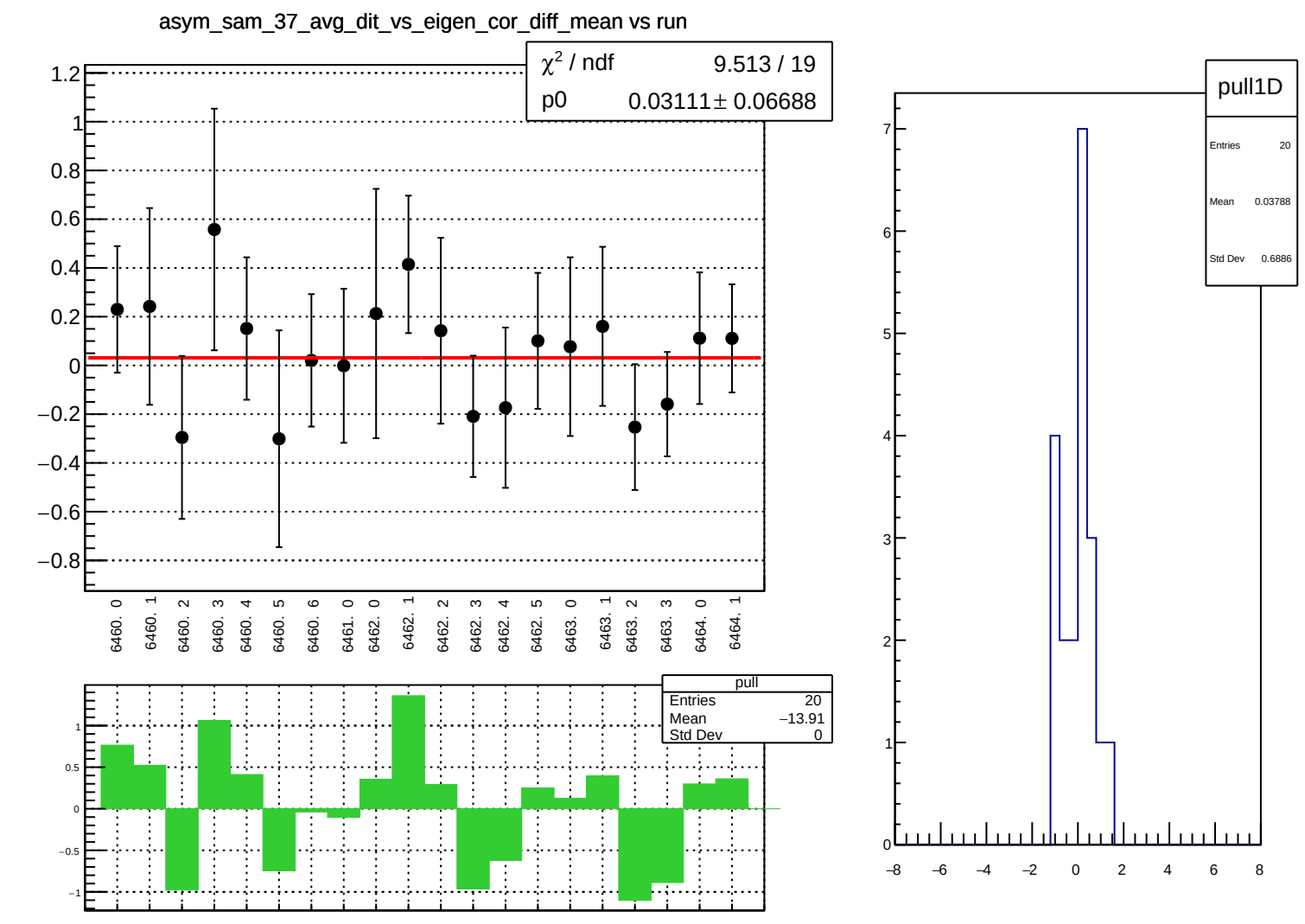

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 21.48 / 19
p0 1.029e−14 ± 7.067e−14
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1259
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

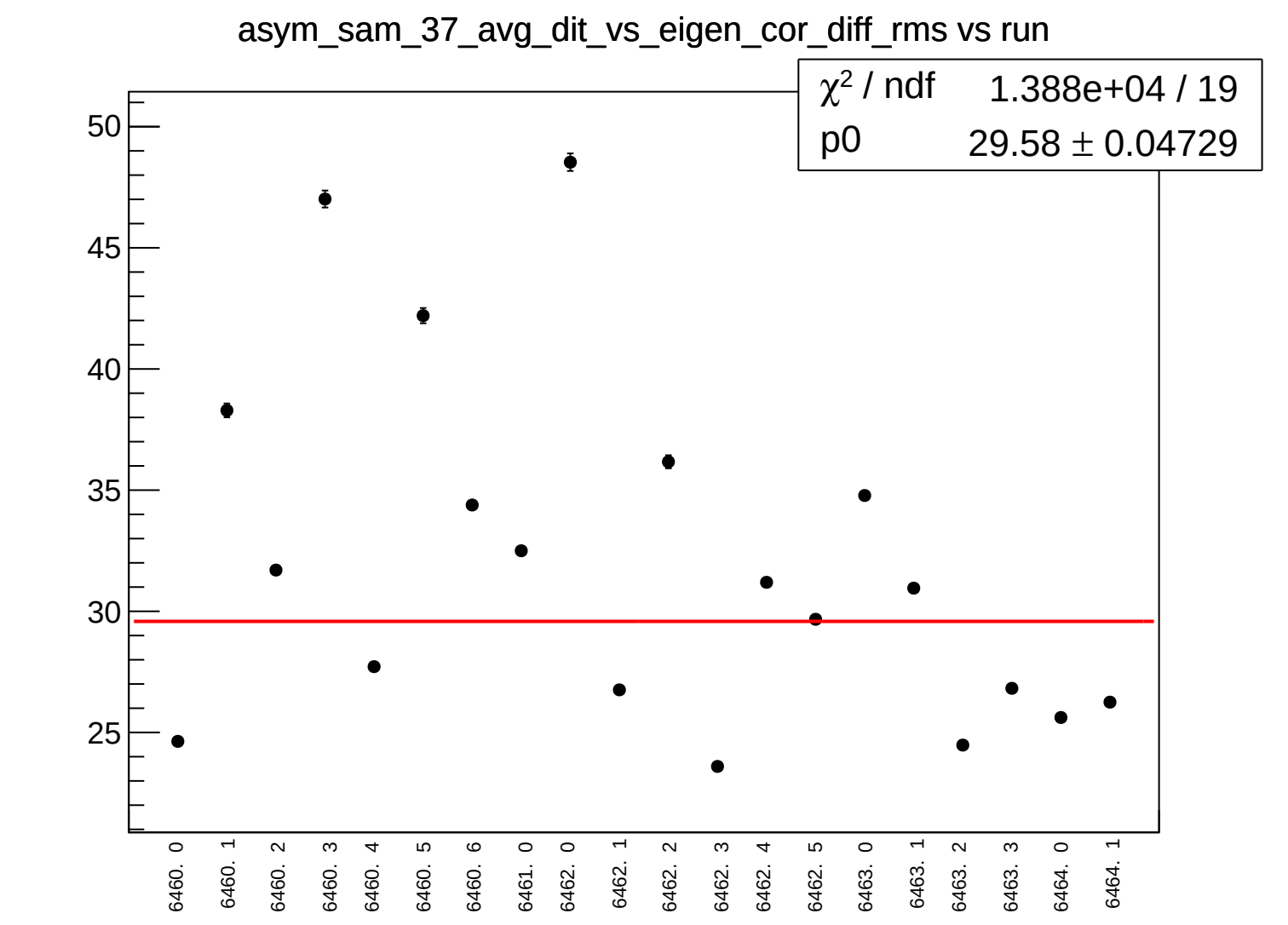

pull1D
Entries 20
Mean −0.0006135
Std Dev 1.036
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

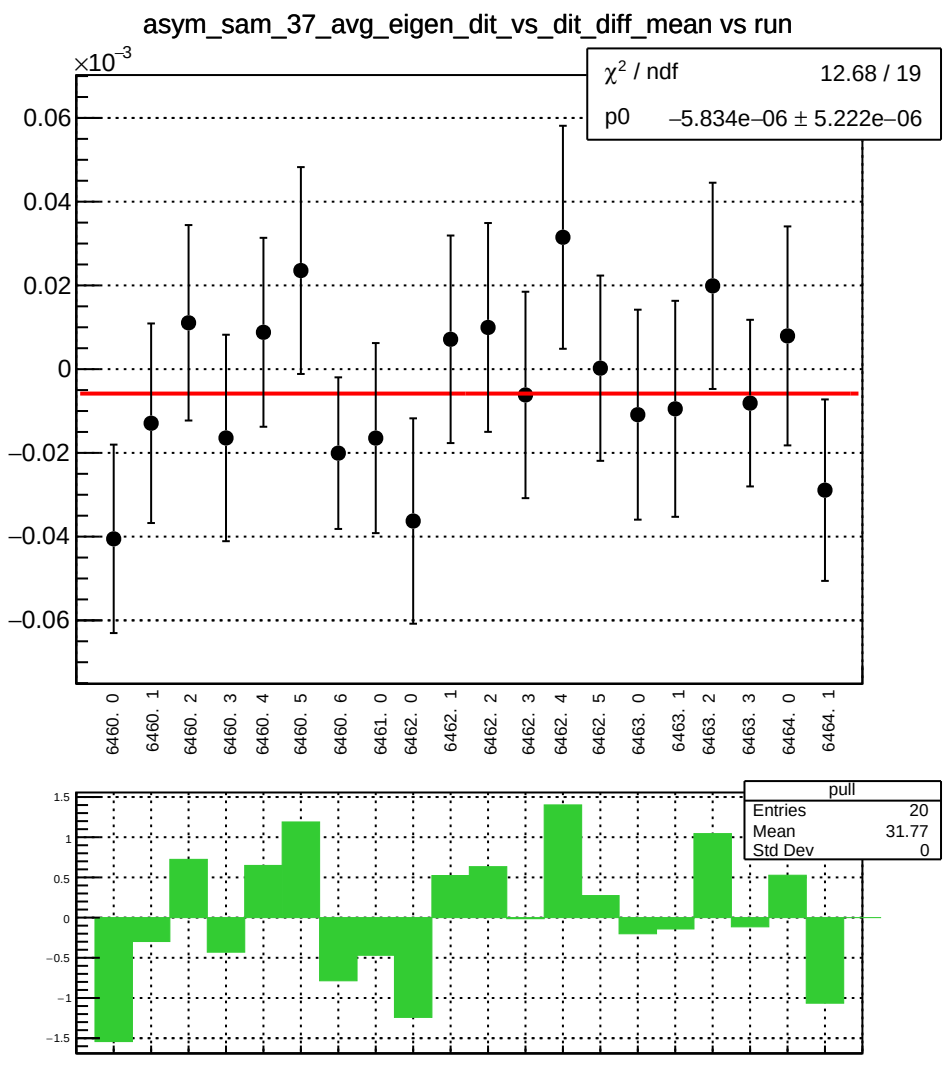

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.07e+05 / 19
p0 1.566e−11 ± 4.997e−14
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

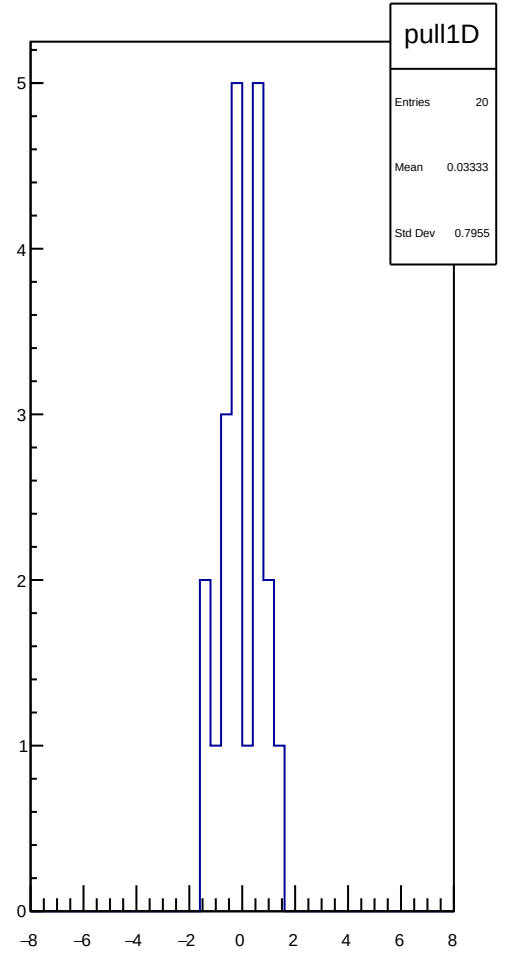

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 9.513 / 19
p0 0.03111 ± 0.06688
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −13.91
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03788
Std Dev 0.6886
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

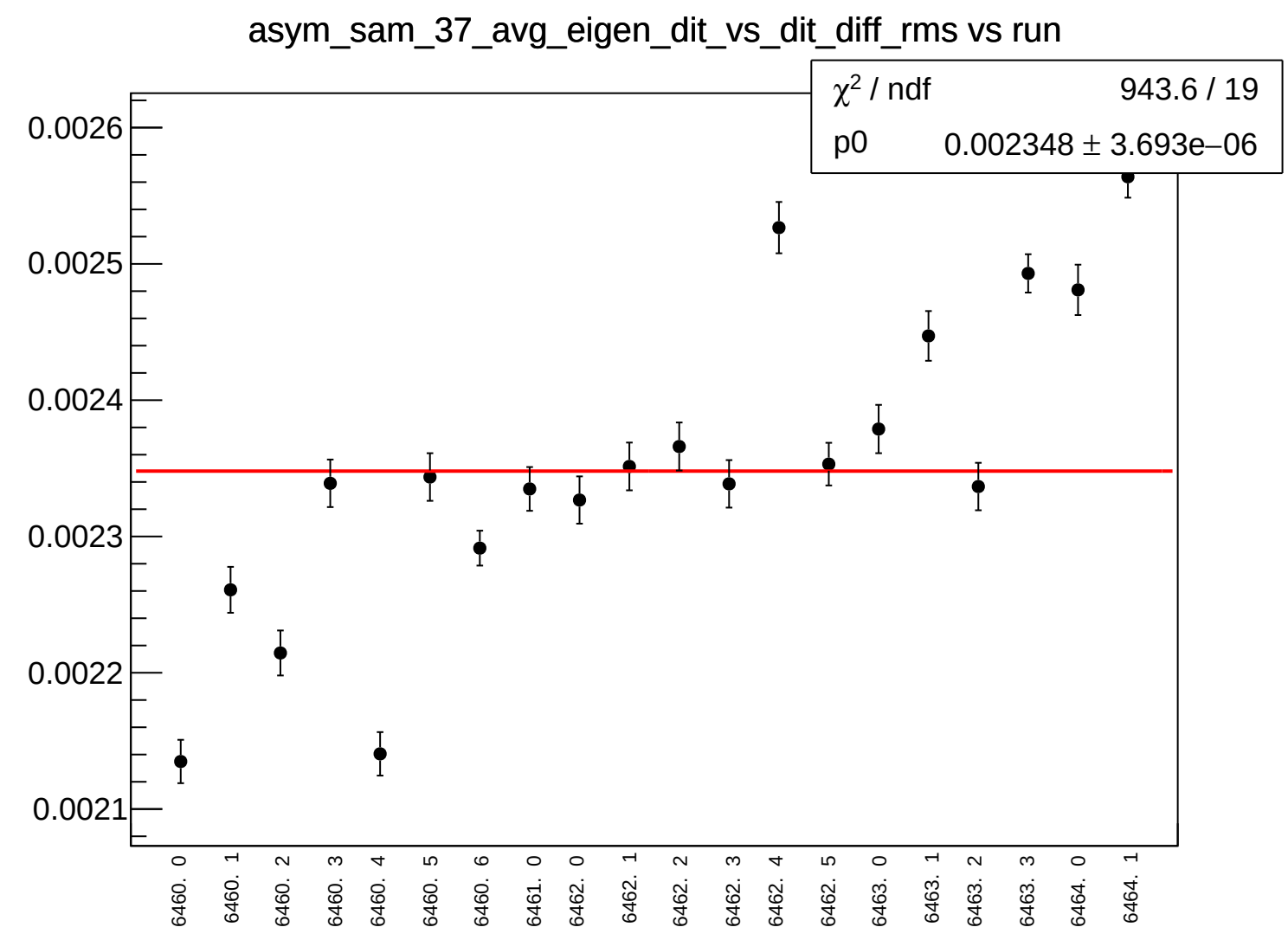

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.388e+04 / 19
p0 29.58 ± 0.04729
50
45
40
35
30
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

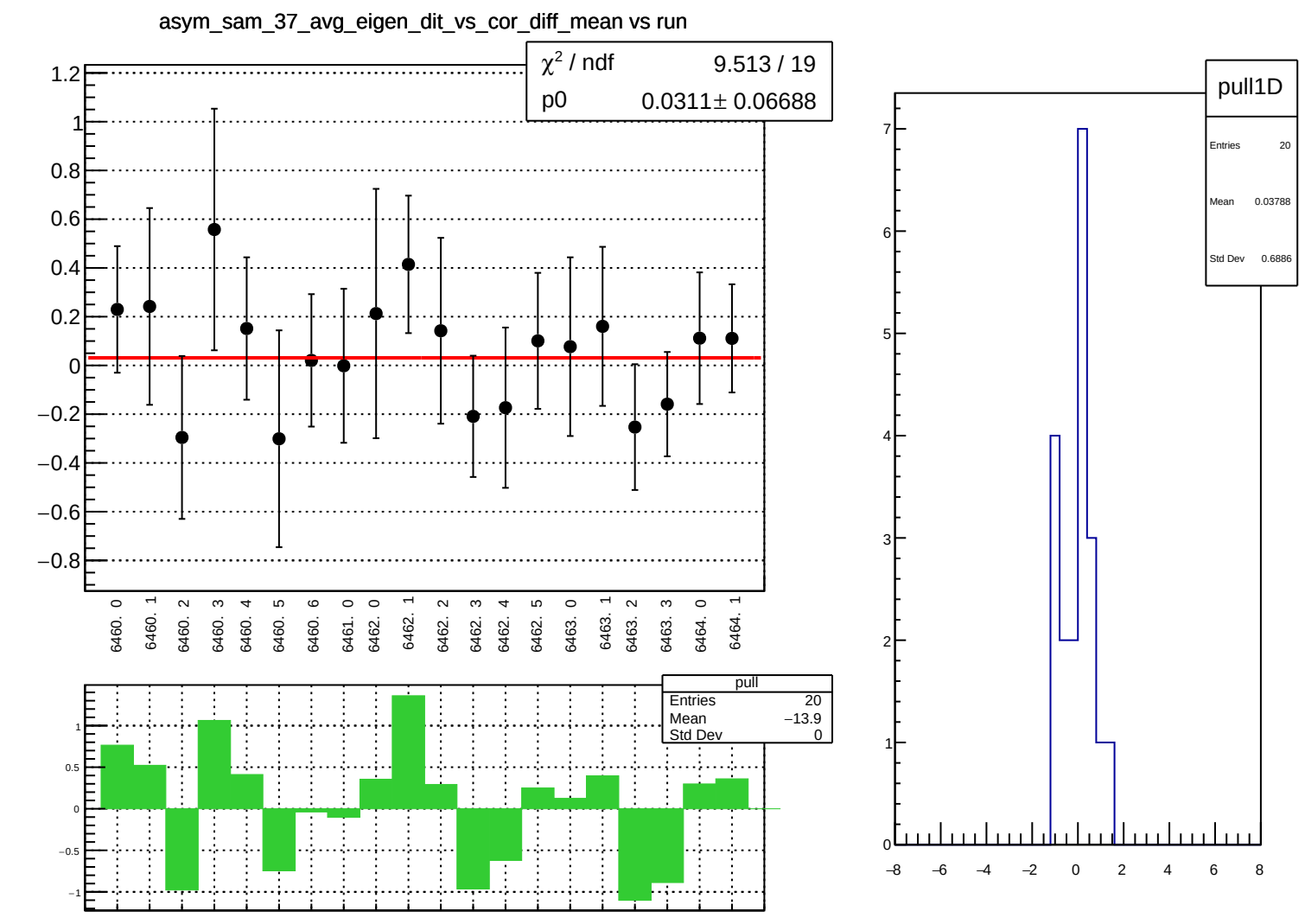

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 9.513 / 19
p0 0.03111 ± 0.06688
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −13.91
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03788
Std Dev 0.6886
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

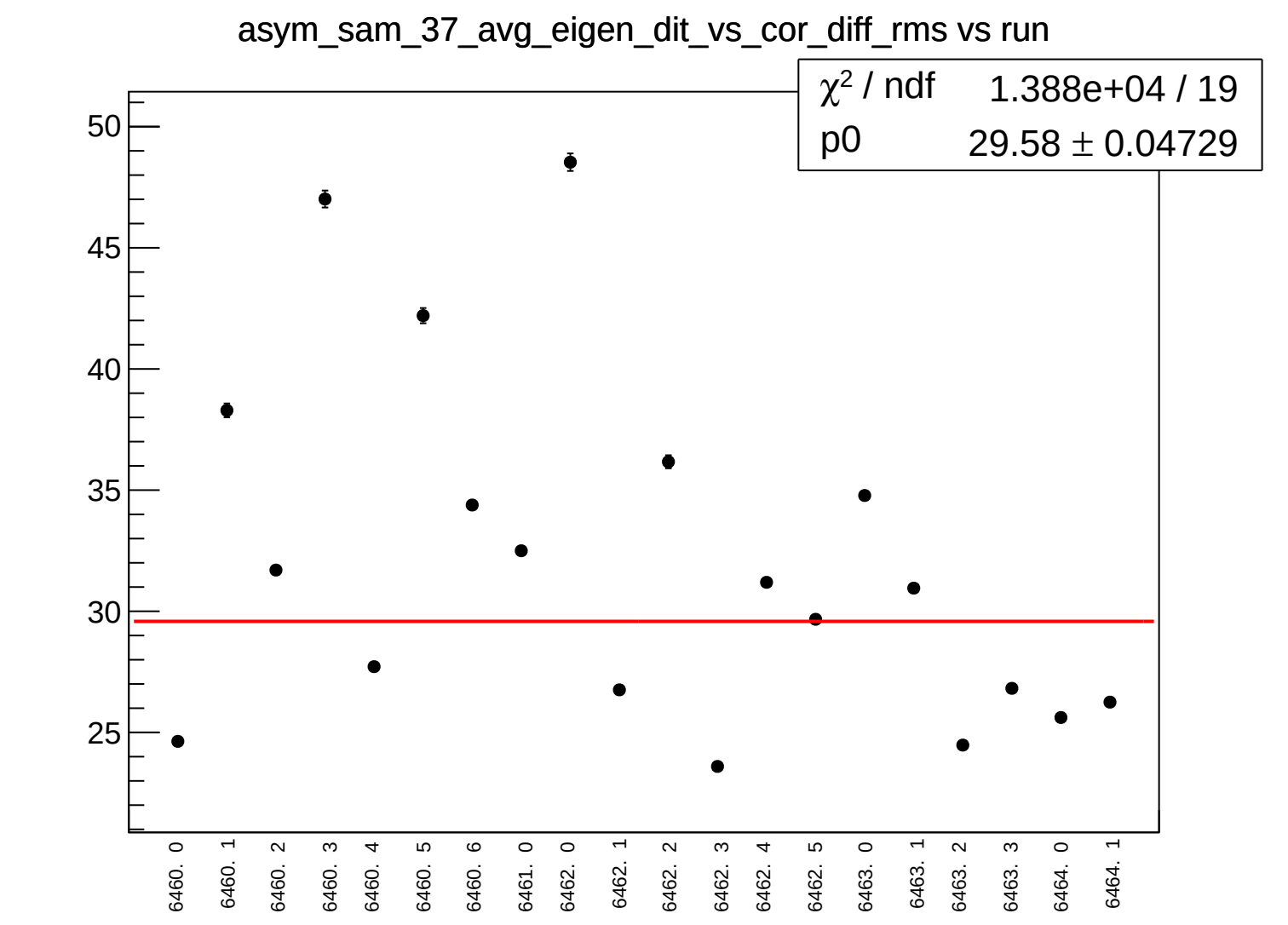

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.388e+04 / 19
p0 29.58 ± 0.04729
50
45
40
35
30
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

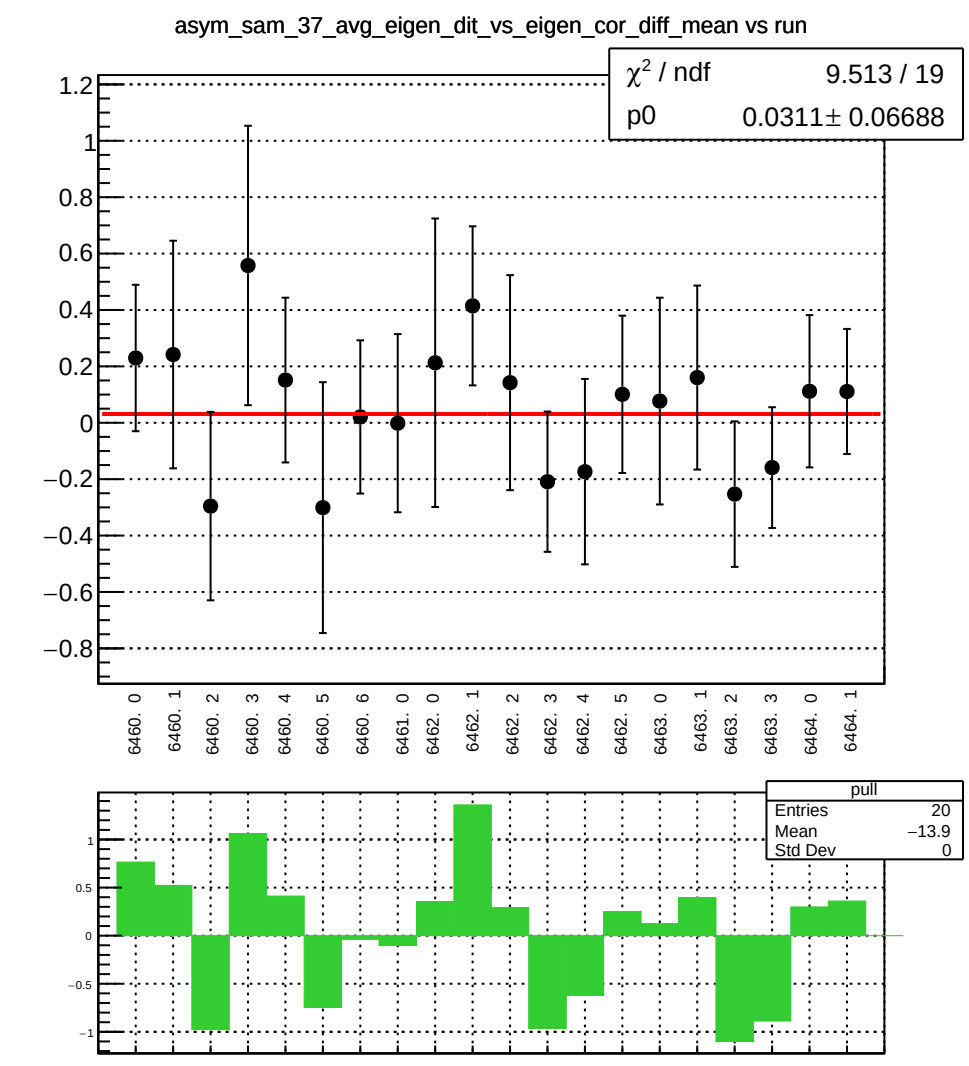

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.68 / 19
p0 −5.834e−06 ± 5.222e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

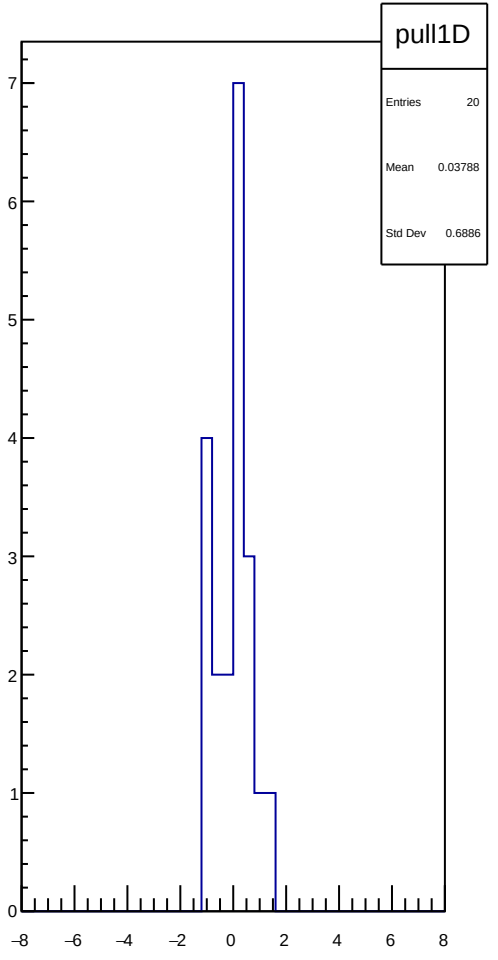

pull1D
Entries 20
Mean 0.03333
Std Dev 0.7955
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

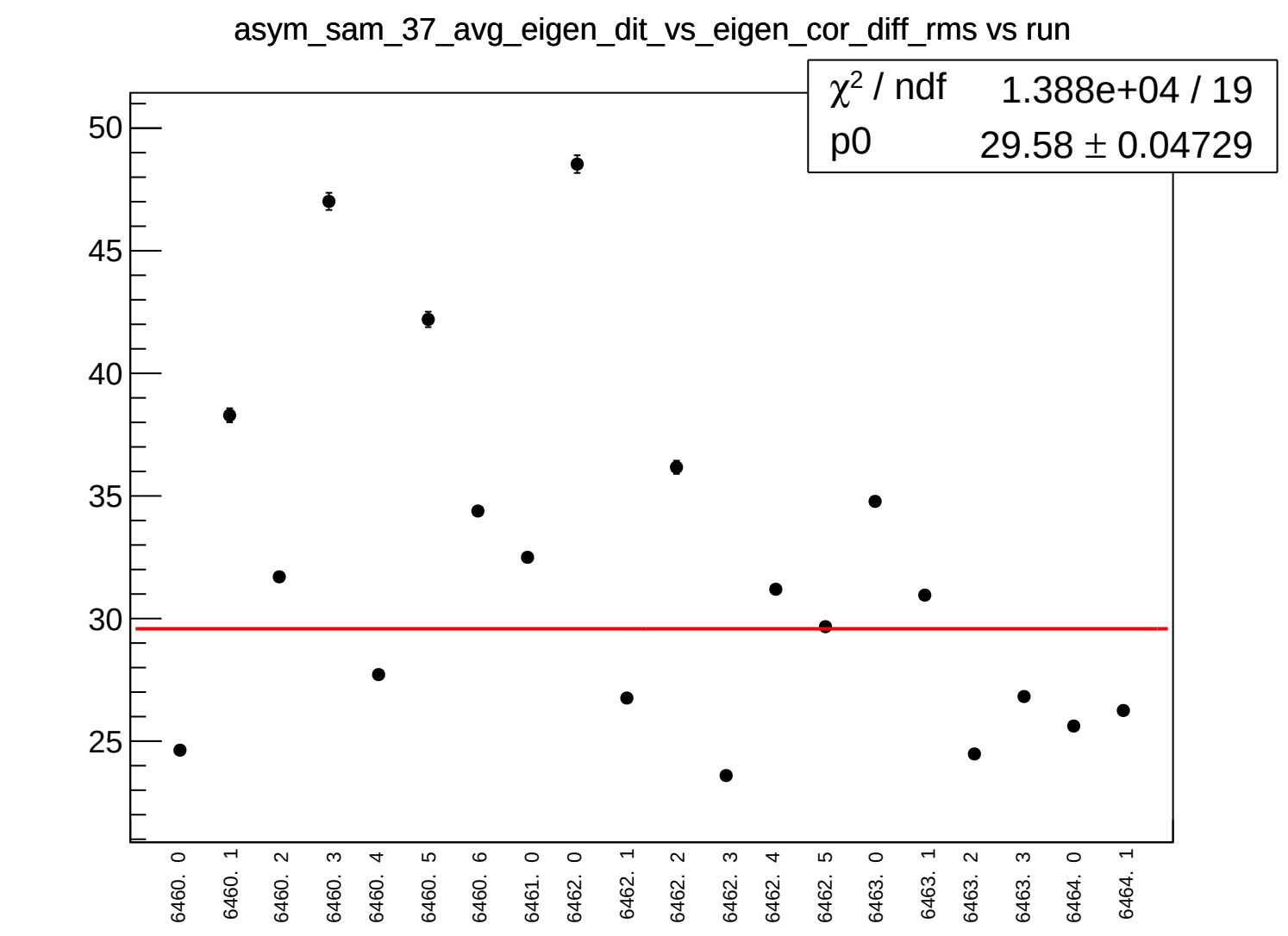

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 943.6 / 19
p0 0.002348 ± 3.693e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

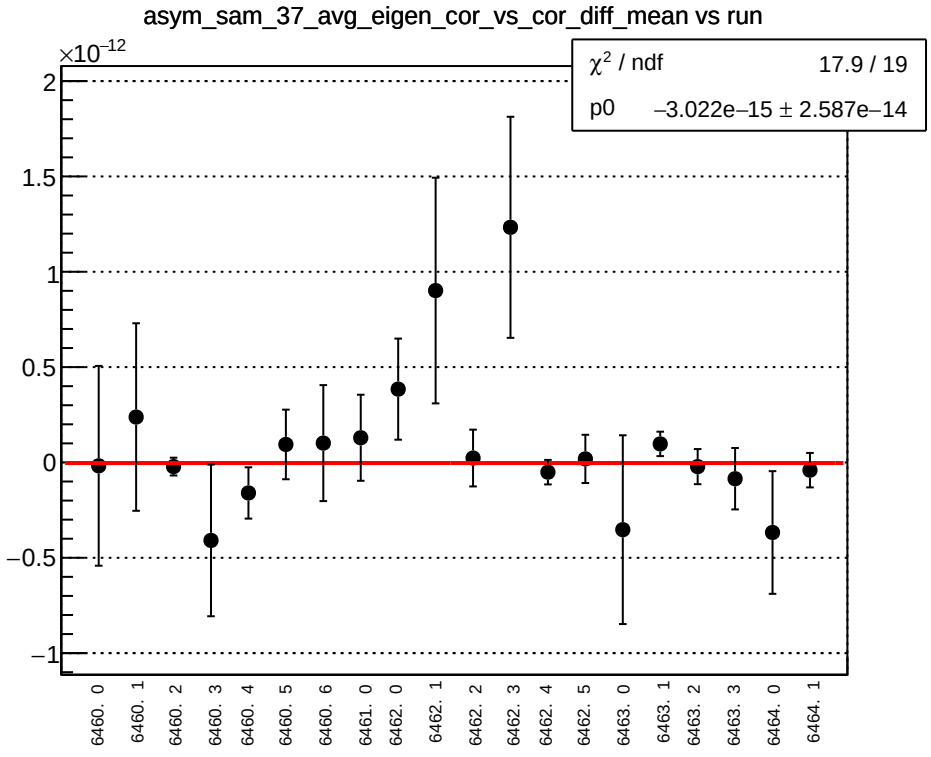

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 9.513 / 19
p0 0.0311± 0.06688
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −13.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03788
Std Dev 0.6886
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

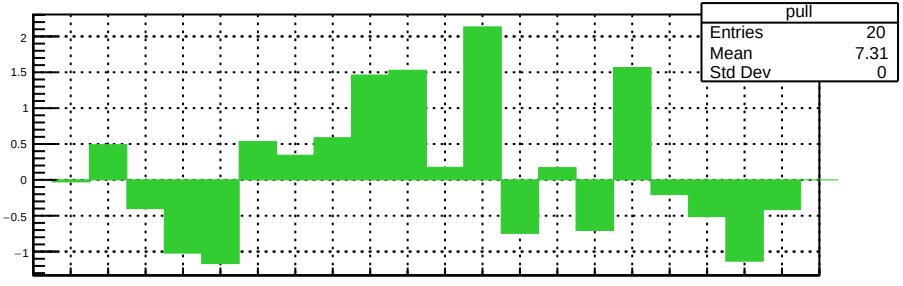

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.388e+04 / 19
p0 29.58 ± 0.04729
50
45
40
35
30
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

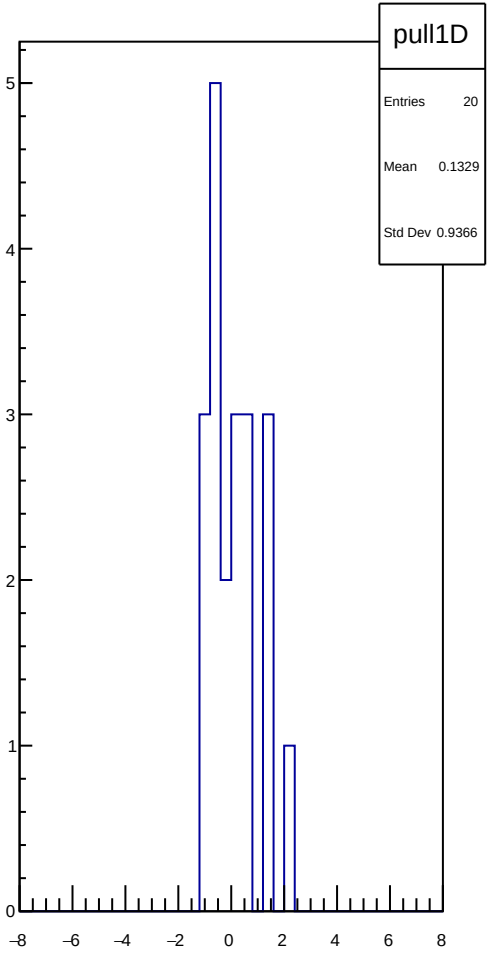

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 9.513 / 19
p0 0.0311± 0.06688
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −13.9
Std Dev 0
1
0.5
0
−0.5
−1

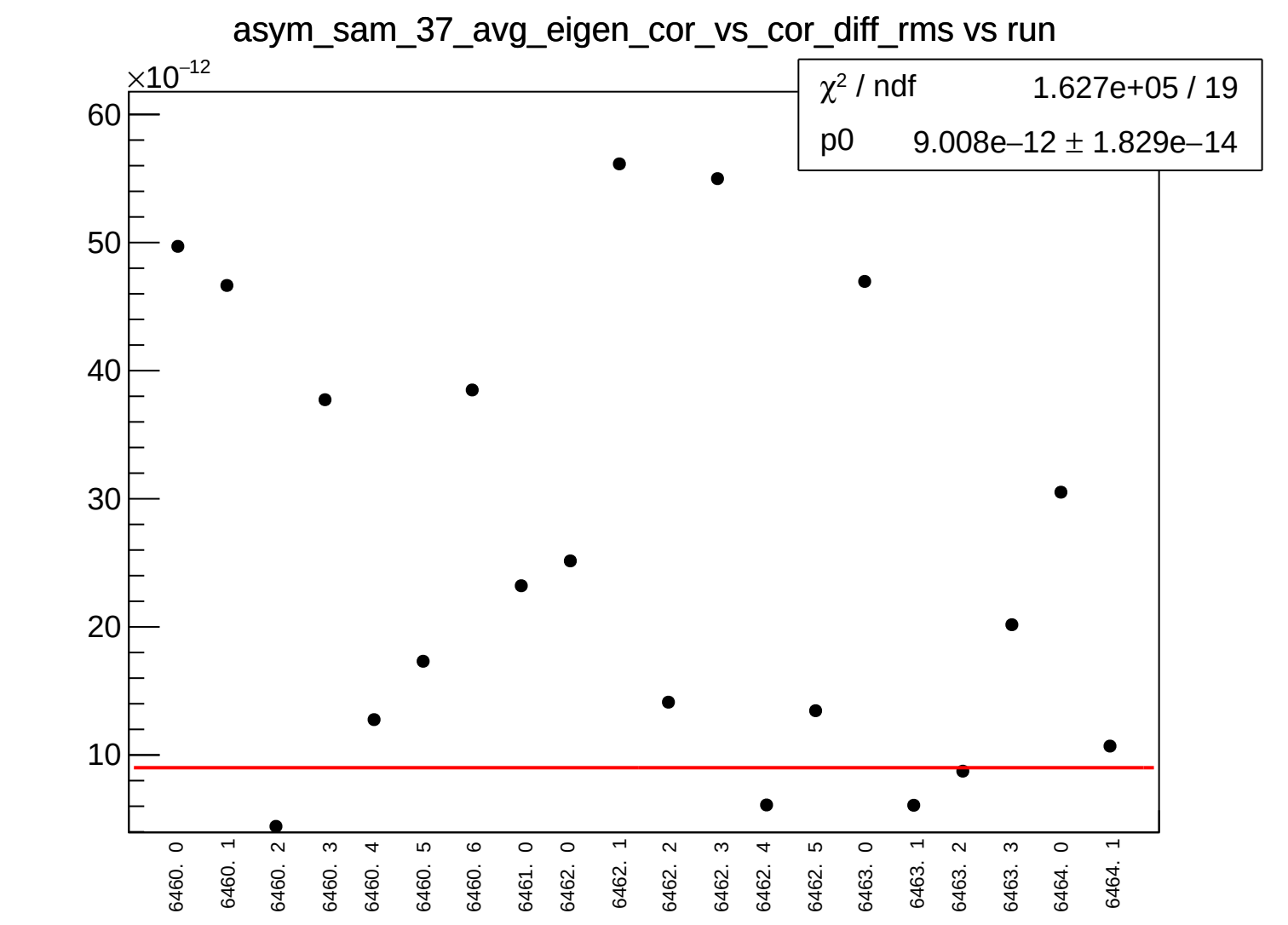

pull1D
Entries 20
Mean 0.03788
Std Dev 0.6886
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

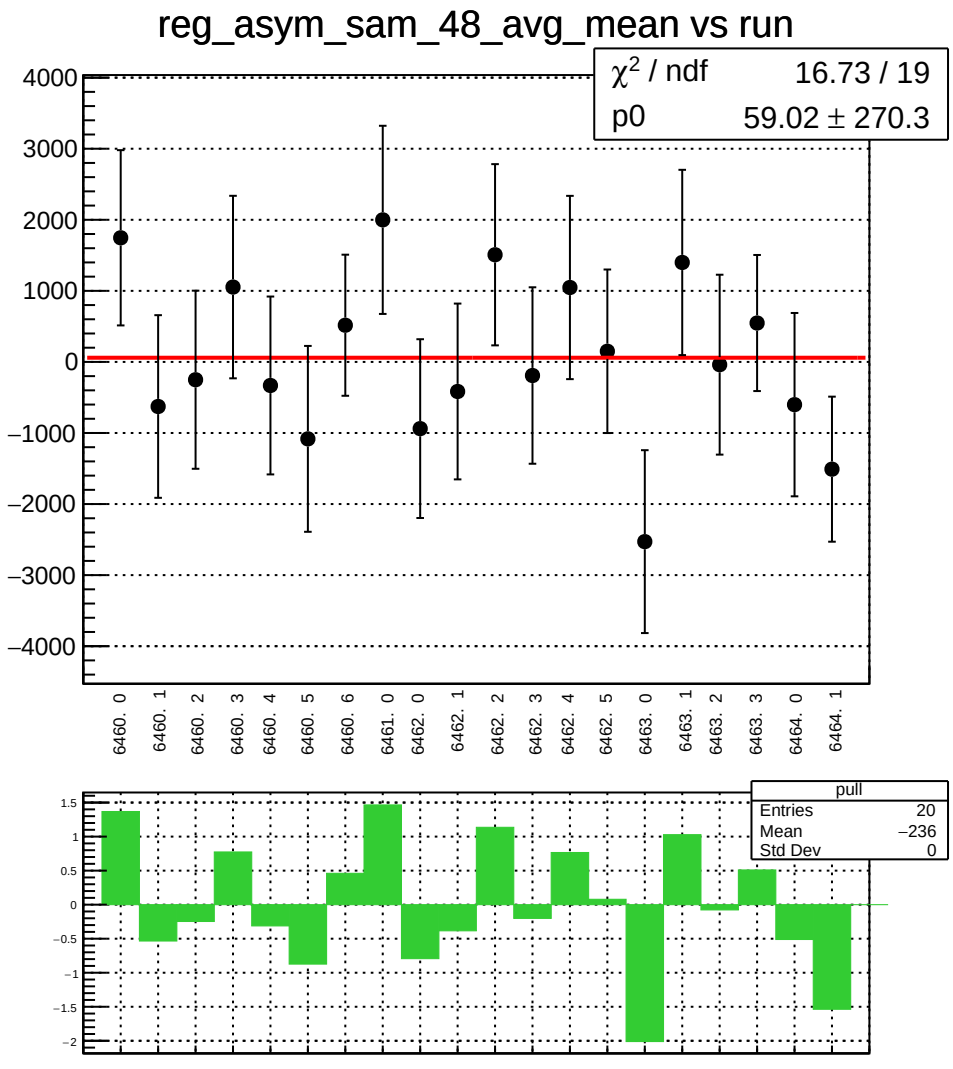

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.388e+04 / 19
p0 29.58 ± 0.04729
50
45
40
35
30
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

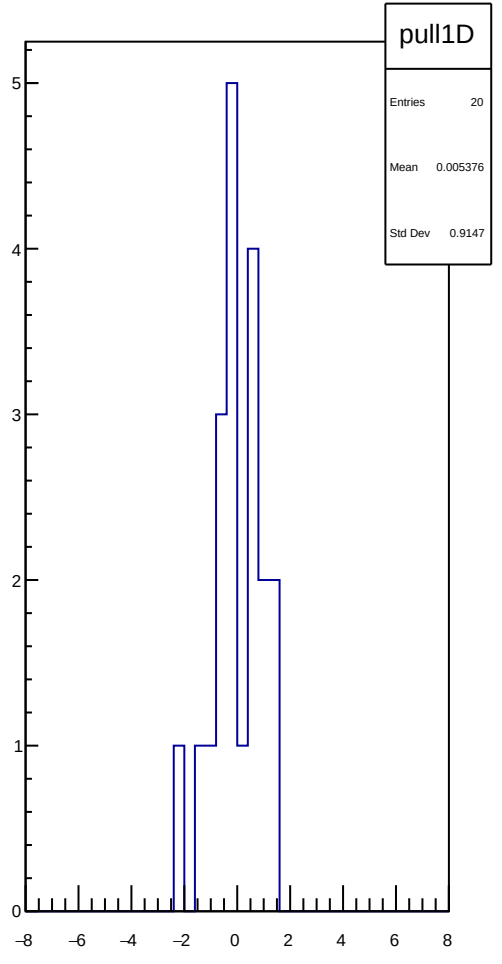

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 17.9 / 19
p0 −3.022e−15 ± 2.587e−14
2
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

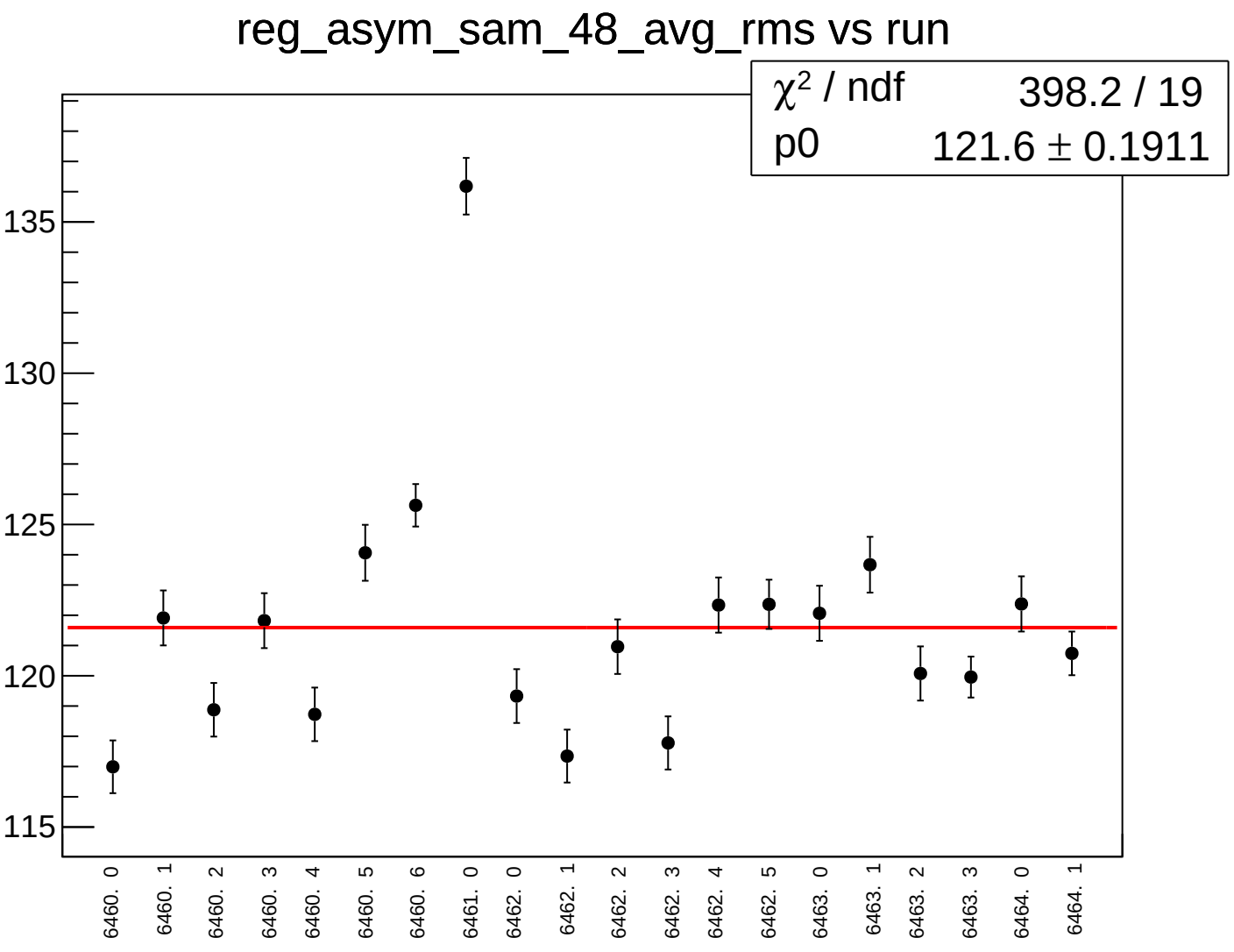

pull
Entries 20
Mean 7.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

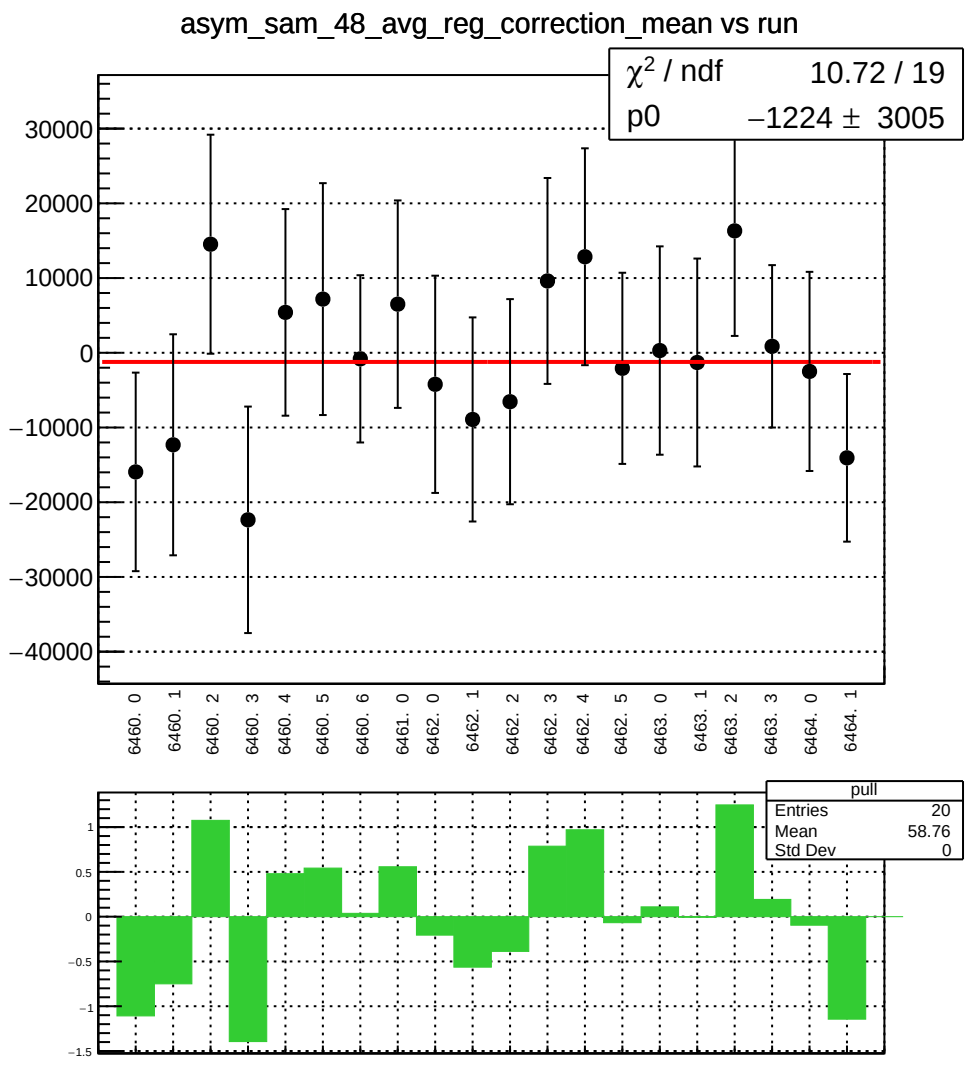

pull1D
Entries 20
Mean 0.1329
Std Dev 0.9366
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

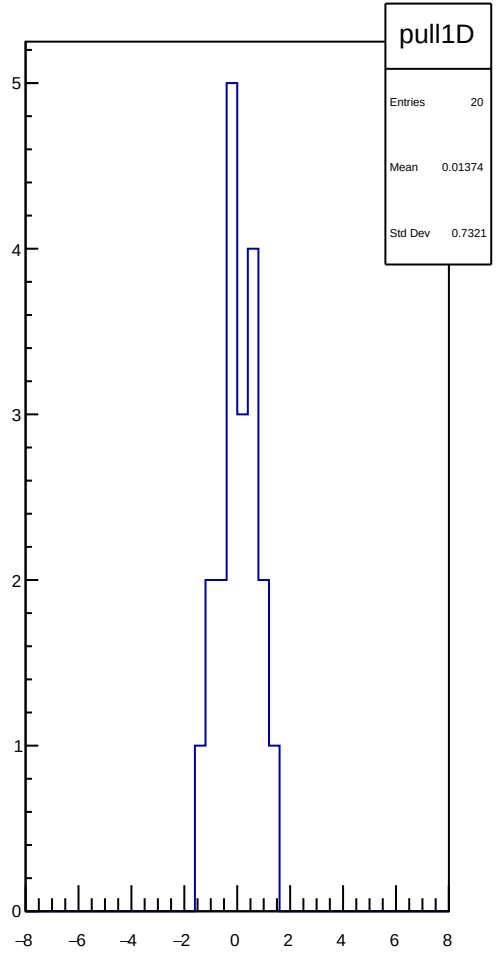

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.627e+05 / 19
p0 9.008e−12 ± 1.829e−14
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

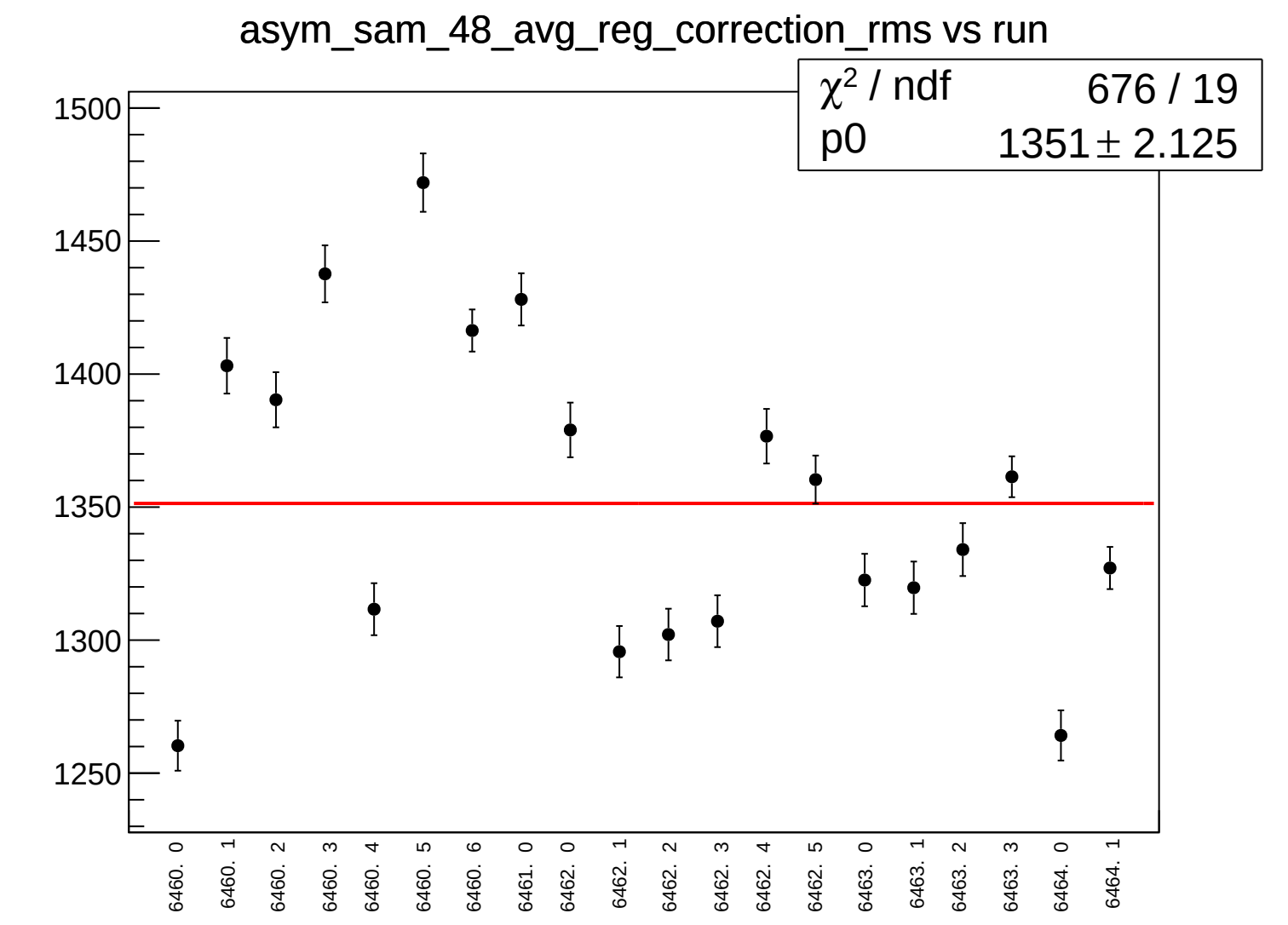

reg_asym_sam_48_avg_mean vs run
χ² / ndf 16.73 / 19
p0 59.02 ± 270.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −236
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

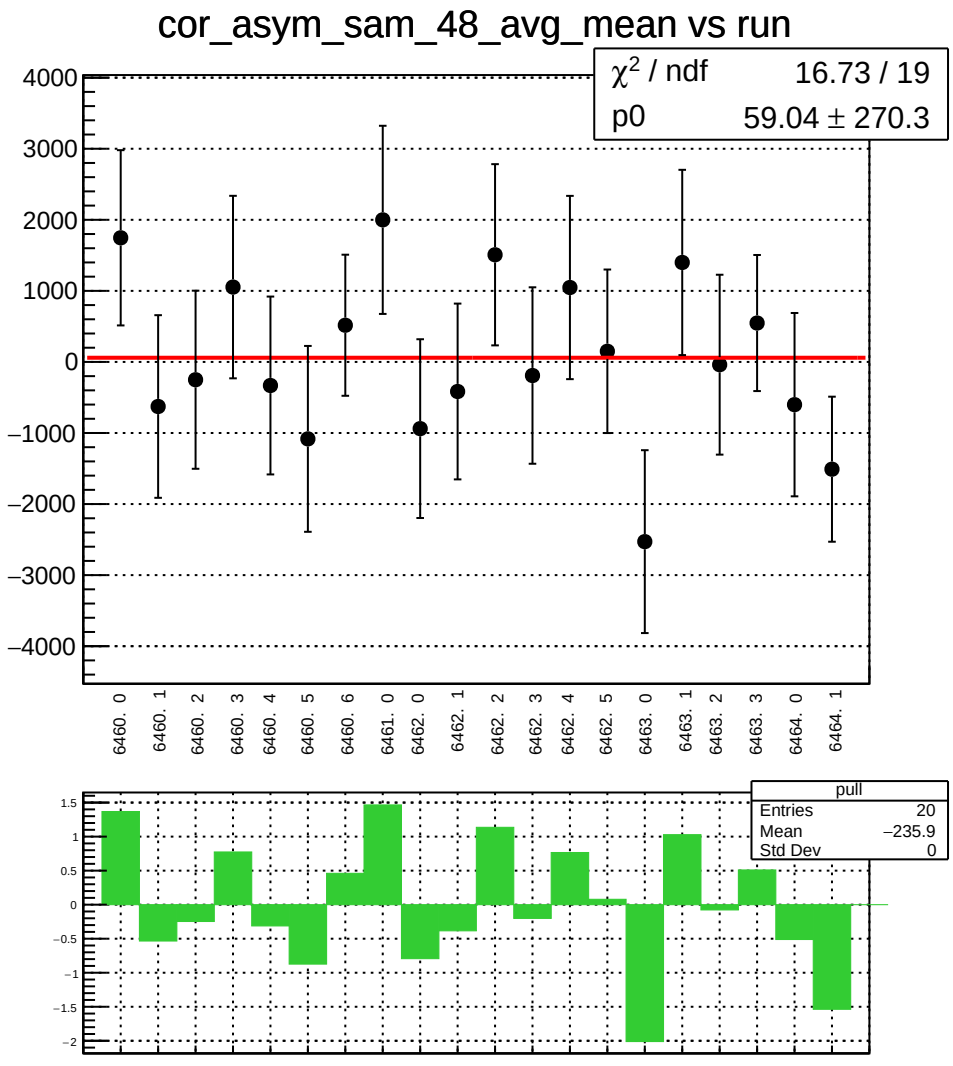

pull1D
Entries 20
Mean 0.005376
Std Dev 0.9147
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_avg_rms vs run
χ² / ndf 398.2 / 19
p0 121.6 ± 0.1911
135
130
125
120
115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 10.72 / 19
p0 −1224 ± 3005
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean 0.01374
Std Dev 0.7321
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 676 / 19
p0 1351 ± 2.125
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


cor_asym_sam_48_avg_mean vs run
χ² / ndf 16.73 / 19
p0 59.04 ± 270.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −235.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.00538
Std Dev 0.9147
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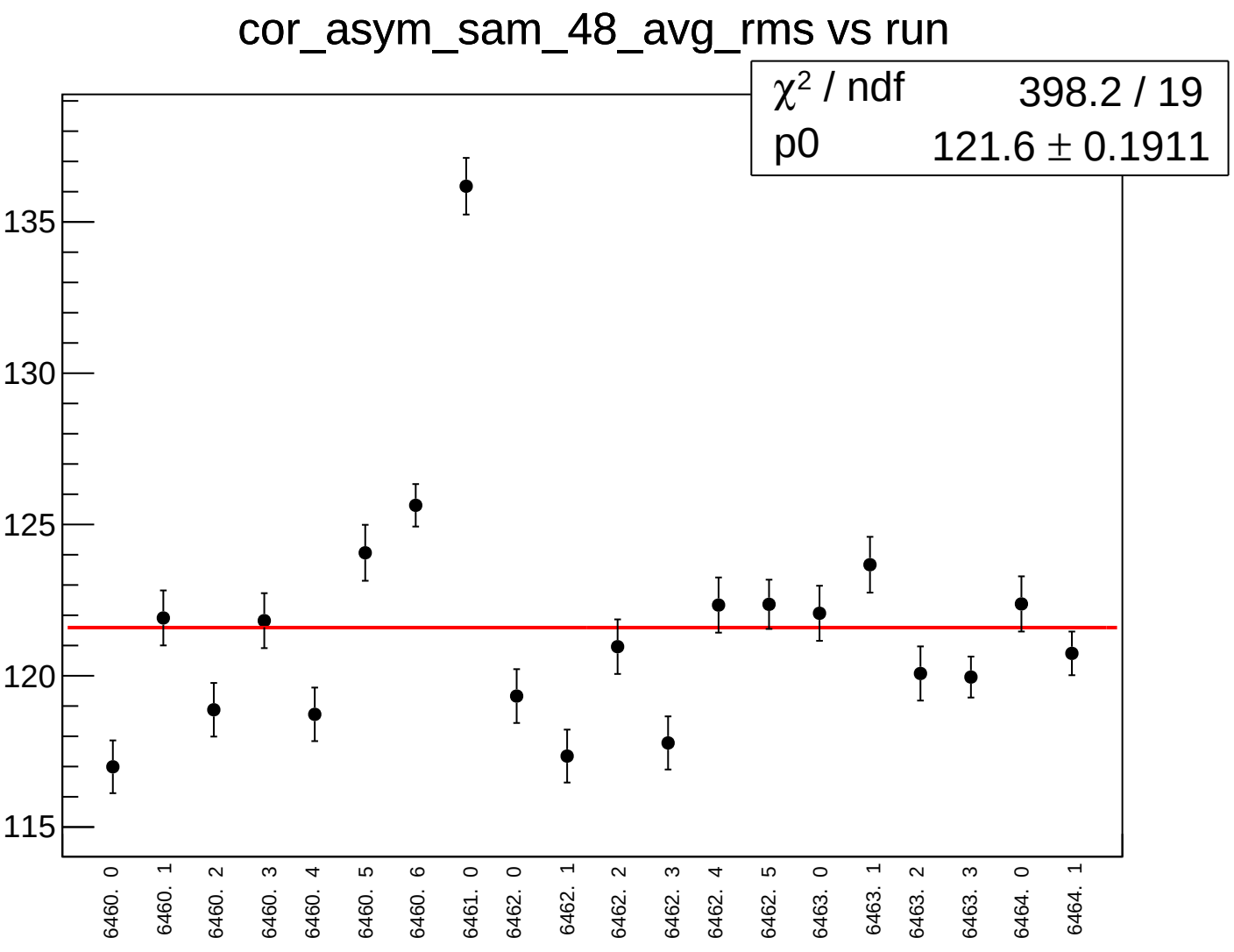
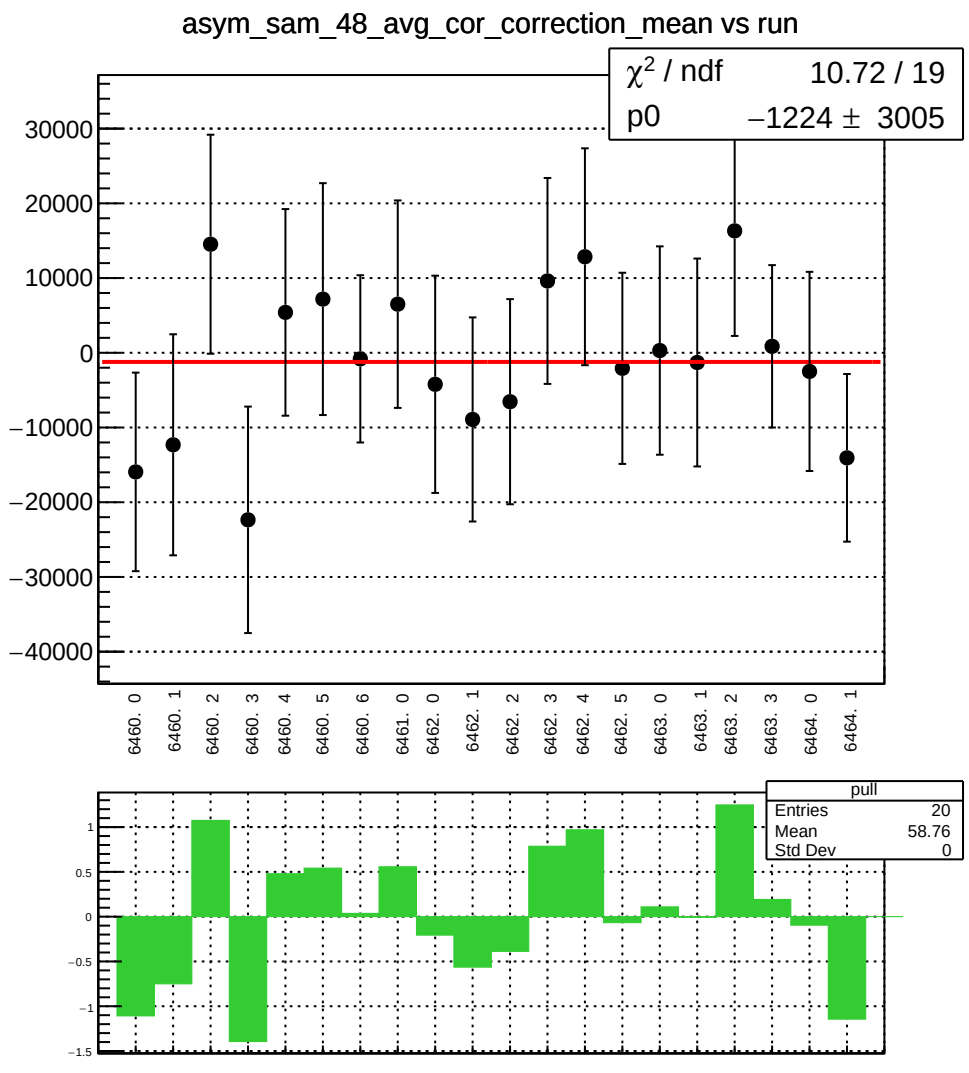
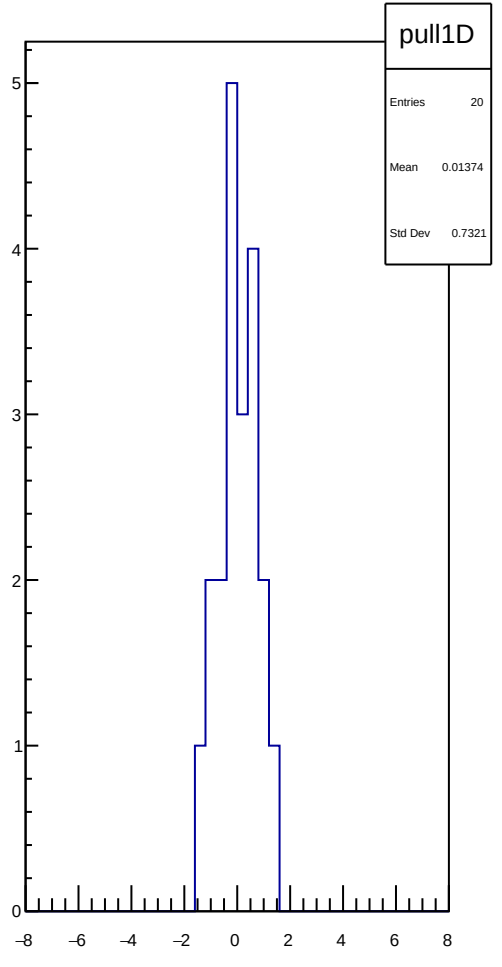
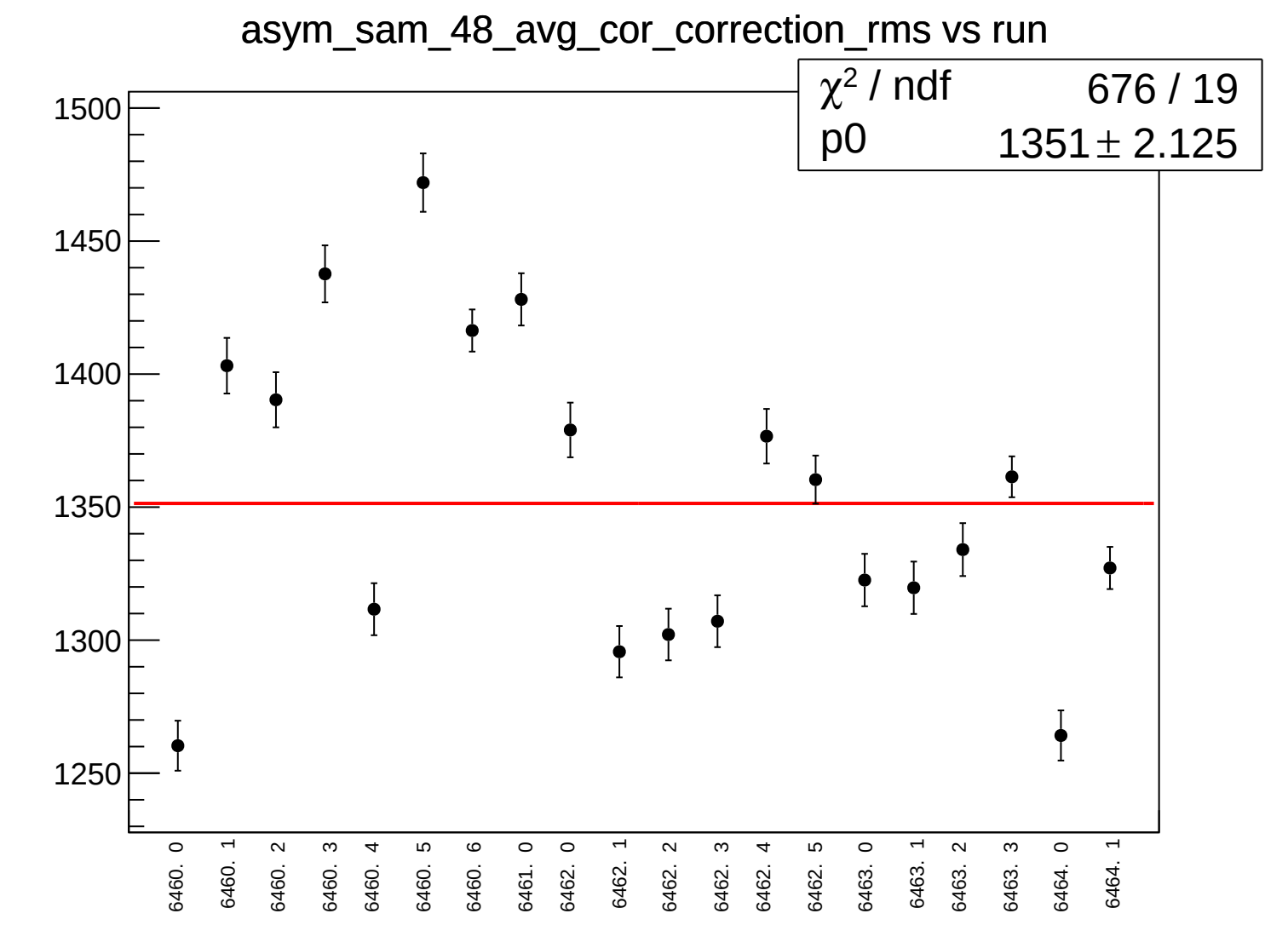
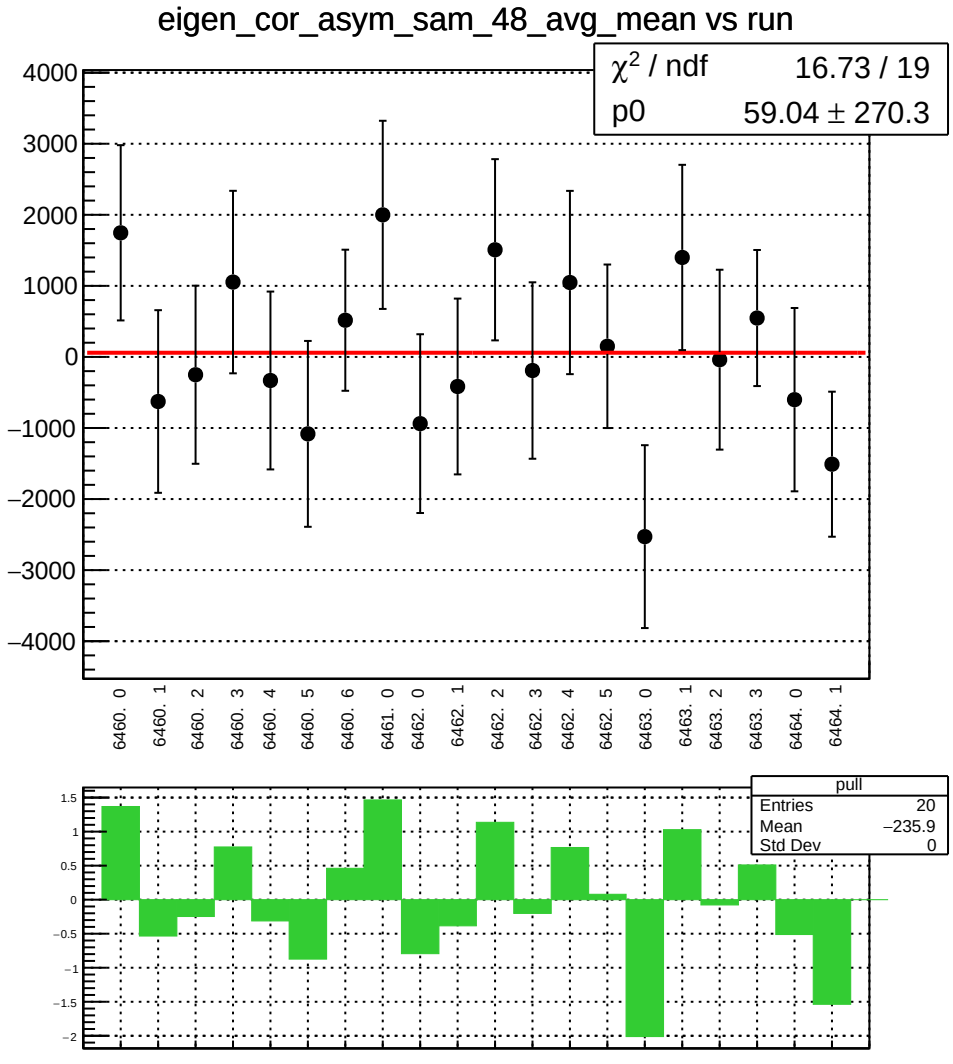
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

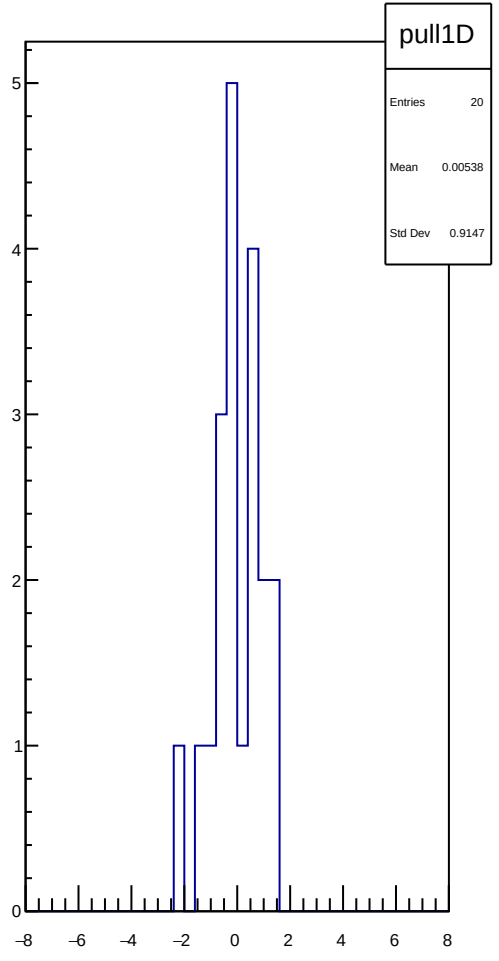

cor_asym_sam_48_avg_rms vs run
χ² / ndf 398.2 / 19
p0 121.6 ± 0.1911
135
130
125
120
115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

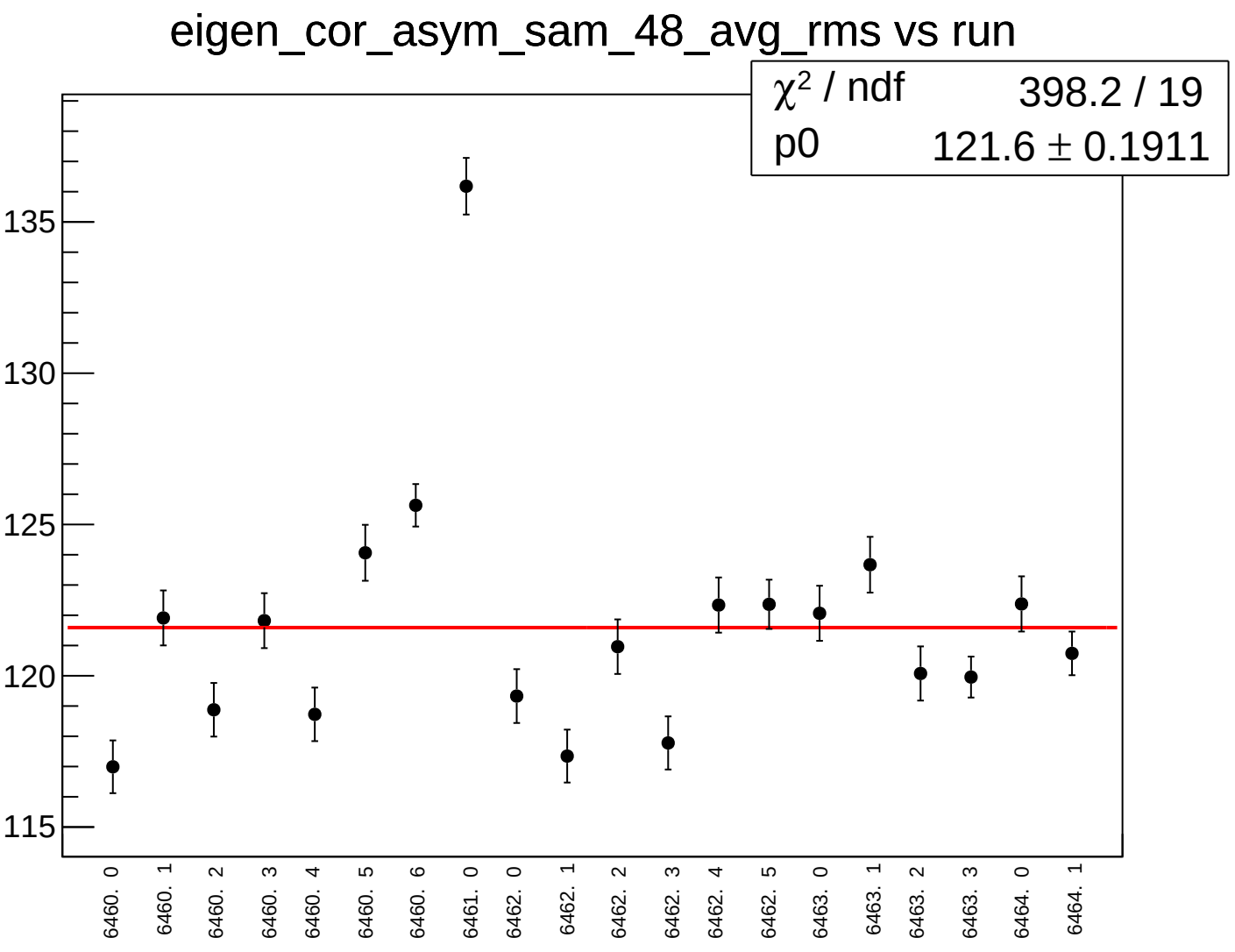

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 10.72 / 19
p0 −1224 ± 3005
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

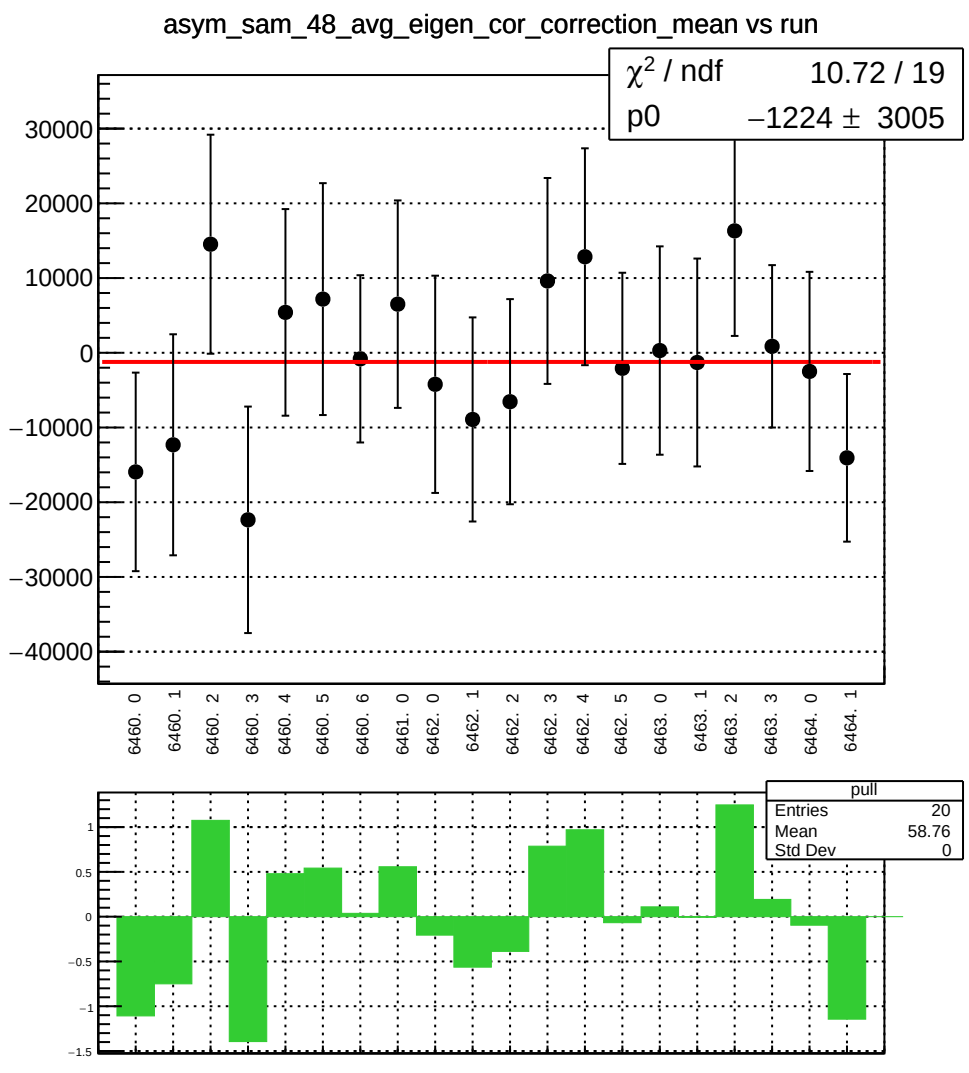

pull1D
Entries 20
Mean 0.01374
Std Dev 0.7321
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

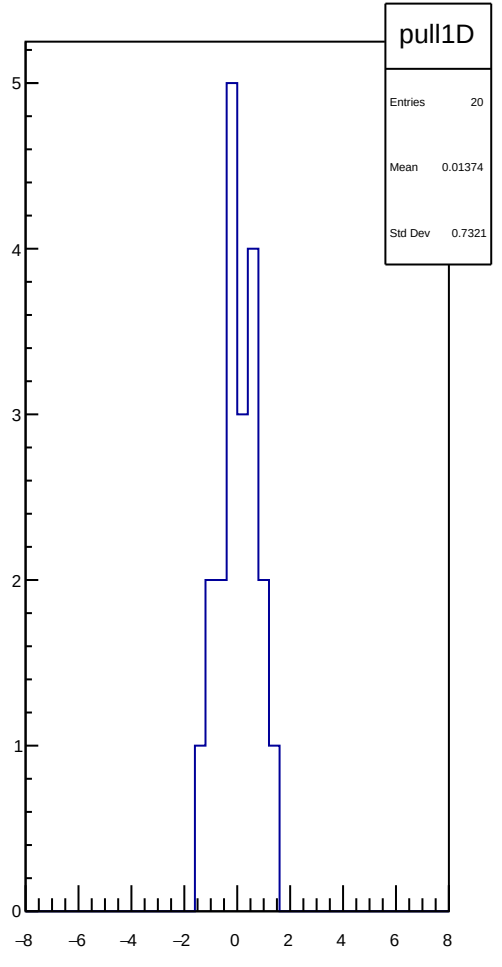

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 676 / 19
p0 1351 ± 2.125
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

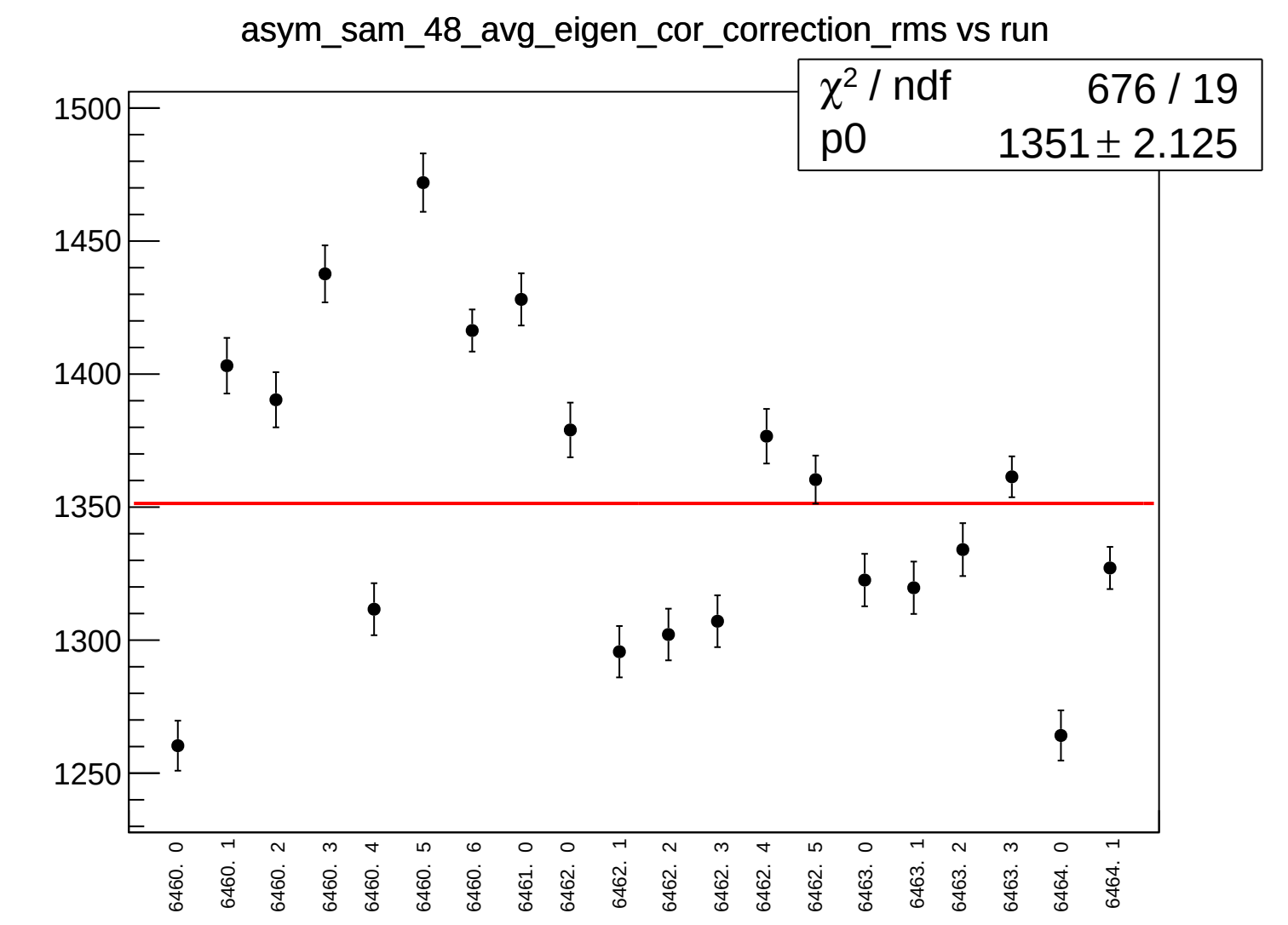

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 16.73 / 19
p0 59.04 ± 270.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −235.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

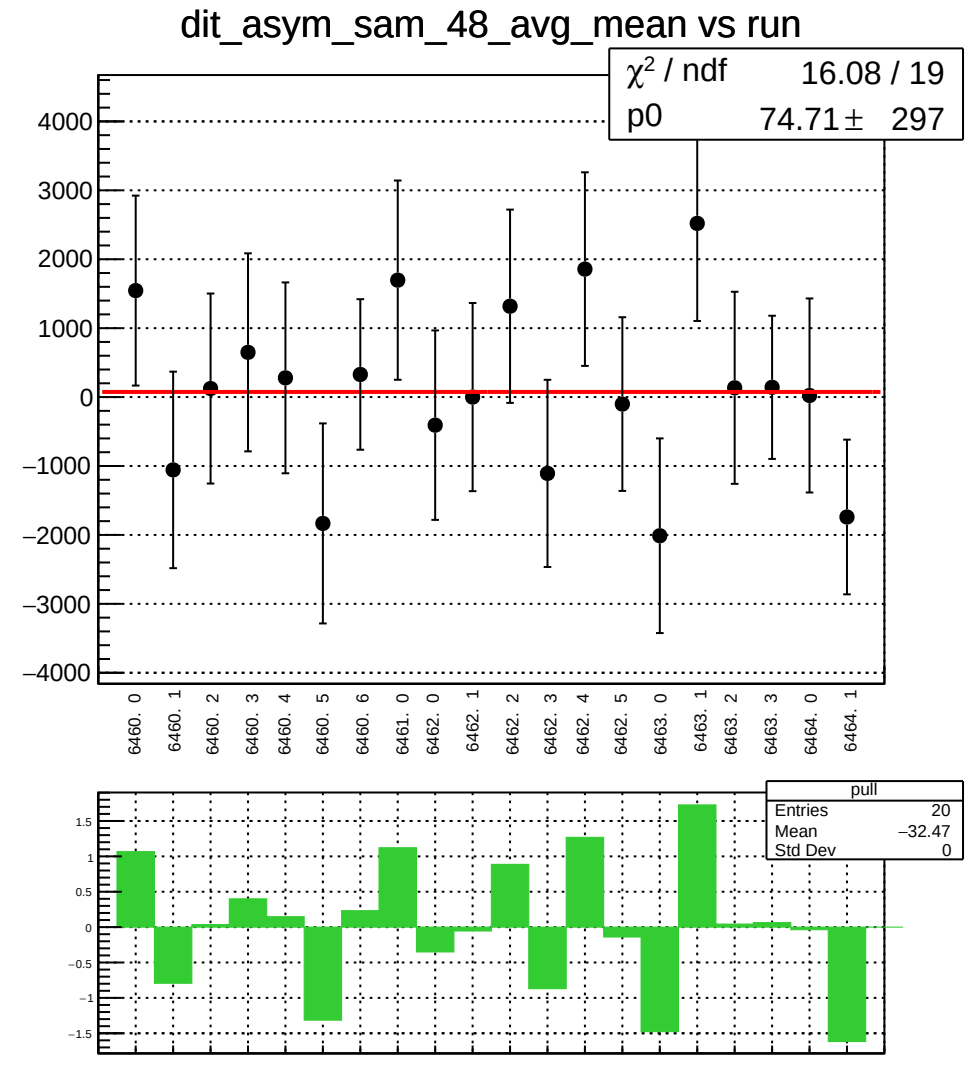

pull1D
Entries 20
Mean 0.00538
Std Dev 0.9147
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

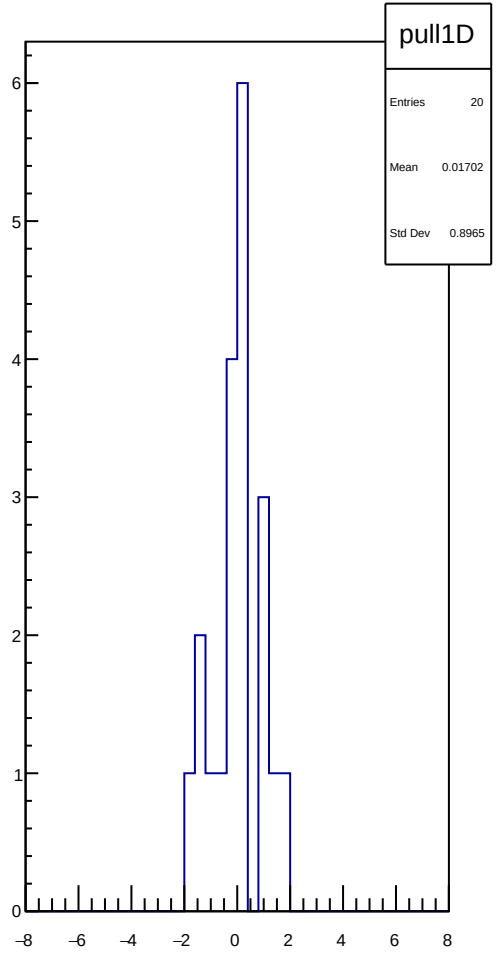

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 398.2 / 19
p0 121.6 ± 0.1911
135
130
125
120
115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

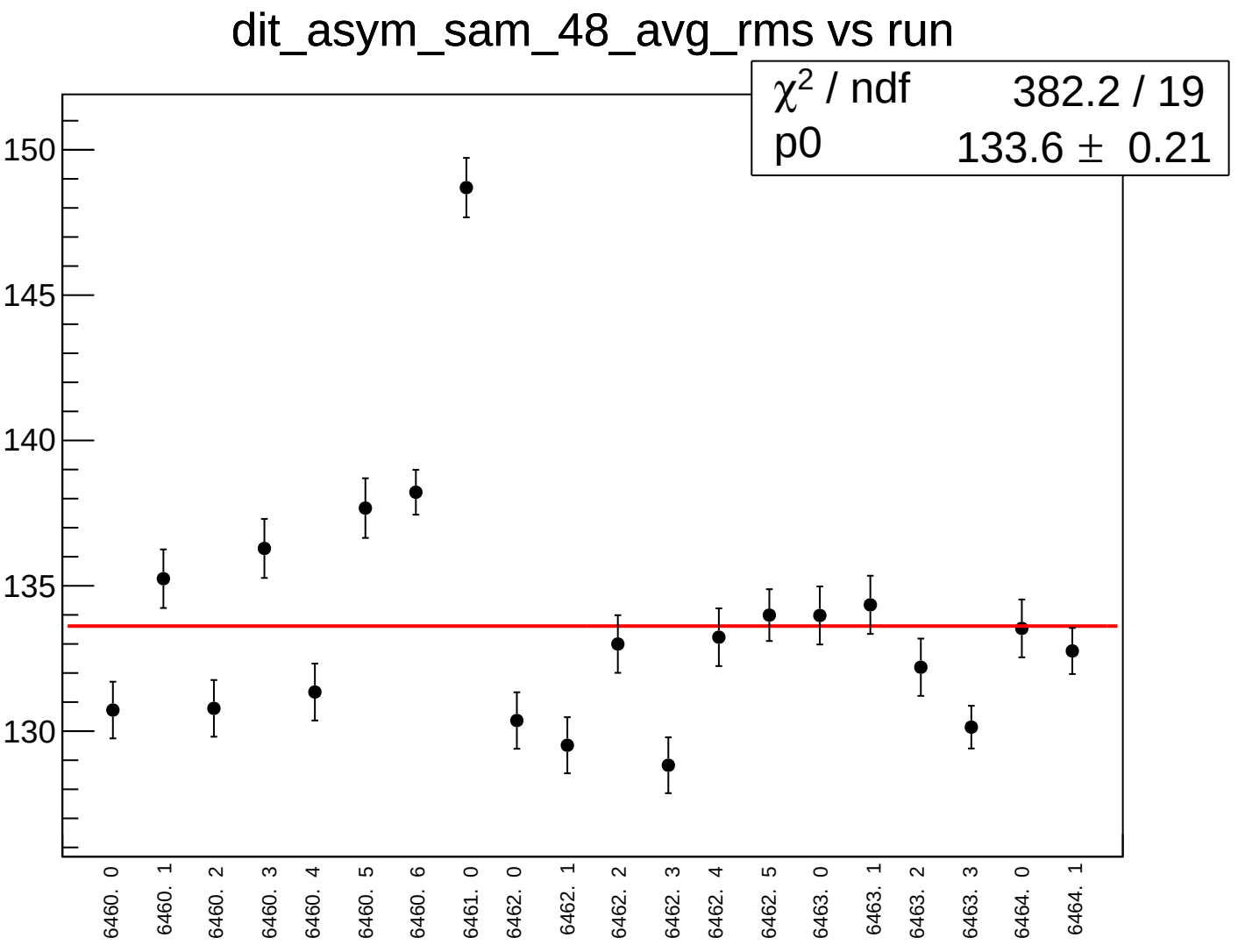

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.72 / 19
p0 −1224 ± 3005
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

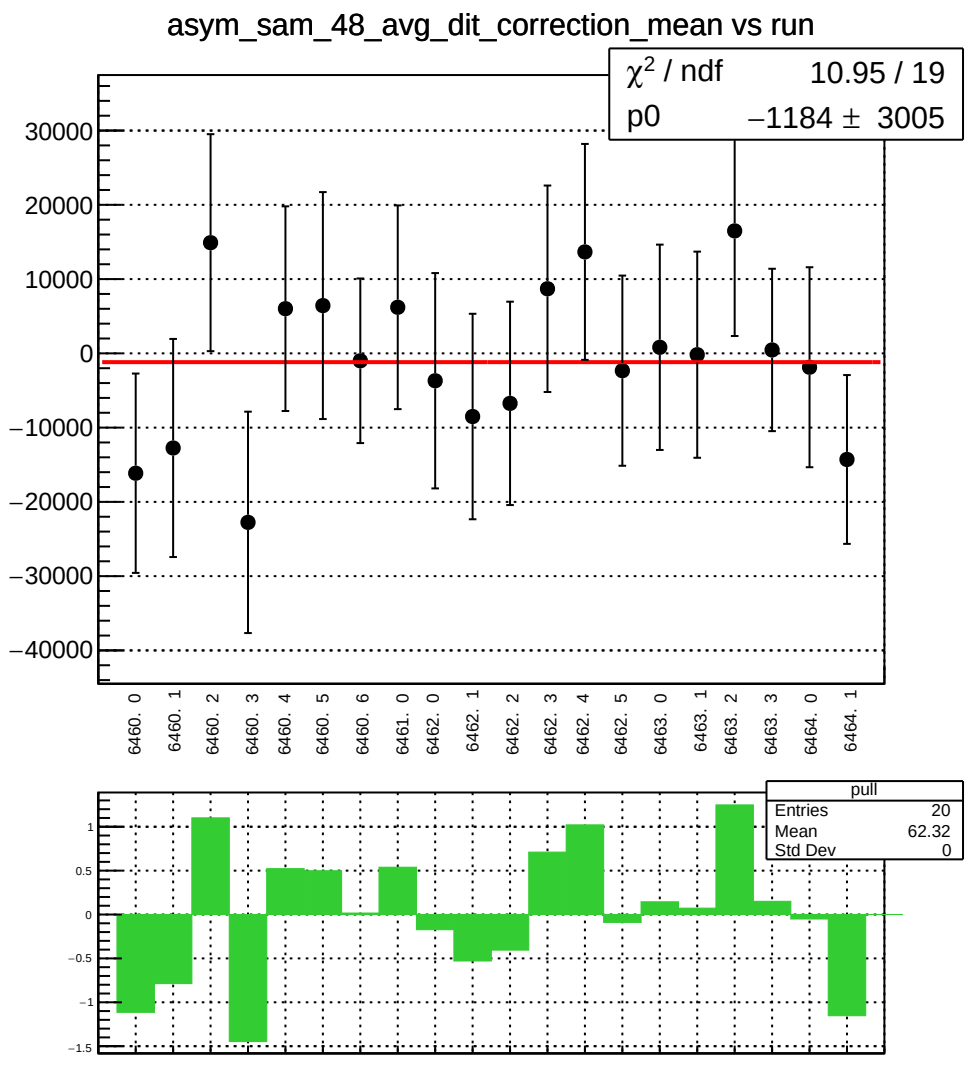

pull1D
Entries 20
Mean 0.01374
Std Dev 0.7321
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

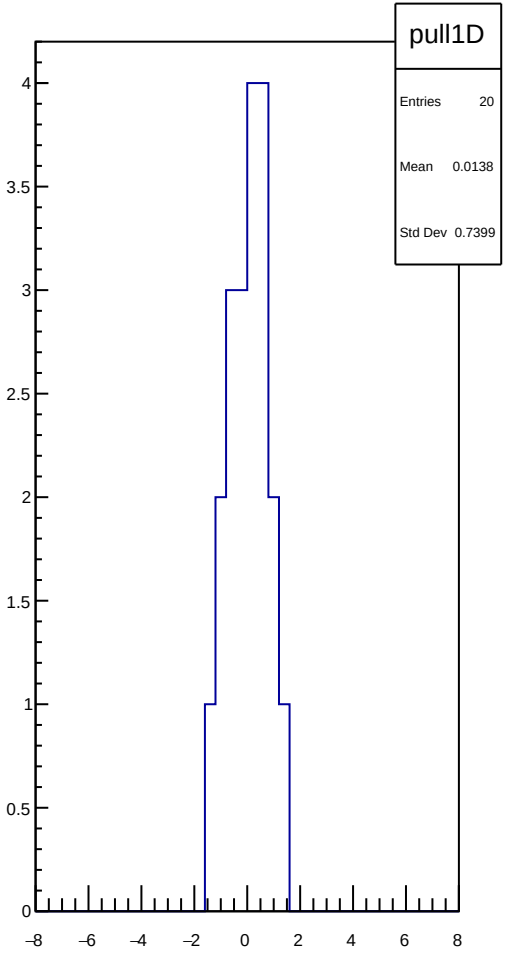

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 676 / 19
p0 1351 ± 2.125
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

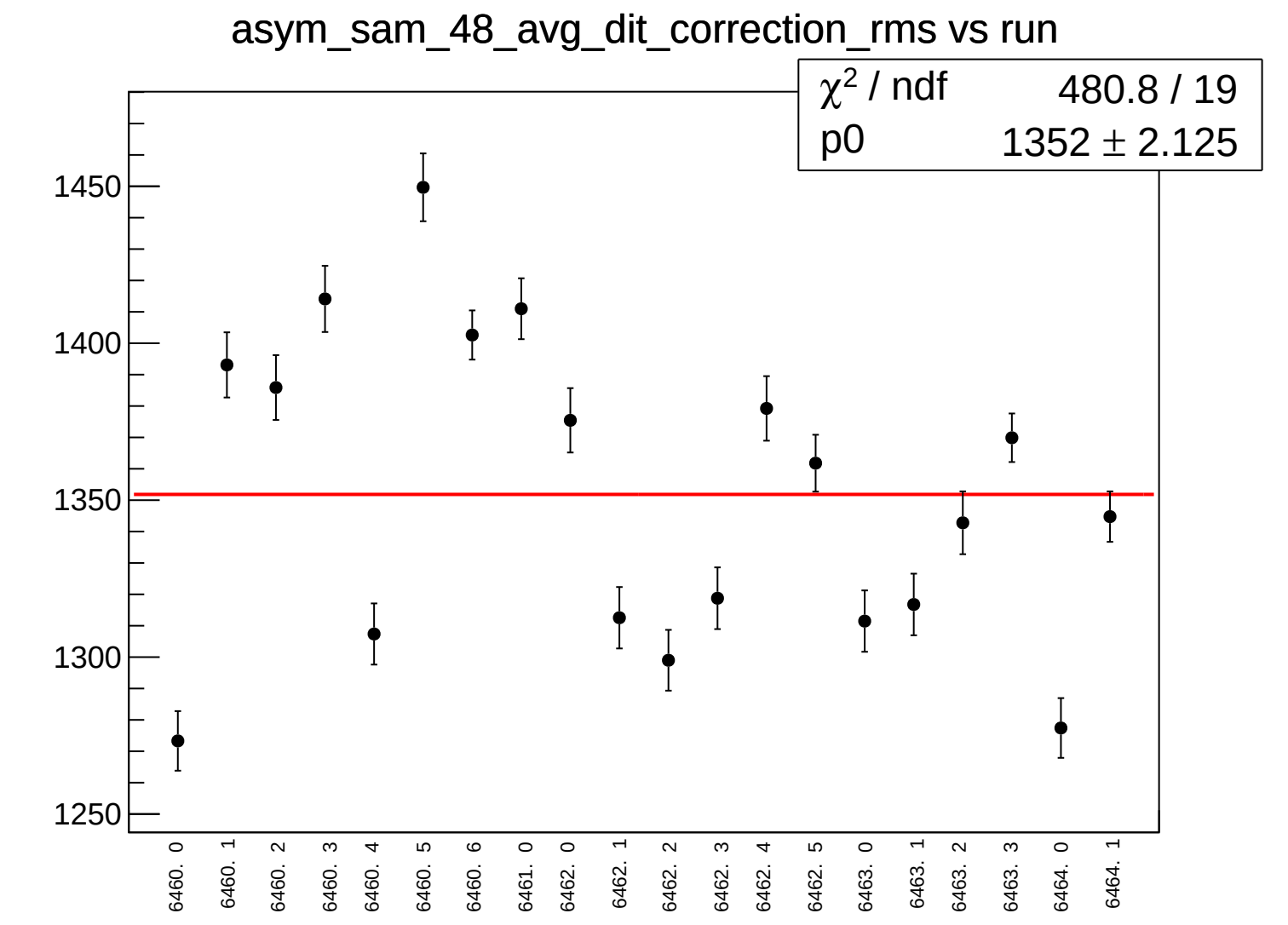

dit_asym_sam_48_avg_mean vs run
χ² / ndf 16.08 / 19
p0 74.71 ± 297
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −32.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

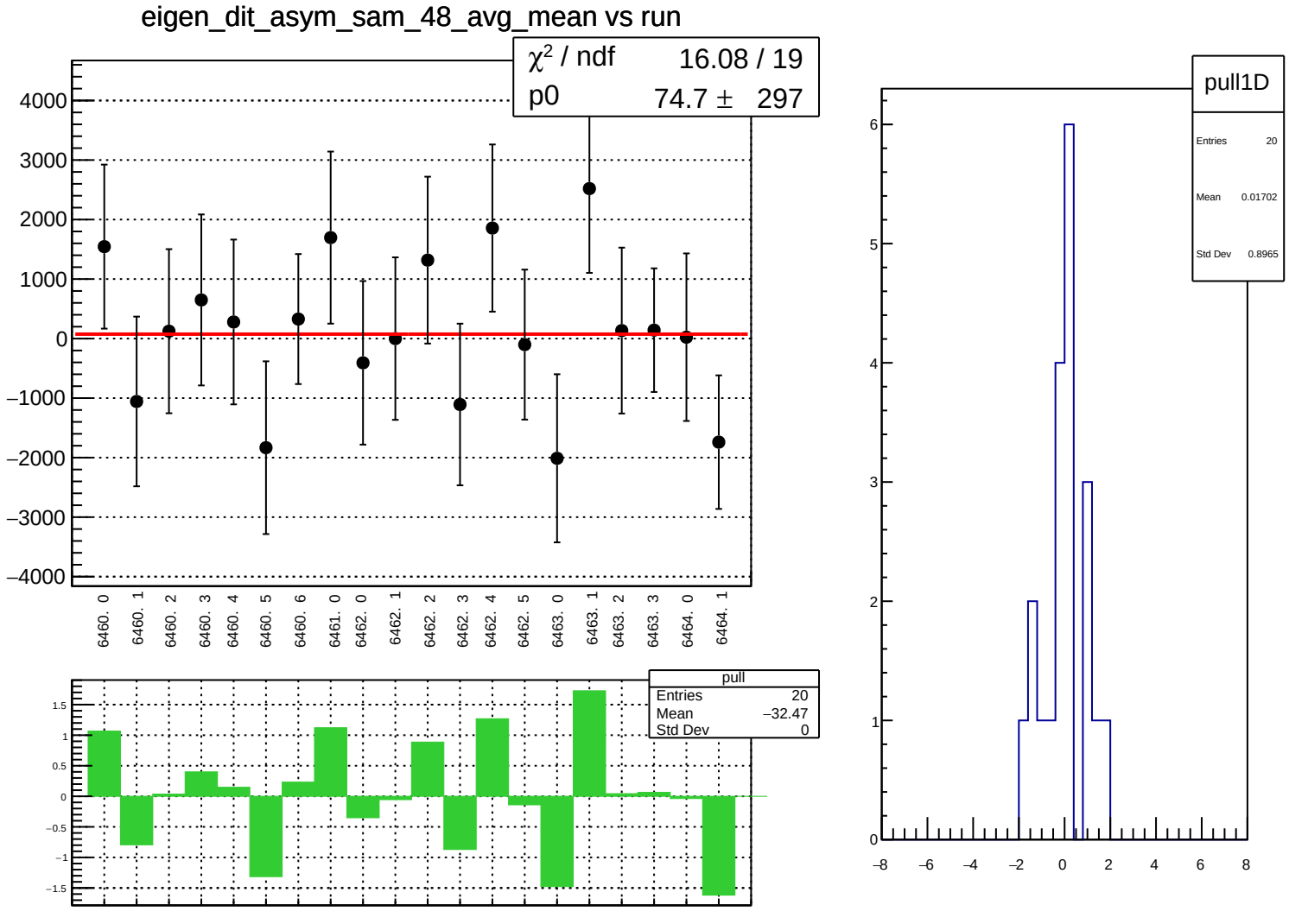

pull1D
Entries 20
Mean 0.01702
Std Dev 0.8965
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

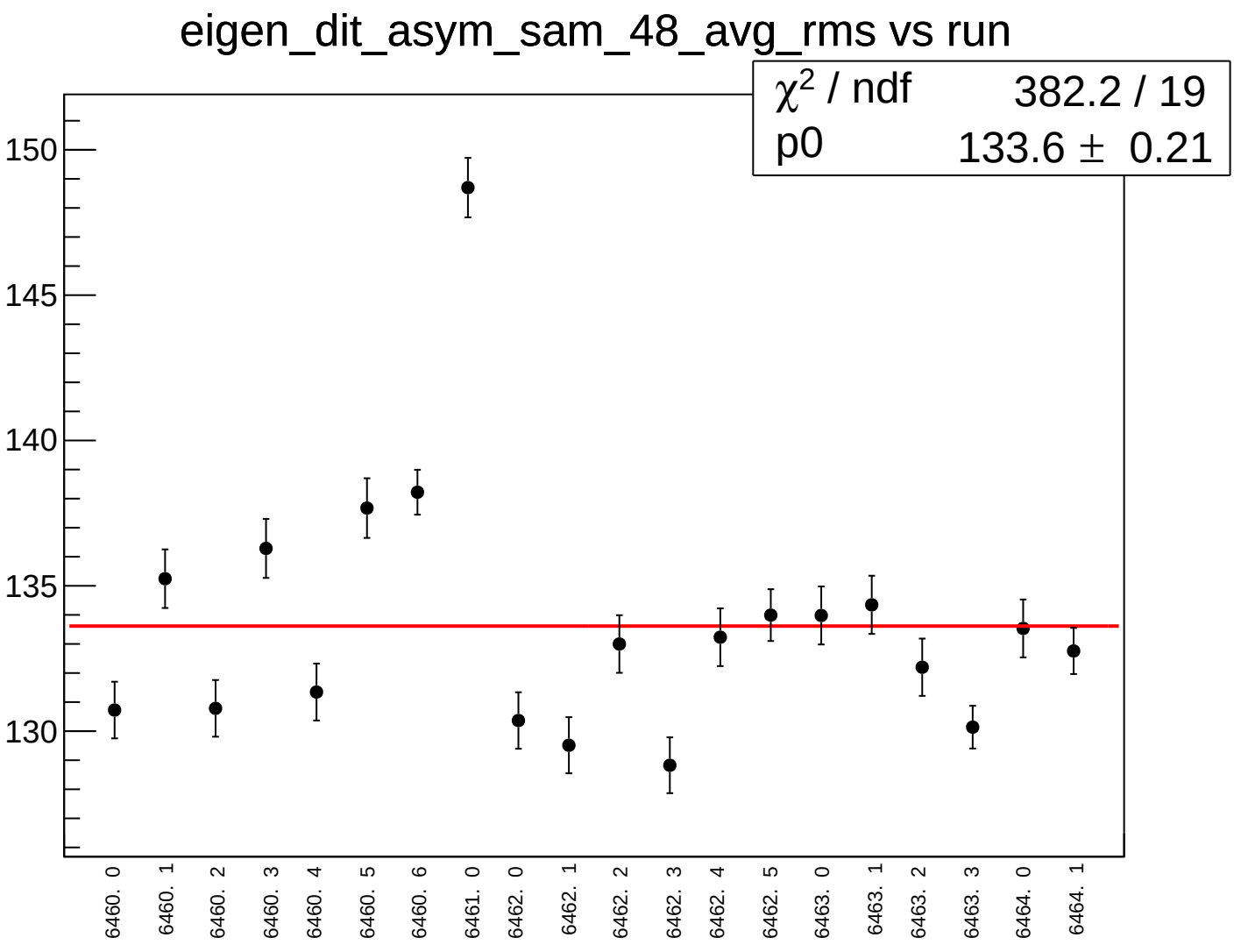

dit_asym_sam_48_avg_rms vs run
χ² / ndf 382.2 / 19
p0 133.6 ± 0.21
150
145
140
135
130
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

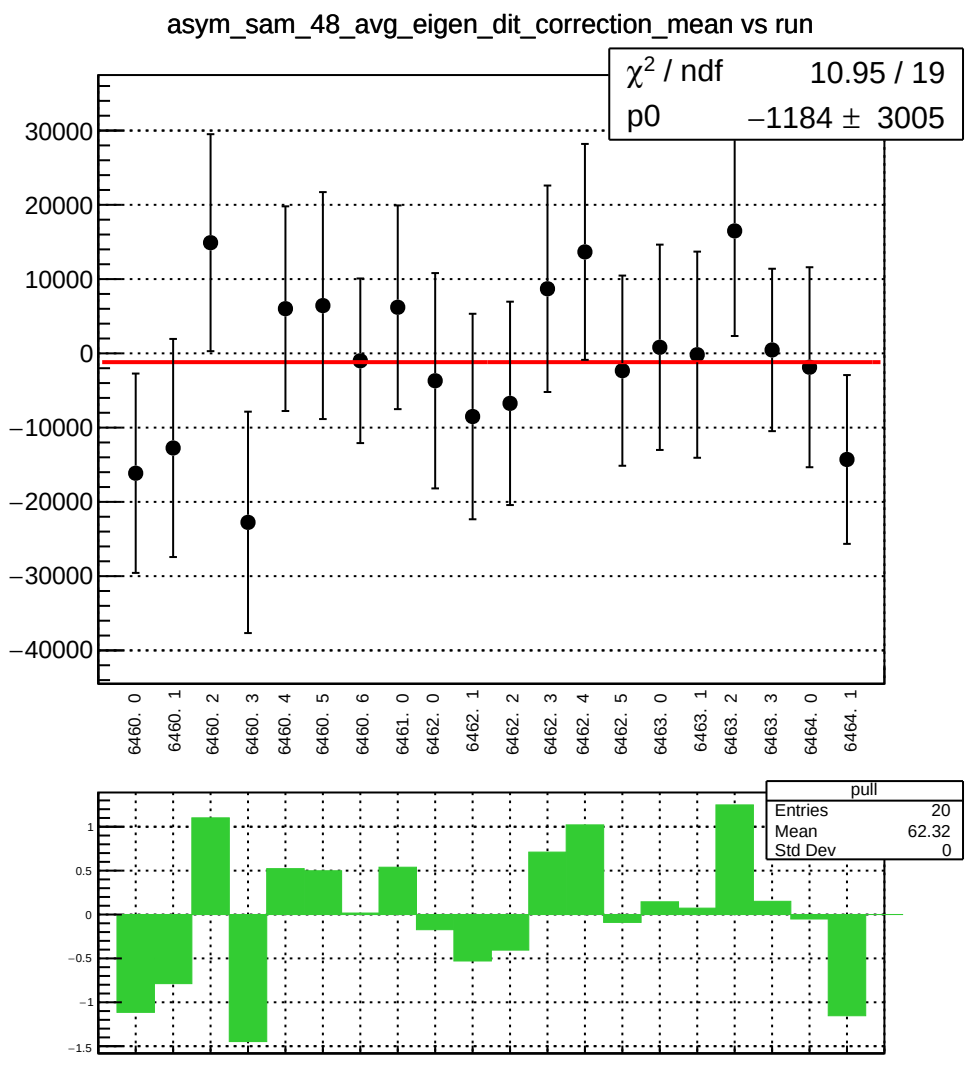

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 10.95 / 19
p0 −1184 ± 3005
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.32
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

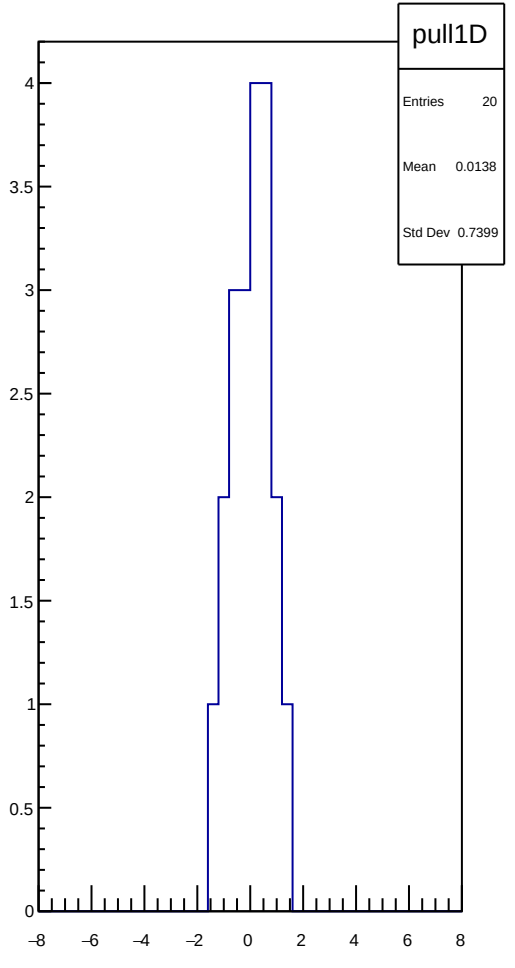

pull1D
Entries 20
Mean 0.0138
Std Dev 0.7399
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

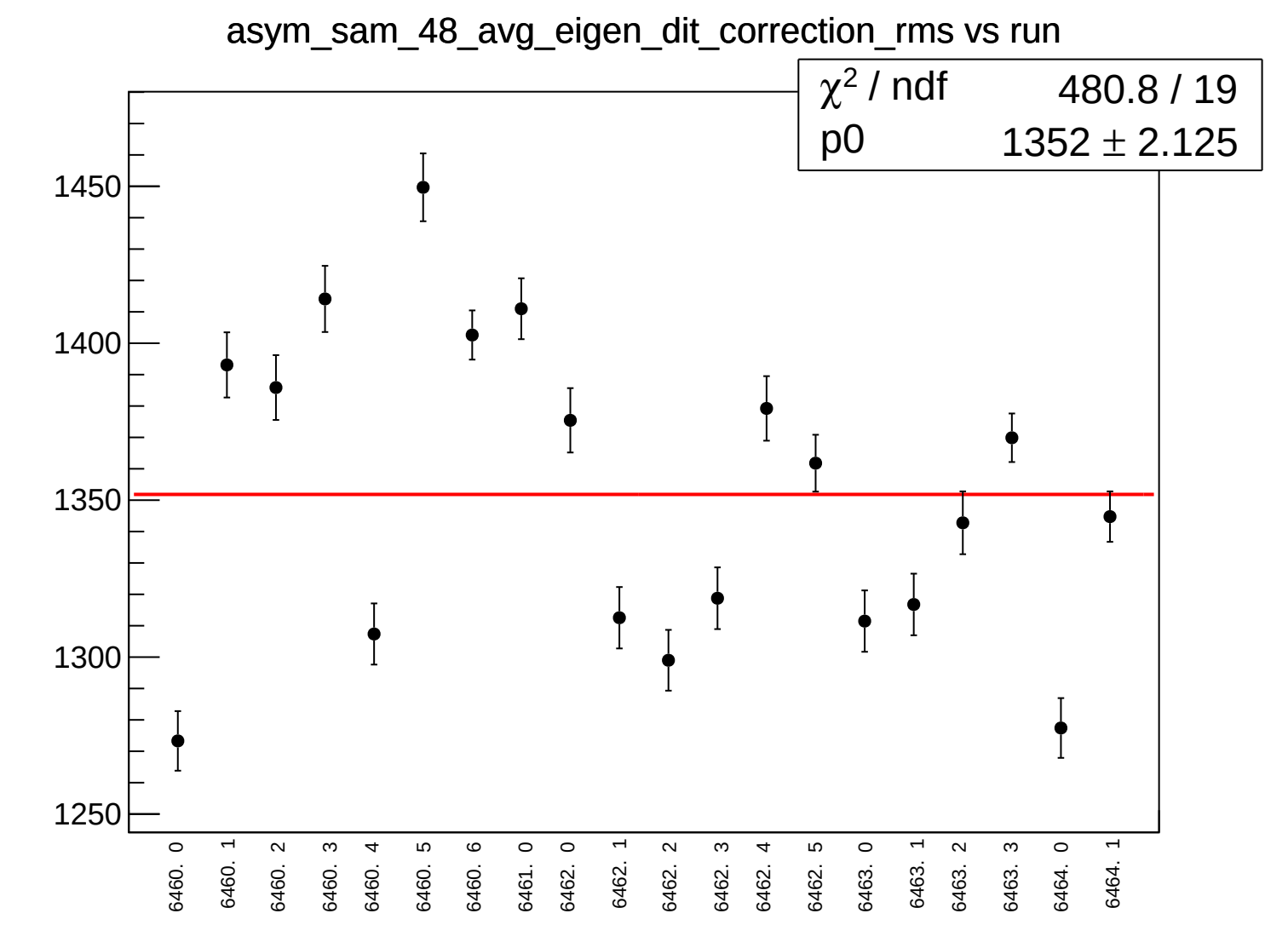

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 480.8 / 19
p0 1352 ± 2.125
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

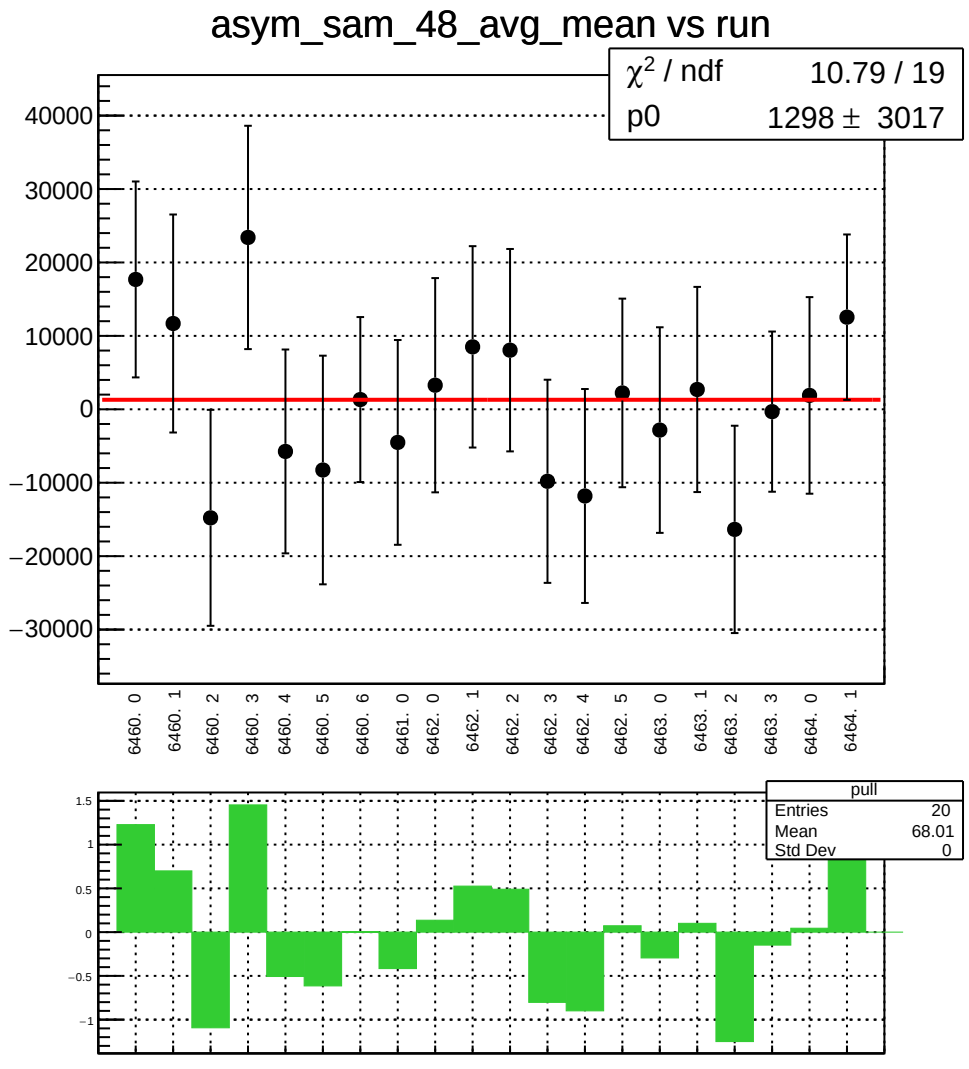

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 16.08 / 19
p0 74.7 ± 297
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −32.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01702
Std Dev 0.8965
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

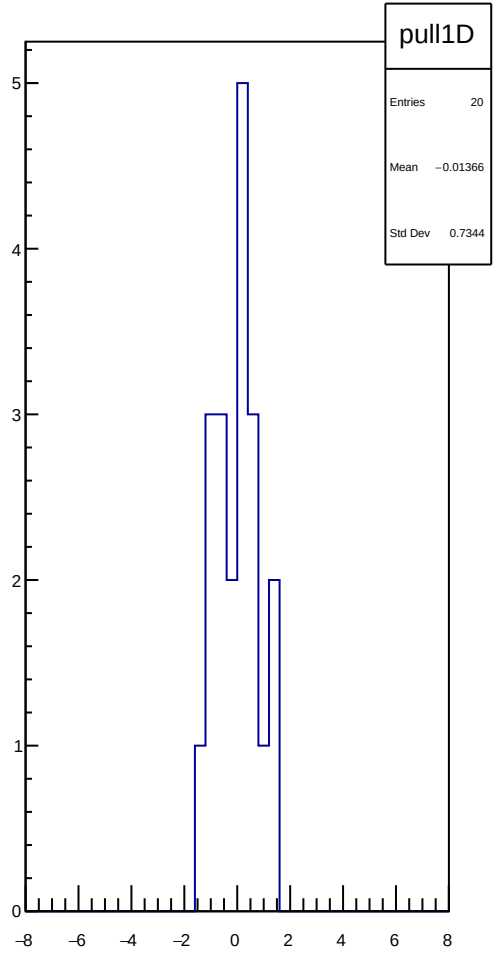

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 382.2 / 19
p0 133.6 ± 0.21
150
145
140
135
130
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

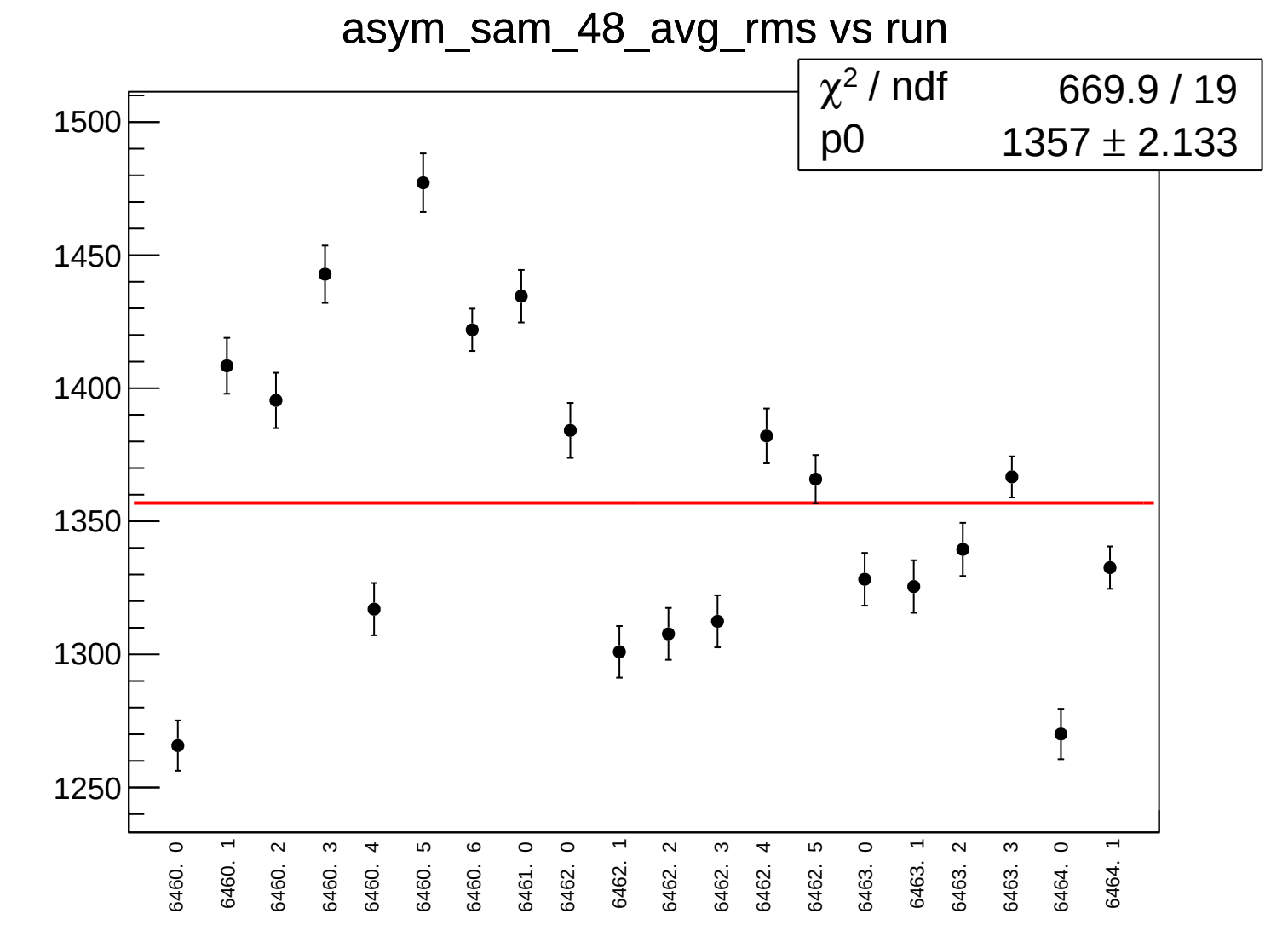

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.95 / 19
p0 −1184 ± 3005
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.32
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

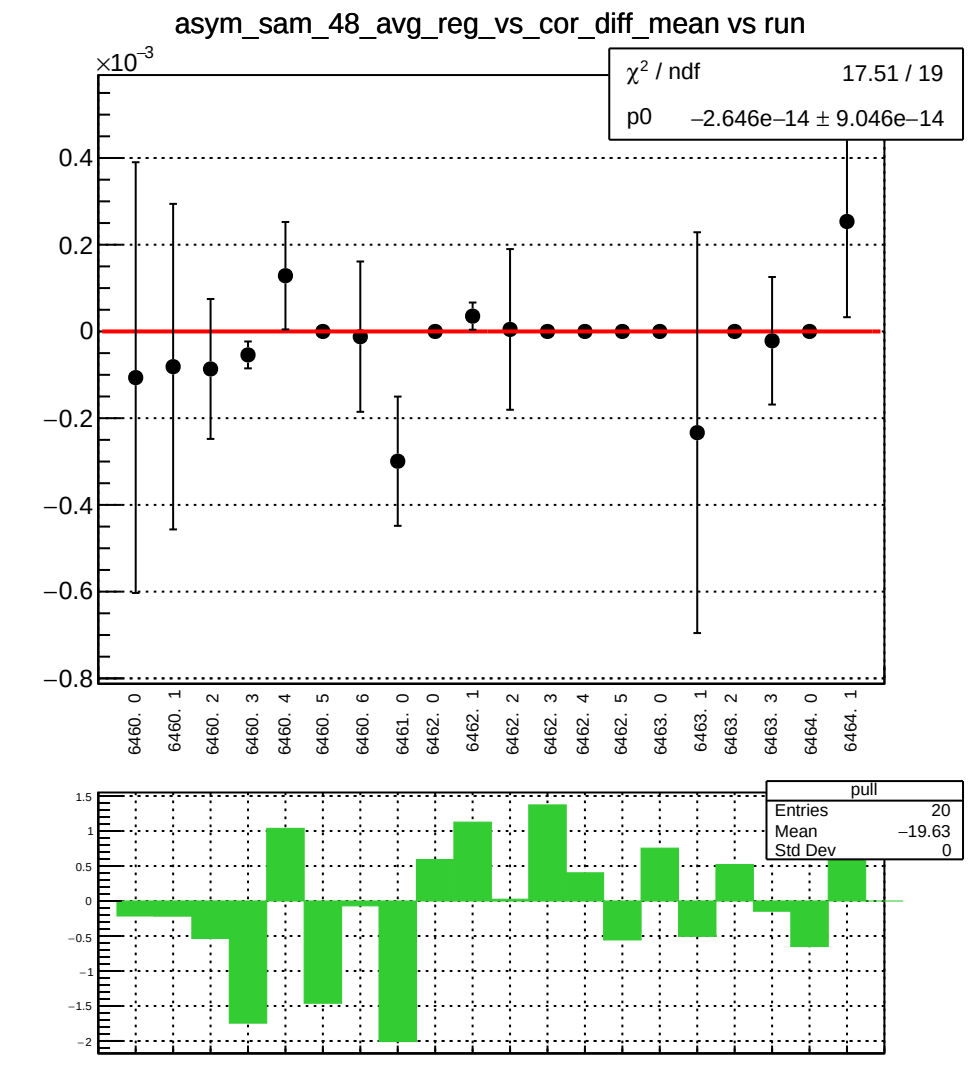

pull1D
Entries 20
Mean 0.0138
Std Dev 0.7399
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

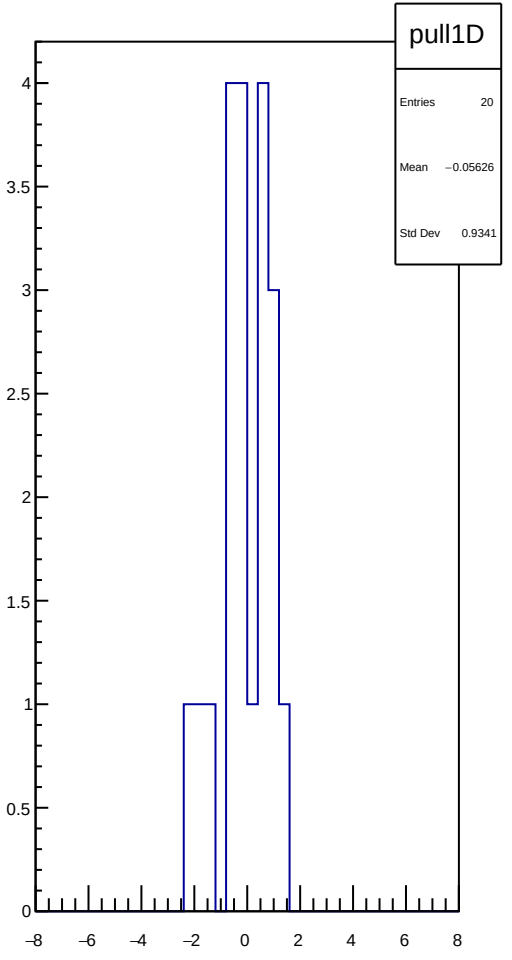

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 480.8 / 19
p0 1352 ± 2.125
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

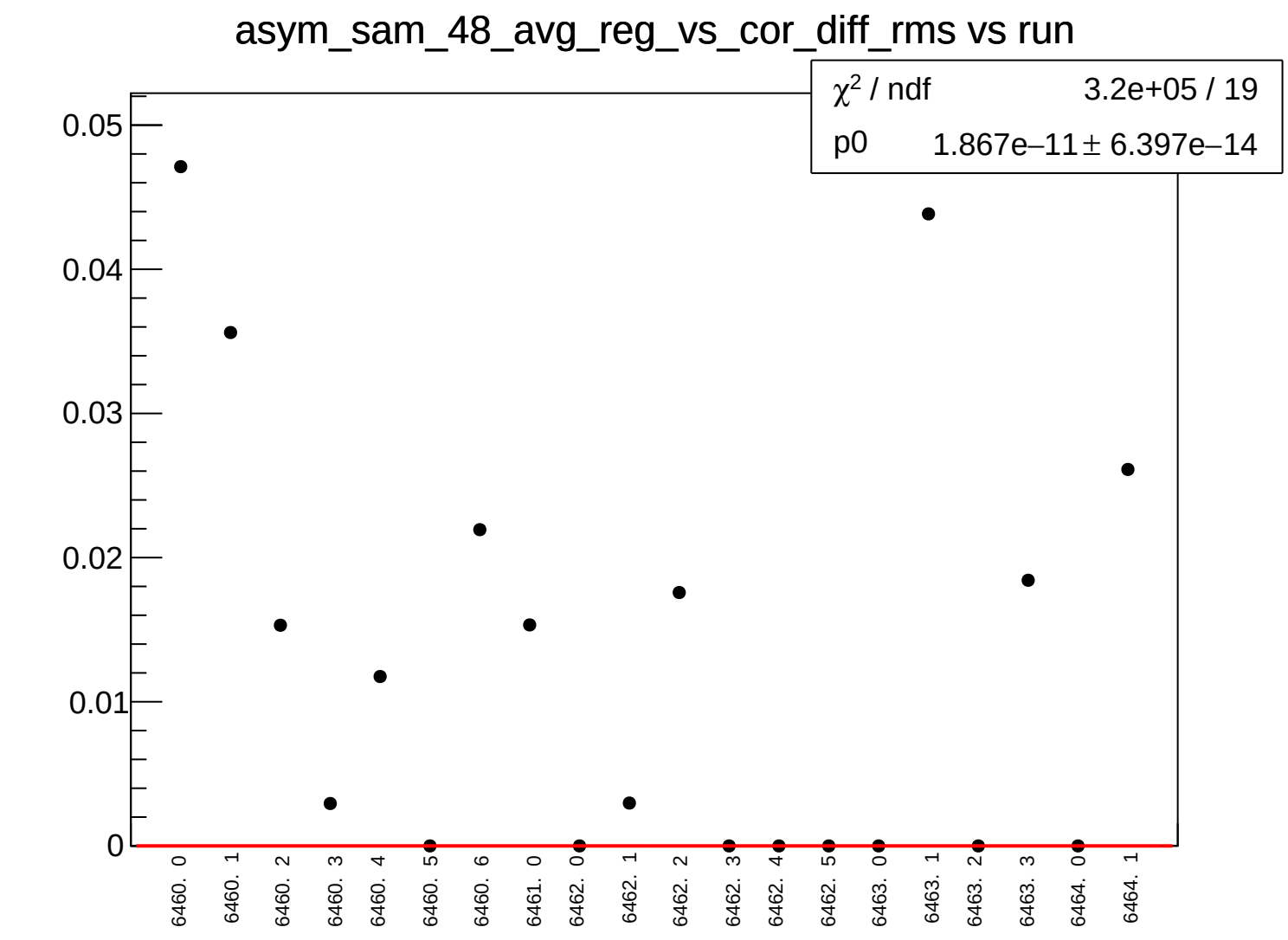

asym_sam_48_avg_mean vs run
χ² / ndf 10.79 / 19
p0 1298 ± 3017
40000
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 68.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1

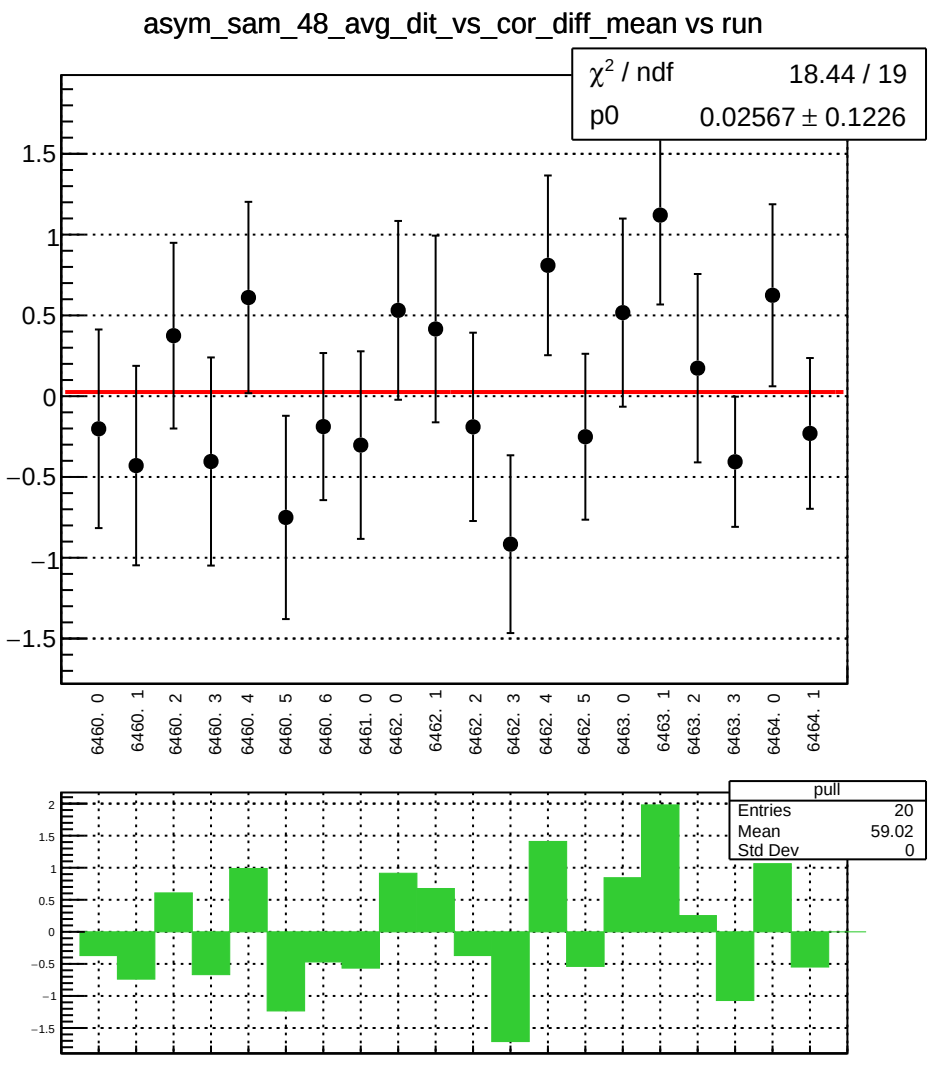

pull1D
Entries 20
Mean −0.01366
Std Dev 0.7344
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

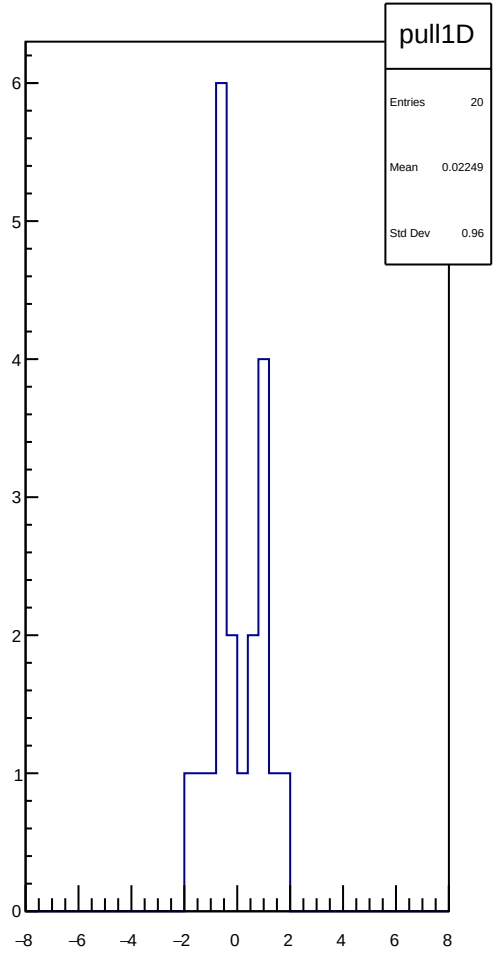

asym_sam_48_avg_rms vs run
χ² / ndf 669.9 / 19
p0 1357 ± 2.133
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

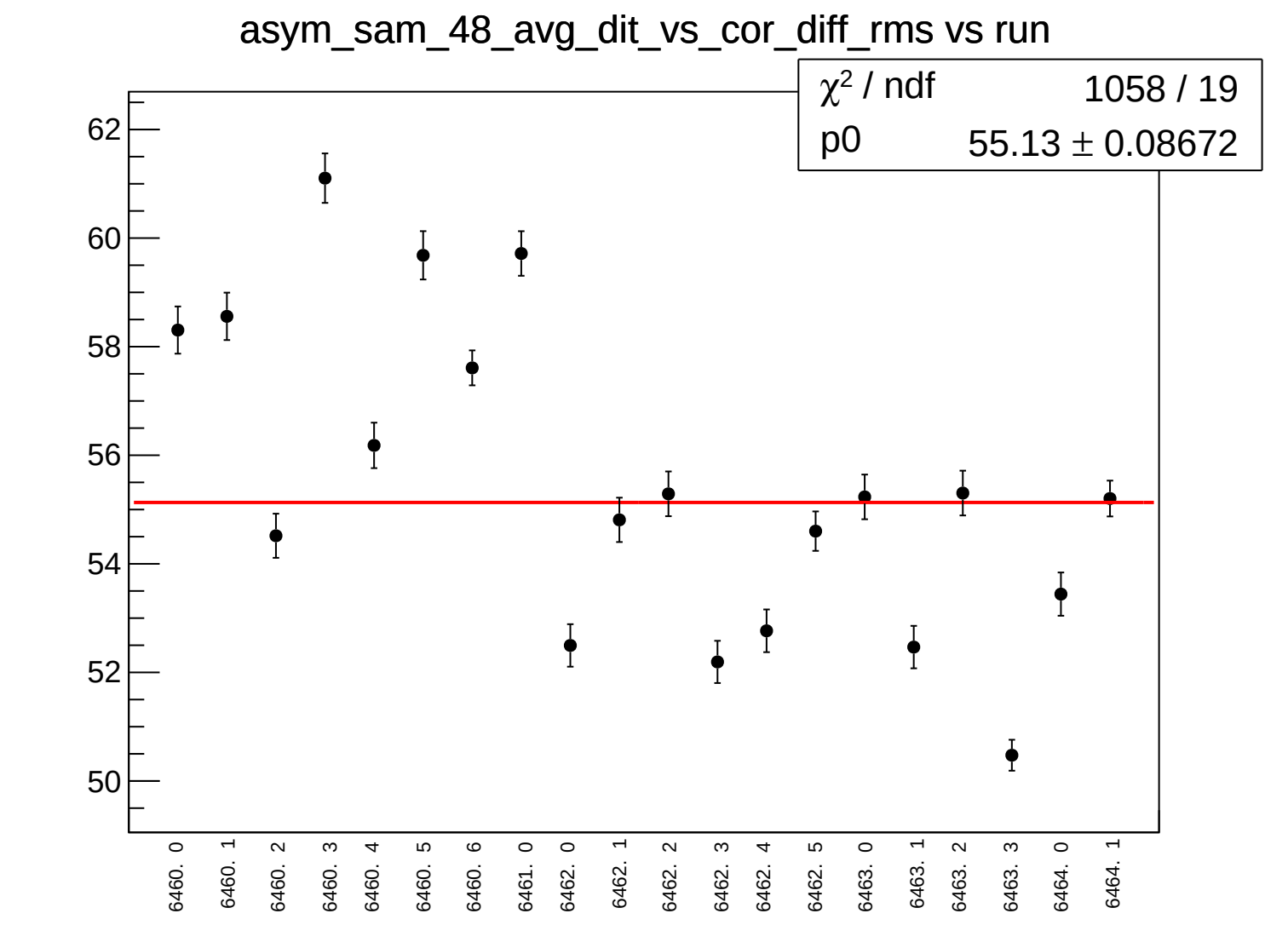

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 17.51 / 19
p0 −2.646e−14 ± 9.046e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −19.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

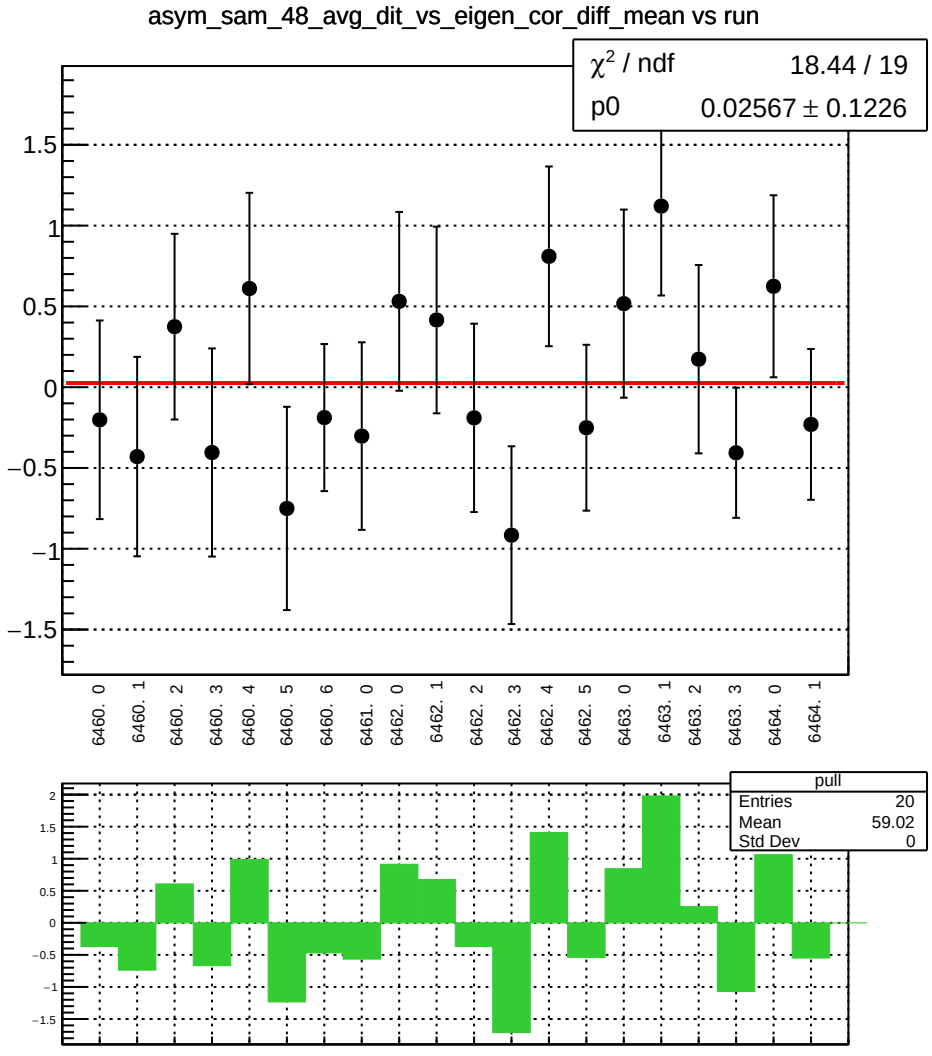

pull1D
Entries 20
Mean −0.05626
Std Dev 0.9341
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

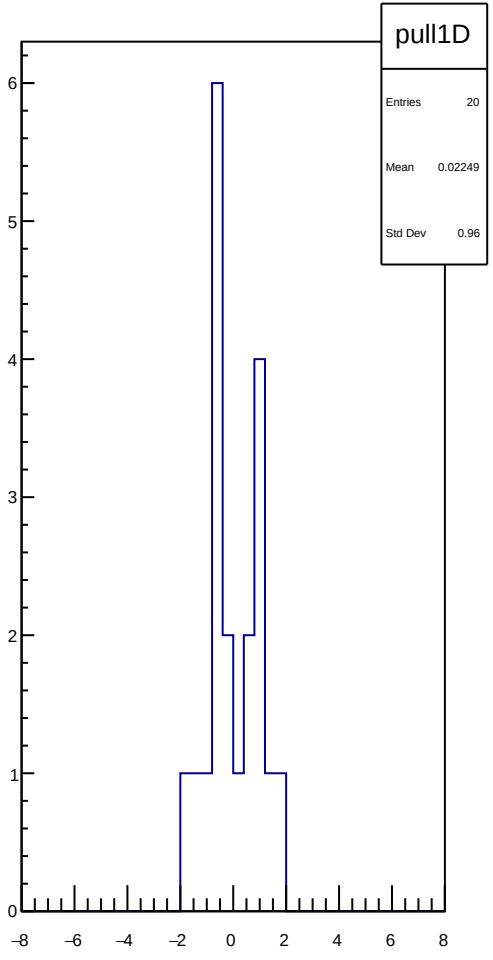

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.2e+05 / 19
p0 1.867e−11 ± 6.397e−14
0.05
0.04
0.03
0.02
0.01
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

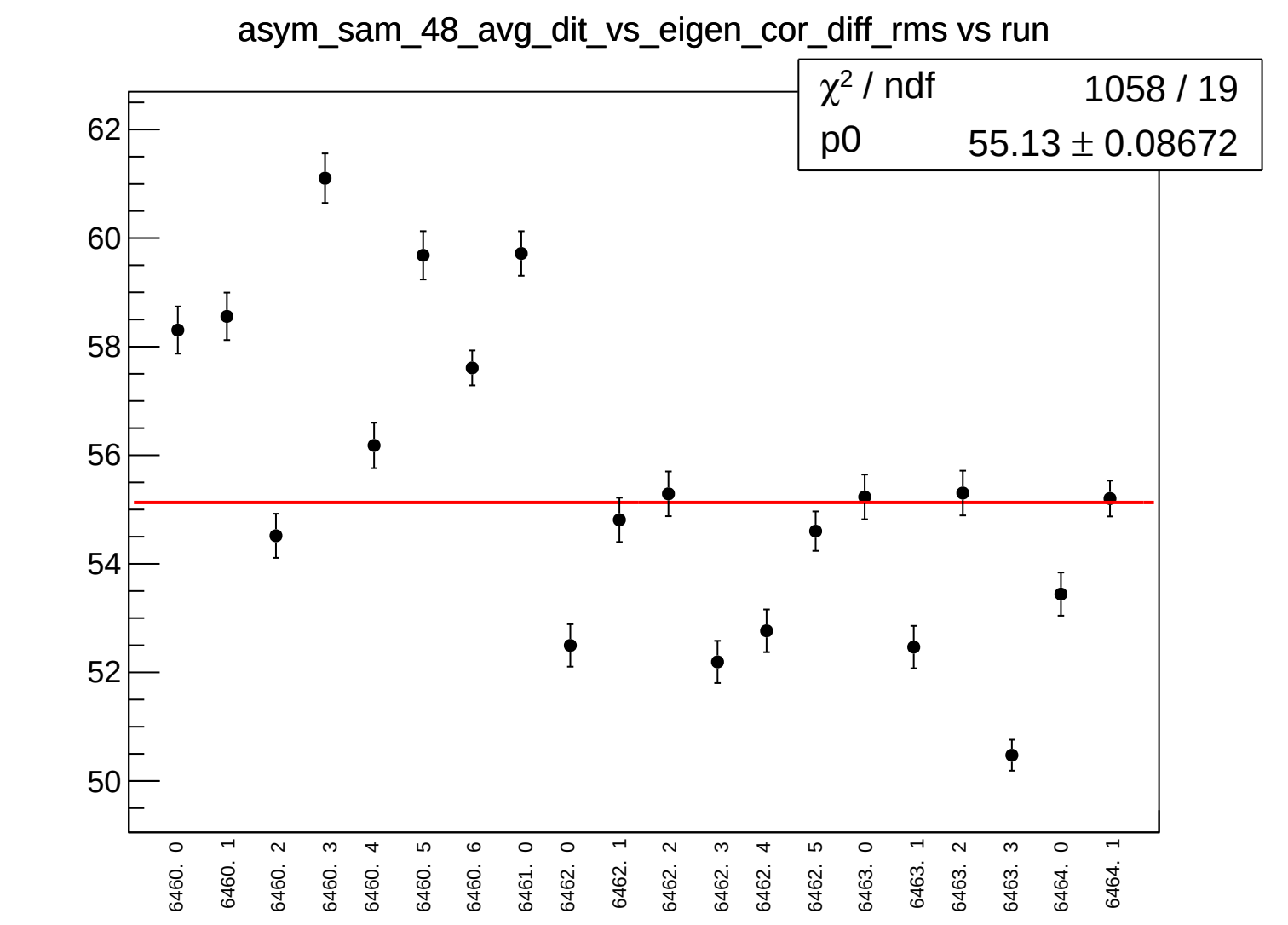

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 18.44 / 19
p0 0.02567 ± 0.1226
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

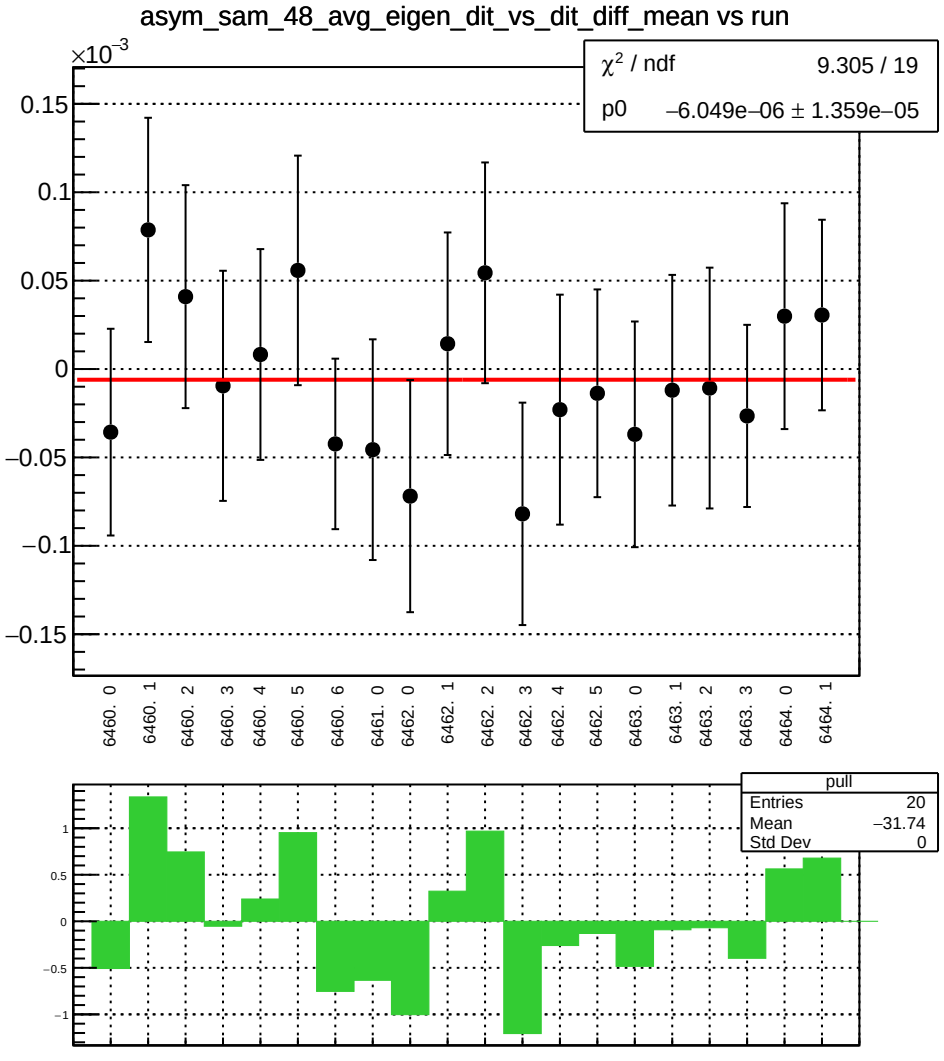

pull1D
Entries 20
Mean 0.02249
Std Dev 0.96
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

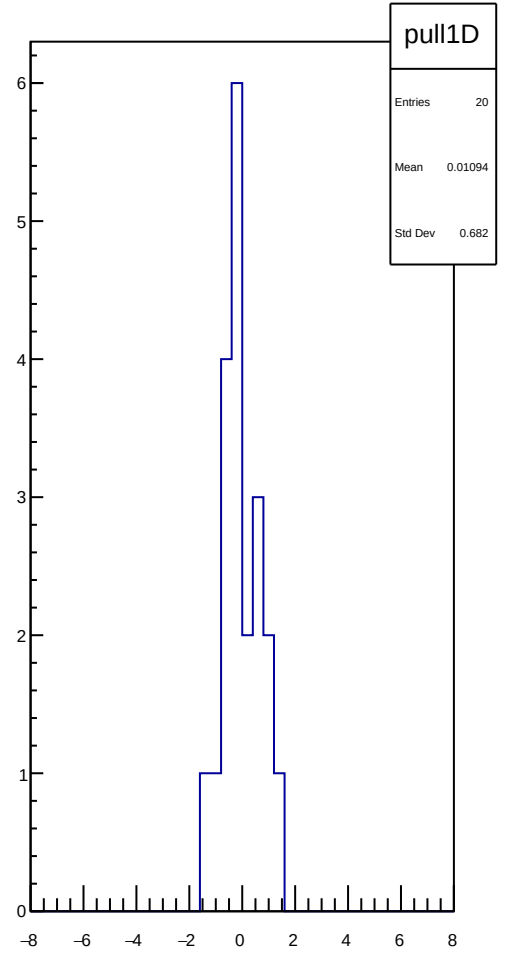

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1058 / 19
p0 55.13 ± 0.08672
62
60
58
56
54
52
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

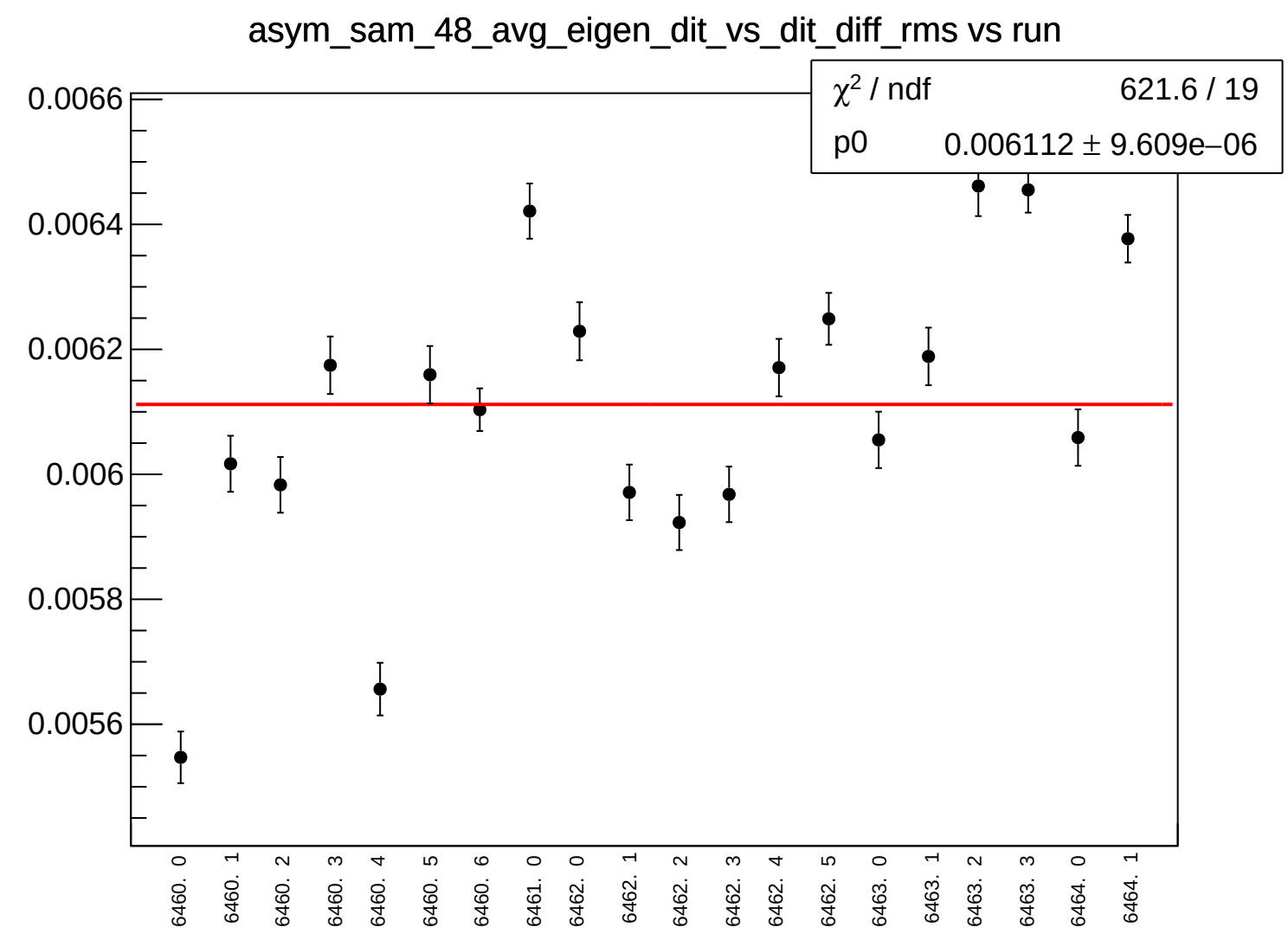

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.44 / 19
p0 0.02567 ± 0.1226
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

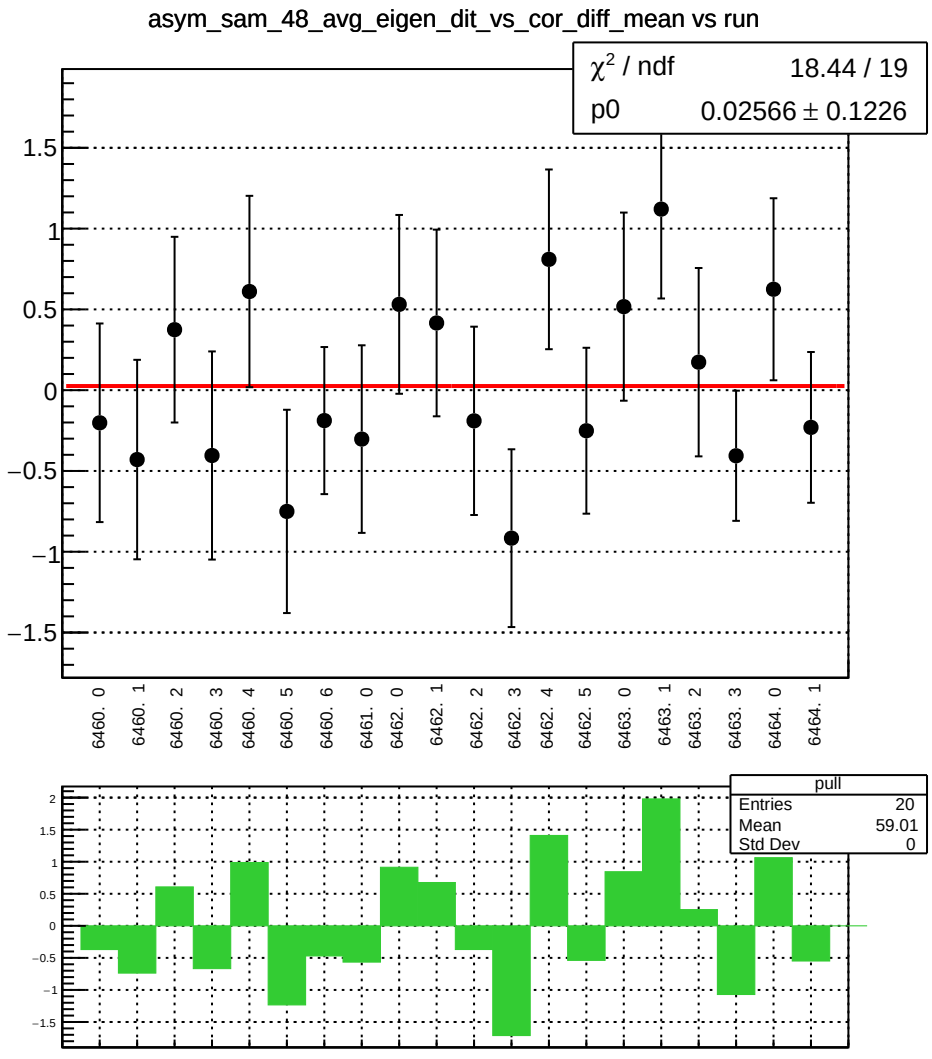

pull1D
Entries 20
Mean 0.02249
Std Dev 0.96
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

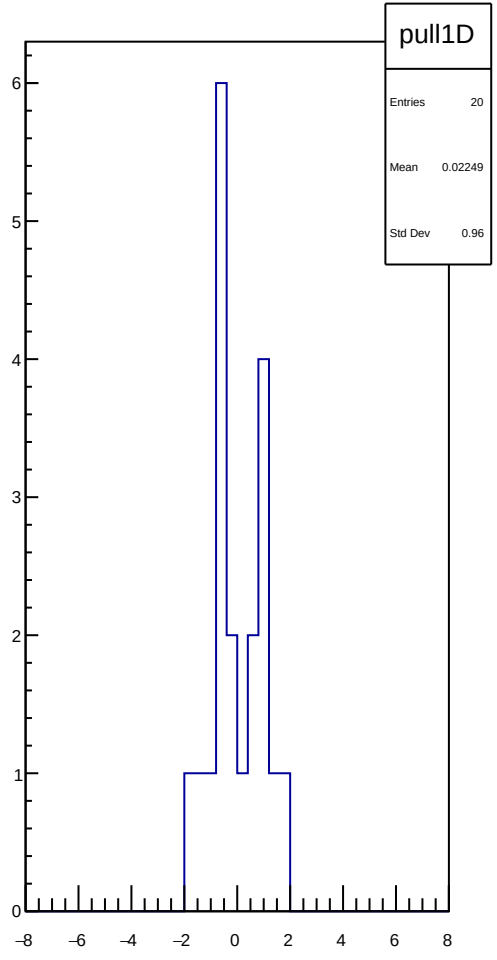

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1058 / 19
p0 55.13 ± 0.08672
62
60
58
56
54
52
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

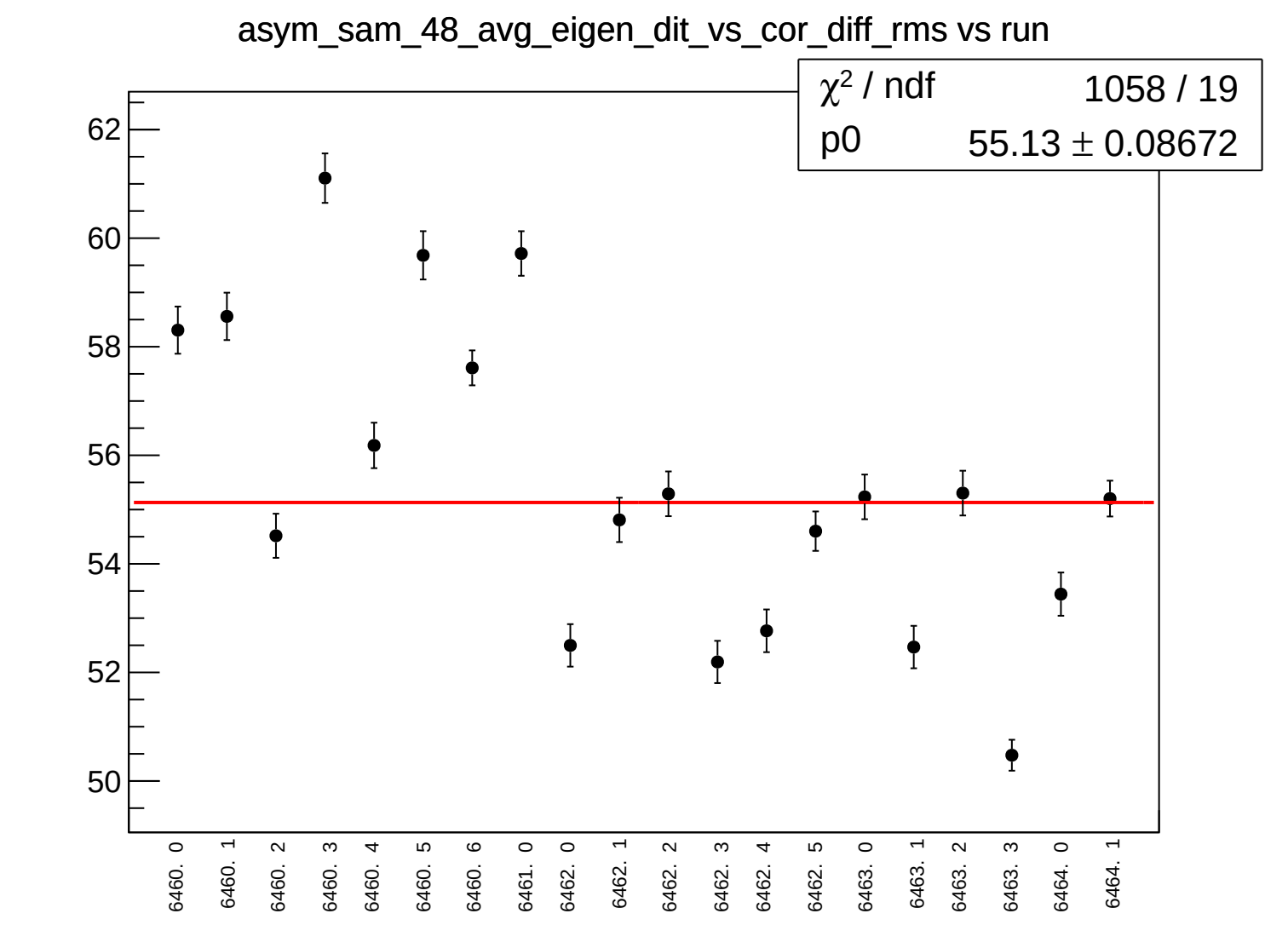

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 9.305 / 19
p0 −6.049e−06 ± 1.359e−05
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −31.74
Std Dev 0
1
0.5
0
−0.5
−1

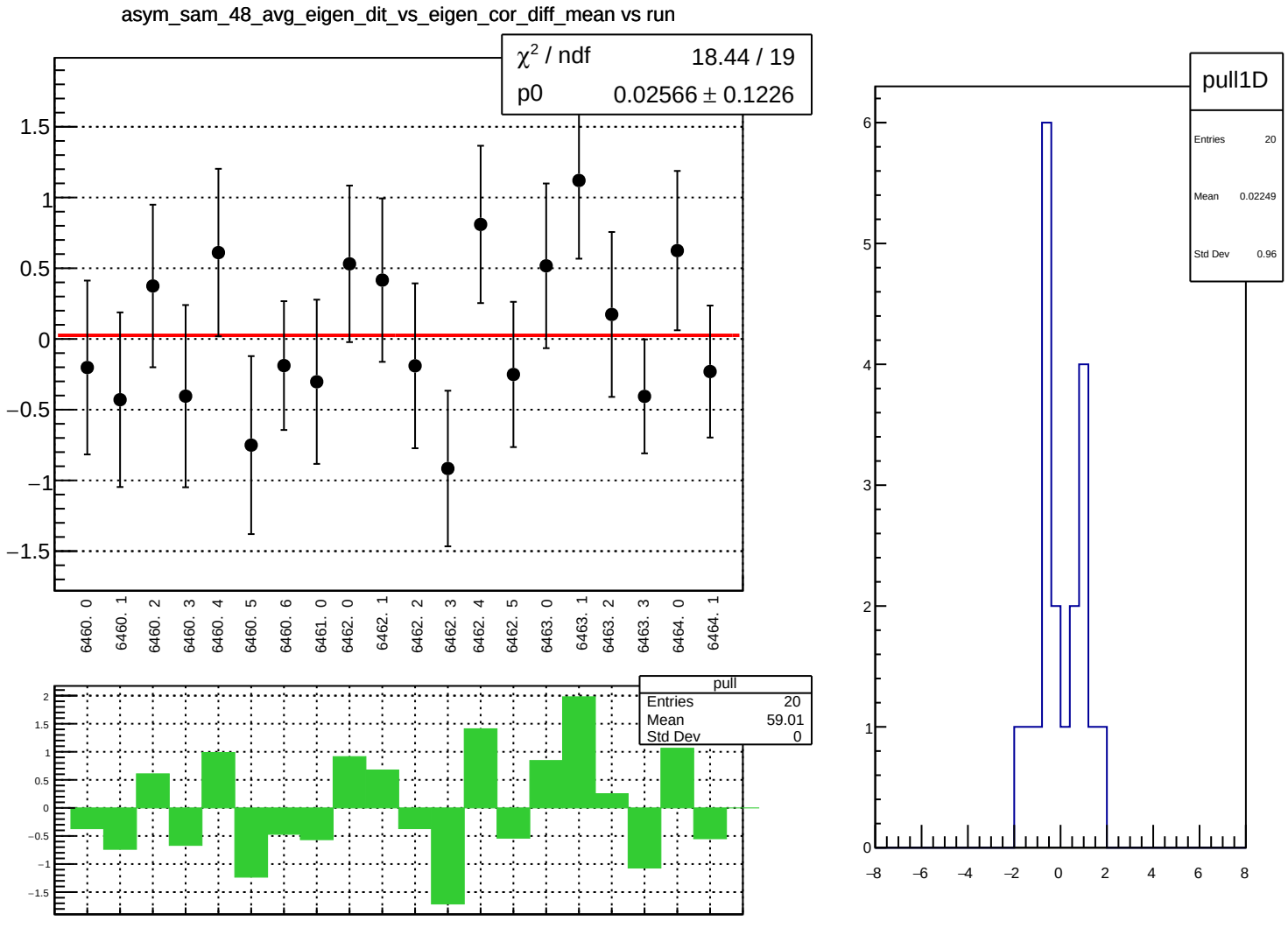

pull1D
Entries 20
Mean 0.01094
Std Dev 0.682
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

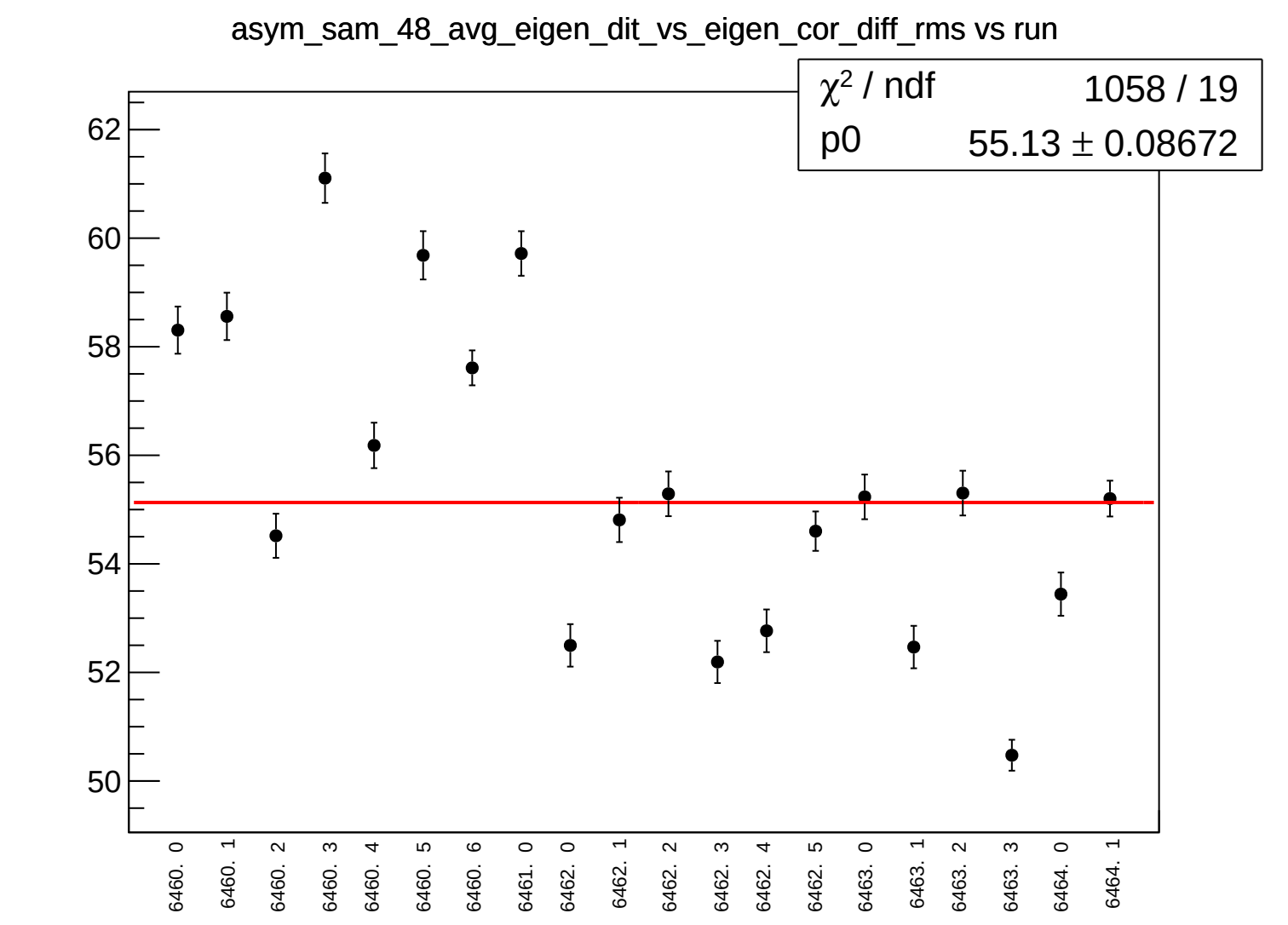

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 621.6 / 19
p0 0.006112 ± 9.609e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

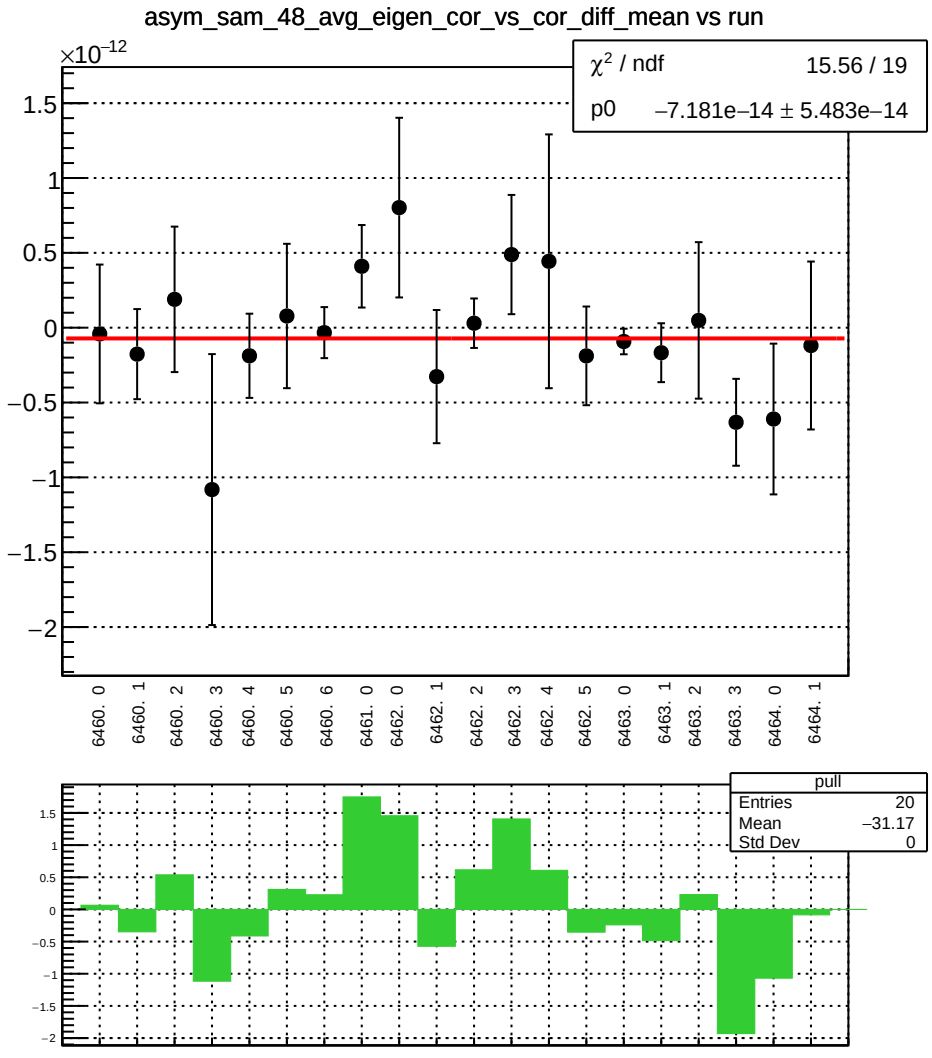

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.44 / 19
p0 0.02566 ± 0.1226
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

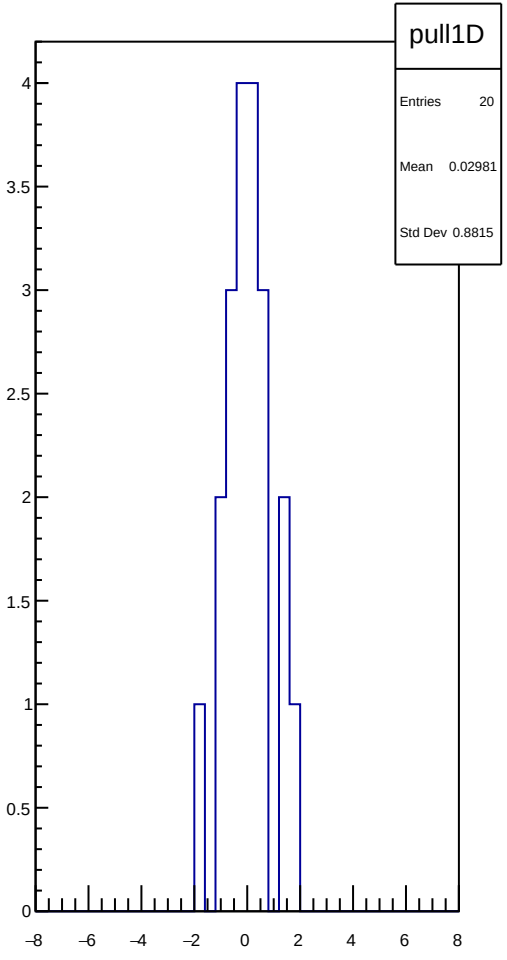

pull1D
Entries 20
Mean 0.02249
Std Dev 0.96
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

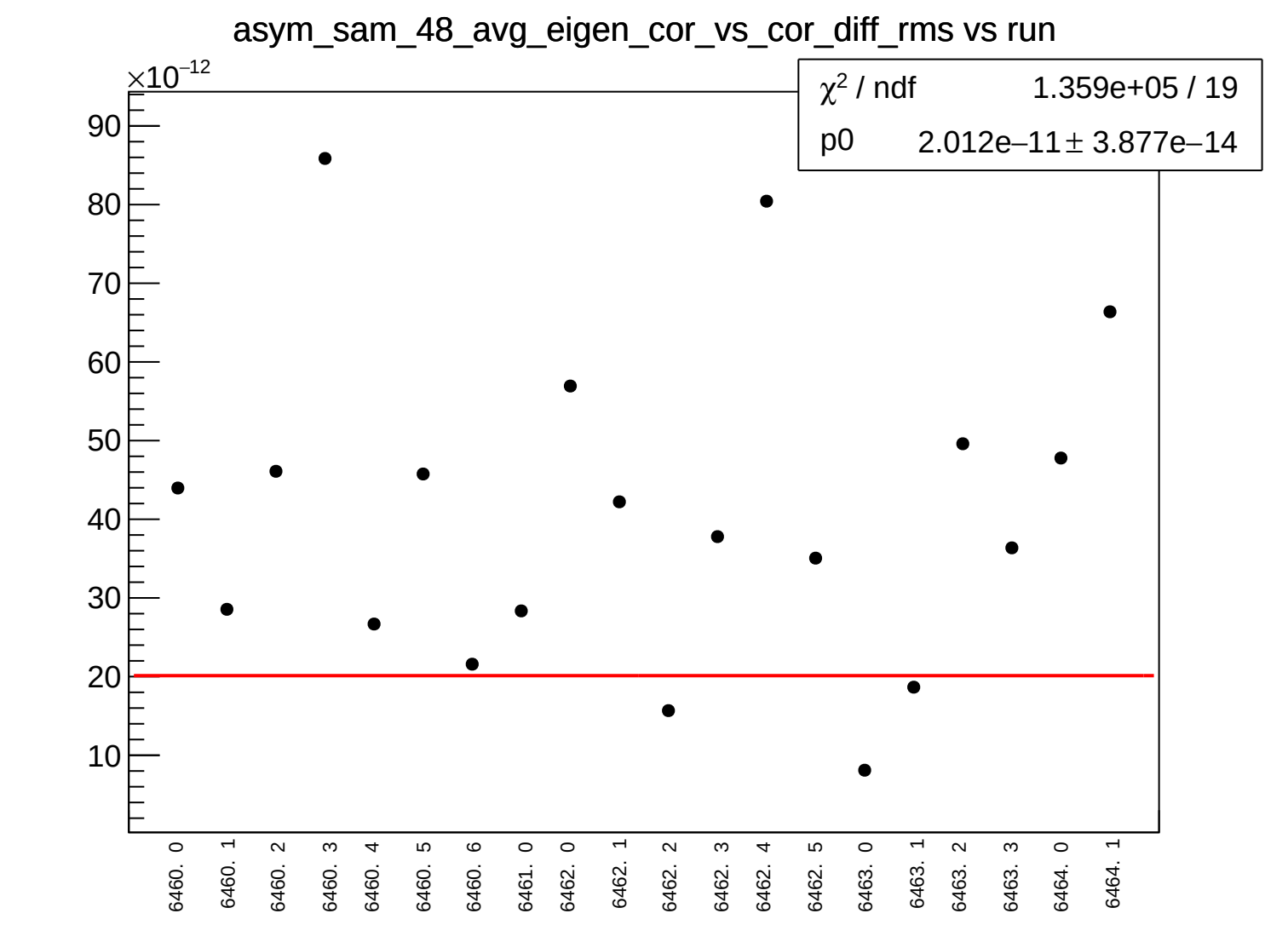

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1058 / 19
p0 55.13 ± 0.08672
62
60
58
56
54
52
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

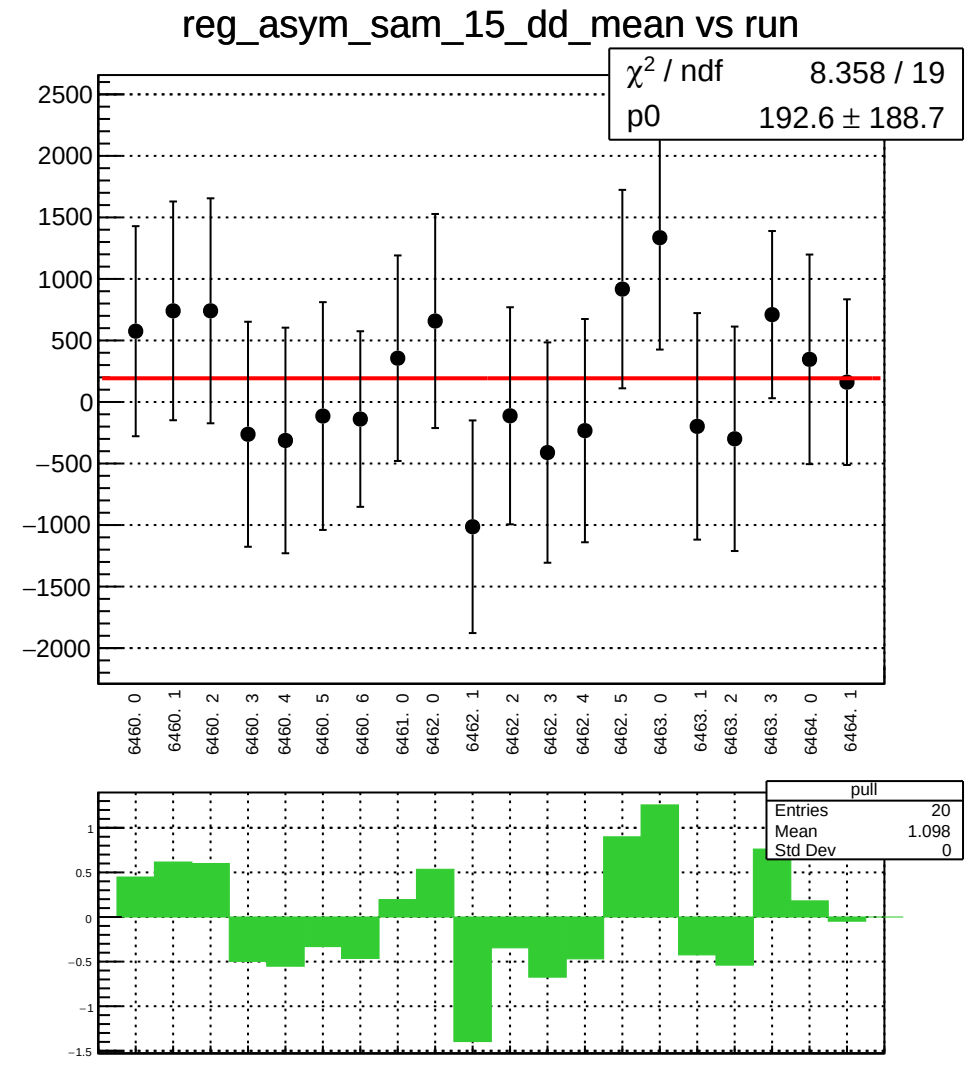

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.44 / 19
p0 0.02566 ± 0.1226
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02249
Std Dev 0.96
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

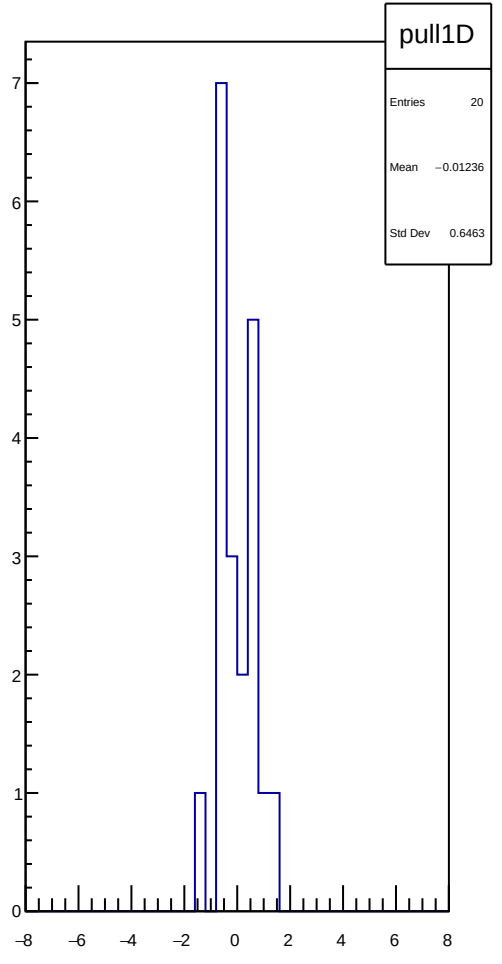

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1058 / 19
p0 55.13 ± 0.08672
62
60
58
56
54
52
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

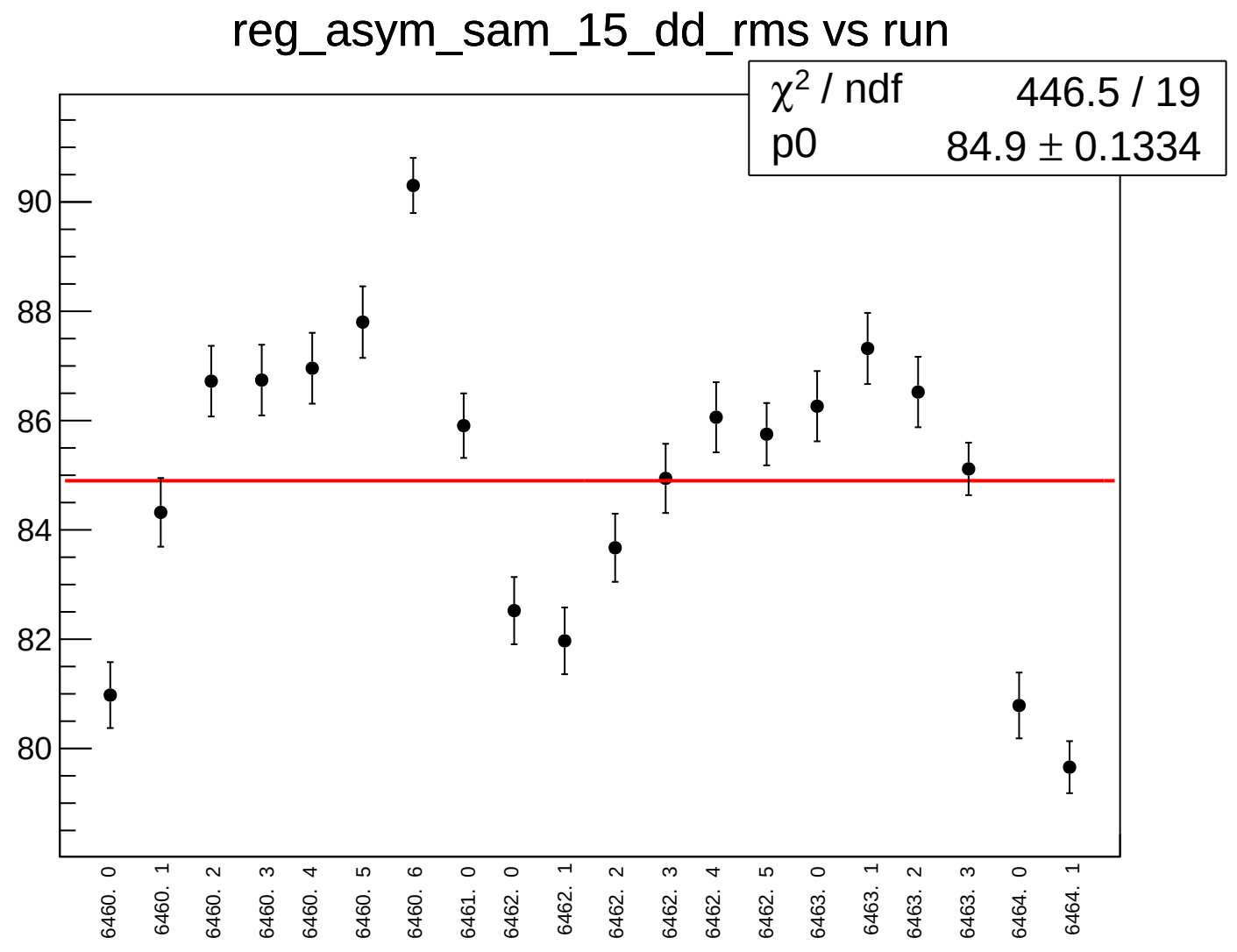

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 15.56 / 19
p0 −7.181e−14 ± 5.483e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −31.17
Std Dev 0

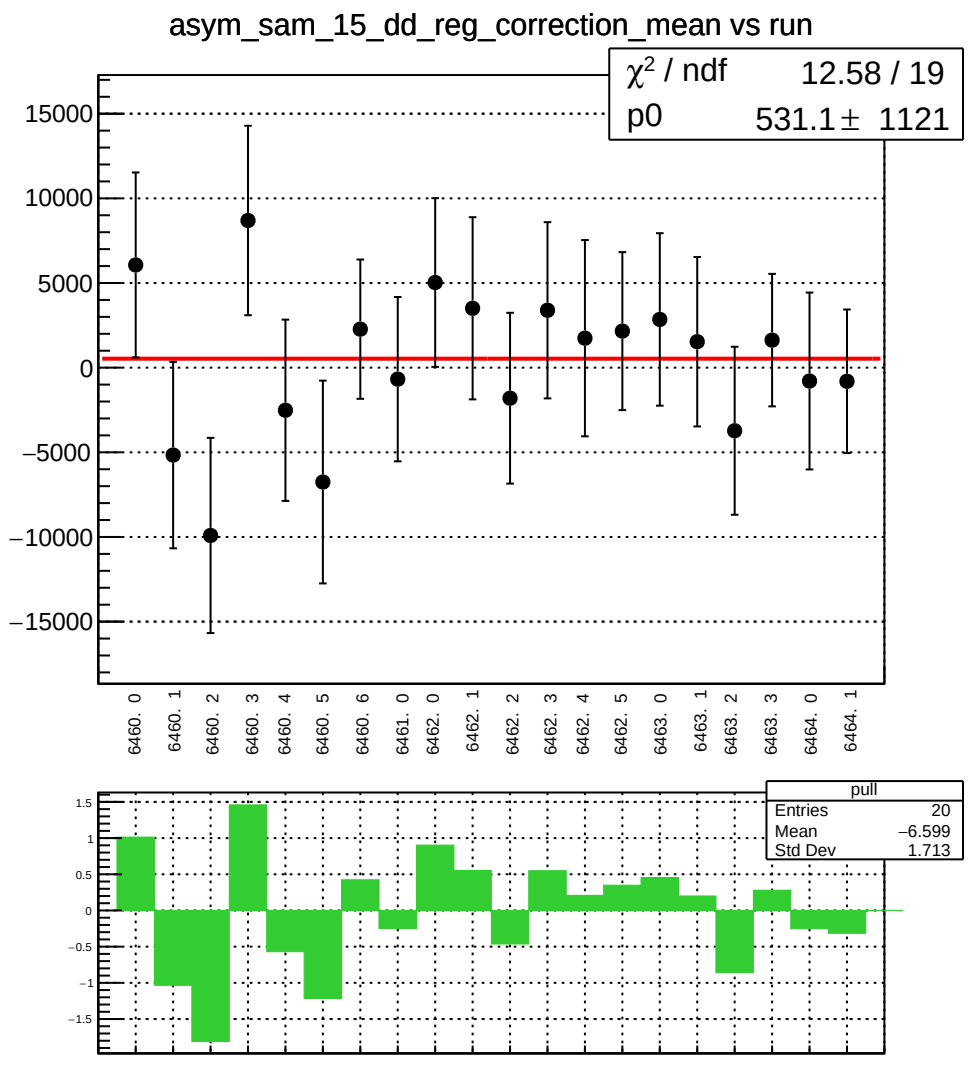

pull1D
Entries 20
Mean 0.02981
Std Dev 0.8815
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

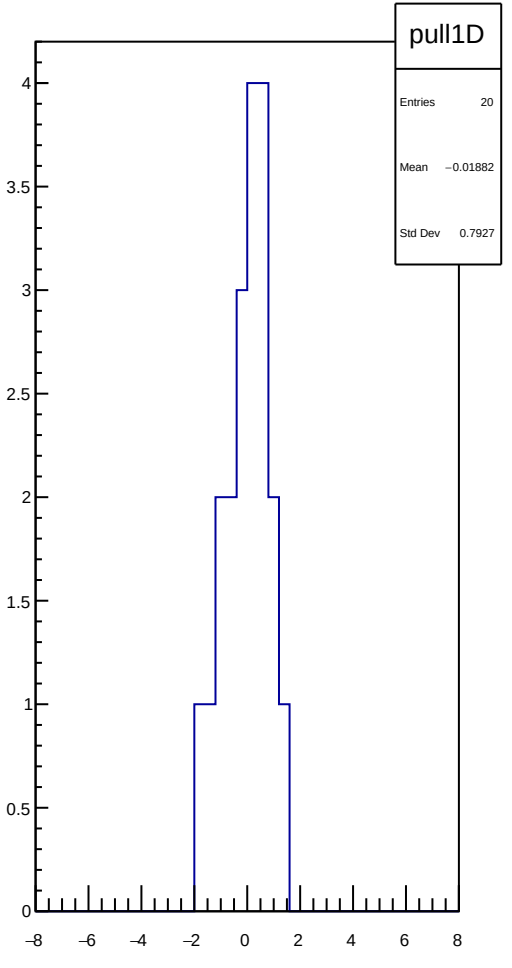

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.359e+05 / 19
p0 2.012e−11 ± 3.877e−14
90
80
70
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

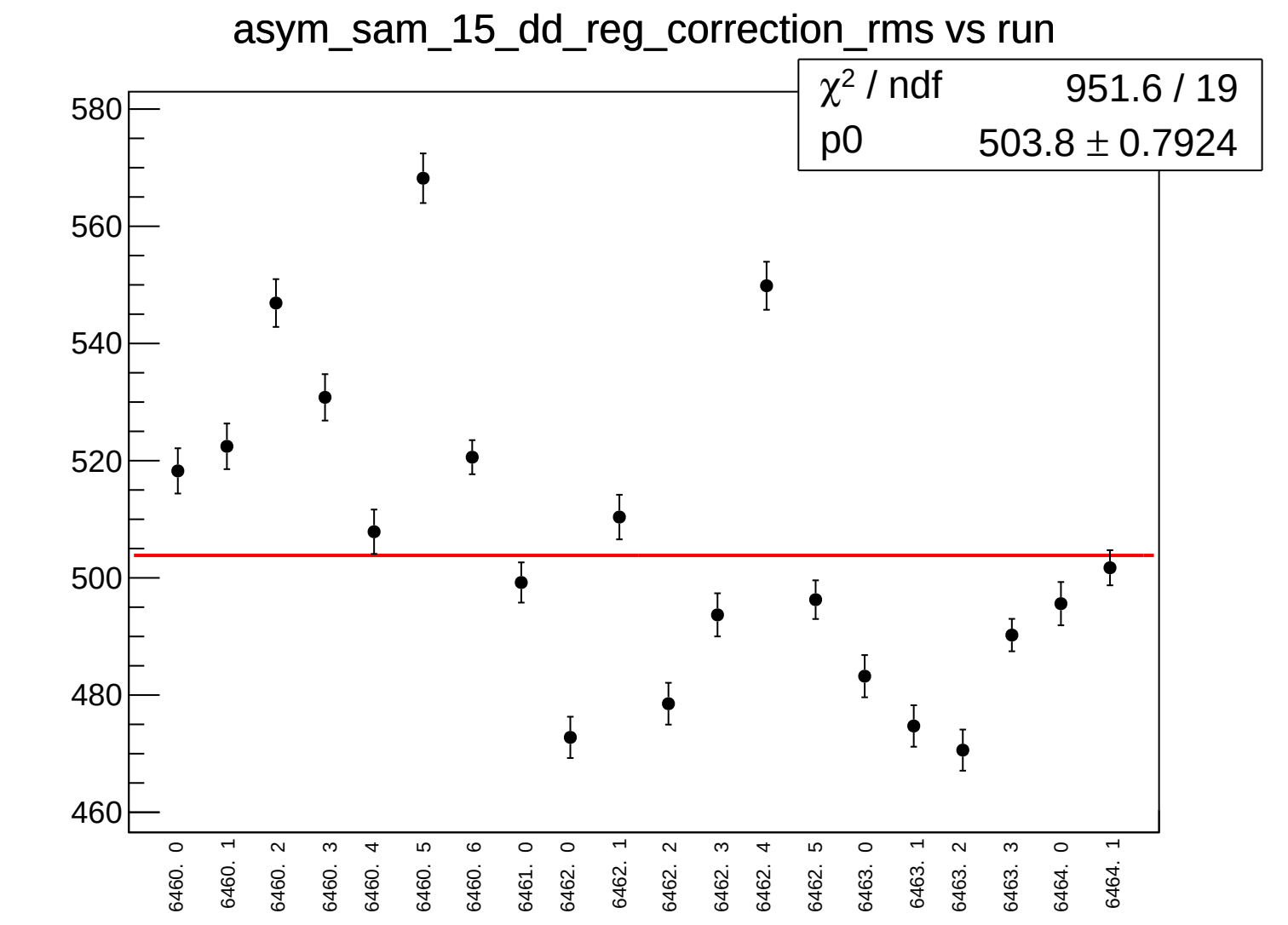

reg_asym_sam_15_dd_mean vs run
χ² / ndf 8.358 / 19
p0 192.6 ± 188.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.098
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

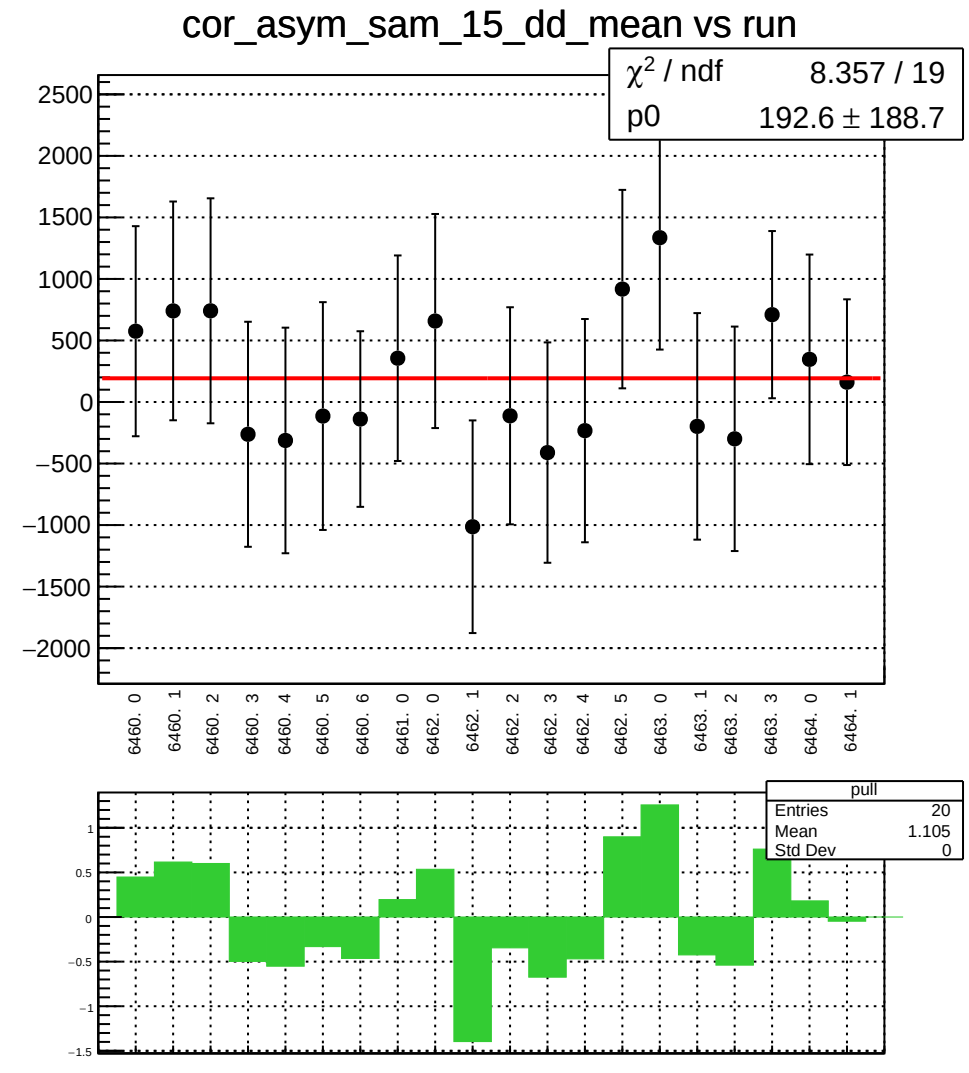

pull1D
Entries 20
Mean −0.01236
Std Dev 0.6463
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

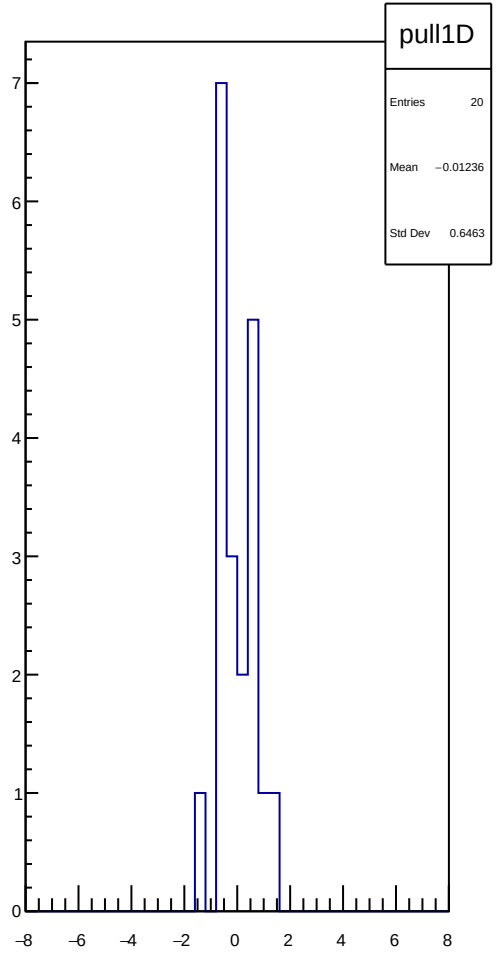

reg_asym_sam_15_dd_rms vs run
χ² / ndf 446.5 / 19
p0 84.9 ± 0.1334
90
88
86
84
82
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

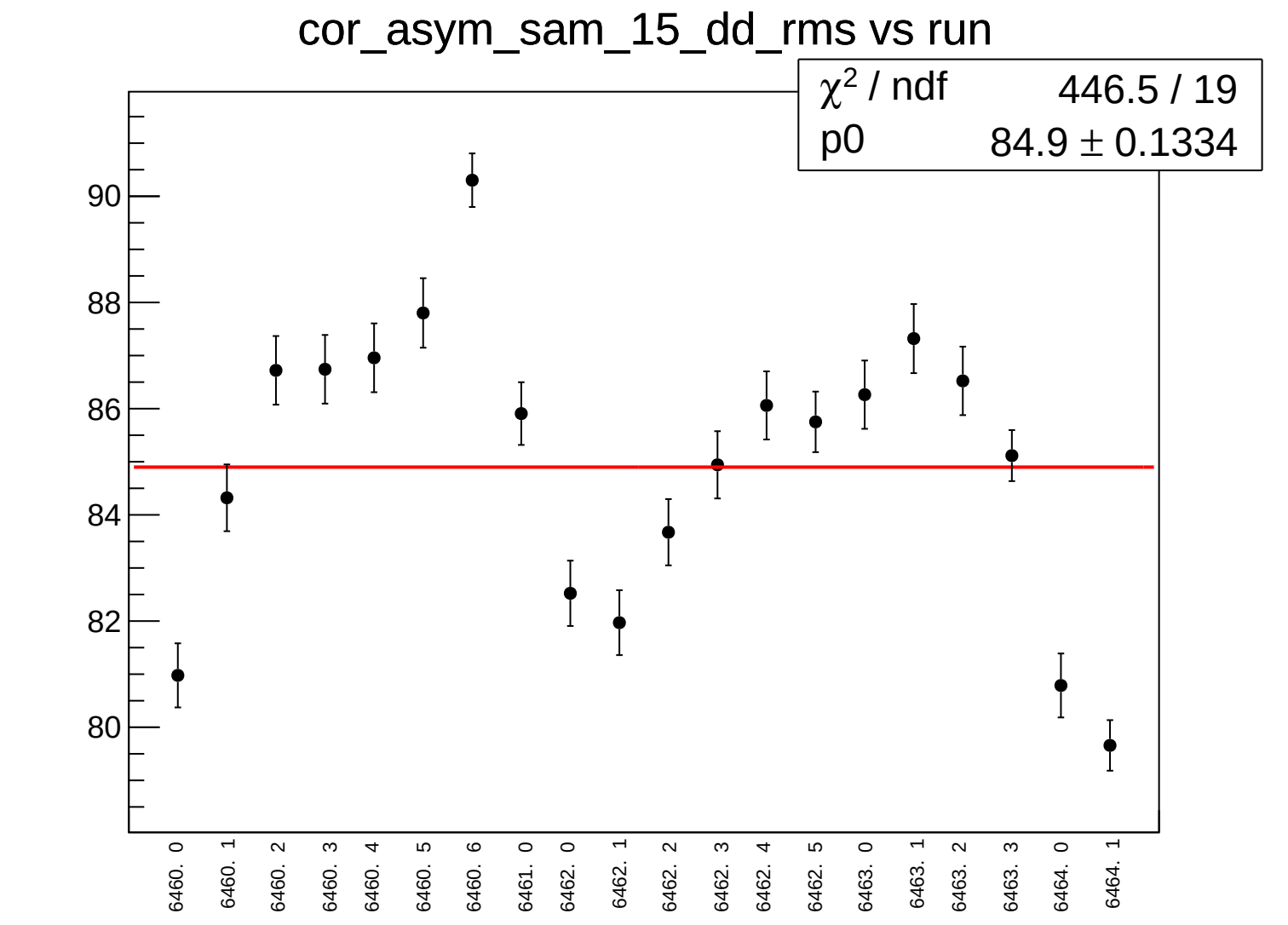

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 12.58 / 19
p0 531.1 ± 1121
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.599
Std Dev 1.713
1.5
1
0.5
0
−0.5
−1
−1.5

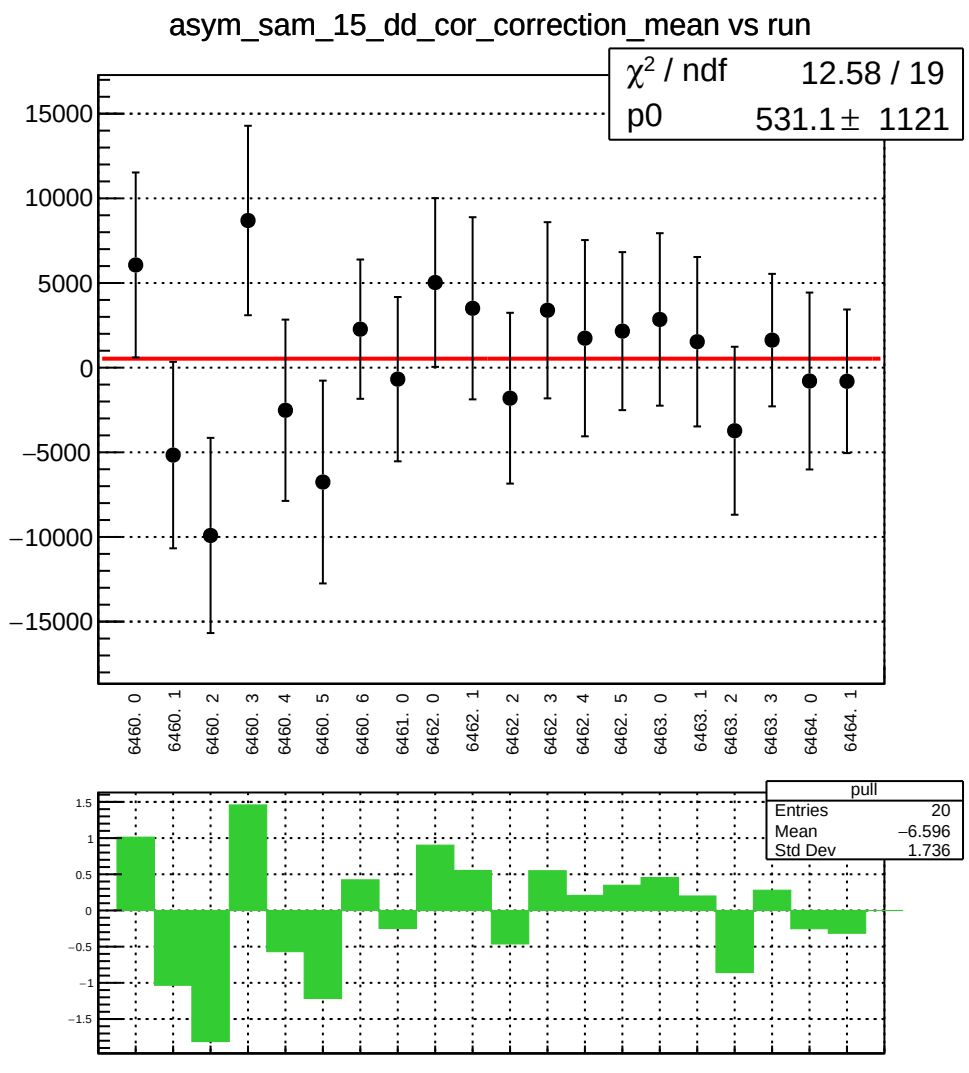

pull1D
Entries 20
Mean −0.01882
Std Dev 0.7927
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

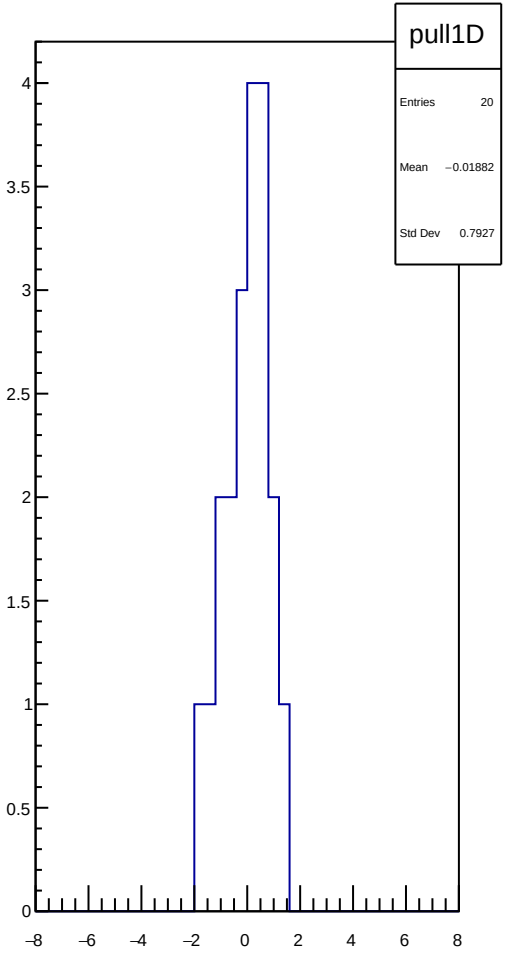

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 951.6 / 19
p0 503.8 ± 0.7924
580
560
540
520
500
480
460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

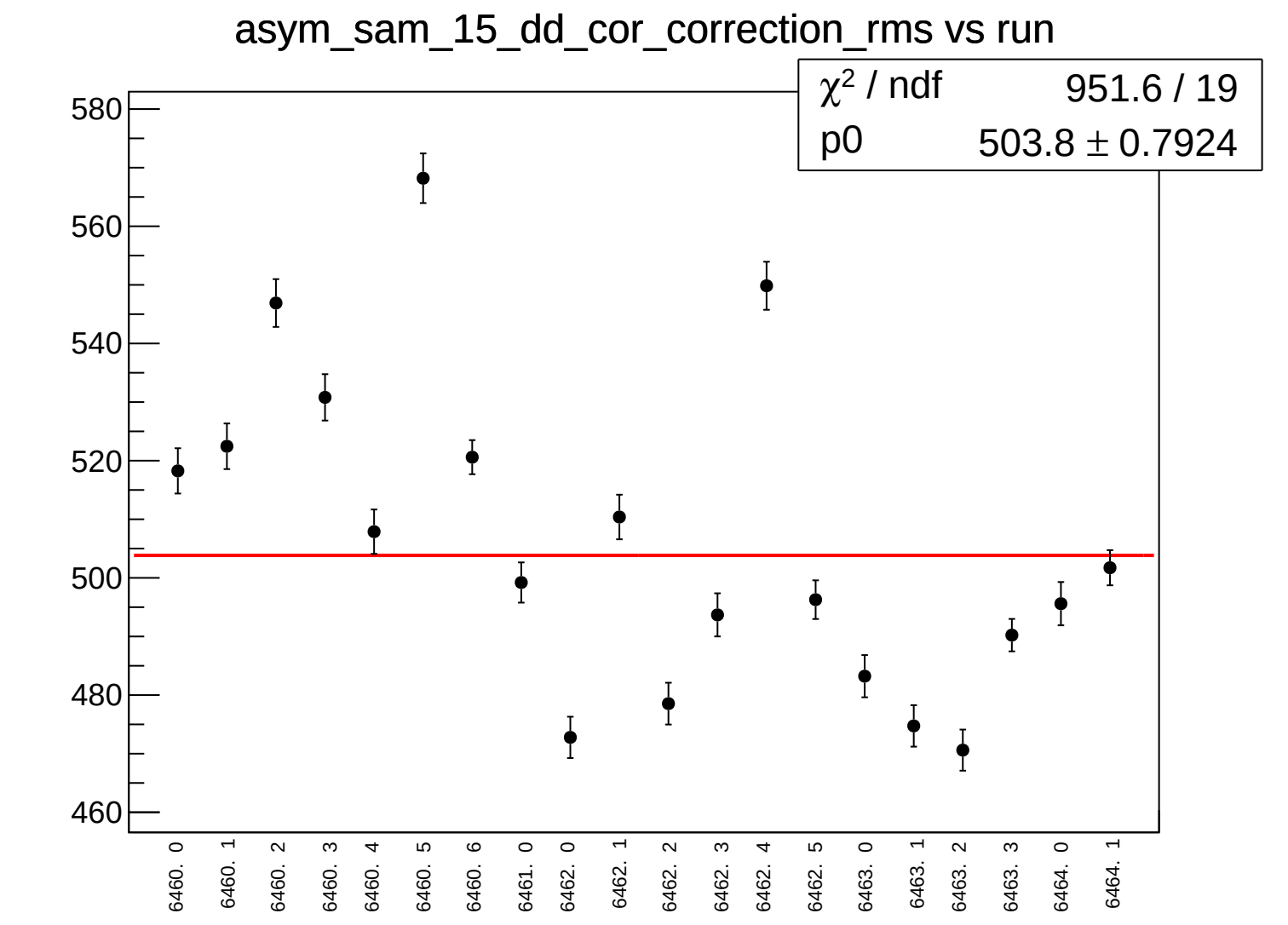

cor_asym_sam_15_dd_mean vs run
χ² / ndf 8.357 / 19
p0 192.6 ± 188.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.105
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

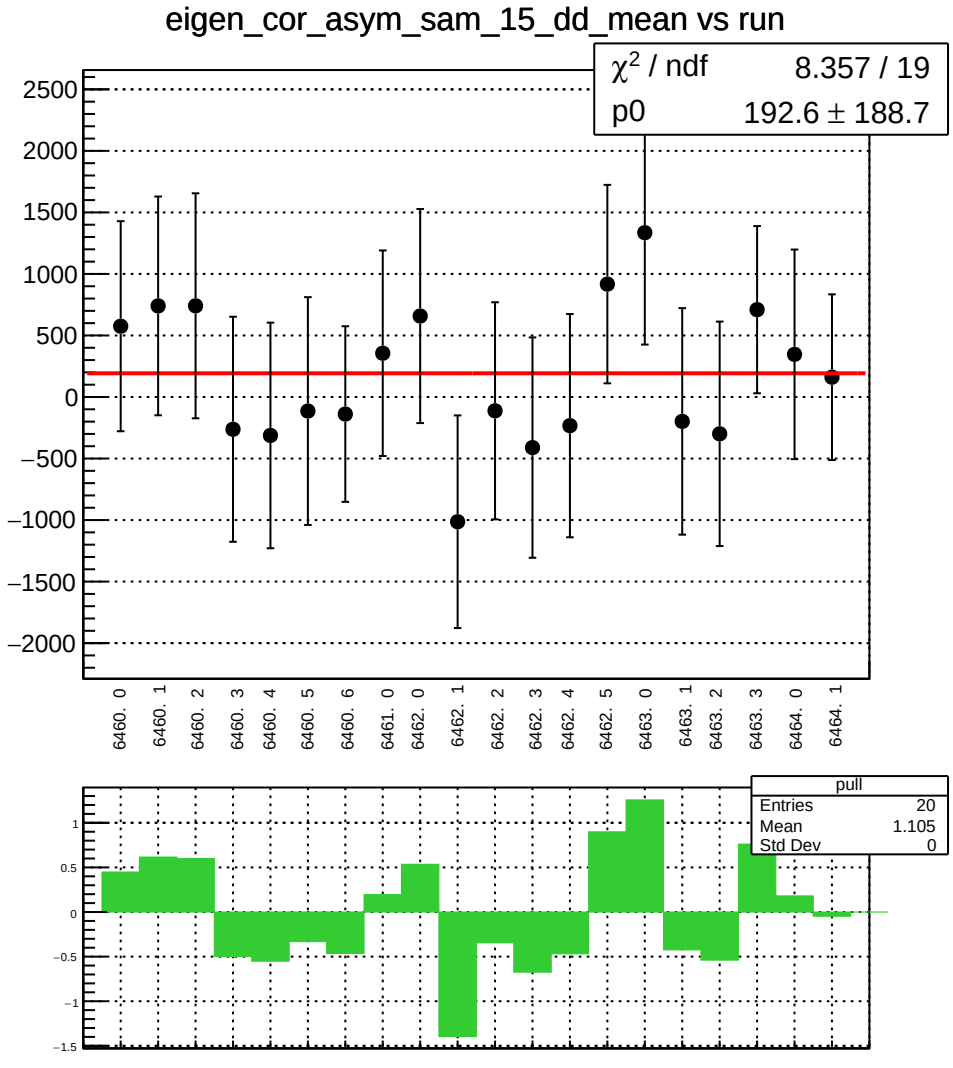

pull1D
Entries 20
Mean −0.01236
Std Dev 0.6463
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

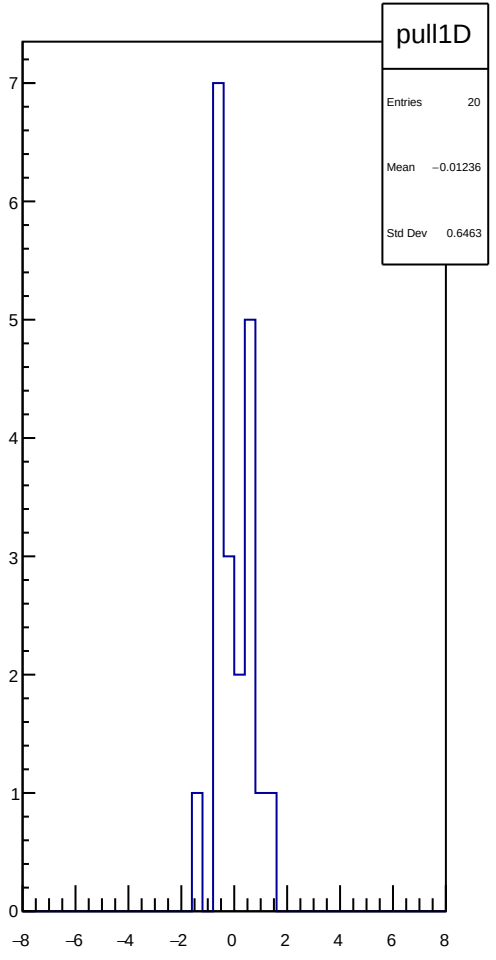

cor_asym_sam_15_dd_rms vs run
χ² / ndf 446.5 / 19
p0 84.9 ± 0.1334
90
88
86
84
82
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

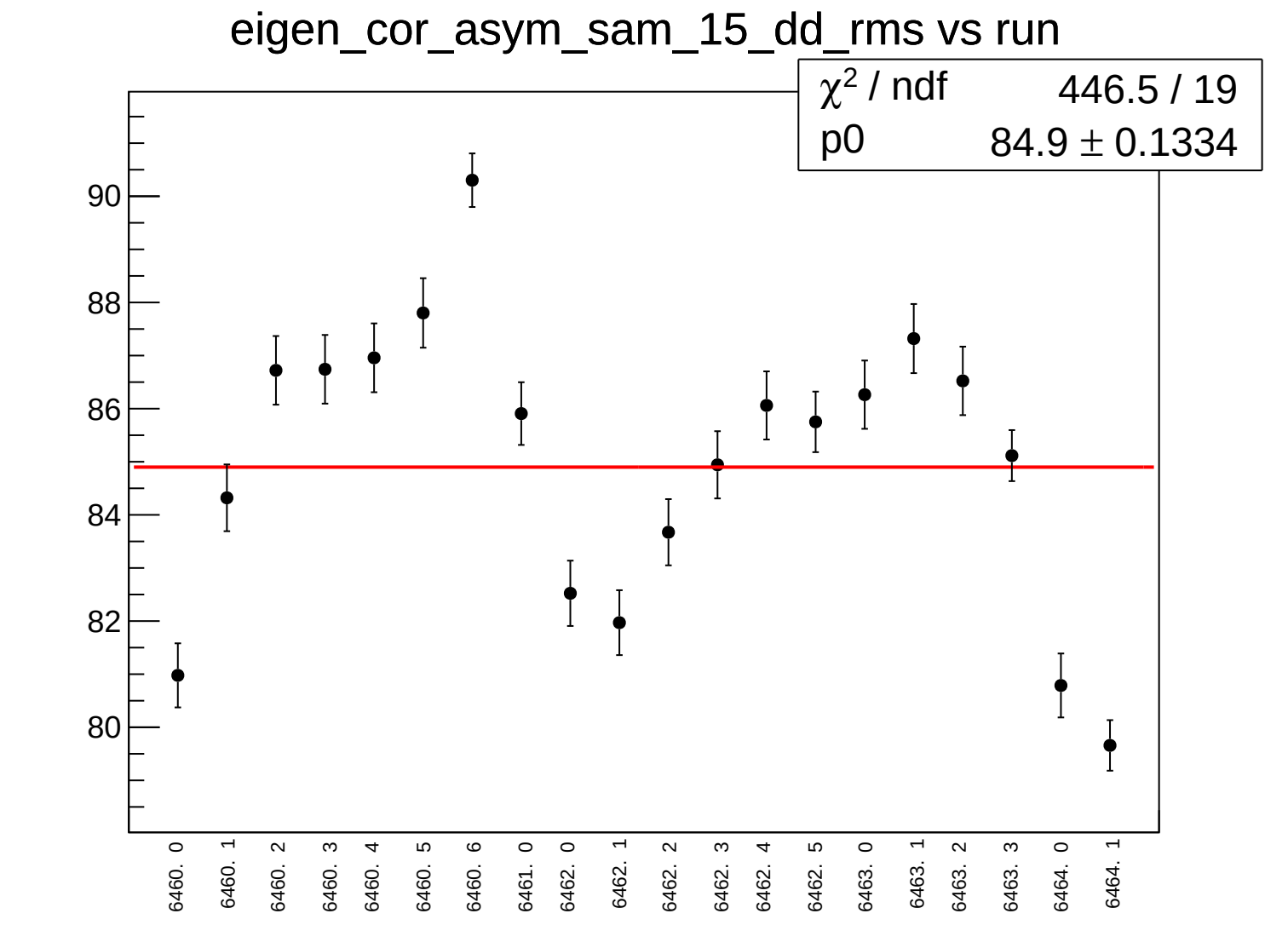

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 12.58 / 19
p0 531.1 ± 1121
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.596
Std Dev 1.736
1.5
1
0.5
0
−0.5
−1
−1.5

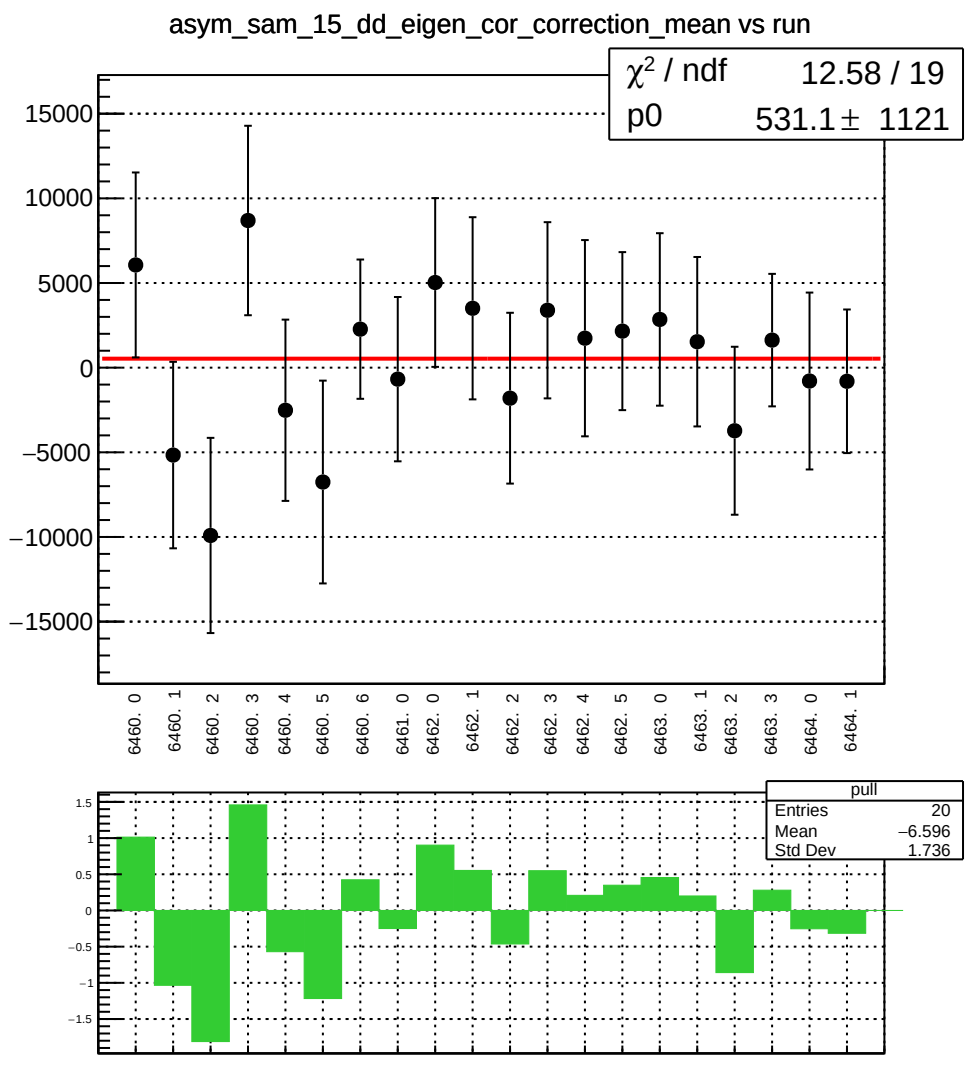

pull1D
Entries 20
Mean −0.01882
Std Dev 0.7927
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

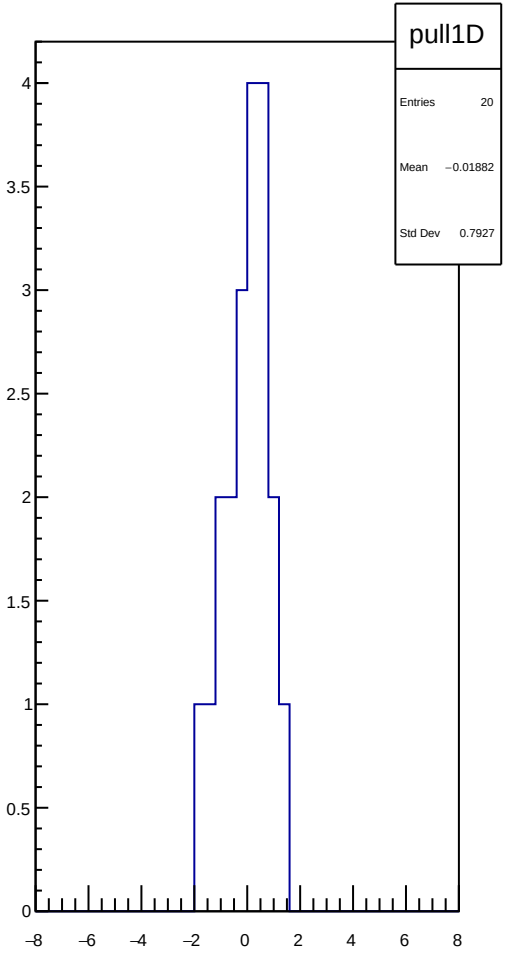

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 951.6 / 19
p0 503.8 ± 0.7924
580
560
540
520
500
480
460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

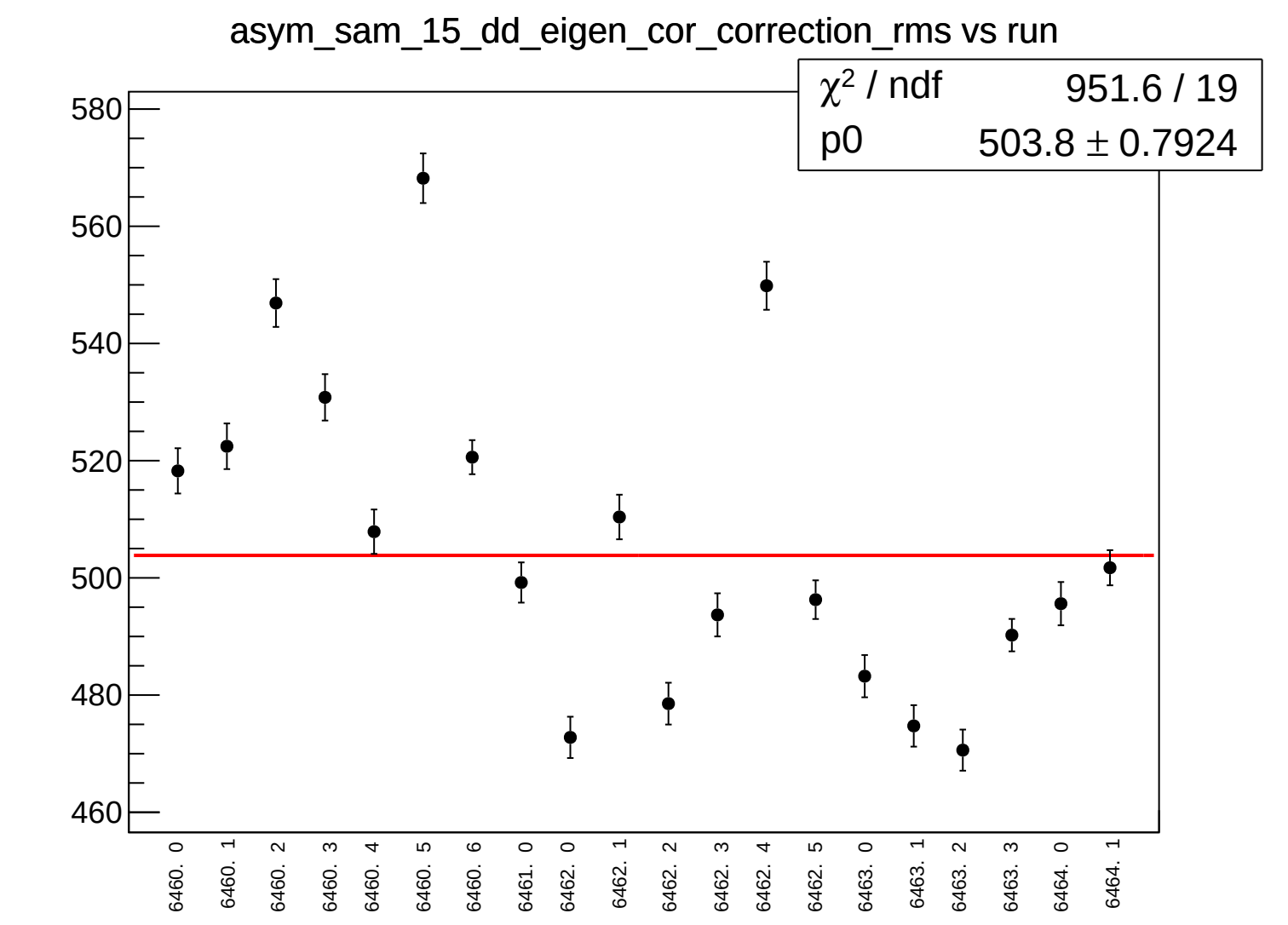

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 8.357 / 19
p0 192.6 ± 188.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.105
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

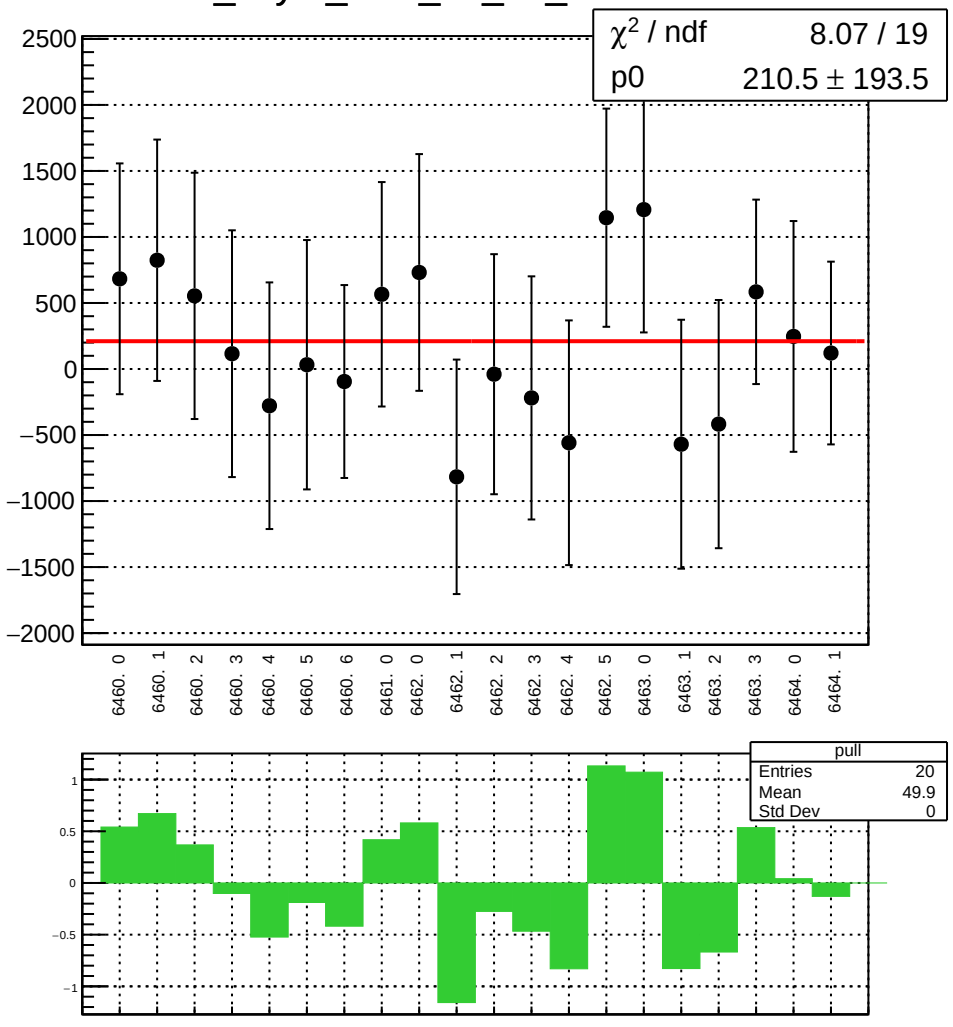

pull1D
Entries 20
Mean −0.01236
Std Dev 0.6463
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

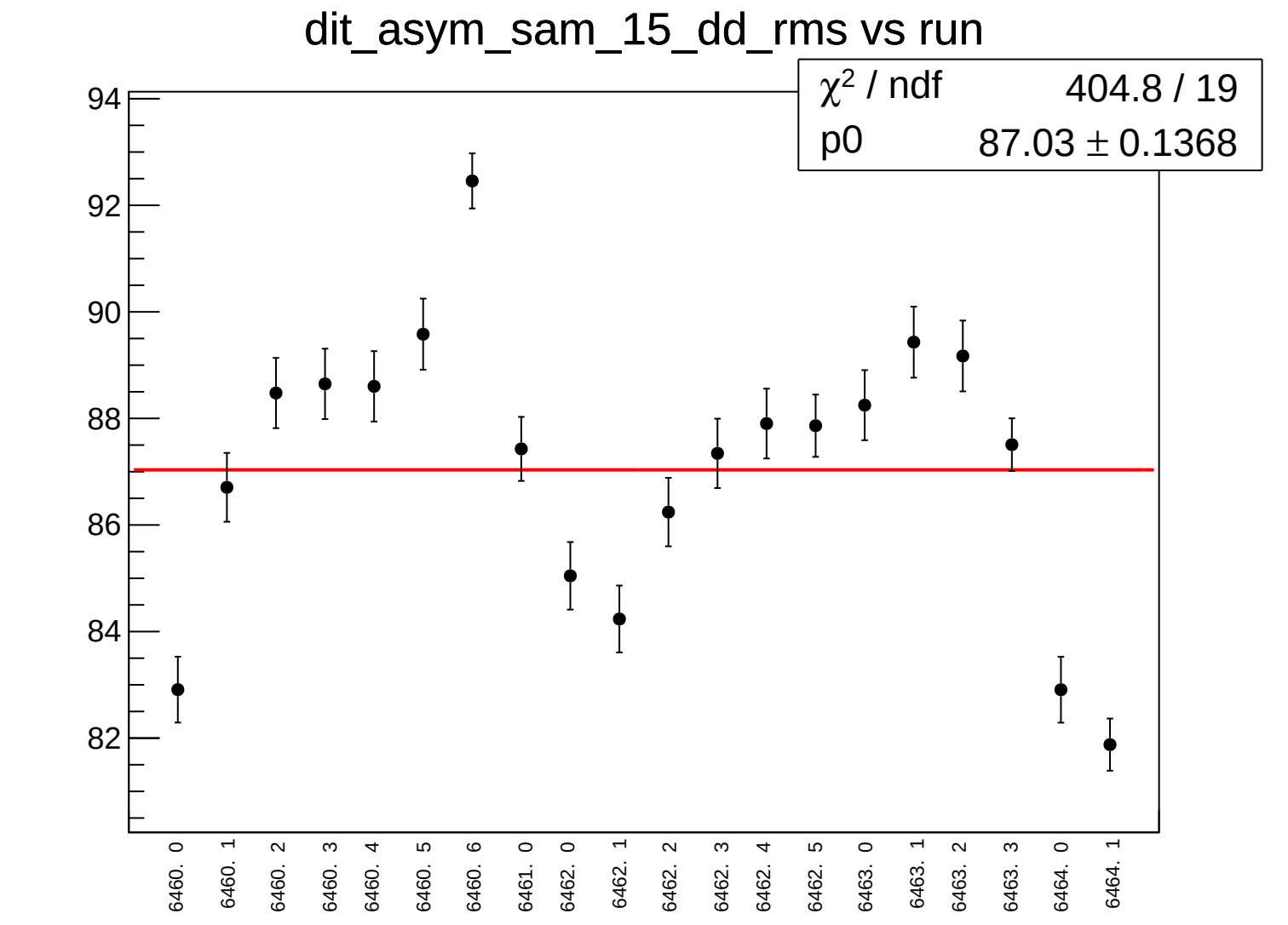

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 446.5 / 19
p0 84.9 ± 0.1334
90
88
86
84
82
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

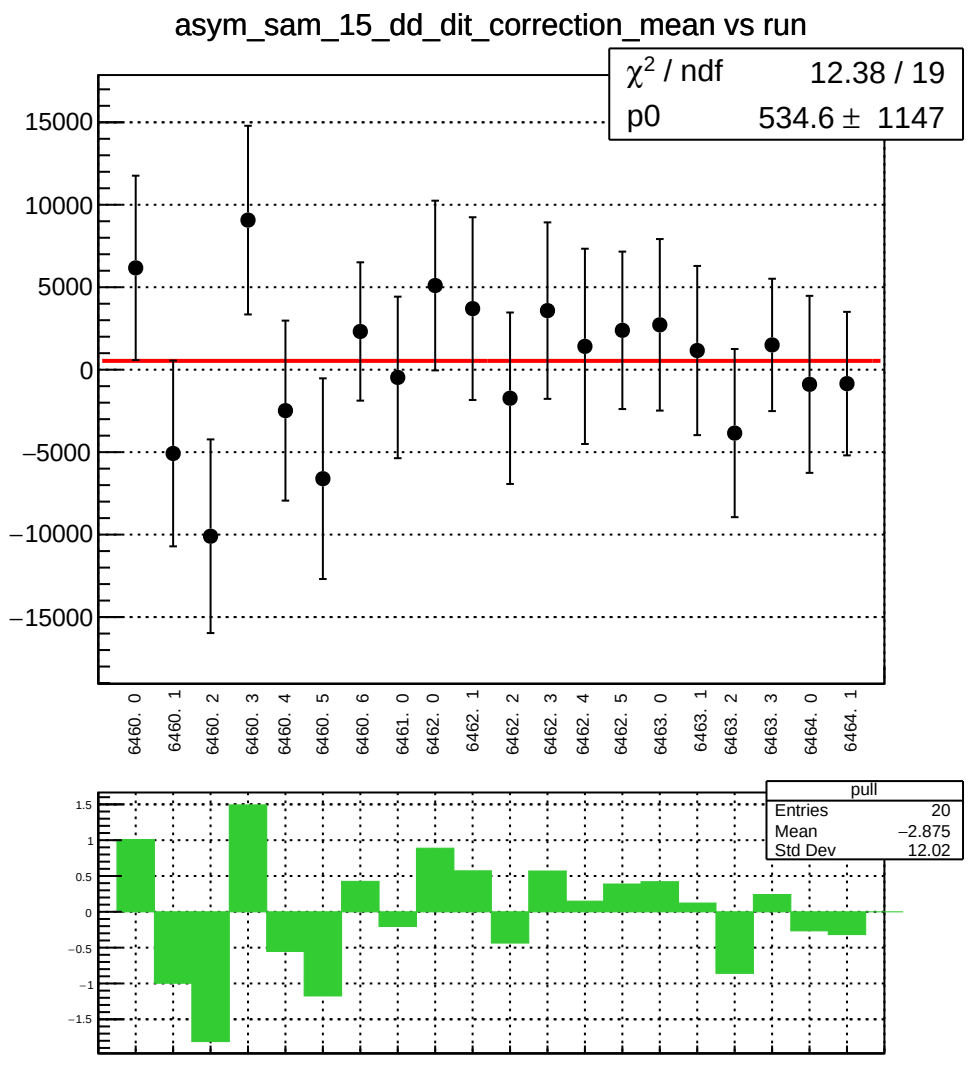

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 12.58 / 19
p0 531.1 ± 1121
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.596
Std Dev 1.736
1.5
1
0.5
0
−0.5
−1
−1.5

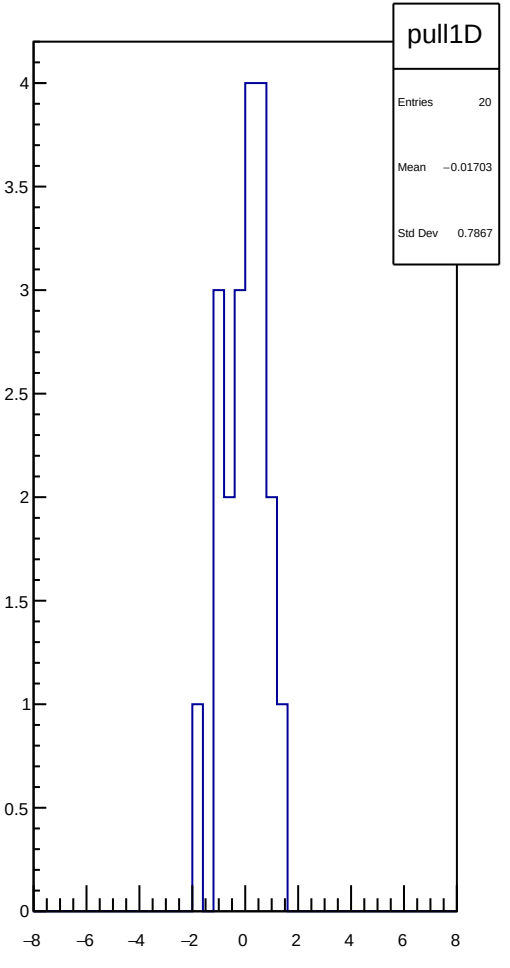

pull1D
Entries 20
Mean −0.01882
Std Dev 0.7927
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

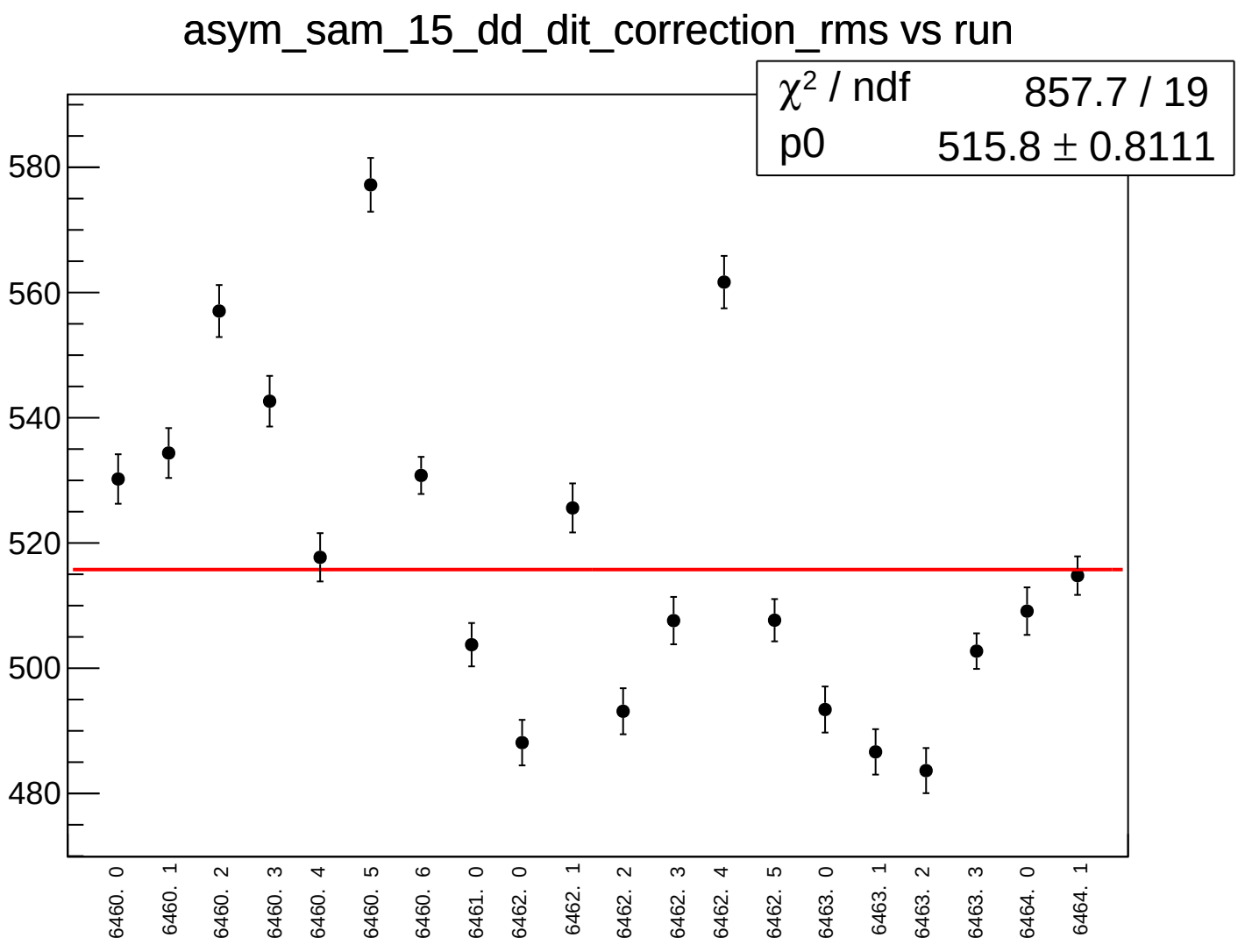

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 951.6 / 19
p0 503.8 ± 0.7924
580
560
540
520
500
480
460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

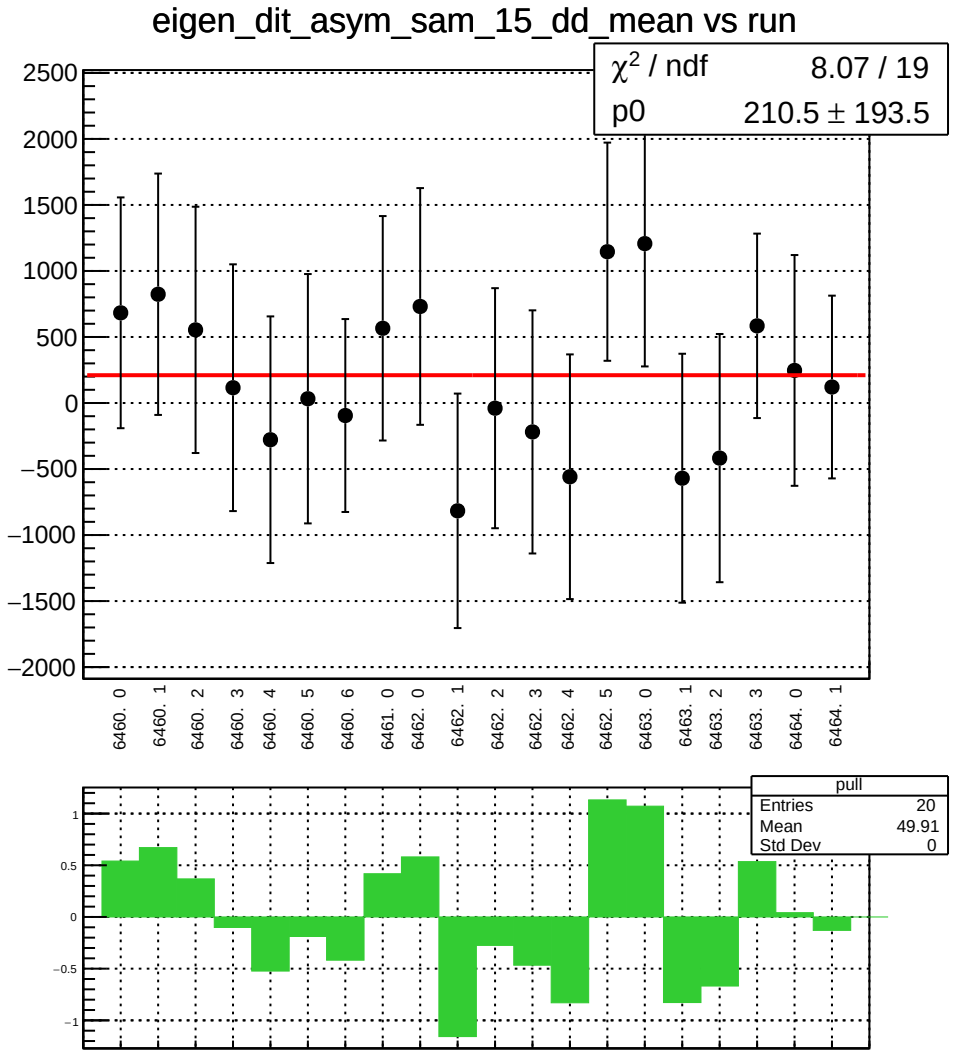

dit_asym_sam_15_dd_mean vs run
χ² / ndf 8.07 / 19
p0 210.5 ± 193.5
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 49.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01125
Std Dev 0.6351
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

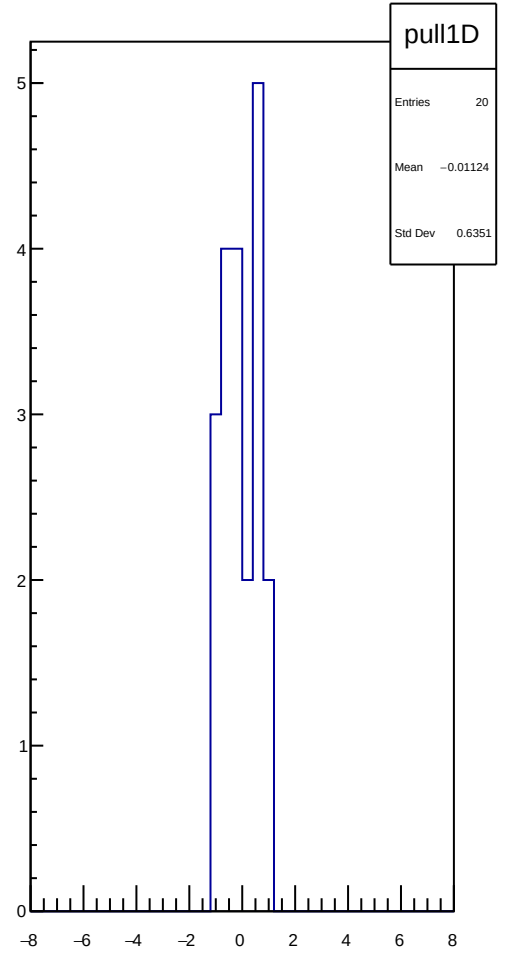

dit_asym_sam_15_dd_rms vs run
χ² / ndf 404.8 / 19
p0 87.03 ± 0.1368
94
92
90
88
86
84
82
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

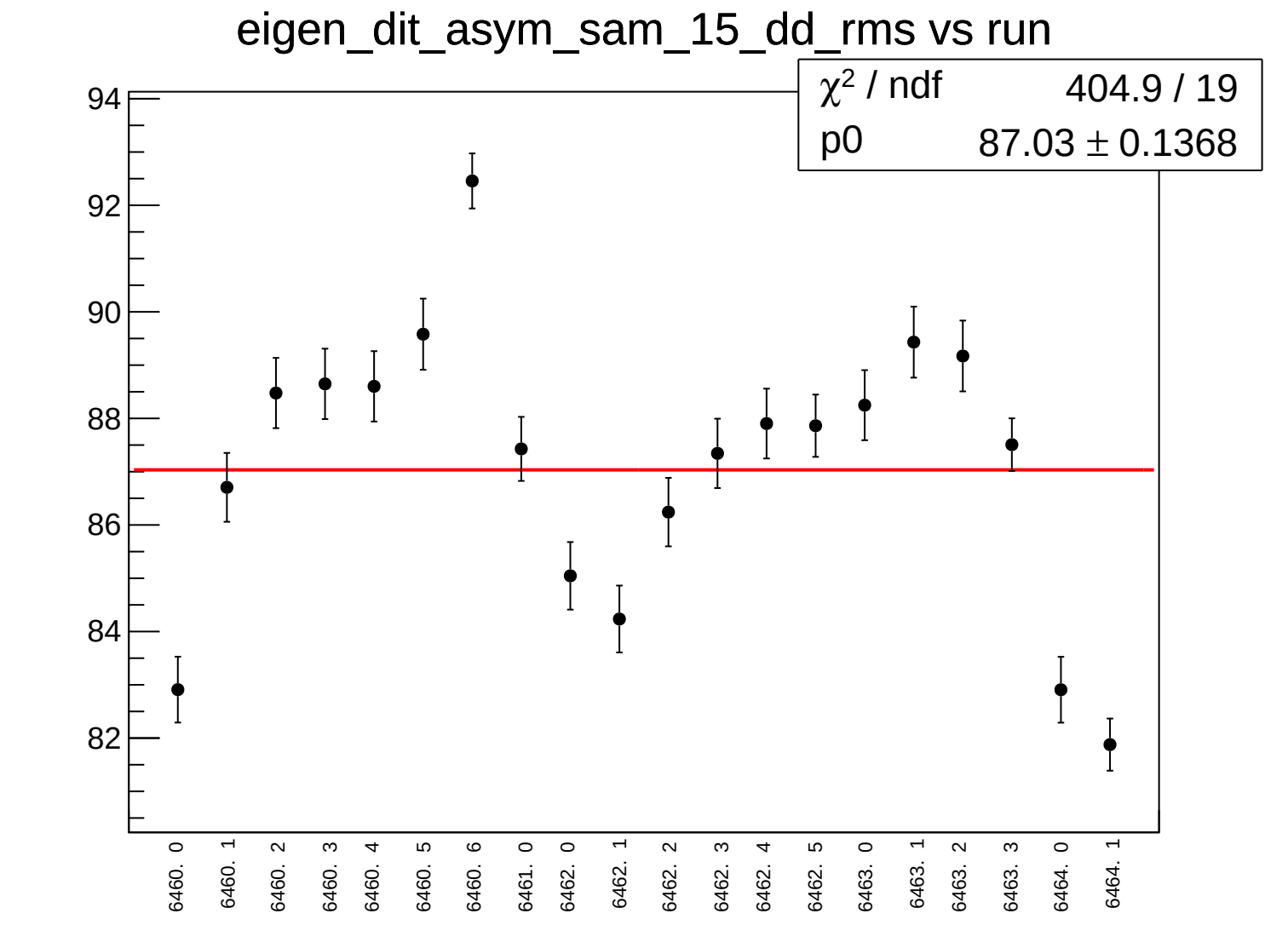

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 12.38 / 19
p0 534.6 ± 1147
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.875
Std Dev 12.02
1.5
1
0.5
0
−0.5
−1
−1.5

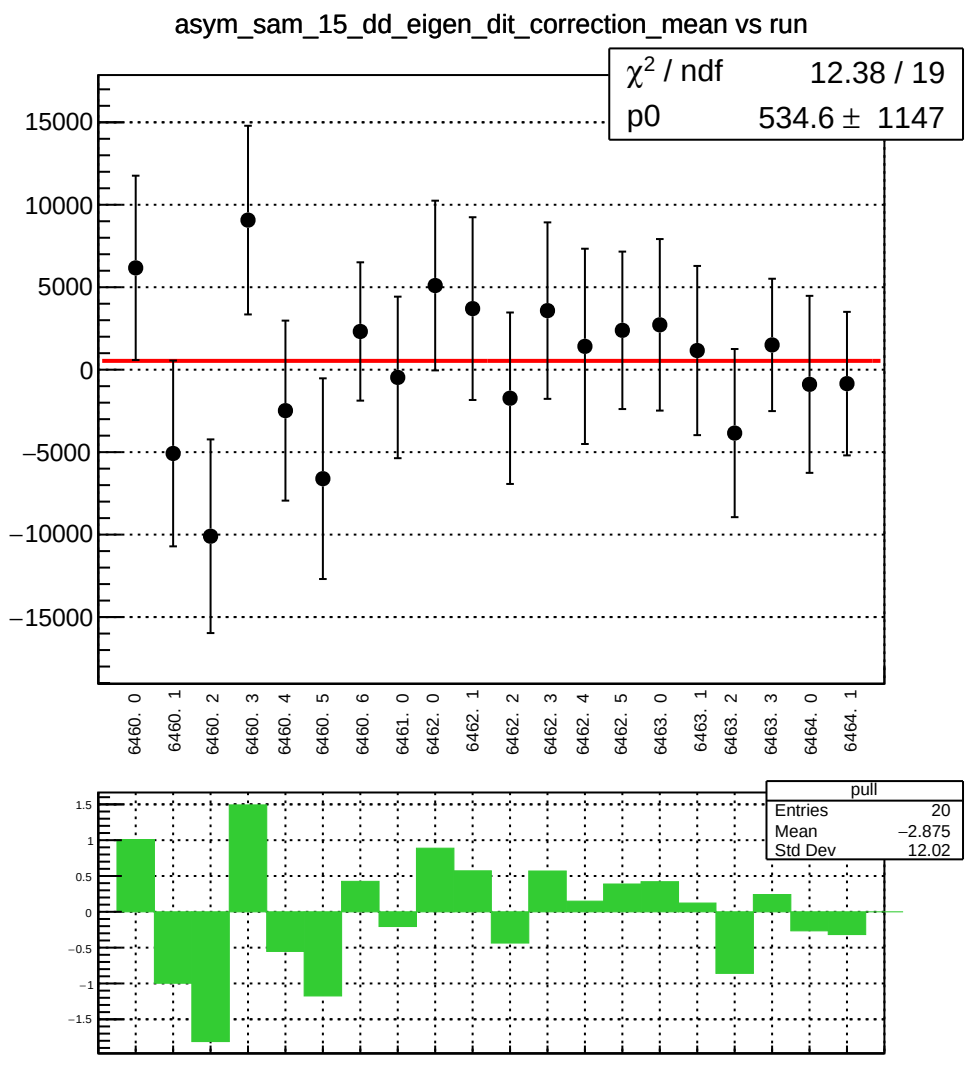

pull1D
Entries 20
Mean −0.01703
Std Dev 0.7867
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

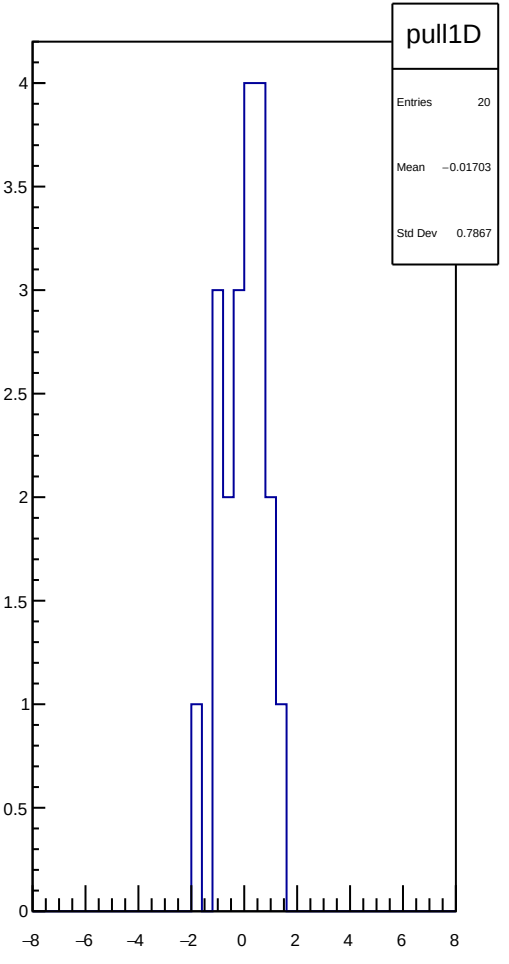

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 857.7 / 19
p0 515.8 ± 0.8111
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

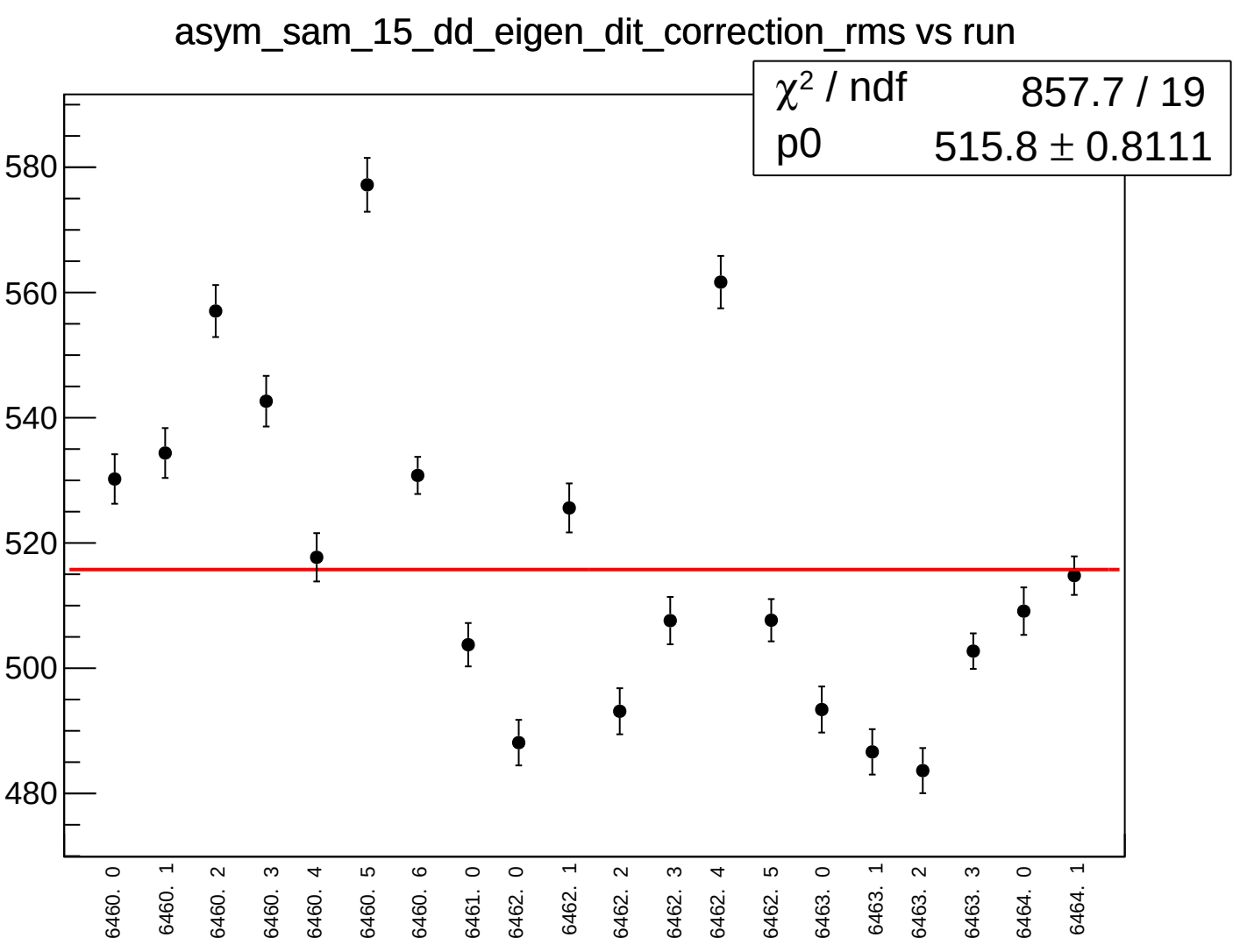

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 8.07 / 19
p0 210.5 ± 193.5
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 49.91
Std Dev 0
1
0.5
0
−0.5
−1

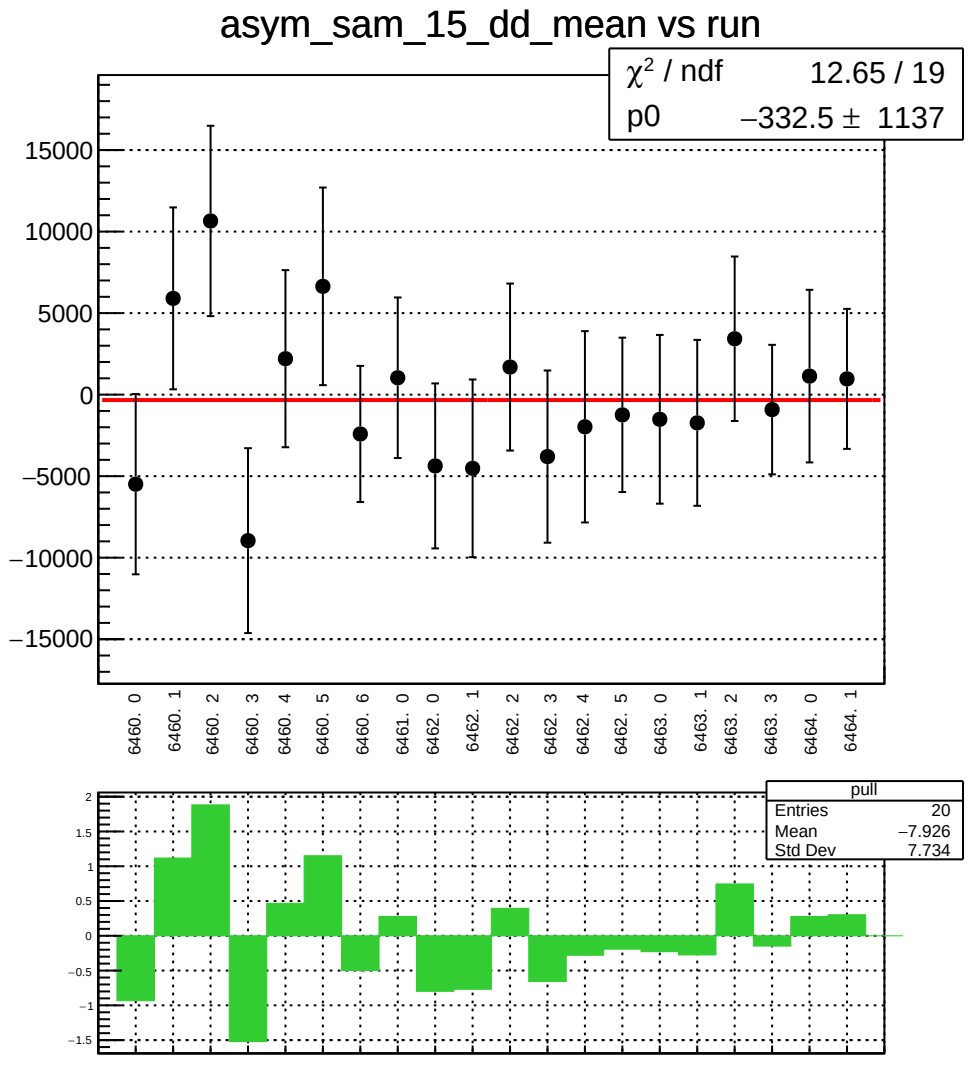

pull1D
Entries 20
Mean −0.01124
Std Dev 0.6351
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

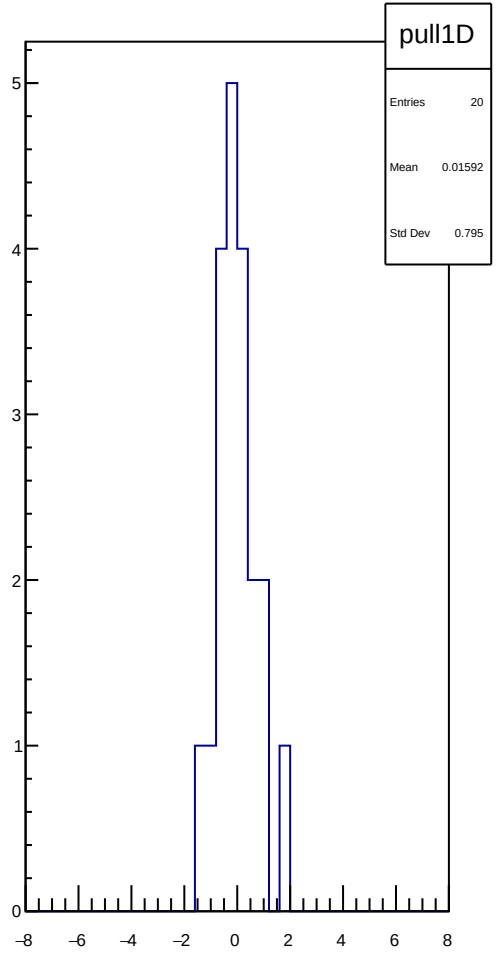

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 404.9 / 19
p0 87.03 ± 0.1368
94
92
90
88
86
84
82
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

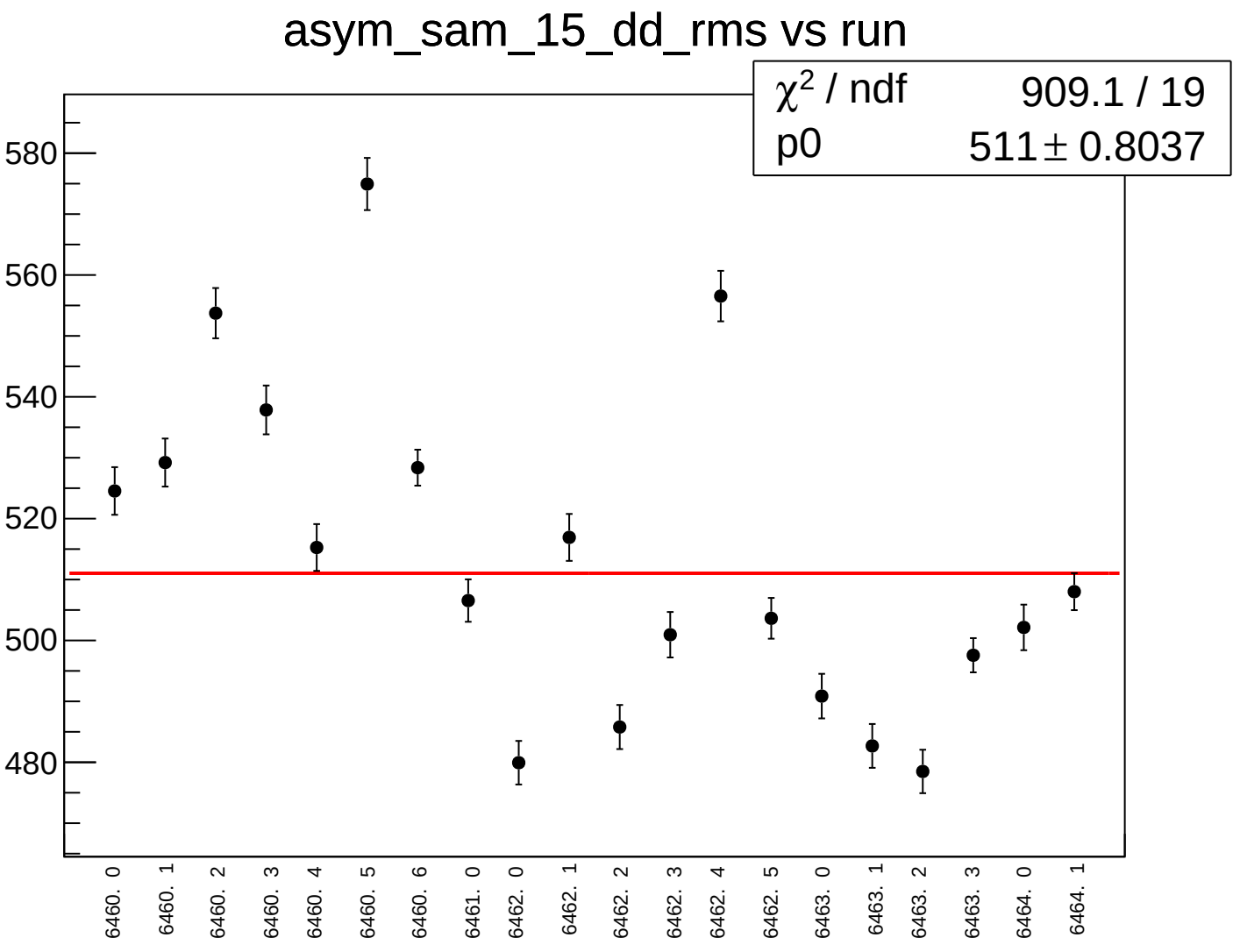

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 12.38 / 19
p0 534.6 ± 1147
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.875
Std Dev 12.02
1.5
1
0.5
0
−0.5
−1
−1.5

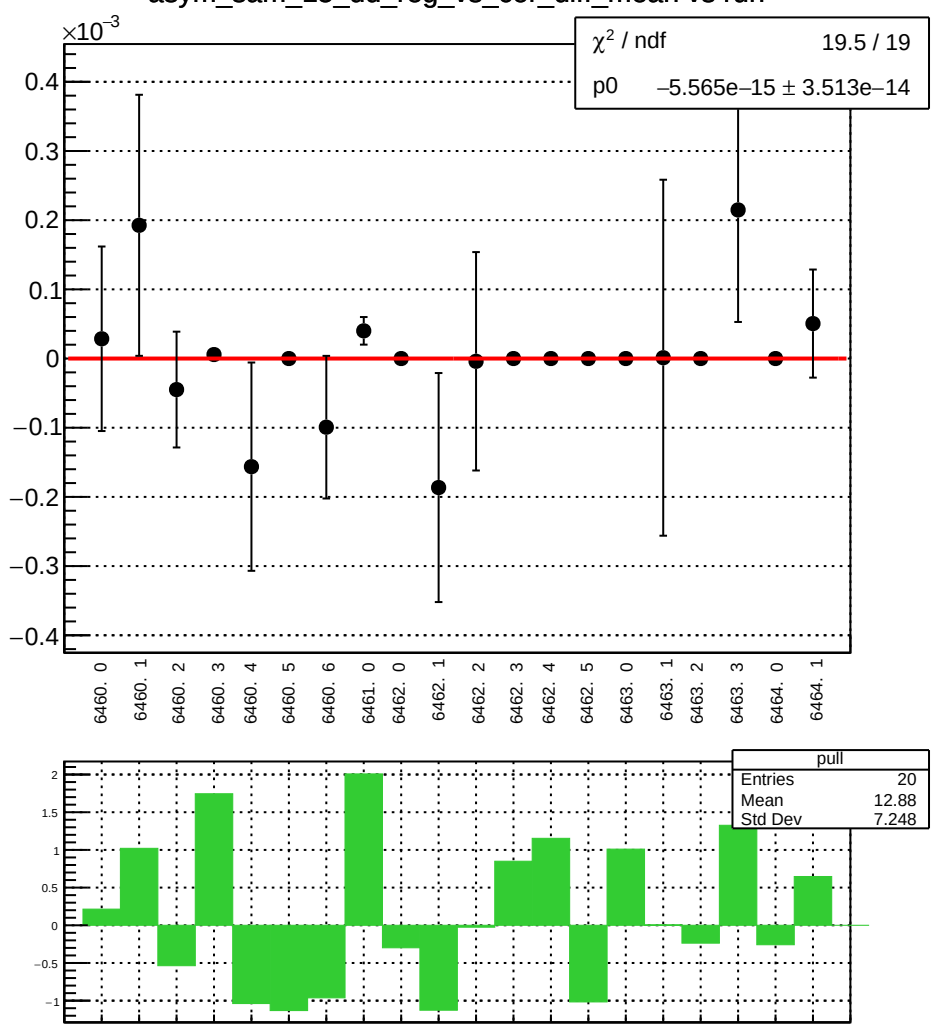

pull1D
Entries 20
Mean −0.01703
Std Dev 0.7867
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

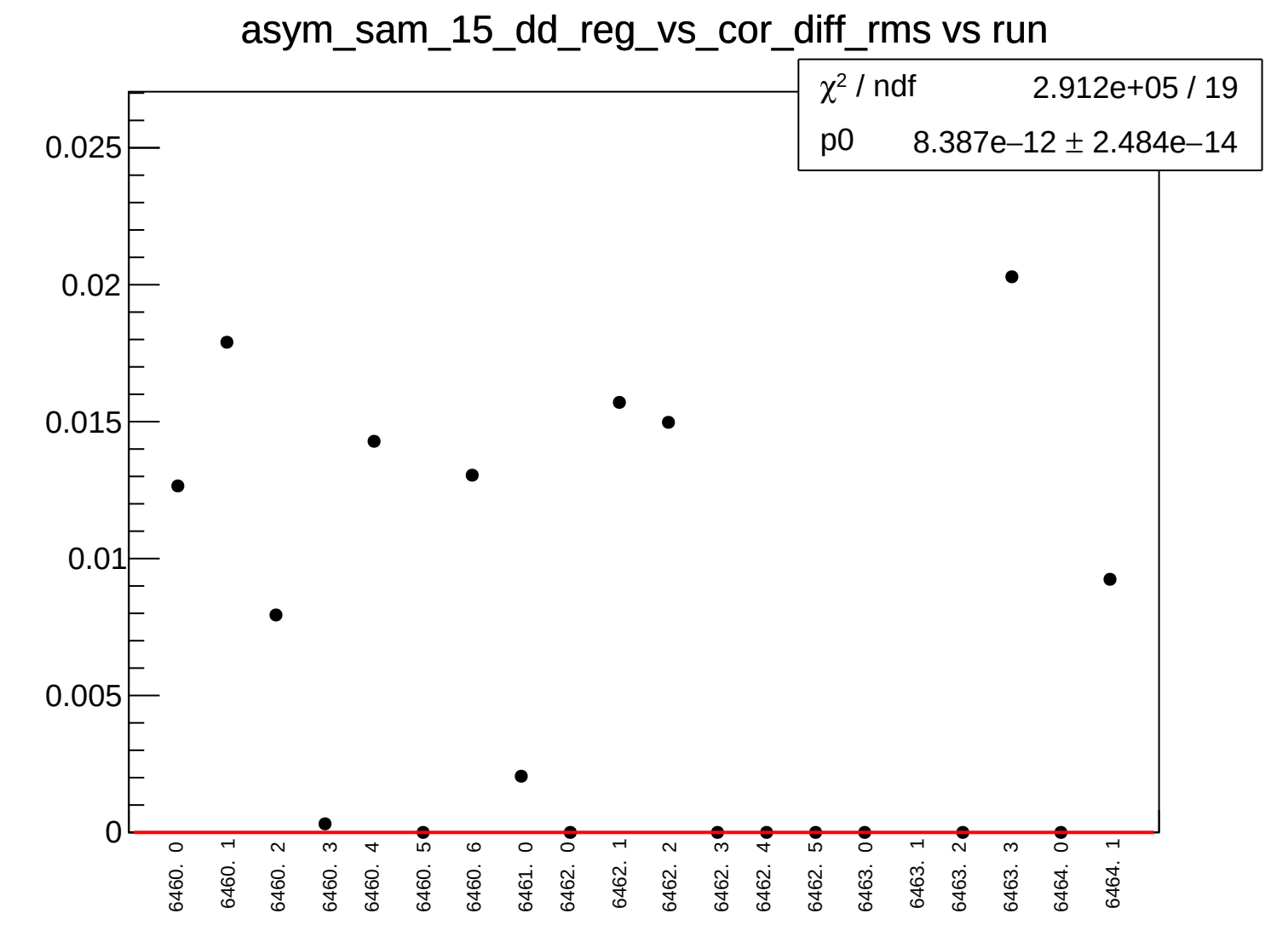

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 857.7 / 19
p0 515.8 ± 0.8111
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

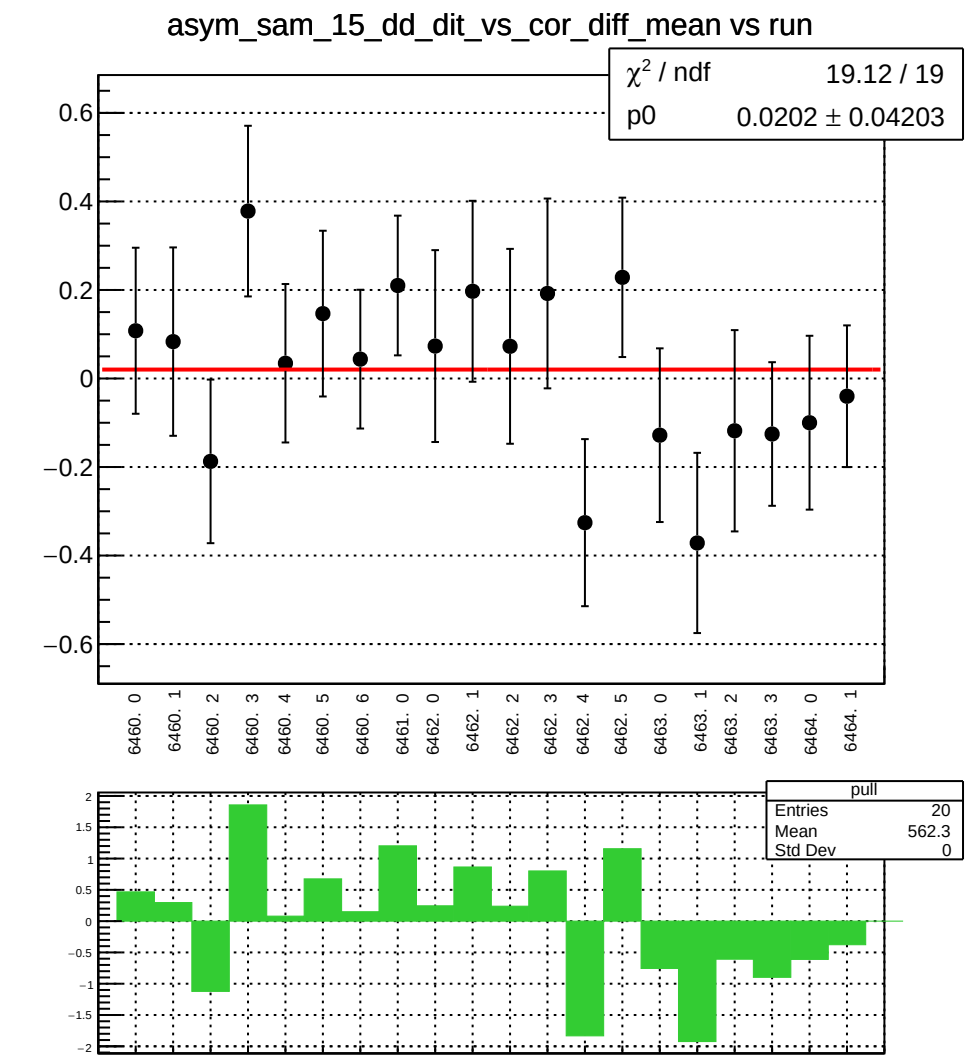

asym_sam_15_dd_mean vs run
χ² / ndf 12.65 / 19
p0 −332.5 ± 1137
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −7.926
Std Dev 7.734
2
1.5
1
0.5
0
−0.5
−1
−1.5

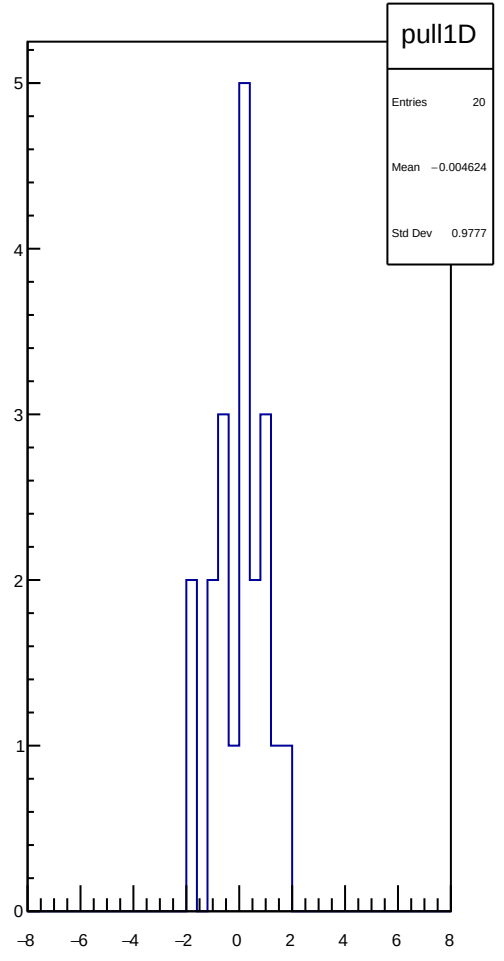

pull1D
Entries 20
Mean 0.01592
Std Dev 0.795
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

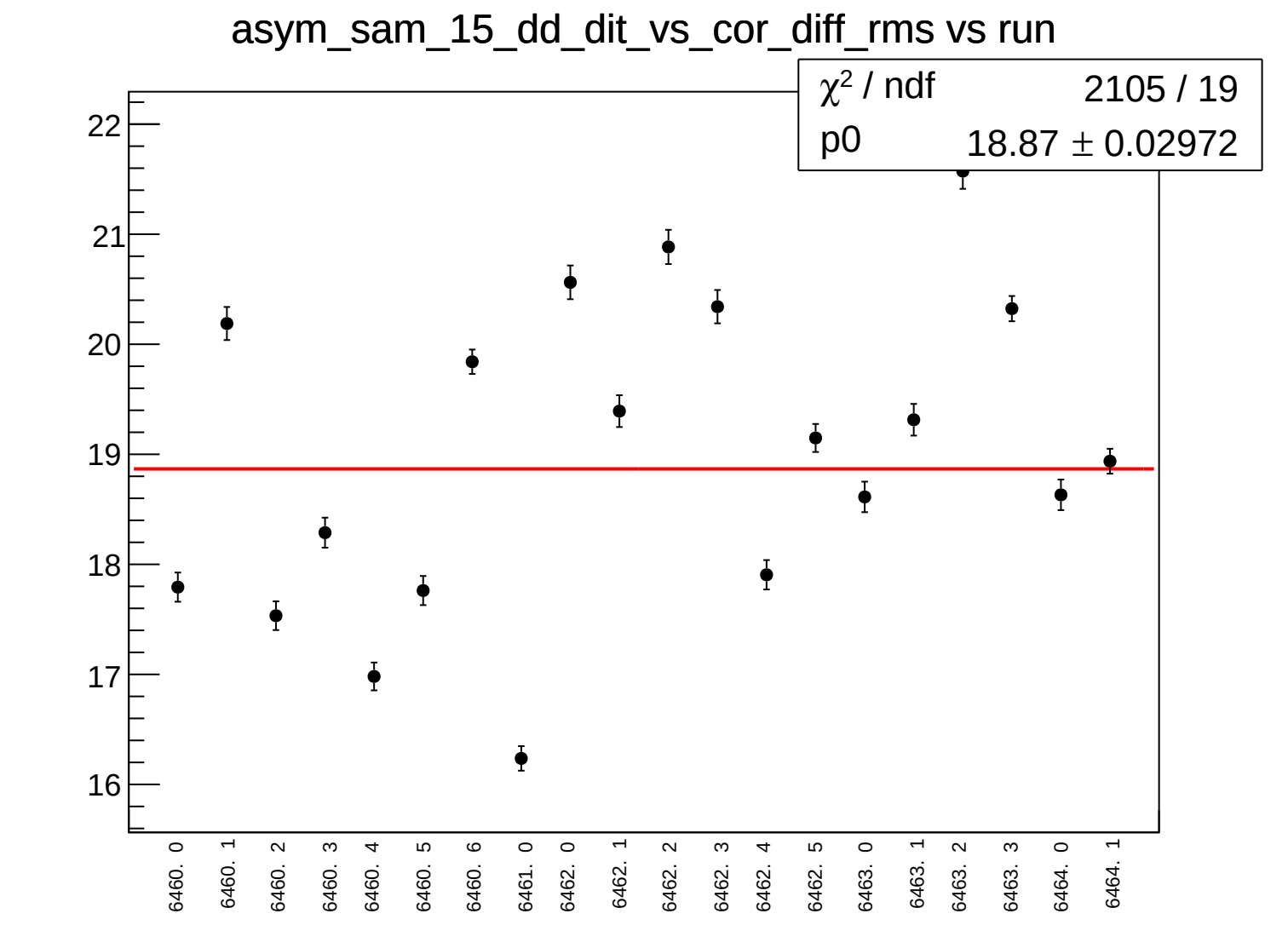

asym_sam_15_dd_rms vs run
χ^2 / ndf 909.1 / 19
p0 511 ± 0.8037
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

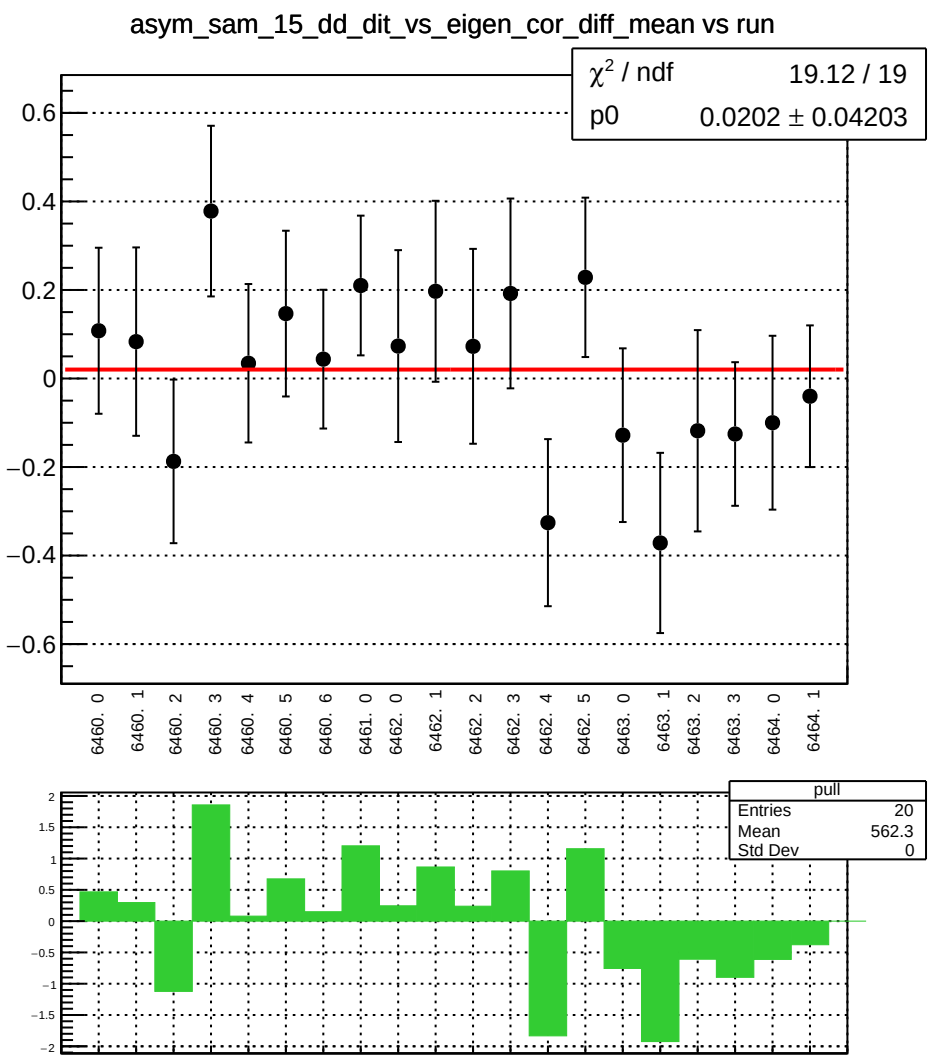

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 19.5 / 19
p0 −5.565e−15 ± 3.513e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.88
Std Dev 7.248
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.1675
Std Dev 0.9731
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

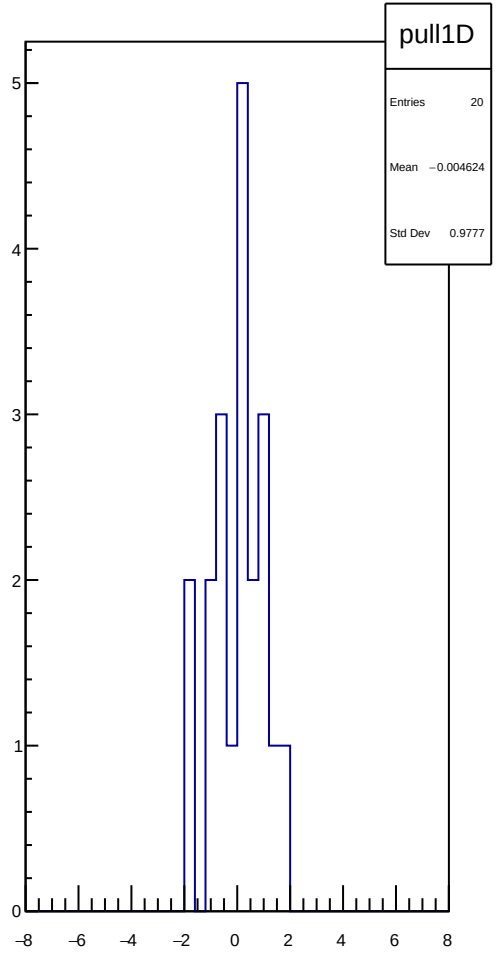

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.912e+05 / 19
p0 8.387e−12 ± 2.484e−14
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

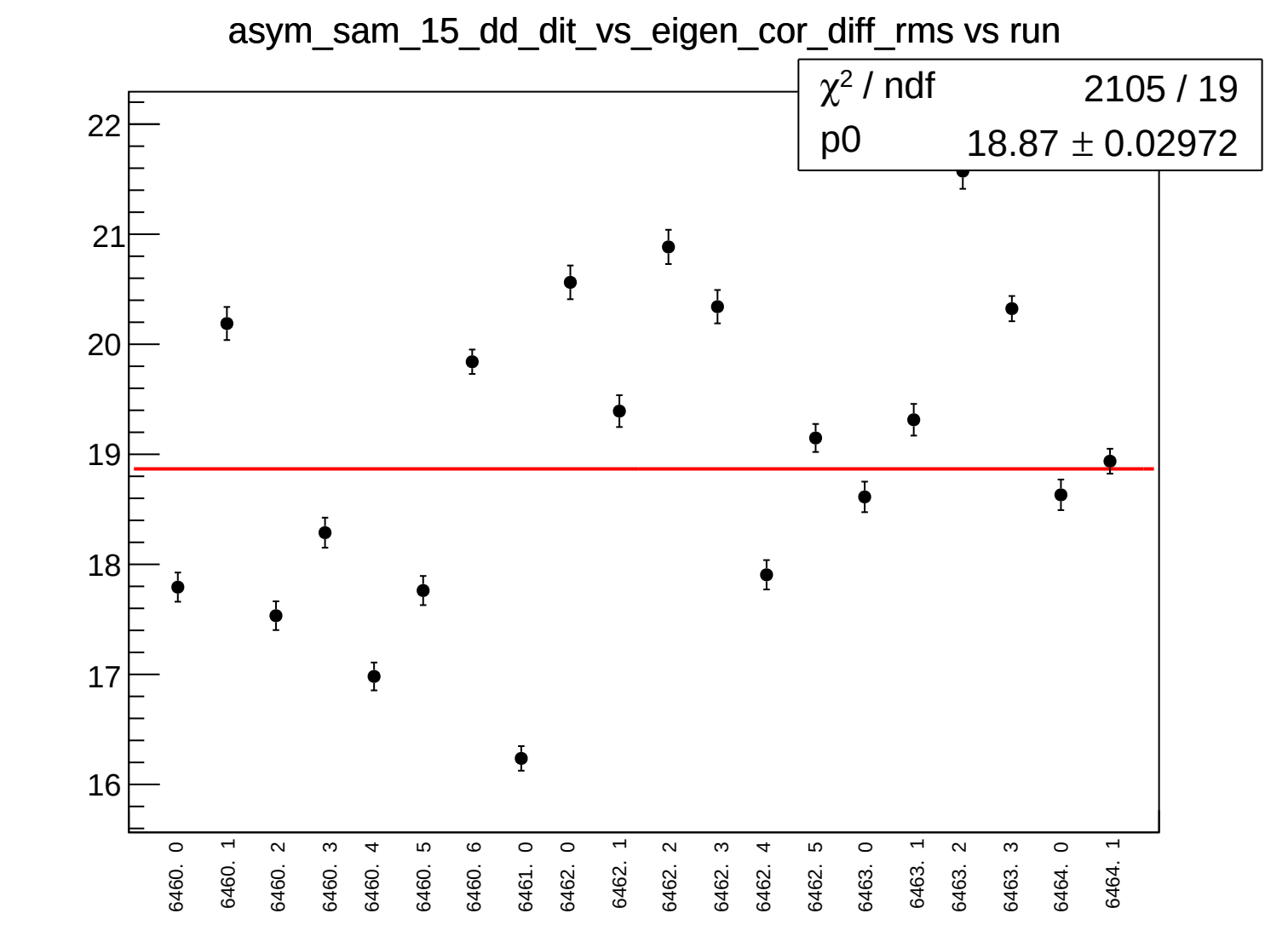

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 19.12 / 19
p0 0.0202 ± 0.04203
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 562.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

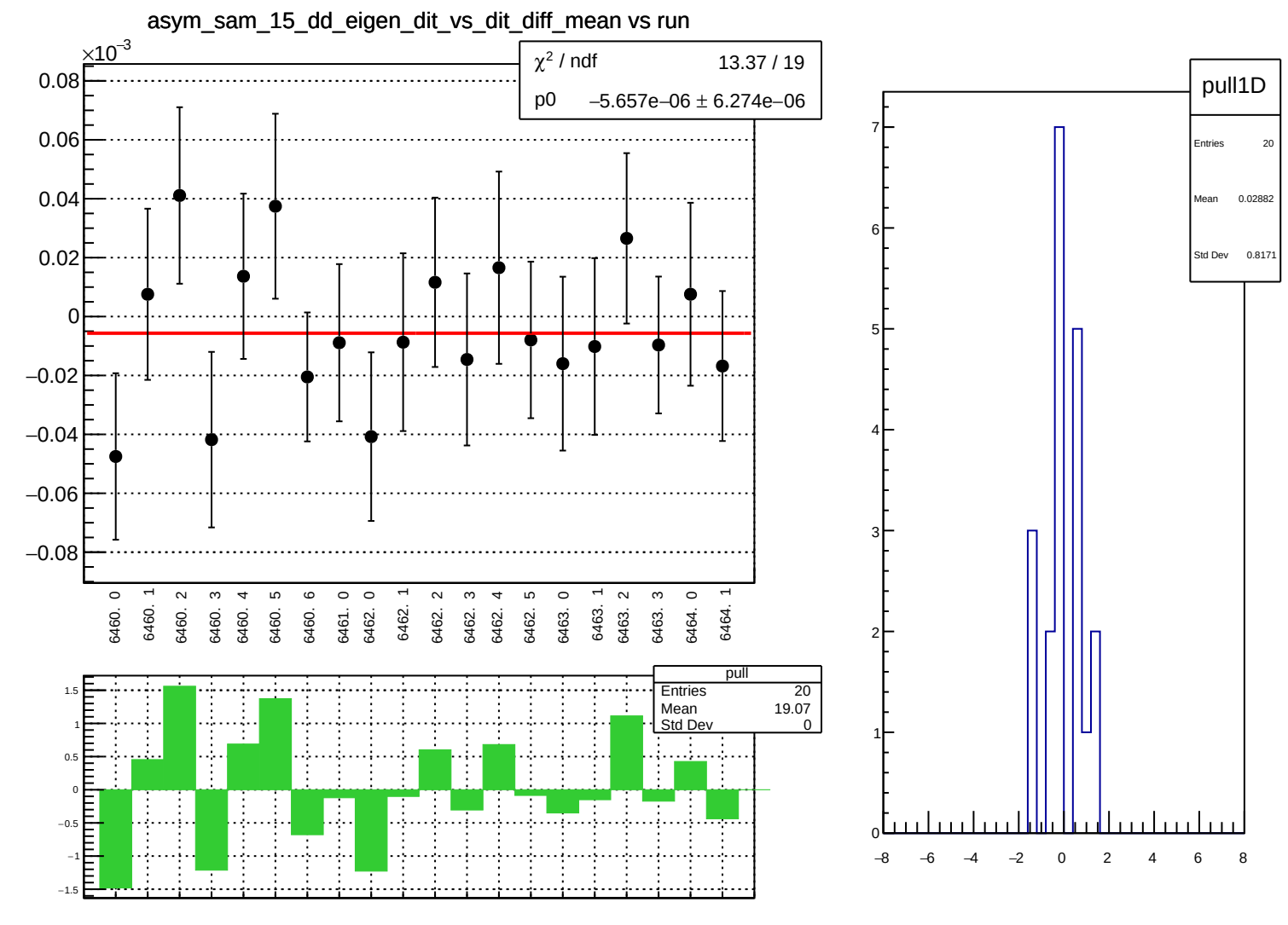

pull1D
Entries 20
Mean −0.004624
Std Dev 0.9777
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

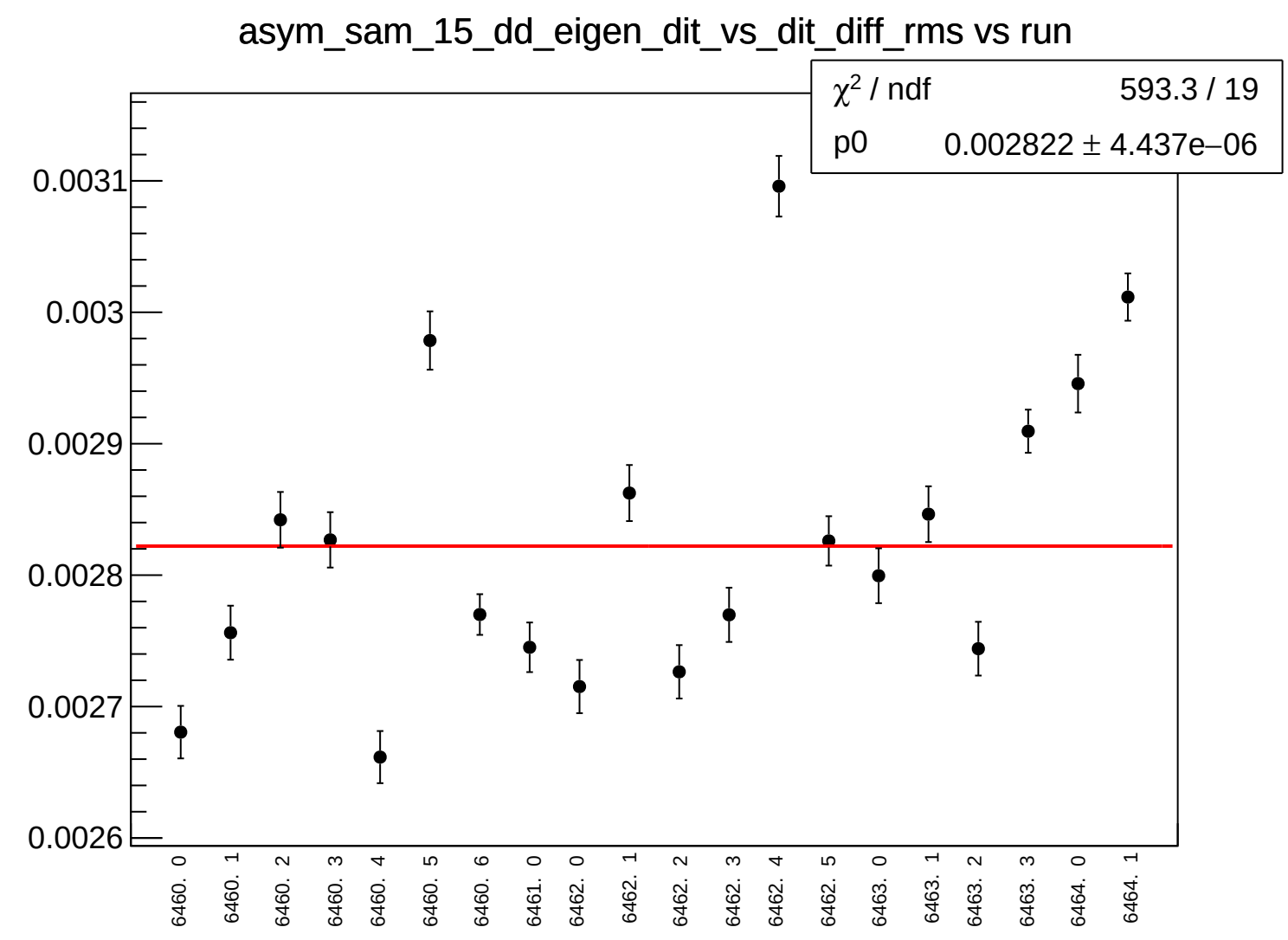

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2105 / 19
p0 18.87 ± 0.02972
22
21
20
19
18
17
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

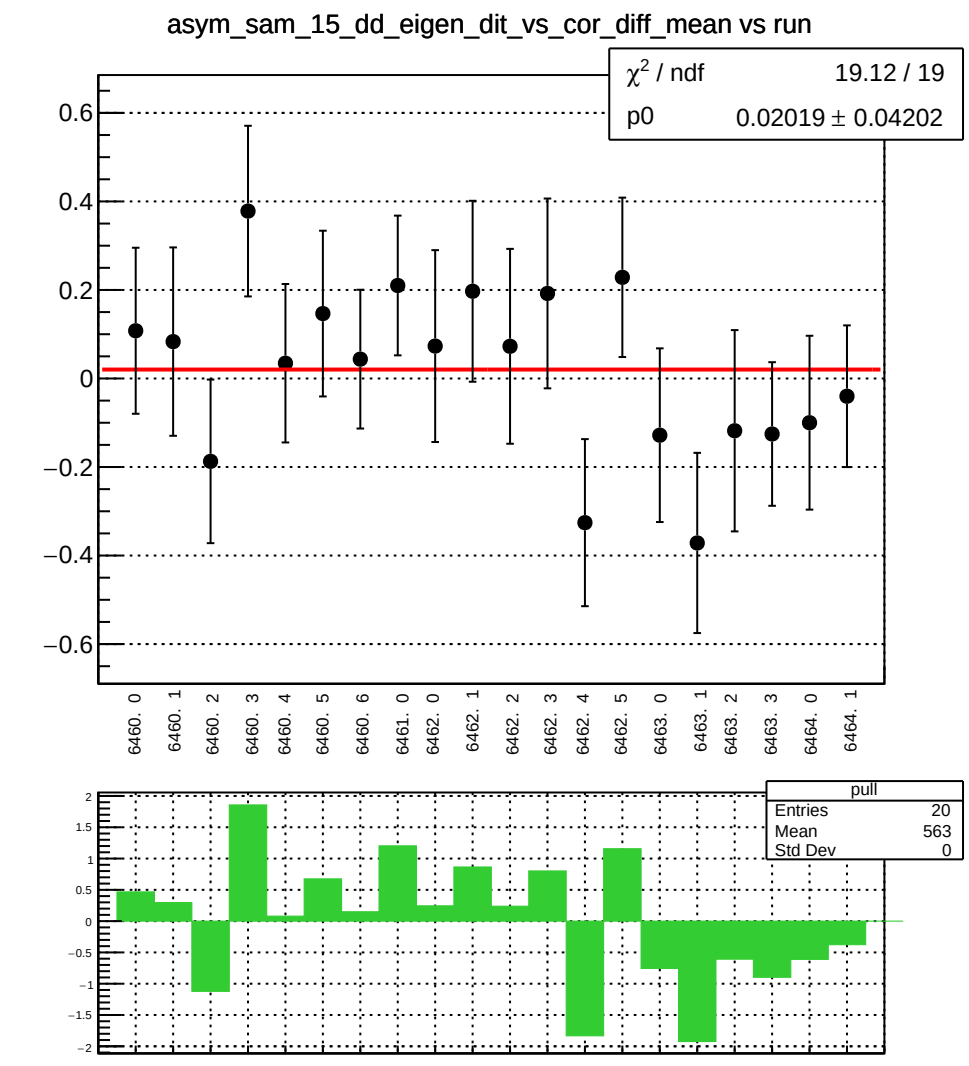

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.12 / 19
p0 0.0202 ± 0.04203
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 562.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

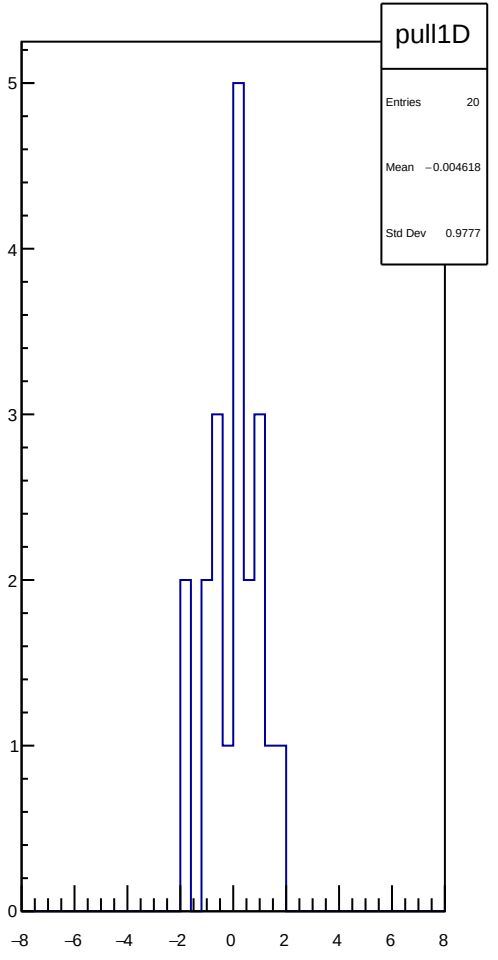

pull1D
Entries 20
Mean −0.004624
Std Dev 0.9777
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

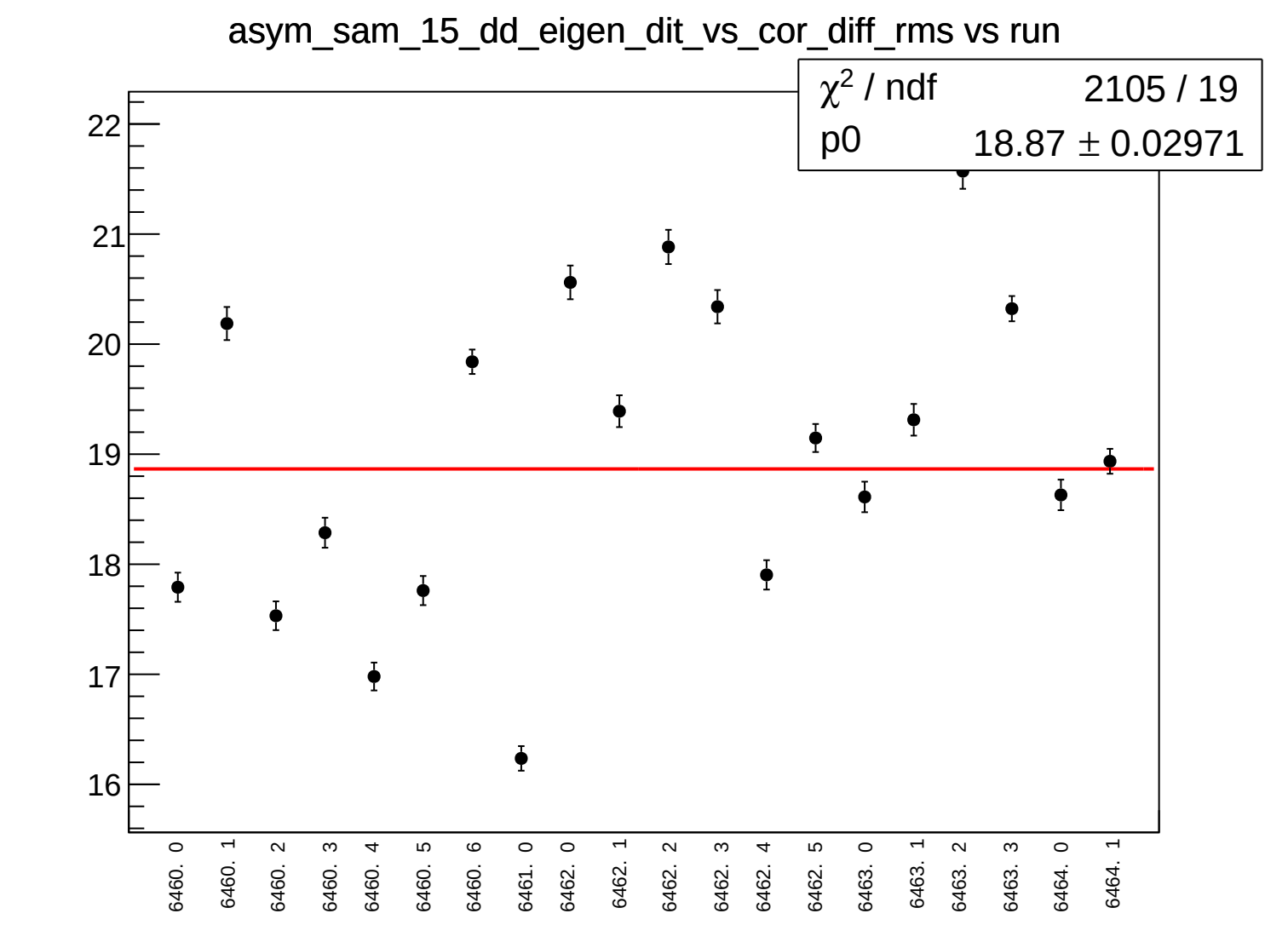

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2105 / 19
p0 18.87 ± 0.02972
22
21
20
19
18
17
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

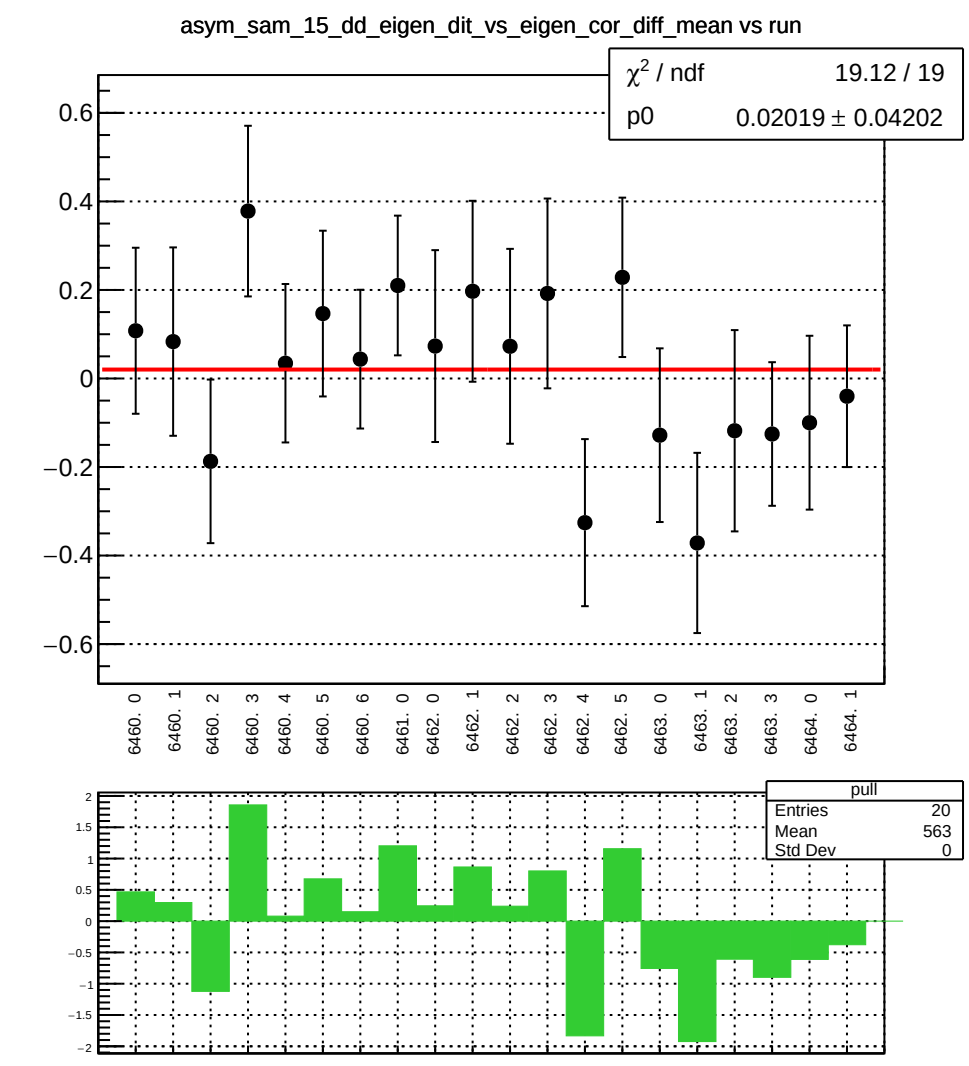

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 13.37 / 19
p0 −5.657e−06 ± 6.274e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 19.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02882
Std Dev 0.8171
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

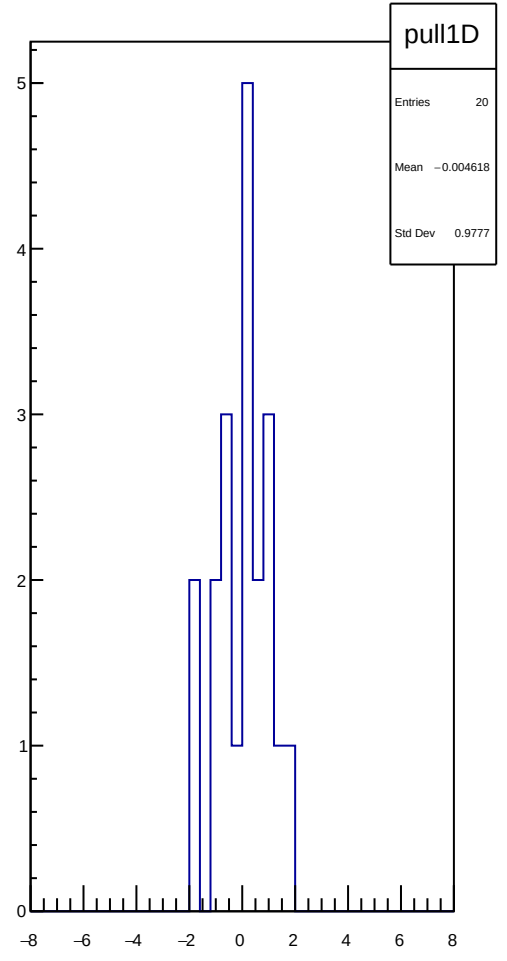

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 593.3 / 19
p0 0.002822 ± 4.437e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

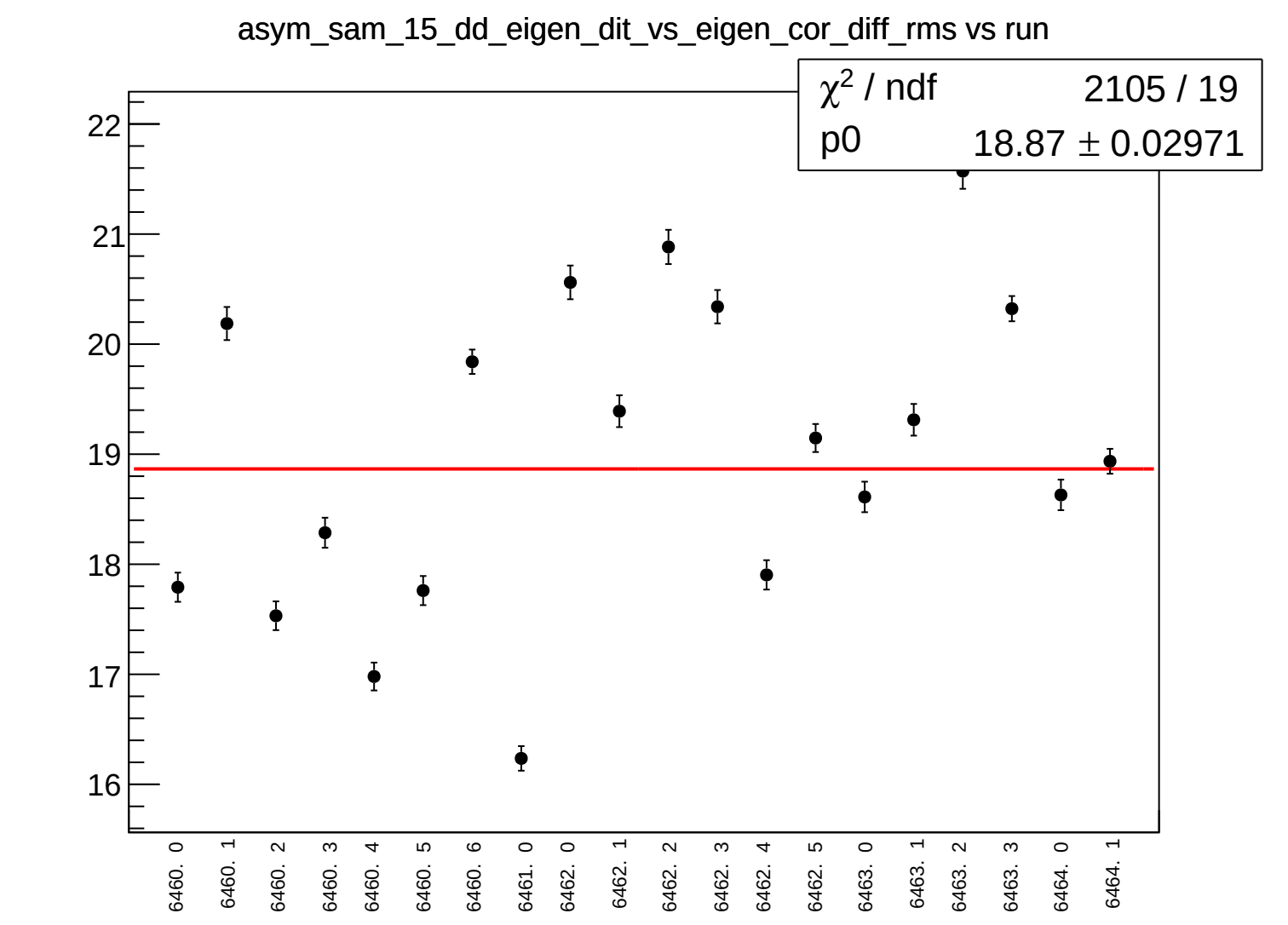

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.12 / 19
p0 0.02019 ± 0.04202
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 563
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

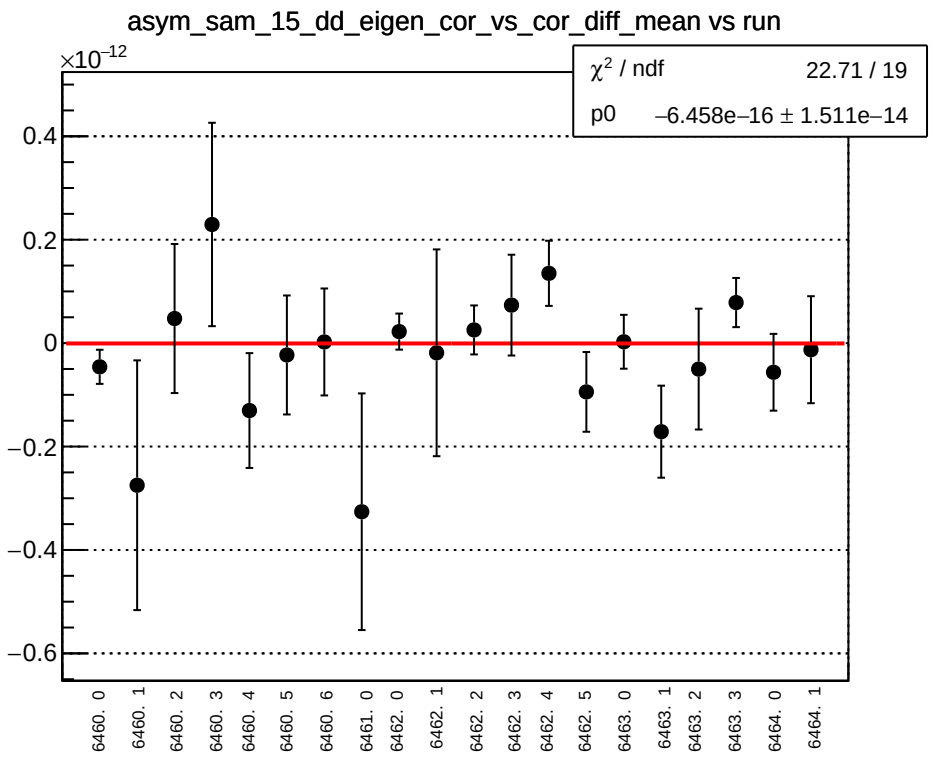

pull1D
Entries 20
Mean −0.004618
Std Dev 0.9777
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

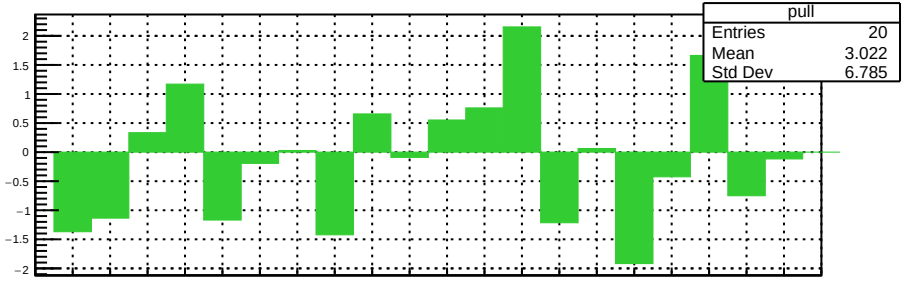

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2105 / 19
p0 18.87 ± 0.02971
22
21
20
19
18
17
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

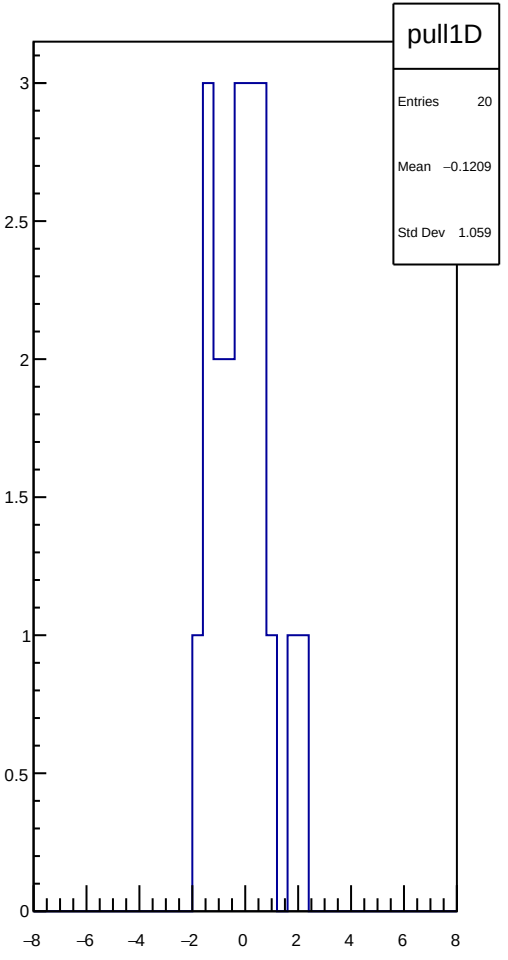

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.12 / 19
p0 0.02019 ± 0.04202
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 563
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

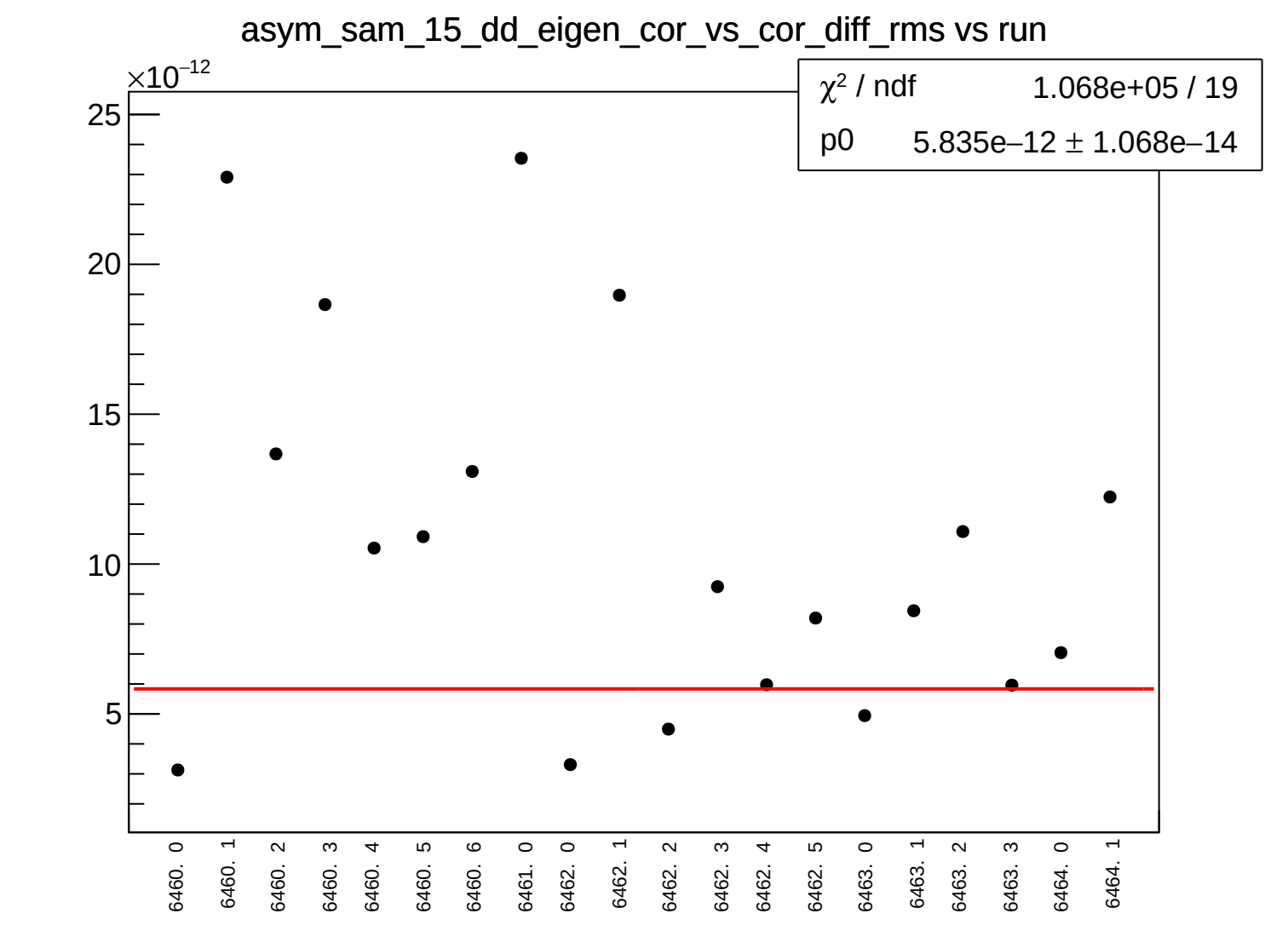

pull1D
Entries 20
Mean −0.004618
Std Dev 0.9777
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

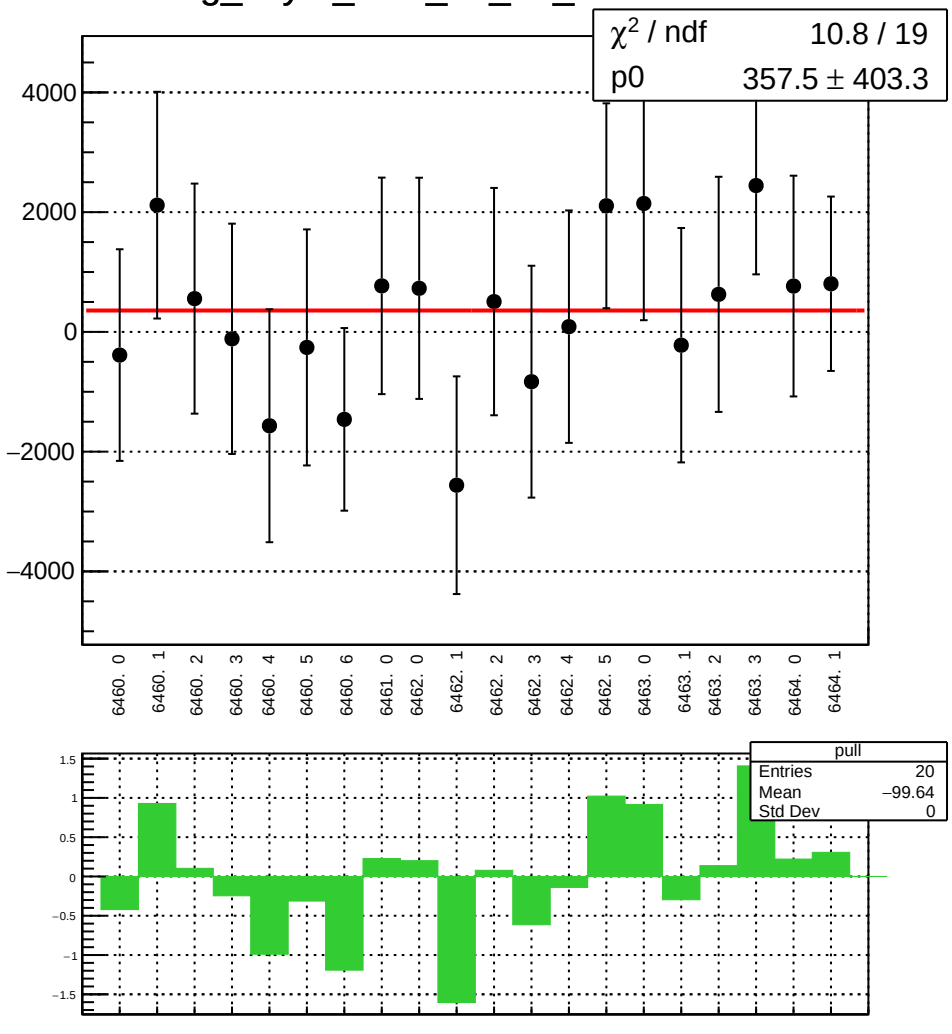

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2105 / 19
p0 18.87 ± 0.02971
22
21
20
19
18
17
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

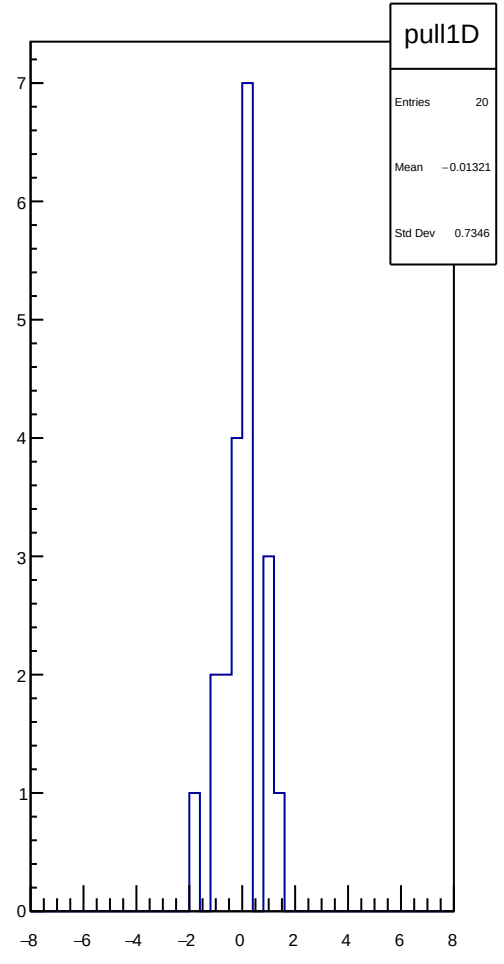

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.71 / 19
p0 −6.458e−16 ± 1.511e−14
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

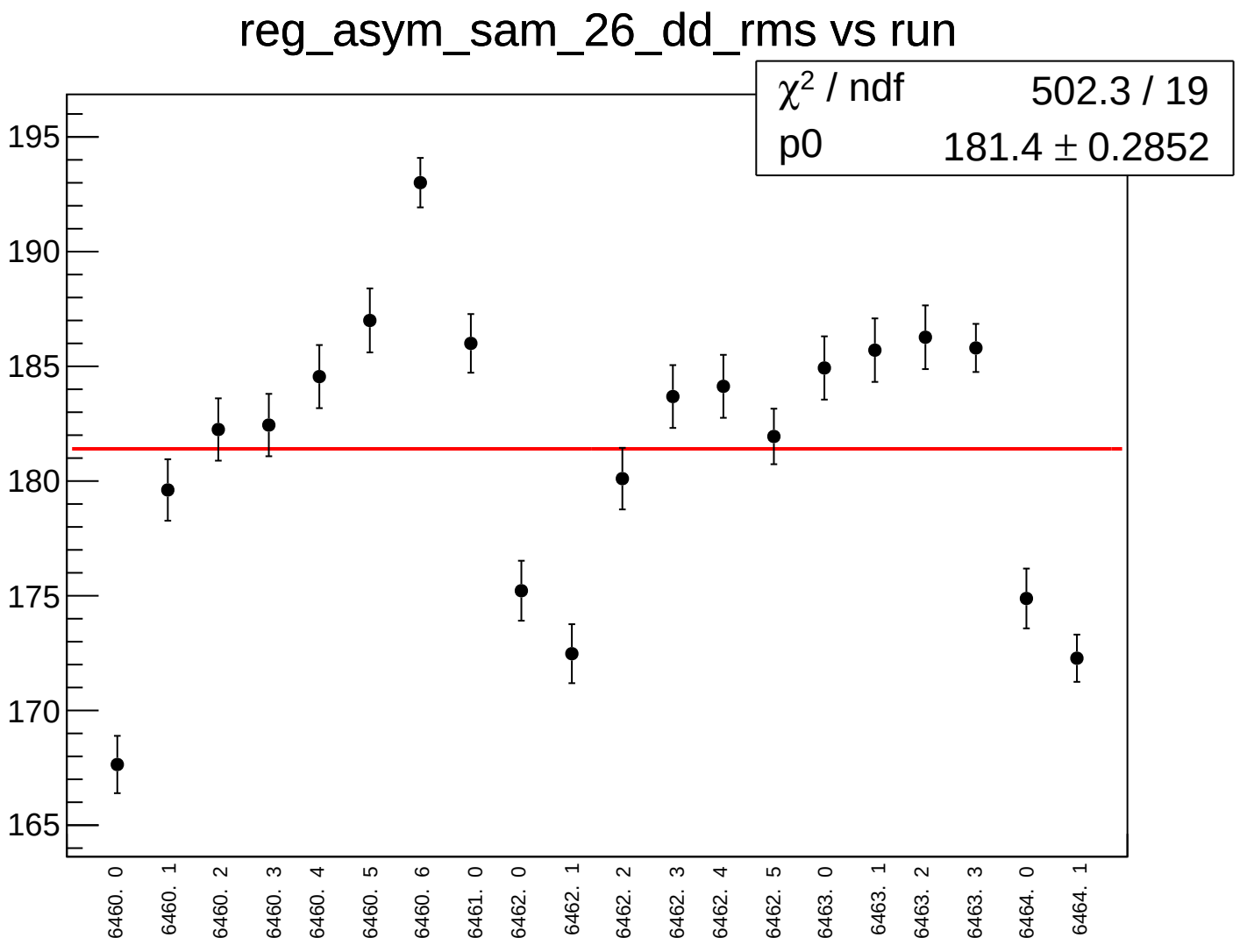

pull
Entries 20
Mean 3.022
Std Dev 6.785
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

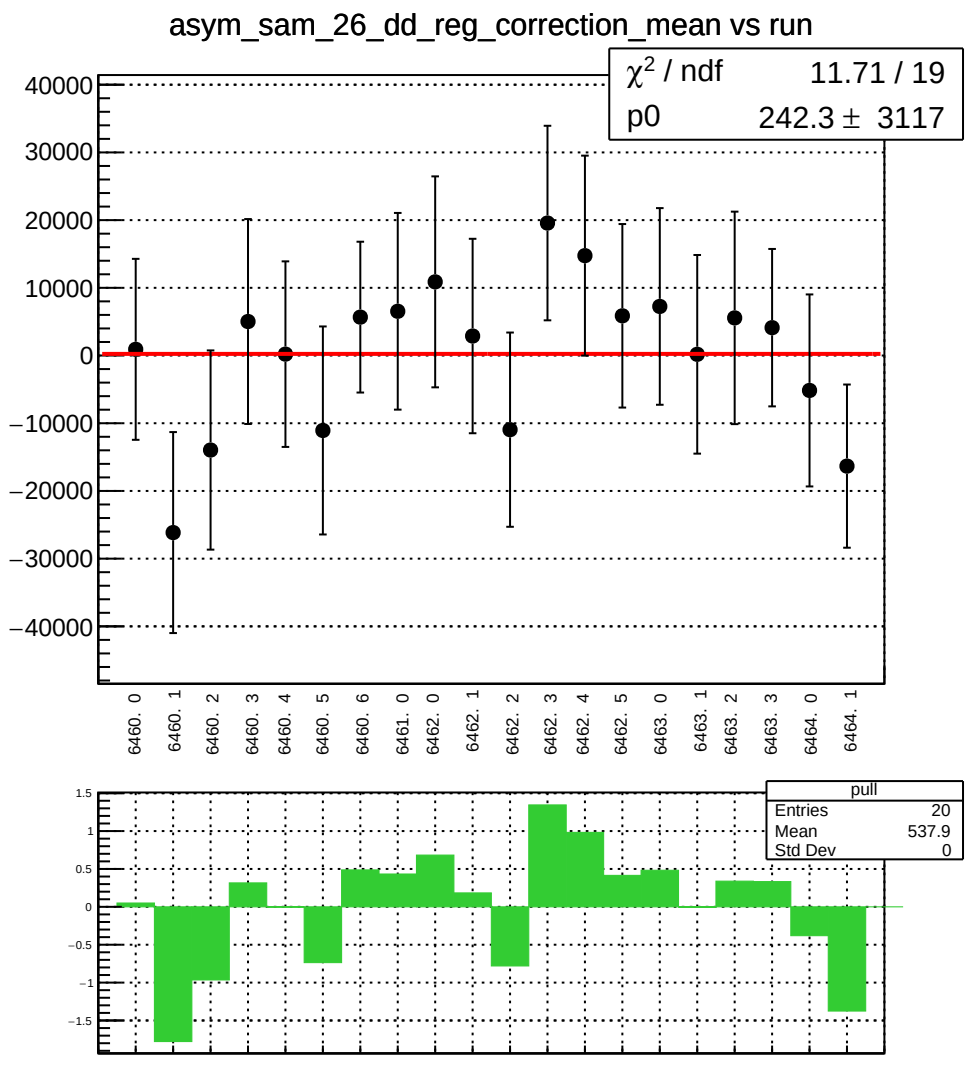

pull1D
Entries 20
Mean −0.1209
Std Dev 1.059
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

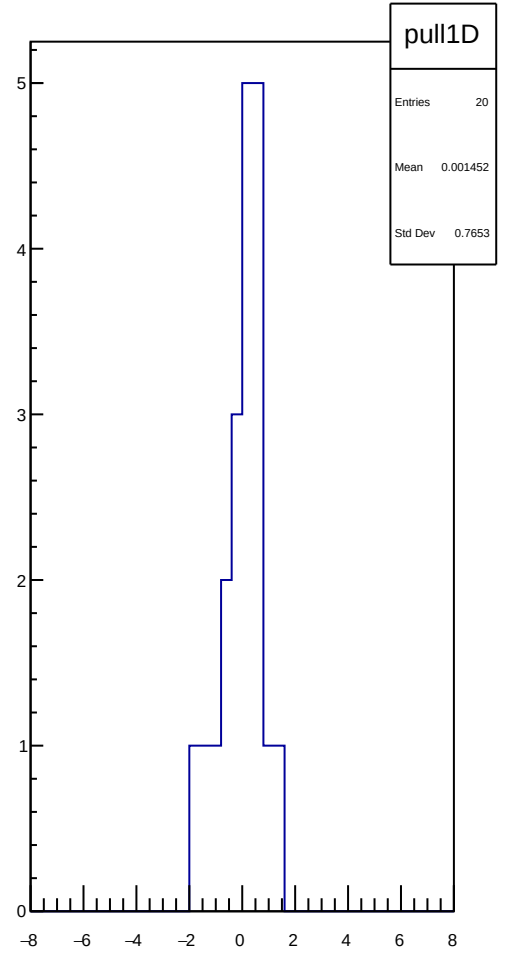

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.068e+05 / 19
p0 5.835e−12 ± 1.068e−14
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

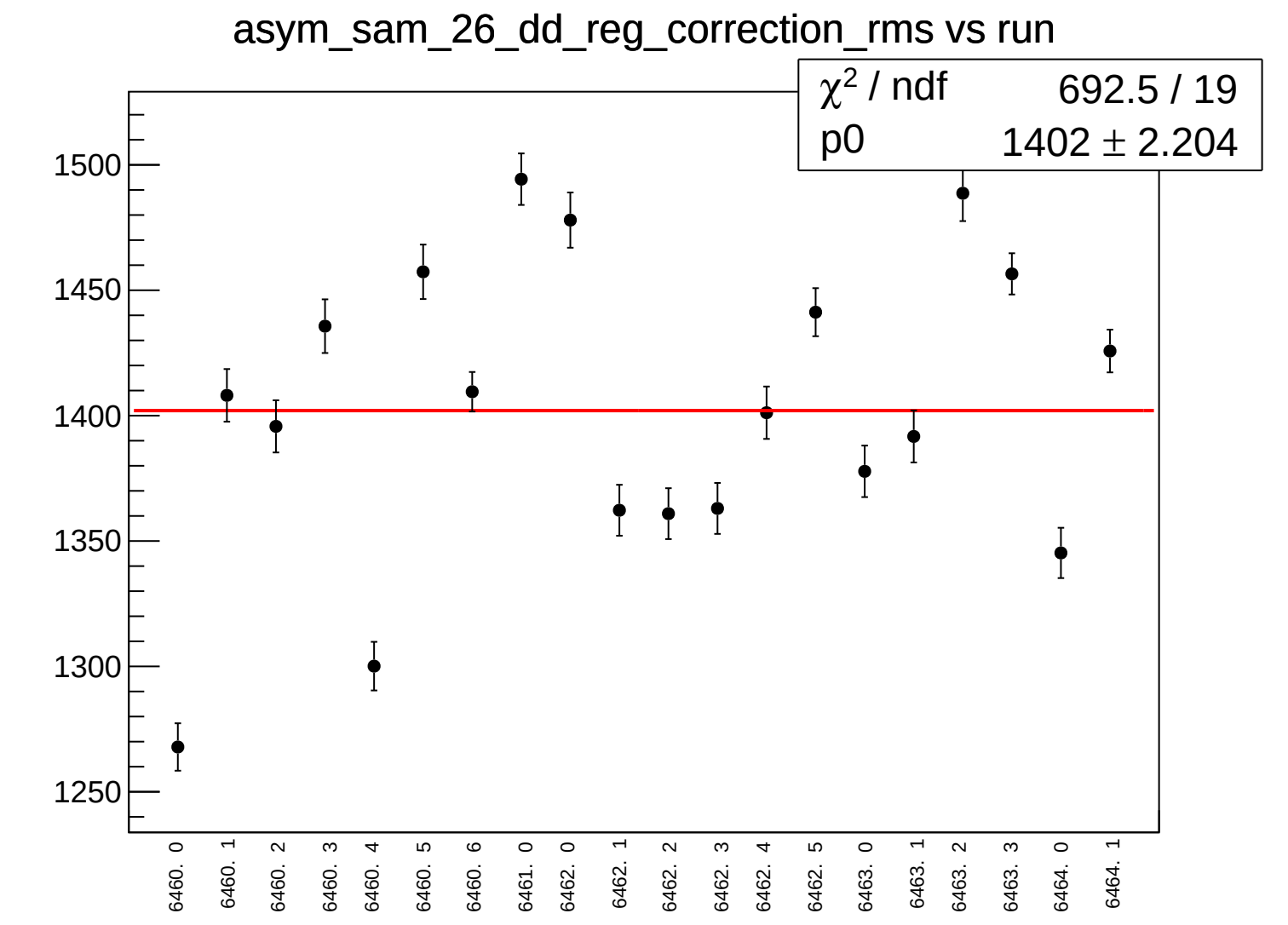

reg_asym_sam_26_dd_mean vs run
χ² / ndf 10.8 / 19
p0 357.5 ± 403.3
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −99.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

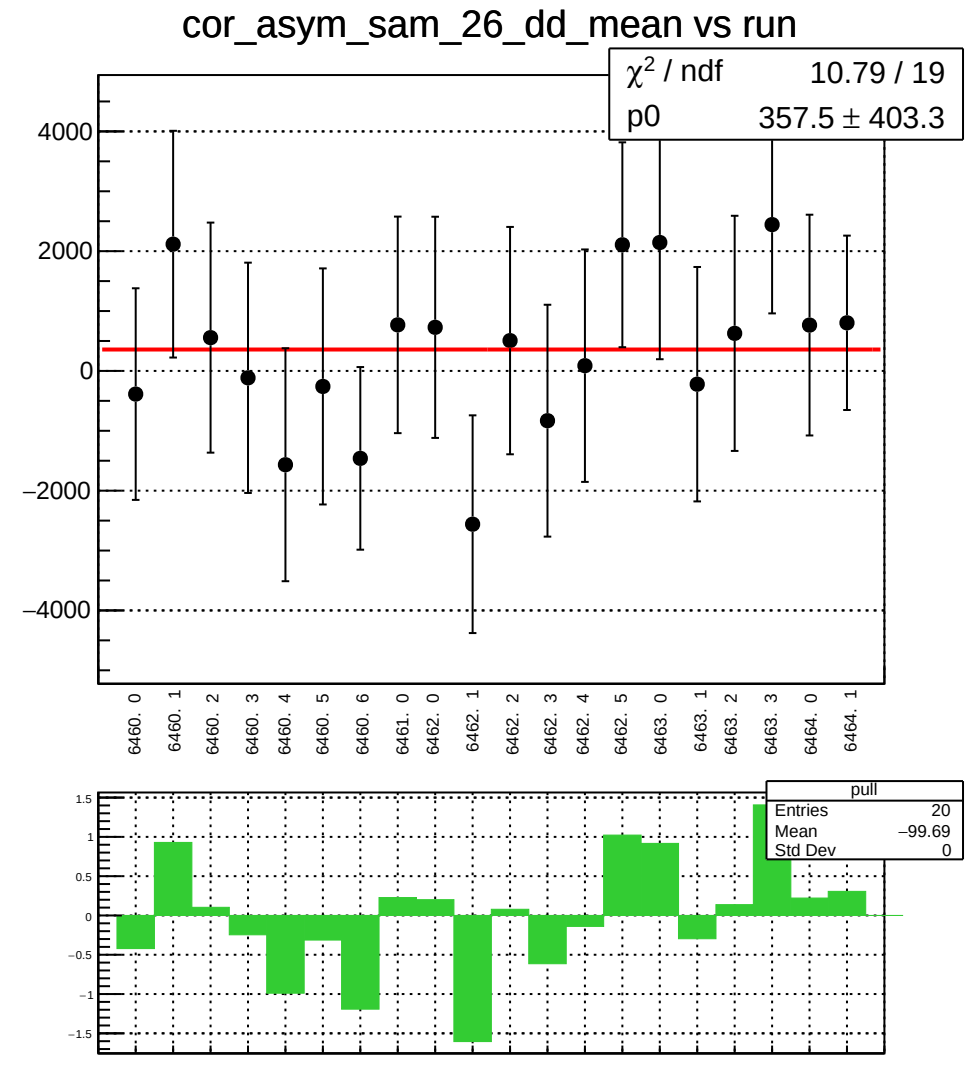

pull1D
Entries 20
Mean −0.01321
Std Dev 0.7346
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

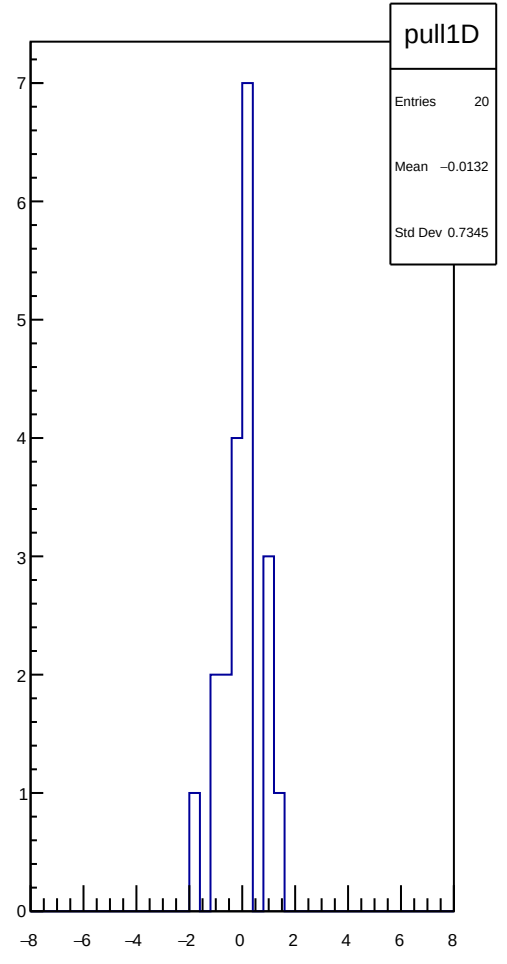

reg_asym_sam_26_dd_rms vs run
χ² / ndf 502.3 / 19
p0 181.4 ± 0.2852
195
190
185
180
175
170
165
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

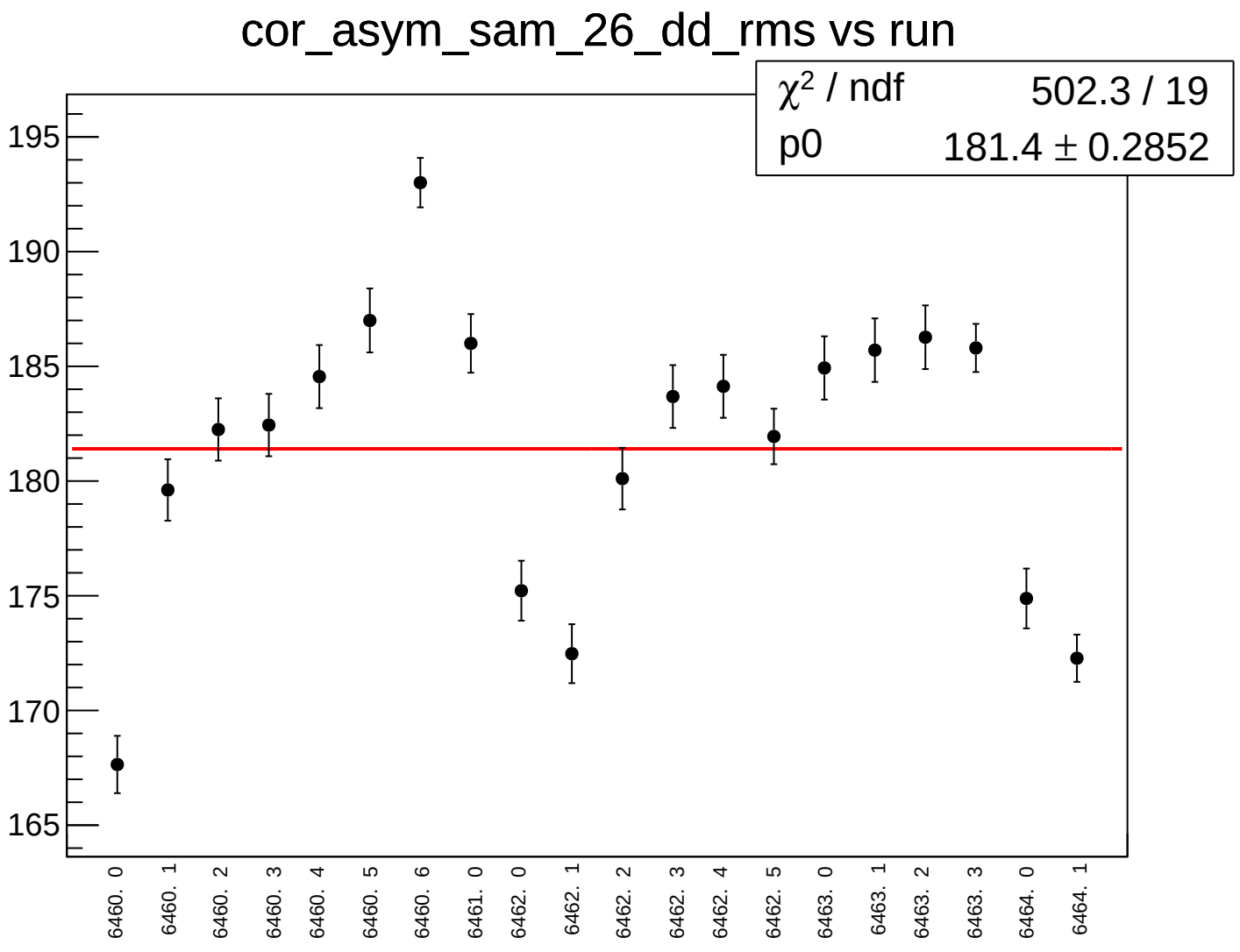

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 11.71 / 19
p0 242.3 ± 3117
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 537.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

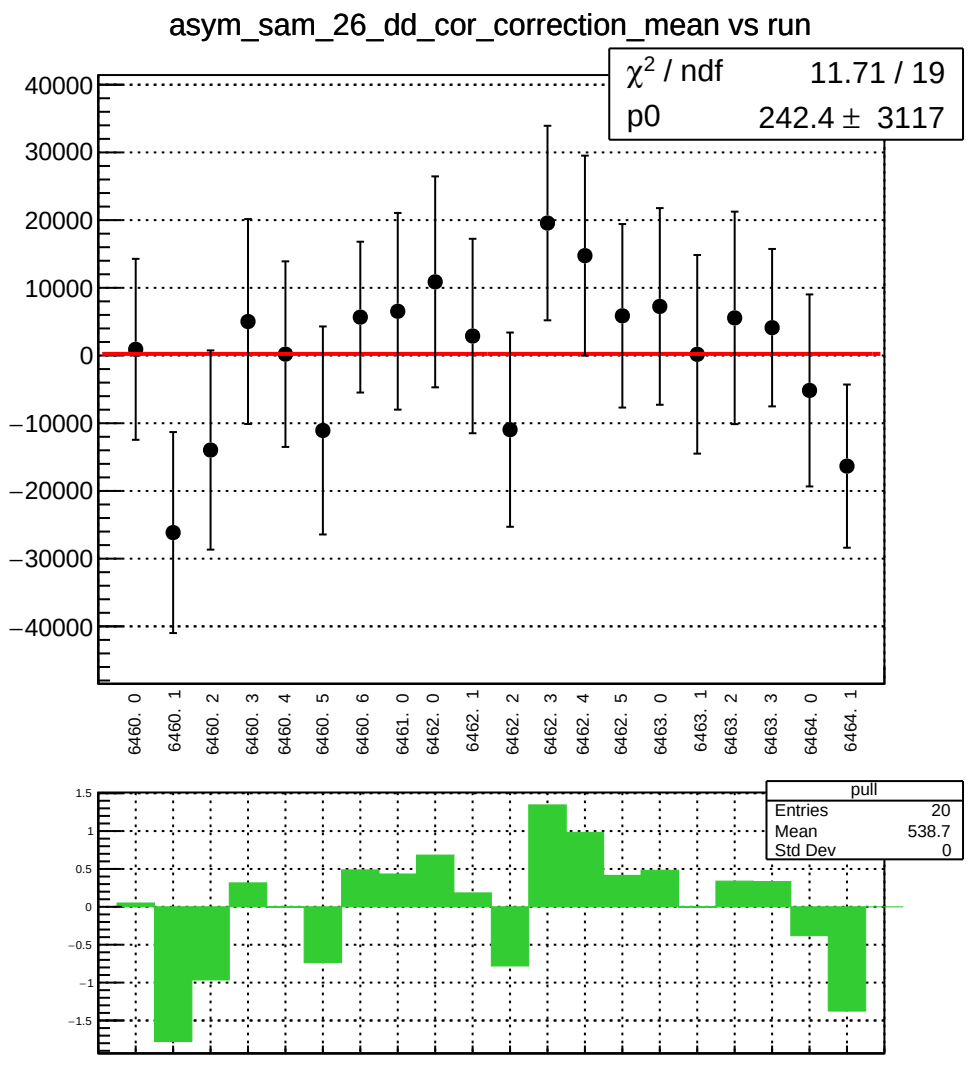

pull1D
Entries 20
Mean 0.001452
Std Dev 0.7653
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

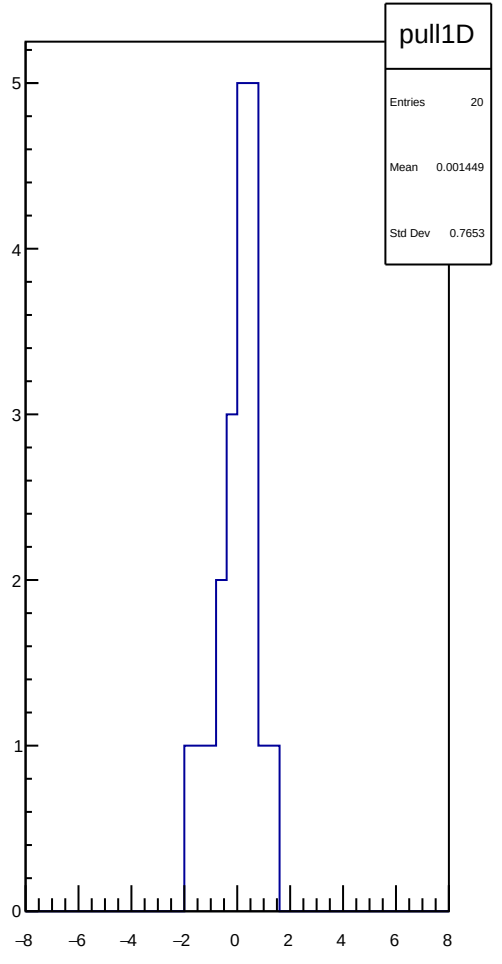

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 692.5 / 19
p0 1402 ± 2.204
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


cor_asym_sam_26_dd_mean vs run
χ² / ndf 10.79 / 19
p0 357.5 ± 403.3
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −99.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean −0.0132
Std Dev 0.7345
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 502.3 / 19
p0 181.4 ± 0.2852
195
190
185
180
175
170
165
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 11.71 / 19
p0 242.4 ± 3117
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 538.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean 0.001449
Std Dev 0.7653
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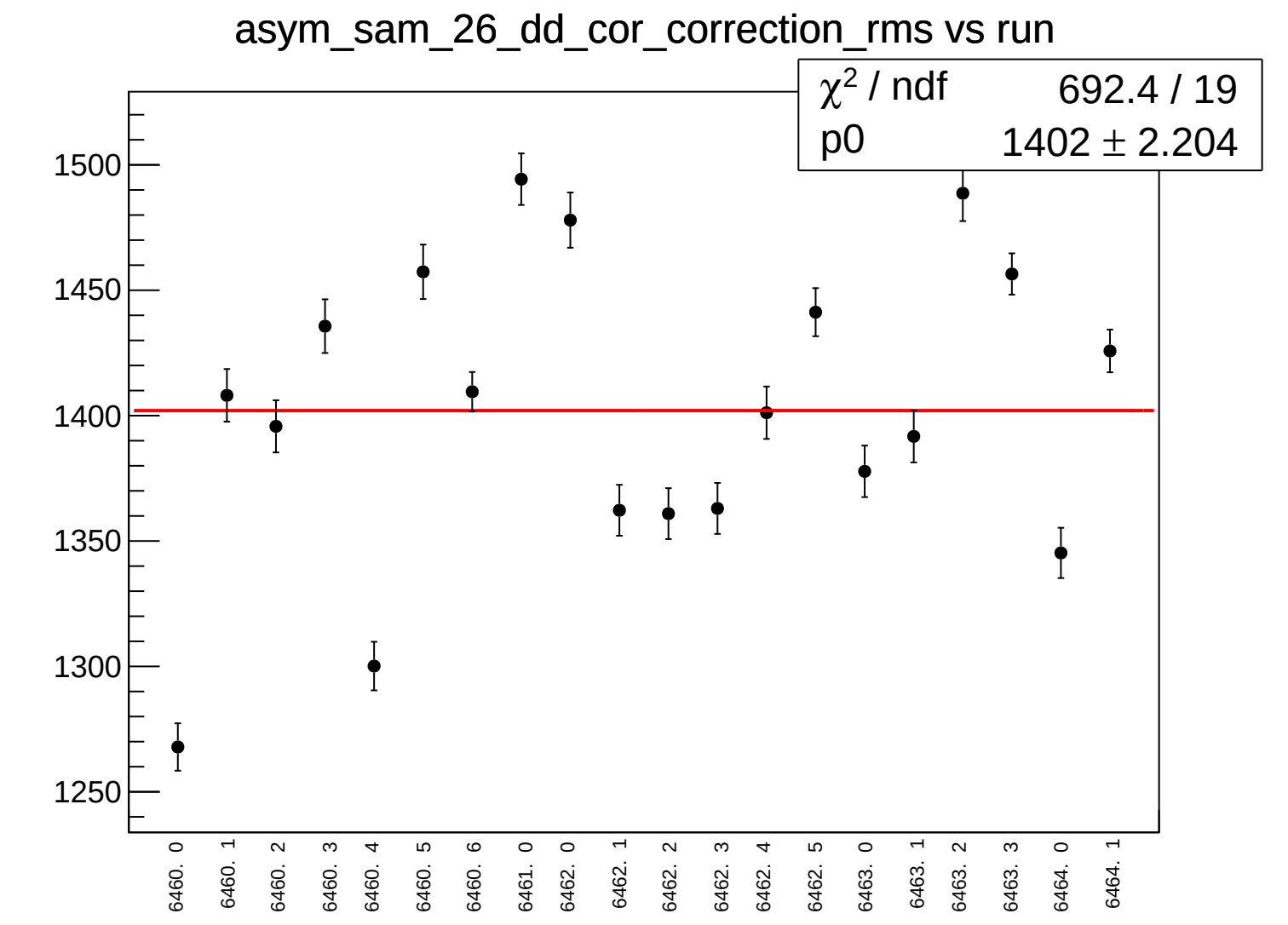
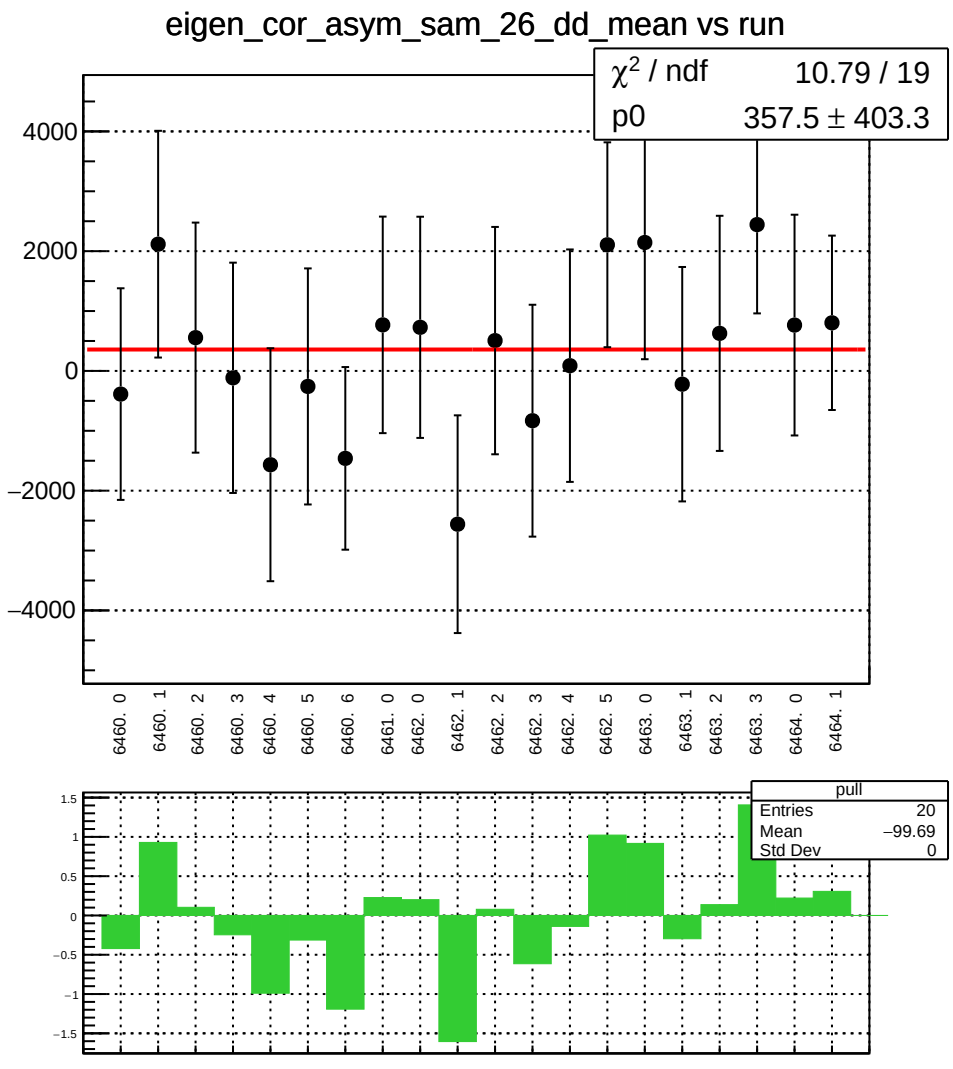
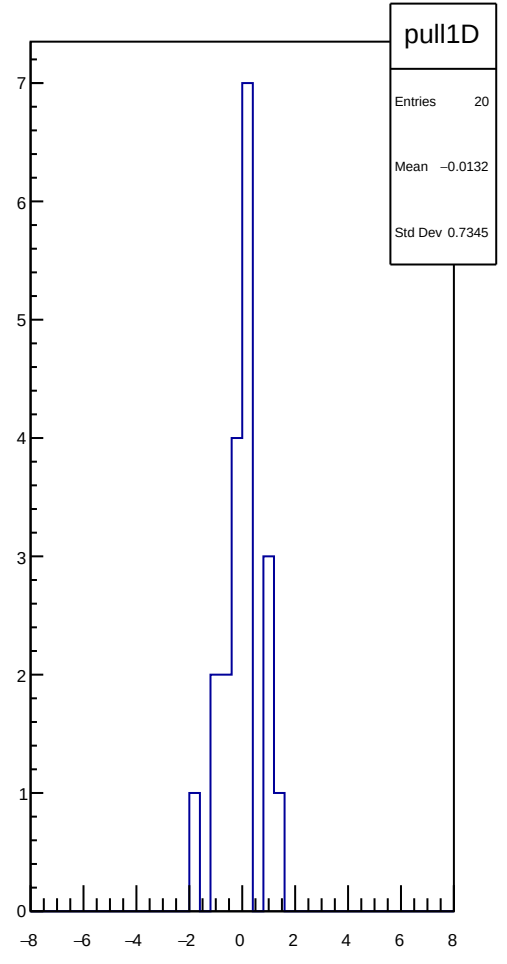
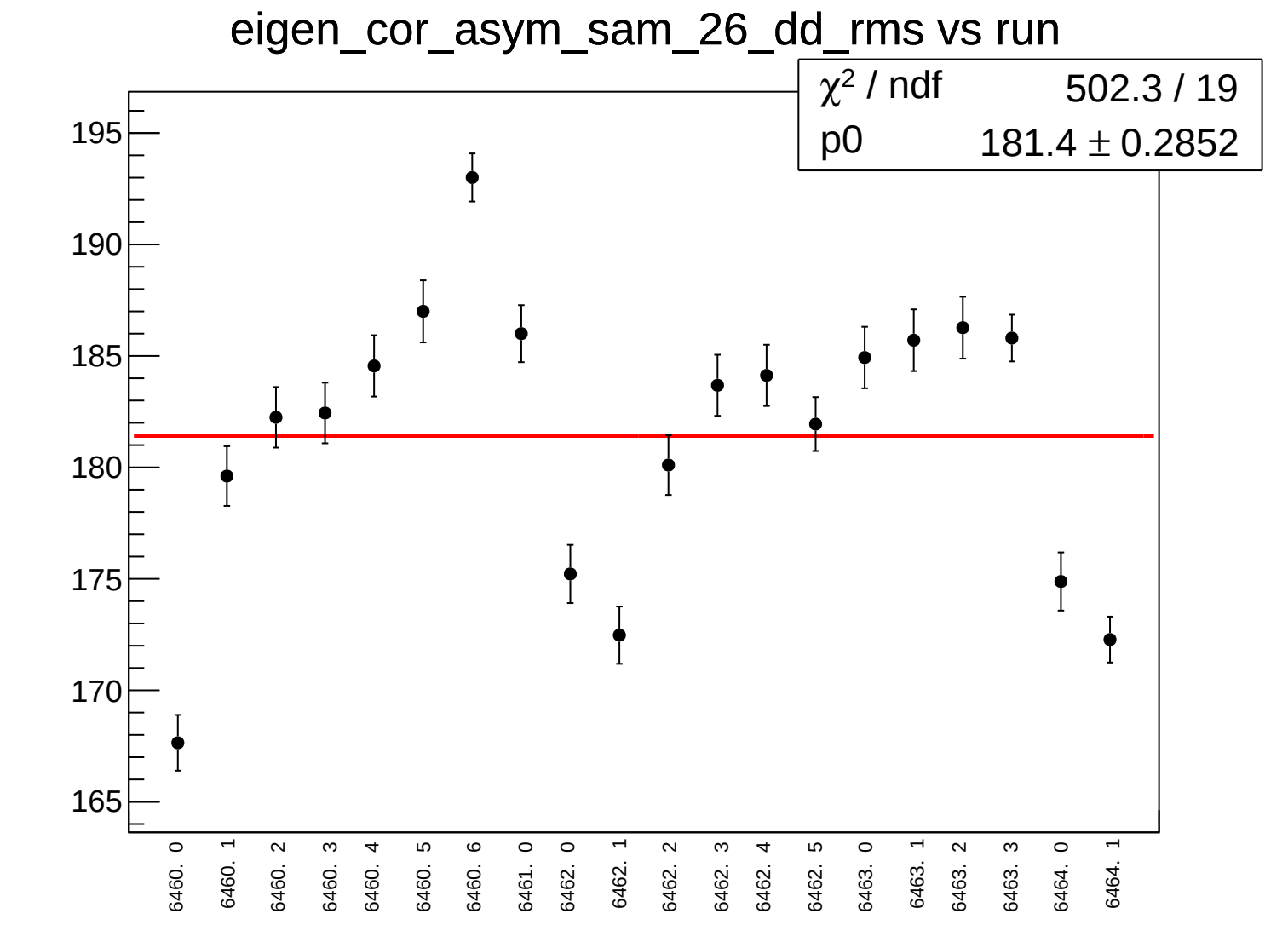
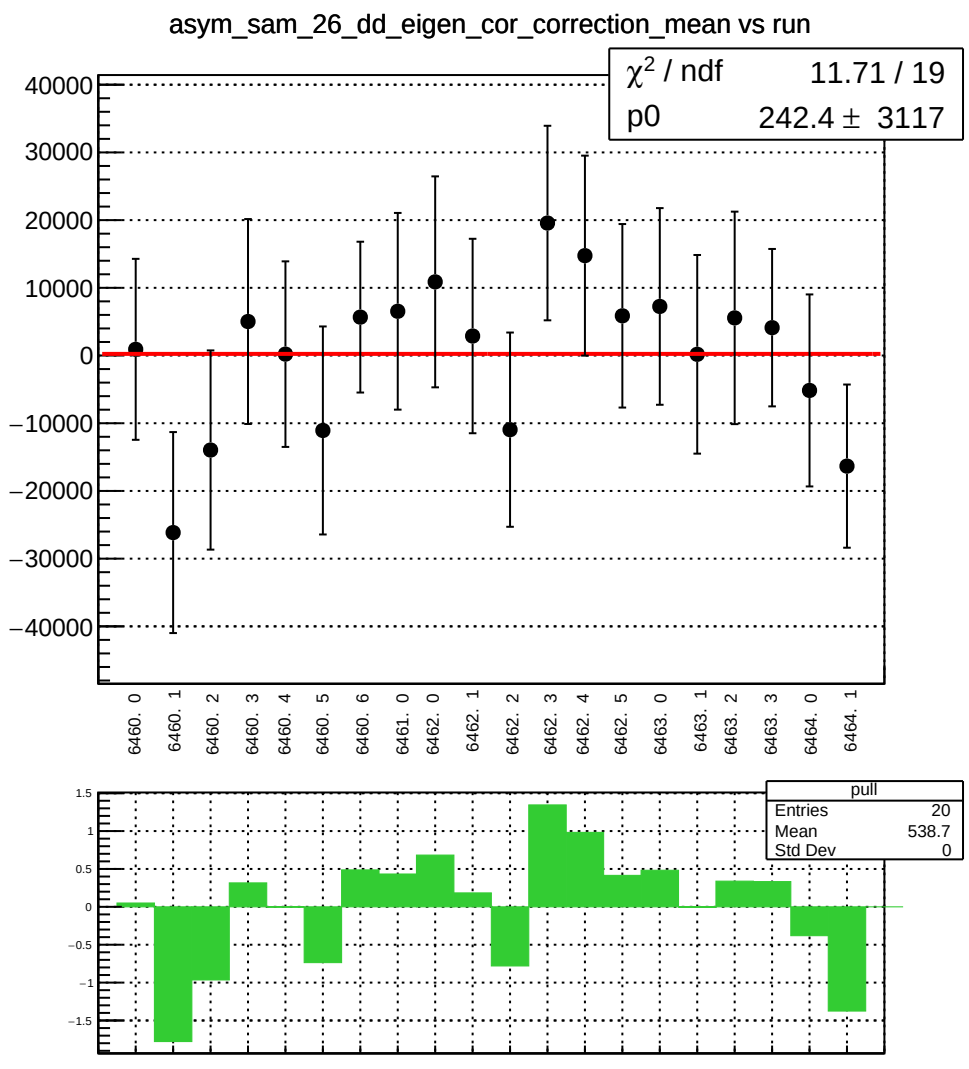
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

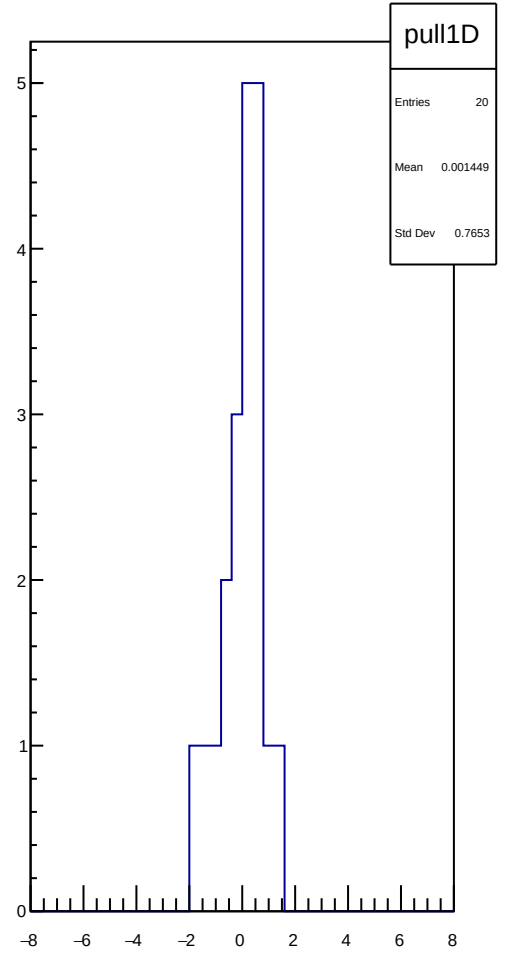

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 692.4 / 19
p0 1402 ± 2.204
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

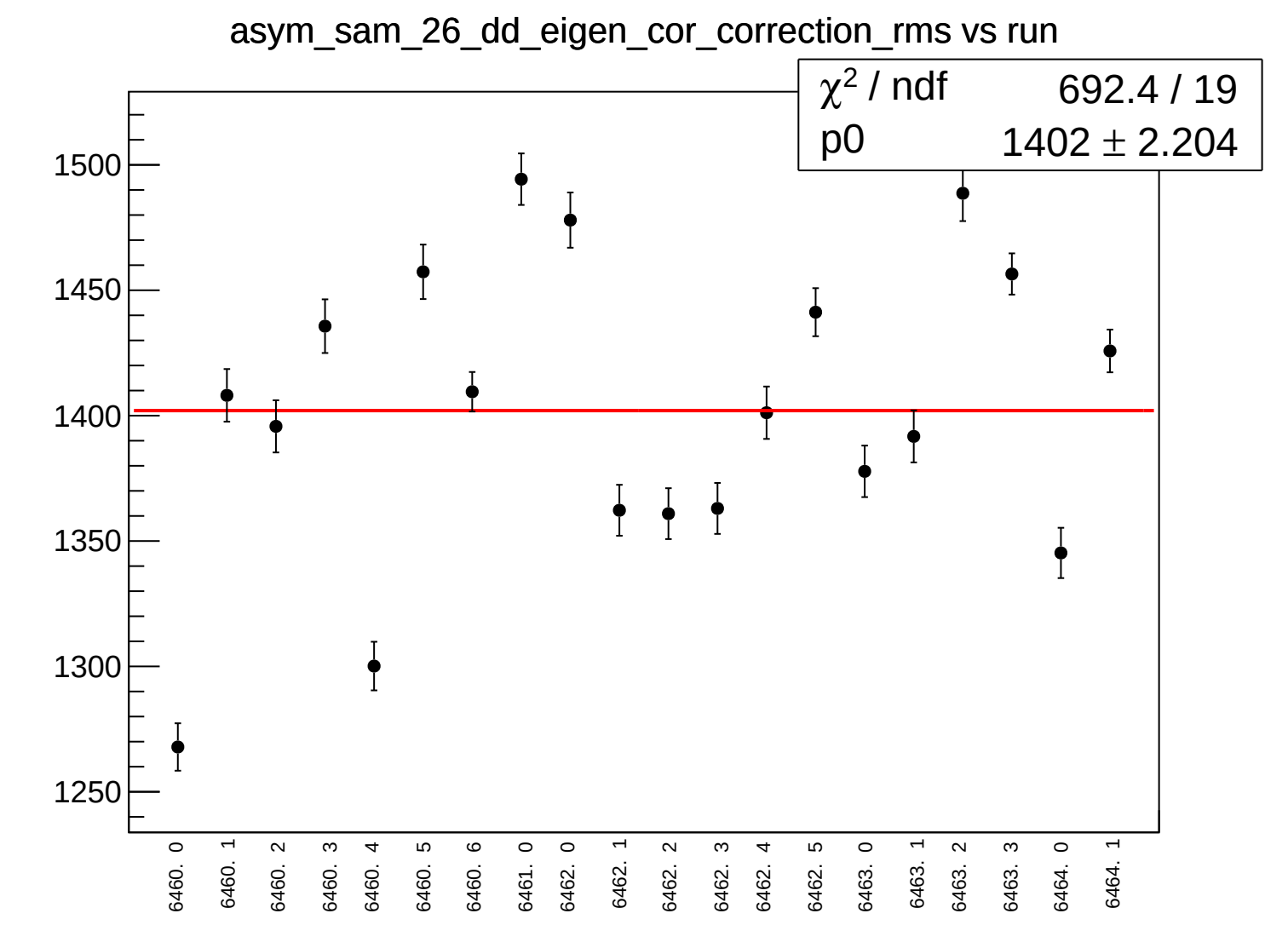

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 10.79 / 19
p0 357.5 ± 403.3
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −99.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

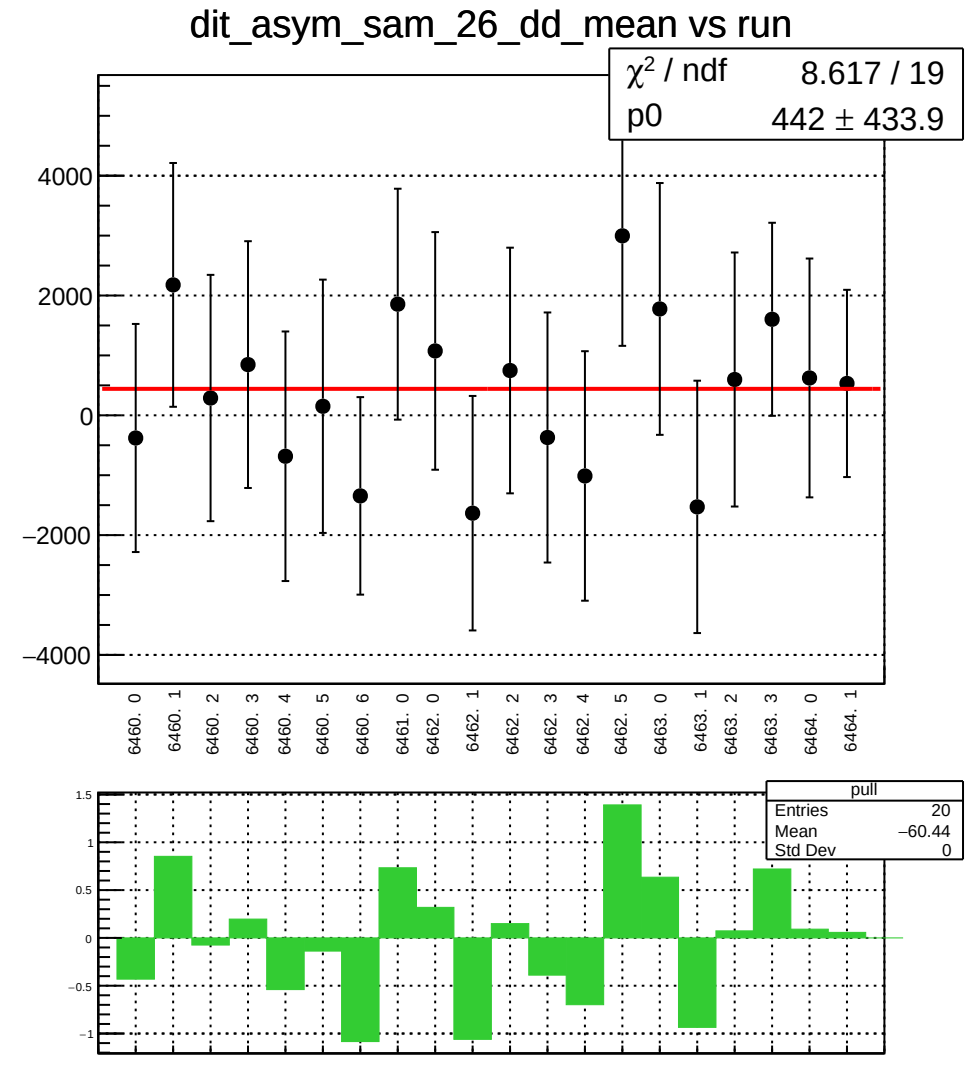

pull1D
Entries 20
Mean −0.0132
Std Dev 0.7345
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

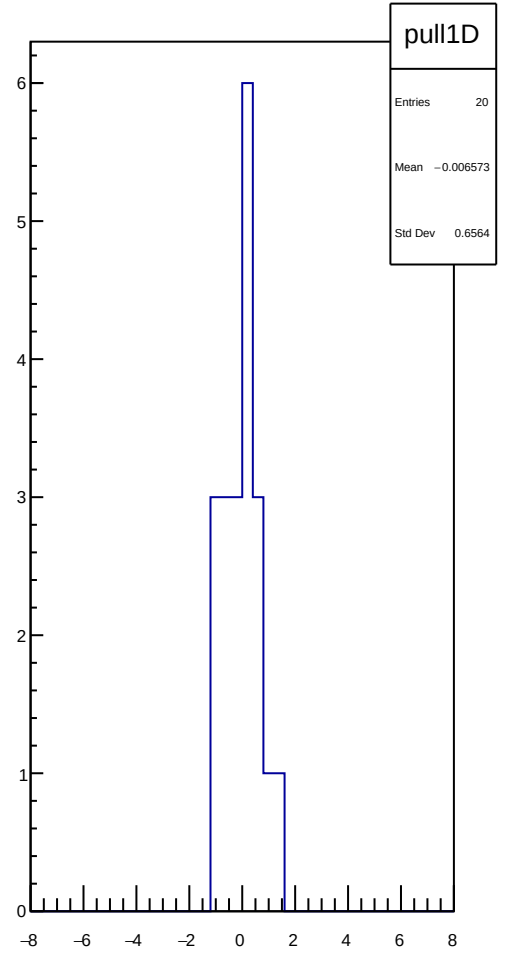

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 502.3 / 19
p0 181.4 ± 0.2852
195
190
185
180
175
170
165
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

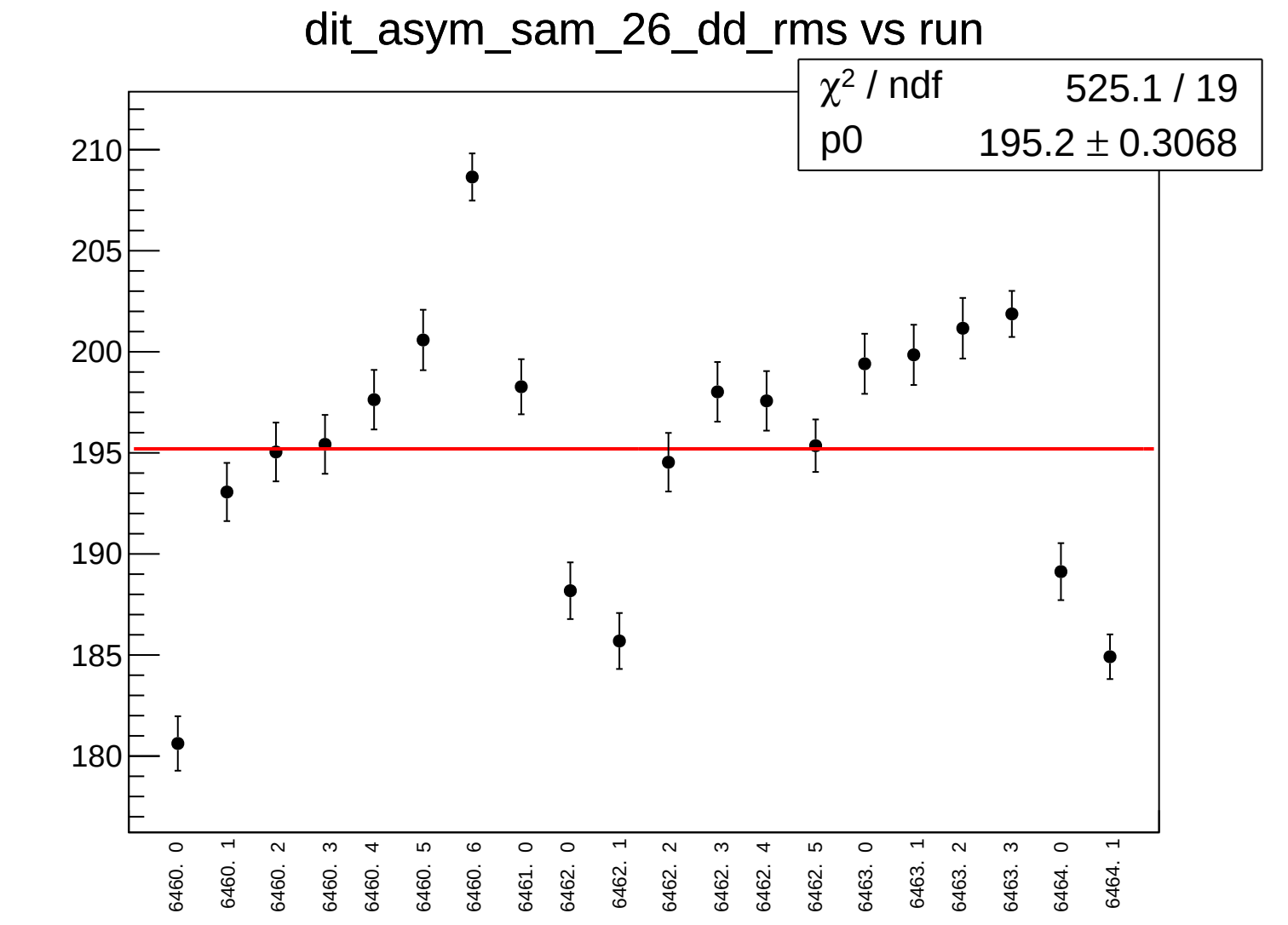

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 11.71 / 19
p0 242.4 ± 3117
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 538.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

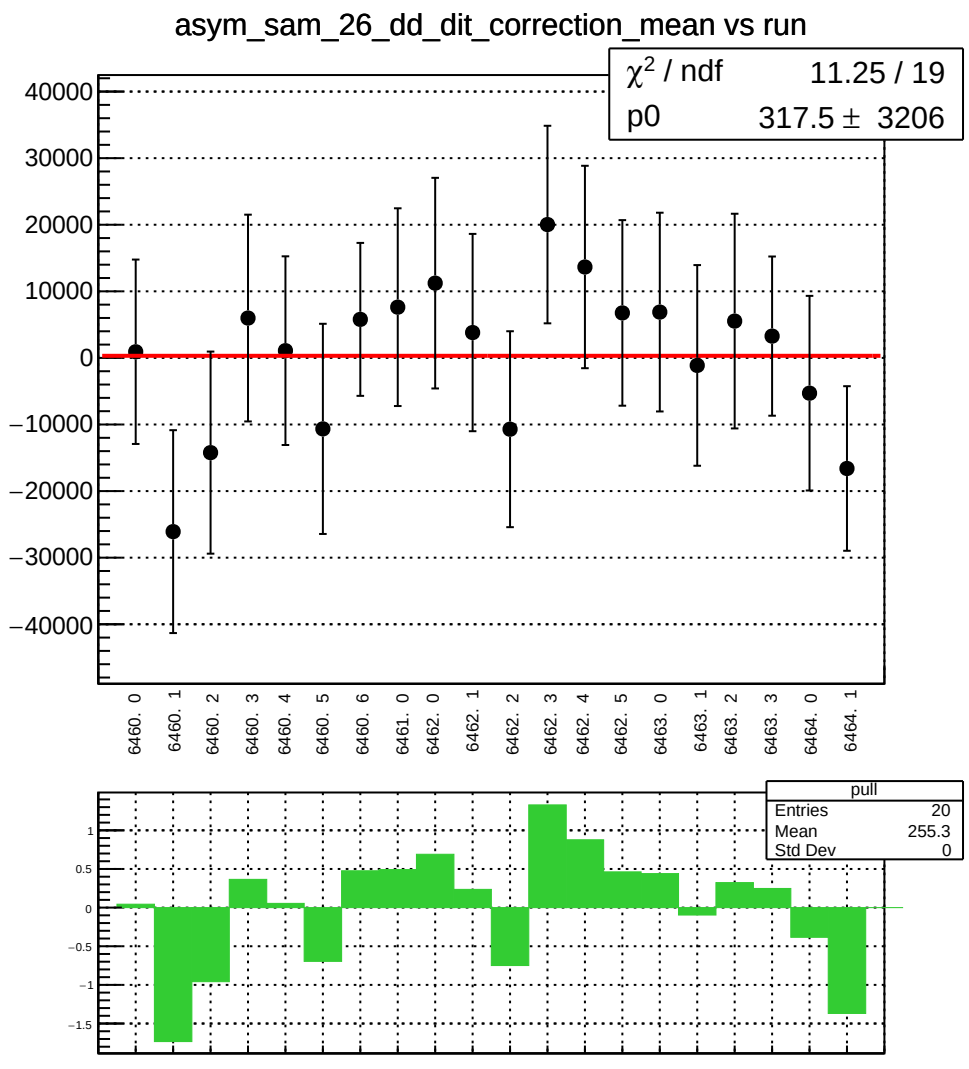

pull1D
Entries 20
Mean 0.001449
Std Dev 0.7653
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

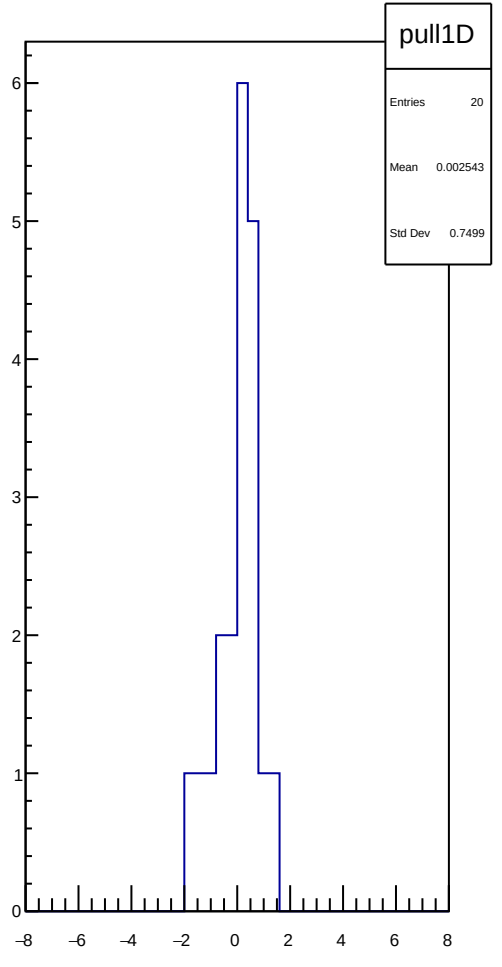

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 692.4 / 19
p0 1402 ± 2.204
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

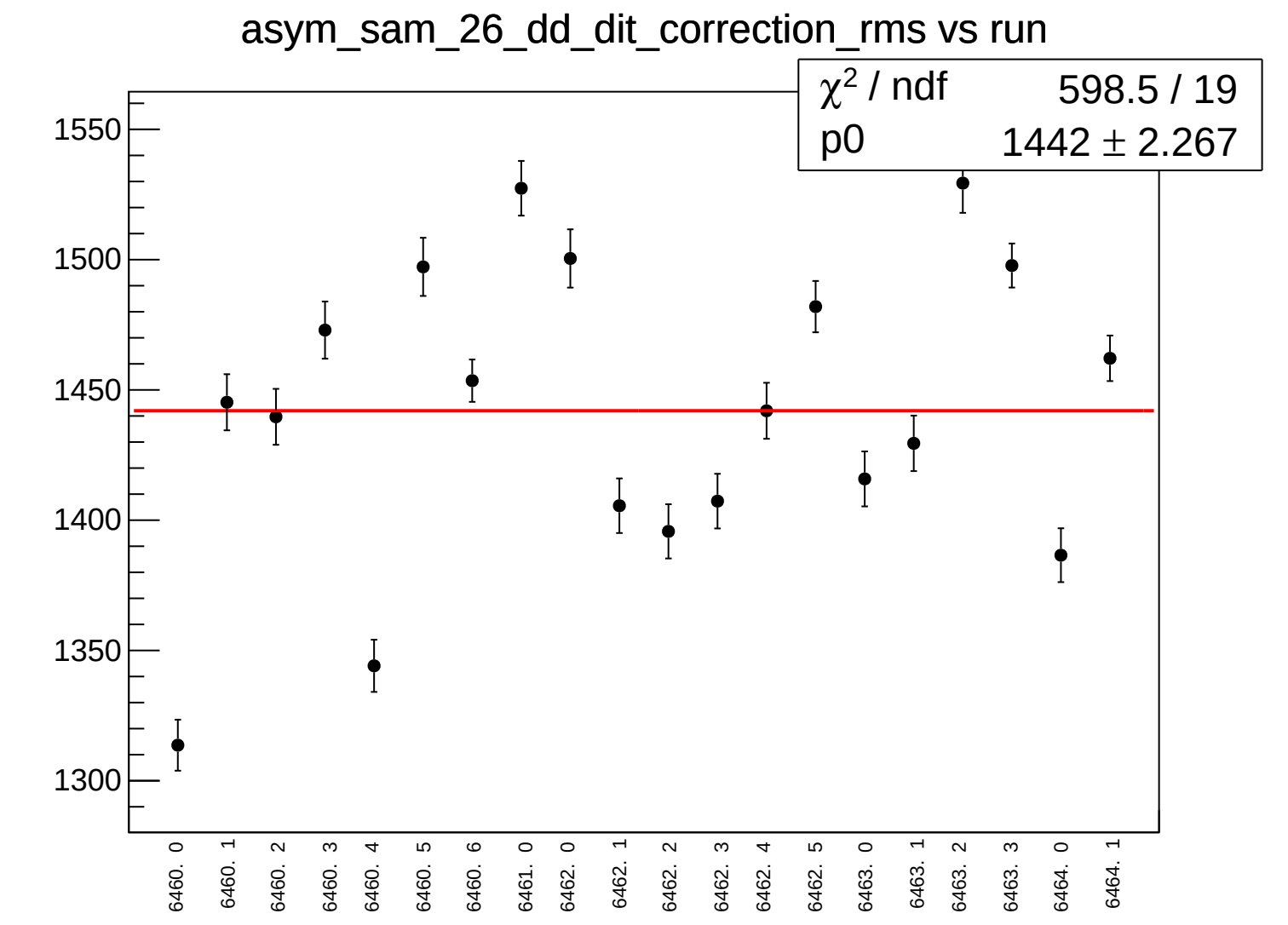

dit_asym_sam_26_dd_mean vs run
χ² / ndf 8.617 / 19
p0 442 ± 433.9
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −60.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1

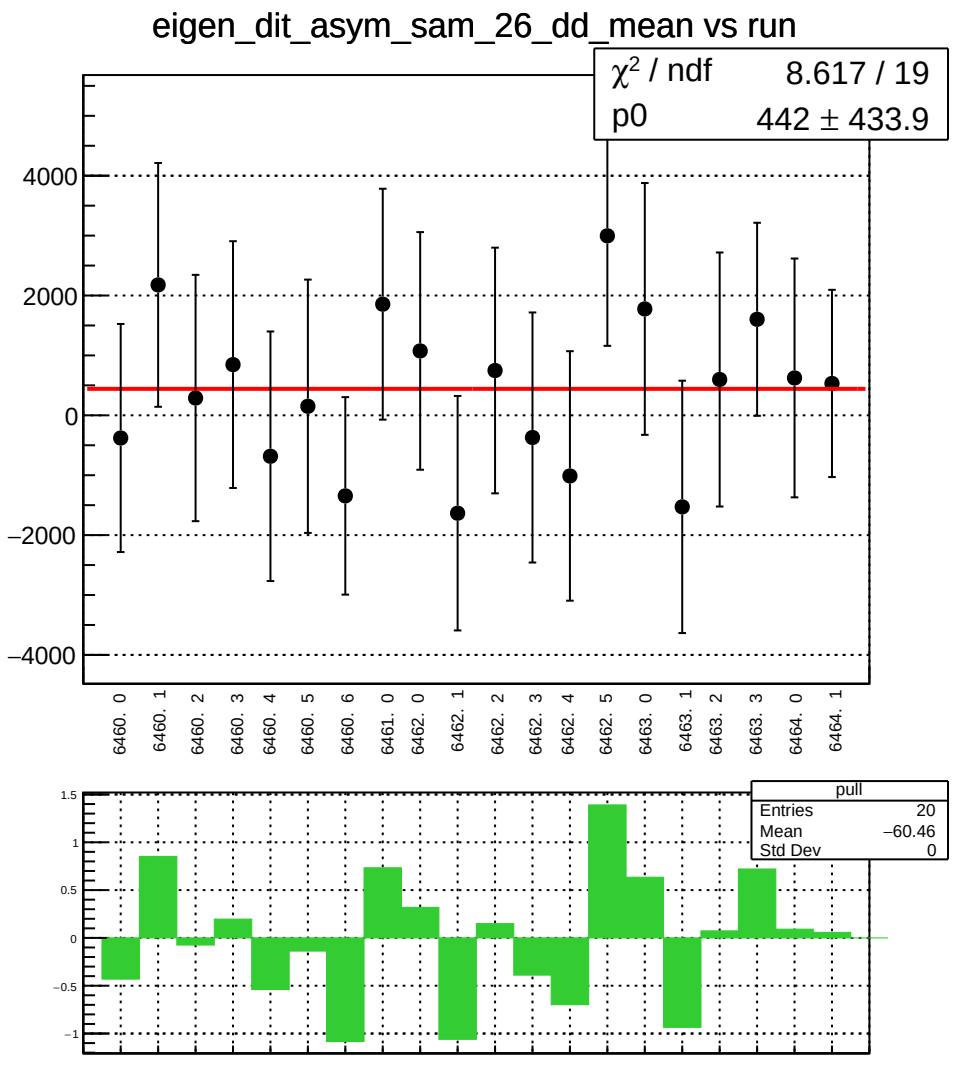

pull1D
Entries 20
Mean −0.006573
Std Dev 0.6564
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

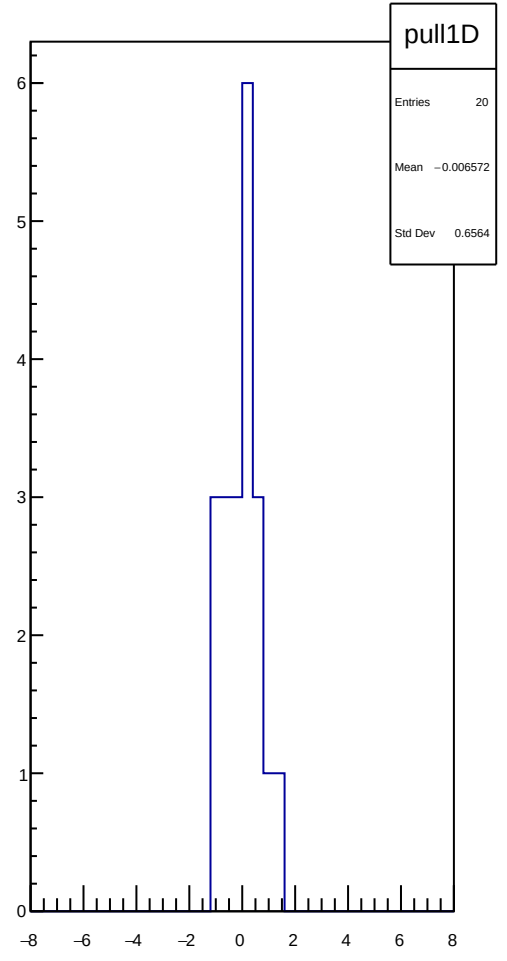

dit_asym_sam_26_dd_rms vs run
χ² / ndf 525.1 / 19
p0 195.2 ± 0.3068
210
205
200
195
190
185
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

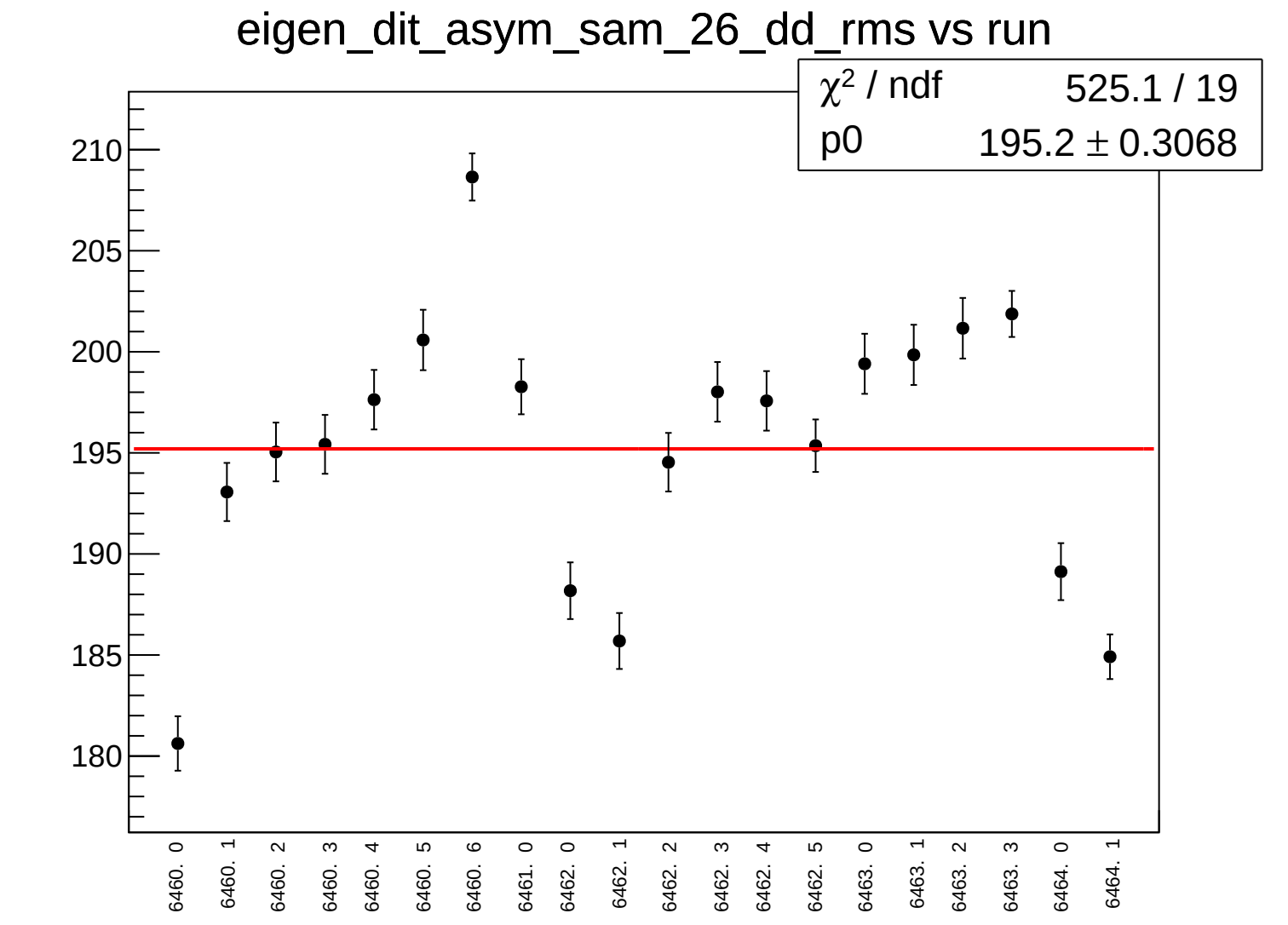

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 11.25 / 19
p0 317.5 ± 3206
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 255.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

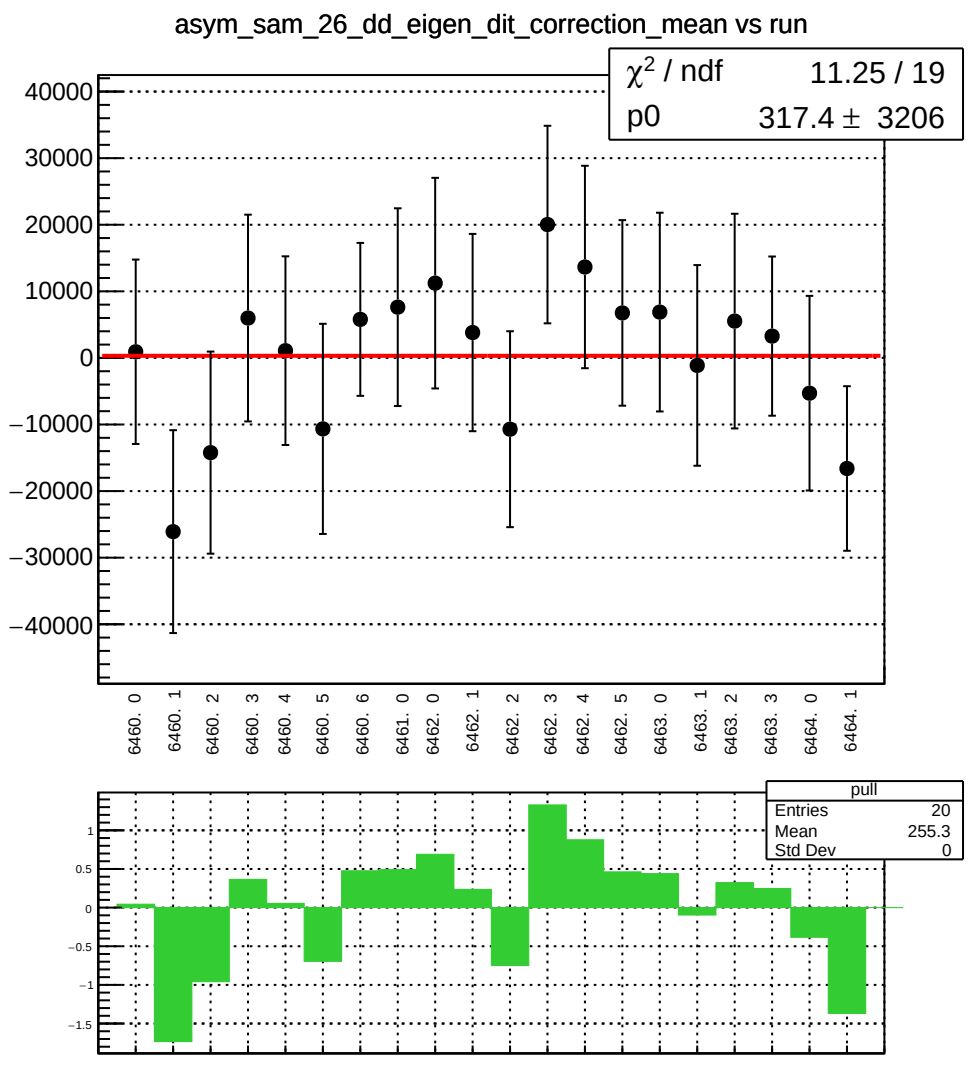

pull1D
Entries 20
Mean 0.002543
Std Dev 0.7499
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

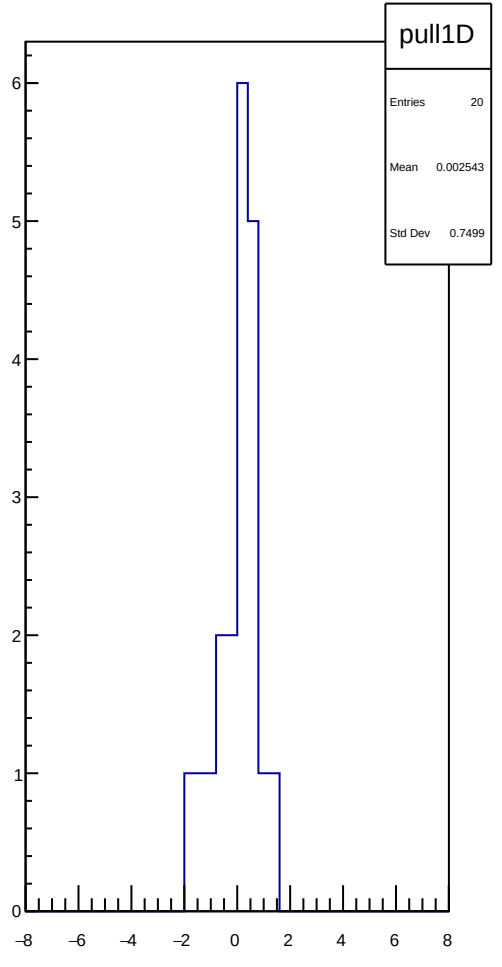

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 598.5 / 19
p0 1442 ± 2.267
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

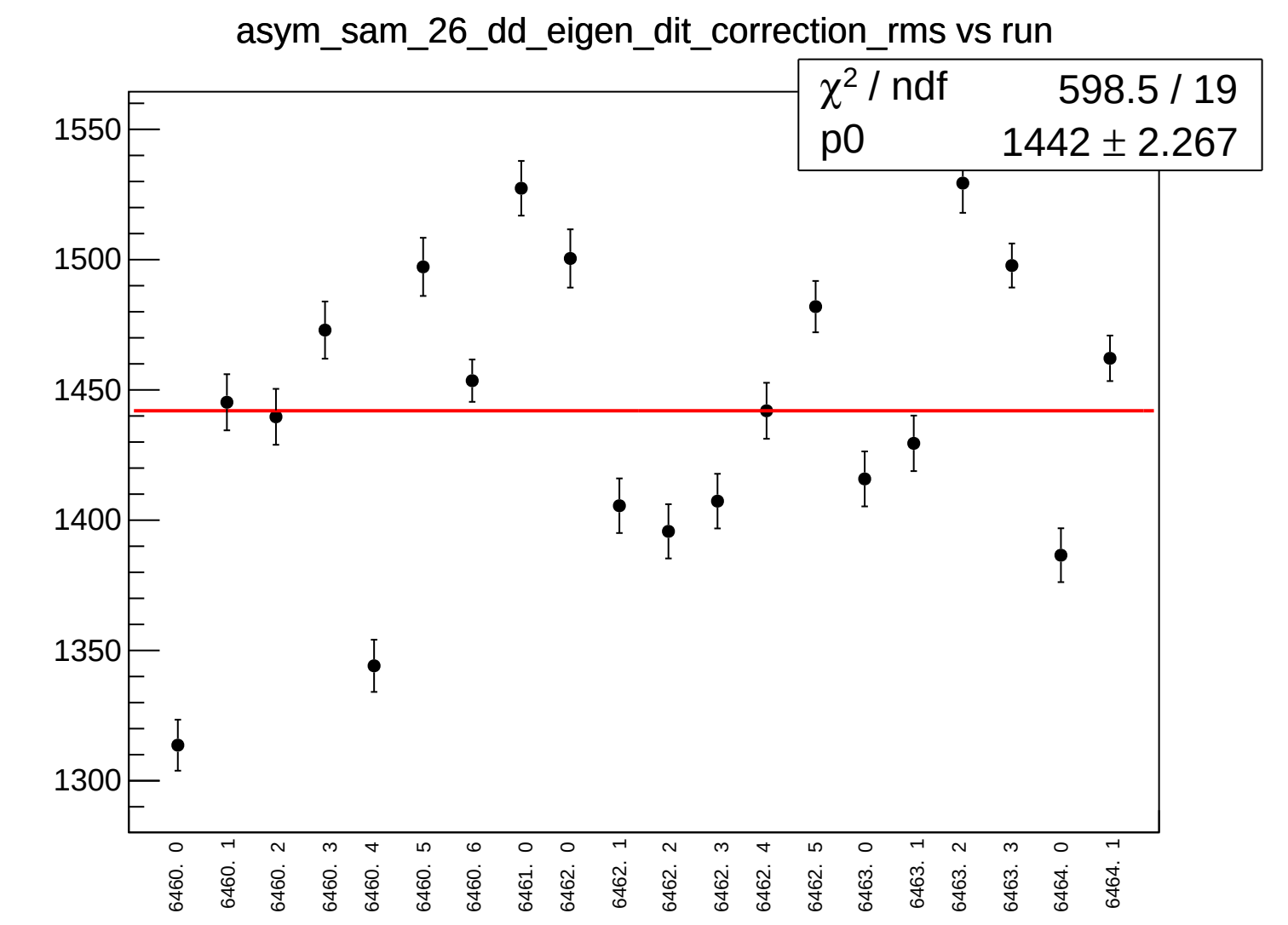

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 8.617 / 19
p0 442 ± 433.9
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −60.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1

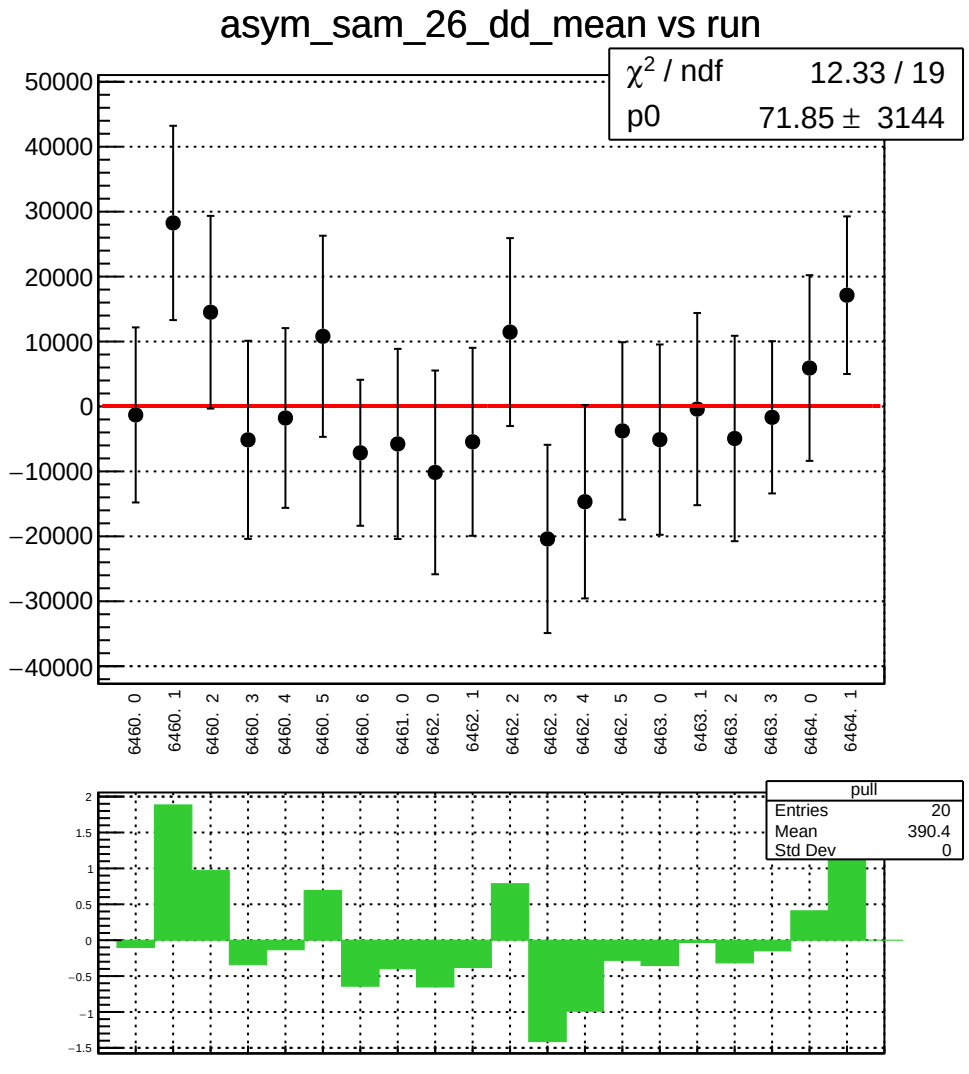

pull1D
Entries 20
Mean −0.006572
Std Dev 0.6564
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

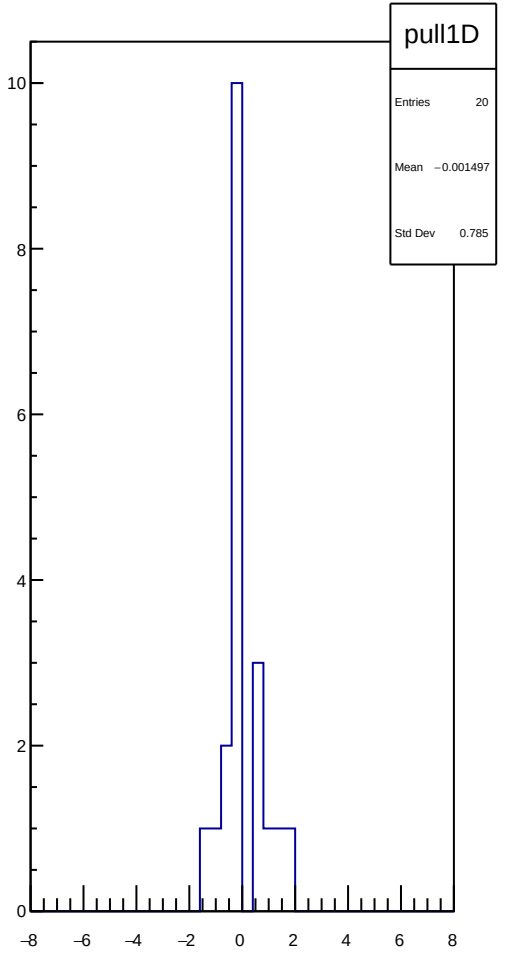

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 525.1 / 19
p0 195.2 ± 0.3068
210
205
200
195
190
185
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

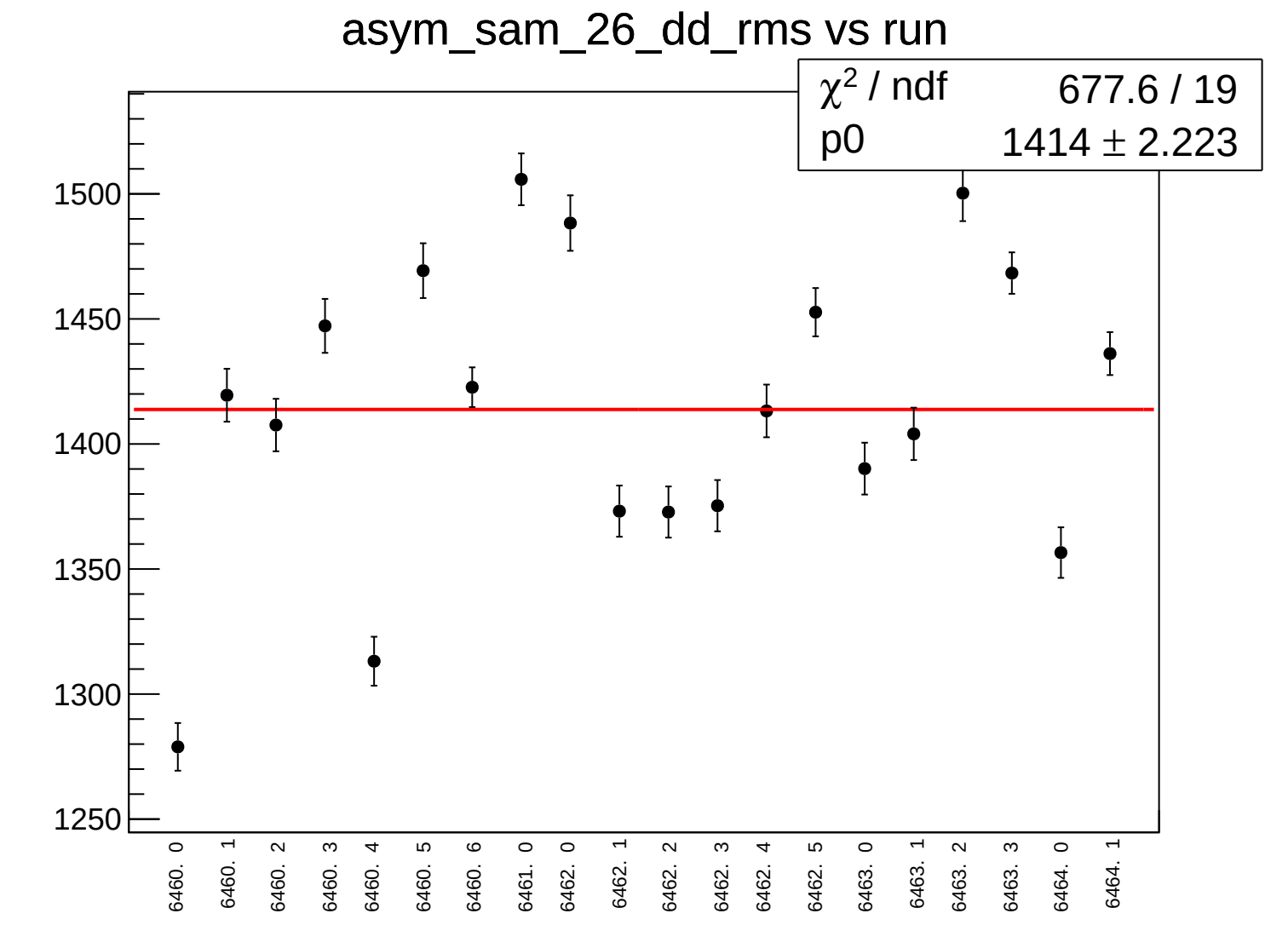

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 11.25 / 19
p0 317.4 ± 3206
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 255.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

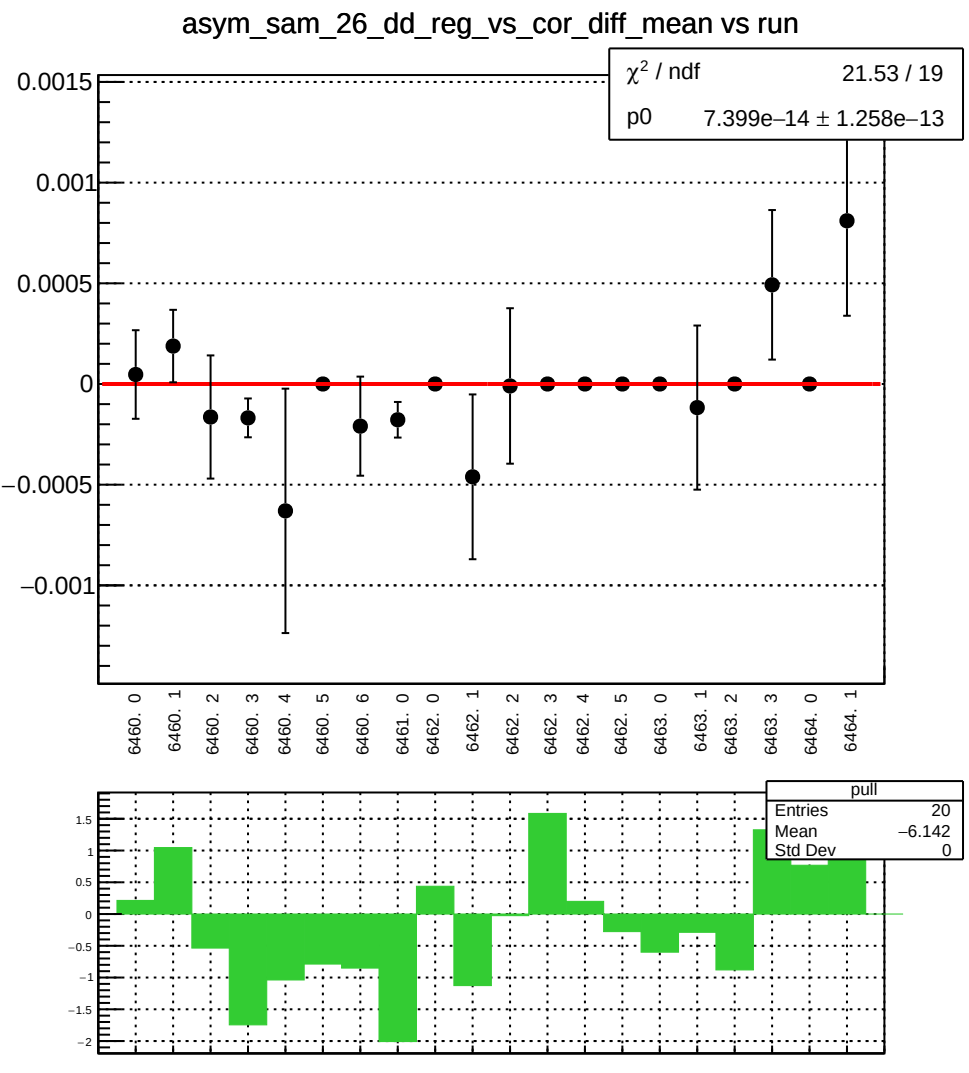

pull1D
Entries 20
Mean 0.002543
Std Dev 0.7499
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

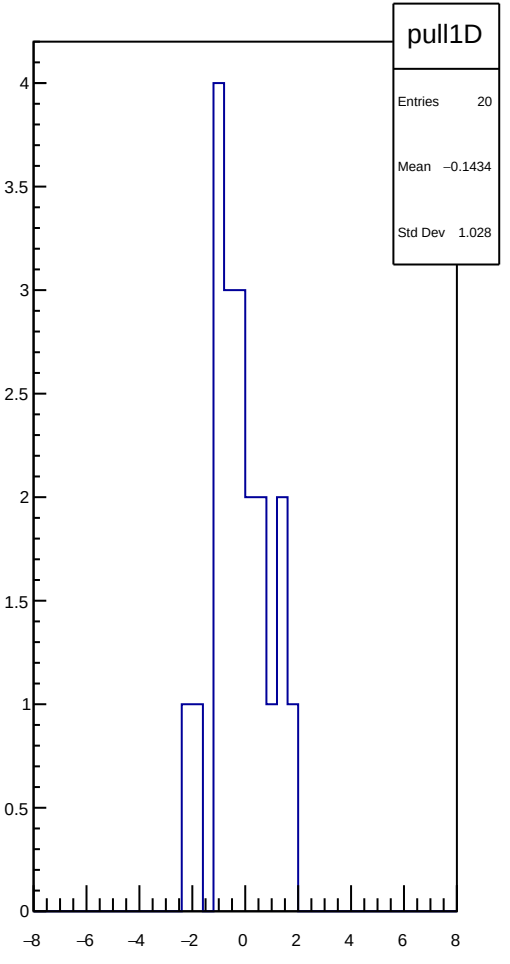

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 598.5 / 19
p0 1442 ± 2.267
1550
1500
1450
1400
1350
1300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

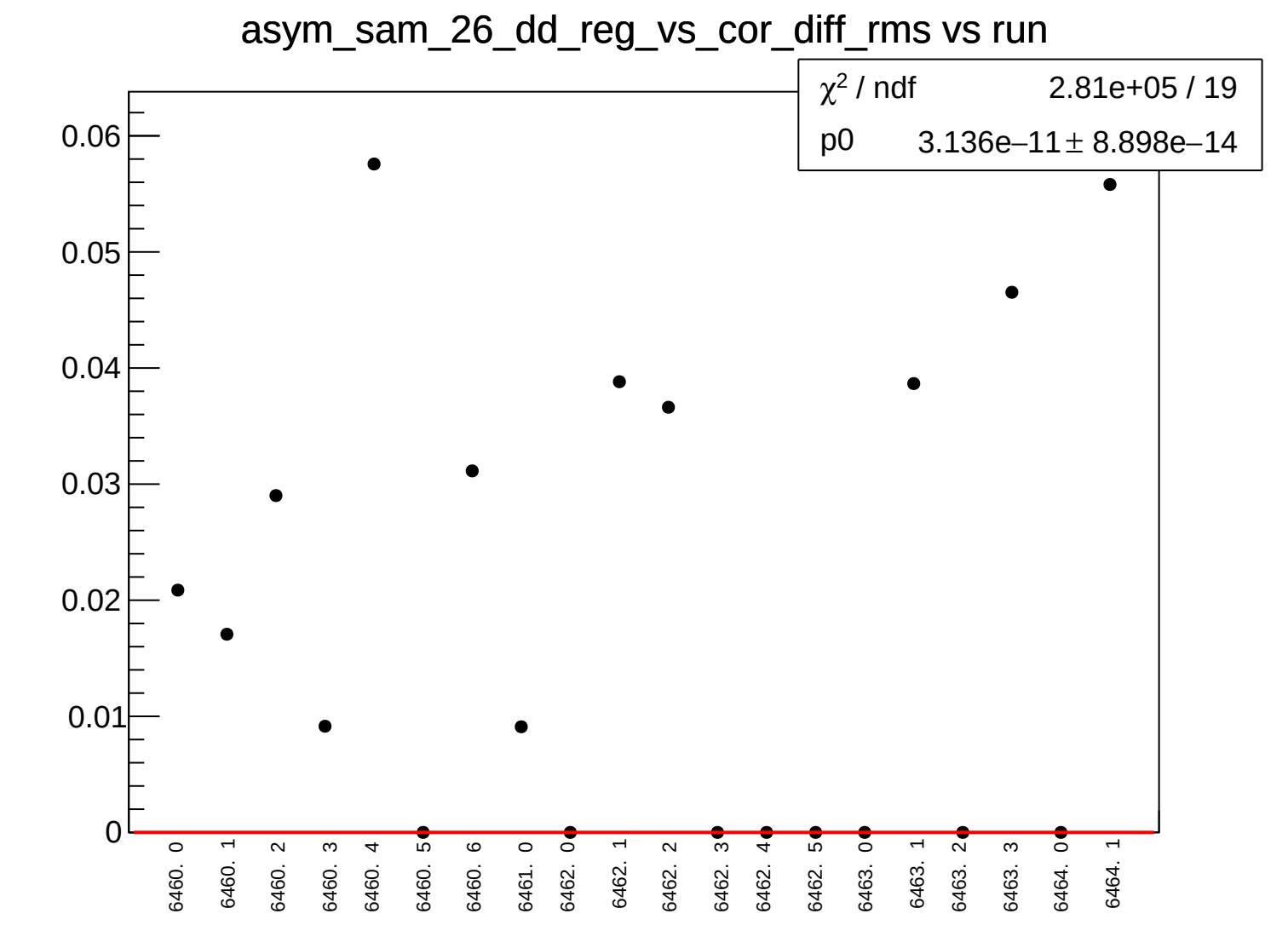

asym_sam_26_dd_mean vs run
χ² / ndf 12.33 / 19
p0 71.85 ± 3144
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 390.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

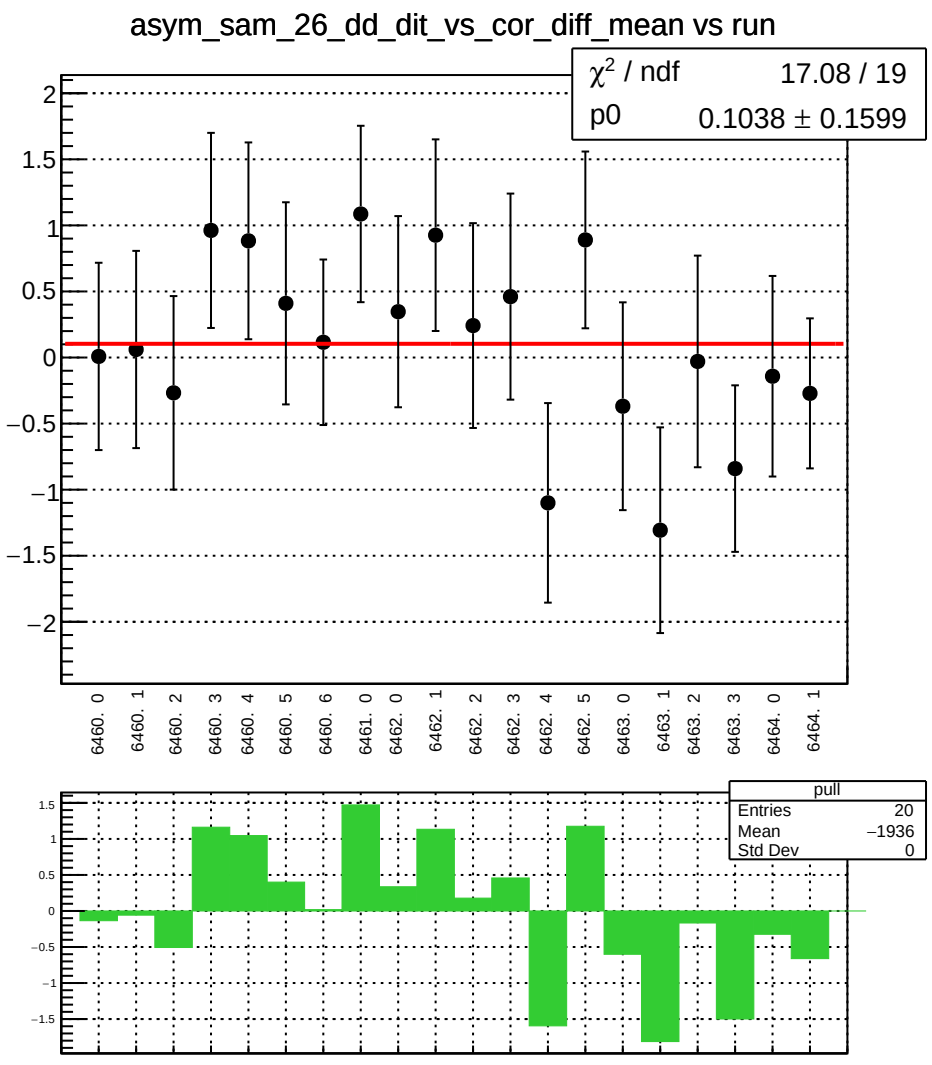

pull1D
Entries 20
Mean −0.001497
Std Dev 0.785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

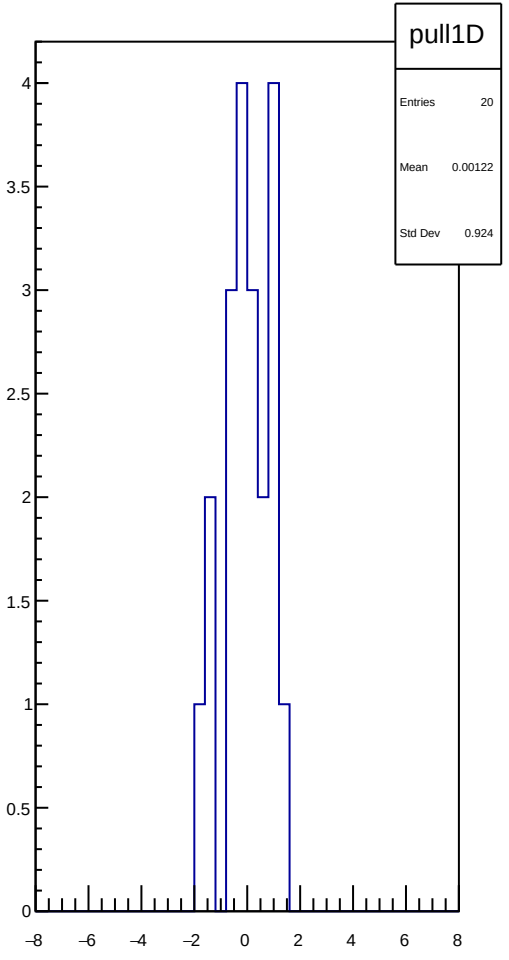

asym_sam_26_dd_rms vs run
χ² / ndf 677.6 / 19
p0 1414 ± 2.223
1500
1450
1400
1350
1300
1250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

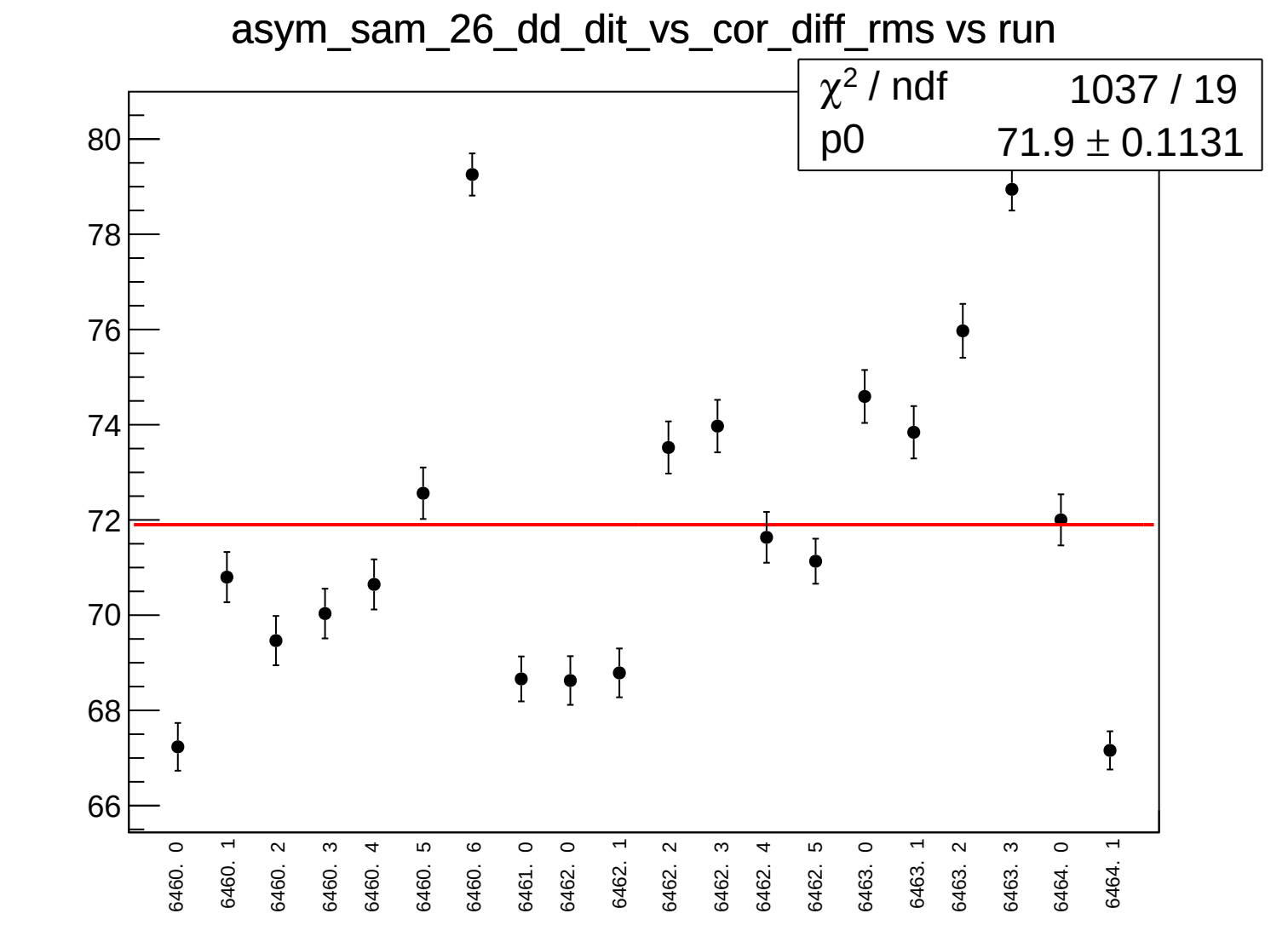

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.53 / 19
p0 7.399e−14 ± 1.258e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.142
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

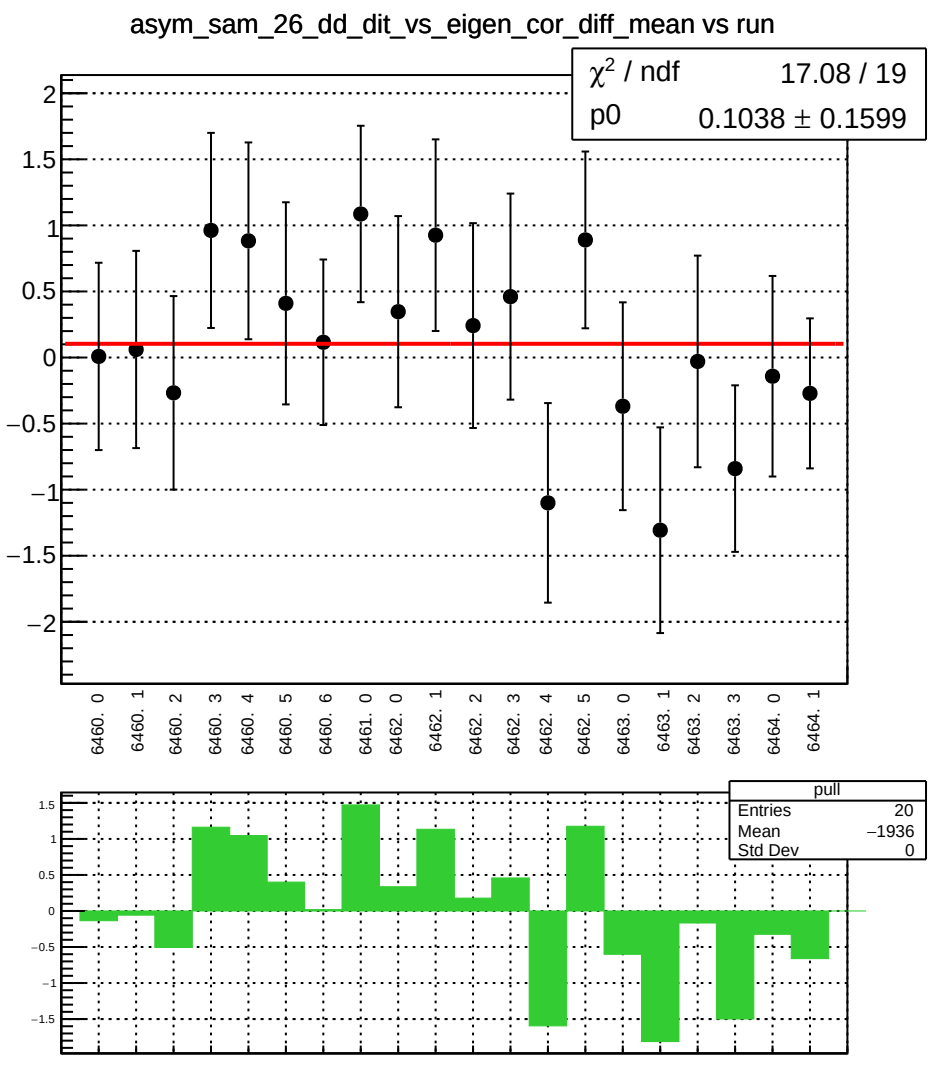

pull1D
Entries 20
Mean −0.1434
Std Dev 1.028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

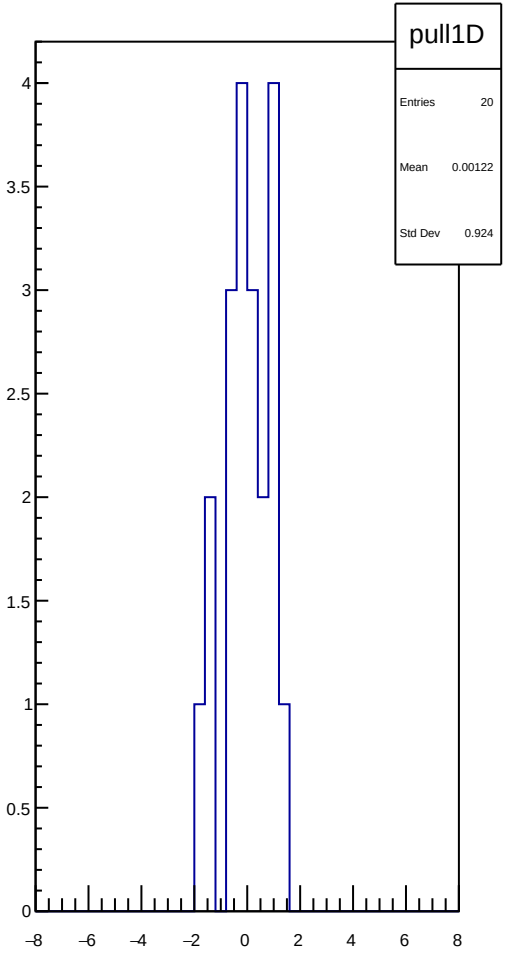

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.81e+05 / 19
p0 3.136e−11 ± 8.898e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

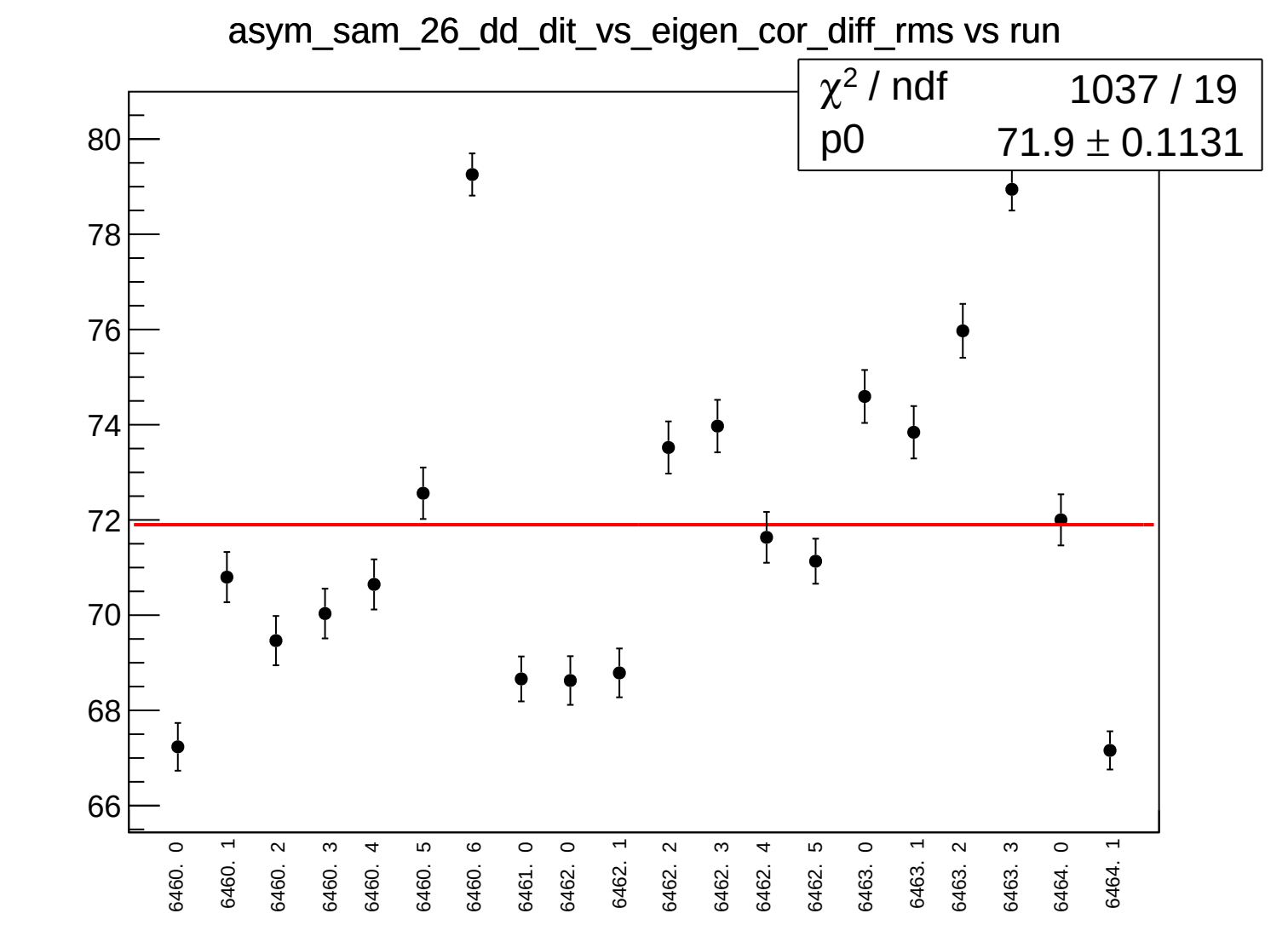

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 17.08 / 19
p0 0.1038 ± 0.1599
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1936
Std Dev 0

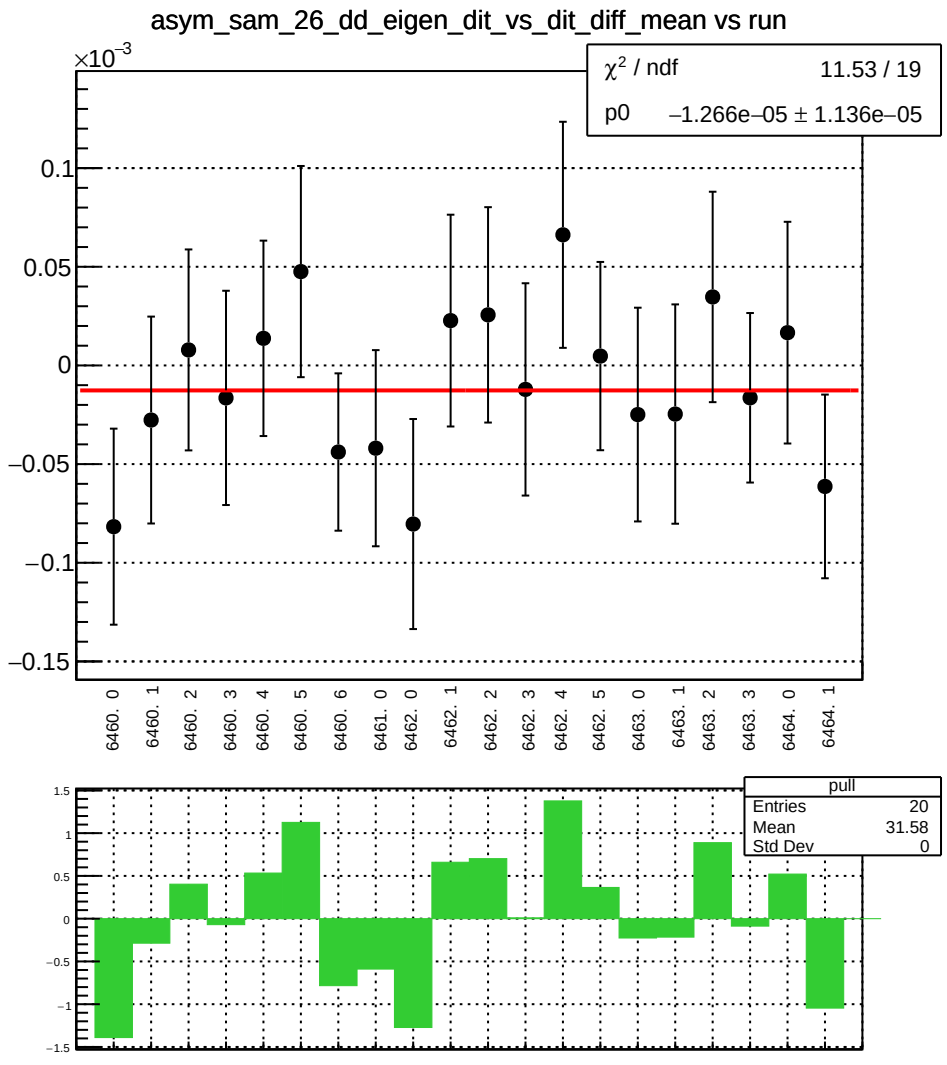

pull1D
Entries 20
Mean 0.00122
Std Dev 0.924

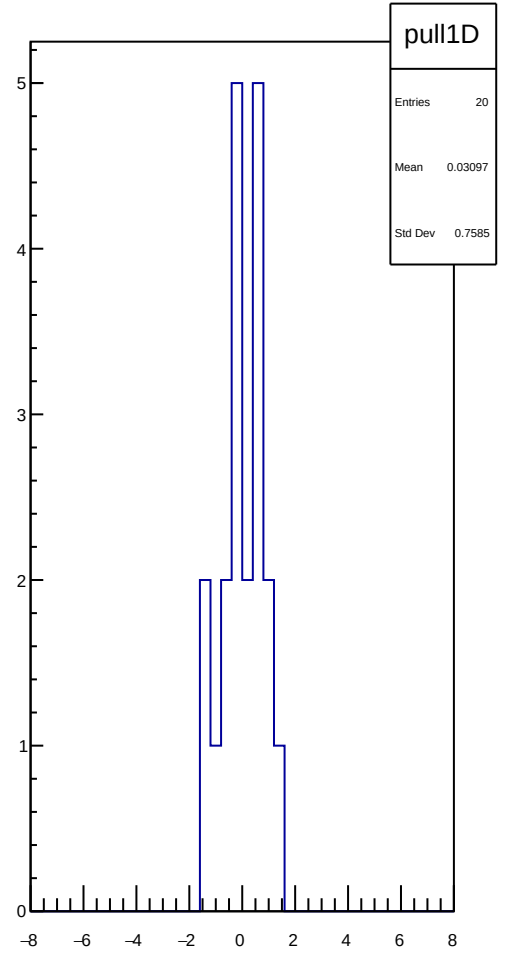

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1037 / 19
p0 71.9 ± 0.1131
80
78
76
74
72
70
68
66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

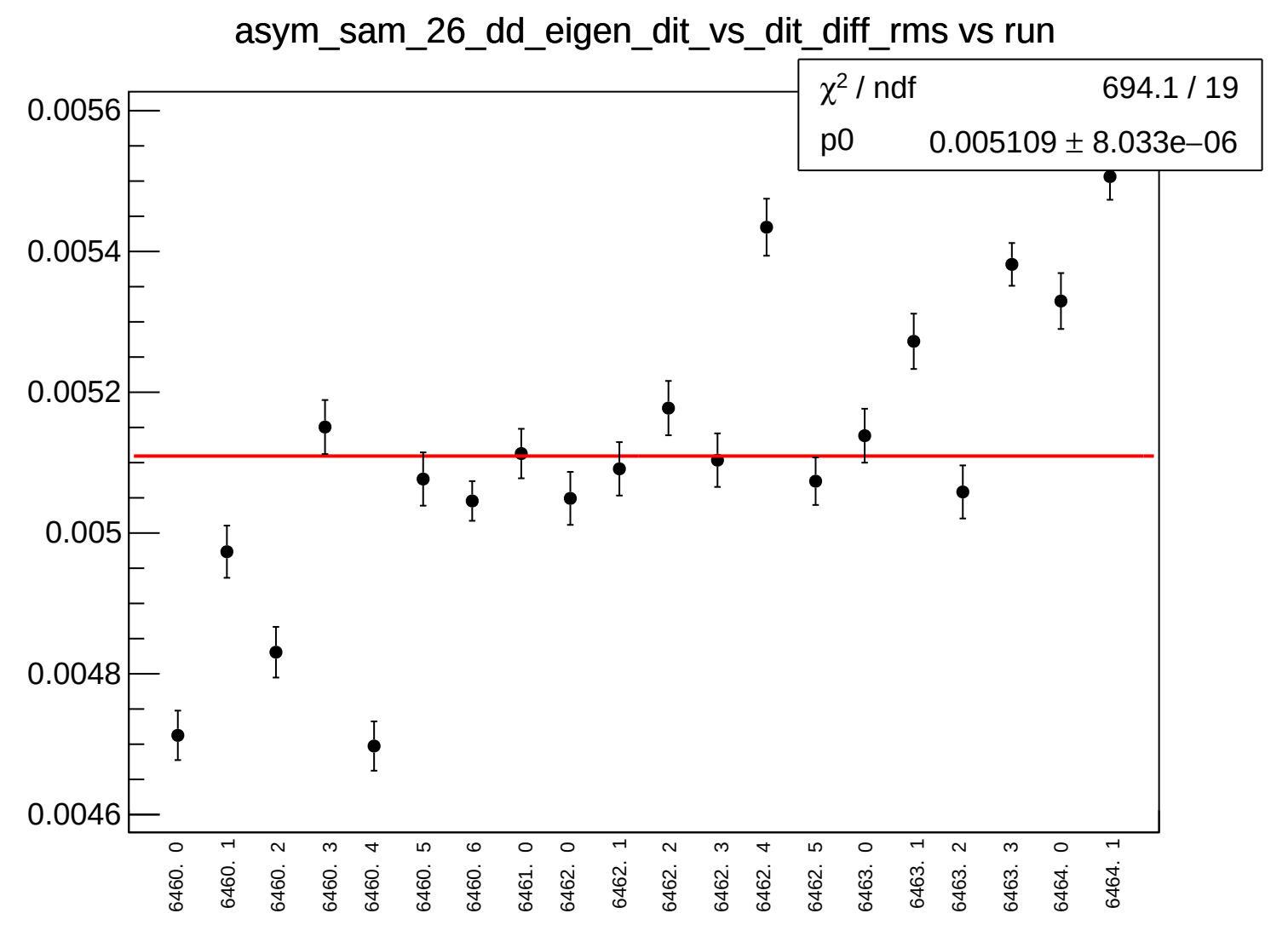

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.08 / 19
p0 0.1038 ± 0.1599
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1936
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

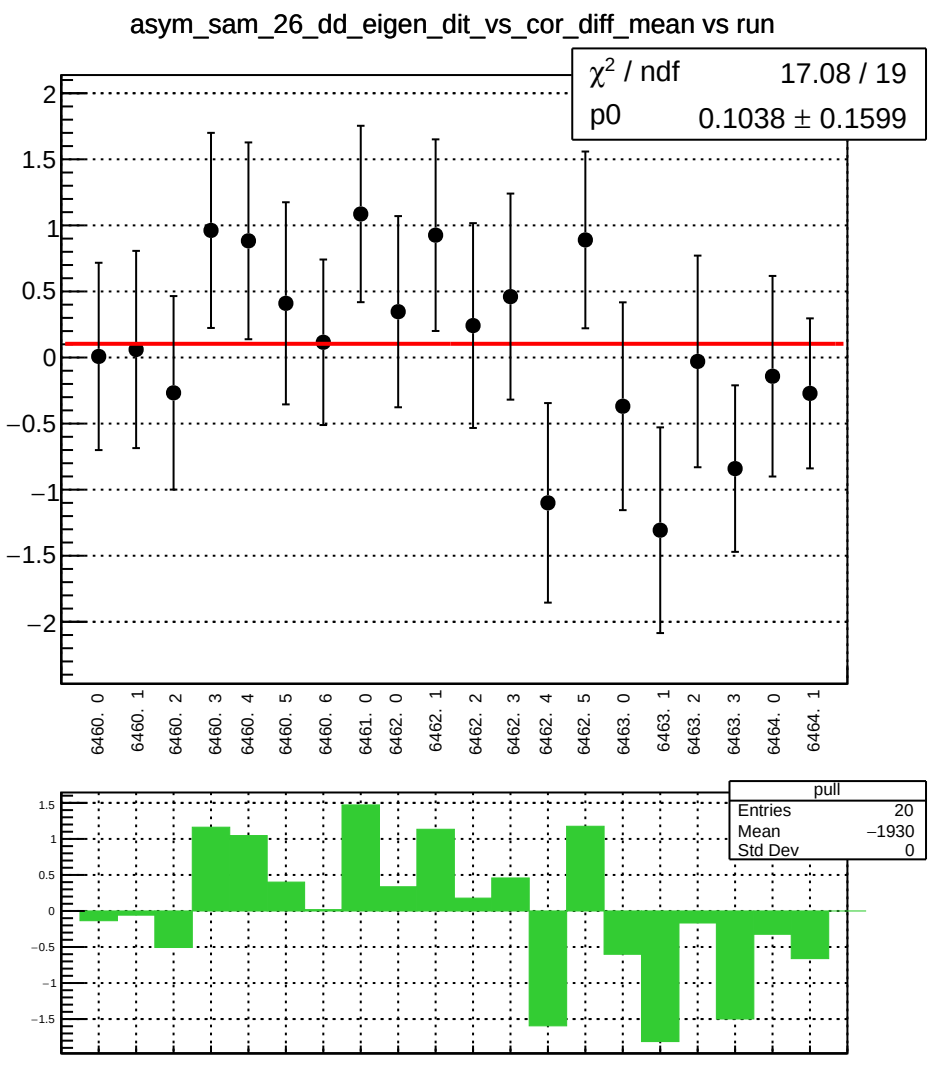

pull1D
Entries 20
Mean 0.00122
Std Dev 0.924
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

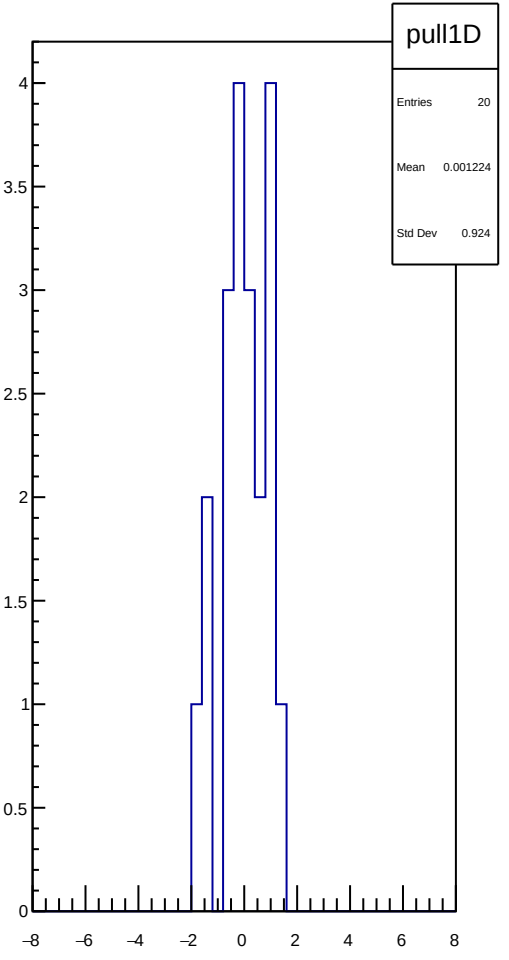

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1037 / 19
p0 71.9 ± 0.1131
80
78
76
74
72
70
68
66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

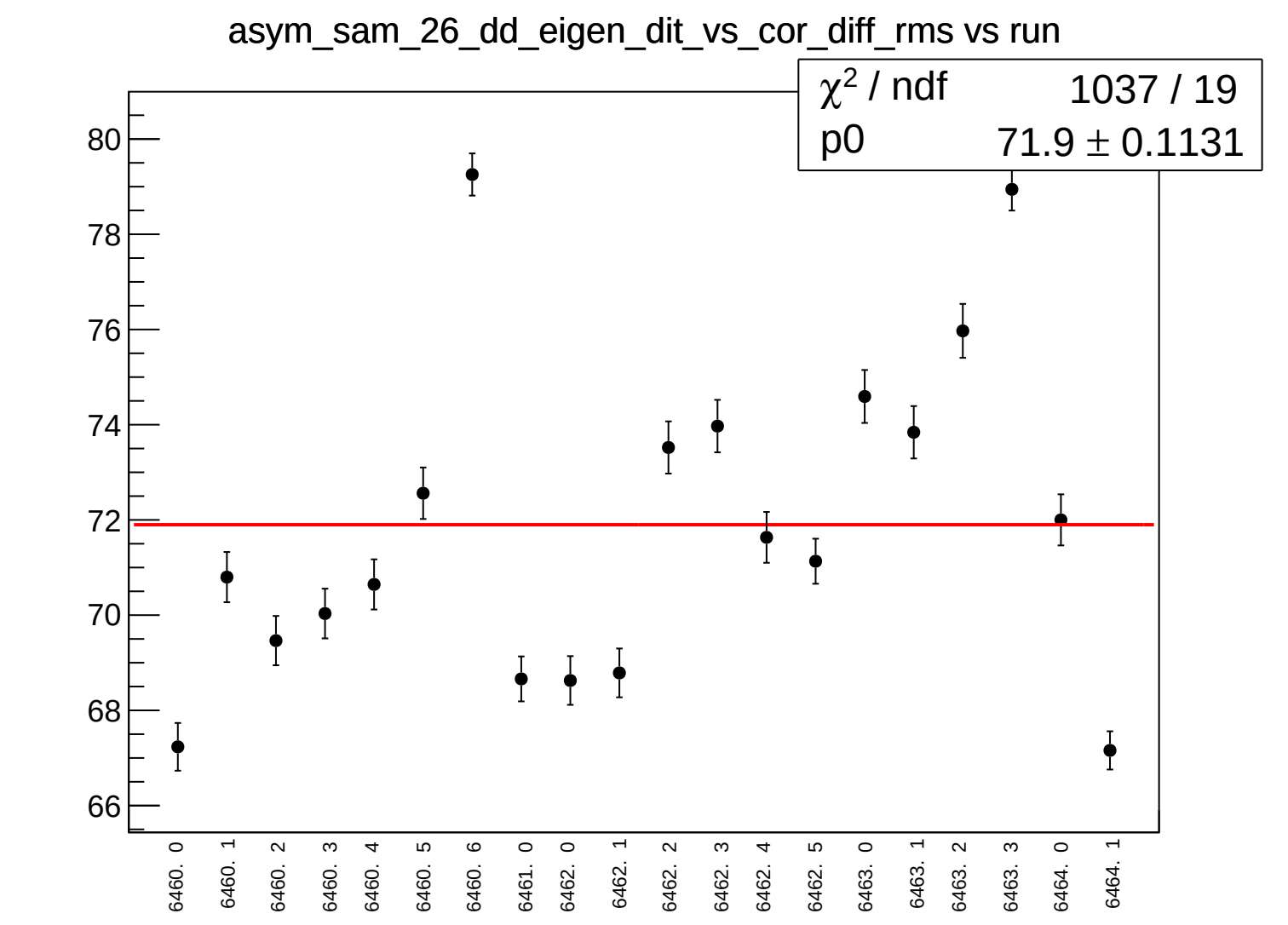

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.53 / 19
p0 −1.266e−05 ± 1.136e−05
0.1
0.05
0
−0.05
−0.1
−0.15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

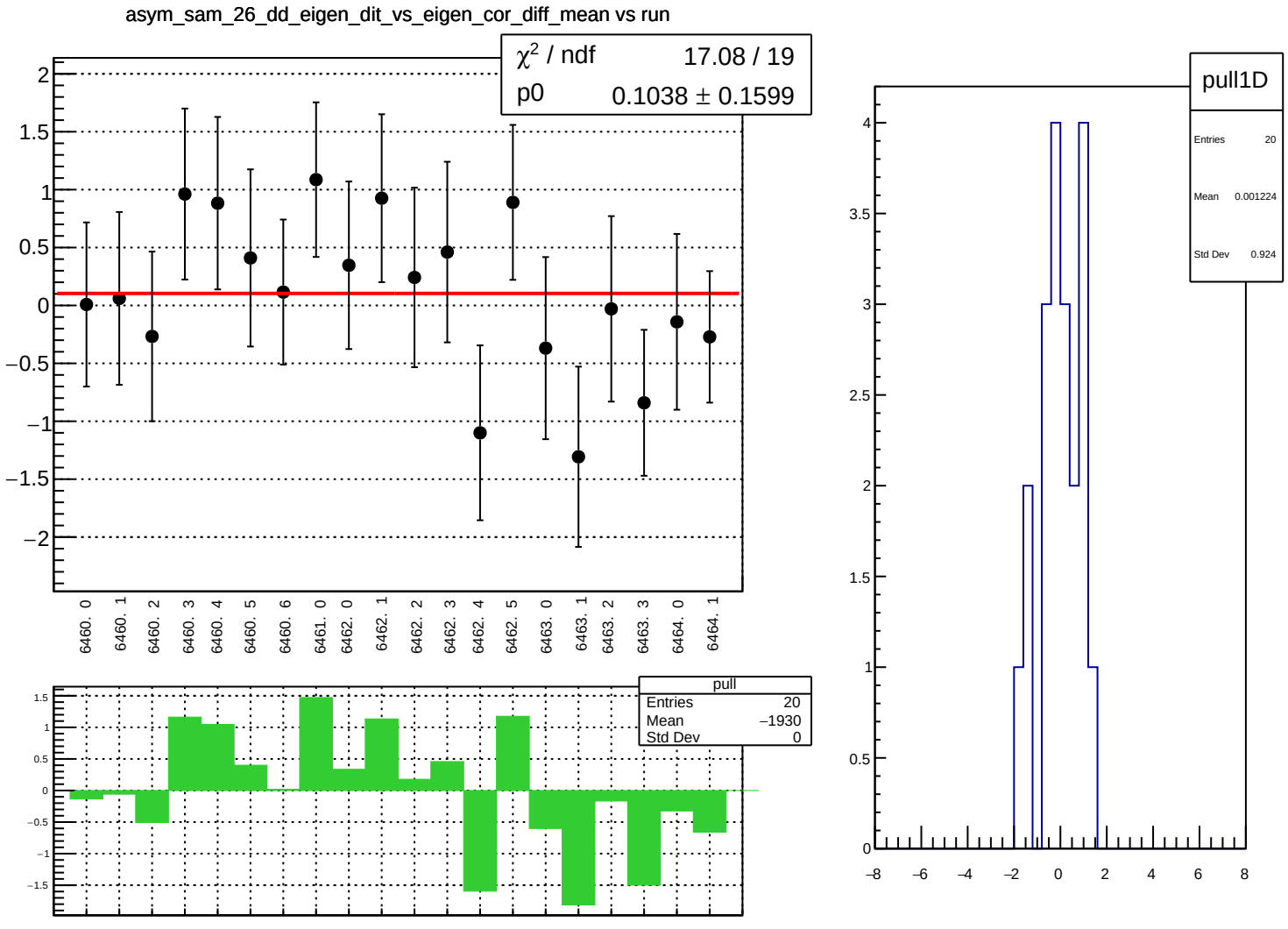

pull1D
Entries 20
Mean 0.03097
Std Dev 0.7585
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

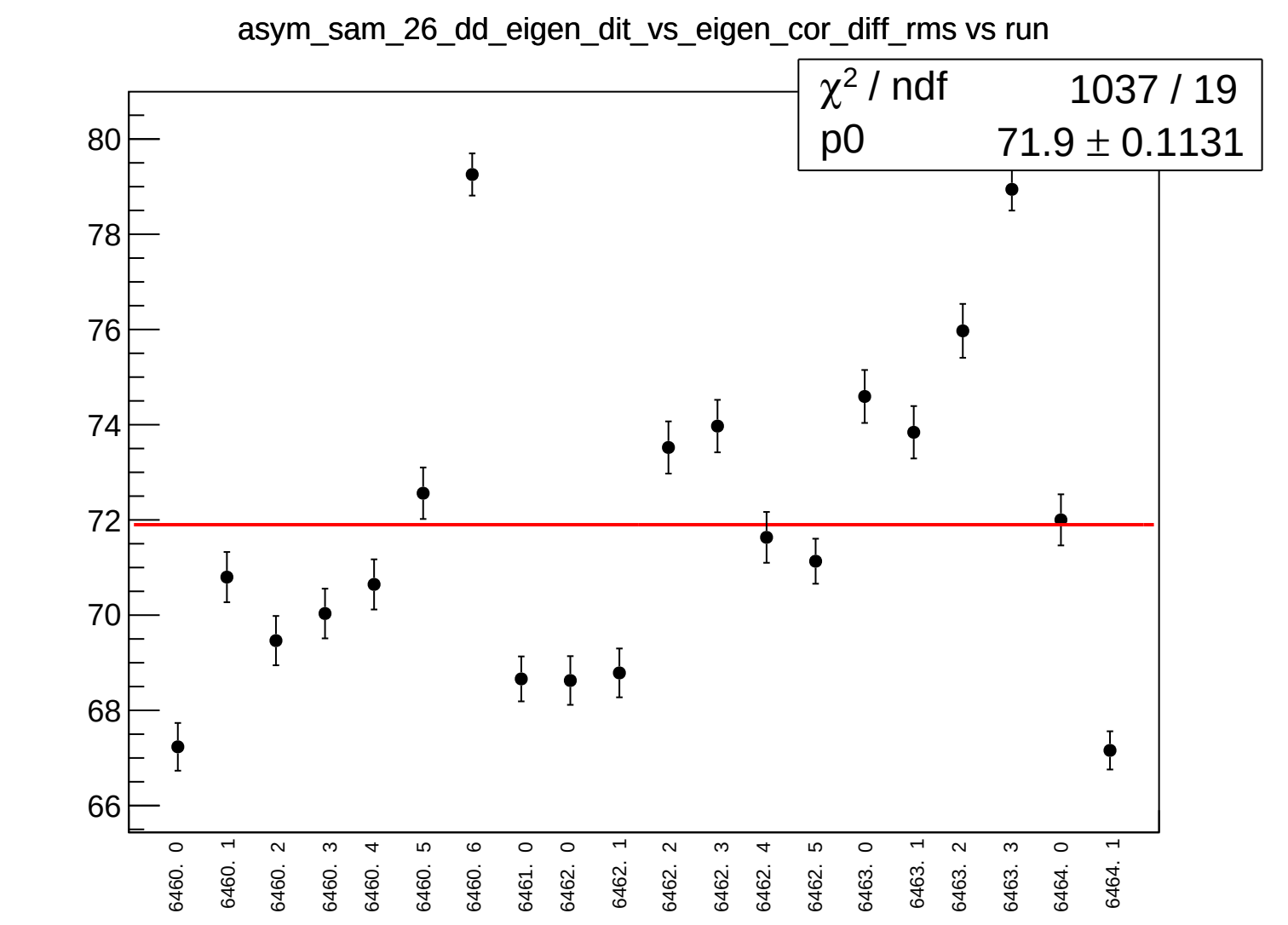

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 694.1 / 19
p0 0.005109 ± 8.033e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

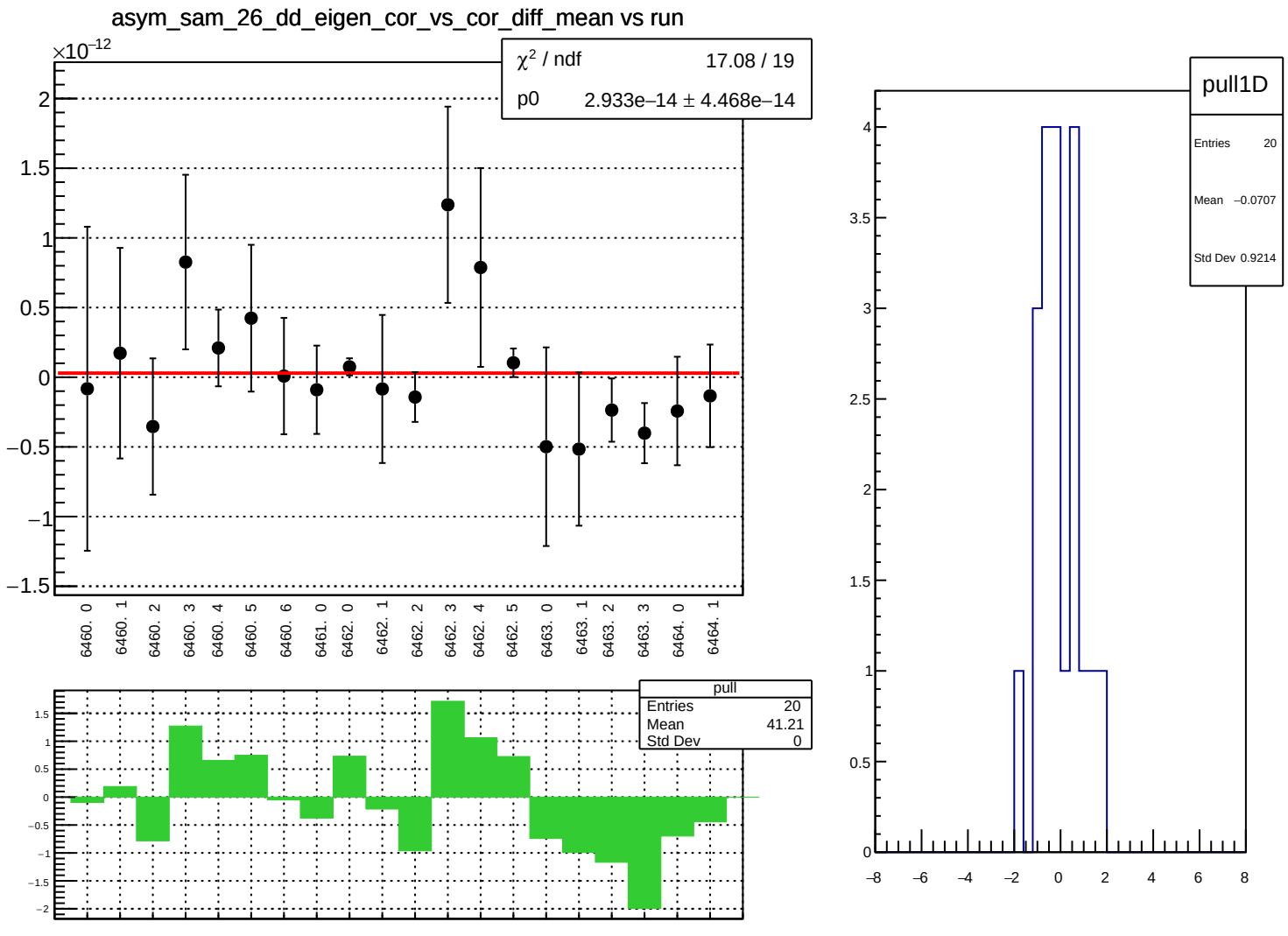

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.08 / 19
p0 0.1038 ± 0.1599
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1930
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

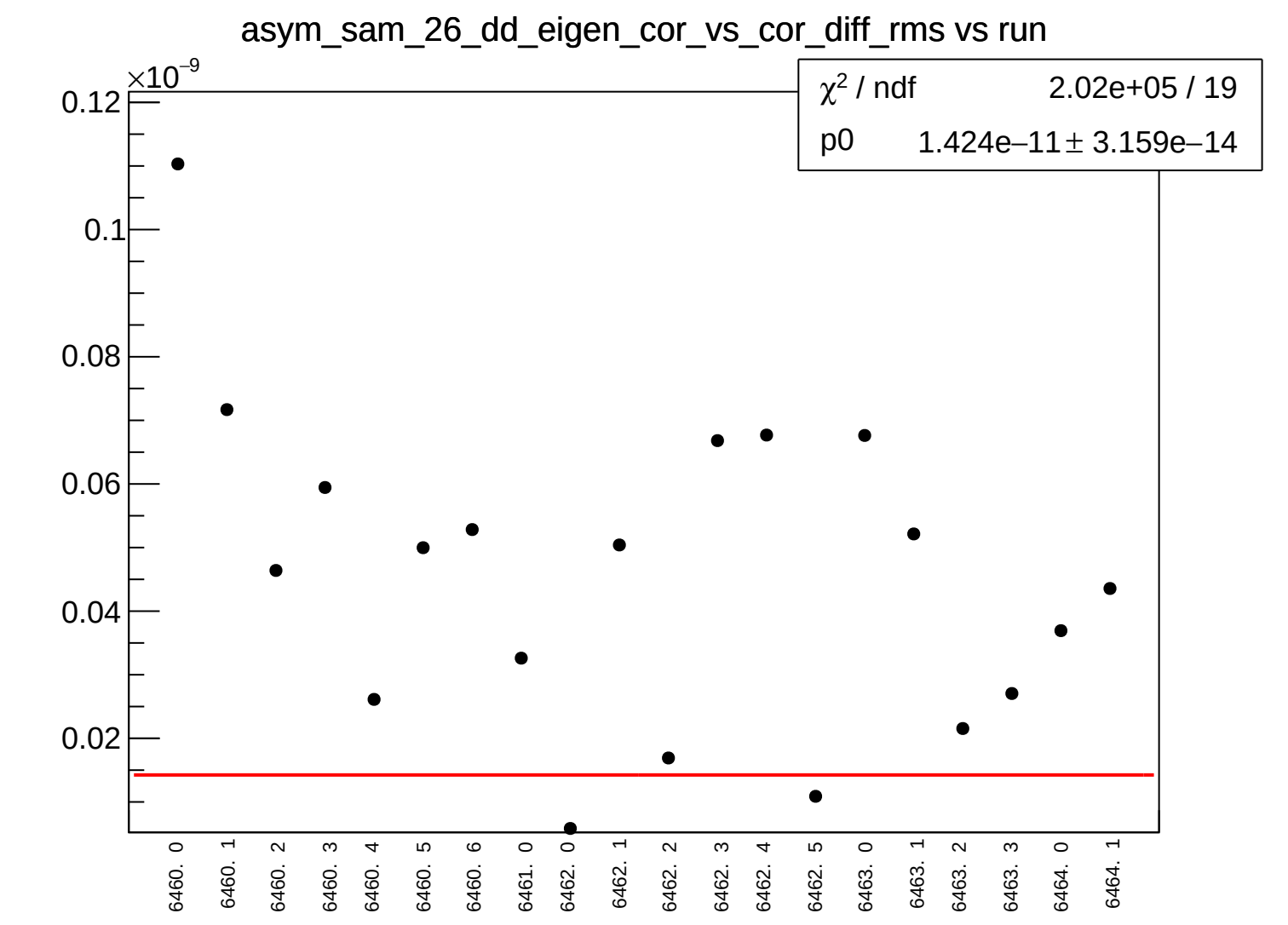

pull1D
Entries 20
Mean 0.001224
Std Dev 0.924
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

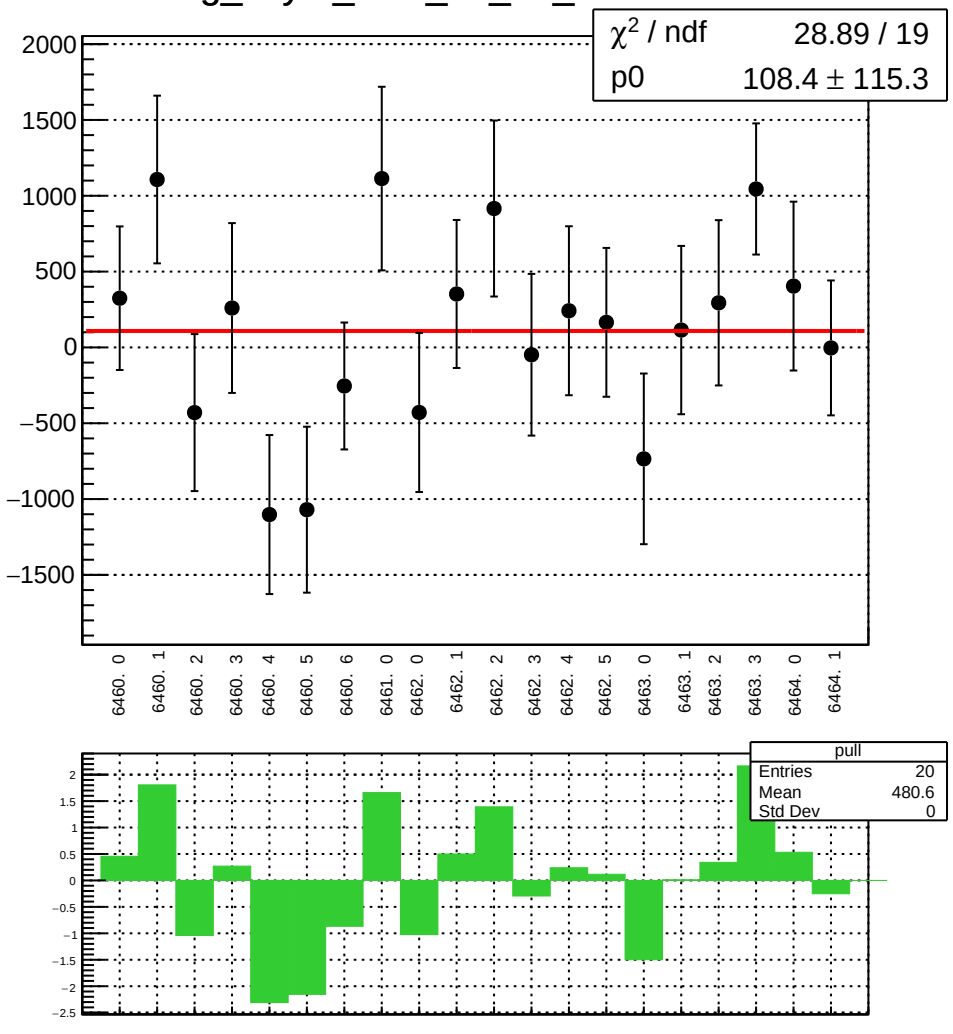

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1037 / 19
p0 71.9 ± 0.1131
80
78
76
74
72
70
68
66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

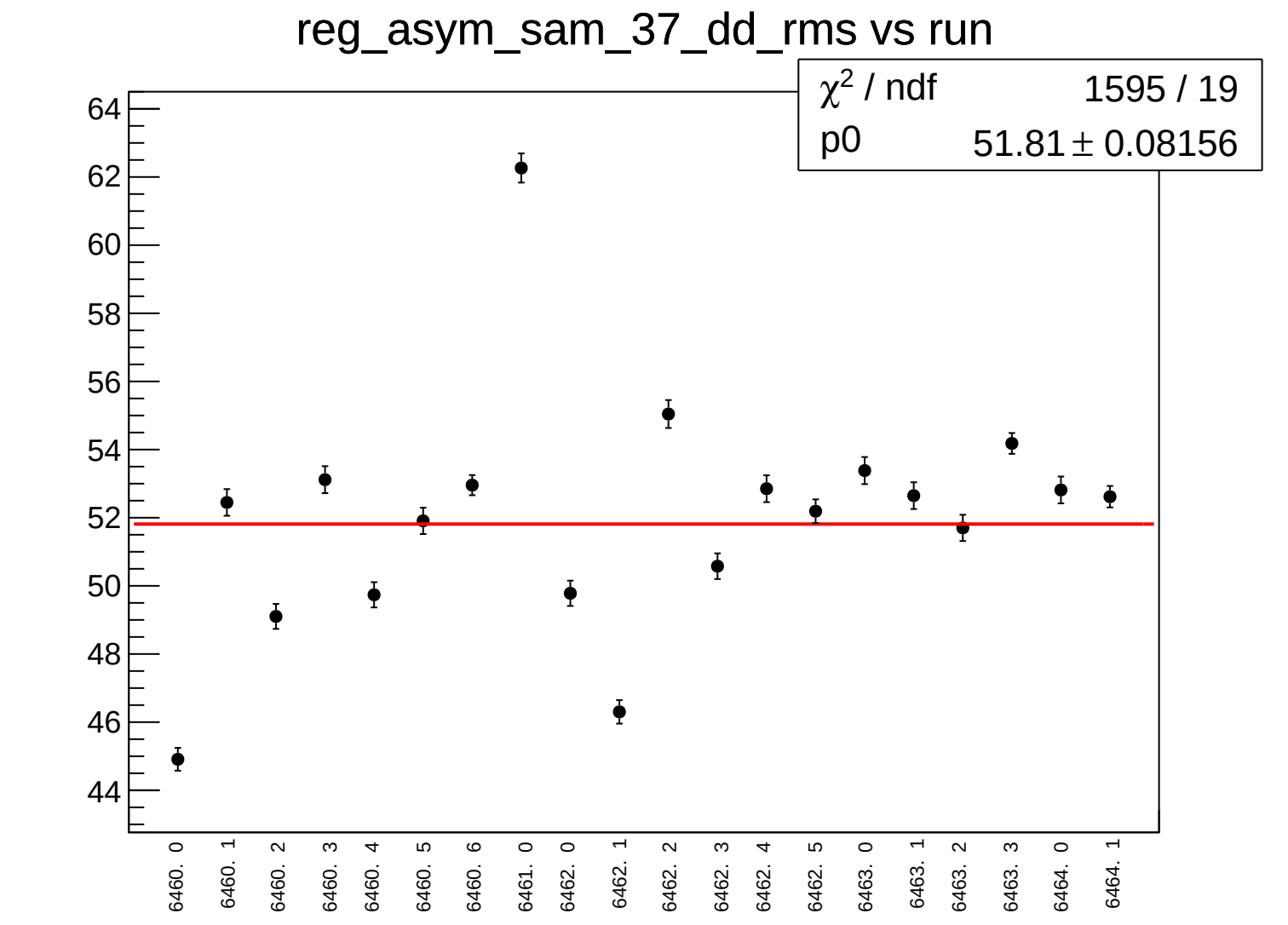

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.08 / 19
p0 0.1038 ± 0.1599
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1930
Std Dev 0
pull1D
Entries 20
Mean 0.001224
Std Dev 0.924

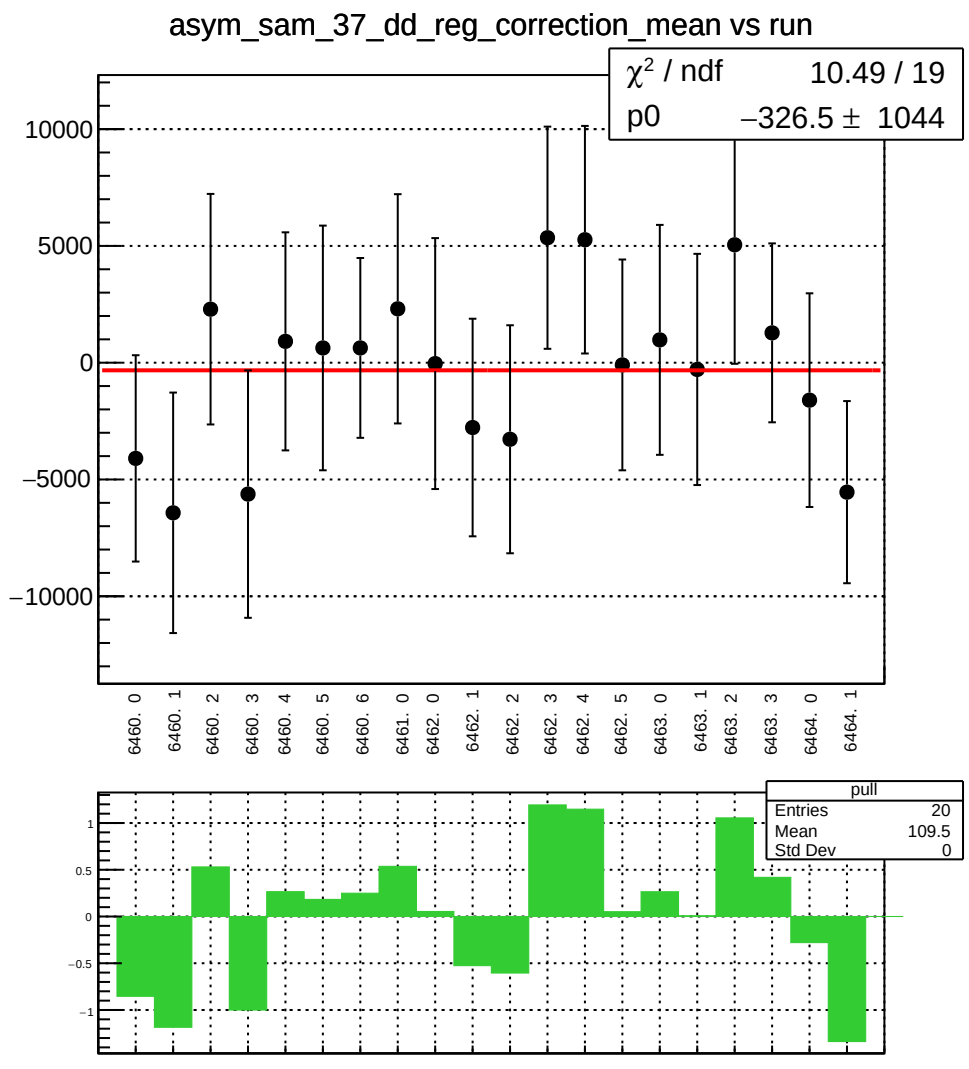

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1037 / 19
p0 71.9 ± 0.1131
80
78
76
74
72
70
68
66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

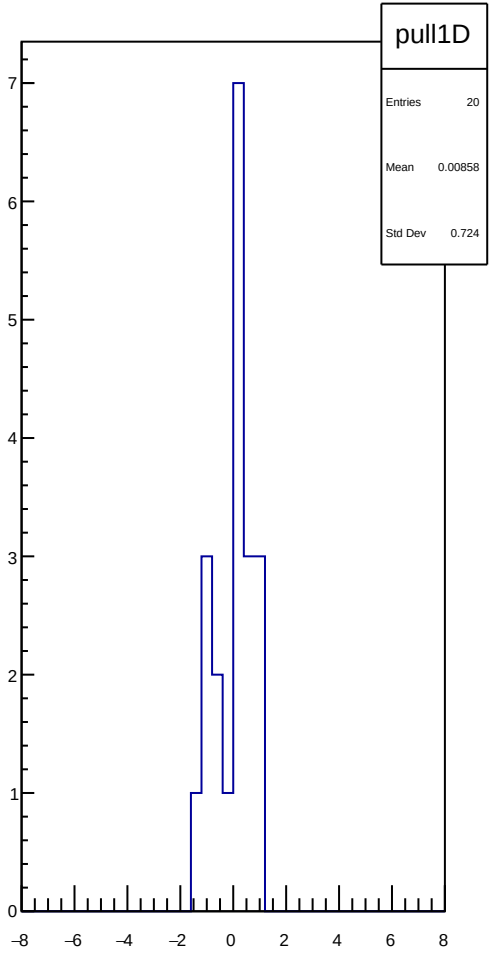

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.08 / 19
p0 2.933e−14 ± 4.468e−14
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 41.21
Std Dev 0
pull1D
Entries 20
Mean −0.0707
Std Dev 0.9214
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

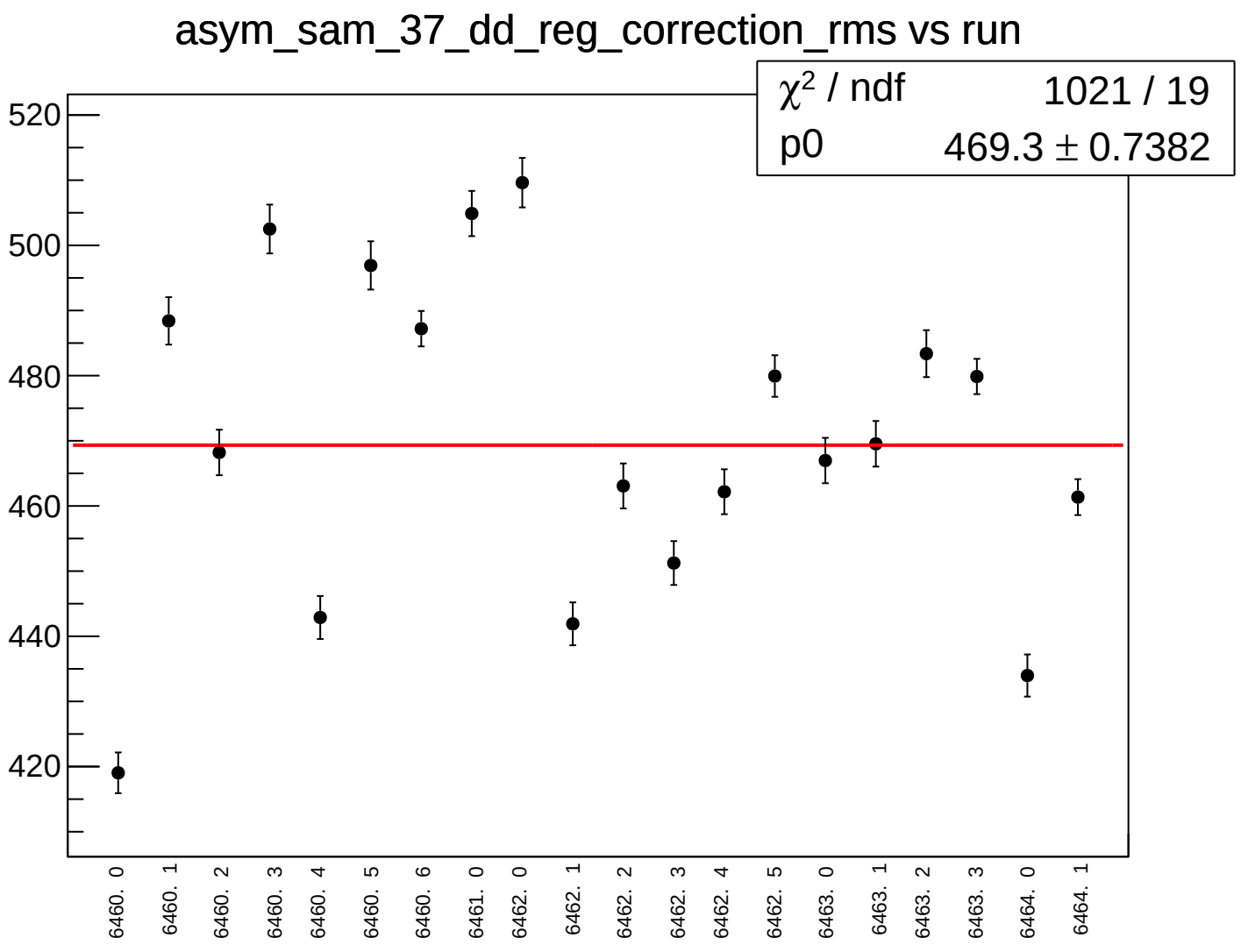

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.02e+05 / 19
p0 1.424e−11 ± 3.159e−14
0.12
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

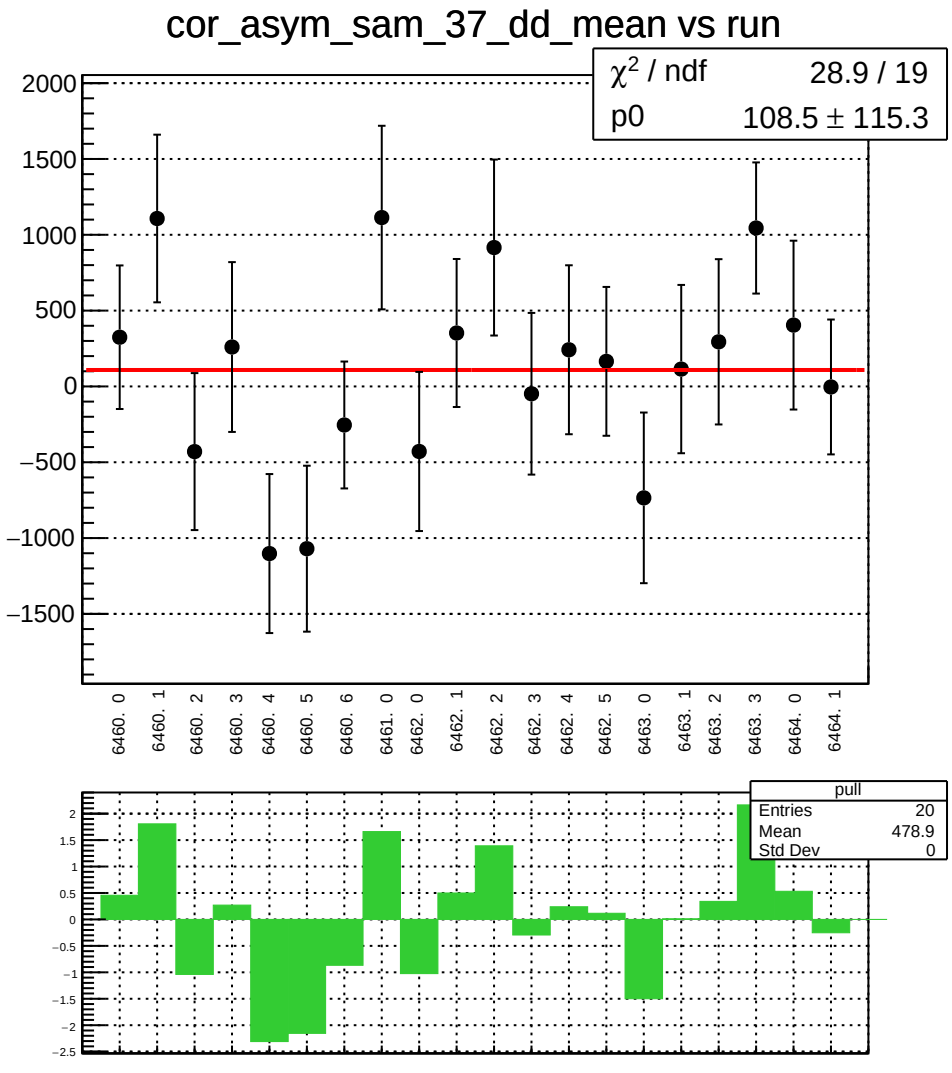

reg_asym_sam_37_dd_mean vs run
χ² / ndf 28.89 / 19
p0 108.4 ± 115.3
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 480.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean 0.002558
Std Dev 1.202
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

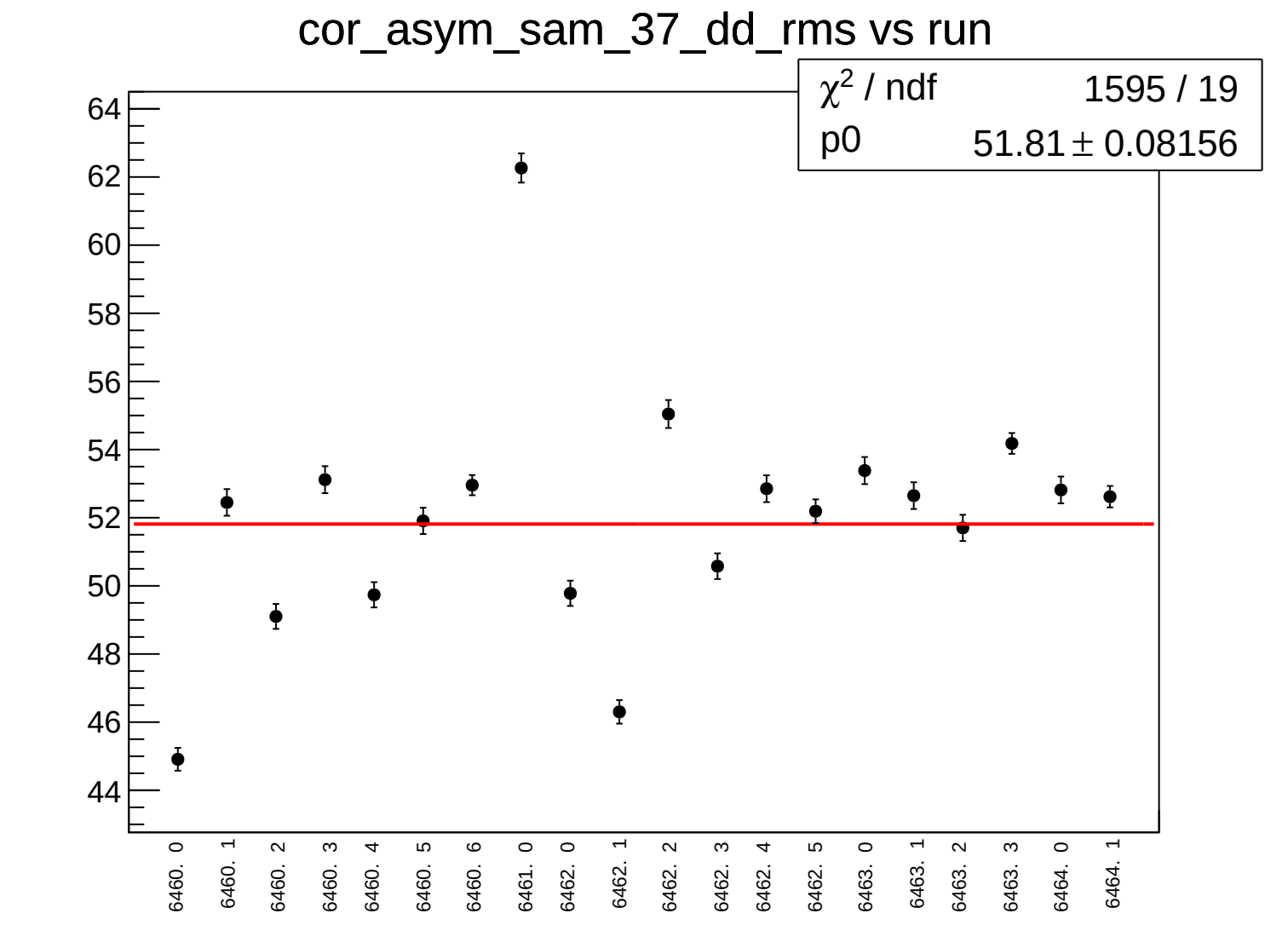

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 1595 / 19
p0 51.81 ± 0.08156
64
62
60
58
56
54
52
50
48
46
44
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

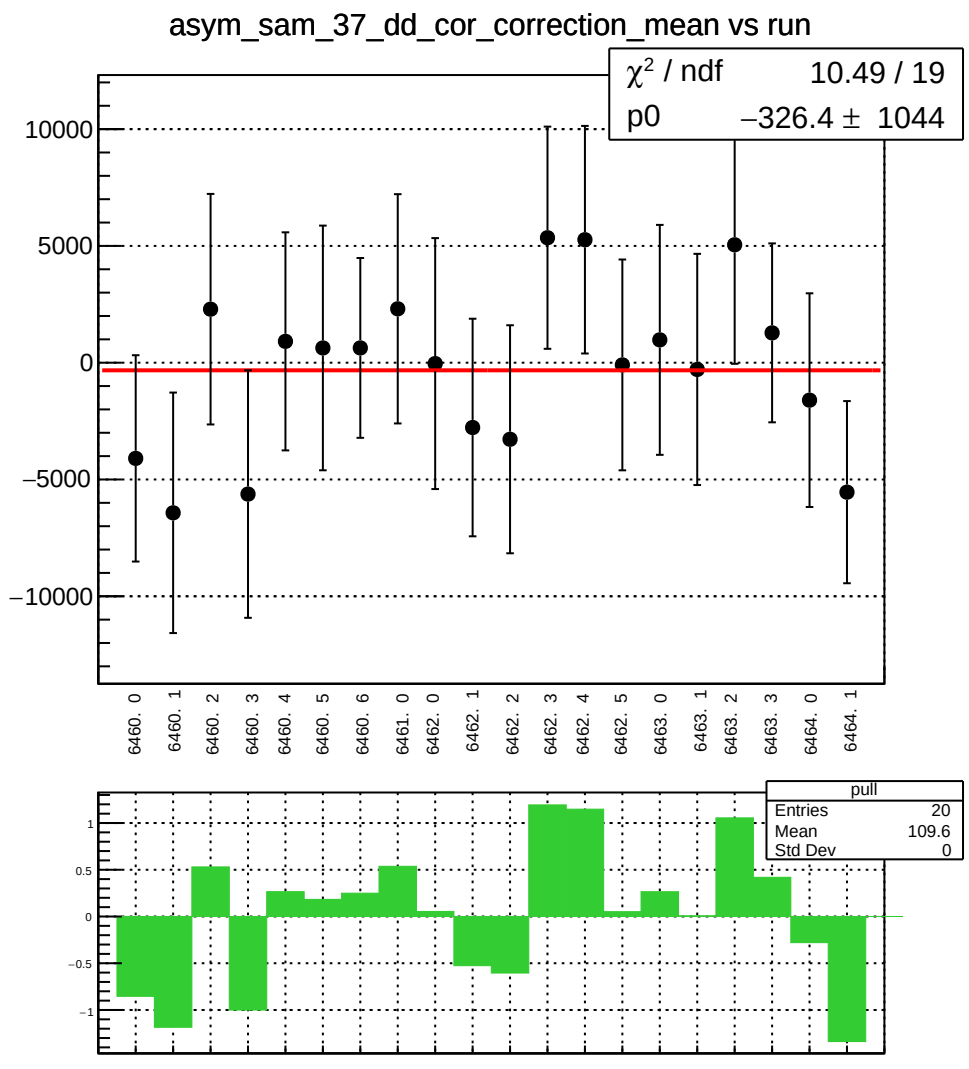

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 10.49 / 19
p0 −326.5 ± 1044
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 109.5
Std Dev 0
1
0.5
0
−0.5
−1

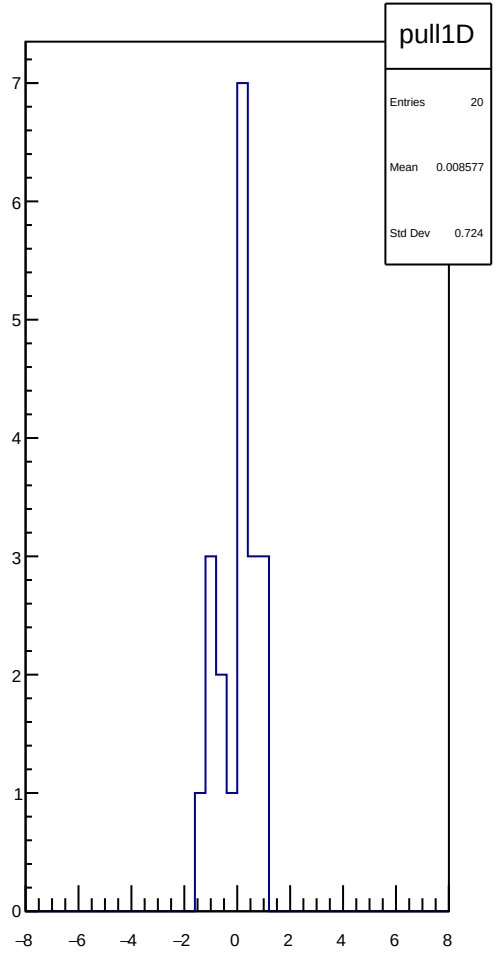

pull1D
Entries 20
Mean 0.00858
Std Dev 0.724
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

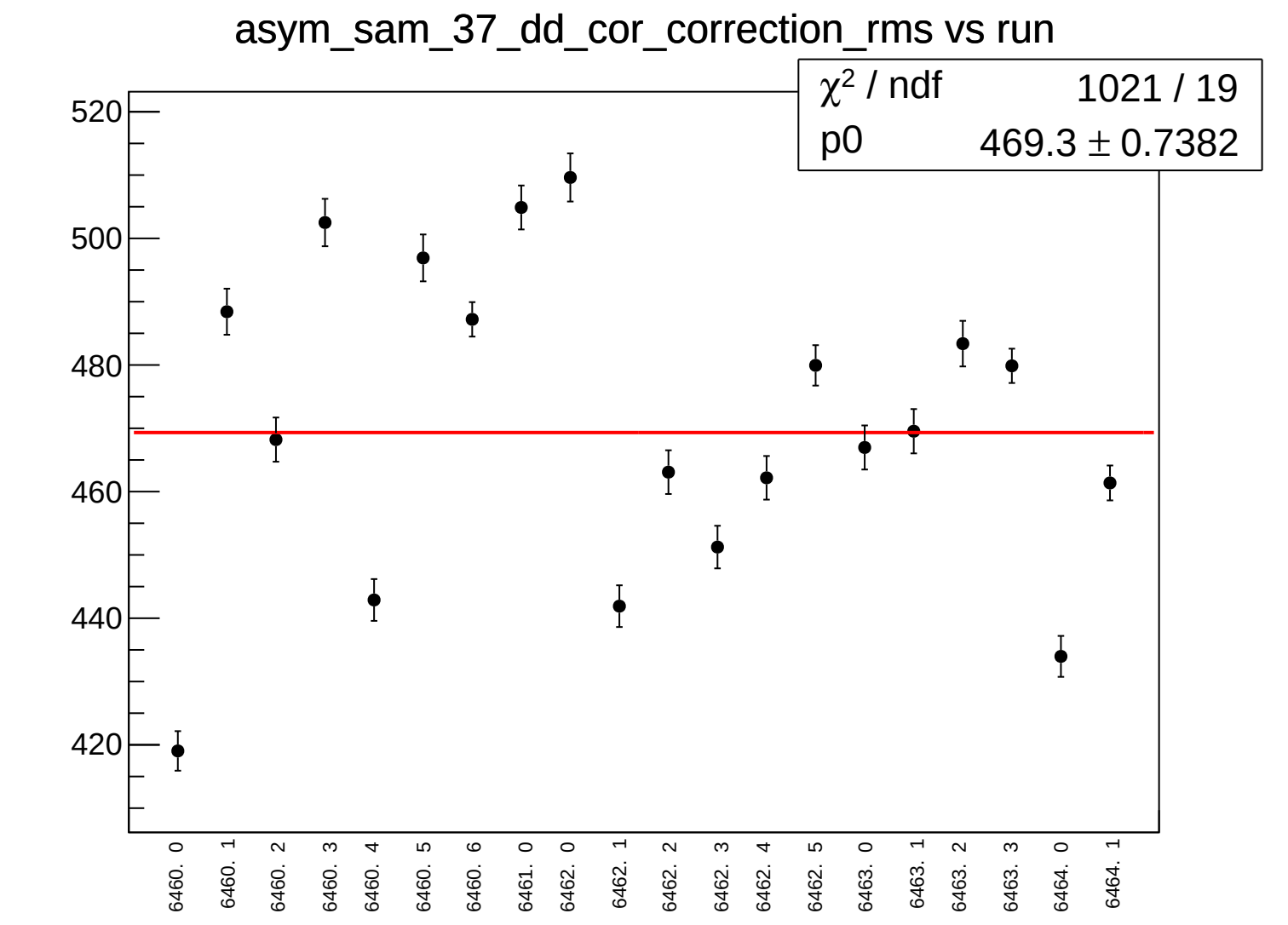

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1021 / 19
p0 469.3 ± 0.7382
520
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

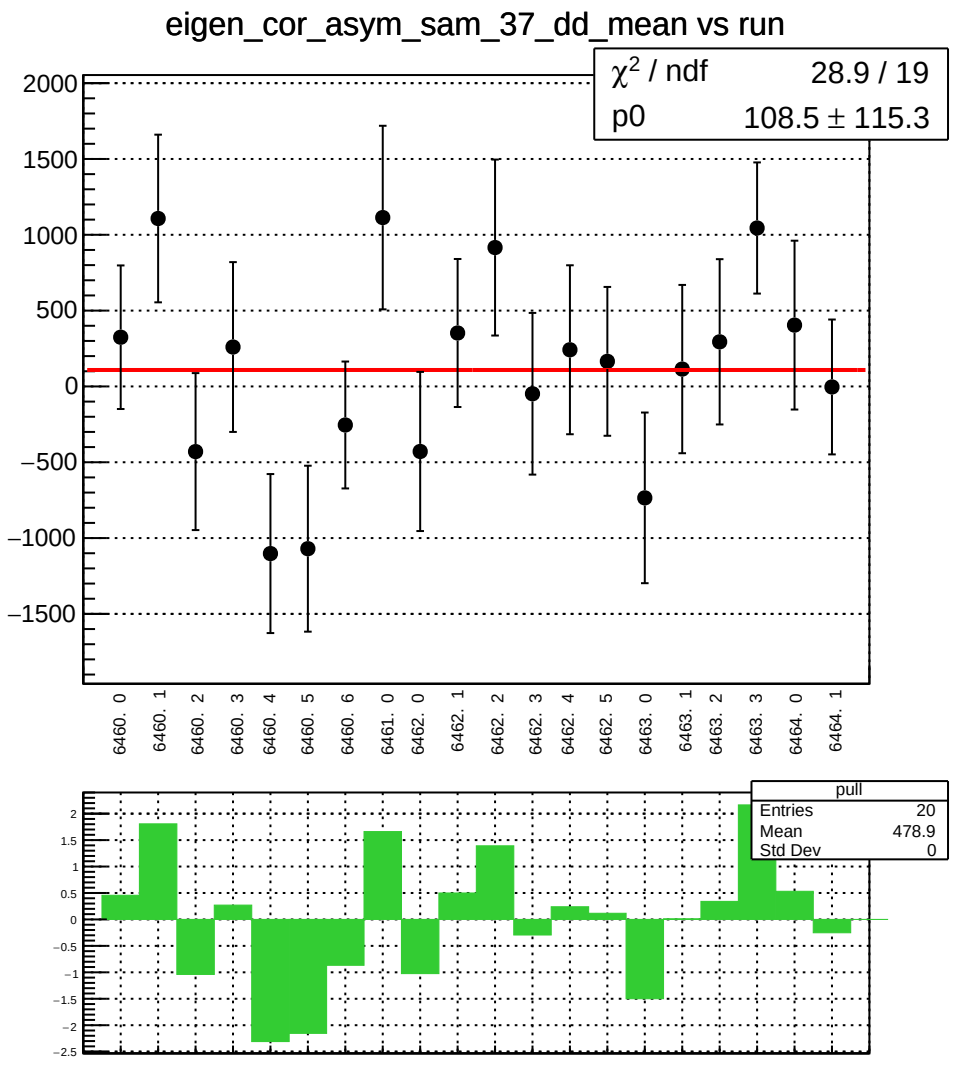

cor_asym_sam_37_dd_mean vs run
χ² / ndf 28.9 / 19
p0 108.5 ± 115.3
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 478.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean 0.002566
Std Dev 1.202
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

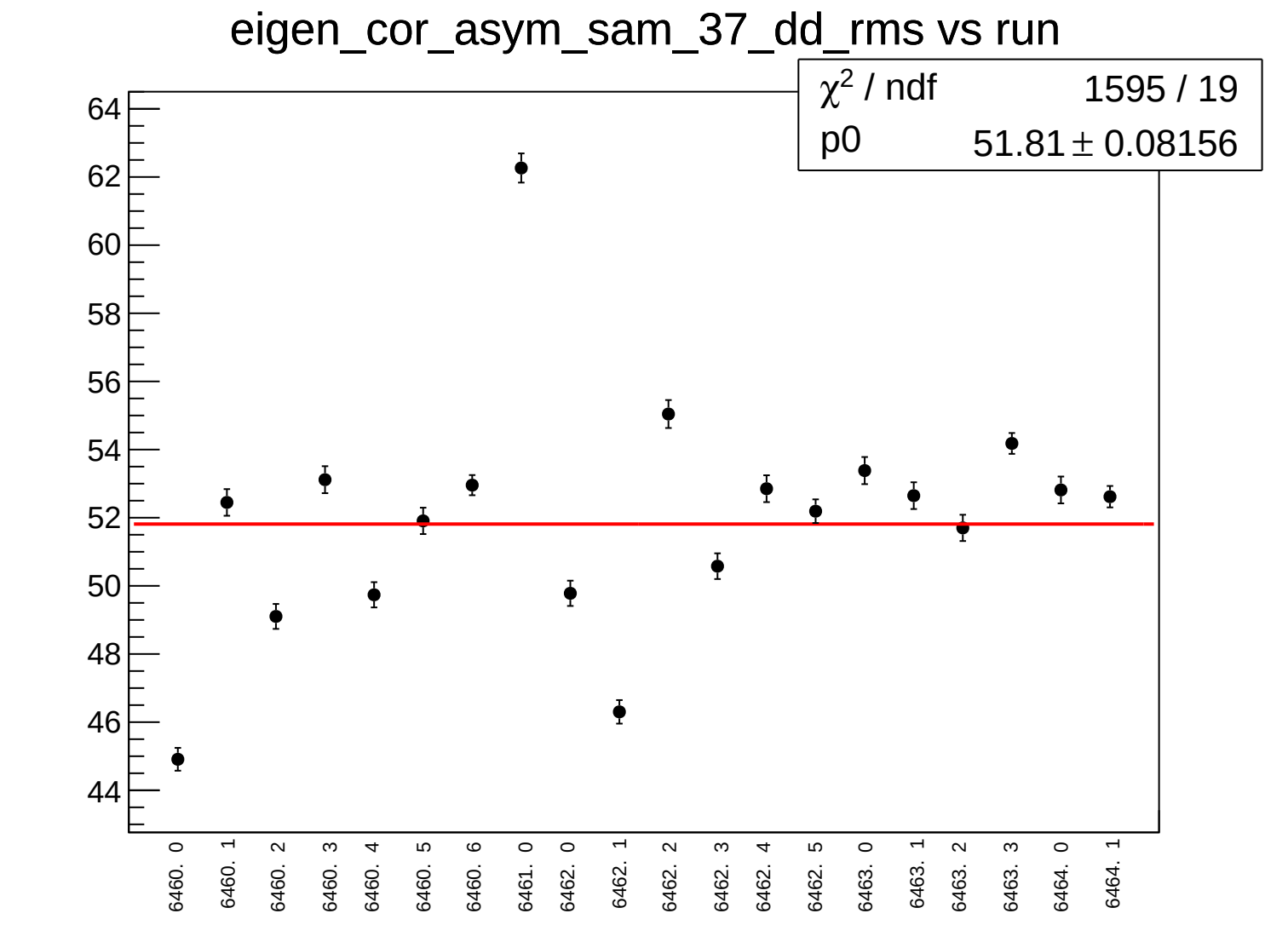

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 1595 / 19
p0 51.81 ± 0.08156
64
62
60
58
56
54
52
50
48
46
44
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

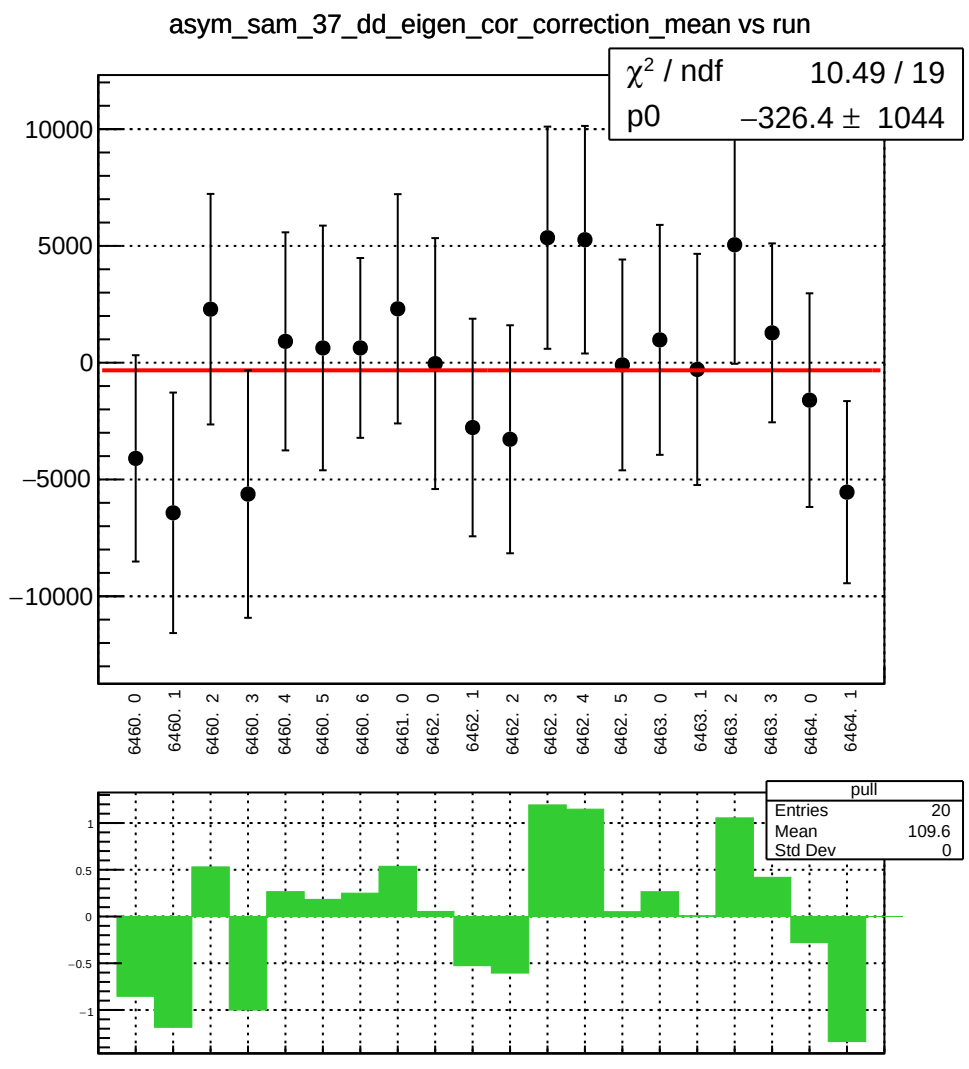

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 10.49 / 19
p0 −326.4 ± 1044
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 109.6
Std Dev 0
1
0.5
0
−0.5
−1

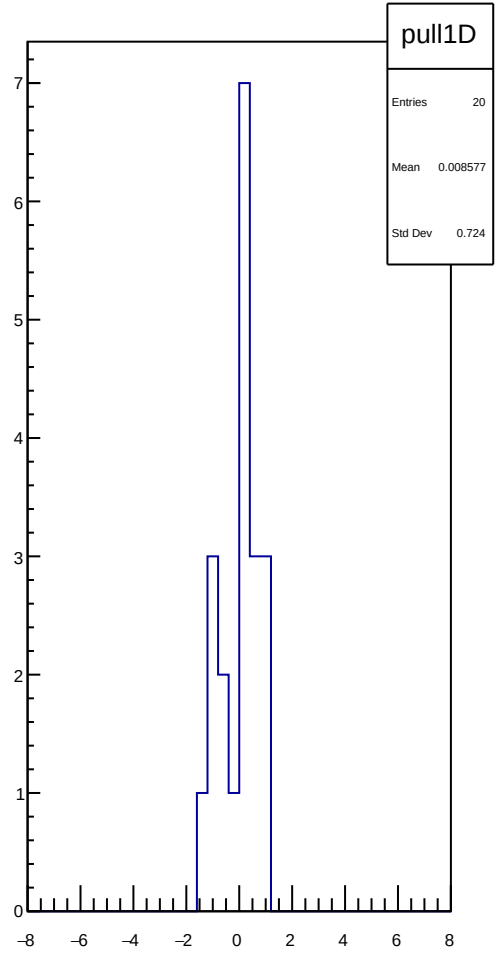

pull1D
Entries 20
Mean 0.008577
Std Dev 0.724
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1021 / 19
p0 469.3 ± 0.7382
520
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 28.9 / 19
p0 108.5 ± 115.3
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 478.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean 0.002566
Std Dev 1.202
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 1595 / 19
p0 51.81 ± 0.08156
64
62
60
58
56
54
52
50
48
46
44
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 10.49 / 19
p0 −326.4 ± 1044
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 109.6
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.008577
Std Dev 0.724
7
6
5
4
3
2
1
0
−8
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−4
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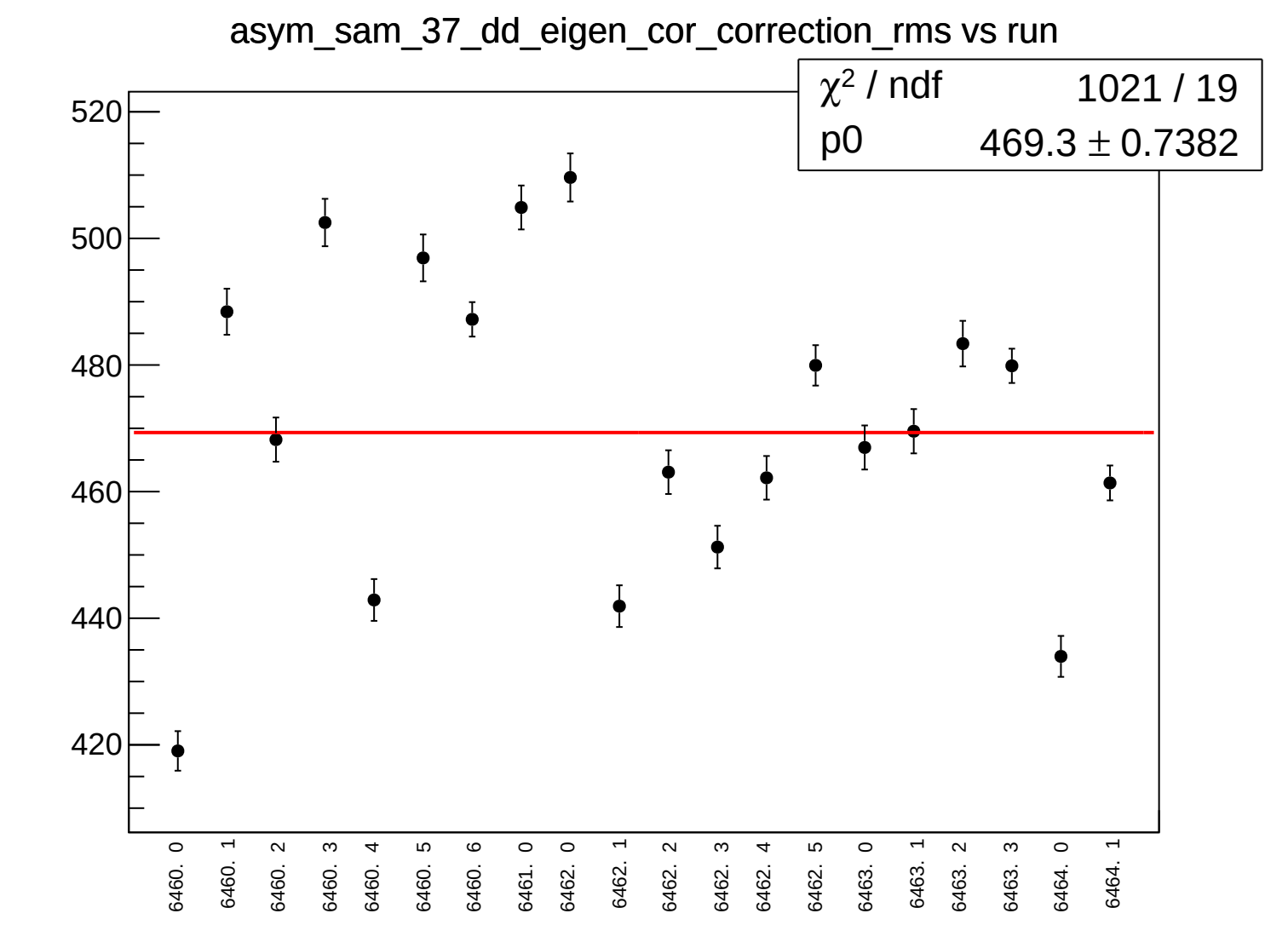
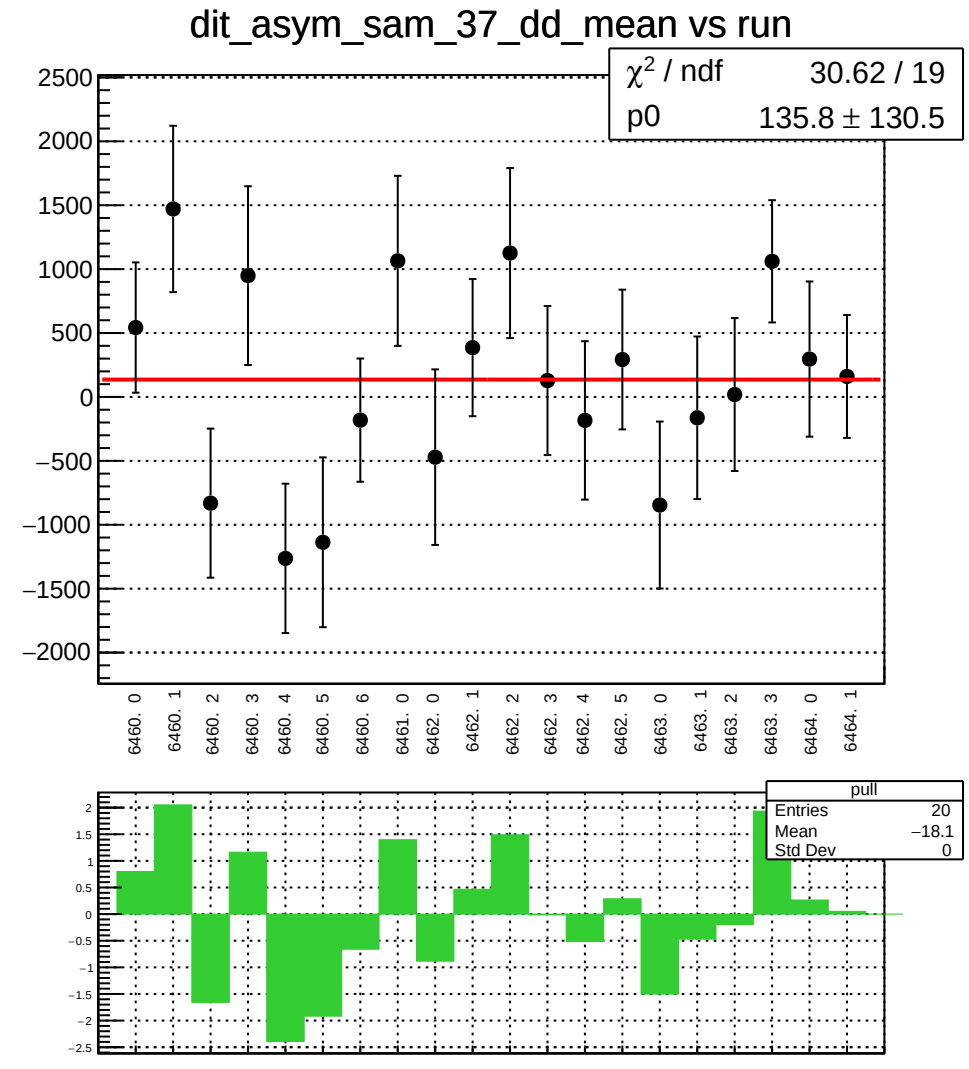
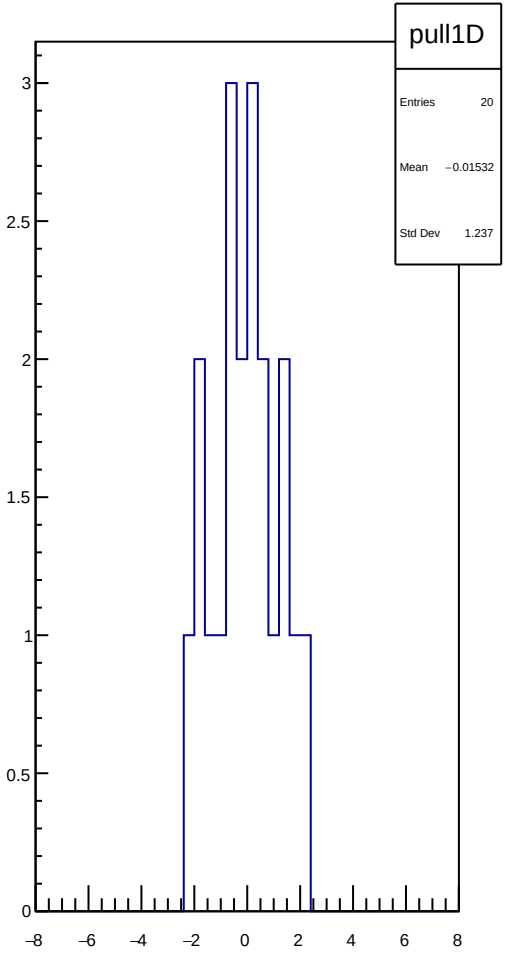
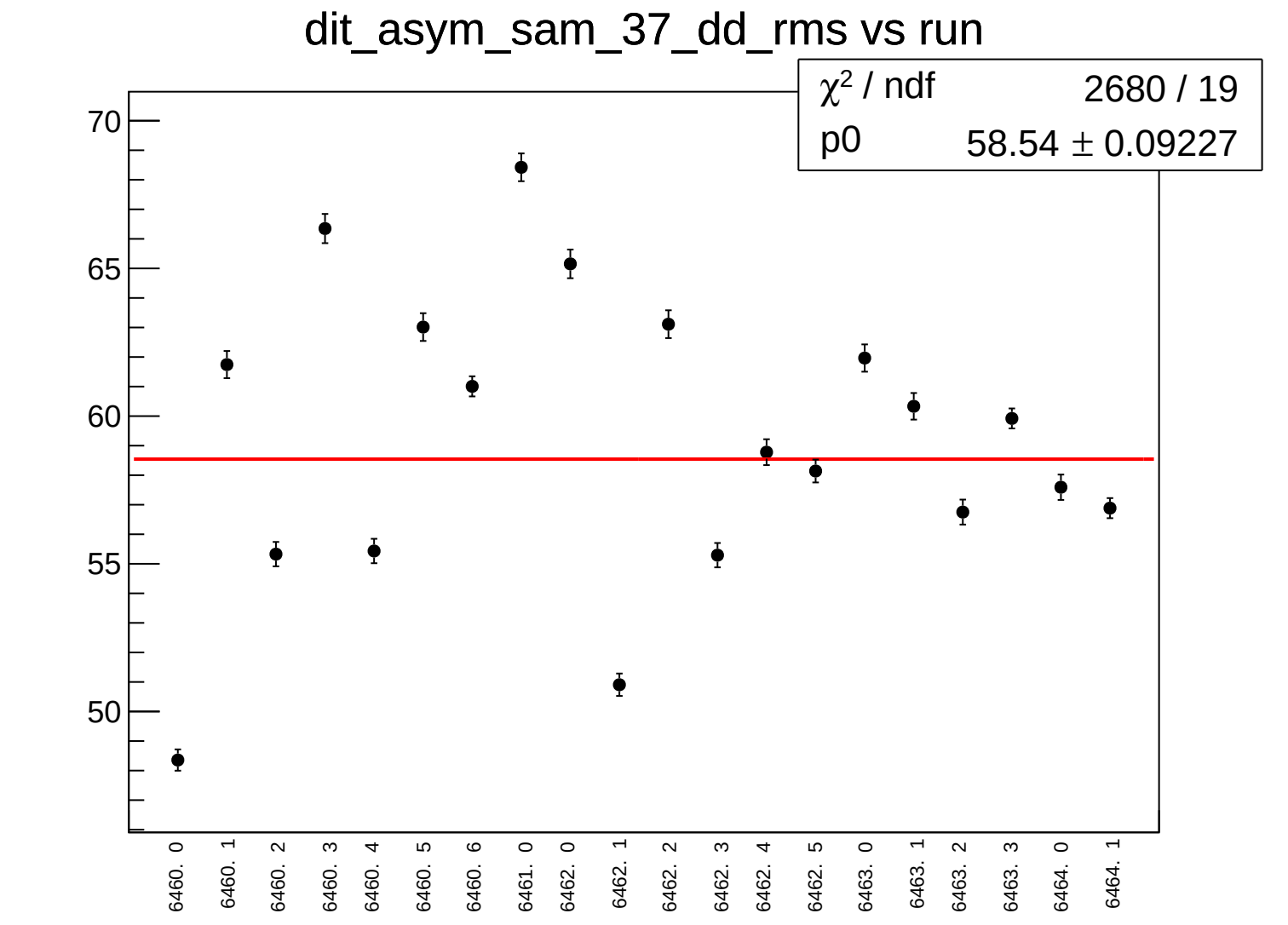
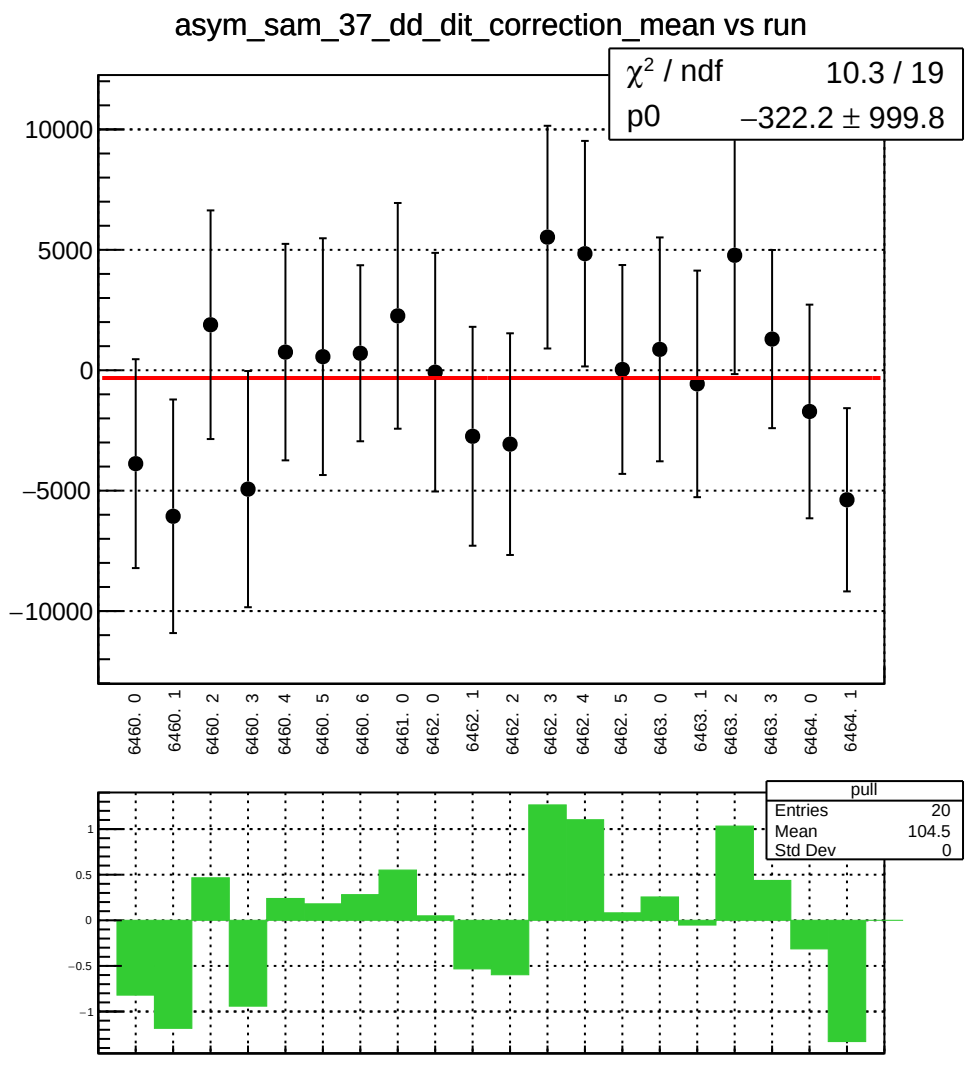
0
2
4
6
8

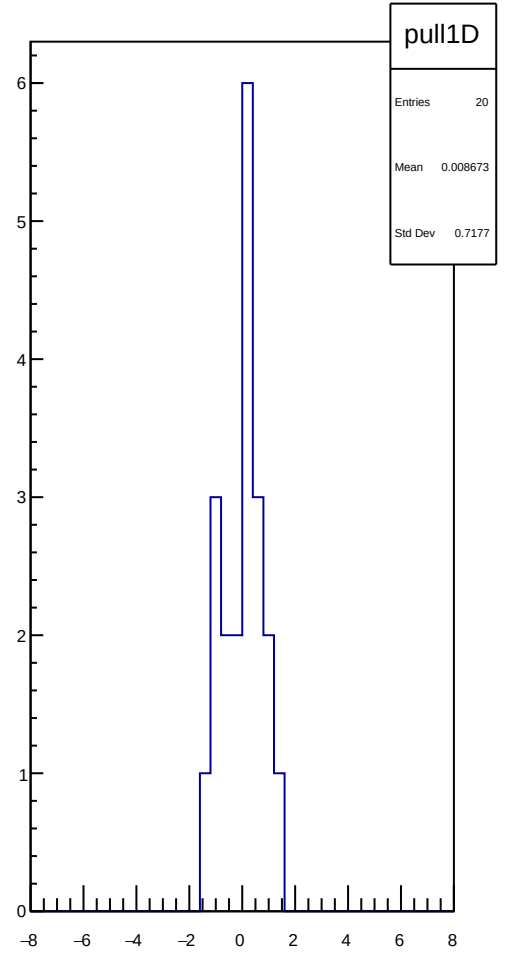

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1021 / 19
p0 469.3 ± 0.7382
520
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

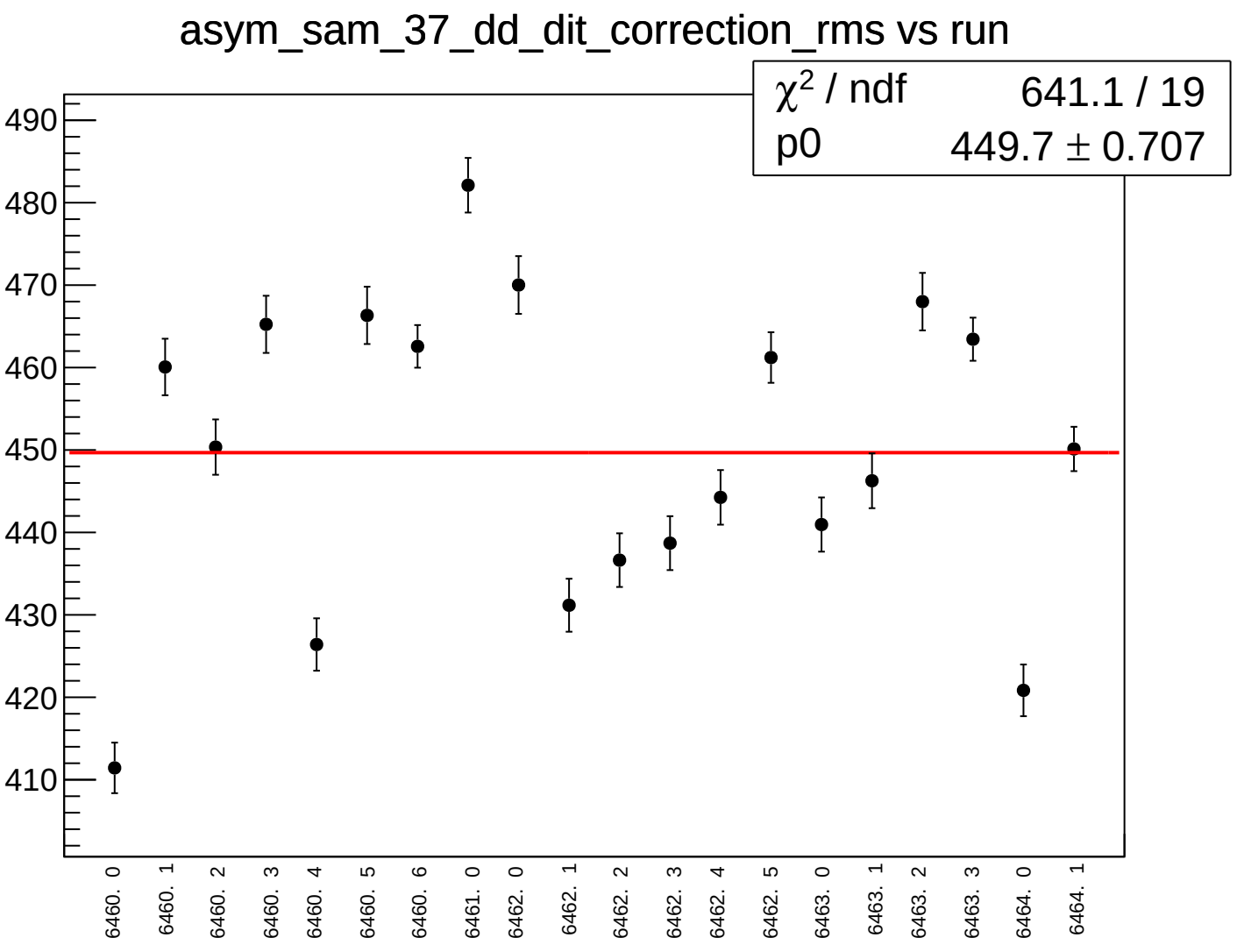

dit_asym_sam_37_dd_mean vs run
χ² / ndf 30.62 / 19
p0 135.8 ± 130.5
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −18.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 20
Mean −0.01532
Std Dev 1.237
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 2680 / 19
p0 58.54 ± 0.09227
70
65
60
55
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 10.3 / 19
p0 −322.2 ± 999.8
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 104.5
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.008673
Std Dev 0.7177
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 641.1 / 19
p0 449.7 ± 0.707
490
480
470
460
450
440
430
420
410
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
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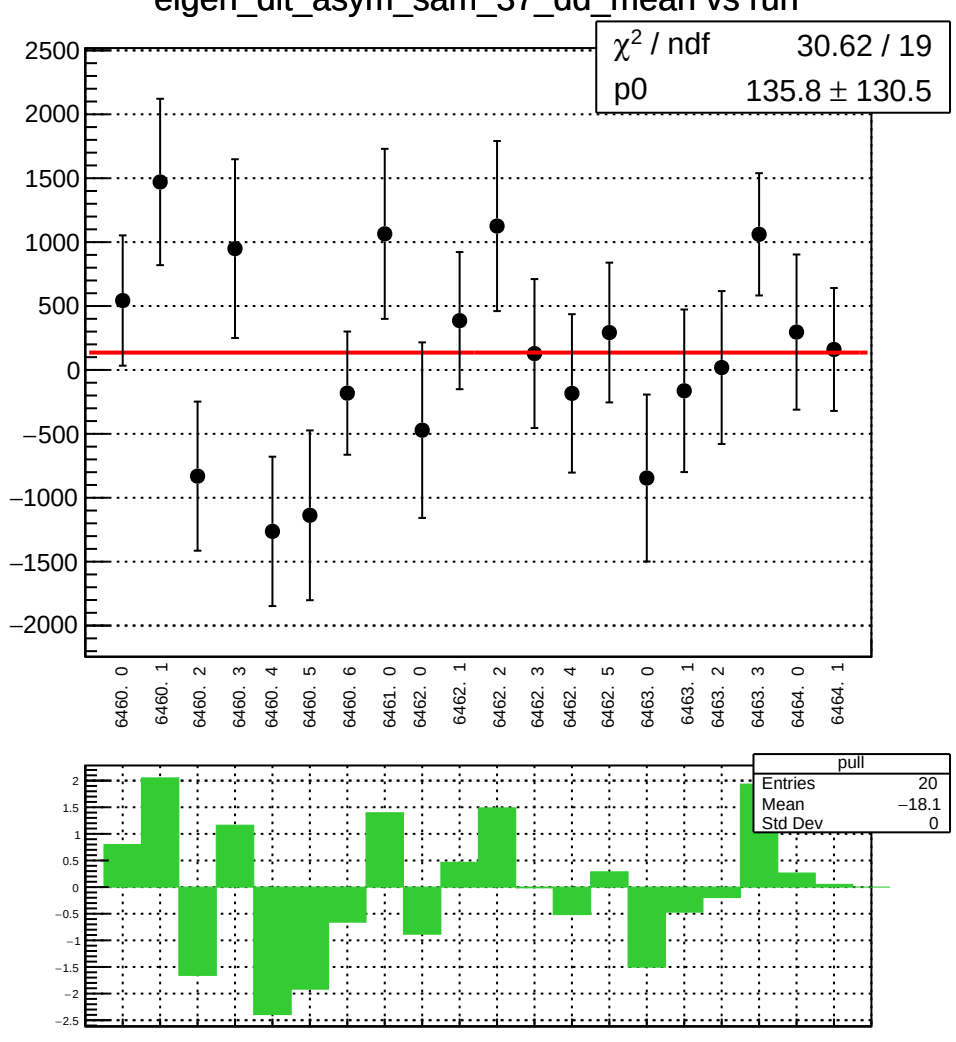
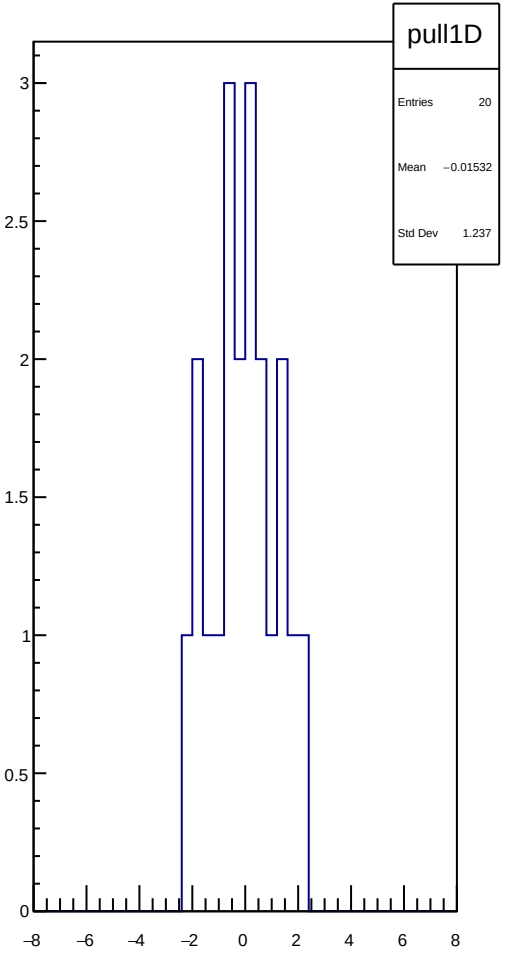
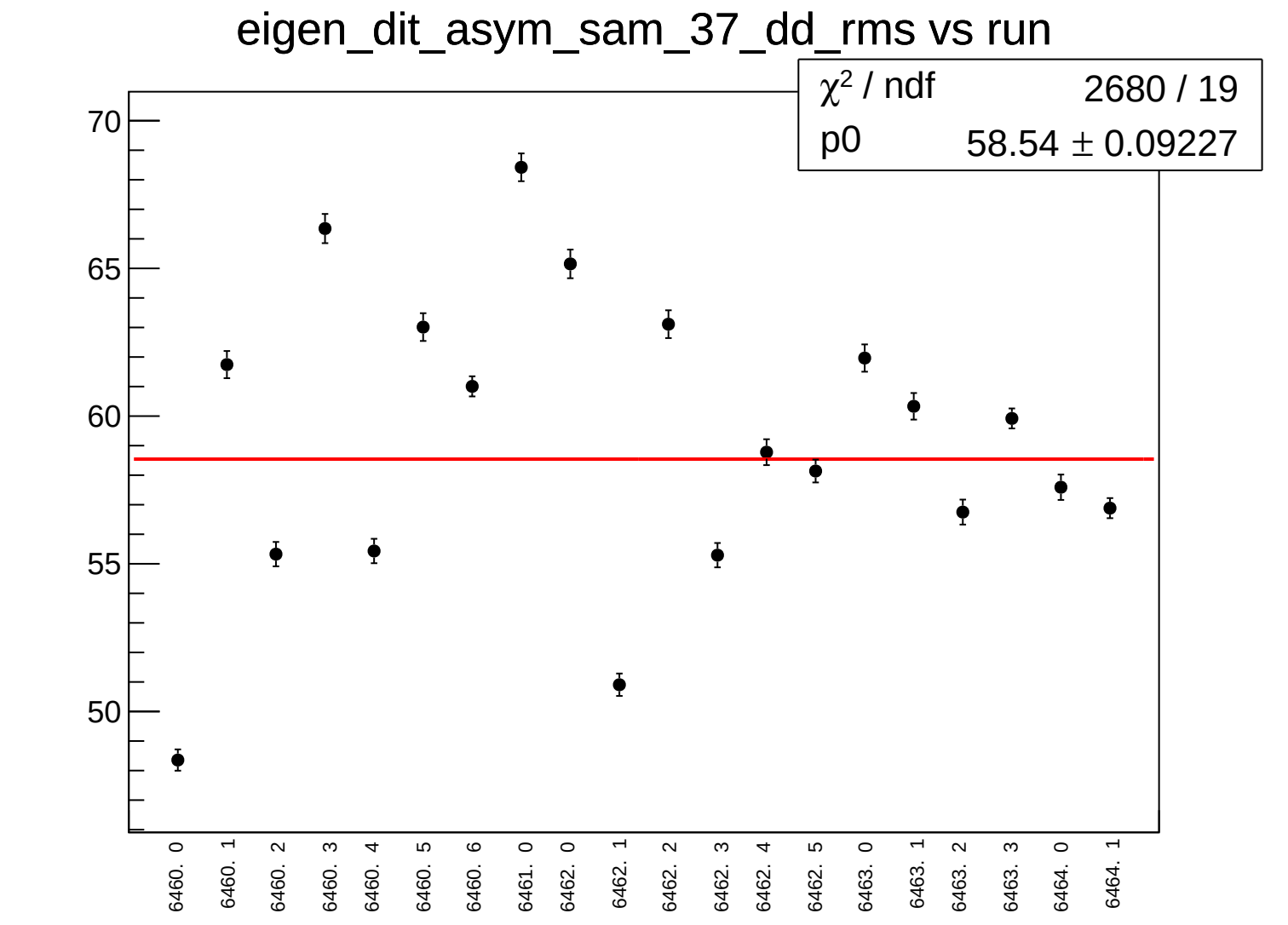
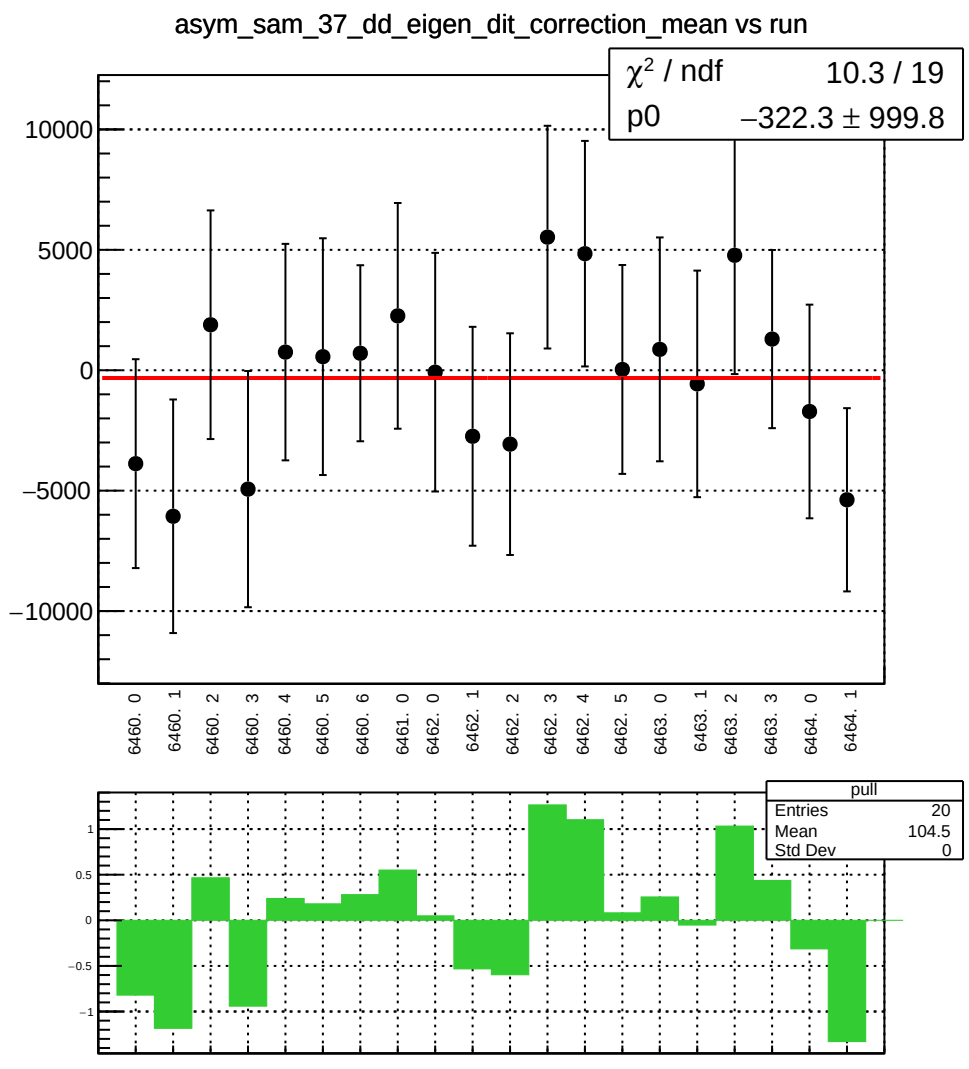
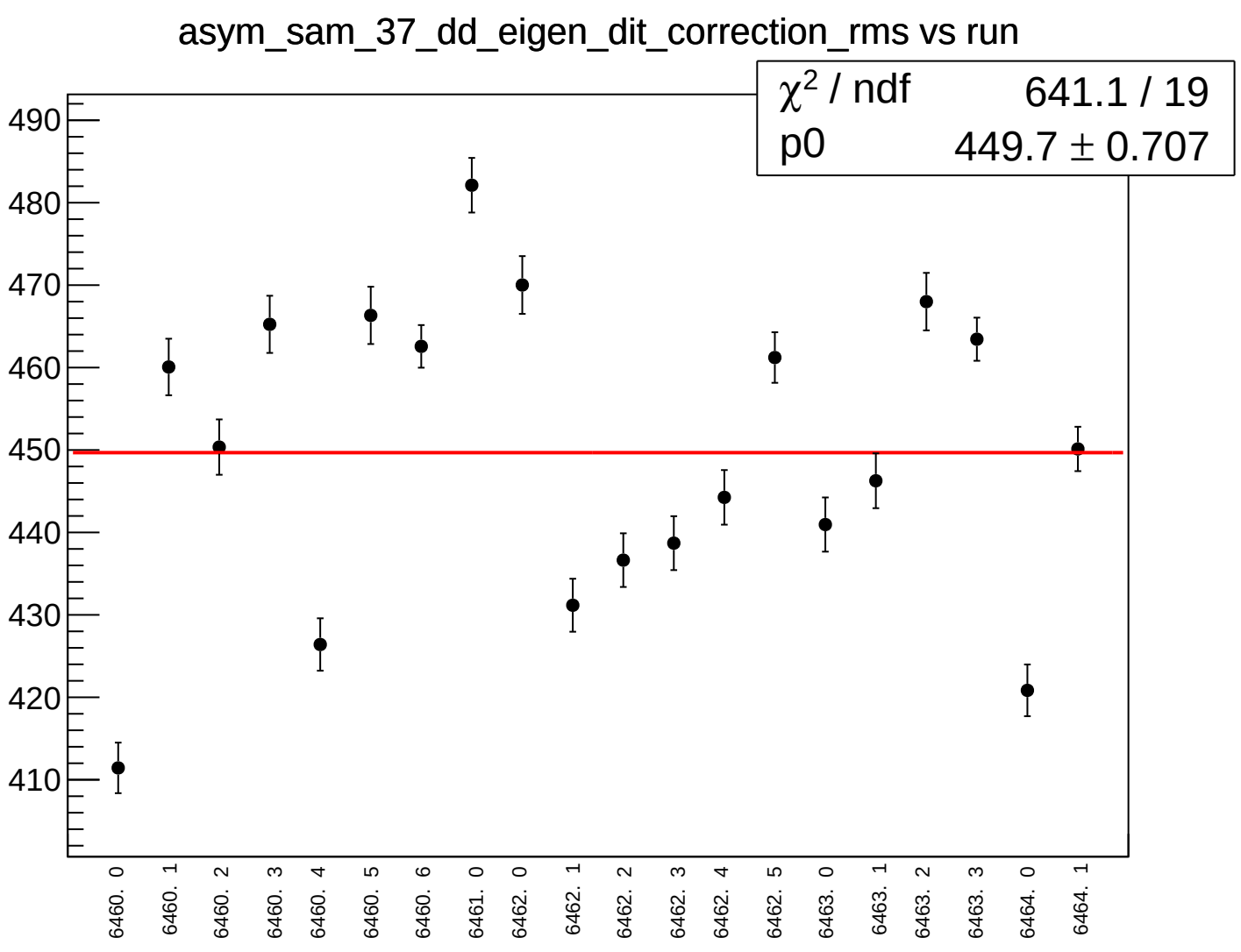
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

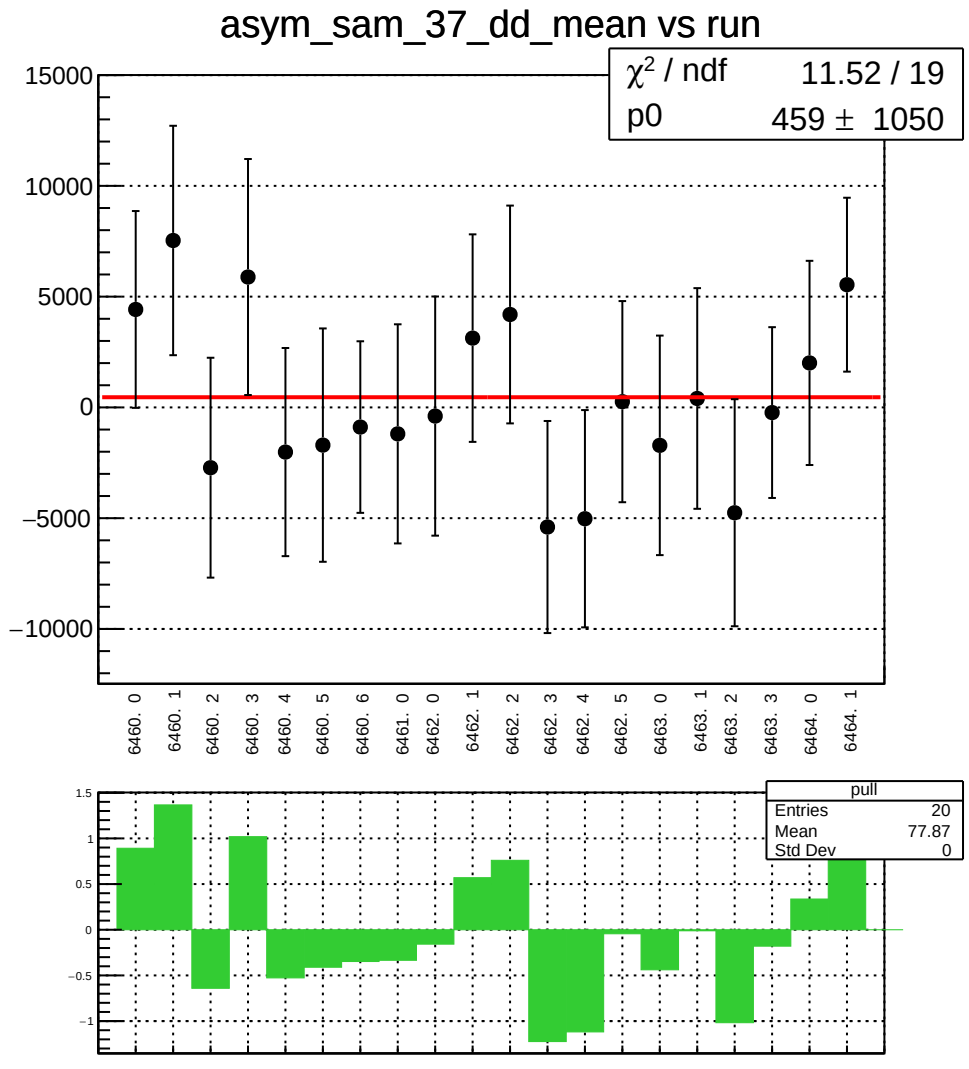

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 30.62 / 19
p0 135.8 ± 130.5
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −18.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

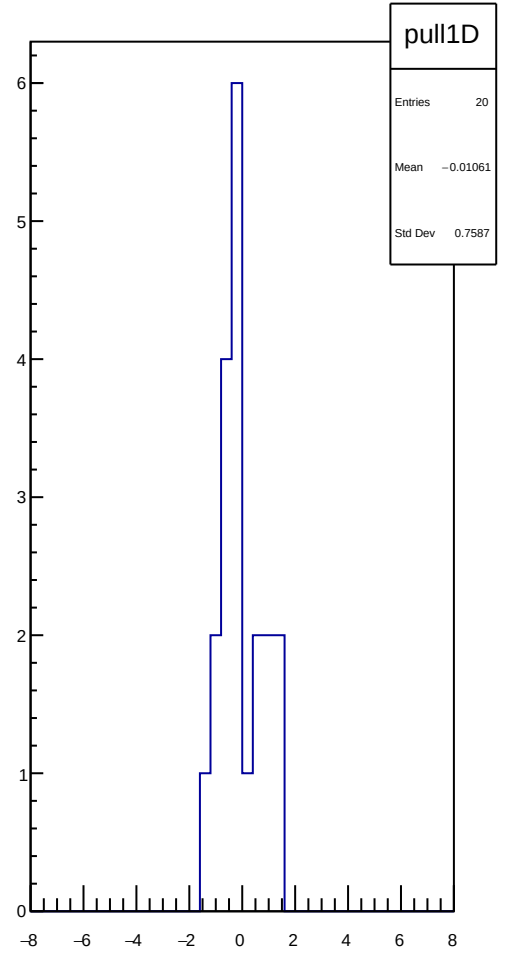

pull1D
Entries 20
Mean −0.01532
Std Dev 1.237
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2680 / 19
p0 58.54 ± 0.09227
70
65
60
55
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 10.3 / 19
p0 −322.3 ± 999.8
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 104.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.008673
Std Dev 0.7177
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 641.1 / 19
p0 449.7 ± 0.707
490
480
470
460
450
440
430
420
410
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_37_dd_mean vs run
χ² / ndf 11.52 / 19
p0 459 ± 1050
15000
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 77.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean −0.01061
Std Dev 0.7587
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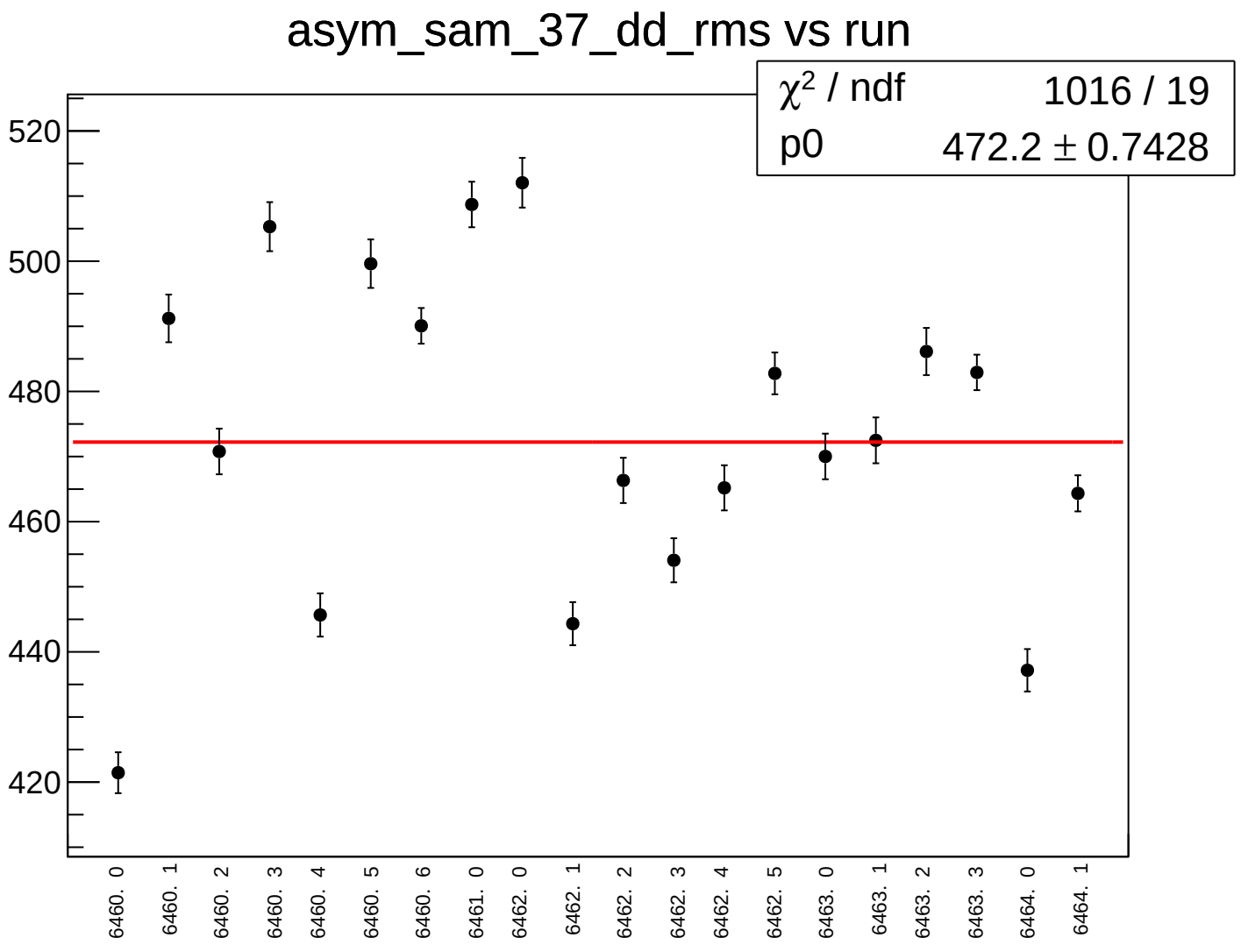
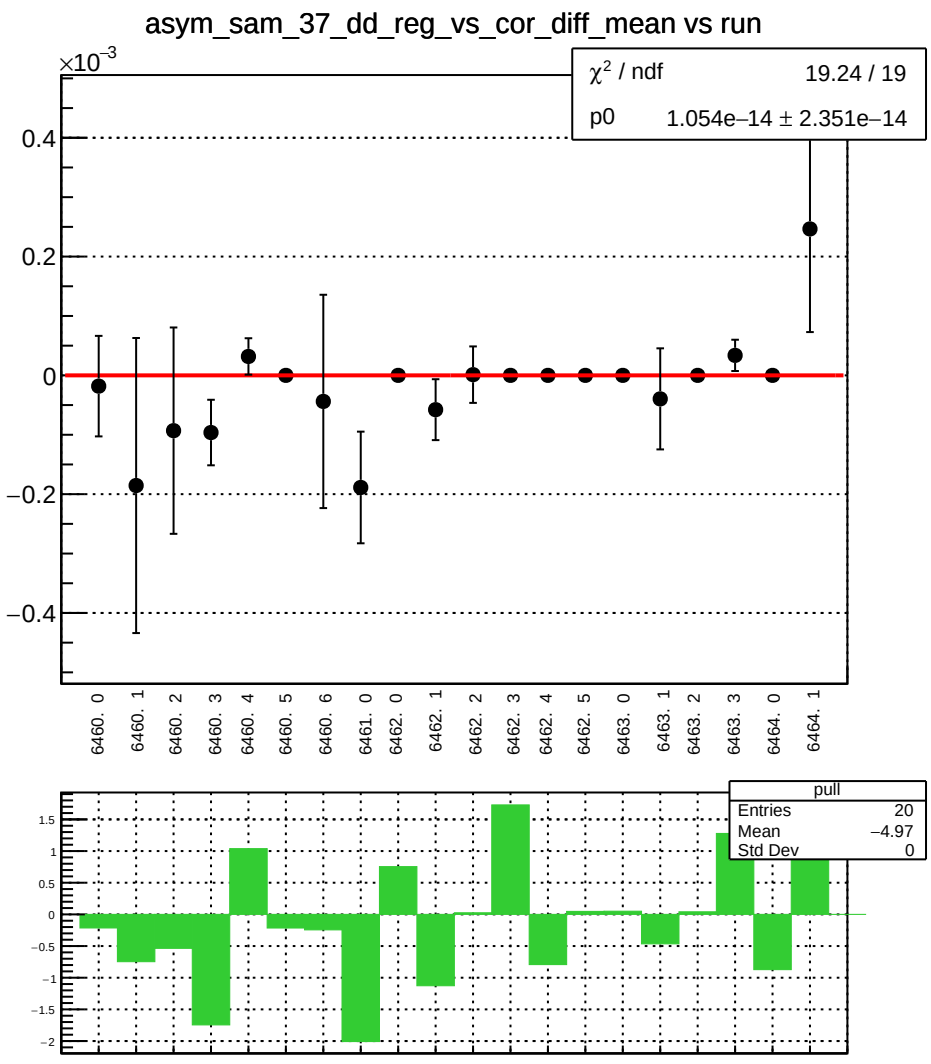
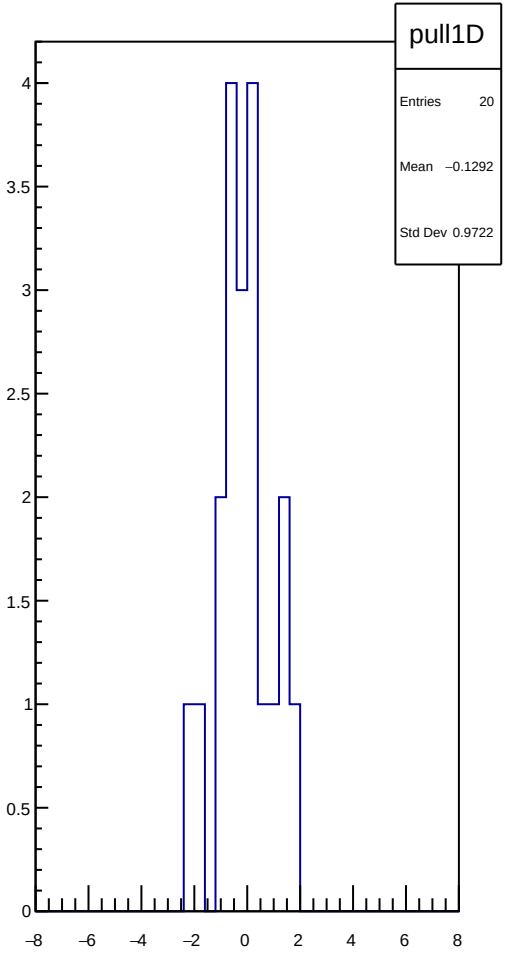
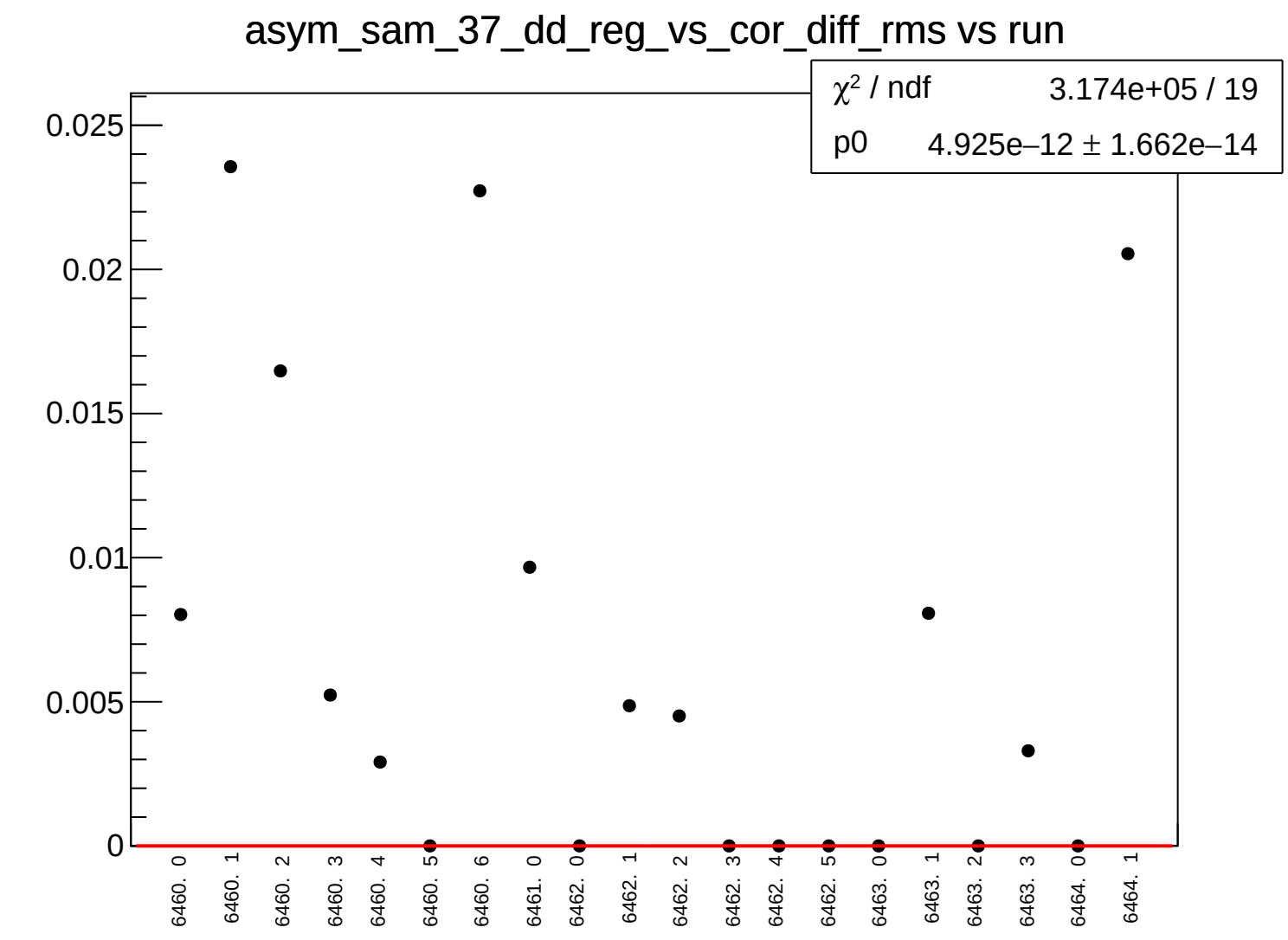
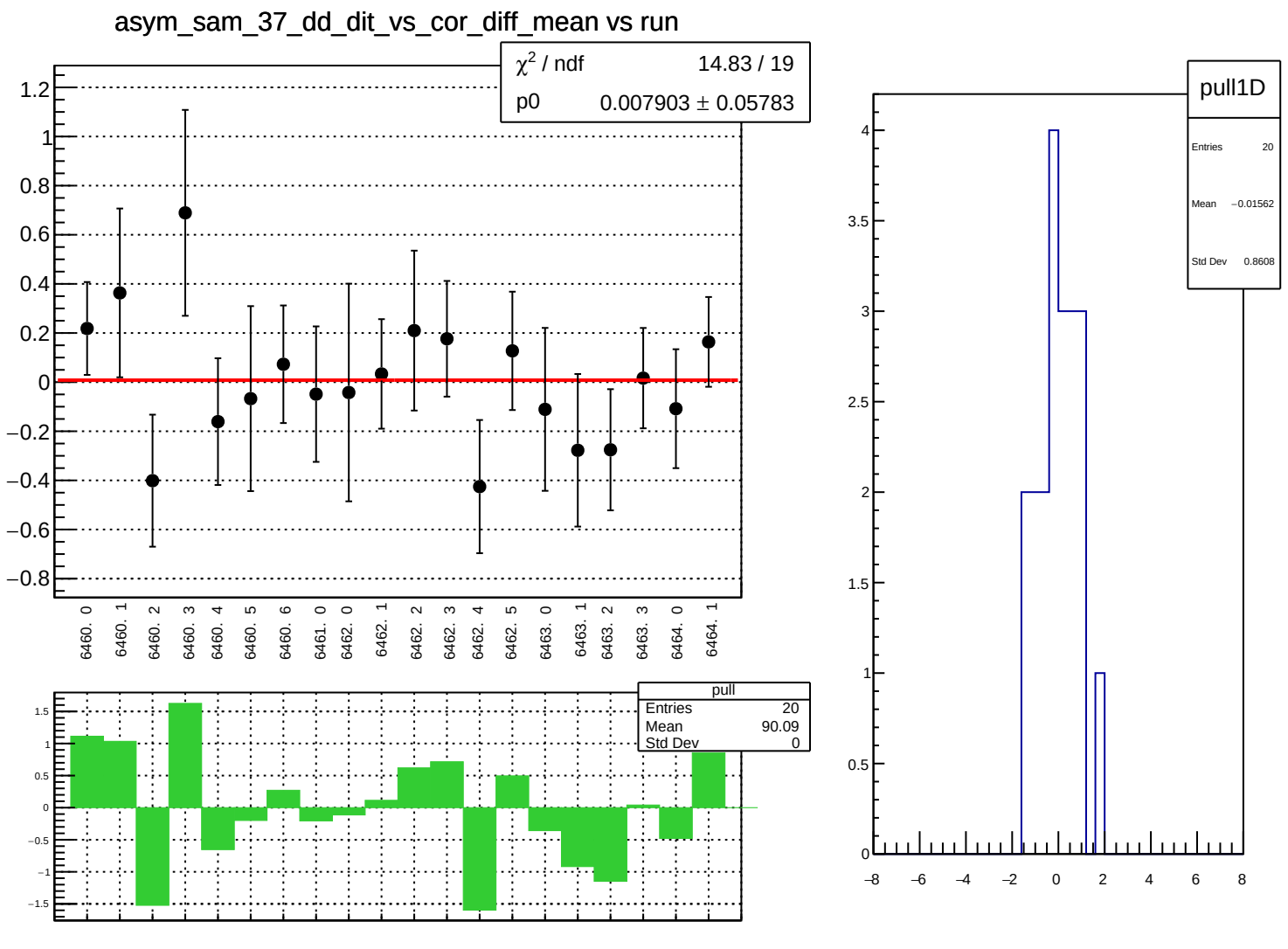
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

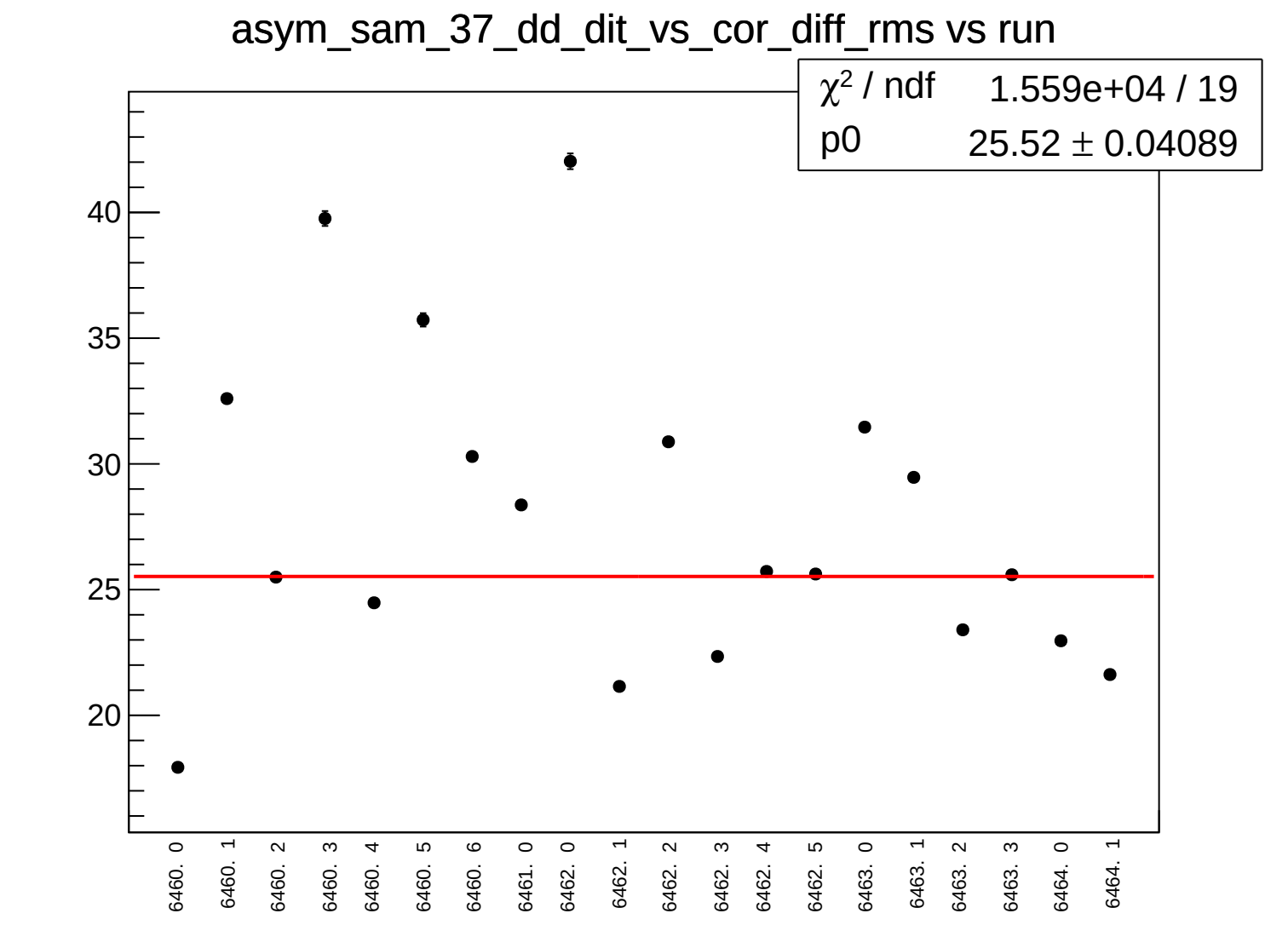

asym_sam_37_dd_rms vs run
χ² / ndf 1016 / 19
p0 472.2 ± 0.7428
520
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

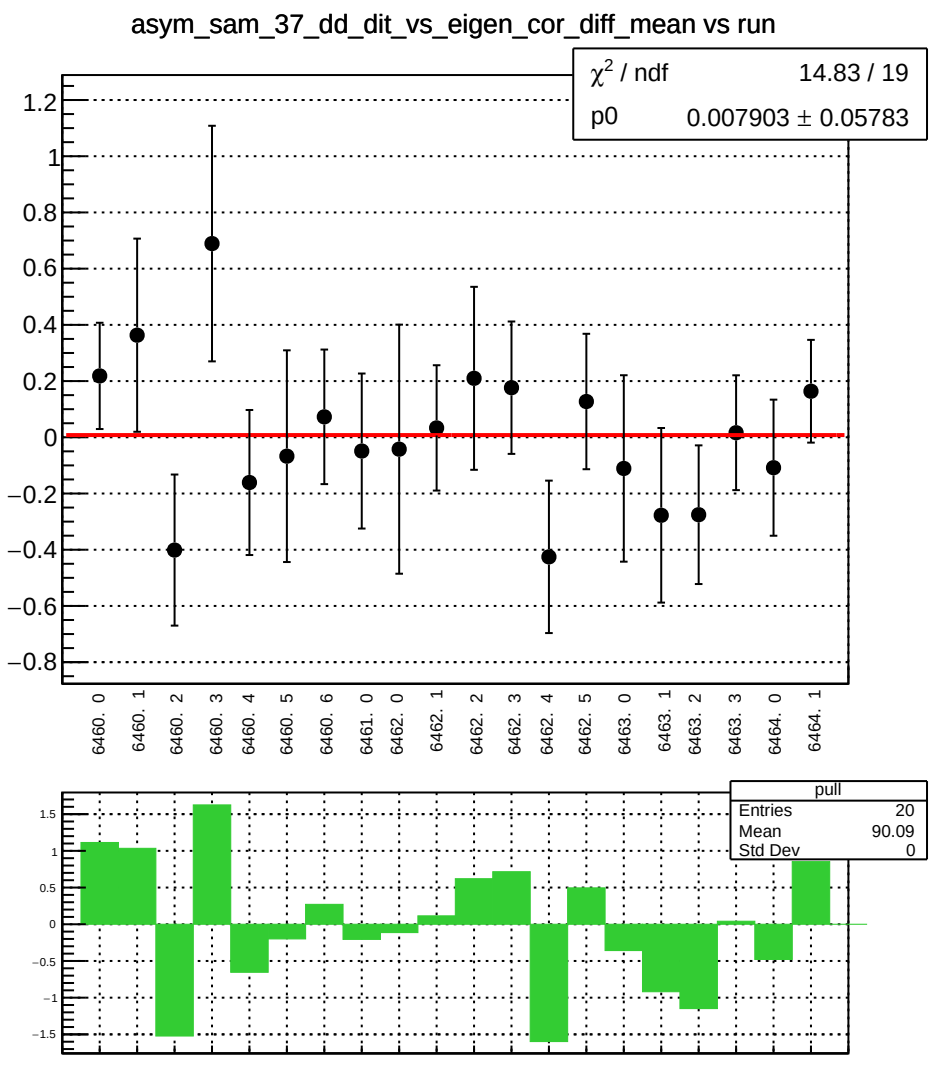

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 19.24 / 19
p0 1.054e−14 ± 2.351e−14
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

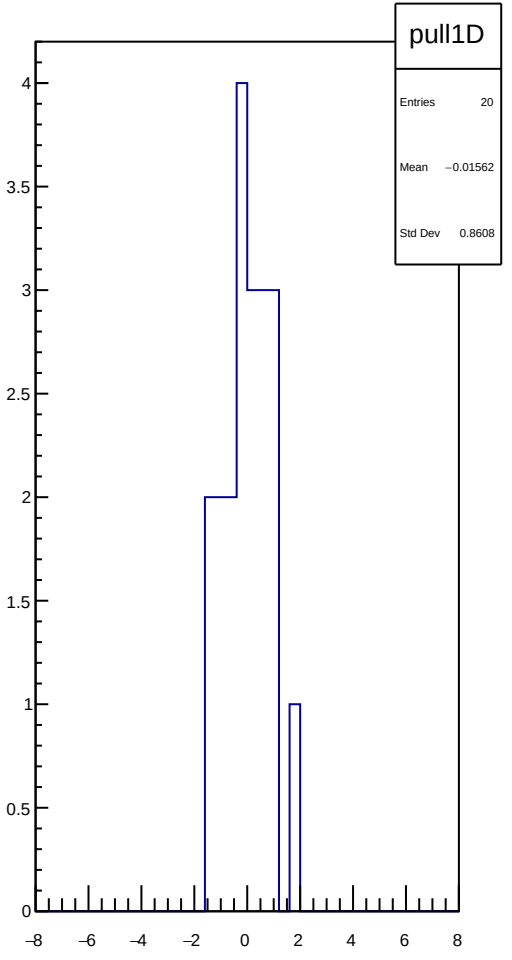

pull1D
Entries 20
Mean −0.1292
Std Dev 0.9722
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

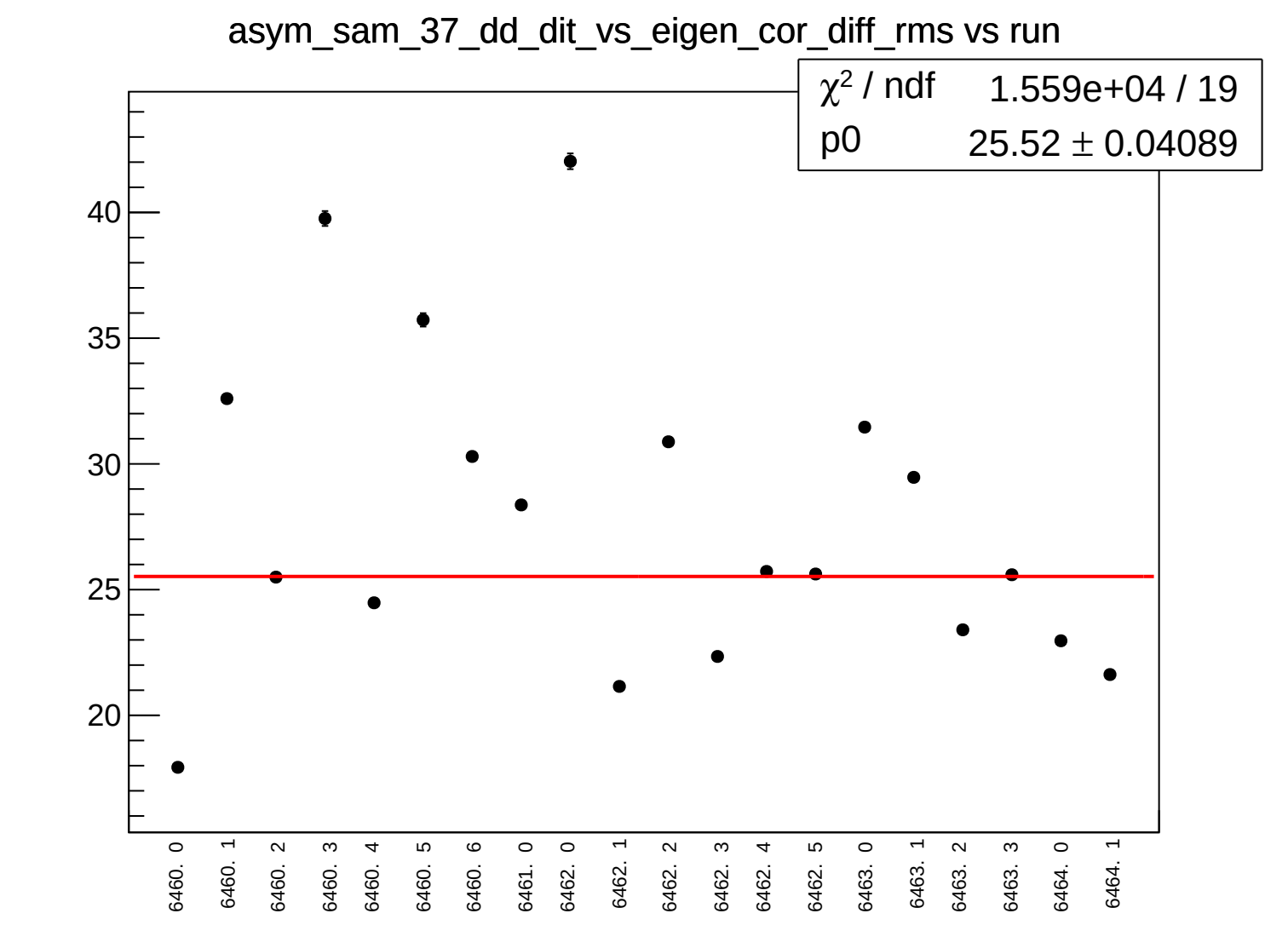

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.174e+05 / 19
p0 4.925e−12 ± 1.662e−14
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

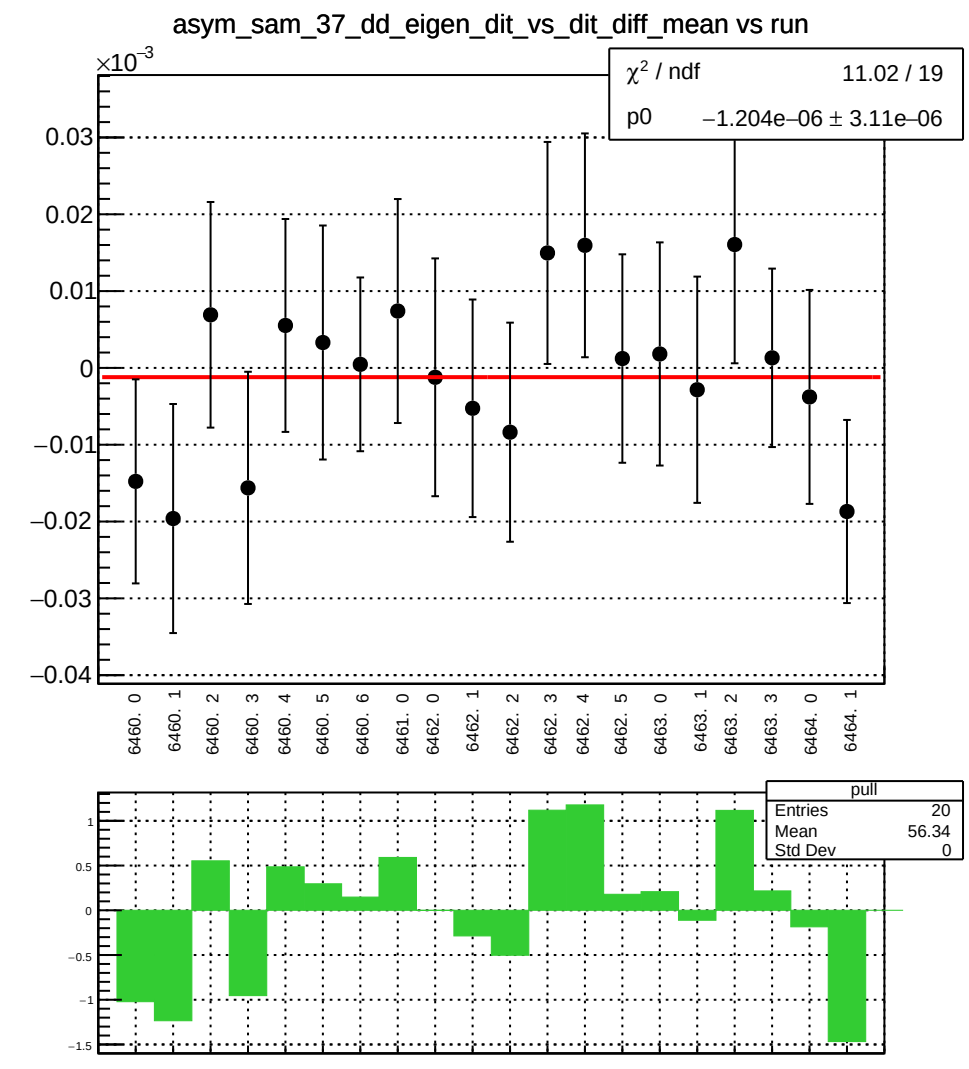

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 14.83 / 19
p0 0.007903 ± 0.05783
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 90.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01562
Std Dev 0.8608
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

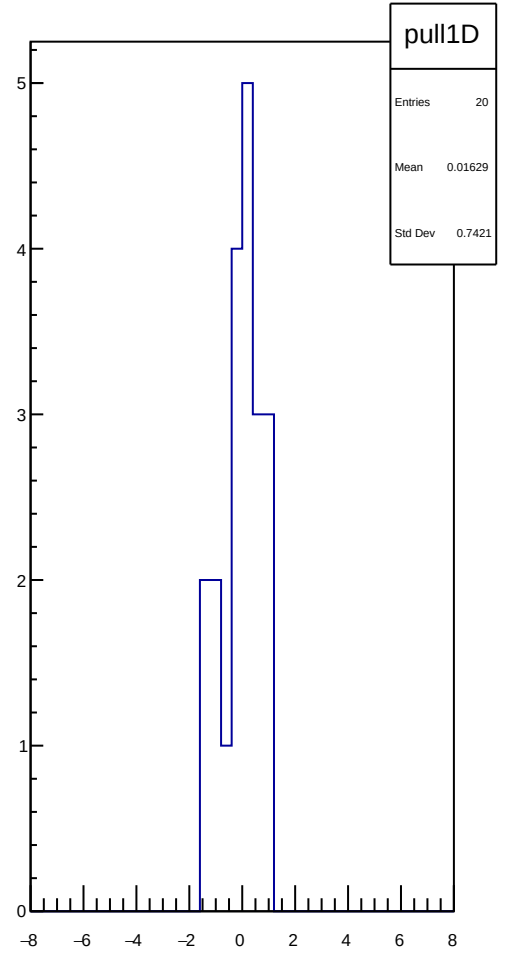

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.559e+04 / 19
p0 25.52 ± 0.04089
40
35
30
25
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

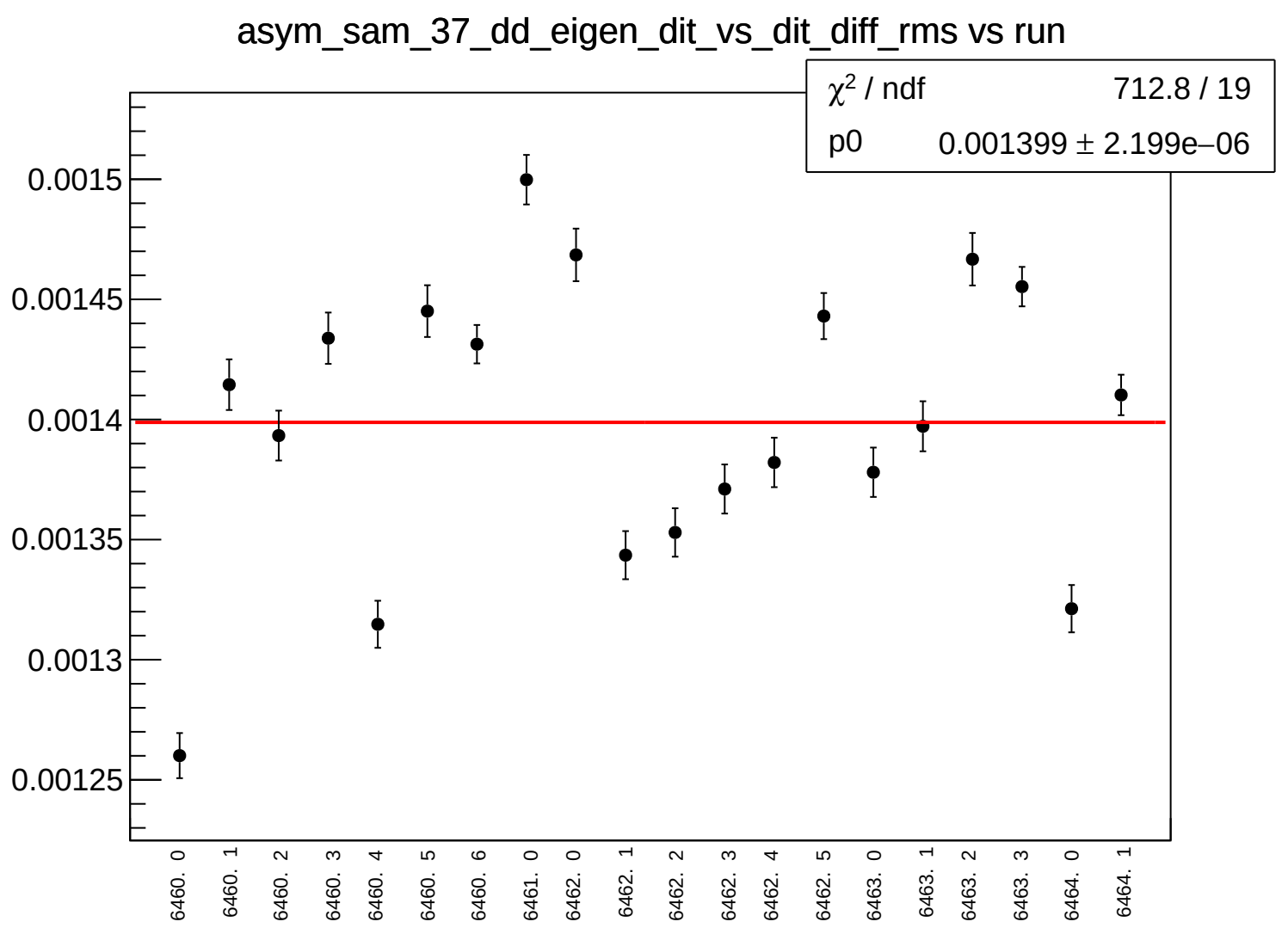

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.83 / 19
p0 0.007903 ± 0.05783
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 90.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

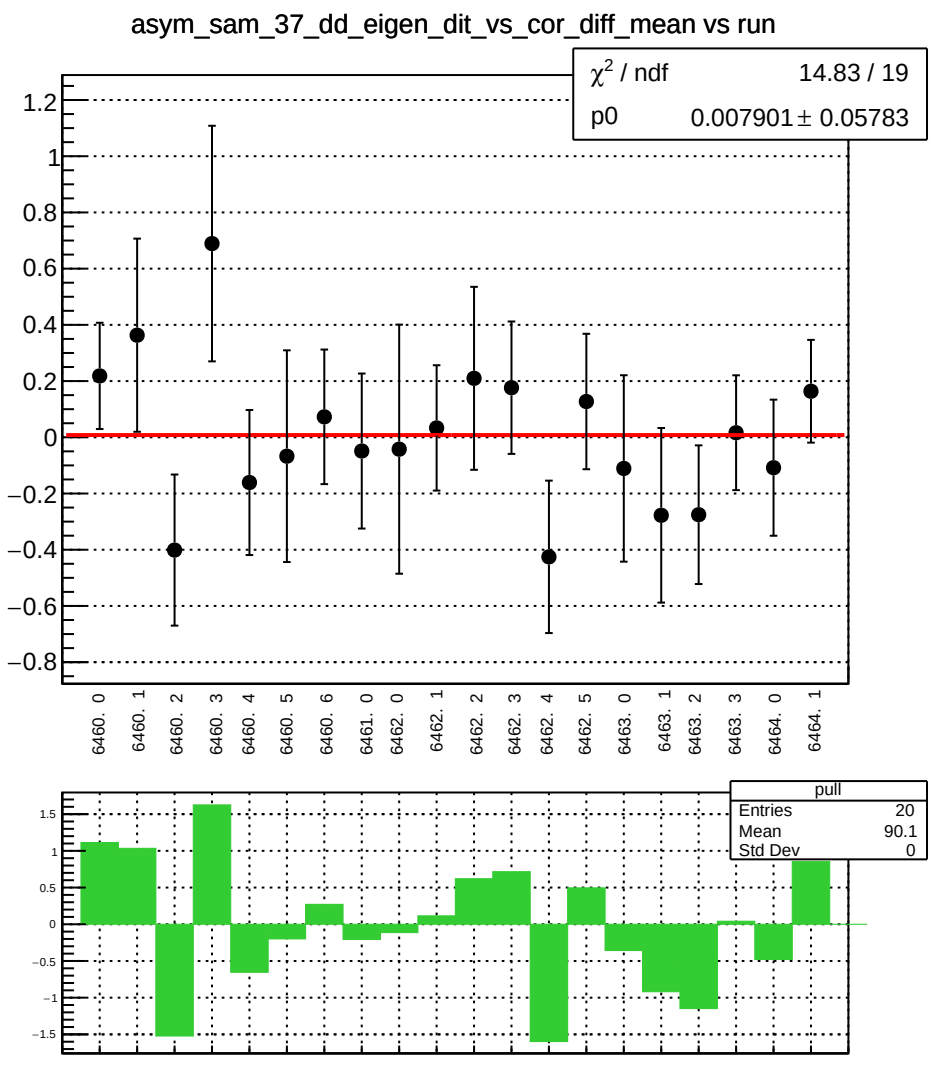

pull1D
Entries 20
Mean −0.01562
Std Dev 0.8608
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

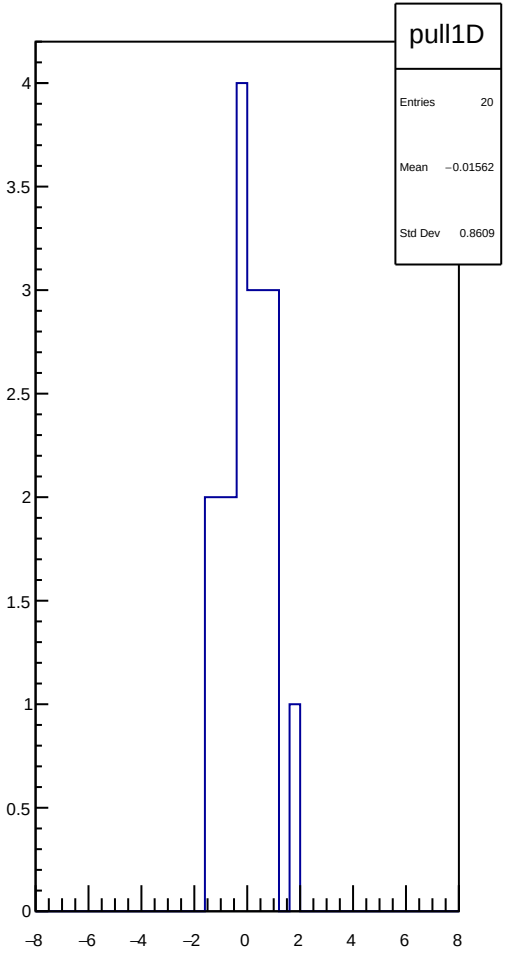

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.559e+04 / 19
p0 25.52 ± 0.04089
40
35
30
25
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

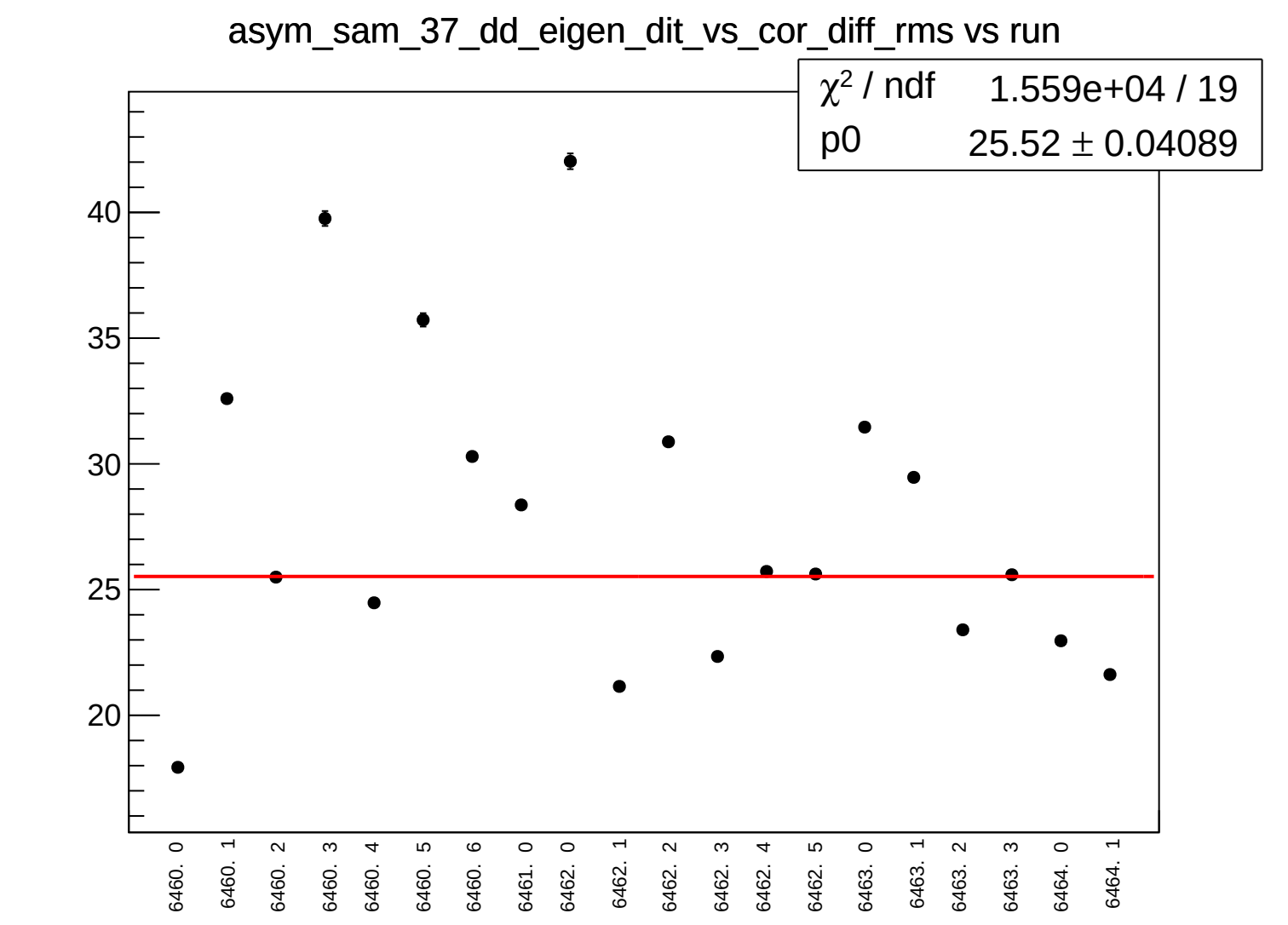

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.02 / 19
p0 −1.204e−06 ± 3.11e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.34
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

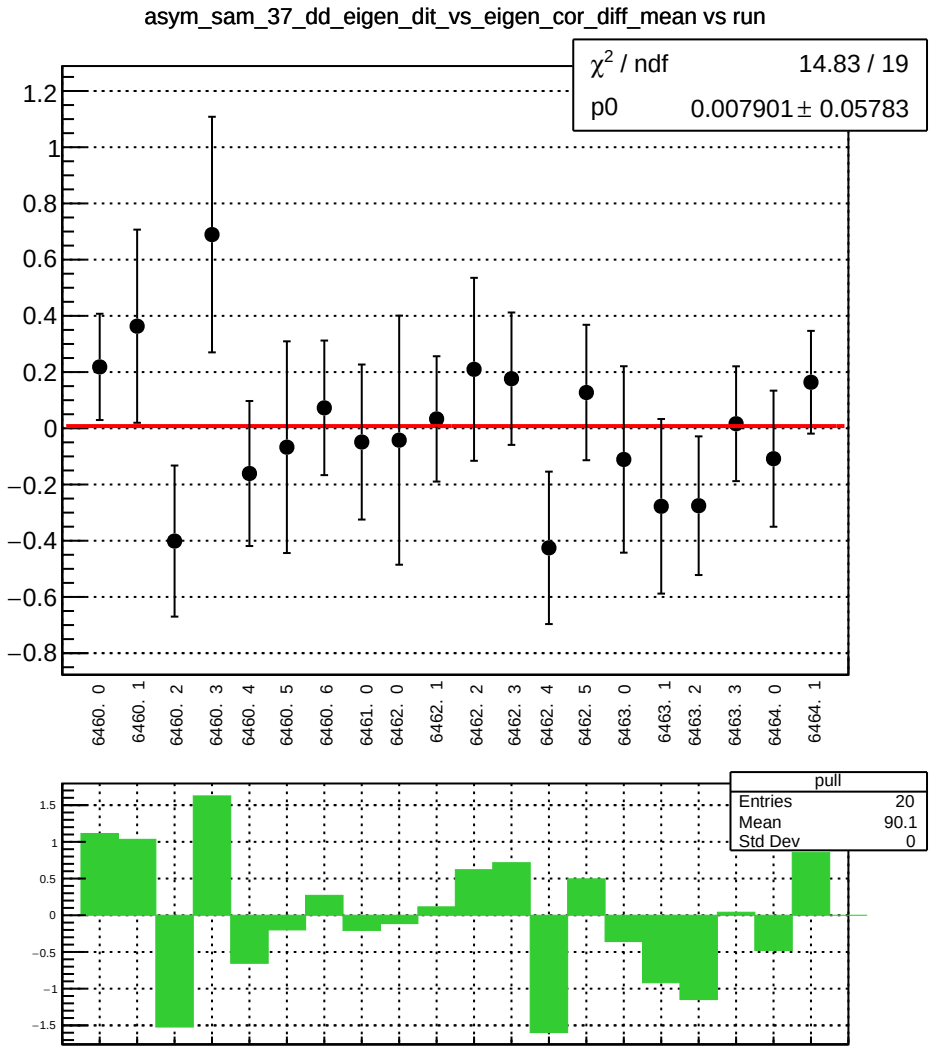

pull1D
Entries 20
Mean 0.01629
Std Dev 0.7421
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

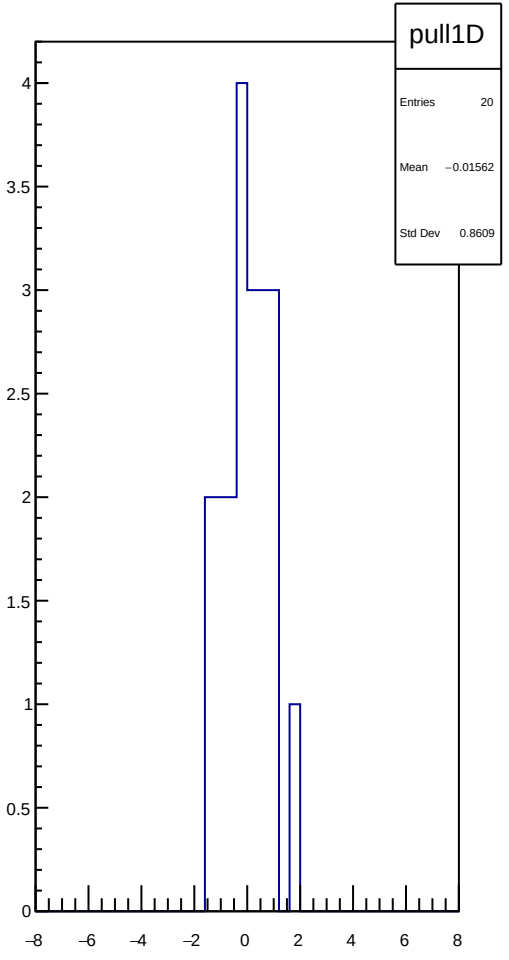

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 712.8 / 19
p0 0.001399 ± 2.199e−06
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

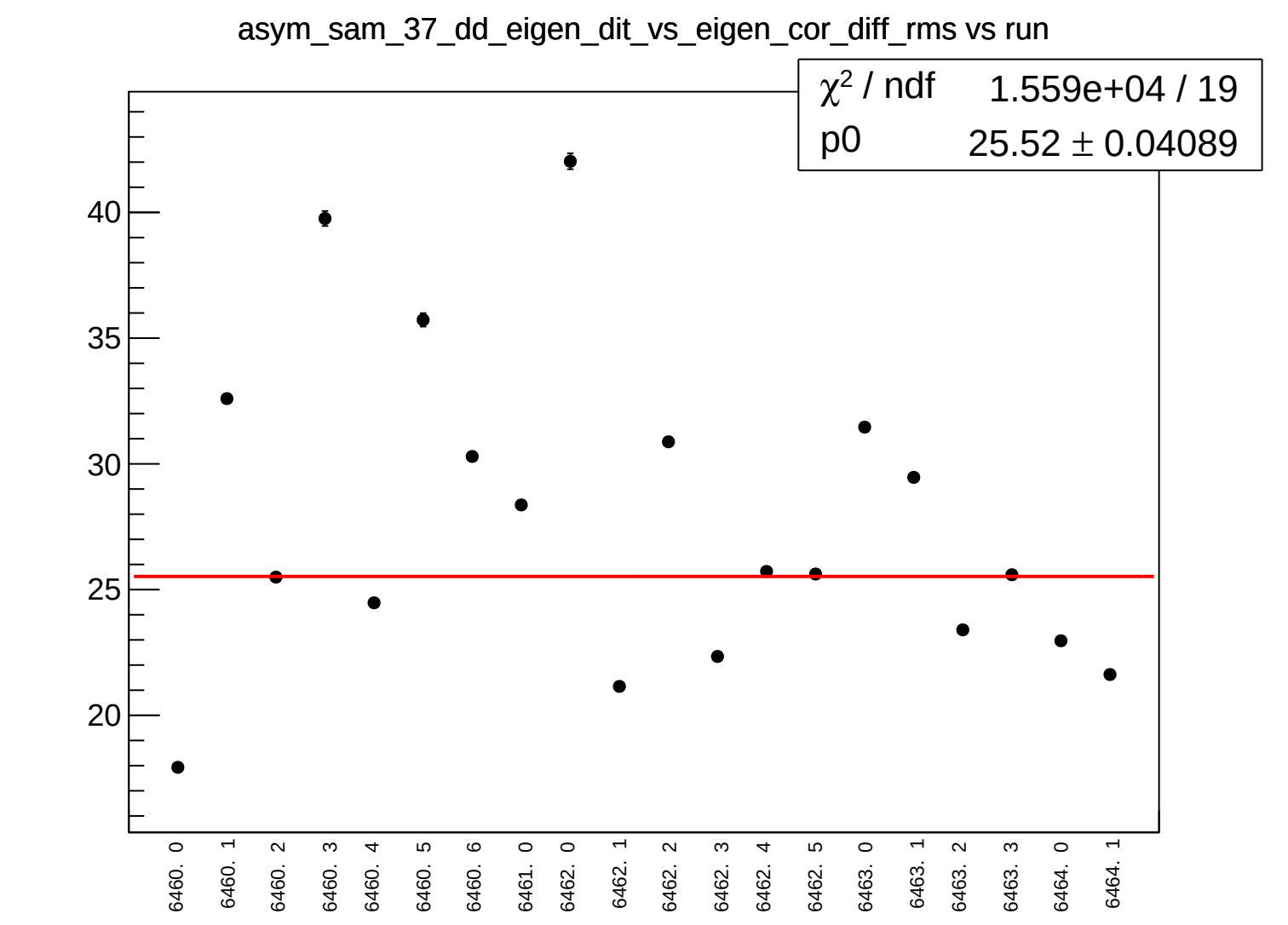

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 14.83 / 19
p0 0.007901 ± 0.05783
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 90.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

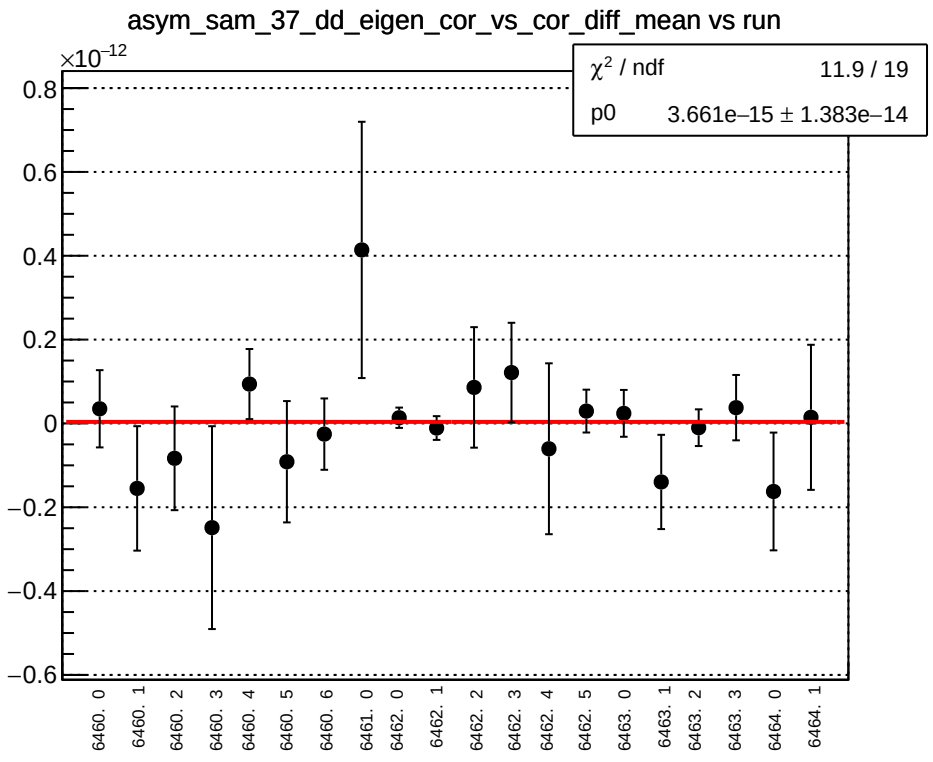

pull1D
Entries 20
Mean −0.01562
Std Dev 0.8609
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

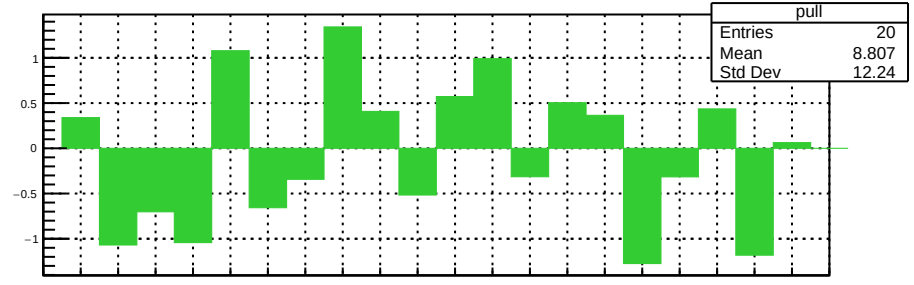

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.559e+04 / 19
p0 25.52 ± 0.04089
40
35
30
25
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

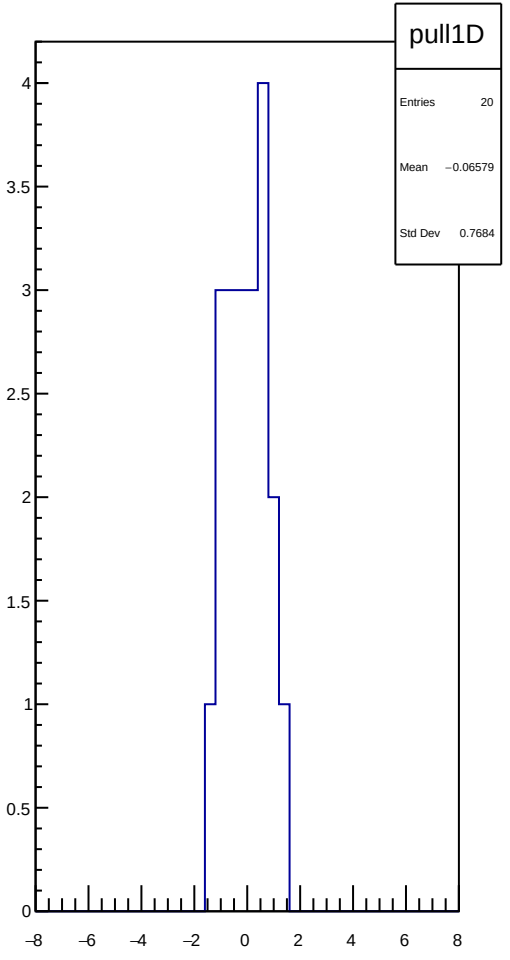

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.83 / 19
p0 0.007901 ± 0.05783
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 90.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

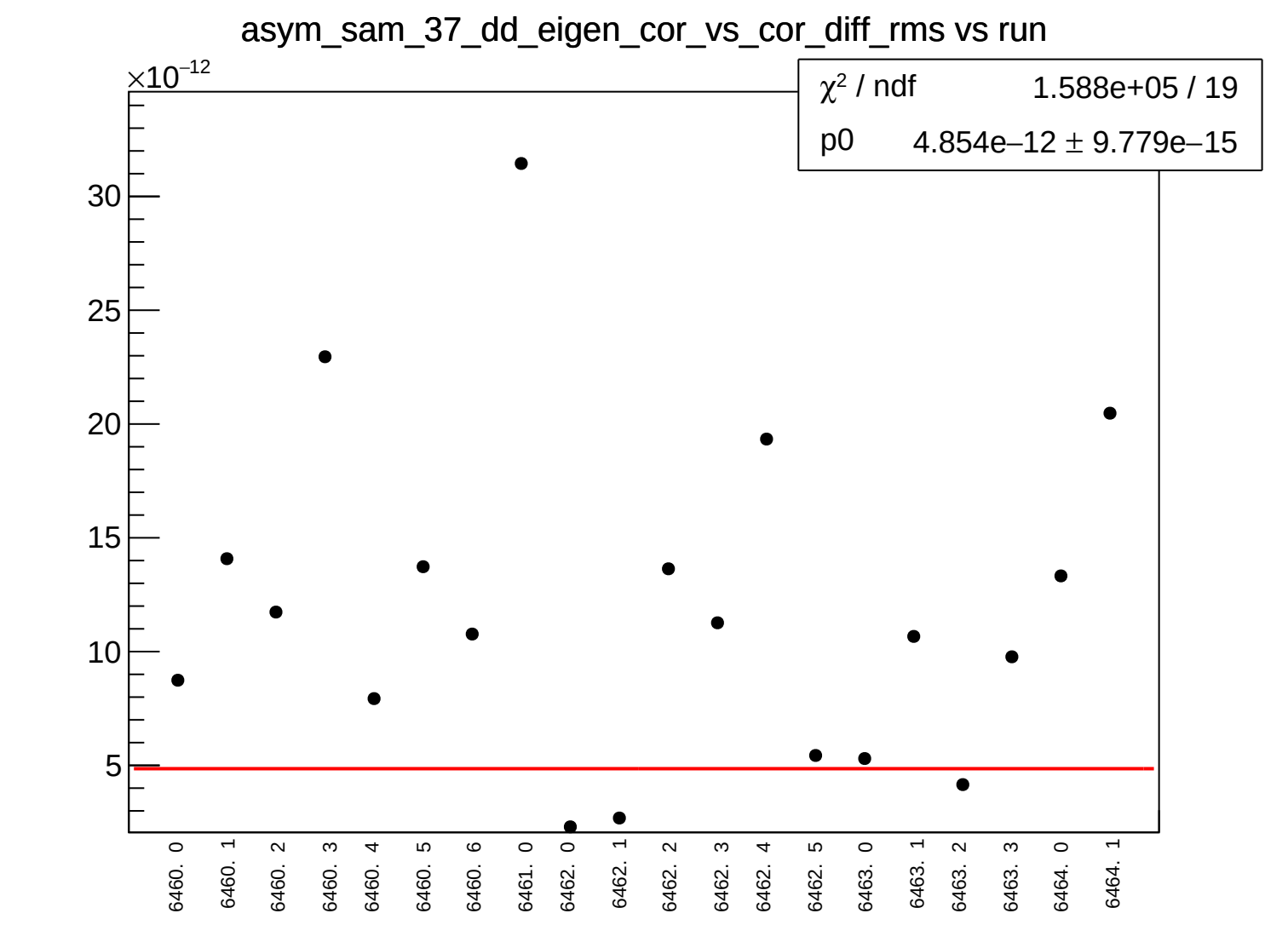

pull1D
Entries 20
Mean −0.01562
Std Dev 0.8609
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

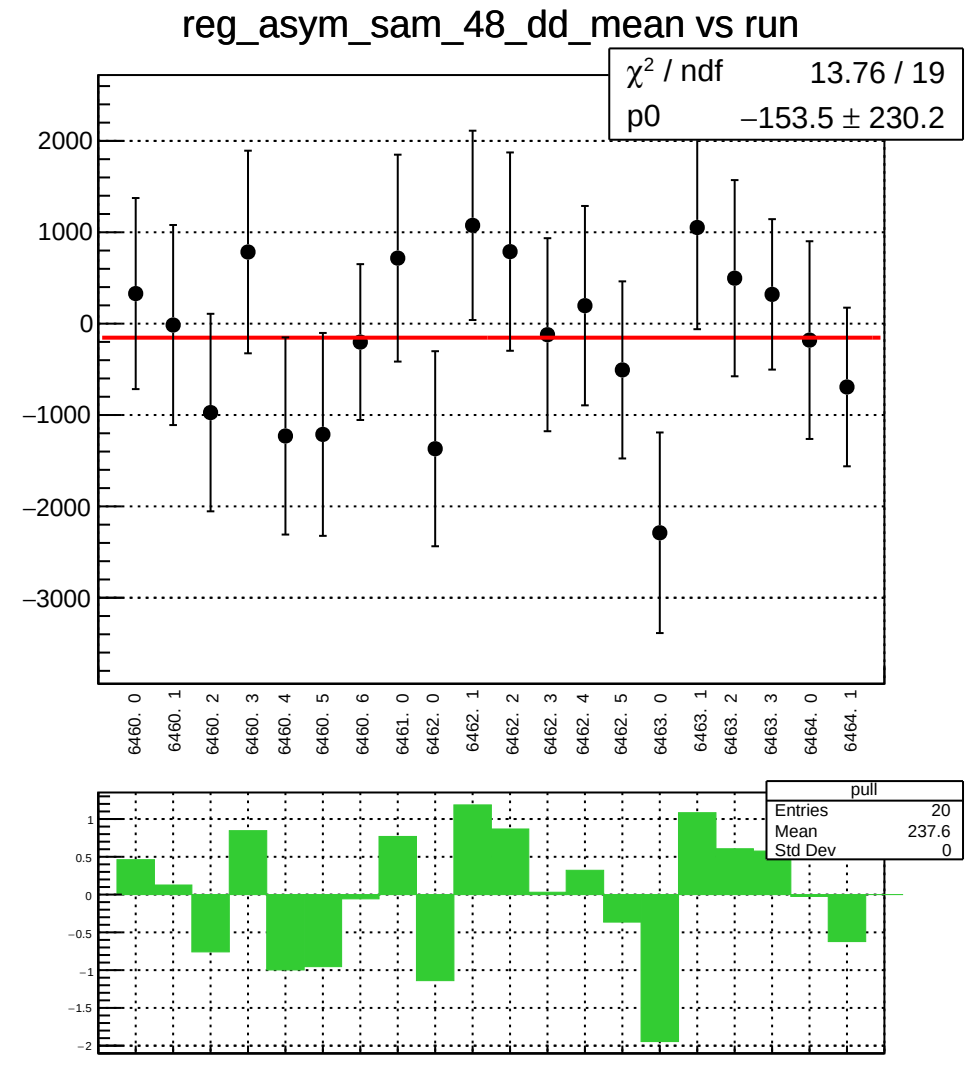

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.559e+04 / 19
p0 25.52 ± 0.04089
40
35
30
25
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

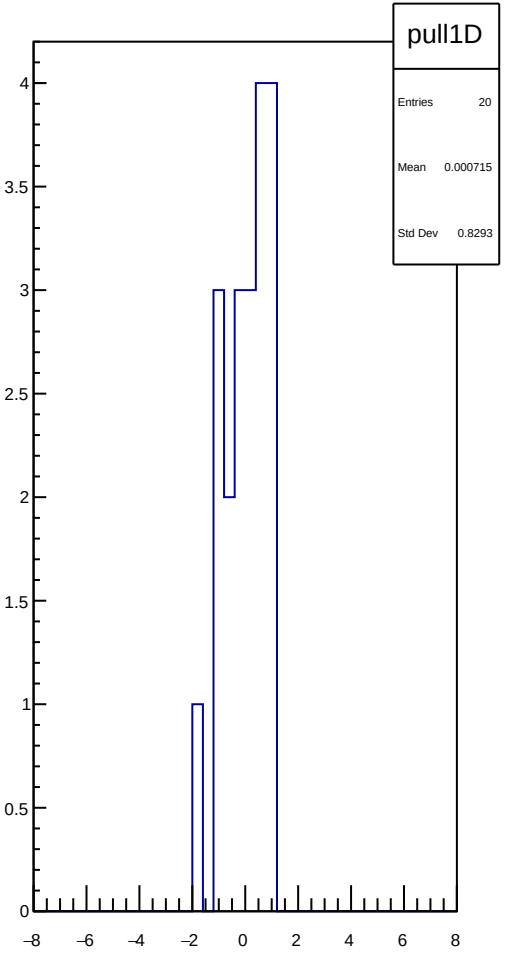

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 11.9 / 19
p0 3.661e−15 ± 1.383e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

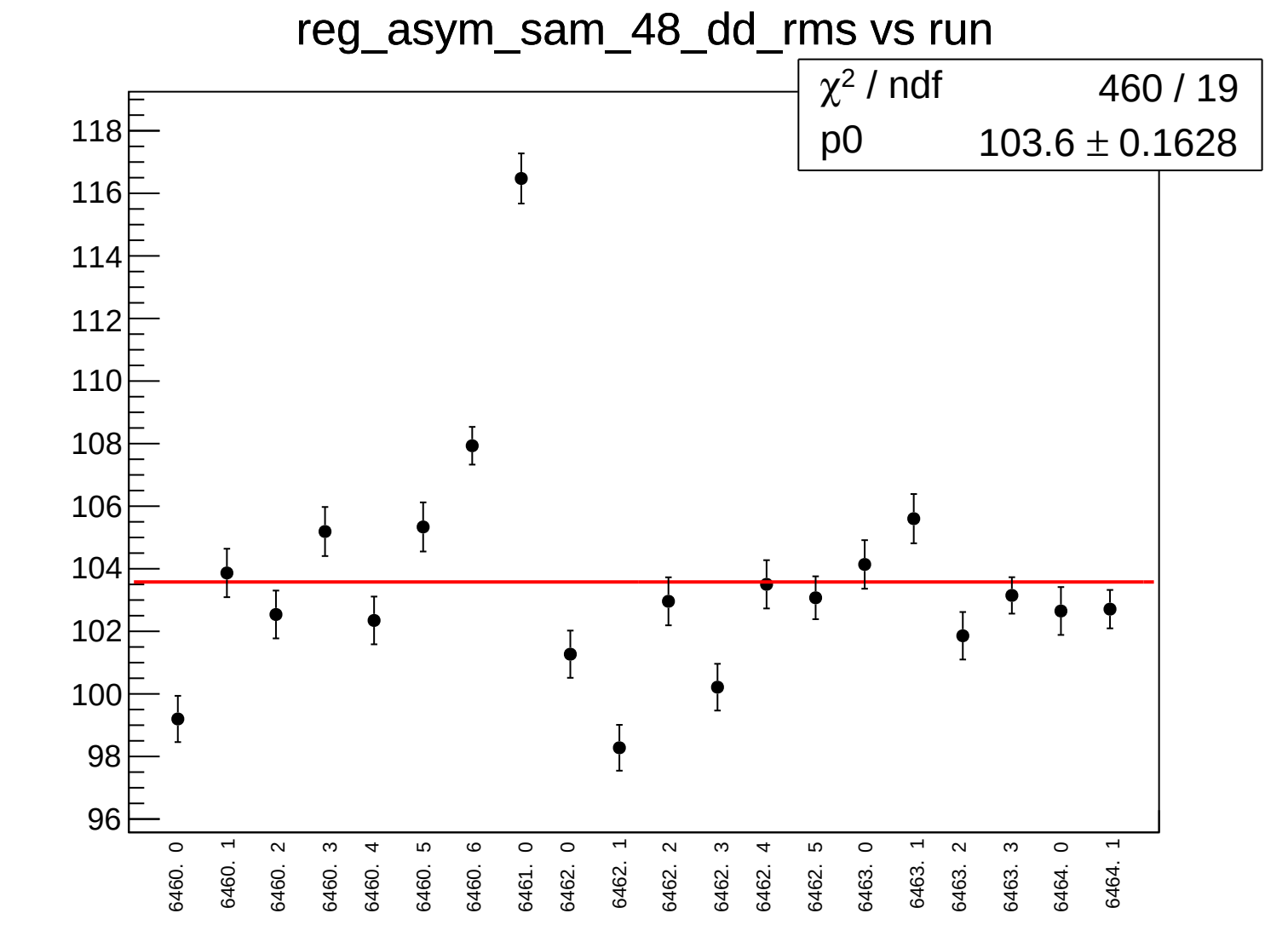

pull
Entries 20
Mean 8.807
Std Dev 12.24
1
0.5
0
−0.5
−1

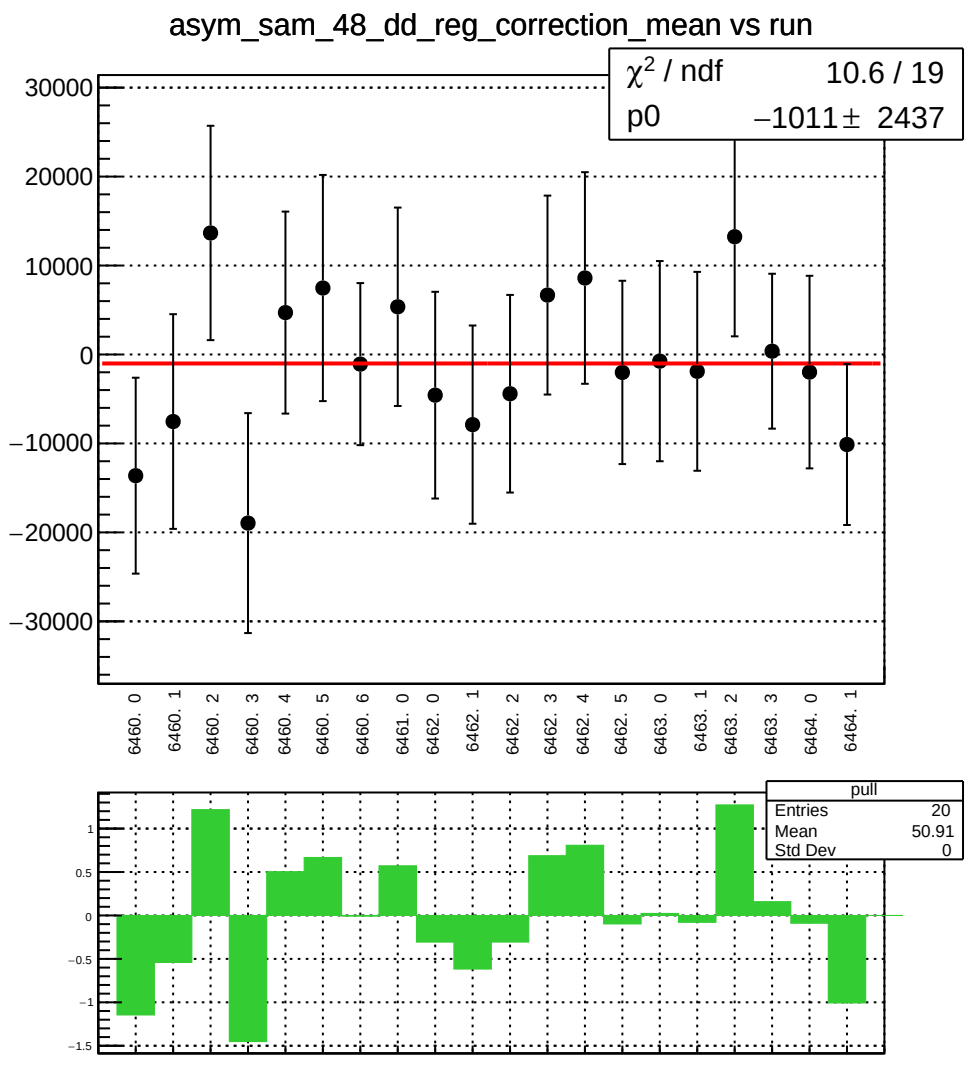

pull1D
Entries 20
Mean −0.06579
Std Dev 0.7684
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

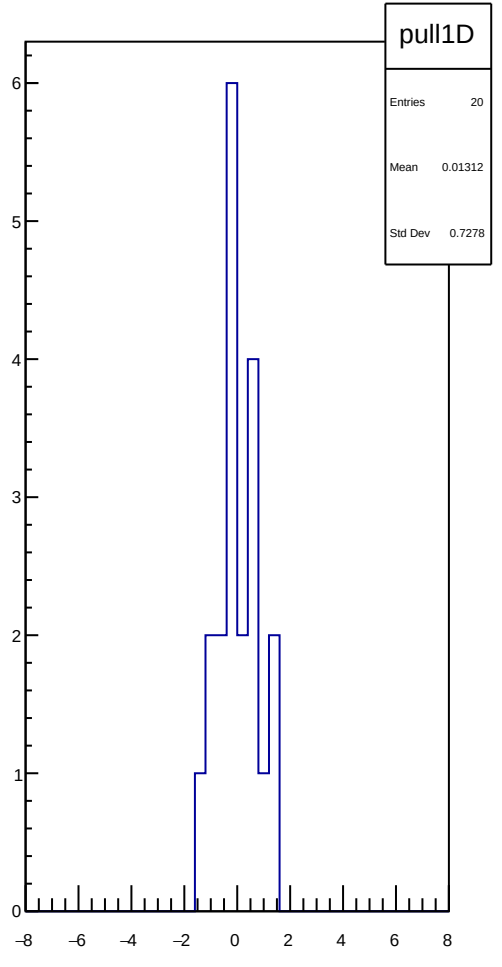

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.588e+05 / 19
p0 4.854e−12 ± 9.779e−15
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

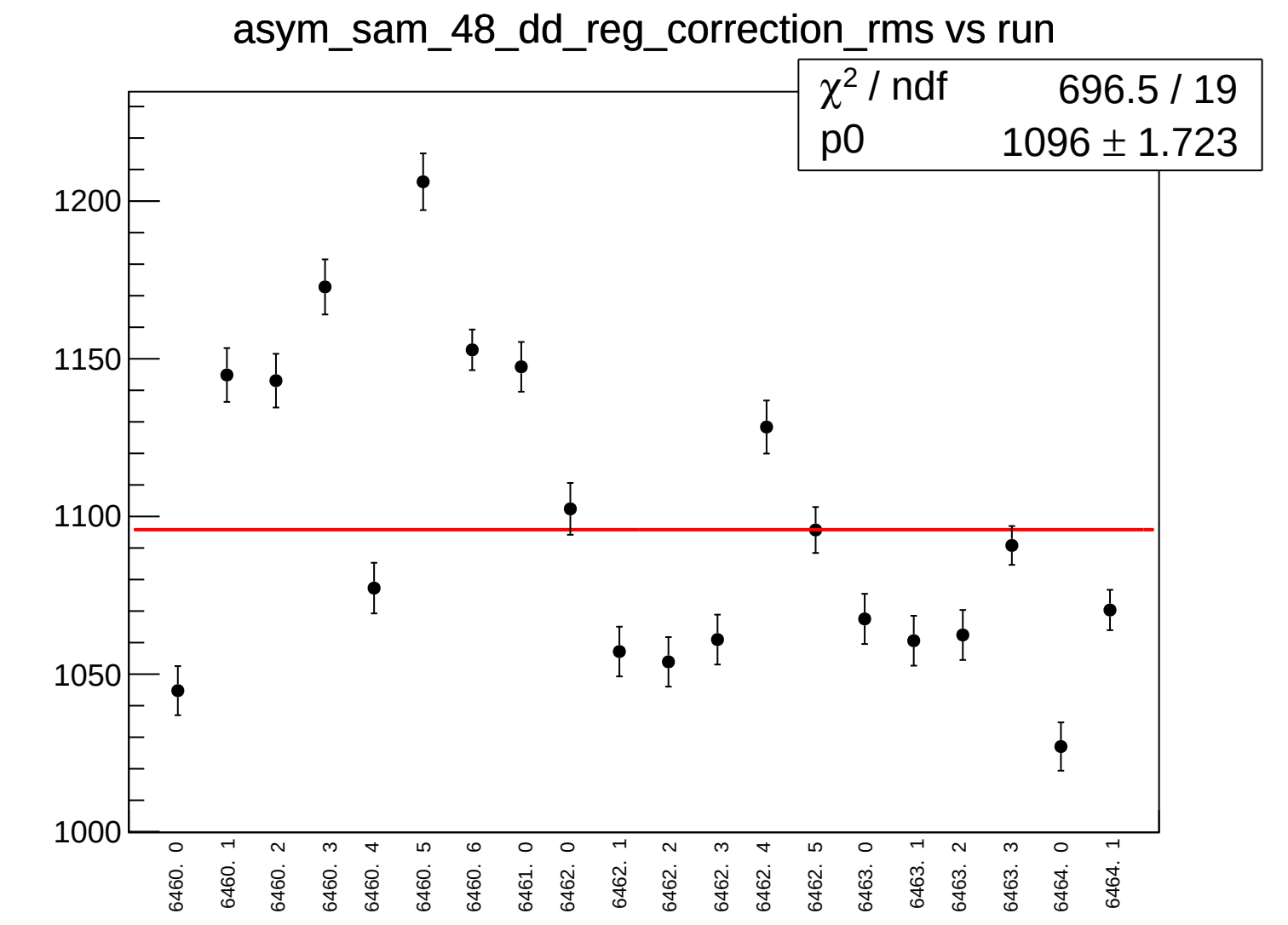

reg_asym_sam_48_dd_mean vs run
χ² / ndf 13.76 / 19
p0 −153.5 ± 230.2
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 237.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

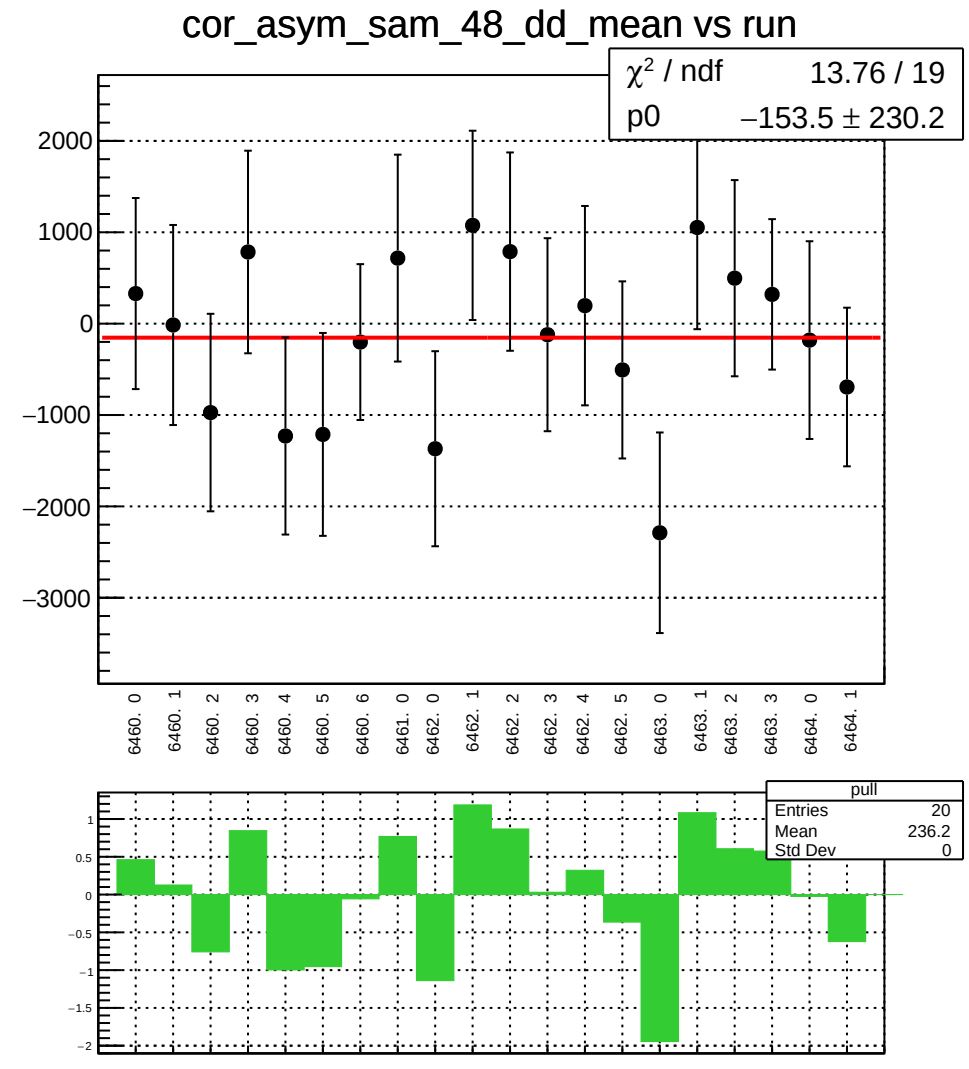

pull1D
Entries 20
Mean 0.000715
Std Dev 0.8293
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

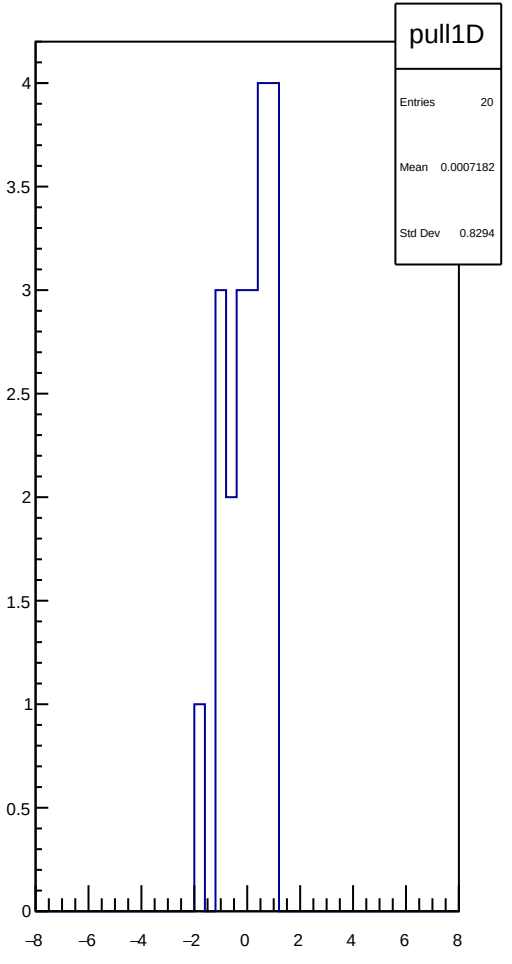

reg_asym_sam_48_dd_rms vs run
χ² / ndf 460 / 19
p0 103.6 ± 0.1628
118
116
114
112
110
108
106
104
102
100
98
96
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

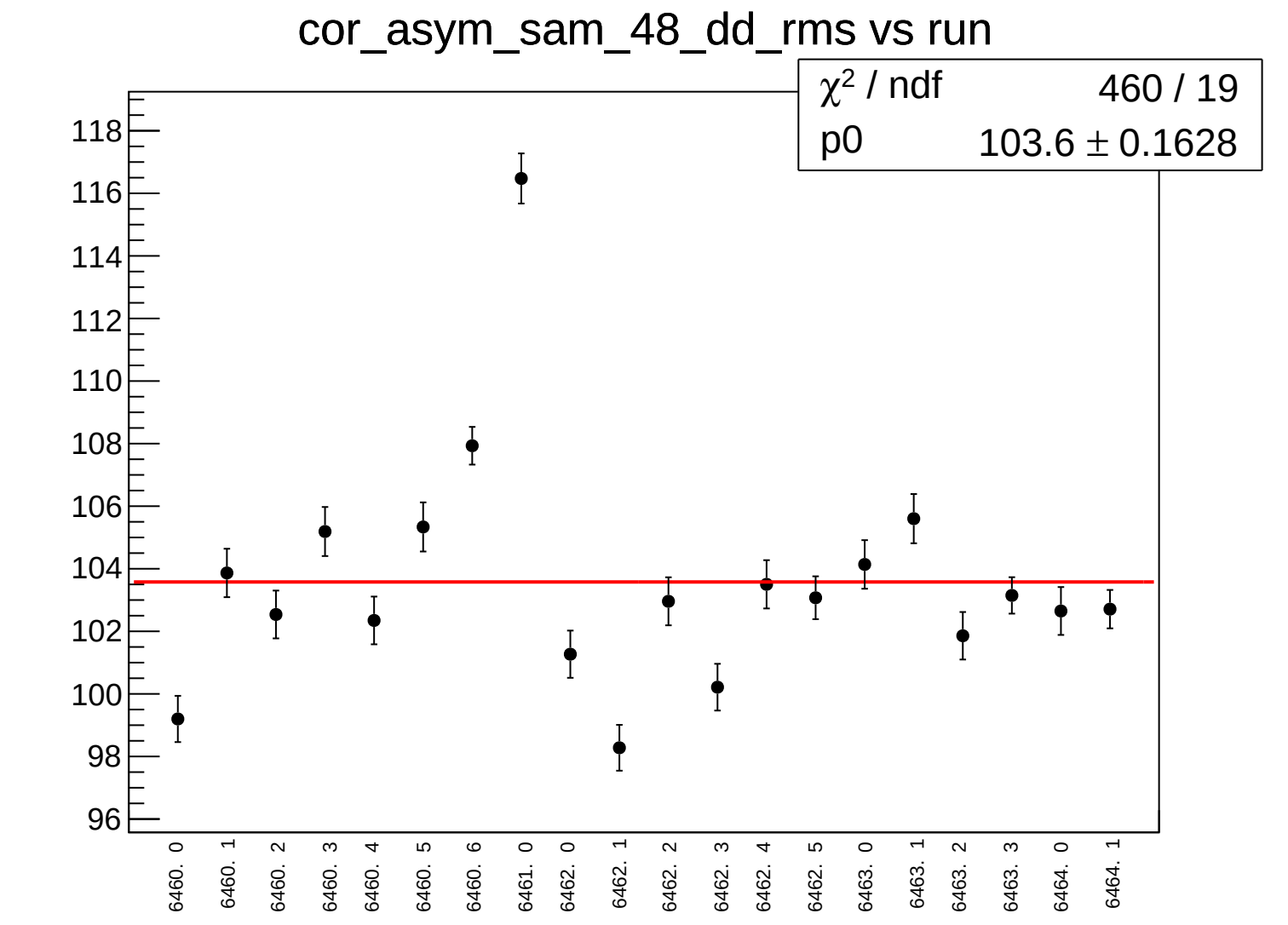

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 10.6 / 19
p0 −1011 ± 2437
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 50.91
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

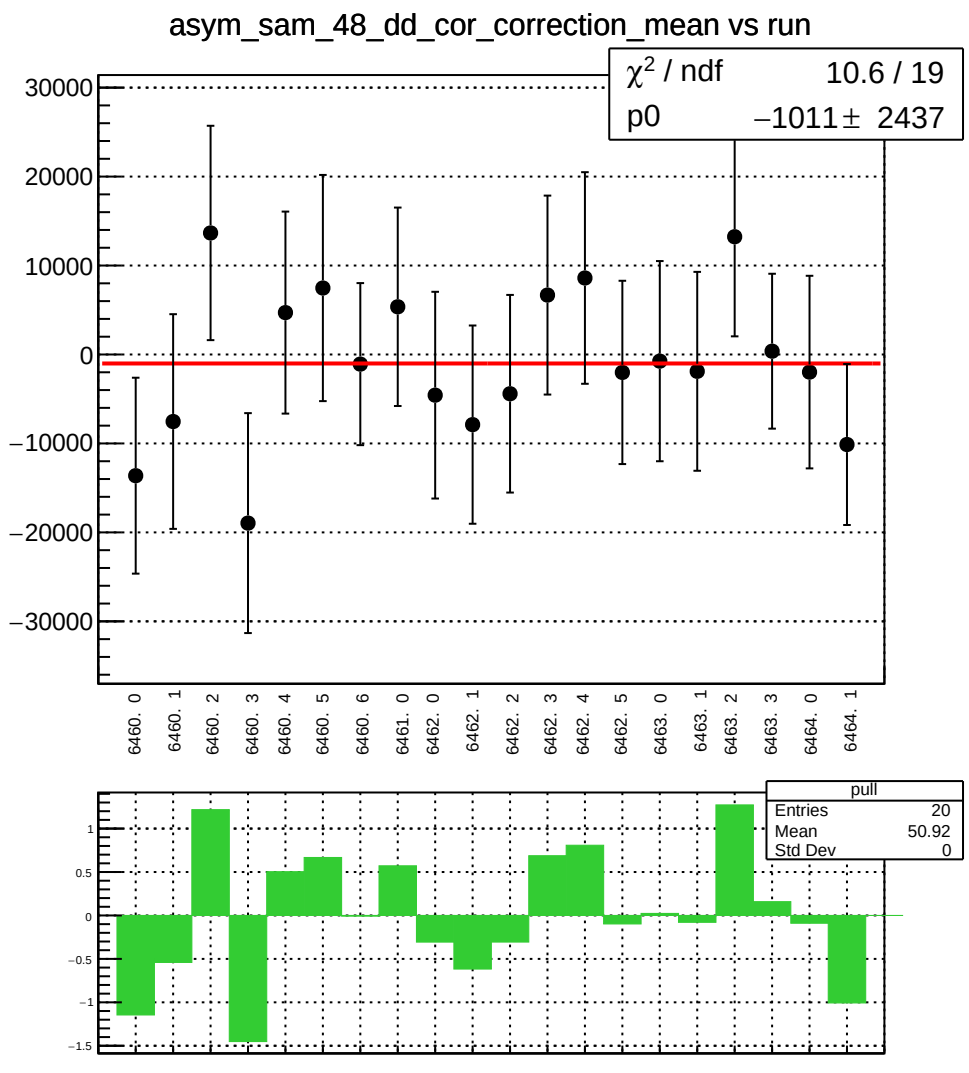

pull1D
Entries 20
Mean 0.01312
Std Dev 0.7278
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

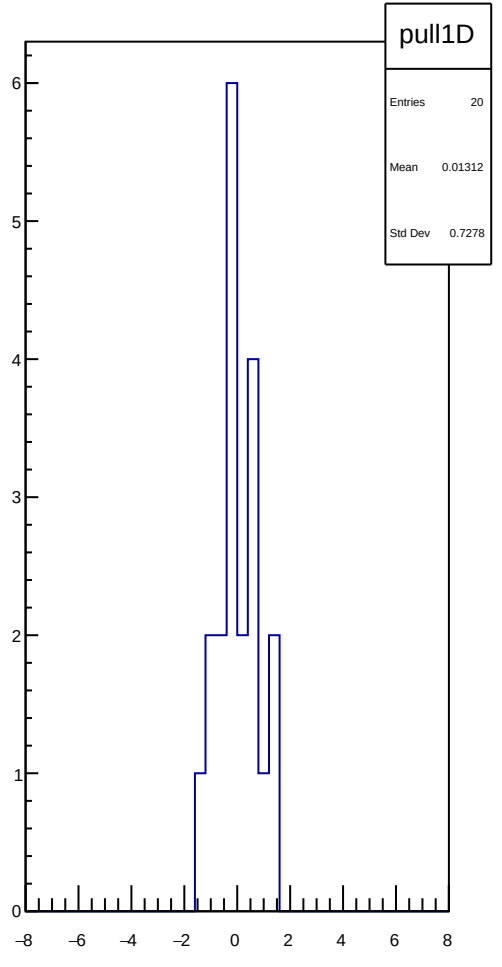

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 696.5 / 19
p0 1096 ± 1.723
1200
1150
1100
1050
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

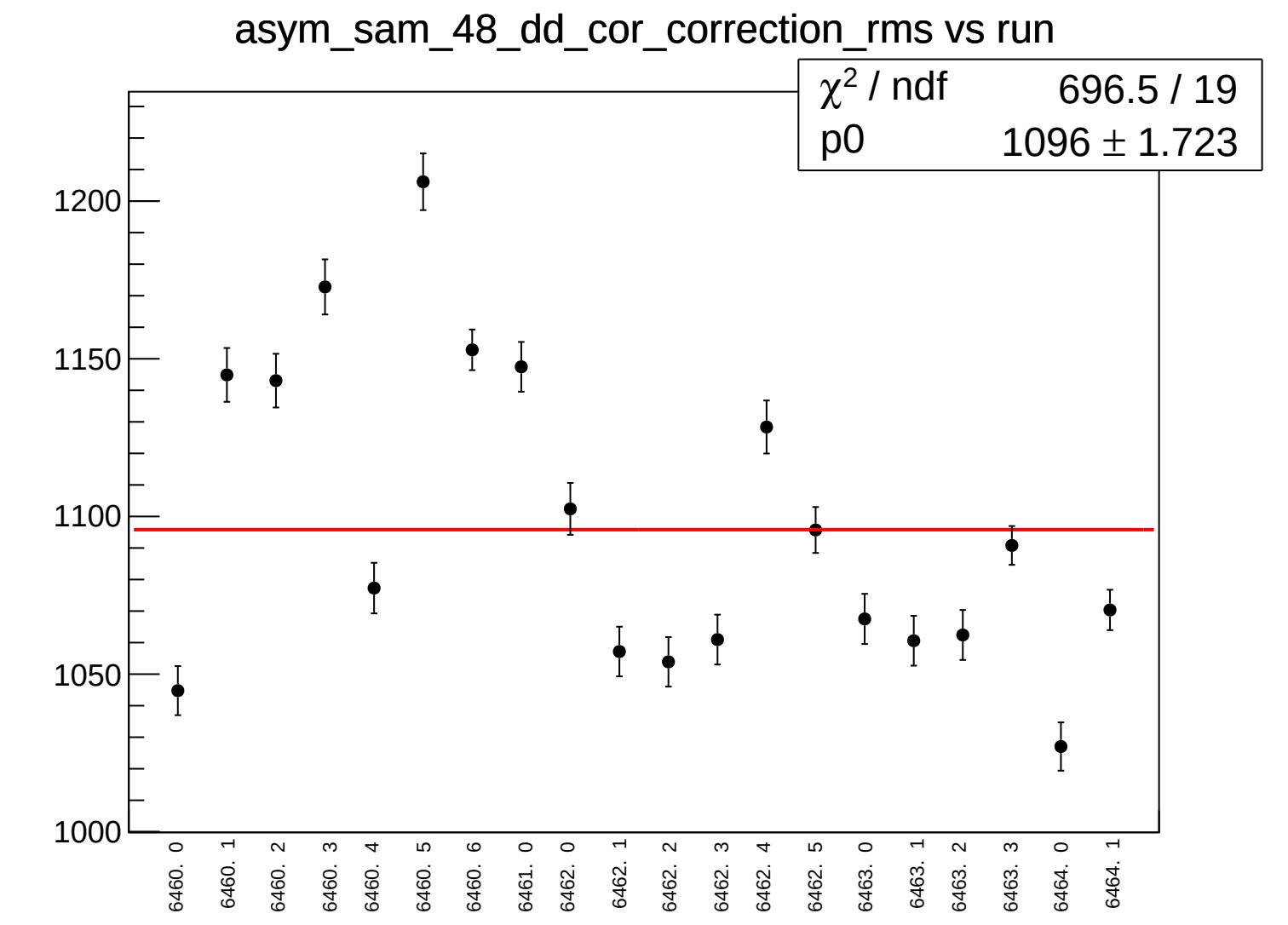

cor_asym_sam_48_dd_mean vs run
χ² / ndf 13.76 / 19
p0 −153.5 ± 230.2
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 236.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

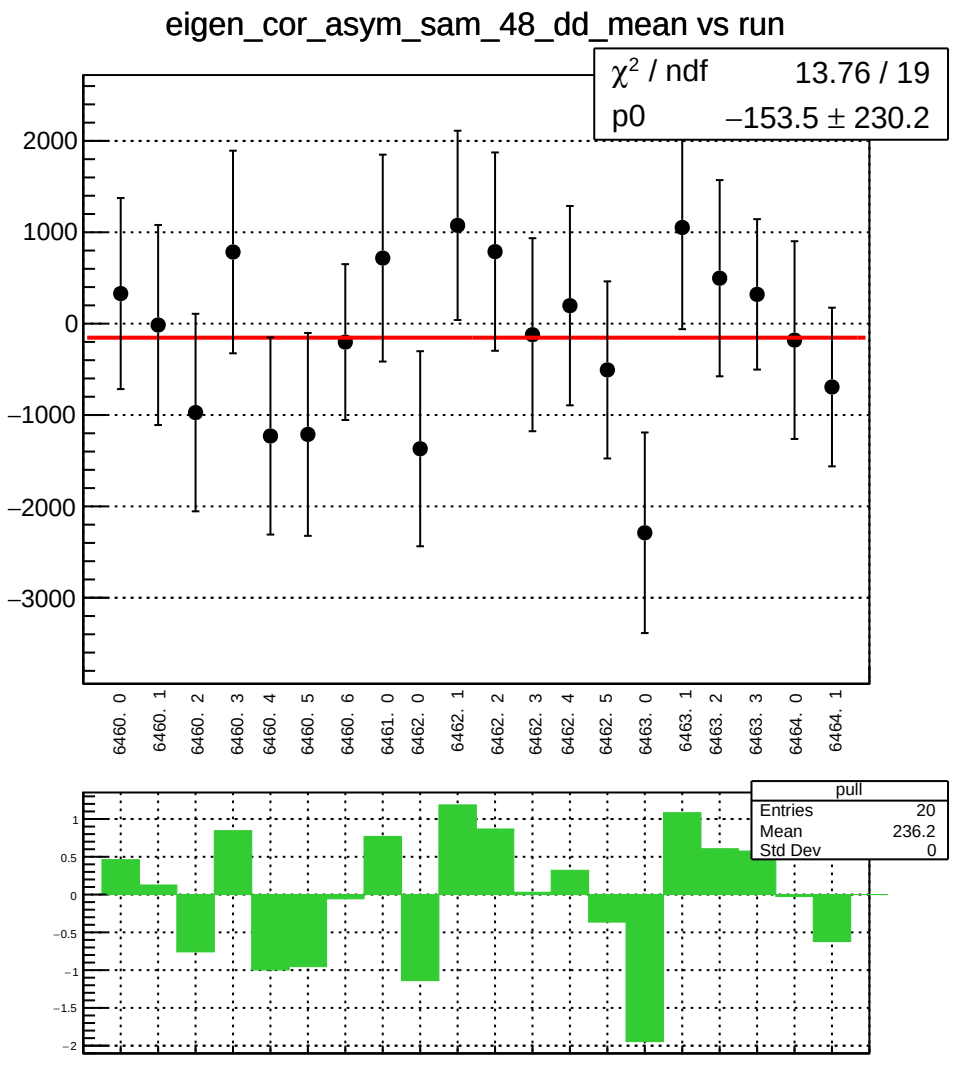

pull1D
Entries 20
Mean 0.0007182
Std Dev 0.8294
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

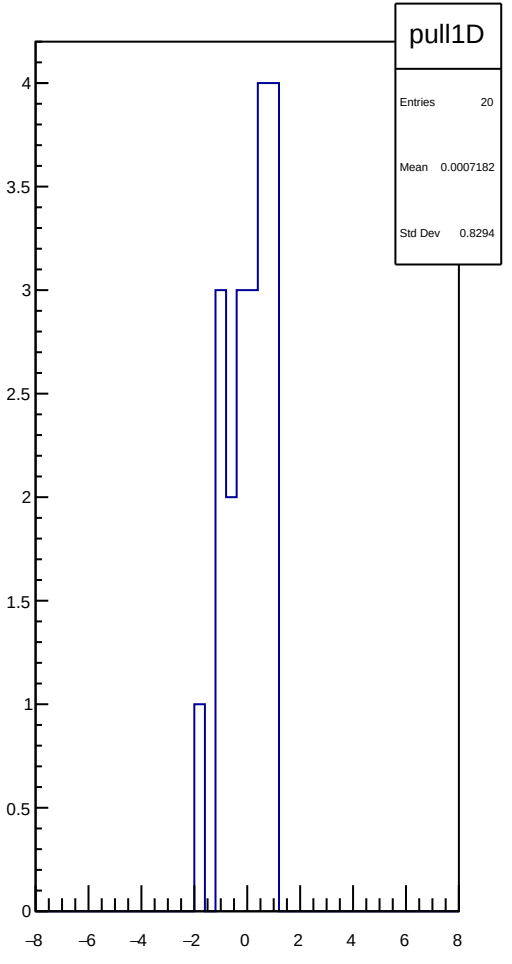

cor_asym_sam_48_dd_rms vs run
χ² / ndf 460 / 19
p0 103.6 ± 0.1628
118
116
114
112
110
108
106
104
102
100
98
96
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

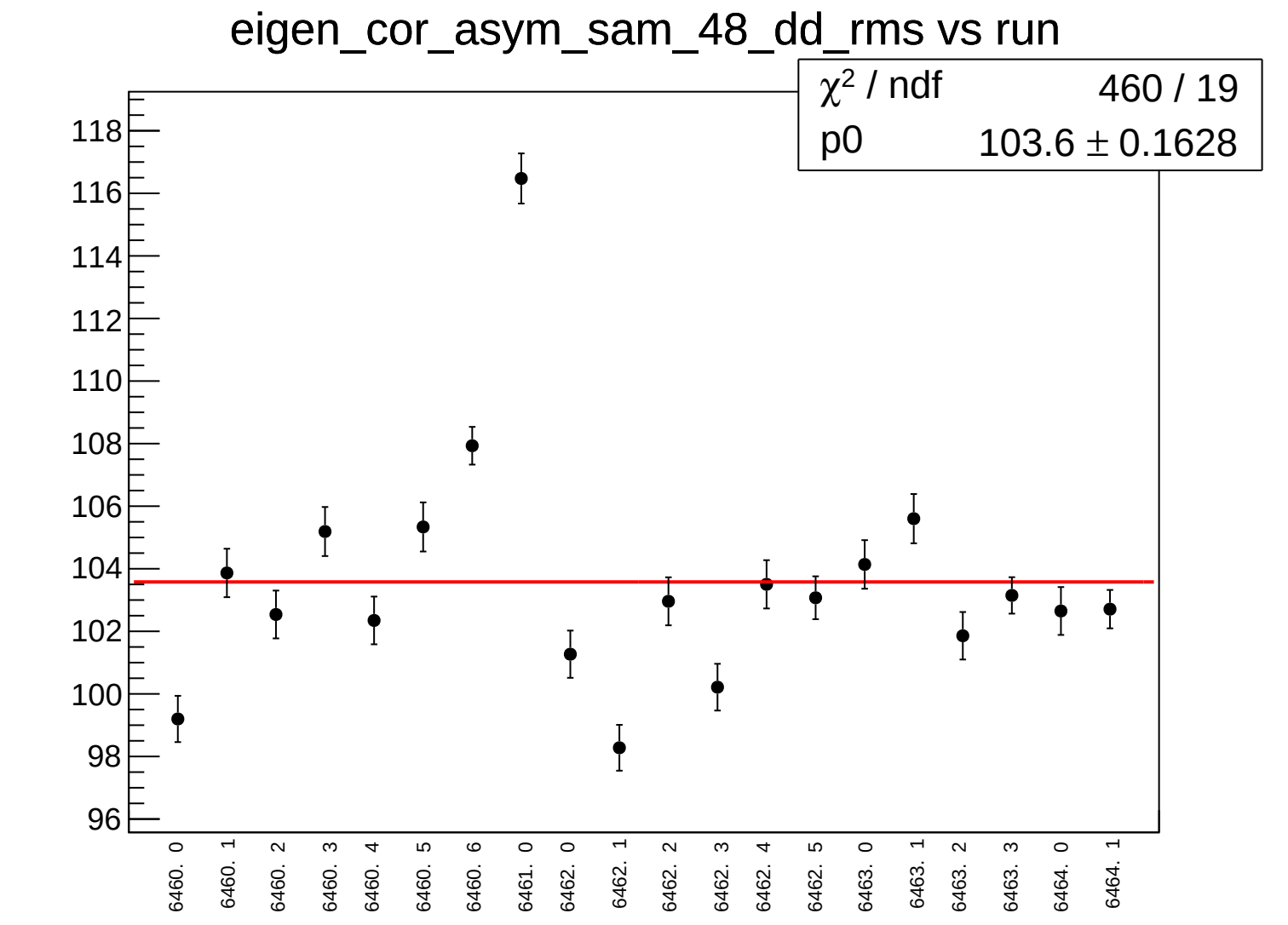

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 10.6 / 19
p0 −1011 ± 2437
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 50.92
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

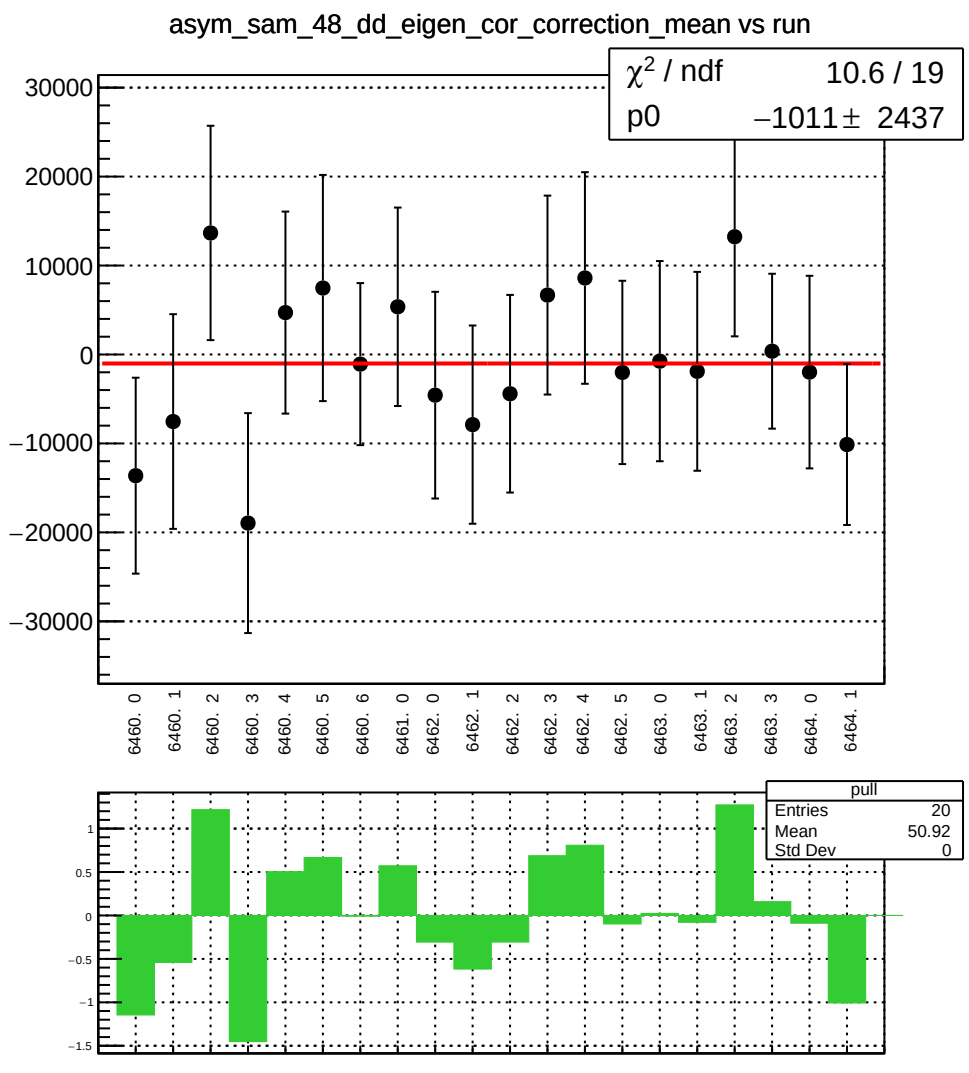

pull1D
Entries 20
Mean 0.01312
Std Dev 0.7278
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

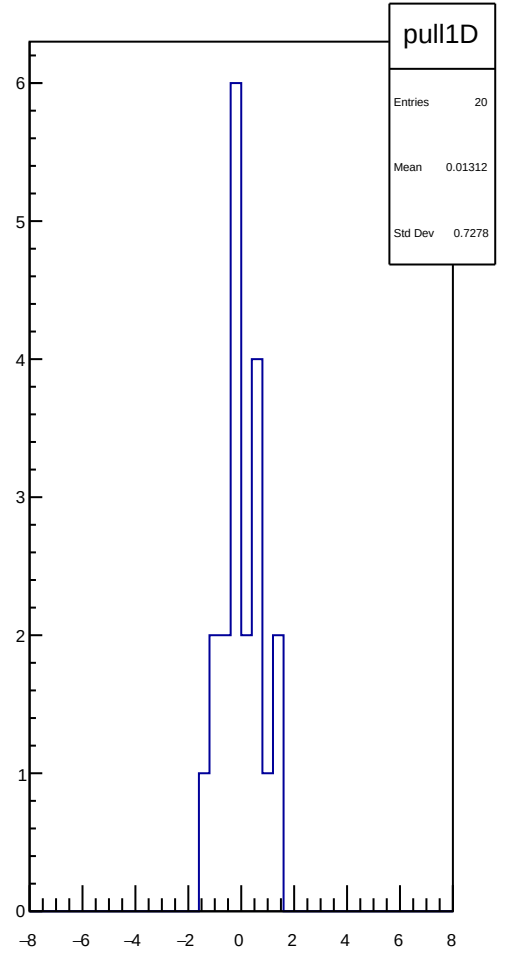

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 696.5 / 19
p0 1096 ± 1.723
1200
1150
1100
1050
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

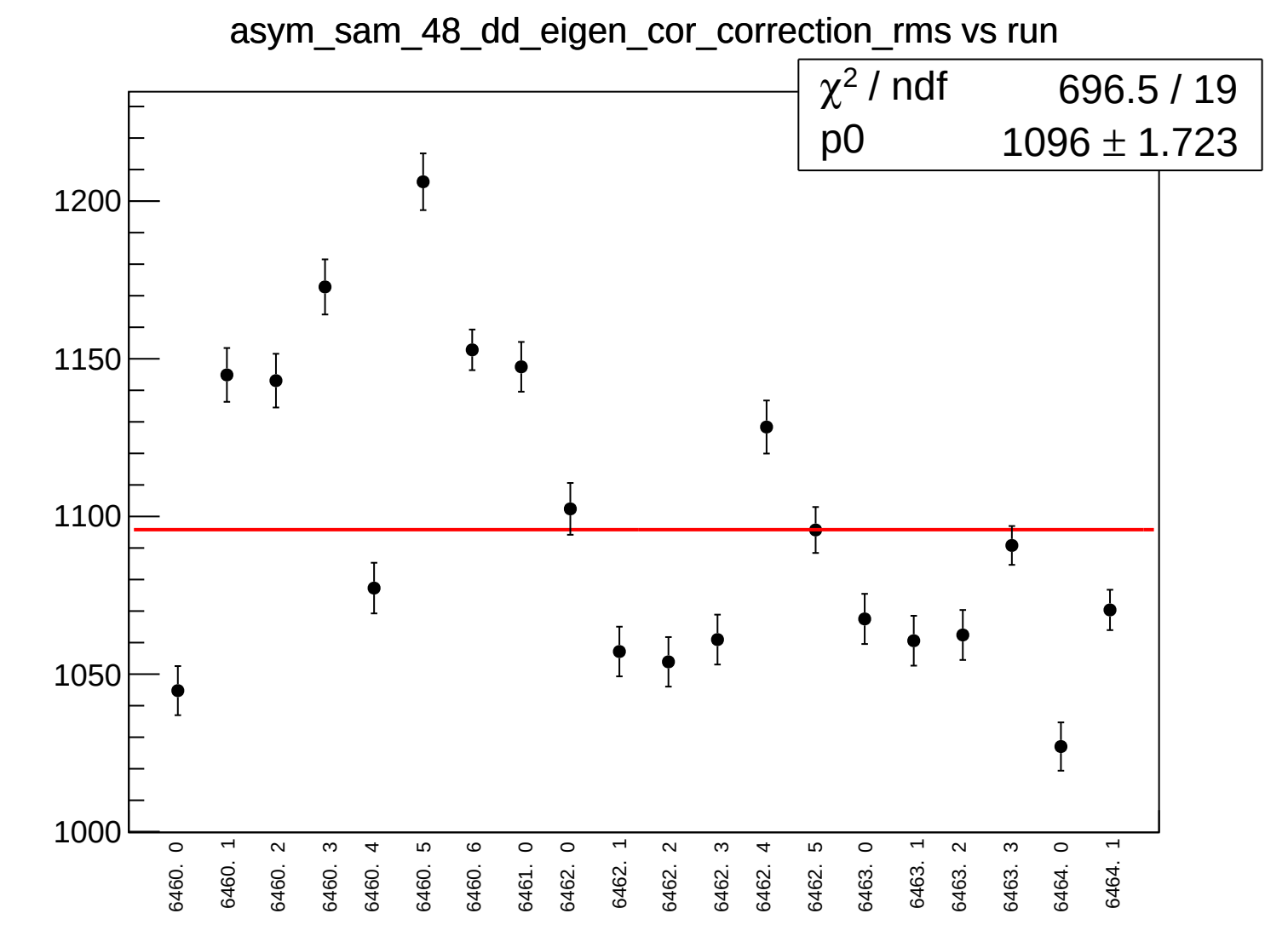

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 13.76 / 19
p0 −153.5 ± 230.2
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 236.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

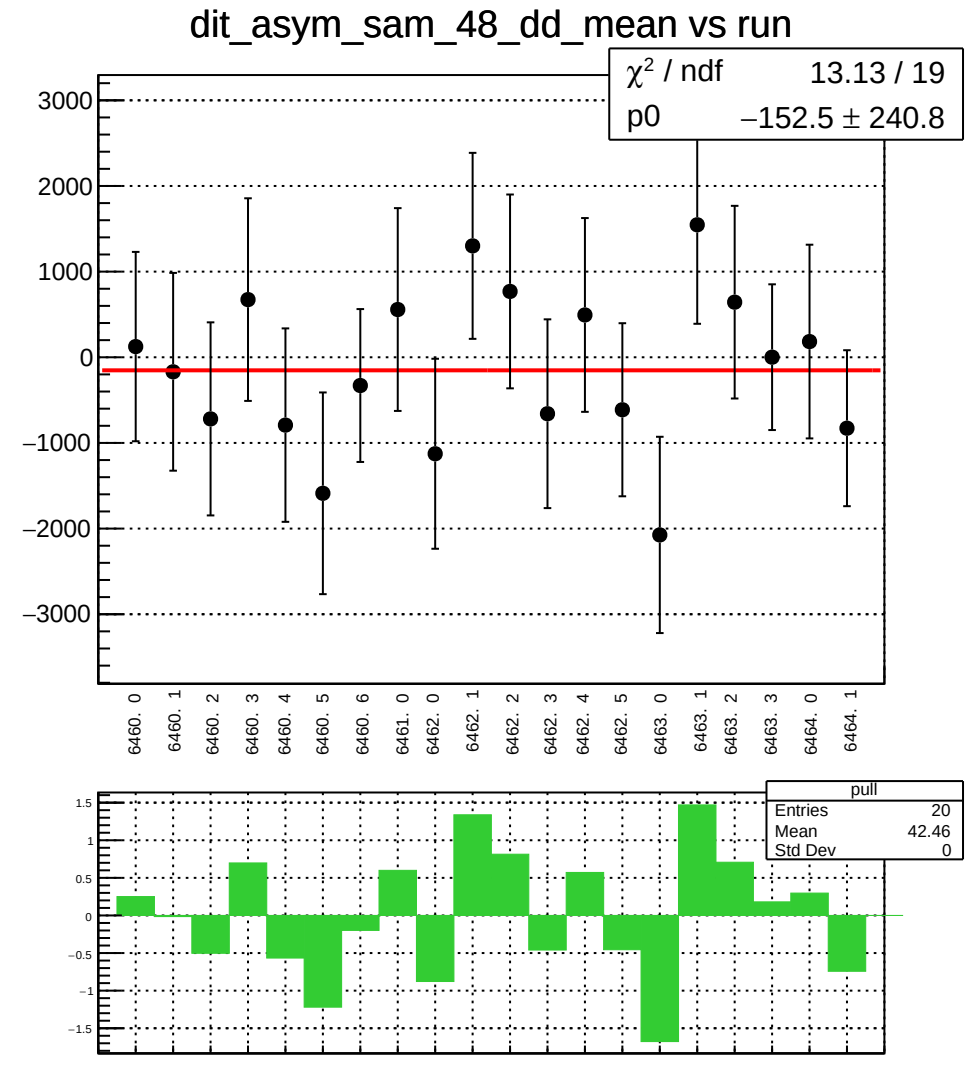

pull1D
Entries 20
Mean 0.0007182
Std Dev 0.8294
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

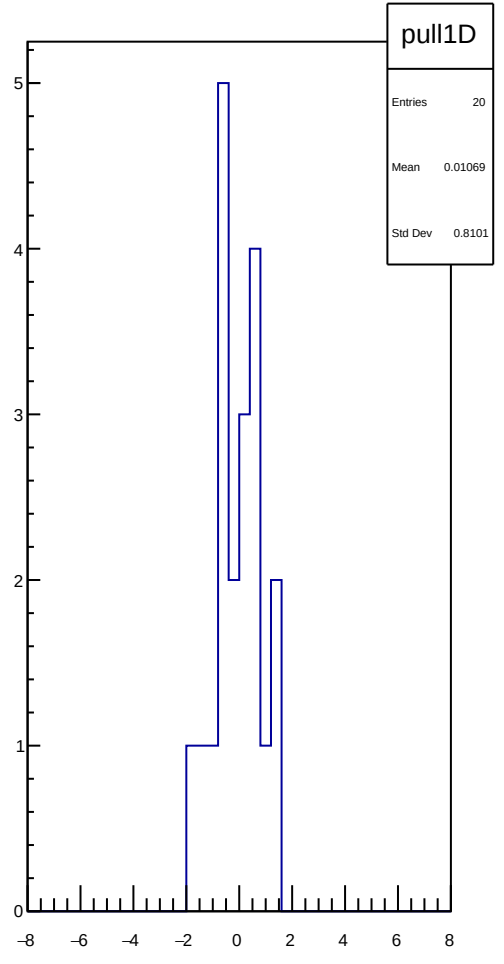

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 460 / 19
p0 103.6 ± 0.1628
118
116
114
112
110
108
106
104
102
100
98
96
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

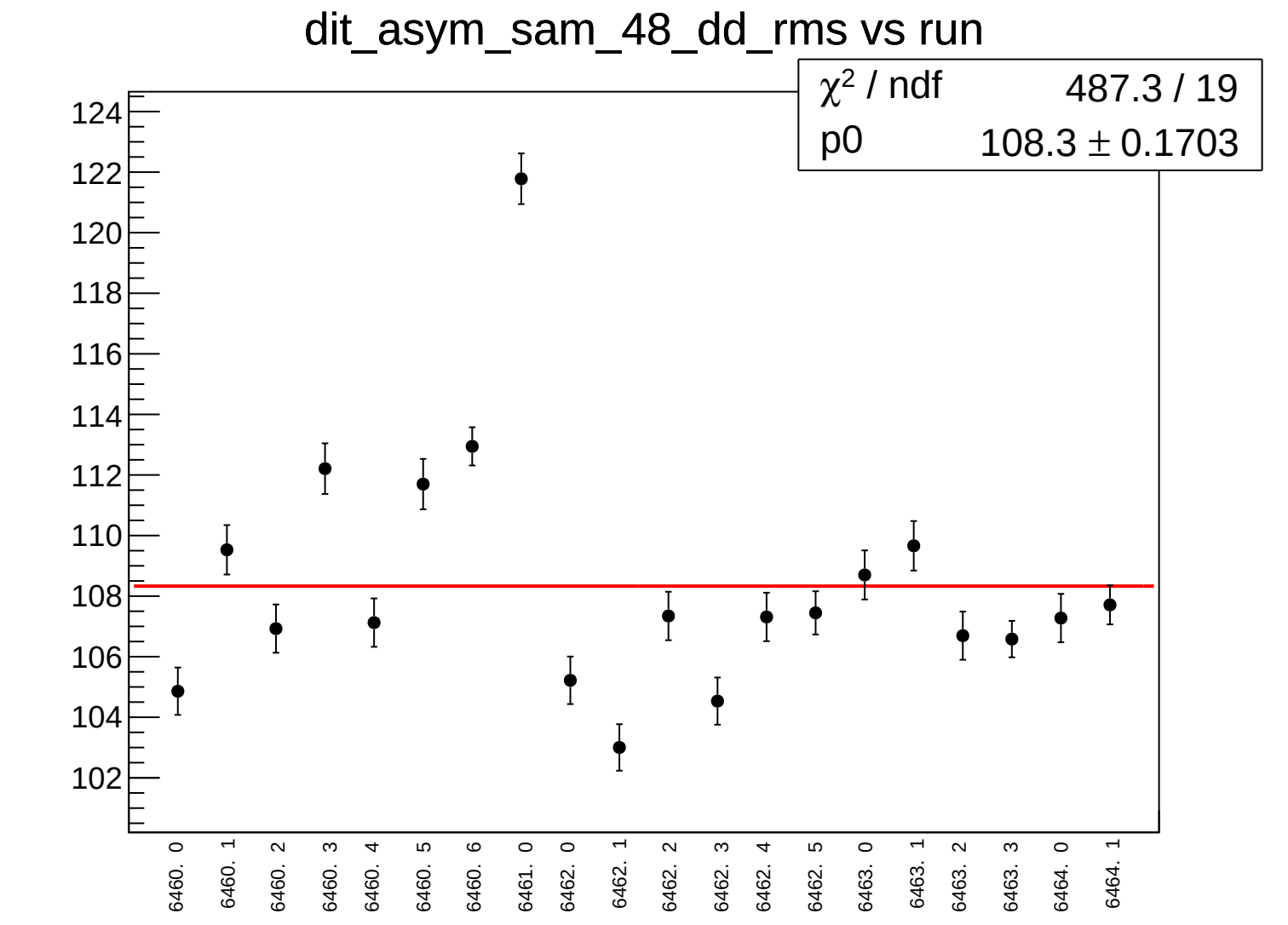

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 10.6 / 19
p0 −1011 ± 2437
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 50.92
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

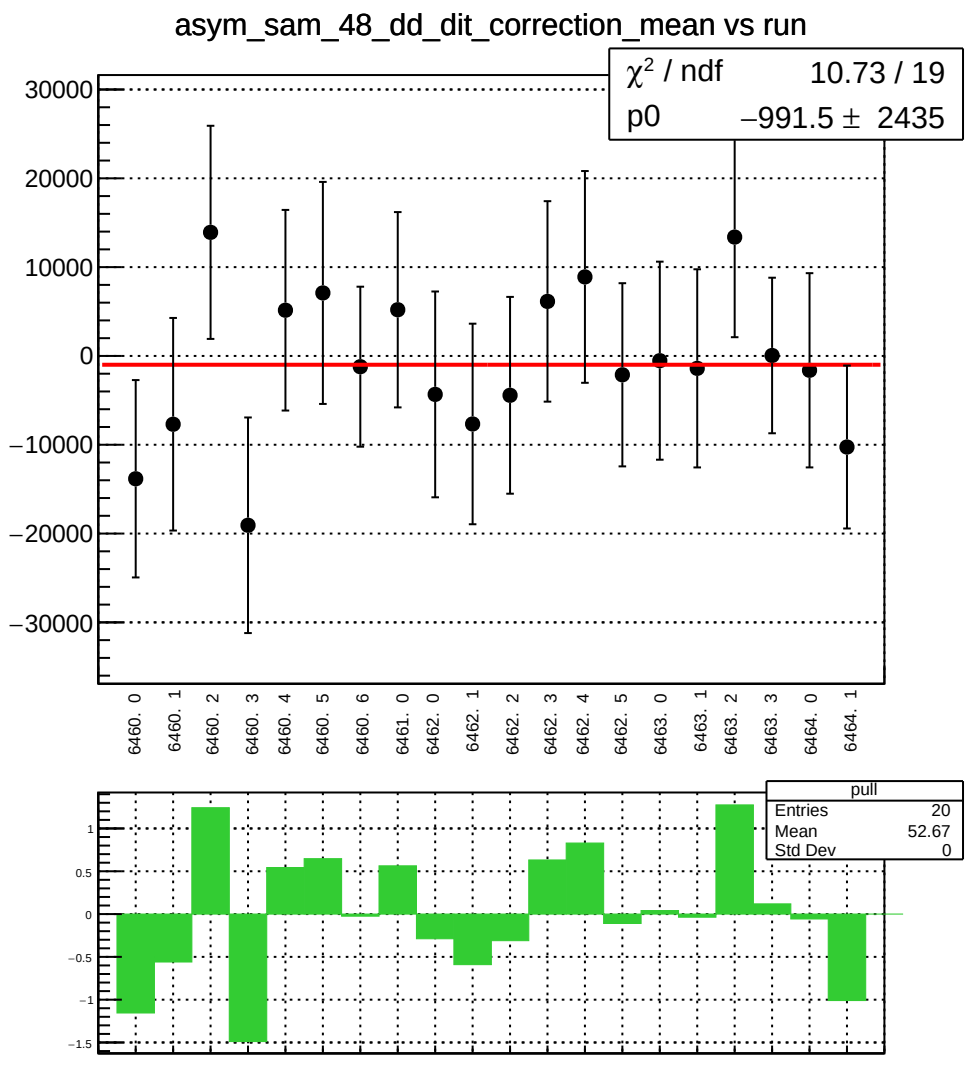

pull1D
Entries 20
Mean 0.01312
Std Dev 0.7278
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

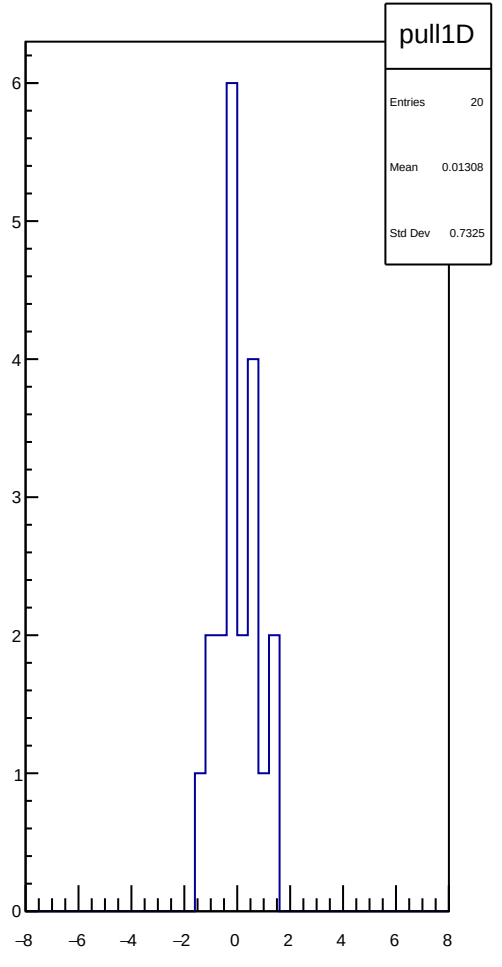

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 696.5 / 19
p0 1096 ± 1.723
1200
1150
1100
1050
1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

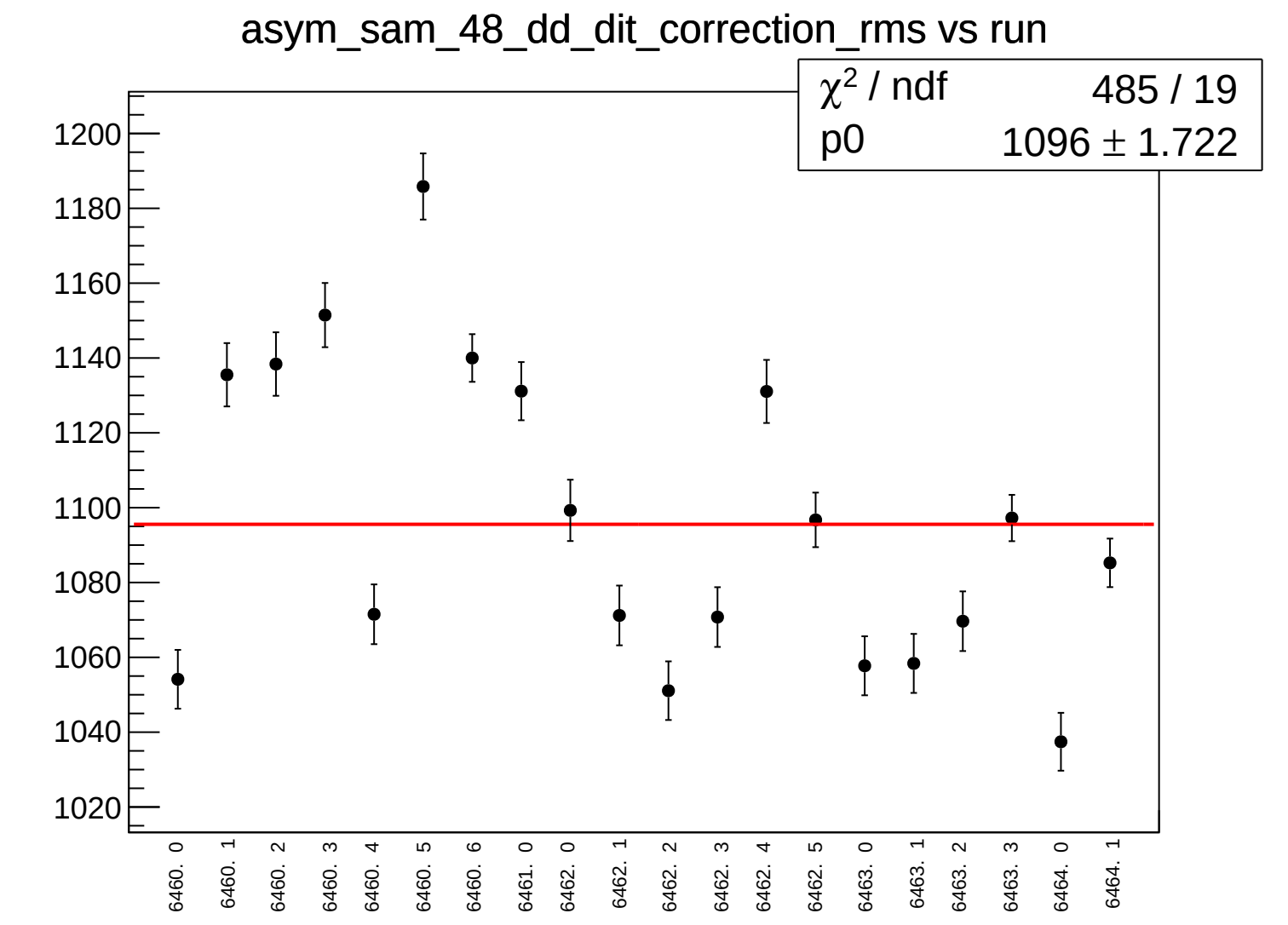

dit_asym_sam_48_dd_mean vs run
χ² / ndf 13.13 / 19
p0 −152.5 ± 240.8
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 42.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

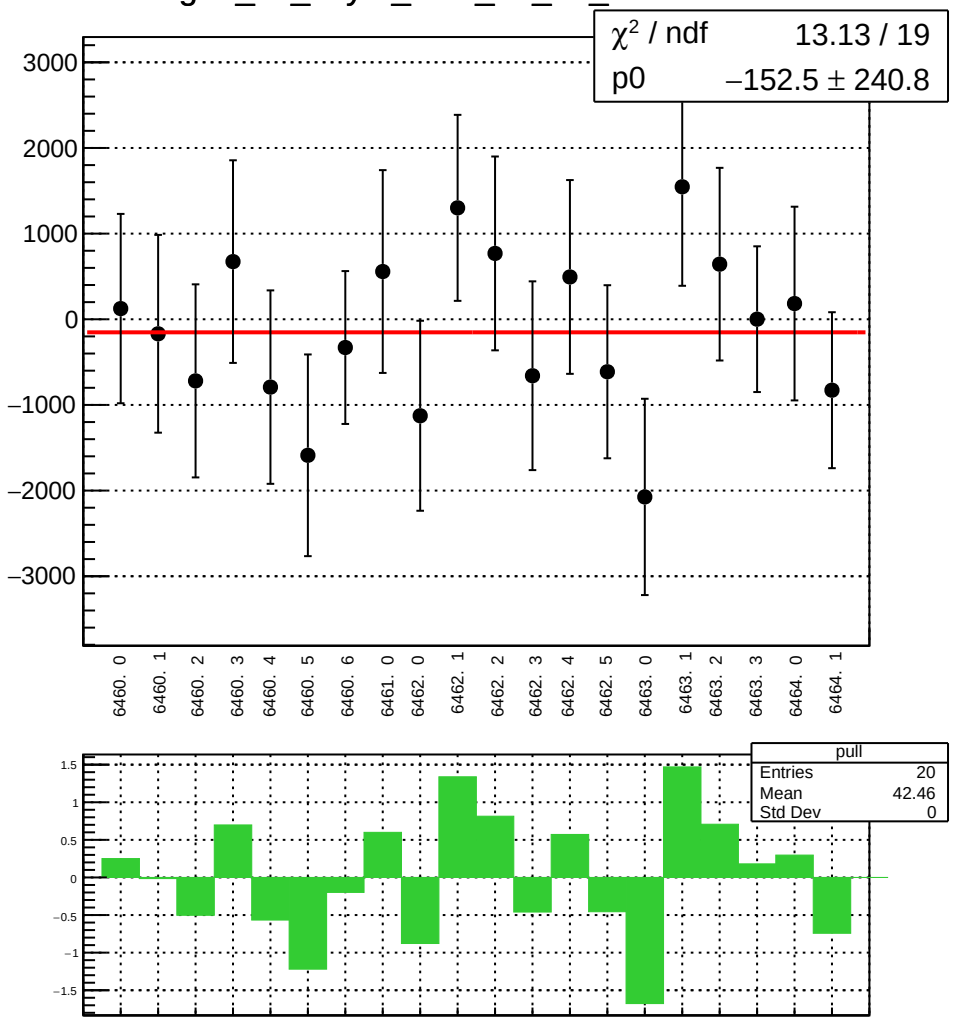

pull1D
Entries 20
Mean 0.01069
Std Dev 0.8101
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

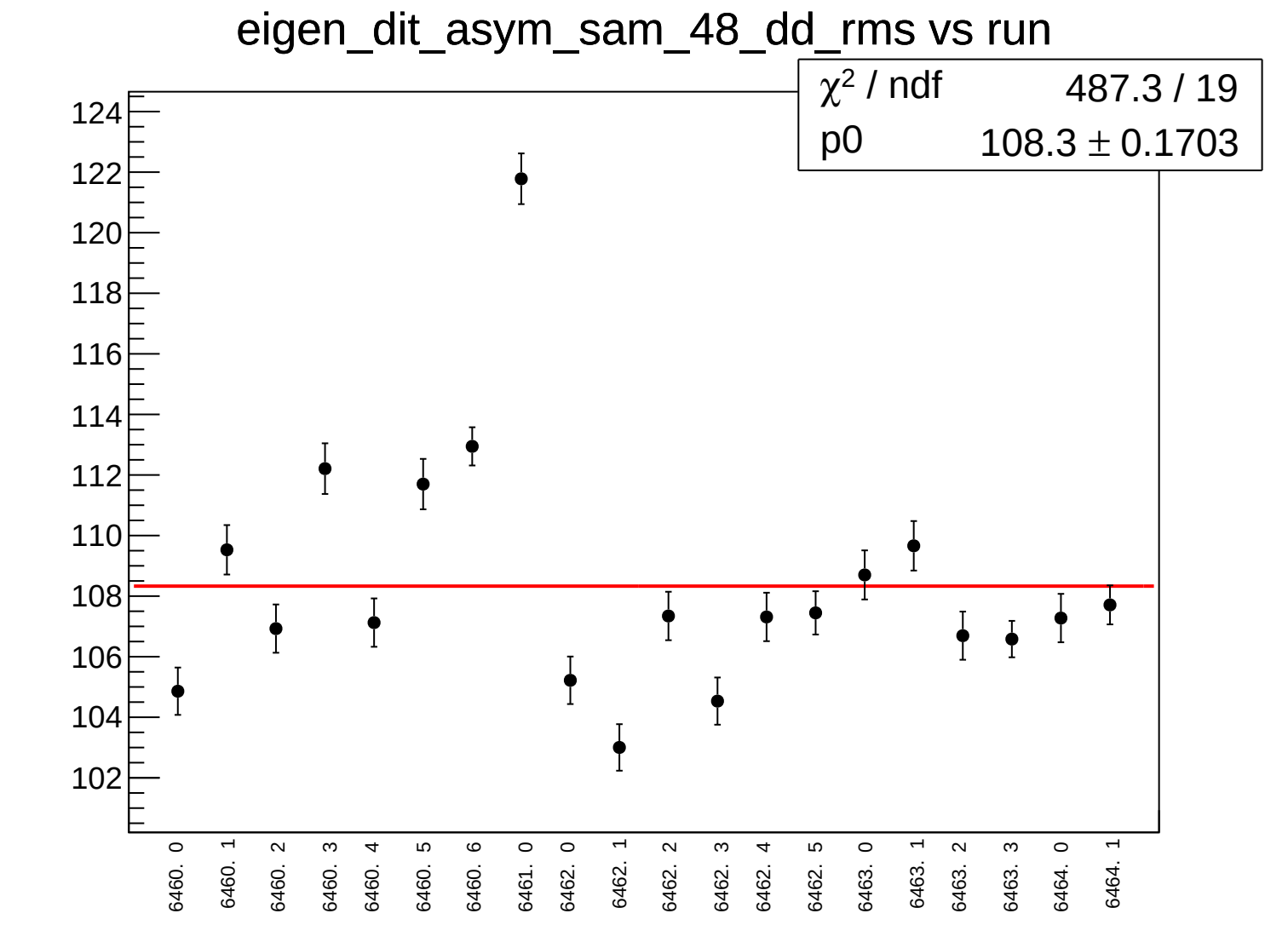

dit_asym_sam_48_dd_rms vs run
χ² / ndf 487.3 / 19
p0 108.3 ± 0.1703
124
122
120
118
116
114
112
110
108
106
104
102
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

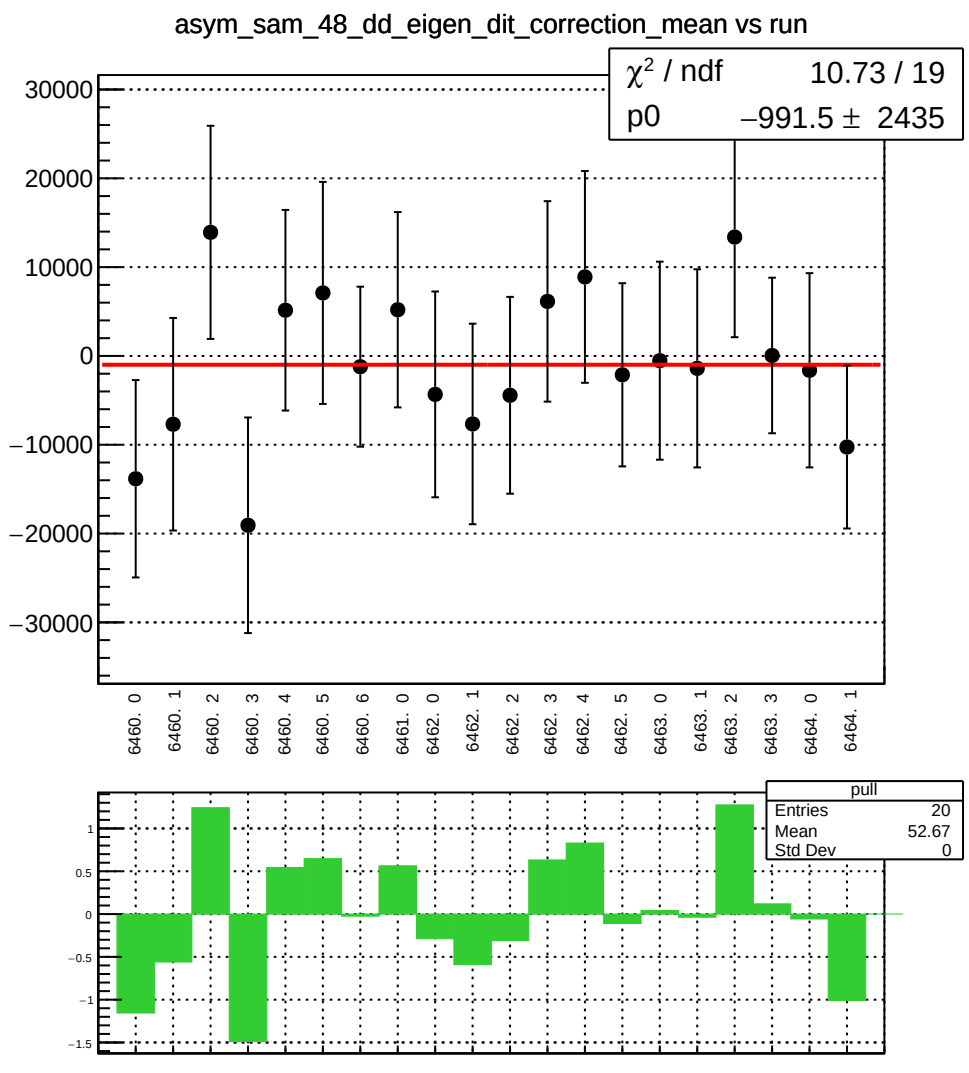

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 10.73 / 19
p0 −991.5 ± 2435
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 52.67
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

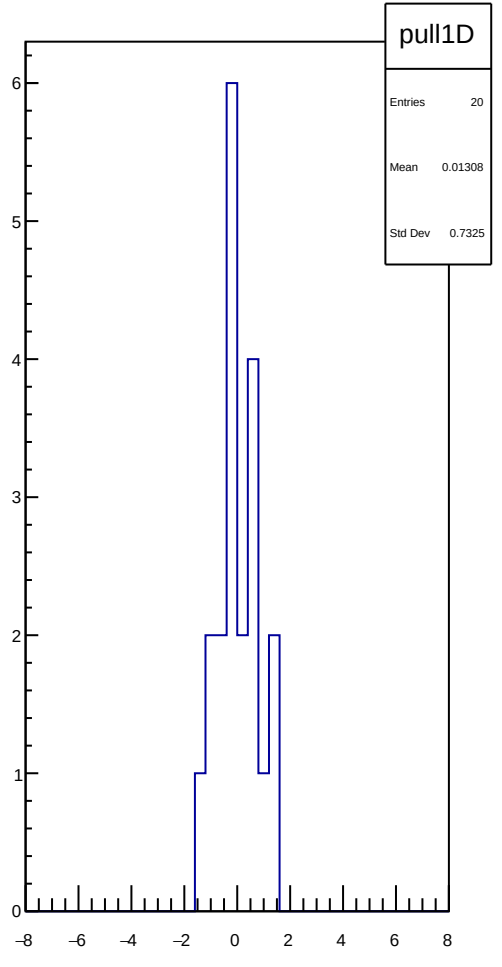

pull1D
Entries 20
Mean 0.01308
Std Dev 0.7325
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

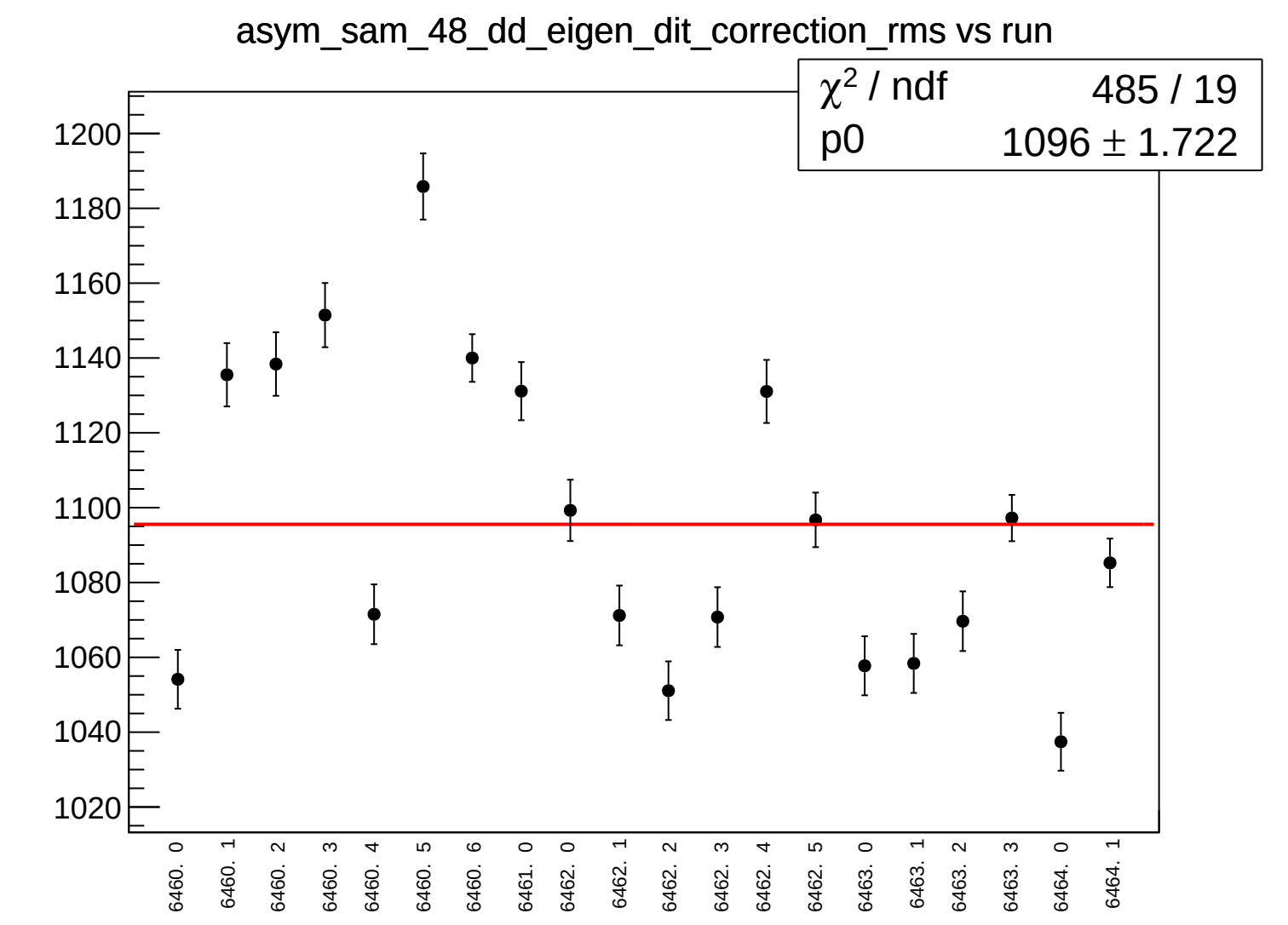

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 485 / 19
p0 1096 ± 1.722
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

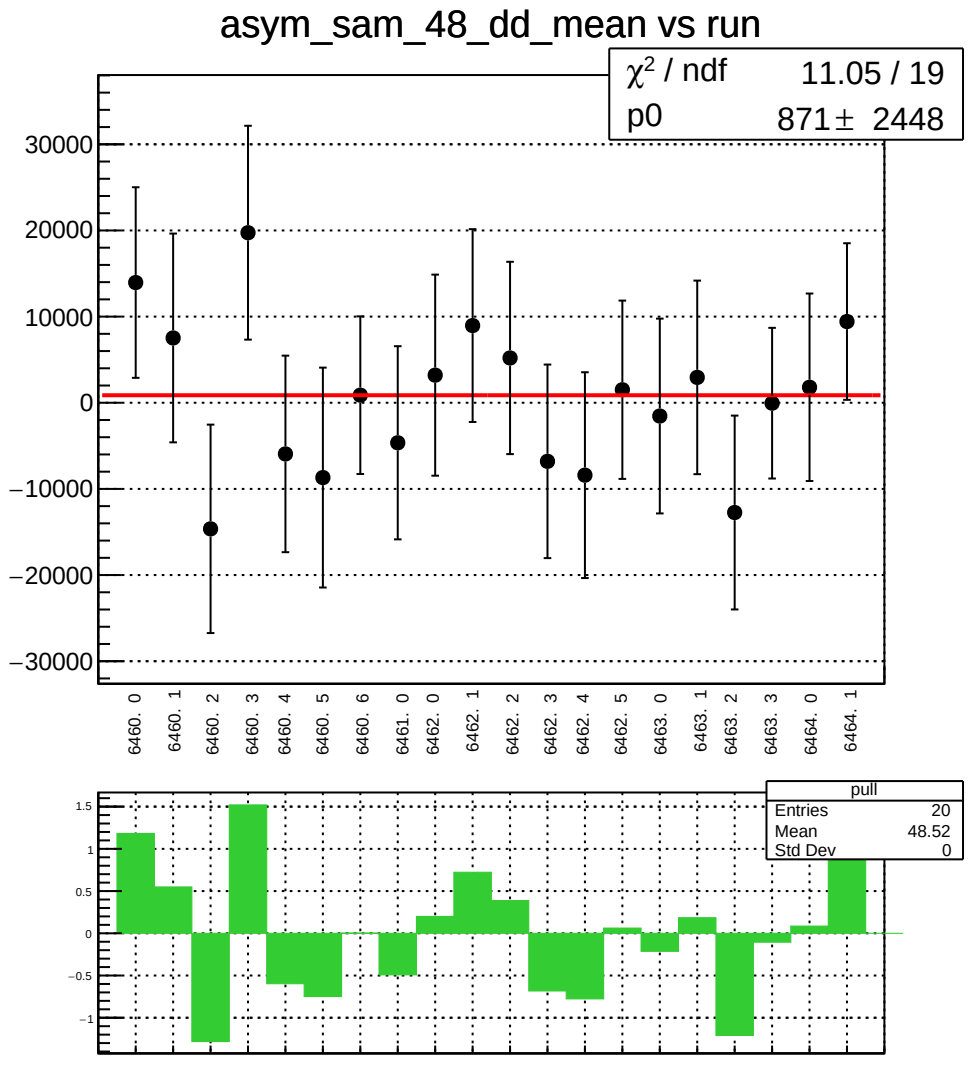

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 13.13 / 19
p0 −152.5 ± 240.8
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 42.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01069
Std Dev 0.8101
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

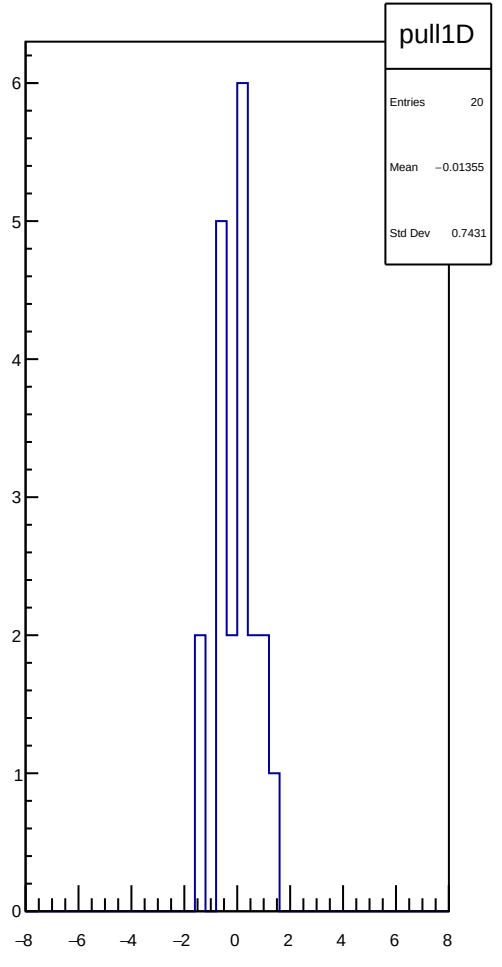

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 487.3 / 19
p0 108.3 ± 0.1703
124
122
120
118
116
114
112
110
108
106
104
102
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

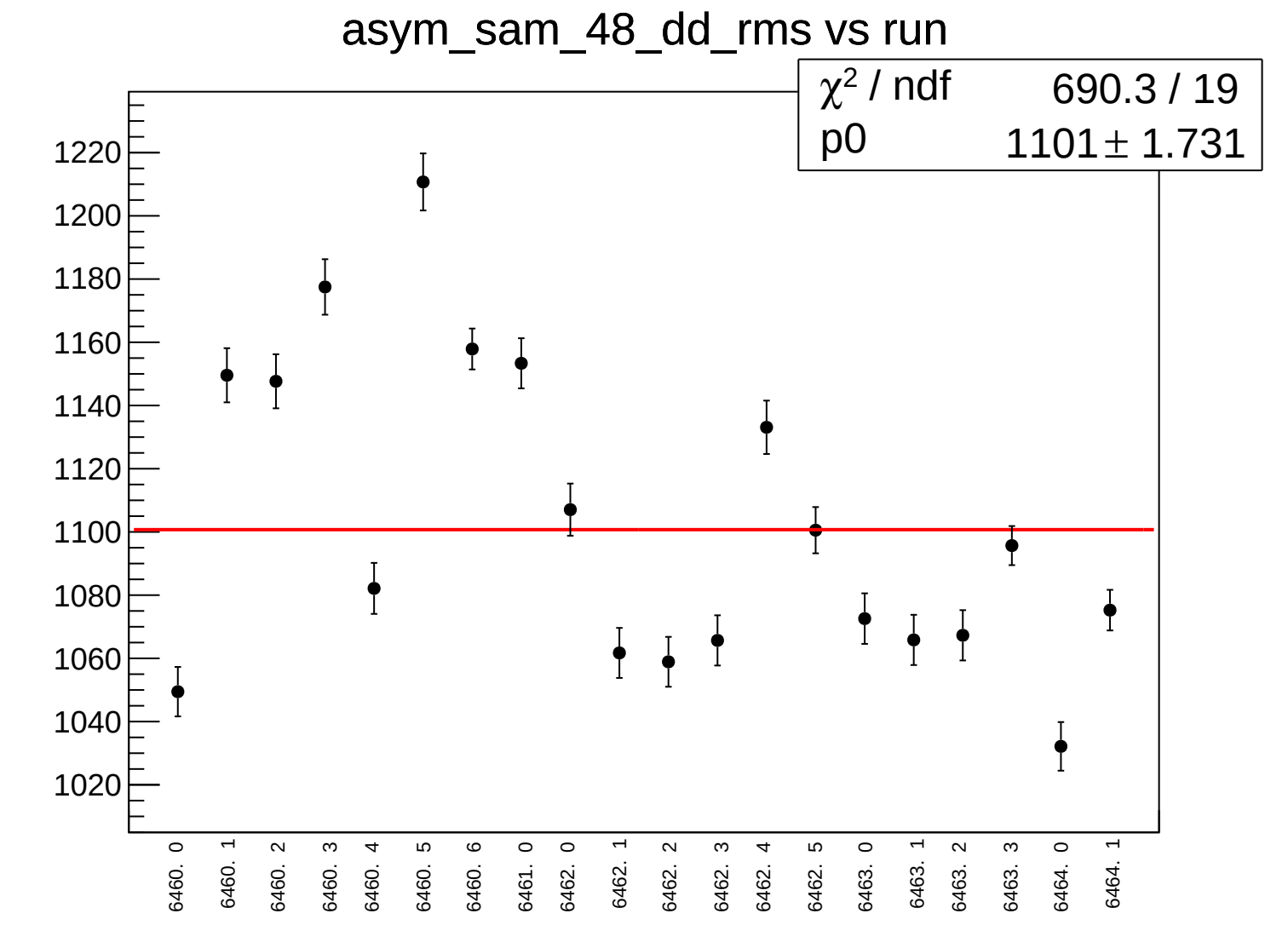

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 10.73 / 19
p0 −991.5 ± 2435
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 52.67
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

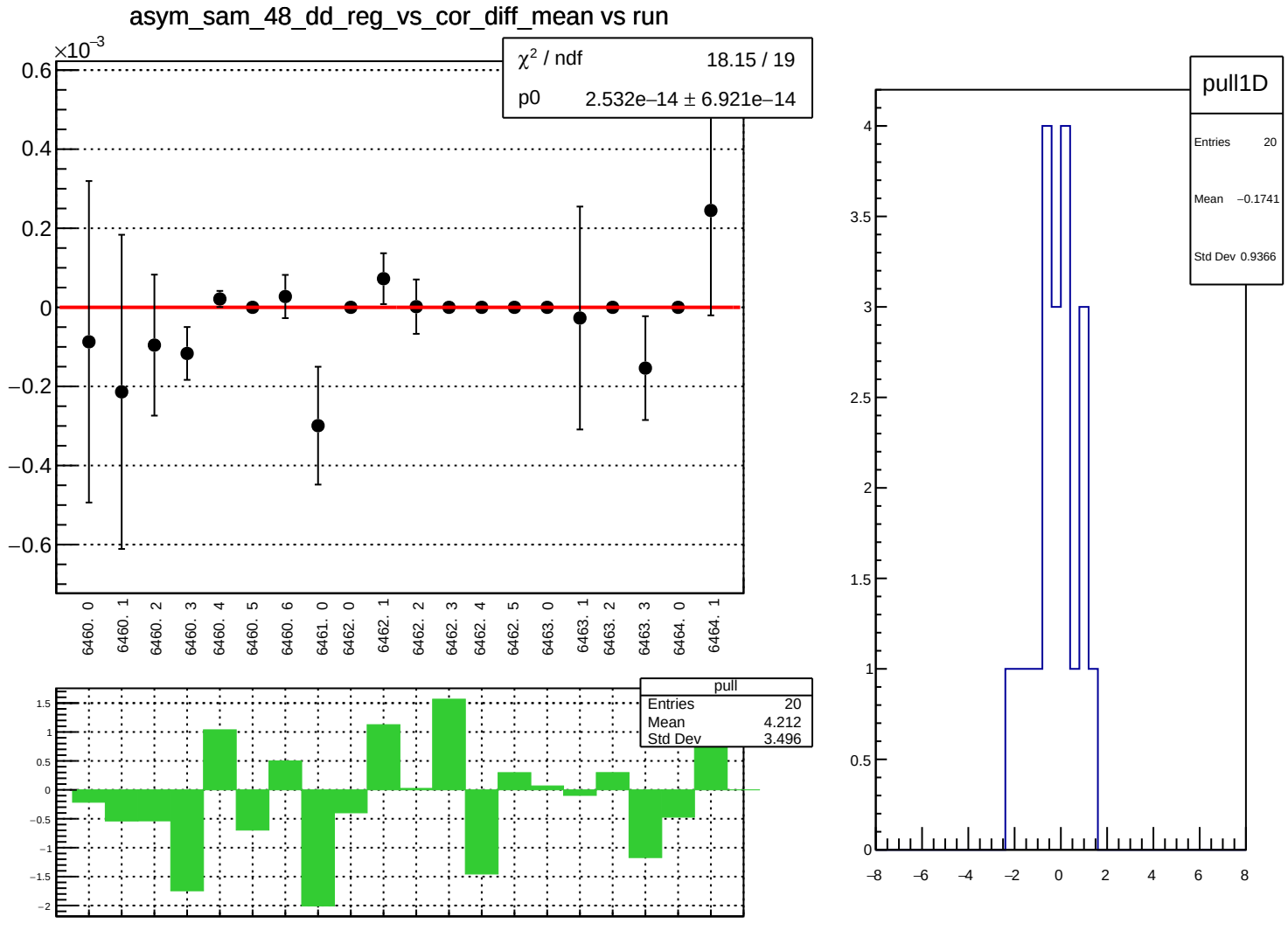

pull1D
Entries 20
Mean 0.01308
Std Dev 0.7325
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

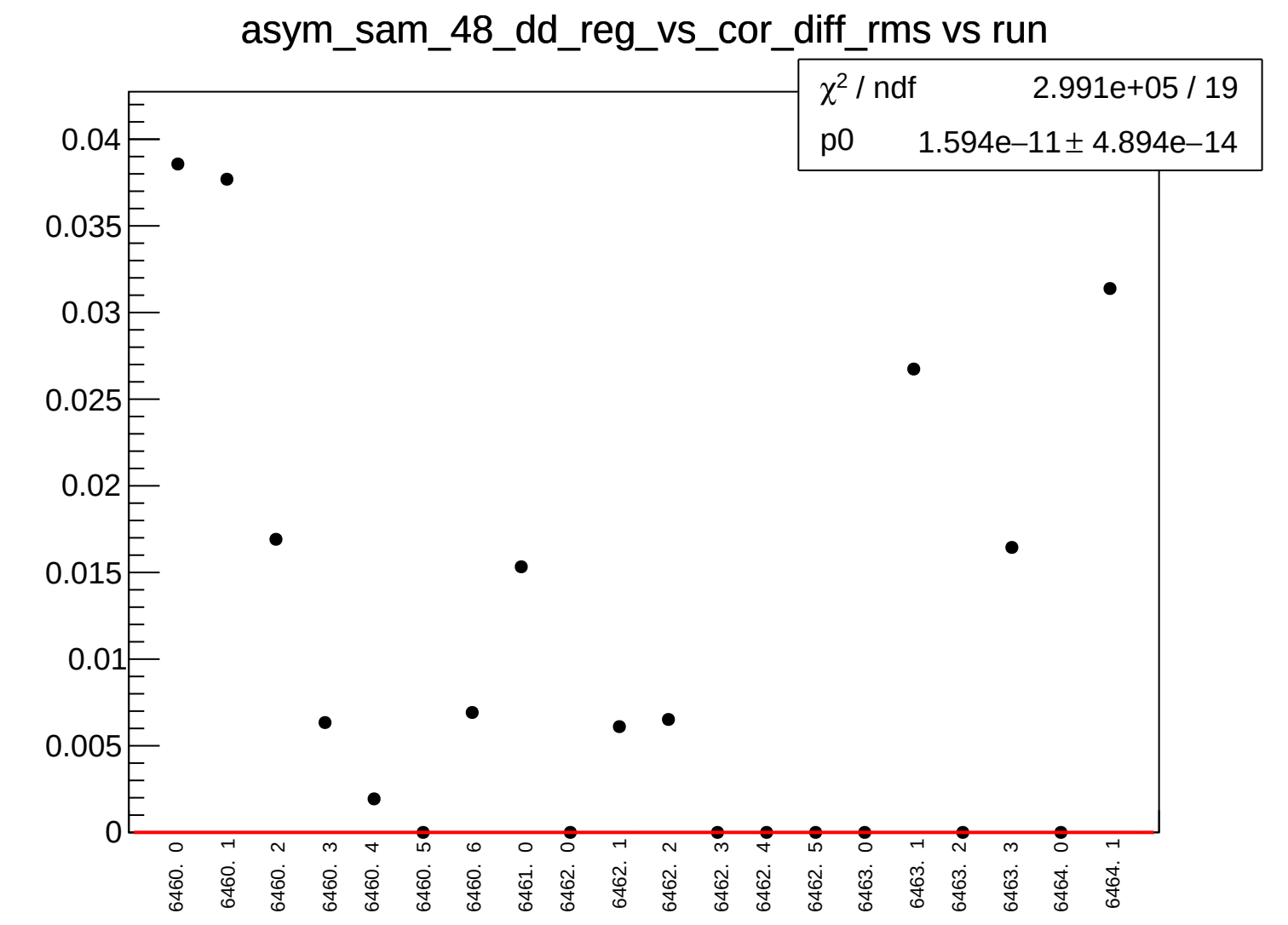

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 485 / 19
p0 1096 ± 1.722
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

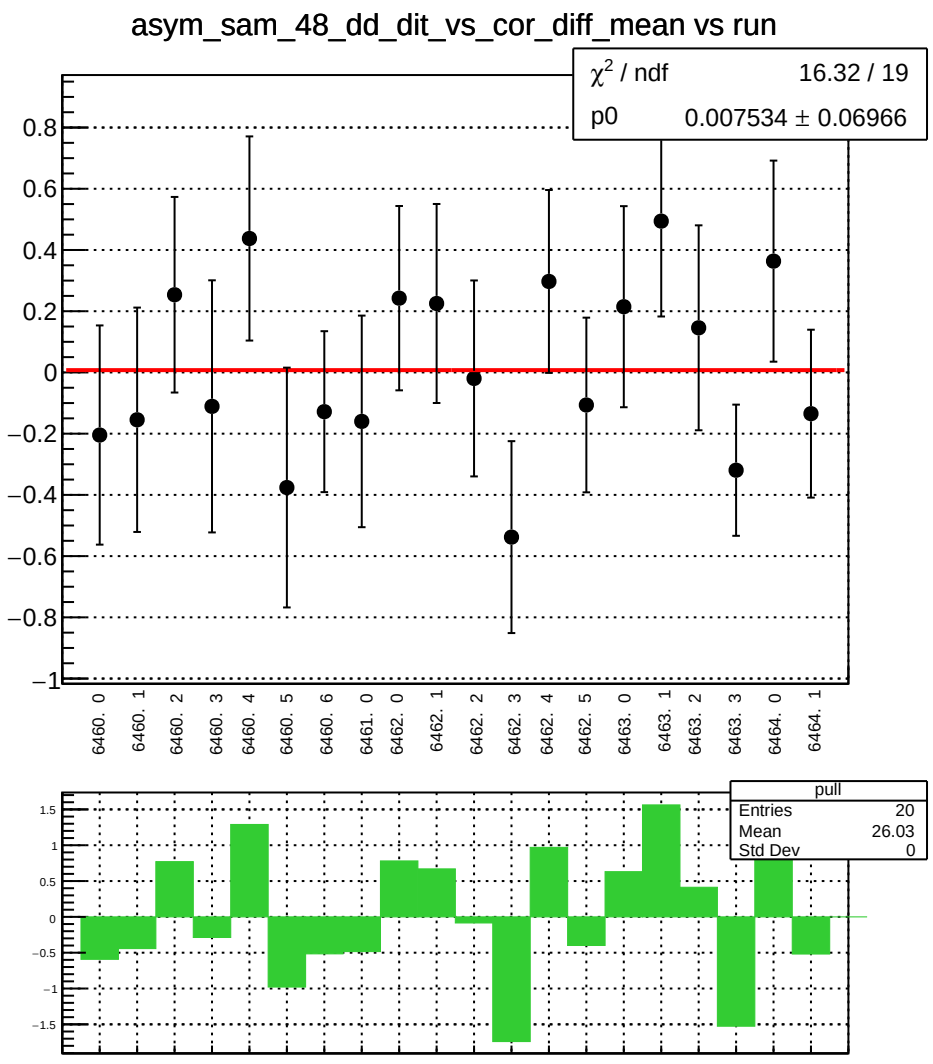

asym_sam_48_dd_mean vs run
χ² / ndf 11.05 / 19
p0 871 ± 2448
30000
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1

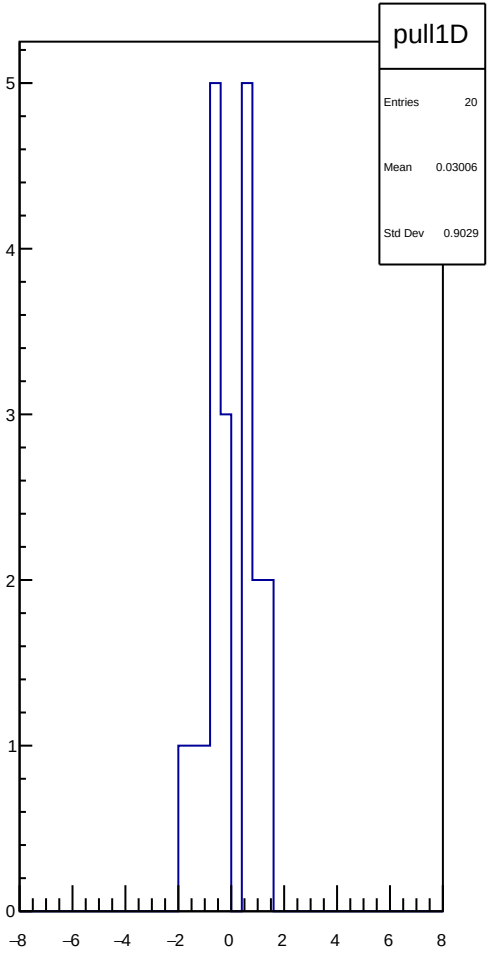

pull1D
Entries 20
Mean −0.01355
Std Dev 0.7431
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

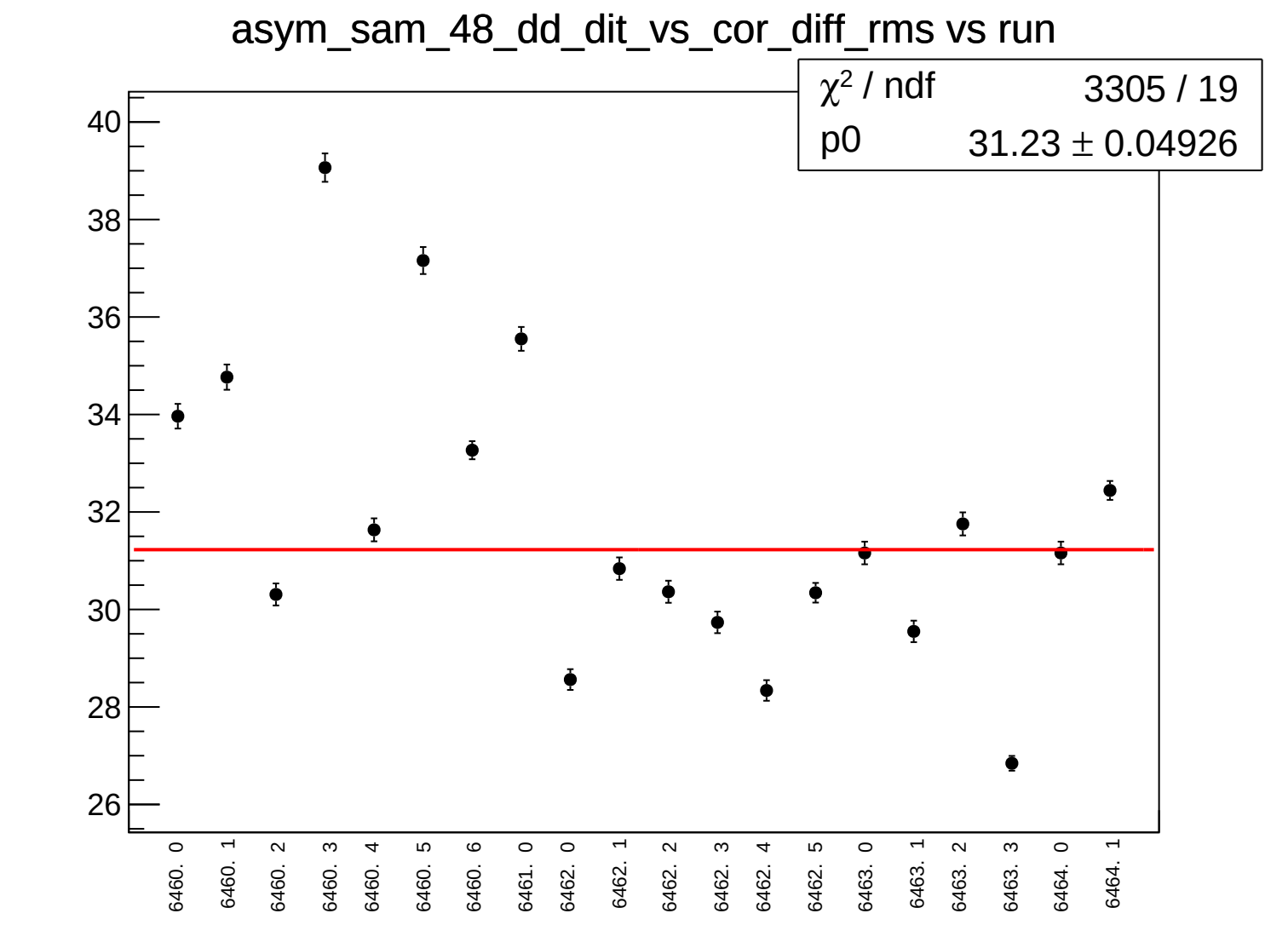

asym_sam_48_dd_rms vs run
χ² / ndf 690.3 / 19
p0 1101 ± 1.731
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

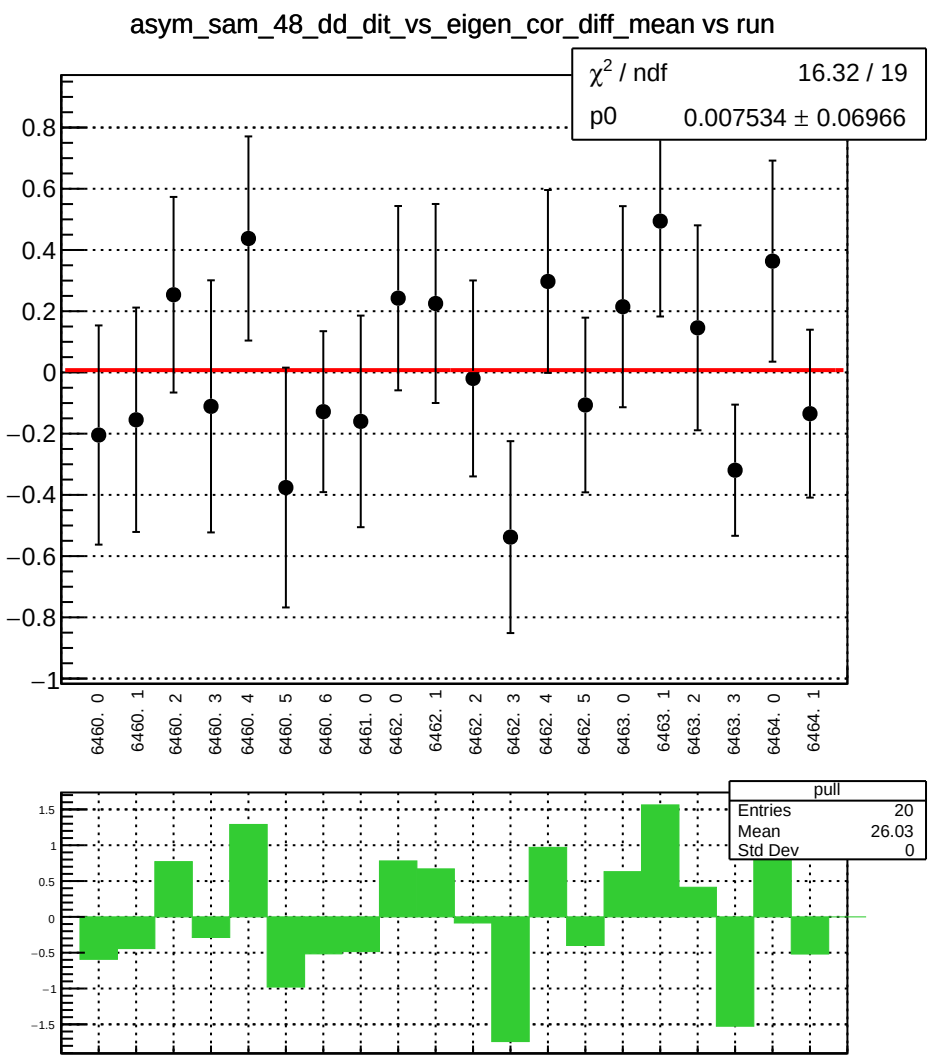

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 18.15 / 19
p0 2.532e−14 ± 6.921e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.212
Std Dev 3.496
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.1741
Std Dev 0.9366
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

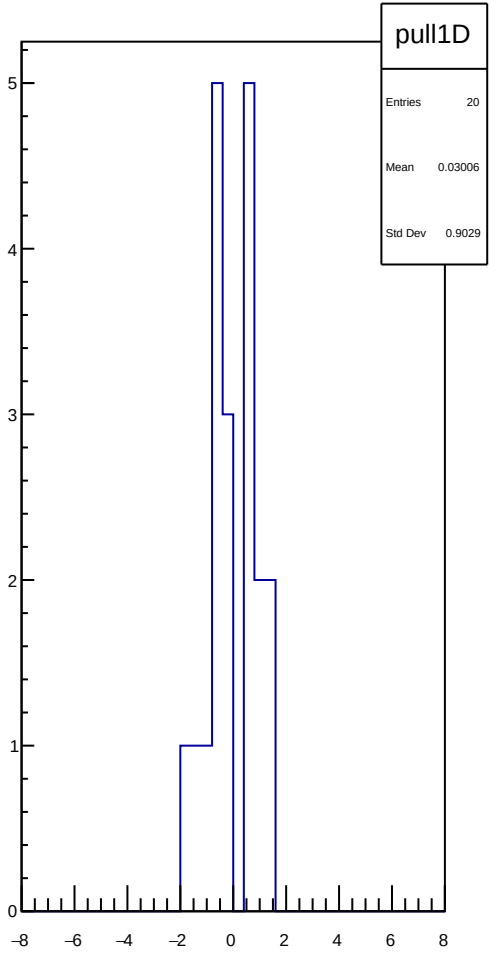

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.991e+05 / 19
p0 1.594e−11 ± 4.894e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

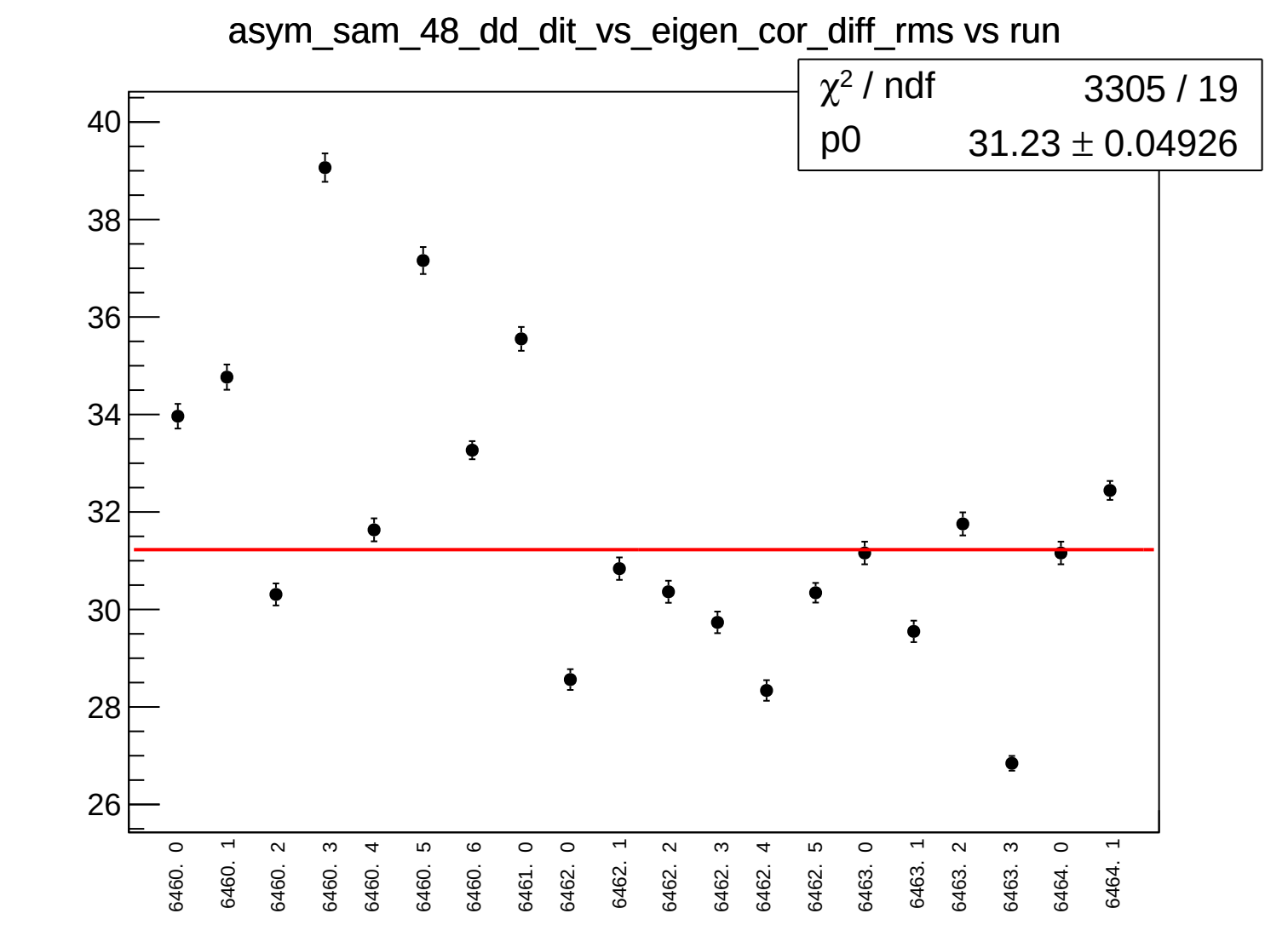

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 16.32 / 19
p0 0.007534 ± 0.06966
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

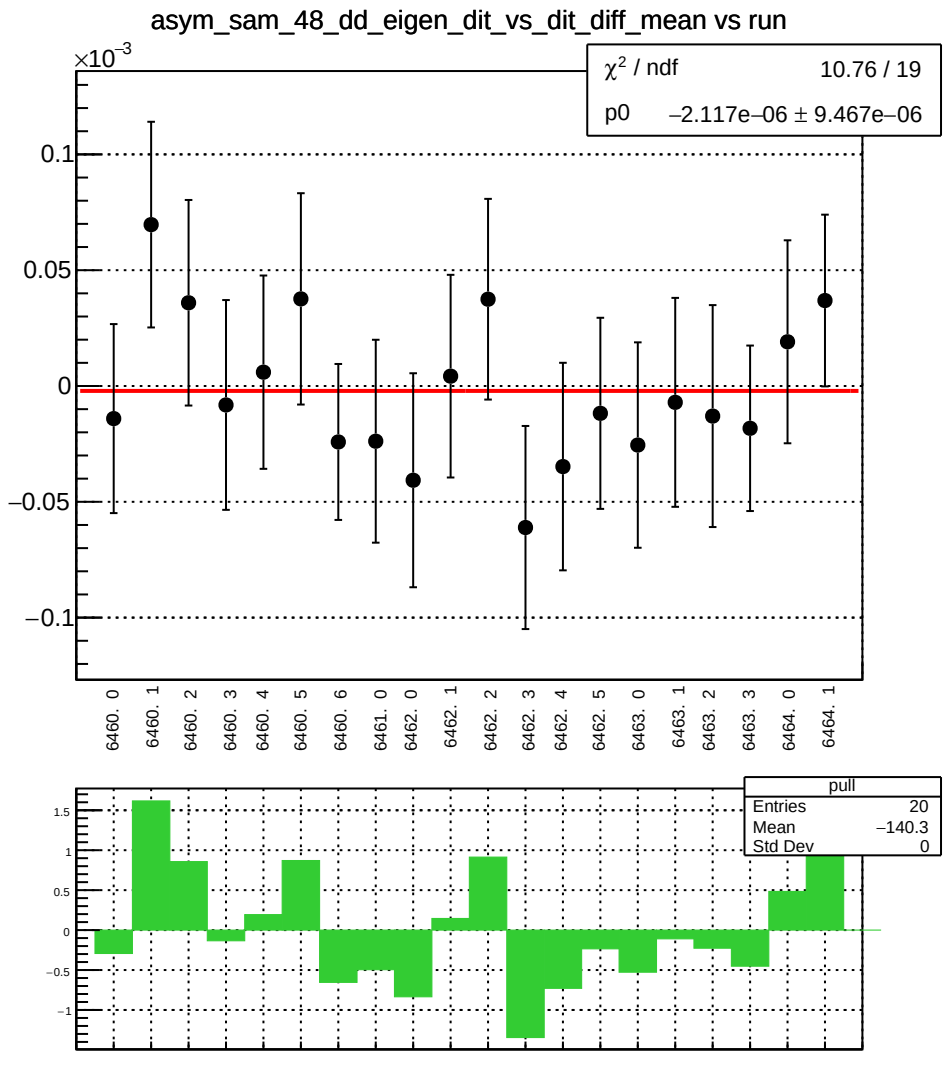

pull1D
Entries 20
Mean 0.03006
Std Dev 0.9029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

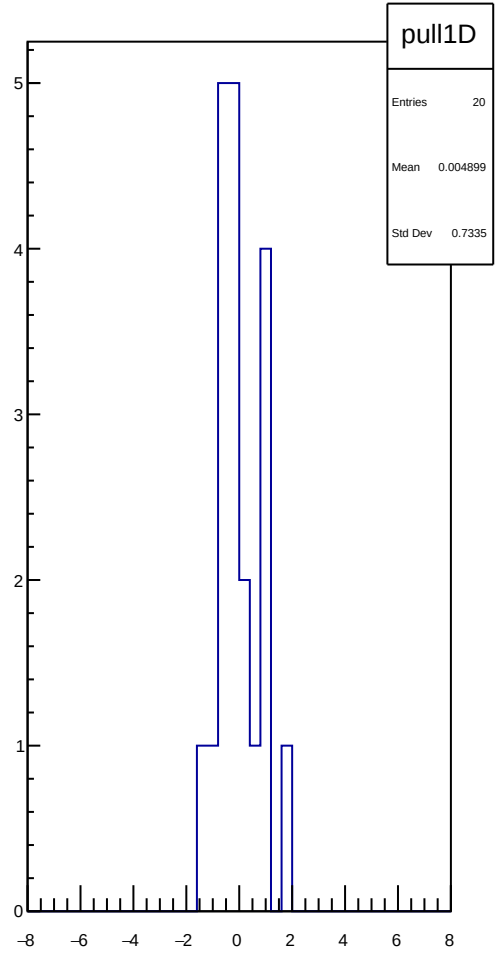

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3305 / 19
p0 31.23 ± 0.04926
40
38
36
34
32
30
28
26
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

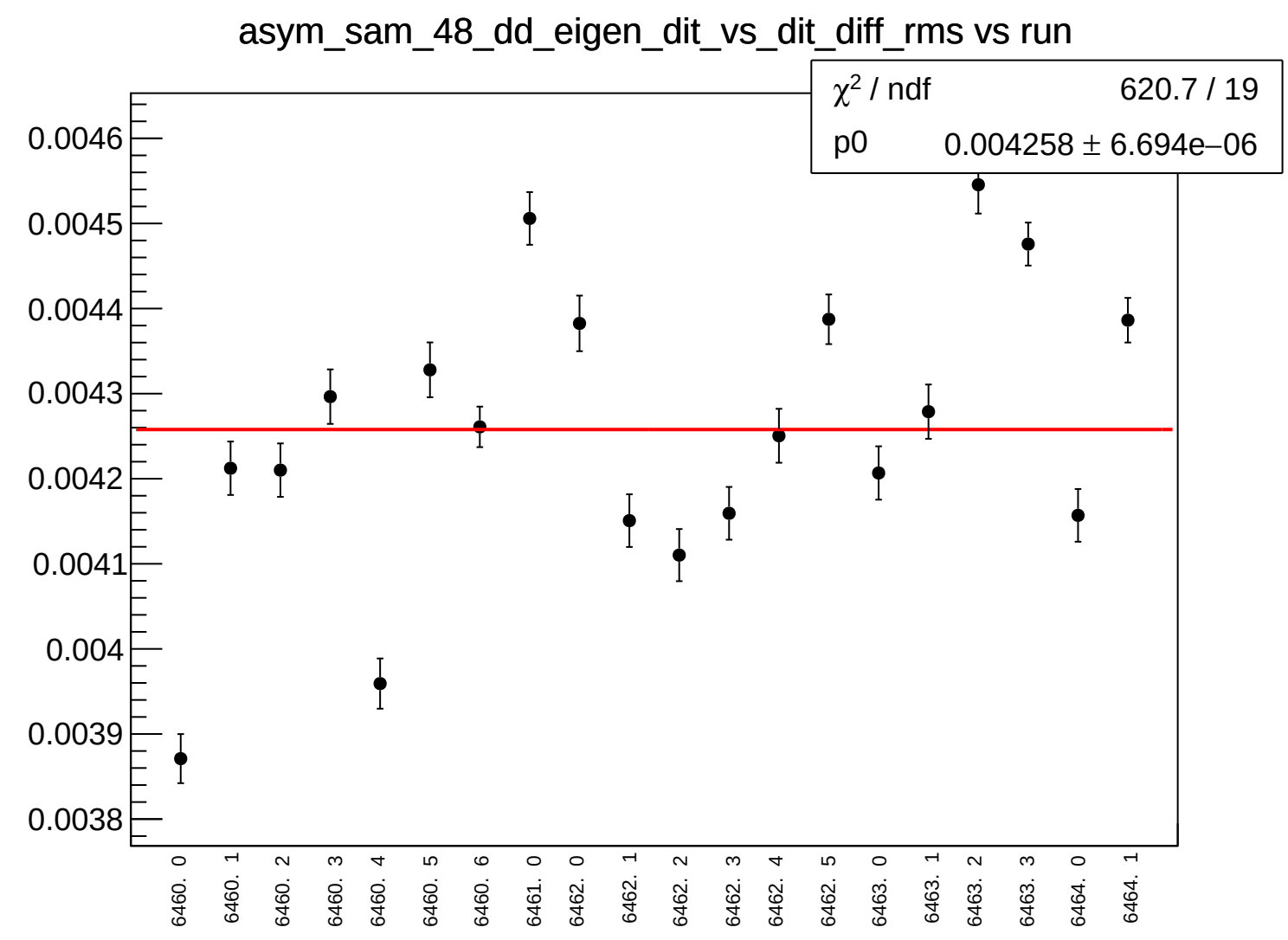

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.32 / 19
p0 0.007534 ± 0.06966
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

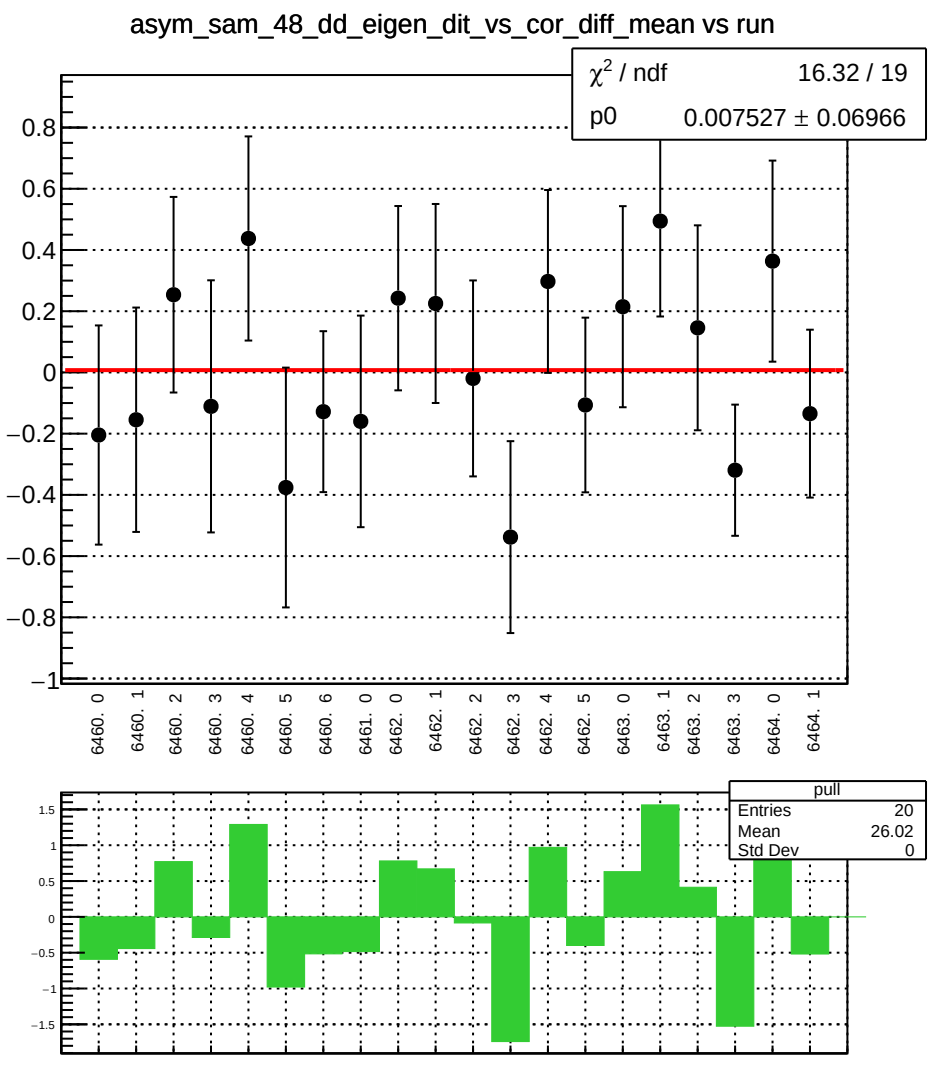

pull1D
Entries 20
Mean 0.03006
Std Dev 0.9029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

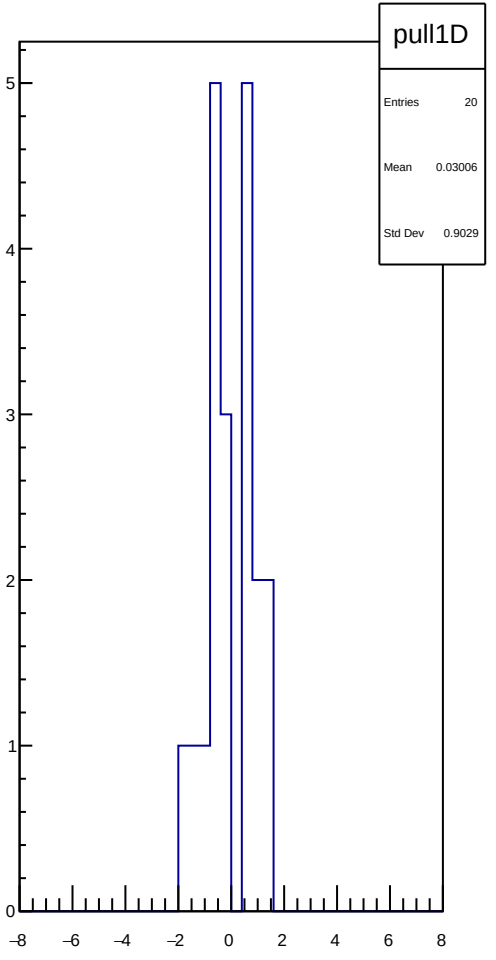

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3305 / 19
p0 31.23 ± 0.04926
40
38
36
34
32
30
28
26
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

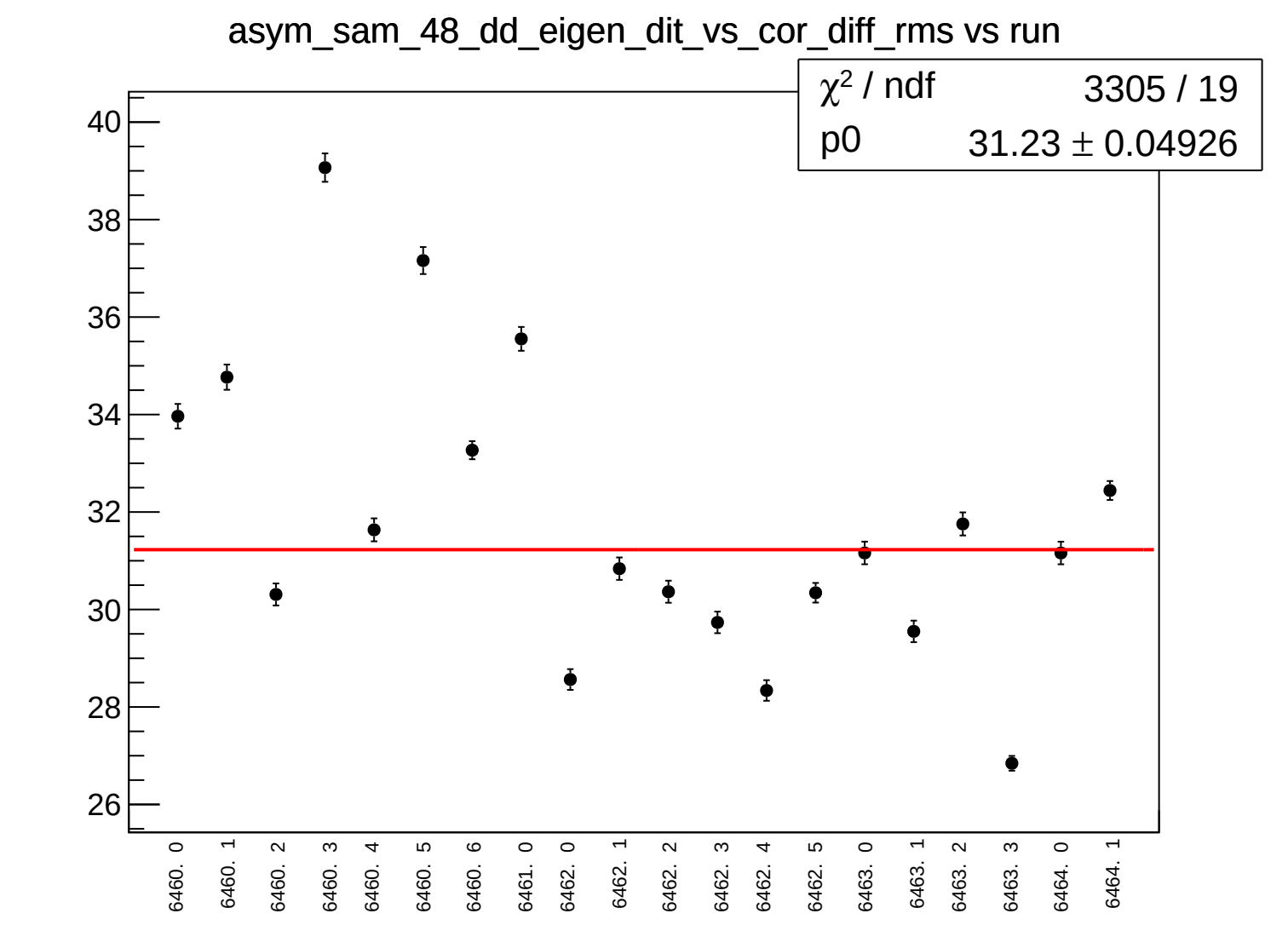

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 10.76 / 19
p0 −2.117e−06 ± 9.467e−06
0.1
0.05
0
−0.05
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −140.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

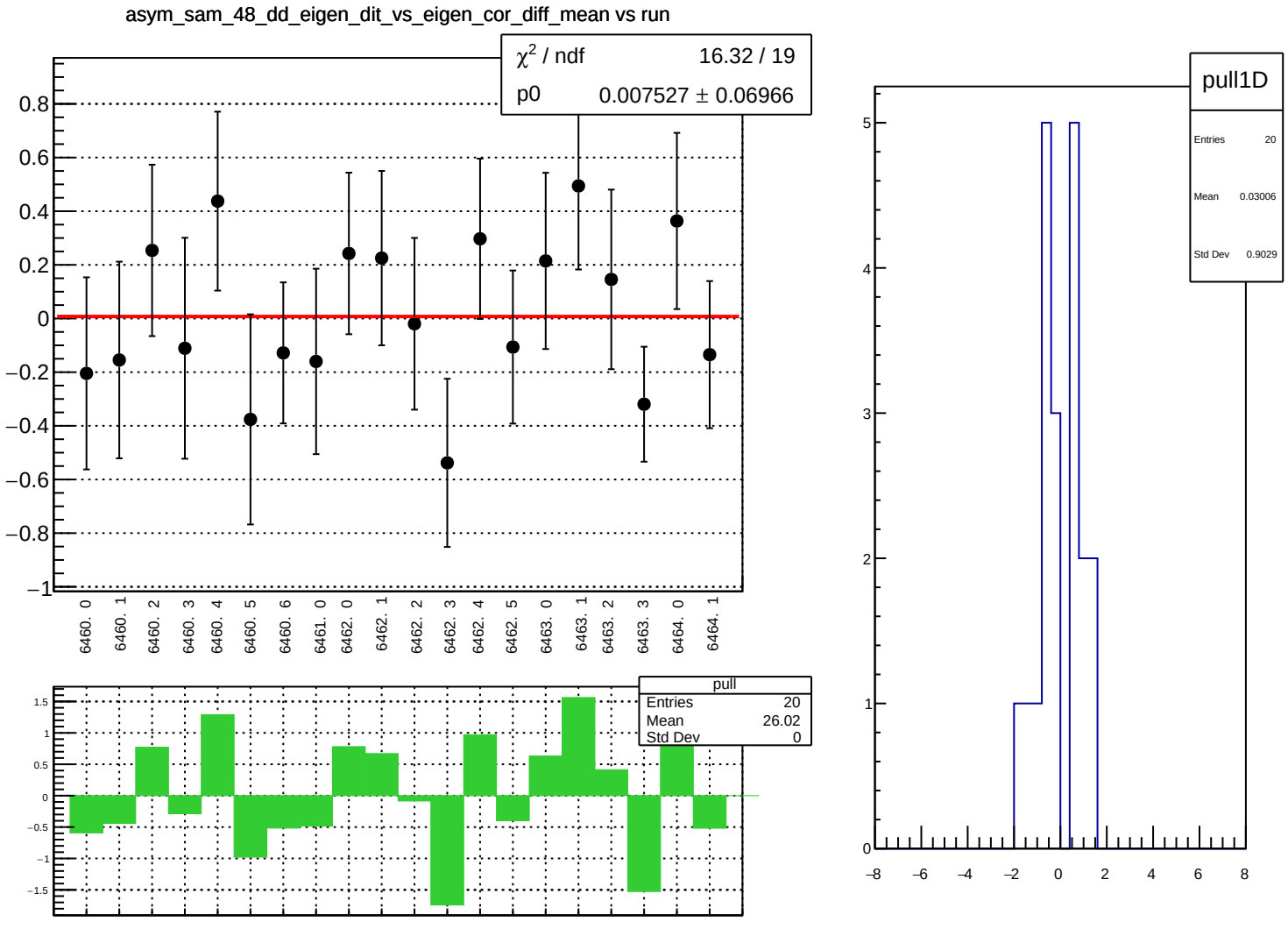

pull1D
Entries 20
Mean 0.004899
Std Dev 0.7335
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

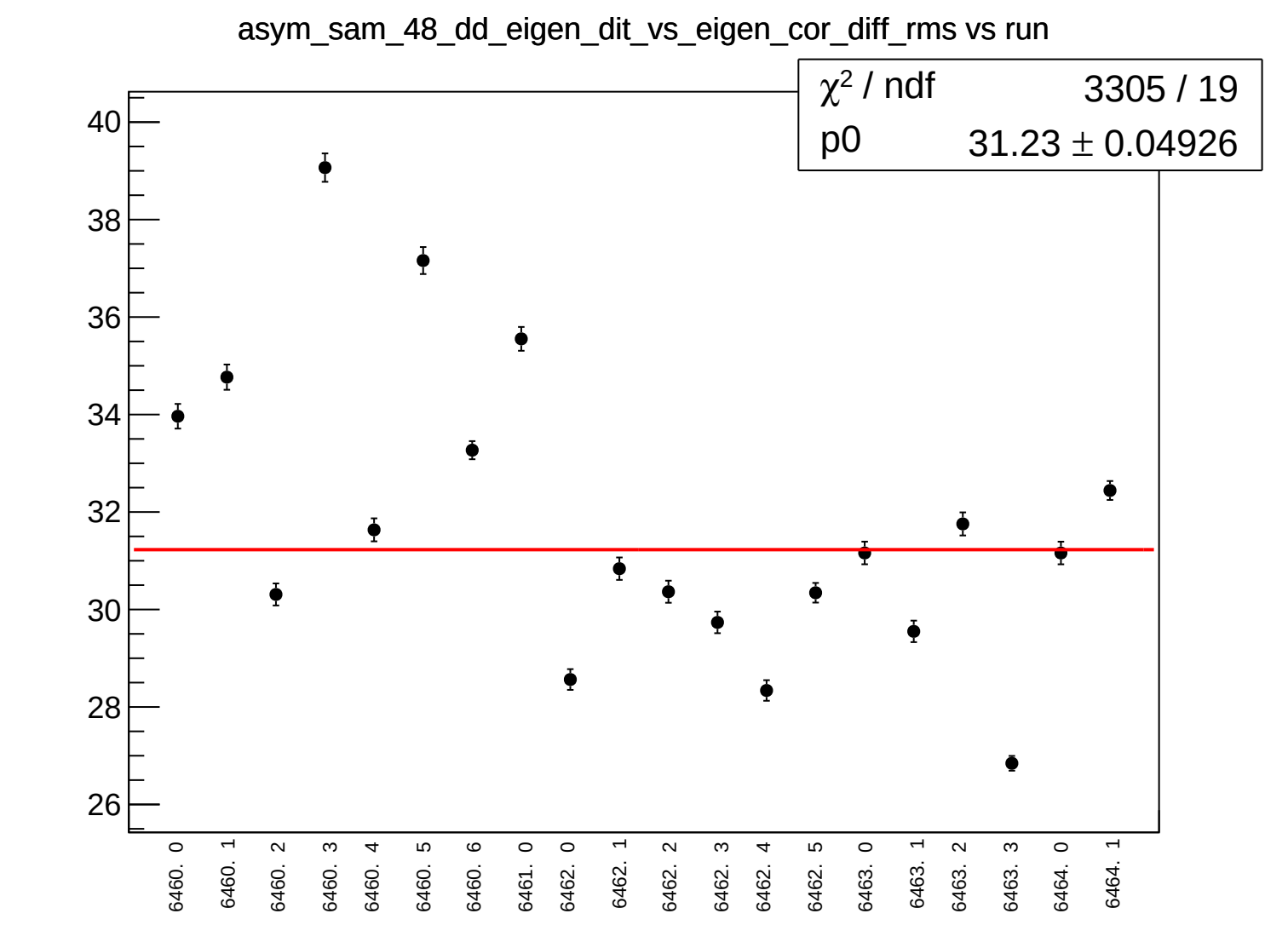

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 620.7 / 19
p0 0.004258 ± 6.694e−06
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

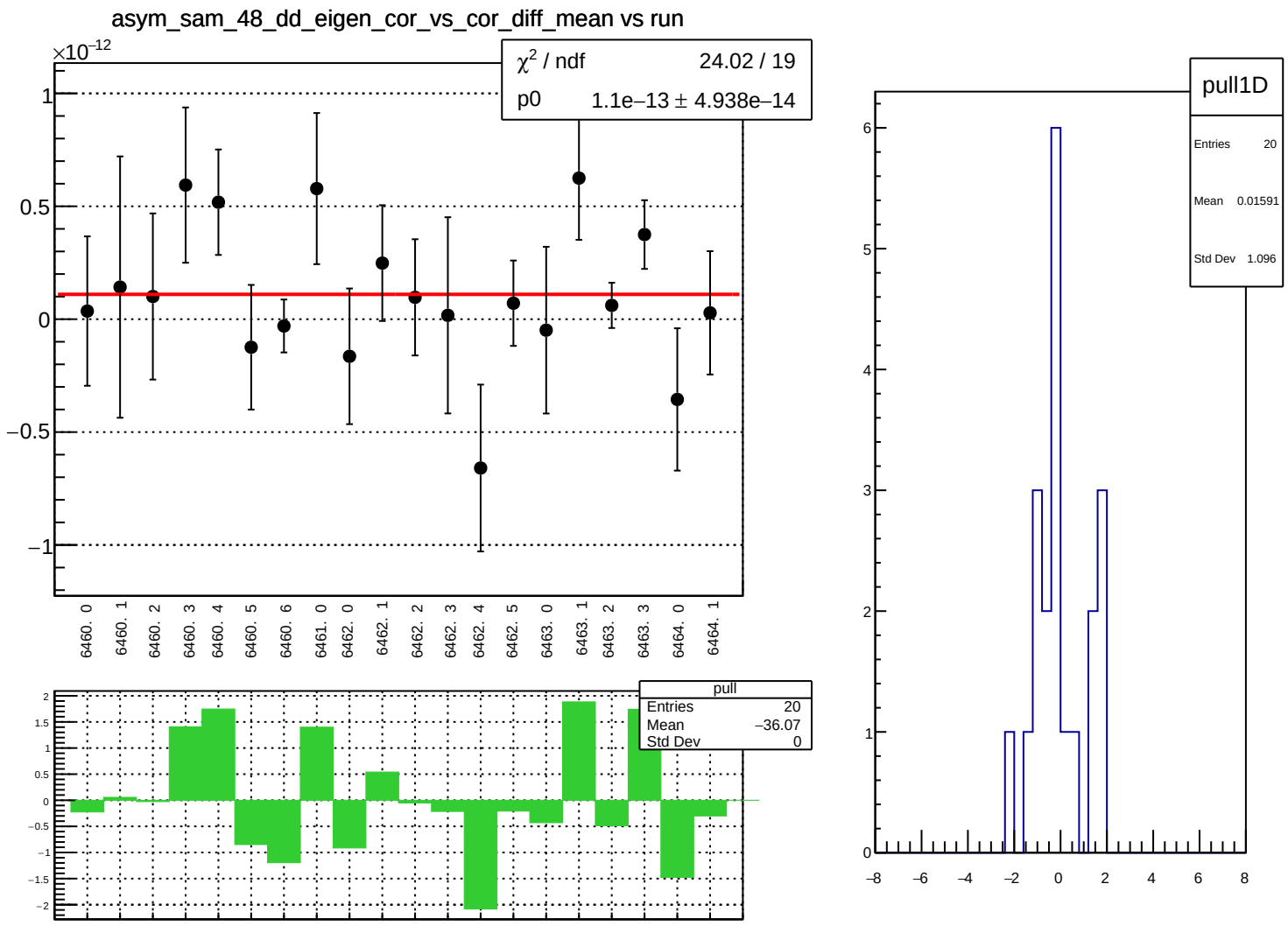

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.32 / 19
p0 0.007527 ± 0.06966
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

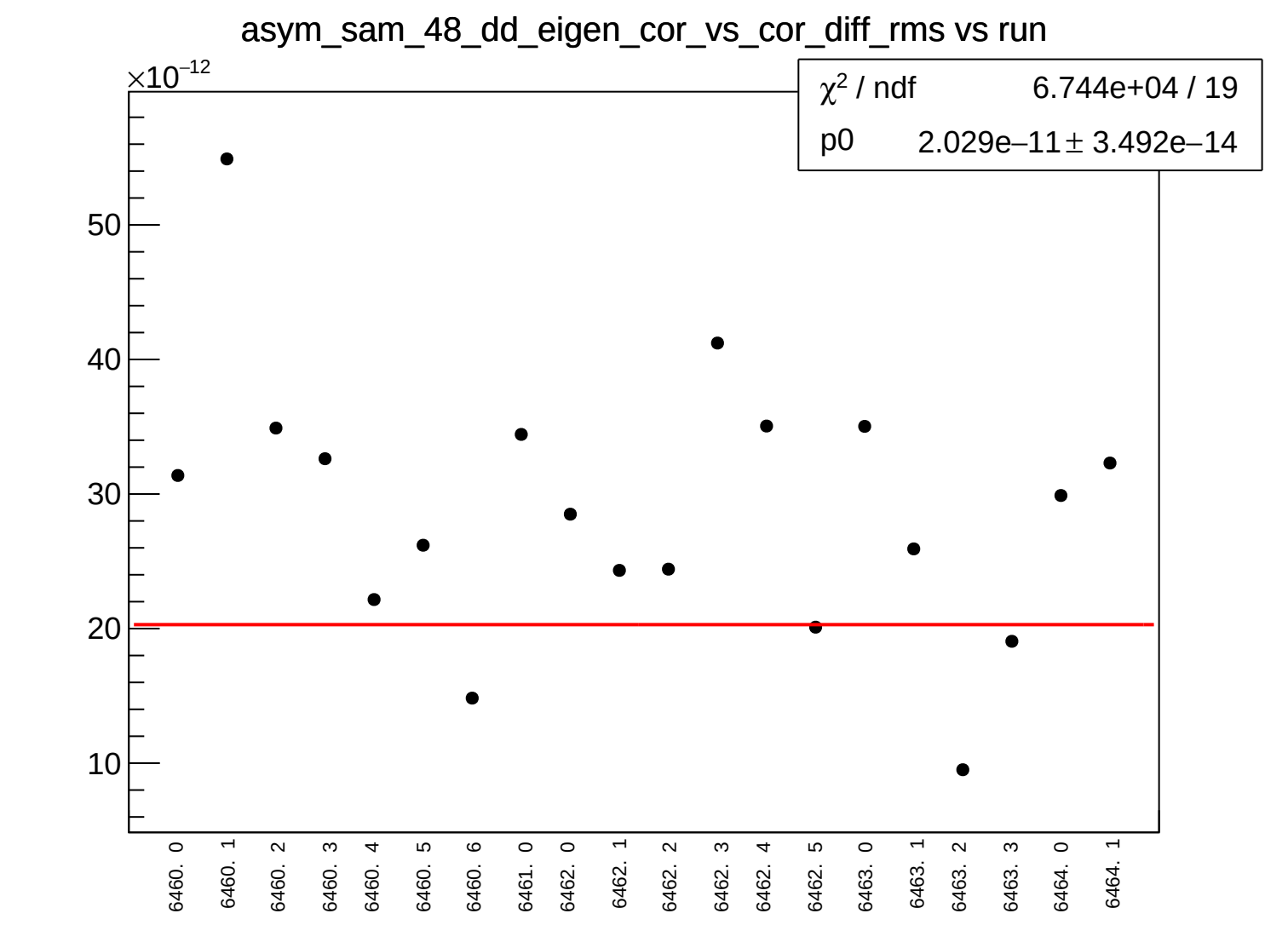

pull1D
Entries 20
Mean 0.03006
Std Dev 0.9029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

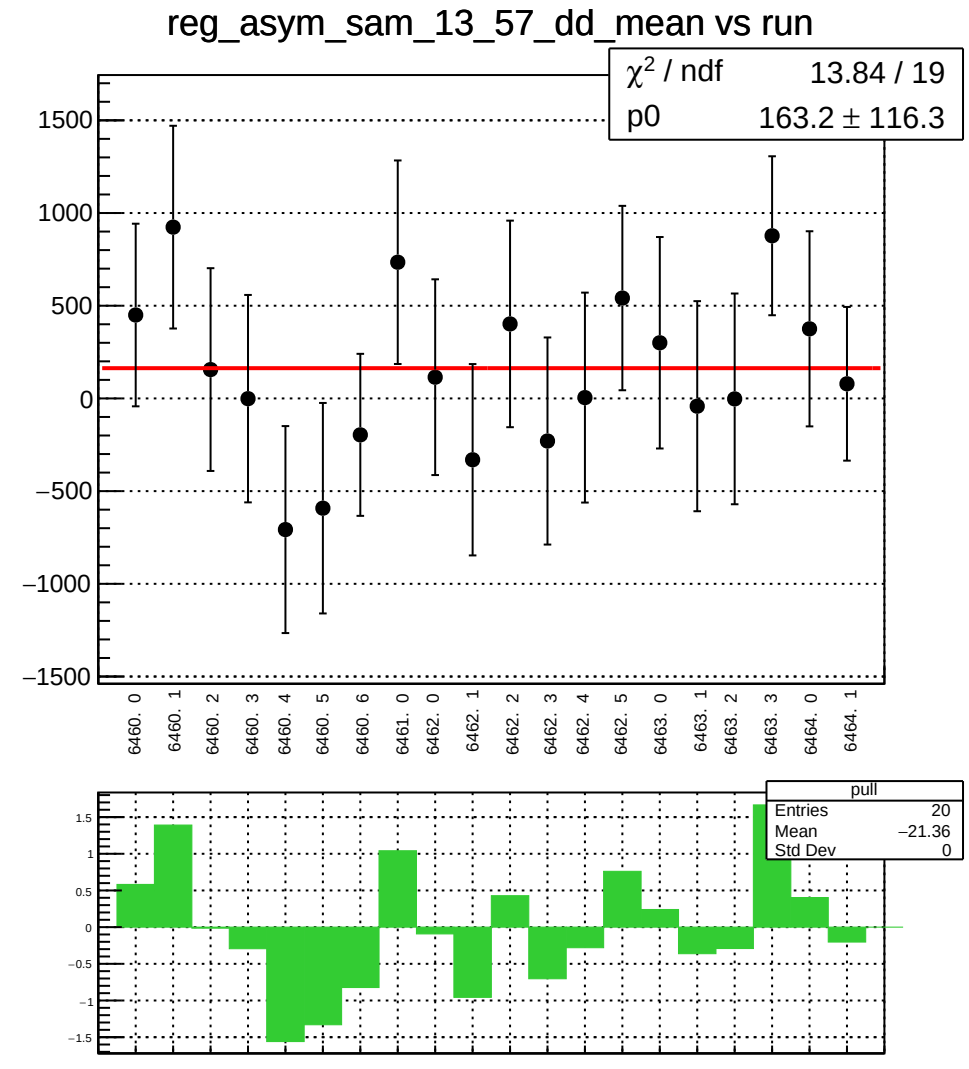

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3305 / 19
p0 31.23 ± 0.04926
40
38
36
34
32
30
28
26
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

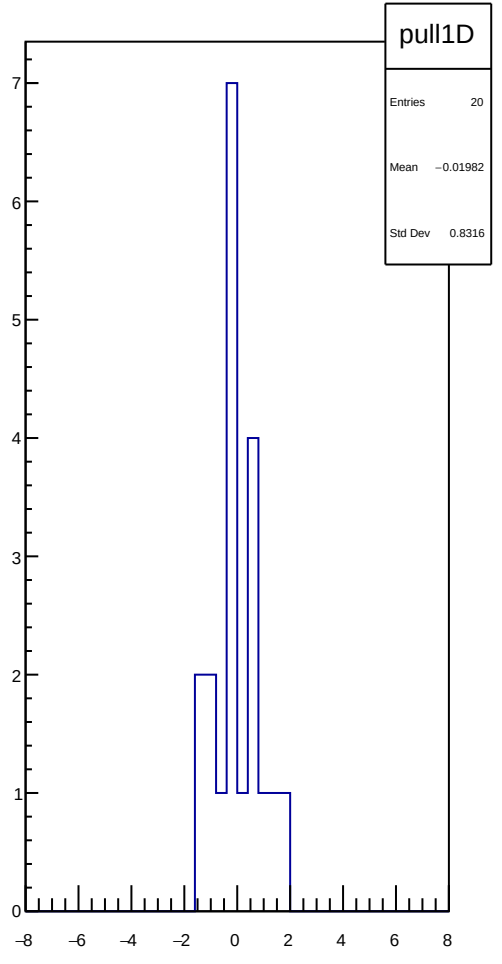

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.32 / 19
p0 0.007527 ± 0.06966
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03006
Std Dev 0.9029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

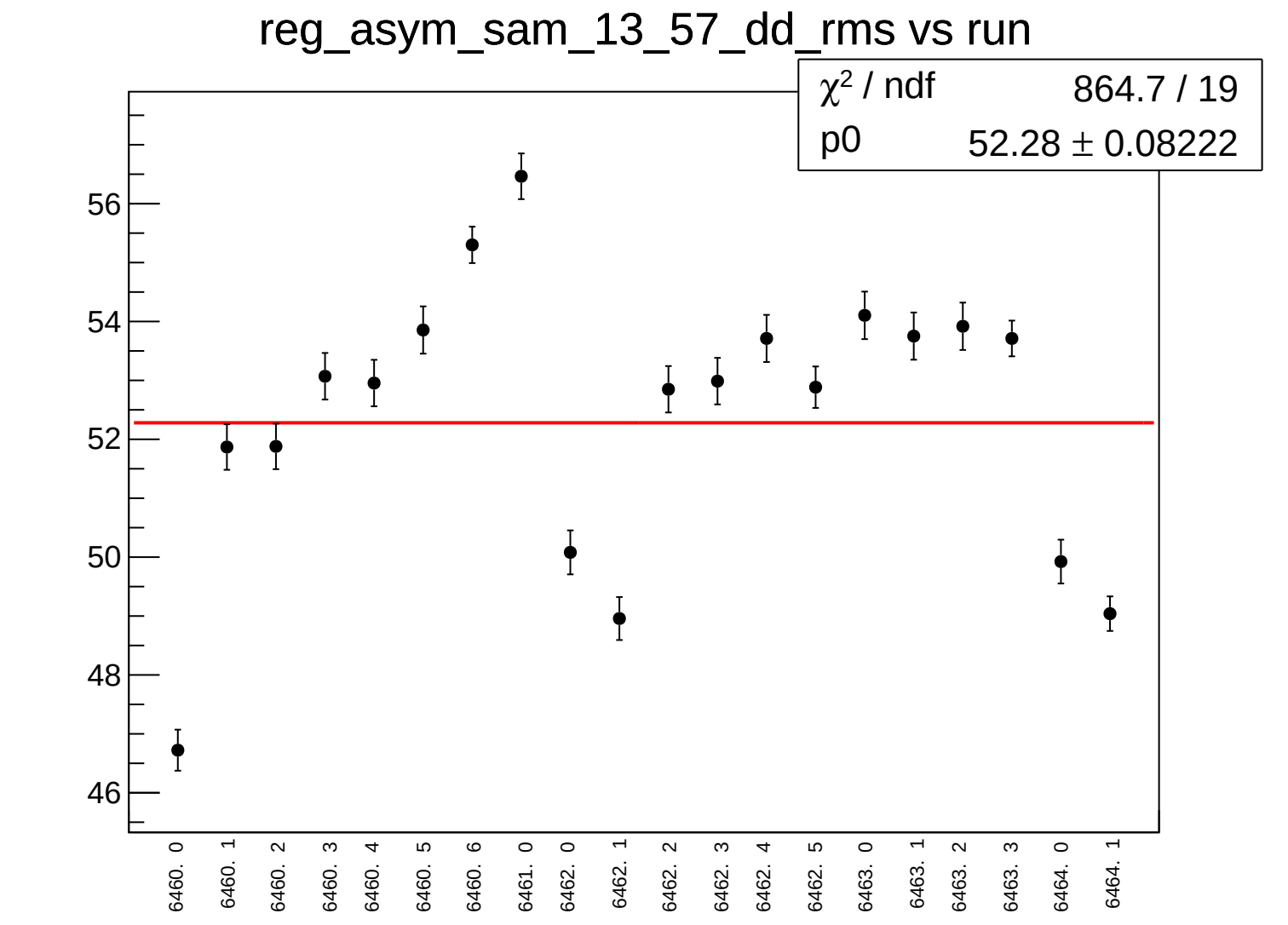

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3305 / 19
p0 31.23 ± 0.04926
40
38
36
34
32
30
28
26
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

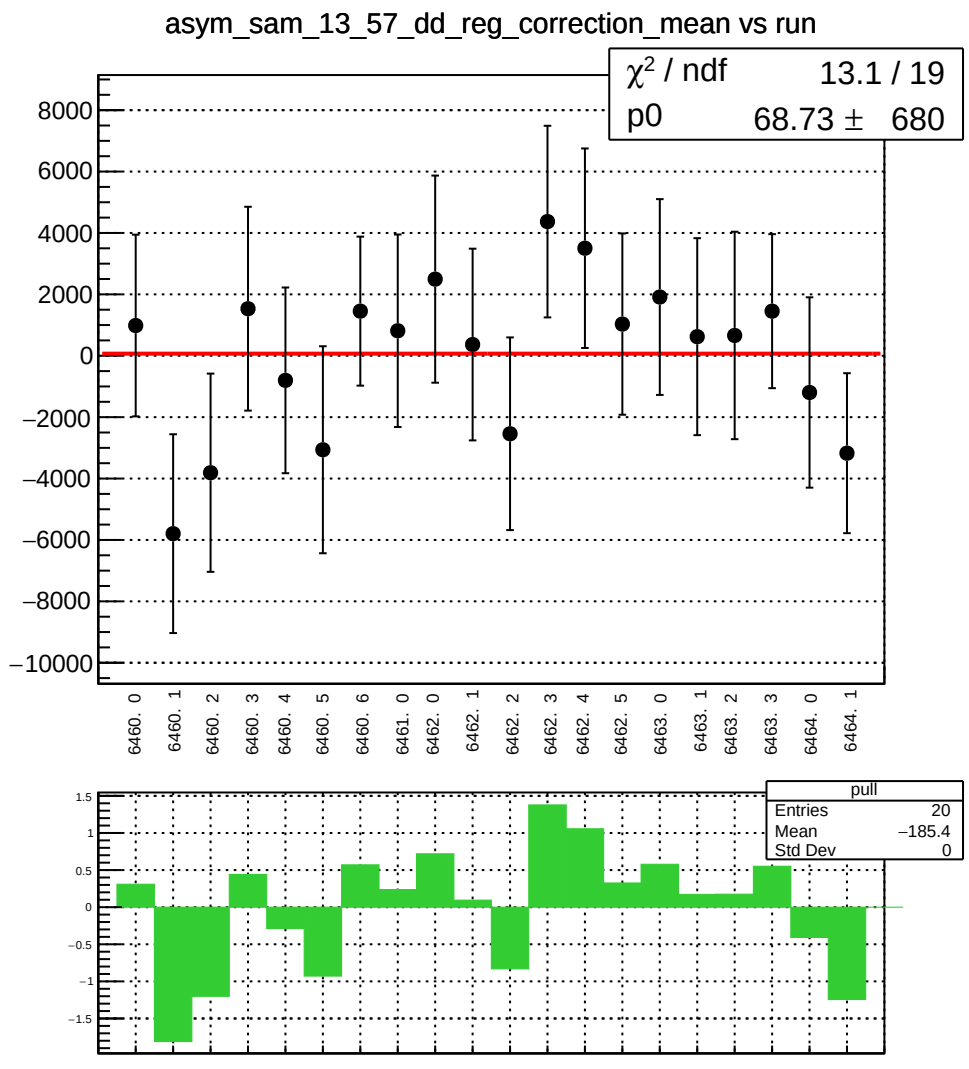

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.02 / 19
p0 1.1e−13 ± 4.938e−14
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −36.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.01591
Std Dev 1.096
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

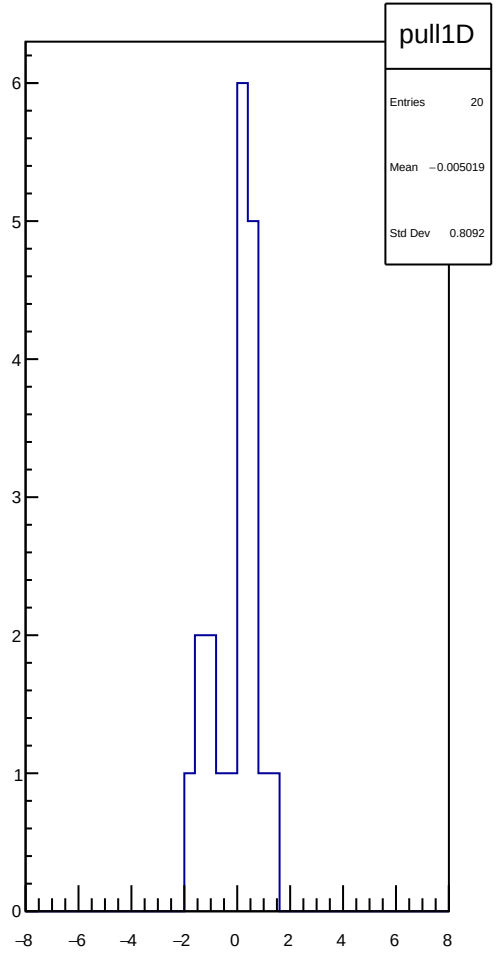

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.744e+04 / 19
p0 2.029e−11 ± 3.492e−14
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

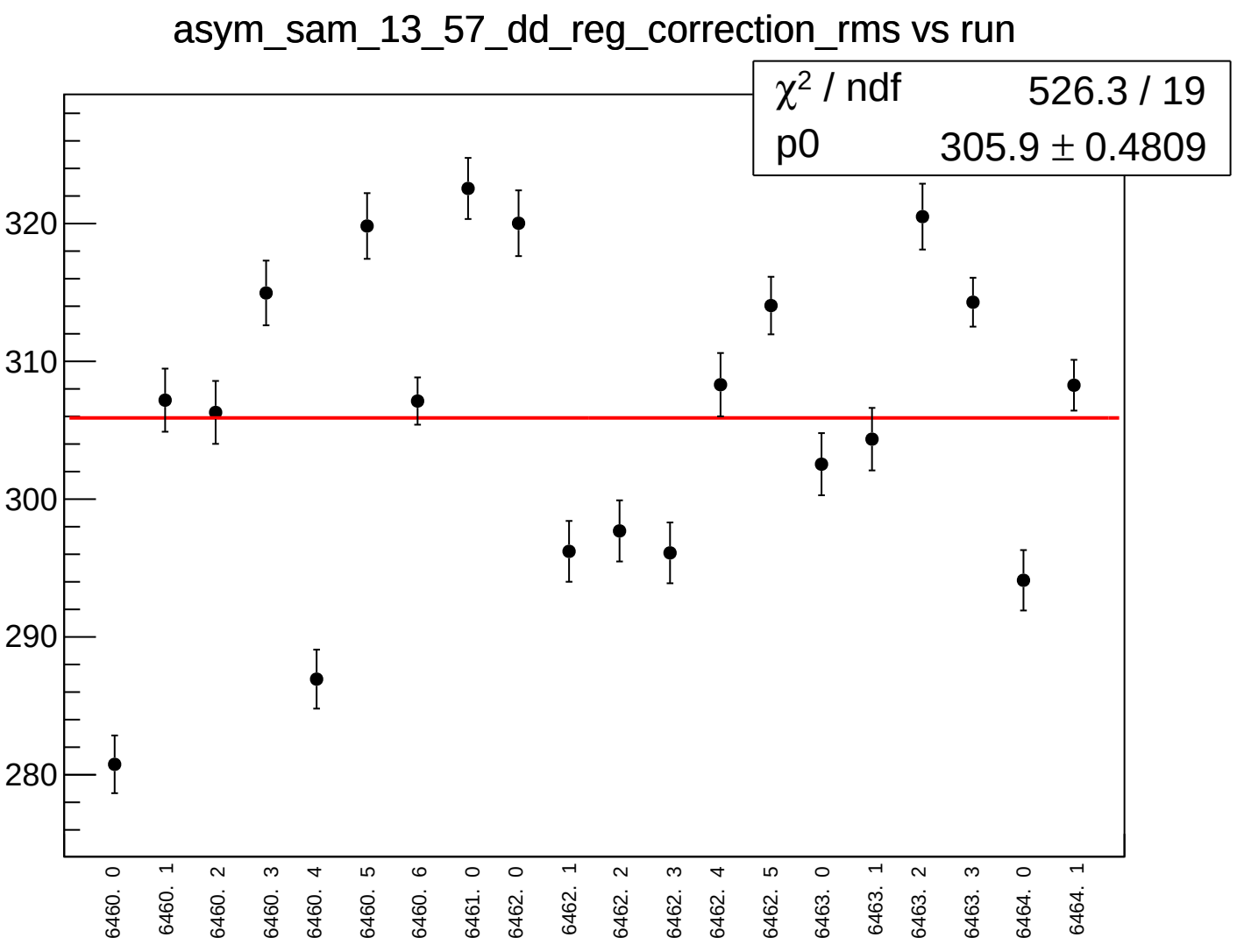

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 13.84 / 19
p0 163.2 ± 116.3
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −21.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

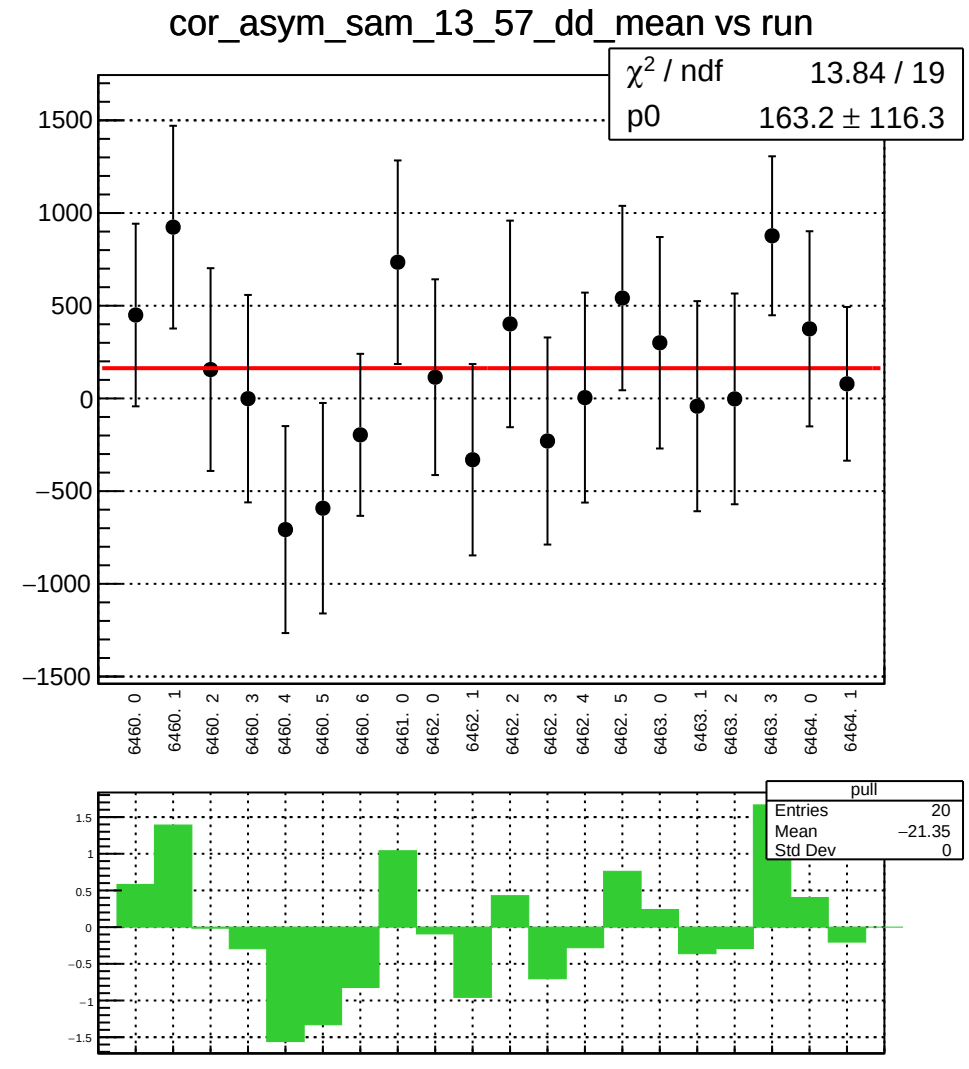

pull1D
Entries 20
Mean −0.01982
Std Dev 0.8316
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

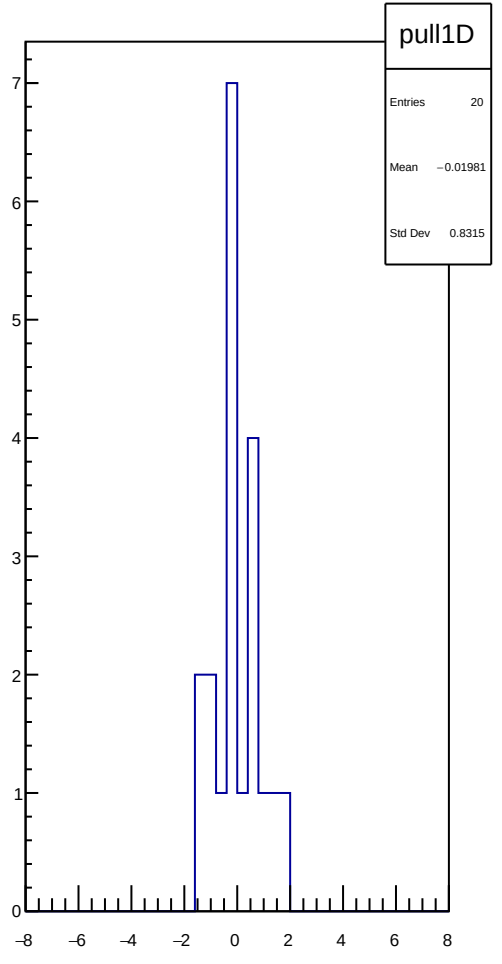

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 864.7 / 19
p0 52.28 ± 0.08222
56
54
52
50
48
46
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

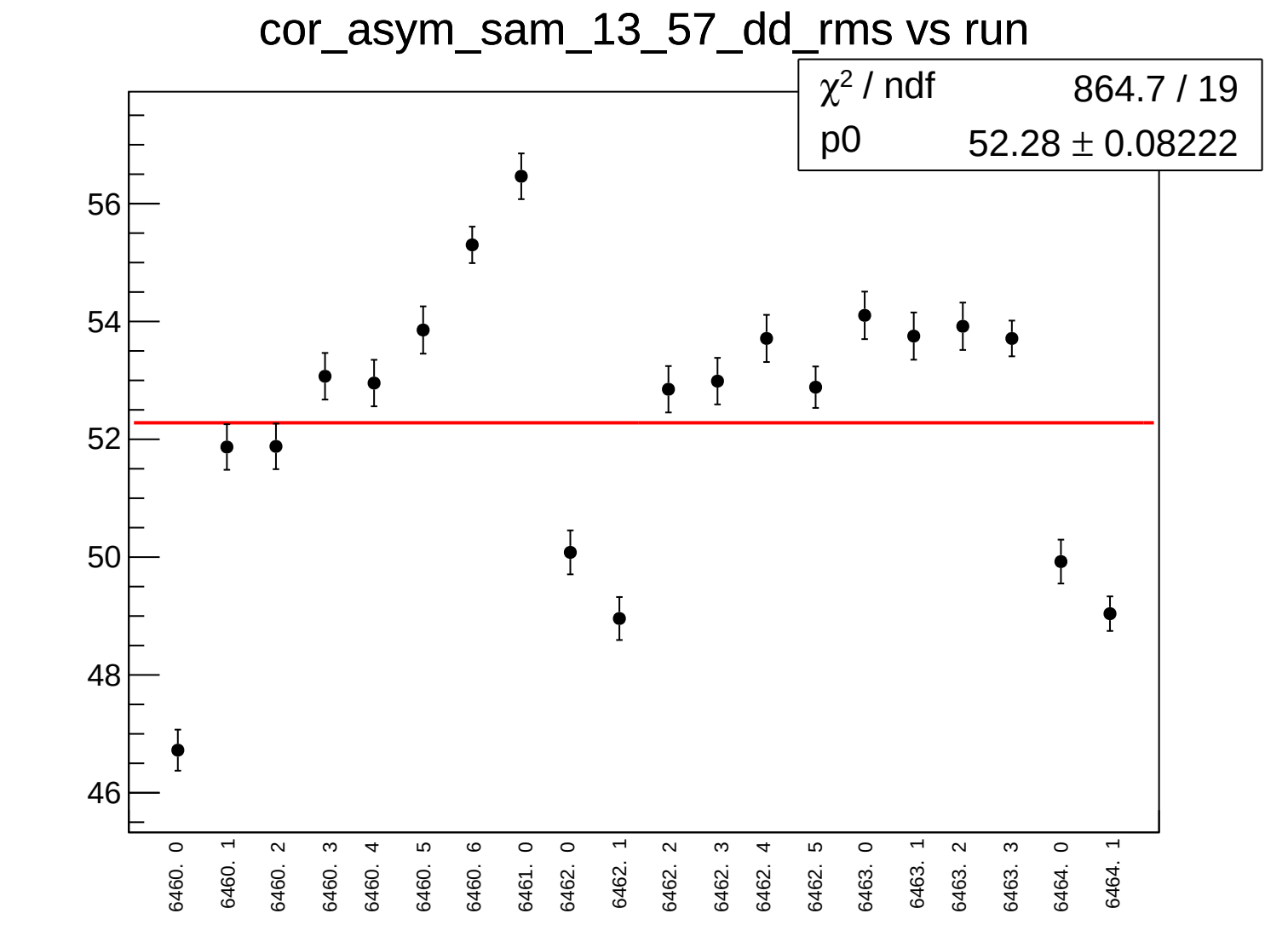

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 13.1 / 19
p0 68.73 ± 680
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −185.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

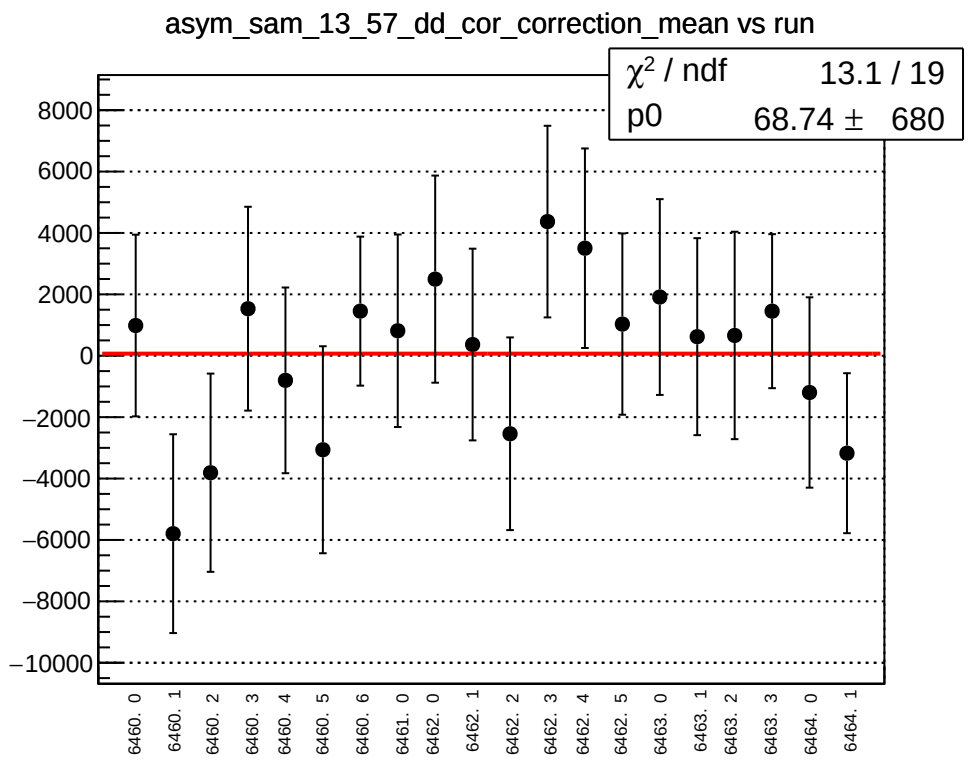

pull1D
Entries 20
Mean −0.005019
Std Dev 0.8092
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

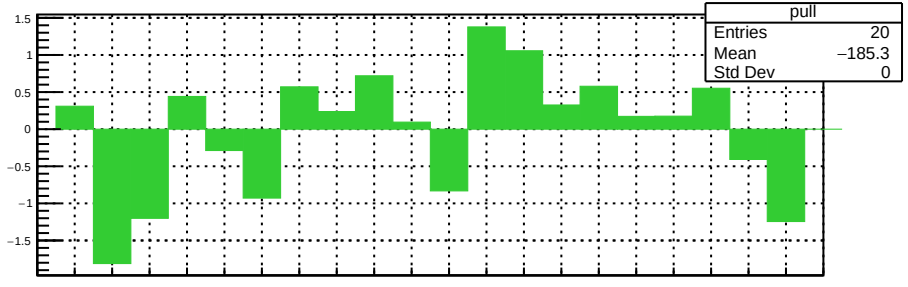

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 526.3 / 19
p0 305.9 ± 0.4809
320
310
300
290
280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

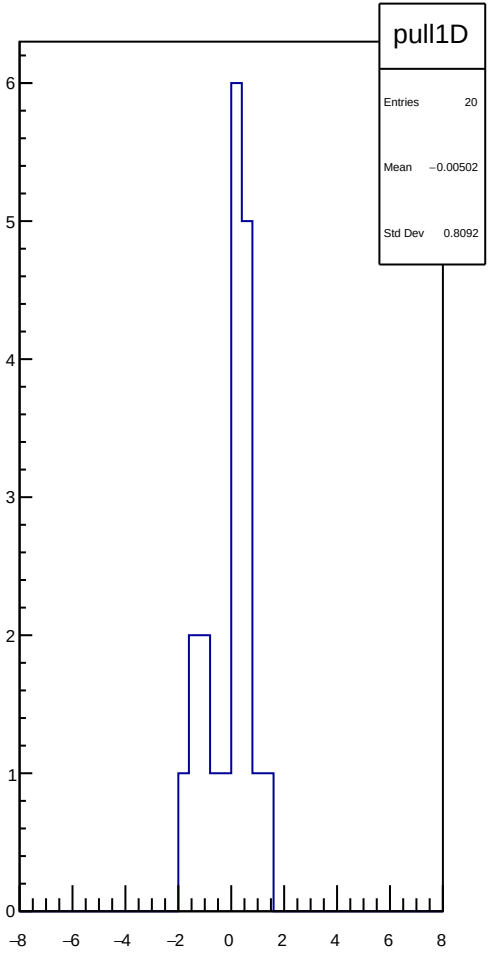

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 13.84 / 19
p0 163.2 ± 116.3
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −21.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

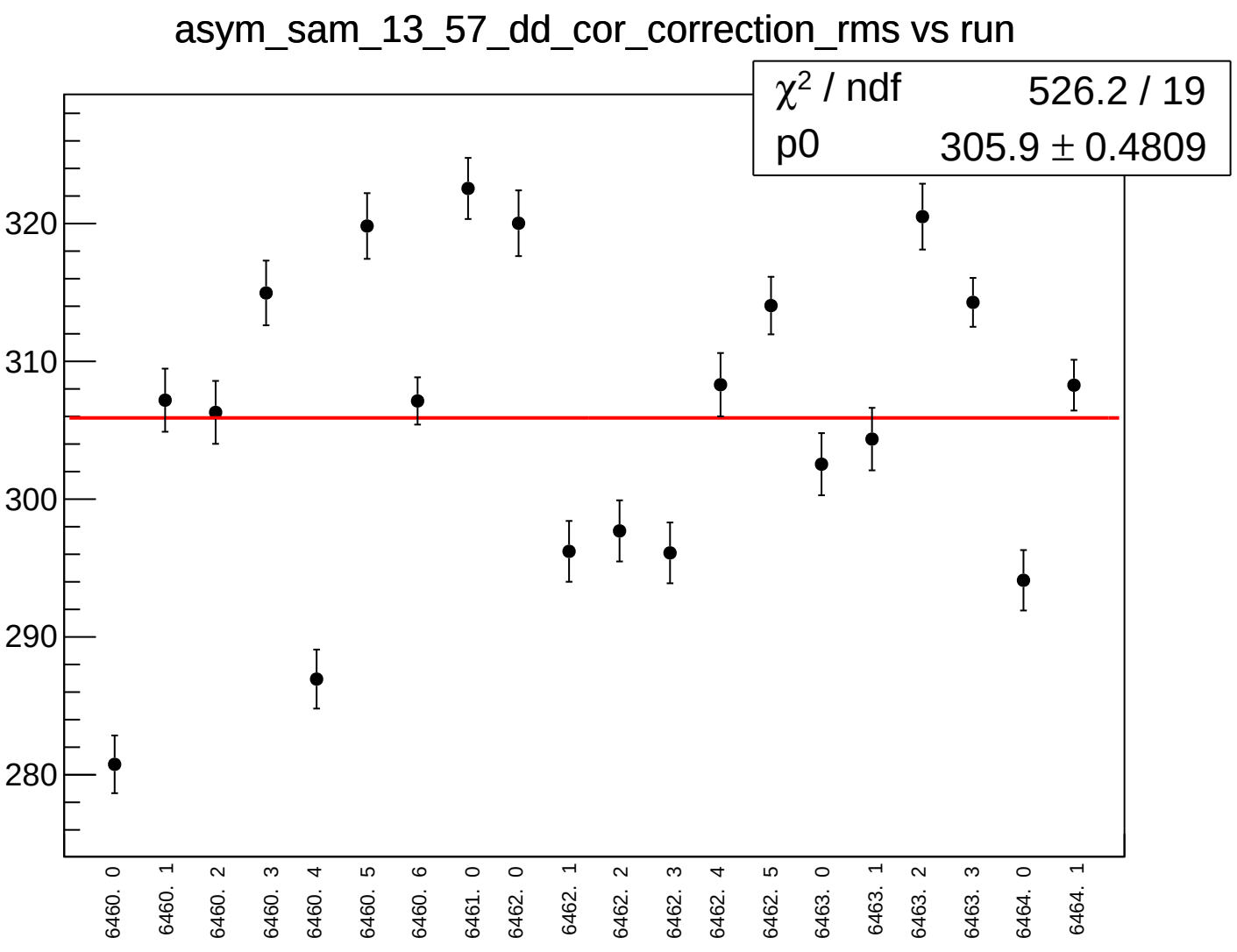

pull1D
Entries 20
Mean −0.01981
Std Dev 0.8315
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

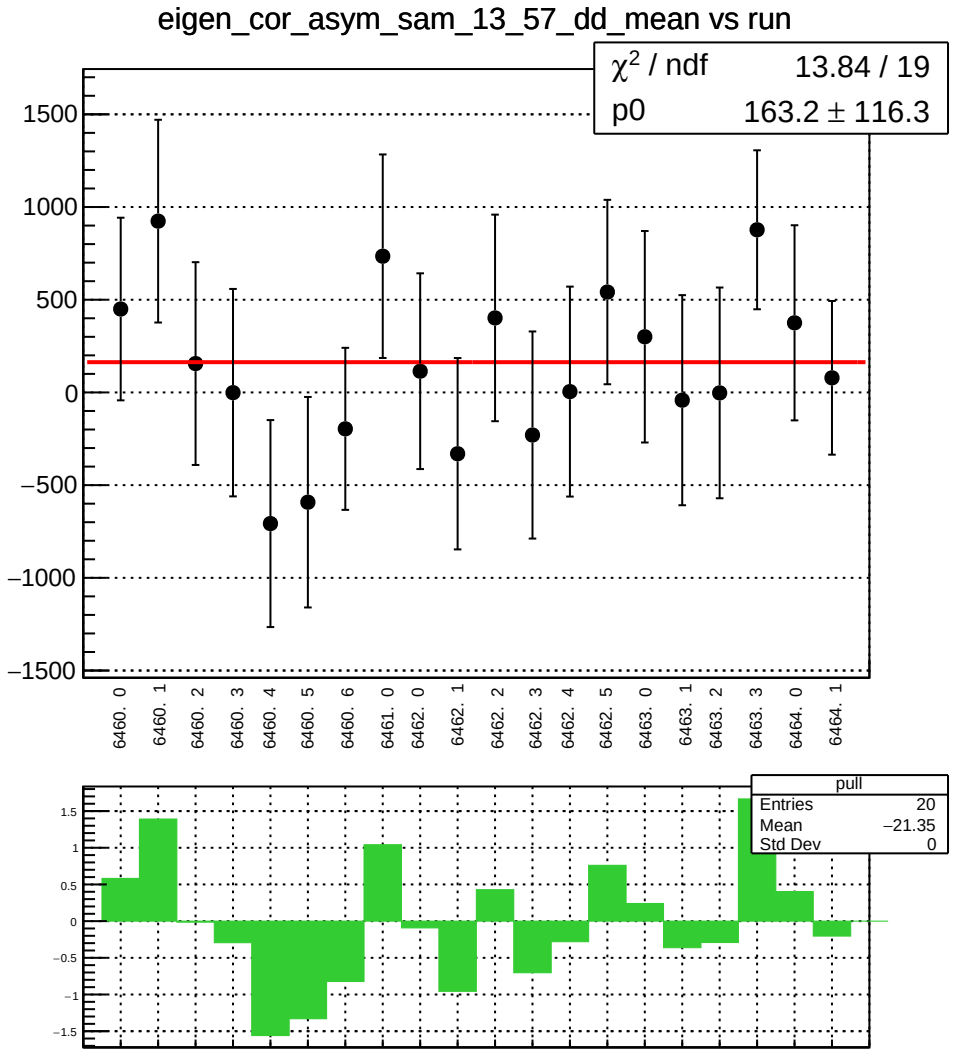

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 864.7 / 19
p0 52.28 ± 0.08222
56
54
52
50
48
46
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

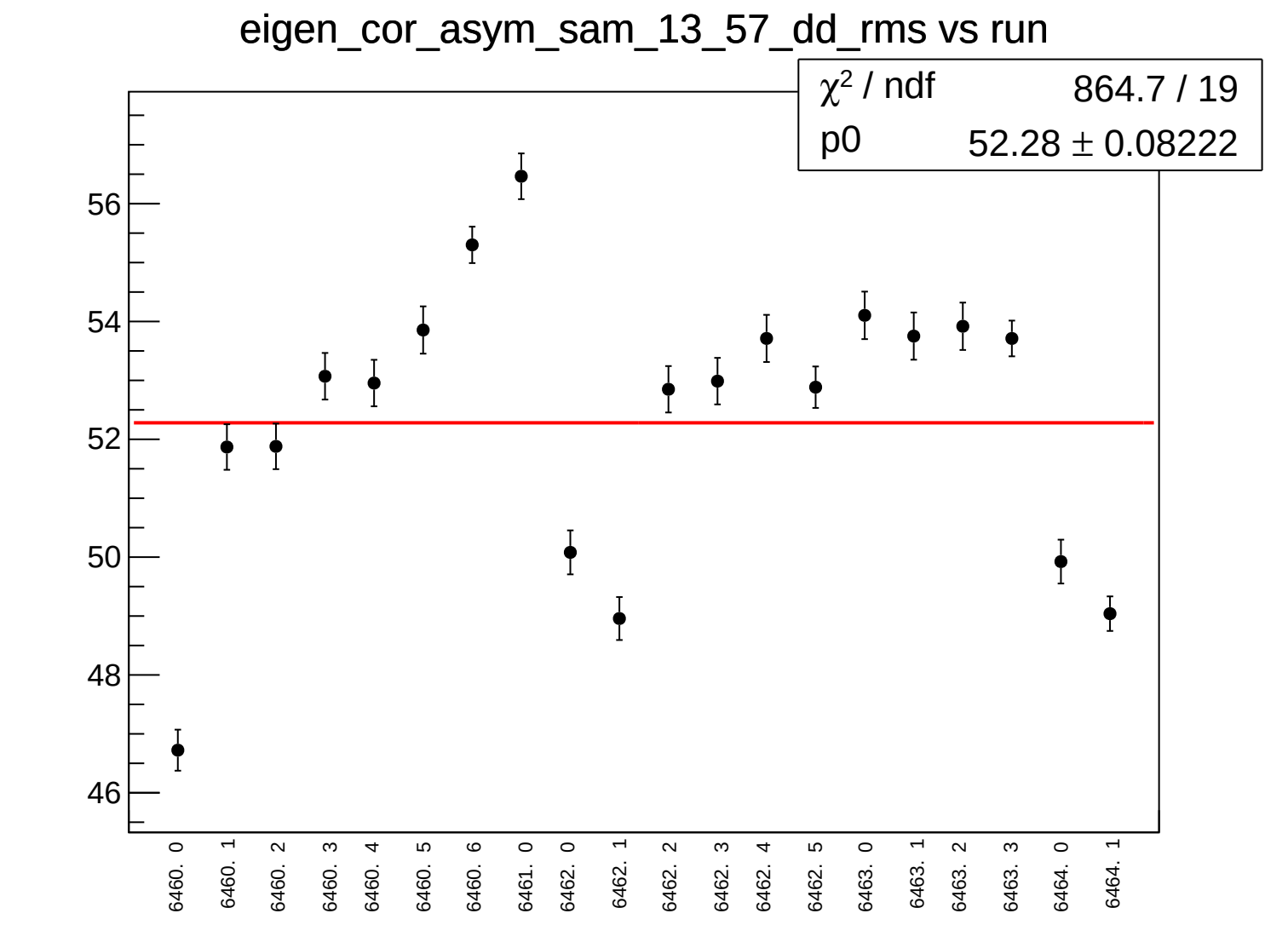

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 13.1 / 19
p0 68.74 ± 680
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

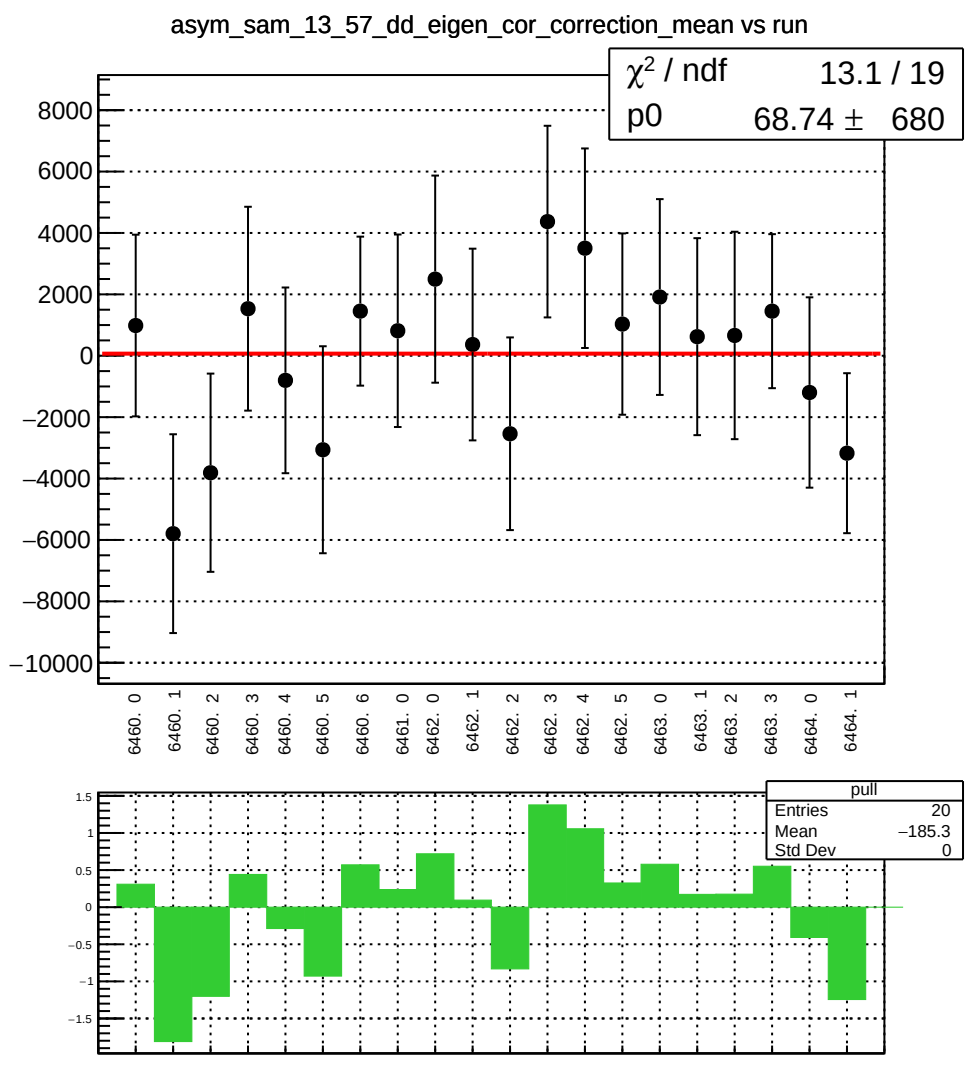

pull
Entries 20
Mean −185.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

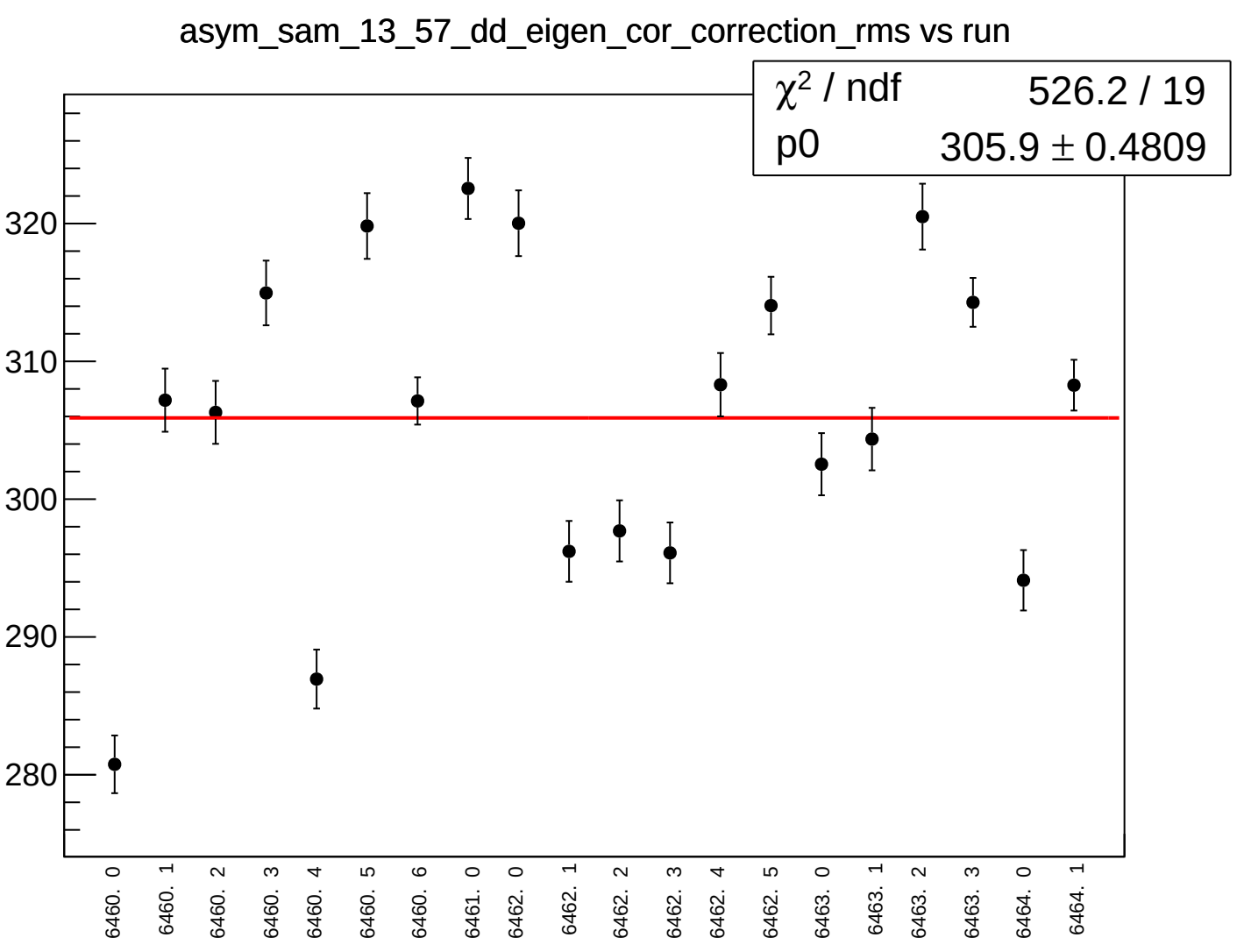

pull1D
Entries 20
Mean −0.00502
Std Dev 0.8092
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

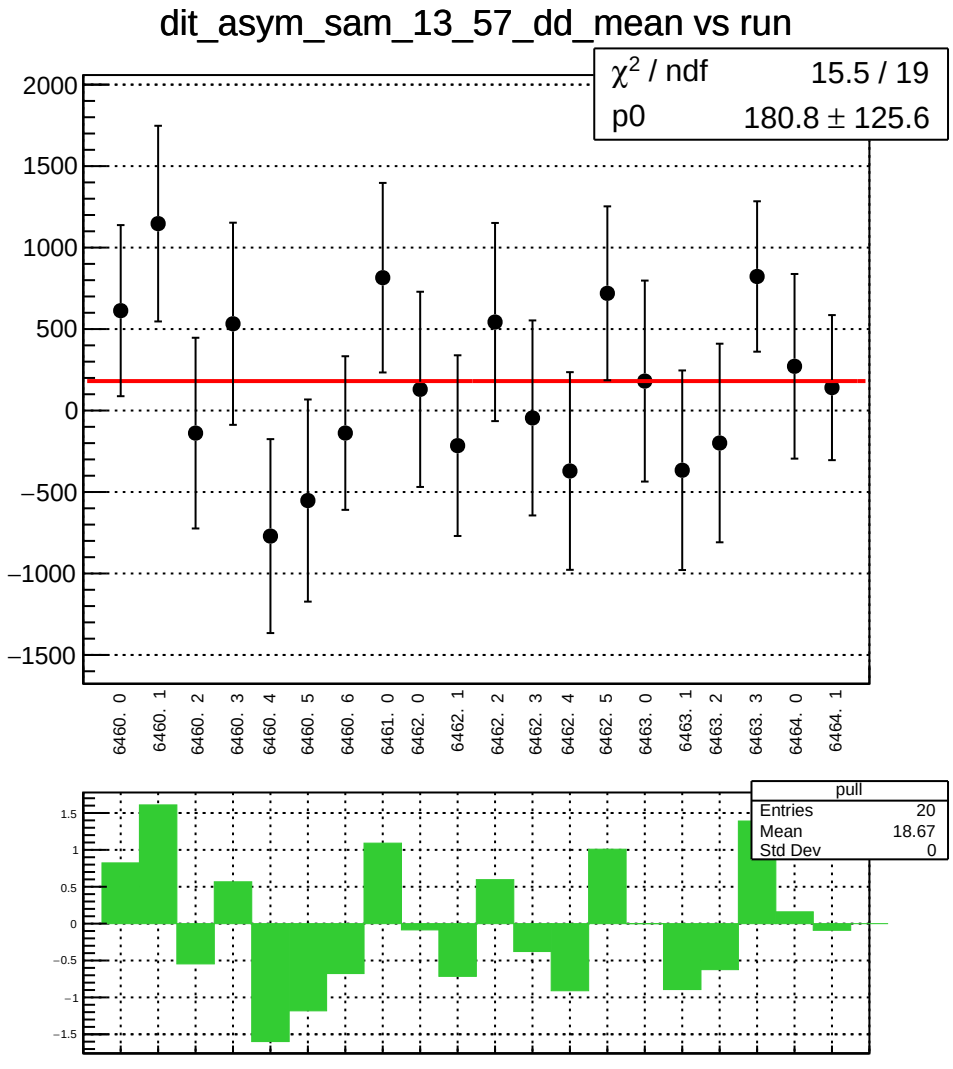

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 526.2 / 19
p0 305.9 ± 0.4809
320
310
300
290
280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

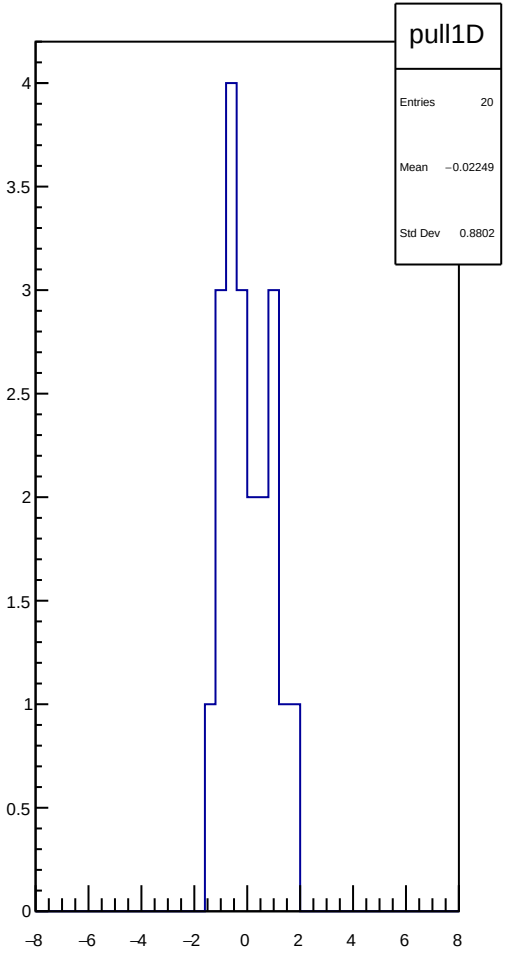

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 13.84 / 19
p0 163.2 ± 116.3
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −21.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01981
Std Dev 0.8315
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

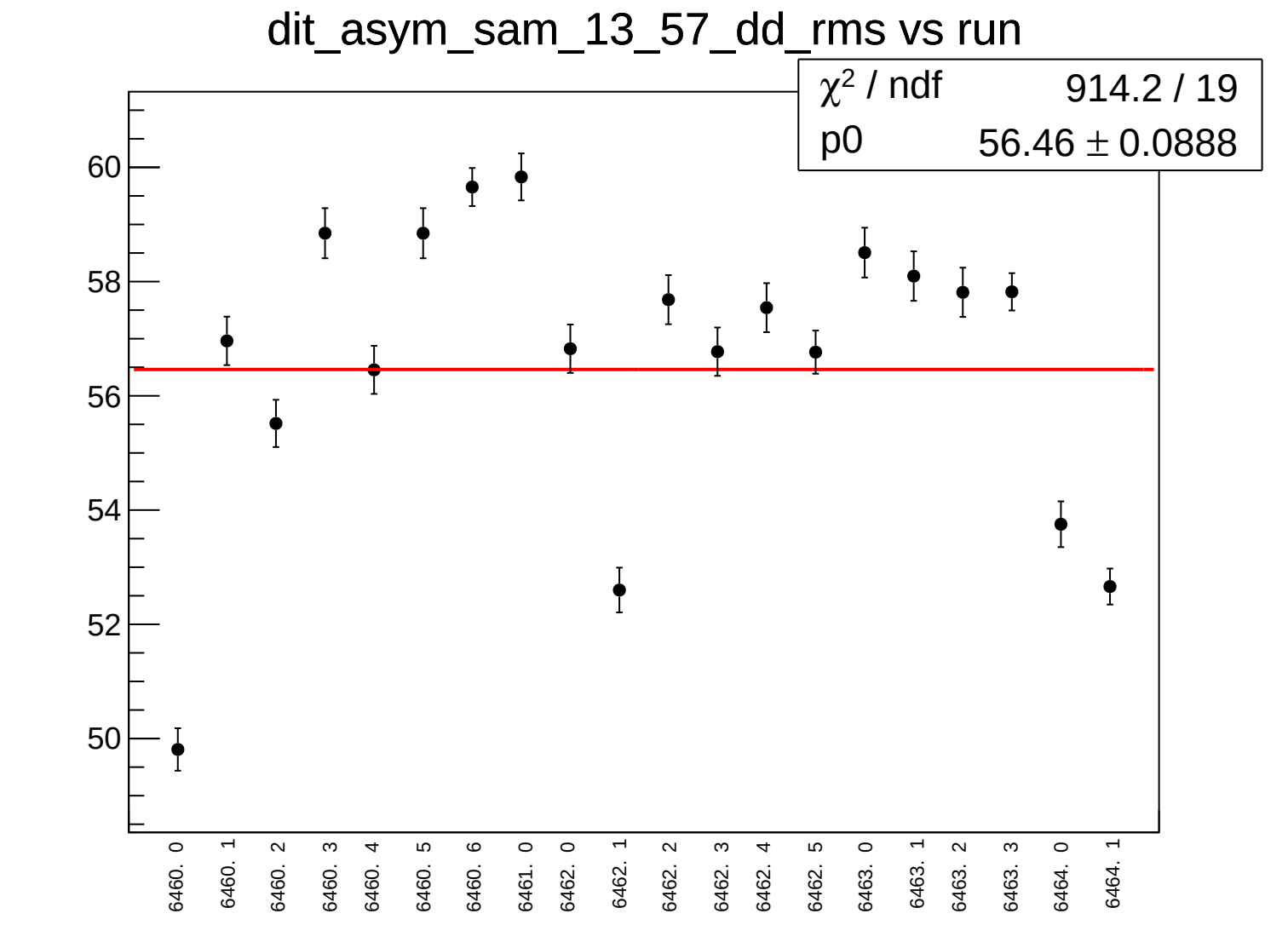

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 864.7 / 19
p0 52.28 ± 0.08222
56
54
52
50
48
46
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

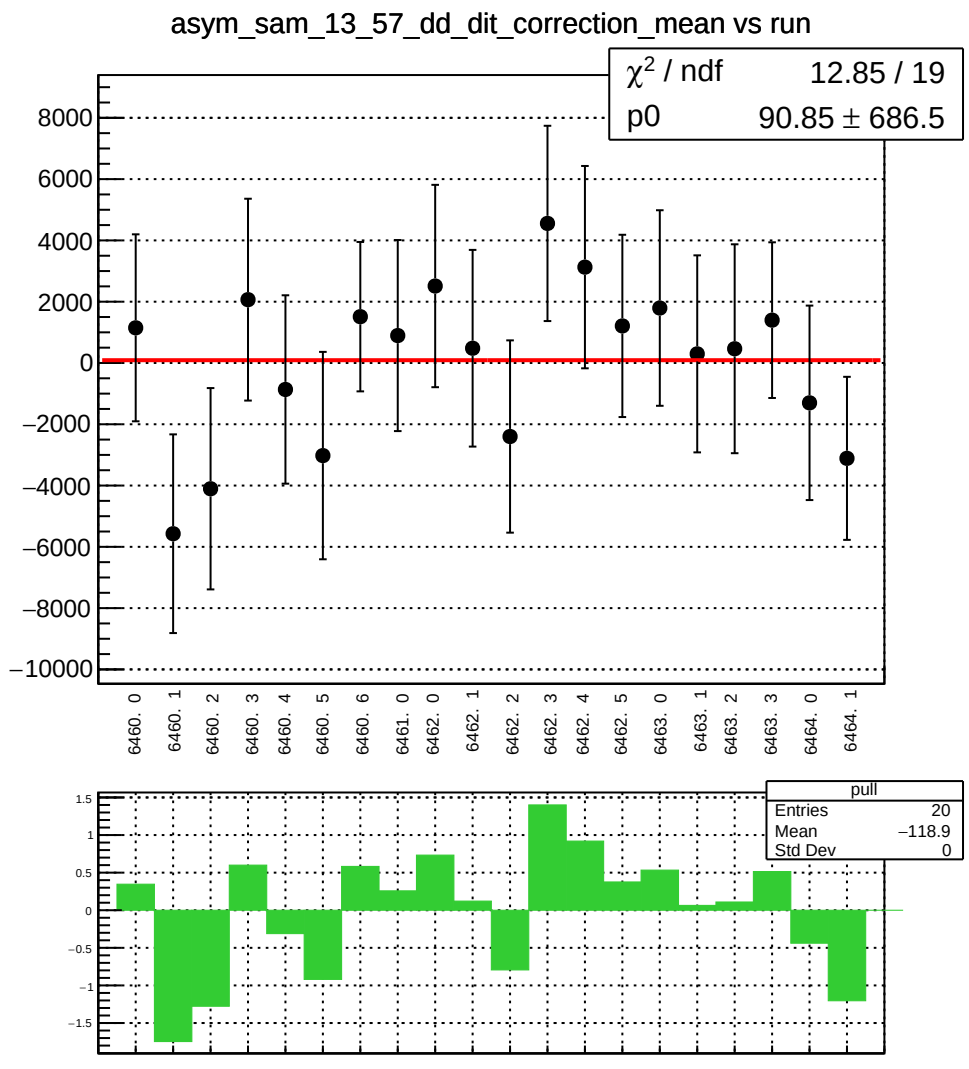

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 13.1 / 19
p0 68.74 ± 680
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −185.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.00502
Std Dev 0.8092
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

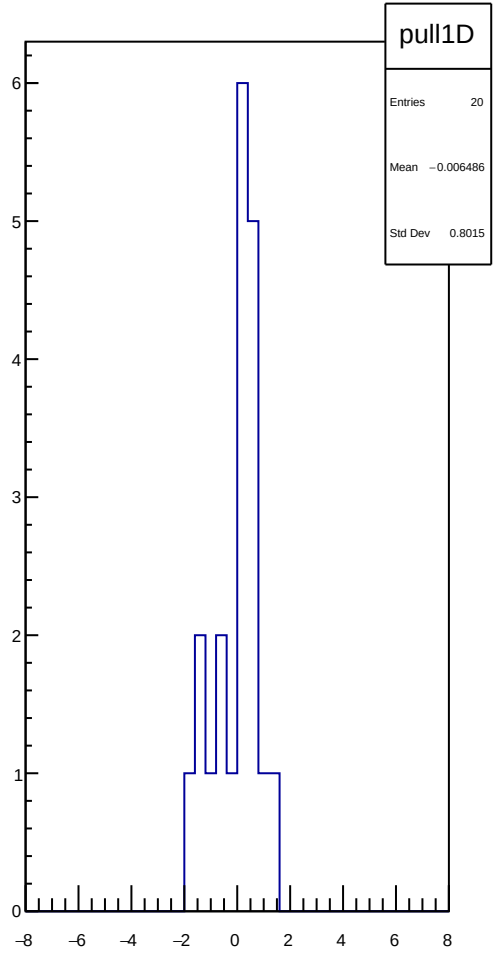

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 526.2 / 19
p0 305.9 ± 0.4809
320
310
300
290
280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

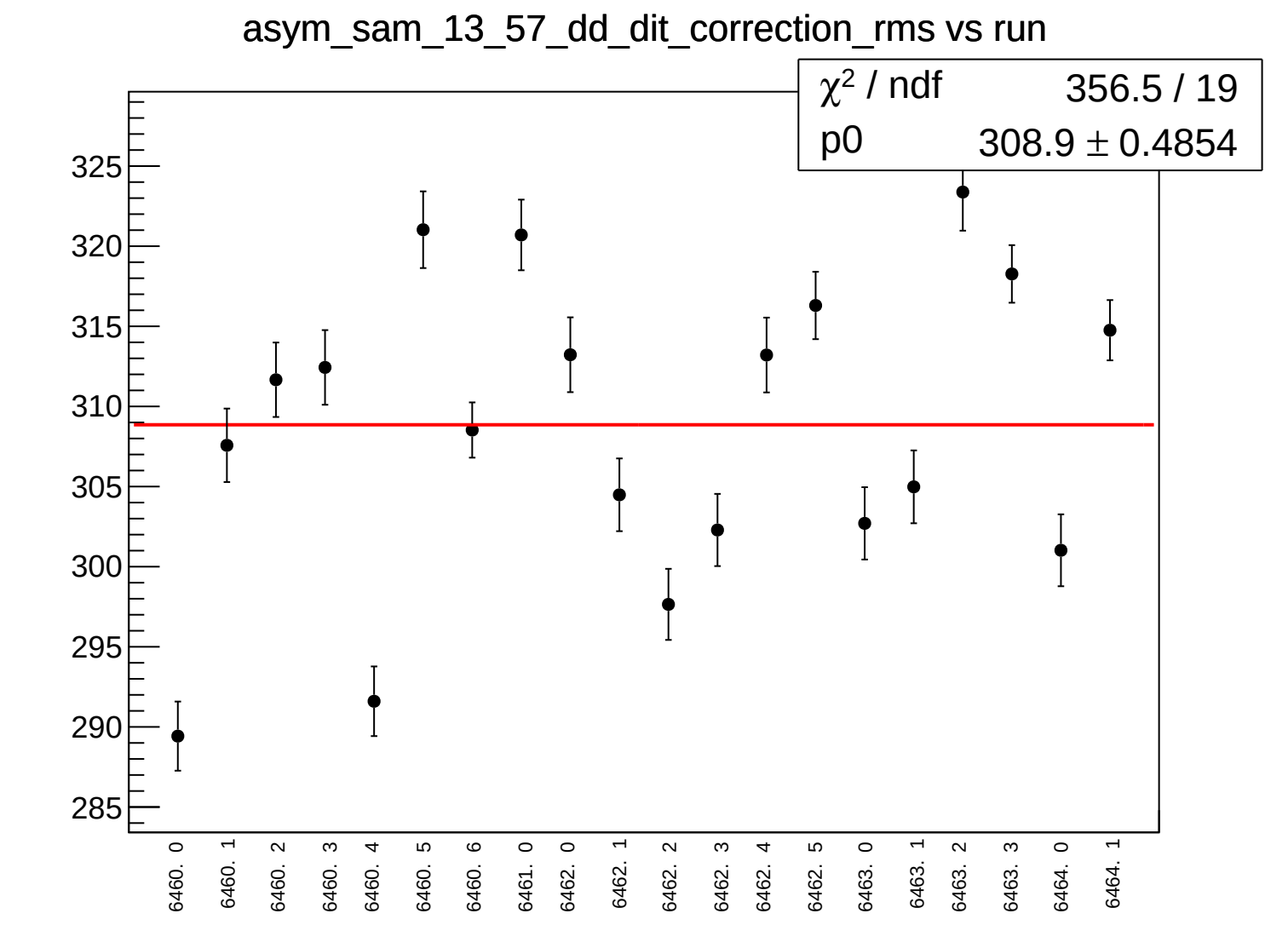

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 15.5 / 19
p0 180.8 ± 125.6
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

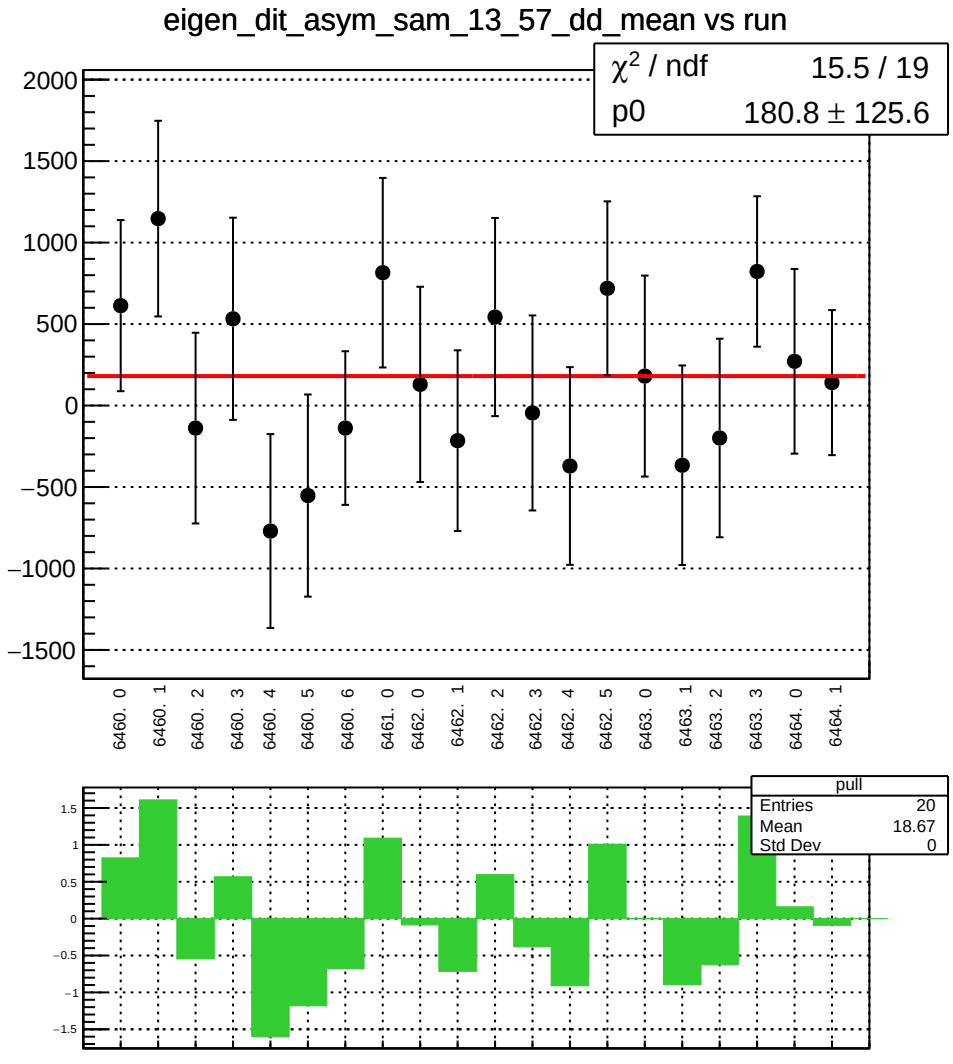

pull1D
Entries 20
Mean −0.02249
Std Dev 0.8802
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

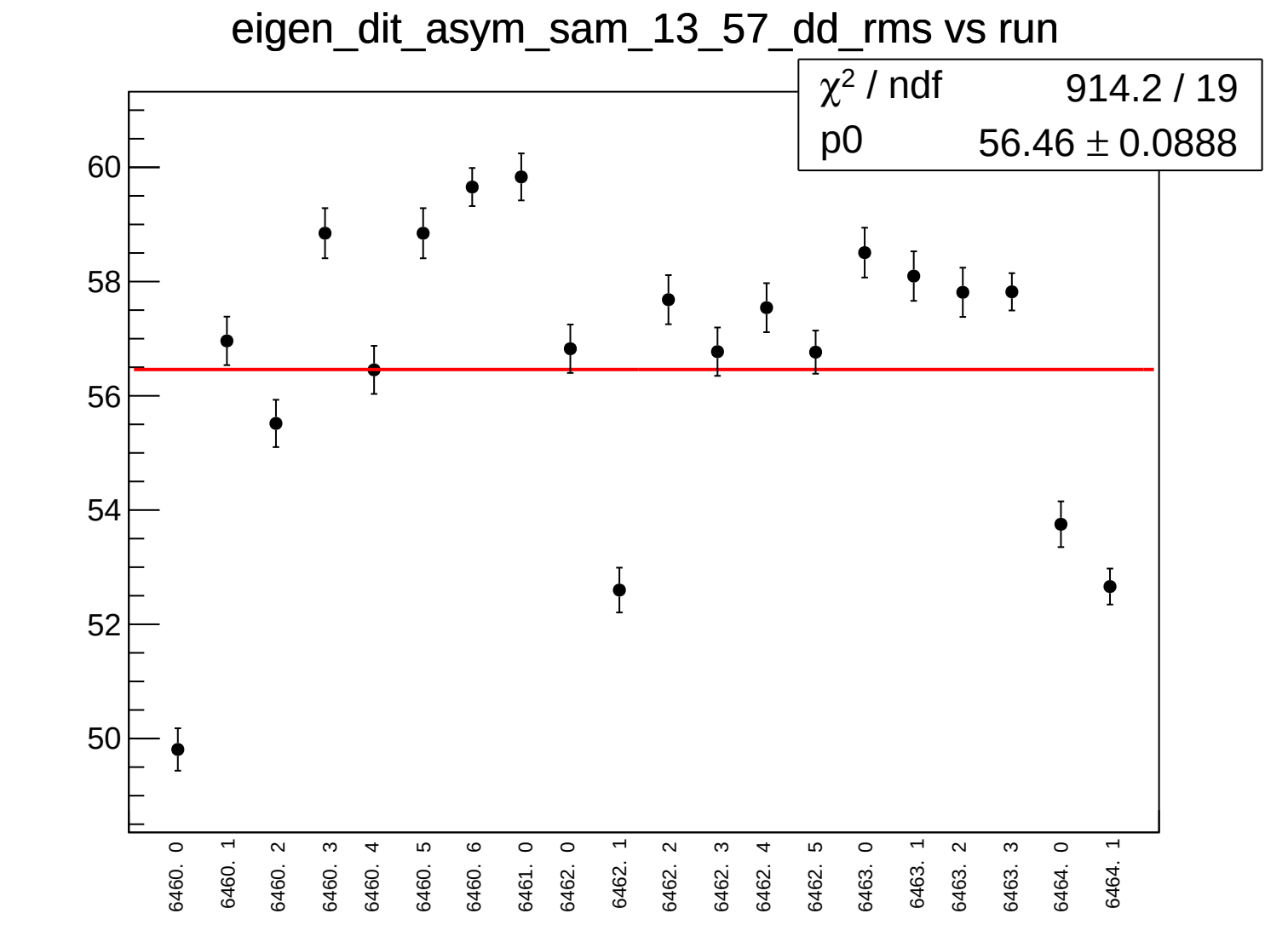

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 914.2 / 19
p0 56.46 ± 0.0888
60
58
56
54
52
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

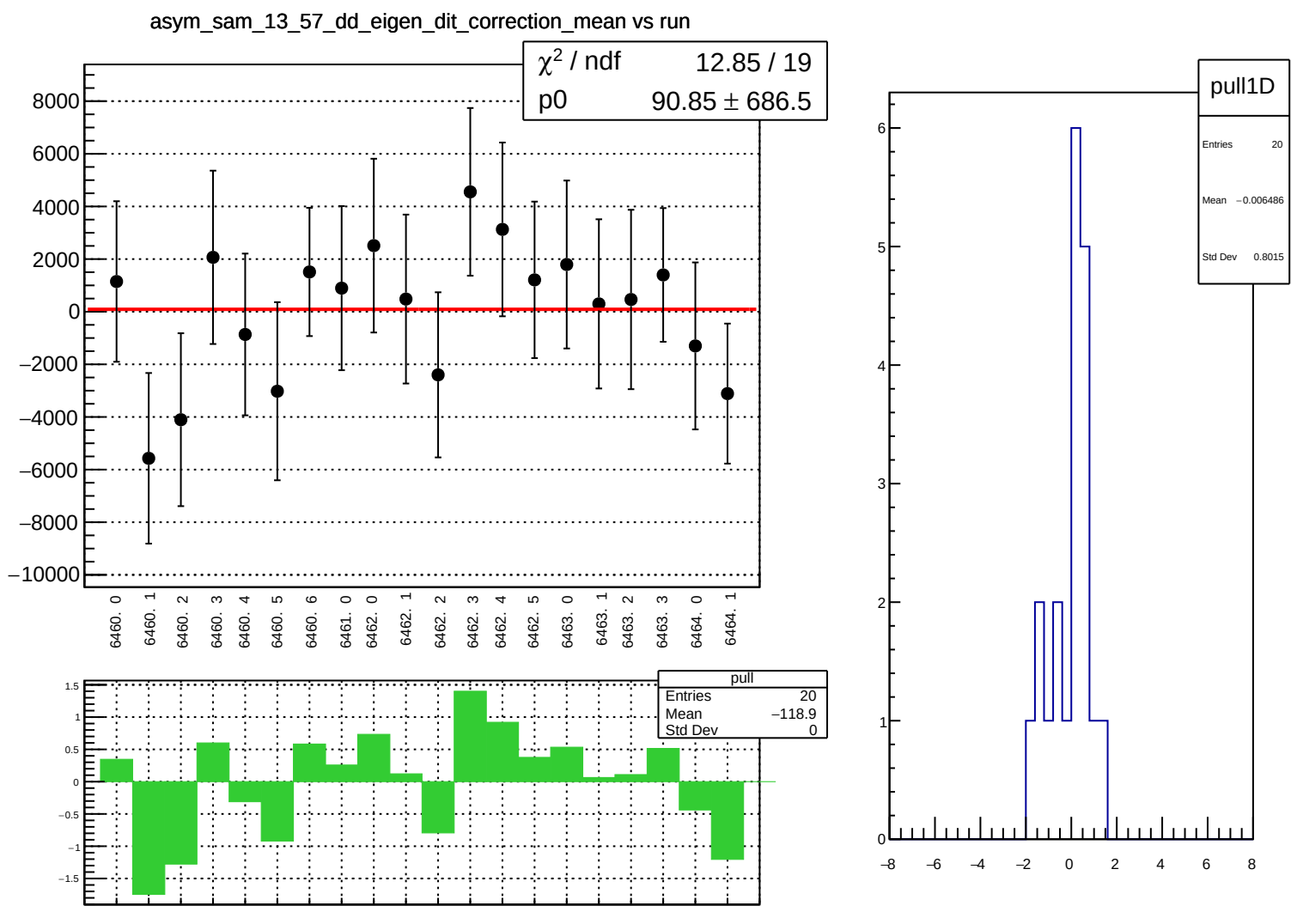

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 12.85 / 19
p0 90.85 ± 686.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −118.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

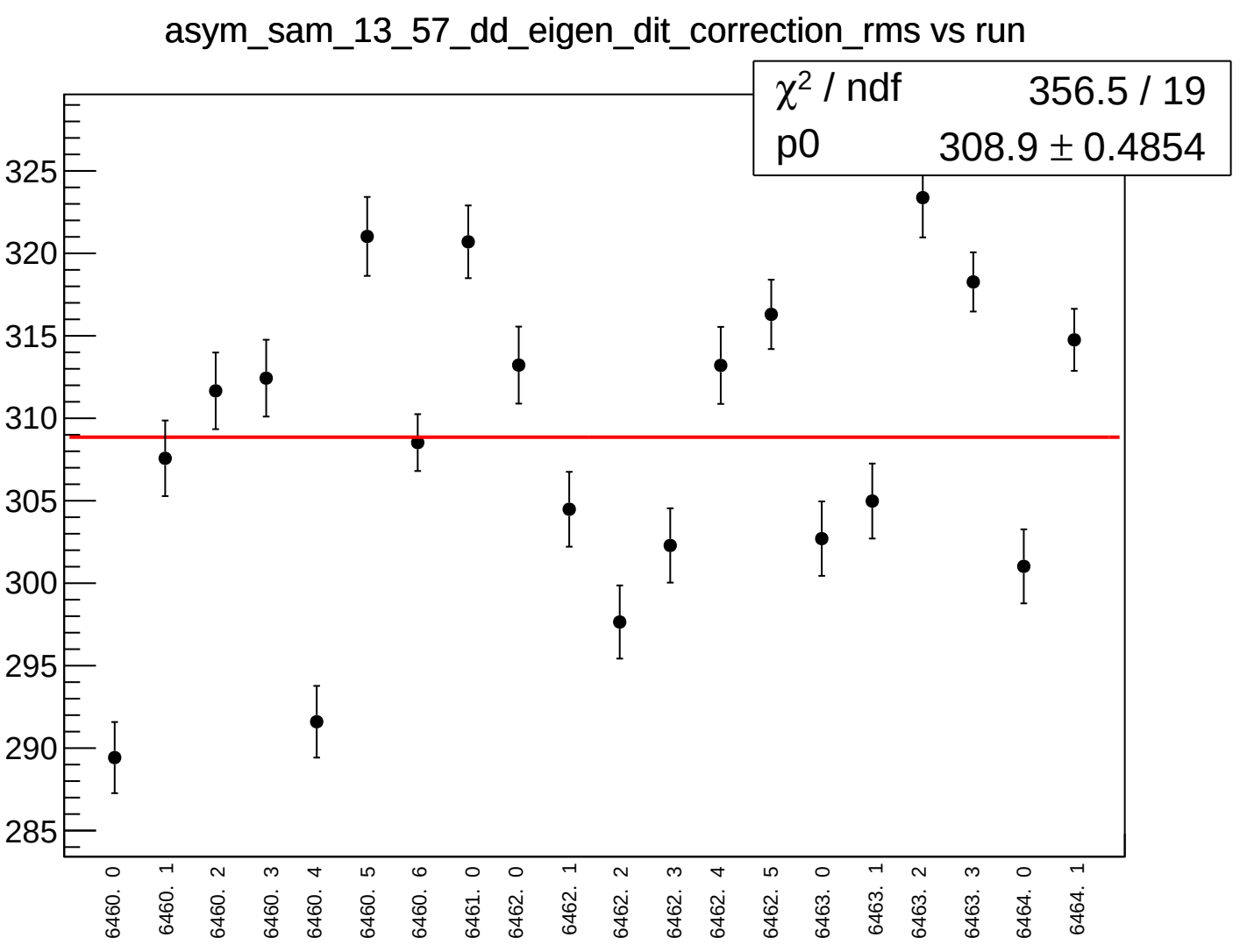

pull1D
Entries 20
Mean −0.006486
Std Dev 0.8015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

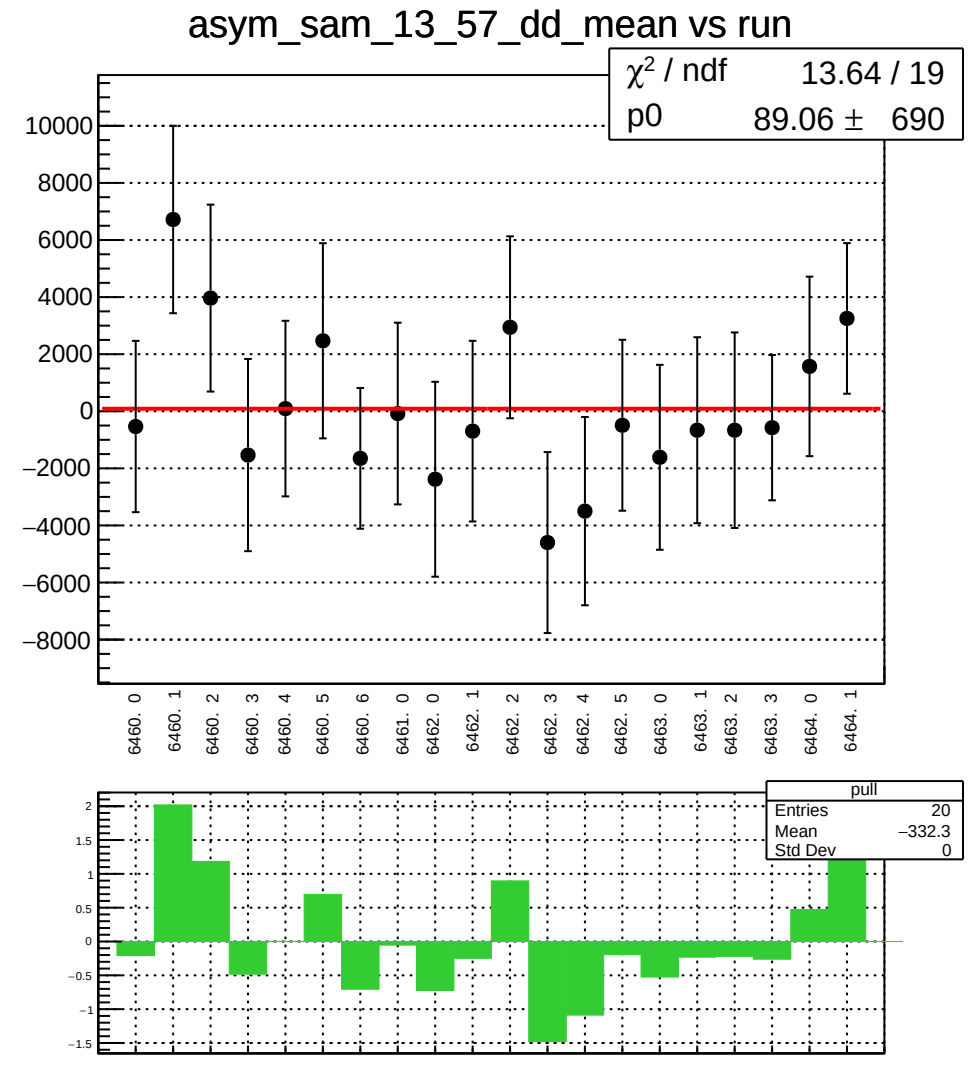

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 356.5 / 19
p0 308.9 ± 0.4854
325
320
315
310
305
300
295
290
285
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

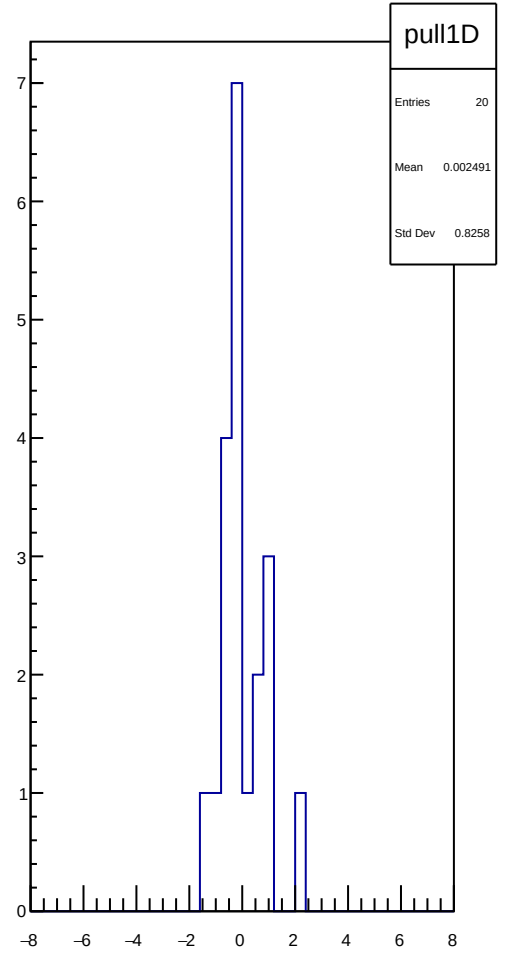

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 15.5 / 19
p0 180.8 ± 125.6
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02249
Std Dev 0.8802
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

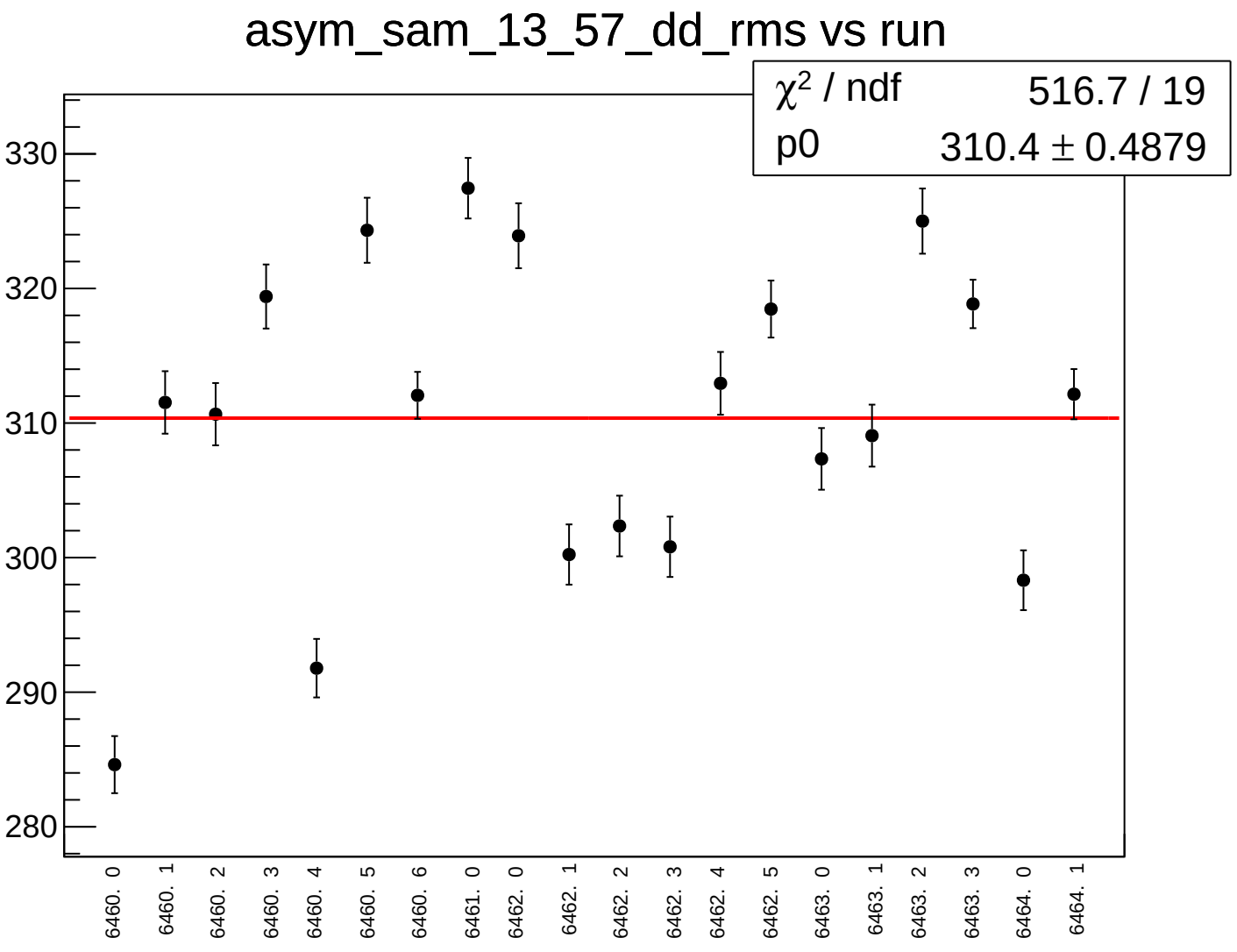

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 914.2 / 19
p0 56.46 ± 0.0888
60
58
56
54
52
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

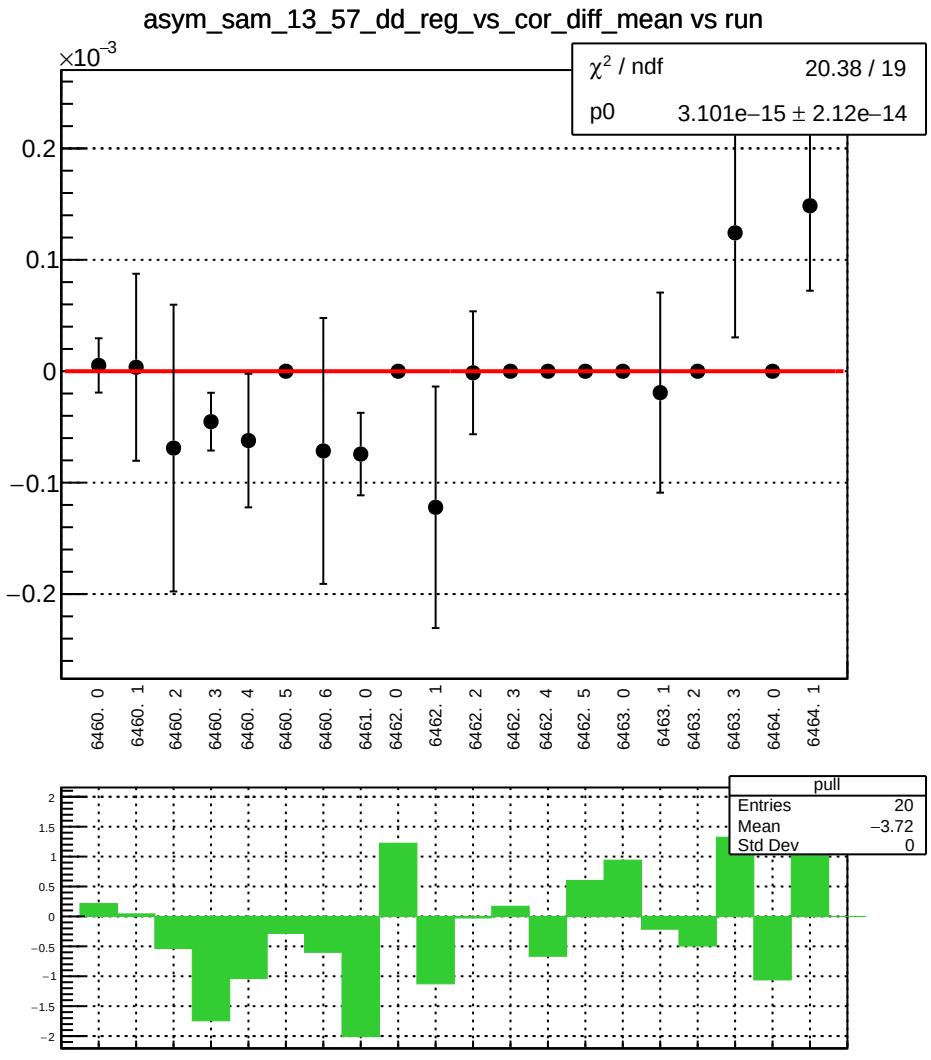

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 12.85 / 19
p0 90.85 ± 686.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −118.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.006486
Std Dev 0.8015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

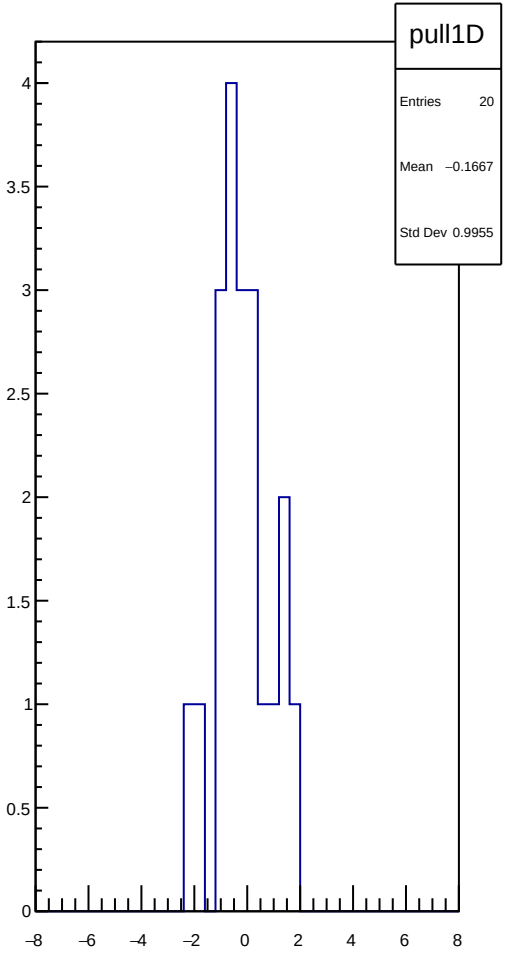

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 356.5 / 19
p0 308.9 ± 0.4854
325
320
315
310
305
300
295
290
285
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

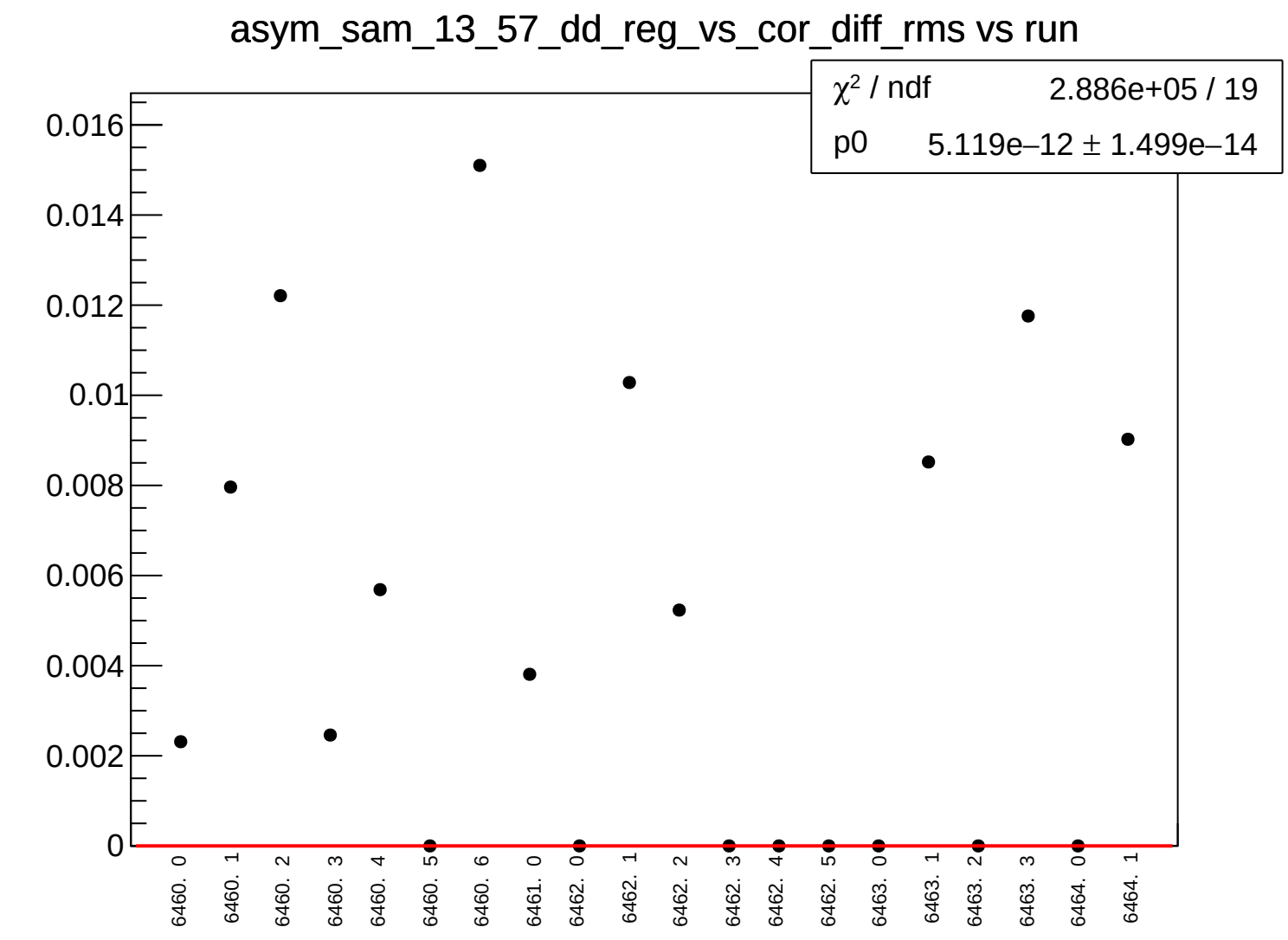

asym_sam_13_57_dd_mean vs run
χ² / ndf 13.64 / 19
p0 89.06 ± 690
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −332.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

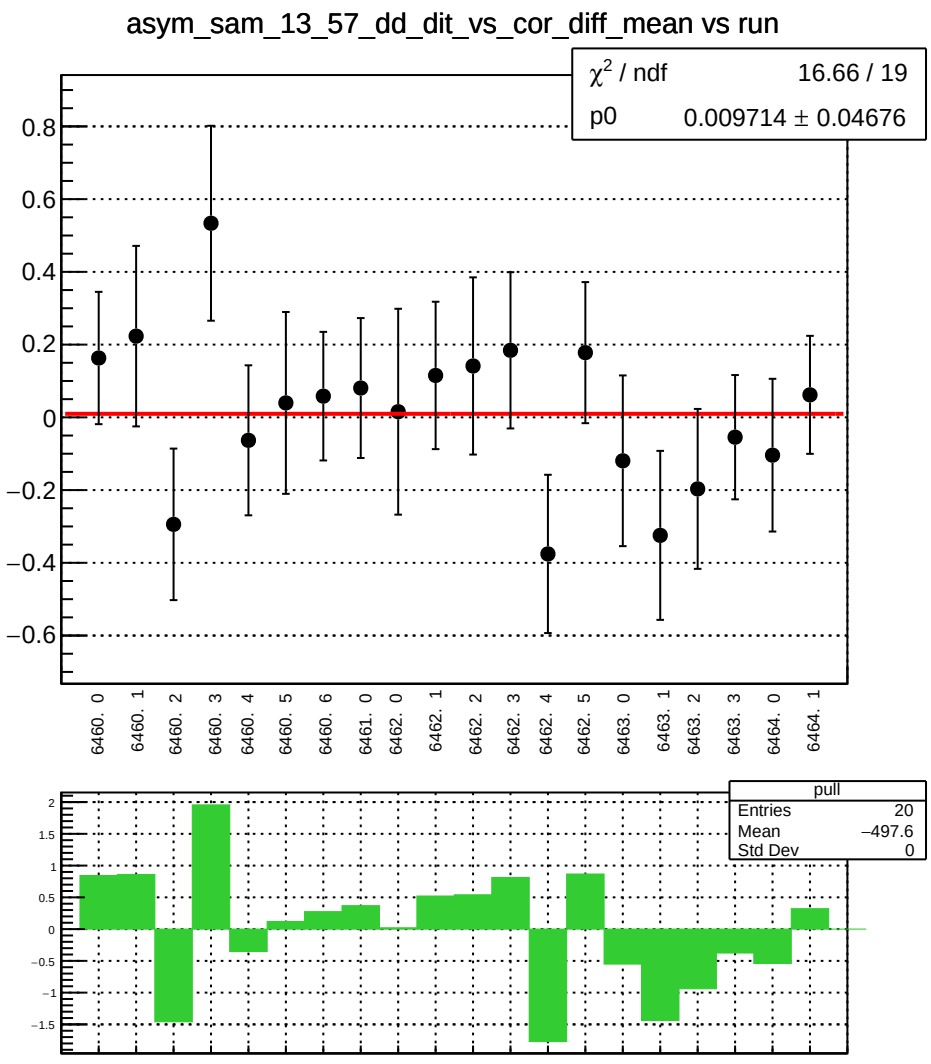

pull1D
Entries 20
Mean 0.002491
Std Dev 0.8258
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

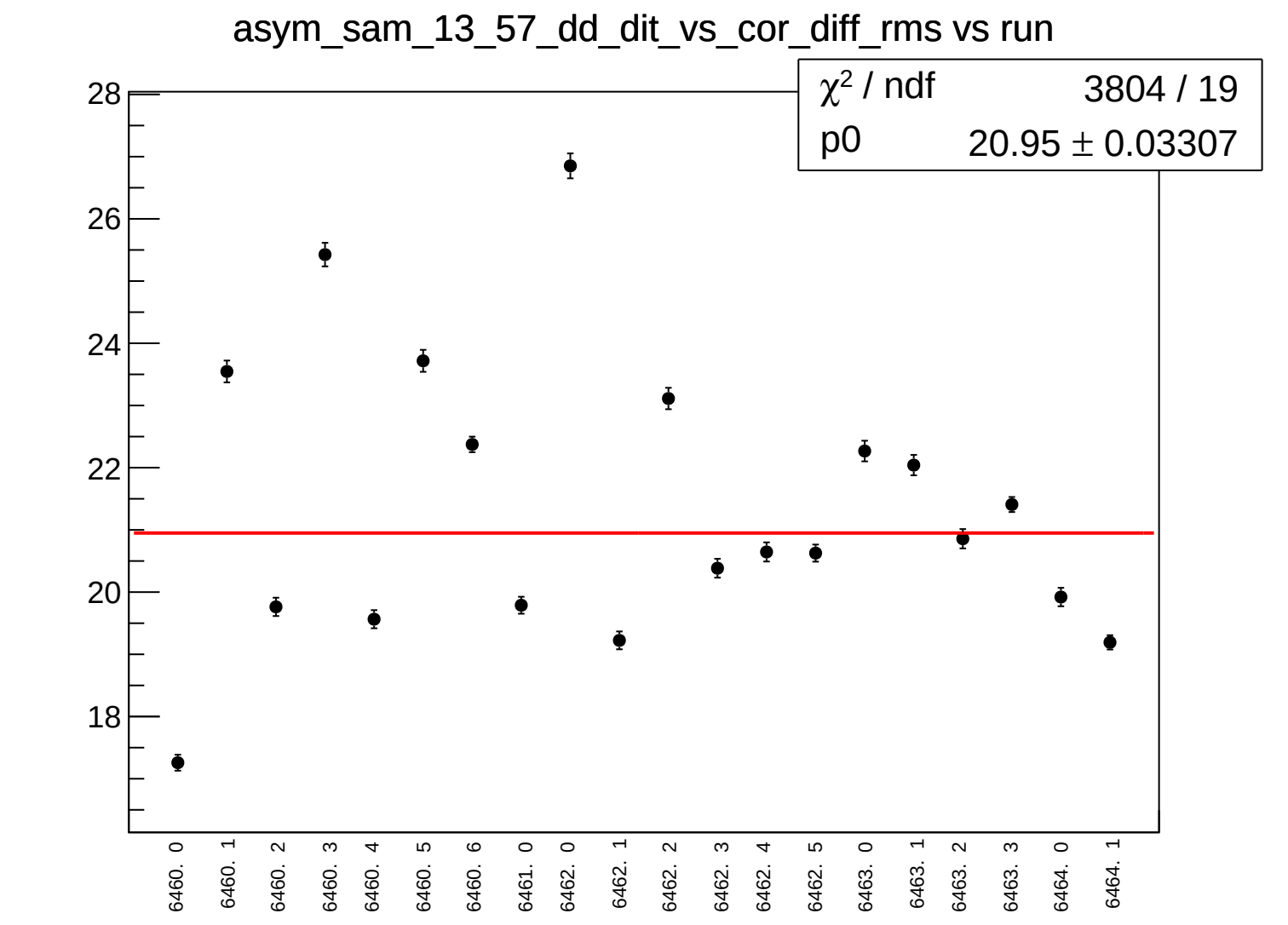

asym_sam_13_57_dd_rms vs run
χ² / ndf 516.7 / 19
p0 310.4 ± 0.4879
330
320
310
300
290
280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

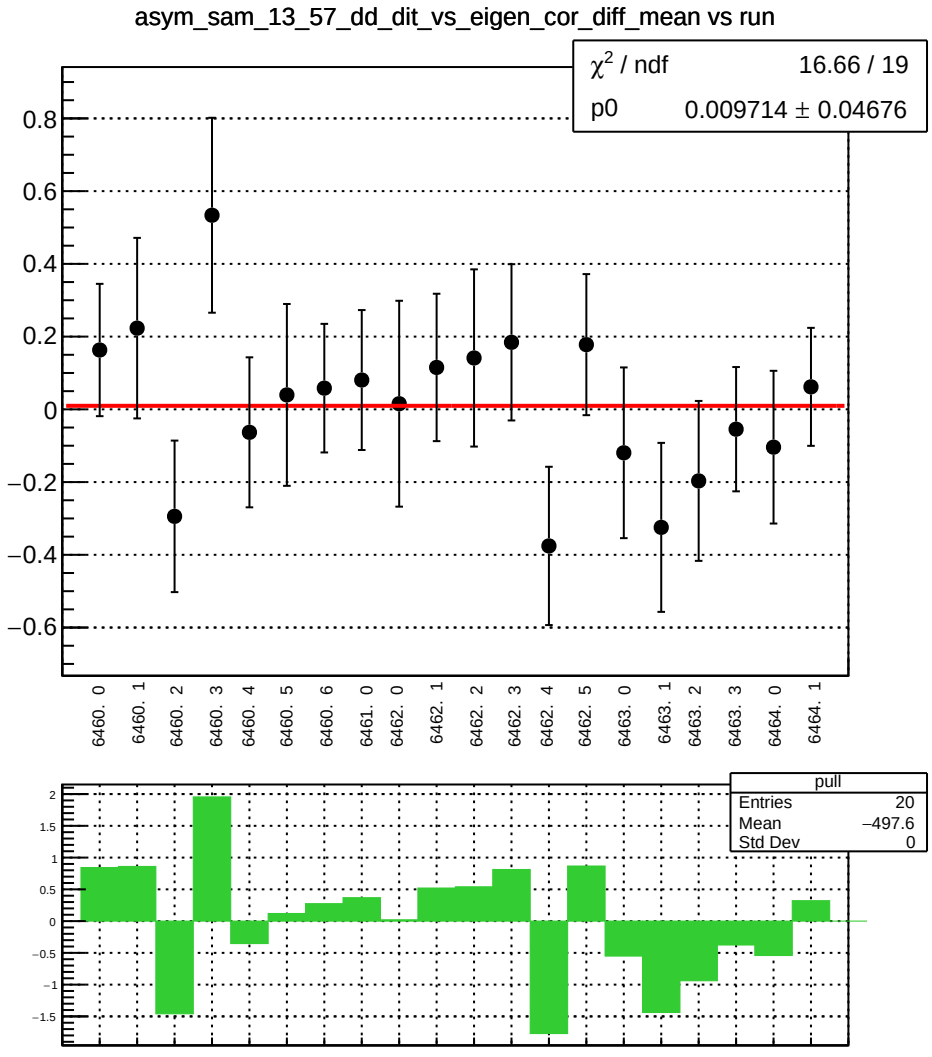

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 20.38 / 19
p0 3.101e−15 ± 2.12e−14
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −3.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

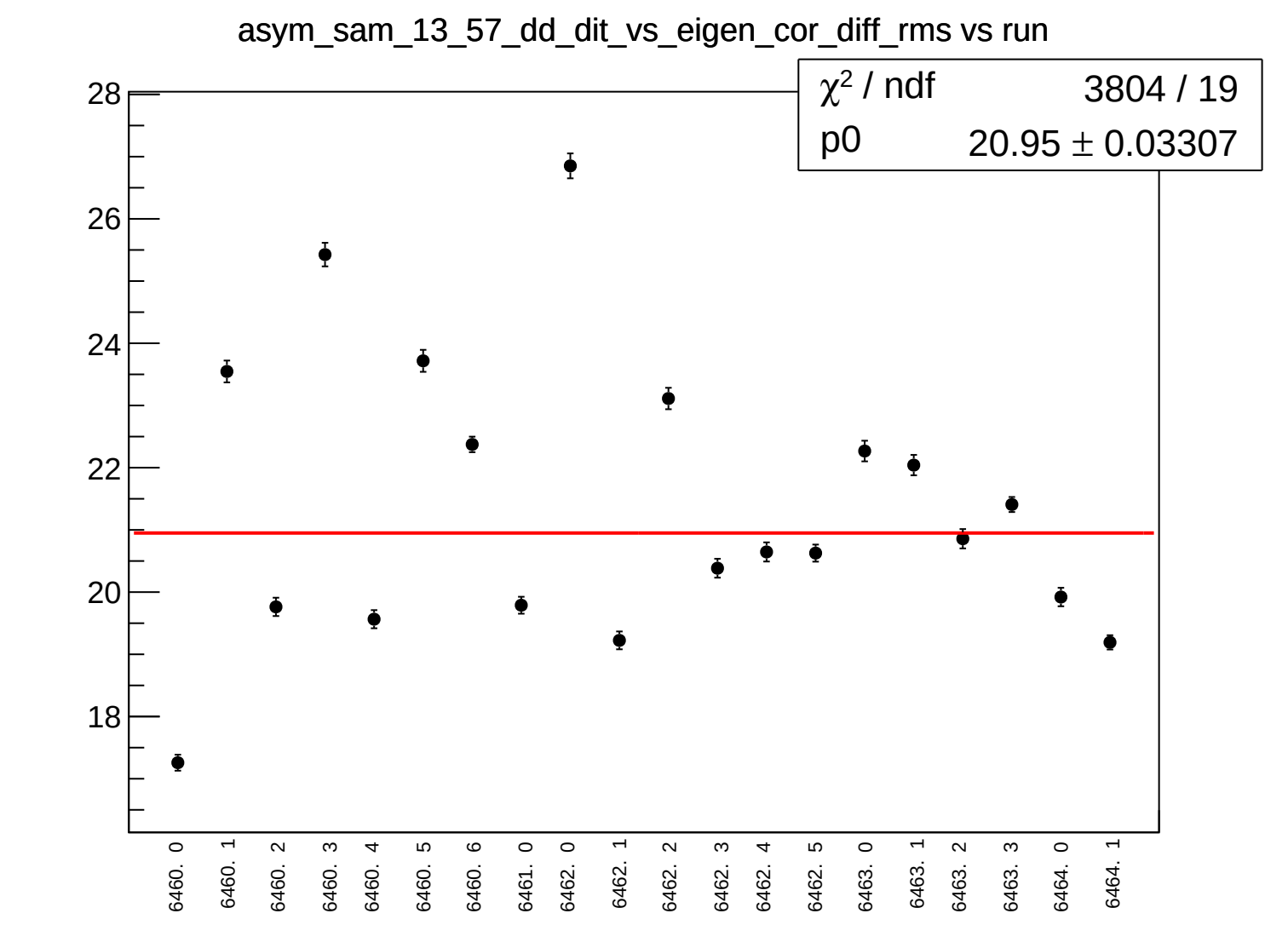

pull1D
Entries 20
Mean −0.1667
Std Dev 0.9955
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

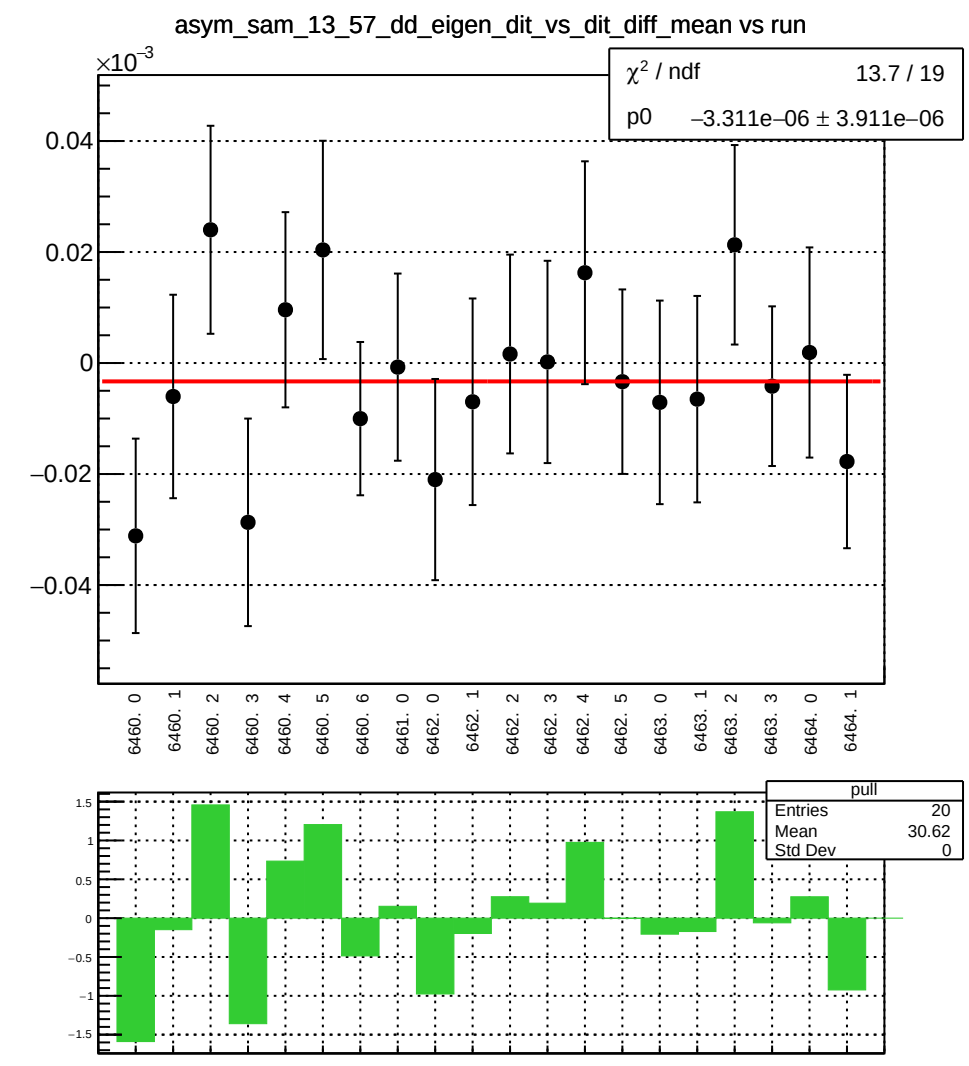

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.886e+05 / 19
p0 5.119e−12 ± 1.499e−14
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

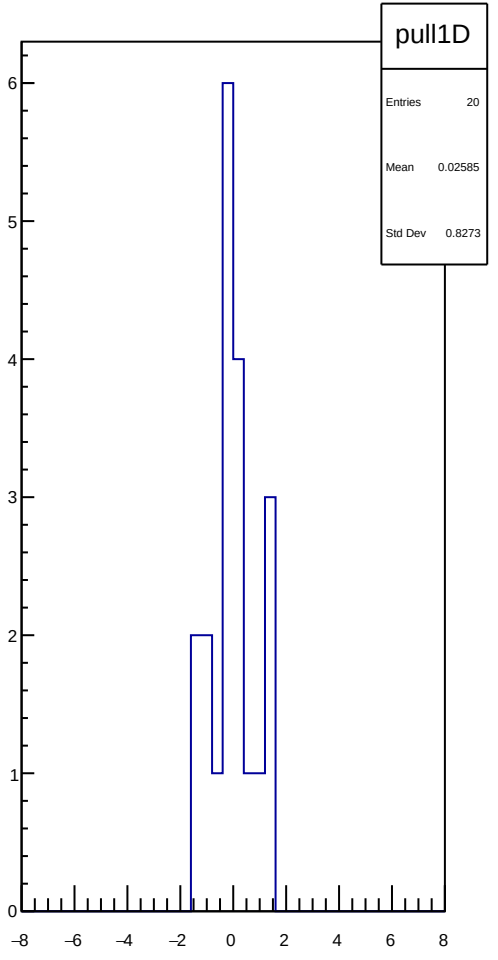

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 16.66 / 19
p0 0.009714 ± 0.04676
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −497.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.003805
Std Dev 0.9126
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

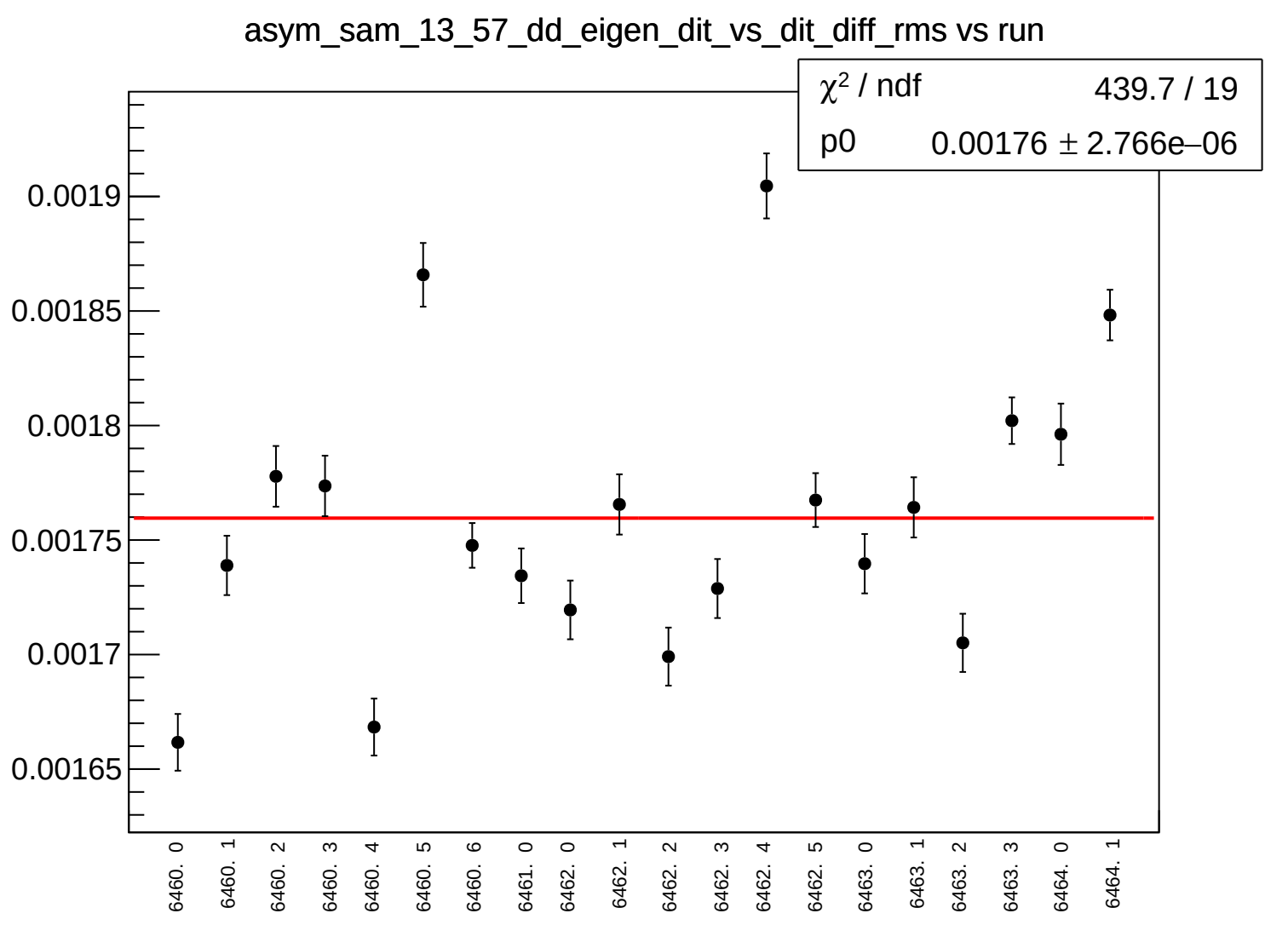

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3804 / 19
p0 20.95 ± 0.03307
28
26
24
22
20
18
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

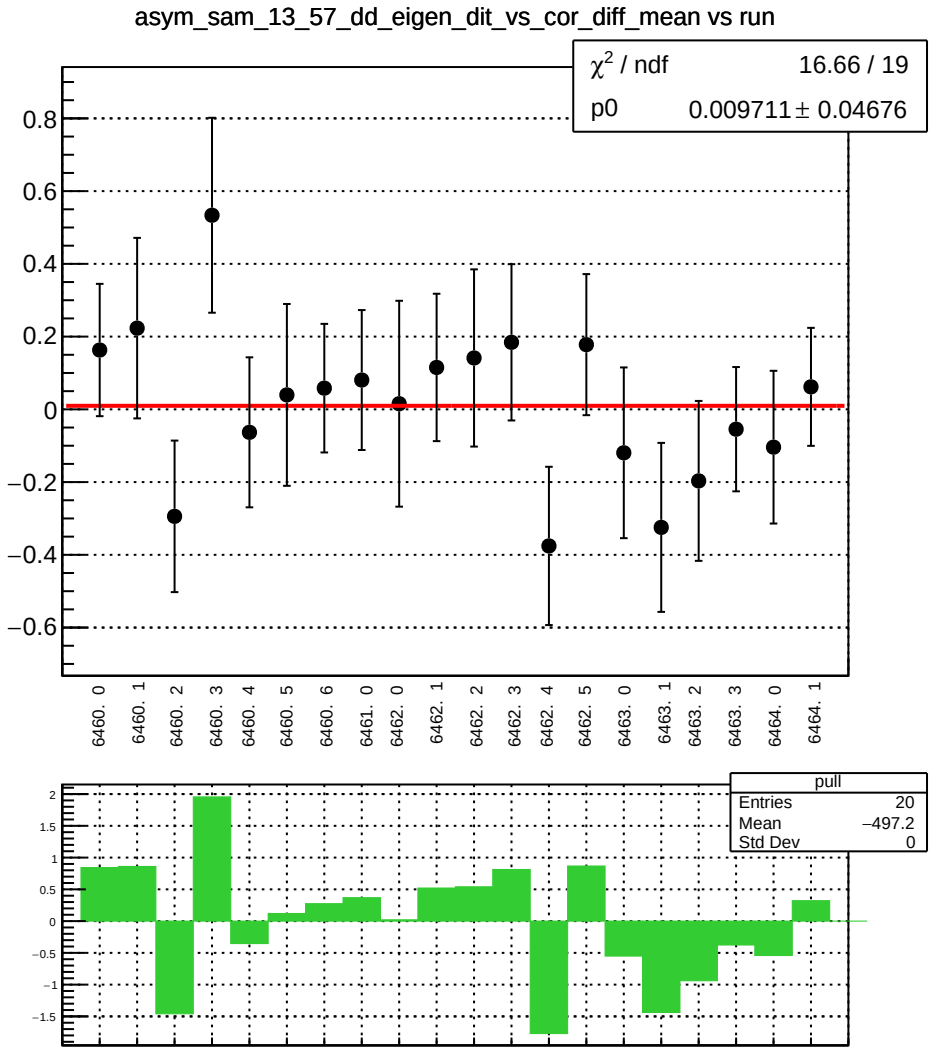

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.66 / 19
p0 0.009714 ± 0.04676
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −497.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.003805
Std Dev 0.9126
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

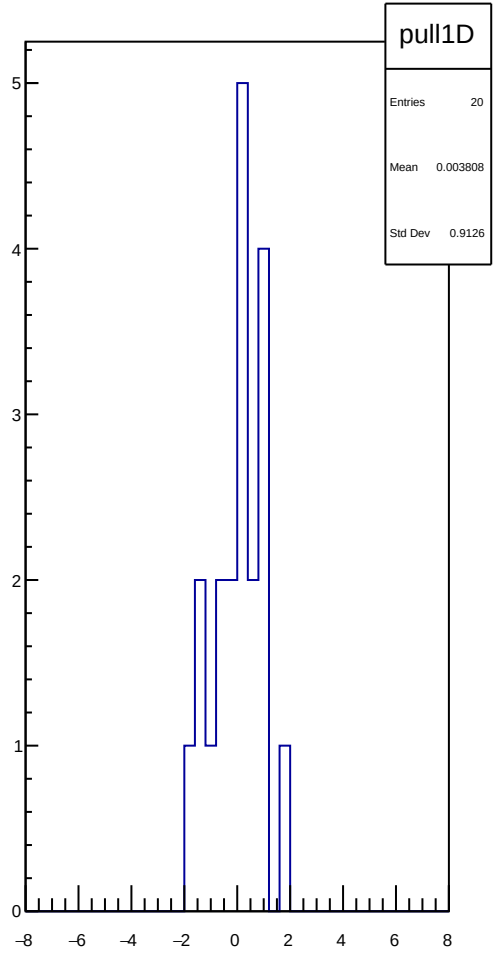

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3804 / 19
p0 20.95 ± 0.03307
28
26
24
22
20
18
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

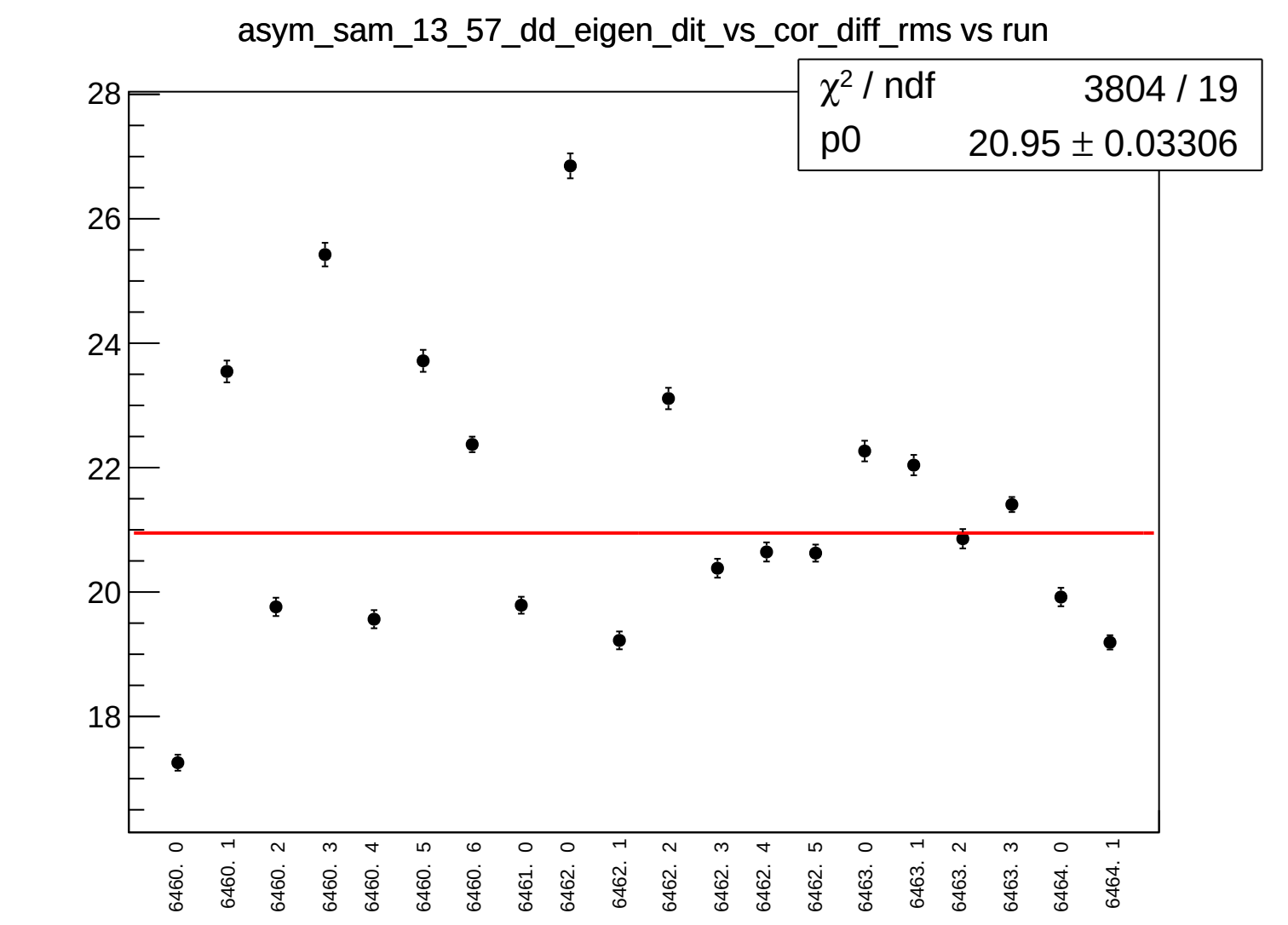

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 13.7 / 19
p0 −3.311e−06 ± 3.911e−06
0.04
0.02
0
−0.02
−0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 30.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

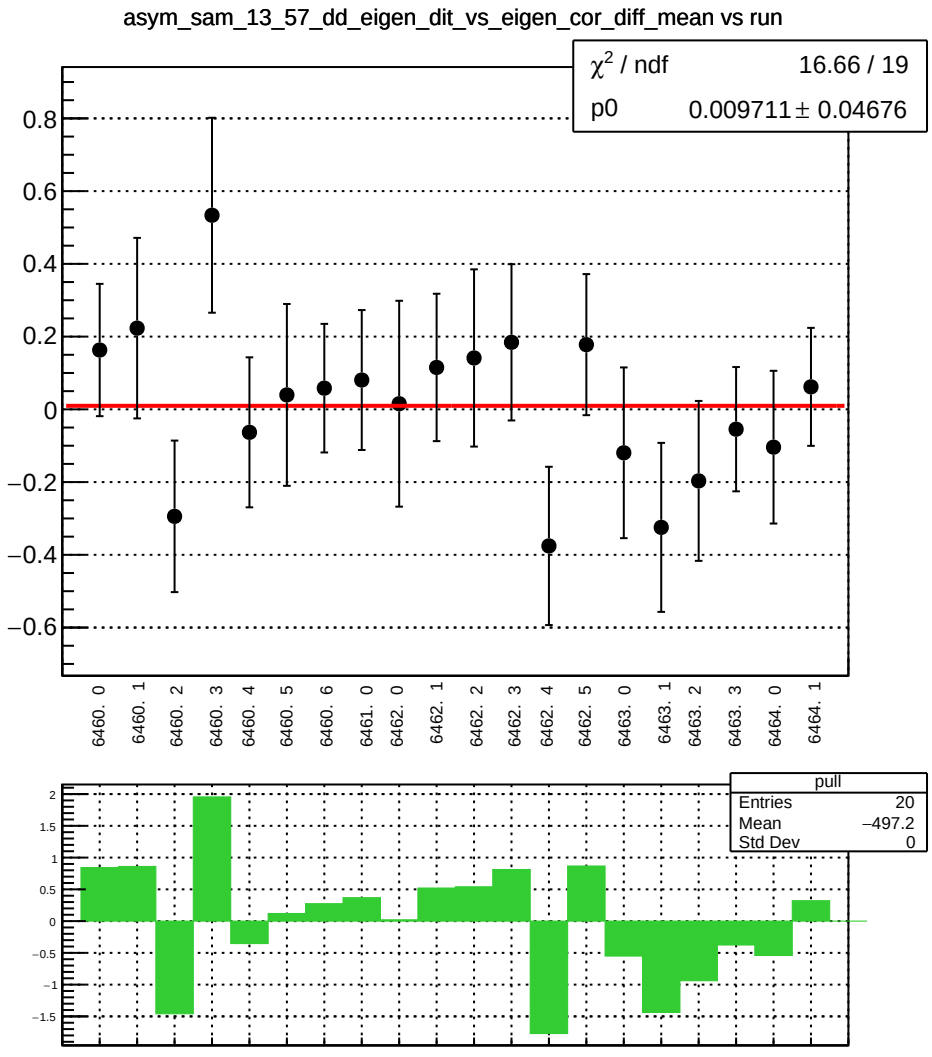

pull1D
Entries 20
Mean 0.02585
Std Dev 0.8273
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

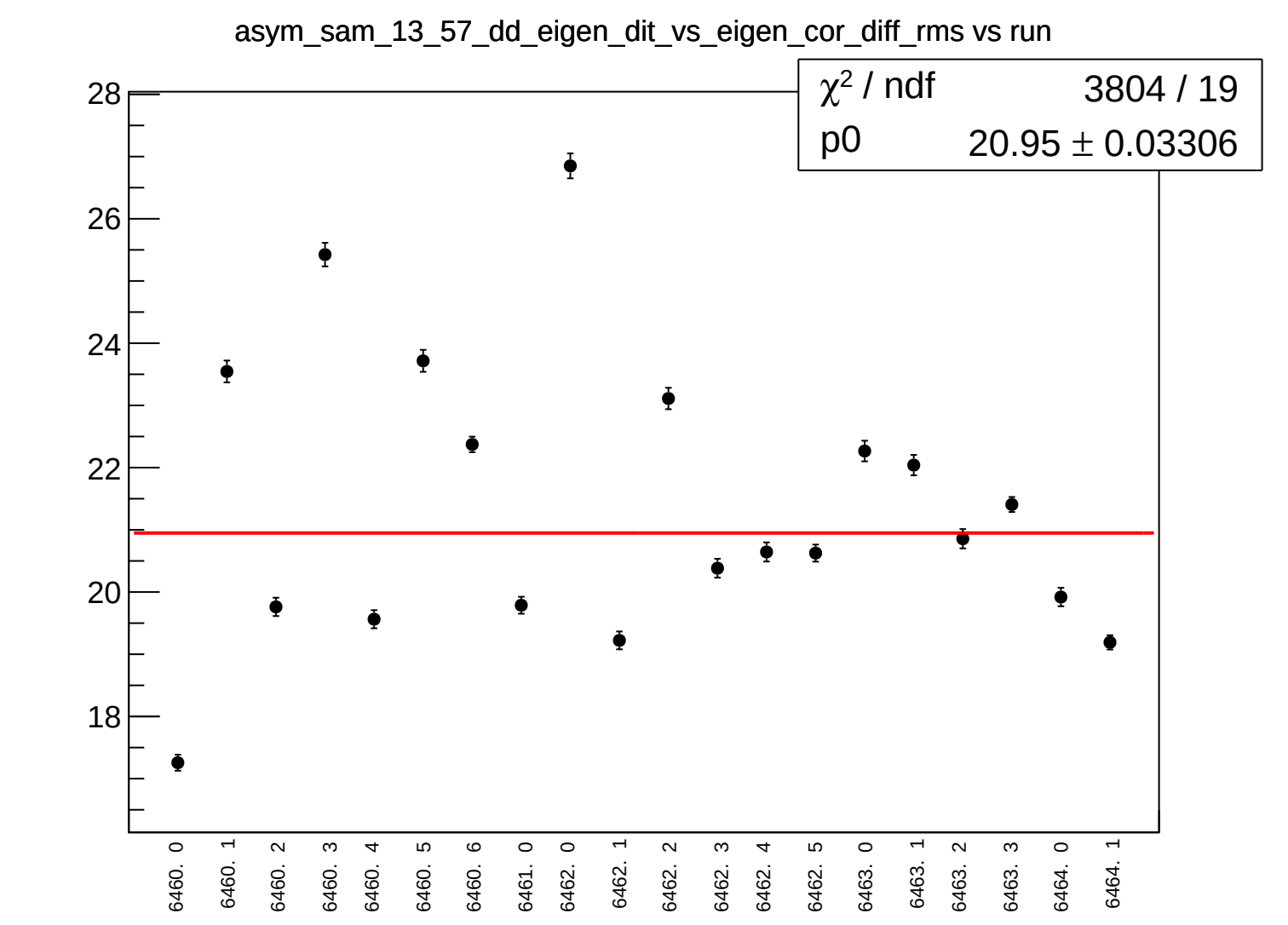

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 439.7 / 19
p0 0.00176 ± 2.766e–06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

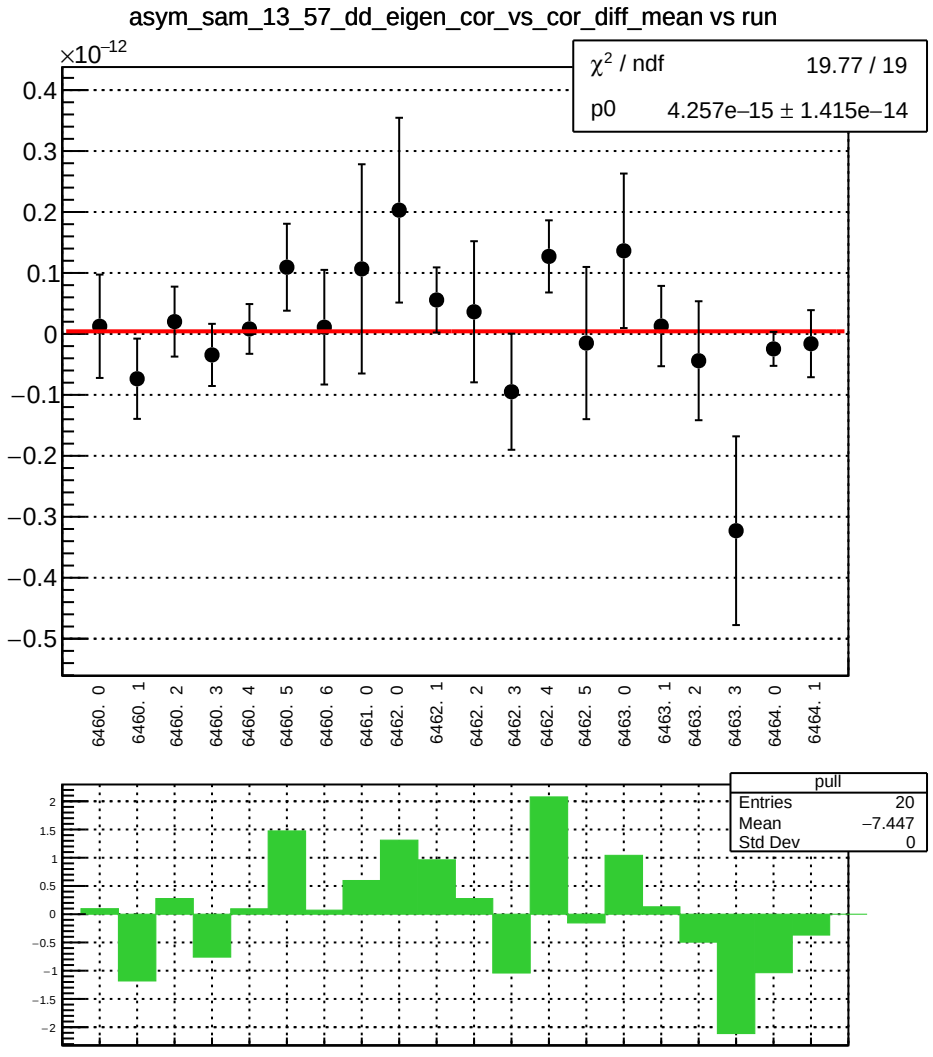

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.66 / 19
p0 0.009711 ± 0.04676
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −497.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

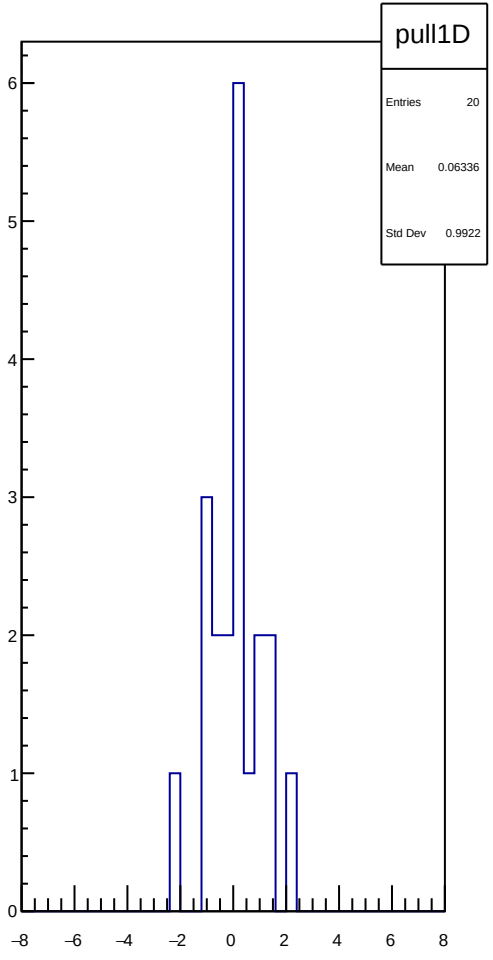

pull1D
Entries 20
Mean 0.003808
Std Dev 0.9126
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

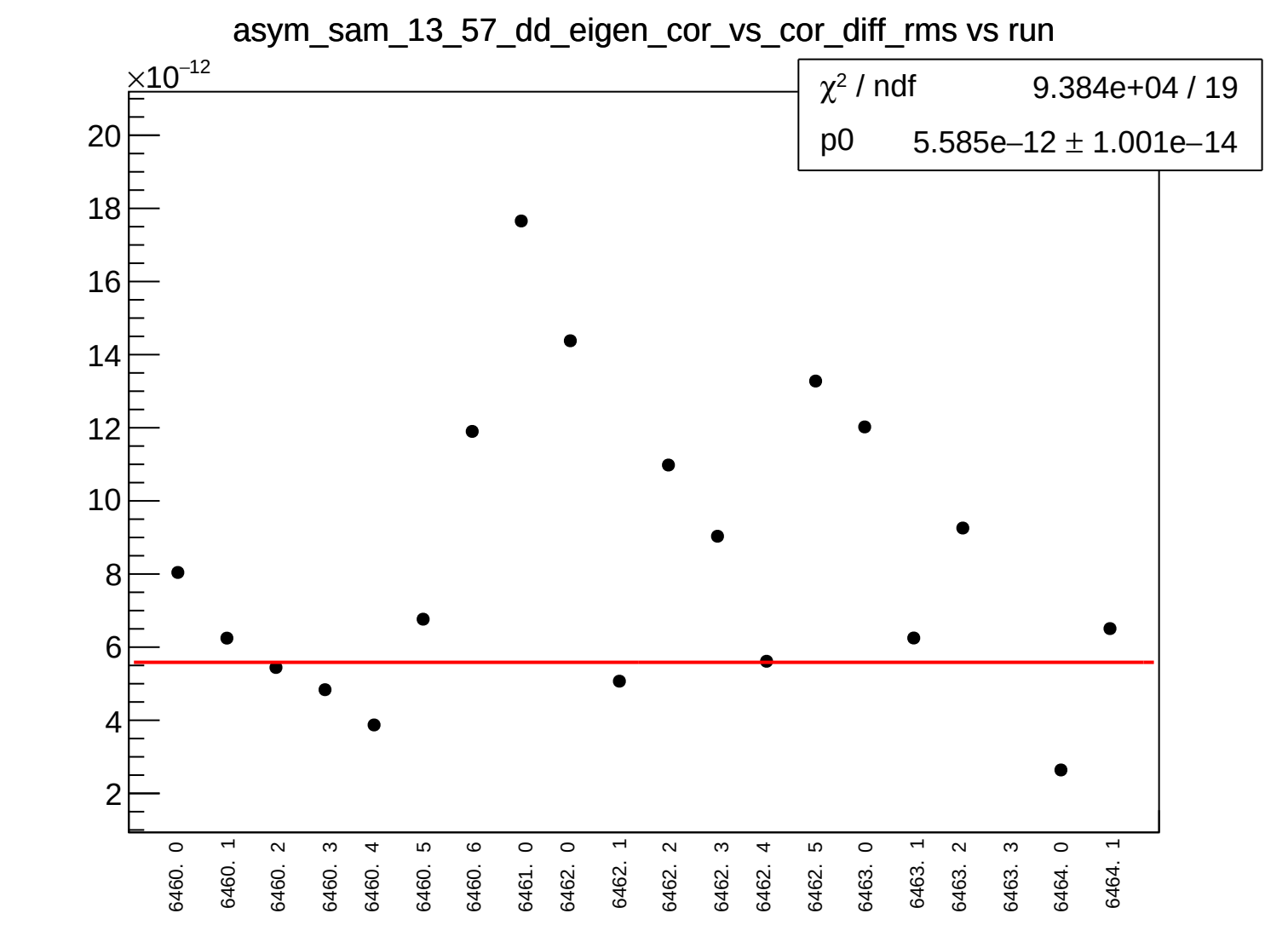

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3804 / 19
p0 20.95 ± 0.03306
28
26
24
22
20
18
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

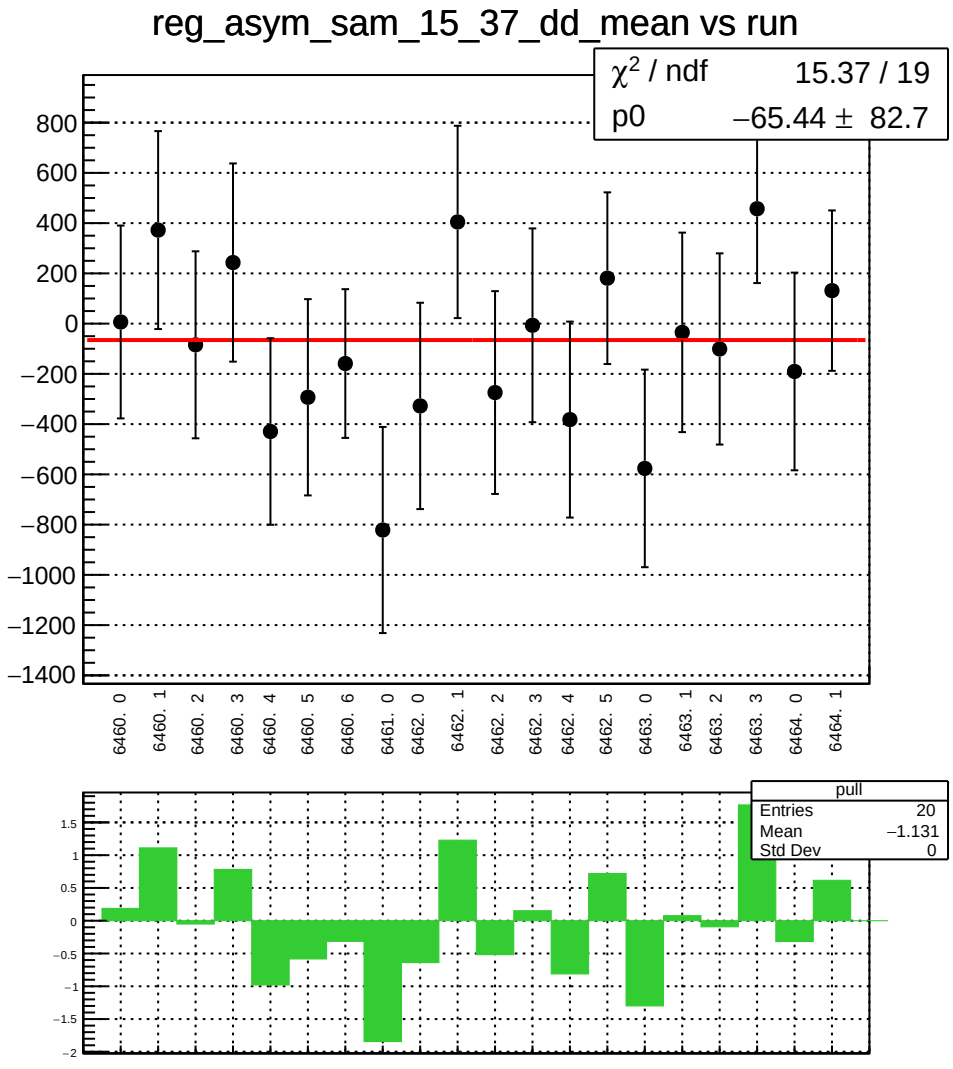

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.66 / 19
p0 0.009711 ± 0.04676
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −497.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.003808
Std Dev 0.9126
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

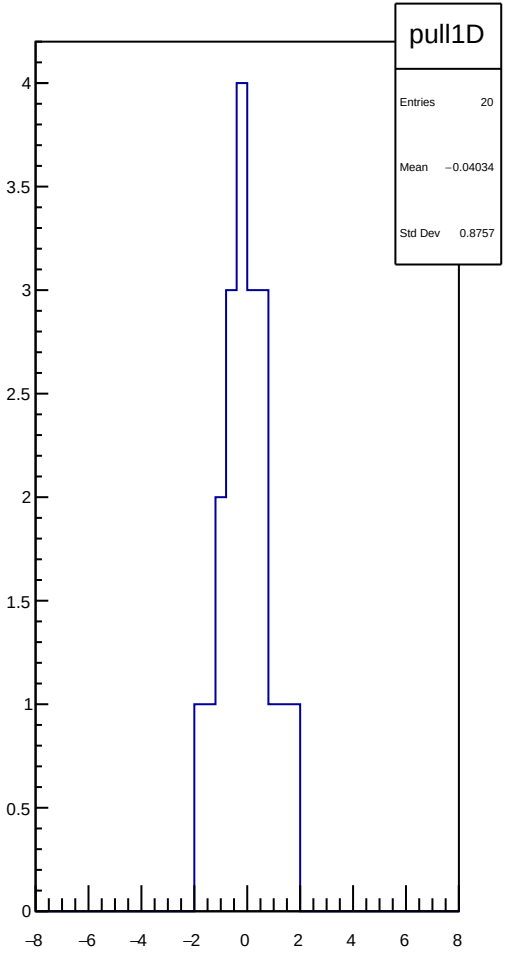

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3804 / 19
p0 20.95 ± 0.03306
28
26
24
22
20
18
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

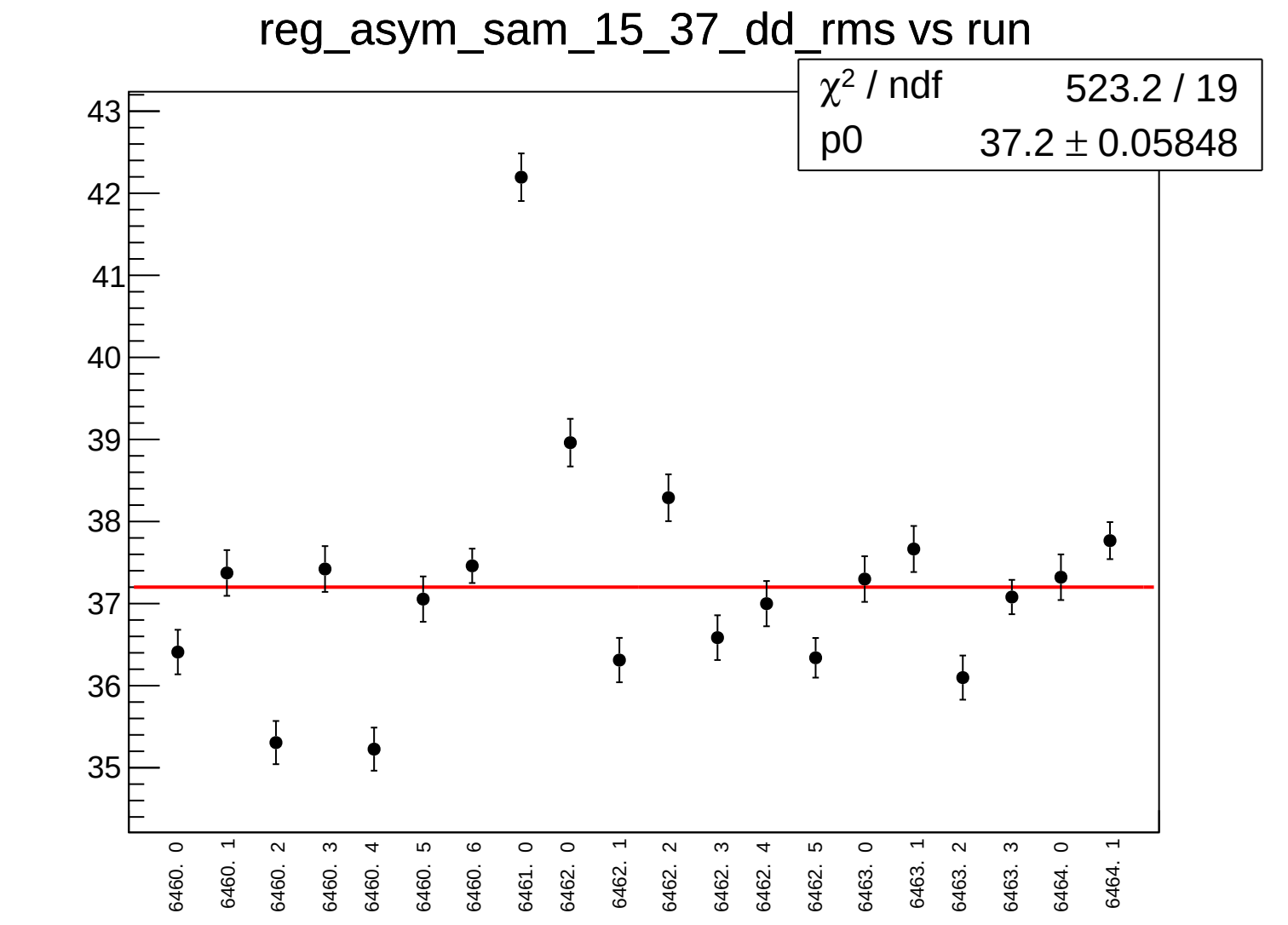

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.77 / 19
p0 4.257e−15 ± 1.415e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −7.447
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

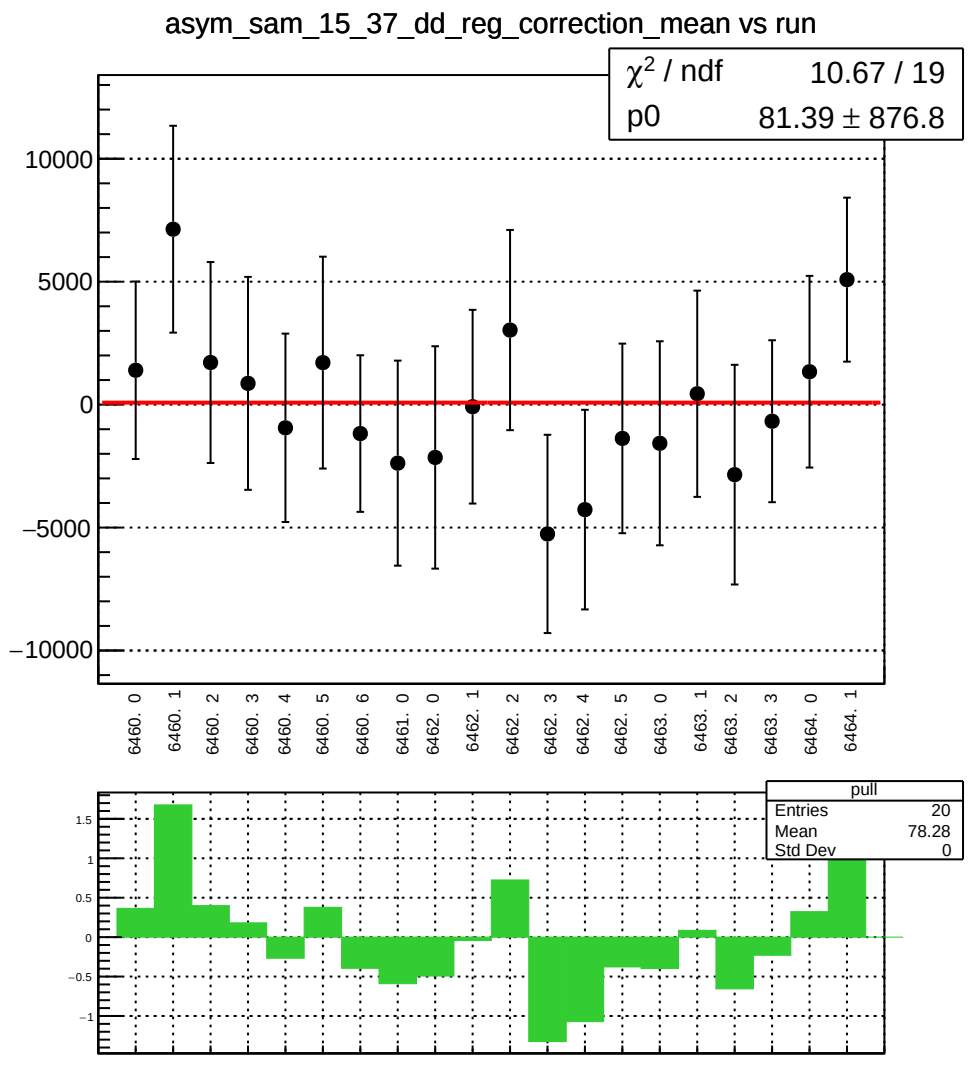

pull1D
Entries 20
Mean 0.06336
Std Dev 0.9922
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

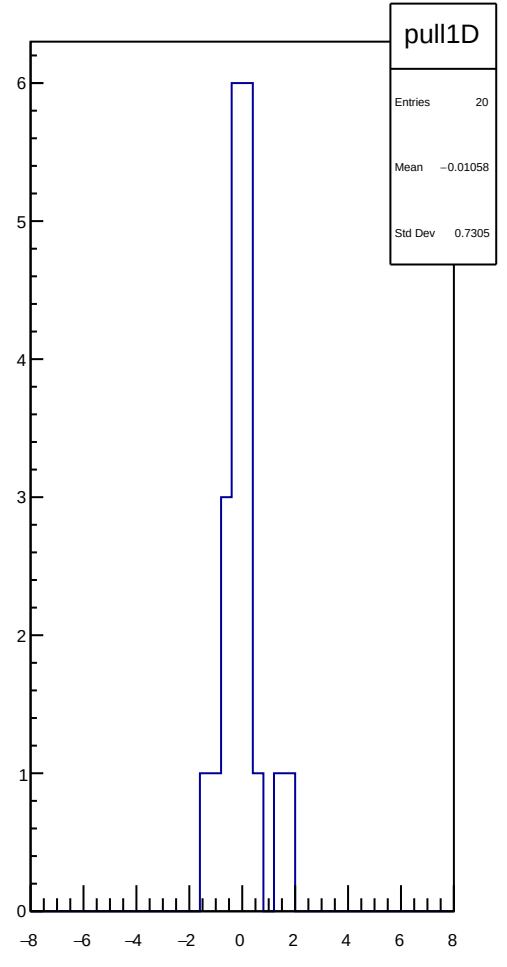

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.384e+04 / 19
p0 5.585e−12 ± 1.001e−14
20
18
16
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

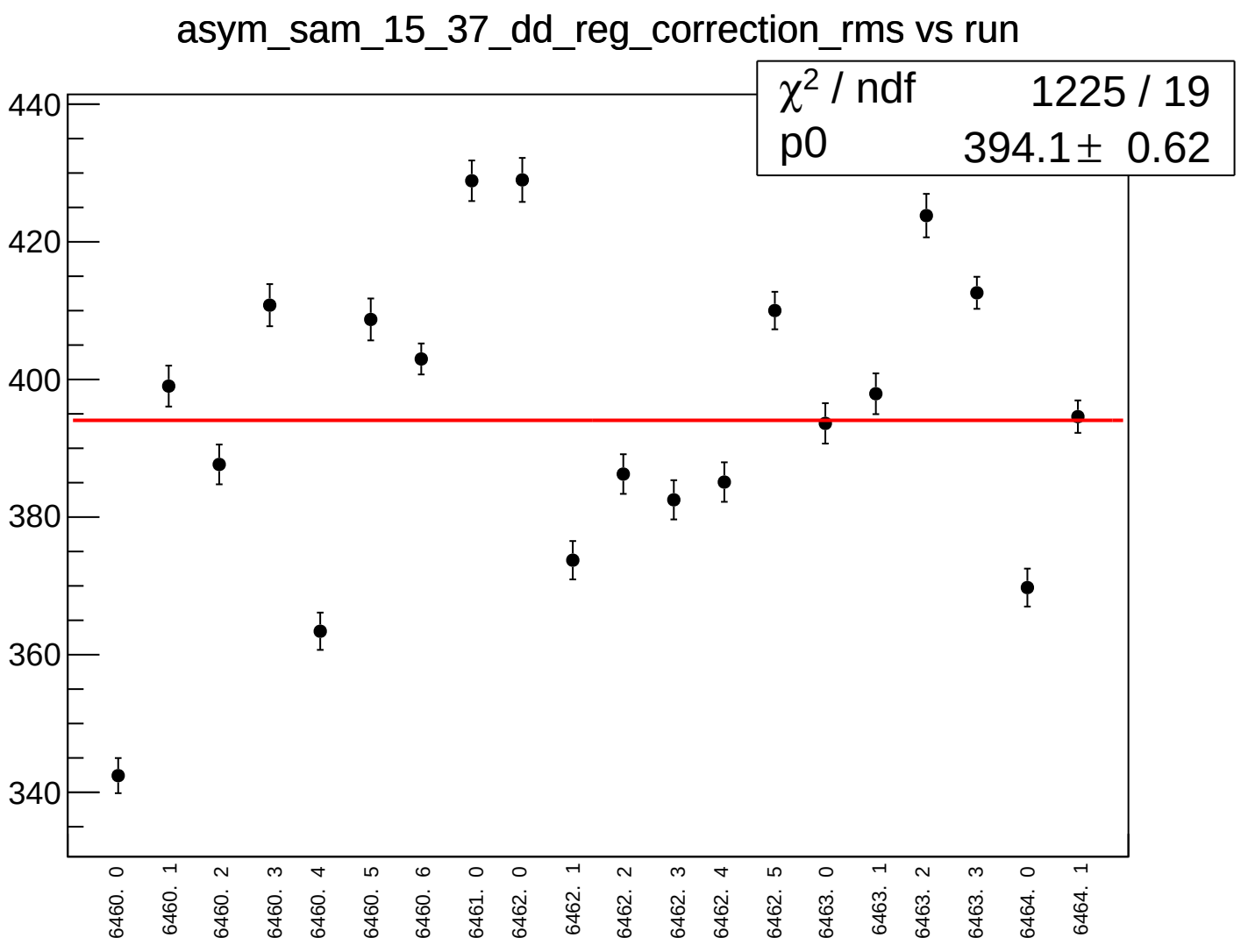

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 15.37 / 19
p0 −65.44 ± 82.7
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.131
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

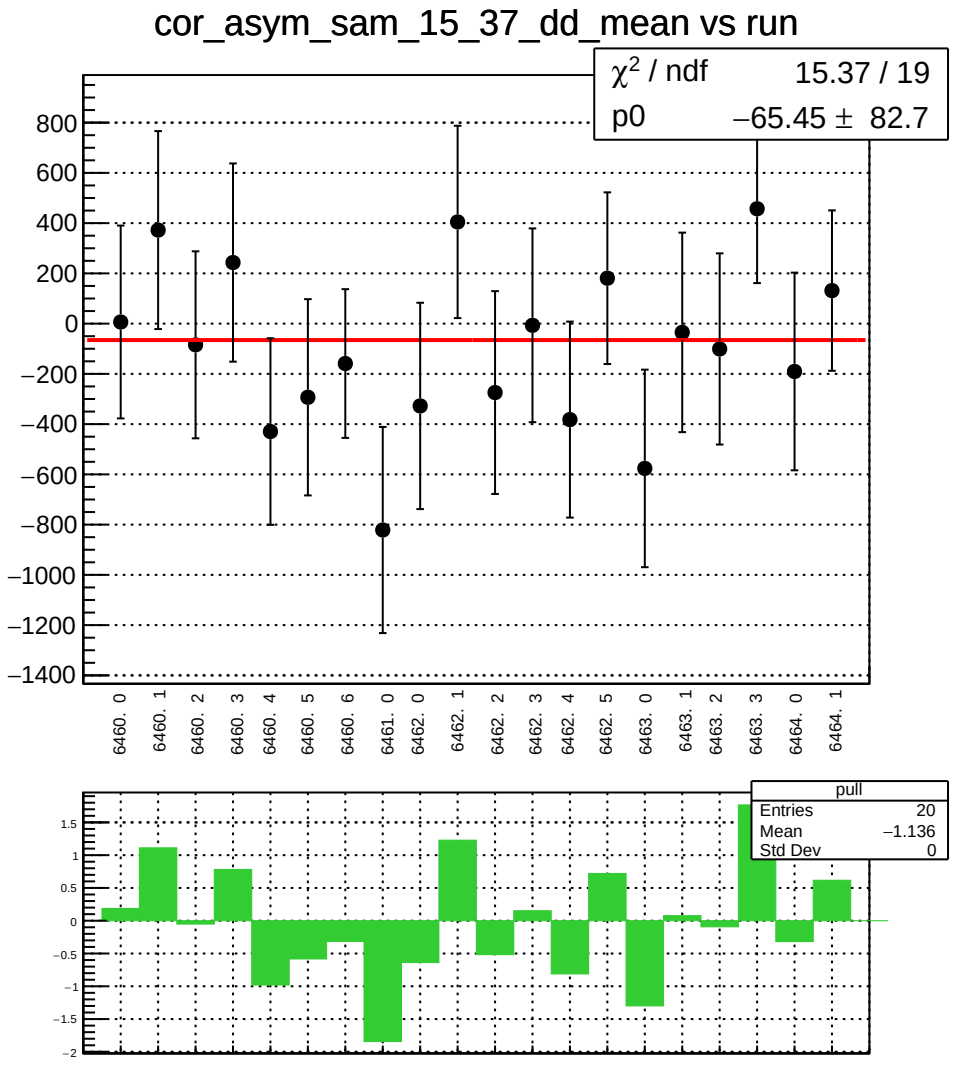

pull1D
Entries 20
Mean −0.04034
Std Dev 0.8757
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

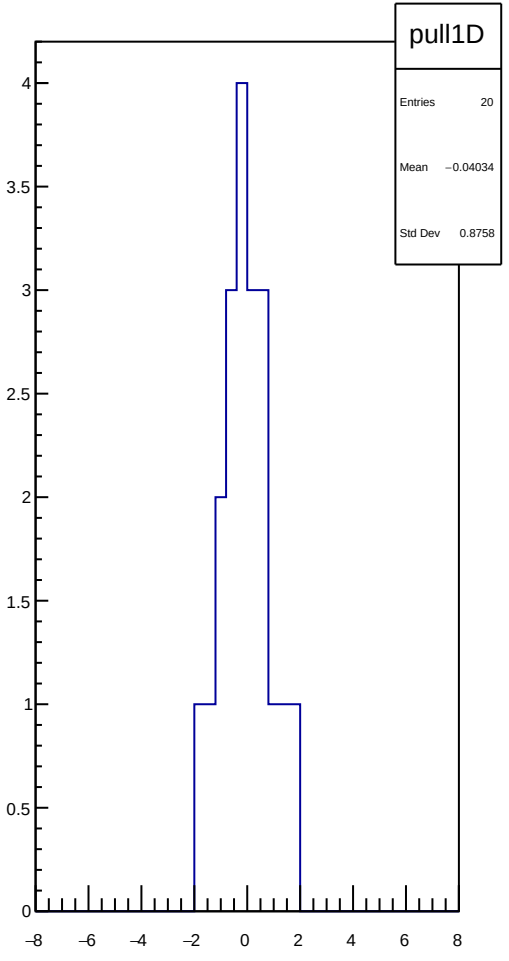

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 523.2 / 19
p0 37.2 ± 0.05848
43
42
41
40
39
38
37
36
35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

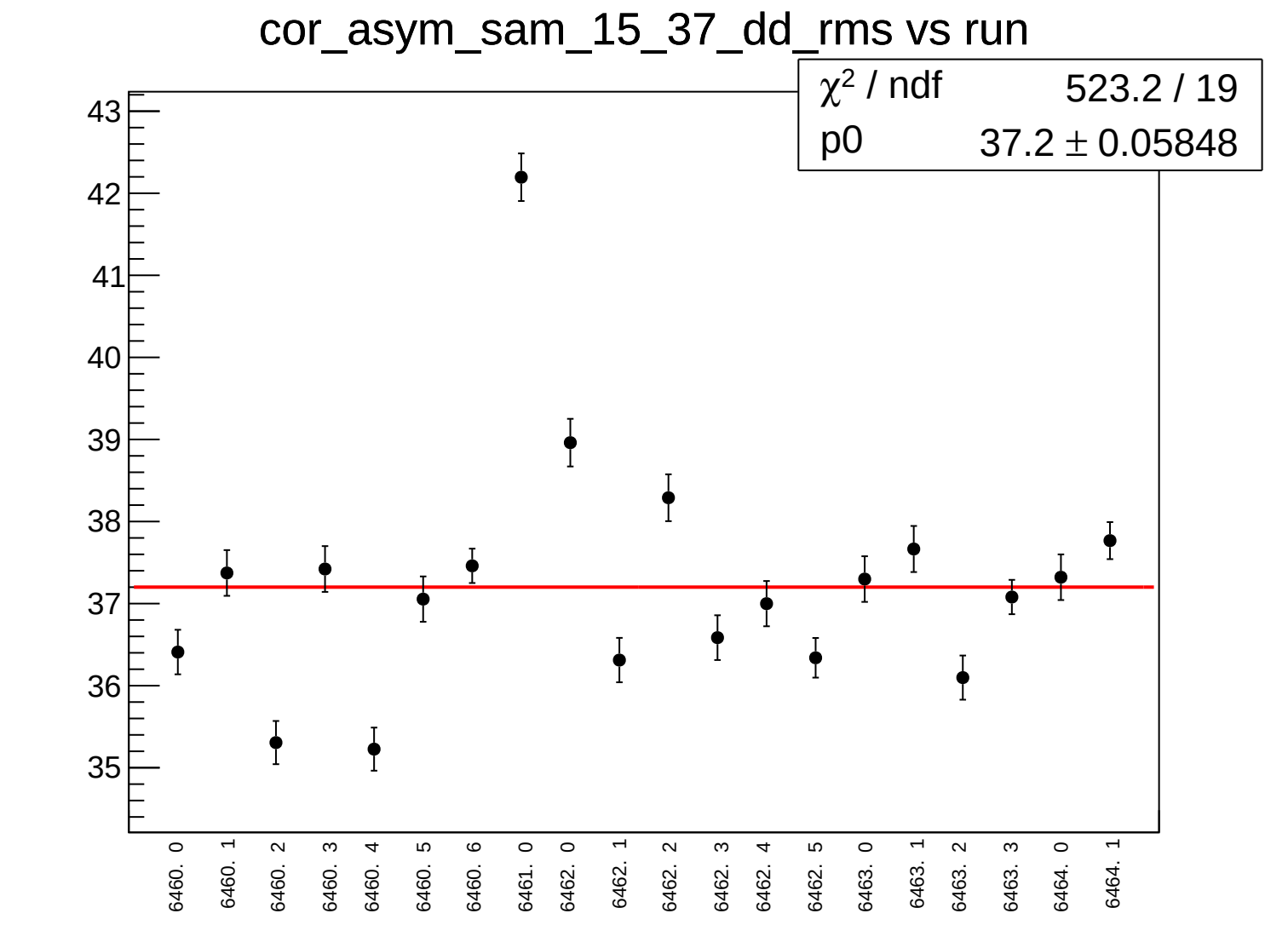

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 10.67 / 19
p0 81.39 ± 876.8
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 78.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1

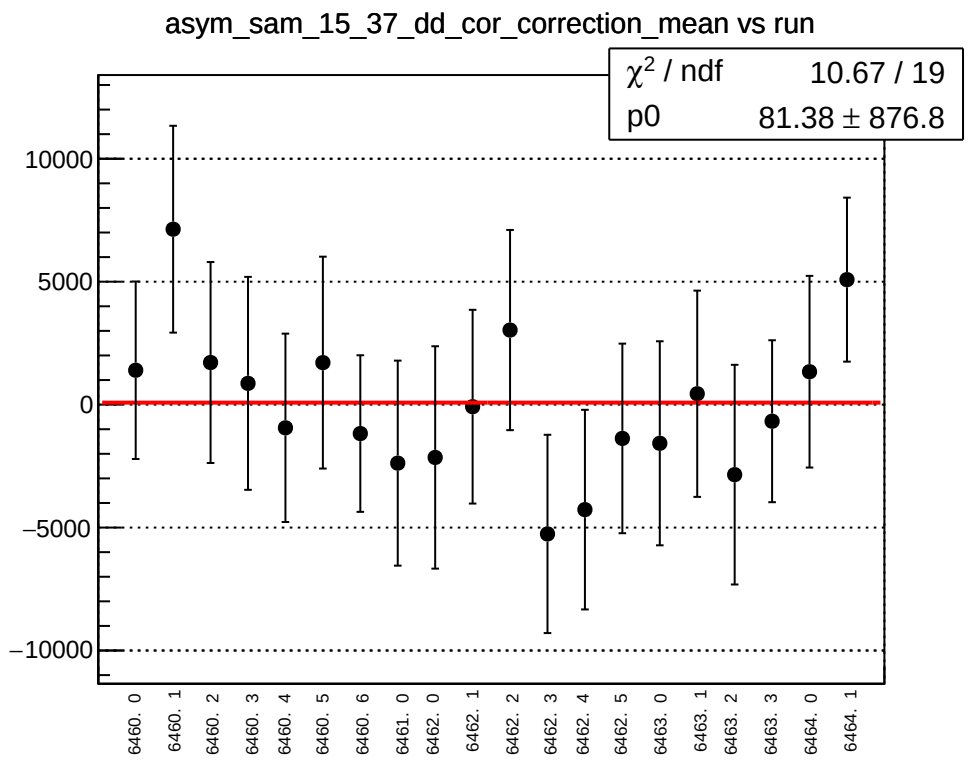

pull1D
Entries 20
Mean −0.01058
Std Dev 0.7305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

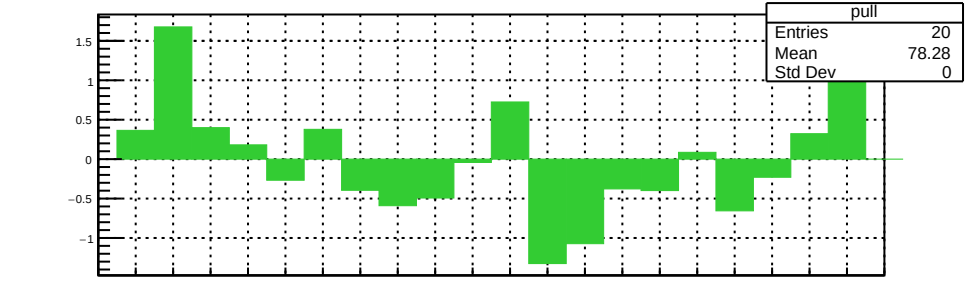

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1225 / 19
p0 394.1 ± 0.62
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

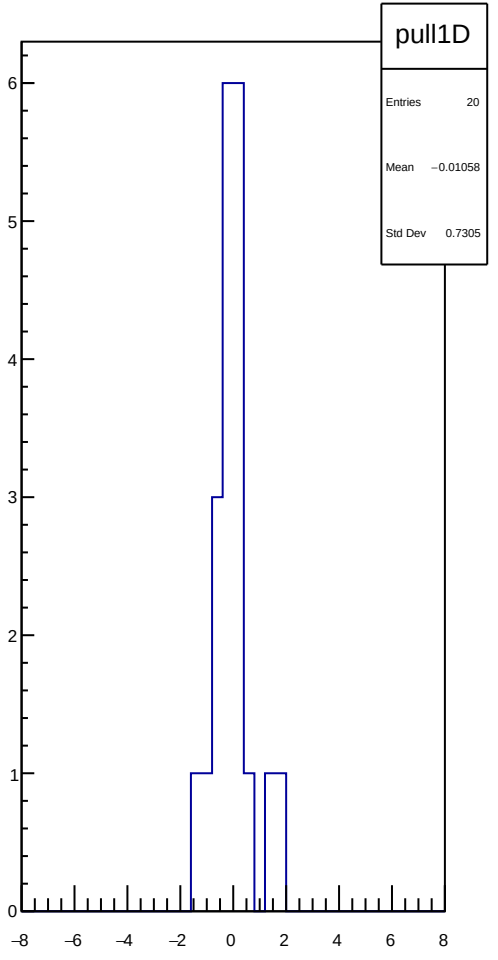

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 15.37 / 19
p0 −65.45 ± 82.7
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.136
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

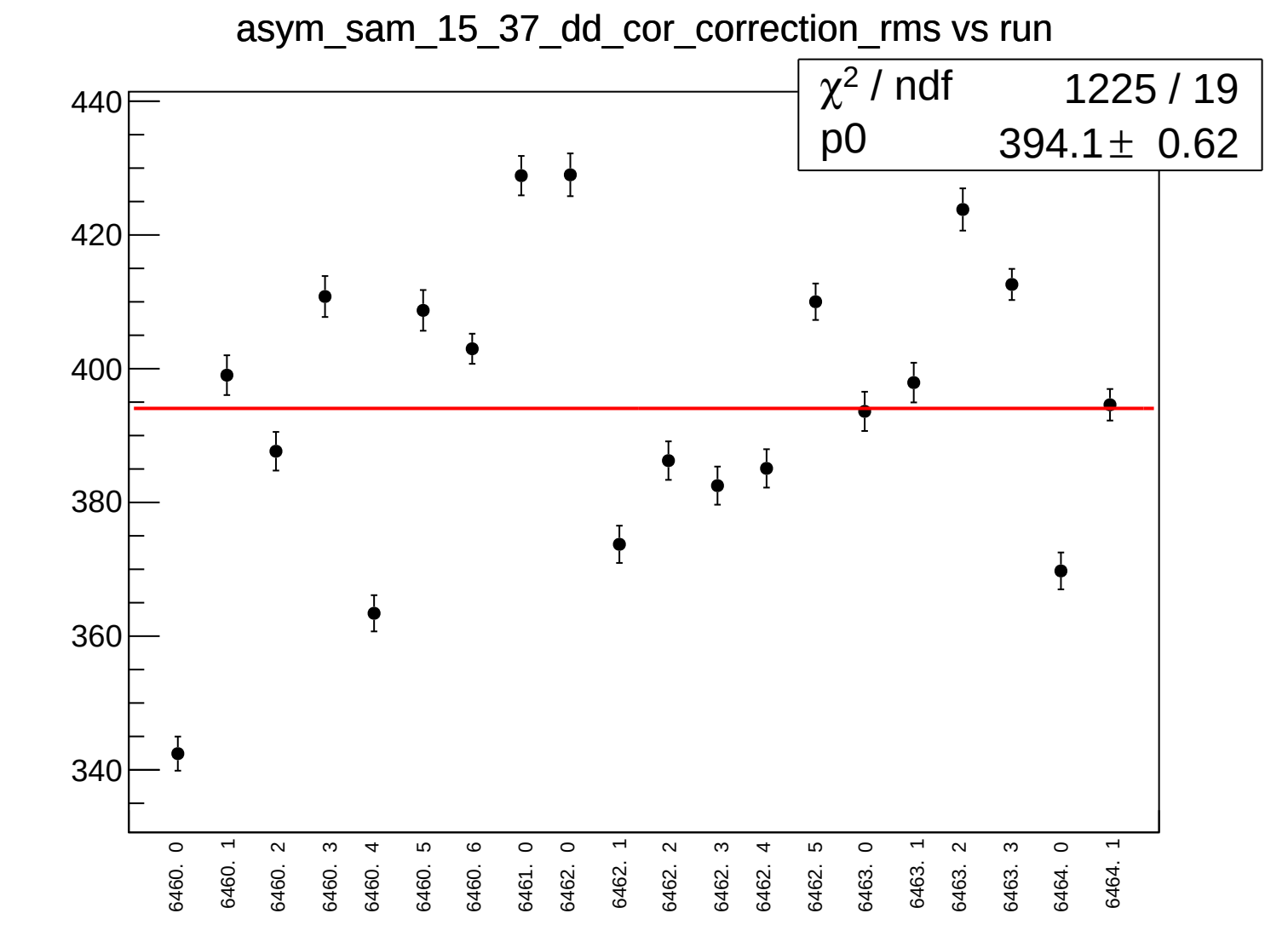

pull1D
Entries 20
Mean −0.04034
Std Dev 0.8758
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

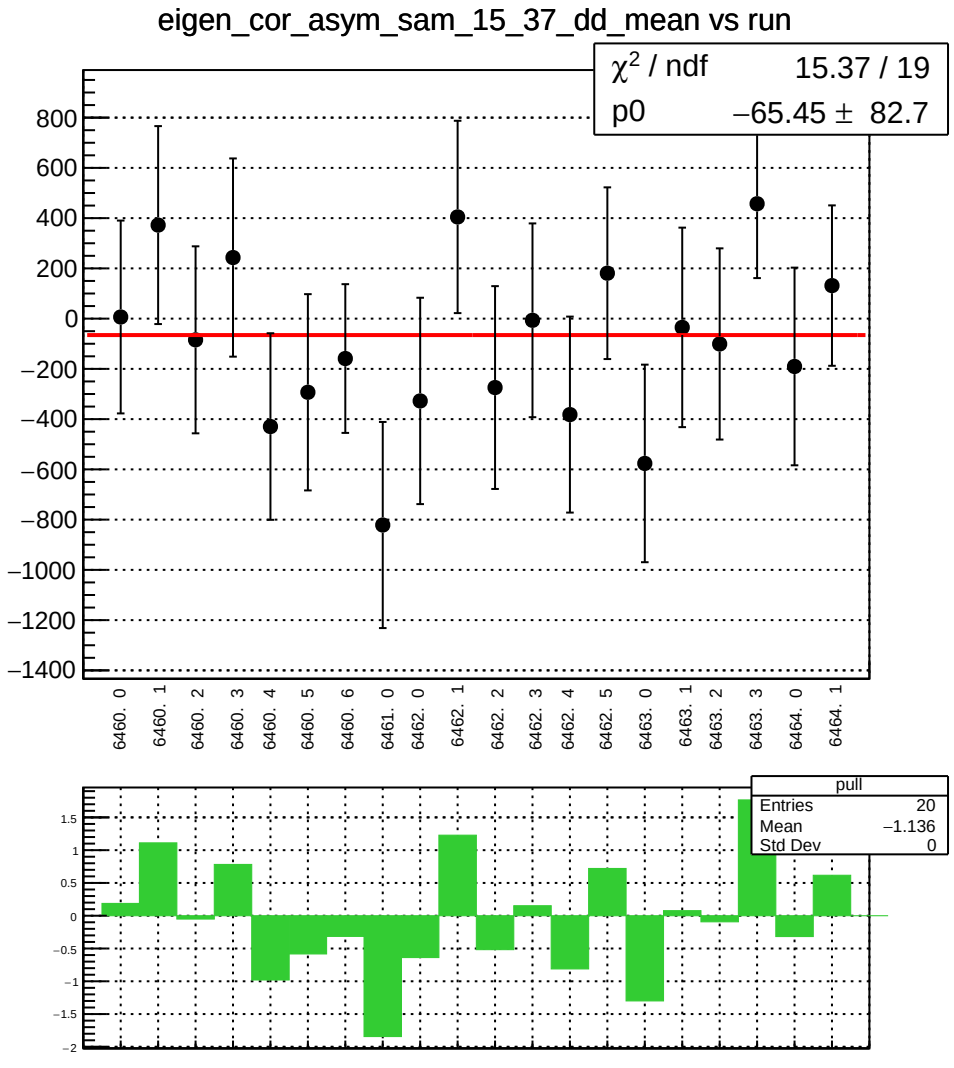

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 523.2 / 19
p0 37.2 ± 0.05848
43
42
41
40
39
38
37
36
35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

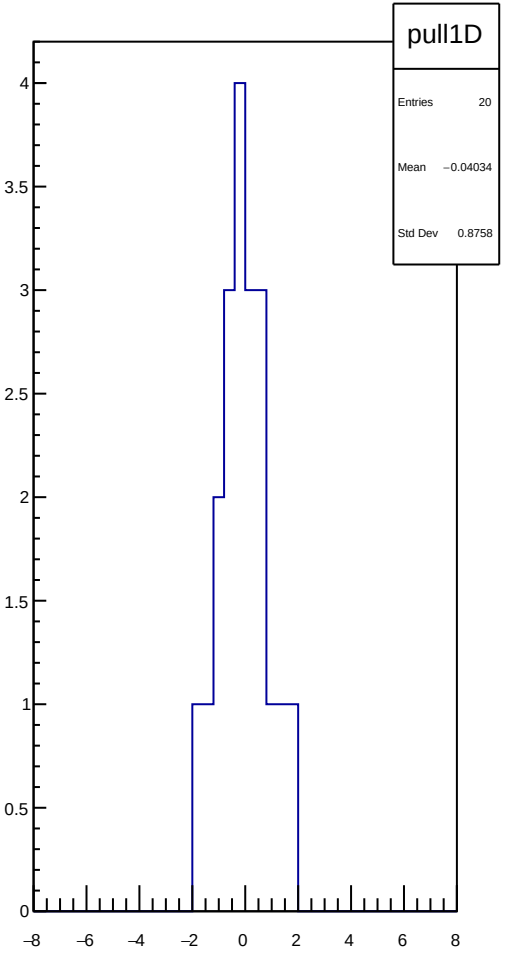

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 10.67 / 19
p0 81.38 ± 876.8
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

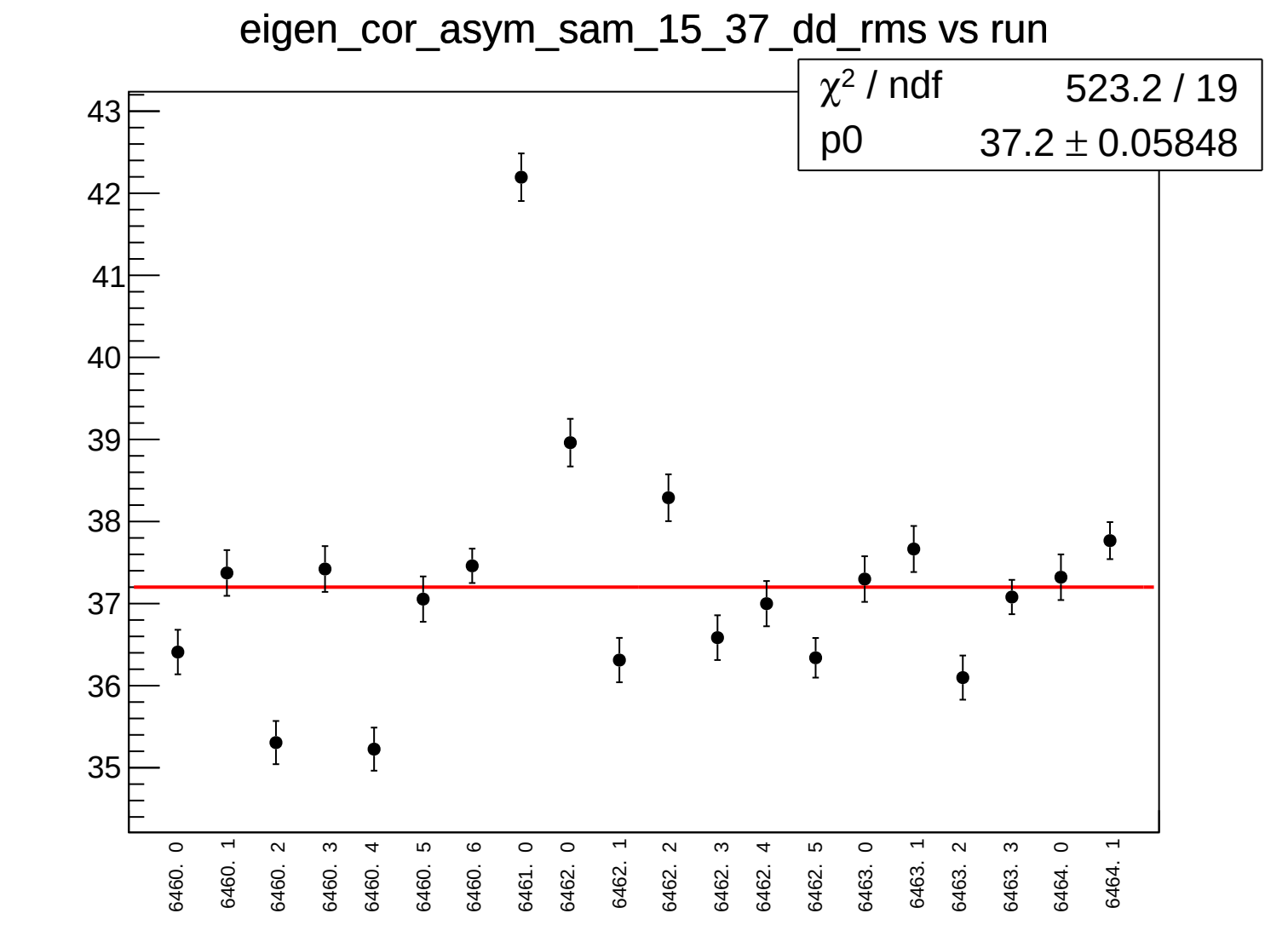

pull
Entries 20
Mean 78.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1

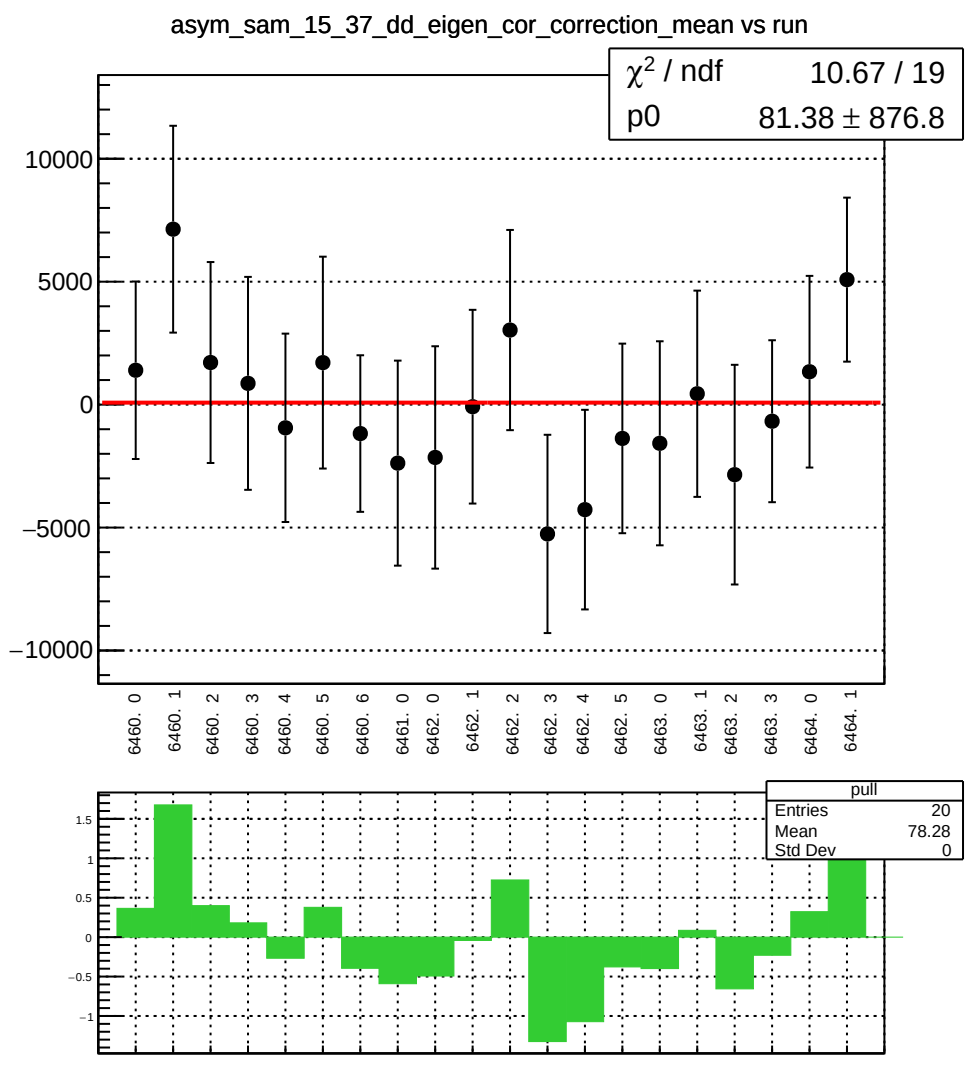

pull1D
Entries 20
Mean −0.01058
Std Dev 0.7305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

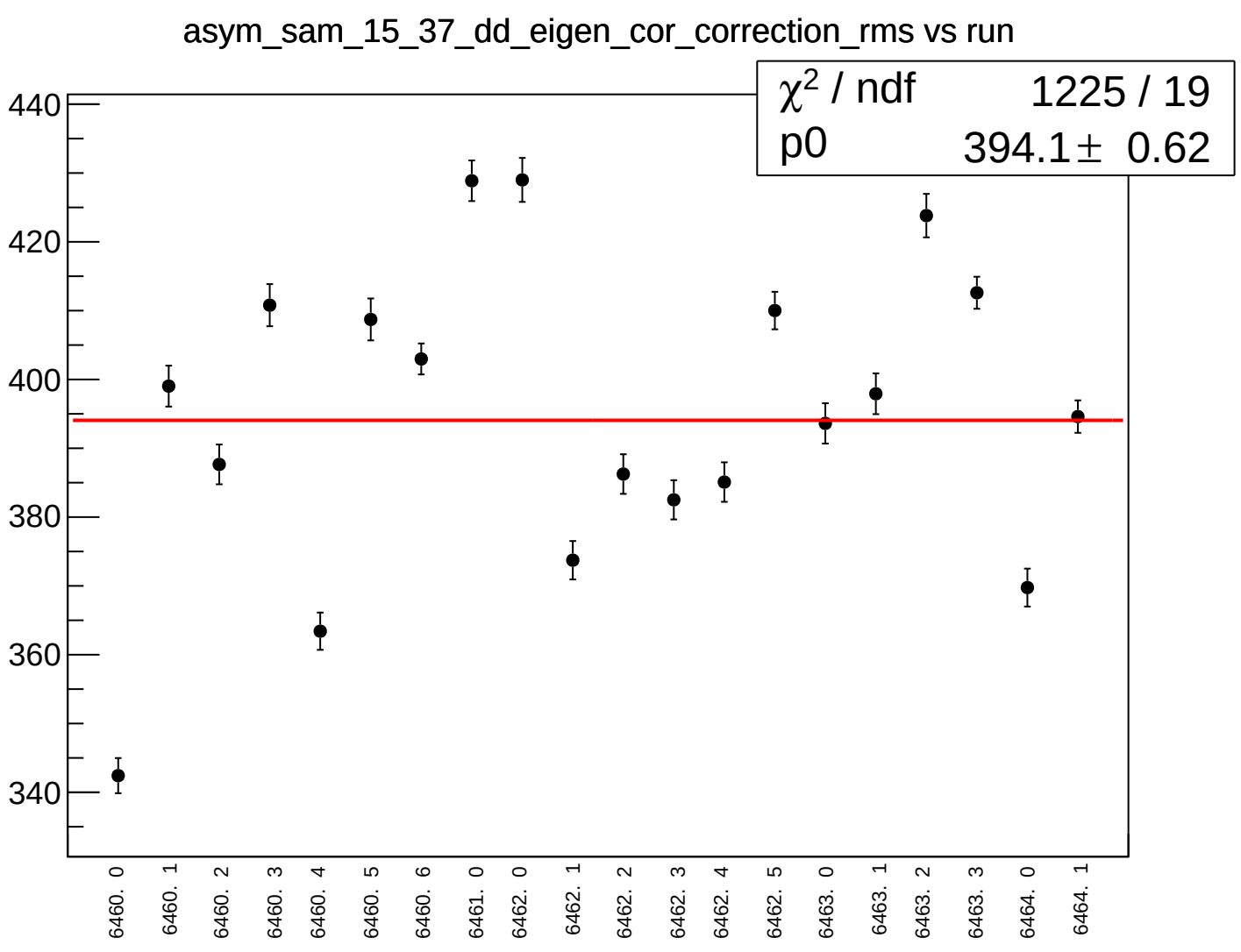

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1225 / 19
p0 394.1 ± 0.62
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

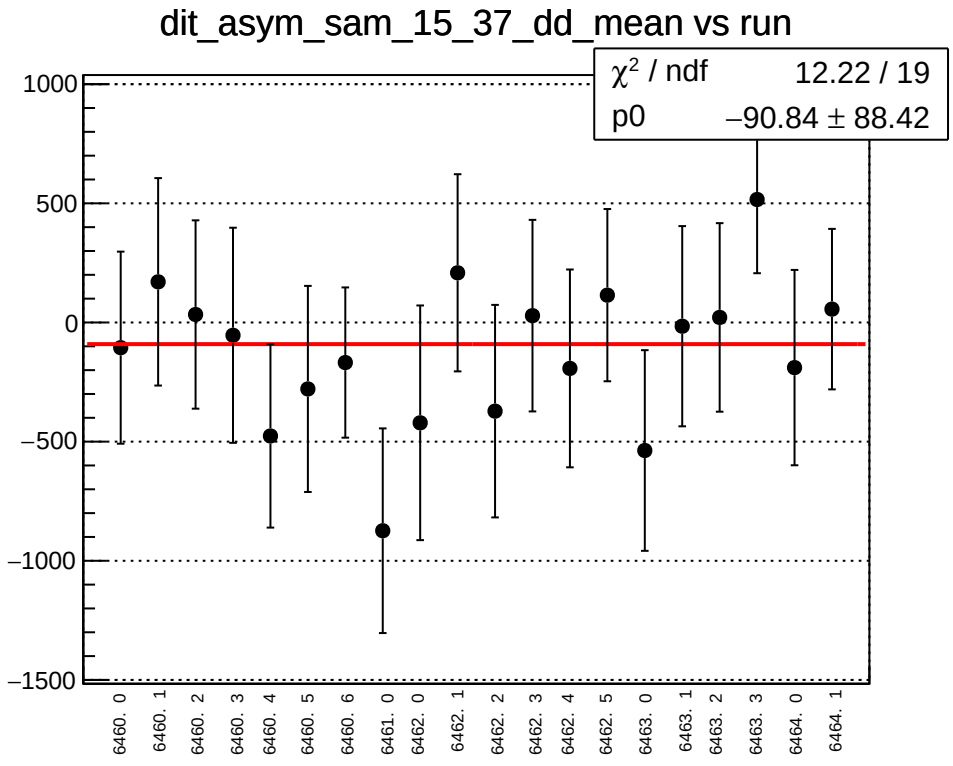

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 15.37 / 19
p0 −65.45 ± 82.7
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.136
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

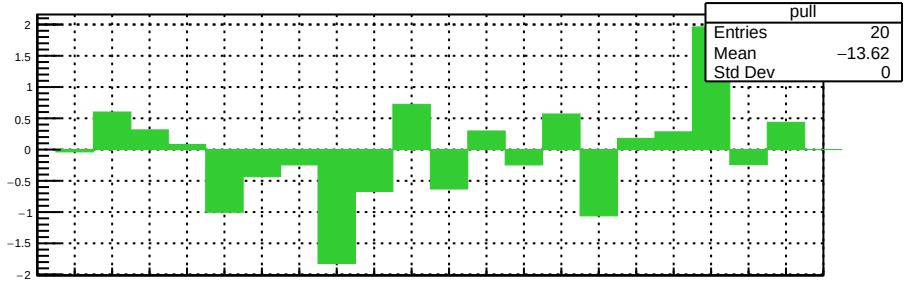

pull1D
Entries 20
Mean −0.04034
Std Dev 0.8758
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

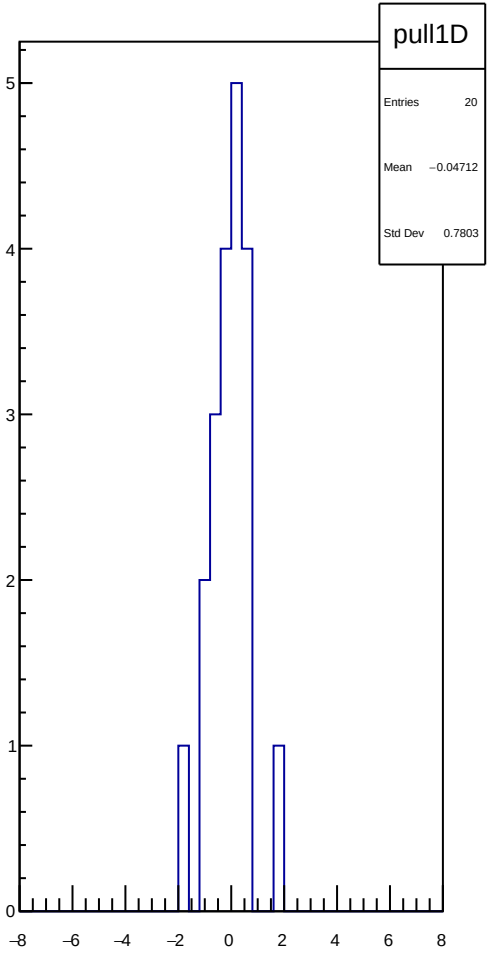

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 523.2 / 19
p0 37.2 ± 0.05848
43
42
41
40
39
38
37
36
35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

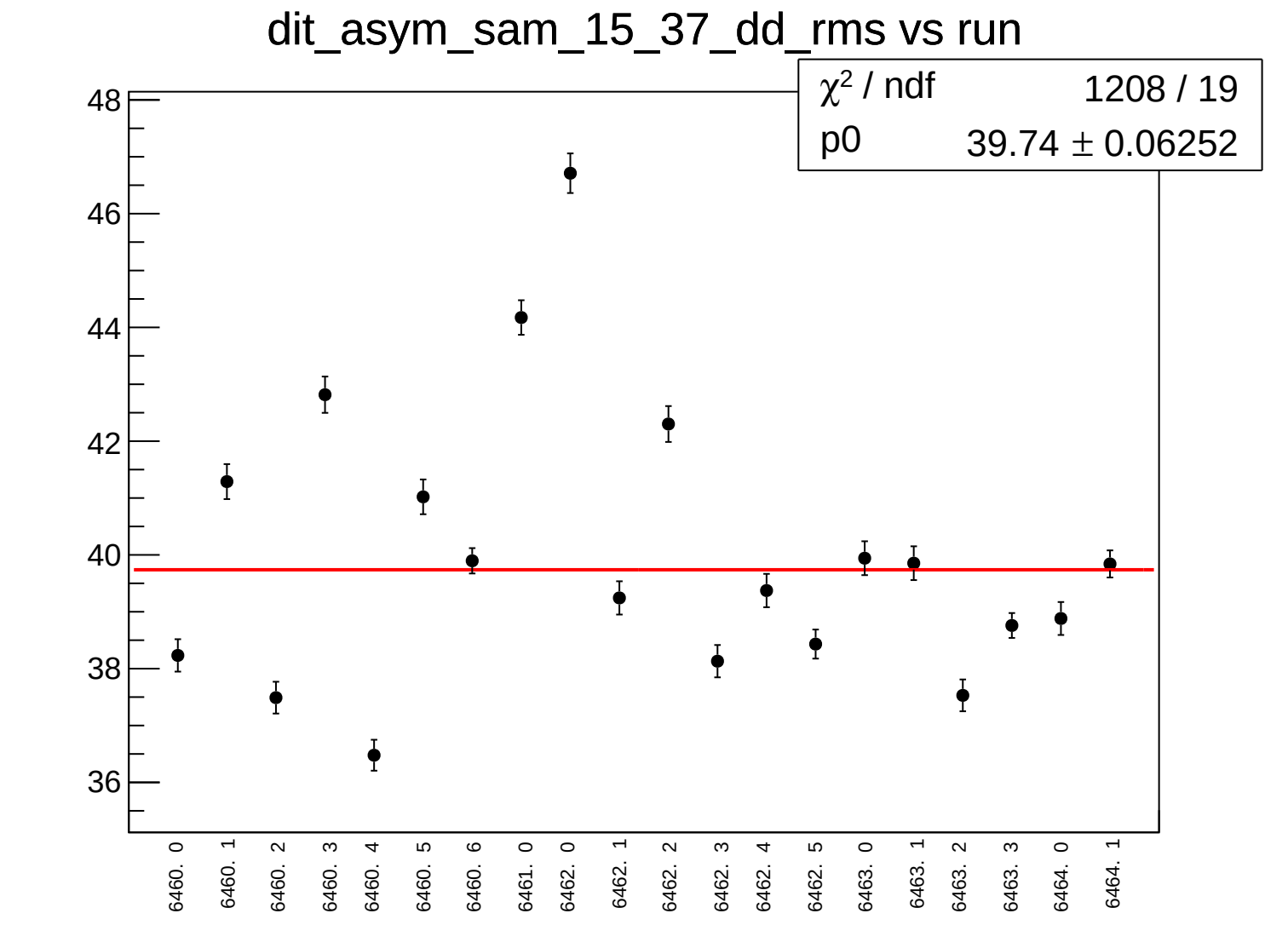

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 10.67 / 19
p0 81.38 ± 876.8
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 78.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01058
Std Dev 0.7305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

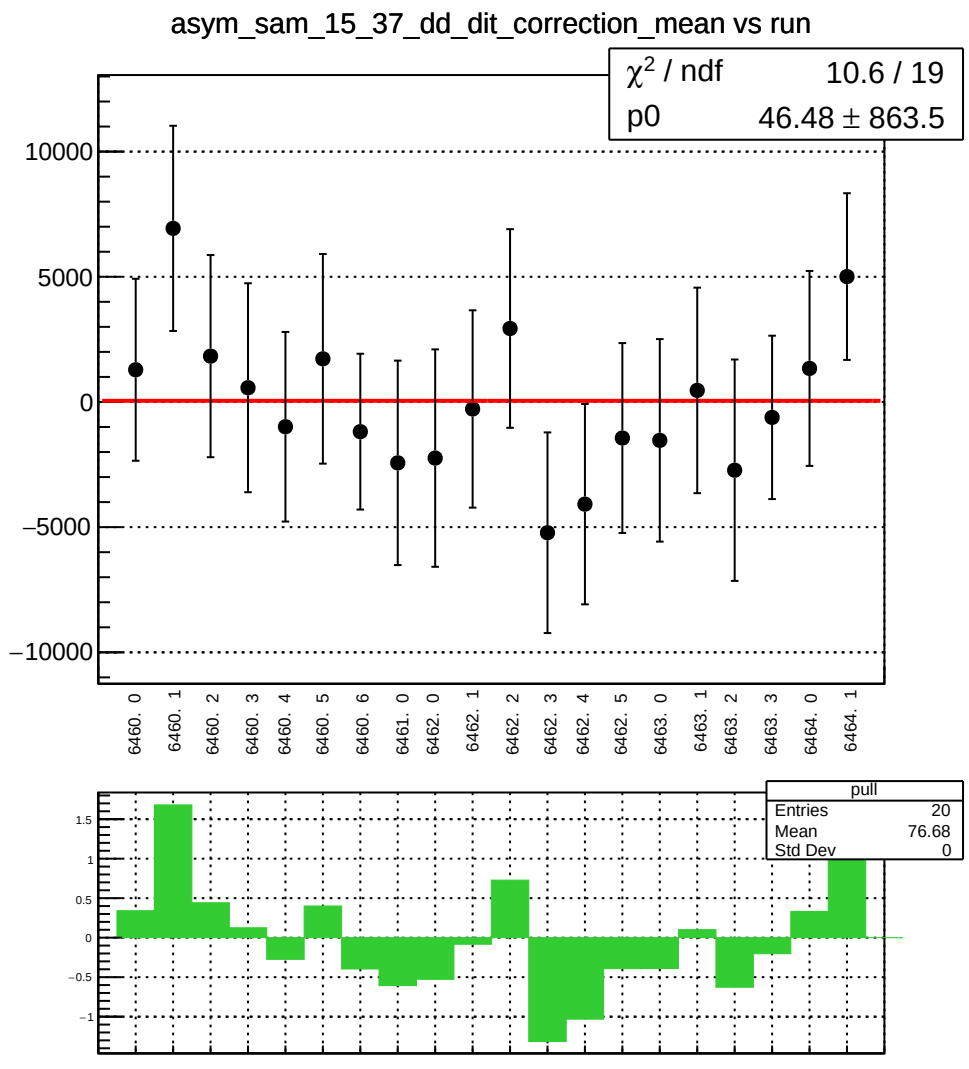

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1225 / 19
p0 394.1 ± 0.62
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

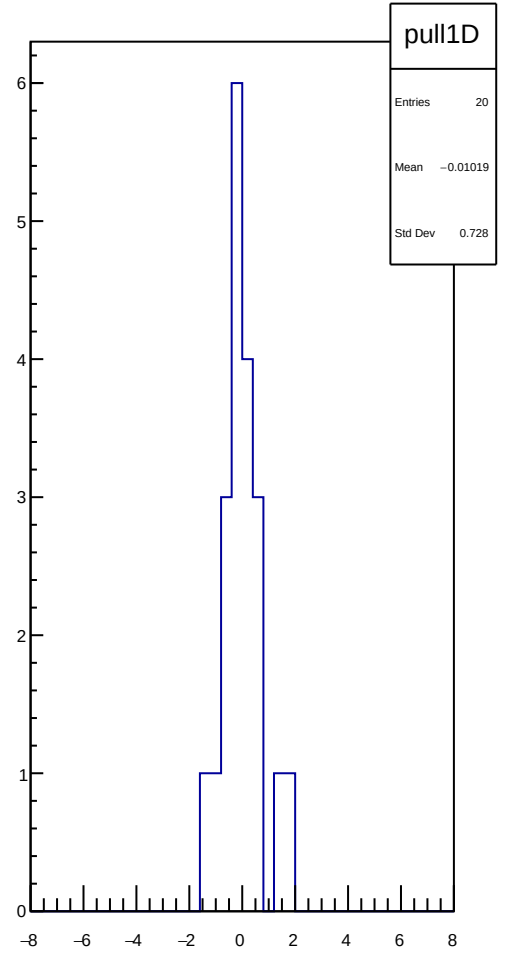

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 12.22 / 19
p0 −90.84 ± 88.42
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

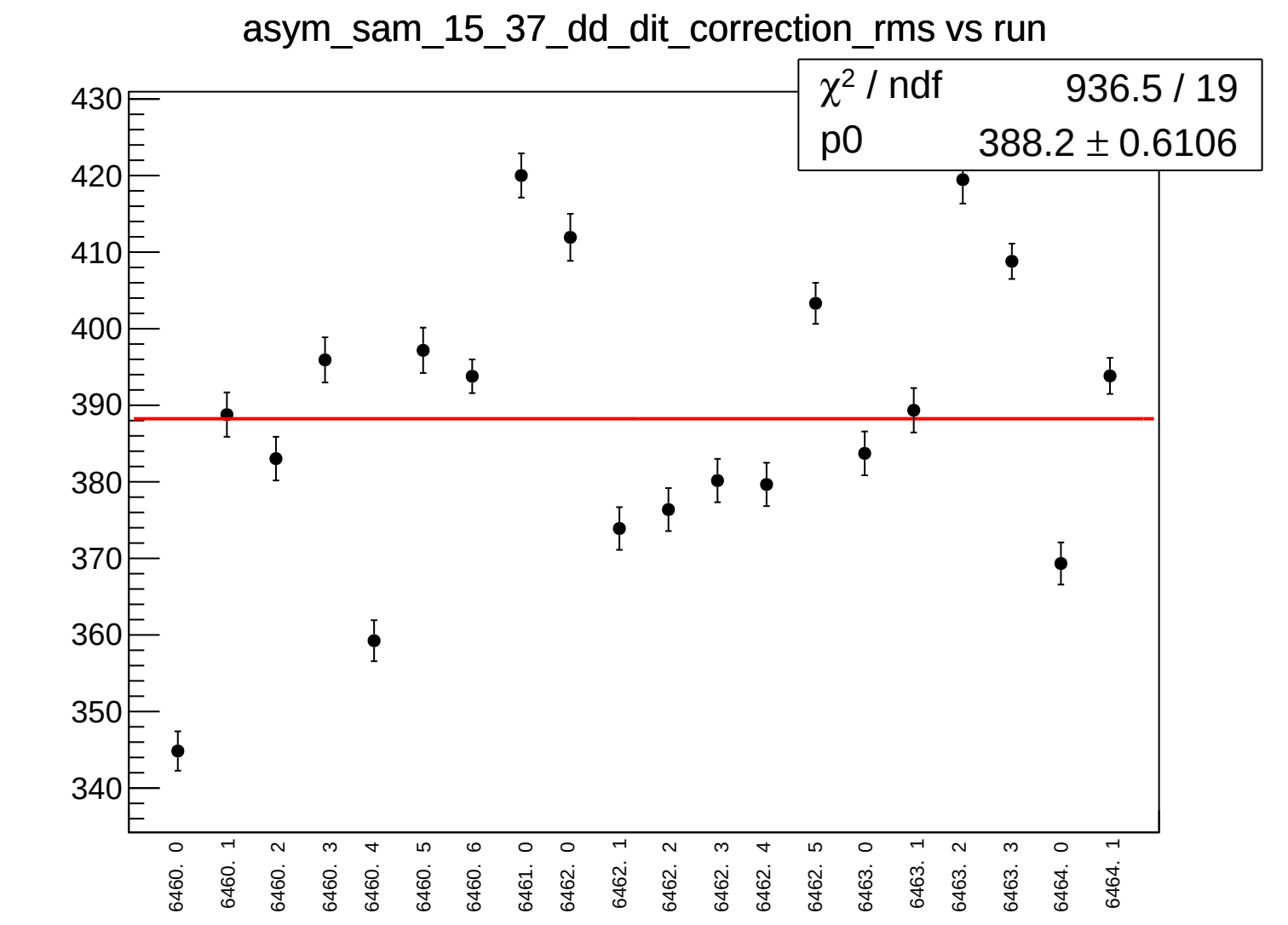

pull
Entries 20
Mean −13.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

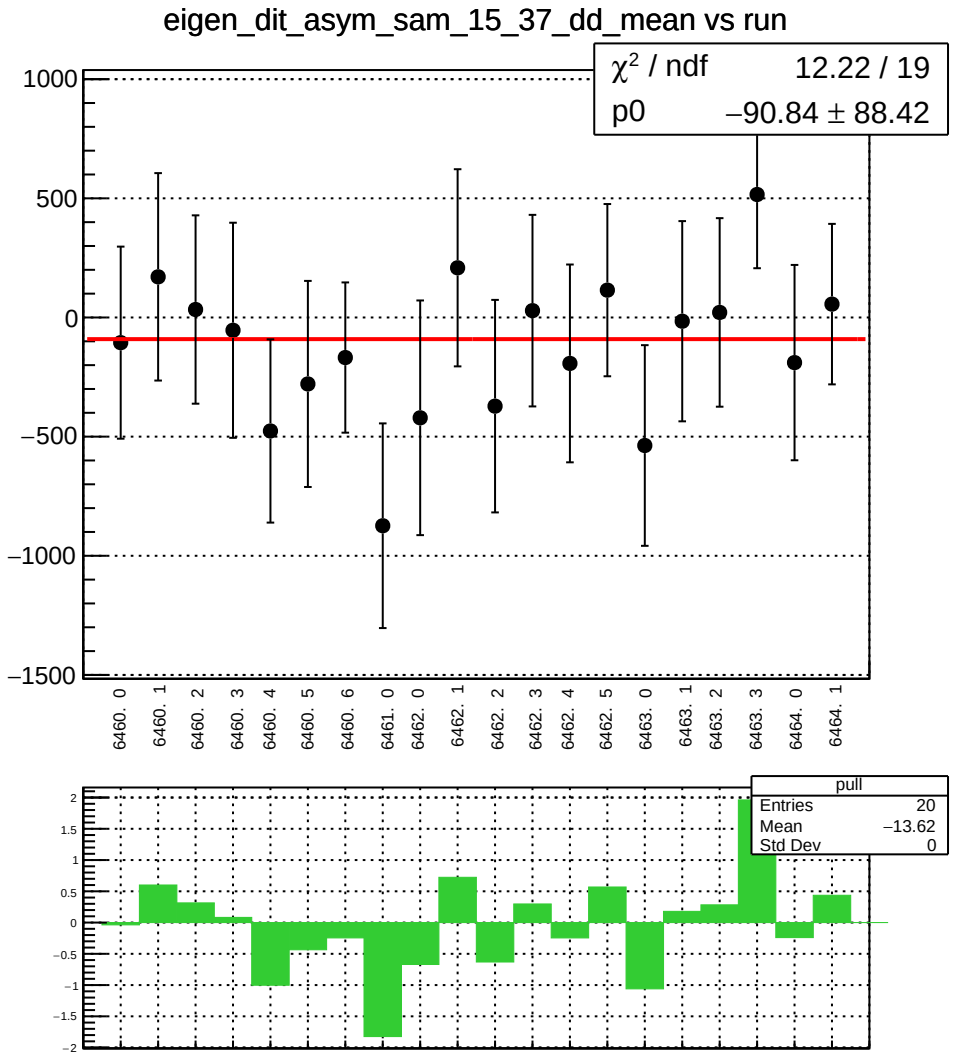

pull1D
Entries 20
Mean −0.04712
Std Dev 0.7803
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

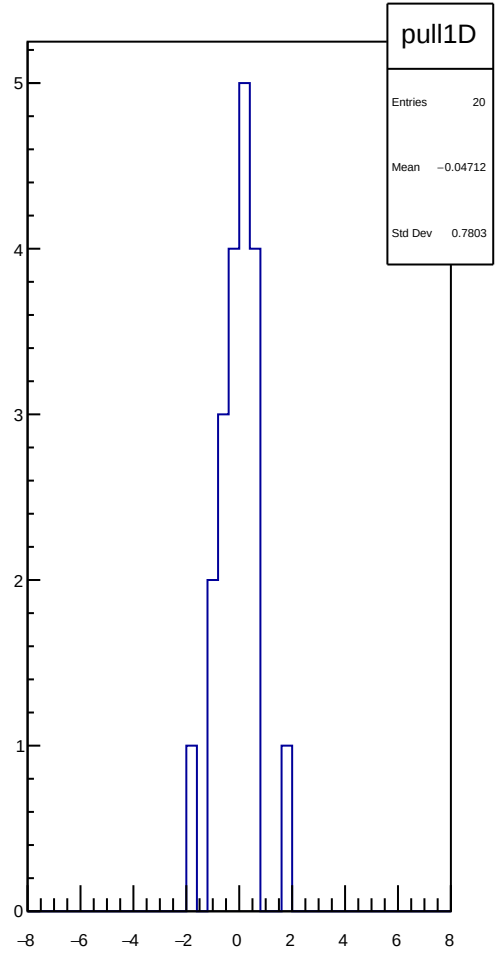

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1208 / 19
p0 39.74 ± 0.06252
48
46
44
42
40
38
36
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

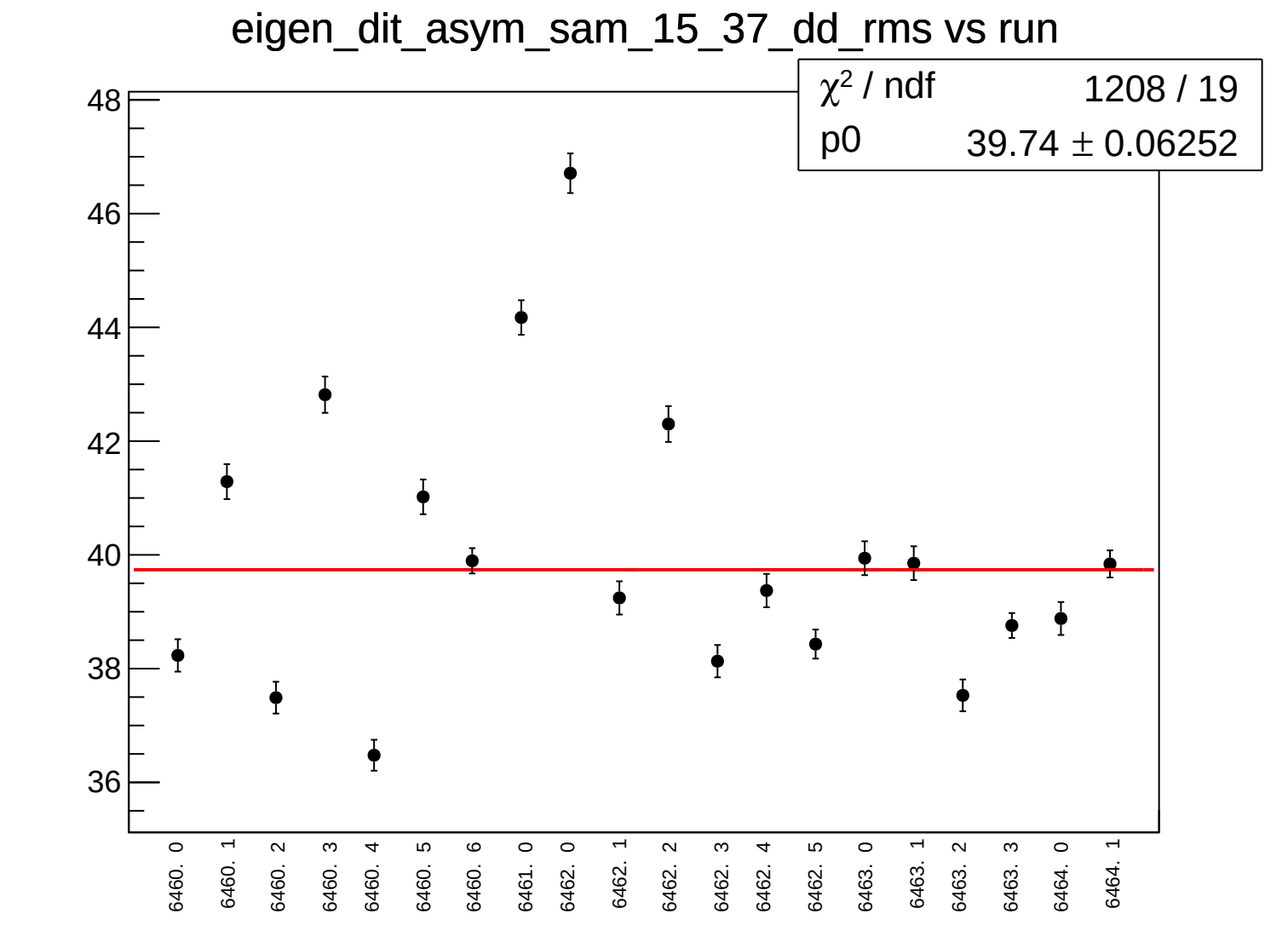

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 10.6 / 19
p0 46.48 ± 863.5
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 76.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1

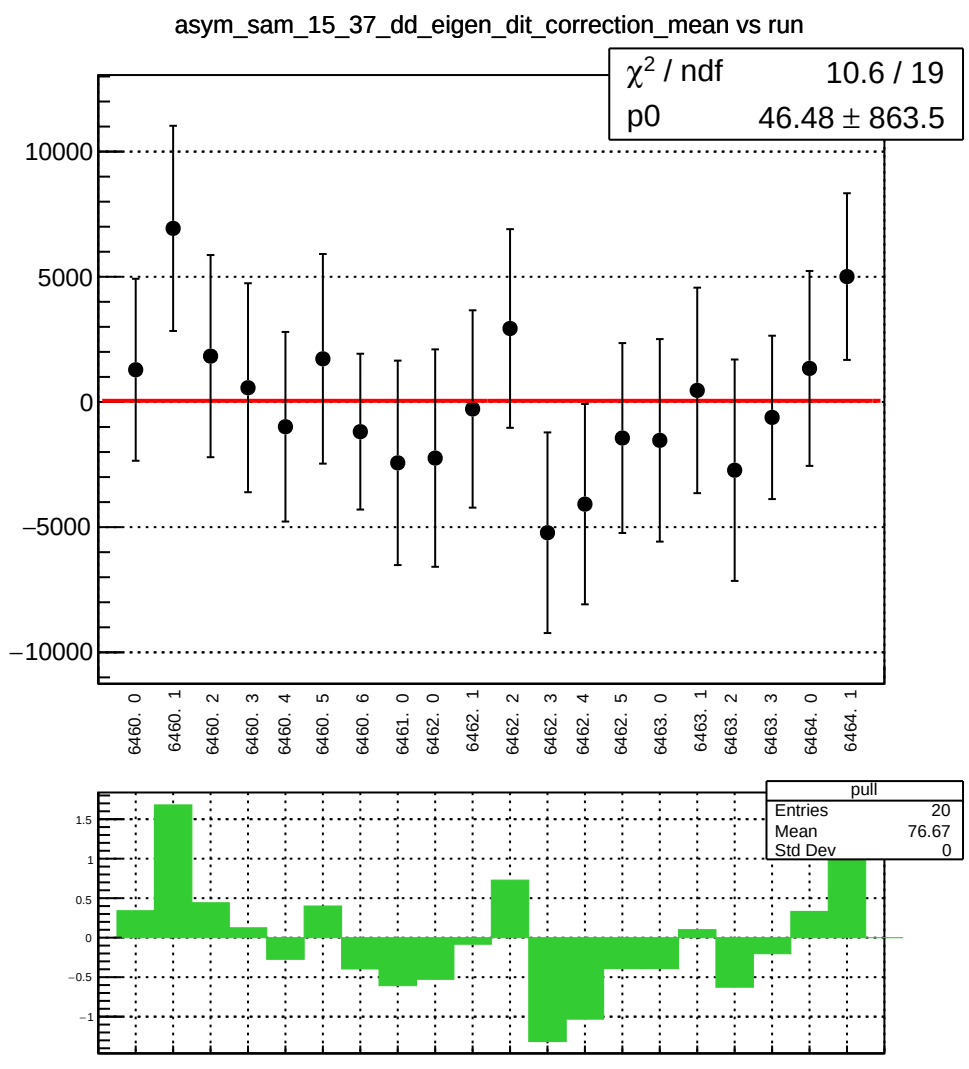

pull1D
Entries 20
Mean −0.01019
Std Dev 0.728
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

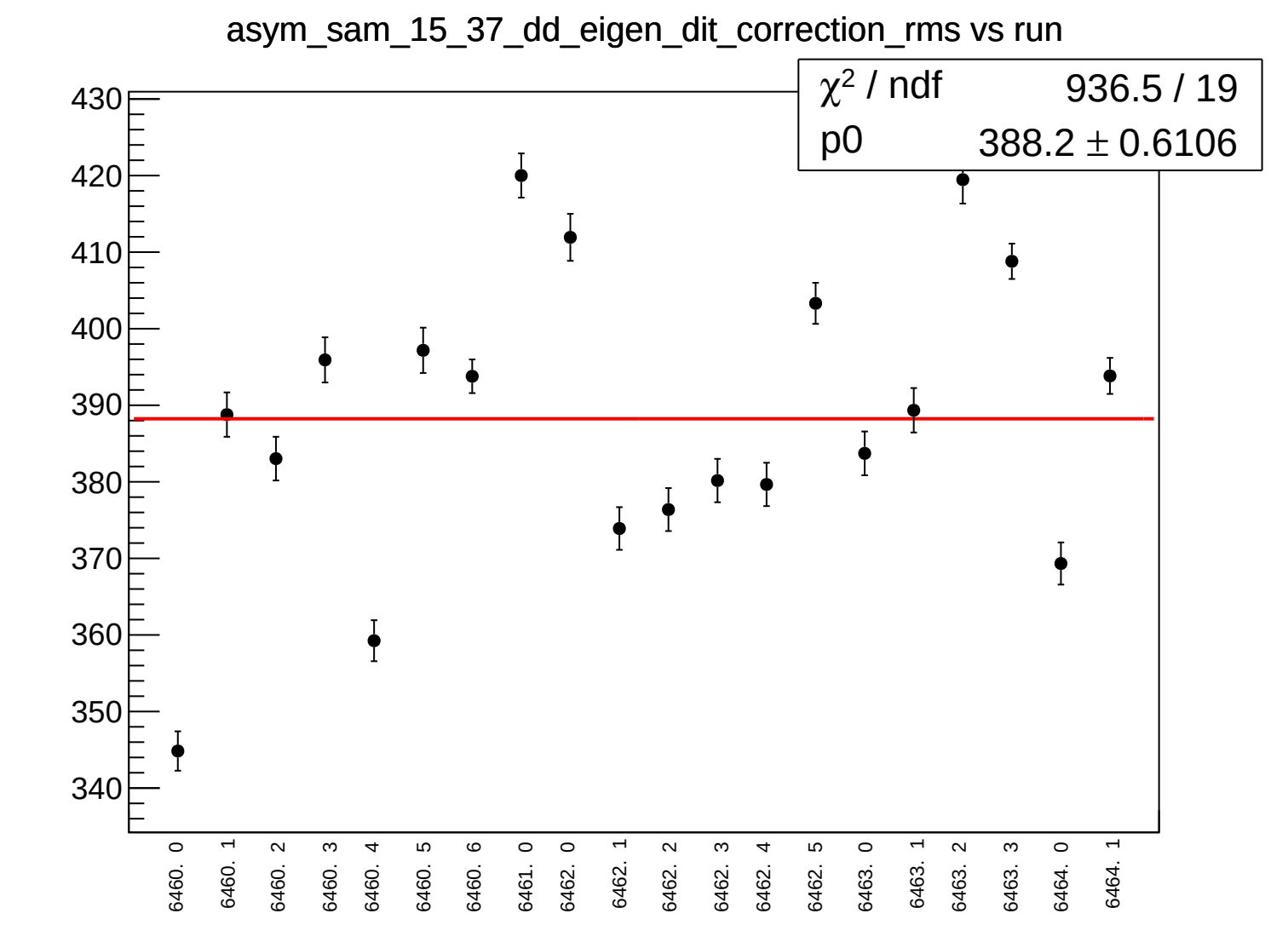

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 936.5 / 19
p0 388.2 ± 0.6106
430
420
410
400
390
380
370
360
350
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

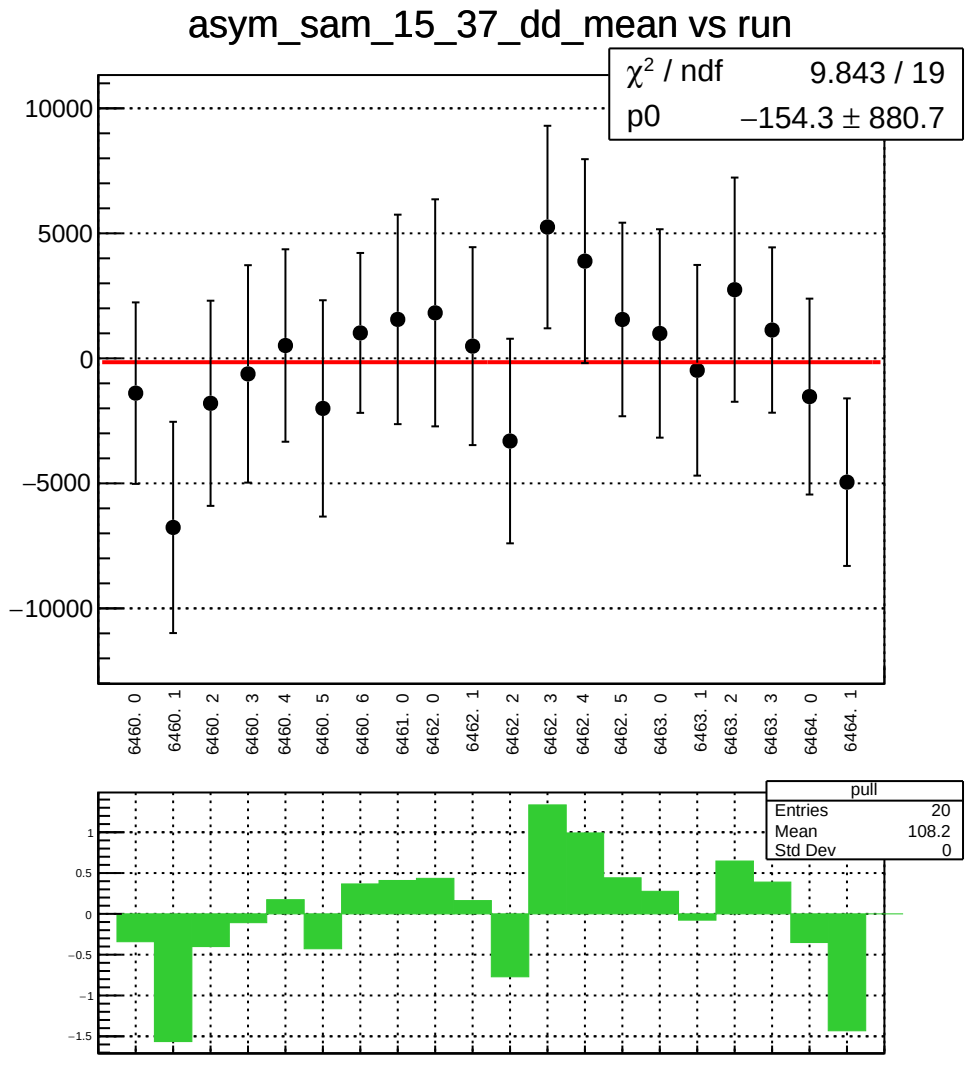

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 12.22 / 19
p0 −90.84 ± 88.42
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −13.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

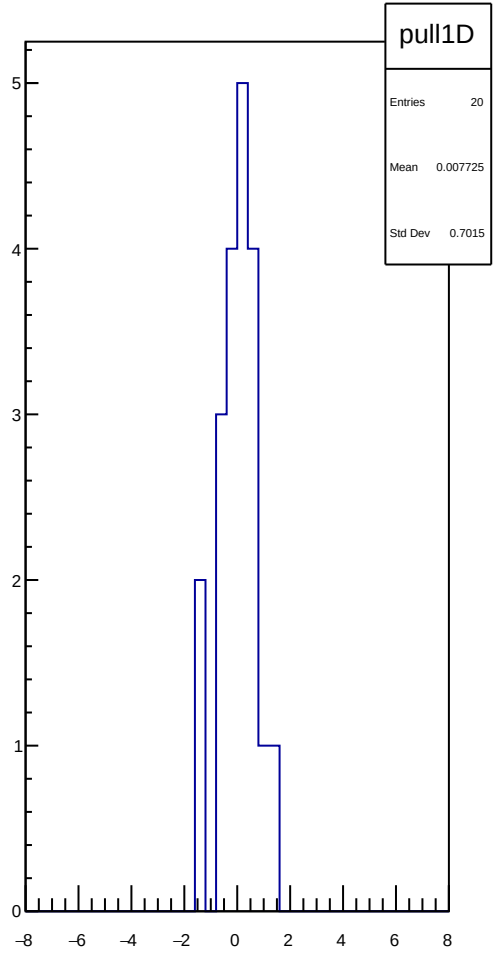

pull1D
Entries 20
Mean −0.04712
Std Dev 0.7803
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

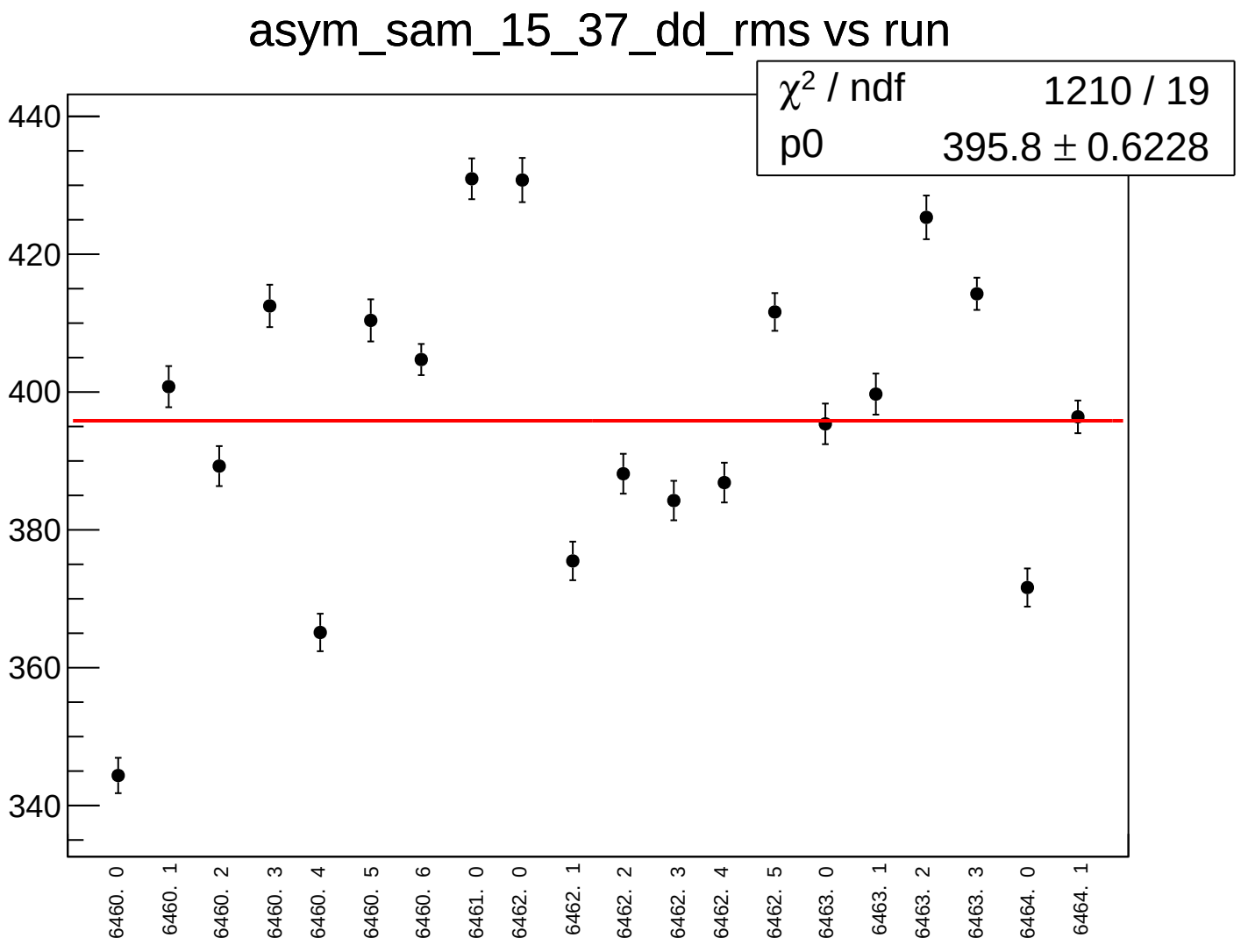

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1208 / 19
p0 39.74 ± 0.06252
48
46
44
42
40
38
36
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

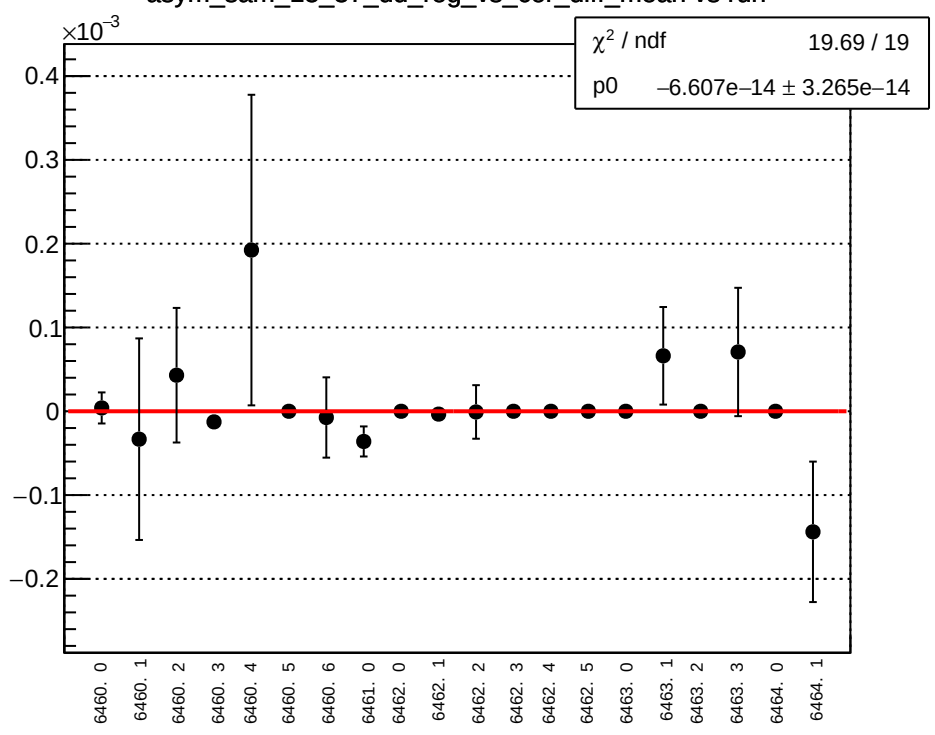

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 10.6 / 19
p0 46.48 ± 863.5
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 76.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01019
Std Dev 0.728
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

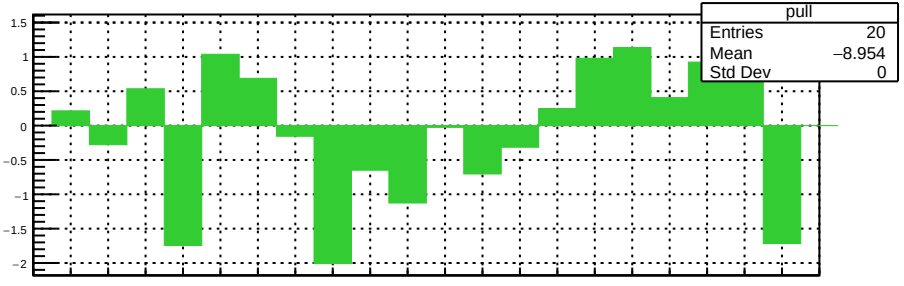

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 936.5 / 19
p0 388.2 ± 0.6106
430
420
410
400
390
380
370
360
350
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

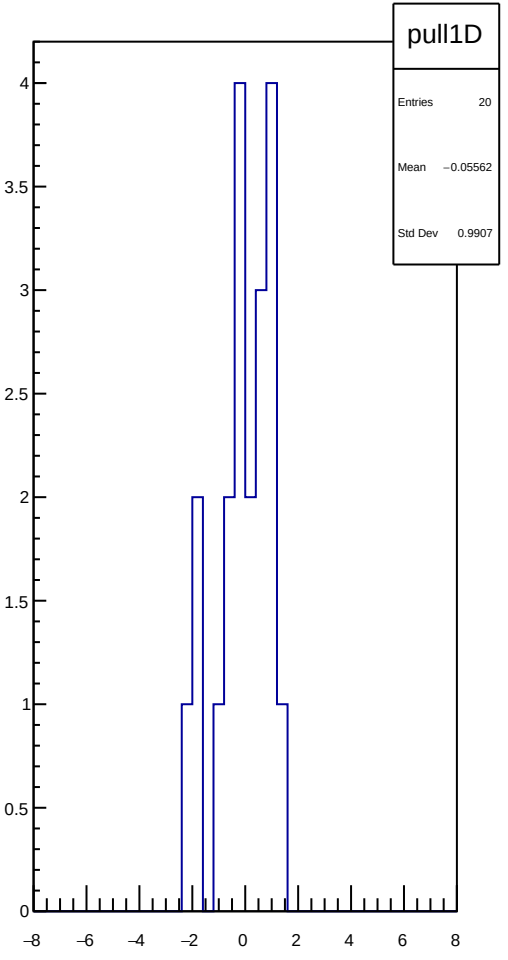

asym_sam_15_37_dd_mean vs run
χ² / ndf 9.843 / 19
p0 −154.3 ± 880.7
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 108.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

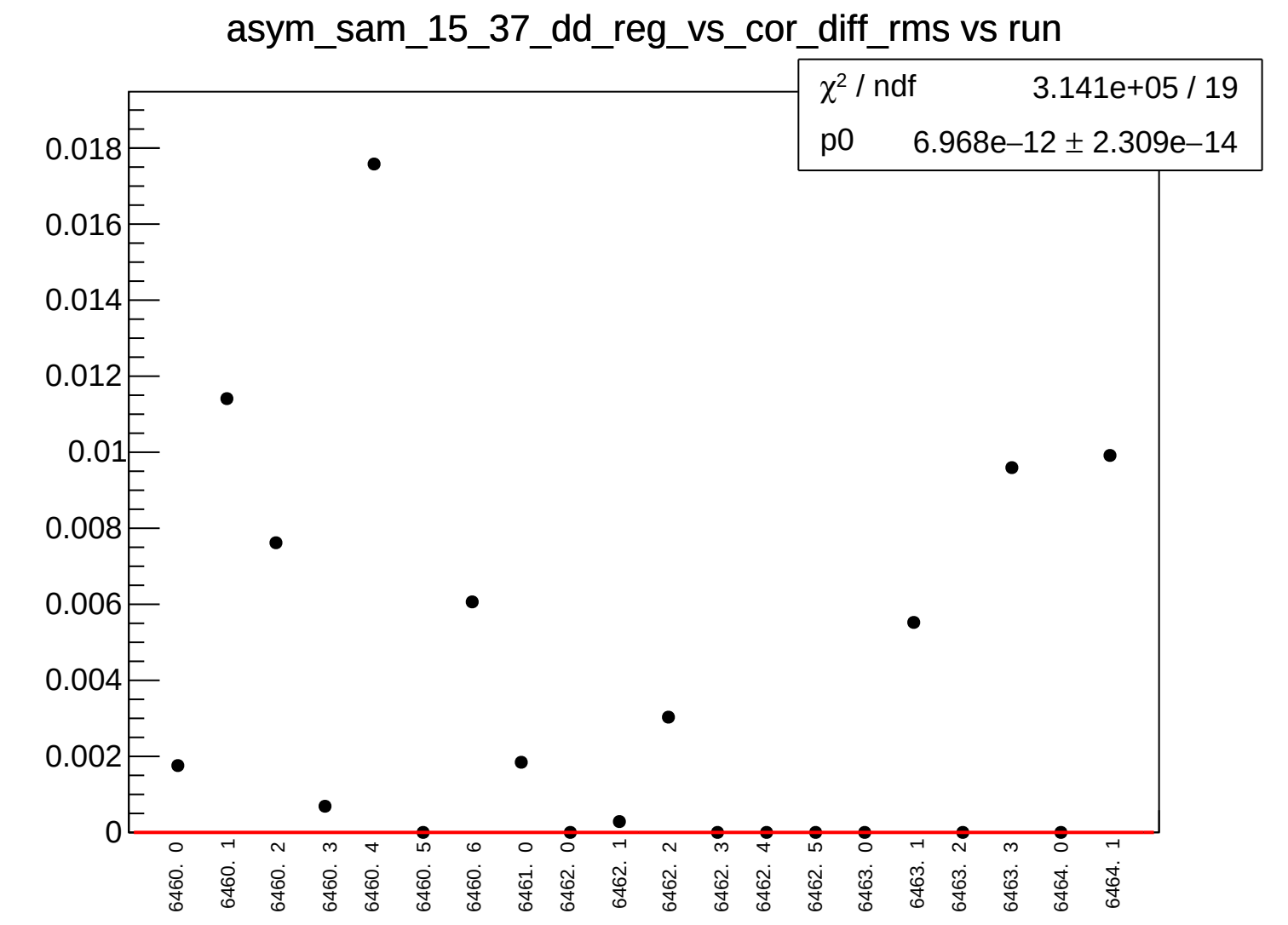

pull1D
Entries 20
Mean 0.007725
Std Dev 0.7015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

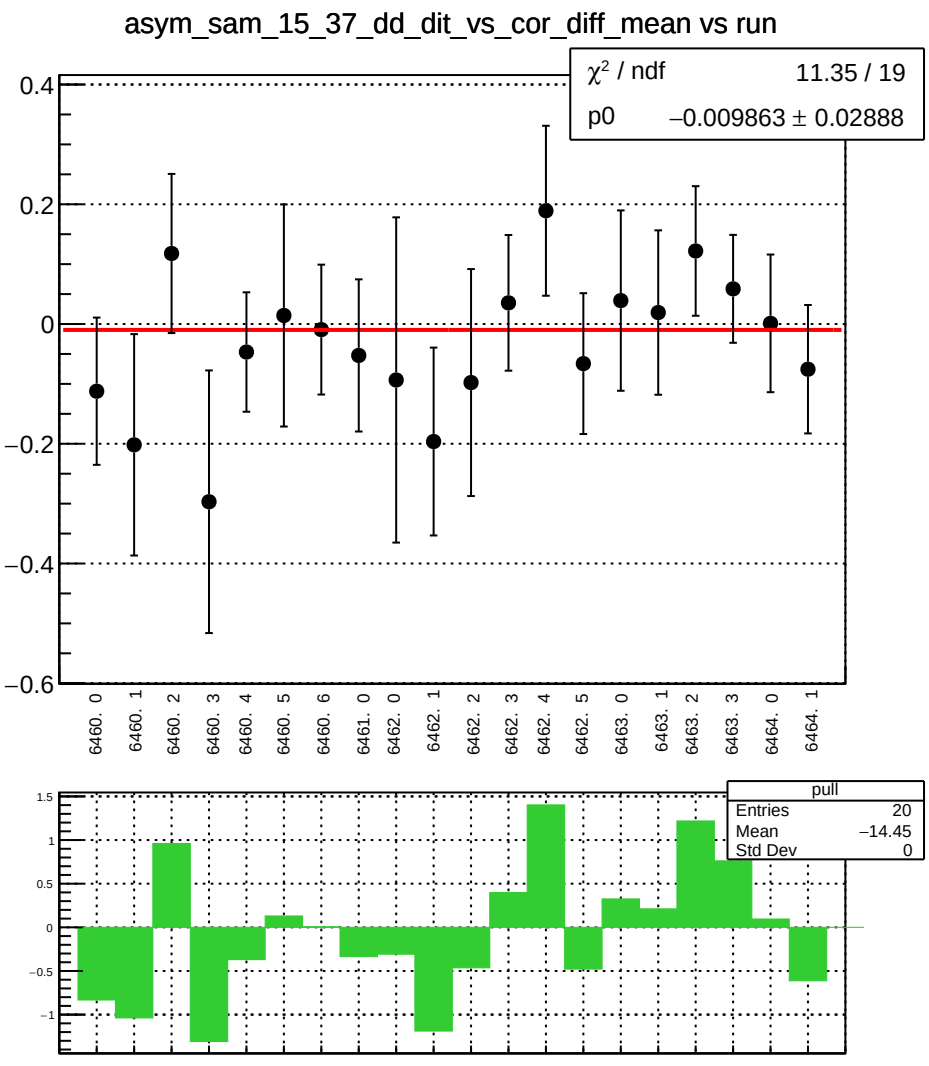

asym_sam_15_37_dd_rms vs run
χ² / ndf 1210 / 19
p0 395.8 ± 0.6228
440
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

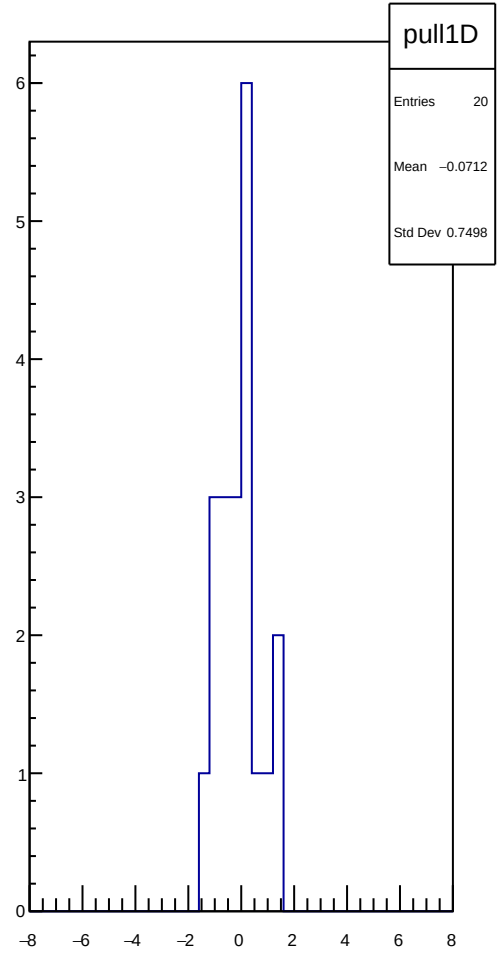

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 19.69 / 19
p0 −6.607e−14 ± 3.265e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

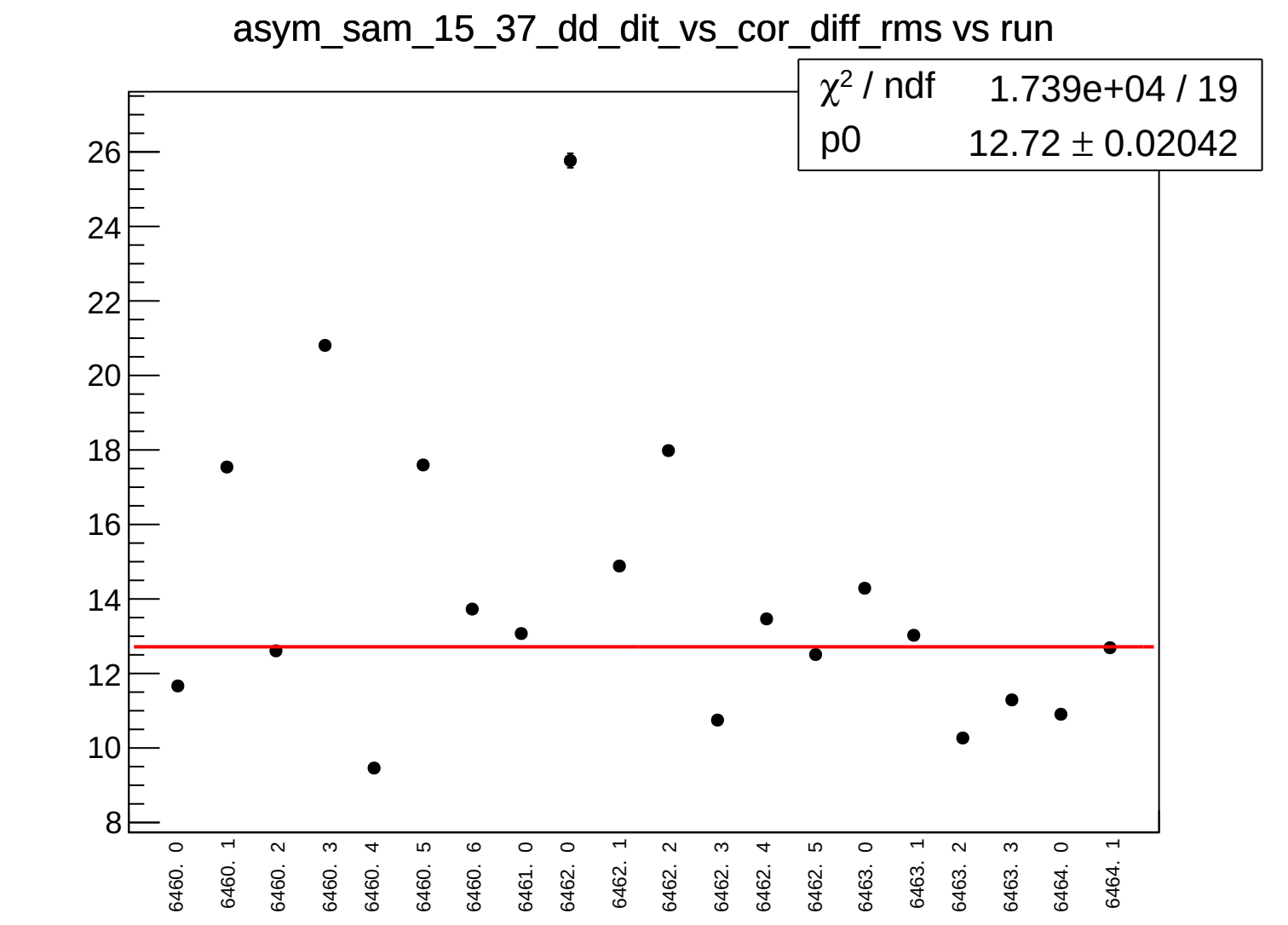

pull
Entries 20
Mean −8.954
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

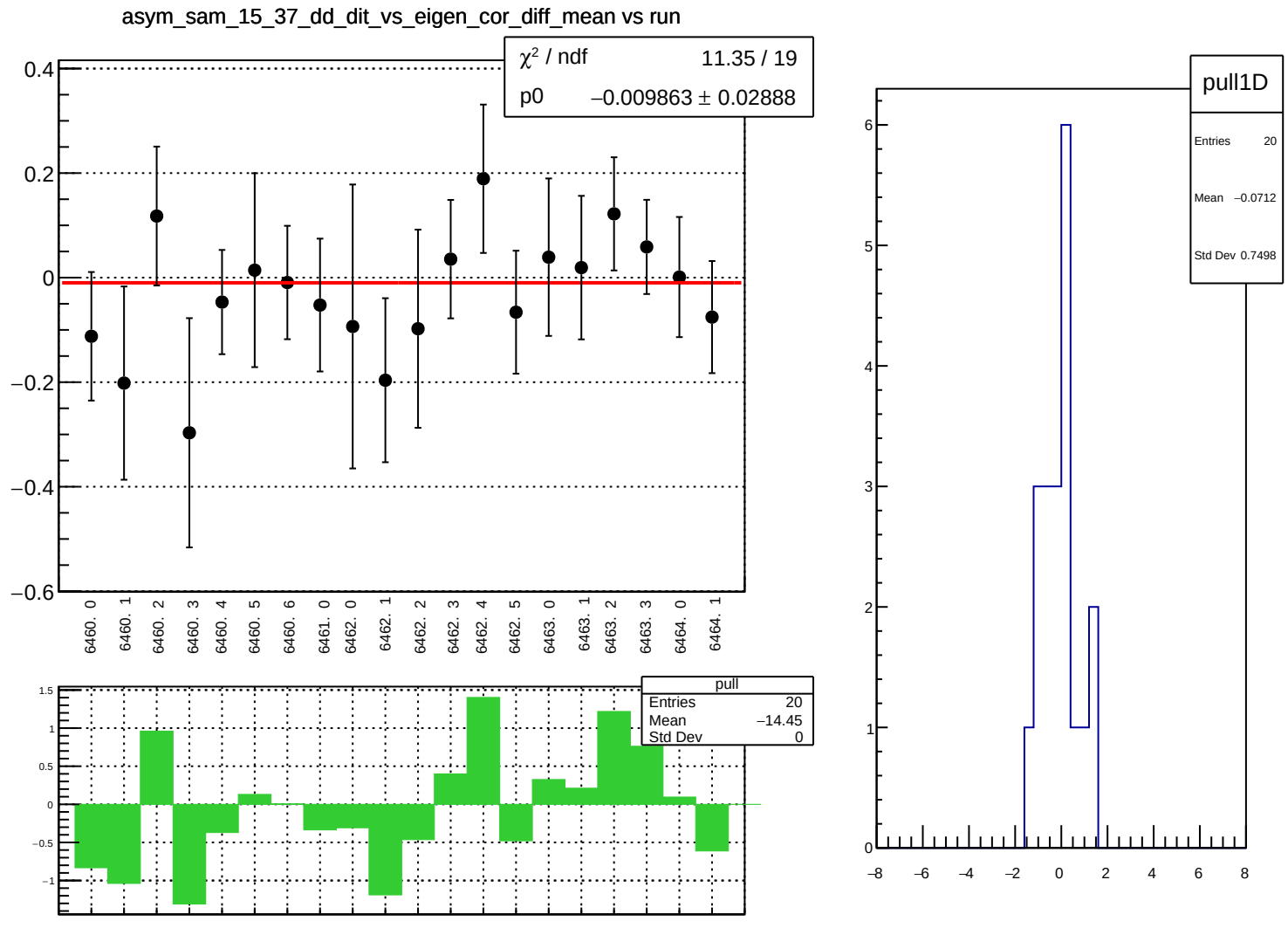

pull1D
Entries 20
Mean −0.05562
Std Dev 0.9907
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

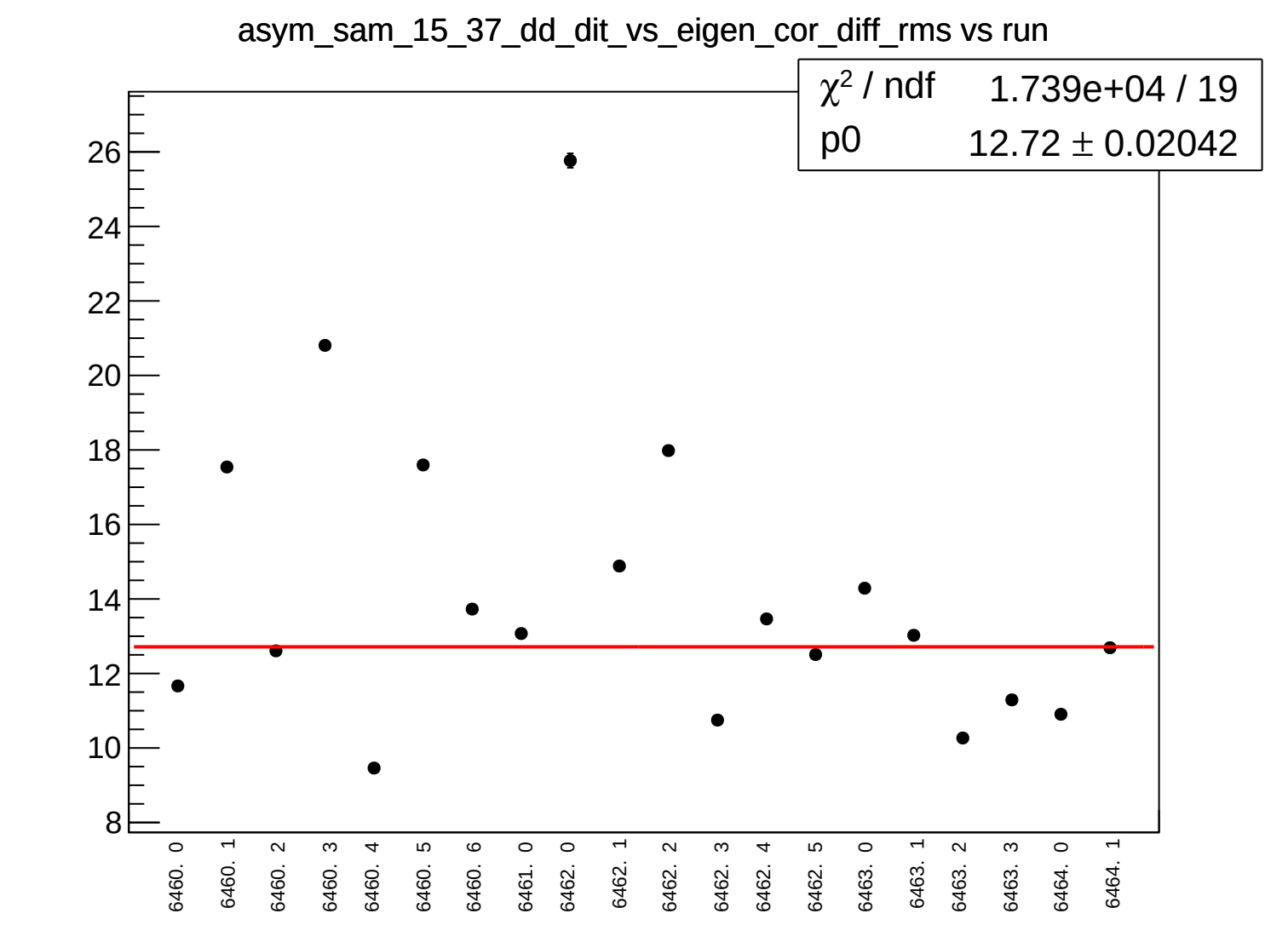

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.141e+05 / 19
p0 6.968e−12 ± 2.309e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

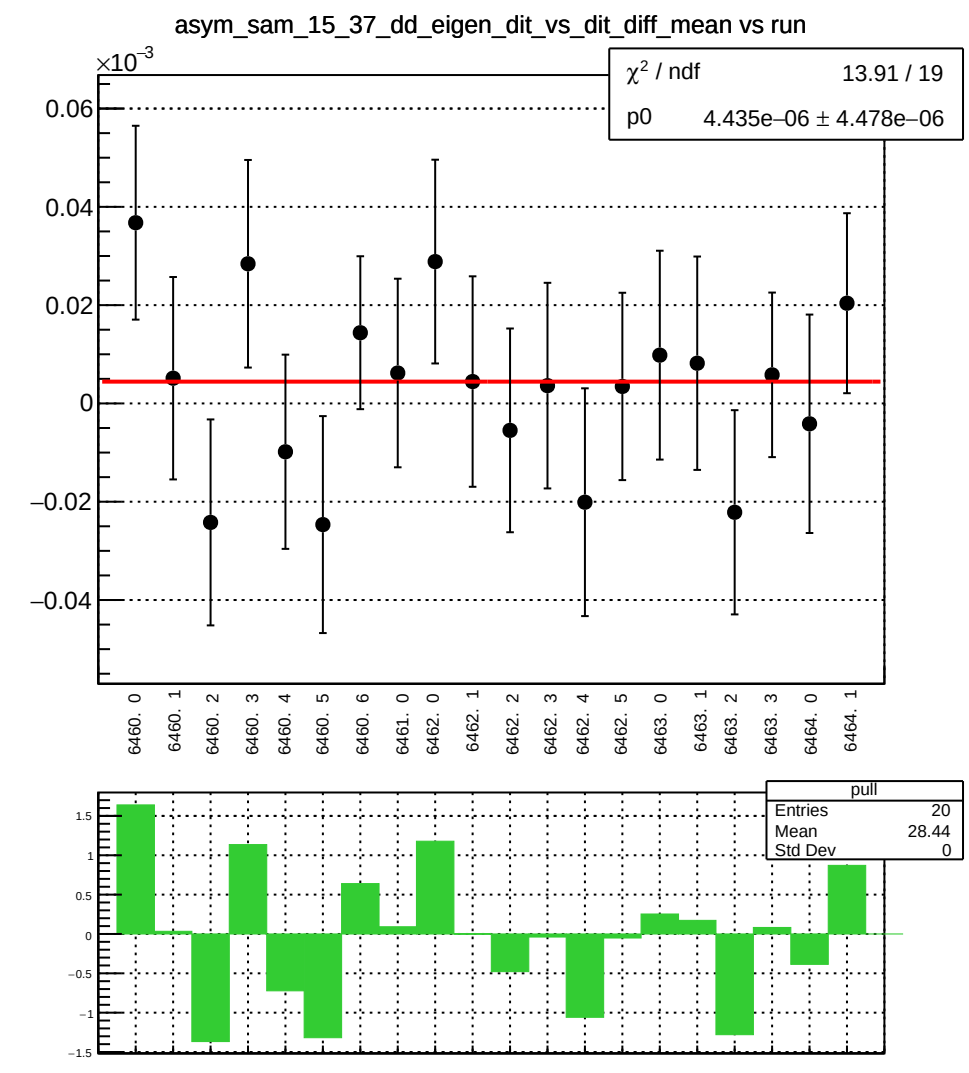

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 11.35 / 19
p0 −0.009863 ± 0.02888
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −14.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1

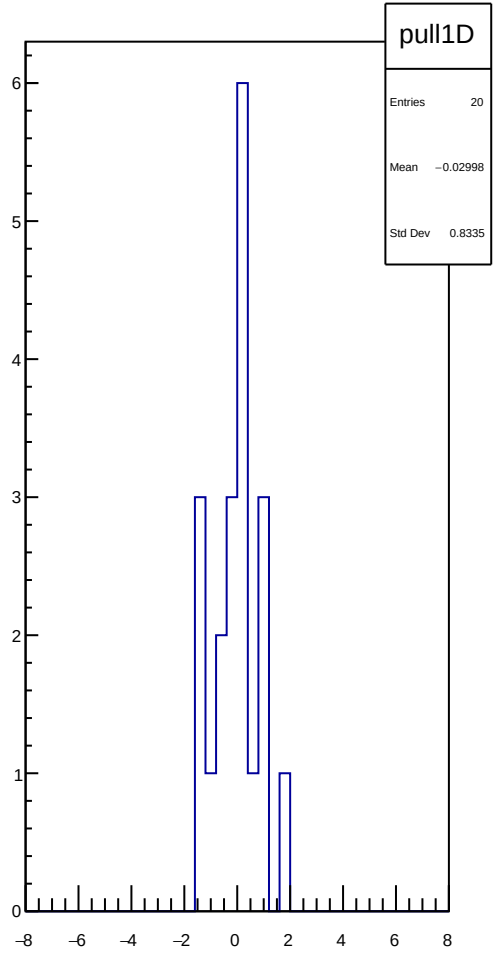

pull1D
Entries 20
Mean −0.0712
Std Dev 0.7498
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

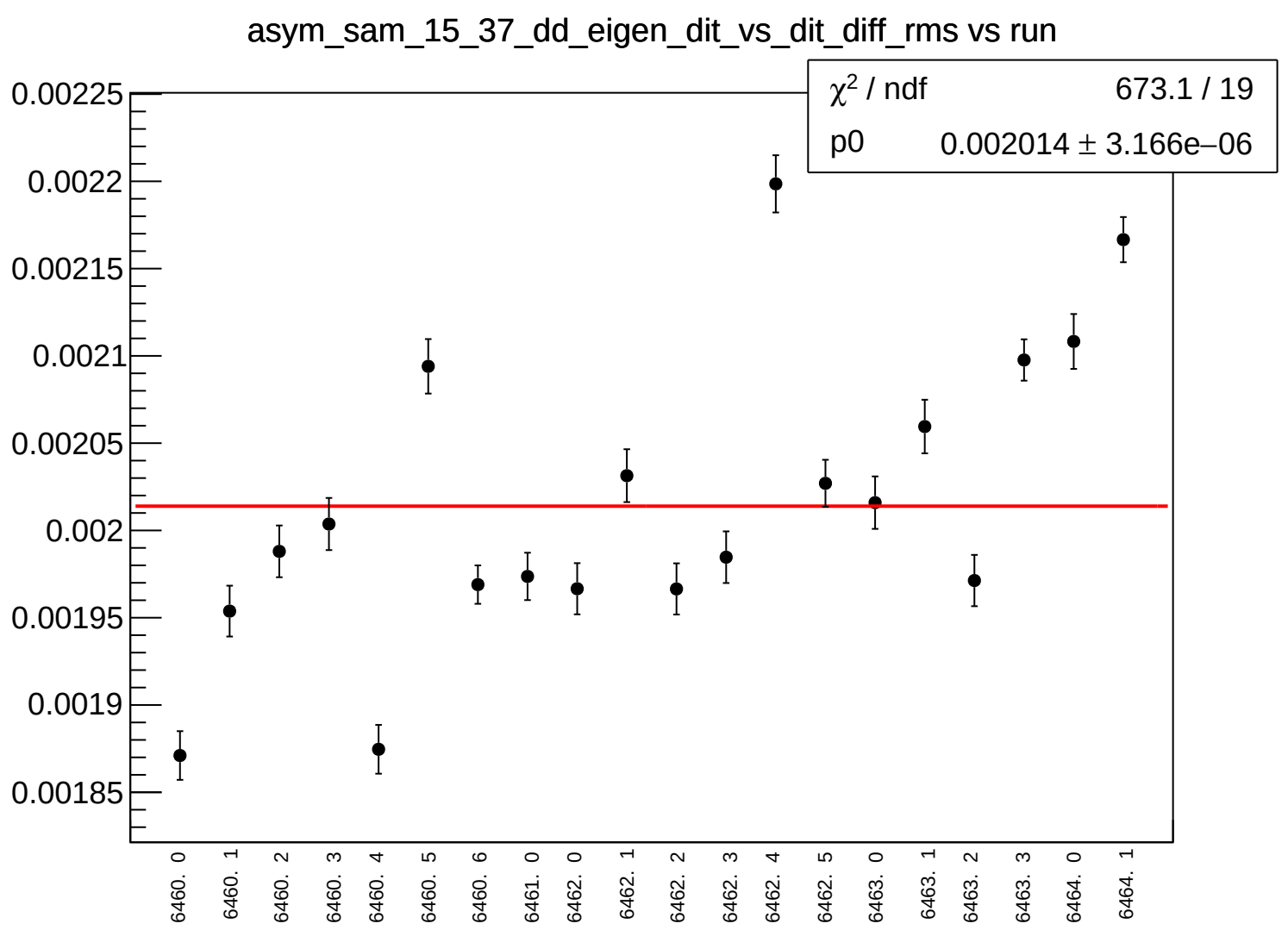

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.739e+04 / 19
p0 12.72 ± 0.02042
26
24
22
20
18
16
14
12
10
8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

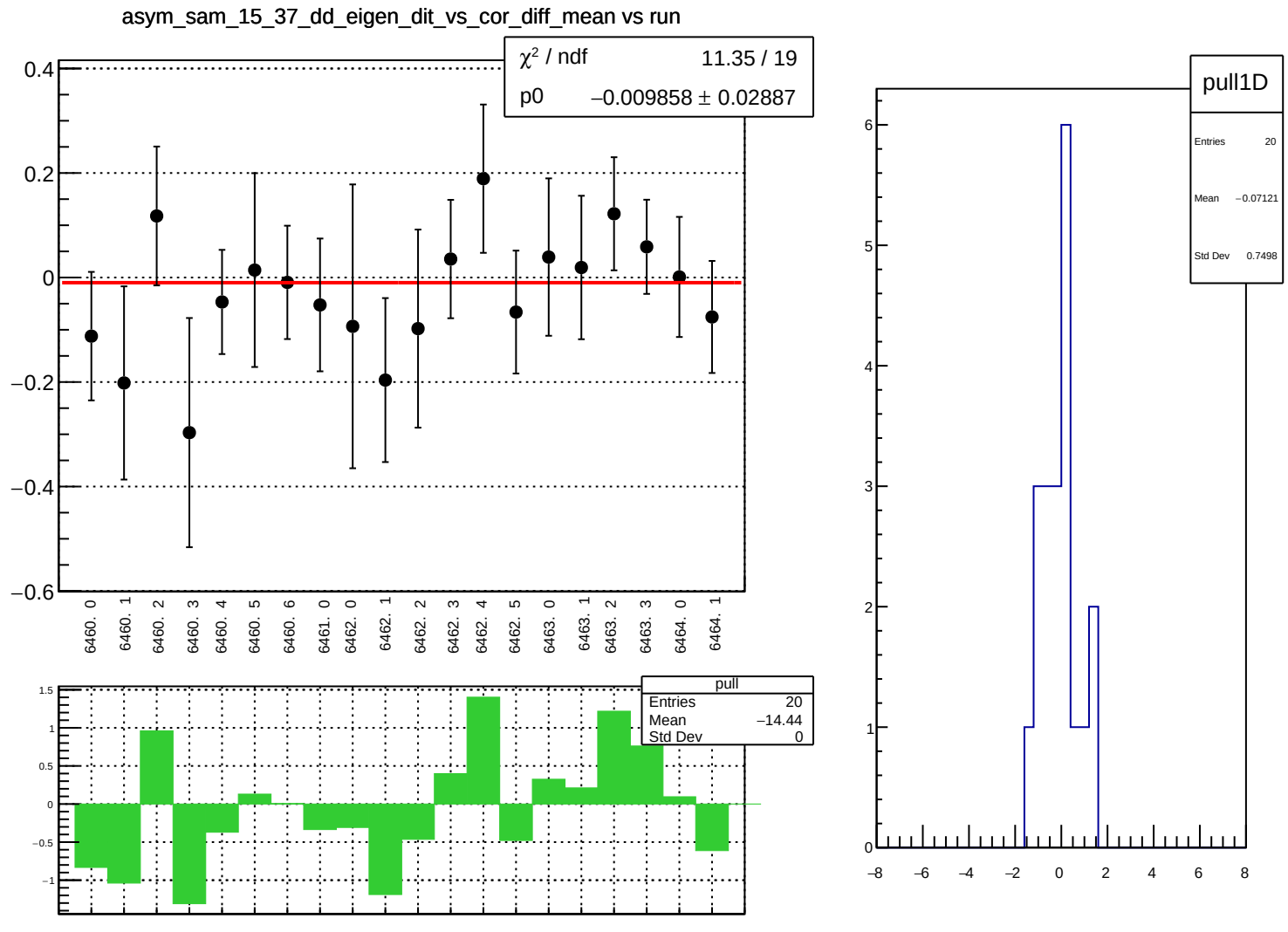

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.35 / 19
p0 −0.009863 ± 0.02888
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −14.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.0712
Std Dev 0.7498
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

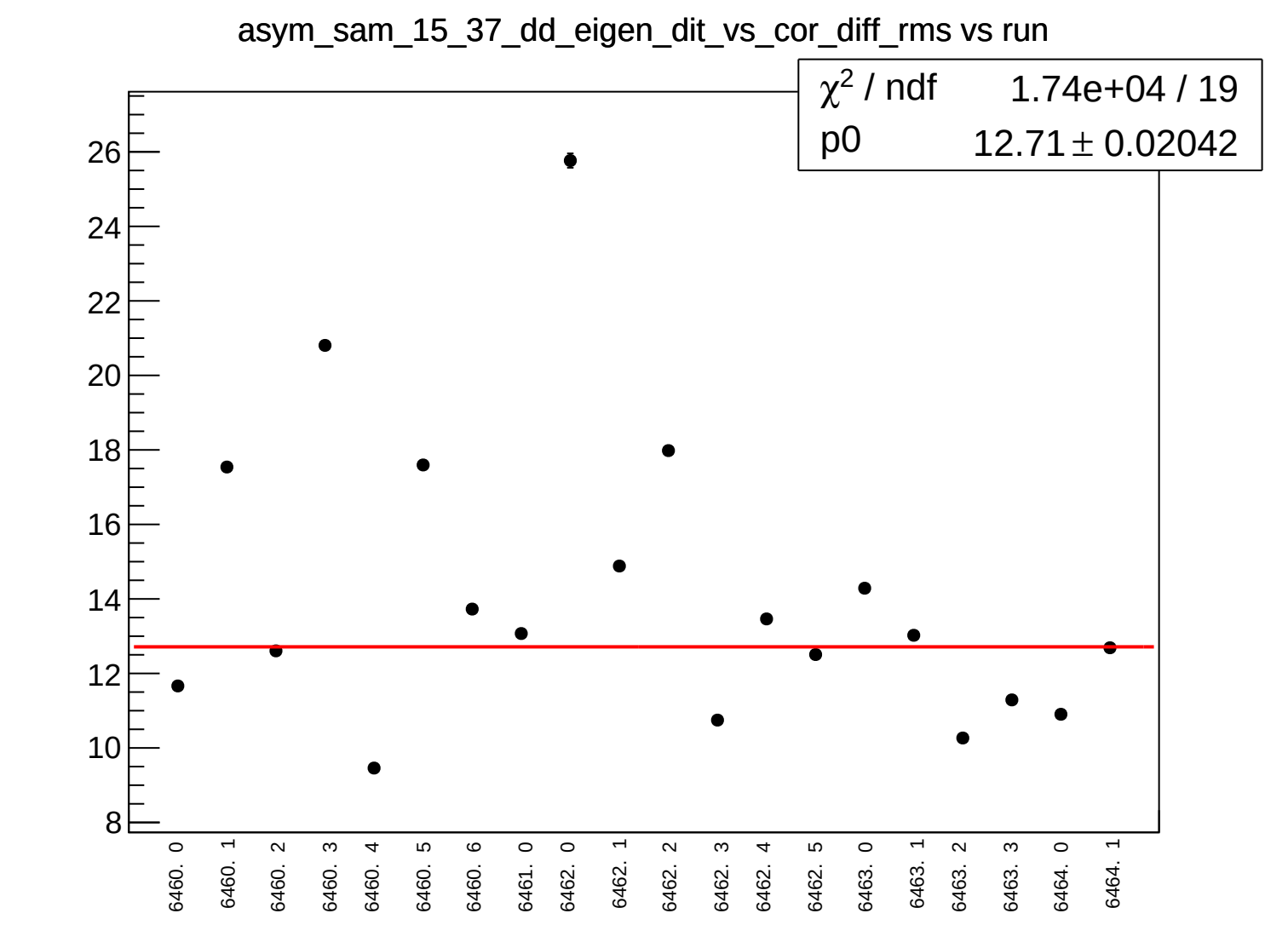

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.739e+04 / 19
p0 12.72 ± 0.02042
26
24
22
20
18
16
14
12
10
8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 13.91 / 19
p0 4.435e−06 ± 4.478e−06
0.06
0.04
0.02
0
−0.02
−0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 28.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

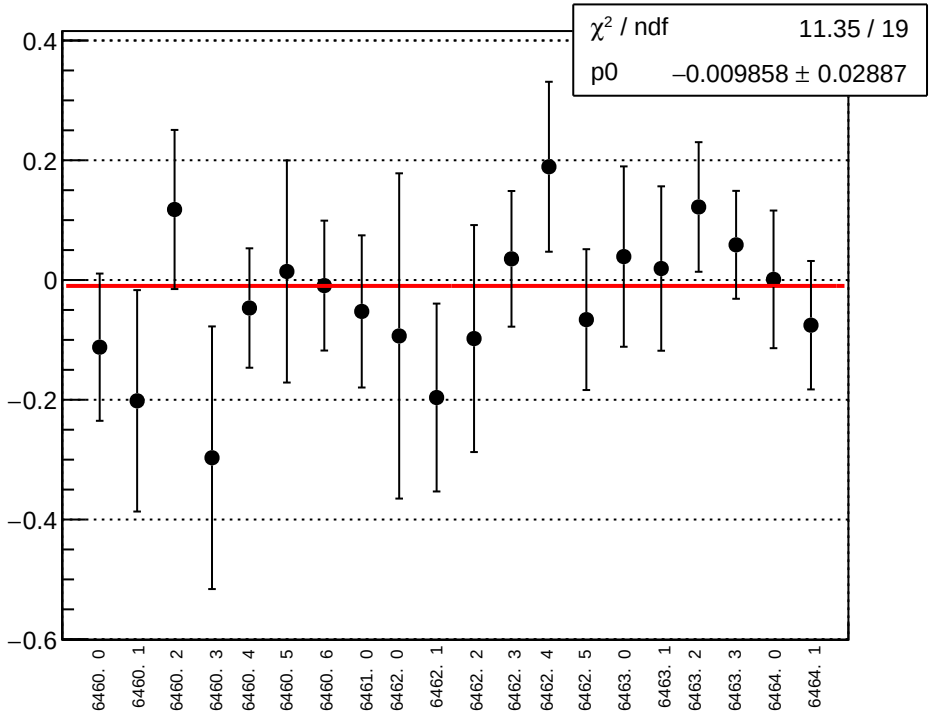

pull1D
Entries 20
Mean −0.02998
Std Dev 0.8335
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

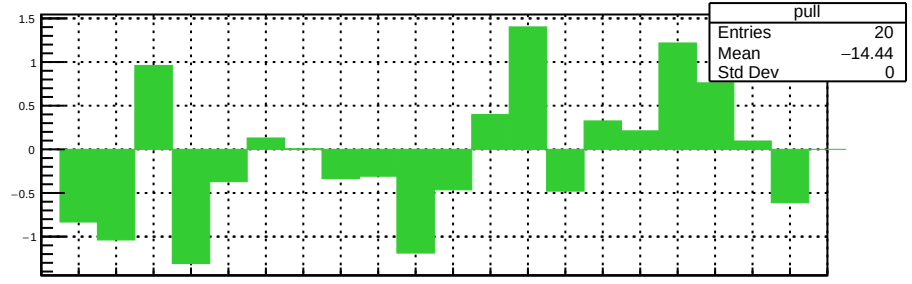

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 673.1 / 19
p0 0.002014 ± 3.166e−06
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

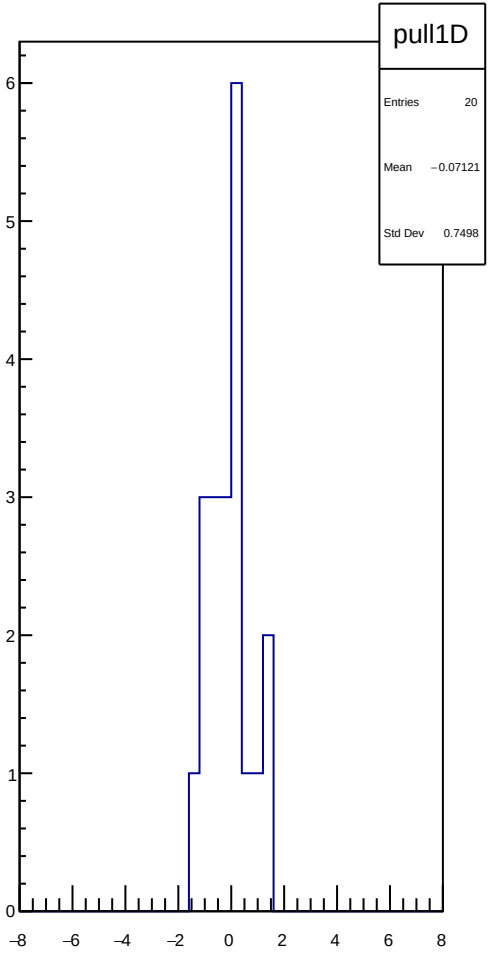

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 11.35 / 19
p0 −0.009858 ± 0.02887
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −14.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.07121
Std Dev 0.7498
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

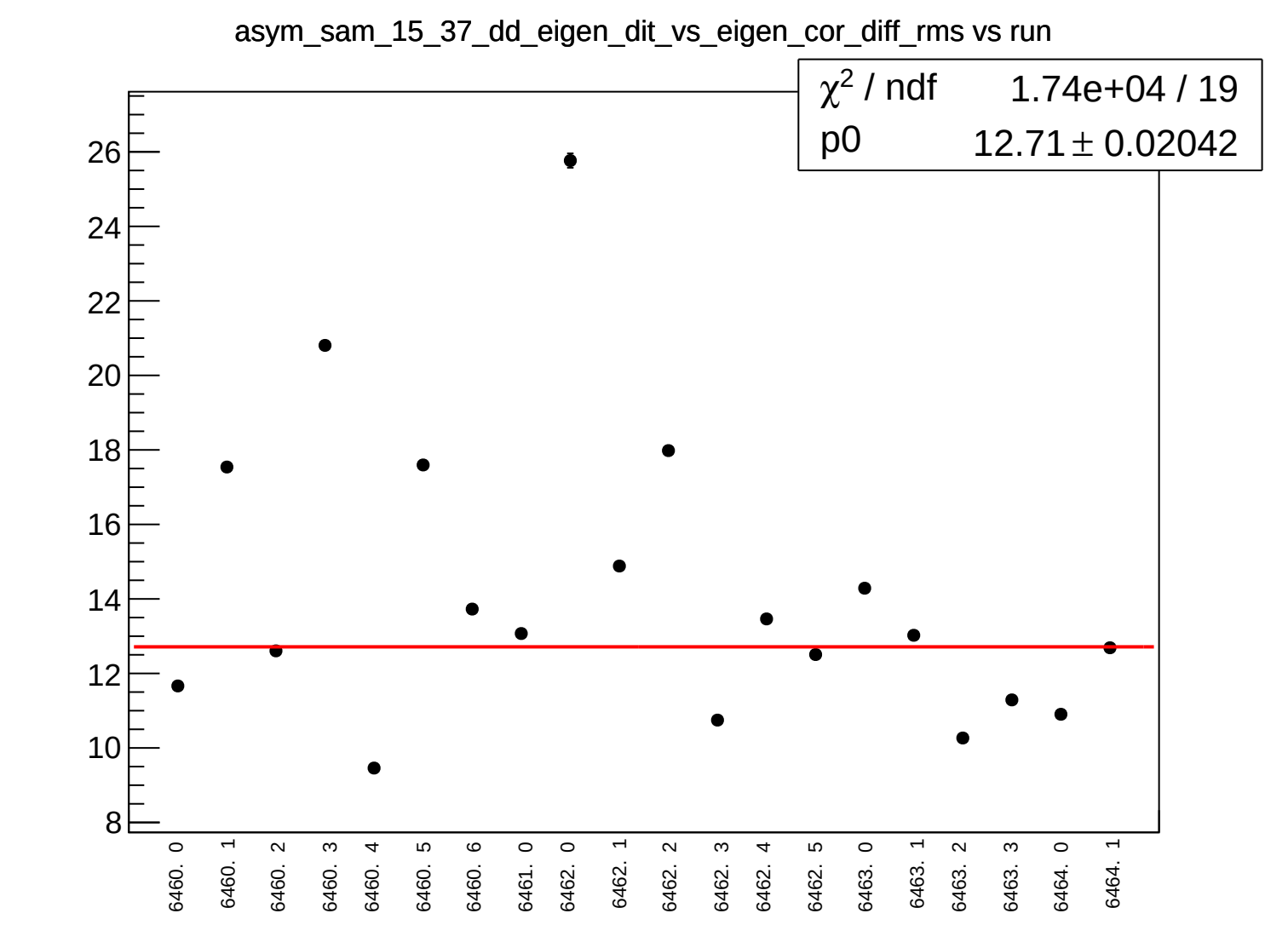

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.74e+04 / 19
p0 12.71 ± 0.02042
26
24
22
20
18
16
14
12
10
8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

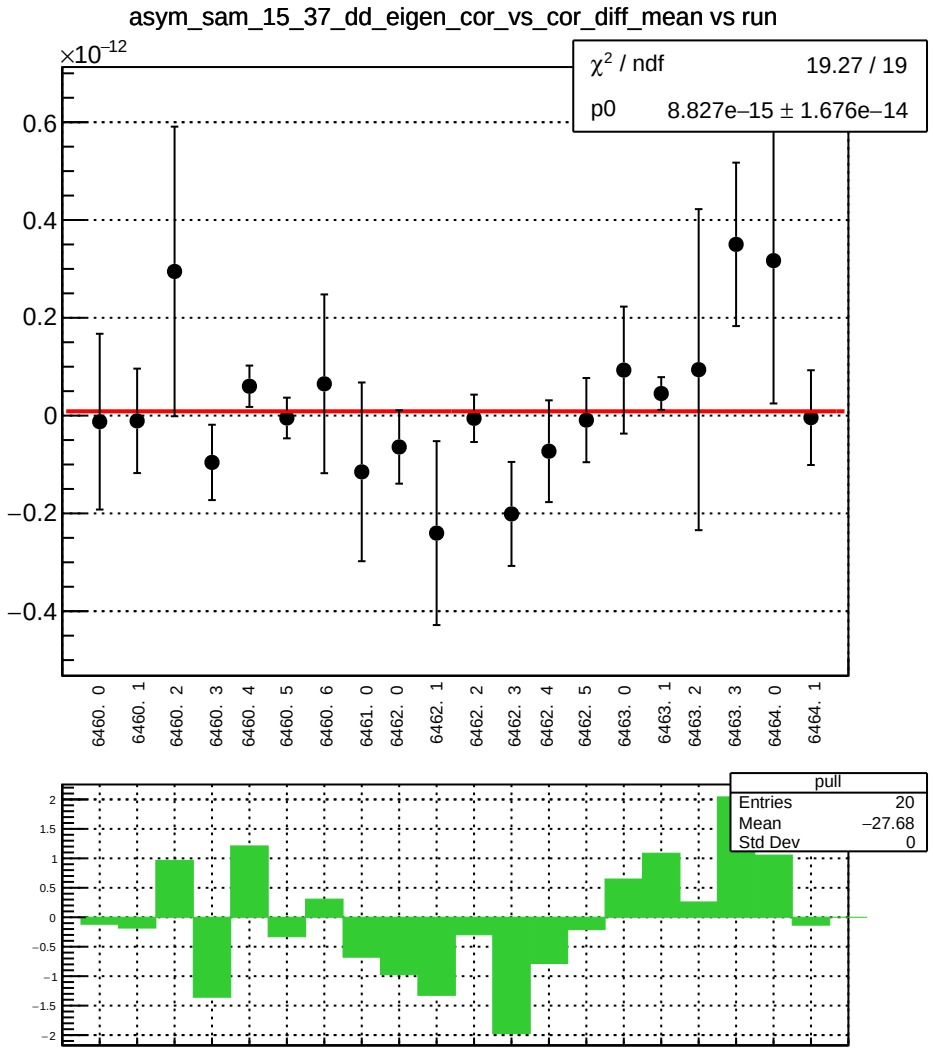
asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

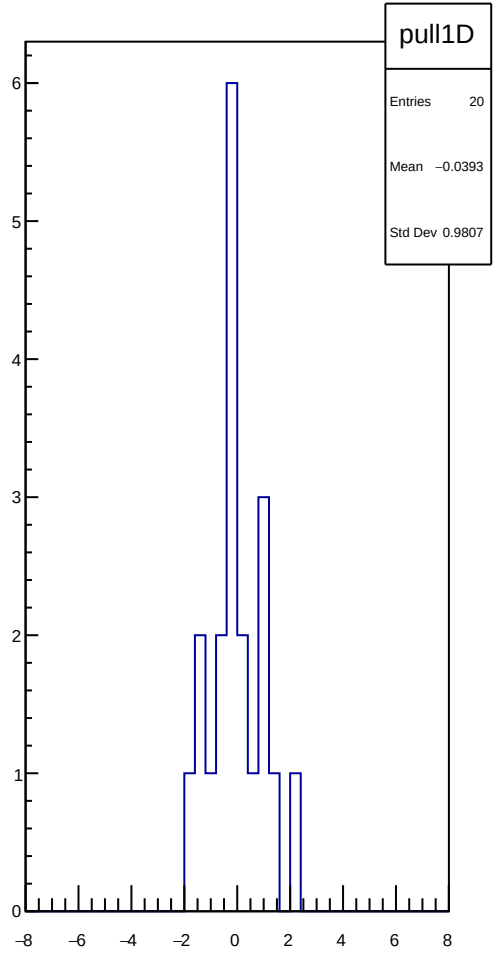


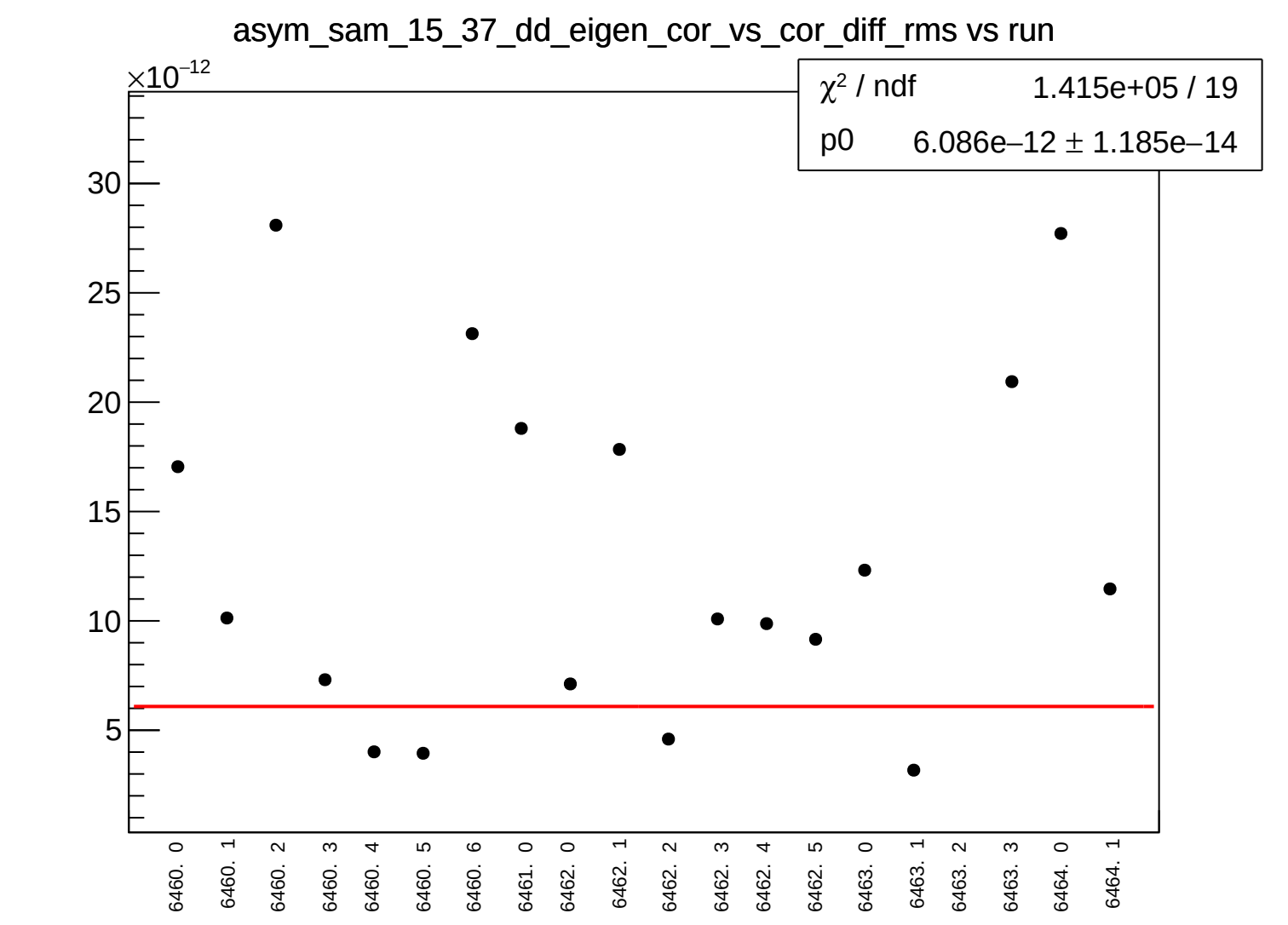


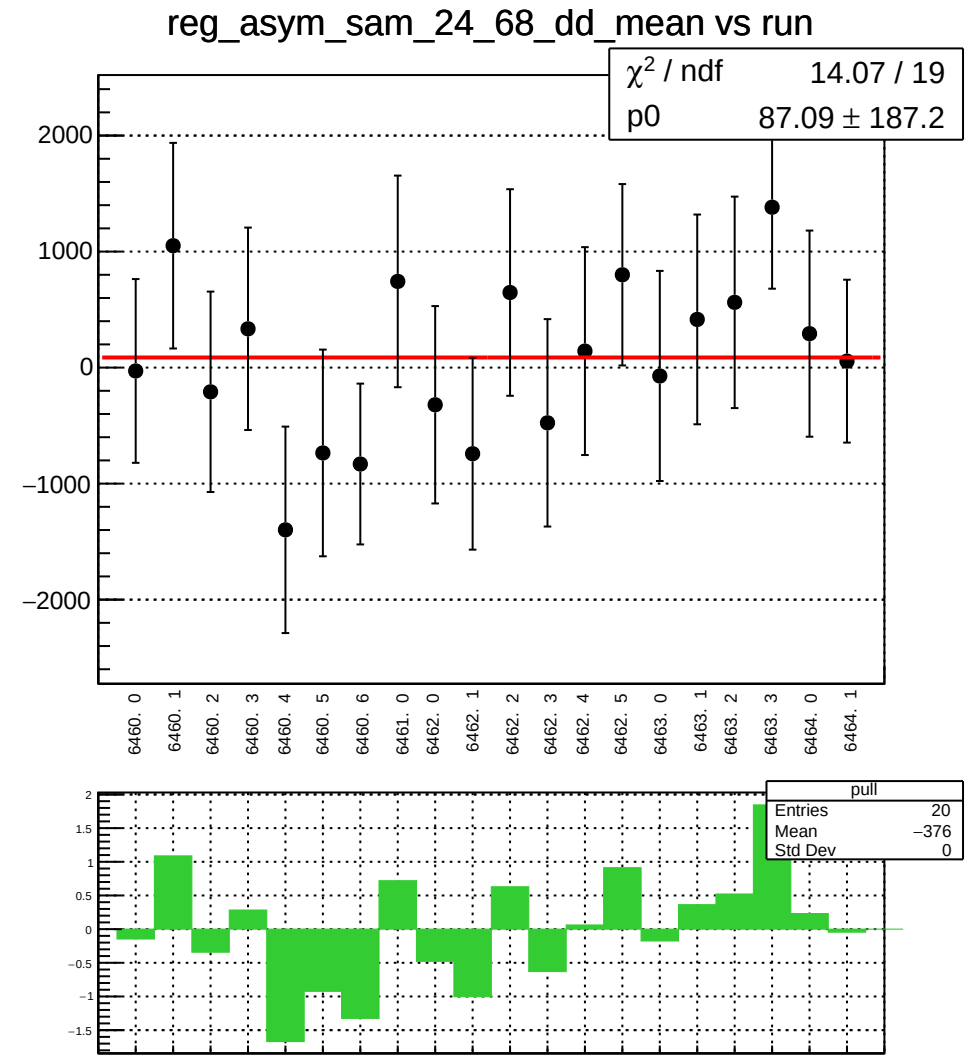


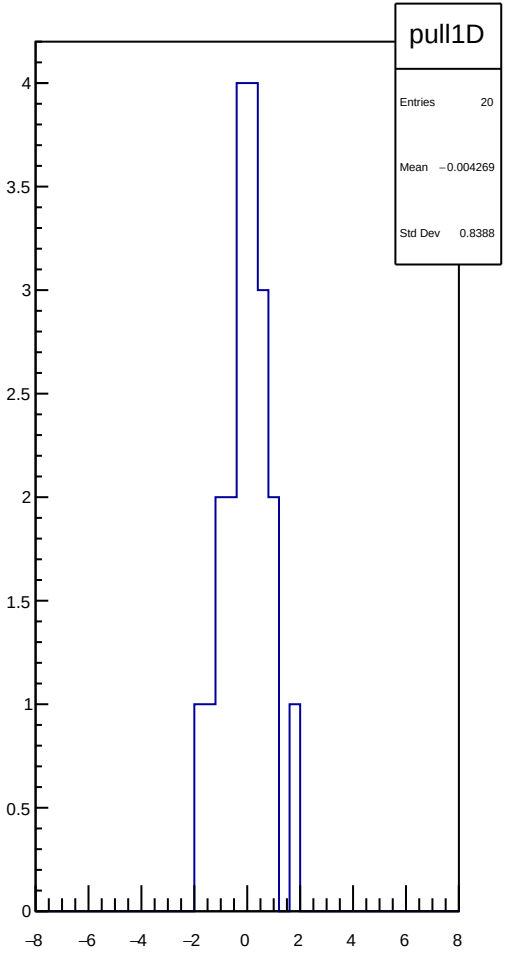

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.74e+04 / 19
p0 12.71 ± 0.02042
26
24
22
20
18
16
14
12
10
8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

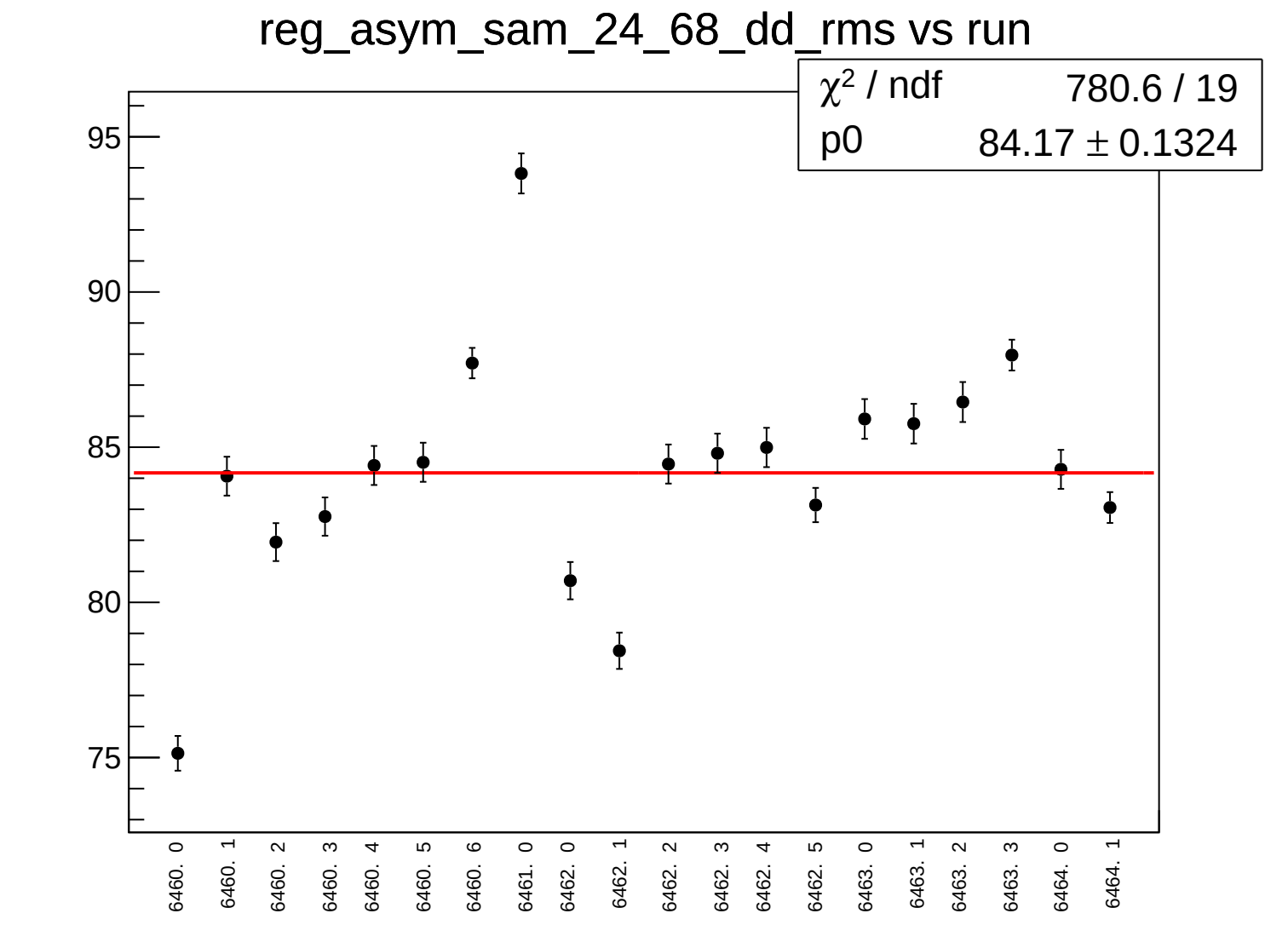

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.27 / 19
p0 8.827e−15 ± 1.676e−14
0.6
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −27.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 20
Mean −0.0393
Std Dev 0.9807
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.415e+05 / 19
p0 6.086e−12 ± 1.185e−14
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 14.07 / 19
p0 87.09 ± 187.2
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −376
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean −0.004269
Std Dev 0.8388
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 780.6 / 19
p0 84.17 ± 0.1324
95
90
85
80
75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 4
6462. 5
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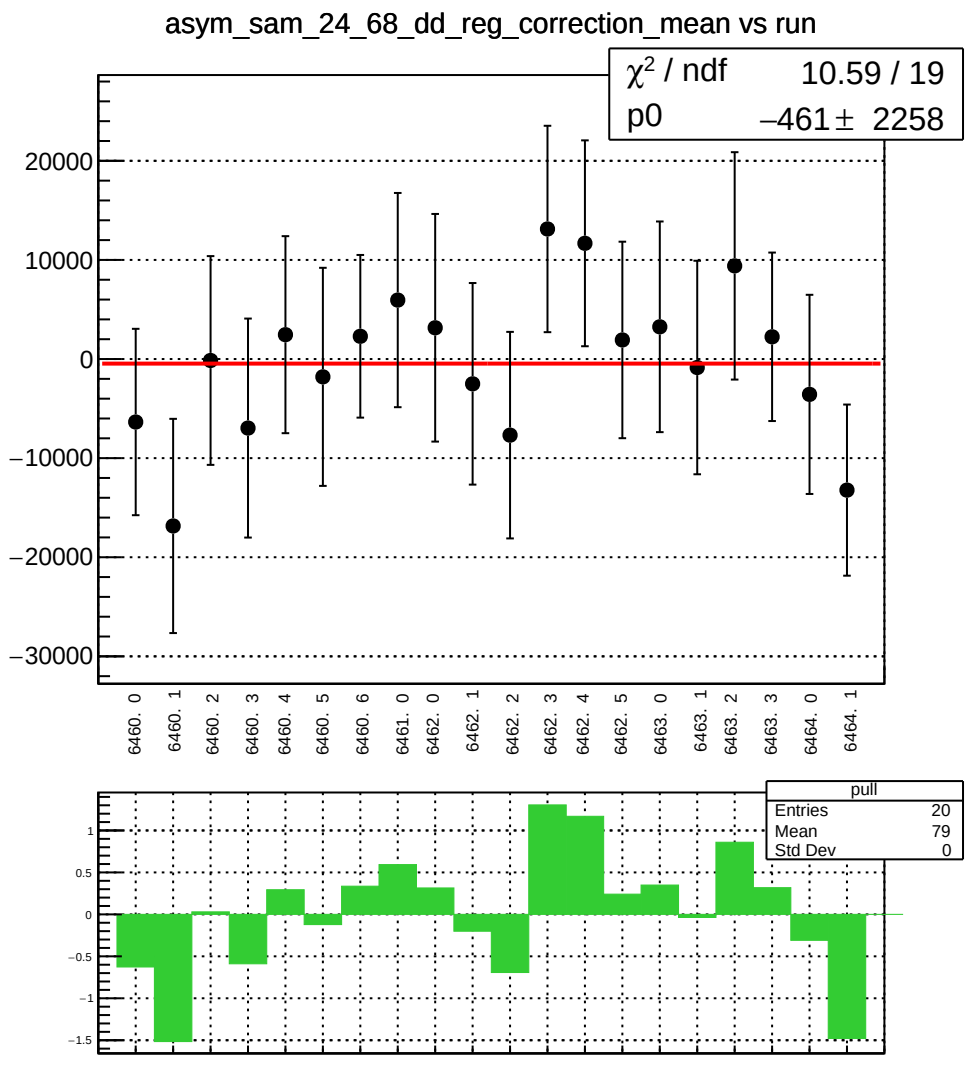
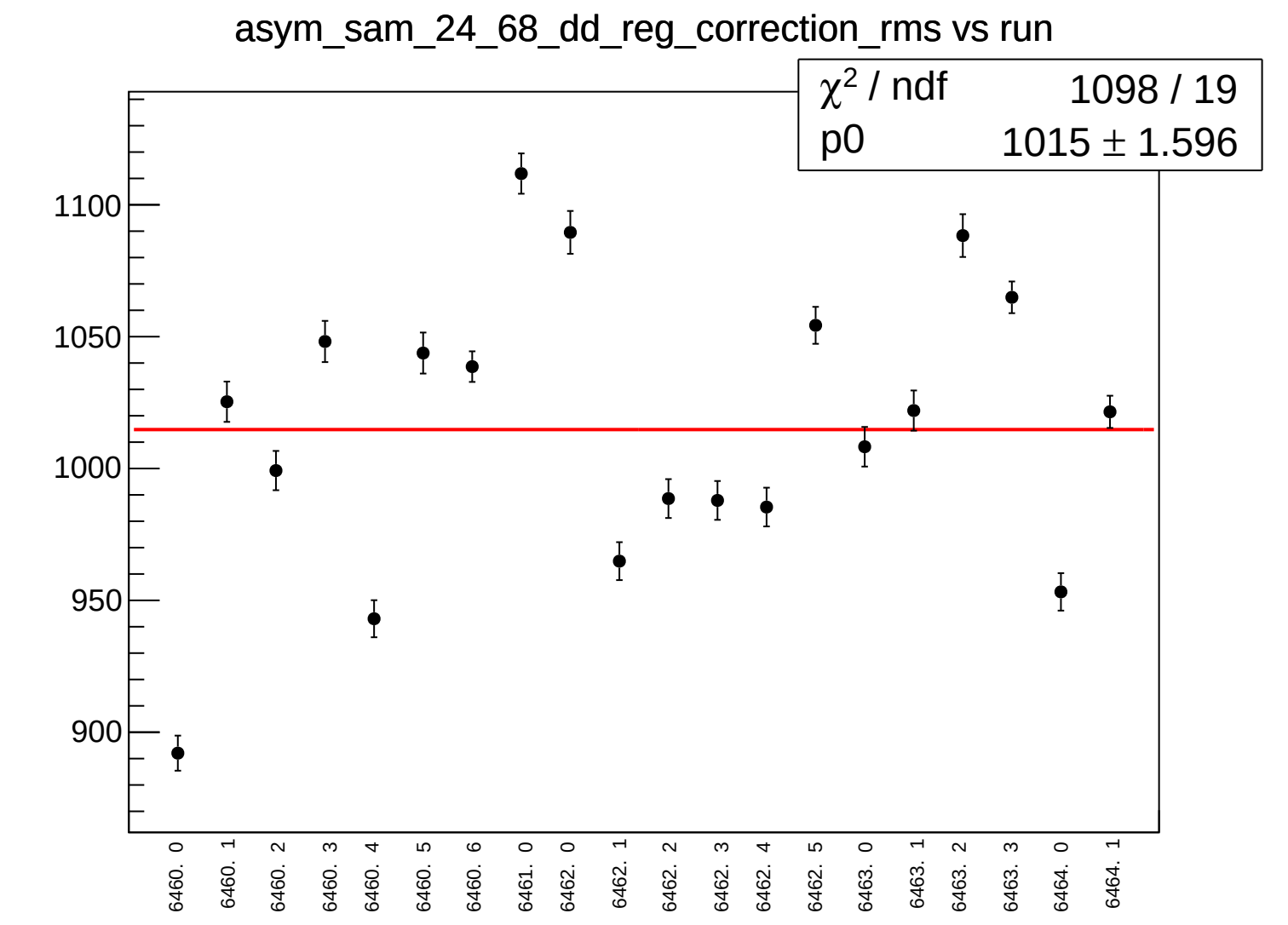
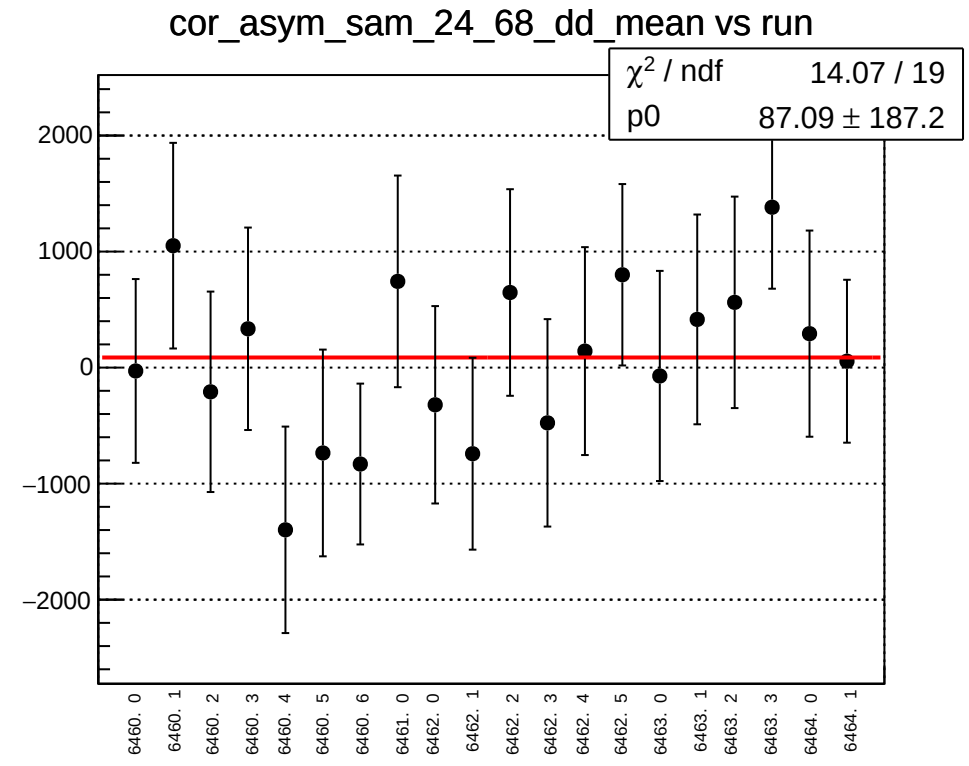
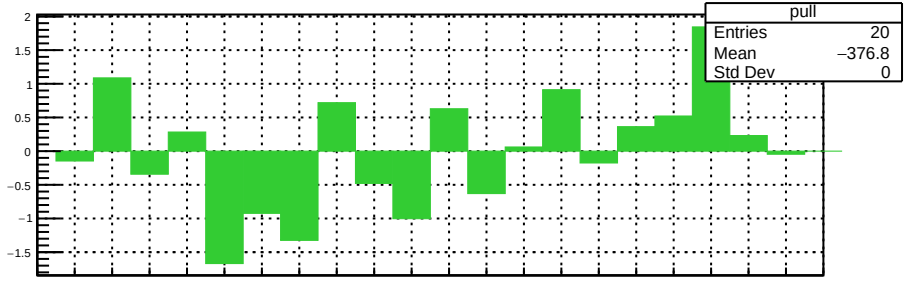
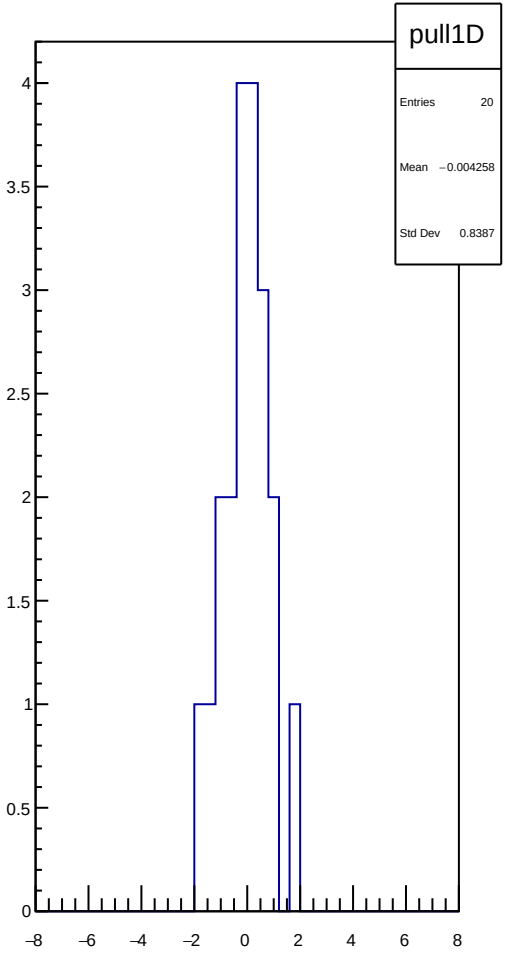
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

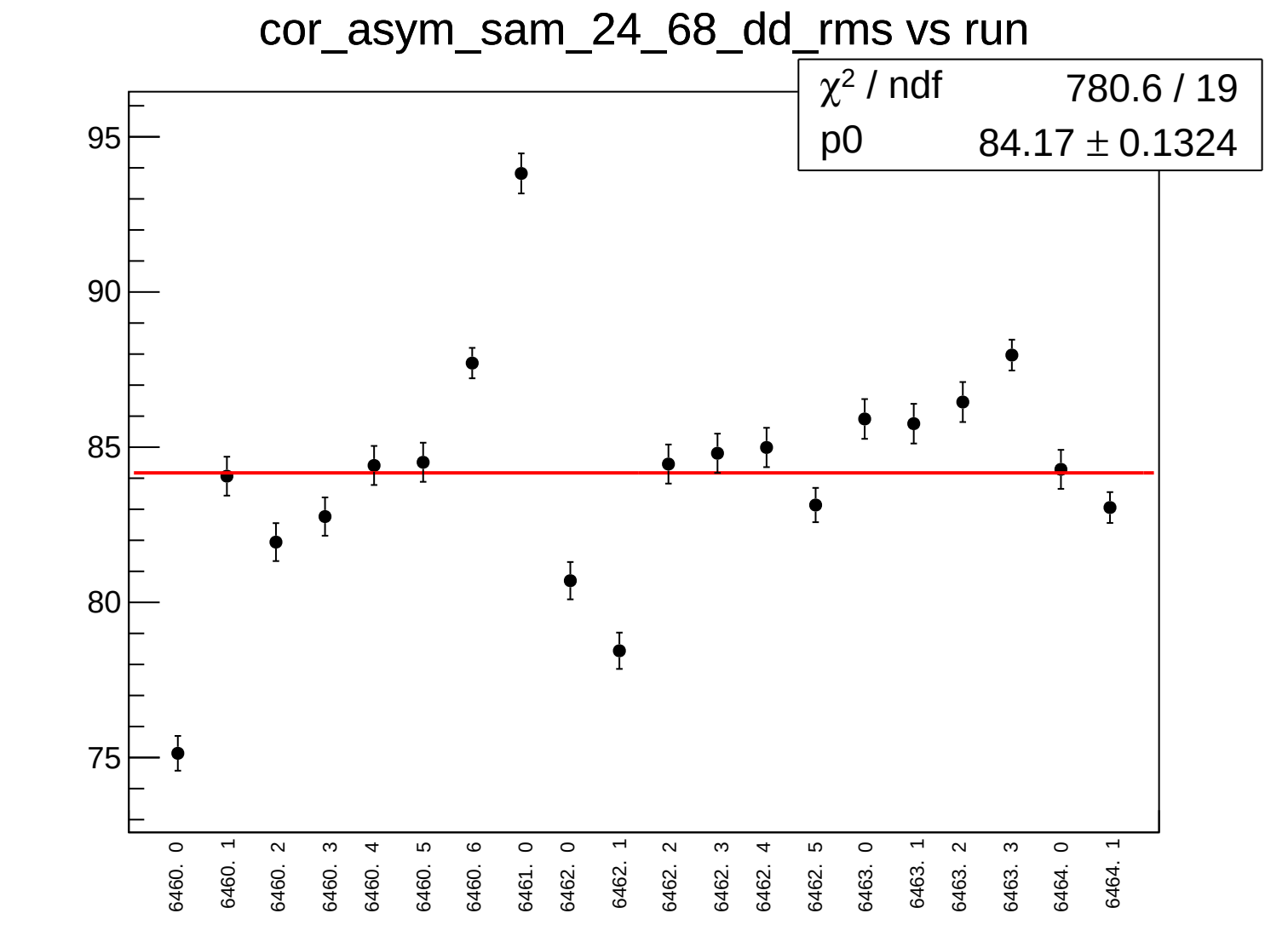

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 10.59 / 19
p0 −461 ± 2258
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 79
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01187
Std Dev 0.7277
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

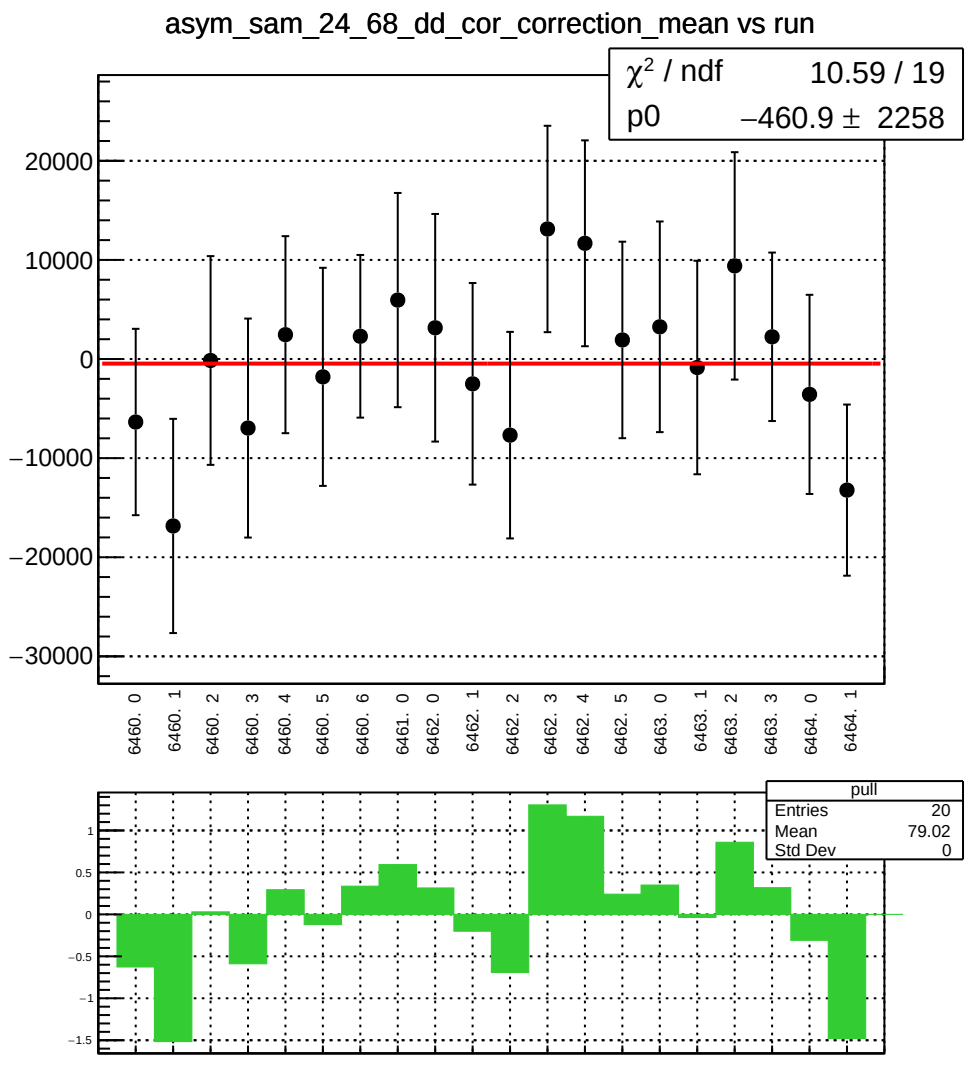

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1098 / 19
p0 1015 ± 1.596
1100
1050
1000
950
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

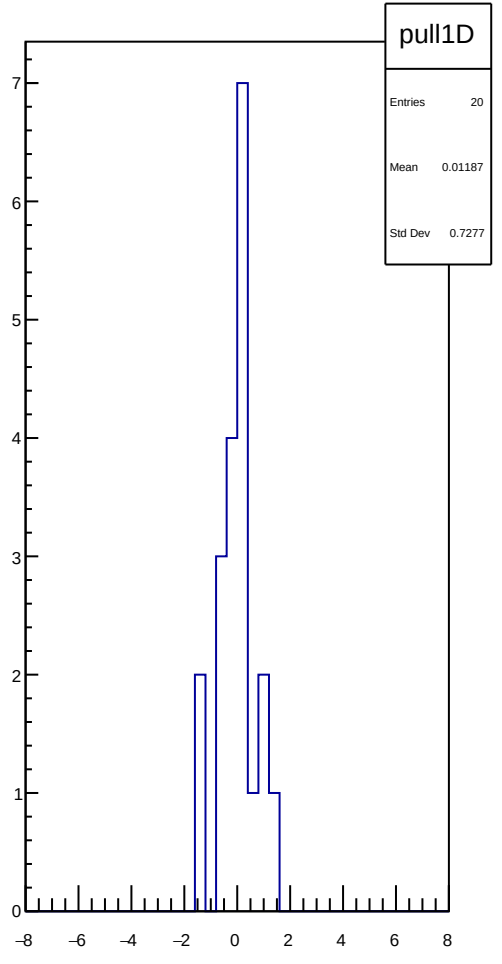

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 14.07 / 19
p0 87.09 ± 187.2
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

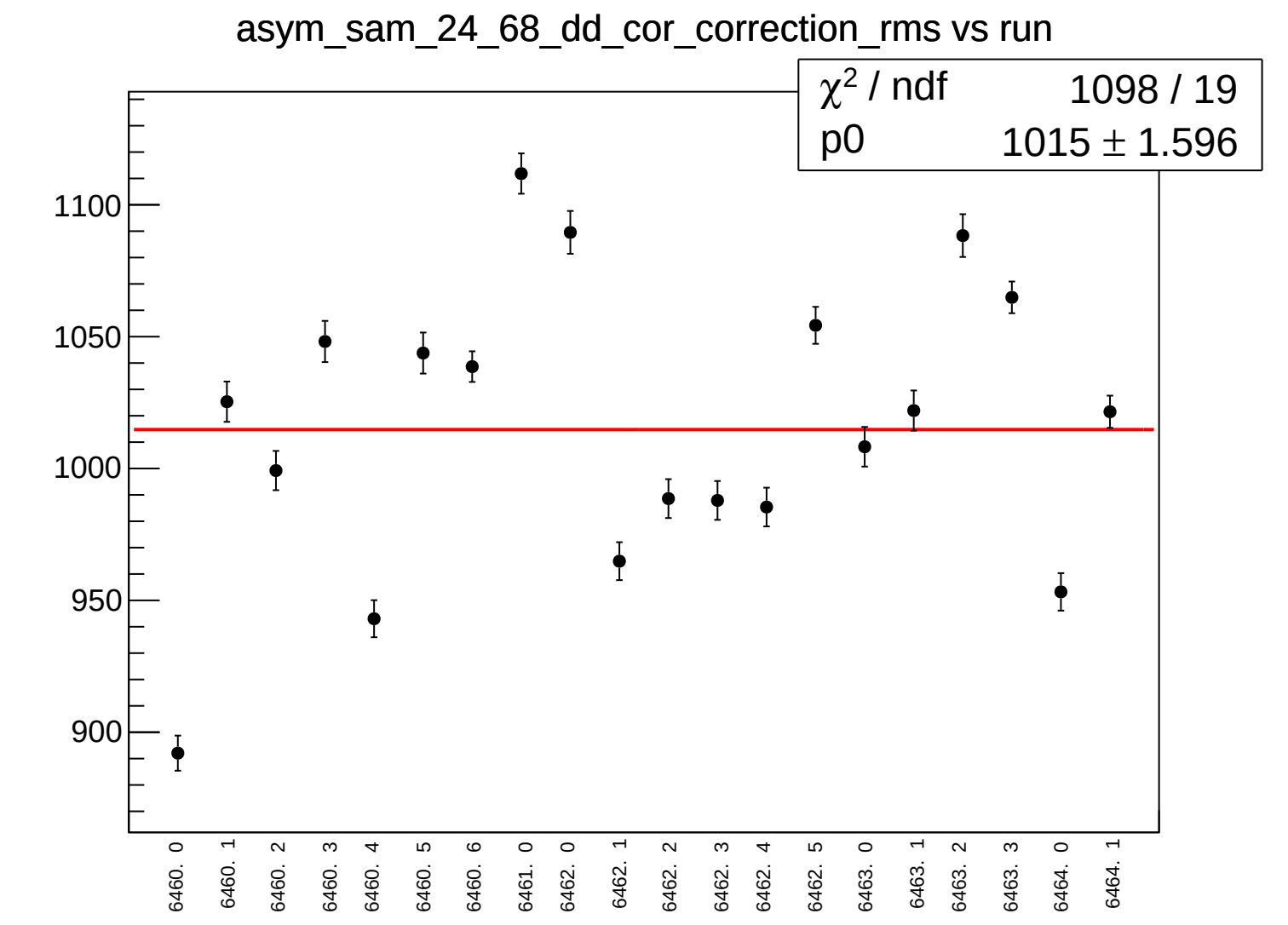

pull
Entries 20
Mean −376.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

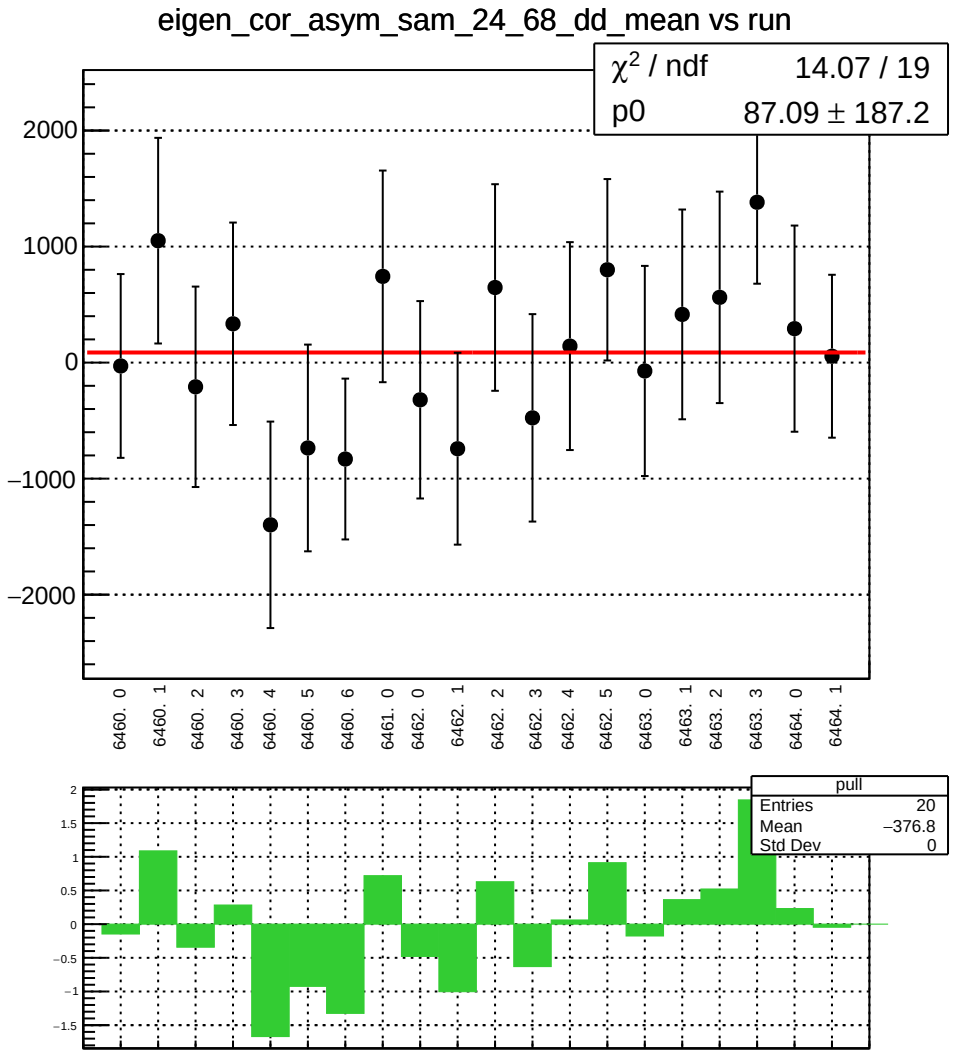

pull1D
Entries 20
Mean −0.004258
Std Dev 0.8387
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

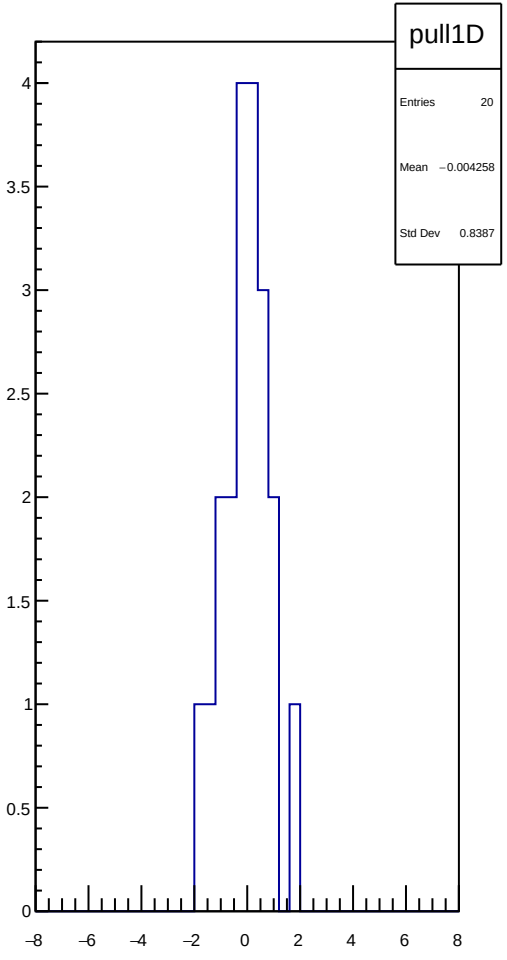

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 780.6 / 19
p0 84.17 ± 0.1324
95
90
85
80
75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

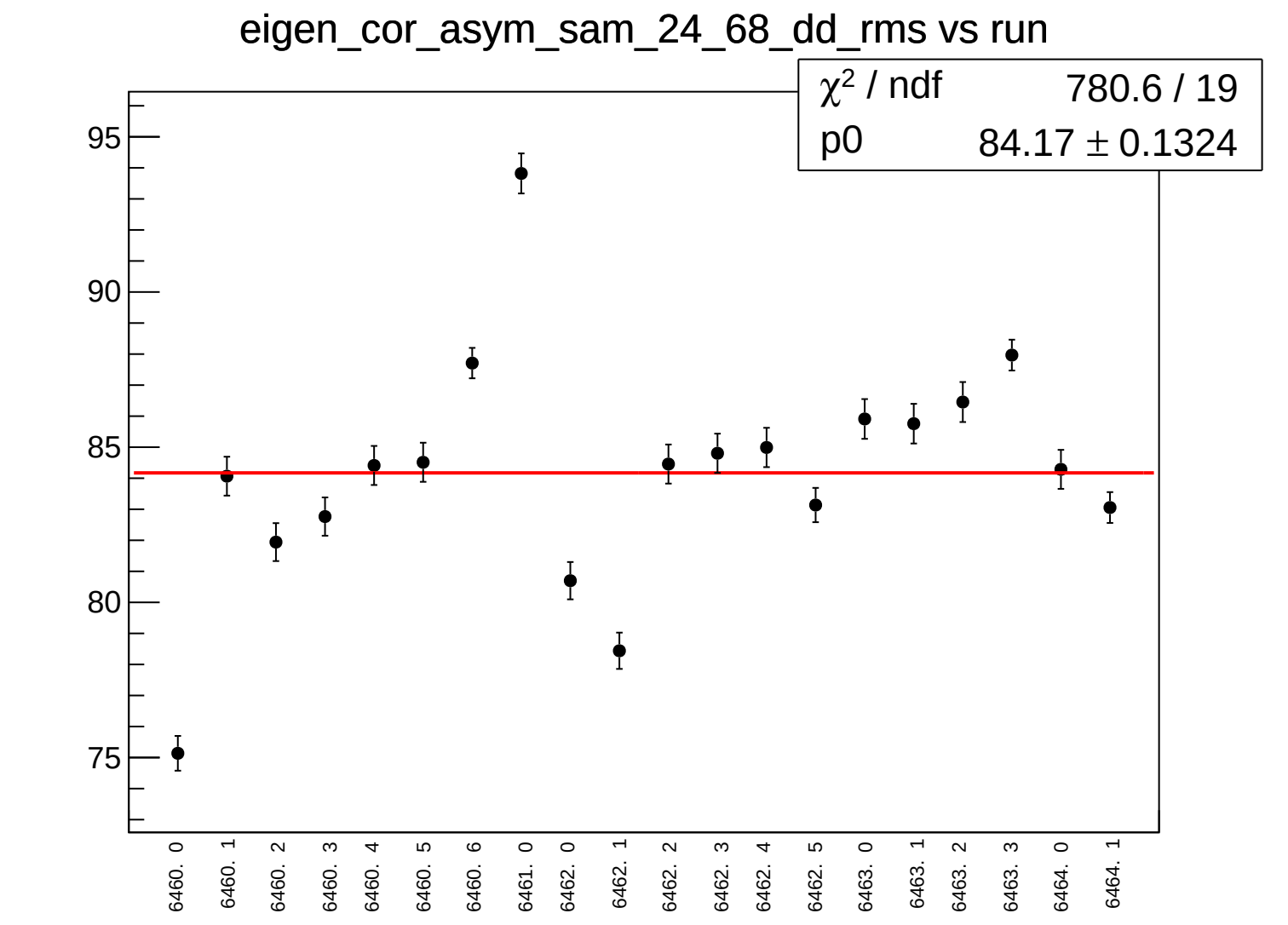

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 10.59 / 19
p0 −460.9 ± 2258
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 79.02
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

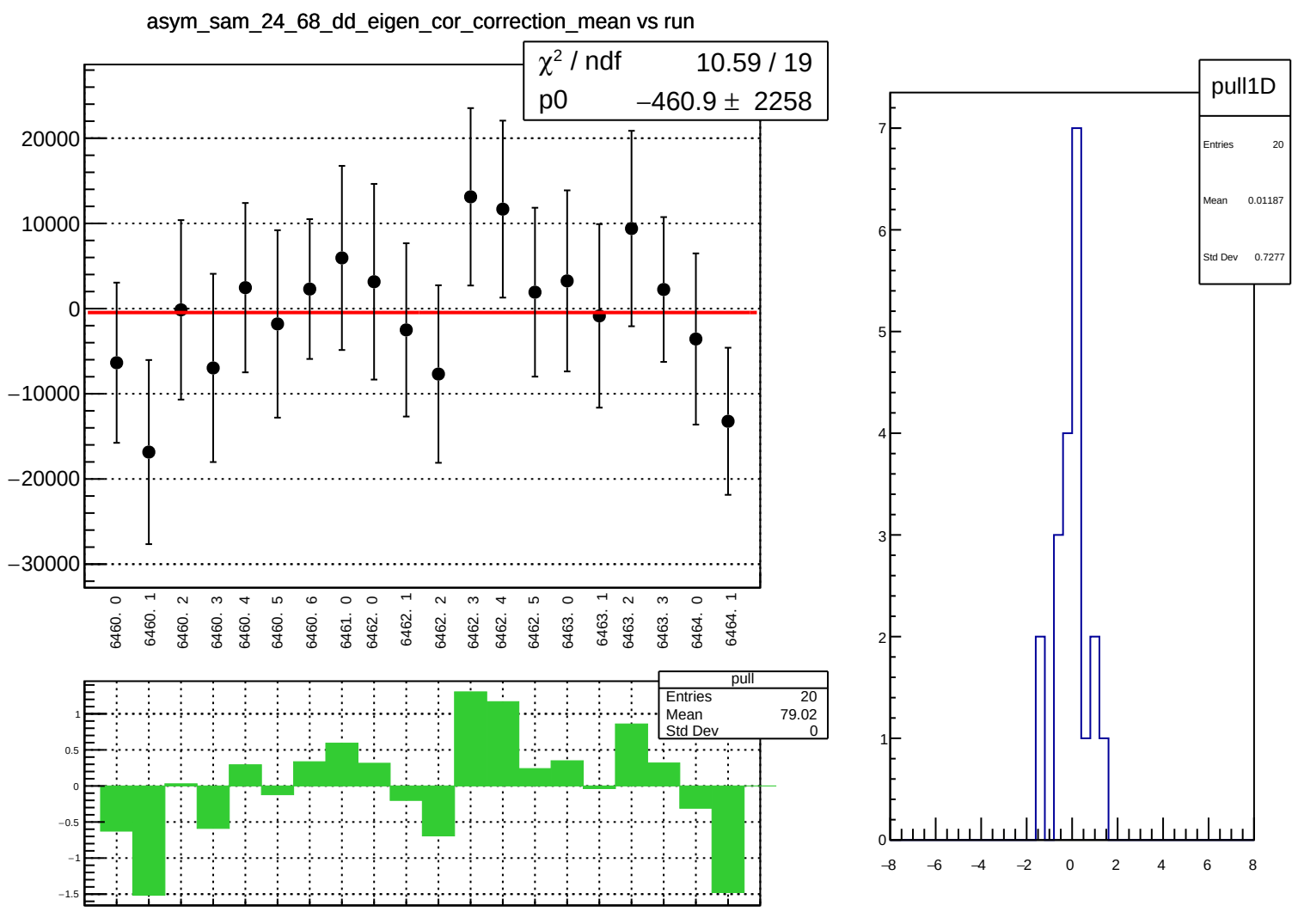

pull1D
Entries 20
Mean 0.01187
Std Dev 0.7277
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1098 / 19
p0 1015 ± 1.596
1100
1050
1000
950
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 14.07 / 19
p0 87.09 ± 187.2
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −376.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean −0.004258
Std Dev 0.8387
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 780.6 / 19
p0 84.17 ± 0.1324
95
90
85
80
75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 10.59 / 19
p0 −460.9 ± 2258
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 79.02
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01187
Std Dev 0.7277
7
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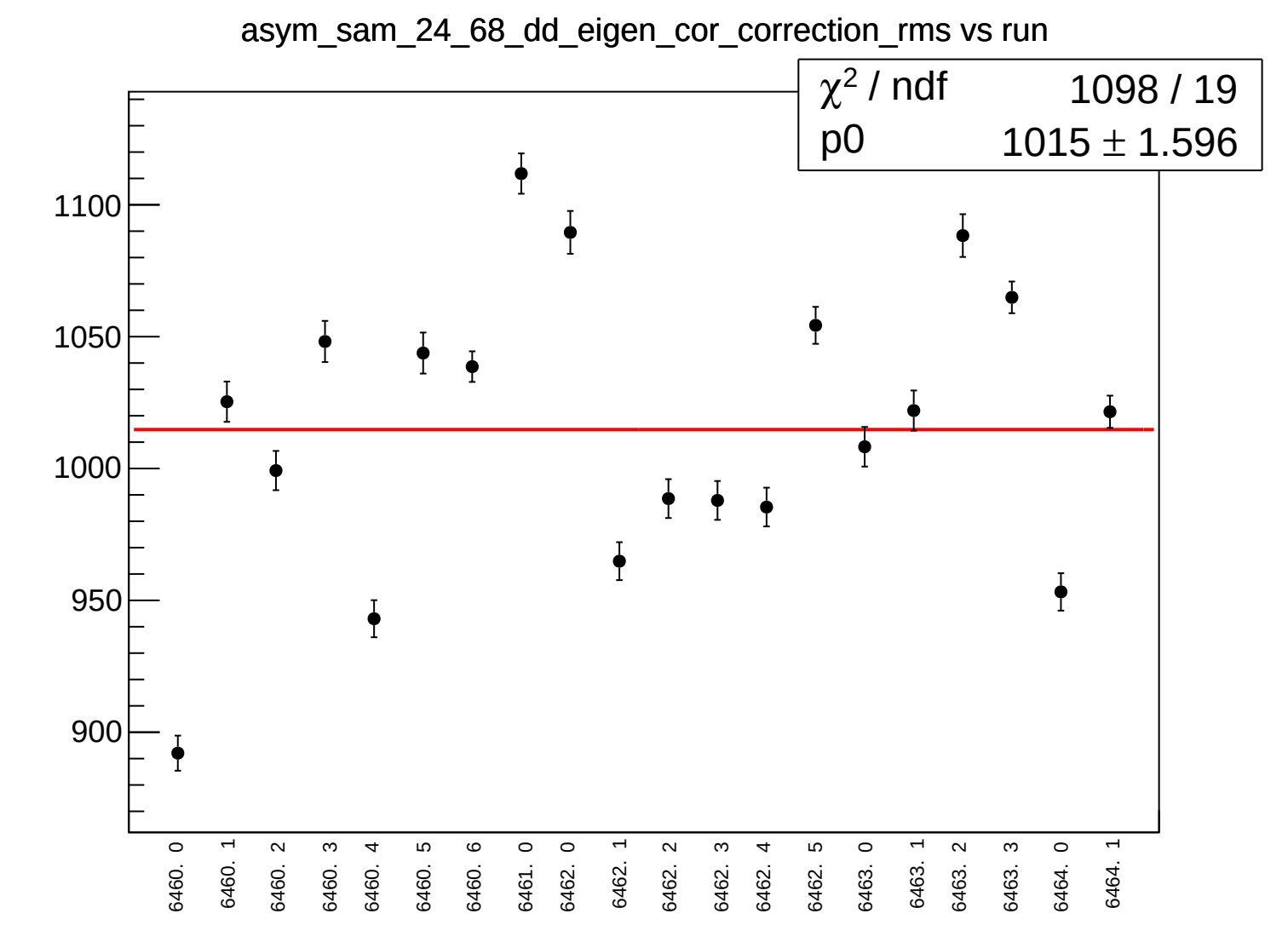
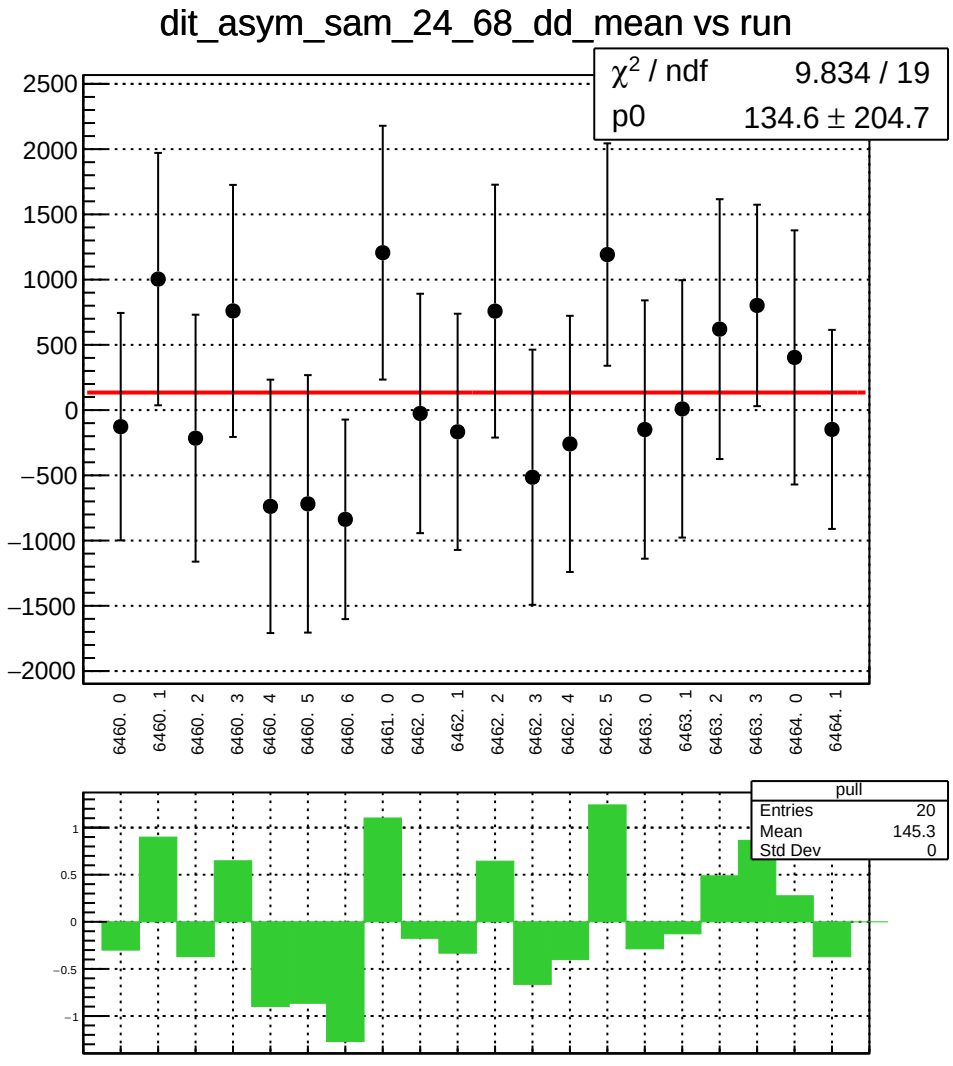
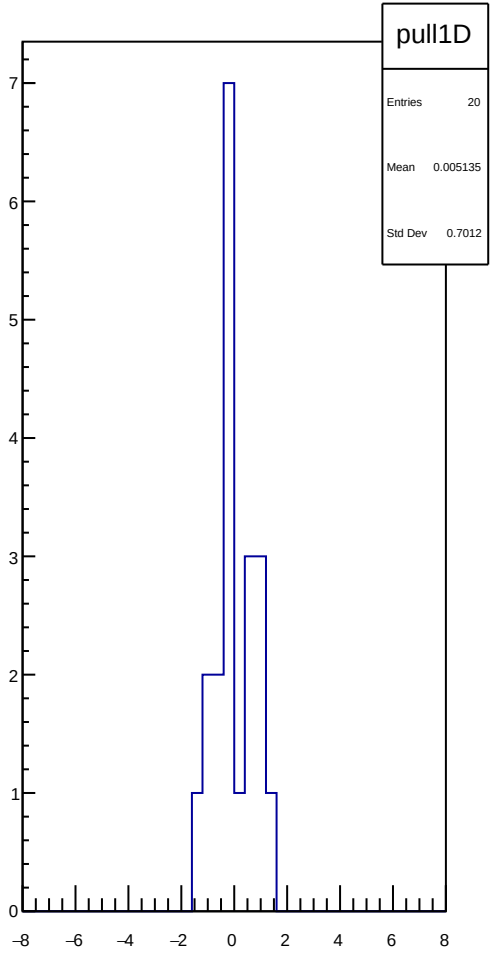
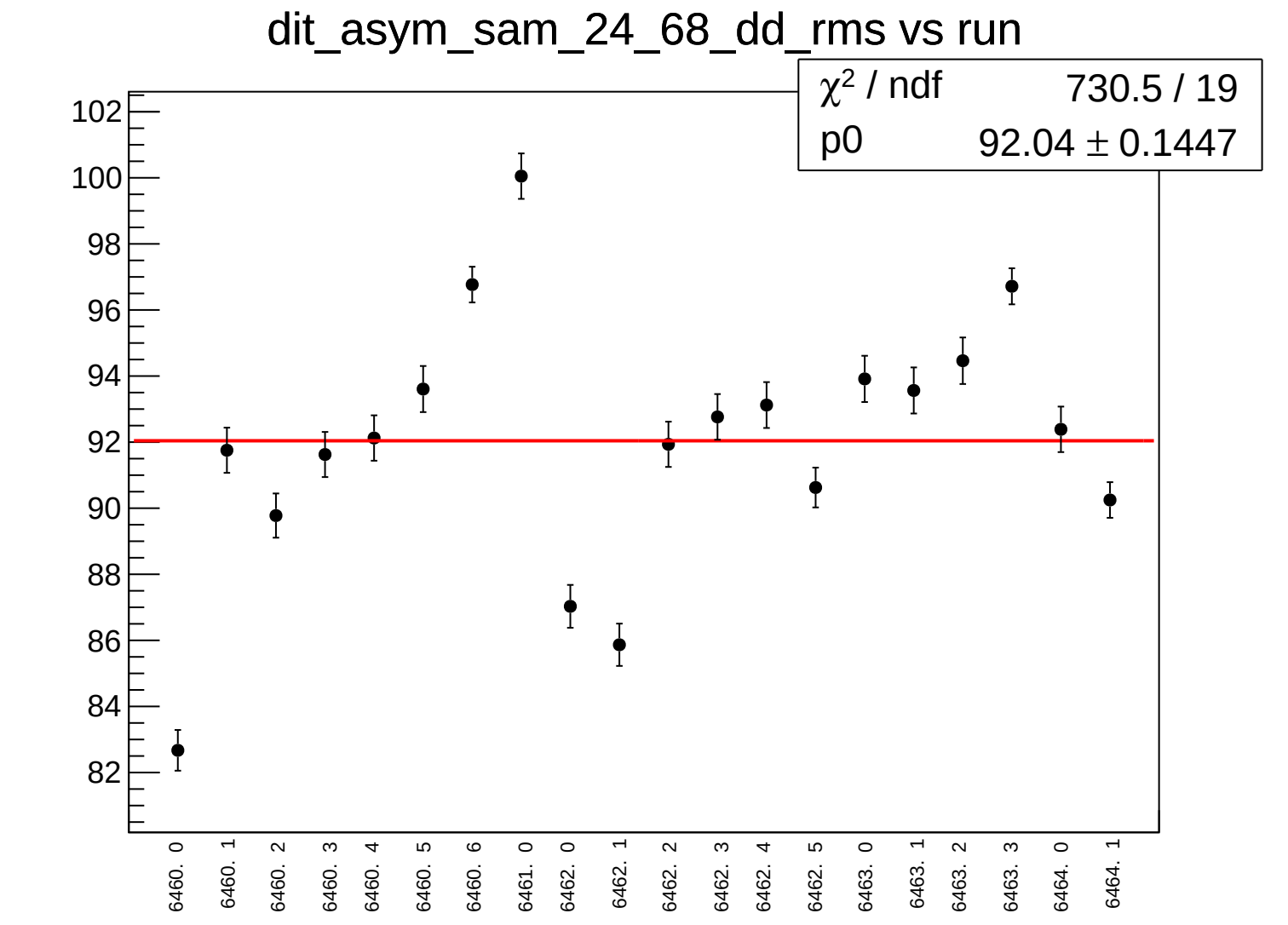
6
8


asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1098 / 19
p0 1015 ± 1.596
1100
1050
1000
950
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 9.834 / 19
p0 134.6 ± 204.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 145.3
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.005135
Std Dev 0.7012
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 730.5 / 19
p0 92.04 ± 0.1447
102
100
98
96
94
92
90
88
86
84
82
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
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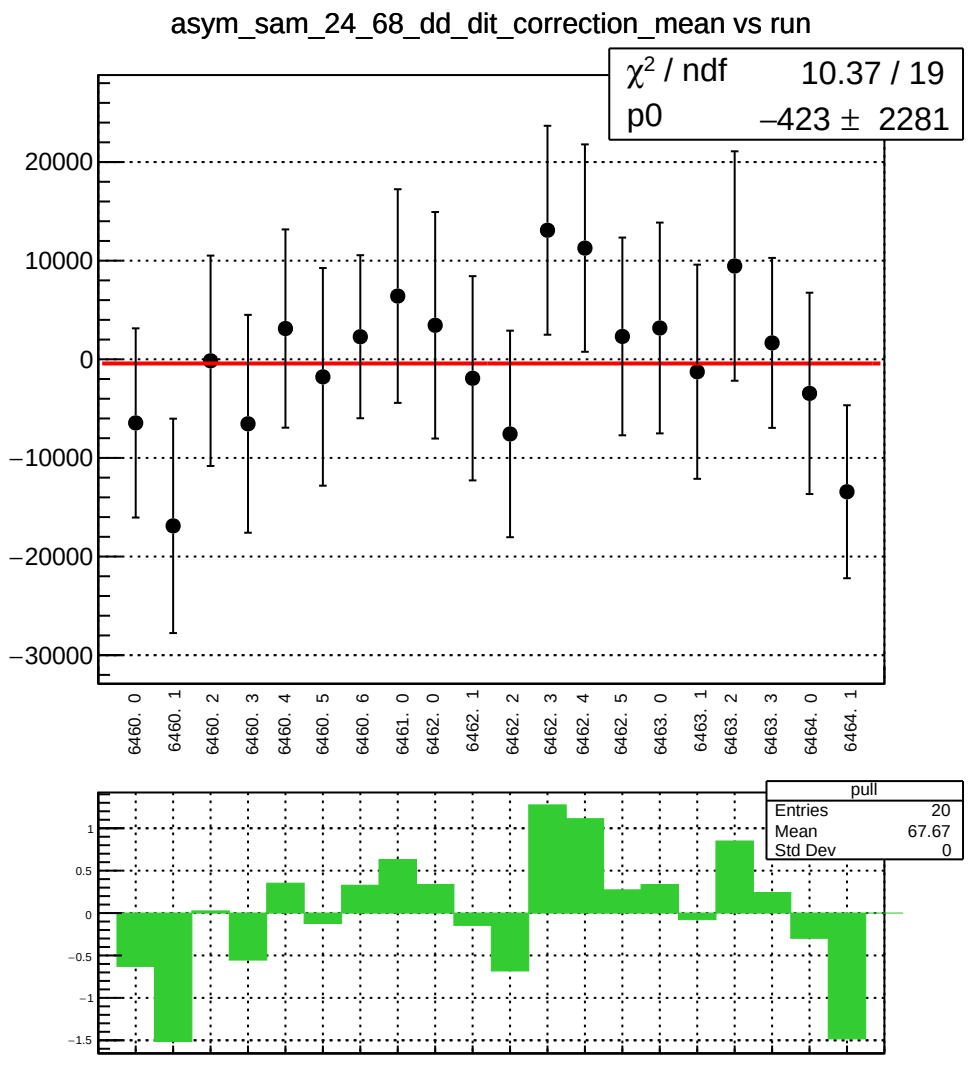
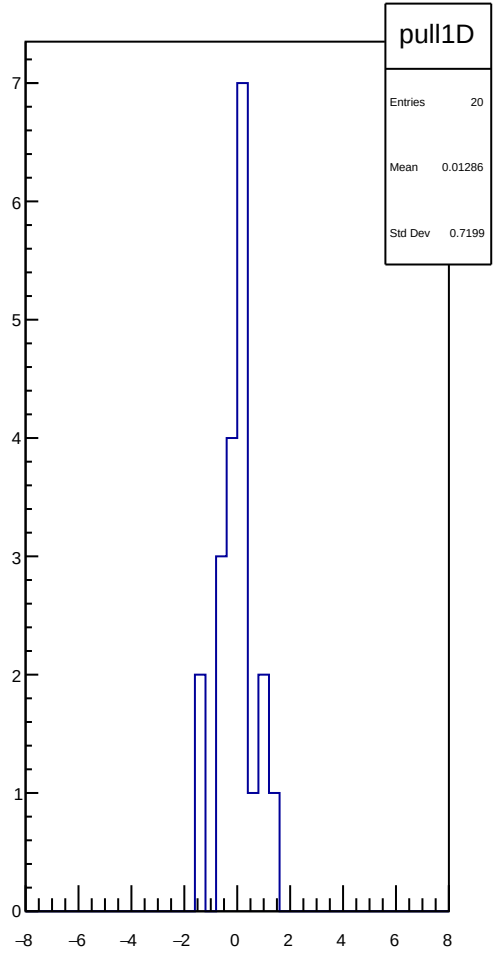
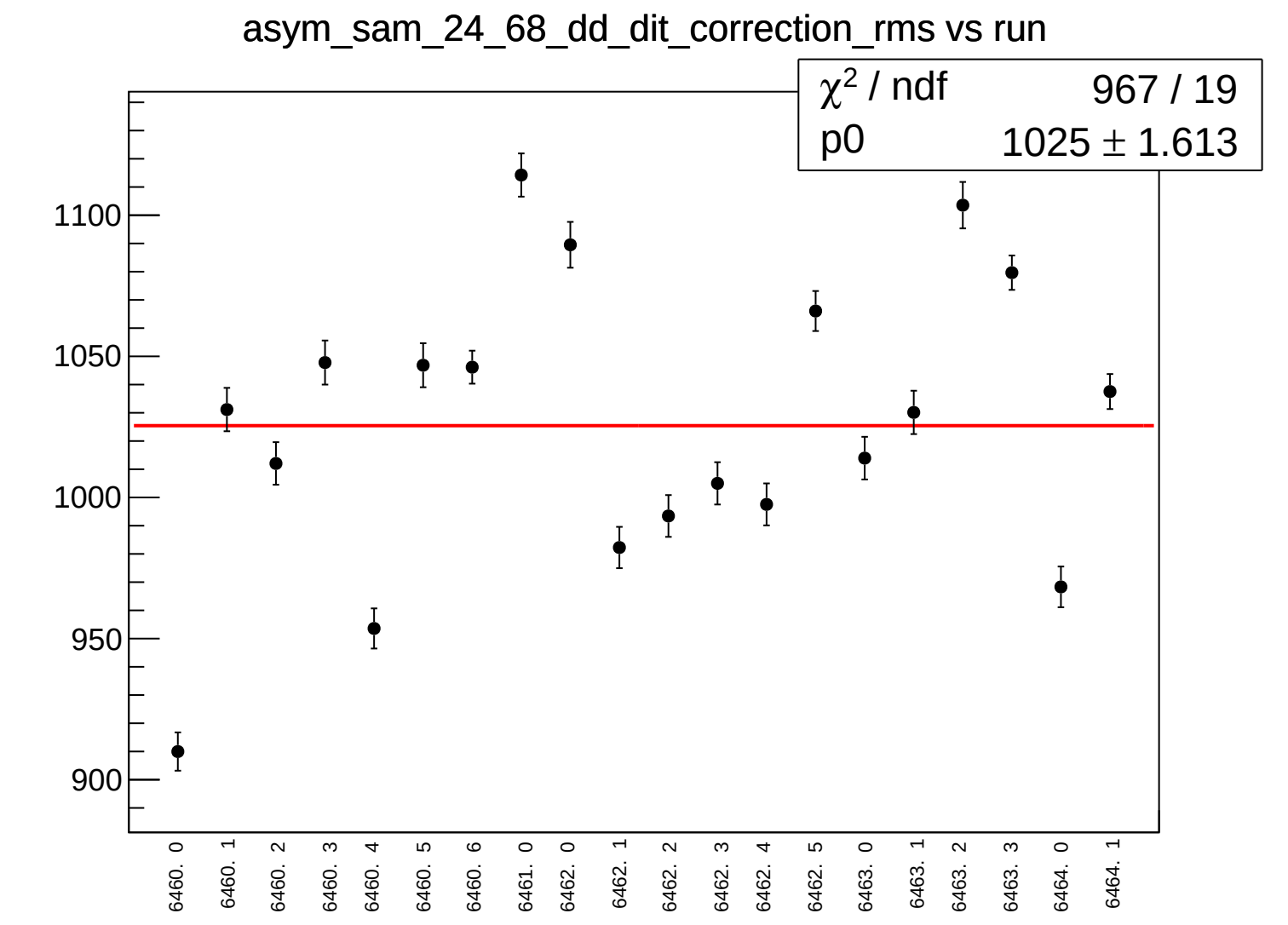
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 10.37 / 19
p0 −423 ± 2281
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 67.67
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean 0.01286
Std Dev 0.7199
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 967 / 19
p0 1025 ± 1.613
1100
1050
1000
950
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 4
6462. 5
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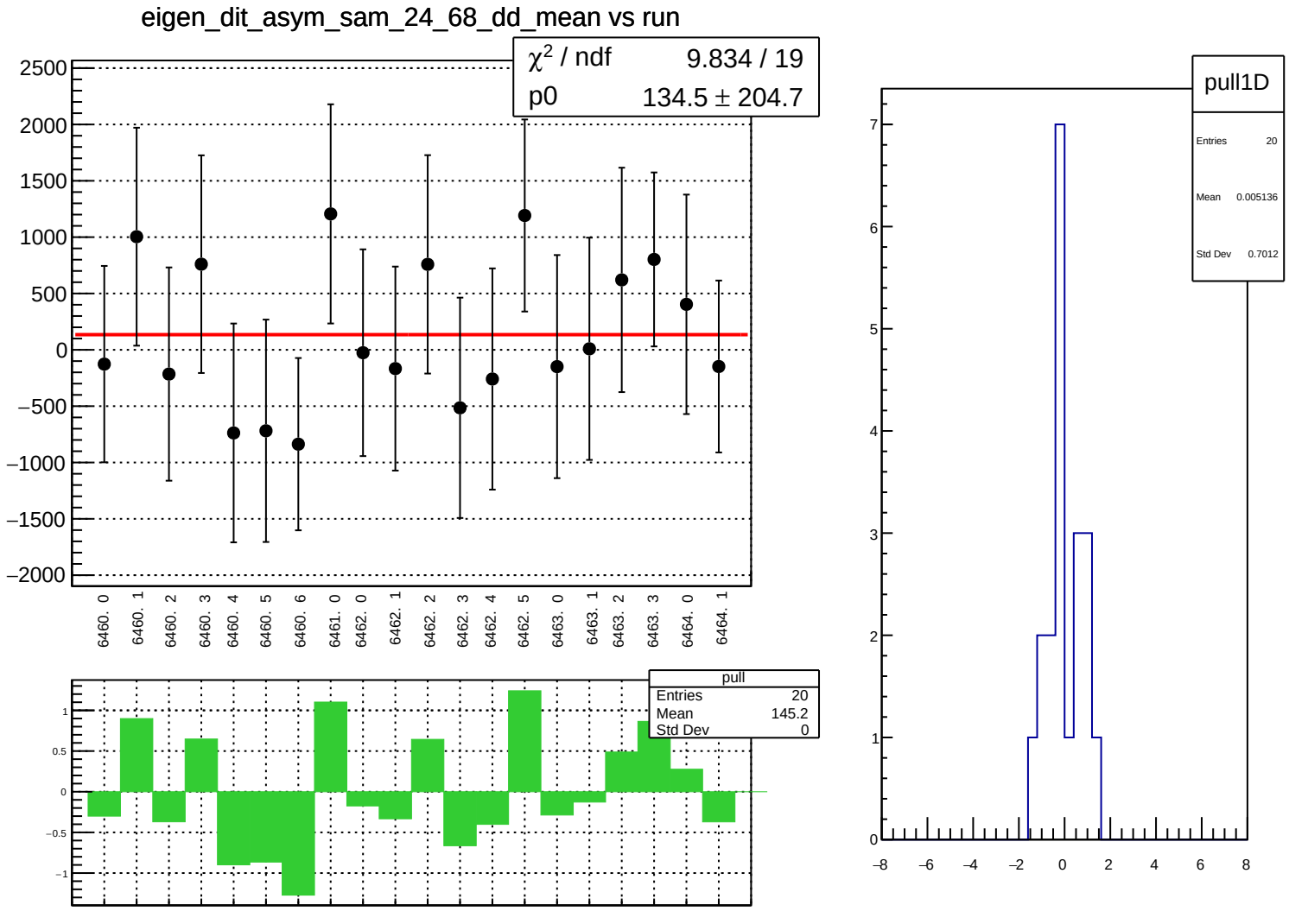
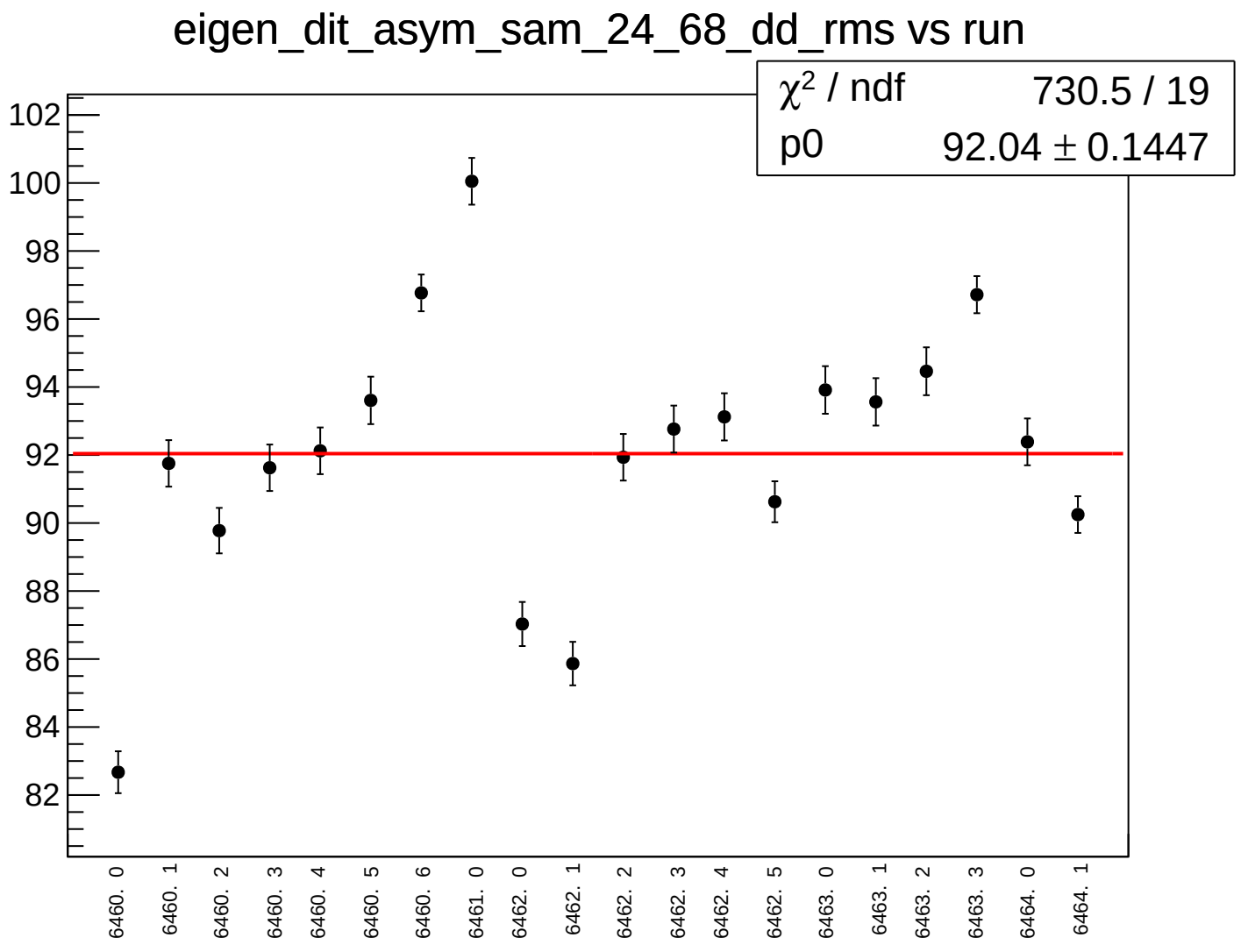
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 9.834 / 19
p0 134.5 ± 204.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 145.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.005136
Std Dev 0.7012
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 730.5 / 19
p0 92.04 ± 0.1447
102
100
98
96
94
92
90
88
86
84
82
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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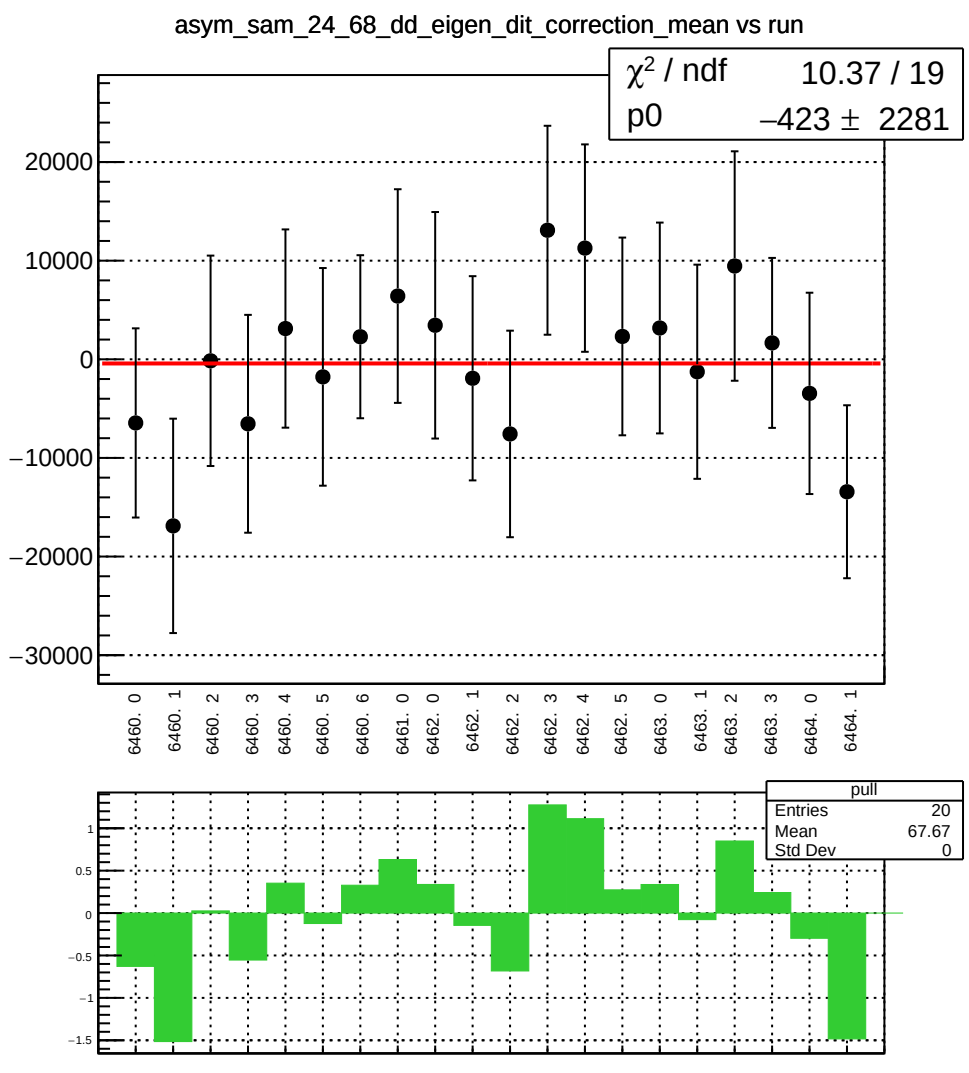
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 10.37 / 19
p0 −423 ± 2281
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 67.67
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01286
Std Dev 0.7199
7
6
5
4
3
2
1
0
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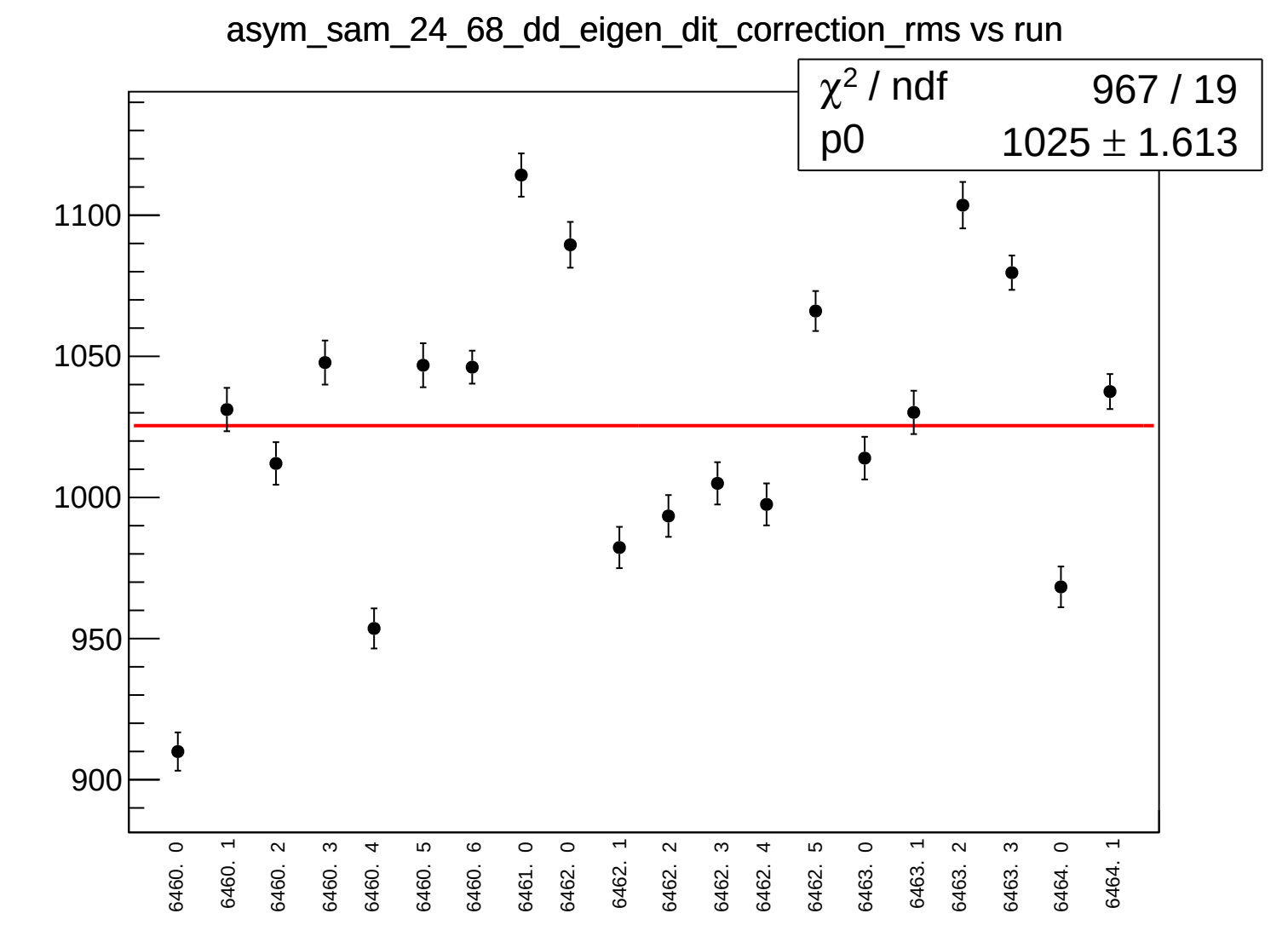
2
4
6
8


asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 967 / 19
p0 1025 ± 1.613
1100
1050
1000
950
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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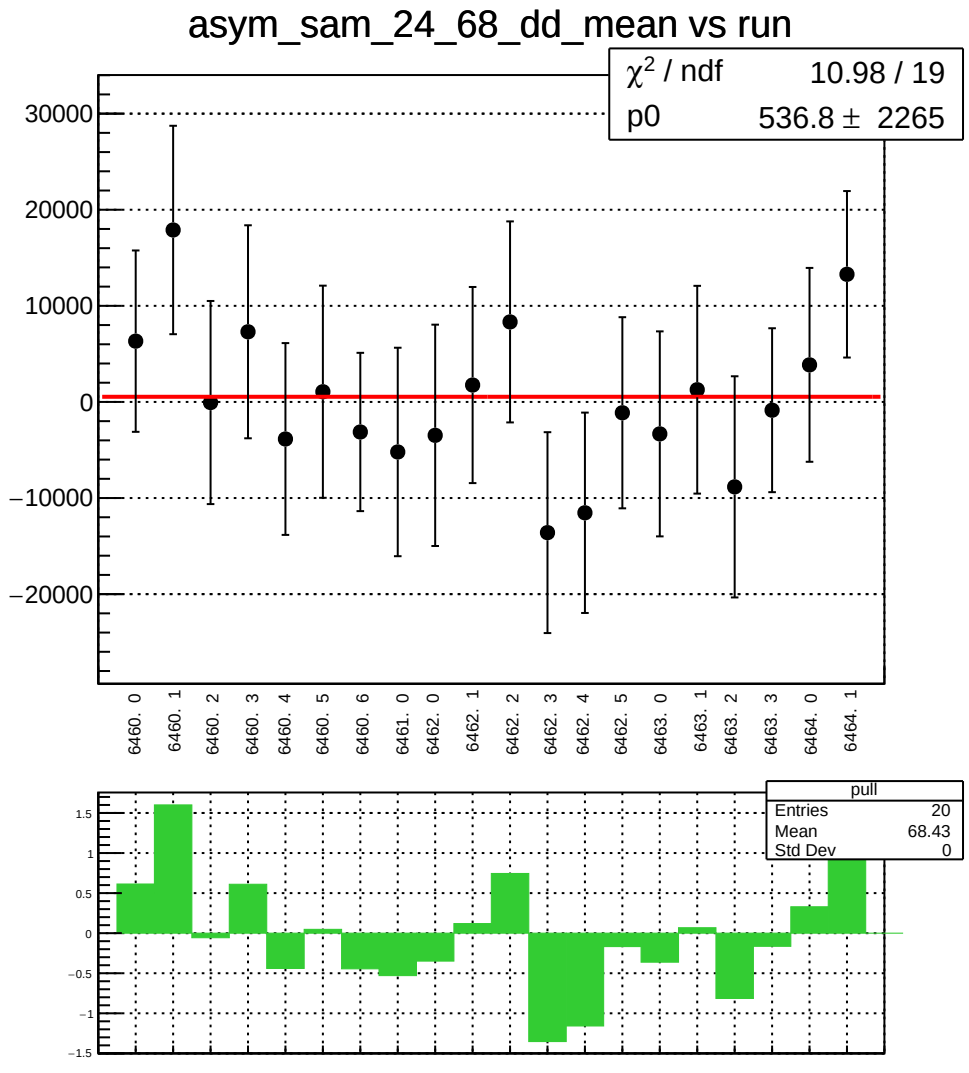
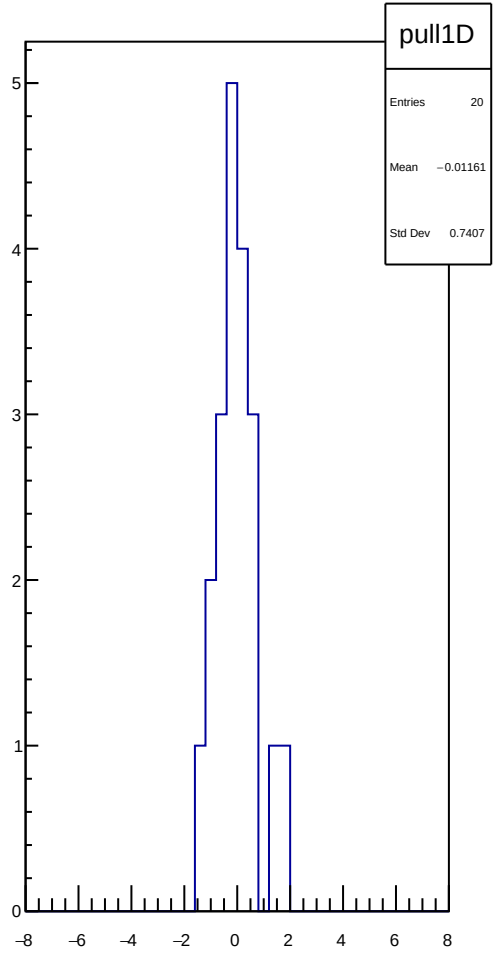
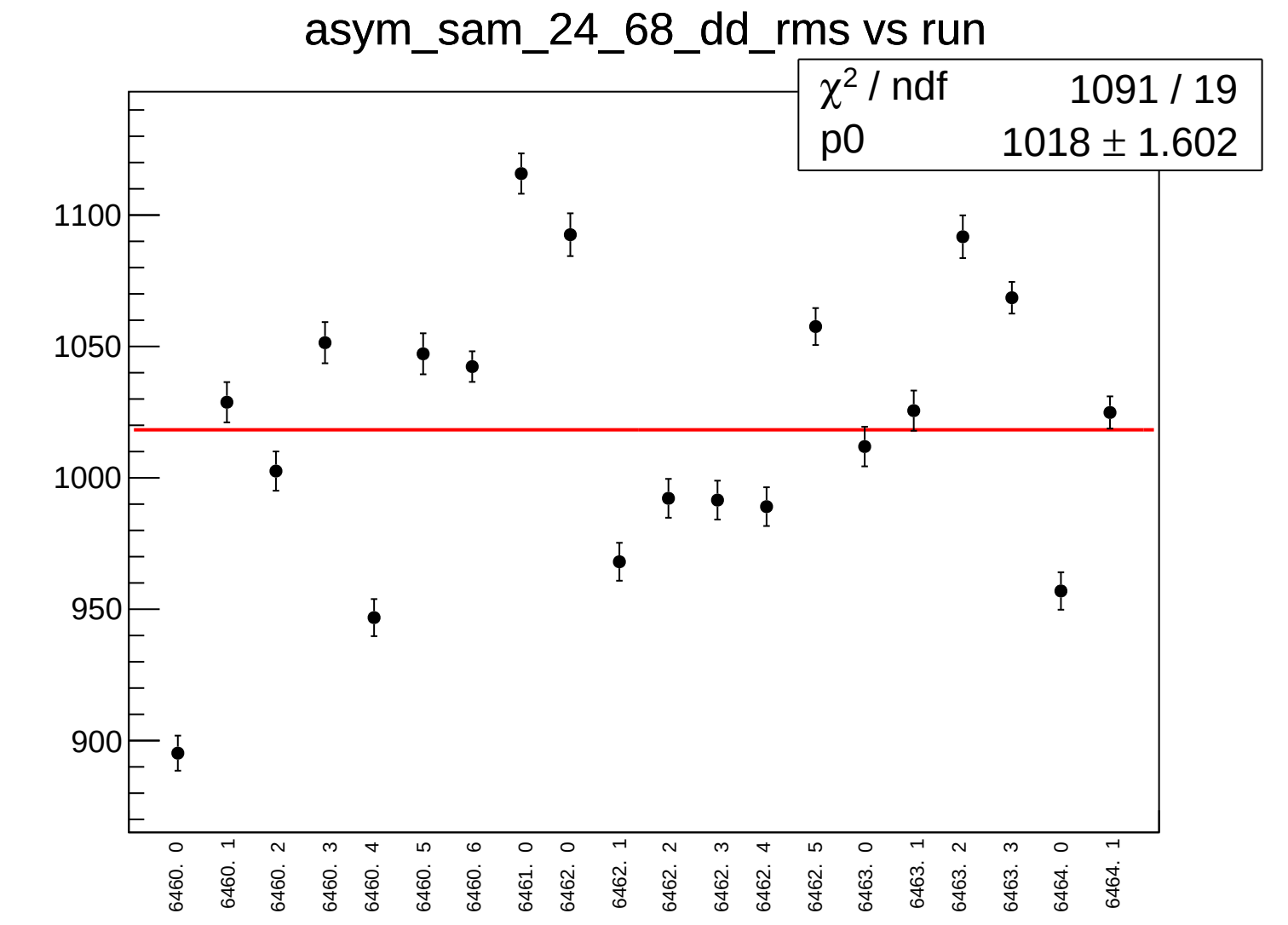
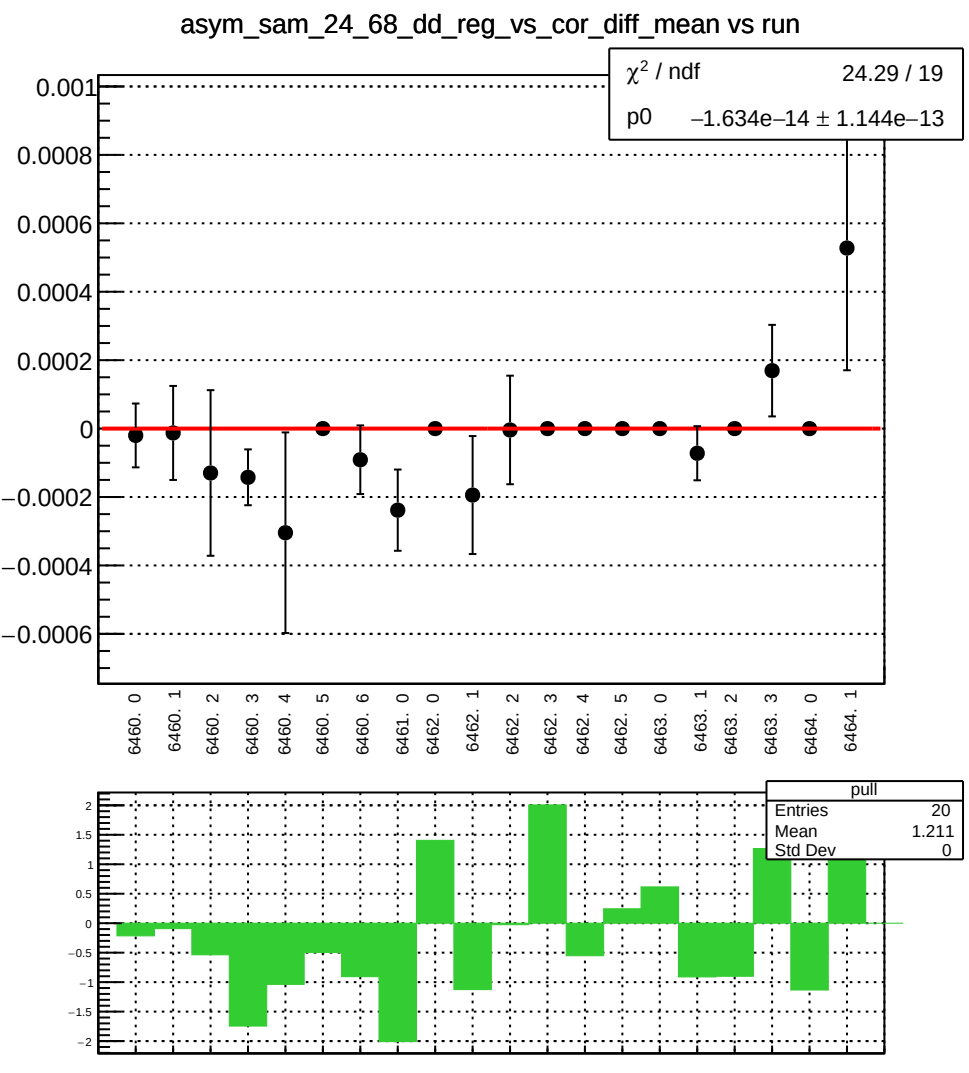
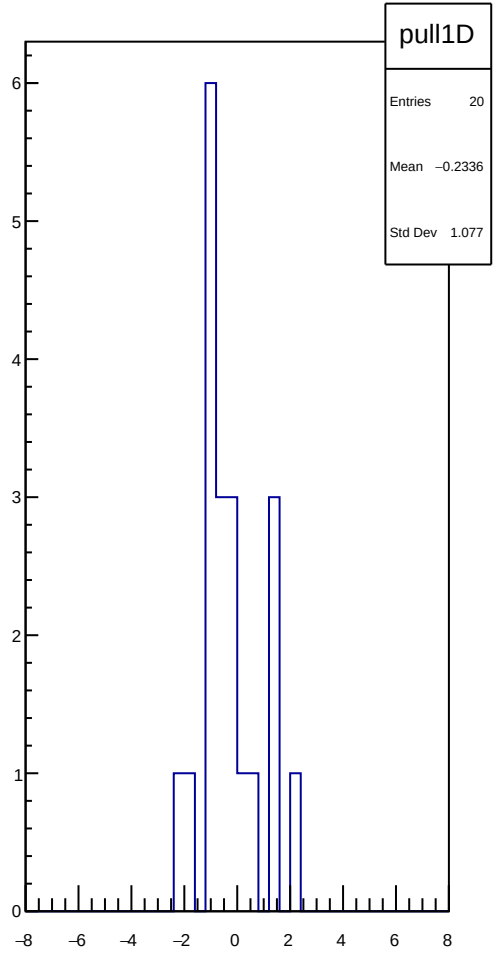
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

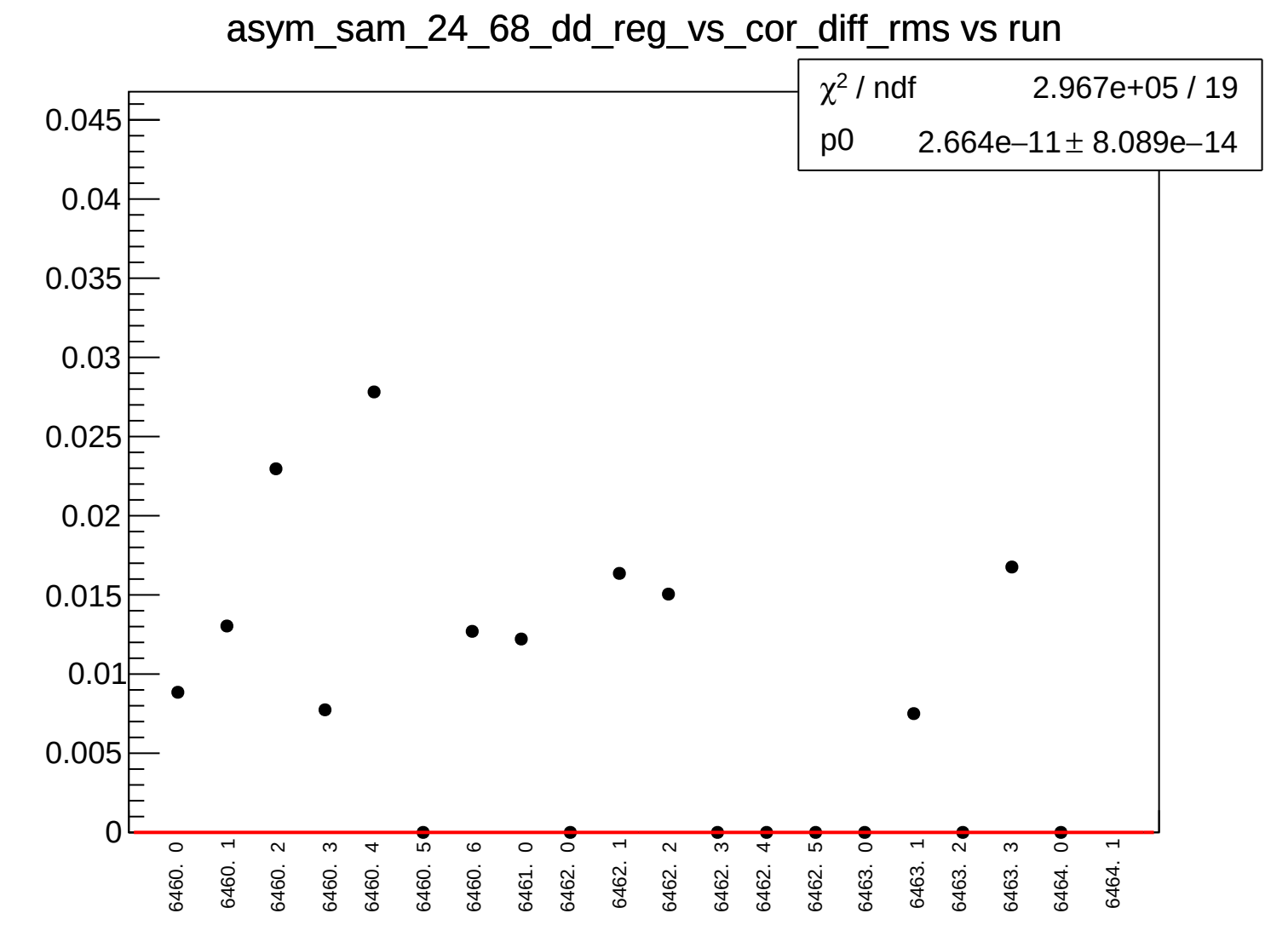

asym_sam_24_68_dd_mean vs run
χ² / ndf 10.98 / 19
p0 536.8 ± 2265
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 68.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

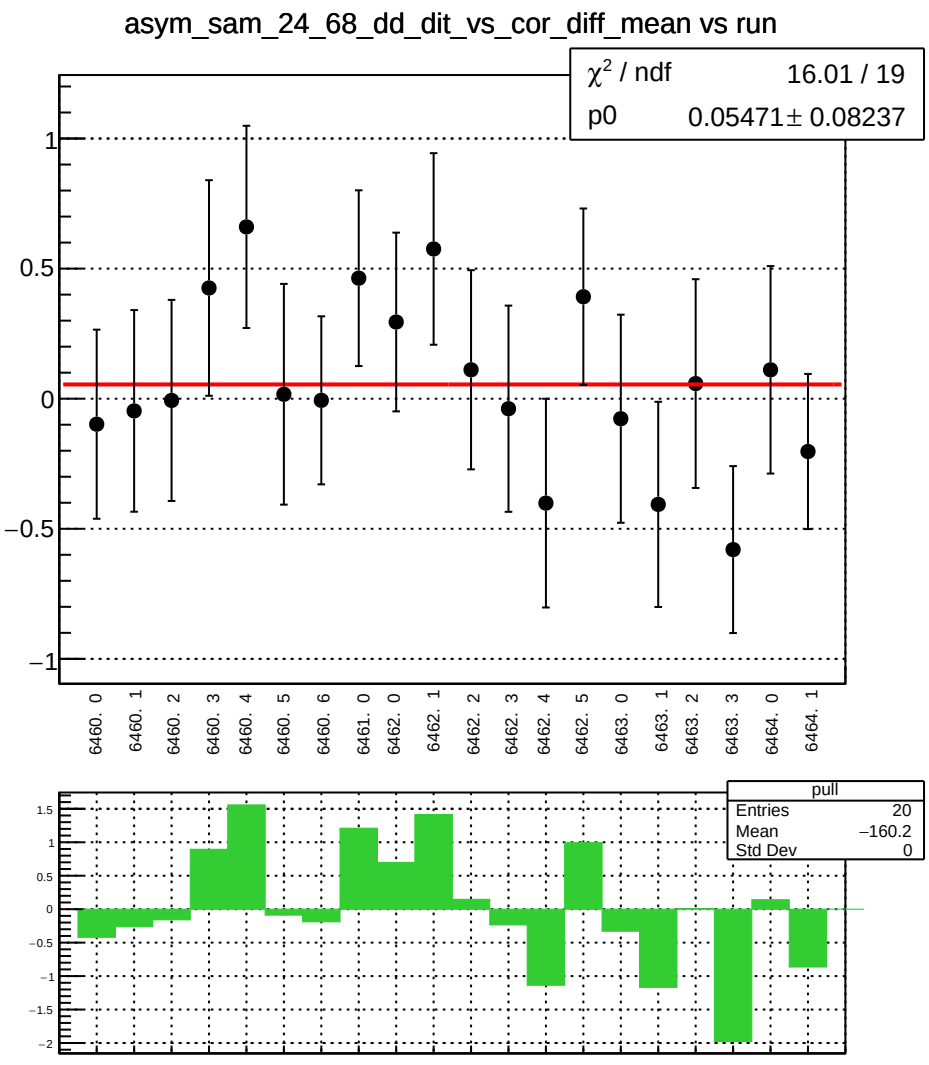

pull1D
Entries 20
Mean −0.01161
Std Dev 0.7407
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

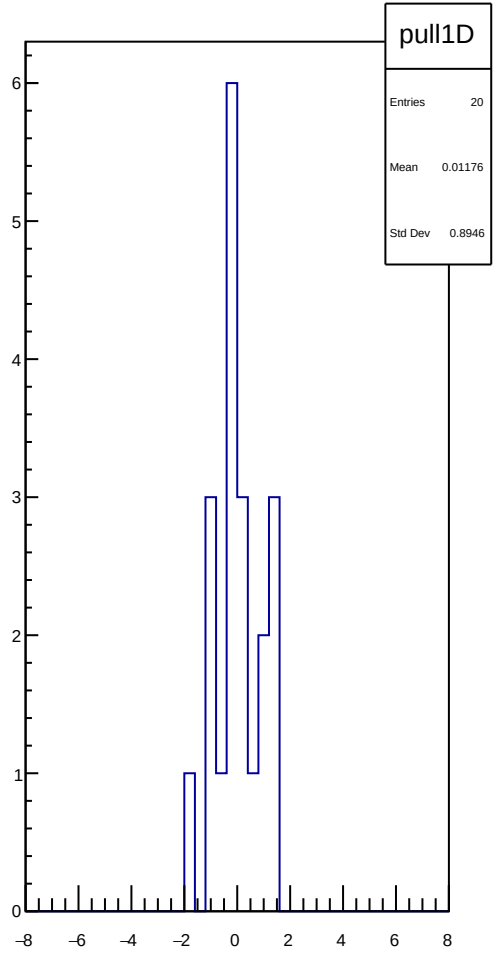

asym_sam_24_68_dd_rms vs run
χ² / ndf 1091 / 19
p0 1018 ± 1.602
1100
1050
1000
950
900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

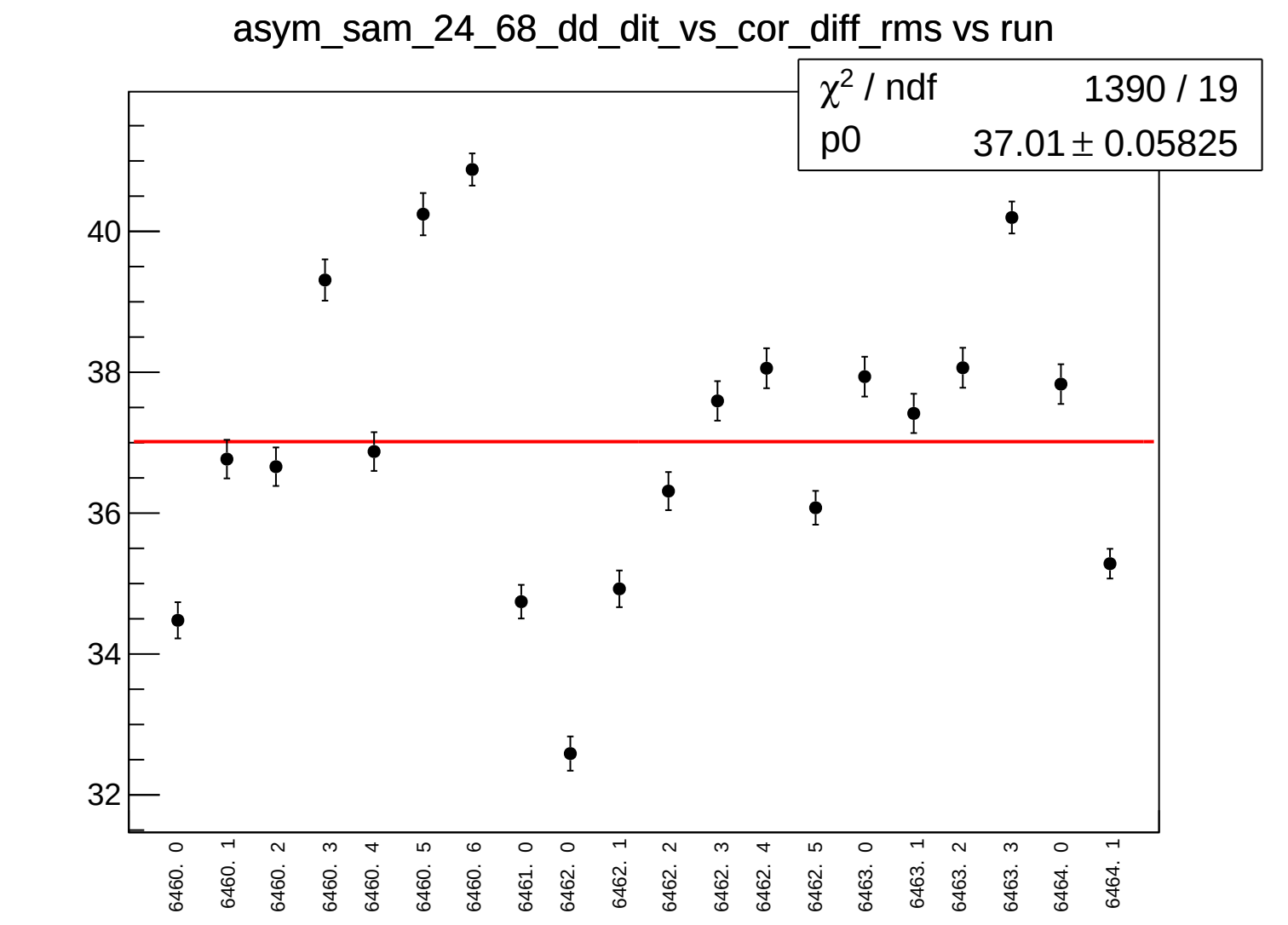

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.29 / 19
p0 −1.634e−14 ± 1.144e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.211
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

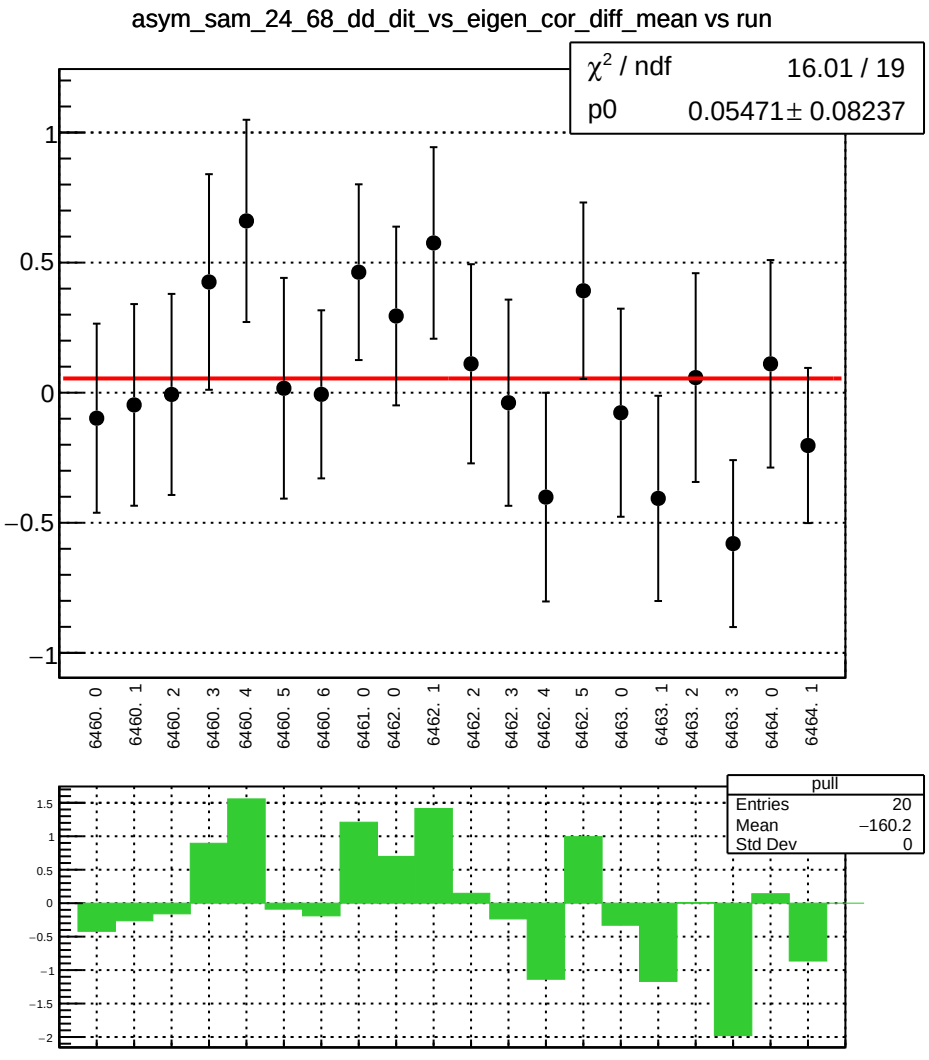

pull1D
Entries 20
Mean −0.2336
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

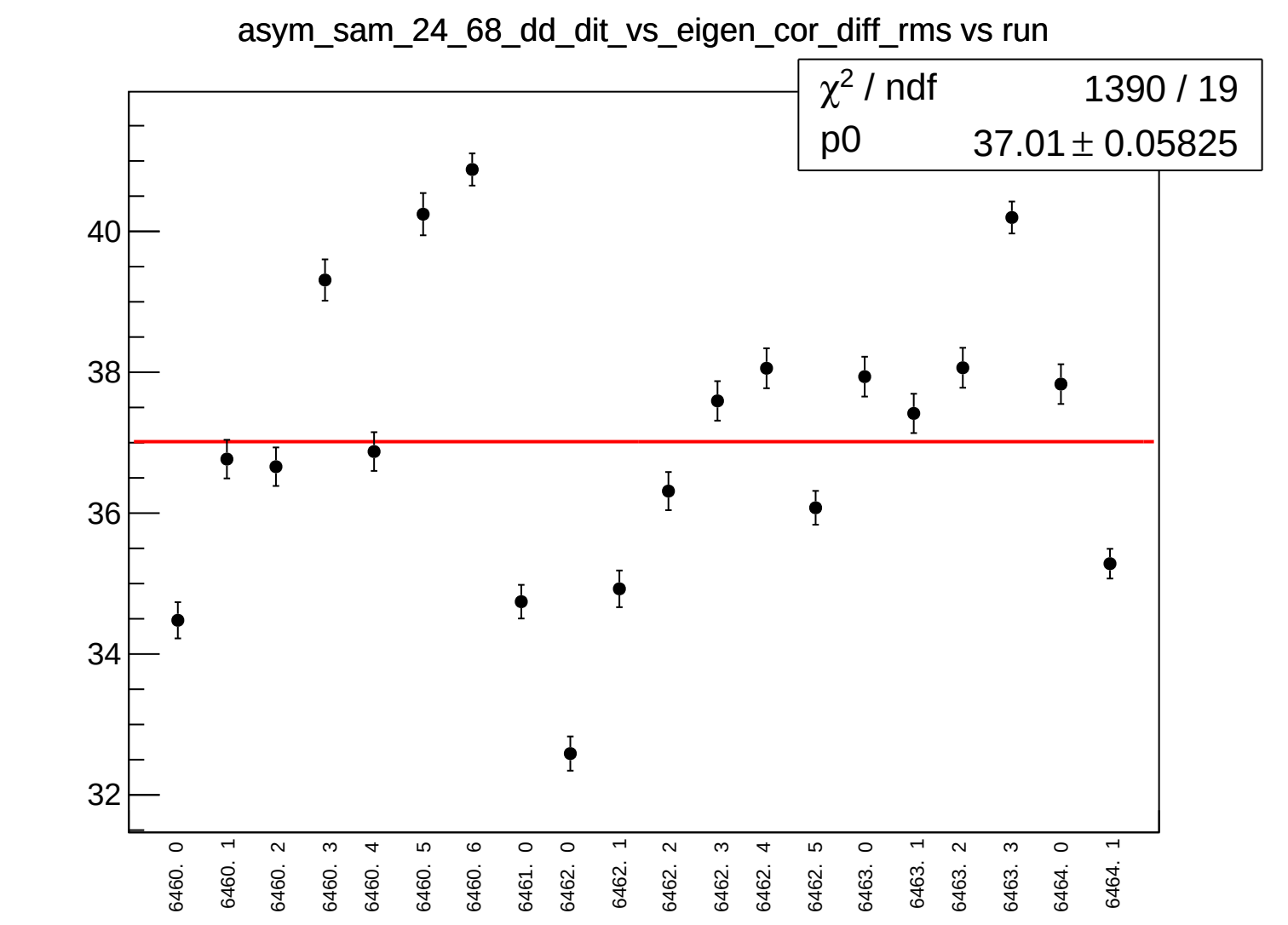

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.967e+05 / 19
p0 2.664e−11 ± 8.089e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

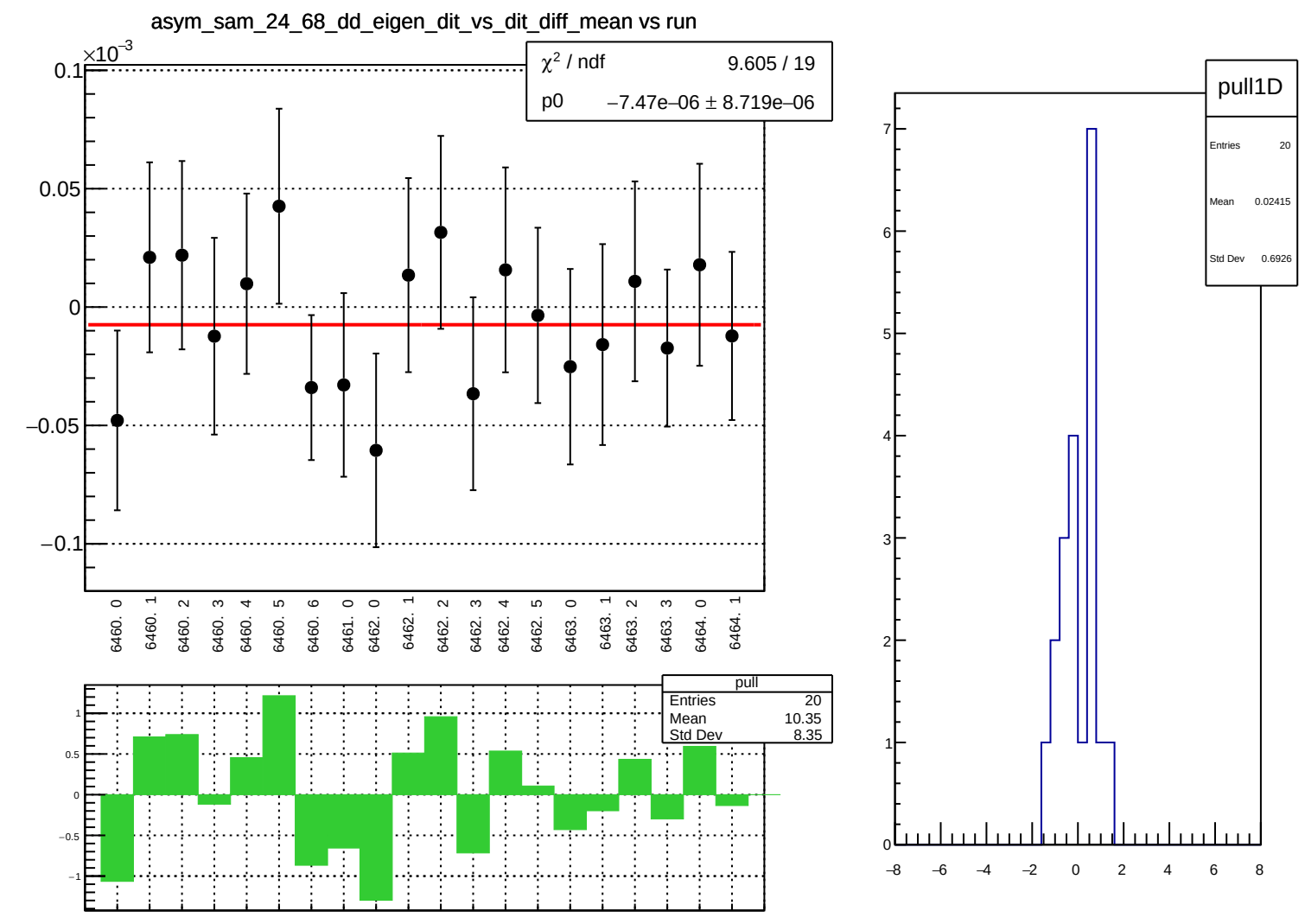

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 16.01 / 19
p0 0.05471 ± 0.08237
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −160.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

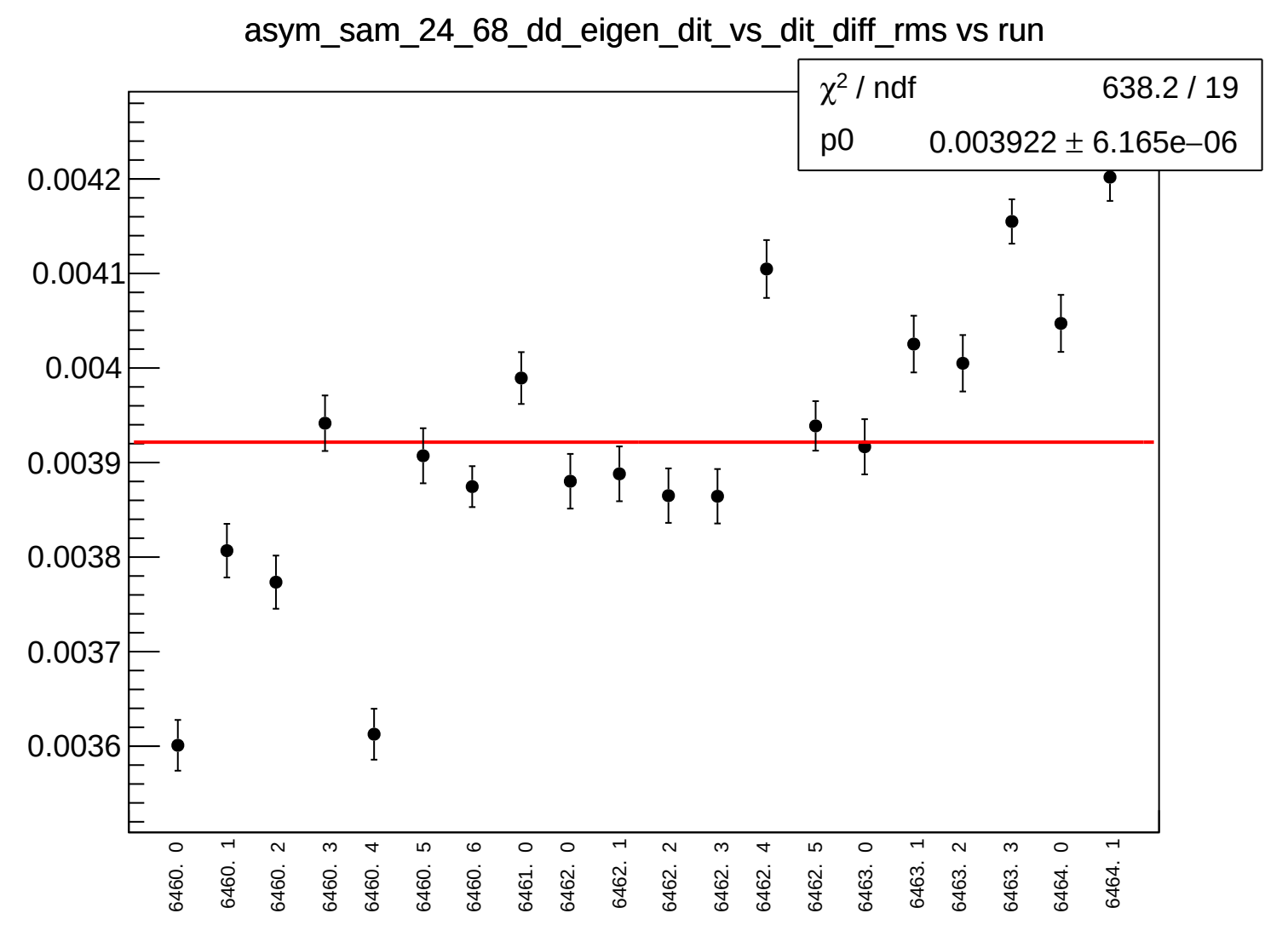

pull1D
Entries 20
Mean 0.01176
Std Dev 0.8946
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

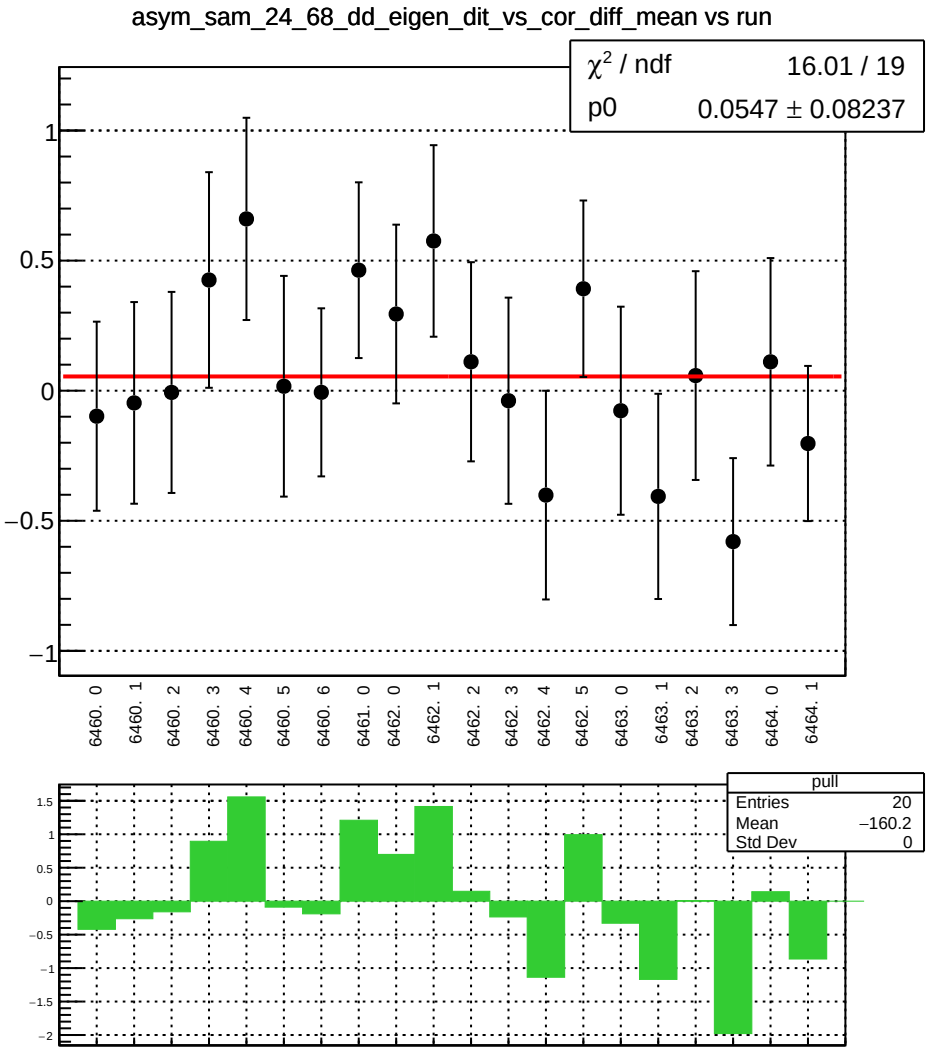

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1390 / 19
p0 37.01 ± 0.05825
40
38
36
34
32
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

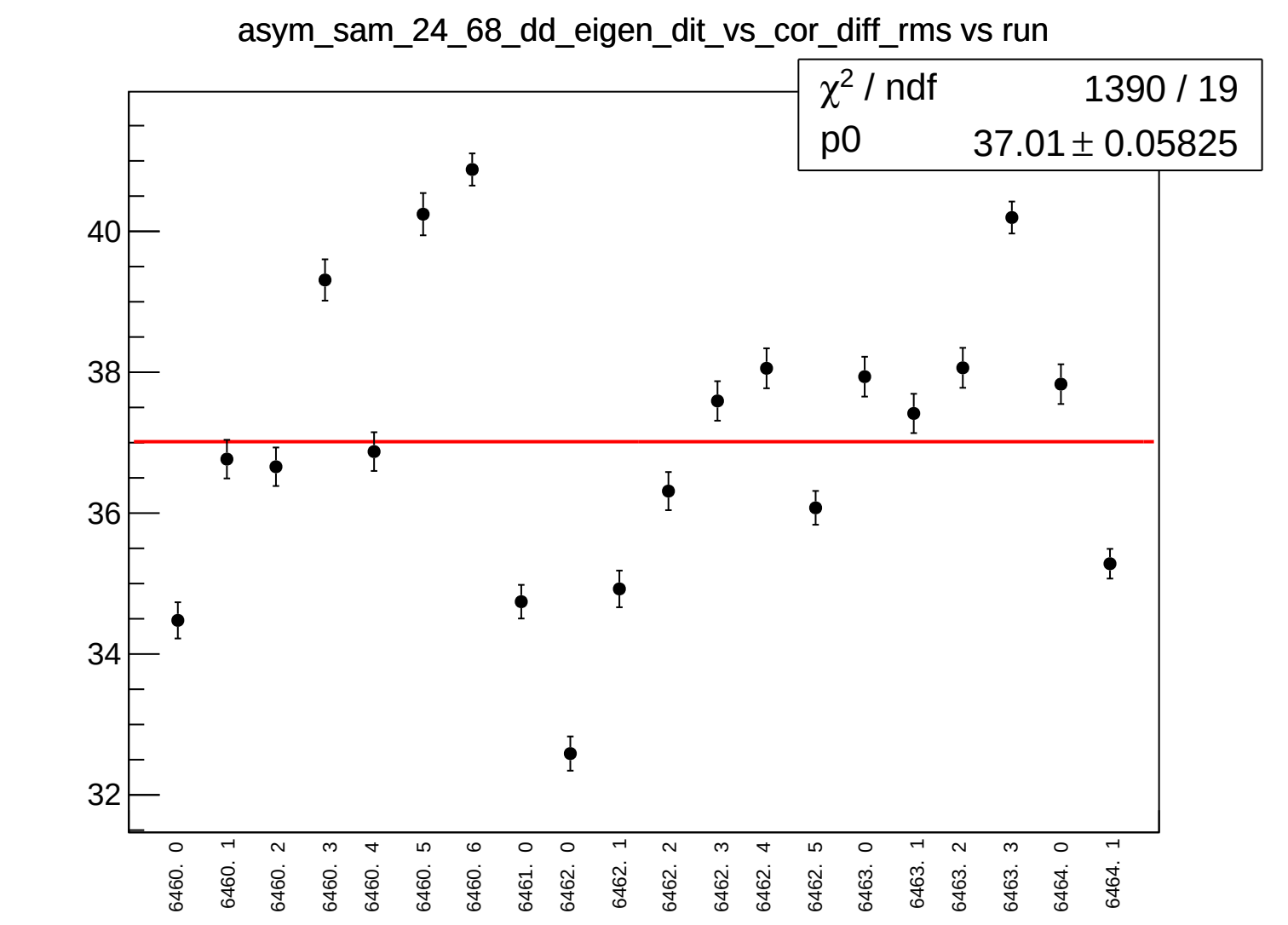

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.01 / 19
p0 0.05471± 0.08237
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −160.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.01176
Std Dev 0.8946
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

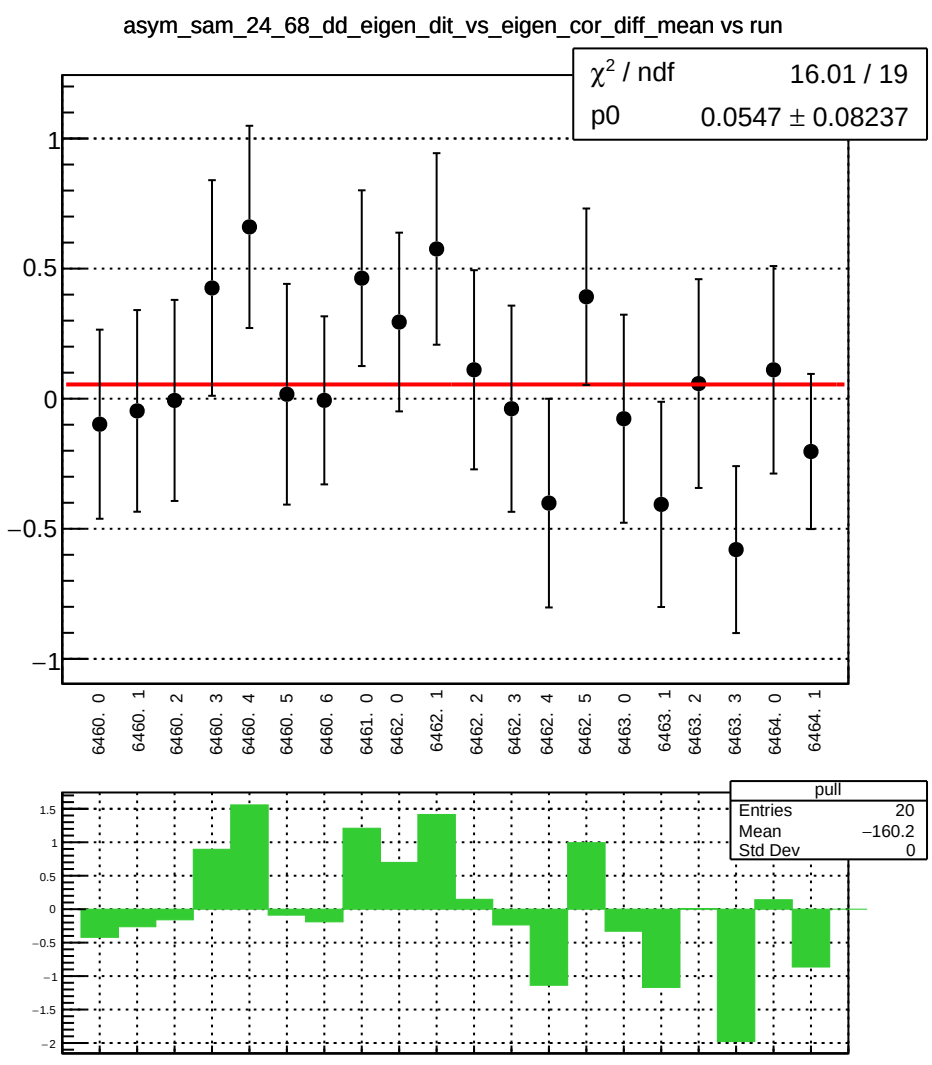

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1390 / 19
p0 37.01 ± 0.05825
40
38
36
34
32
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

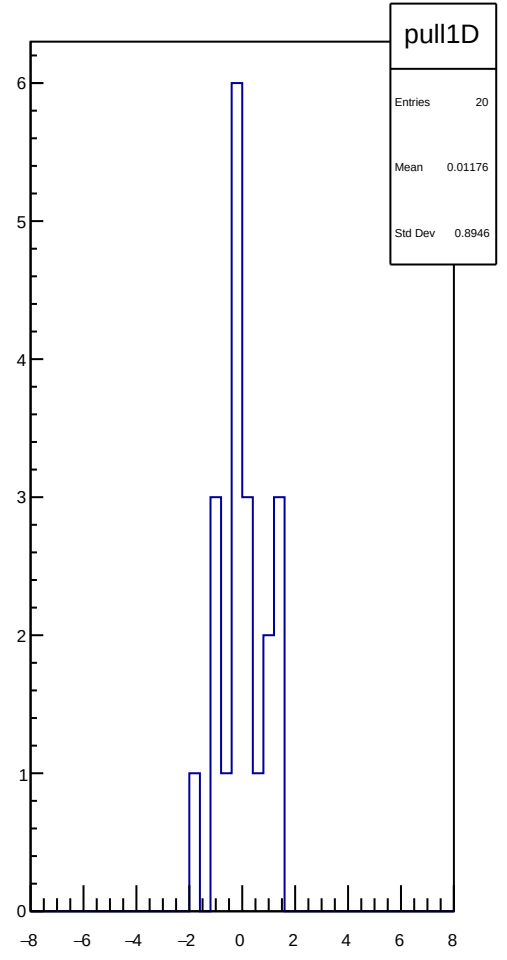

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 9.605 / 19
p0 −7.47e−06 ± 8.719e−06
0.1
0.05
0
−0.05
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10.35
Std Dev 8.35
pull1D
Entries 20
Mean 0.02415
Std Dev 0.6926

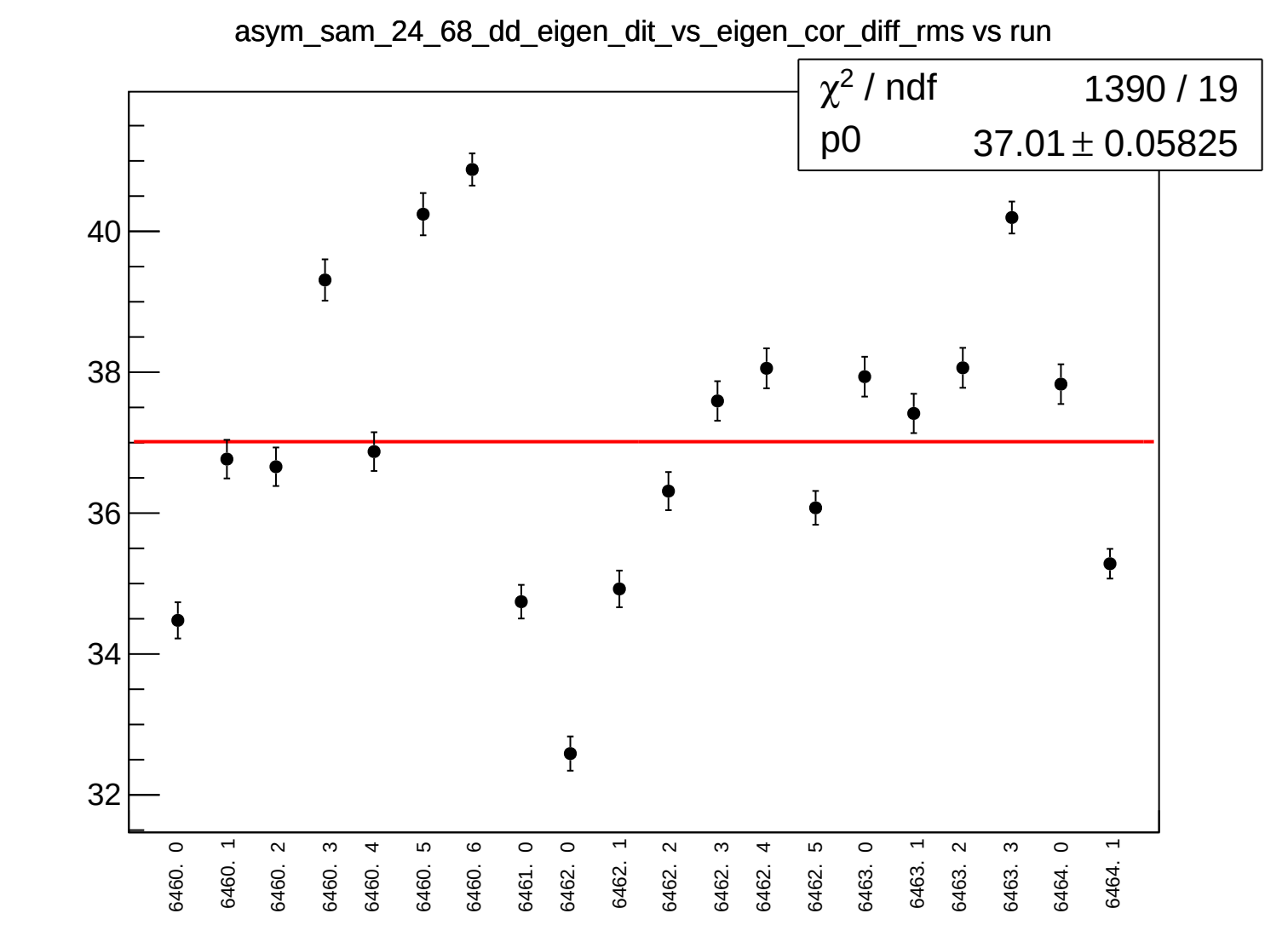

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 638.2 / 19
p0 0.003922 ± 6.165e−06
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

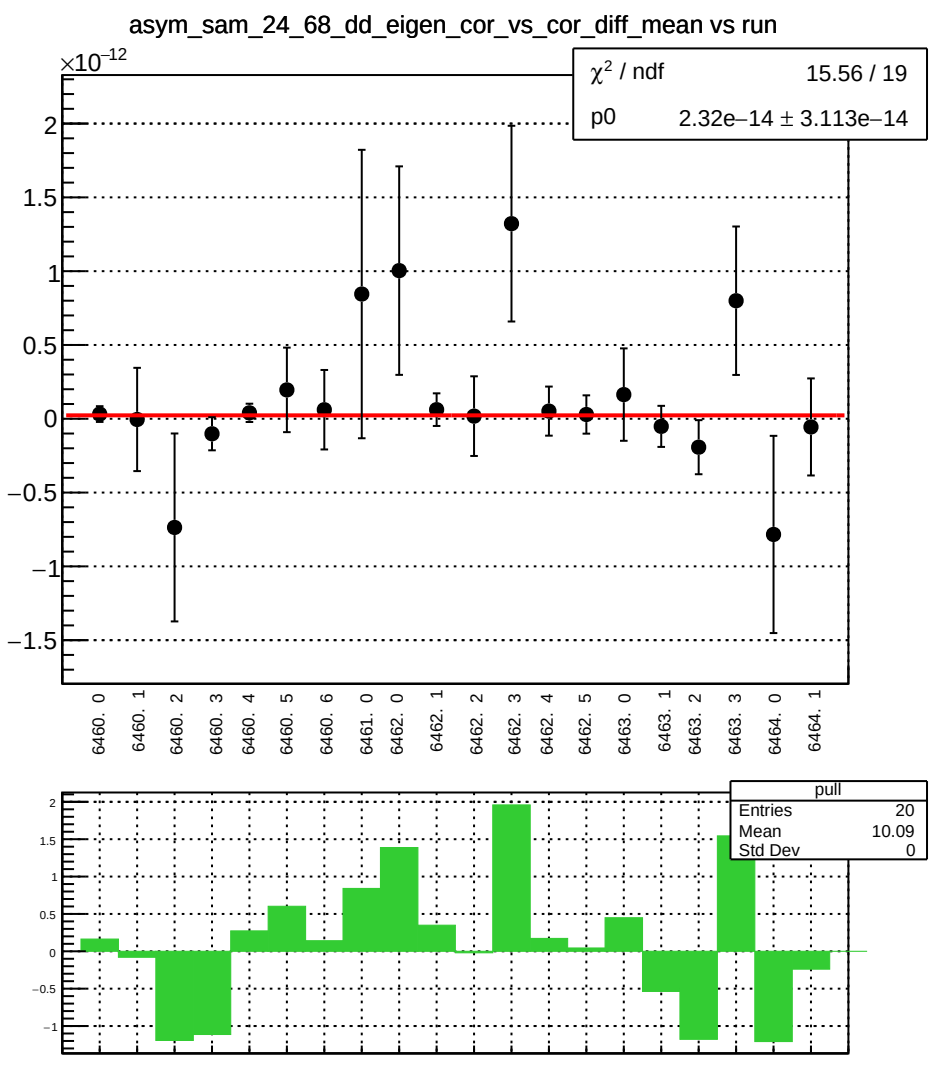

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.01 / 19
p0 0.0547 ± 0.08237
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −160.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.01176
Std Dev 0.8946
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

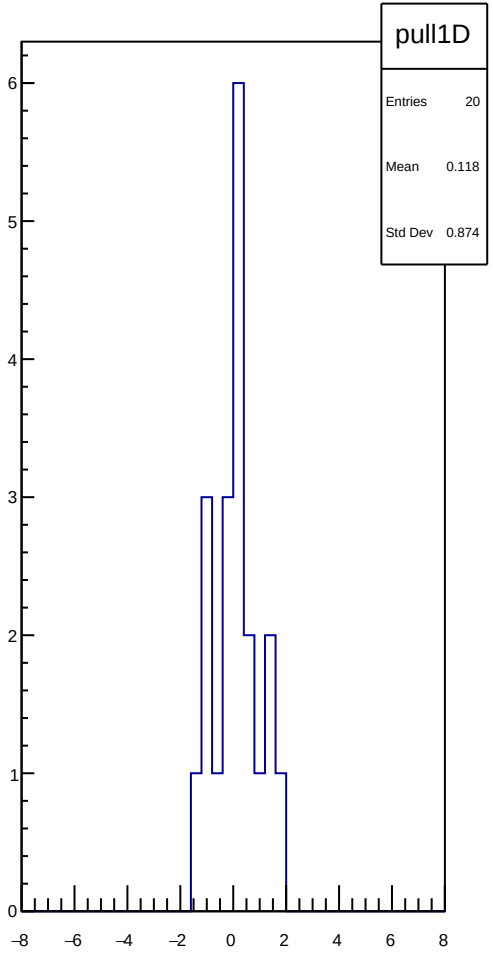

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1390 / 19
p0 37.01 ± 0.05825
40
38
36
34
32
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

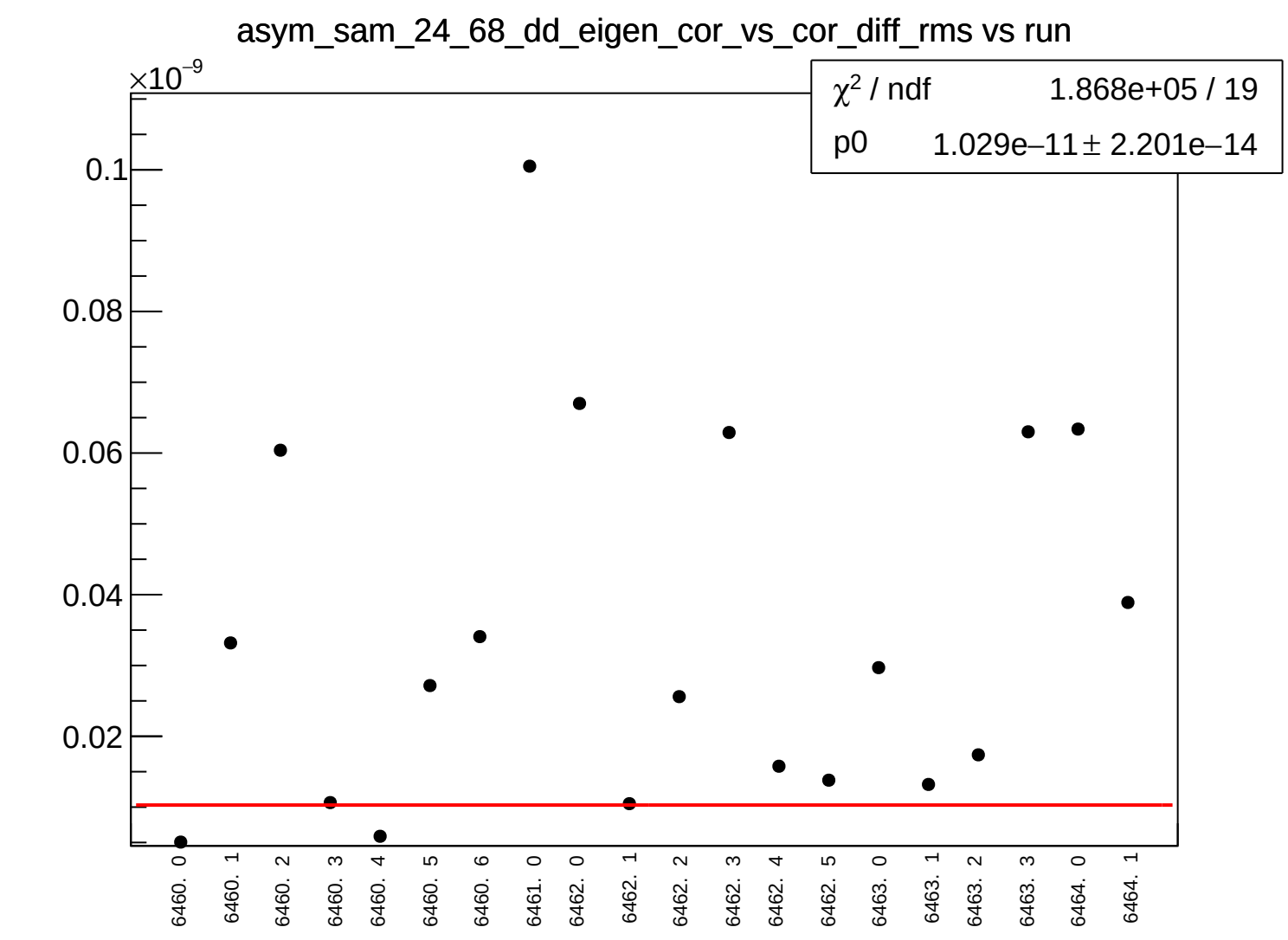

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.01 / 19
p0 0.0547 ± 0.08237
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −160.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

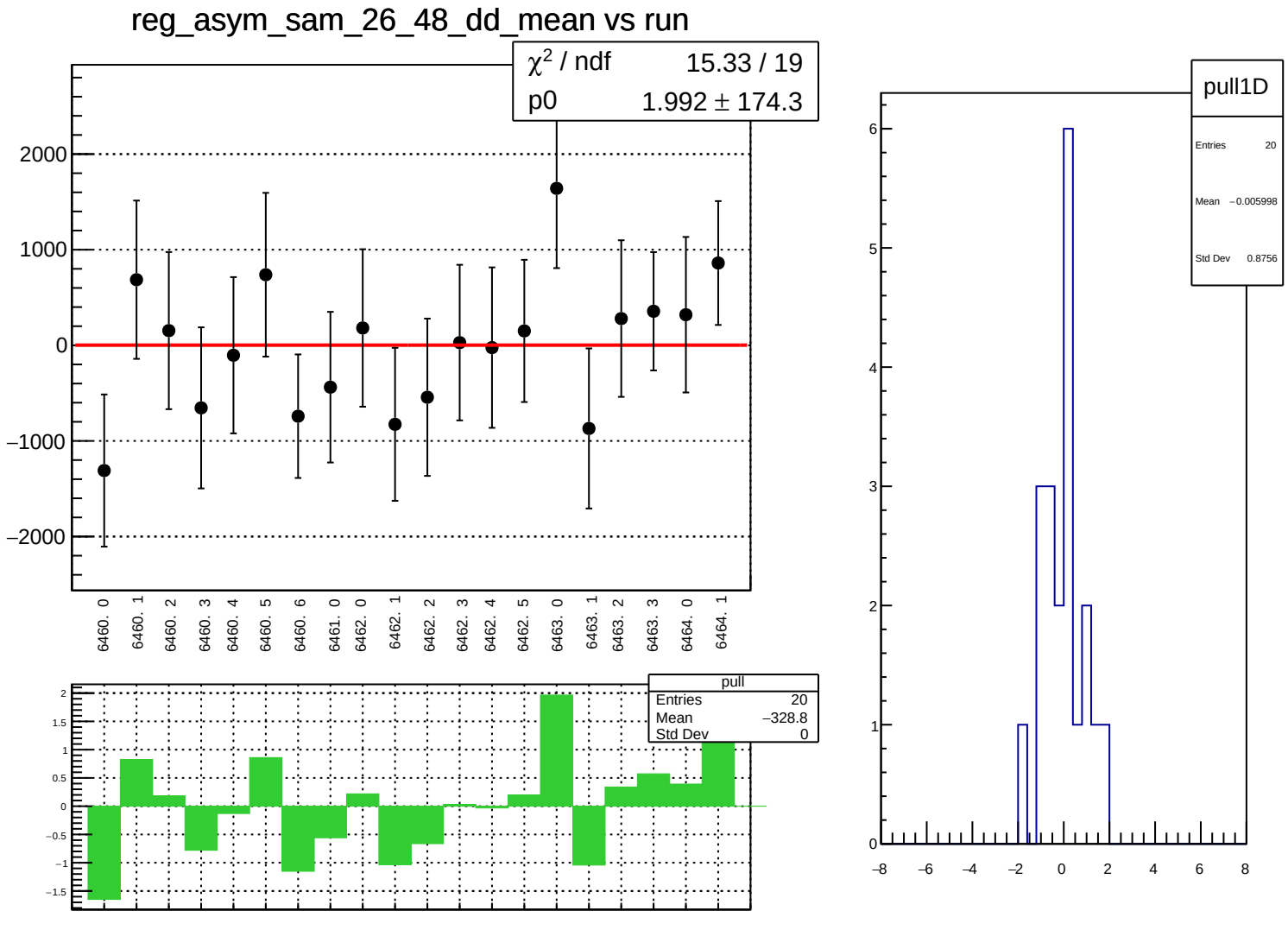

pull1D
Entries 20
Mean 0.01176
Std Dev 0.8946
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

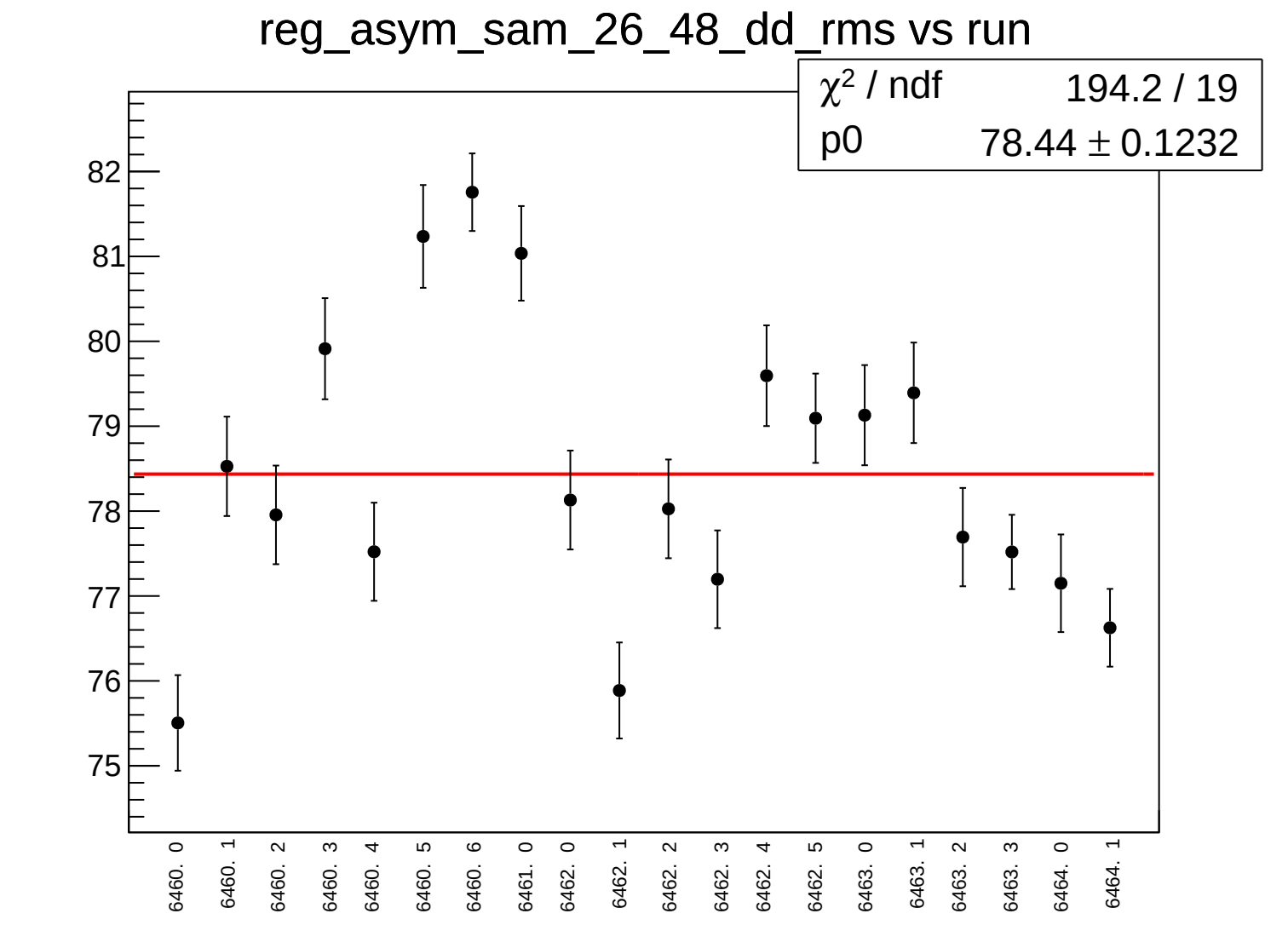

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1390 / 19
p0 37.01 ± 0.05825
40
38
36
34
32
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

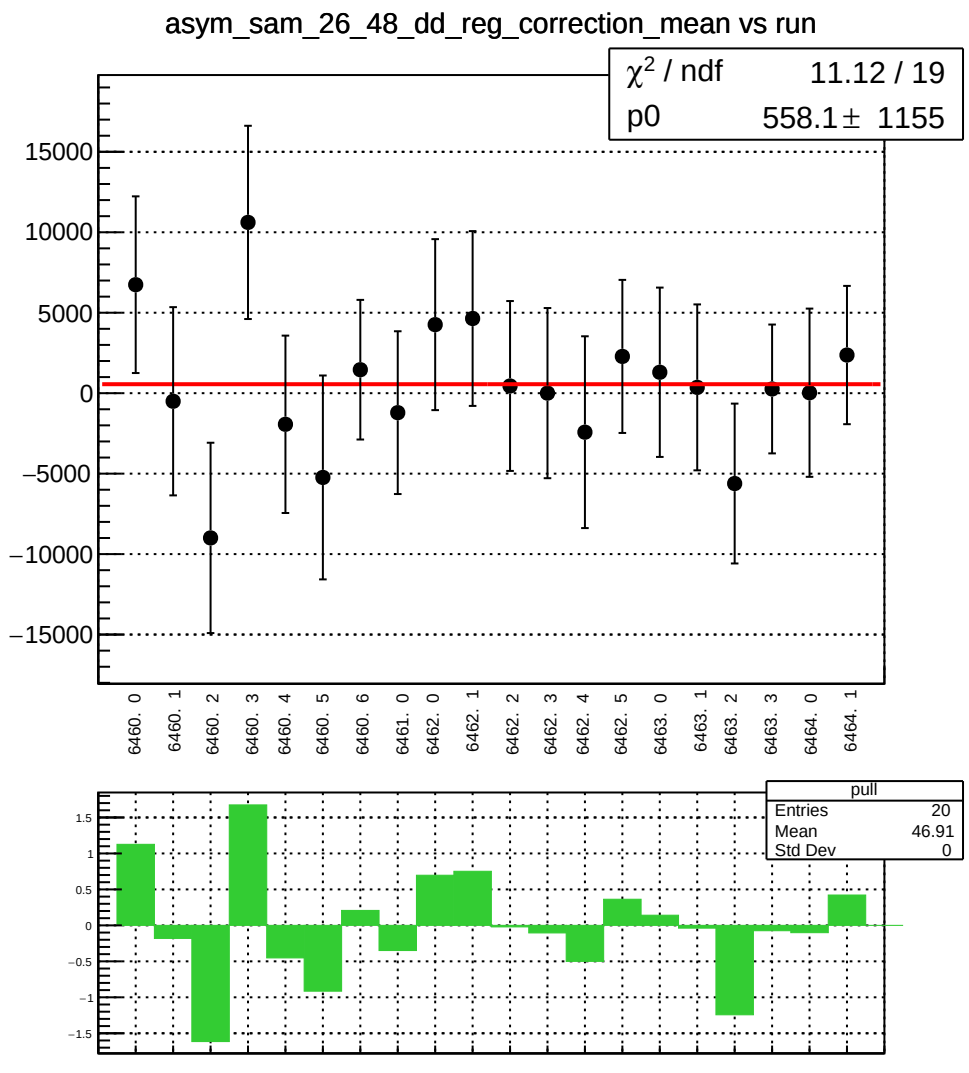

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 15.56 / 19
p0 2.32e−14 ± 3.113e−14
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10.09
Std Dev 0

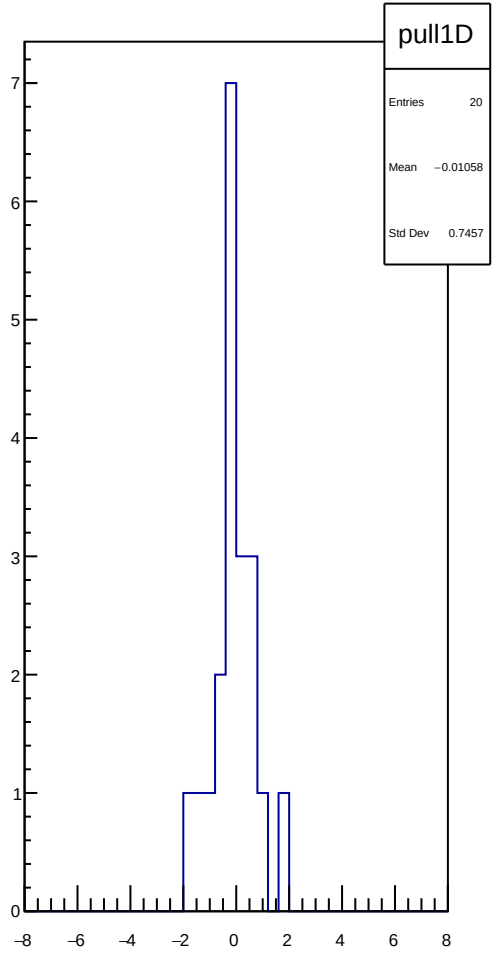

pull1D
Entries 20
Mean 0.118
Std Dev 0.874
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

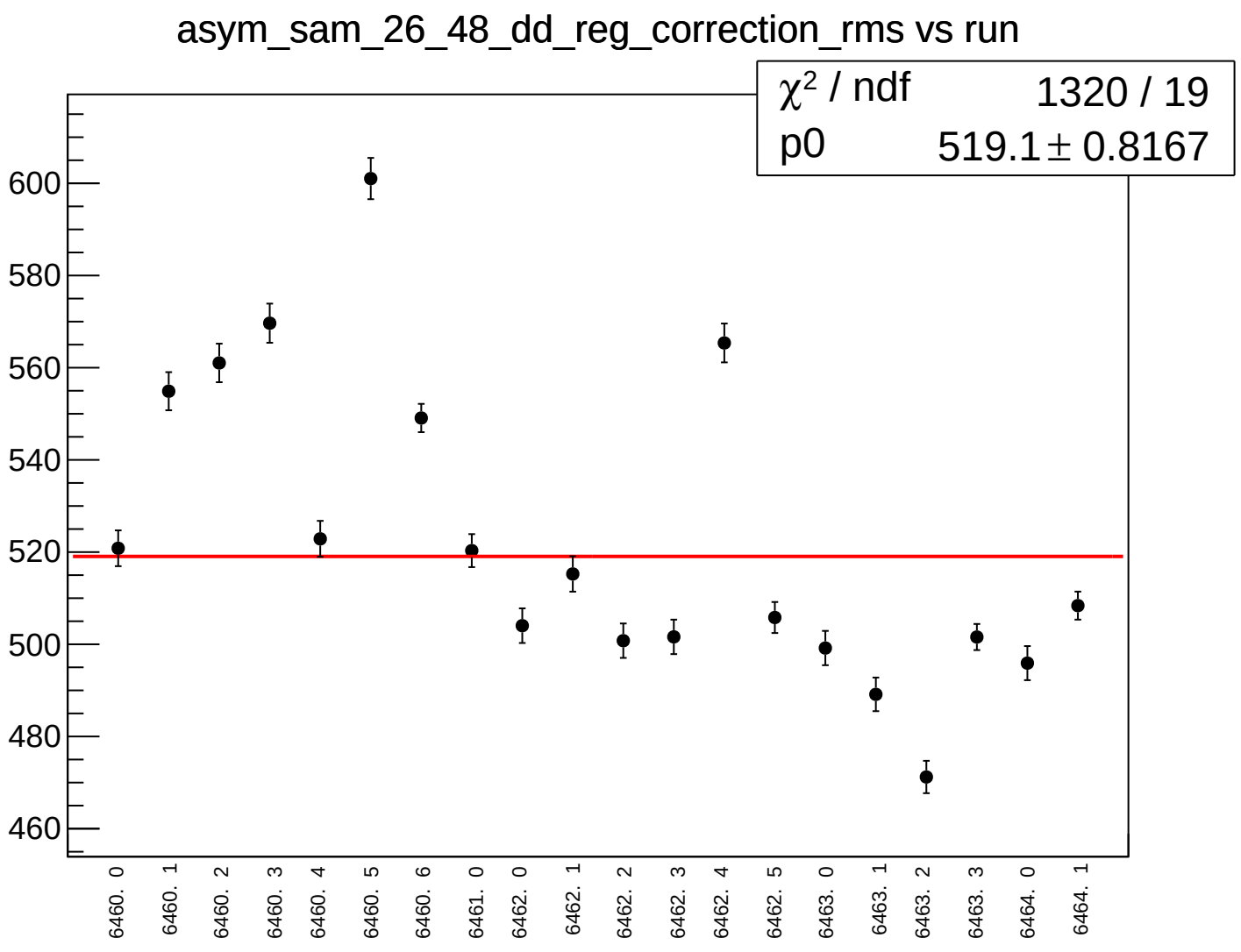

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.868e+05 / 19
p0 1.029e−11 ± 2.201e−14
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 15.33 / 19
p0 1.992 ± 174.3
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −328.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.005998
Std Dev 0.8756
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 194.2 / 19
p0 78.44 ± 0.1232
82
81
80
79
78
77
76
75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 11.12 / 19
p0 558.1 ± 1155
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean −0.01058
Std Dev 0.7457
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 1320 / 19
p0 519.1 ± 0.8167
600
580
560
540
520
500
480
460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6463. 2
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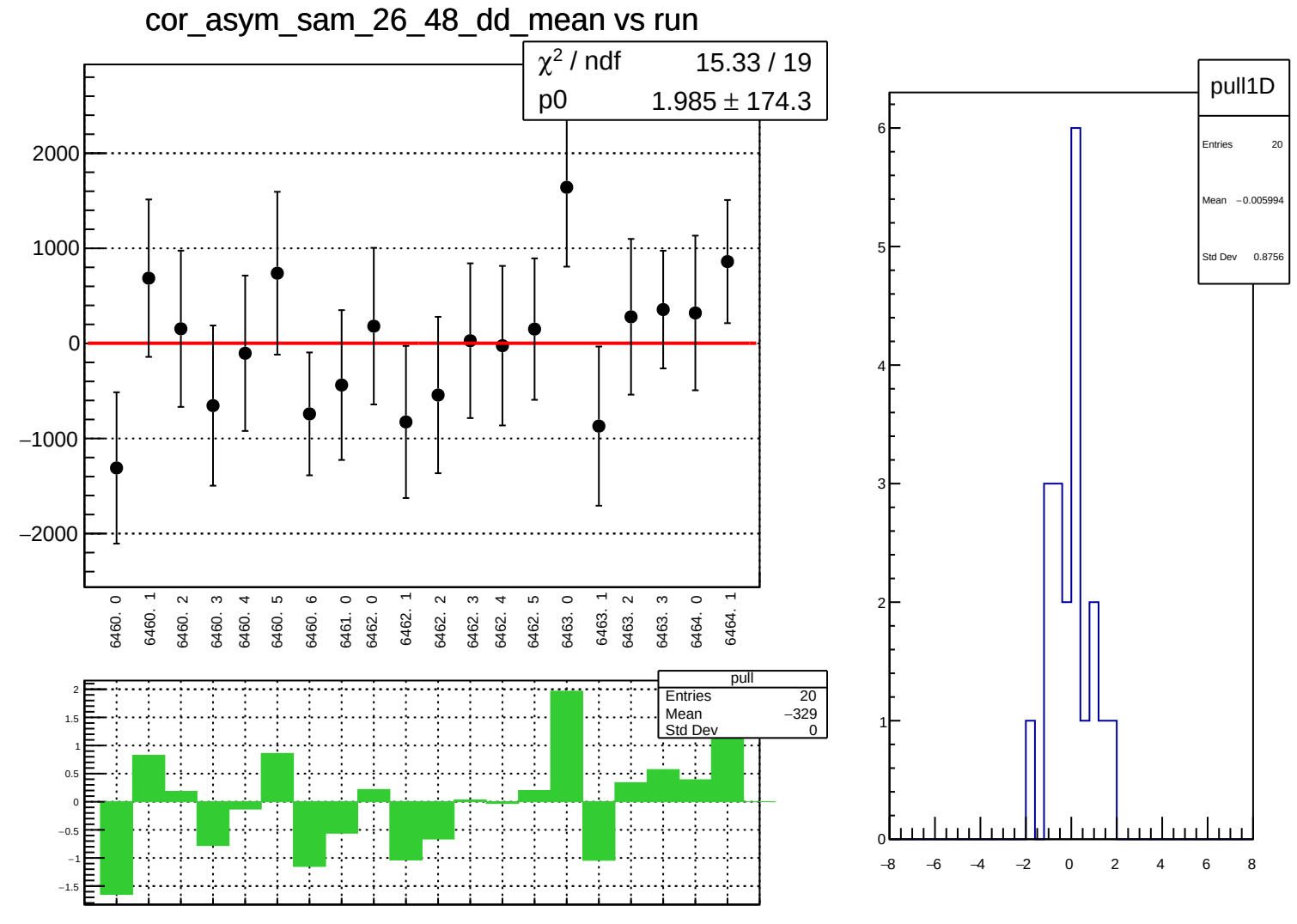
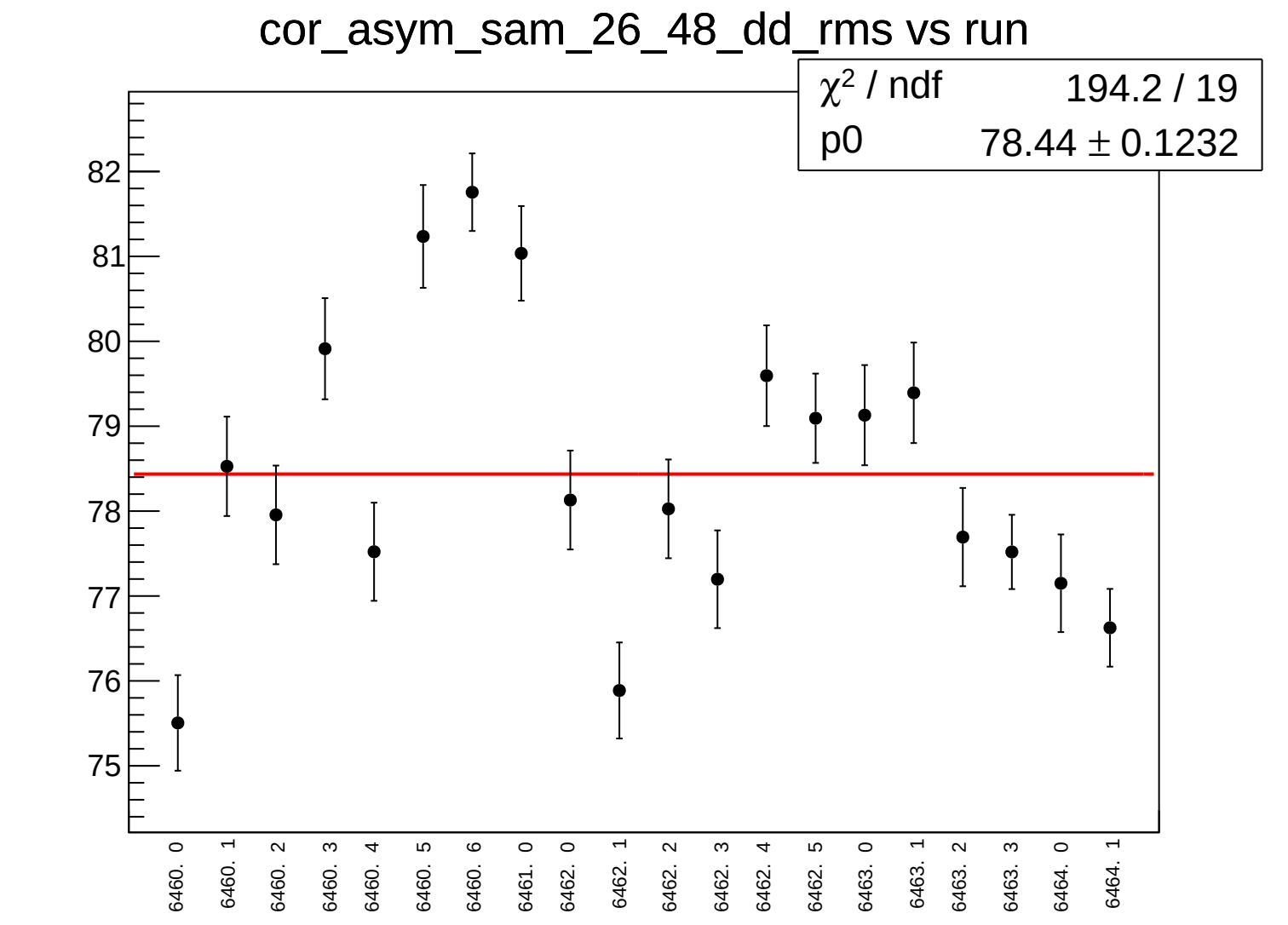
6464. 1


cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 15.33 / 19
p0 1.985 ± 174.3
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −329
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.005994
Std Dev 0.8756
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 194.2 / 19
p0 78.44 ± 0.1232
82
81
80
79
78
77
76
75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6463. 2
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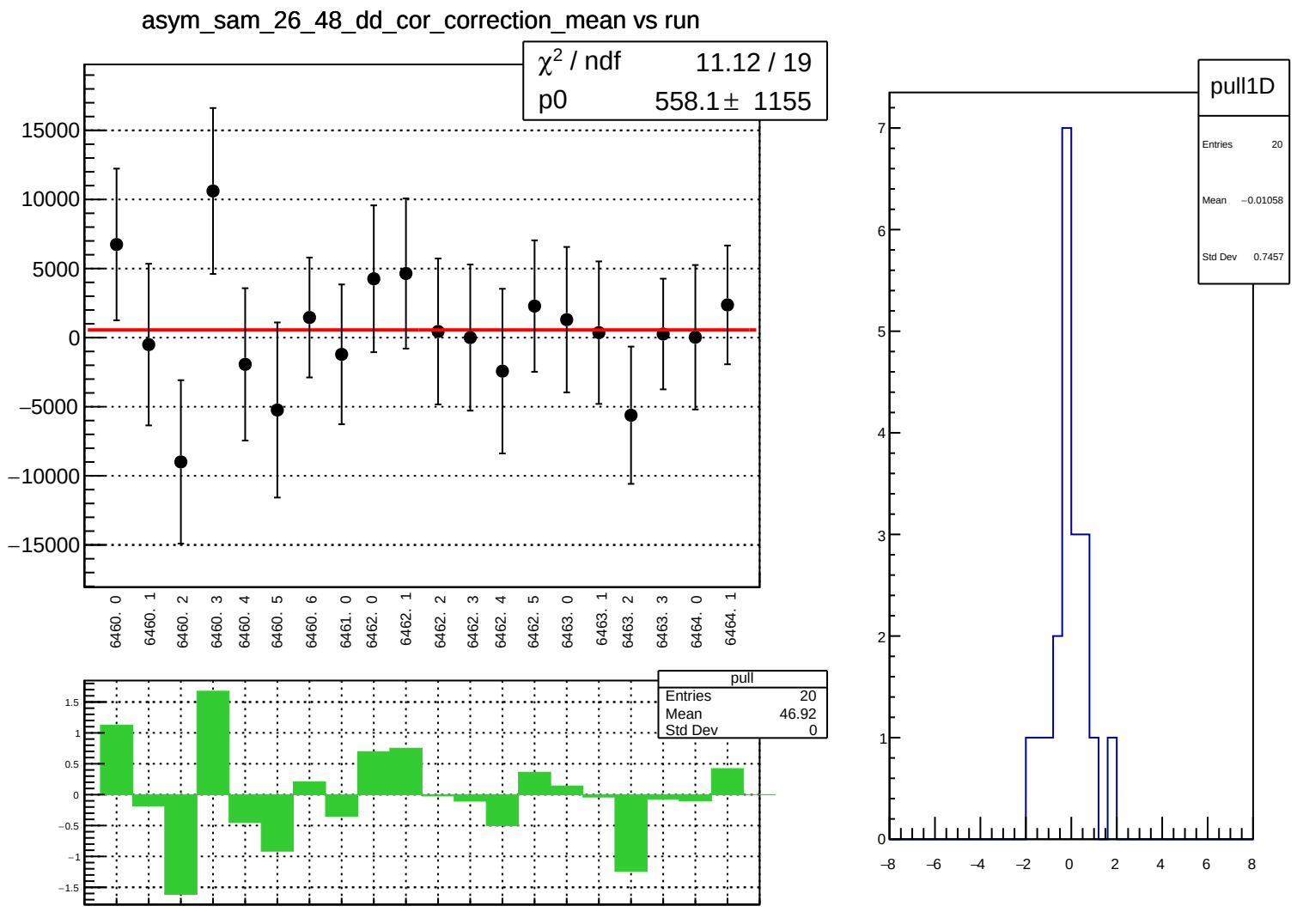
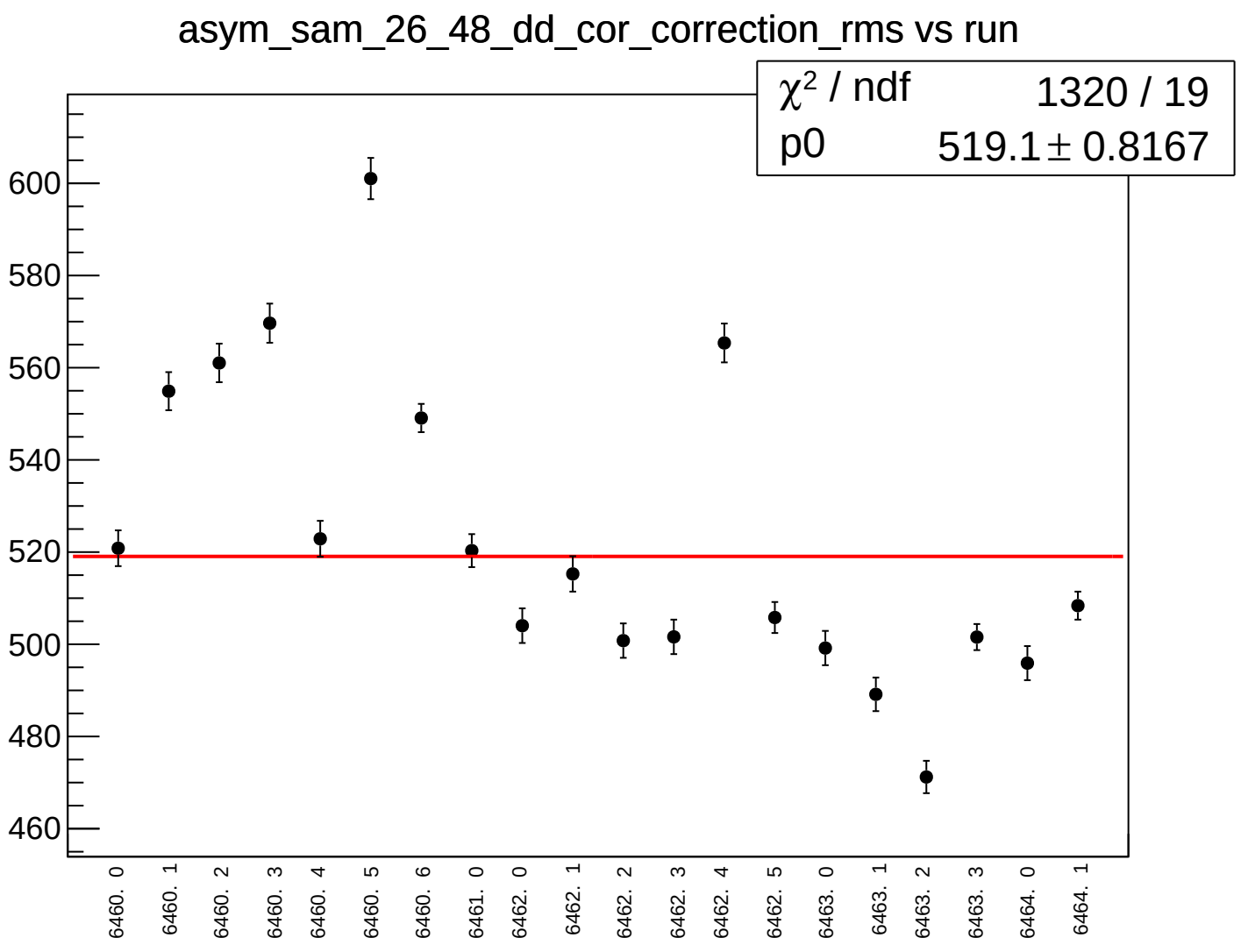
6464. 0
6464. 1


asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 11.12 / 19
p0 558.1 ± 1155
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01058
Std Dev 0.7457
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 1320 / 19
p0 519.1 ± 0.8167
600
580
560
540
520
500
480
460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 4
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6463. 2
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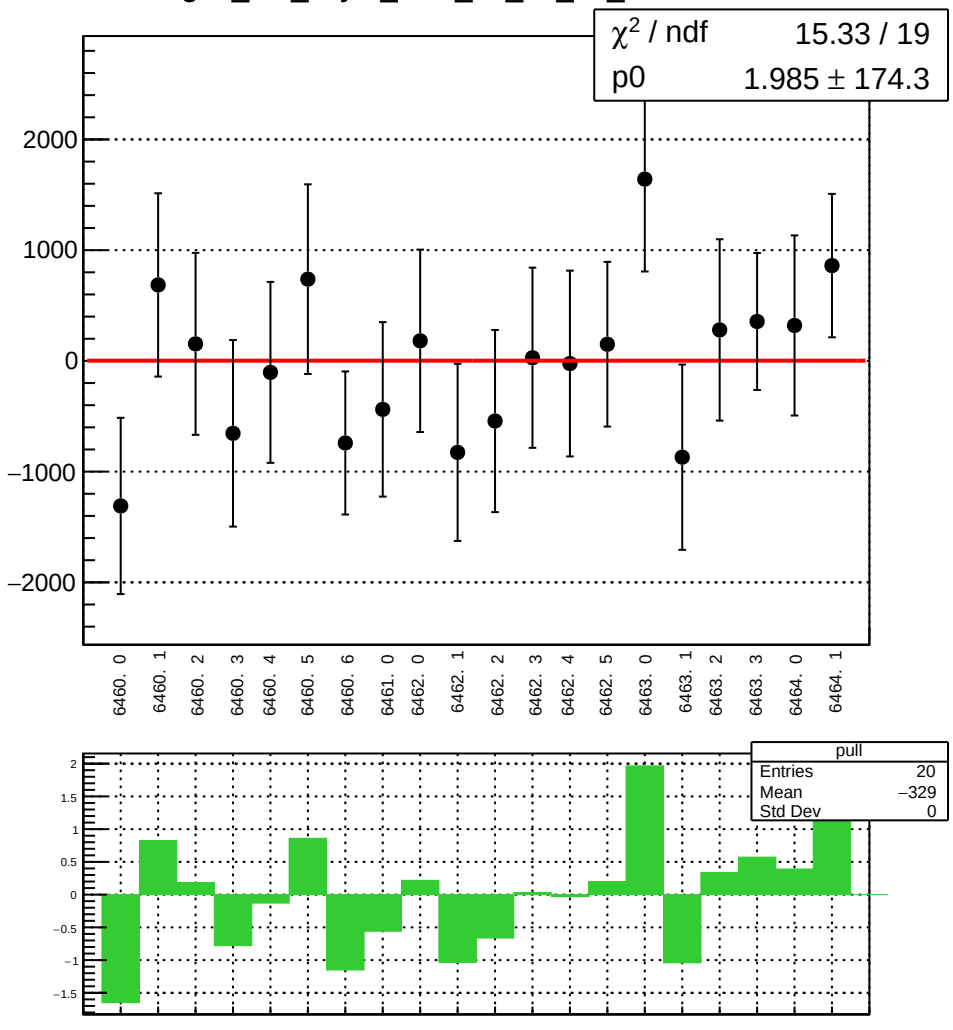
6464. 0
6464. 1


eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 15.33 / 19
p0 1.985 ± 174.3
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −329
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.005994
Std Dev 0.8756
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5
4
3
2
1
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−8
−6
−4
−2
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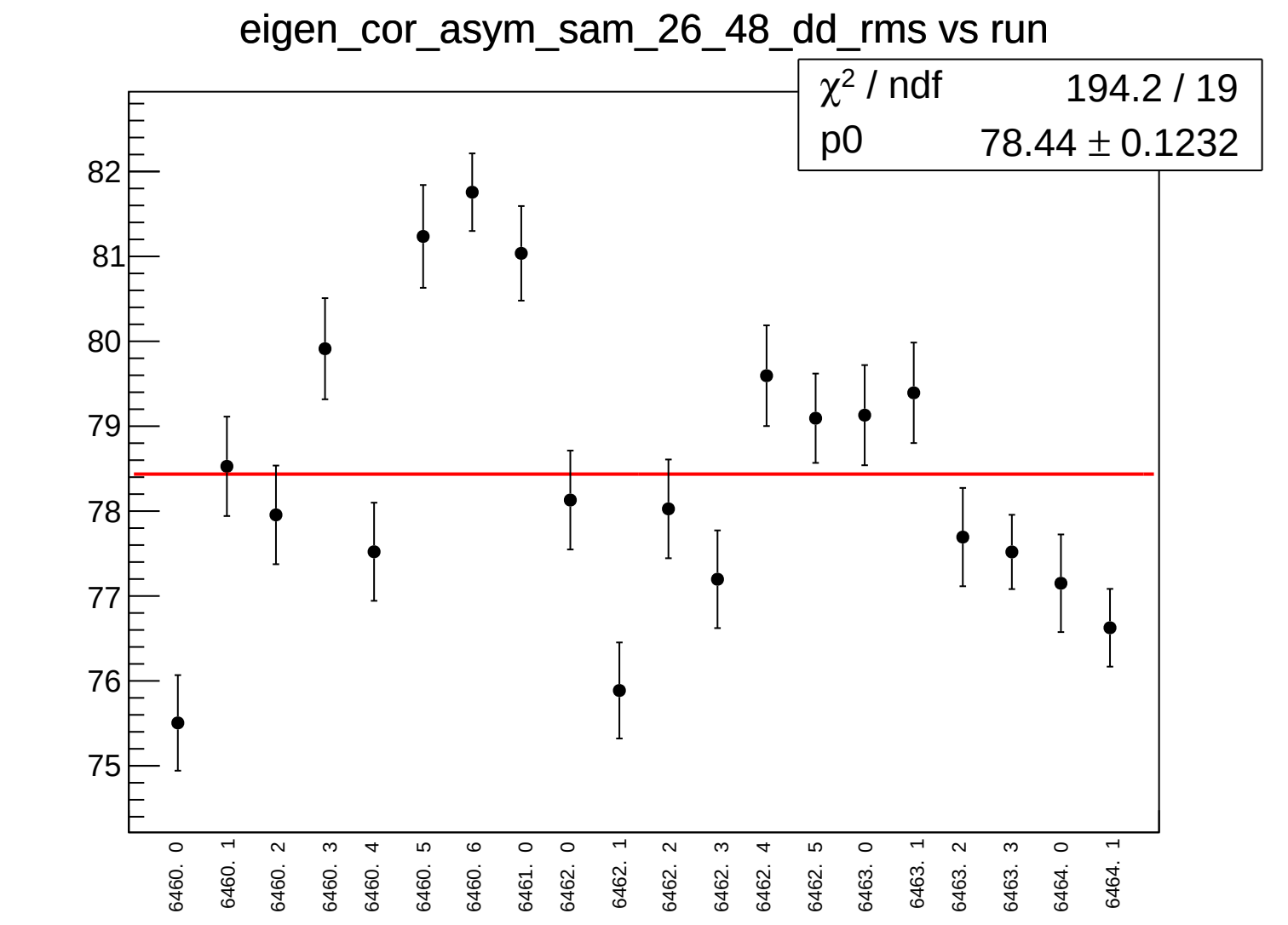
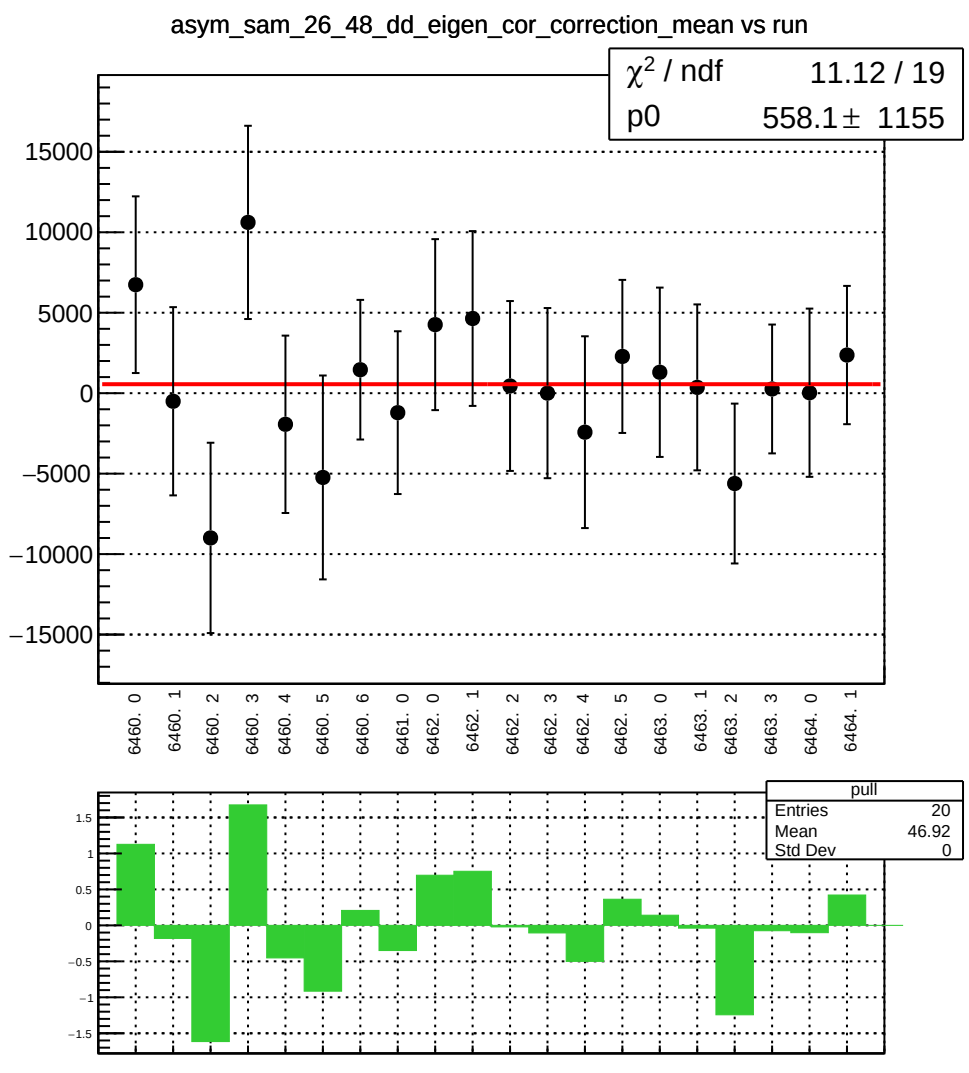
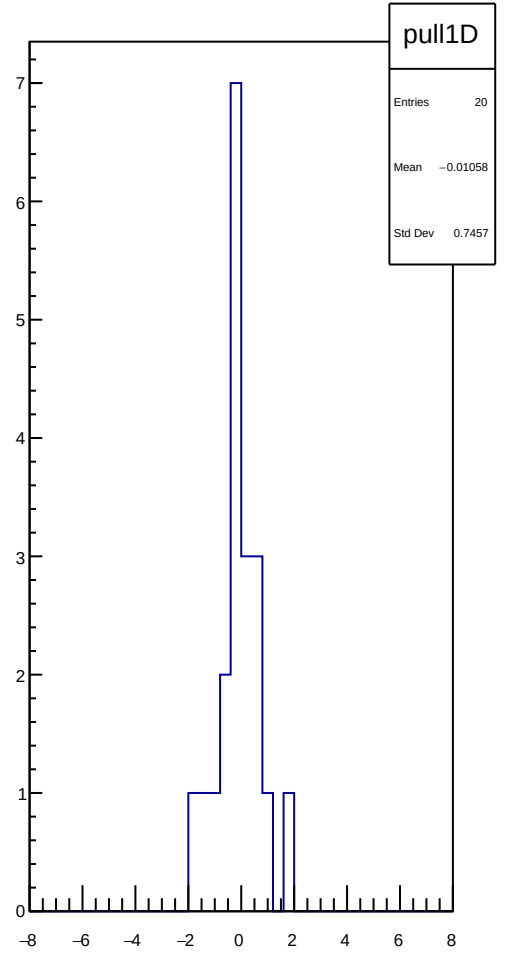
2
4
6
8


eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 194.2 / 19
p0 78.44 ± 0.1232
82
81
80
79
78
77
76
75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 11.12 / 19
p0 558.1 ± 1155
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean −0.01058
Std Dev 0.7457
7
6
5
4
3
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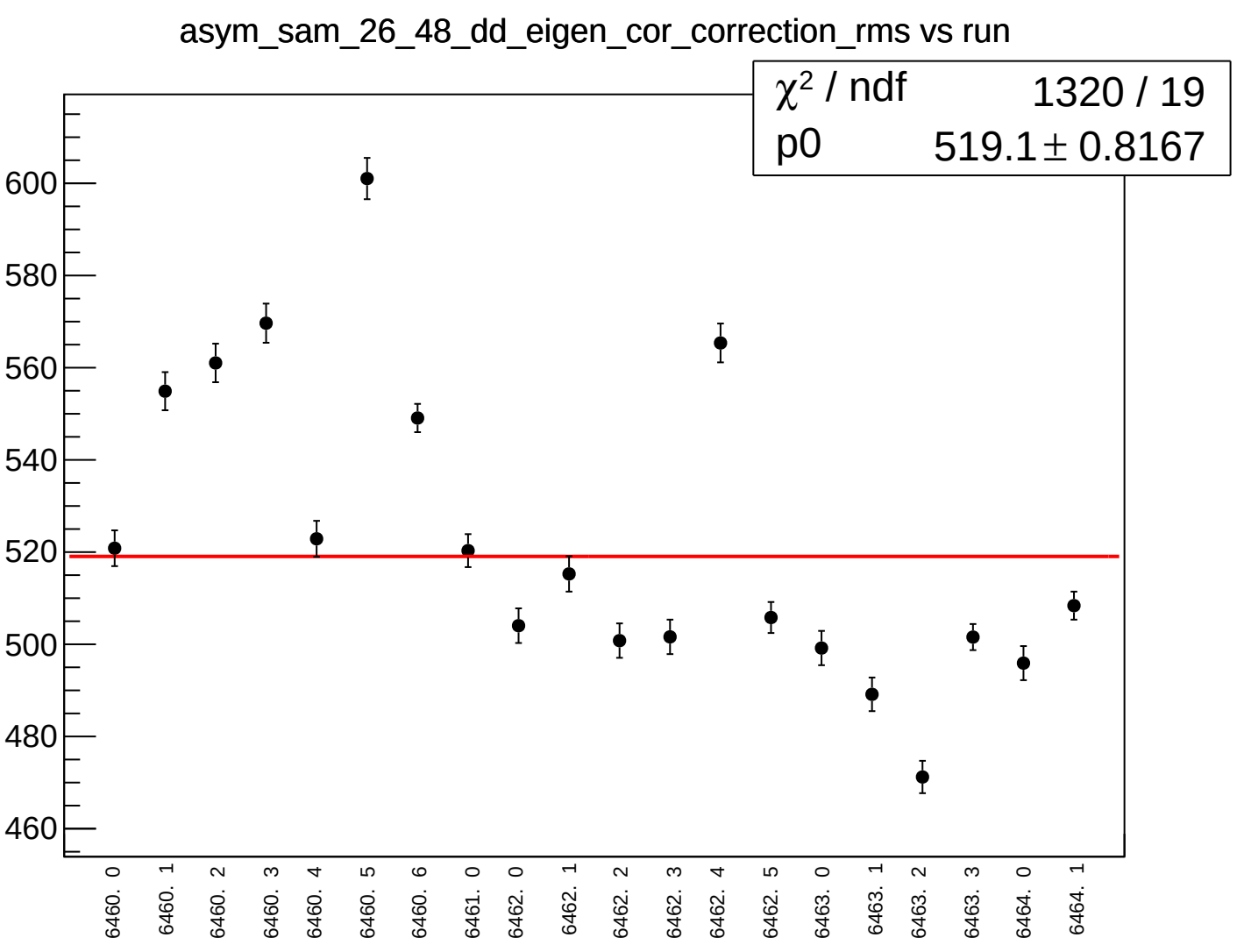
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1320 / 19
p0 519.1 ± 0.8167
600
580
560
540
520
500
480
460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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6462. 4
6462. 5
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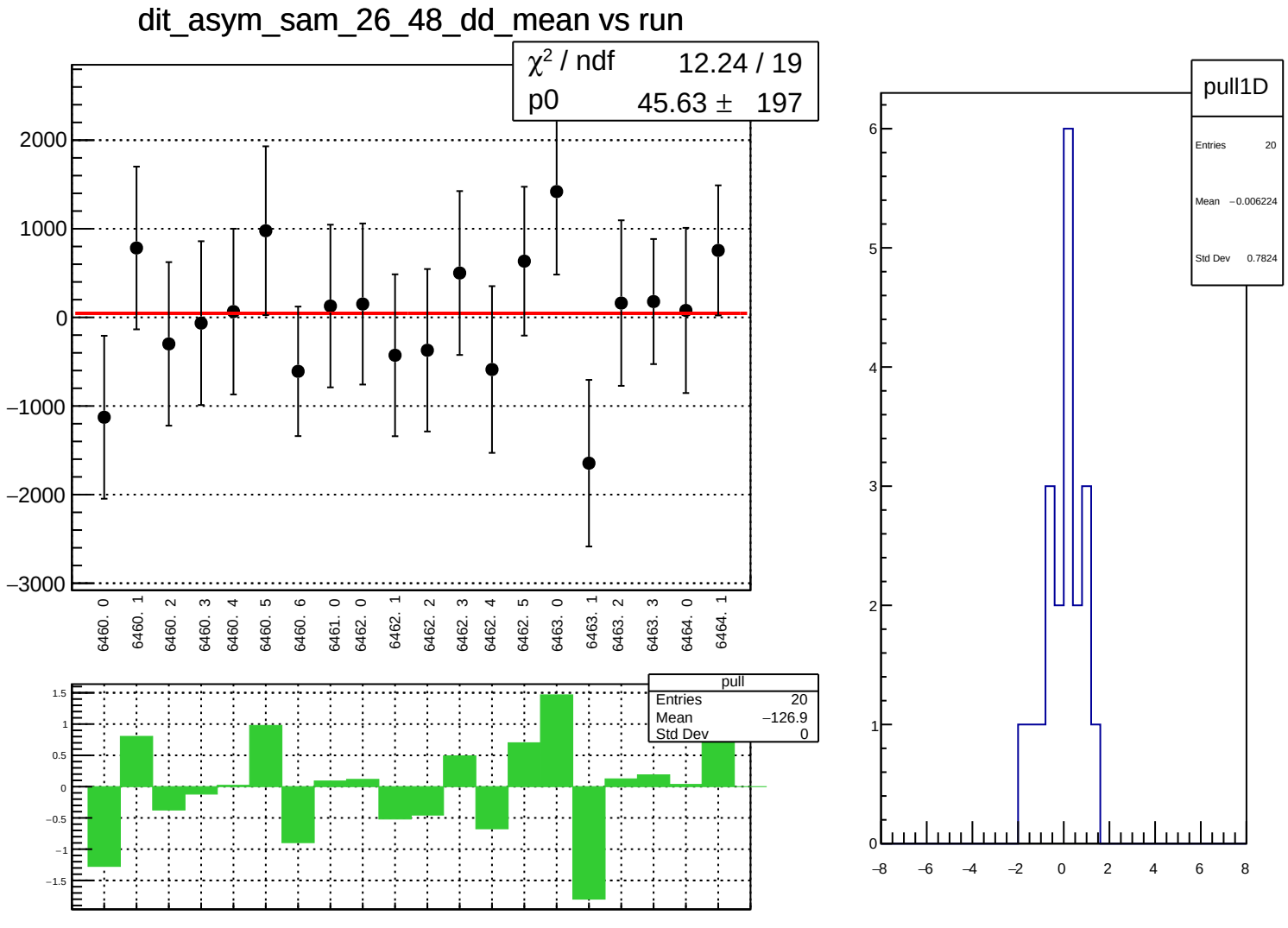
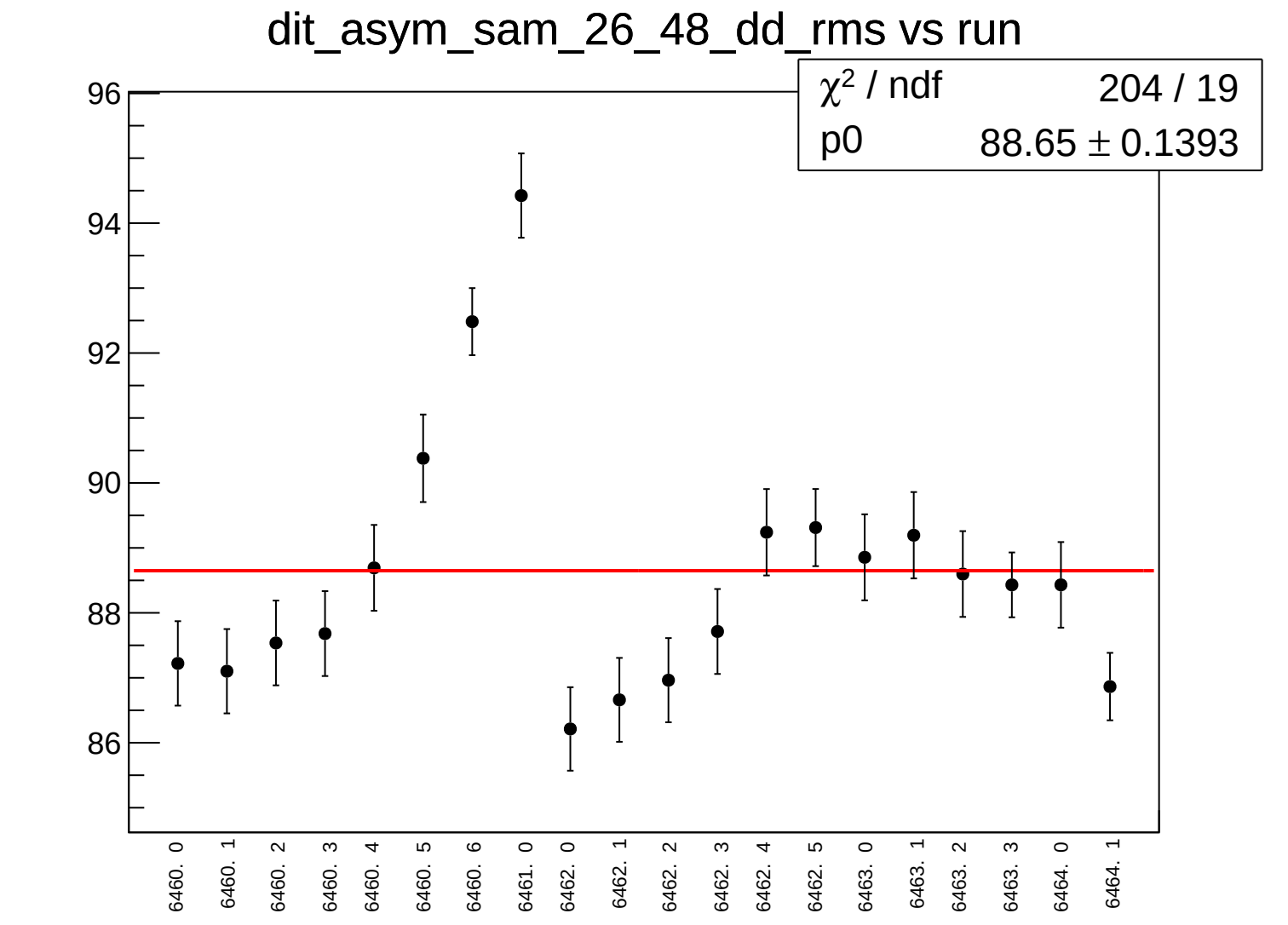
6463. 2
6463. 3
6464. 0
6464. 1


dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 12.24 / 19
p0 45.63 ± 197
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −126.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.006224
Std Dev 0.7824
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 204 / 19
p0 88.65 ± 0.1393
96
94
92
90
88
86
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
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6463. 0
6463. 1
6463. 2
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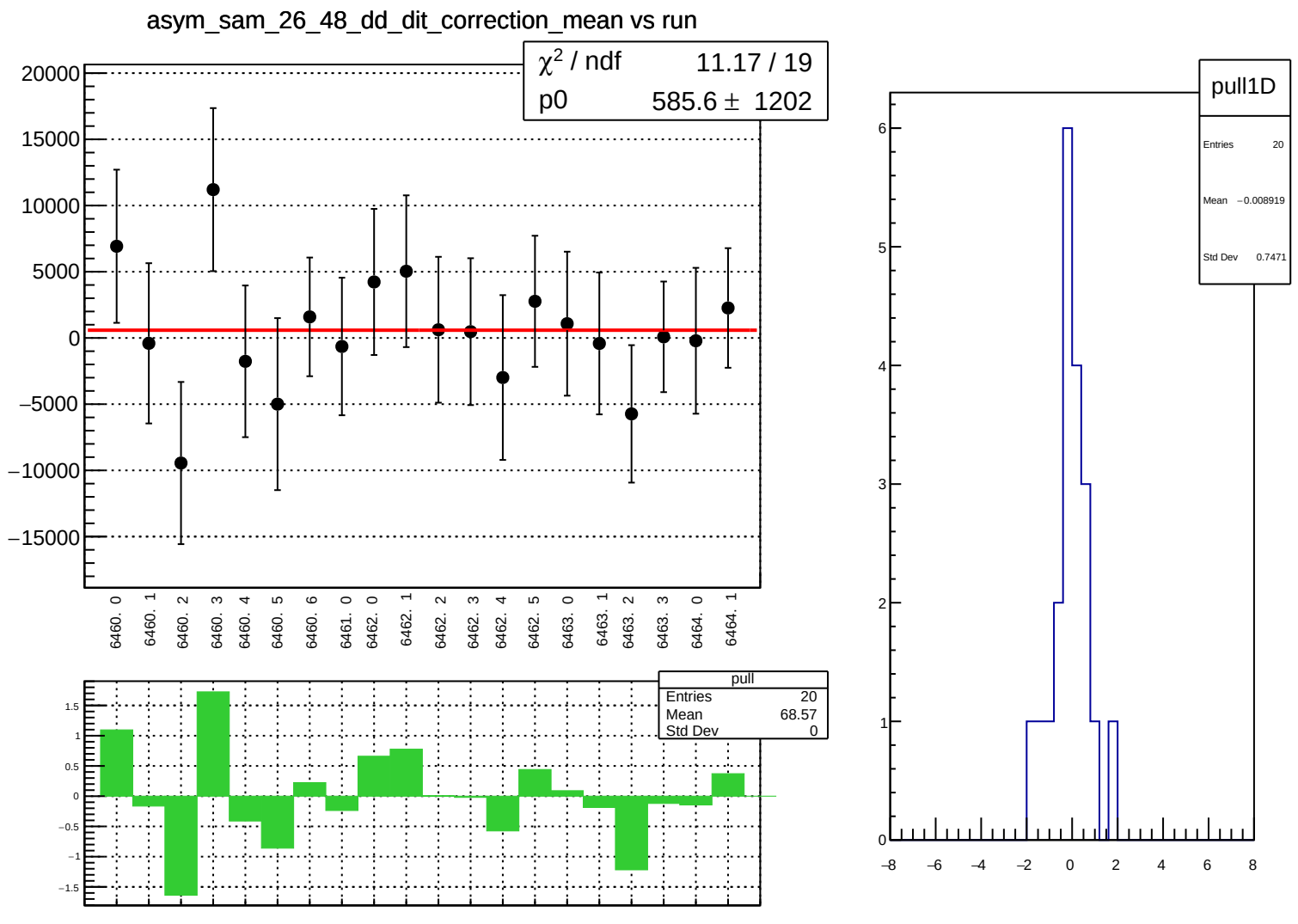
6464. 0
6464. 1


asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 11.17 / 19
p0 585.6 ± 1202
20000
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 68.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.008919
Std Dev 0.7471
6
5
4
3
2
1
0
−8
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−4
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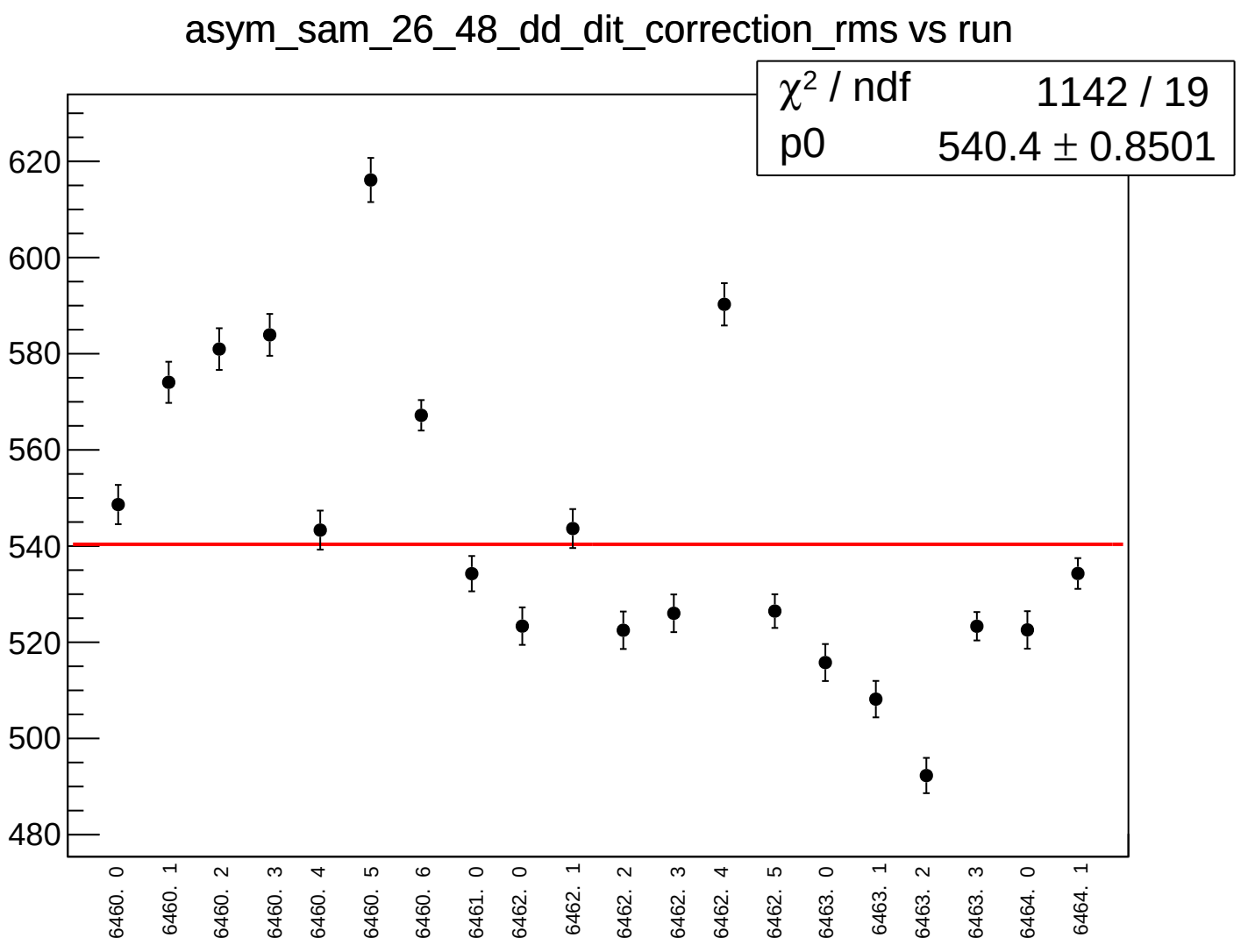
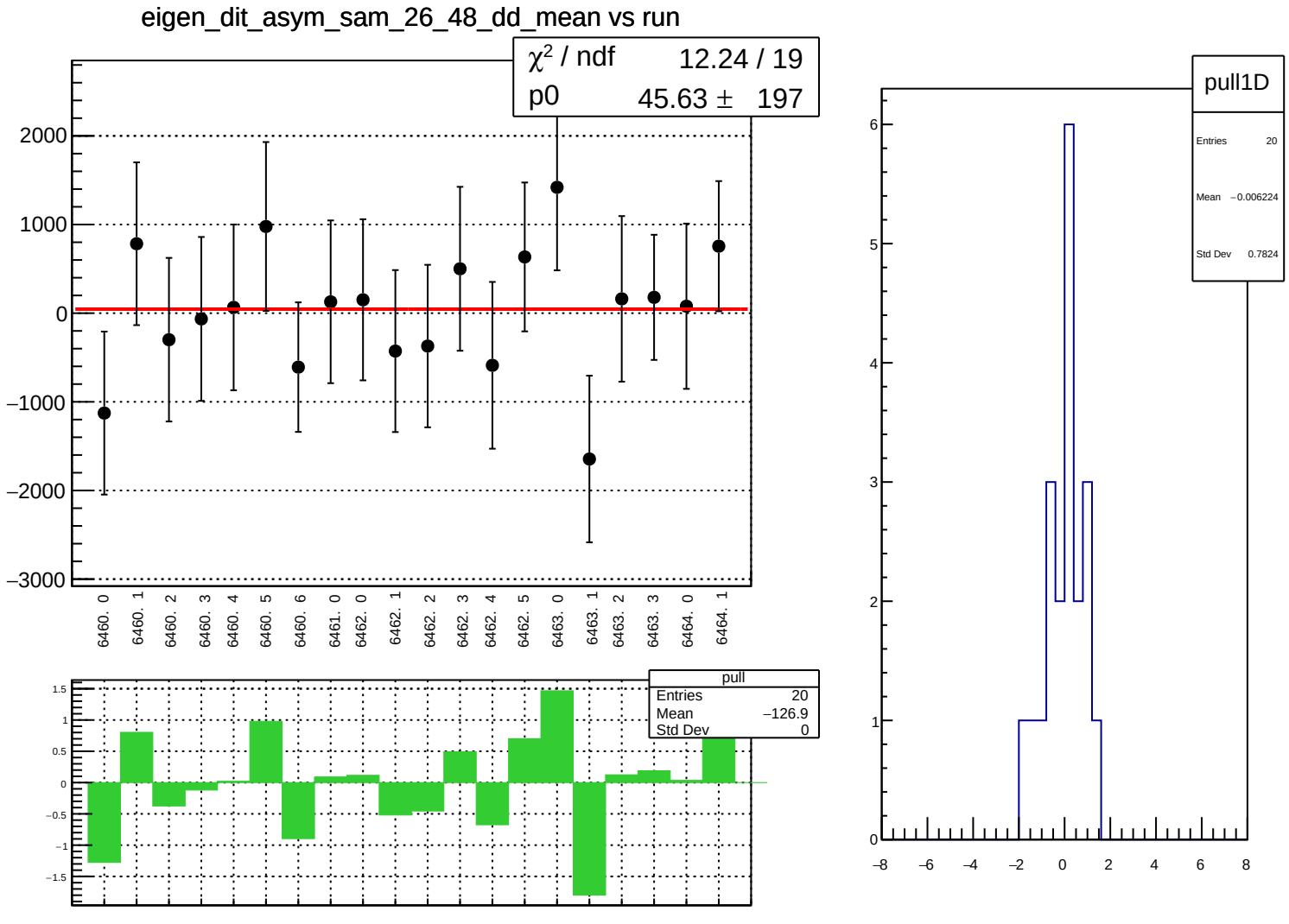
0
2
4
6
8


asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1142 / 19
p0 540.4 ± 0.8501
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 12.24 / 19
p0 45.63 ± 197
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −126.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.006224
Std Dev 0.7824
6
5
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3
2
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0
−8
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−4
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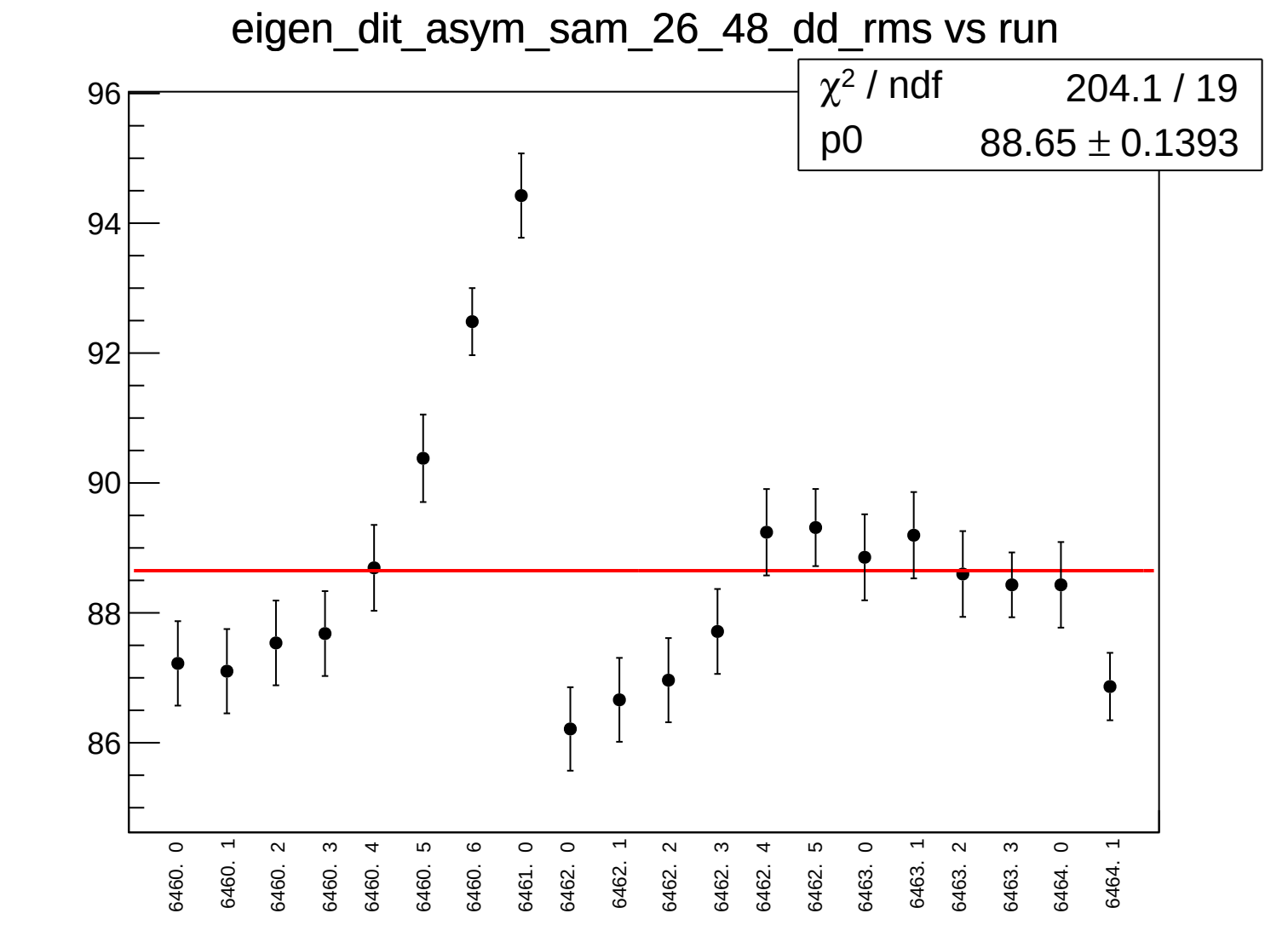
0
2
4
6
8


eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 204.1 / 19
p0 88.65 ± 0.1393
96
94
92
90
88
86
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
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6462. 5
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6463. 2
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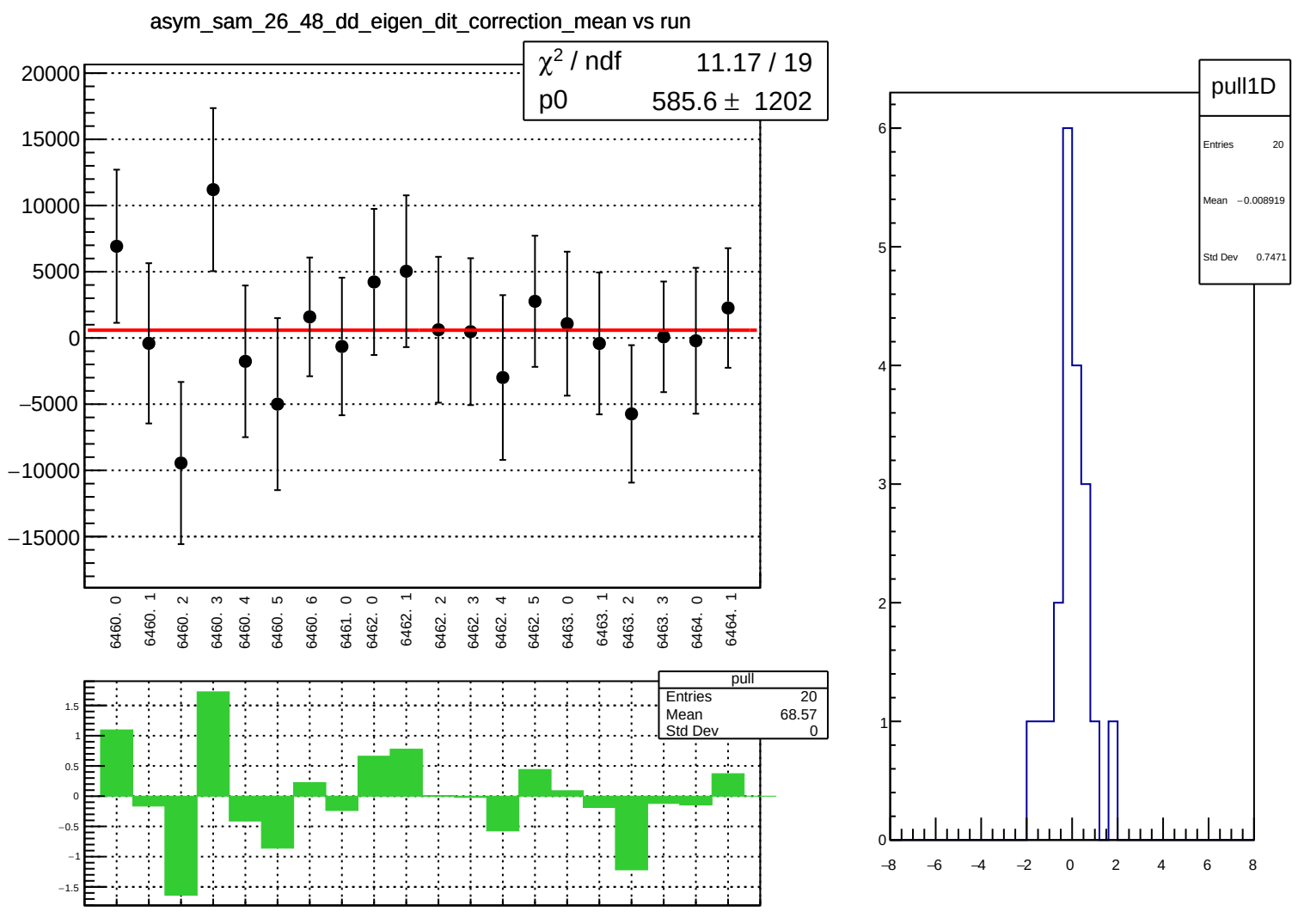
6464. 1


asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 11.17 / 19
p0 585.6 ± 1202
20000
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 68.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.008919
Std Dev 0.7471
6
5
4
3
2
1
0
−8
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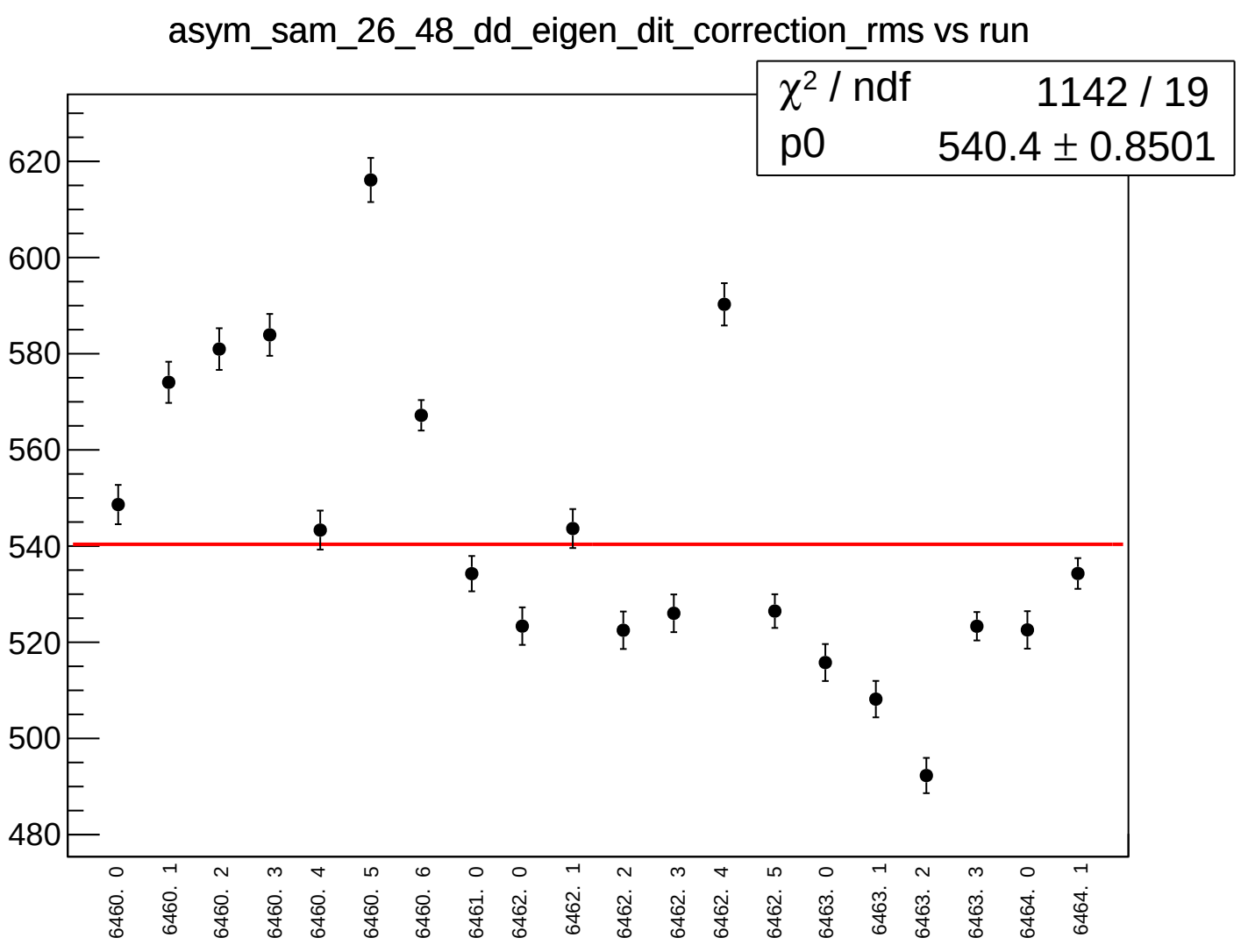
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1142 / 19
p0 540.4 ± 0.8501
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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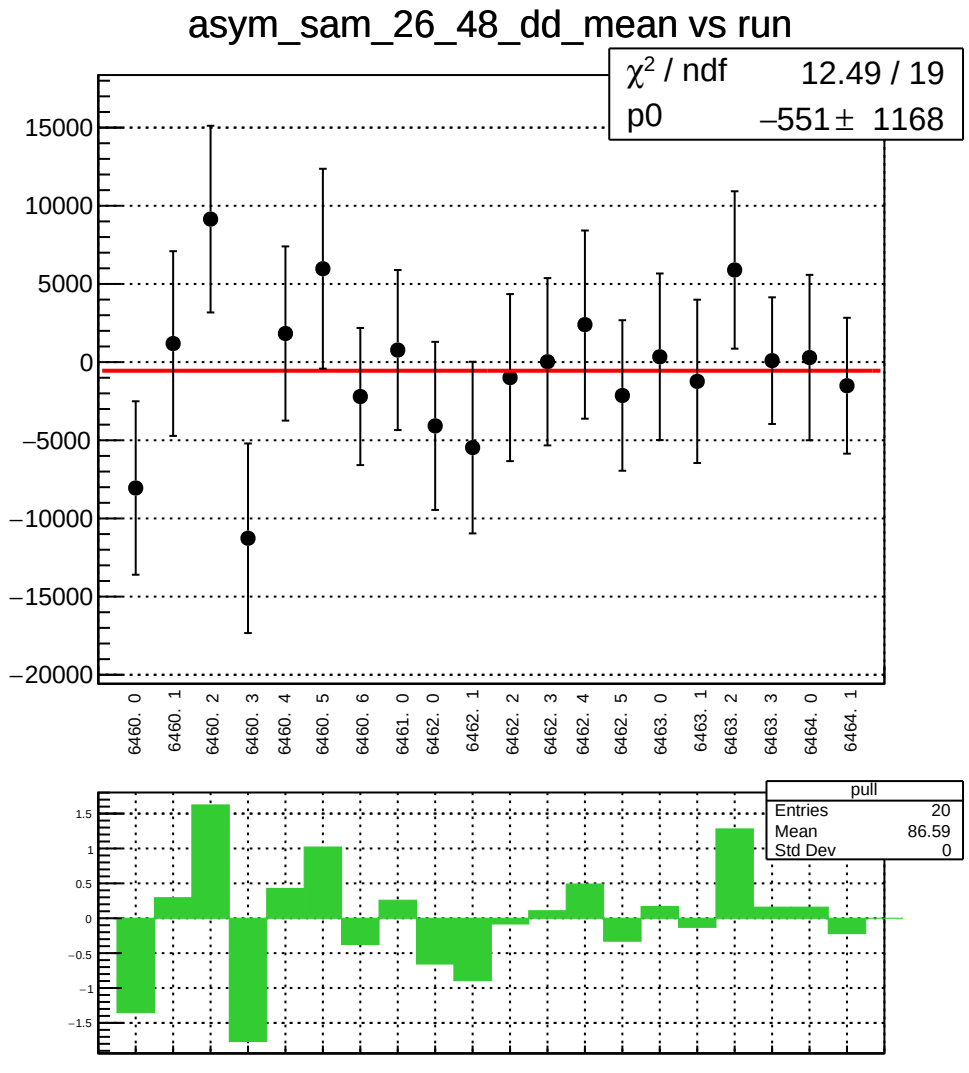
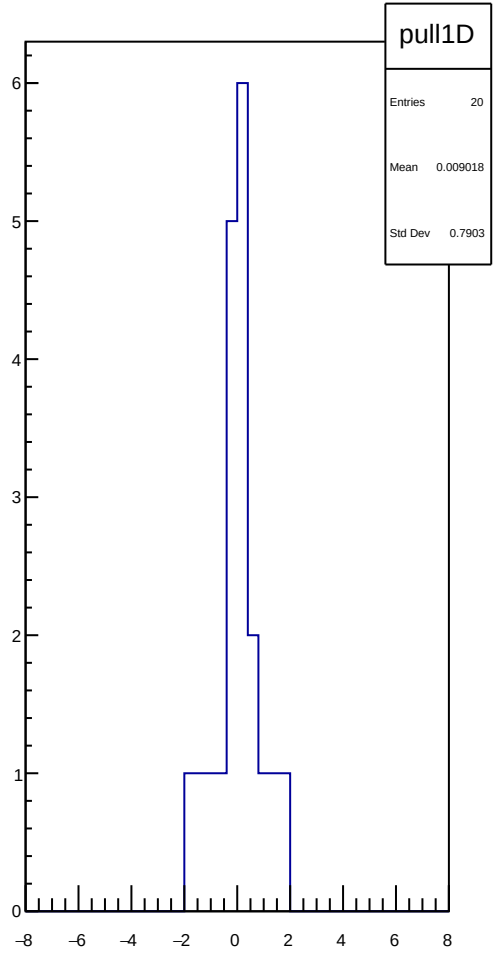

asym_sam_26_48_dd_mean vs run
χ² / ndf 12.49 / 19
p0 −551 ± 1168
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 20
Mean 0.009018
Std Dev 0.7903
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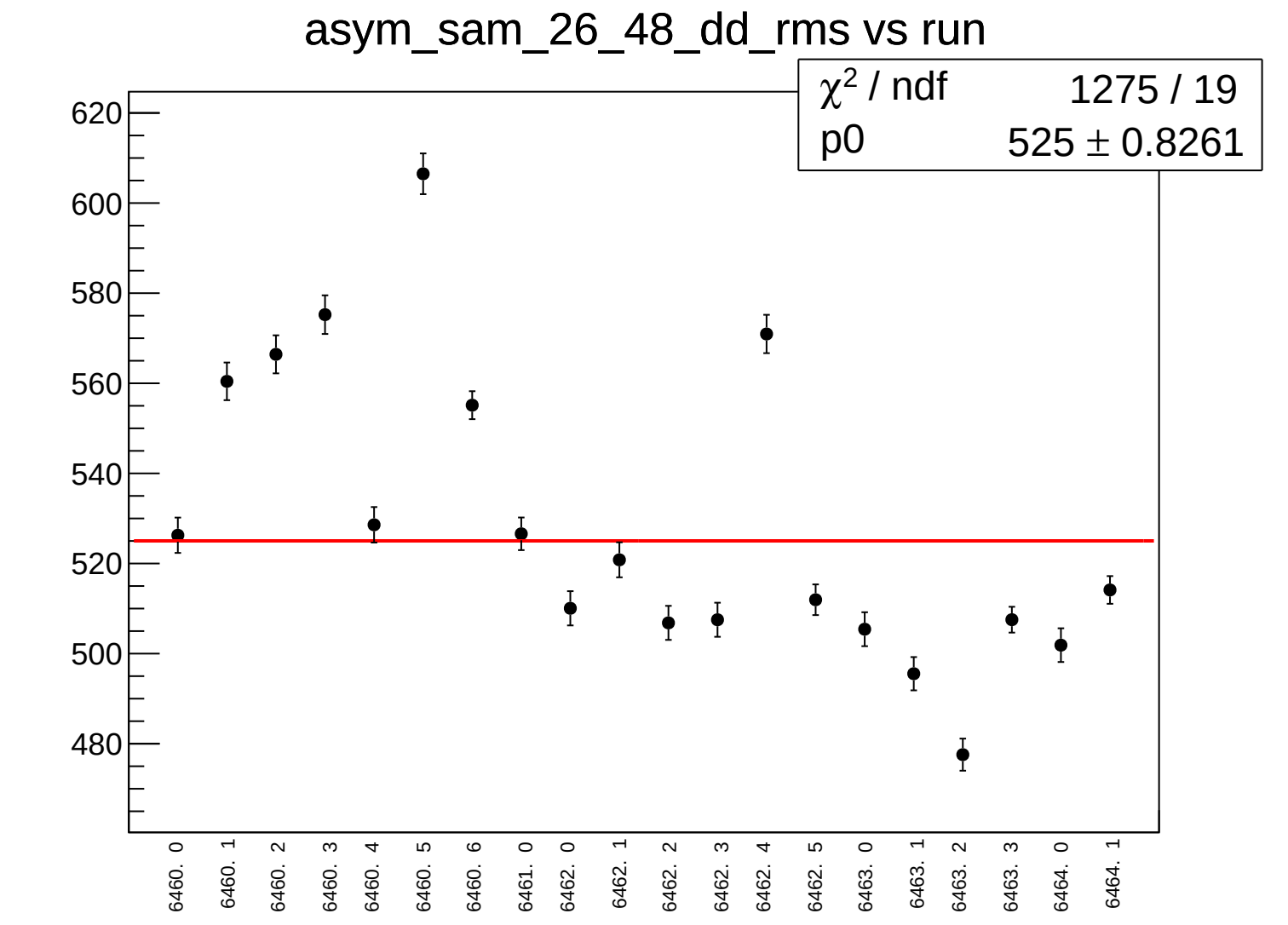
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_rms vs run
χ² / ndf 1275 / 19
p0 525 ± 0.8261
620
600
580
560
540
520
500
480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
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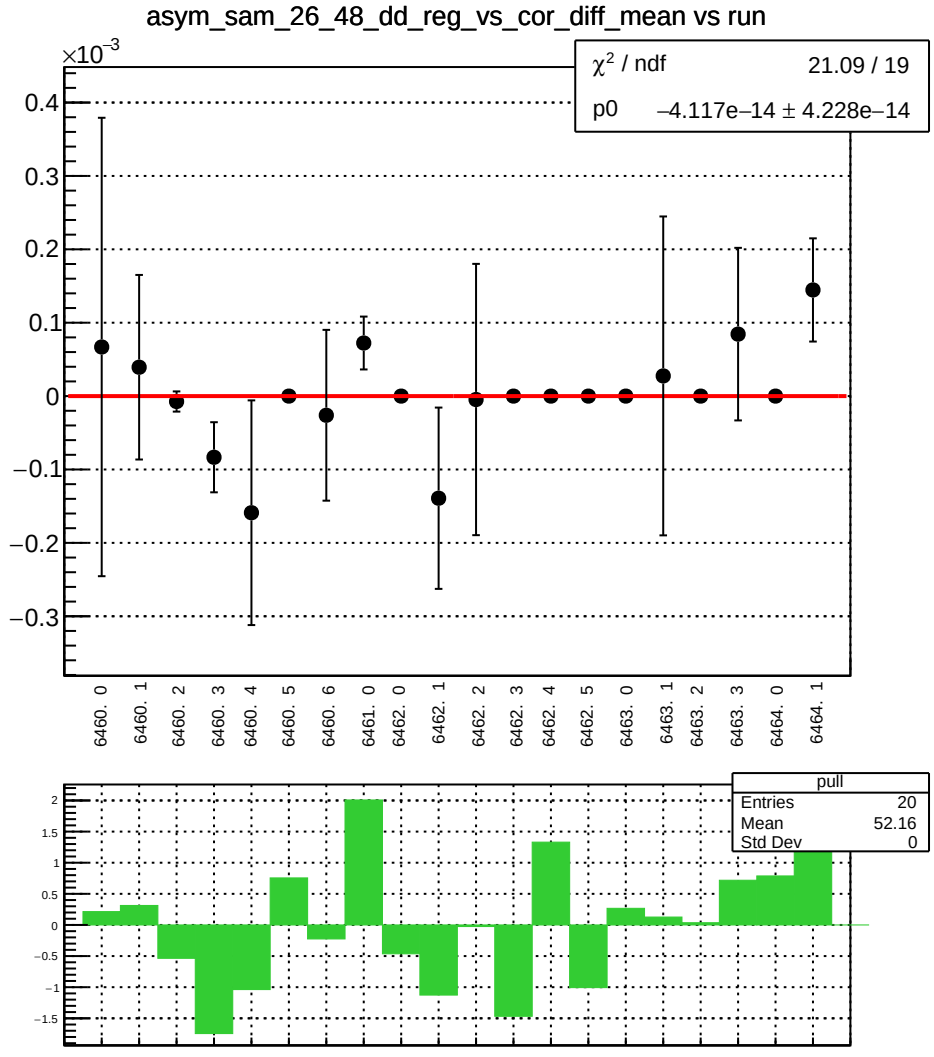
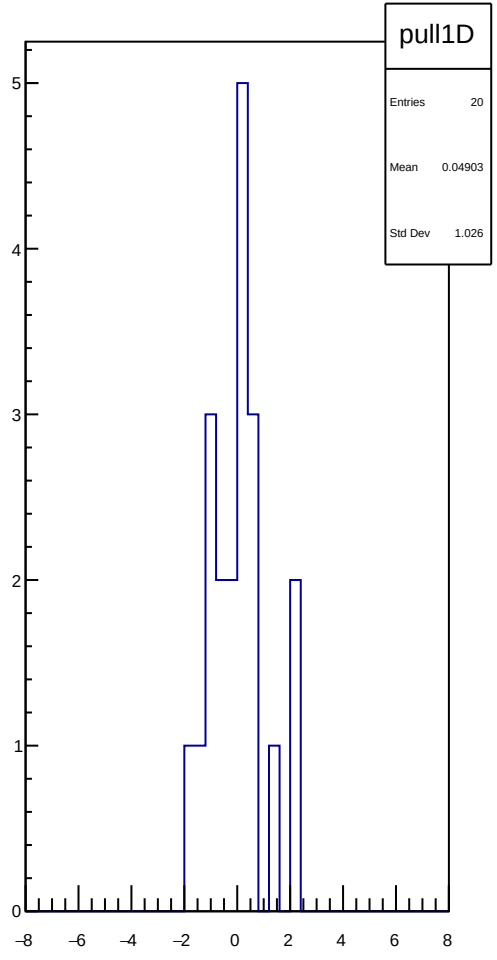
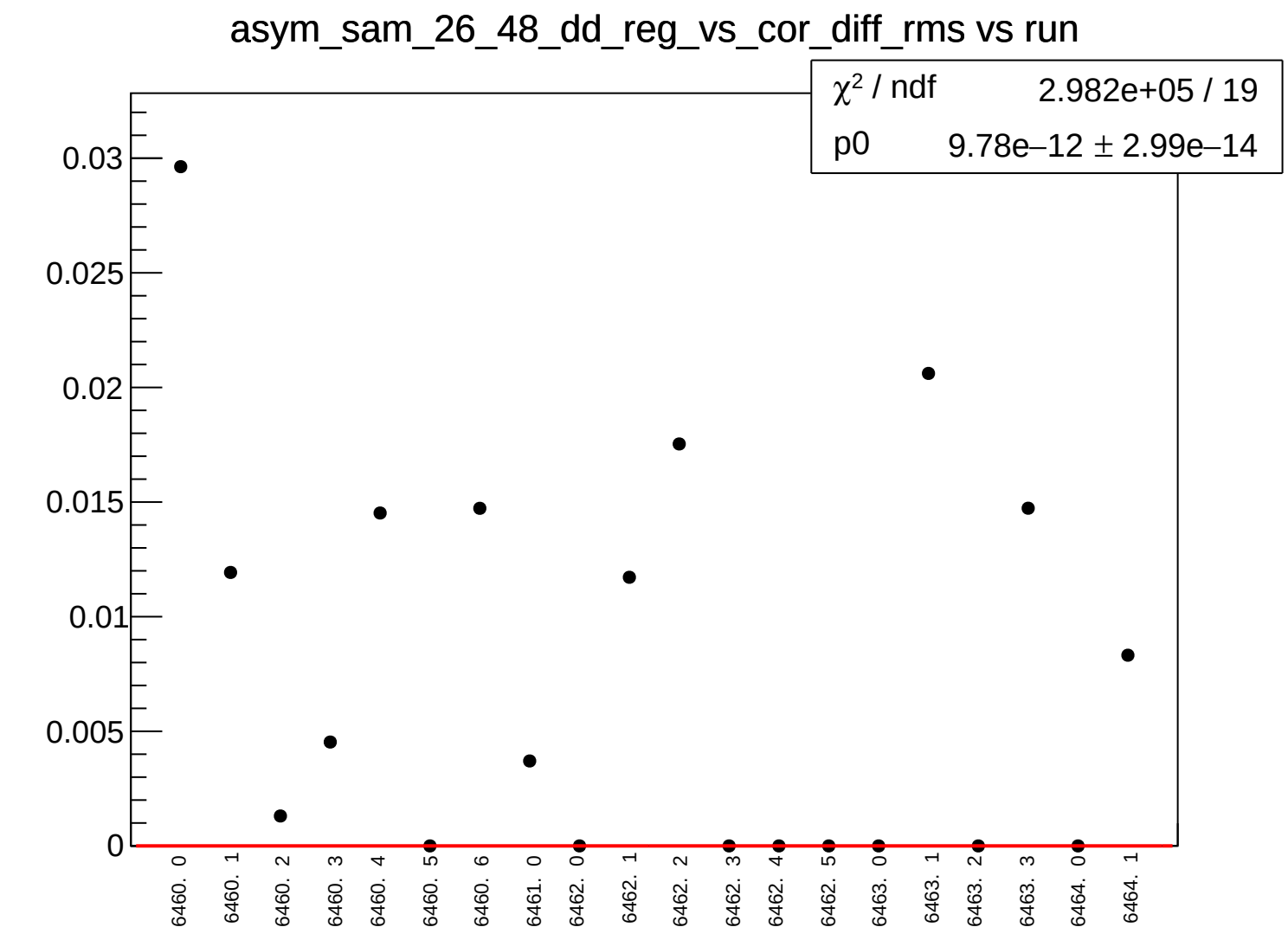
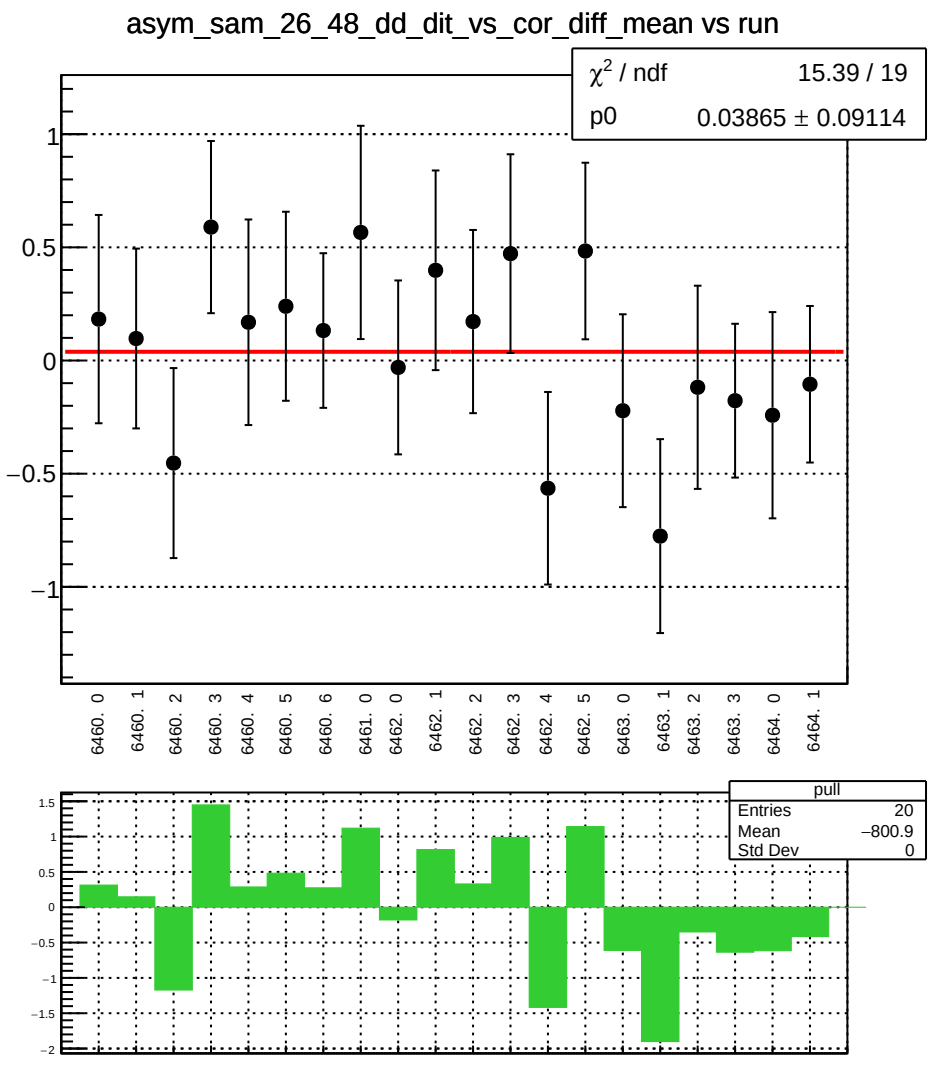
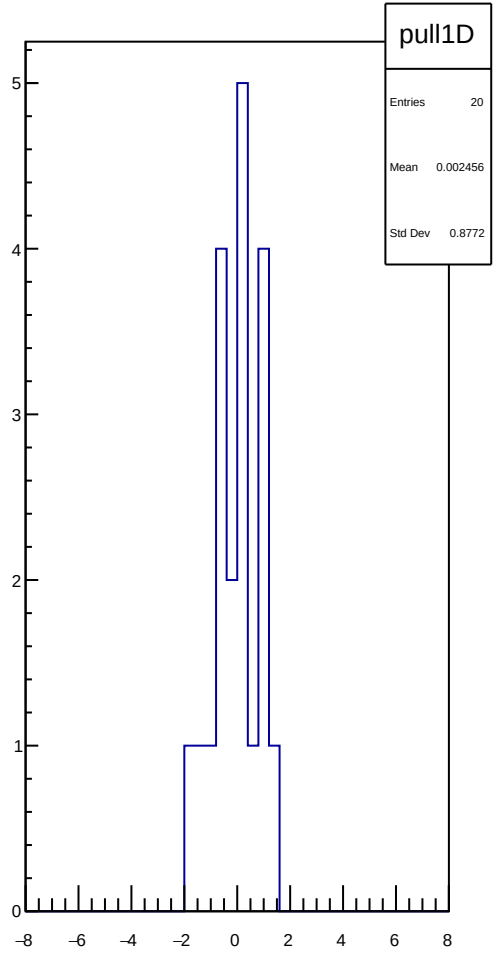
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

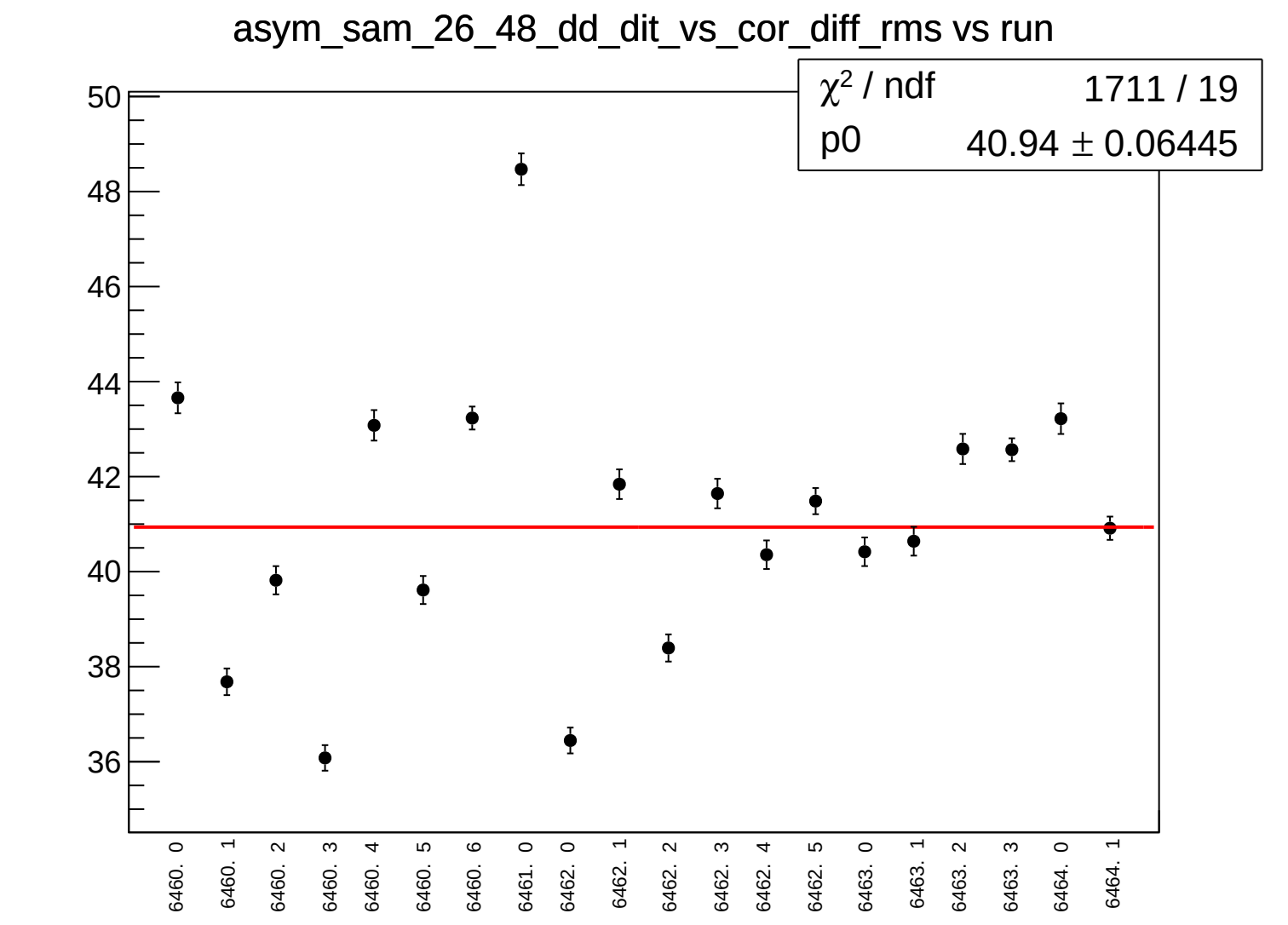

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 21.09 / 19
p0 −4.117e−14 ± 4.228e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 52.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

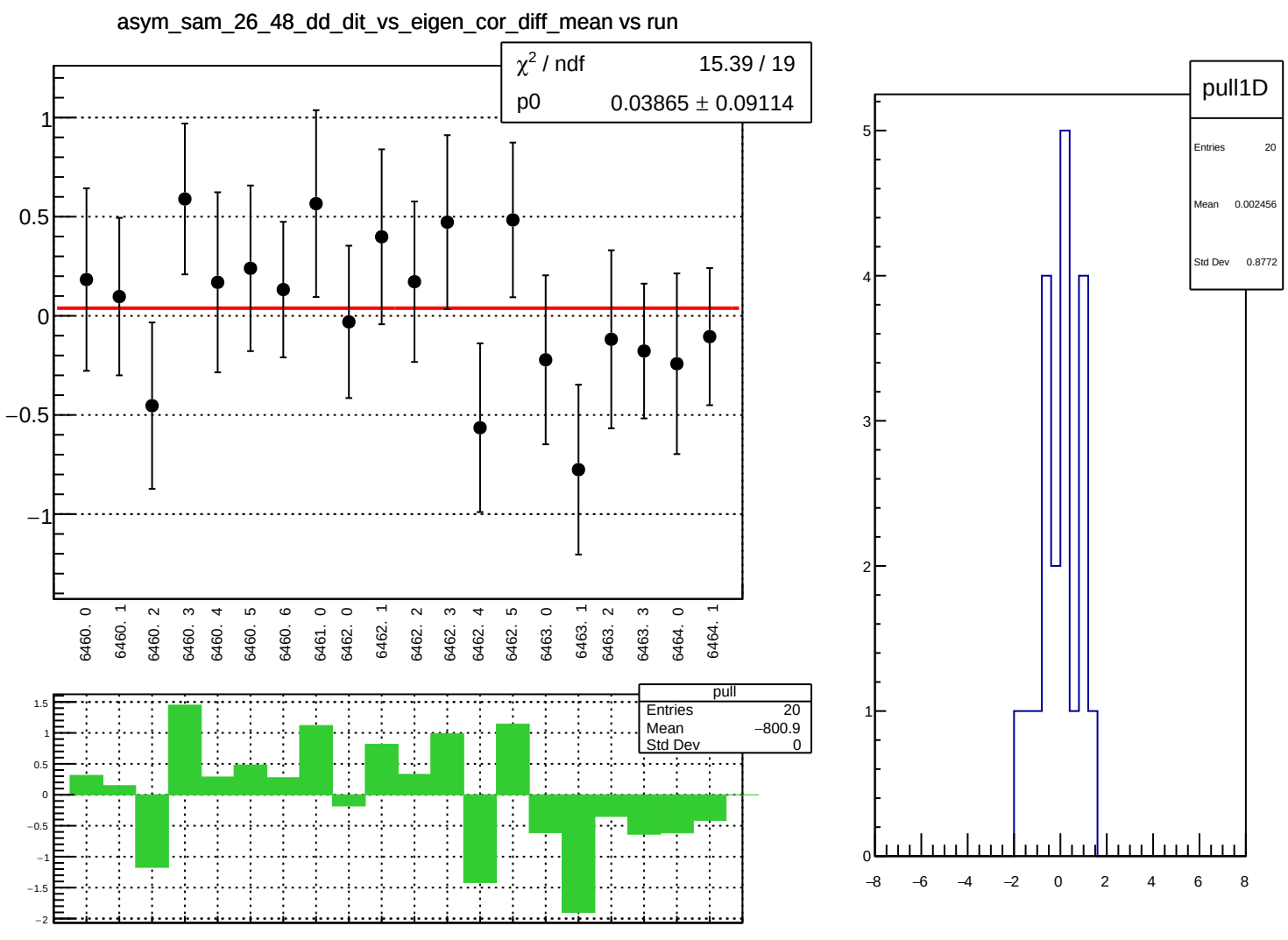

pull1D
Entries 20
Mean 0.04903
Std Dev 1.026
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

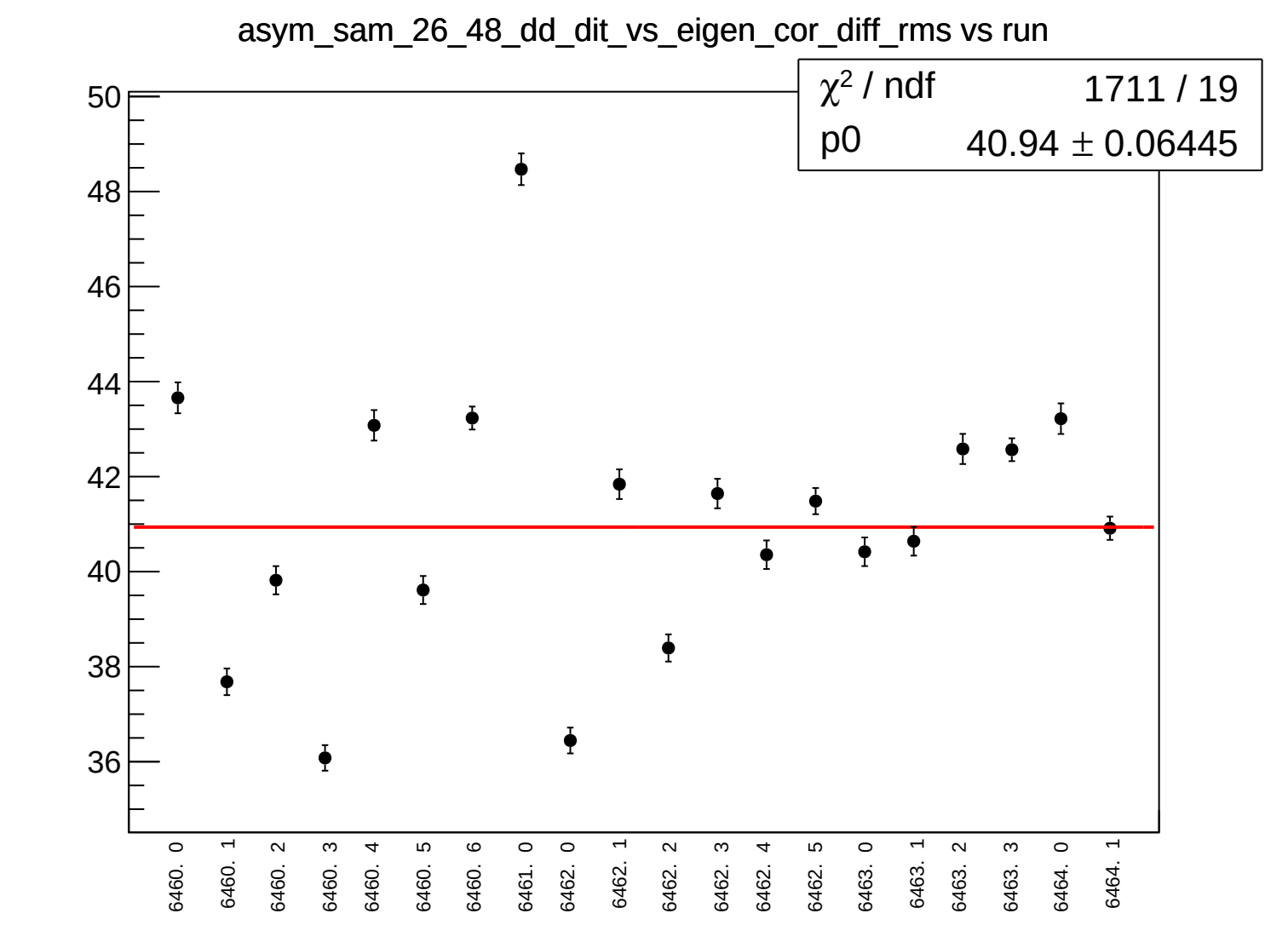

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.982e+05 / 19
p0 9.78e−12 ± 2.99e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

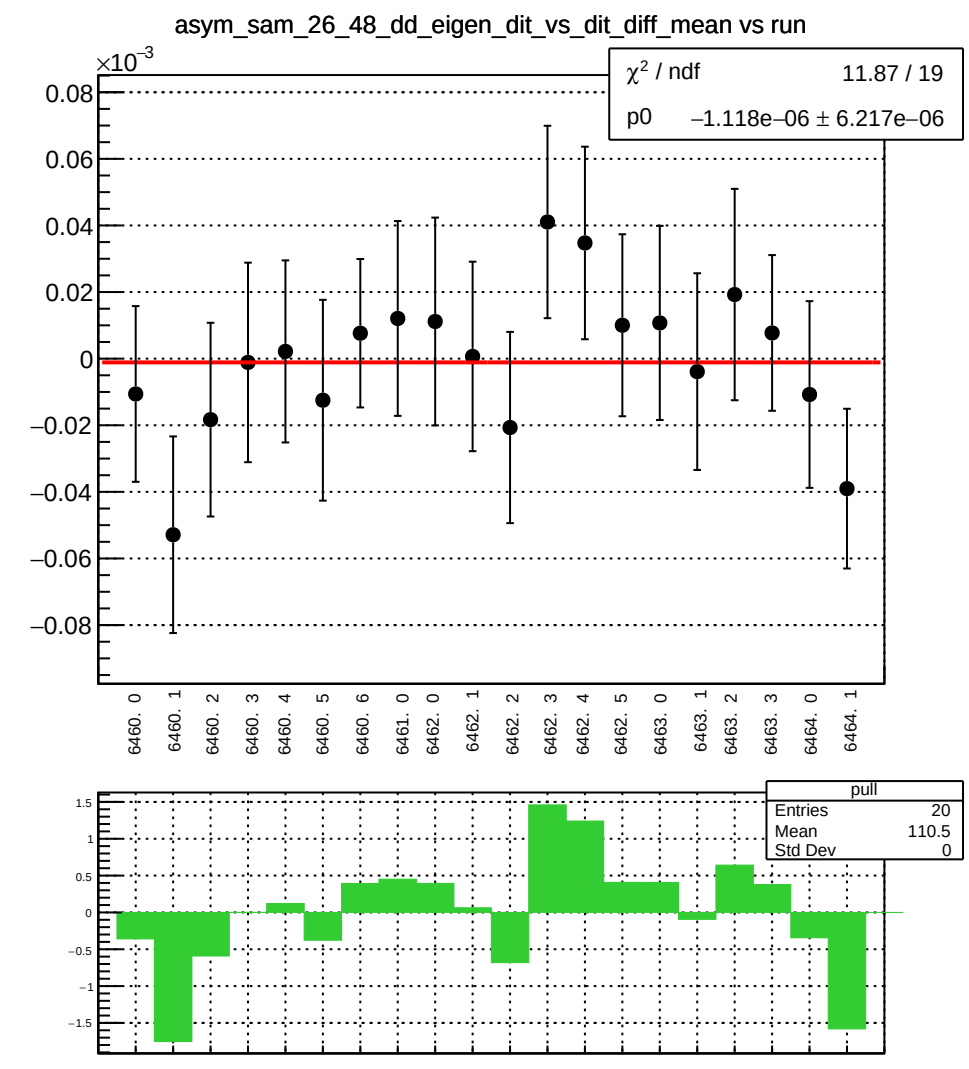

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 15.39 / 19
p0 0.03865 ± 0.09114
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −800.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

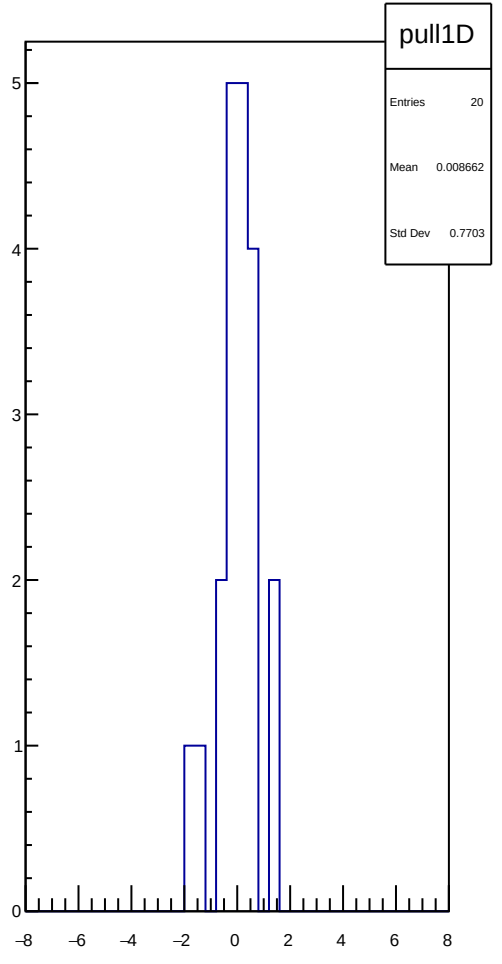

pull1D
Entries 20
Mean 0.002456
Std Dev 0.8772
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

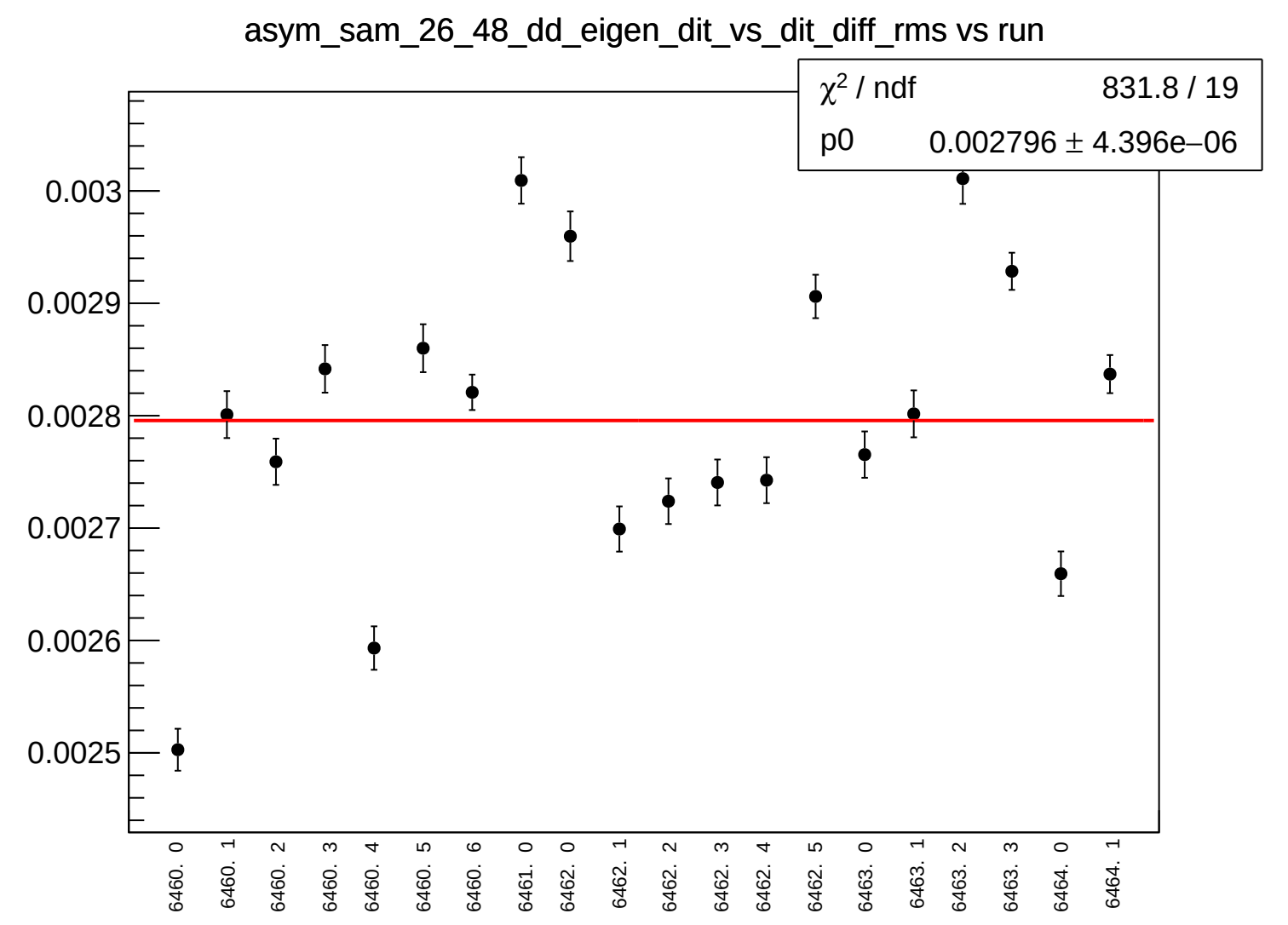

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1711 / 19
p0 40.94 ± 0.06445
50
48
46
44
42
40
38
36
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

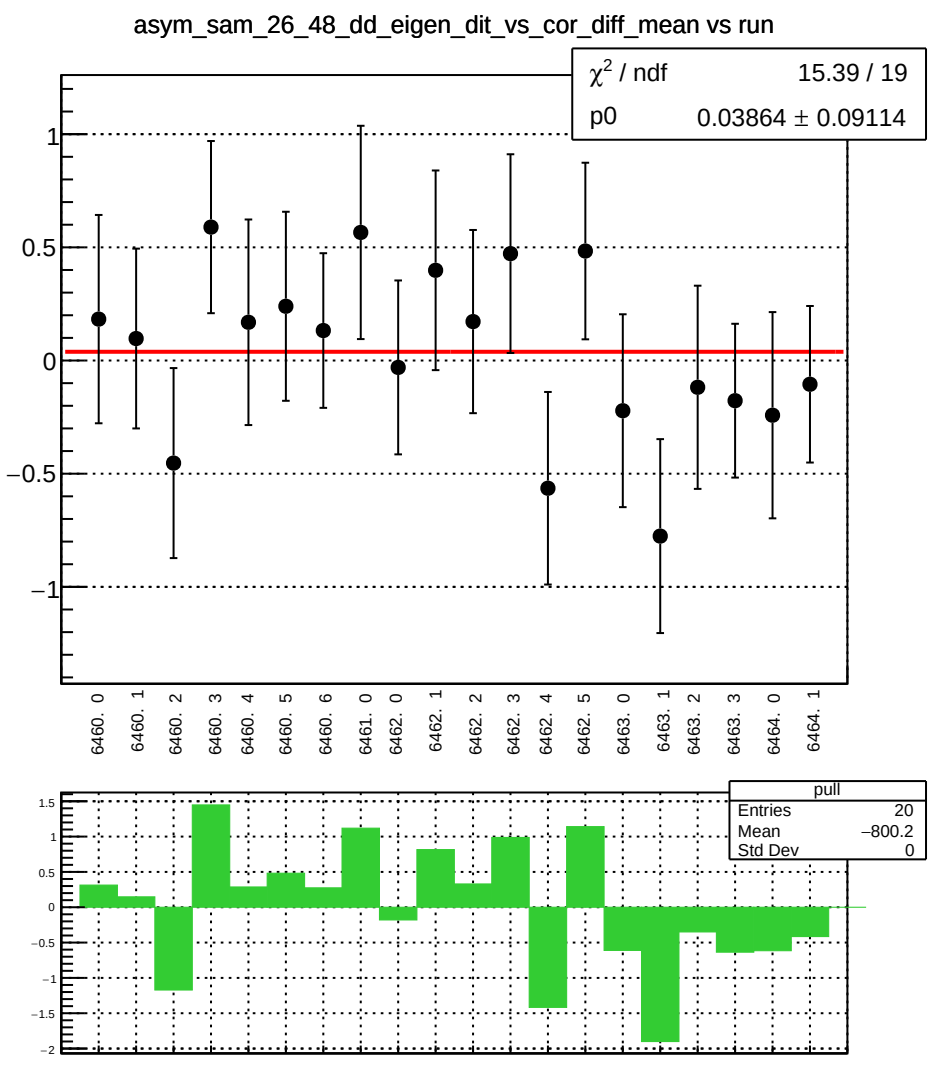

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.39 / 19
p0 0.03865 ± 0.09114
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −800.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.002456
Std Dev 0.8772
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

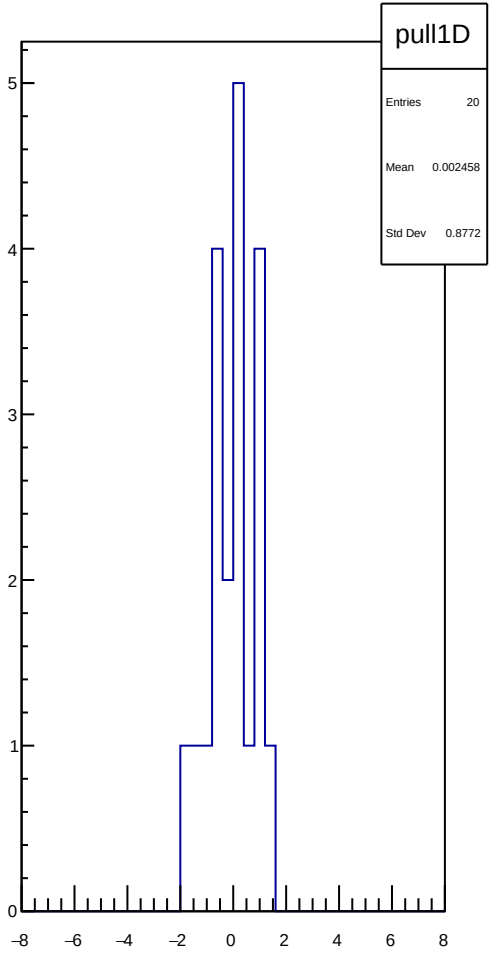

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1711 / 19
p0 40.94 ± 0.06445
50
48
46
44
42
40
38
36
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

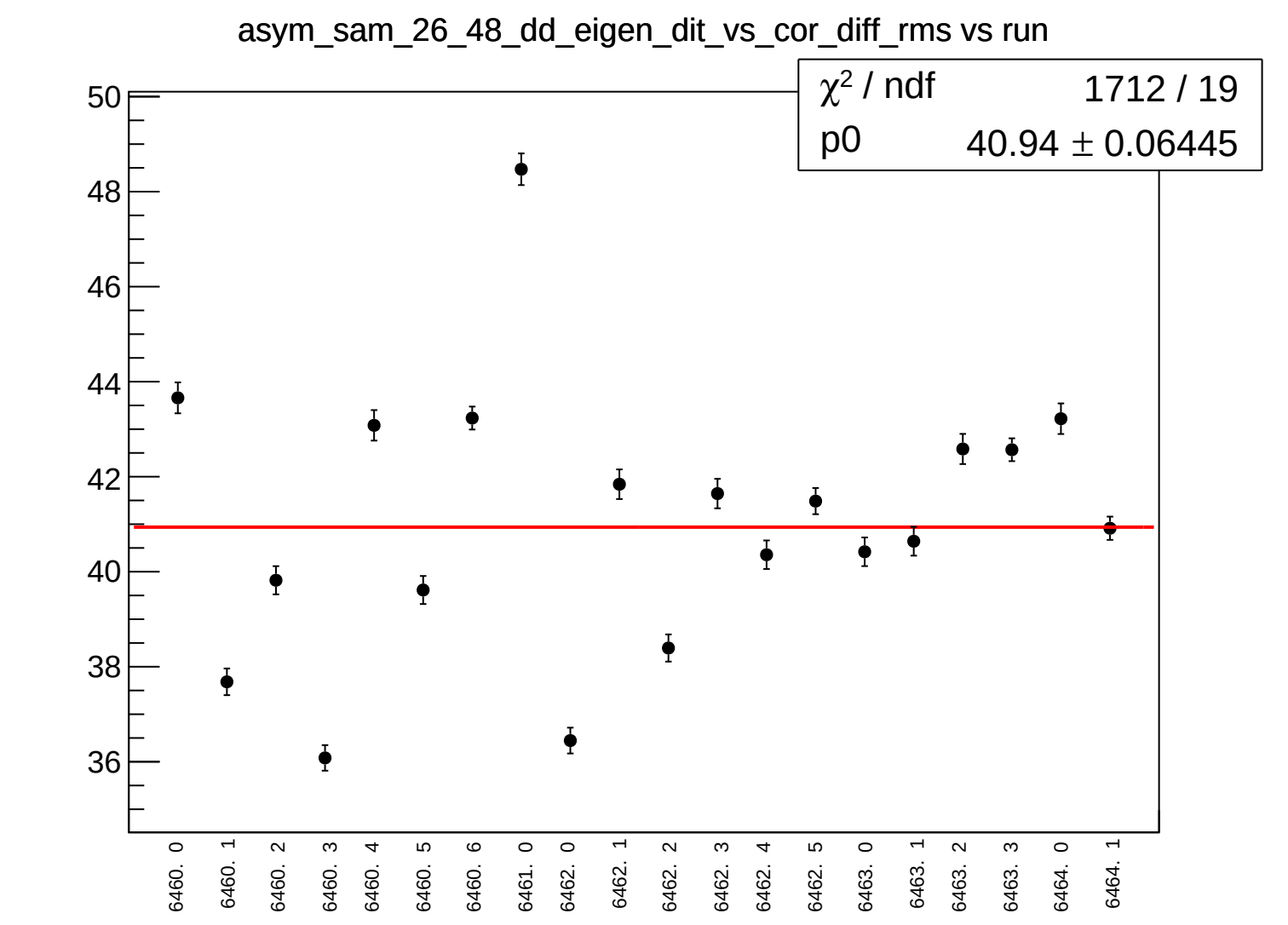

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 11.87 / 19
p0 −1.118e−06 ± 6.217e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 110.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

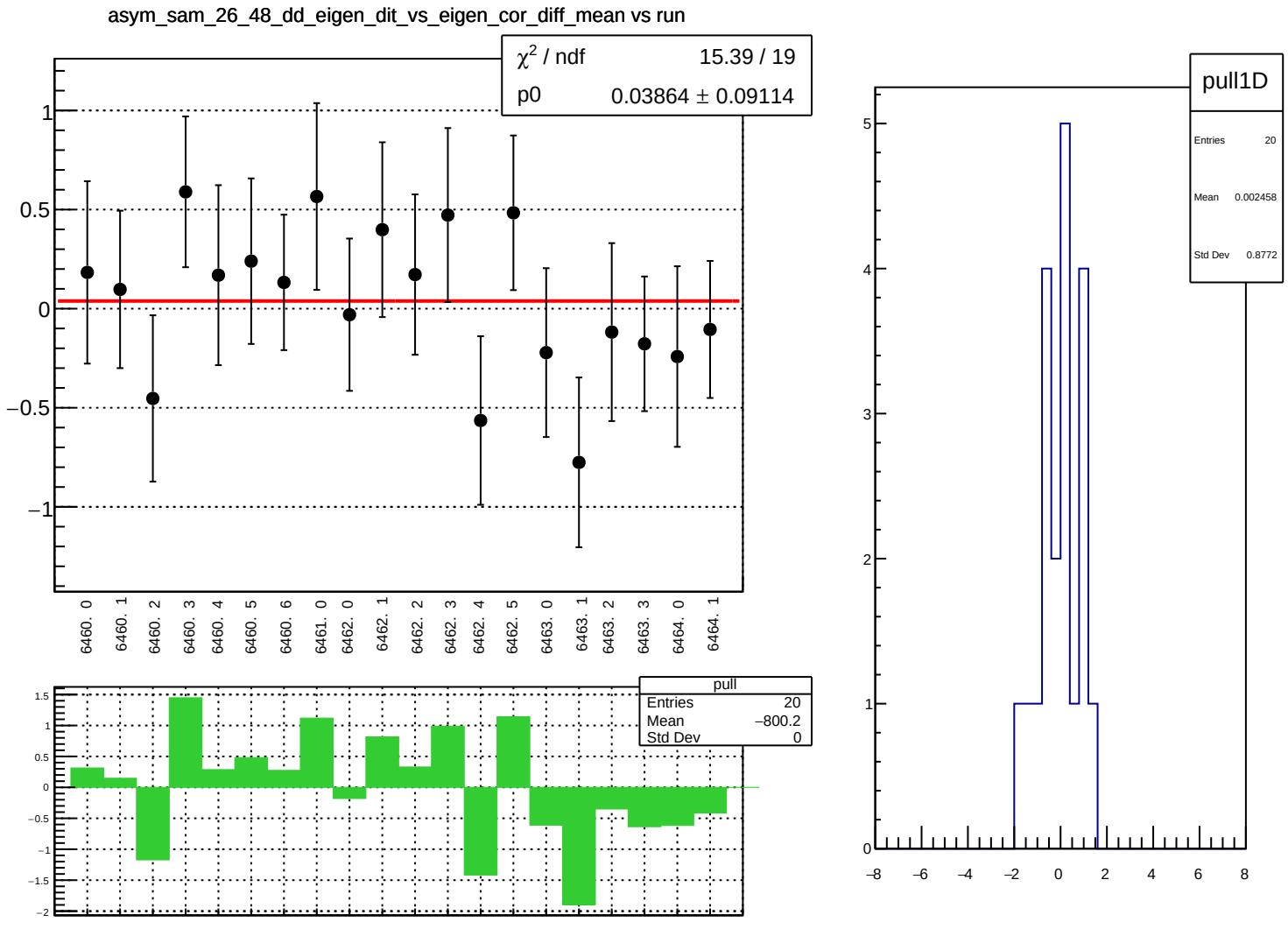

pull1D
Entries 20
Mean 0.008662
Std Dev 0.7703
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

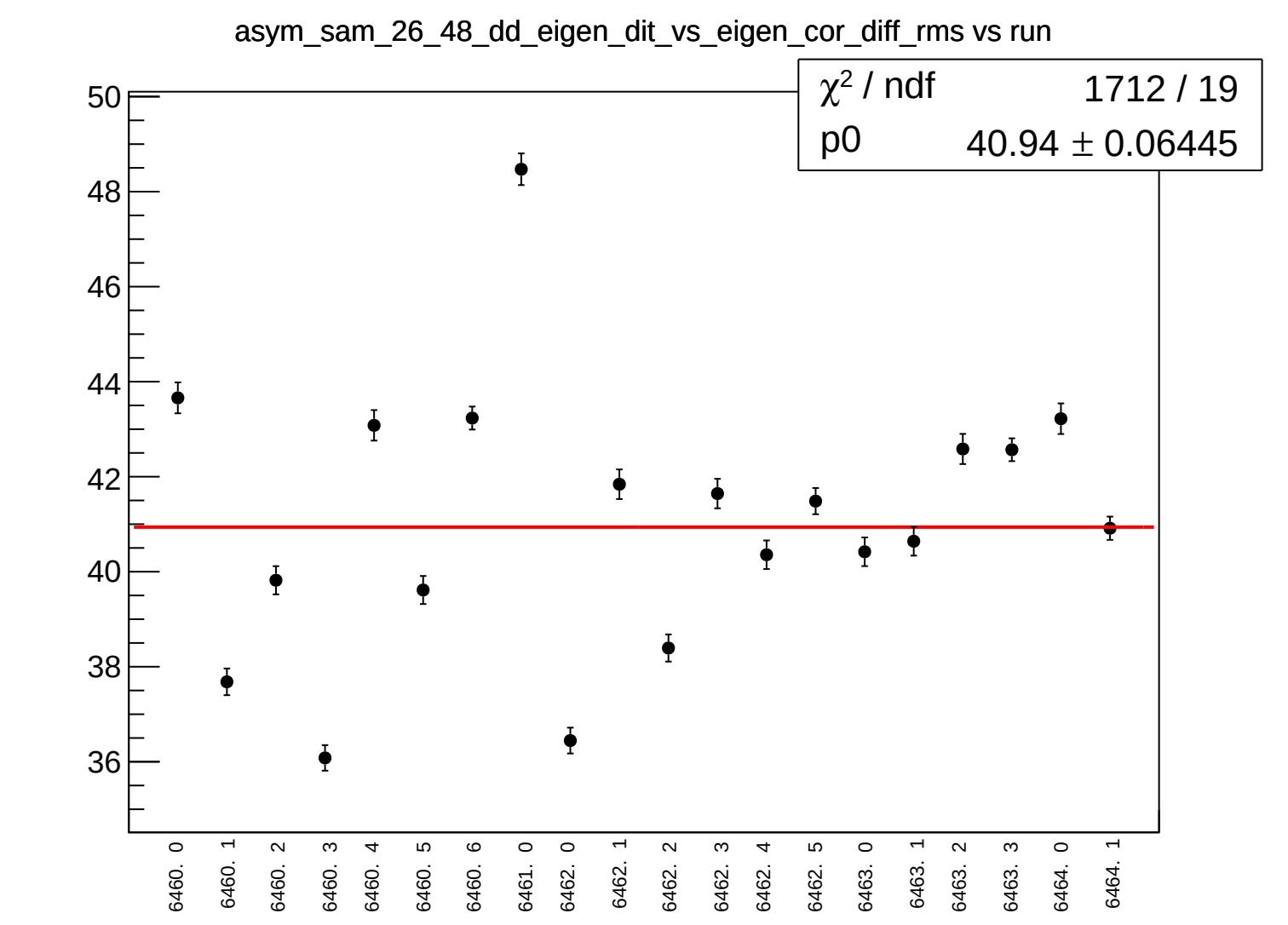

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 831.8 / 19
p0 0.002796 ± 4.396e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

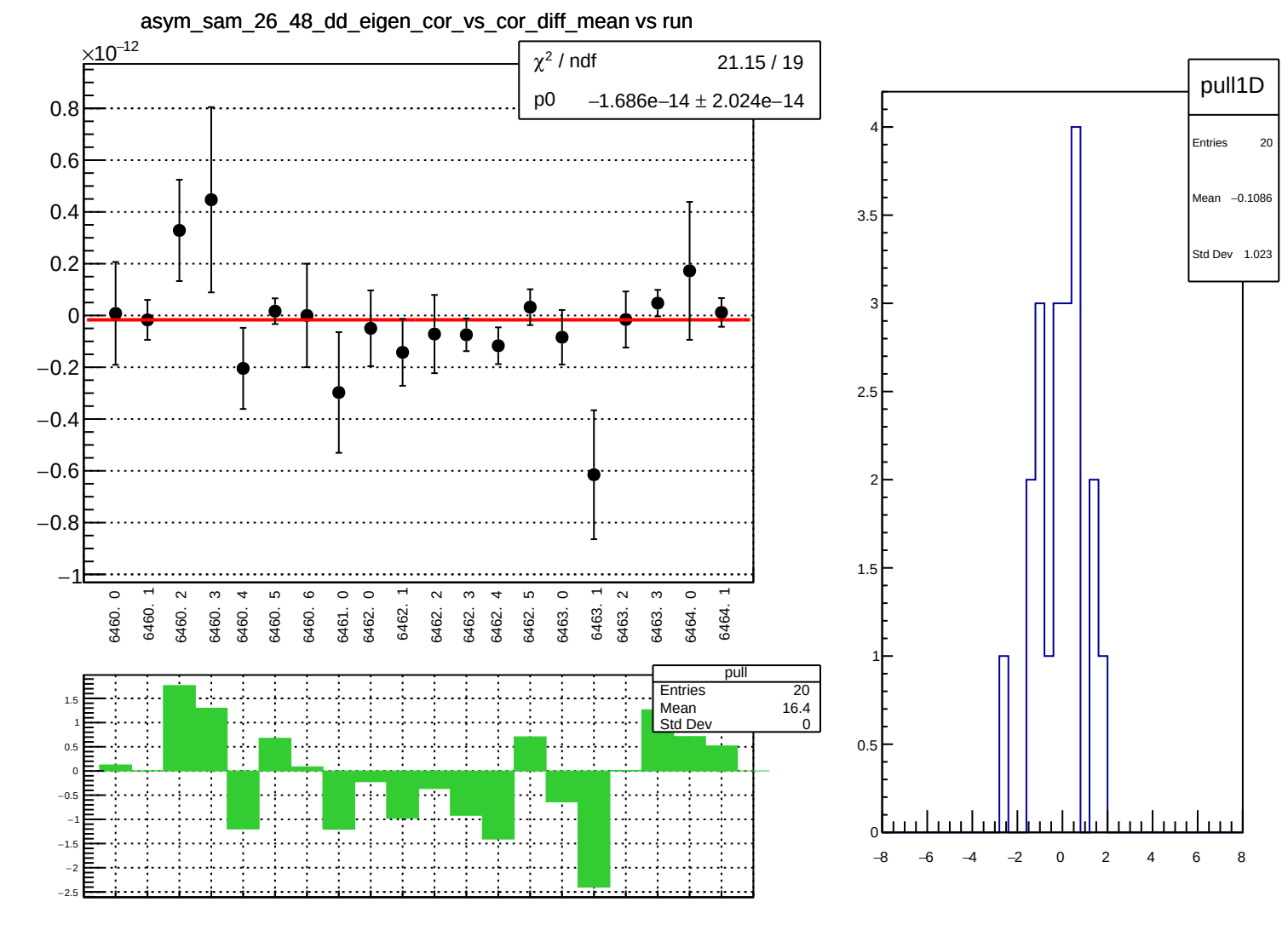

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 15.39 / 19
p0 0.03864 ± 0.09114
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −800.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

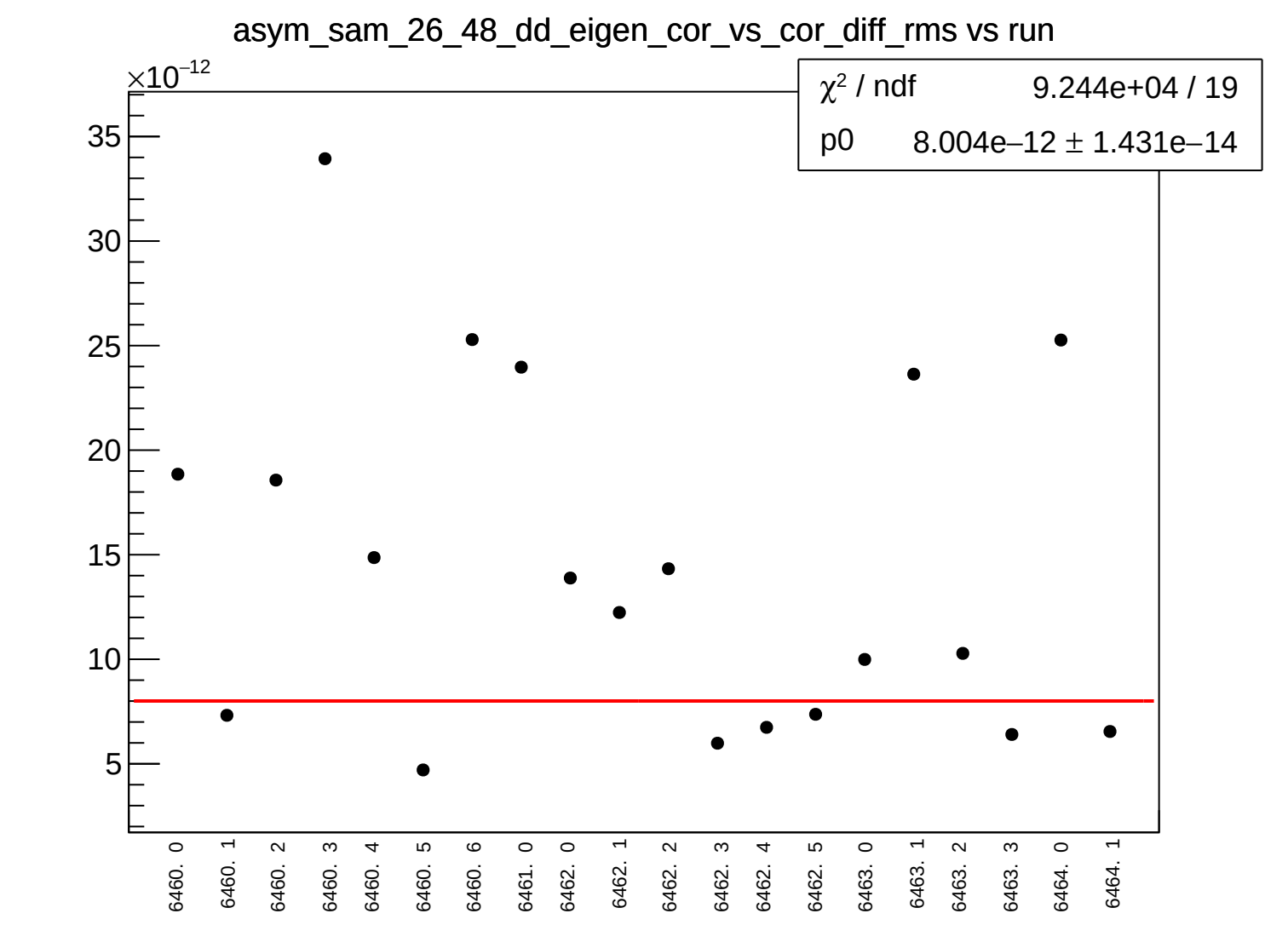

pull1D
Entries 20
Mean 0.002458
Std Dev 0.8772
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

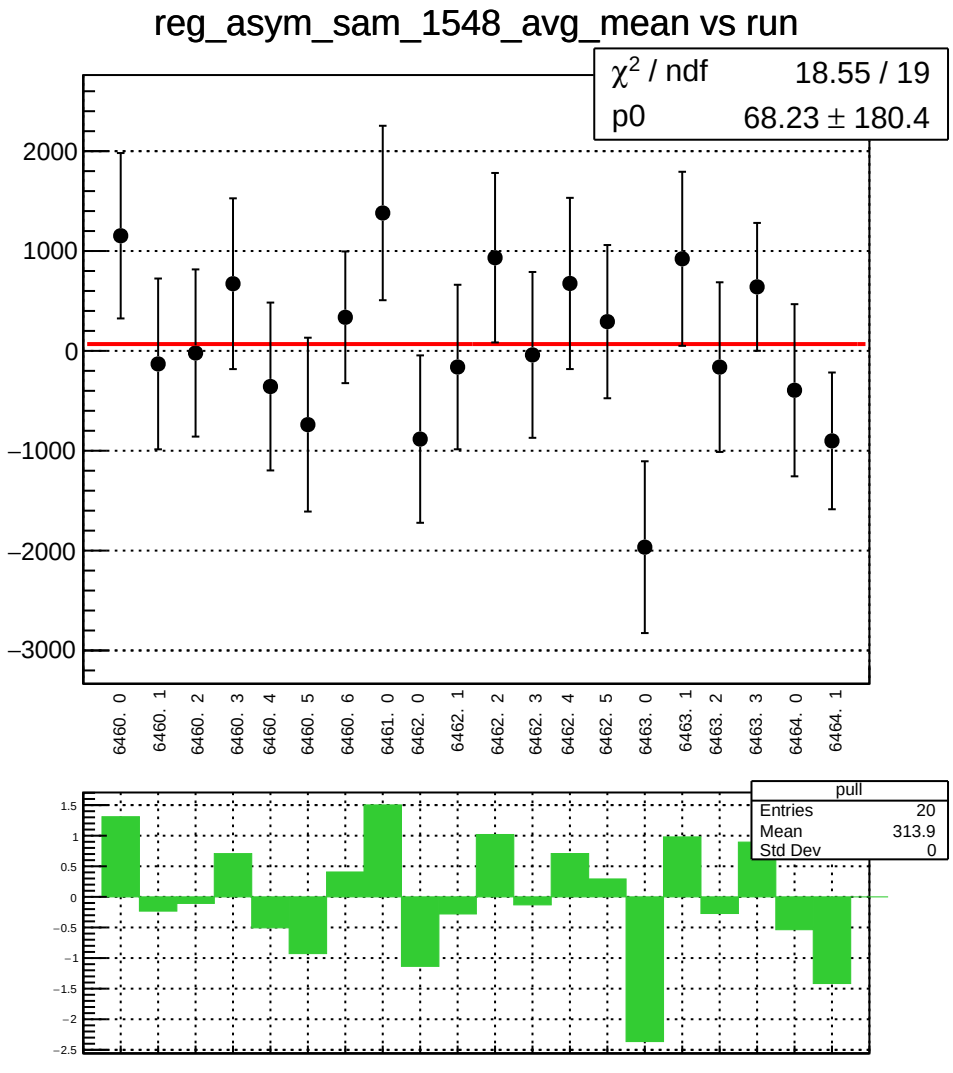

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1712 / 19
p0 40.94 ± 0.06445
50
48
46
44
42
40
38
36
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

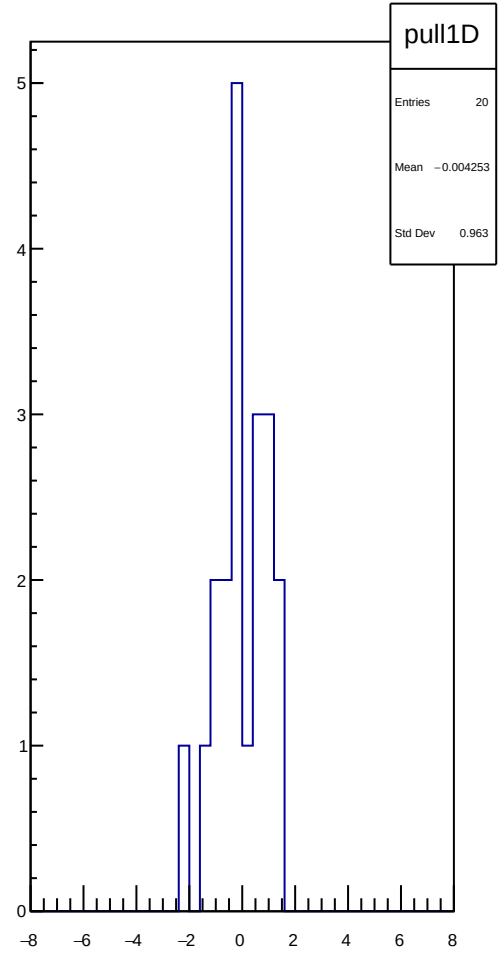

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.39 / 19
p0 0.03864 ± 0.09114
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean –800.2
Std Dev 0
pull1D
Entries 20
Mean 0.002458
Std Dev 0.8772

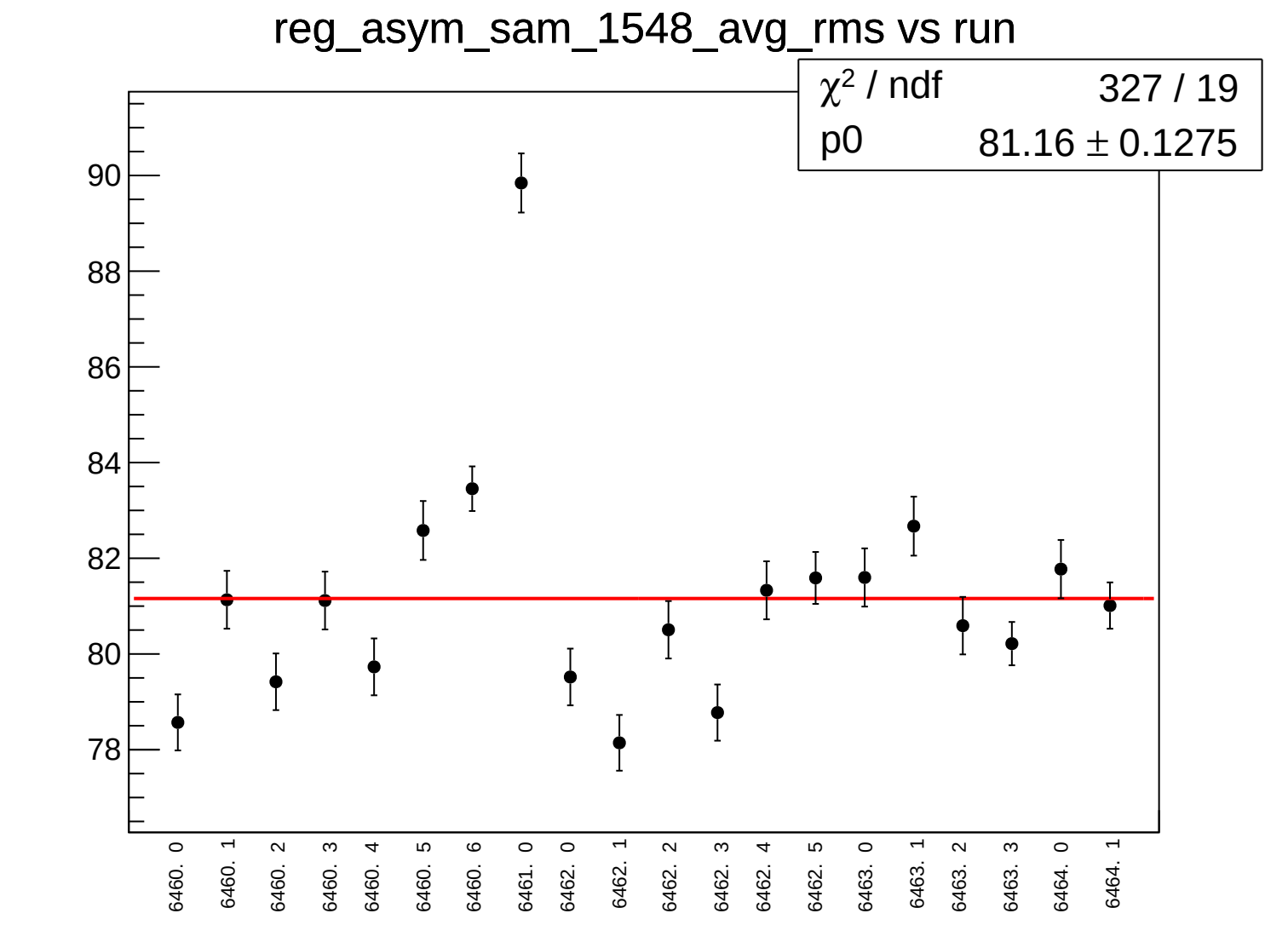

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1712 / 19
p0 40.94 ± 0.06445
50
48
46
44
42
40
38
36
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

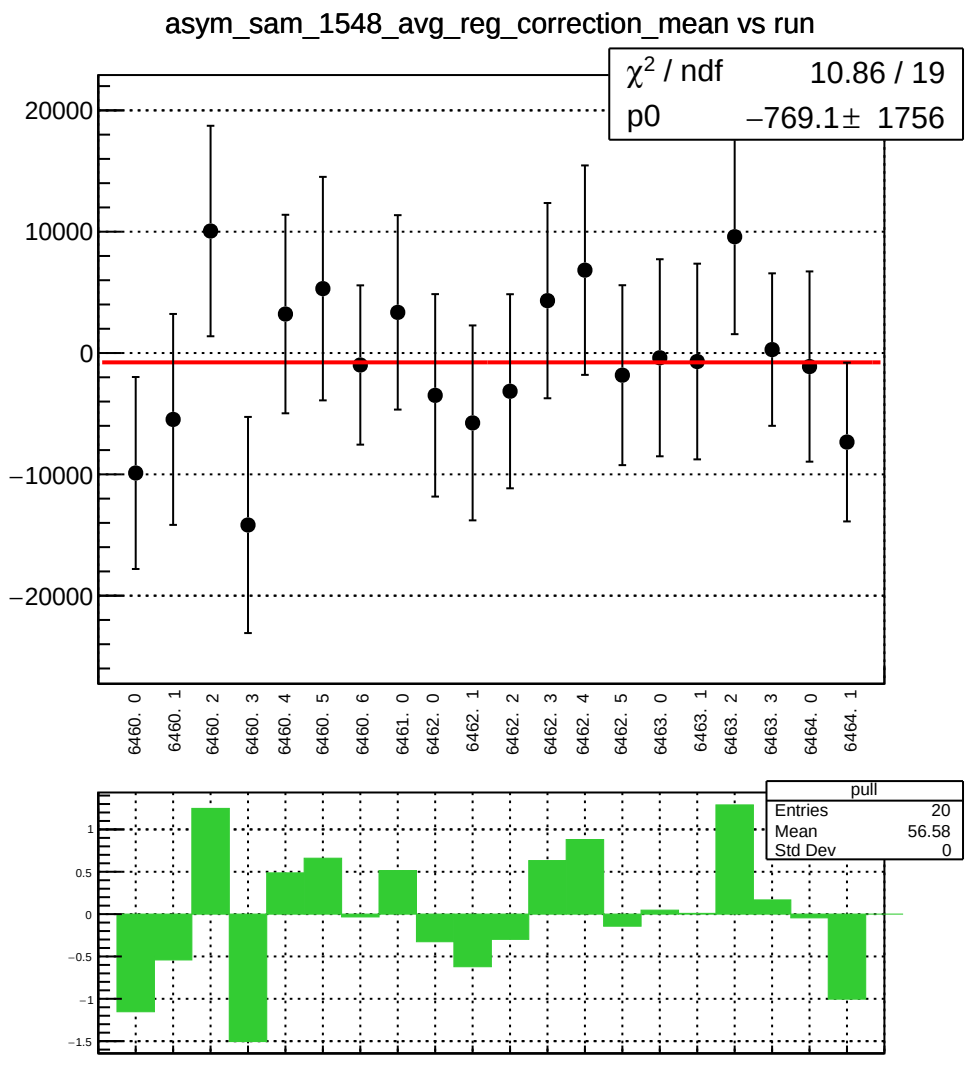

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 21.15 / 19
p0 −1.686e−14 ± 2.024e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 16.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean −0.1086
Std Dev 1.023
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

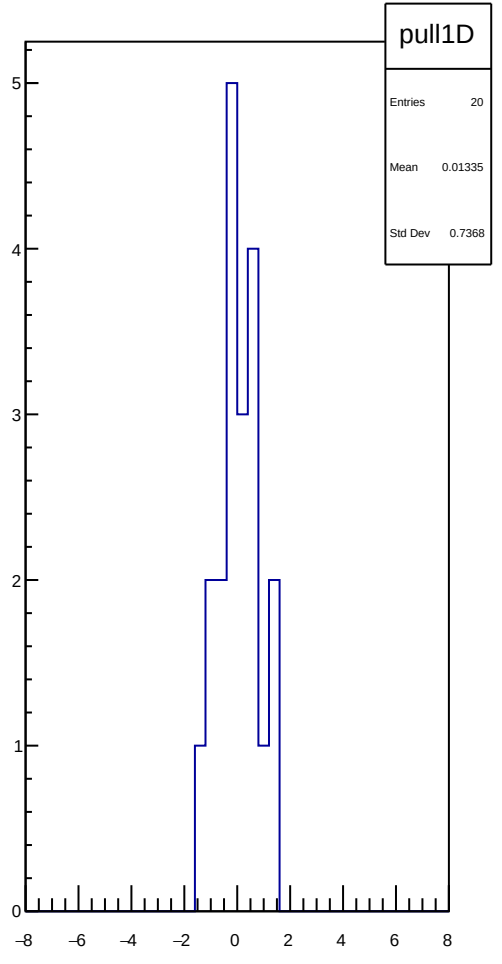

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 9.244e+04 / 19
p0 8.004e−12 ± 1.431e−14
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

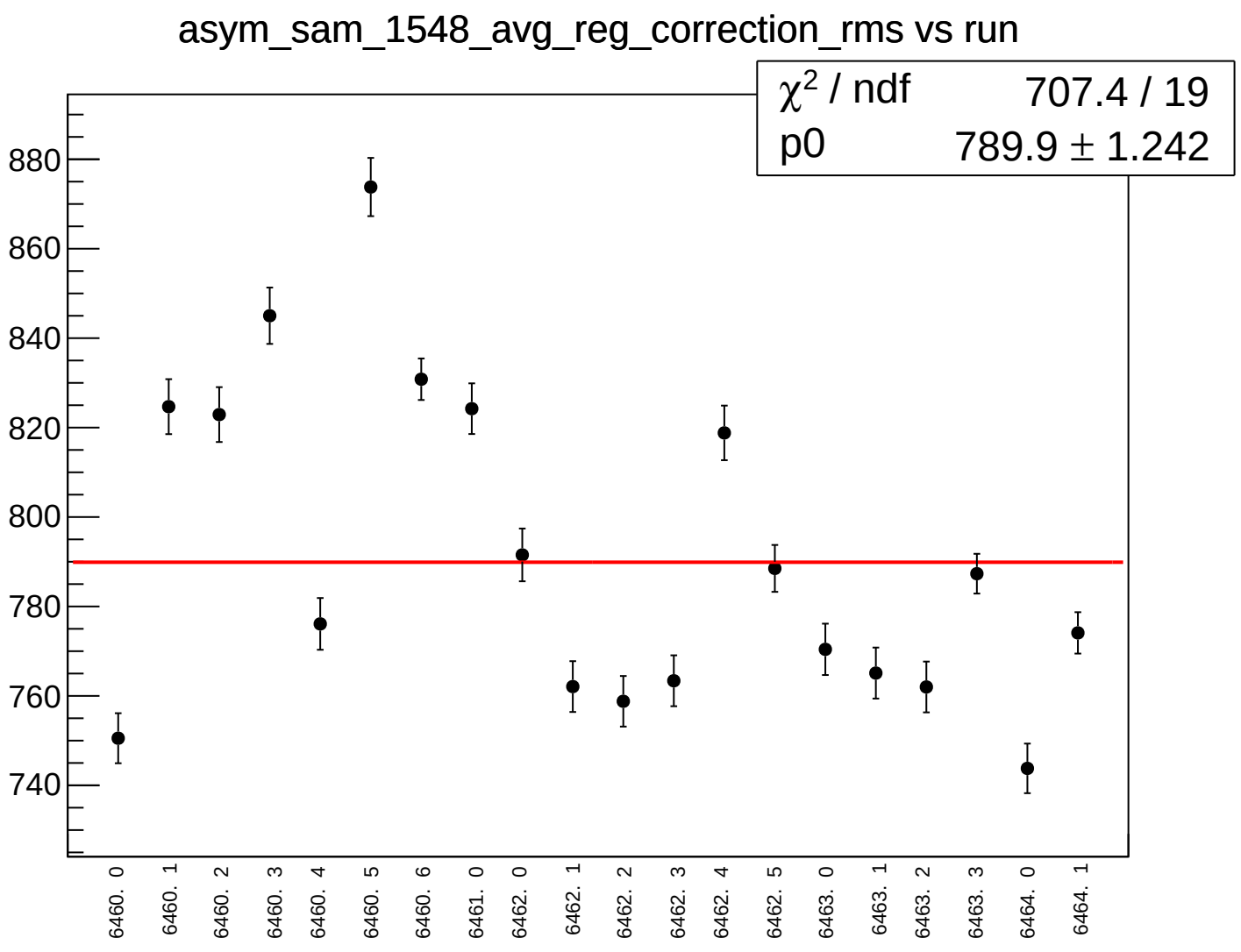

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 18.55 / 19
p0 68.23 ± 180.4
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 313.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

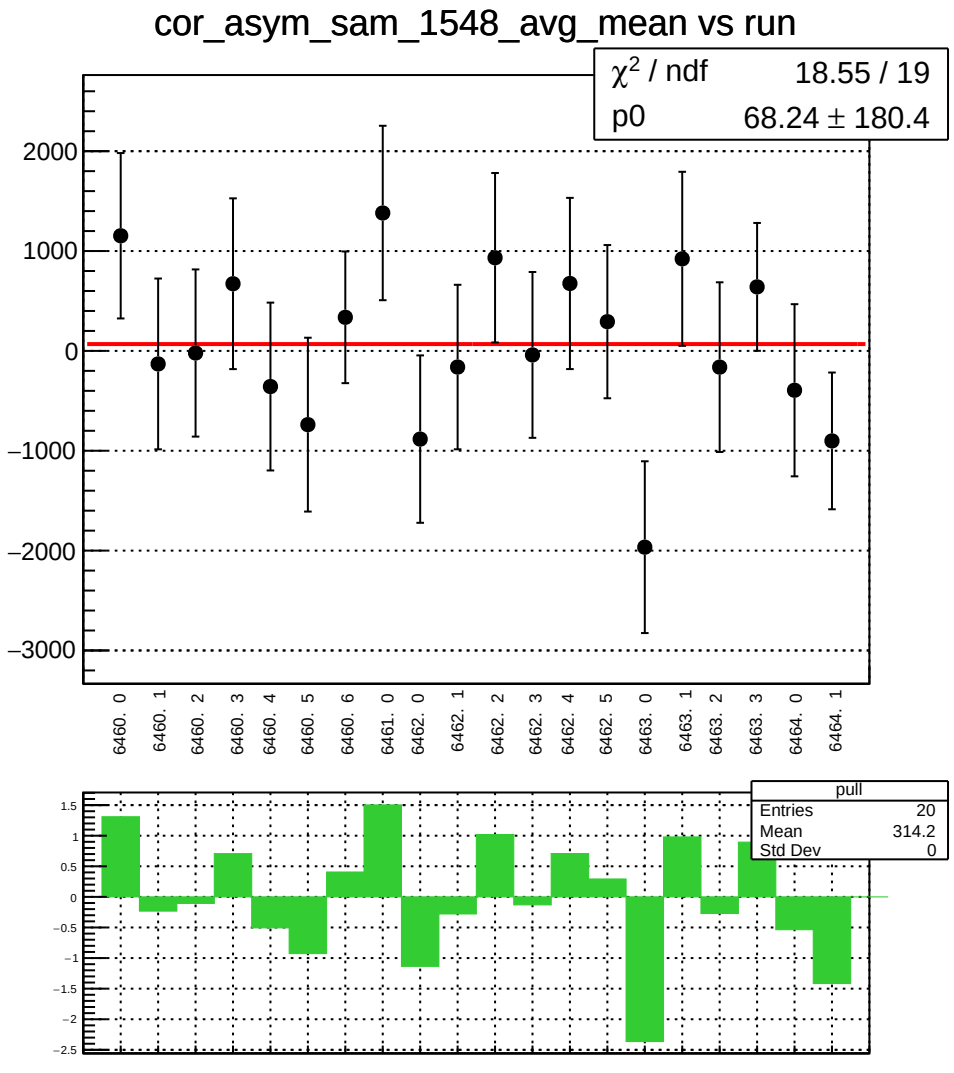

pull1D
Entries 20
Mean −0.004253
Std Dev 0.963
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

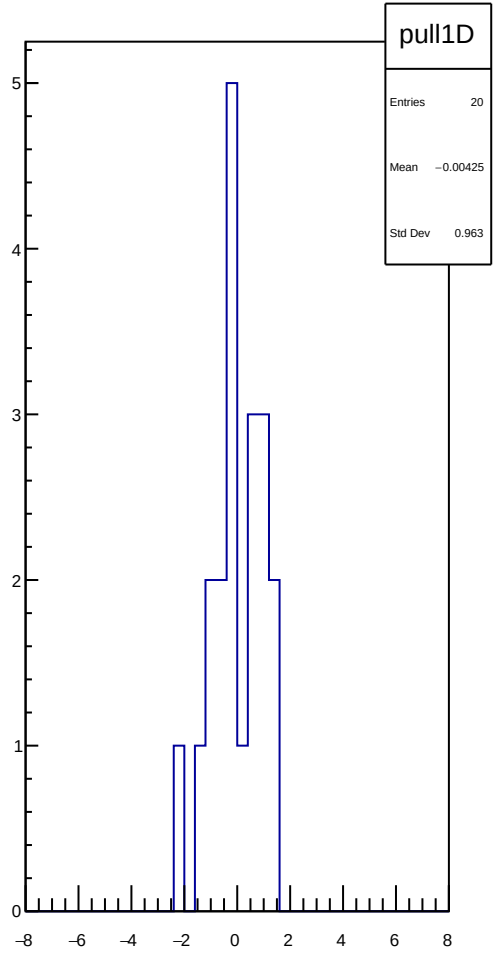

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 327 / 19
p0 81.16 ± 0.1275
90
88
86
84
82
80
78
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

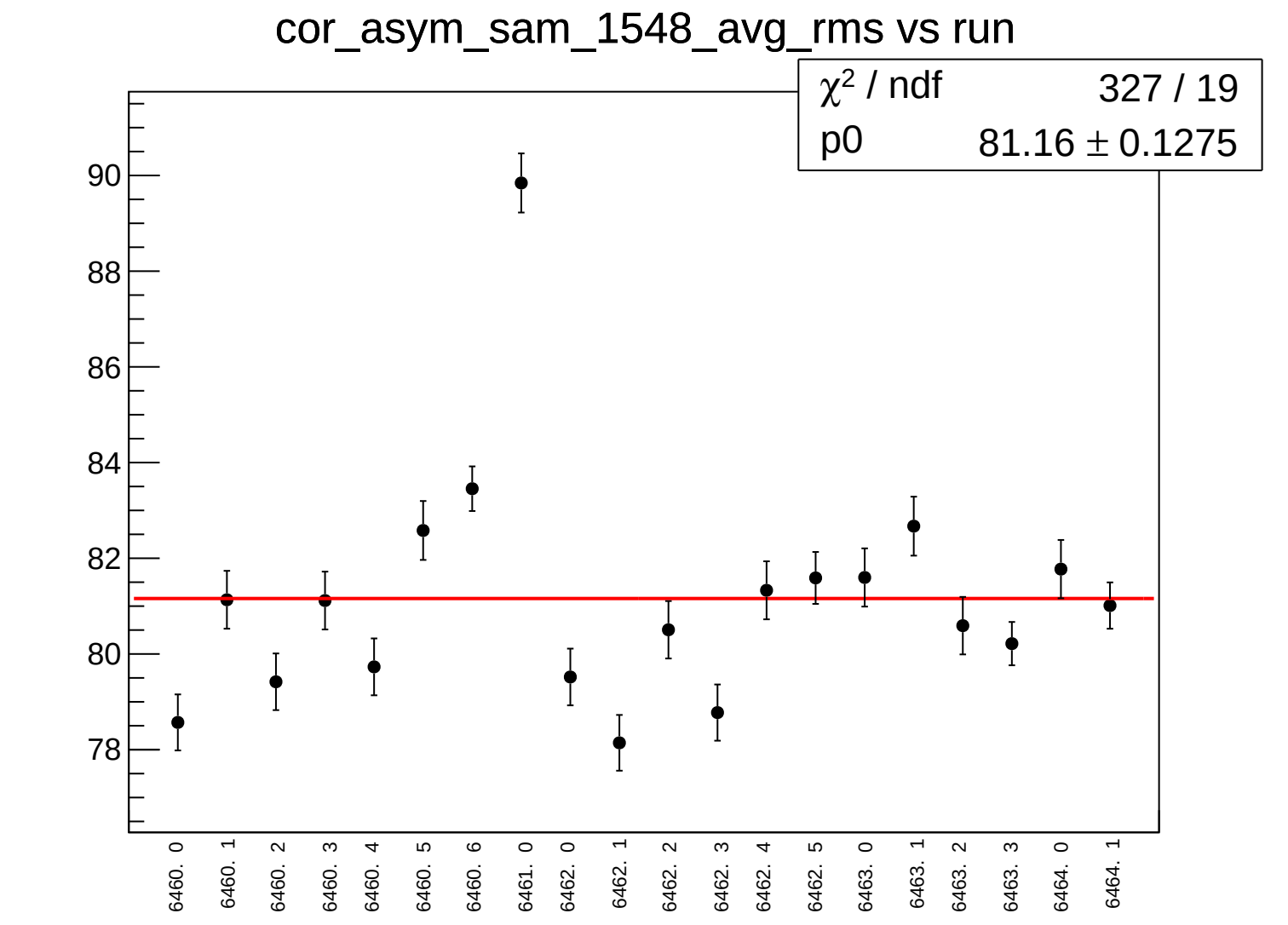

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 10.86 / 19
p0 −769.1± 1756
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.58
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

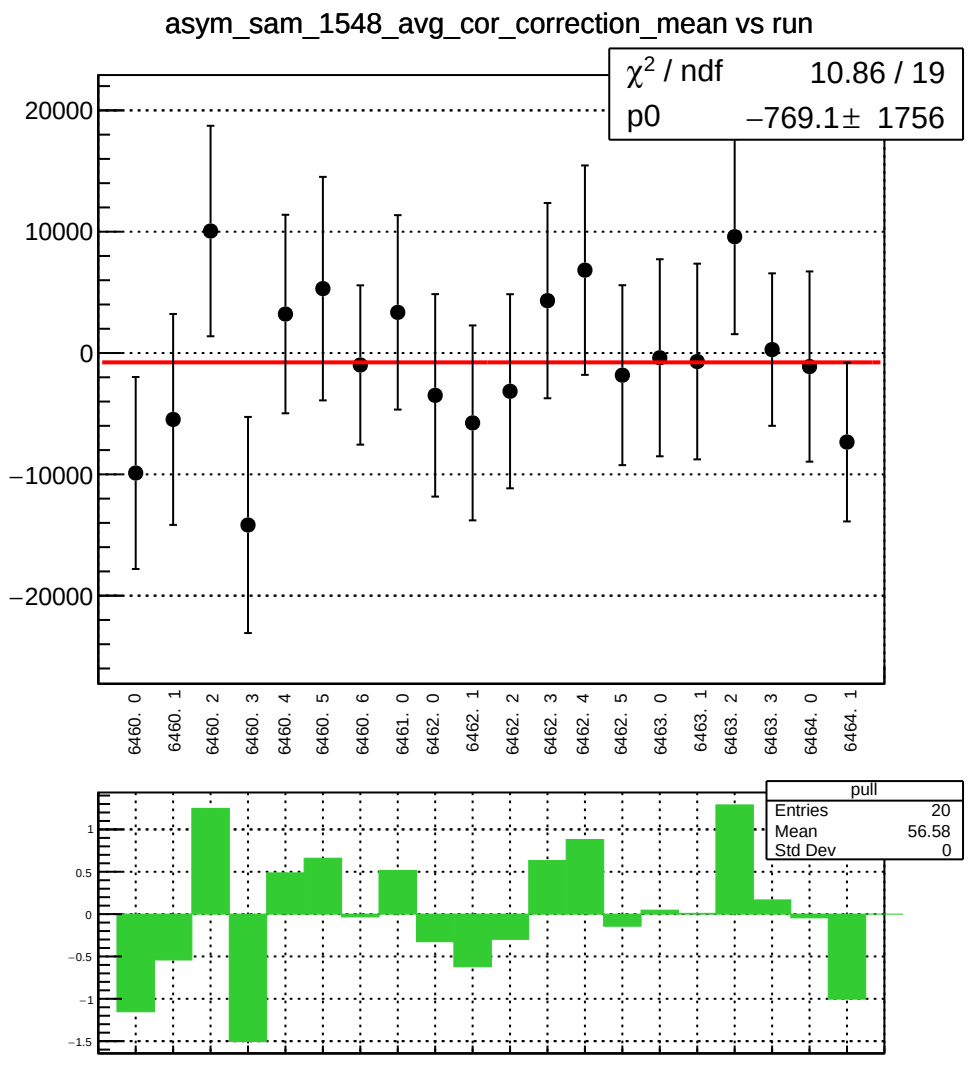

pull1D
Entries 20
Mean 0.01335
Std Dev 0.7368
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

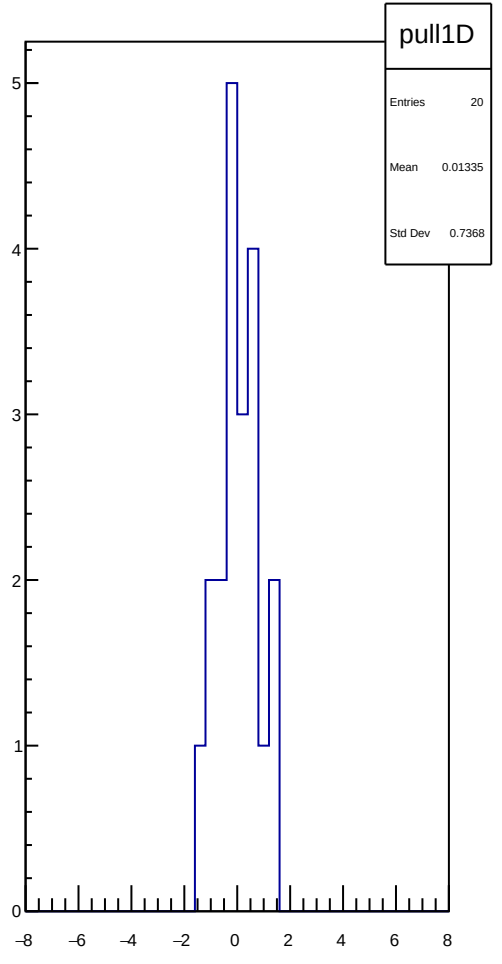

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 707.4 / 19
p0 789.9 ± 1.242
880
860
840
820
800
780
760
740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

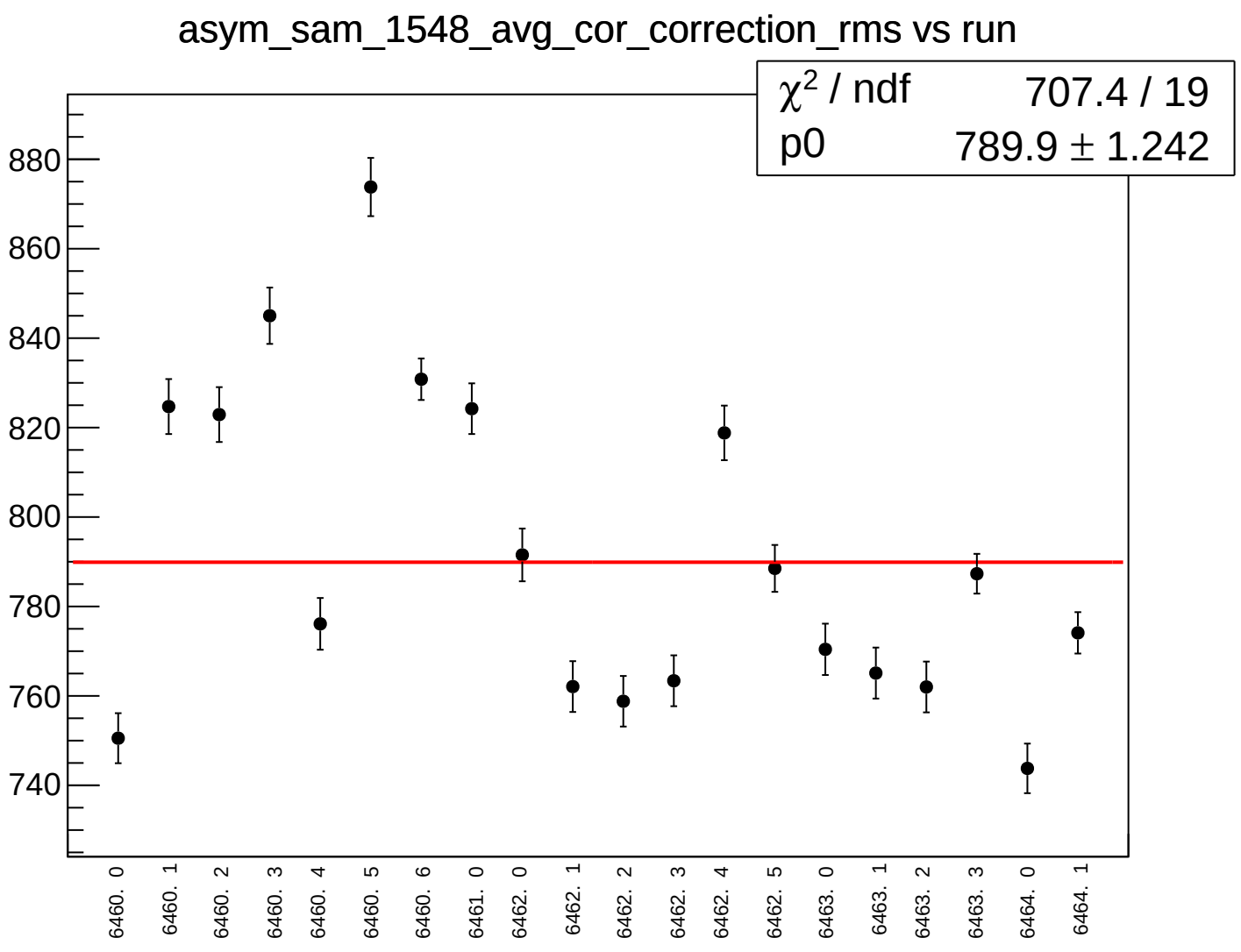

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 18.55 / 19
p0 68.24 ± 180.4
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 314.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

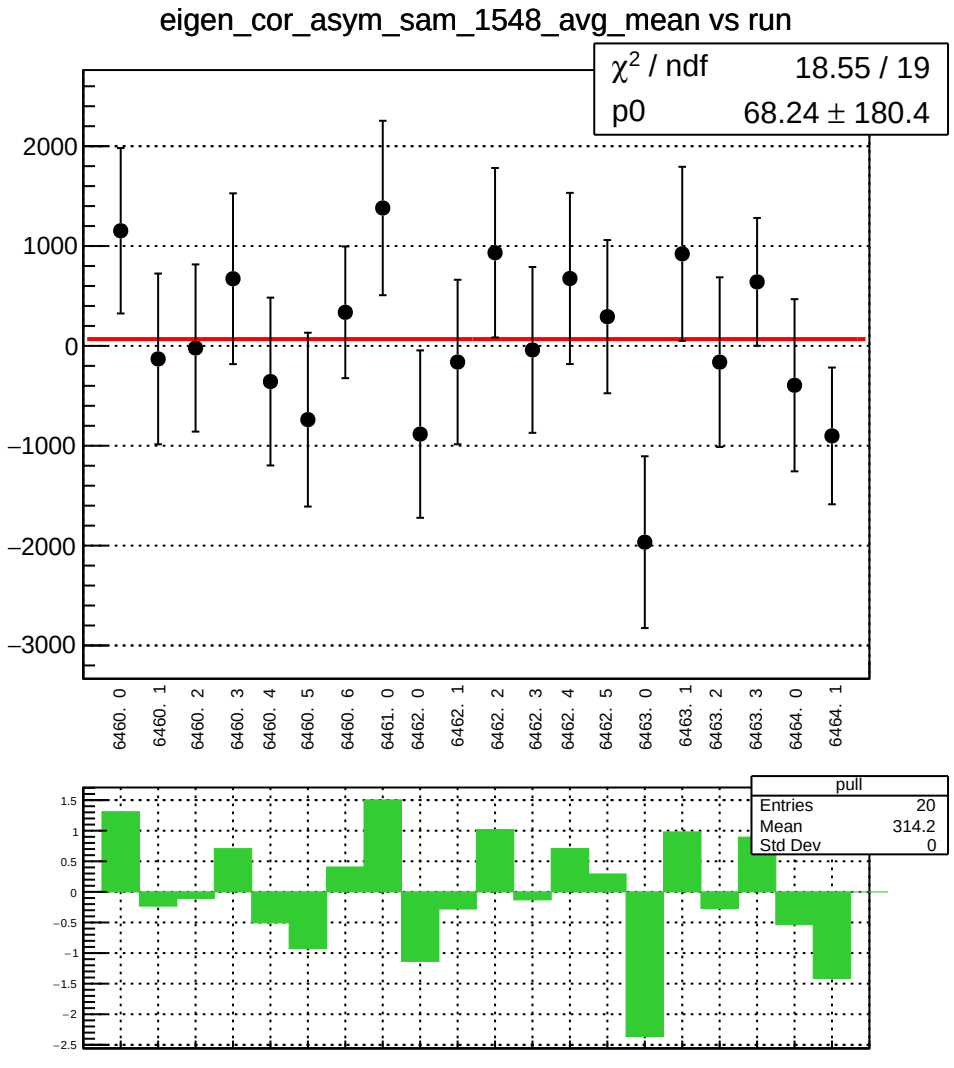

pull1D
Entries 20
Mean −0.00425
Std Dev 0.963
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

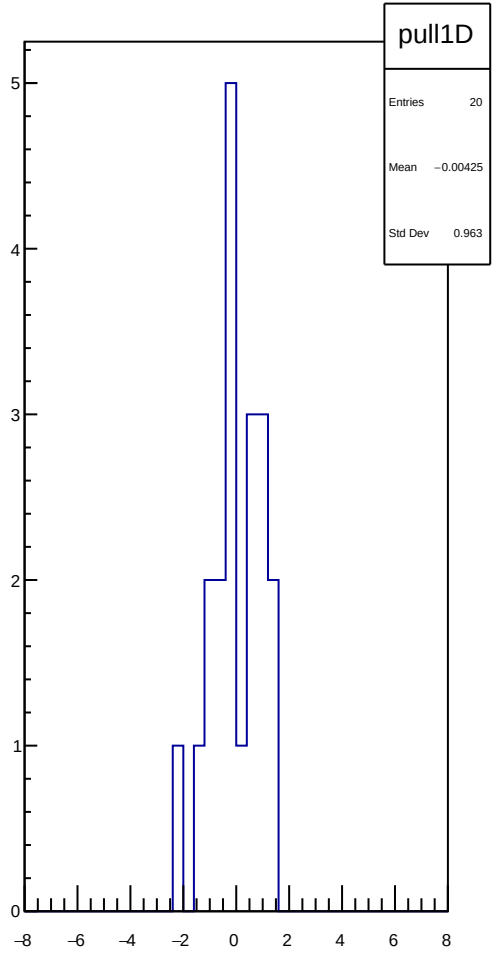

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 327 / 19
p0 81.16 ± 0.1275
90
88
86
84
82
80
78
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

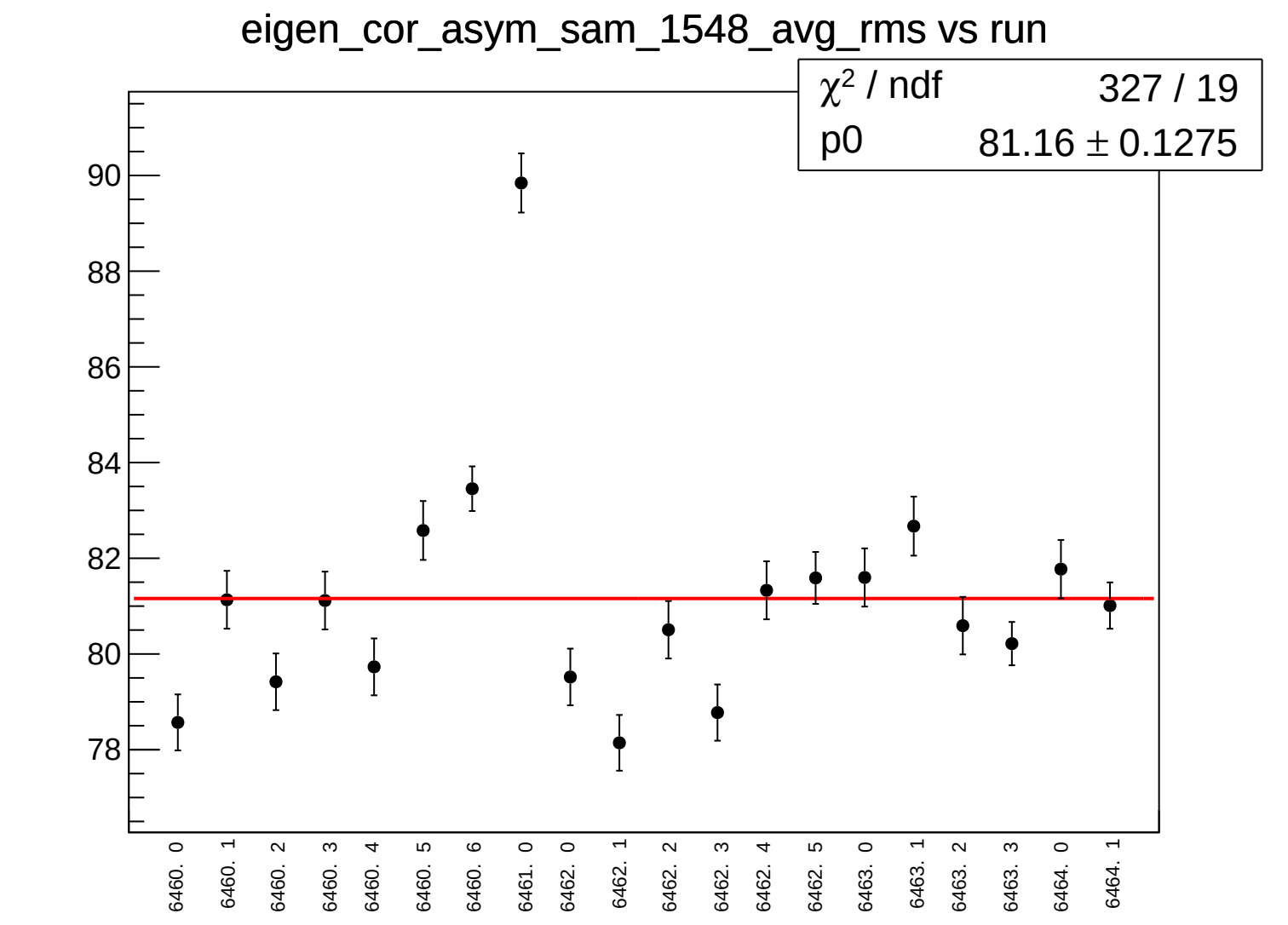

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 10.86 / 19
p0 −769.1± 1756
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.58
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

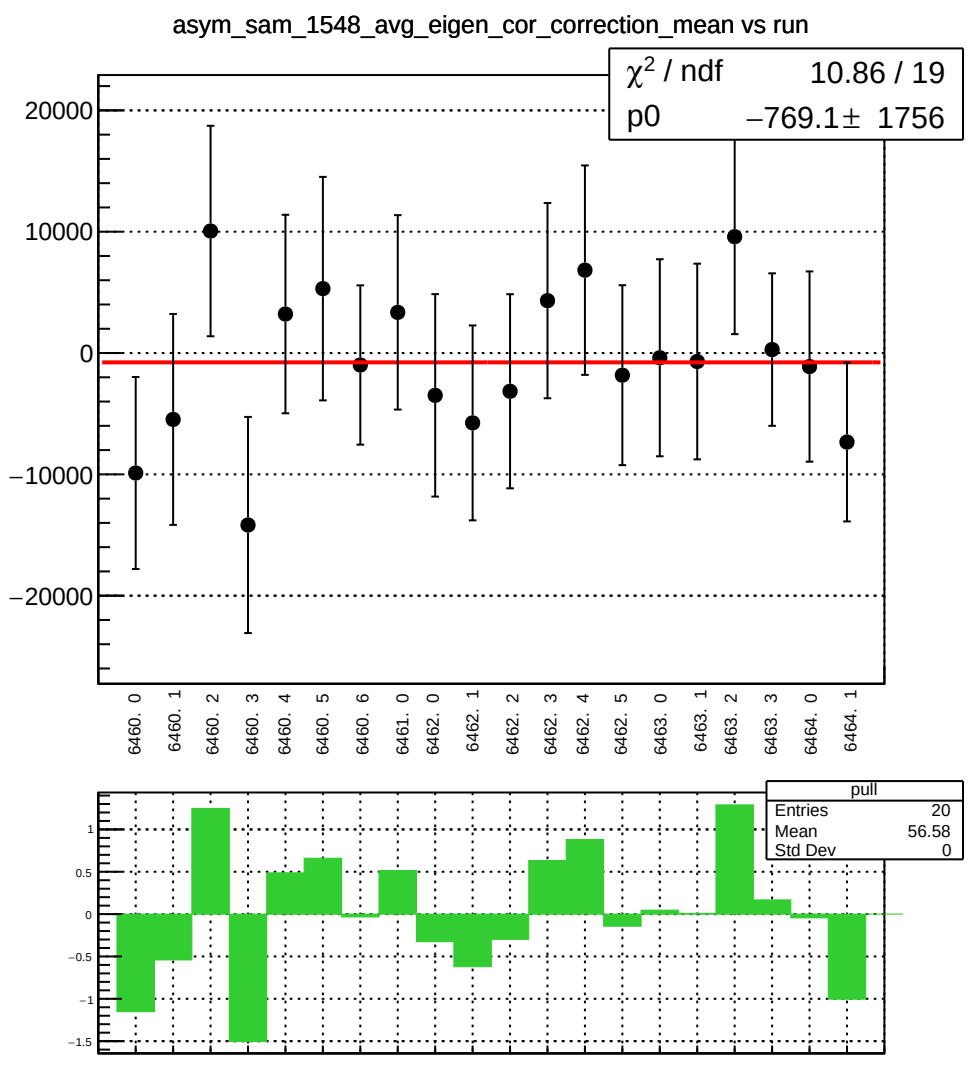

pull1D
Entries 20
Mean 0.01335
Std Dev 0.7368
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

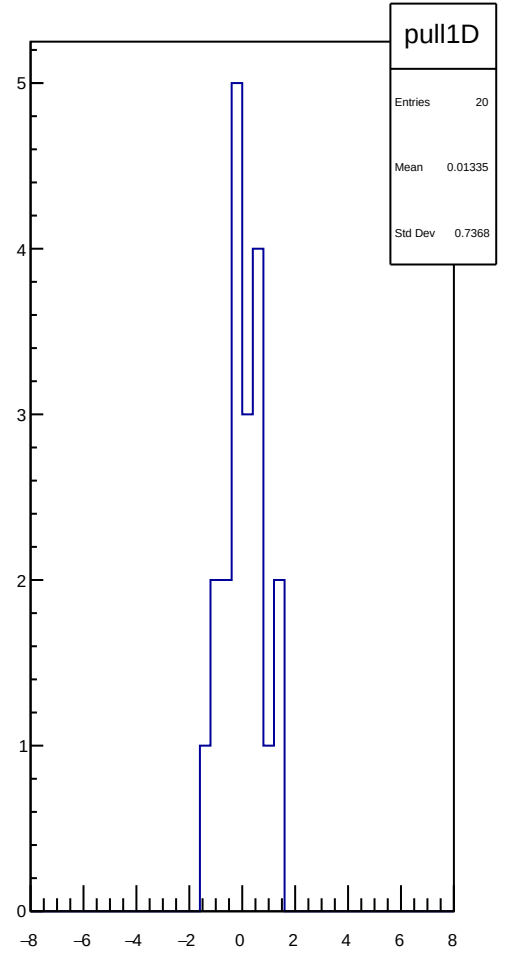

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 707.4 / 19
p0 789.9 ± 1.242
880
860
840
820
800
780
760
740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

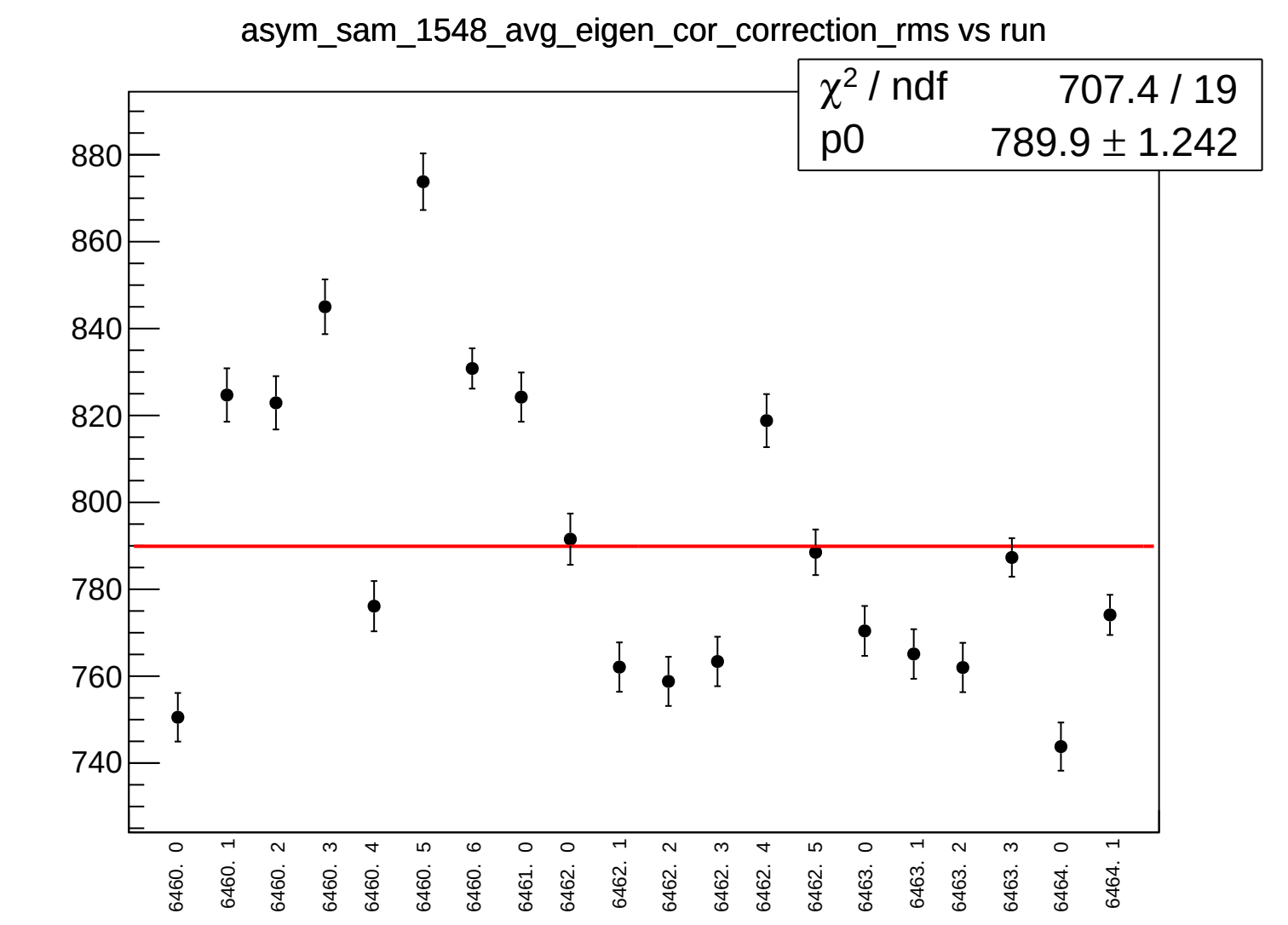

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 18.55 / 19
p0 68.24 ± 180.4
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 314.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

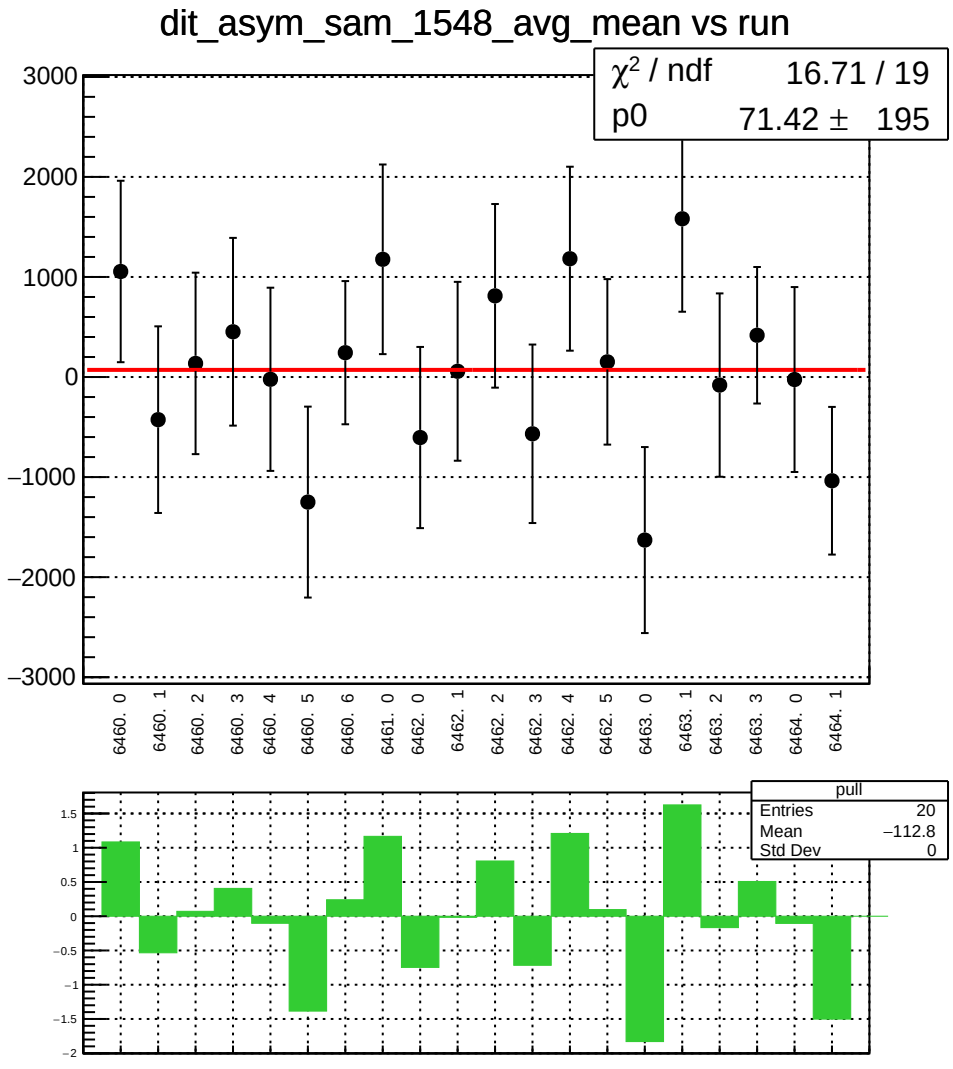

pull1D
Entries 20
Mean −0.00425
Std Dev 0.963
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

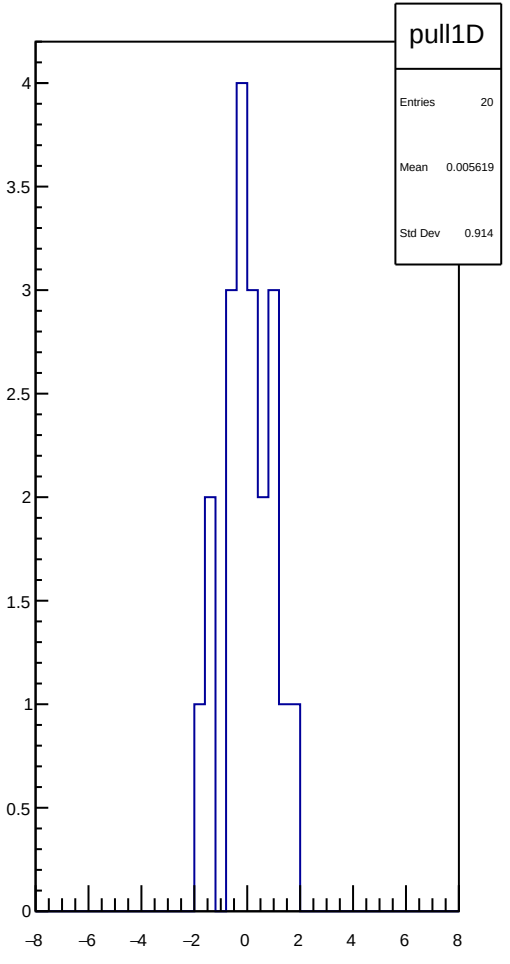

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 327 / 19
p0 81.16 ± 0.1275
90
88
86
84
82
80
78
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

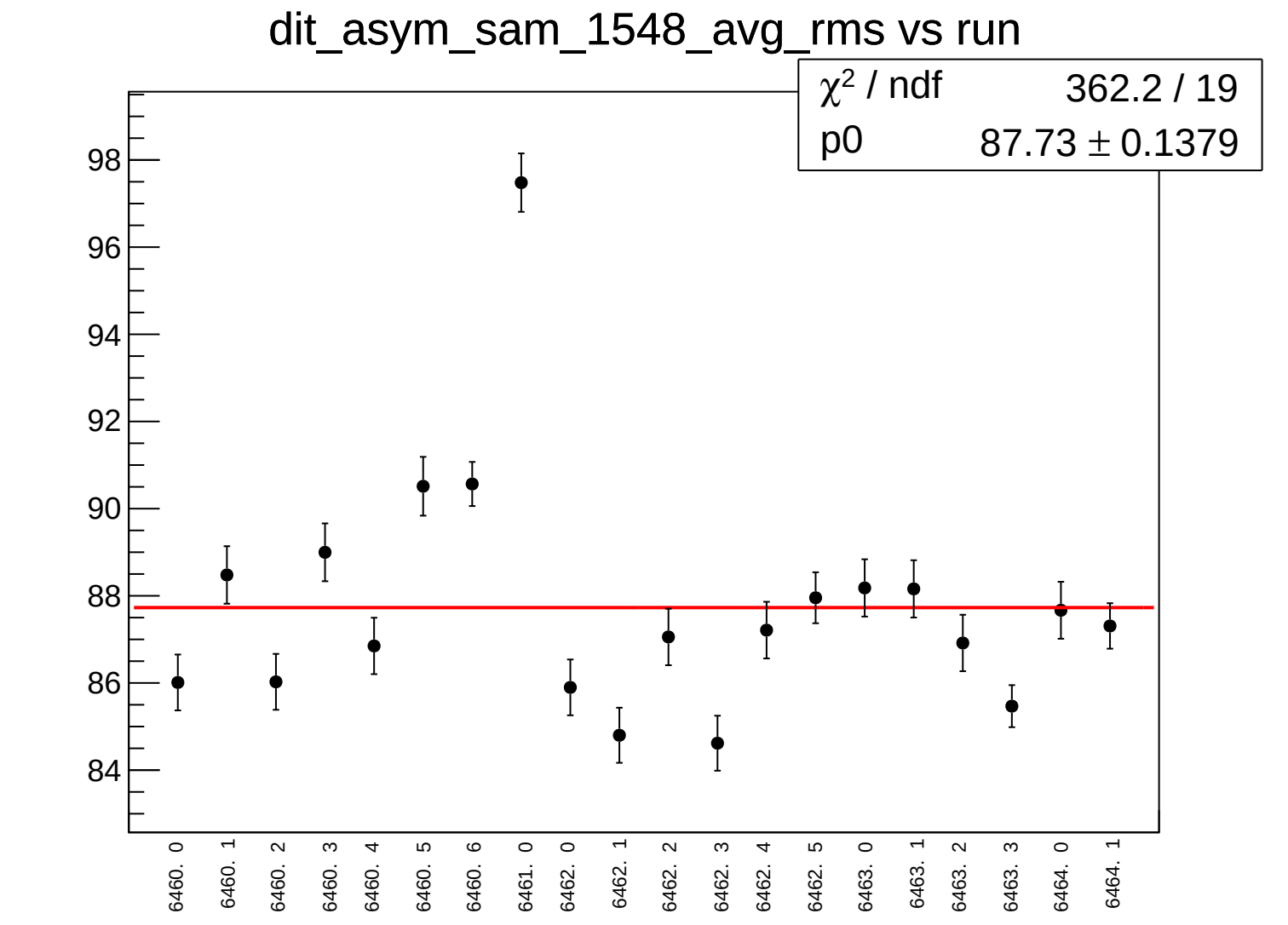

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.86 / 19
p0 −769.1± 1756
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.58
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

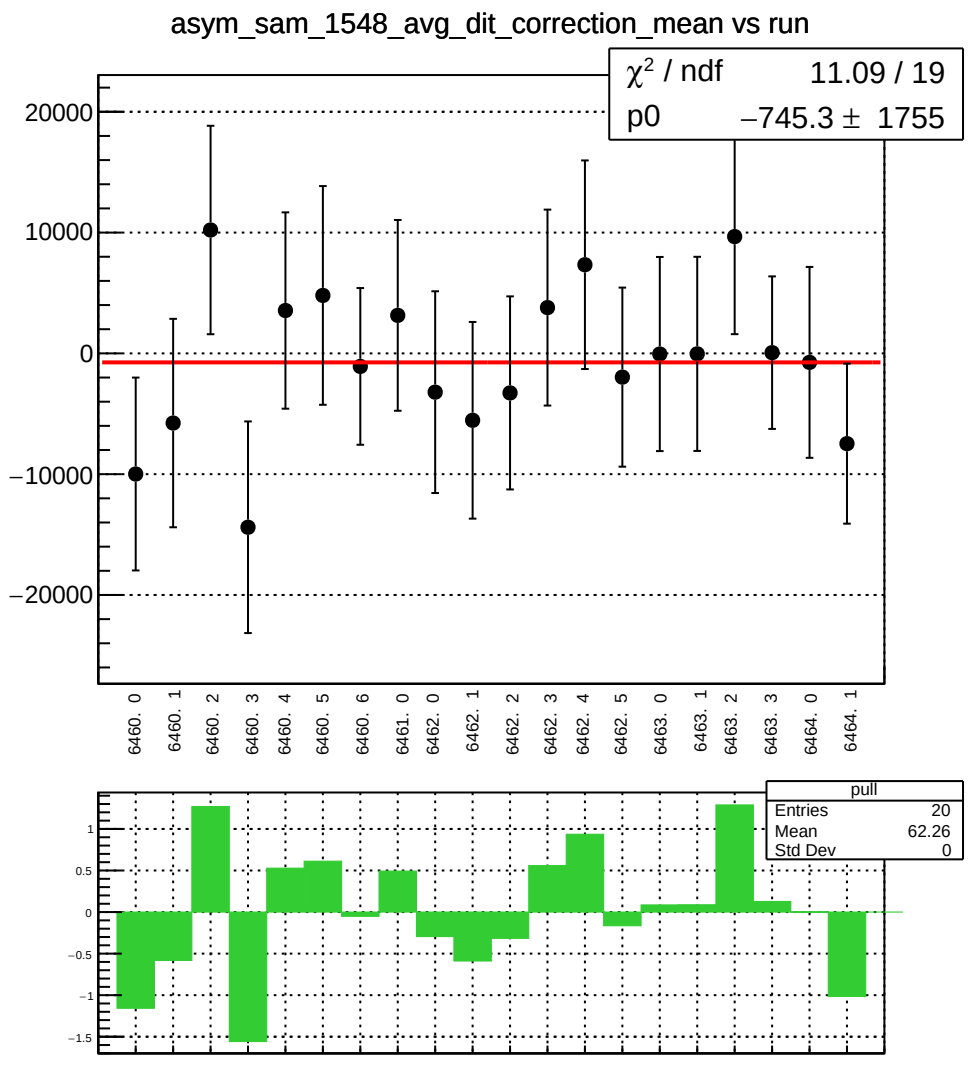

pull1D
Entries 20
Mean 0.01335
Std Dev 0.7368
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

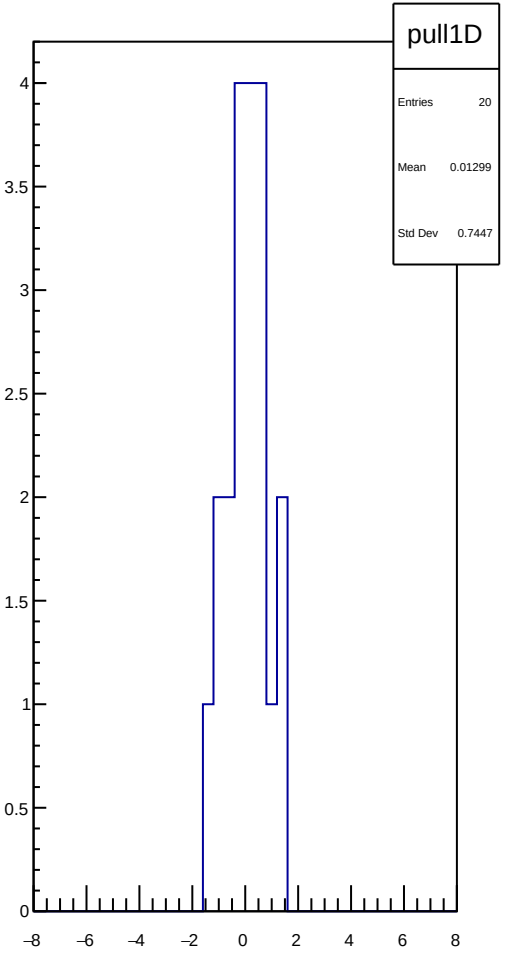

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 707.4 / 19
p0 789.9 ± 1.242
880
860
840
820
800
780
760
740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

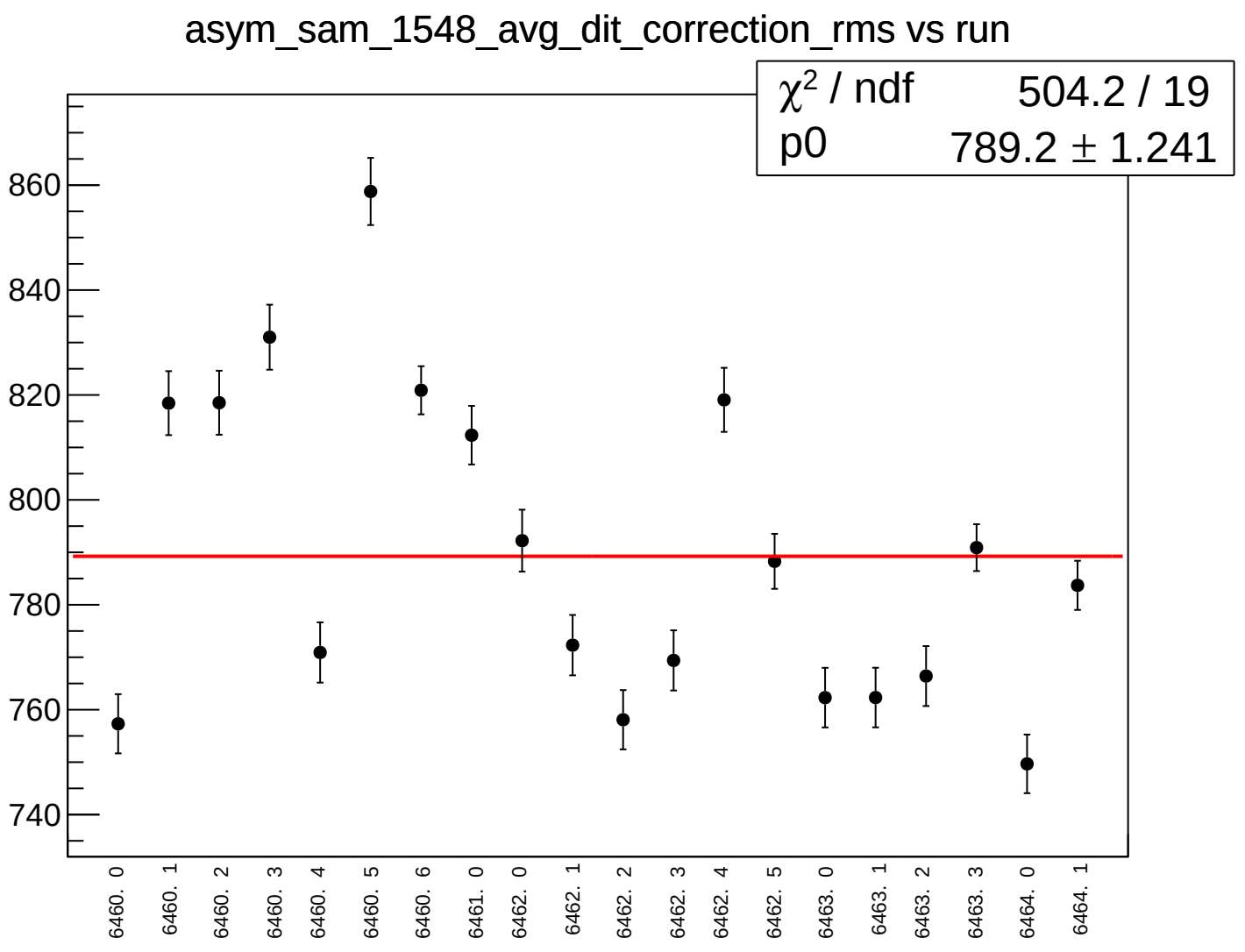

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 16.71 / 19
p0 71.42 ± 195
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −112.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

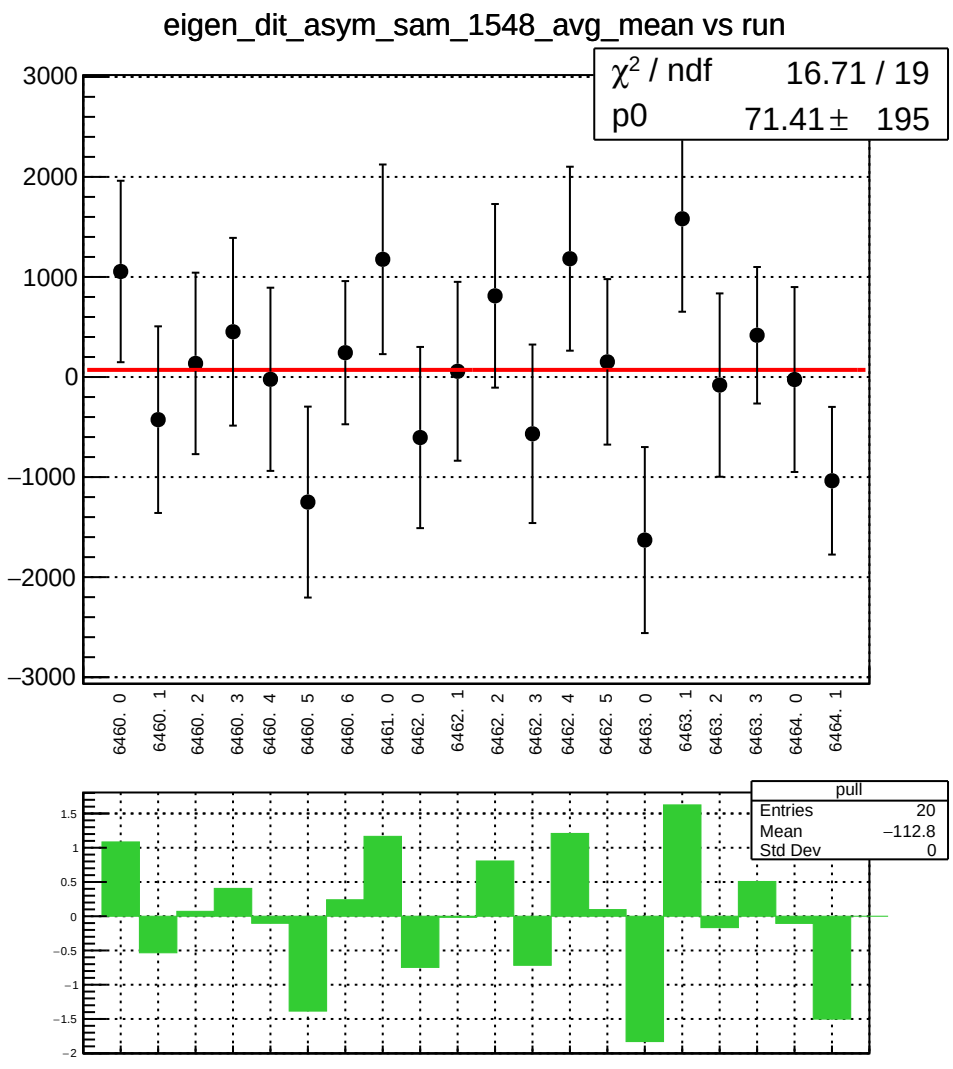

pull1D
Entries 20
Mean 0.005619
Std Dev 0.914
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

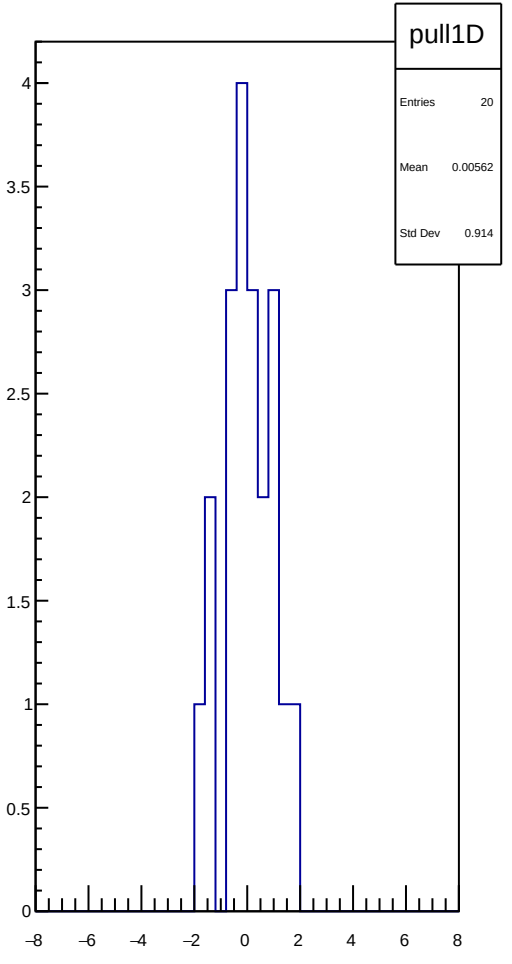

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 362.2 / 19
p0 87.73 ± 0.1379
98
96
94
92
90
88
86
84
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

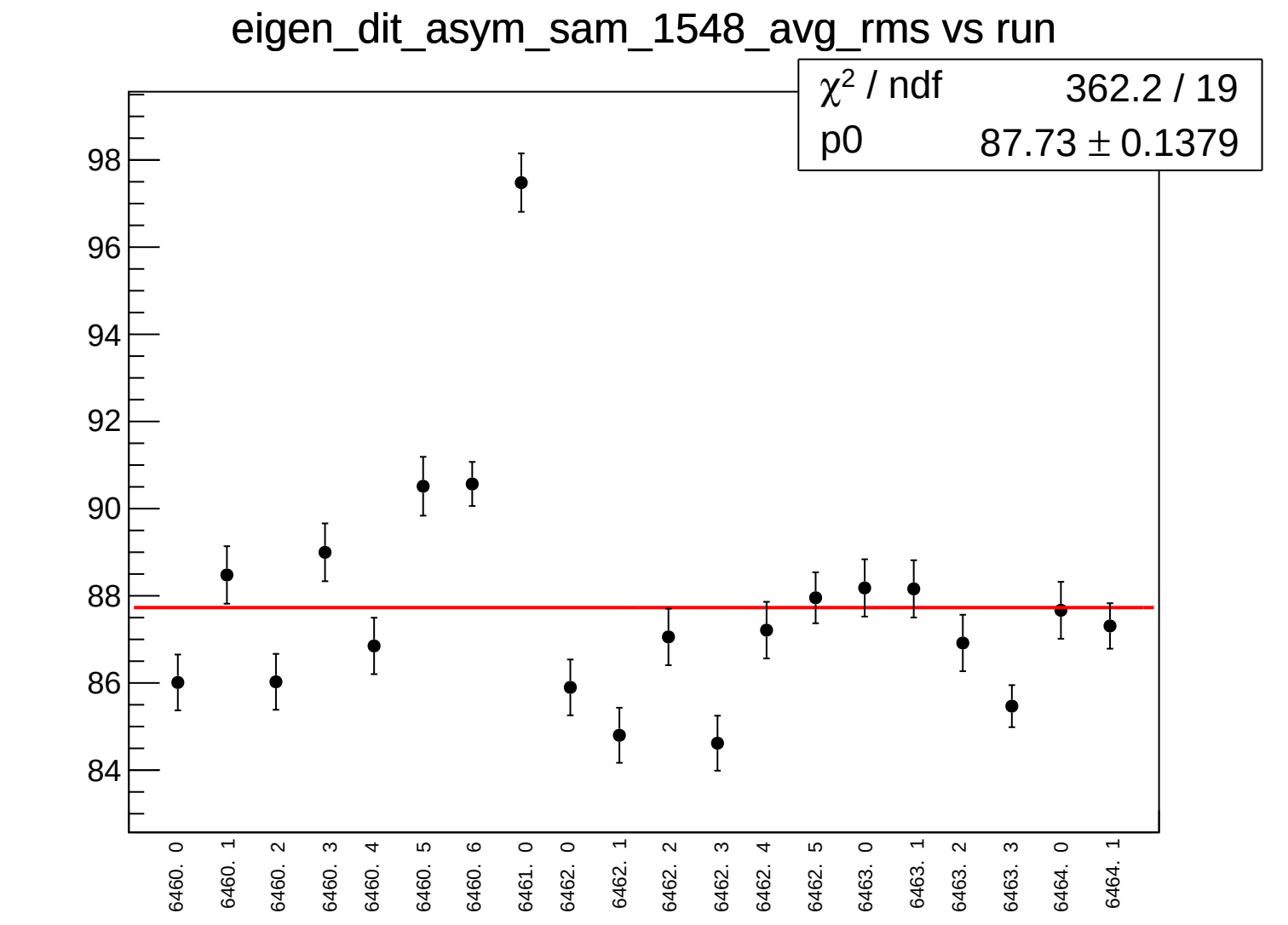

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 11.09 / 19
p0 −745.3 ± 1755
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.26
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

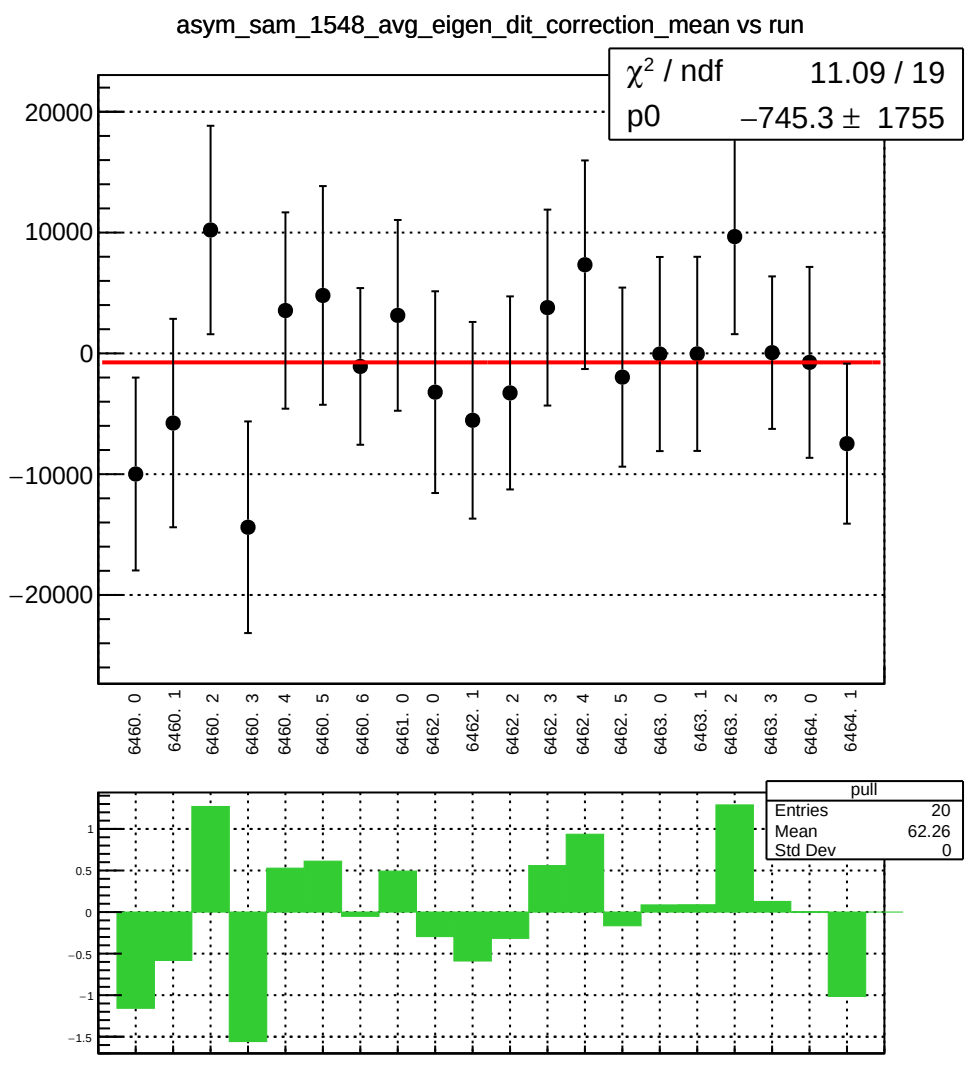

pull1D
Entries 20
Mean 0.01299
Std Dev 0.7447
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

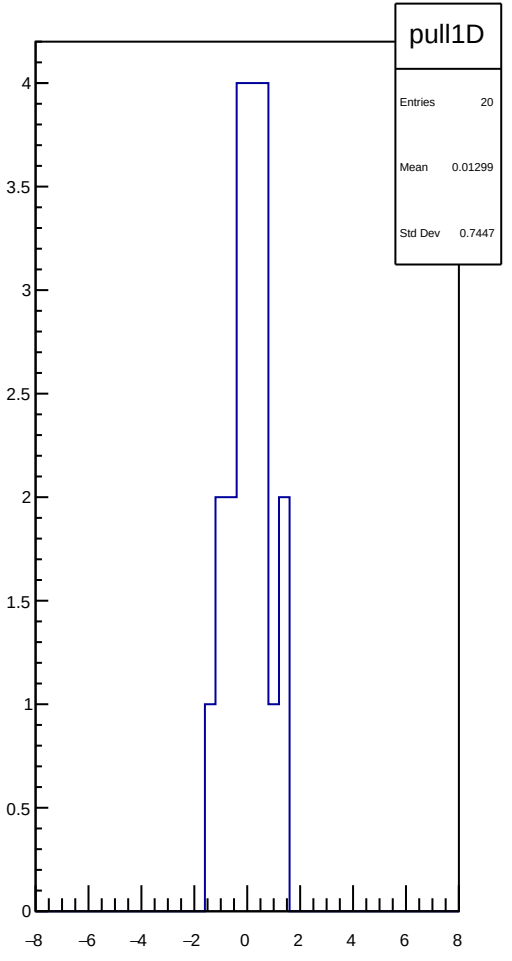

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 504.2 / 19
p0 789.2 ± 1.241
860
840
820
800
780
760
740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

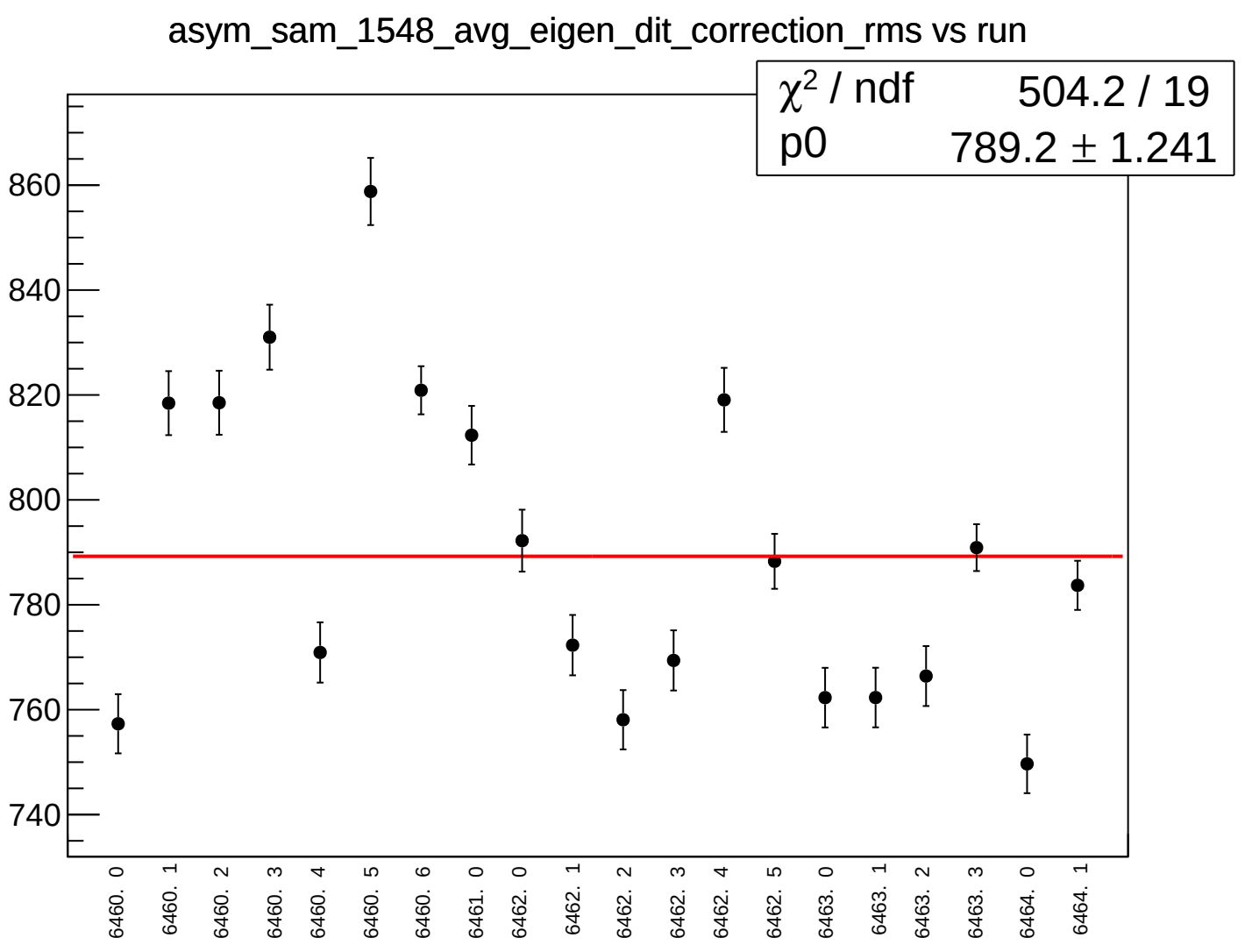

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 16.71 / 19
p0 71.41 ± 195
3000
2000
1000
0
−1000
−2000
−3000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −112.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

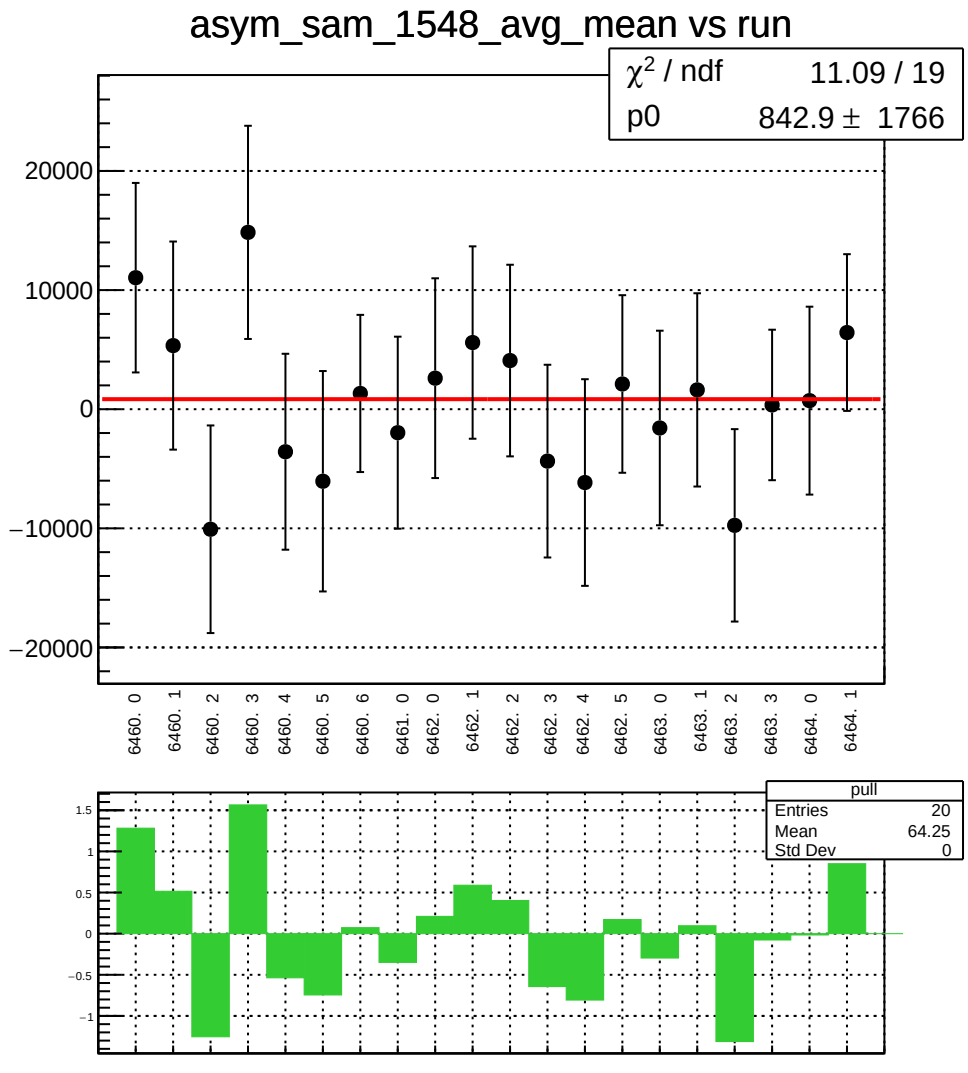

pull1D
Entries 20
Mean 0.00562
Std Dev 0.914
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

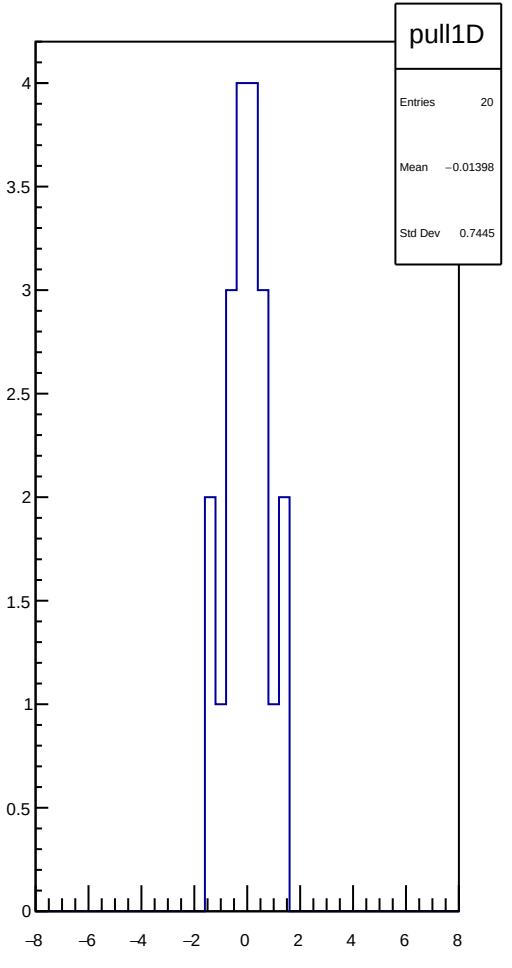

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 362.2 / 19
p0 87.73 ± 0.1379
98
96
94
92
90
88
86
84
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

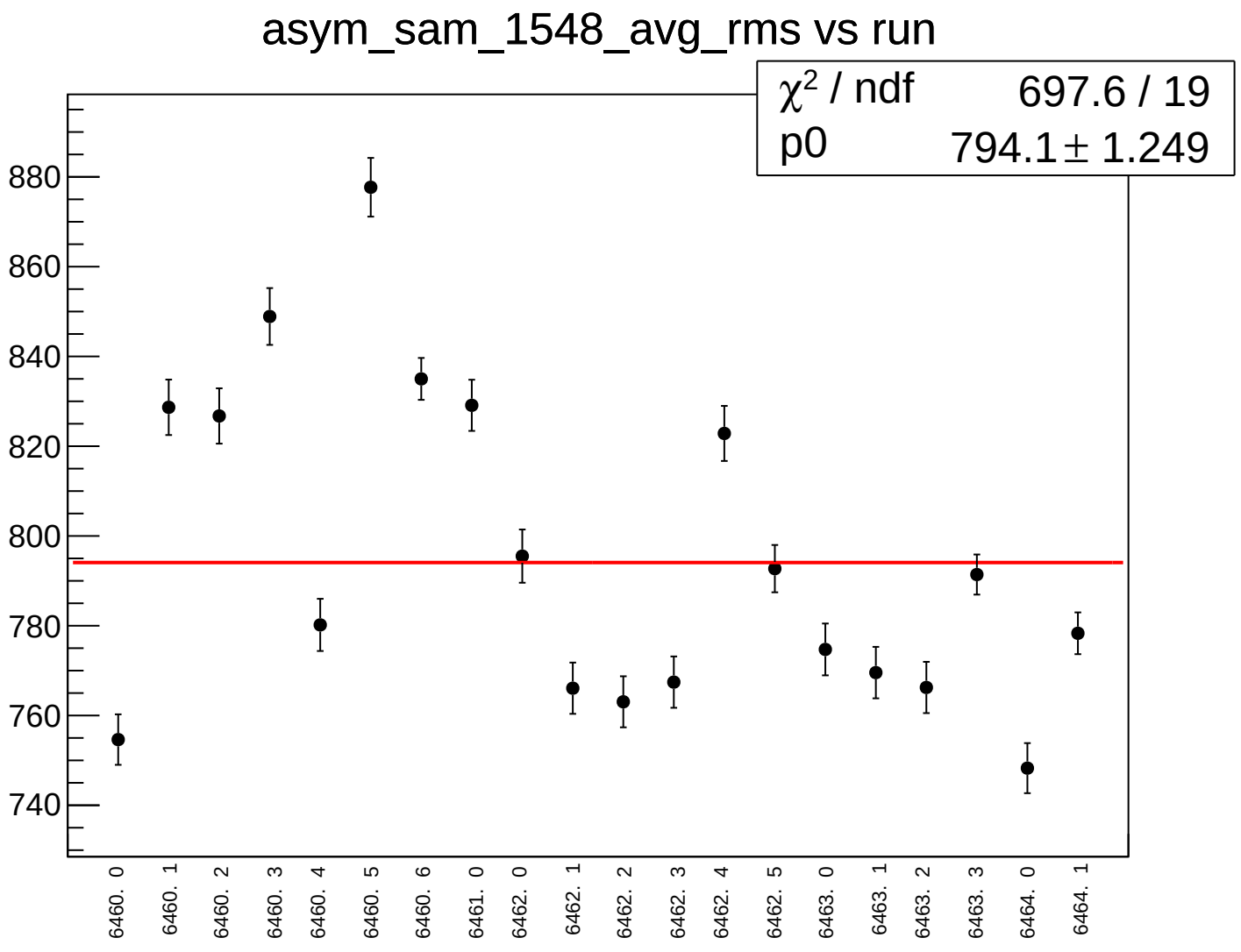

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 11.09 / 19
p0 −745.3 ± 1755
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.26
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

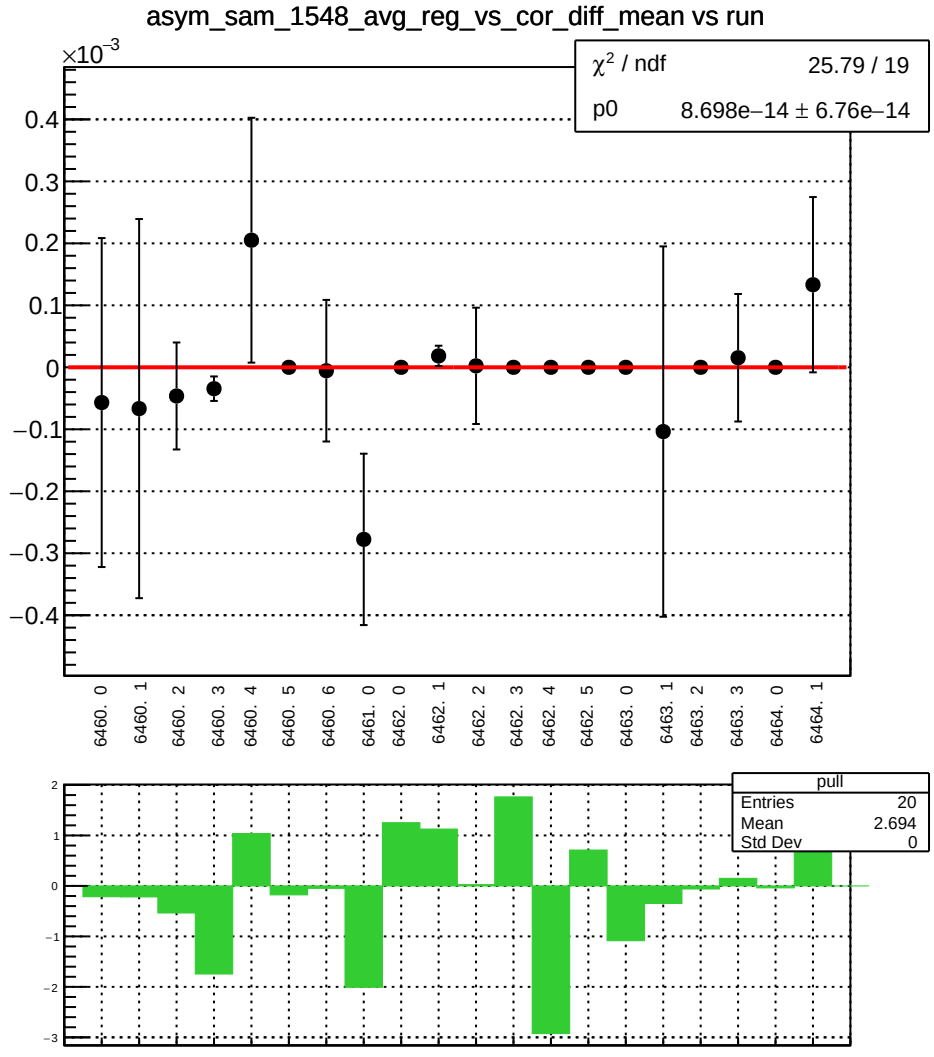

pull1D
Entries 20
Mean 0.01299
Std Dev 0.7447
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

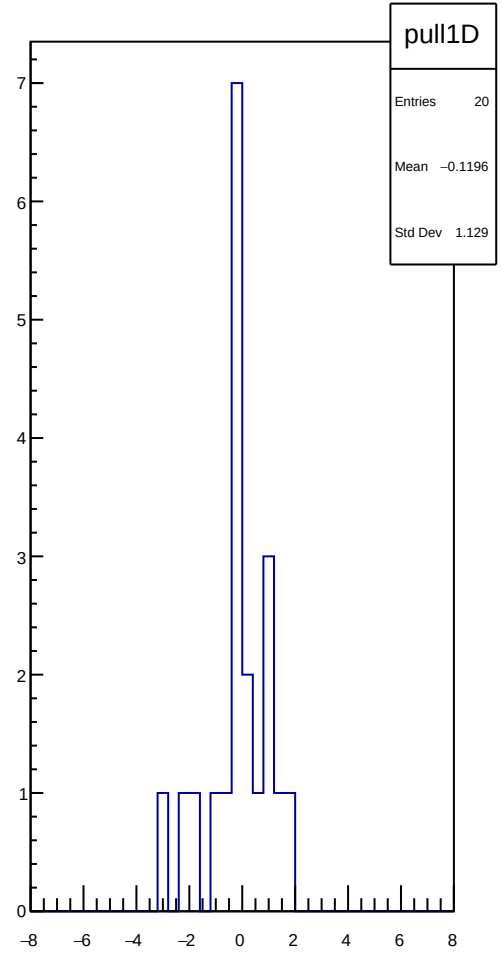

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 504.2 / 19
p0 789.2 ± 1.241
860
840
820
800
780
760
740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

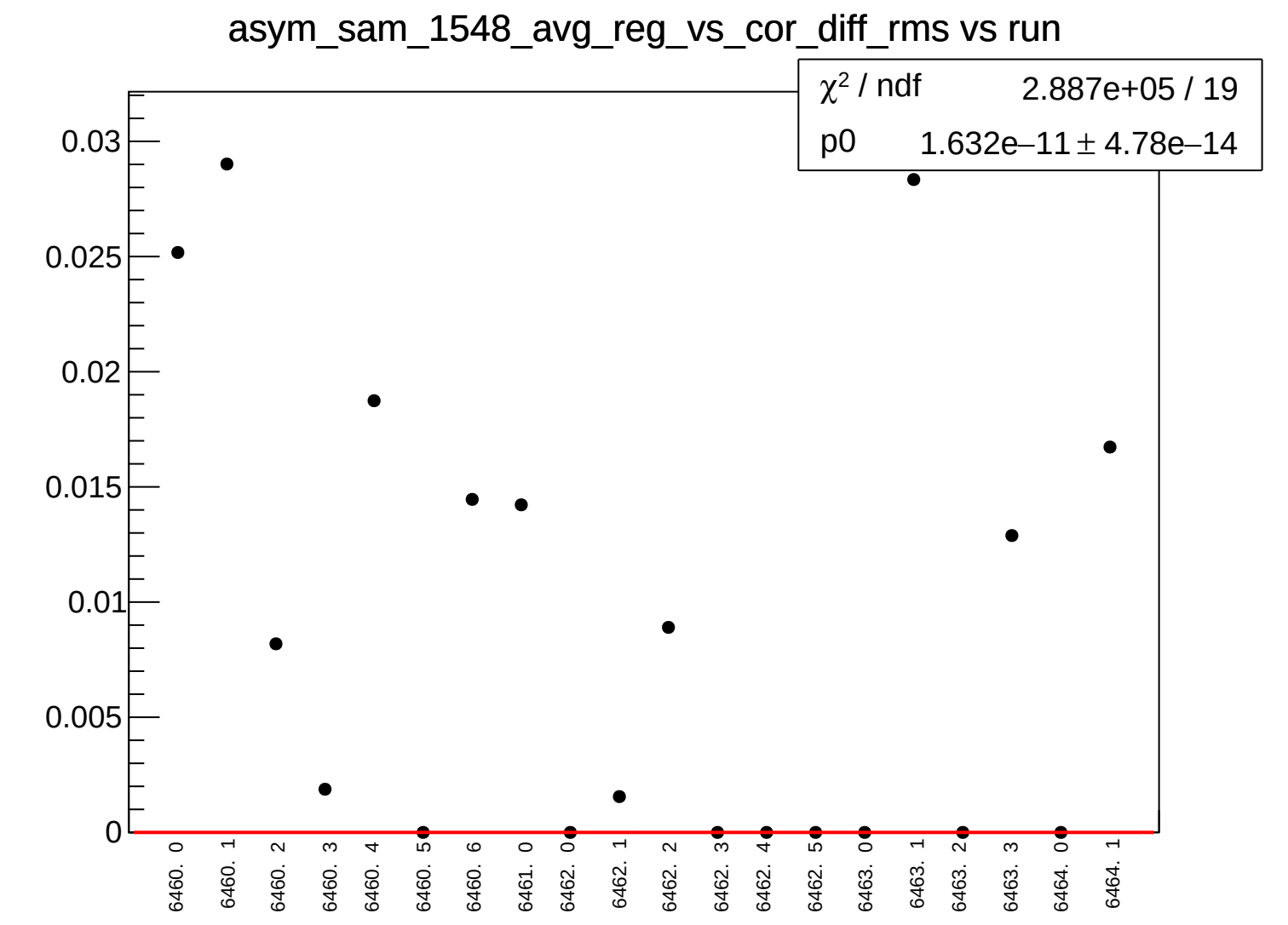

asym_sam_1548_avg_mean vs run
χ² / ndf 11.09 / 19
p0 842.9 ± 1766
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 64.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1

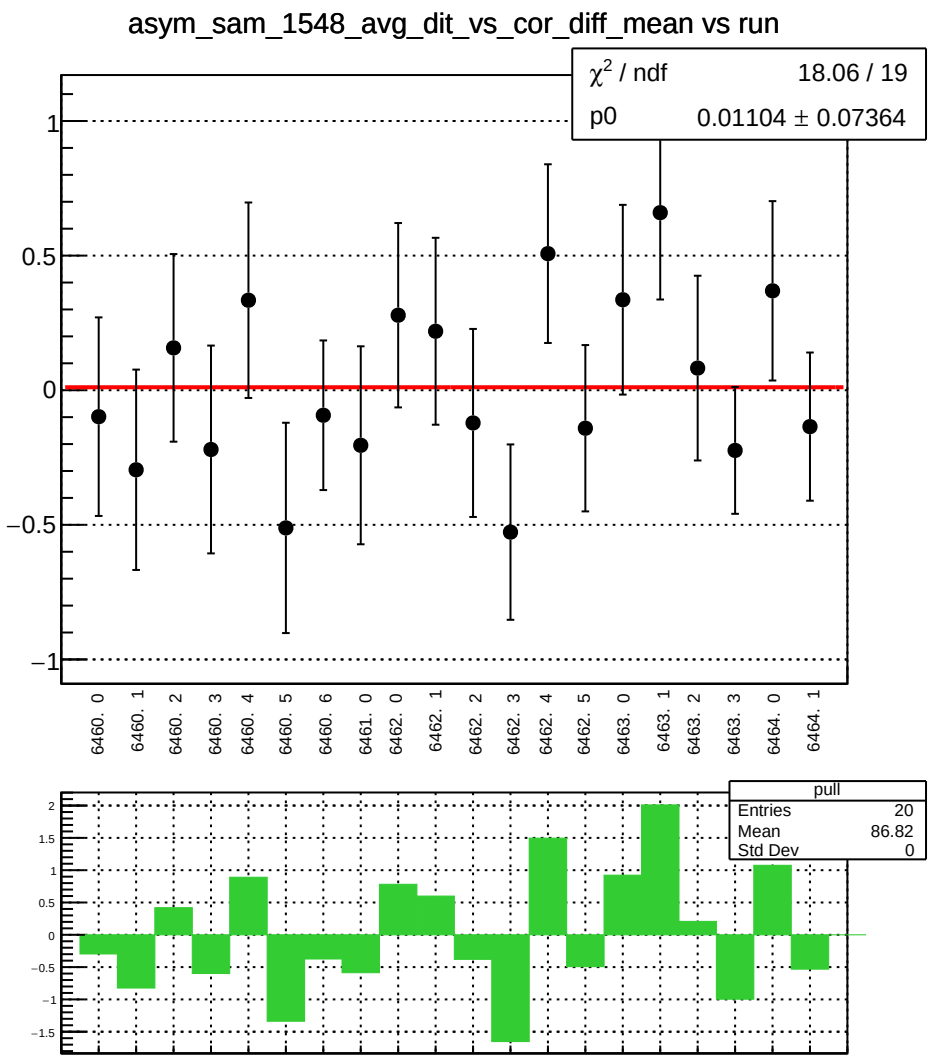

pull1D
Entries 20
Mean −0.01398
Std Dev 0.7445
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

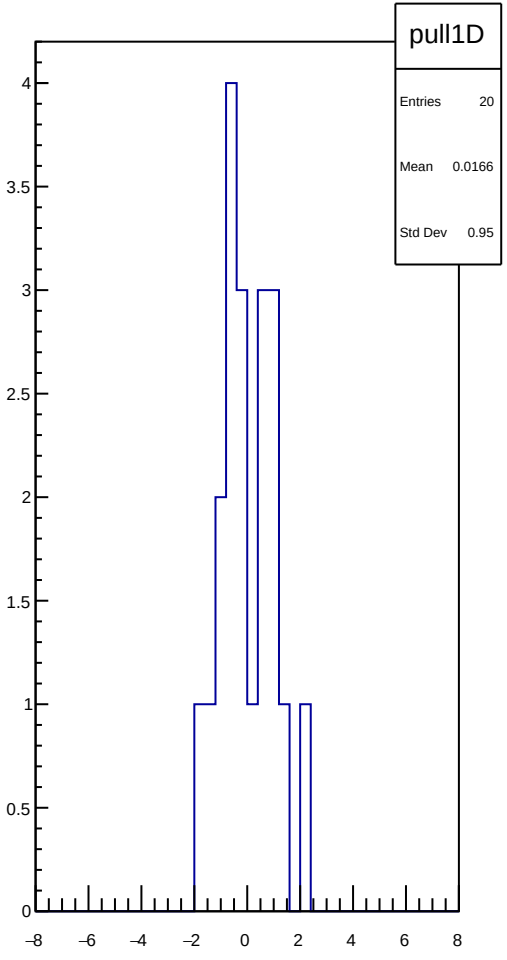

asym_sam_1548_avg_rms vs run
χ² / ndf 697.6 / 19
p0 794.1 ± 1.249
880
860
840
820
800
780
760
740
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

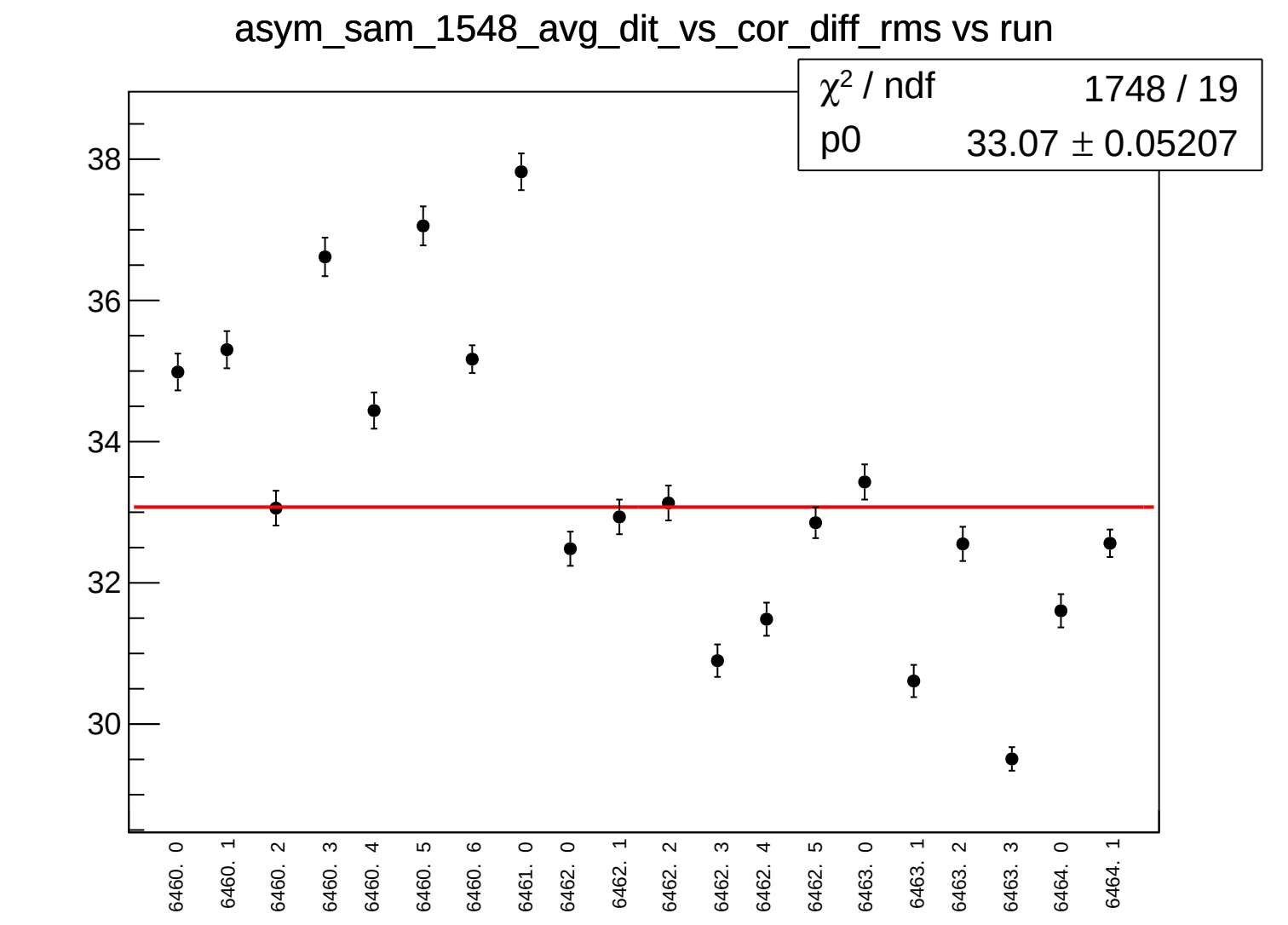

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 25.79 / 19
p0 8.698e−14 ± 6.76e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.694
Std Dev 0
2
1
0
−1
−2
−3

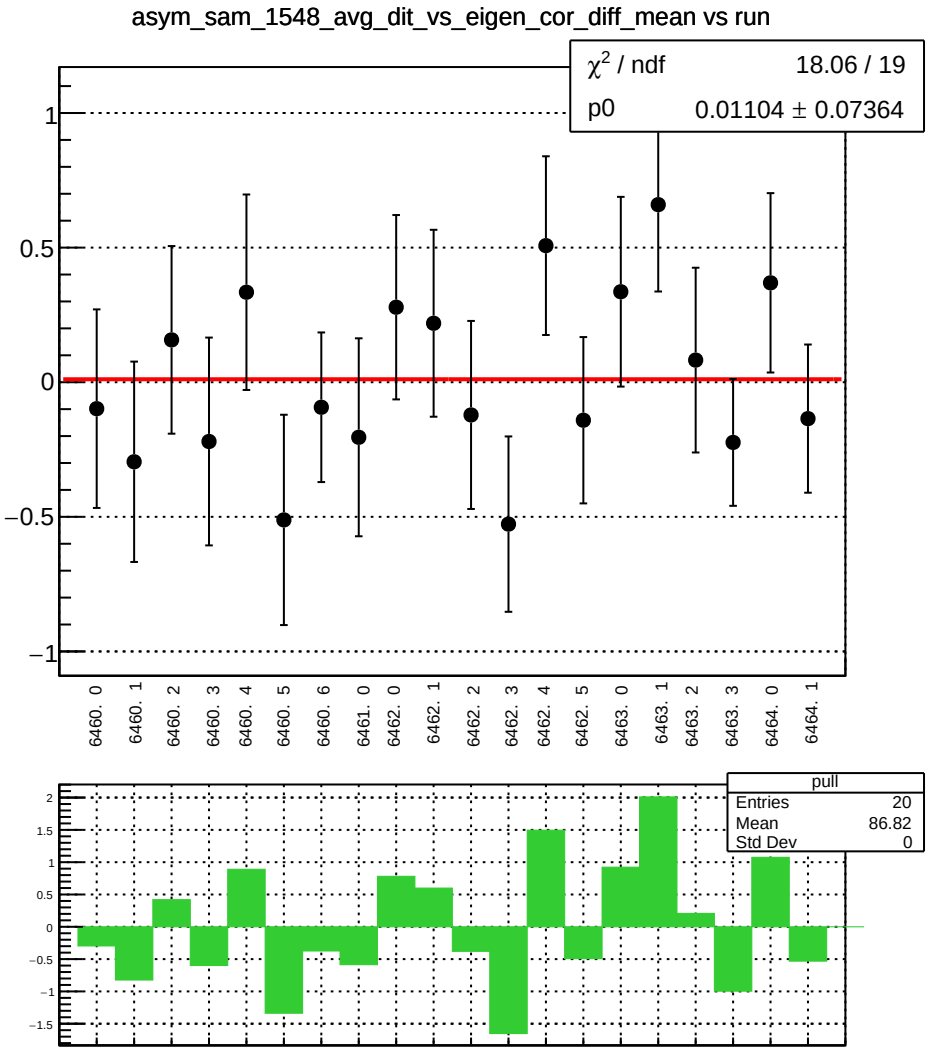

pull1D
Entries 20
Mean −0.1196
Std Dev 1.129
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

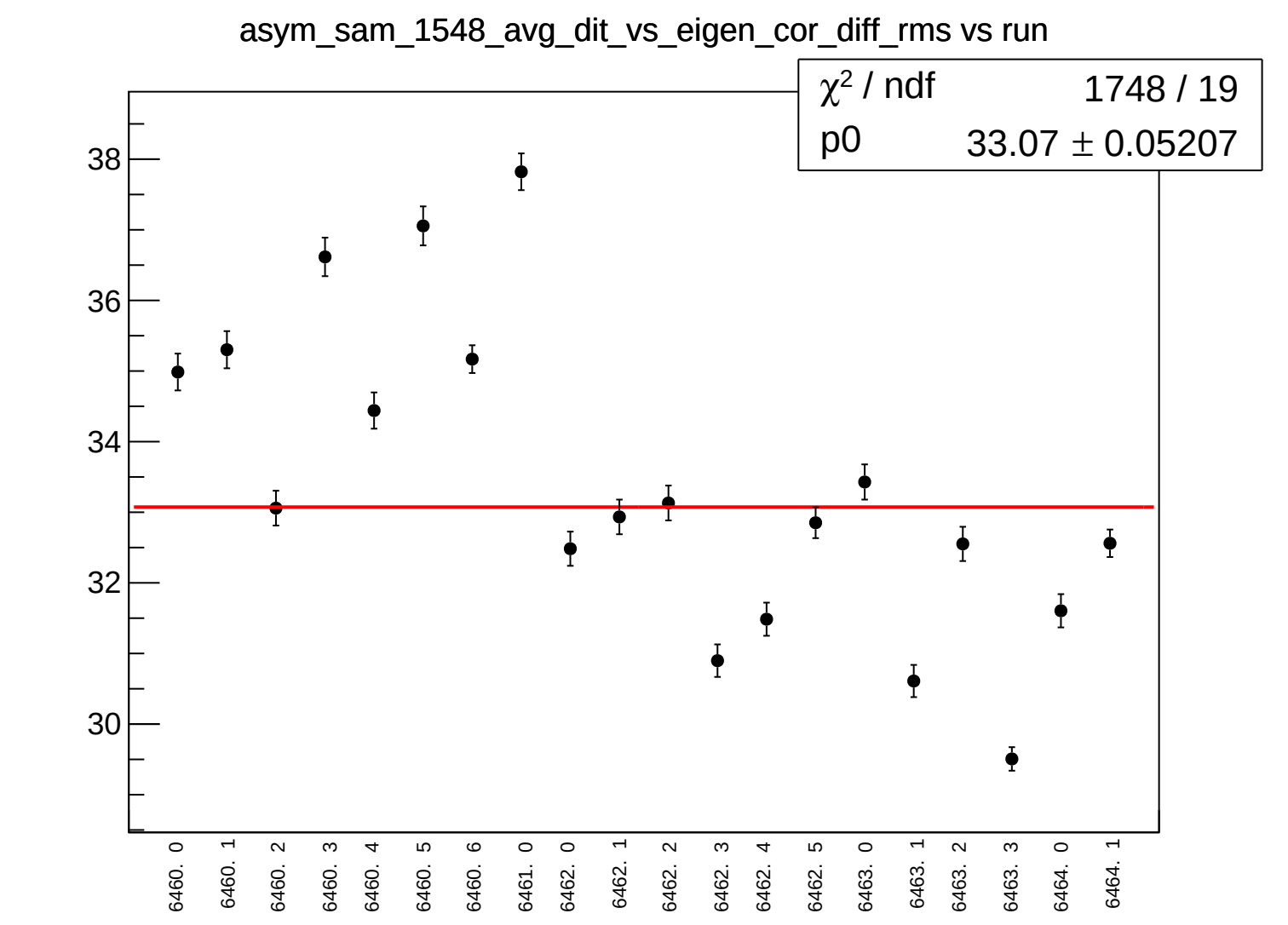

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.887e+05 / 19
p0 1.632e−11 ± 4.78e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

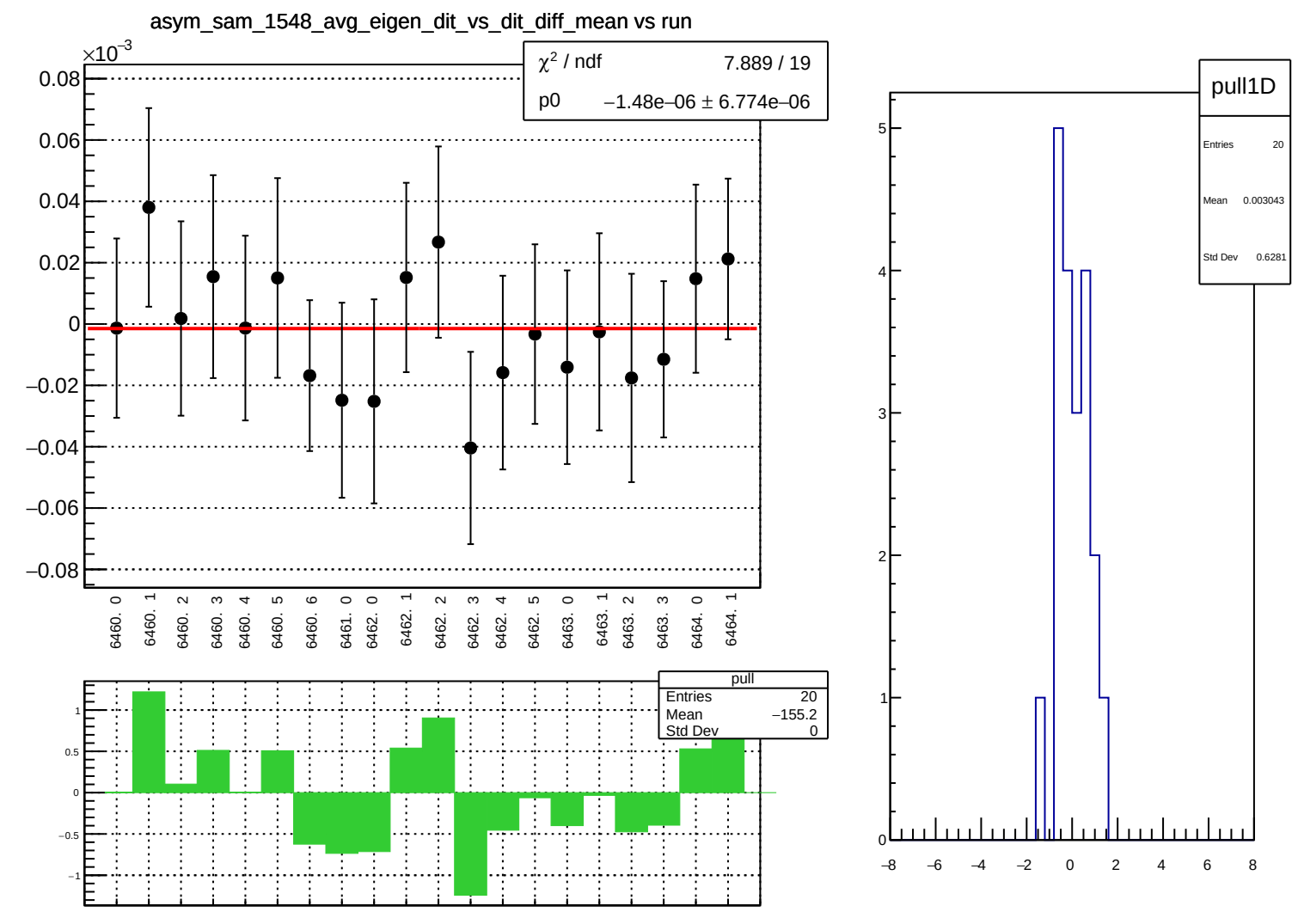

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 18.06 / 19
p0 0.01104 ± 0.07364
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

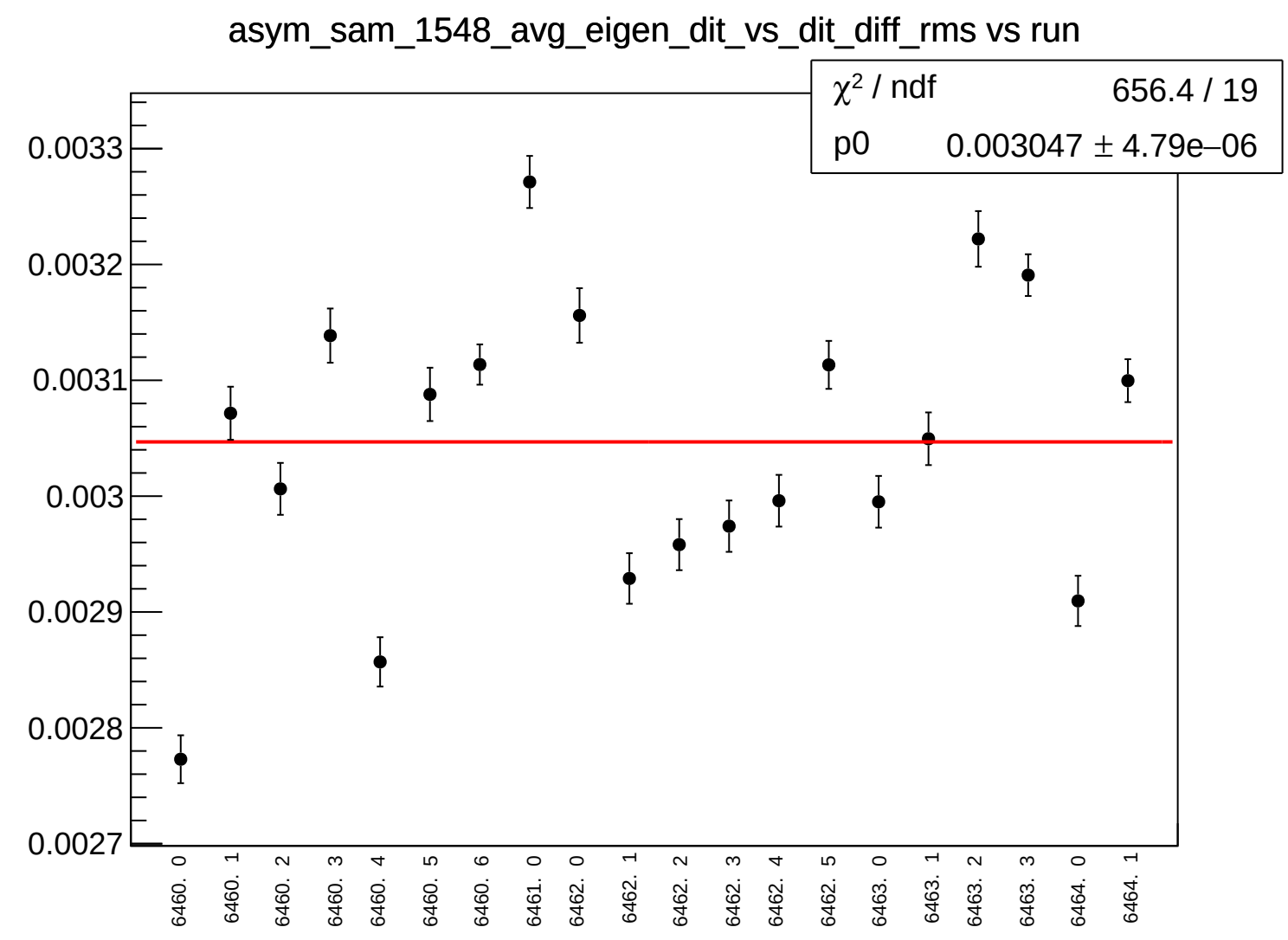

pull1D
Entries 20
Mean 0.0166
Std Dev 0.95
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

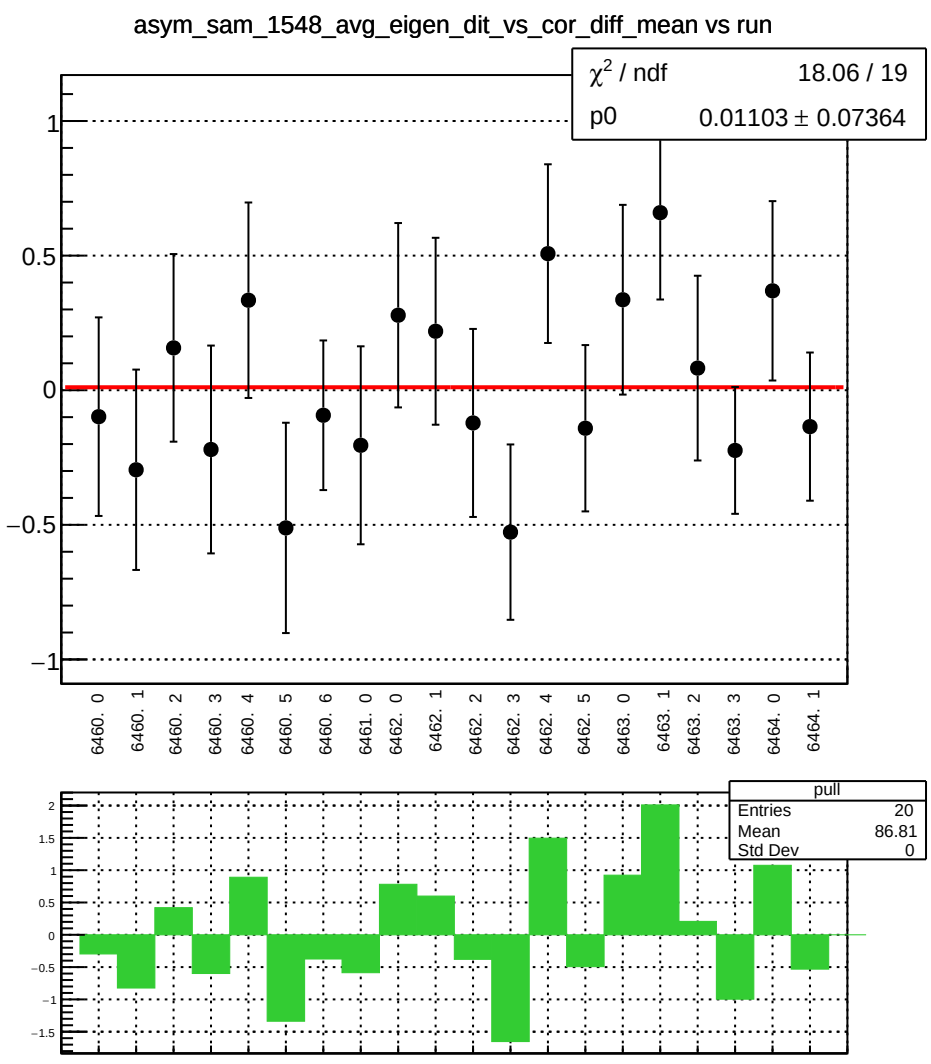

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1748 / 19
p0 33.07 ± 0.05207
38
36
34
32
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

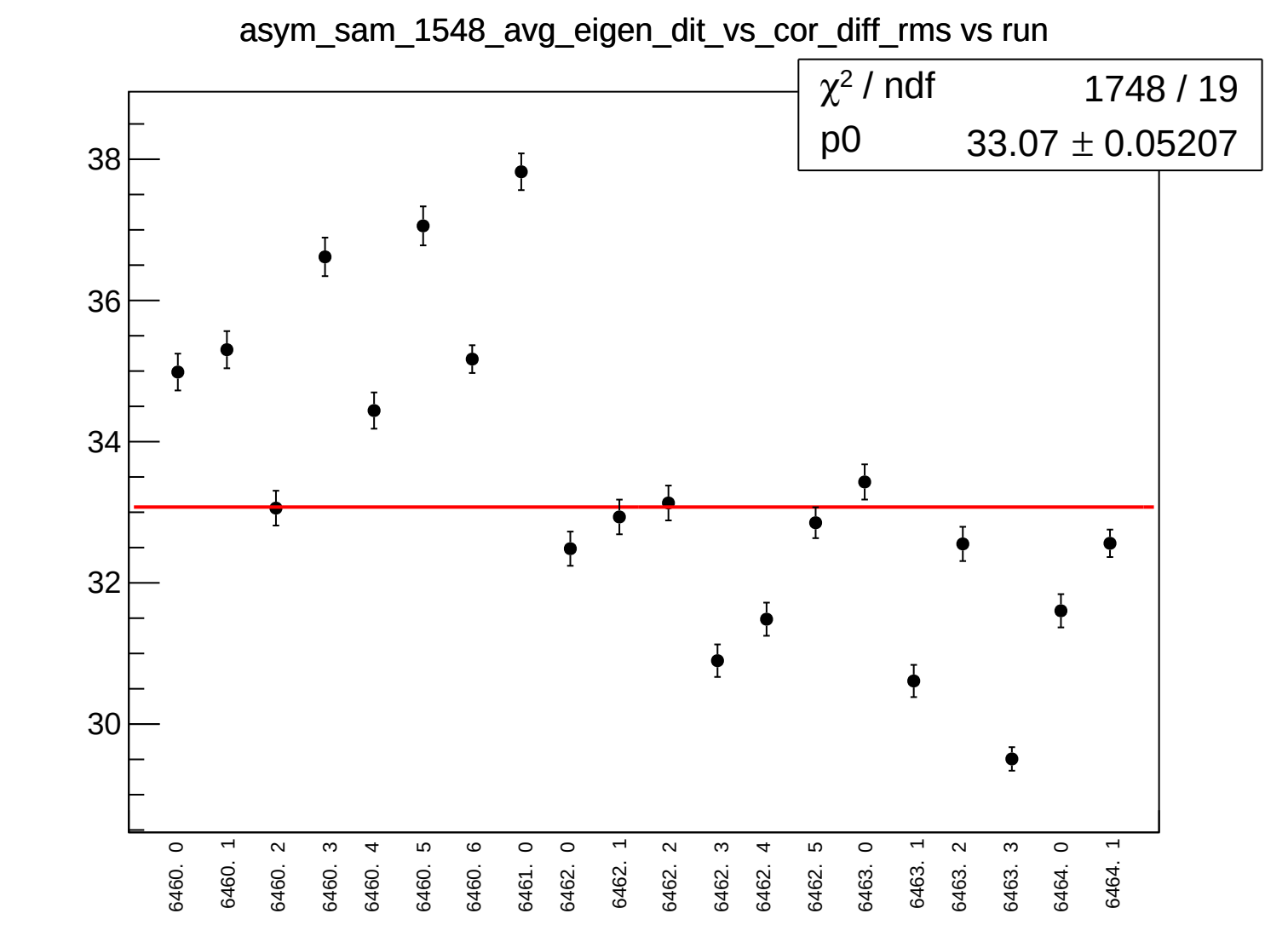

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.06 / 19
p0 0.01104 ± 0.07364
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0166
Std Dev 0.95
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

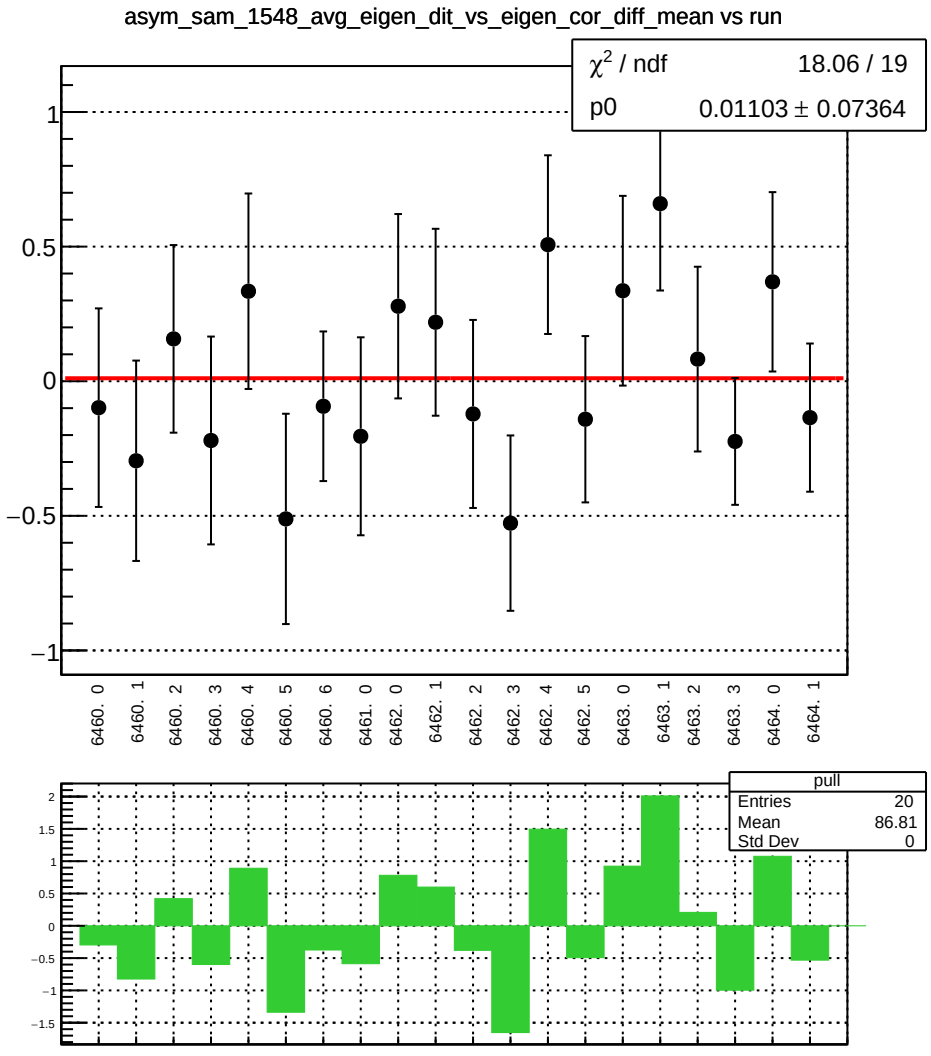

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1748 / 19
p0 33.07 ± 0.05207
38
36
34
32
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

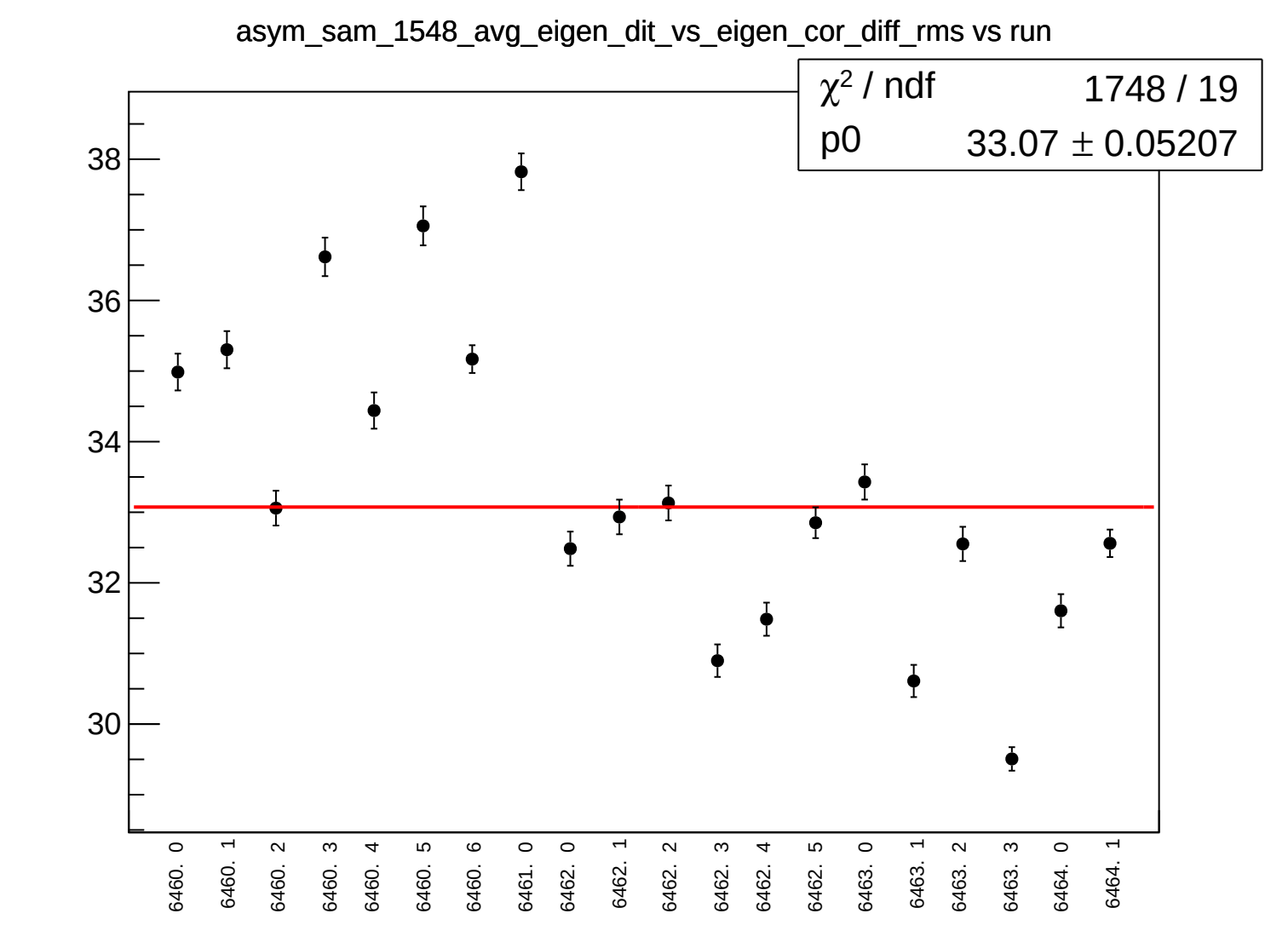

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 7.889 / 19
p0 −1.48e−06 ± 6.774e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −155.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.003043
Std Dev 0.6281
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

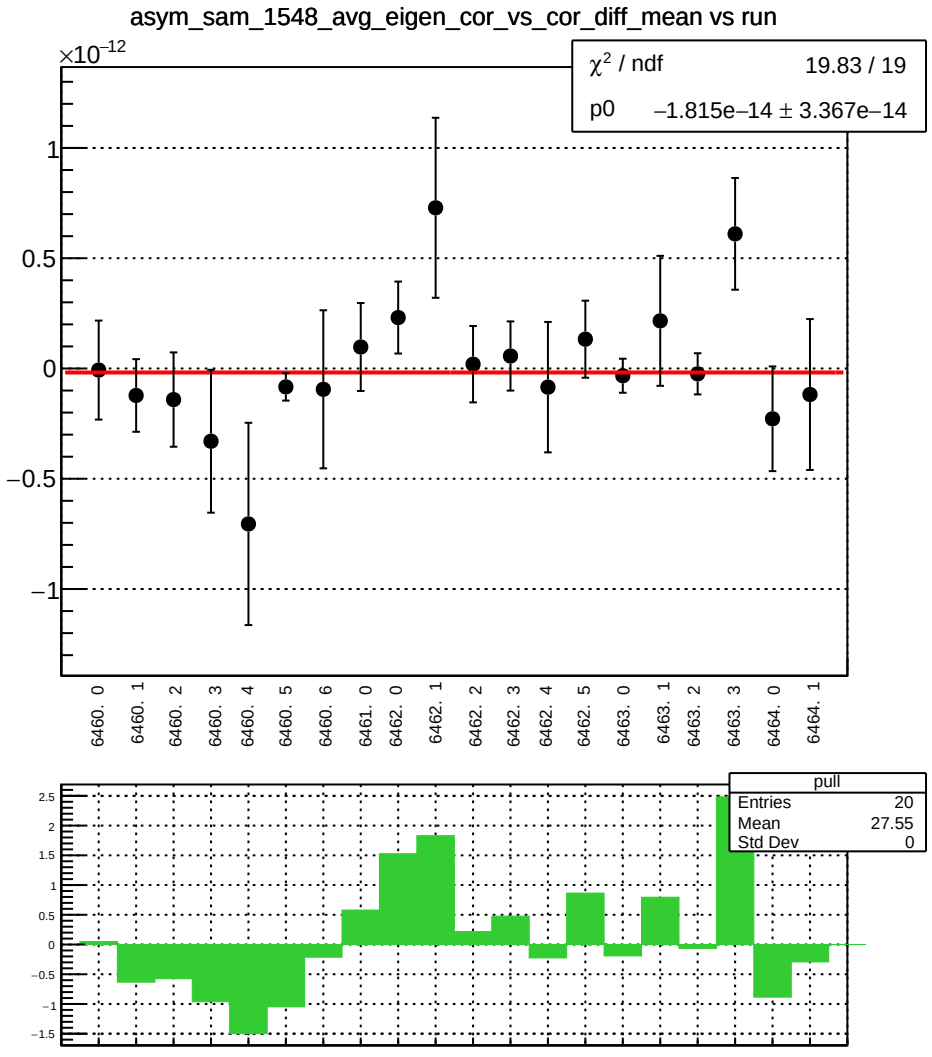

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 656.4 / 19
p0 0.003047 ± 4.79e–06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

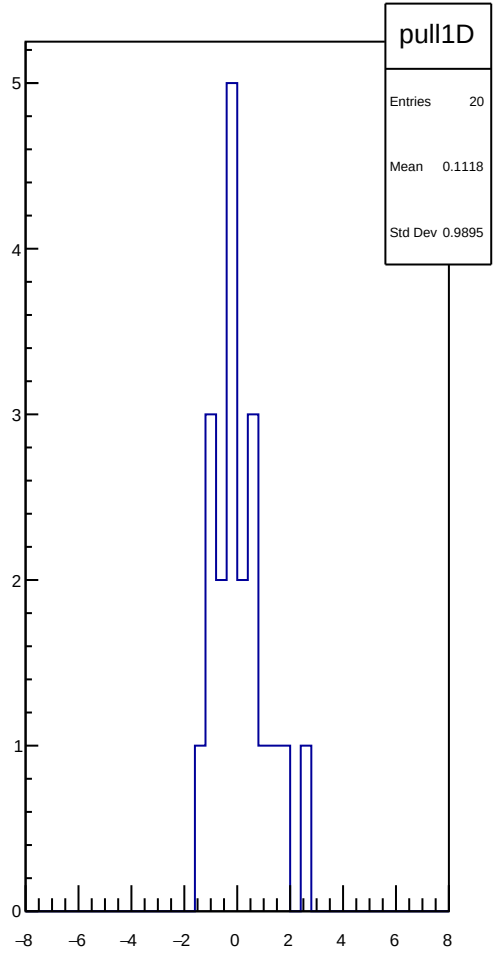

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.06 / 19
p0 0.01103 ± 0.07364
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01661
Std Dev 0.95
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

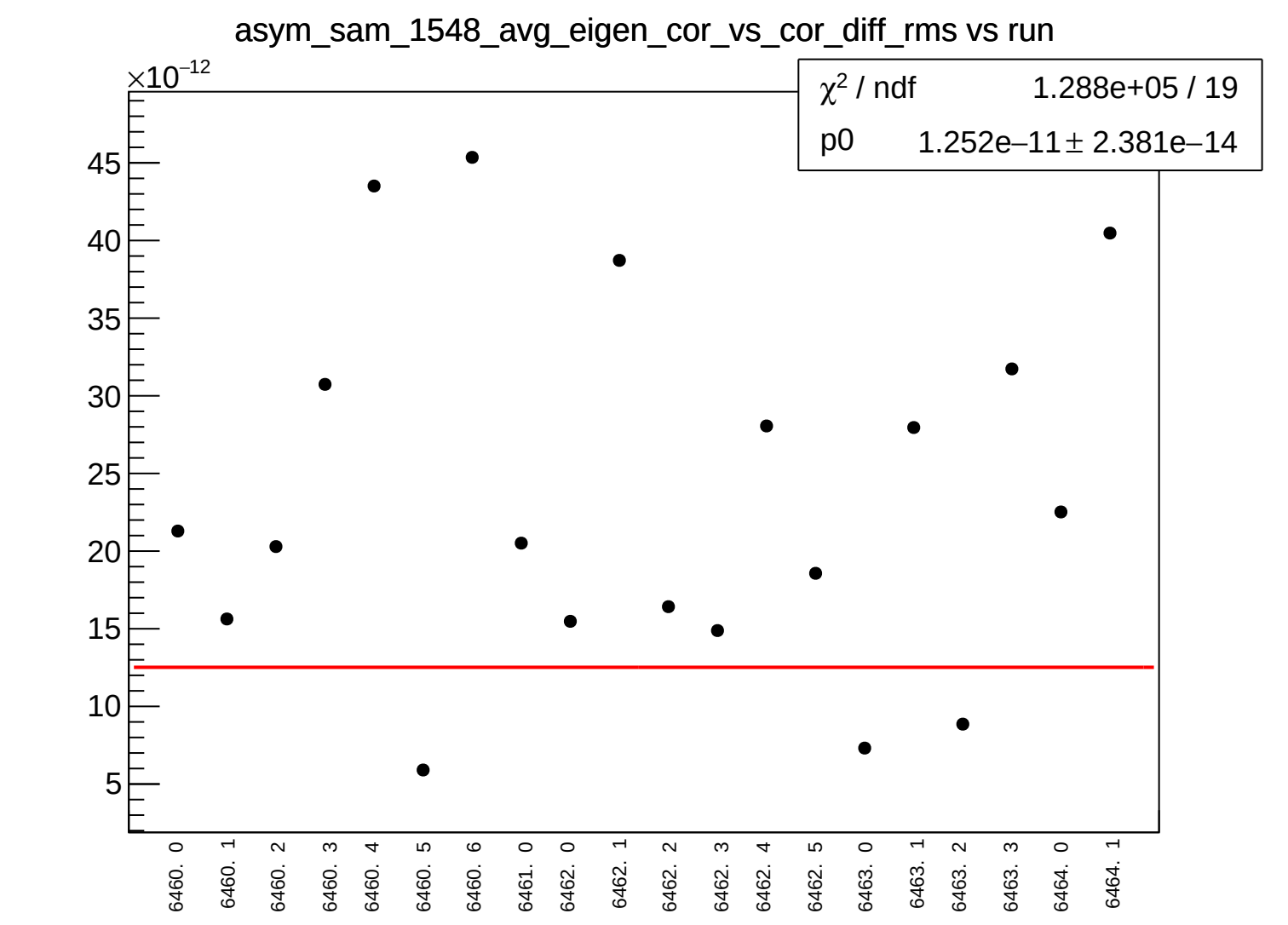

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1748 / 19
p0 33.07 ± 0.05207
38
36
34
32
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

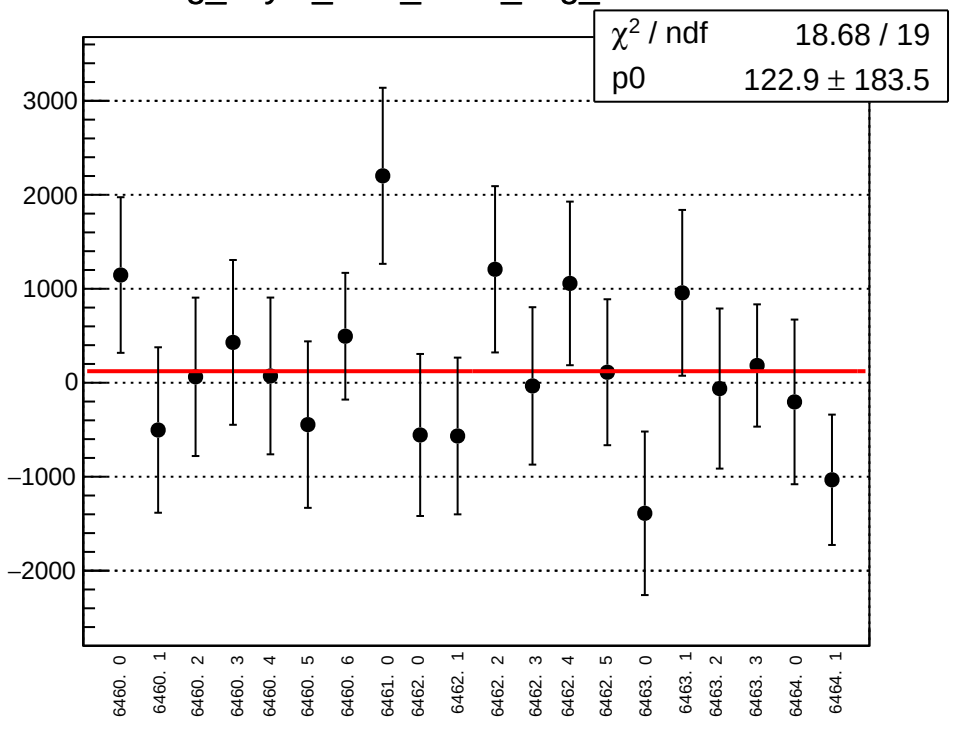

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.06 / 19
p0 0.01103 ± 0.07364
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 86.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01661
Std Dev 0.95
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

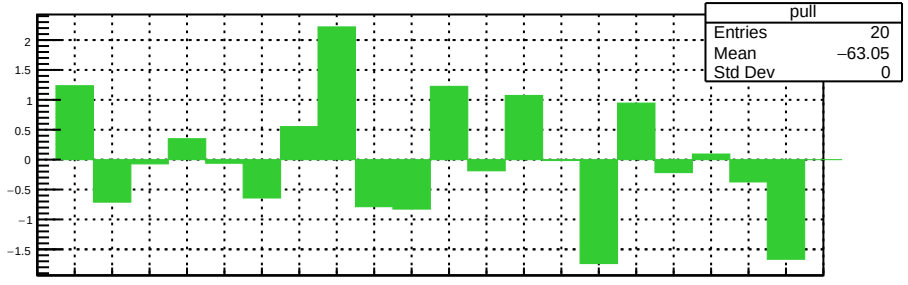

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1748 / 19
p0 33.07 ± 0.05207
38
36
34
32
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

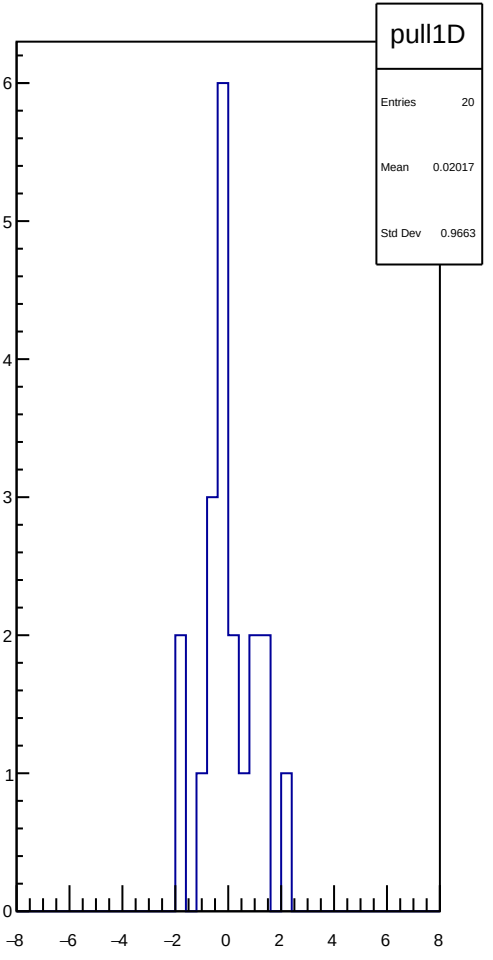

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.83 / 19
p0 −1.815e−14 ± 3.367e−14
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

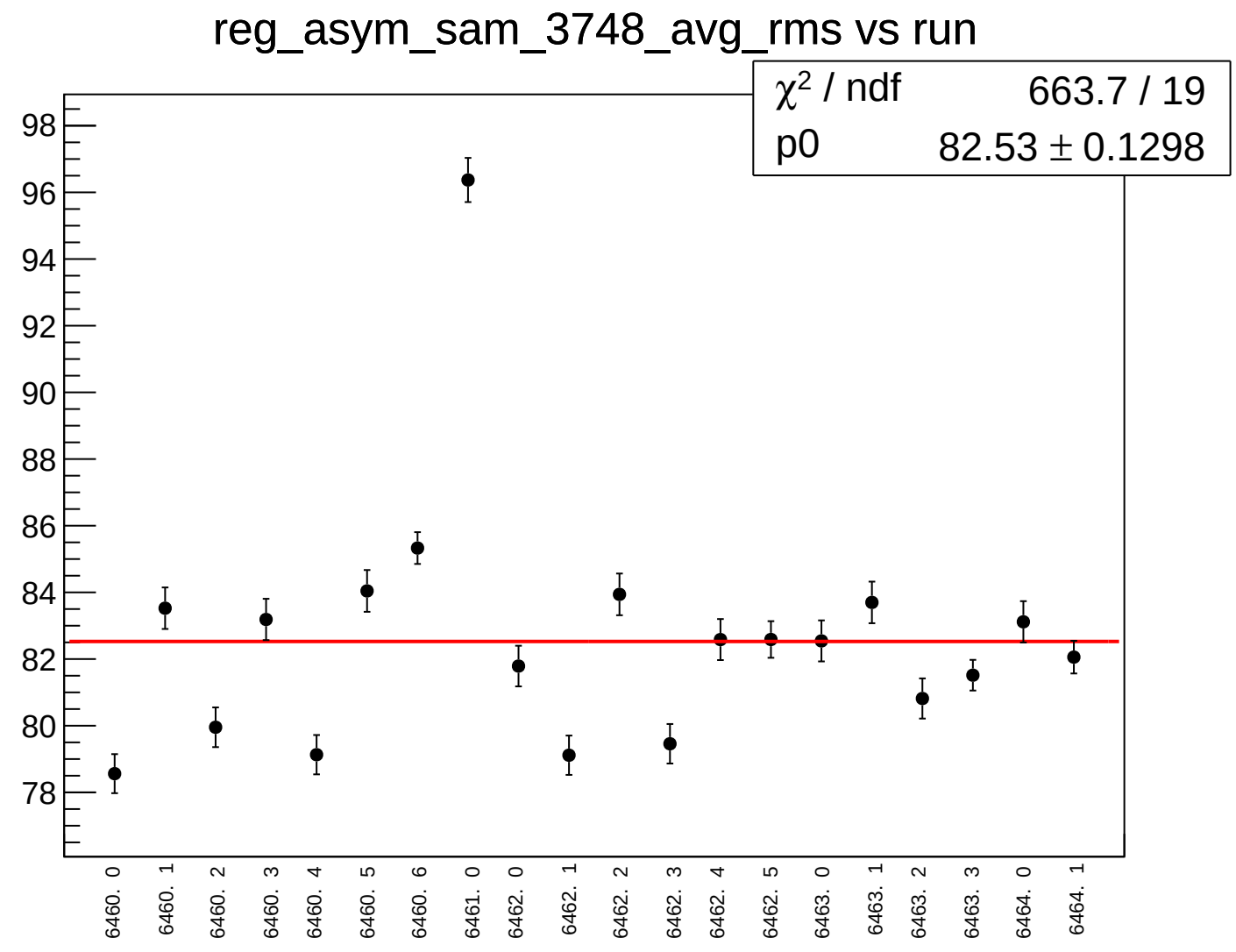

pull1D
Entries 20
Mean 0.1118
Std Dev 0.9895
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

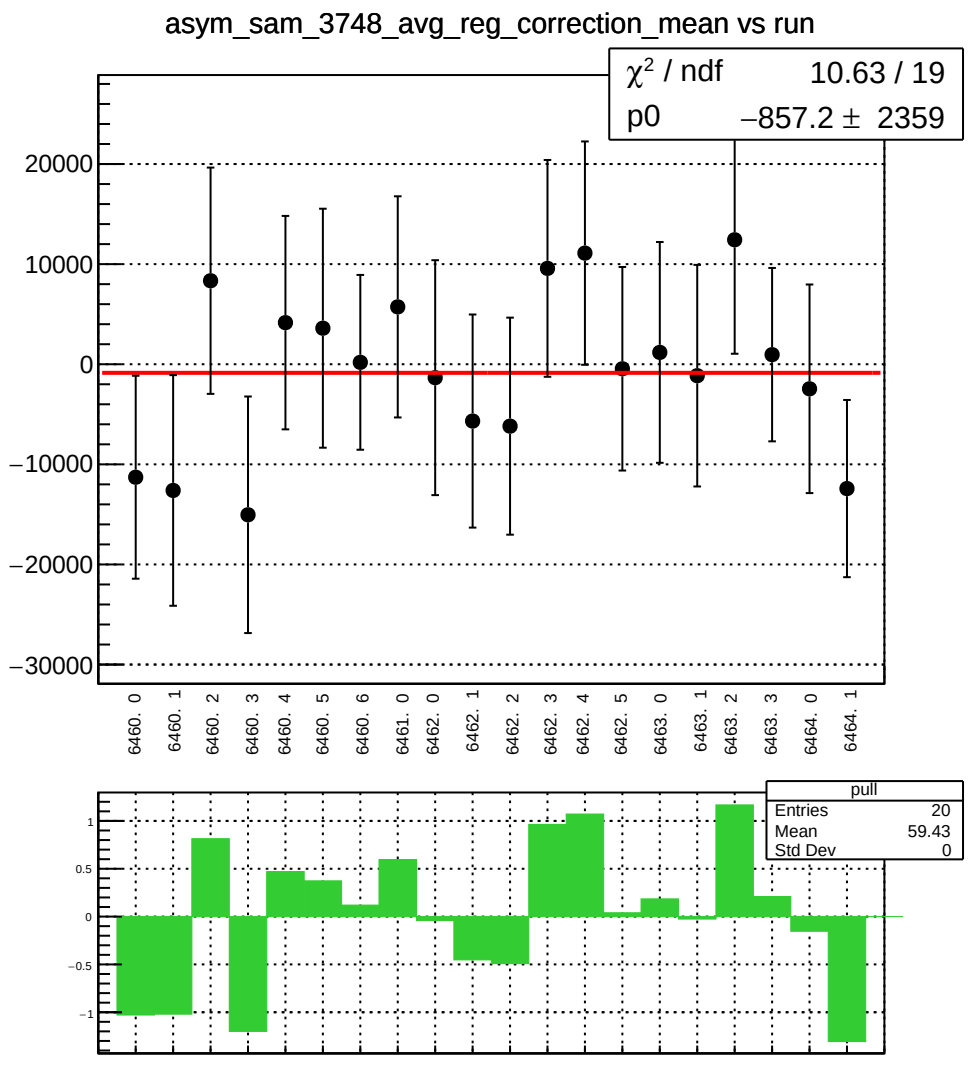

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.288e+05 / 19
p0 1.252e−11 ± 2.381e−14
45
40
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

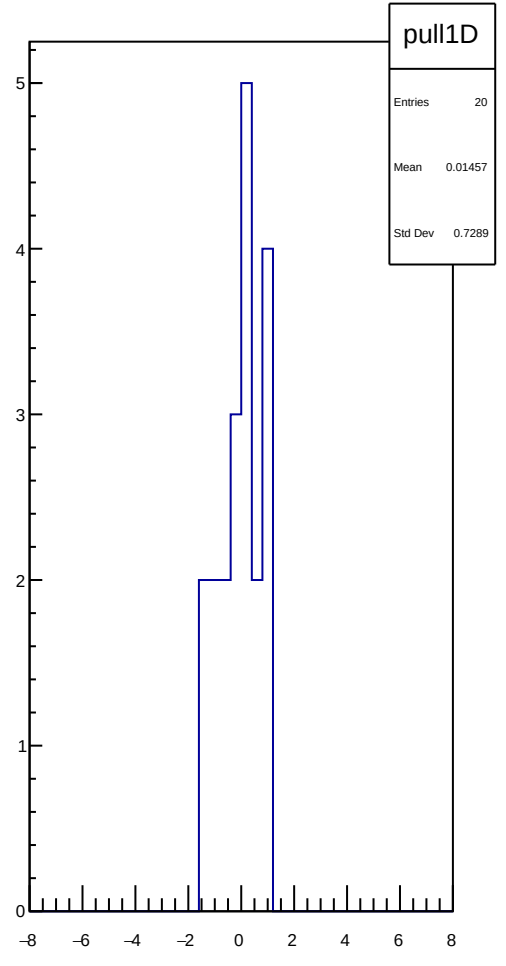

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 18.68 / 19
p0 122.9 ± 183.5
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

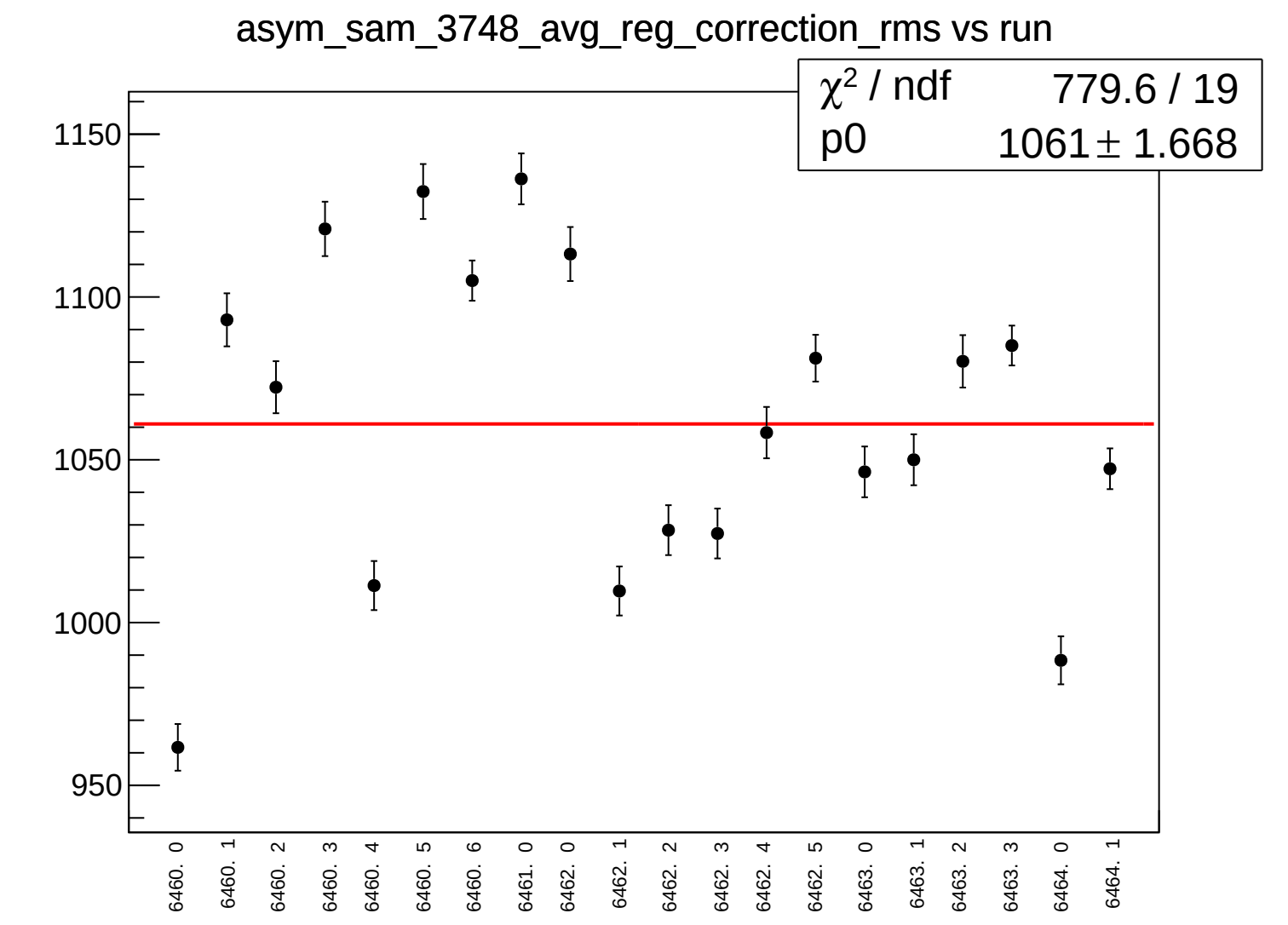

pull
Entries 20
Mean −63.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

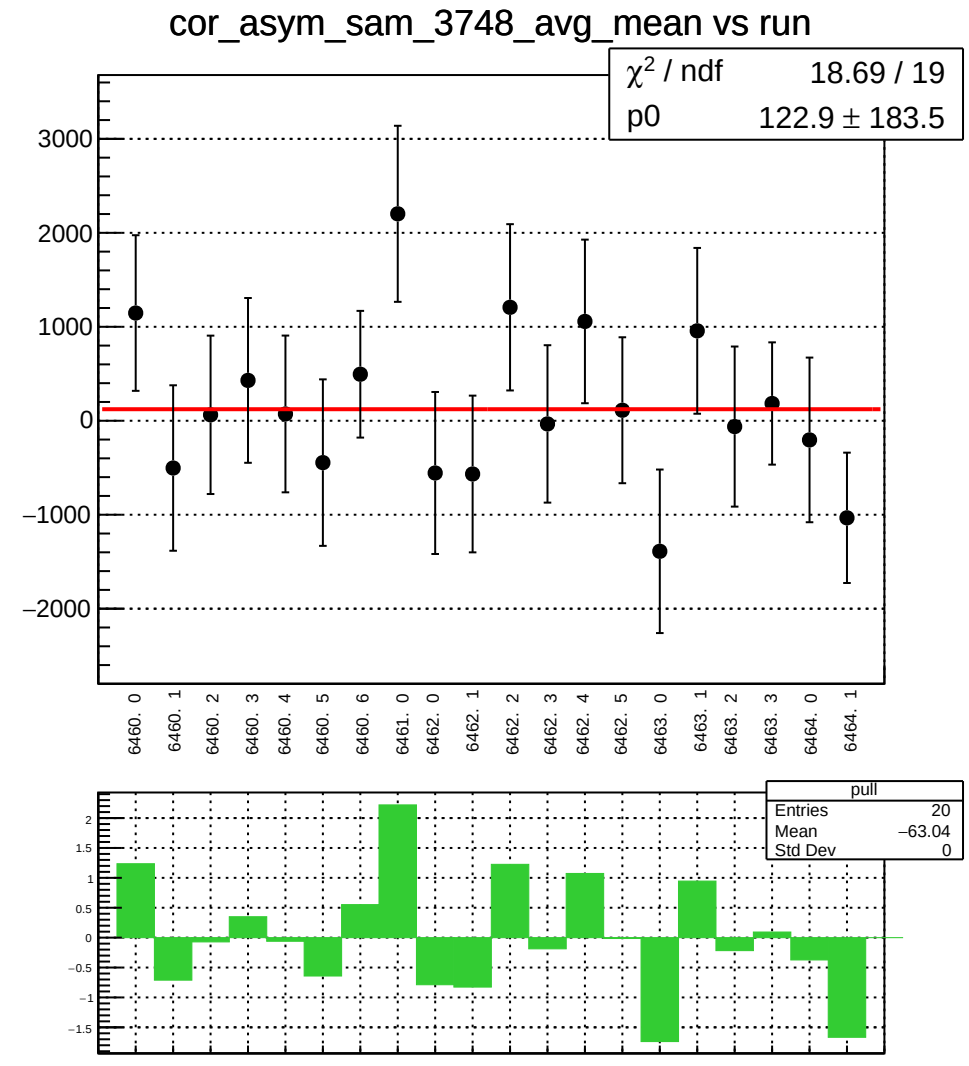

pull1D
Entries 20
Mean 0.02017
Std Dev 0.9663
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

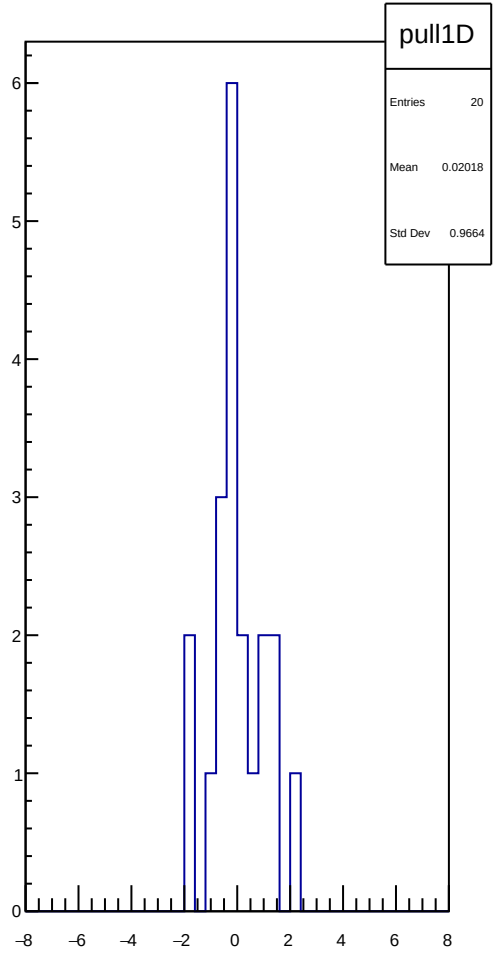

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 663.7 / 19
p0 82.53 ± 0.1298
98
96
94
92
90
88
86
84
82
80
78
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

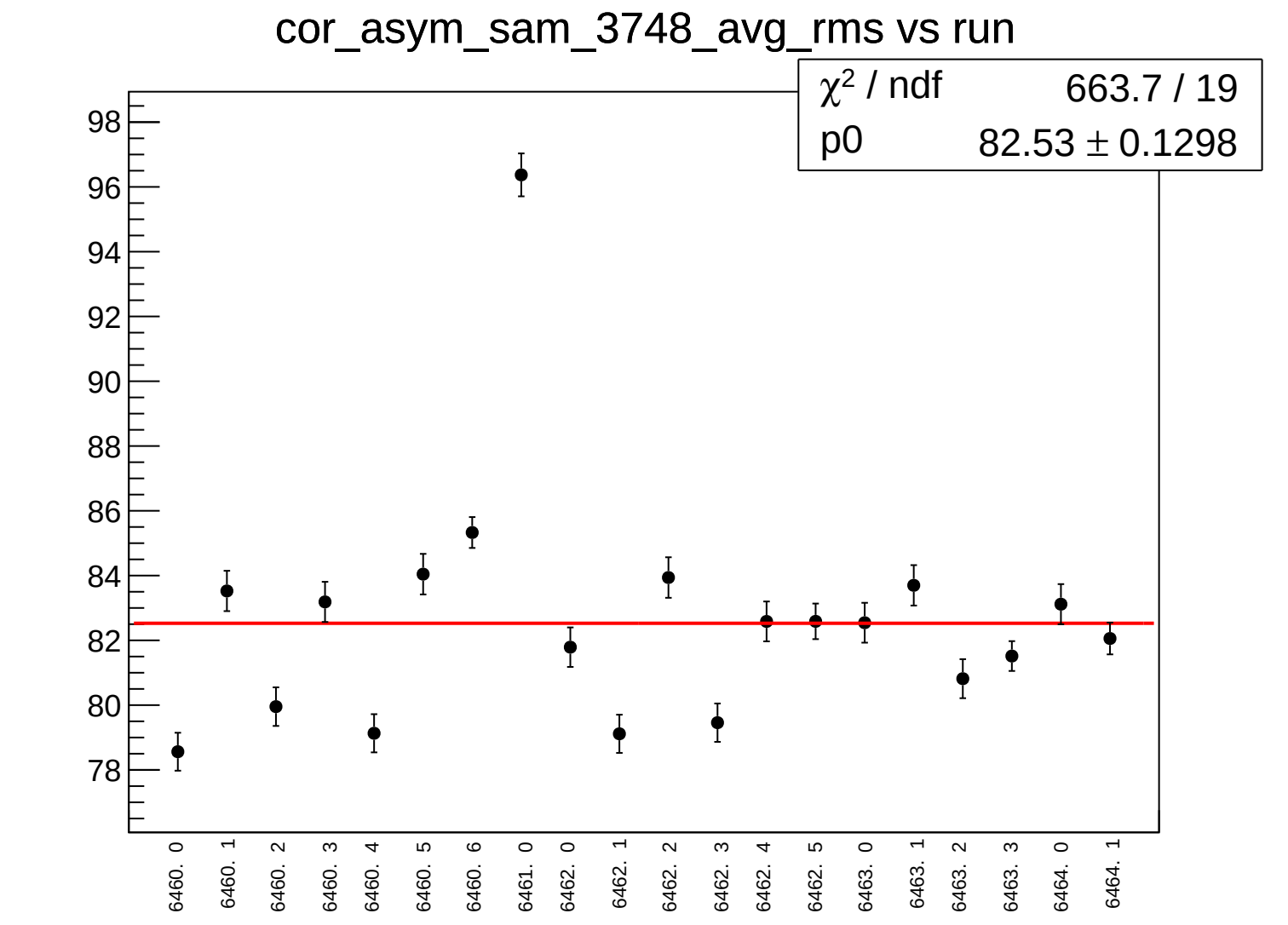

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 10.63 / 19
p0 −857.2 ± 2359
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.43
Std Dev 0
1
0.5
0
−0.5
−1

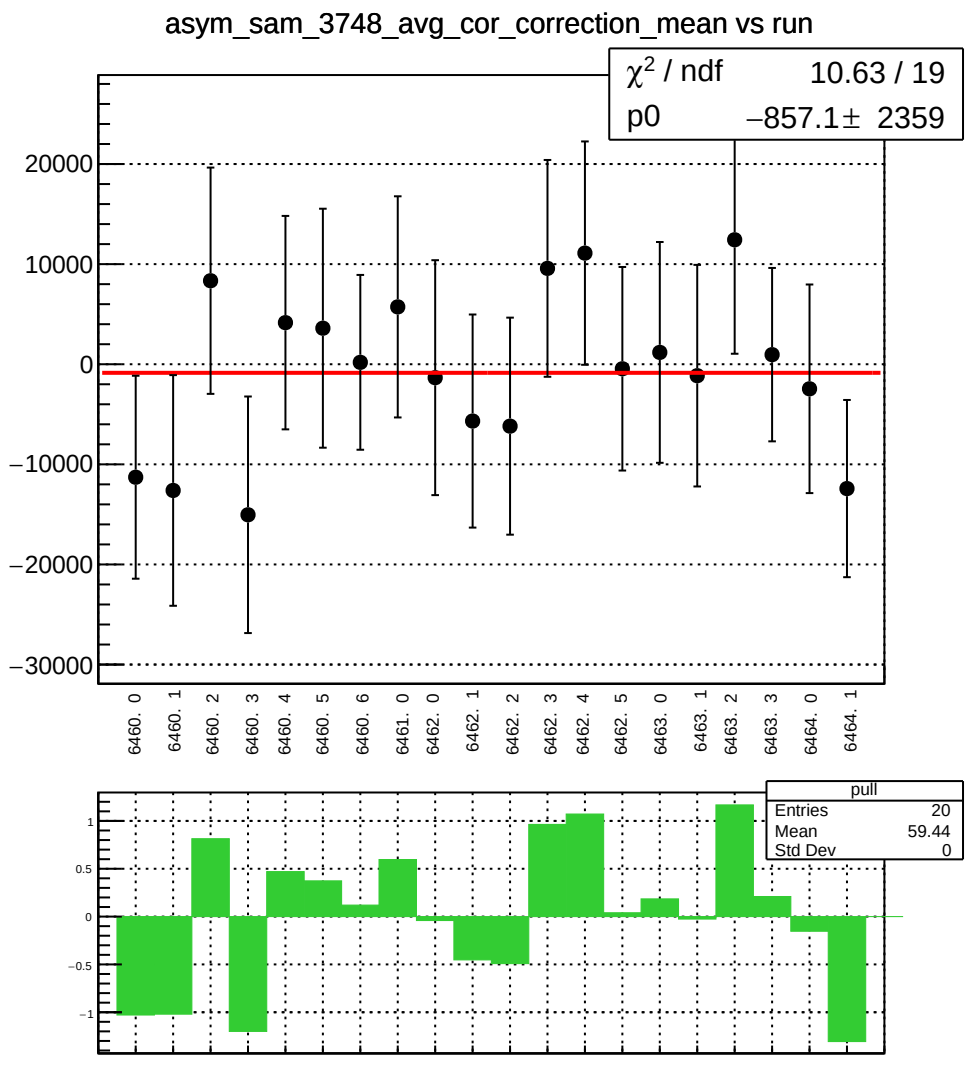

pull1D
Entries 20
Mean 0.01457
Std Dev 0.7289
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

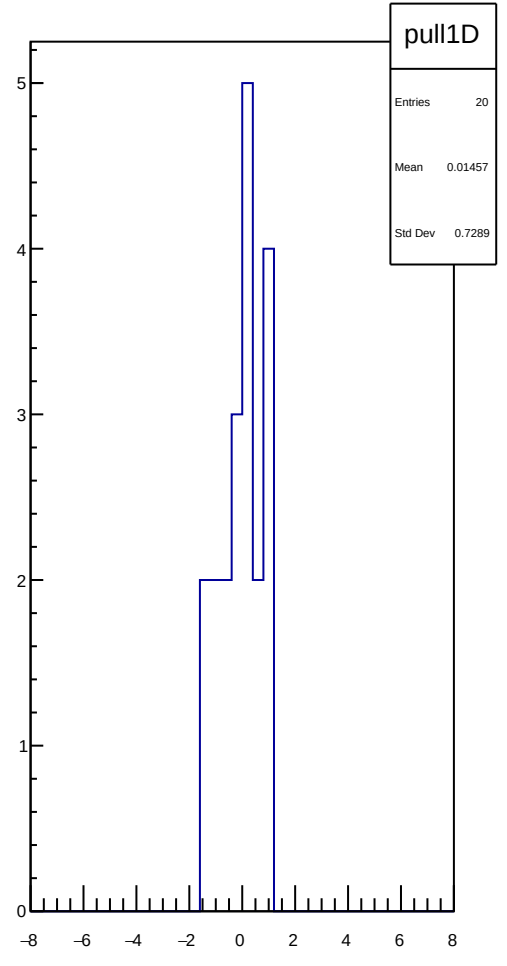

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 779.6 / 19
p0 1061 ± 1.668
1150
1100
1050
1000
950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

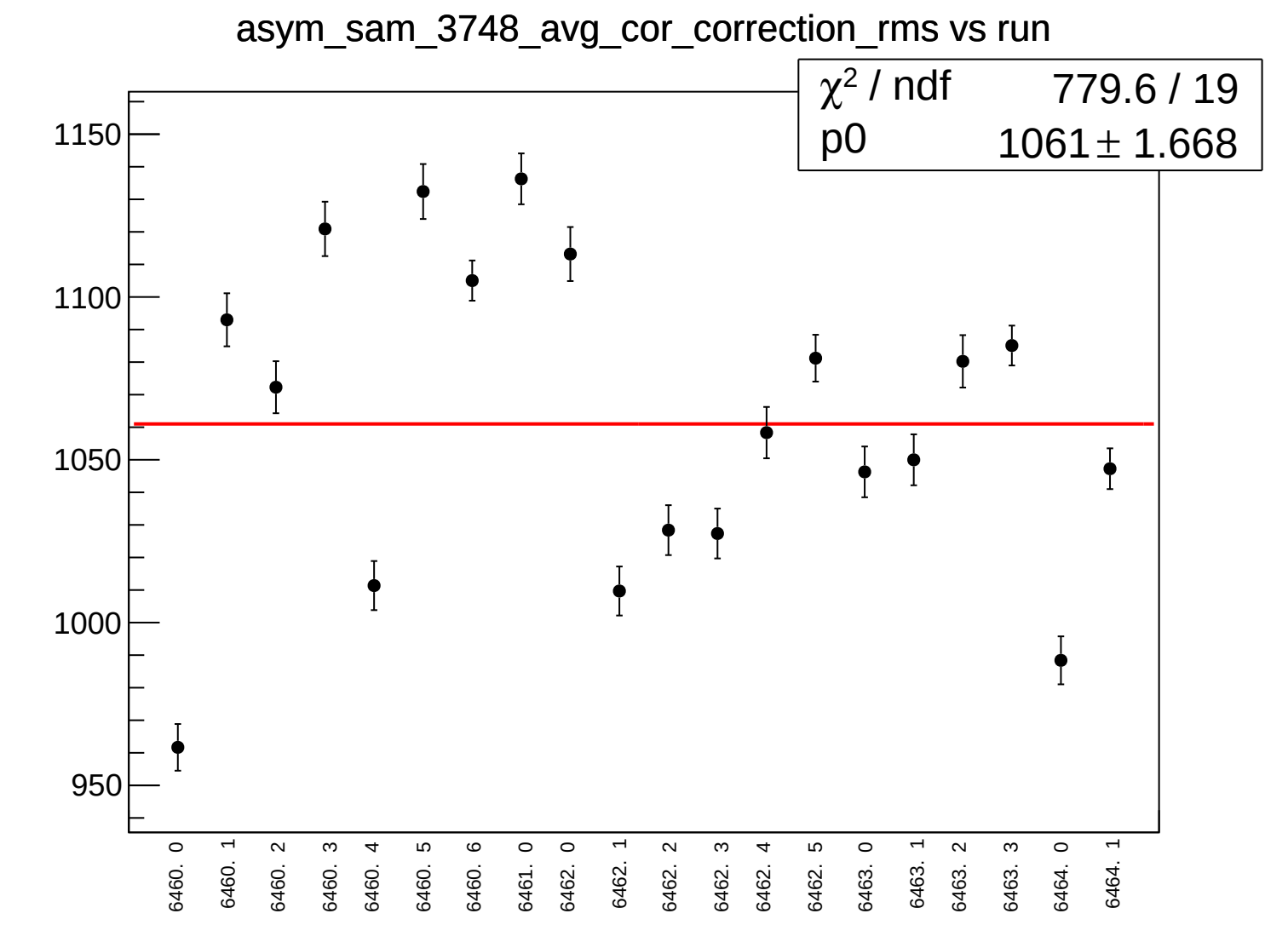

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 18.69 / 19
p0 122.9 ± 183.5
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −63.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

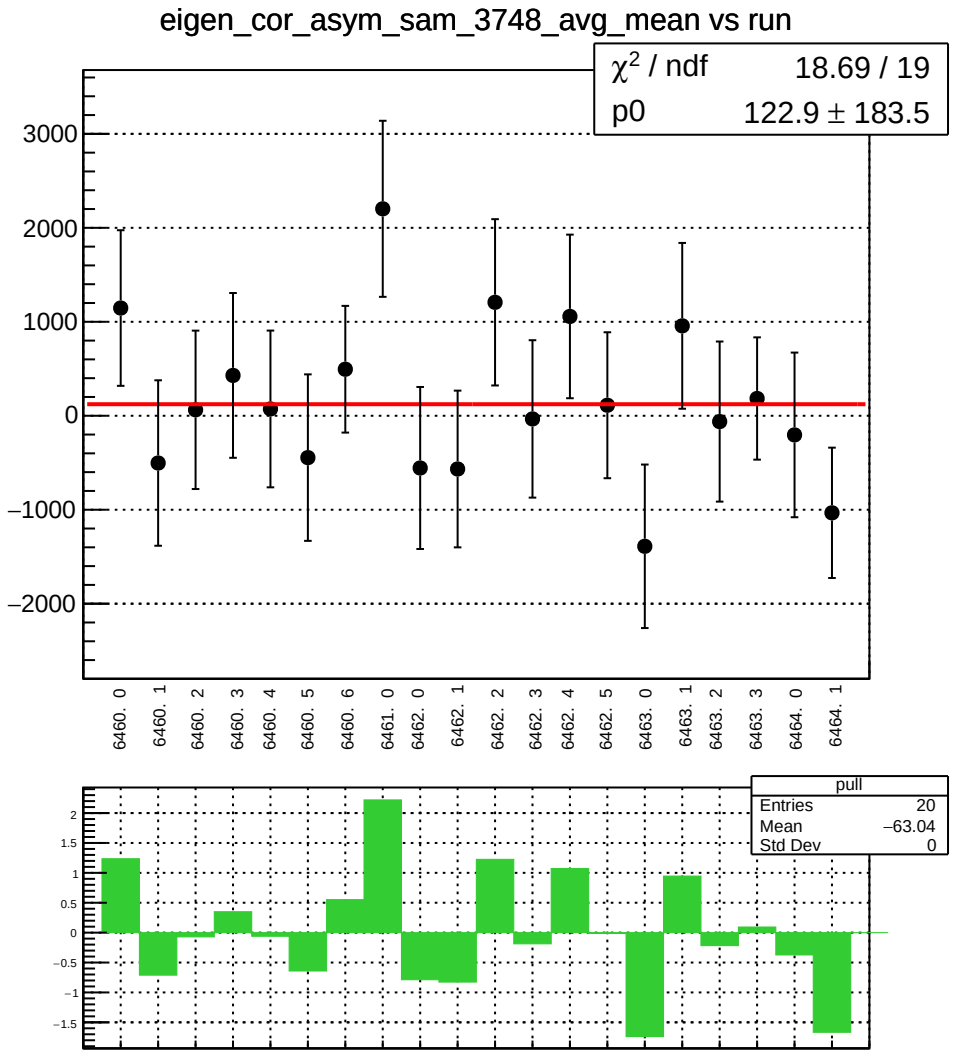

pull1D
Entries 20
Mean 0.02018
Std Dev 0.9664
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

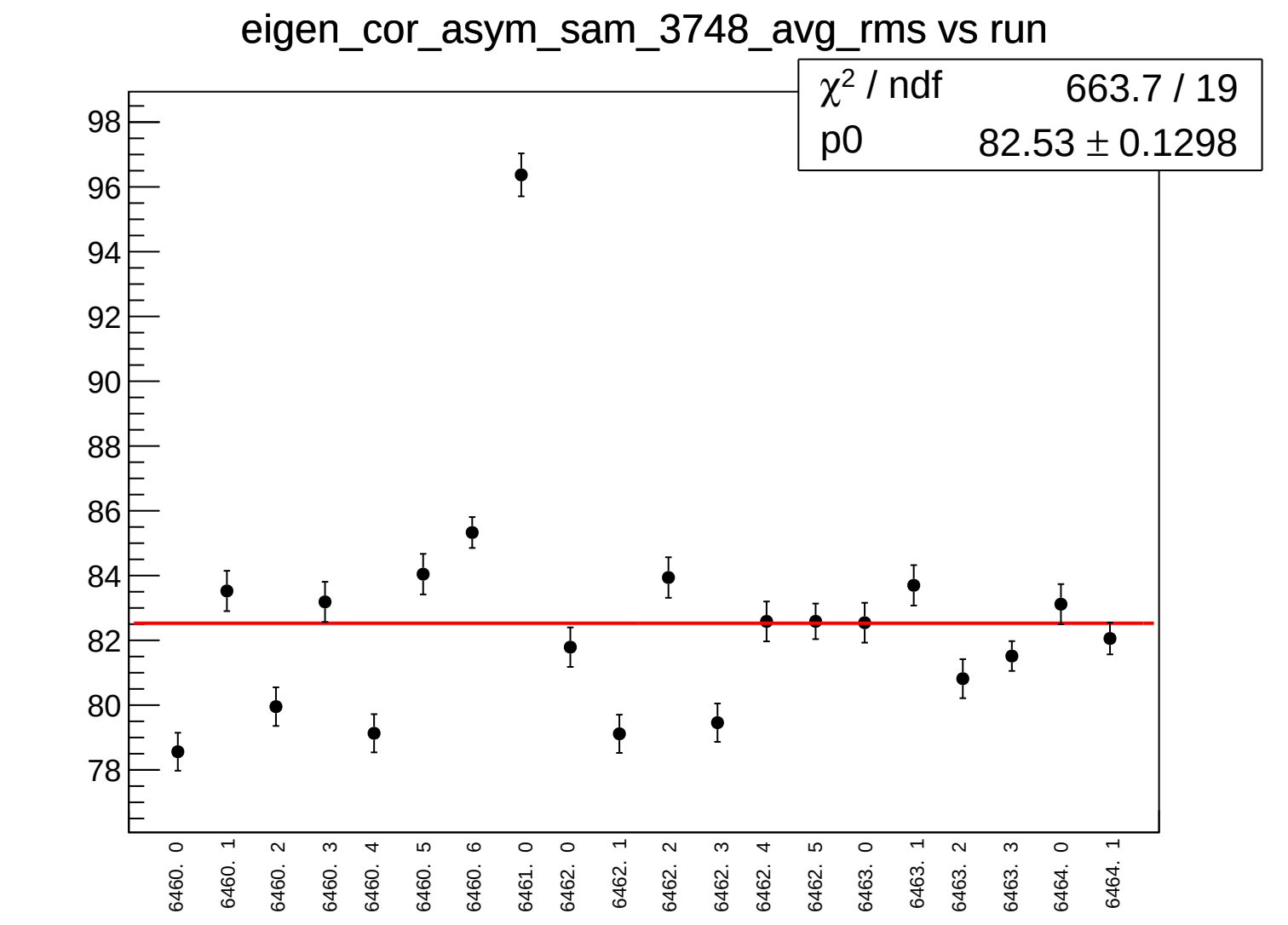

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 663.7 / 19
p0 82.53 ± 0.1298
98
96
94
92
90
88
86
84
82
80
78
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

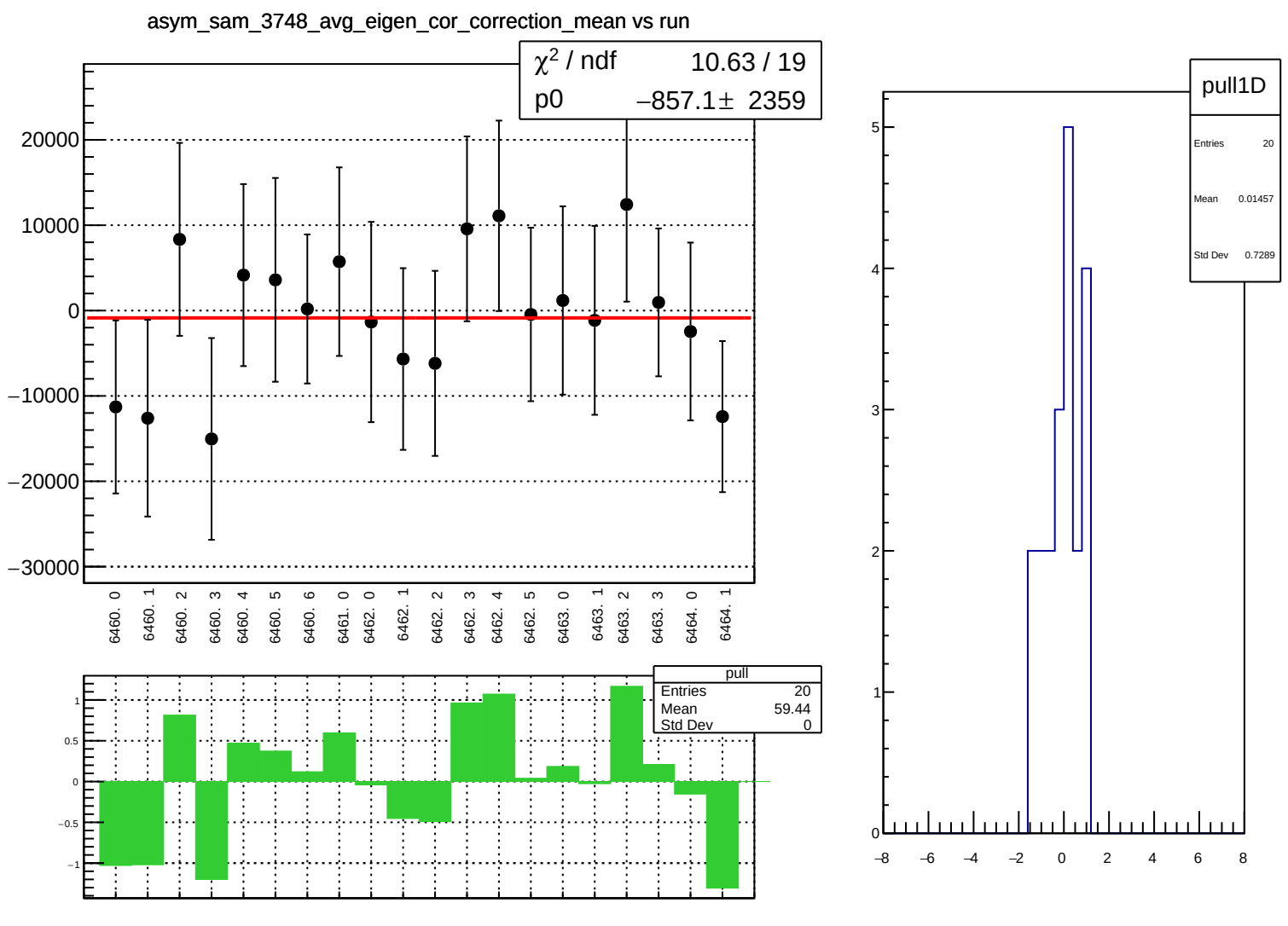

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 10.63 / 19
p0 −857.1± 2359
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.44
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean 0.01457
Std Dev 0.7289
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 779.6 / 19
p0 1061 ± 1.668
1150
1100
1050
1000
950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 18.69 / 19
p0 122.9 ± 183.5
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −63.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02018
Std Dev 0.9664
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 663.7 / 19
p0 82.53 ± 0.1298
98
96
94
92
90
88
86
84
82
80
78
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.63 / 19
p0 −857.1± 2359
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.44
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01457
Std Dev 0.7289
5
4
3
2
1
0
−8
−6
−4
−2
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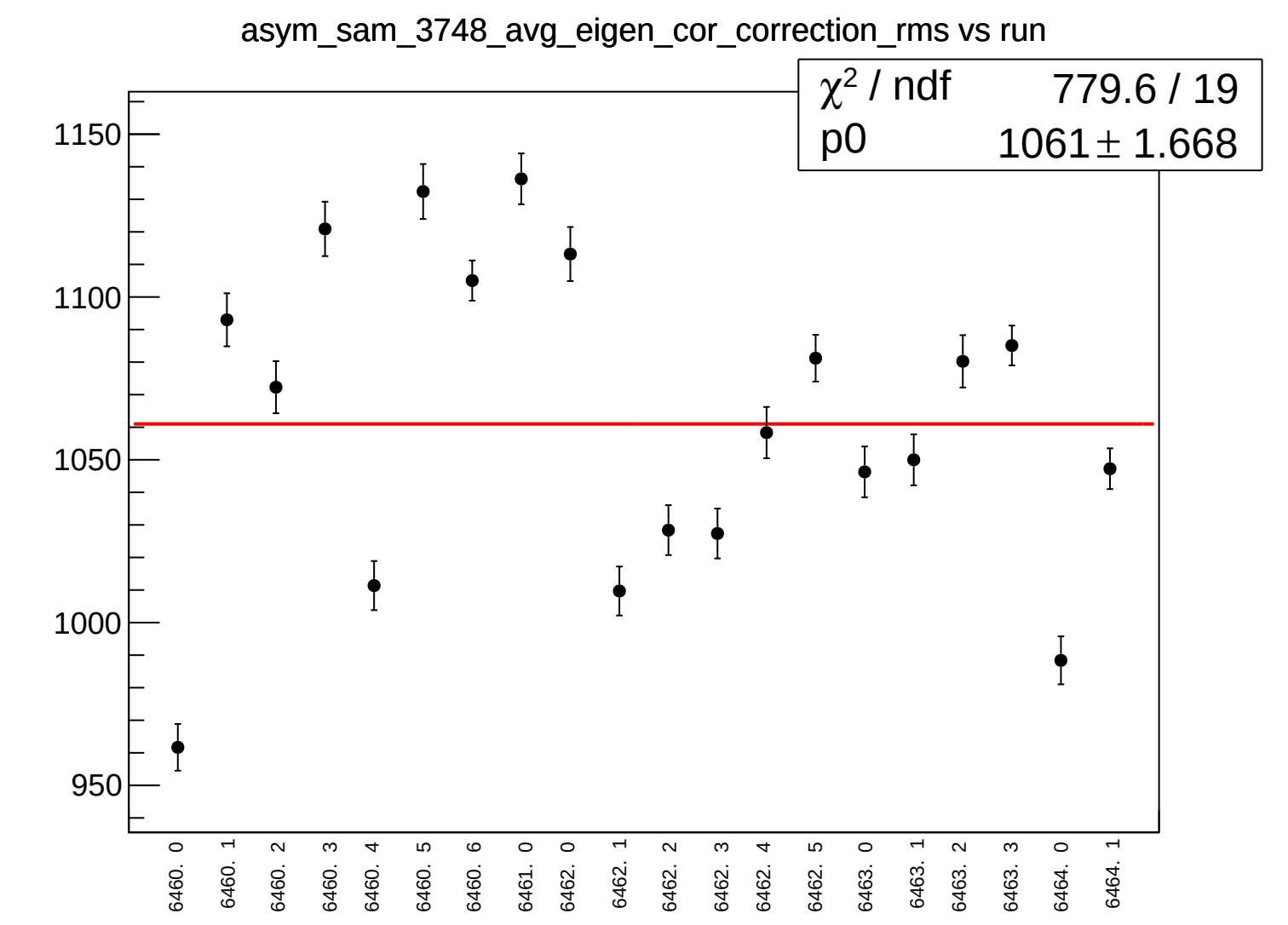
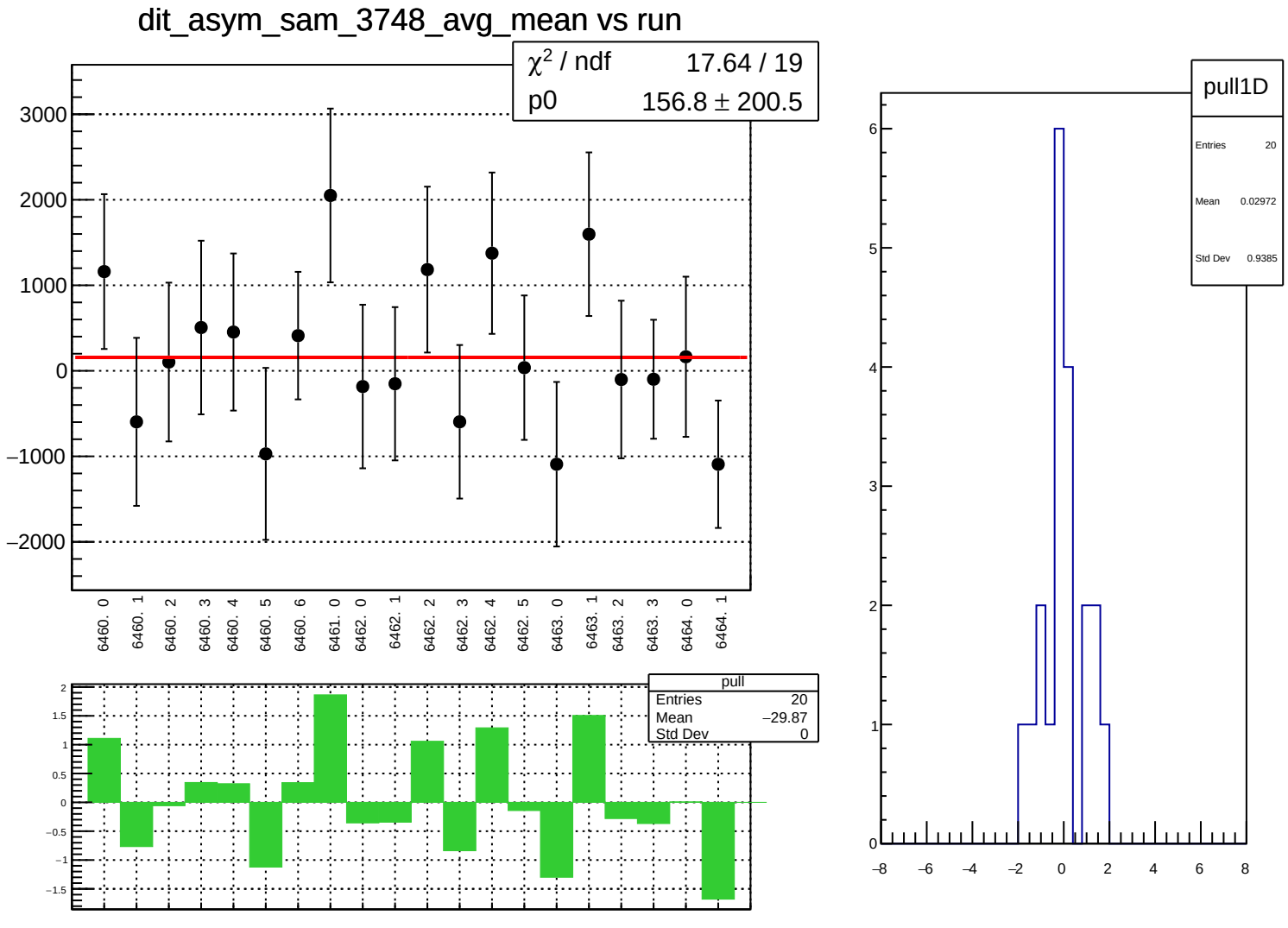
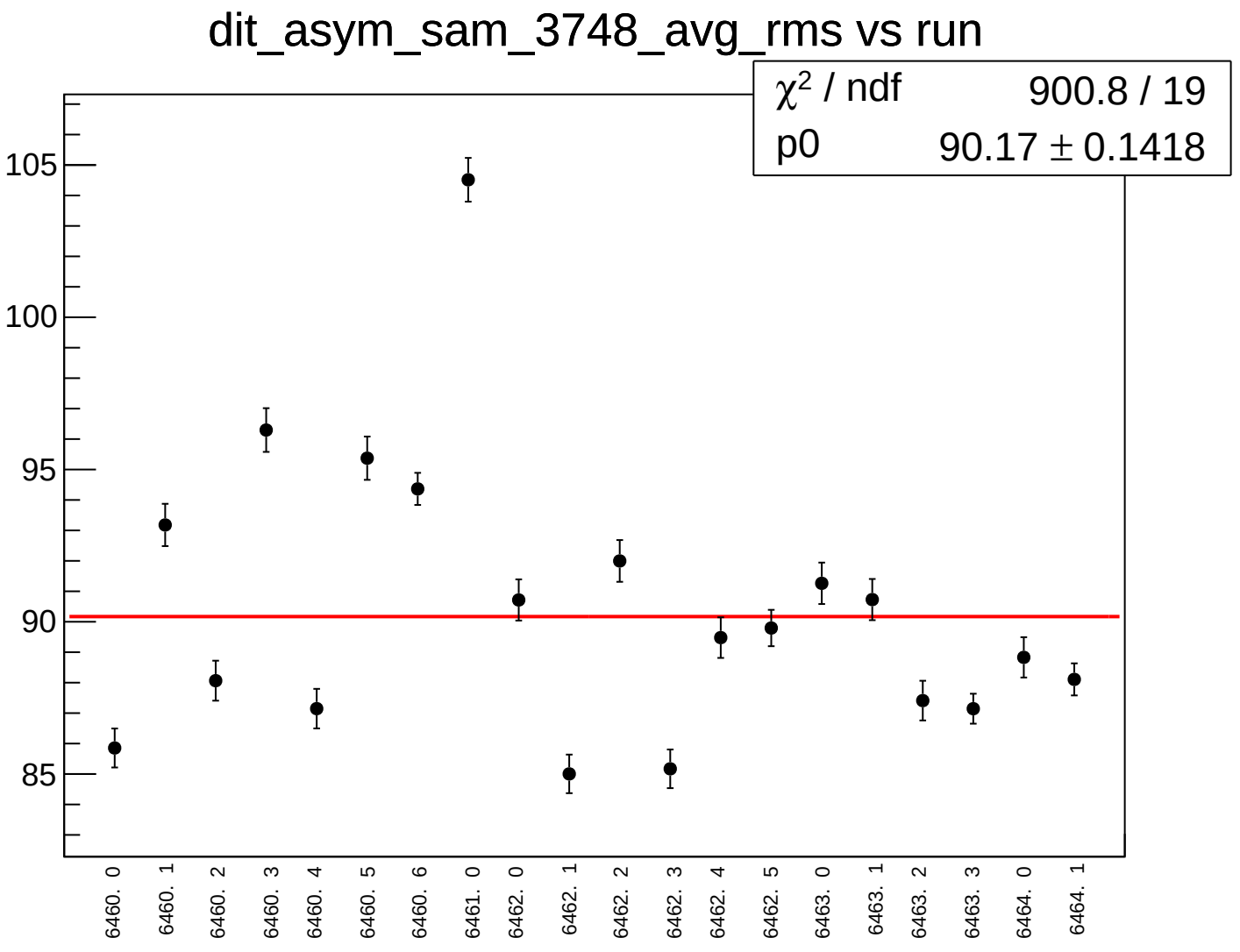
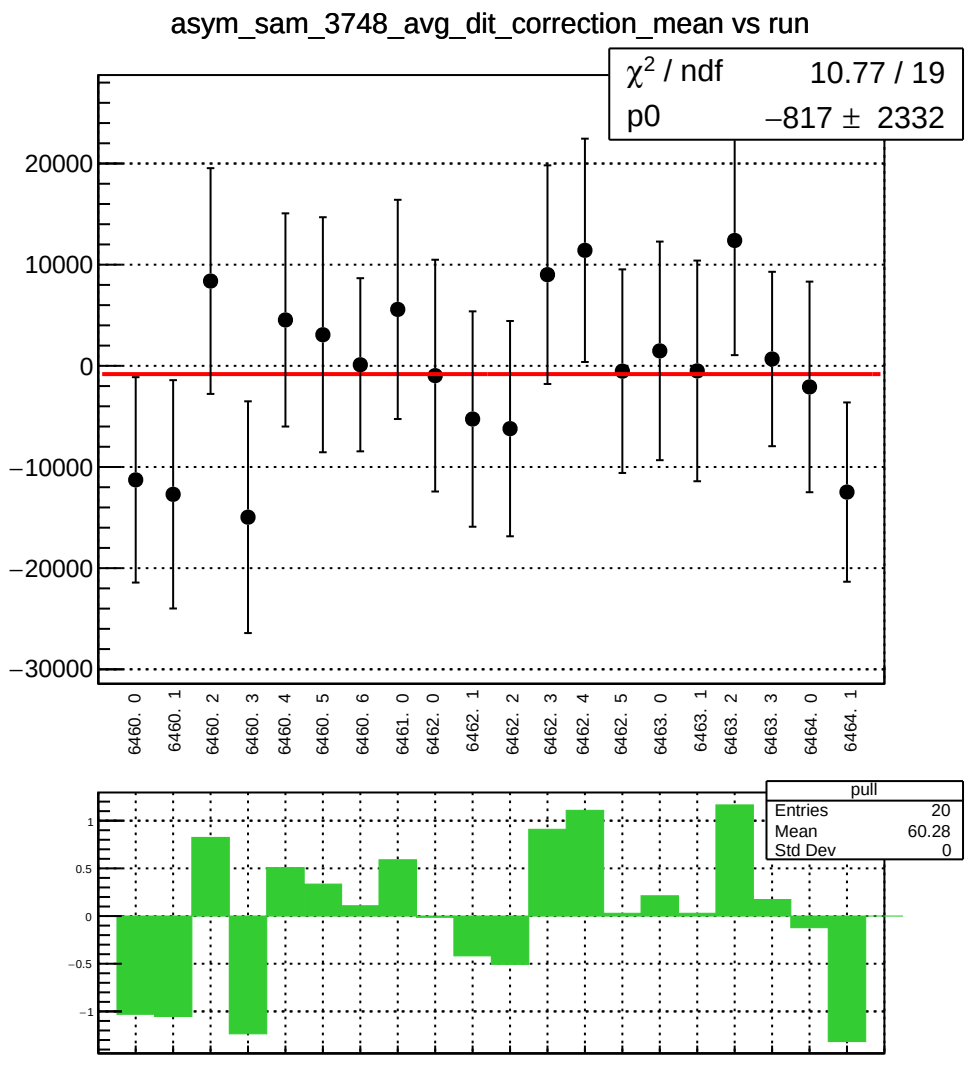
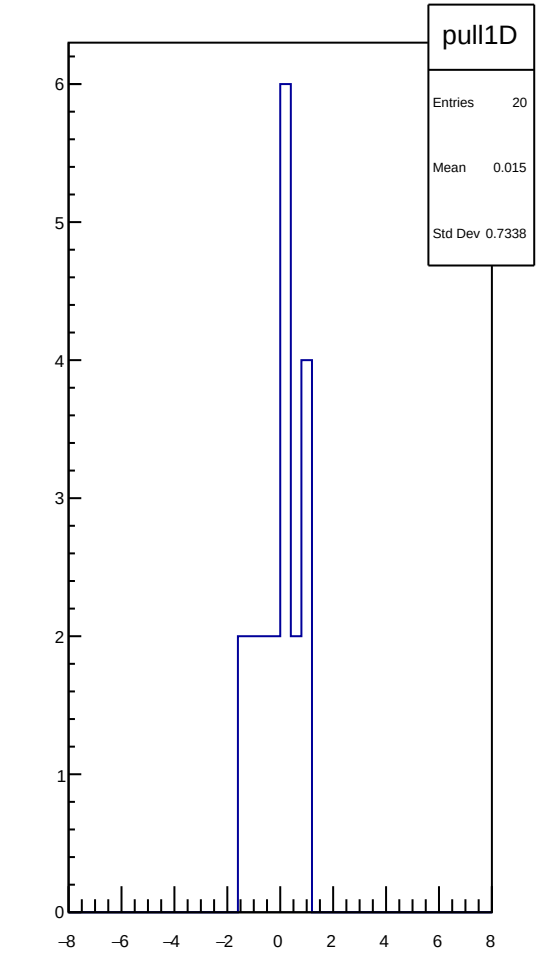
2
4
6
8

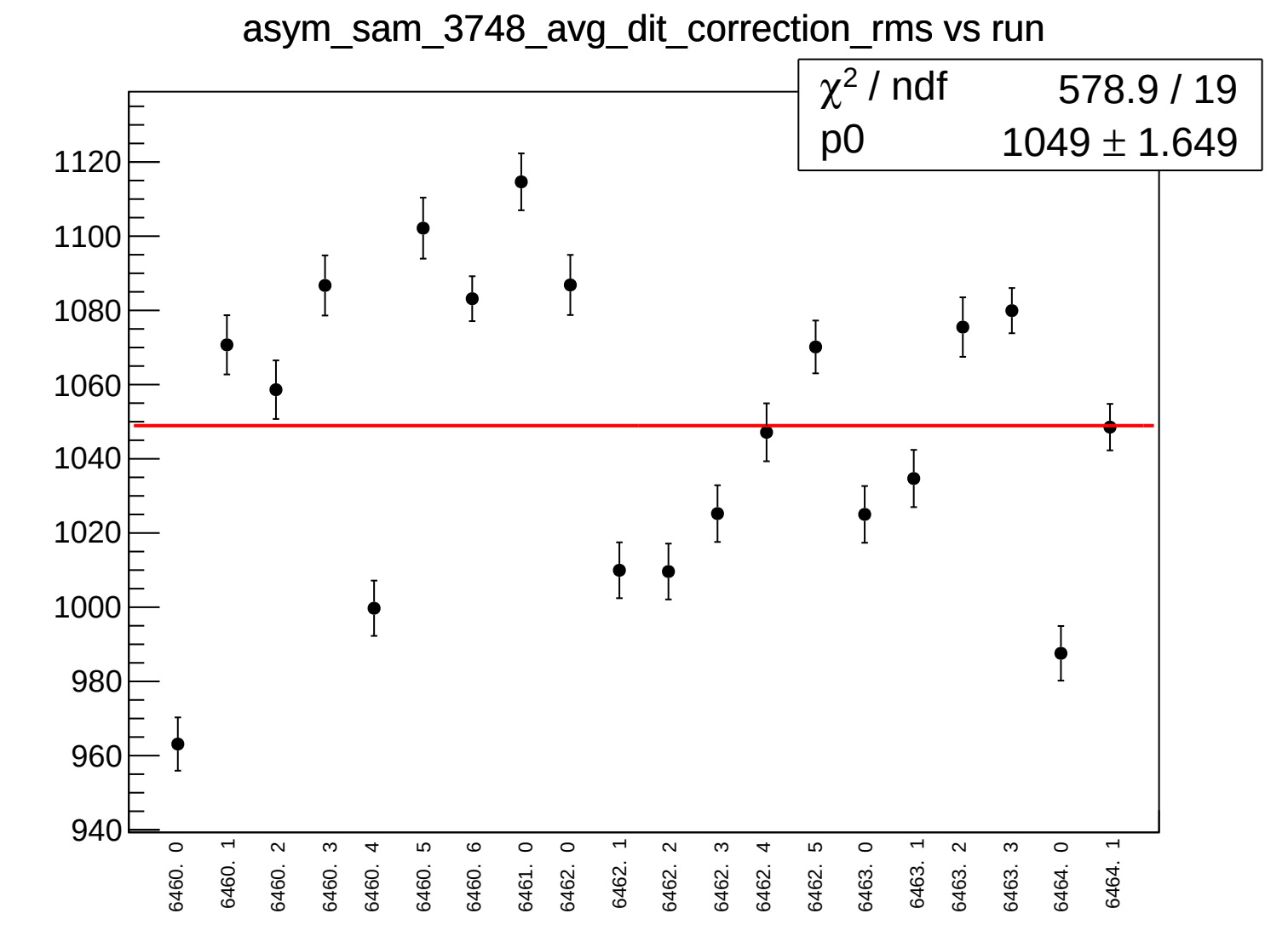

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 779.6 / 19
p0 1061 ± 1.668
1150
1100
1050
1000
950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

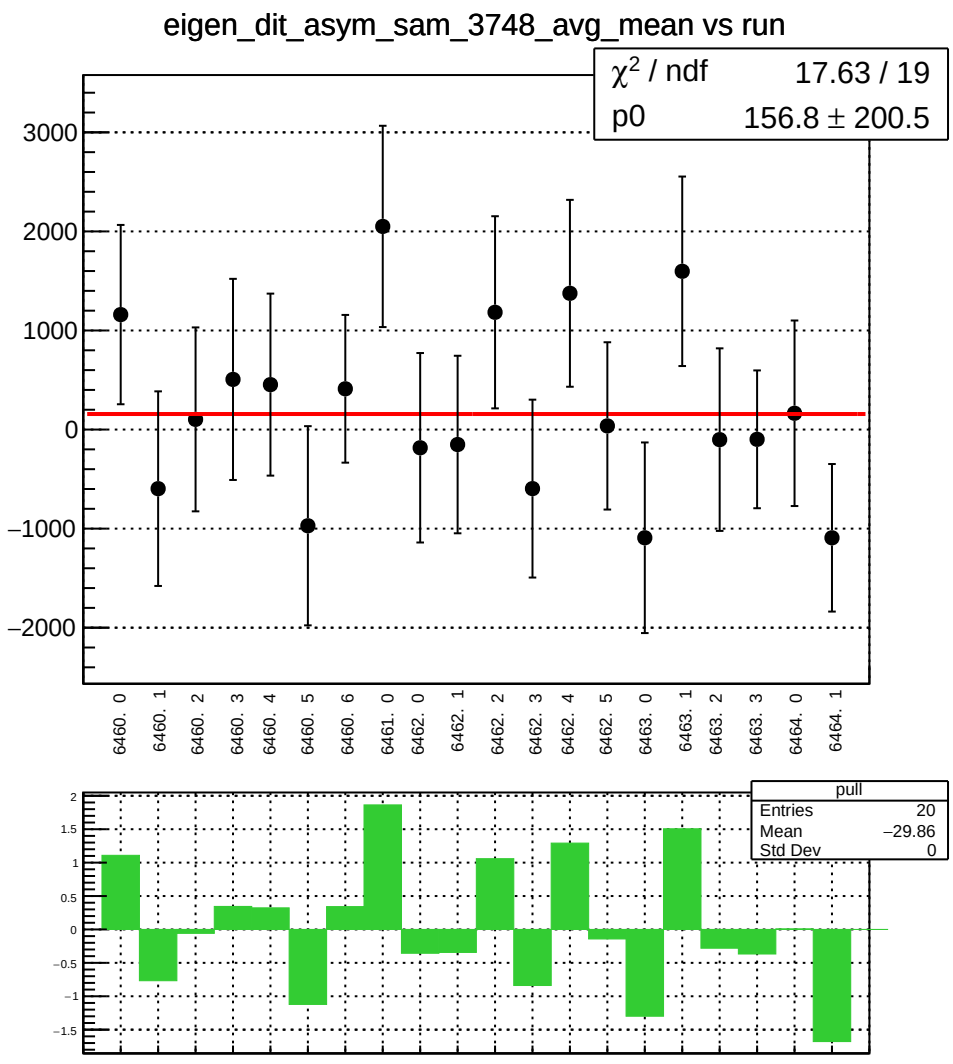

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 17.64 / 19
p0 156.8 ± 200.5
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02972
Std Dev 0.9385
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

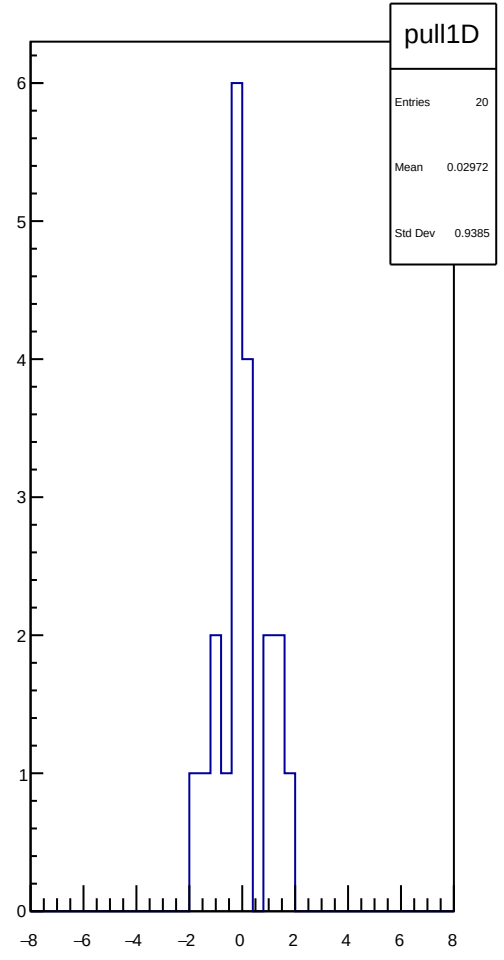

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 900.8 / 19
p0 90.17 ± 0.1418
105
100
95
90
85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

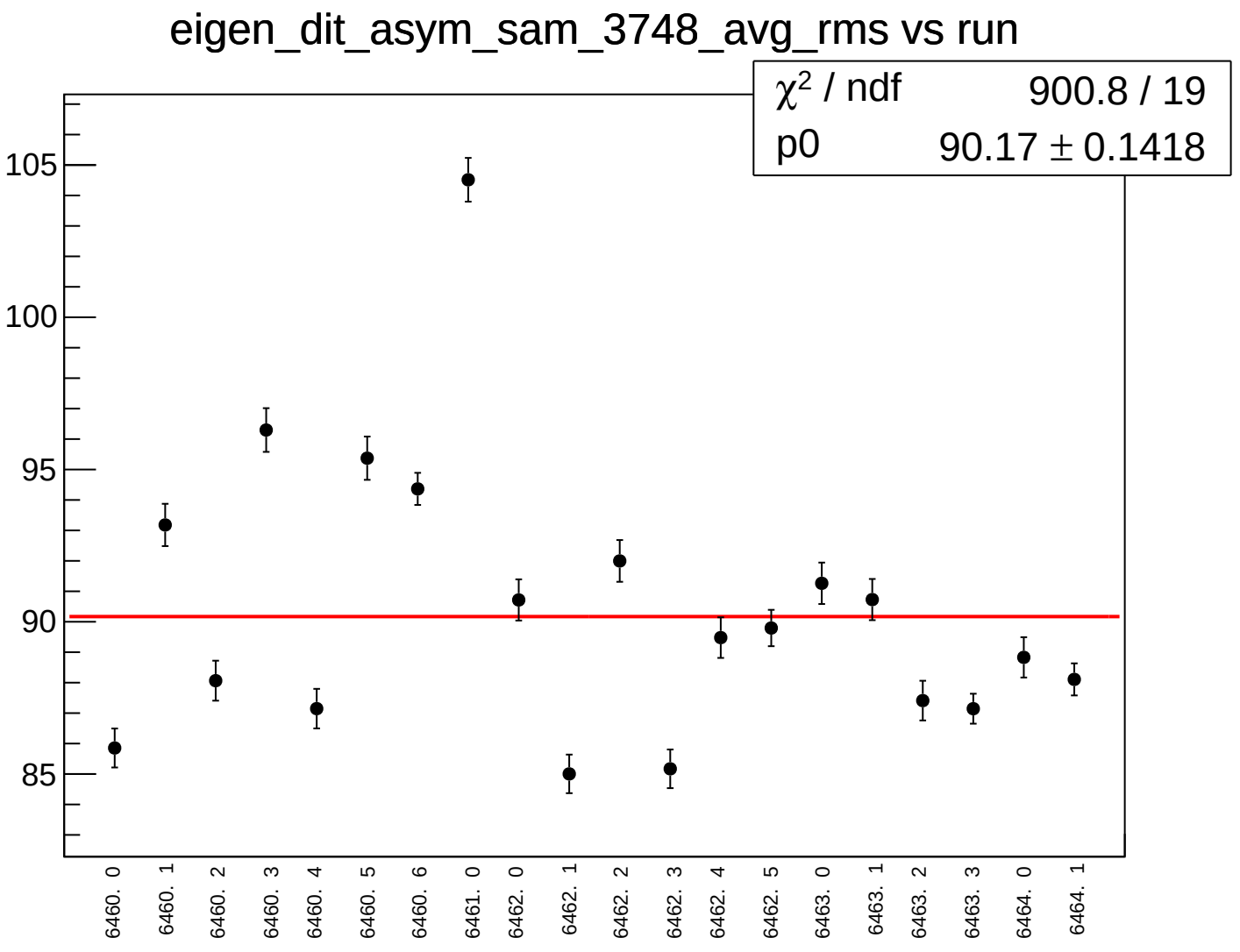

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 10.77 / 19
p0 −817 ± 2332
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.28
Std Dev 0
1
0.5
0
−0.5
−1

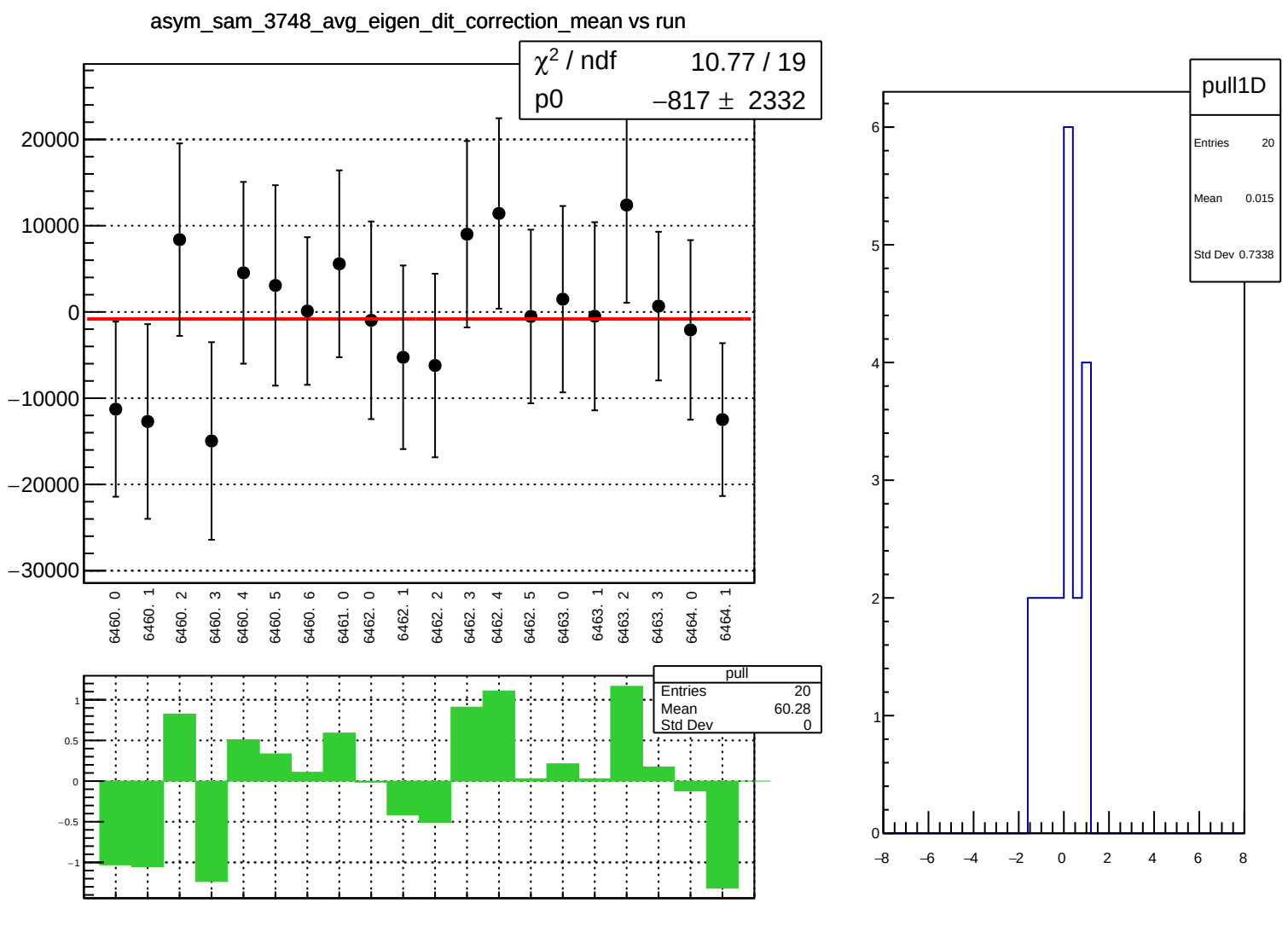

pull1D
Entries 20
Mean 0.015
Std Dev 0.7338
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

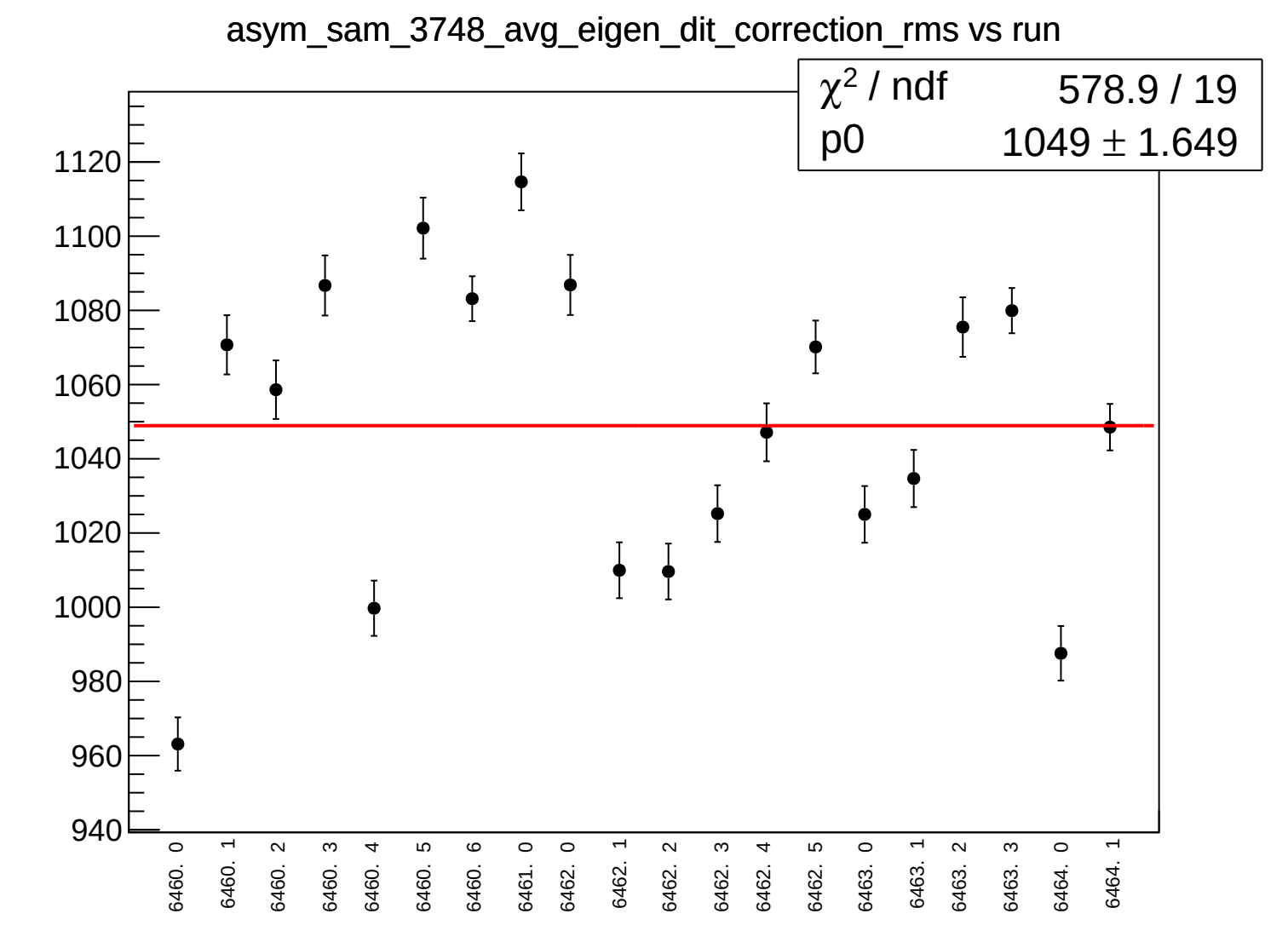

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 578.9 / 19
p0 1049 ± 1.649
1120
1100
1080
1060
1040
1020
1000
980
960
940
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

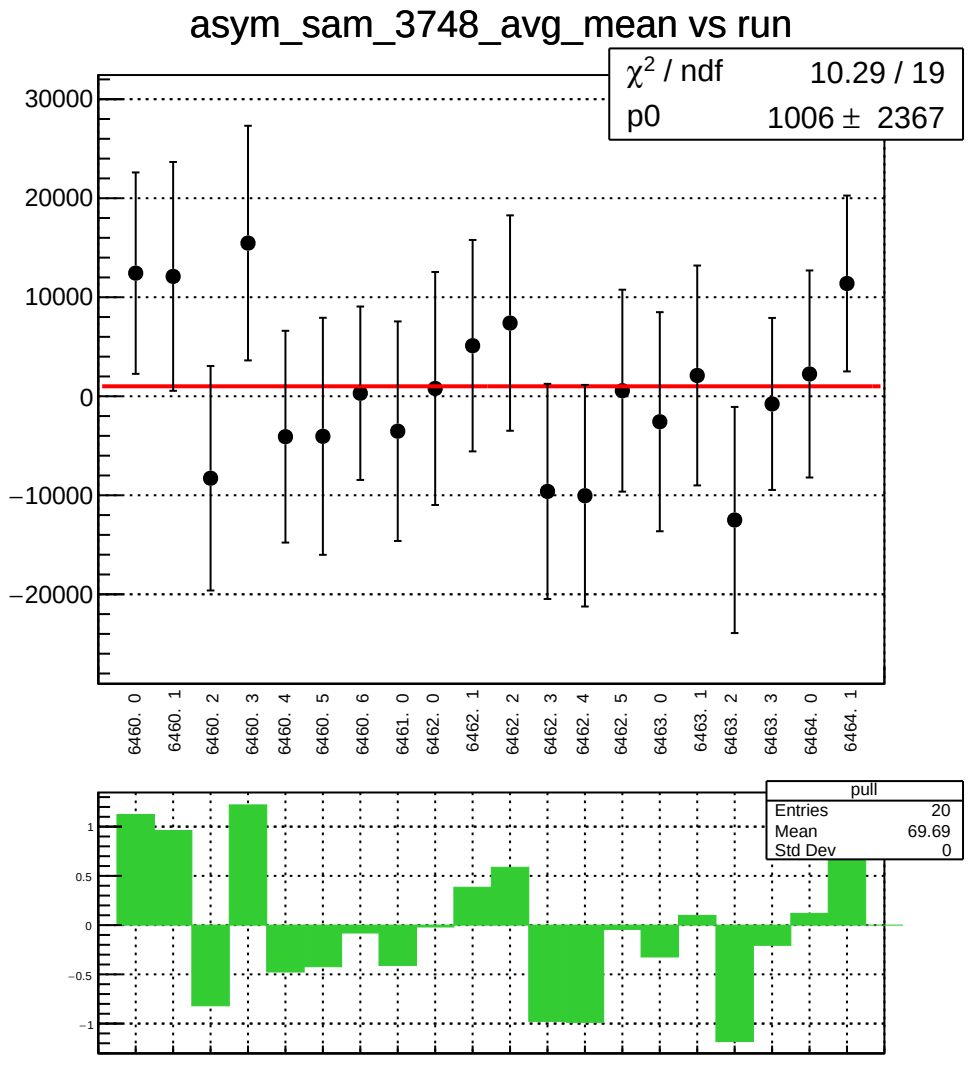

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 17.63 / 19
p0 156.8 ± 200.5
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

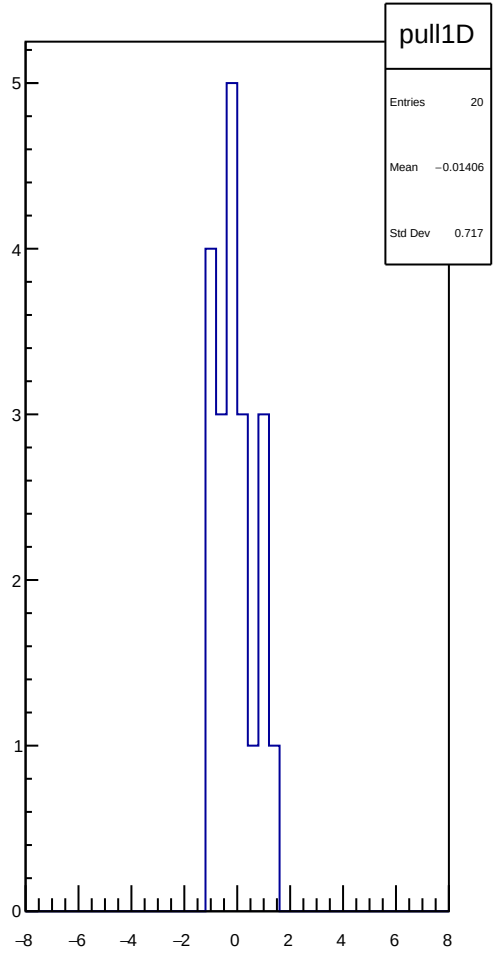

pull1D
Entries 20
Mean 0.02972
Std Dev 0.9385
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

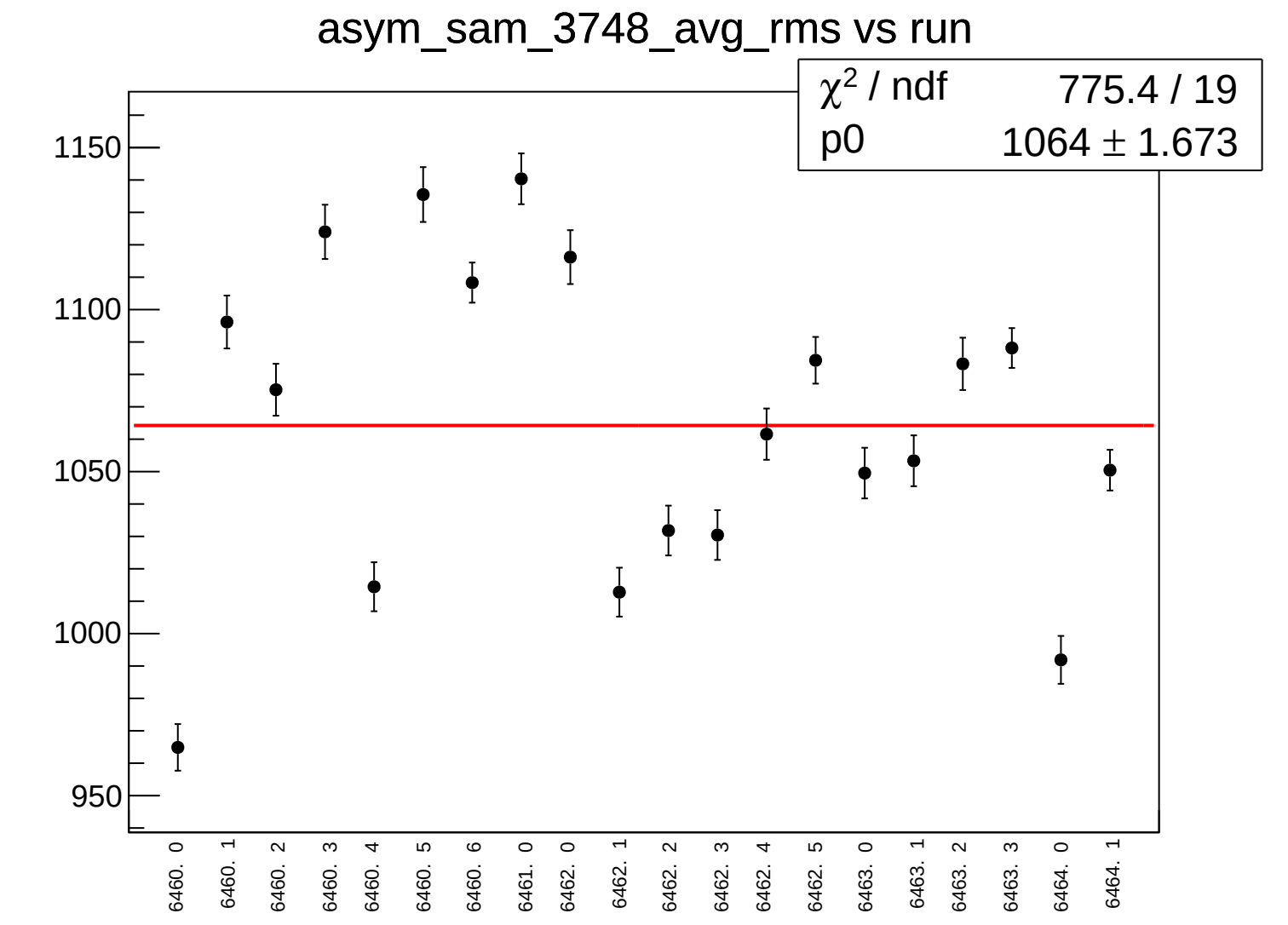

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 900.8 / 19
p0 90.17 ± 0.1418
105
100
95
90
85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

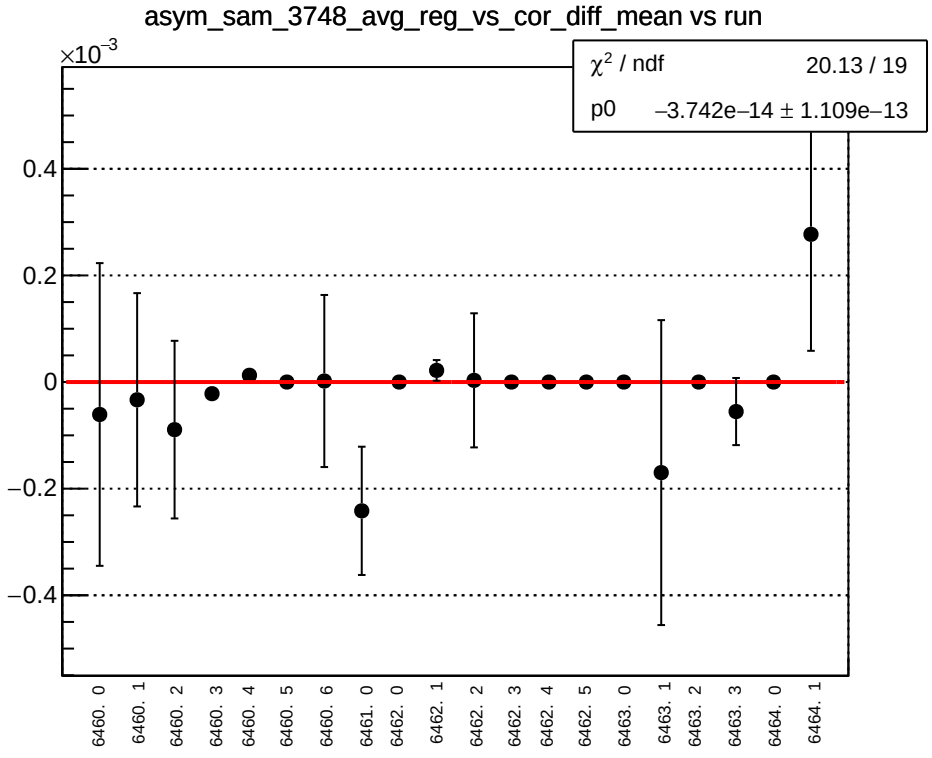

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.77 / 19
p0 −817 ± 2332
20000
10000
0
−10000
−20000
−30000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.28
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.015
Std Dev 0.7338
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

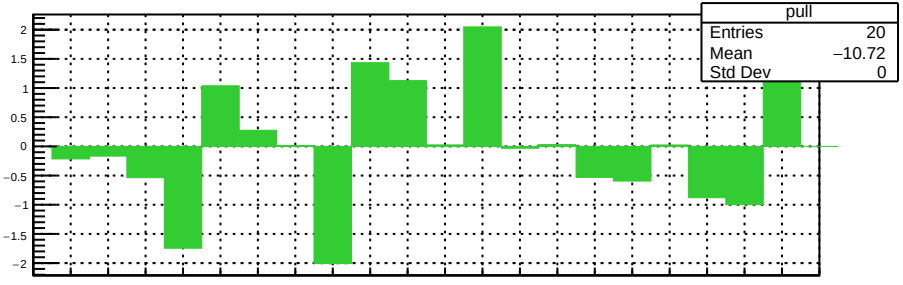

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 578.9 / 19
p0 1049 ± 1.649
1120
1100
1080
1060
1040
1020
1000
980
960
940
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

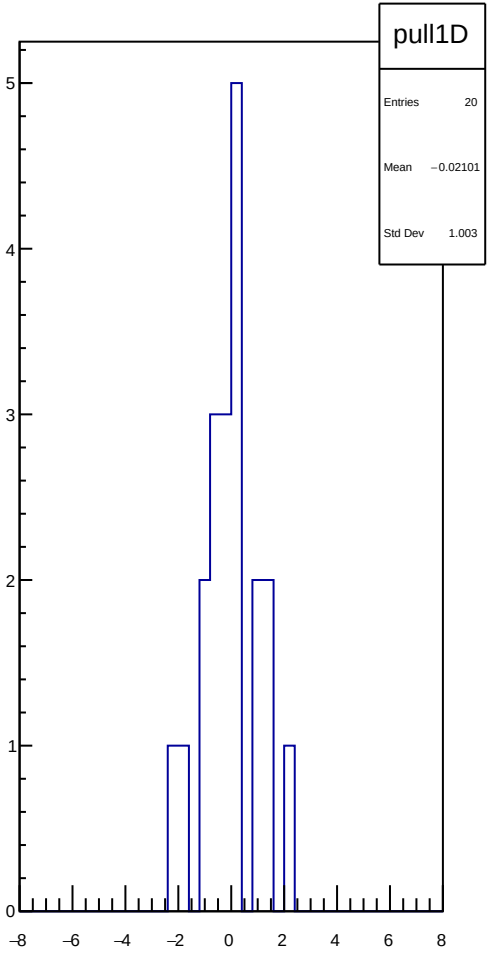

asym_sam_3748_avg_mean vs run
χ² / ndf 10.29 / 19
p0 1006 ± 2367
30000
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.69
Std Dev 0
1
0.5
0
−0.5
−1

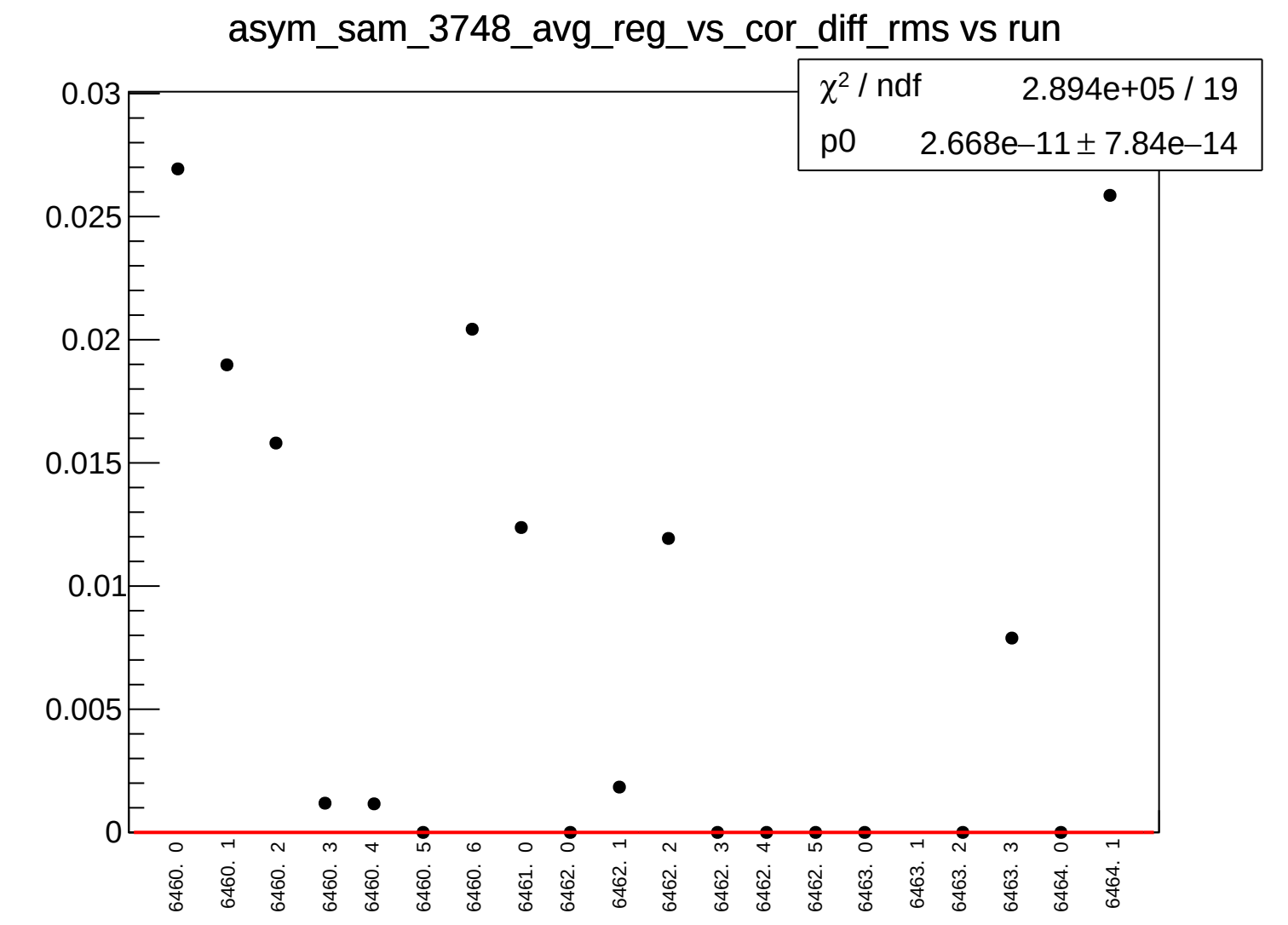

pull1D
Entries 20
Mean −0.01406
Std Dev 0.717
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

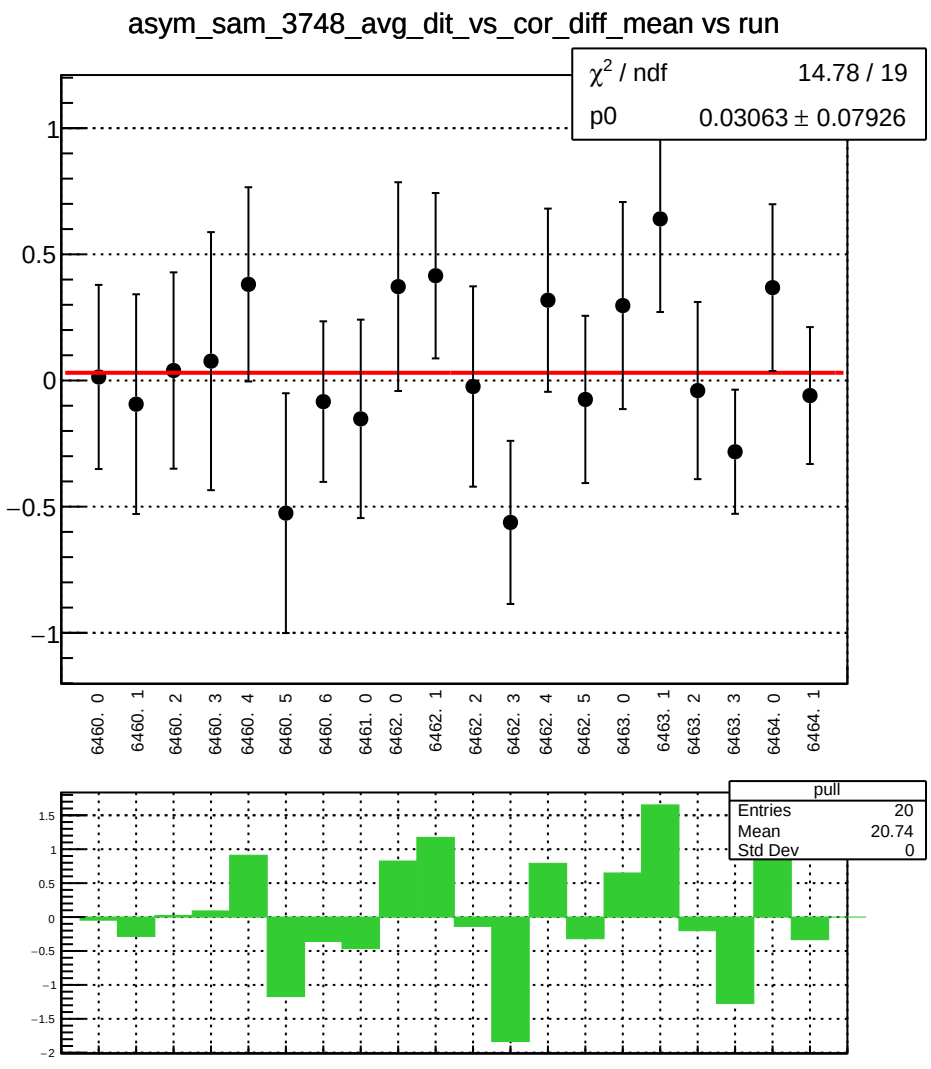

asym_sam_3748_avg_rms vs run
χ² / ndf 775.4 / 19
p0 1064 ± 1.673
1150
1100
1050
1000
950
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

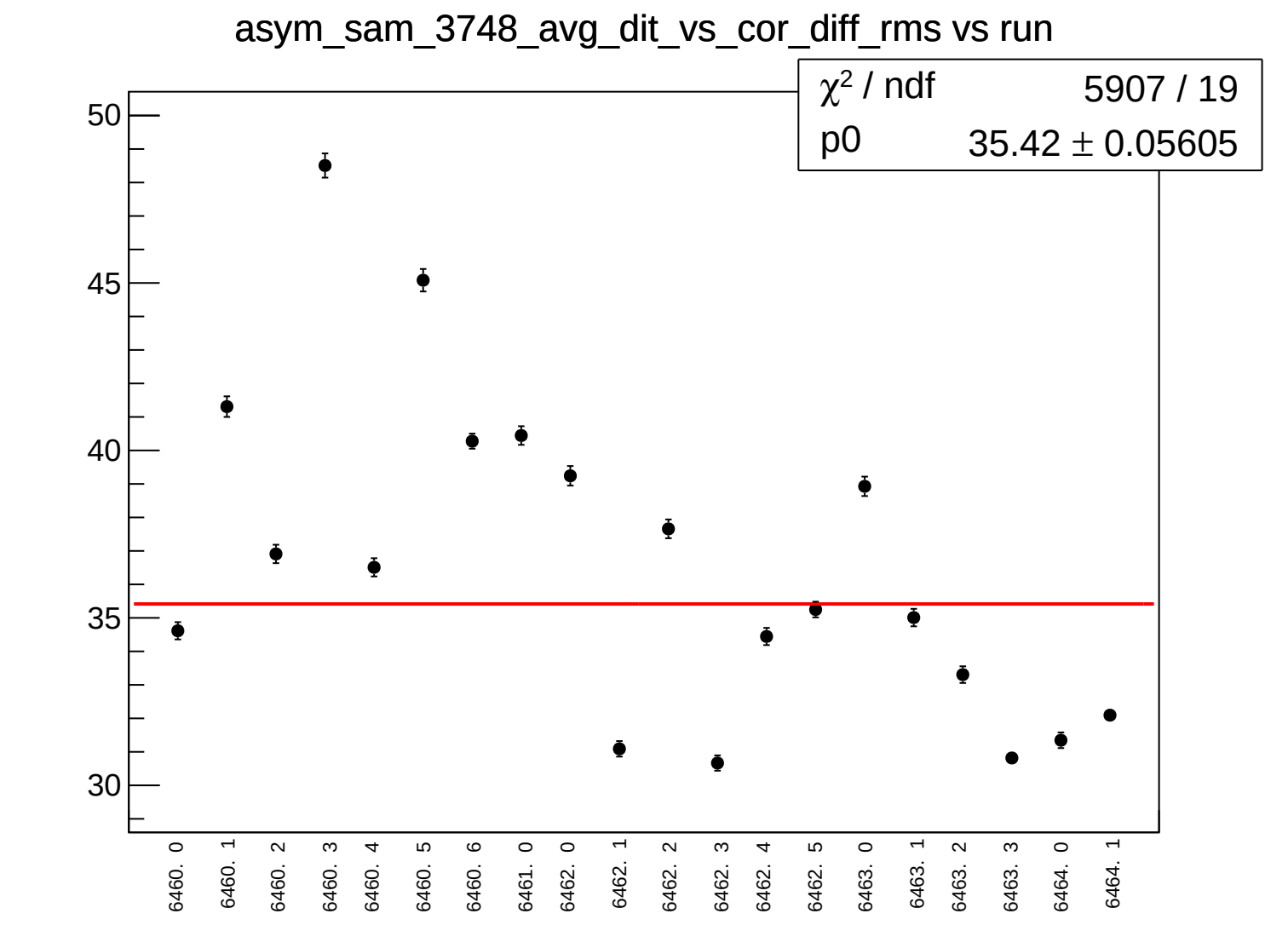

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 20.13 / 19
p0 −3.742e−14 ± 1.109e−13
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

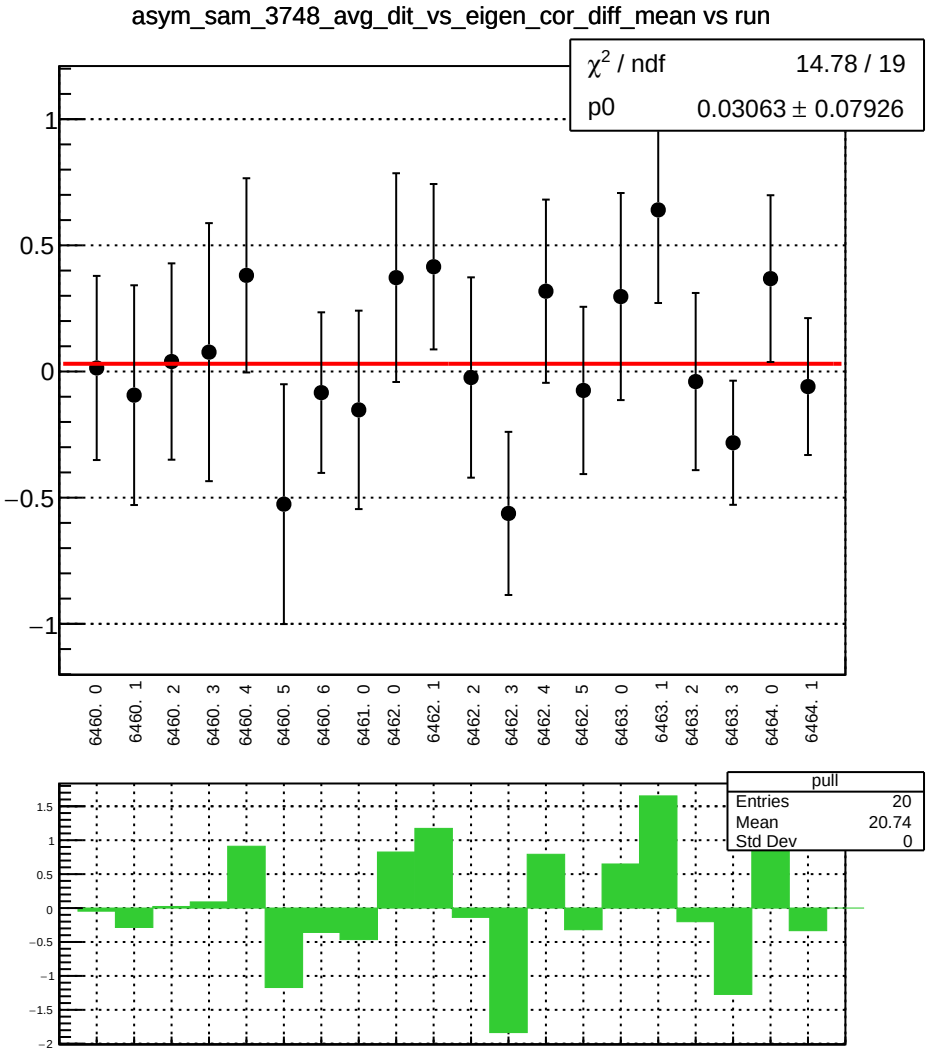

pull
Entries 20
Mean −10.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

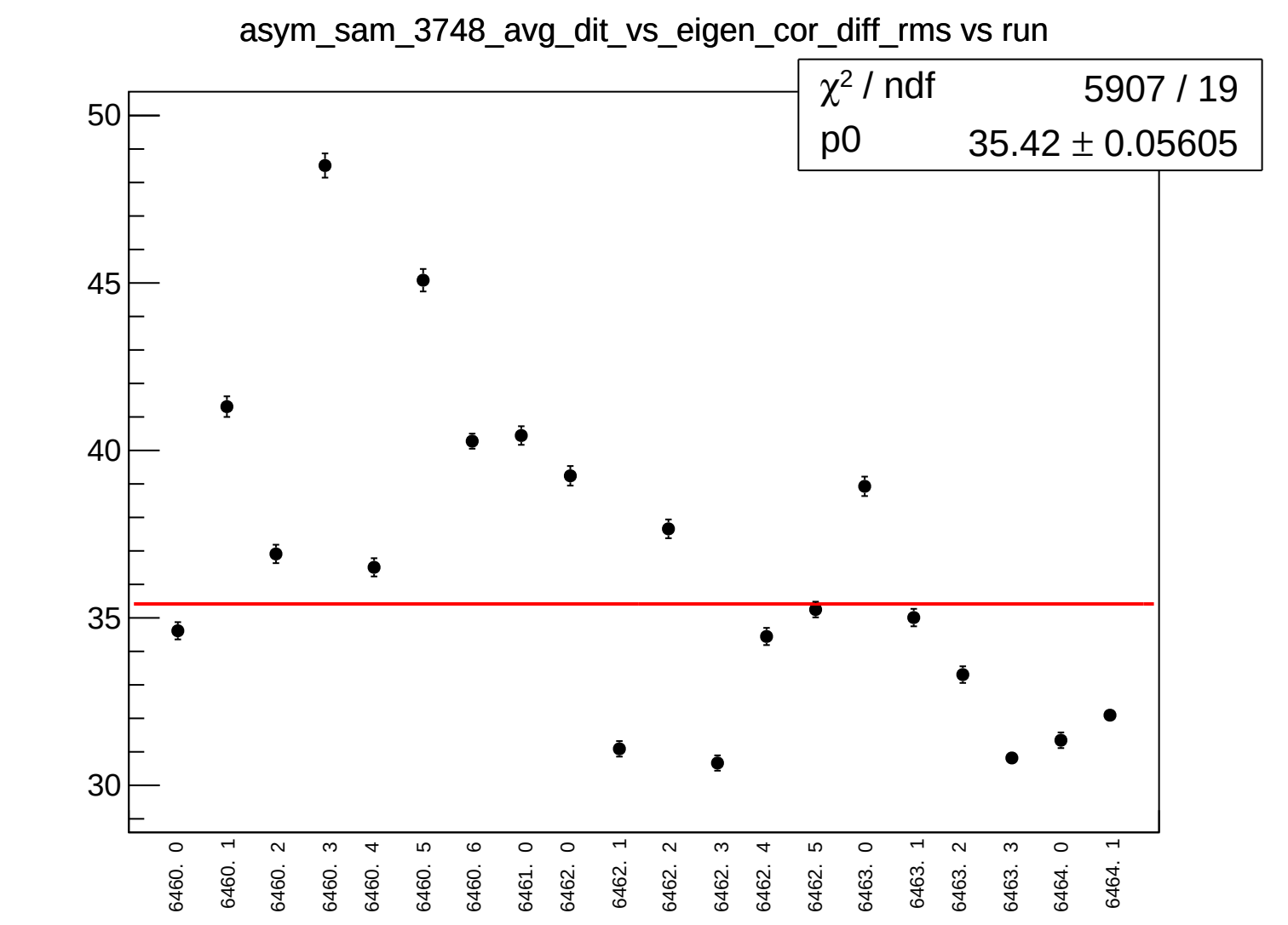

pull1D
Entries 20
Mean −0.02101
Std Dev 1.003
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

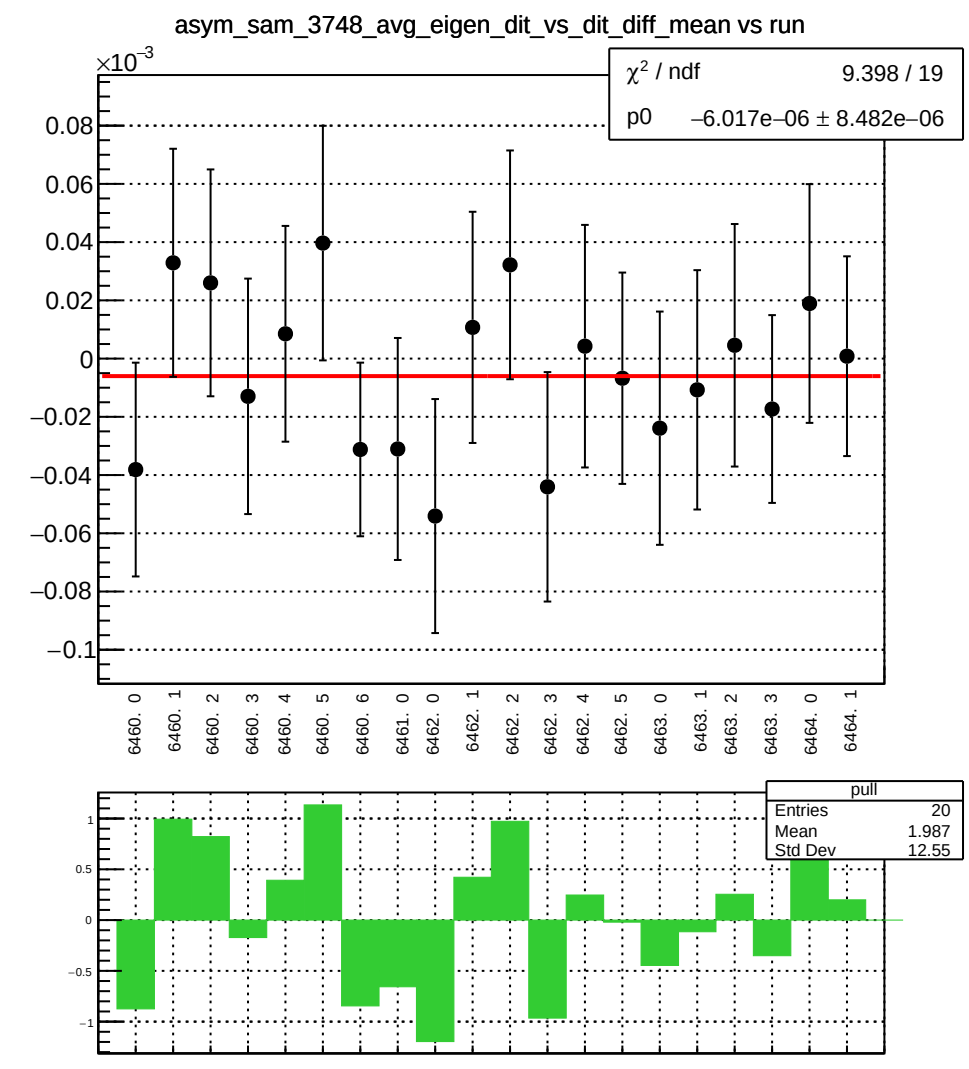

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.894e+05 / 19
p0 2.668e−11 ± 7.84e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

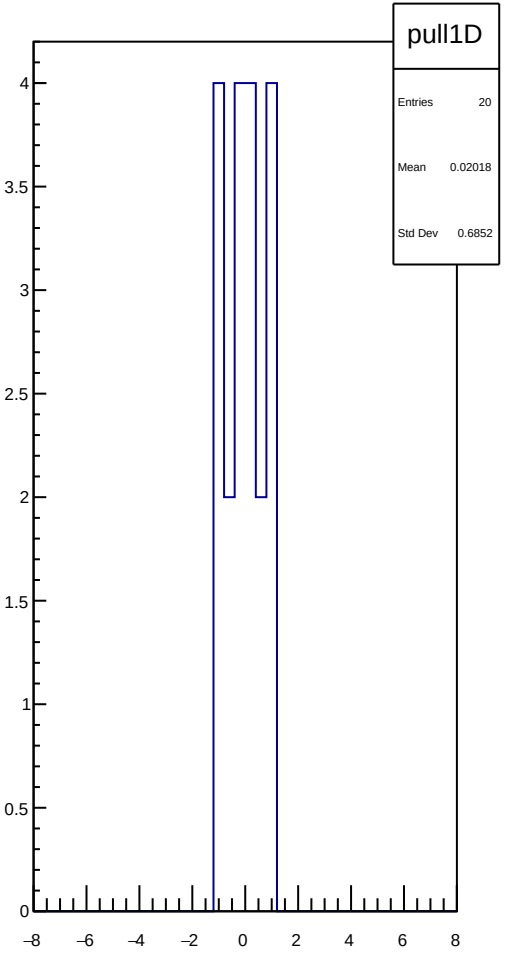

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 14.78 / 19
p0 0.03063 ± 0.07926
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 20.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.03576
Std Dev 0.8588
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

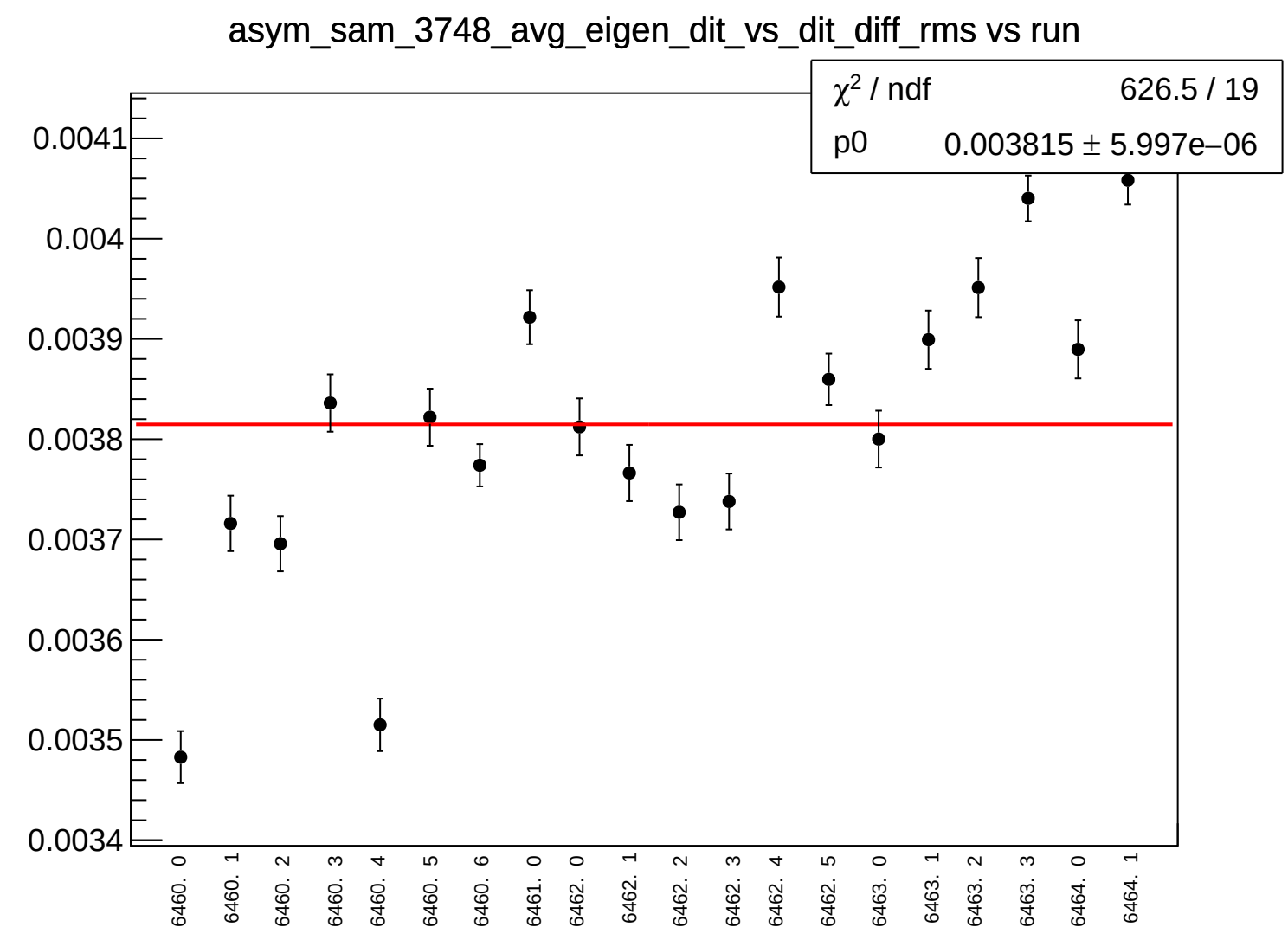

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5907 / 19
p0 35.42 ± 0.05605
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

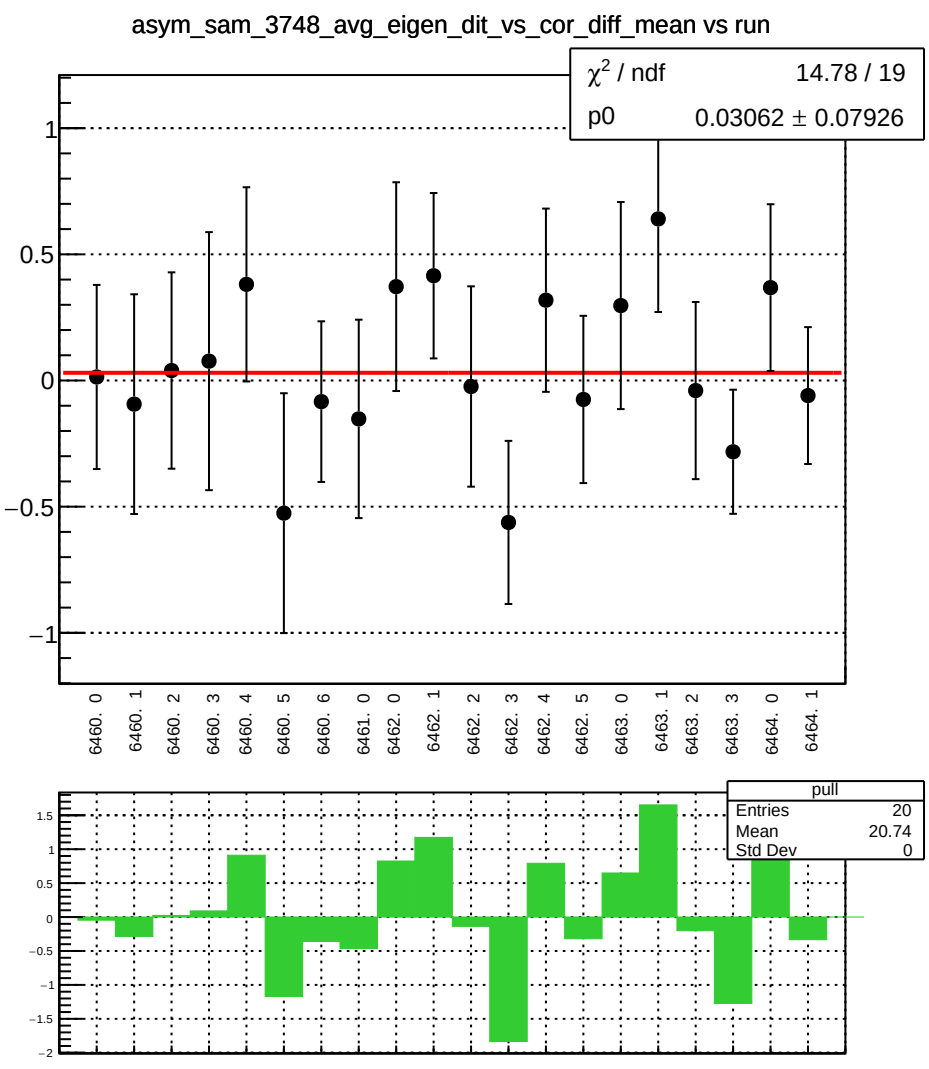

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.78 / 19
p0 0.03063 ± 0.07926
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 20.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.03576
Std Dev 0.8588
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

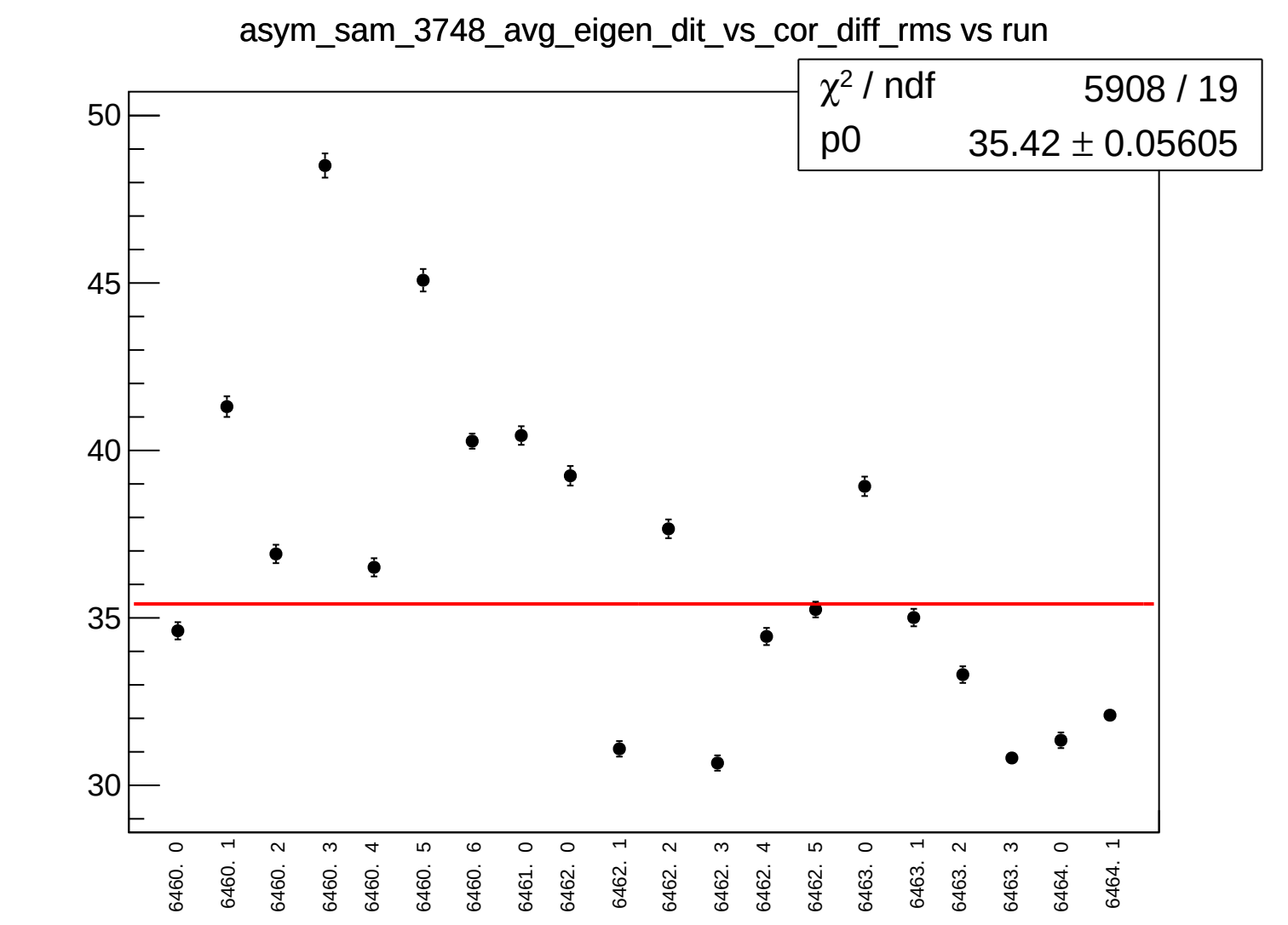

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5907 / 19
p0 35.42 ± 0.05605
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

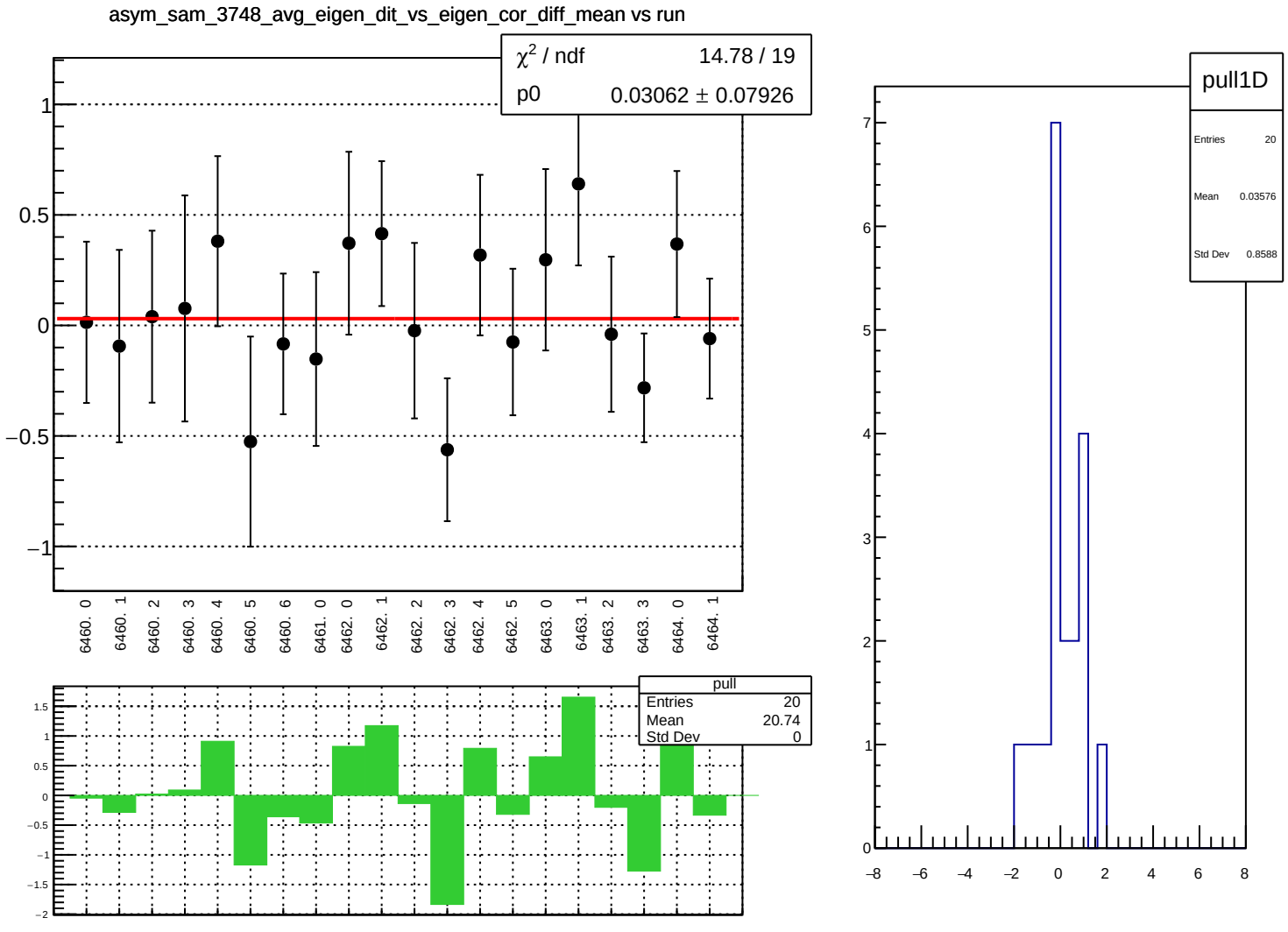

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 9.398 / 19
p0 −6.017e−06 ± 8.482e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.987
Std Dev 12.55
1
0.5
0
−0.5
−1

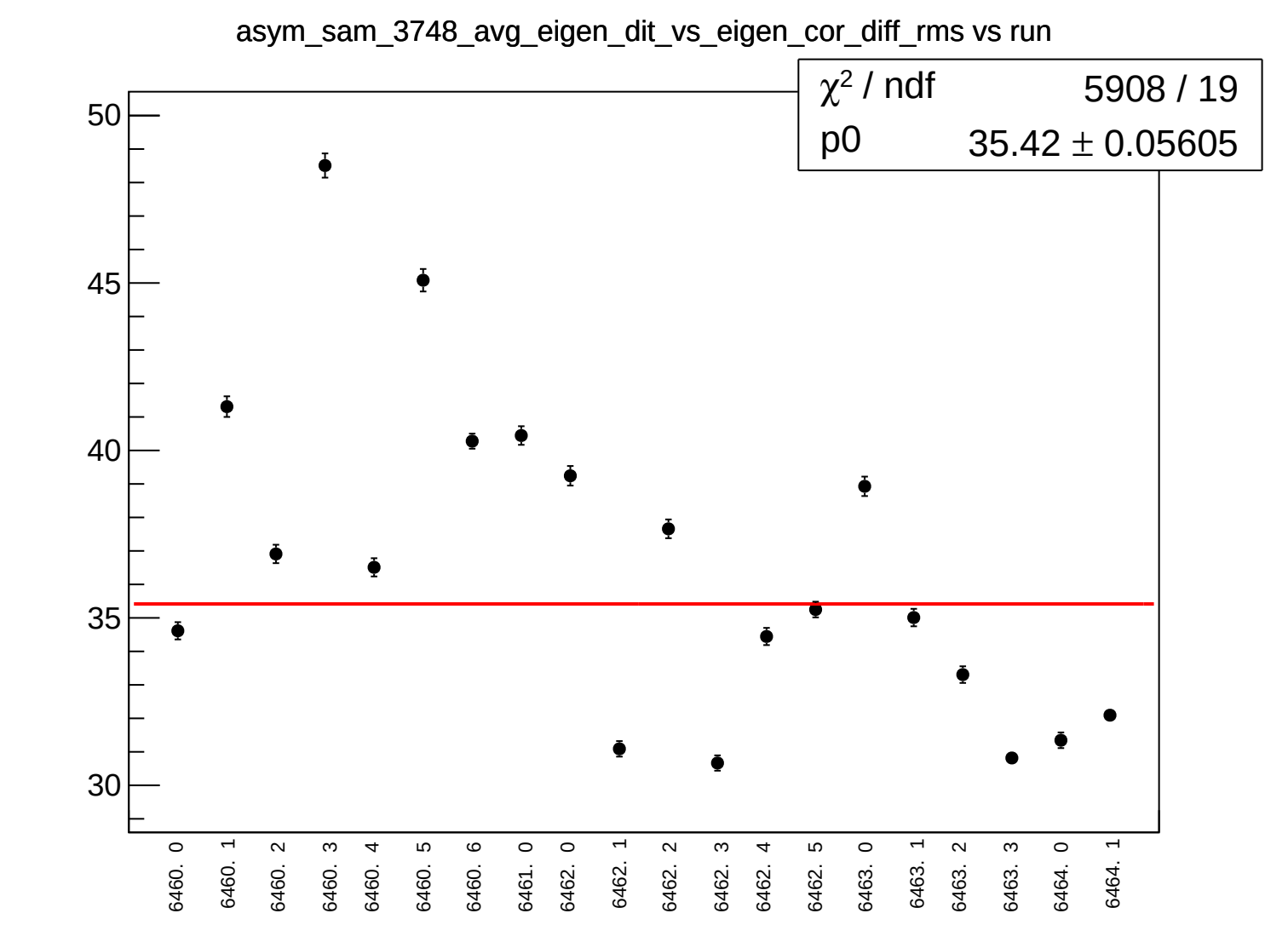

pull1D
Entries 20
Mean 0.02018
Std Dev 0.6852
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

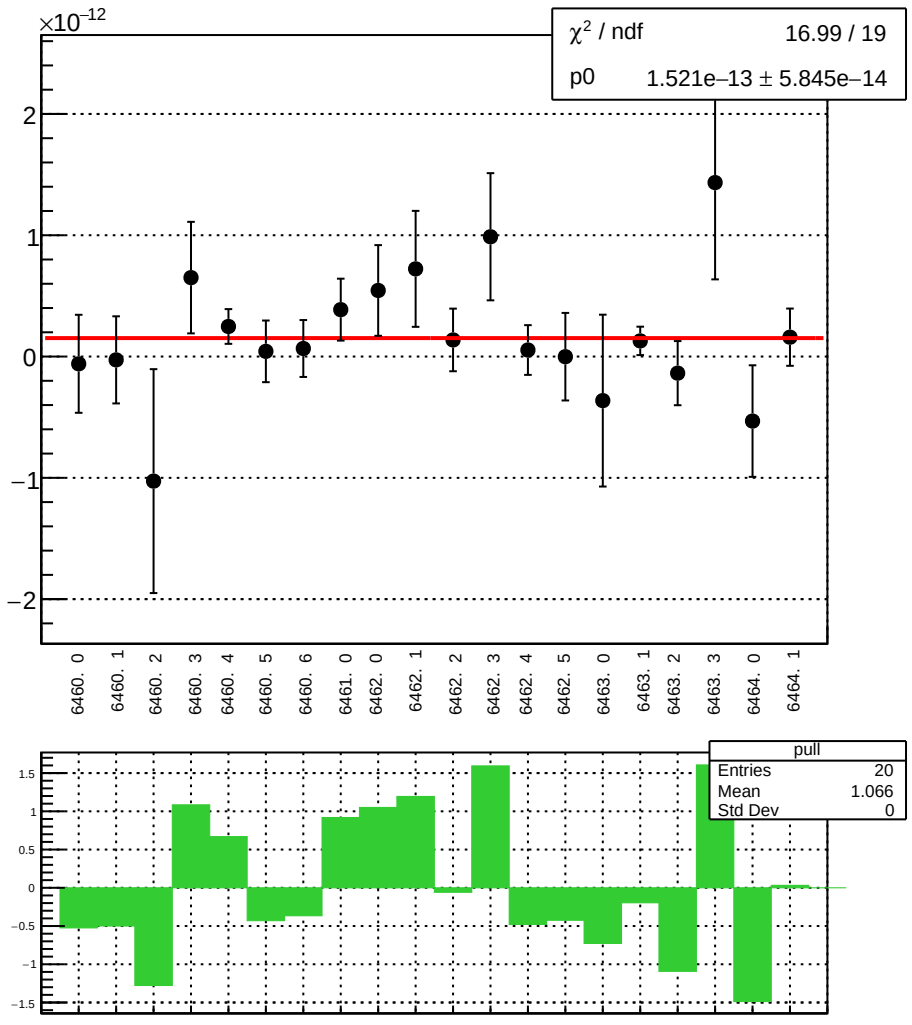

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 626.5 / 19
p0 0.003815 ± 5.997e−06
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

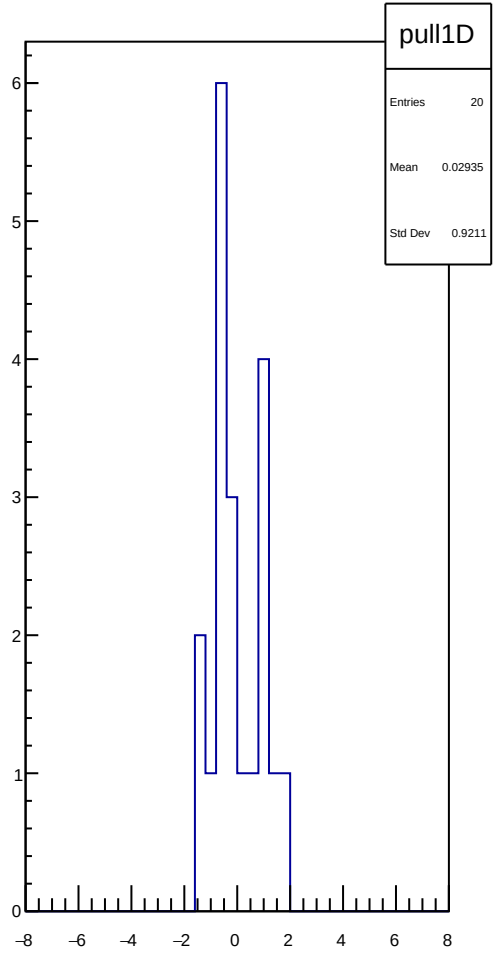

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 14.78 / 19
p0 0.03062 ± 0.07926
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 20.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.03576
Std Dev 0.8588
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

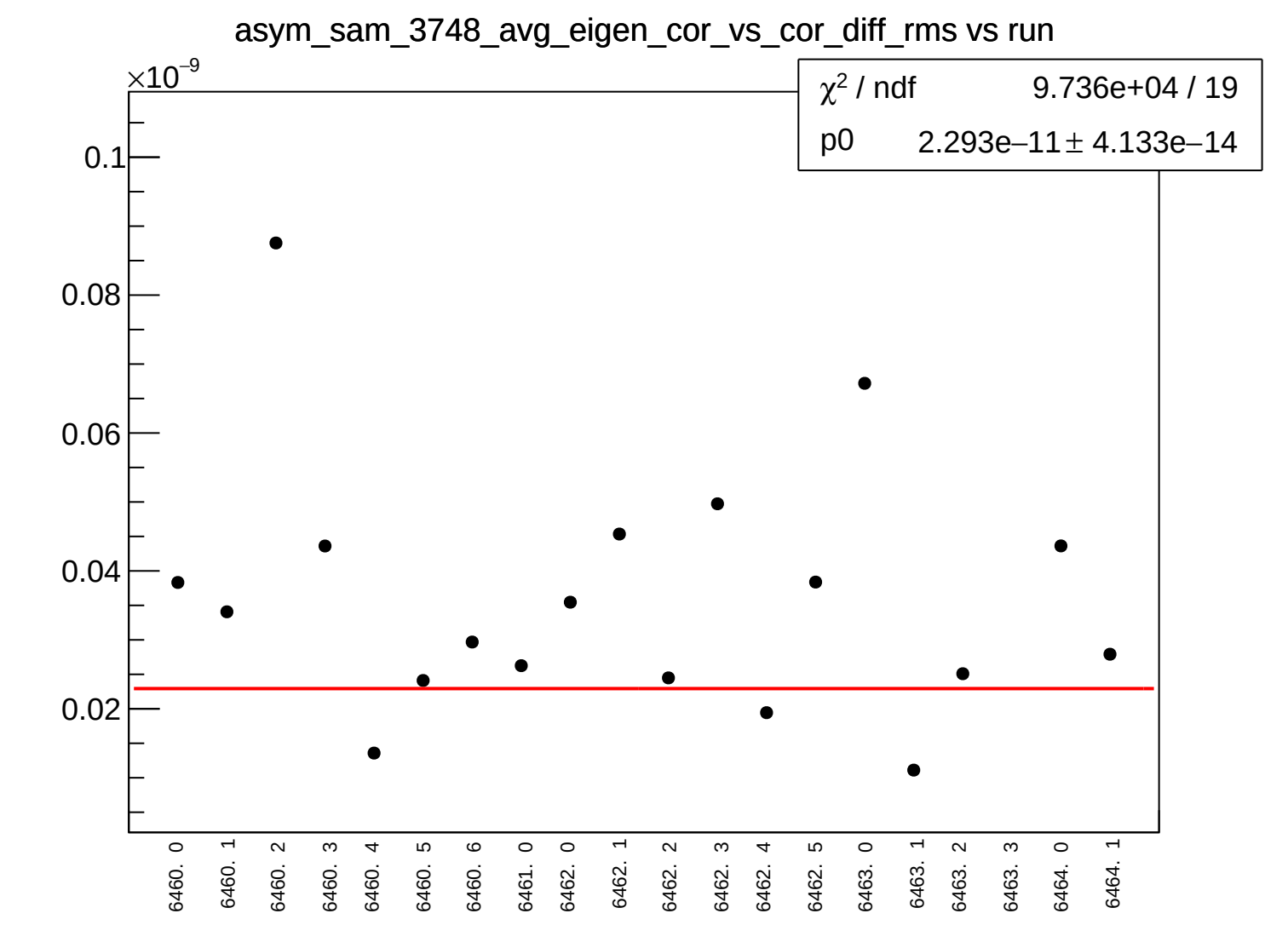

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5908 / 19
p0 35.42 ± 0.05605
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

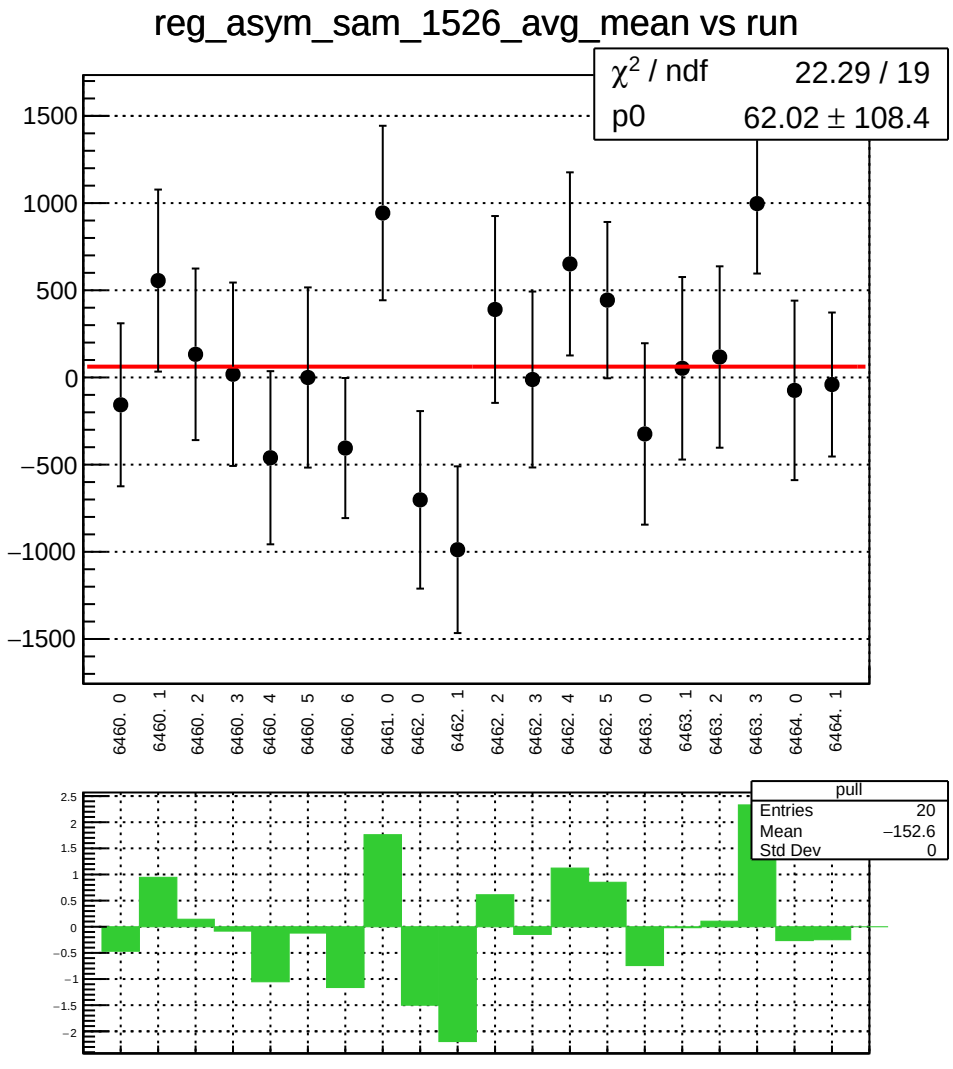

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.78 / 19
p0 0.03062 ± 0.07926
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 20.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.03576
Std Dev 0.8588
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

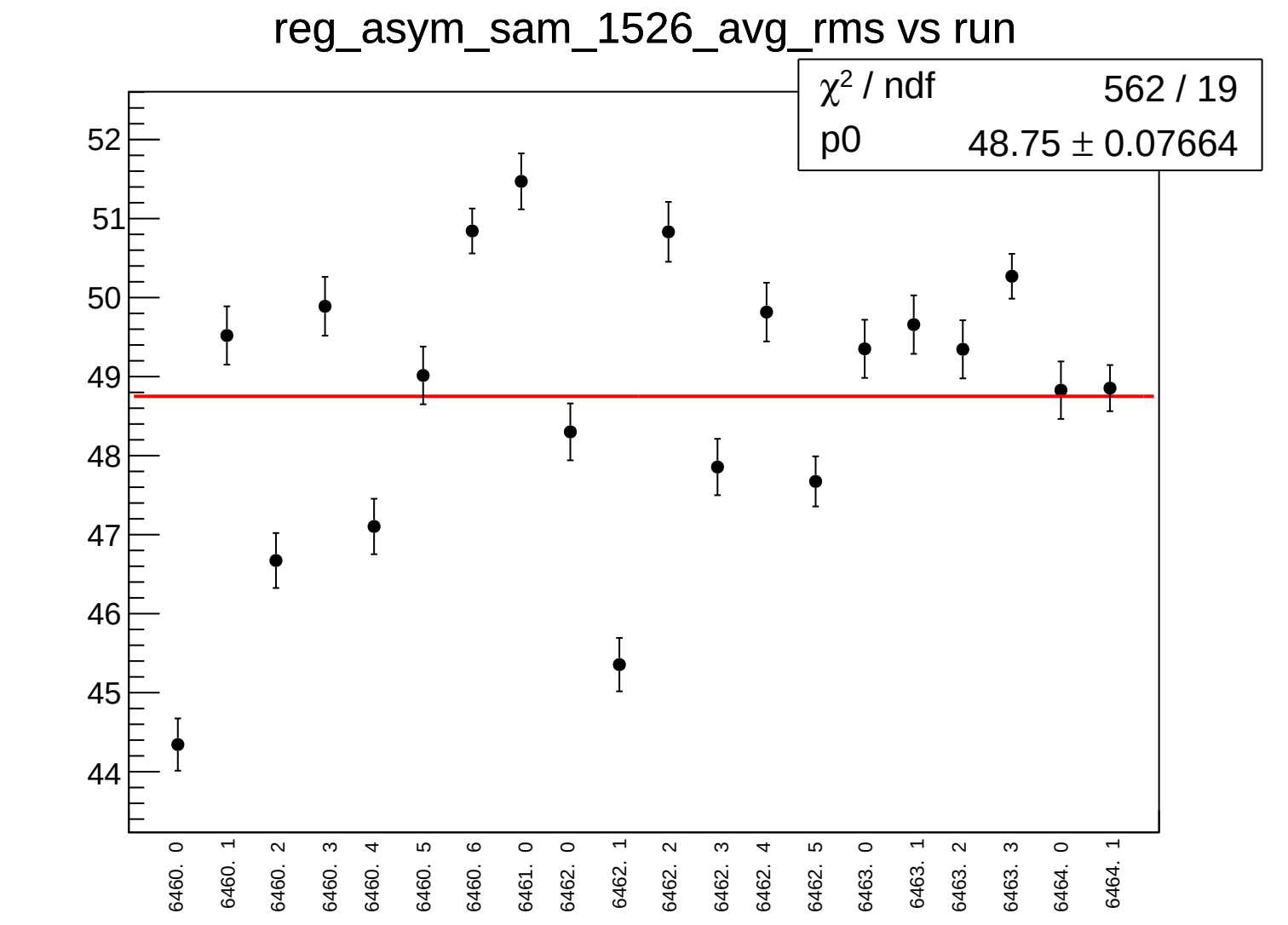

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5908 / 19
p0 35.42 ± 0.05605
50
45
40
35
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

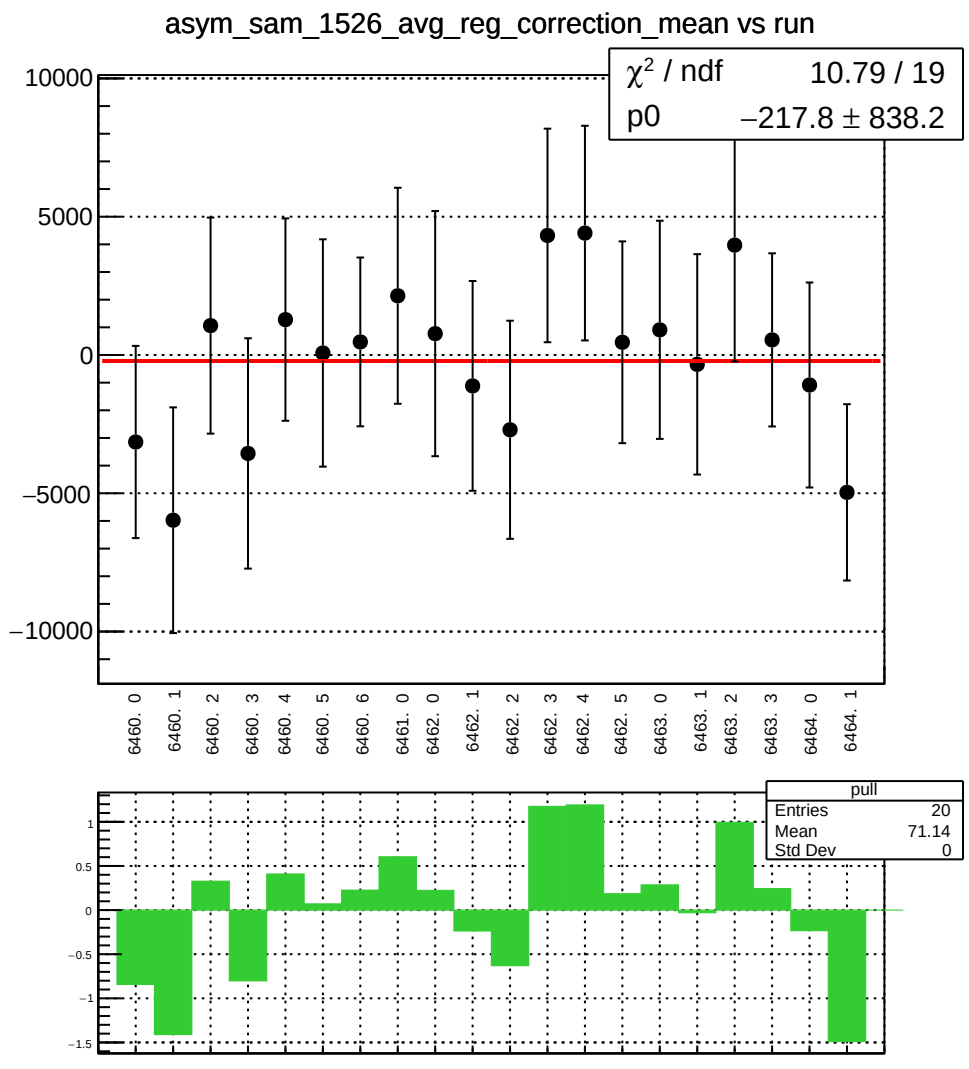

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.99 / 19
p0 1.521e−13 ± 5.845e−14
2
1
0
−1
−2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.066
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

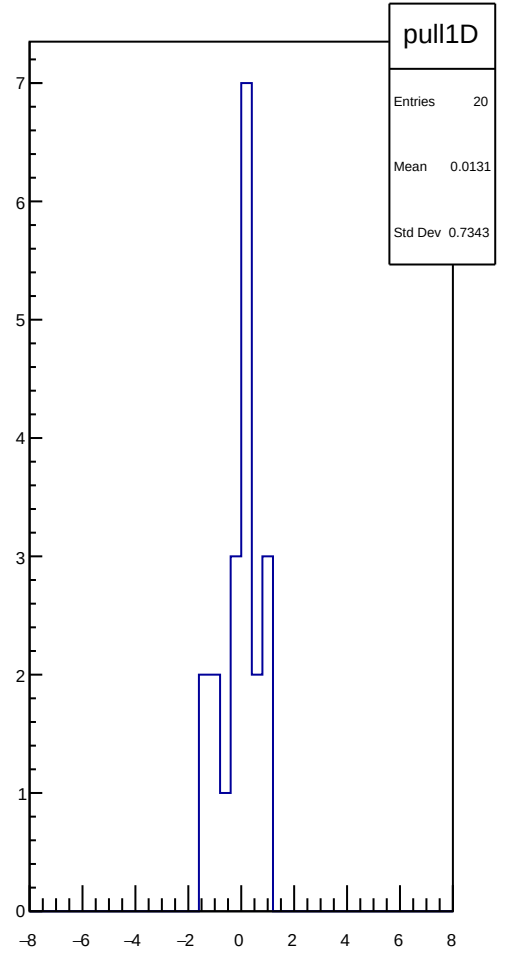

pull1D
Entries 20
Mean 0.02935
Std Dev 0.9211
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

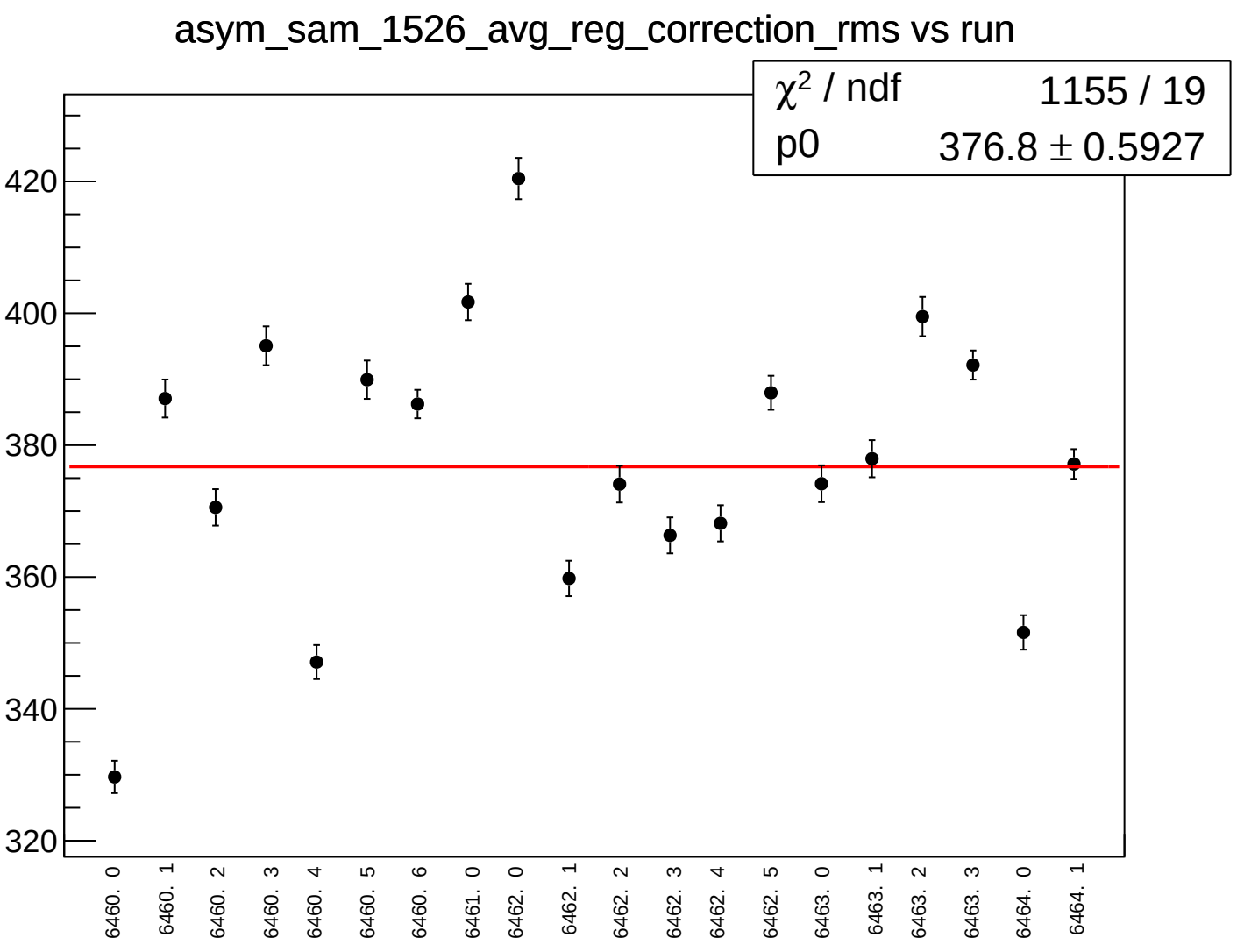

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.736e+04 / 19
p0 2.293e−11 ± 4.133e−14
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

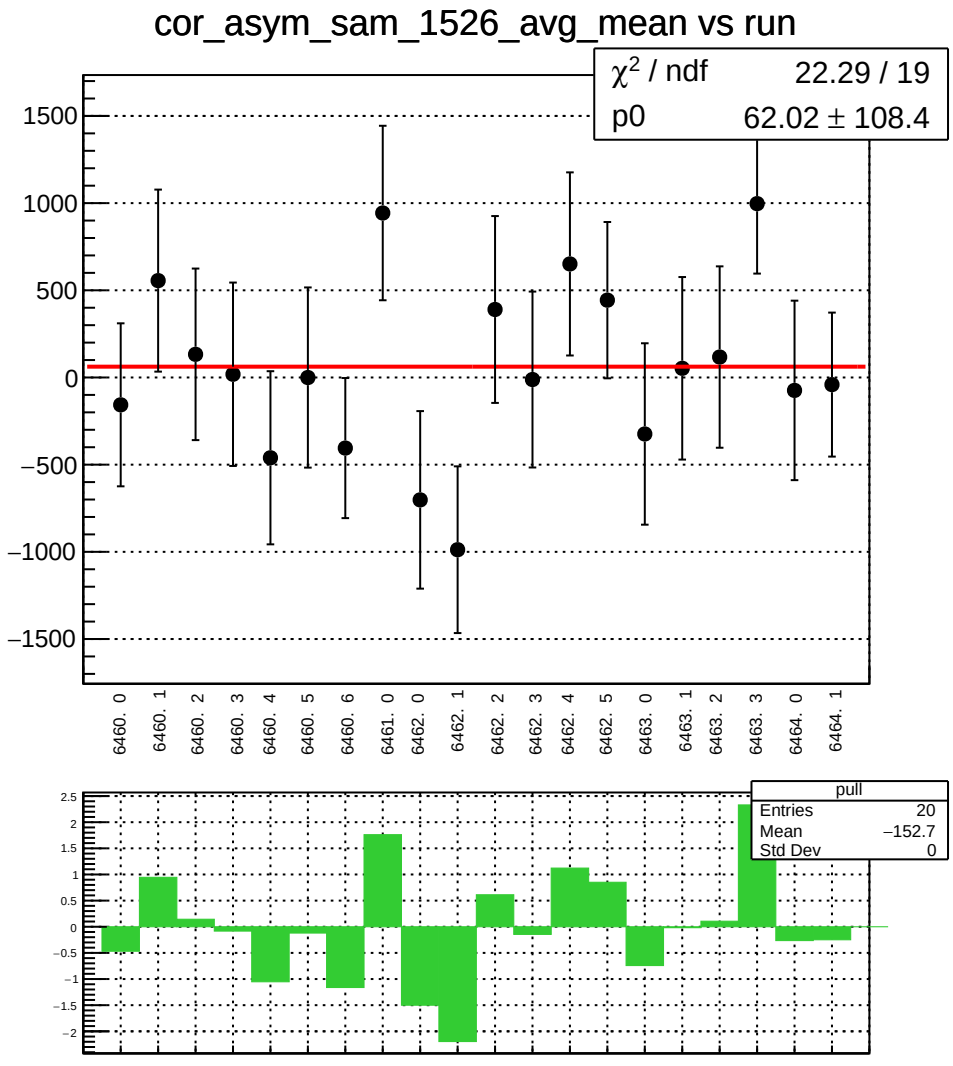

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 22.29 / 19
p0 62.02 ± 108.4
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −152.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.006524
Std Dev 1.056
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

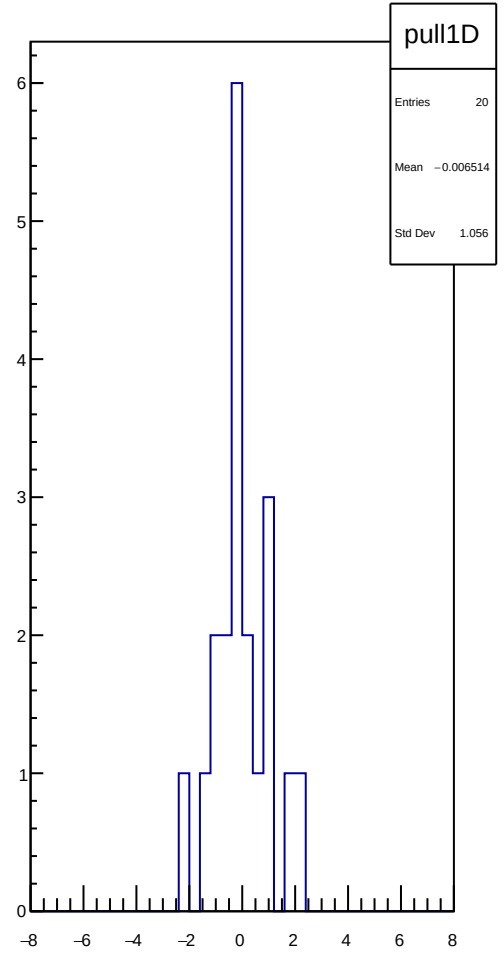

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 562 / 19
p0 48.75 ± 0.07664
52
51
50
49
48
47
46
45
44
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

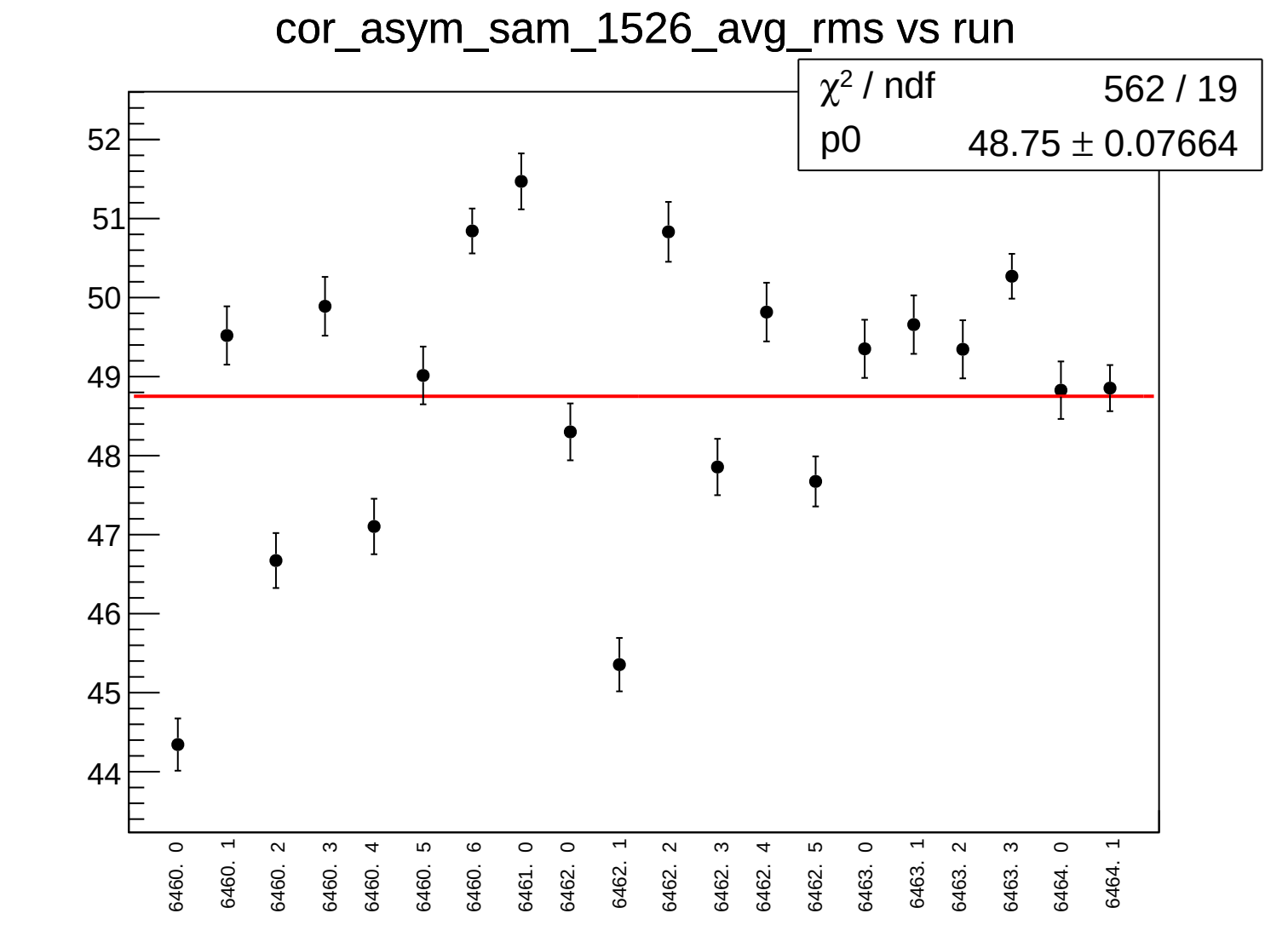

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 10.79 / 19
p0 −217.8 ± 838.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 71.14
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

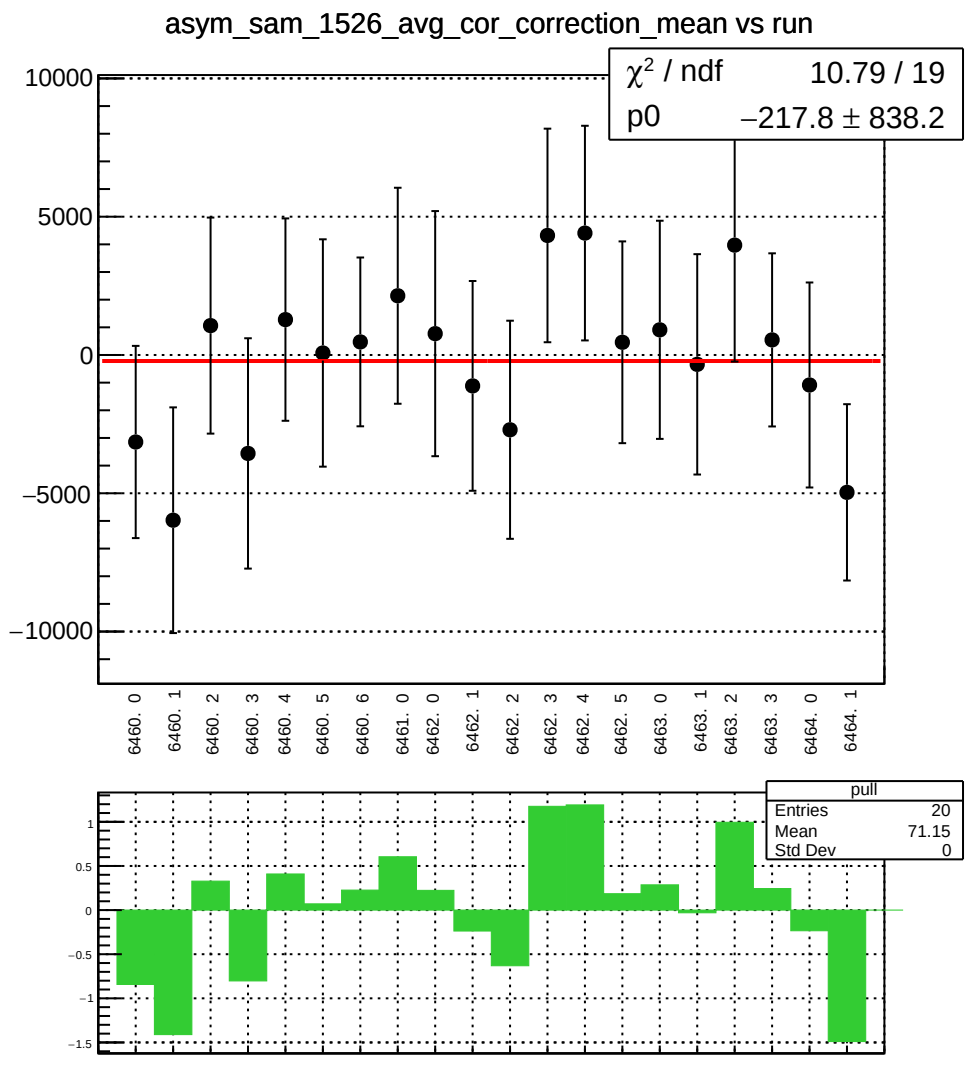

pull1D
Entries 20
Mean 0.0131
Std Dev 0.7343
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

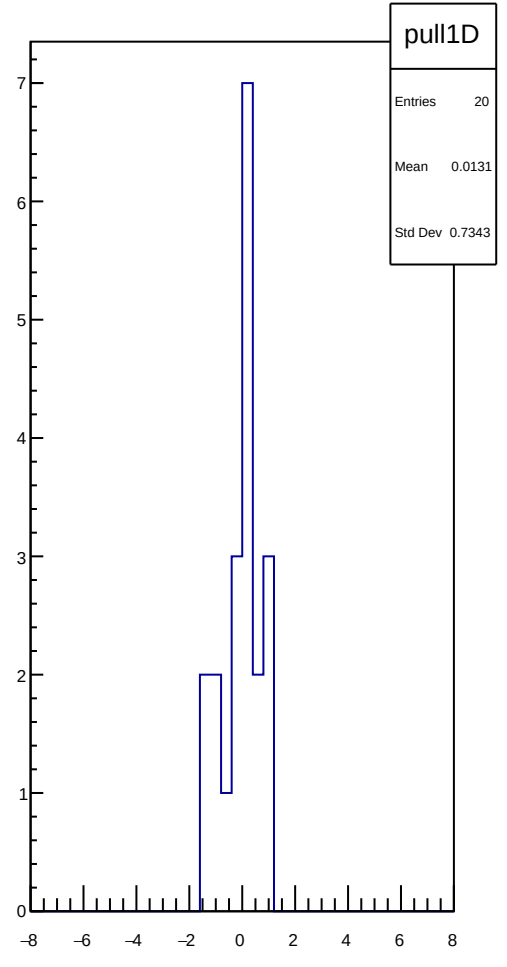

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1155 / 19
p0 376.8 ± 0.5927
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

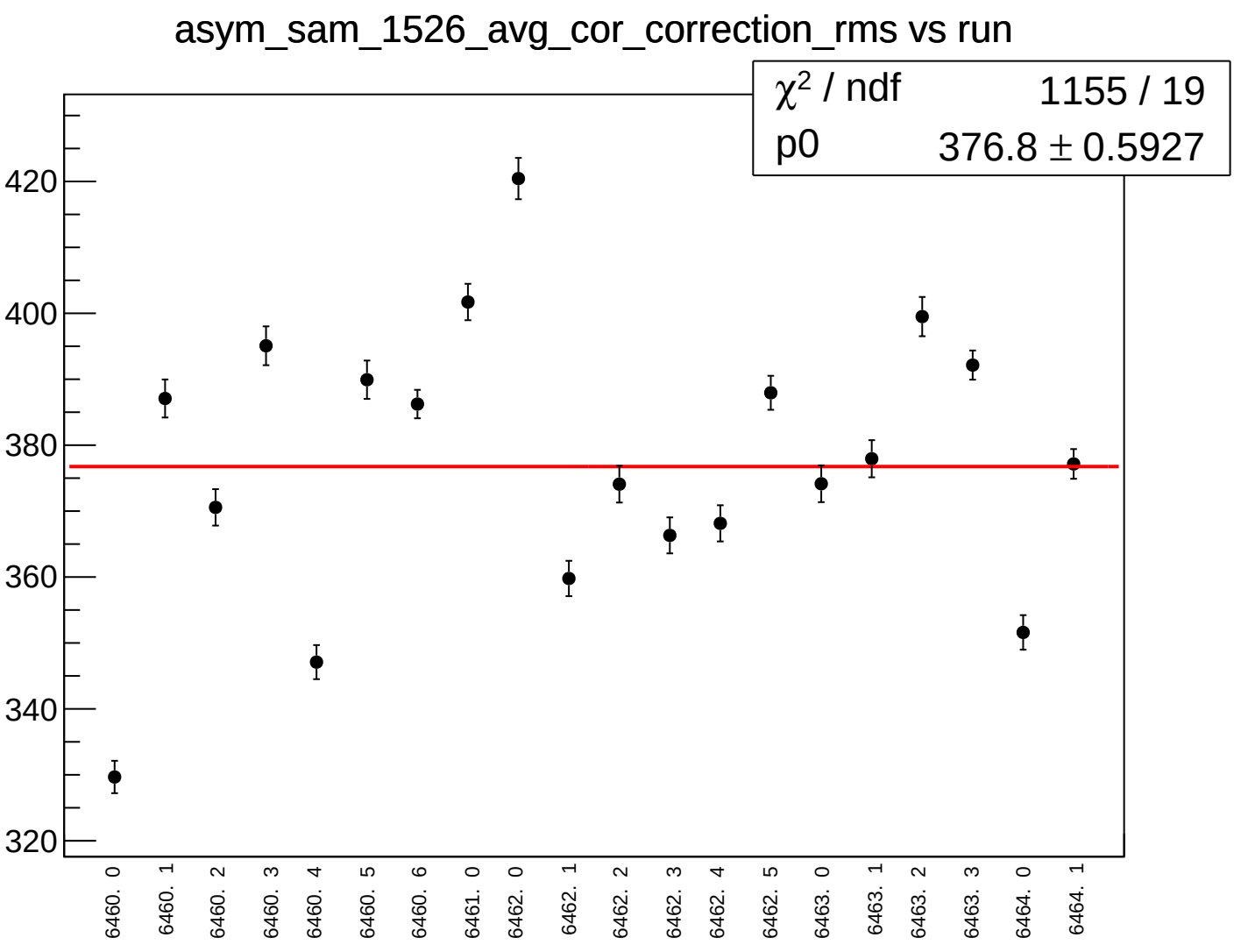

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 22.29 / 19
p0 62.02 ± 108.4
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −152.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

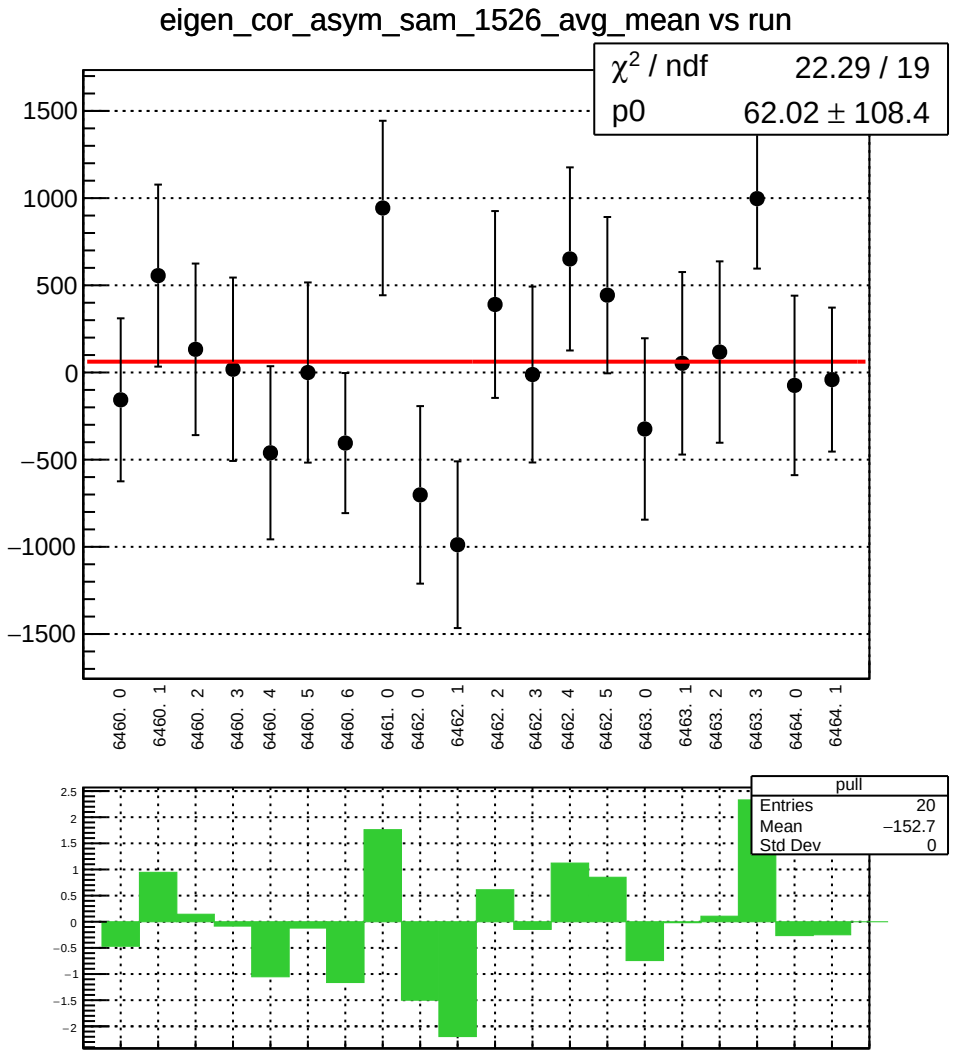

pull1D
Entries 20
Mean −0.006514
Std Dev 1.056
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

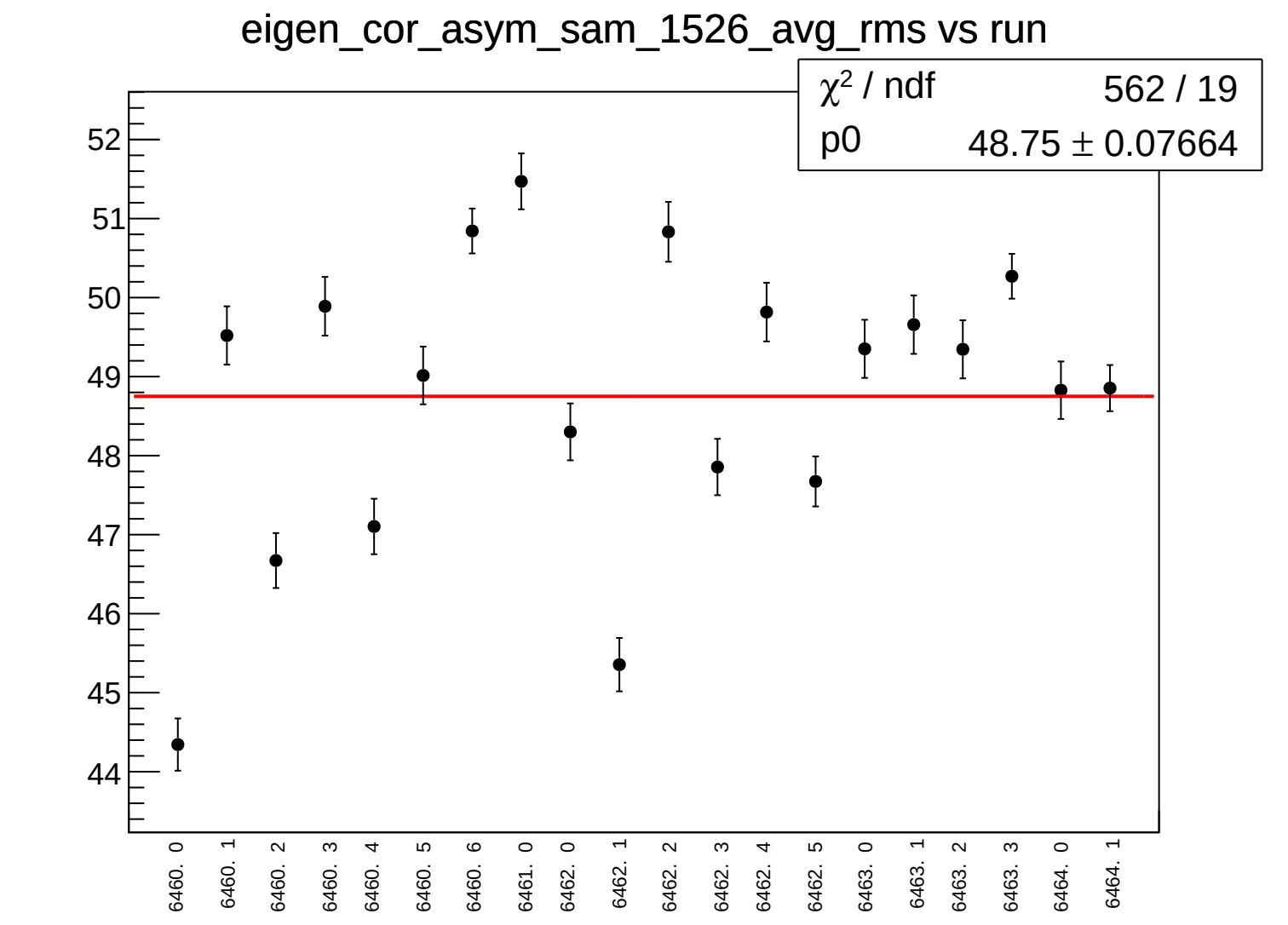

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 562 / 19
p0 48.75 ± 0.07664
52
51
50
49
48
47
46
45
44
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

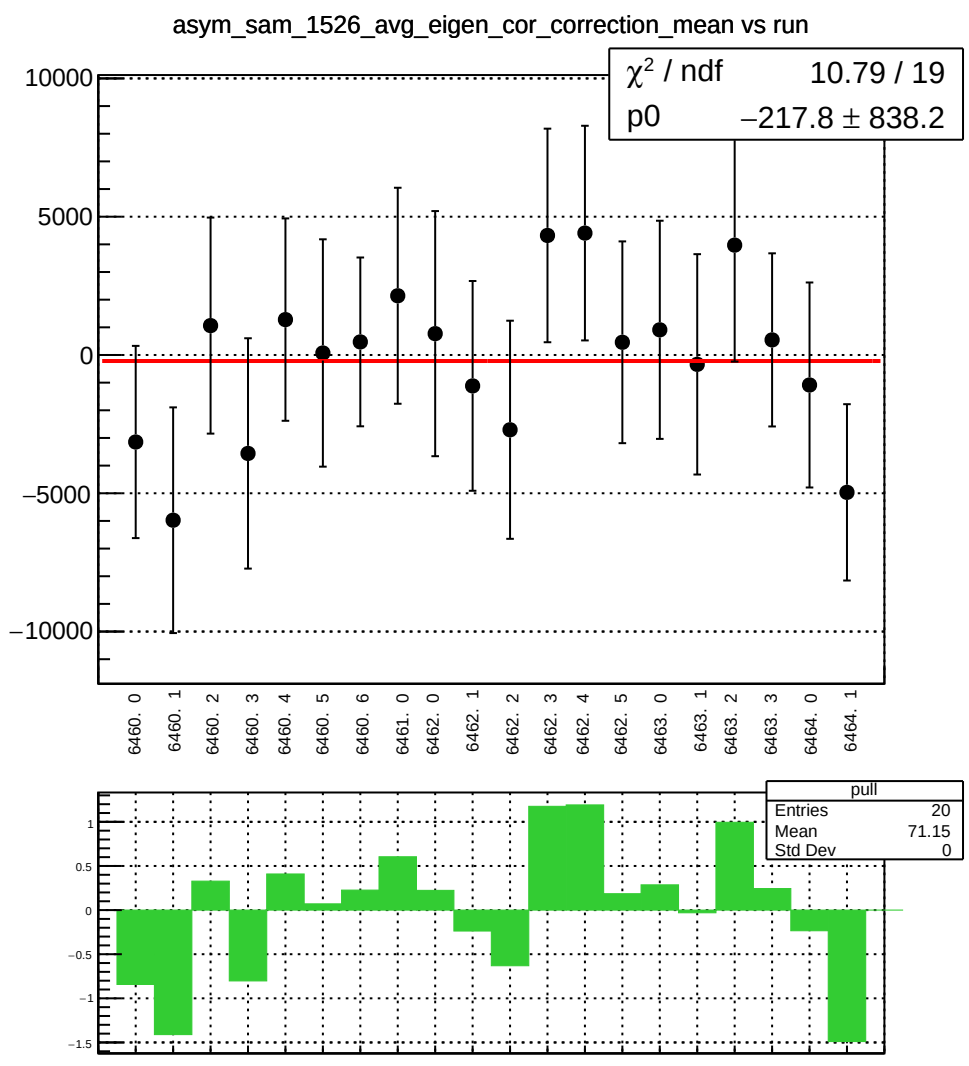

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 10.79 / 19
p0 −217.8 ± 838.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 71.15
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

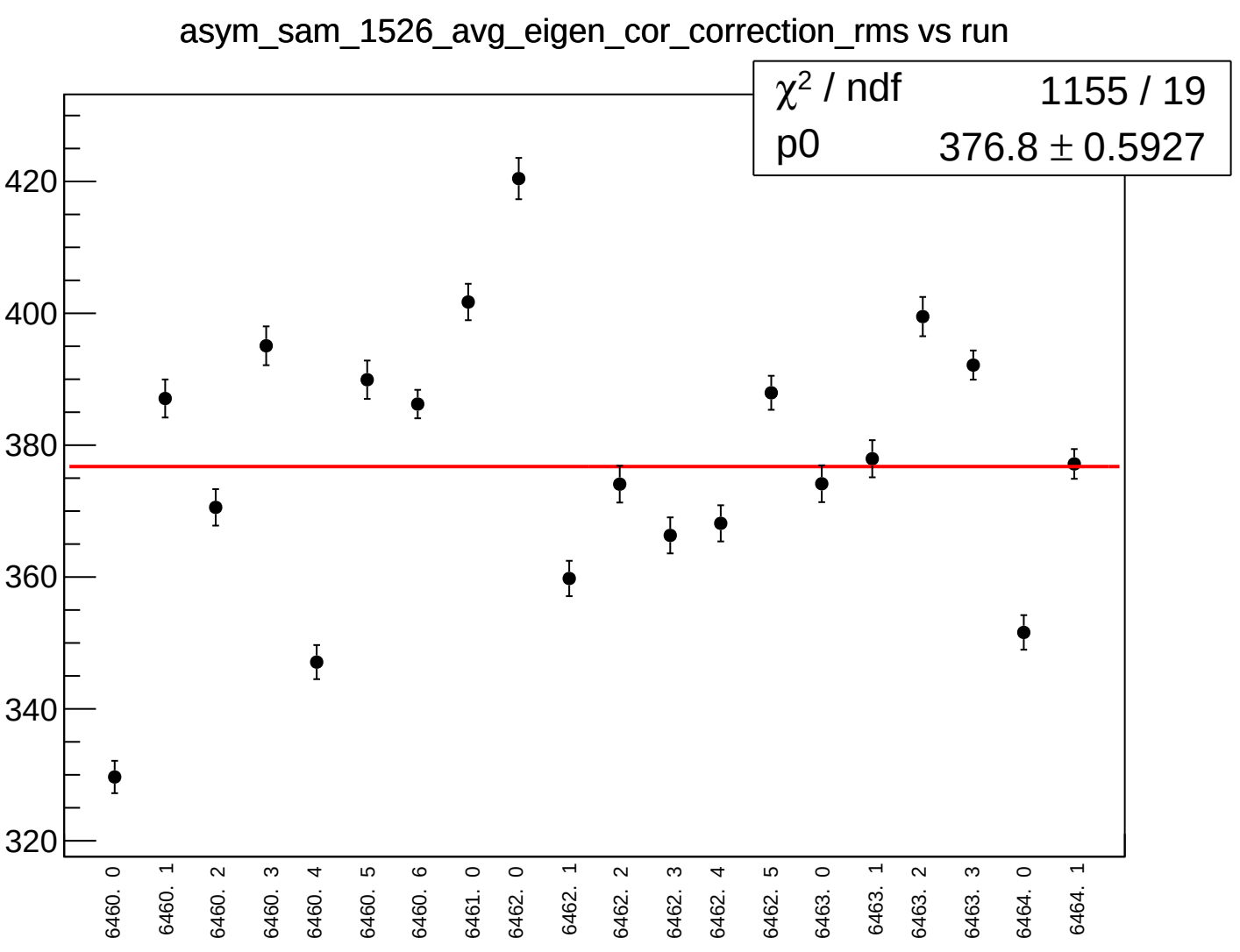

pull1D
Entries 20
Mean 0.0131
Std Dev 0.7343
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

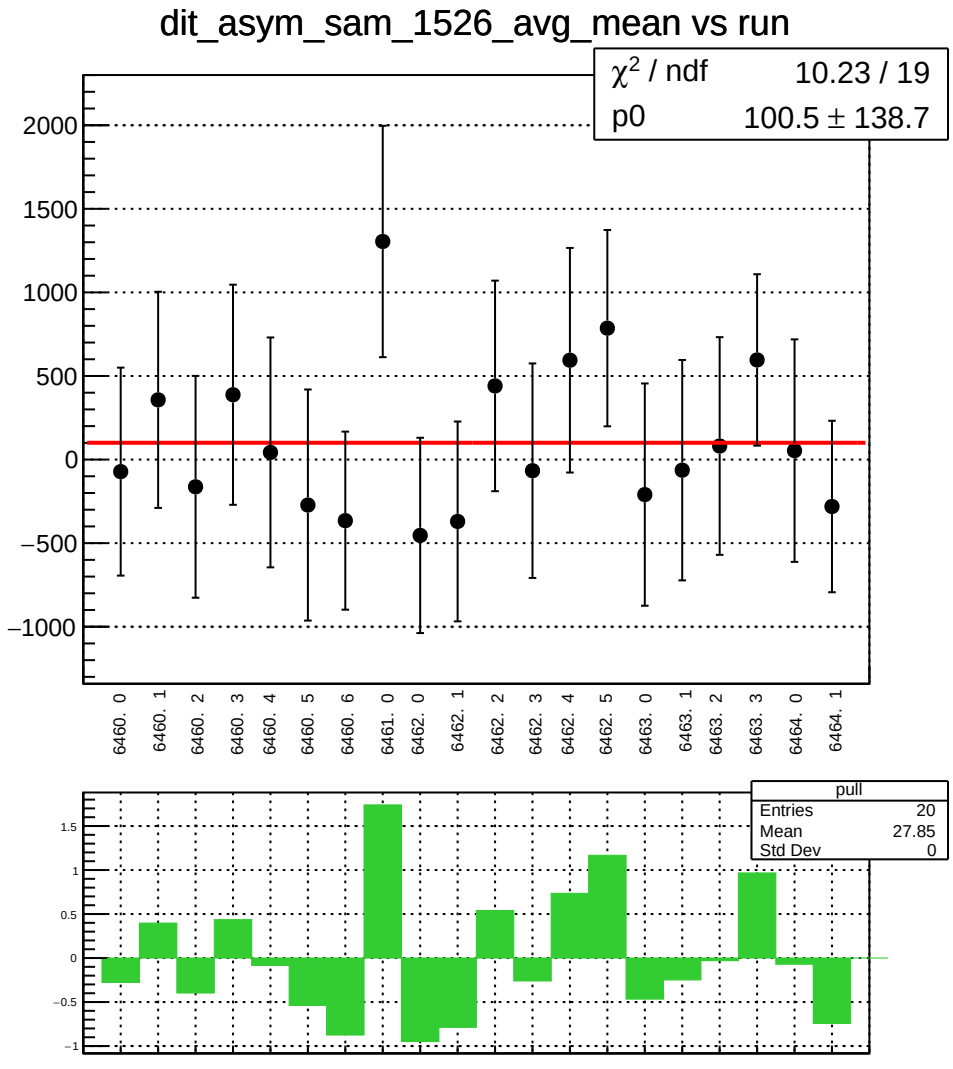

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1155 / 19
p0 376.8 ± 0.5927
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

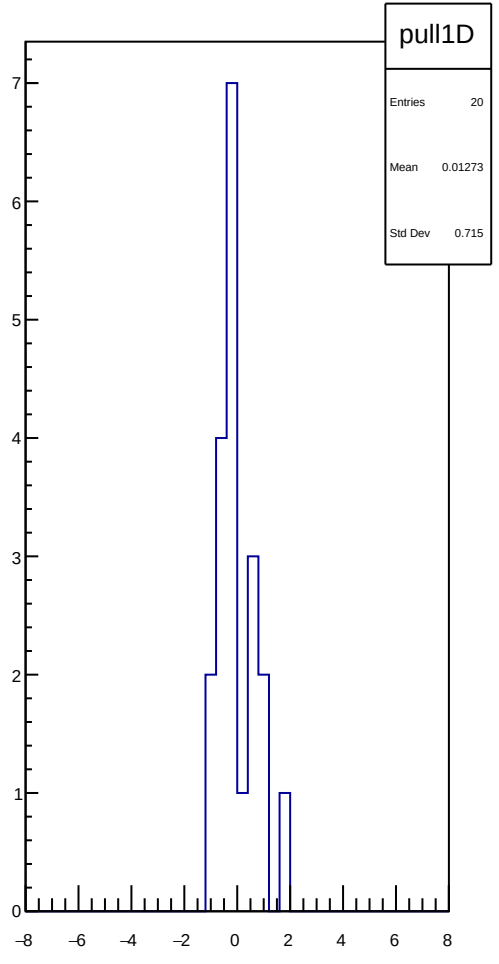

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 22.29 / 19
p0 62.02 ± 108.4
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −152.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.006514
Std Dev 1.056
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

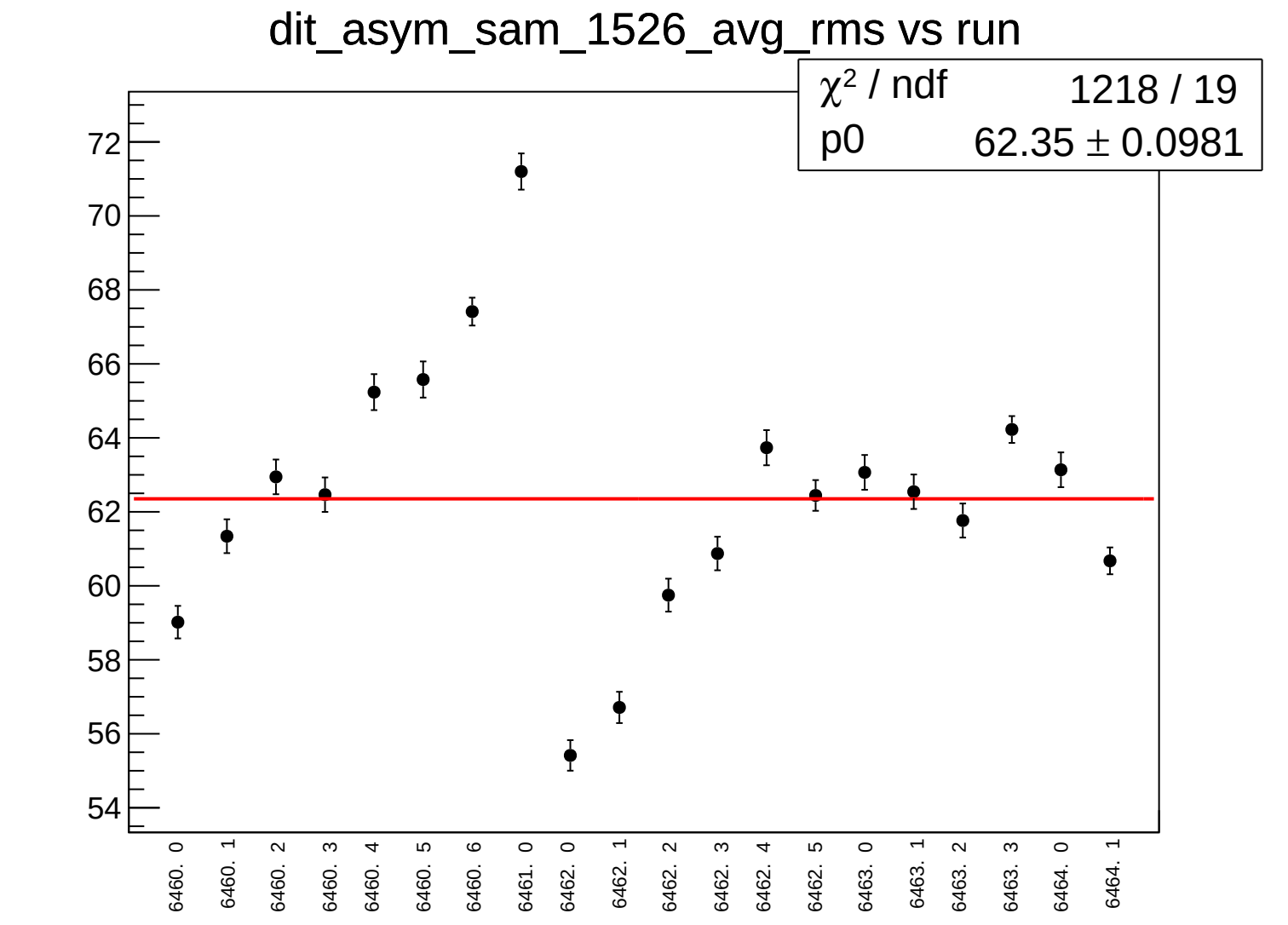

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 562 / 19
p0 48.75 ± 0.07664
52
51
50
49
48
47
46
45
44
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

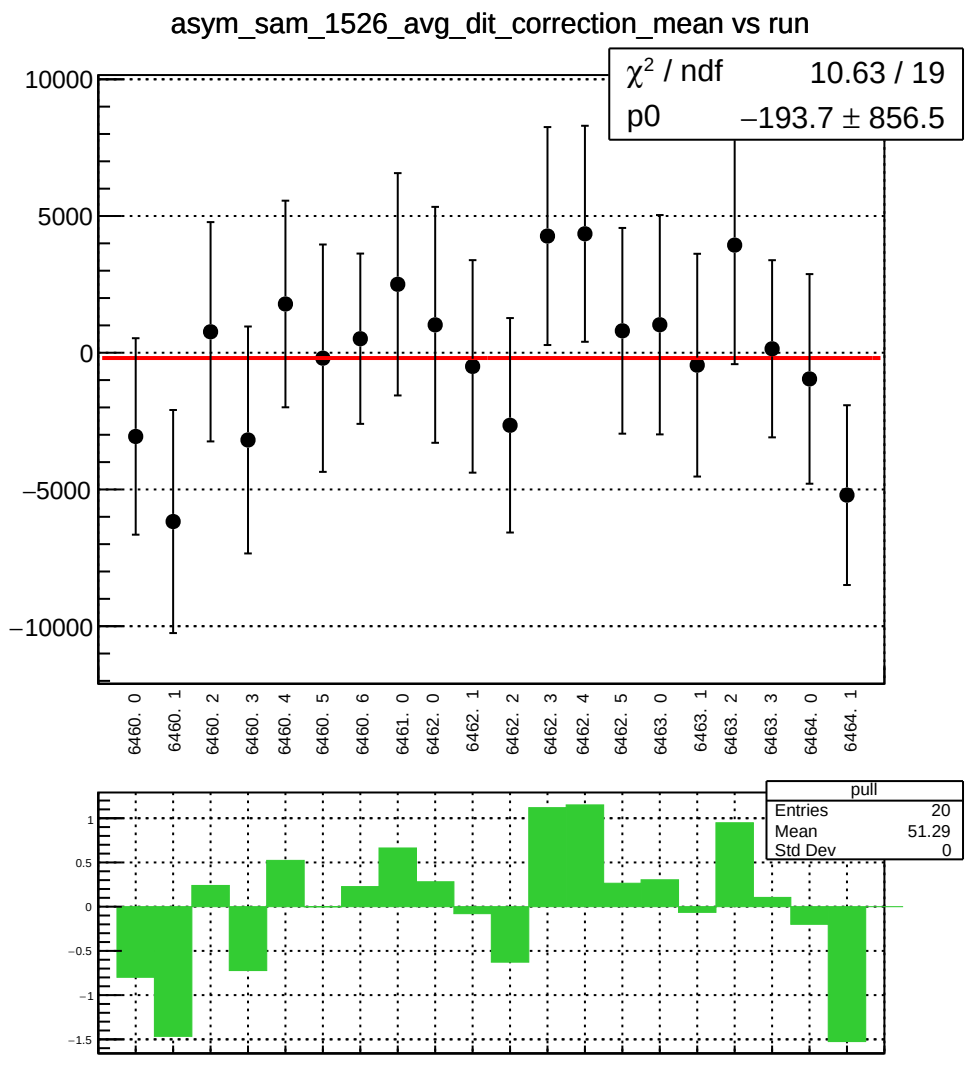

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.79 / 19
p0 −217.8 ± 838.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 71.15
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0131
Std Dev 0.7343
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

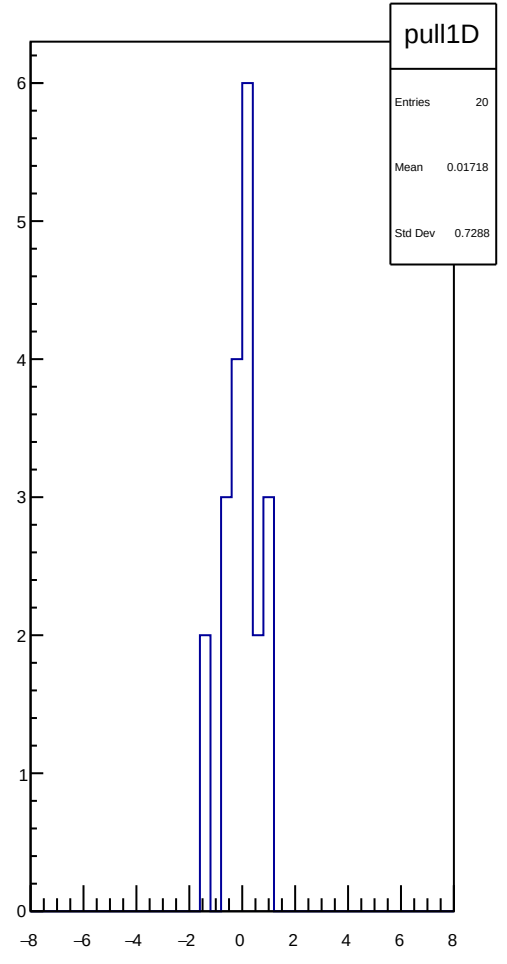

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1155 / 19
p0 376.8 ± 0.5927
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

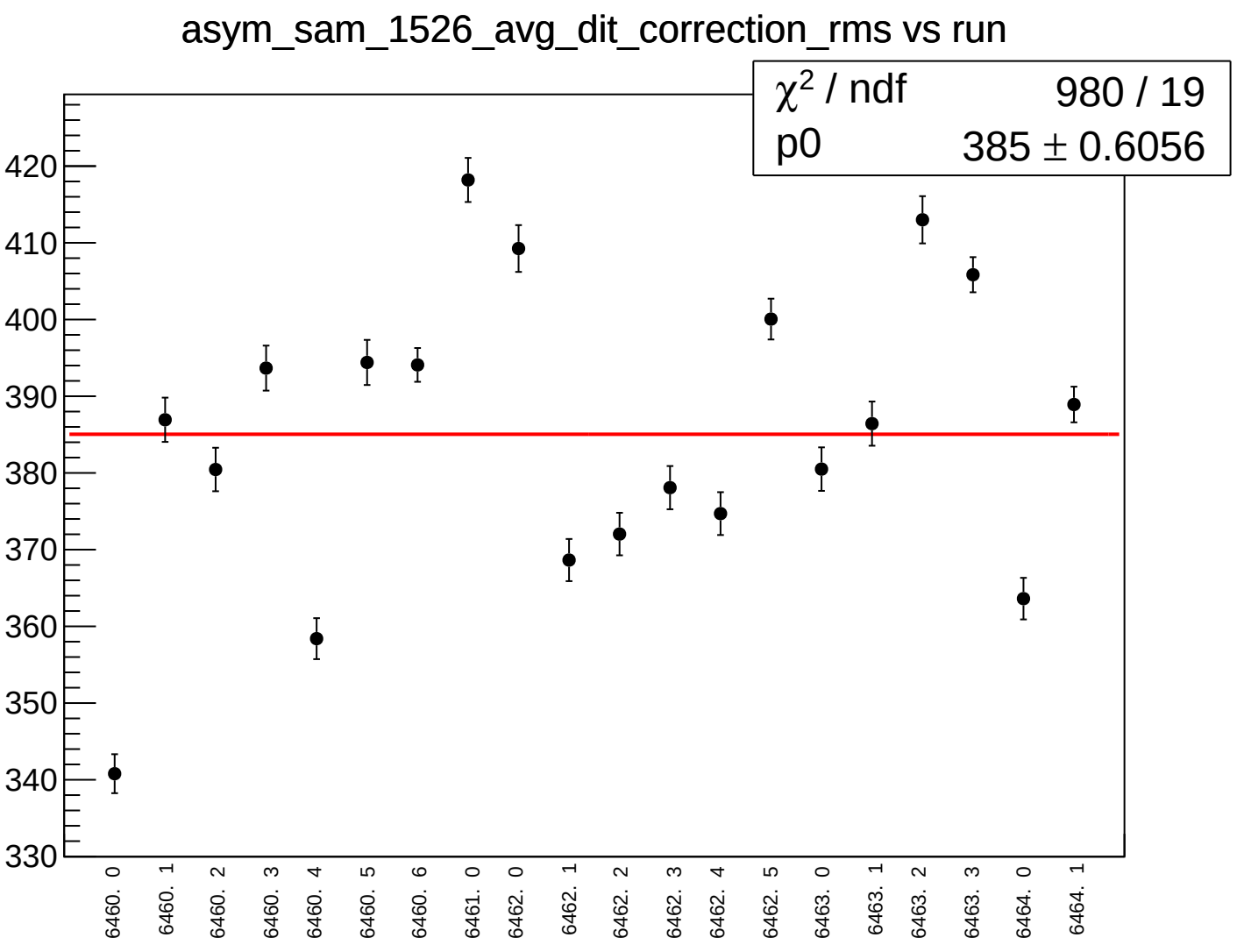

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 10.23 / 19
p0 100.5 ± 138.7
2000
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1

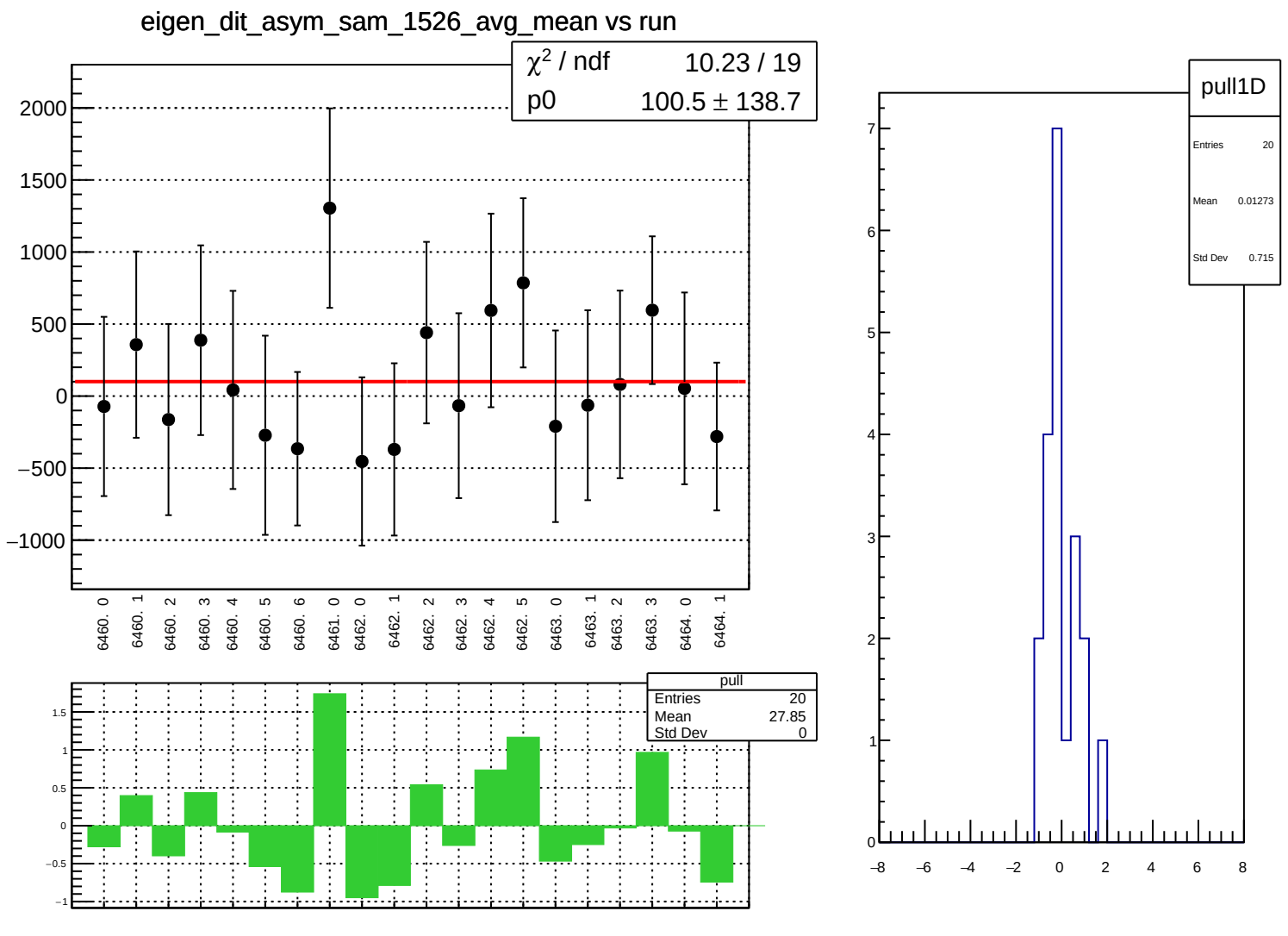

pull1D
Entries 20
Mean 0.01273
Std Dev 0.715
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

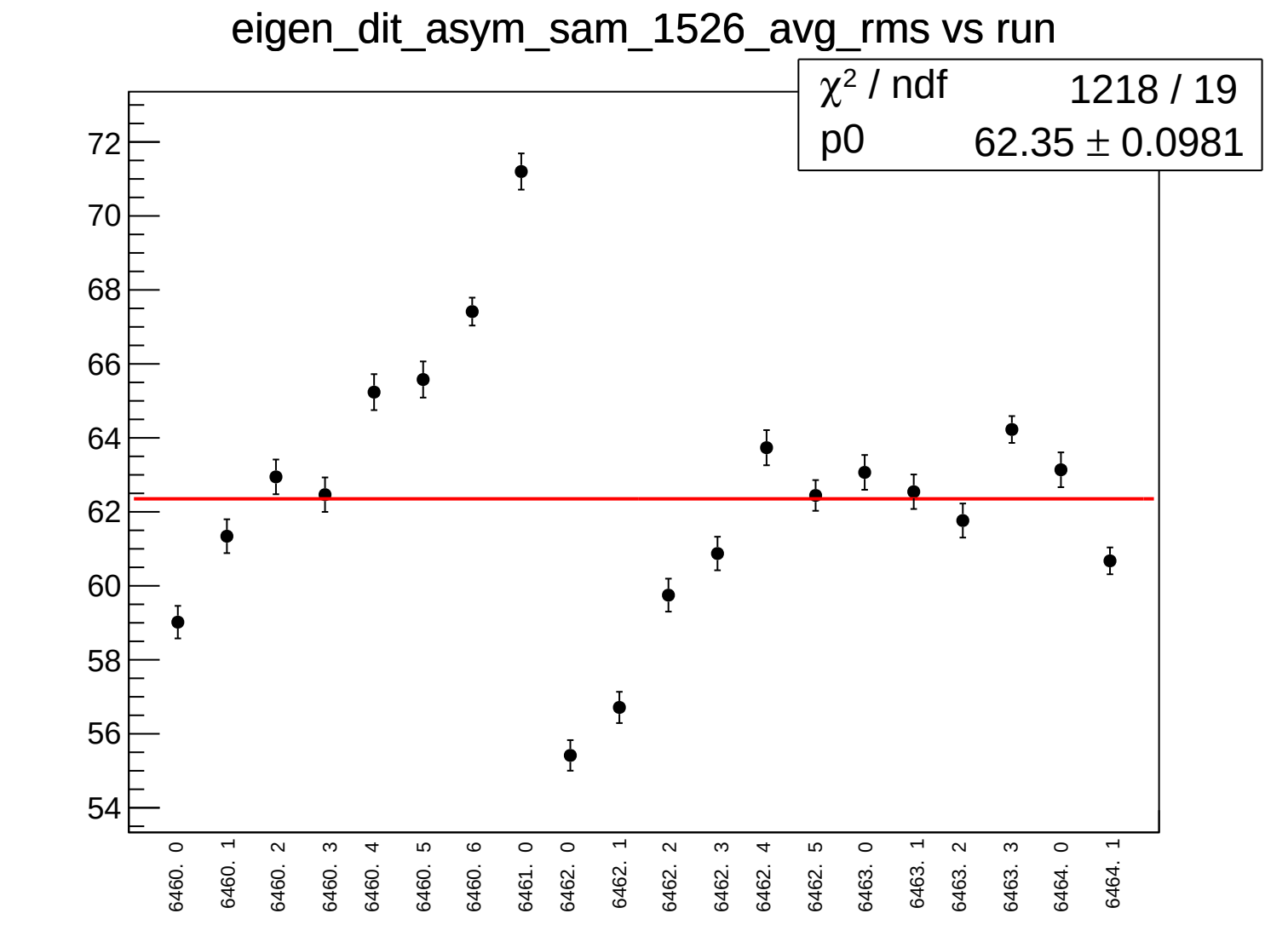

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1218 / 19
p0 62.35 ± 0.0981
72
70
68
66
64
62
60
58
56
54
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

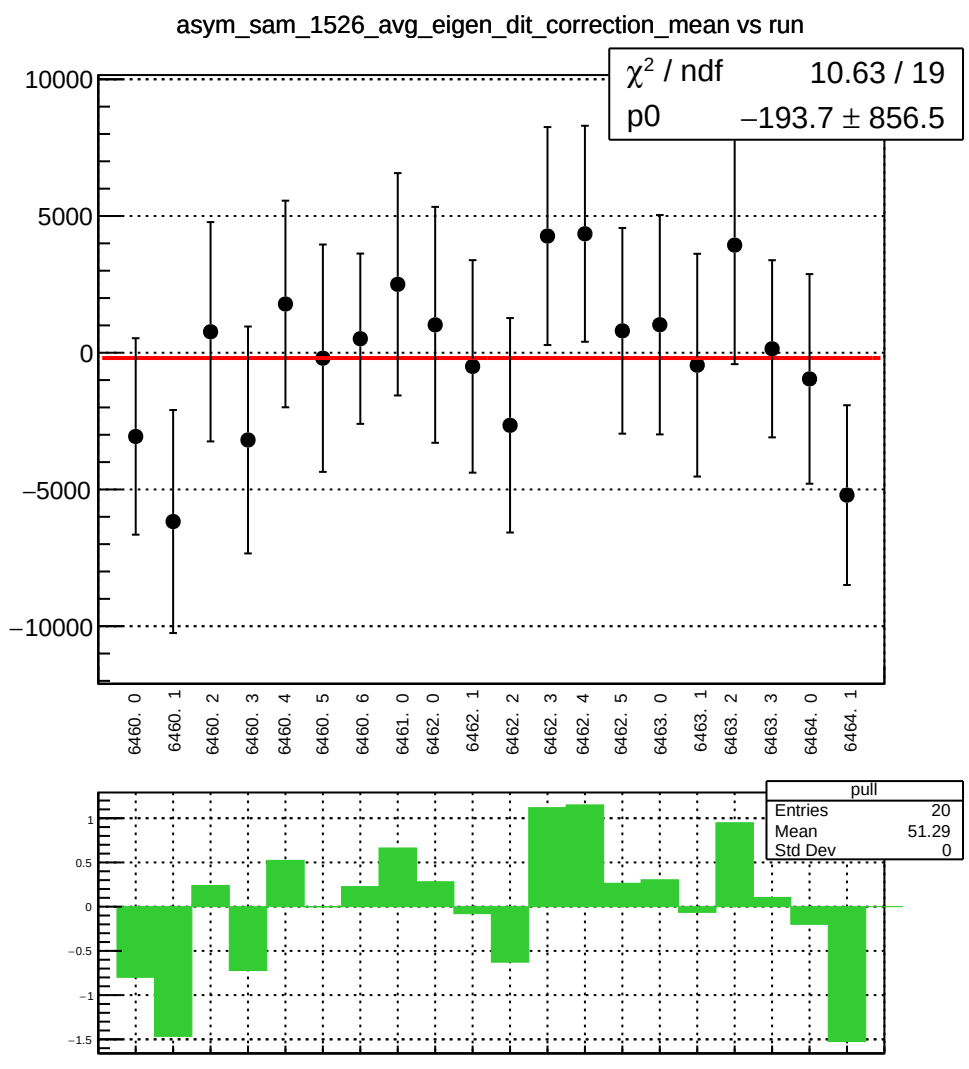

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 10.63 / 19
p0 −193.7 ± 856.5
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 51.29
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

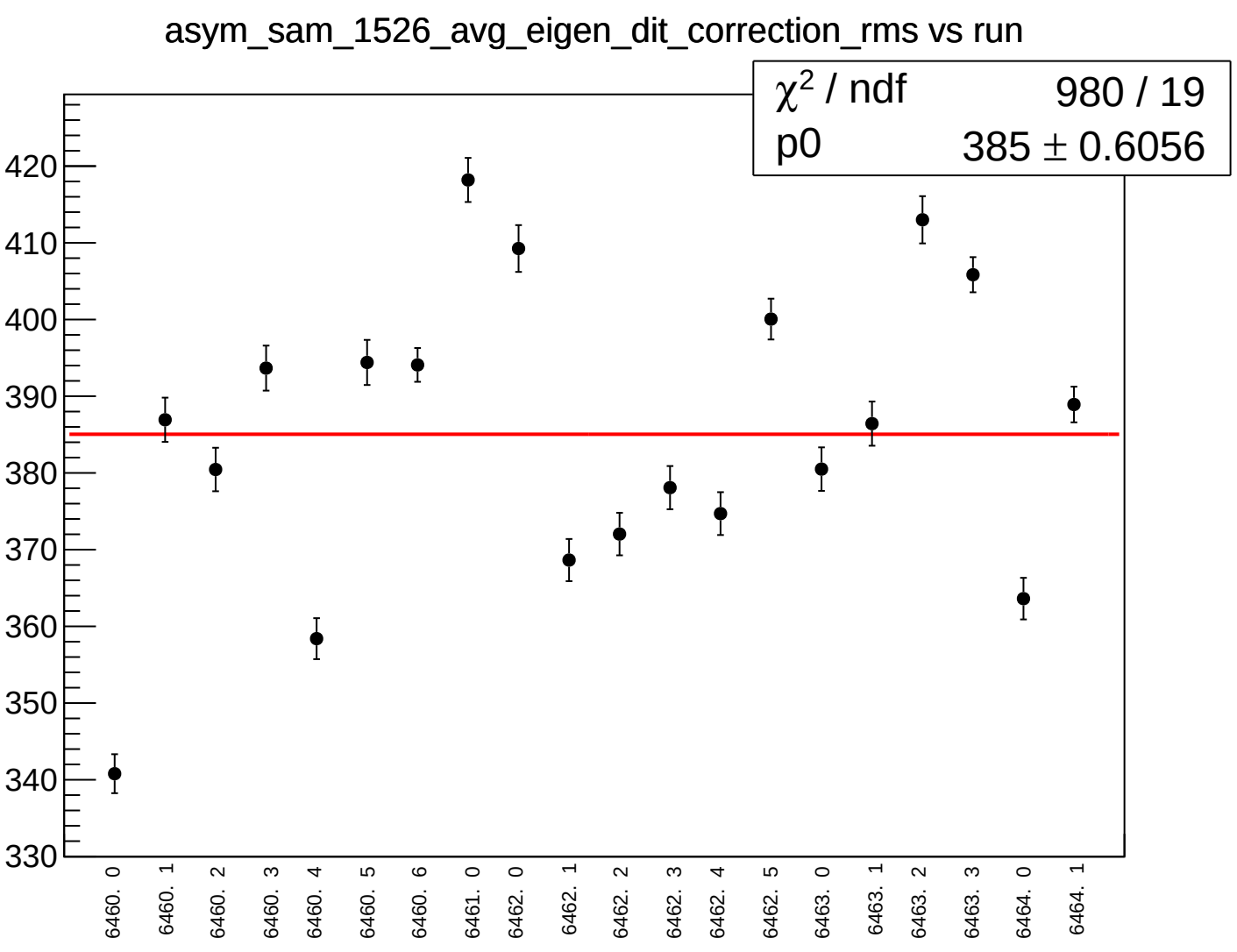

pull1D
Entries 20
Mean 0.01718
Std Dev 0.7288
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

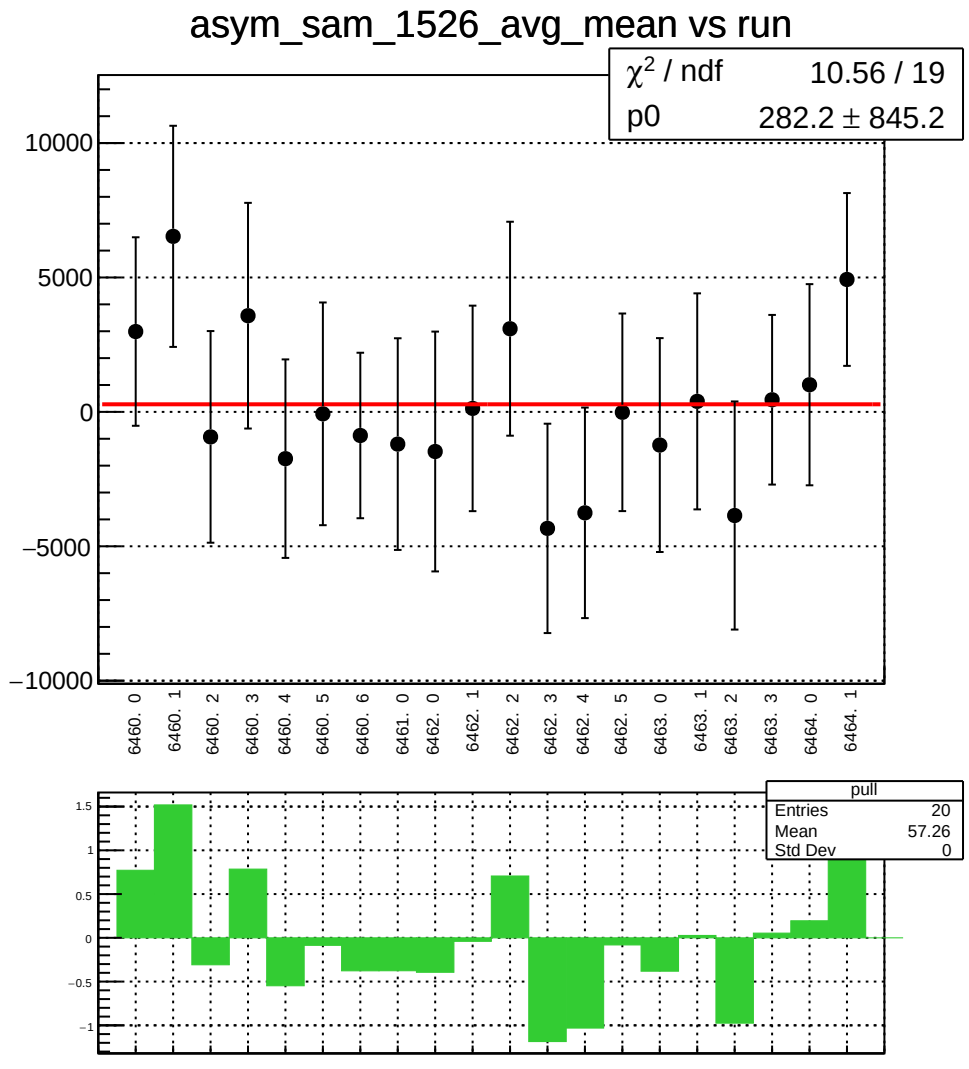

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 980 / 19
p0 385 ± 0.6056
420
410
400
390
380
370
360
350
340
330
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

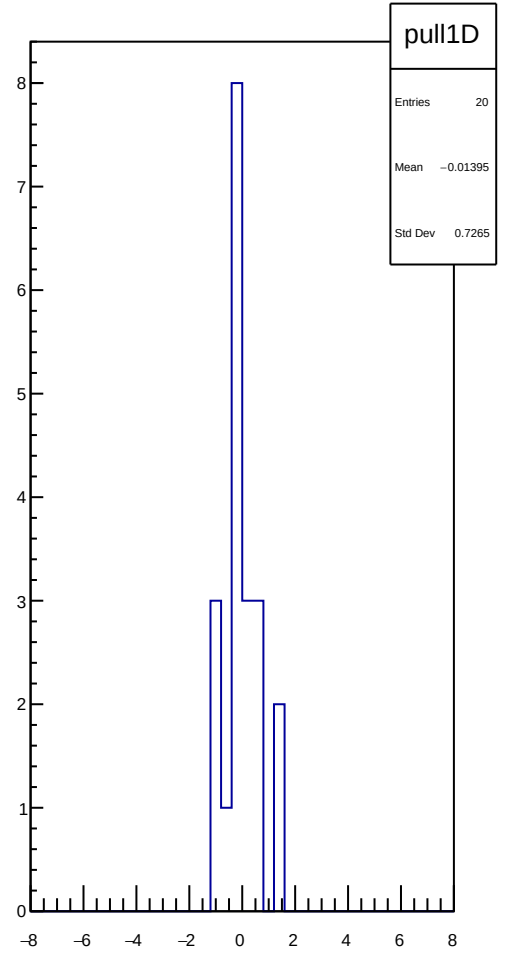

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 10.23 / 19
p0 100.5 ± 138.7
2000
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01273
Std Dev 0.715
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

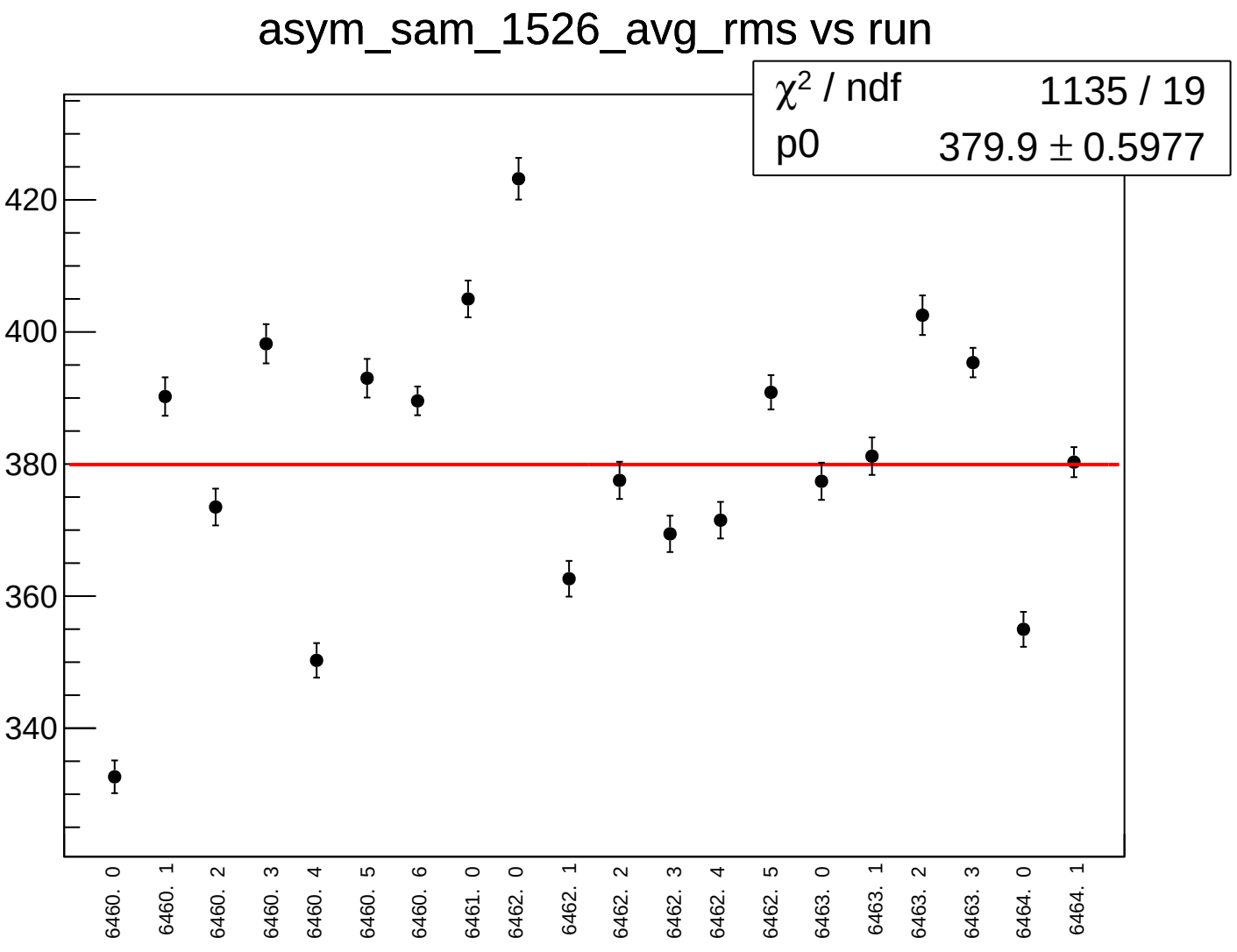

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1218 / 19
p0 62.35 ± 0.0981
72
70
68
66
64
62
60
58
56
54
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

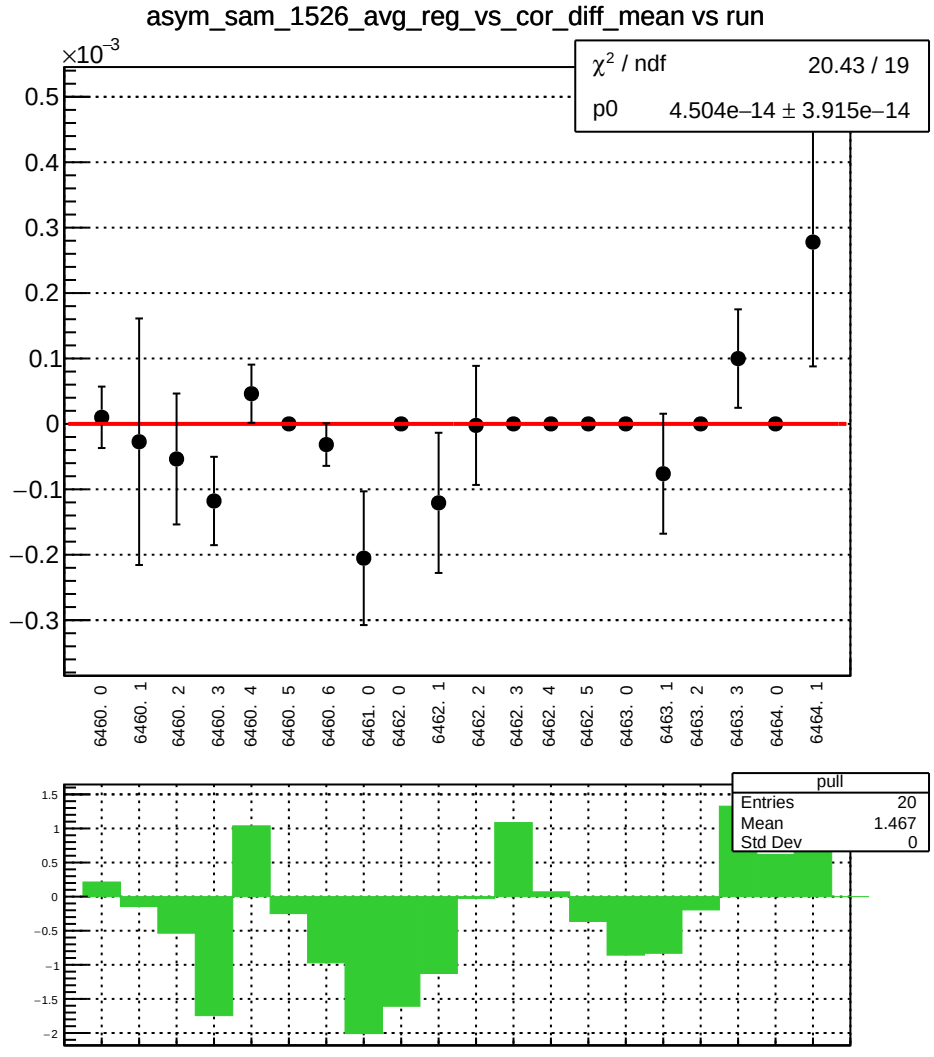

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.63 / 19
p0 −193.7 ± 856.5
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 51.29
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01718
Std Dev 0.7288
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

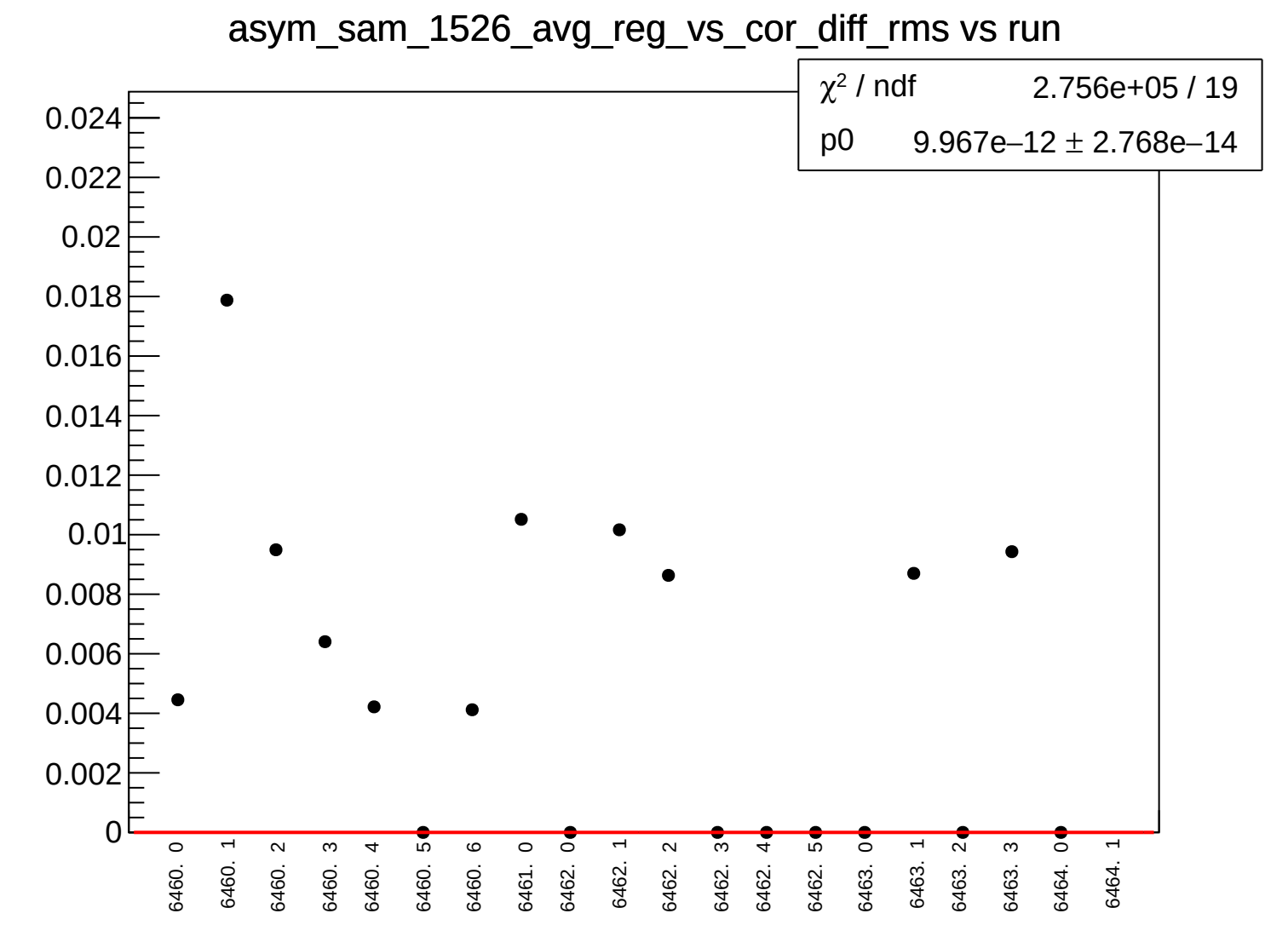

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 980 / 19
p0 385 ± 0.6056
420
410
400
390
380
370
360
350
340
330
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

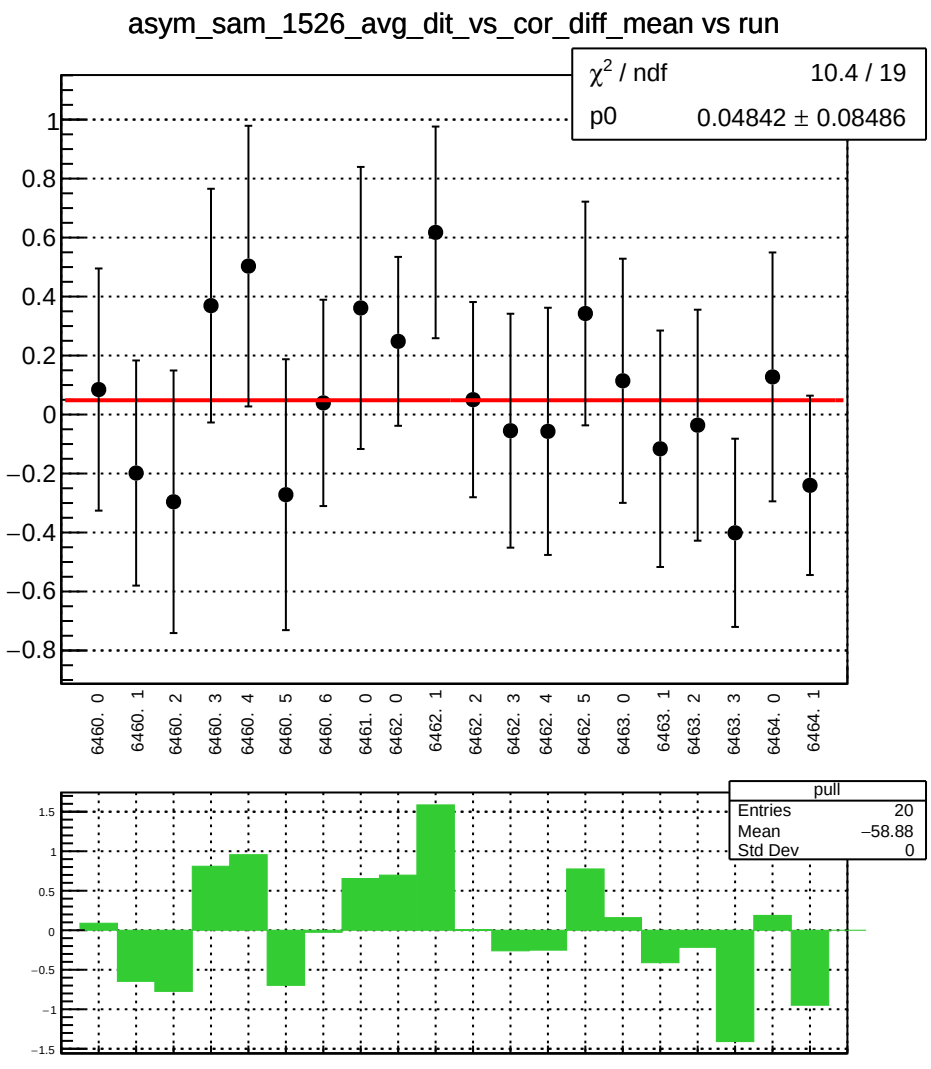

asym_sam_1526_avg_mean vs run
χ² / ndf 10.56 / 19
p0 282.2 ± 845.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 57.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1

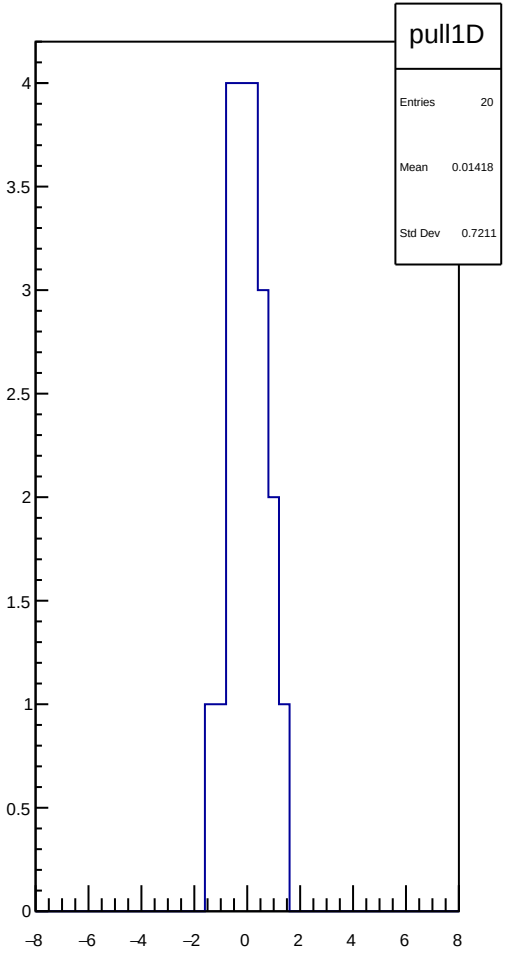

pull1D
Entries 20
Mean −0.01395
Std Dev 0.7265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

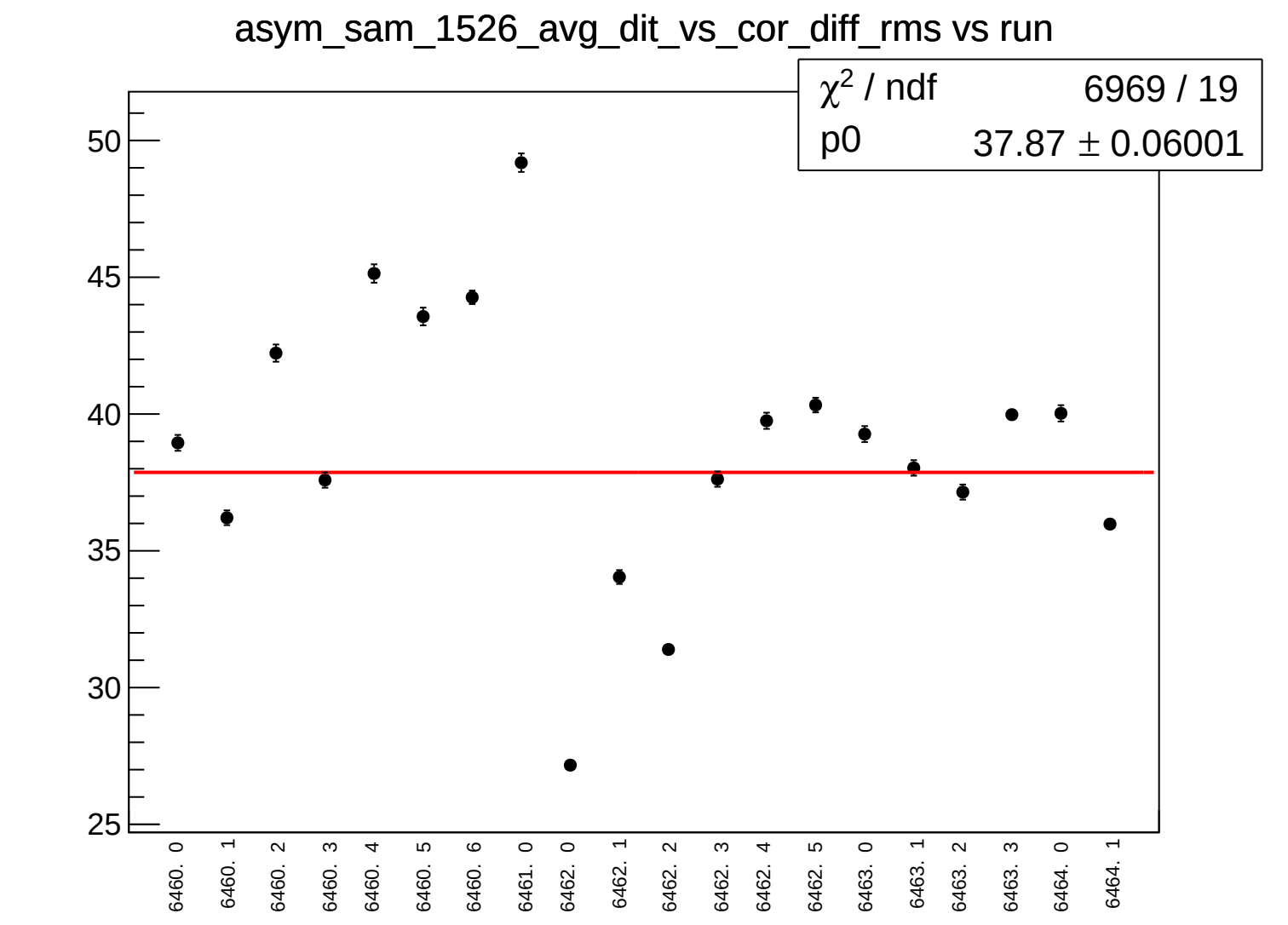

asym_sam_1526_avg_rms vs run
χ² / ndf 1135 / 19
p0 379.9 ± 0.5977
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

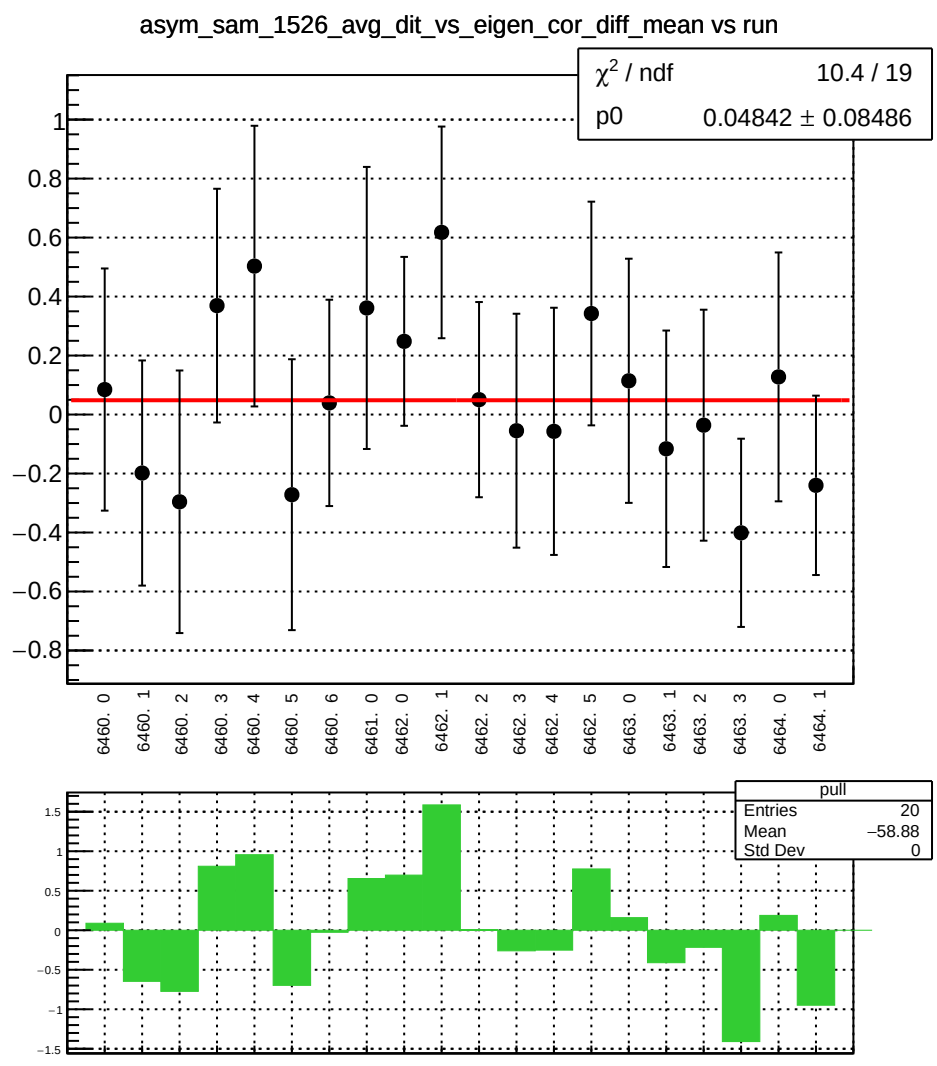

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 20.43 / 19
p0 4.504e−14 ± 3.915e−14
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.467
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.242
Std Dev 0.9813
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

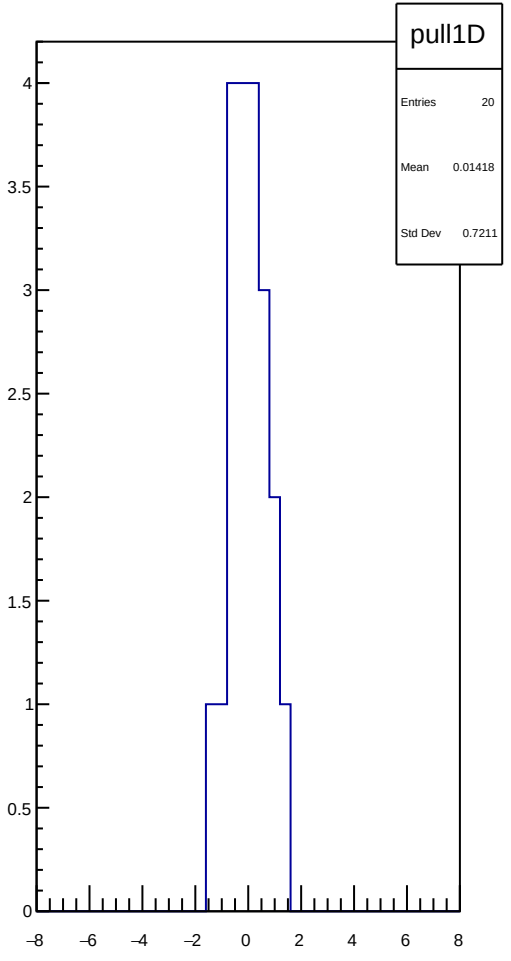

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.756e+05 / 19
p0 9.967e−12 ± 2.768e−14
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

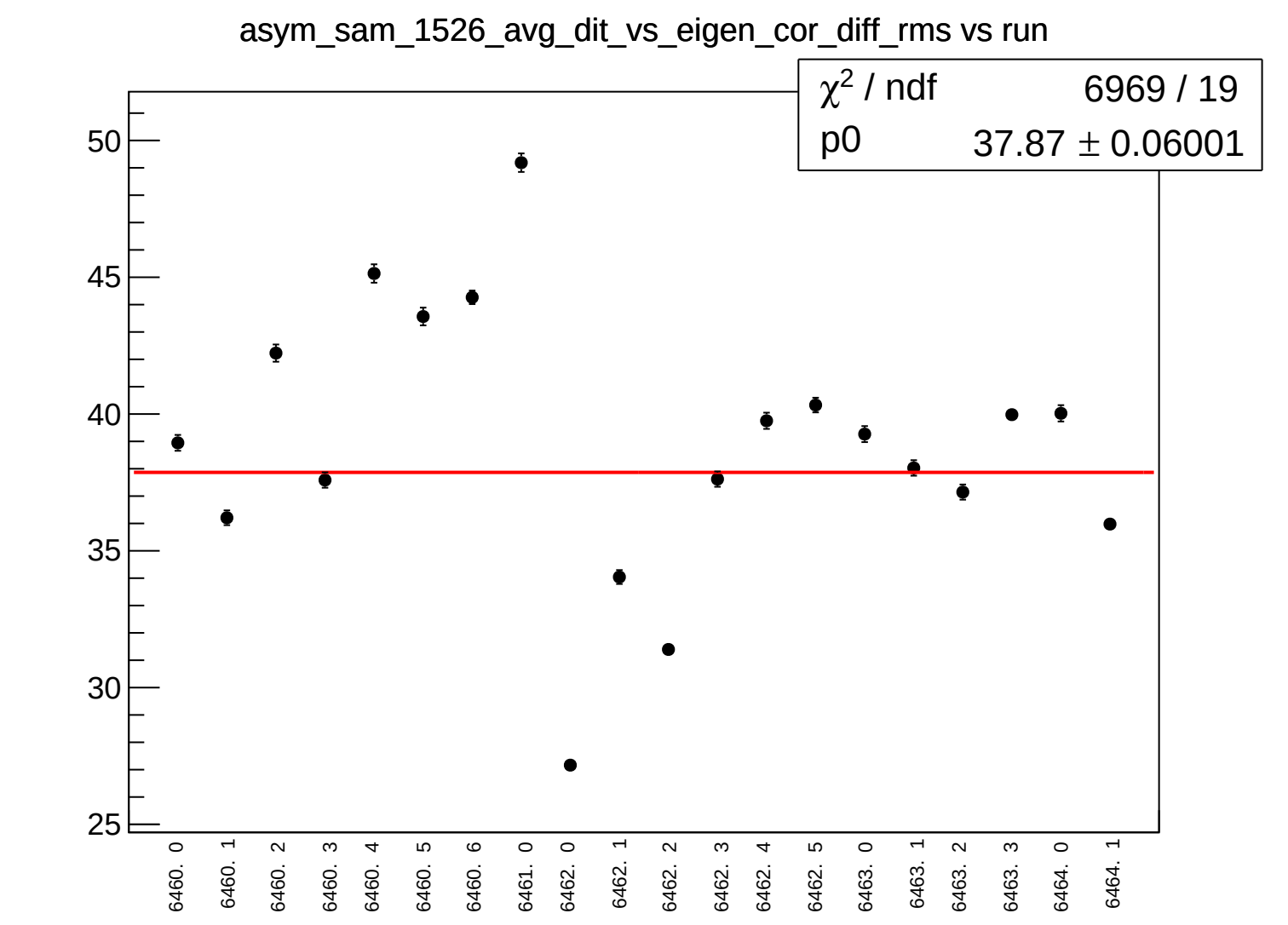

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 10.4 / 19
p0 0.04842 ± 0.08486
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.88
Std Dev 0

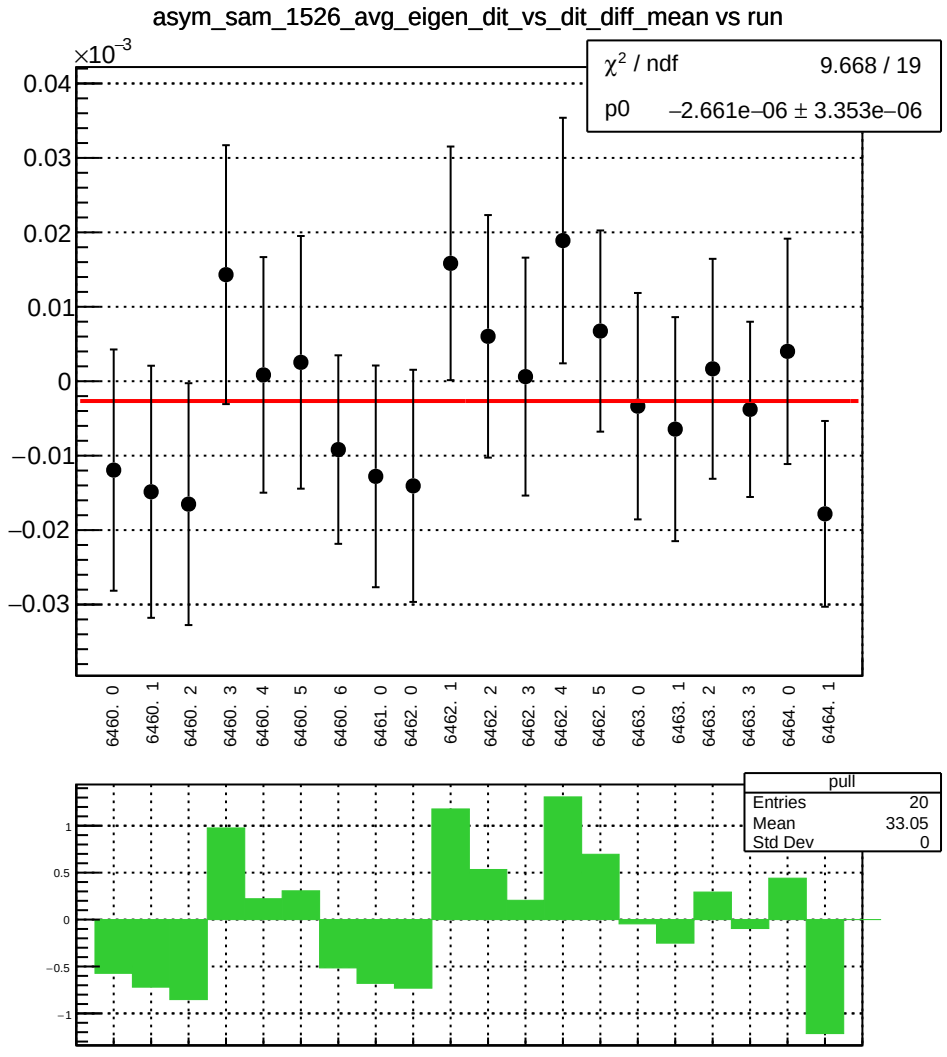

pull1D
Entries 20
Mean 0.01418
Std Dev 0.7211

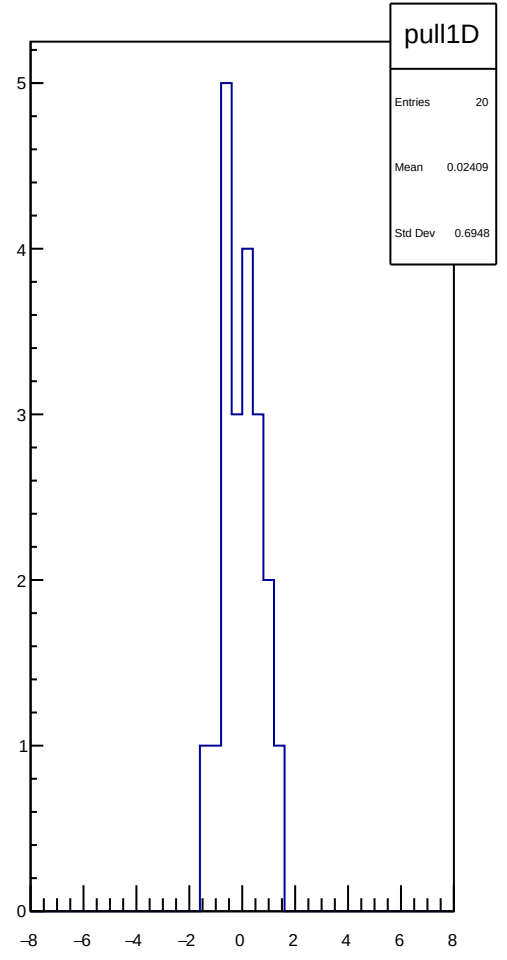

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6969 / 19
p0 37.87 ± 0.06001
50
45
40
35
30
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

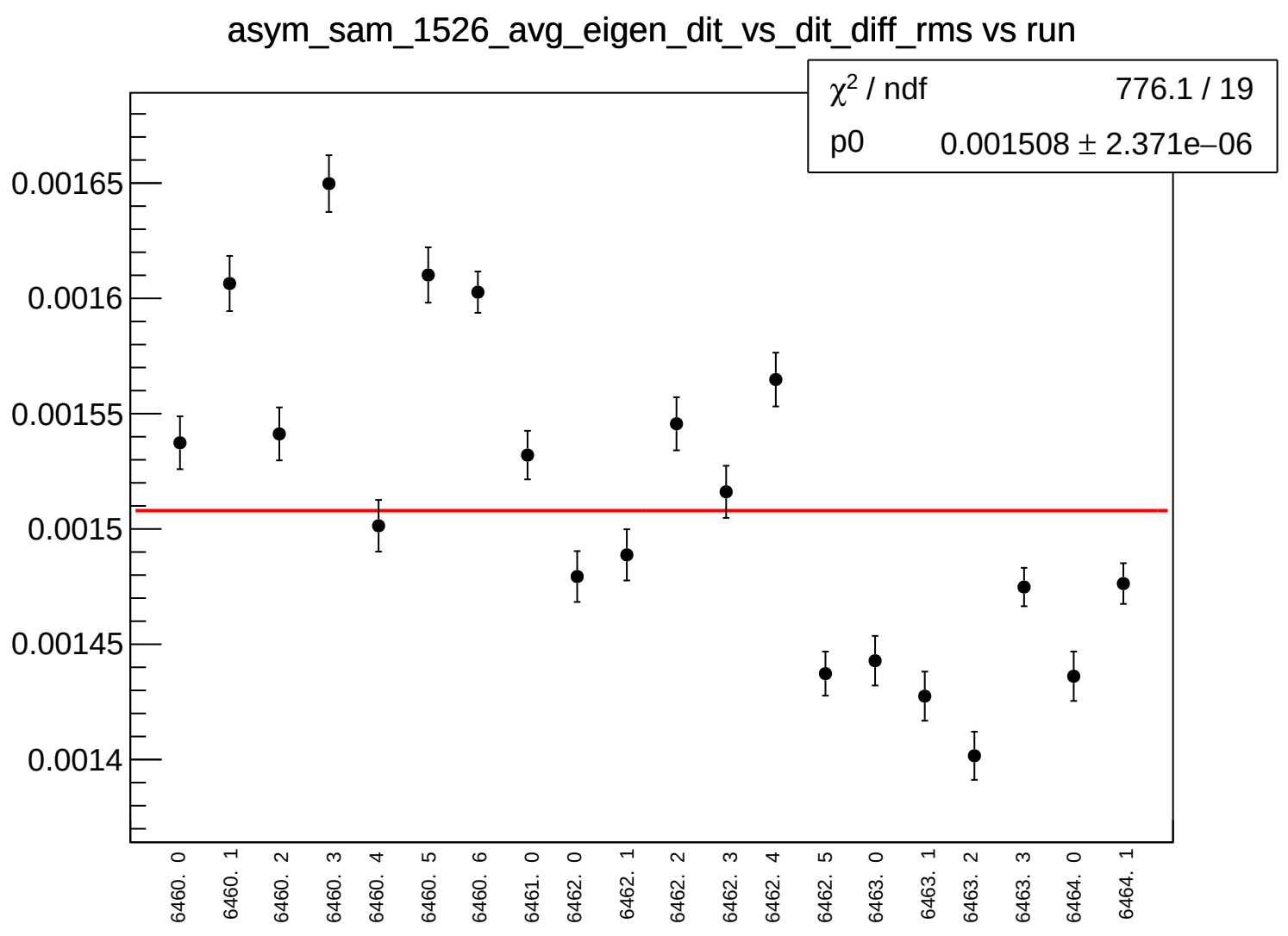

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.4 / 19
p0 0.04842 ± 0.08486
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.88
Std Dev 0

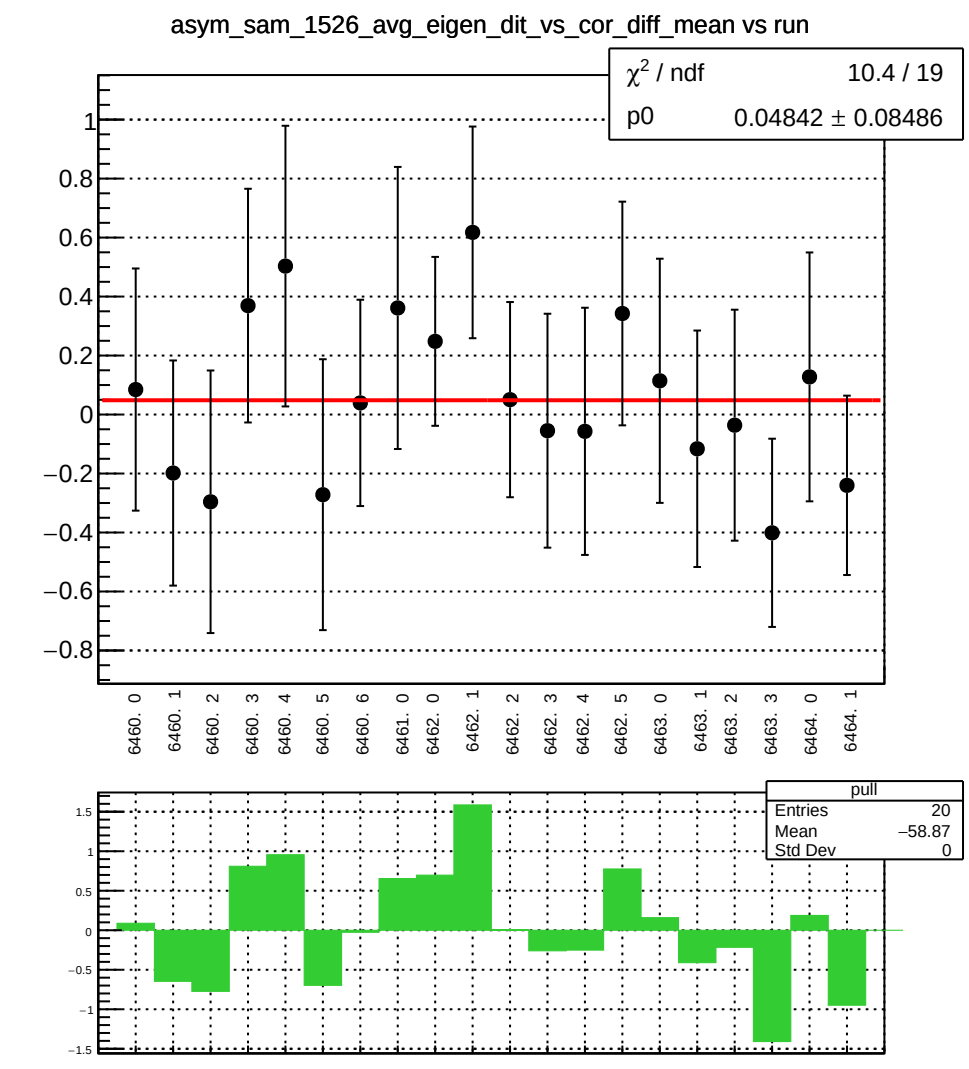

pull1D
Entries 20
Mean 0.01418
Std Dev 0.7211

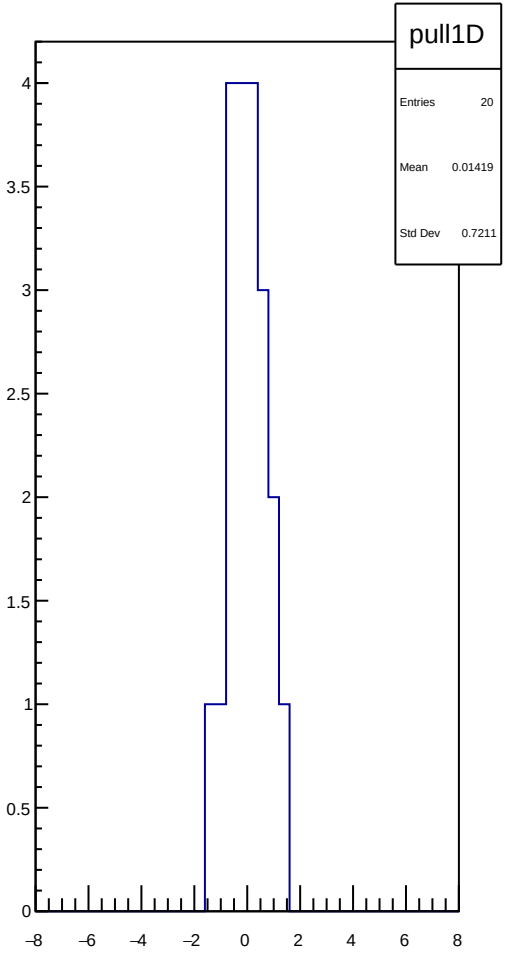

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6969 / 19
p0 37.87 ± 0.06001
50
45
40
35
30
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

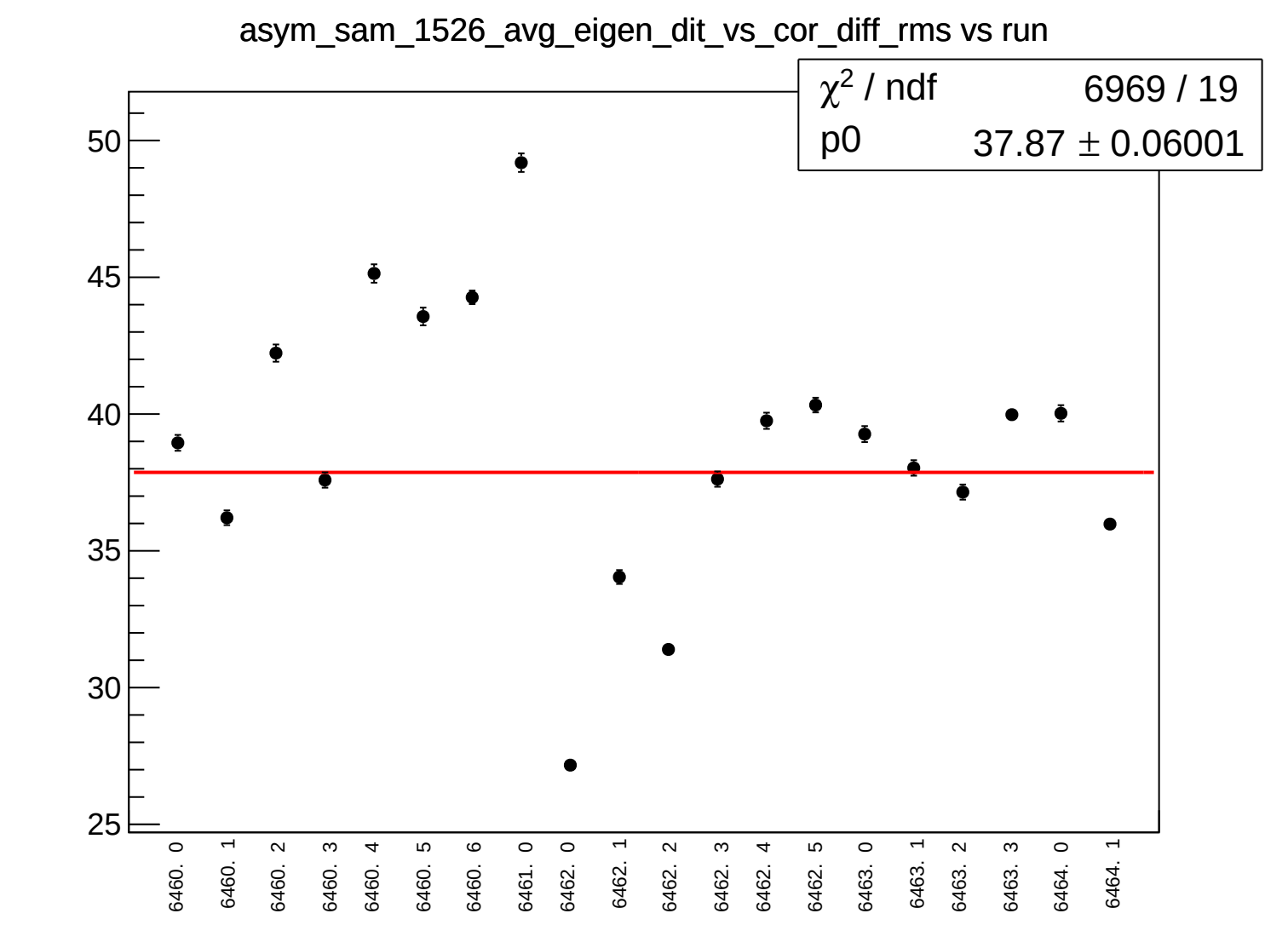

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 9.668 / 19
p0 −2.661e−06 ± 3.353e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 33.05
Std Dev 0
1
0.5
0
−0.5
−1

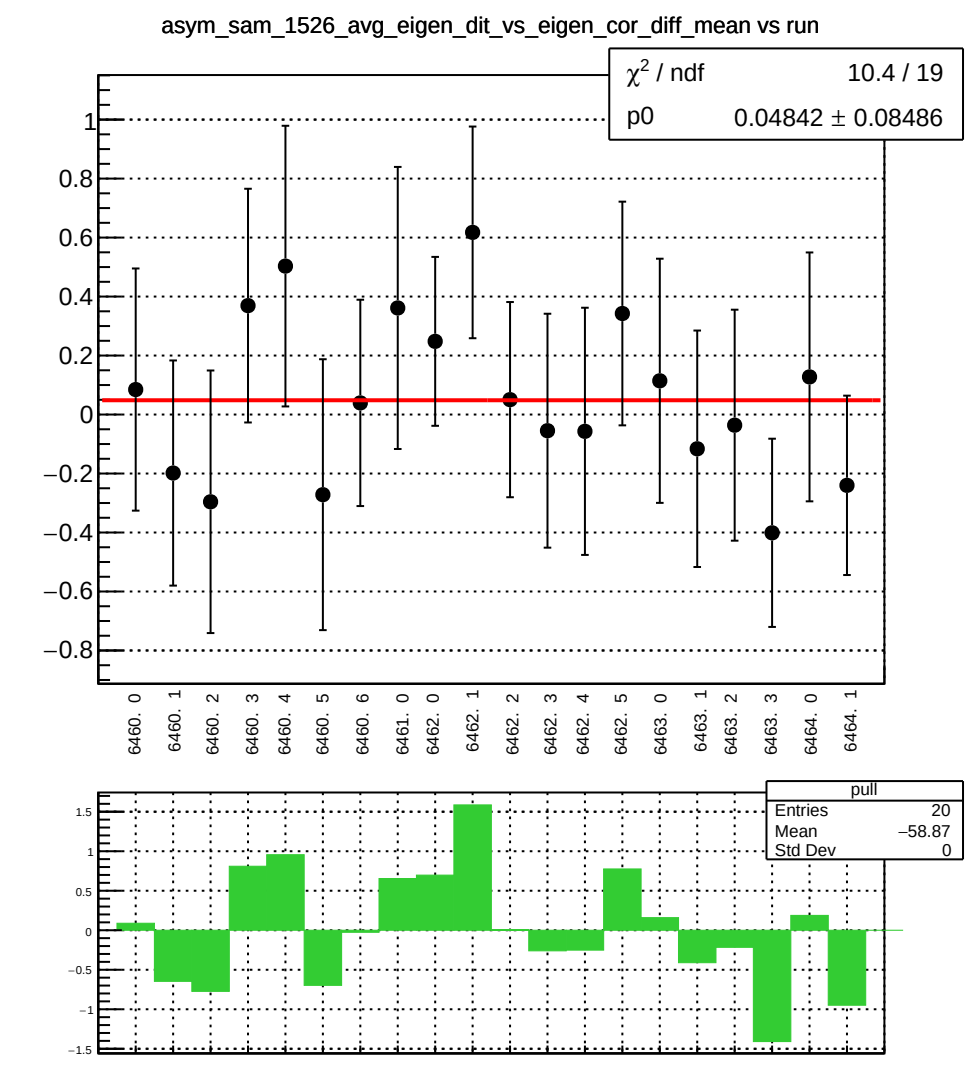

pull1D
Entries 20
Mean 0.02409
Std Dev 0.6948
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

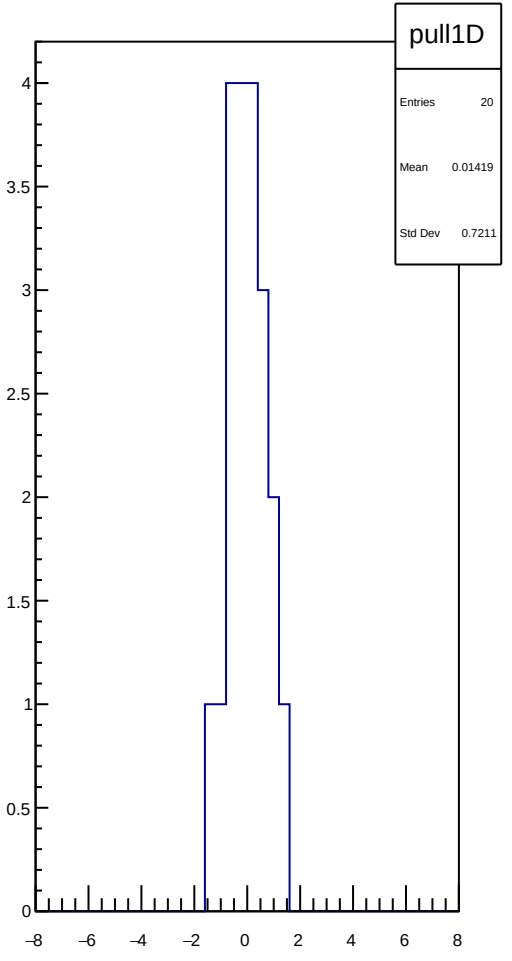

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 776.1 / 19
p0 0.001508 ± 2.371e−06
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

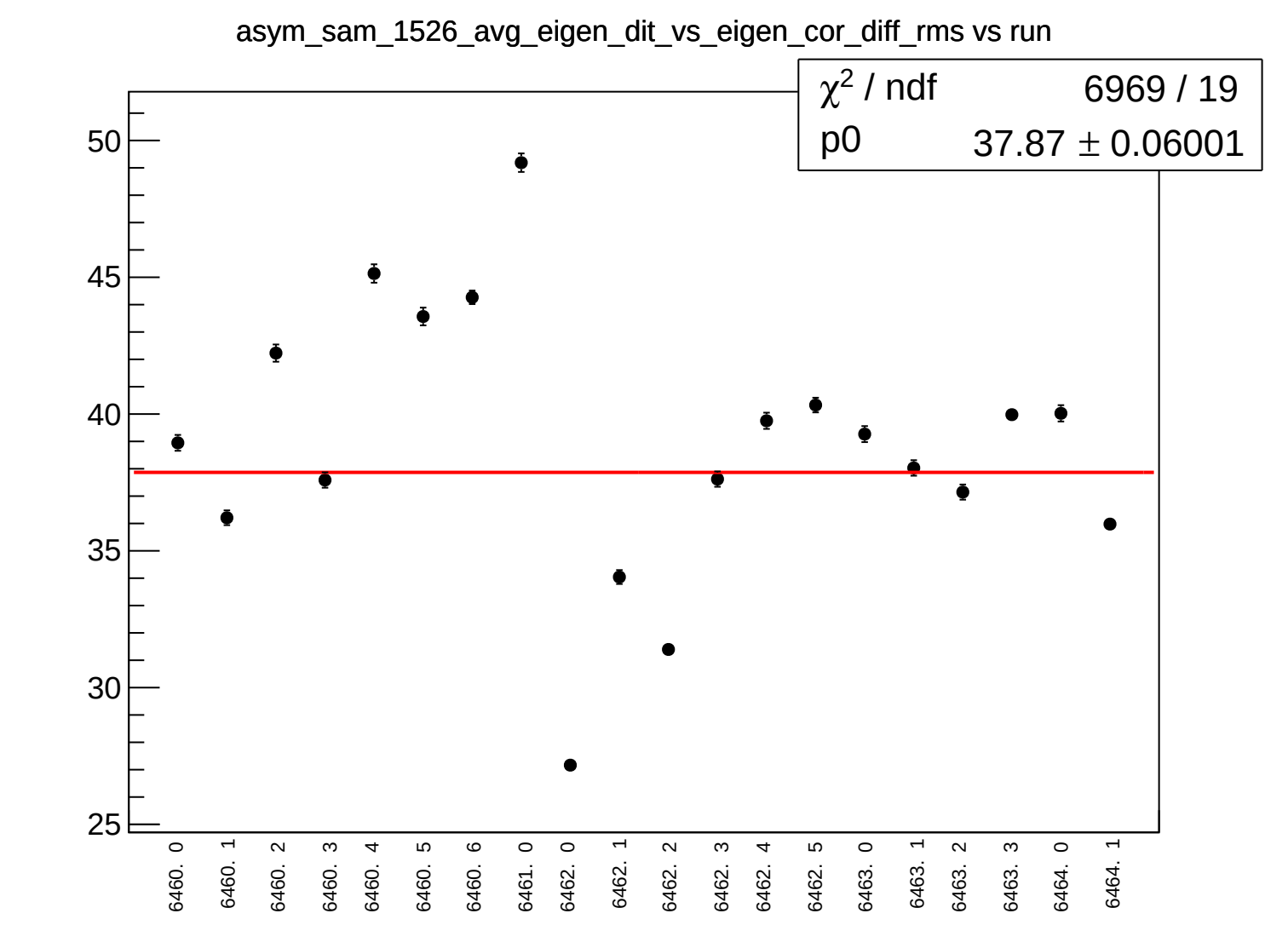

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 10.4 / 19
p0 0.04842 ± 0.08486
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.87
Std Dev 0

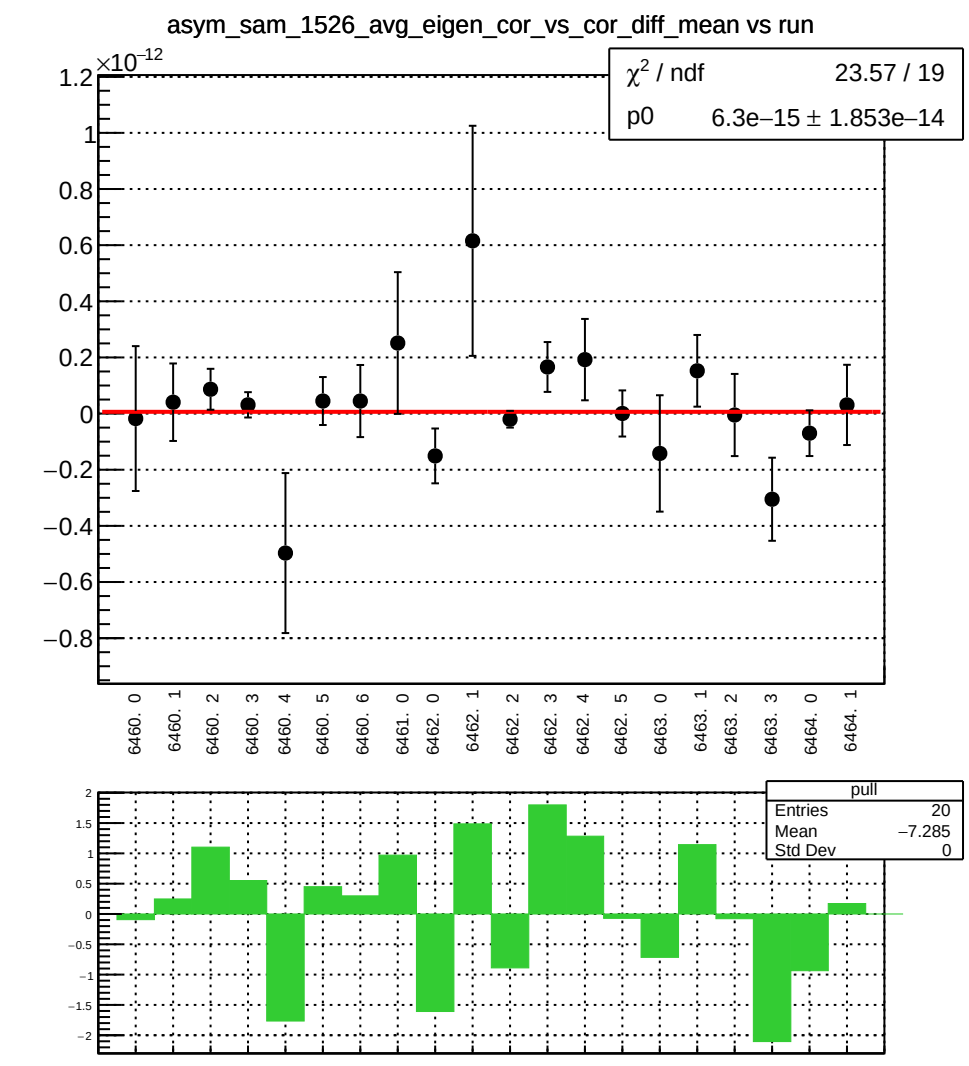

pull1D
Entries 20
Mean 0.01419
Std Dev 0.7211

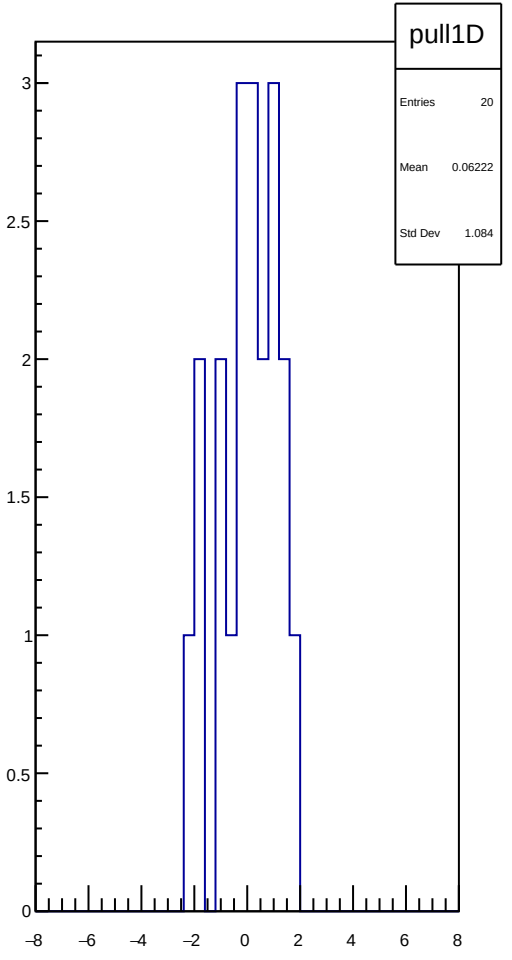

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6969 / 19
p0 37.87 ± 0.06001
50
45
40
35
30
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

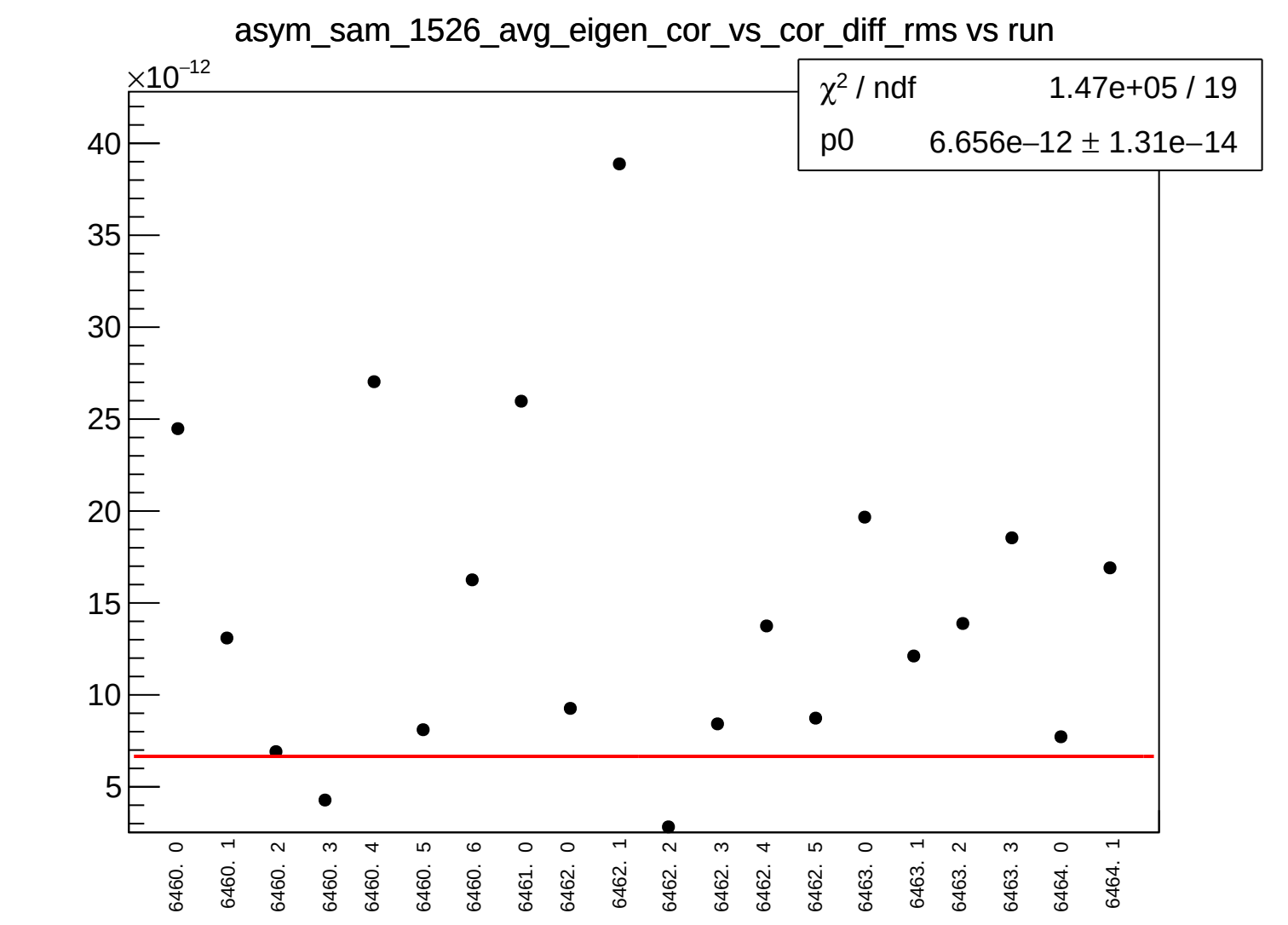

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.4 / 19
p0 0.04842 ± 0.08486
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.87
Std Dev 0

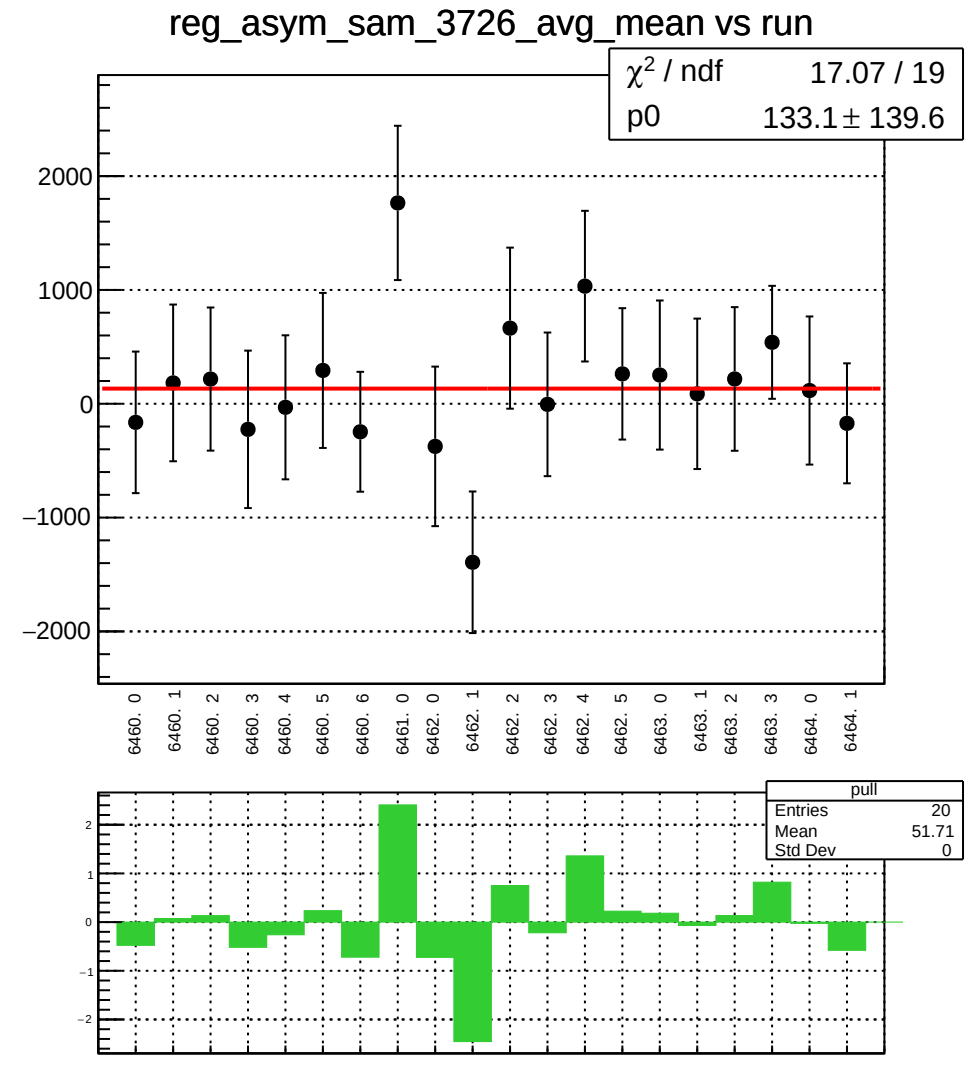

pull1D
Entries 20
Mean 0.01419
Std Dev 0.7211

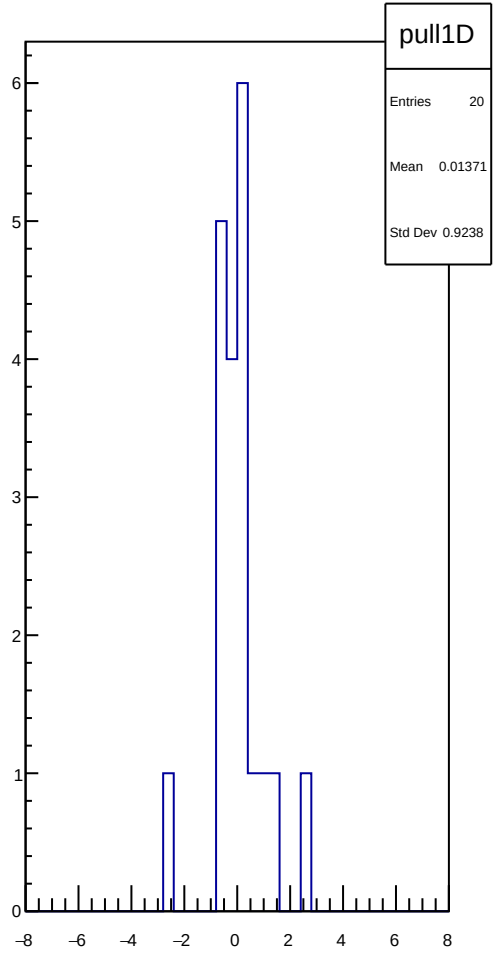

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6969 / 19
p0 37.87 ± 0.06001
50
45
40
35
30
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

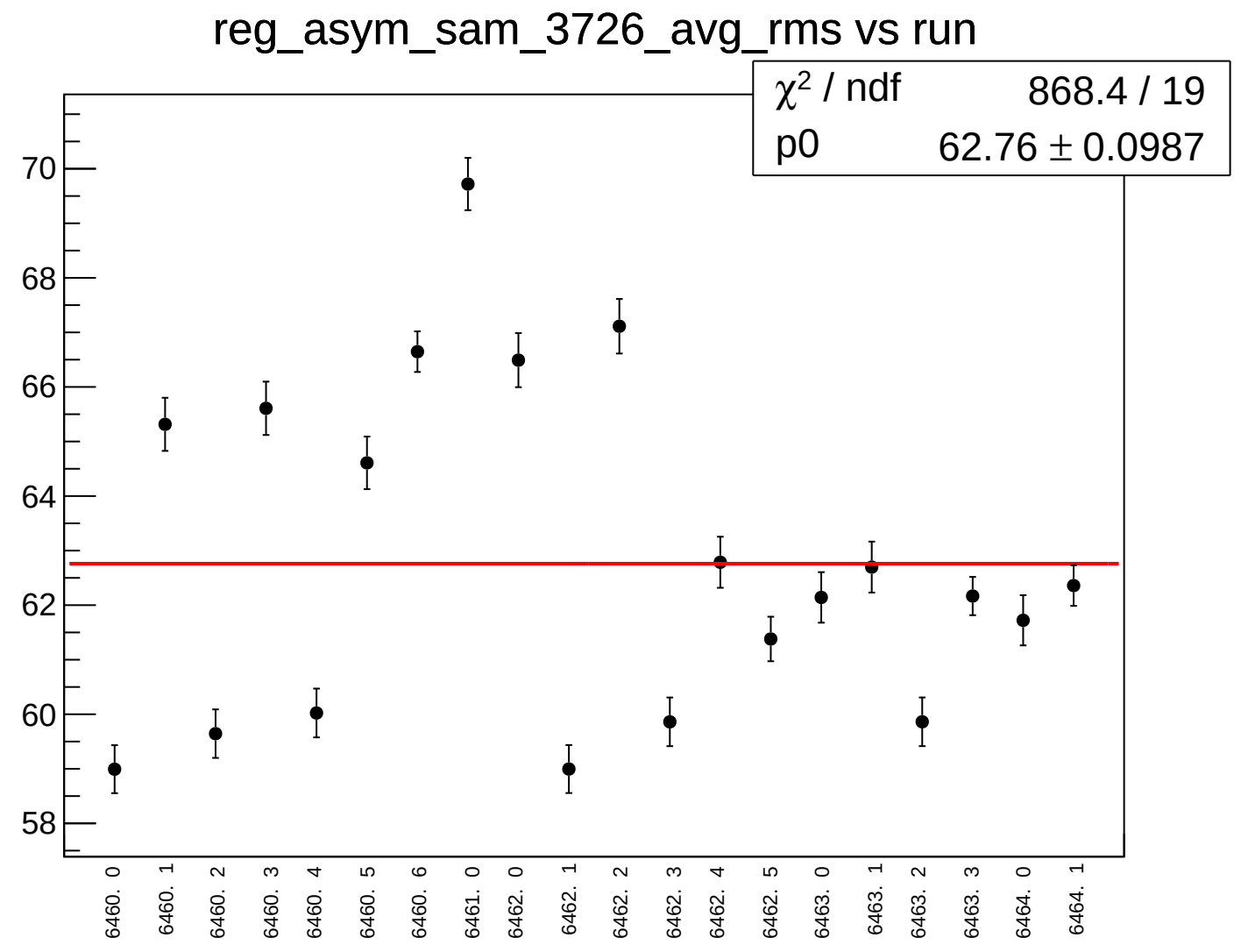

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 23.57 / 19
p0 6.3e−15 ± 1.853e−14
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −7.285
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

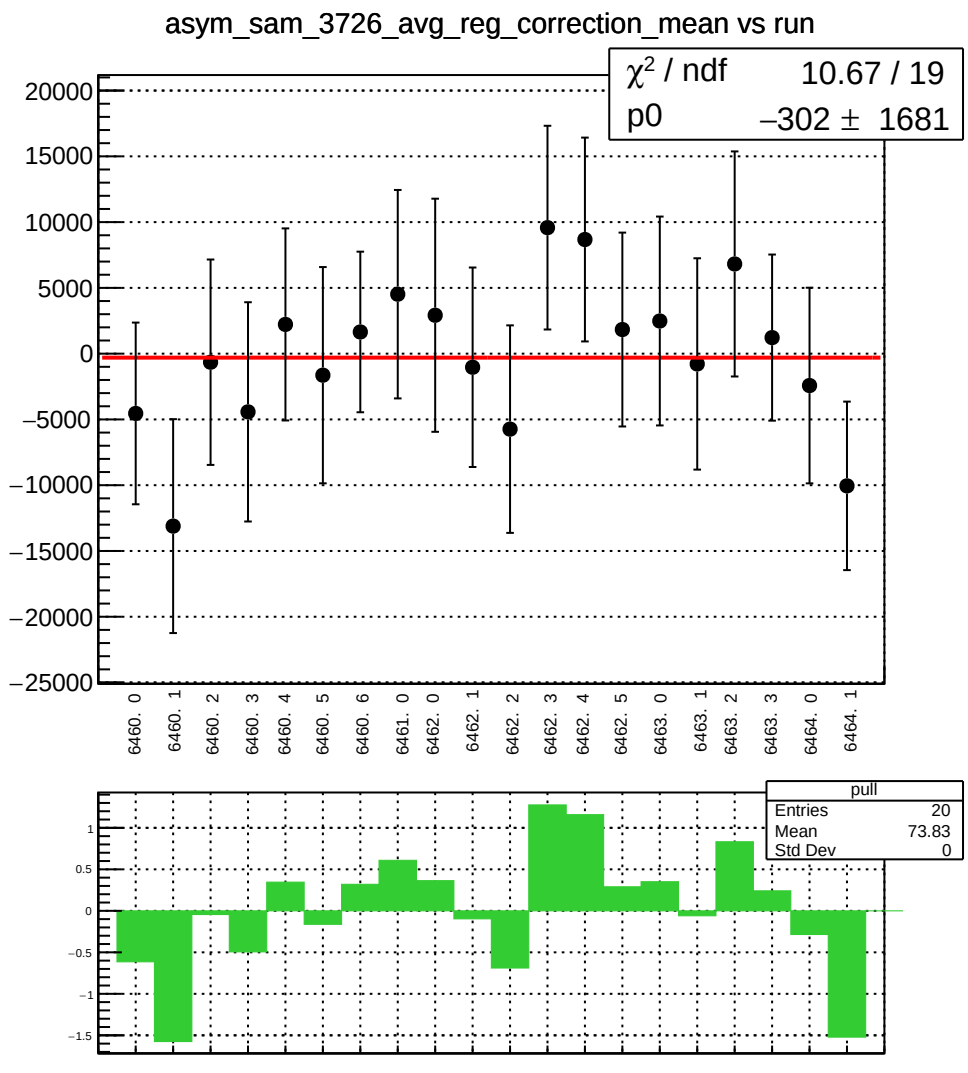

pull1D
Entries 20
Mean 0.06222
Std Dev 1.084
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

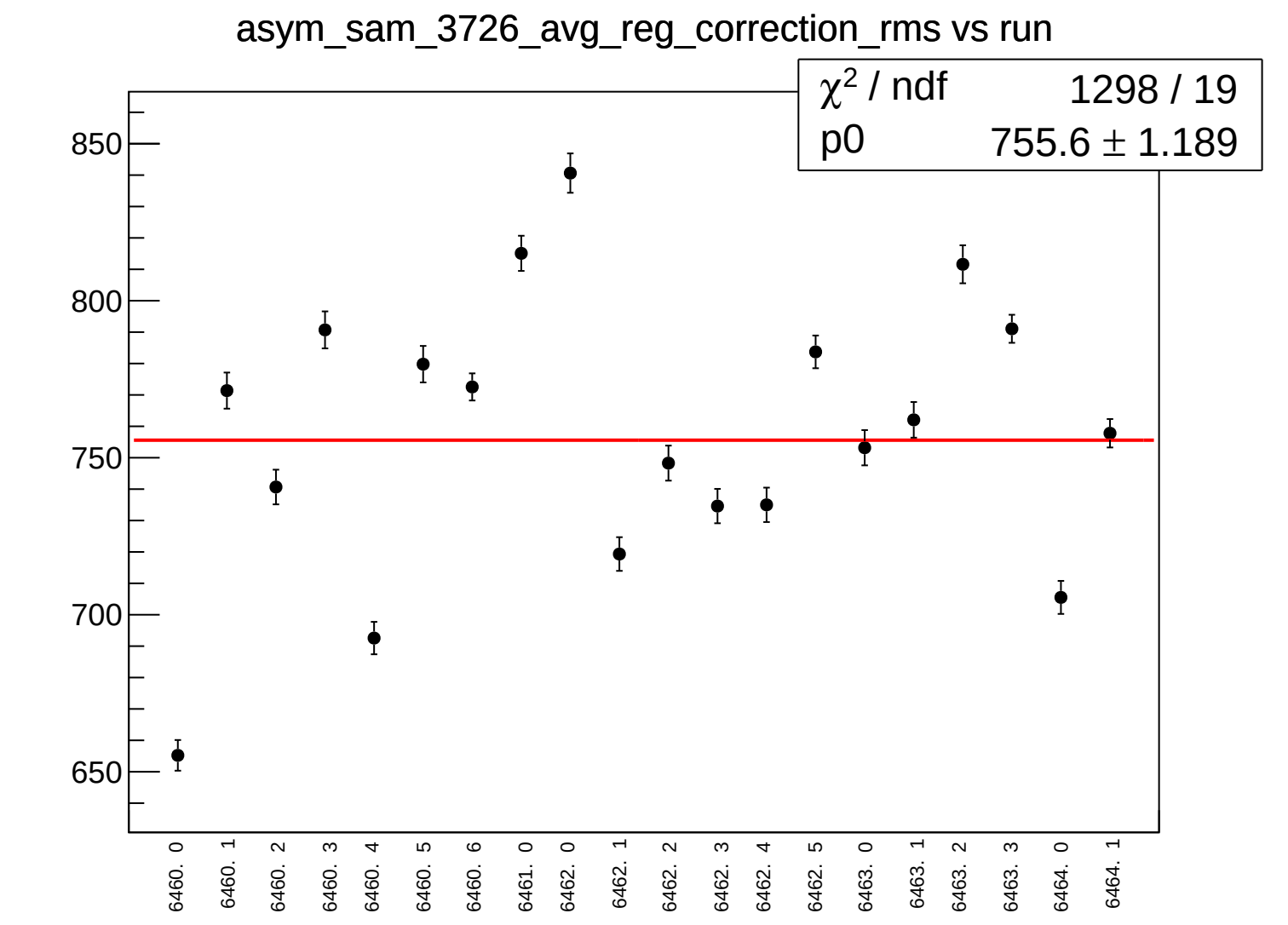

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.47e+05 / 19
p0 6.656e−12 ± 1.31e−14
40
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

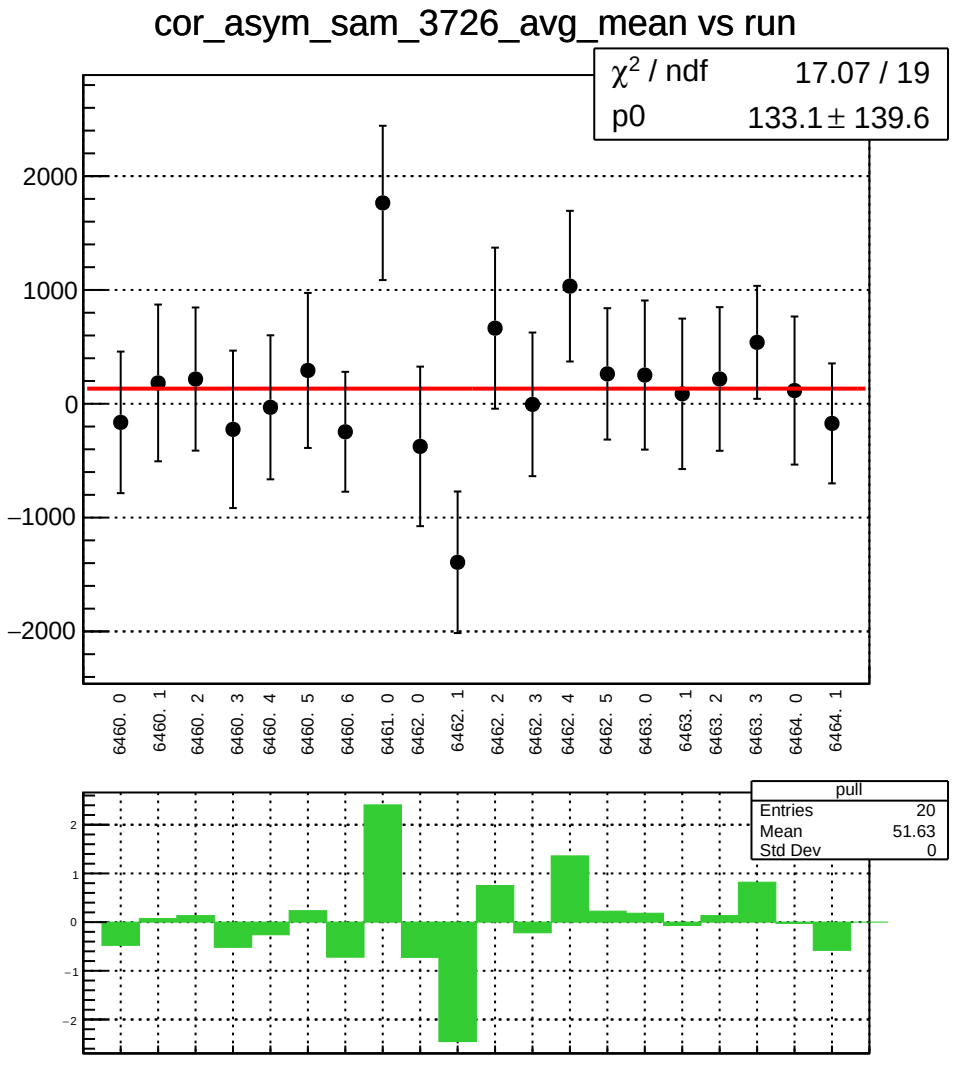

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 17.07 / 19
p0 133.1 ± 139.6
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 51.71
Std Dev 0
2
1
0
−1
−2

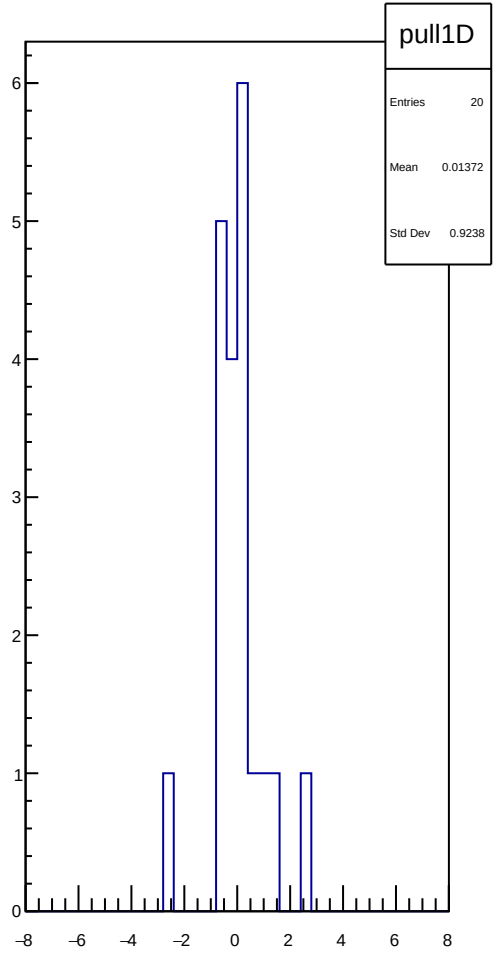

pull1D
Entries 20
Mean 0.01371
Std Dev 0.9238
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

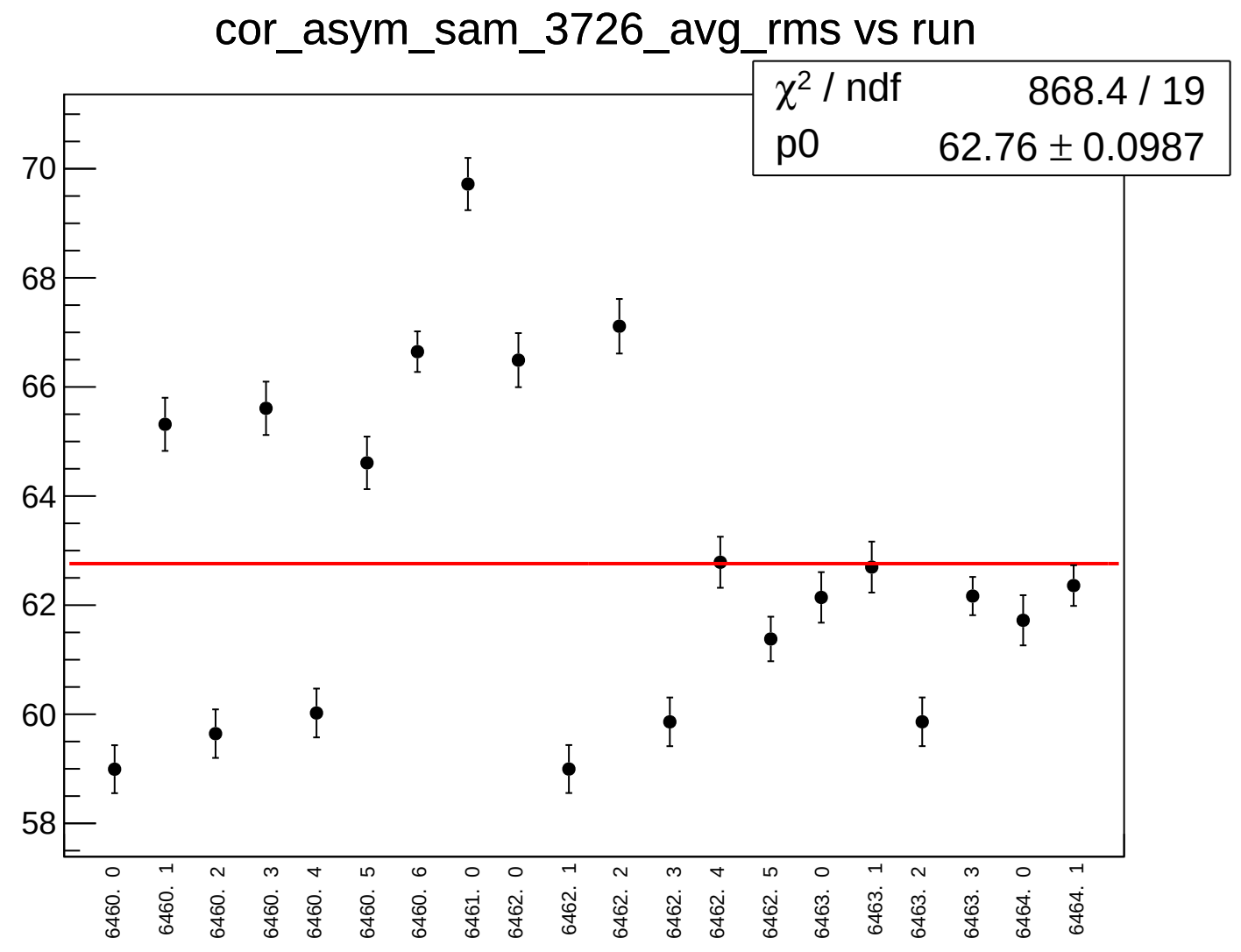

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 868.4 / 19
p0 62.76 ± 0.0987
70
68
66
64
62
60
58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

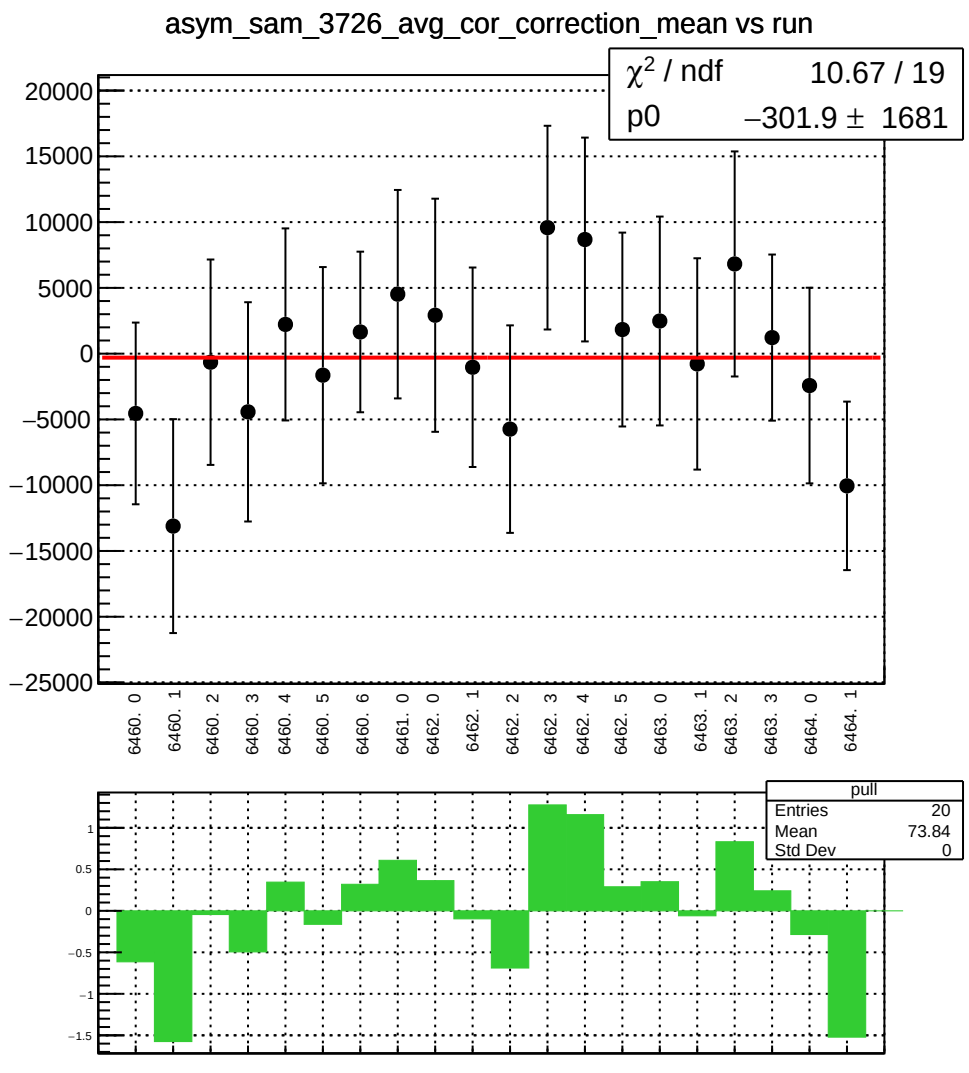

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 10.67 / 19
p0 −302 ± 1681
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.83
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01217
Std Dev 0.7304
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

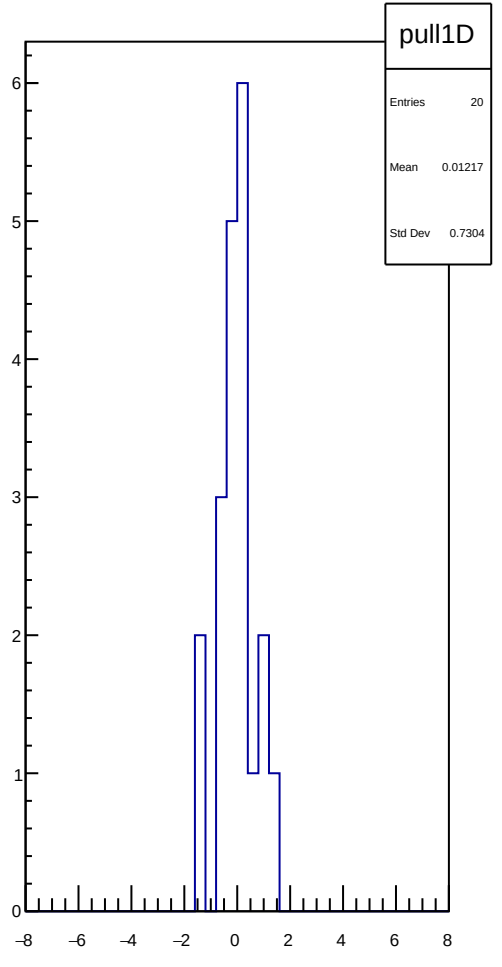

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1298 / 19
p0 755.6 ± 1.189
850
800
750
700
650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

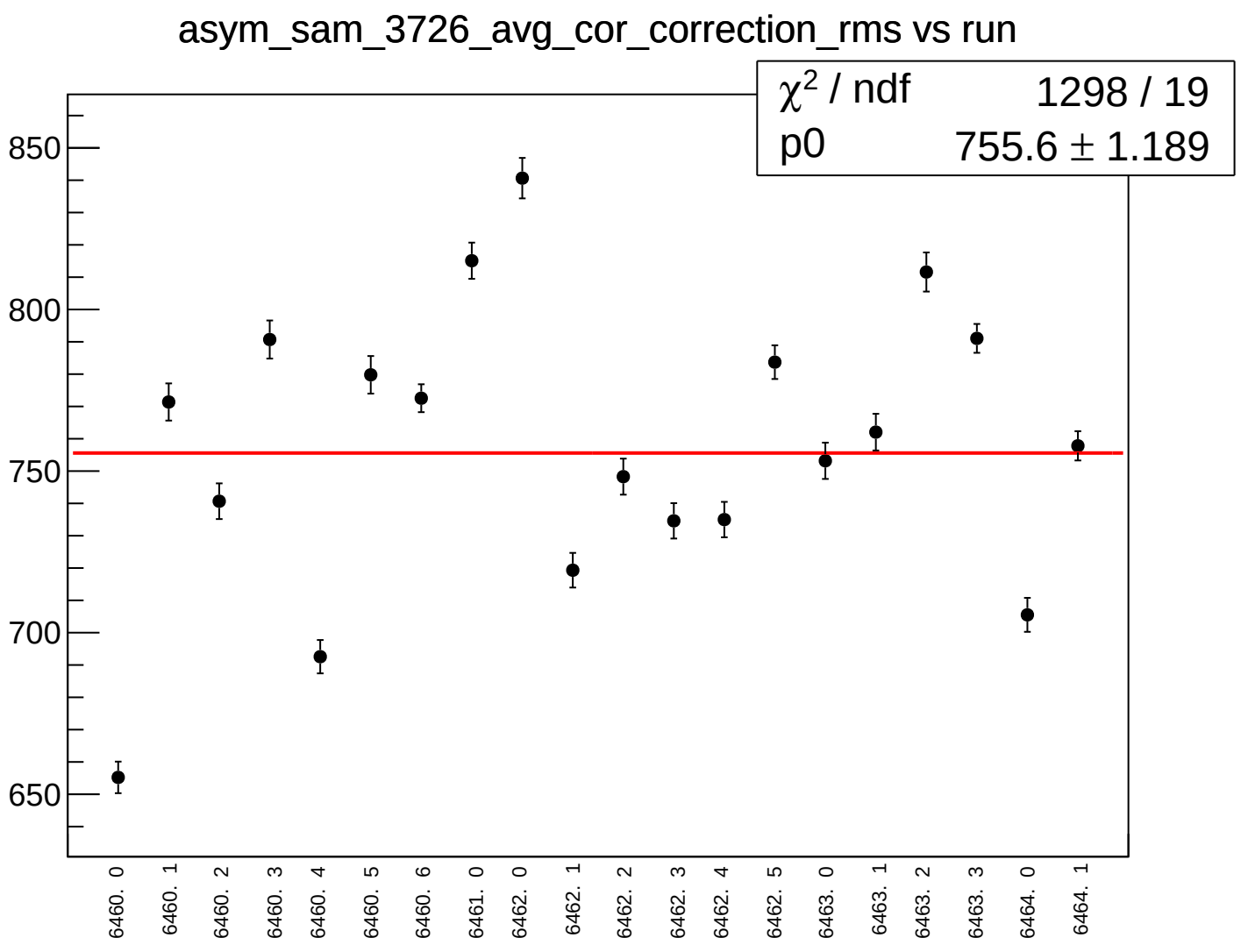

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 17.07 / 19
p0 133.1 ± 139.6
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 51.63
Std Dev 0
2
1
0
−1
−2

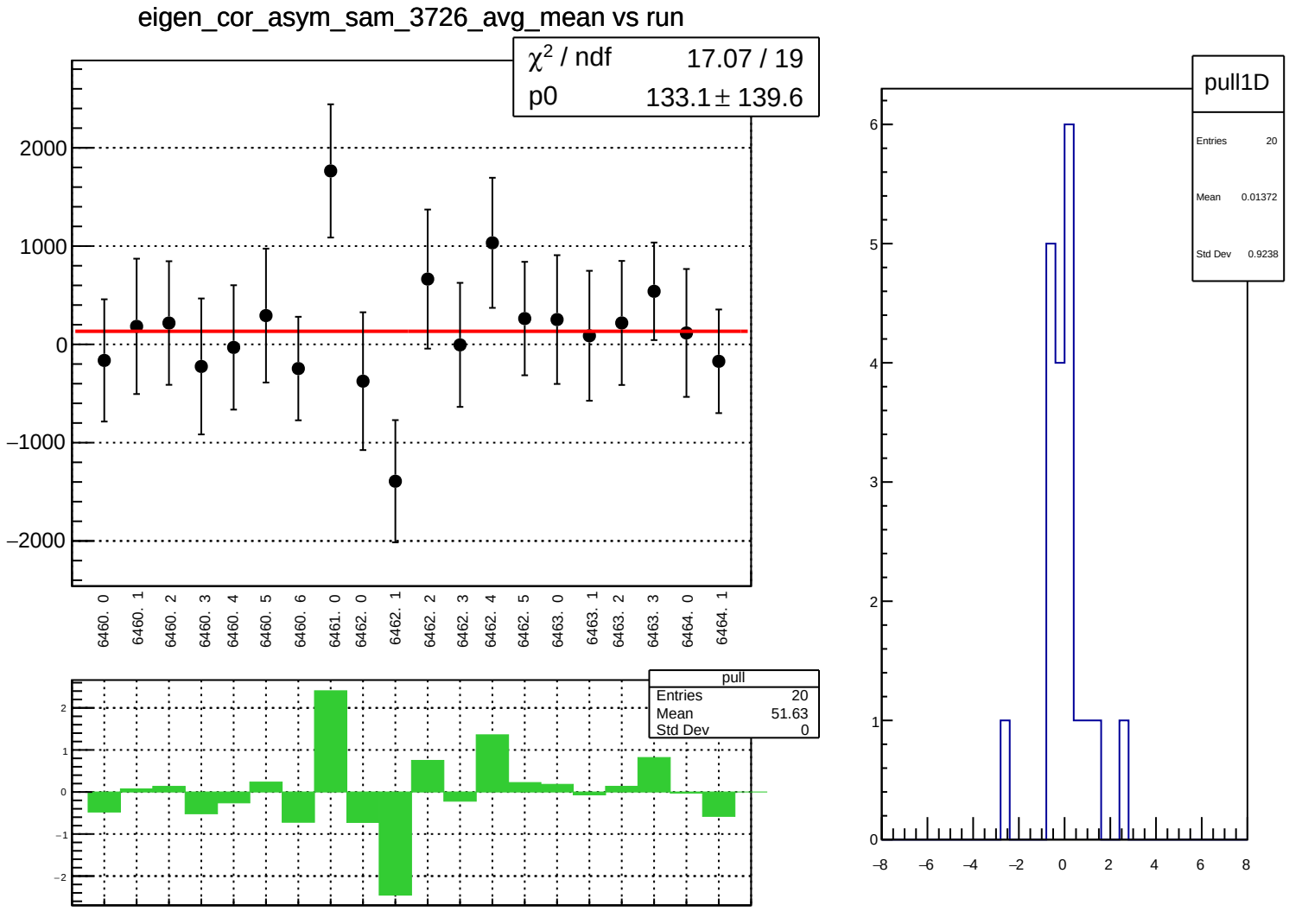

pull1D
Entries 20
Mean 0.01372
Std Dev 0.9238
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

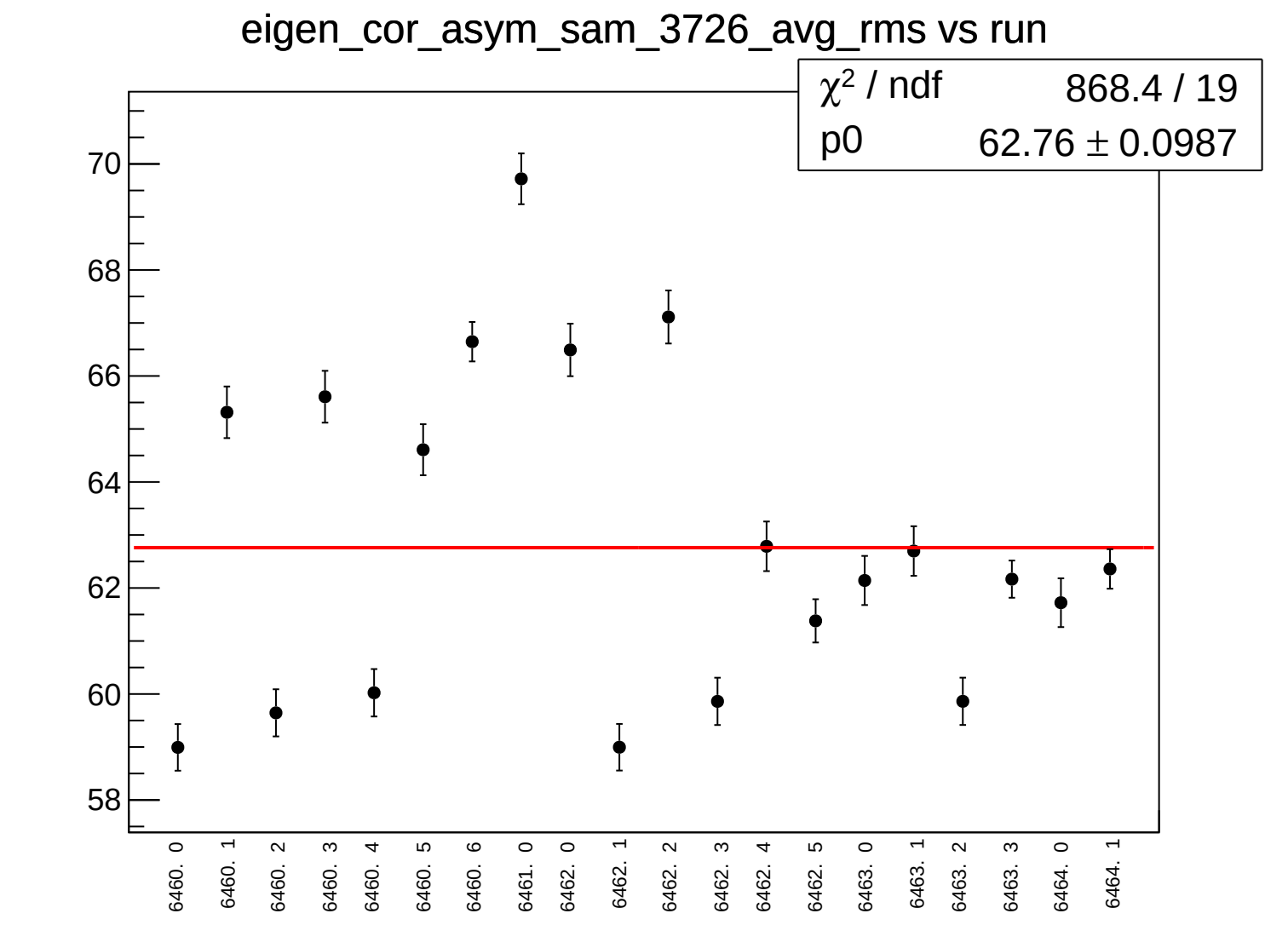

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 868.4 / 19
p0 62.76 ± 0.0987
70
68
66
64
62
60
58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

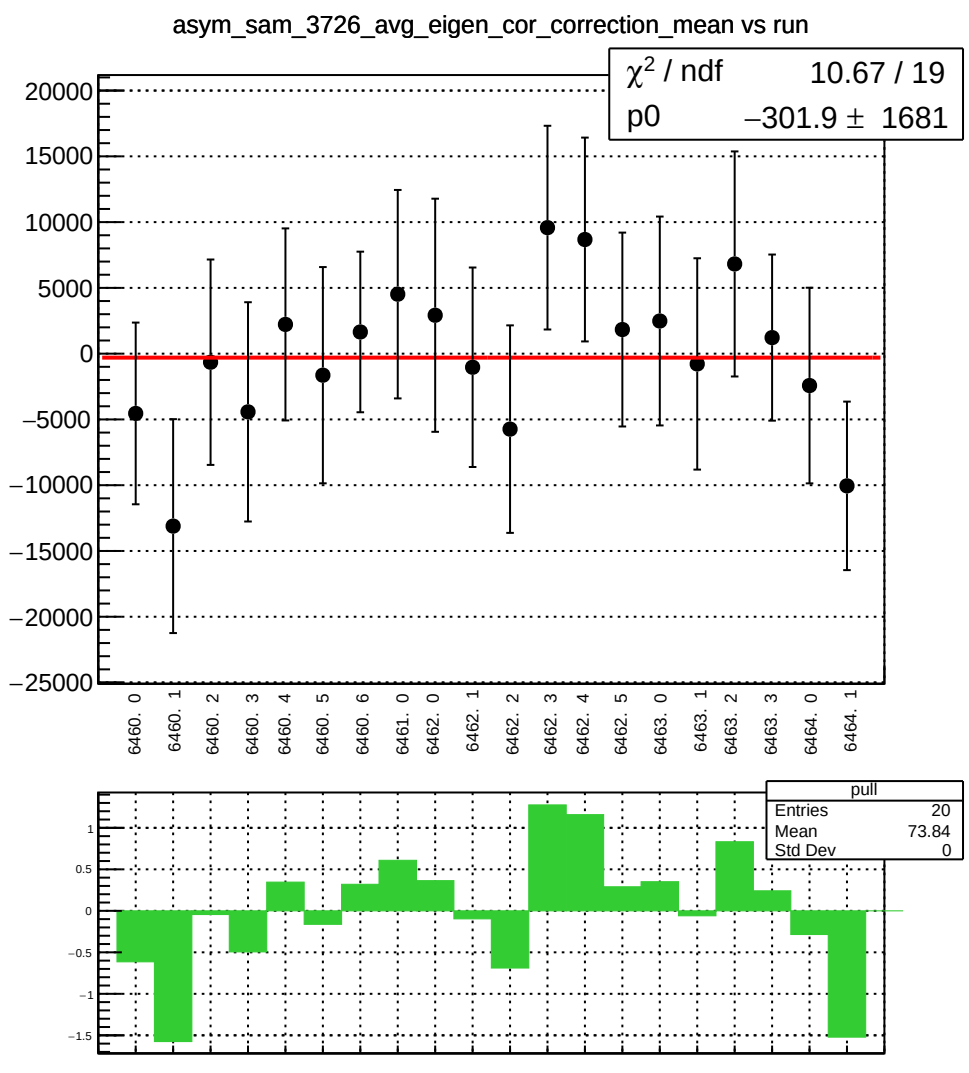

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 10.67 / 19
p0 −301.9 ± 1681
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.84
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

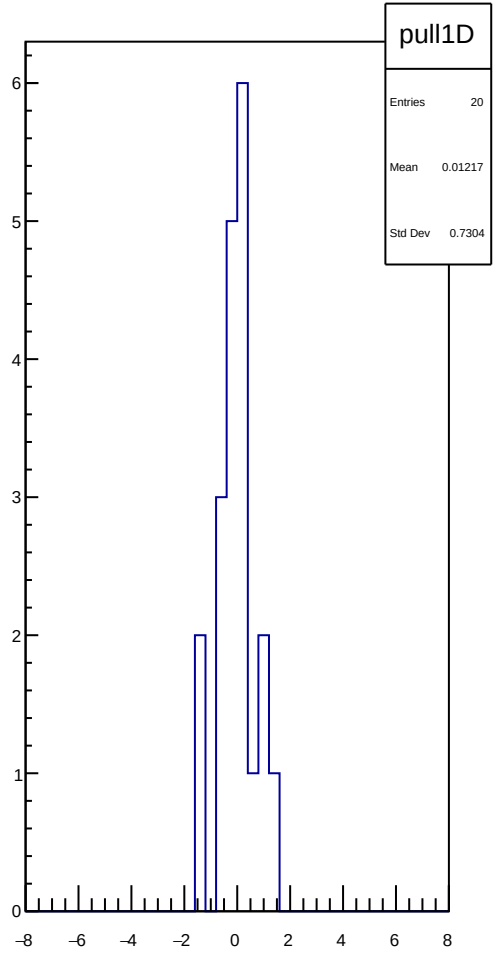

pull1D
Entries 20
Mean 0.01217
Std Dev 0.7304
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

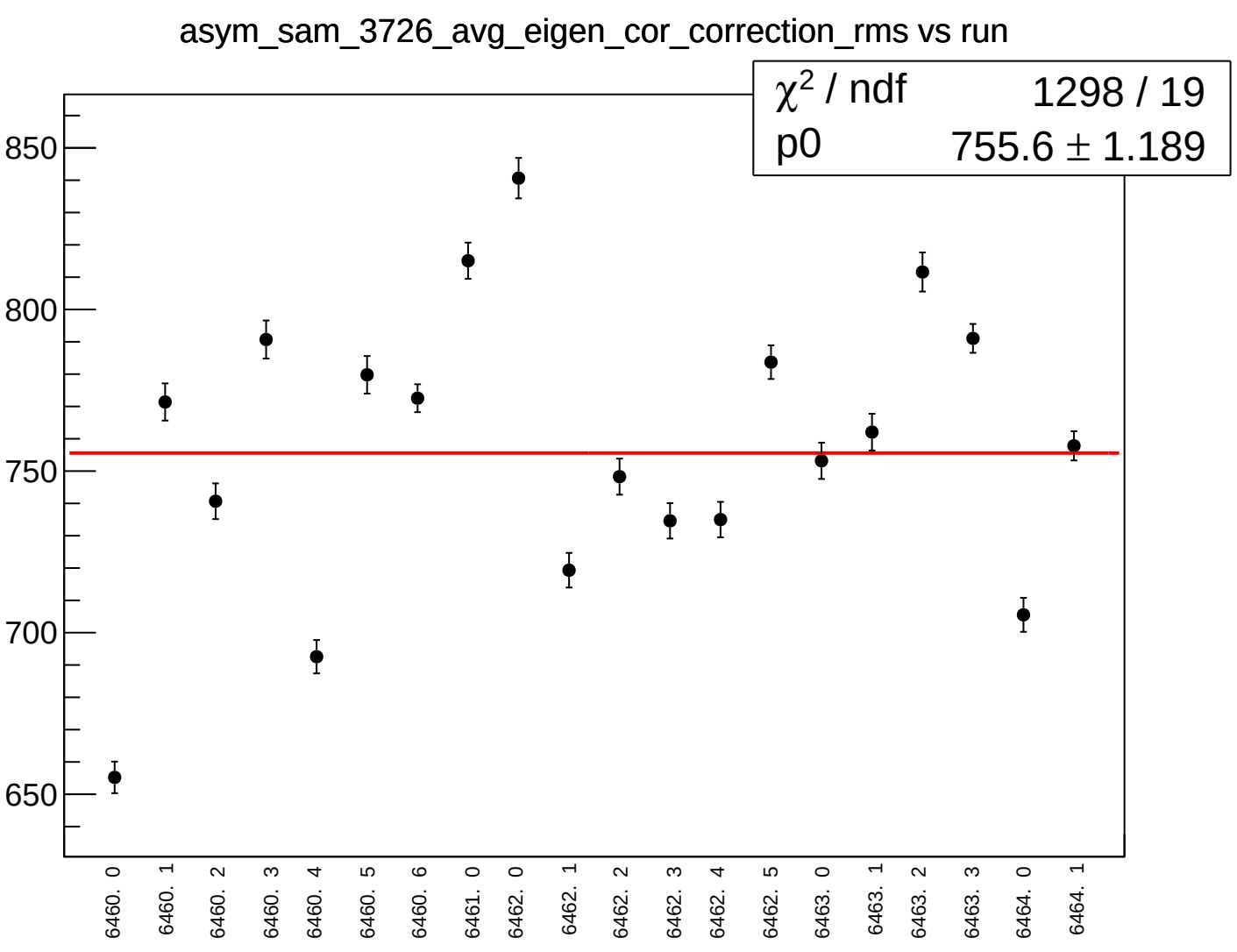

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1298 / 19
p0 755.6 ± 1.189
850
800
750
700
650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

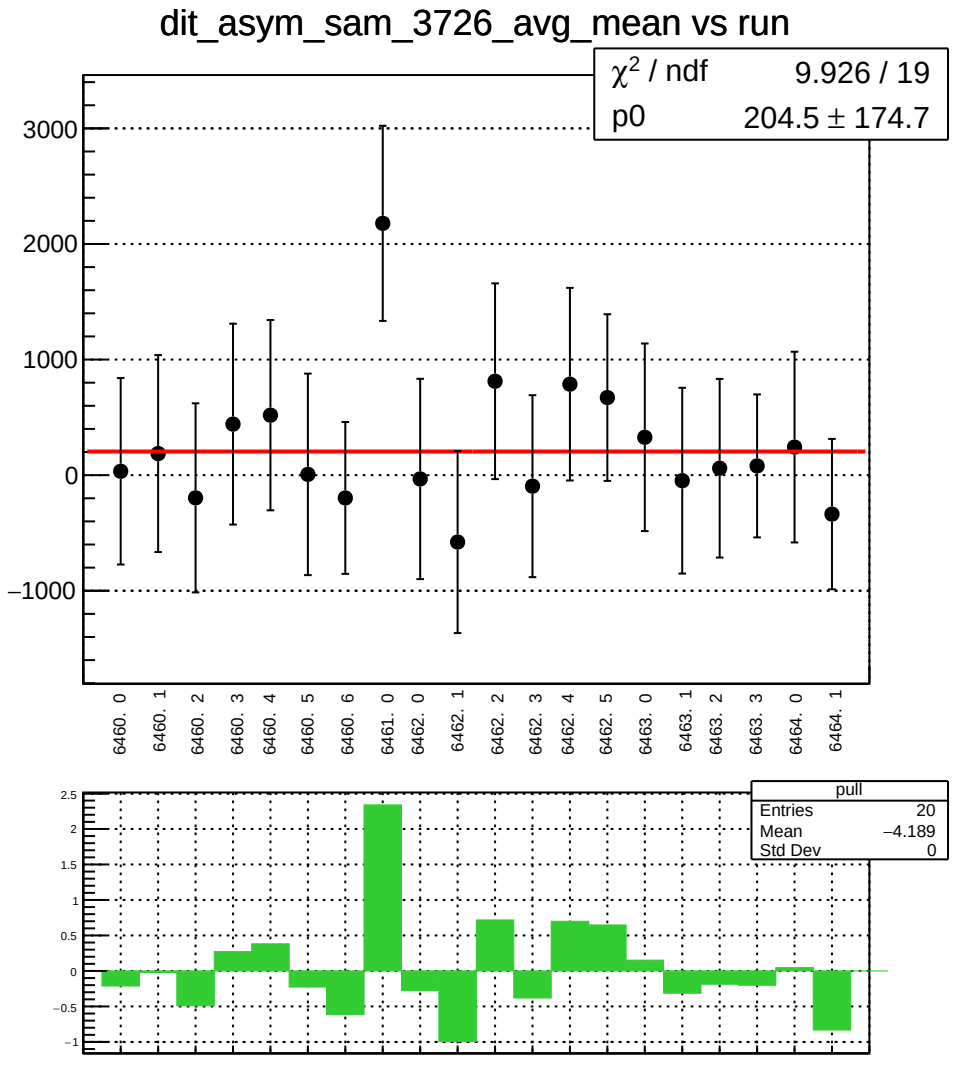

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 17.07 / 19
p0 133.1 ± 139.6
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 51.63
Std Dev 0
pull1D
Entries 20
Mean 0.01372
Std Dev 0.9238

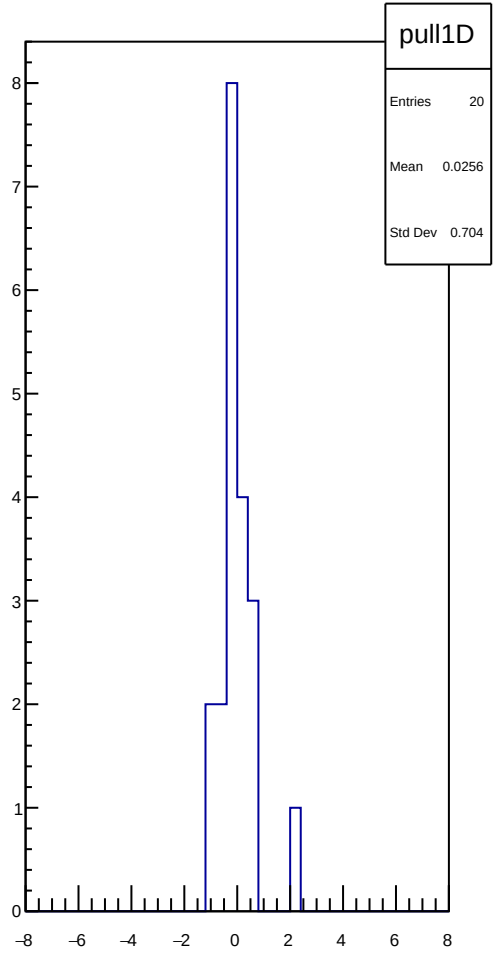

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 868.4 / 19
p0 62.76 ± 0.0987
70
68
66
64
62
60
58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

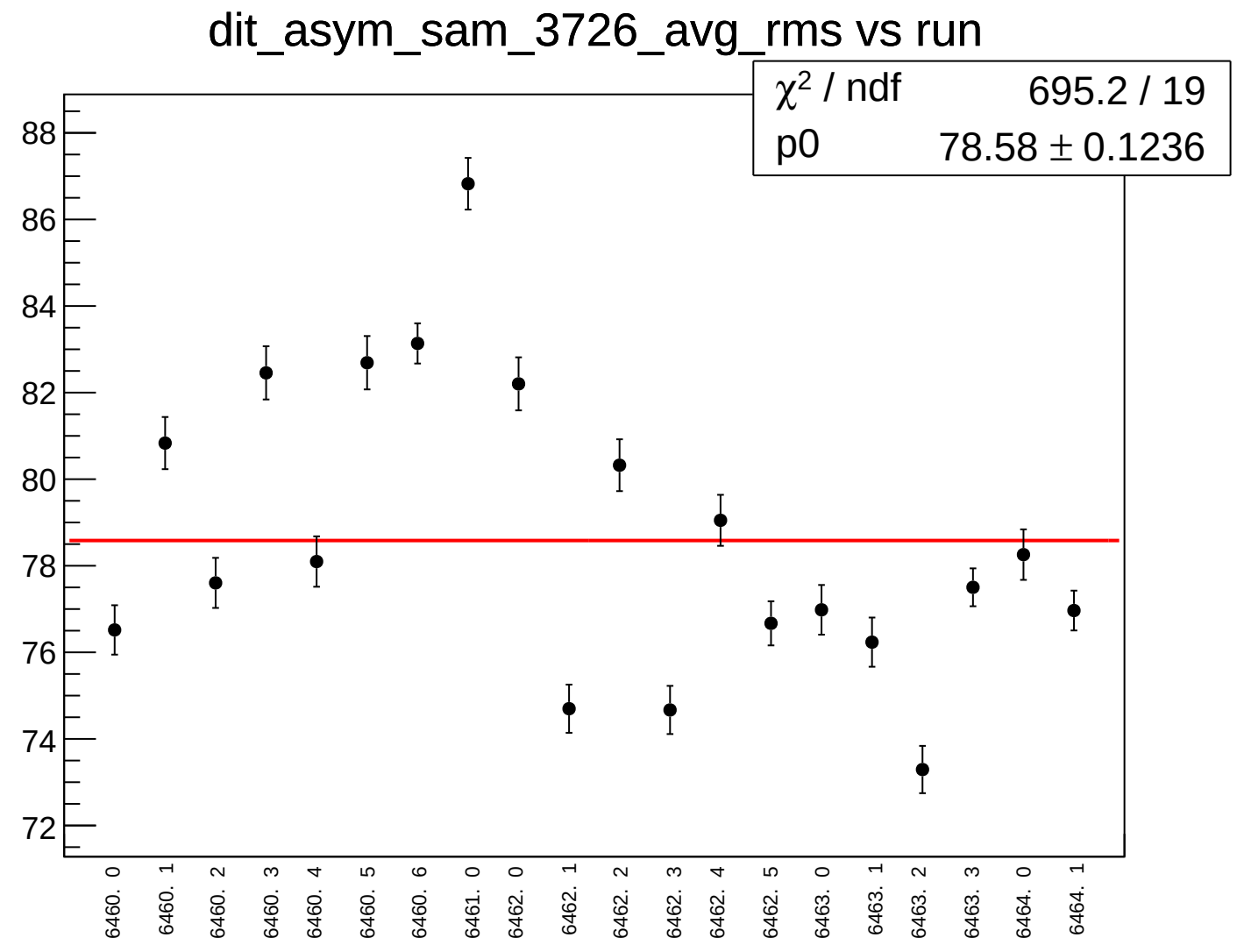

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.67 / 19
p0 −301.9 ± 1681
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 73.84
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

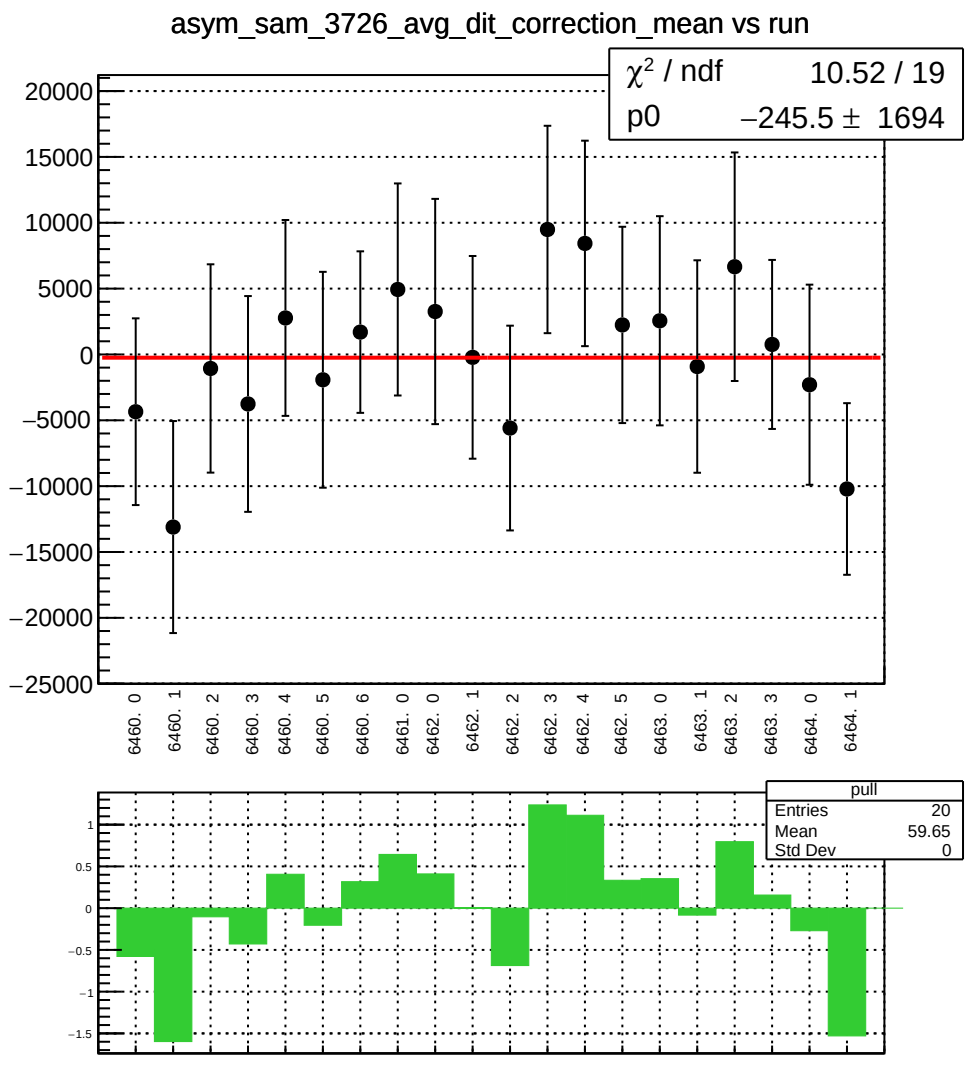

pull1D
Entries 20
Mean 0.01217
Std Dev 0.7304
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

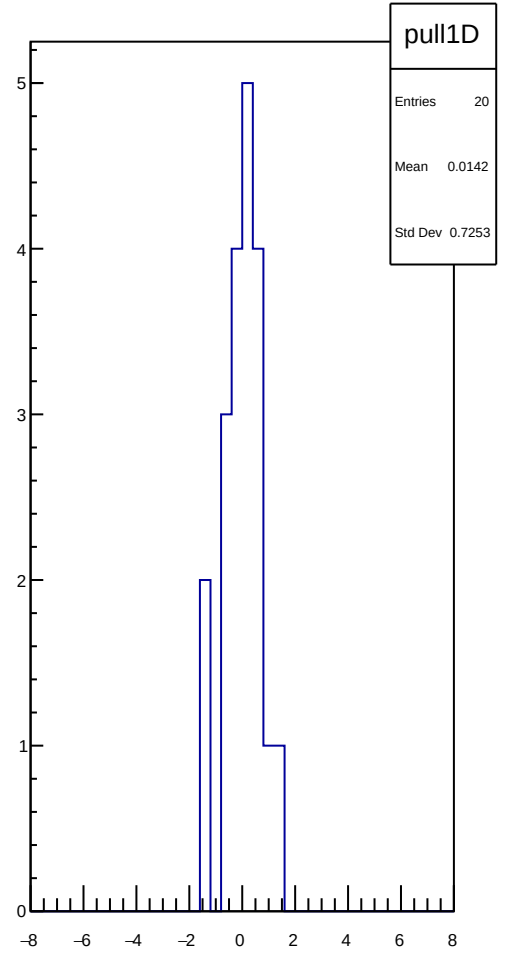

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1298 / 19
p0 755.6 ± 1.189
850
800
750
700
650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

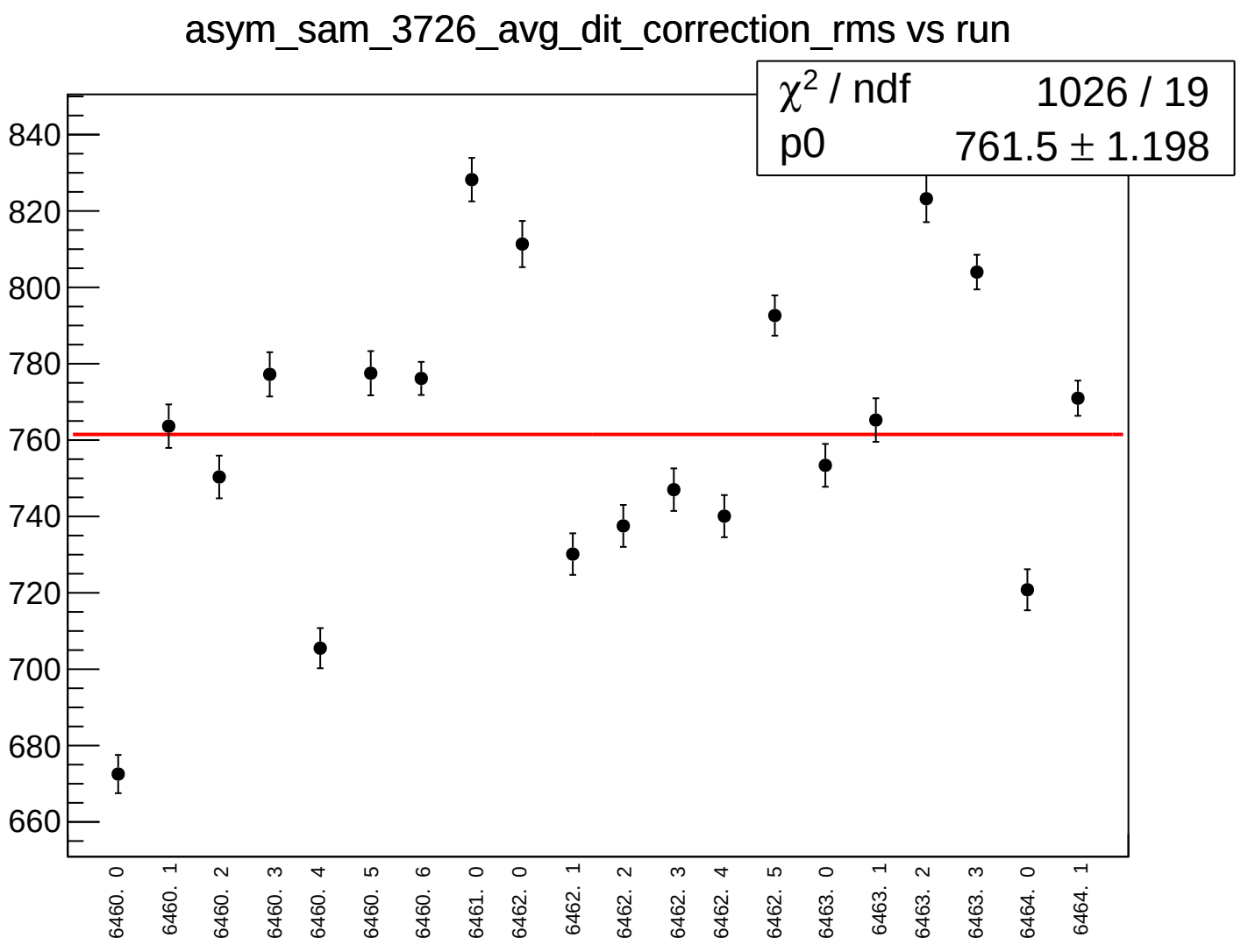

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 9.926 / 19
p0 204.5 ± 174.7
3000
2000
1000
0
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.189
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

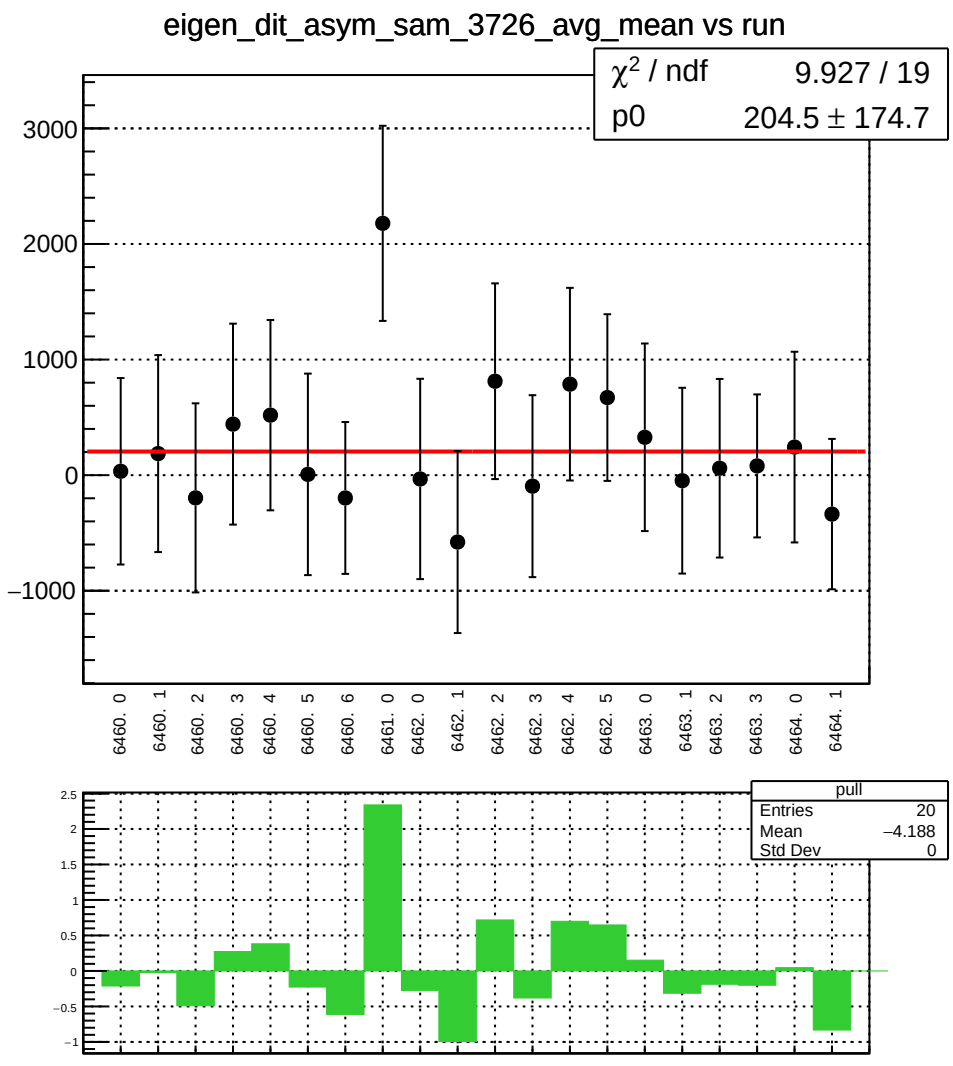

pull1D
Entries 20
Mean 0.0256
Std Dev 0.704
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

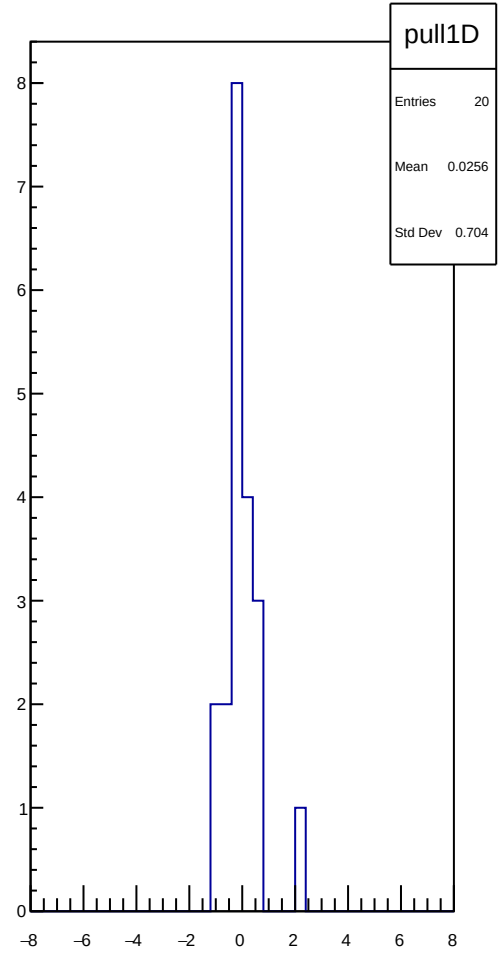

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 695.2 / 19
p0 78.58 ± 0.1236
88
86
84
82
80
78
76
74
72
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

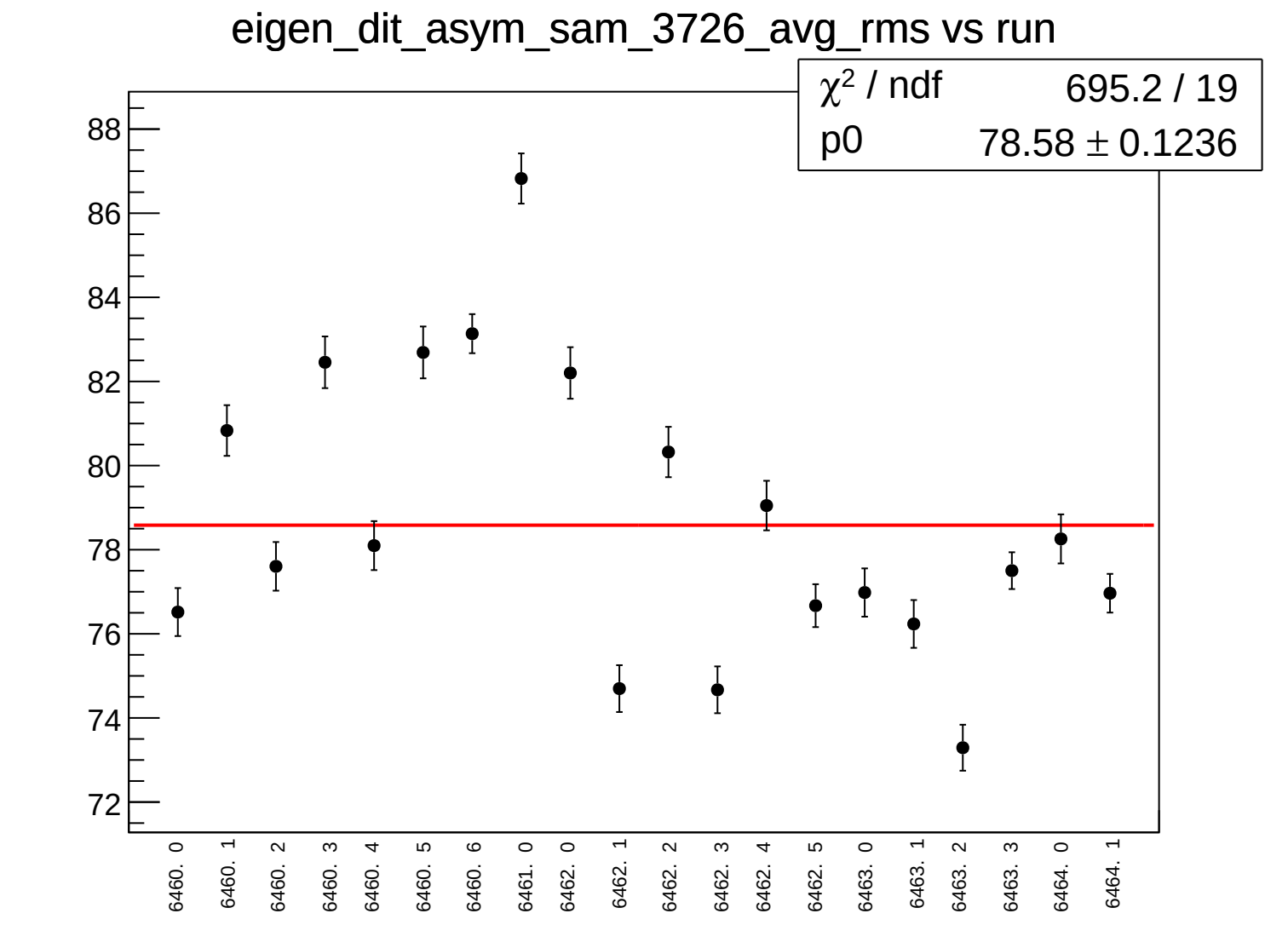

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 10.52 / 19
p0 −245.5 ± 1694
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.65
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

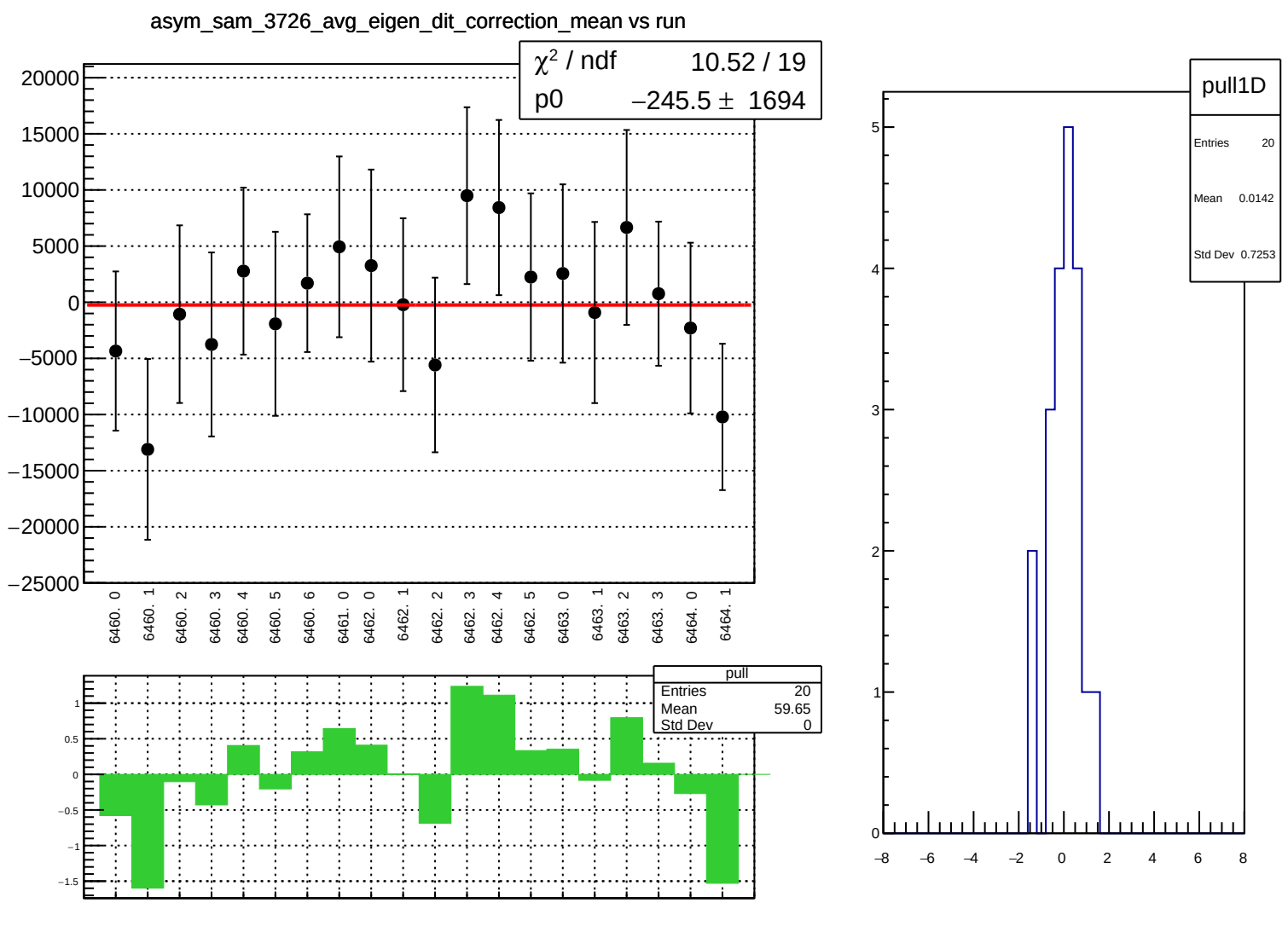

pull1D
Entries 20
Mean 0.0142
Std Dev 0.7253
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

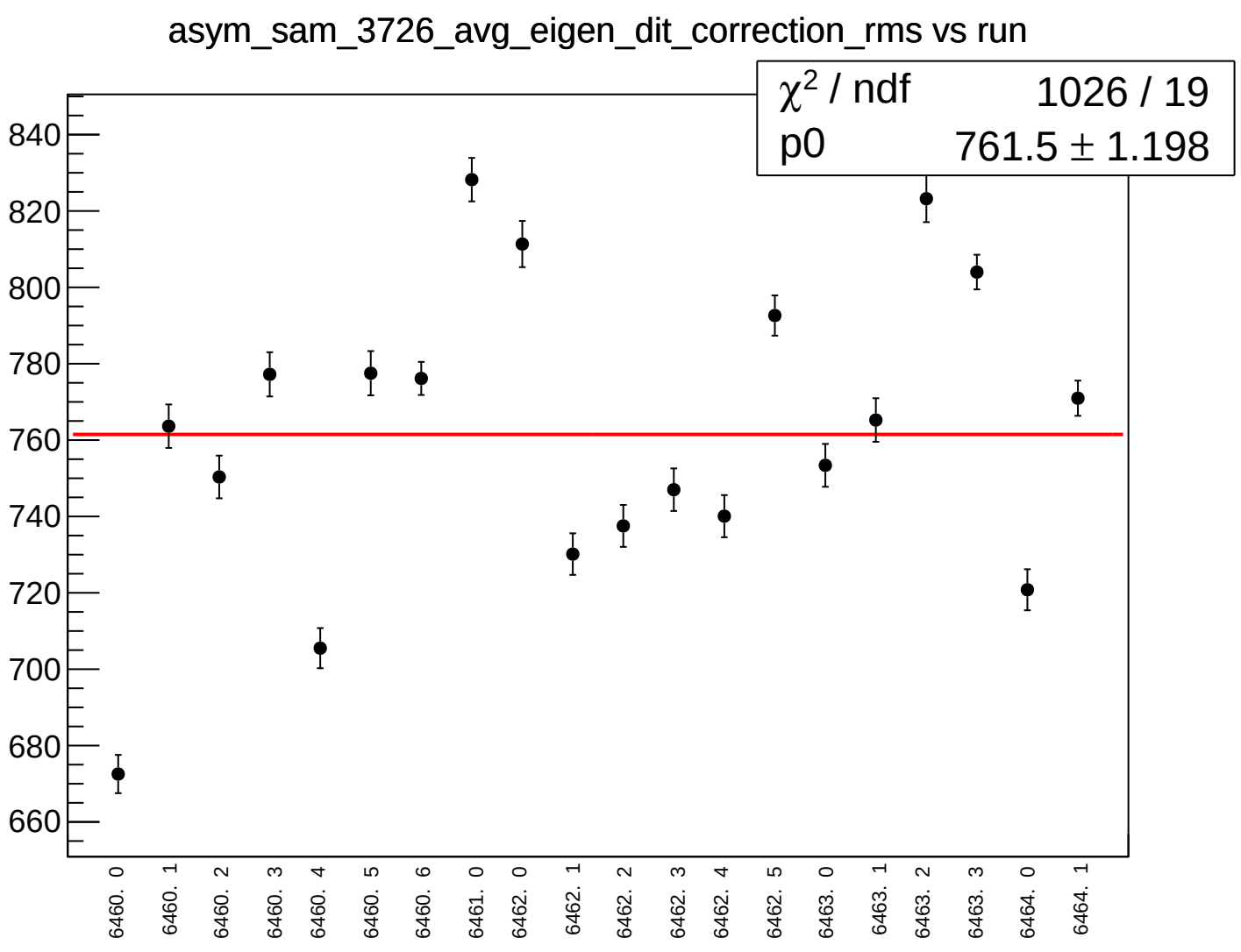

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1026 / 19
p0 761.5 ± 1.198
840
820
800
780
760
740
720
700
680
660
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

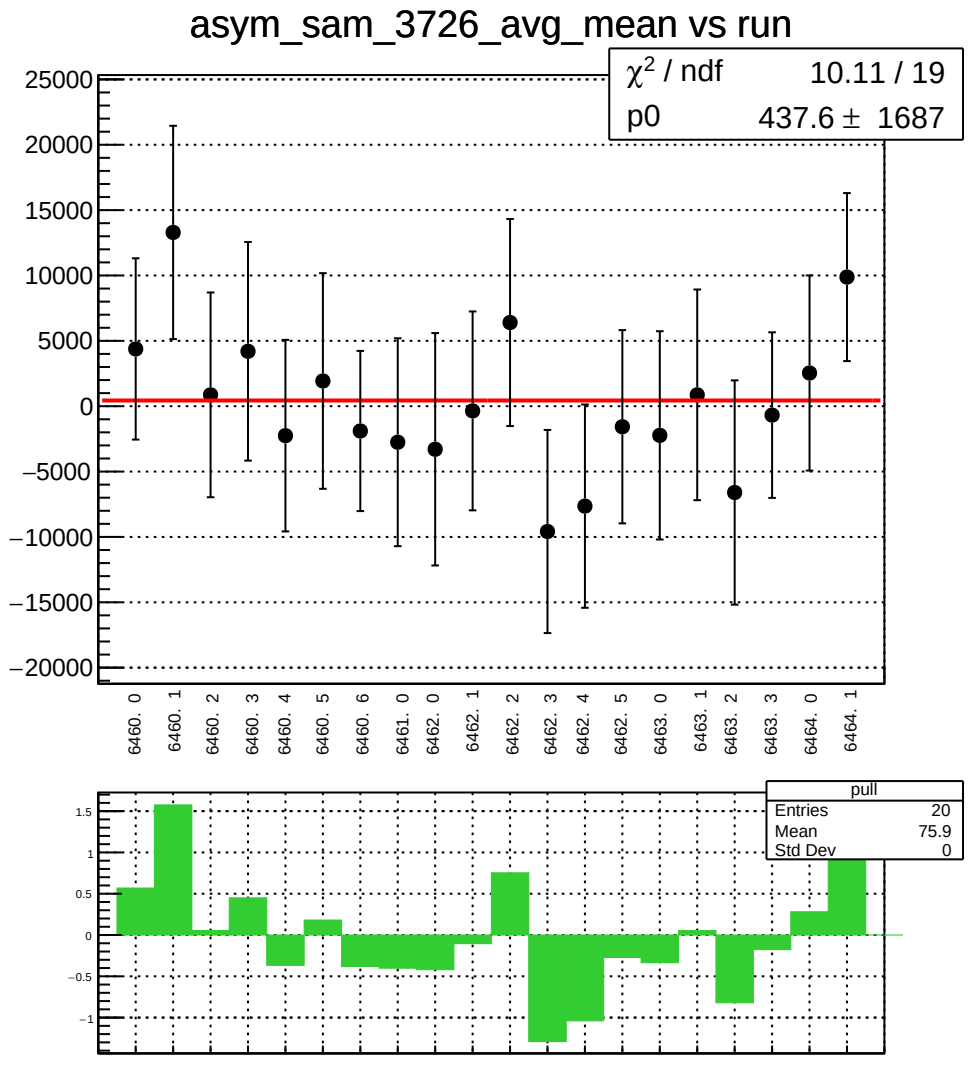

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 9.927 / 19
p0 204.5 ± 174.7
3000
2000
1000
0
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.188
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

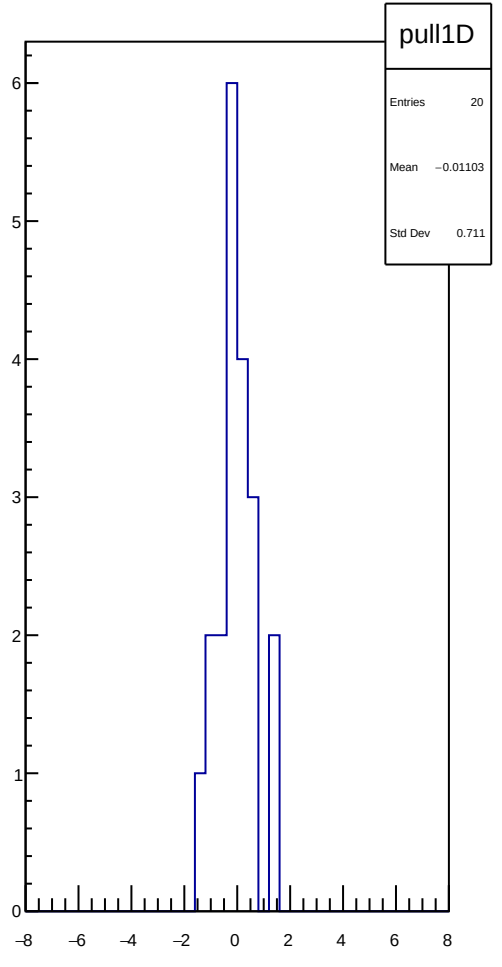

pull1D
Entries 20
Mean 0.0256
Std Dev 0.704
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

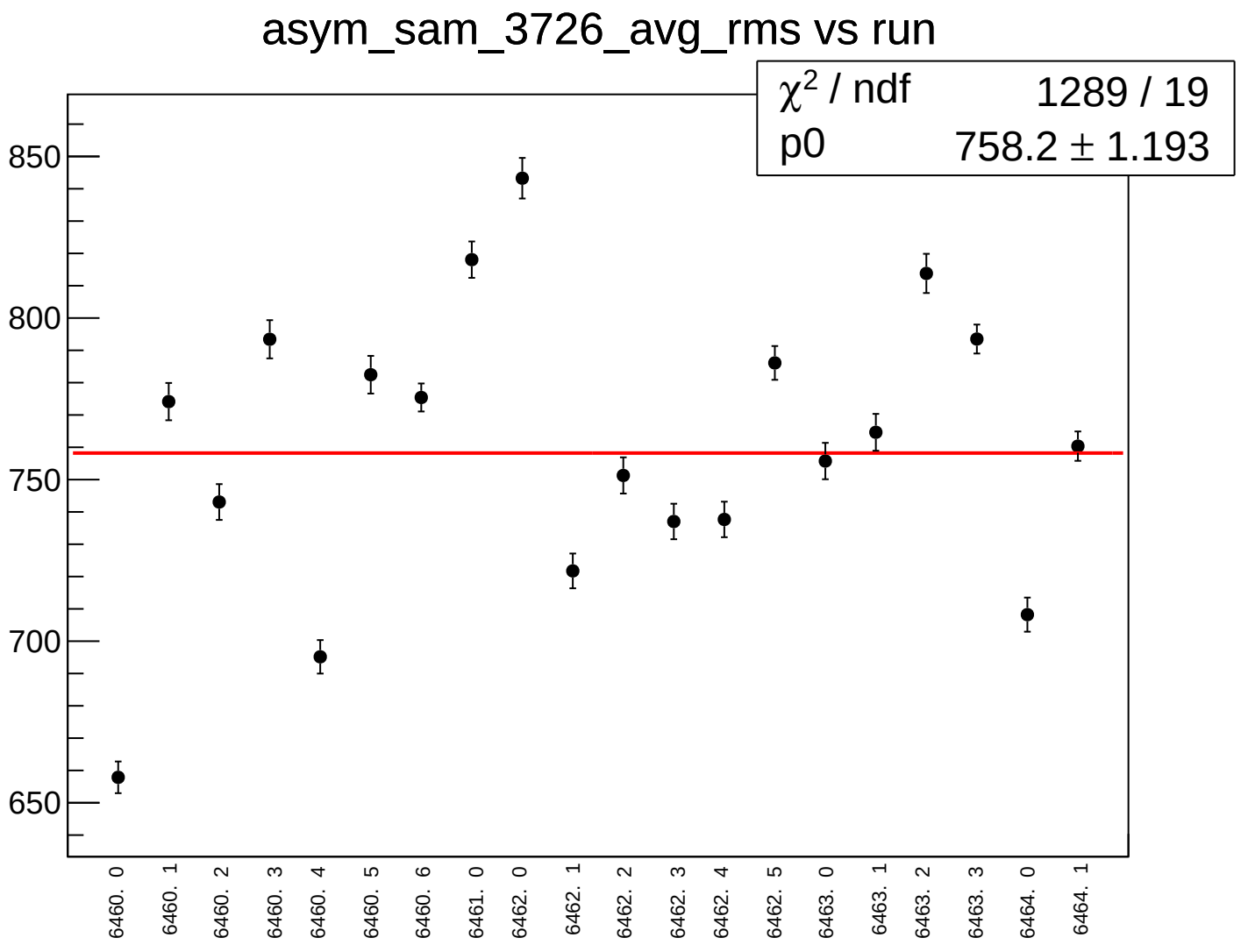

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 695.2 / 19
p0 78.58 ± 0.1236
88
86
84
82
80
78
76
74
72
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

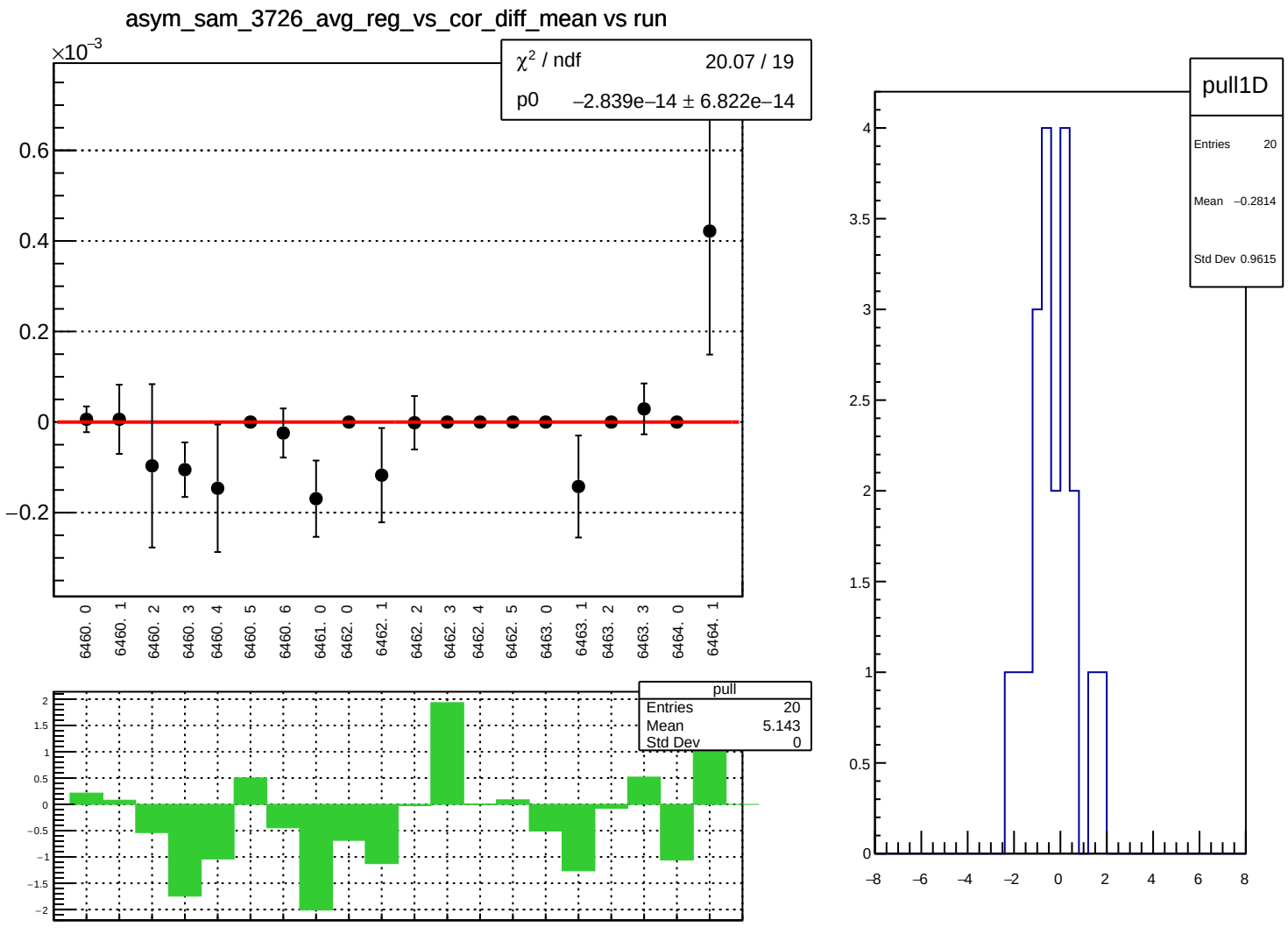

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.52 / 19
p0 −245.5 ± 1694
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.65
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0142
Std Dev 0.7253
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

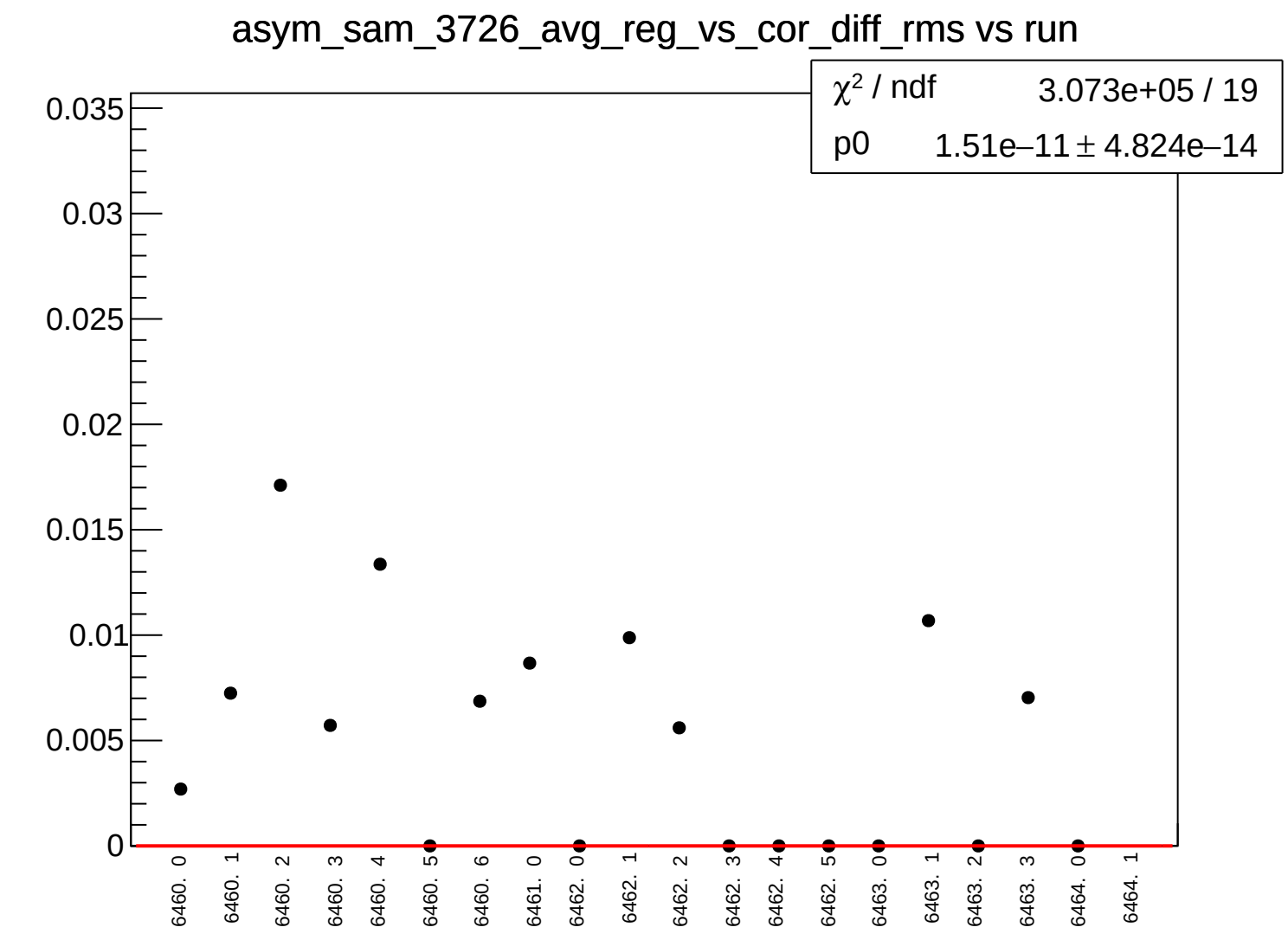

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1026 / 19
p0 761.5 ± 1.198
840
820
800
780
760
740
720
700
680
660
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

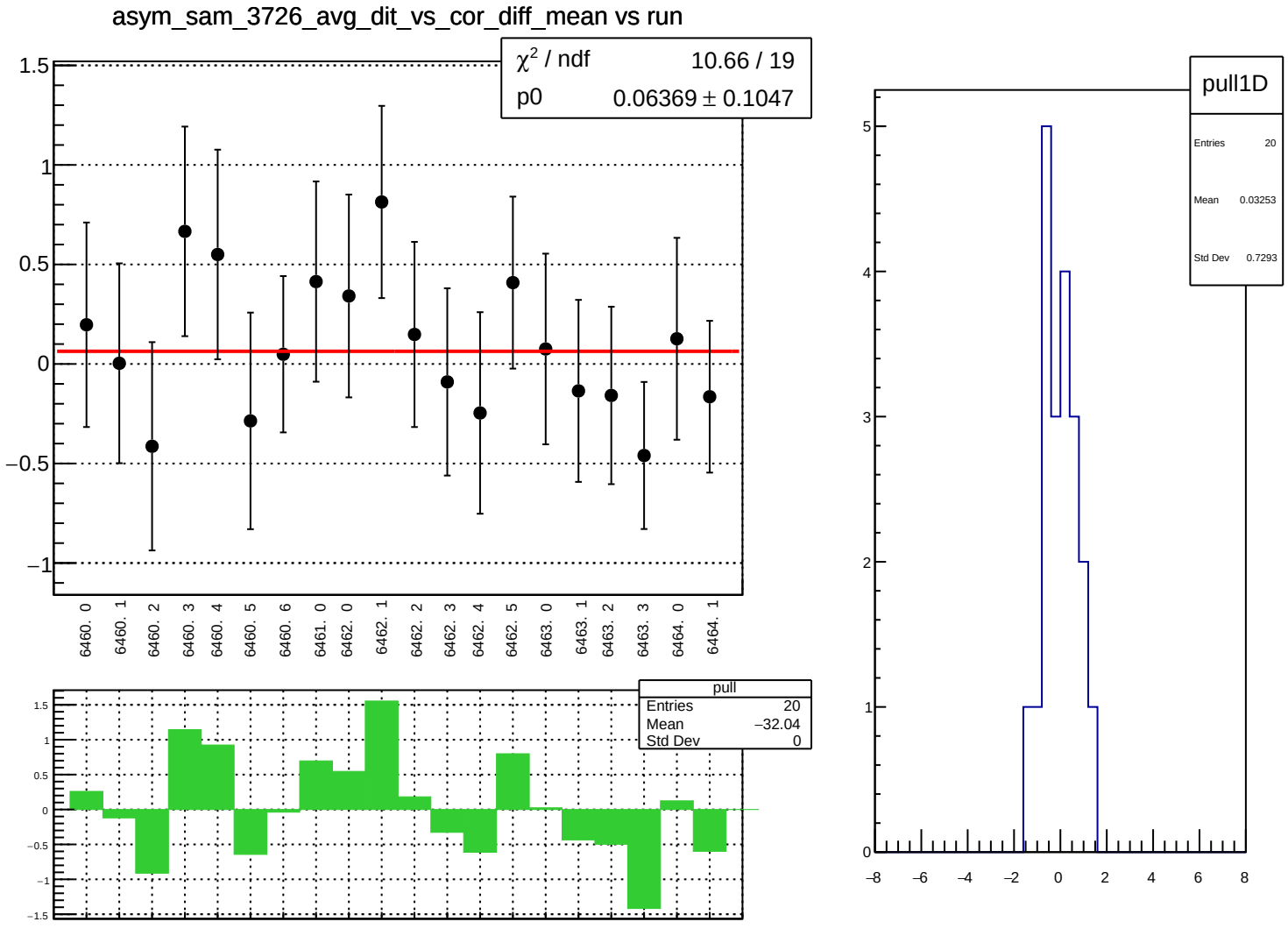

asym_sam_3726_avg_mean vs run
χ² / ndf 10.11 / 19
p0 437.6 ± 1687
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 75.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

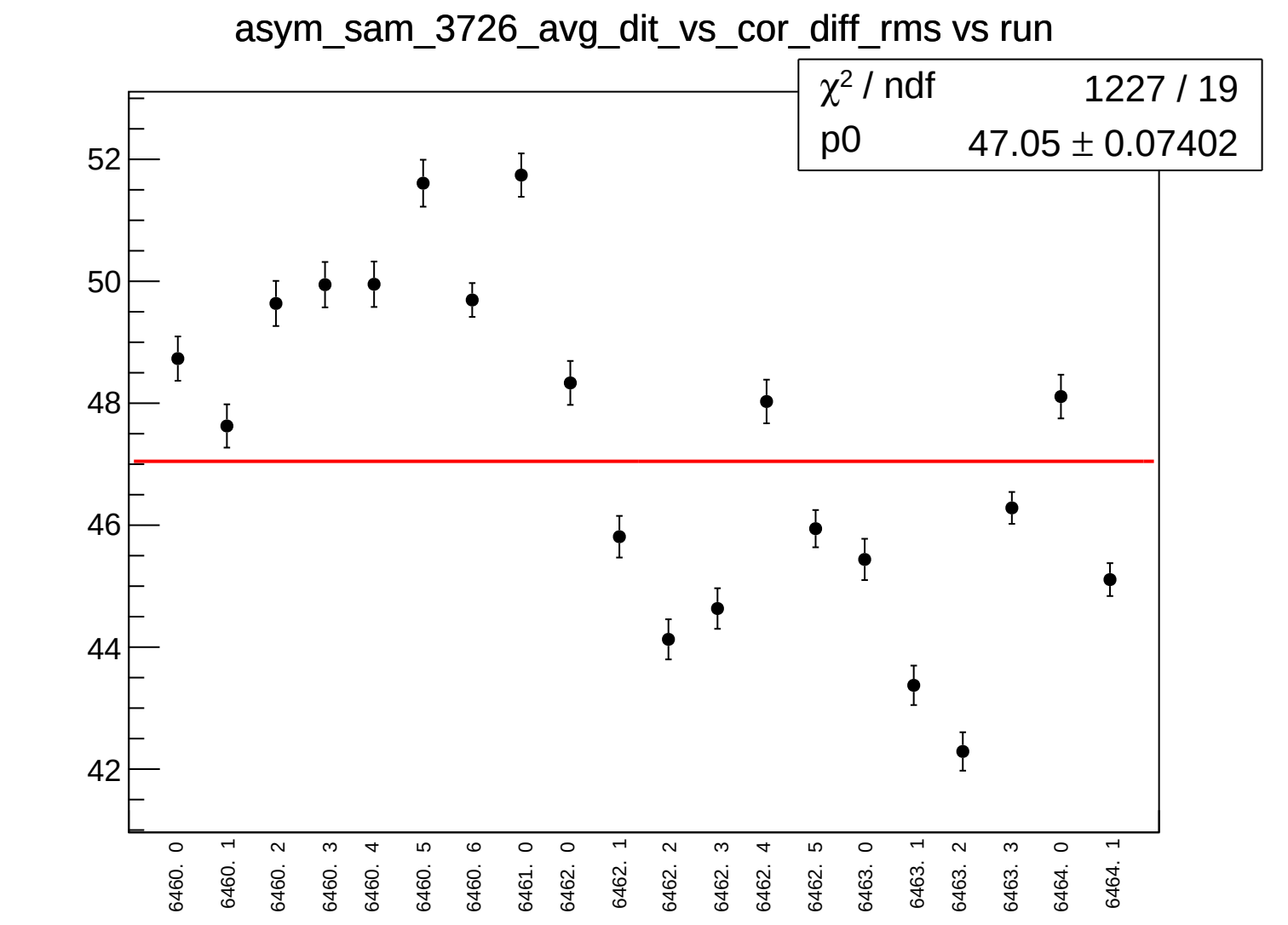

pull1D
Entries 20
Mean −0.01103
Std Dev 0.711
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

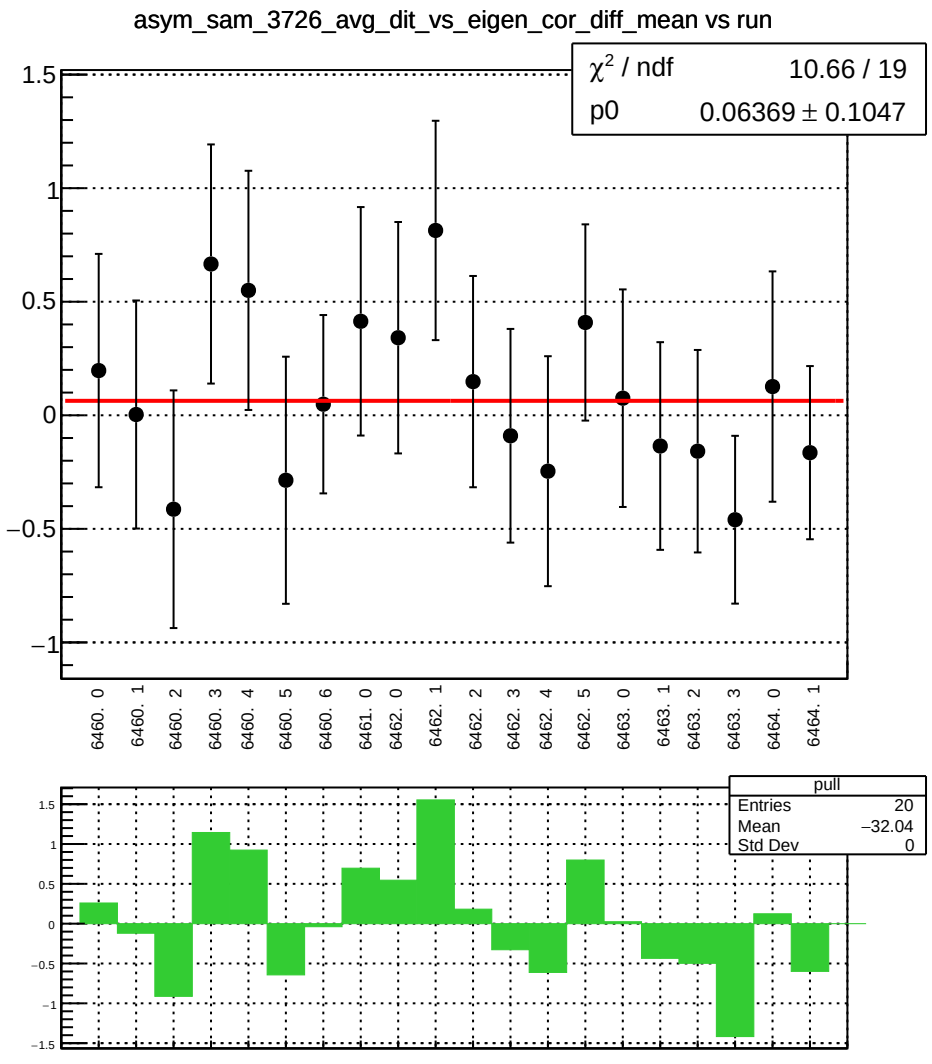

asym_sam_3726_avg_rms vs run
χ² / ndf 1289 / 19
p0 758.2 ± 1.193
850
800
750
700
650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

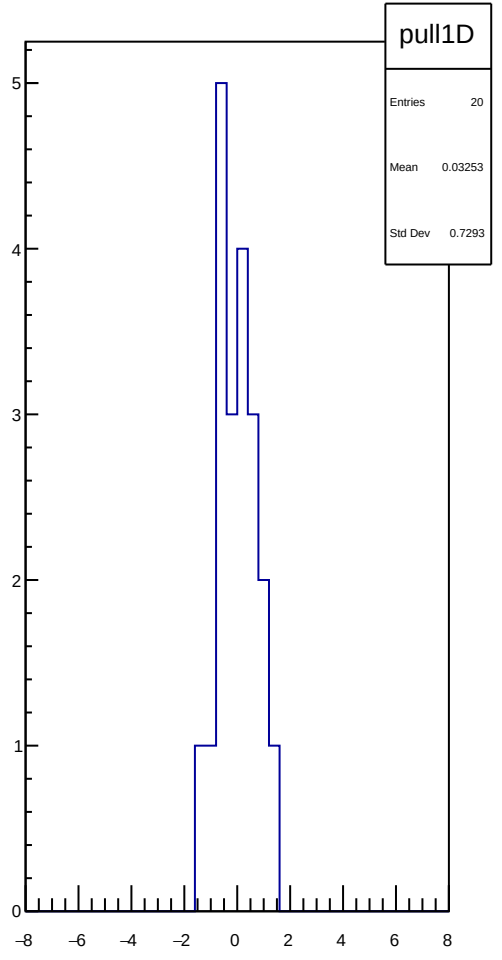

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 20.07 / 19
p0 −2.839e−14 ± 6.822e−14
0.6
0.4
0.2
0
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.143
Std Dev 0
pull1D
Entries 20
Mean −0.2814
Std Dev 0.9615

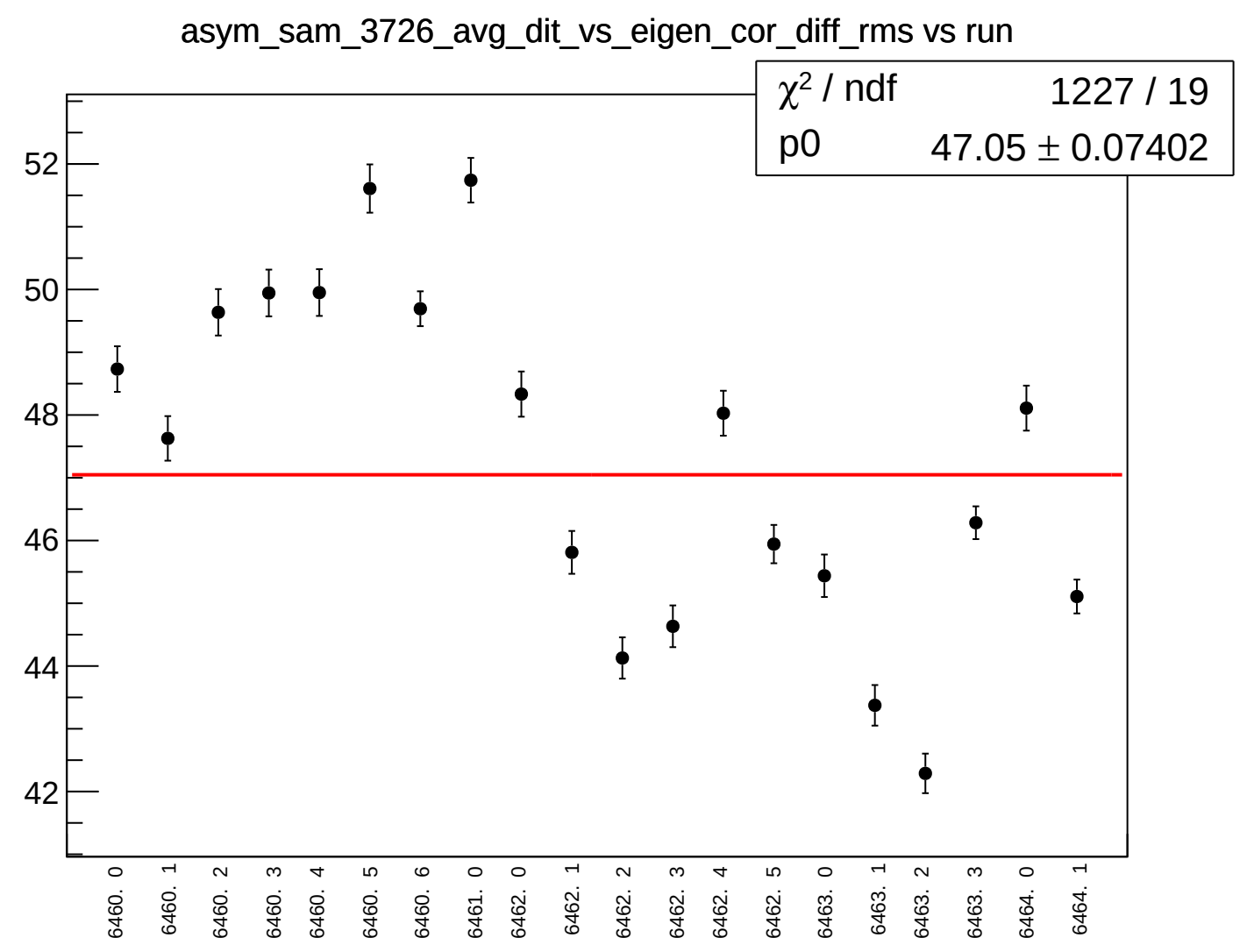

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.073e+05 / 19
p0 1.51e−11 ± 4.824e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

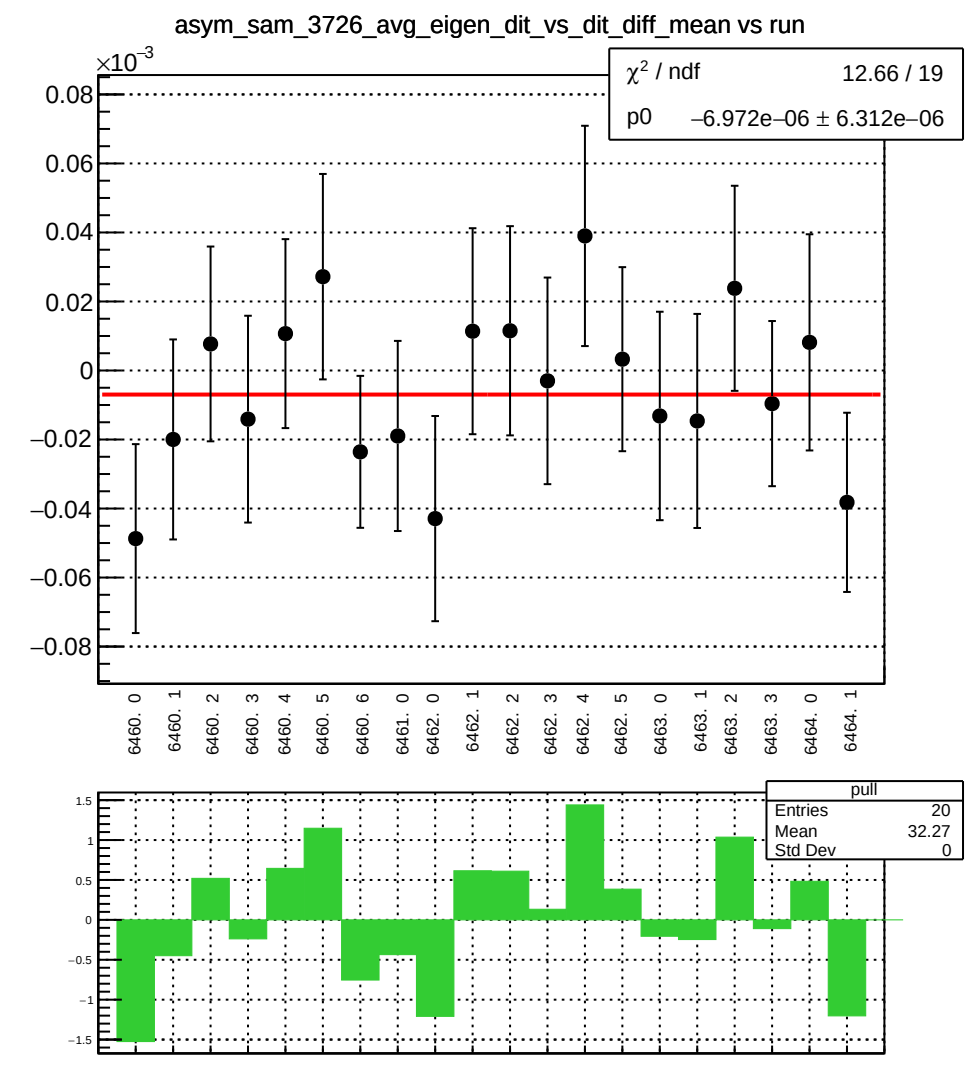

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 10.66 / 19
p0 0.06369 ± 0.1047
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −32.04
Std Dev 0
pull1D
Entries 20
Mean 0.03253
Std Dev 0.7293
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

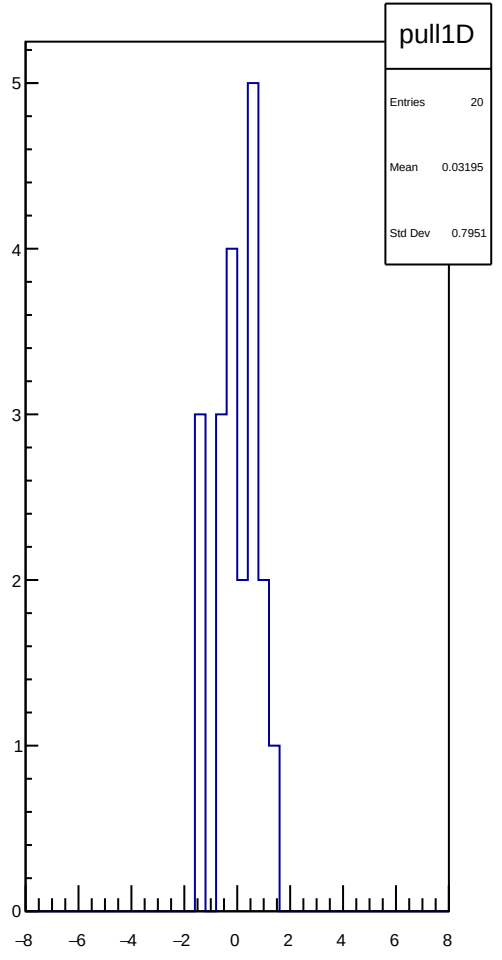

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1227 / 19
p0 47.05 ± 0.07402
52
50
48
46
44
42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

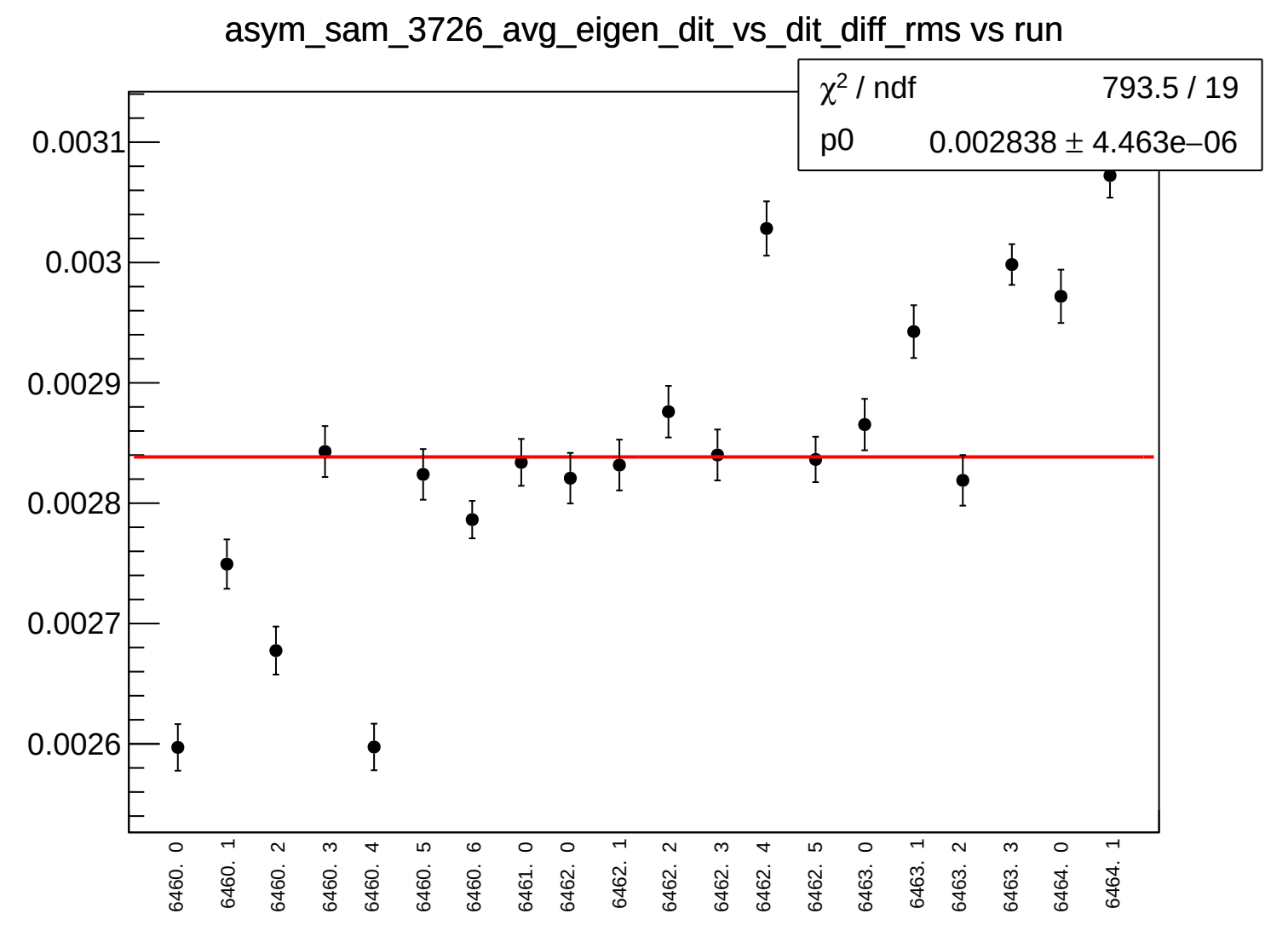

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.66 / 19
p0 0.06369 ± 0.1047
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −32.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

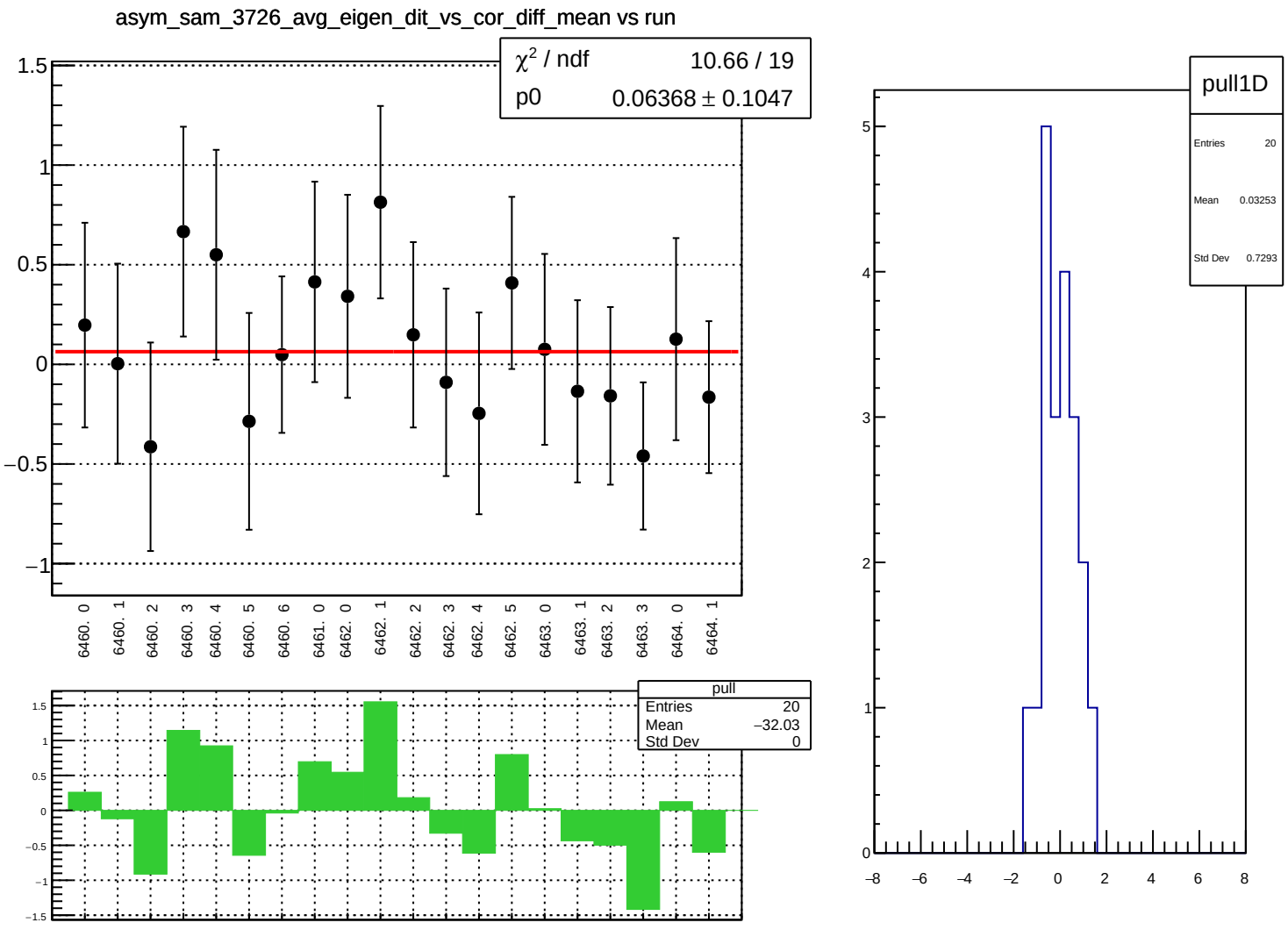

pull1D
Entries 20
Mean 0.03253
Std Dev 0.7293
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

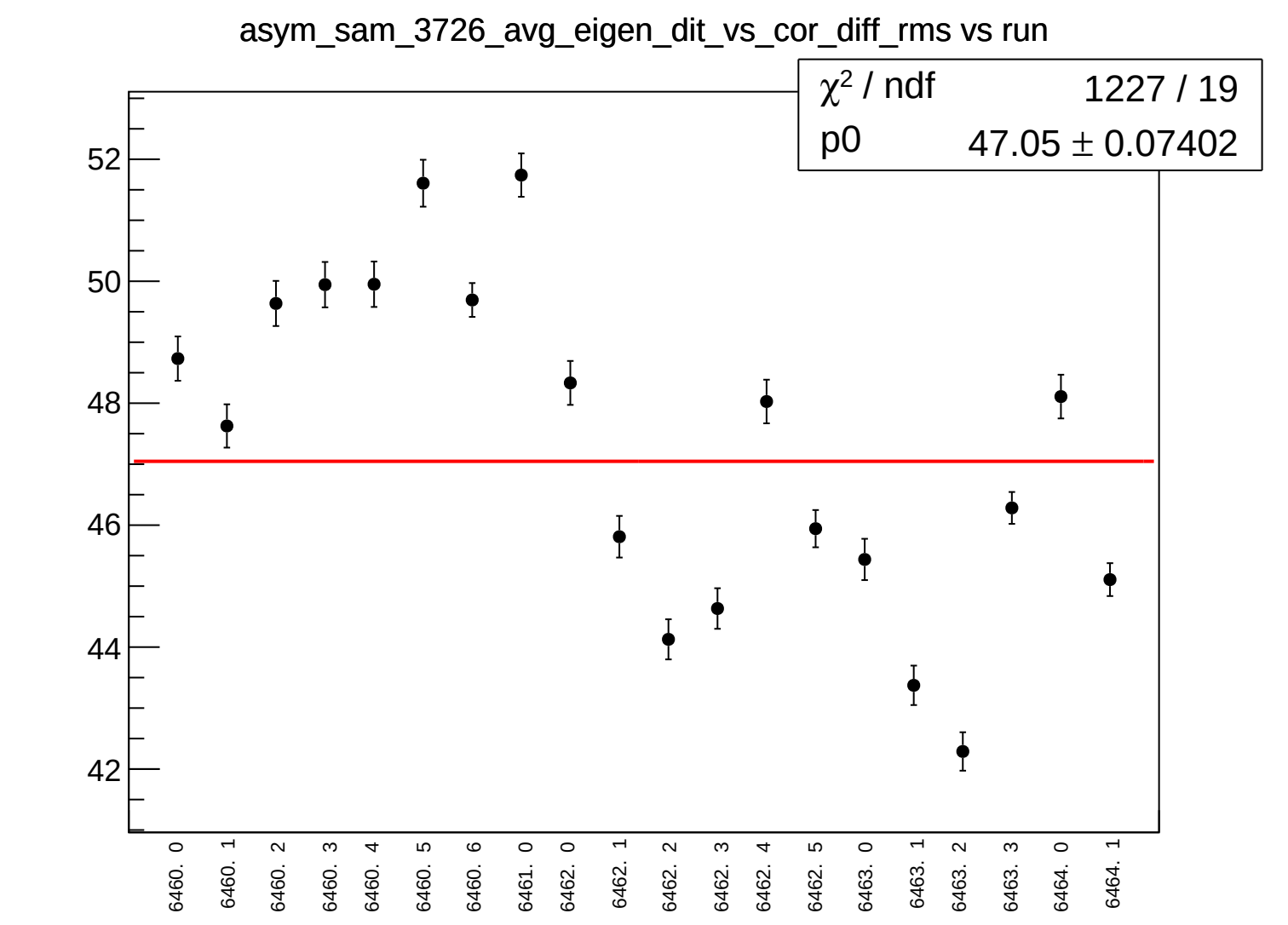

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1227 / 19
p0 47.05 ± 0.07402
52
50
48
46
44
42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

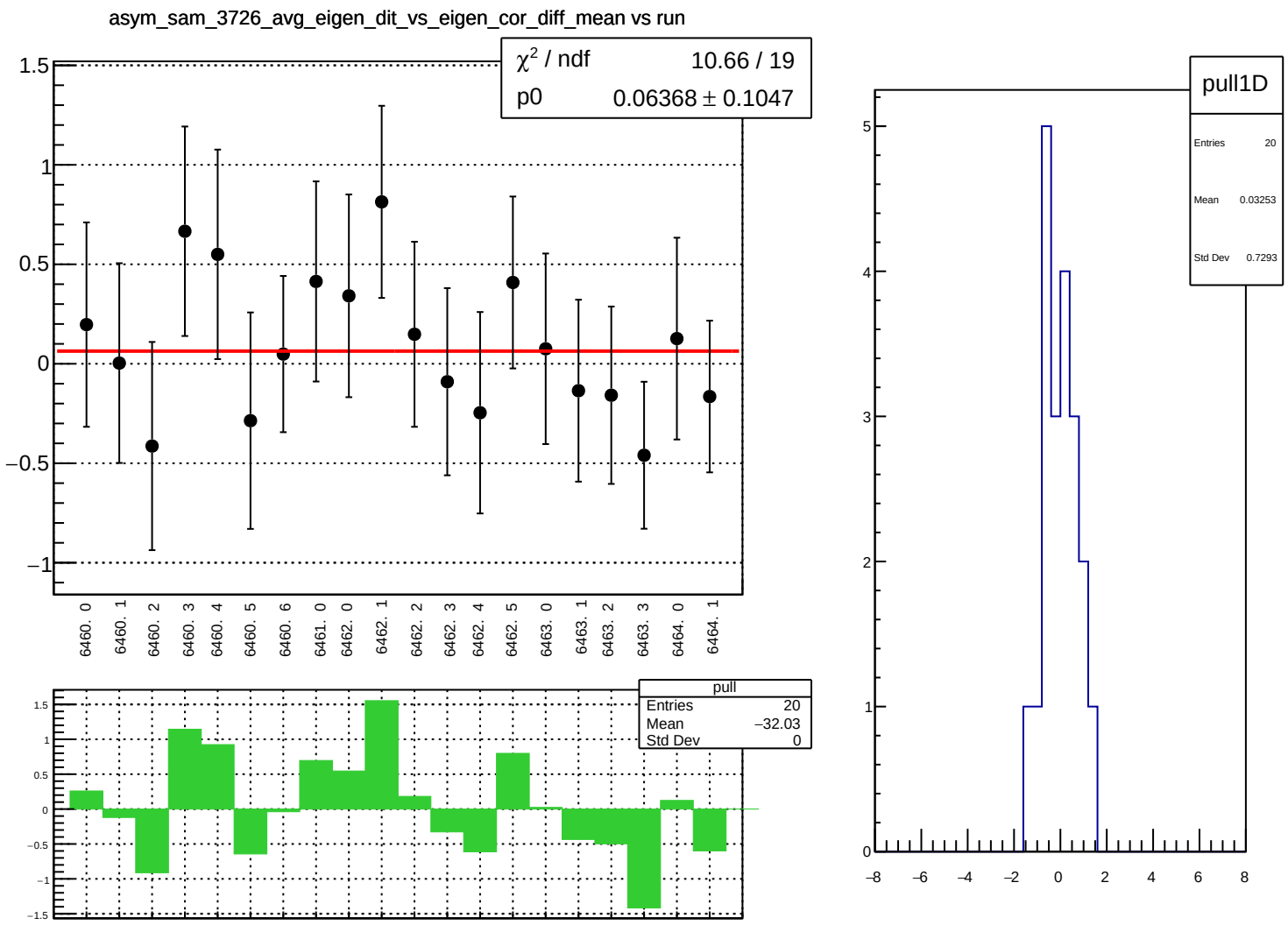

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.66 / 19
p0 −6.972e−06 ± 6.312e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

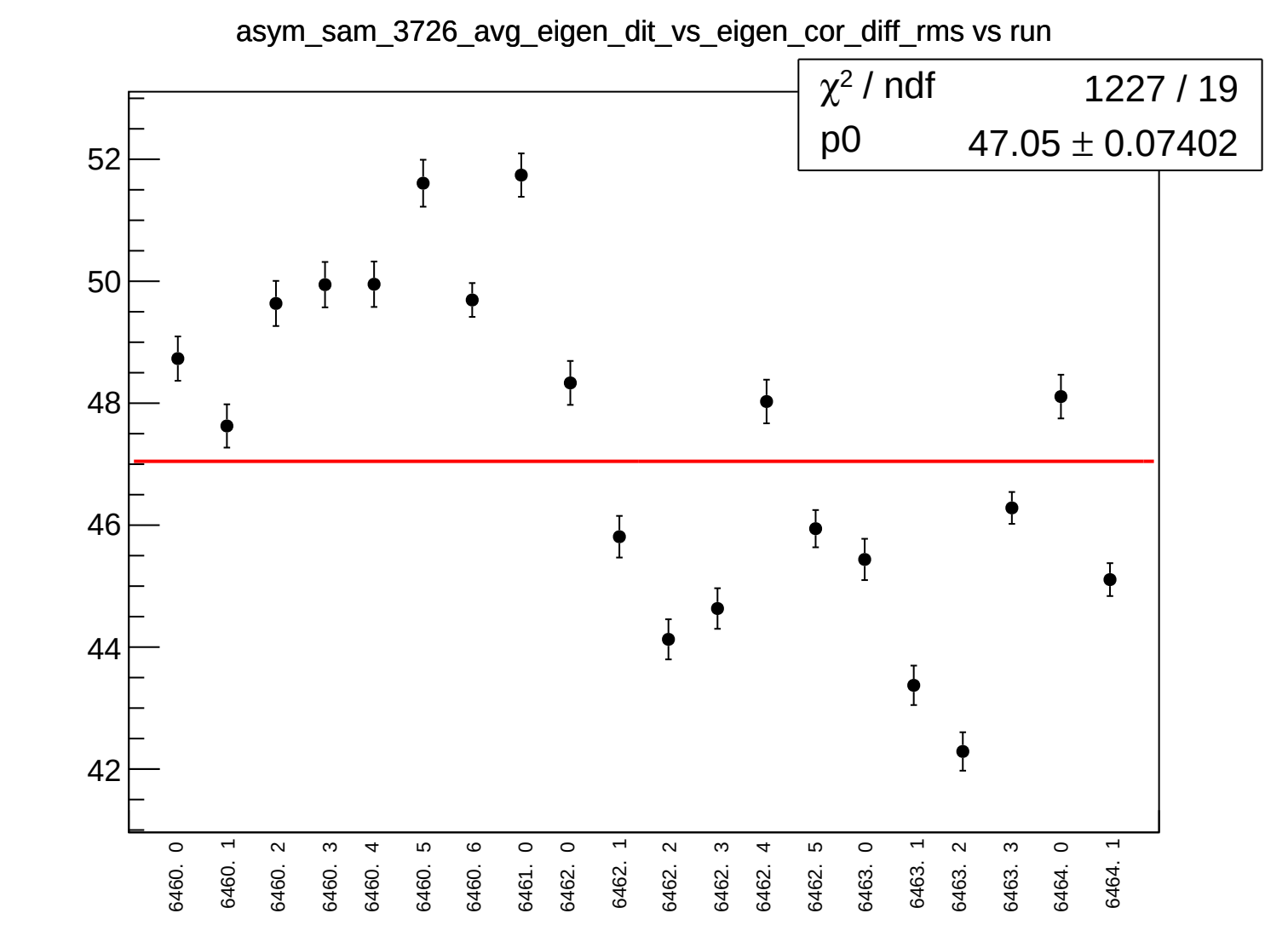

pull1D
Entries 20
Mean 0.03195
Std Dev 0.7951
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

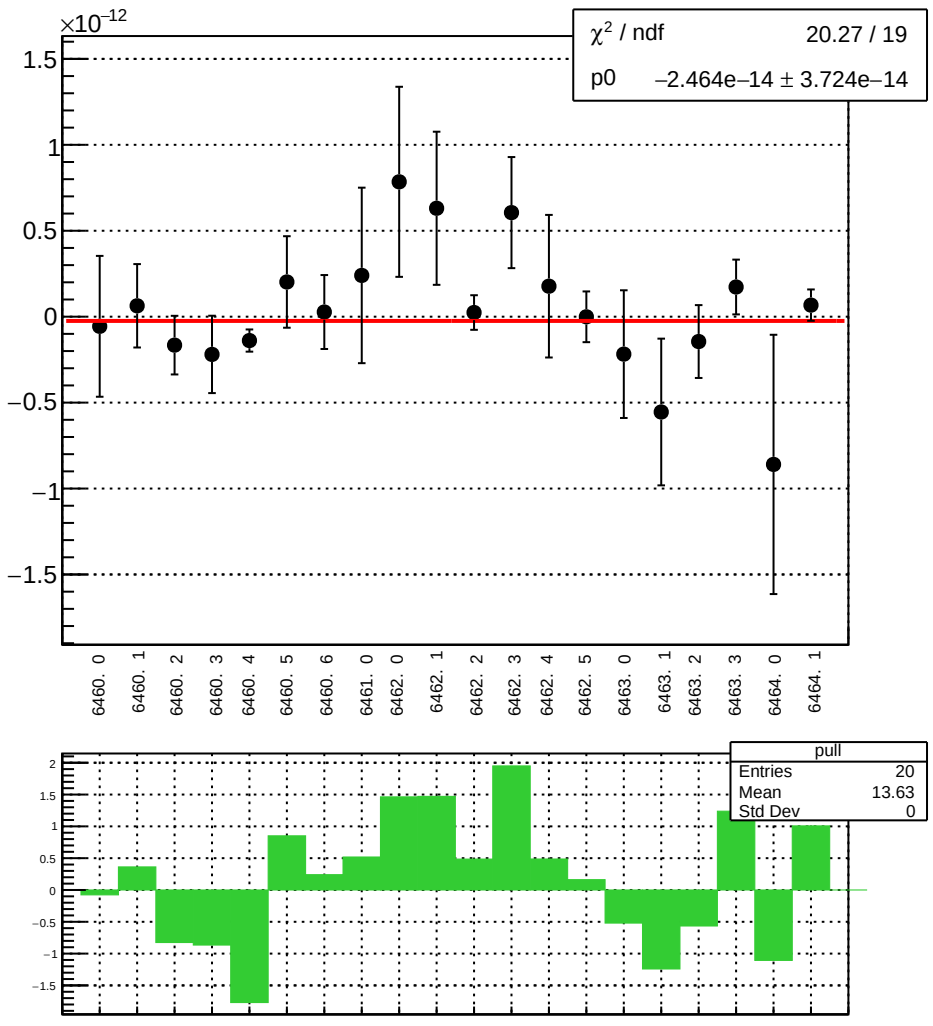

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 793.5 / 19
p0 0.002838 ± 4.463e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

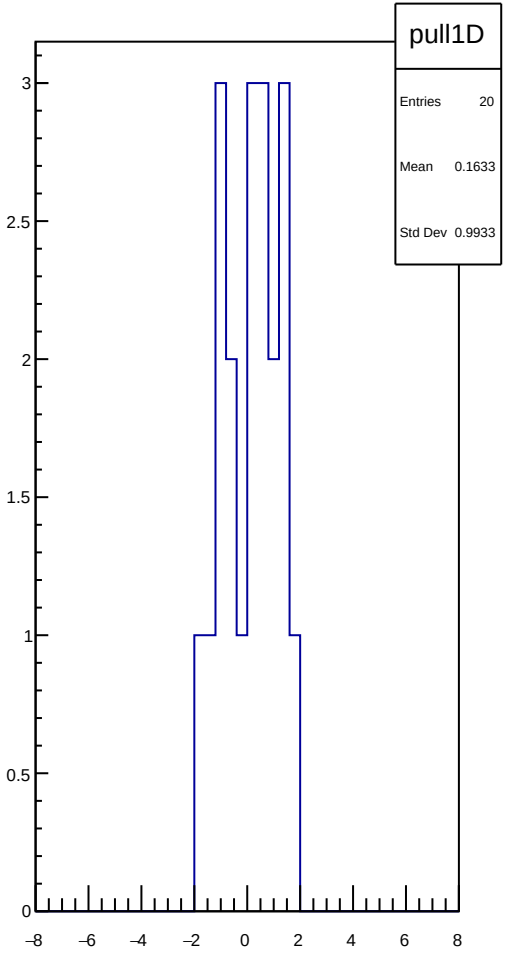

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 10.66 / 19
p0 0.06368 ± 0.1047
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −32.03
Std Dev 0
pull1D
Entries 20
Mean 0.03253
Std Dev 0.7293
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

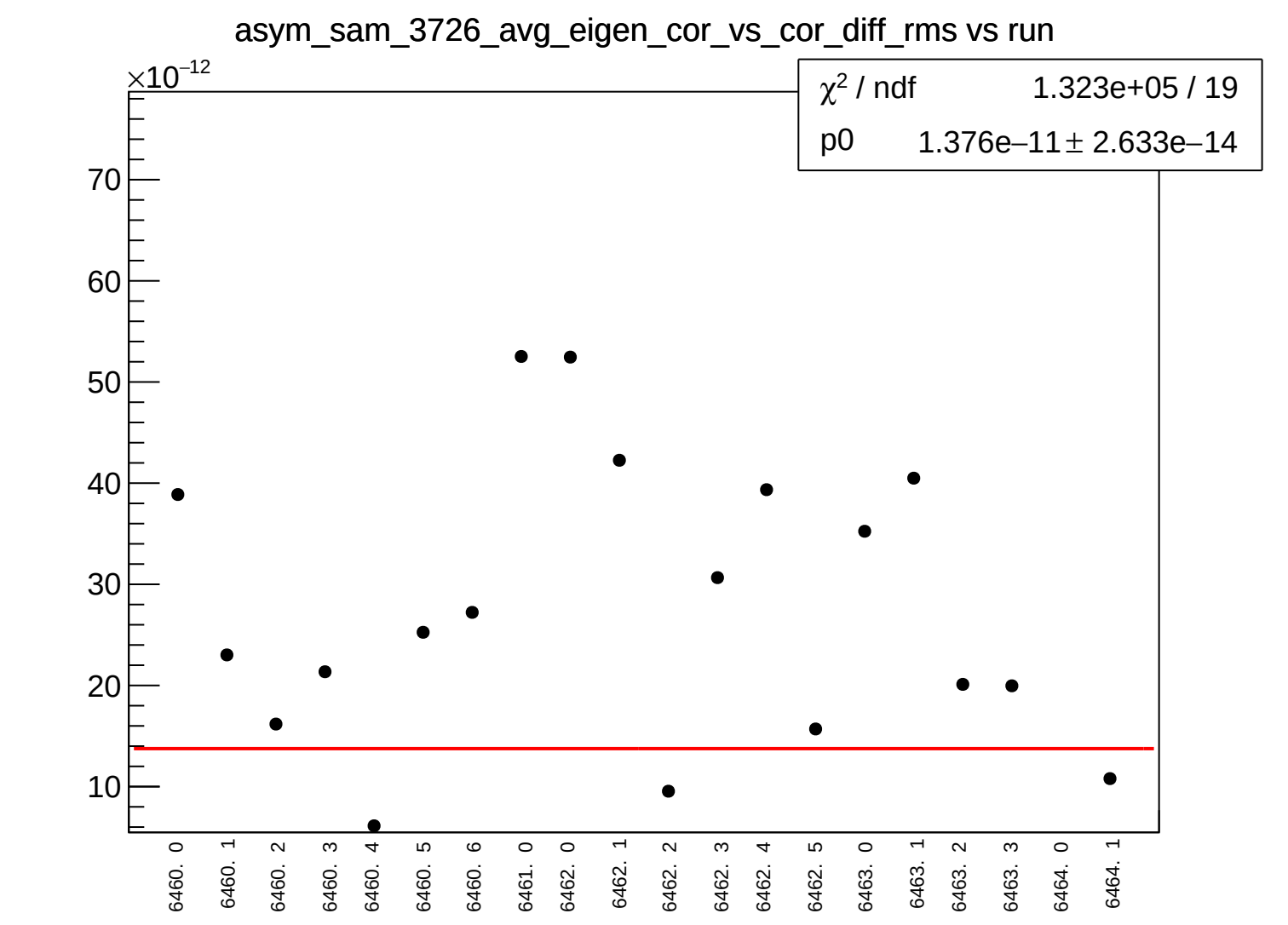

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1227 / 19
p0 47.05 ± 0.07402
52
50
48
46
44
42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

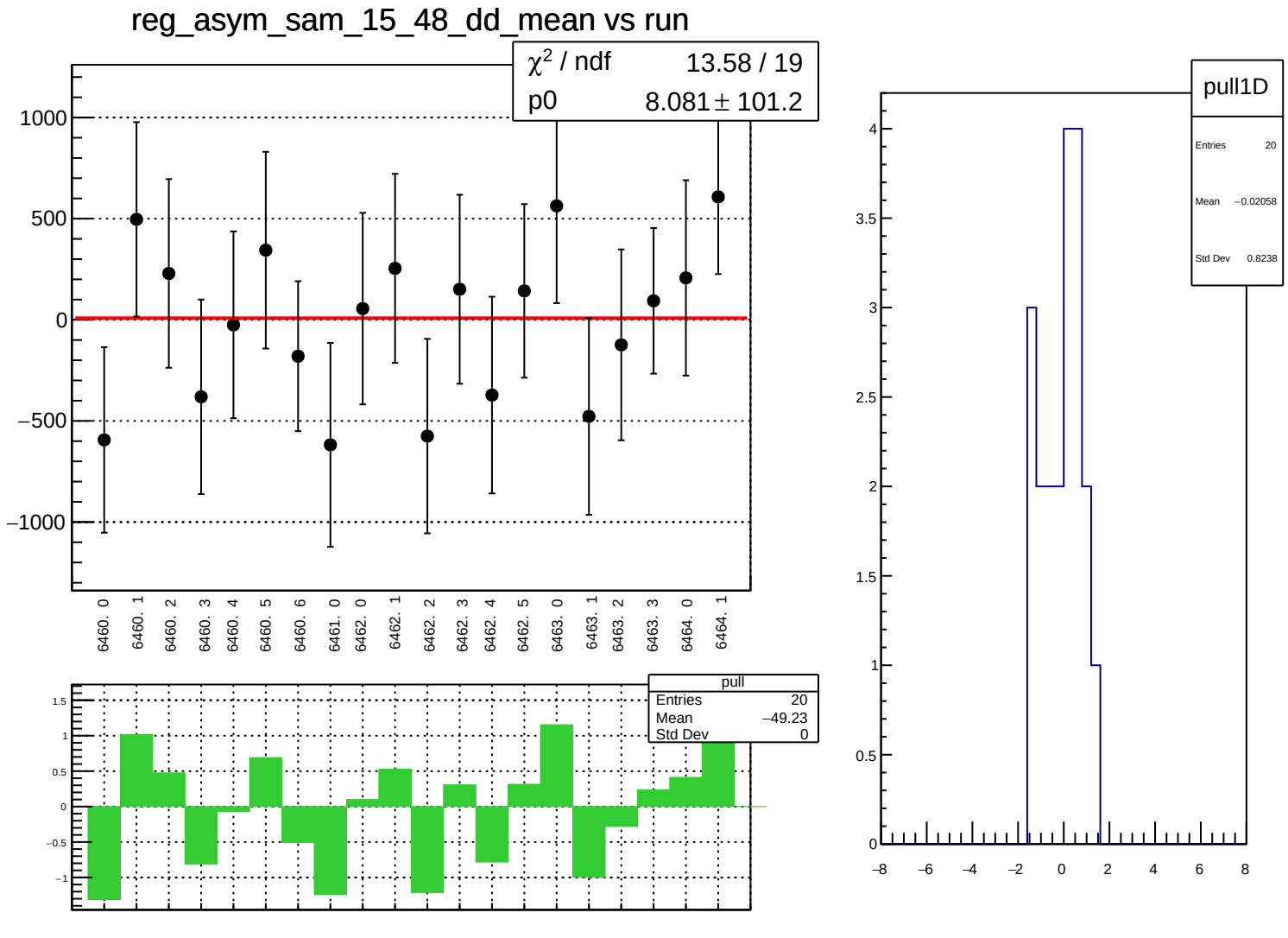

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 10.66 / 19
p0 0.06368 ± 0.1047
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −32.03
Std Dev 0
pull1D
Entries 20
Mean 0.03253
Std Dev 0.7293
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

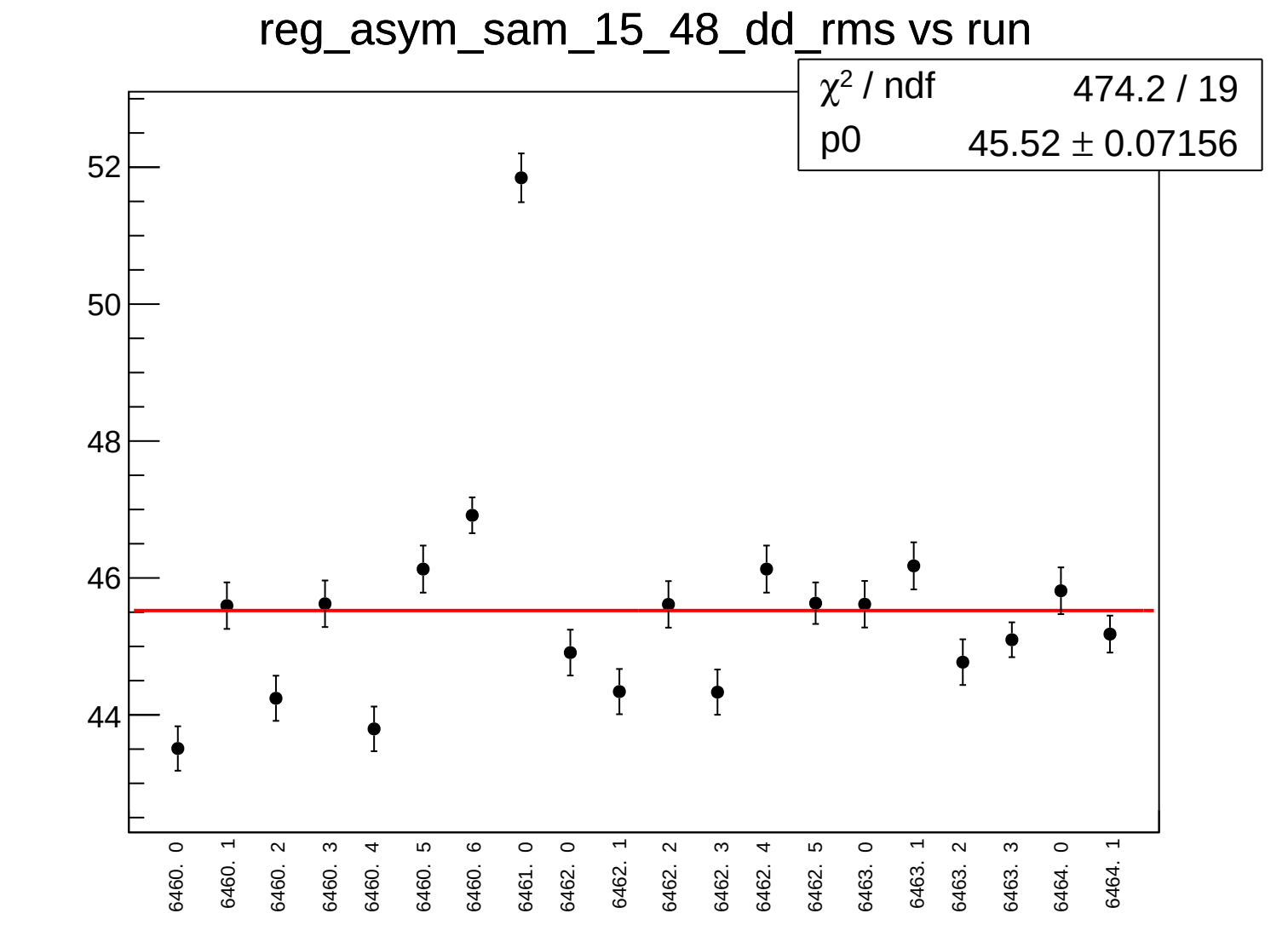

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1227 / 19
p0 47.05 ± 0.07402
52
50
48
46
44
42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

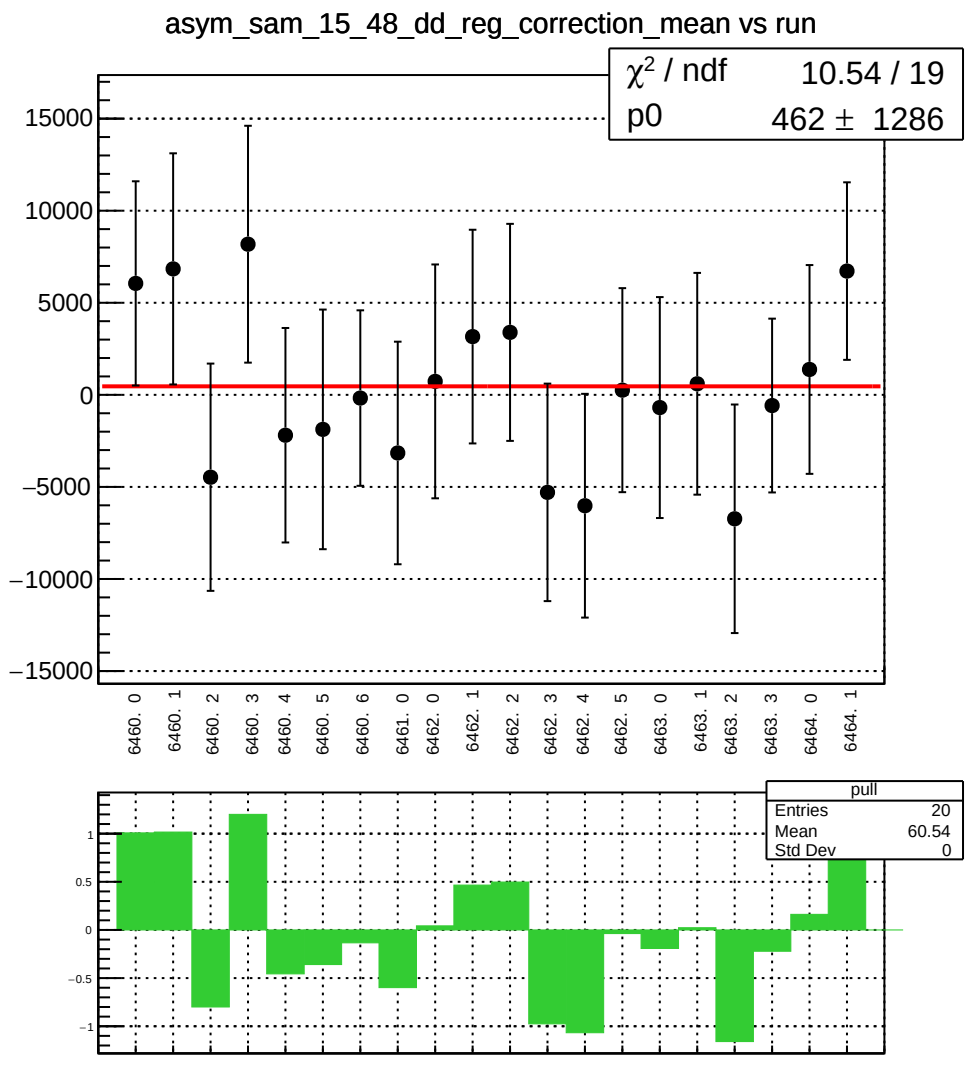

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.27 / 19
p0 −2.464e−14 ± 3.724e−14
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

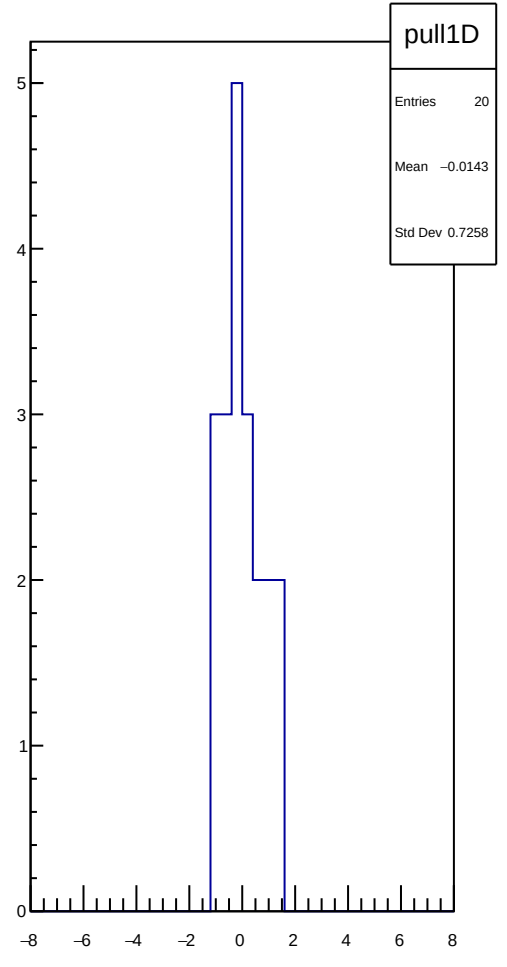

pull1D
Entries 20
Mean 0.1633
Std Dev 0.9933
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

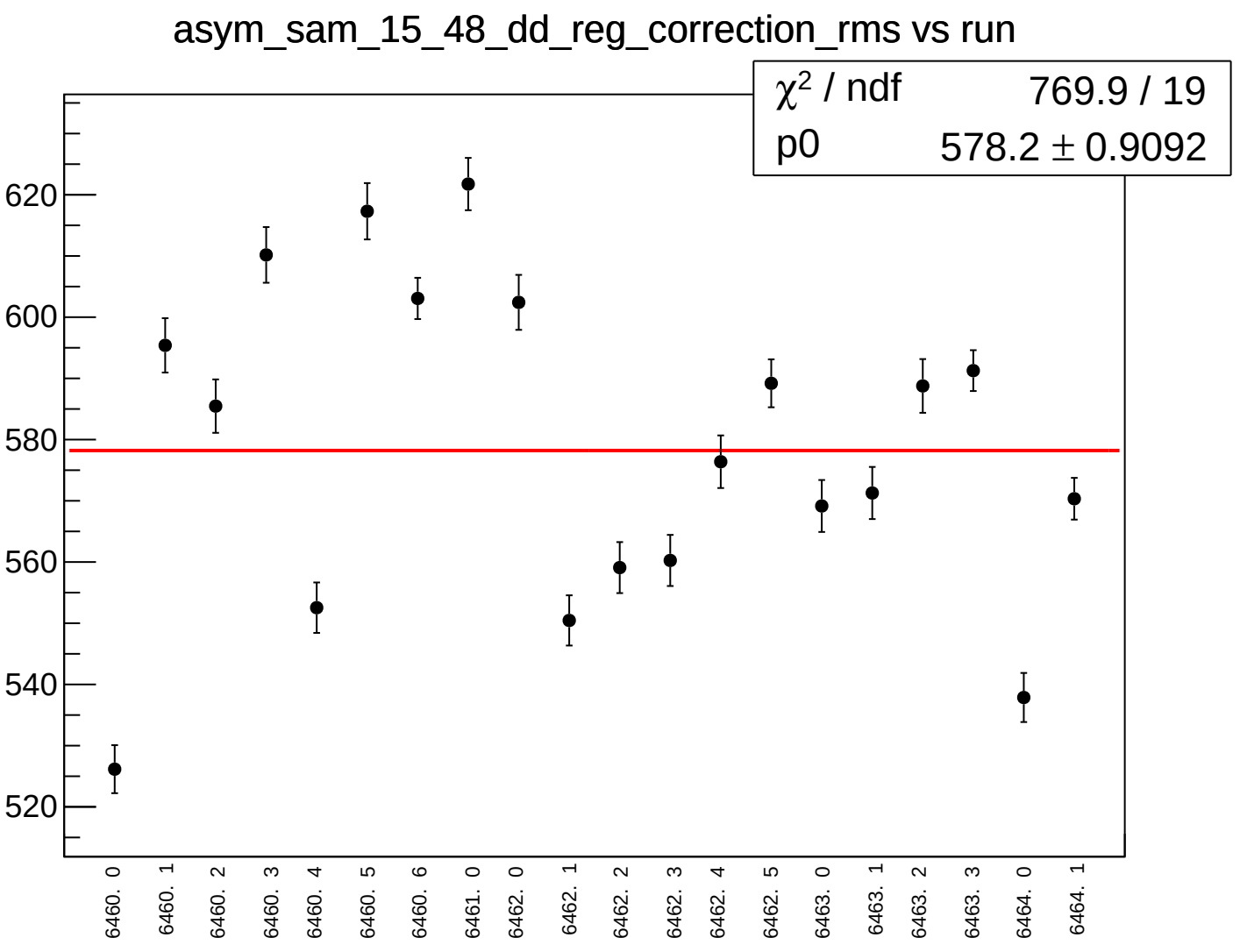

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.323e+05 / 19
p0 1.376e−11 ± 2.633e−14
70
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

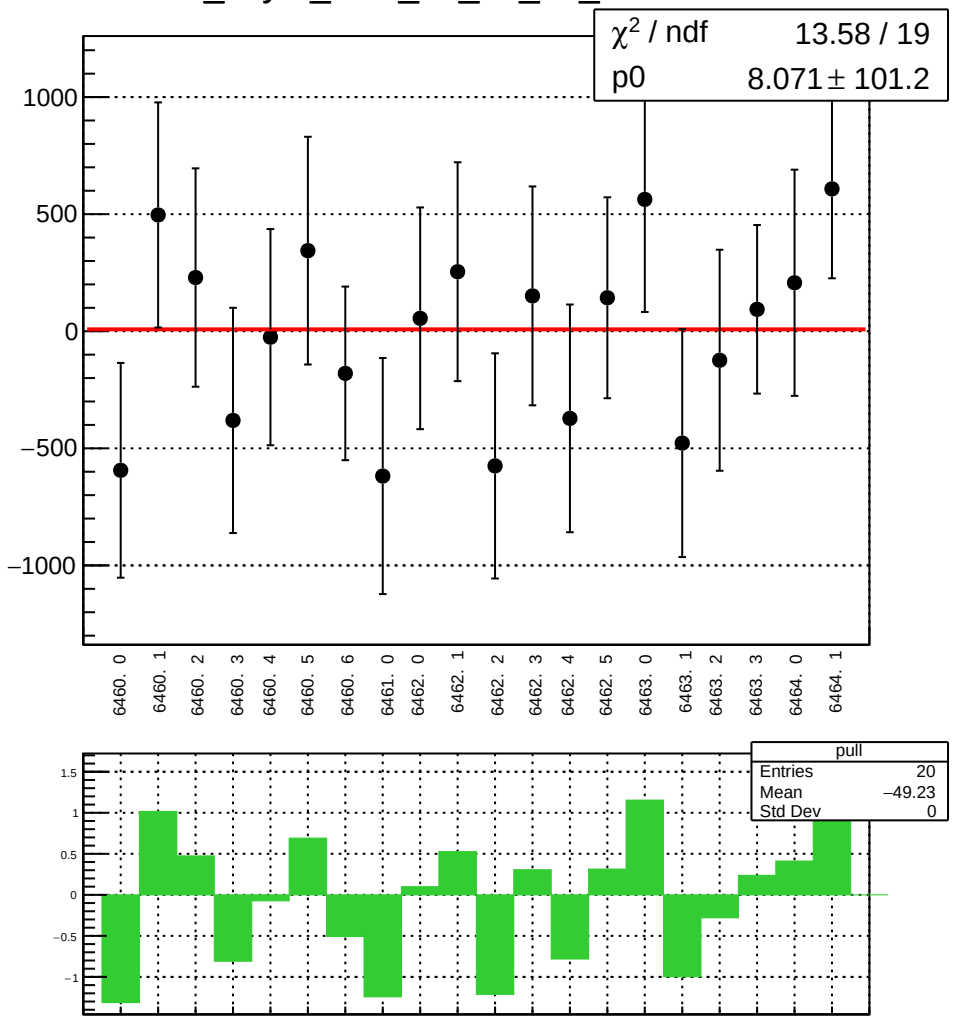

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 13.58 / 19
p0 8.081 ± 101.2
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02058
Std Dev 0.8238
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

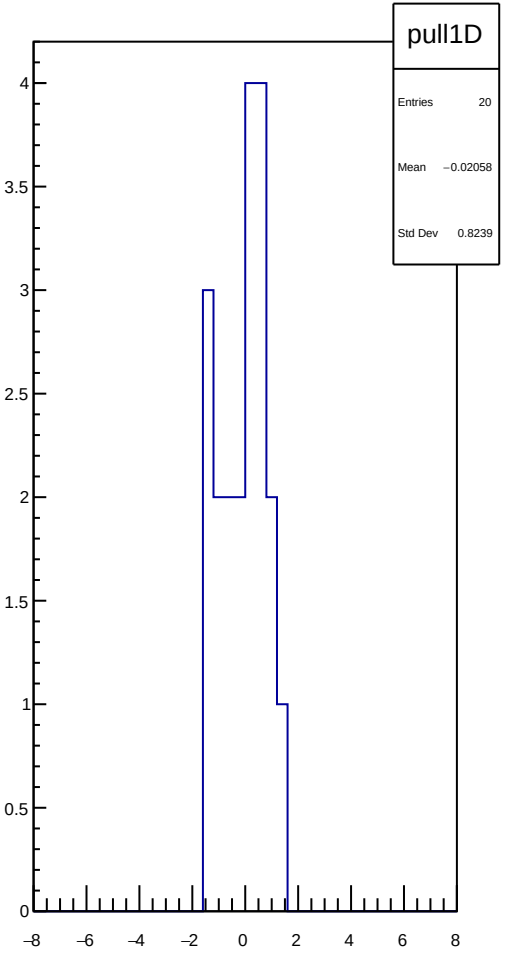

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 474.2 / 19
p0 45.52 ± 0.07156
52
50
48
46
44
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

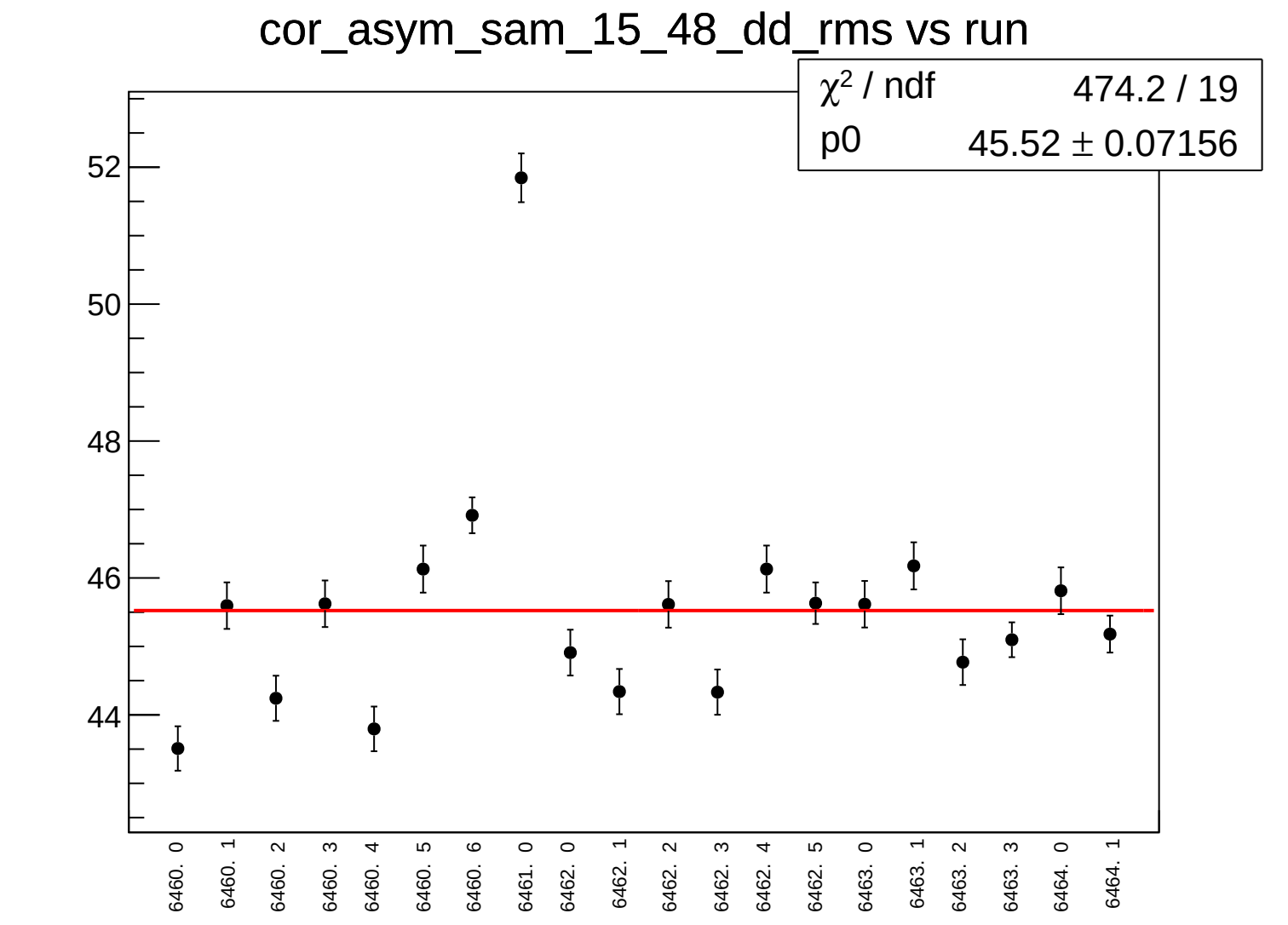

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 10.54 / 19
p0 462 ± 1286
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.54
Std Dev 0
1
0.5
0
−0.5
−1

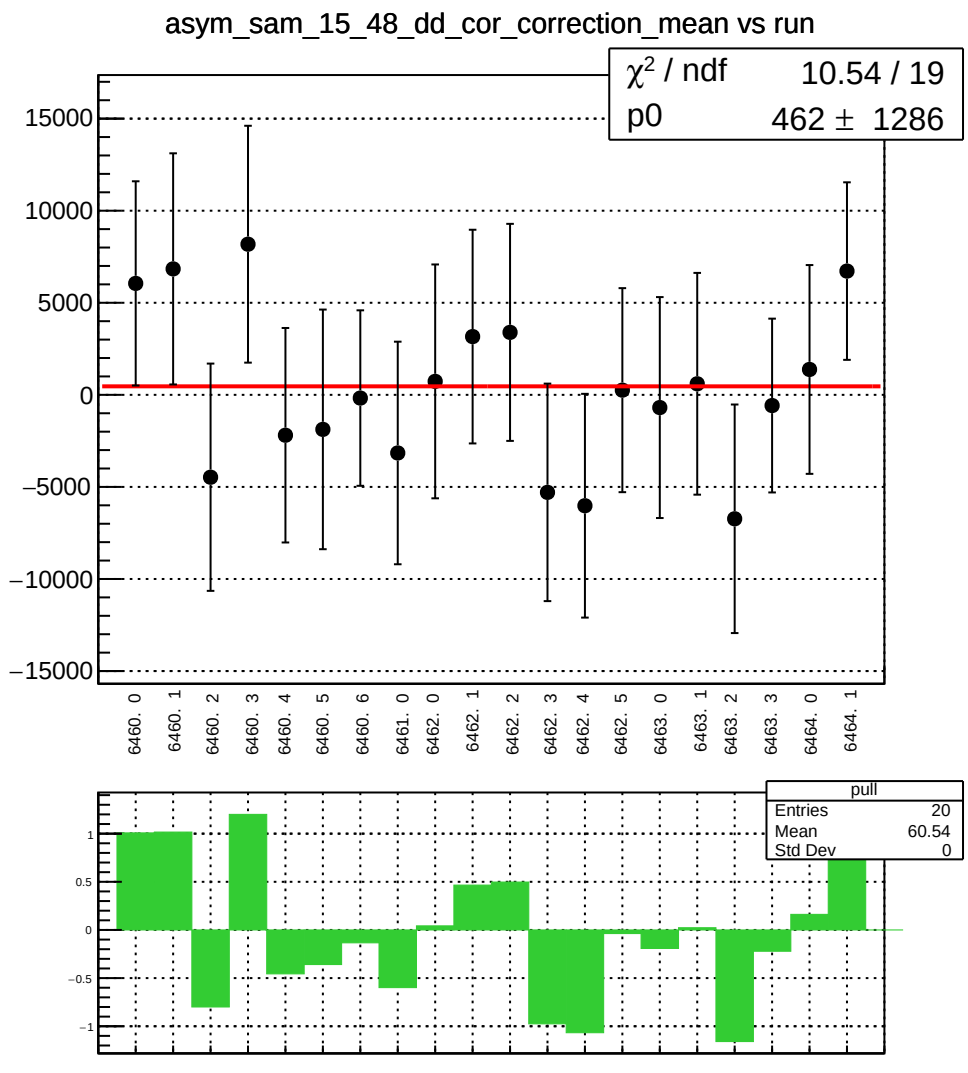

pull1D
Entries 20
Mean −0.0143
Std Dev 0.7258
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

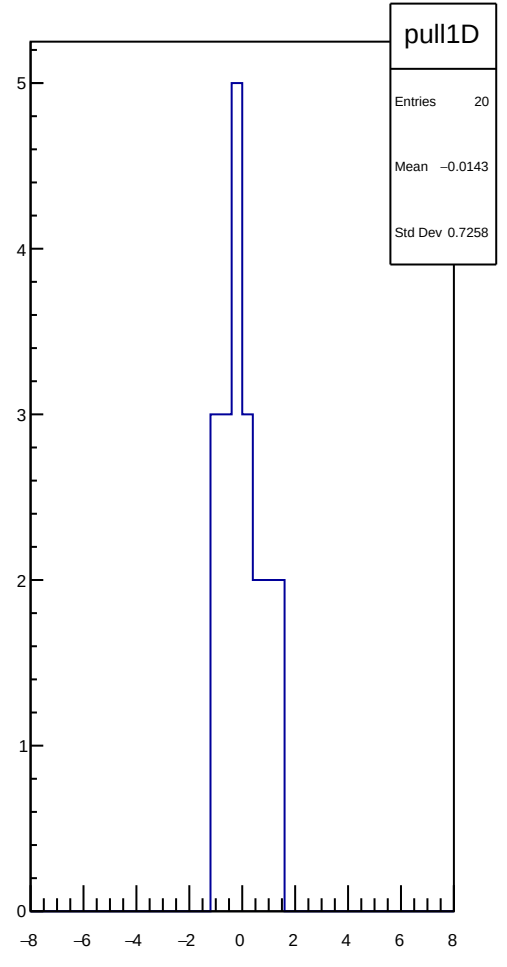

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 769.9 / 19
p0 578.2 ± 0.9092
620
600
580
560
540
520
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

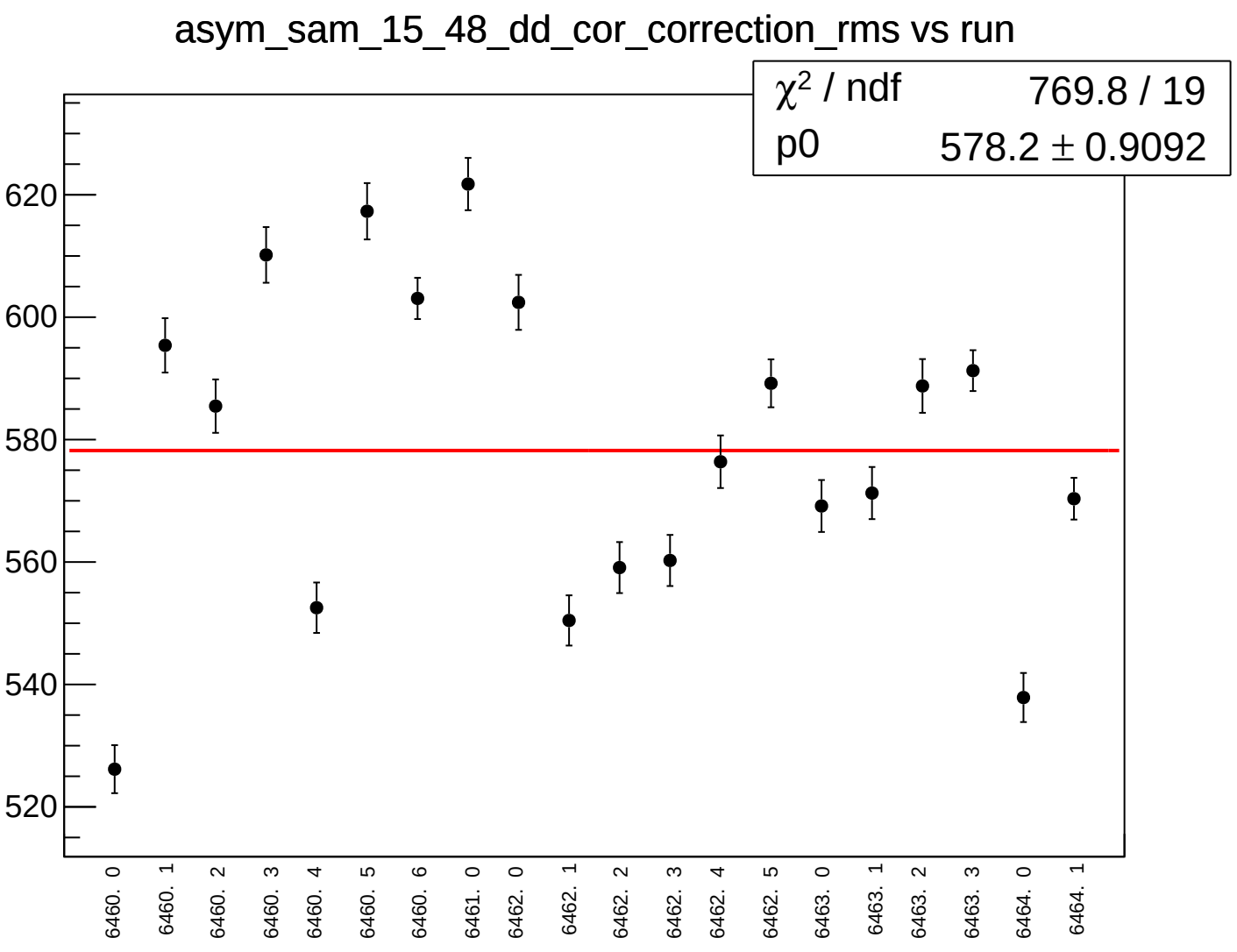

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 13.58 / 19
p0 8.071 ± 101.2
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1

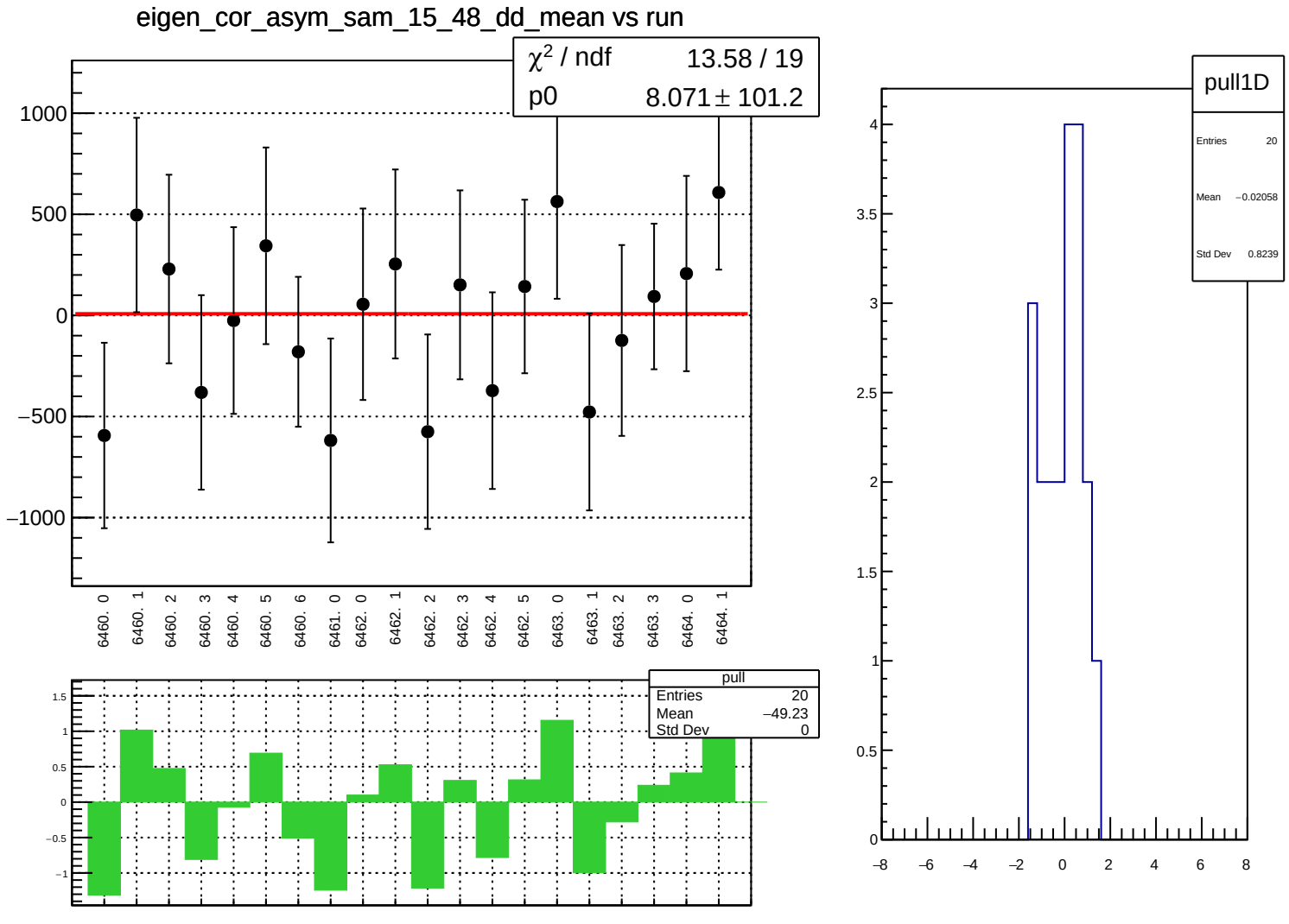

pull1D
Entries 20
Mean −0.02058
Std Dev 0.8239
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

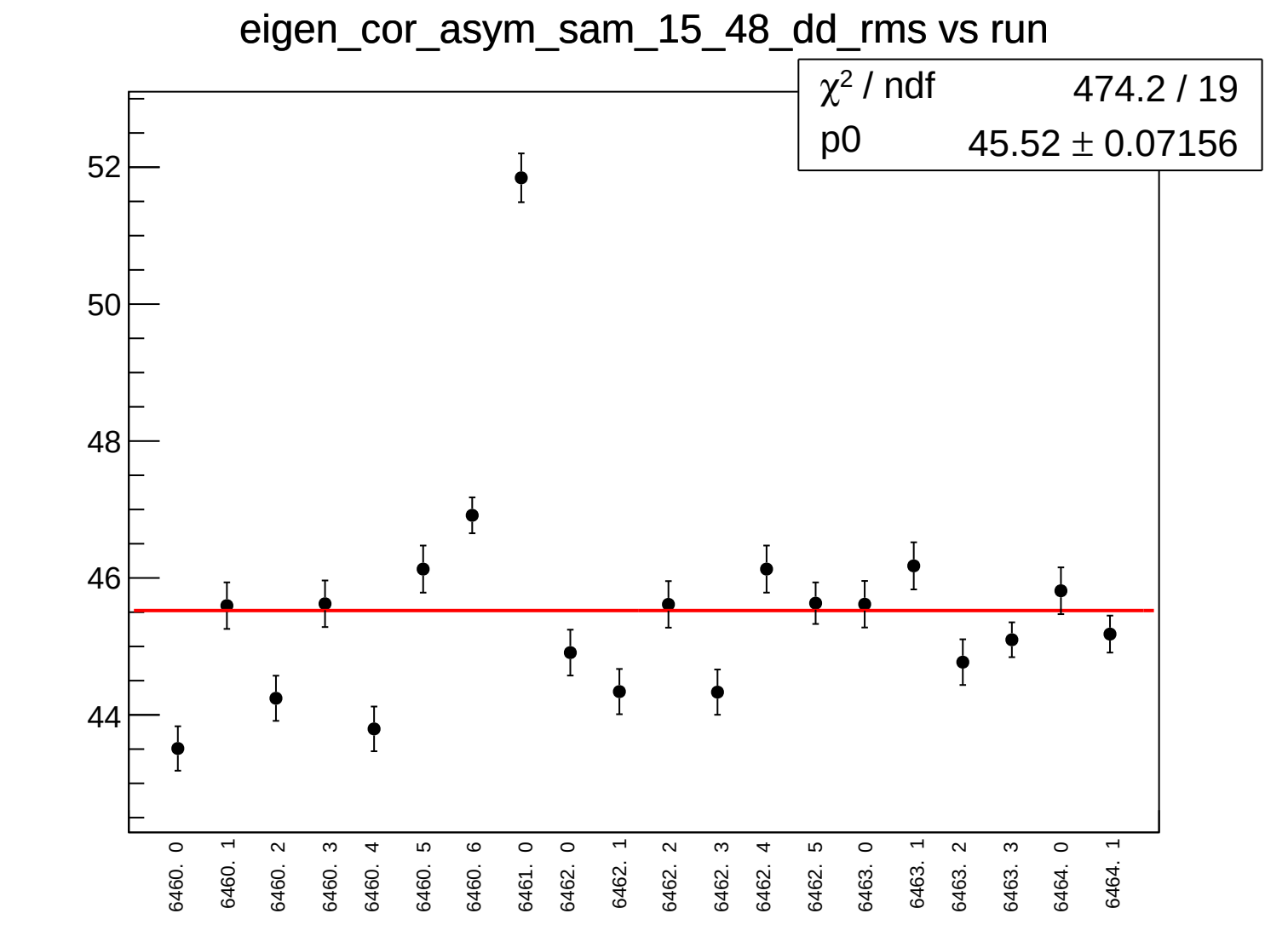

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 474.2 / 19
p0 45.52 ± 0.07156
52
50
48
46
44
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

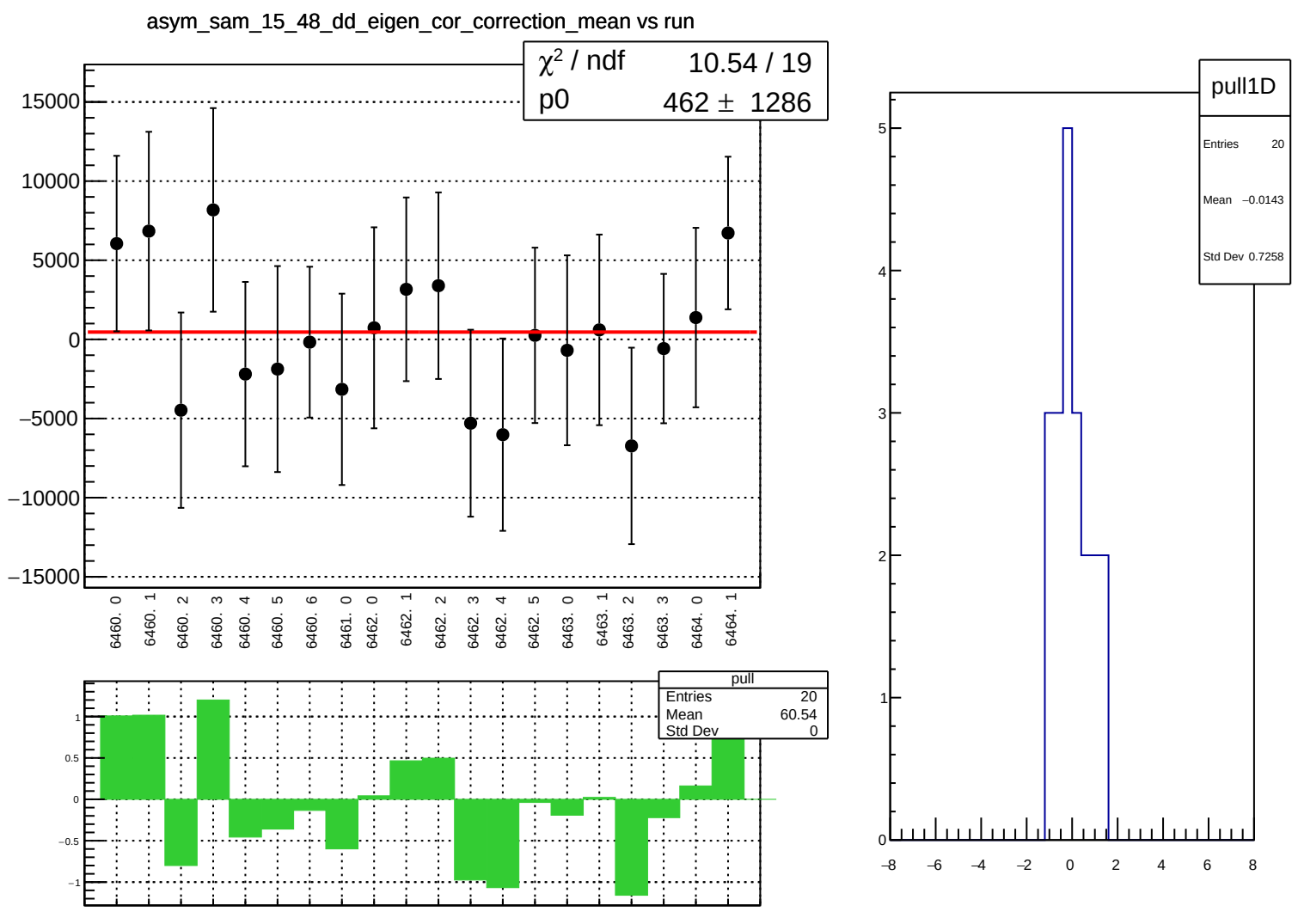

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 10.54 / 19
p0 462 ± 1286
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.54
Std Dev 0
1
0.5
0
−0.5
−1

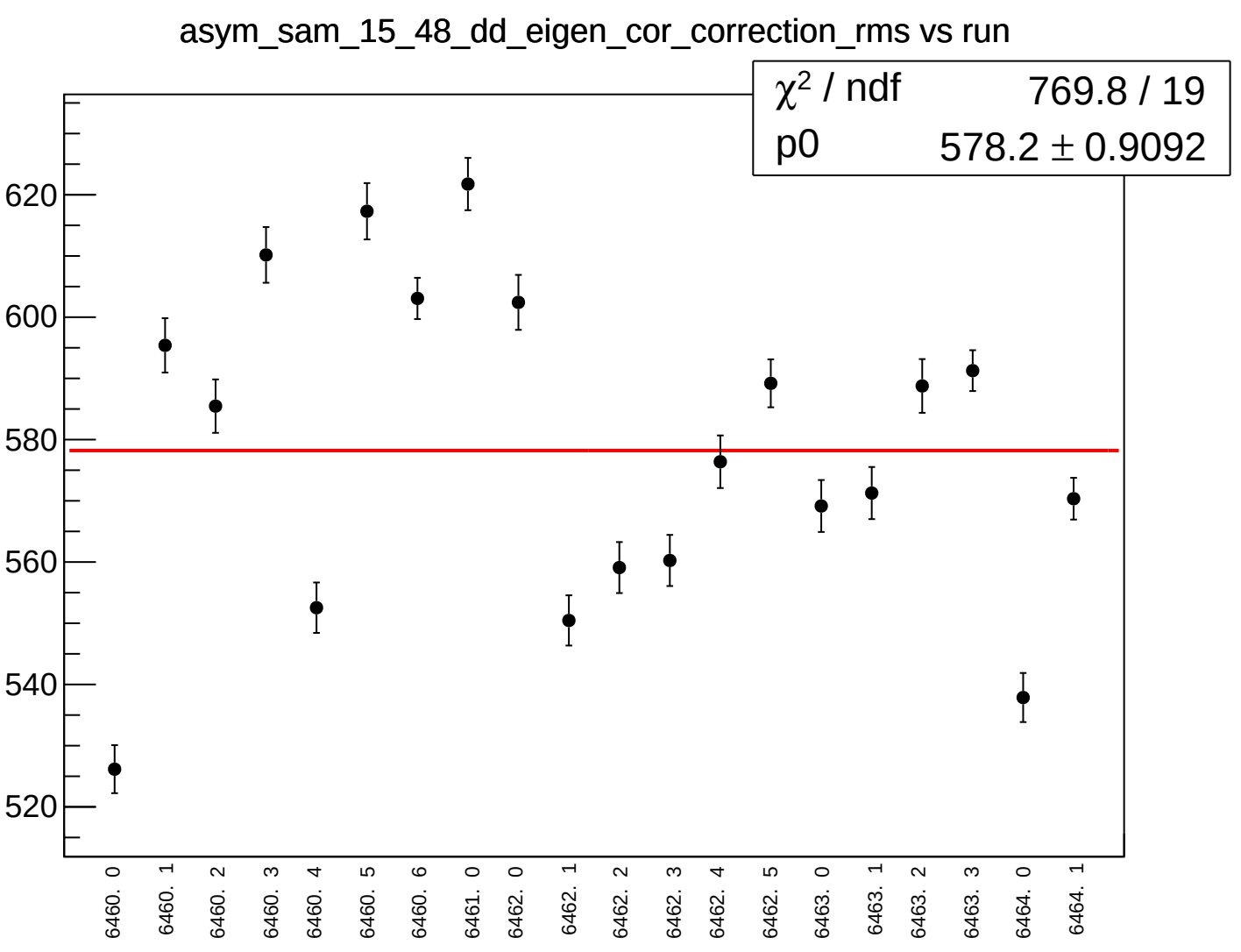

pull1D
Entries 20
Mean −0.0143
Std Dev 0.7258
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

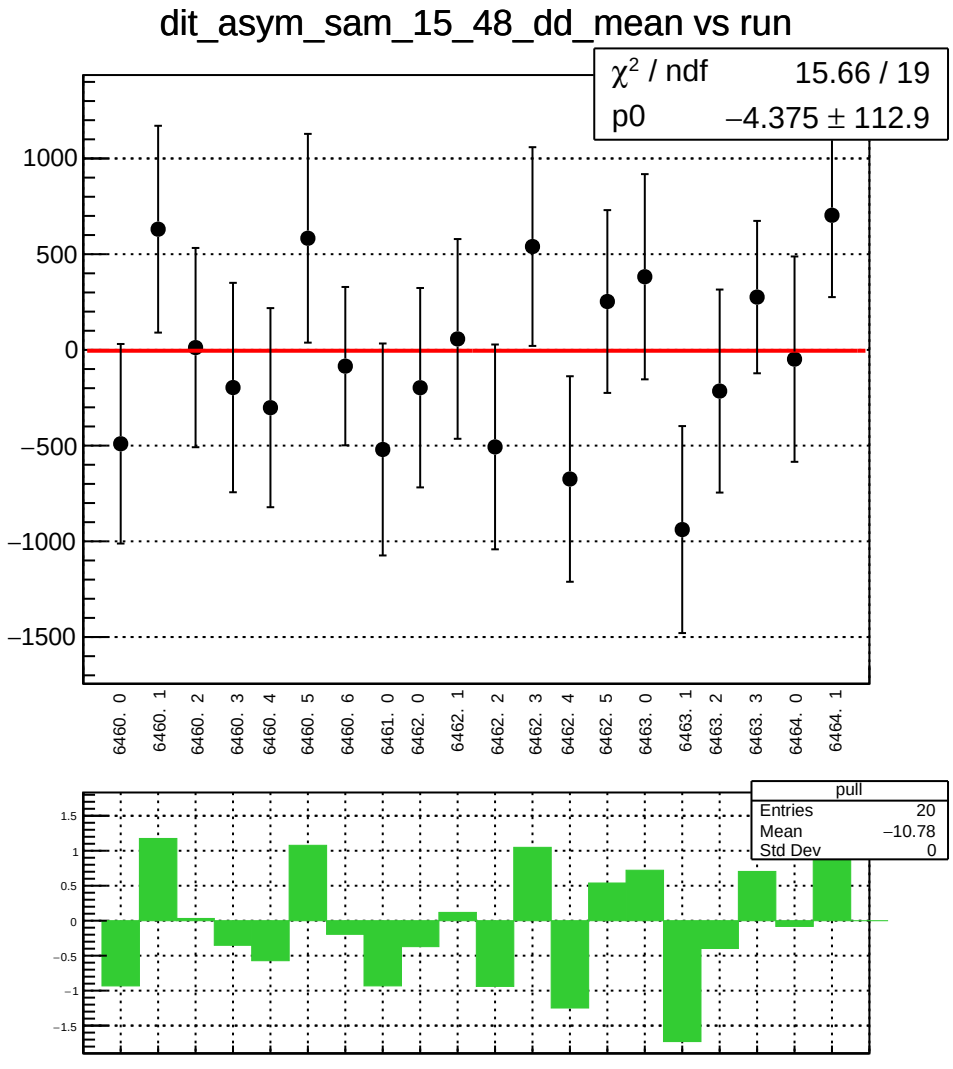

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 769.8 / 19
p0 578.2 ± 0.9092
620
600
580
560
540
520
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

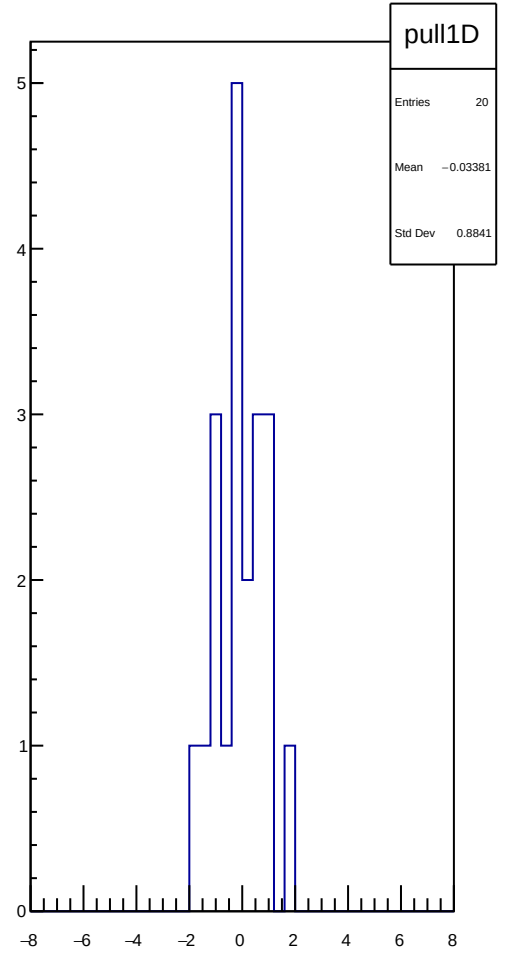

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 13.58 / 19
p0 8.071 ± 101.2
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02058
Std Dev 0.8239
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

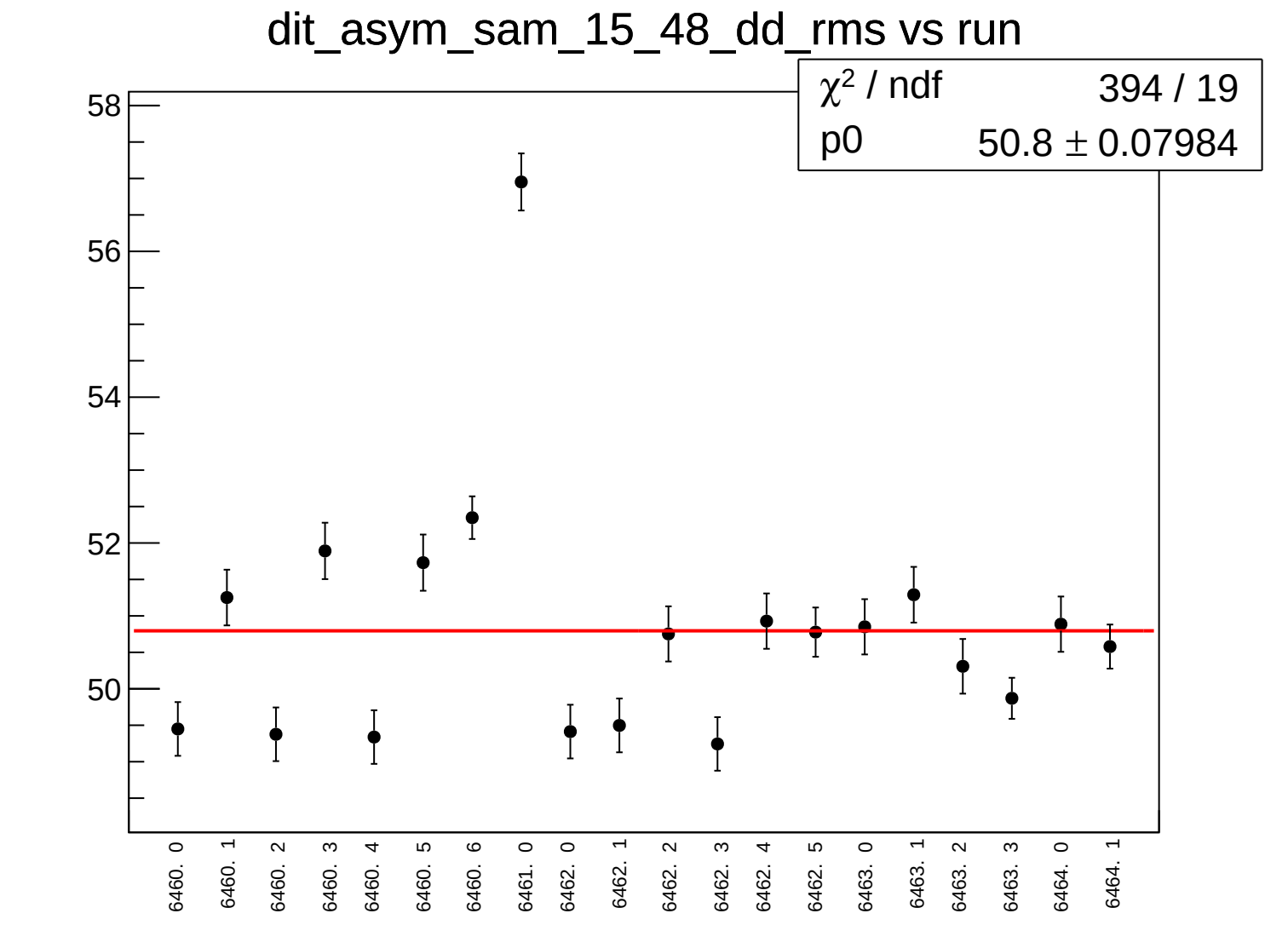

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 474.2 / 19
p0 45.52 ± 0.07156
52
50
48
46
44
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

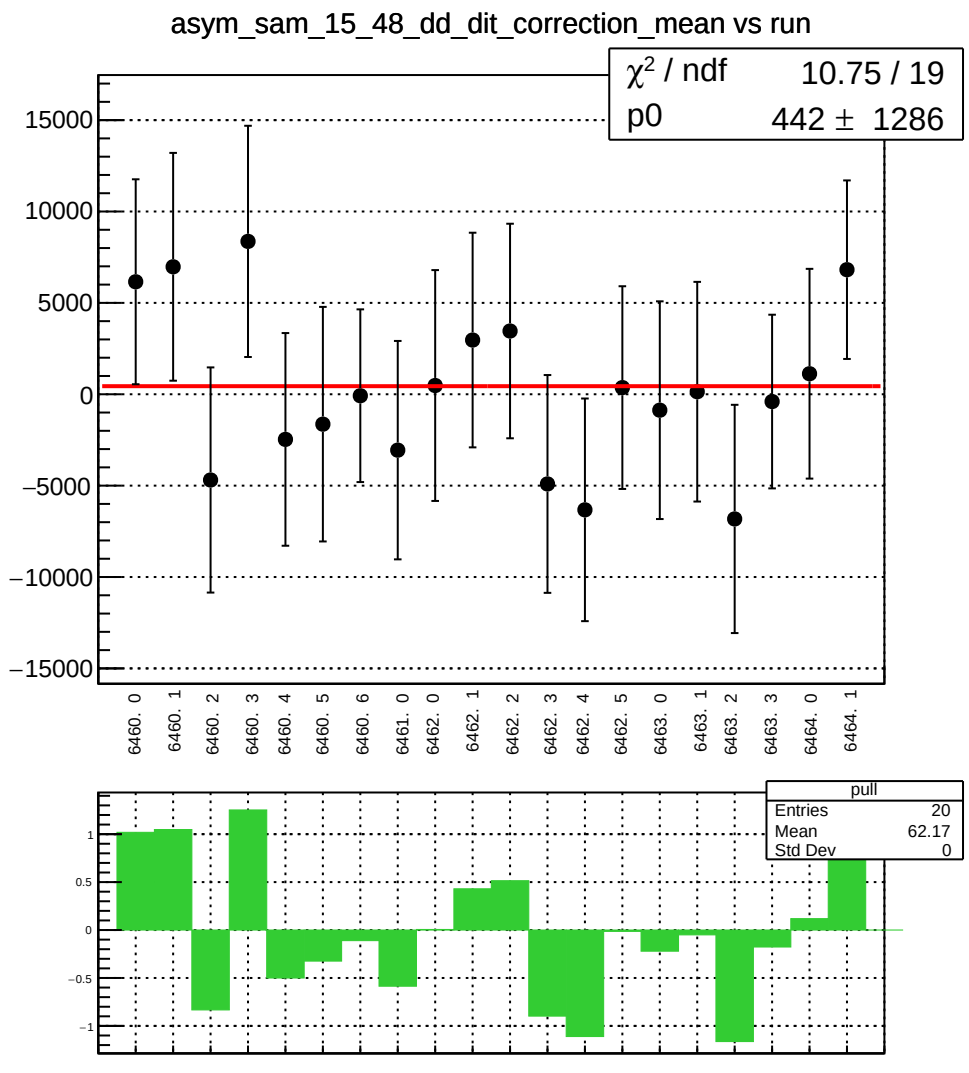

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 10.54 / 19
p0 462 ± 1286
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 60.54
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.0143
Std Dev 0.7258
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

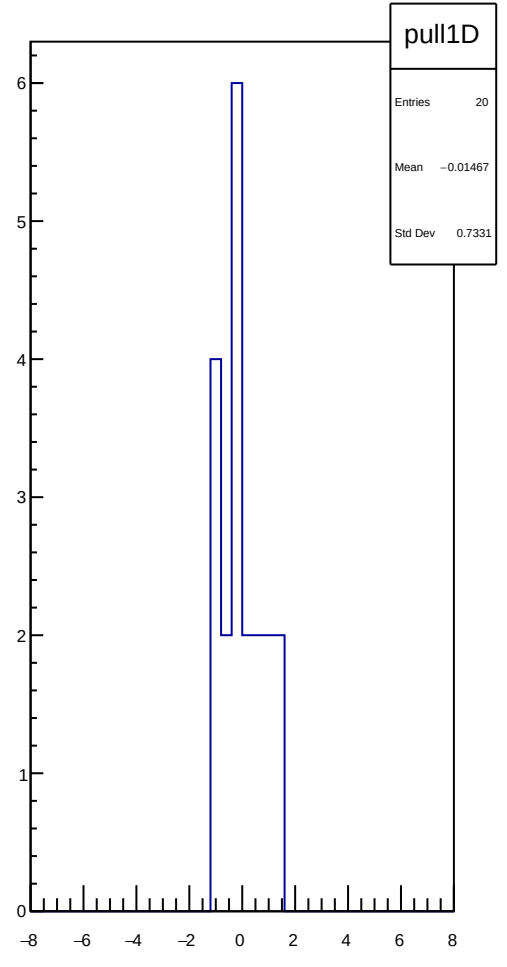

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 769.8 / 19
p0 578.2 ± 0.9092
620
600
580
560
540
520
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

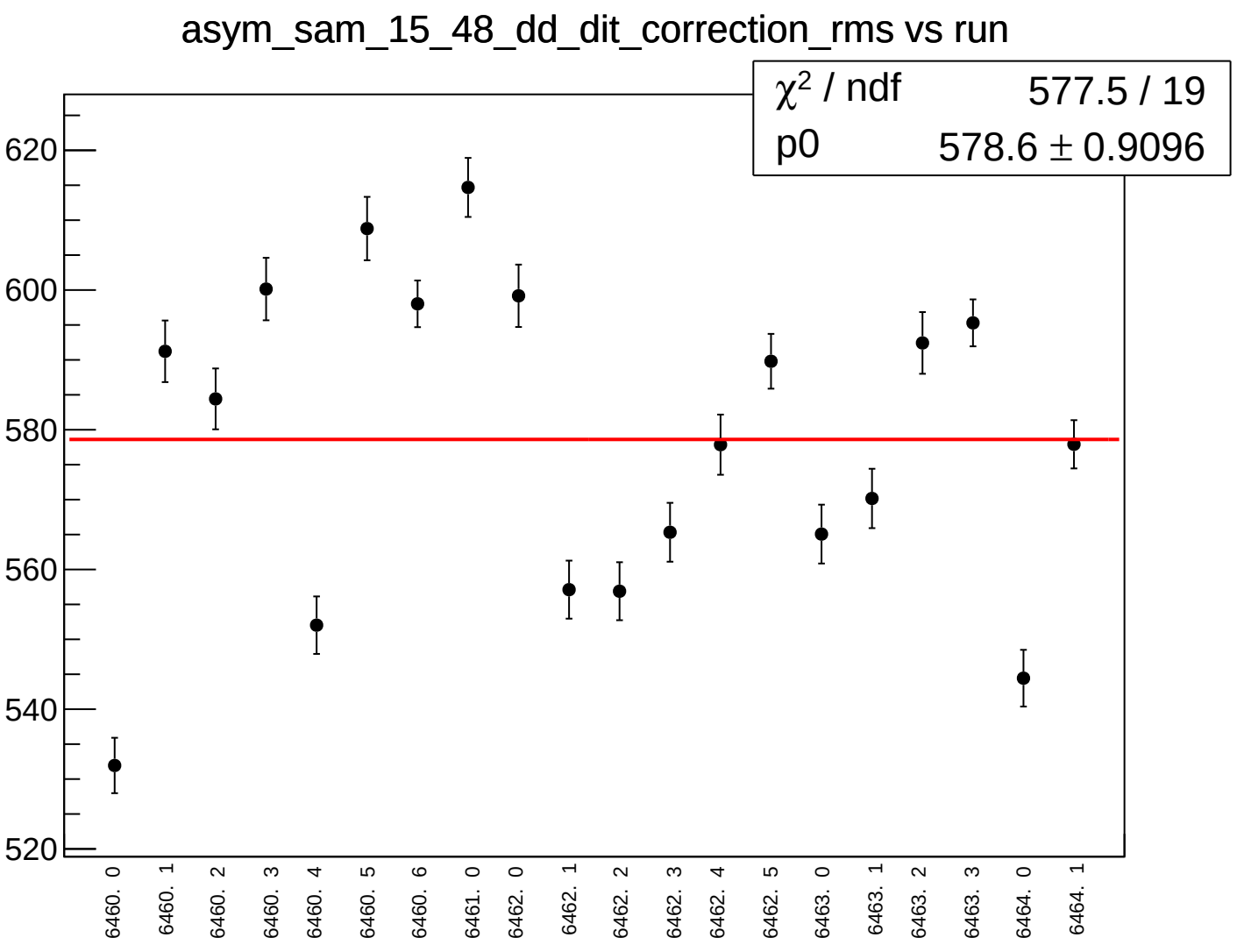

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 15.66 / 19
p0 −4.375 ± 112.9
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −10.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

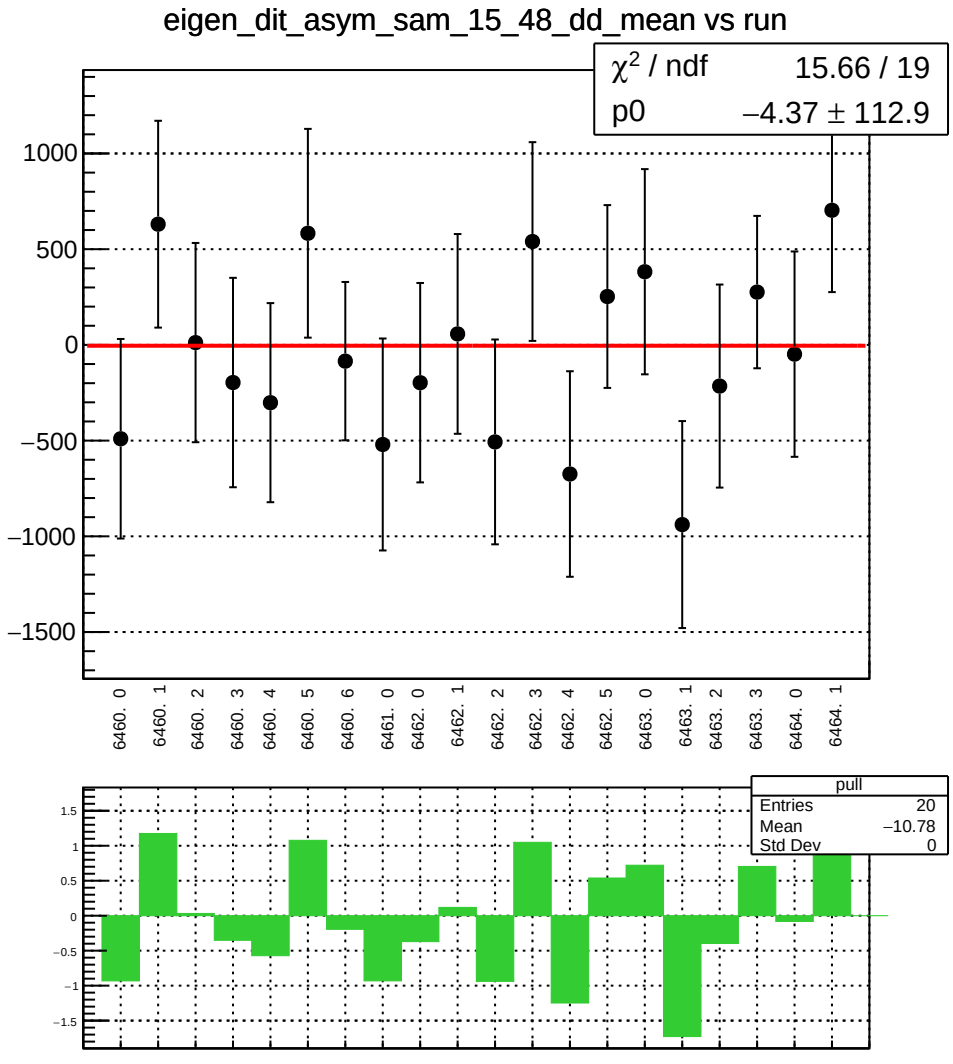

pull1D
Entries 20
Mean −0.03381
Std Dev 0.8841
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

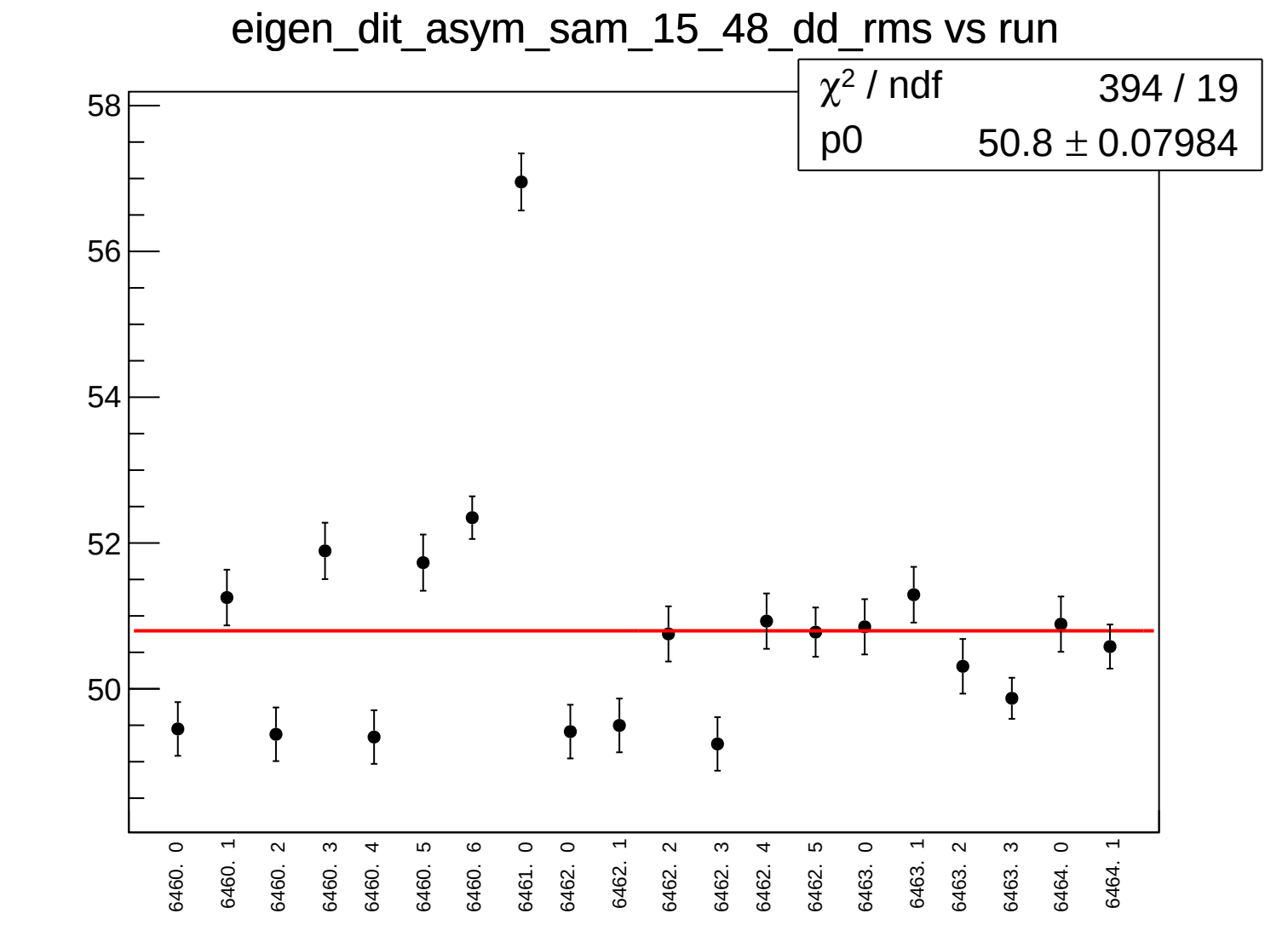

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 394 / 19
p0 50.8 ± 0.07984
58
56
54
52
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

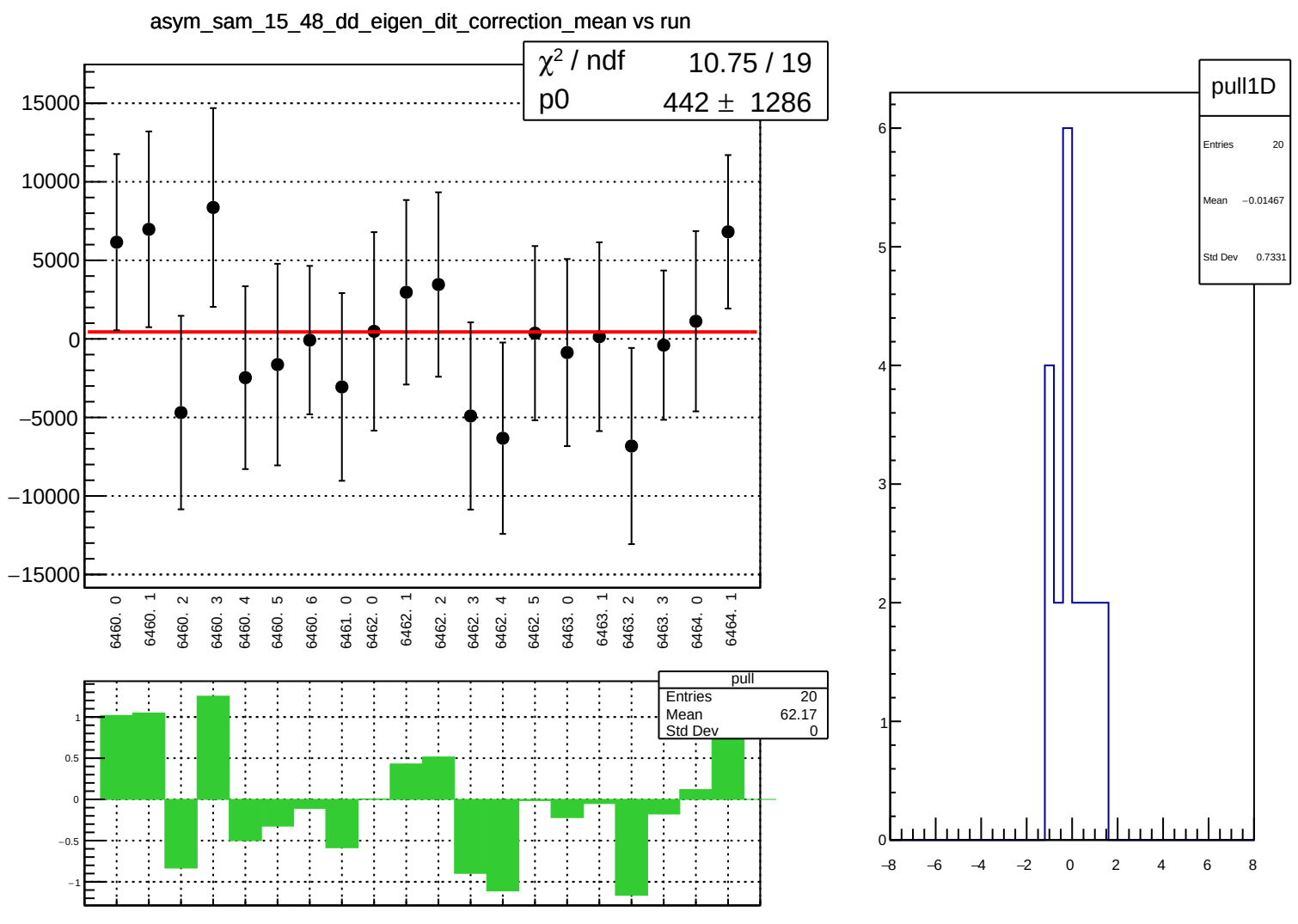

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 10.75 / 19
p0 442 ± 1286
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.17
Std Dev 0
1
0.5
0
−0.5
−1

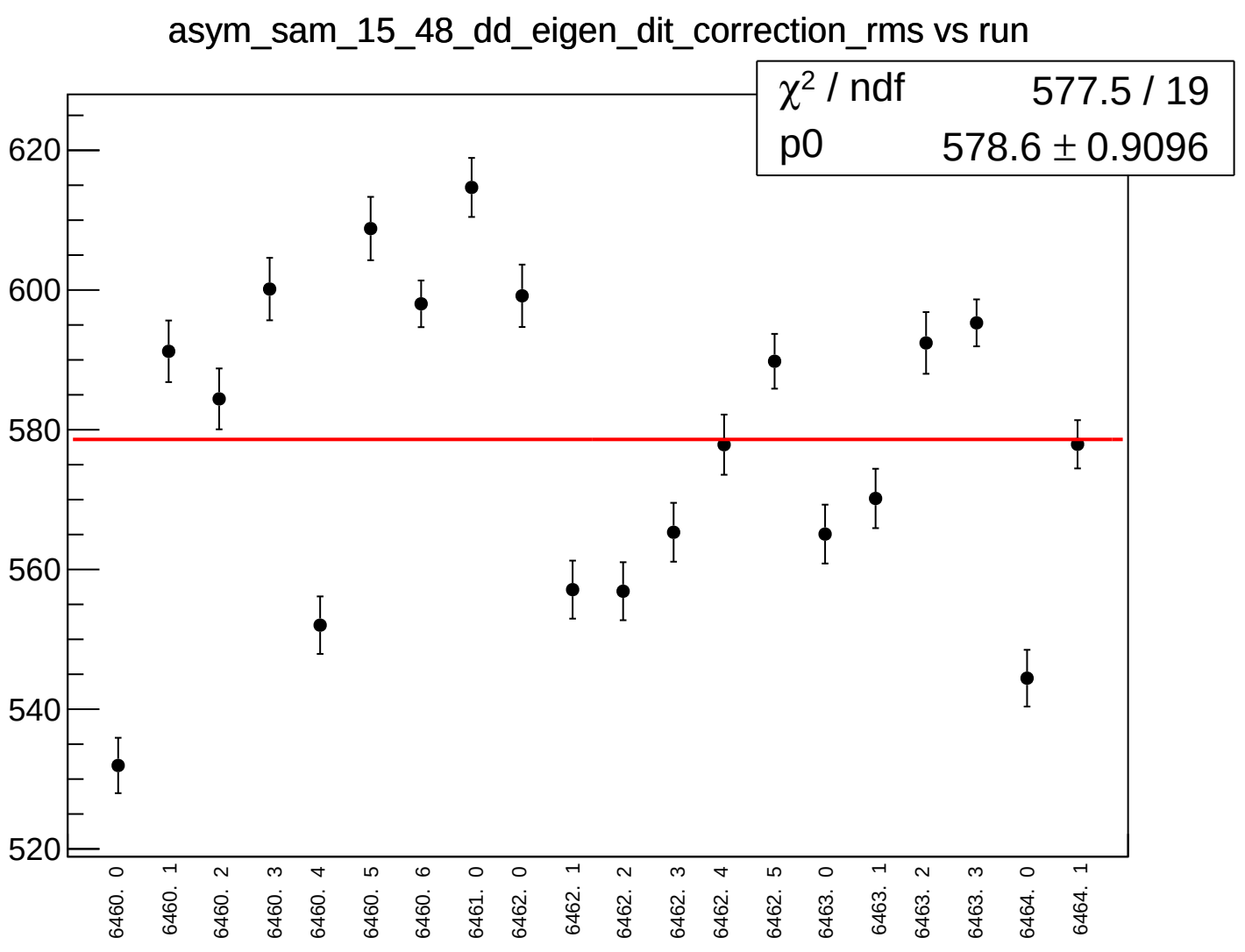

pull1D
Entries 20
Mean −0.01467
Std Dev 0.7331
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

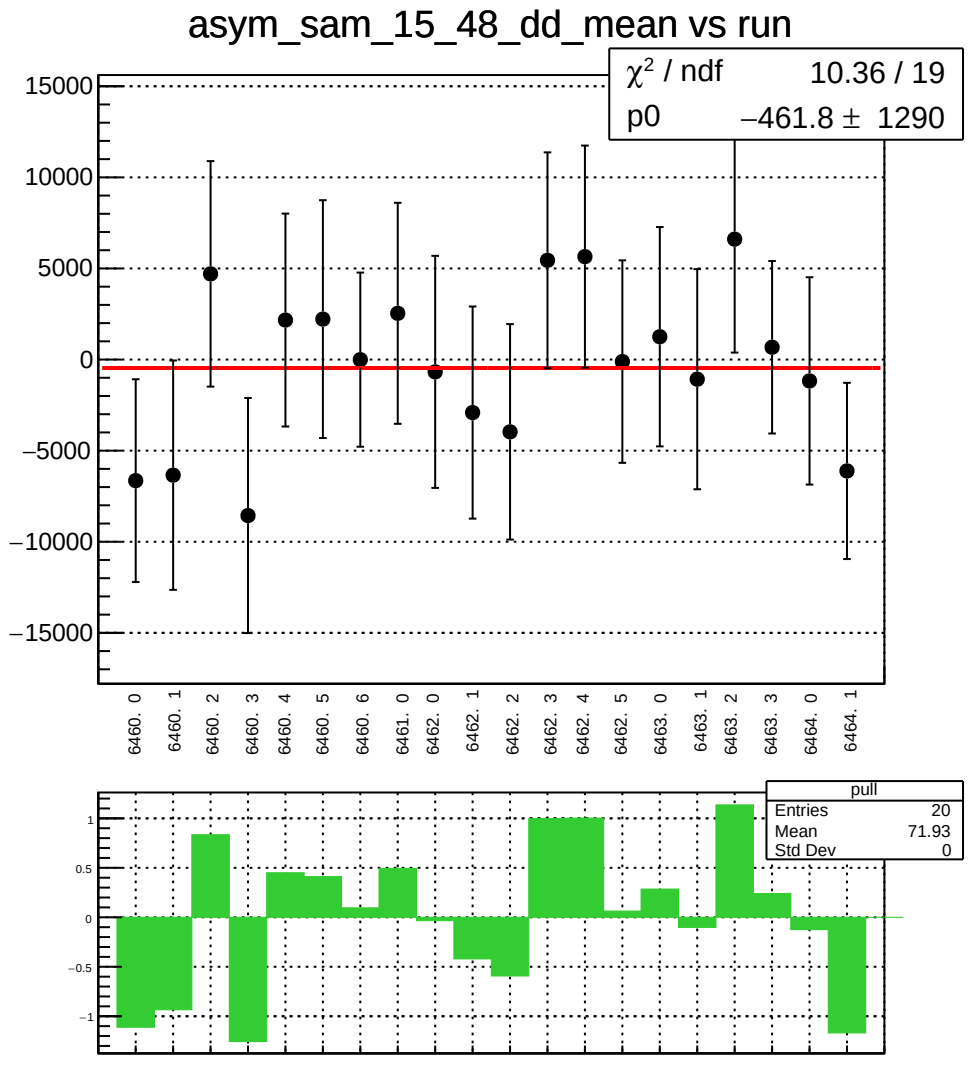

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 577.5 / 19
p0 578.6 ± 0.9096
620
600
580
560
540
520
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

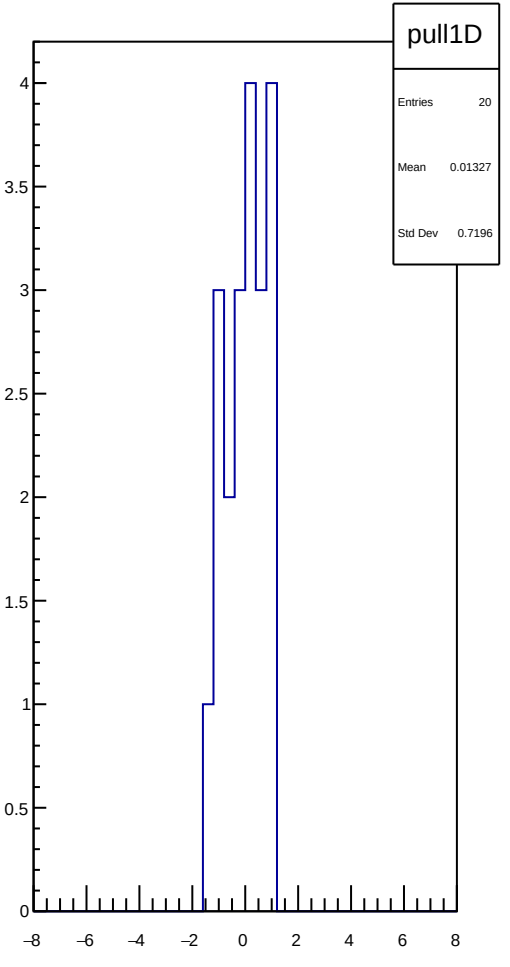

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 15.66 / 19
p0 −4.37 ± 112.9
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −10.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03381
Std Dev 0.8841
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

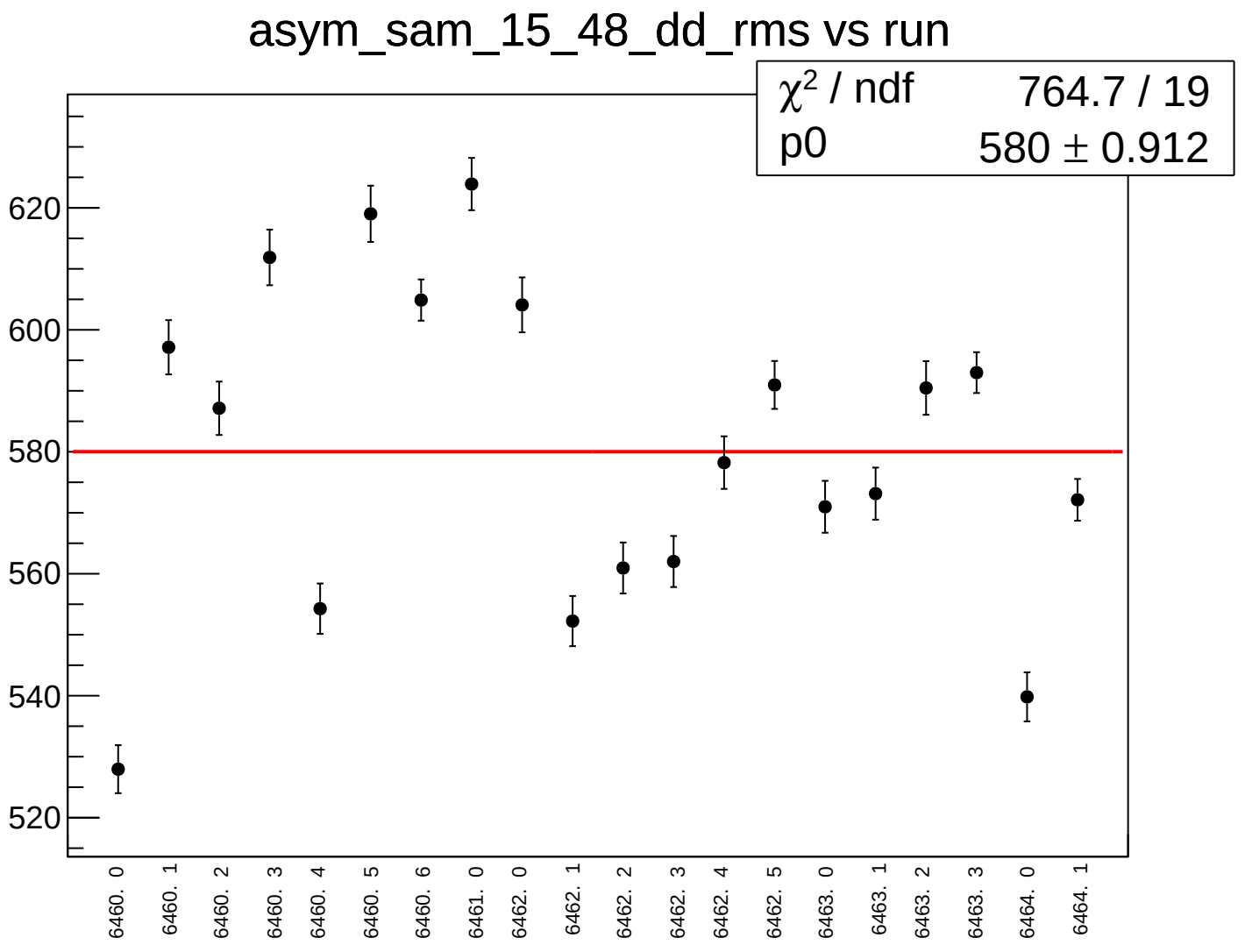

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 394 / 19
p0 50.8 ± 0.07984
58
56
54
52
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

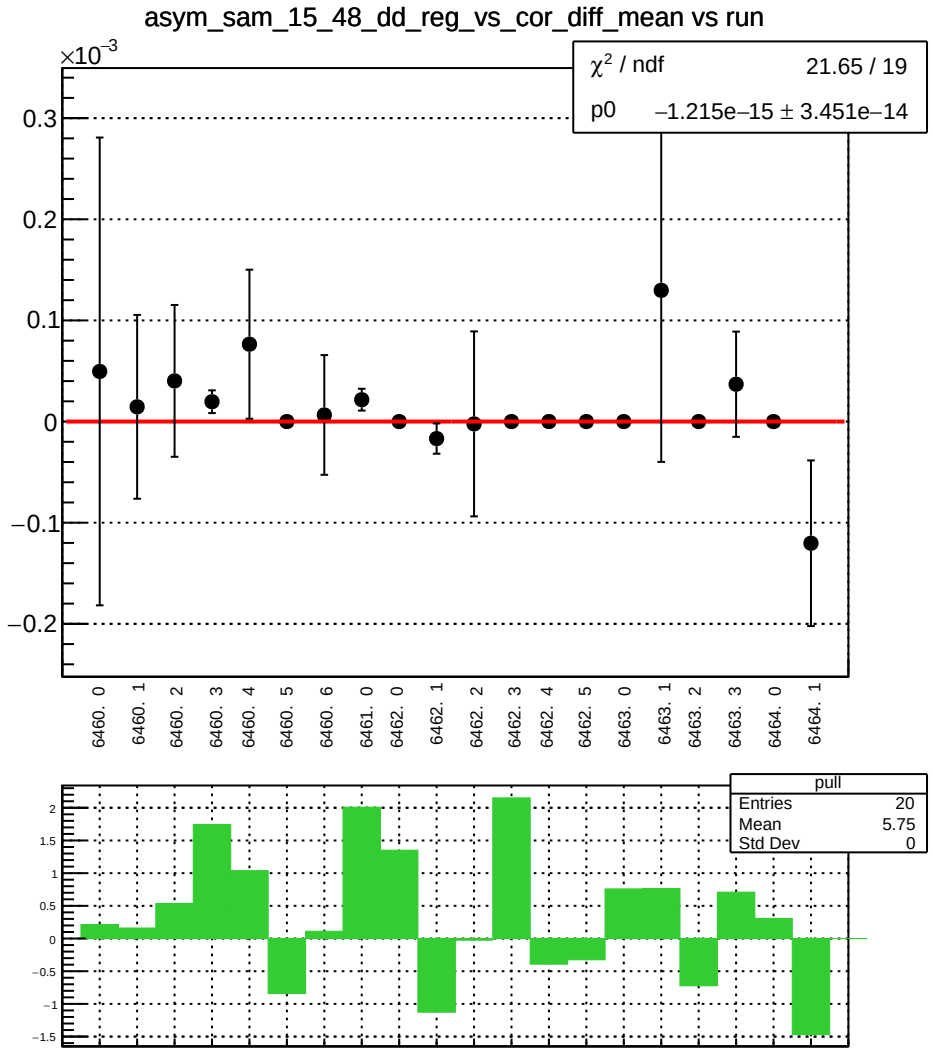

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 10.75 / 19
p0 442 ± 1286
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.17
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01467
Std Dev 0.7331
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

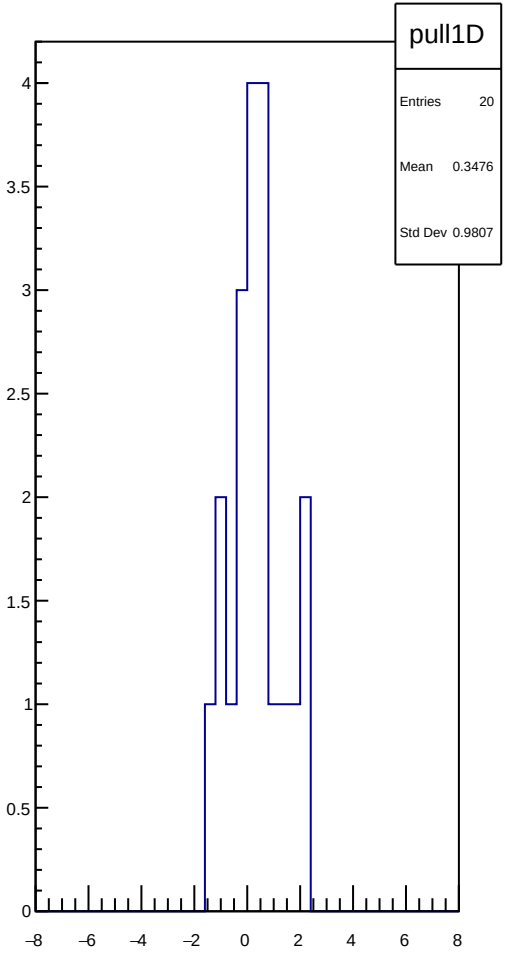

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 577.5 / 19
p0 578.6 ± 0.9096
620
600
580
560
540
520
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

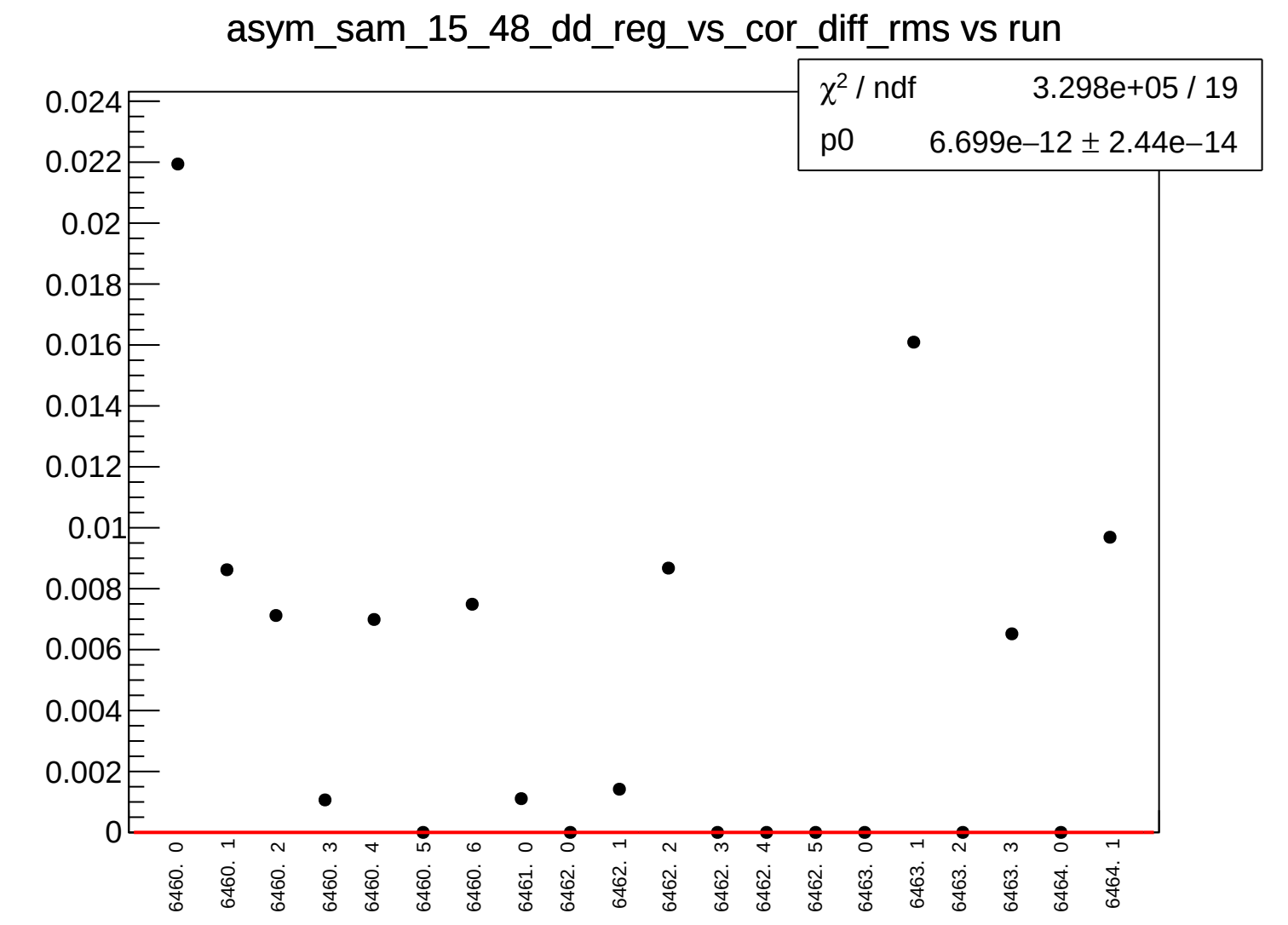

asym_sam_15_48_dd_mean vs run
χ² / ndf 10.36 / 19
p0 −461.8 ± 1290
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 71.93
Std Dev 0
1
0.5
0
−0.5
−1

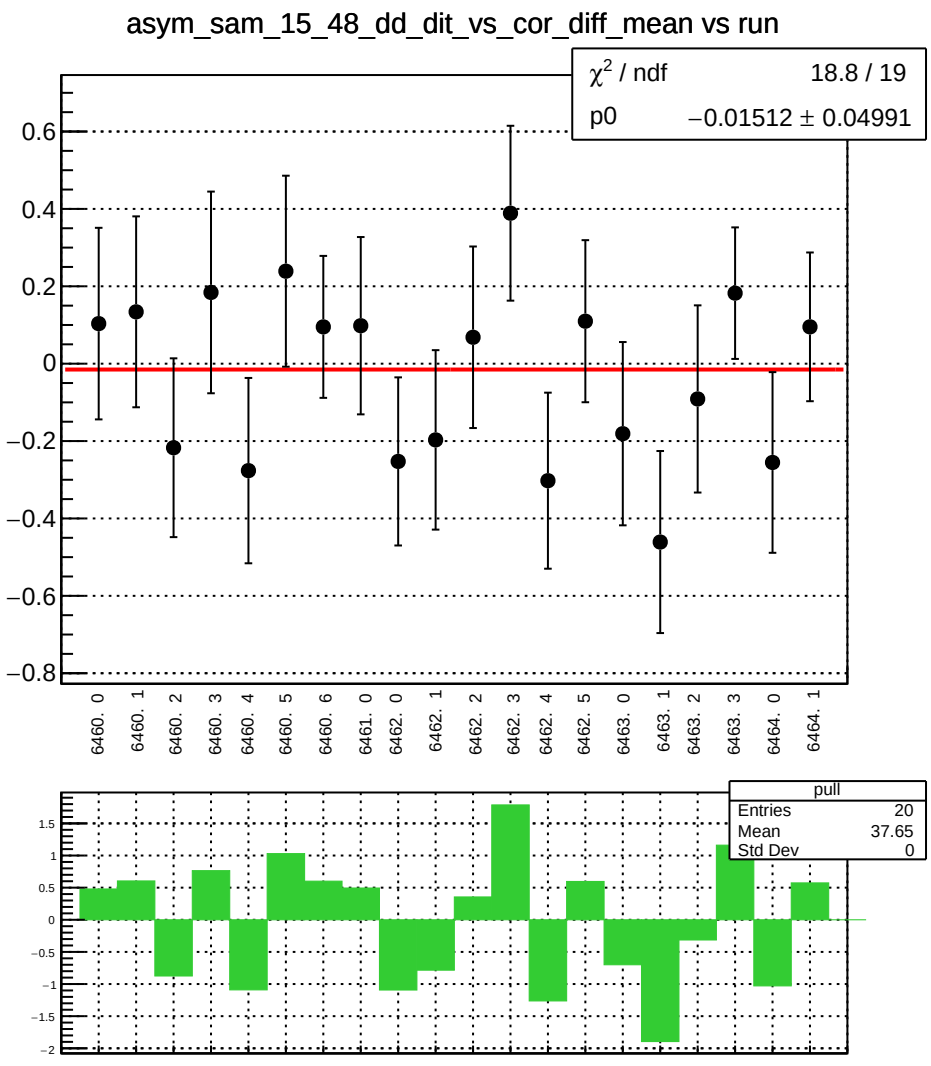

pull1D
Entries 20
Mean 0.01327
Std Dev 0.7196
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

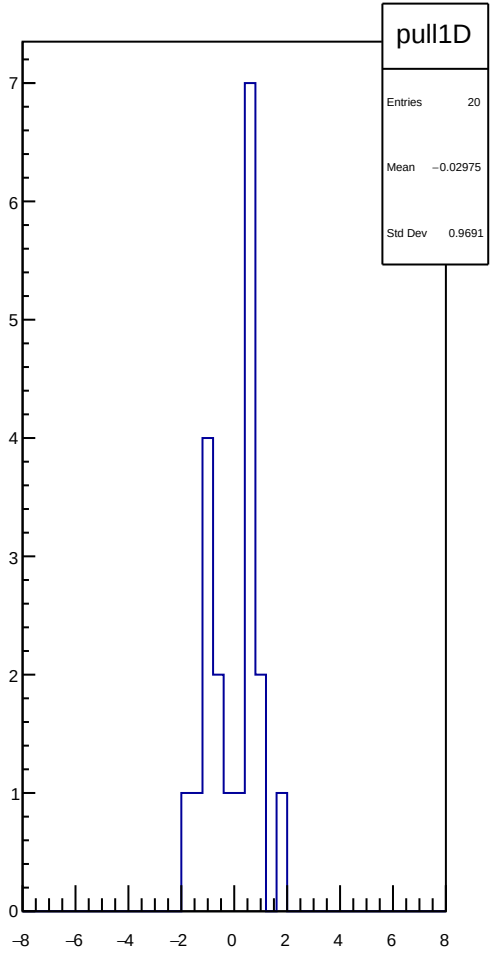

asym_sam_15_48_dd_rms vs run
χ² / ndf 764.7 / 19
p0 580 ± 0.912
620
600
580
560
540
520
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

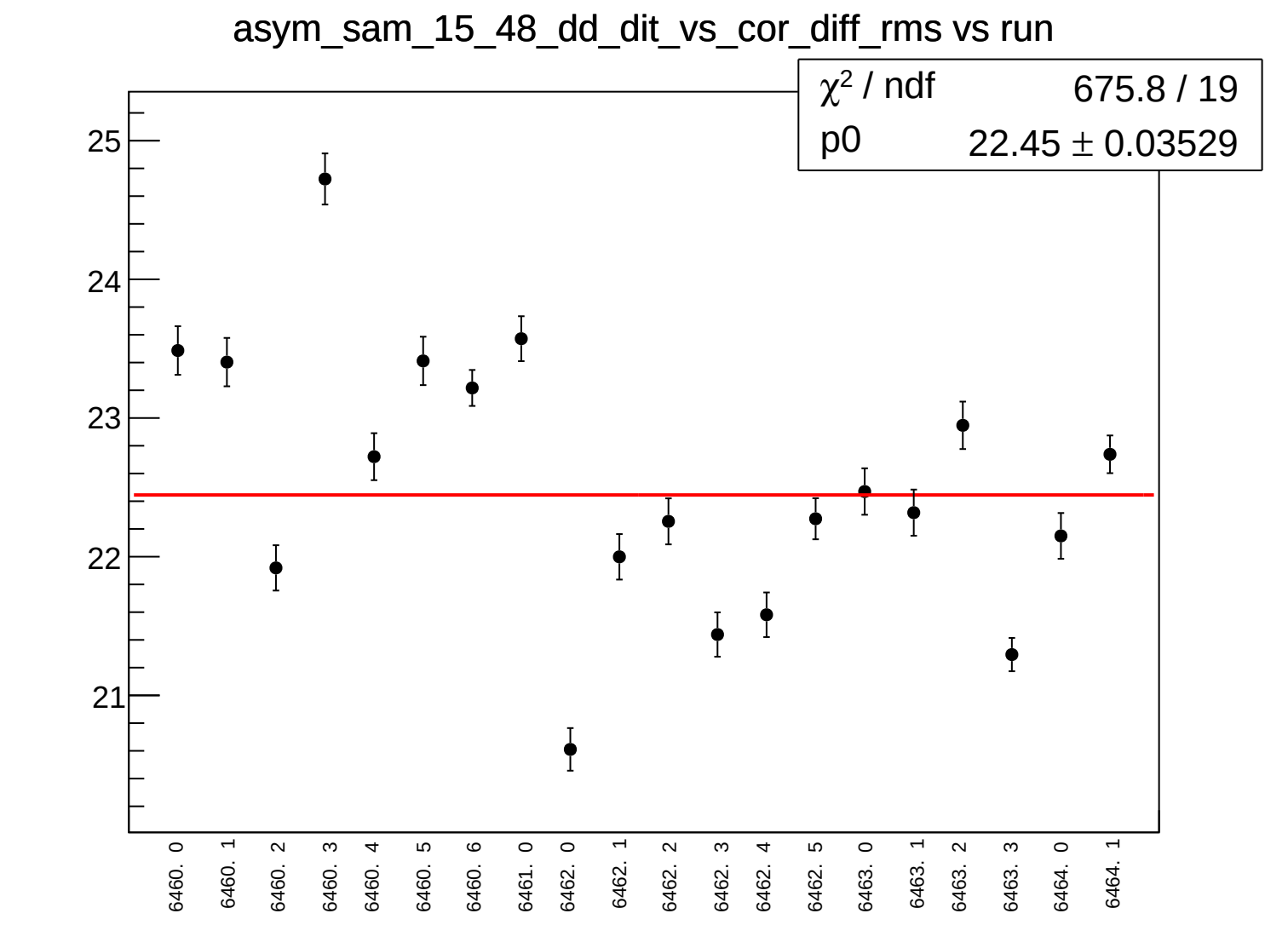

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 21.65 / 19
p0 −1.215e−15 ± 3.451e−14
0.3
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

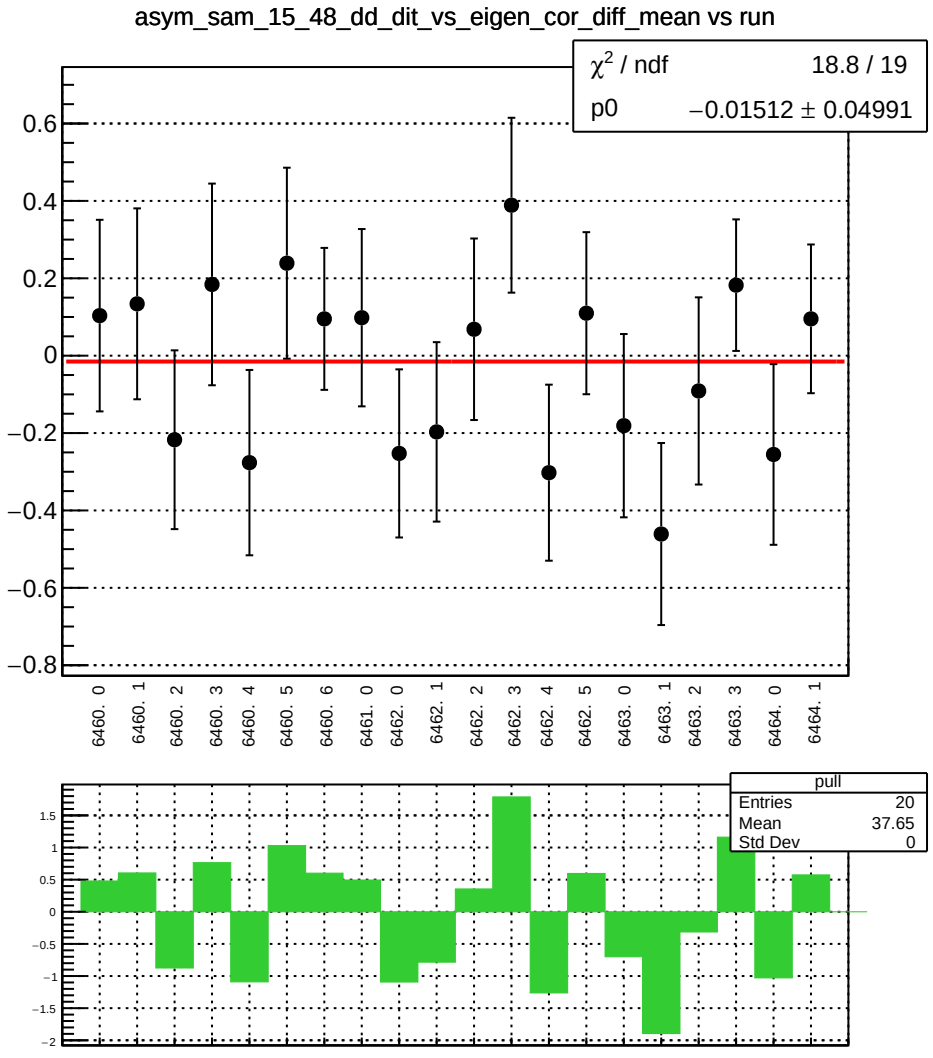

pull1D
Entries 20
Mean 0.3476
Std Dev 0.9807
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

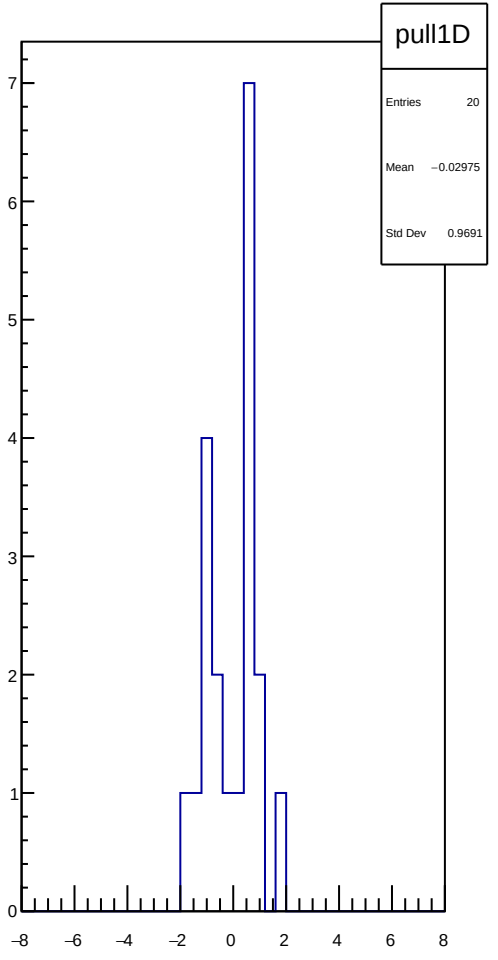

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.298e+05 / 19
p0 6.699e−12 ± 2.44e−14
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

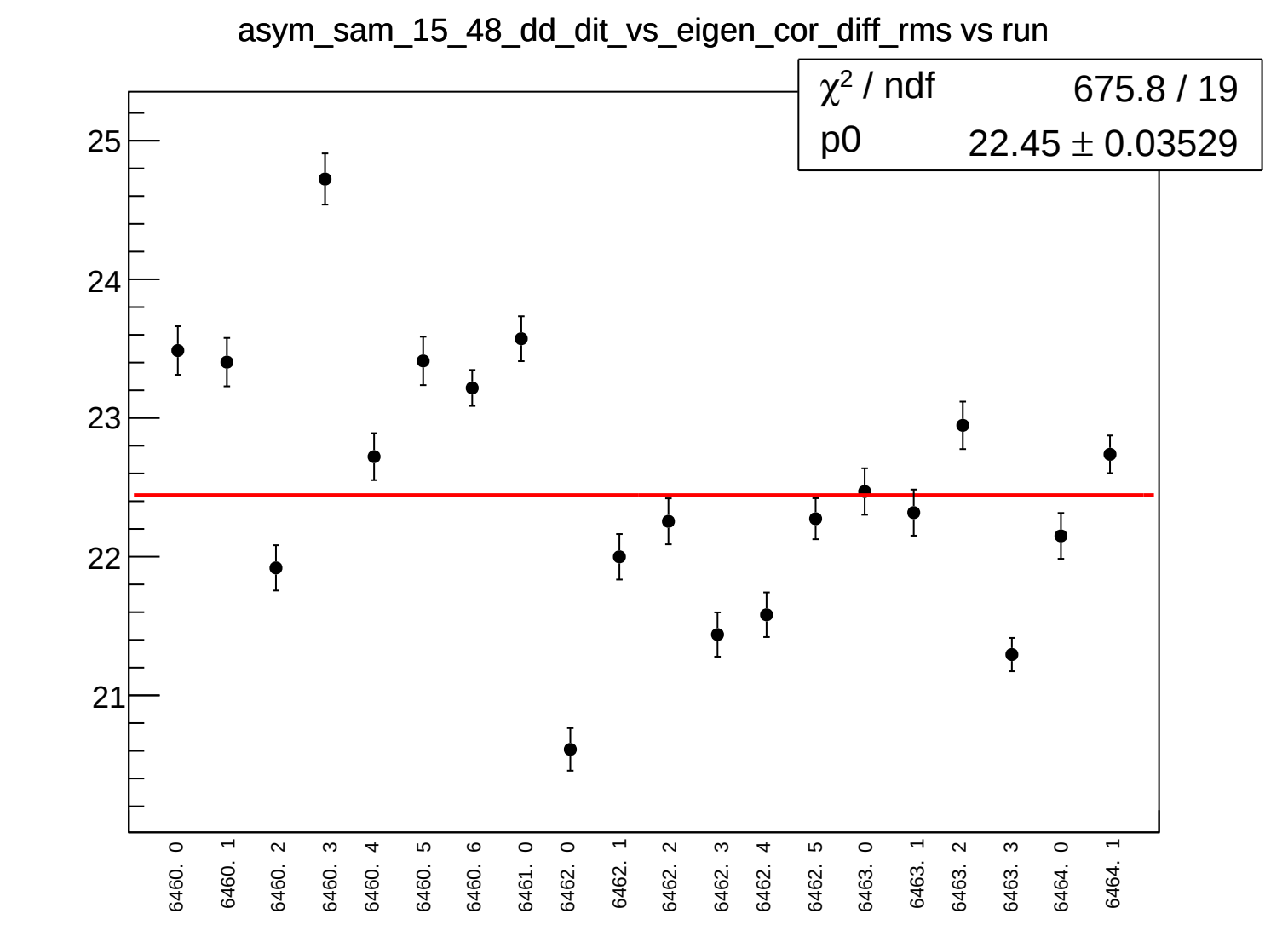

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 18.8 / 19
p0 −0.01512 ± 0.04991
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

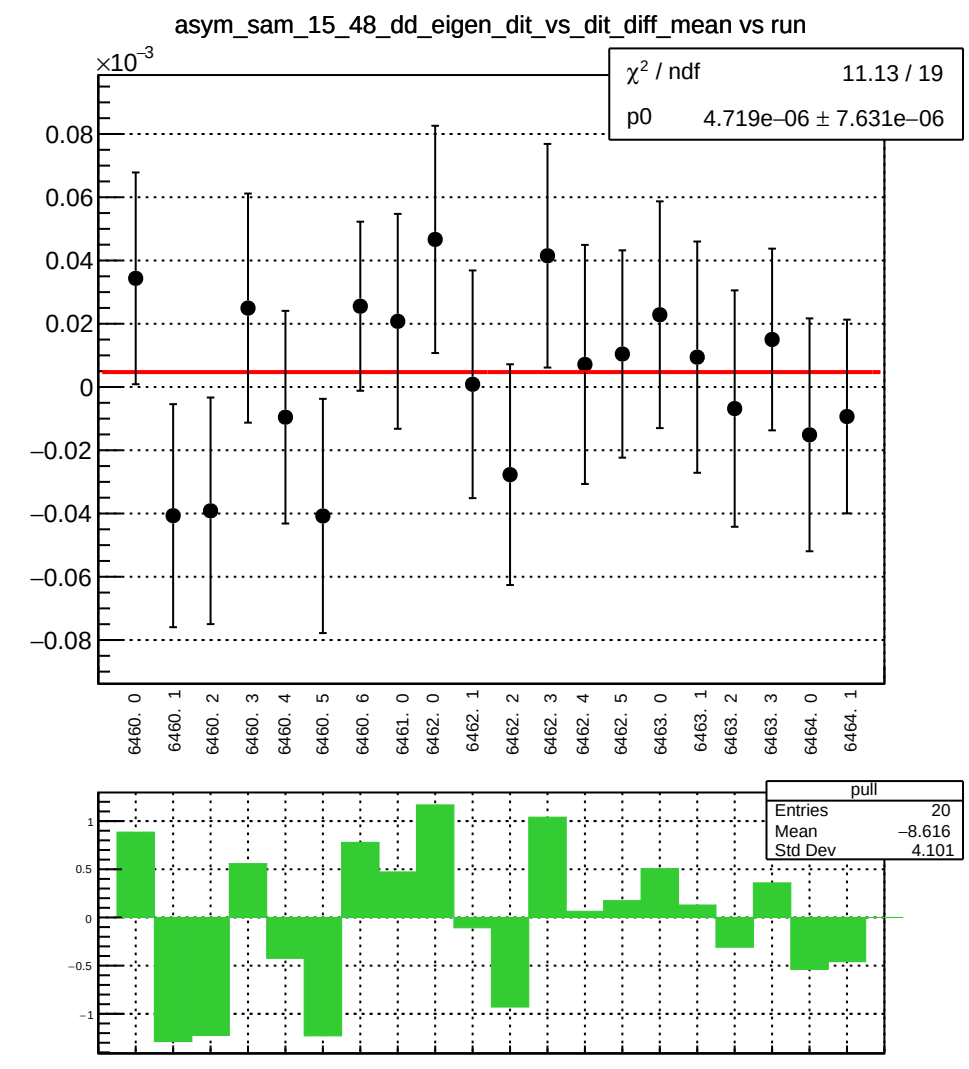

pull1D
Entries 20
Mean −0.02975
Std Dev 0.9691
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

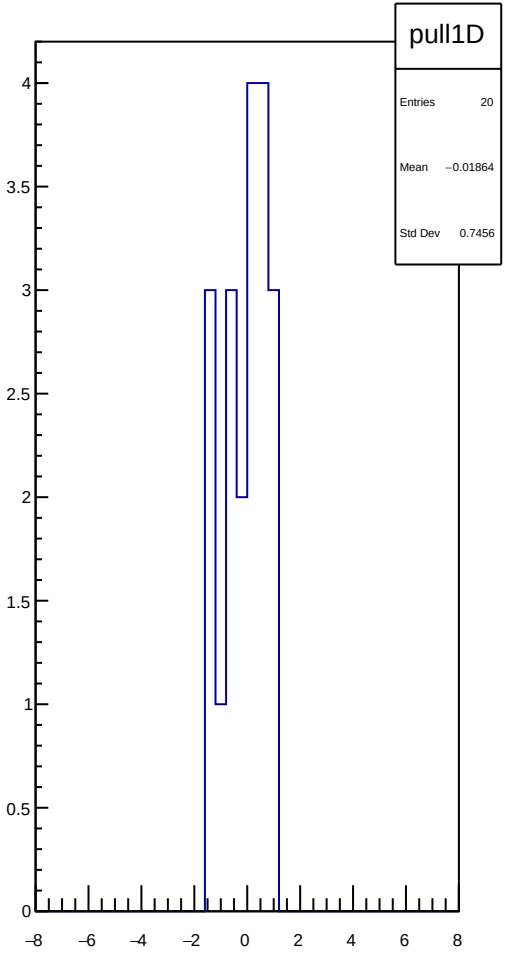

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 675.8 / 19
p0 22.45 ± 0.03529
25
24
23
22
21
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

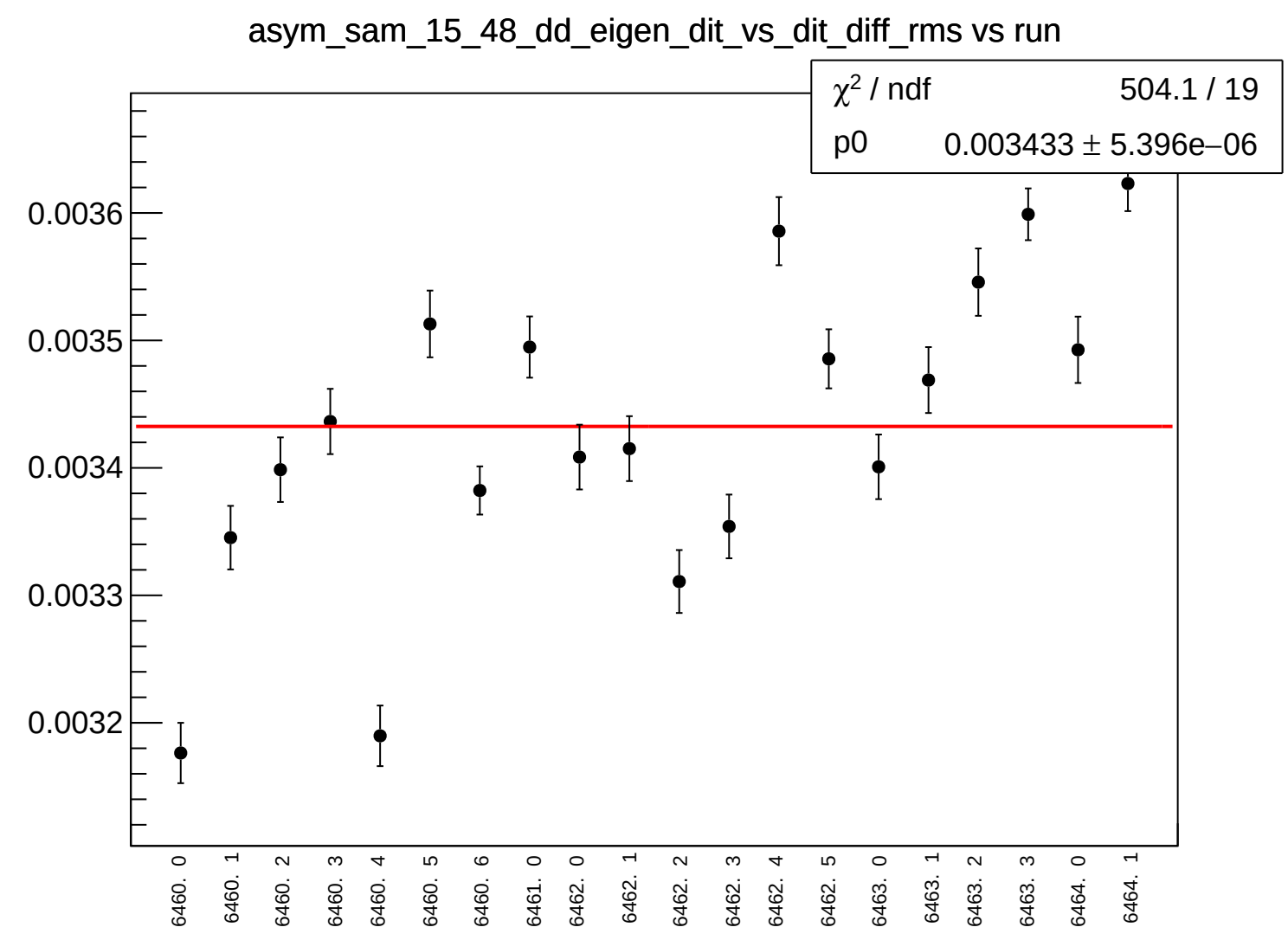

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.8 / 19
p0 −0.01512 ± 0.04991
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

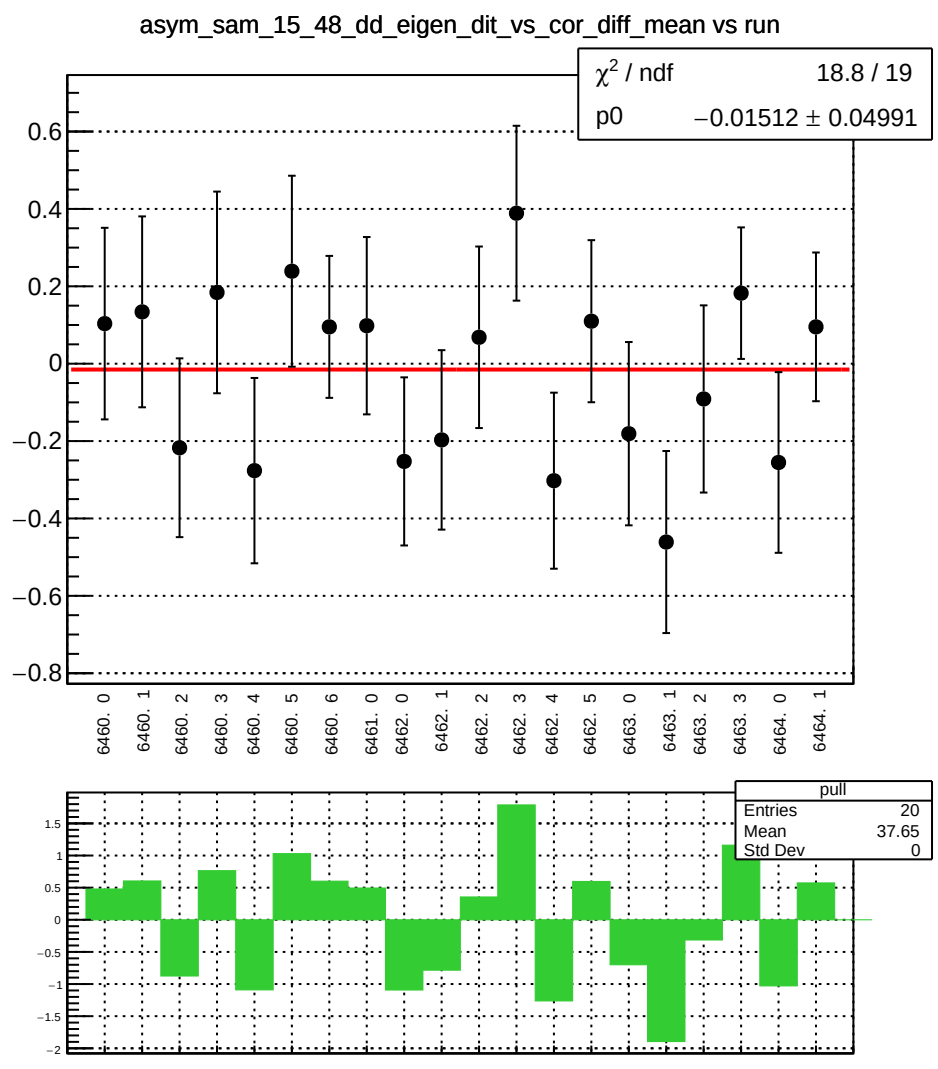

pull1D
Entries 20
Mean −0.02975
Std Dev 0.9691
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

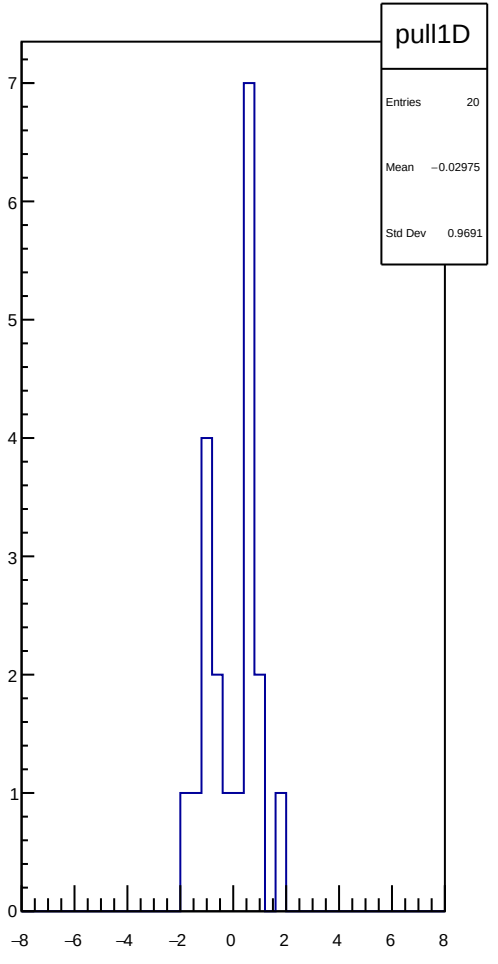

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 675.8 / 19
p0 22.45 ± 0.03529
25
24
23
22
21
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

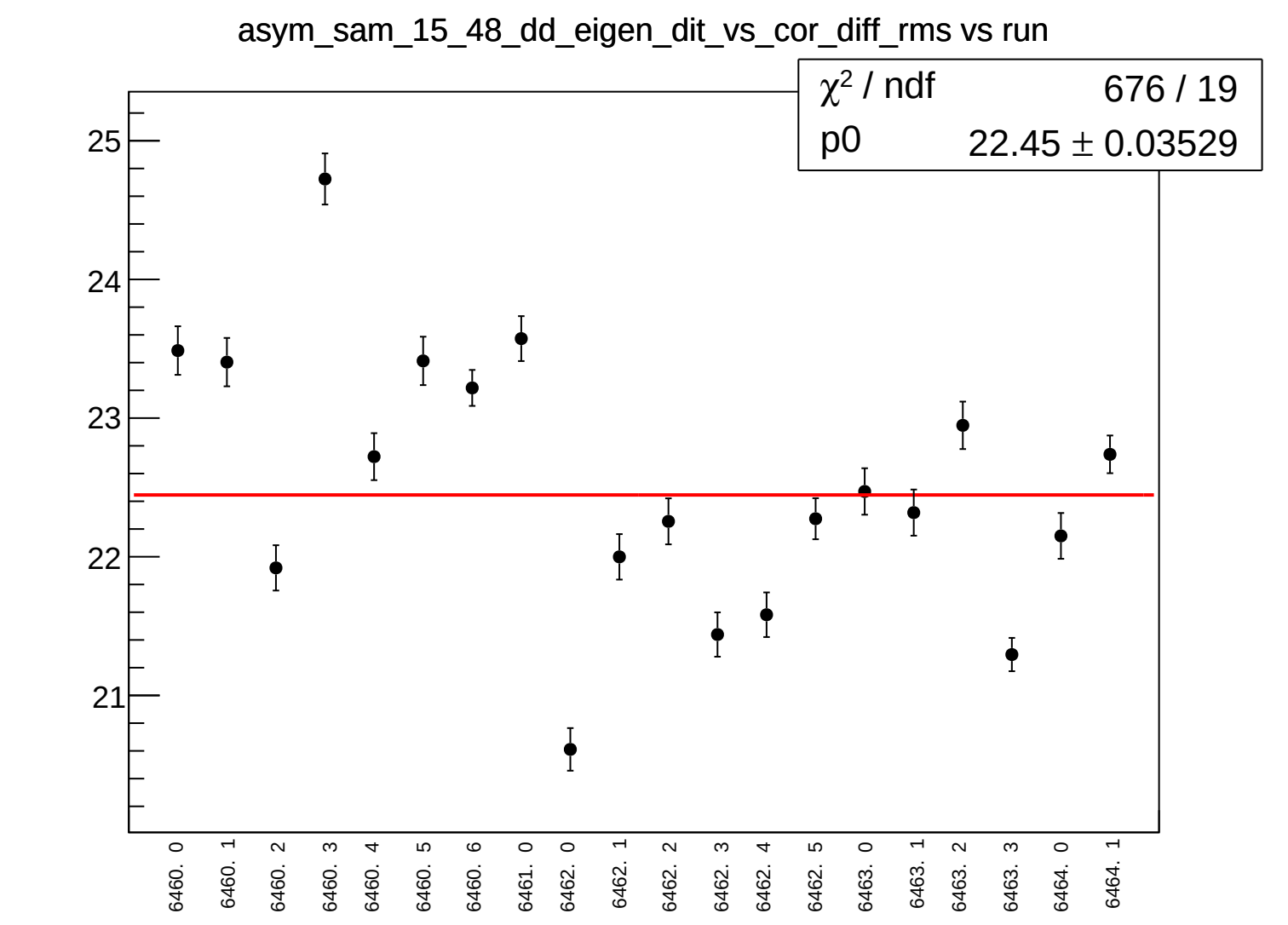

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.13 / 19
p0 4.719e−06 ± 7.631e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −8.616
Std Dev 4.101
1
0.5
0
−0.5
−1

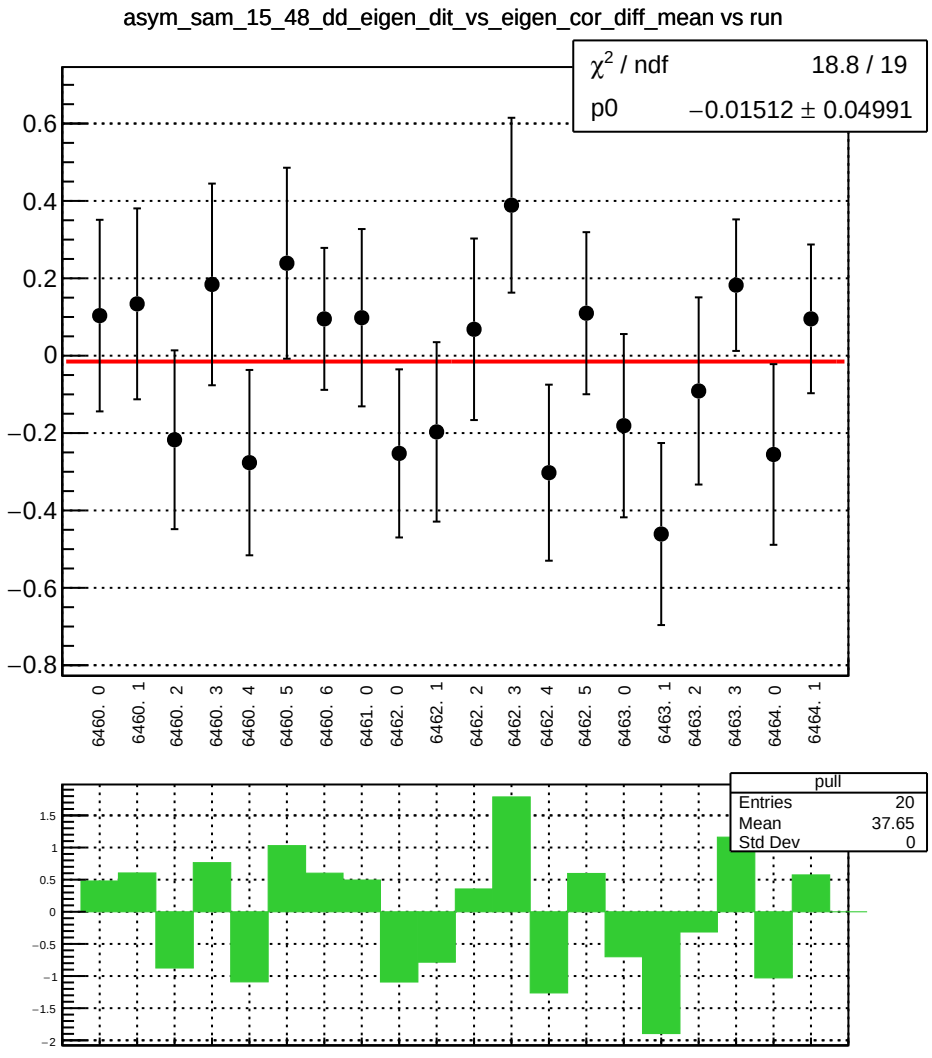

pull1D
Entries 20
Mean −0.01864
Std Dev 0.7456
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

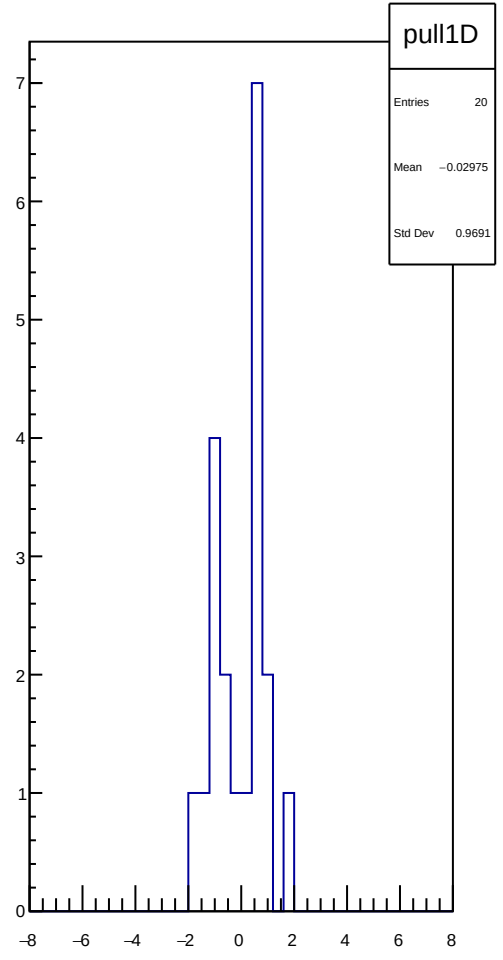

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 504.1 / 19
p0 0.003433 ± 5.396e−06
0.0036
0.0035
0.0034
0.0033
0.0032
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

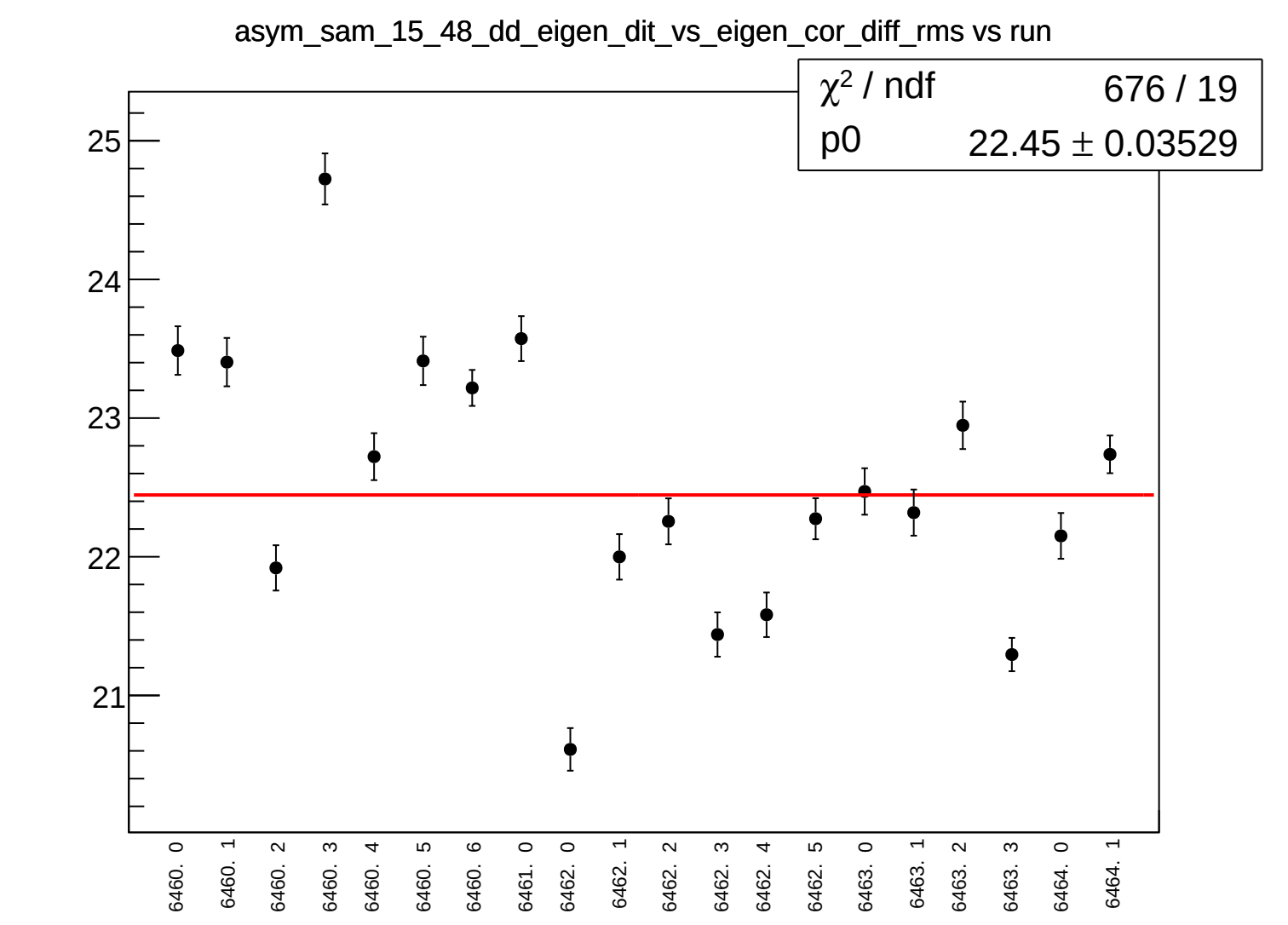

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.8 / 19
p0 −0.01512 ± 0.04991
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

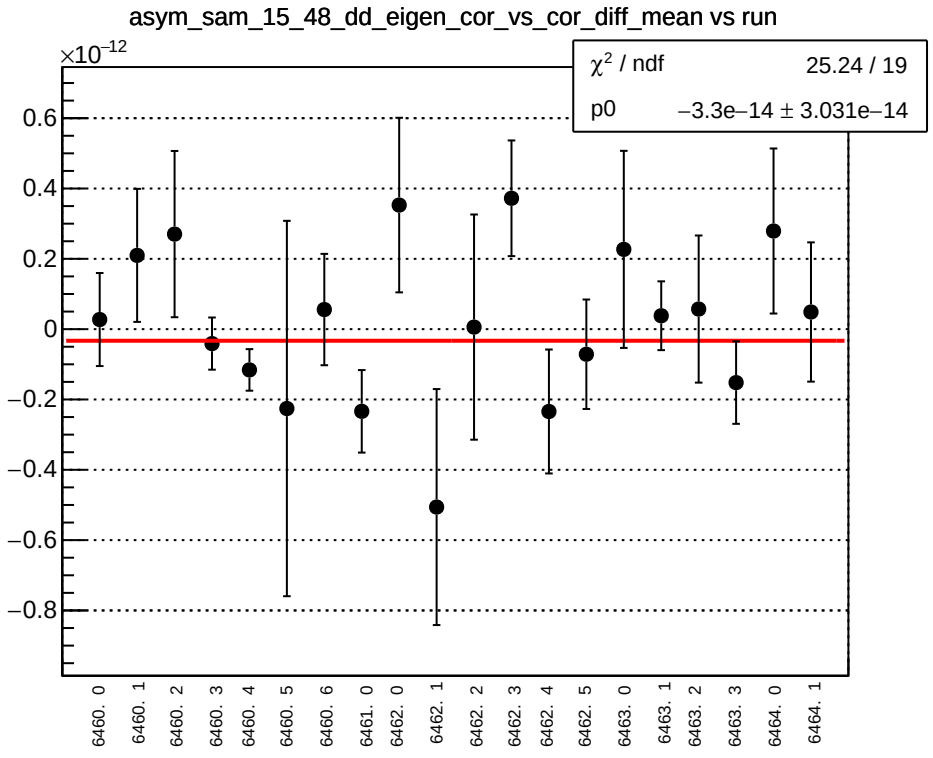

pull1D
Entries 20
Mean −0.02975
Std Dev 0.9691
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

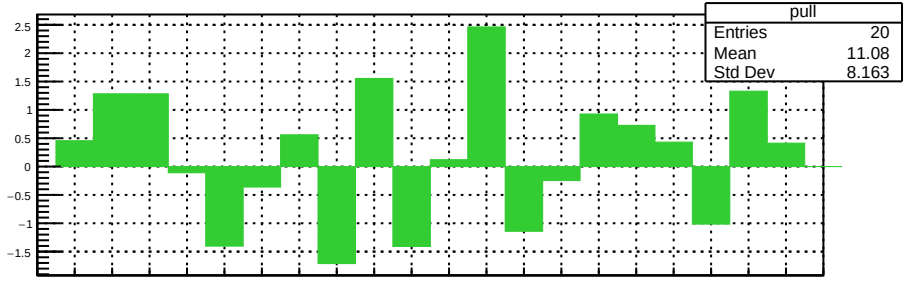

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 676 / 19
p0 22.45 ± 0.03529
25
24
23
22
21
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

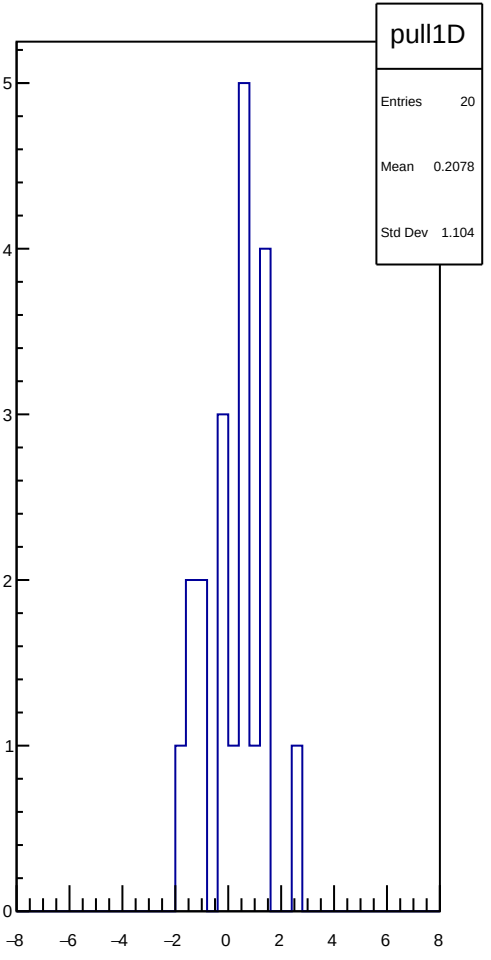

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.8 / 19
p0 −0.01512 ± 0.04991
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 37.65
Std Dev 0

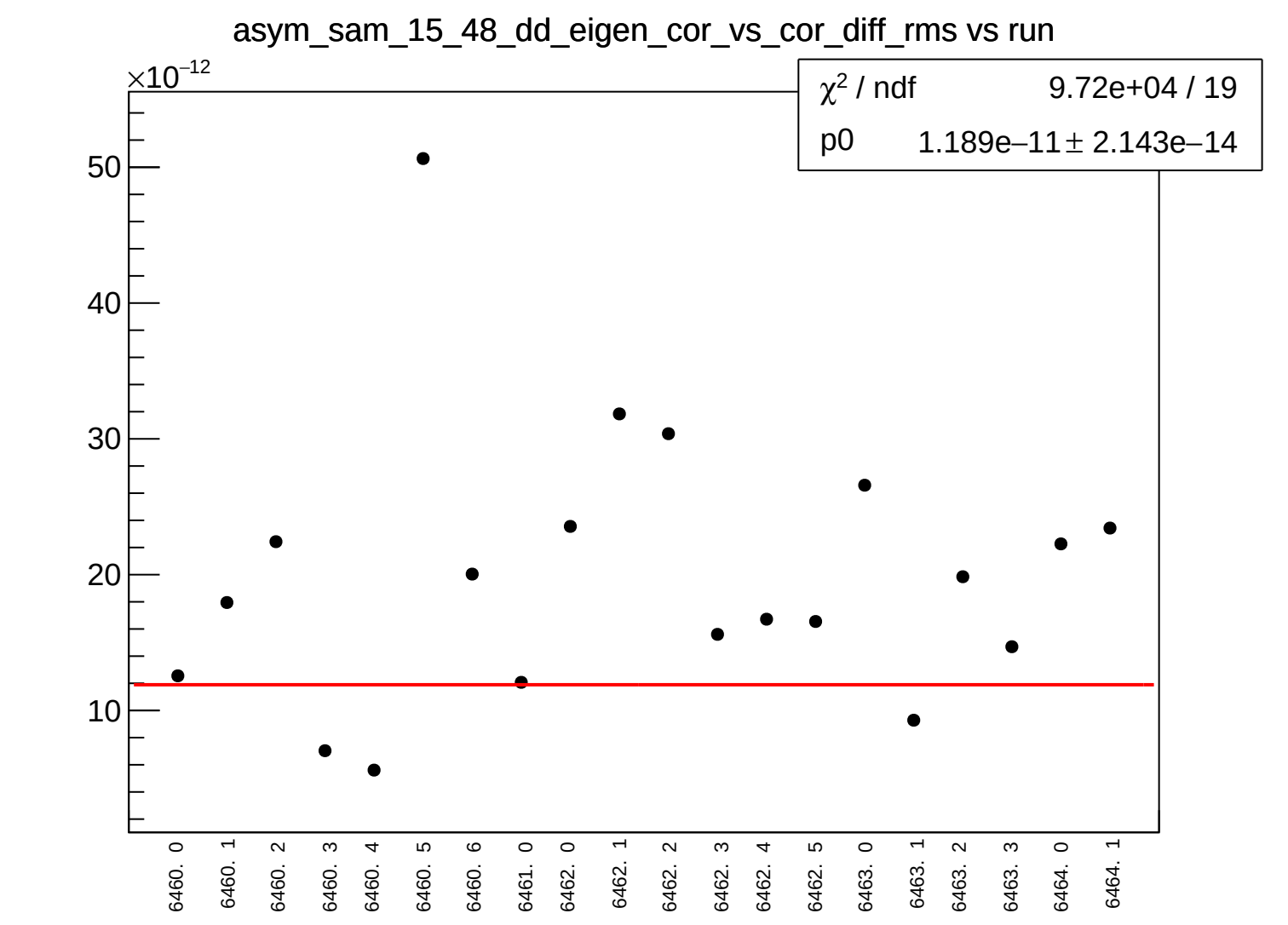

pull1D
Entries 20
Mean −0.02975
Std Dev 0.9691

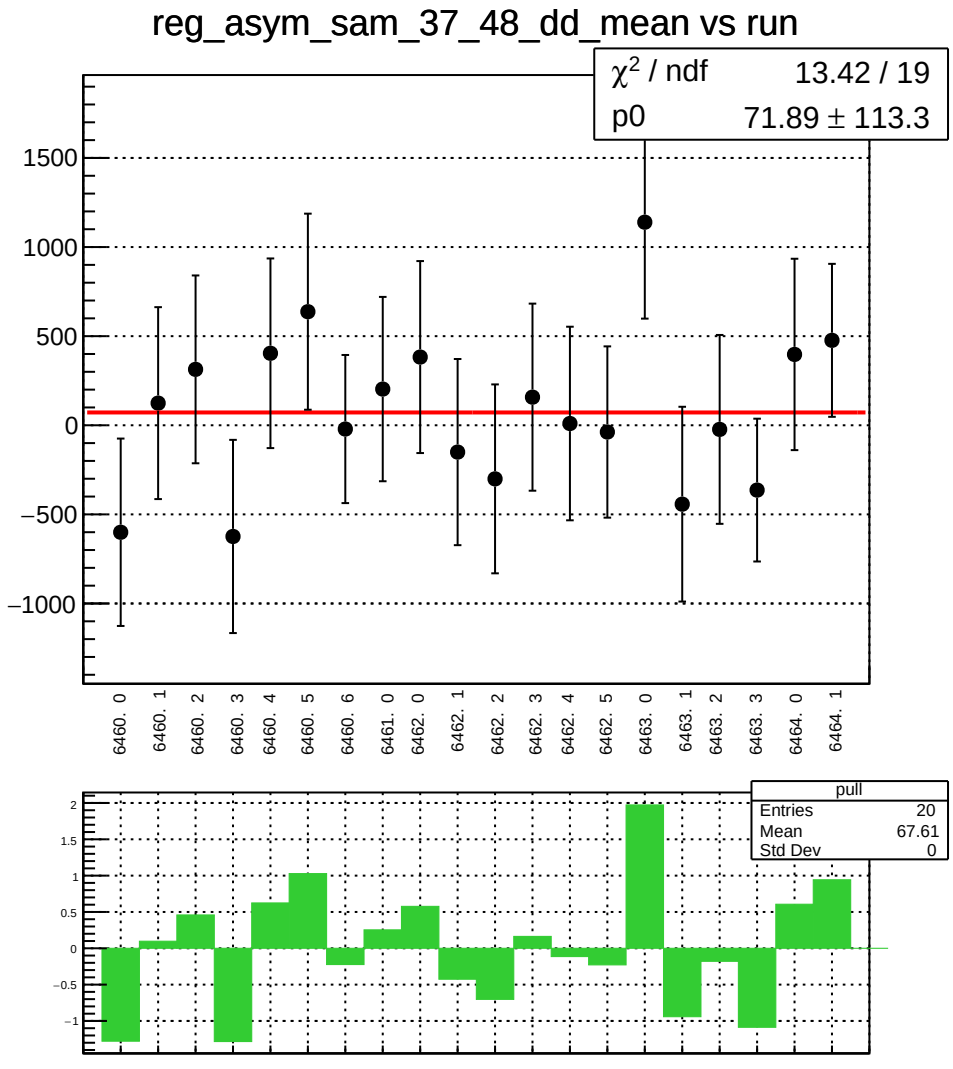

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 676 / 19
p0 22.45 ± 0.03529
25
24
23
22
21
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

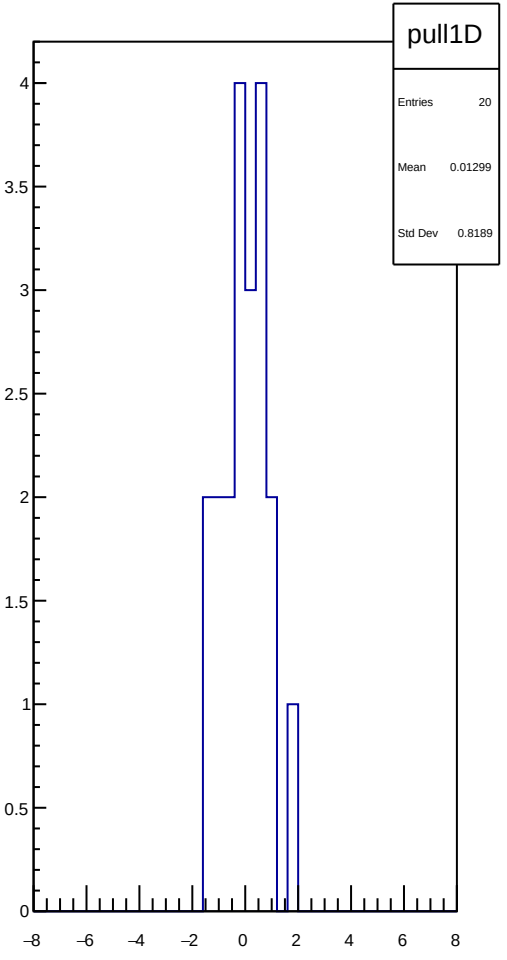

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.24 / 19
p0 −3.3e−14 ± 3.031e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

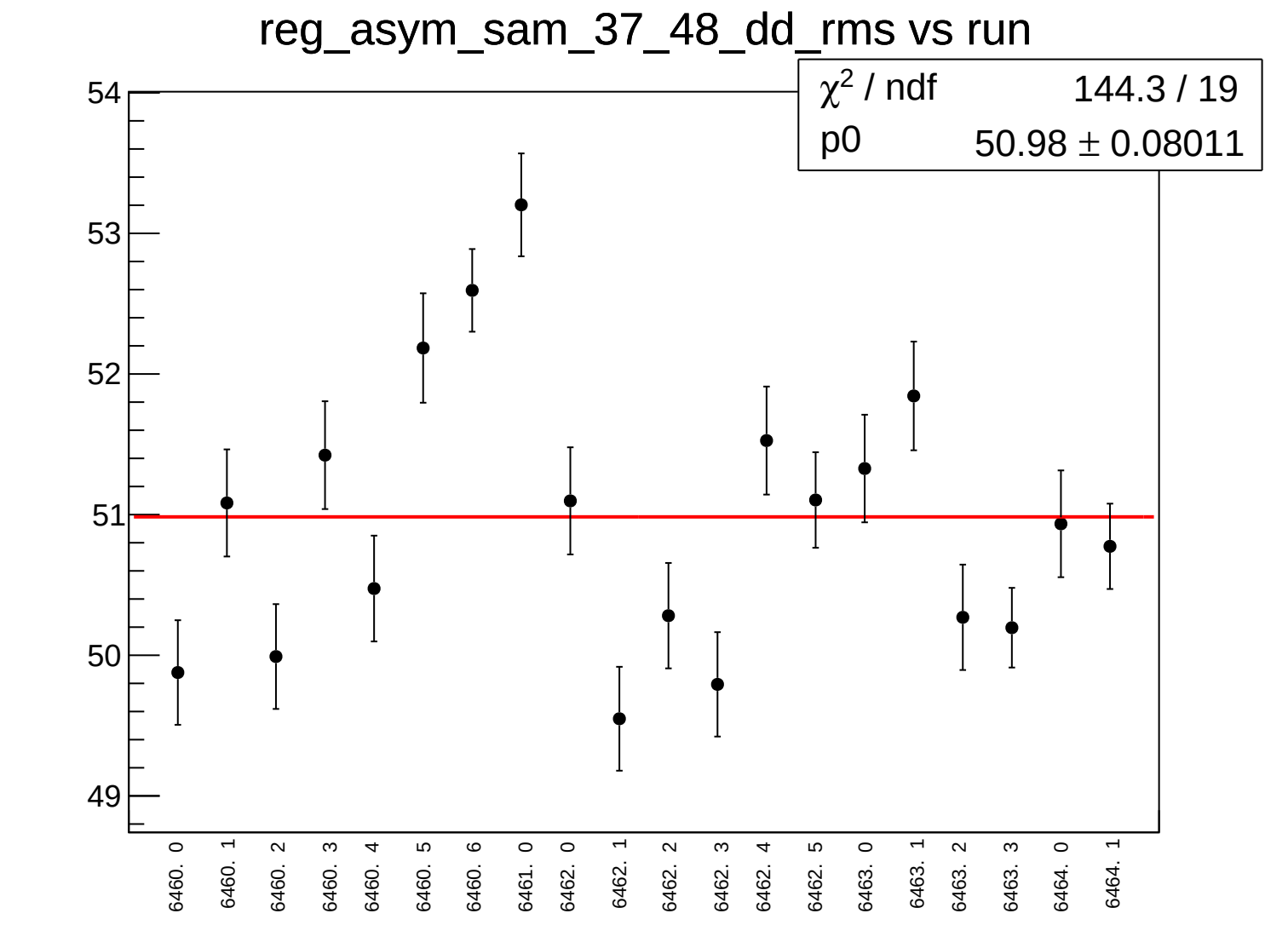

pull
Entries 20
Mean 11.08
Std Dev 8.163
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

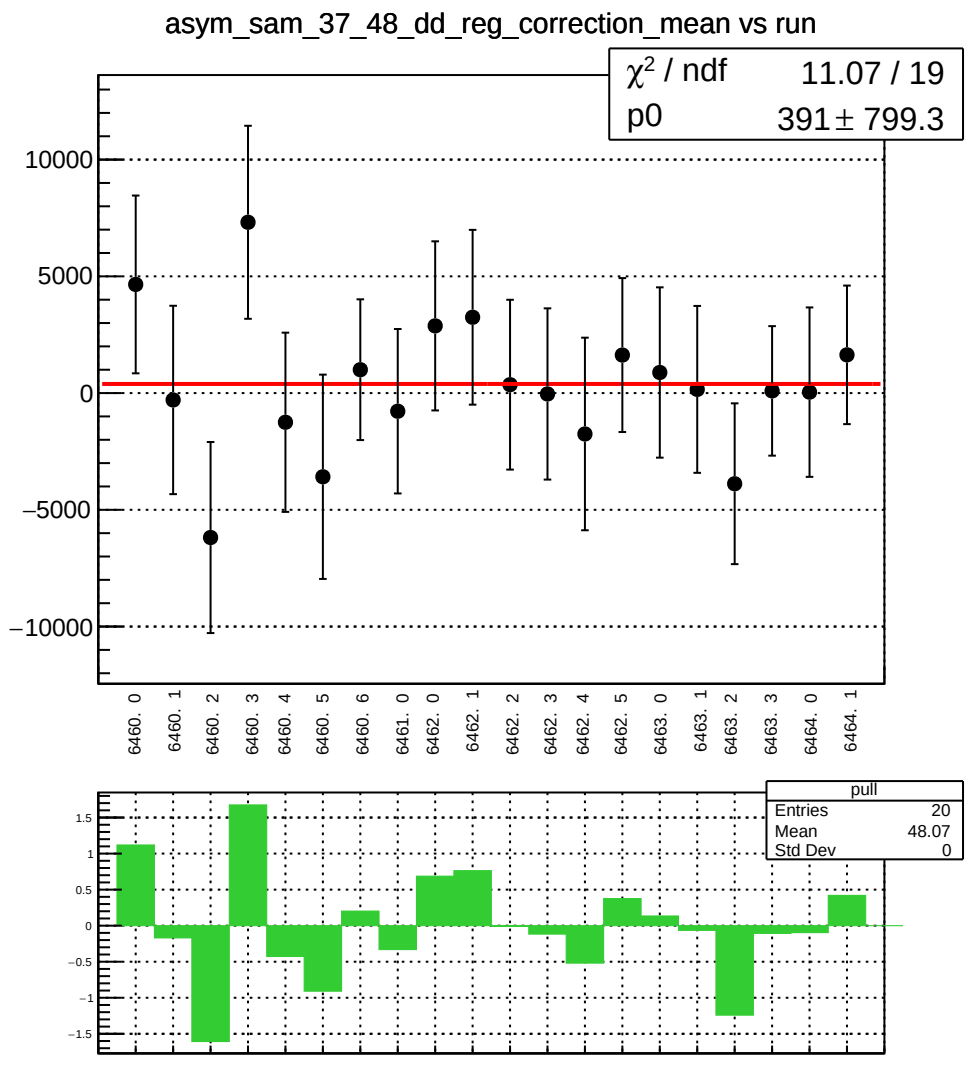

pull1D
Entries 20
Mean 0.2078
Std Dev 1.104
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

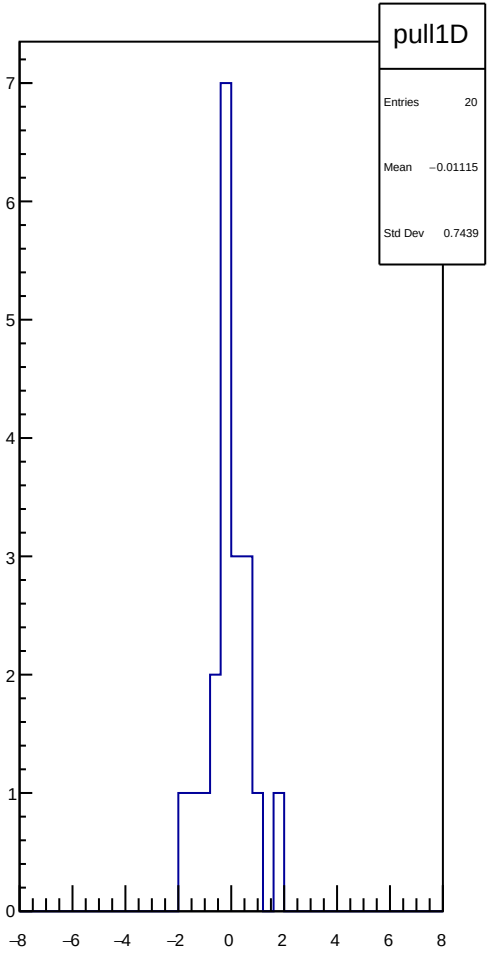

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.72e+04 / 19
p0 1.189e−11 ± 2.143e−14
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

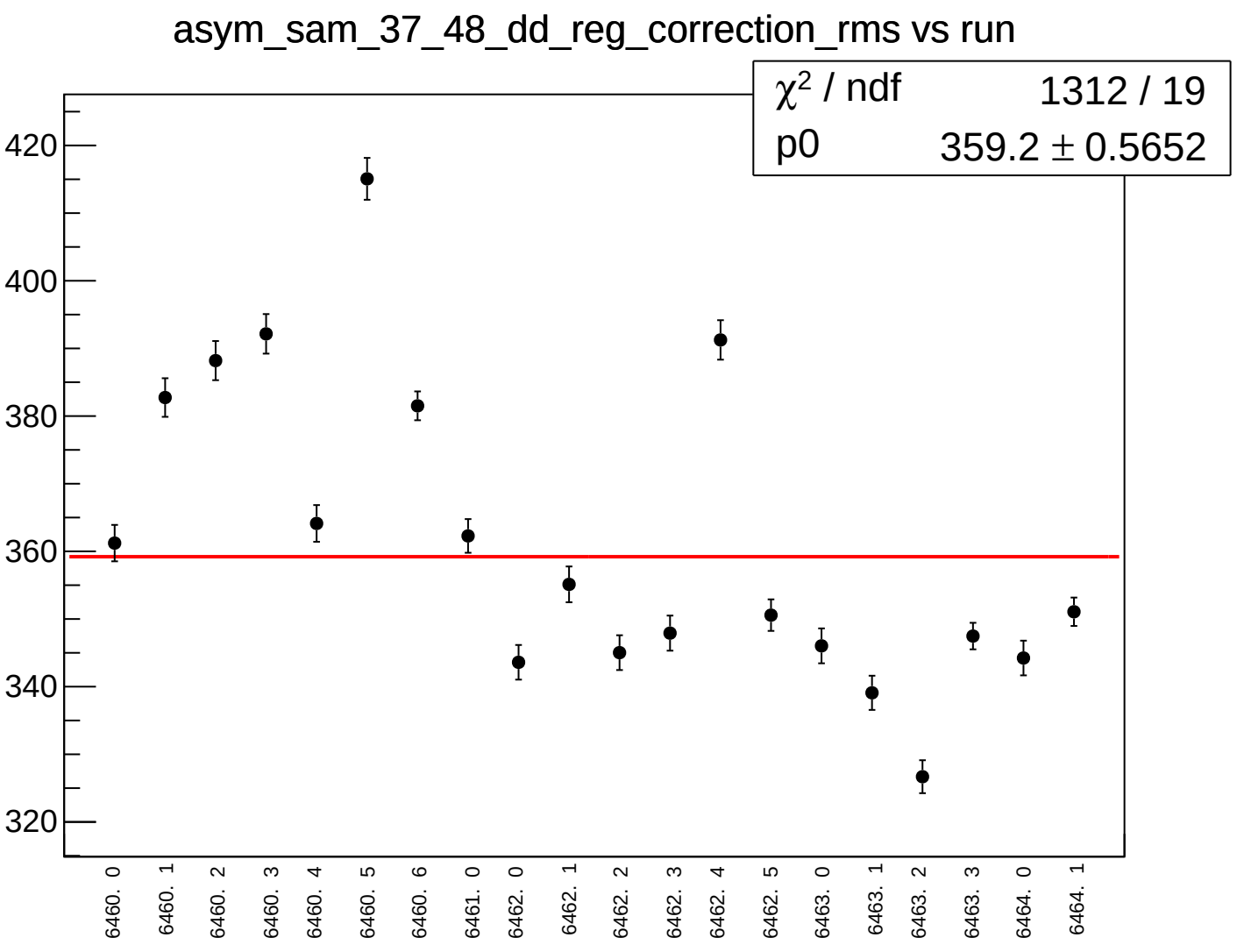

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 13.42 / 19
p0 71.89 ± 113.3
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 67.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

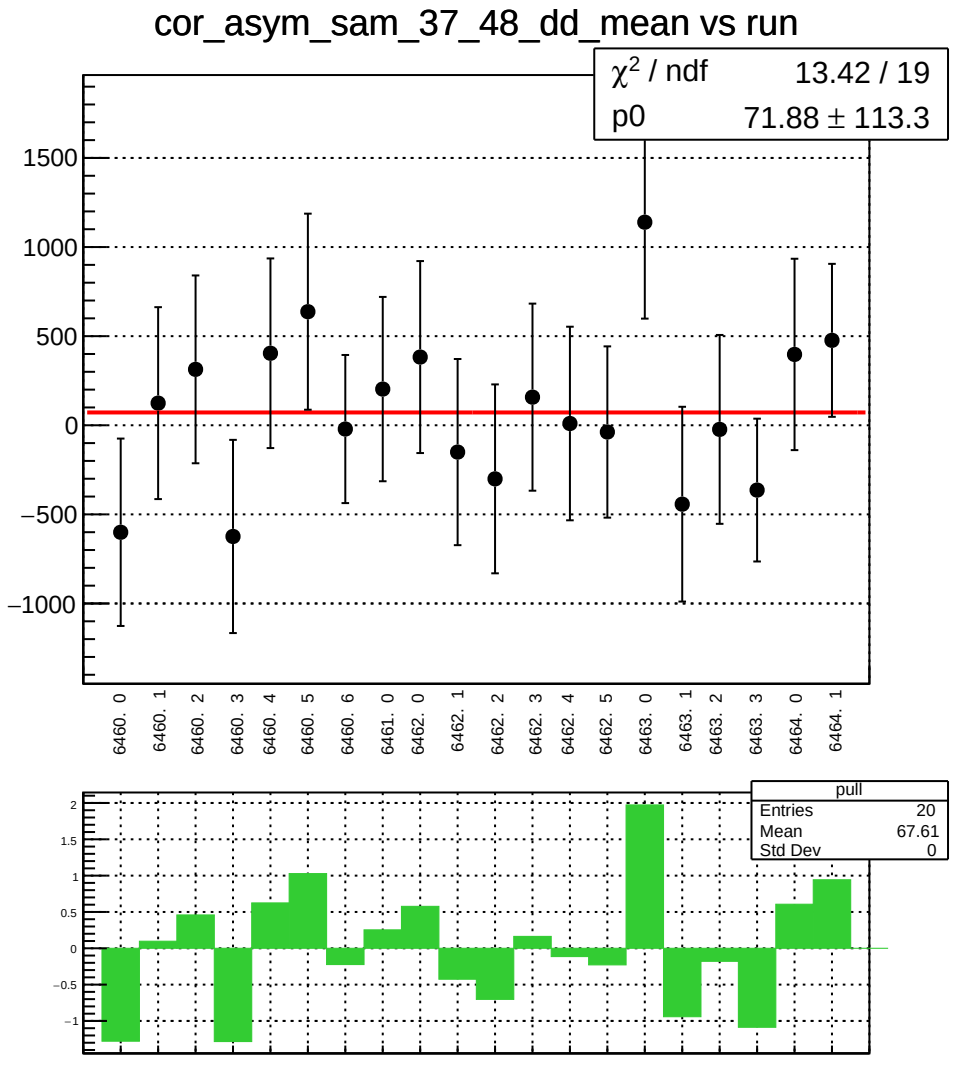

pull1D
Entries 20
Mean 0.01299
Std Dev 0.8189
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

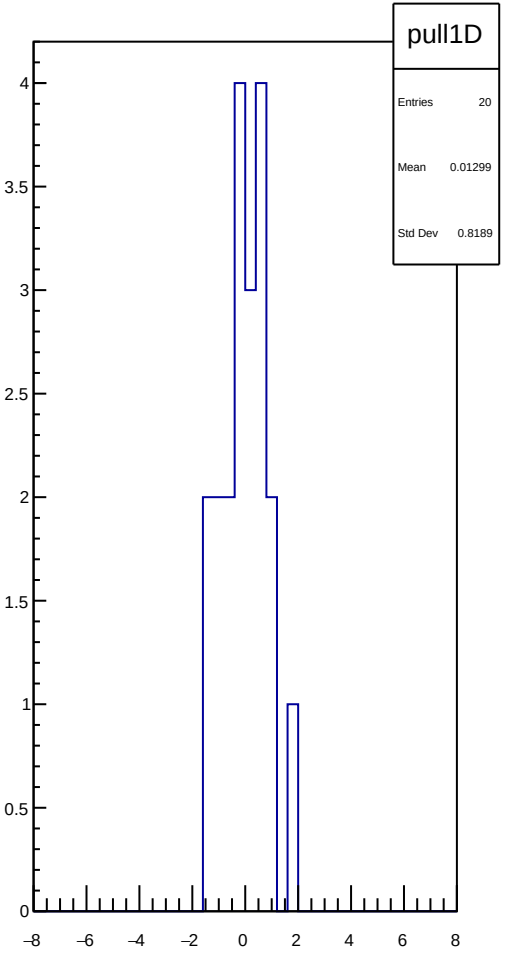

reg_asym_sam_37_48_dd_rms vs run
χ2 / ndf 144.3 / 19
p0 50.98 ± 0.08011
54
53
52
51
50
49
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

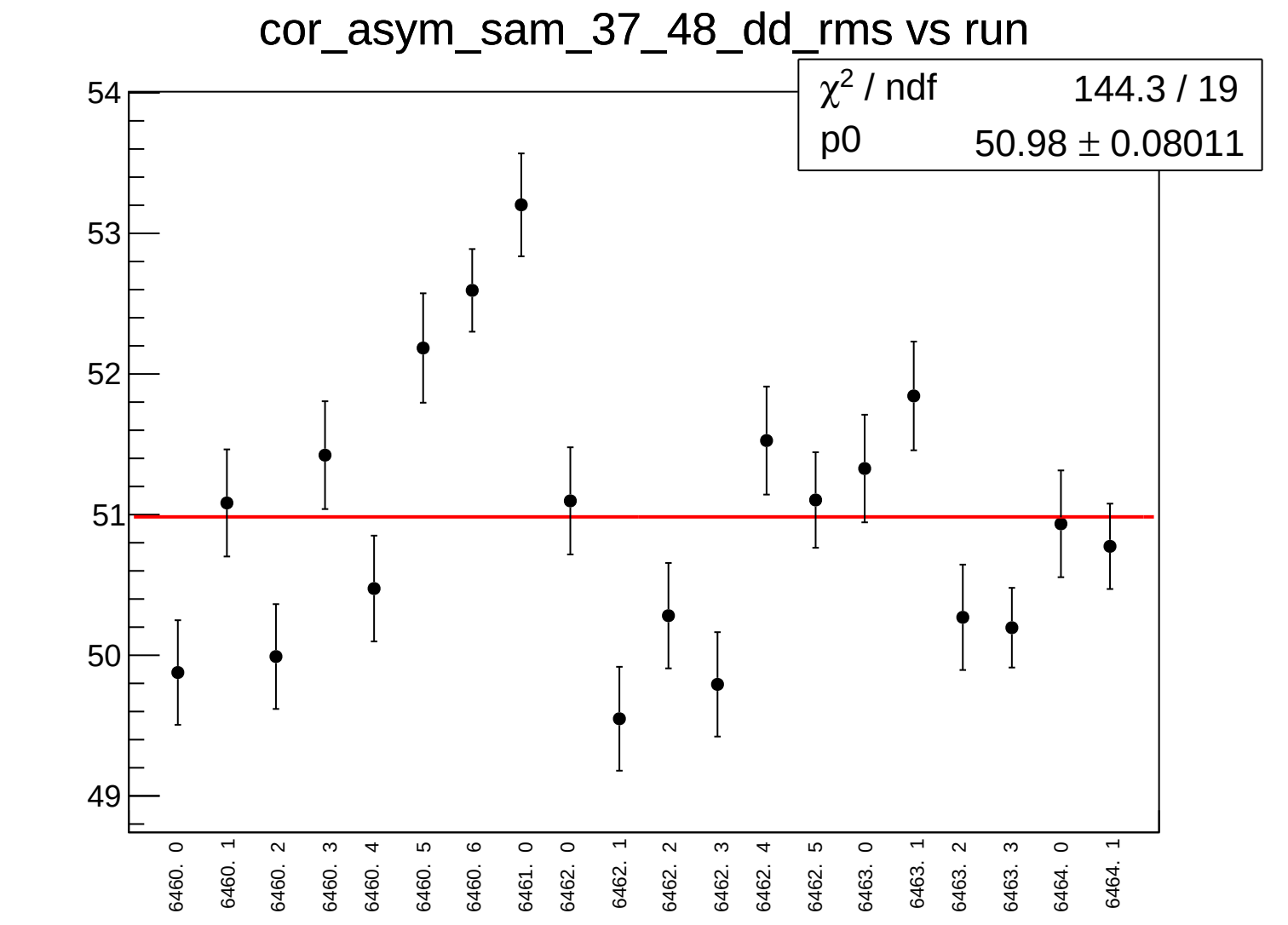

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 11.07 / 19
p0 391 ± 799.3
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

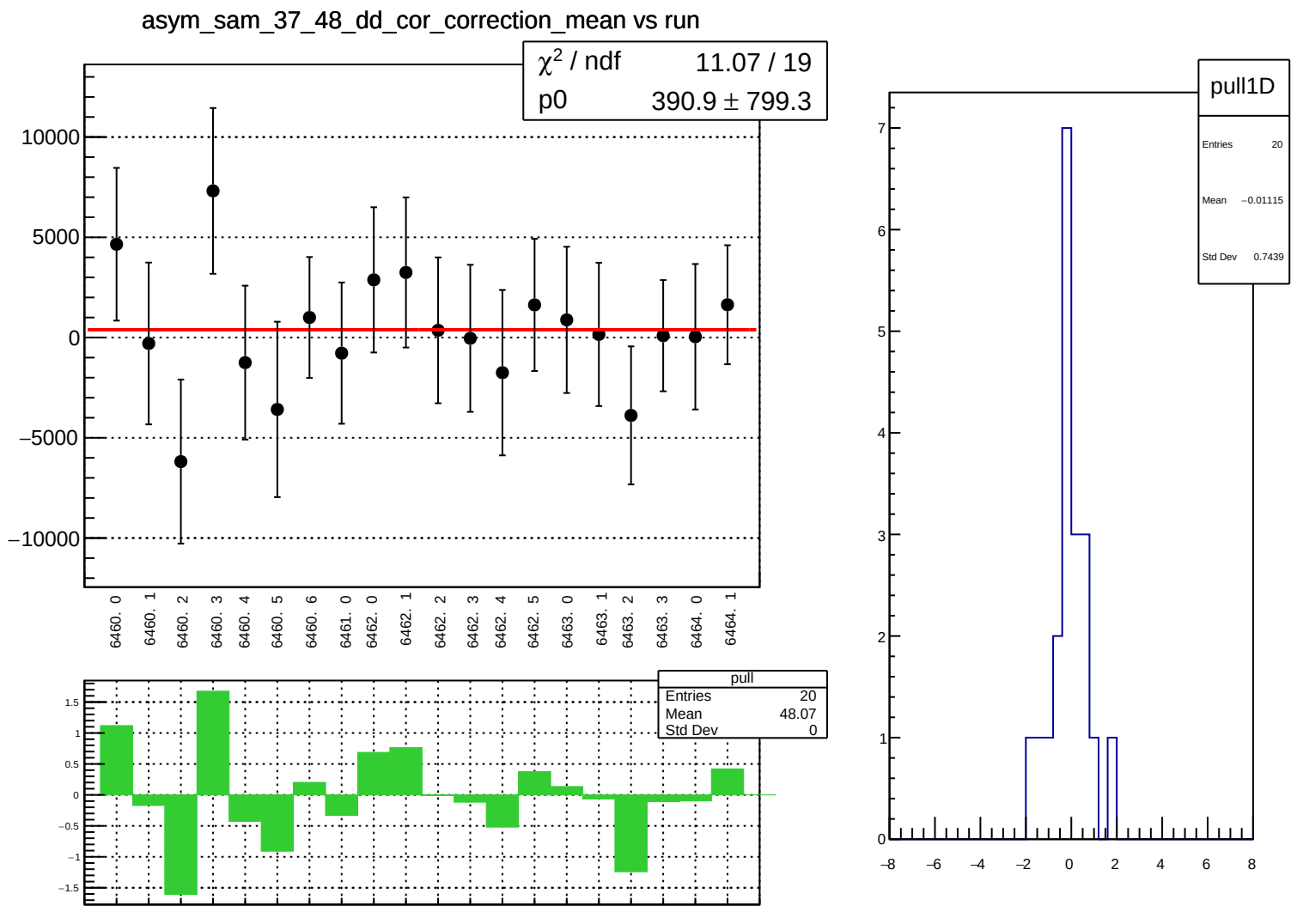

pull1D
Entries 20
Mean −0.01115
Std Dev 0.7439
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

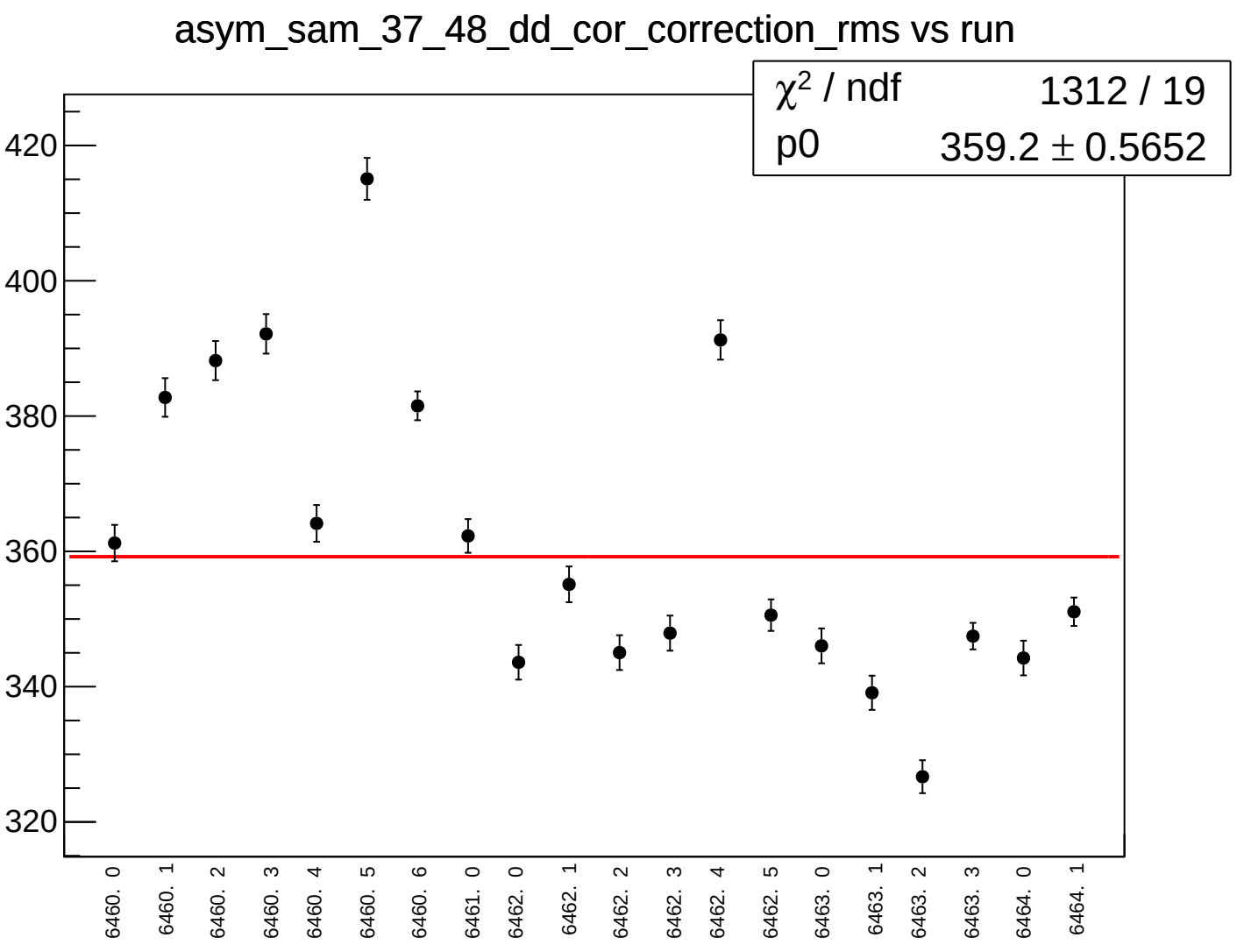

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1312 / 19
p0 359.2 ± 0.5652
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

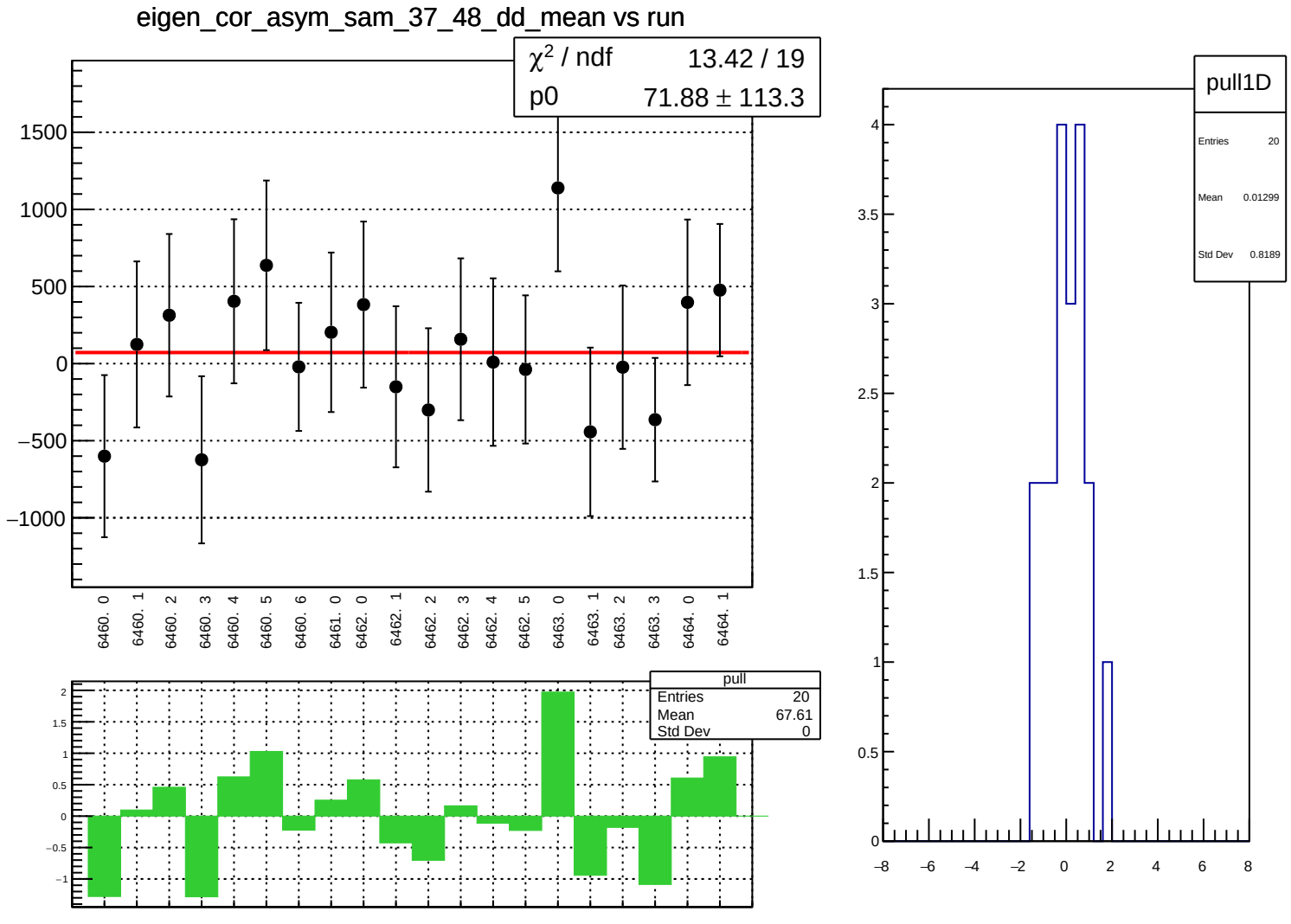

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 13.42 / 19
p0 71.88 ± 113.3
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 67.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

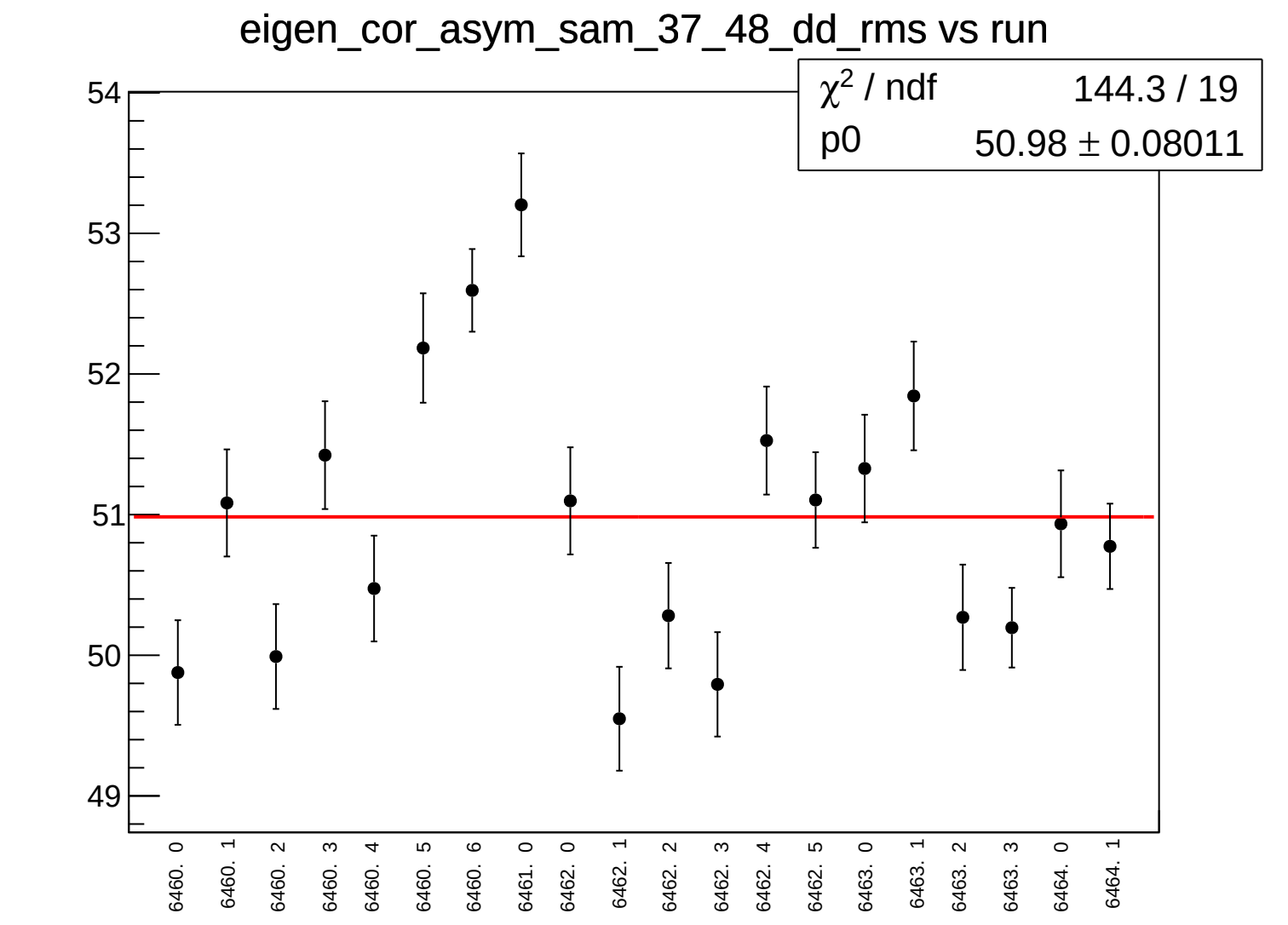

pull1D
Entries 20
Mean 0.01299
Std Dev 0.8189
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

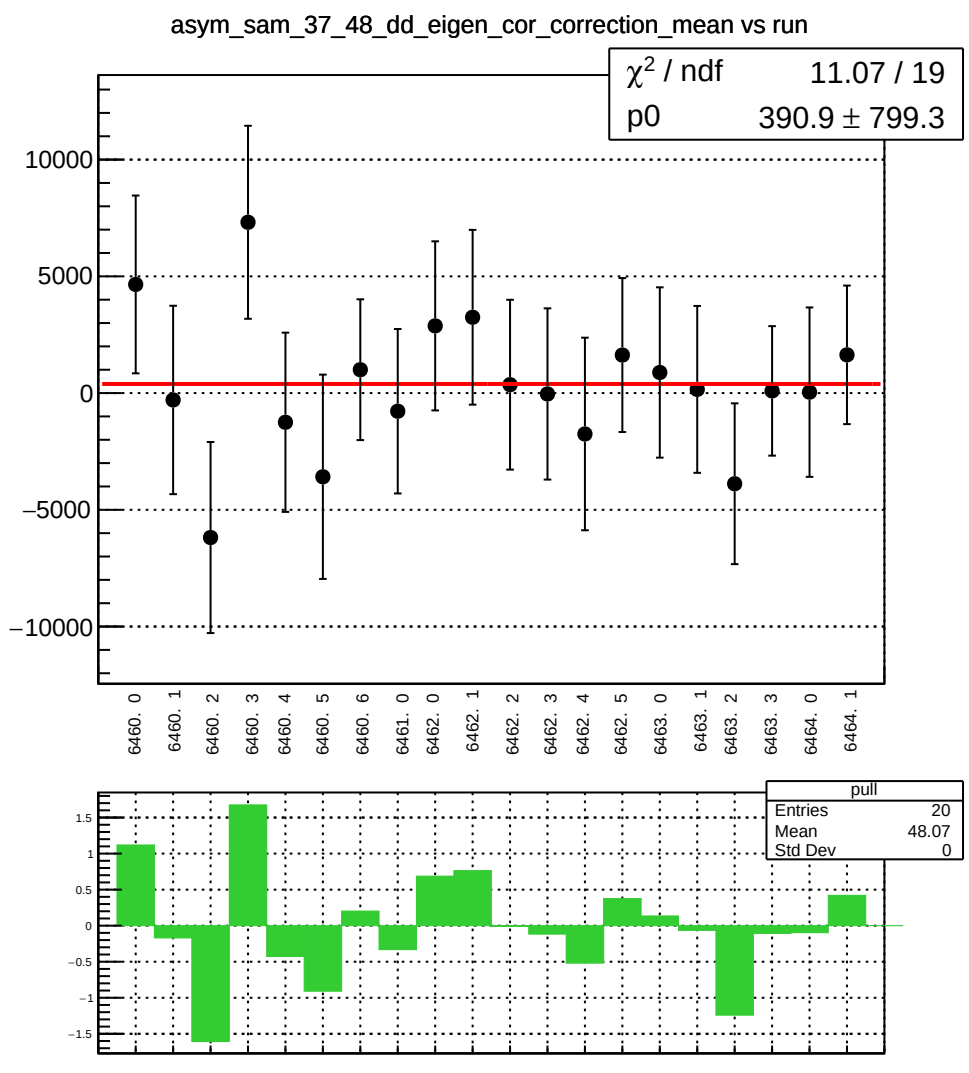

cor_asym_sam_37_48_dd_rms vs run
χ2 / ndf 144.3 / 19
p0 50.98 ± 0.08011
54
53
52
51
50
49
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

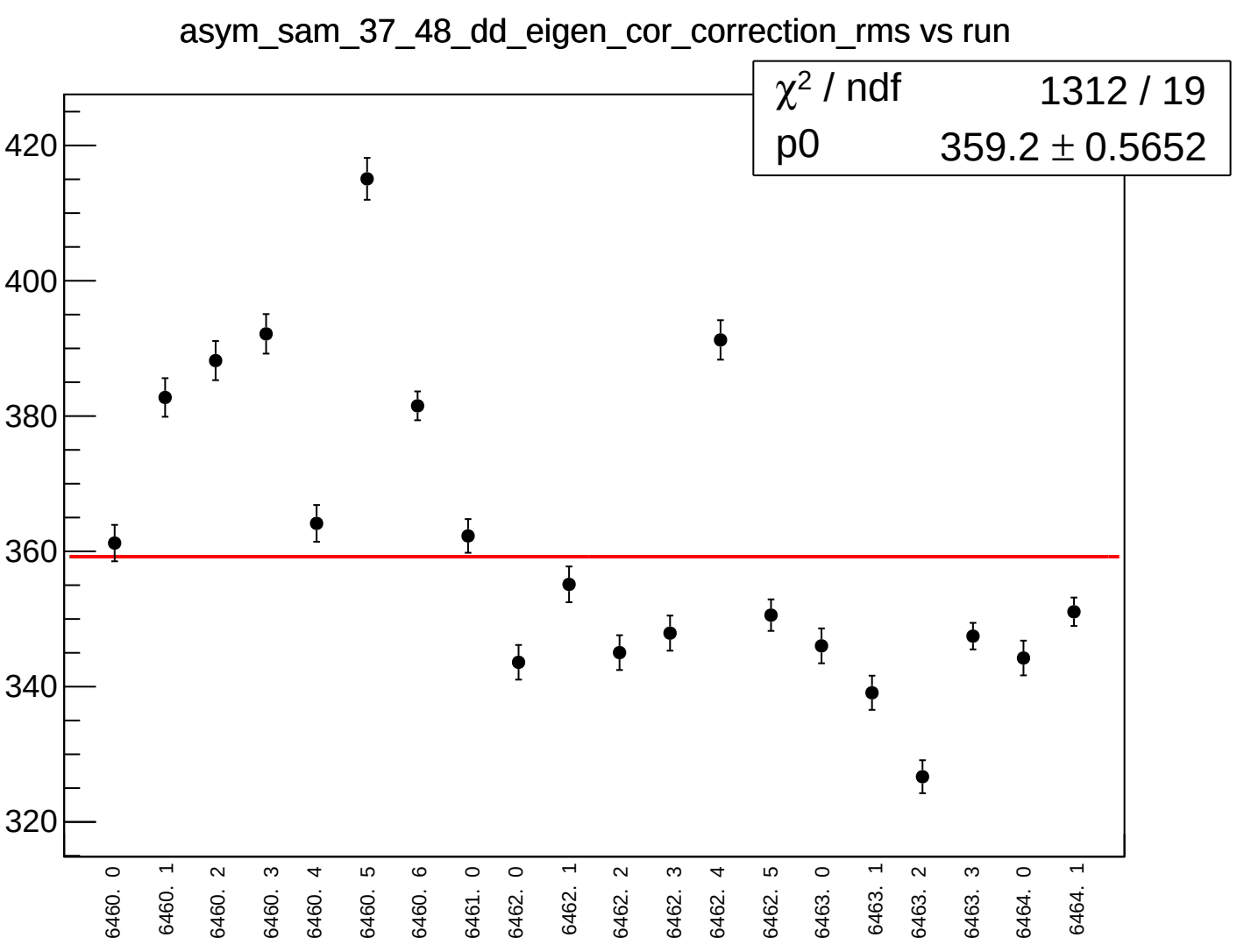

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 11.07 / 19
p0 390.9 ± 799.3
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01115
Std Dev 0.7439
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

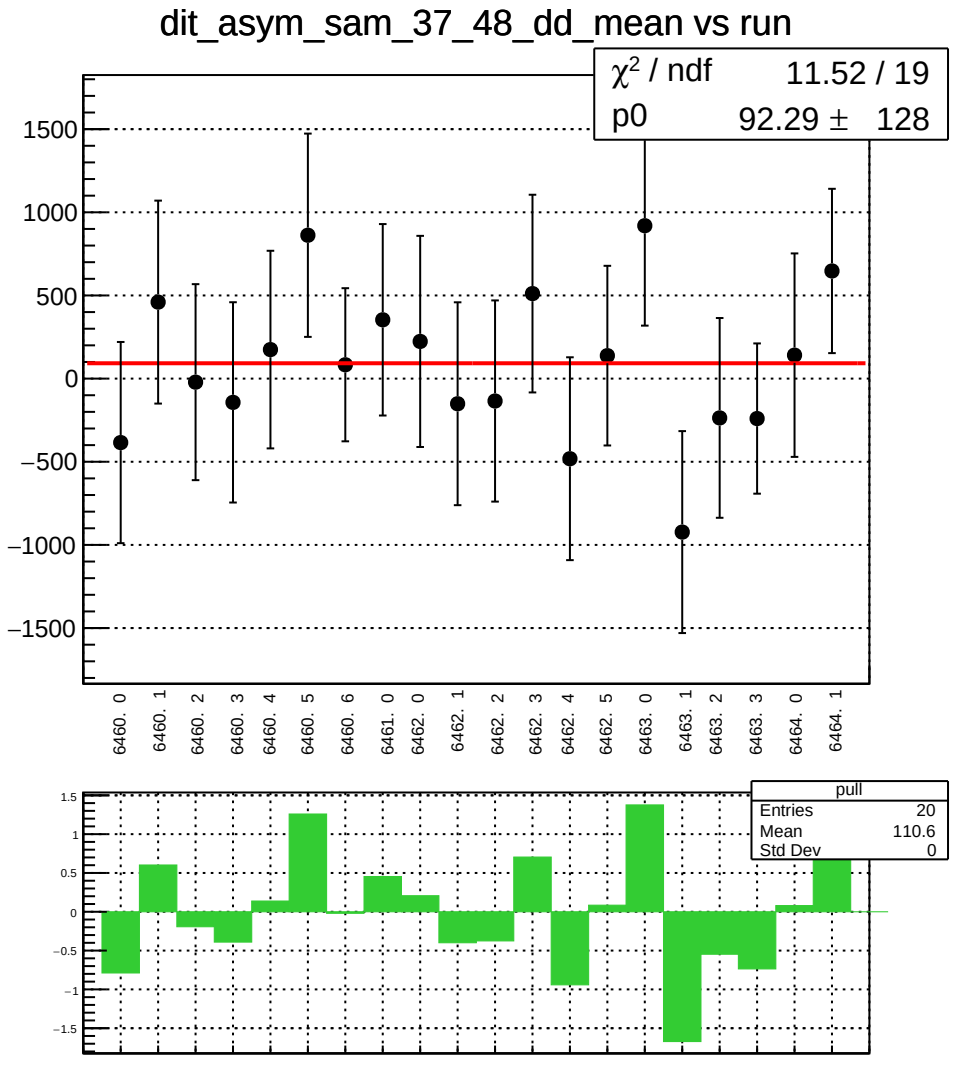

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1312 / 19
p0 359.2 ± 0.5652
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

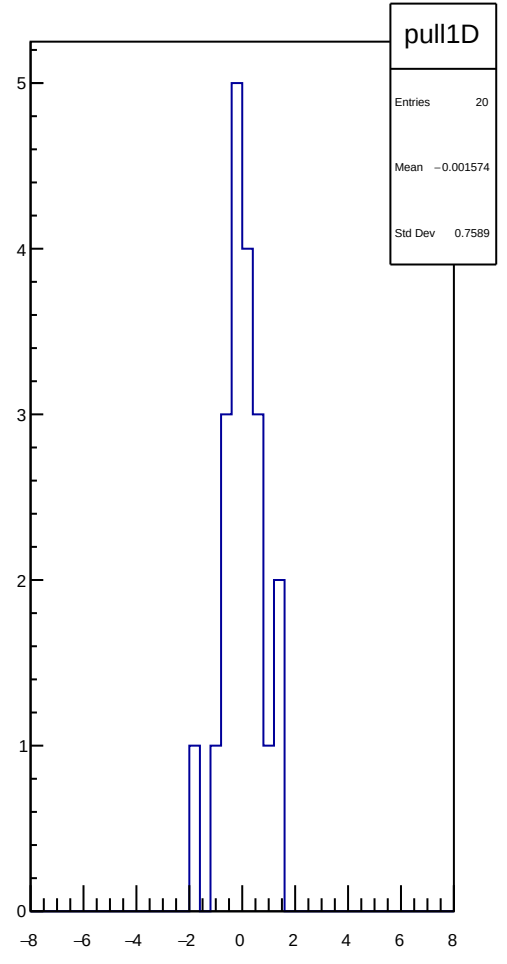

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 13.42 / 19
p0 71.88 ± 113.3
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 67.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01299
Std Dev 0.8189
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

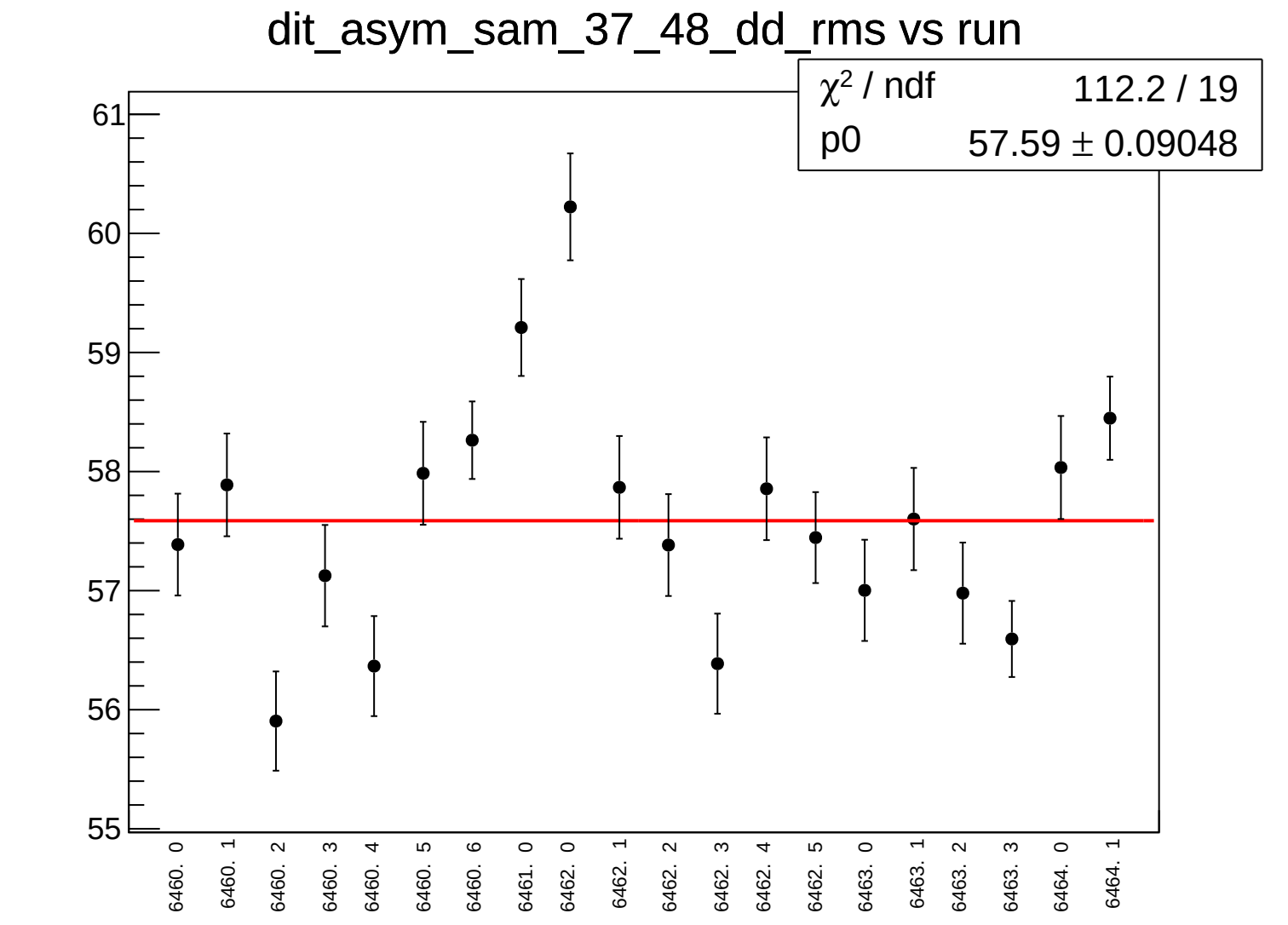

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 144.3 / 19
p0 50.98 ± 0.08011
54
53
52
51
50
49
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

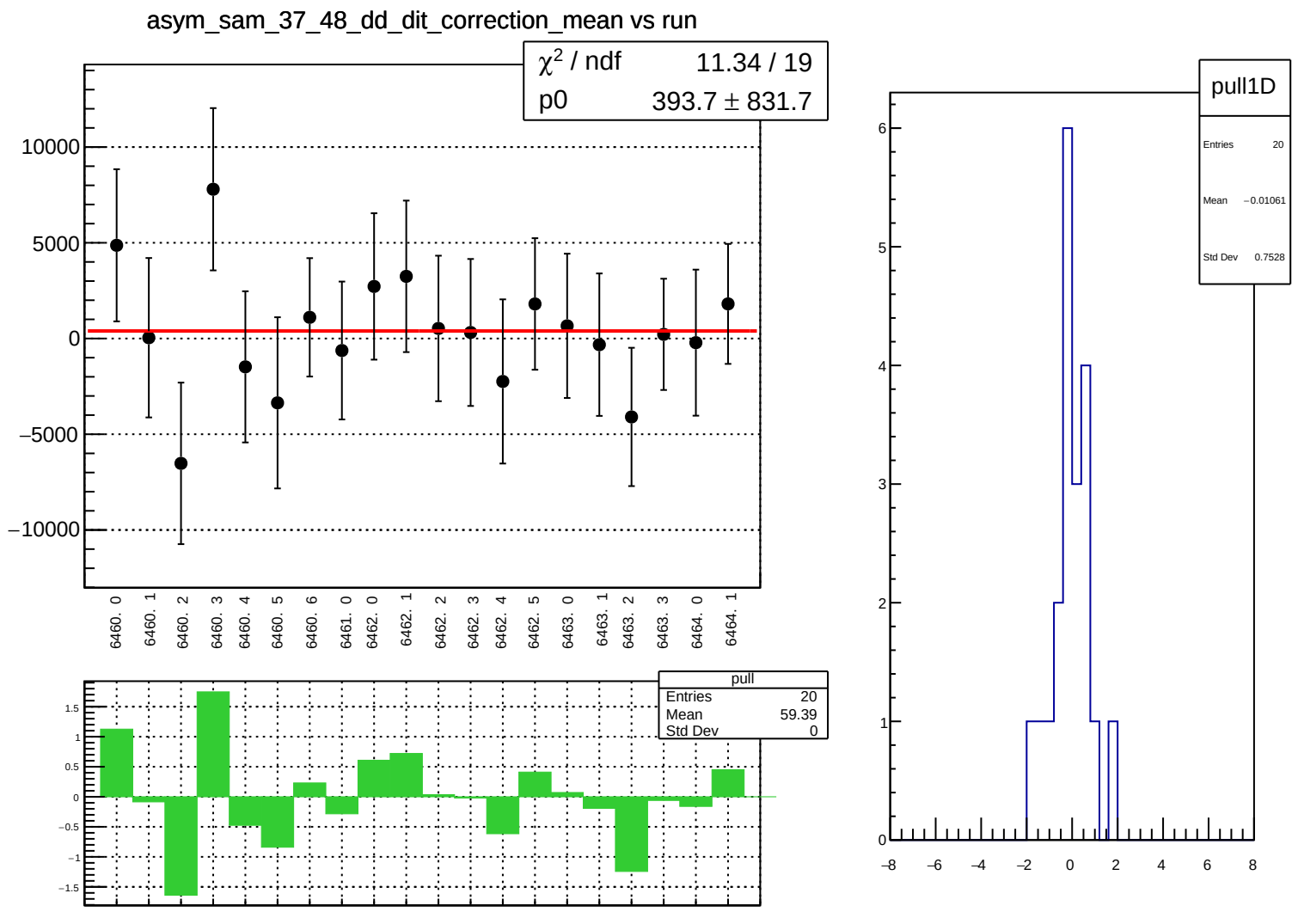

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 11.07 / 19
p0 390.9 ± 799.3
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01115
Std Dev 0.7439
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

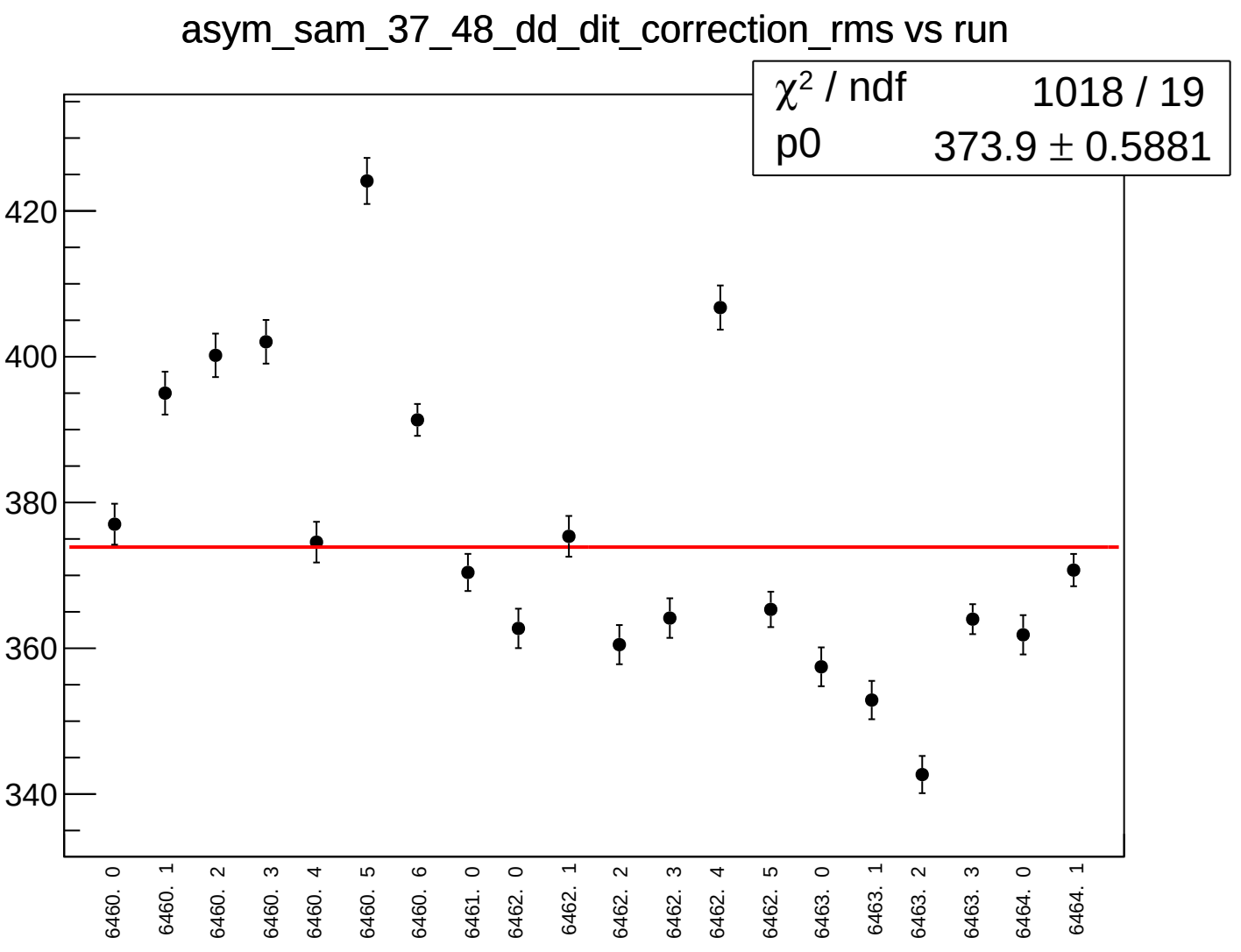

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1312 / 19
p0 359.2 ± 0.5652
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

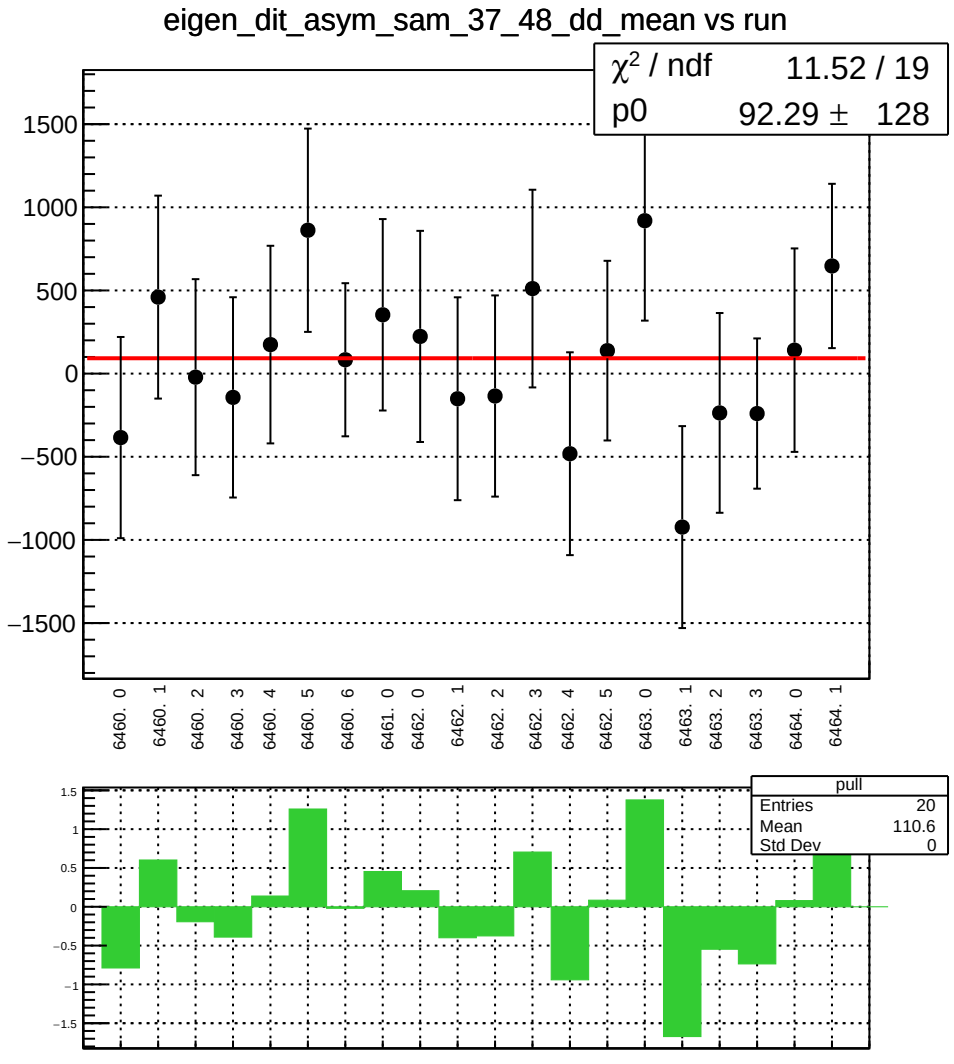

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 11.52 / 19
p0 92.29 ± 128
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 110.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

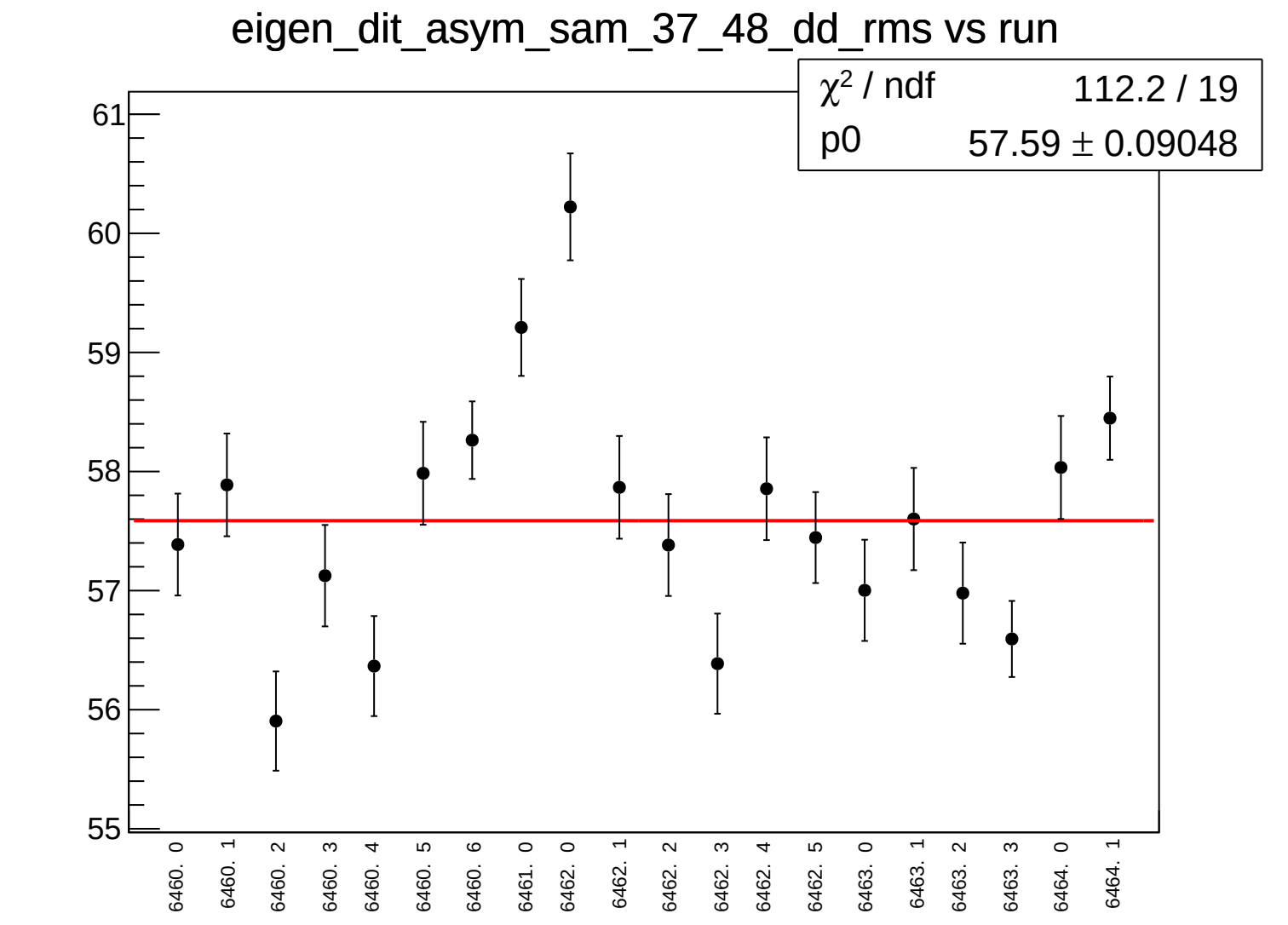

pull1D
Entries 20
Mean −0.001574
Std Dev 0.7589
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

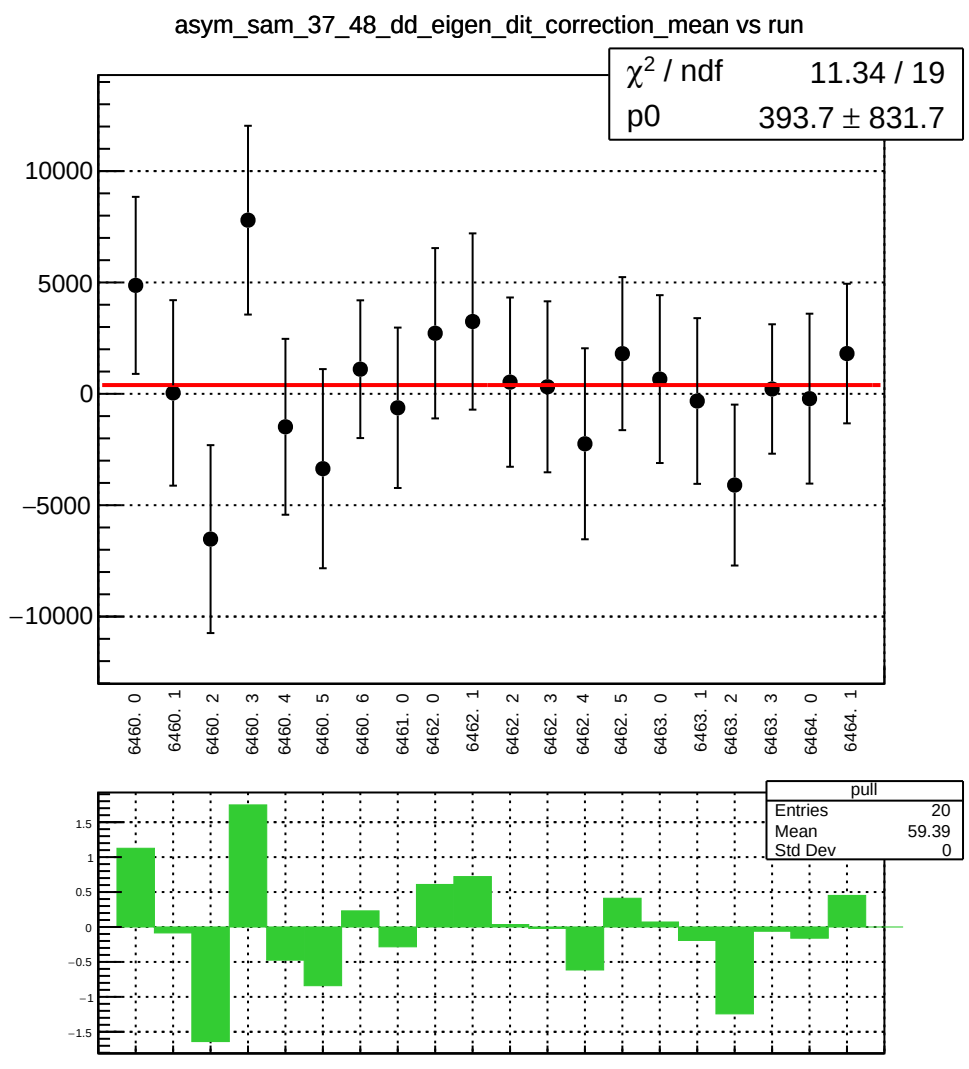

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 112.2 / 19
p0 57.59 ± 0.09048
61
60
59
58
57
56
55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

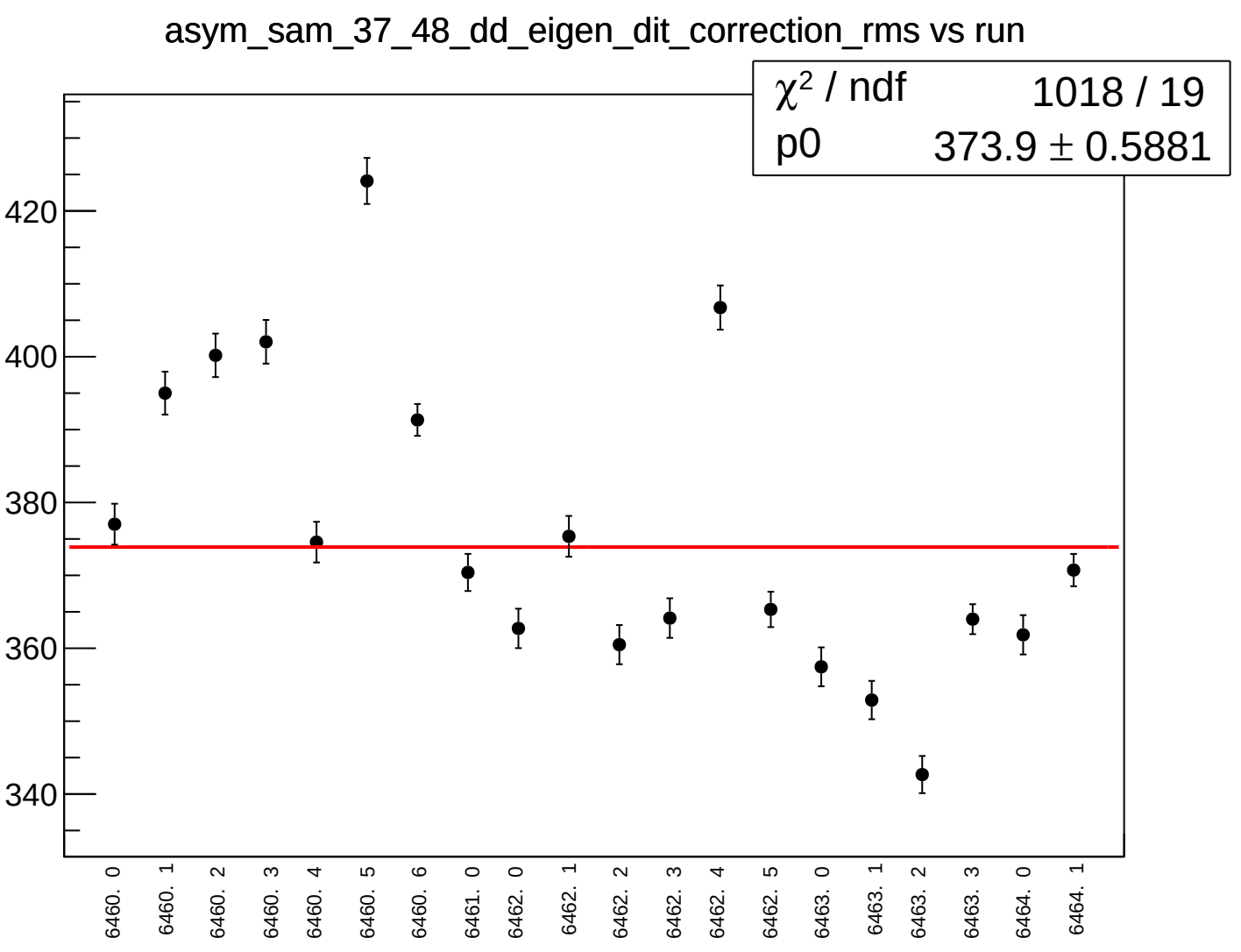

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 11.34 / 19
p0 393.7 ± 831.7
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01061
Std Dev 0.7528
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

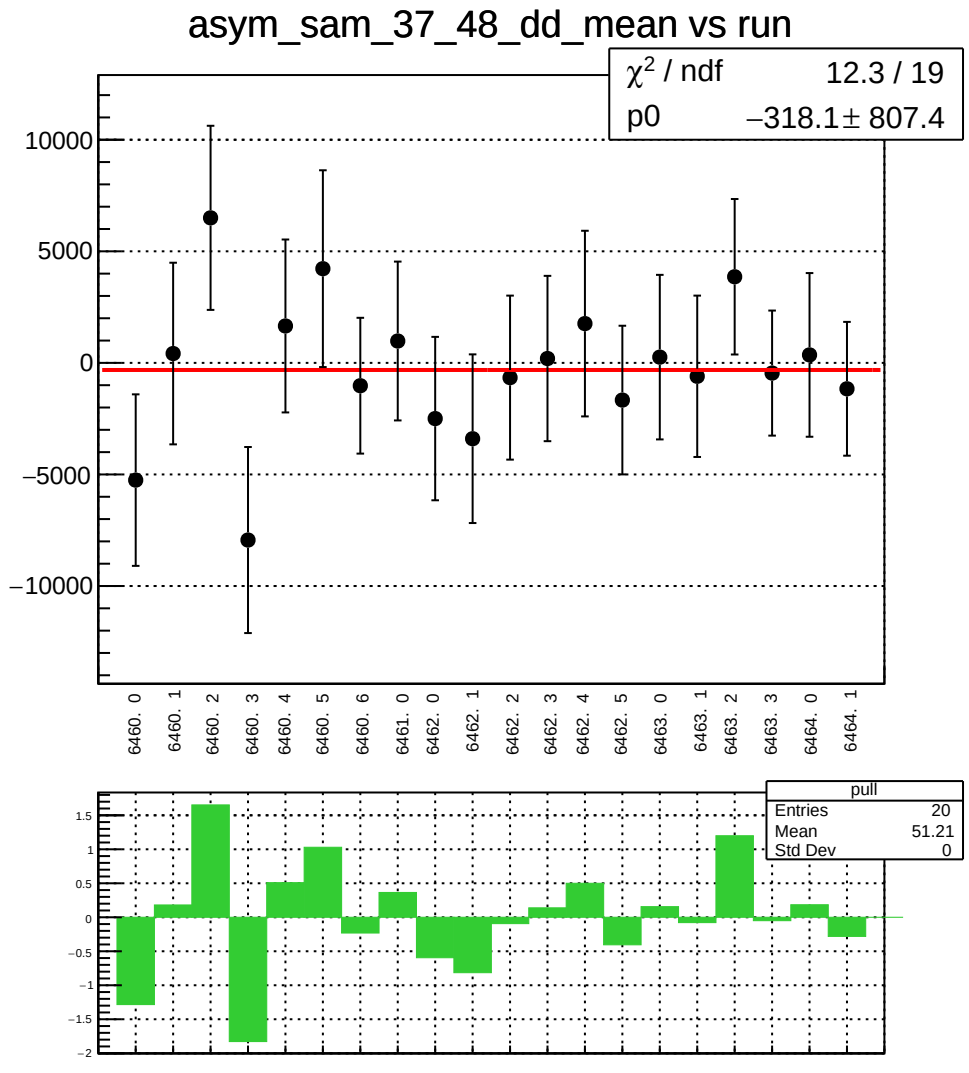

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1018 / 19
p0 373.9 ± 0.5881
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

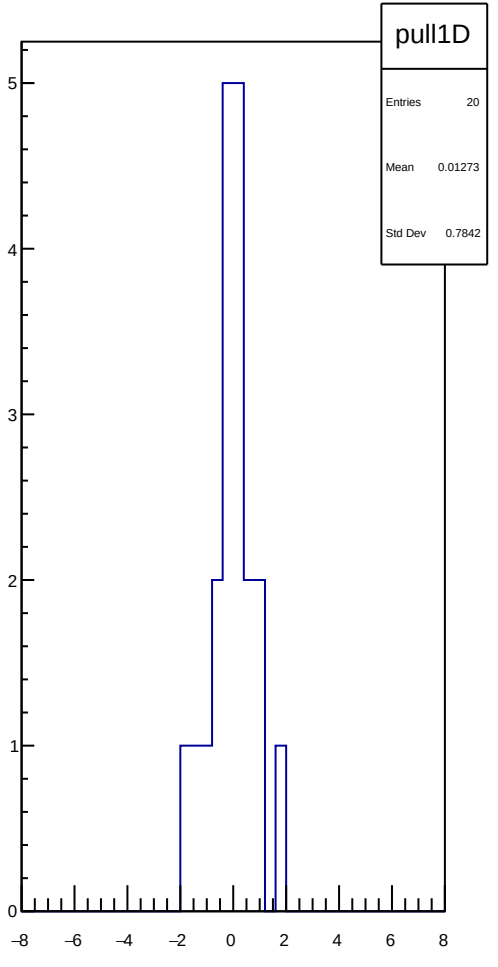

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 11.52 / 19
p0 92.29 ± 128
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 110.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.001574
Std Dev 0.7589
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

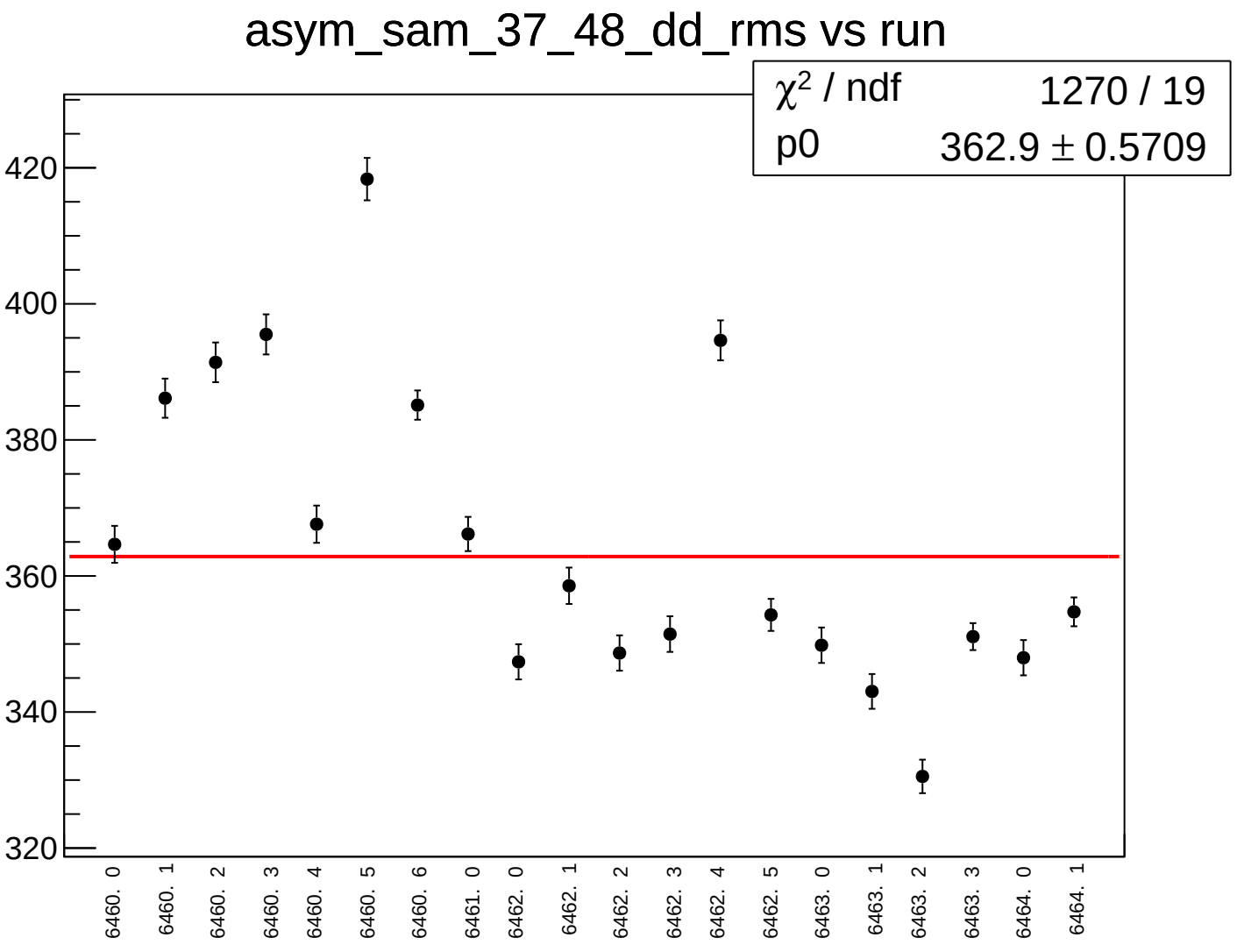

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 112.2 / 19
p0 57.59 ± 0.09048
61
60
59
58
57
56
55
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

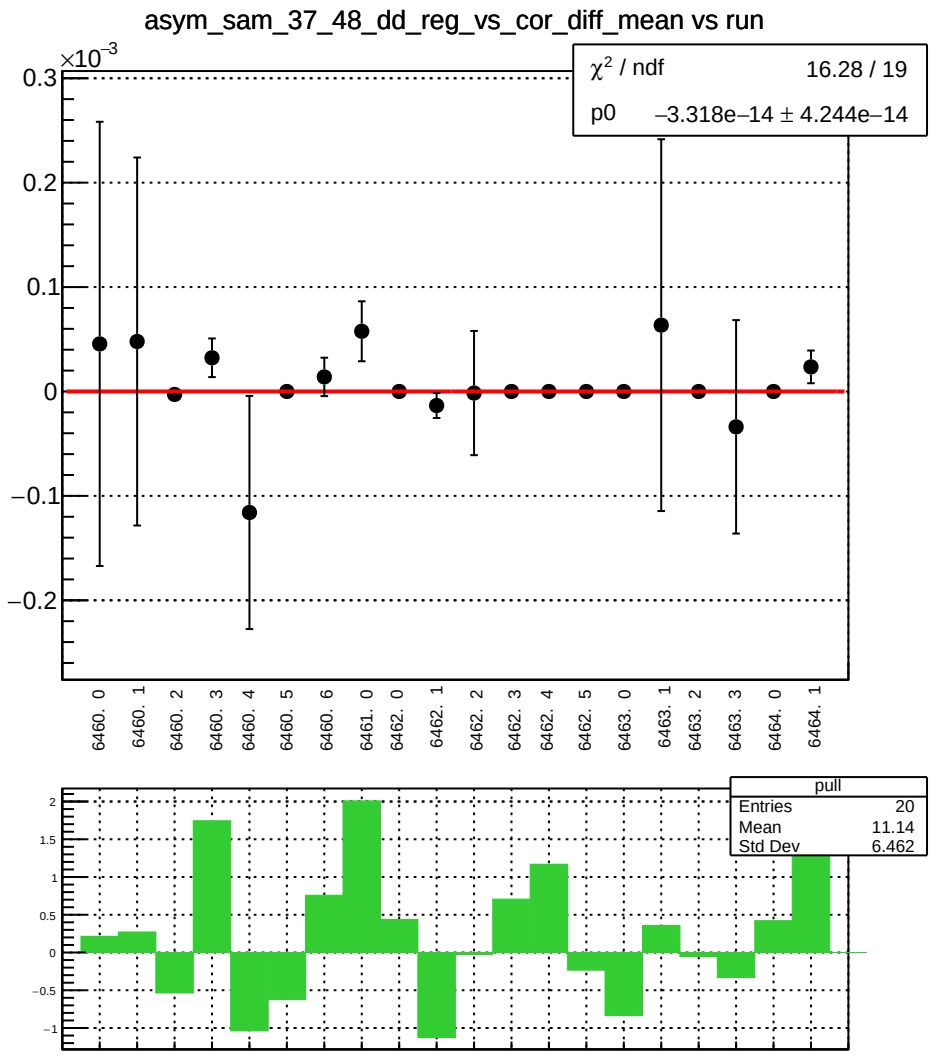

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 11.34 / 19
p0 393.7 ± 831.7
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01061
Std Dev 0.7528
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

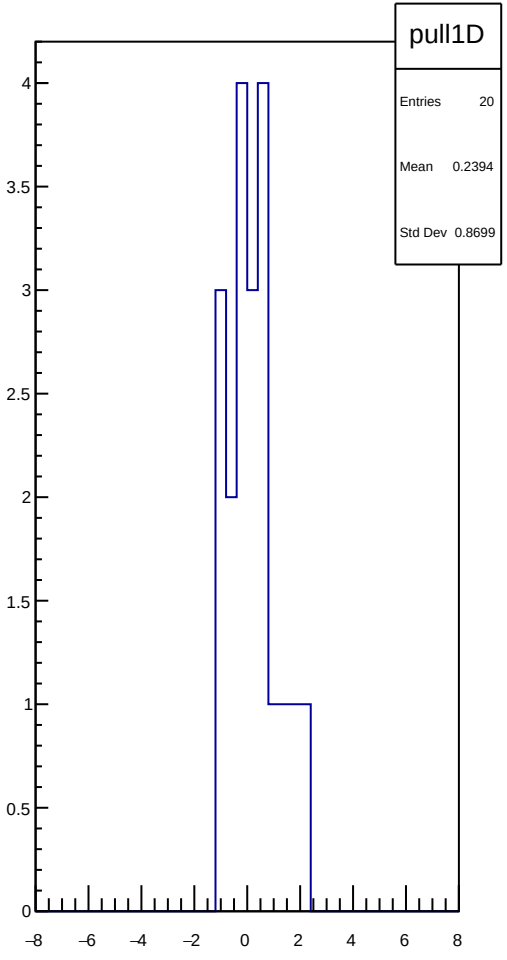

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1018 / 19
p0 373.9 ± 0.5881
420
400
380
360
340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

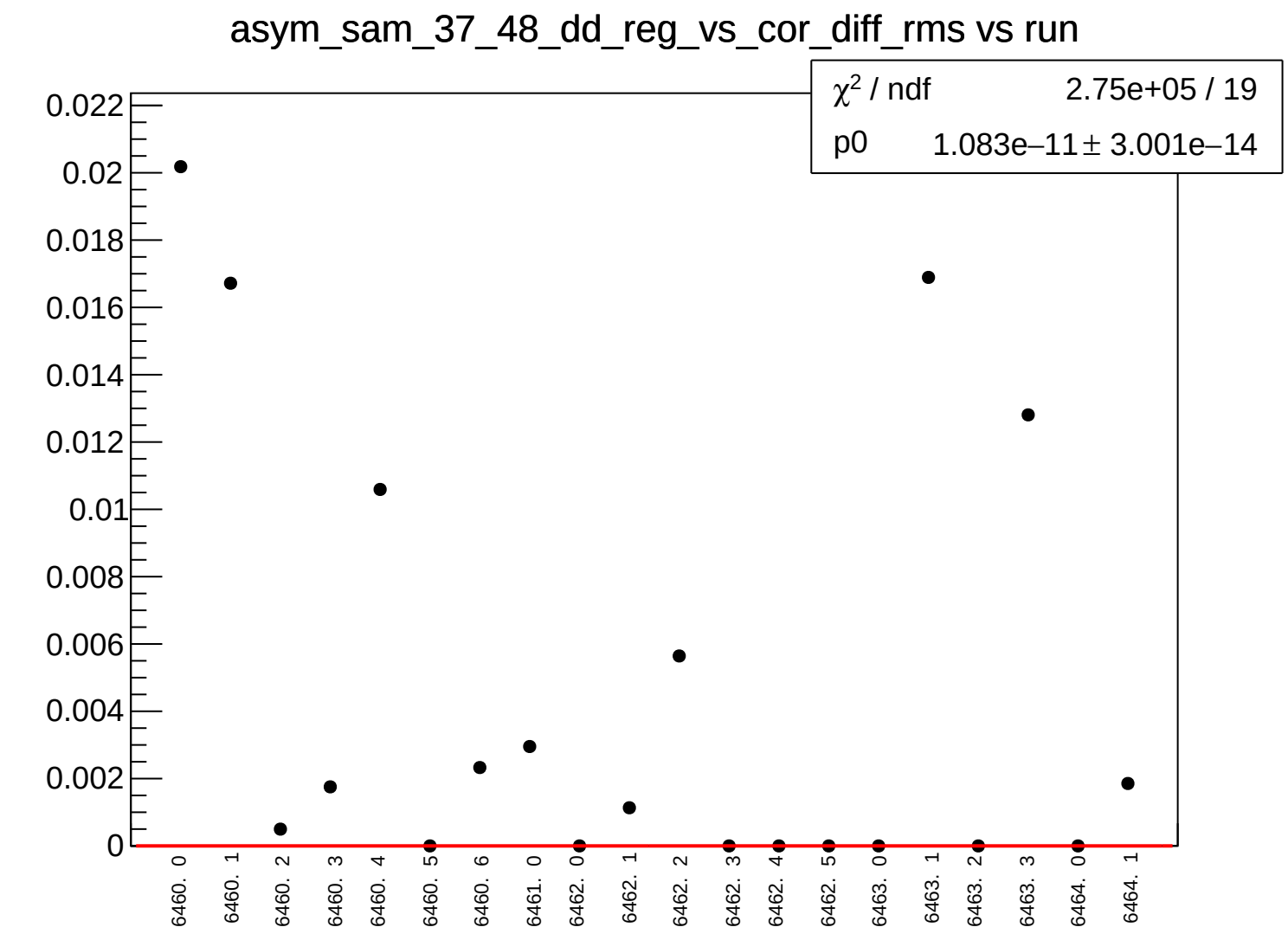

asym_sam_37_48_dd_mean vs run
χ² / ndf 12.3 / 19
p0 −318.1± 807.4
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 51.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

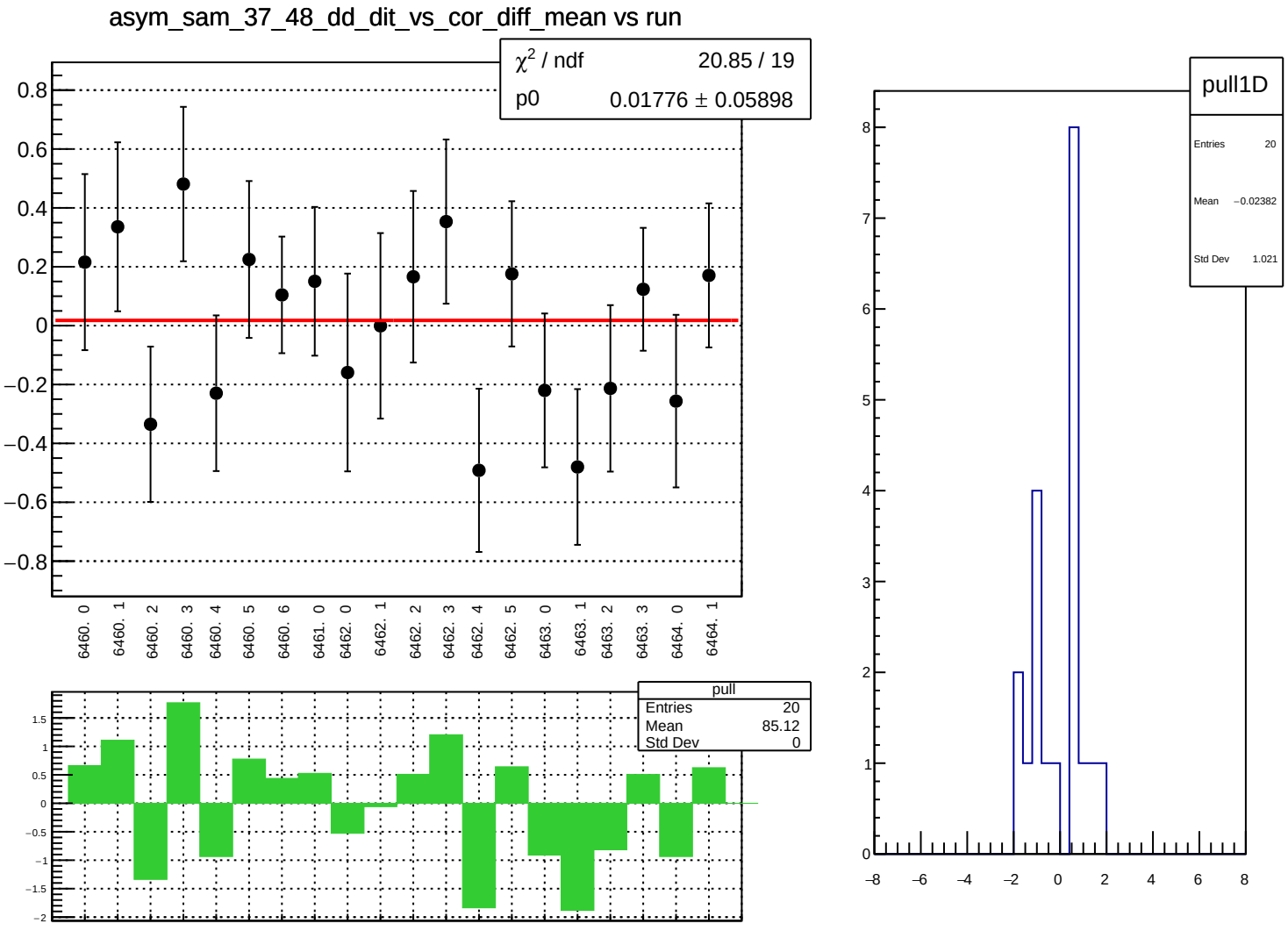

pull1D
Entries 20
Mean 0.01273
Std Dev 0.7842
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

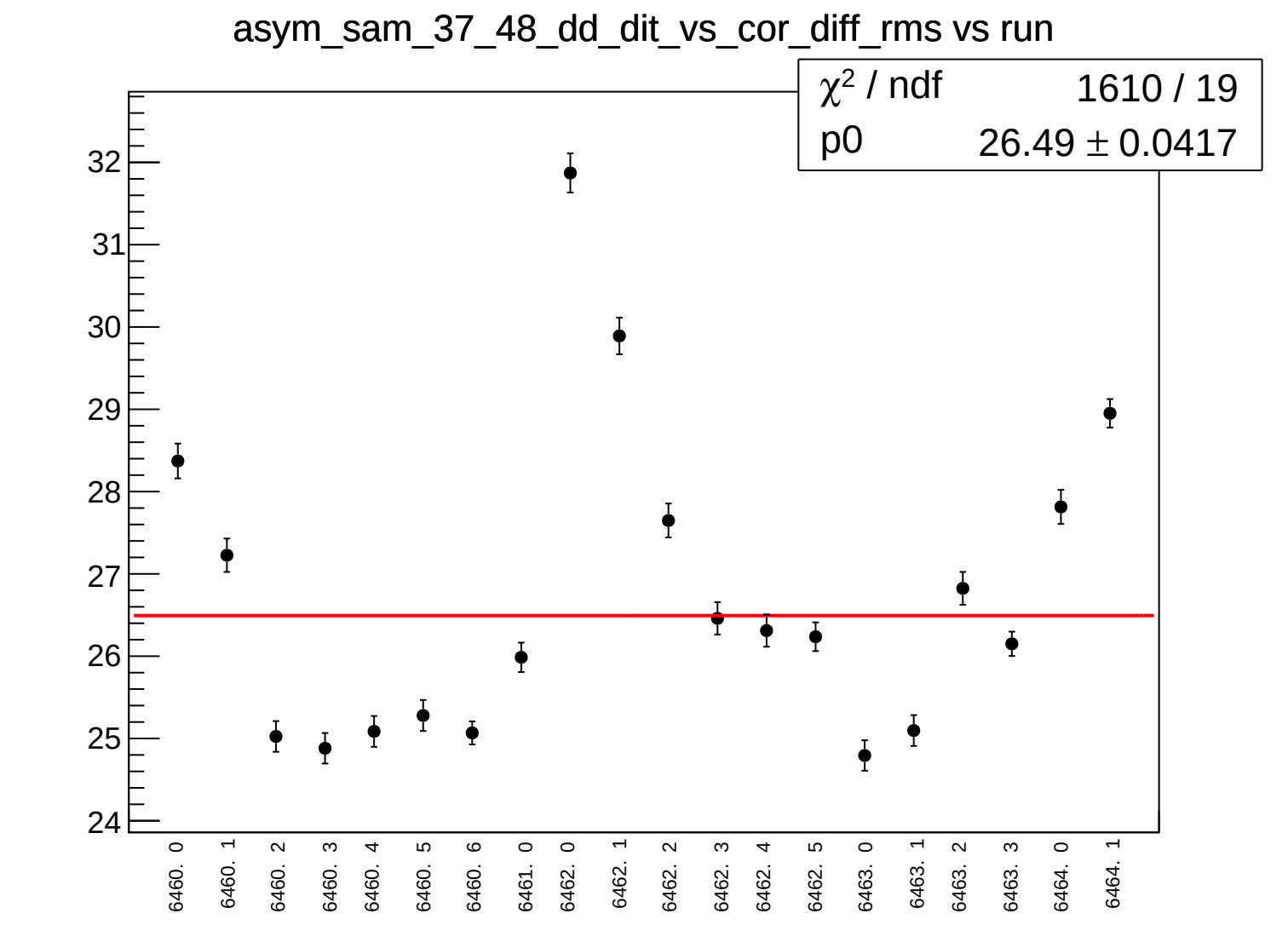

asym_sam_37_48_dd_rms vs run
χ² / ndf 1270 / 19
p0 362.9 ± 0.5709
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

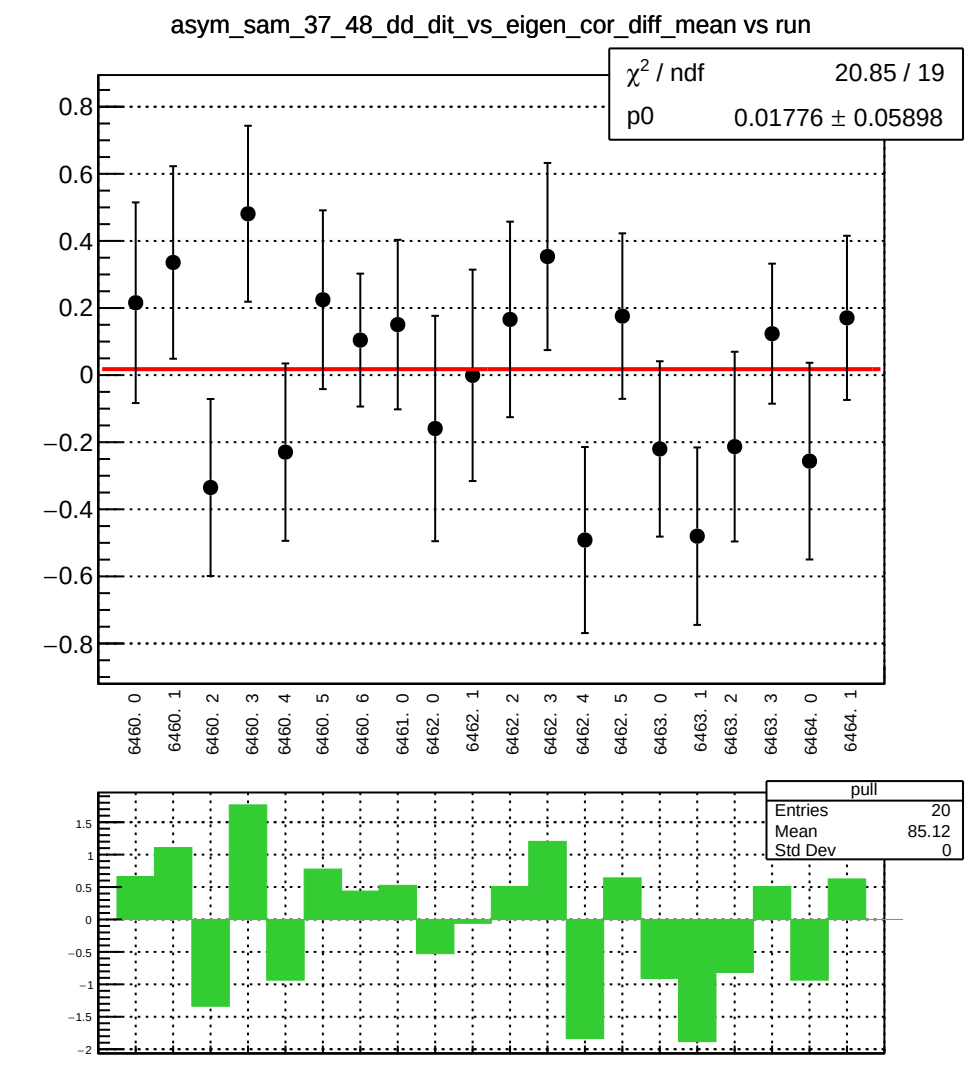

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 16.28 / 19
p0 −3.318e−14 ± 4.244e−14
0.3
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 11.14
Std Dev 6.462
2
1.5
1
0.5
0
−0.5
−1

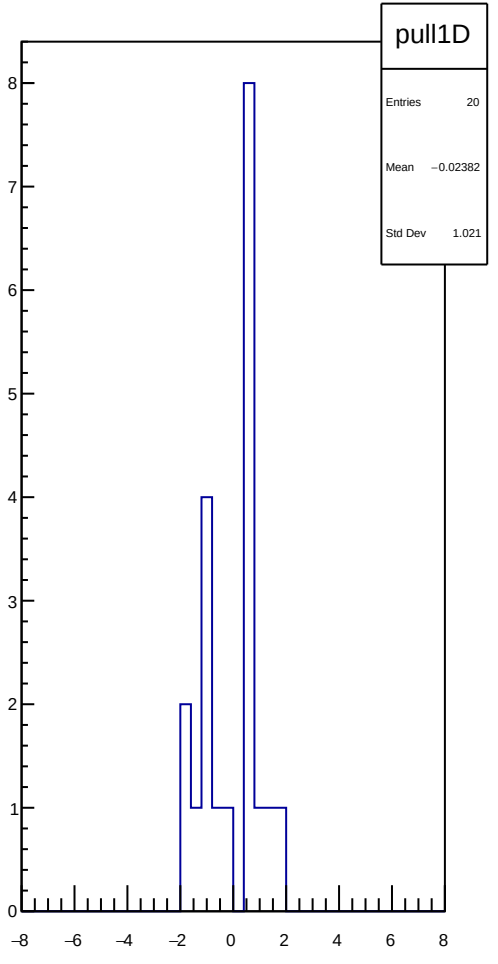

pull1D
Entries 20
Mean 0.2394
Std Dev 0.8699
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

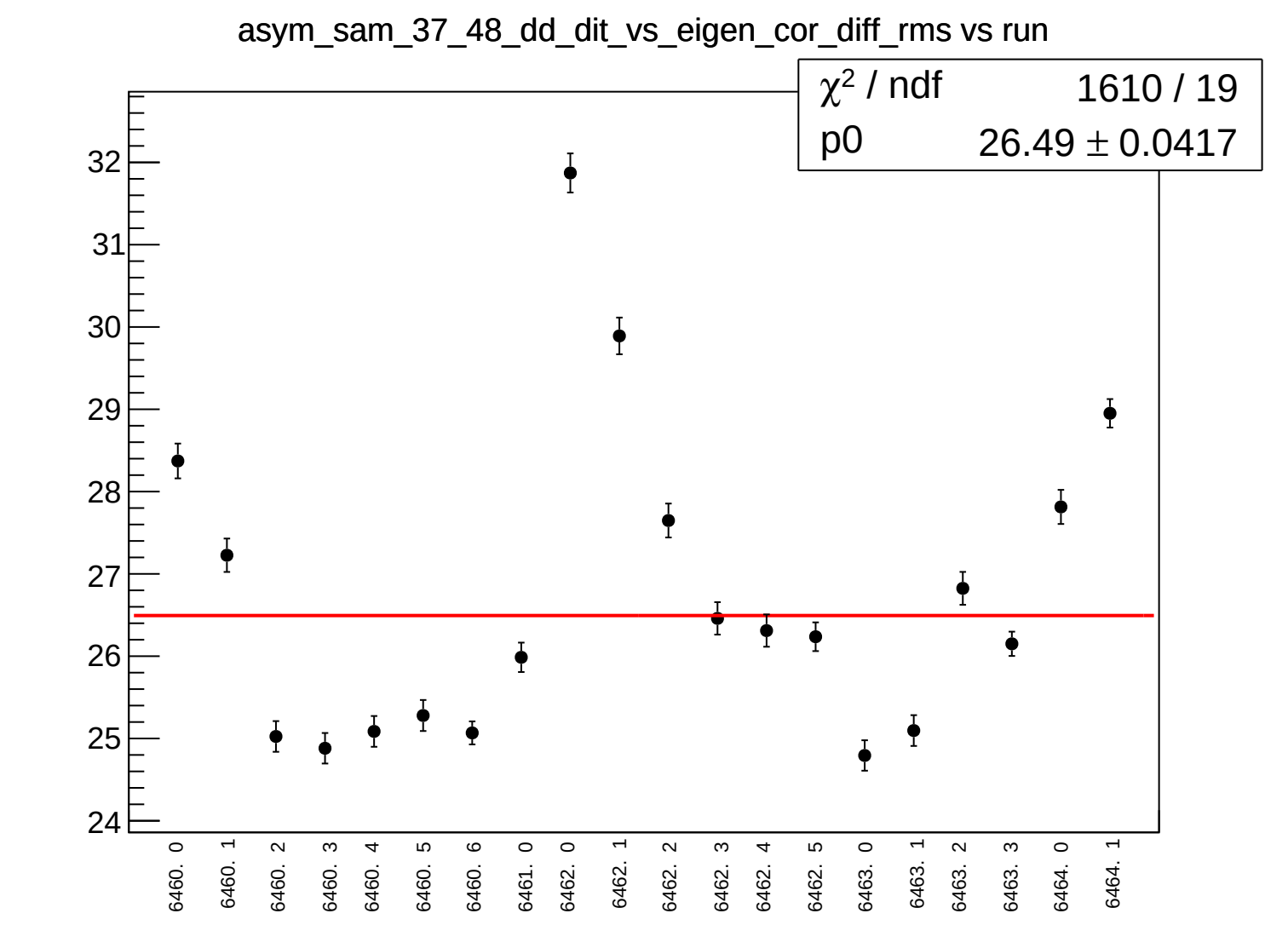

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.75e+05 / 19
p0 1.083e−11 ± 3.001e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

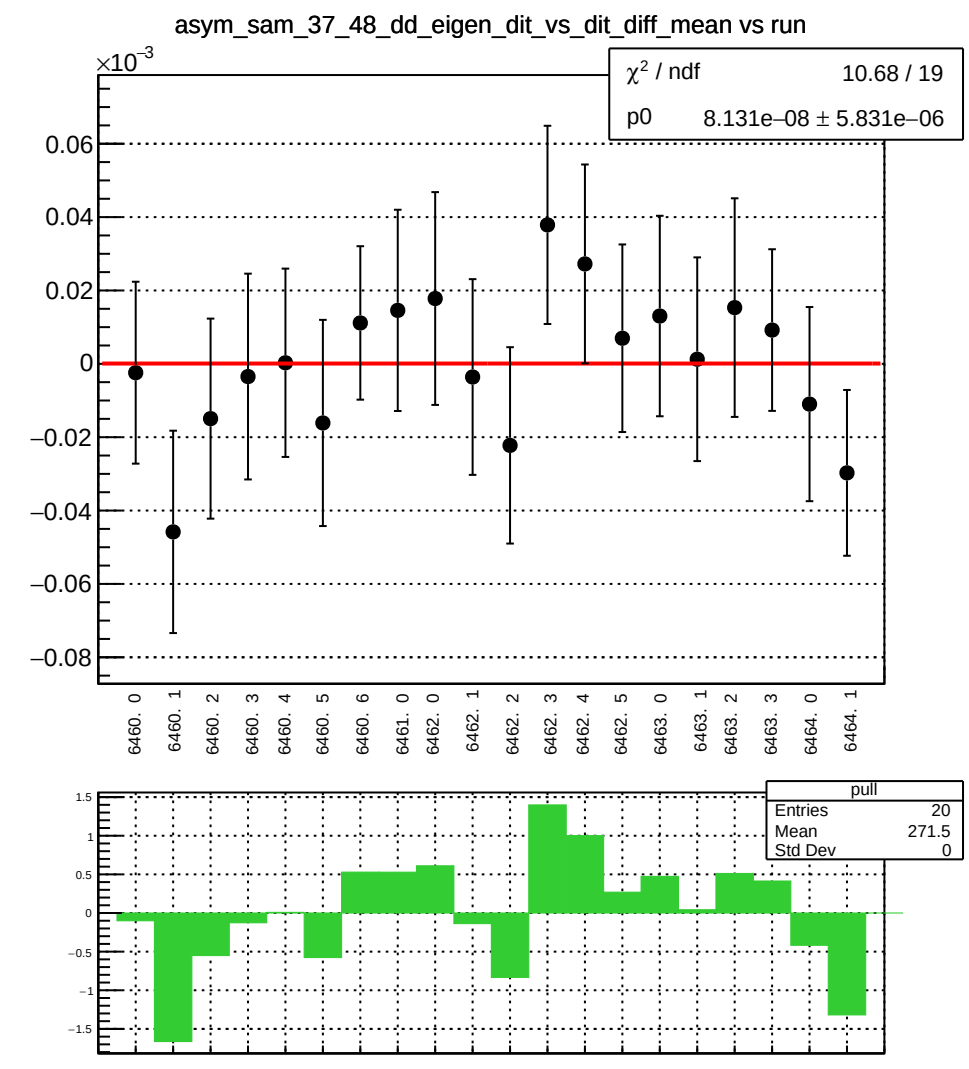

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 20.85 / 19
p0 0.01776 ± 0.05898
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 85.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.02382
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

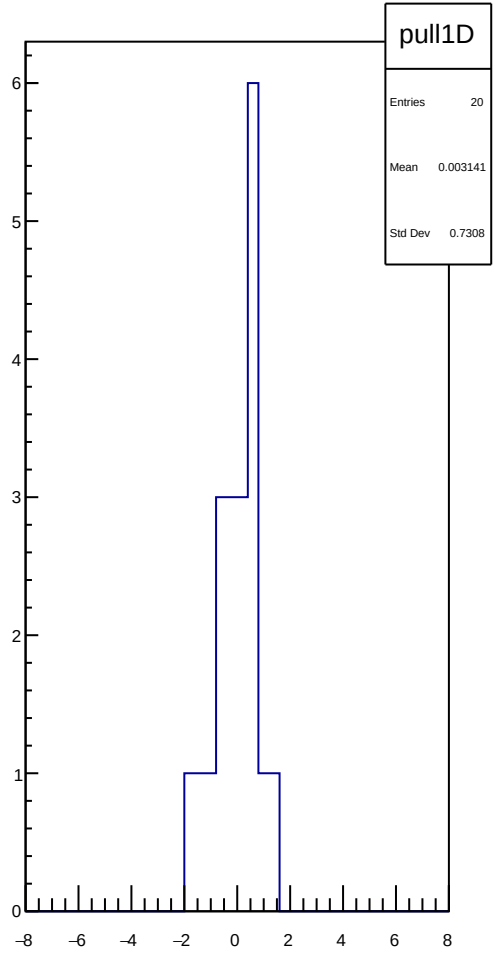

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1610 / 19
p0 26.49 ± 0.0417
32
31
30
29
28
27
26
25
24
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

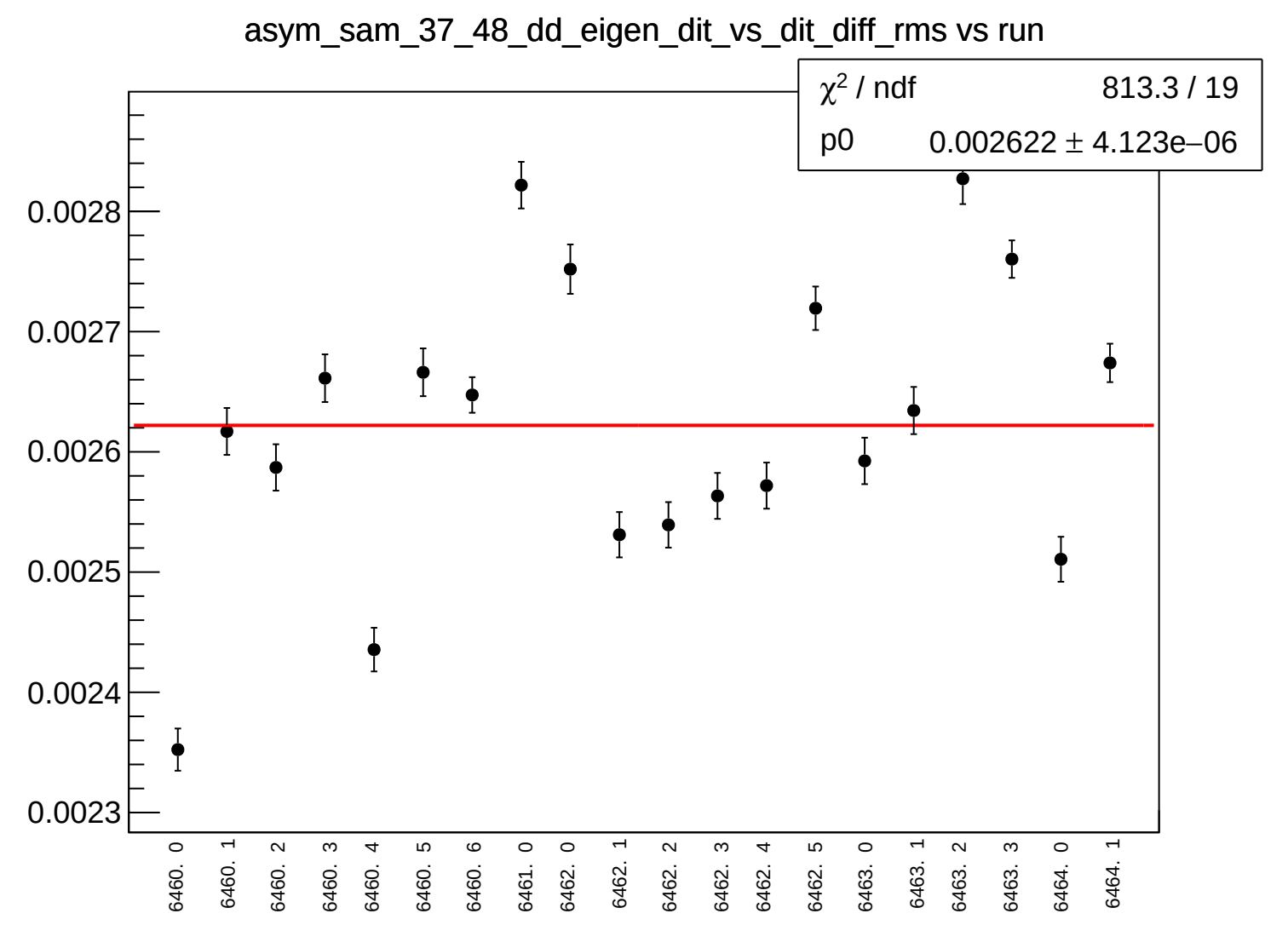

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.85 / 19
p0 0.01776 ± 0.05898
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 85.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

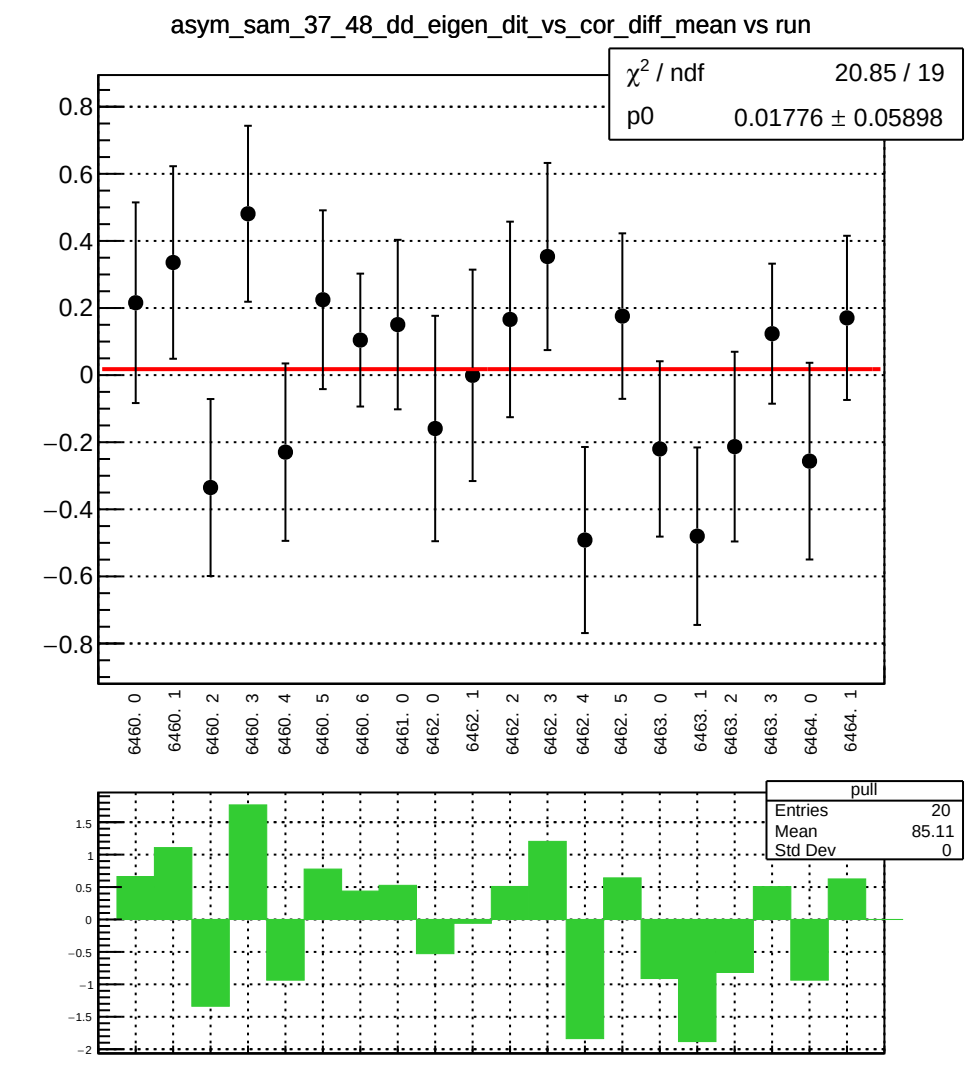

pull1D
Entries 20
Mean −0.02382
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

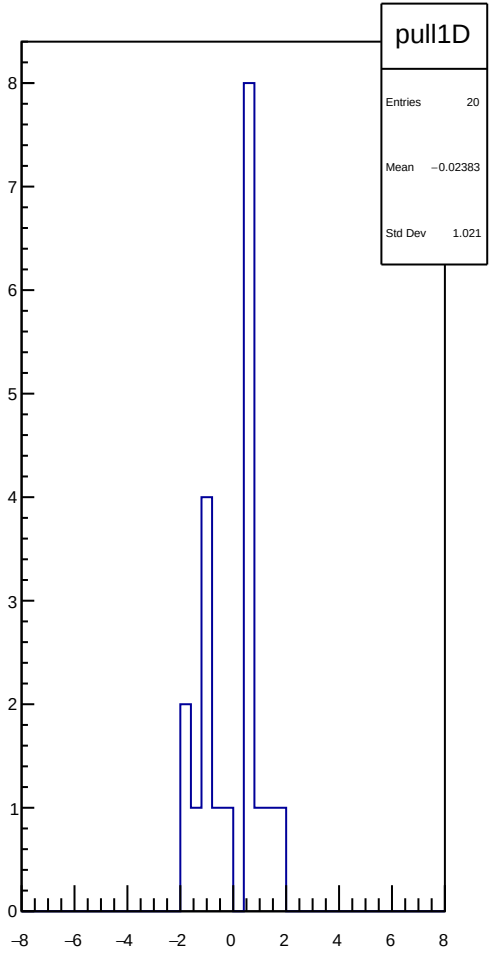

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1610 / 19
p0 26.49 ± 0.0417
32
31
30
29
28
27
26
25
24
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

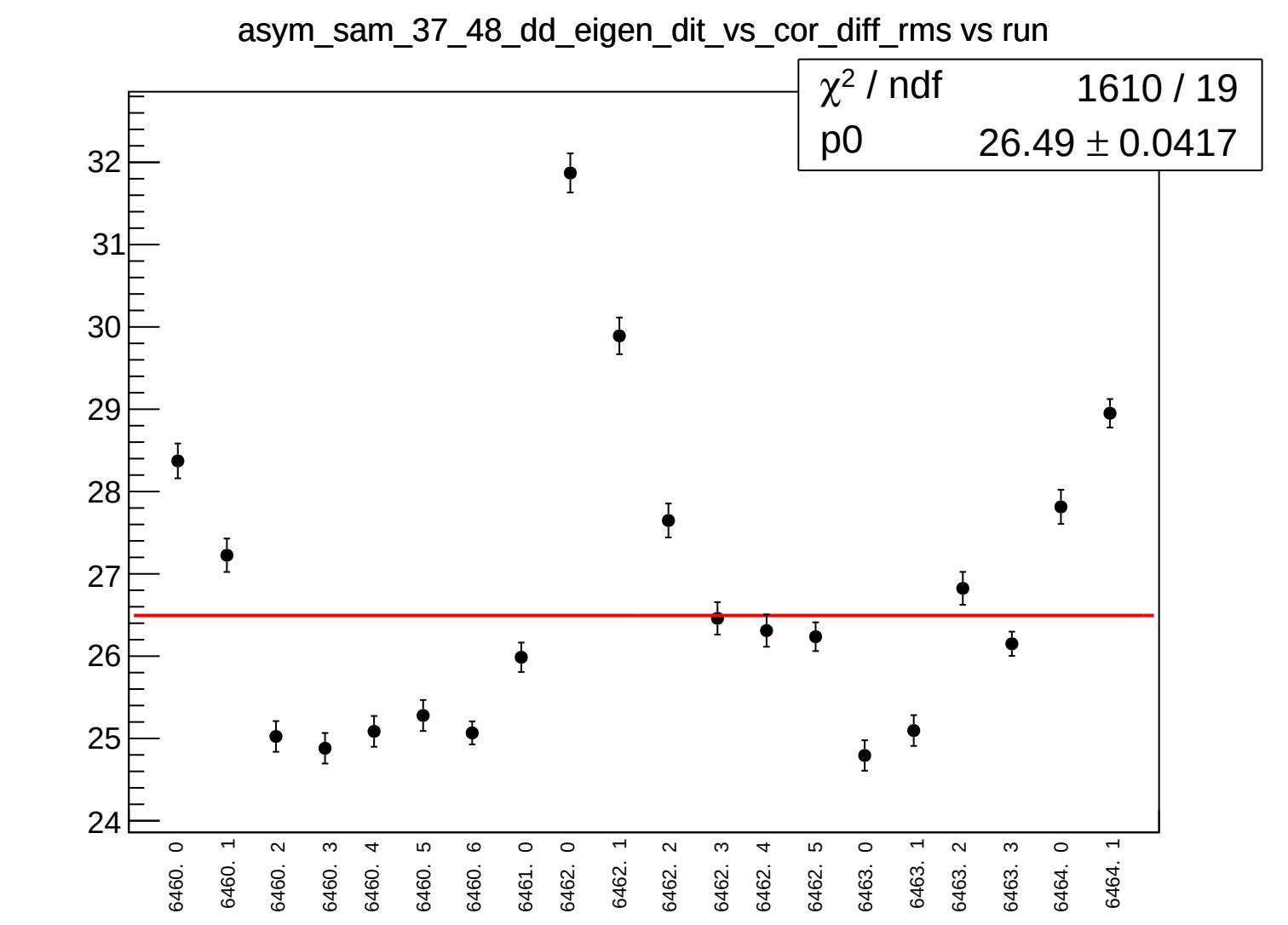

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 10.68 / 19
p0 8.131e−08 ± 5.831e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 271.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

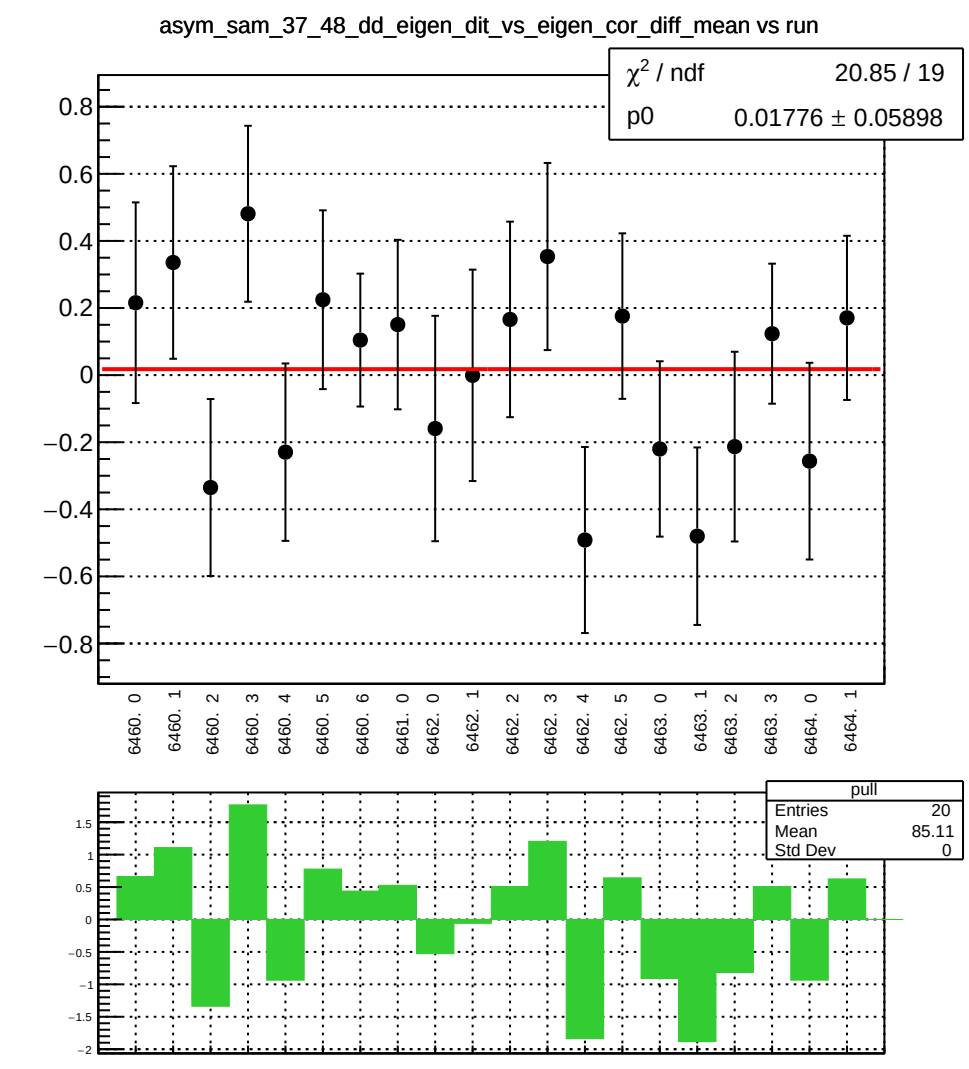

pull1D
Entries 20
Mean 0.003141
Std Dev 0.7308
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

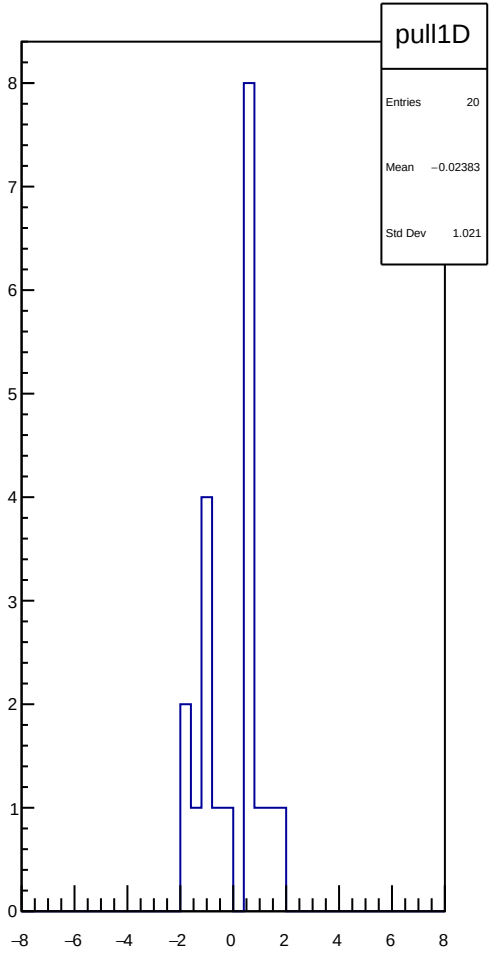

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 813.3 / 19
p0 0.002622 ± 4.123e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

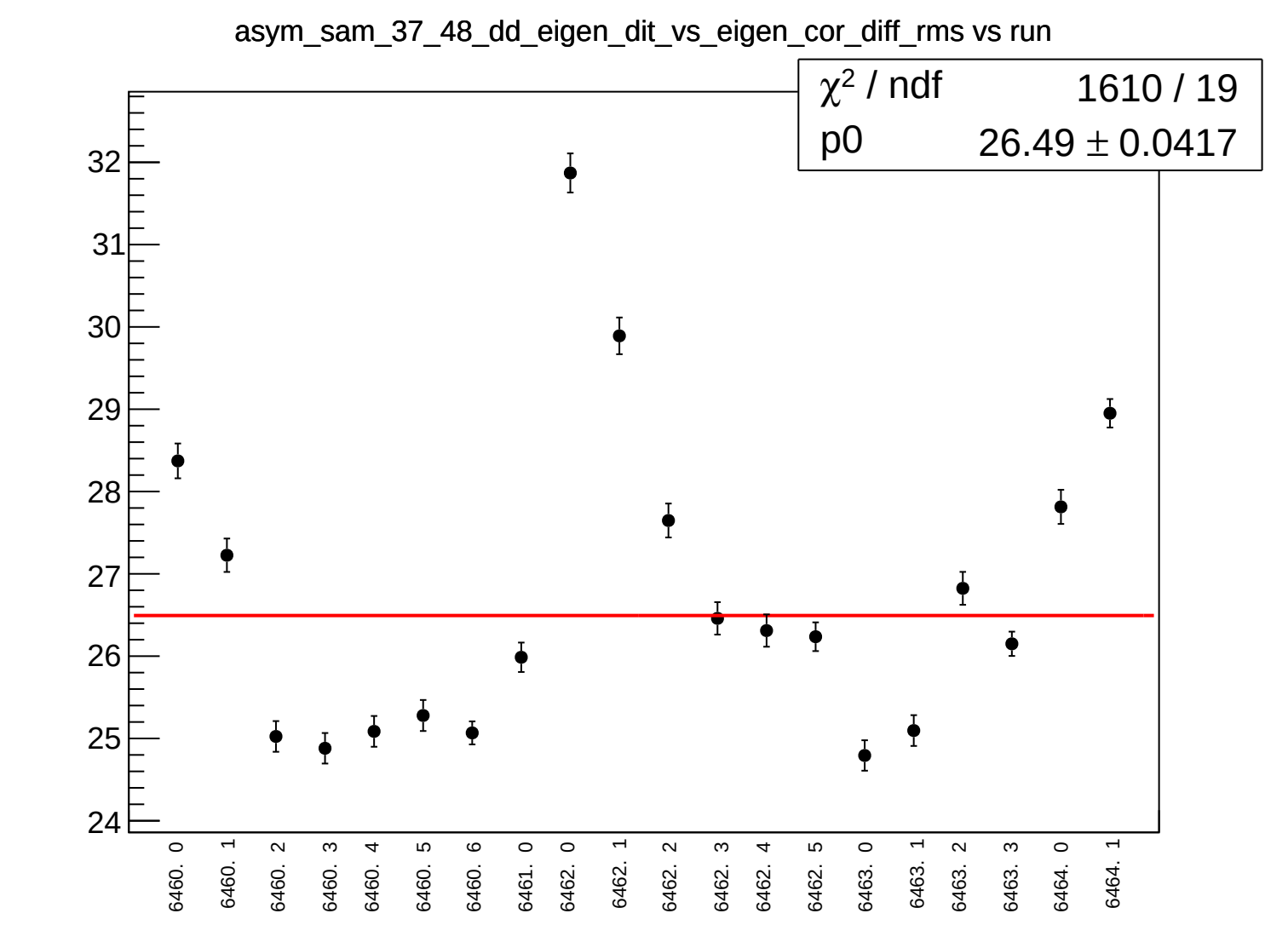

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.85 / 19
p0 0.01776 ± 0.05898
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 85.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

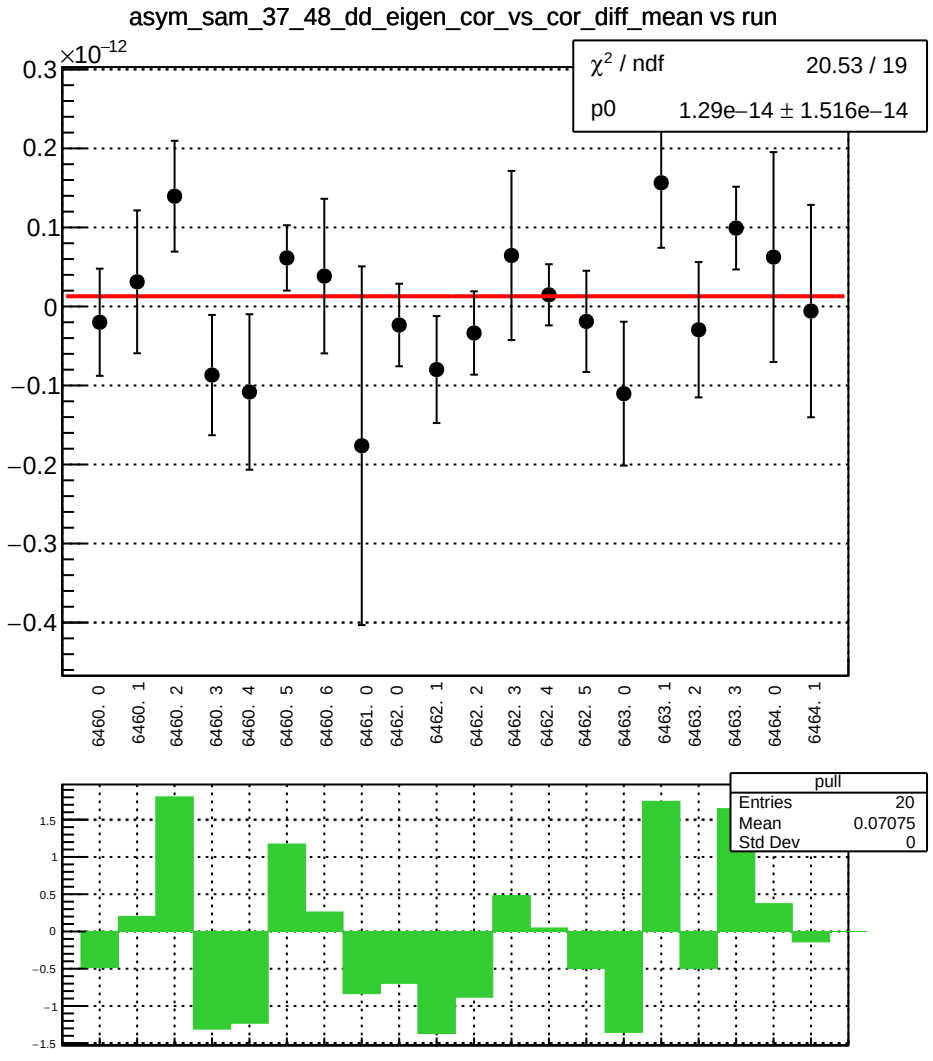

pull1D
Entries 20
Mean −0.02383
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

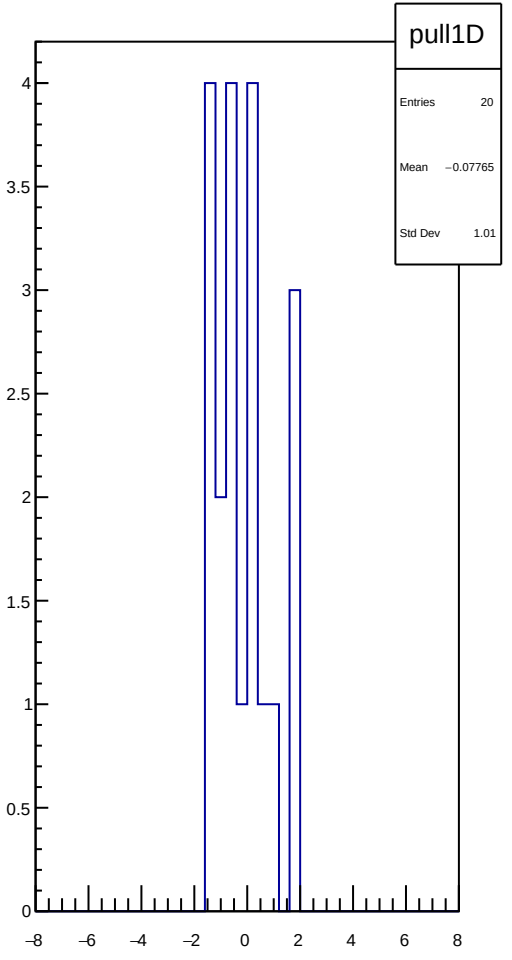

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1610 / 19
p0 26.49 ± 0.0417
32
31
30
29
28
27
26
25
24
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

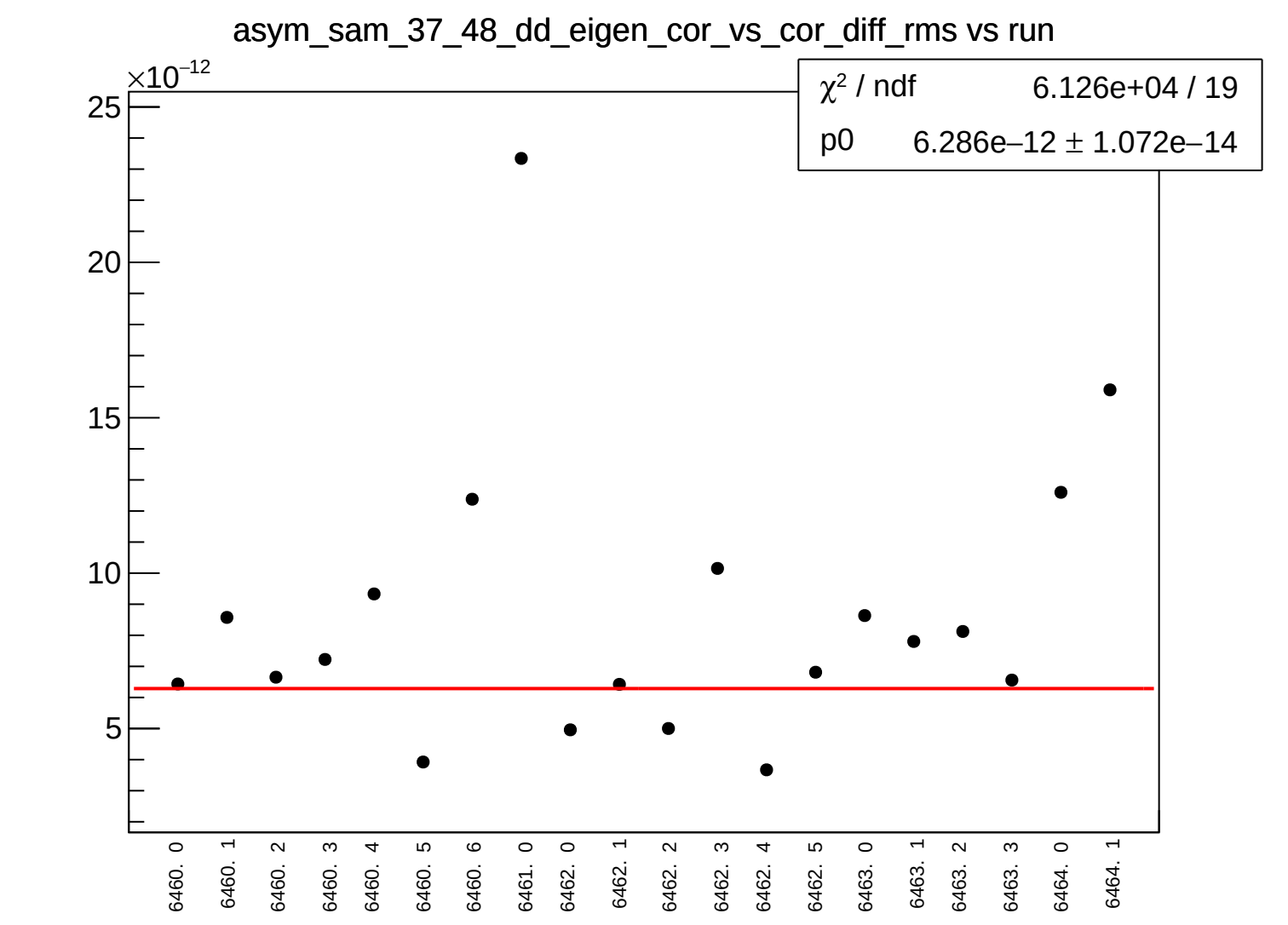

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.85 / 19
p0 0.01776 ± 0.05898
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 85.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

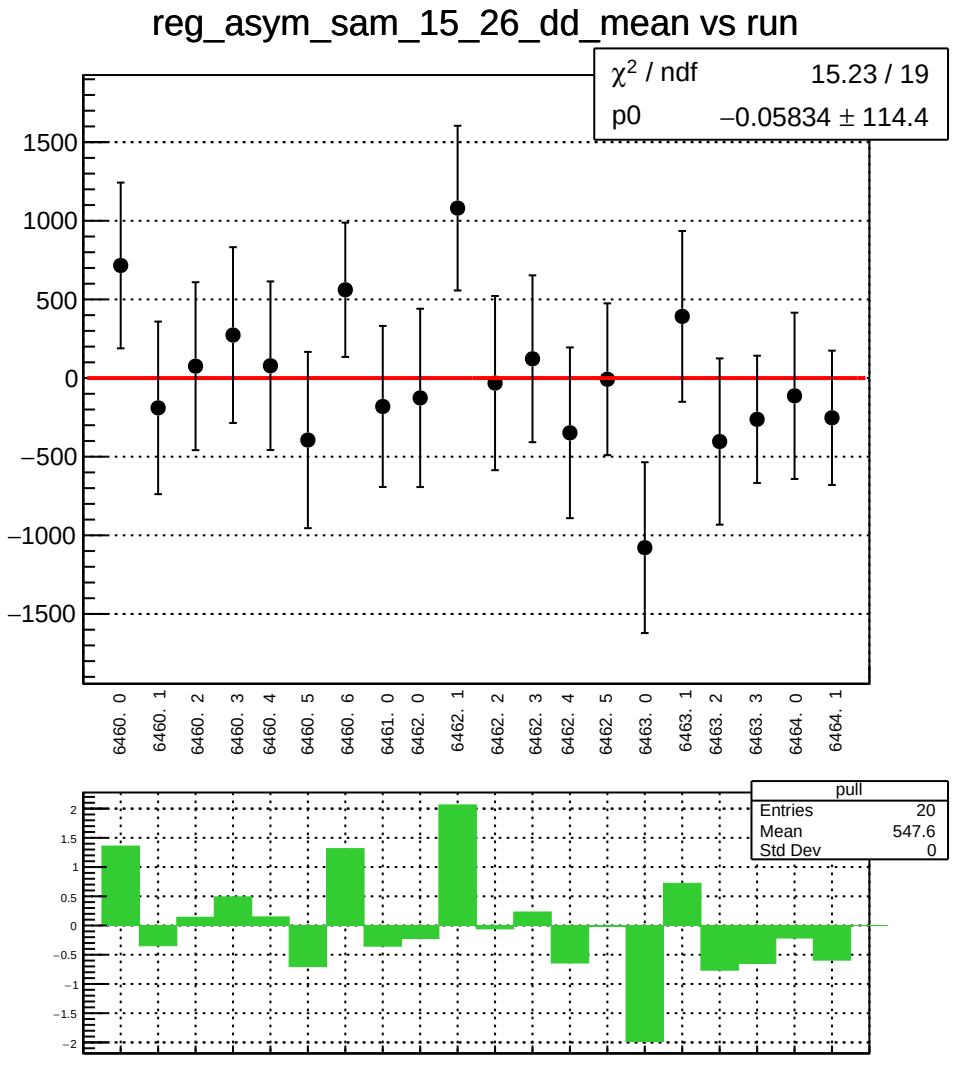

pull1D
Entries 20
Mean −0.02383
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

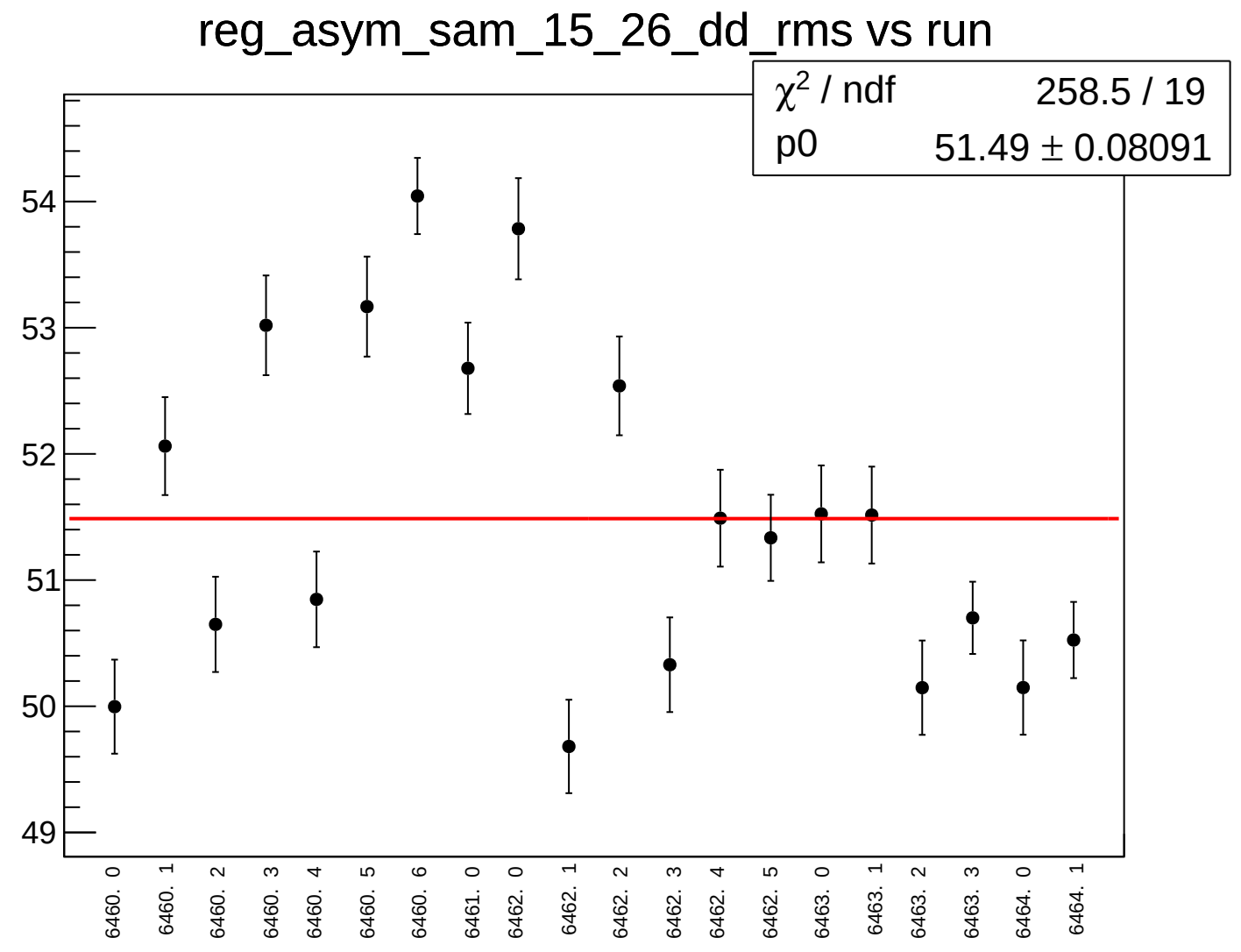

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1610 / 19
p0 26.49 ± 0.0417
32
31
30
29
28
27
26
25
24
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

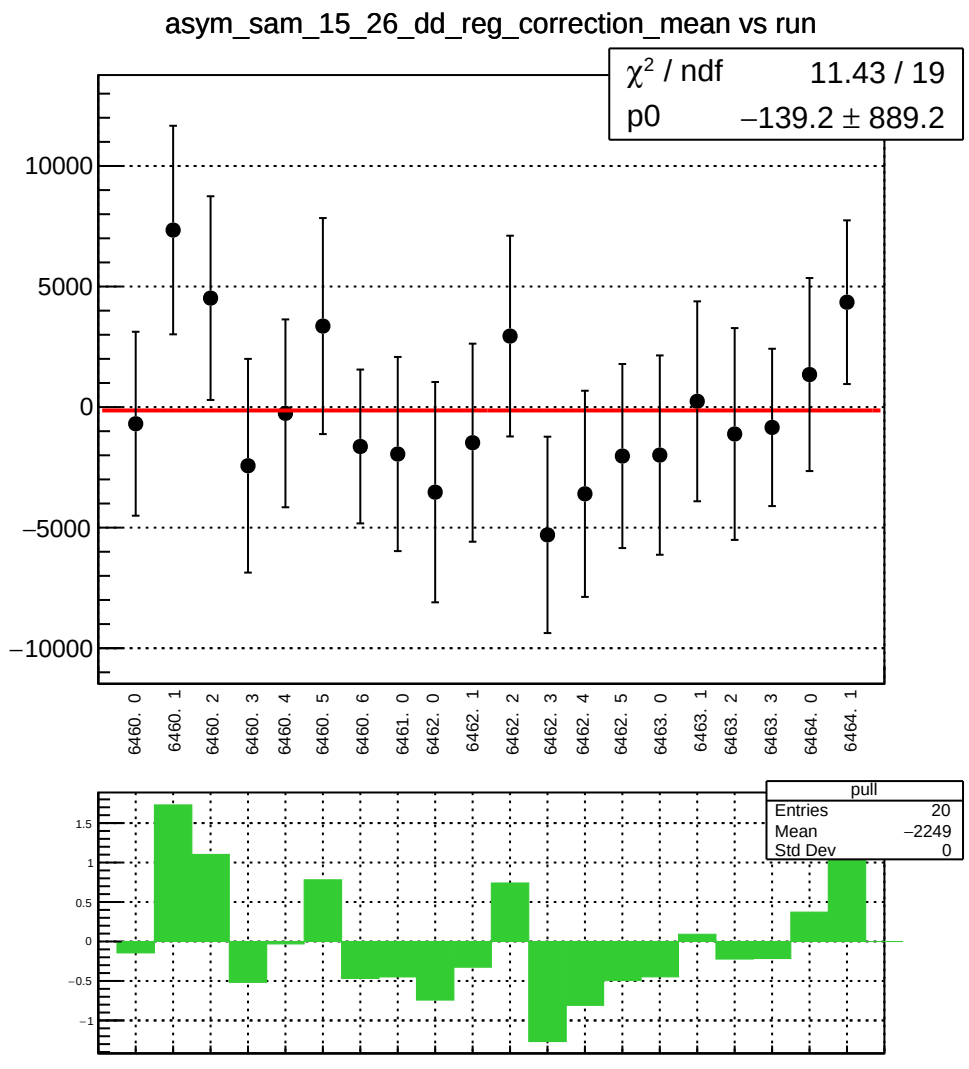

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.53 / 19
p0 1.29e−14 ± 1.516e−14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 0.07075
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

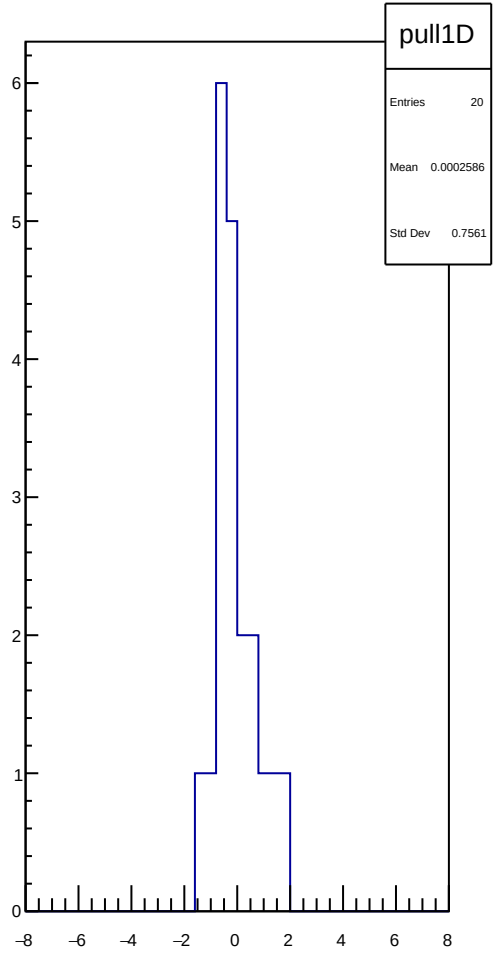

pull1D
Entries 20
Mean −0.07765
Std Dev 1.01
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

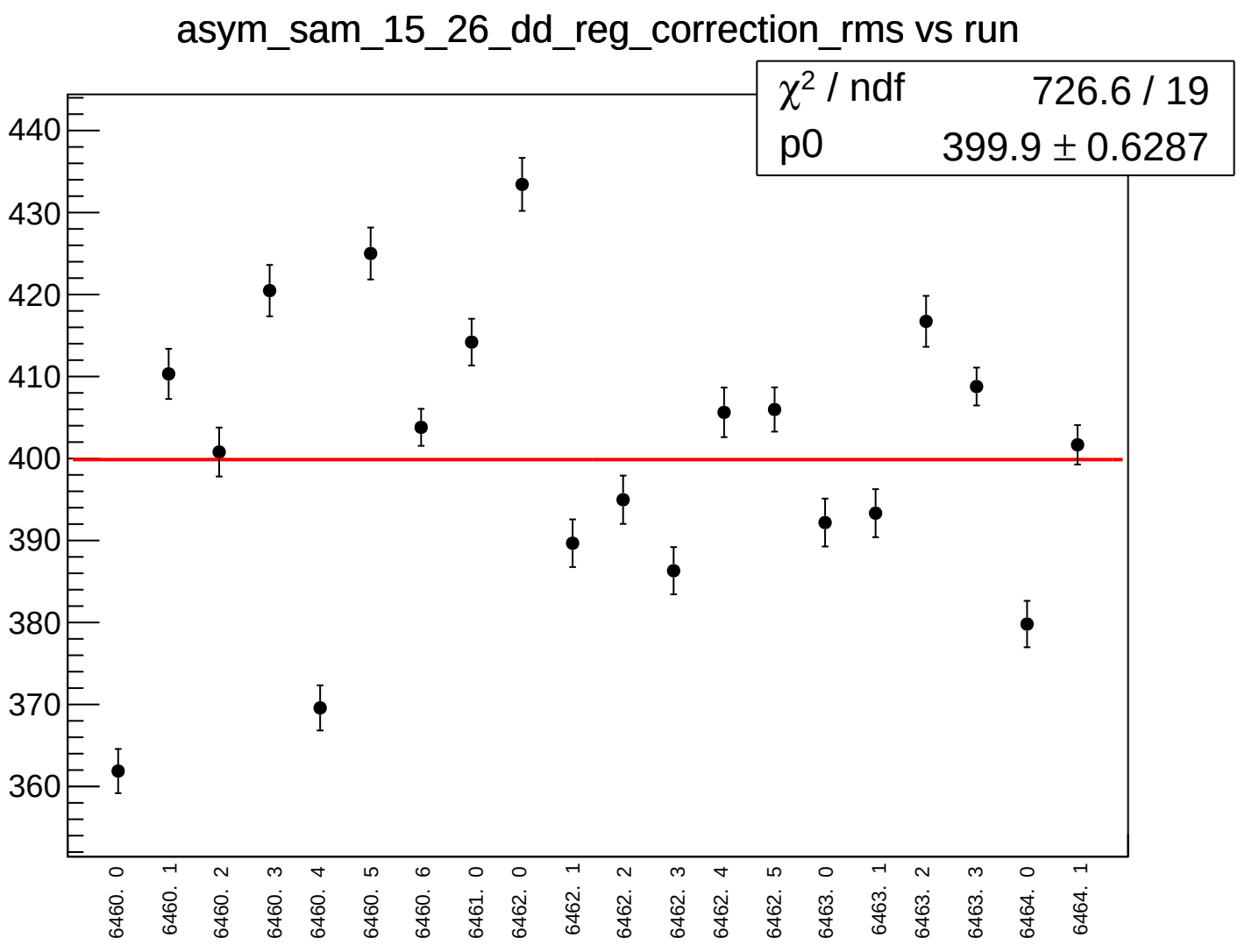

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 6.126e+04 / 19
p0 6.286e−12 ± 1.072e−14
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

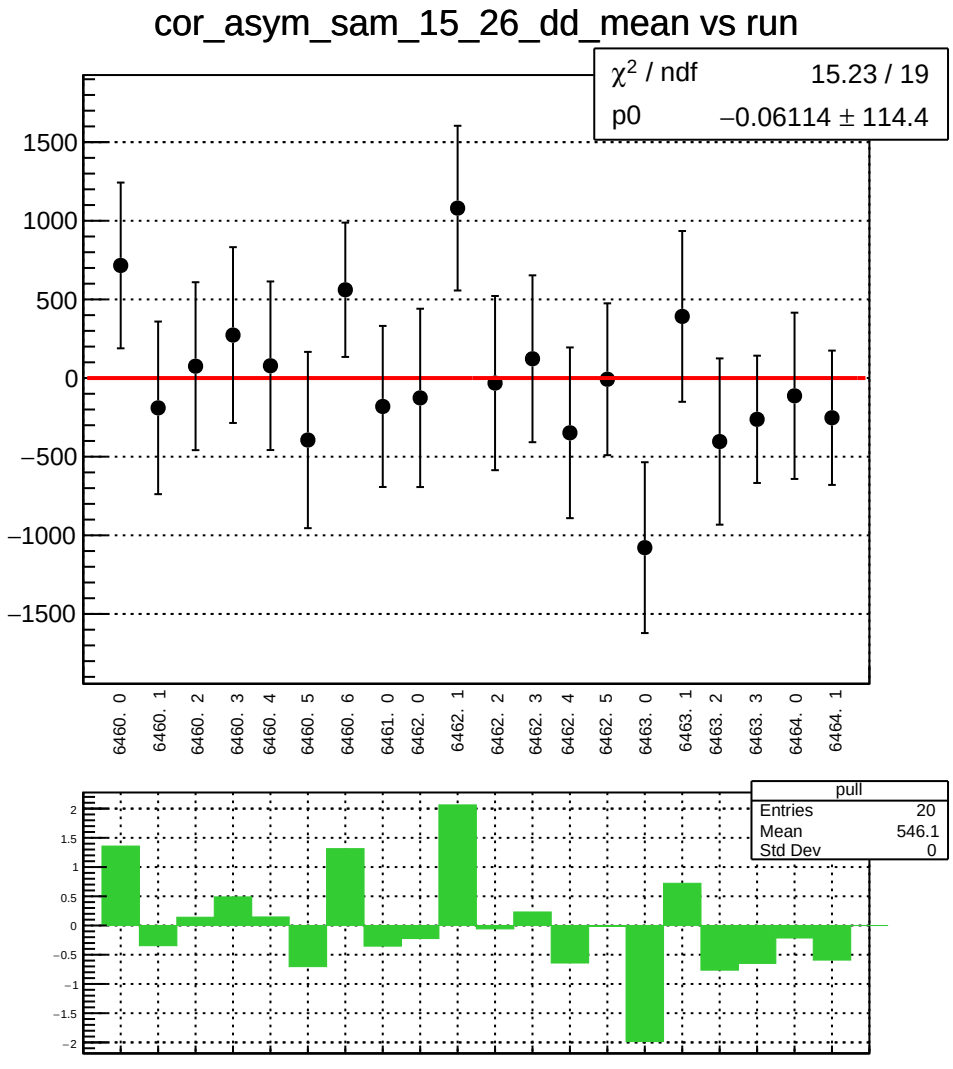

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 15.23 / 19
p0 −0.05834 ± 114.4
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 547.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.003706
Std Dev 0.8726
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

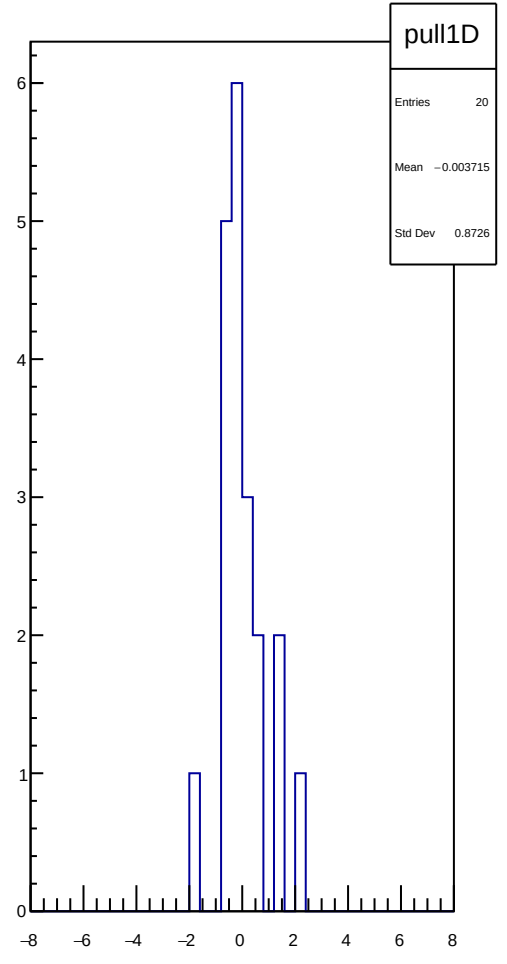

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 258.5 / 19
p0 51.49 ± 0.08091
54
53
52
51
50
49
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

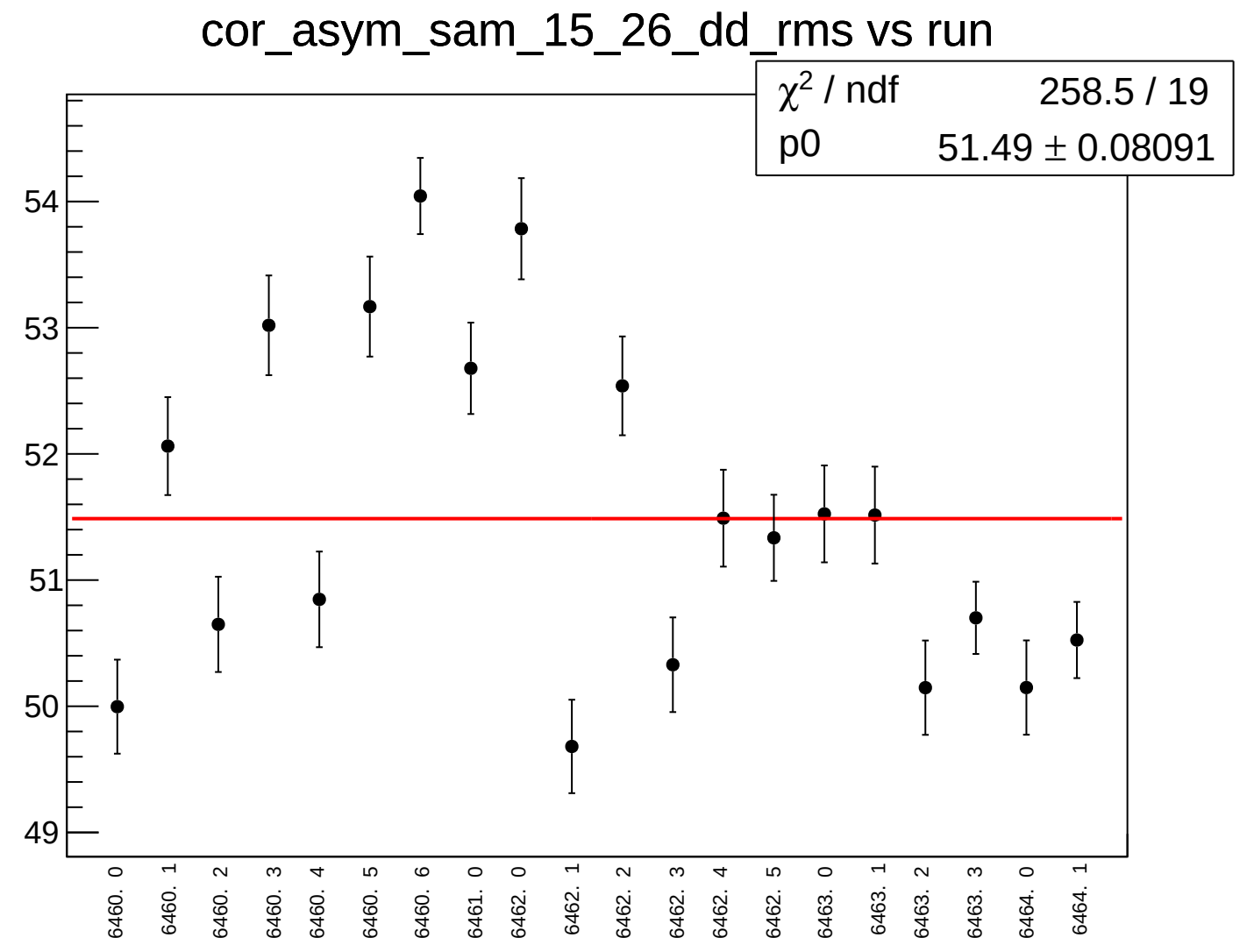

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 11.43 / 19
p0 −139.2 ± 889.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2249
Std Dev 0
1.5
1
0.5
0
−0.5
−1

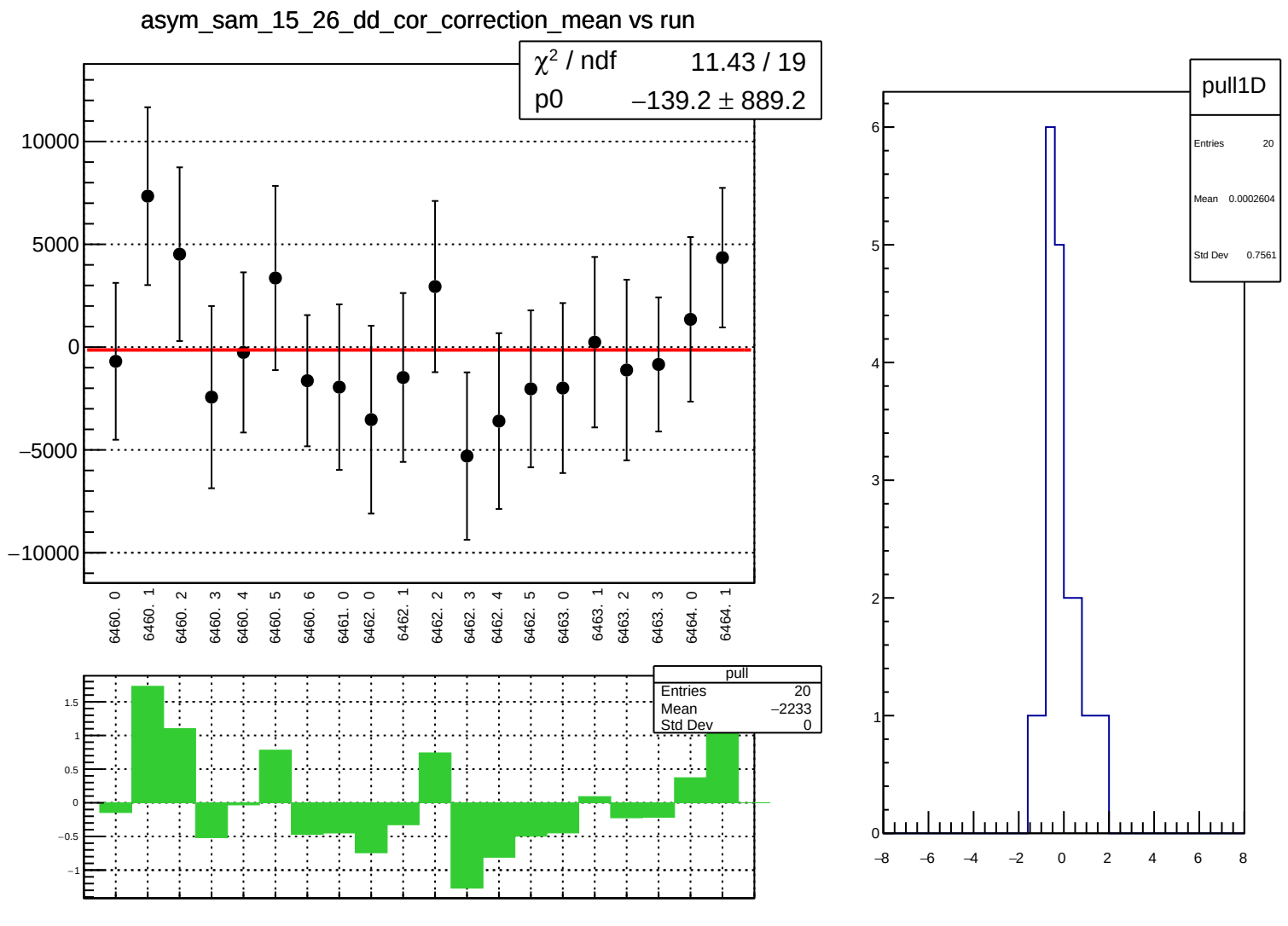

pull1D
Entries 20
Mean 0.0002586
Std Dev 0.7561
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

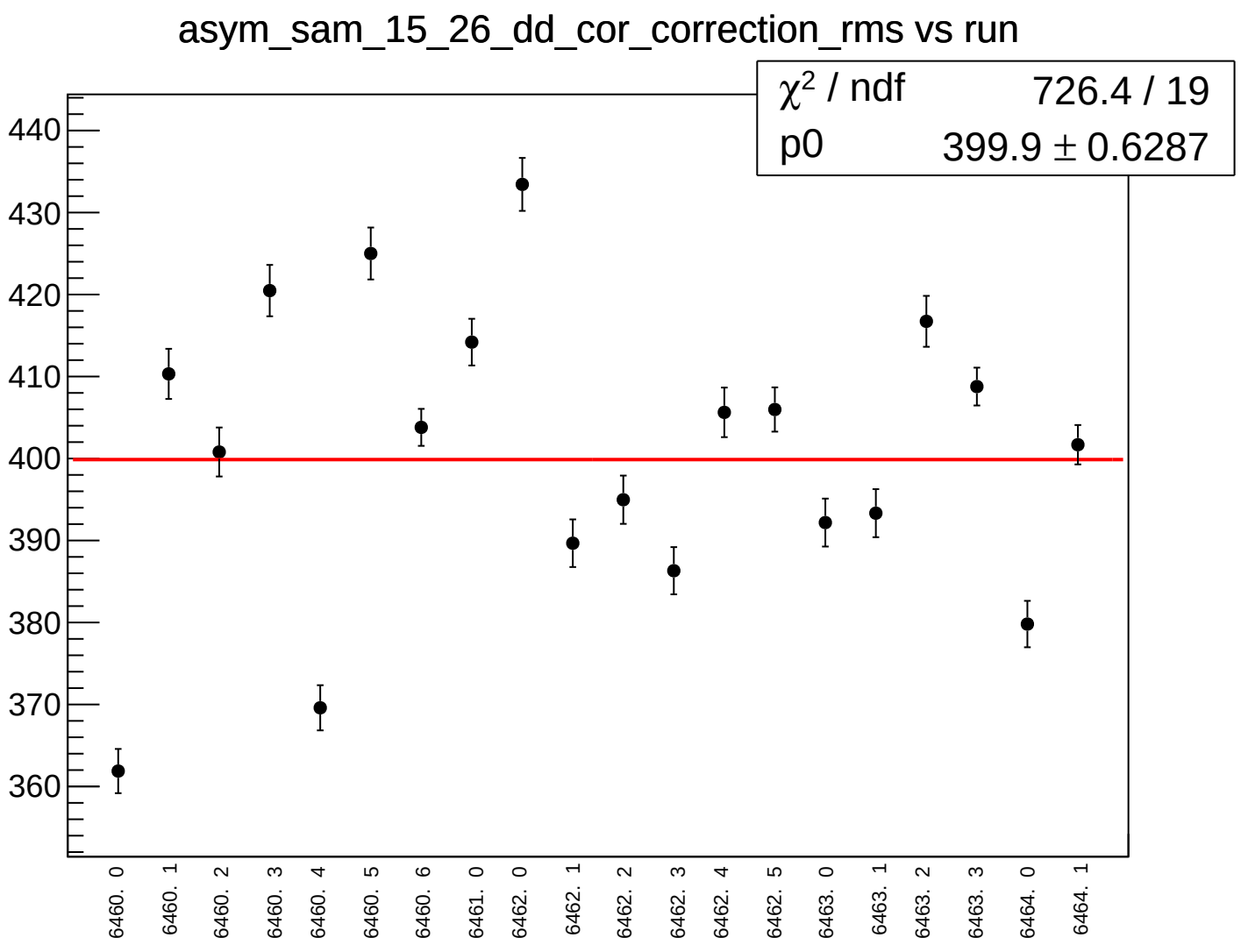

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 726.6 / 19
p0 399.9 ± 0.6287
440
430
420
410
400
390
380
370
360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

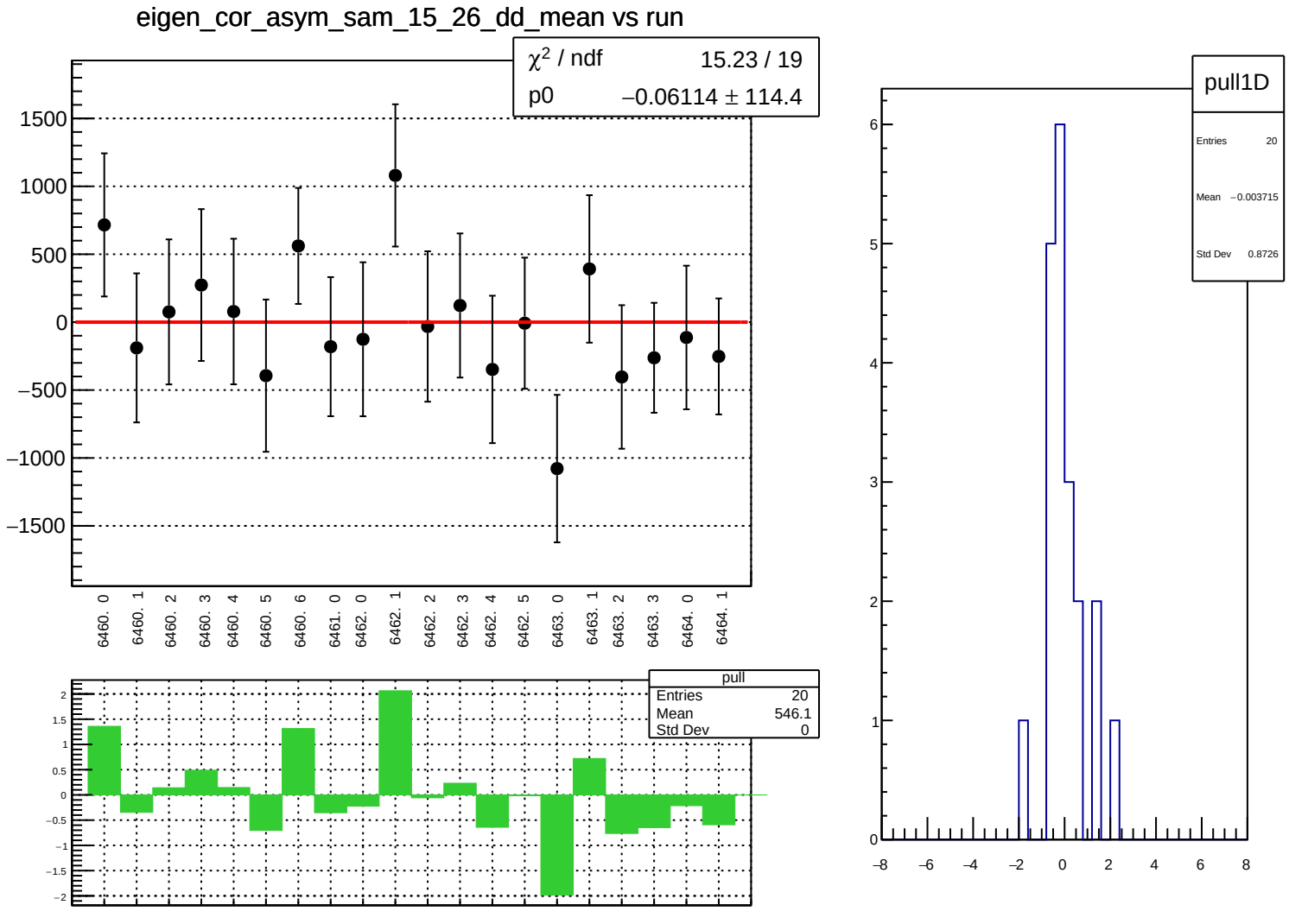

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 15.23 / 19
p0 −0.06114 ± 114.4
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 546.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

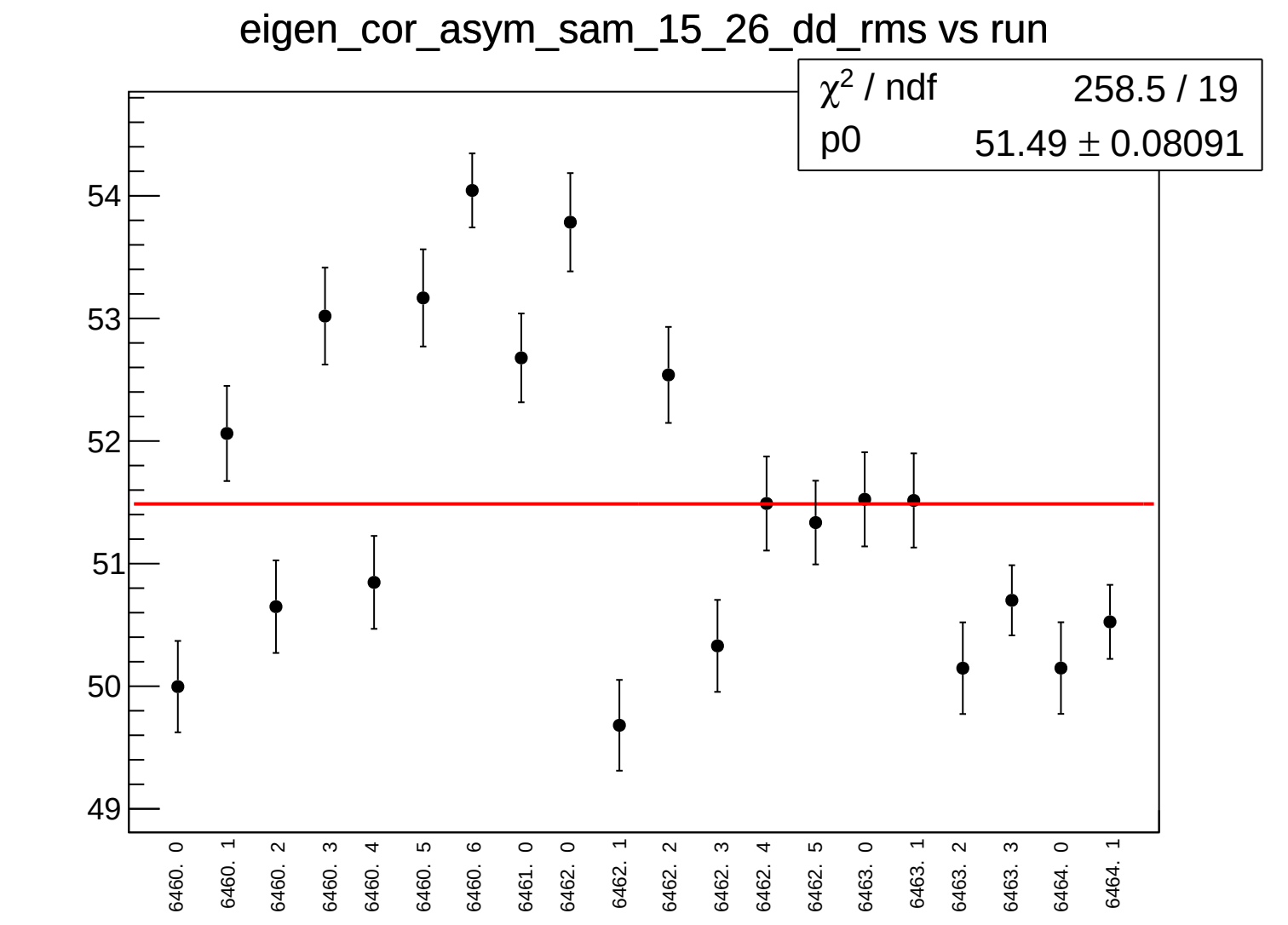

pull1D
Entries 20
Mean −0.003715
Std Dev 0.8726
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

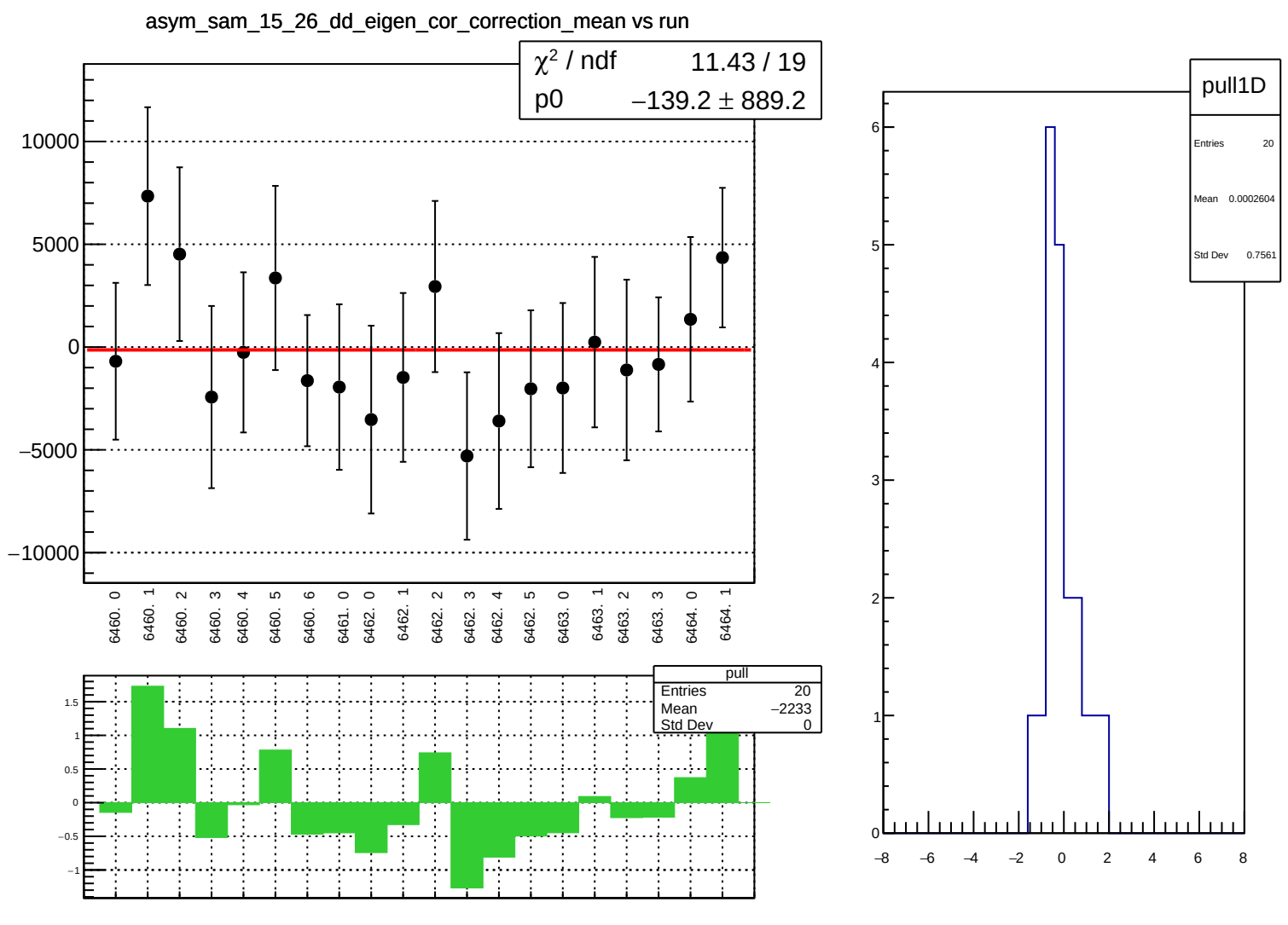

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 258.5 / 19
p0 51.49 ± 0.08091
54
53
52
51
50
49
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

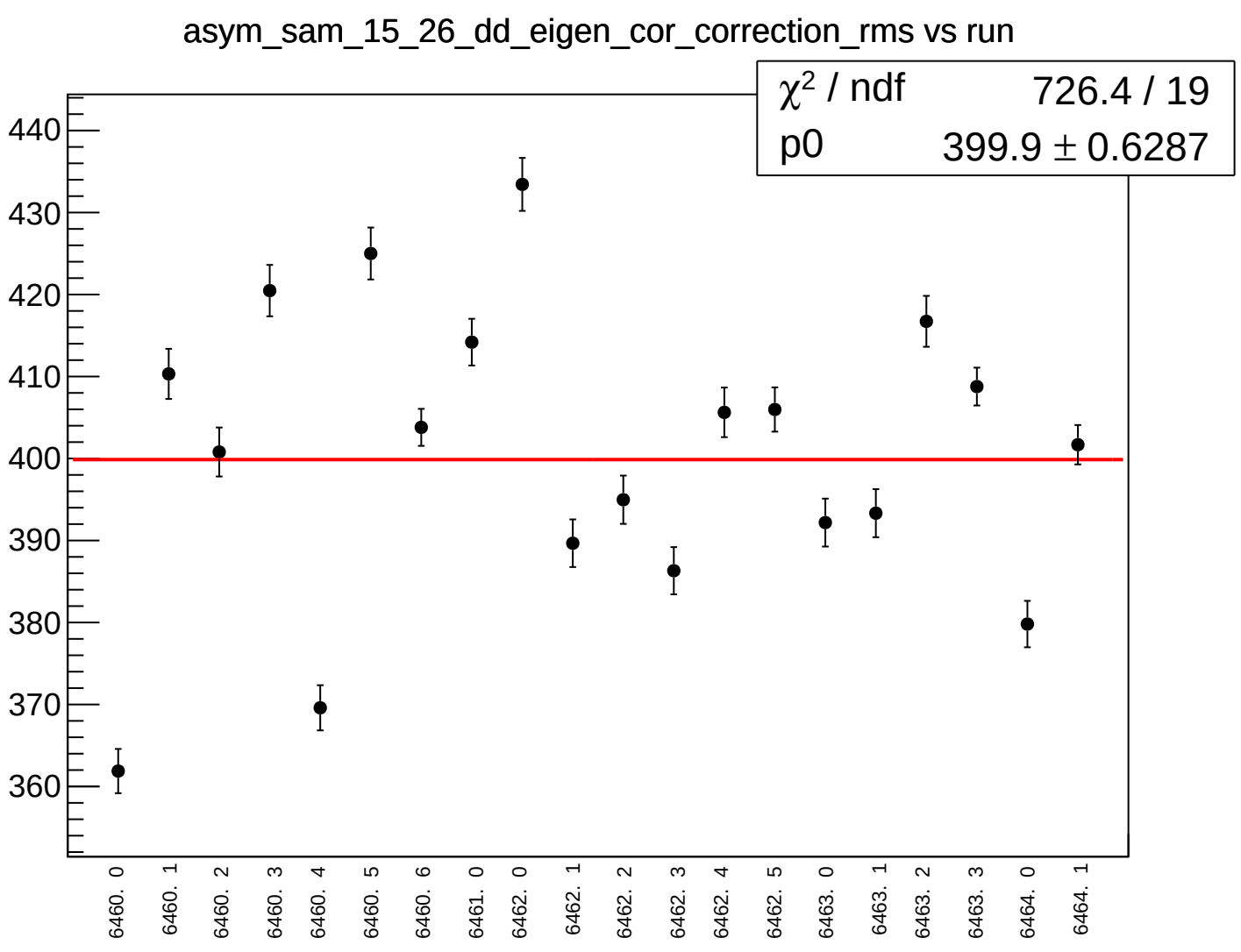

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 11.43 / 19
p0 −139.2 ± 889.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2233
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.0002604
Std Dev 0.7561
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

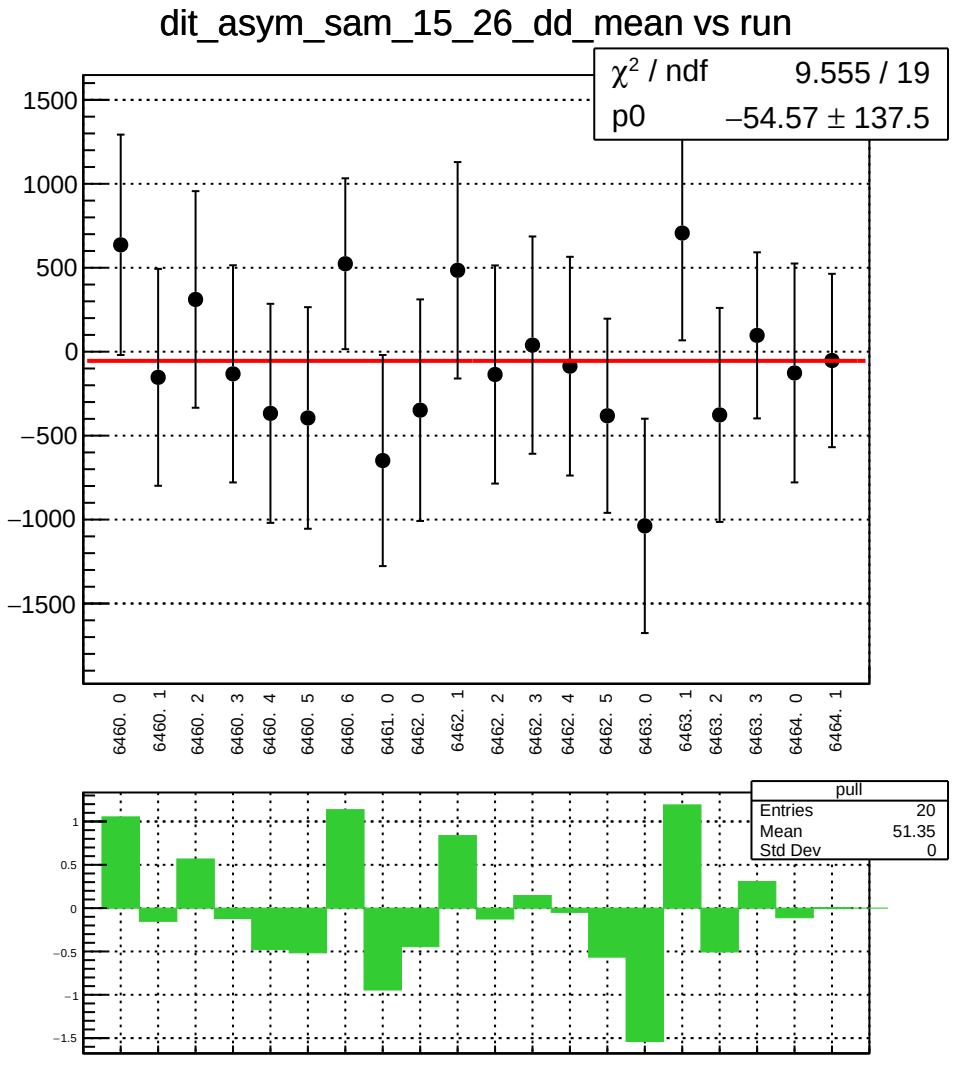

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 726.4 / 19
p0 399.9 ± 0.6287
440
430
420
410
400
390
380
370
360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

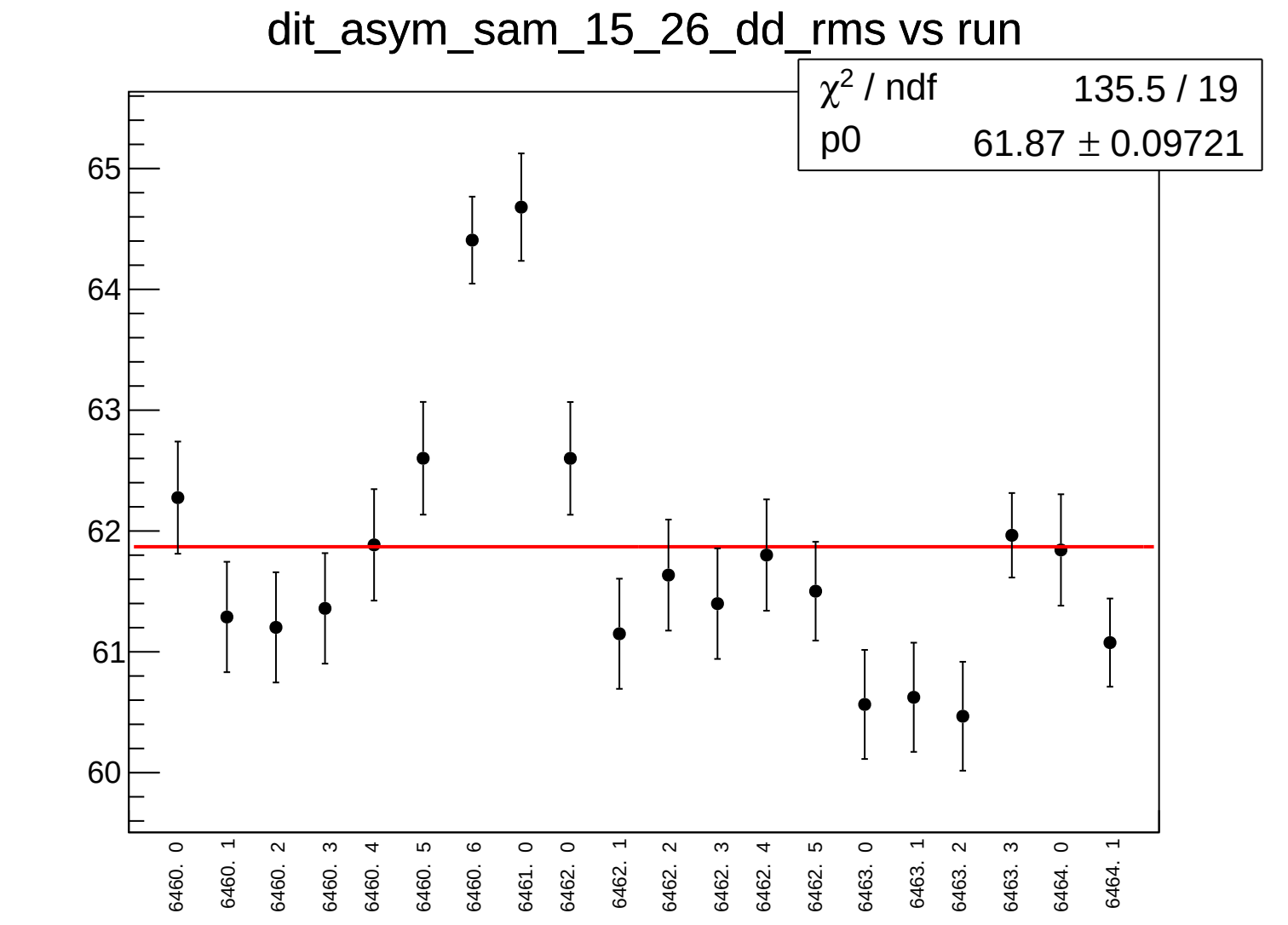

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 15.23 / 19
p0 −0.06114 ± 114.4
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 546.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.003715
Std Dev 0.8726
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

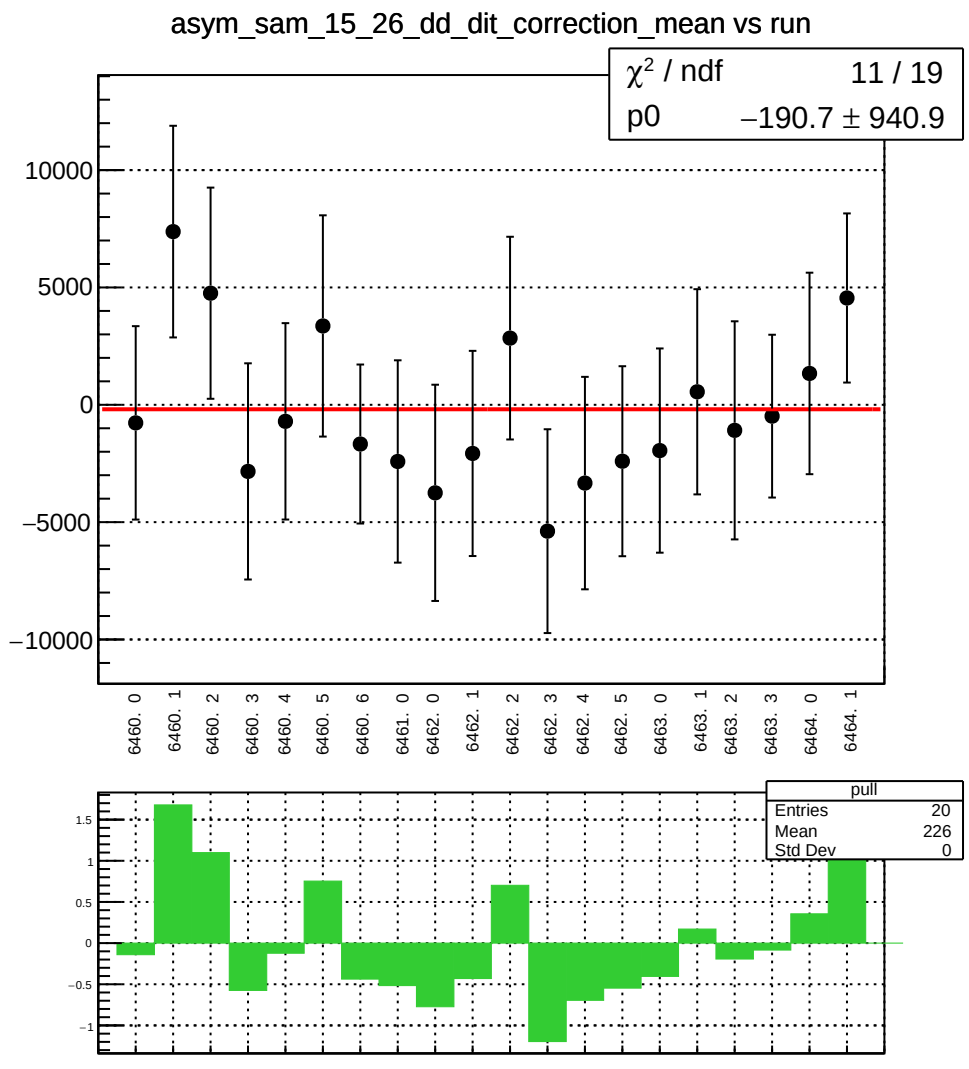

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 258.5 / 19
p0 51.49 ± 0.08091
54
53
52
51
50
49
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

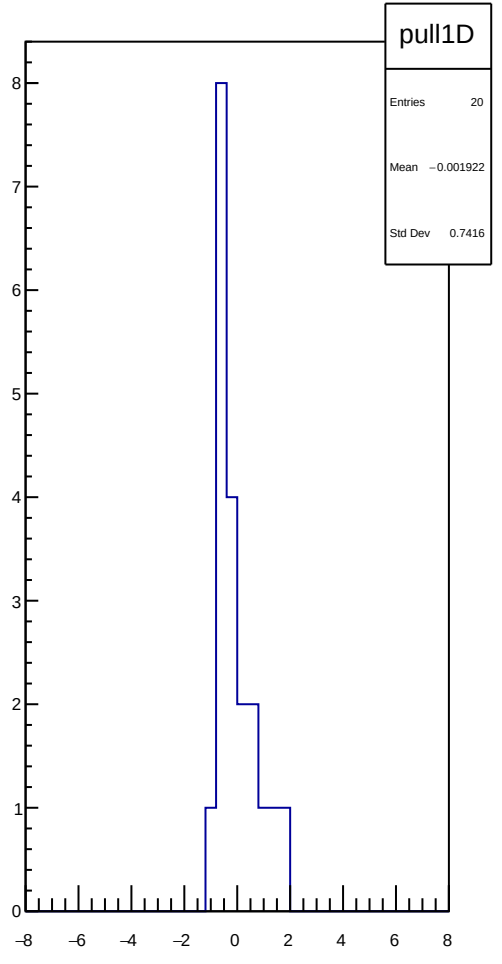

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 11.43 / 19
p0 −139.2 ± 889.2
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2233
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.0002604
Std Dev 0.7561
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

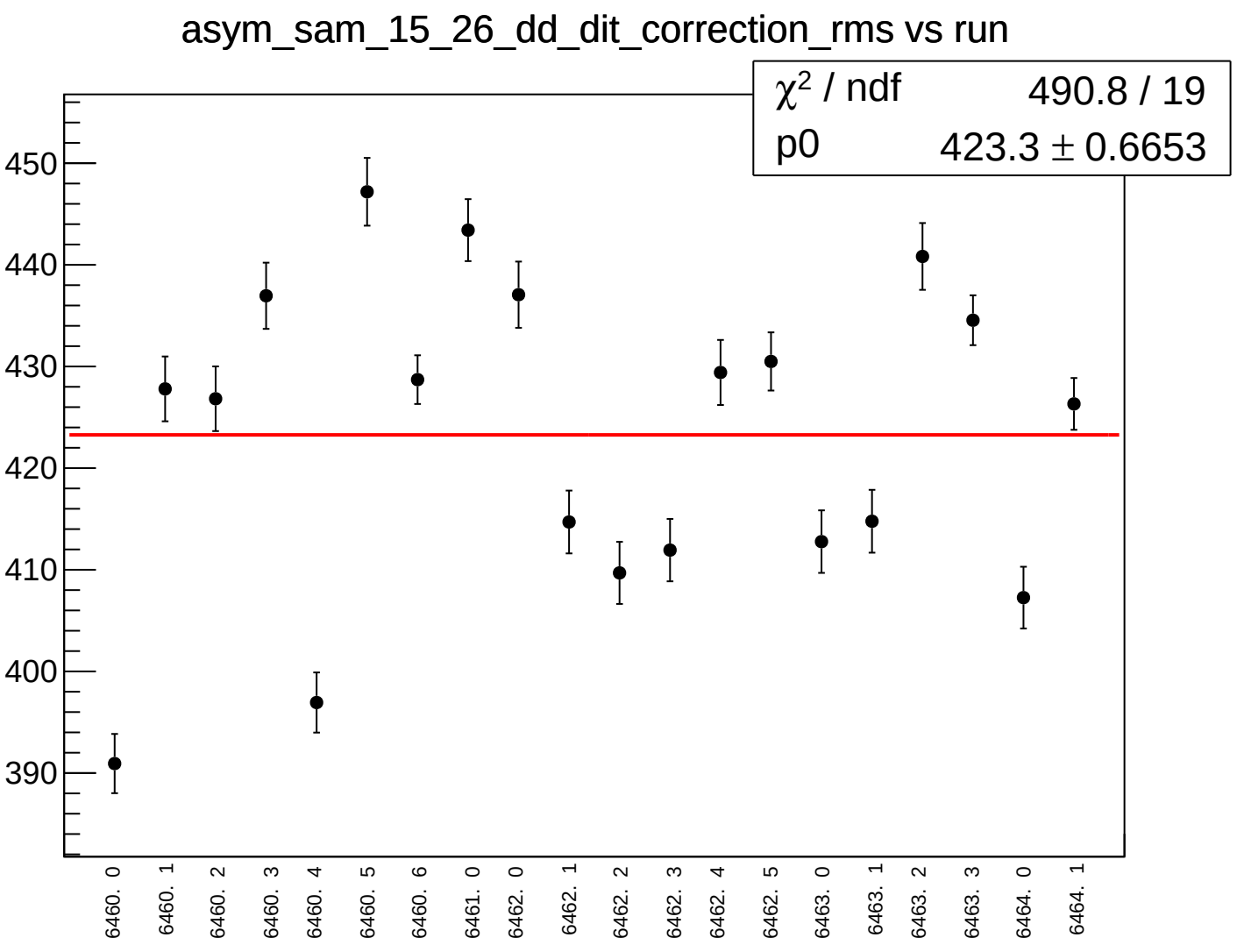

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 726.4 / 19
p0 399.9 ± 0.6287
440
430
420
410
400
390
380
370
360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

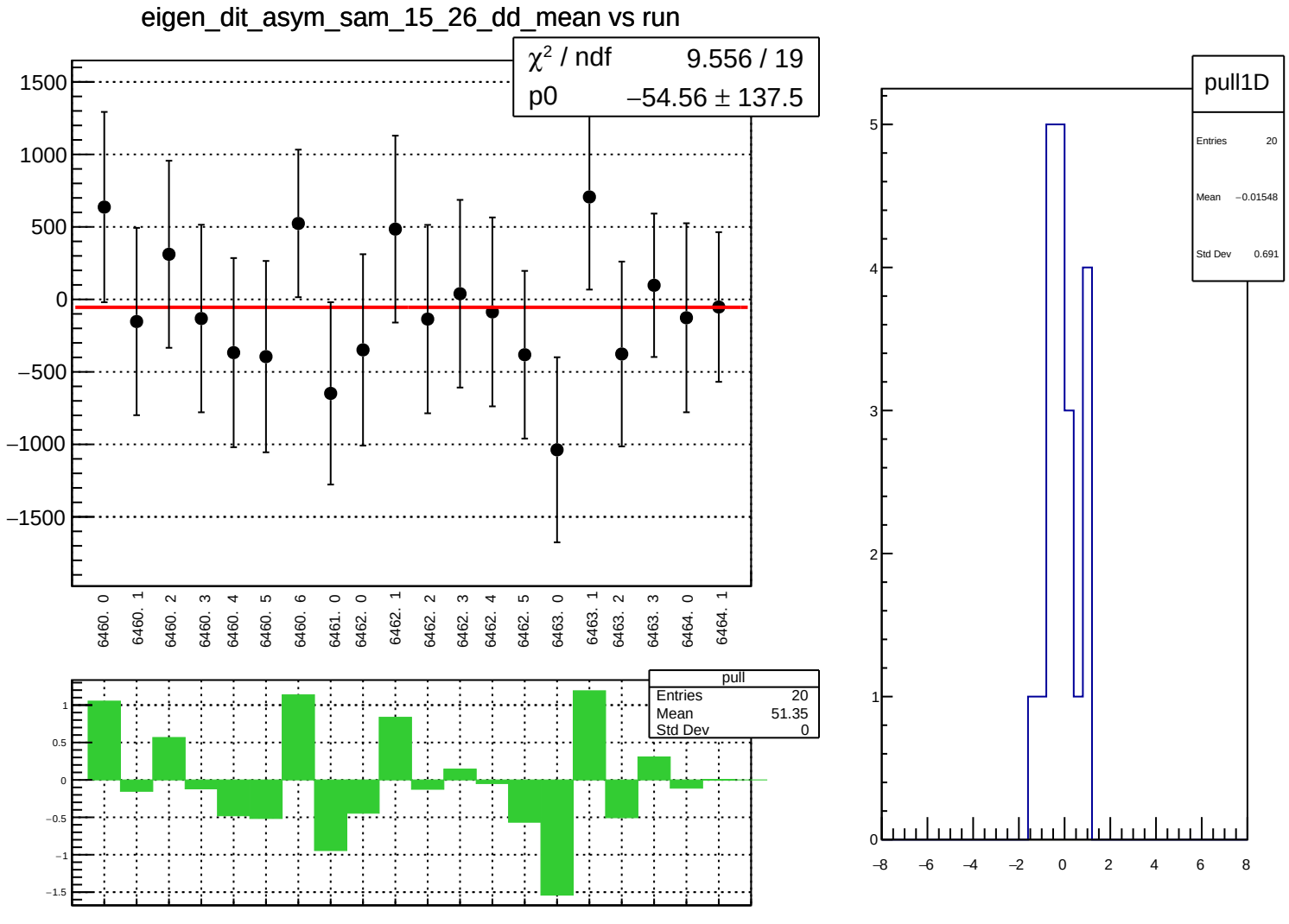

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 9.555 / 19
p0 −54.57 ± 137.5
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 51.35
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01548
Std Dev 0.691
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 135.5 / 19
p0 61.87 ± 0.09721
65
64
63
62
61
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 11 / 19
p0 −190.7 ± 940.9
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 226
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 20
Mean −0.001922
Std Dev 0.7416
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 490.8 / 19
p0 423.3 ± 0.6653
450
440
430
420
410
400
390
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1


eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 9.556 / 19
p0 −54.56 ± 137.5
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 51.35
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01548
Std Dev 0.691
5
4
3
2
1
0
−8
−6
−4
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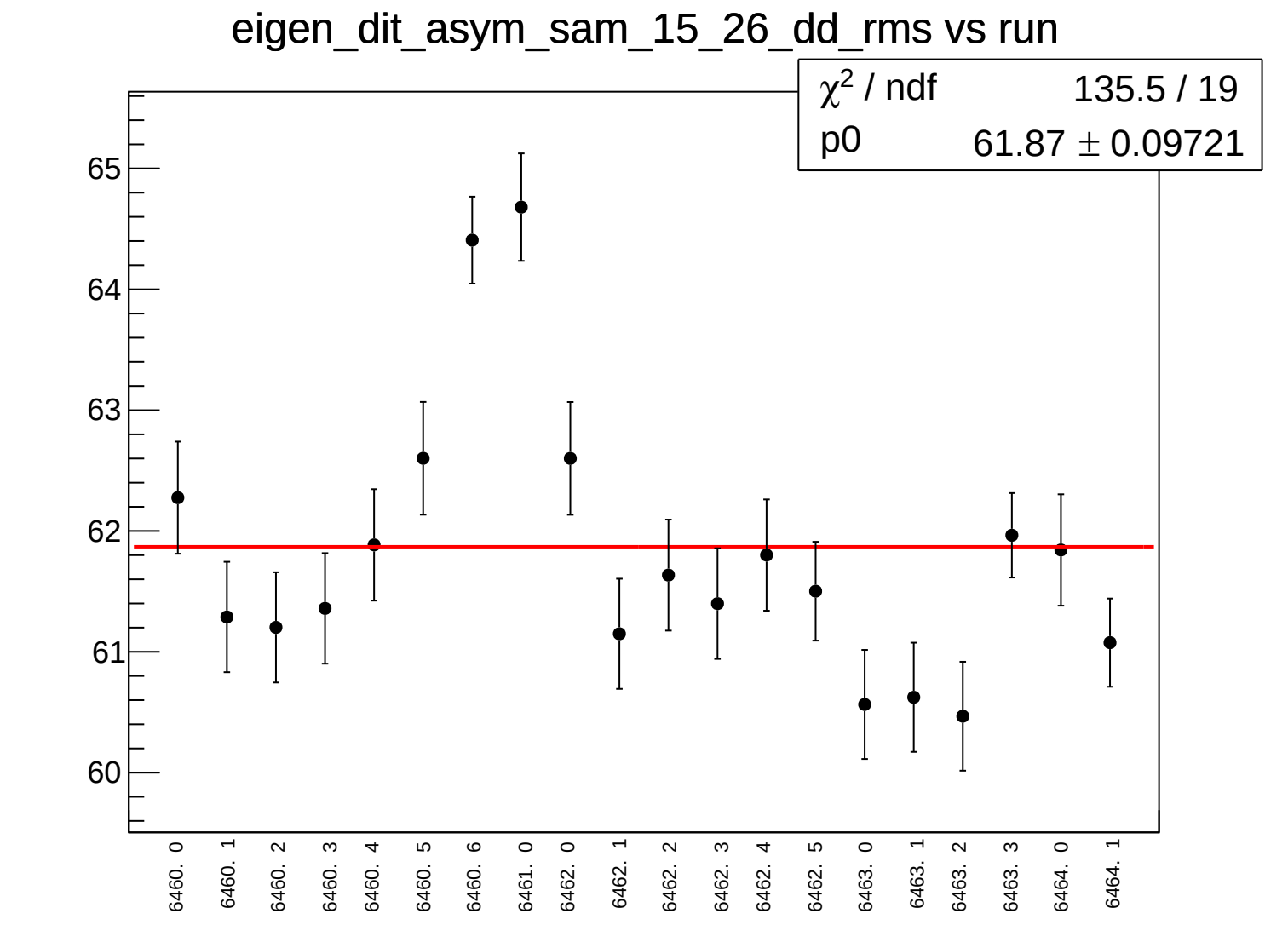
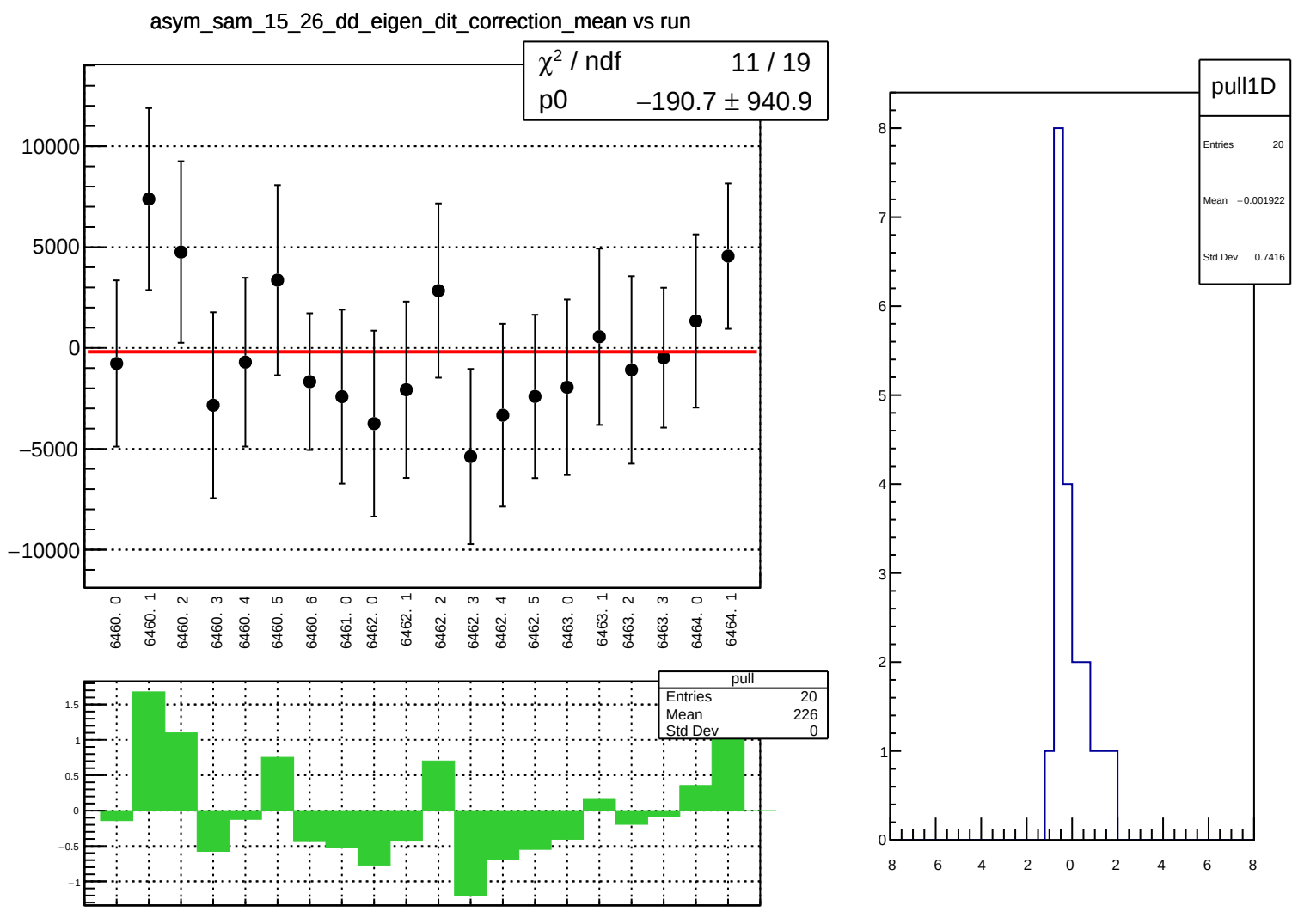
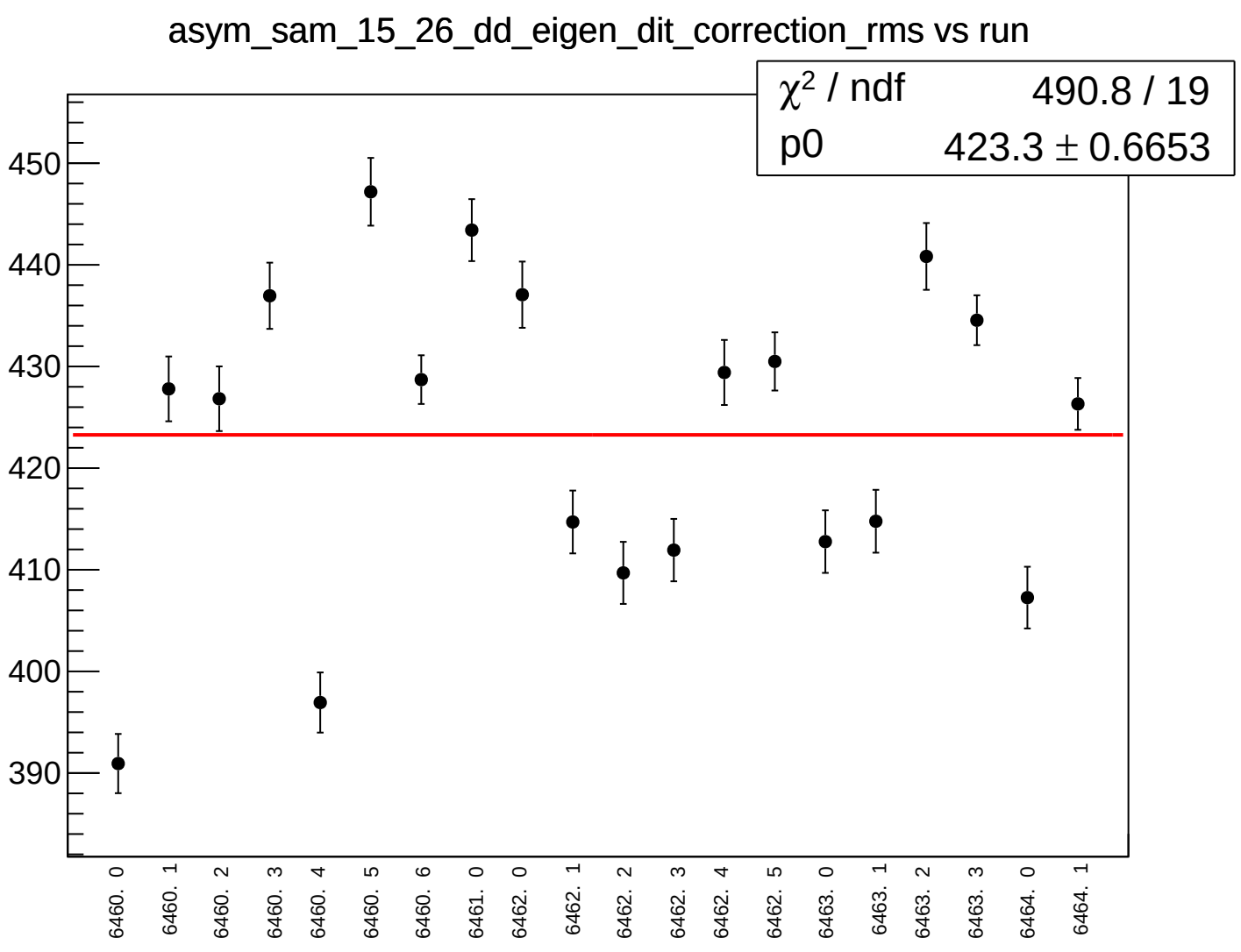
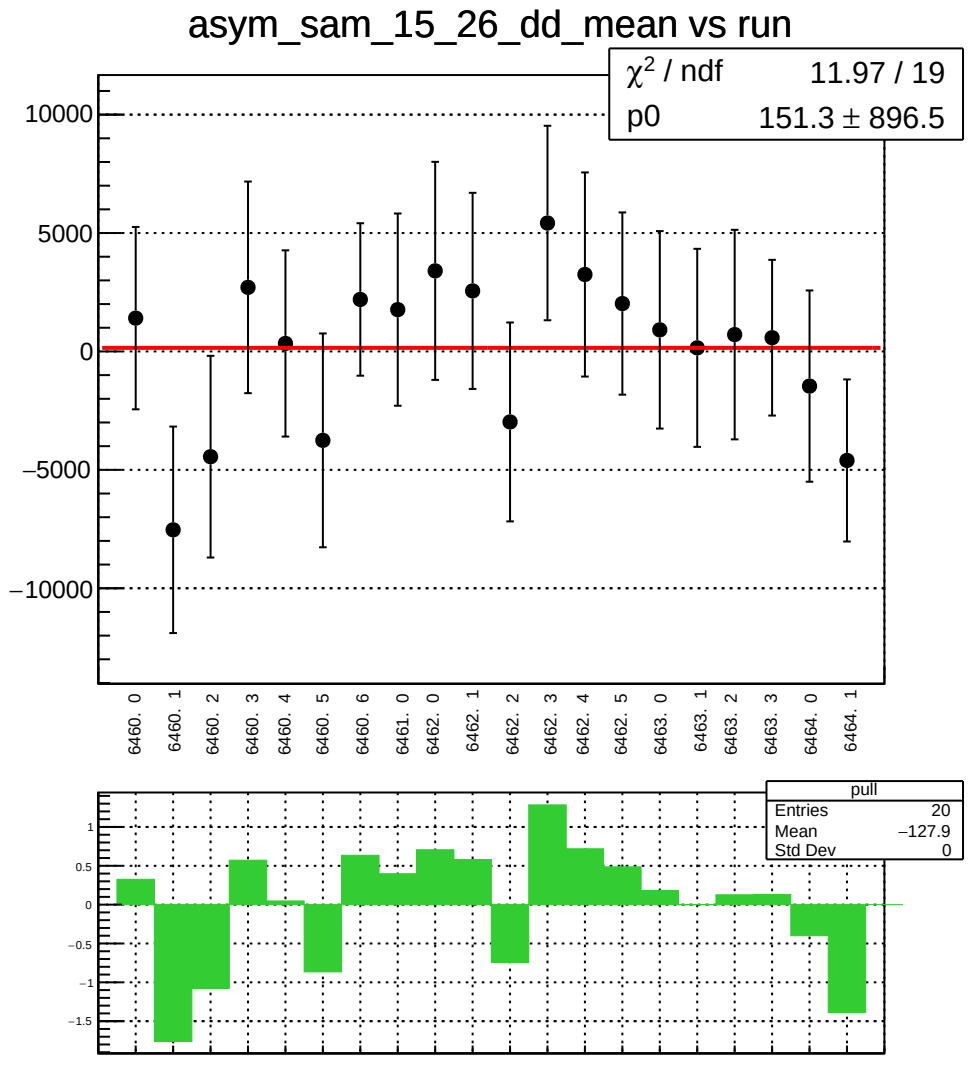
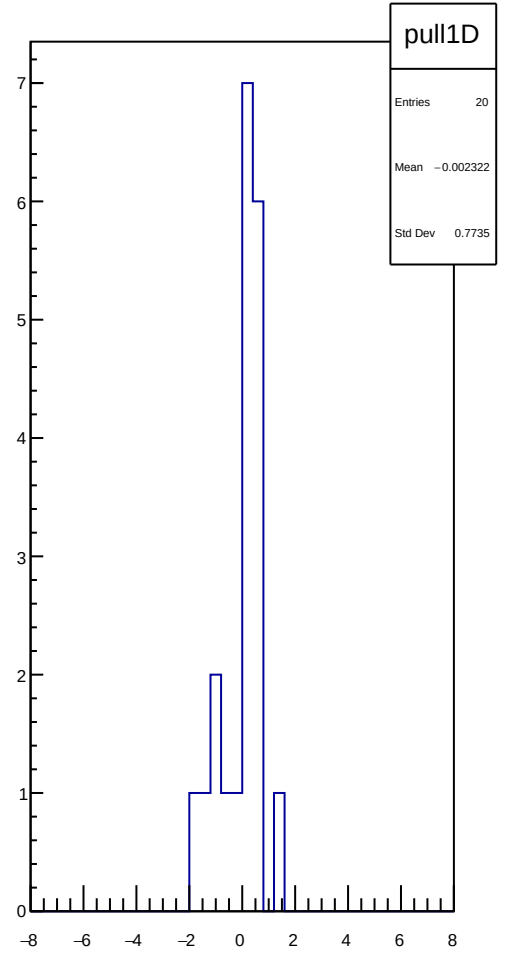
0
2
4
6
8

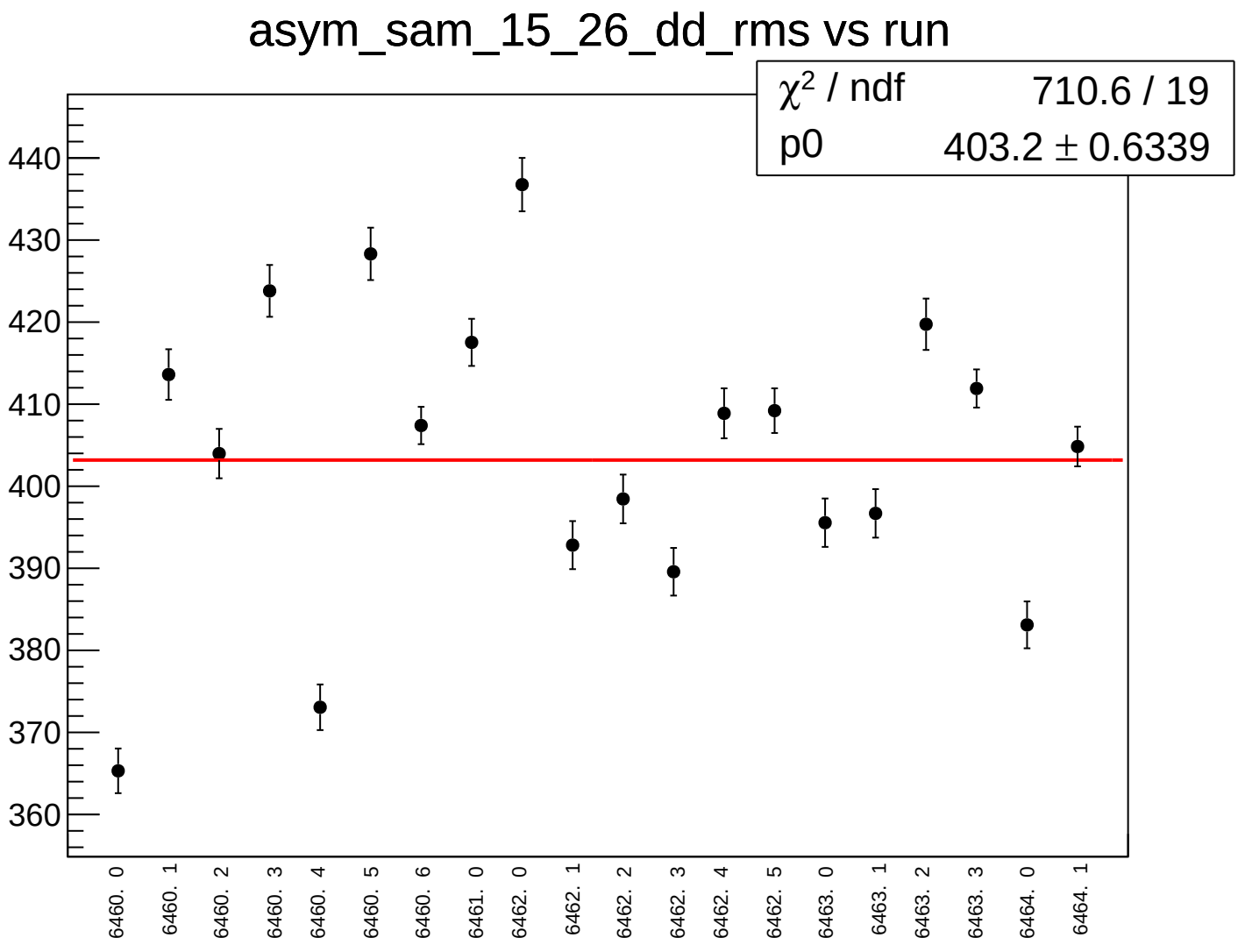

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 135.5 / 19
p0 61.87 ± 0.09721
65
64
63
62
61
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

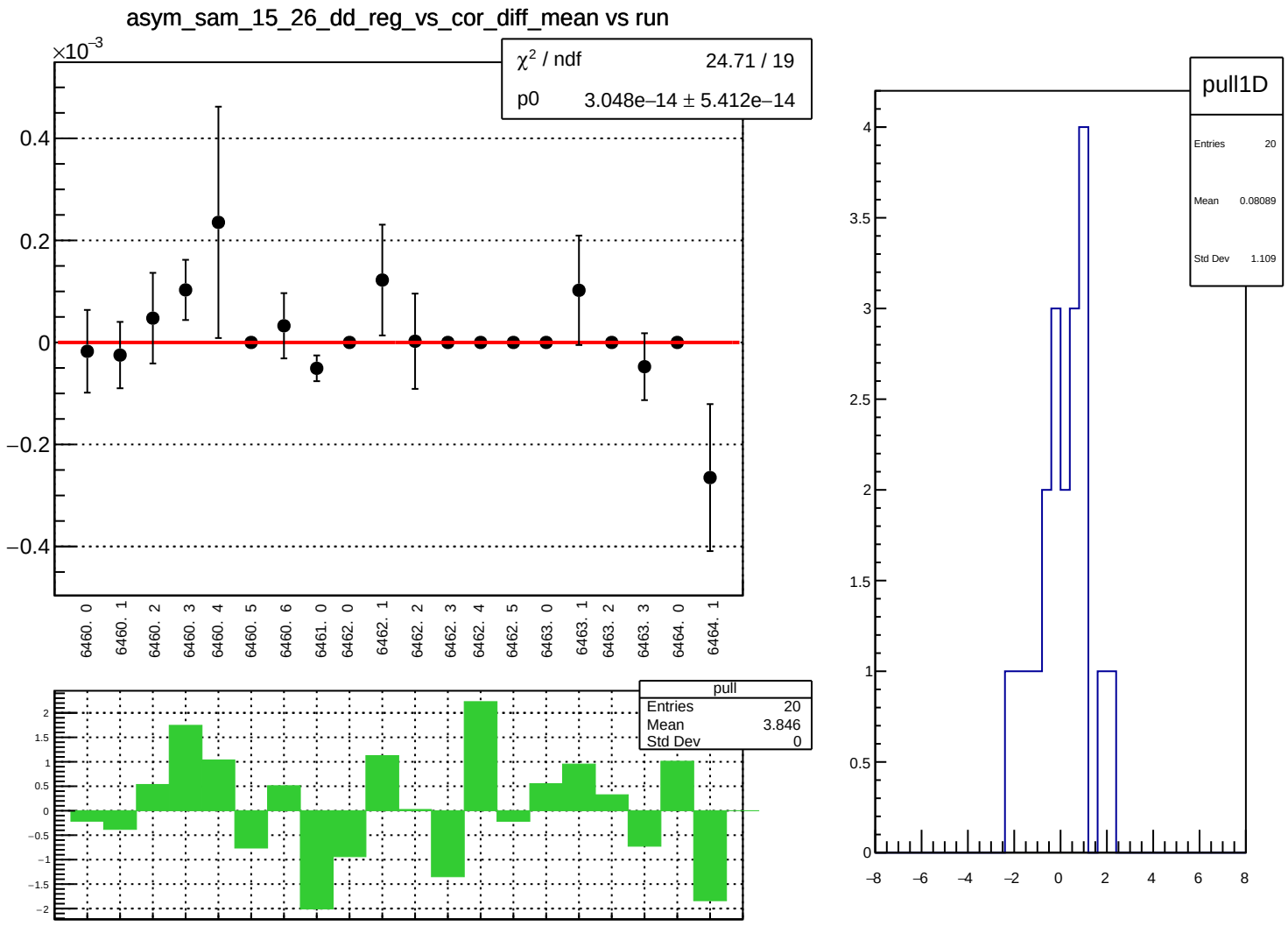

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 11 / 19
p0 −190.7 ± 940.9
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 226
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.001922
Std Dev 0.7416
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

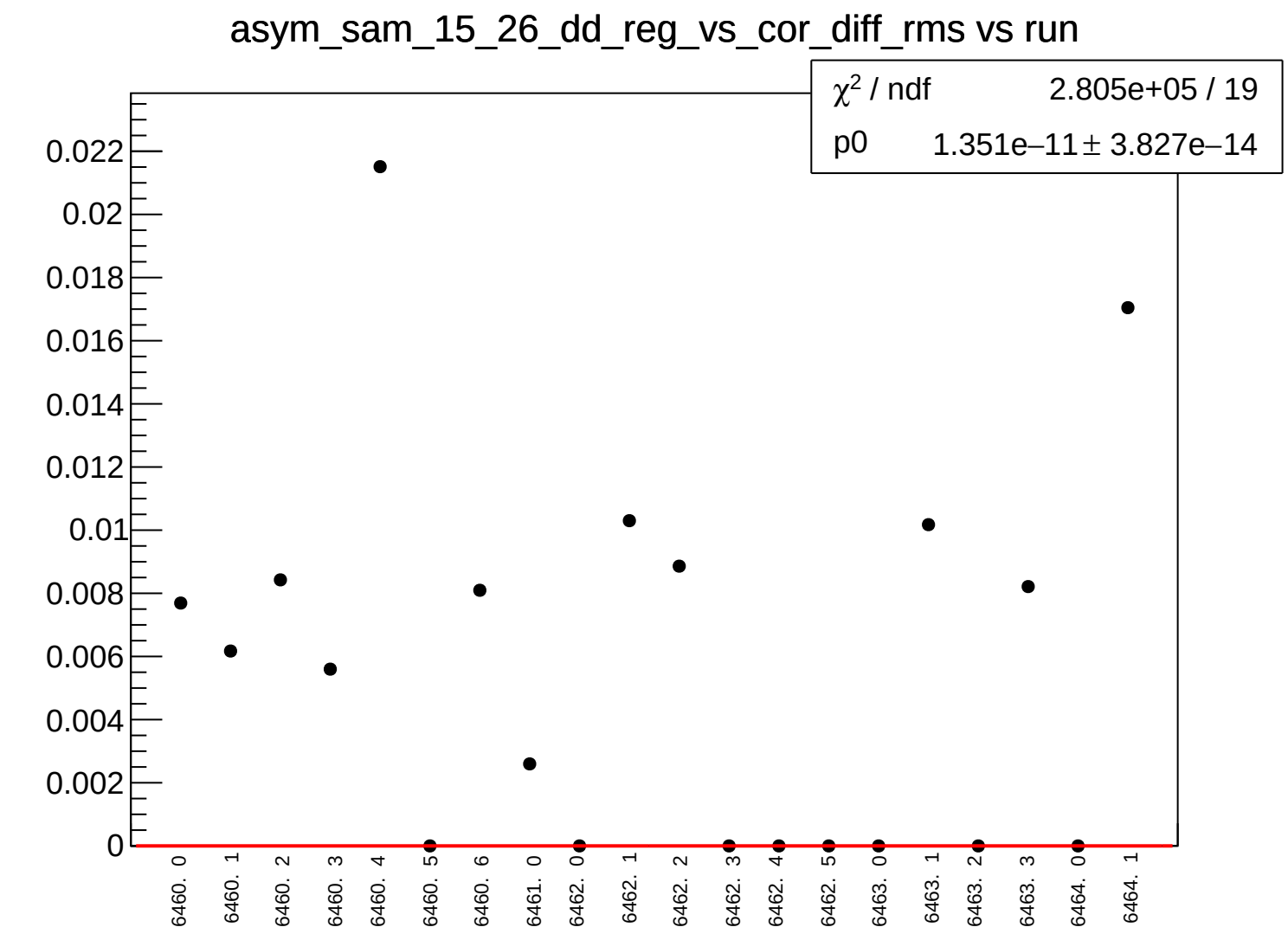

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 490.8 / 19
p0 423.3 ± 0.6653
450
440
430
420
410
400
390
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

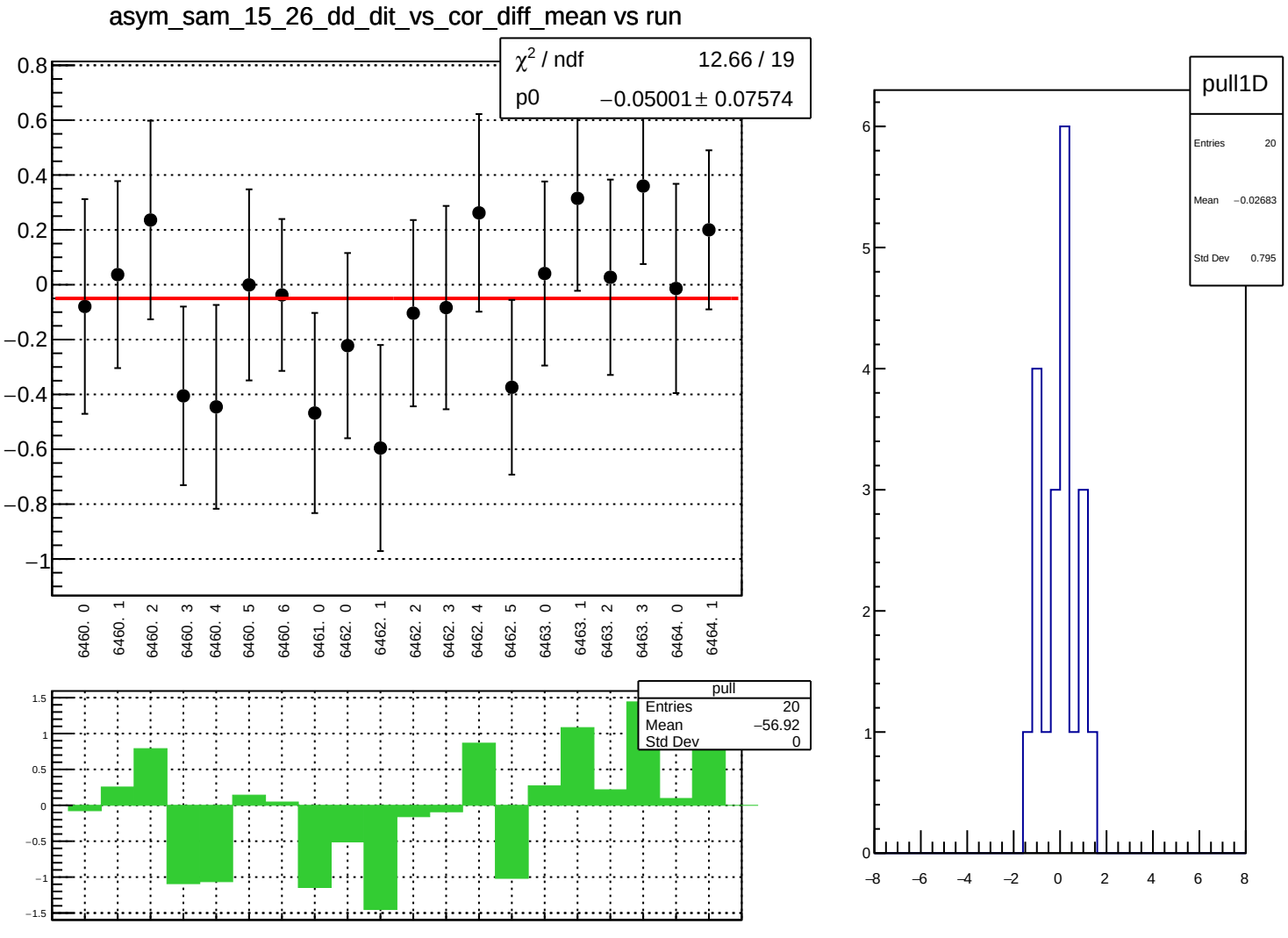

asym_sam_15_26_dd_mean vs run
χ² / ndf 11.97 / 19
p0 151.3 ± 896.5
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −127.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

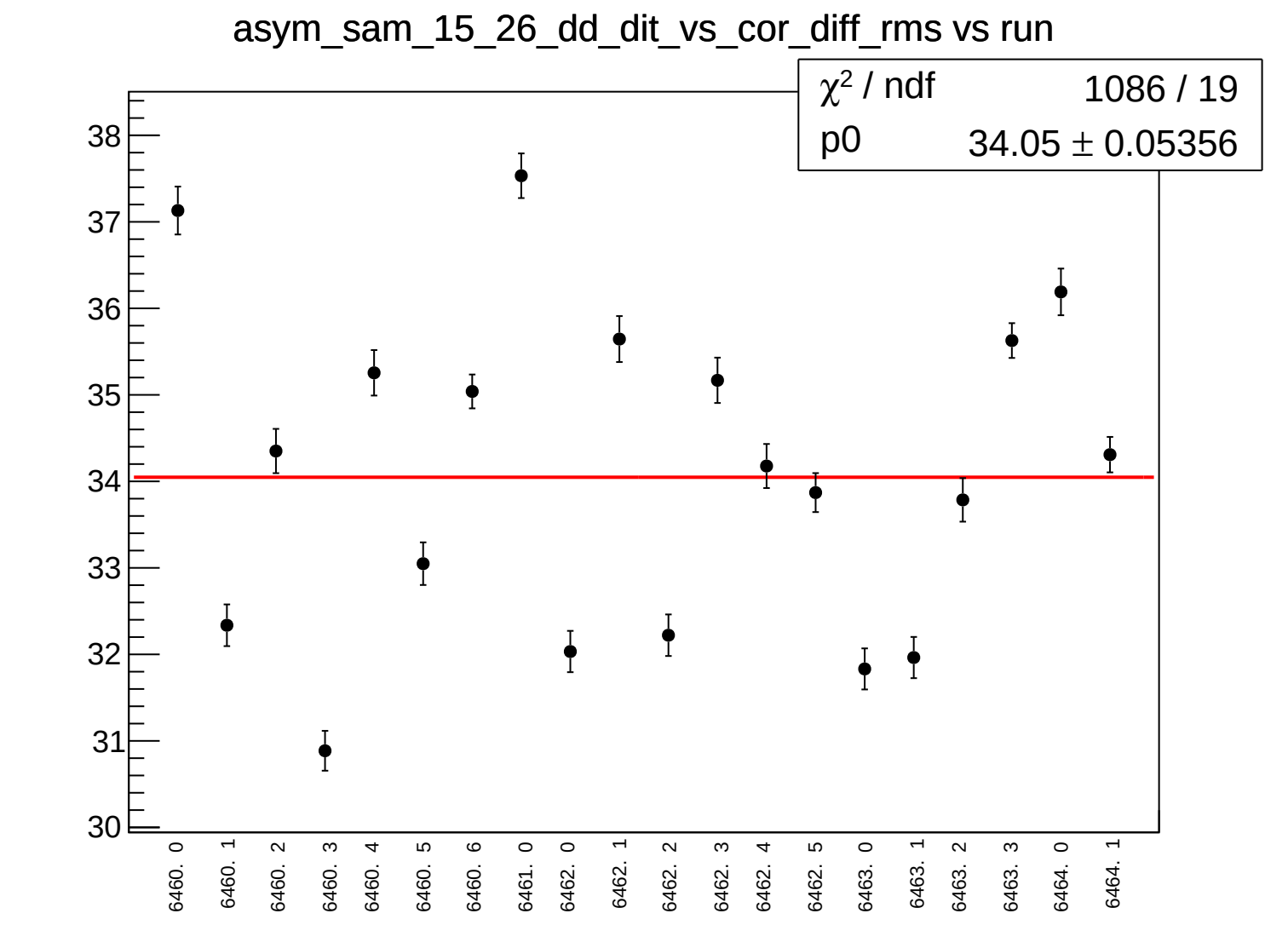

pull1D
Entries 20
Mean −0.002322
Std Dev 0.7735
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

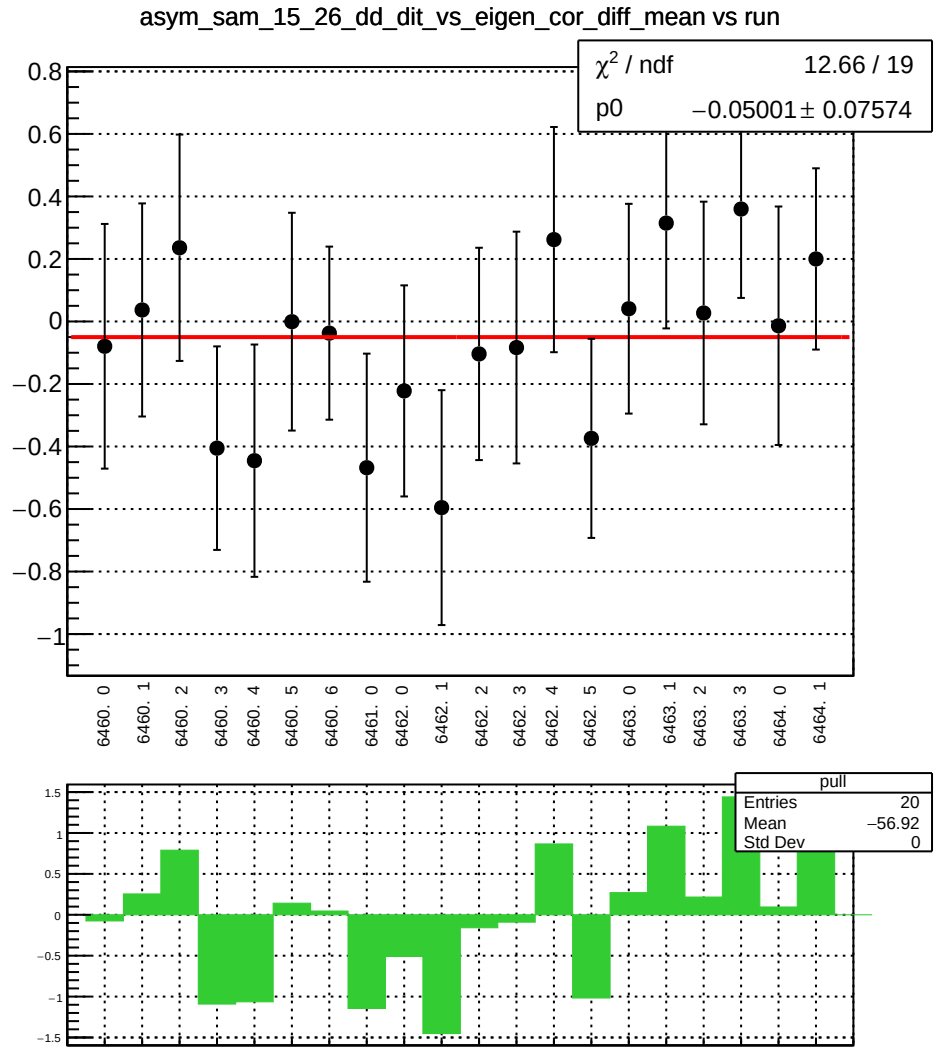

asym_sam_15_26_dd_rms vs run
χ² / ndf 710.6 / 19
p0 403.2 ± 0.6339
440
430
420
410
400
390
380
370
360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

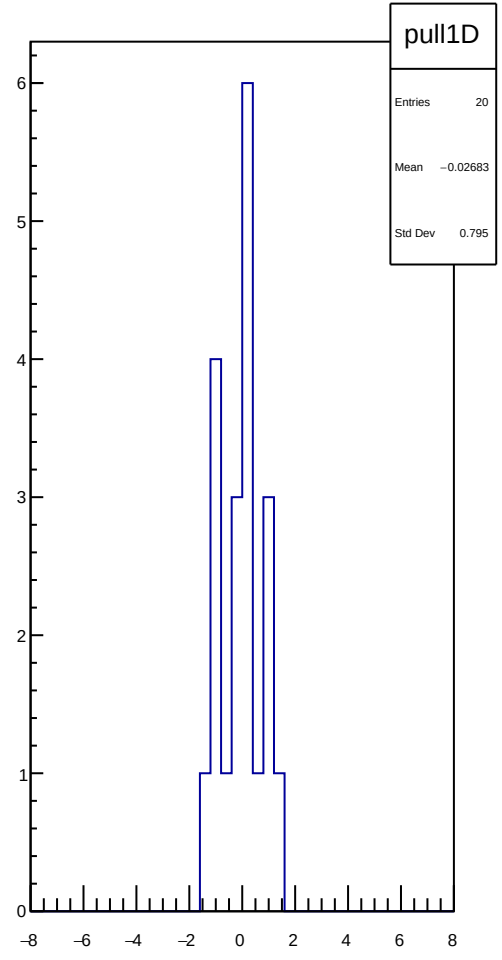

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 24.71 / 19
p0 3.048e−14 ± 5.412e−14
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.846
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.08089
Std Dev 1.109
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

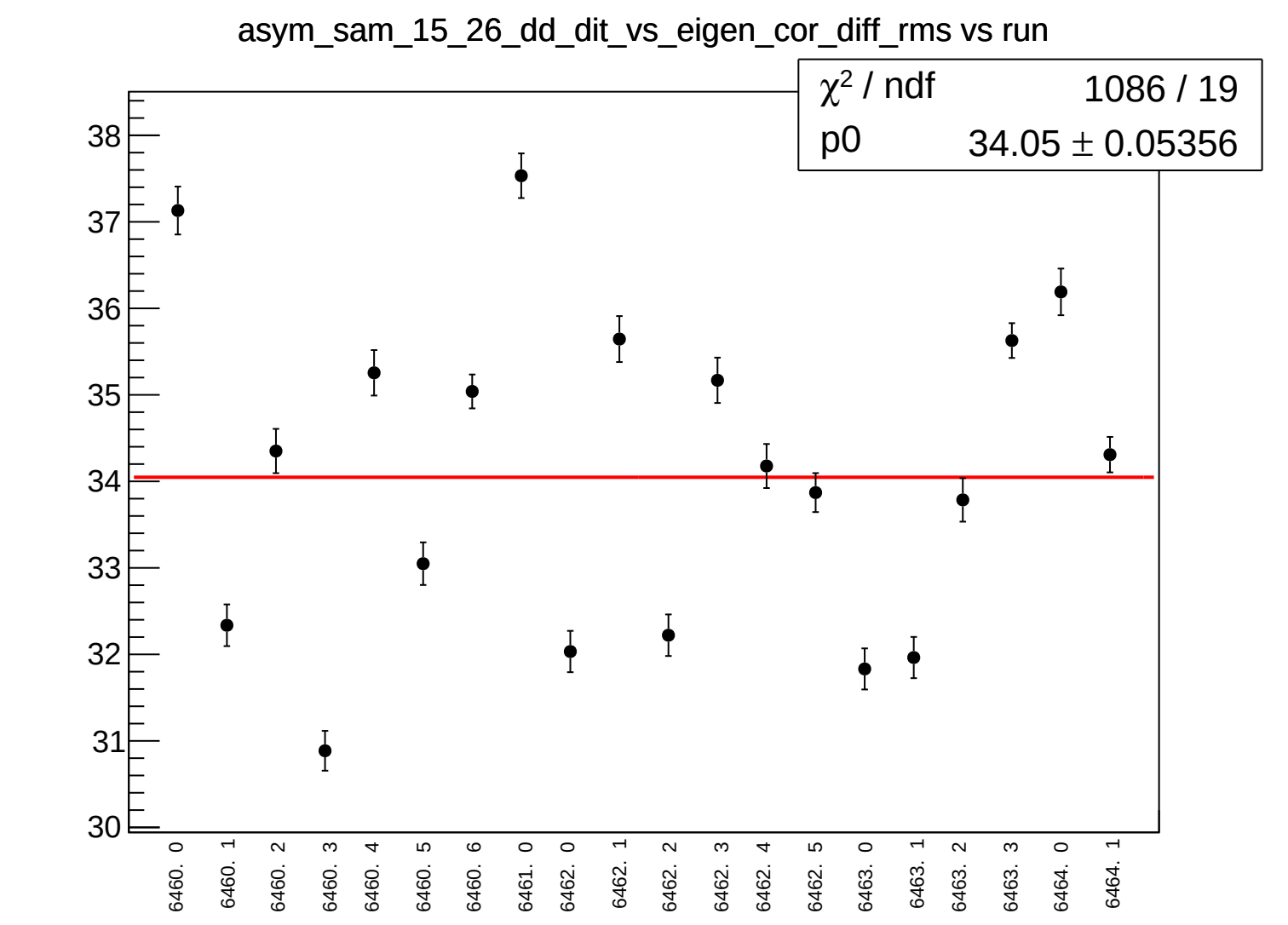

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.805e+05 / 19
p0 1.351e−11 ± 3.827e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

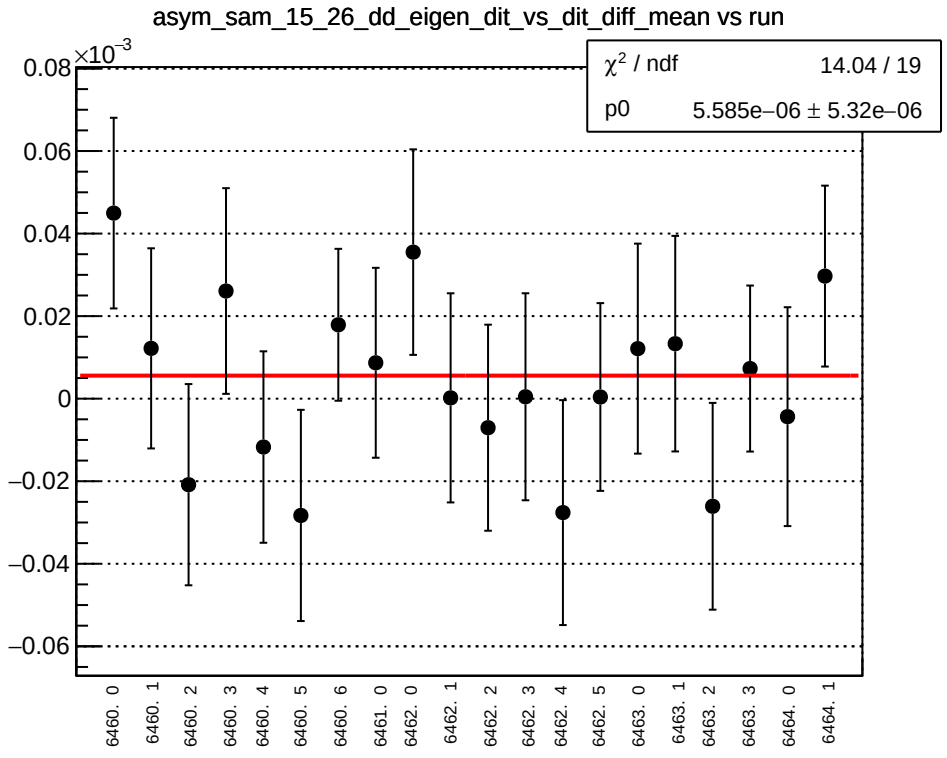

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 12.66 / 19
p0 −0.05001 ± 0.07574
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −56.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02683
Std Dev 0.795
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

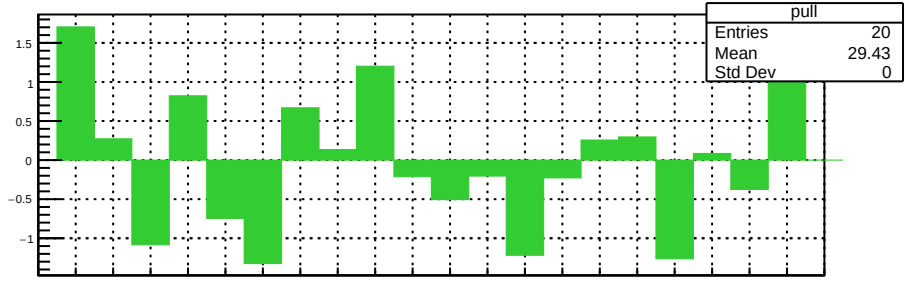

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1086 / 19
p0 34.05 ± 0.05356
38
37
36
35
34
33
32
31
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

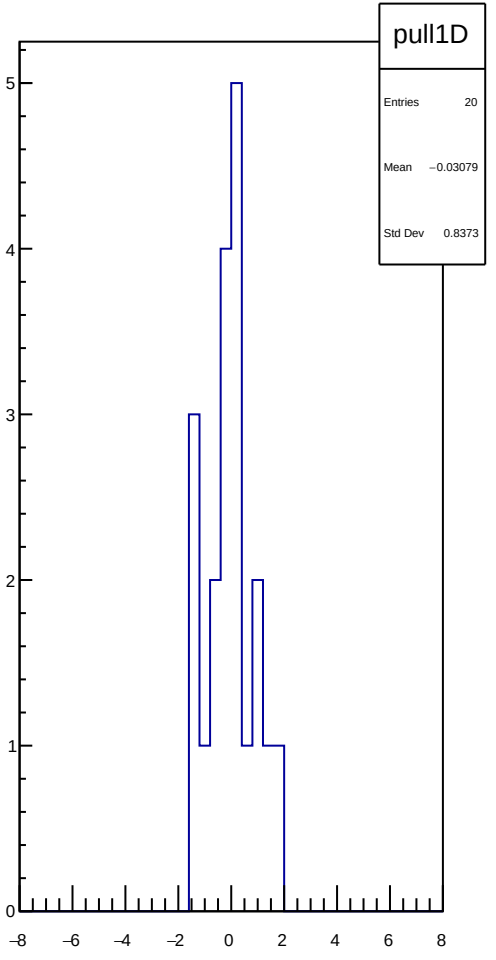

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.66 / 19
p0 −0.05001 ± 0.07574
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −56.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

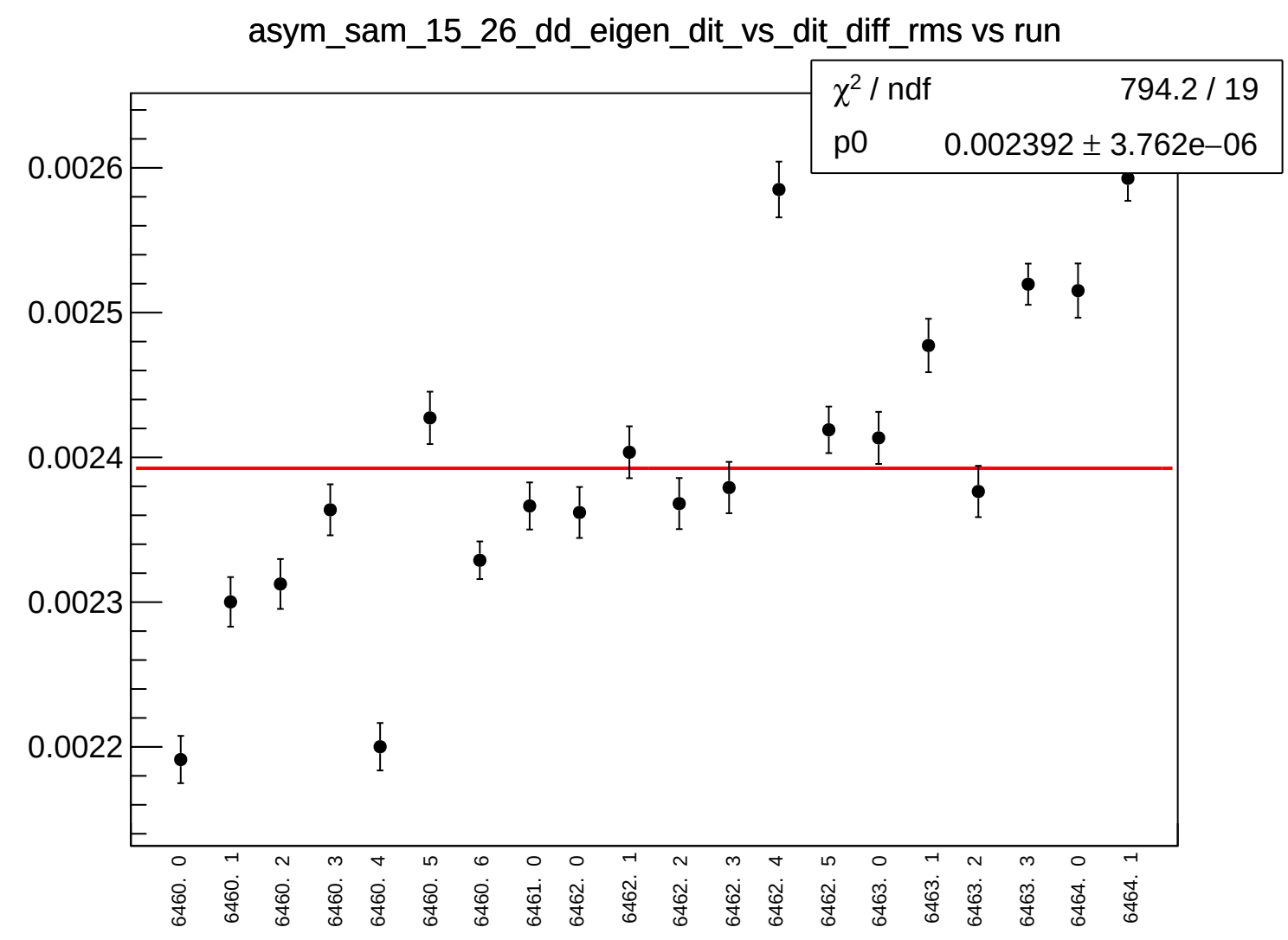

pull1D
Entries 20
Mean −0.02683
Std Dev 0.795
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

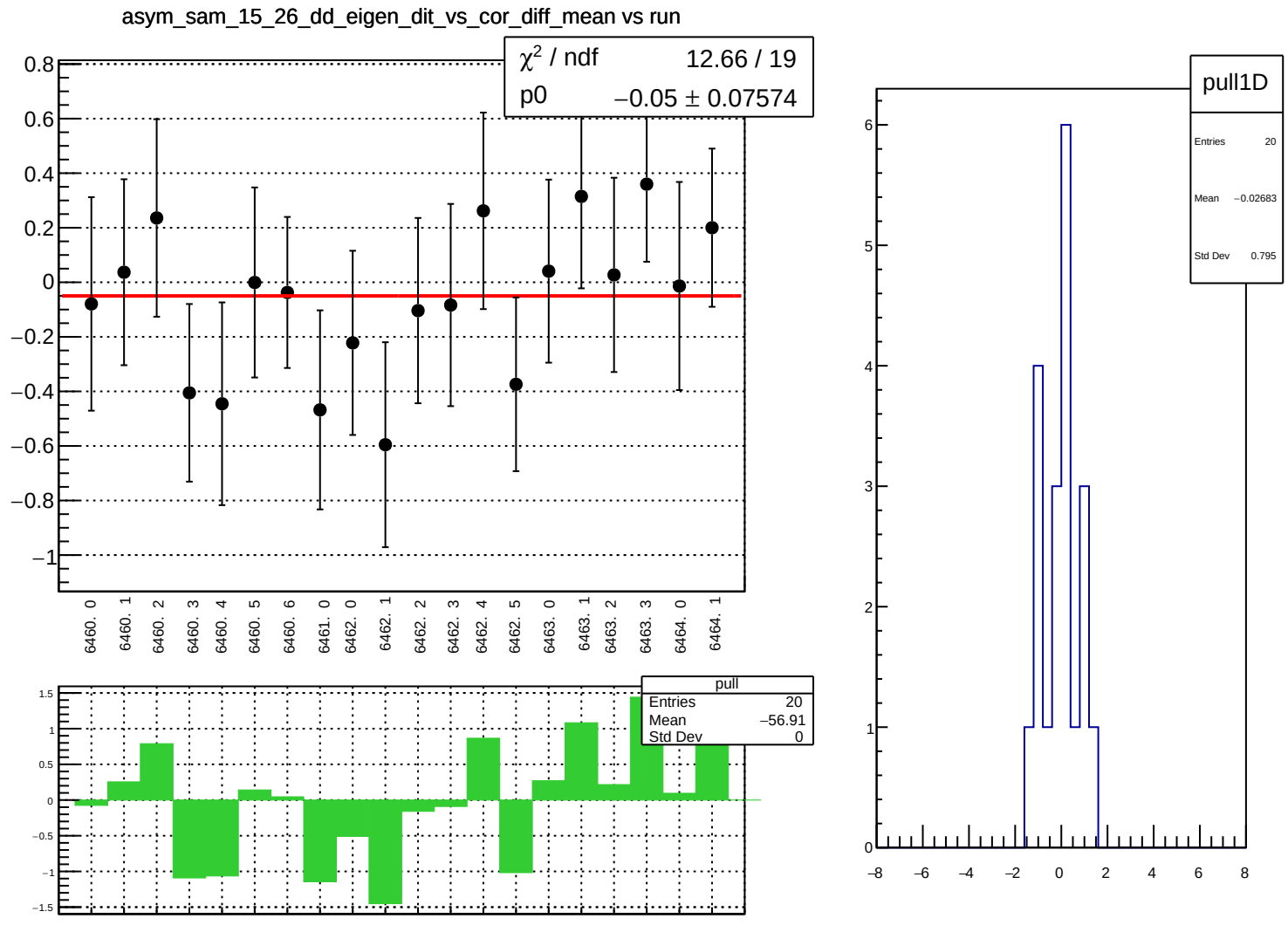

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1086 / 19
p0 34.05 ± 0.05356
38
37
36
35
34
33
32
31
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

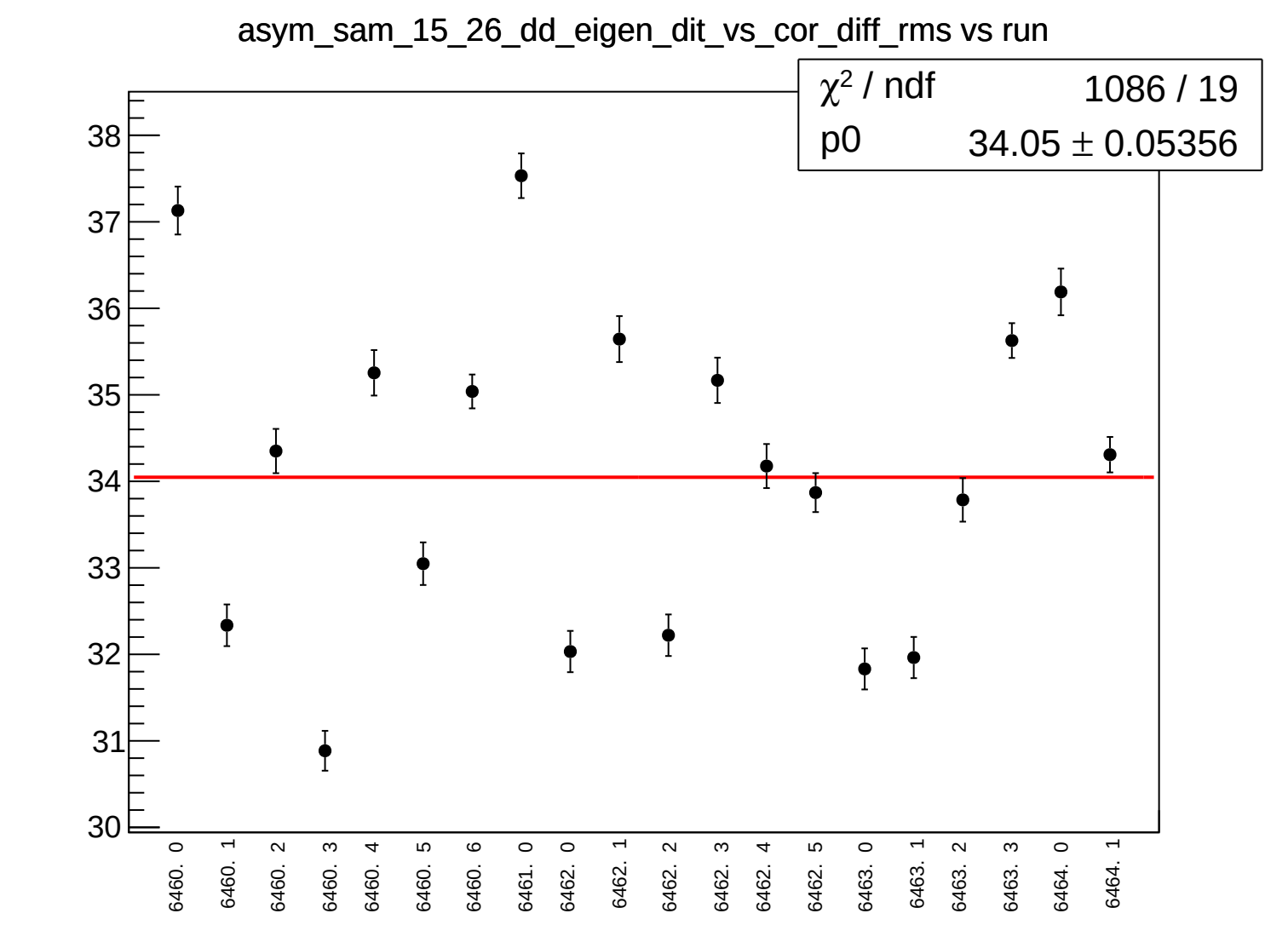

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.04 / 19
p0 5.585e−06 ± 5.32e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

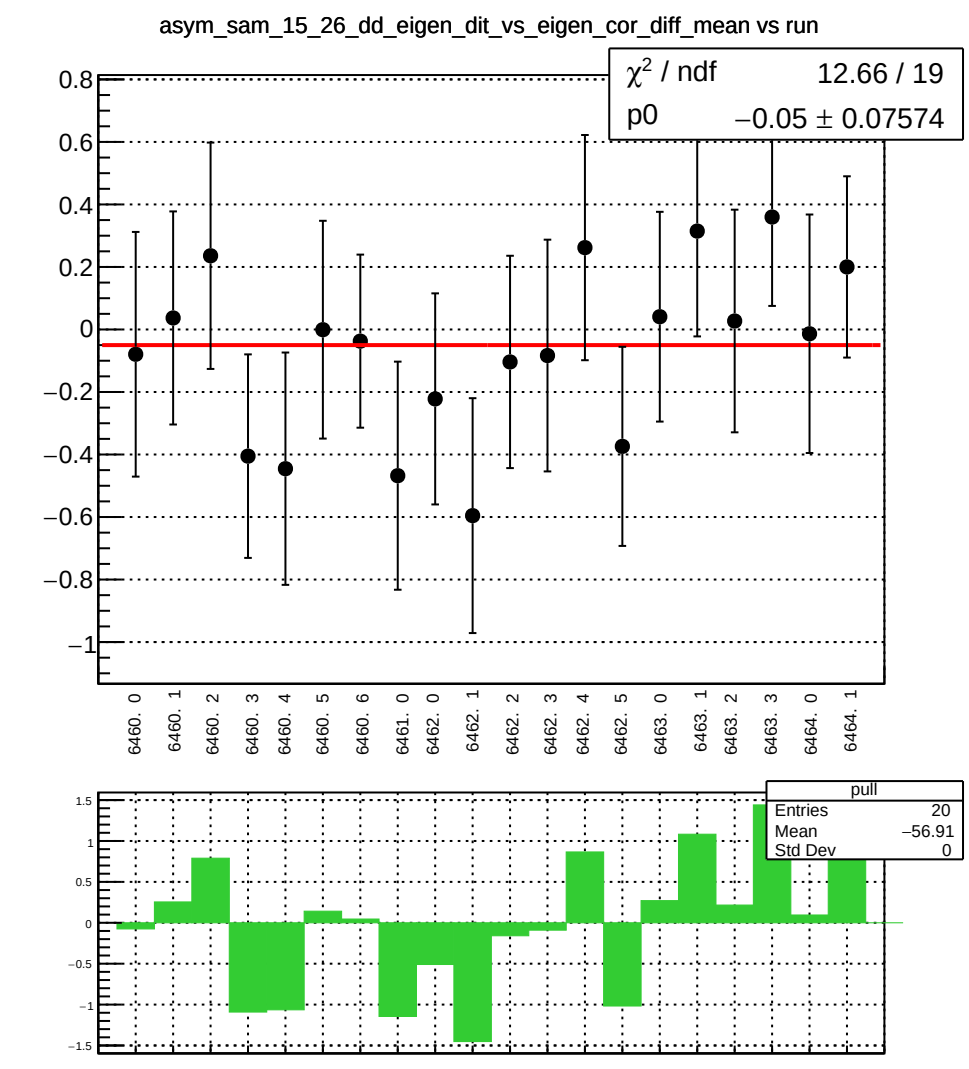

pull
Entries 20
Mean 29.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1

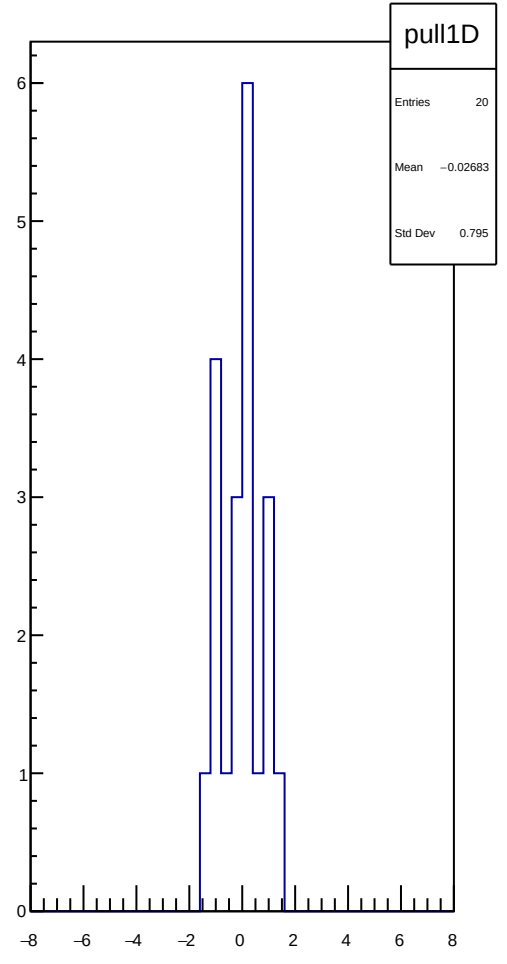

pull1D
Entries 20
Mean −0.03079
Std Dev 0.8373
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

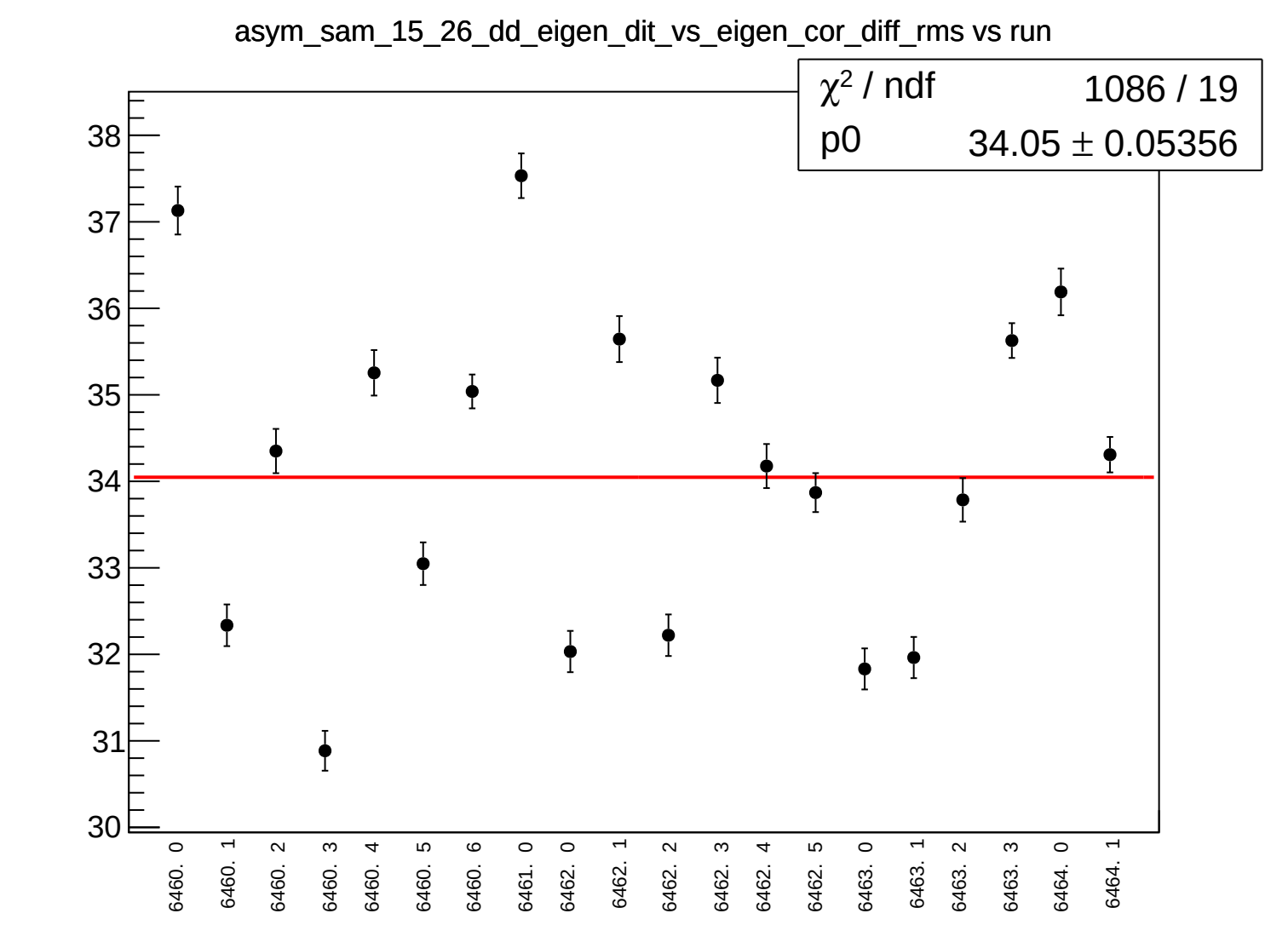

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 794.2 / 19
p0 0.002392 ± 3.762e−06
0.0026
0.0025
0.0024
0.0023
0.0022
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

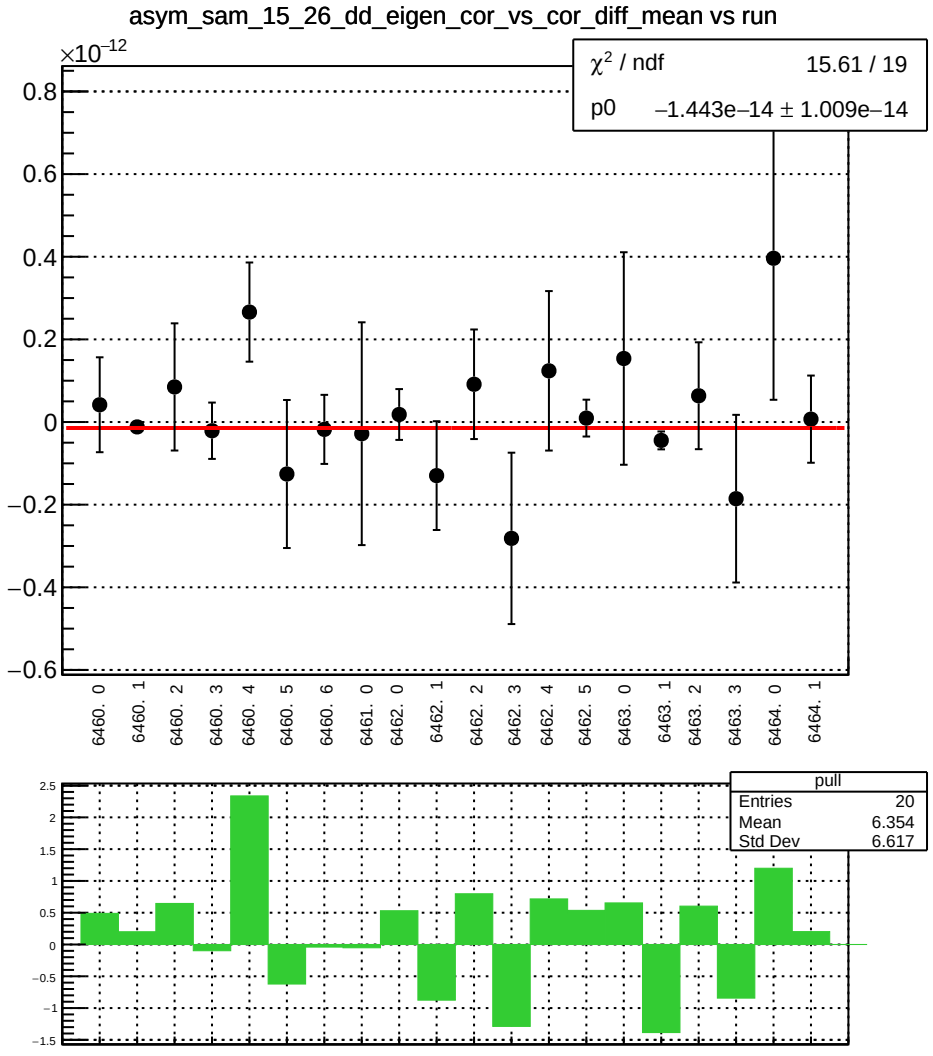

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 12.66 / 19
p0 −0.05 ± 0.07574
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −56.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02683
Std Dev 0.795
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

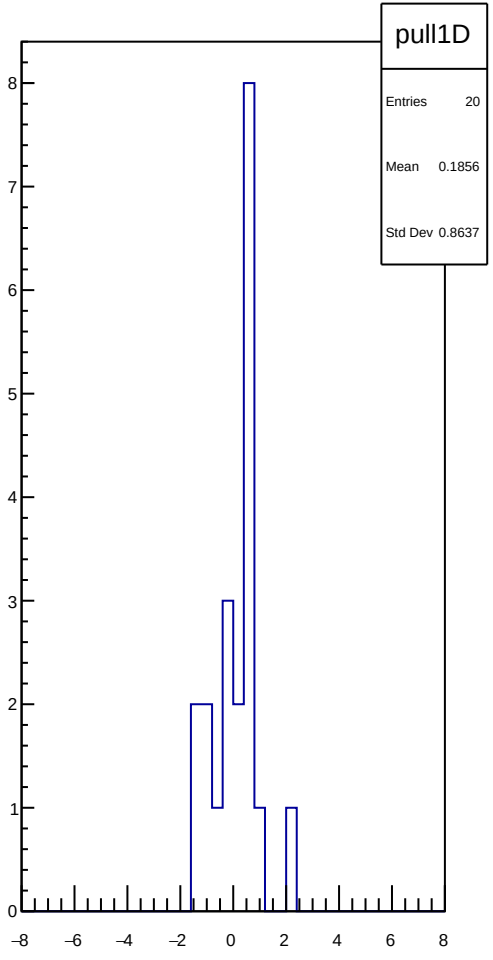

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1086 / 19
p0 34.05 ± 0.05356
38
37
36
35
34
33
32
31
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

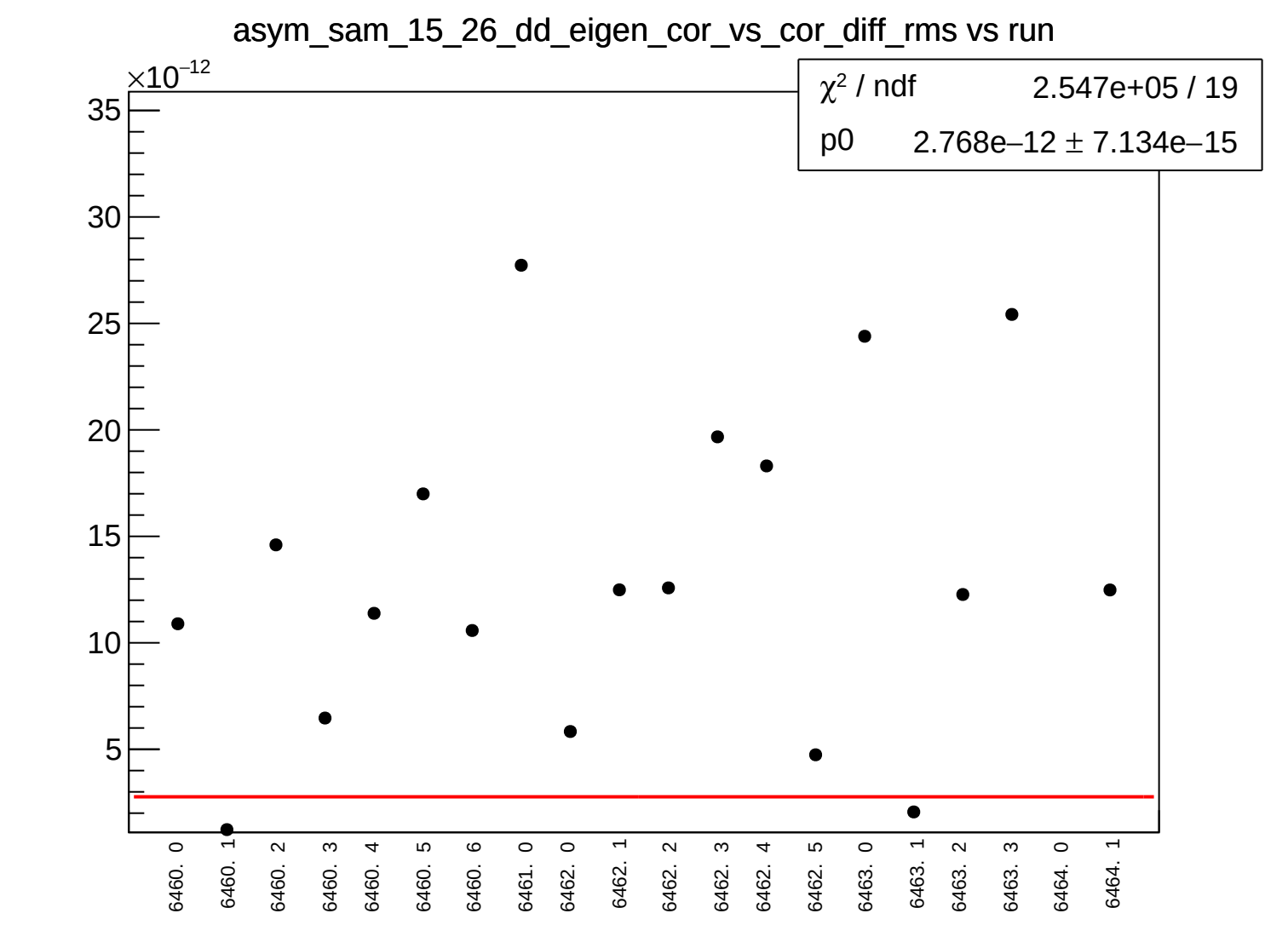

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.66 / 19
p0 −0.05 ± 0.07574
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −56.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

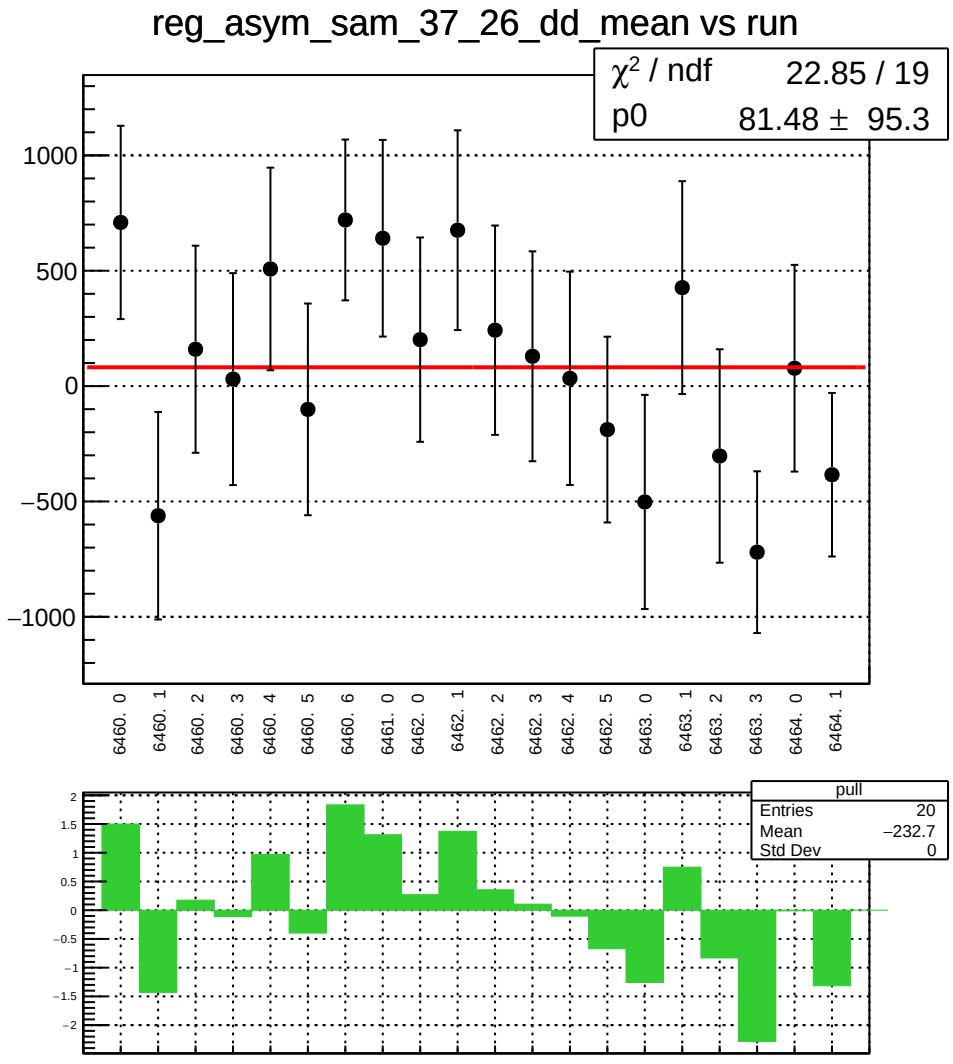

pull1D
Entries 20
Mean −0.02683
Std Dev 0.795
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

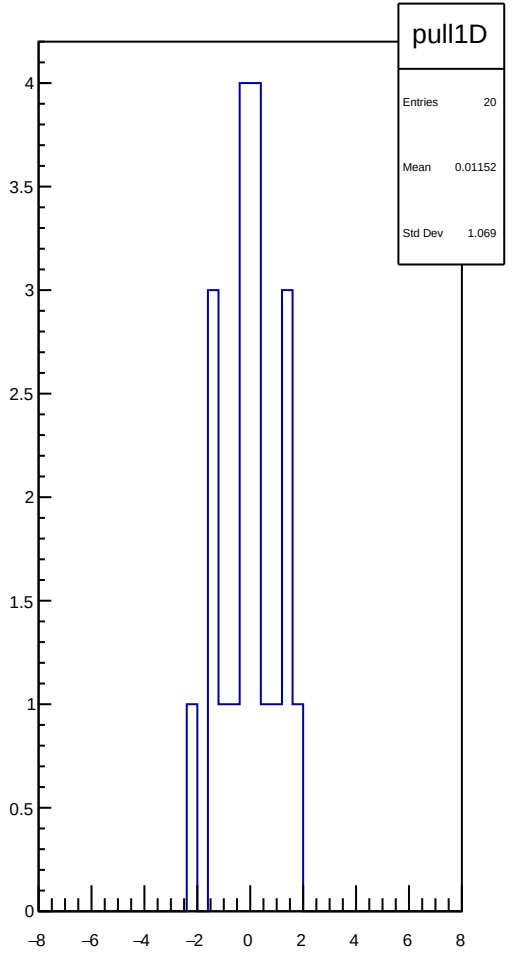

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1086 / 19
p0 34.05 ± 0.05356
38
37
36
35
34
33
32
31
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

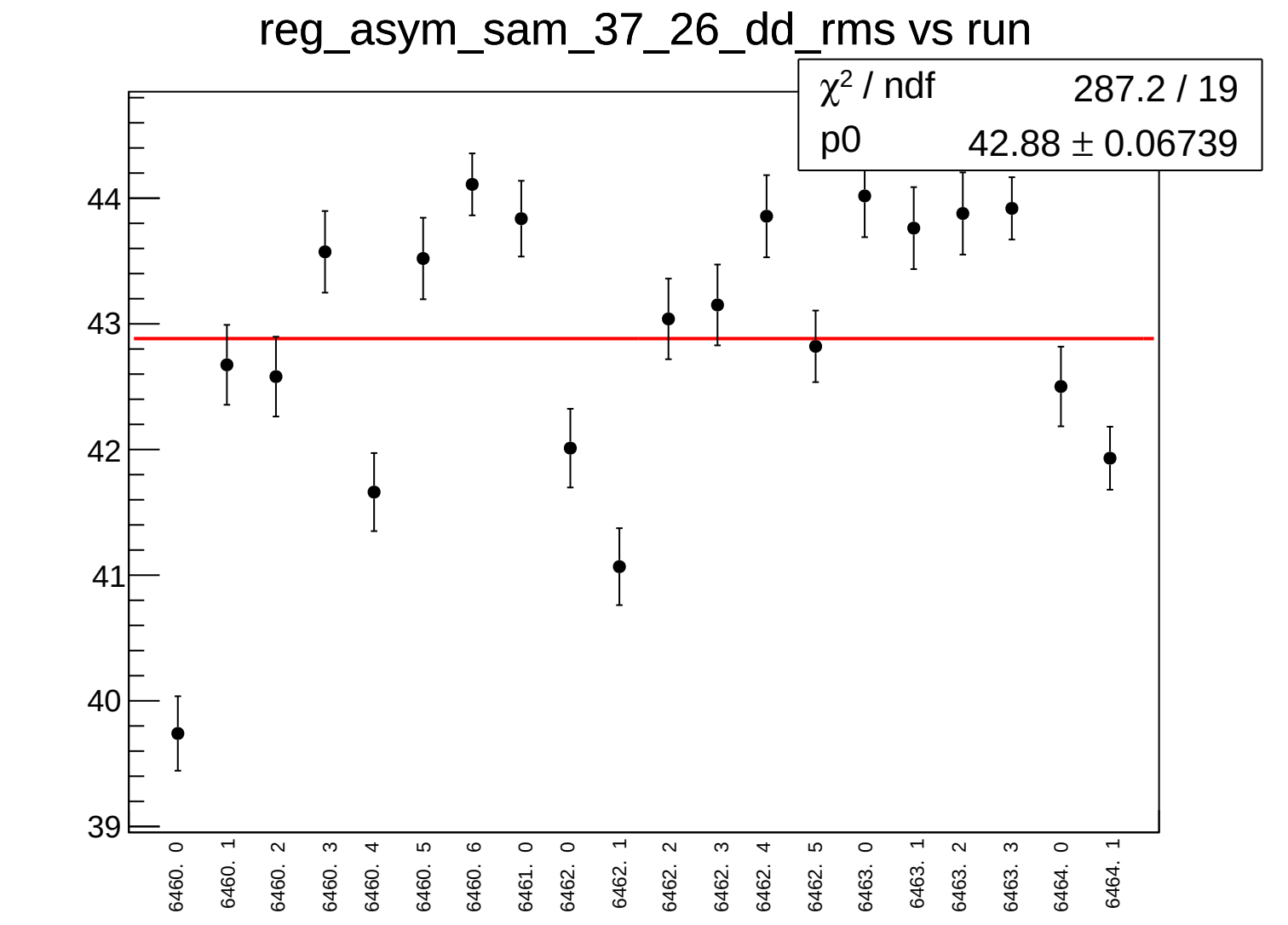

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 15.61 / 19
p0 −1.443e−14 ± 1.009e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.354
Std Dev 6.617
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

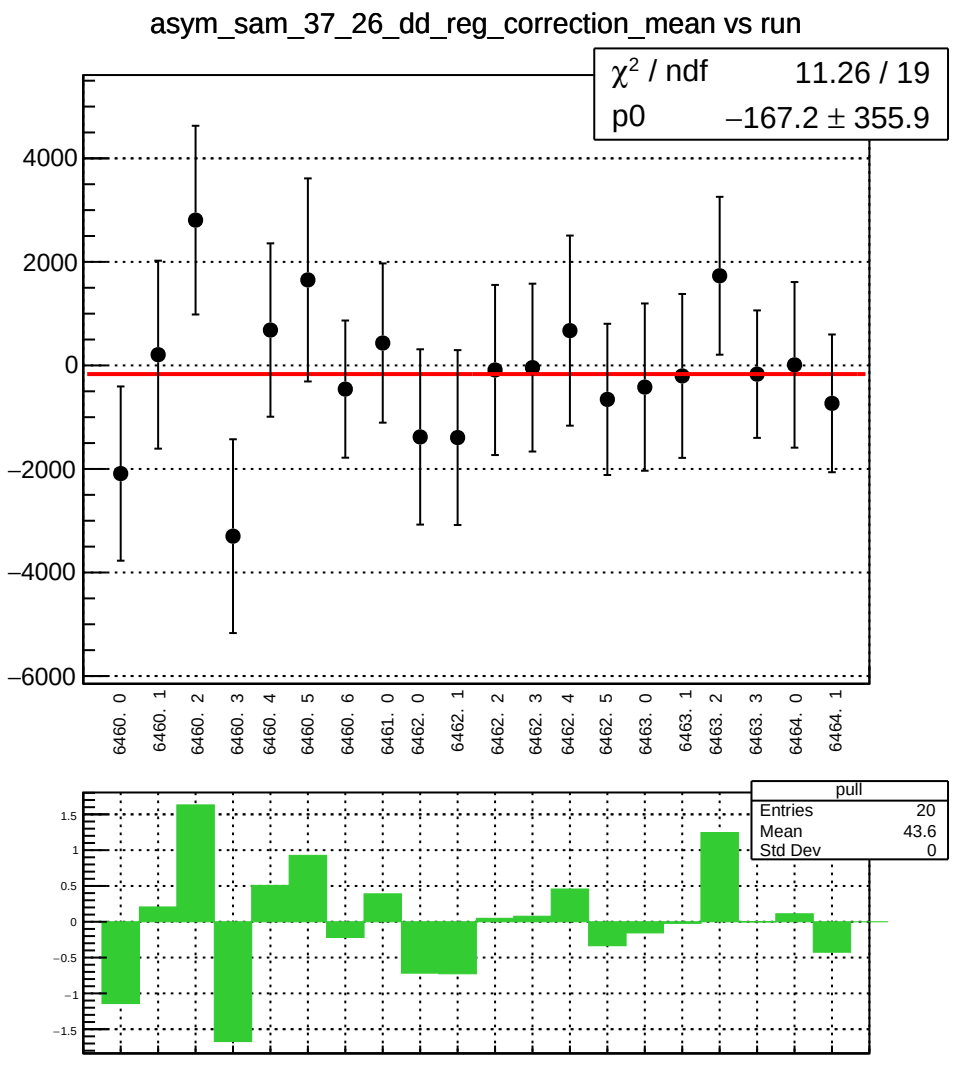

pull1D
Entries 20
Mean 0.1856
Std Dev 0.8637
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

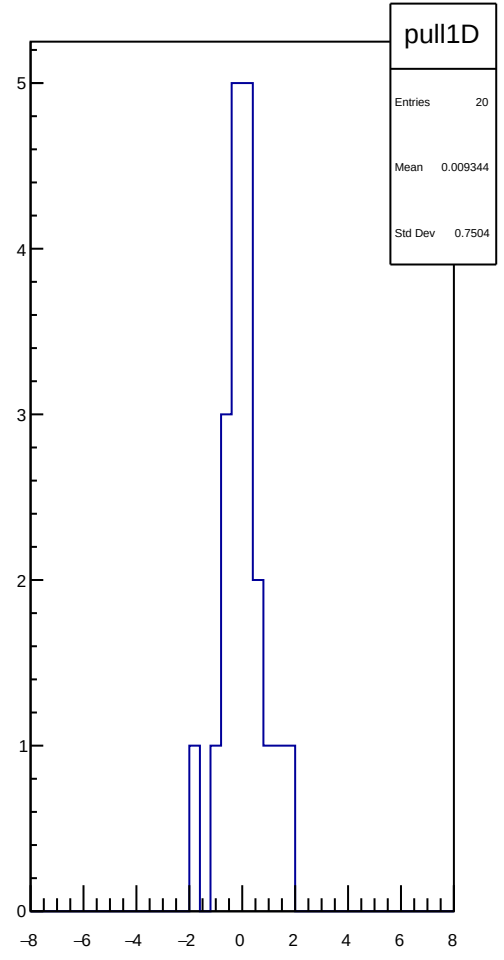

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.547e+05 / 19
p0 2.768e−12 ± 7.134e−15
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

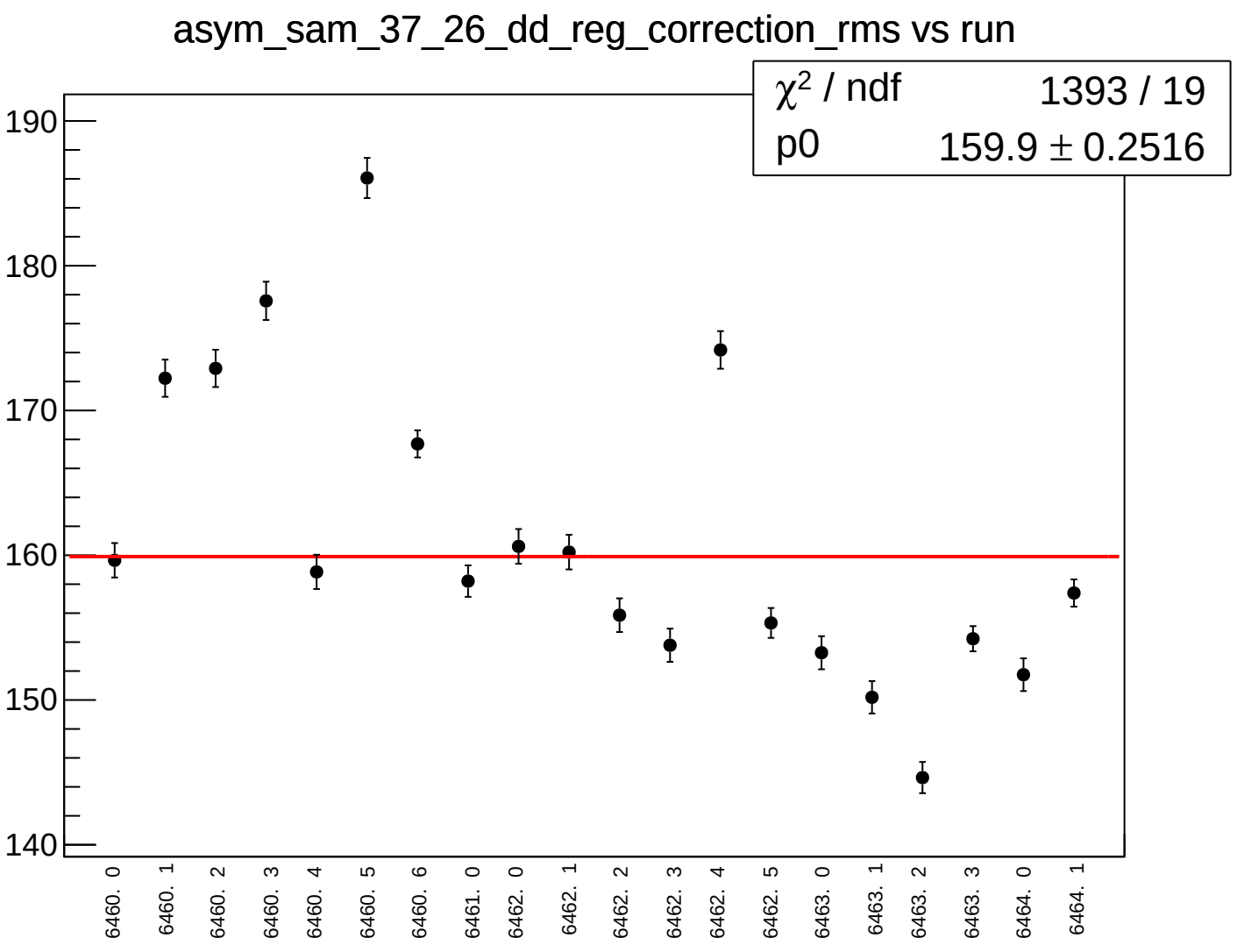

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 22.85 / 19
p0 81.48 ± 95.3
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −232.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

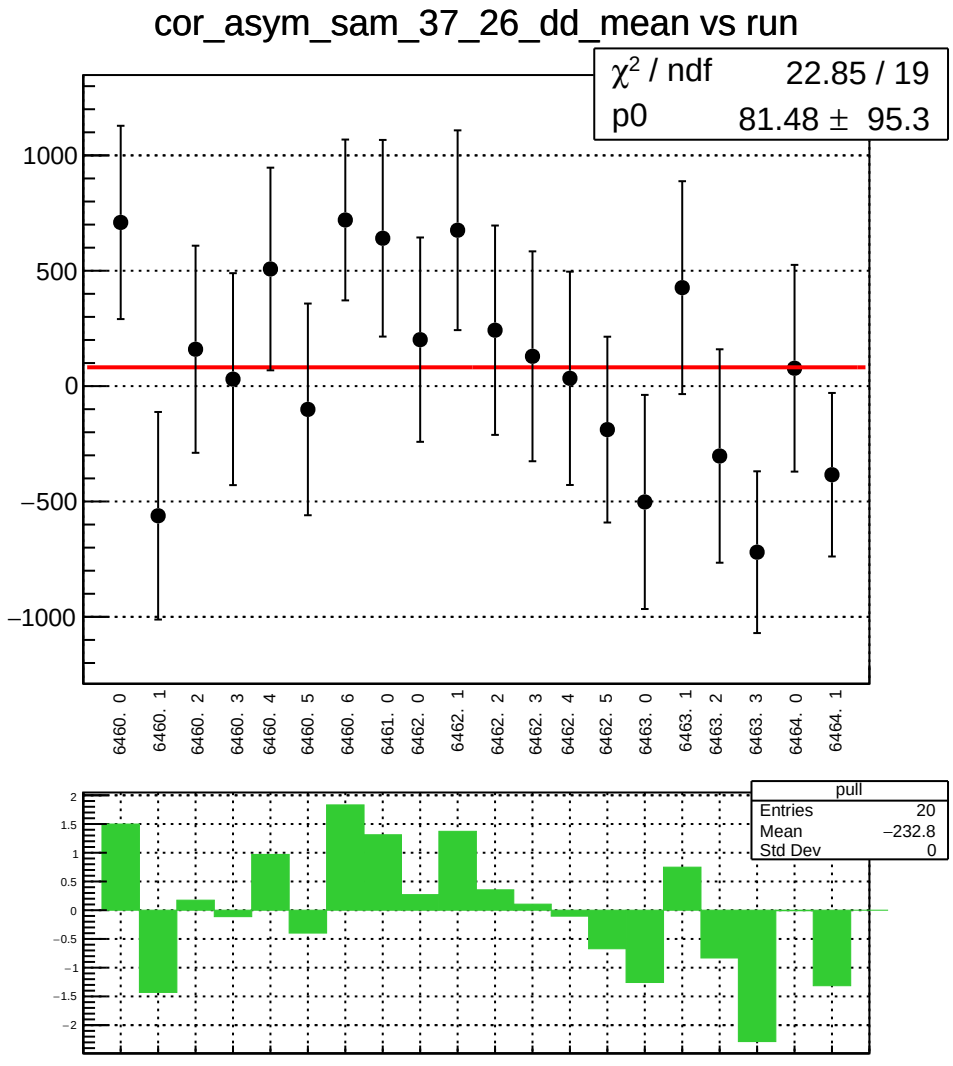

pull1D
Entries 20
Mean 0.01152
Std Dev 1.069
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

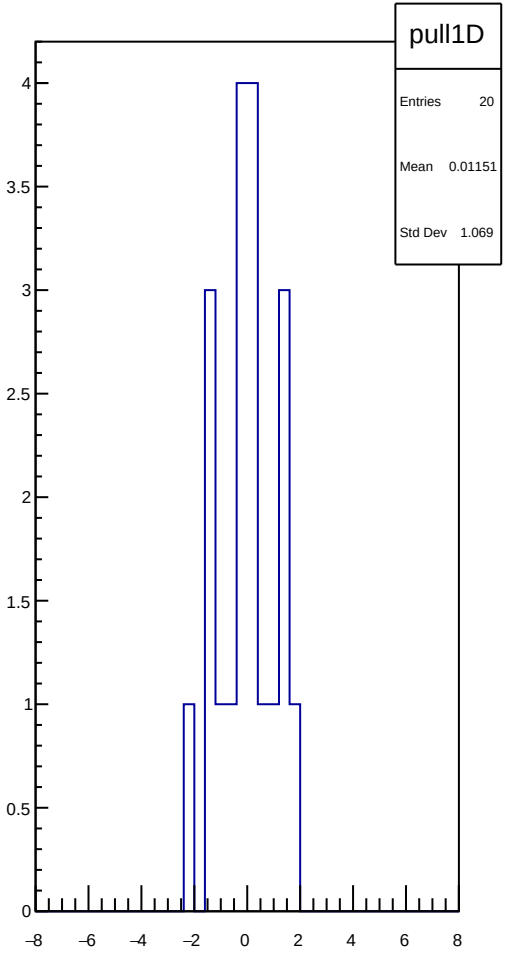

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 287.2 / 19
p0 42.88 ± 0.06739
44
43
42
41
40
39
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

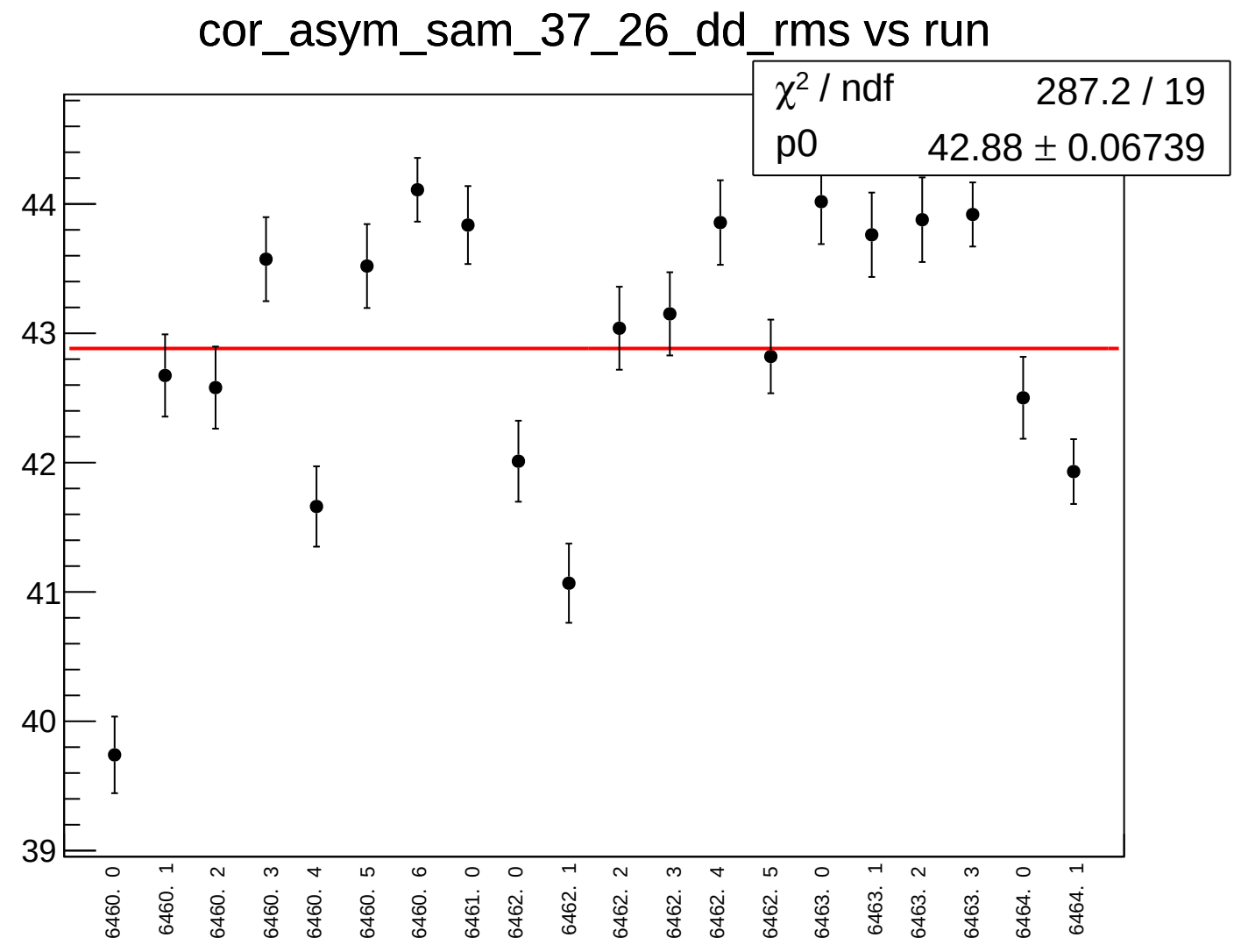

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 11.26 / 19
p0 −167.2 ± 355.9
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 43.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

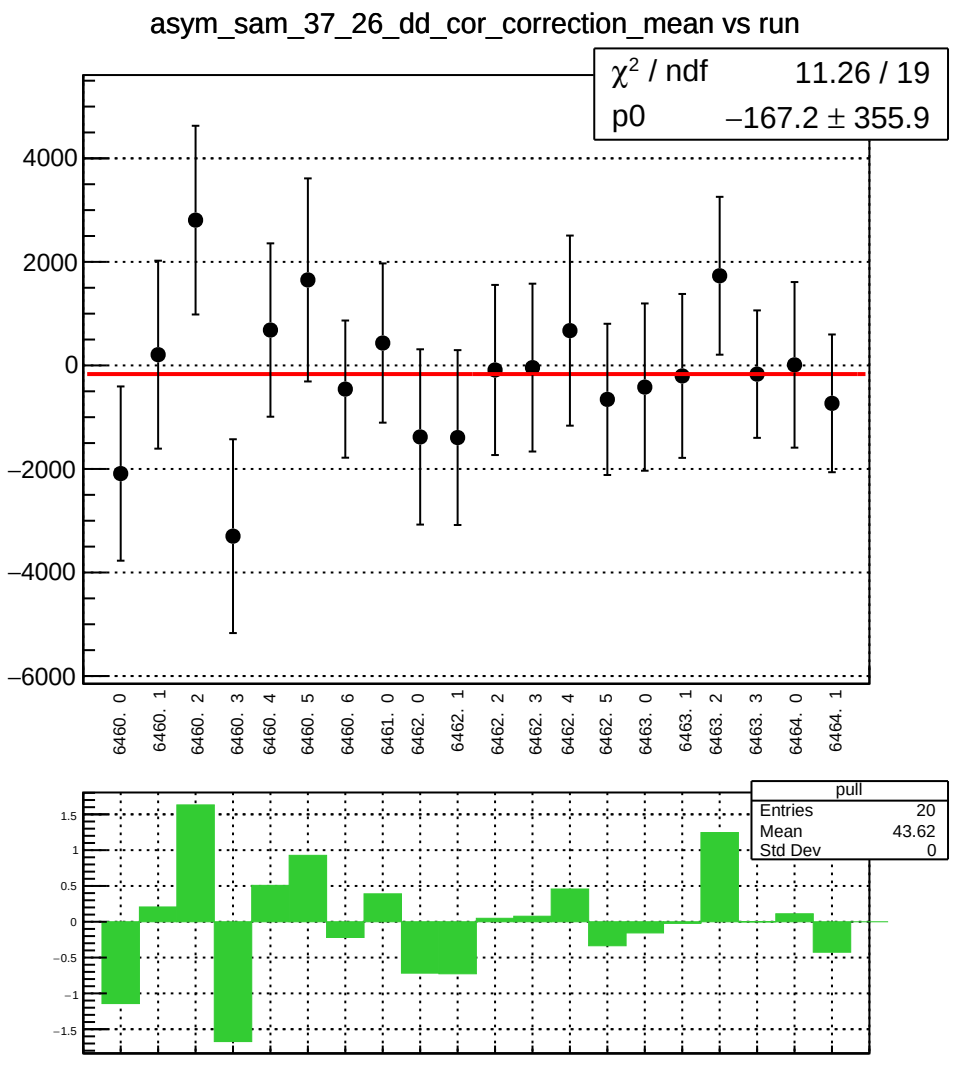

pull1D
Entries 20
Mean 0.009344
Std Dev 0.7504
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

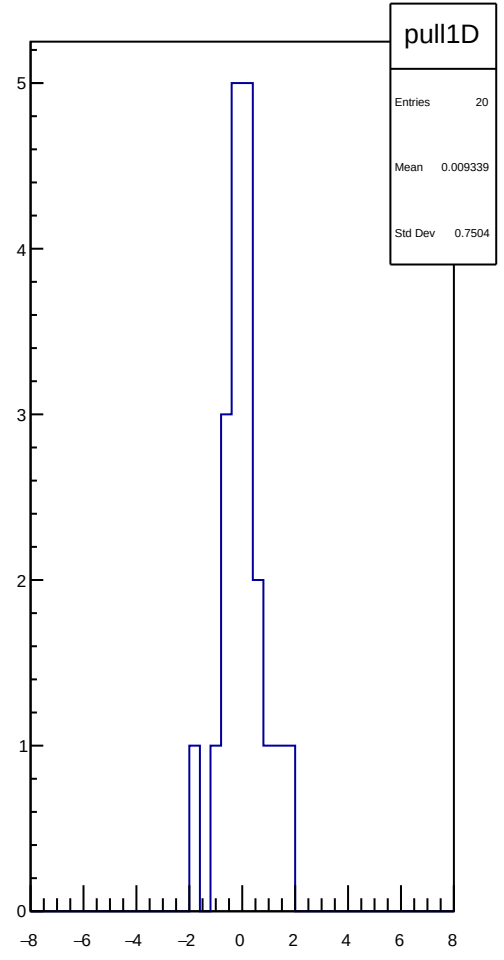

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1393 / 19
p0 159.9 ± 0.2516
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

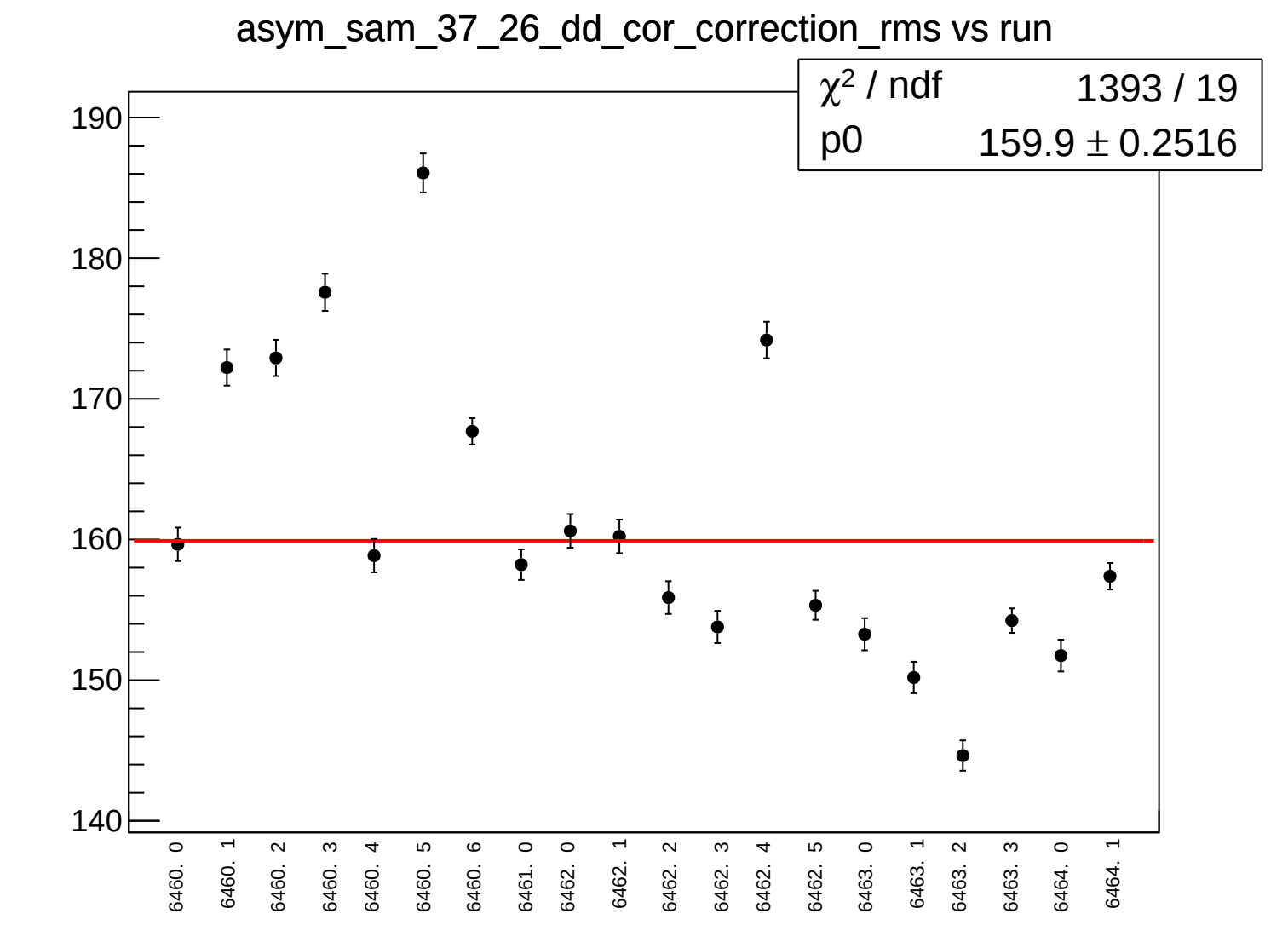

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 22.85 / 19
p0 81.48 ± 95.3
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −232.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

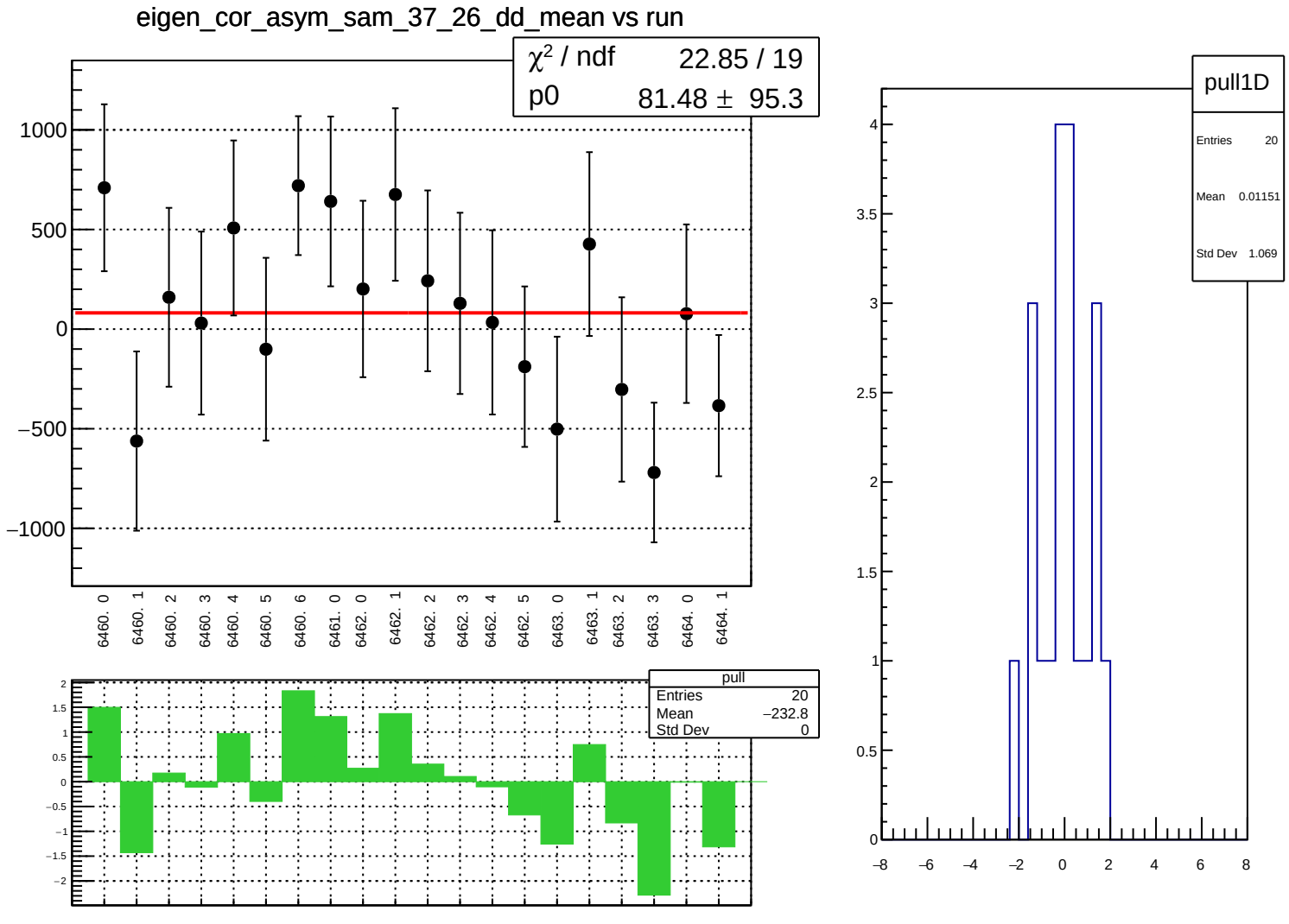

pull1D
Entries 20
Mean 0.01151
Std Dev 1.069
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

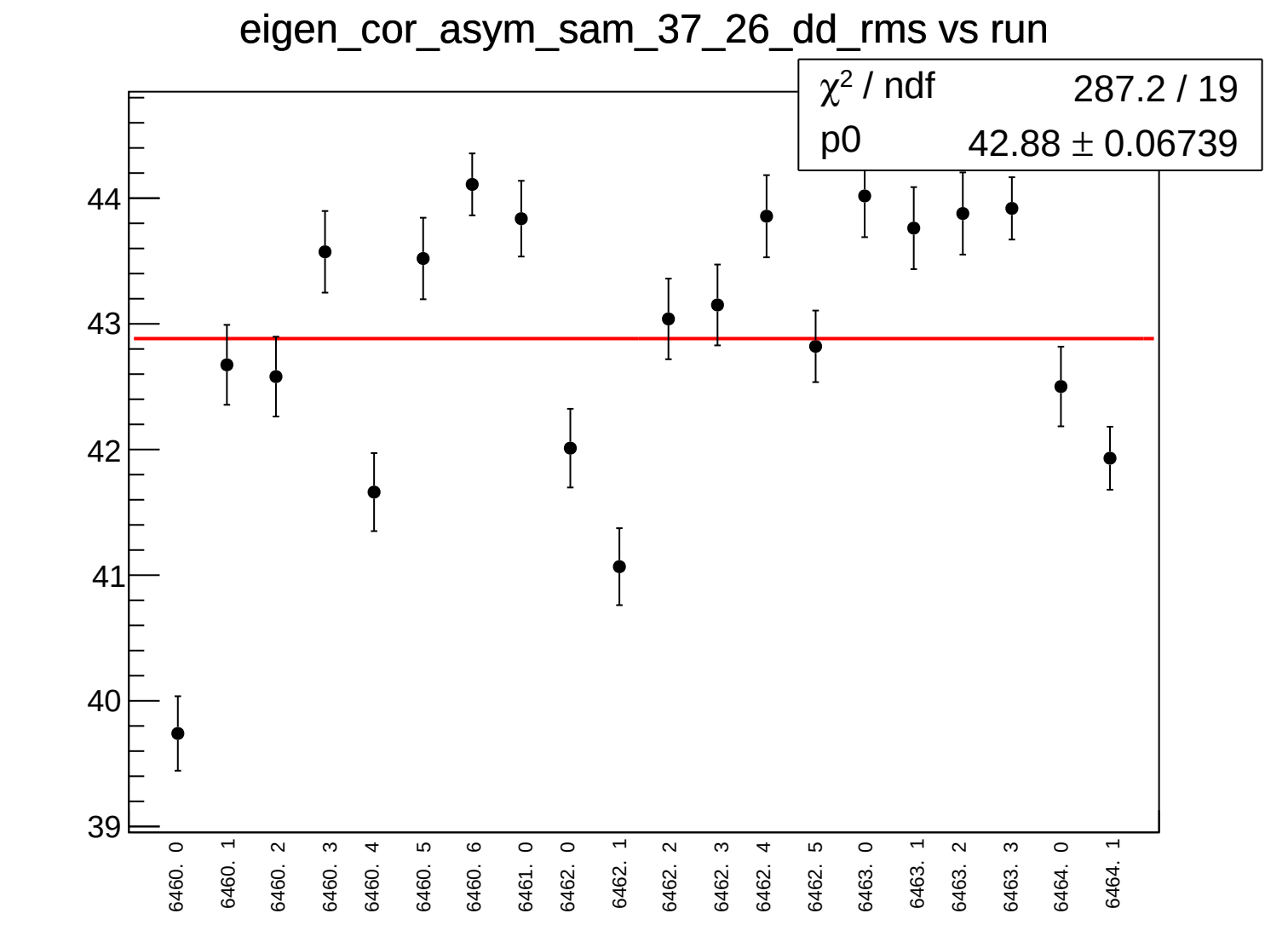

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 287.2 / 19
p0 42.88 ± 0.06739
44
43
42
41
40
39
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

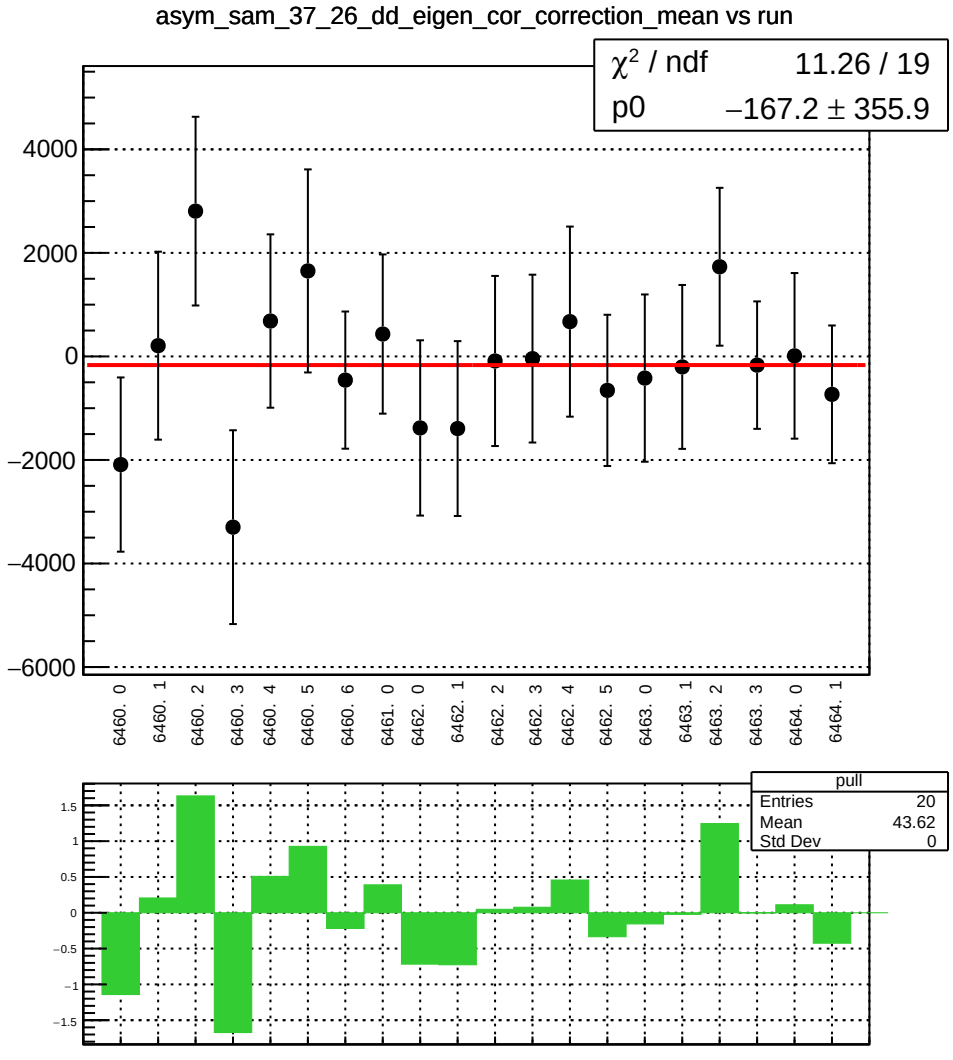

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 11.26 / 19
p0 −167.2 ± 355.9
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 43.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

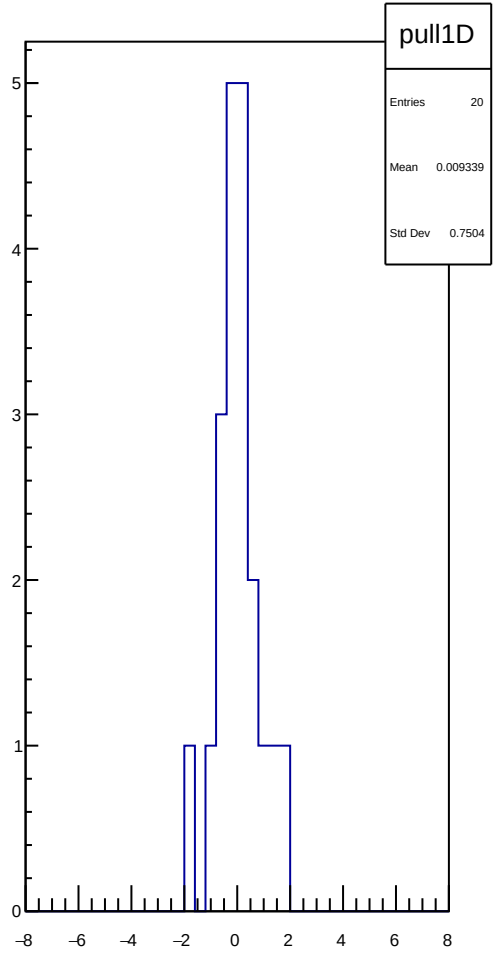

pull1D
Entries 20
Mean 0.009339
Std Dev 0.7504
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

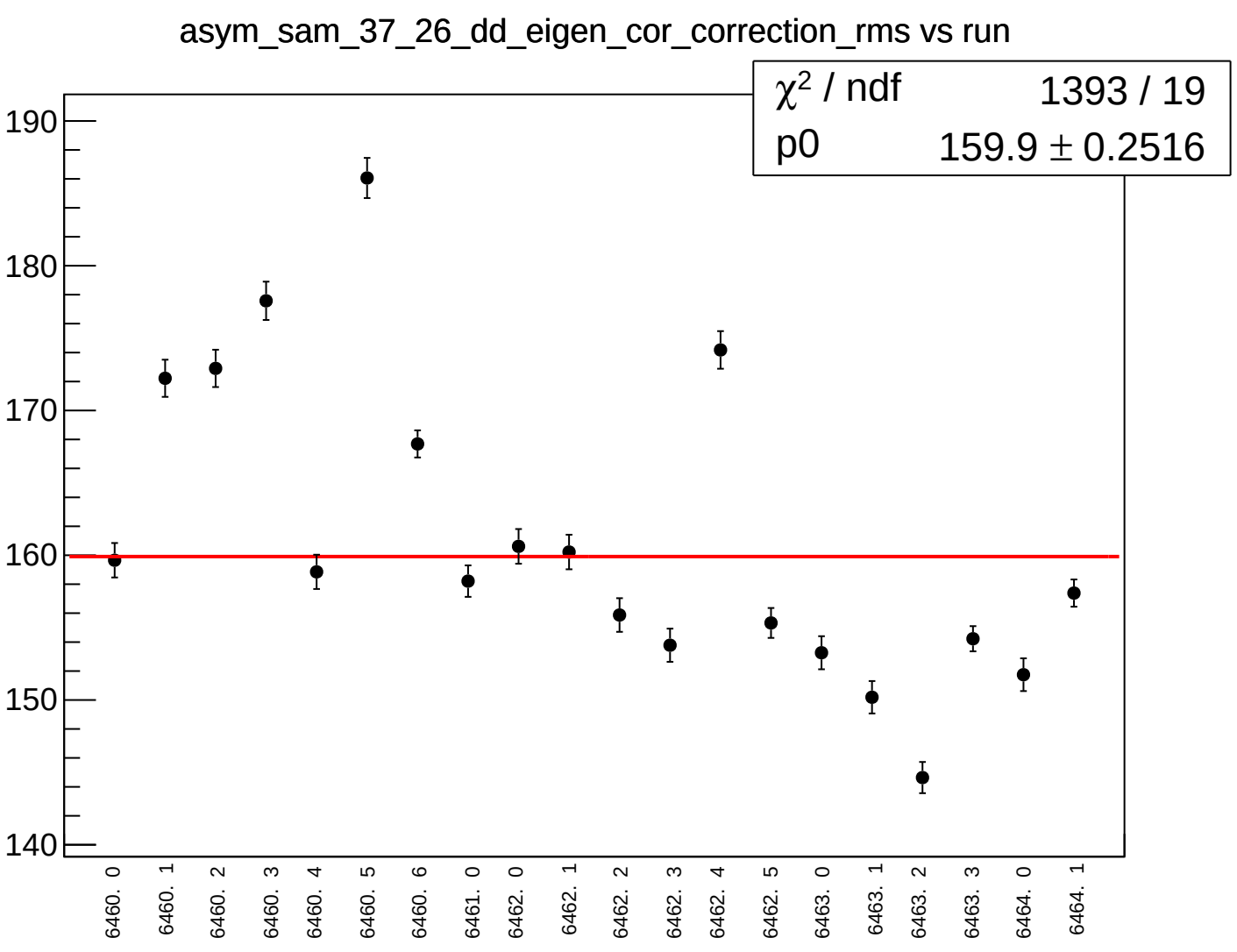

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1393 / 19
p0 159.9 ± 0.2516
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

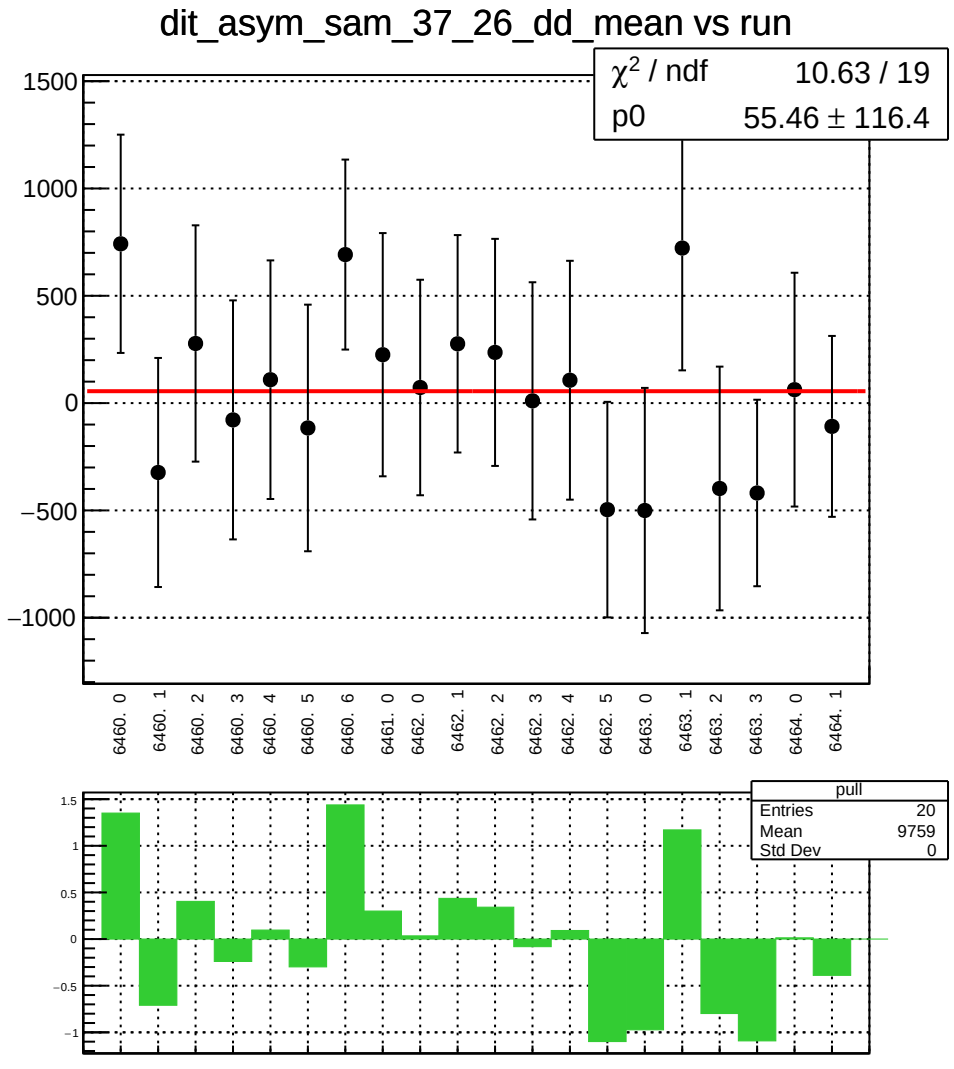

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 22.85 / 19
p0 81.48 ± 95.3
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −232.8
Std Dev 0
pull1D
Entries 20
Mean 0.01151
Std Dev 1.069

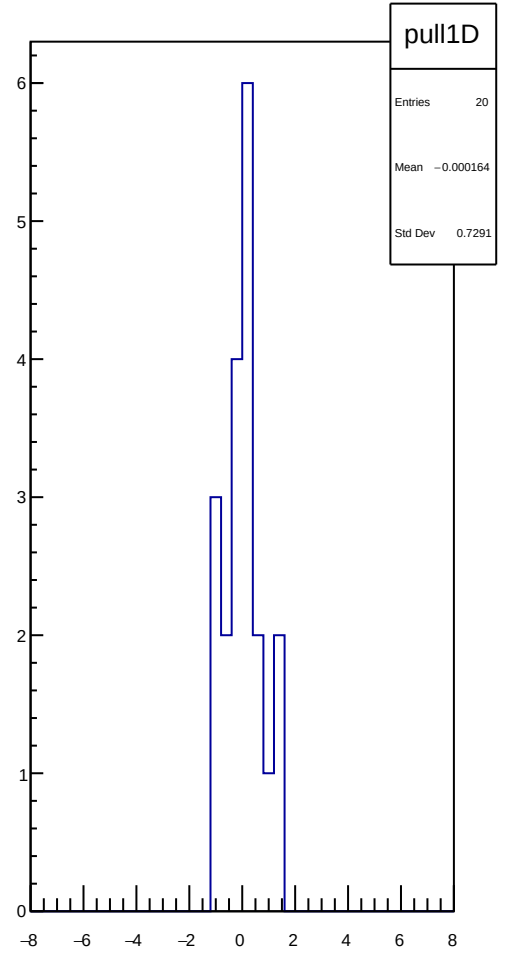

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 287.2 / 19
p0 42.88 ± 0.06739
44
43
42
41
40
39
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

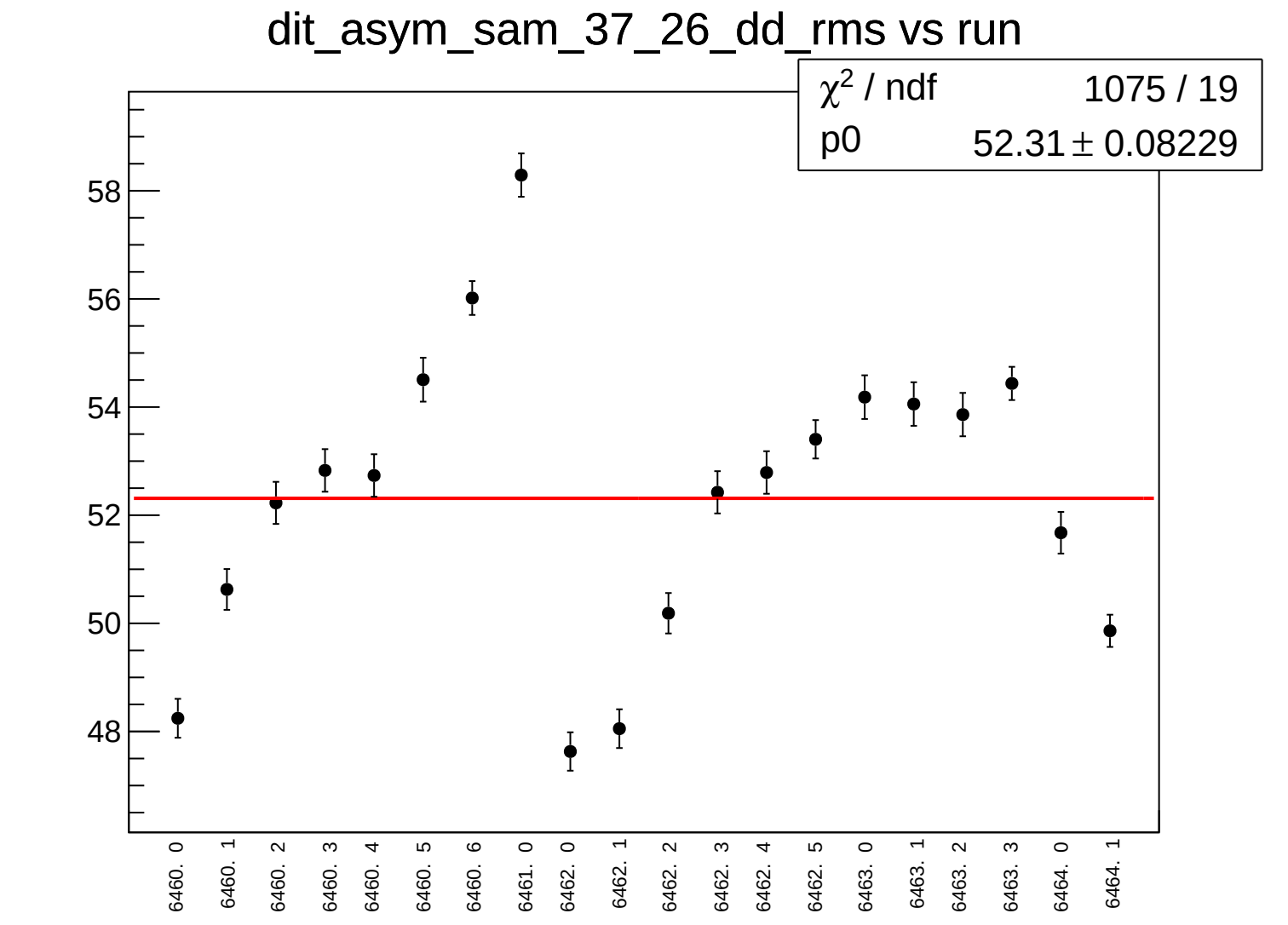

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 11.26 / 19
p0 −167.2 ± 355.9
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 43.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

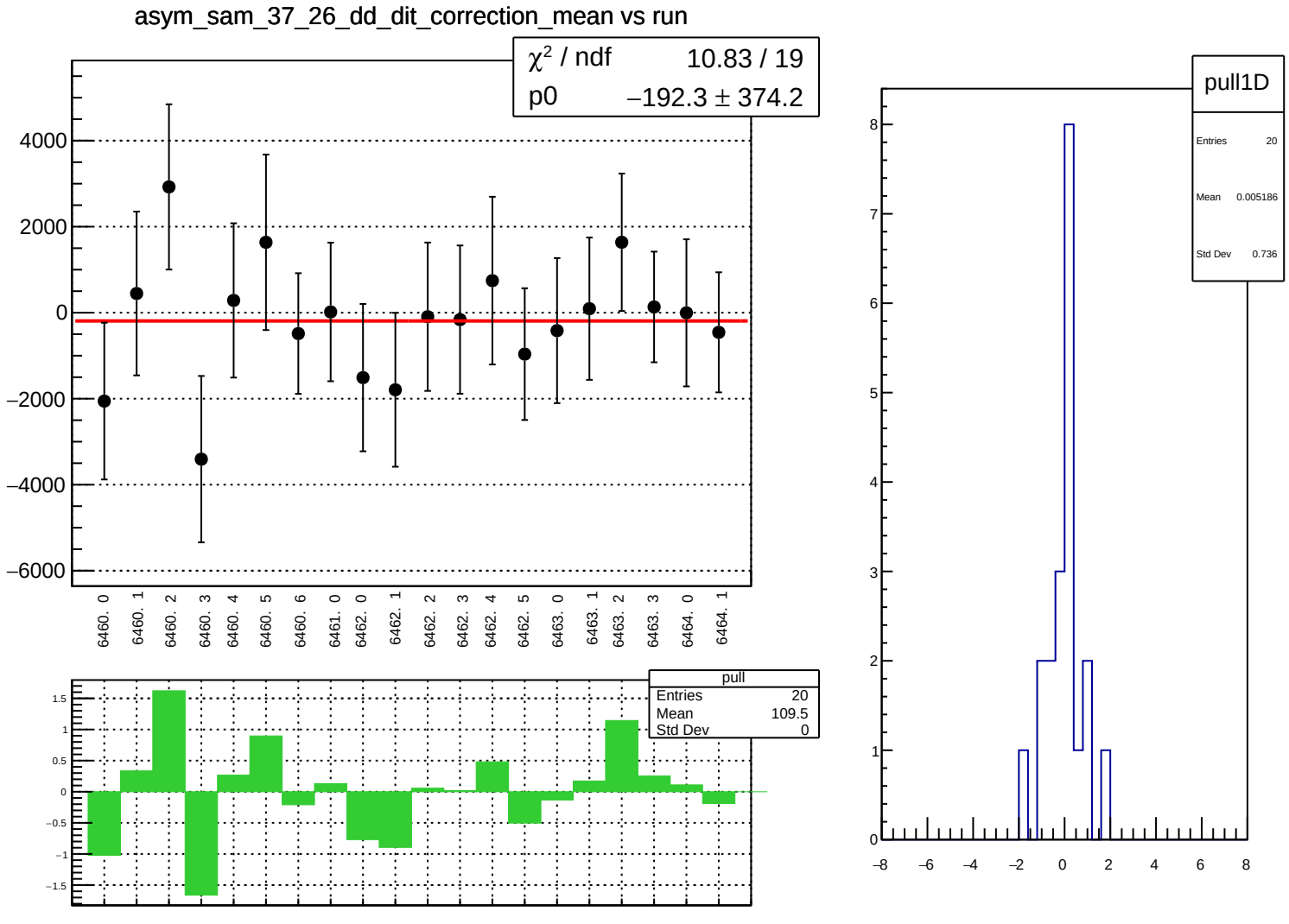

pull1D
Entries 20
Mean 0.009339
Std Dev 0.7504
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

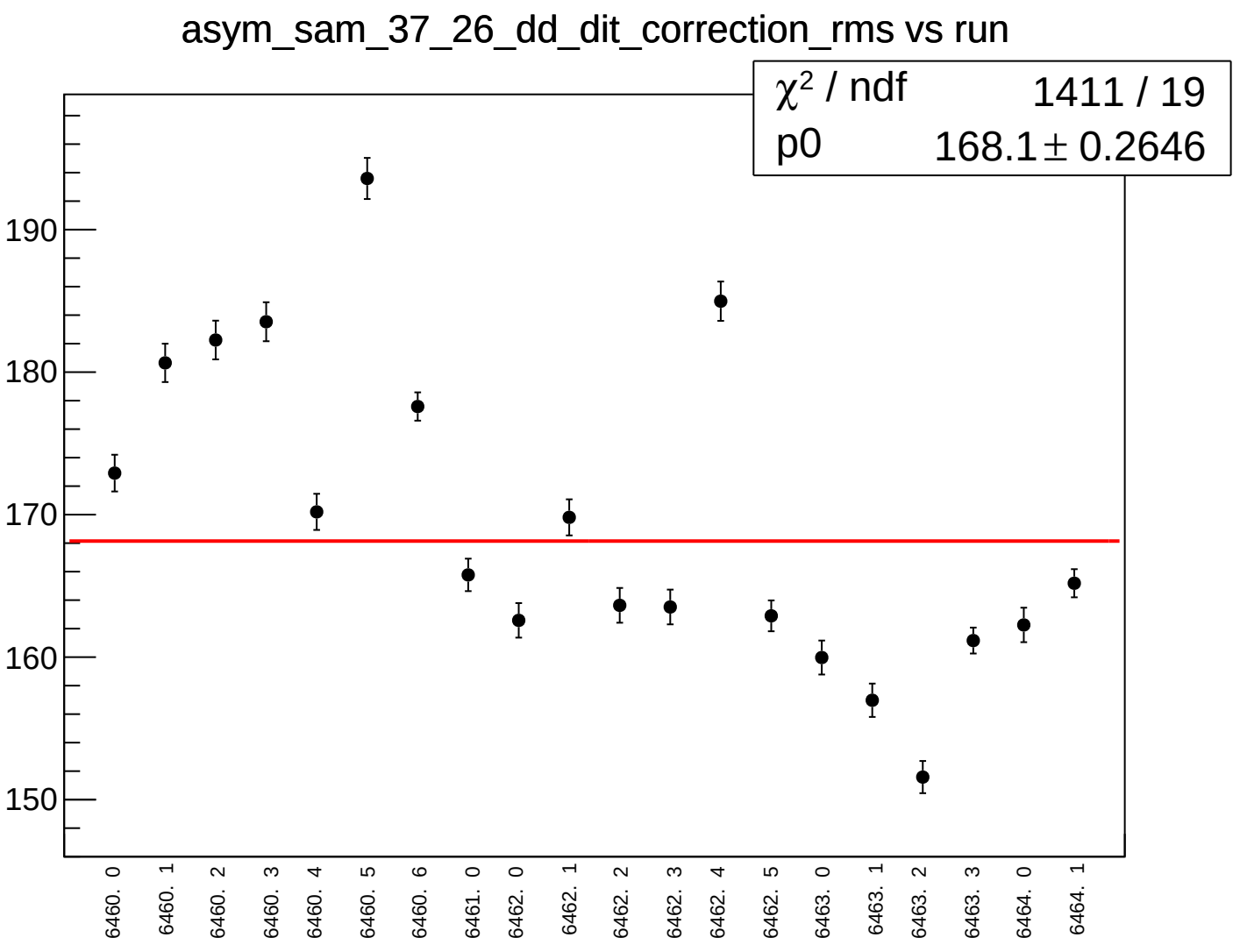

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1393 / 19
p0 159.9 ± 0.2516
190
180
170
160
150
140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

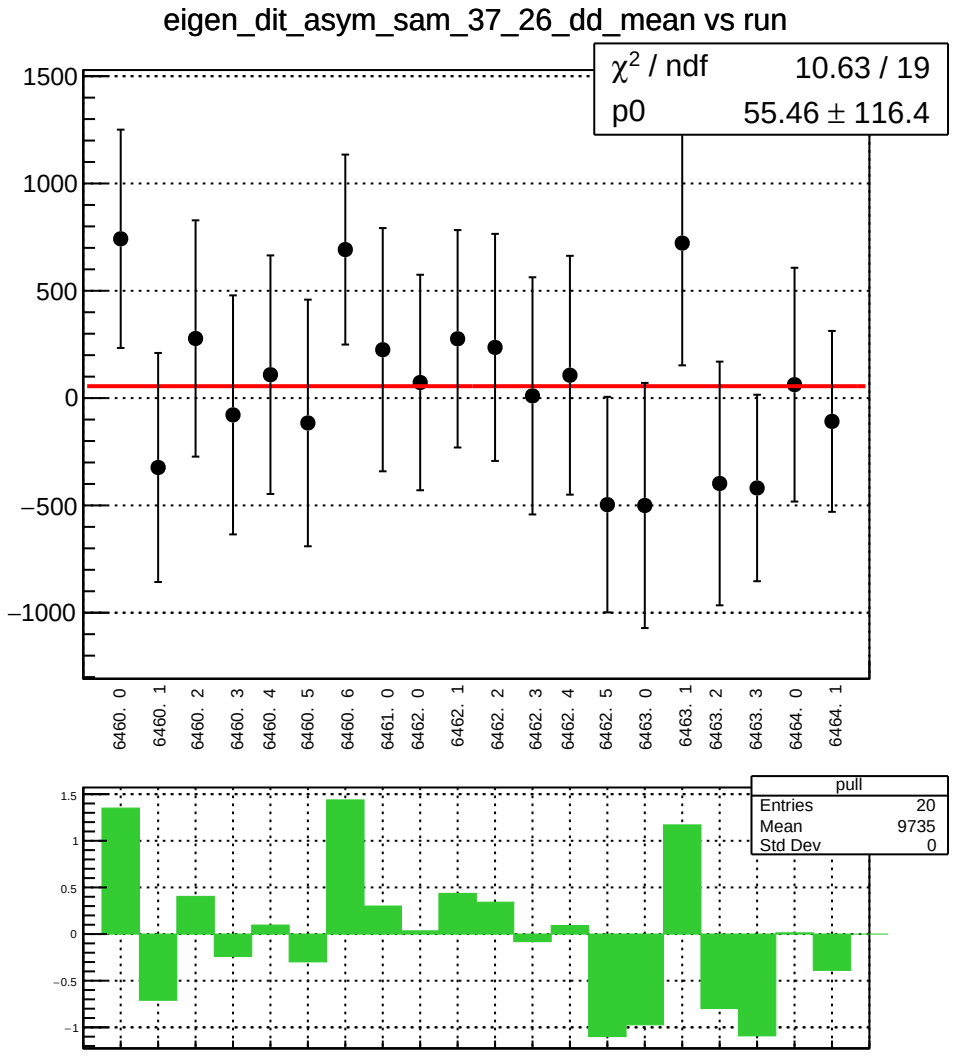

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 10.63 / 19
p0 55.46 ± 116.4
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9759
Std Dev 0
1.5
1
0.5
0
−0.5
−1

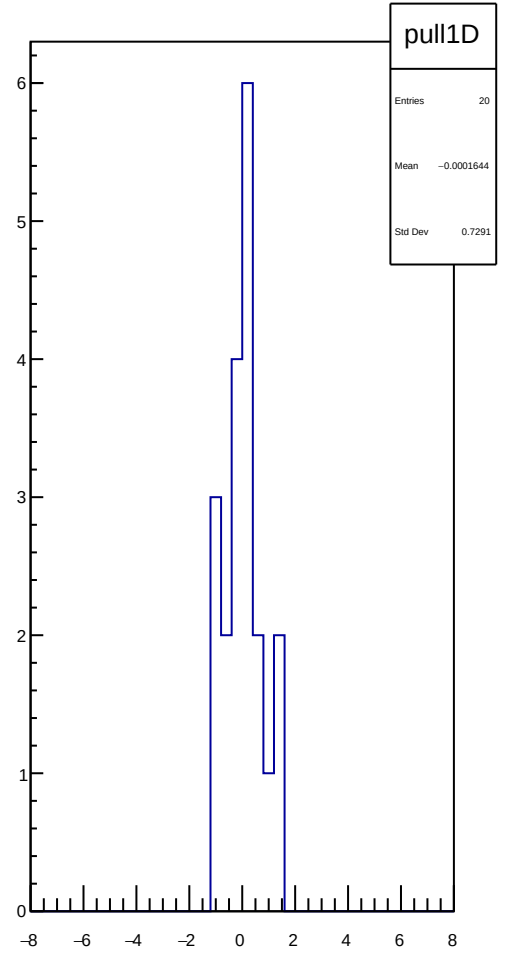

pull1D
Entries 20
Mean −0.000164
Std Dev 0.7291
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

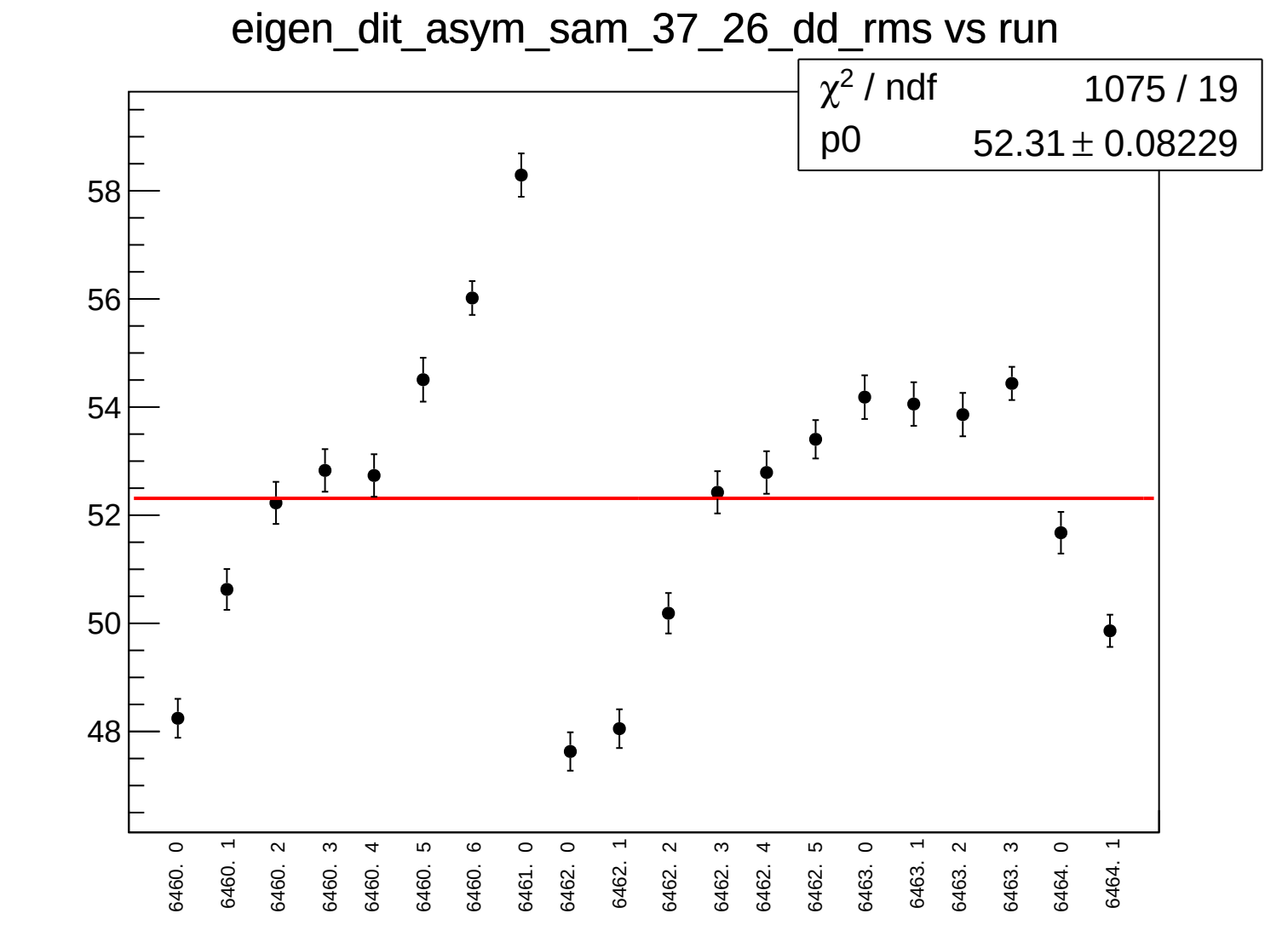

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1075 / 19
p0 52.31 ± 0.08229
58
56
54
52
50
48
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

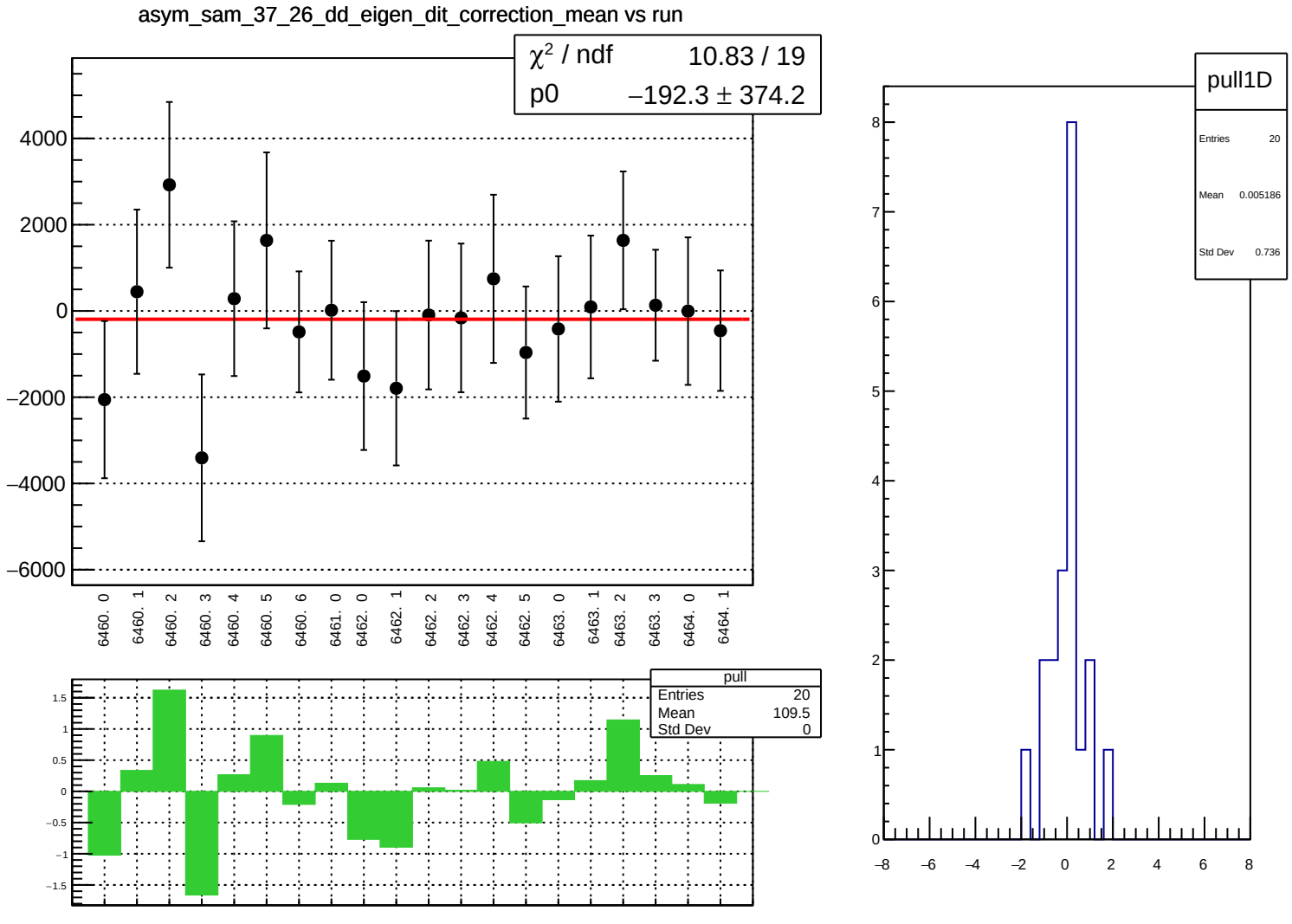

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 10.83 / 19
p0 −192.3 ± 374.2
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 109.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.005186
Std Dev 0.736
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

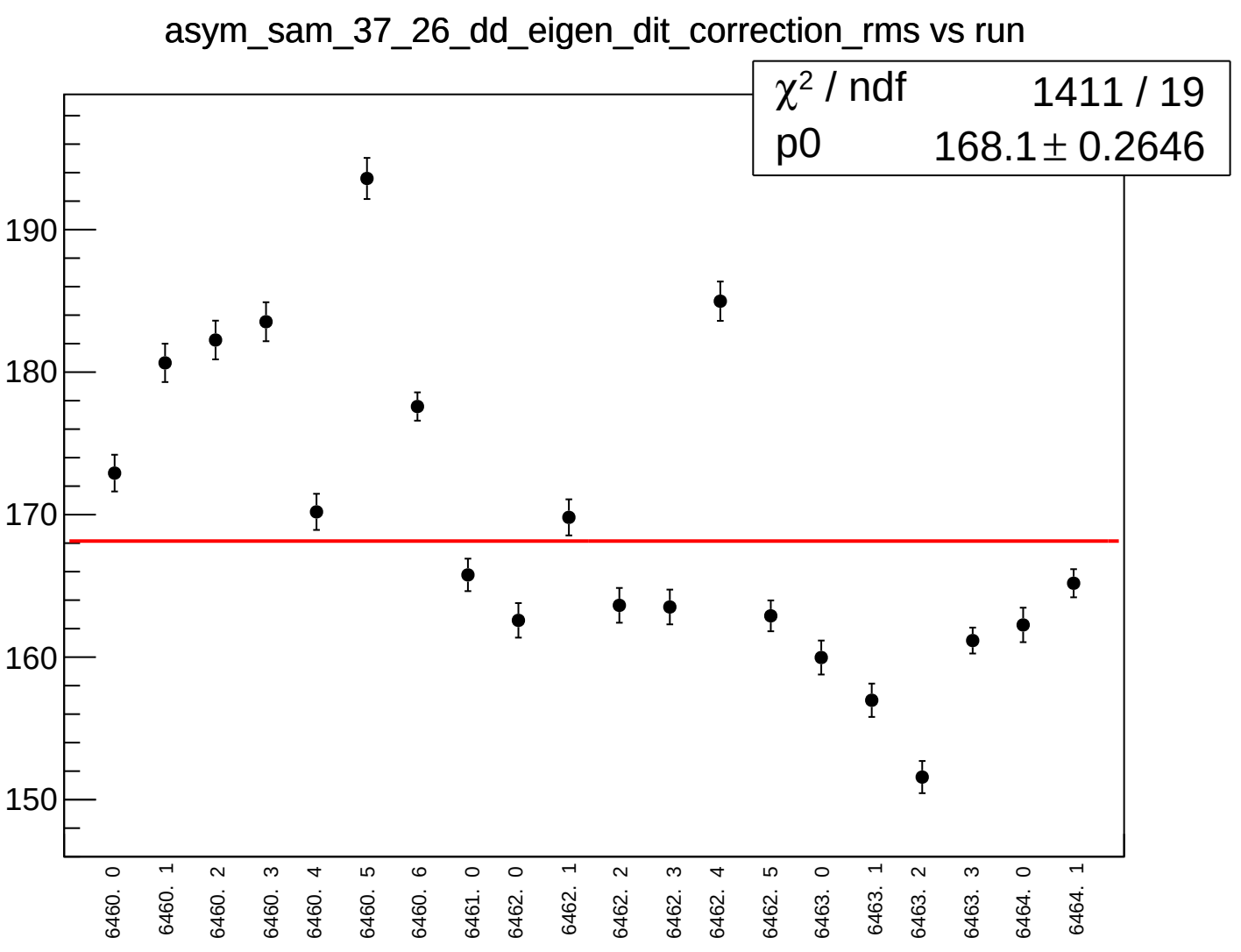

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1411 / 19
p0 168.1 ± 0.2646
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

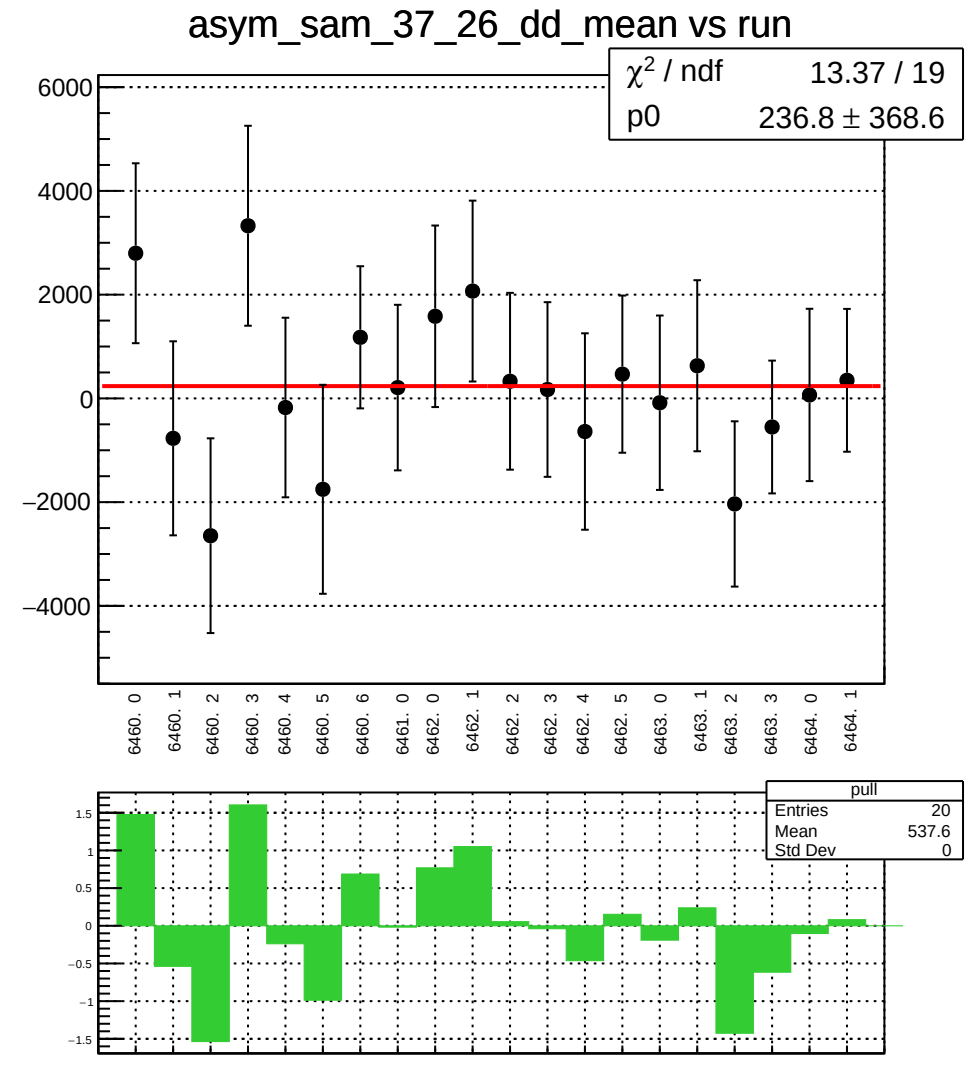

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 10.63 / 19
p0 55.46 ± 116.4
1500
1000
500
0
−500
−1000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 9735
Std Dev 0
1.5
1
0.5
0
−0.5
−1

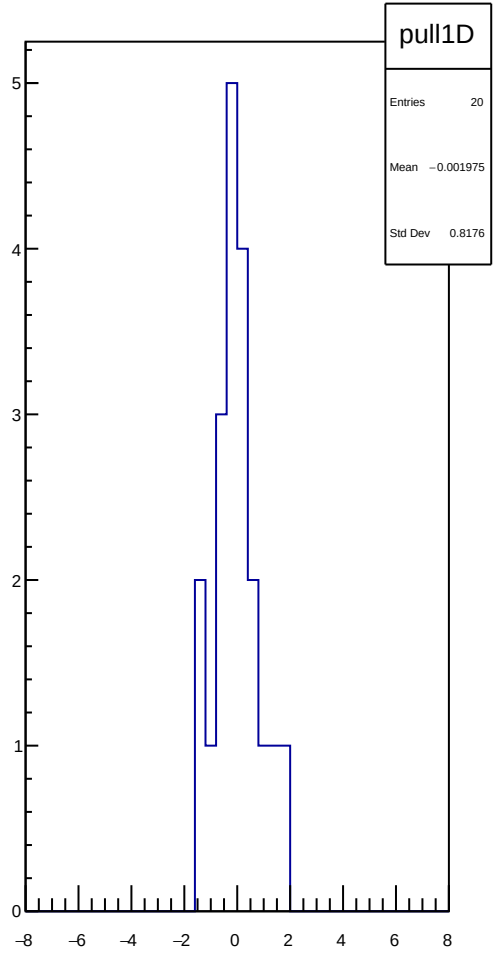

pull1D
Entries 20
Mean −0.0001644
Std Dev 0.7291
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

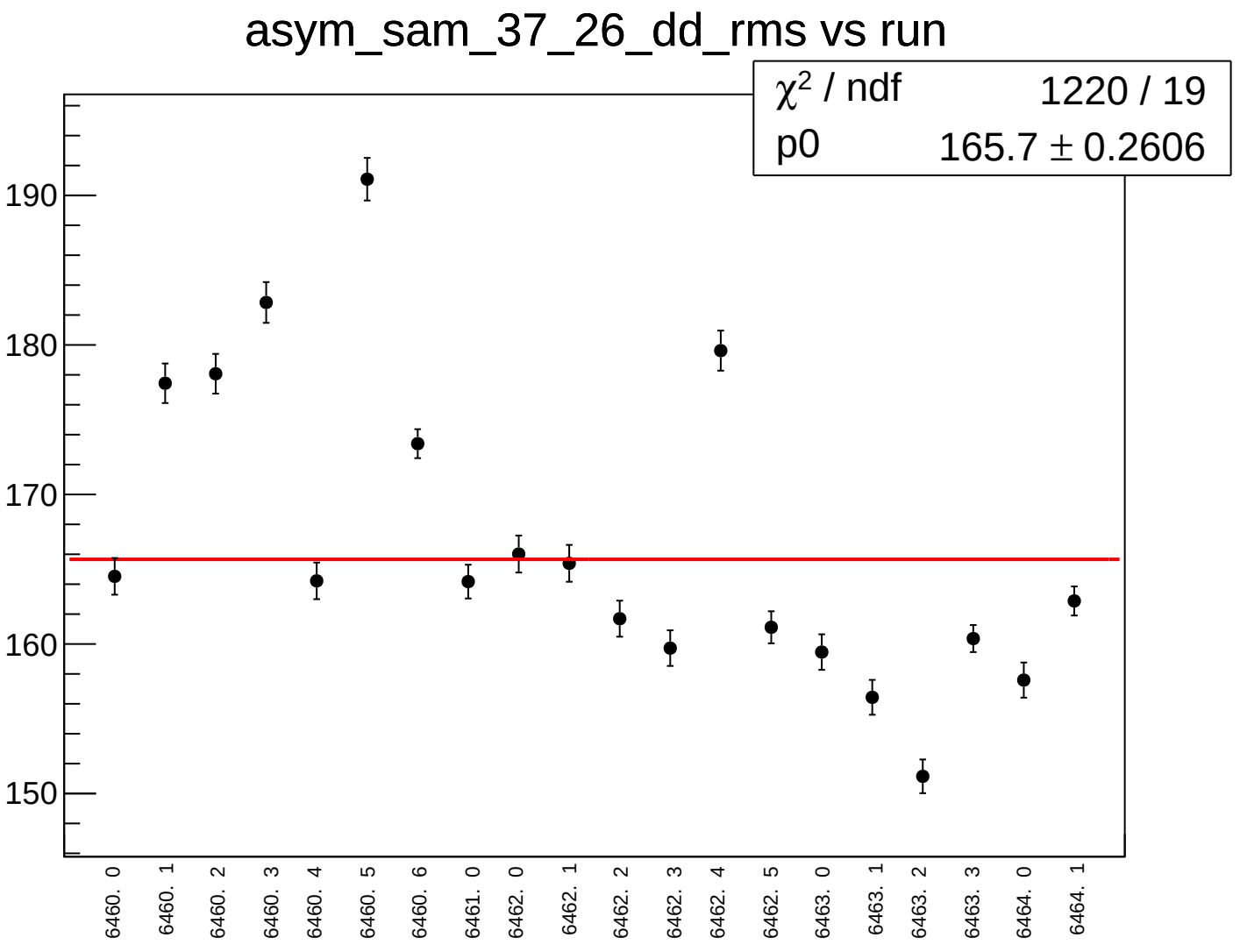

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1075 / 19
p0 52.31 ± 0.08229
58
56
54
52
50
48
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

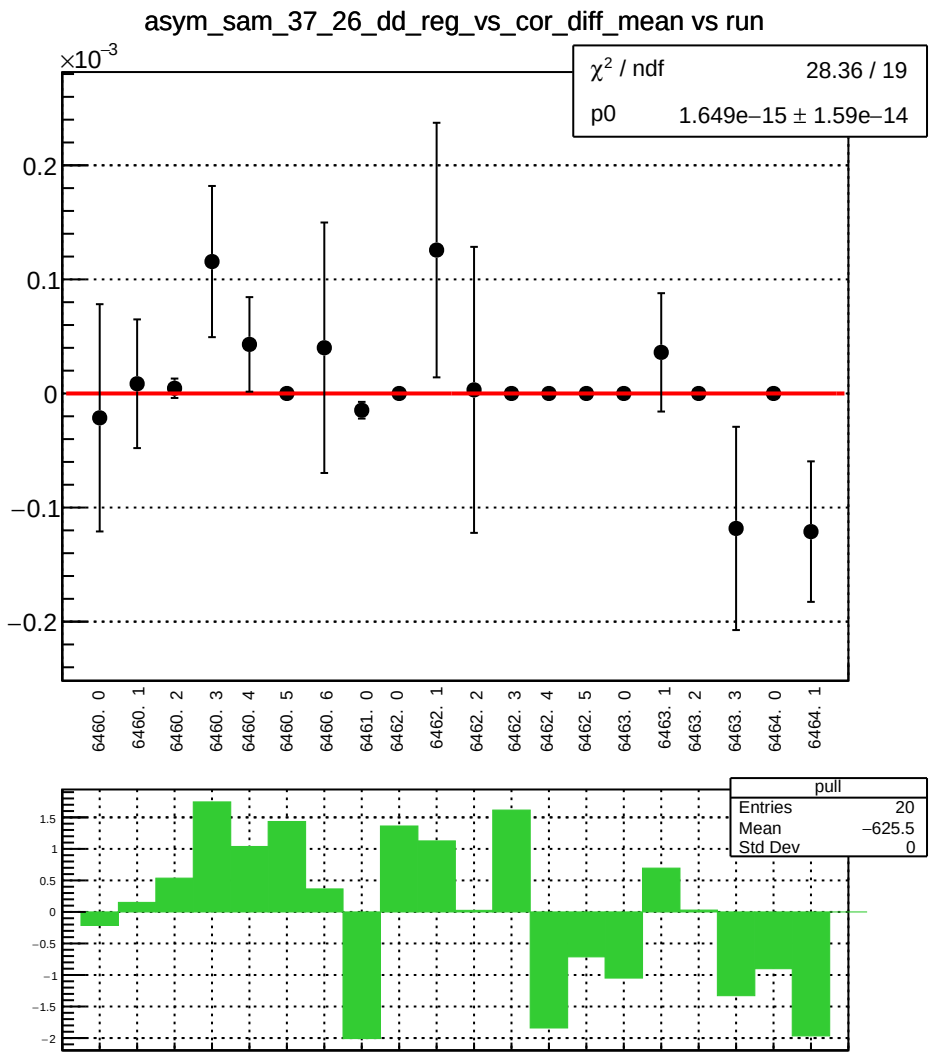

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 10.83 / 19
p0 −192.3 ± 374.2
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 109.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.005186
Std Dev 0.736
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

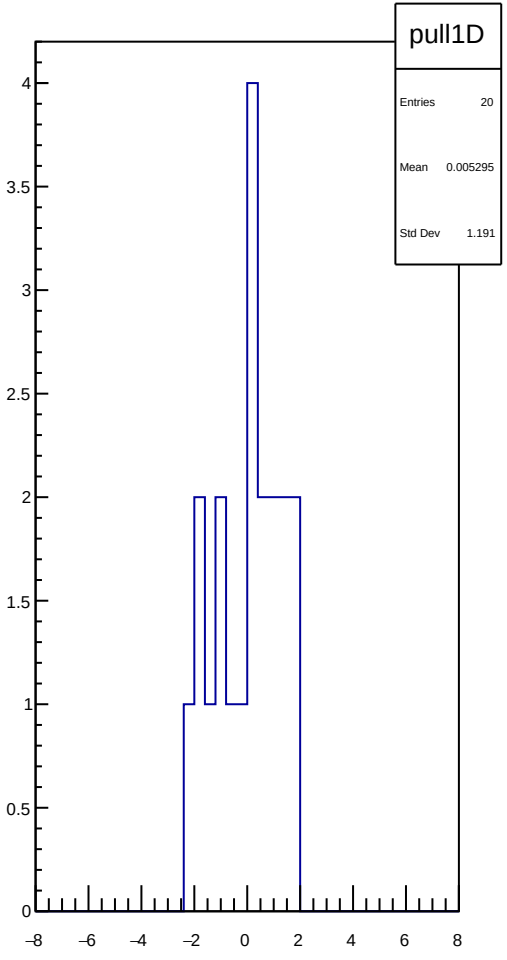

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1411 / 19
p0 168.1 ± 0.2646
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

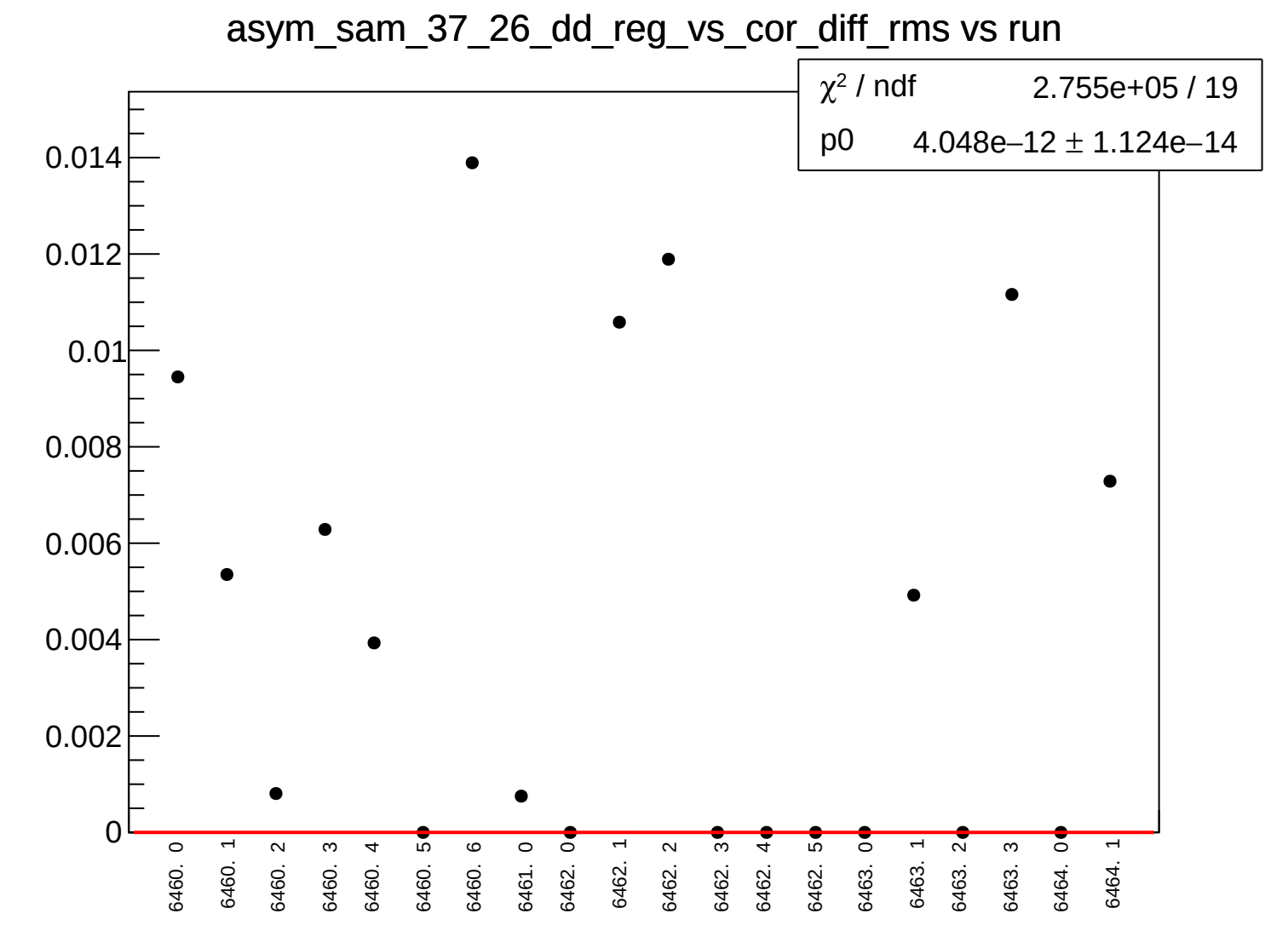

asym_sam_37_26_dd_mean vs run
χ² / ndf 13.37 / 19
p0 236.8 ± 368.6
6000
4000
2000
0
−2000
−4000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 537.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

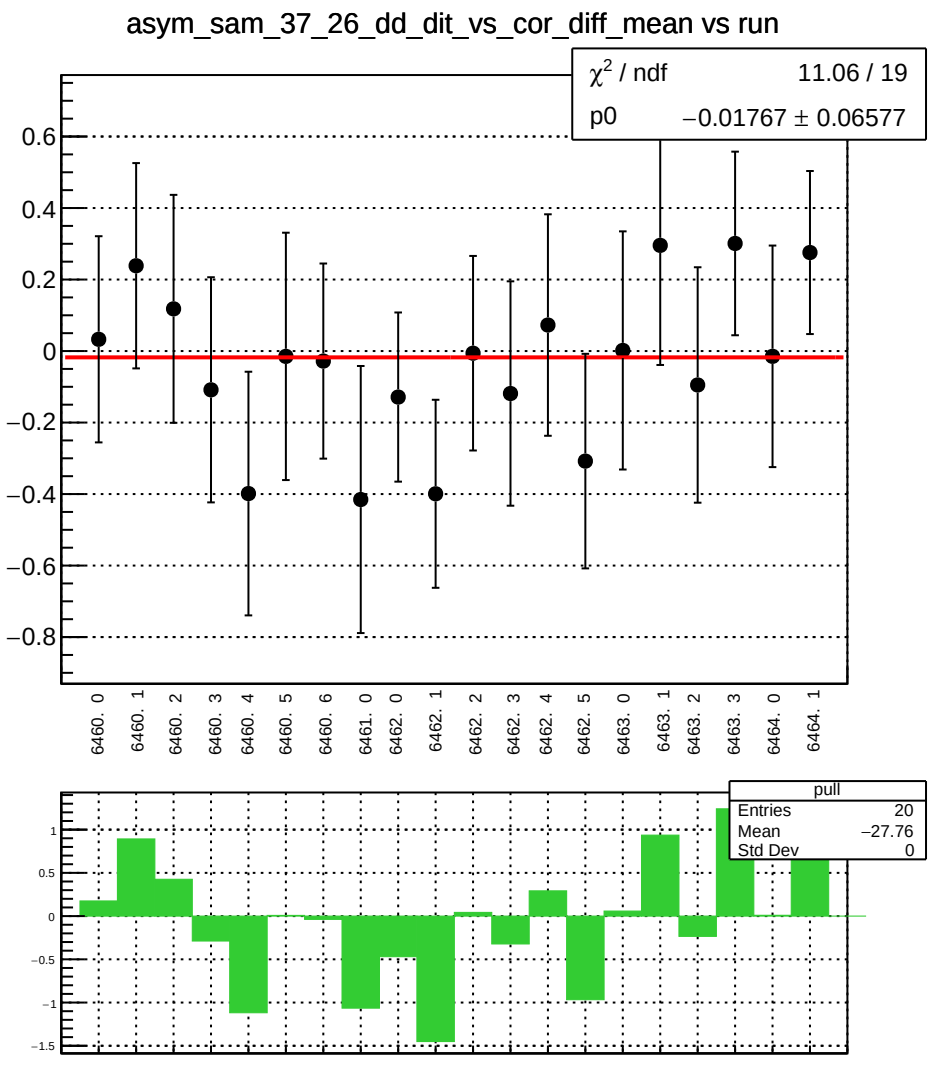

pull1D
Entries 20
Mean −0.001975
Std Dev 0.8176
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

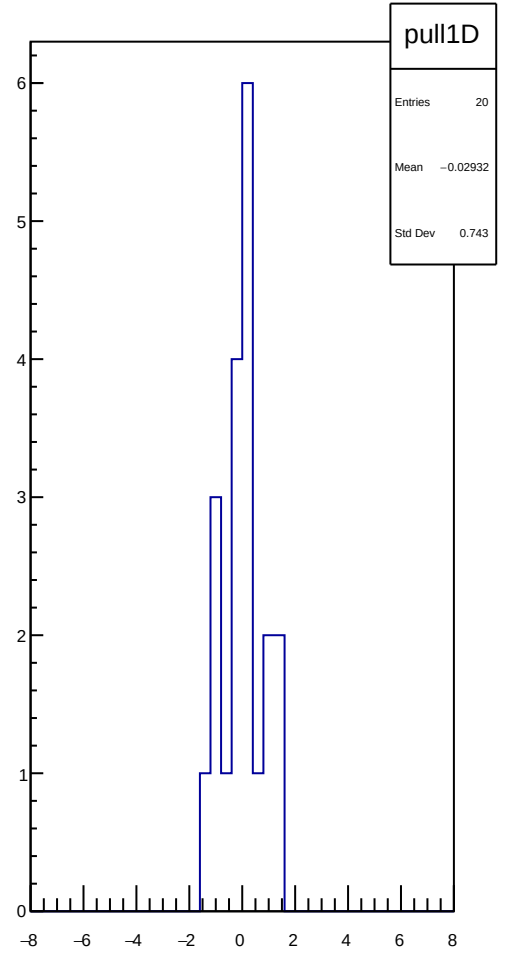

asym_sam_37_26_dd_rms vs run
χ² / ndf 1220 / 19
p0 165.7 ± 0.2606
190
180
170
160
150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

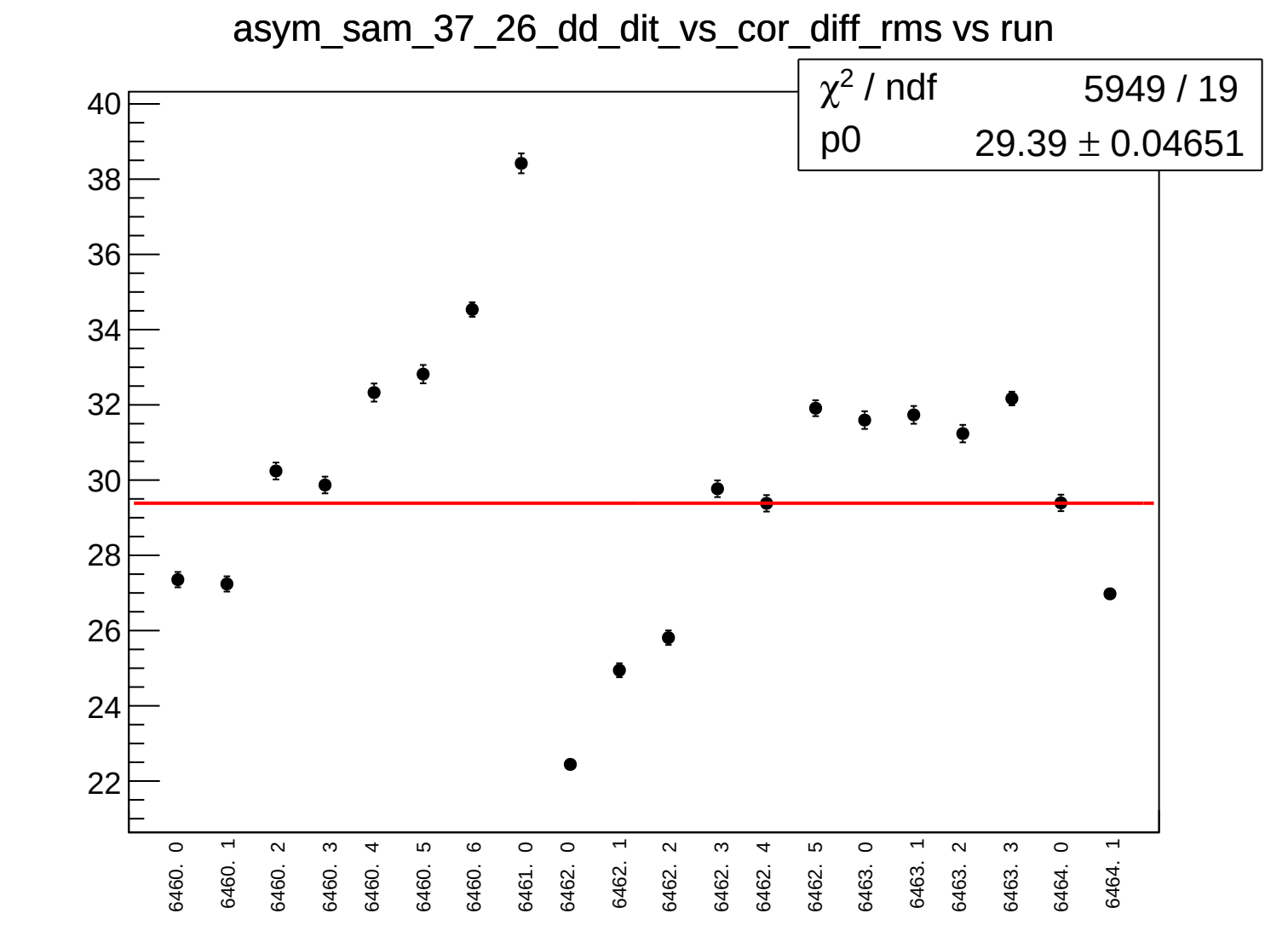

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 28.36 / 19
p0 1.649e−15 ± 1.59e−14
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −625.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

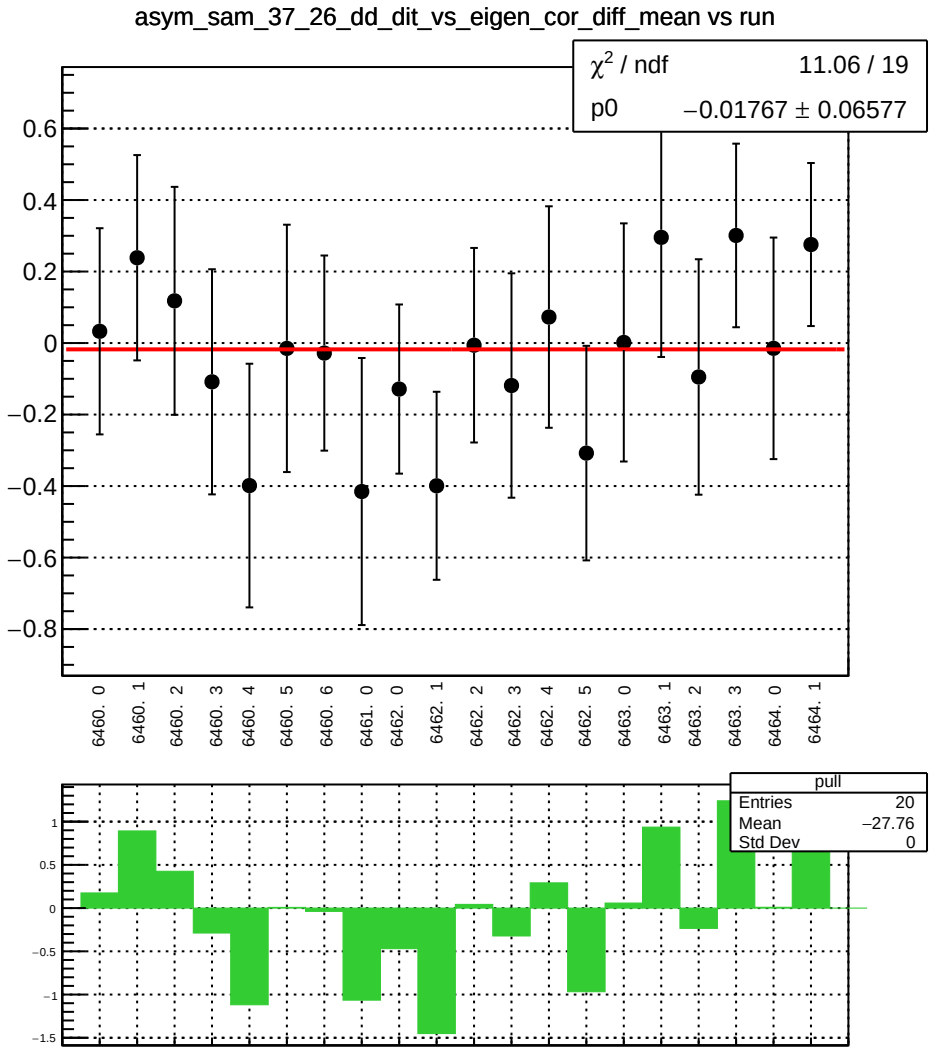

pull1D
Entries 20
Mean 0.005295
Std Dev 1.191
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

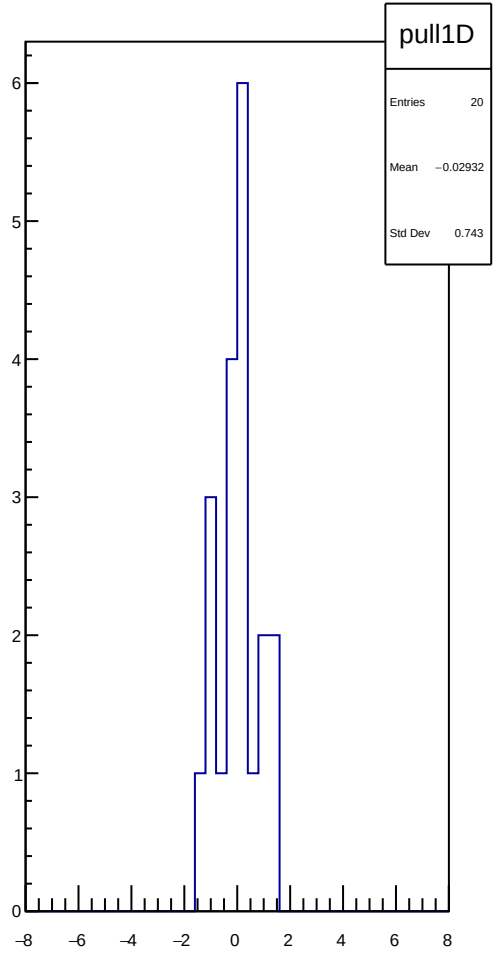

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.755e+05 / 19
p0 4.048e−12 ± 1.124e−14
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

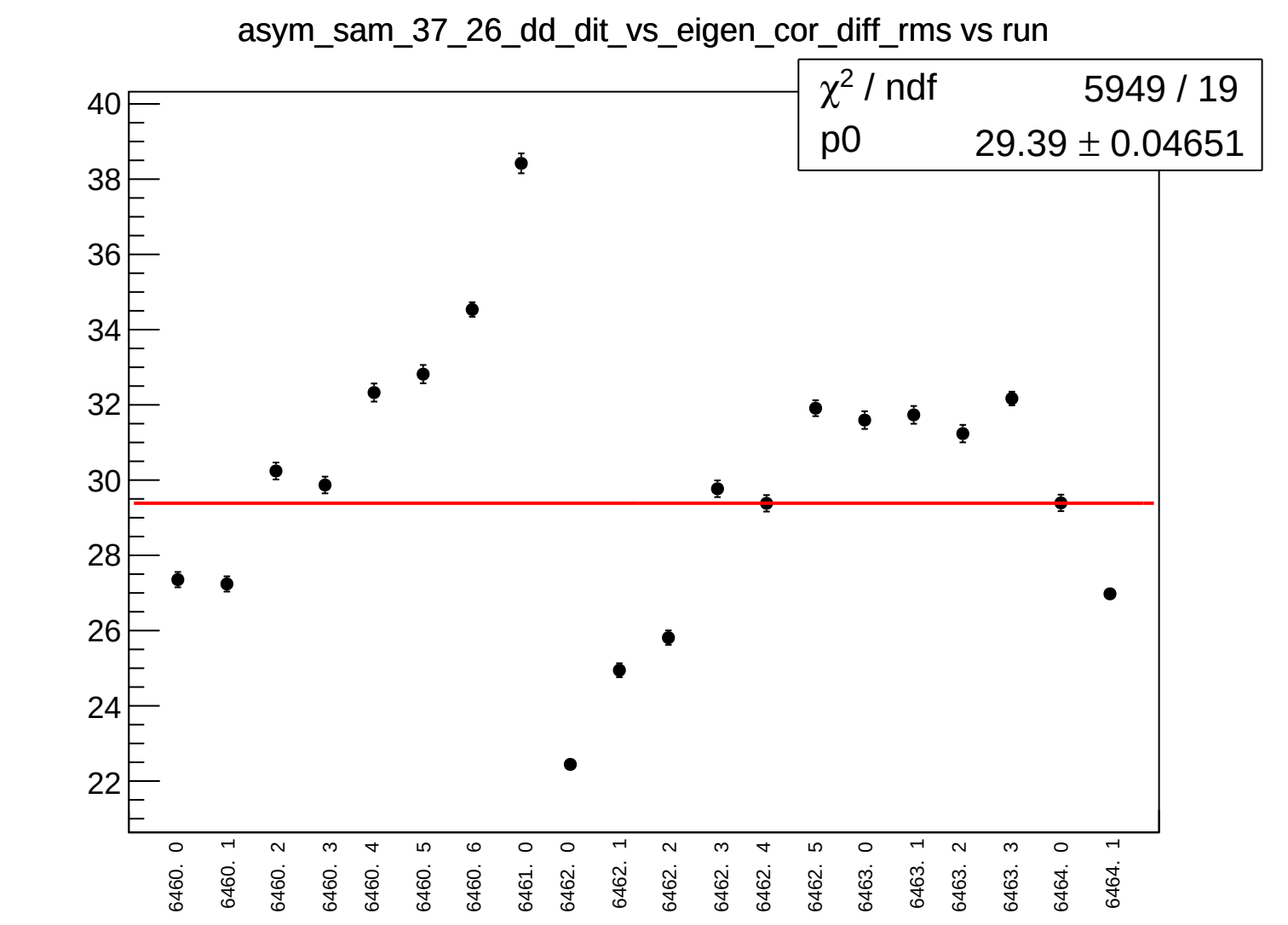

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 11.06 / 19
p0 −0.01767 ± 0.06577
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −27.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

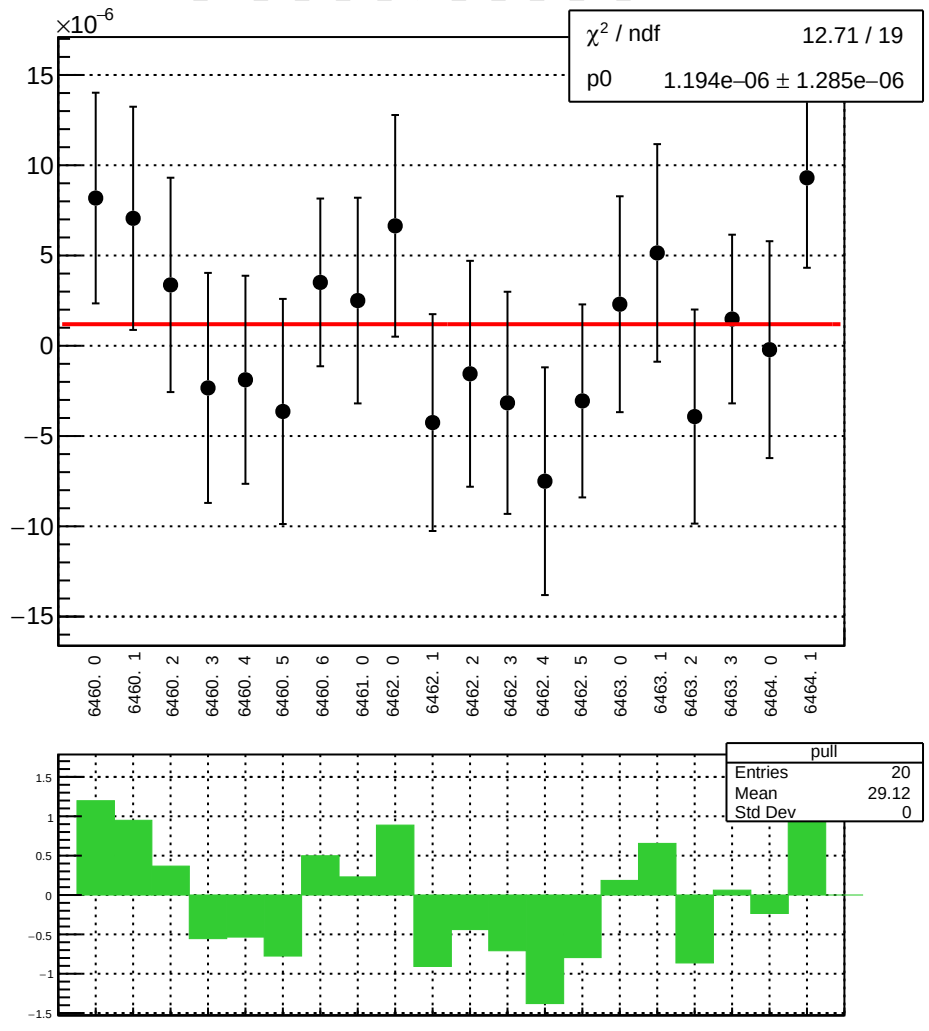

pull1D
Entries 20
Mean −0.02932
Std Dev 0.743
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

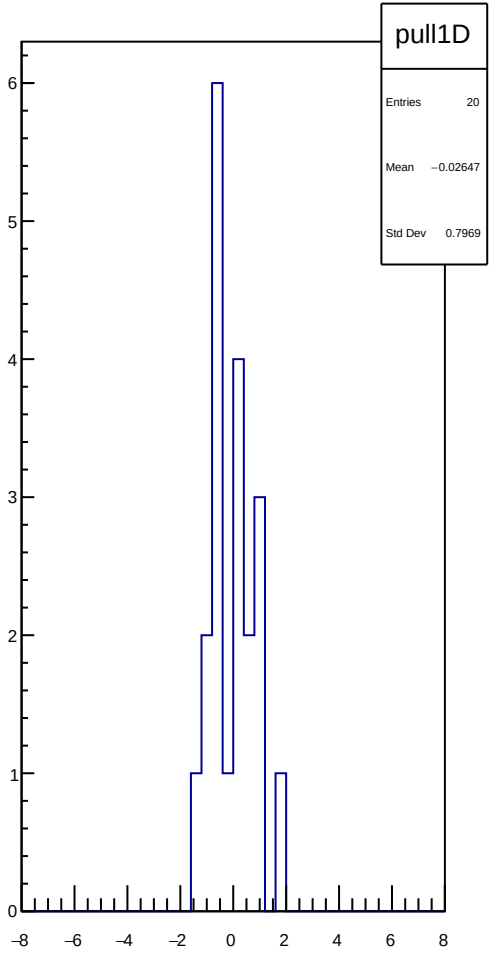

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5949 / 19
p0 29.39 ± 0.04651
40
38
36
34
32
30
28
26
24
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

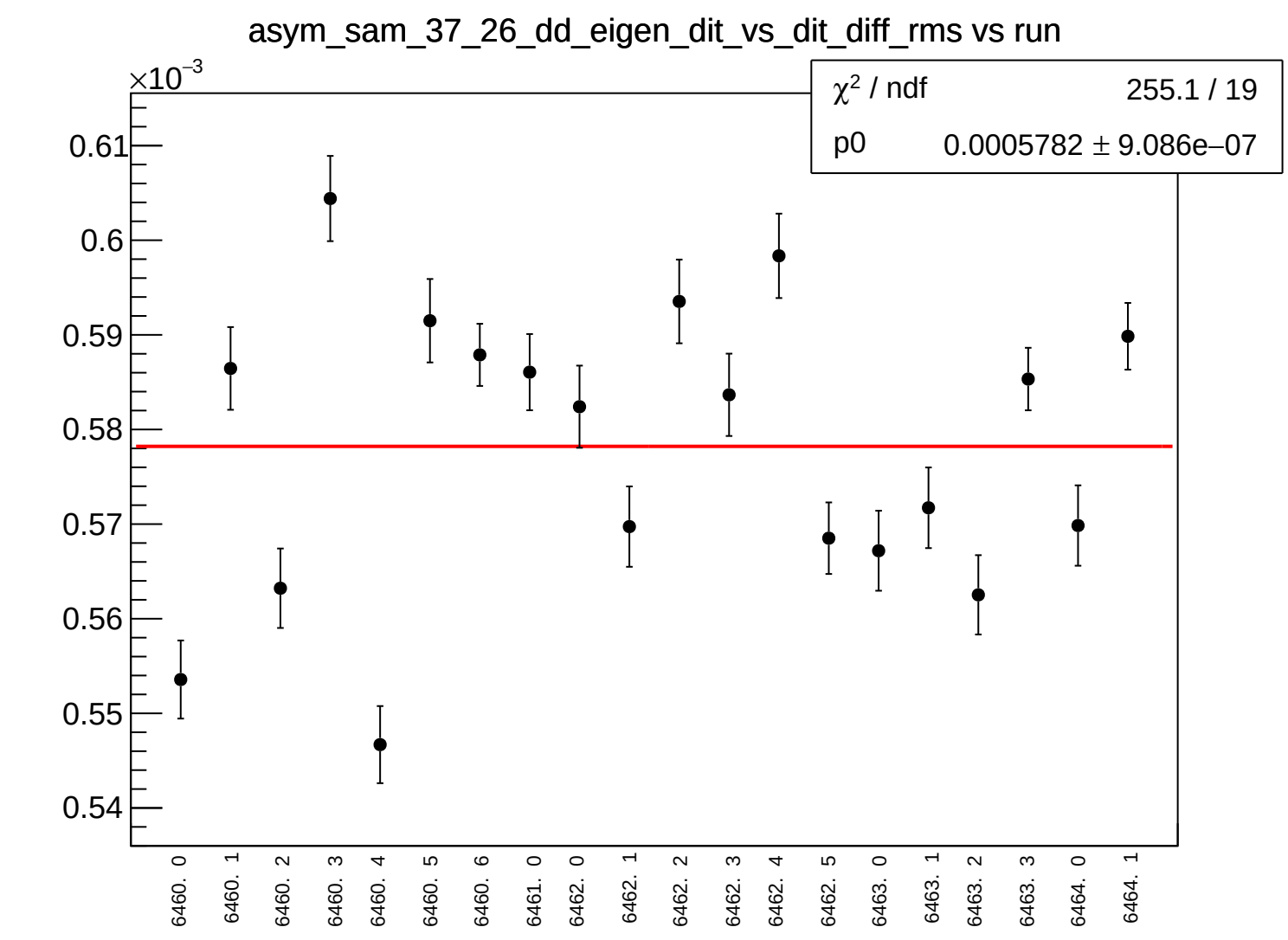

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.06 / 19
p0 −0.01767 ± 0.06577
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −27.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

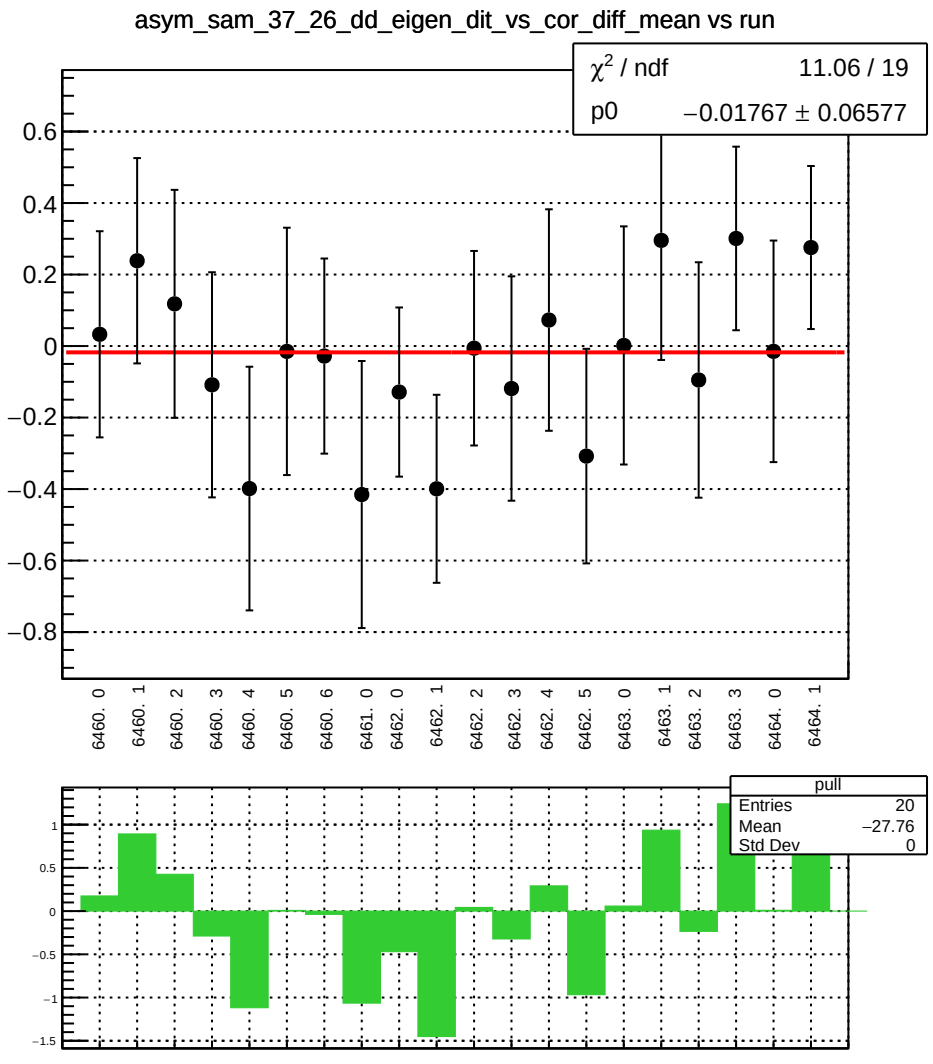

pull1D
Entries 20
Mean −0.02932
Std Dev 0.743
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

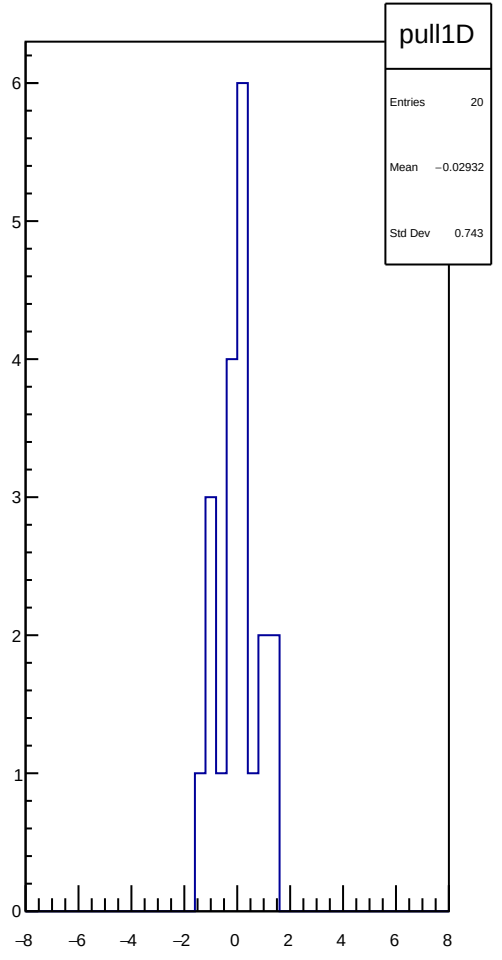

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5949 / 19
p0 29.39 ± 0.04651
40
38
36
34
32
30
28
26
24
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

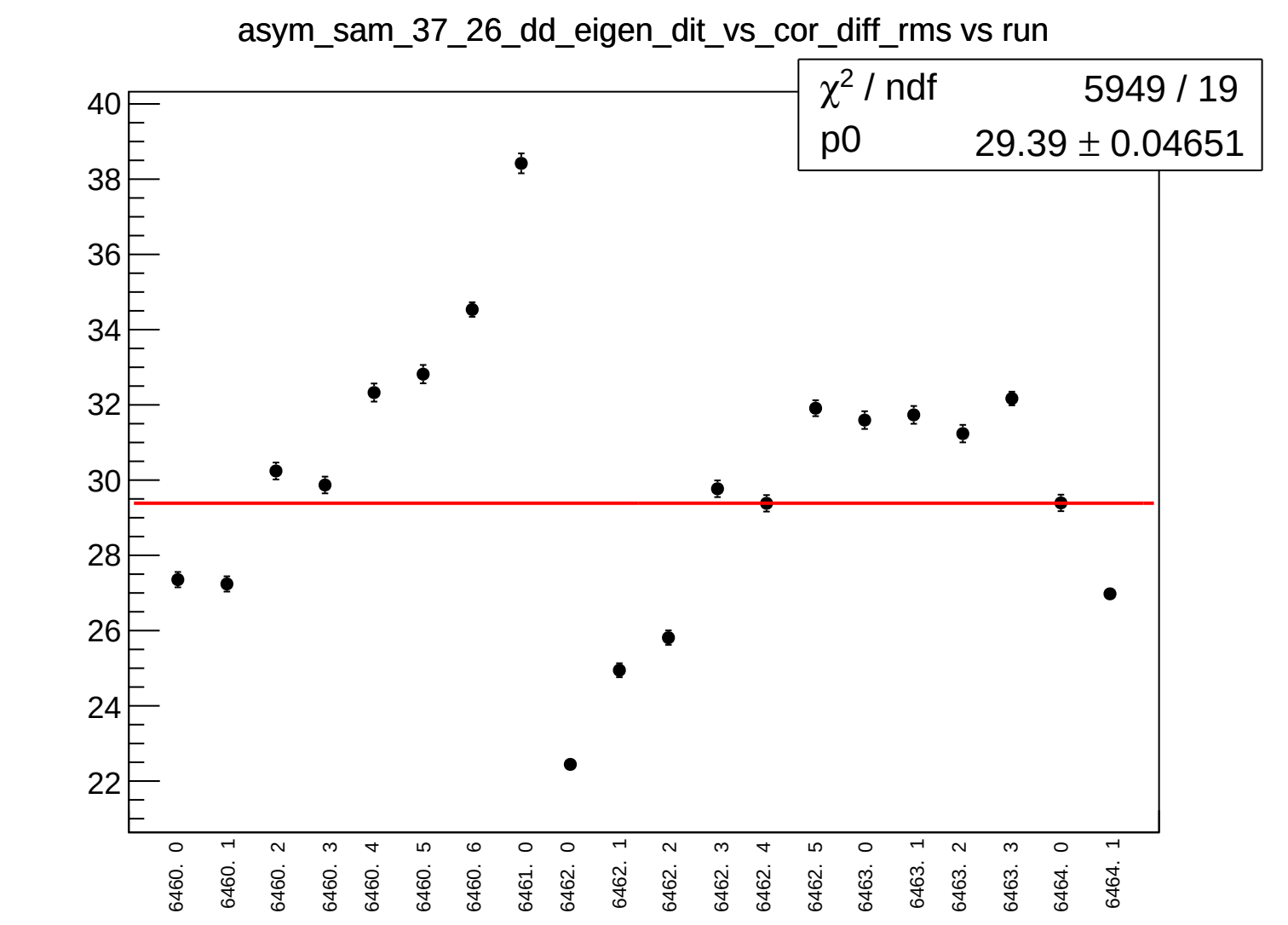

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 12.71 / 19
p0 1.194e−06 ± 1.285e−06
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 29.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

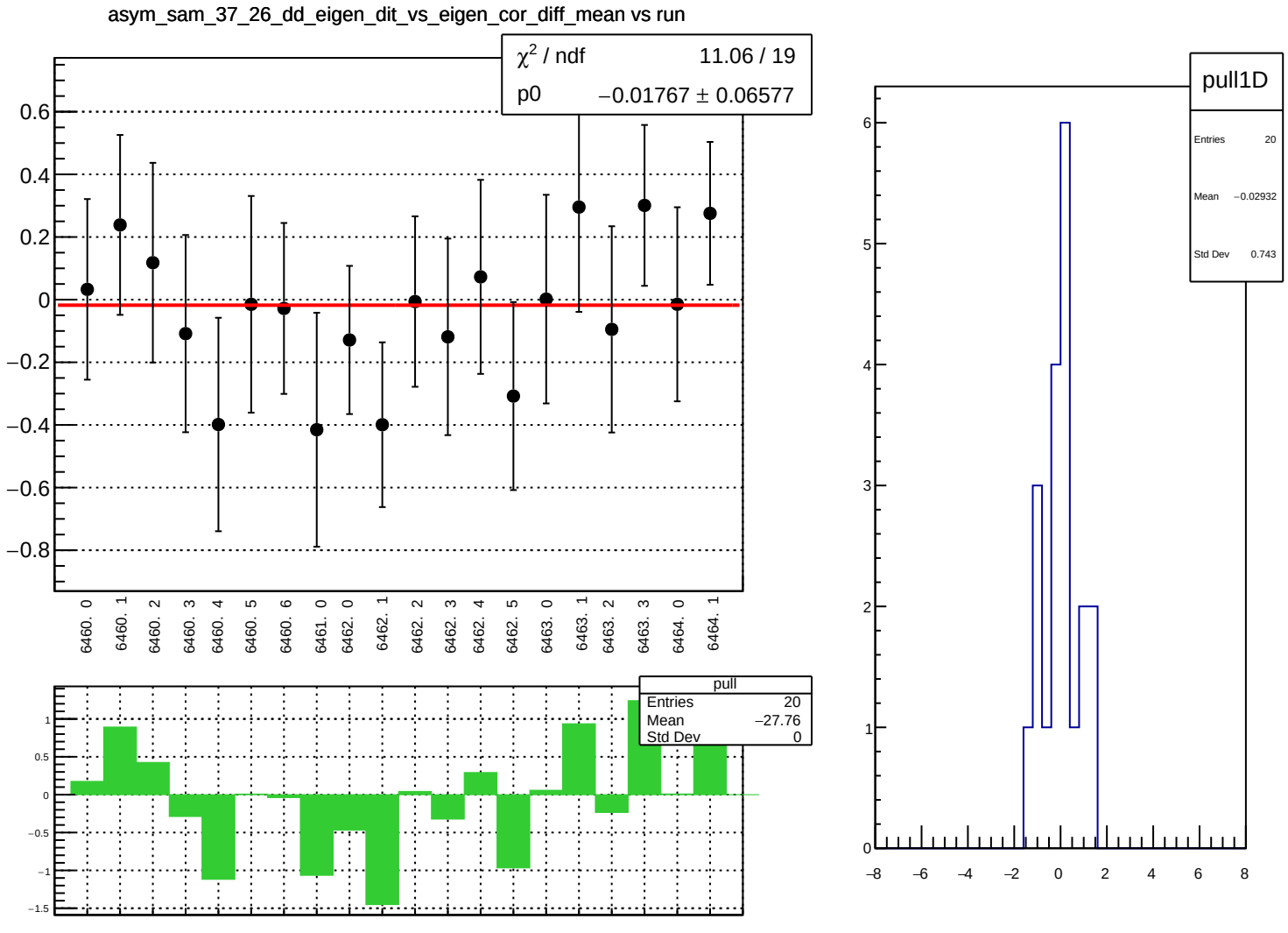

pull1D
Entries 20
Mean −0.02647
Std Dev 0.7969
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

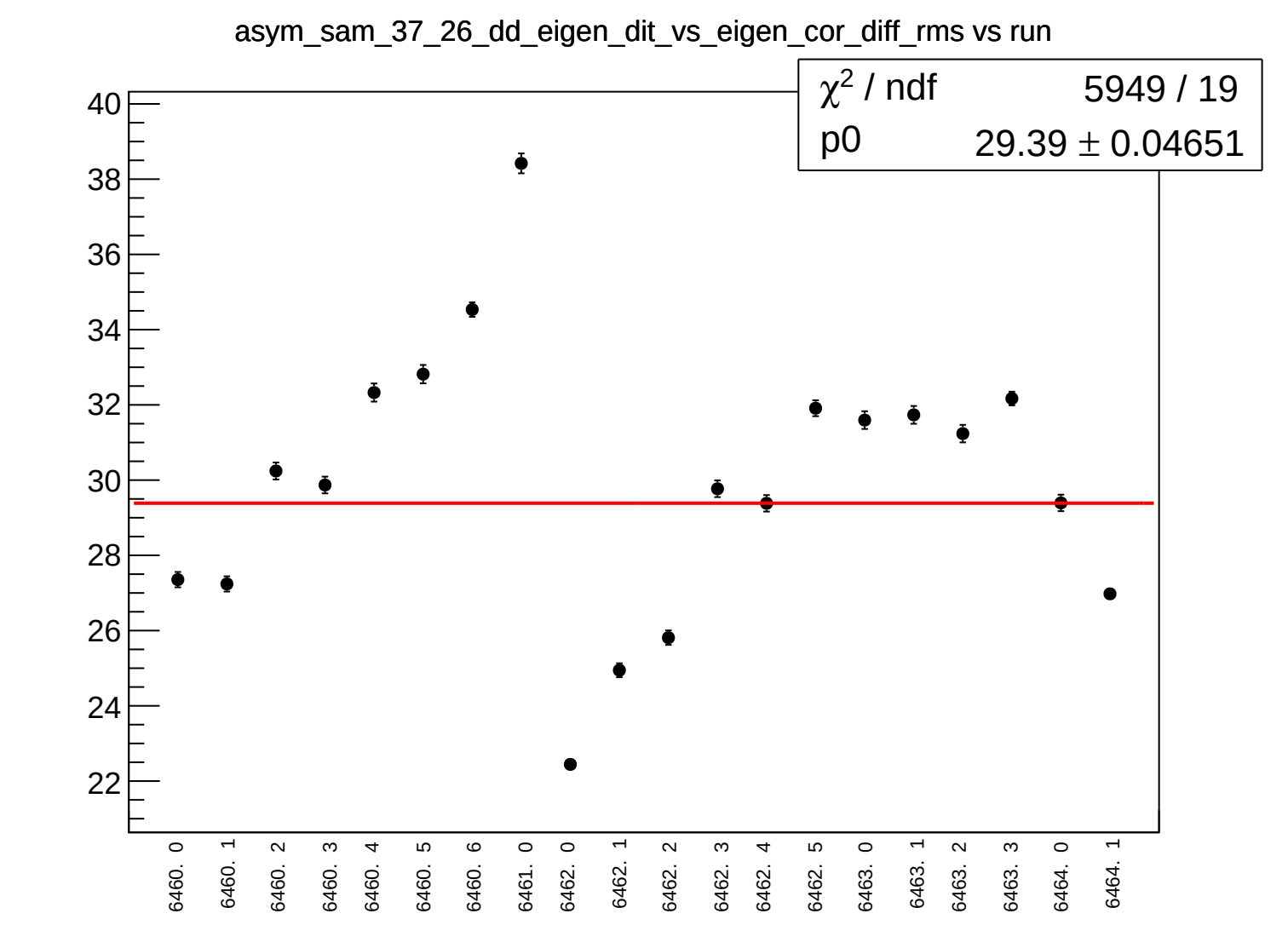

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 255.1 / 19
p0 0.0005782 ± 9.086e−07
0.61
0.6
0.59
0.58
0.57
0.56
0.55
0.54
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

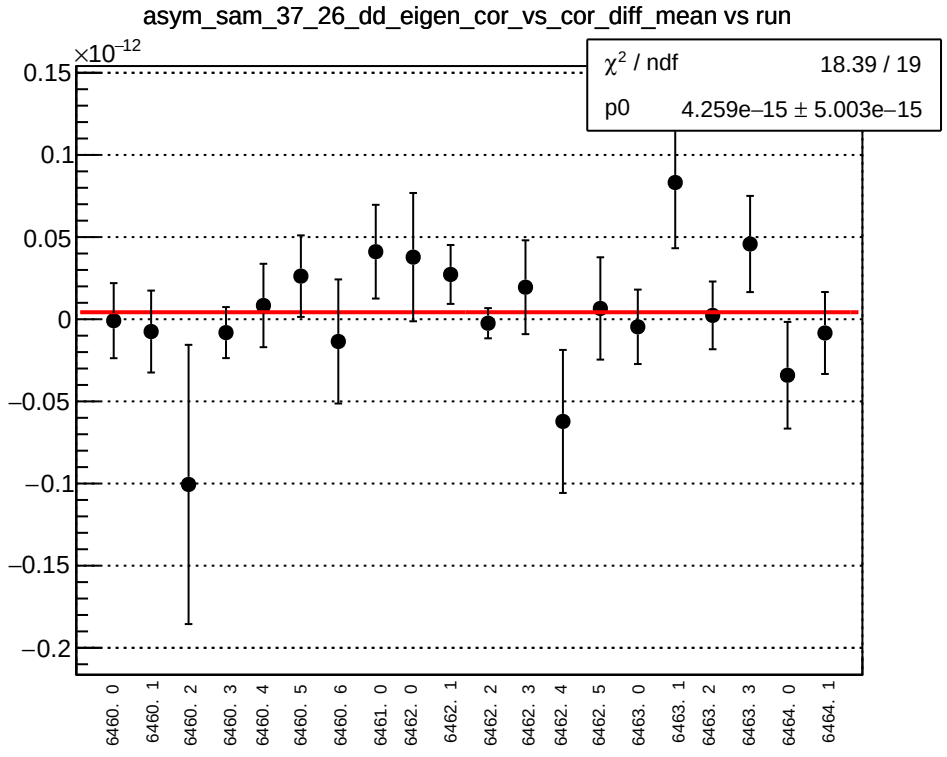

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 11.06 / 19
p0 −0.01767 ± 0.06577
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −27.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

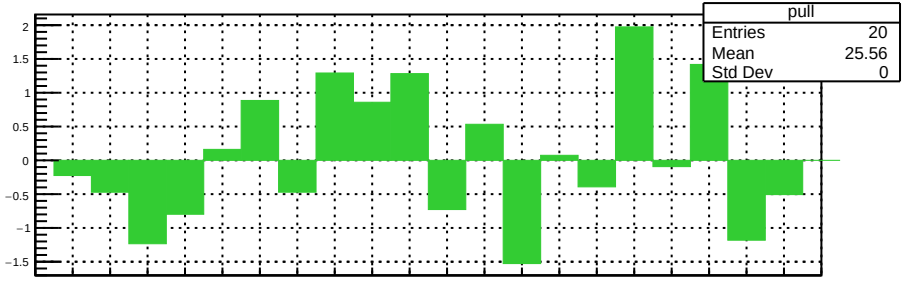

pull1D
Entries 20
Mean −0.02932
Std Dev 0.743
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

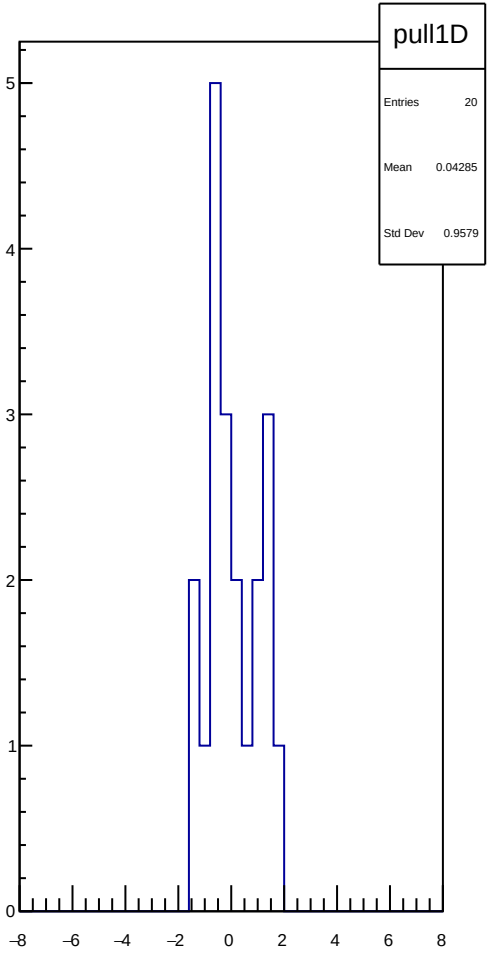

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5949 / 19
p0 29.39 ± 0.04651
40
38
36
34
32
30
28
26
24
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

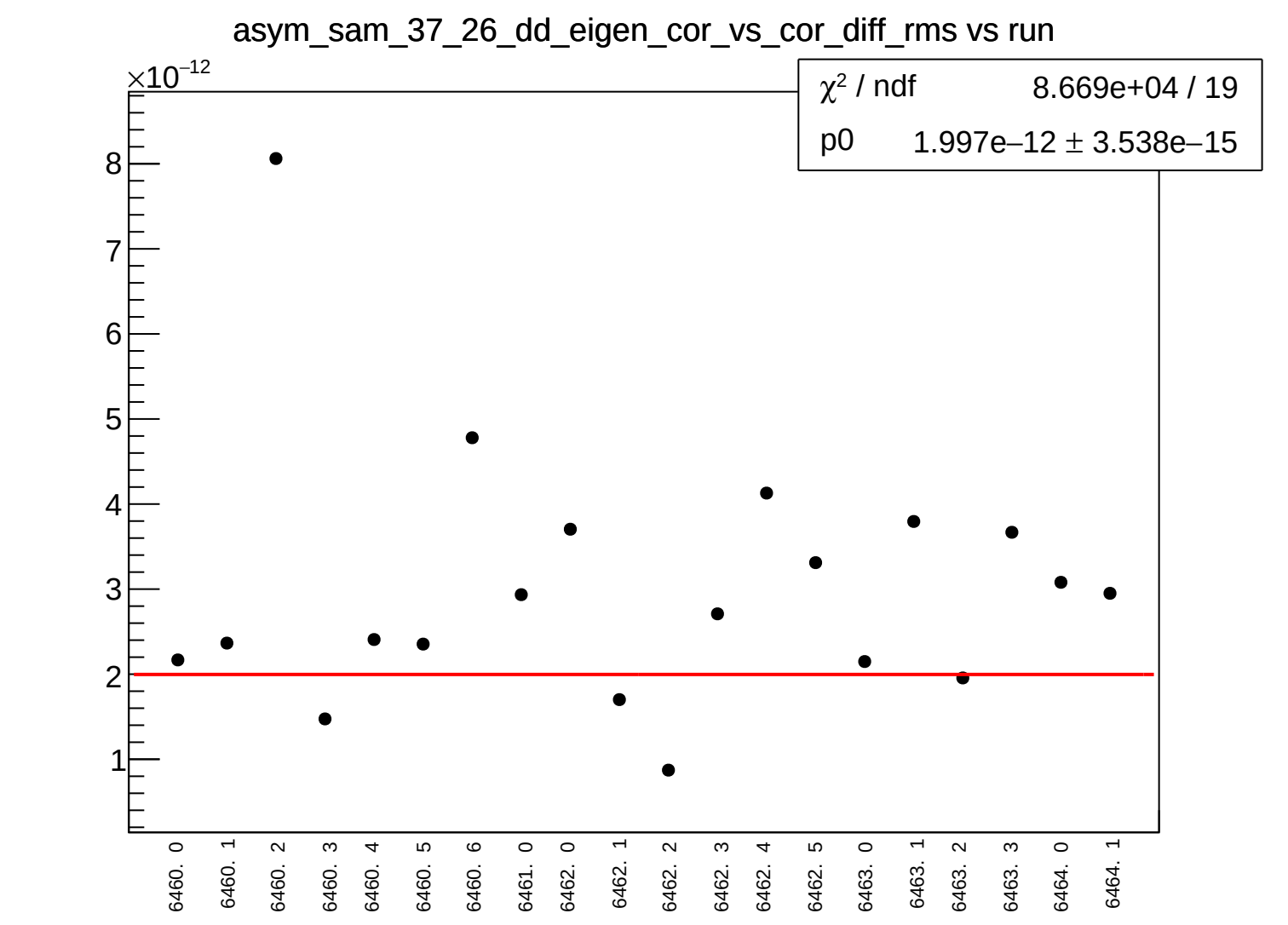

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.06 / 19
p0 −0.01767 ± 0.06577
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −27.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02932
Std Dev 0.743
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

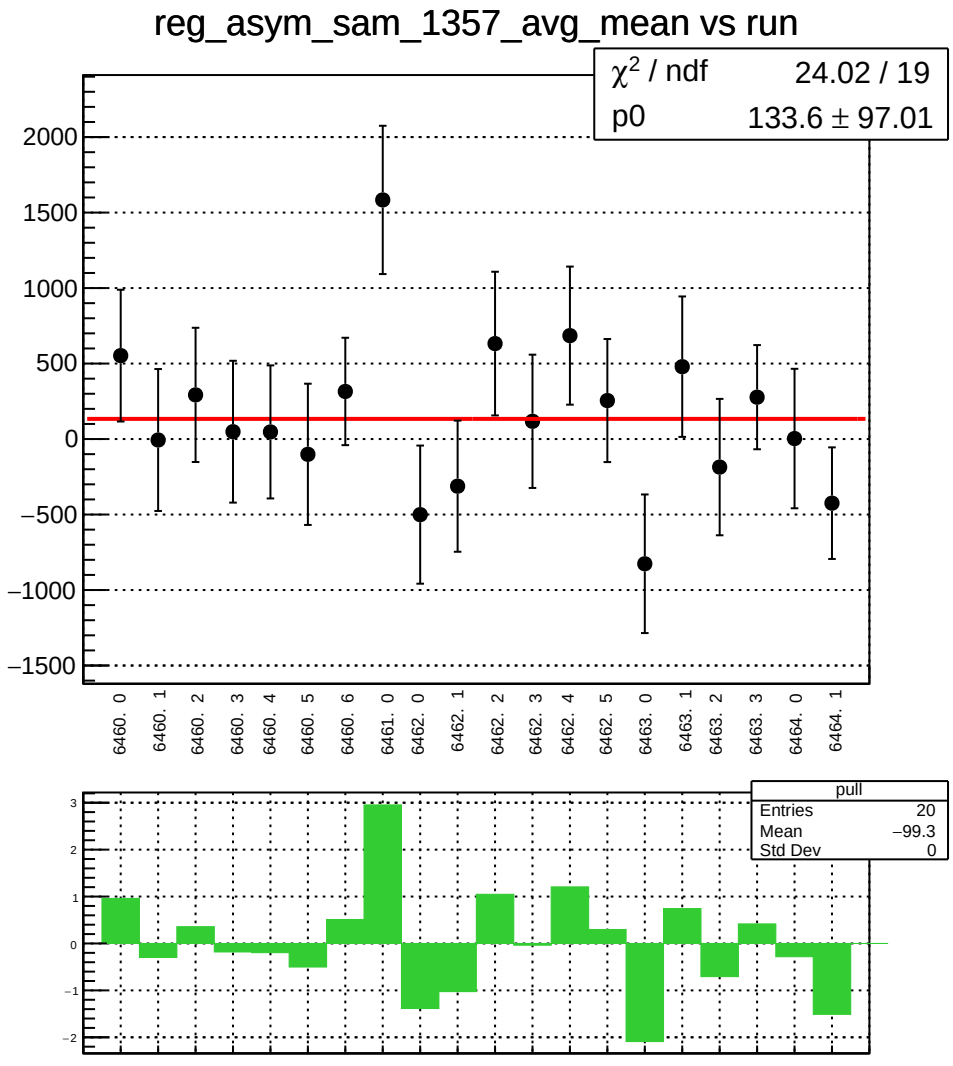

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5949 / 19
p0 29.39 ± 0.04651
40
38
36
34
32
30
28
26
24
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

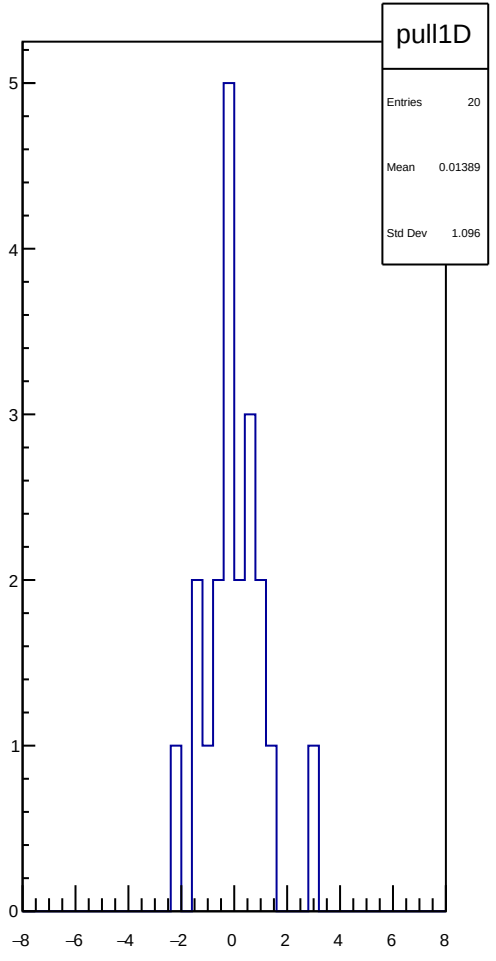

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 18.39 / 19
p0 4.259e−15 ± 5.003e−15
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

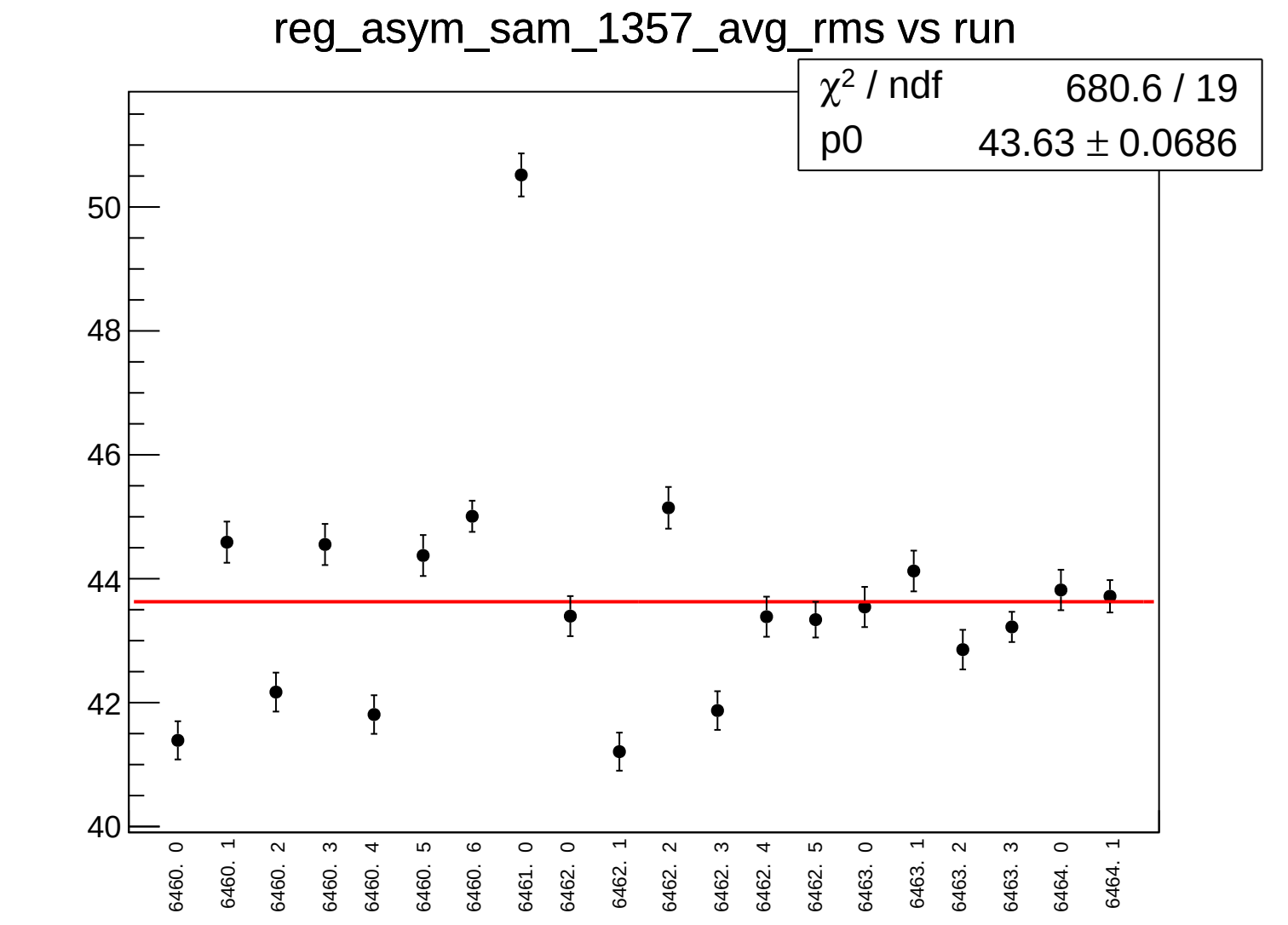

pull
Entries 20
Mean 25.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

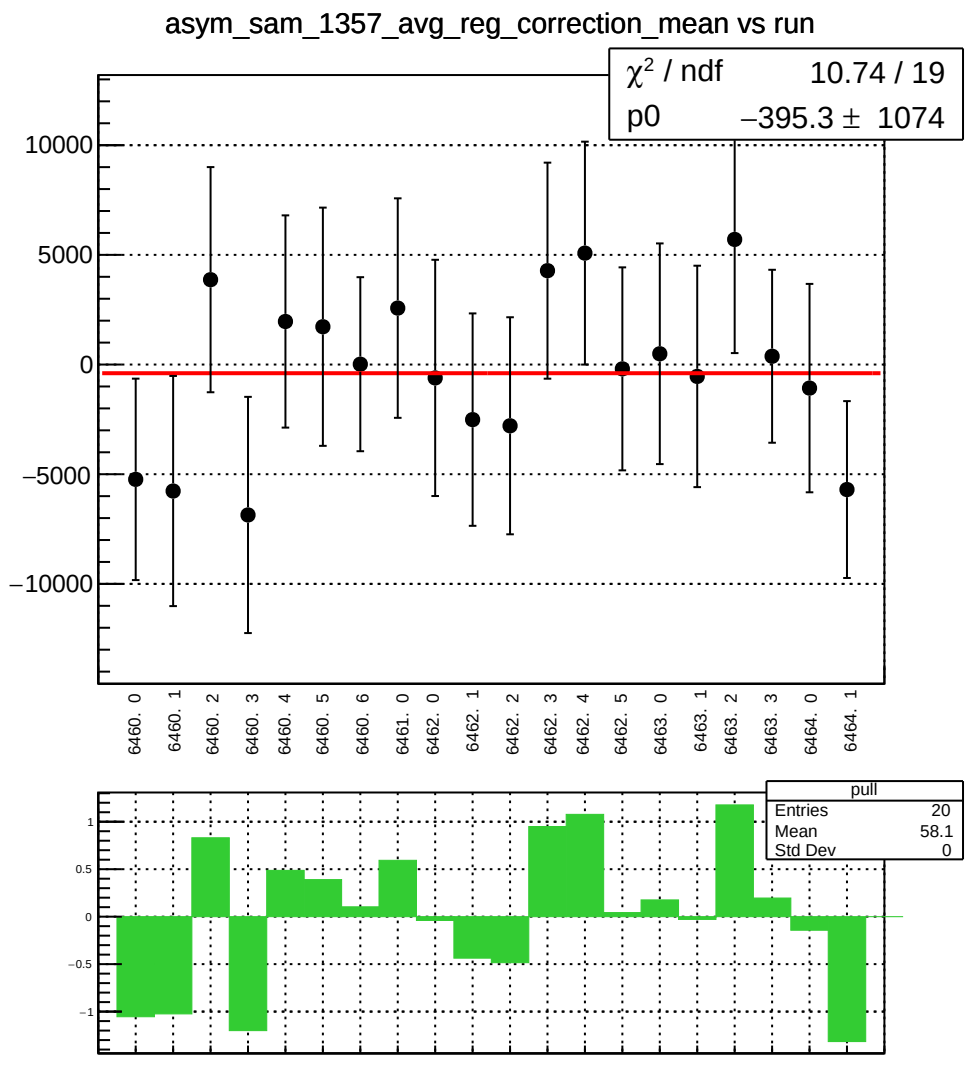

pull1D
Entries 20
Mean 0.04285
Std Dev 0.9579
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

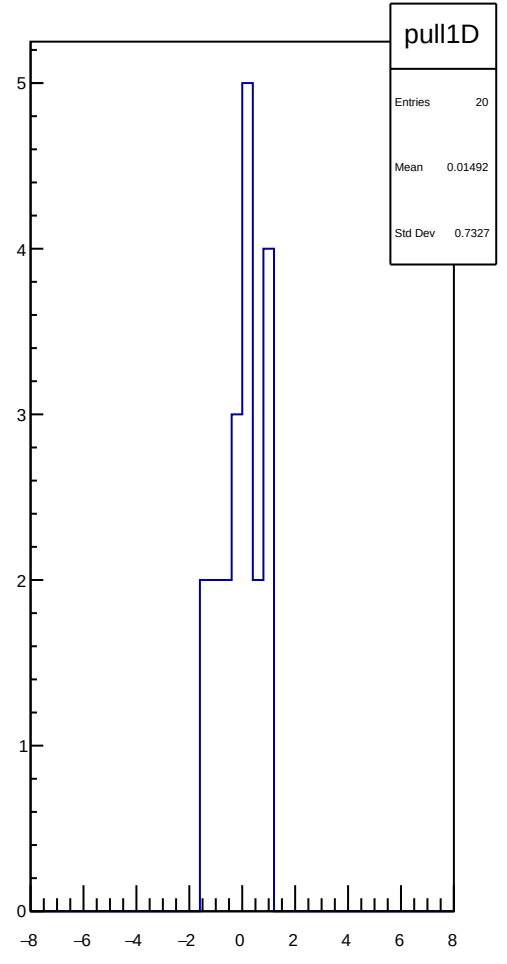

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.669e+04 / 19
p0 1.997e−12 ± 3.538e−15
8
7
6
5
4
3
2
1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

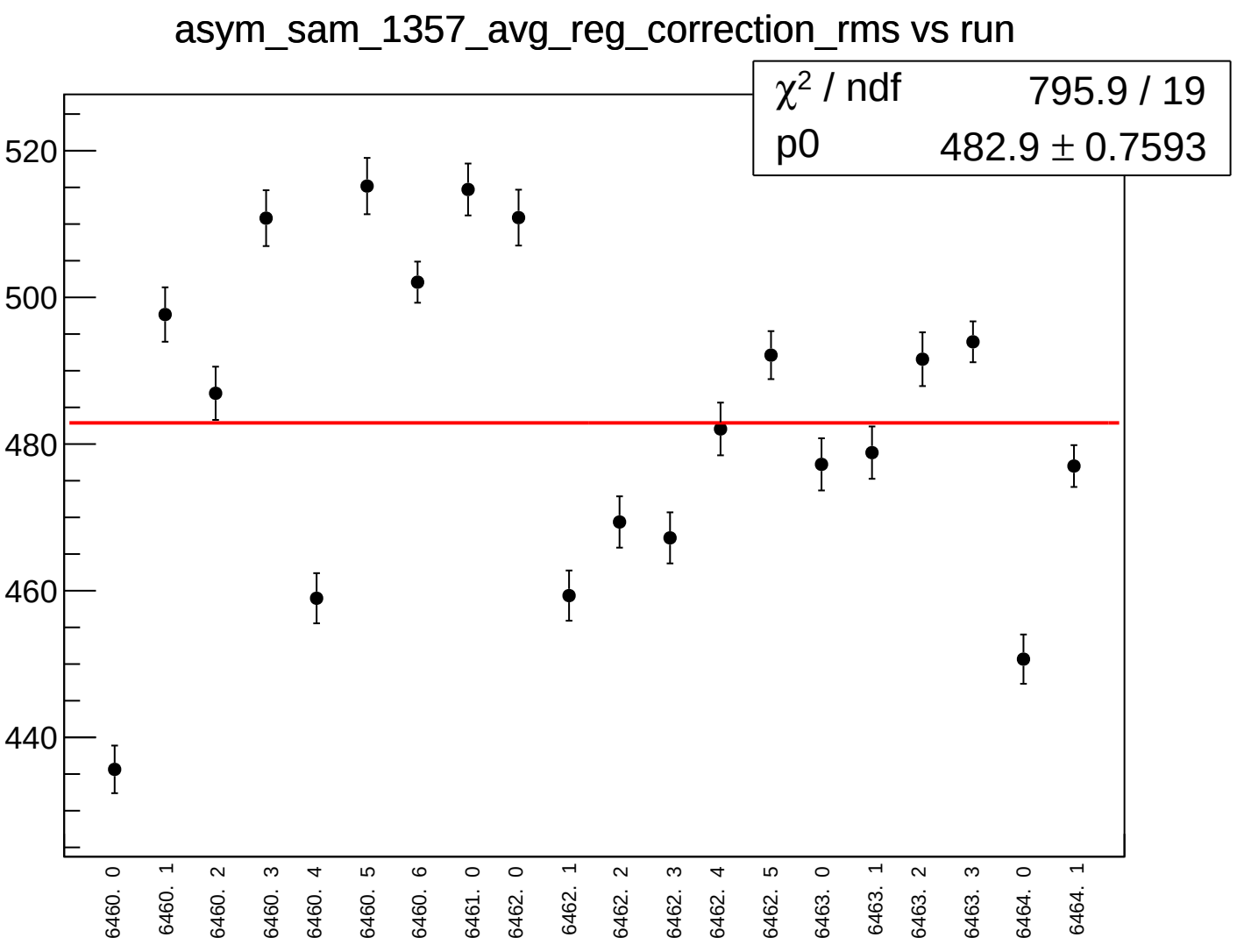

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 24.02 / 19
p0 133.6 ± 97.01
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −99.3
Std Dev 0
3
2
1
0
−1
−2

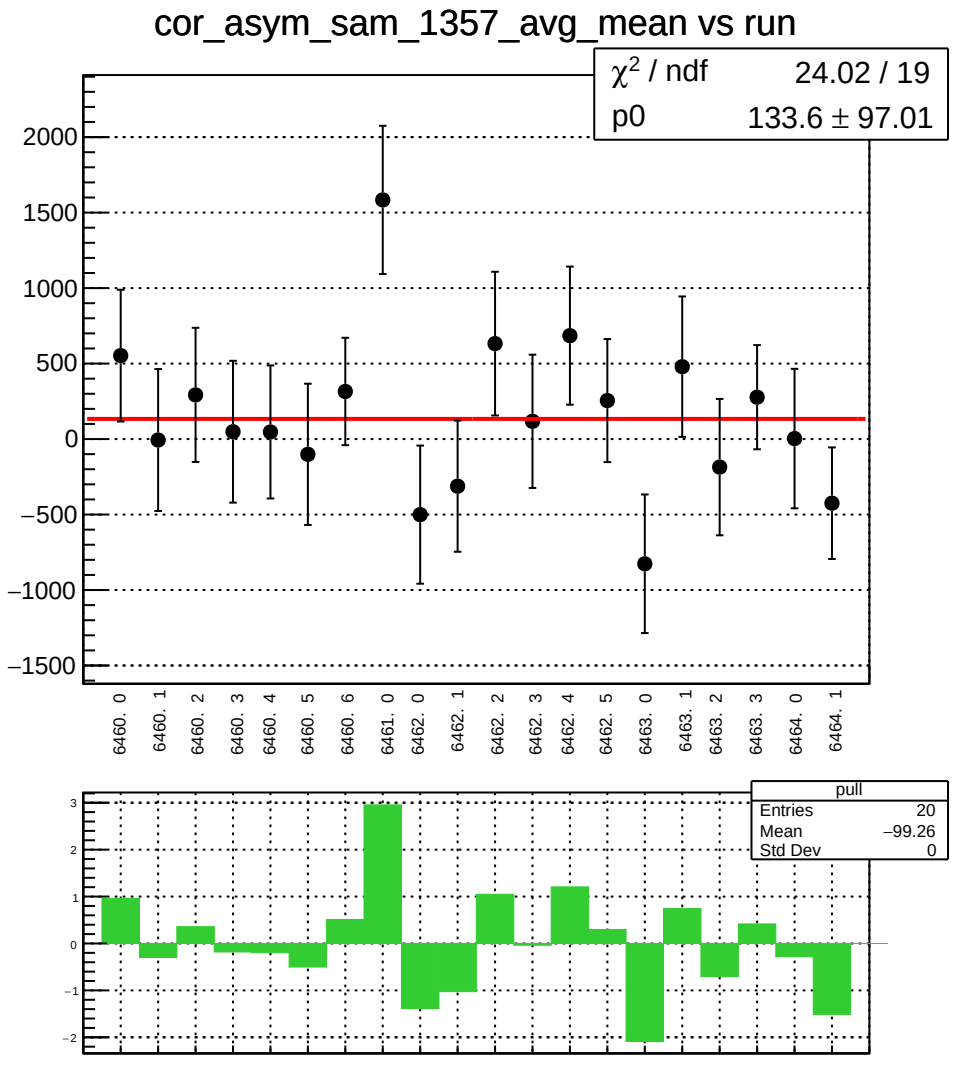

pull1D
Entries 20
Mean 0.01389
Std Dev 1.096
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

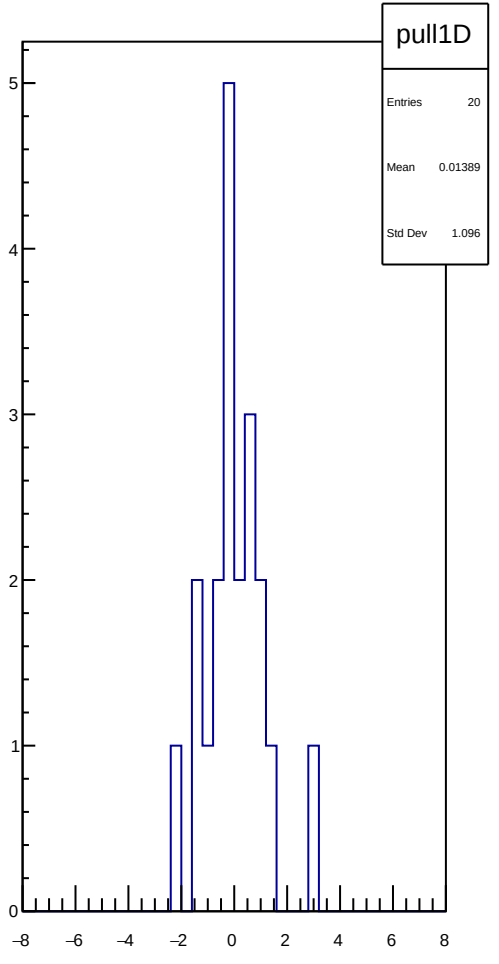

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 680.6 / 19
p0 43.63 ± 0.0686
50
48
46
44
42
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

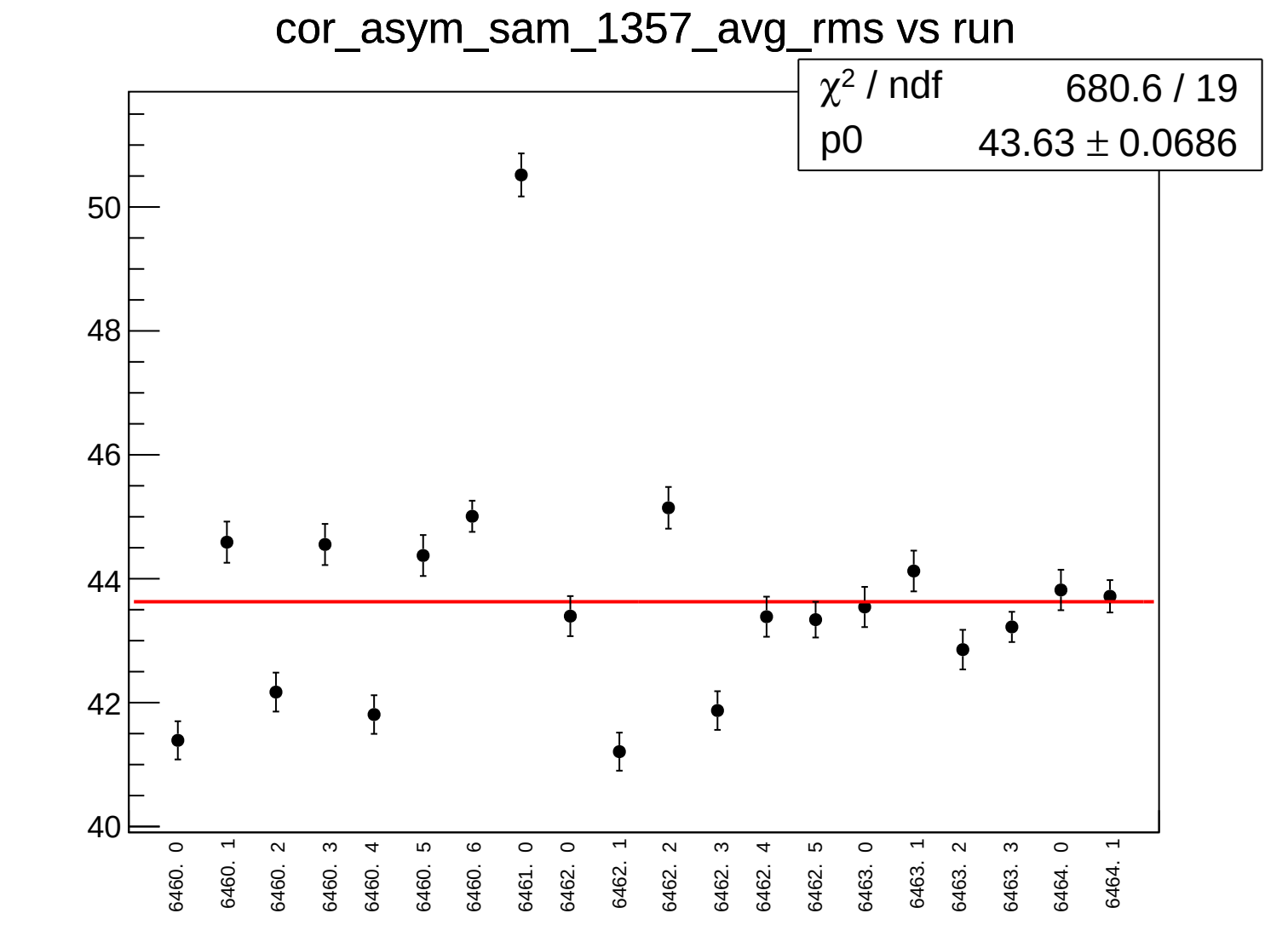

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 10.74 / 19
p0 −395.3 ± 1074
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.1
Std Dev 0
1
0.5
0
−0.5
−1

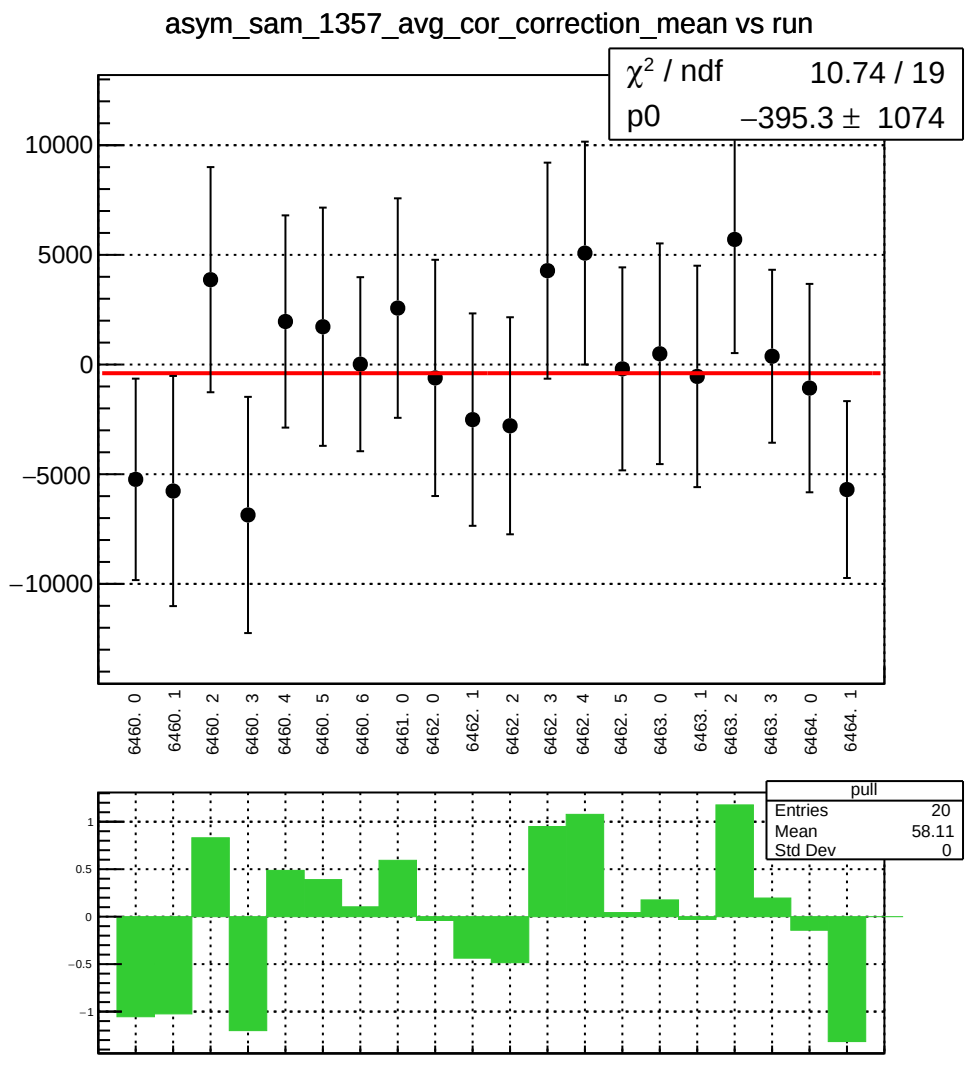

pull1D
Entries 20
Mean 0.01492
Std Dev 0.7327
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

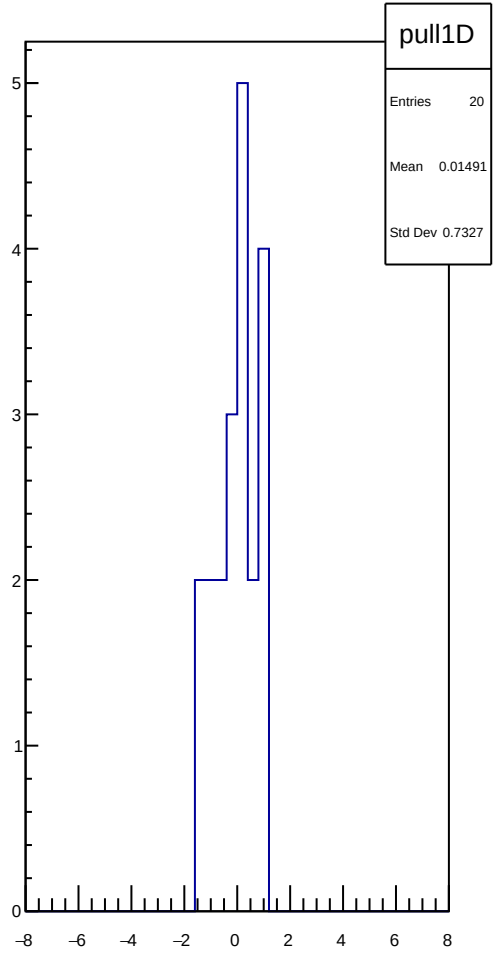

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 795.9 / 19
p0 482.9 ± 0.7593
520
500
480
460
440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

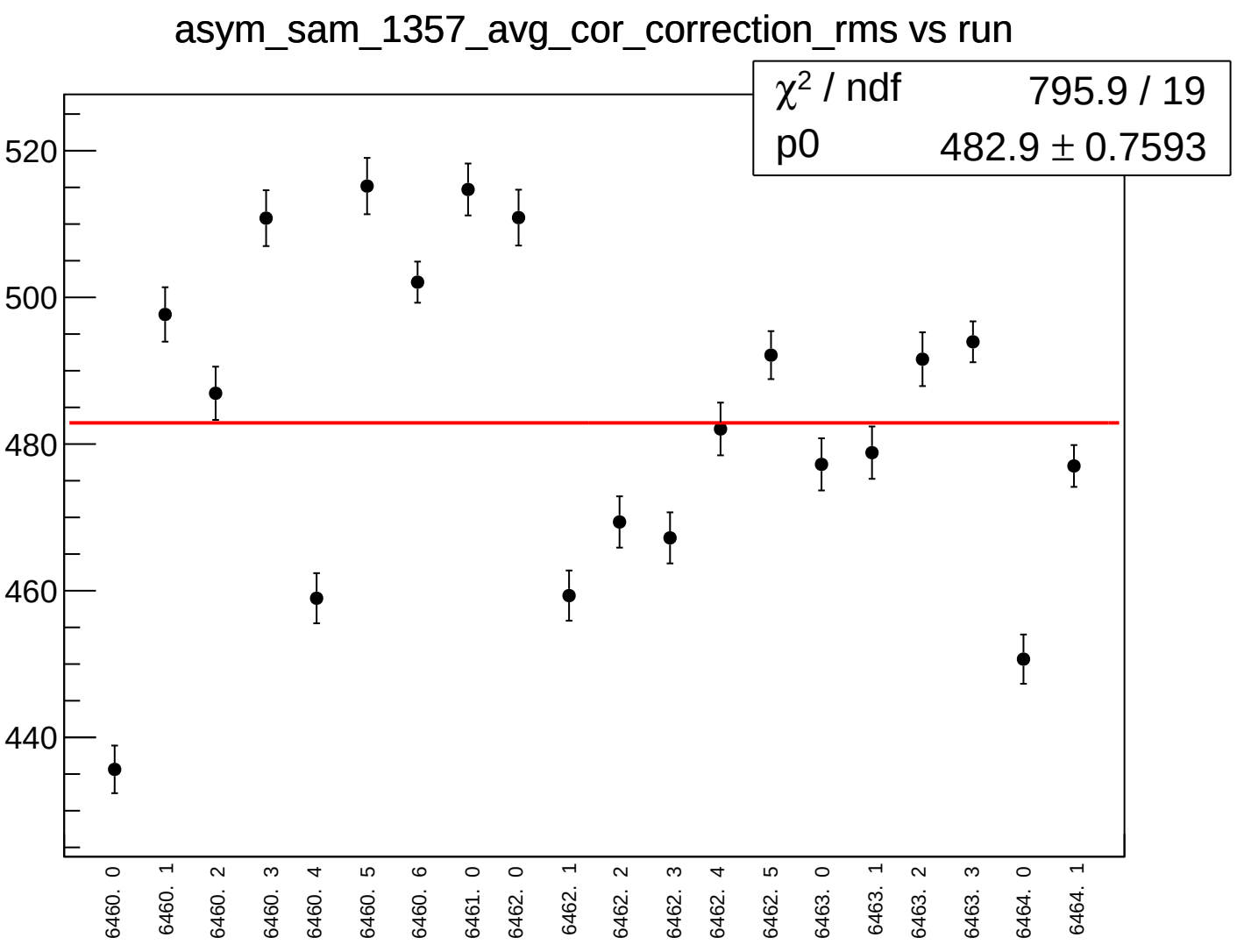

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 24.02 / 19
p0 133.6 ± 97.01
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −99.26
Std Dev 0
3
2
1
0
−1
−2

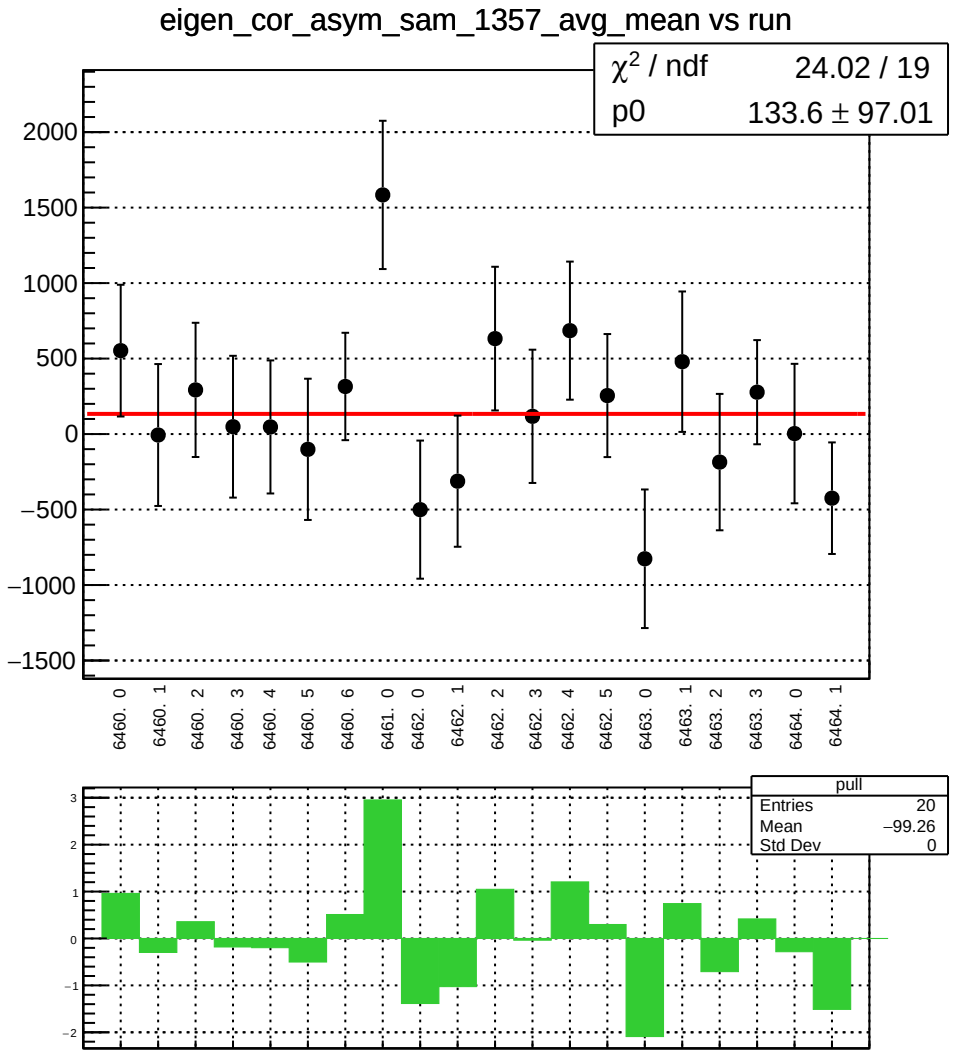

pull1D
Entries 20
Mean 0.01389
Std Dev 1.096
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

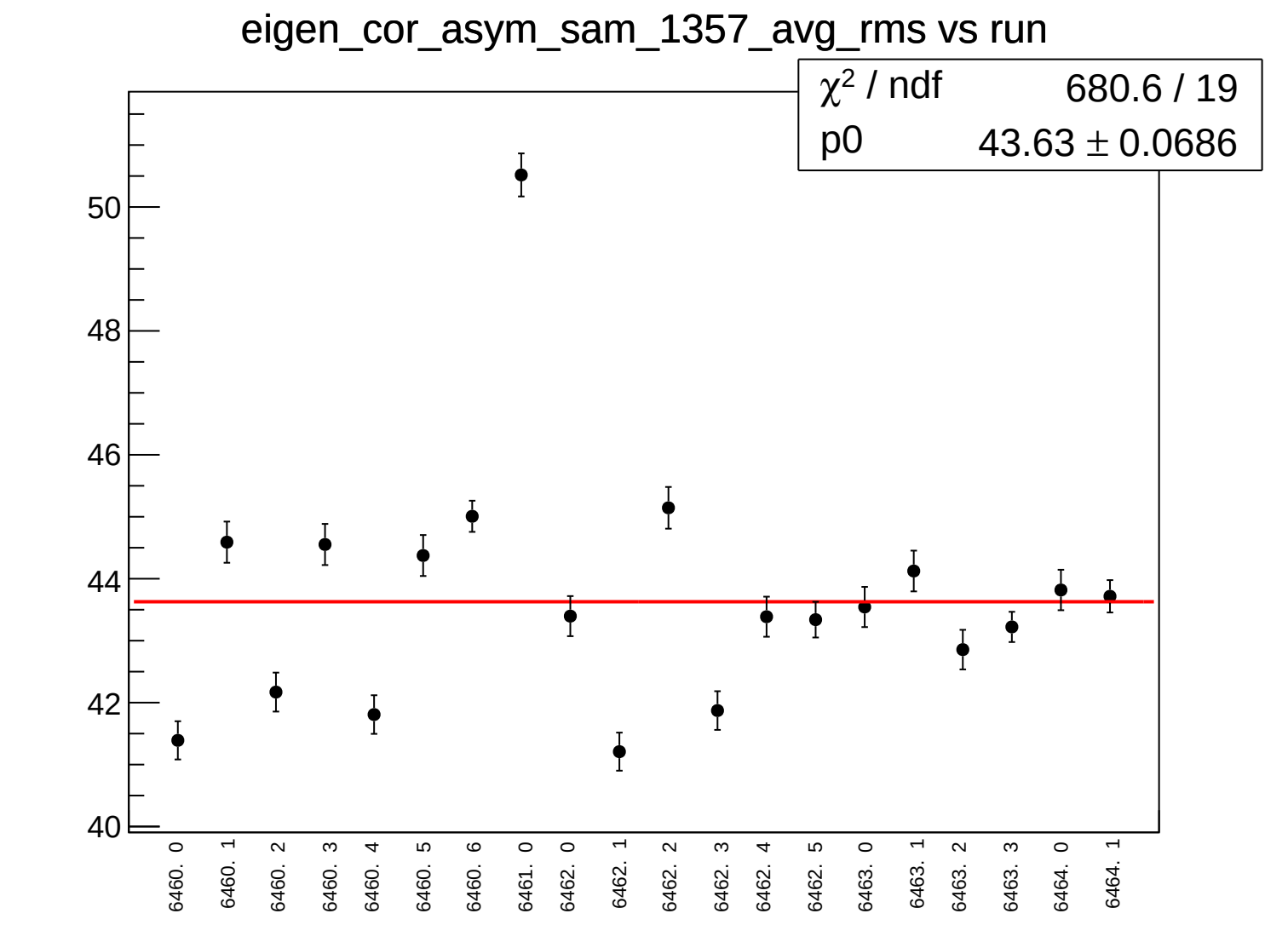

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 680.6 / 19
p0 43.63 ± 0.0686
50
48
46
44
42
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

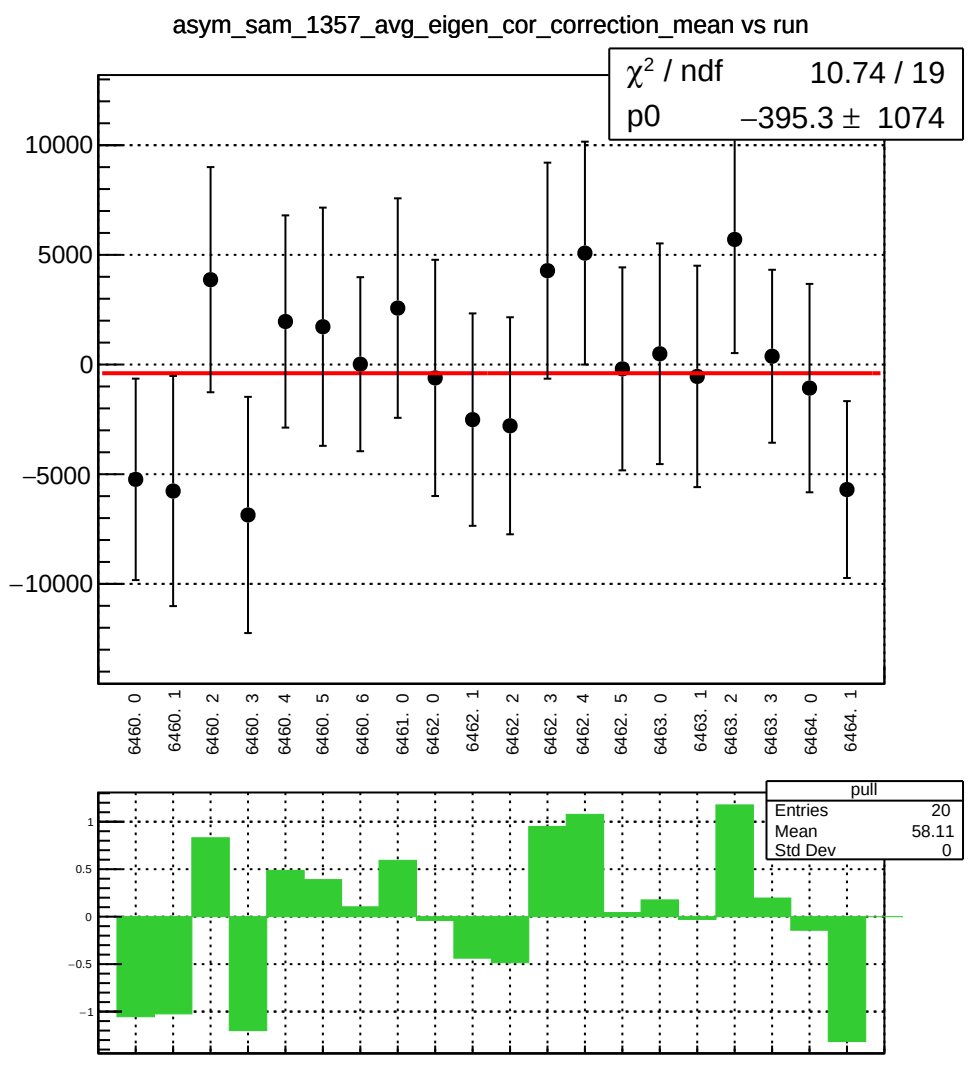

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 10.74 / 19
p0 −395.3 ± 1074
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.11
Std Dev 0
1
0.5
0
−0.5
−1

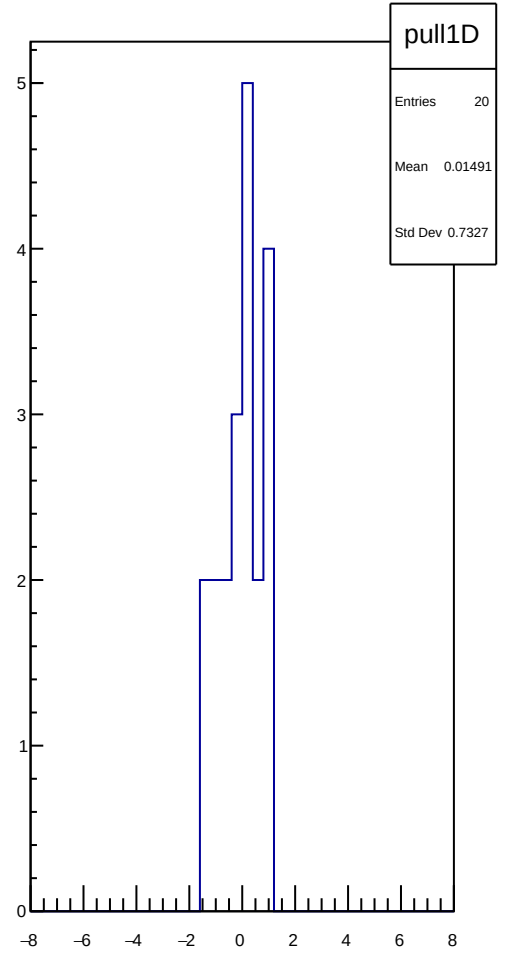

pull1D
Entries 20
Mean 0.01491
Std Dev 0.7327
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

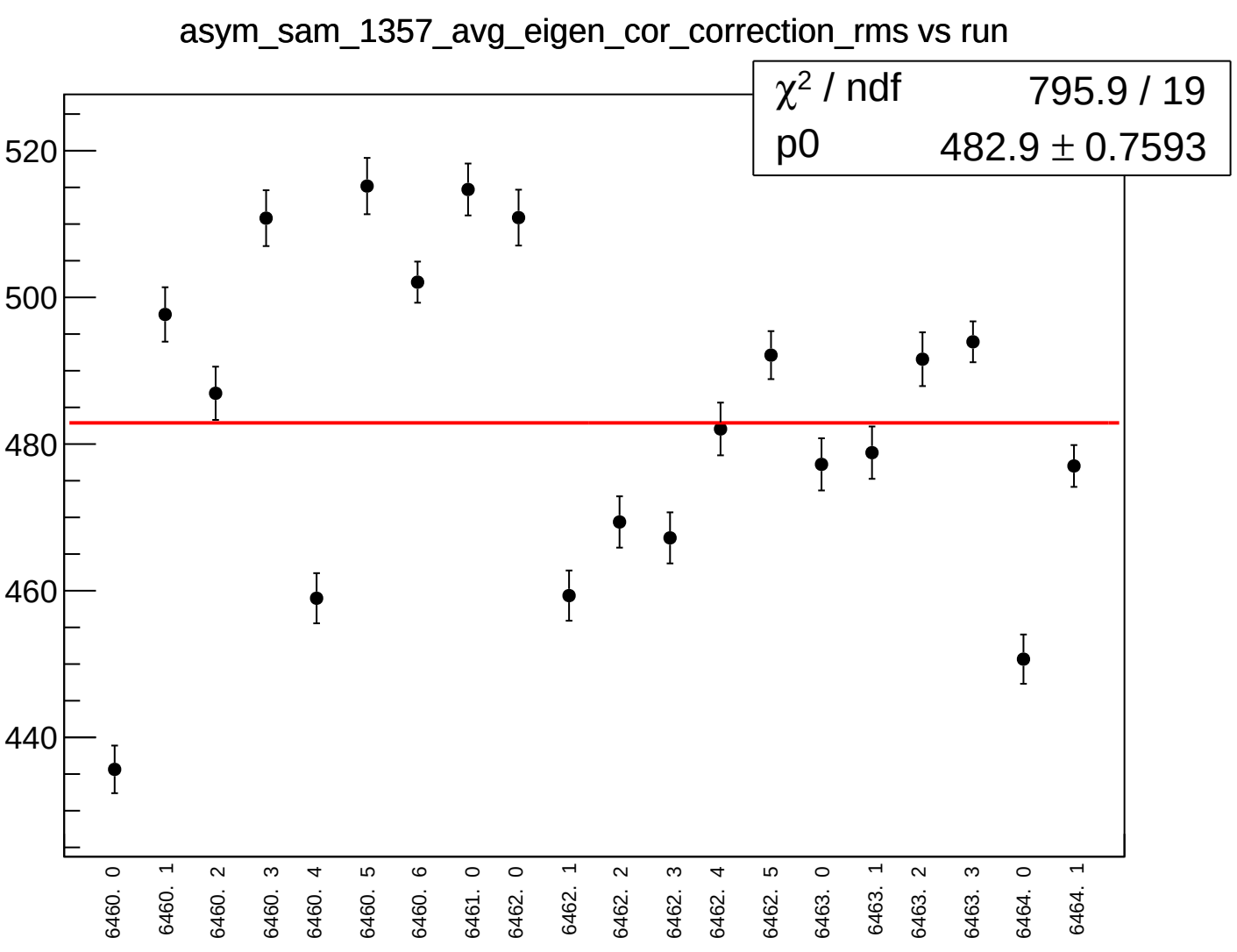

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 795.9 / 19
p0 482.9 ± 0.7593
520
500
480
460
440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

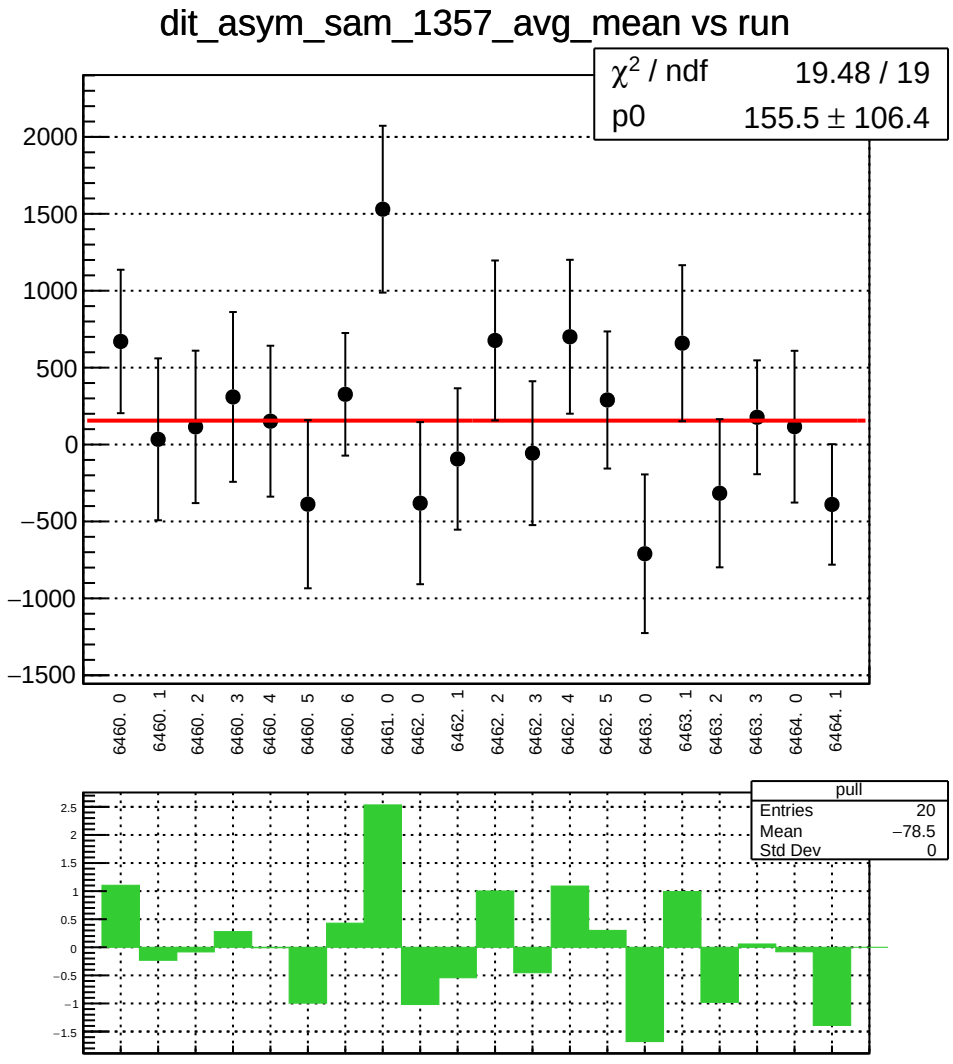

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 24.02 / 19
p0 133.6 ± 97.01
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −99.26
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.01389
Std Dev 1.096
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

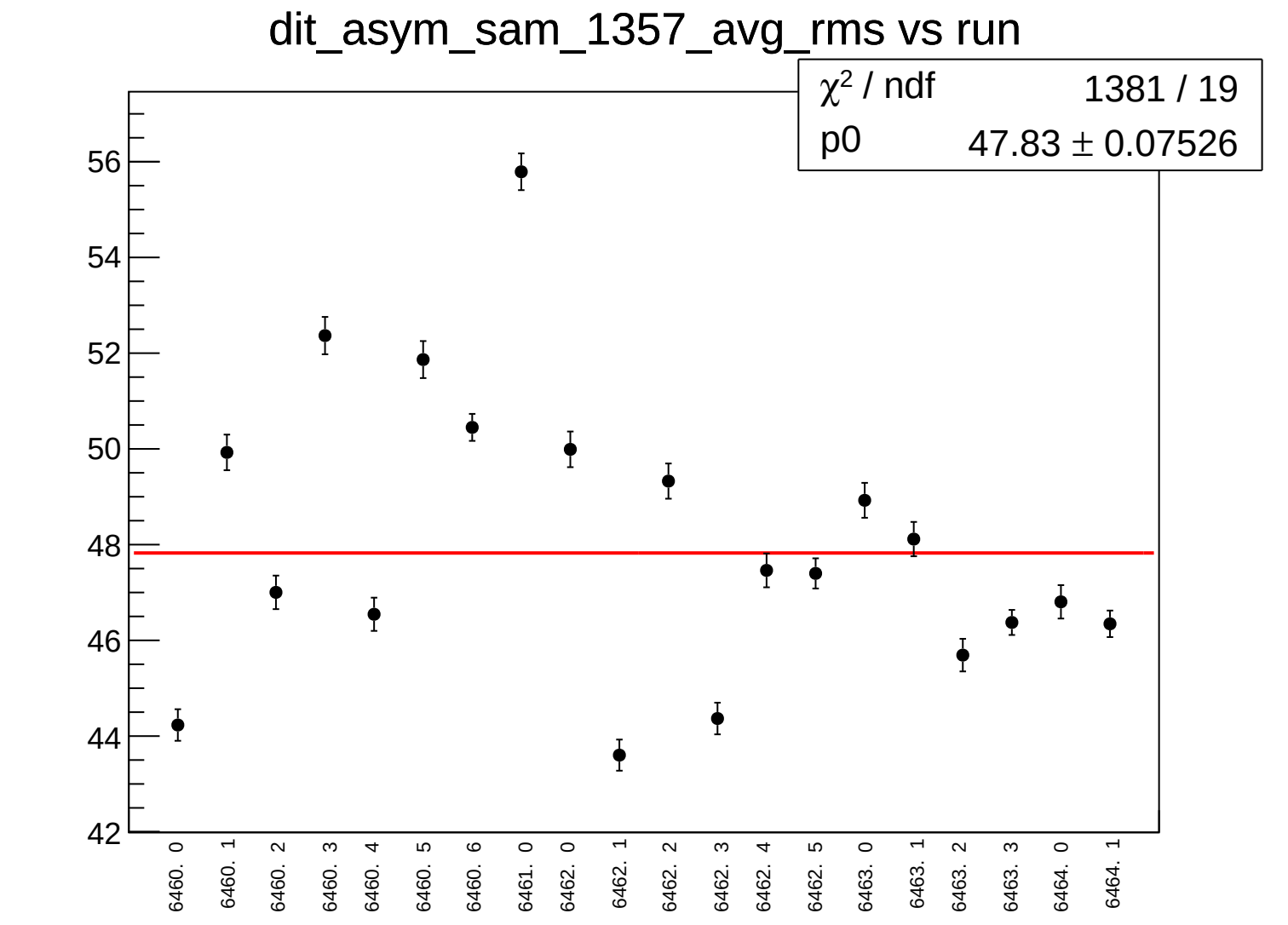

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 680.6 / 19
p0 43.63 ± 0.0686
50
48
46
44
42
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

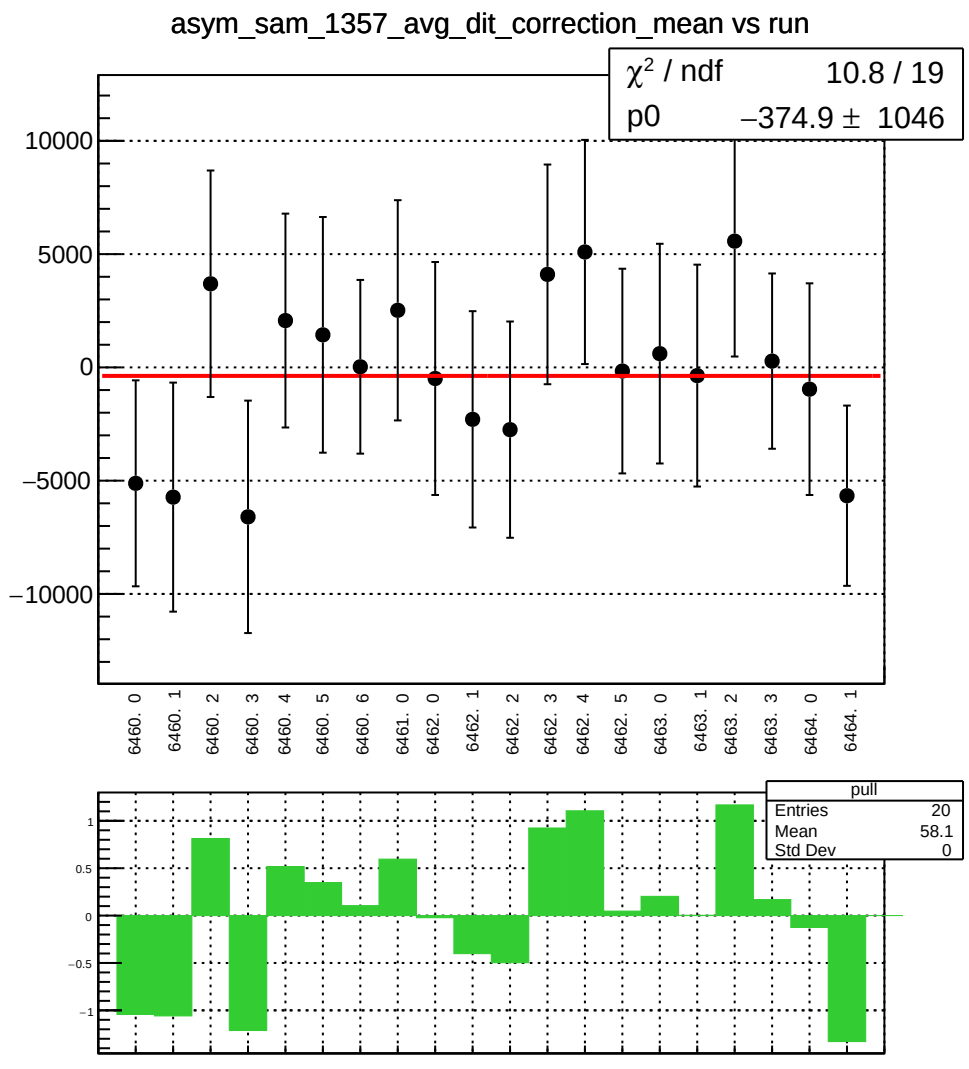

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.74 / 19
p0 −395.3 ± 1074
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.11
Std Dev 0
1
0.5
0
−0.5
−1

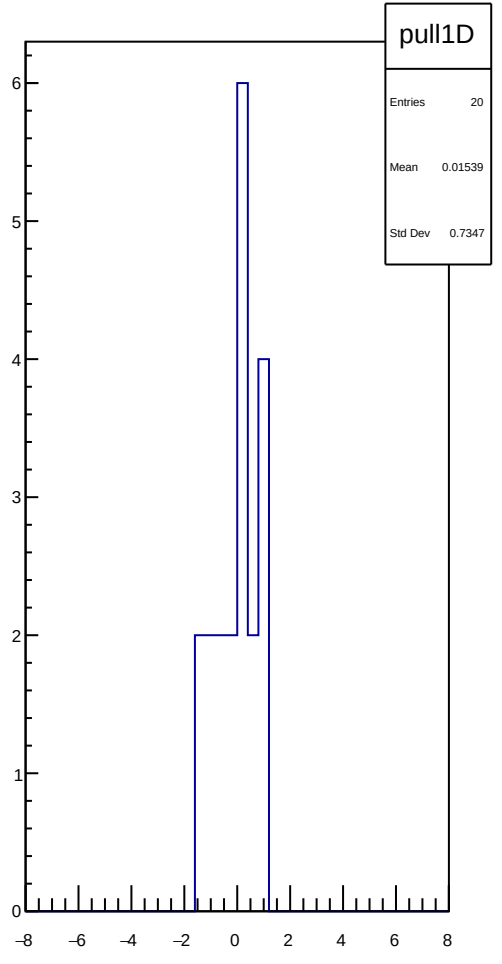

pull1D
Entries 20
Mean 0.01491
Std Dev 0.7327
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

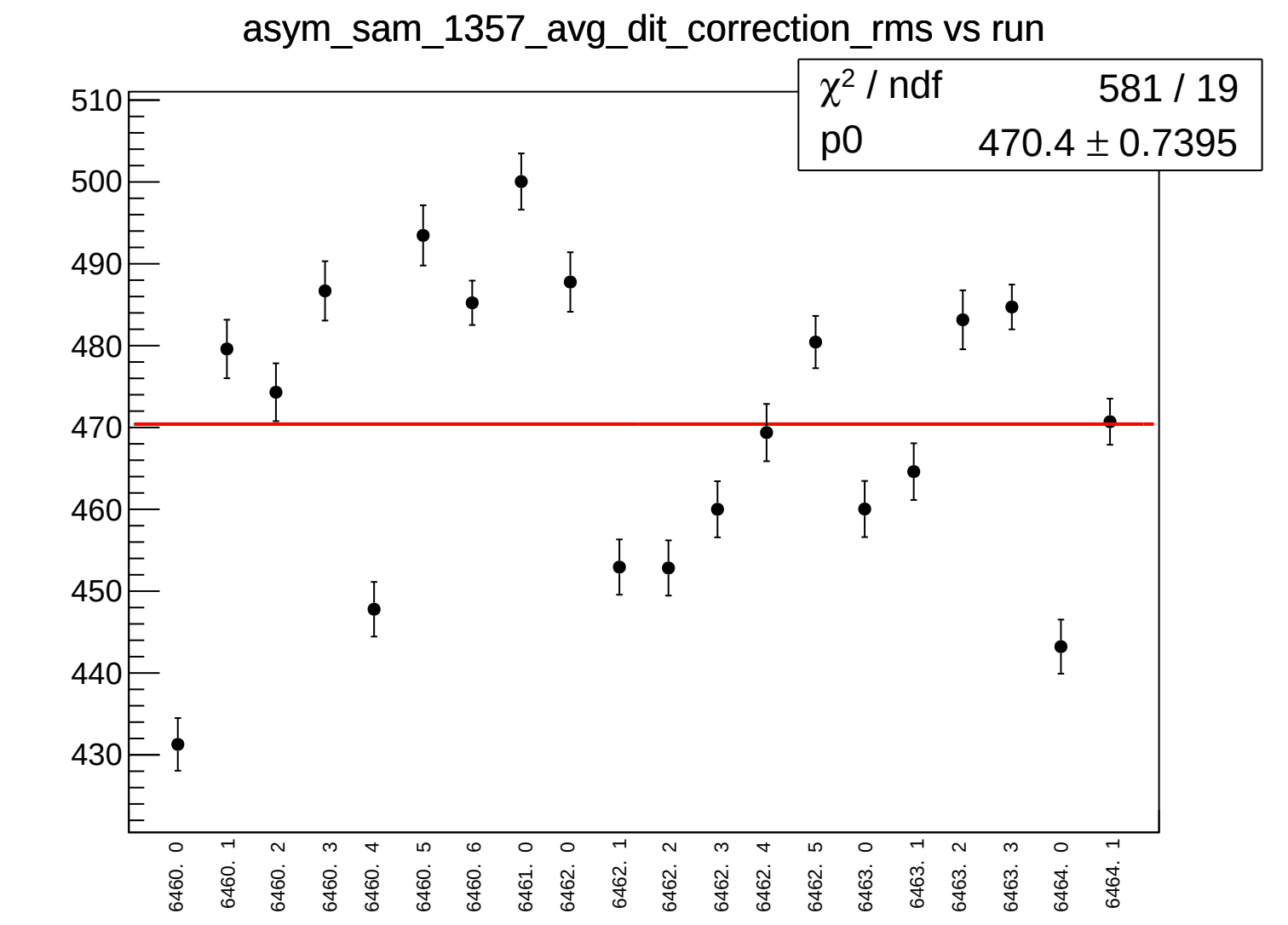

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 795.9 / 19
p0 482.9 ± 0.7593
520
500
480
460
440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

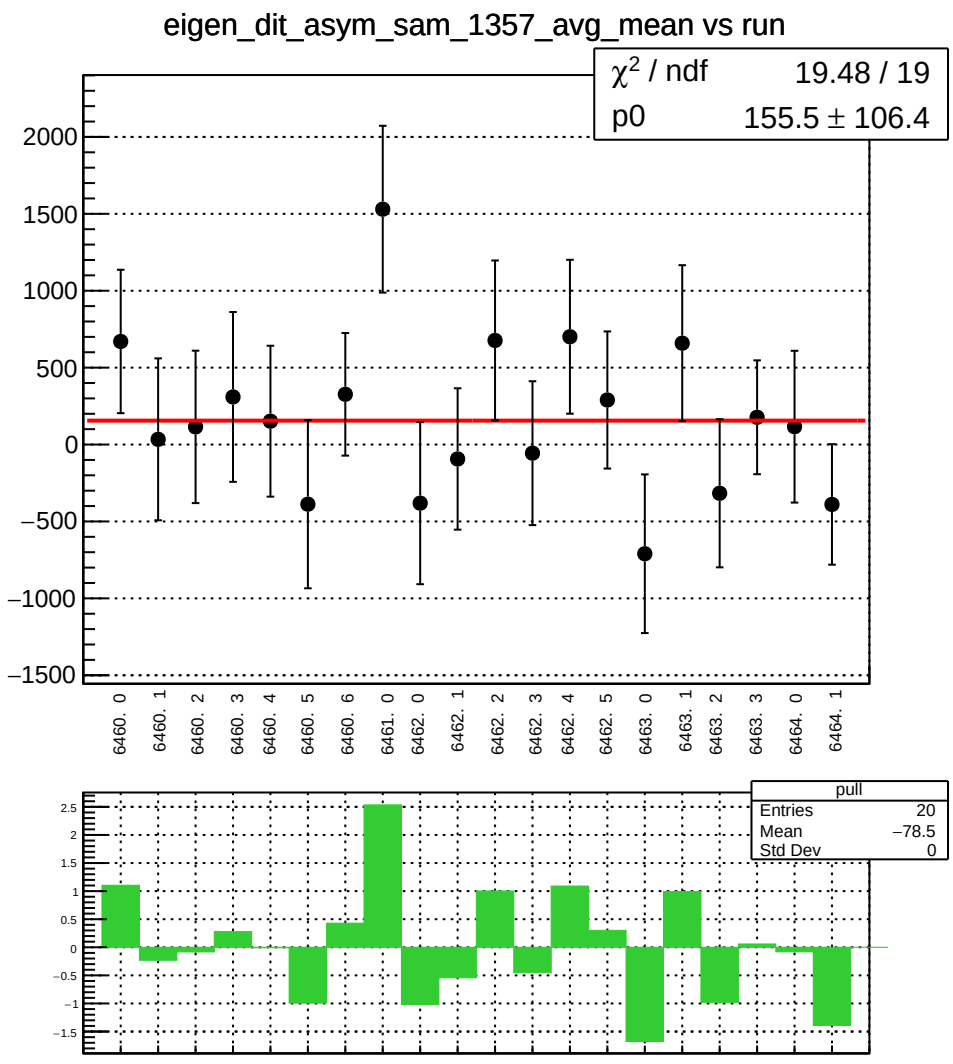

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 19.48 / 19
p0 155.5 ± 106.4
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −78.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0167
Std Dev 0.9868
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

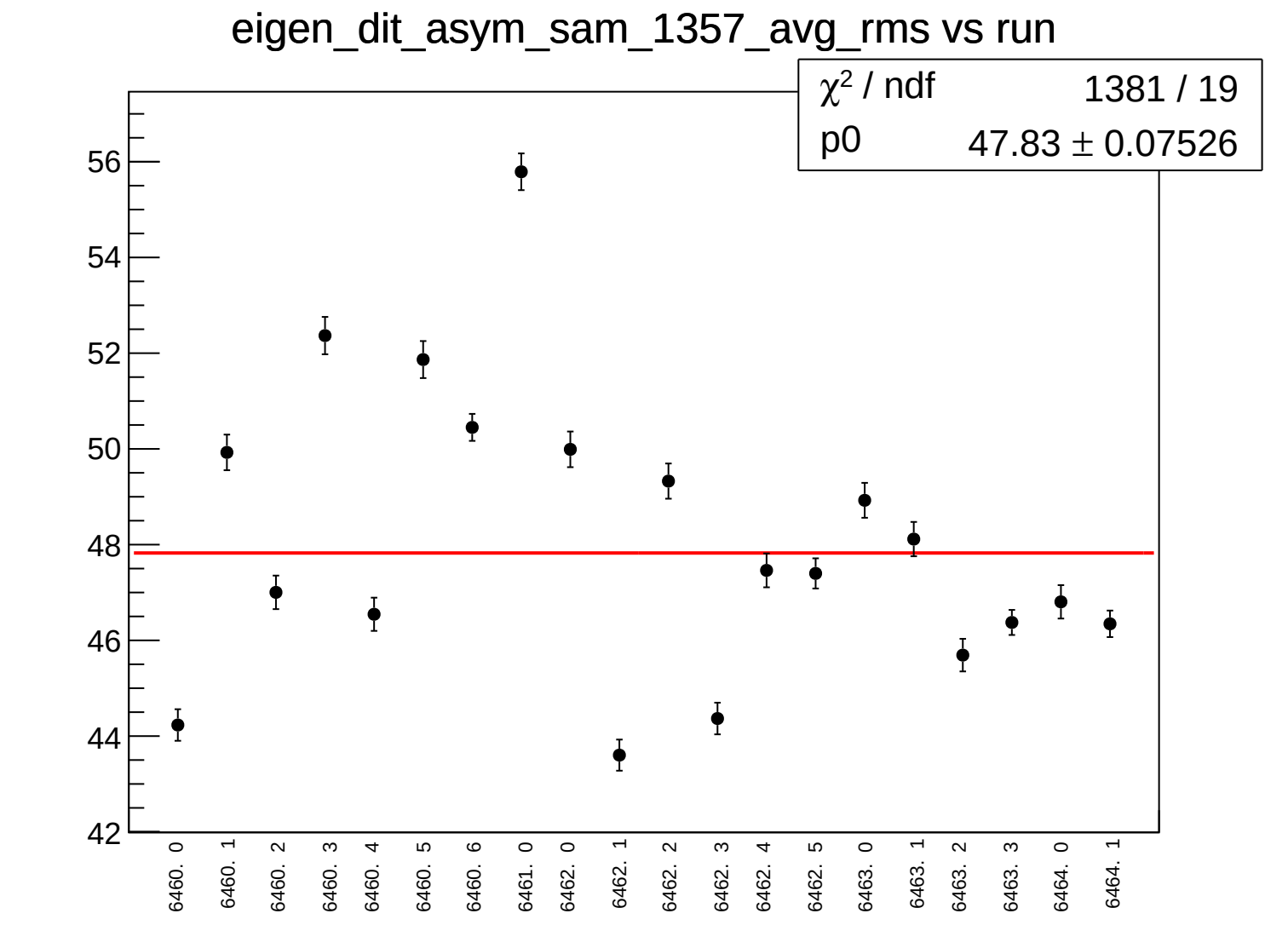

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1381 / 19
p0 47.83 ± 0.07526
56
54
52
50
48
46
44
42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

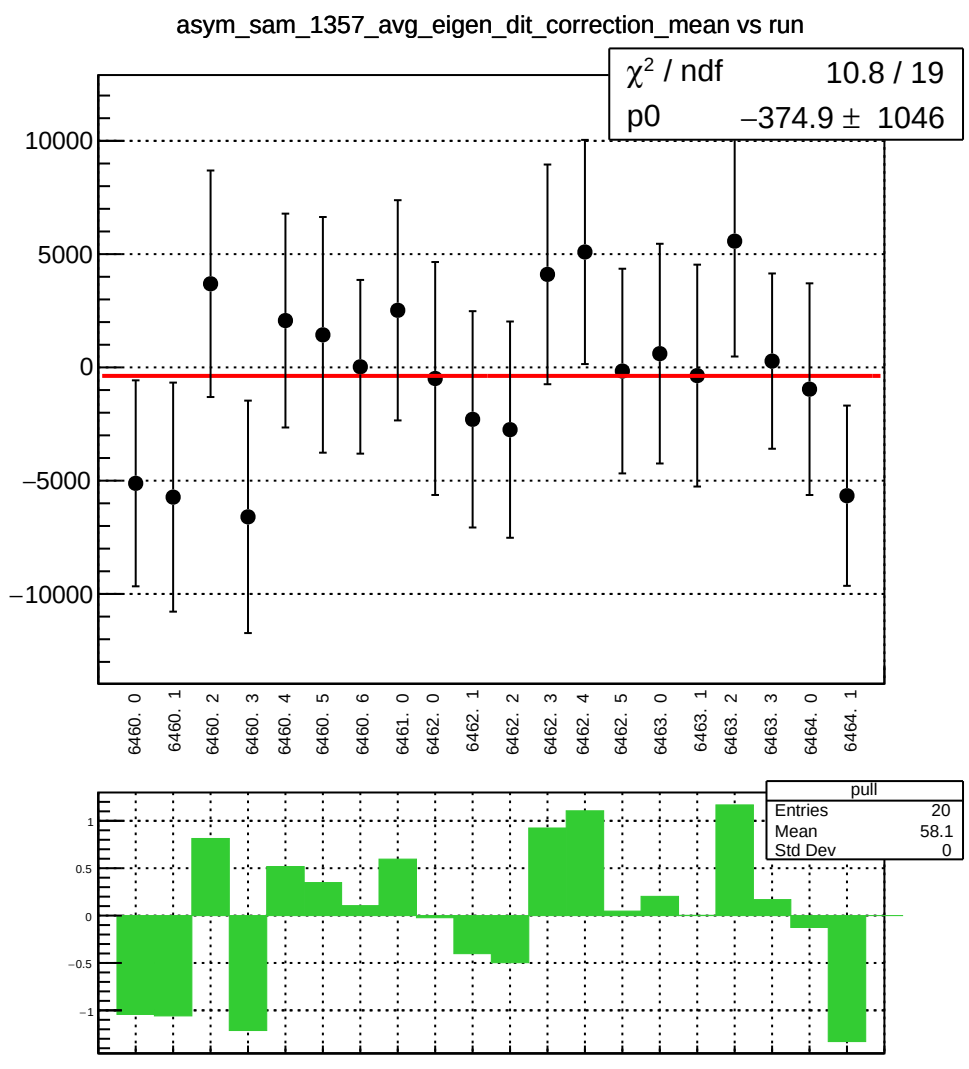

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 10.8 / 19
p0 −374.9 ± 1046
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.1
Std Dev 0
1
0.5
0
−0.5
−1

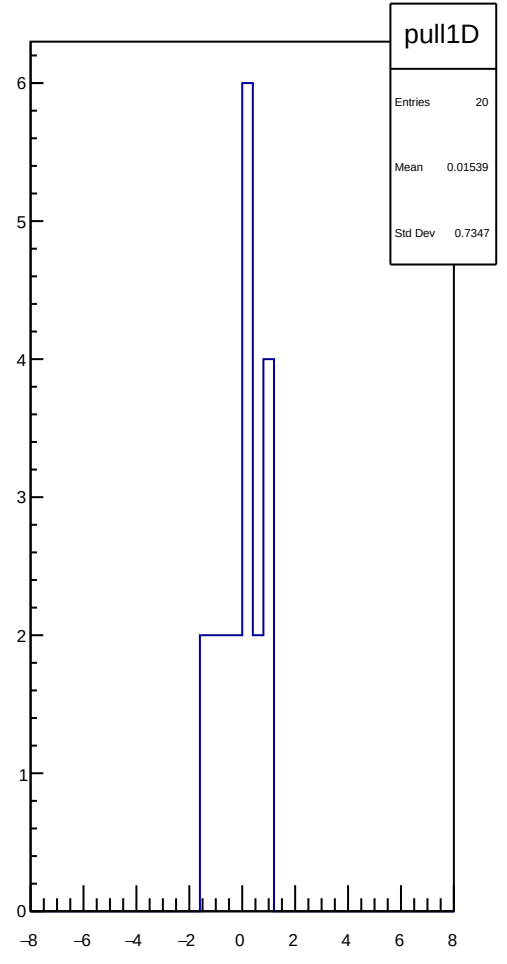

pull1D
Entries 20
Mean 0.01539
Std Dev 0.7347
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

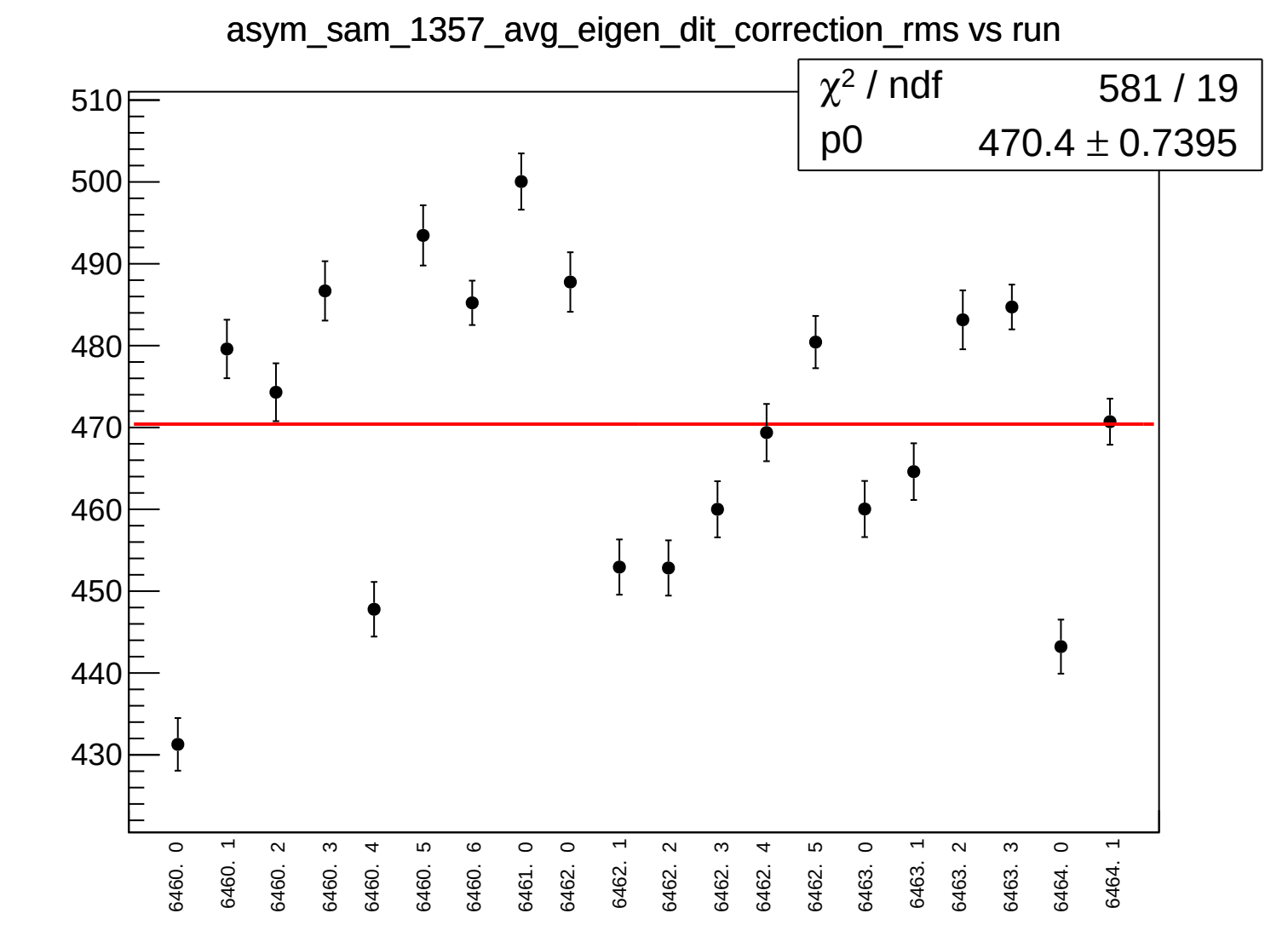

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 581 / 19
p0 470.4 ± 0.7395
510
500
490
480
470
460
450
440
430
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

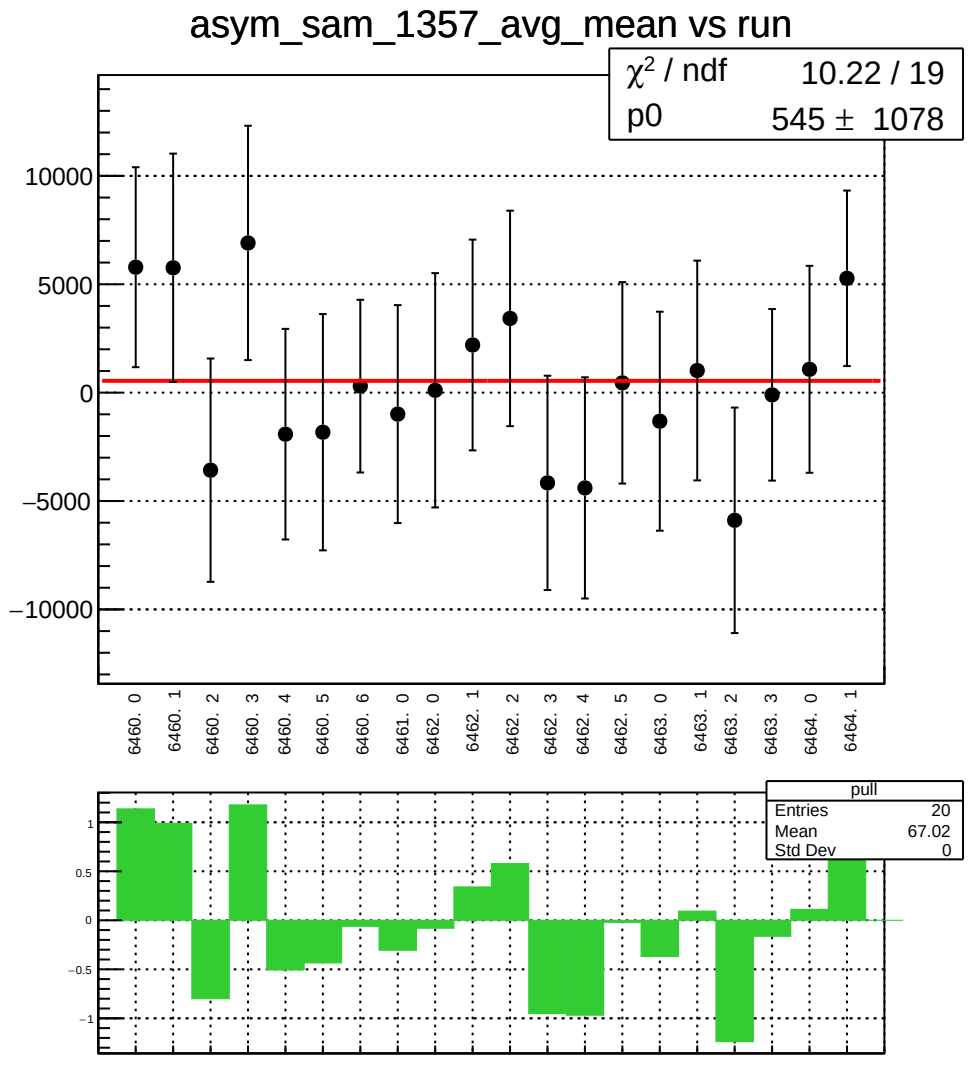

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 19.48 / 19
p0 155.5 ± 106.4
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −78.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0167
Std Dev 0.9868
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

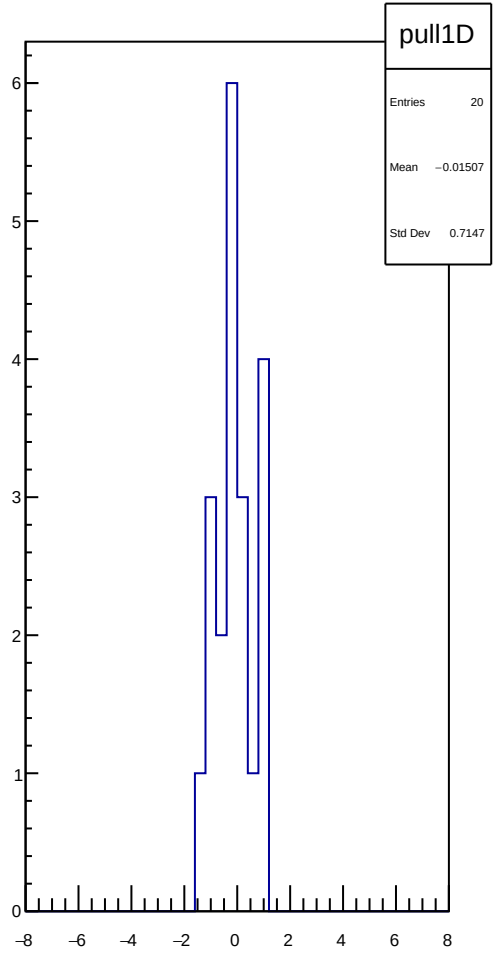

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1381 / 19
p0 47.83 ± 0.07526
56
54
52
50
48
46
44
42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

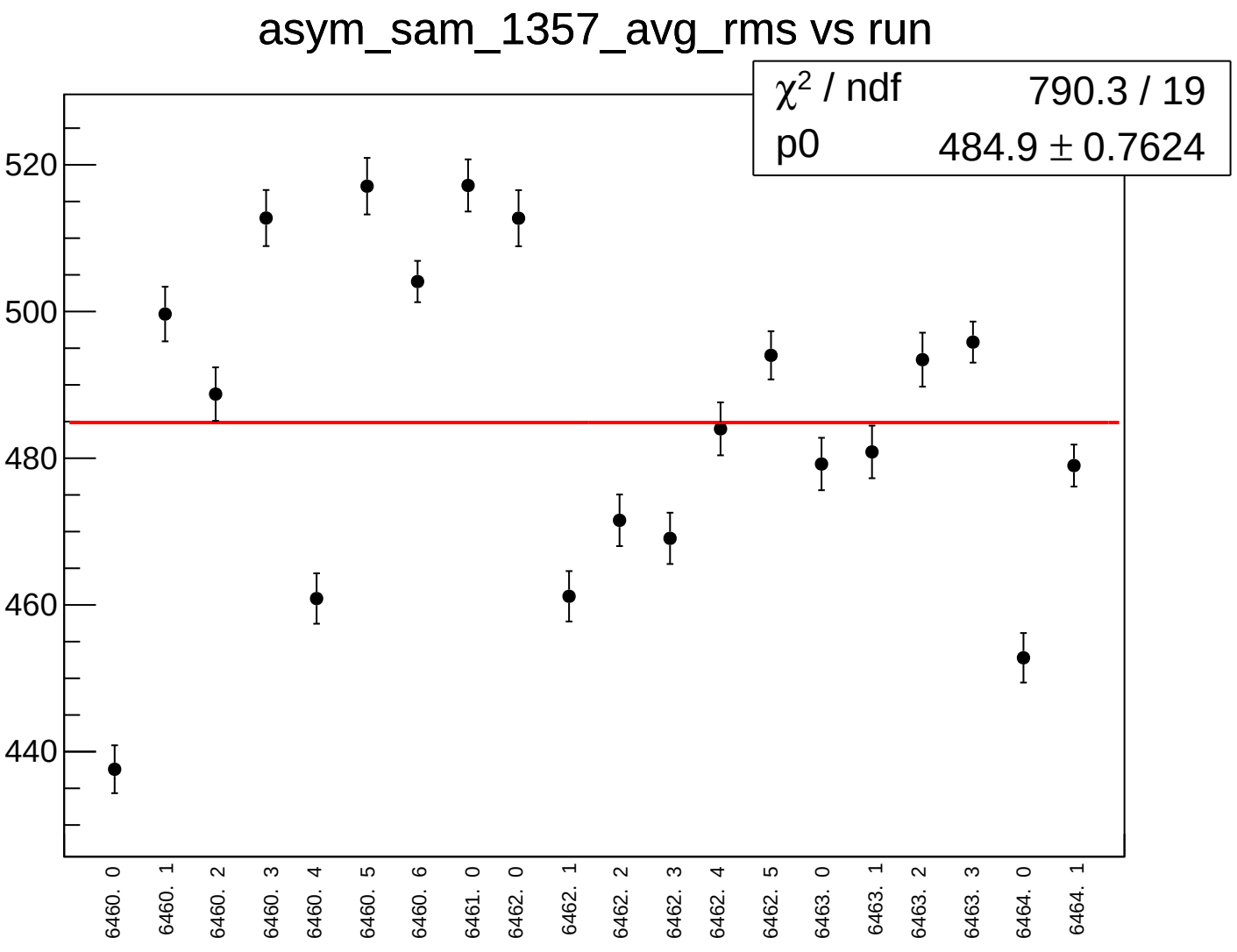

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.8 / 19
p0 −374.9 ± 1046
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.1
Std Dev 0
1
0.5
0
−0.5
−1

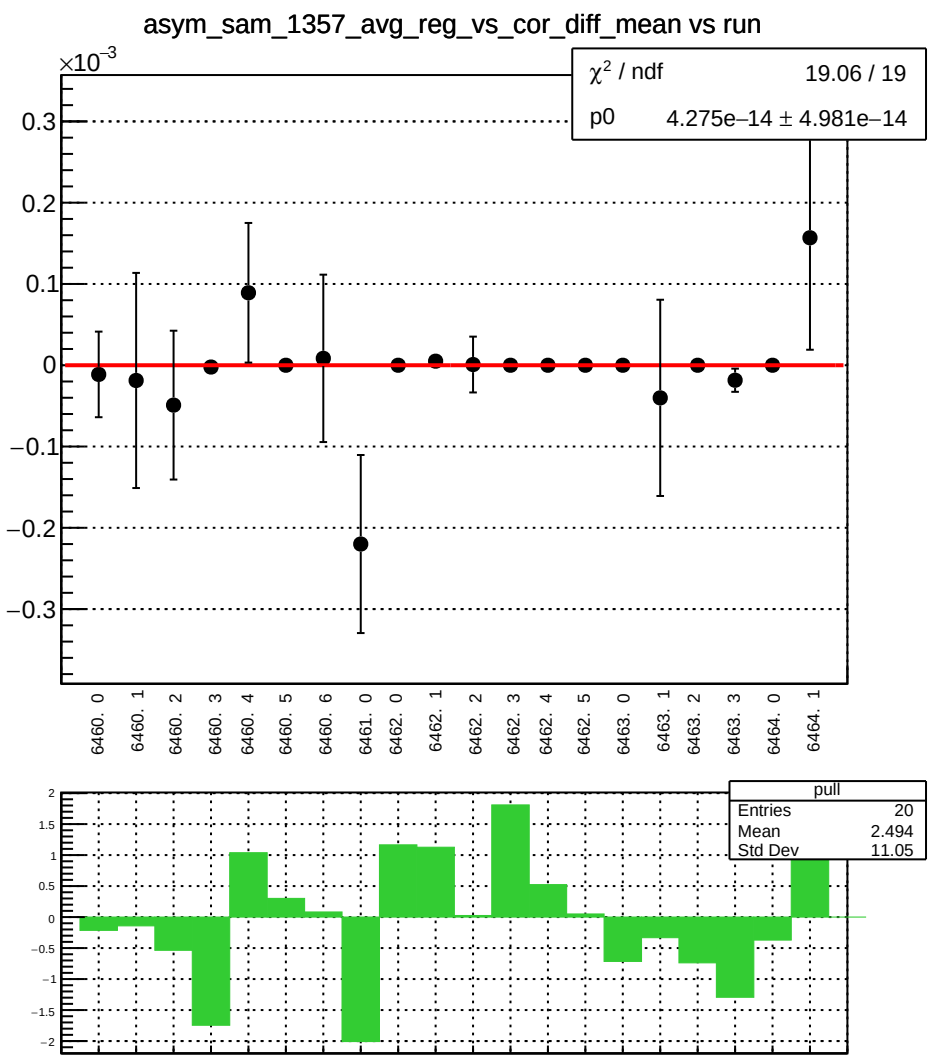

pull1D
Entries 20
Mean 0.01539
Std Dev 0.7347
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

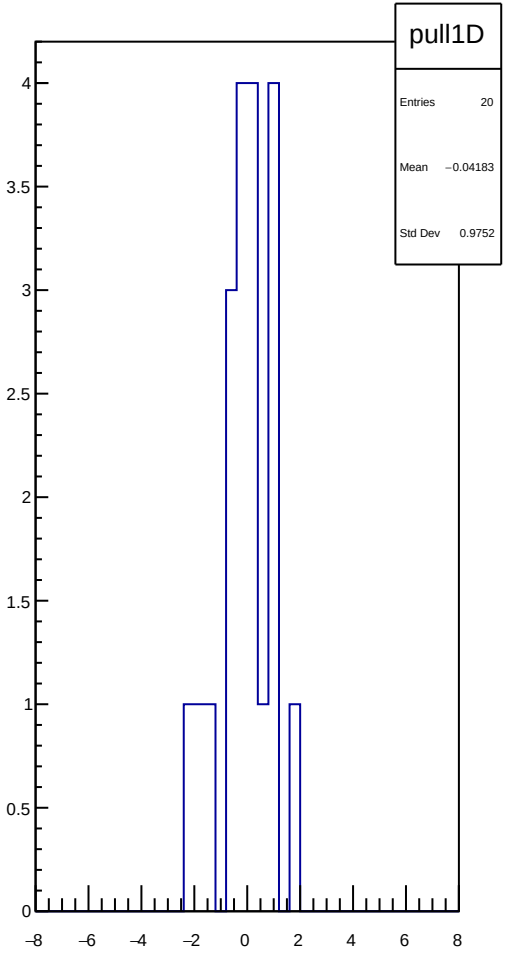

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 581 / 19
p0 470.4 ± 0.7395
510
500
490
480
470
460
450
440
430
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

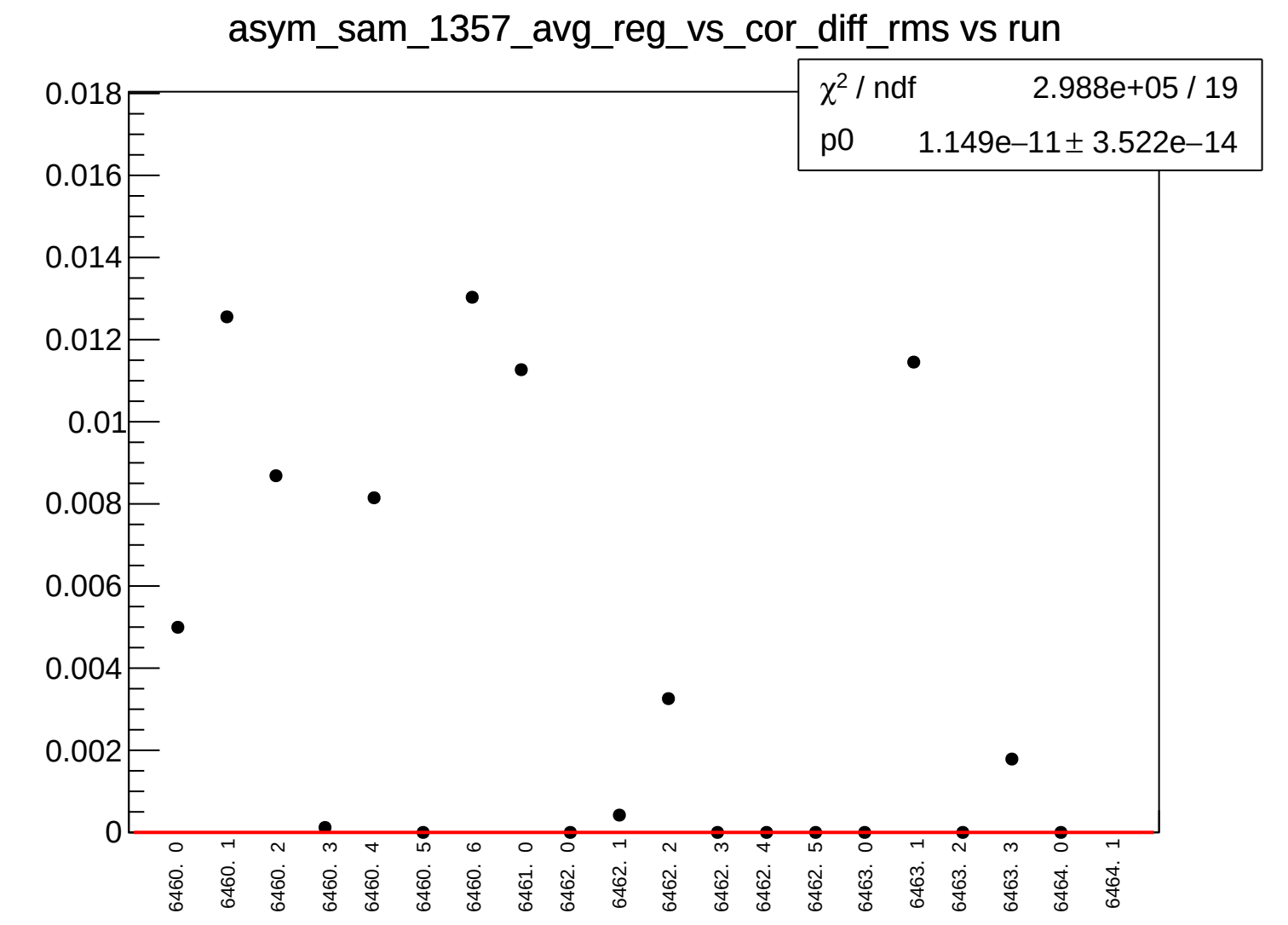

asym_sam_1357_avg_mean vs run
χ² / ndf 10.22 / 19
p0 545 ± 1078
10000
5000
0
−5000
−10000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 67.02
Std Dev 0
1
0.5
0
−0.5
−1

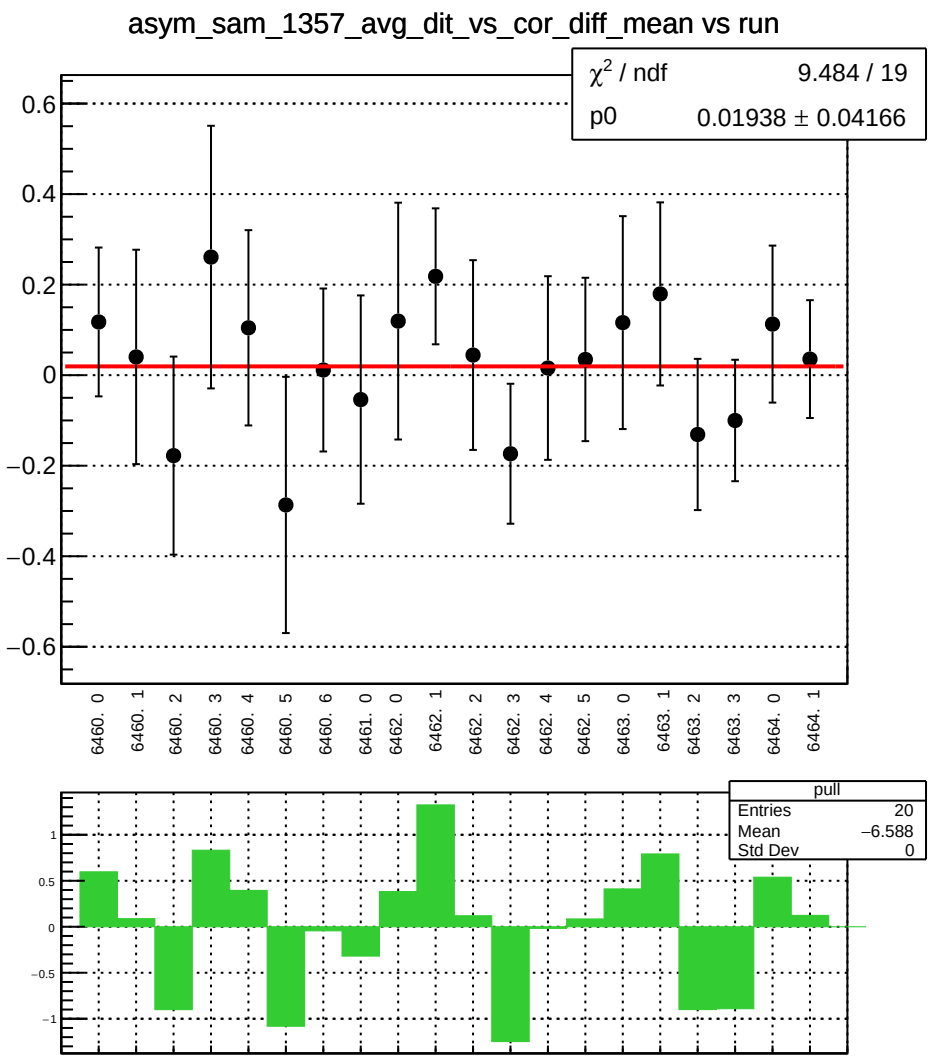

pull1D
Entries 20
Mean −0.01507
Std Dev 0.7147
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

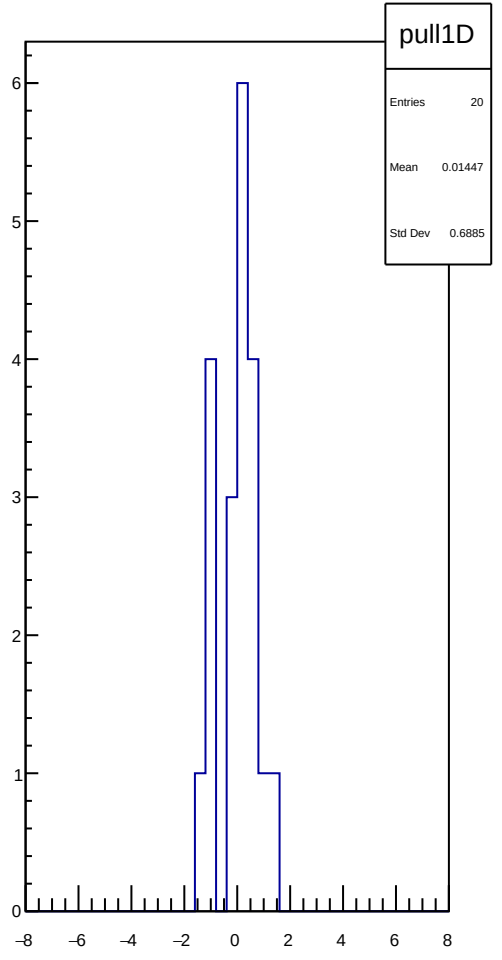

asym_sam_1357_avg_rms vs run
χ² / ndf 790.3 / 19
p0 484.9 ± 0.7624
520
500
480
460
440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

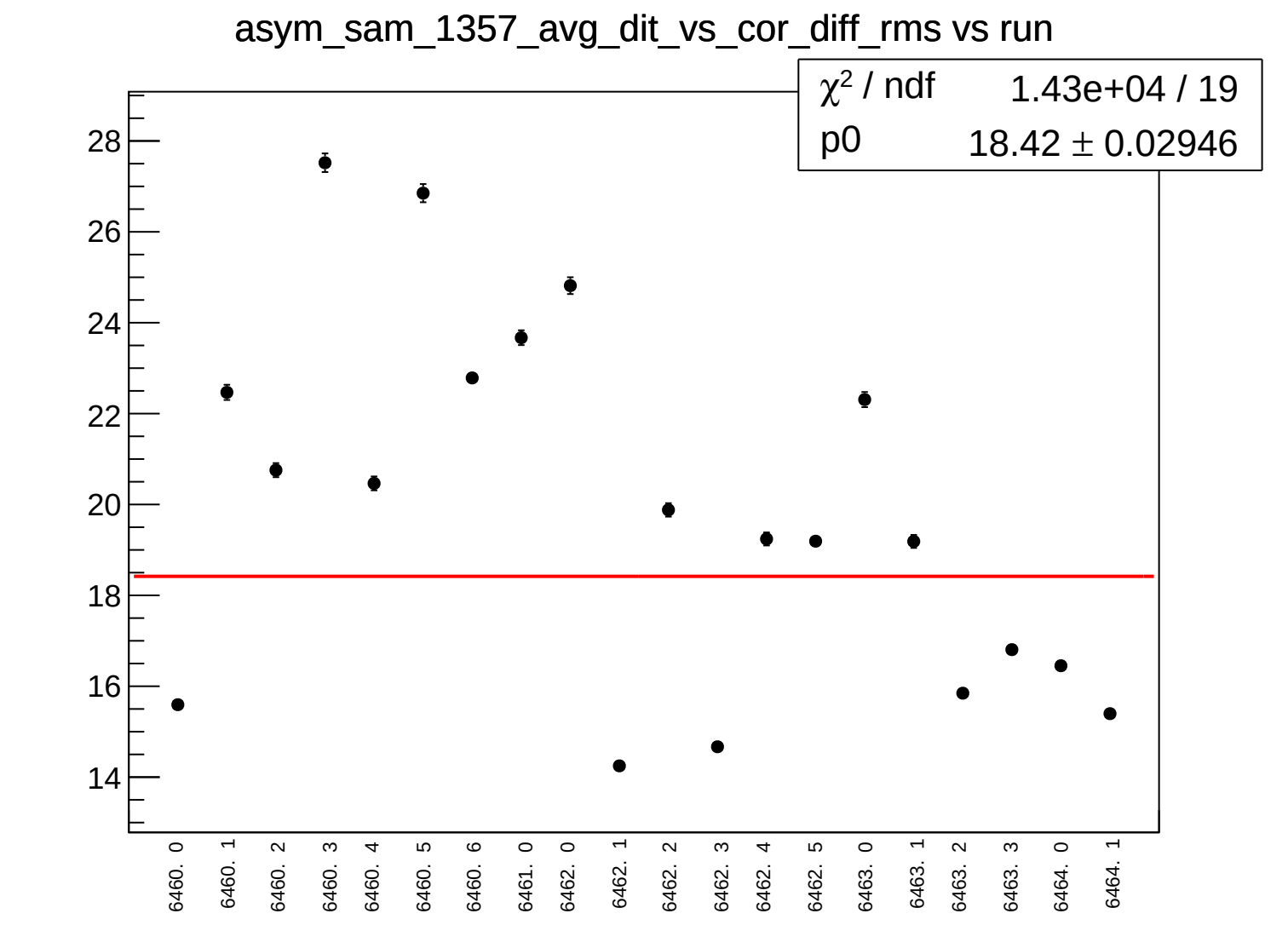

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 19.06 / 19
p0 4.275e−14 ± 4.981e−14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.494
Std Dev 11.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

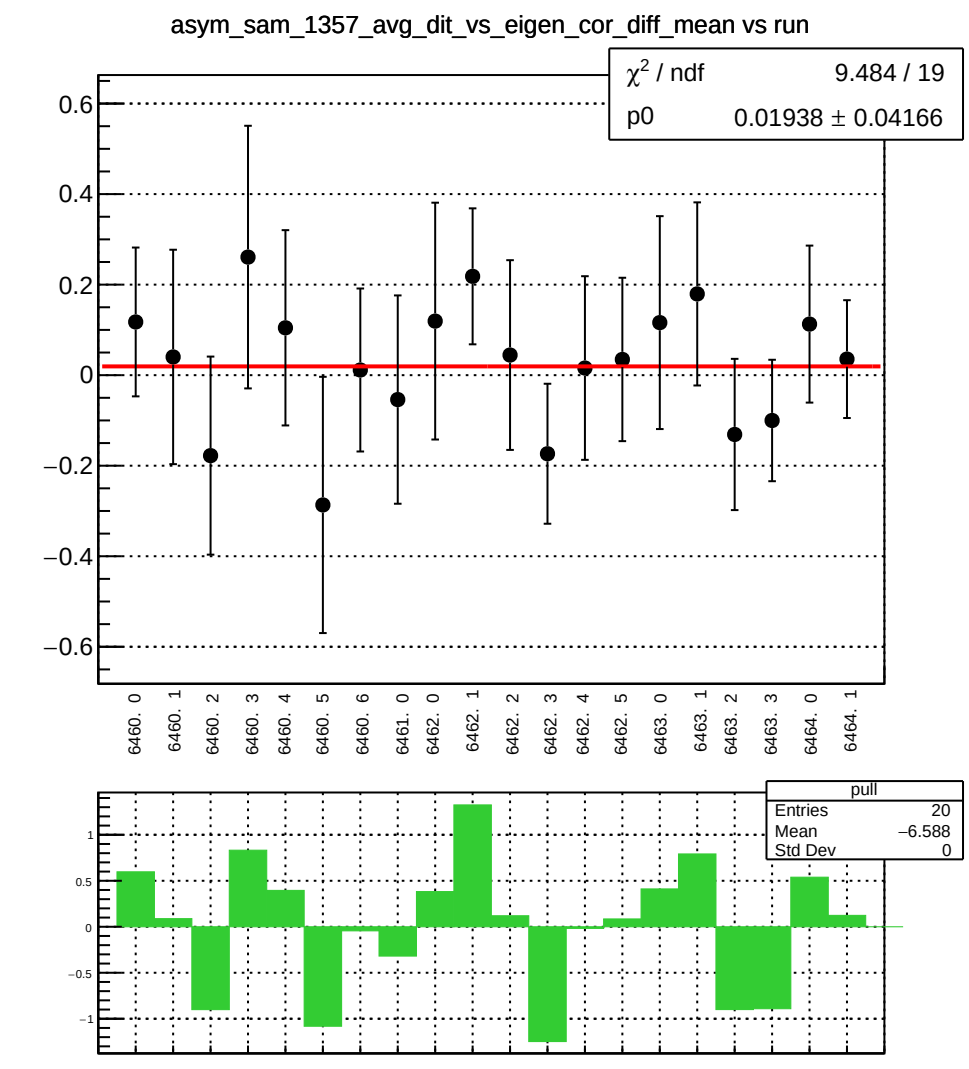

pull1D
Entries 20
Mean −0.04183
Std Dev 0.9752
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

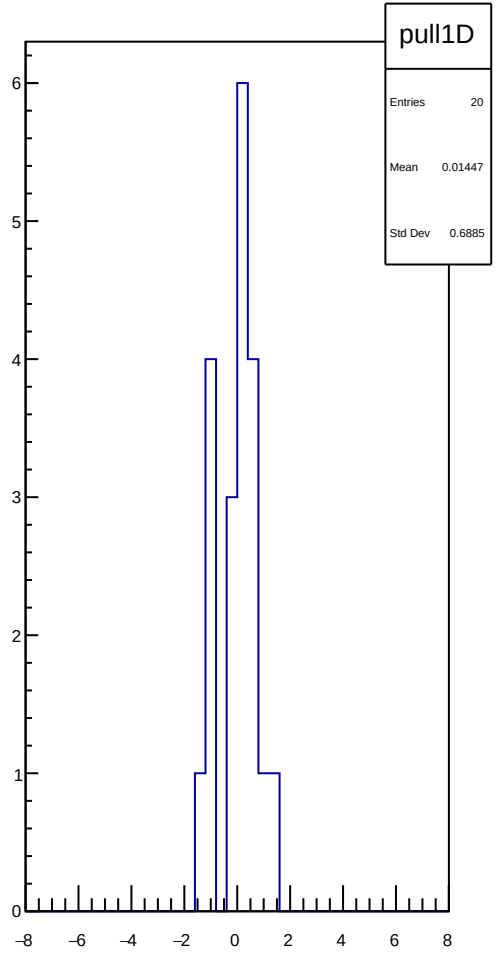

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.988e+05 / 19
p0 1.149e−11 ± 3.522e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

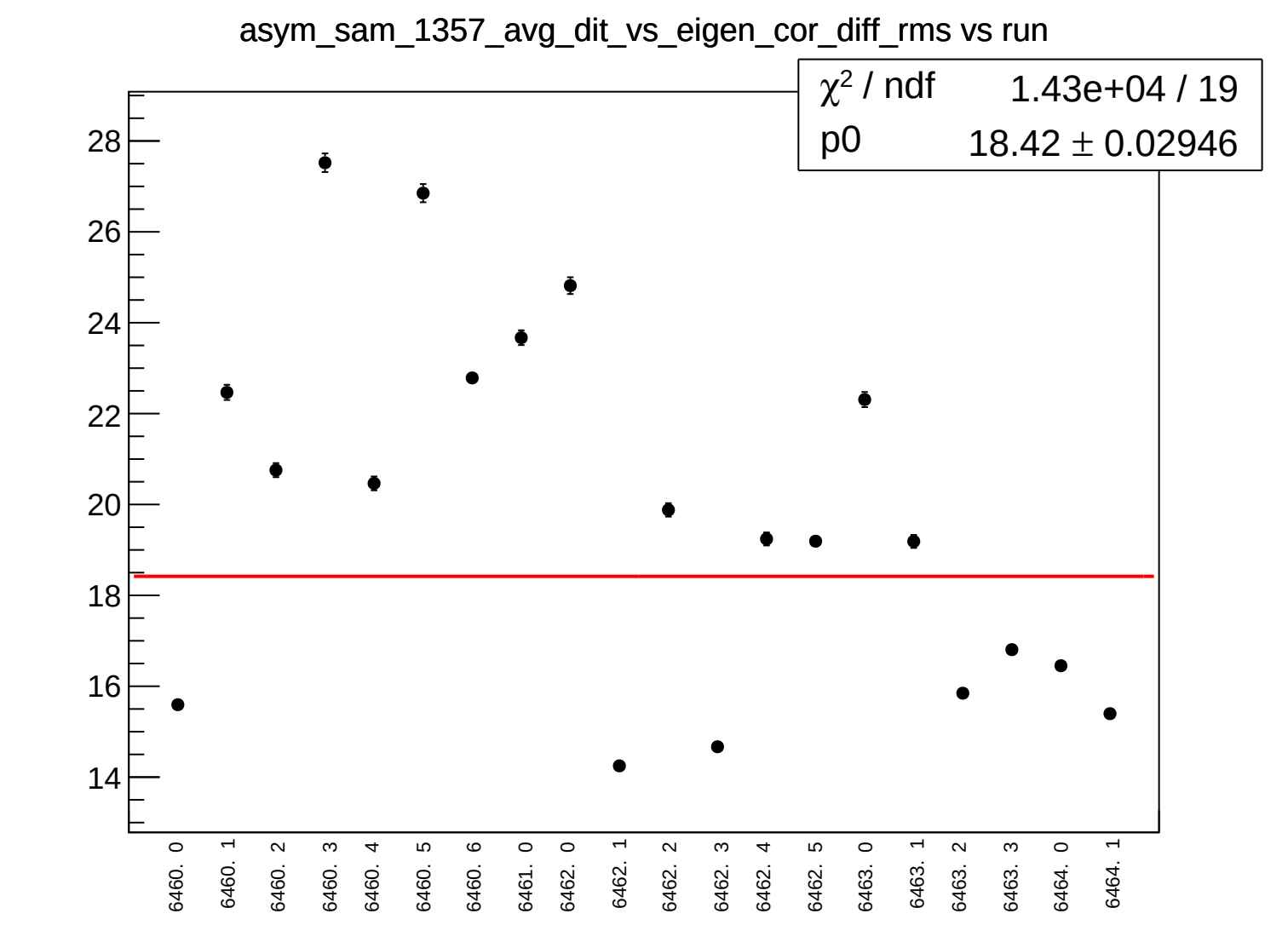

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 9.484 / 19
p0 0.01938 ± 0.04166
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.588
Std Dev 0
1
0.5
0
−0.5
−1

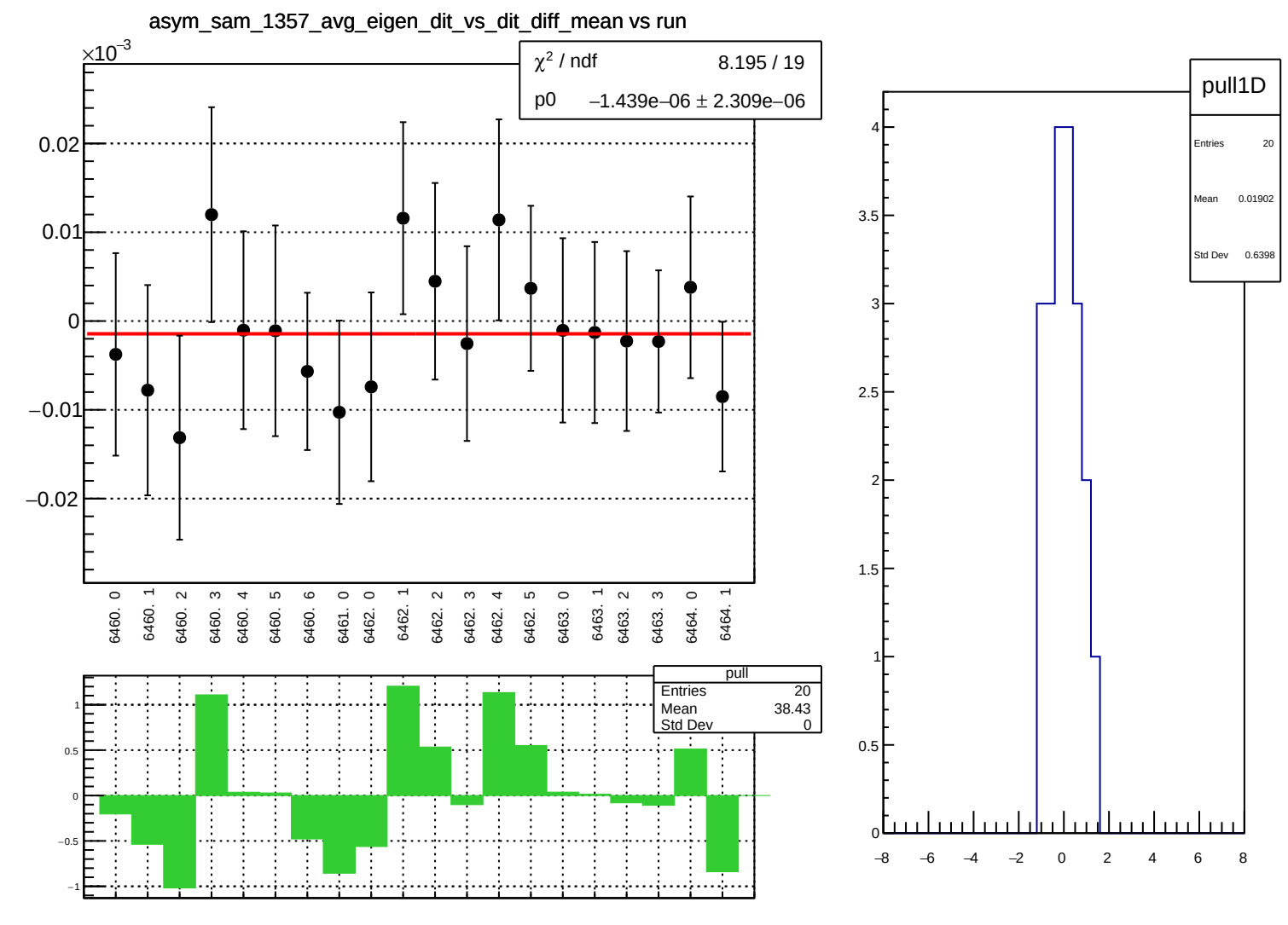

pull1D
Entries 20
Mean 0.01447
Std Dev 0.6885
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

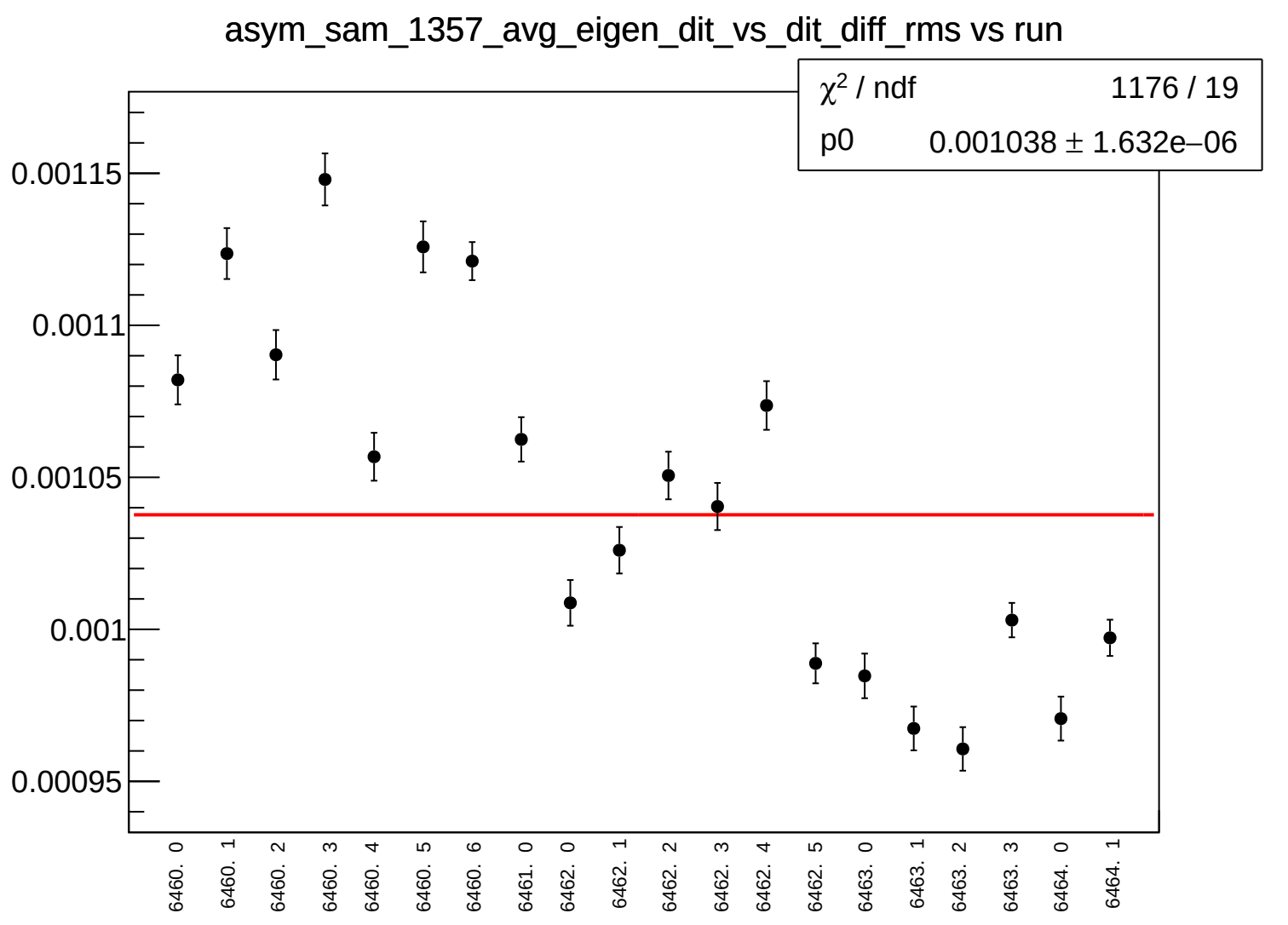

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.43e+04 / 19
p0 18.42 ± 0.02946
28
26
24
22
20
18
16
14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

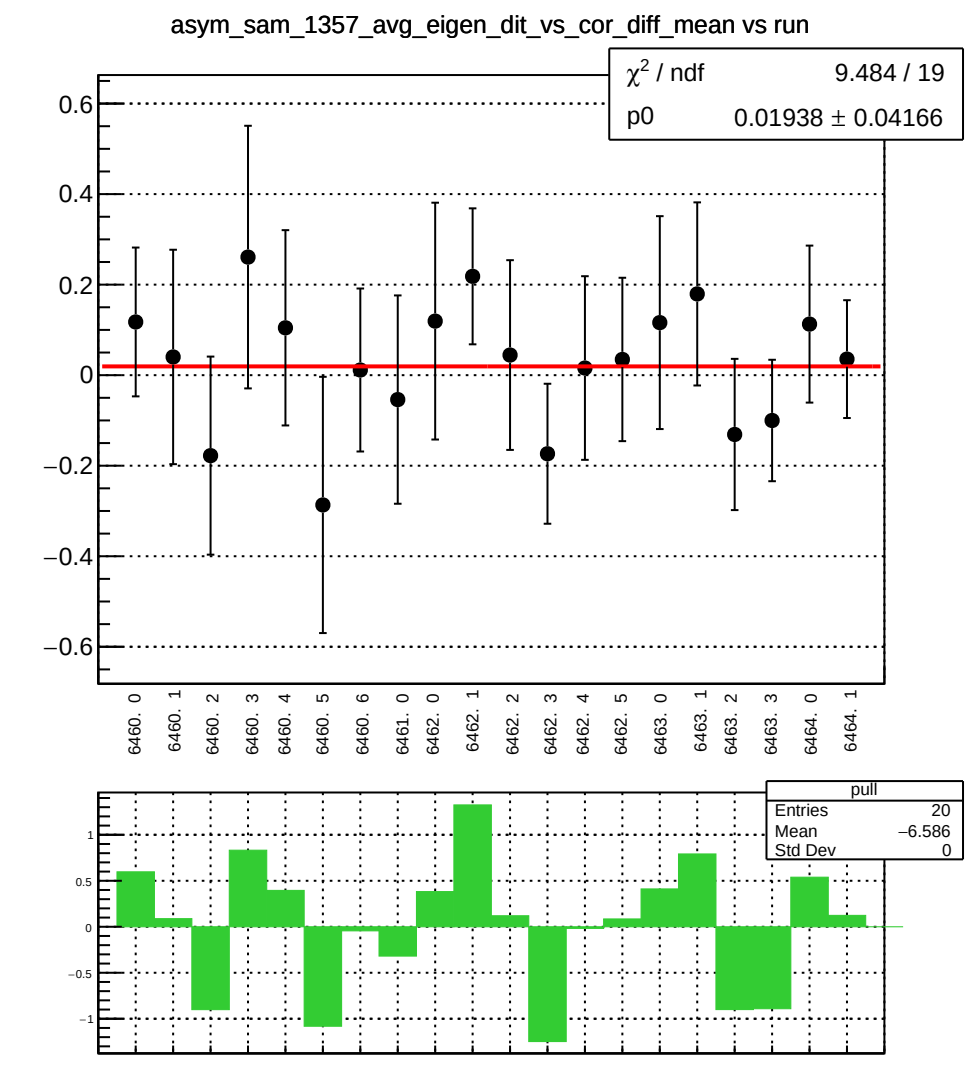

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 9.484 / 19
p0 0.01938 ± 0.04166
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.588
Std Dev 0
1
0.5
0
−0.5
−1

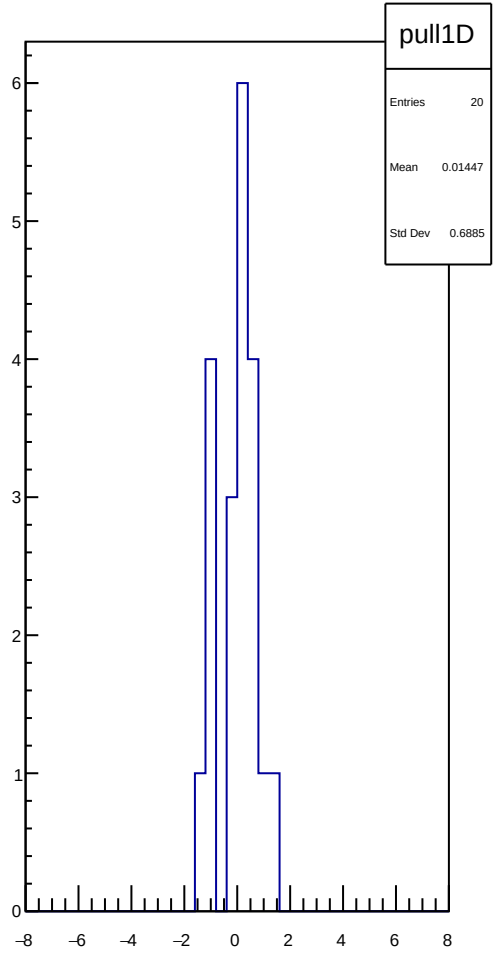

pull1D
Entries 20
Mean 0.01447
Std Dev 0.6885
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

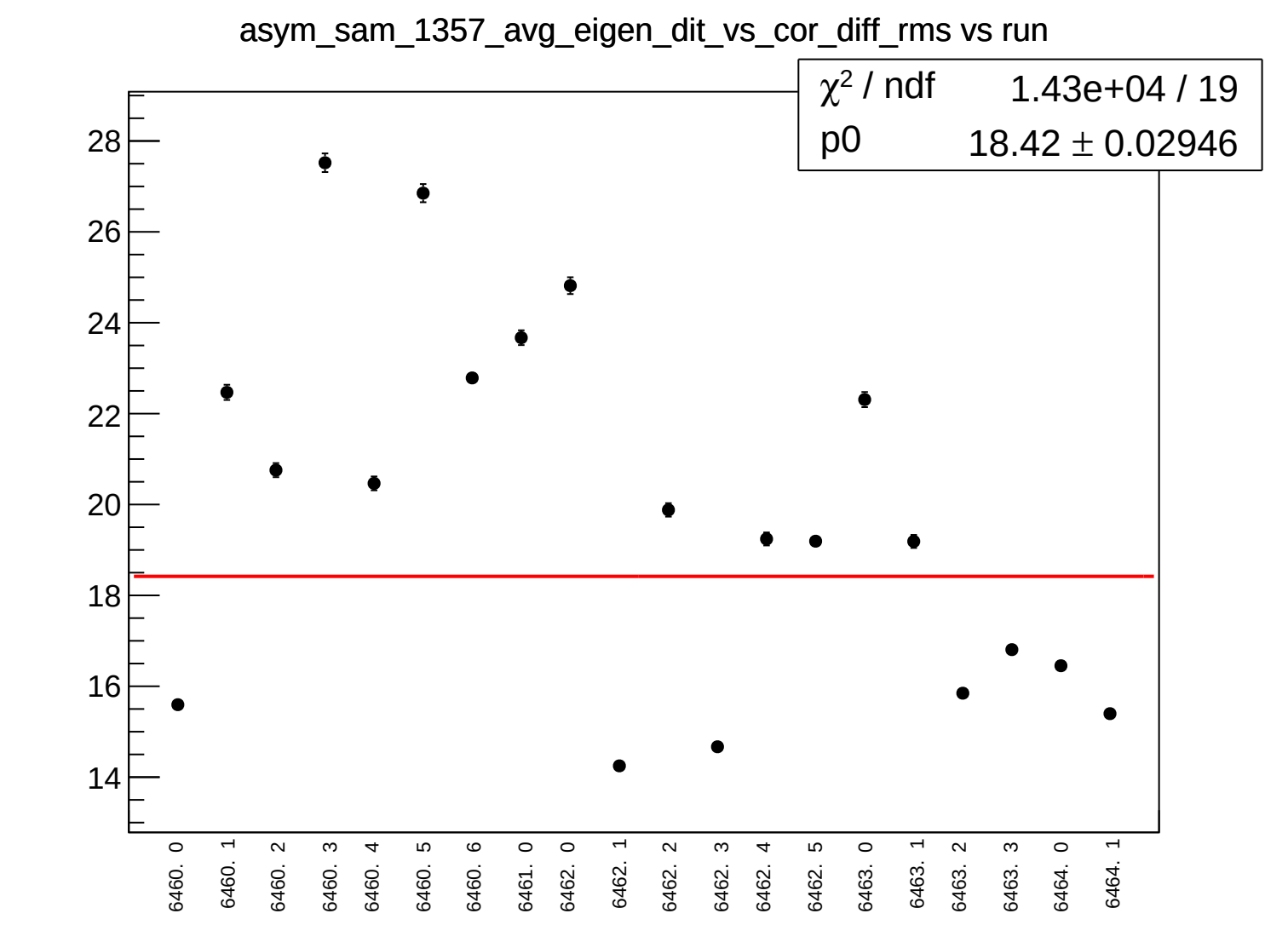

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.43e+04 / 19
p0 18.42 ± 0.02946
28
26
24
22
20
18
16
14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

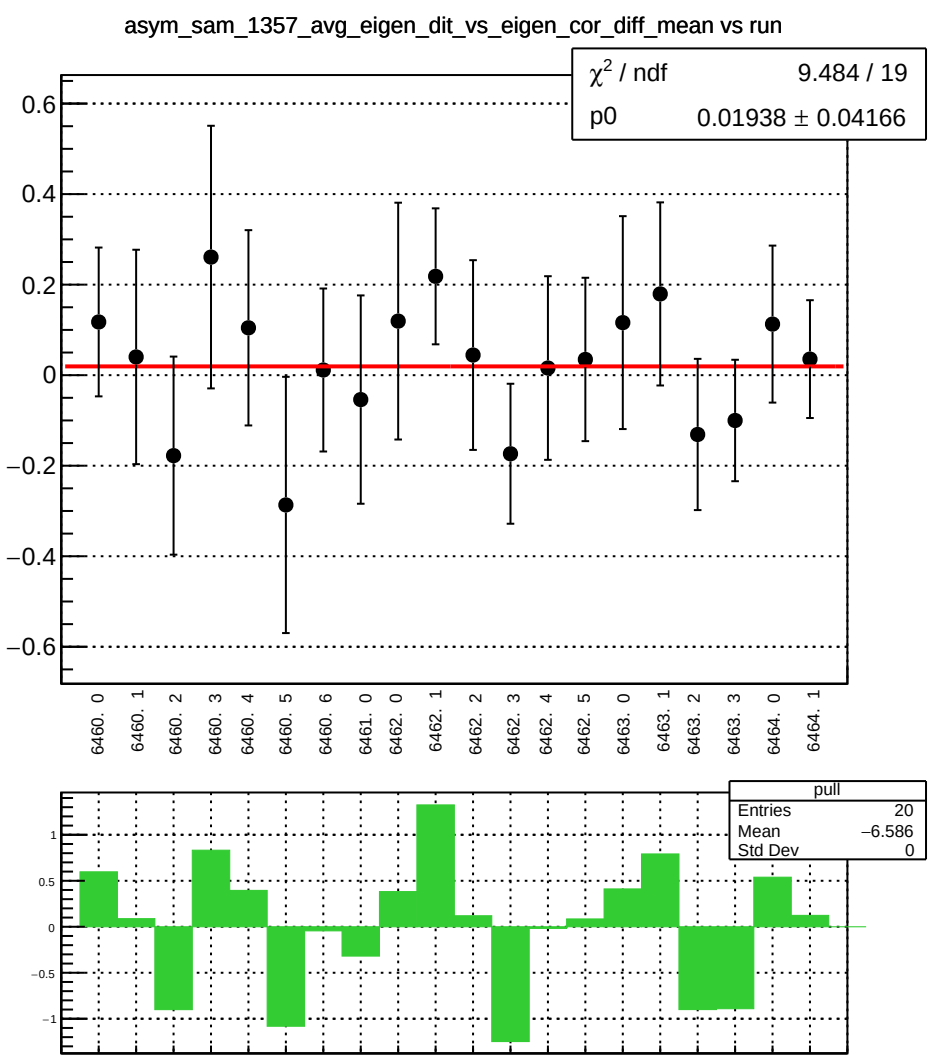

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 8.195 / 19
p0 −1.439e−06 ± 2.309e−06
0.02
0.01
0
−0.01
−0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 38.43
Std Dev 0
pull1D
Entries 20
Mean 0.01902
Std Dev 0.6398

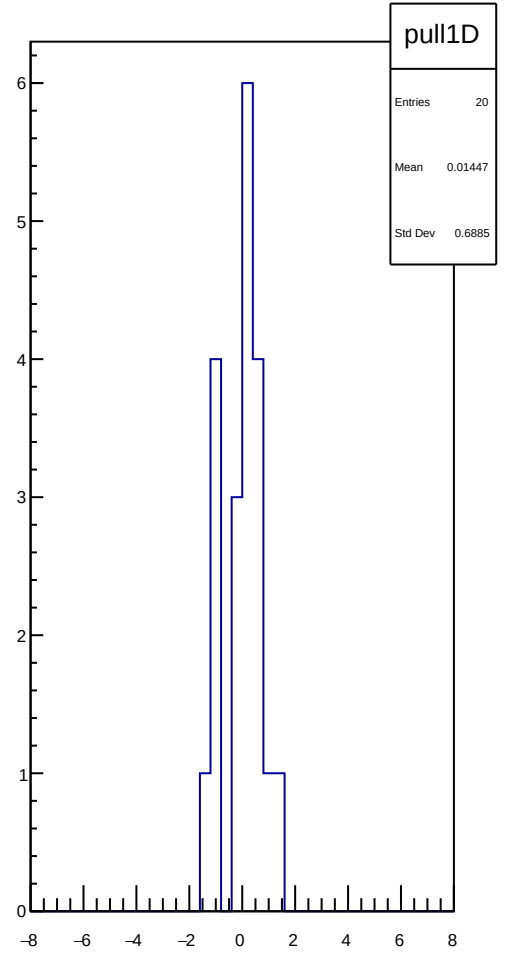

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1176 / 19
p0 0.001038 ± 1.632e−06
0.00115
0.0011
0.00105
0.001
0.00095
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

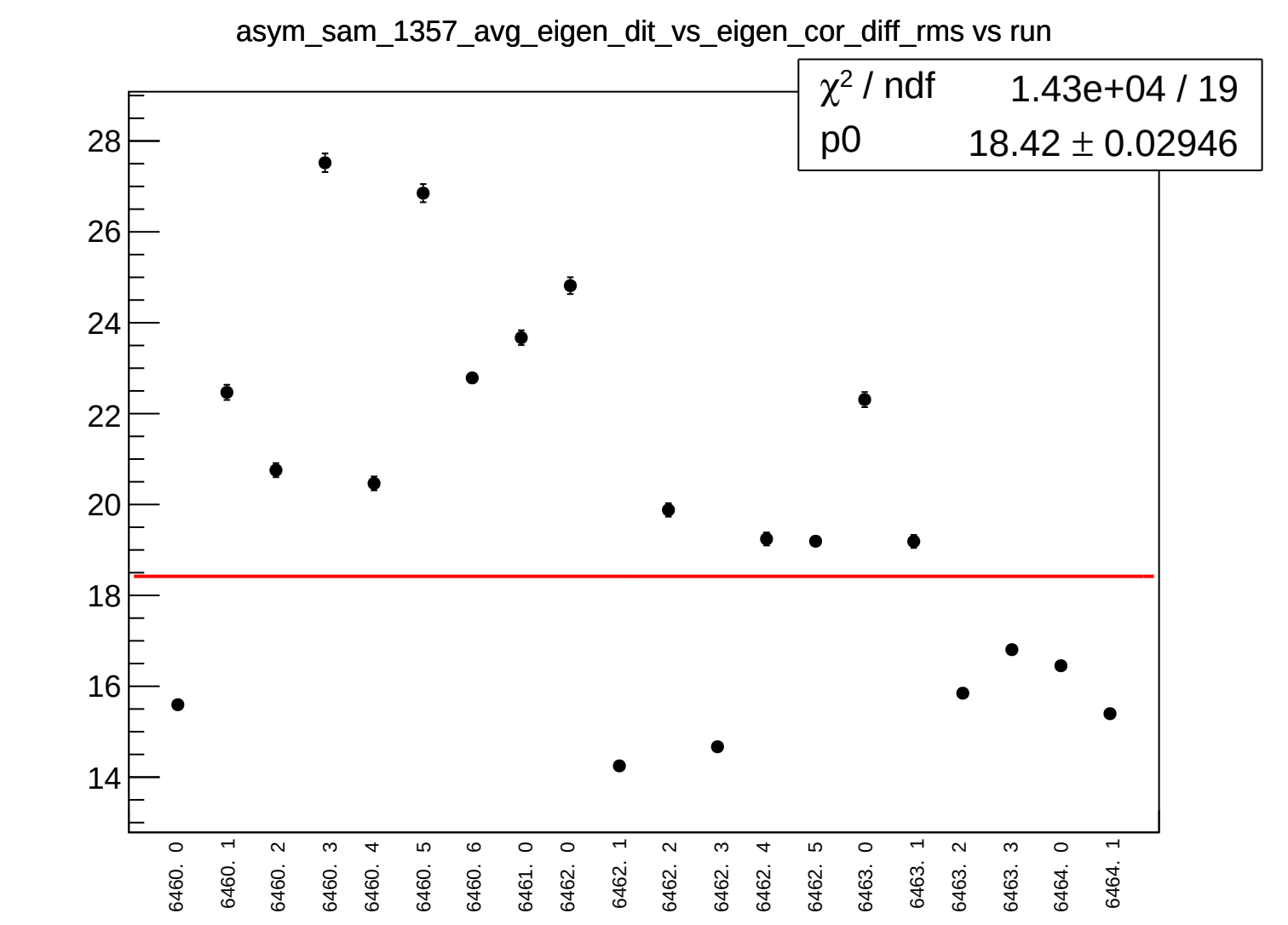

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 9.484 / 19
p0 0.01938 ± 0.04166
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.586
Std Dev 0
1
0.5
0
−0.5
−1

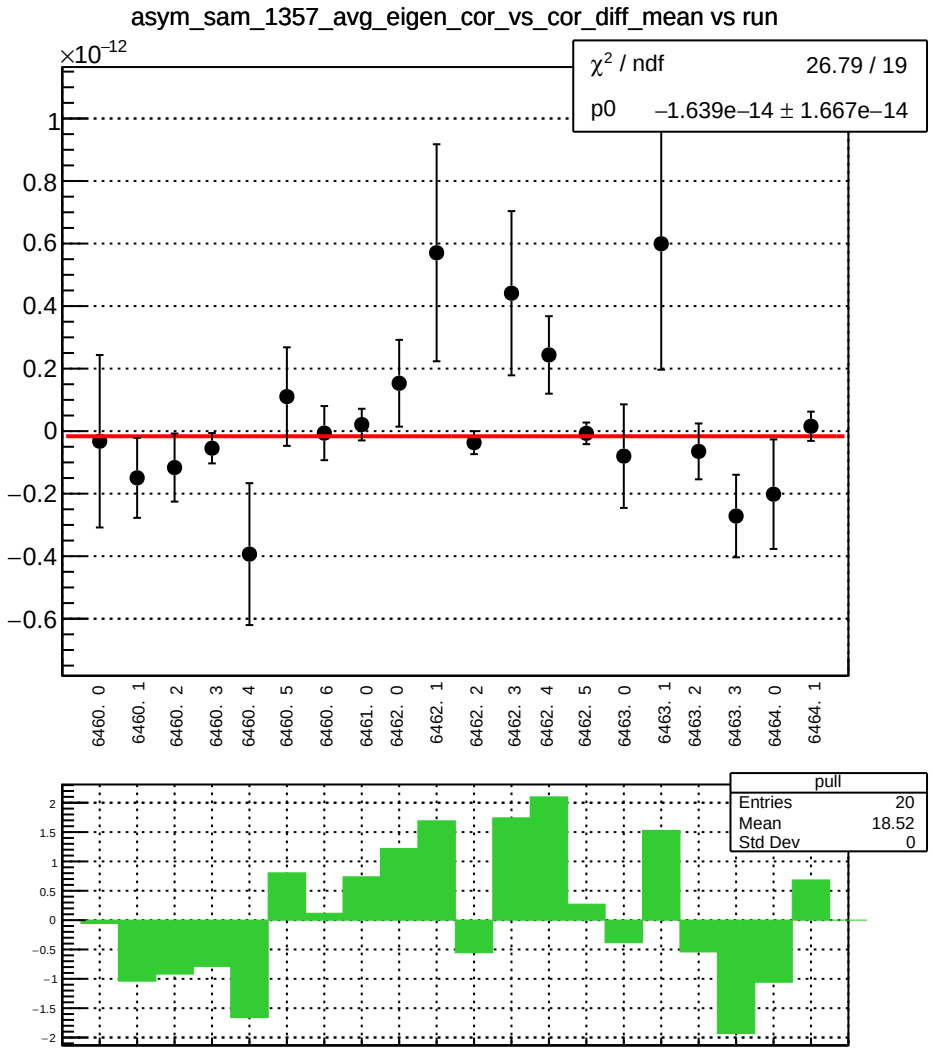

pull1D
Entries 20
Mean 0.01447
Std Dev 0.6885
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

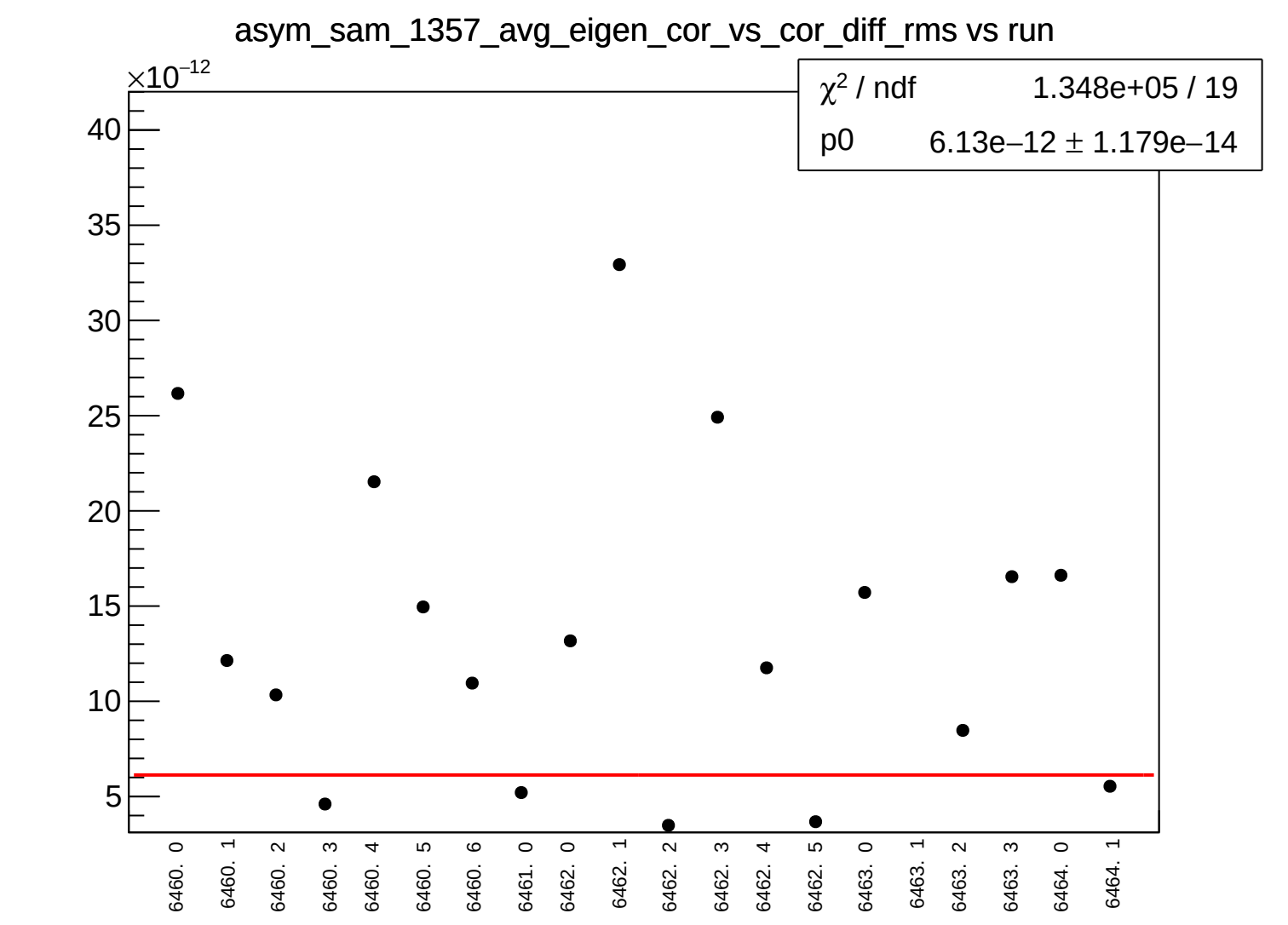

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.43e+04 / 19
p0 18.42 ± 0.02946
28
26
24
22
20
18
16
14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

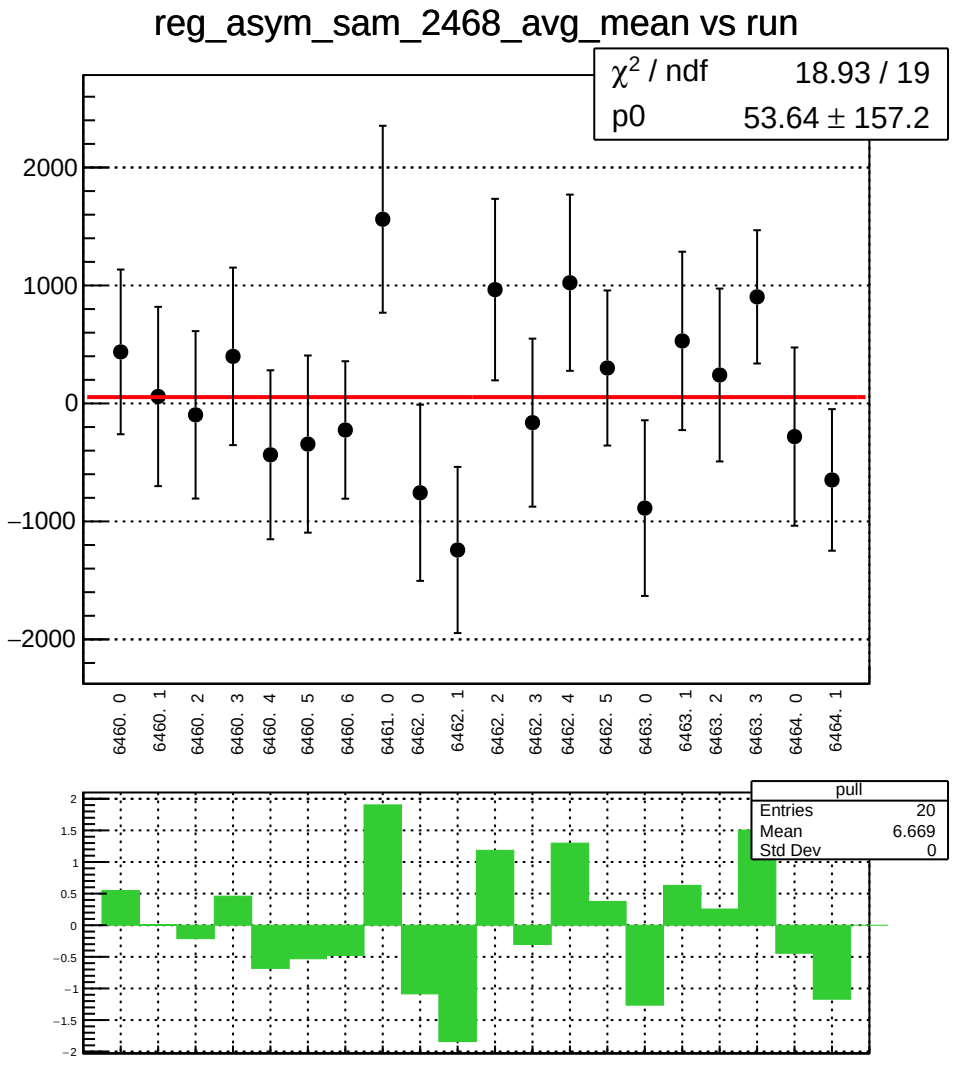

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 9.484 / 19
p0 0.01938 ± 0.04166
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −6.586
Std Dev 0
1
0.5
0
−0.5
−1

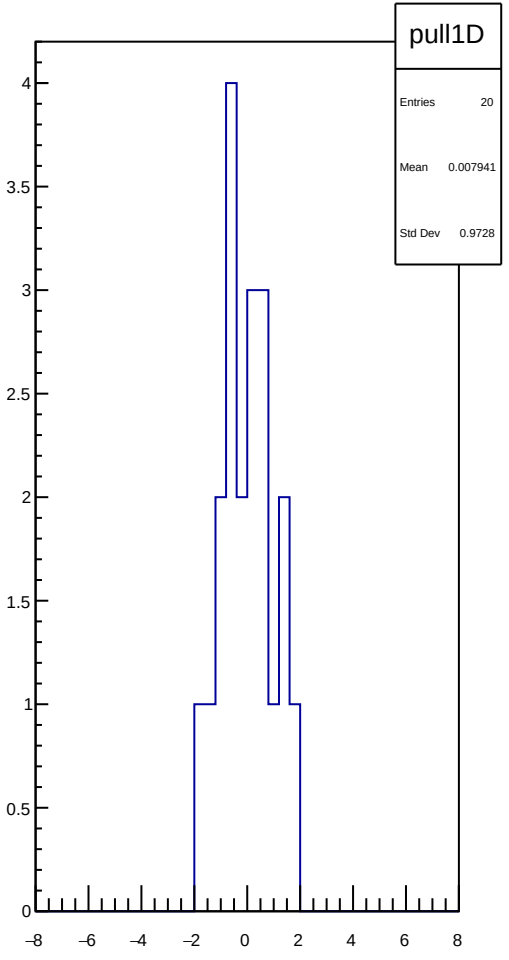

pull1D
Entries 20
Mean 0.01447
Std Dev 0.6885
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

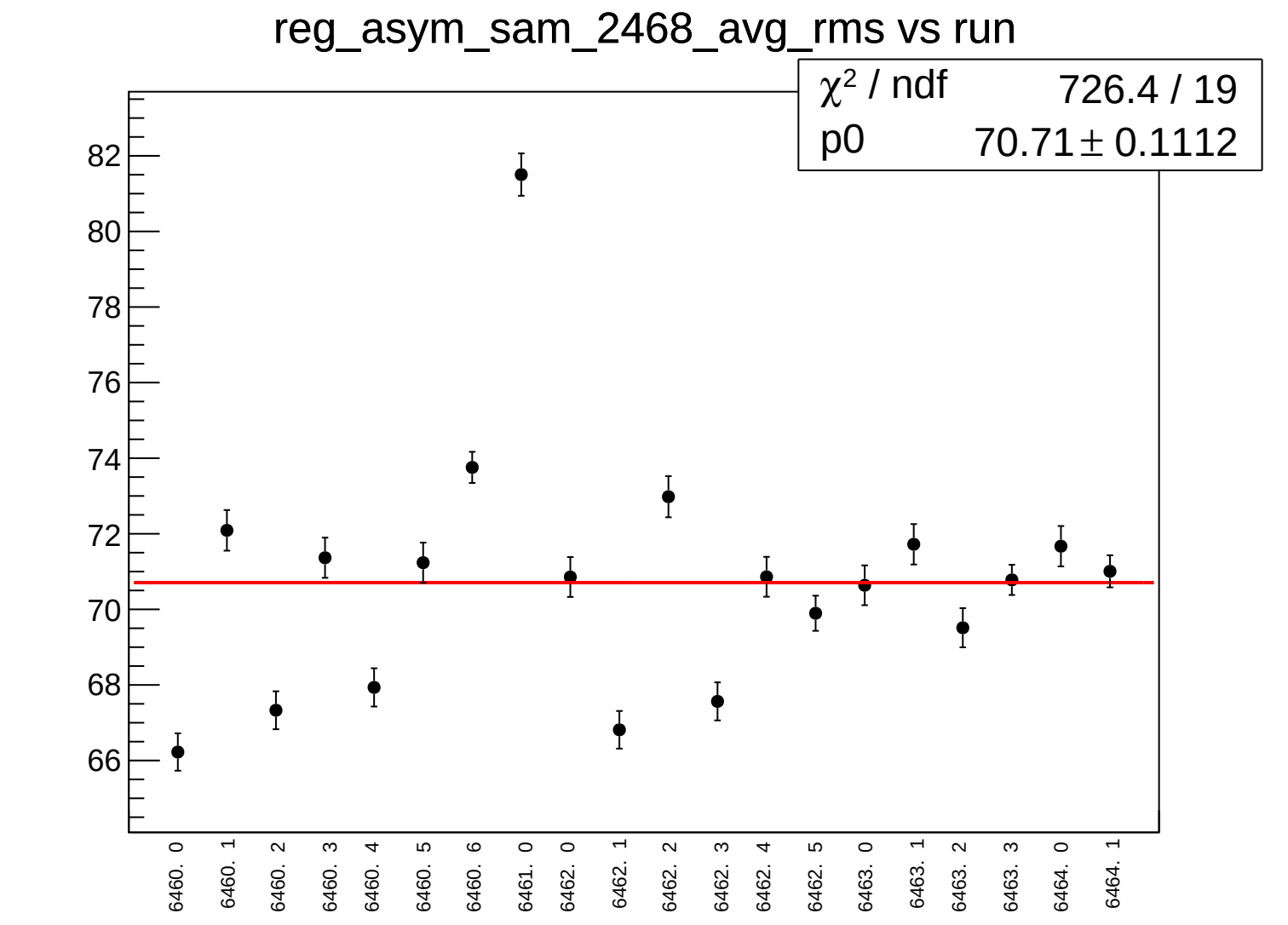

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.43e+04 / 19
p0 18.42 ± 0.02946
28
26
24
22
20
18
16
14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

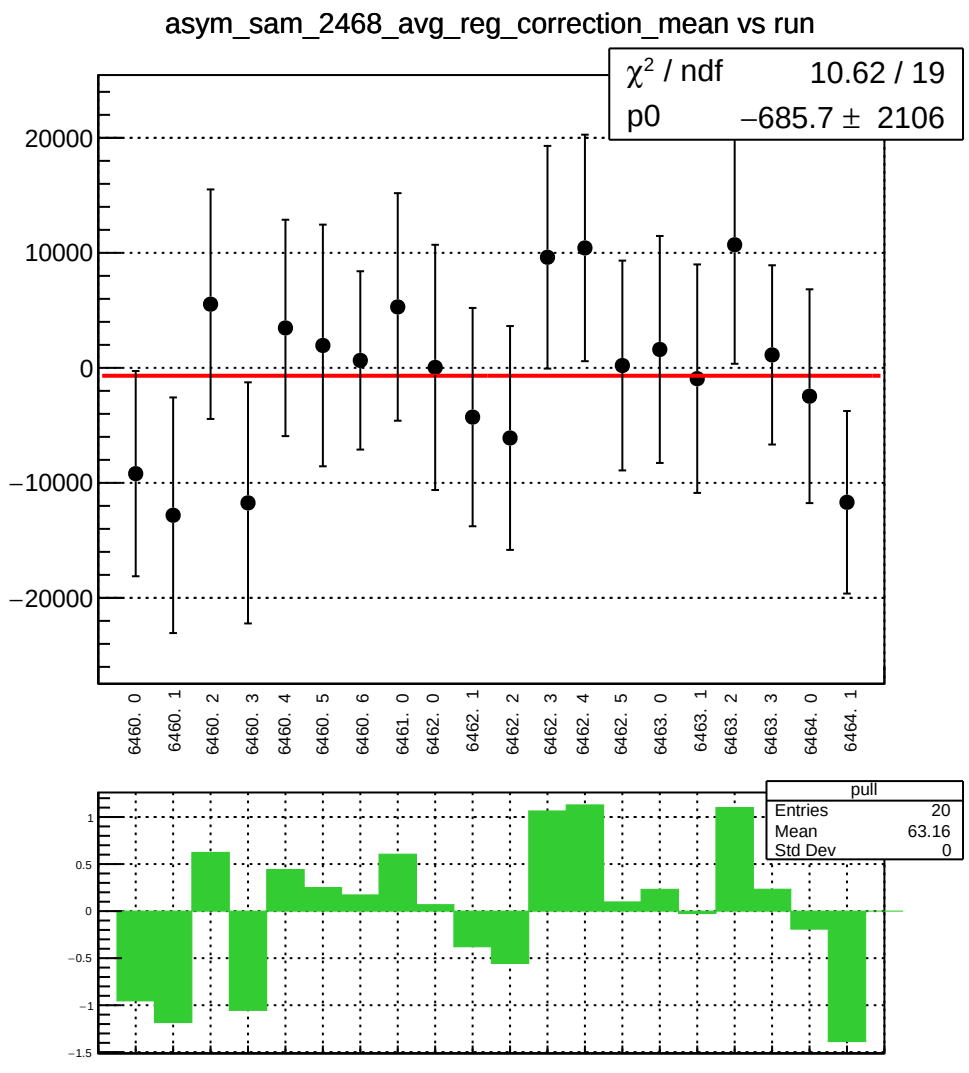

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 26.79 / 19
p0 −1.639e−14 ± 1.667e−14
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.09797
Std Dev 1.153
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

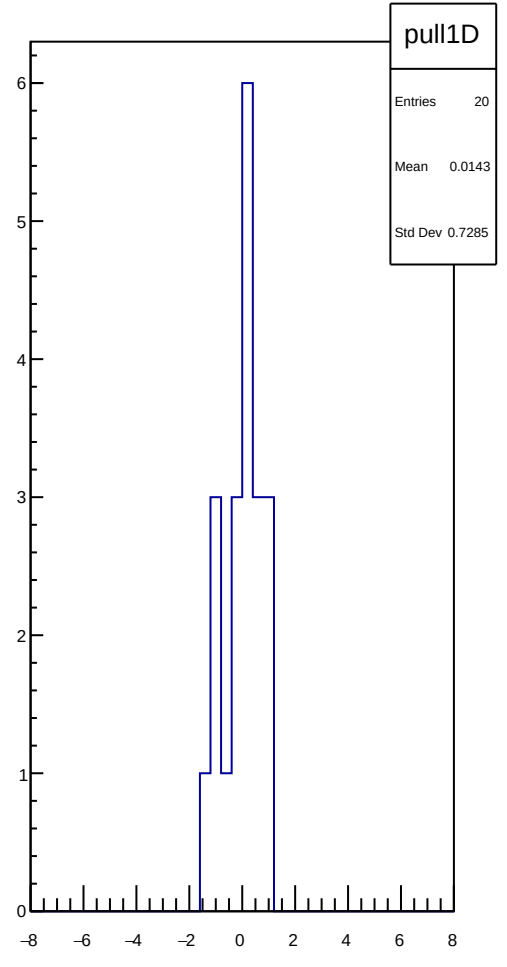

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.348e+05 / 19
p0 6.13e−12 ± 1.179e−14
40
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

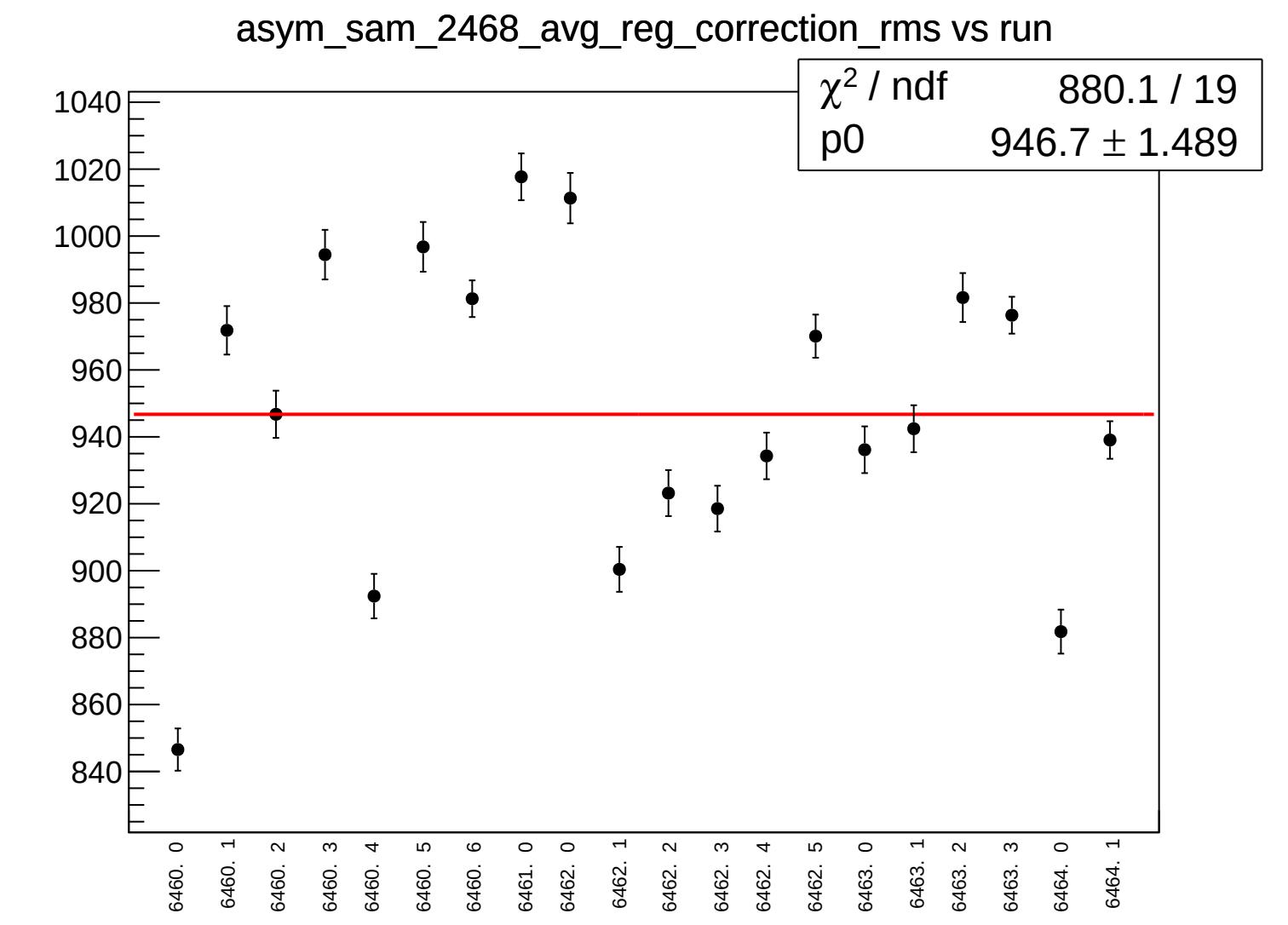

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 18.93 / 19
p0 53.64 ± 157.2
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.669
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

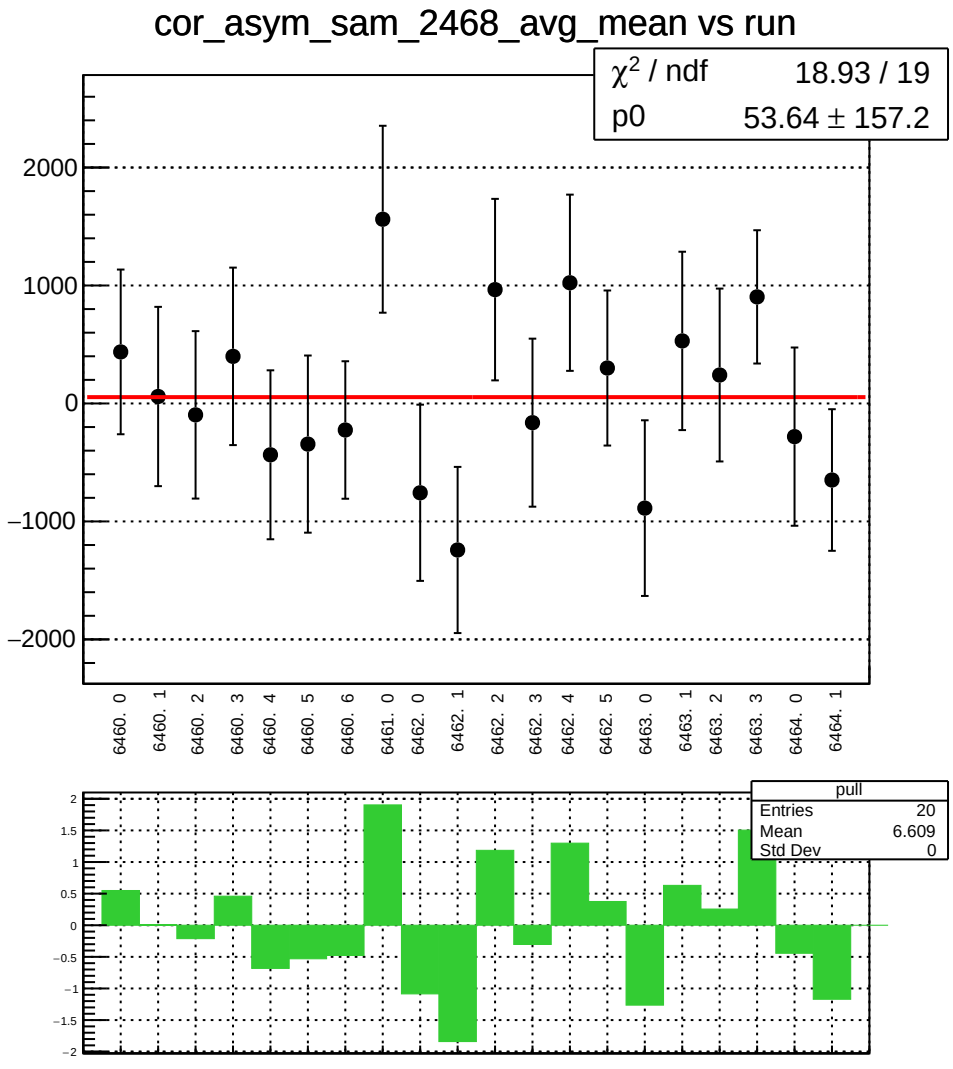

pull1D
Entries 20
Mean 0.007941
Std Dev 0.9728
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

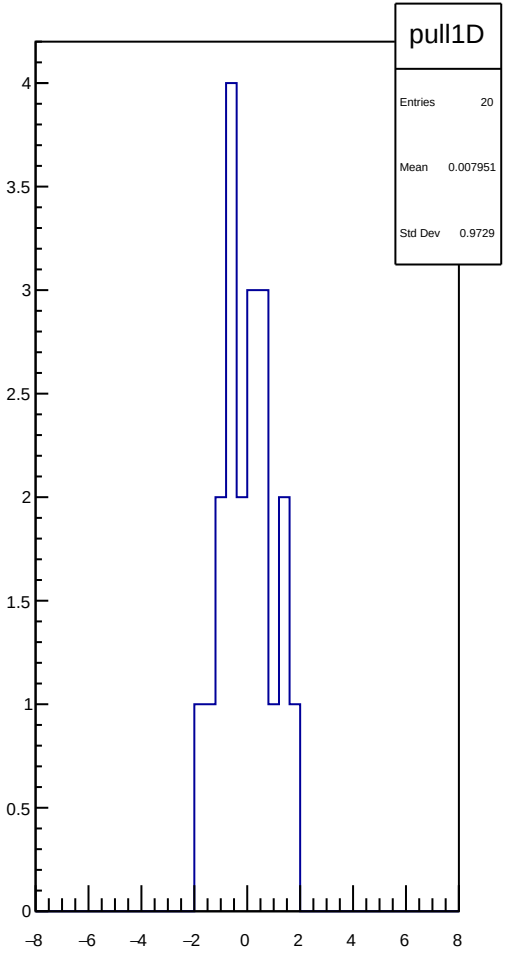

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 726.4 / 19
p0 70.71 ± 0.1112
82
80
78
76
74
72
70
68
66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

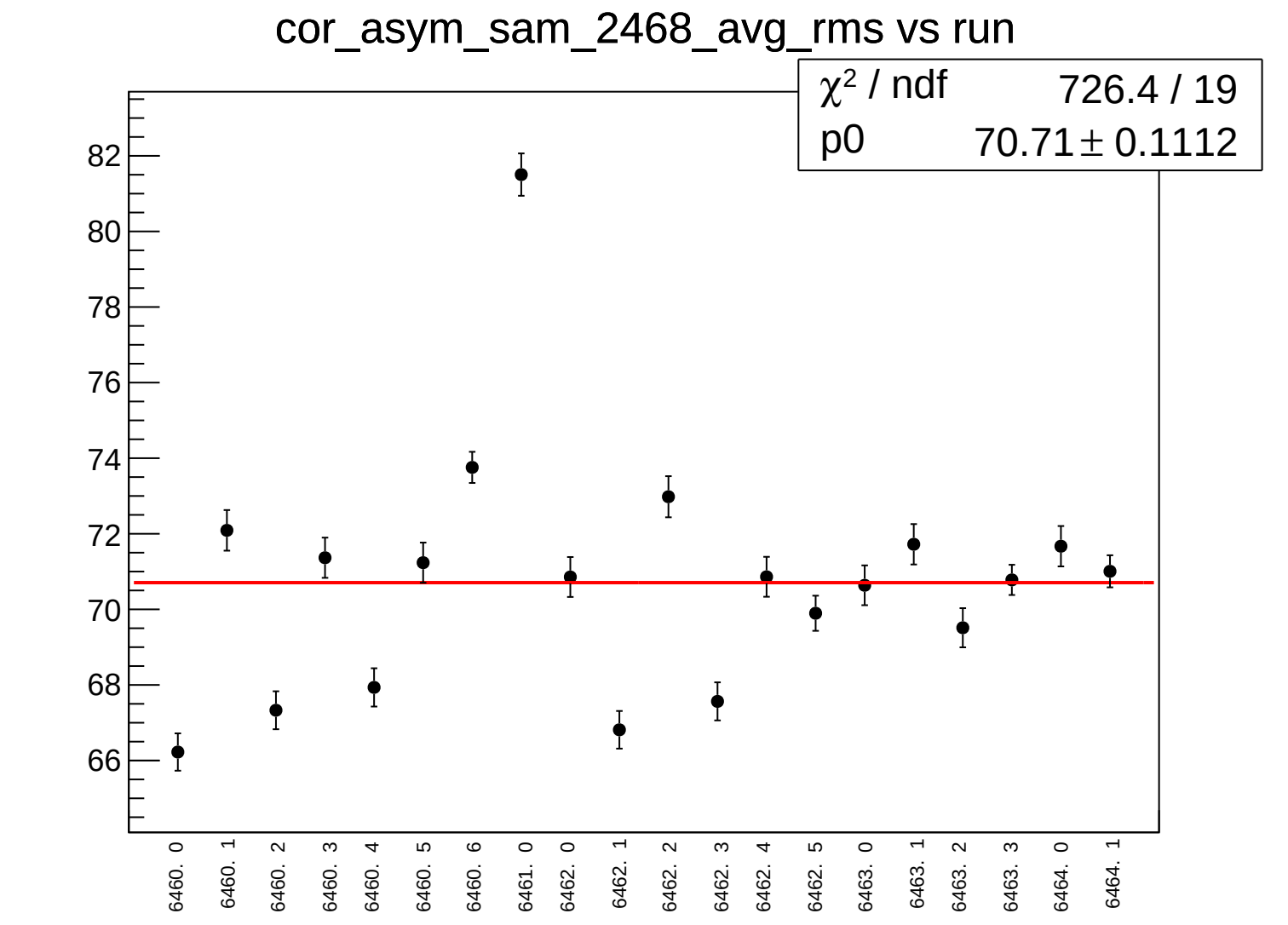

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 10.62 / 19
p0 −685.7 ± 2106
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 63.16
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

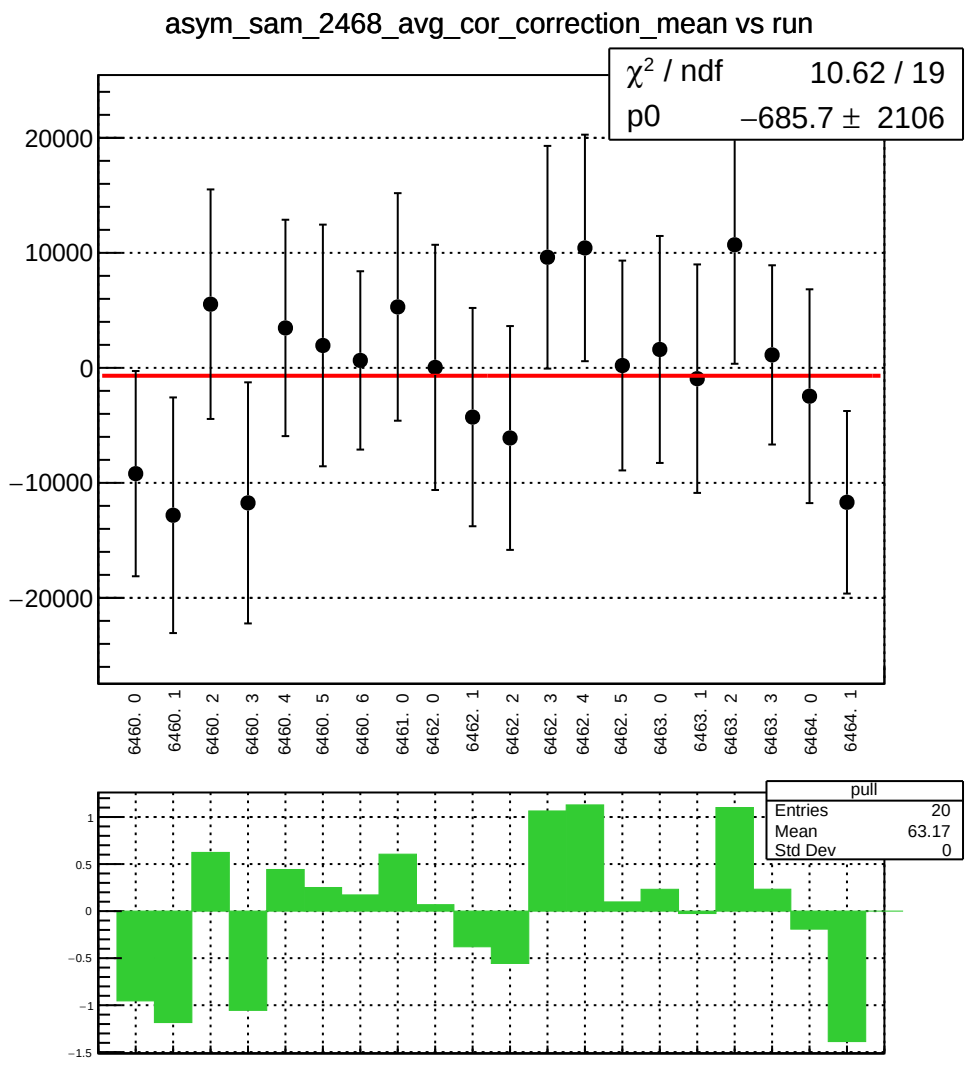

pull1D
Entries 20
Mean 0.0143
Std Dev 0.7285
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

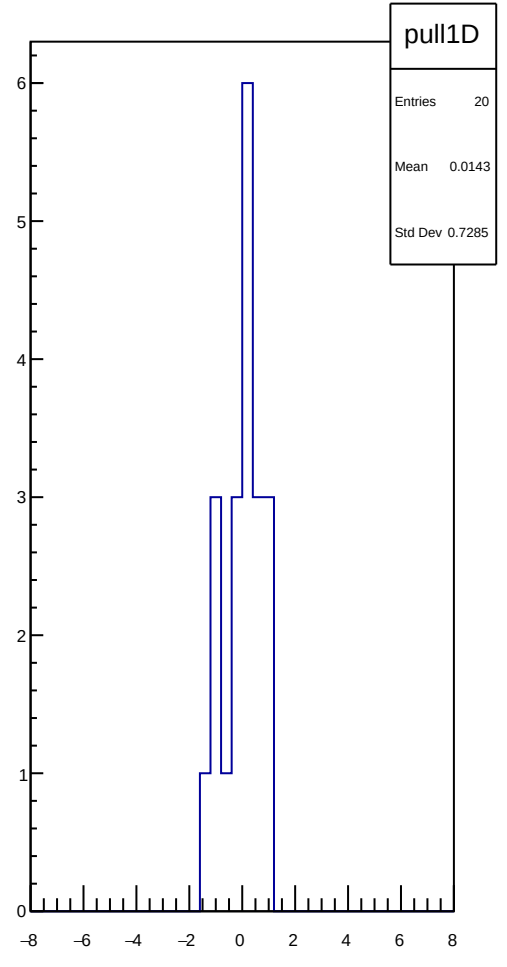

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 880.1 / 19
p0 946.7 ± 1.489
1040
1020
1000
980
960
940
920
900
880
860
840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

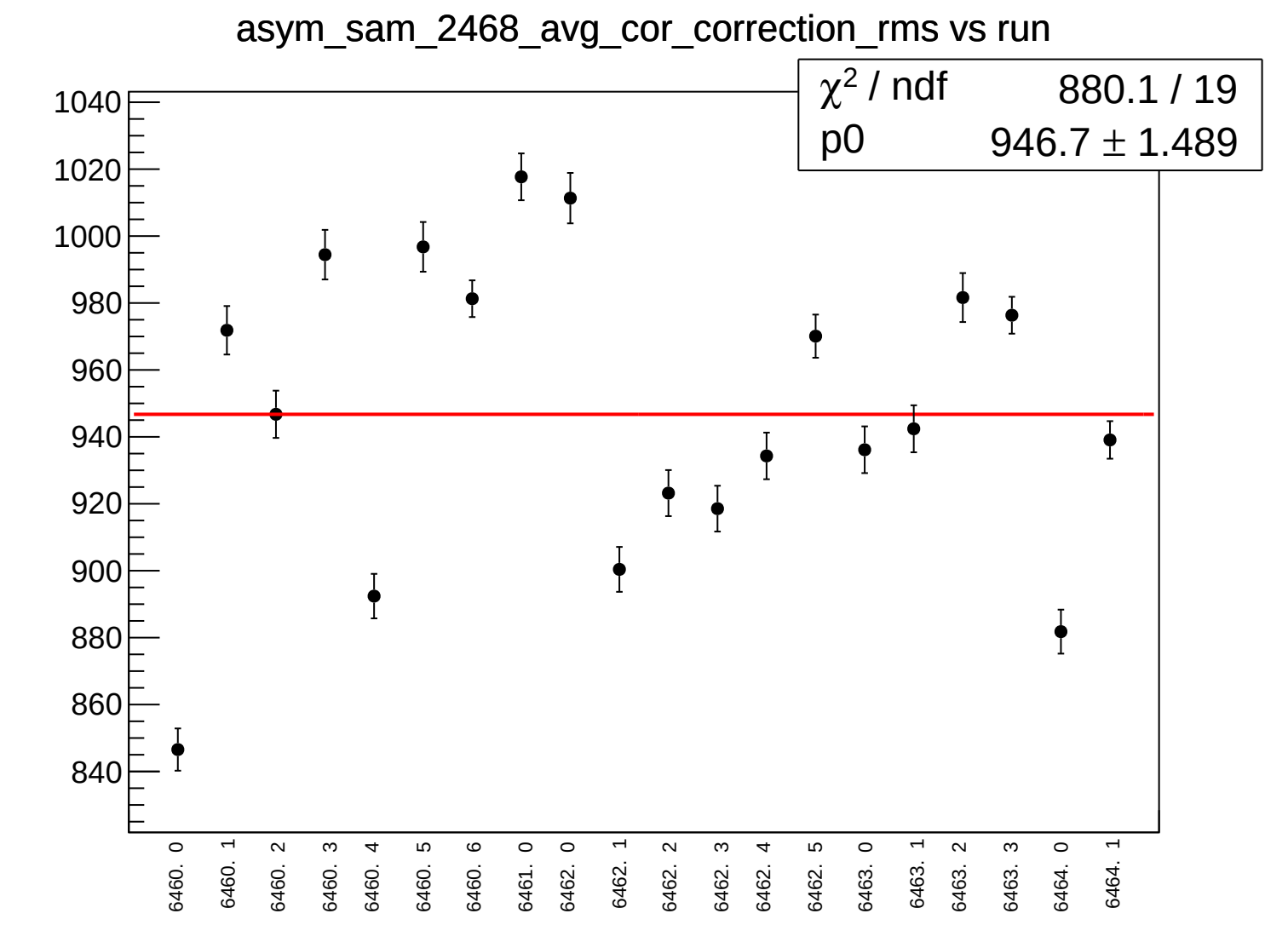

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 18.93 / 19
p0 53.64 ± 157.2
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.609
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

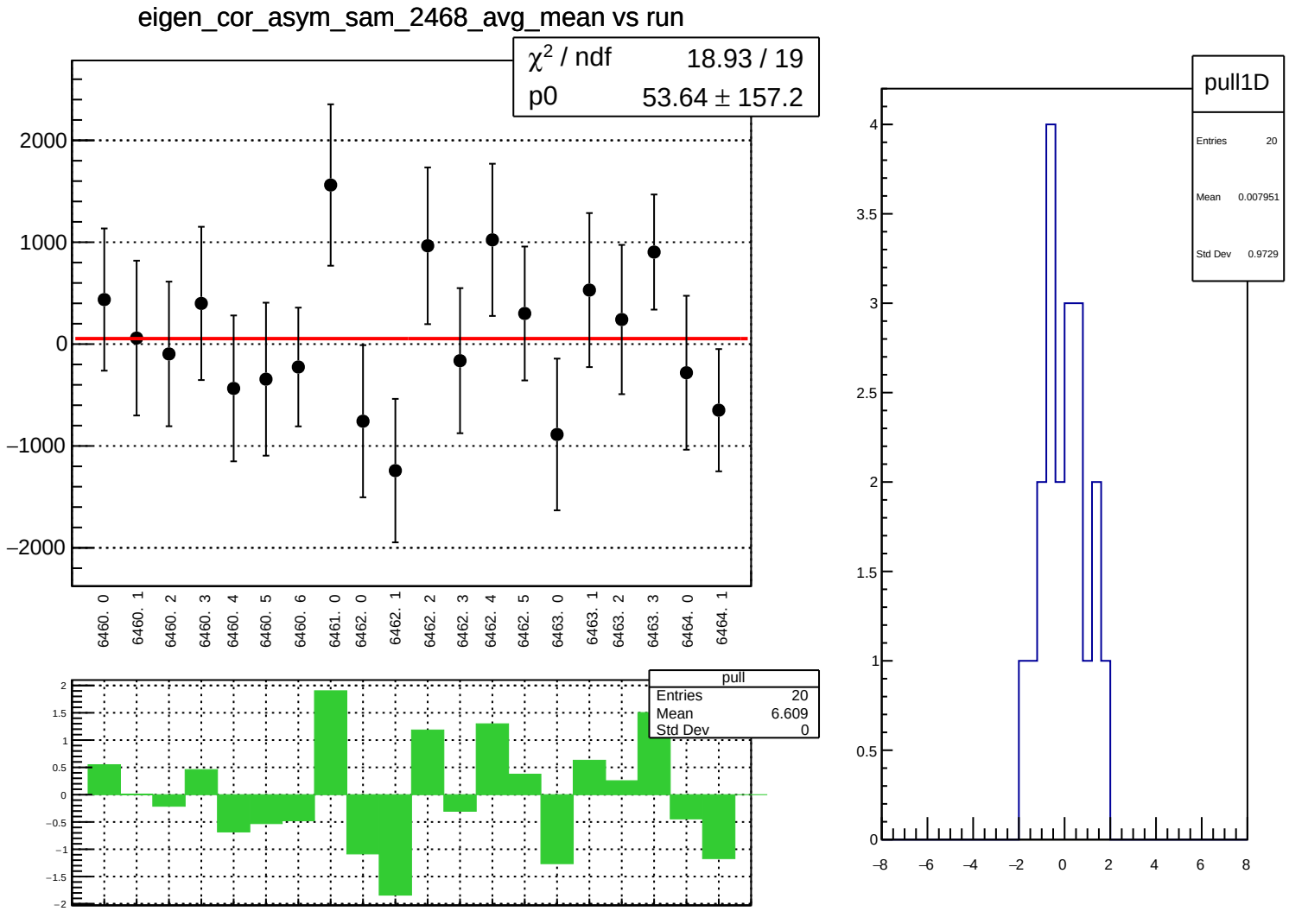

pull1D
Entries 20
Mean 0.007951
Std Dev 0.9729
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

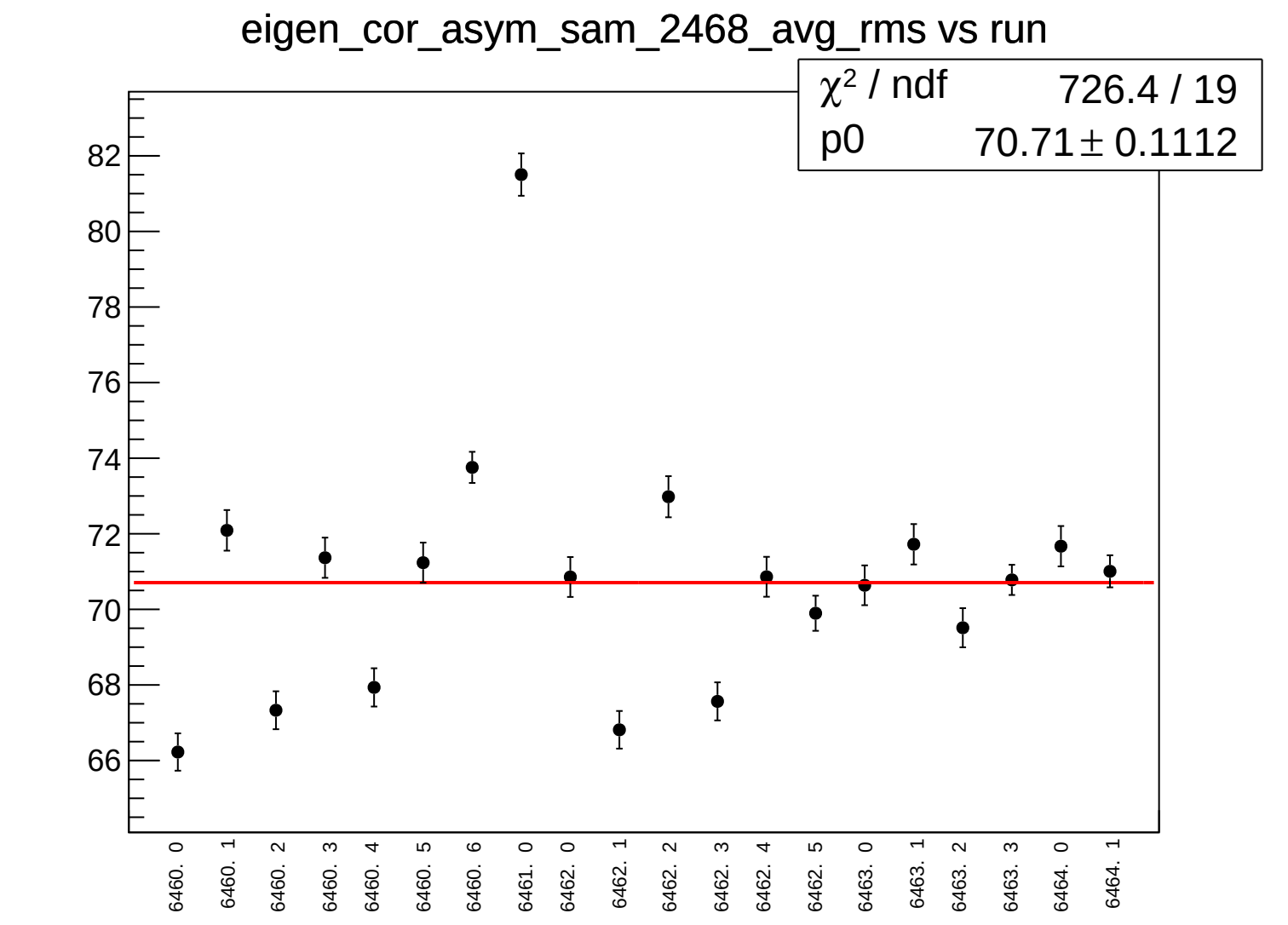

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 726.4 / 19
p0 70.71 ± 0.1112
82
80
78
76
74
72
70
68
66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

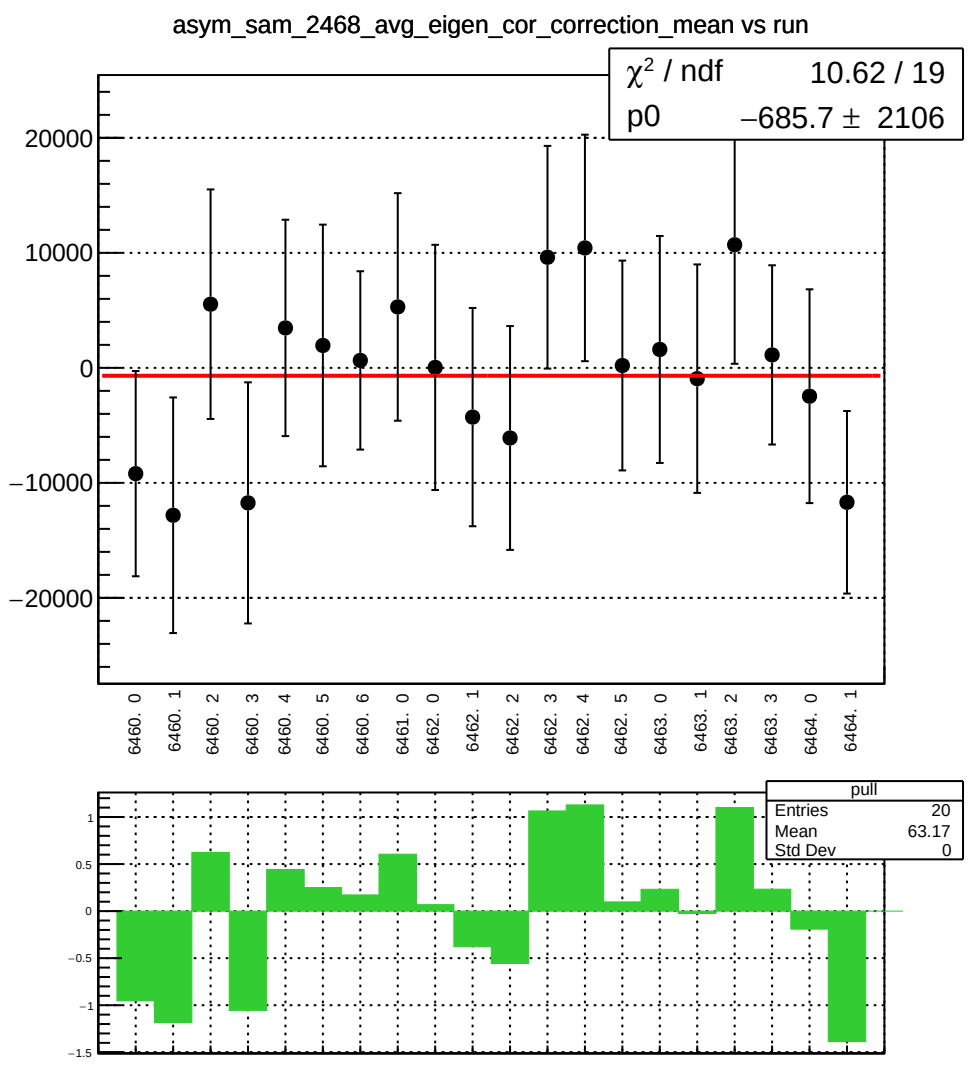

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 10.62 / 19
p0 −685.7 ± 2106
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 63.17
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

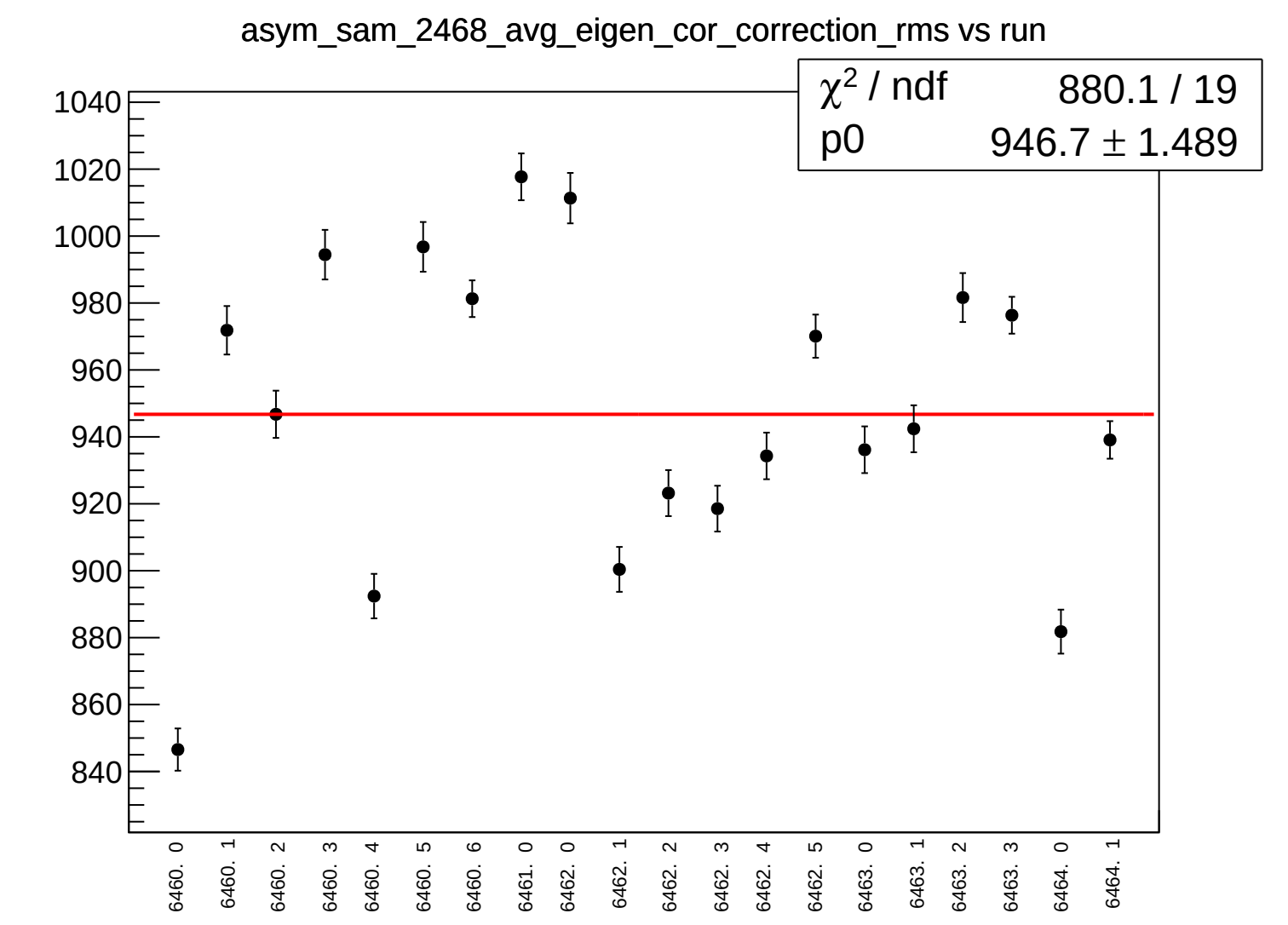

pull1D
Entries 20
Mean 0.0143
Std Dev 0.7285
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

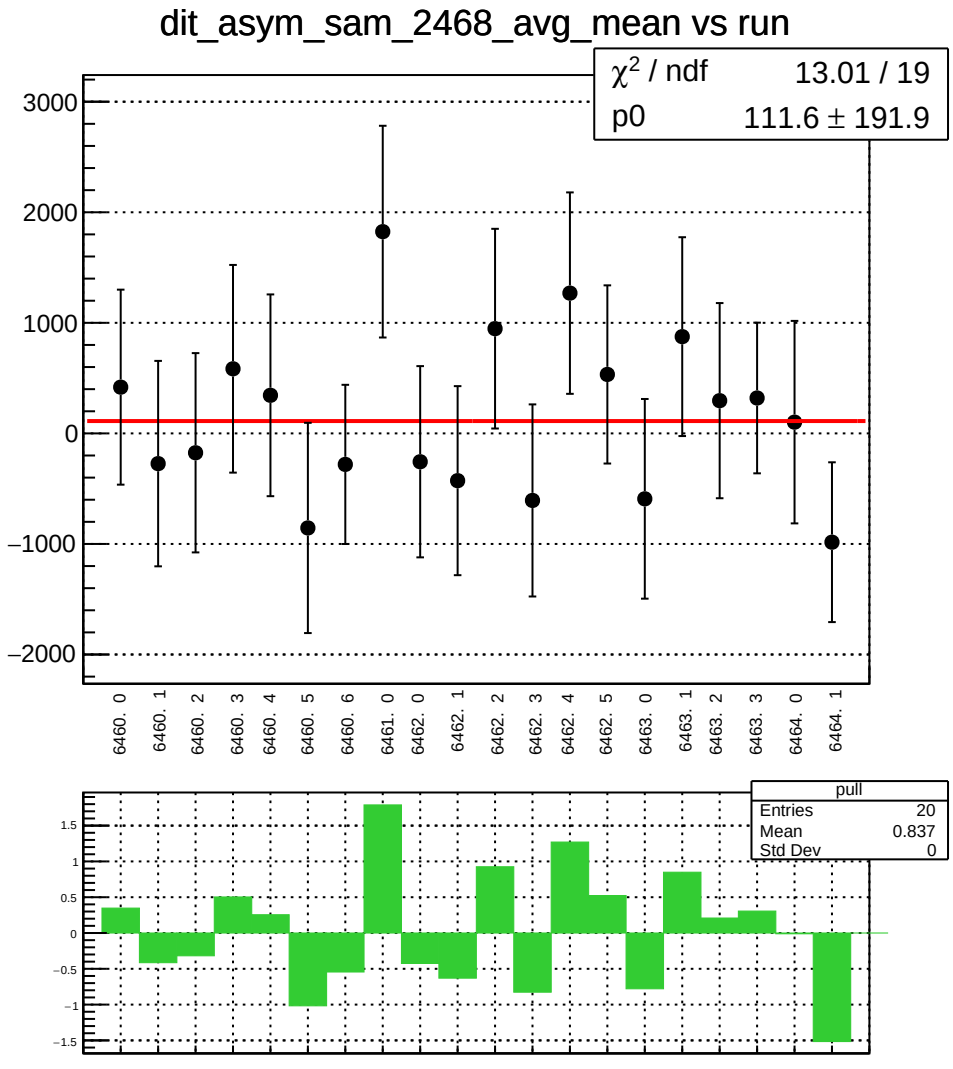

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 880.1 / 19
p0 946.7 ± 1.489
1040
1020
1000
980
960
940
920
900
880
860
840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

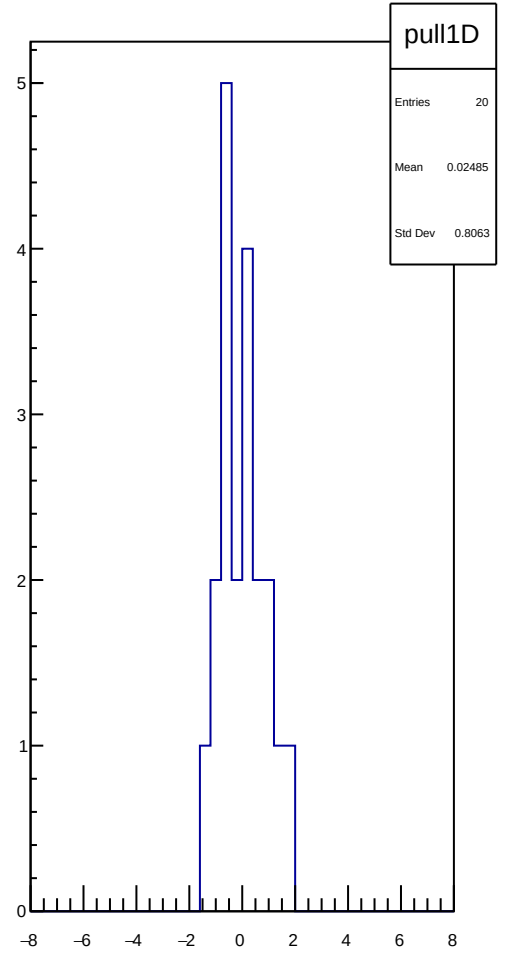

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 18.93 / 19
p0 53.64 ± 157.2
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.609
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.007951
Std Dev 0.9729
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

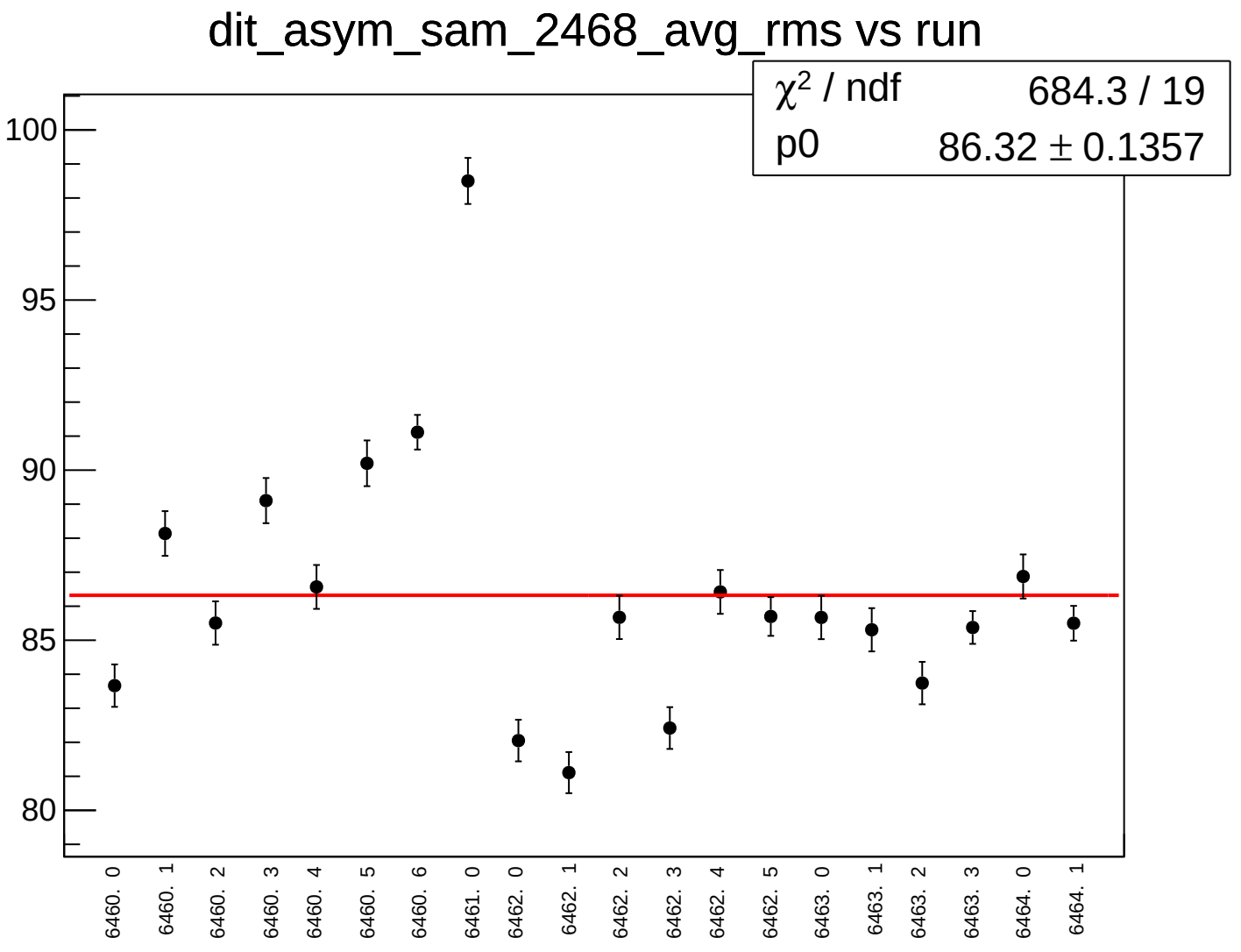

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 726.4 / 19
p0 70.71 ± 0.1112
82
80
78
76
74
72
70
68
66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

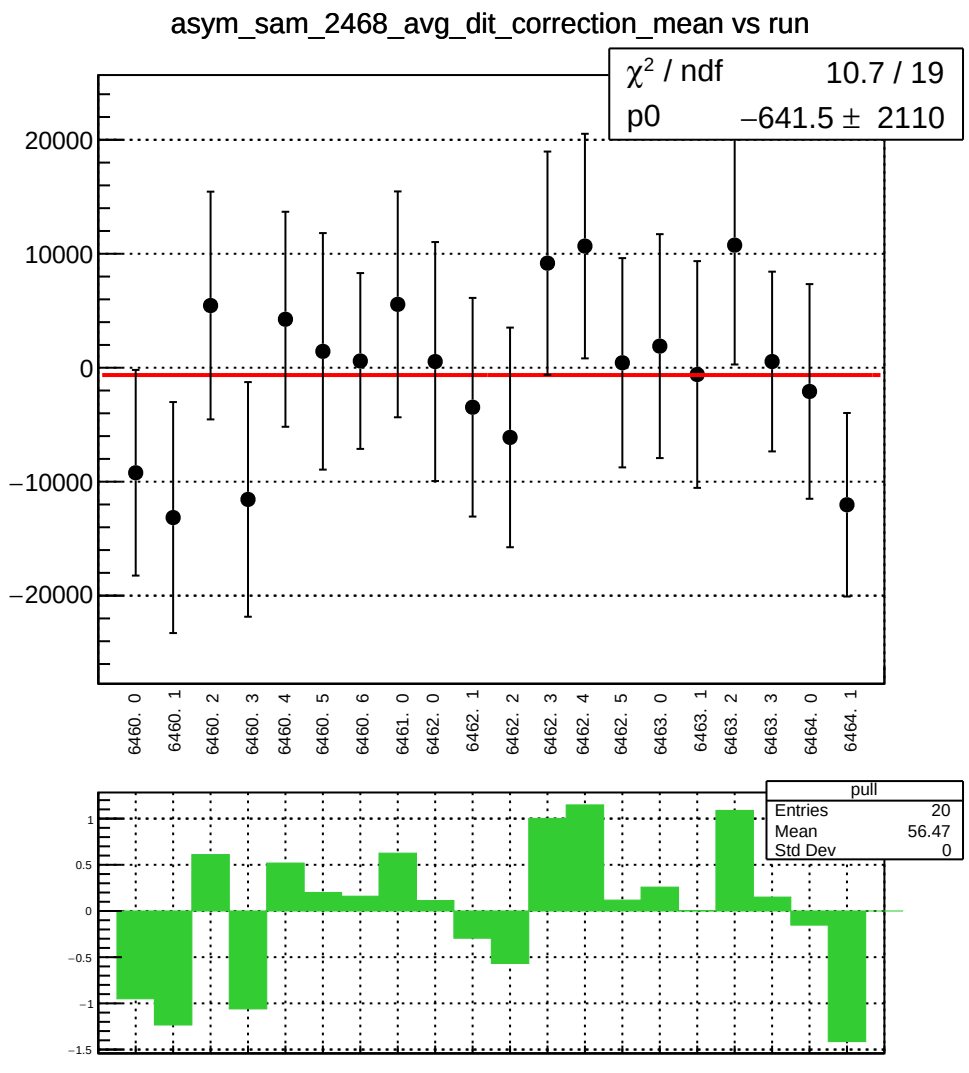

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.62 / 19
p0 −685.7 ± 2106
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 63.17
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0143
Std Dev 0.7285
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

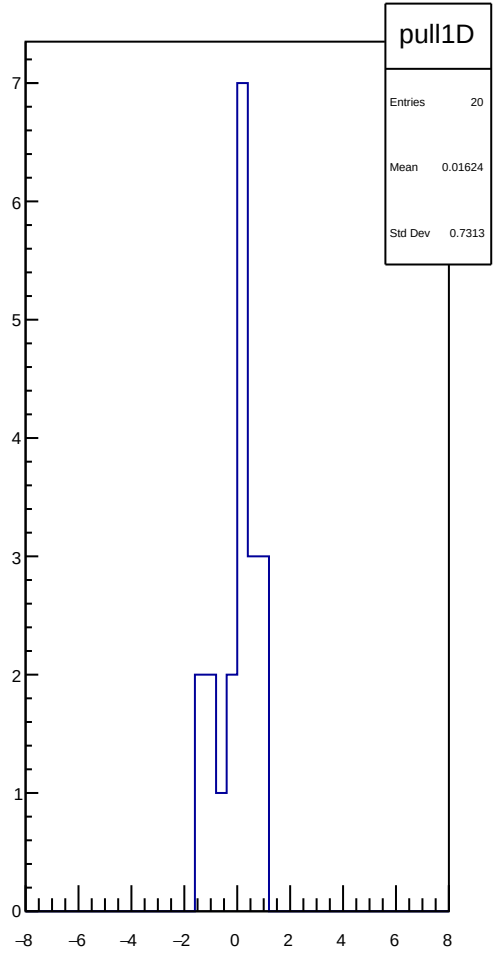

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 880.1 / 19
p0 946.7 ± 1.489
1040
1020
1000
980
960
940
920
900
880
860
840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

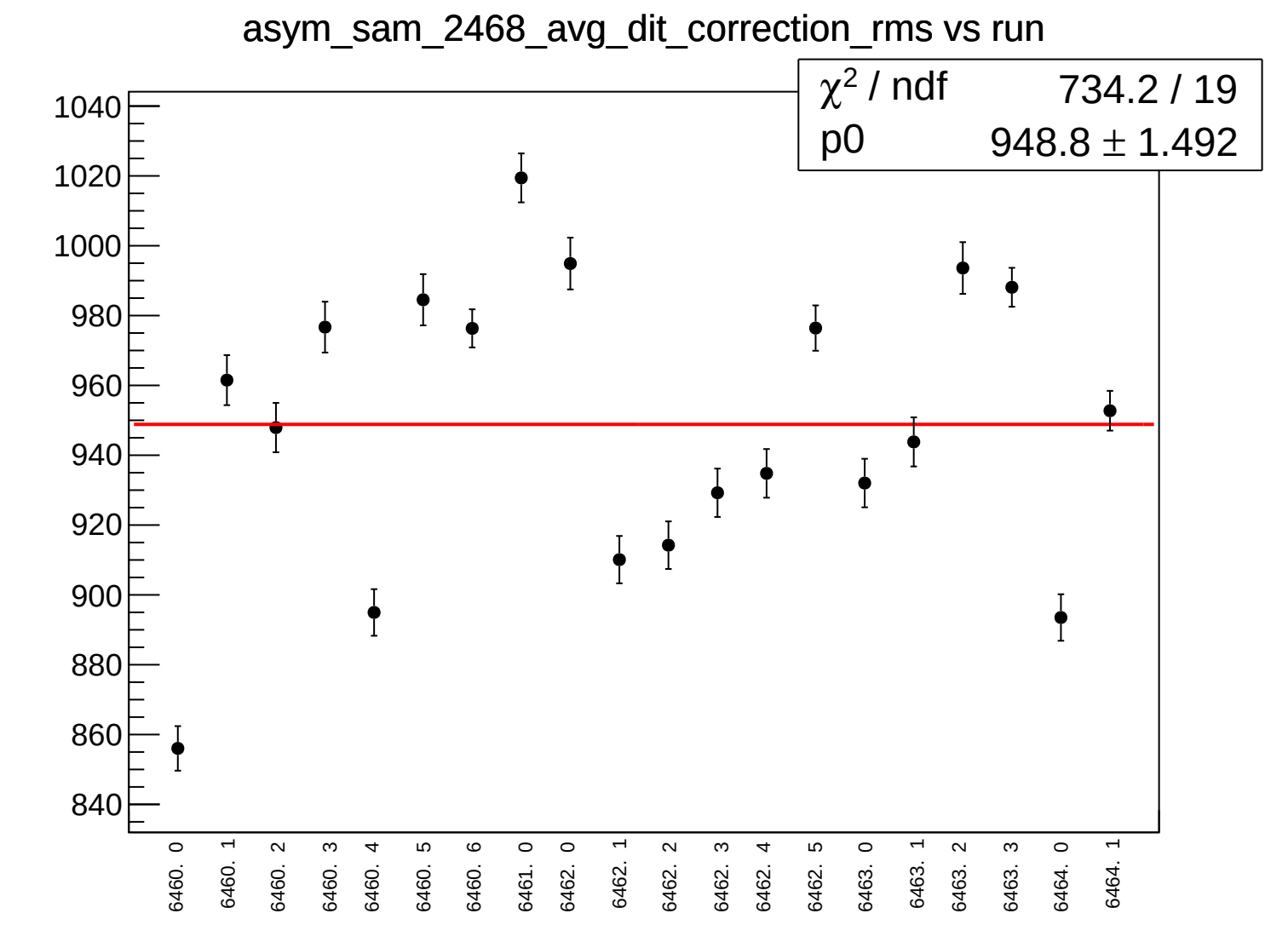

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 13.01 / 19
p0 111.6 ± 191.9
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 0.837
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

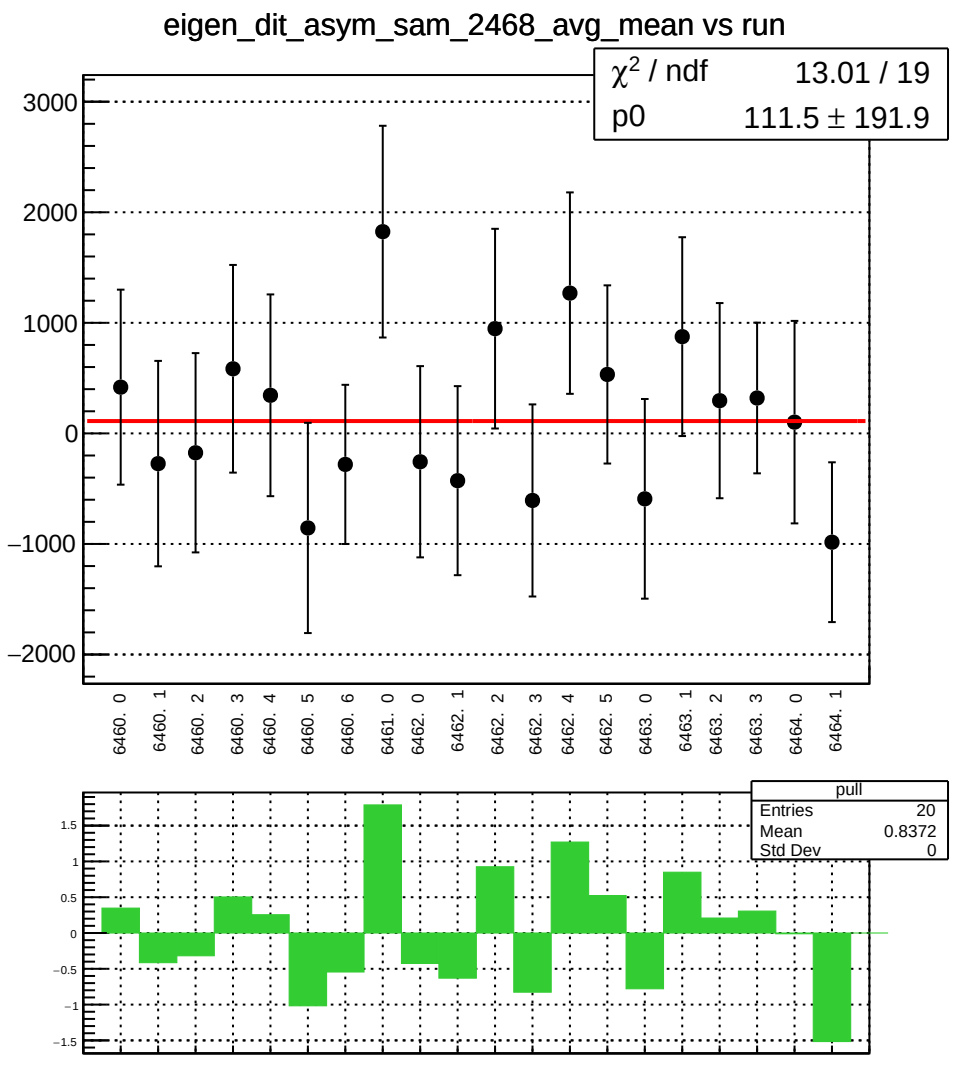

pull1D
Entries 20
Mean 0.02485
Std Dev 0.8063
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

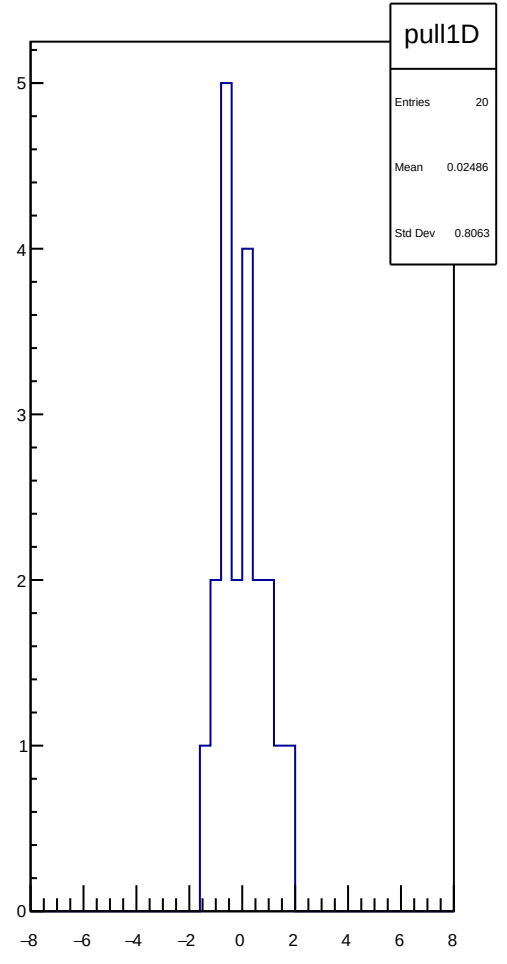

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 684.3 / 19
p0 86.32 ± 0.1357
100
95
90
85
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

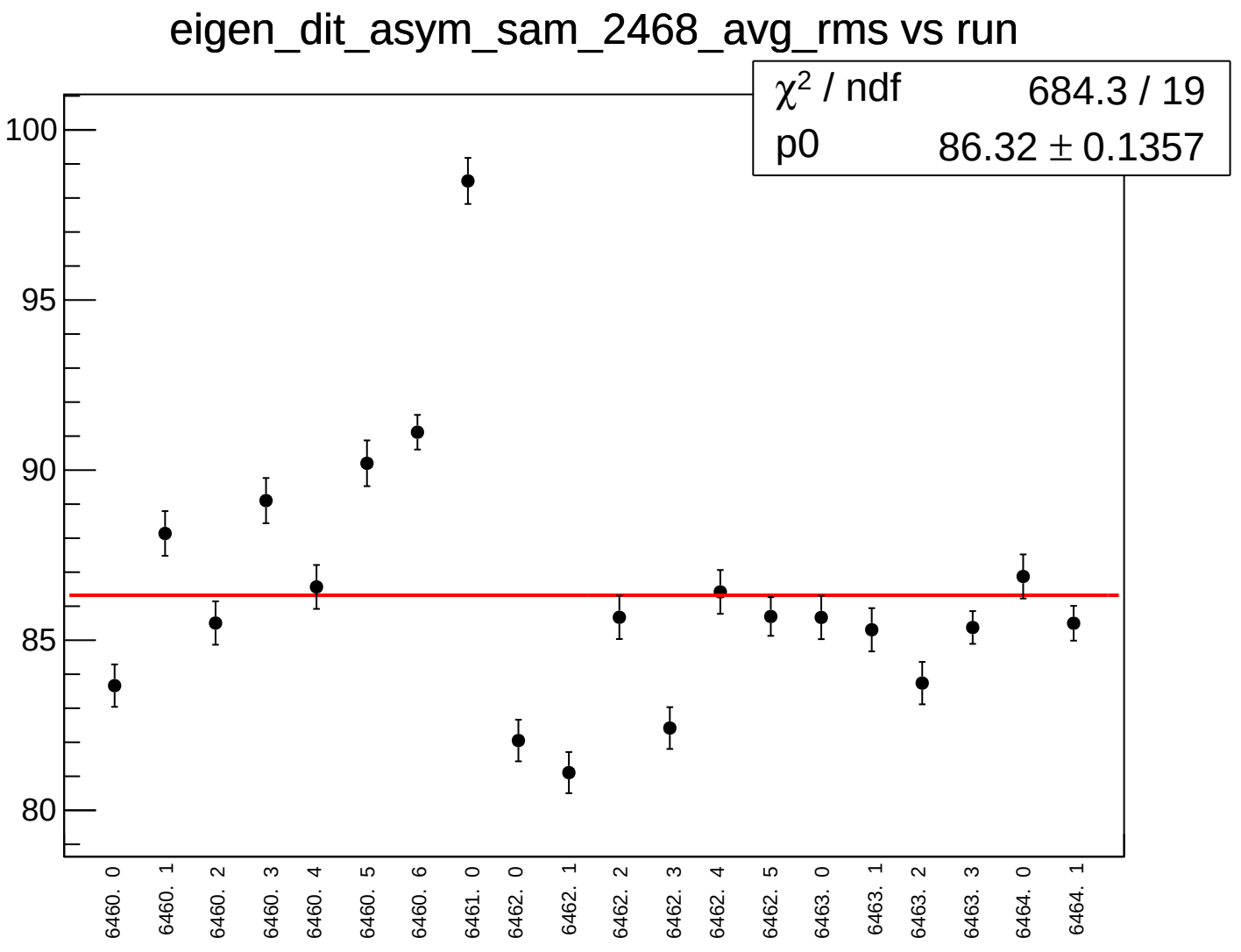

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 10.7 / 19
p0 −641.5 ± 2110
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.47
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

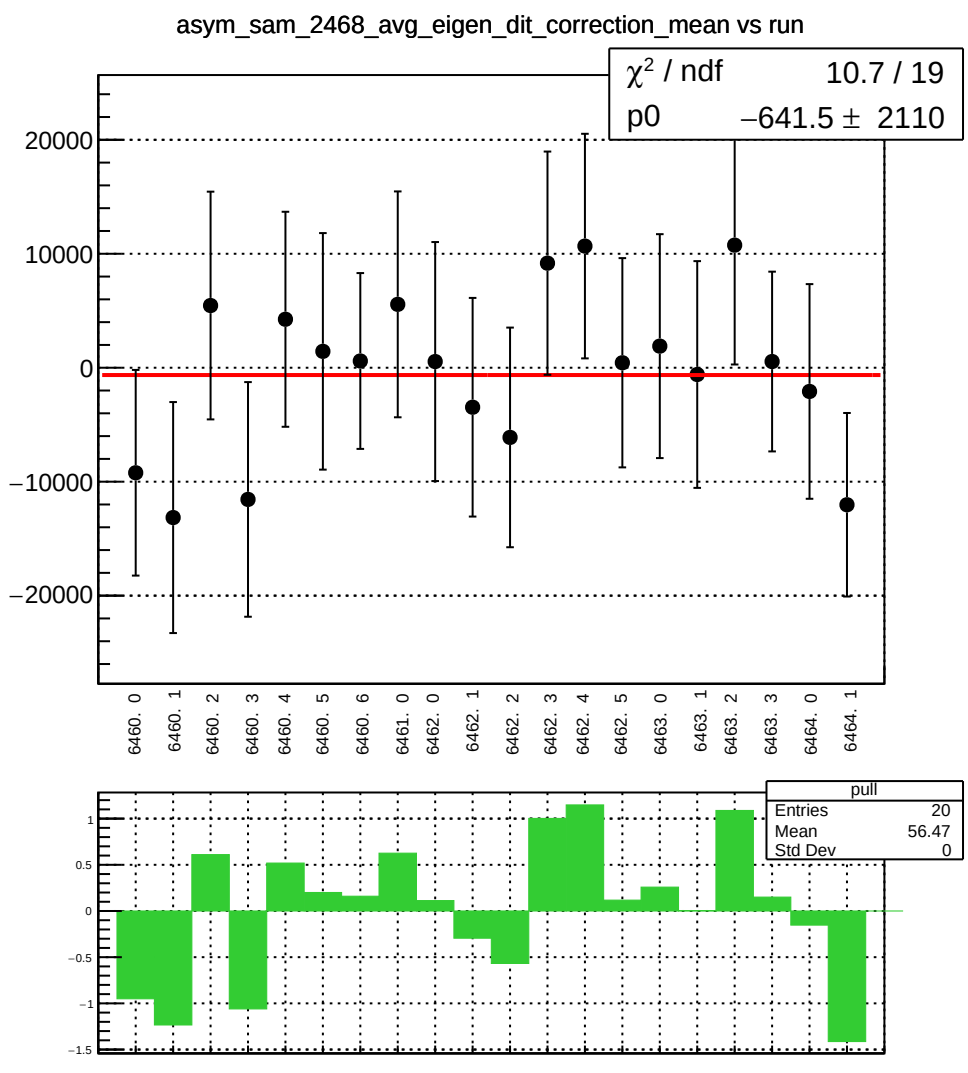

pull1D
Entries 20
Mean 0.01624
Std Dev 0.7313
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

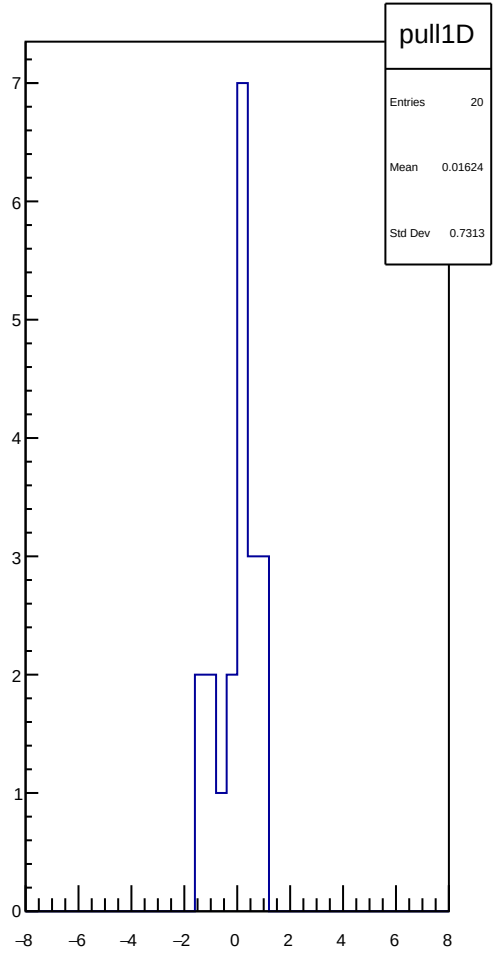

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 734.2 / 19
p0 948.8 ± 1.492
1040
1020
1000
980
960
940
920
900
880
860
840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

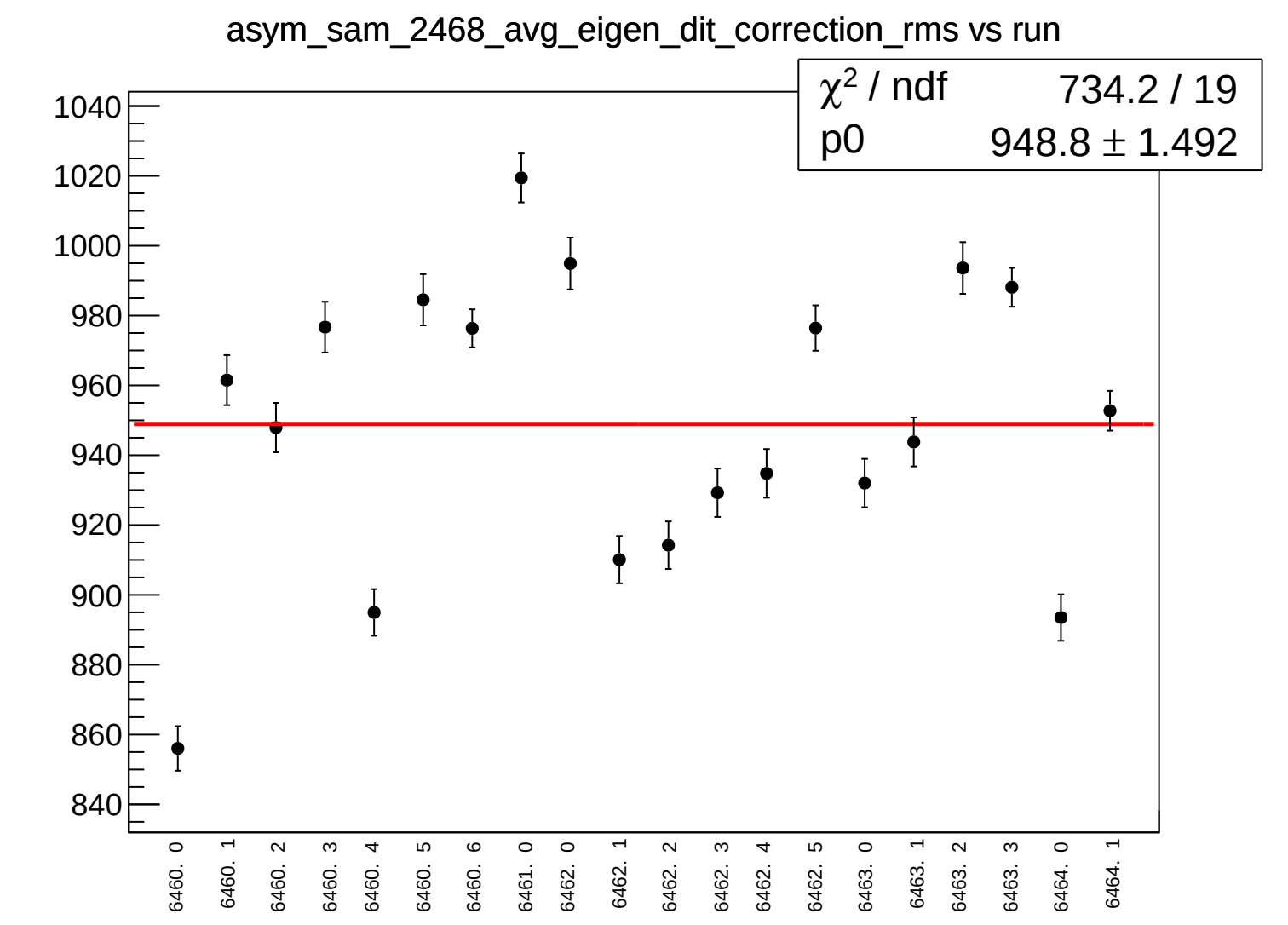

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 13.01 / 19
p0 111.5 ± 191.9
3000
2000
1000
0
−1000
−2000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 0.8372
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

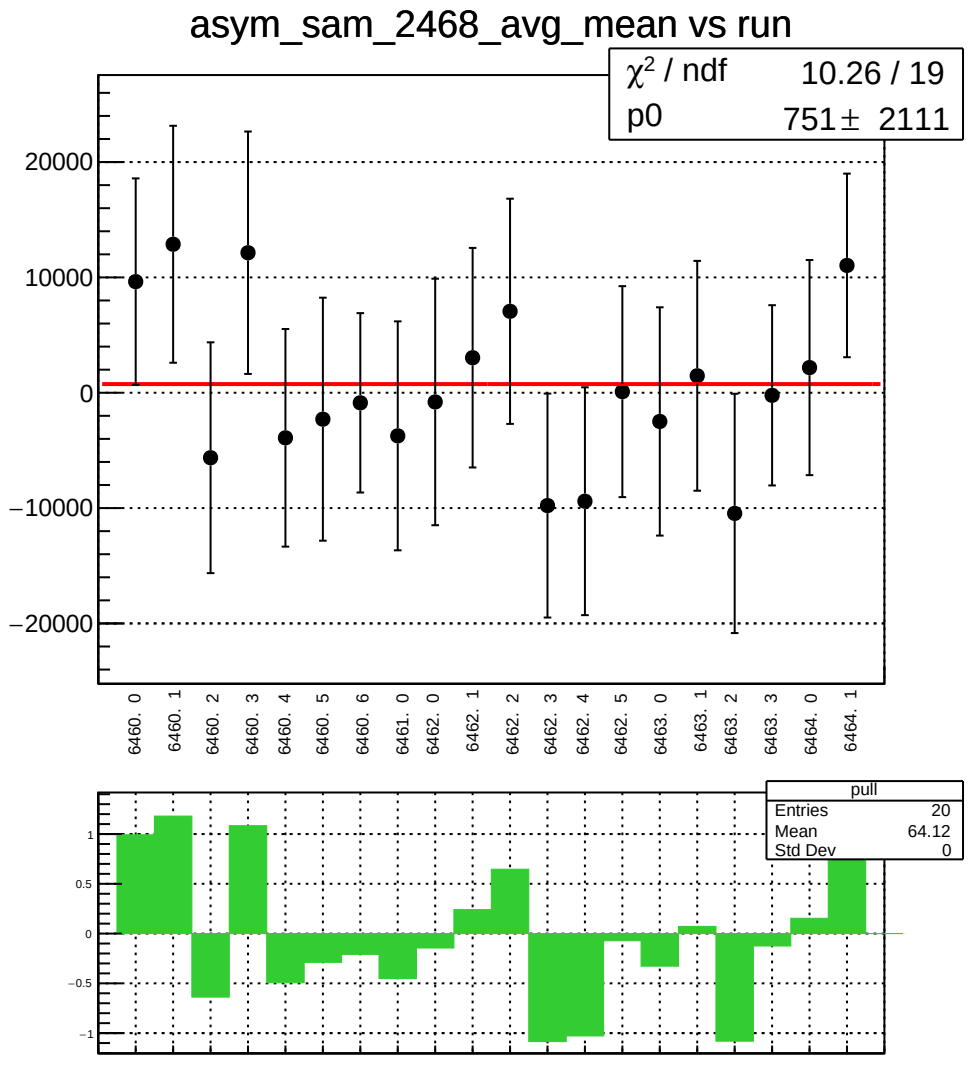

pull1D
Entries 20
Mean 0.02486
Std Dev 0.8063
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

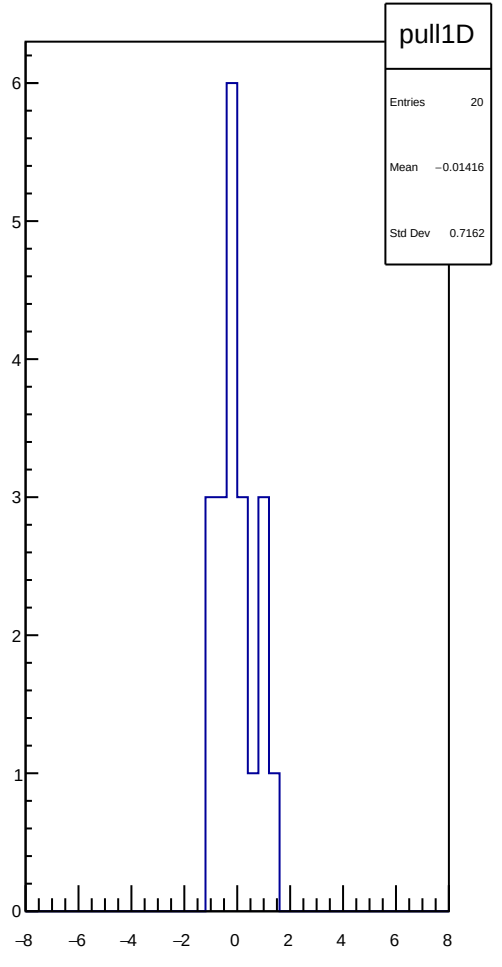

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 684.3 / 19
p0 86.32 ± 0.1357
100
95
90
85
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

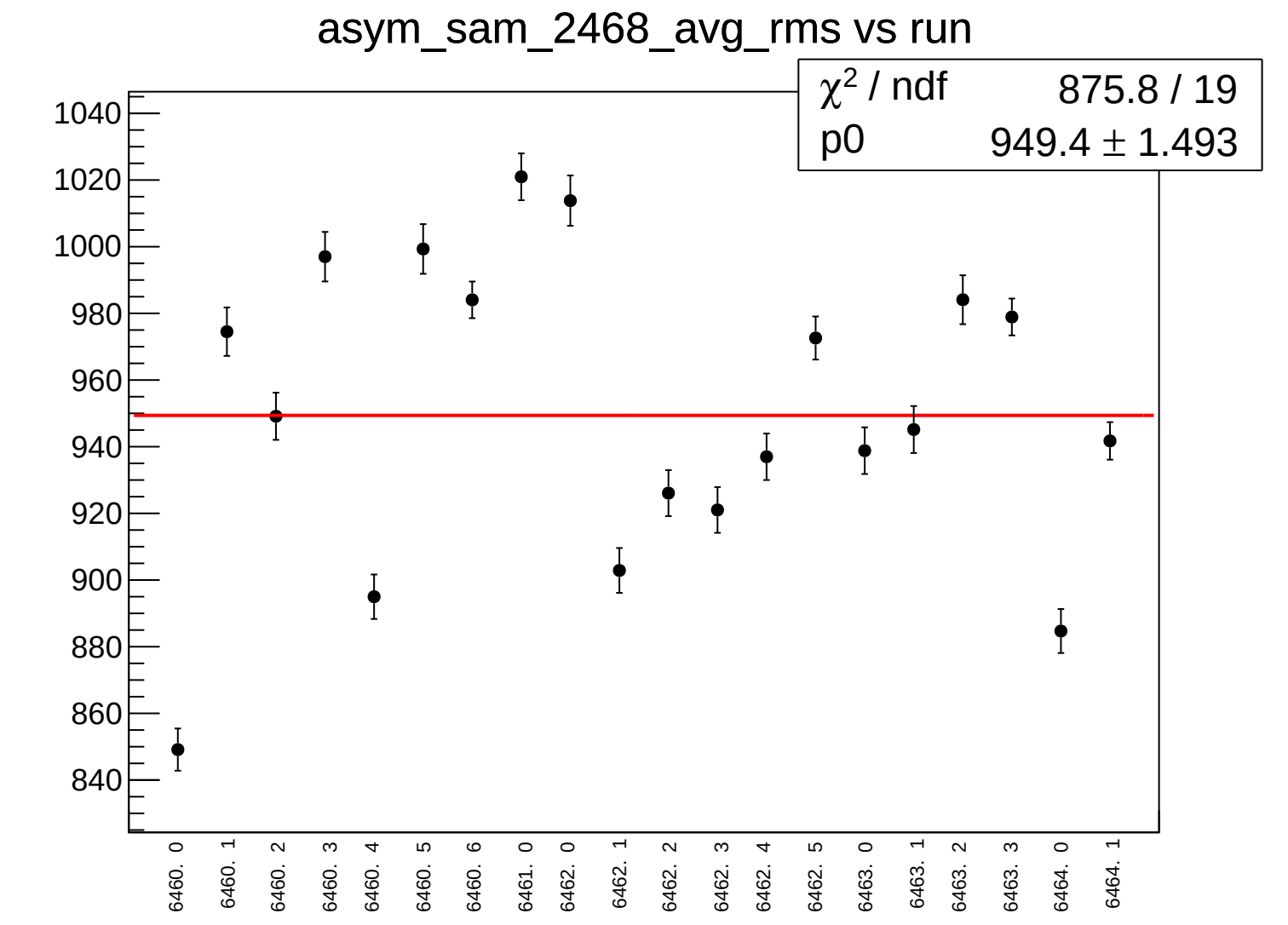

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.7 / 19
p0 −641.5 ± 2110
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.47
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

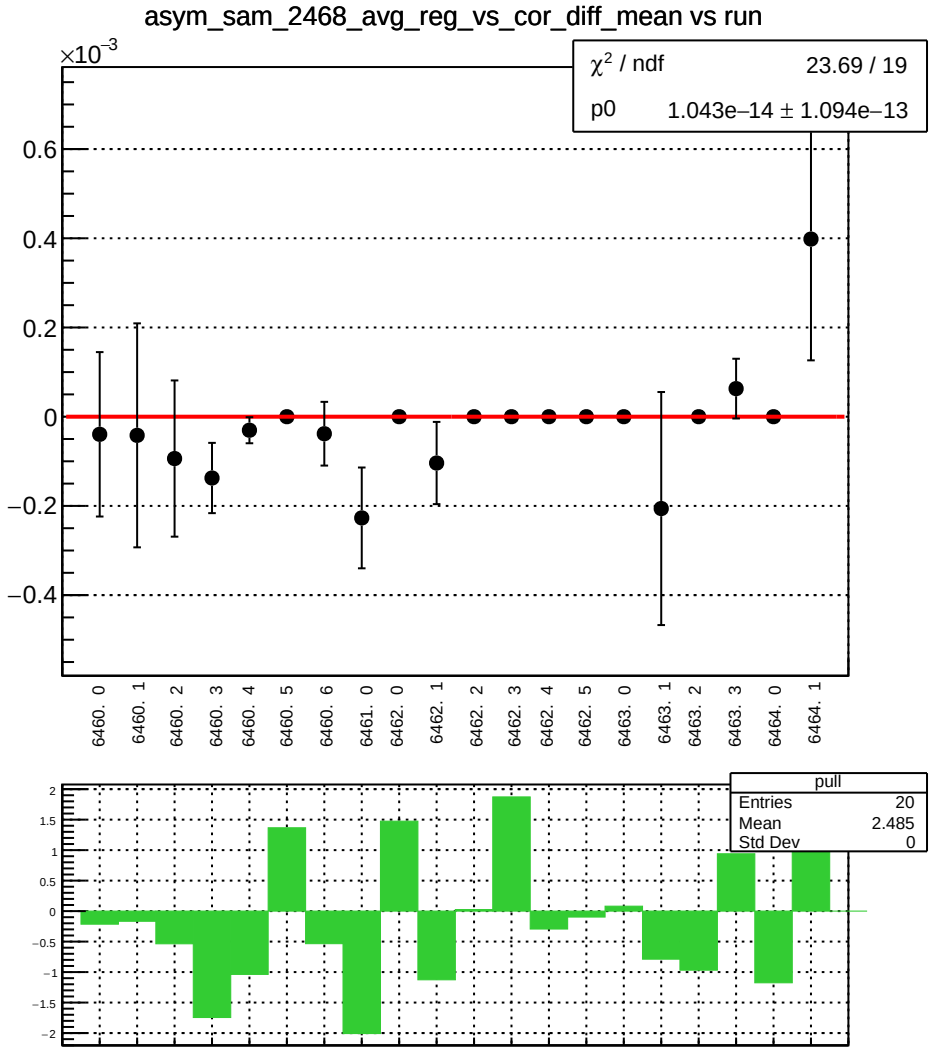

pull1D
Entries 20
Mean 0.01624
Std Dev 0.7313
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

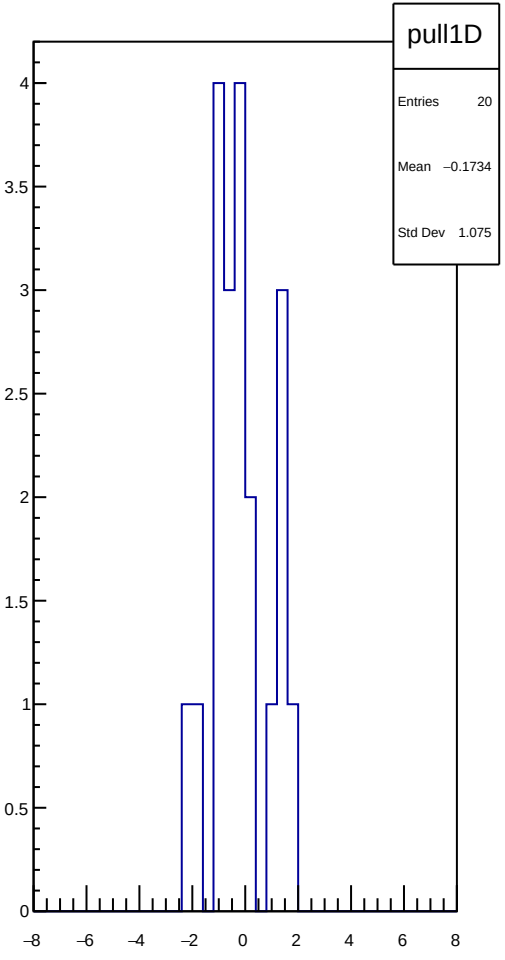

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 734.2 / 19
p0 948.8 ± 1.492
1040
1020
1000
980
960
940
920
900
880
860
840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

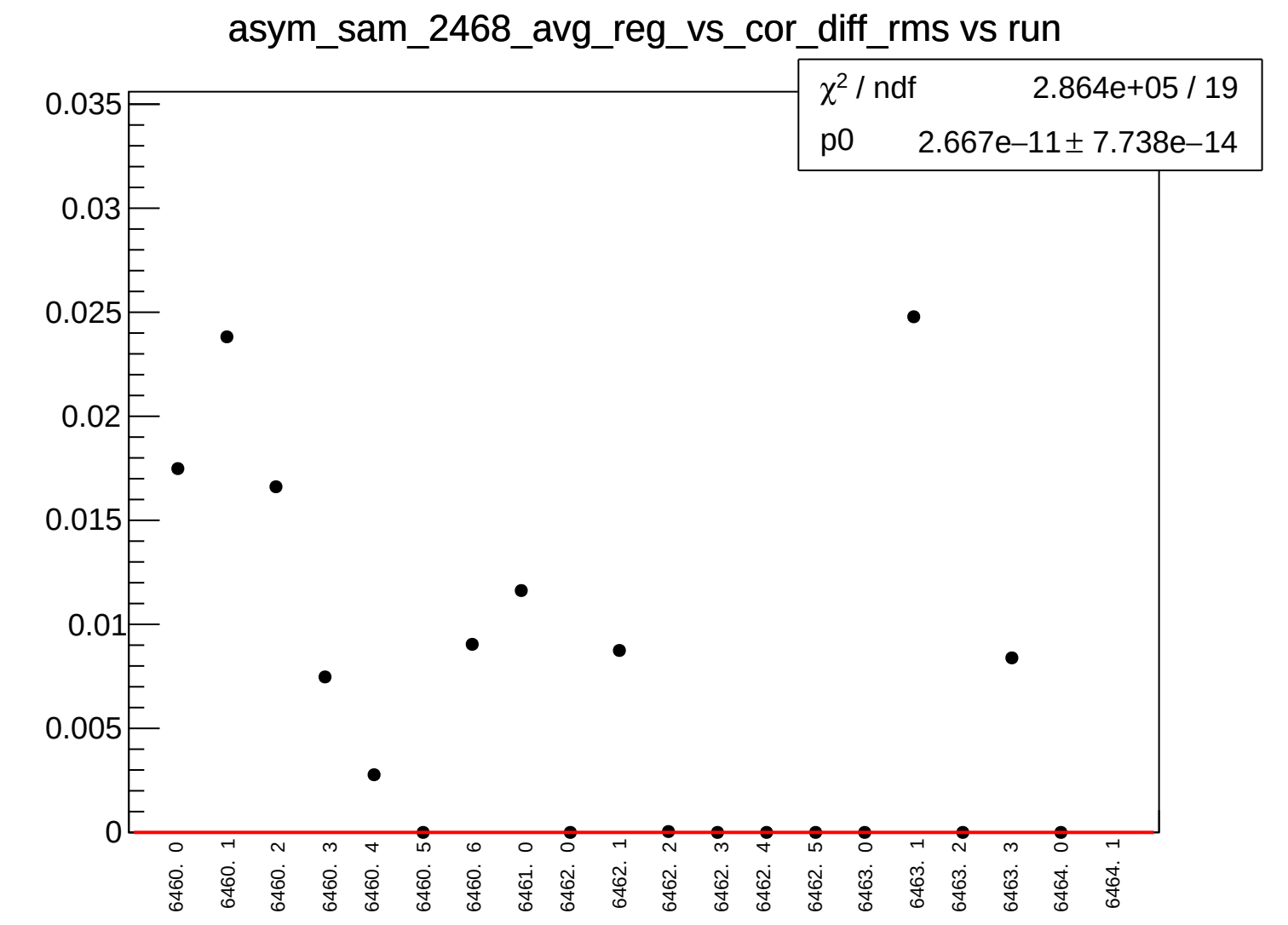

asym_sam_2468_avg_mean vs run
χ² / ndf 10.26 / 19
p0 751 ± 2111
20000
10000
0
−10000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 64.12
Std Dev 0
1
0.5
0
−0.5
−1

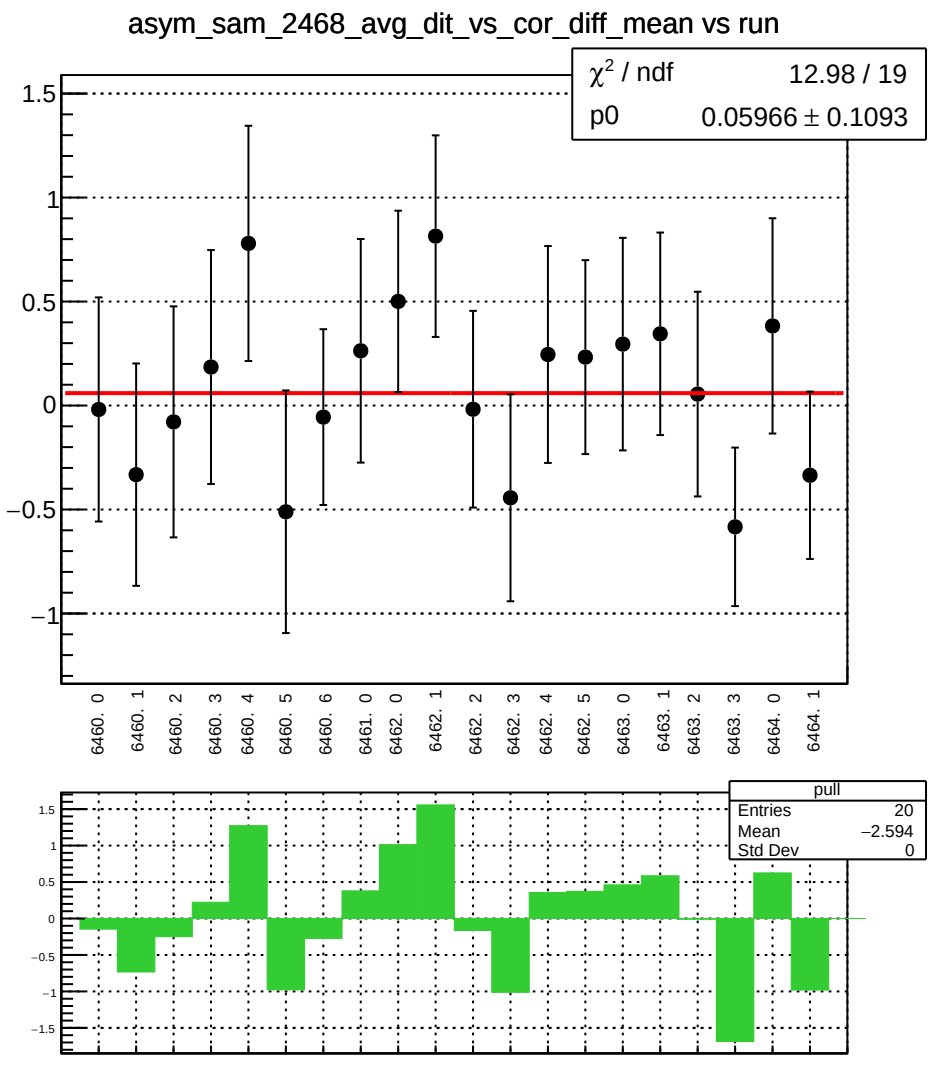

pull1D
Entries 20
Mean −0.01416
Std Dev 0.7162
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

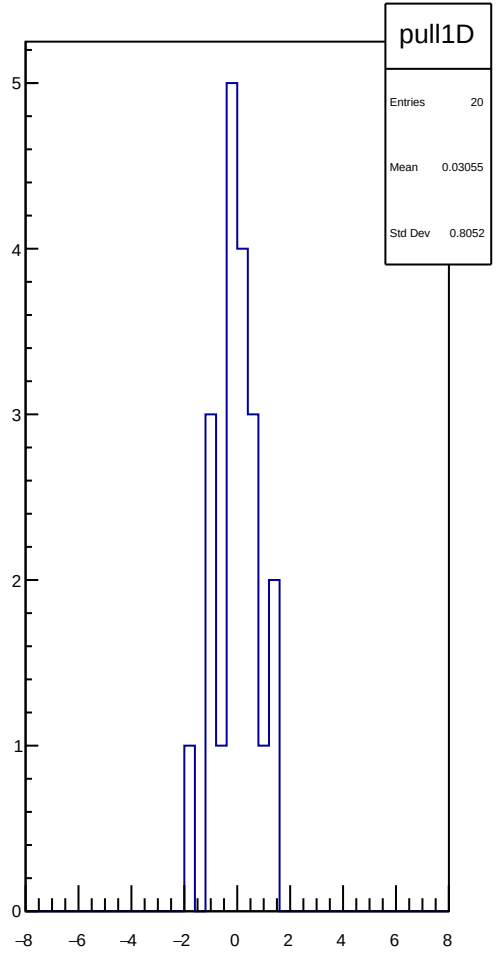

asym_sam_2468_avg_rms vs run
χ² / ndf 875.8 / 19
p0 949.4 ± 1.493
1040
1020
1000
980
960
940
920
900
880
860
840
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

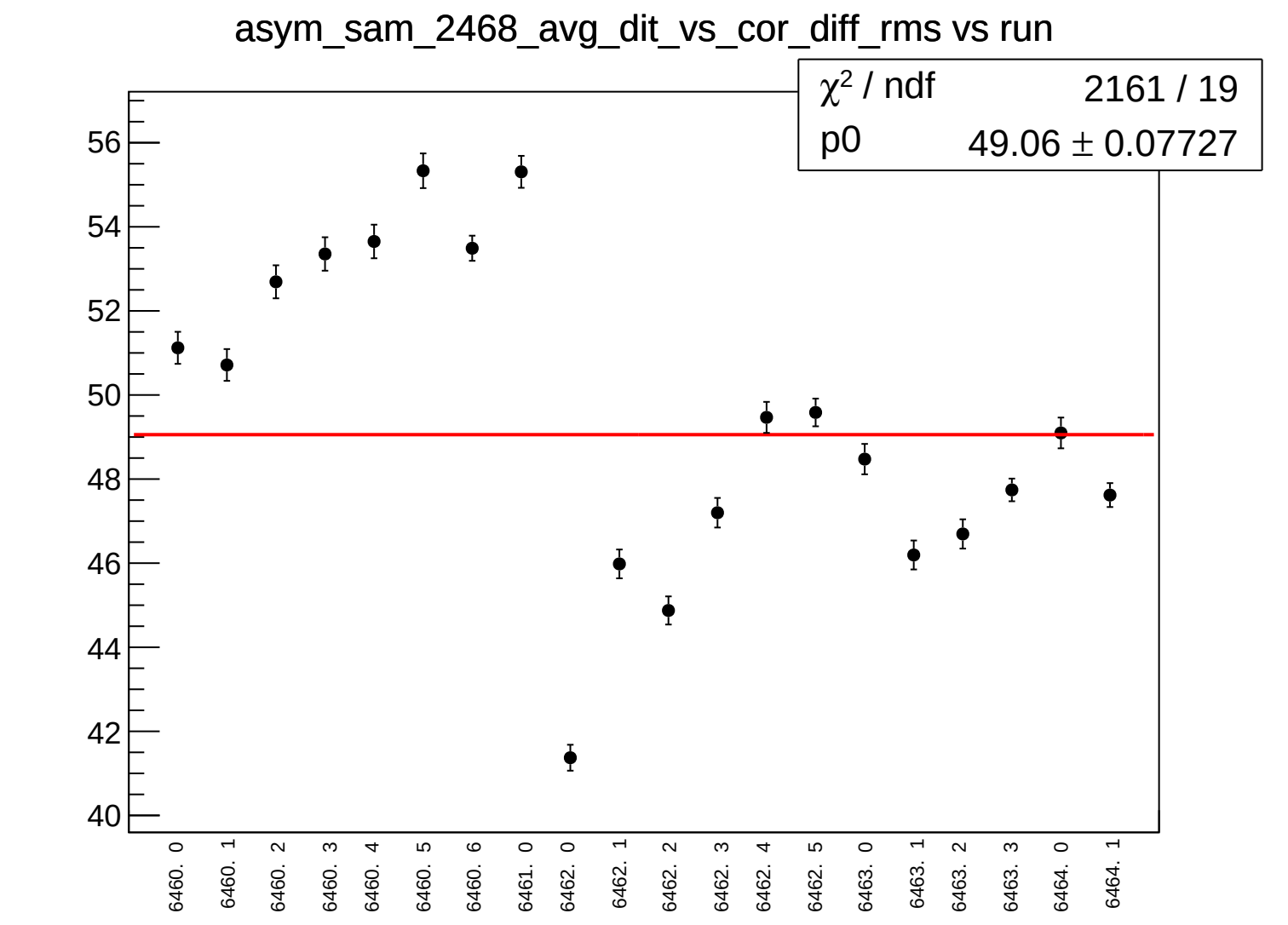

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 23.69 / 19
p0 1.043e−14 ± 1.094e−13
0.6
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.485
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

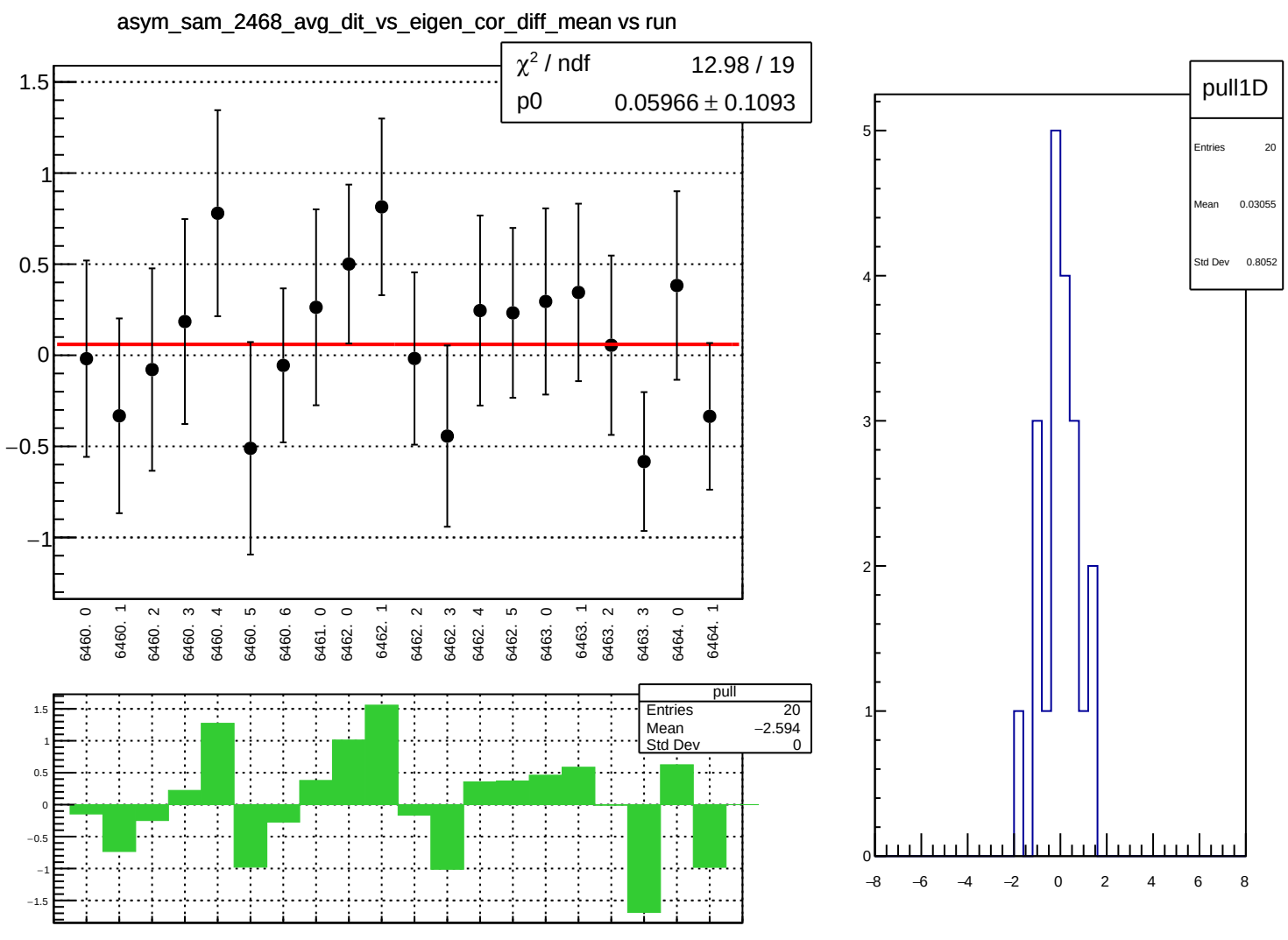

pull1D
Entries 20
Mean −0.1734
Std Dev 1.075
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

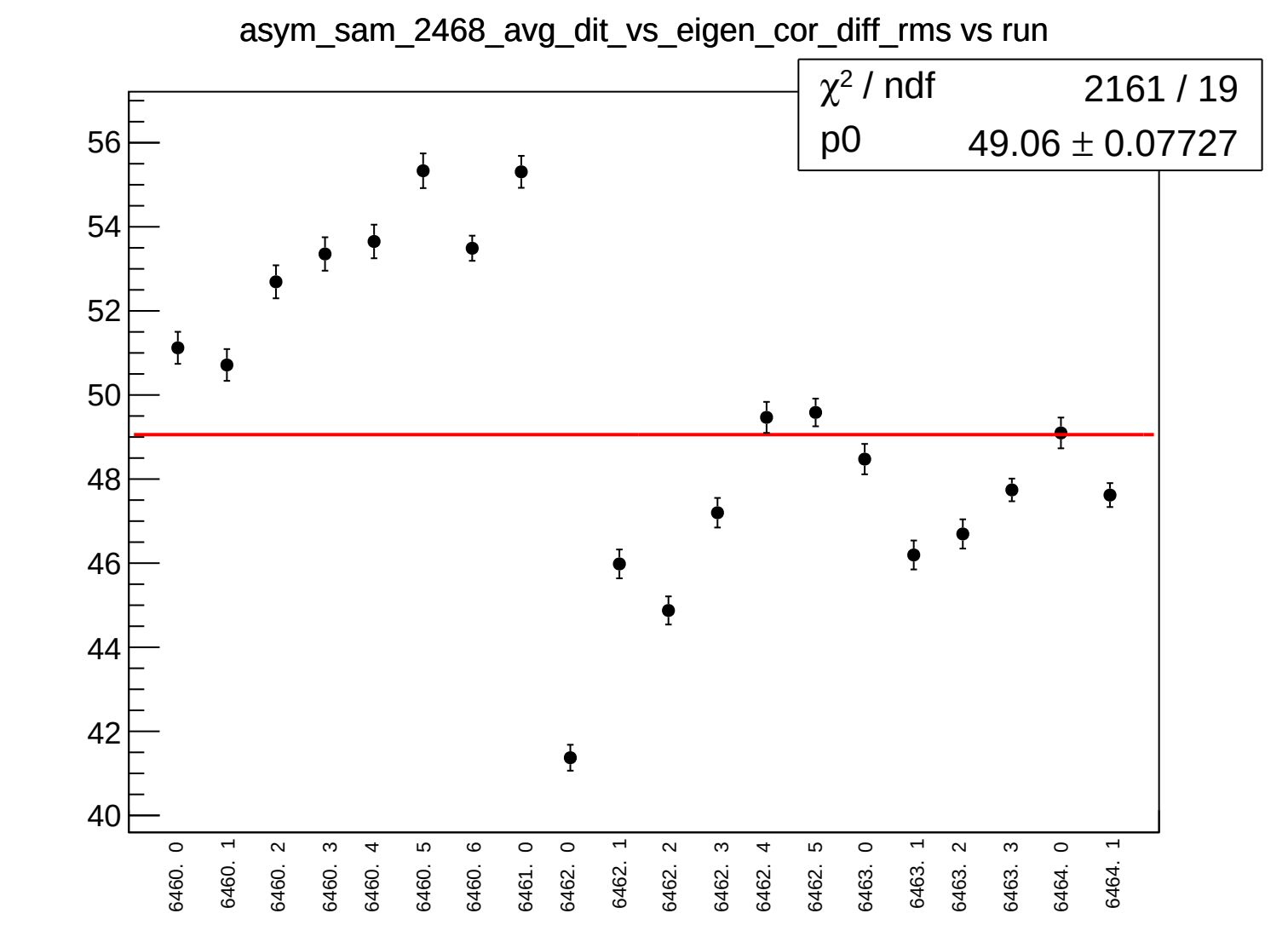

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.864e+05 / 19
p0 2.667e−11 ± 7.738e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

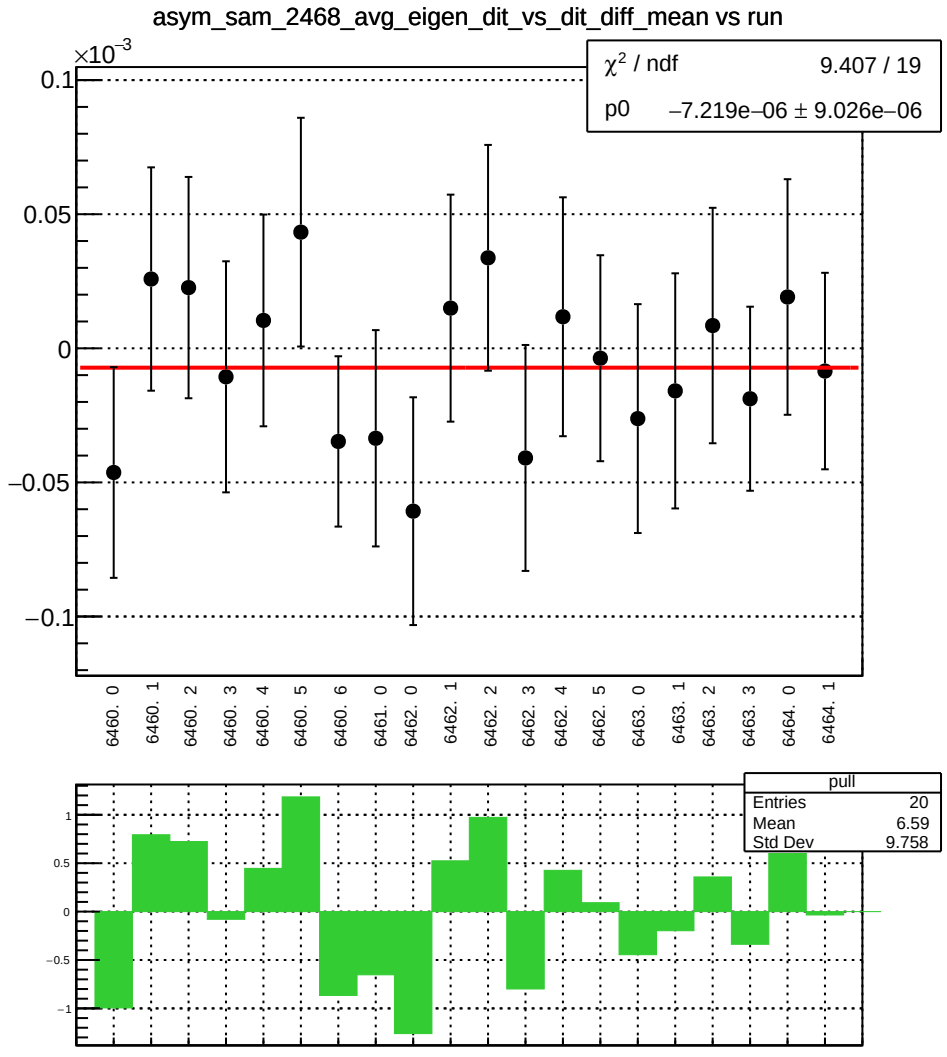

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 12.98 / 19
p0 0.05966 ± 0.1093
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.594
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

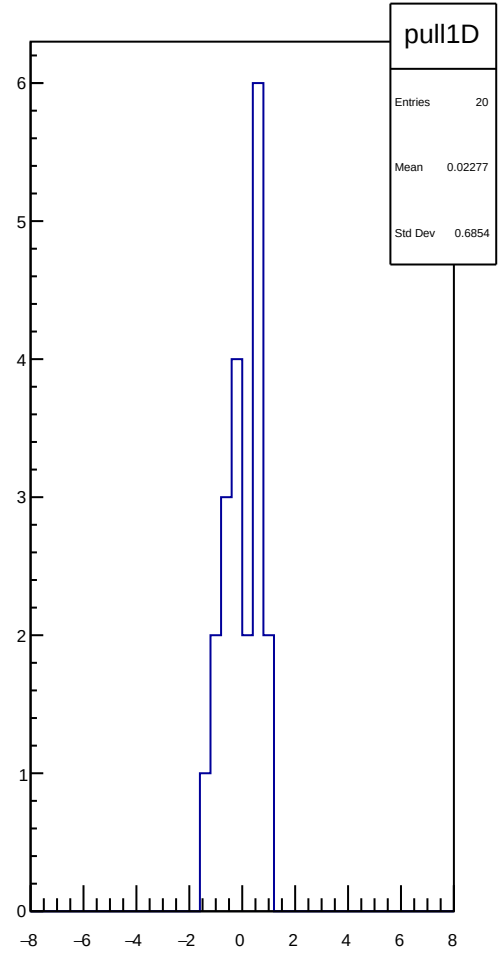

pull1D
Entries 20
Mean 0.03055
Std Dev 0.8052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

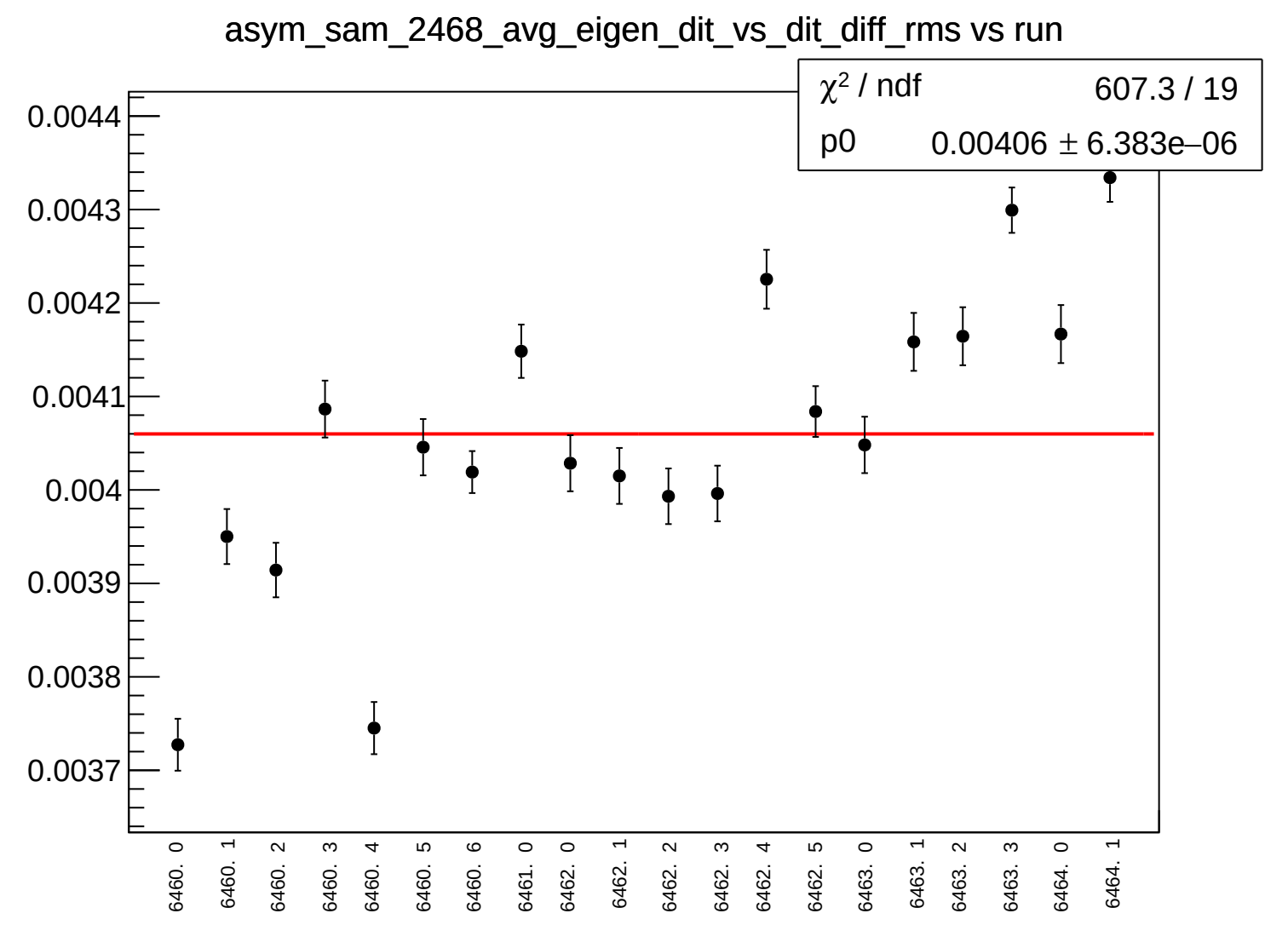

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2161 / 19
p0 49.06 ± 0.07727
56
54
52
50
48
46
44
42
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

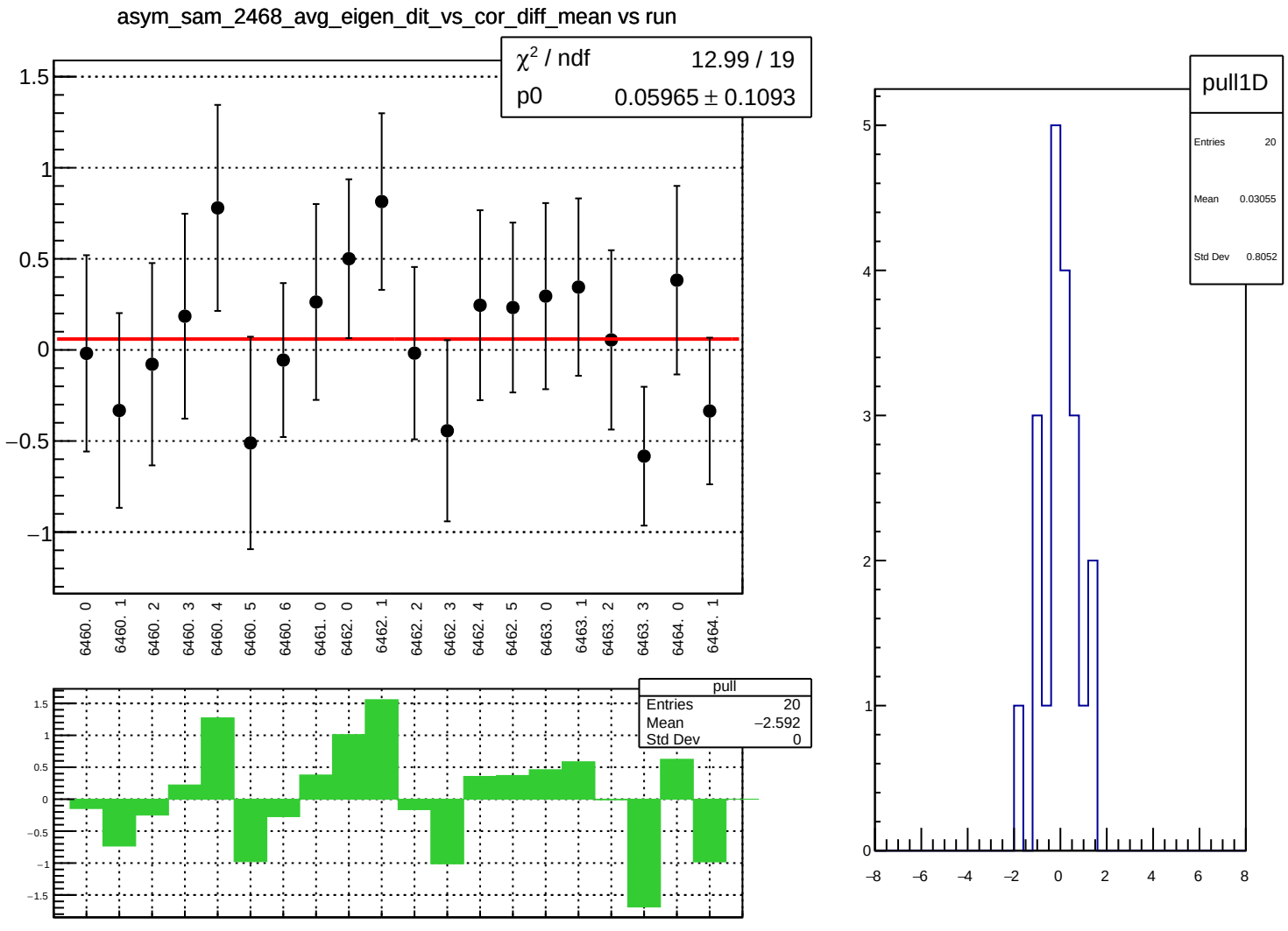

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.98 / 19
p0 0.05966 ± 0.1093
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.594
Std Dev 0
pull1D
Entries 20
Mean 0.03055
Std Dev 0.8052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

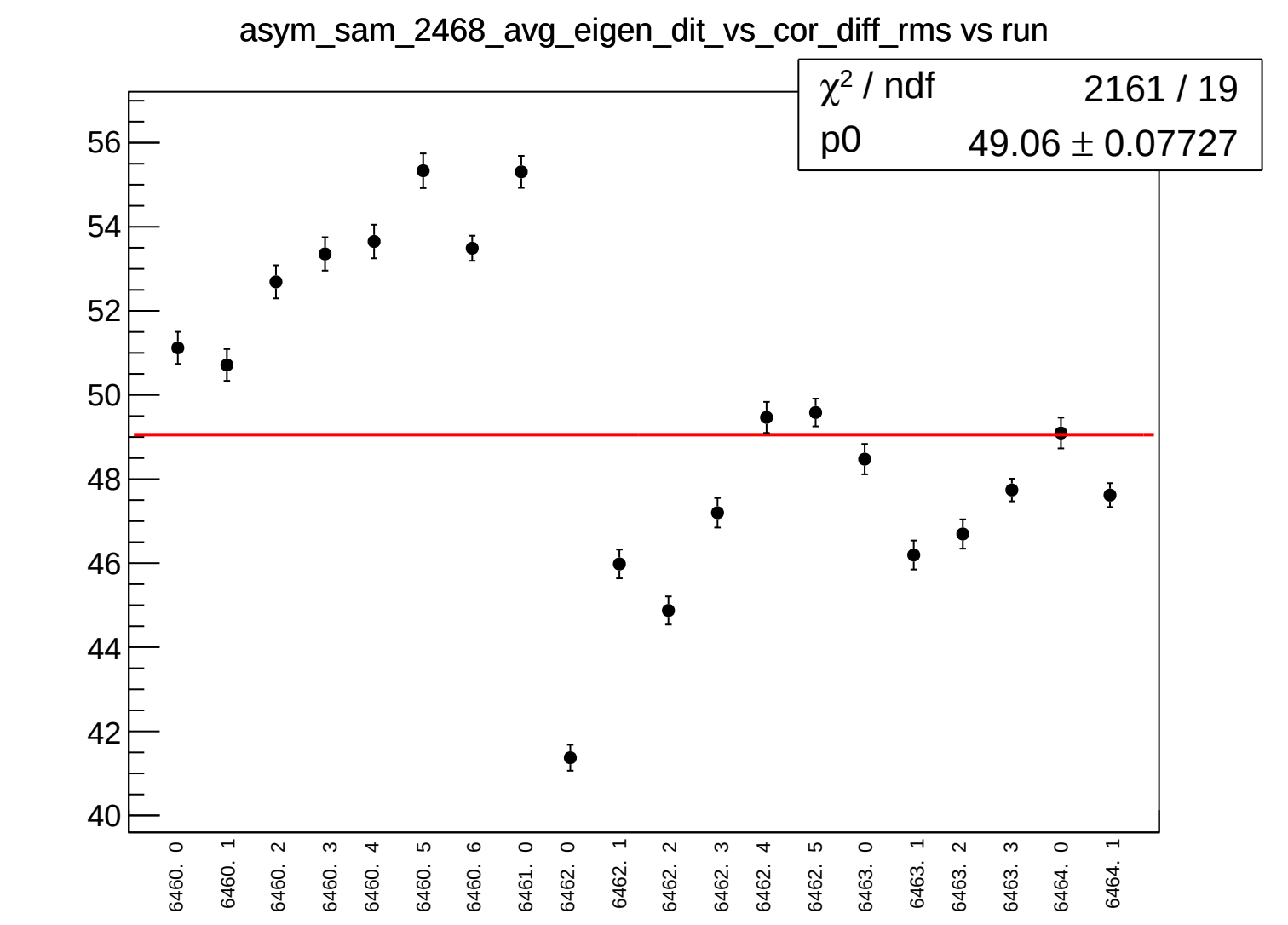

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2161 / 19
p0 49.06 ± 0.07727
56
54
52
50
48
46
44
42
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

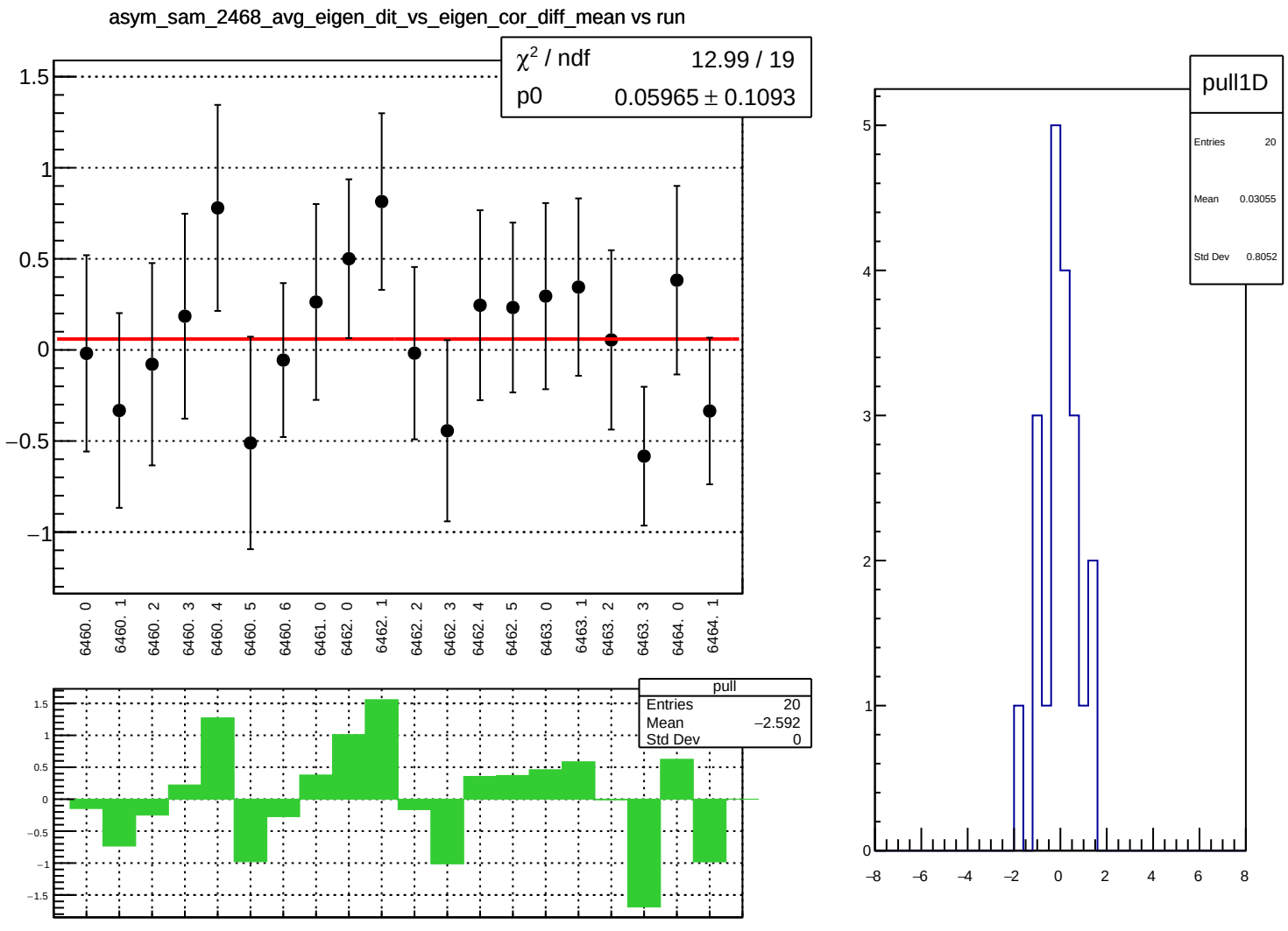

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 9.407 / 19
p0 −7.219e−06 ± 9.026e−06
0.1
0.05
0
−0.05
−0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 6.59
Std Dev 9.758
1
0.5
0
−0.5
−1

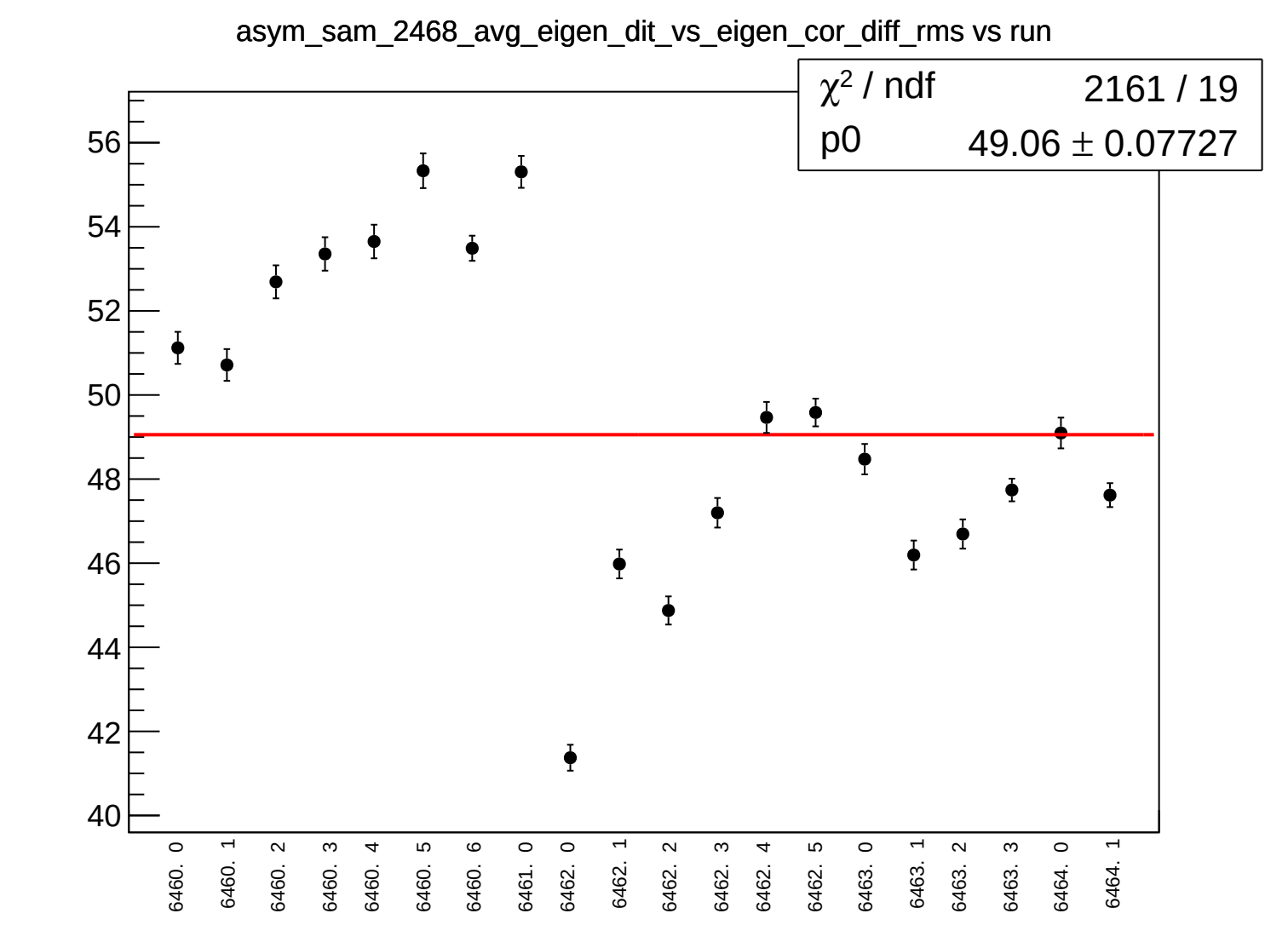

pull1D
Entries 20
Mean 0.02277
Std Dev 0.6854
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

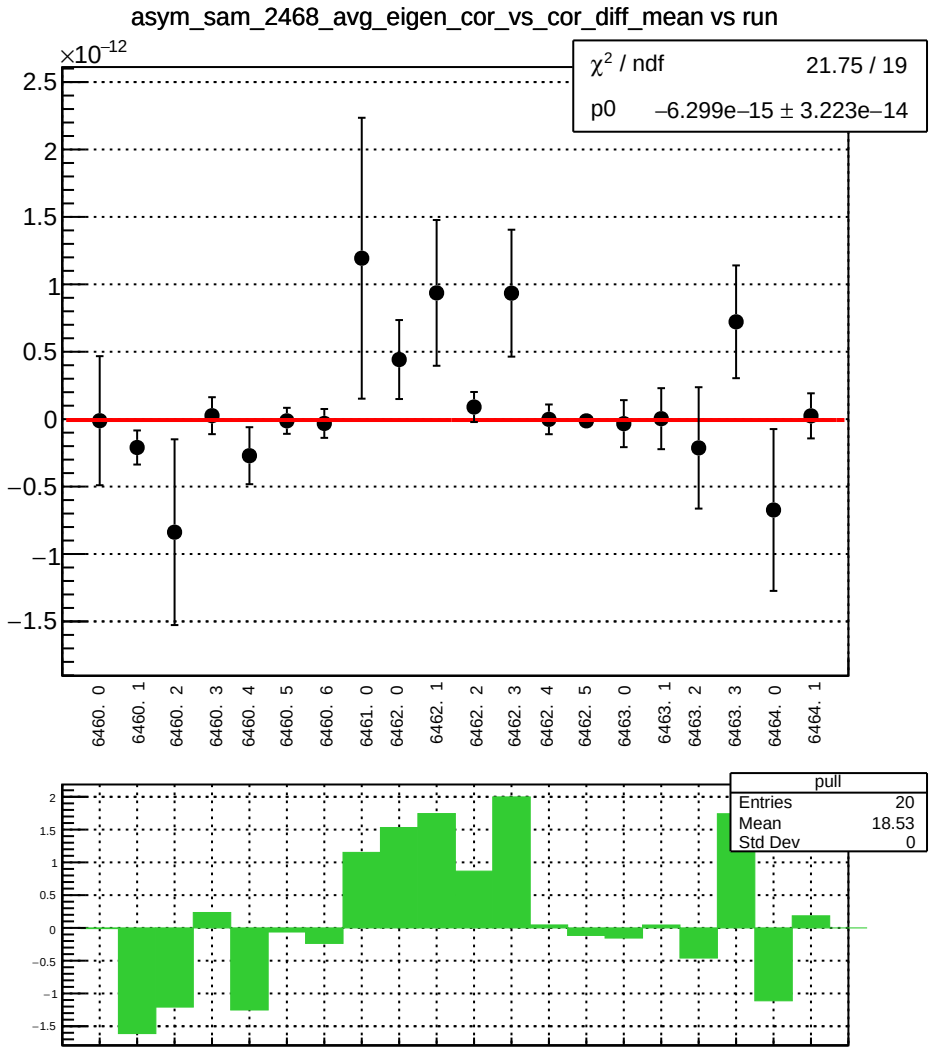

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 607.3 / 19
p0 0.00406 ± 6.383e–06
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

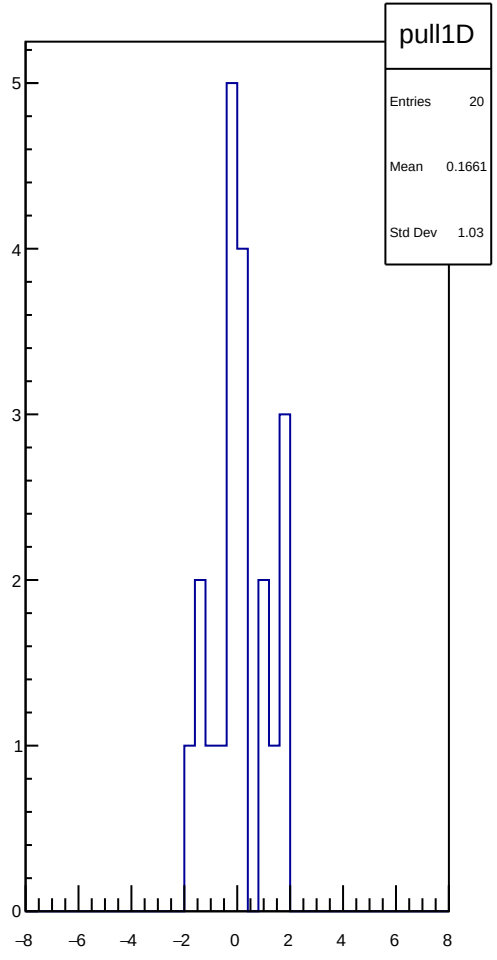

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 12.99 / 19
p0 0.05965 ± 0.1093
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.592
Std Dev 0
pull1D
Entries 20
Mean 0.03055
Std Dev 0.8052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

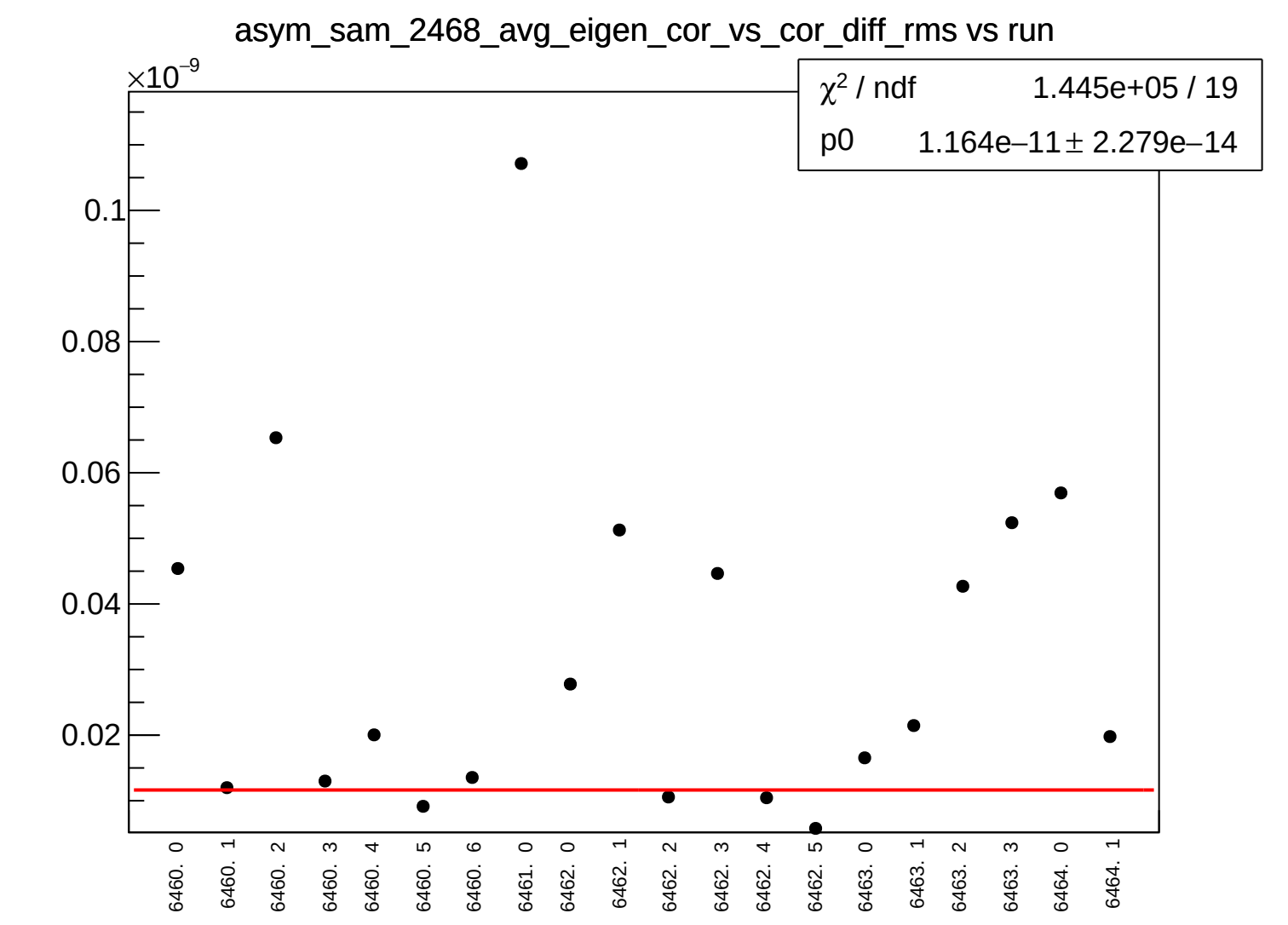

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2161 / 19
p0 49.06 ± 0.07727
56
54
52
50
48
46
44
42
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

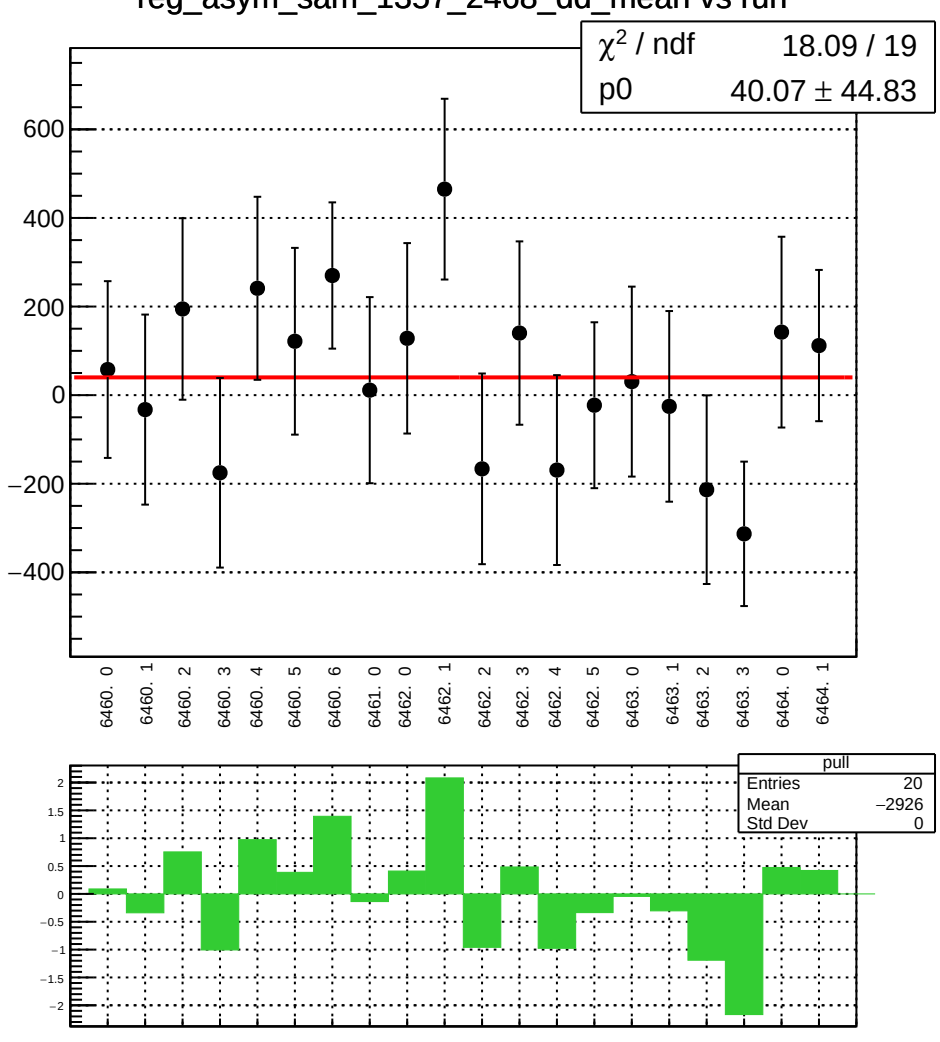

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.99 / 19
p0 0.05965 ± 0.1093
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.592
Std Dev 0
pull1D
Entries 20
Mean 0.03055
Std Dev 0.8052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

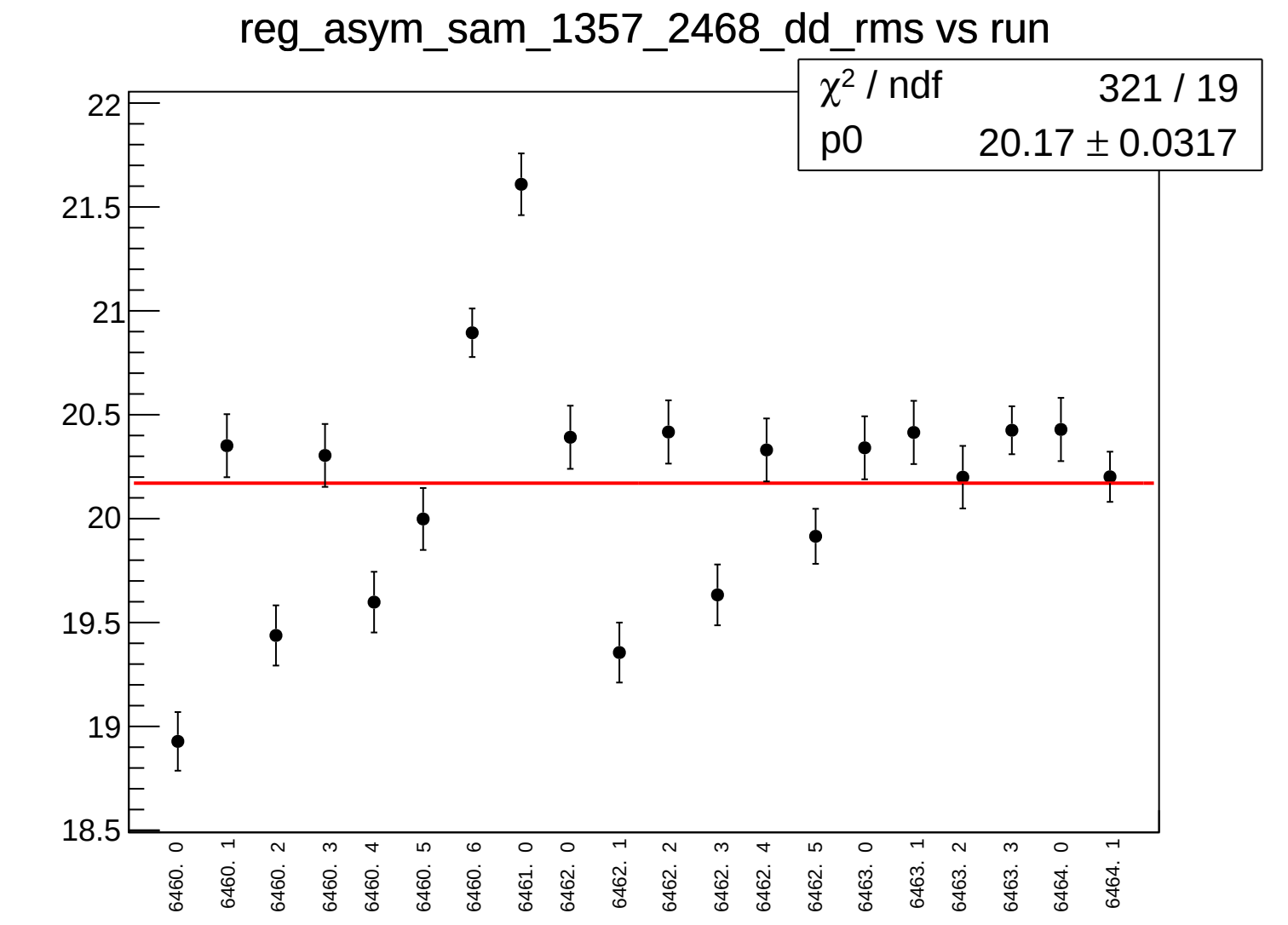

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2161 / 19
p0 49.06 ± 0.07727
56
54
52
50
48
46
44
42
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

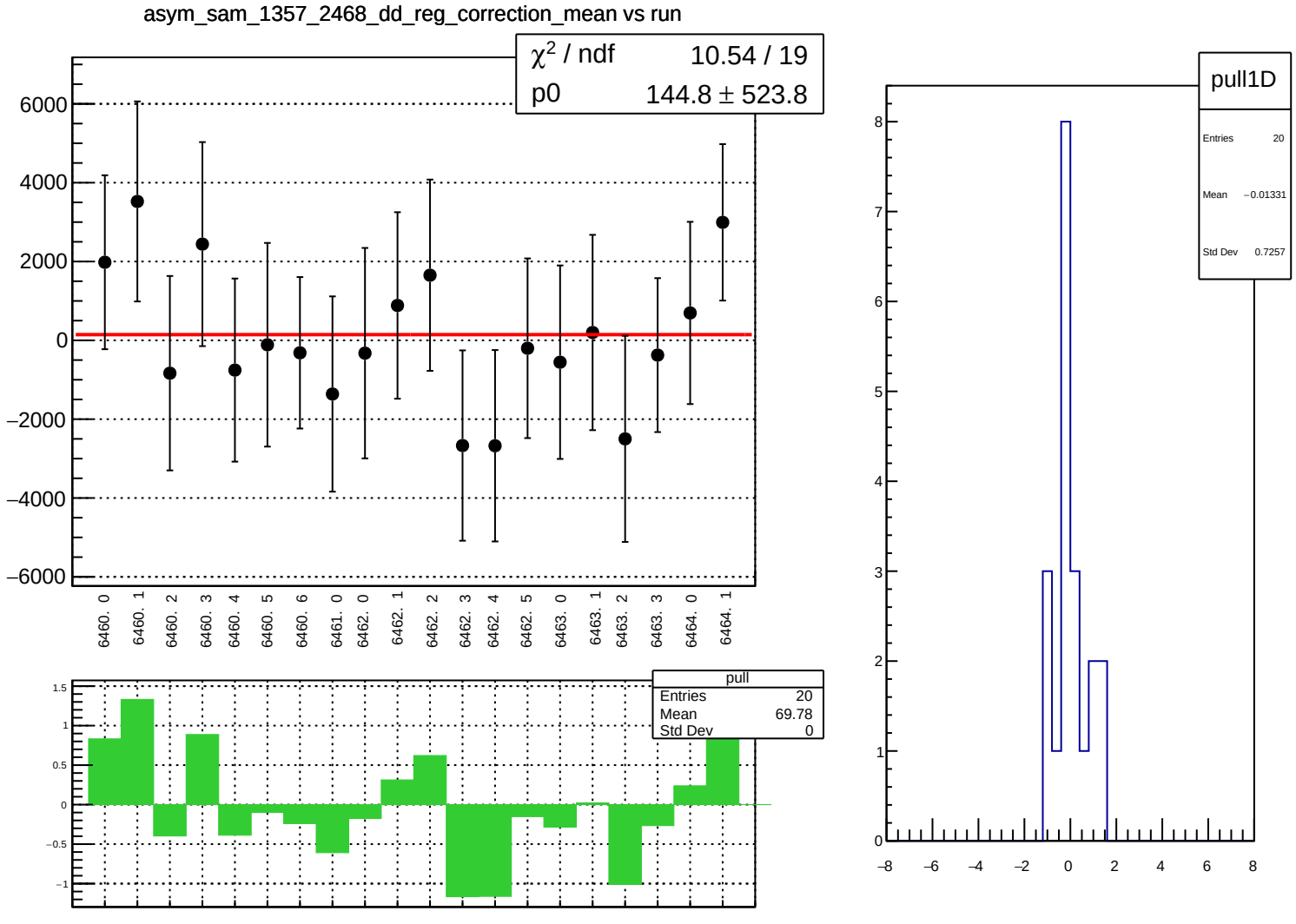

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.75 / 19
p0 −6.299e−15 ± 3.223e−14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 18.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

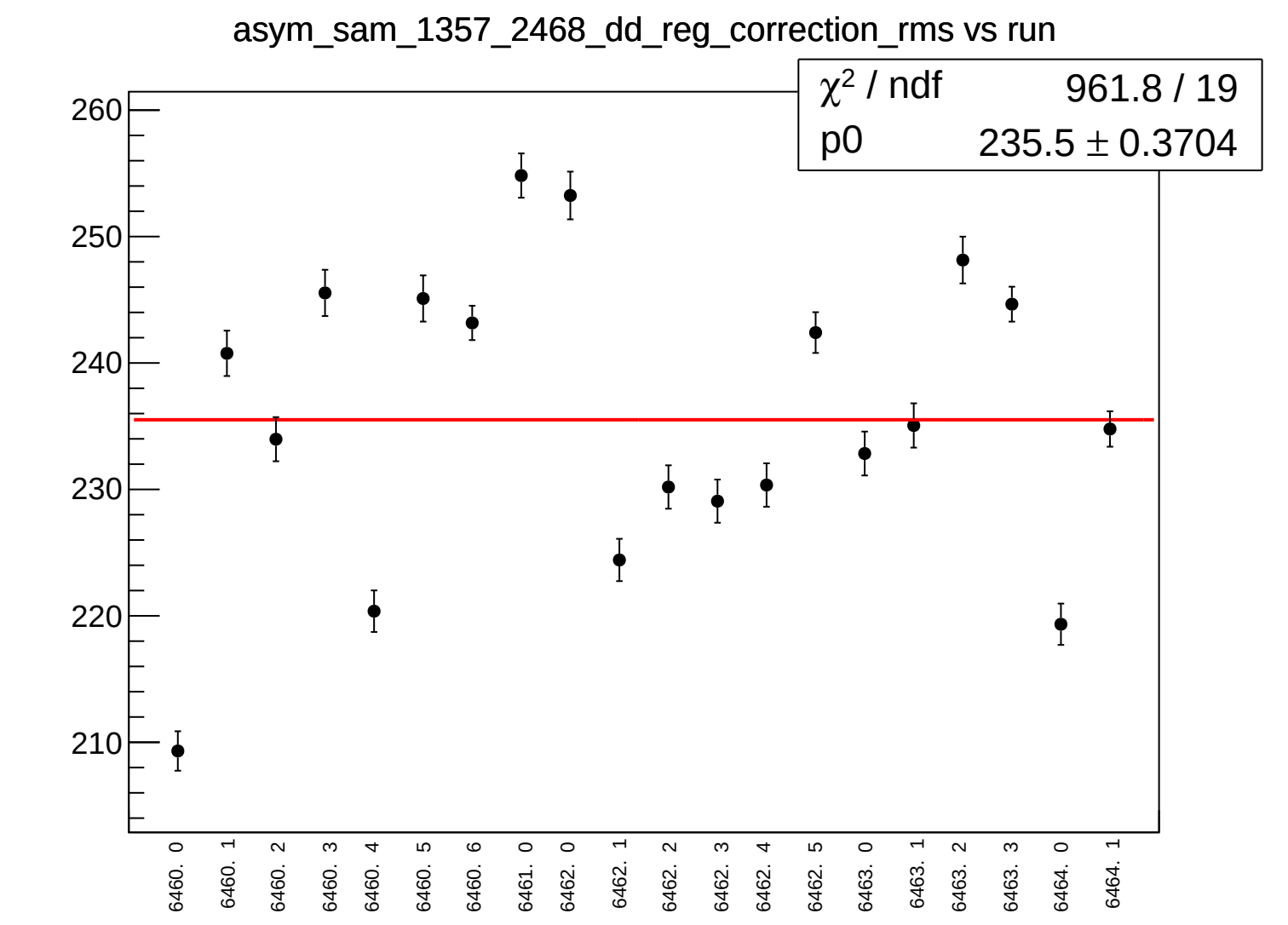

pull1D
Entries 20
Mean 0.1661
Std Dev 1.03
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

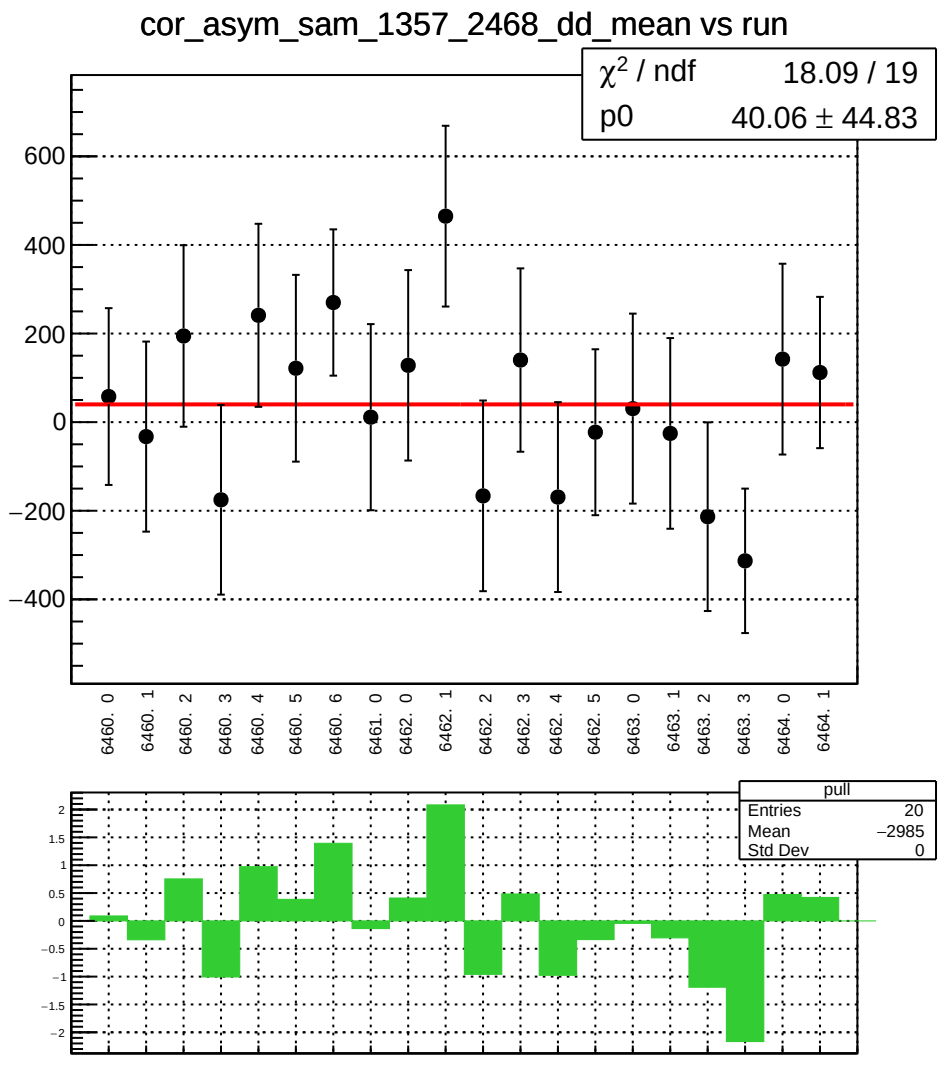

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.445e+05 / 19
p0 1.164e−11 ± 2.279e−14
0.1
0.08
0.06
0.04
0.02
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

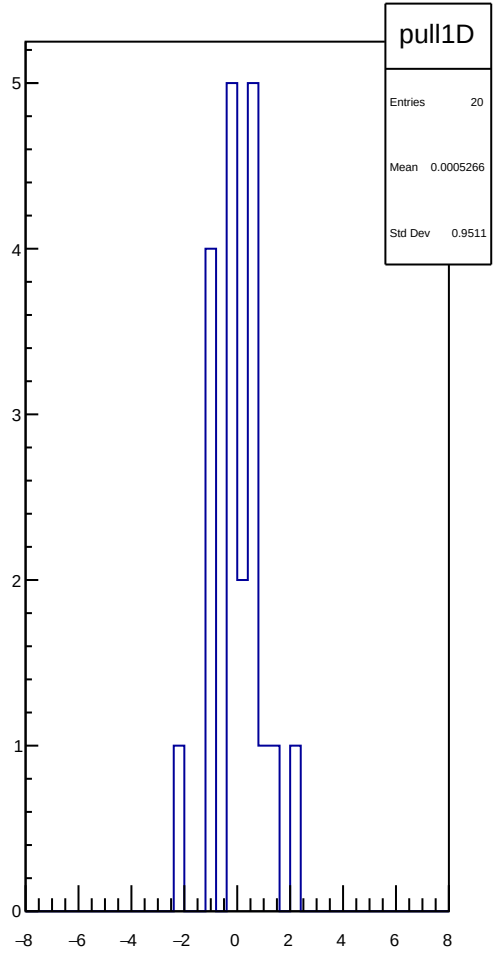

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 18.09 / 19
p0 40.07 ± 44.83
600
400
200
0
−200
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2926
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.0005375
Std Dev 0.9511
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

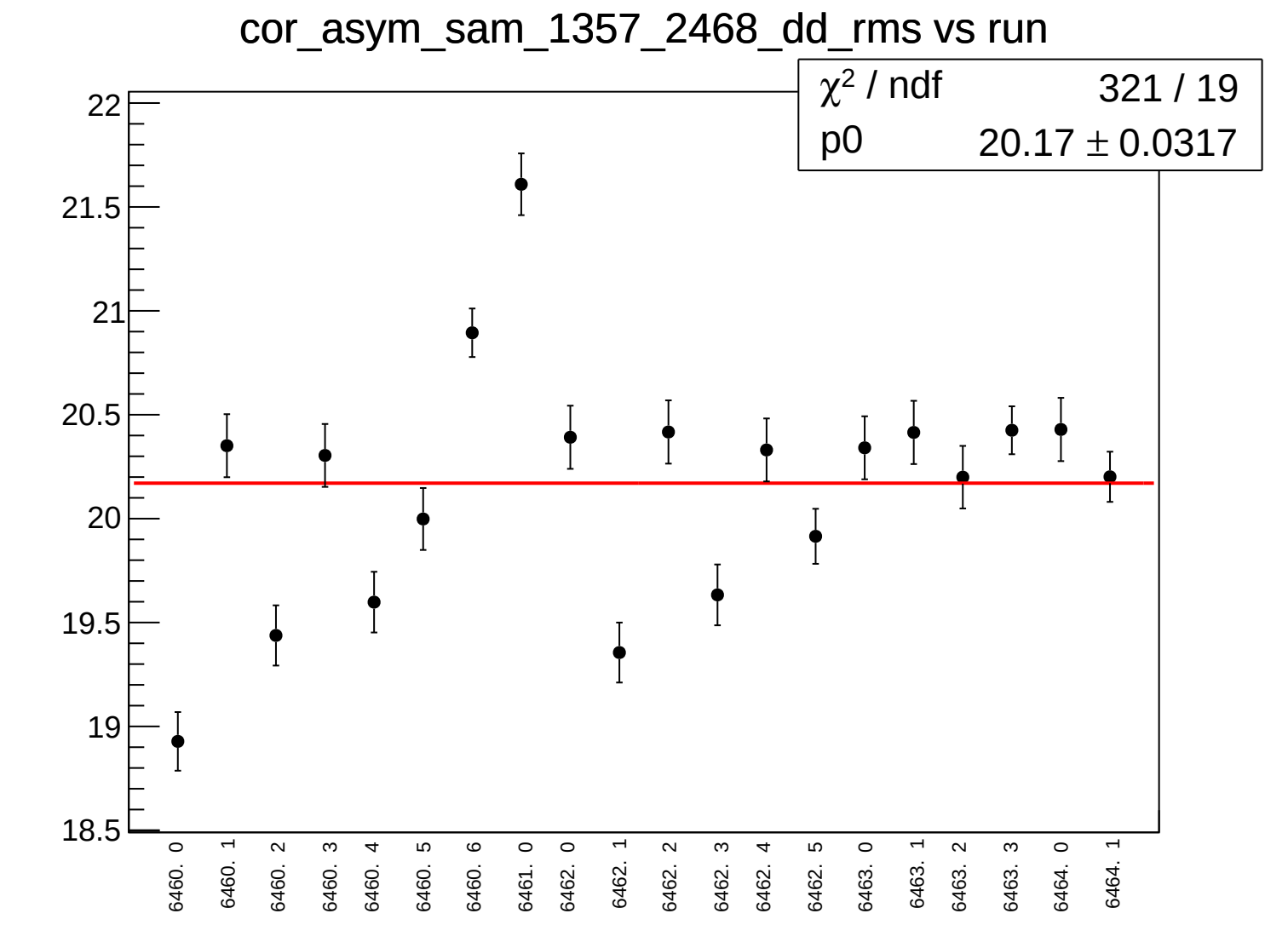

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 321 / 19
p0 20.17 ± 0.0317
22
21.5
21
20.5
20
19.5
19
18.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

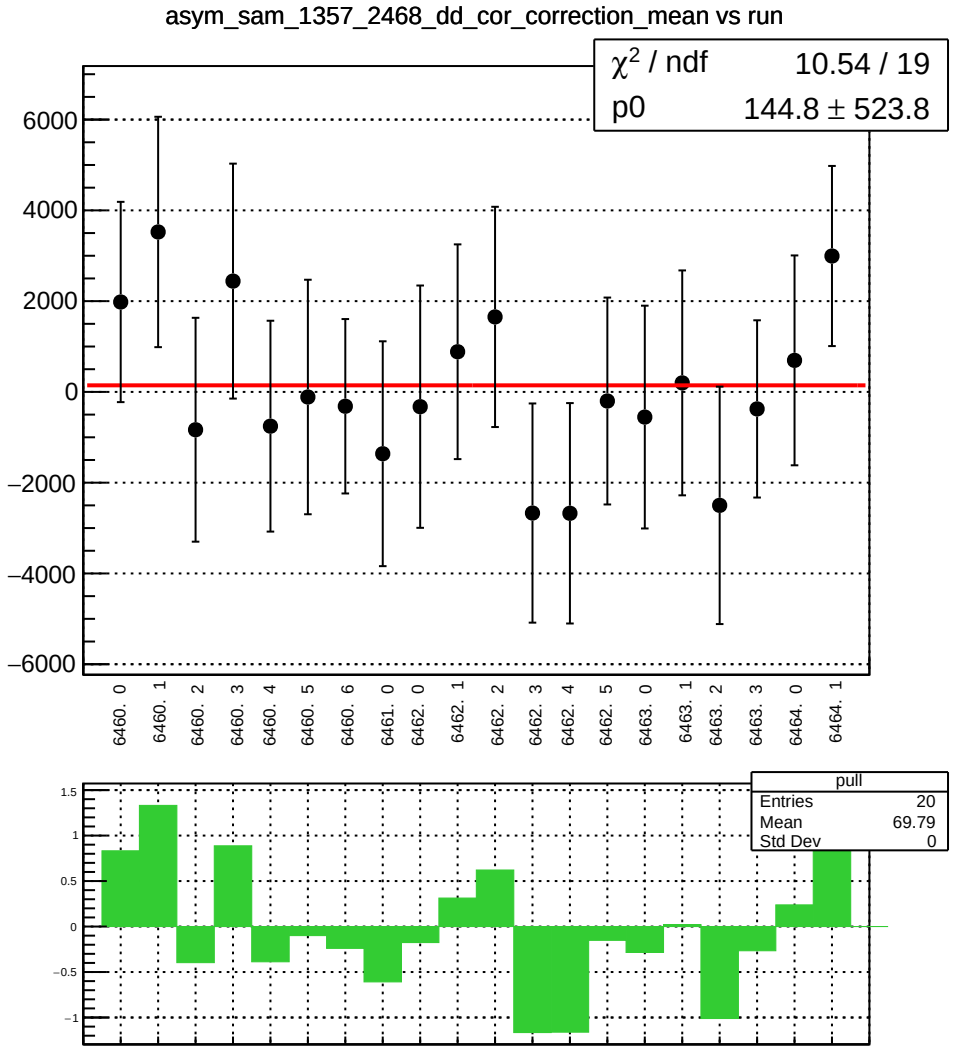

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 10.54 / 19
p0 144.8 ± 523.8
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01331
Std Dev 0.7257
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

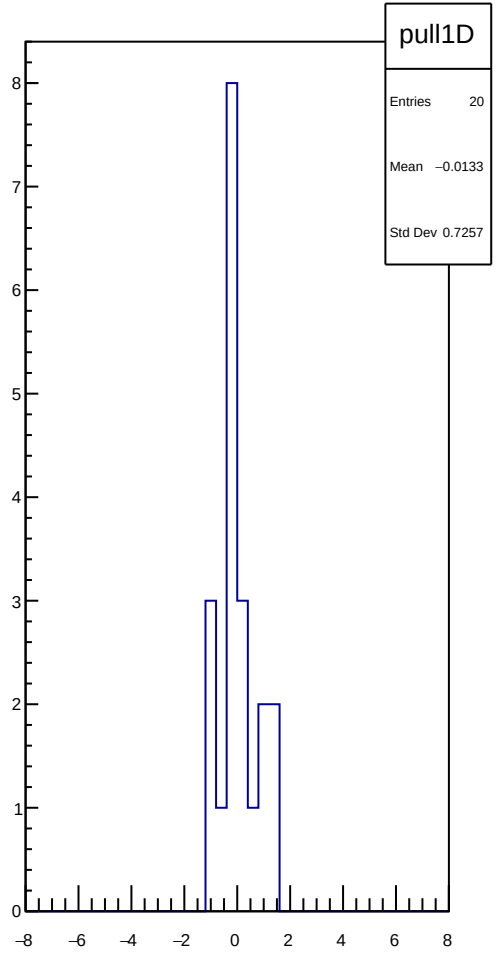

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 961.8 / 19
p0 235.5 ± 0.3704
260
250
240
230
220
210
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

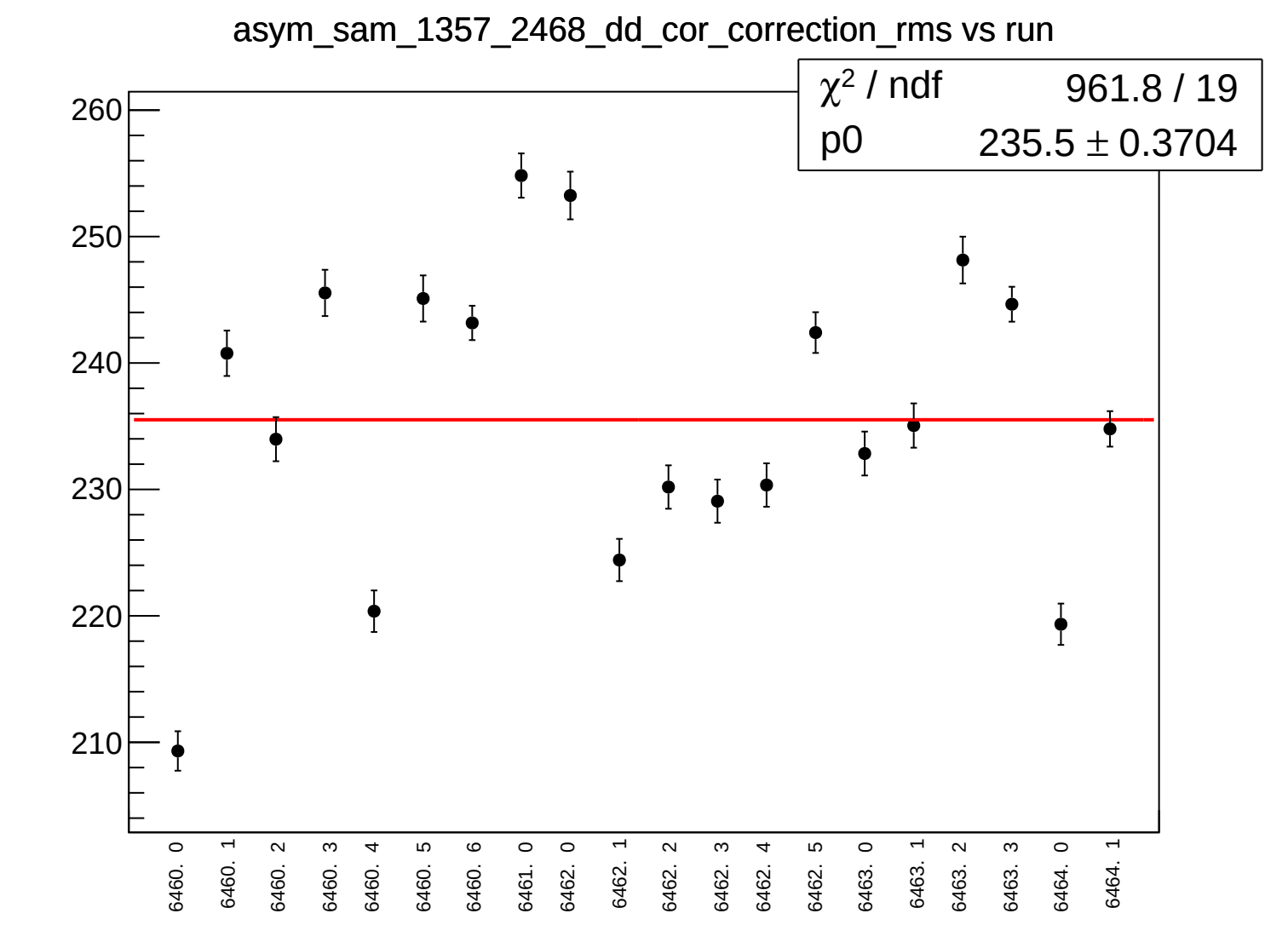

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 18.09 / 19
p0 40.06 ± 44.83
600
400
200
0
−200
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2985
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

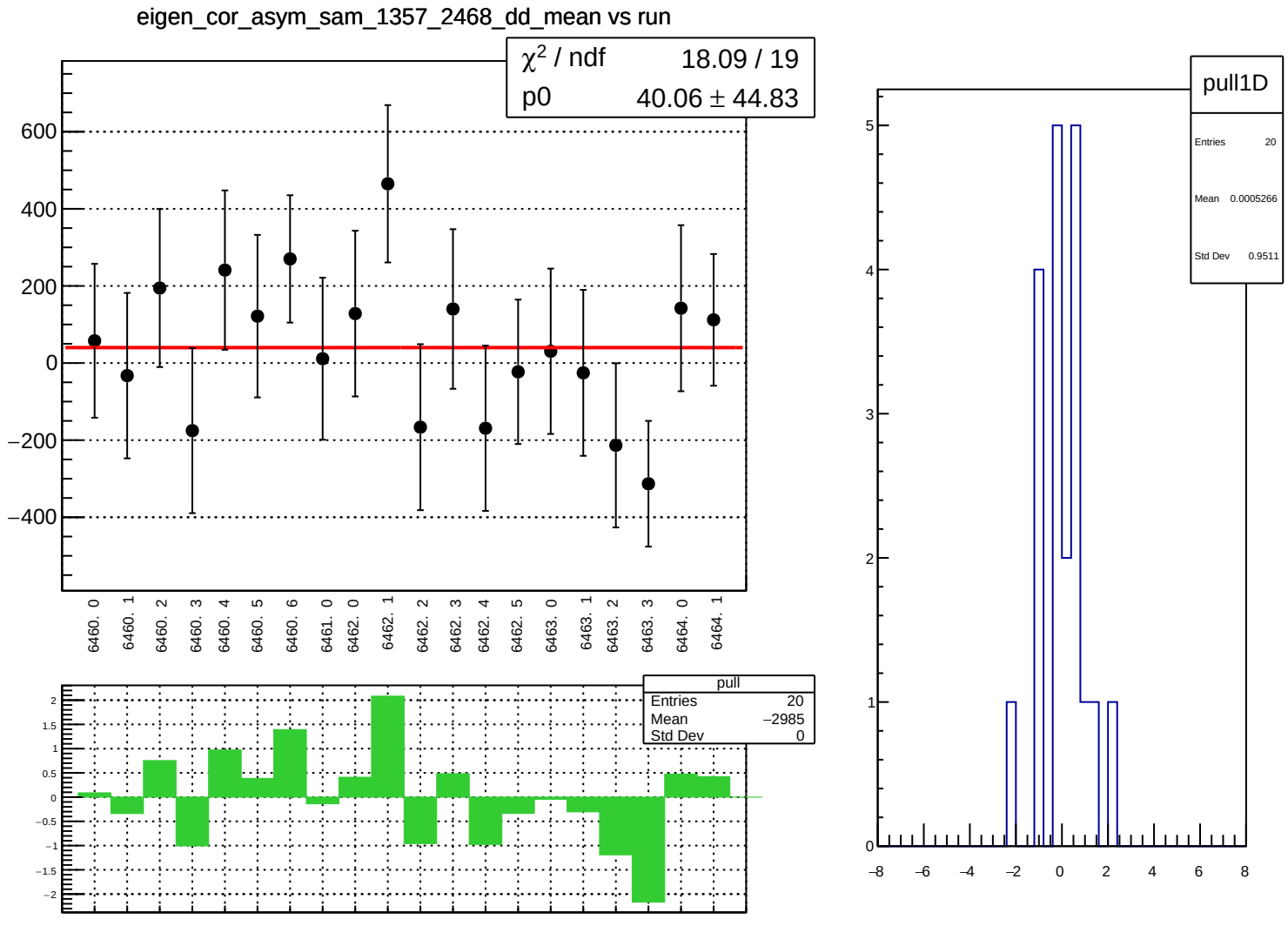

pull1D
Entries 20
Mean 0.0005266
Std Dev 0.9511
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

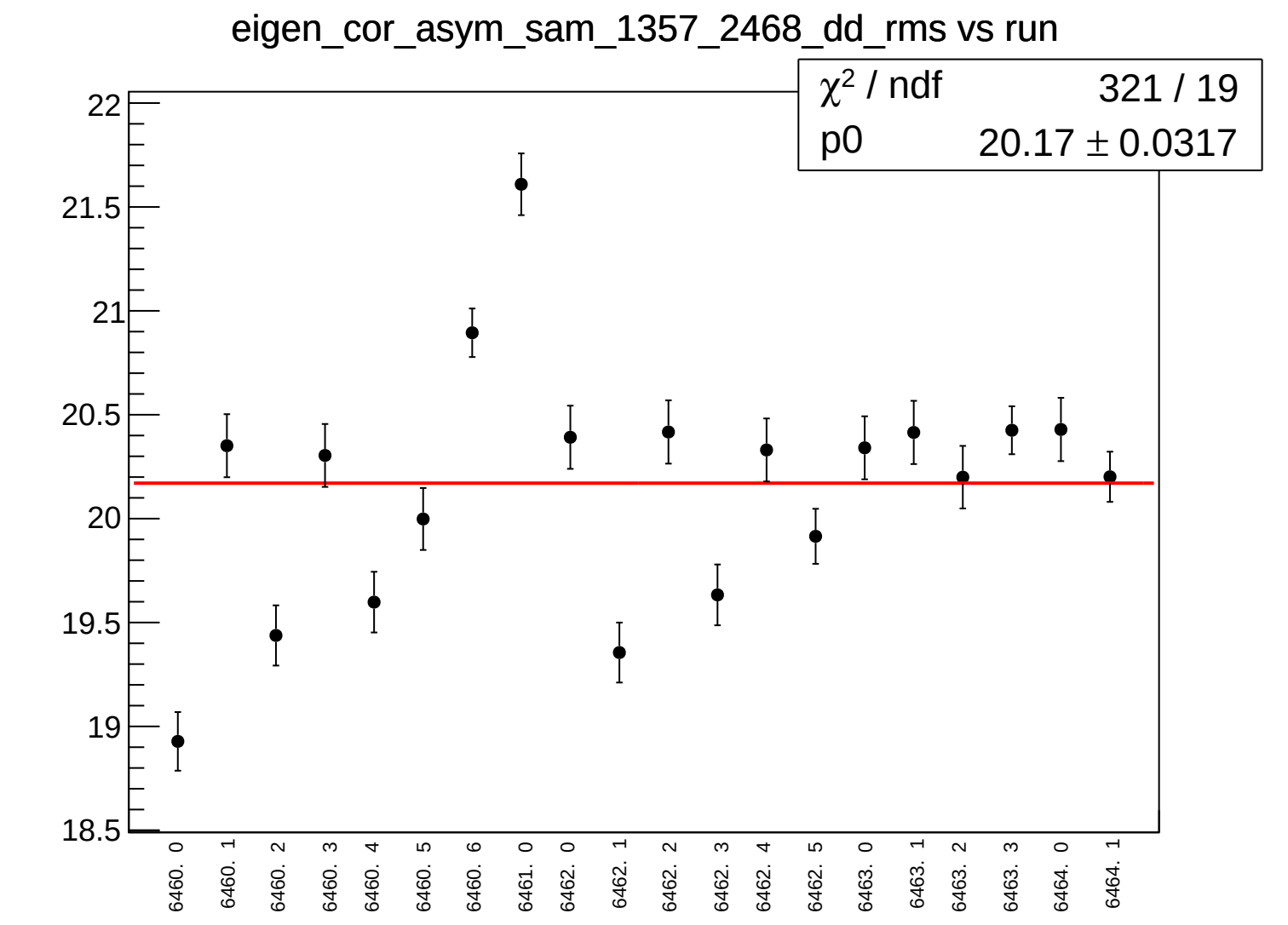

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 321 / 19
p0 20.17 ± 0.0317
22
21.5
21
20.5
20
19.5
19
18.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

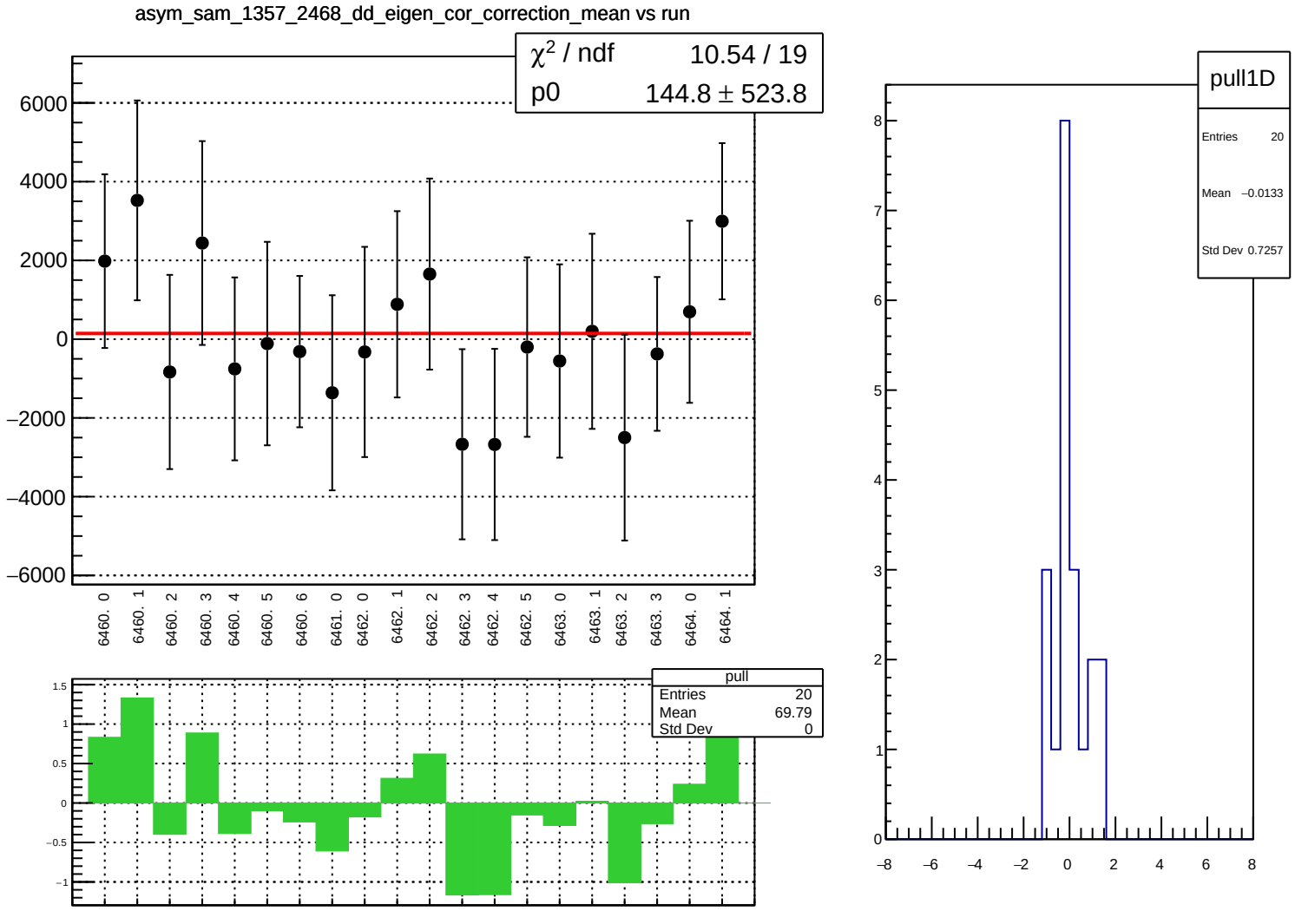

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 10.54 / 19
p0 144.8 ± 523.8
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1

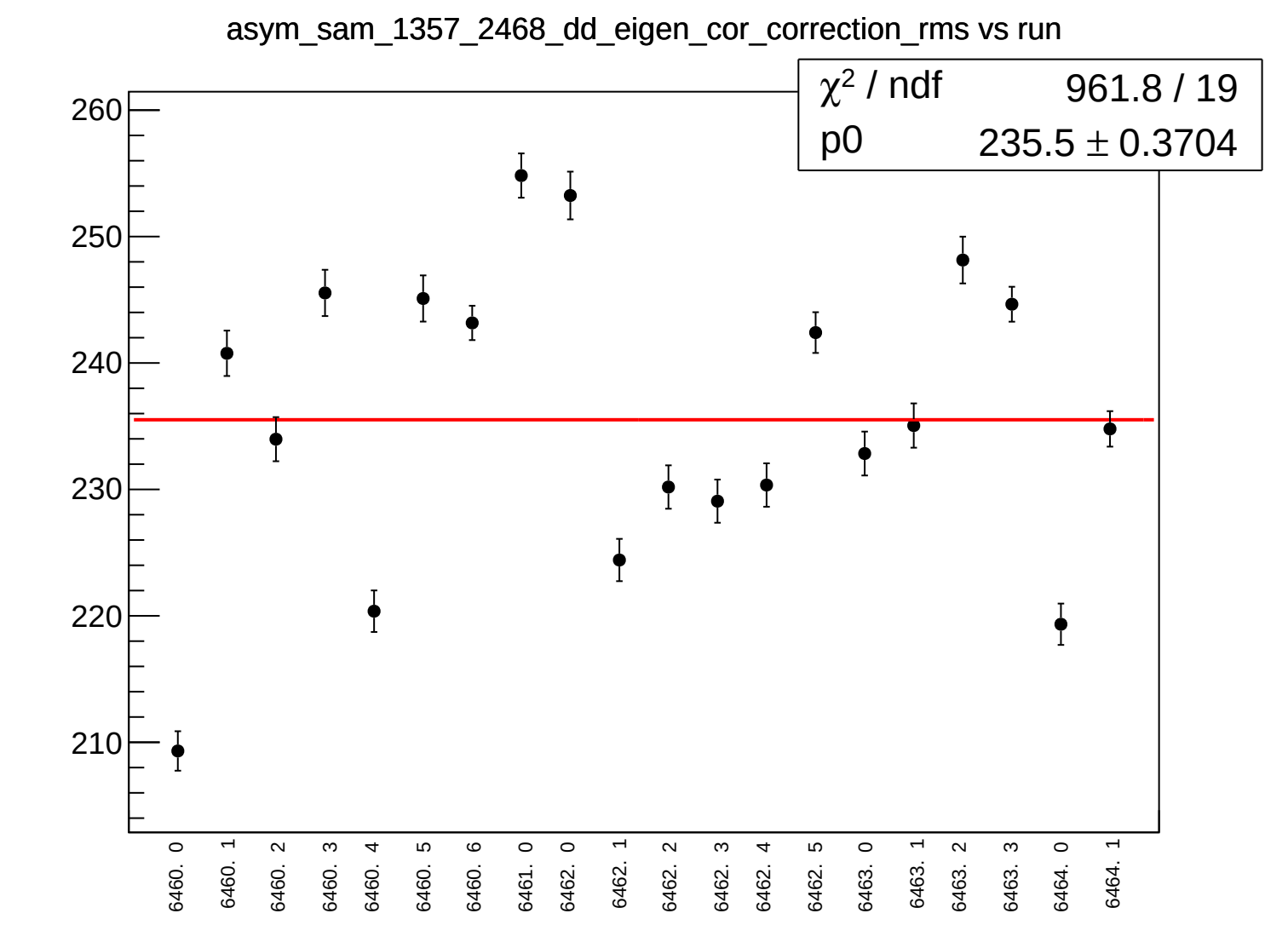

pull1D
Entries 20
Mean −0.0133
Std Dev 0.7257
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

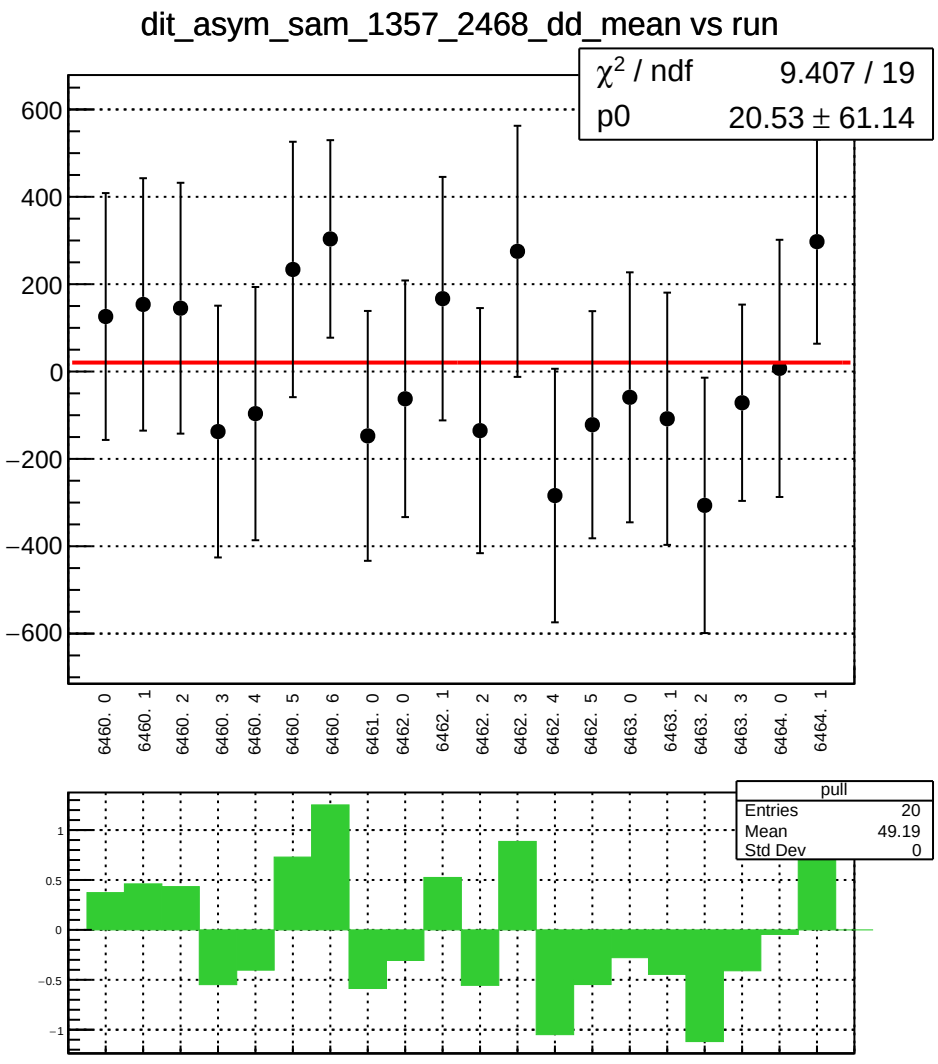

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 961.8 / 19
p0 235.5 ± 0.3704
260
250
240
230
220
210
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

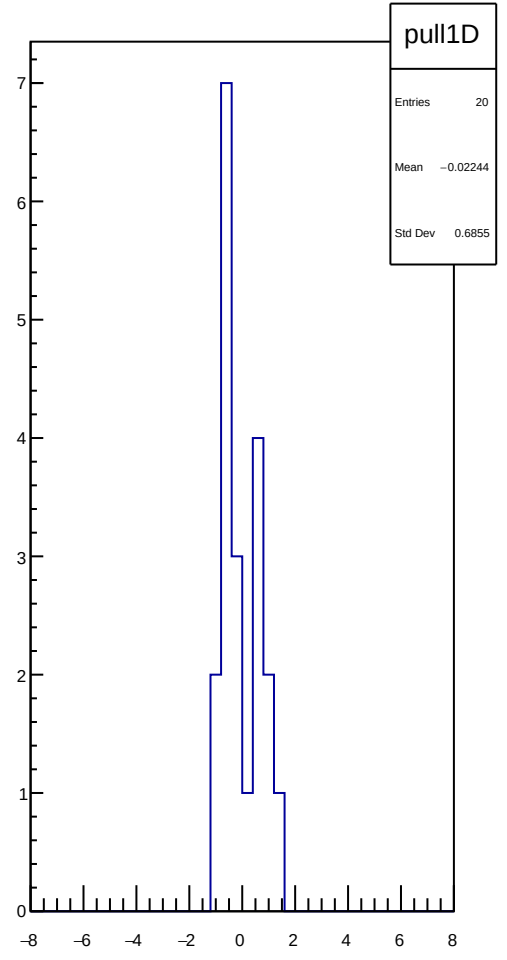

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 18.09 / 19
p0 40.06 ± 44.83
600
400
200
0
−200
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2985
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.0005266
Std Dev 0.9511
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

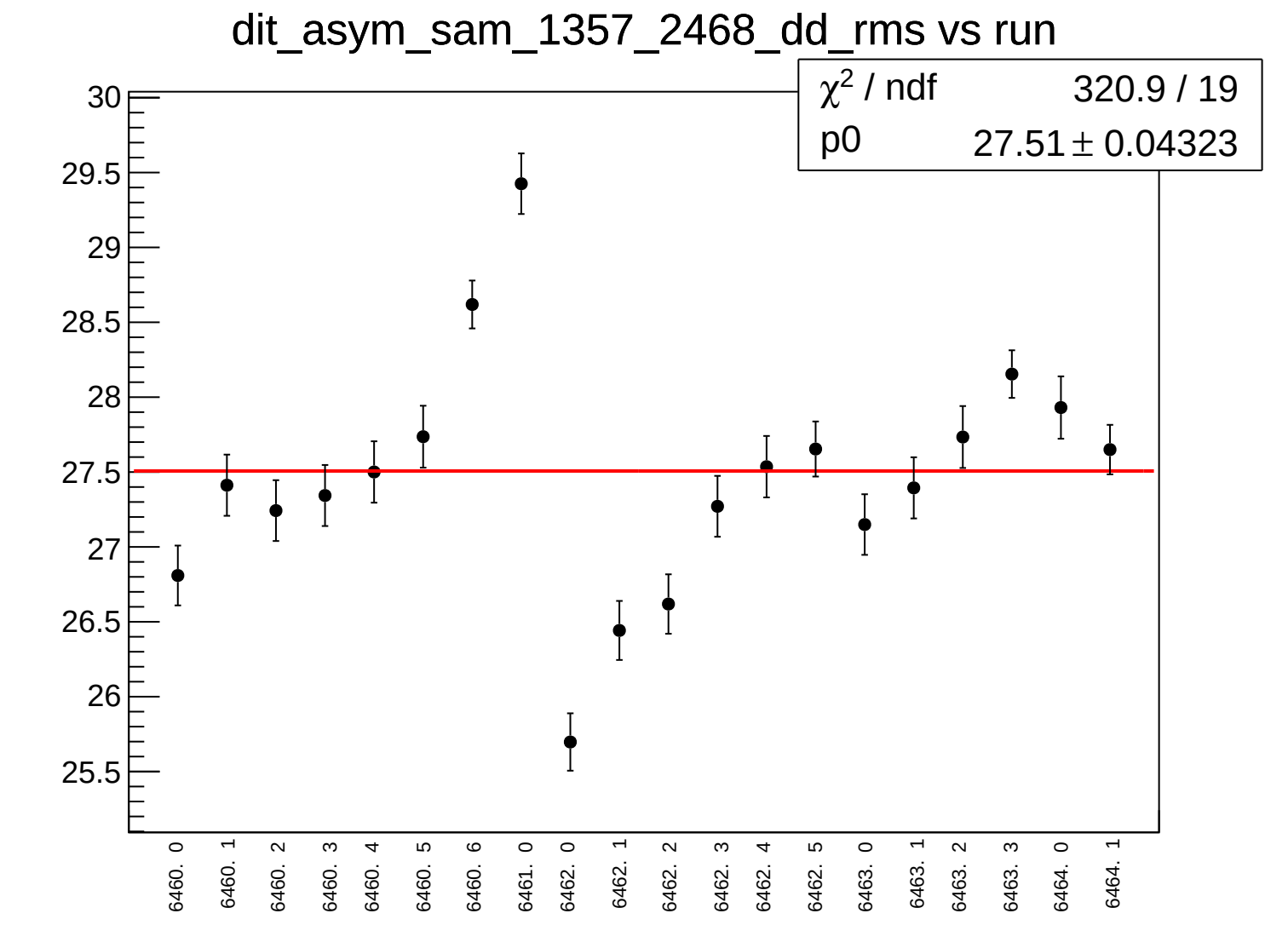

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 321 / 19
p0 20.17 ± 0.0317
22
21.5
21
20.5
20
19.5
19
18.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

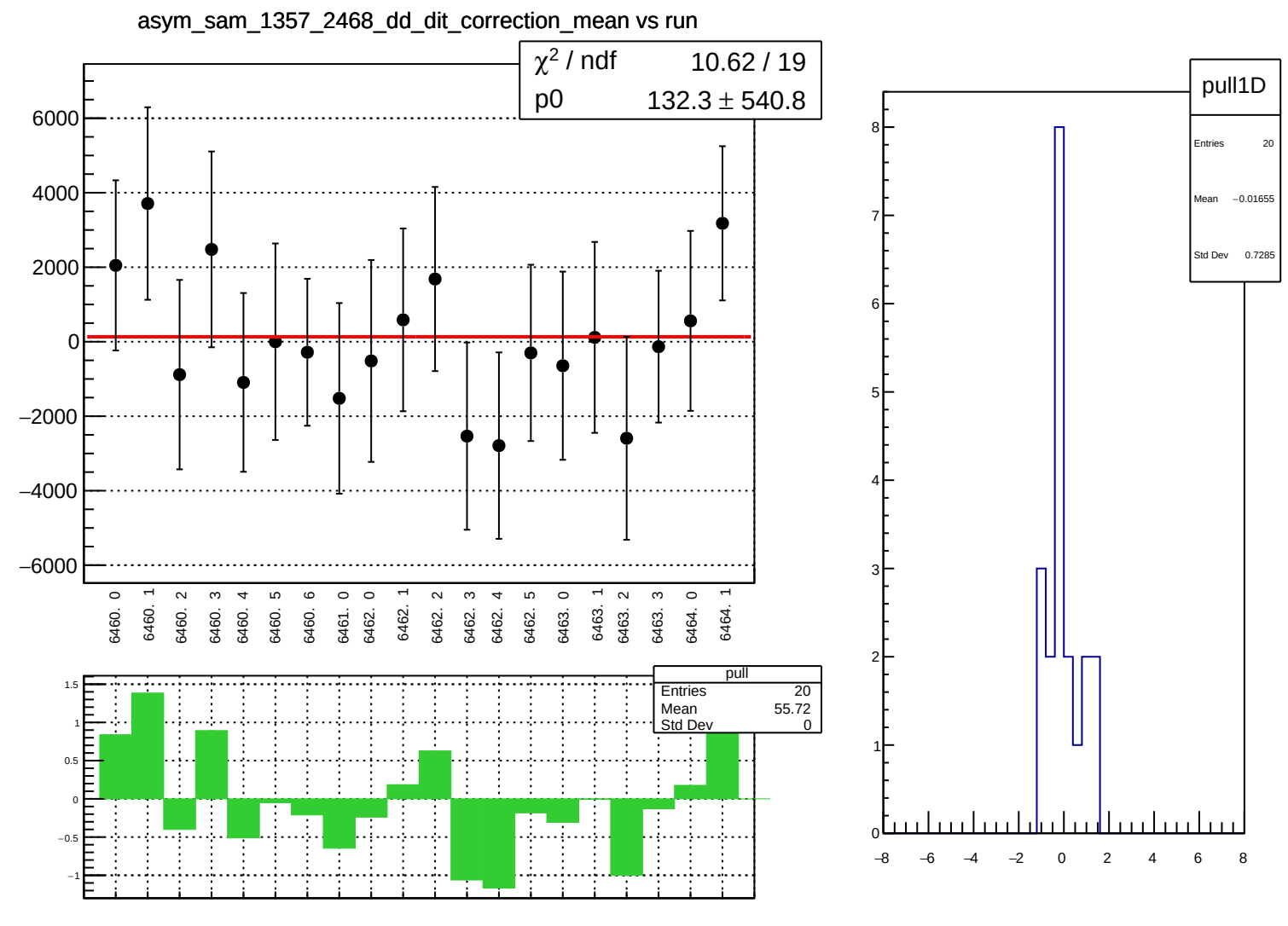

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 10.54 / 19
p0 144.8 ± 523.8
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.0133
Std Dev 0.7257
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

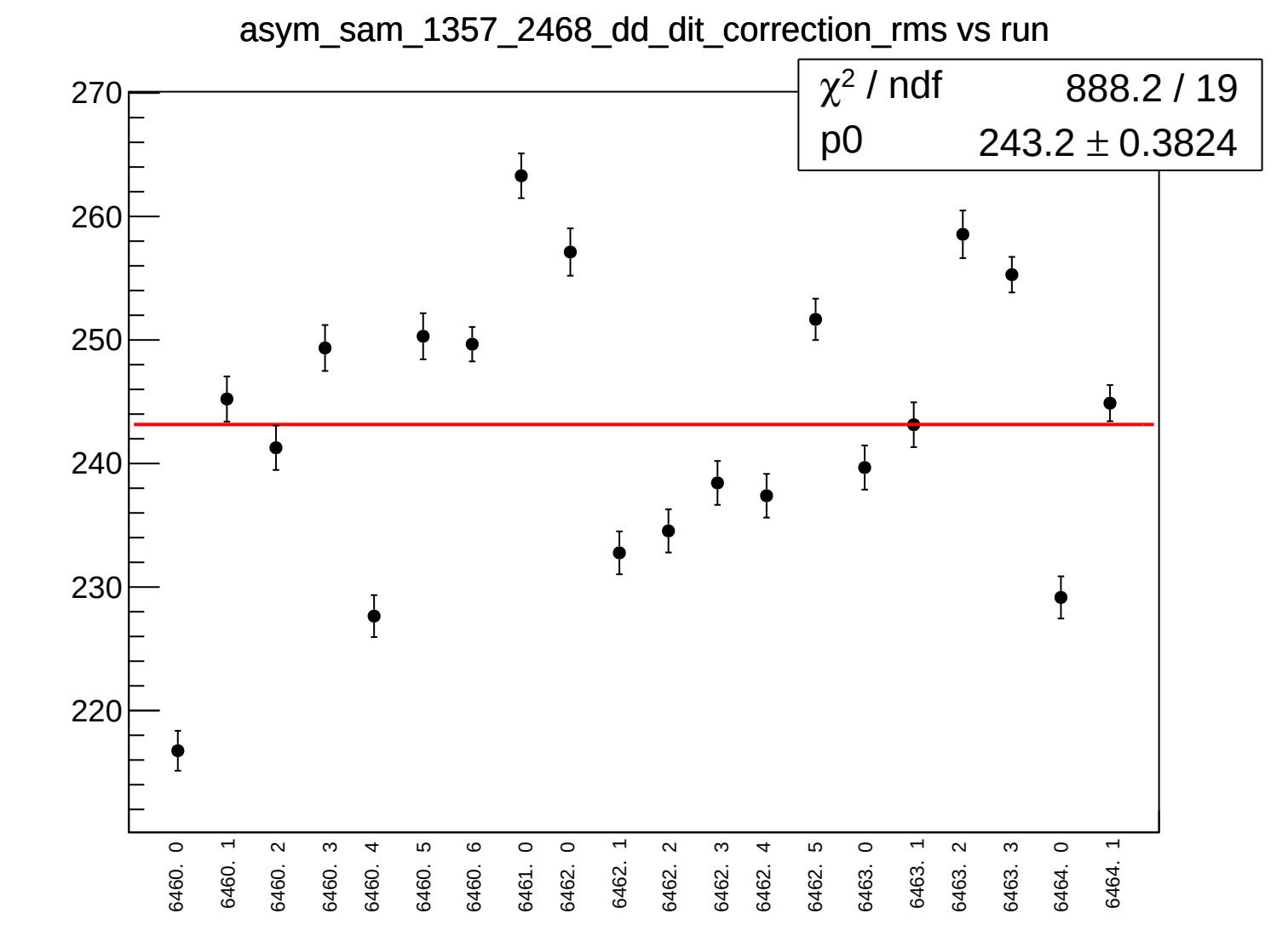

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 961.8 / 19
p0 235.5 ± 0.3704
260
250
240
230
220
210
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

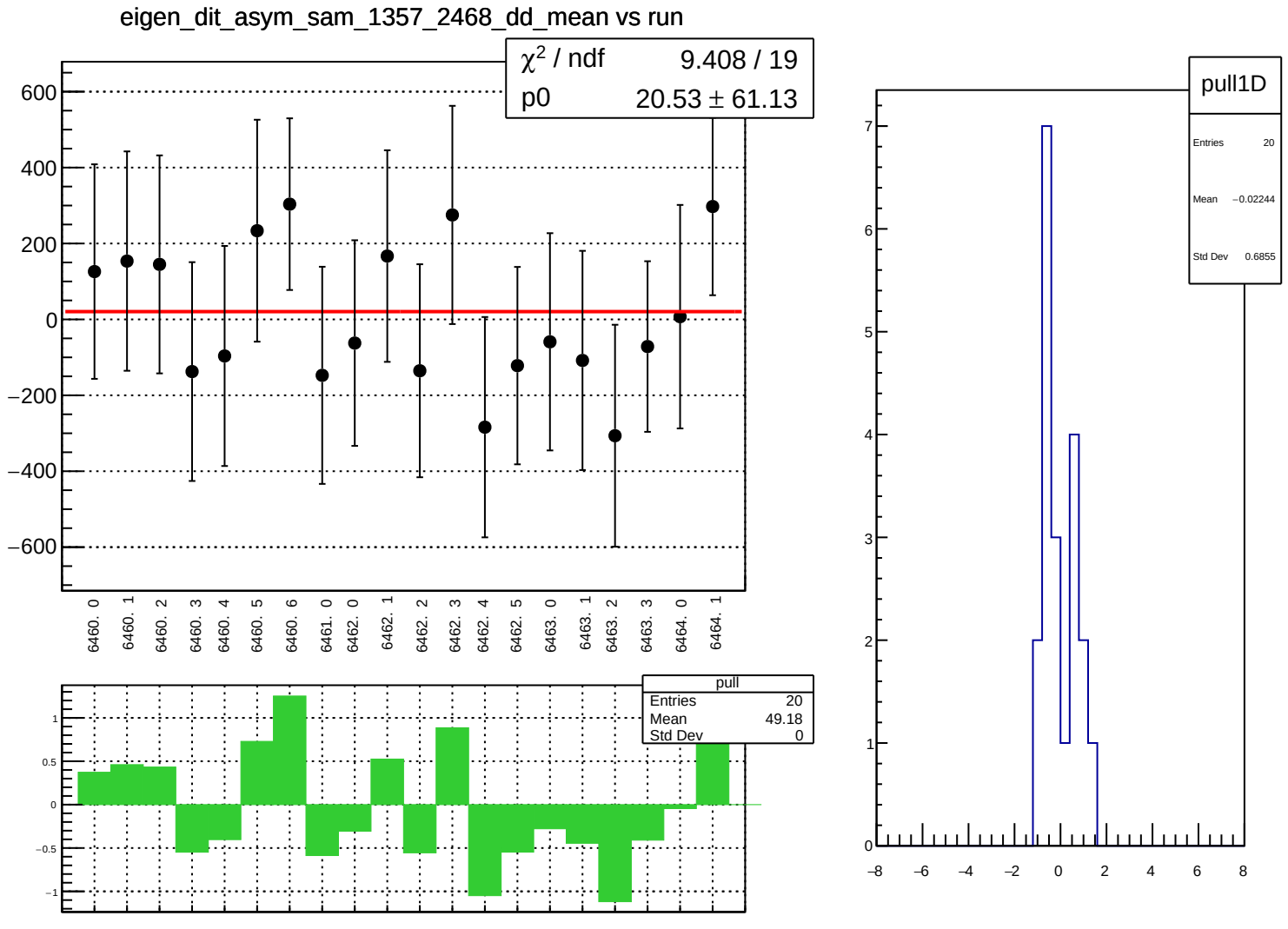

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 9.407 / 19
p0 20.53 ± 61.14
600
400
200
0
−200
−400
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 49.19
Std Dev 0
1
0.5
0
−0.5
−1

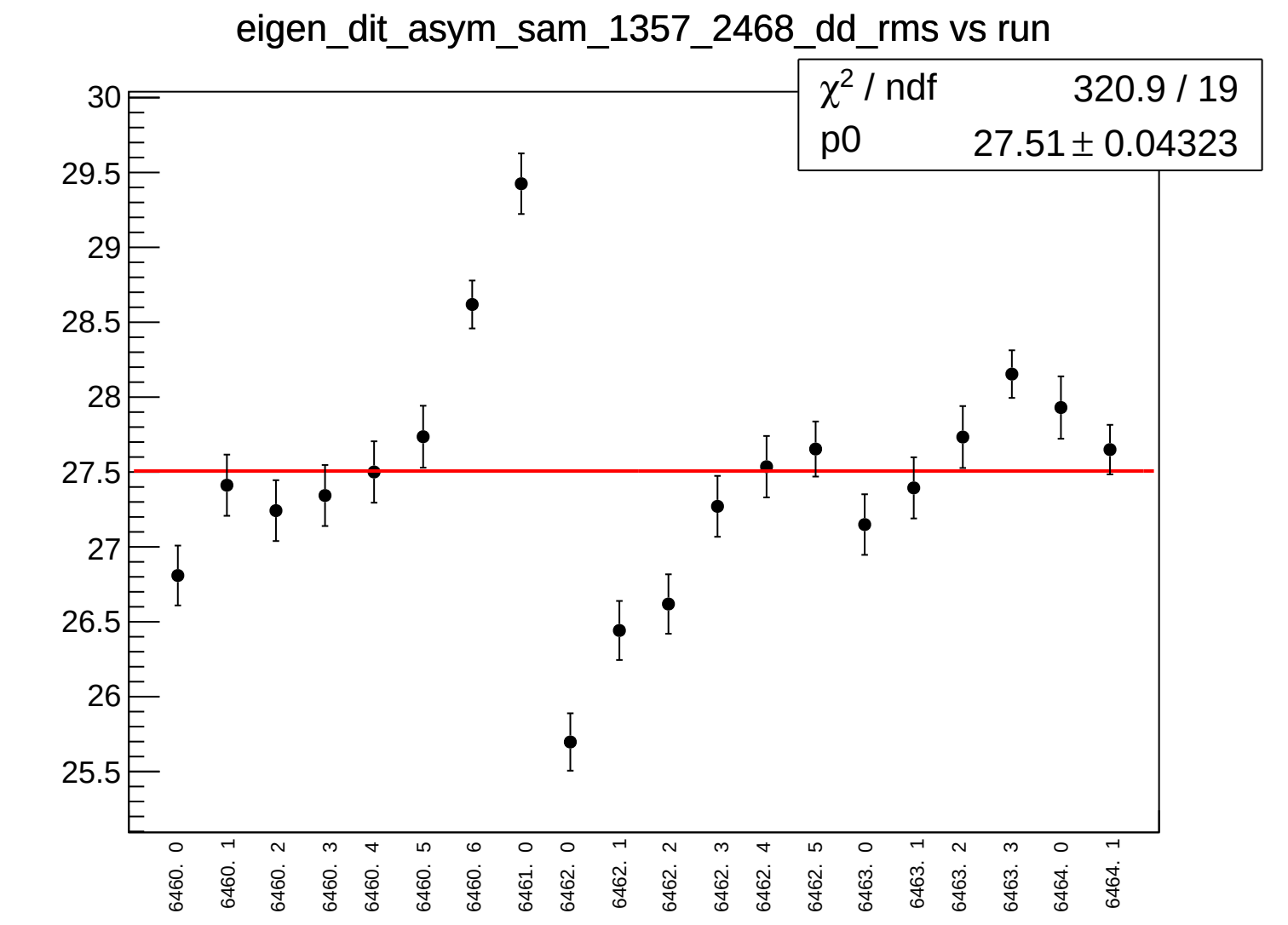

pull1D
Entries 20
Mean −0.02244
Std Dev 0.6855
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

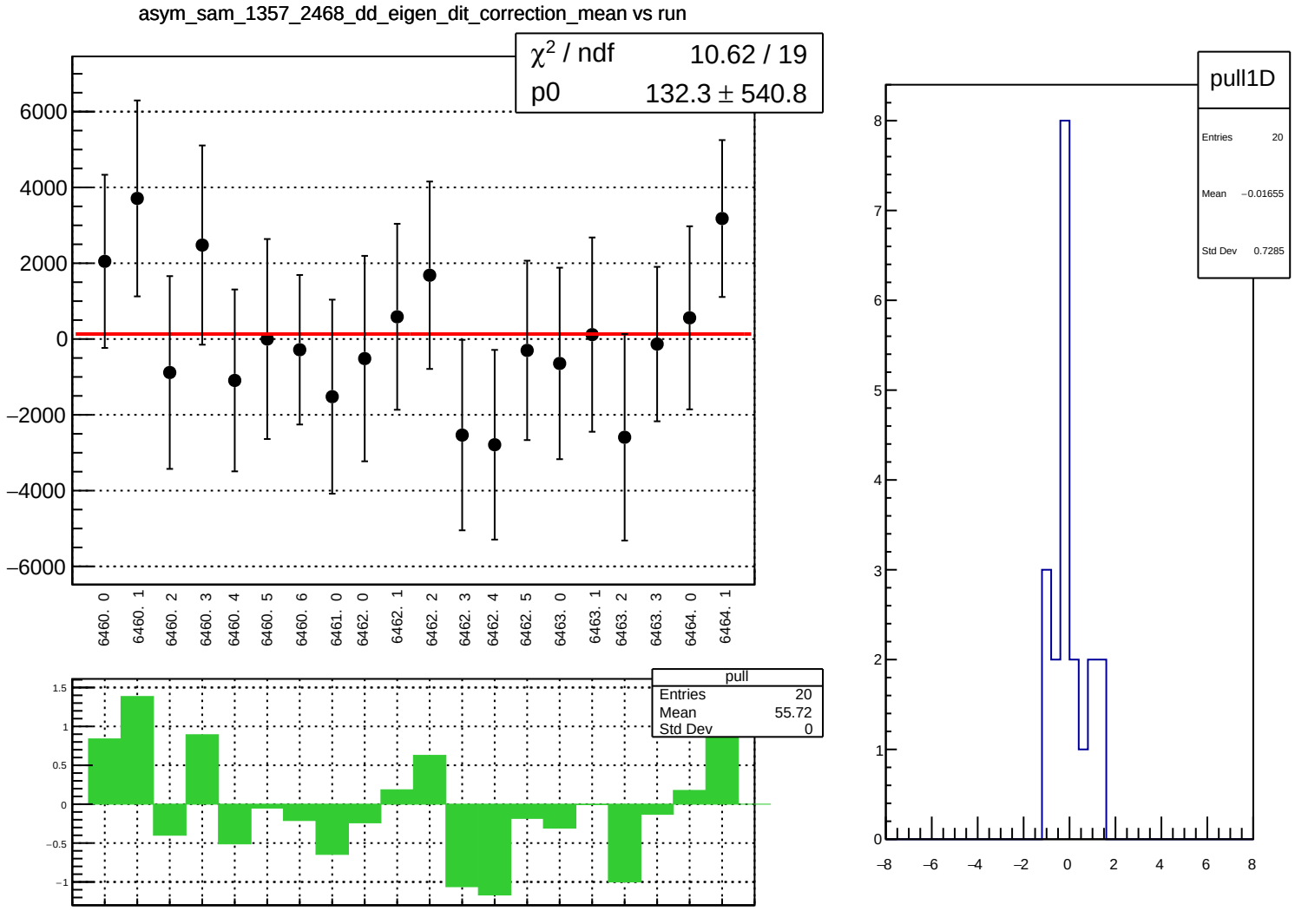

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 320.9 / 19
p0 27.51 ± 0.04323
30
29.5
29
28.5
28
27.5
27
26.5
26
25.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

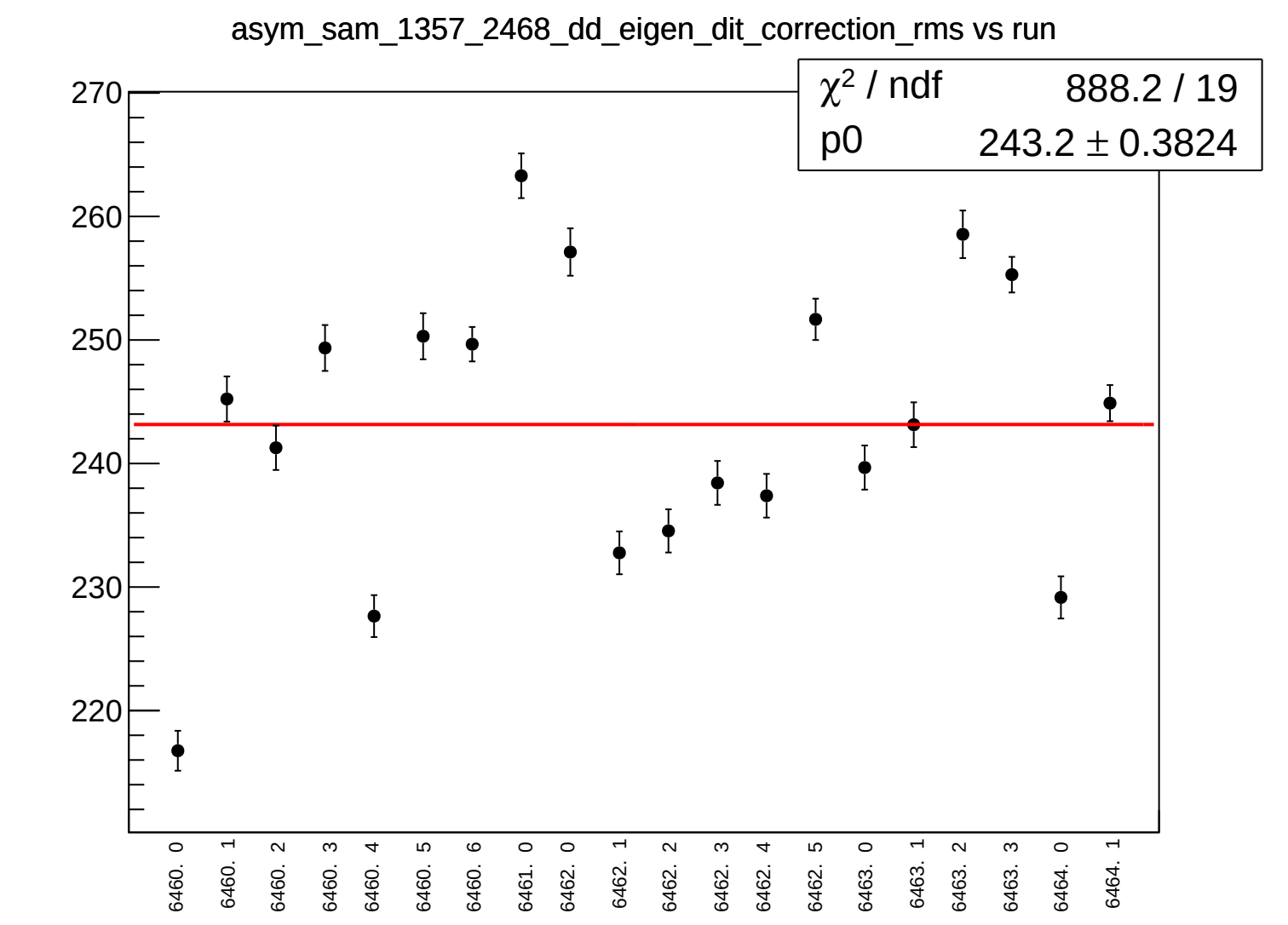

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 10.62 / 19
p0 132.3 ± 540.8
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 55.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01655
Std Dev 0.7285
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

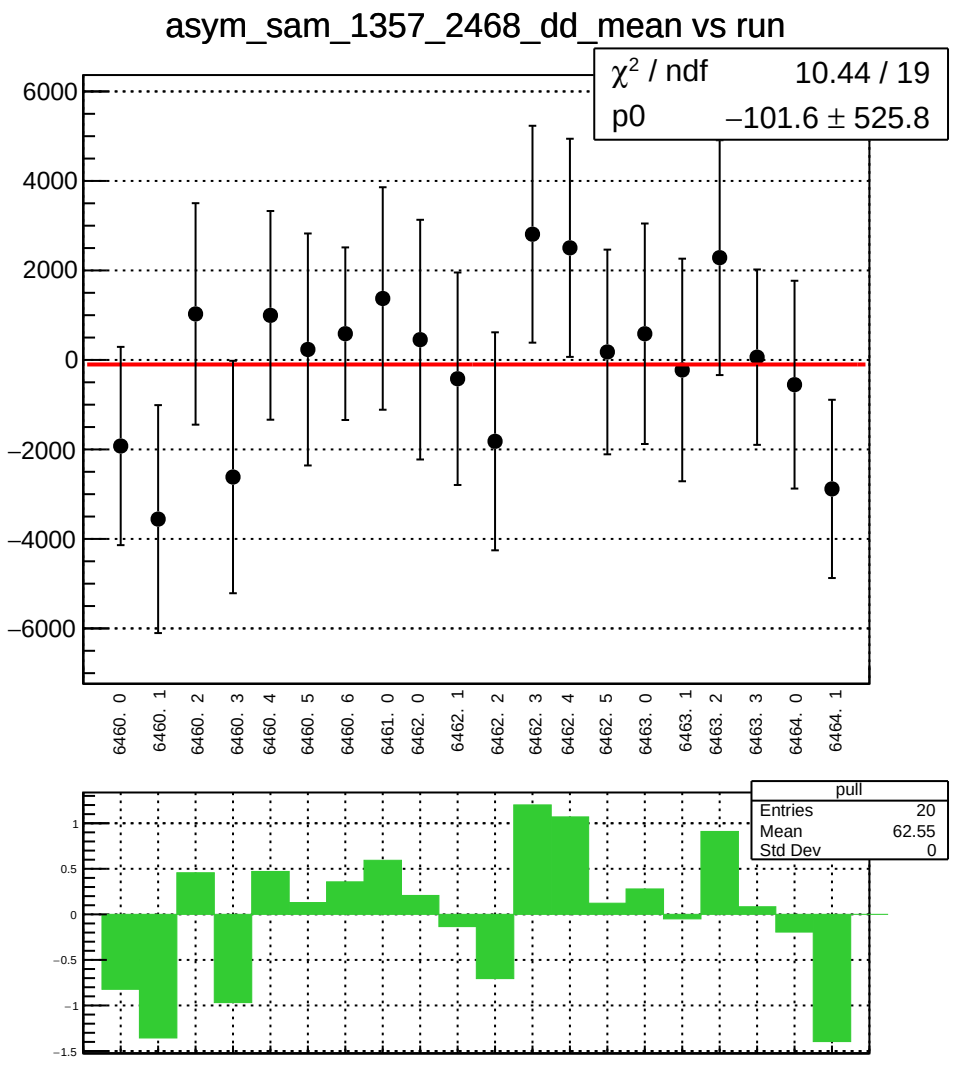

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 888.2 / 19
p0 243.2 ± 0.3824
270
260
250
240
230
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

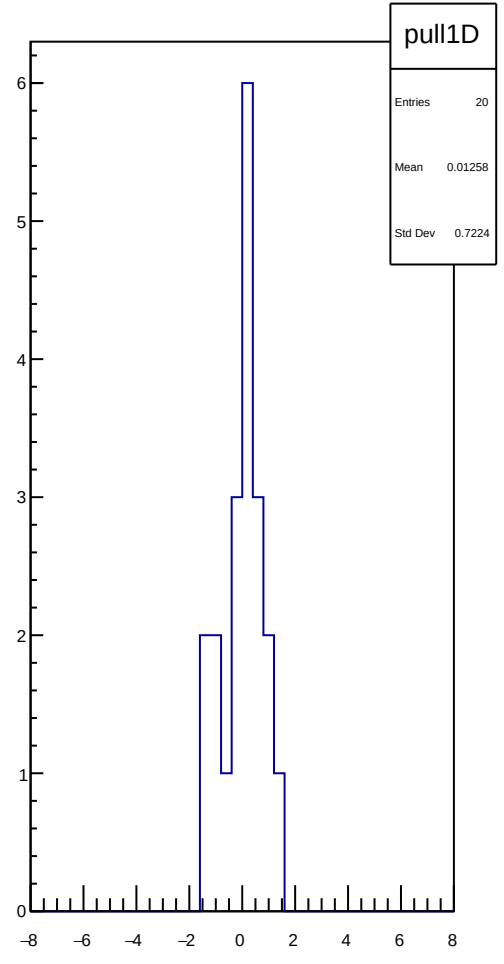

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 9.408 / 19
p0 20.53 ± 61.13
600
400
200
0
−200
−400
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 49.18
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02244
Std Dev 0.6855
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

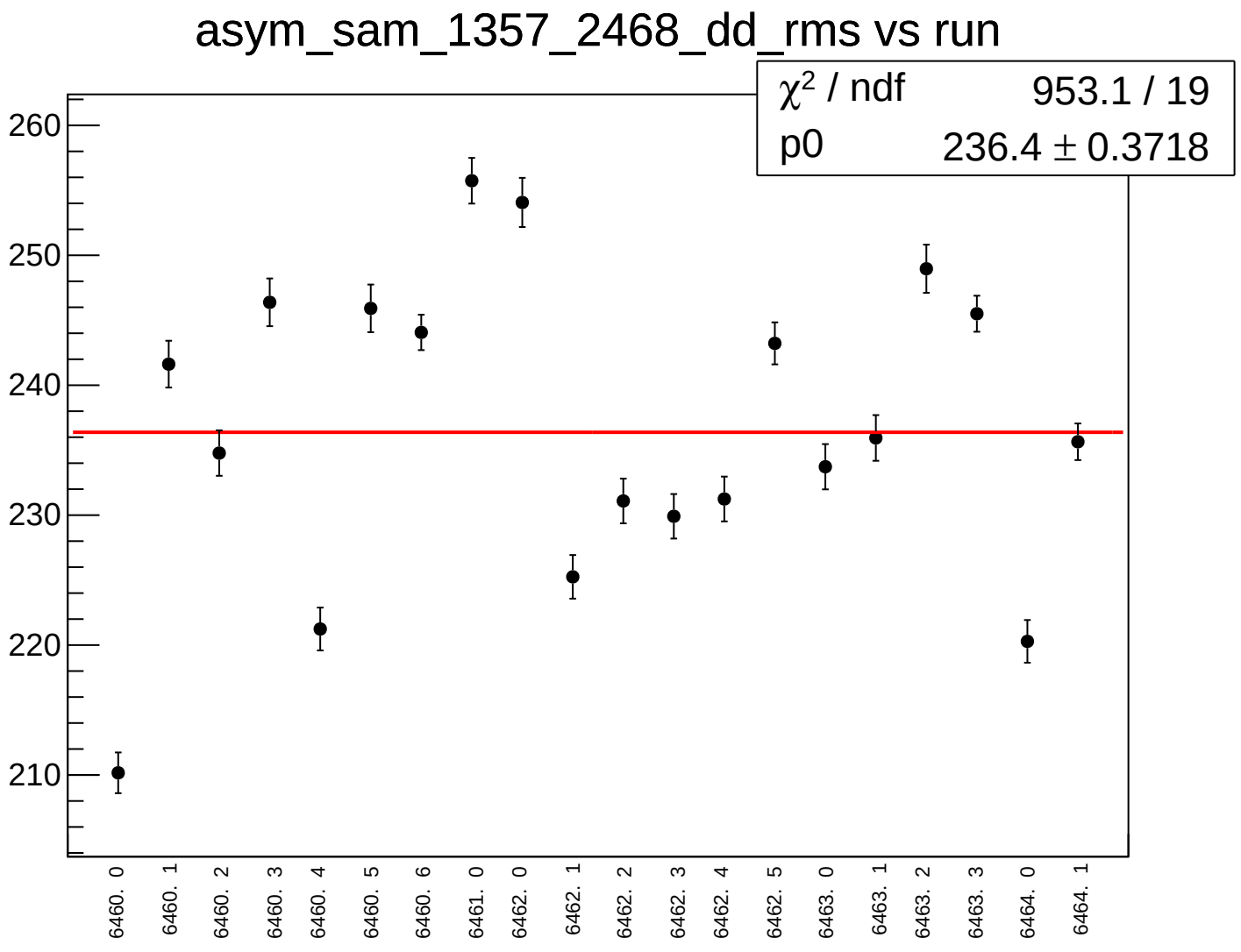

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 320.9 / 19
p0 27.51 ± 0.04323
30
29.5
29
28.5
28
27.5
27
26.5
26
25.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

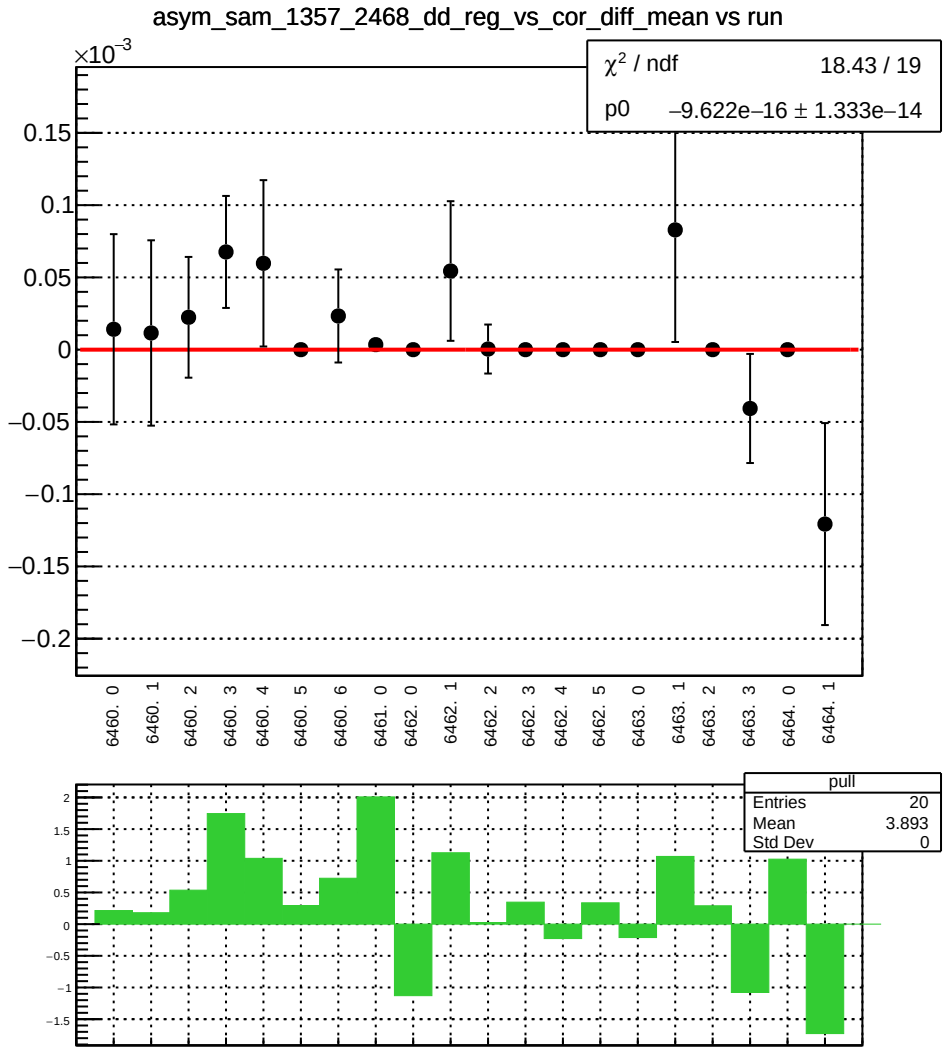

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 10.62 / 19
p0 132.3 ± 540.8
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 55.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01655
Std Dev 0.7285
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

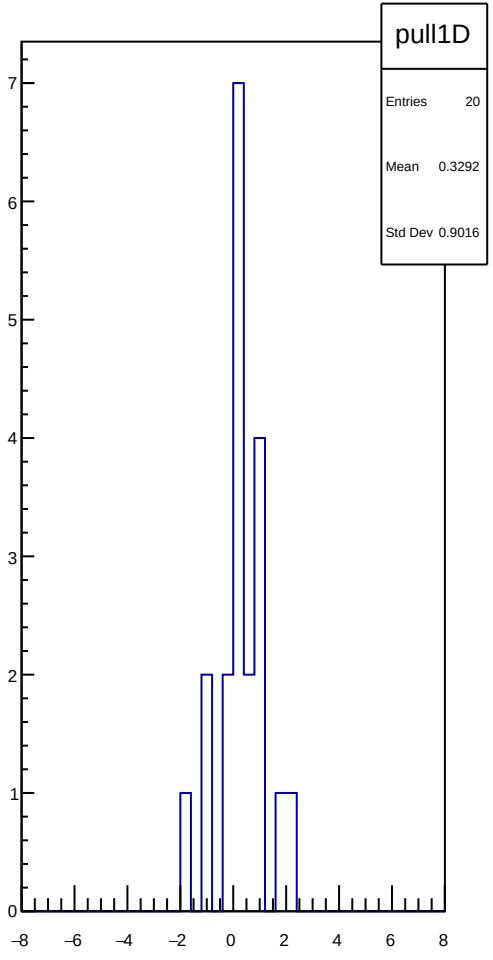

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 888.2 / 19
p0 243.2 ± 0.3824
270
260
250
240
230
220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

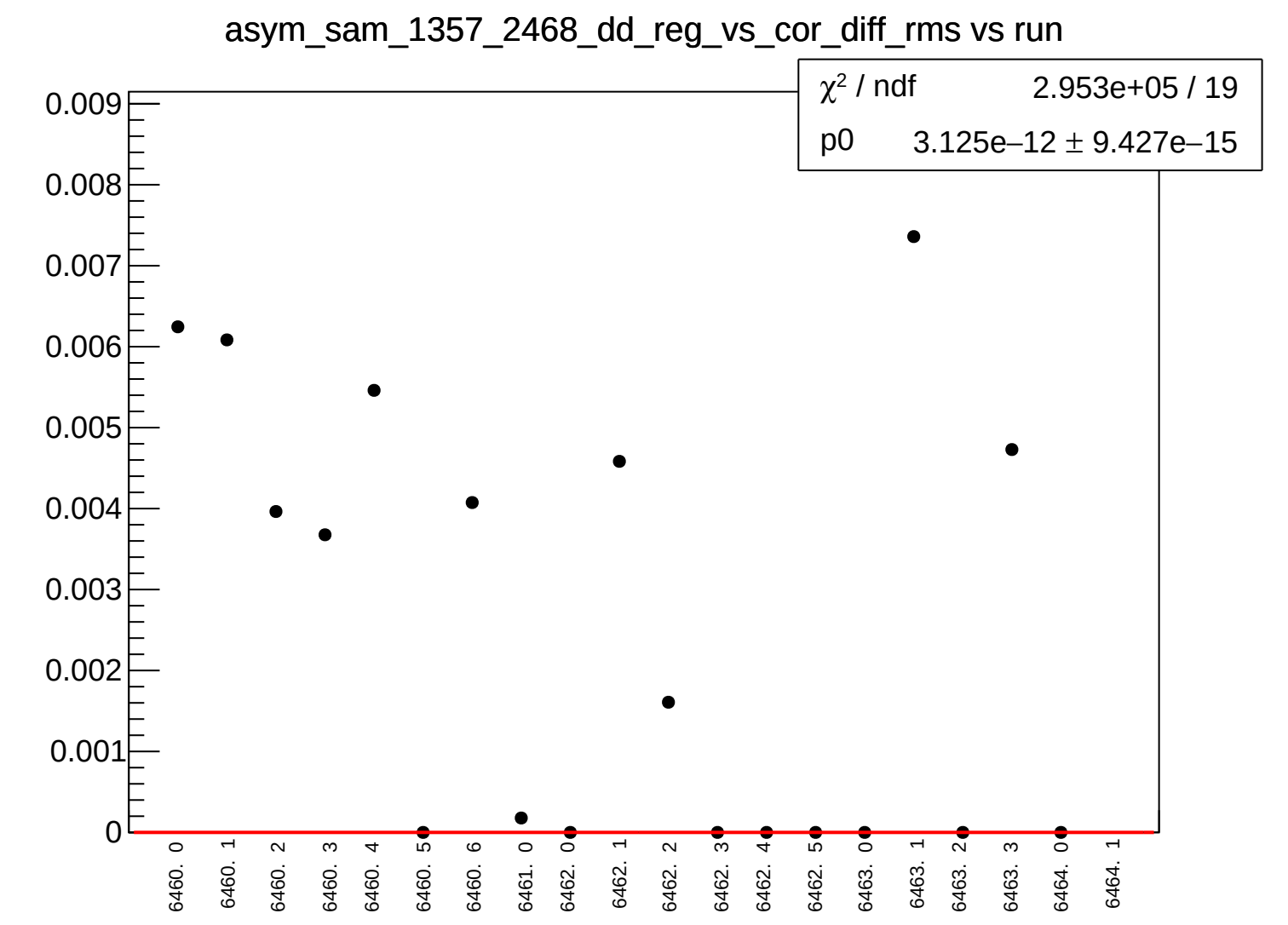

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 10.44 / 19
p0 −101.6 ± 525.8
6000
4000
2000
0
−2000
−4000
−6000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 62.55
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

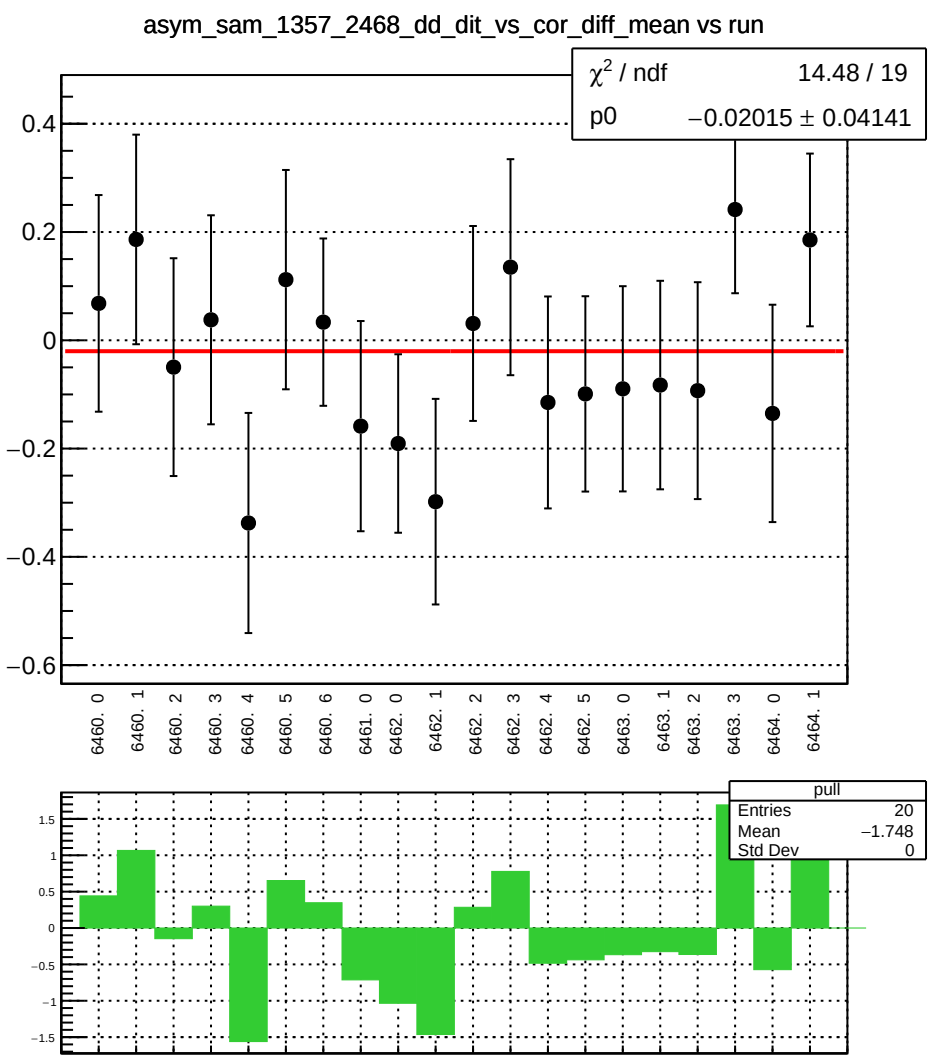

pull1D
Entries 20
Mean 0.01258
Std Dev 0.7224
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

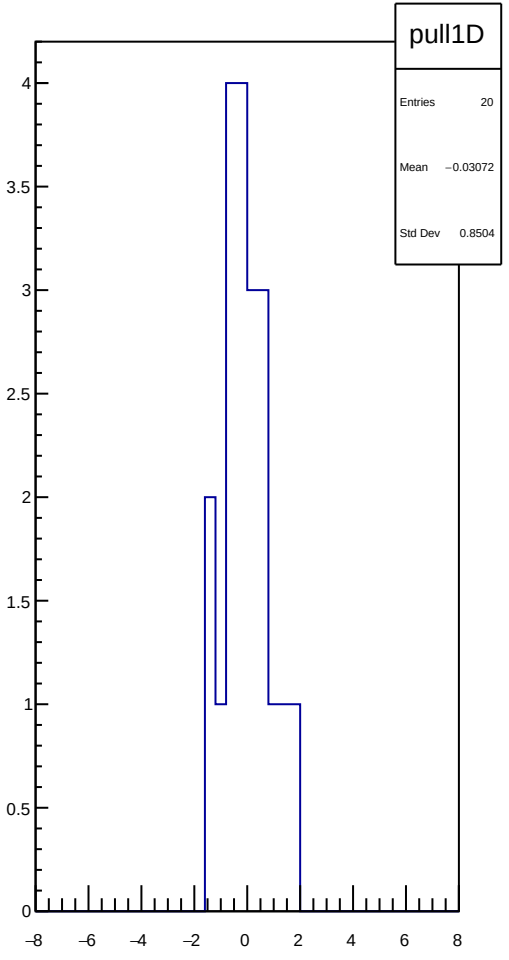

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 953.1 / 19
p0 236.4 ± 0.3718
260
250
240
230
220
210
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

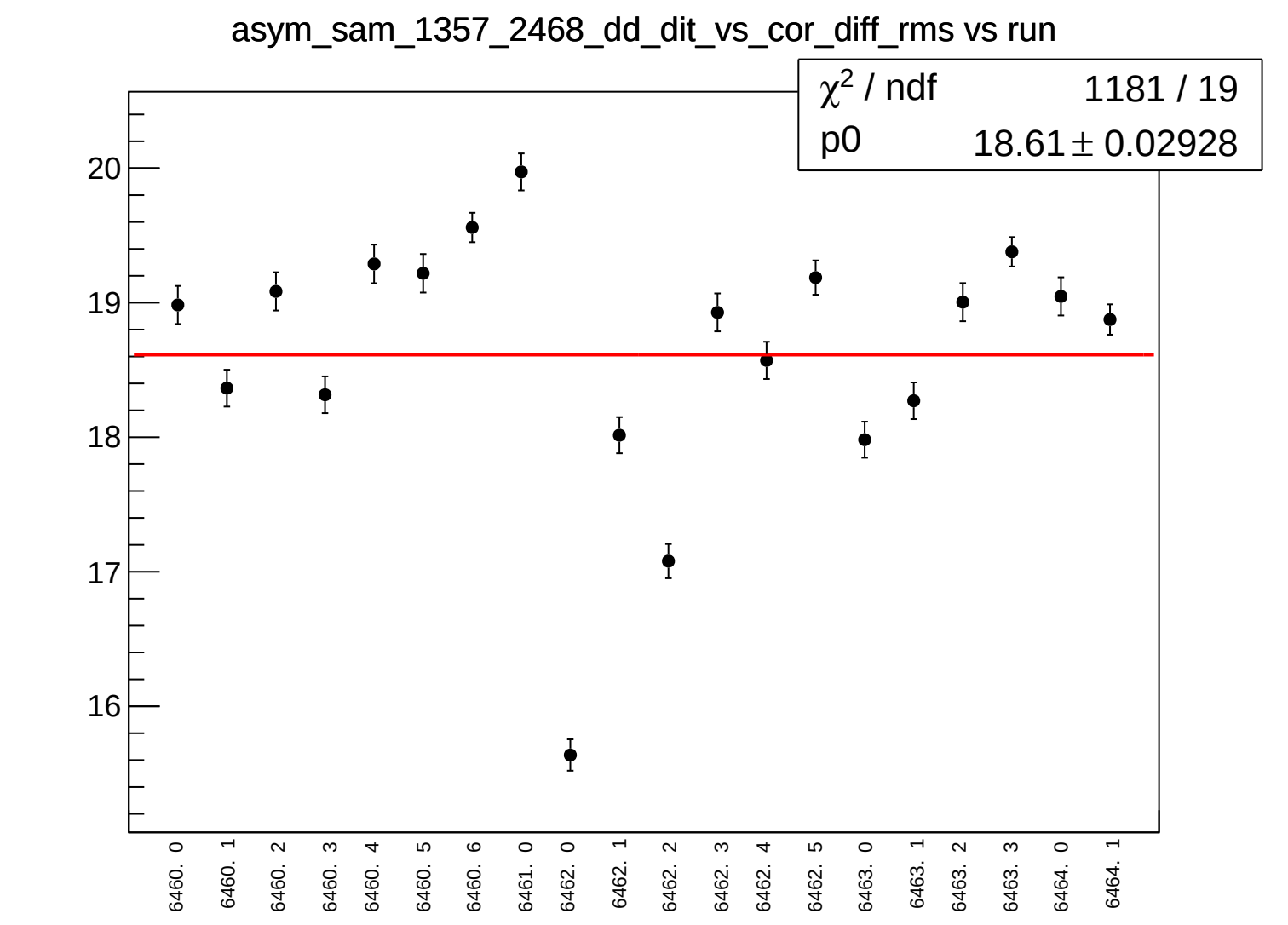

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 18.43 / 19
p0 −9.622e−16 ± 1.333e−14
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3.893
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

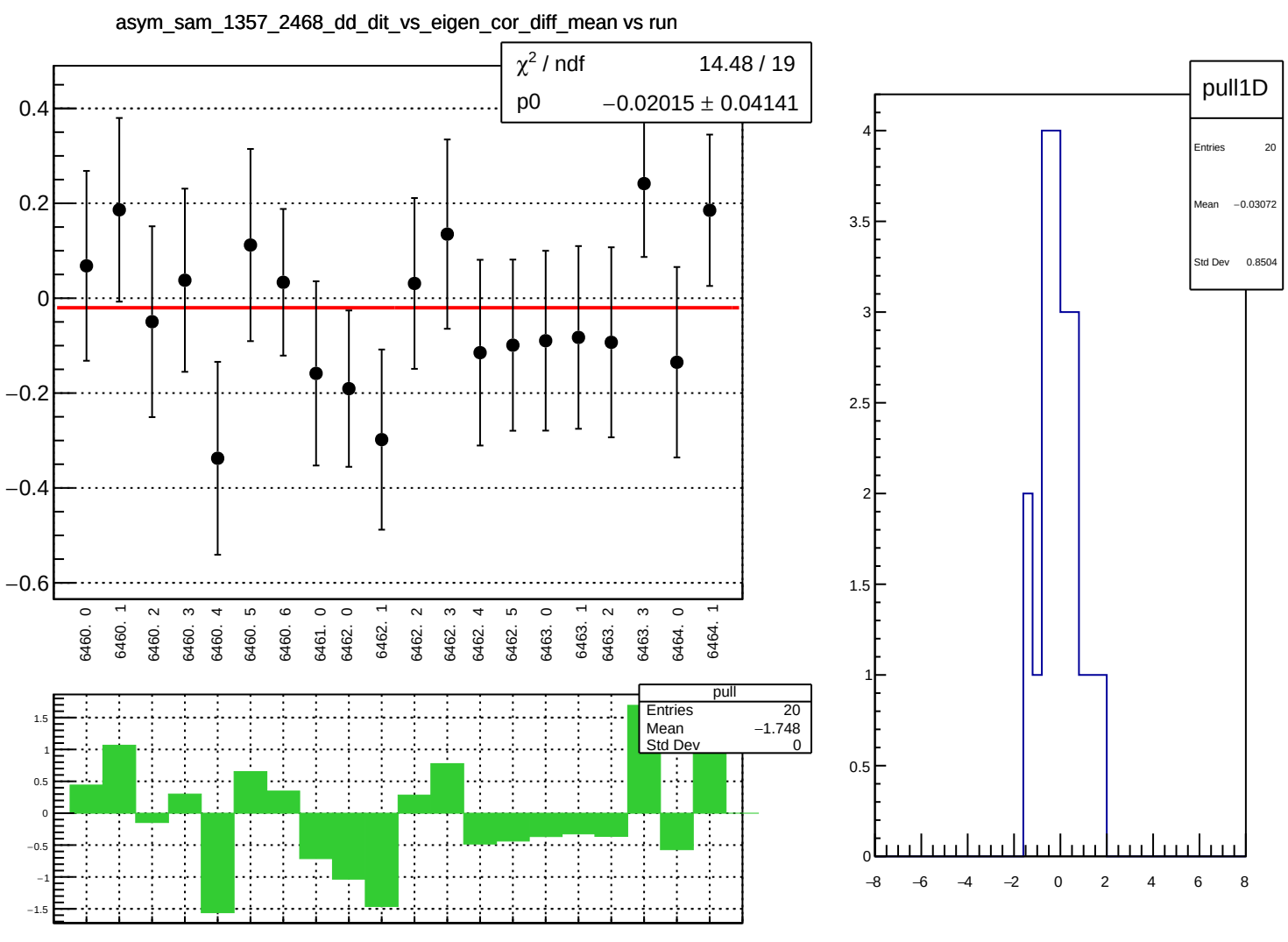

pull1D
Entries 20
Mean 0.3292
Std Dev 0.9016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

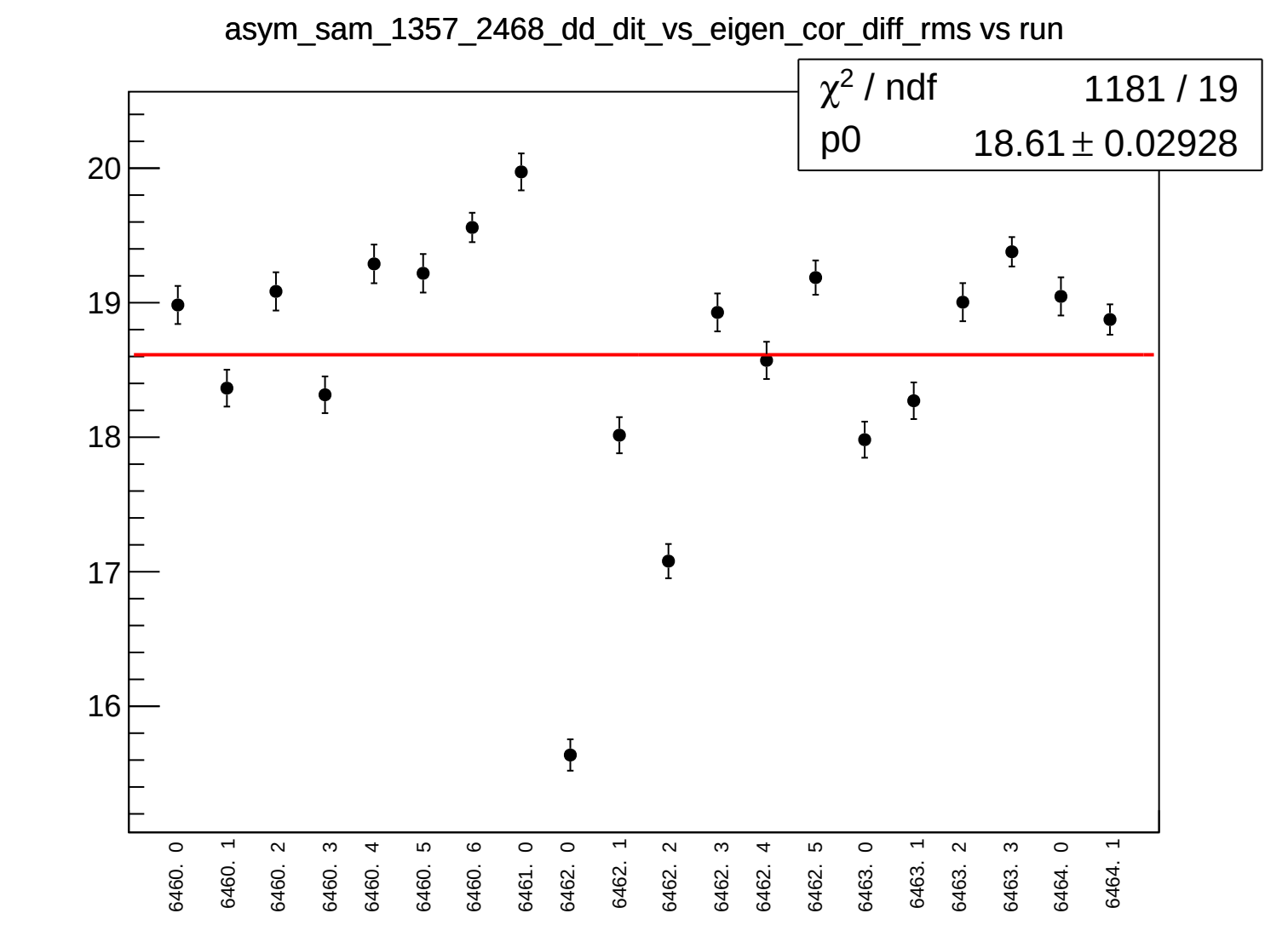

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.953e+05 / 19
p0 3.125e−12 ± 9.427e−15
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

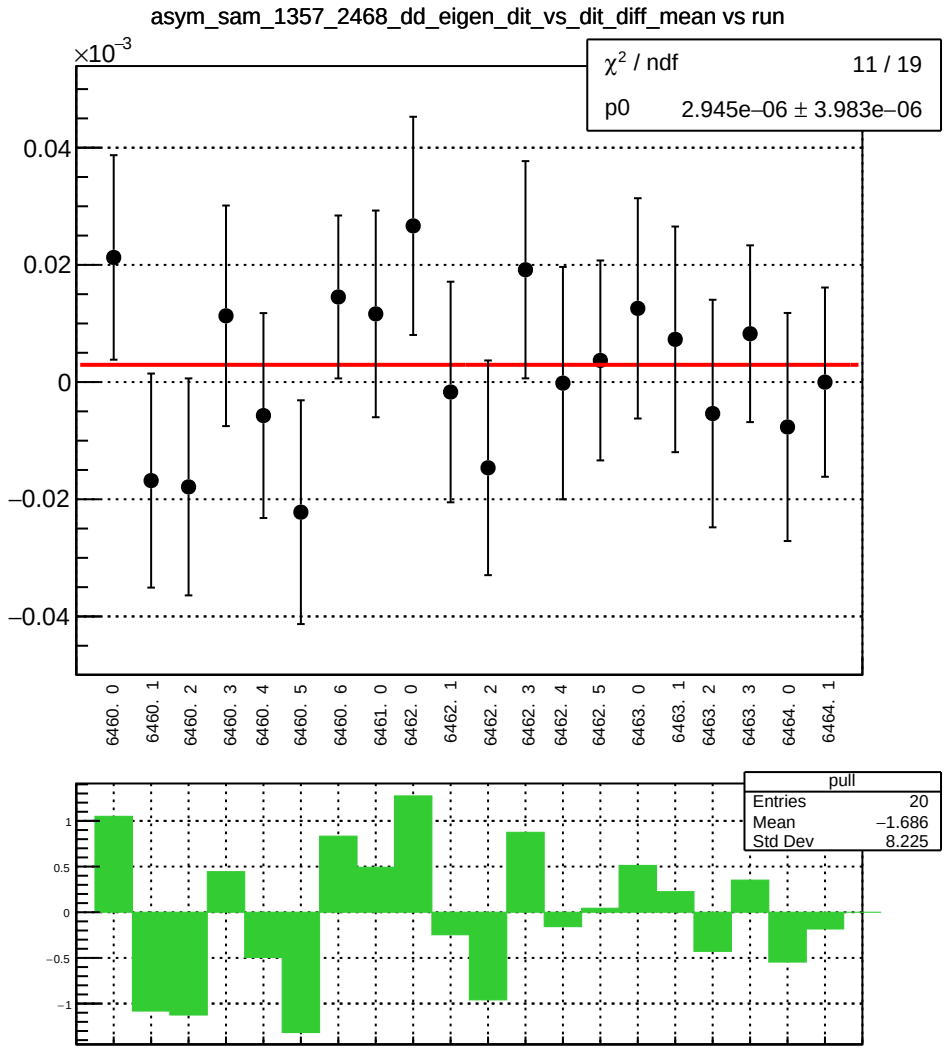

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 14.48 / 19
p0 −0.02015 ± 0.04141
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.748
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

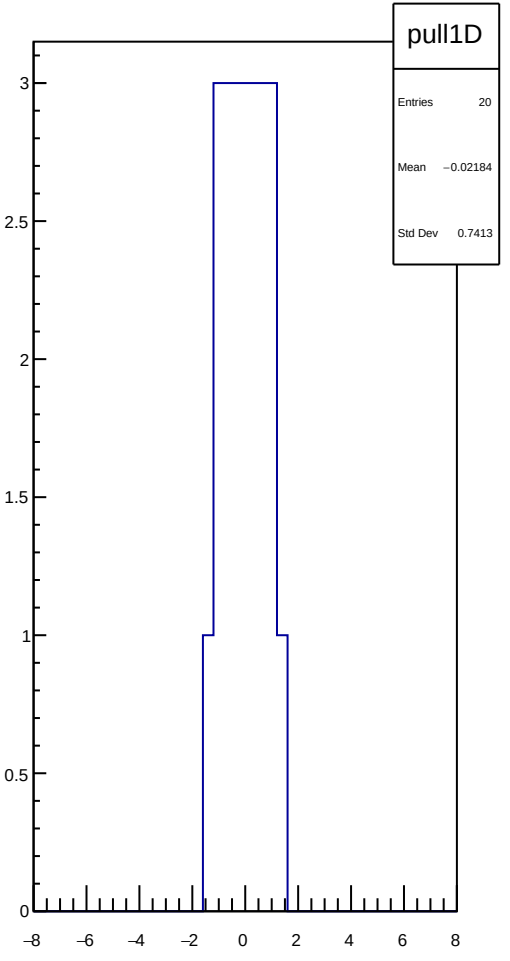

pull1D
Entries 20
Mean −0.03072
Std Dev 0.8504
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

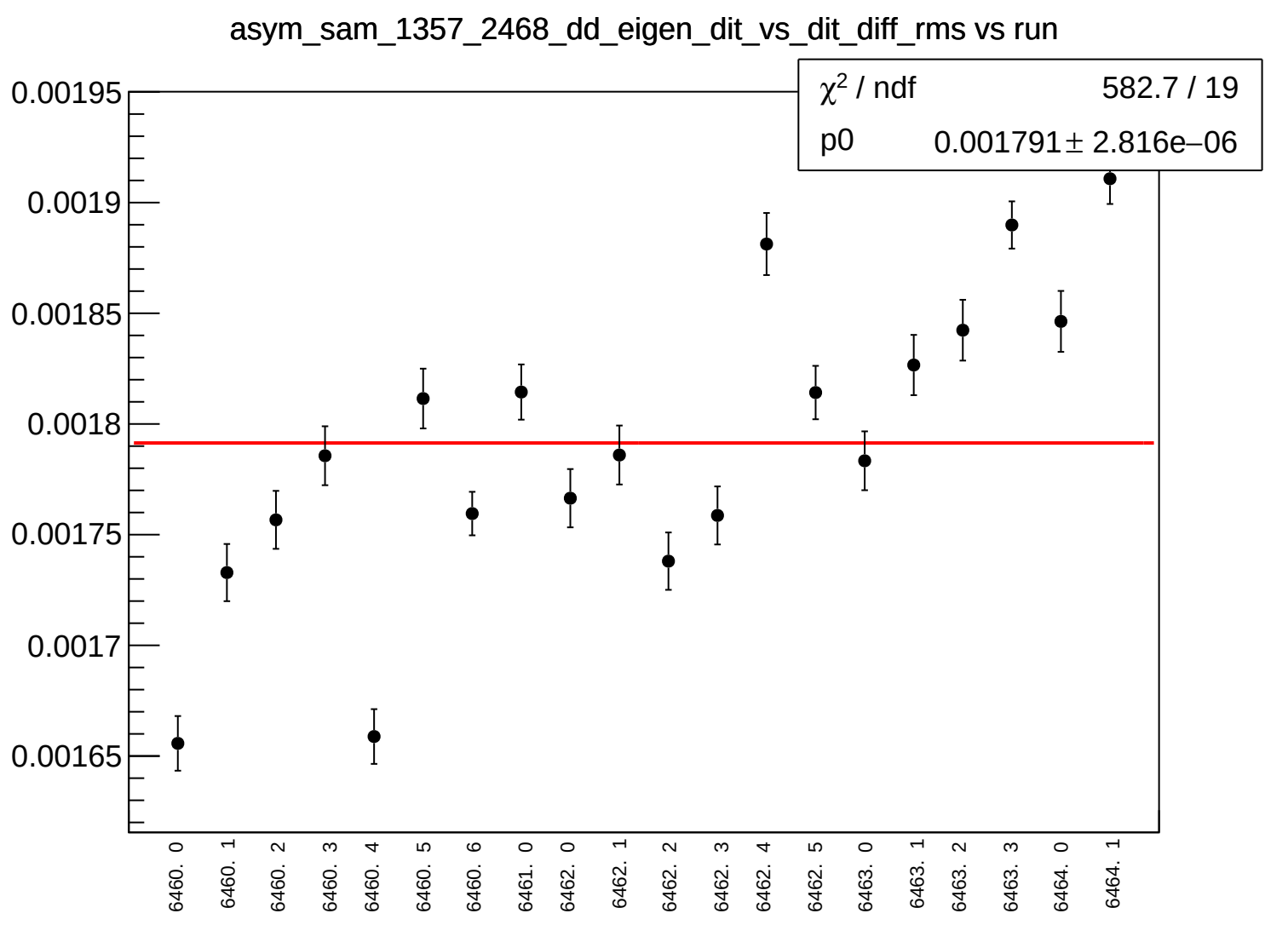

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1181 / 19
p0 18.61 ± 0.02928
20
19
18
17
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

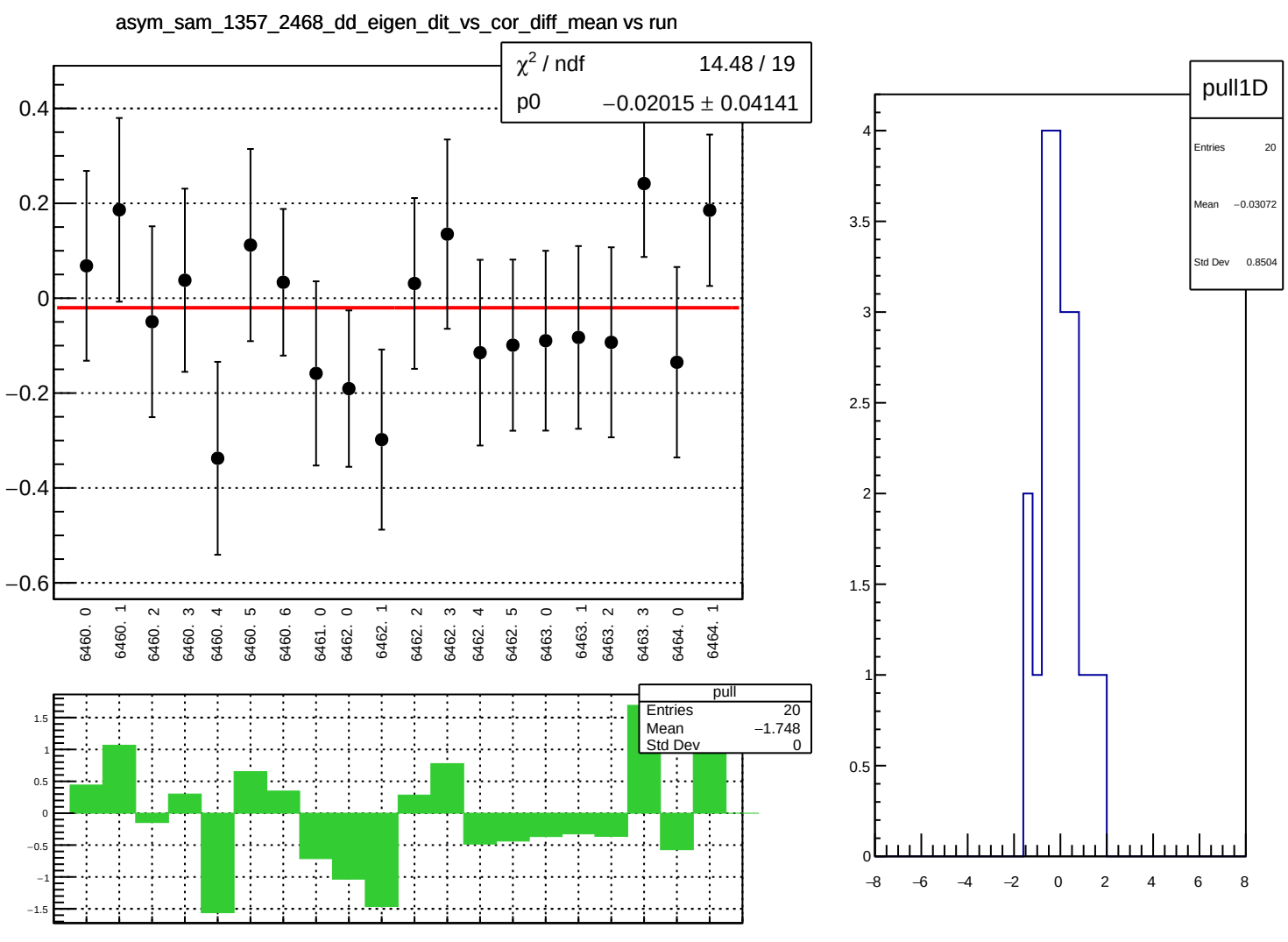

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.48 / 19
p0 −0.02015 ± 0.04141
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.748
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03072
Std Dev 0.8504
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

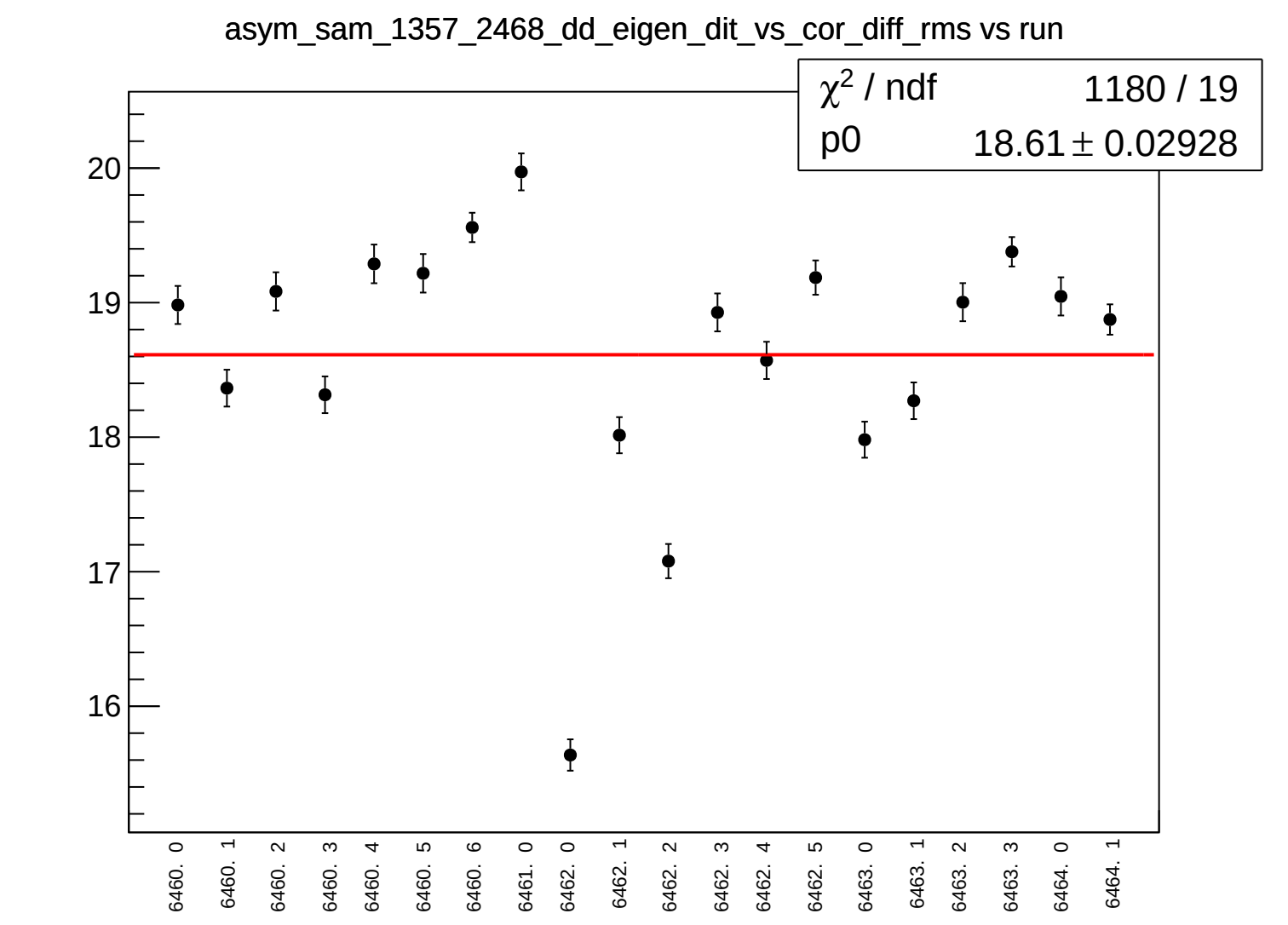

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1181 / 19
p0 18.61 ± 0.02928
20
19
18
17
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

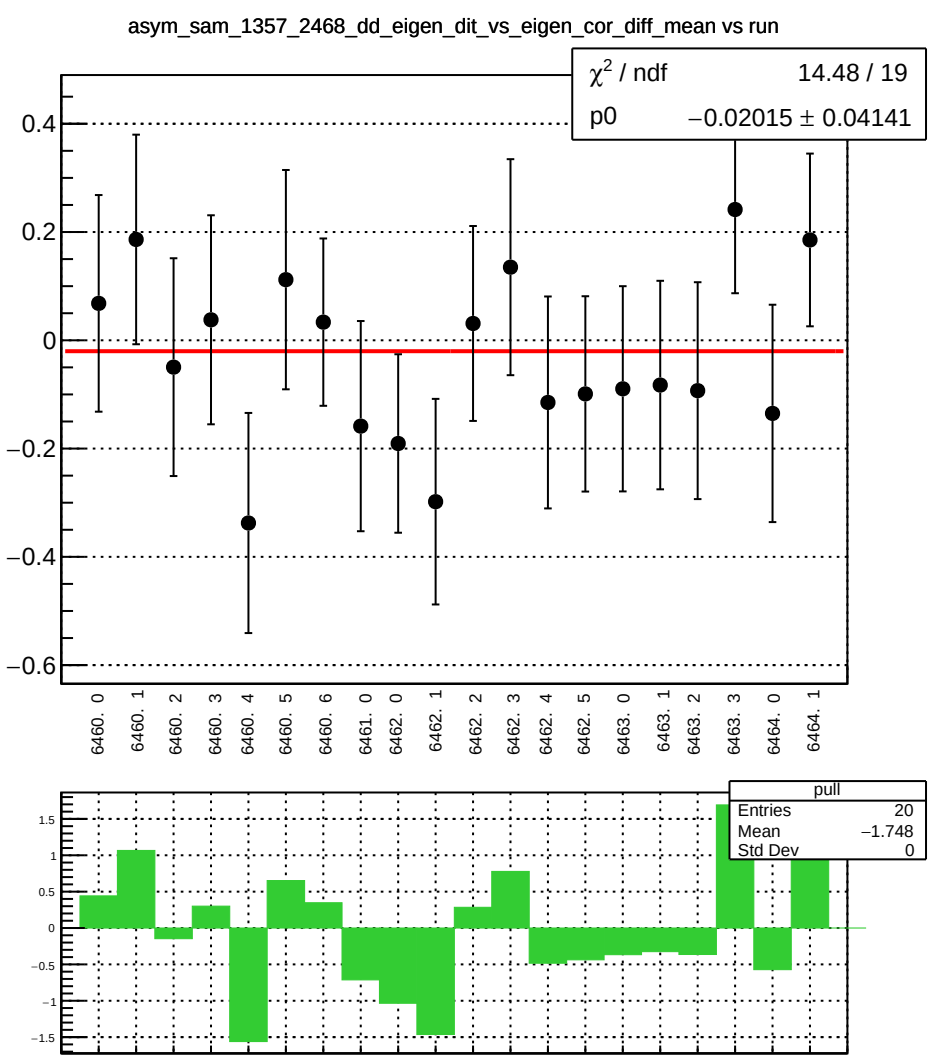

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11 / 19
p0 2.945e−06 ± 3.983e−06
0.04
0.02
0
−0.02
−0.04
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.686
Std Dev 8.225
1
0.5
0
−0.5
−1

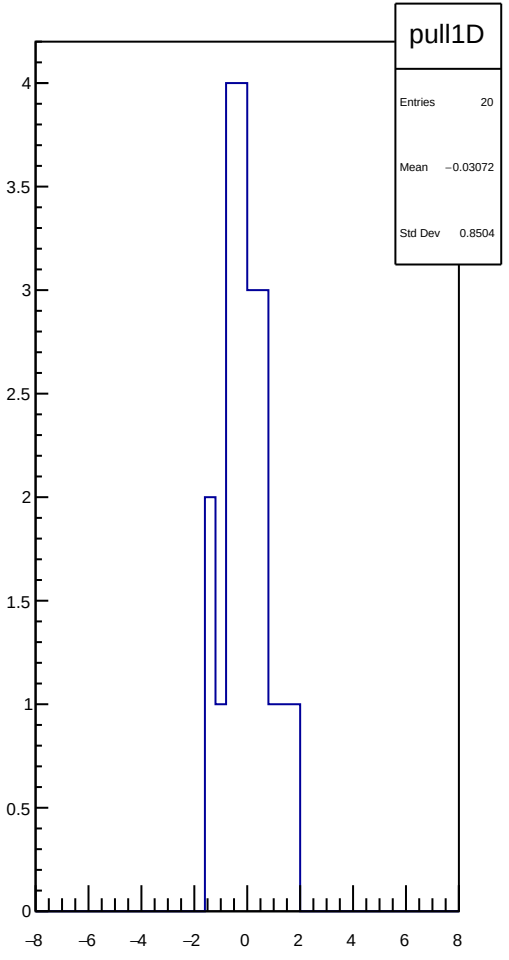

pull1D
Entries 20
Mean −0.02184
Std Dev 0.7413
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

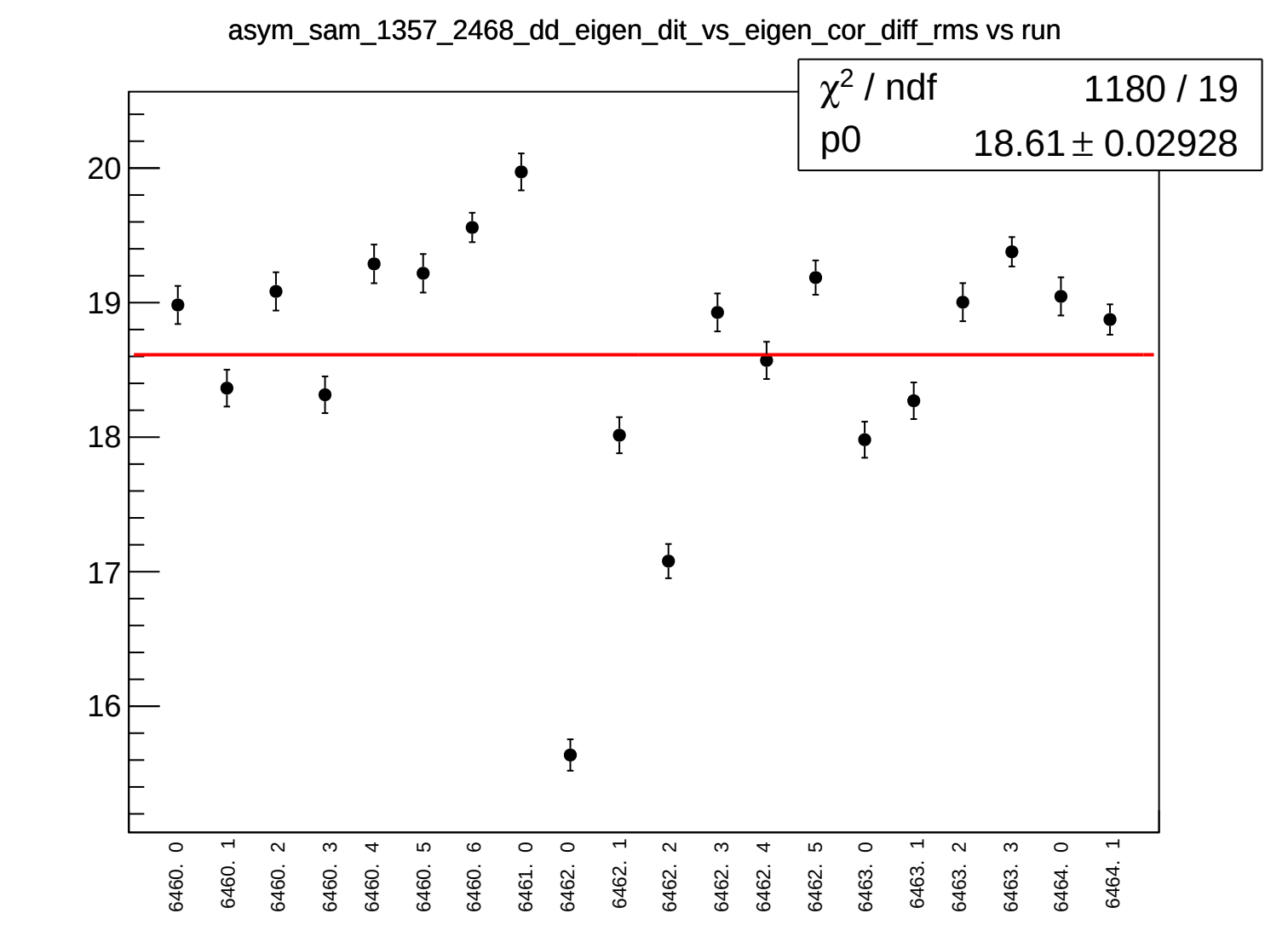

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 582.7 / 19
p0 0.001791 ± 2.816e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

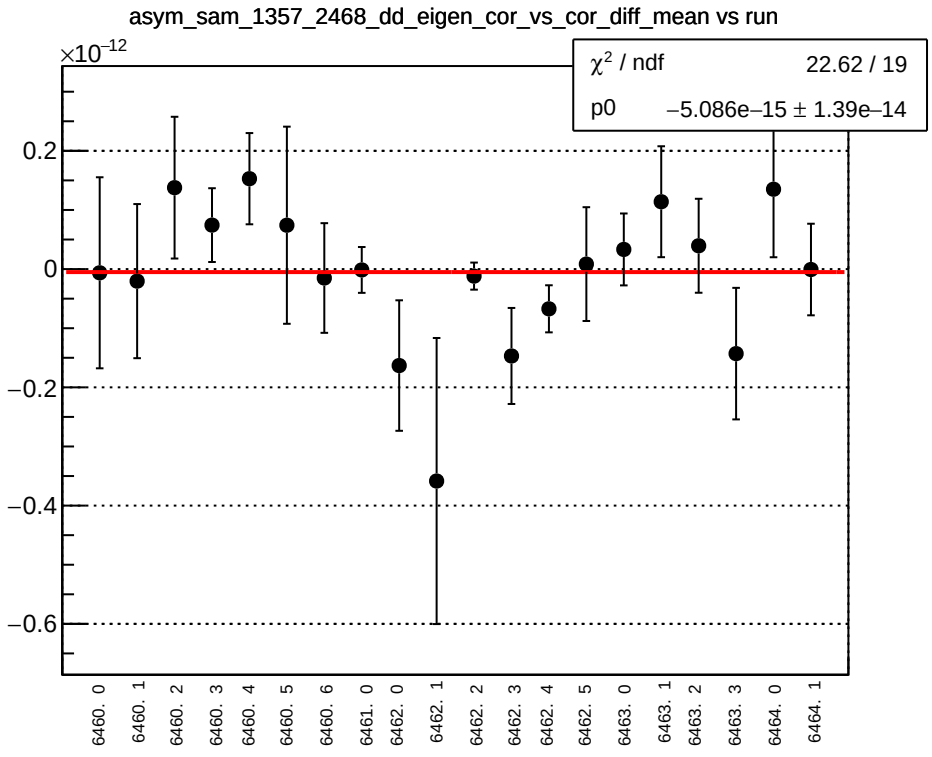

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 14.48 / 19
p0 −0.02015 ± 0.04141
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.748
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.03072
Std Dev 0.8504
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

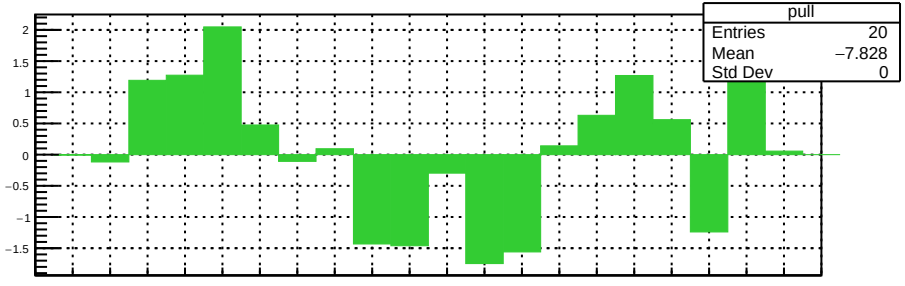

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1180 / 19
p0 18.61 ± 0.02928
20
19
18
17
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

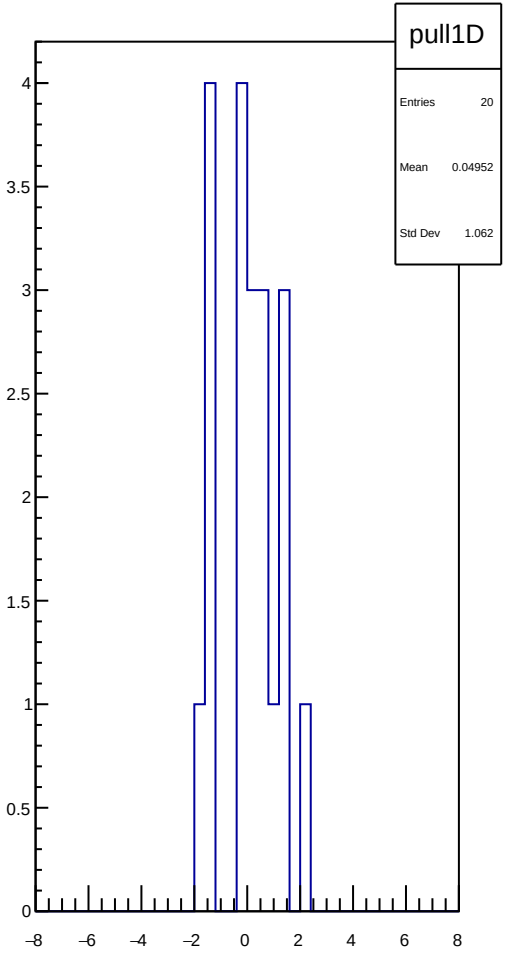

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.48 / 19
p0 −0.02015 ± 0.04141
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.748
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

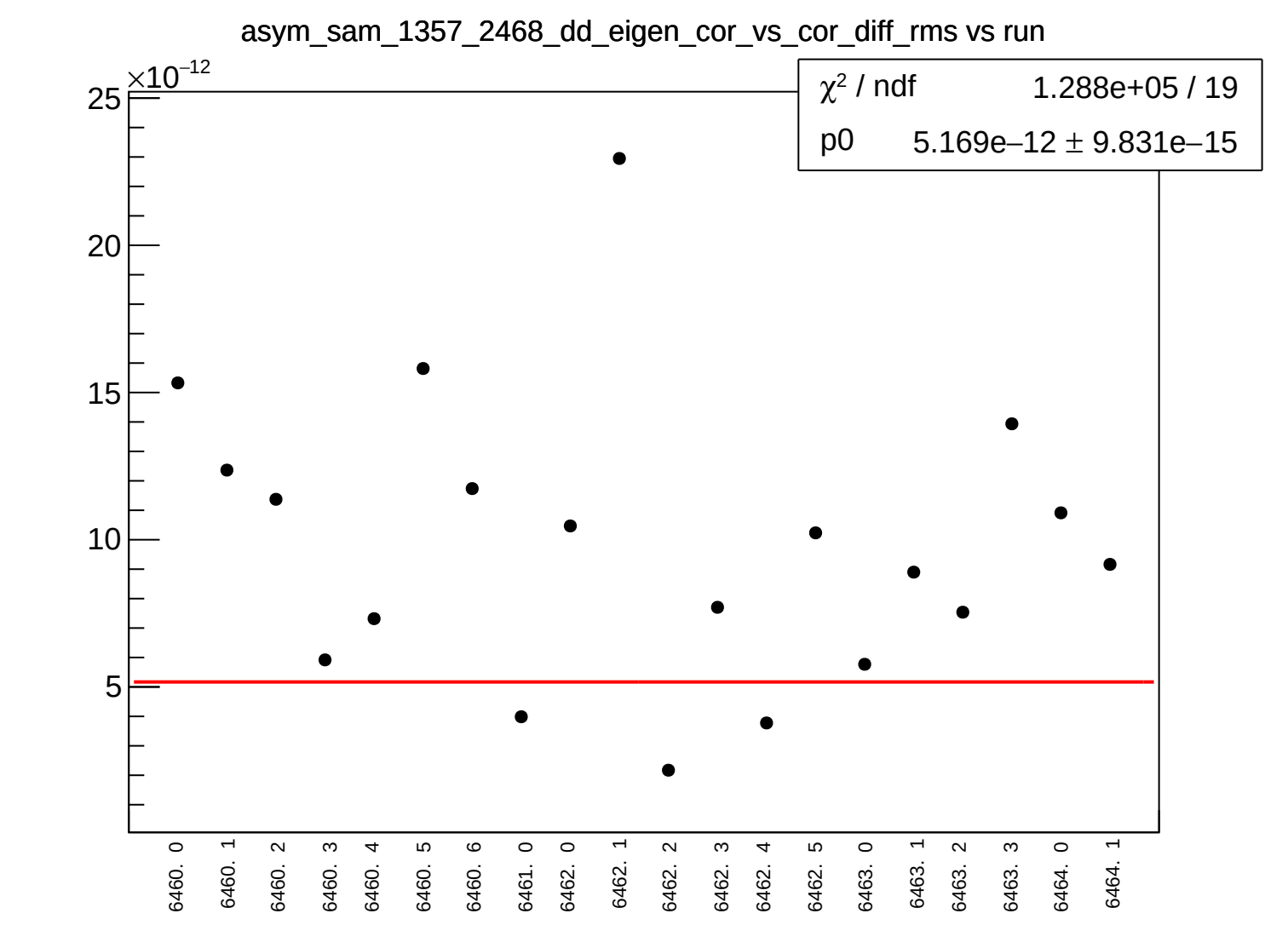

pull1D
Entries 20
Mean −0.03072
Std Dev 0.8504
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

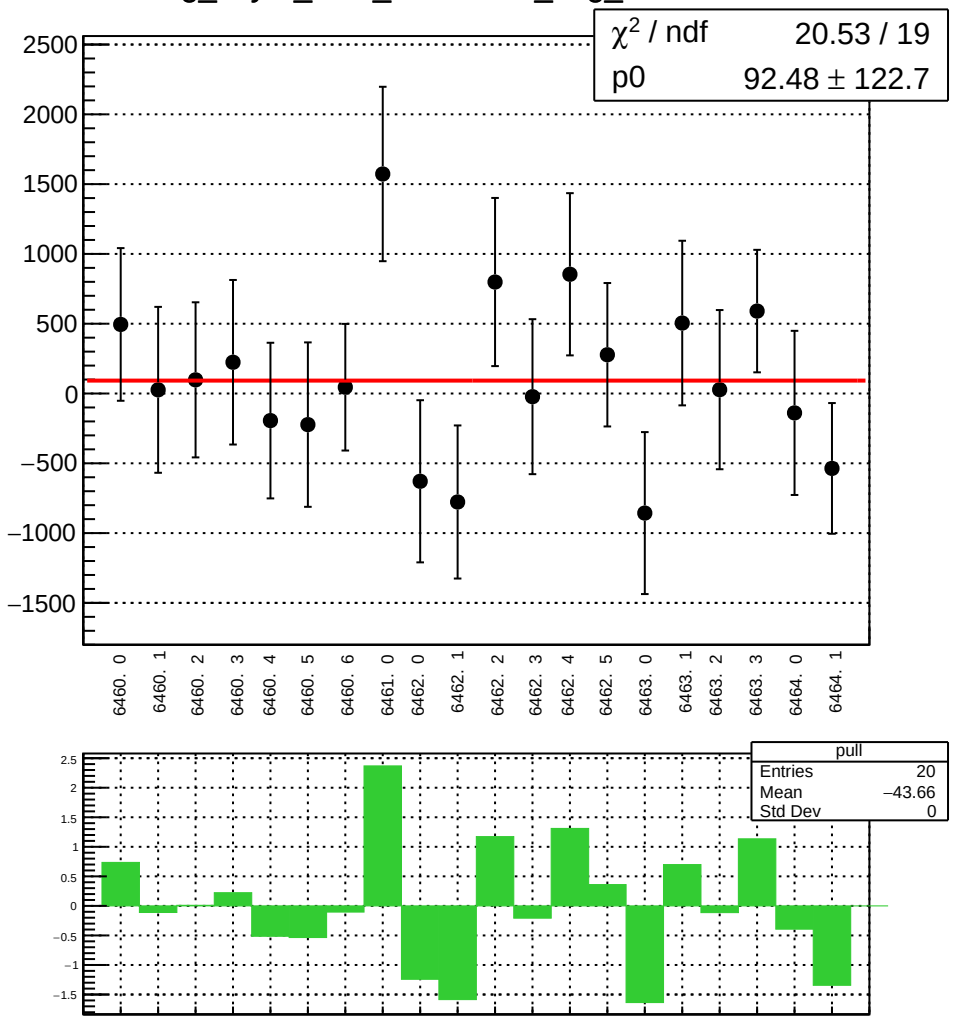

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1180 / 19
p0 18.61 ± 0.02928
20
19
18
17
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

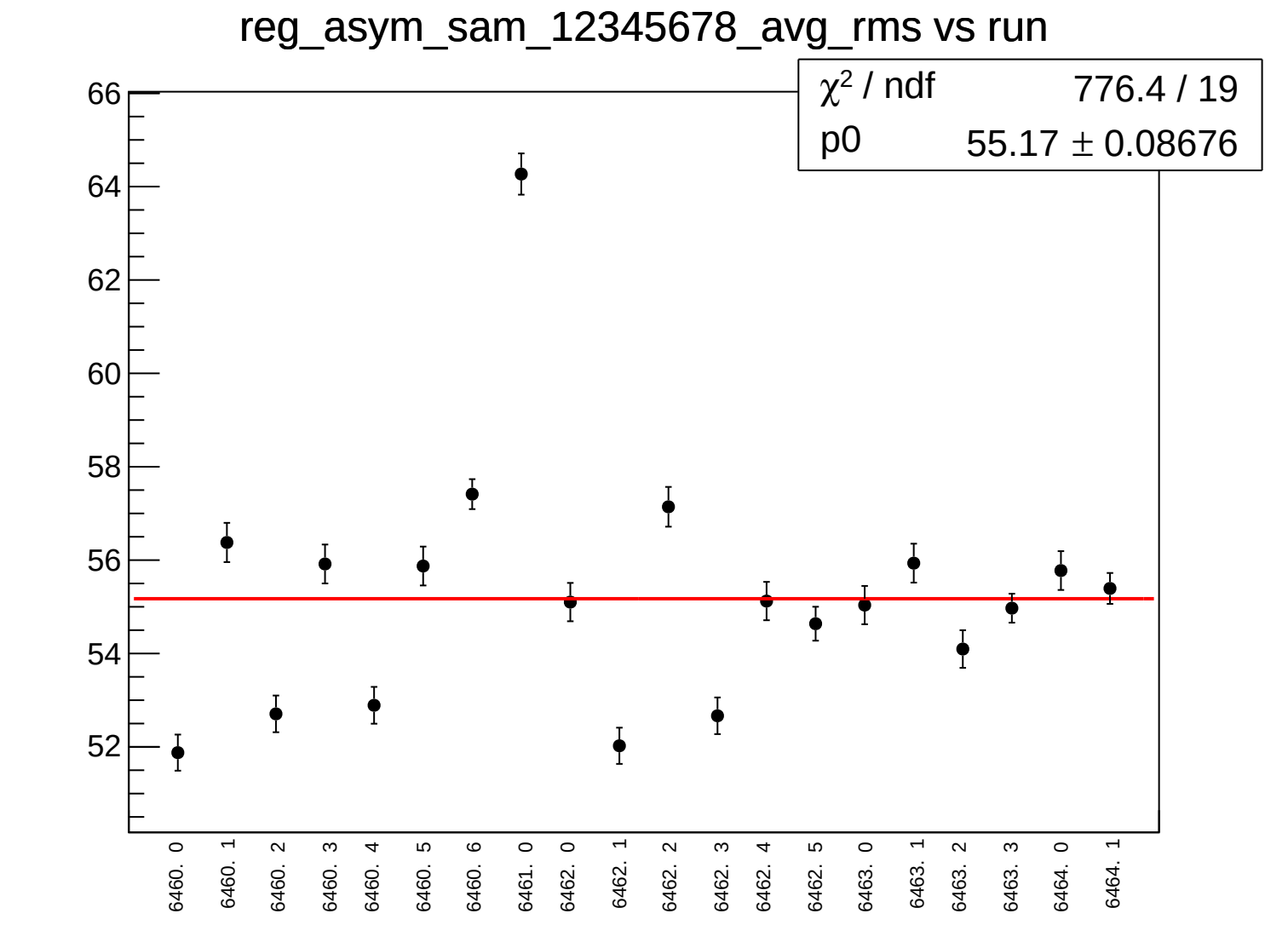

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 22.62 / 19
p0 −5.086e−15 ± 1.39e−14
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

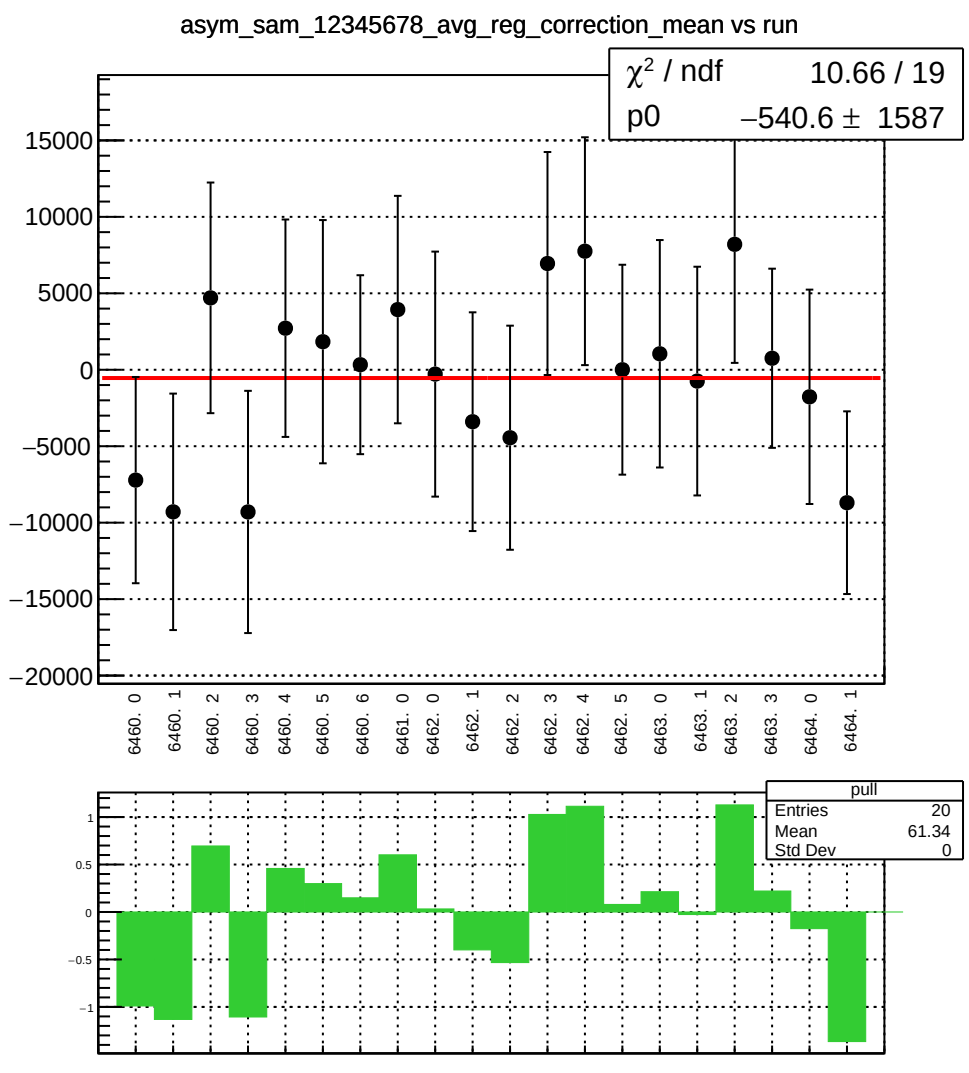

pull
Entries 20
Mean −7.828
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

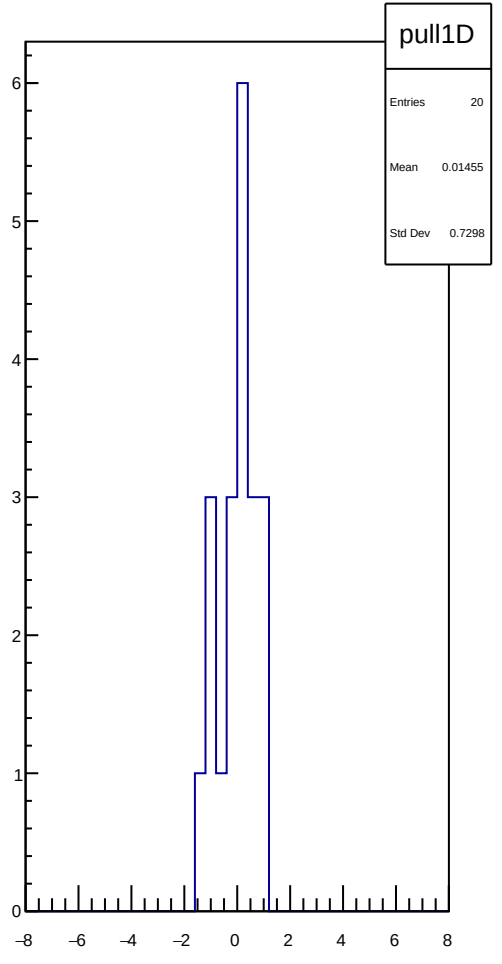

pull1D
Entries 20
Mean 0.04952
Std Dev 1.062
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

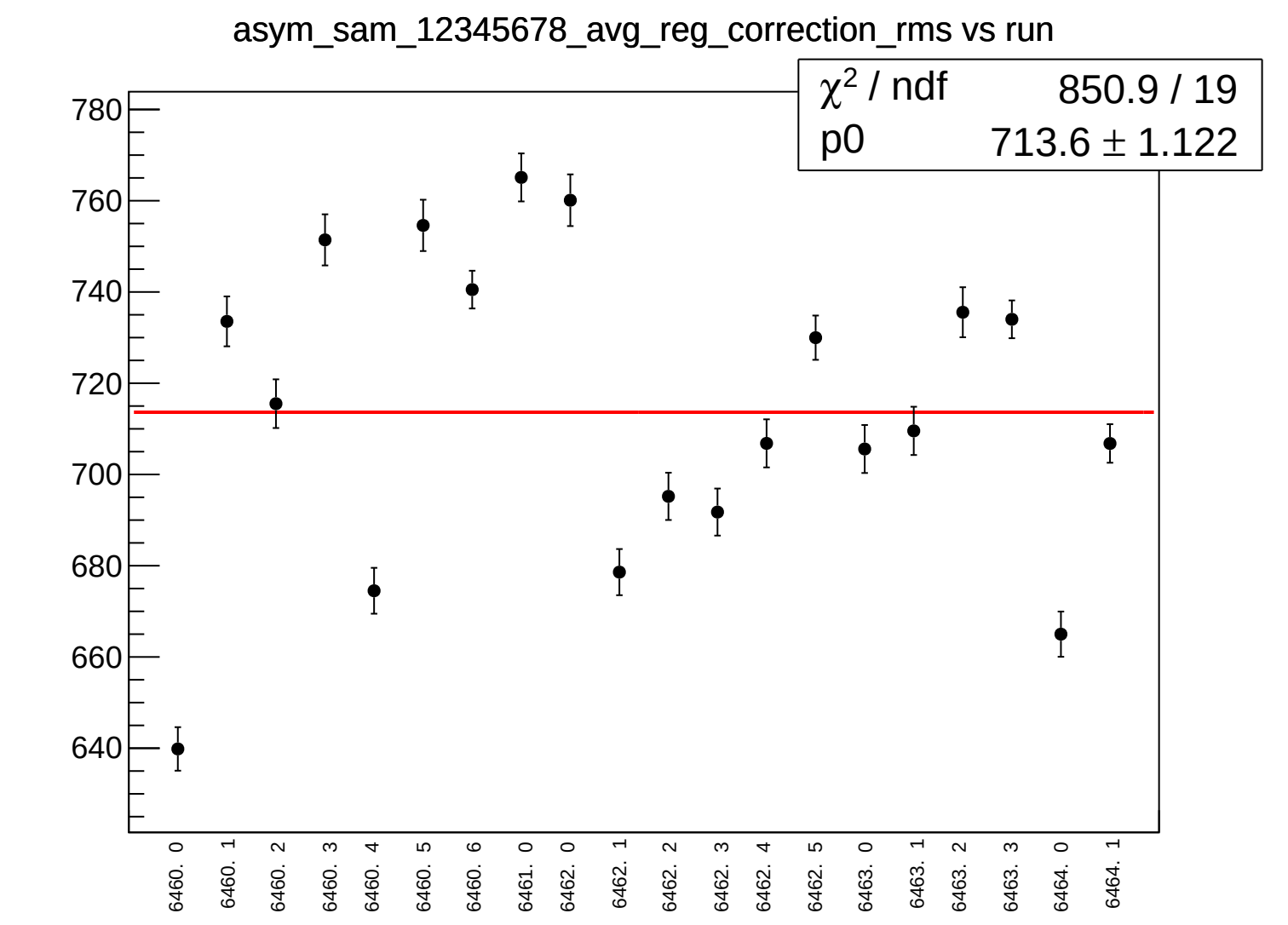

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.288e+05 / 19
p0 5.169e−12 ± 9.831e−15
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

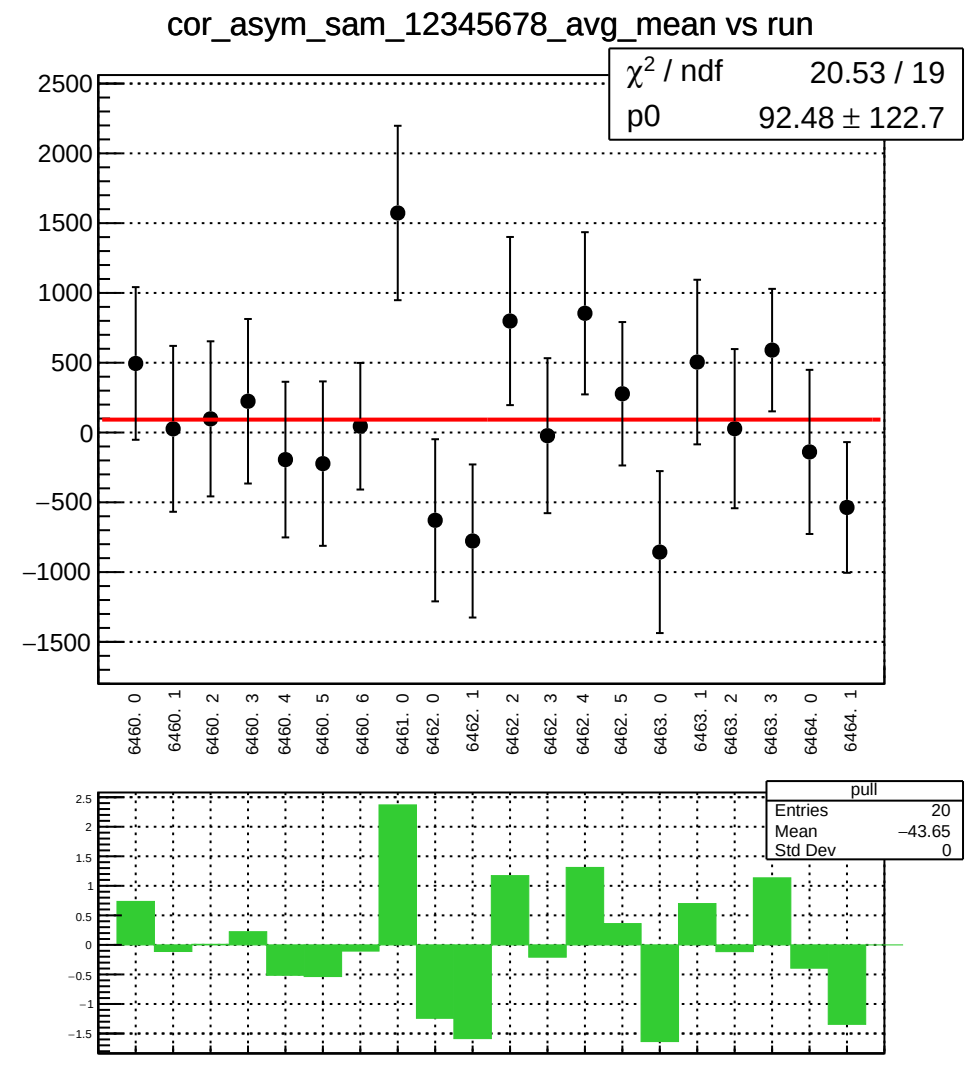

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 20.53 / 19
p0 92.48 ± 122.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −43.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01143
Std Dev 1.013
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

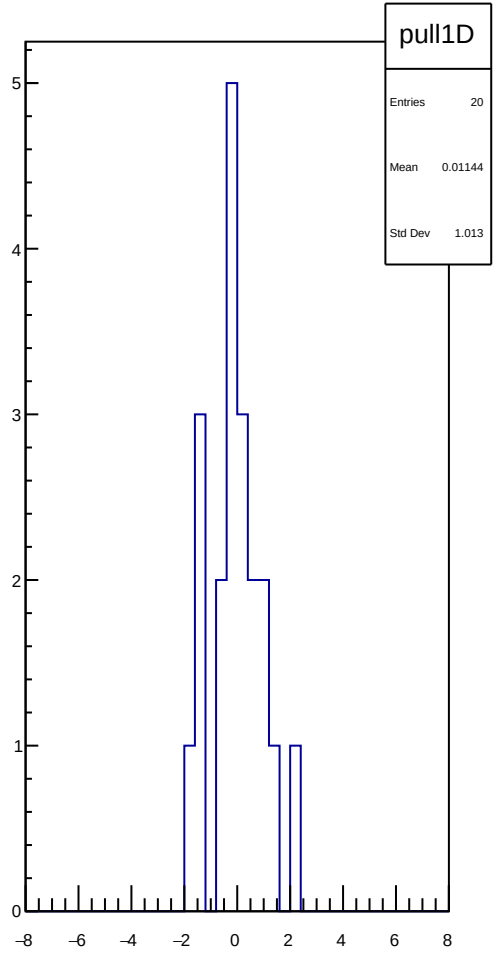

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 776.4 / 19
p0 55.17 ± 0.08676
66
64
62
60
58
56
54
52
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

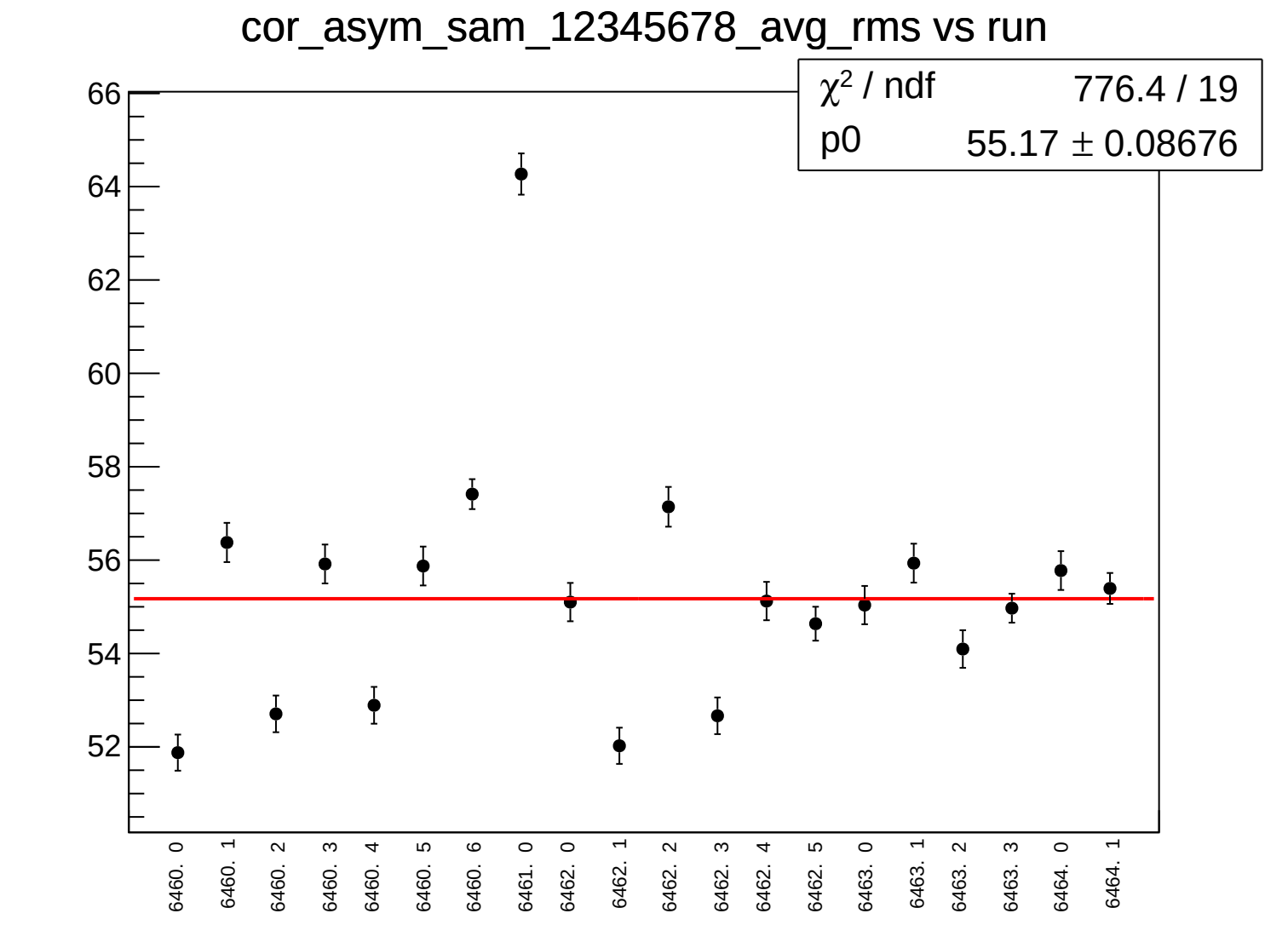

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 10.66 / 19
p0 −540.6 ± 1587
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 61.34
Std Dev 0
1
0.5
0
−0.5
−1

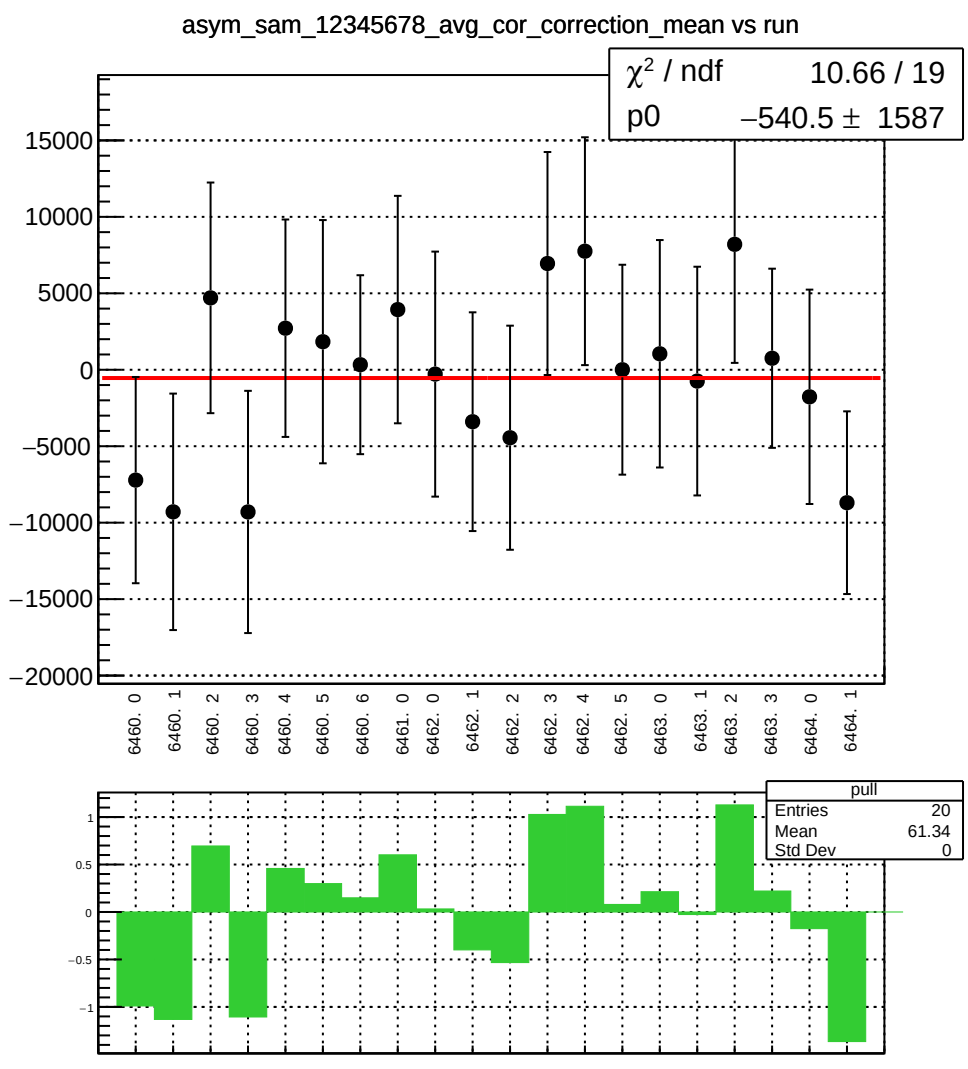

pull1D
Entries 20
Mean 0.01455
Std Dev 0.7298
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

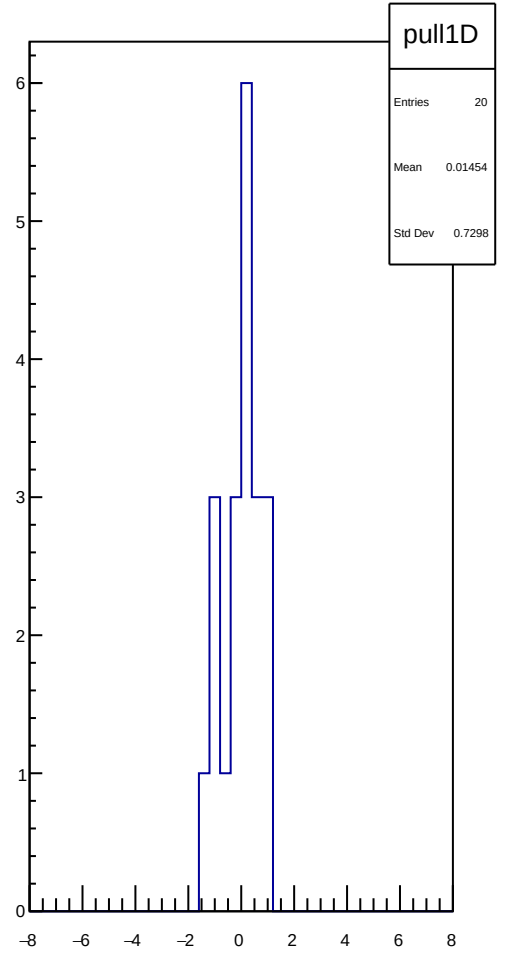

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 850.9 / 19
p0 713.6 ± 1.122
780
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

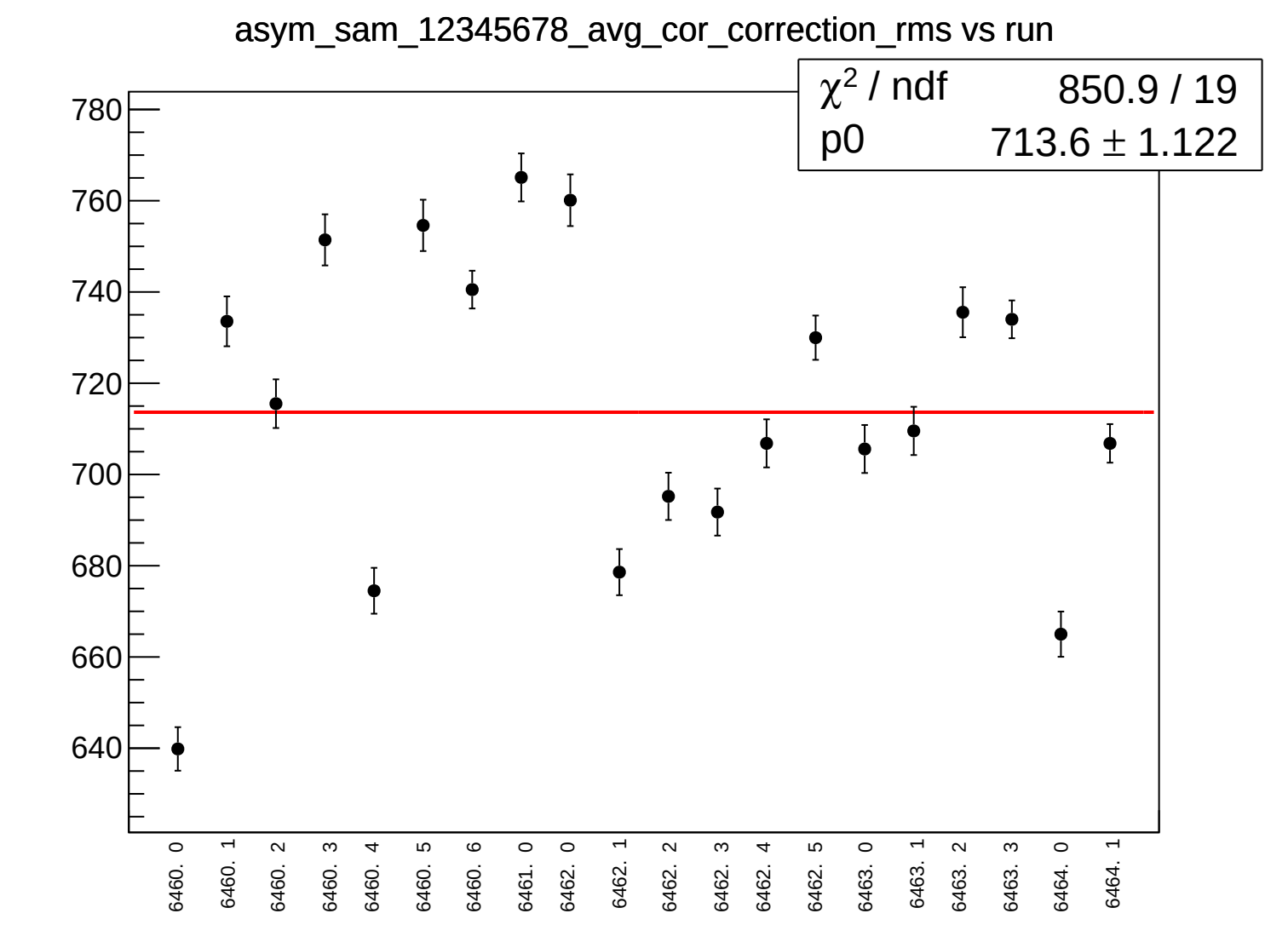

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 20.53 / 19
p0 92.48 ± 122.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −43.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

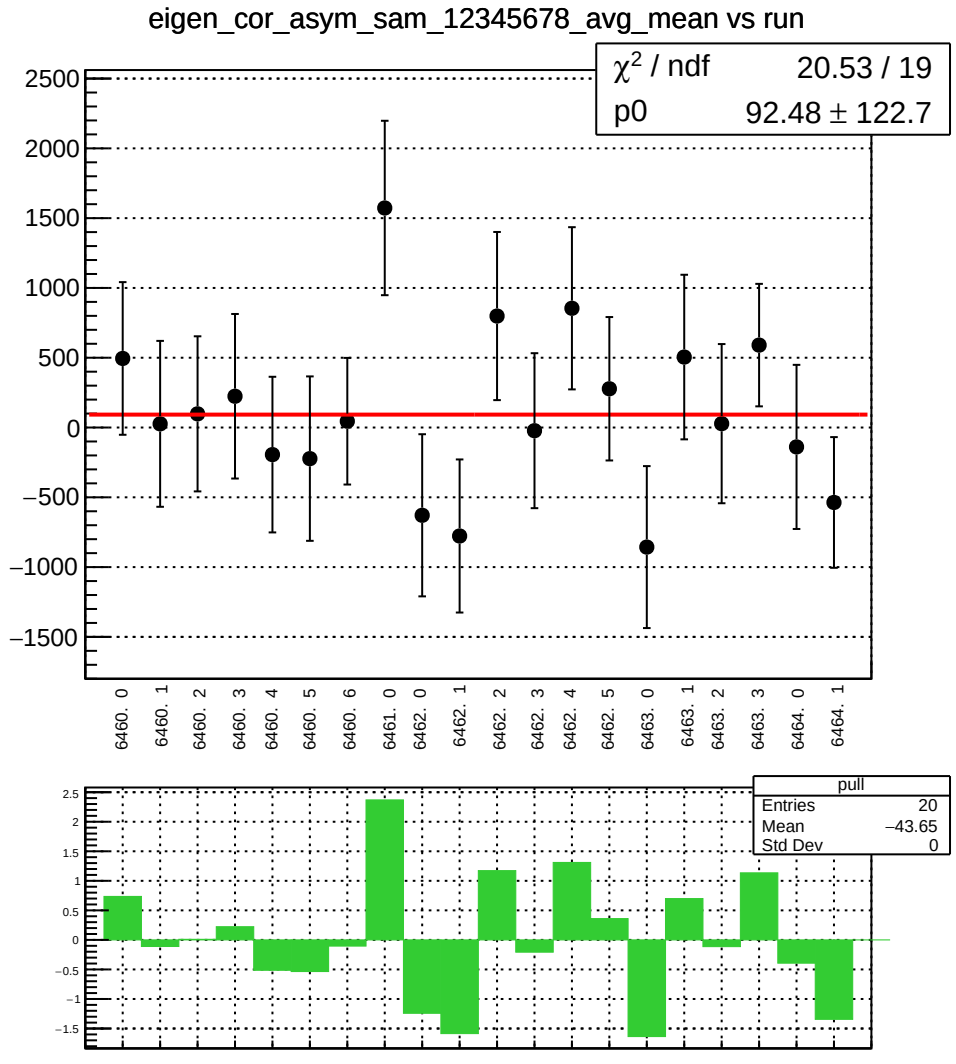

pull1D
Entries 20
Mean 0.01144
Std Dev 1.013
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

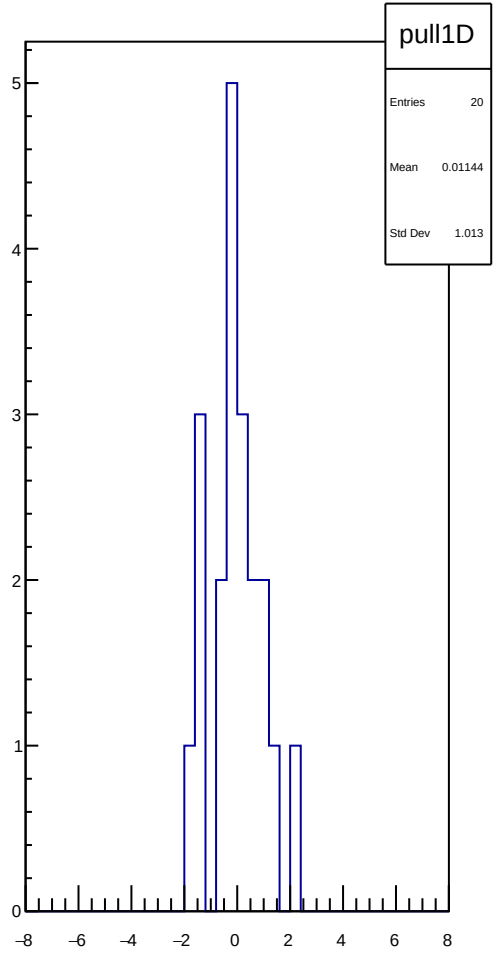

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 776.4 / 19
p0 55.17 ± 0.08676
66
64
62
60
58
56
54
52
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

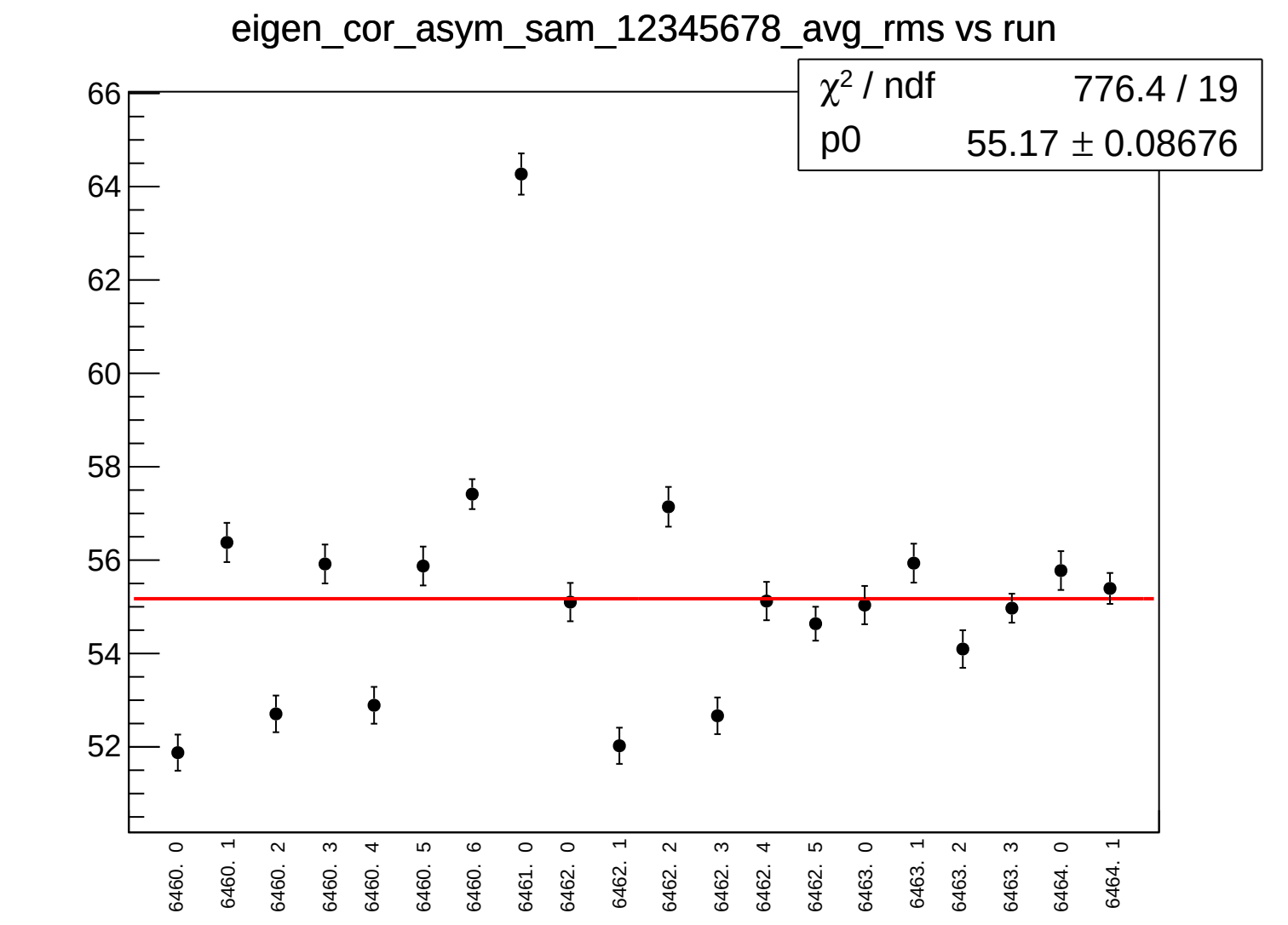

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 10.66 / 19
p0 −540.5 ± 1587
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 61.34
Std Dev 0
1
0.5
0
−0.5
−1

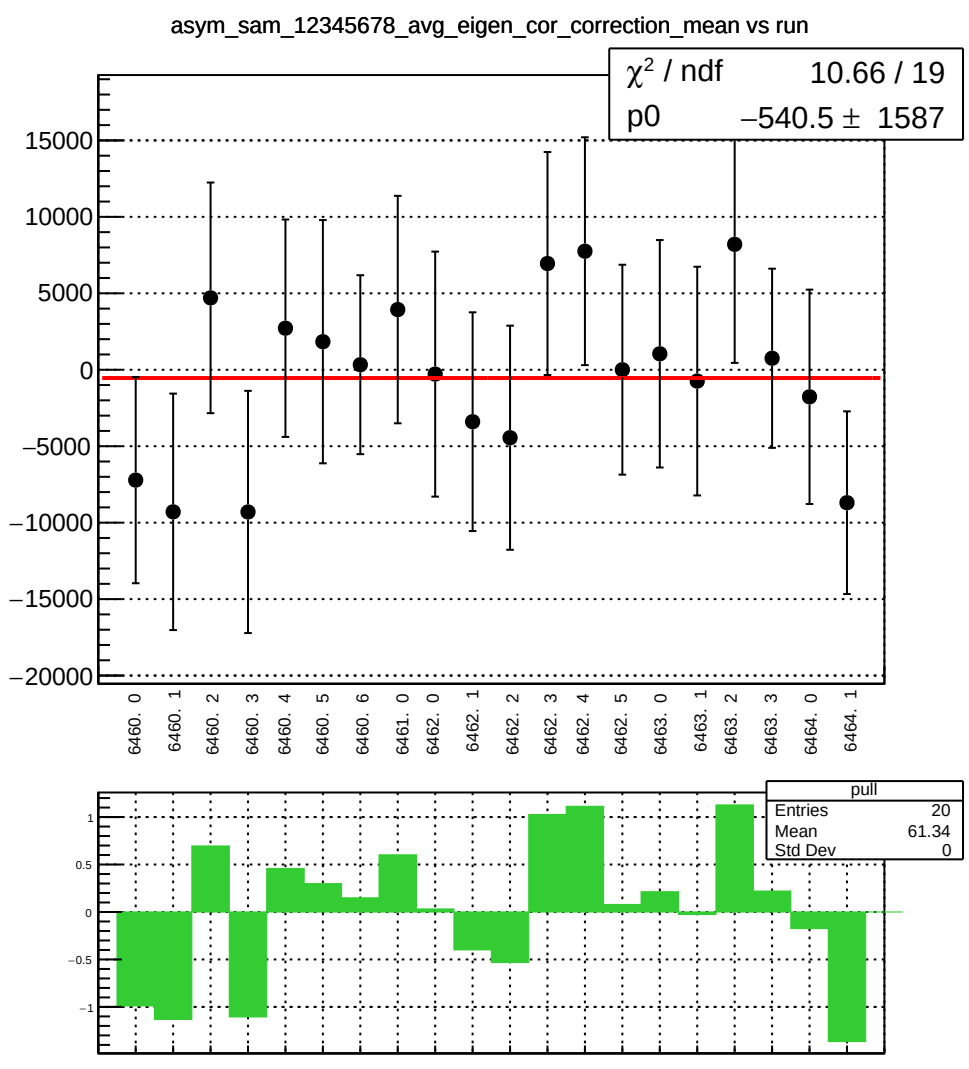

pull1D
Entries 20
Mean 0.01454
Std Dev 0.7298
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

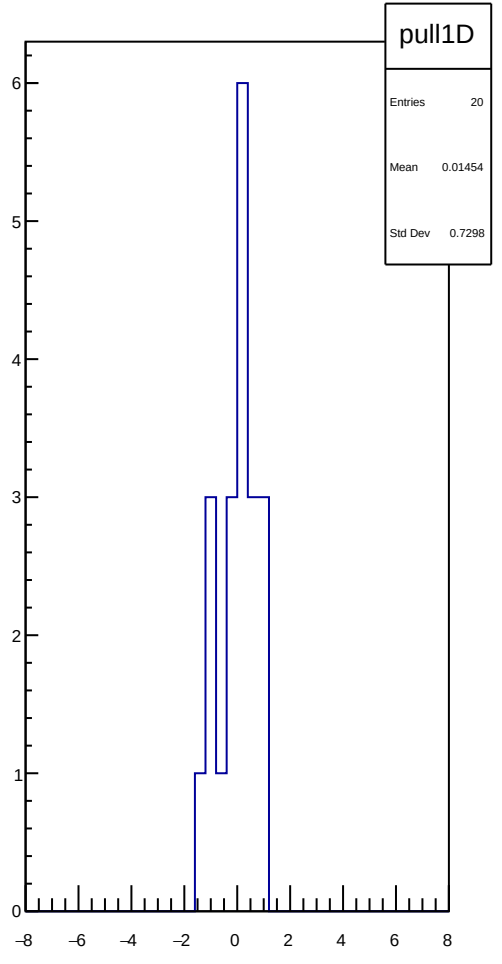

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 850.9 / 19
p0 713.6 ± 1.122
780
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

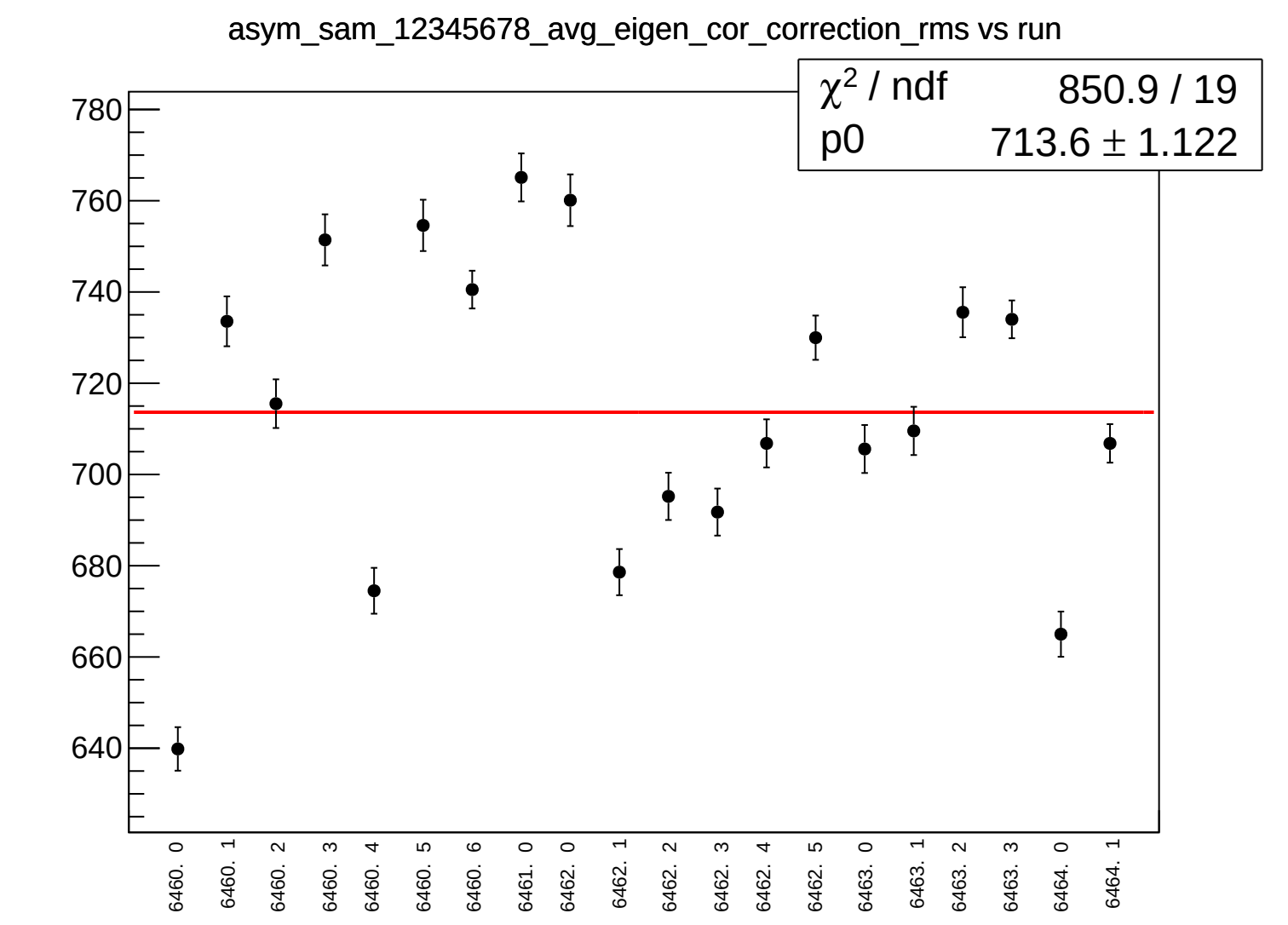

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 20.53 / 19
p0 92.48 ± 122.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −43.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

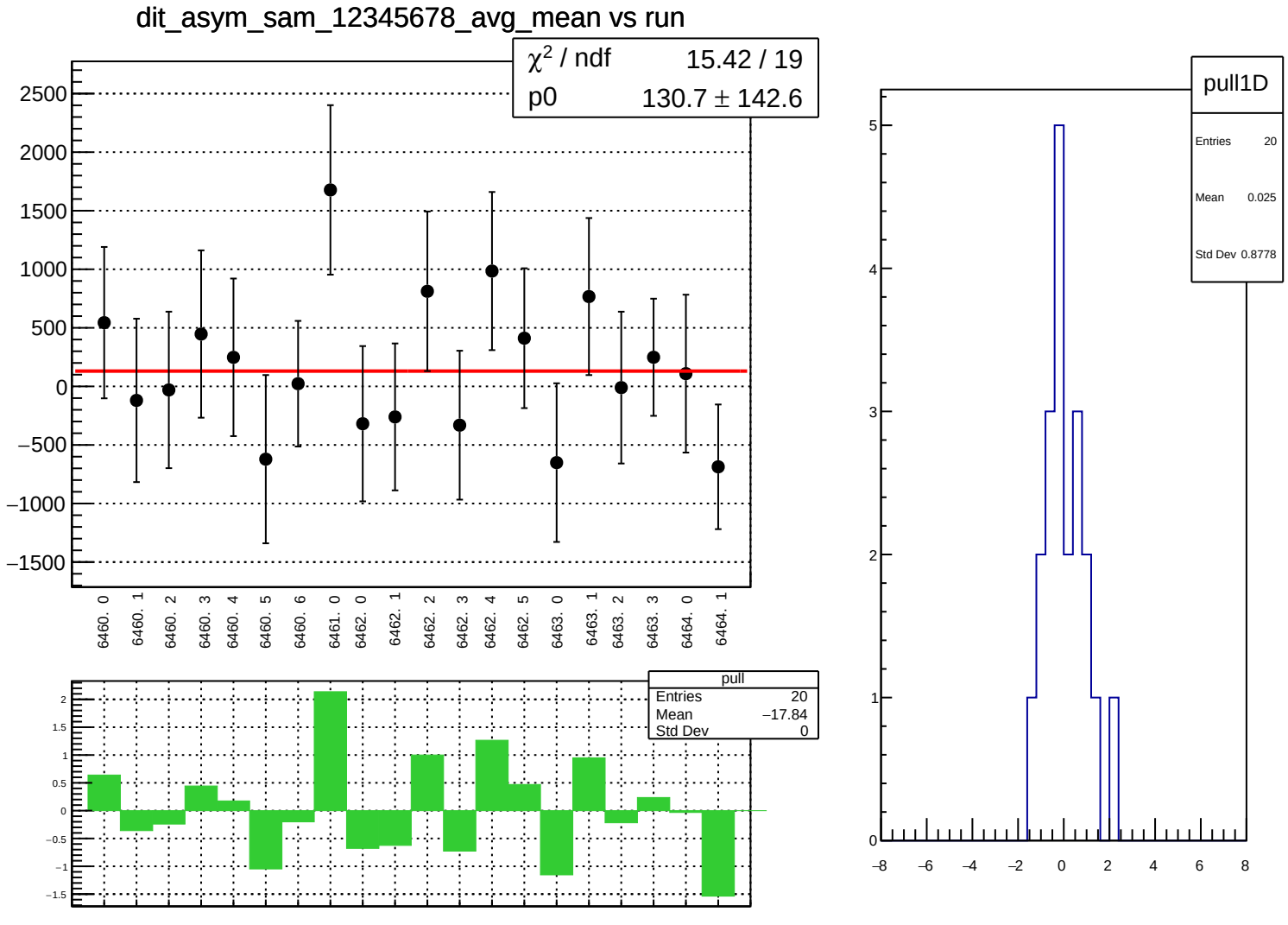

pull1D
Entries 20
Mean 0.01144
Std Dev 1.013
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

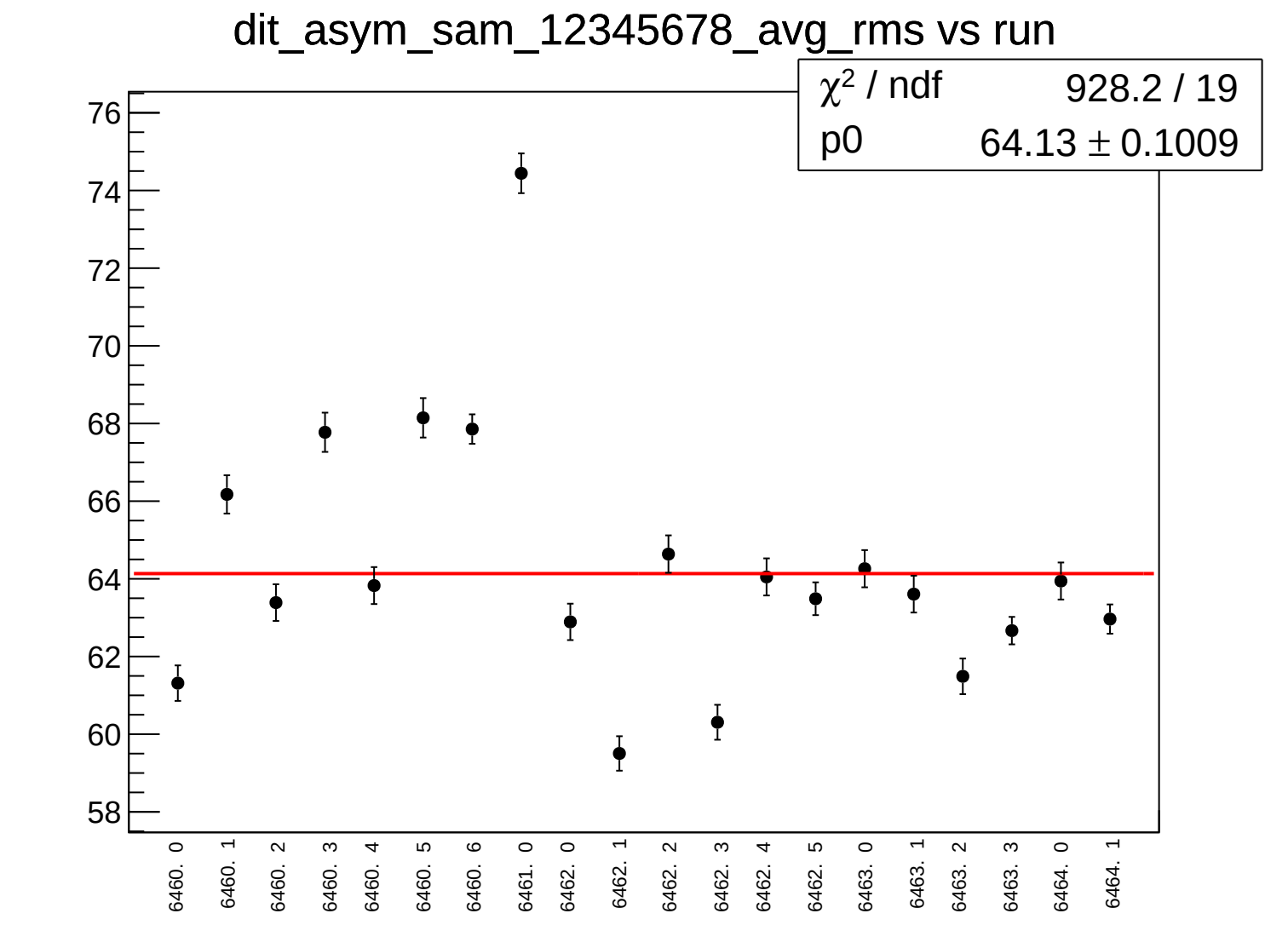

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 776.4 / 19
p0 55.17 ± 0.08676
66
64
62
60
58
56
54
52
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

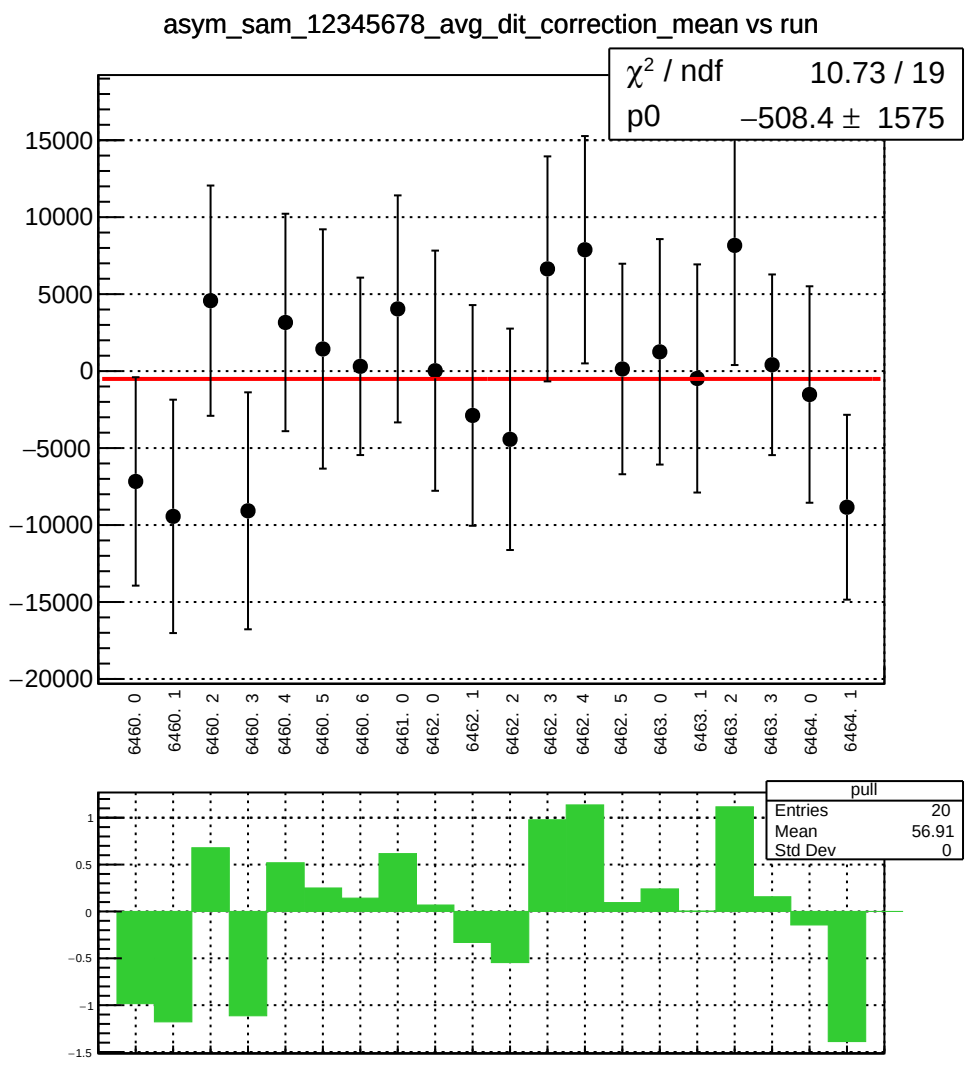

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 10.66 / 19
p0 −540.5 ± 1587
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 61.34
Std Dev 0
1
0.5
0
−0.5
−1

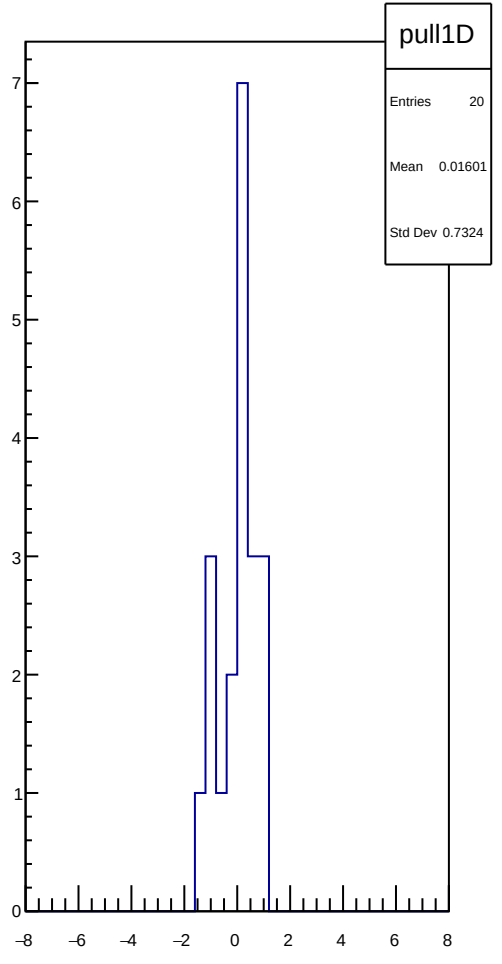

pull1D
Entries 20
Mean 0.01454
Std Dev 0.7298
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

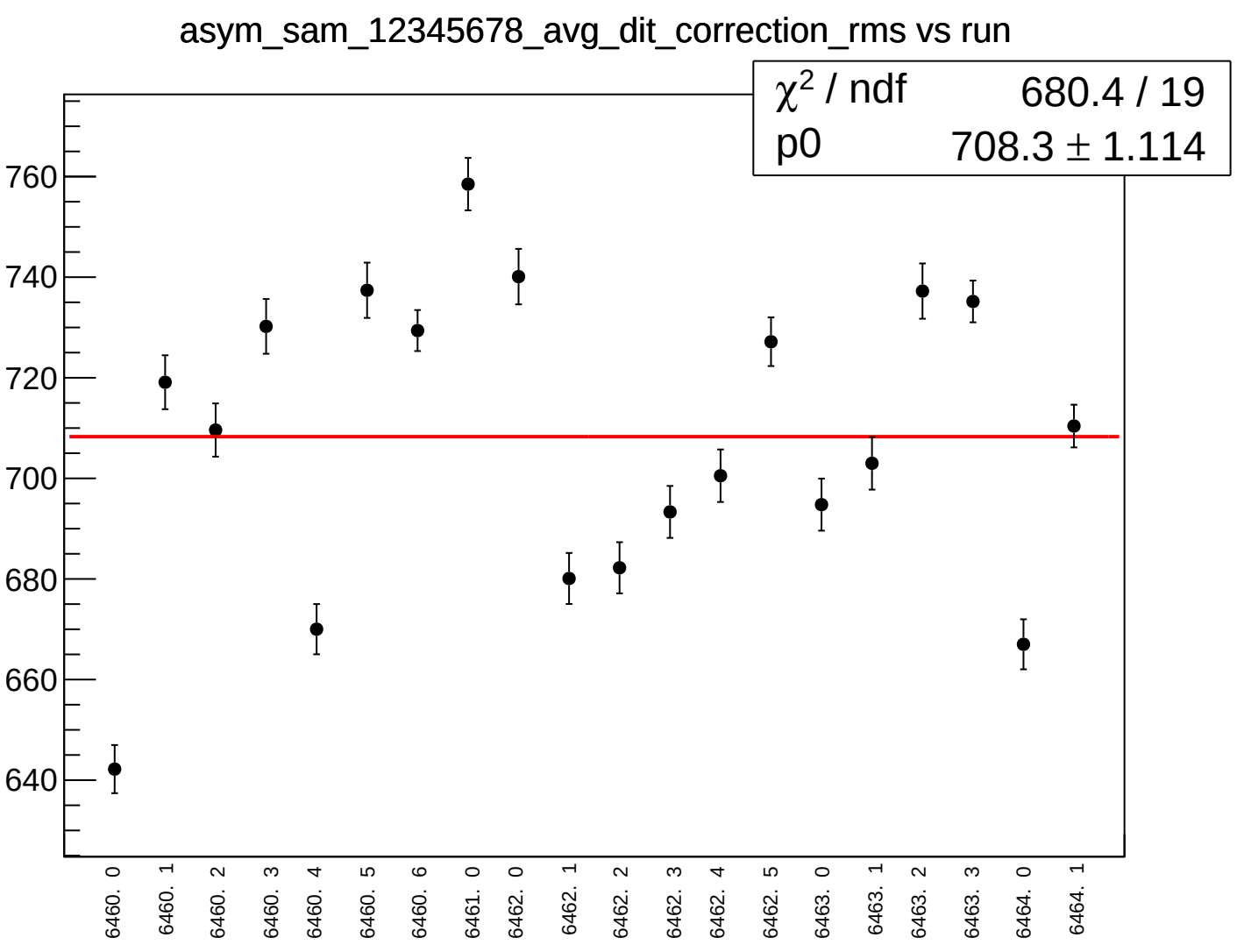

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 850.9 / 19
p0 713.6 ± 1.122
780
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

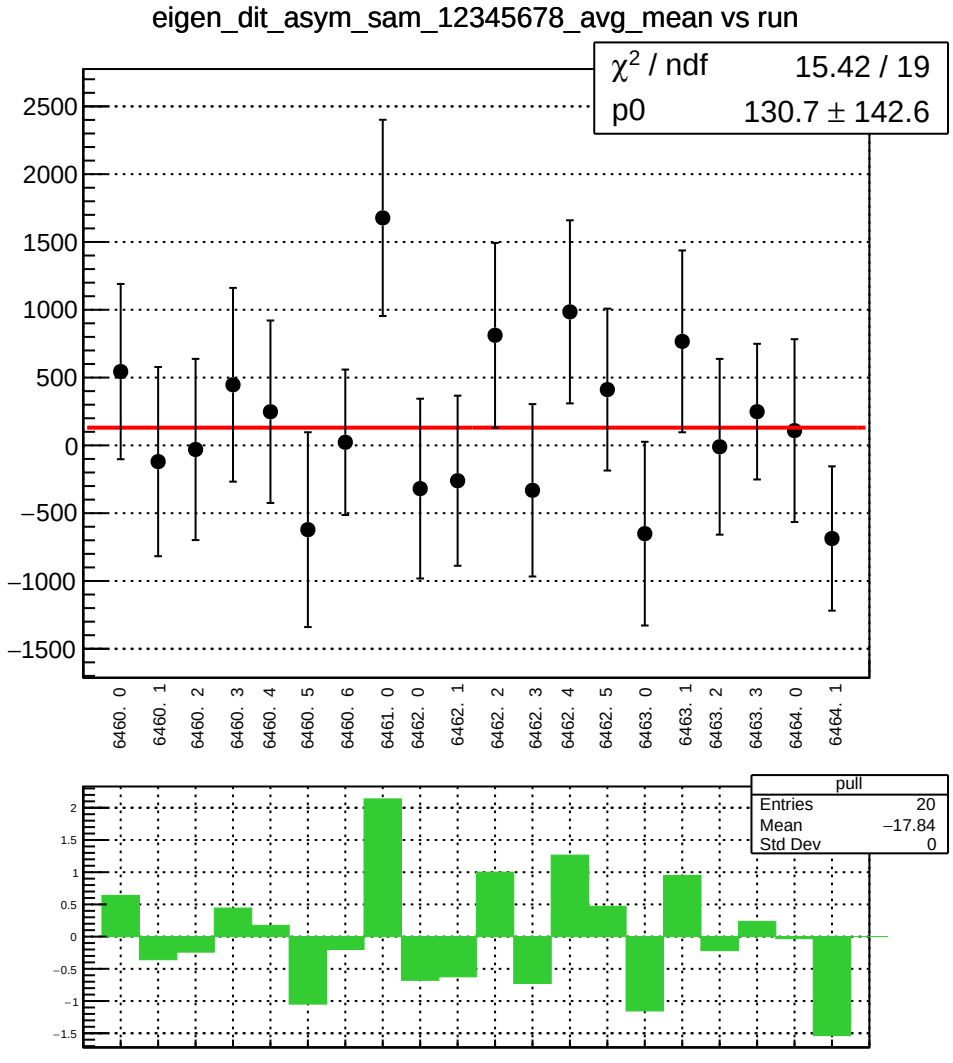

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 15.42 / 19
p0 130.7 ± 142.6
2500
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −17.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.025
Std Dev 0.8778
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

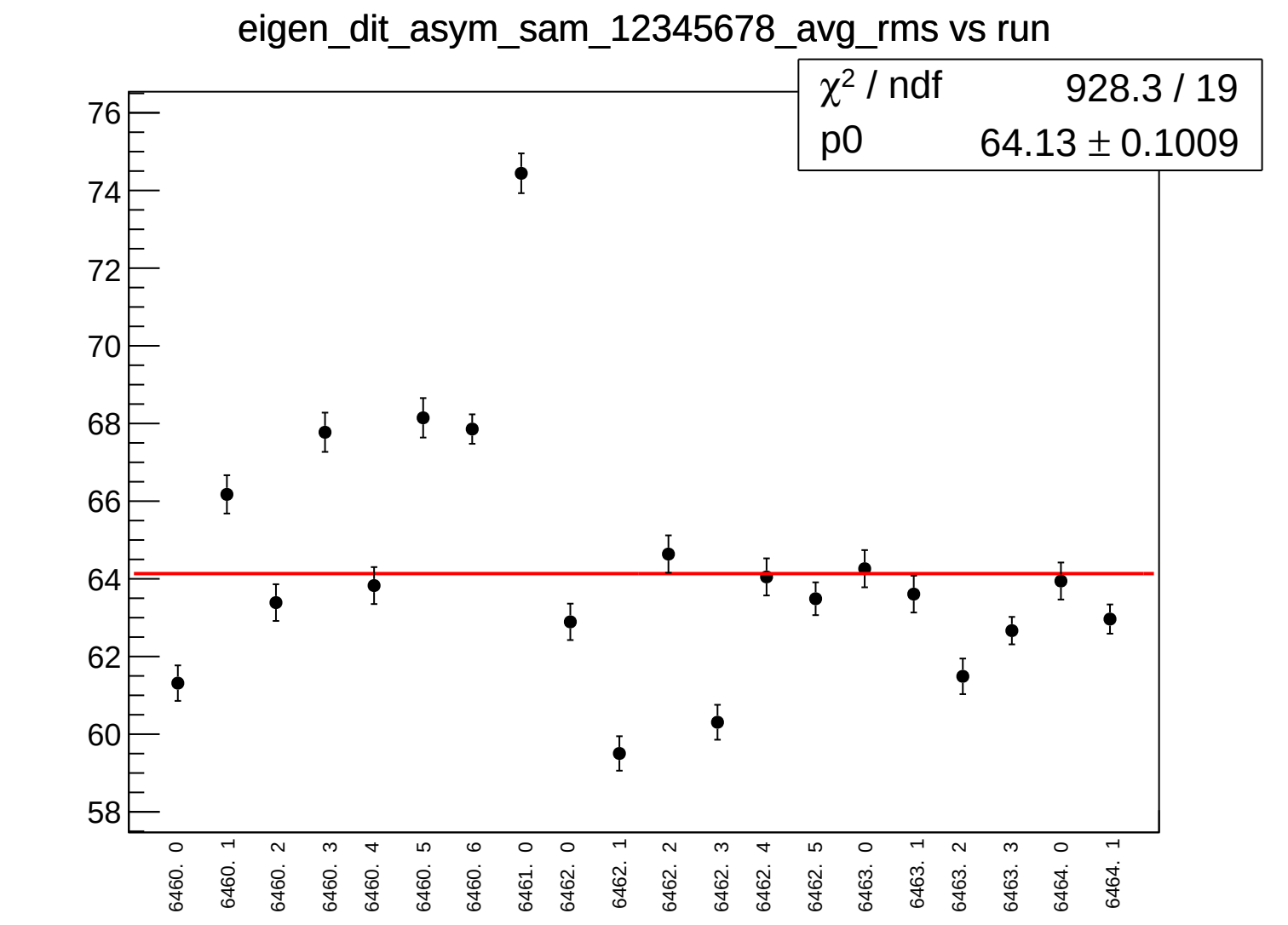

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 928.2 / 19
p0 64.13 ± 0.1009
76
74
72
70
68
66
64
62
60
58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

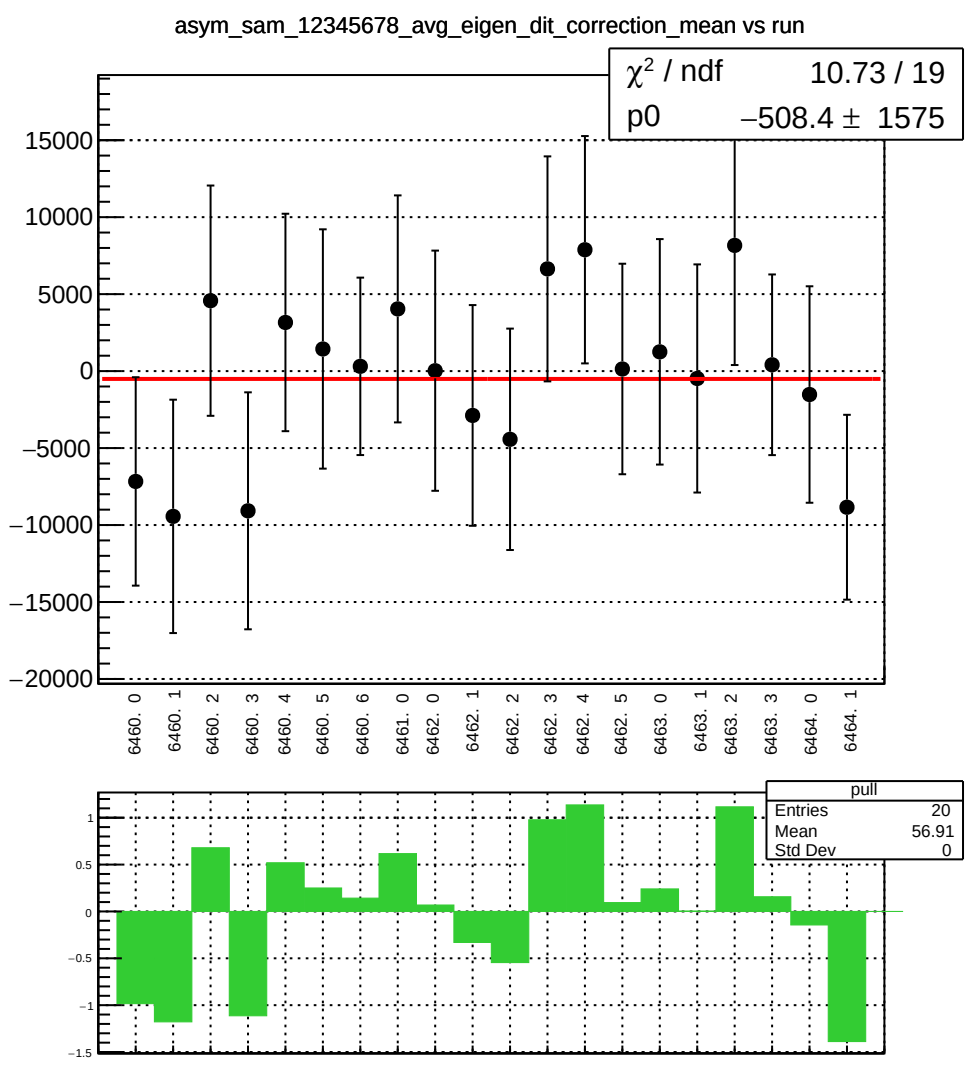

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 10.73 / 19
p0 −508.4 ± 1575
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.91
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

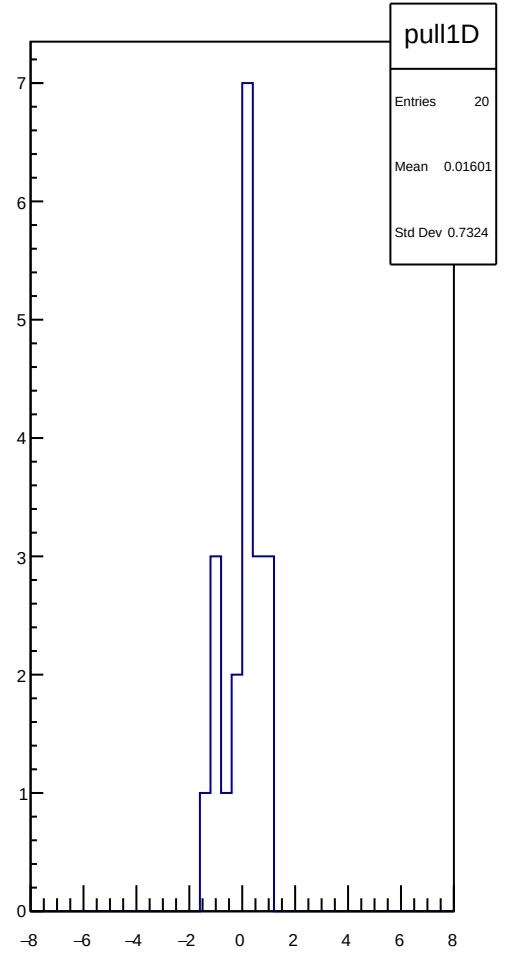

pull1D
Entries 20
Mean 0.01601
Std Dev 0.7324
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

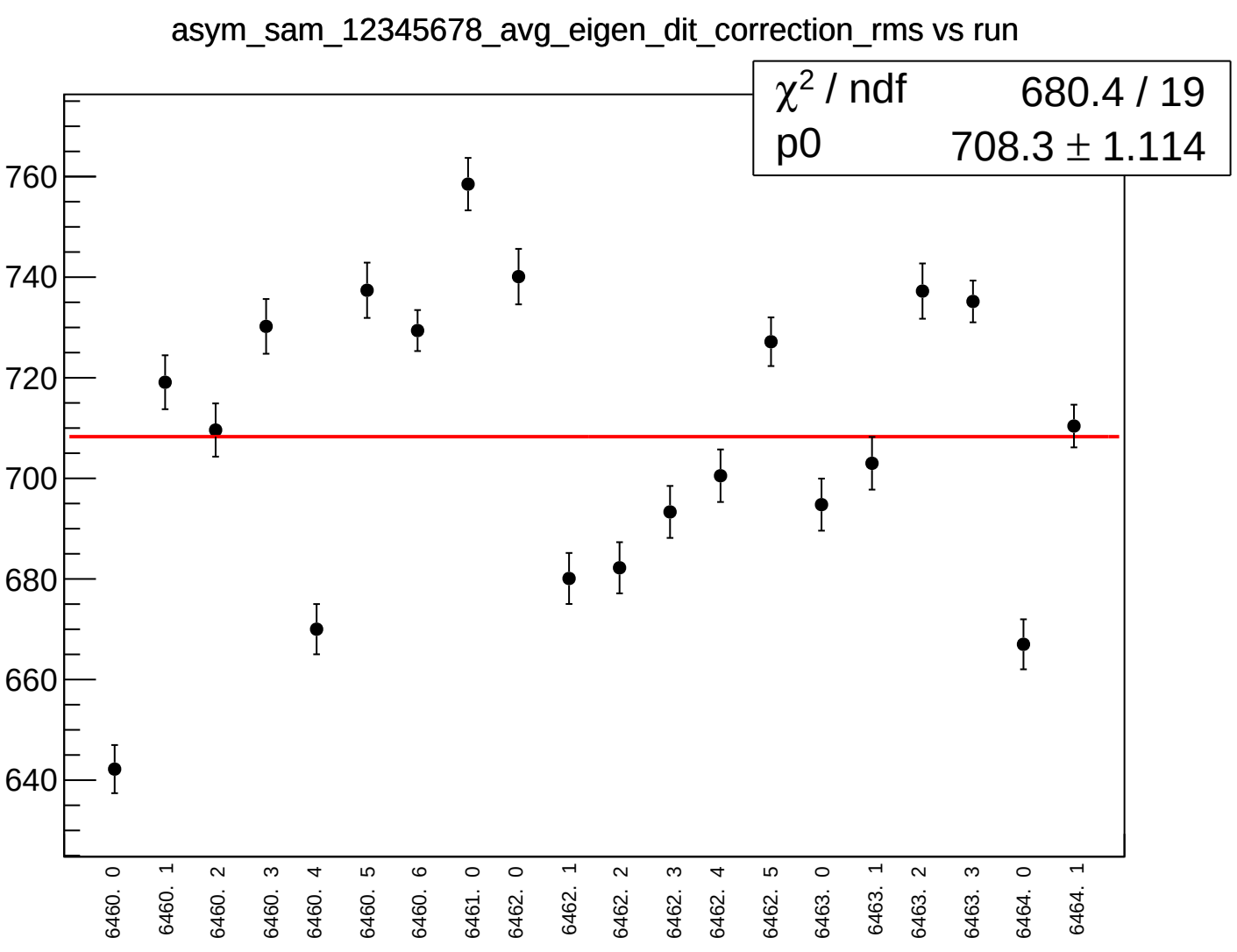

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 680.4 / 19
p0 708.3 ± 1.114
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

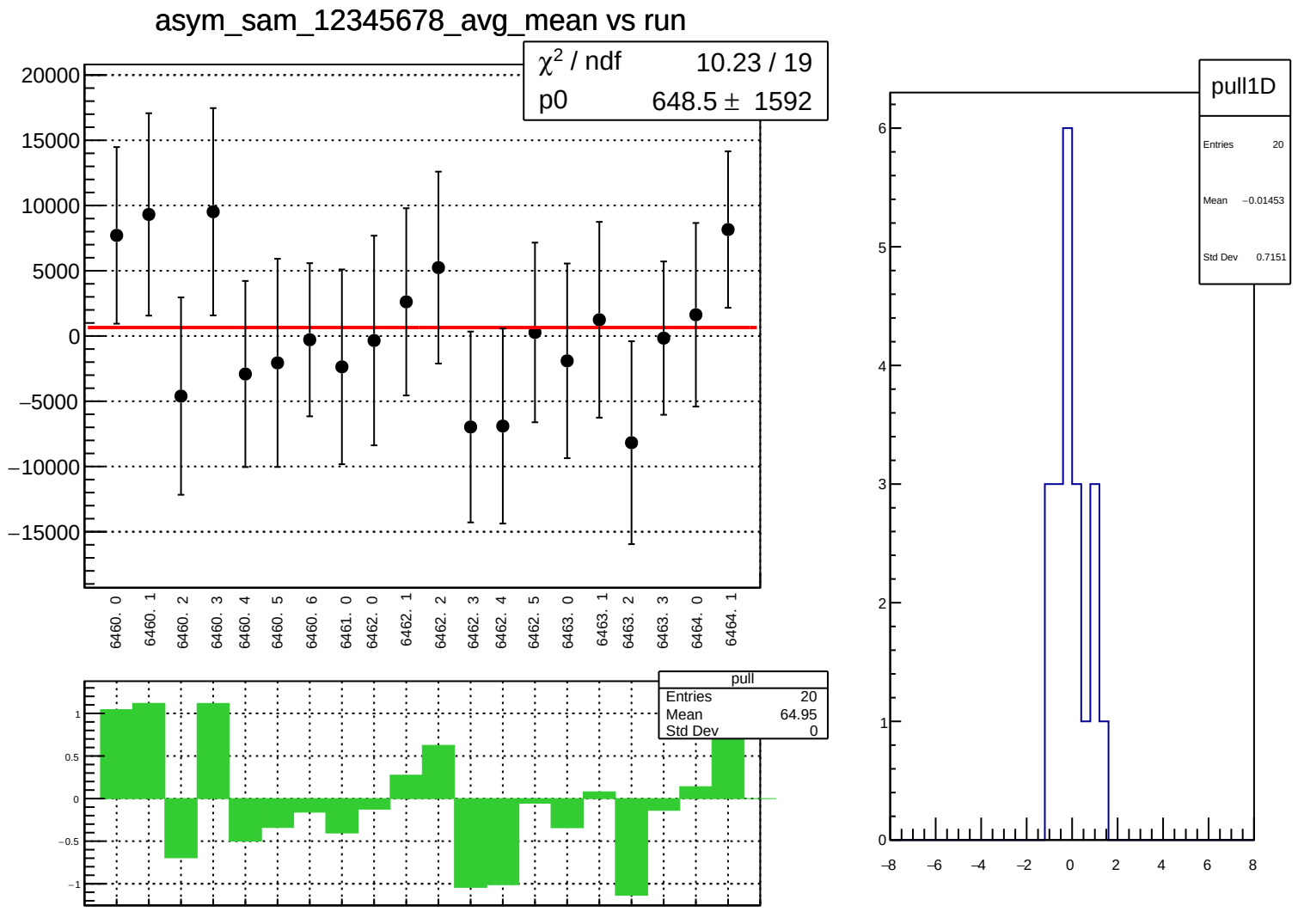

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 15.42 / 19
p0 130.7 ± 142.6
2500
2000
1500
1000
500
0
−500
−1000
−1500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −17.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.025
Std Dev 0.8778
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

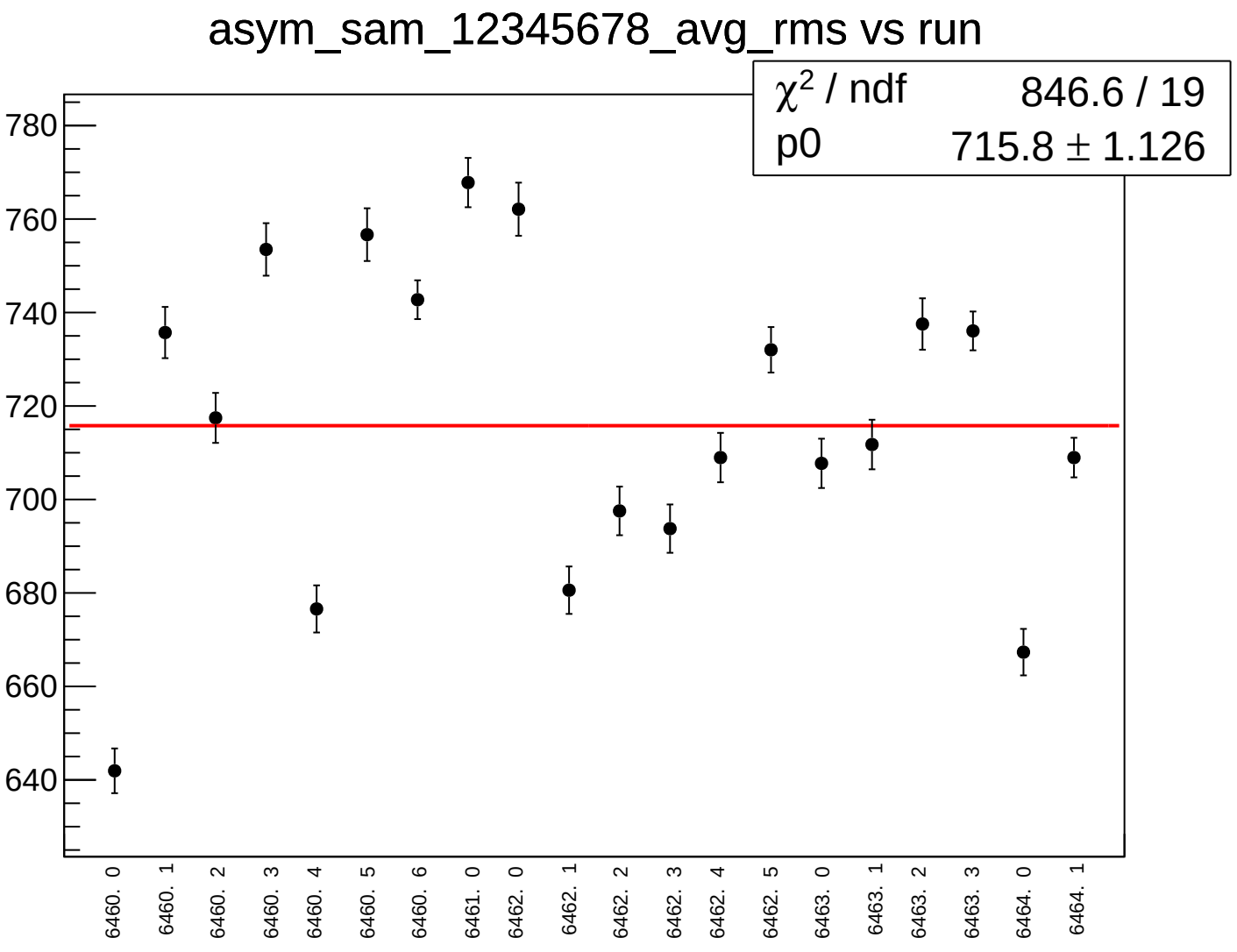

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 928.3 / 19
p0 64.13 ± 0.1009
76
74
72
70
68
66
64
62
60
58
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

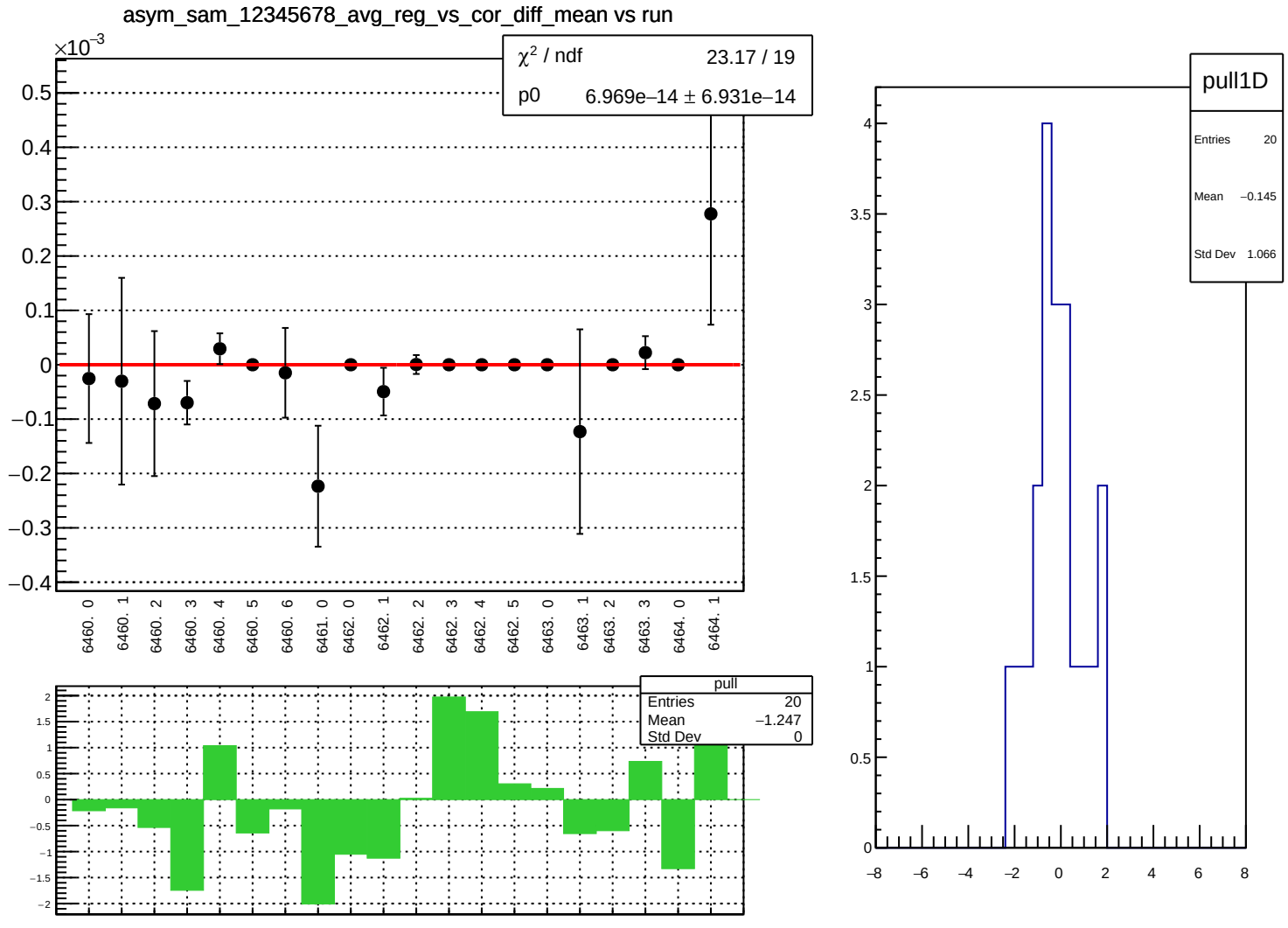

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 10.73 / 19
p0 −508.4 ± 1575
15000
10000
5000
0
−5000
−10000
−15000
−20000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.91
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

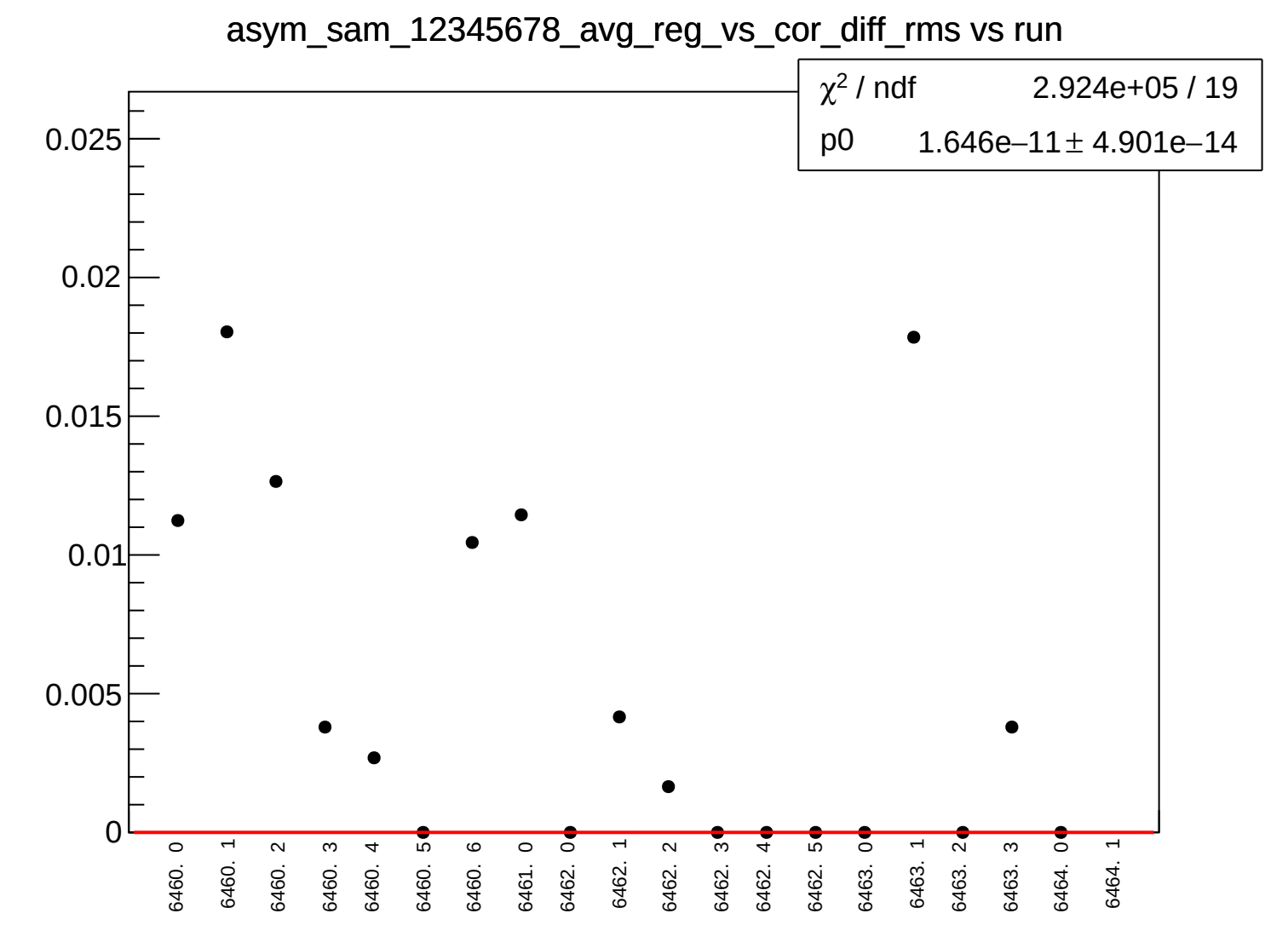

pull1D
Entries 20
Mean 0.01601
Std Dev 0.7324
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

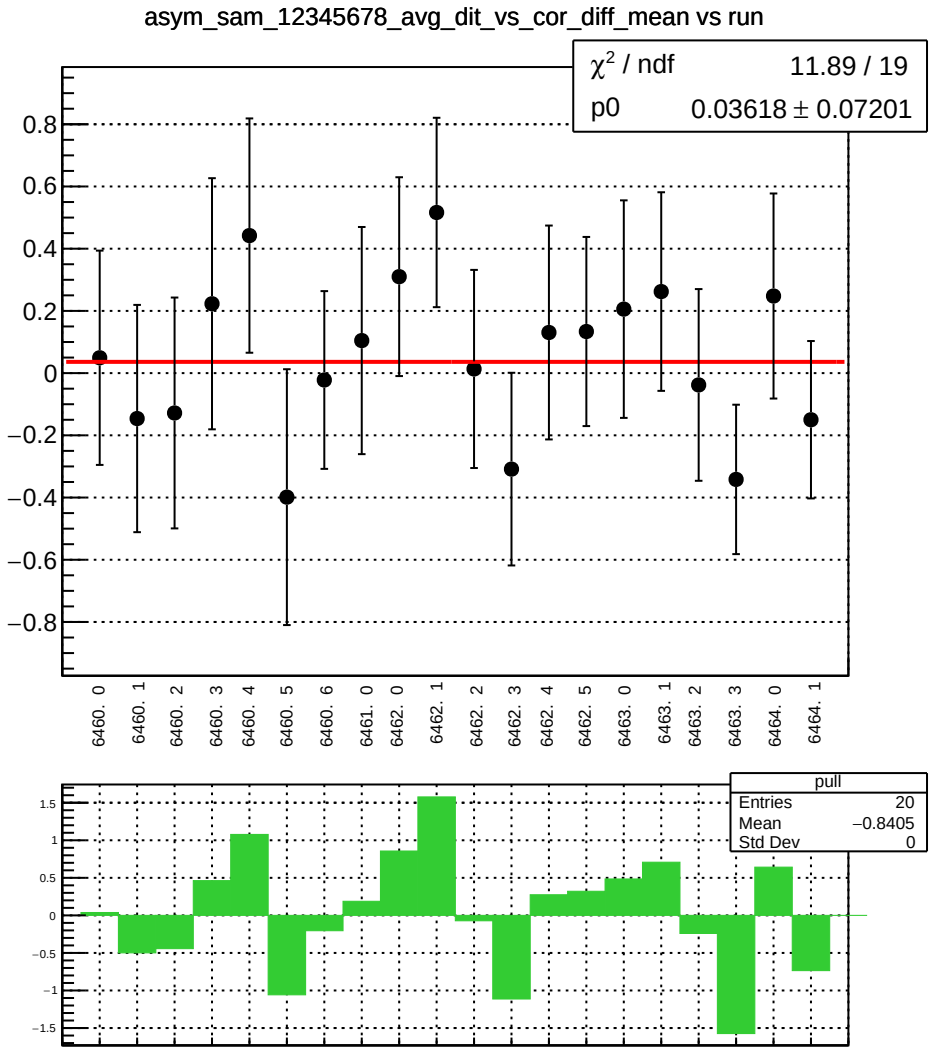

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 680.4 / 19
p0 708.3 ± 1.114
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

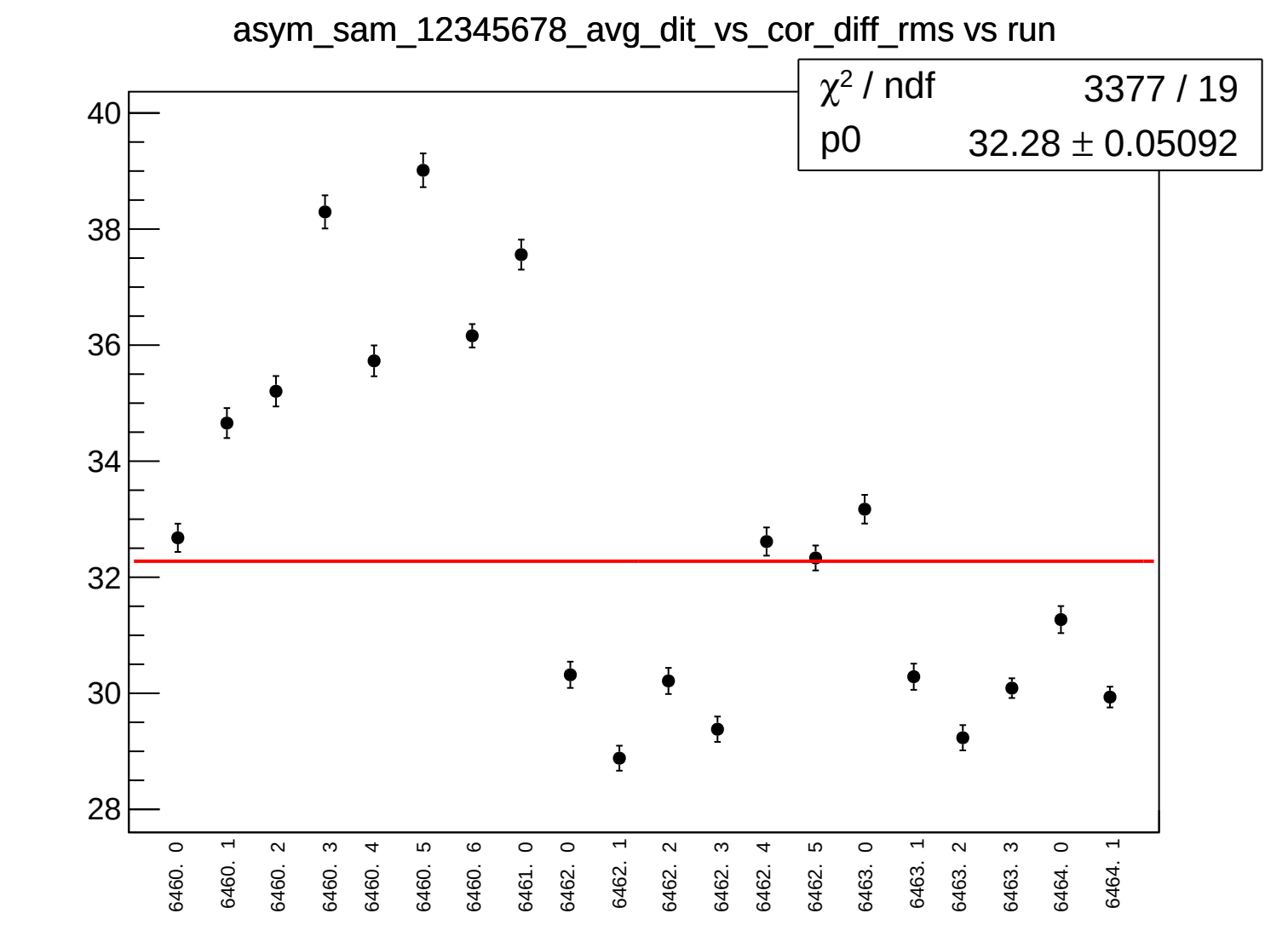

asym_sam_12345678_avg_mean vs run
χ² / ndf 10.23 / 19
p0 648.5 ± 1592
20000
15000
10000
5000
0
−5000
−10000
−15000
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 64.95
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01453
Std Dev 0.7151
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

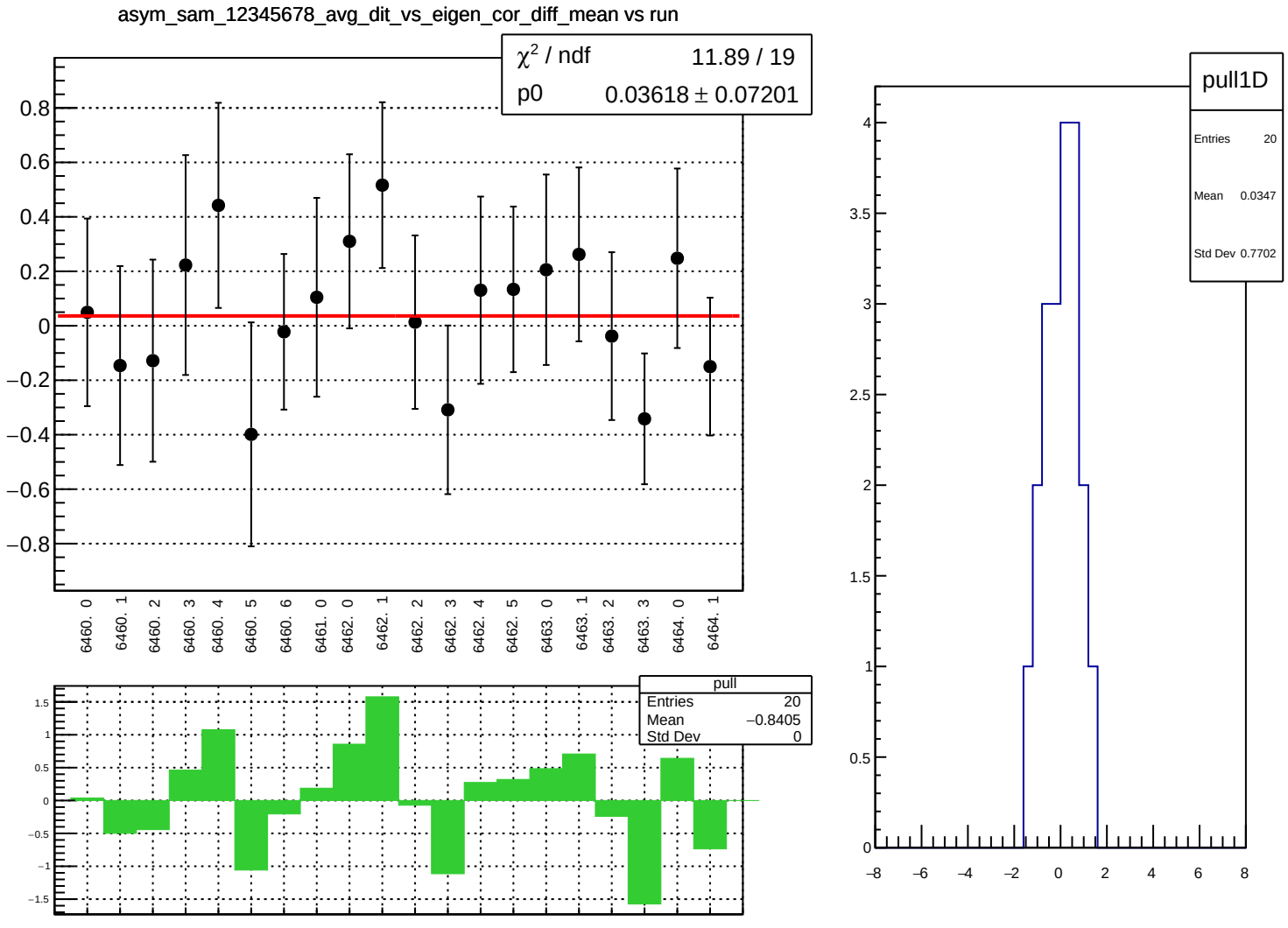

asym_sam_12345678_avg_rms vs run
χ² / ndf 846.6 / 19
p0 715.8 ± 1.126
780
760
740
720
700
680
660
640
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

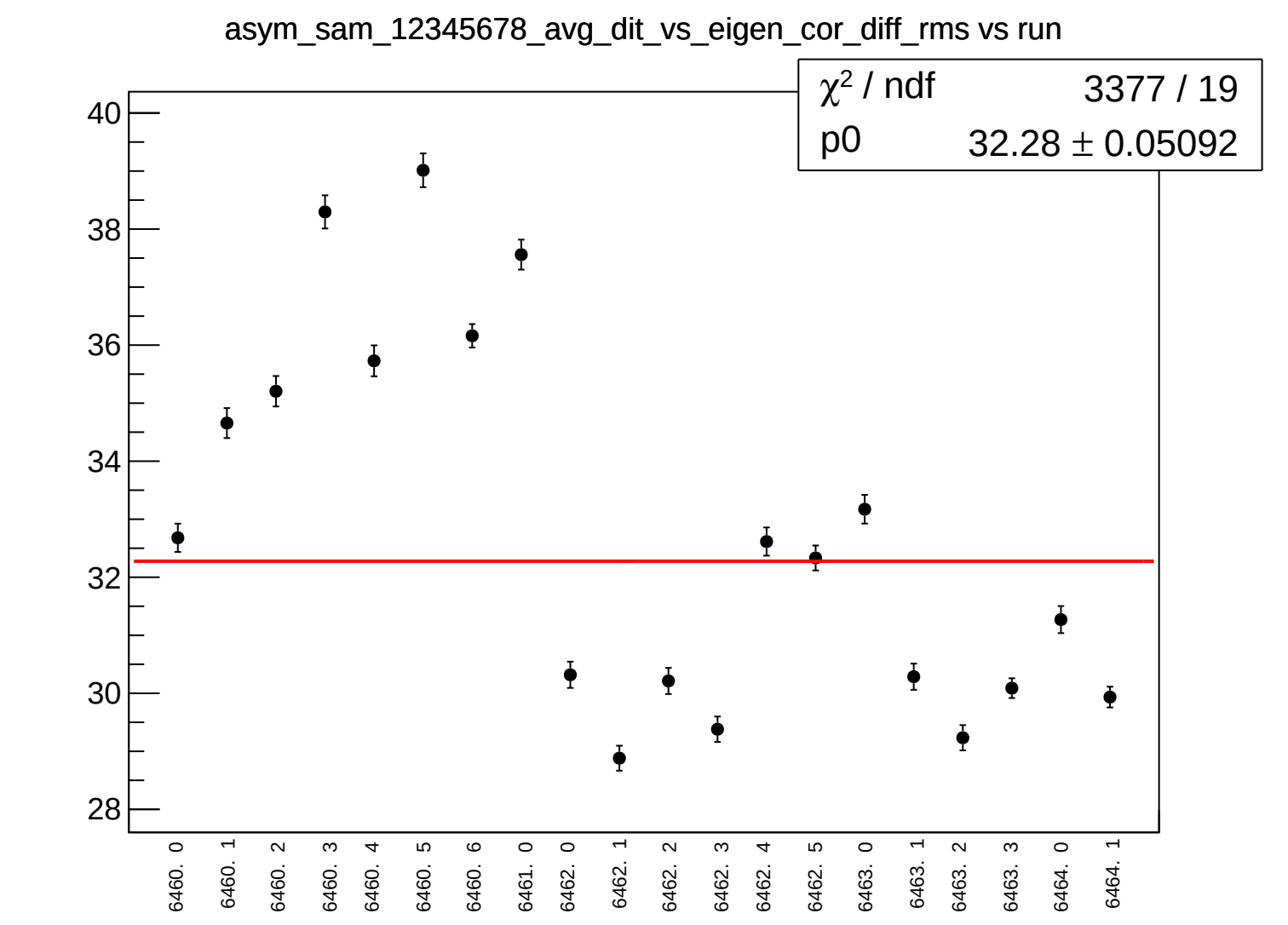

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 23.17 / 19
p0 6.969e−14 ± 6.931e−14
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −1.247
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.145
Std Dev 1.066
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

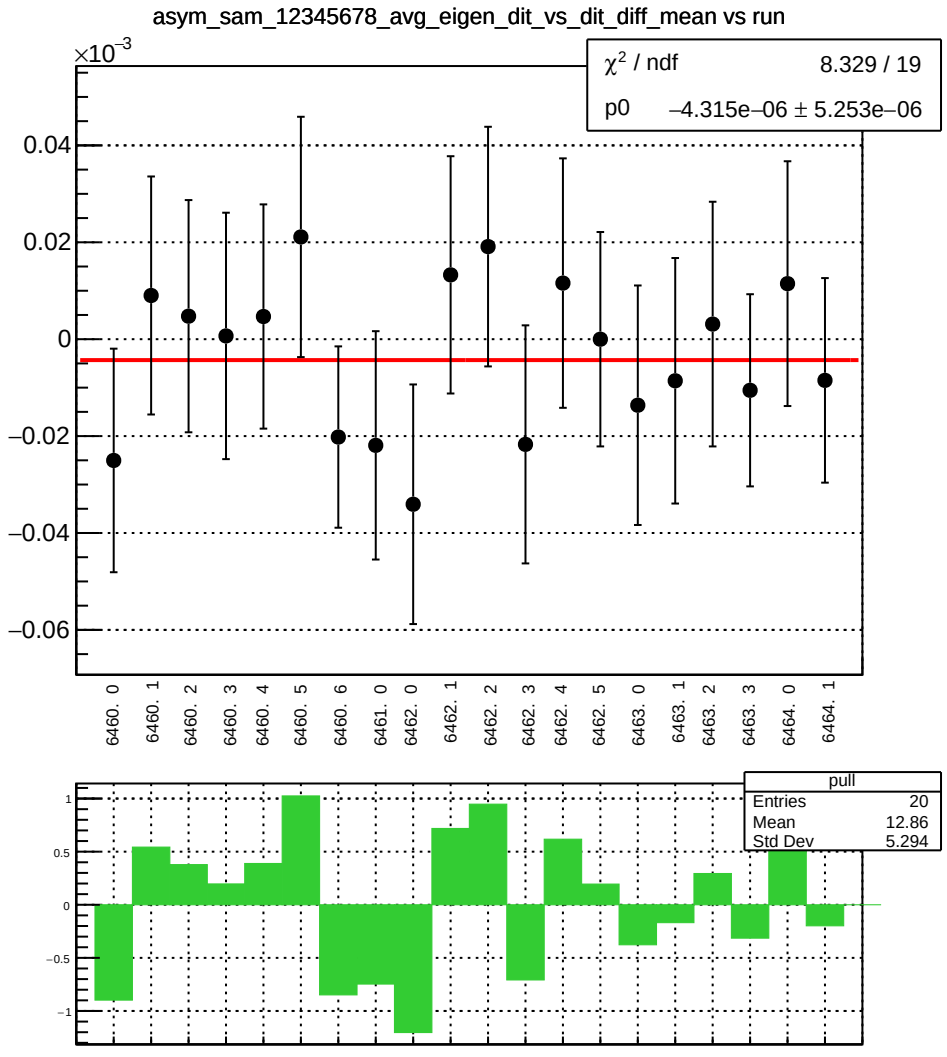

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.924e+05 / 19
p0 1.646e−11 ± 4.901e−14
0.025
0.02
0.015
0.01
0.005
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

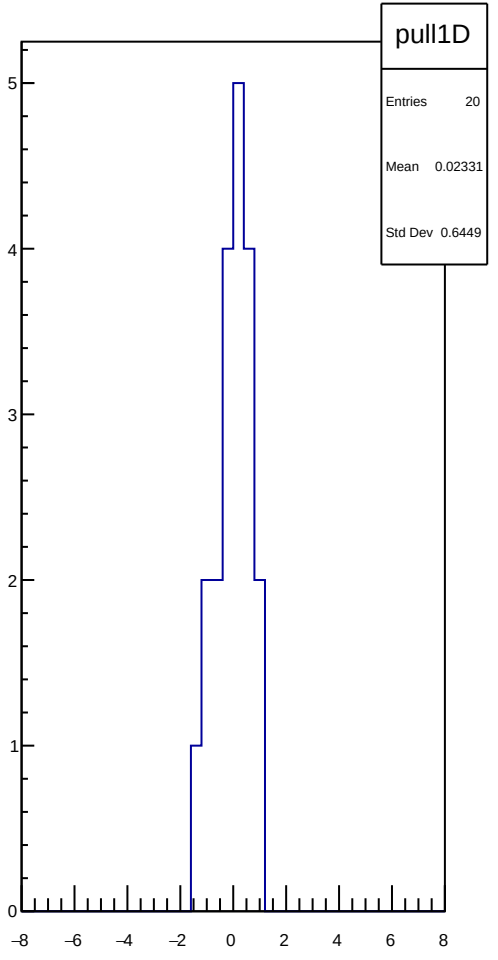

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 11.89 / 19
p0 0.03618 ± 0.07201
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.8405
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0347
Std Dev 0.7702
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

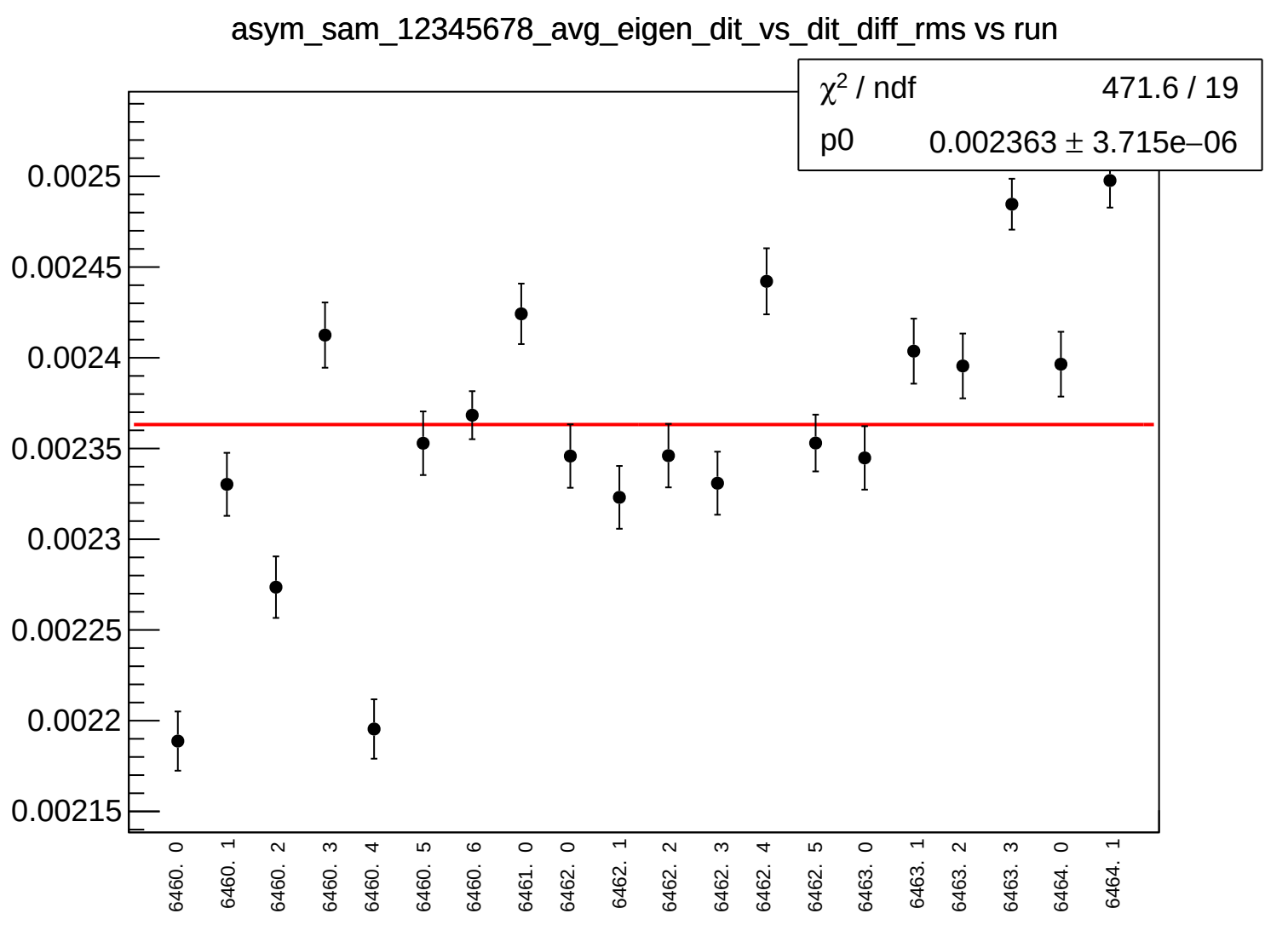

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3377 / 19
p0 32.28 ± 0.05092
40
38
36
34
32
30
28
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

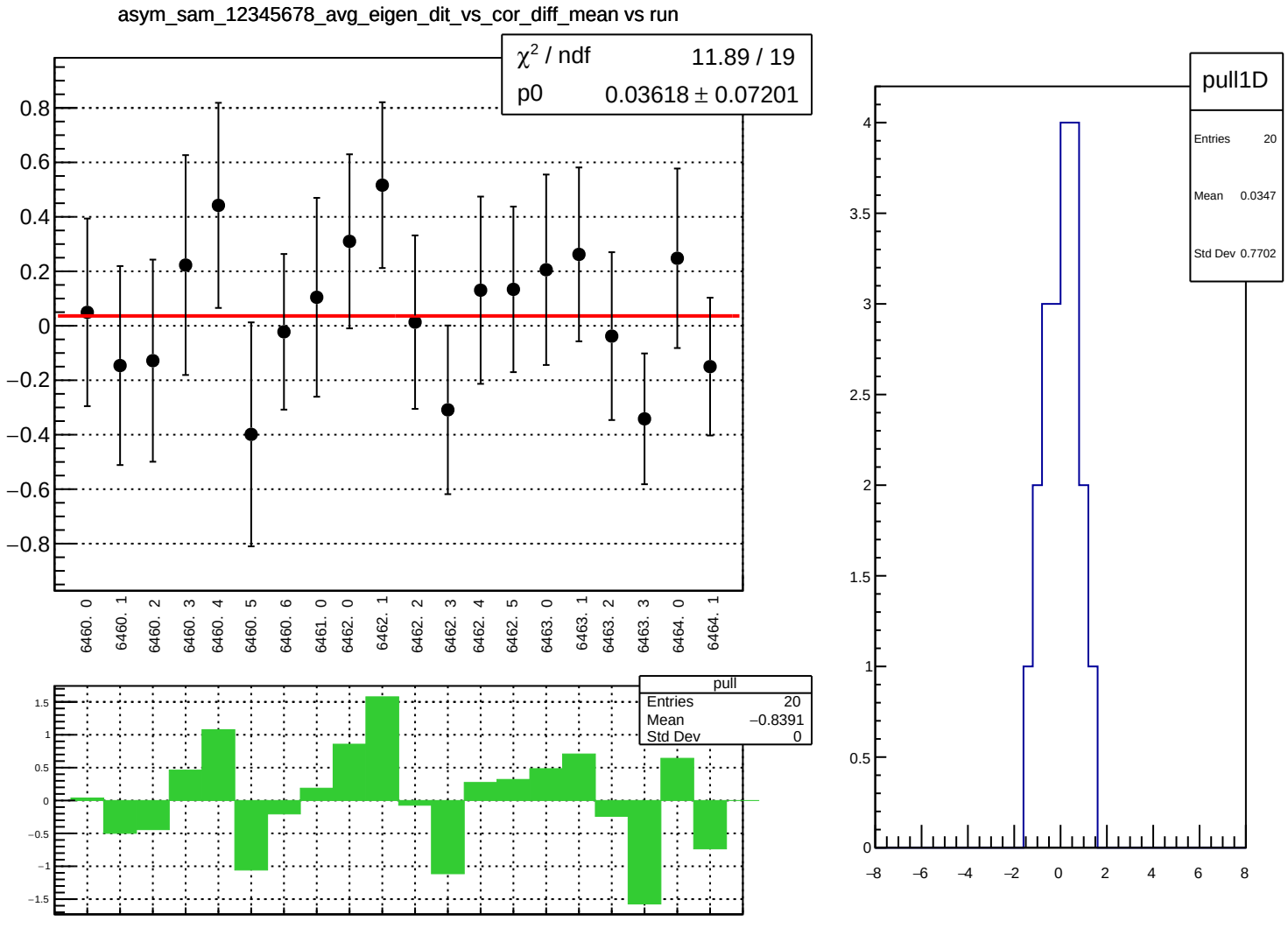

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.89 / 19
p0 0.03618 ± 0.07201
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.8405
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0347
Std Dev 0.7702
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

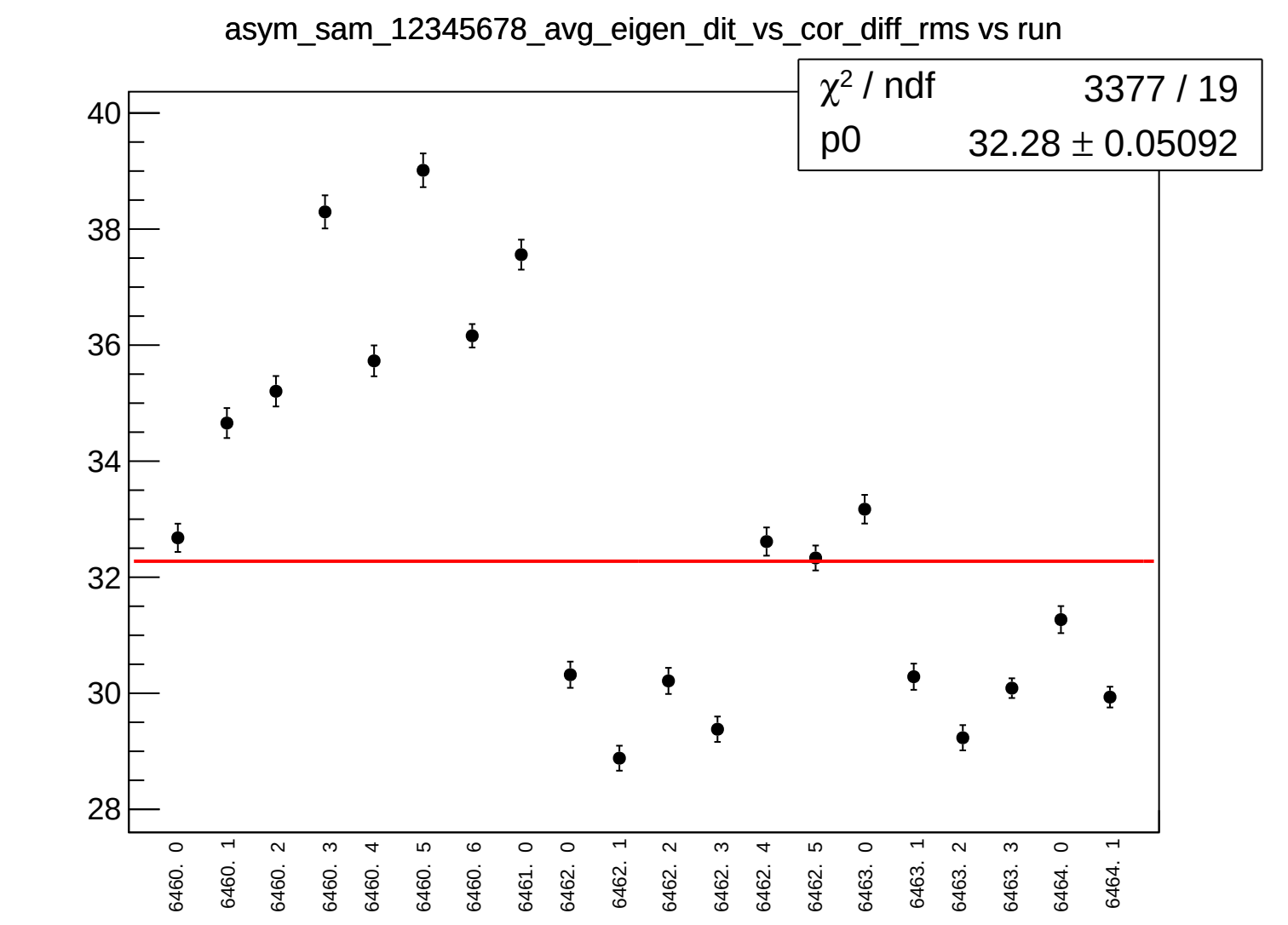

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3377 / 19
p0 32.28 ± 0.05092
40
38
36
34
32
30
28
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

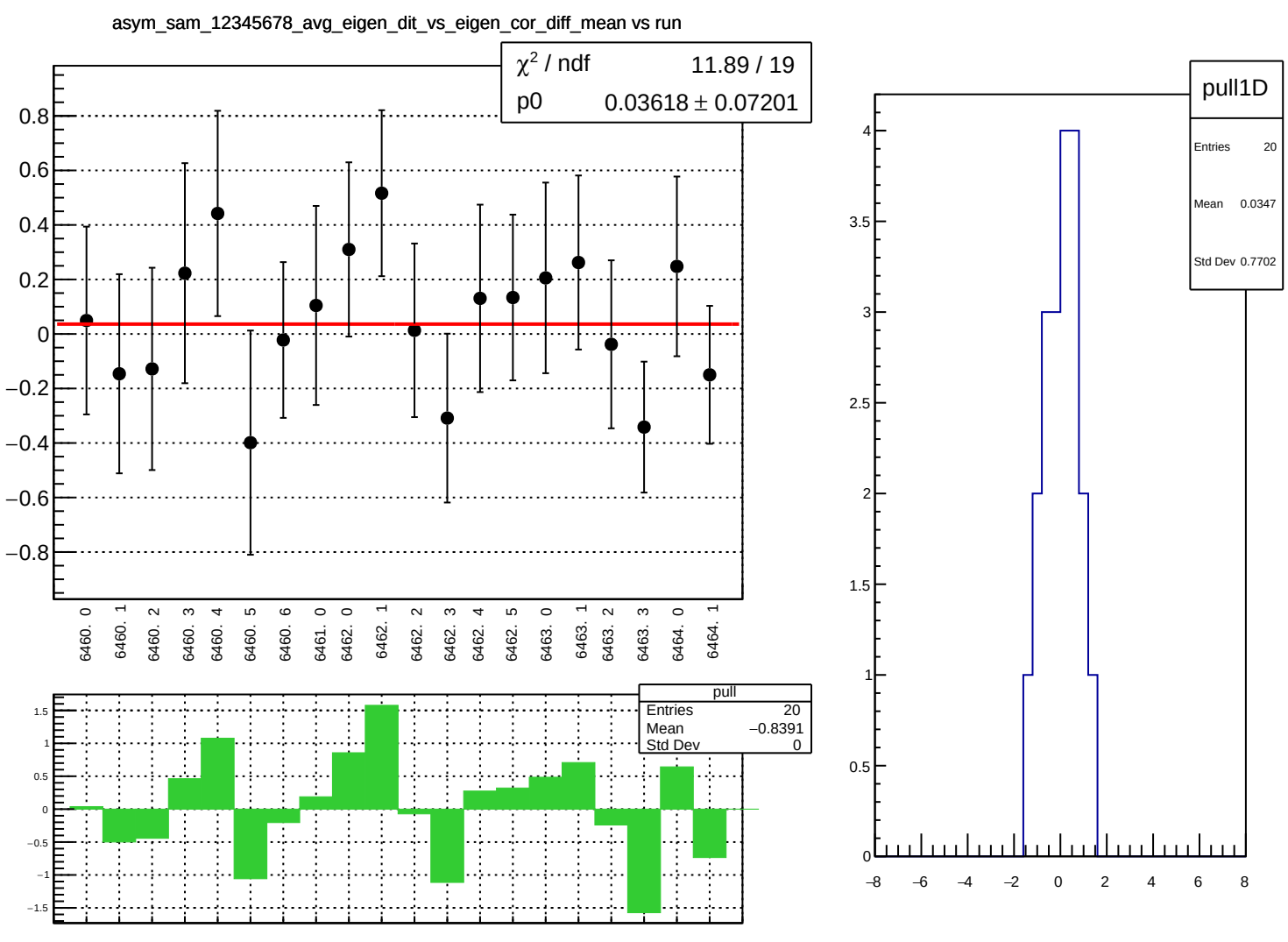

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 8.329 / 19
p0 −4.315e−06 ± 5.253e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.86
Std Dev 5.294
1
0.5
0
−0.5
−1

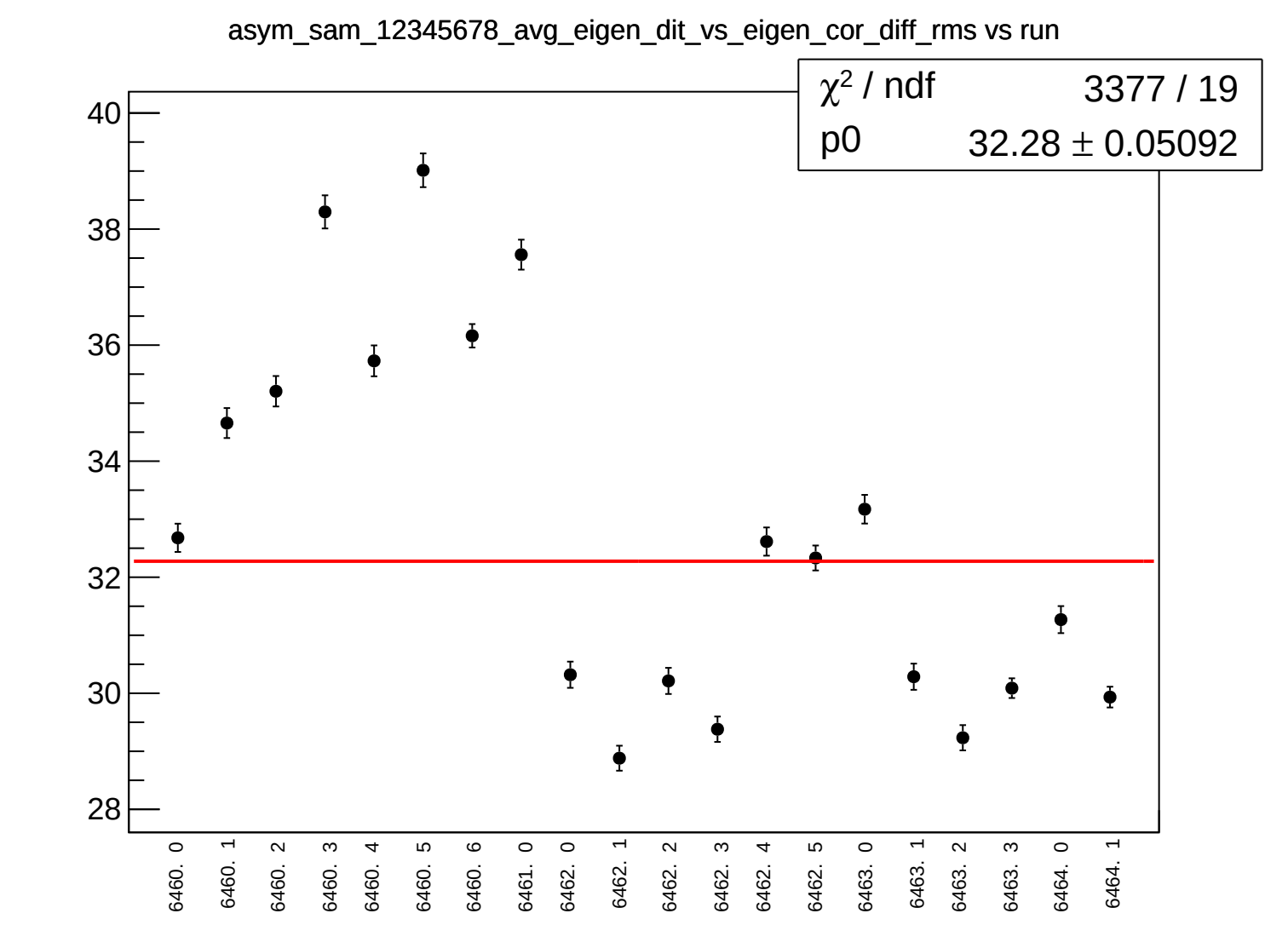

pull1D
Entries 20
Mean 0.02331
Std Dev 0.6449
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

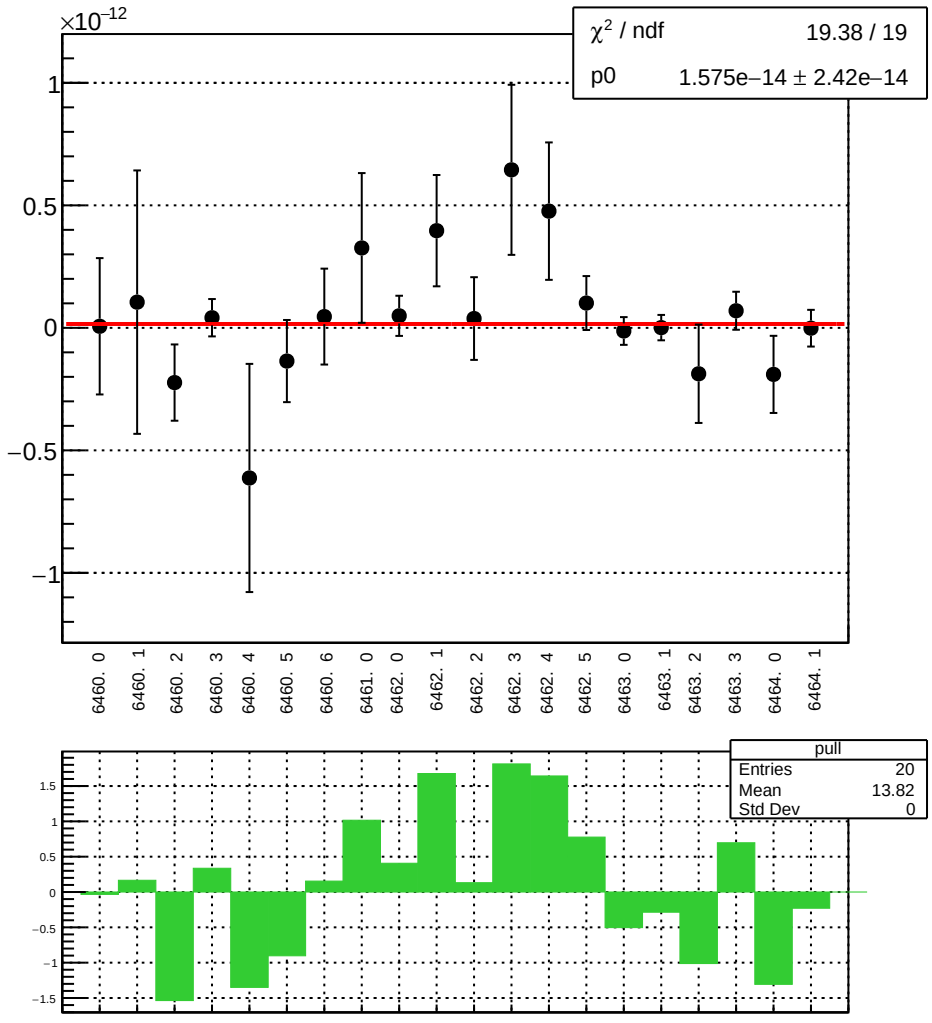

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 471.6 / 19
p0 0.002363 ± 3.715e−06
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022
0.00215
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

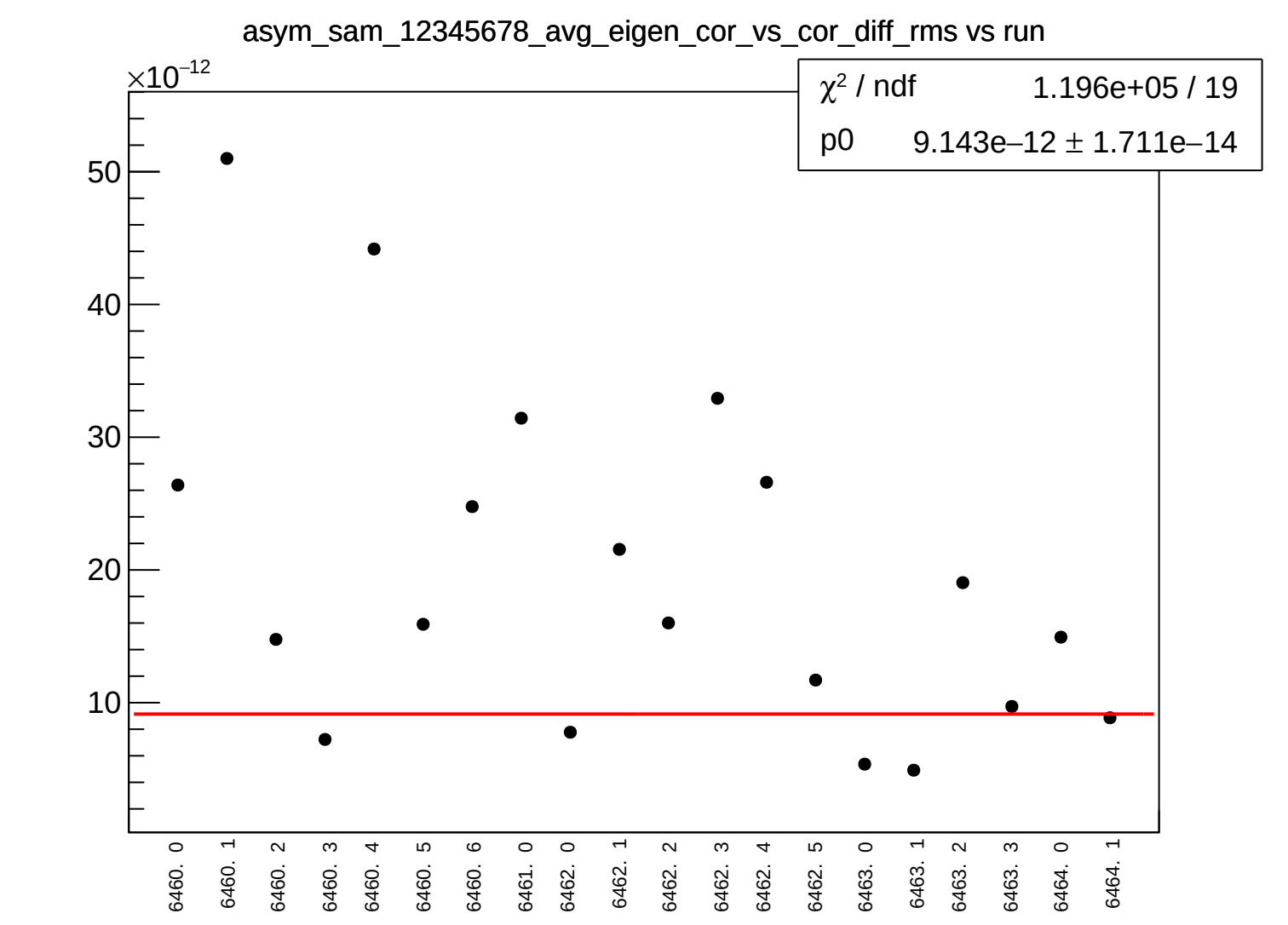

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 11.89 / 19
p0 0.03618 ± 0.07201
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.8391
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0347
Std Dev 0.7702
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

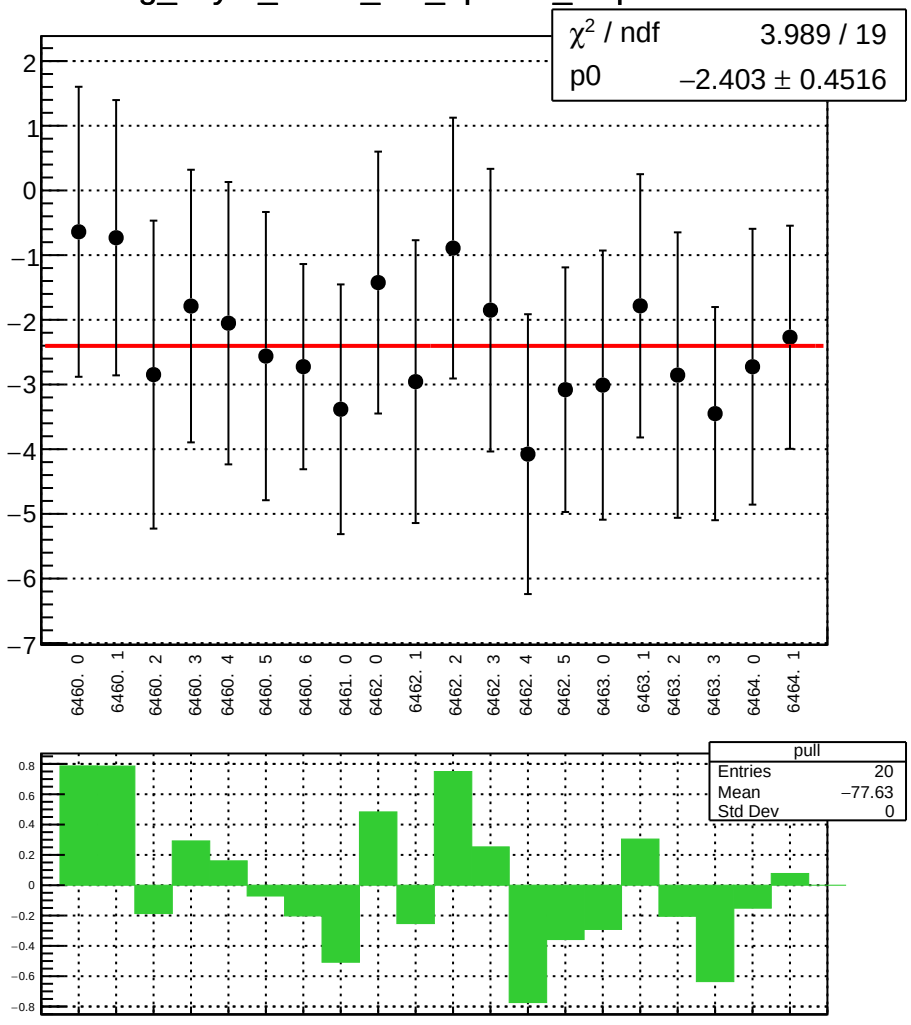

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3377 / 19
p0 32.28 ± 0.05092
40
38
36
34
32
30
28
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

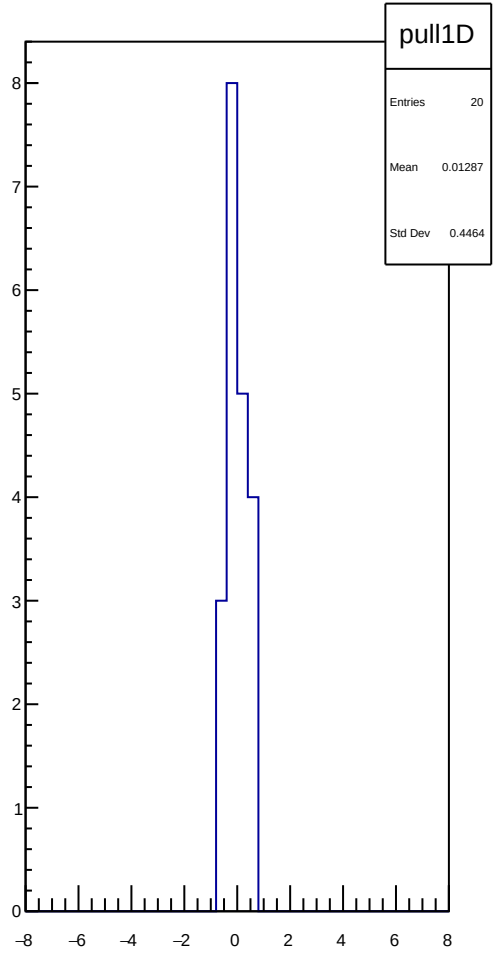

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 11.89 / 19
p0 0.03618 ± 0.07201
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.8391
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.0347
Std Dev 0.7702
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

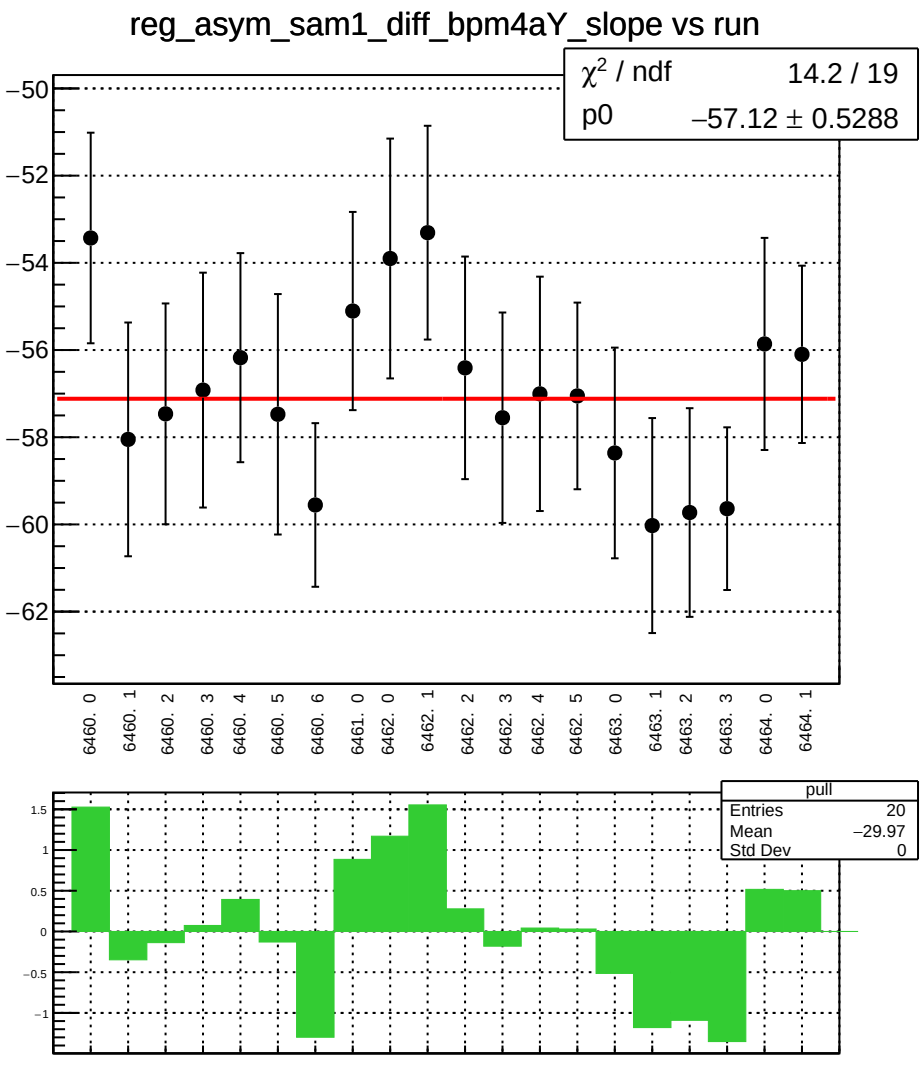

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3377 / 19
p0 32.28 ± 0.05092
40
38
36
34
32
30
28
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

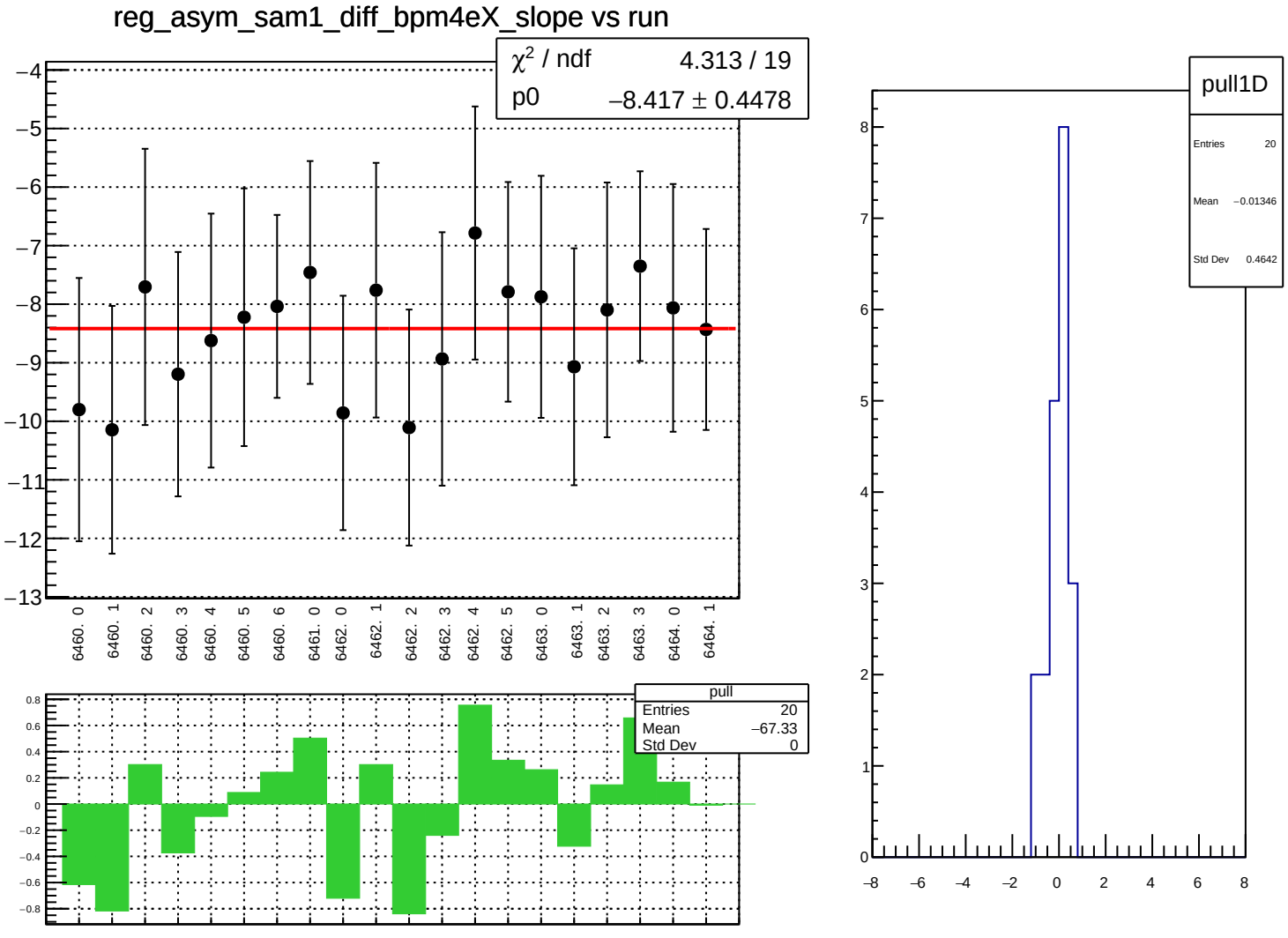

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.38 / 19
p0 1.575e−14 ± 2.42e−14
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 13.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.08289
Std Dev 0.9809
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

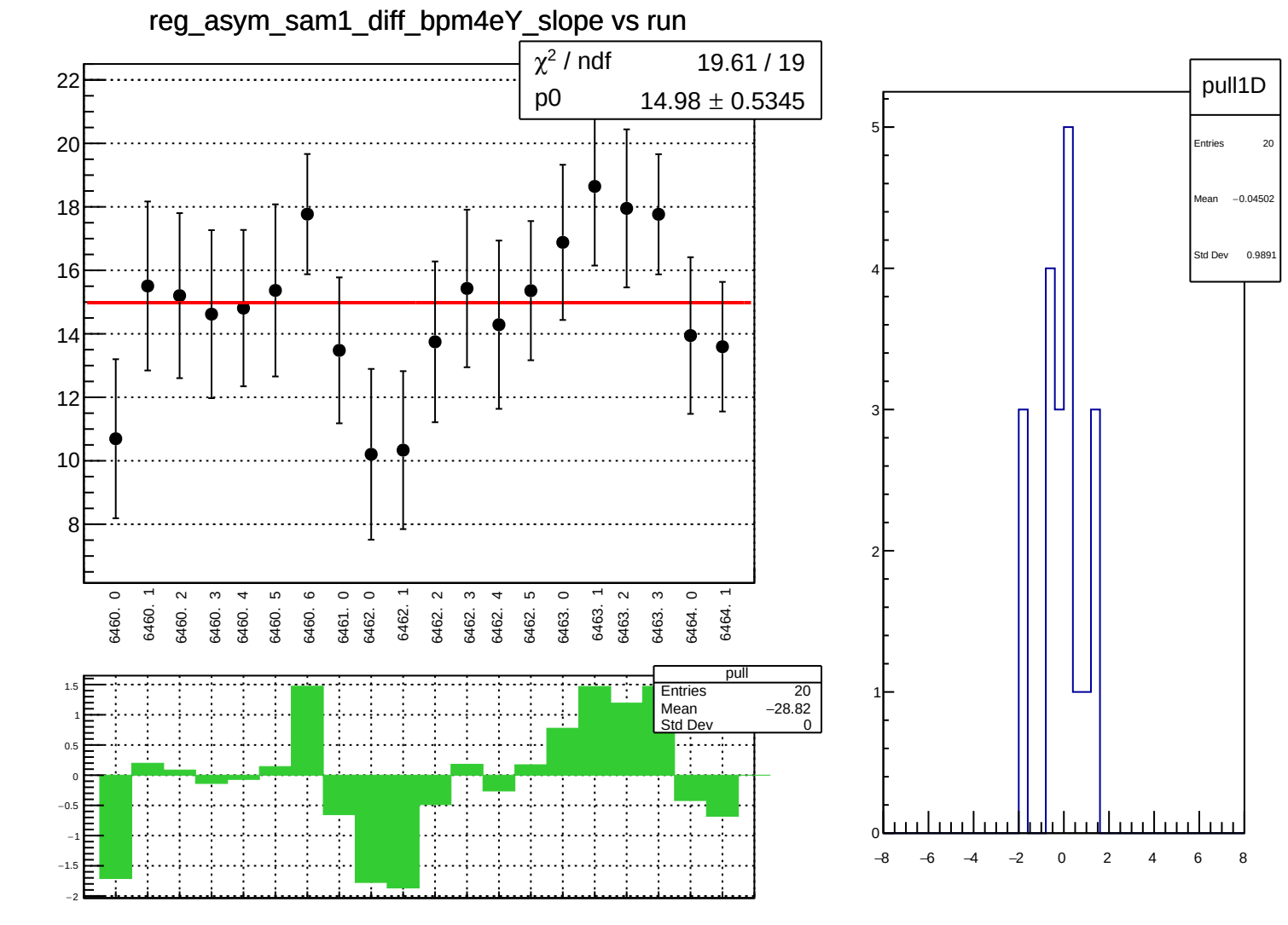

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.196e+05 / 19
p0 9.143e−12 ± 1.711e−14
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

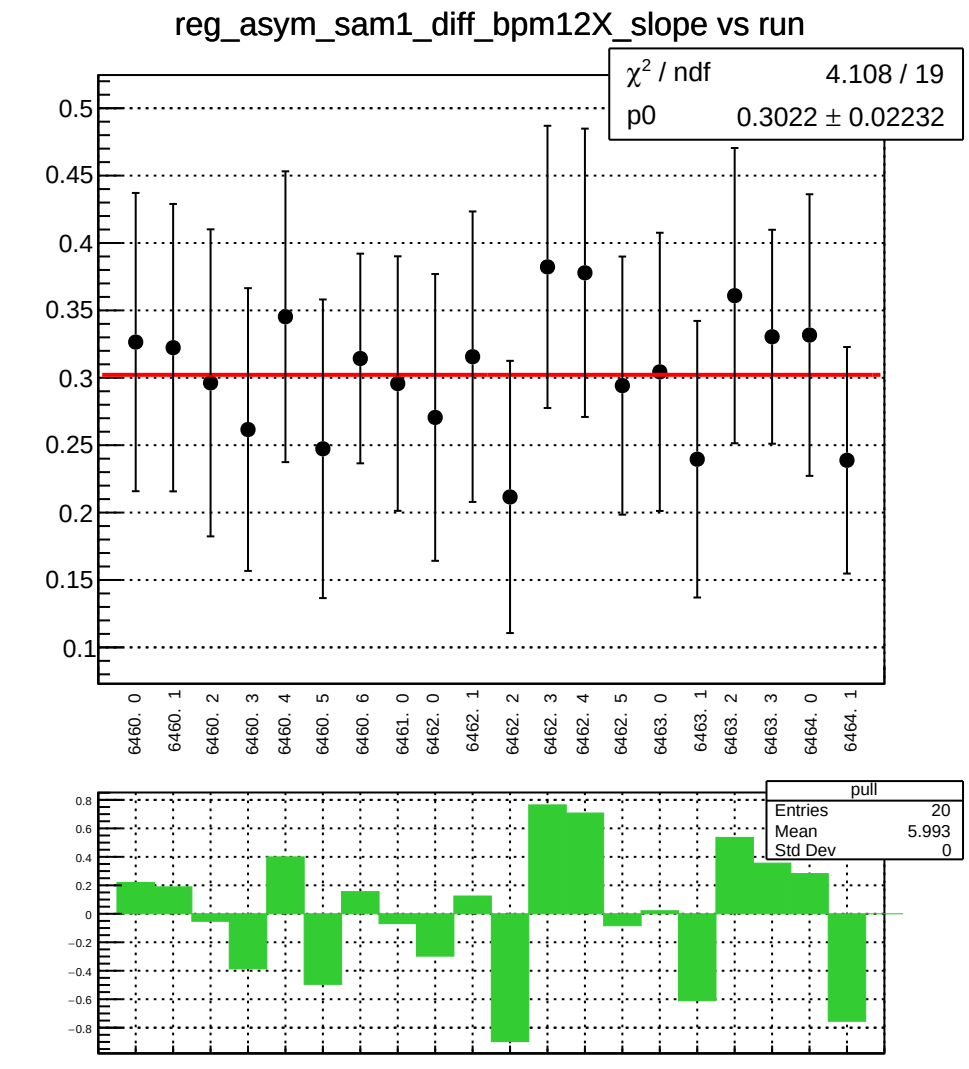

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 3.989 / 19
p0 −2.403 ± 0.4516
pull
Entries 20
Mean −77.63
Std Dev 0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

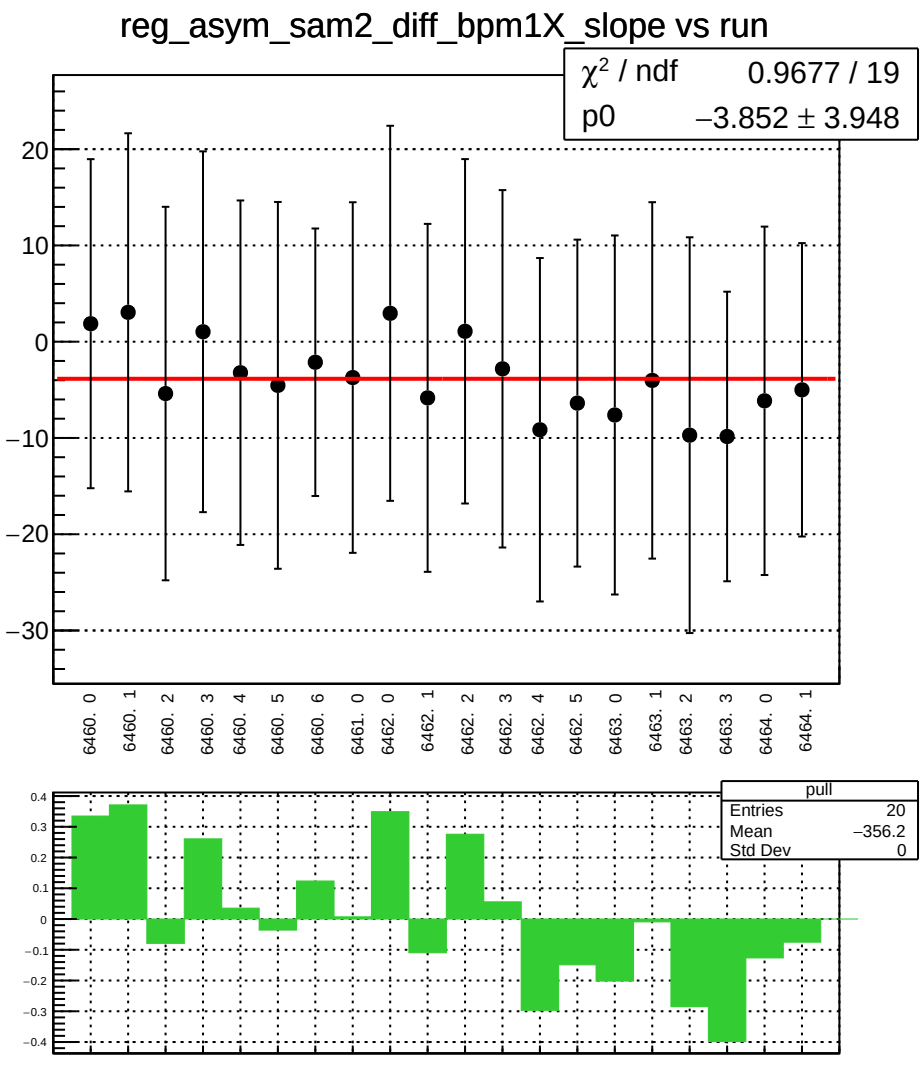

pull1D
Entries 20
Mean 0.01287
Std Dev 0.4464

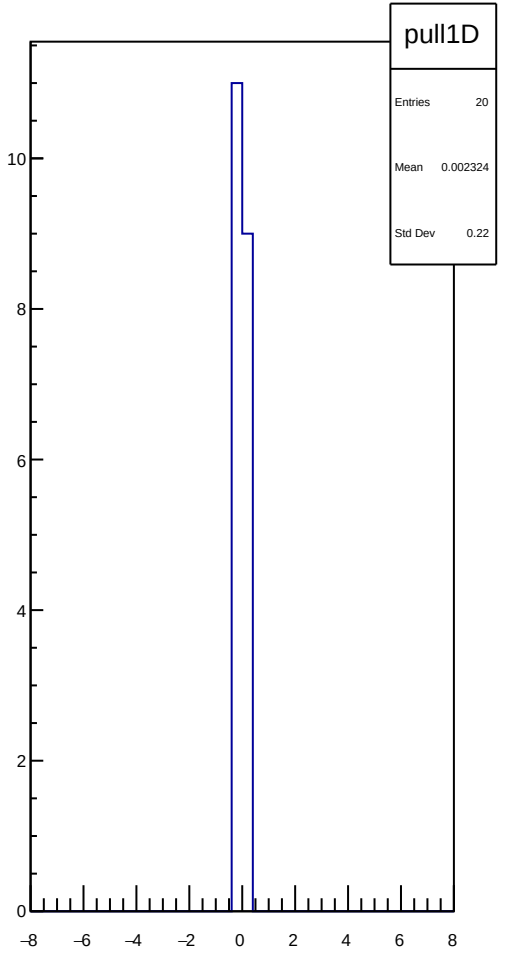

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 14.2 / 19
p0 −57.12 ± 0.5288
−50
−52
−54
−56
−58
−60
−62
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.037
Std Dev 0.8418
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

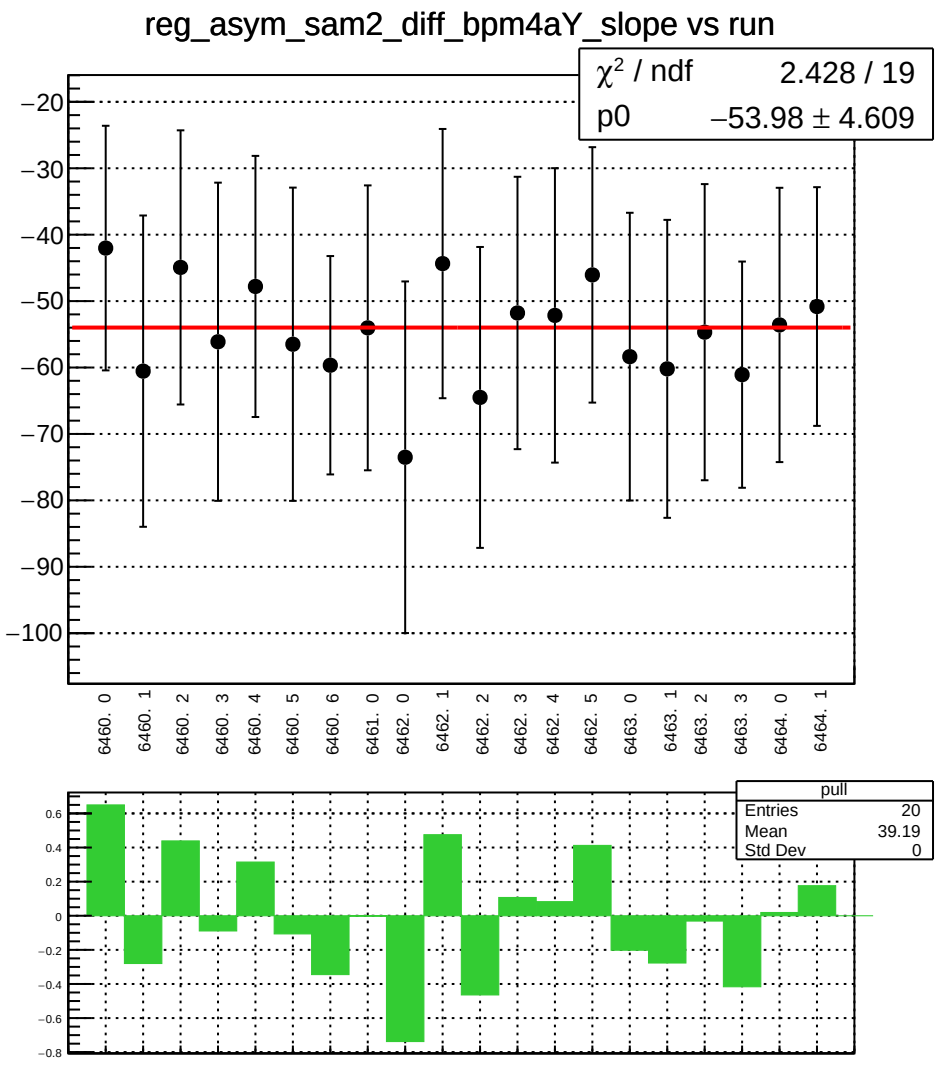

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 4.313 / 19
p0 −8.417 ± 0.4478
−4
−5
−6
−7
−8
−9
−10
−11
−12
−13
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −67.33
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.01346
Std Dev 0.4642
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

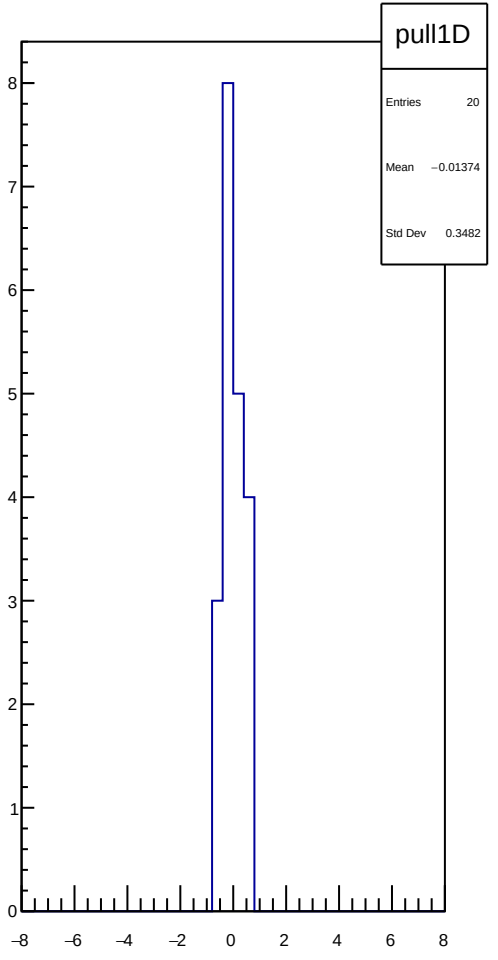

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 19.61 / 19
p0 14.98 ± 0.5345
22
20
18
16
14
12
10
8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −28.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.04502
Std Dev 0.9891
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

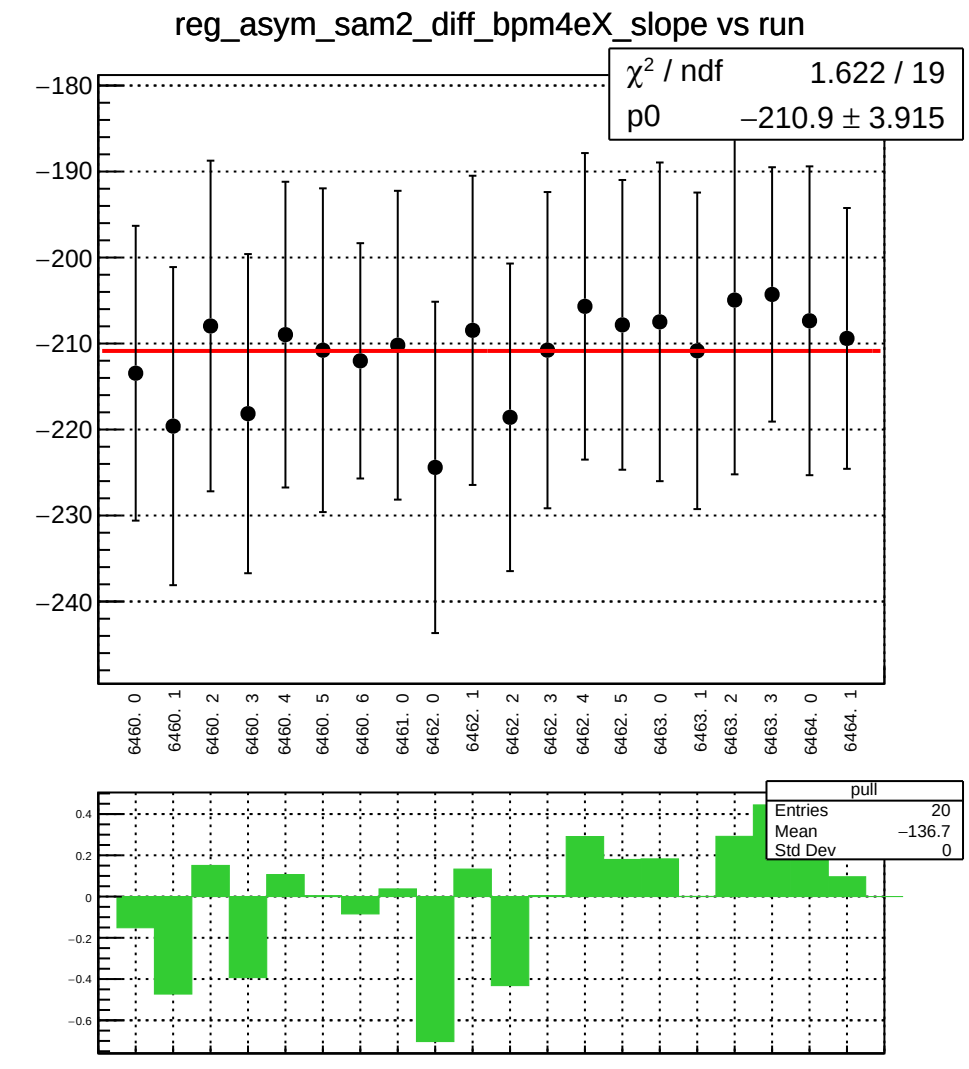

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 4.108 / 19
p0 0.3022 ± 0.02232
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.993
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.00551
Std Dev 0.4532
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

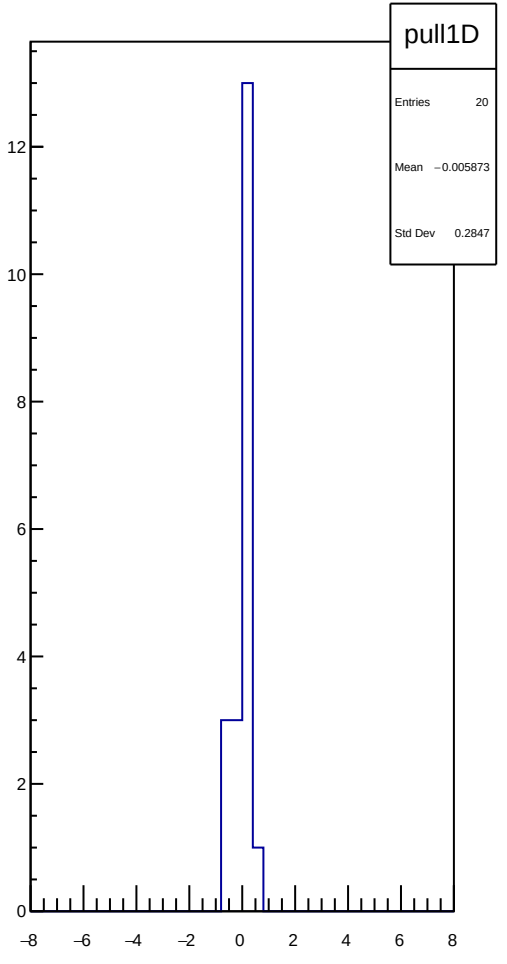

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.9677 / 19
p0 −3.852 ± 3.948
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −356.2
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

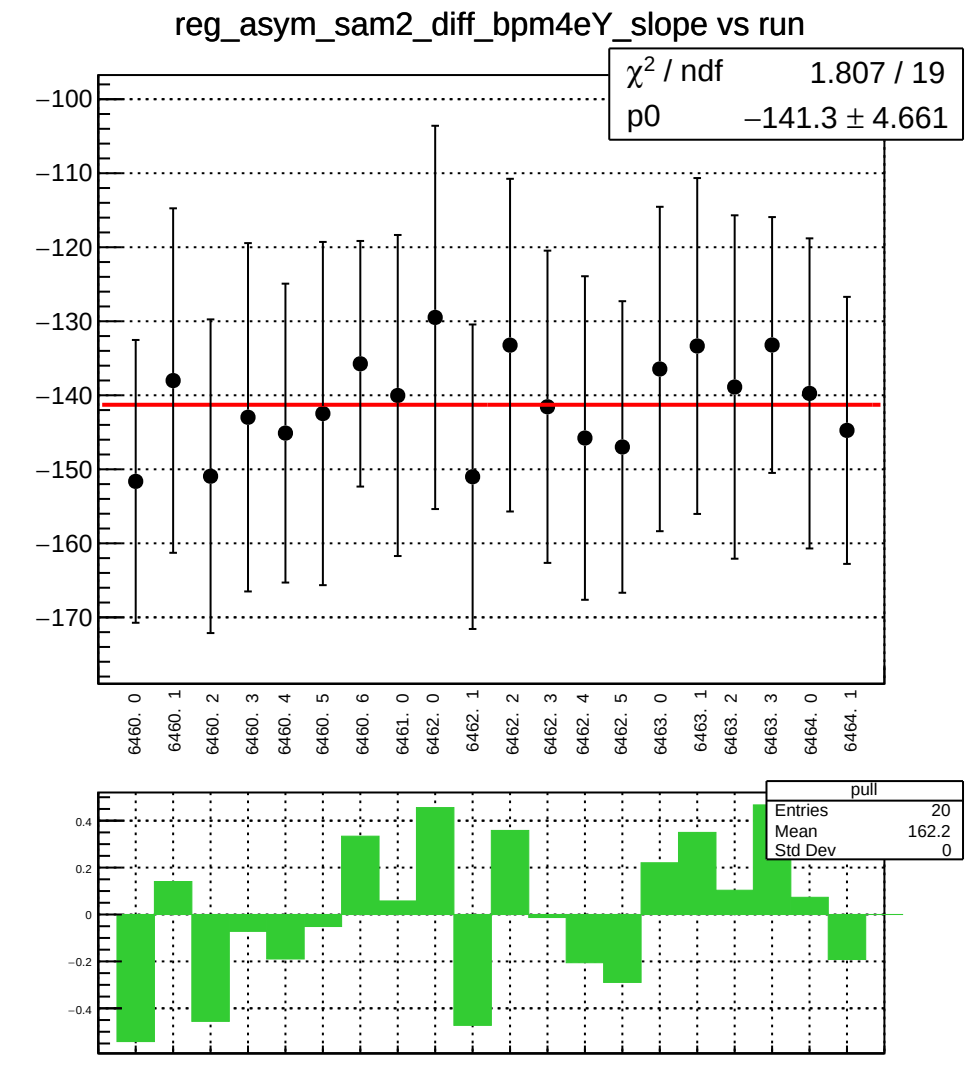

pull1D
Entries 20
Mean 0.002324
Std Dev 0.22
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

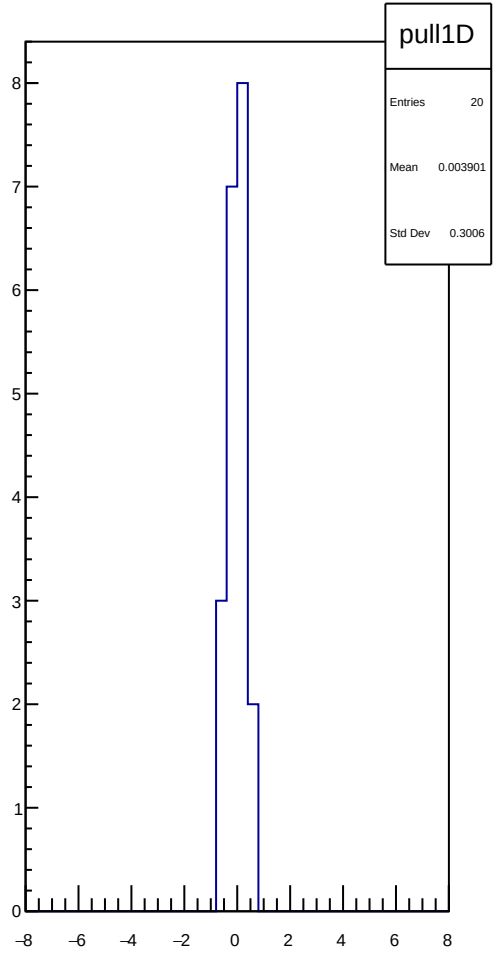

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.428 / 19
p0 −53.98 ± 4.609
−20
−30
−40
−50
−60
−70
−80
−90
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.19
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

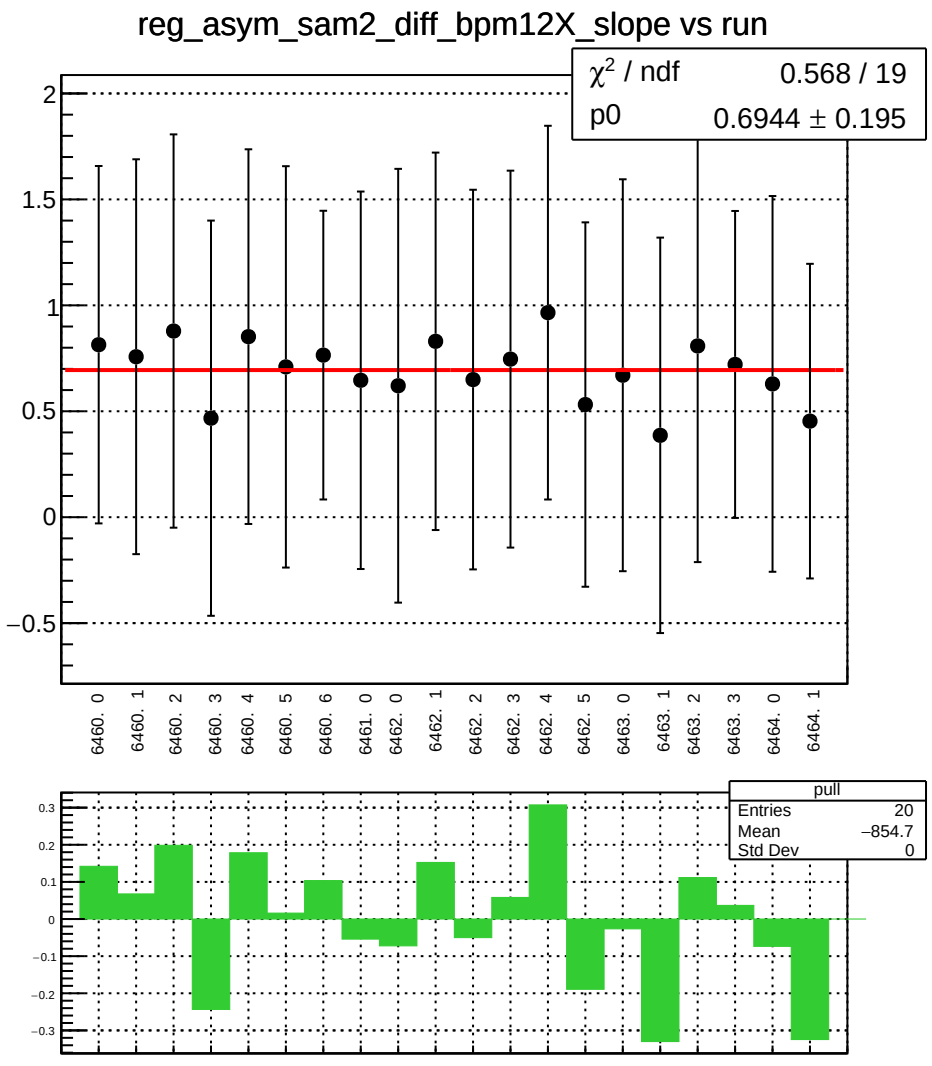

pull1D
Entries 20
Mean −0.01374
Std Dev 0.3482
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

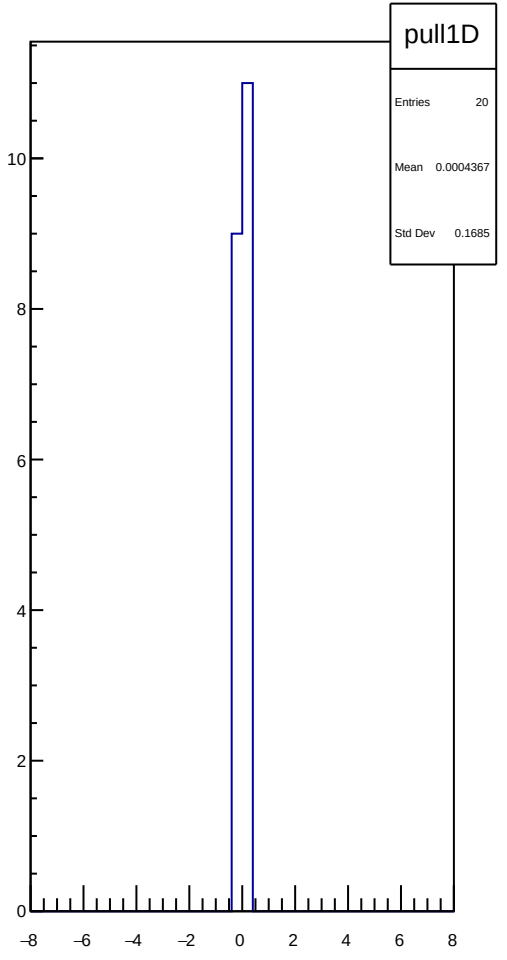

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.622 / 19
p0 −210.9 ± 3.915
−180
−190
−200
−210
−220
−230
−240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −136.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

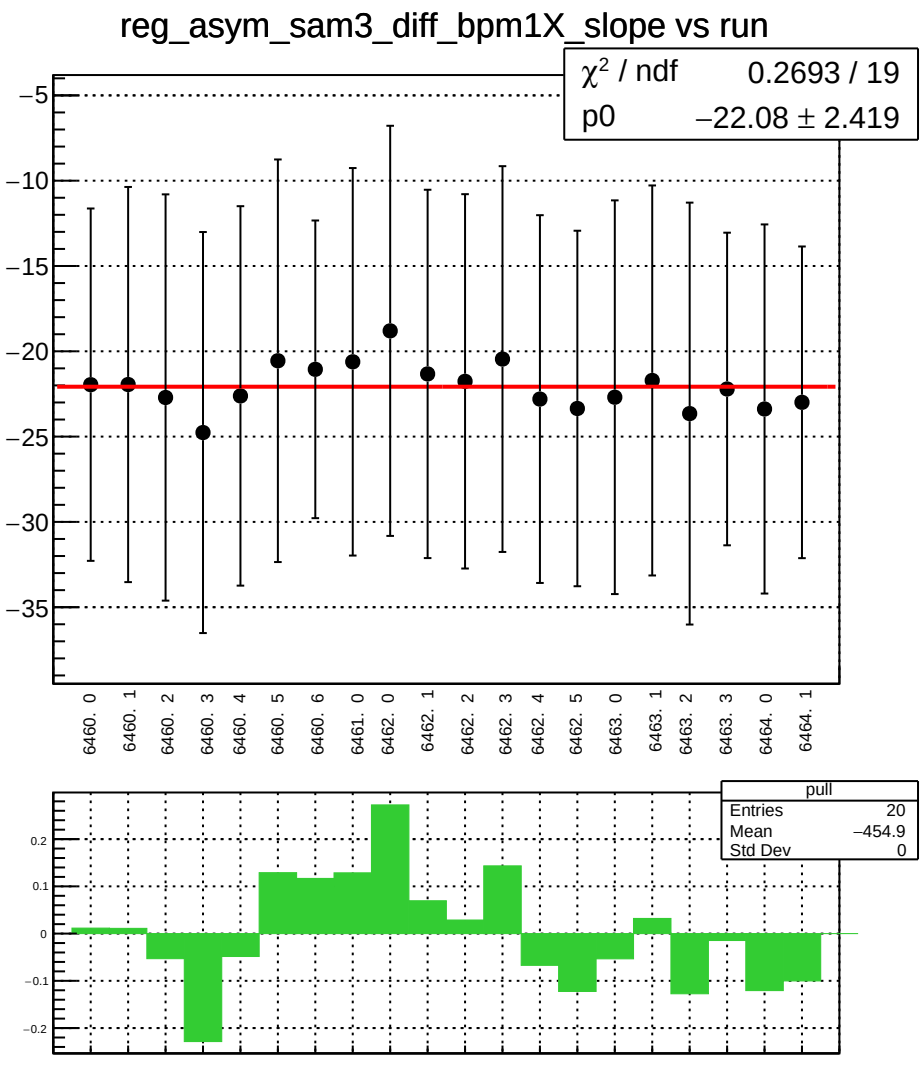

pull1D
Entries 20
Mean −0.005873
Std Dev 0.2847
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

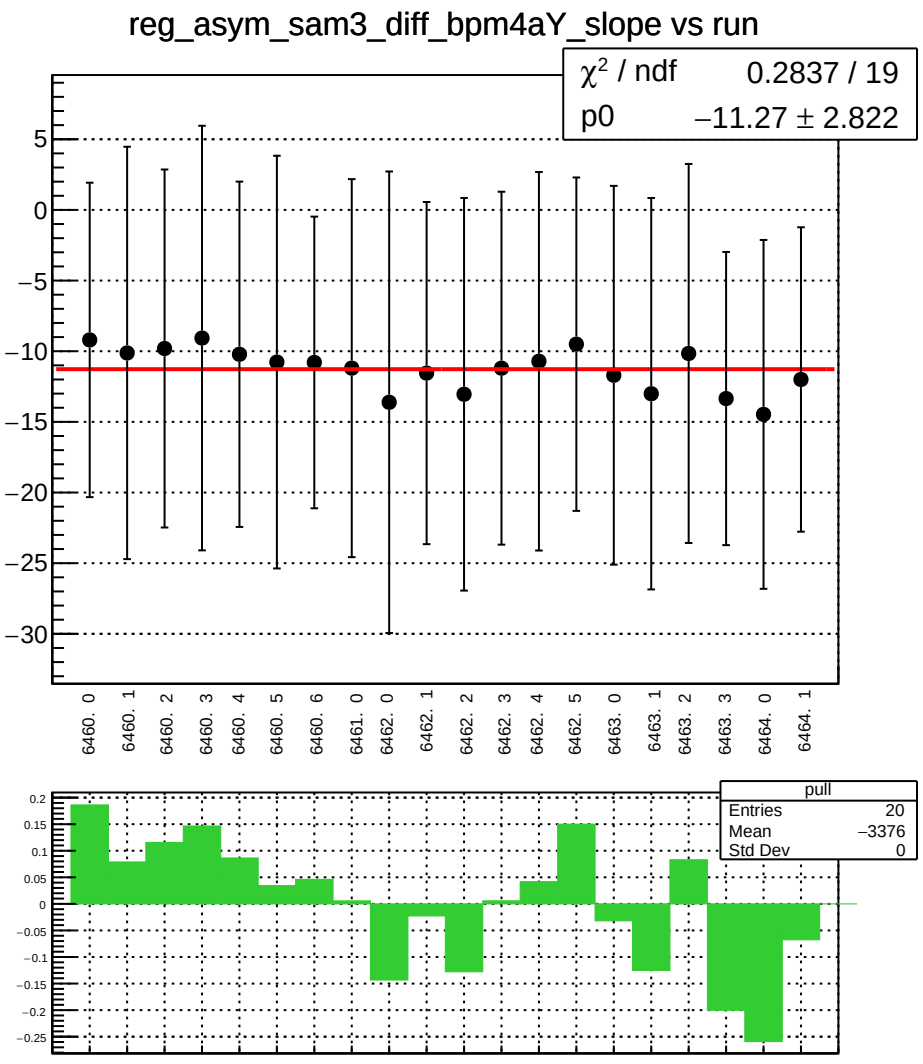

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.807 / 19
p0 −141.3 ± 4.661
−100
−110
−120
−130
−140
−150
−160
−170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 162.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4

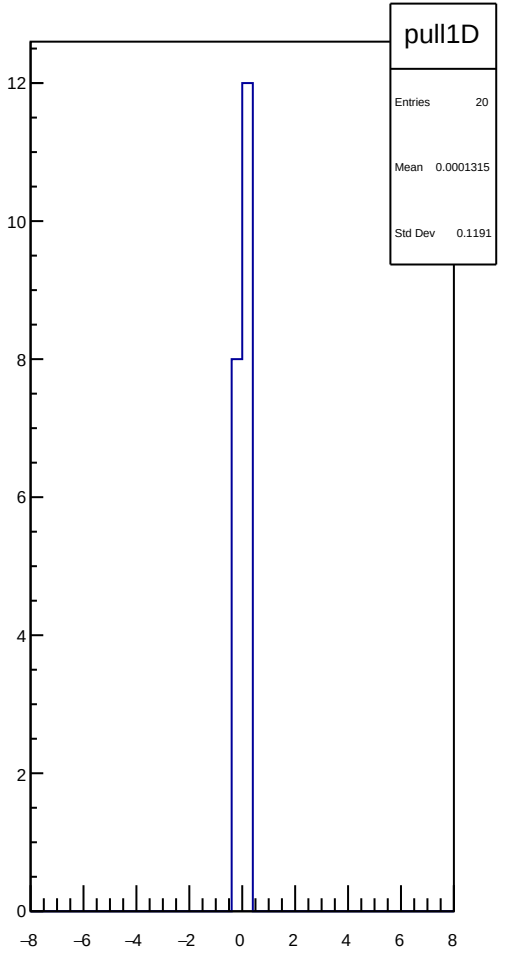

pull1D
Entries 20
Mean 0.003901
Std Dev 0.3006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

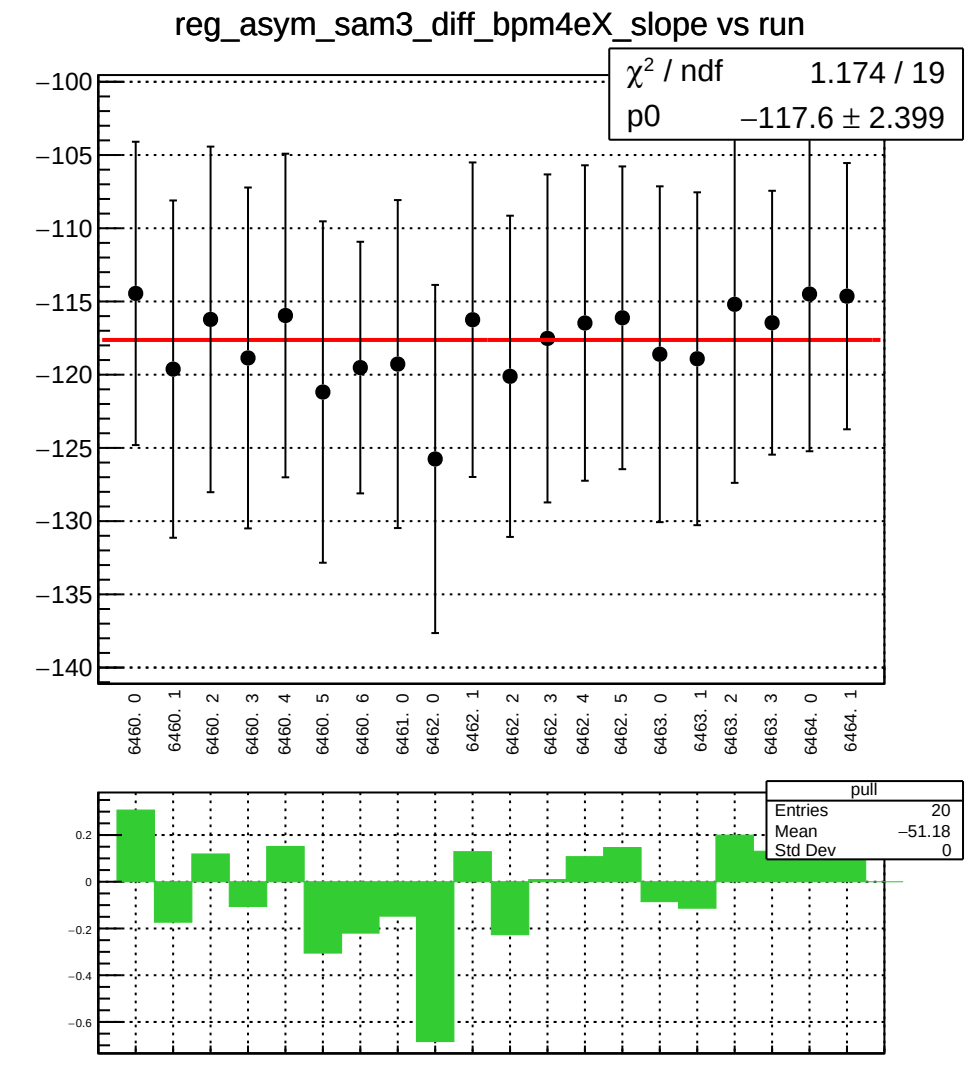

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.568 / 19
p0 0.6944 ± 0.195
2
1.5
1
0.5
0
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −854.7
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

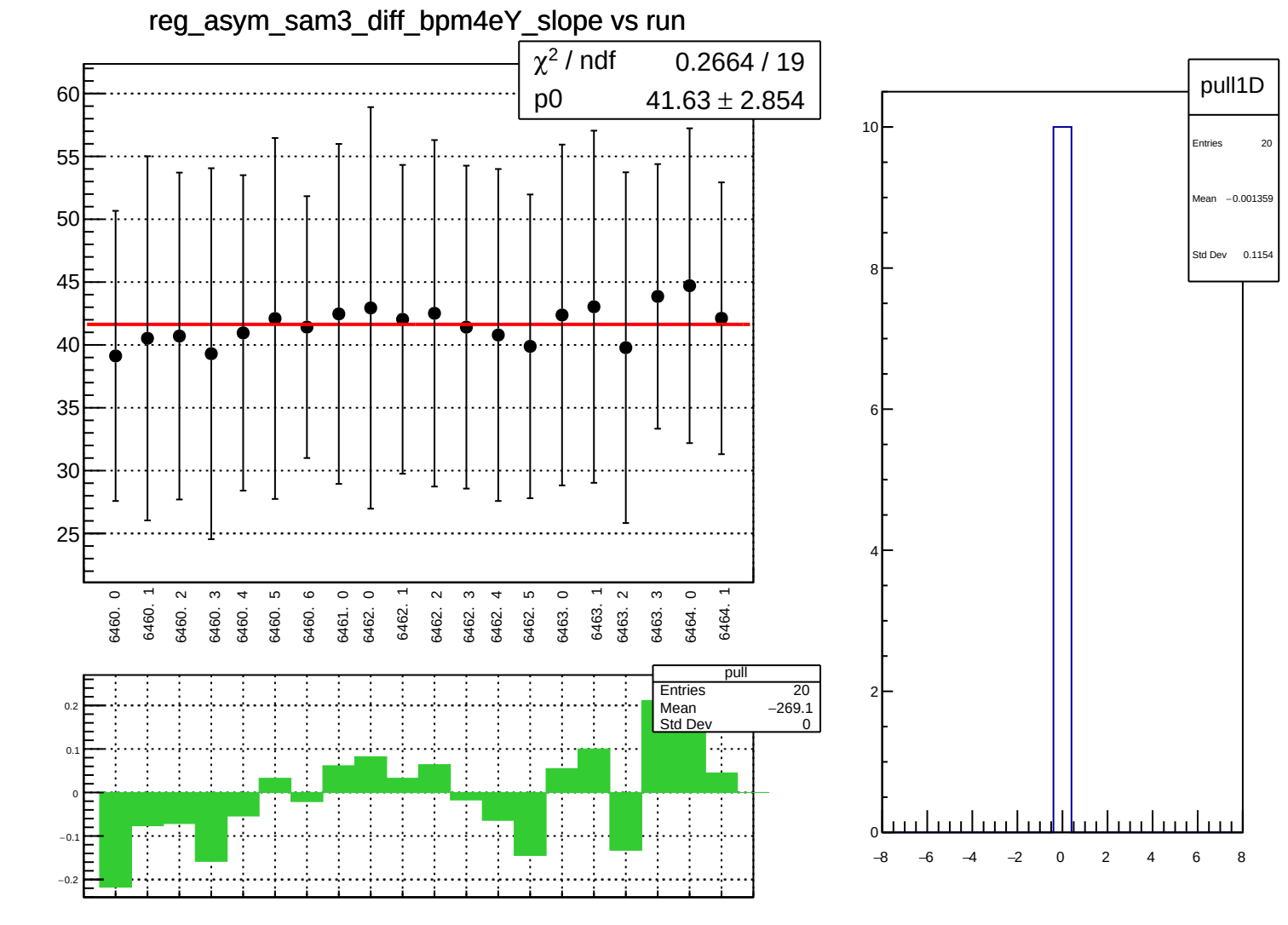

pull1D
Entries 20
Mean 0.0004367
Std Dev 0.1685
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

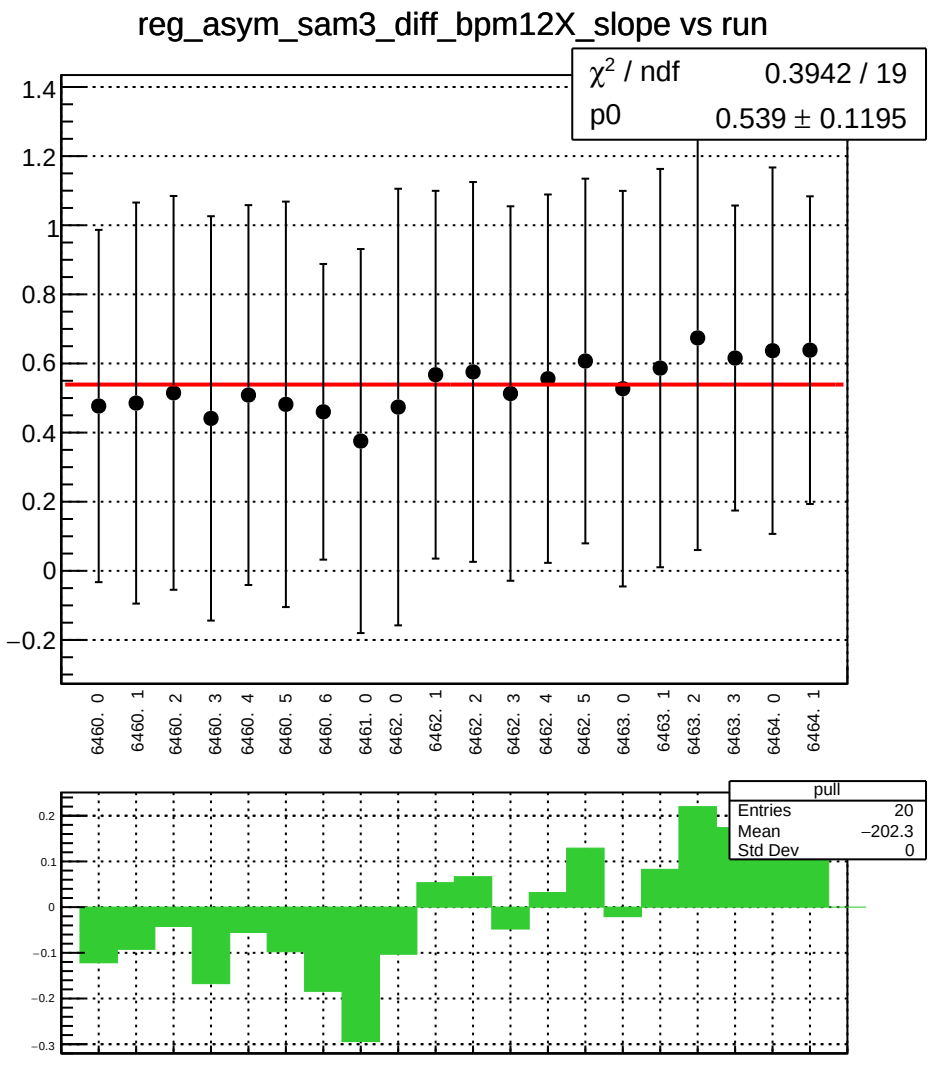

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 0.2693 / 19
p0 −22.08 ± 2.419
−5
−10
−15
−20
−25
−30
−35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −454.9
Std Dev 0
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 20
Mean 0.0003392
Std Dev 0.116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

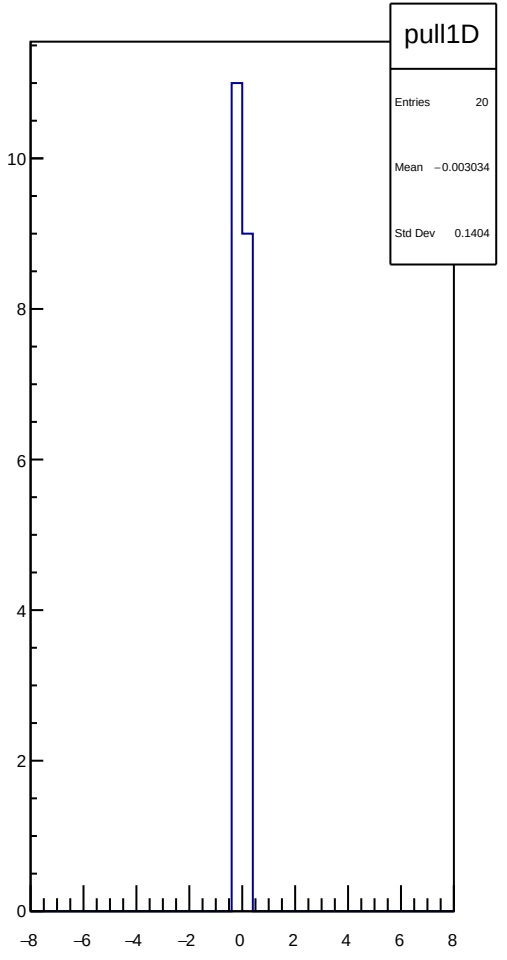

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.2837 / 19
p0 −11.27 ± 2.822
5
0
−5
−10
−15
−20
−25
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −3376
Std Dev 0
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

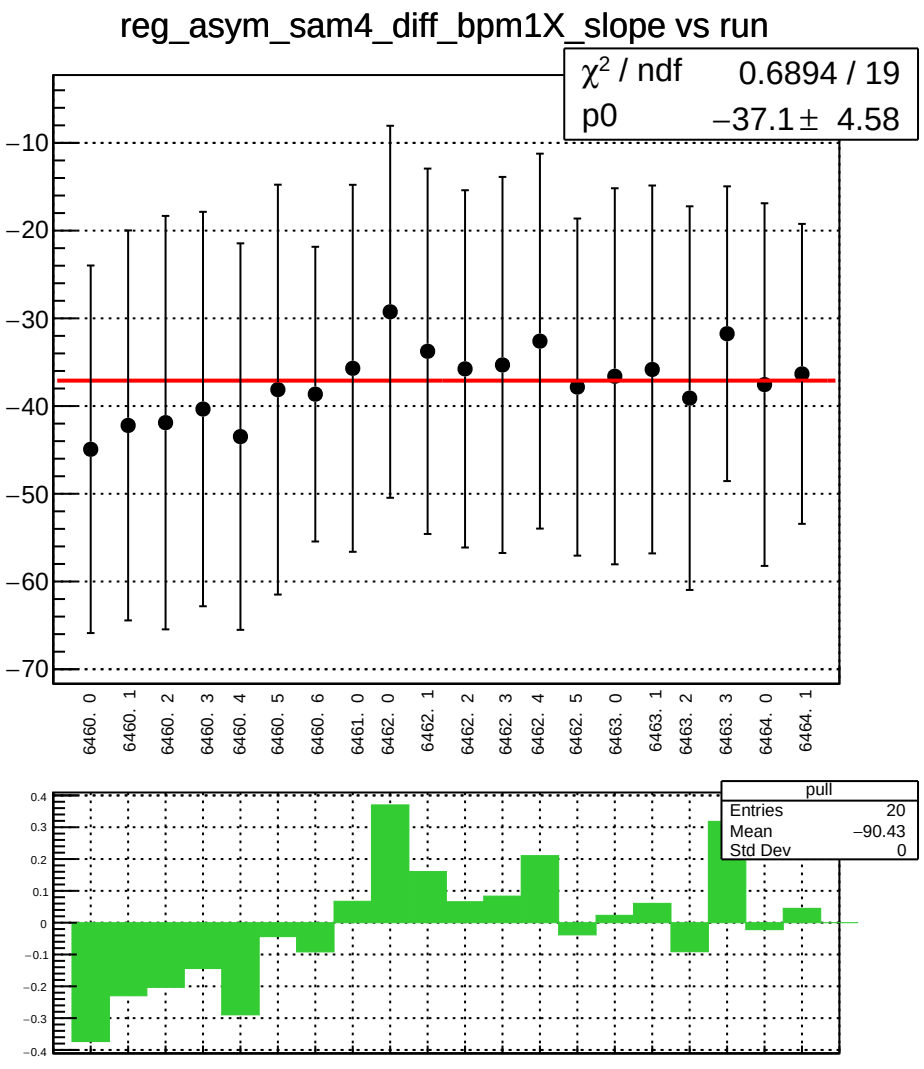

pull1D
Entries 20
Mean 0.0001315
Std Dev 0.1191
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

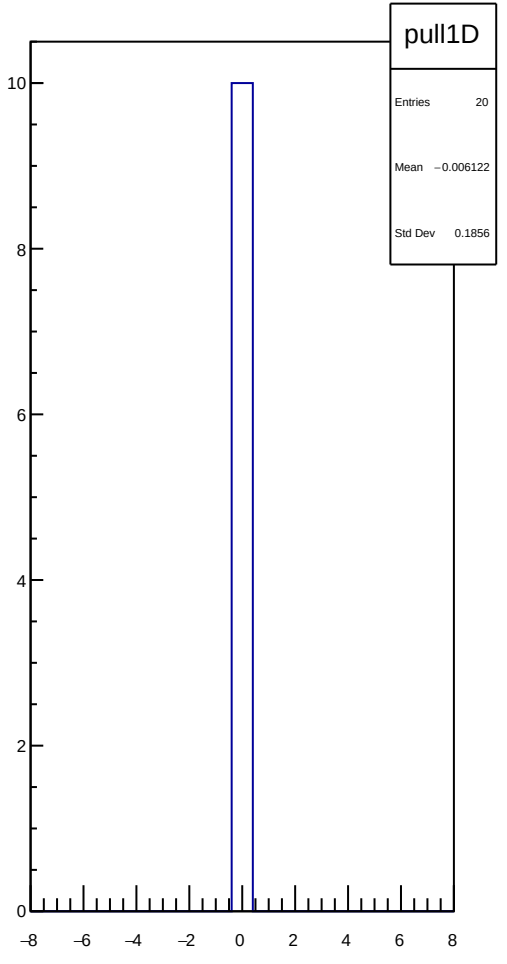

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 1.174 / 19
p0 −117.6 ± 2.399
−100
−105
−110
−115
−120
−125
−130
−135
−140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −51.18
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.006987
Std Dev 0.2422
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

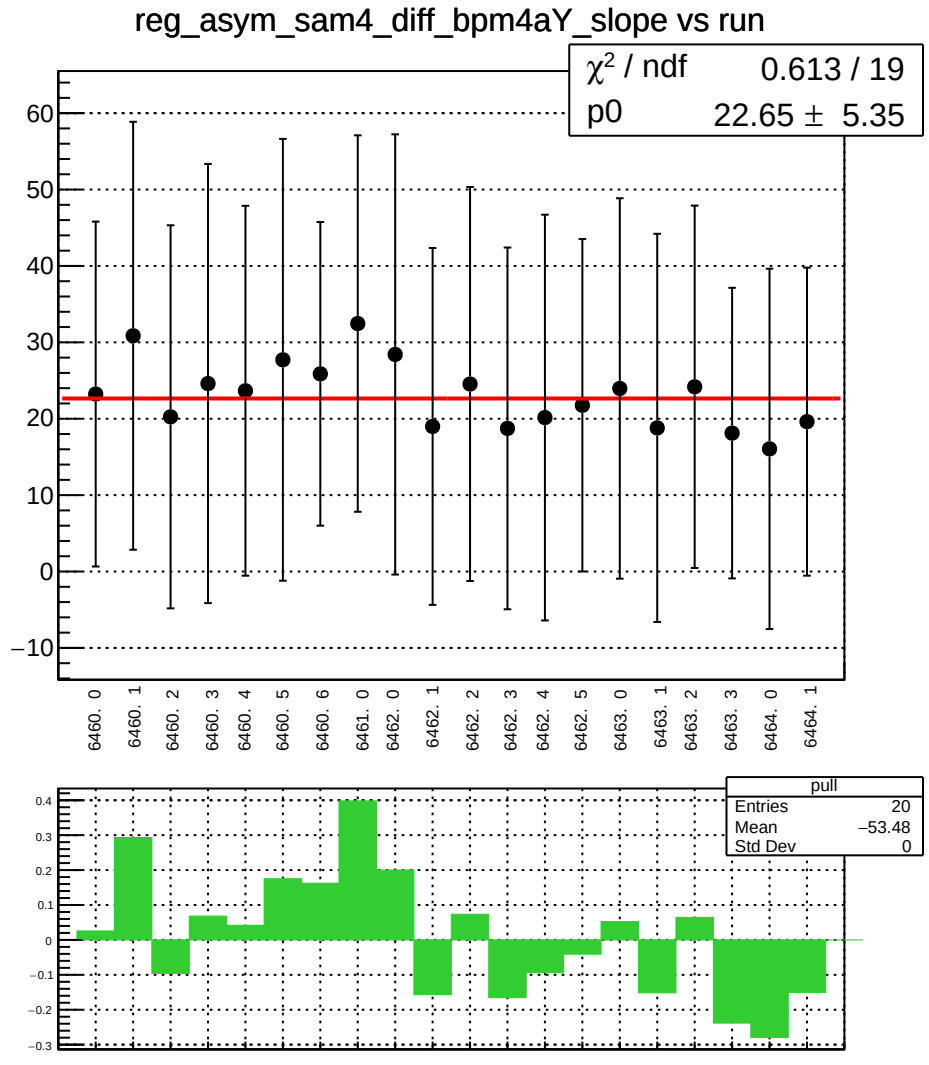

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.2664 / 19
p0 41.63 ± 2.854
60
55
50
45
40
35
30
25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −269.1
Std Dev 0
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 20
Mean −0.001359
Std Dev 0.1154
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

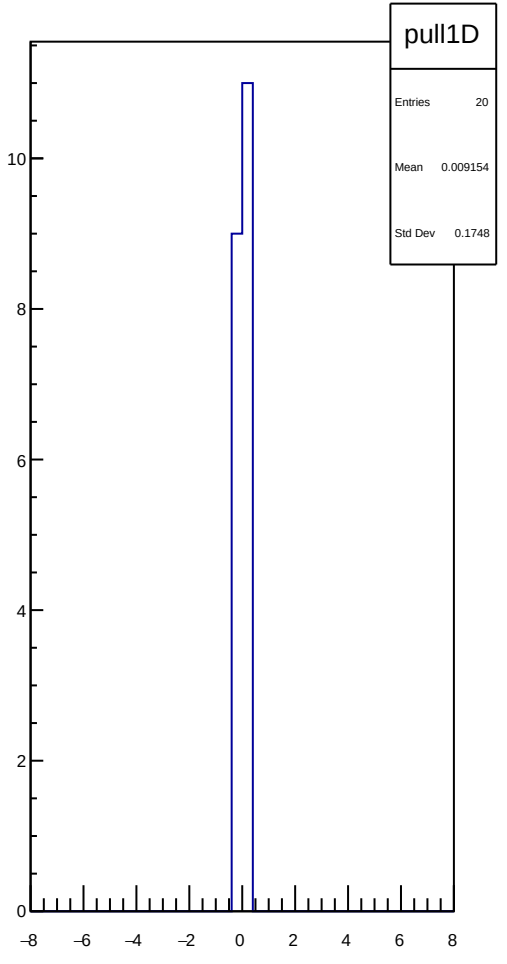

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.3942 / 19
p0 0.539 ± 0.1195
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −202.3
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3

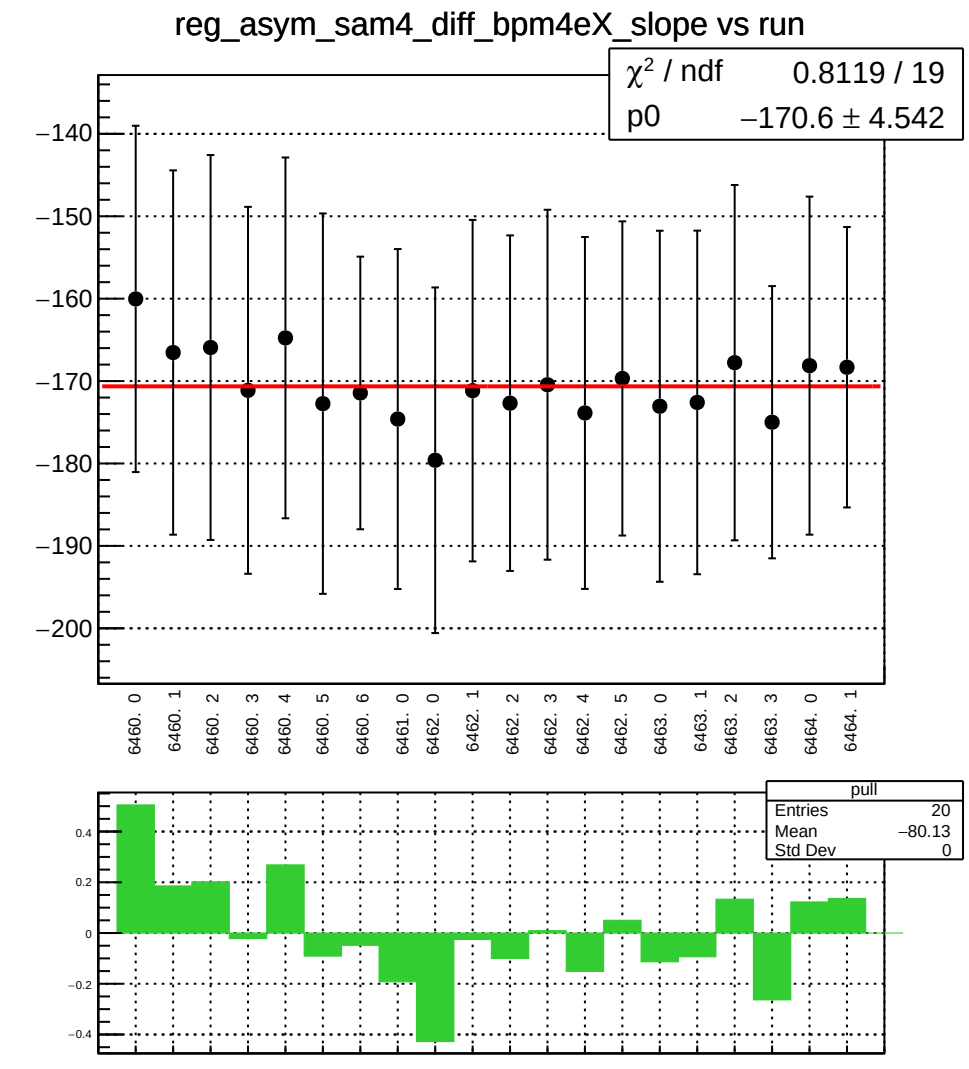

pull1D
Entries 20
Mean −0.003034
Std Dev 0.1404
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

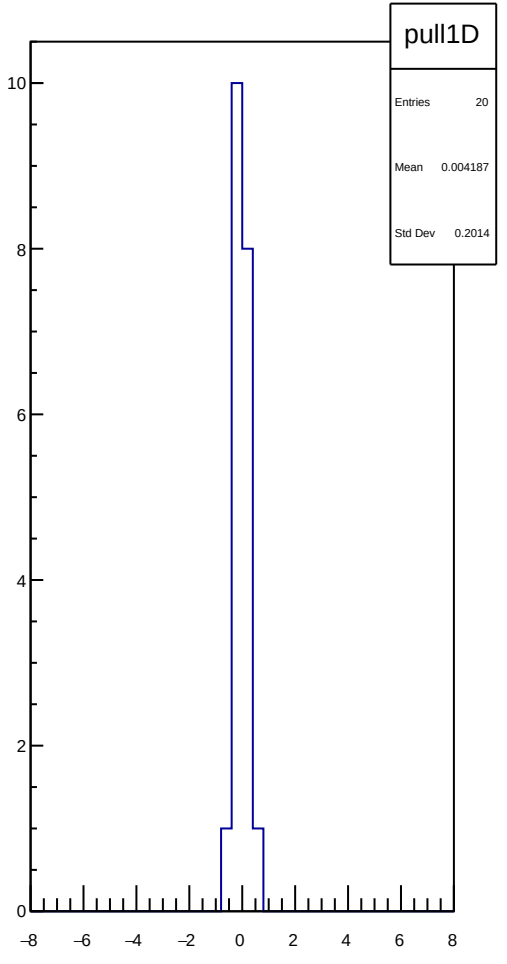

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 0.6894 / 19
p0 −37.1 ± 4.58
−10
−20
−30
−40
−50
−60
−70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −90.43
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

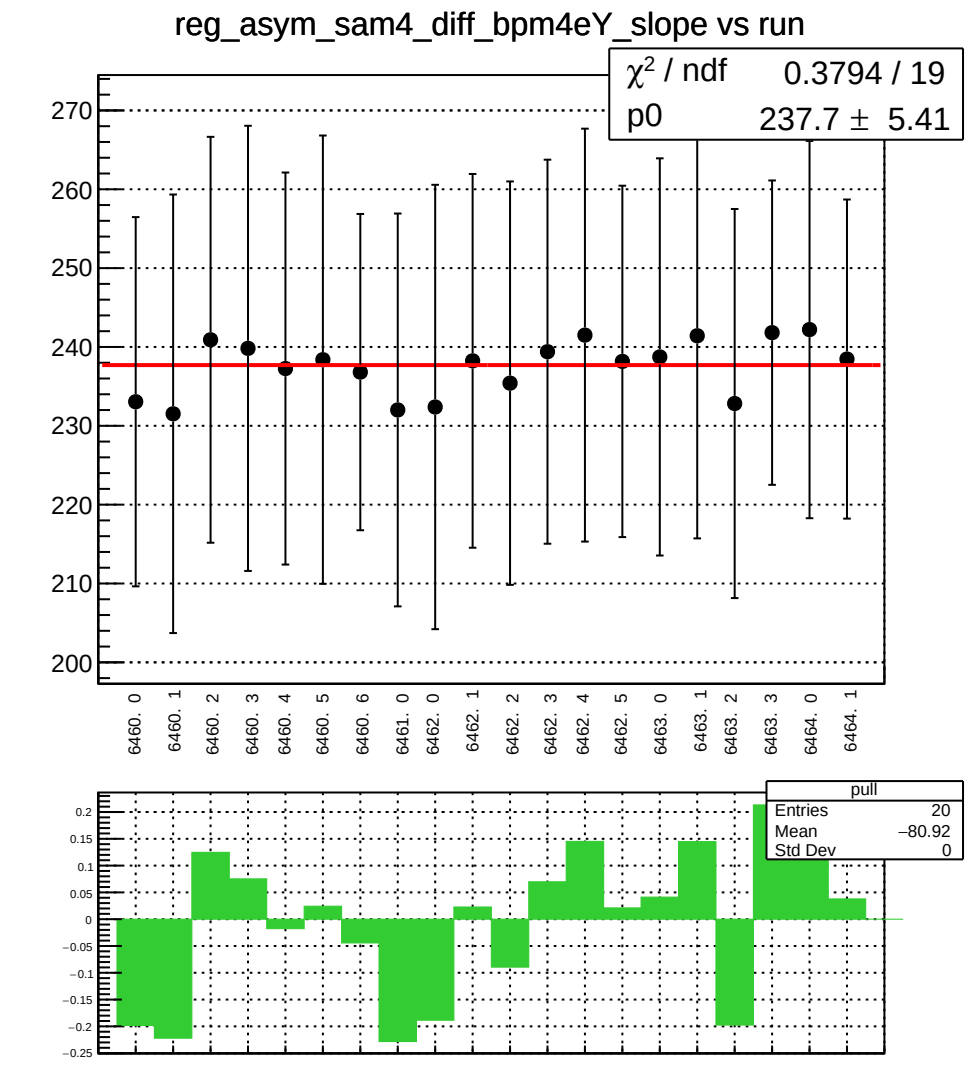

pull1D
Entries 20
Mean −0.006122
Std Dev 0.1856
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

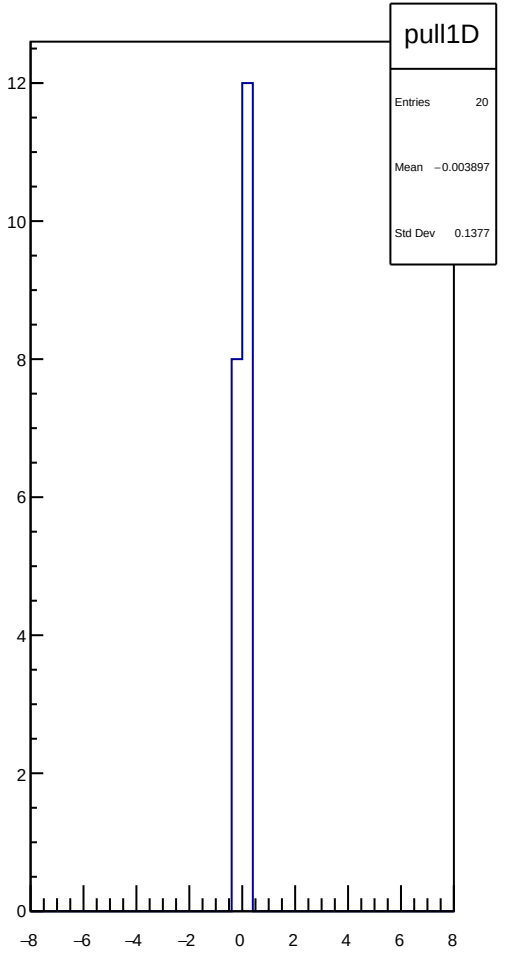

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 0.613 / 19
p0 22.65 ± 5.35
60
50
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.48
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

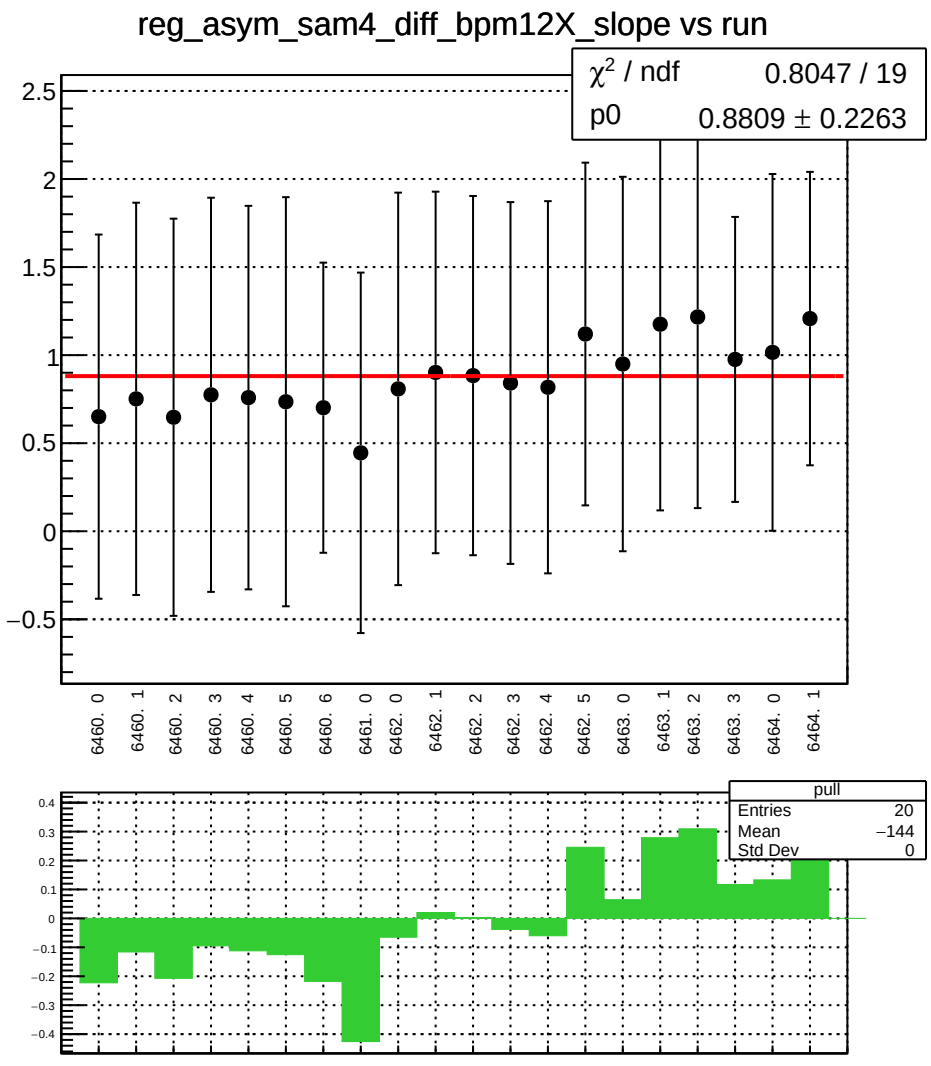

pull1D
Entries 20
Mean 0.009154
Std Dev 0.1748
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

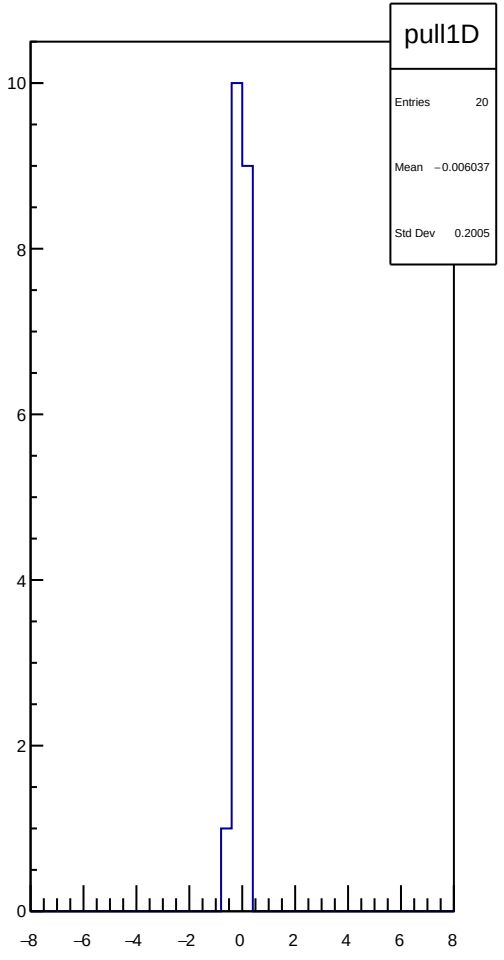

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.8119 / 19
p0 −170.6 ± 4.542
−140
−150
−160
−170
−180
−190
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −80.13
Std Dev 0
0.4
0.2
0
−0.2
−0.4

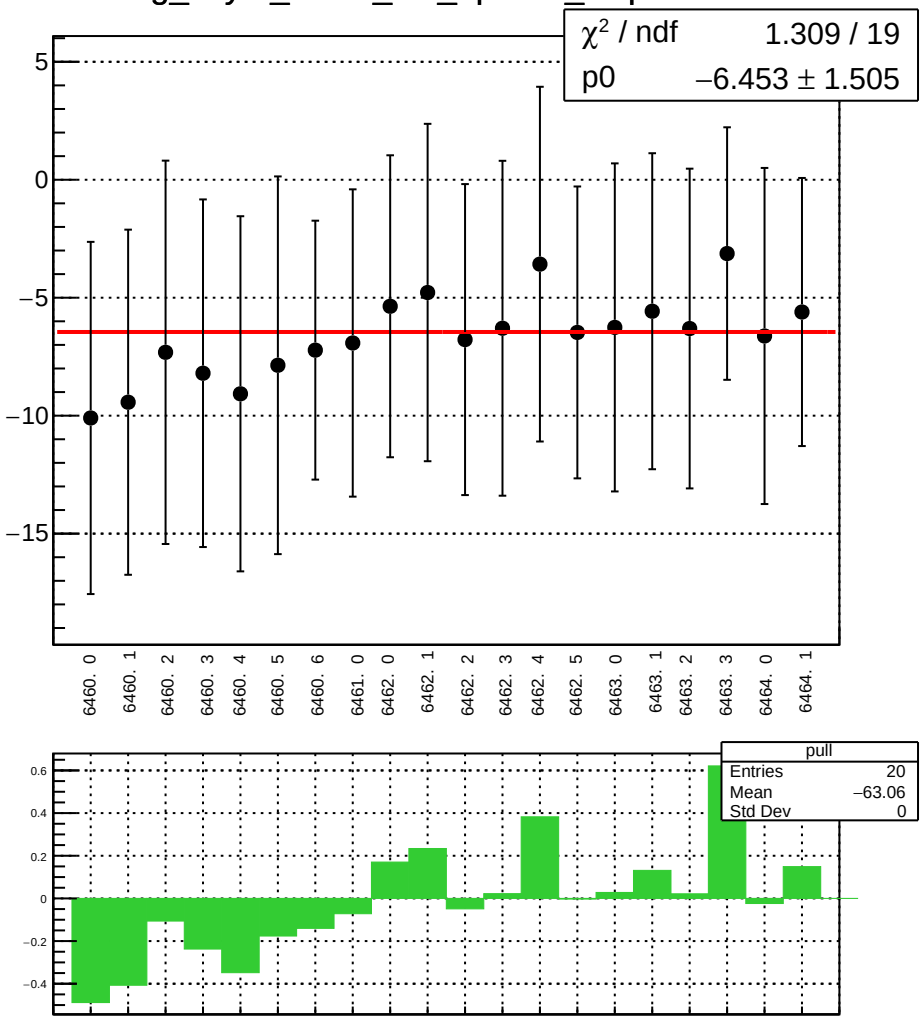

pull1D
Entries 20
Mean 0.004187
Std Dev 0.2014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

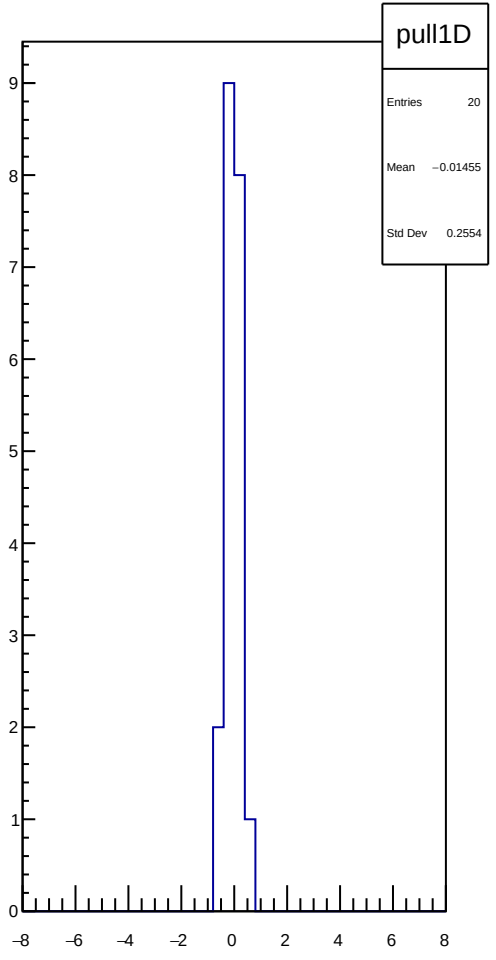

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 0.3794 / 19
p0 237.7 ± 5.41
270
260
250
240
230
220
210
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −80.92
Std Dev 0
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

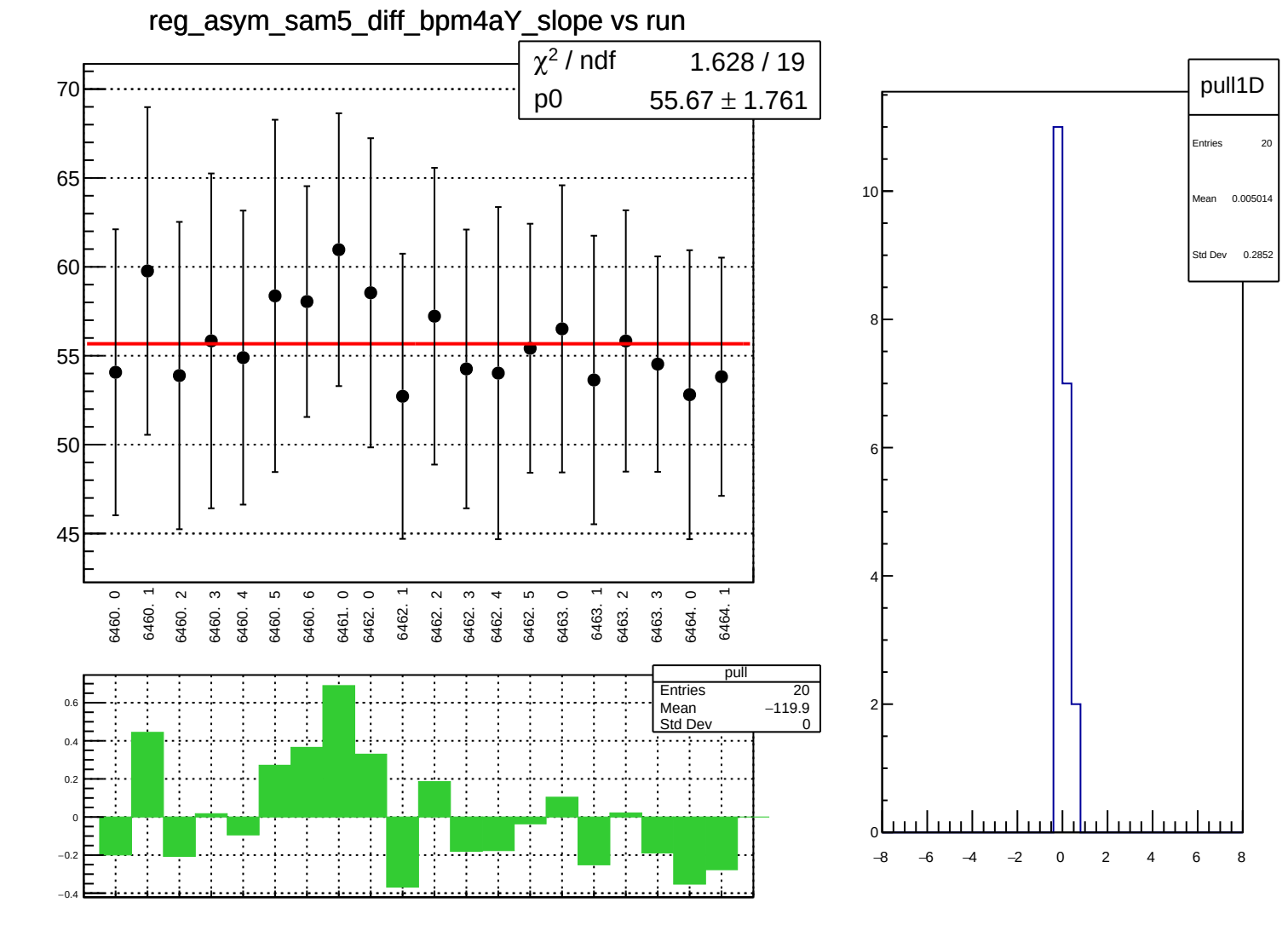

pull1D
Entries 20
Mean −0.003897
Std Dev 0.1377
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

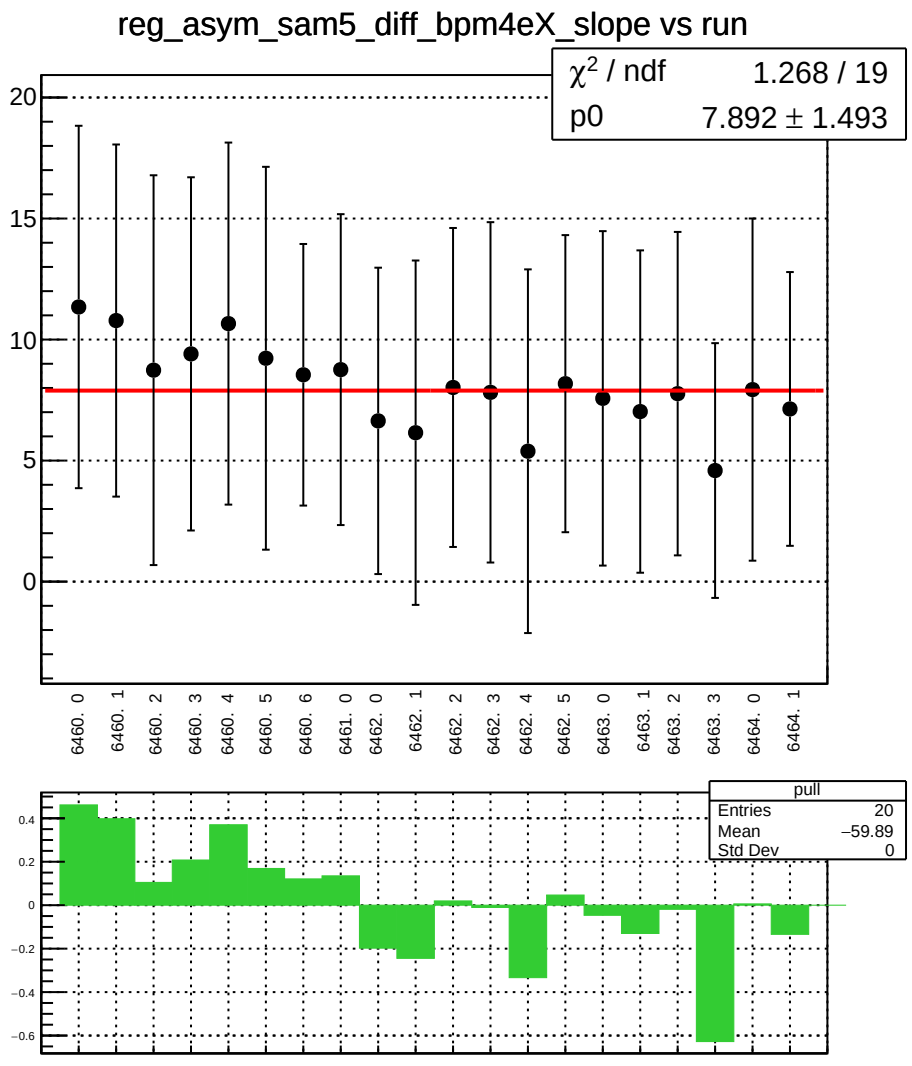

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.8047 / 19
p0 0.8809 ± 0.2263
2.5
2
1.5
1
0.5
0
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −144
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

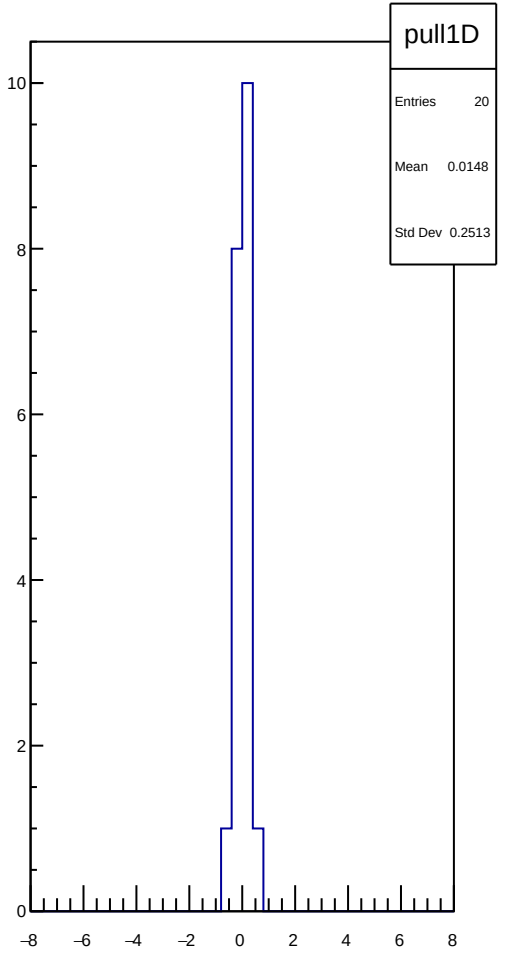

pull1D
Entries 20
Mean −0.006037
Std Dev 0.2005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

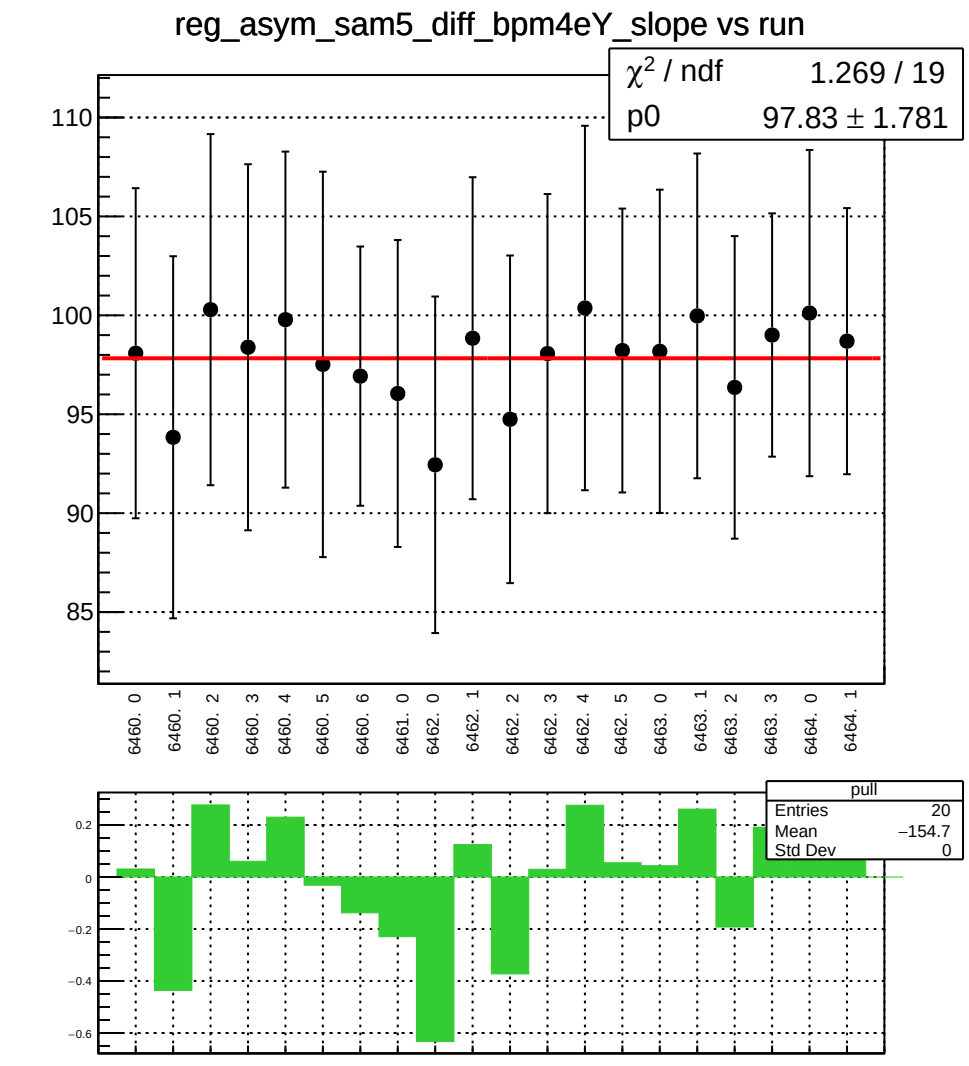

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 1.309 / 19
p0 −6.453 ± 1.505
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −63.06
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

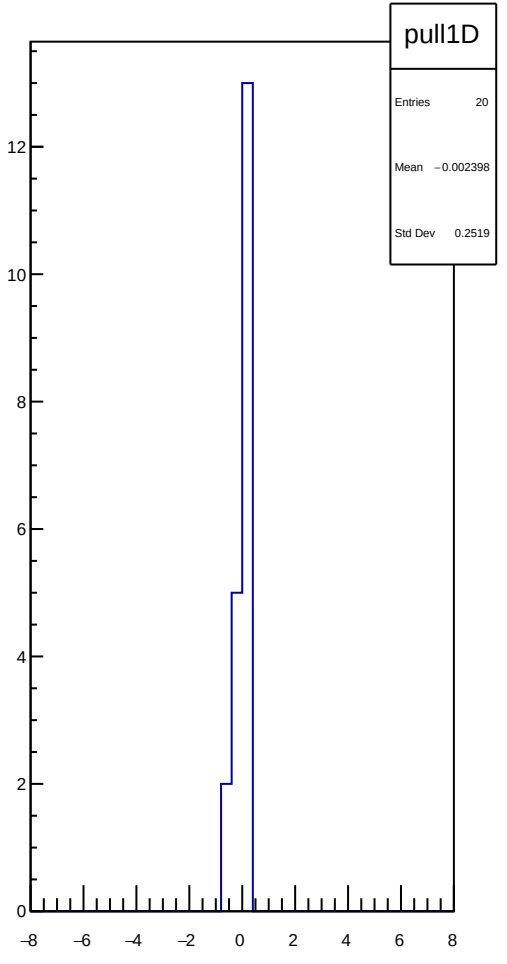

pull1D
Entries 20
Mean −0.01455
Std Dev 0.2554
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

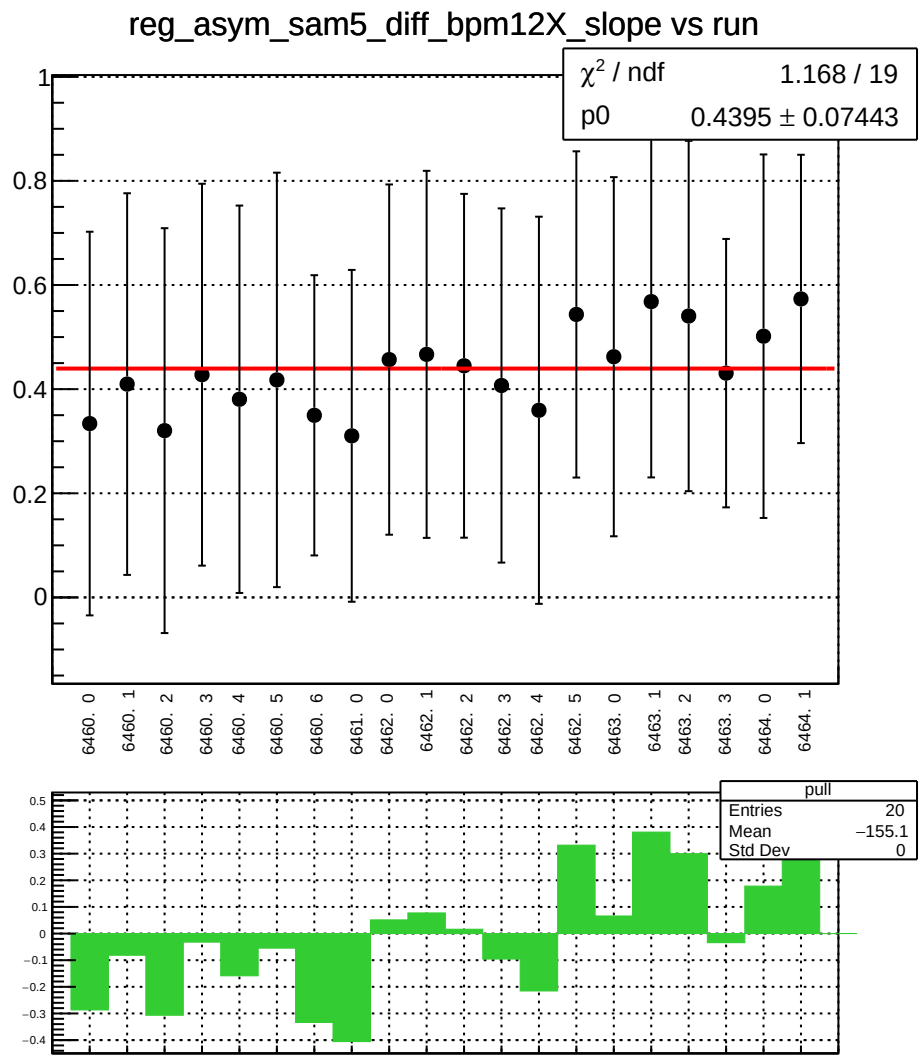

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 1.628 / 19
p0 55.67 ± 1.761
70
65
60
55
50
45
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −119.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean 0.005014
Std Dev 0.2852
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

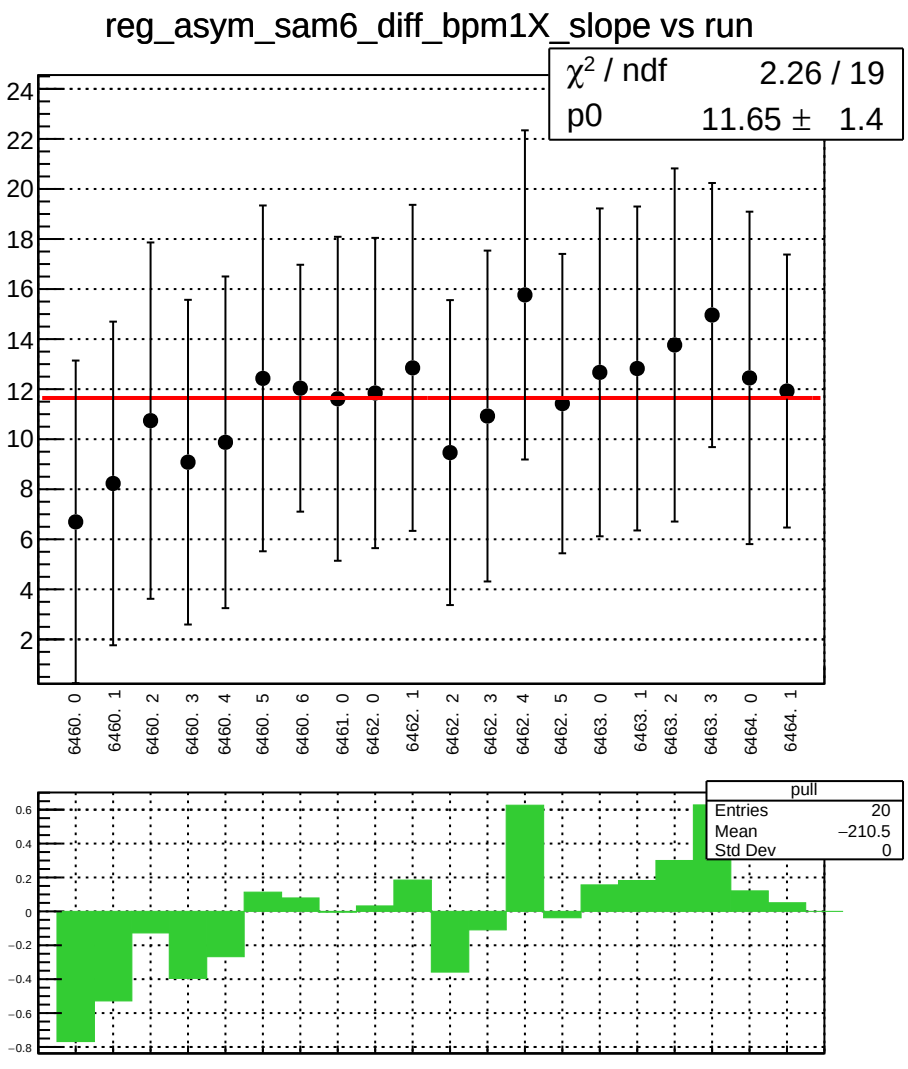

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.268 / 19
p0 7.892 ± 1.493
20
15
10
5
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −59.89
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

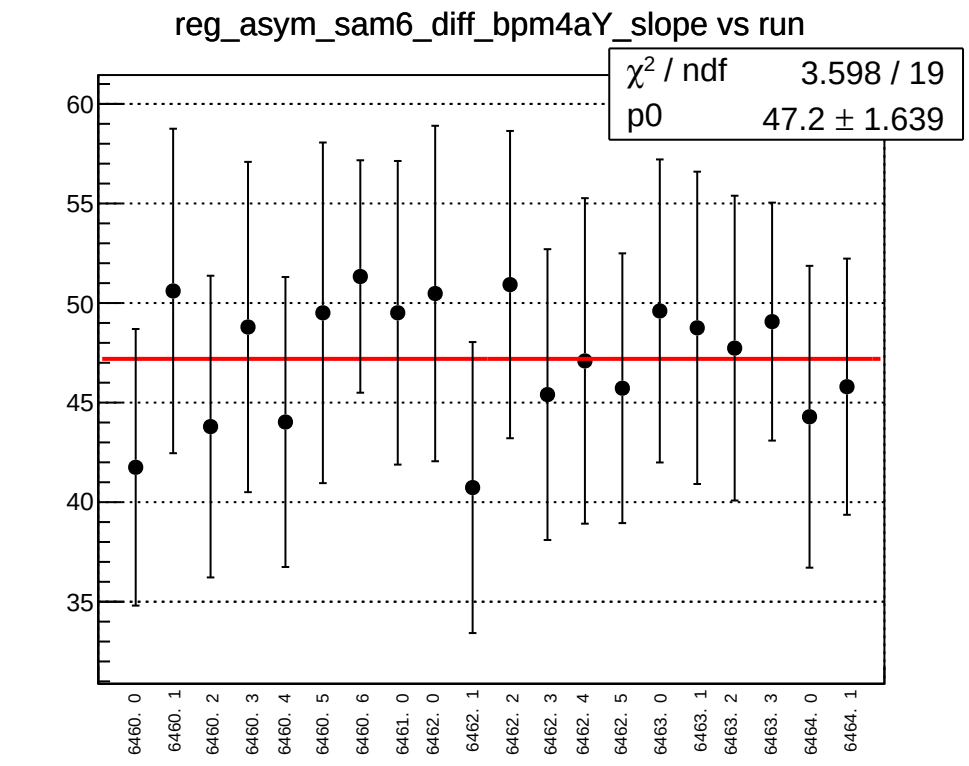

pull1D
Entries 20
Mean 0.0148
Std Dev 0.2513
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

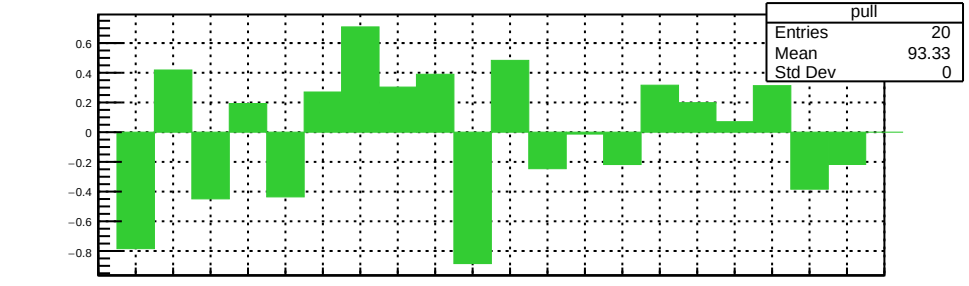

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 1.269 / 19
p0 97.83 ± 1.781
110
105
100
95
90
85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −154.7
Std Dev 0
0.2
0
−0.2
−0.4
−0.6

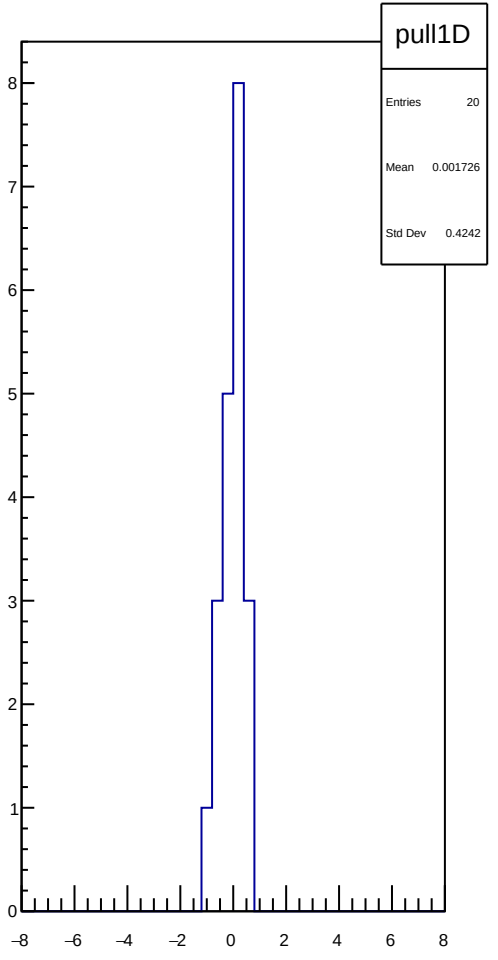

pull1D
Entries 20
Mean −0.002398
Std Dev 0.2519
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

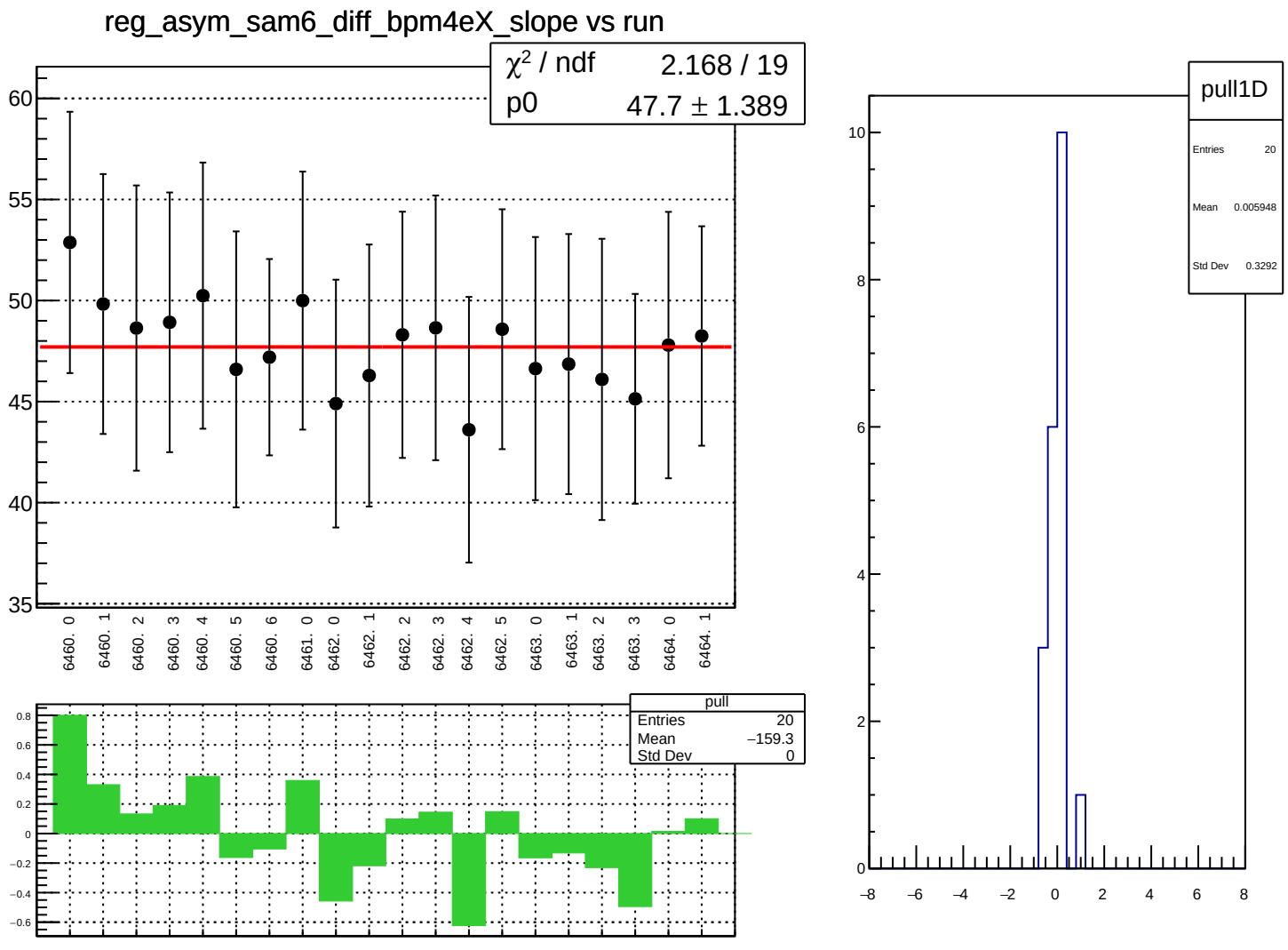

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 1.168 / 19
p0 0.4395 ± 0.07443
1
0.8
0.6
0.4
0.2
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −155.1
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 20
Mean −0.005991
Std Dev 0.2416
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

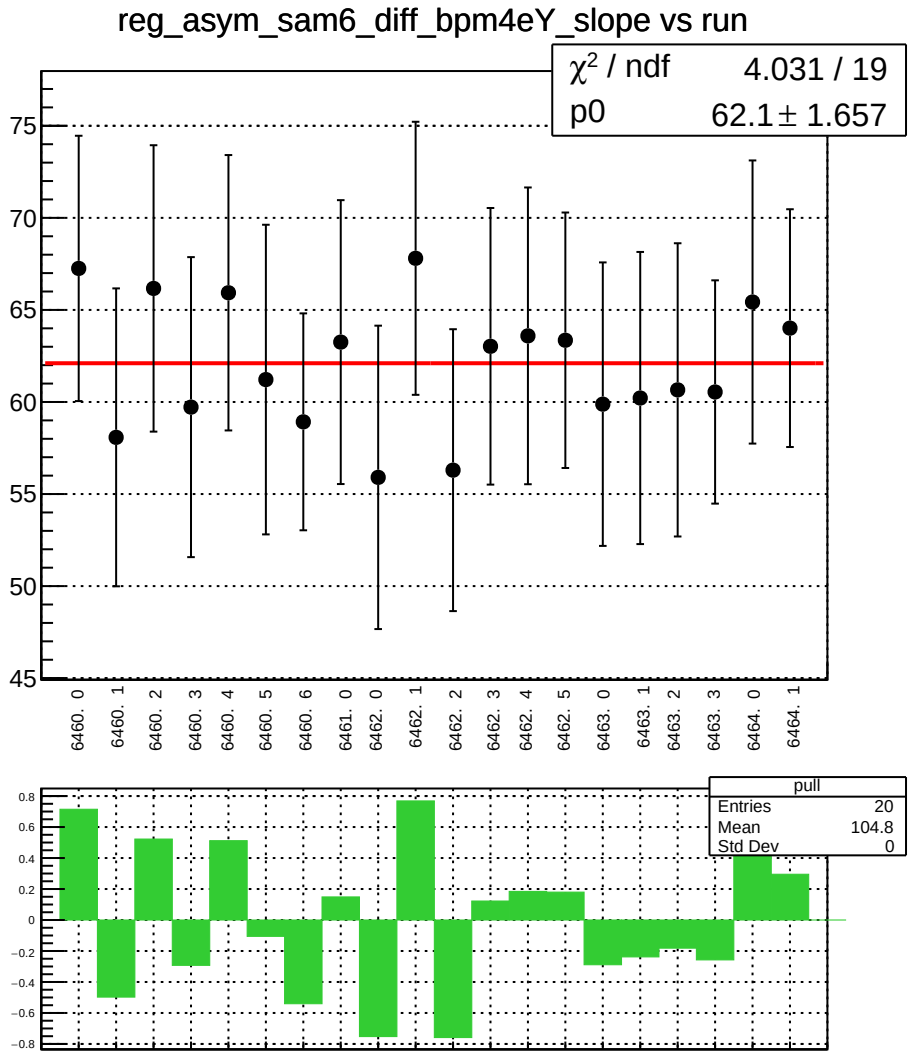

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.26 / 19
p0 11.65 ± 1.4
24
22
20
18
16
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −210.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.006085
Std Dev 0.3361
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

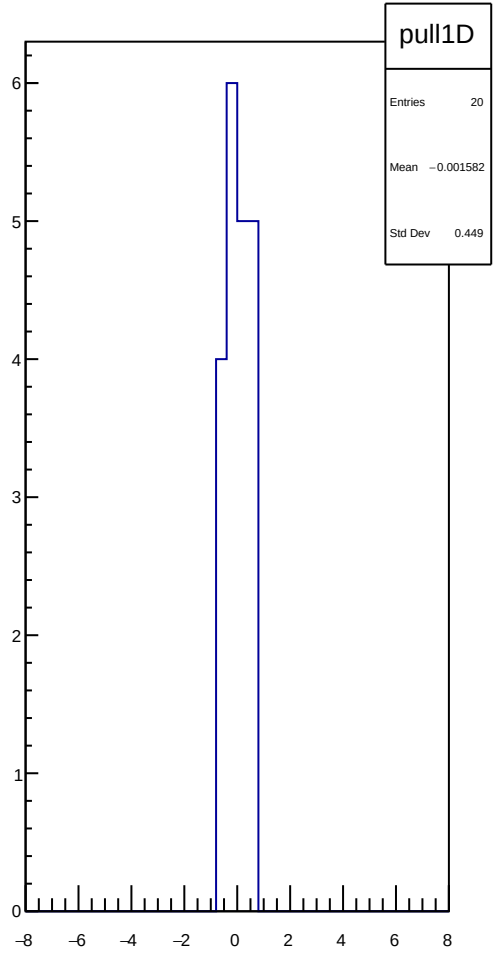

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 3.598 / 19
p0 47.2 ± 1.639
60
55
50
45
40
35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

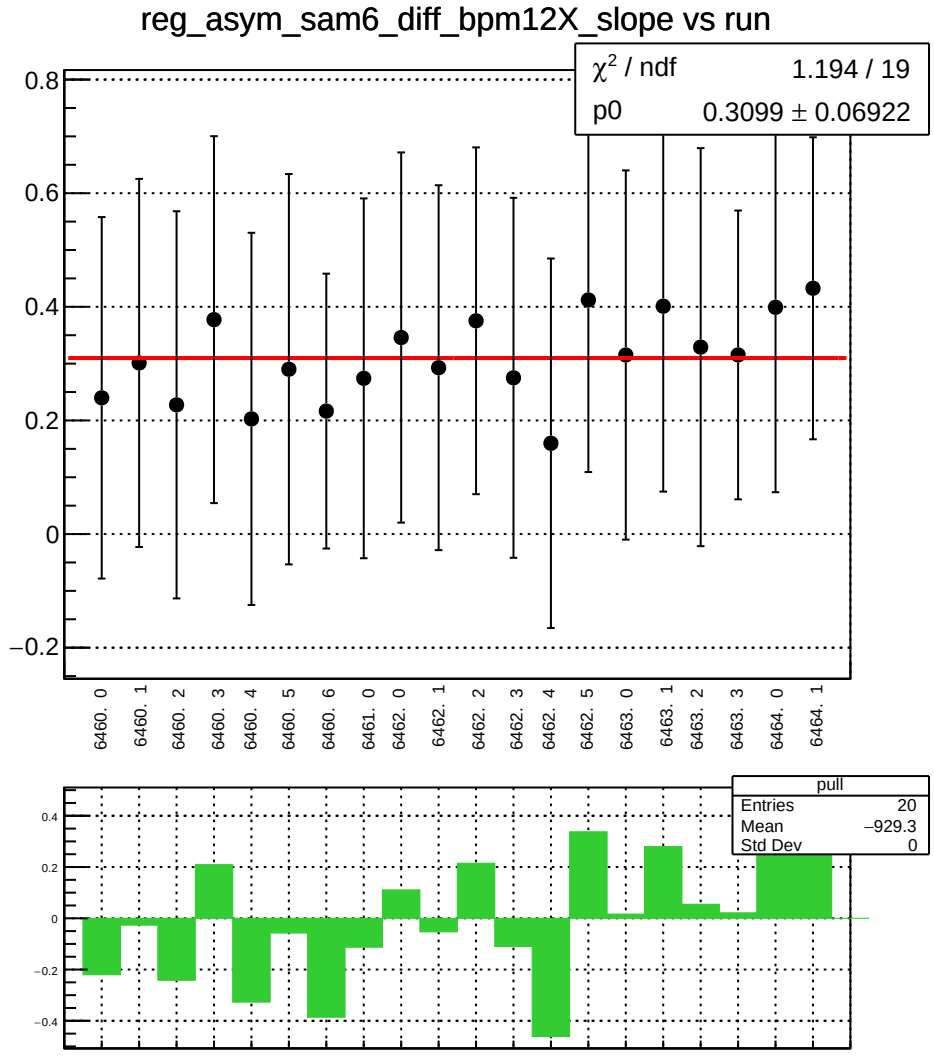

pull
Entries 20
Mean 93.33
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

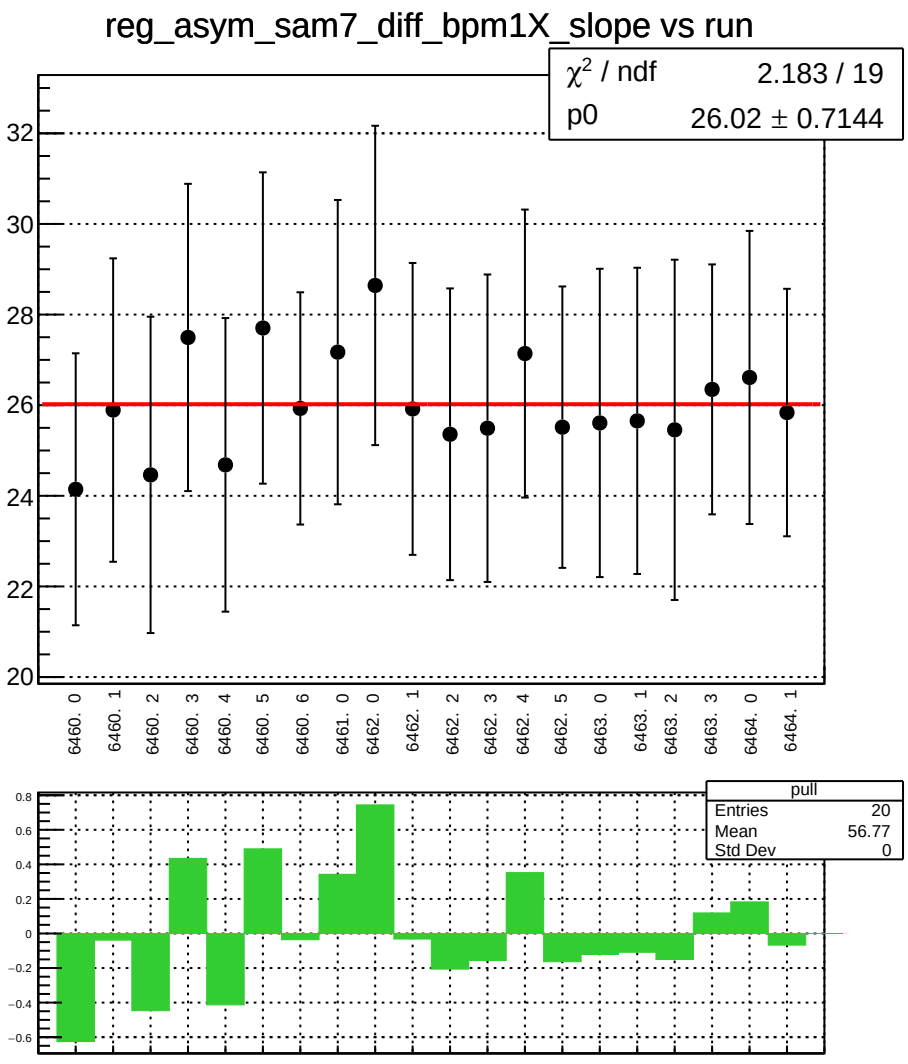

pull1D
Entries 20
Mean 0.001726
Std Dev 0.4242
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

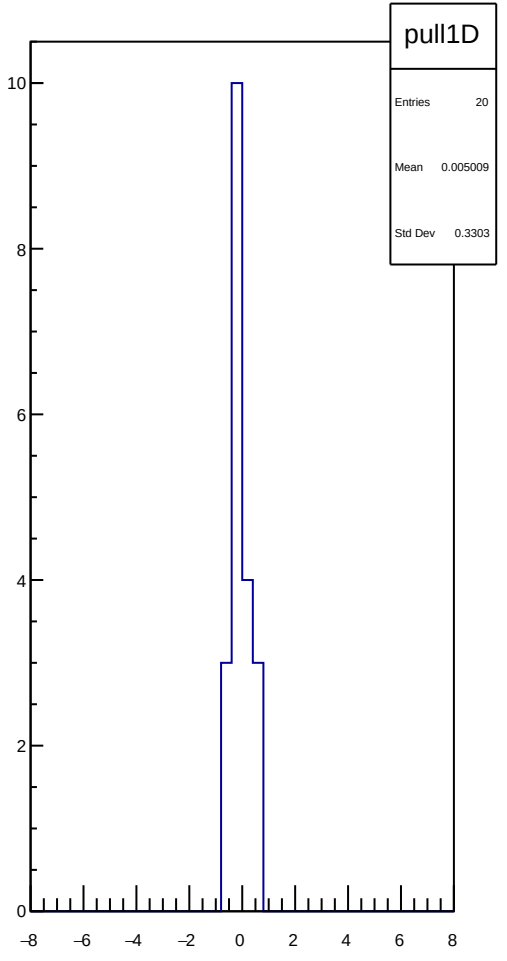

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 2.168 / 19
p0 47.7 ± 1.389
60
55
50
45
40
35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −159.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.005948
Std Dev 0.3292
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

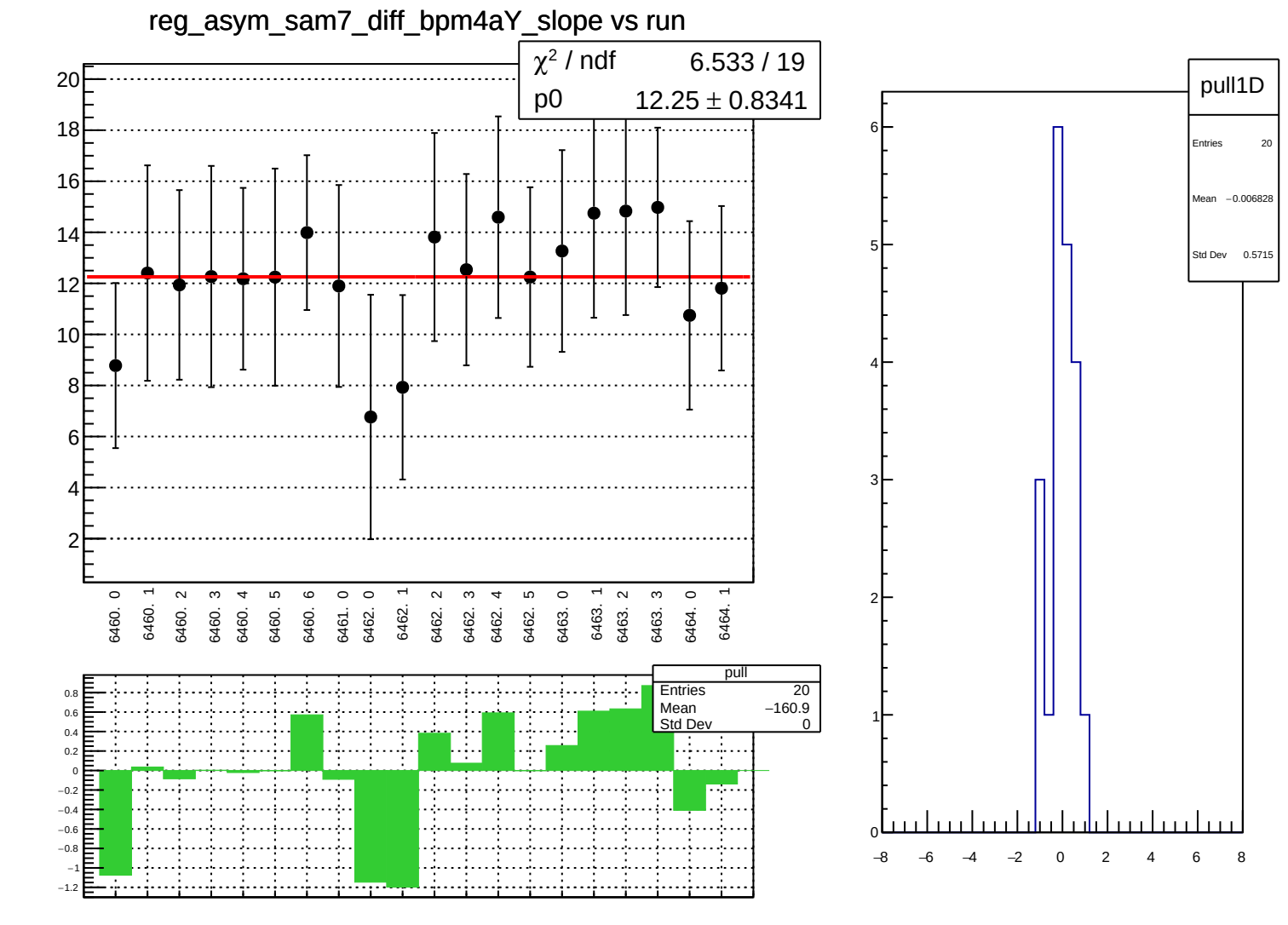

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 4.031 / 19
p0 62.1 ± 1.657
75
70
65
60
55
50
45
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 104.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

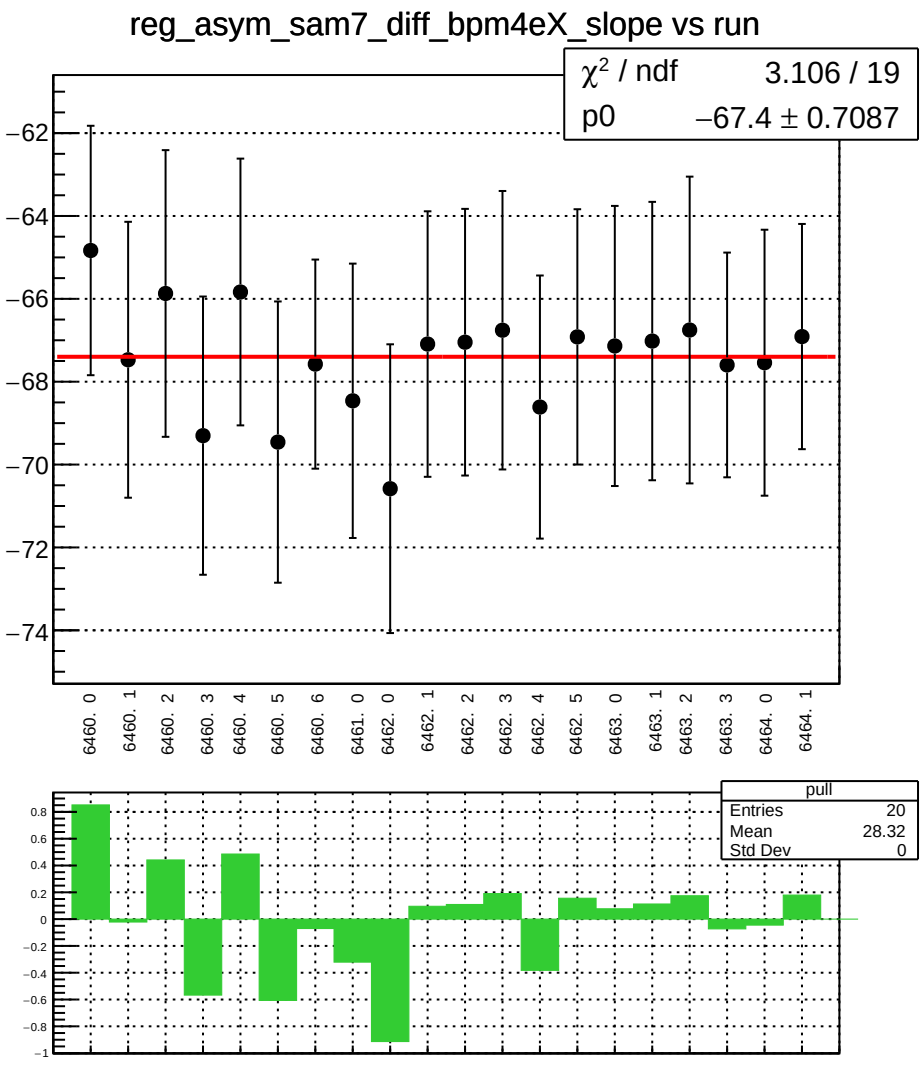

pull1D
Entries 20
Mean −0.001582
Std Dev 0.449
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

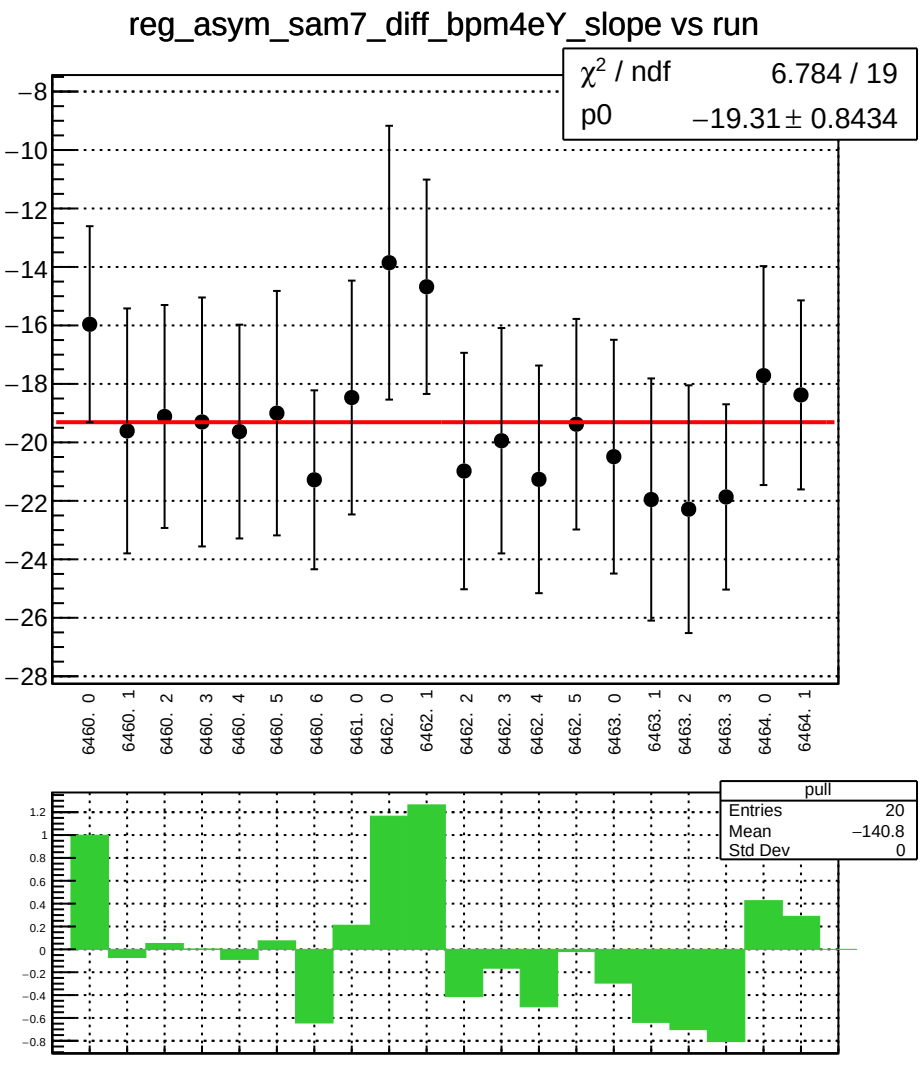

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 1.194 / 19
p0 0.3099 ± 0.06922
0.8
0.6
0.4
0.2
0
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −929.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean −0.0008059
Std Dev 0.2443
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

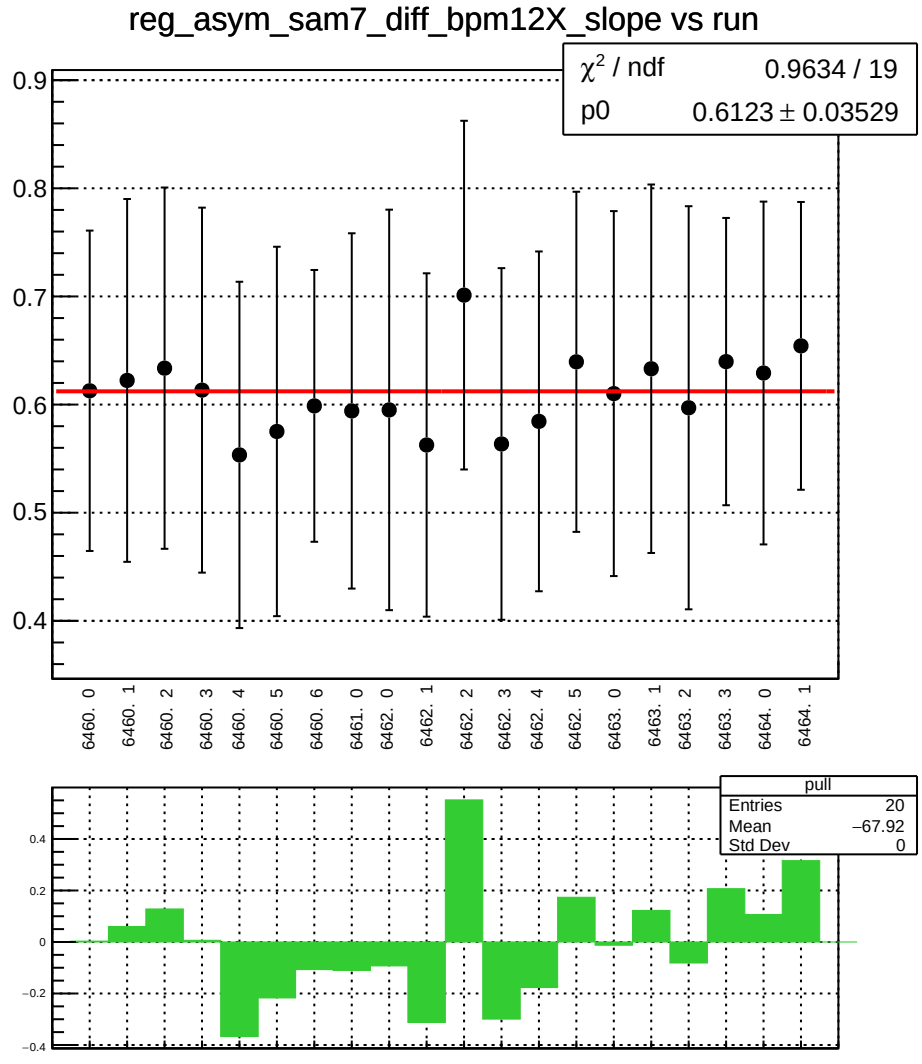

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 2.183 / 19
p0 26.02 ± 0.7144
32
30
28
26
24
22
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 56.77
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

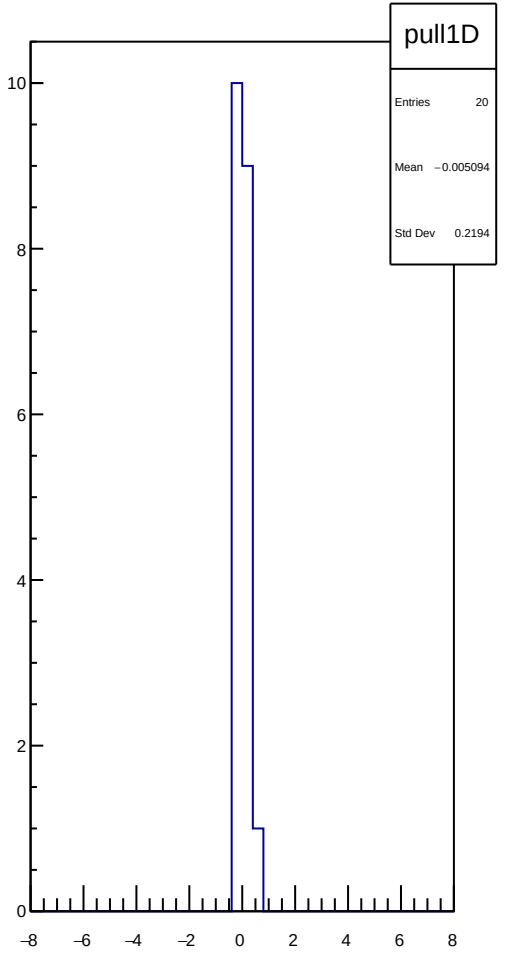

pull1D
Entries 20
Mean 0.005009
Std Dev 0.3303
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

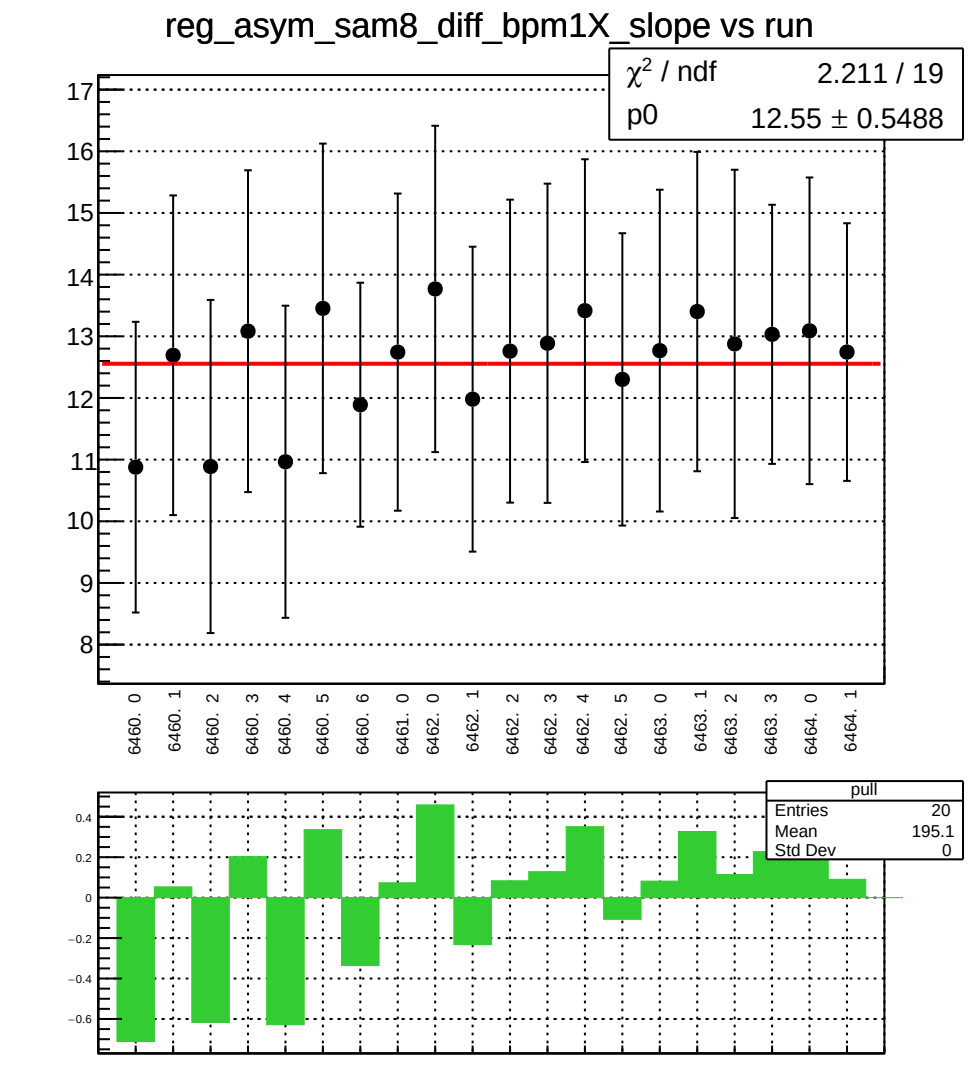

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 6.533 / 19
p0 12.25 ± 0.8341
20
18
16
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −160.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 20
Mean −0.006828
Std Dev 0.5715
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

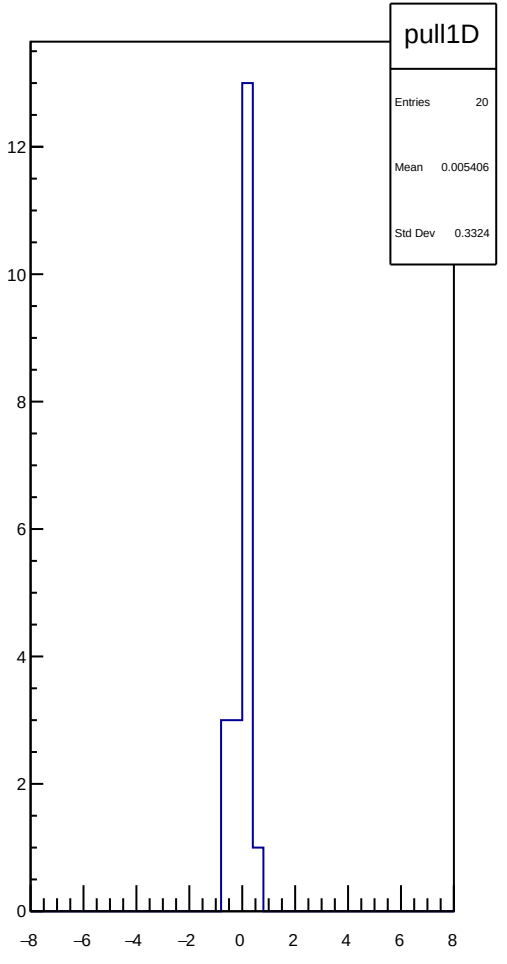

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 3.106 / 19
p0 −67.4 ± 0.7087
−62
−64
−66
−68
−70
−72
−74
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 28.32
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 20
Mean −0.006267
Std Dev 0.394
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

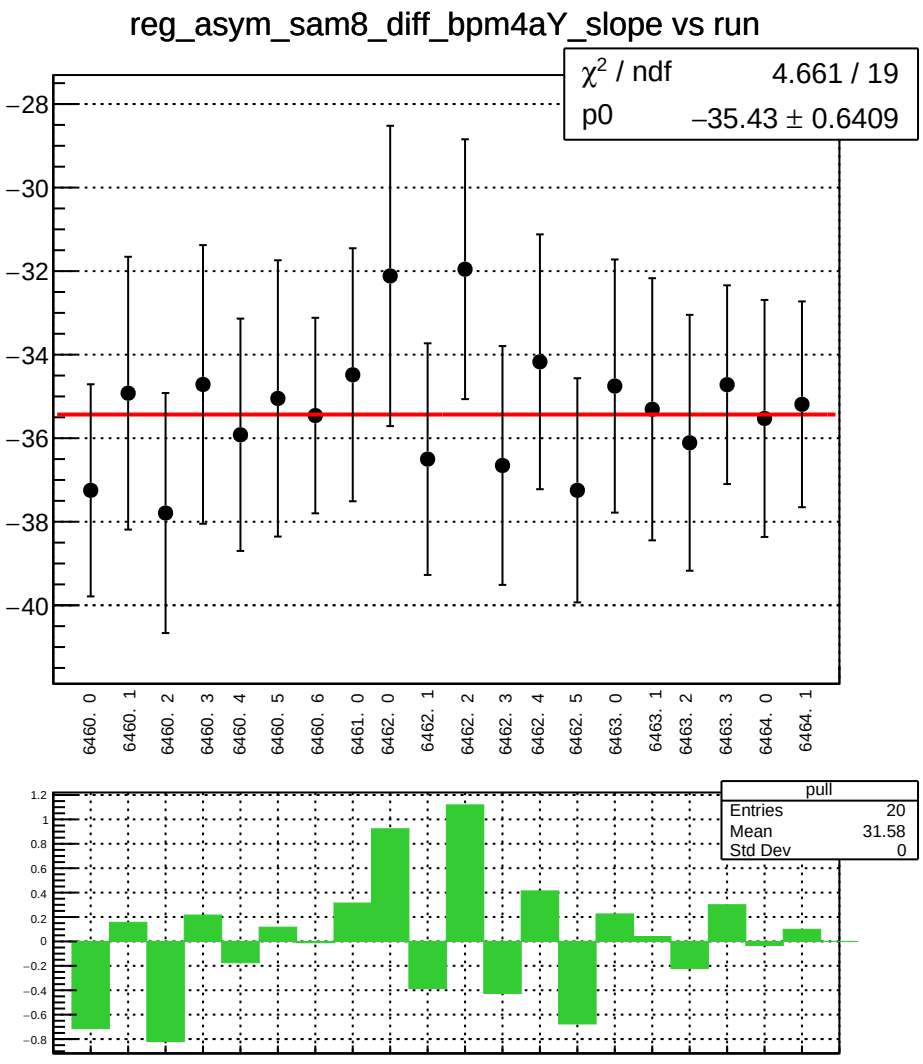

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 6.784 / 19
p0 −19.31 ± 0.8434
−8
−10
−12
−14
−16
−18
−20
−22
−24
−26
−28
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −140.8
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.006846
Std Dev 0.5824
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

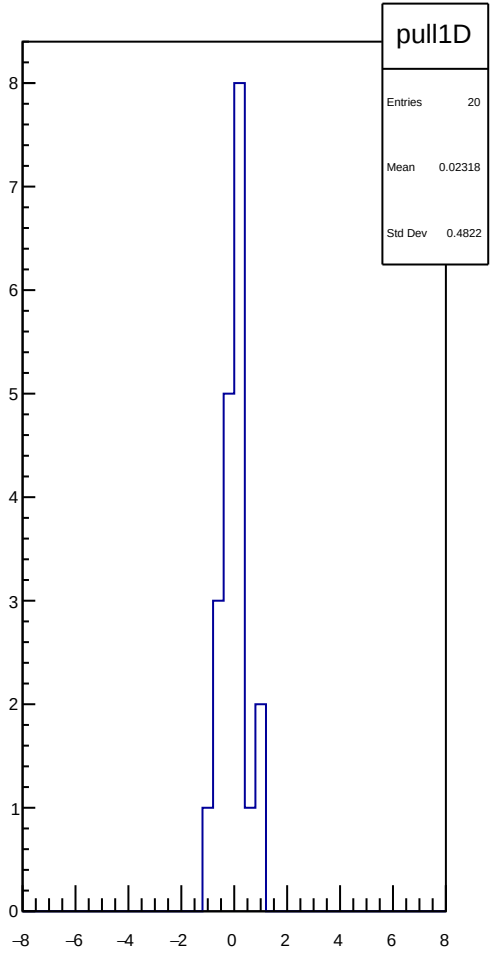

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 0.9634 / 19
p0 0.6123 ± 0.03529
0.9
0.8
0.7
0.6
0.5
0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −67.92
Std Dev 0
0.4
0.2
0
−0.2
−0.4

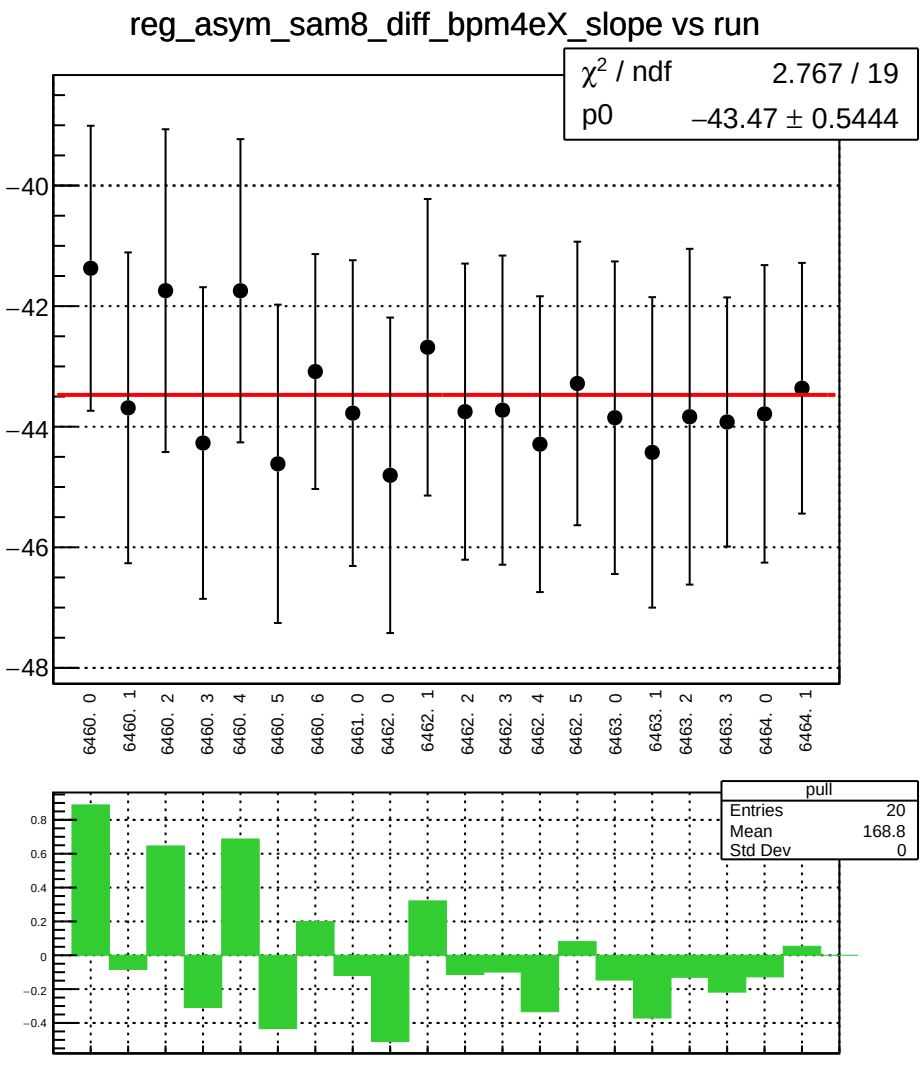

pull1D
Entries 20
Mean −0.005094
Std Dev 0.2194
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

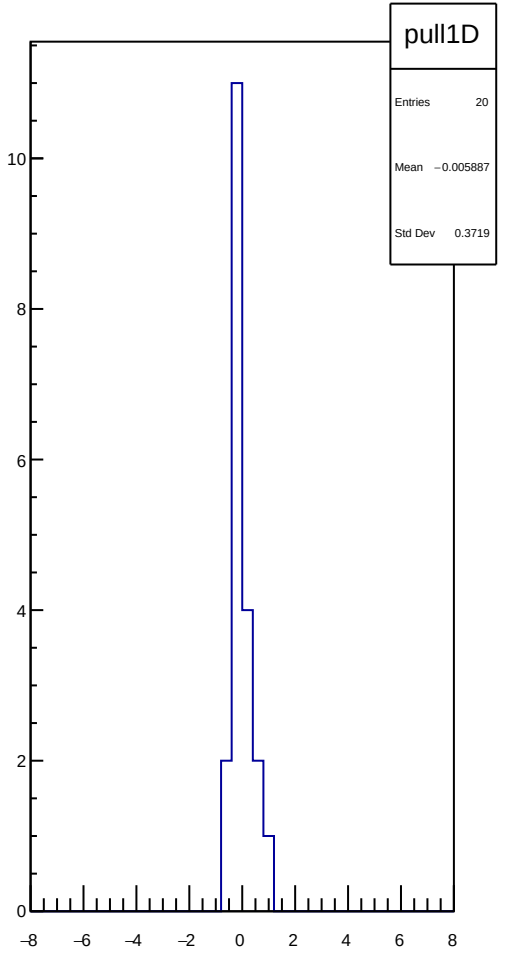

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 2.211 / 19
p0 12.55 ± 0.5488
17
16
15
14
13
12
11
10
9
8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 195.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

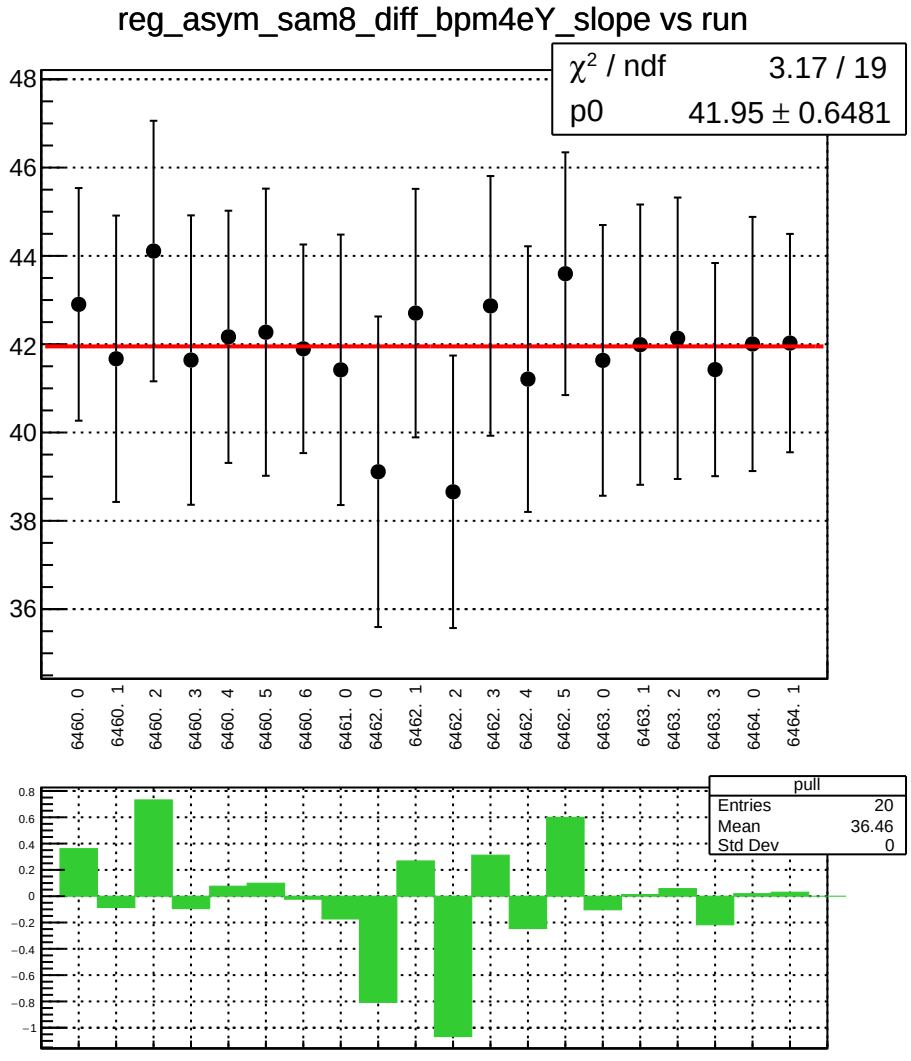

pull1D
Entries 20
Mean 0.005406
Std Dev 0.3324
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

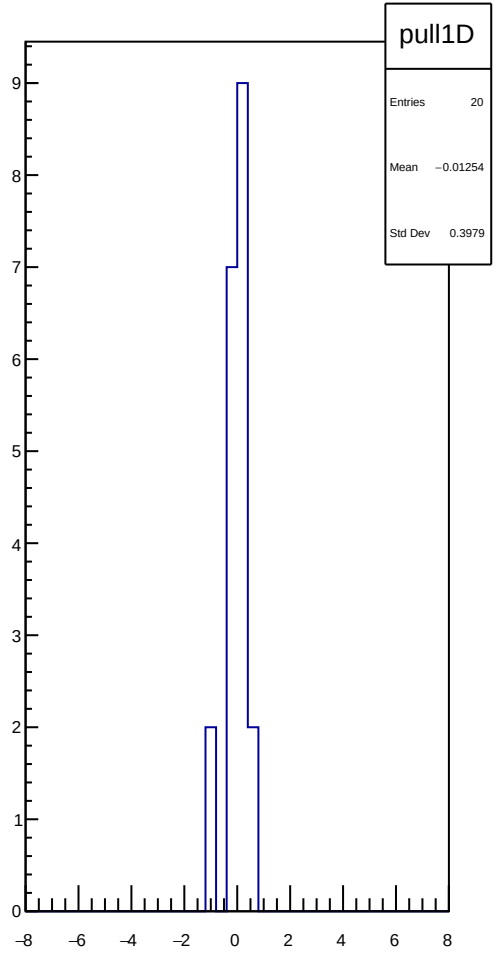

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 4.661 / 19
p0 −35.43 ± 0.6409
−28
−30
−32
−34
−36
−38
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 31.58
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

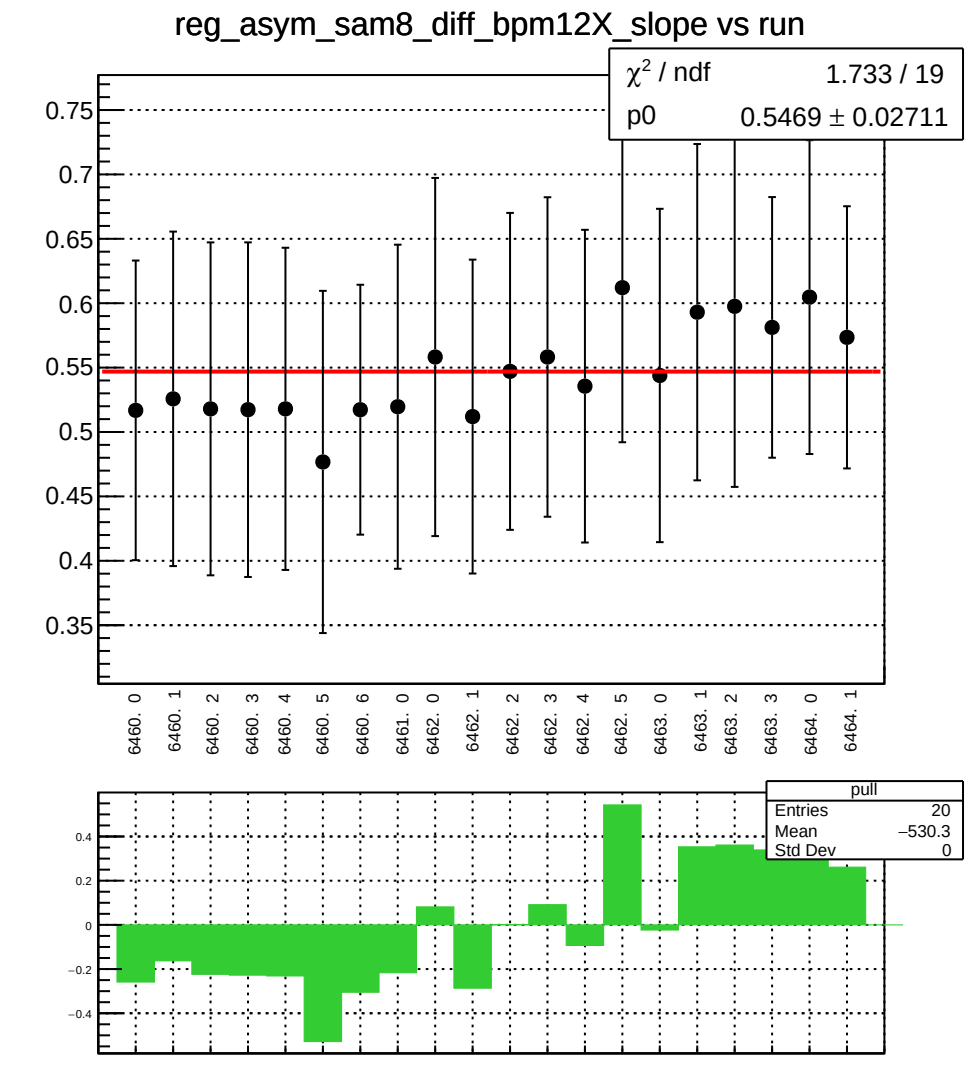

pull1D
Entries 20
Mean 0.02318
Std Dev 0.4822
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

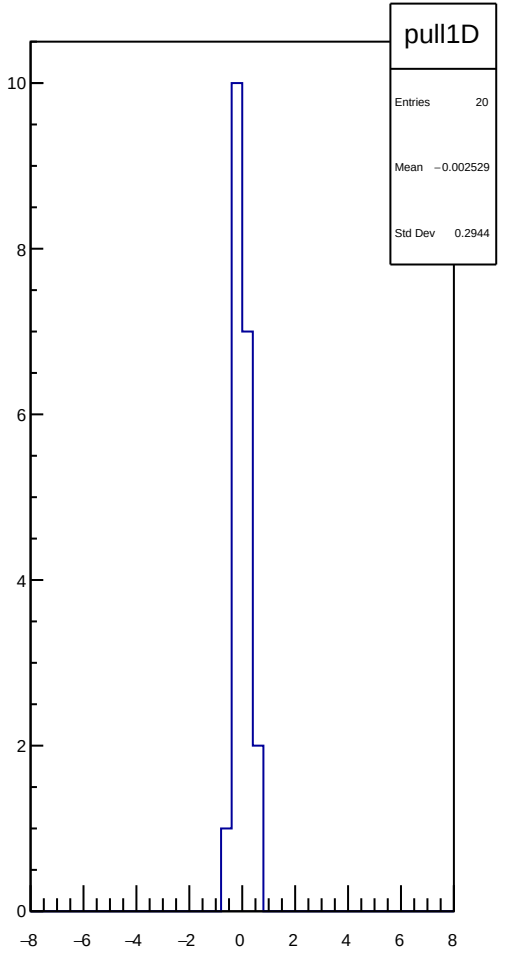

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2.767 / 19
p0 −43.47 ± 0.5444
−40
−42
−44
−46
−48
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 168.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

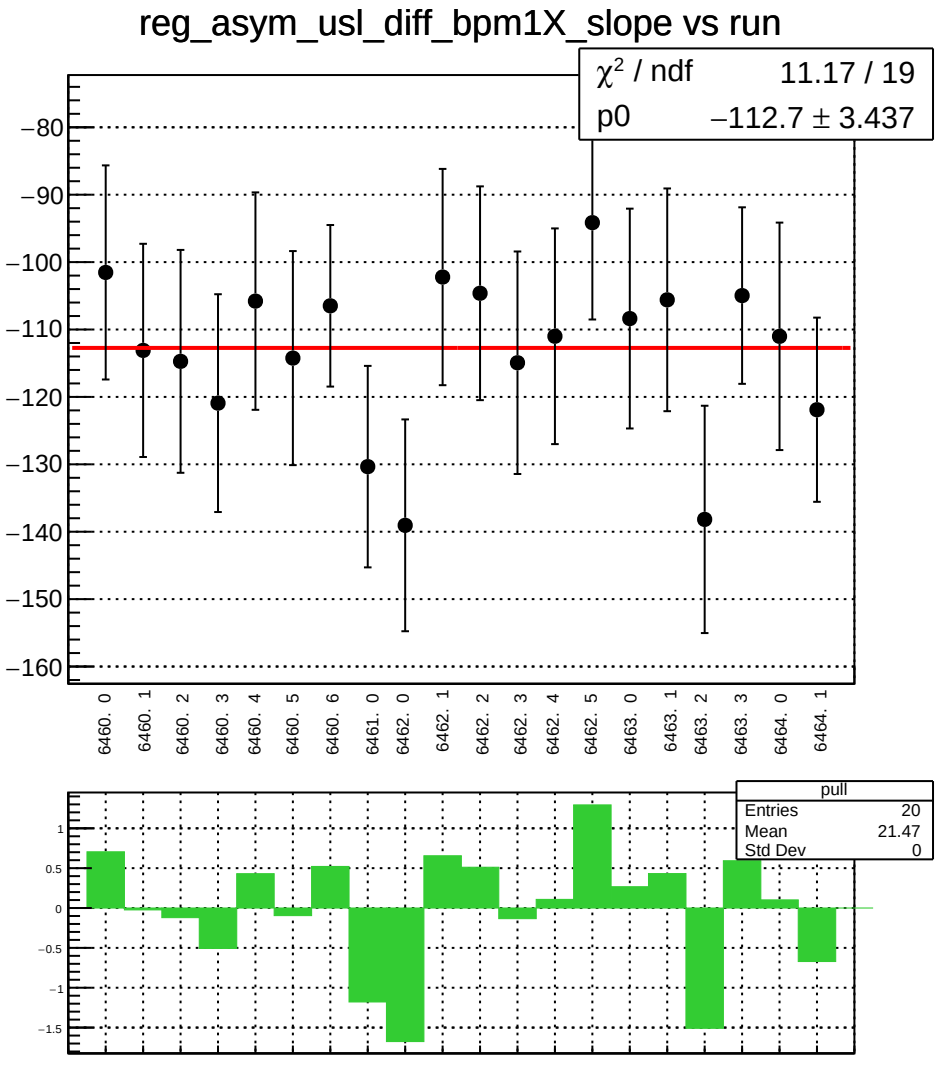

pull1D
Entries 20
Mean −0.005887
Std Dev 0.3719
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

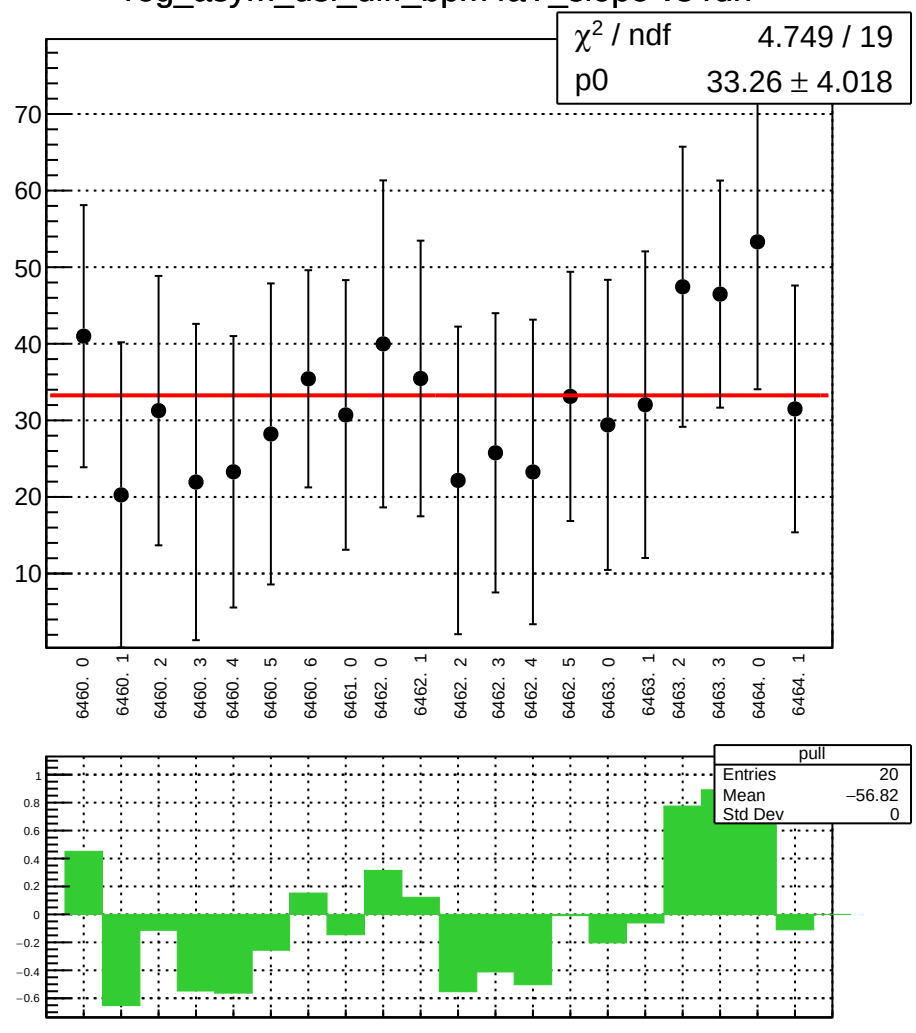

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 3.17 / 19
p0 41.95 ± 0.6481
48
46
44
42
40
38
36
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.46
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

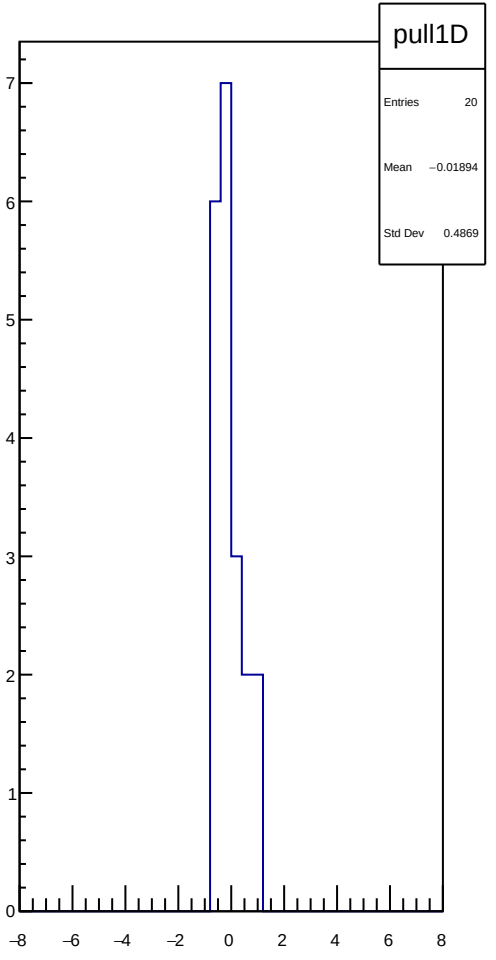

pull1D
Entries 20
Mean −0.01254
Std Dev 0.3979
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

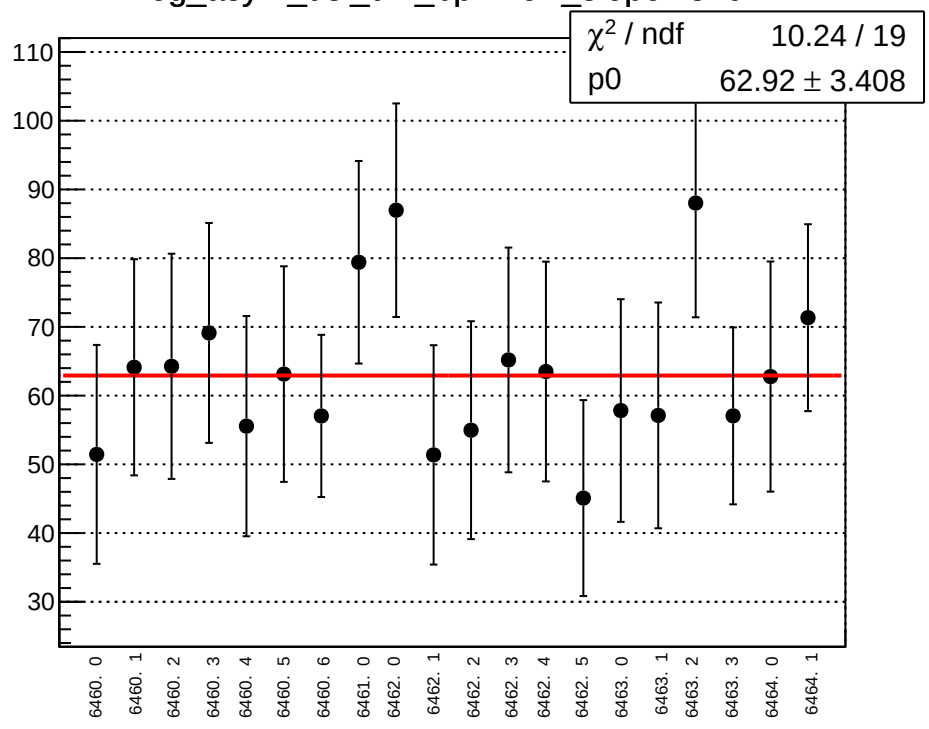

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 1.733 / 19
p0 0.5469 ± 0.02711
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −530.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4

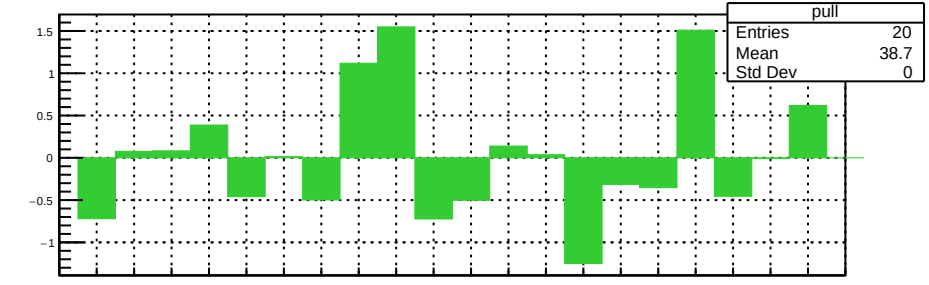

pull1D
Entries 20
Mean −0.002529
Std Dev 0.2944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

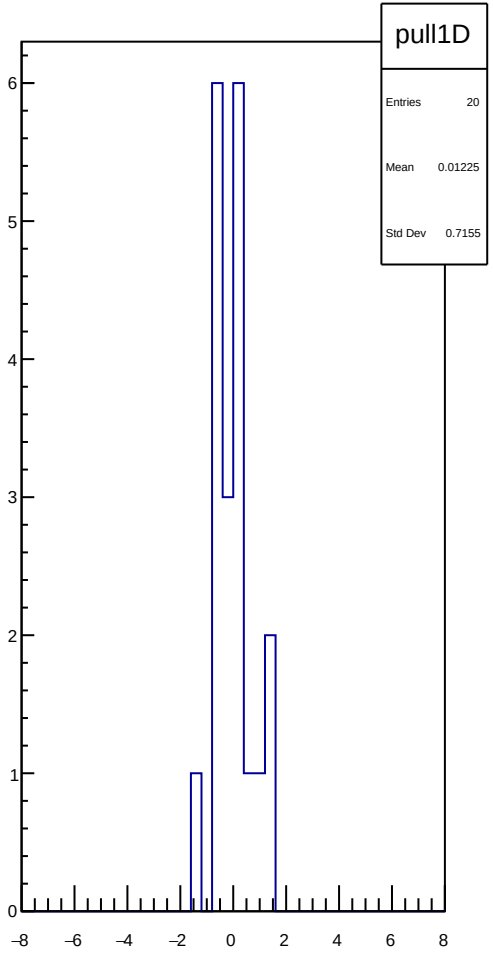

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 11.17 / 19
p0 −112.7 ± 3.437
−80
−90
−100
−110
−120
−130
−140
−150
−160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 21.47
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0147
Std Dev 0.7472
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

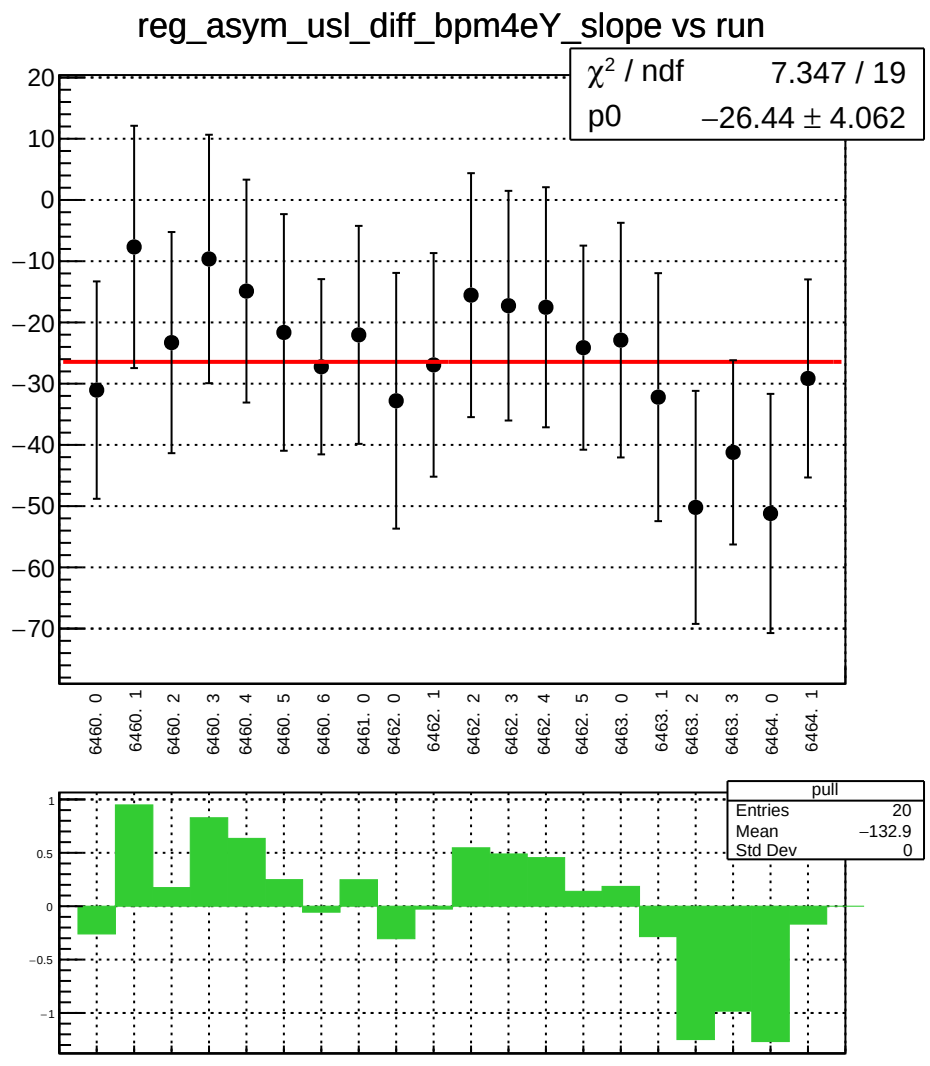

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 4.749 / 19
p0 33.26 ± 4.018
70
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −56.82
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

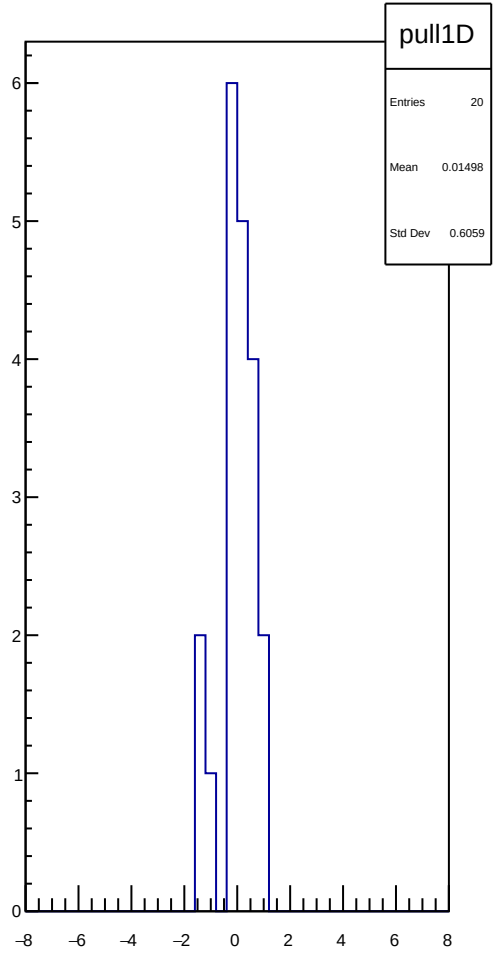

pull1D
Entries 20
Mean −0.01894
Std Dev 0.4869
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

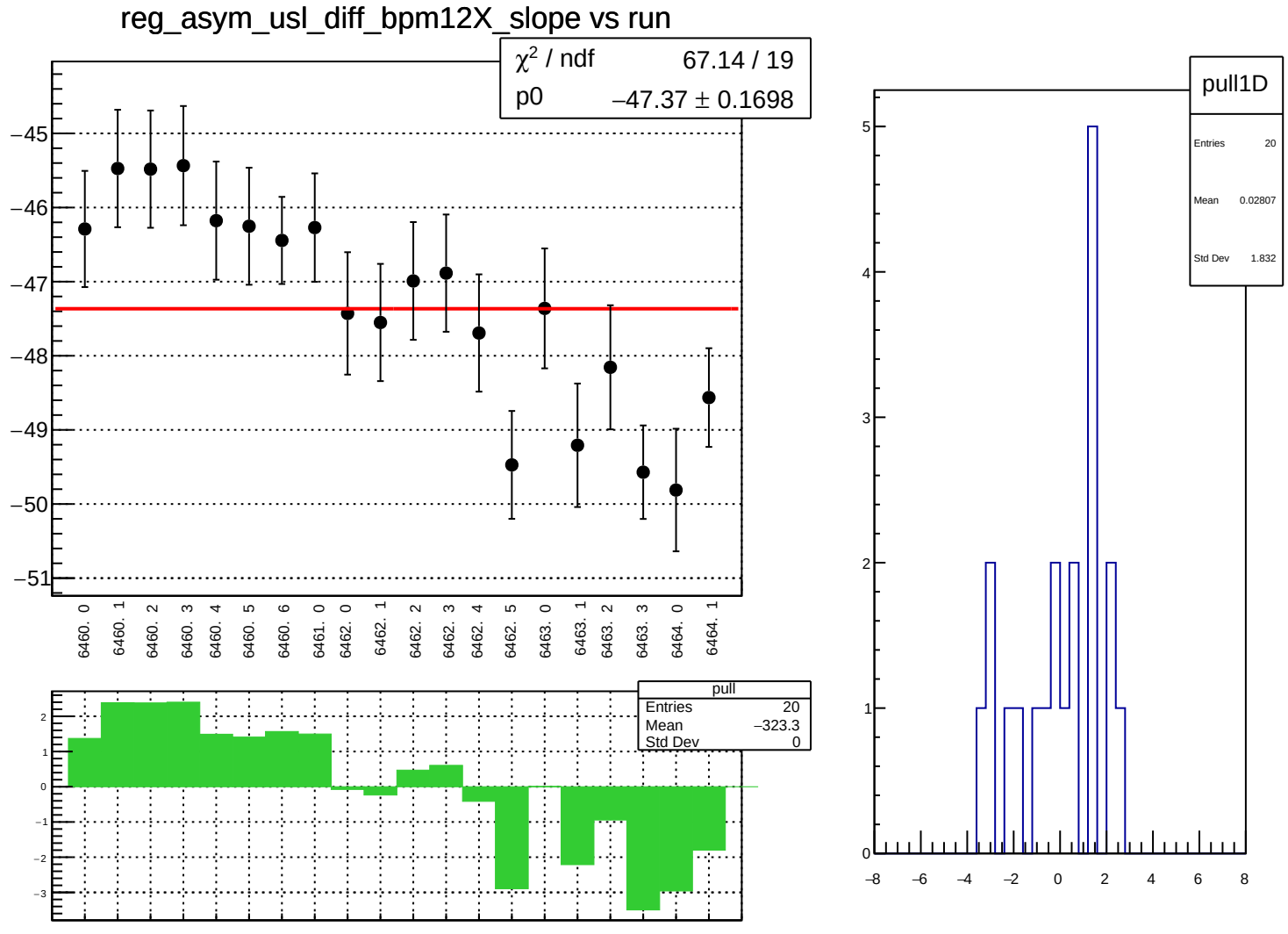

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 10.24 / 19
p0 62.92 ± 3.408
110
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

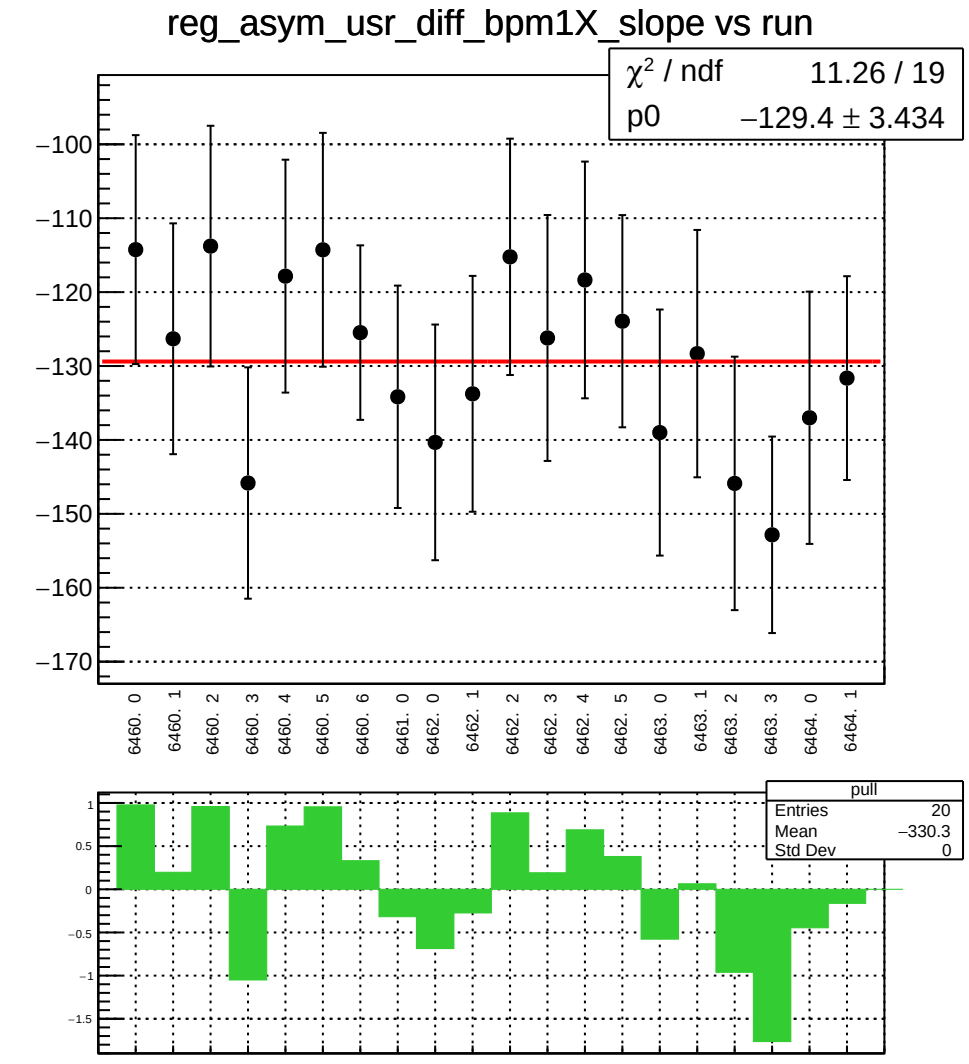

pull
Entries 20
Mean 38.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

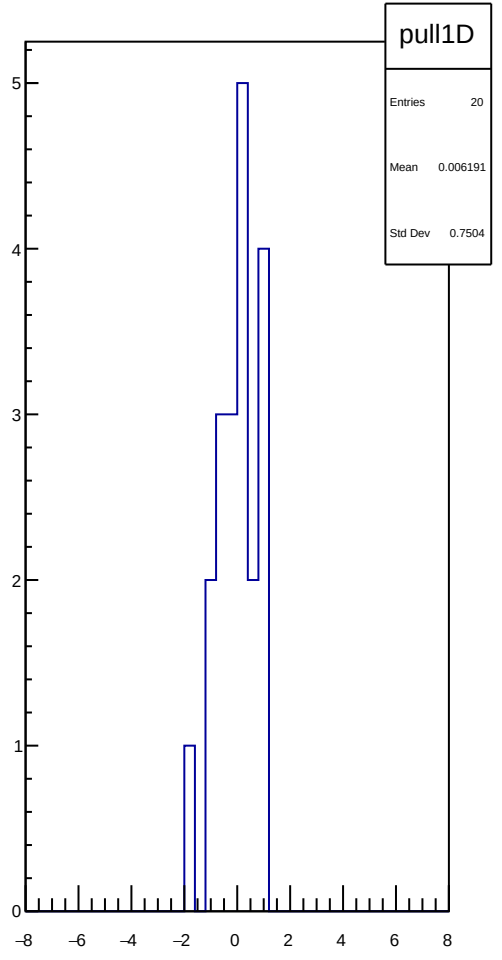

pull1D
Entries 20
Mean 0.01225
Std Dev 0.7155
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

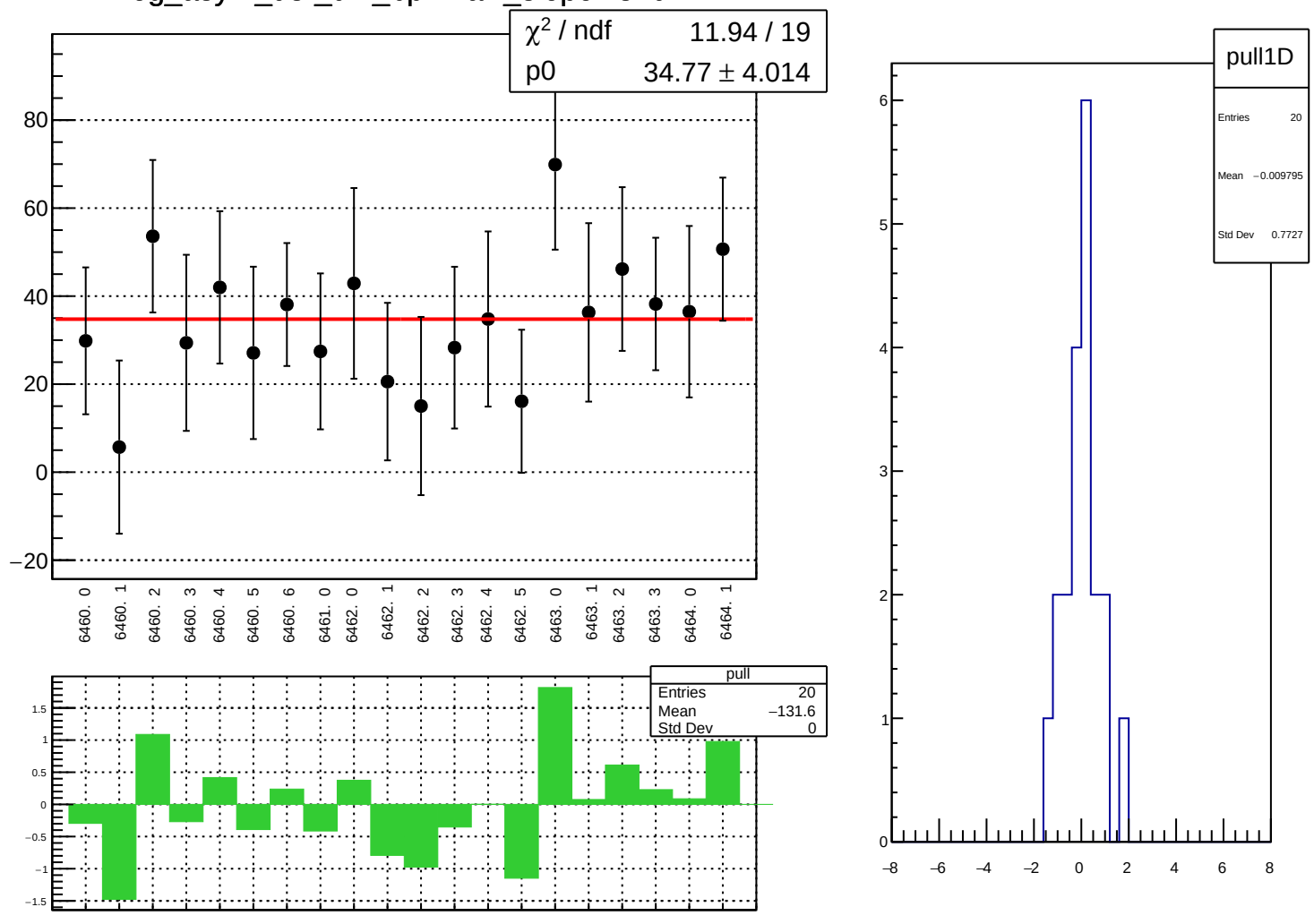

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 7.347 / 19
p0 −26.44 ± 4.062
20
10
0
−10
−20
−30
−40
−50
−60
−70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −132.9
Std Dev 0
1
0.5
0
−0.5
−1

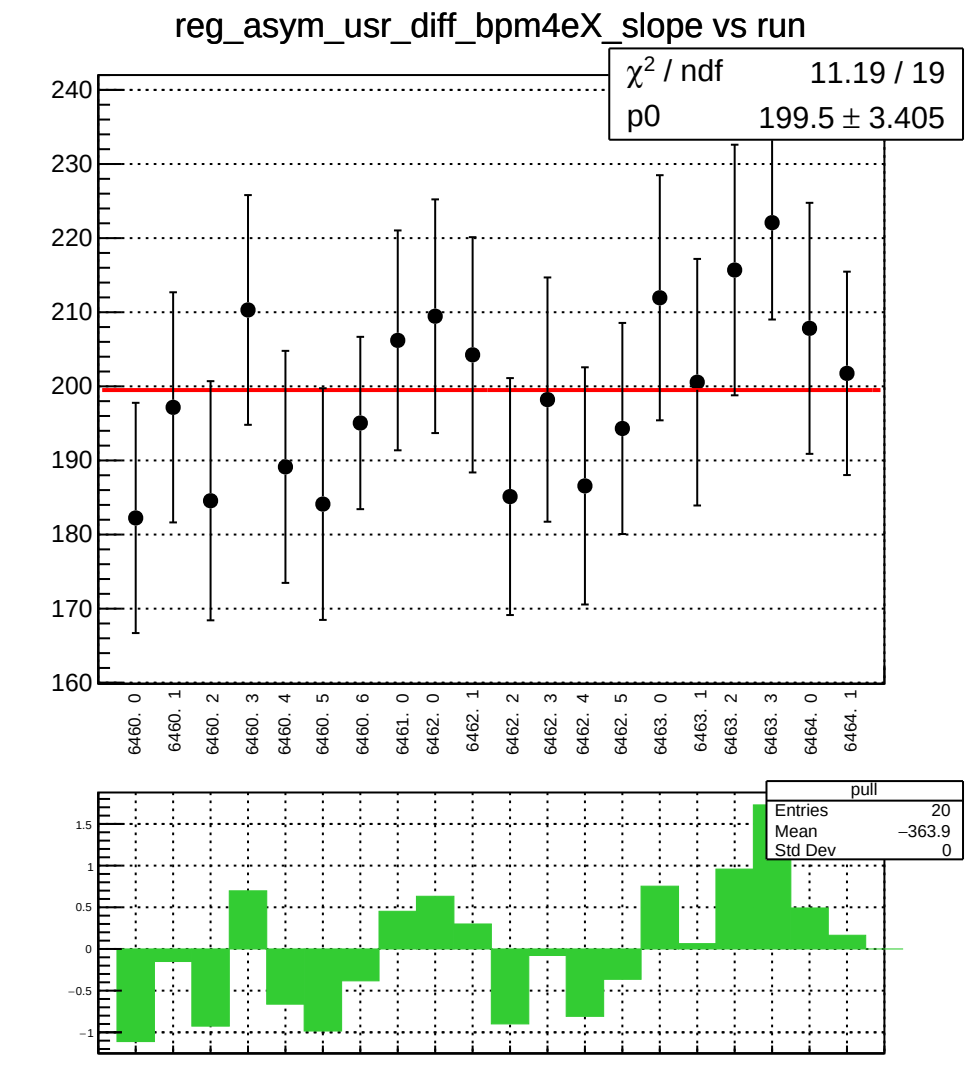

pull1D
Entries 20
Mean 0.01498
Std Dev 0.6059
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

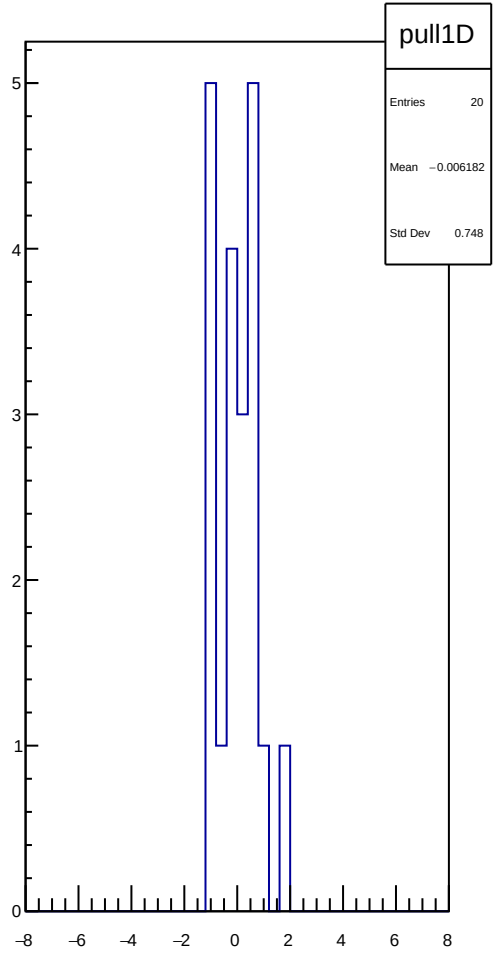

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 67.14 / 19
p0 −47.37 ± 0.1698
−45
−46
−47
−48
−49
−50
−51
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −323.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 20
Mean 0.02807
Std Dev 1.832
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

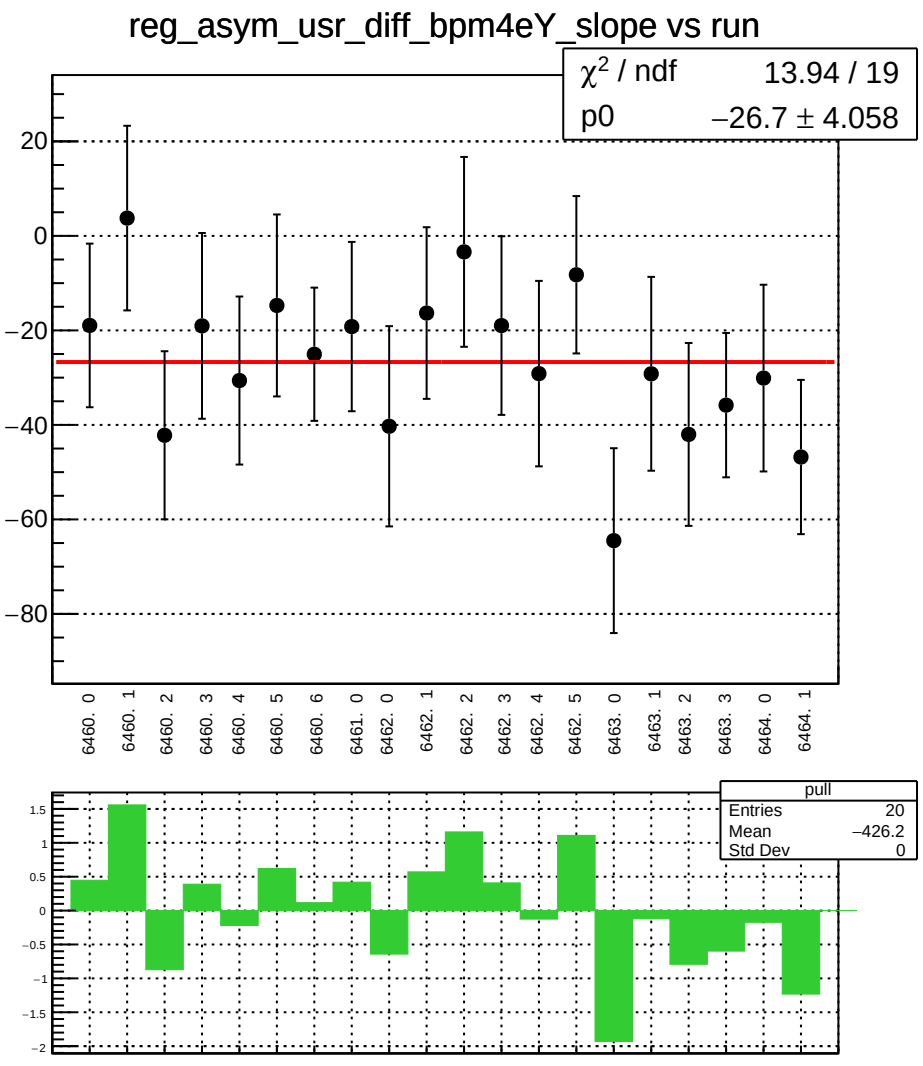

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 11.26 / 19
p0 −129.4 ± 3.434
−100
−110
−120
−130
−140
−150
−160
−170
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −330.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

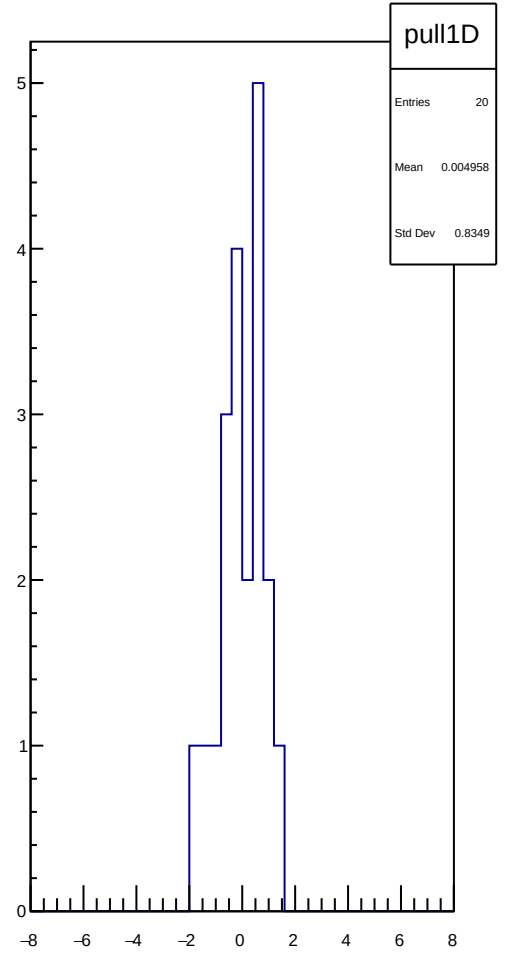

pull1D
Entries 20
Mean 0.006191
Std Dev 0.7504
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

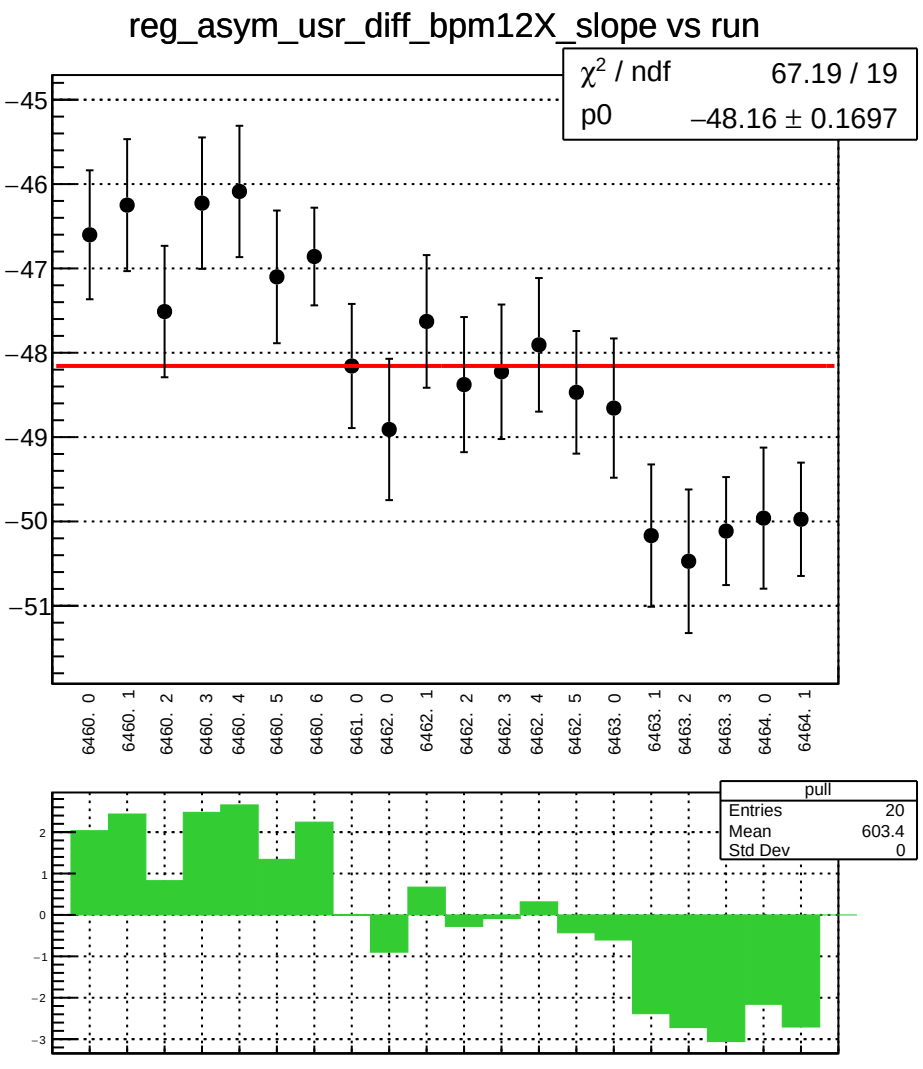

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 11.94 / 19
p0 34.77 ± 4.014
80
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −131.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.009795
Std Dev 0.7727
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

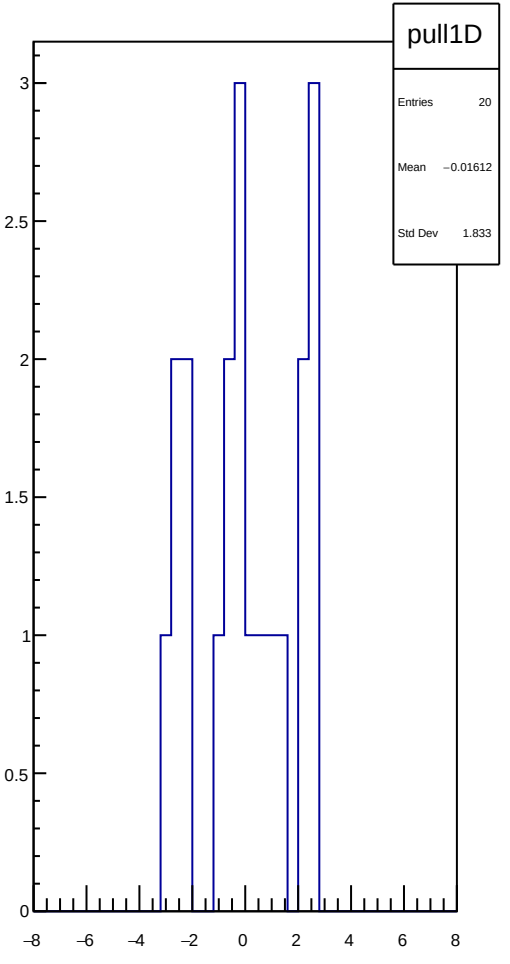

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 11.19 / 19
p0 199.5 ± 3.405
240
230
220
210
200
190
180
170
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −363.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

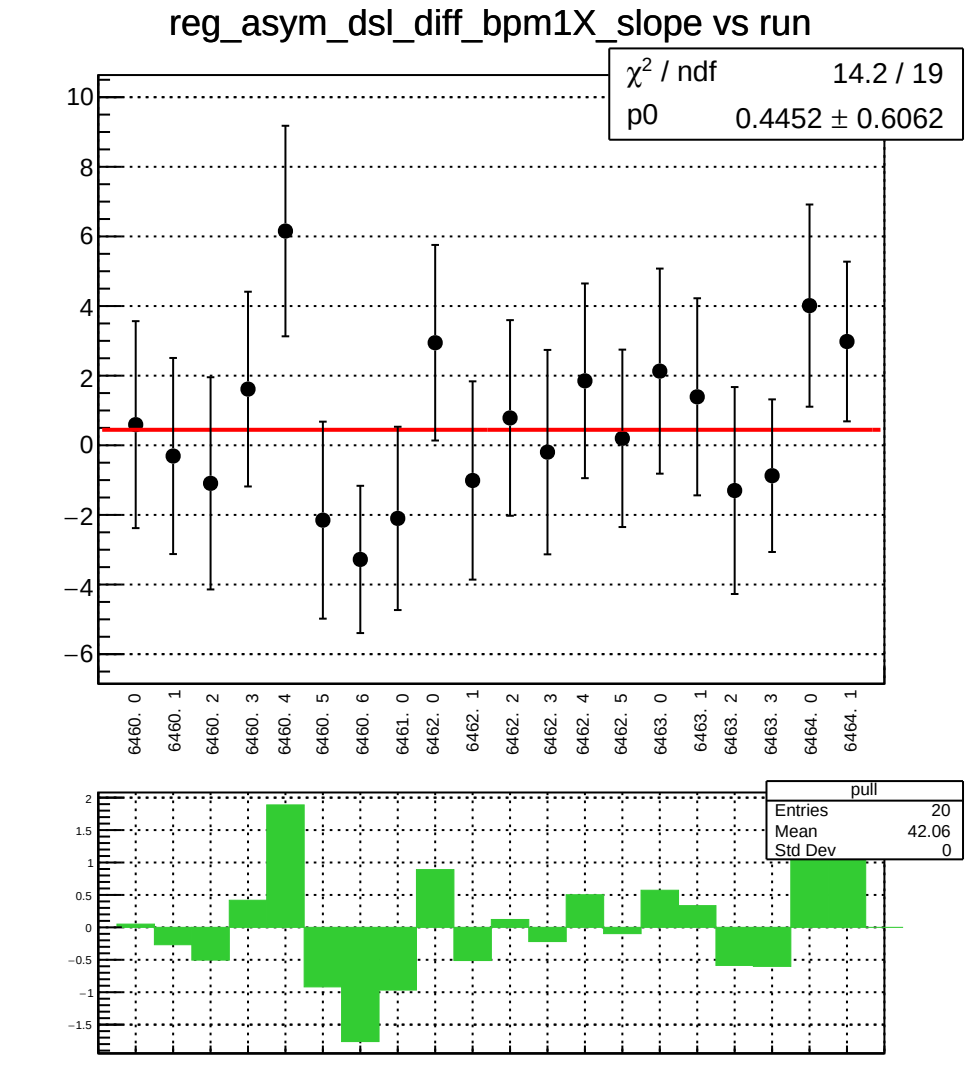

pull1D
Entries 20
Mean −0.006182
Std Dev 0.748
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

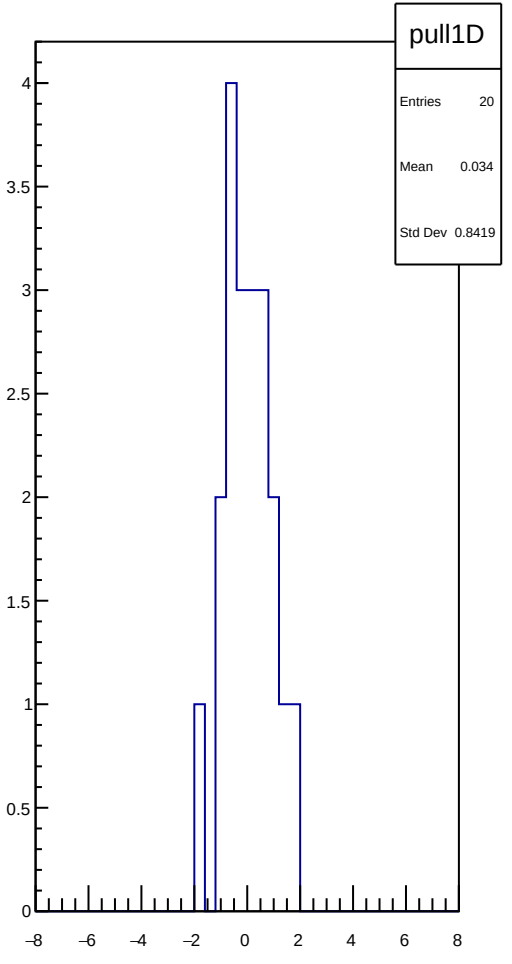

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 13.94 / 19
p0 −26.7 ± 4.058
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −426.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

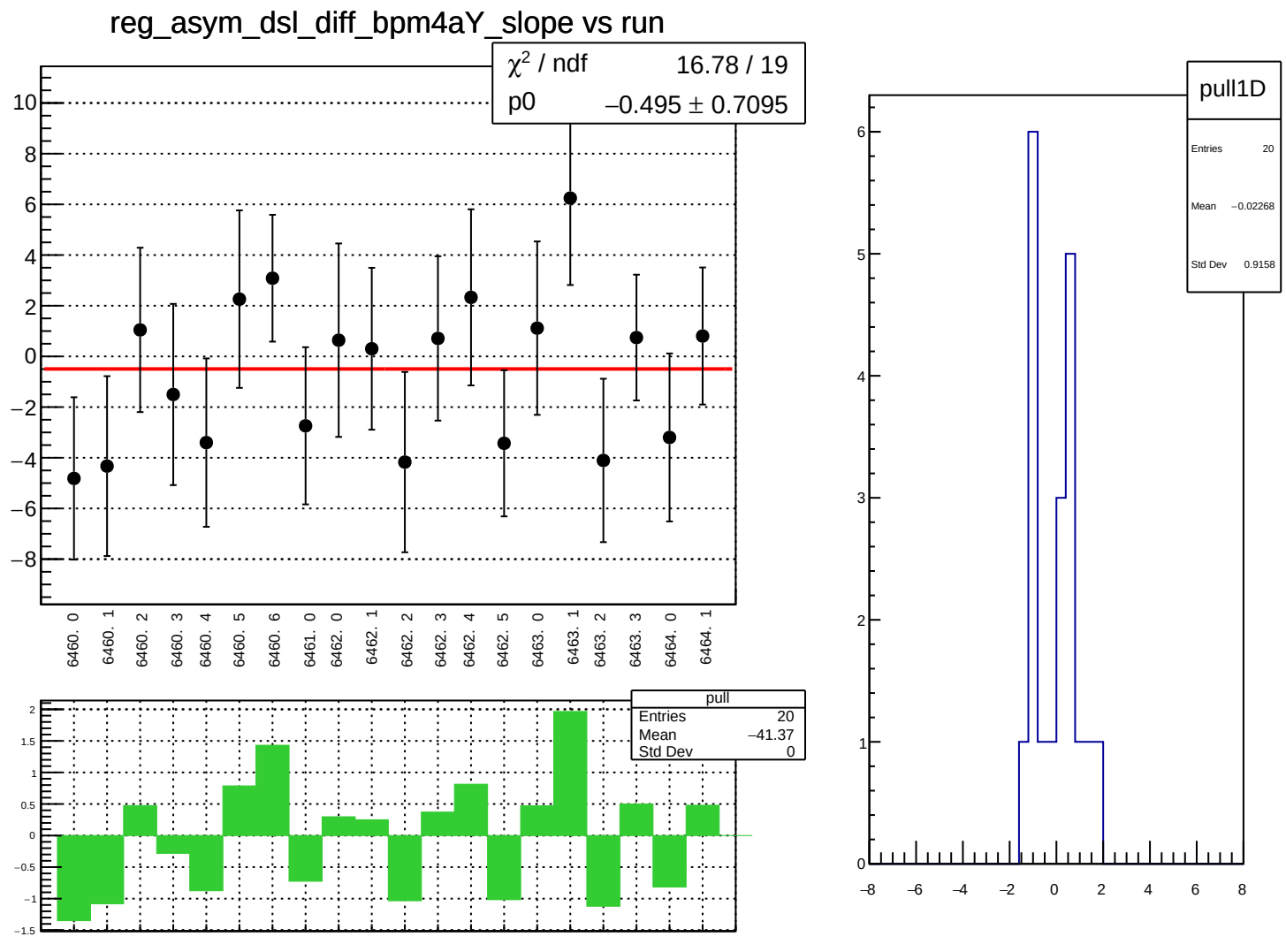

pull1D
Entries 20
Mean 0.004958
Std Dev 0.8349
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

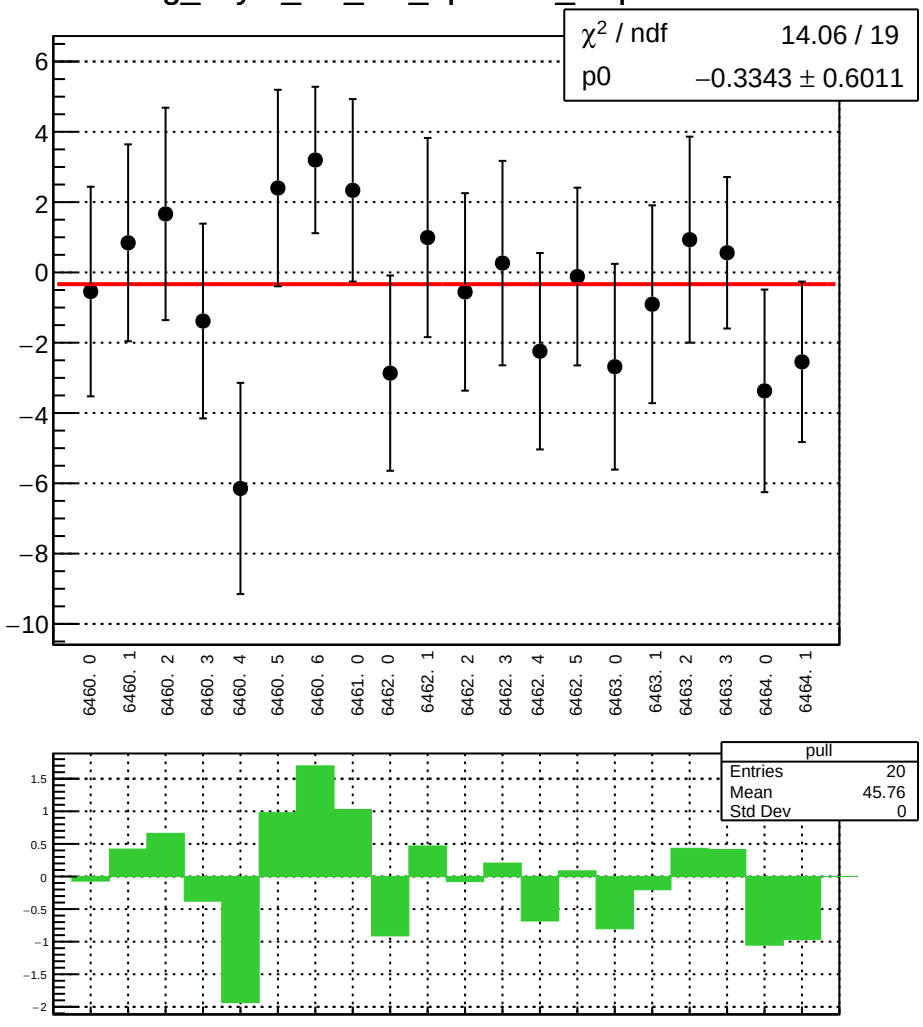

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 67.19 / 19
p0 −48.16 ± 0.1697
−45
−46
−47
−48
−49
−50
−51
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 603.4
Std Dev 0
2
1
0
−1
−2
−3

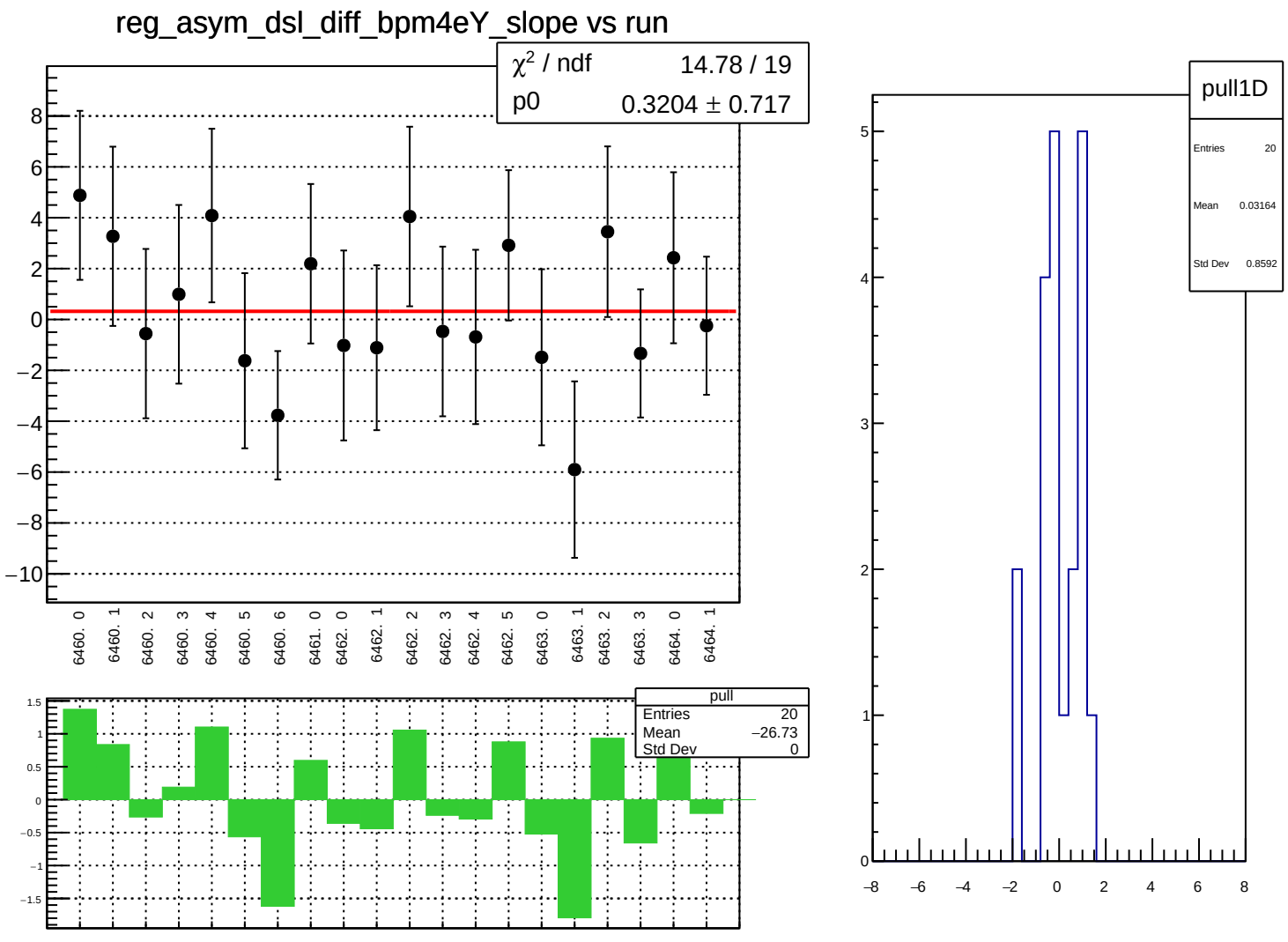

pull1D
Entries 20
Mean −0.01612
Std Dev 1.833
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

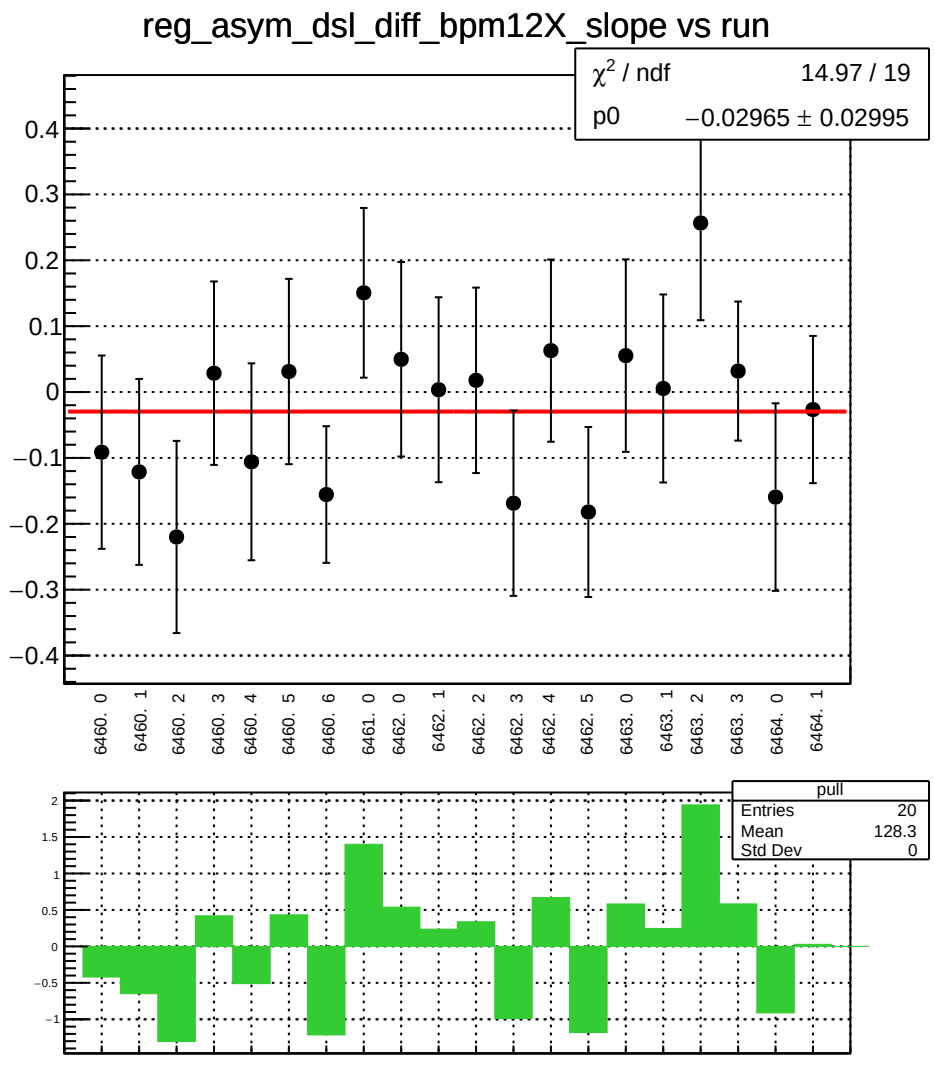

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 14.2 / 19
p0 0.4452 ± 0.6062
10
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 42.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

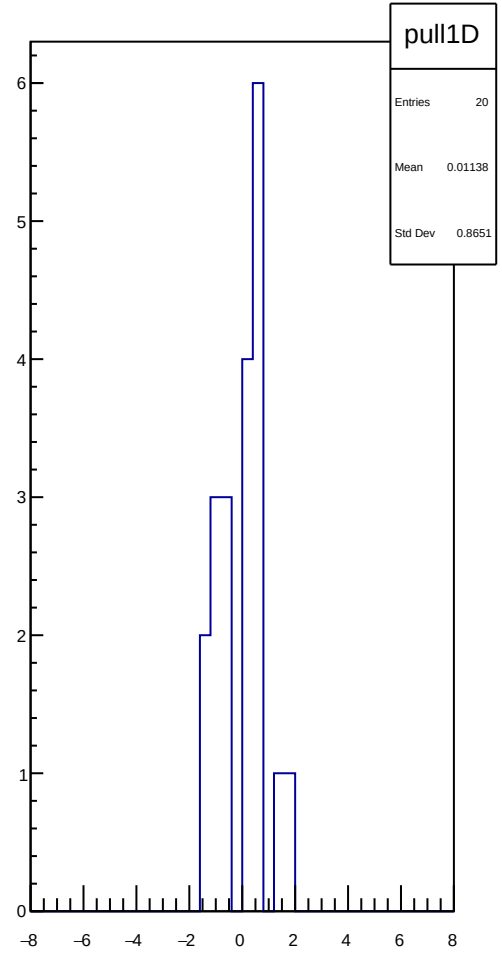

pull1D
Entries 20
Mean 0.034
Std Dev 0.8419
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

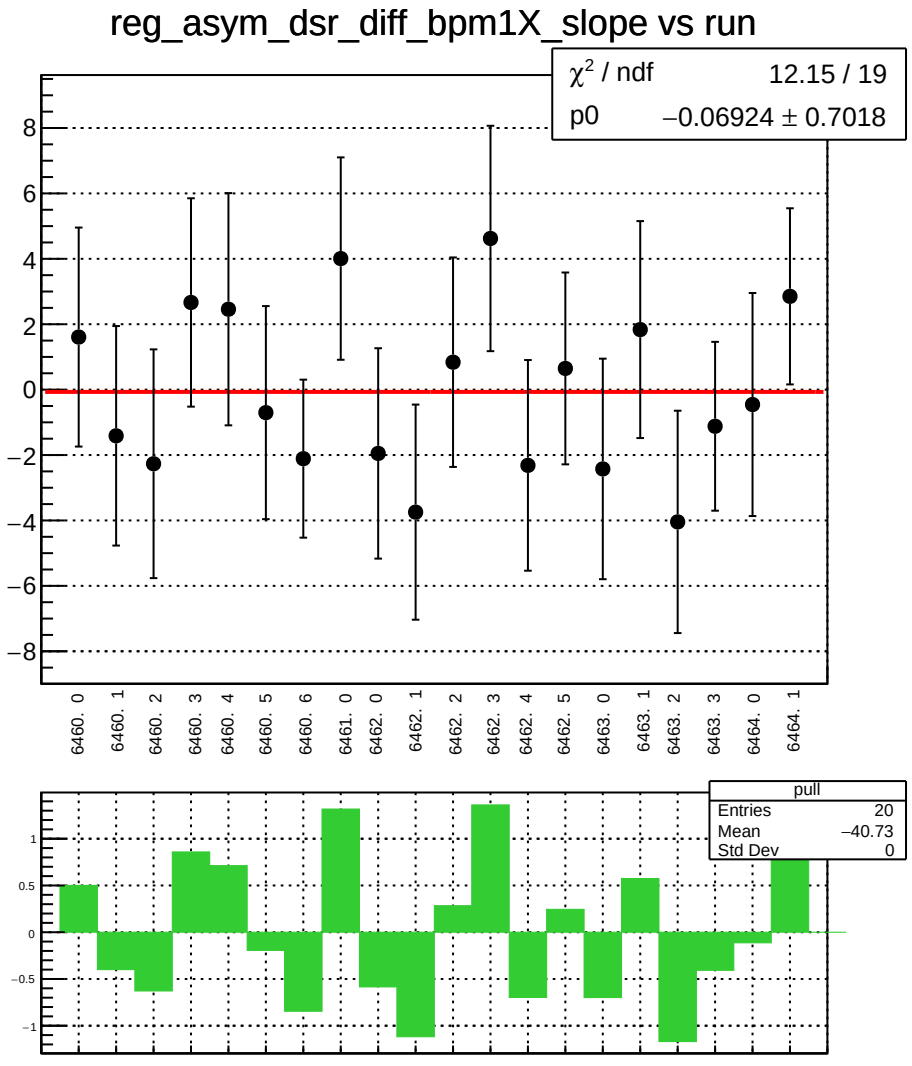

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 16.78 / 19
p0 −0.495 ± 0.7095
10
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −41.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02268
Std Dev 0.9158
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

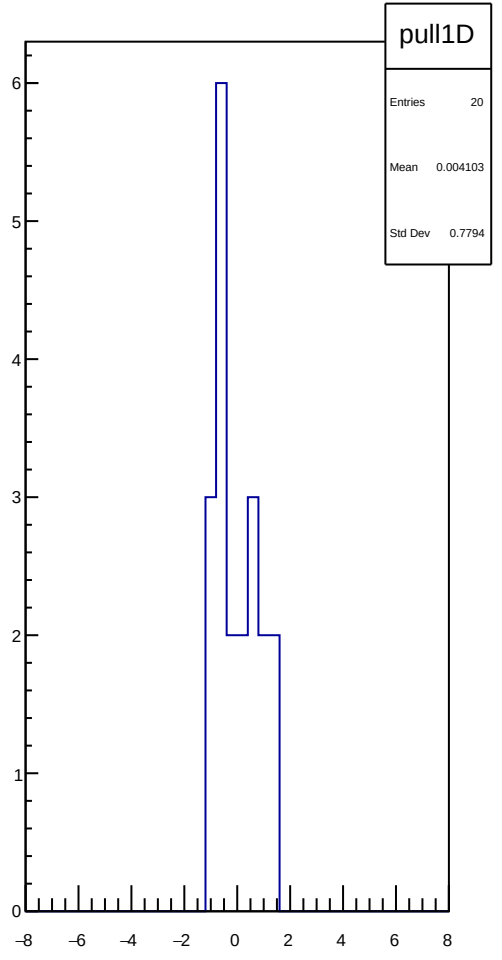

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 14.06 / 19
p0 −0.3343 ± 0.6011
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 45.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.03446
Std Dev 0.8377
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

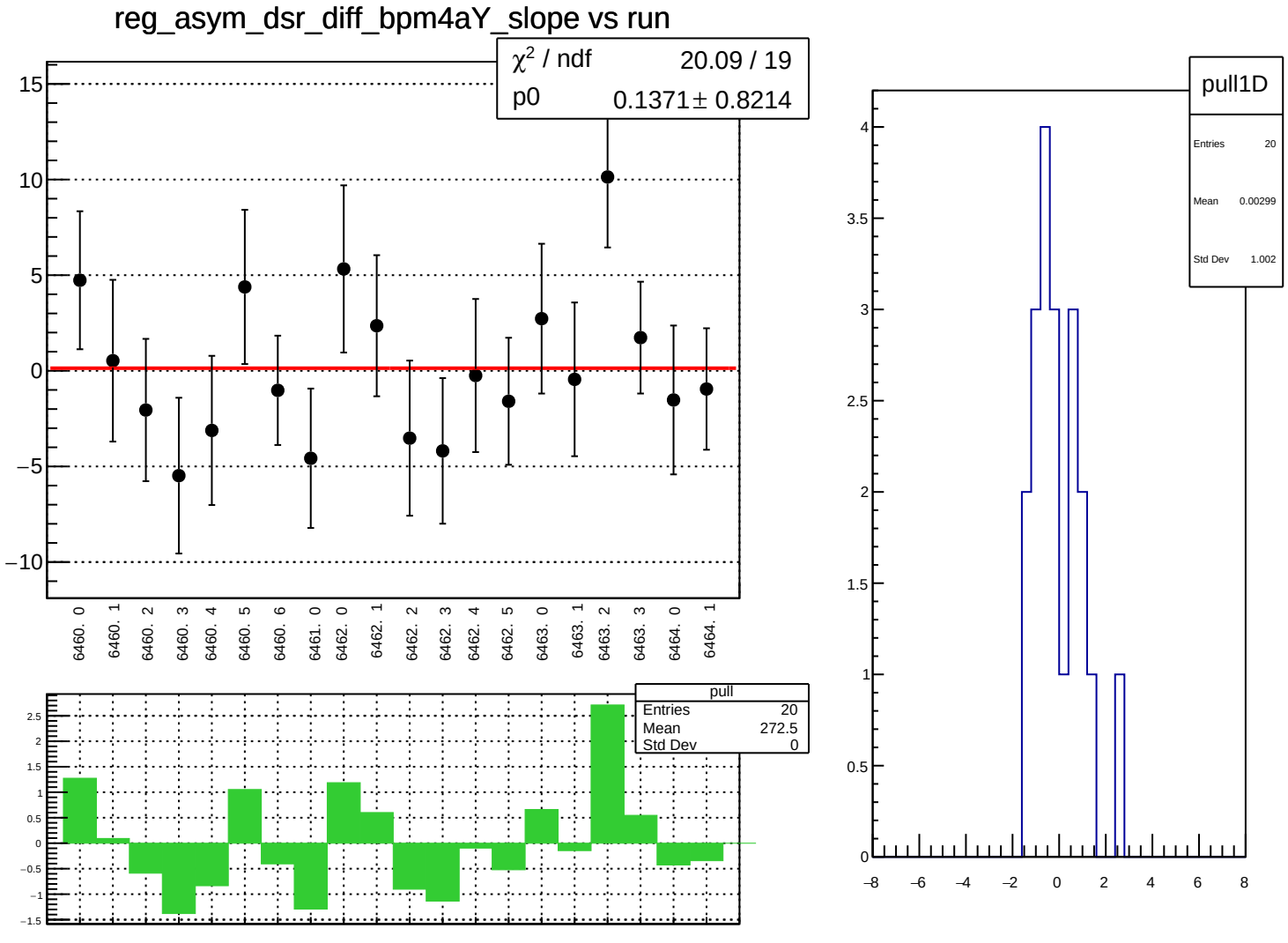

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 14.78 / 19
p0 0.3204 ± 0.717
8
6
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −26.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03164
Std Dev 0.8592
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

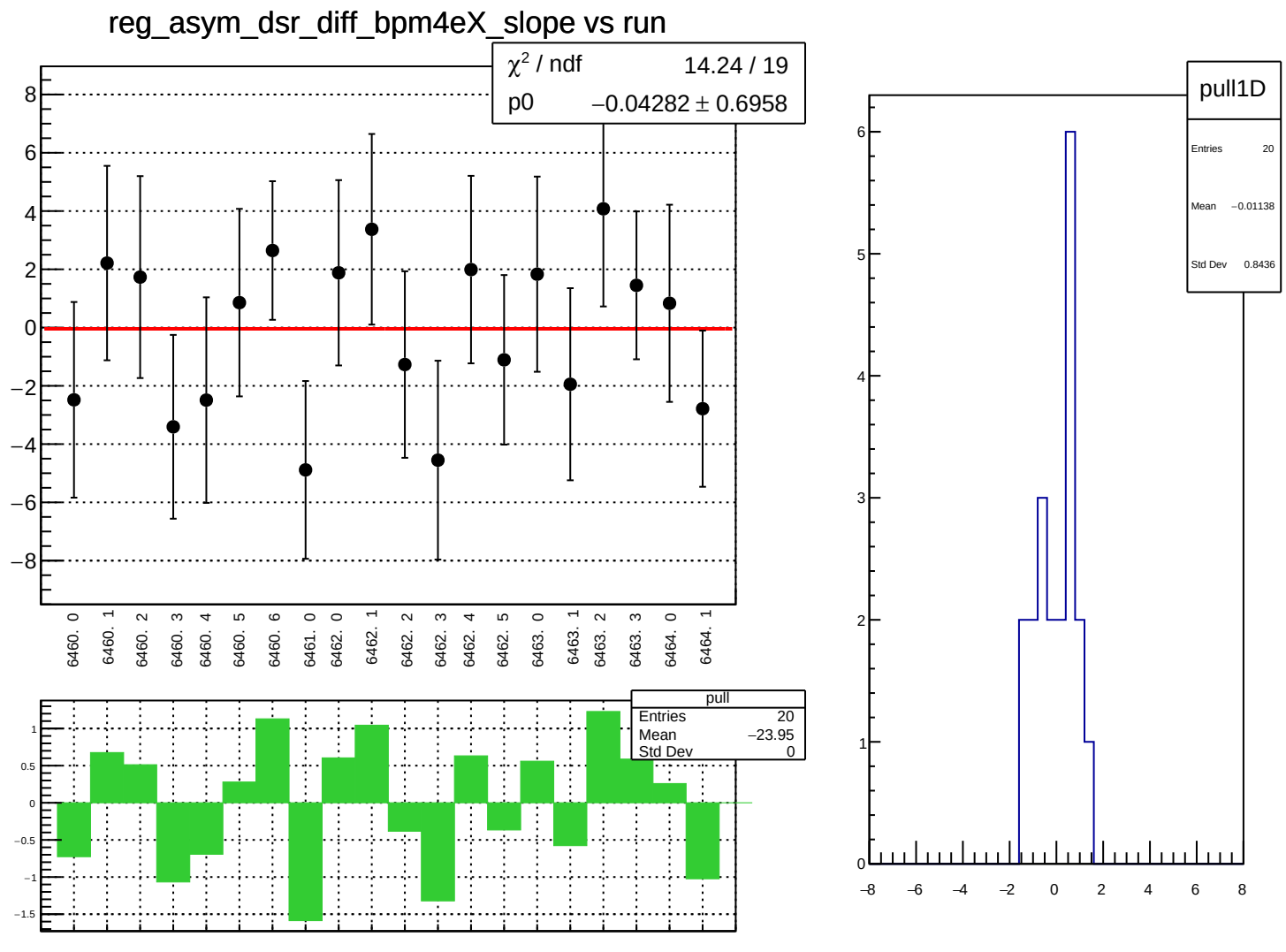

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 14.97 / 19
p0 −0.02965 ± 0.02995
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 128.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

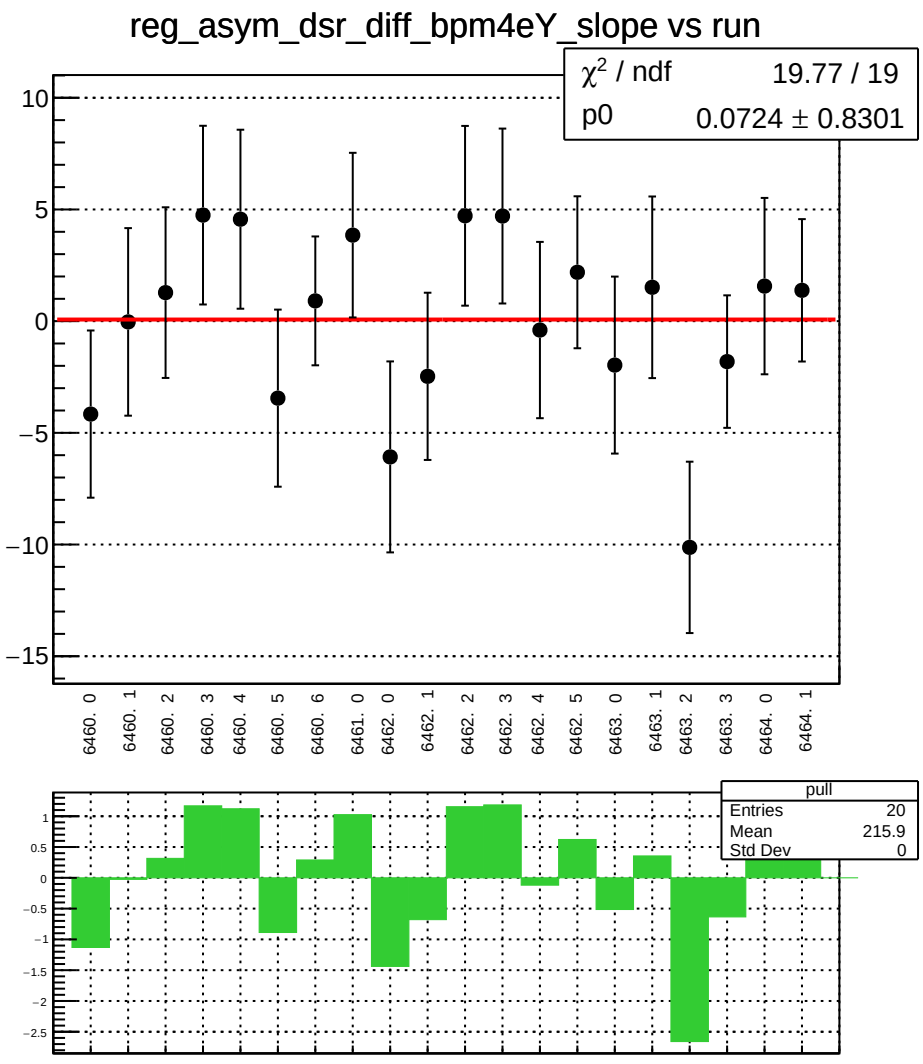

pull1D
Entries 20
Mean 0.01138
Std Dev 0.8651
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

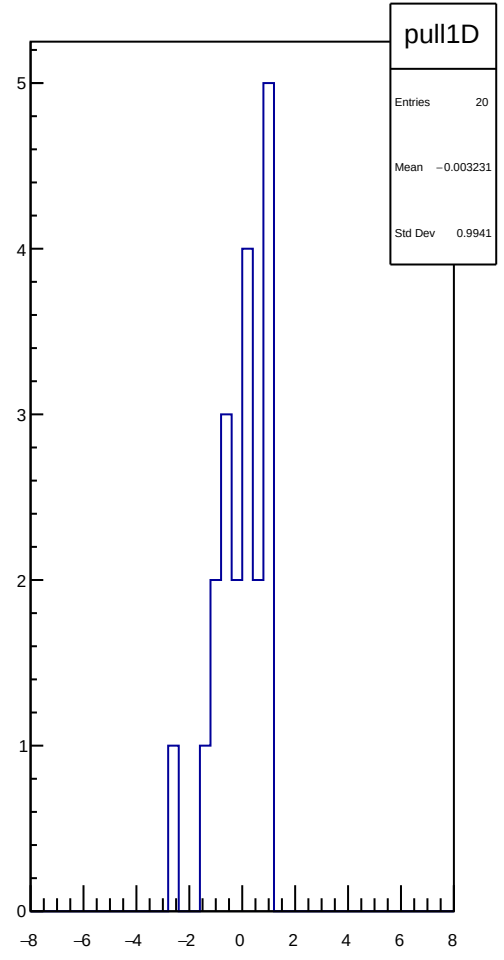

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 12.15 / 19
p0 −0.06924 ± 0.7018
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −40.73
Std Dev 0
1
0.5
0
−0.5
−1

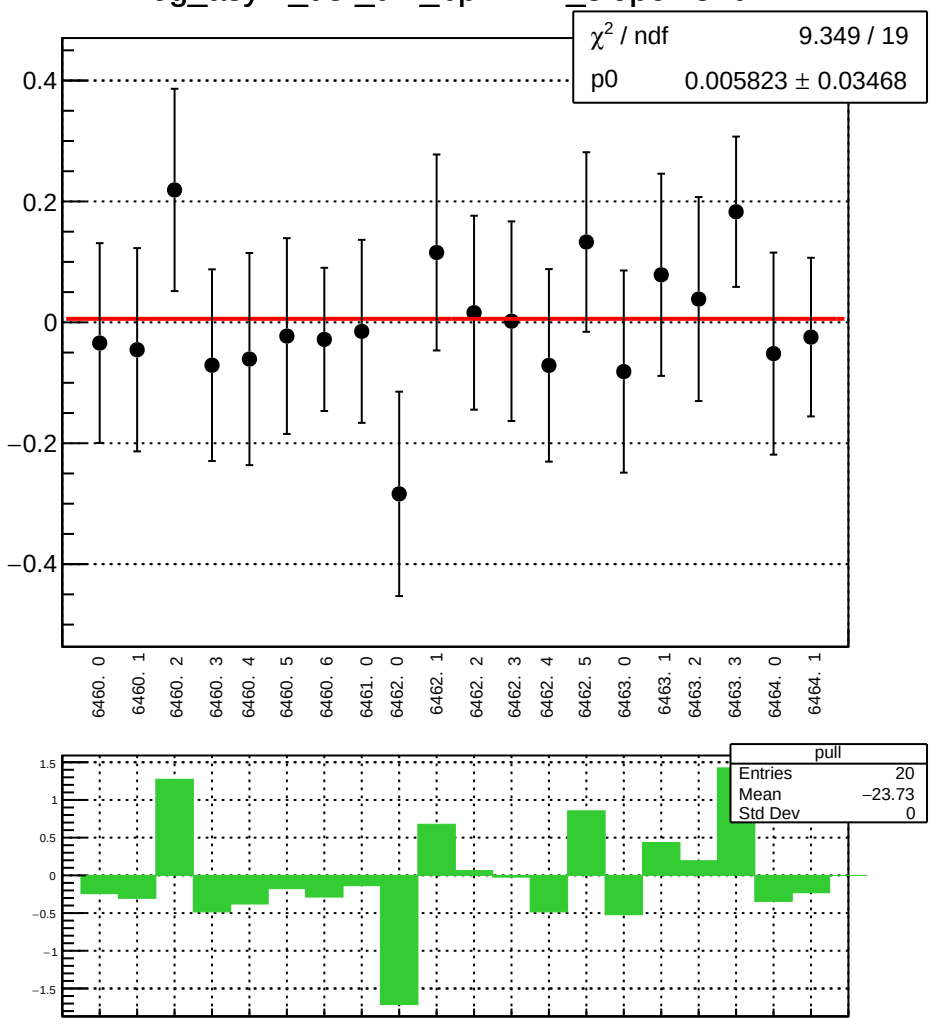

pull1D
Entries 20
Mean 0.004103
Std Dev 0.7794
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

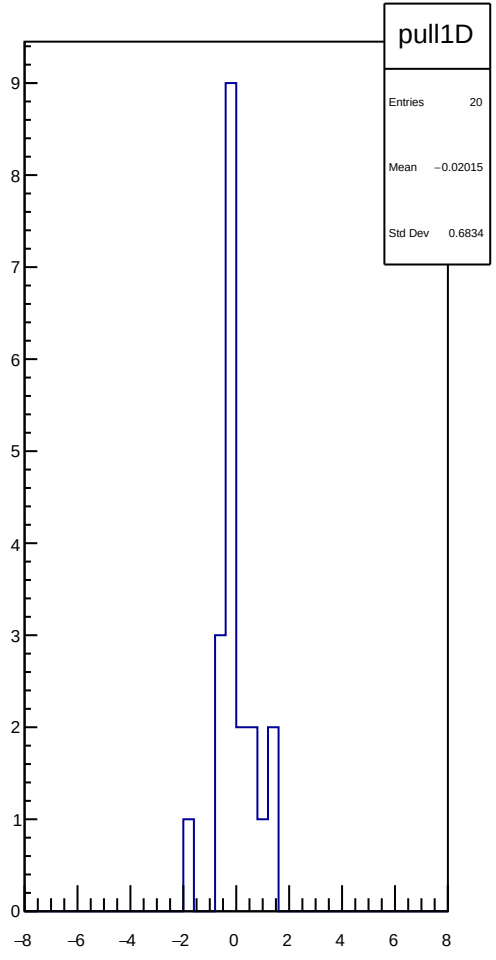

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 20.09 / 19
p0 0.1371± 0.8214
15
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 272.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.00299
Std Dev 1.002
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

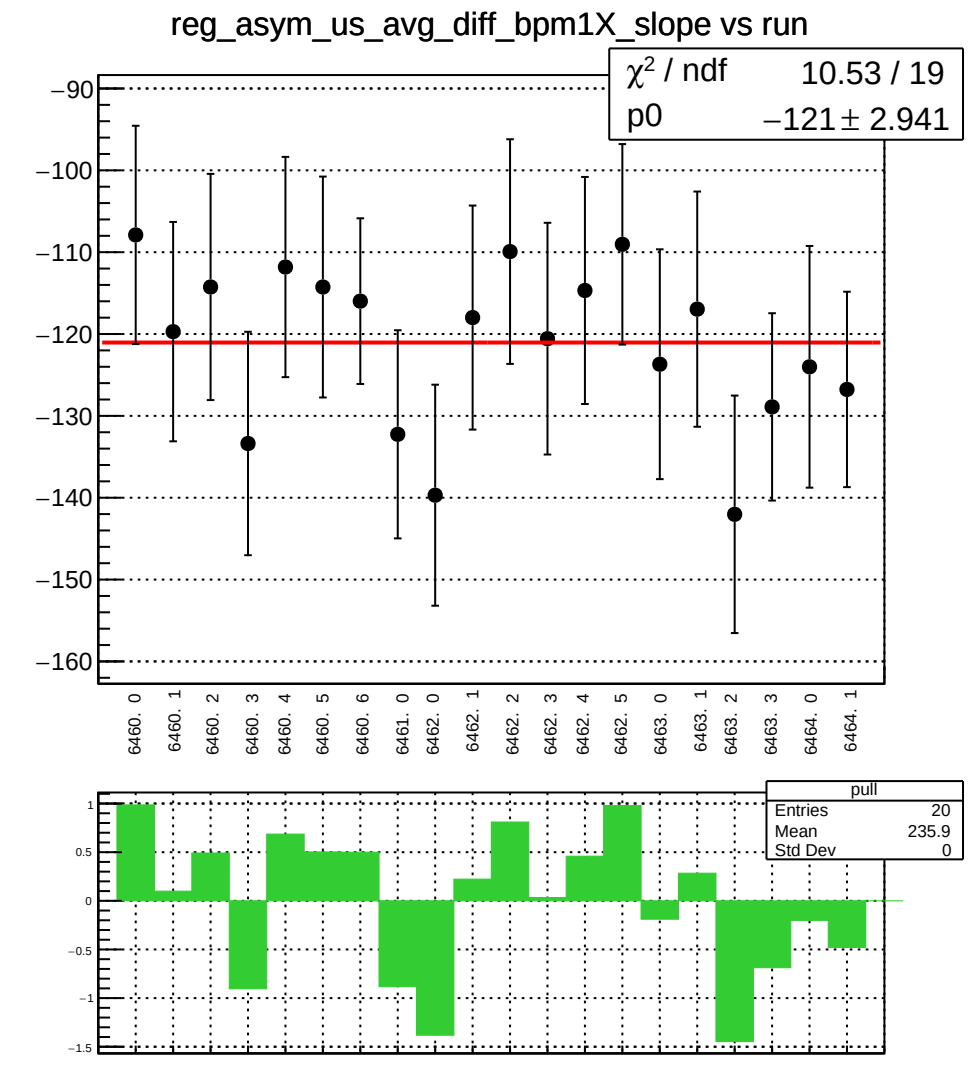

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 14.24 / 19
p0 −0.04282 ± 0.6958
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.95
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01138
Std Dev 0.8436
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

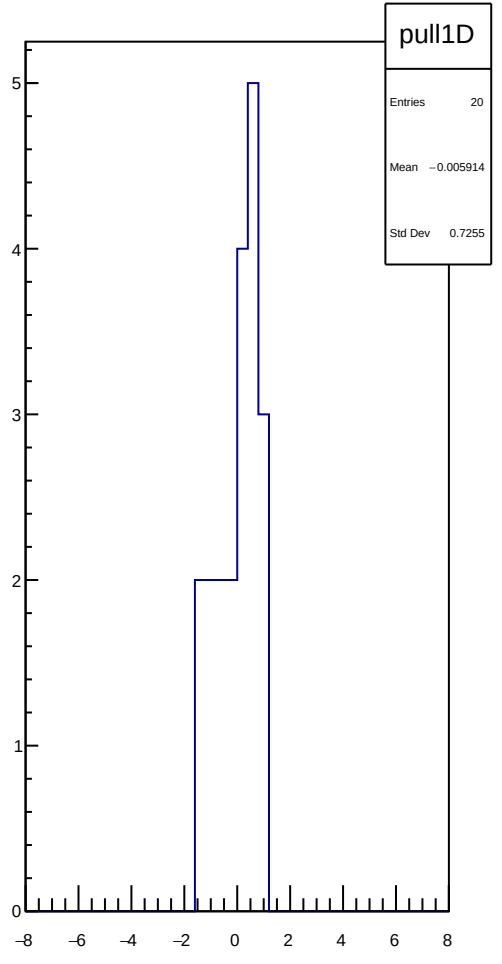

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 19.77 / 19
p0 0.0724 ± 0.8301
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 215.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

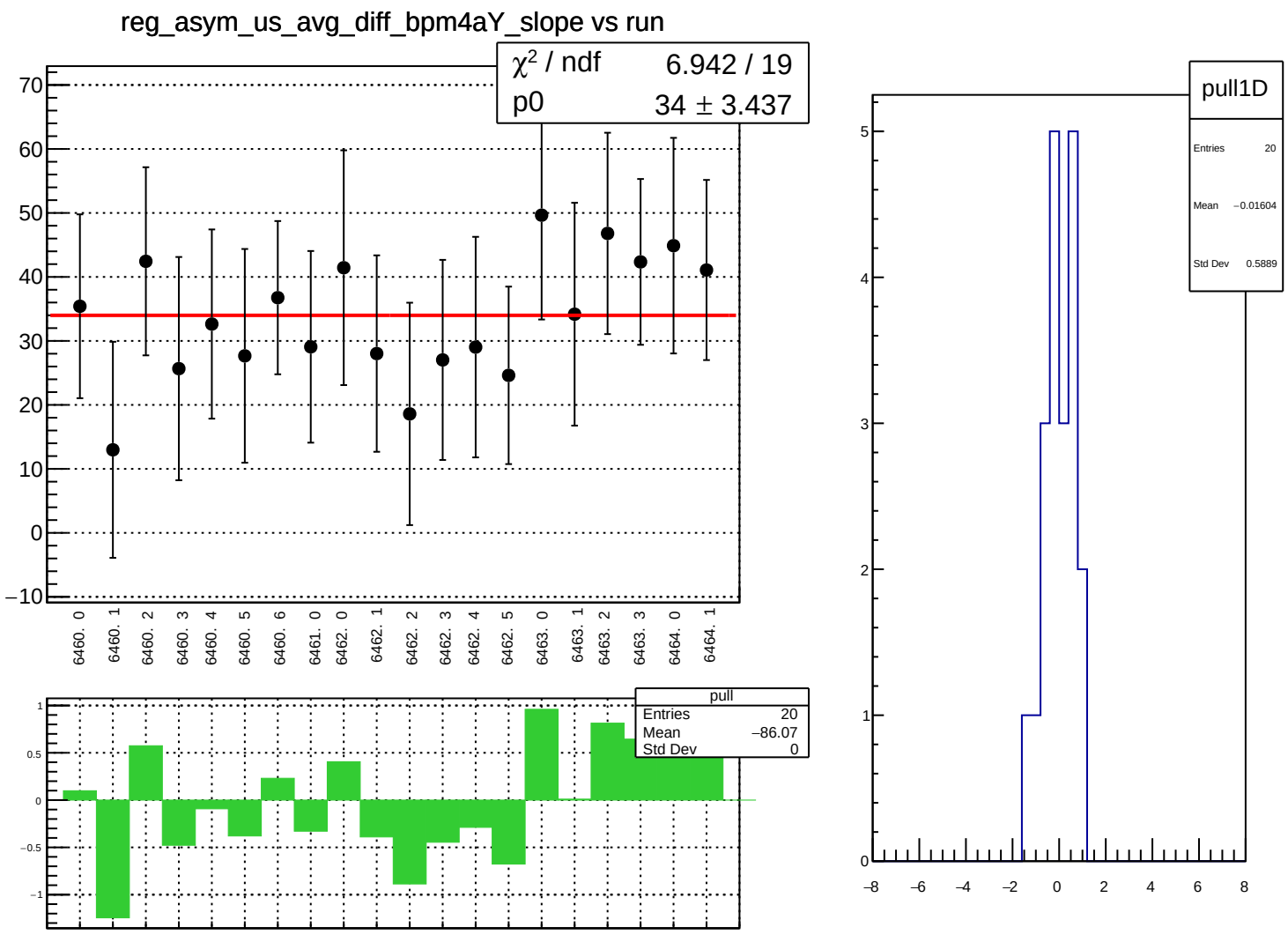

pull1D
Entries 20
Mean −0.003231
Std Dev 0.9941
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

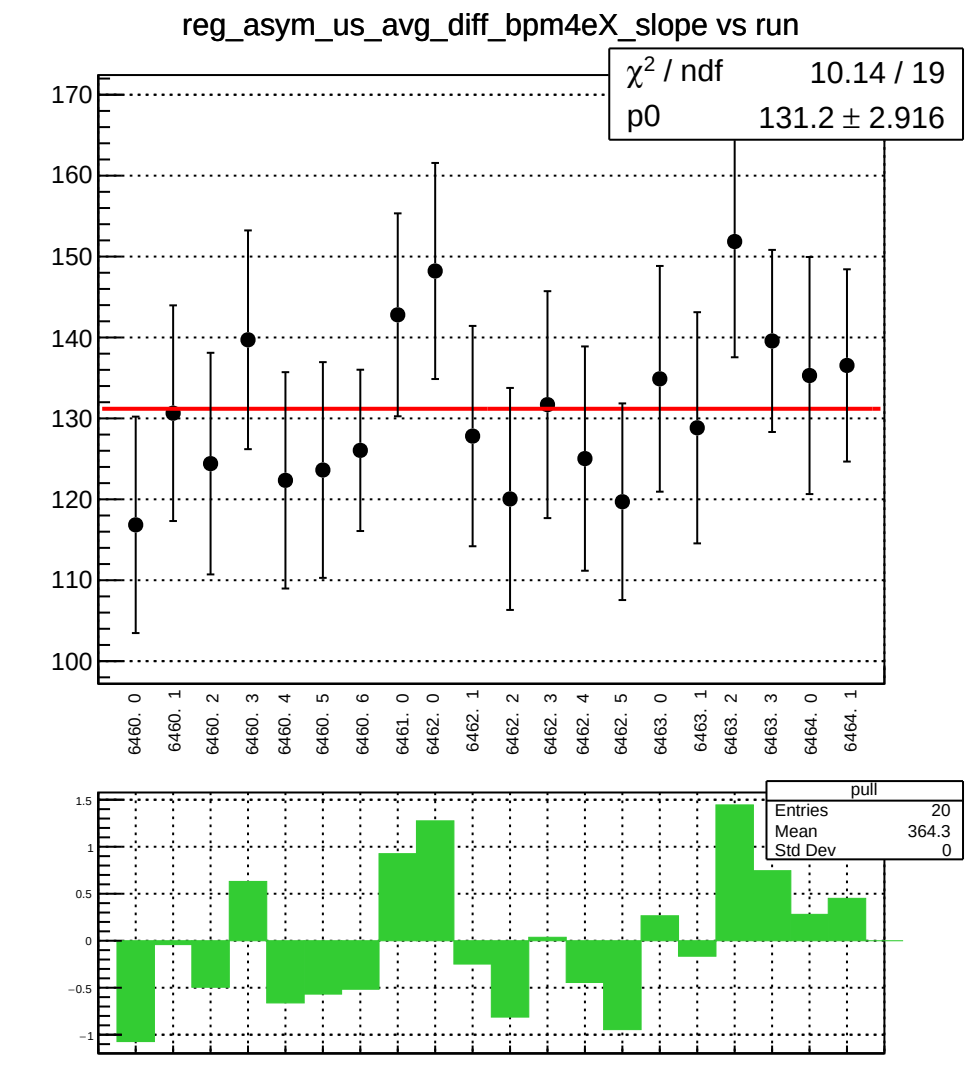

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 9.349 / 19
p0 0.005823 ± 0.03468
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −23.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

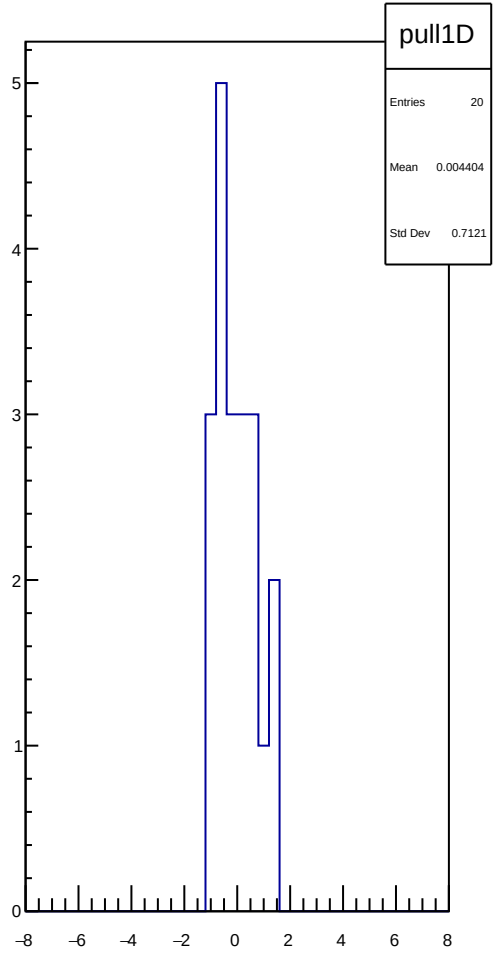

pull1D
Entries 20
Mean −0.02015
Std Dev 0.6834
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

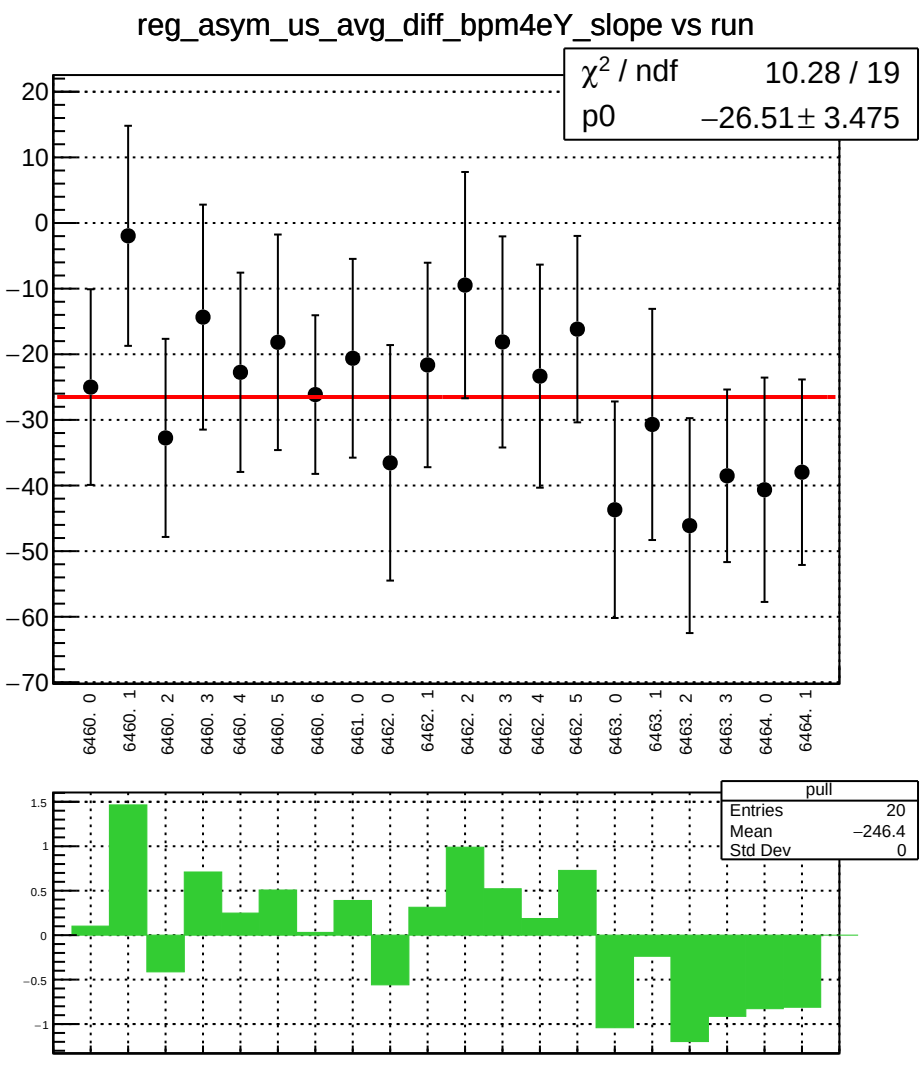

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 10.53 / 19
p0 −121 ± 2.941
−90
−100
−110
−120
−130
−140
−150
−160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 235.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

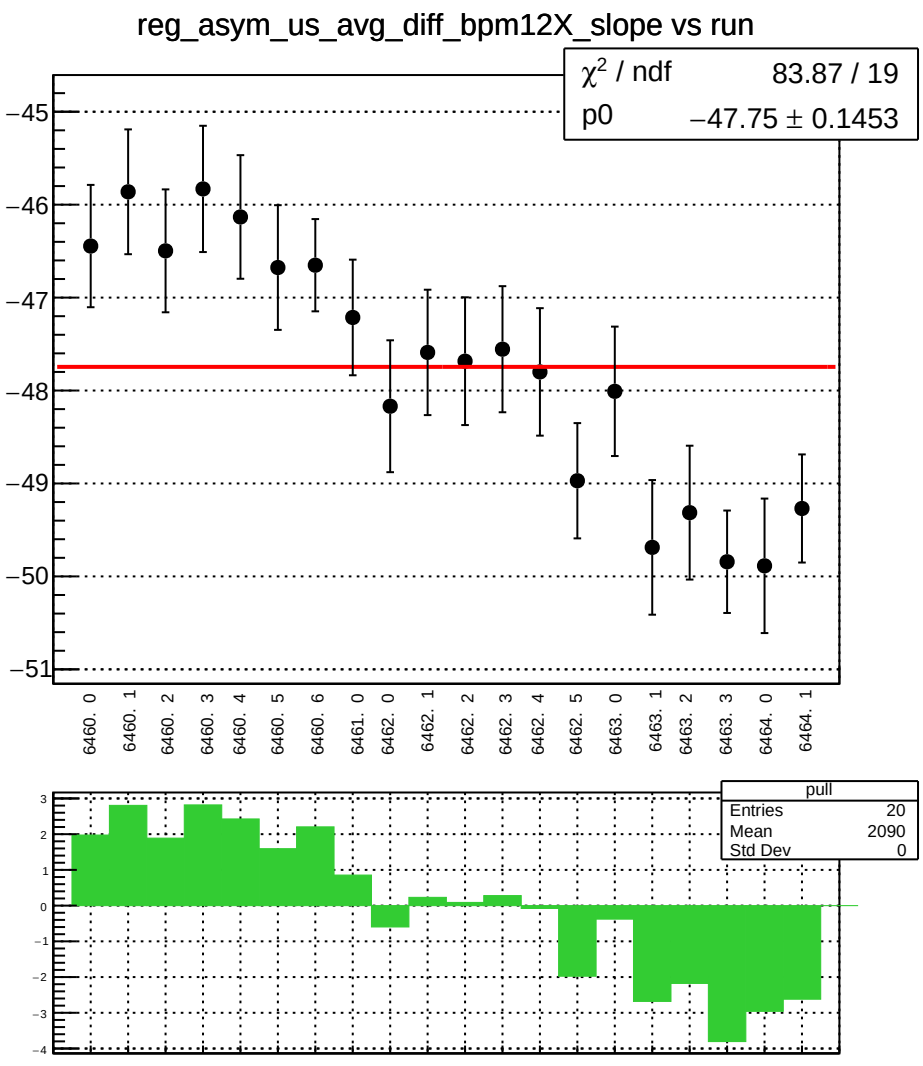

pull1D
Entries 20
Mean −0.005914
Std Dev 0.7255
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

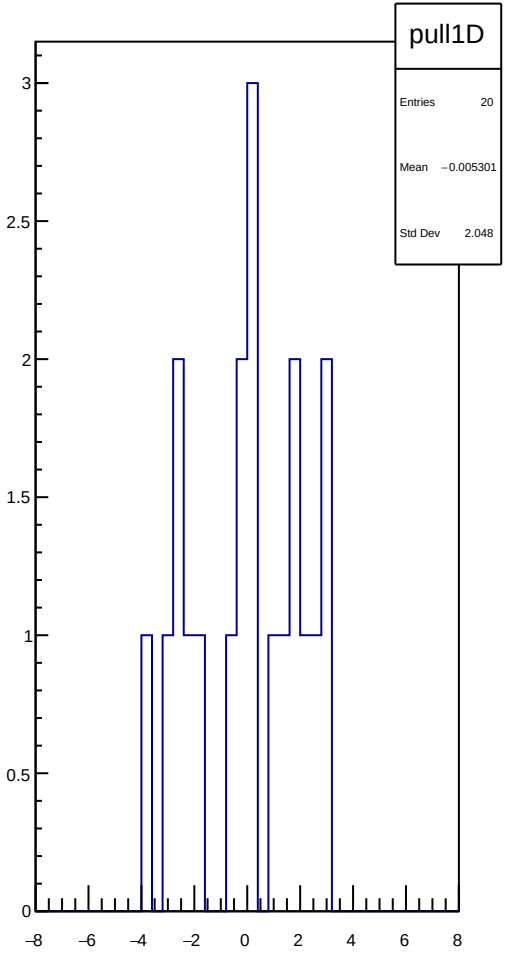

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.942 / 19
p0 34 ± 3.437
70
60
50
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −86.07
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01604
Std Dev 0.5889
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

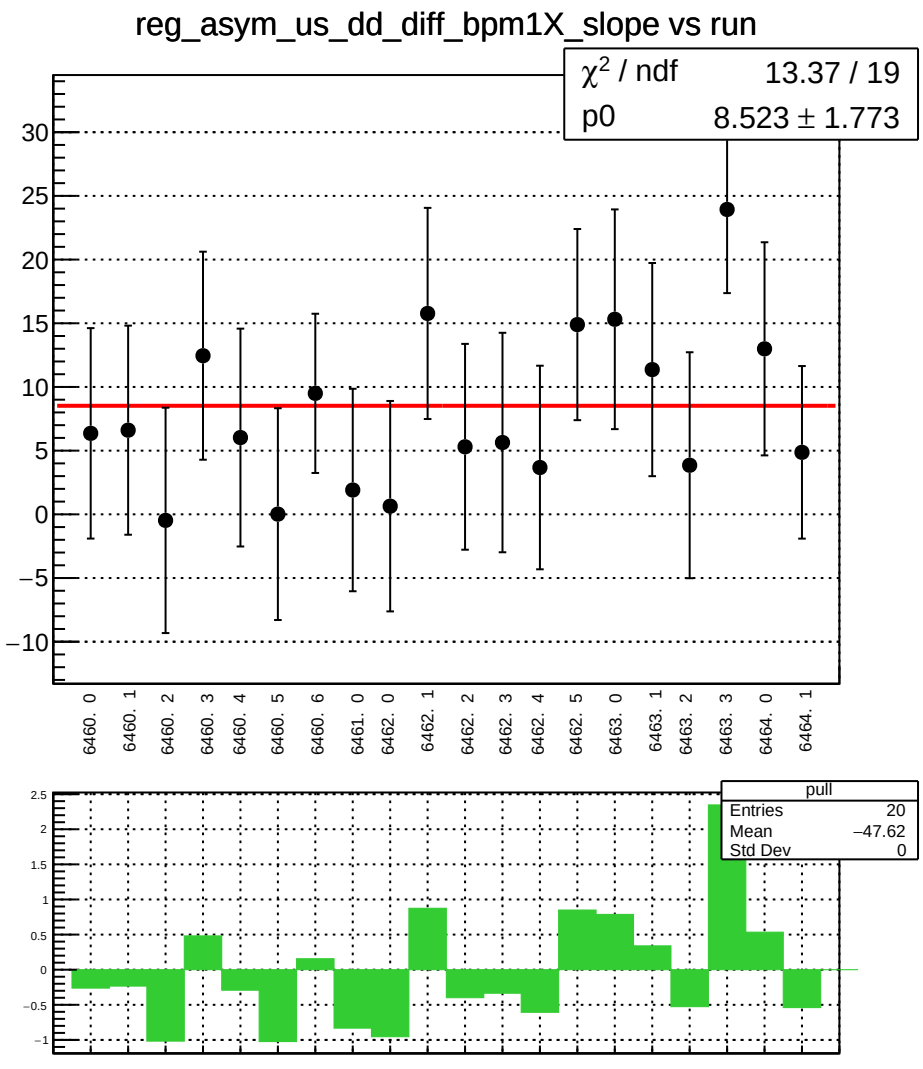

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.14 / 19
p0 131.2 ± 2.916
170
160
150
140
130
120
110
100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 364.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

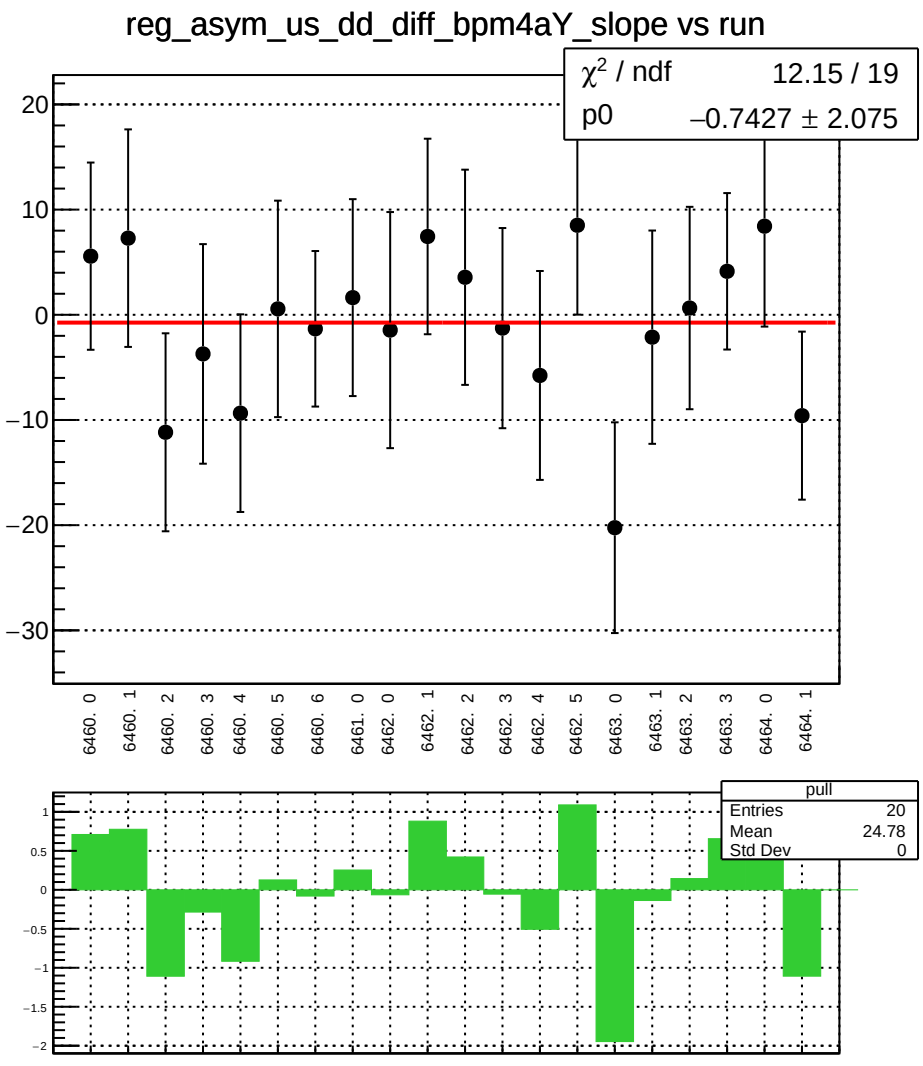

pull1D
Entries 20
Mean 0.004404
Std Dev 0.7121
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

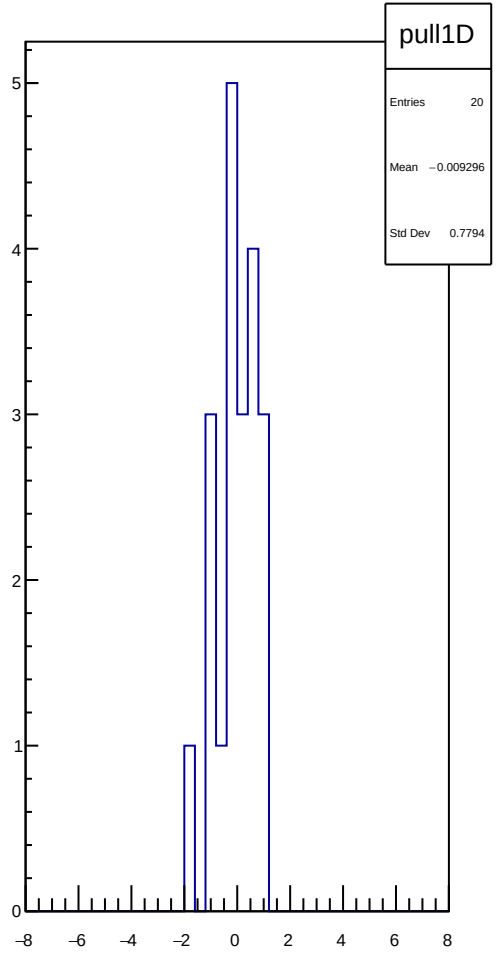

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.28 / 19
p0 −26.51 ± 3.475
20
10
0
−10
−20
−30
−40
−50
−60
−70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −246.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.009759
Std Dev 0.7168
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

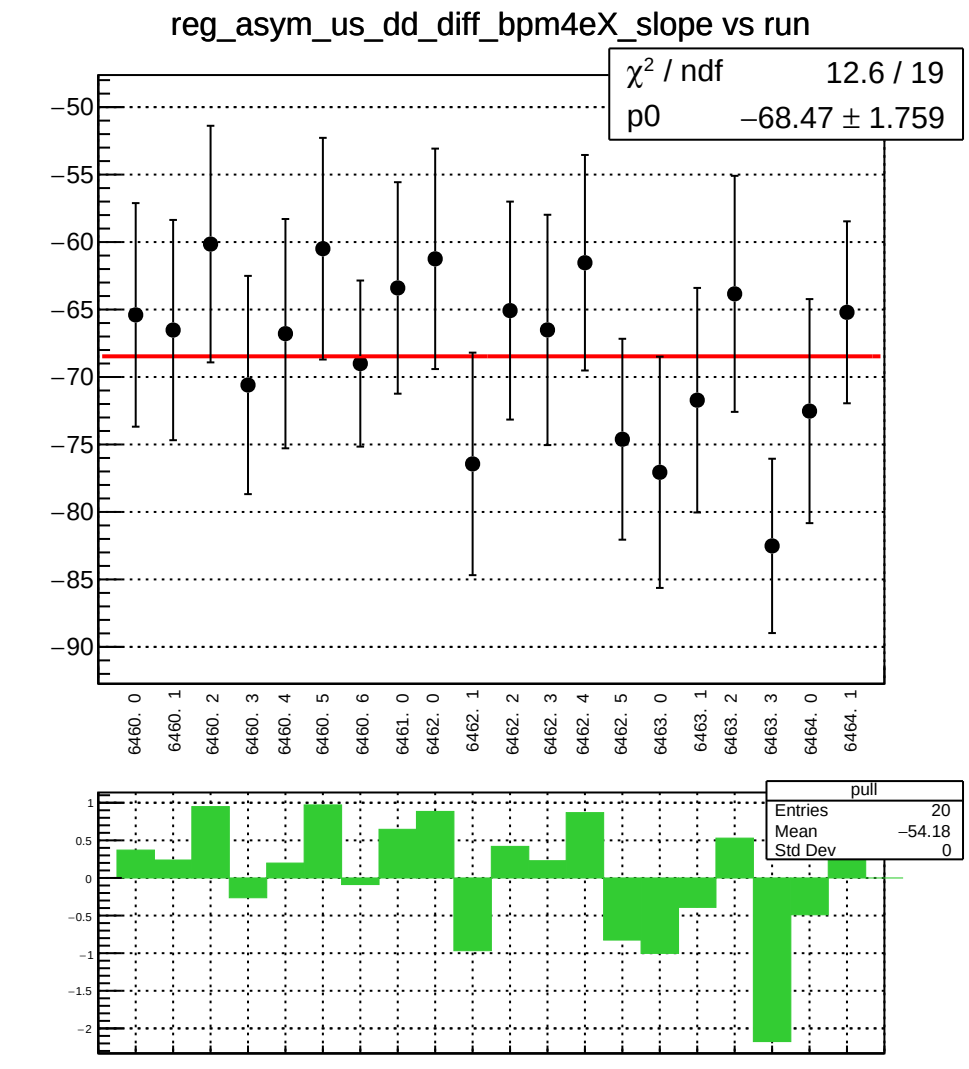

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 83.87 / 19
p0 −47.75 ± 0.1453
−45
−46
−47
−48
−49
−50
−51
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2090
Std Dev 0
3
2
1
0
−1
−2
−3
−4

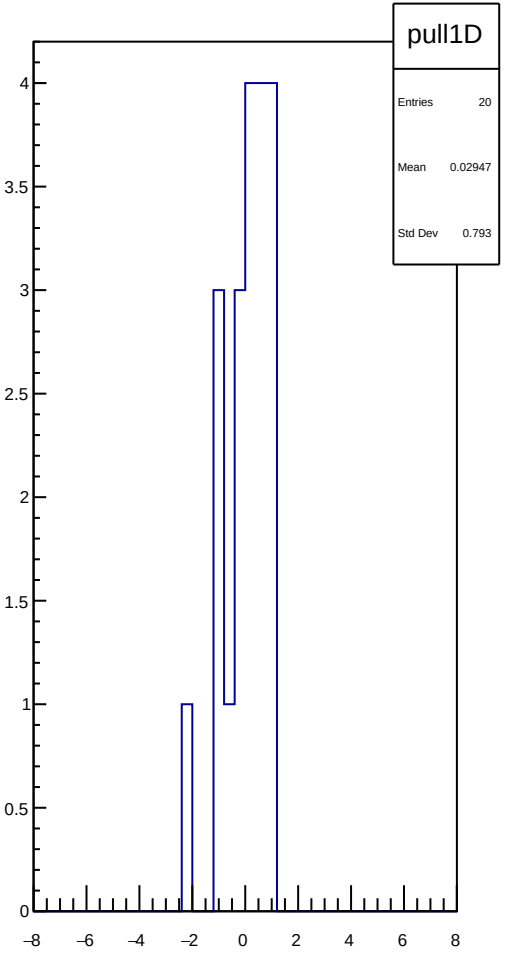

pull1D
Entries 20
Mean −0.005301
Std Dev 2.048
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

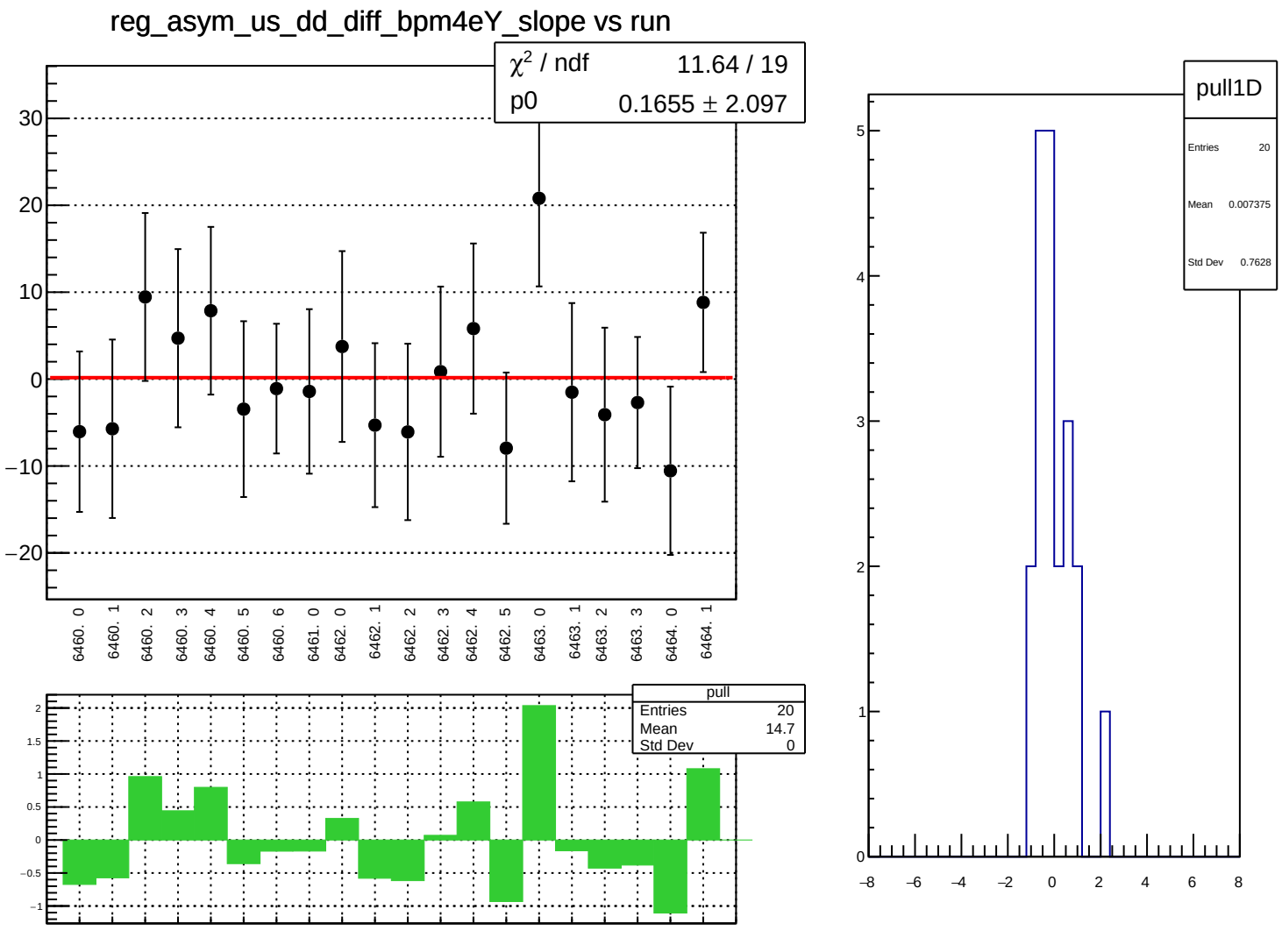

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 13.37 / 19
p0 8.523 ± 1.773
30
25
20
15
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −47.62
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.03251
Std Dev 0.8169
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

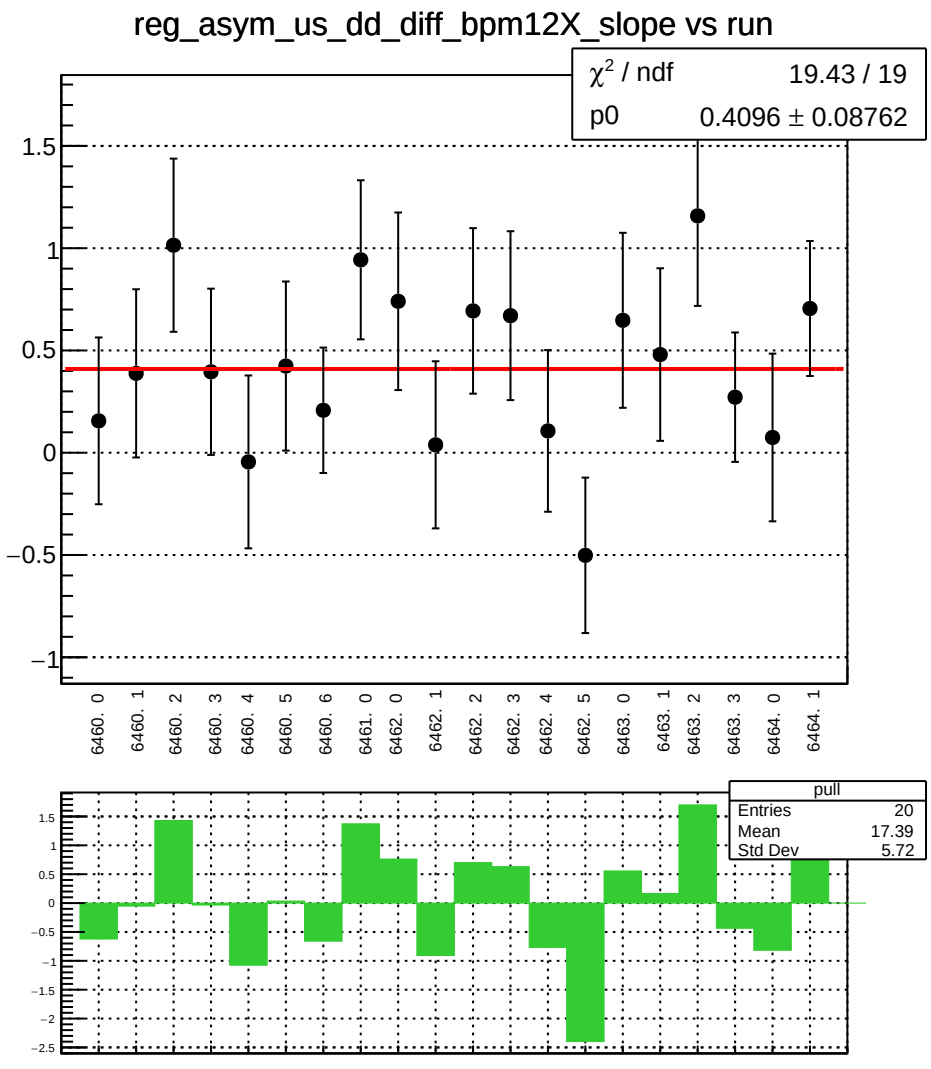

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.15 / 19
p0 −0.7427 ± 2.075
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 24.78
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

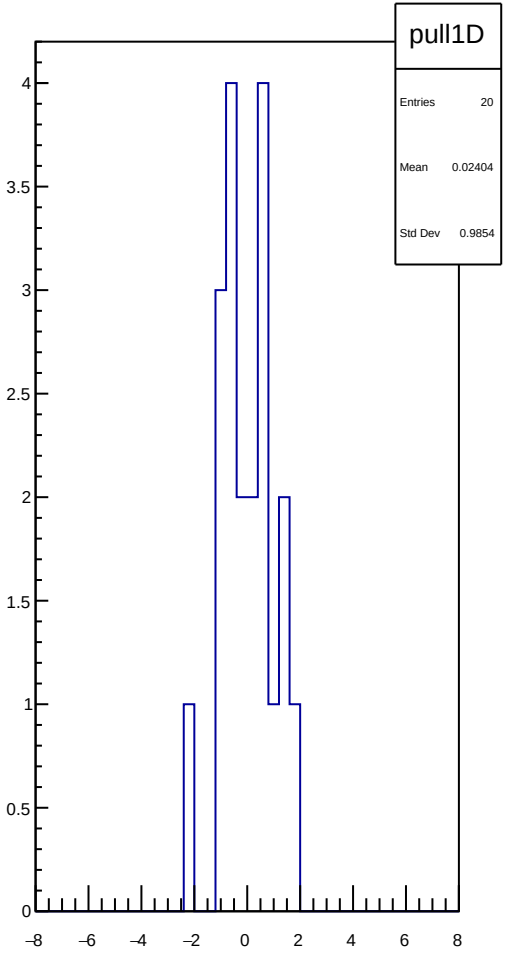

pull1D
Entries 20
Mean −0.009296
Std Dev 0.7794
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

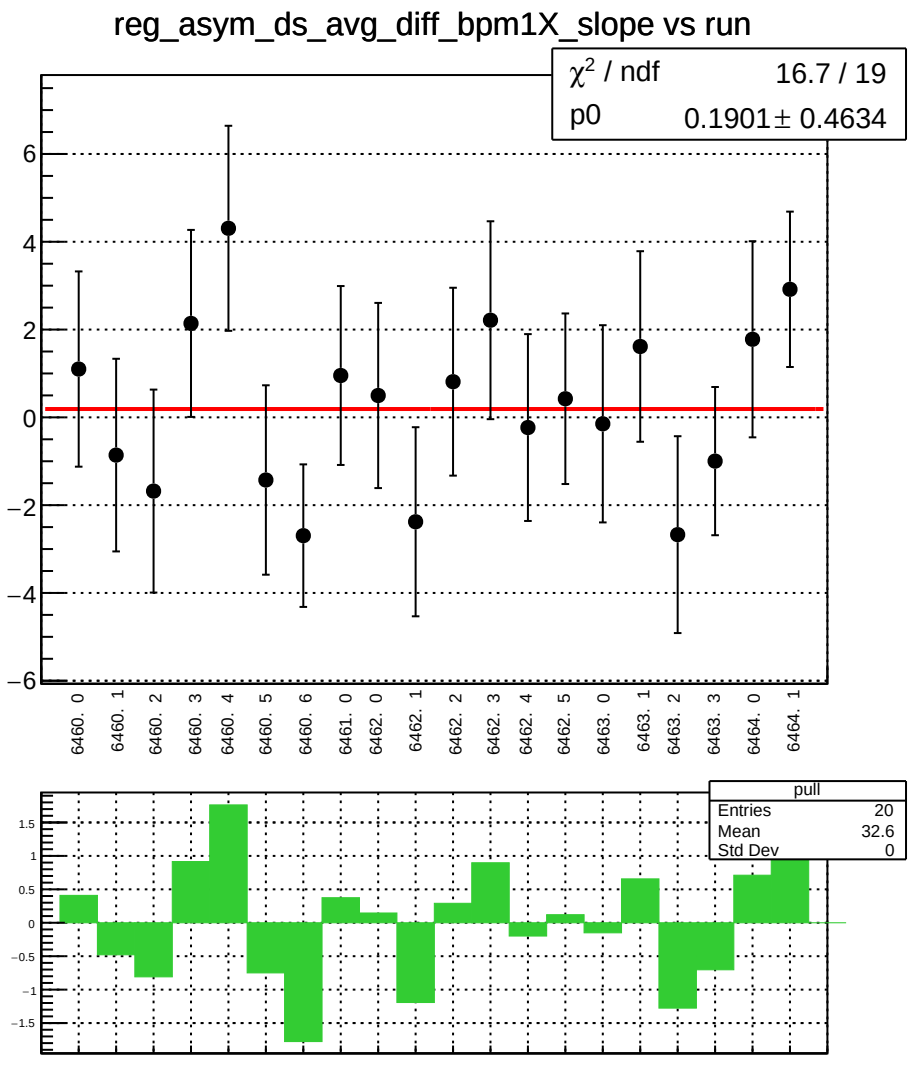

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.6 / 19
p0 −68.47 ± 1.759
−50
−55
−60
−65
−70
−75
−80
−85
−90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −54.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

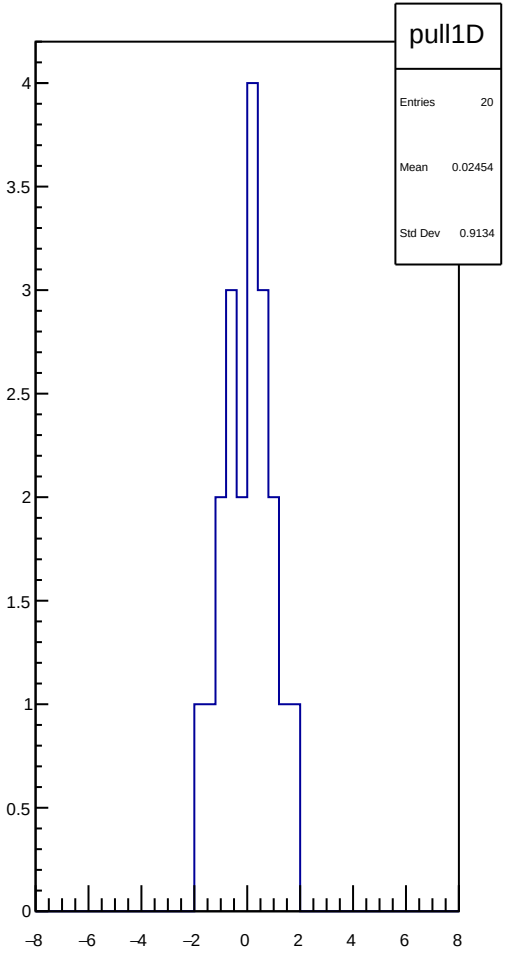

pull1D
Entries 20
Mean 0.02947
Std Dev 0.793
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

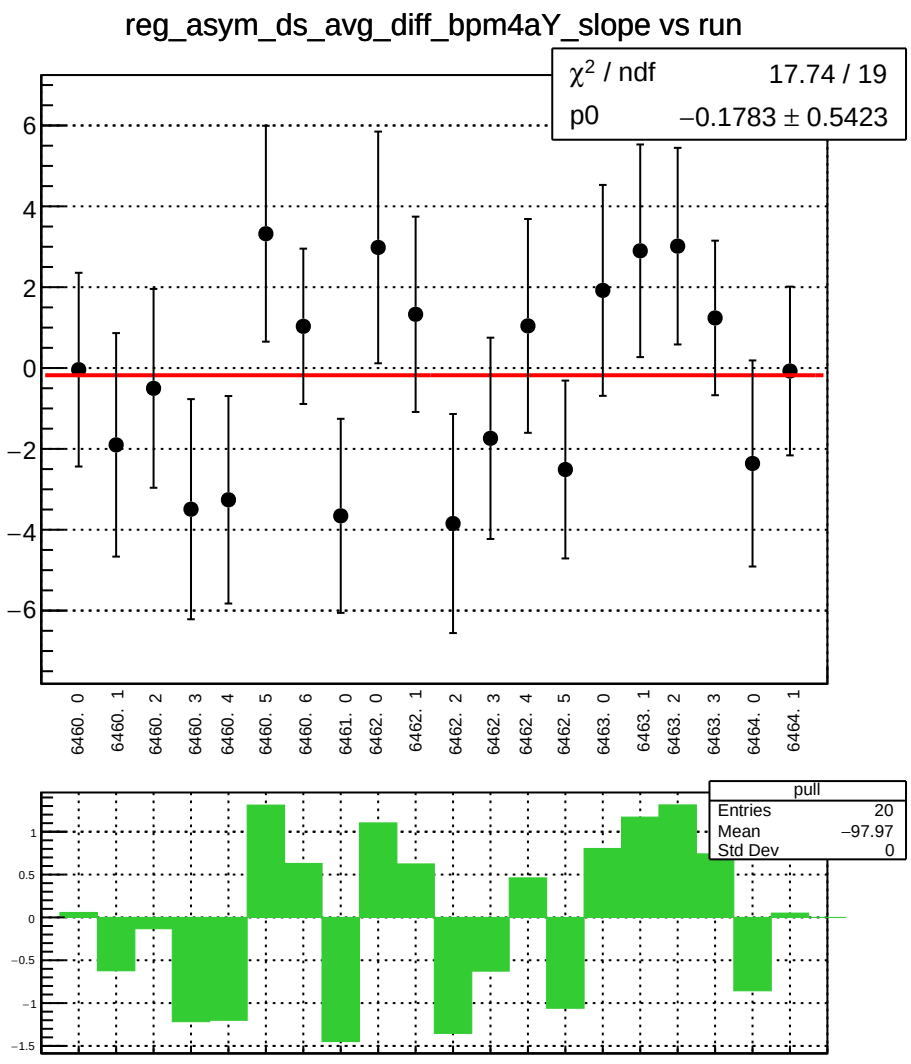

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.64 / 19
p0 0.1655 ± 2.097
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 14.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.007375
Std Dev 0.7628
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

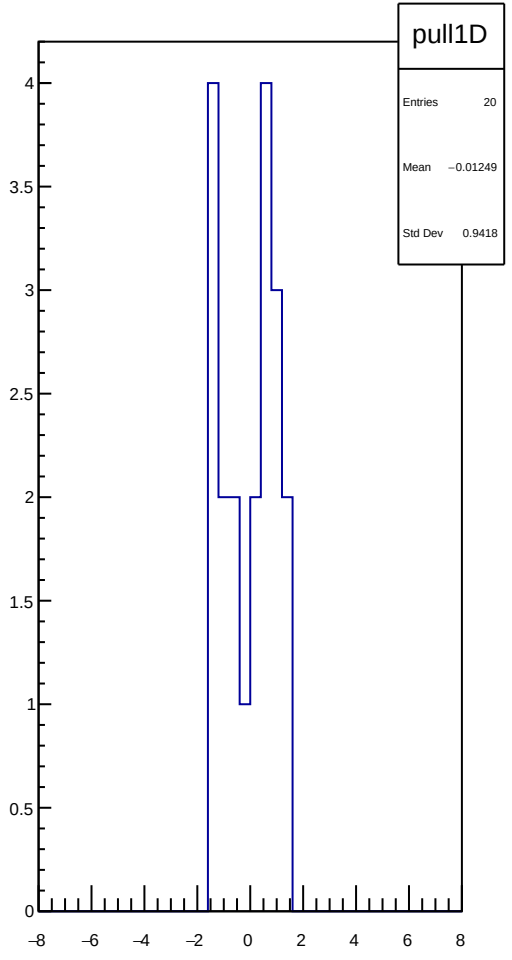

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 19.43 / 19
p0 0.4096 ± 0.08762
1.5
1
0.5
0
−0.5
−1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 17.39
Std Dev 5.72
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

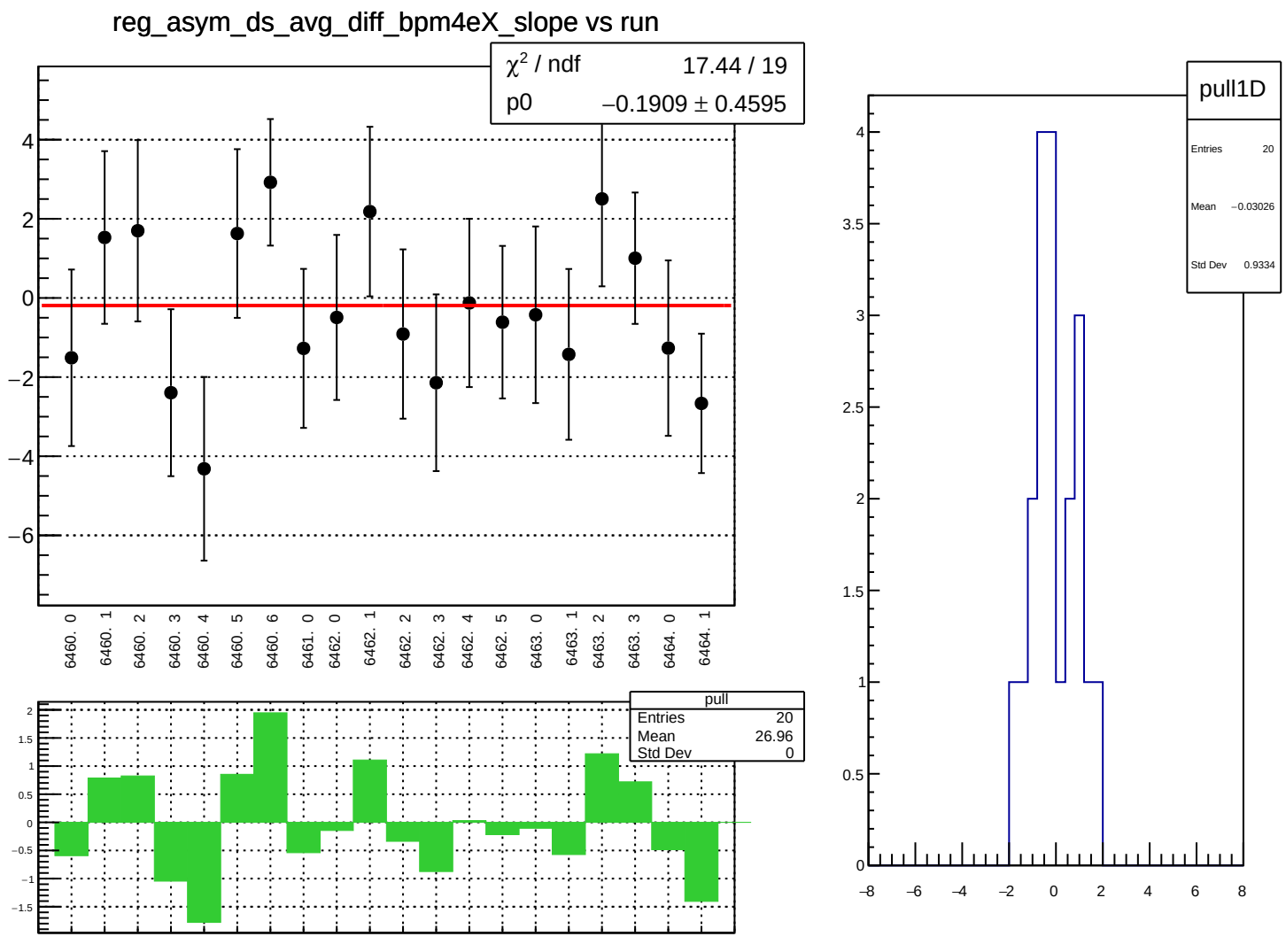

pull1D
Entries 20
Mean 0.02404
Std Dev 0.9854
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

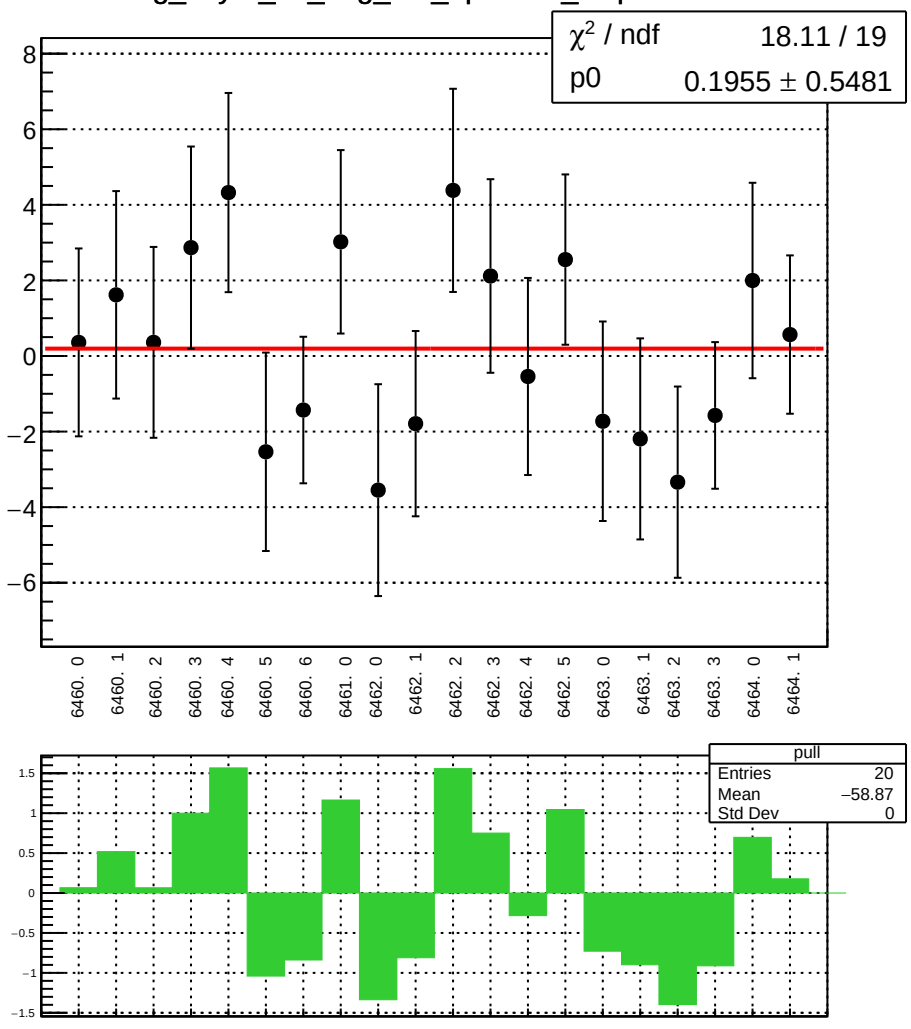

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 16.7 / 19
p0 0.1901± 0.4634
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.6
Std Dev 0

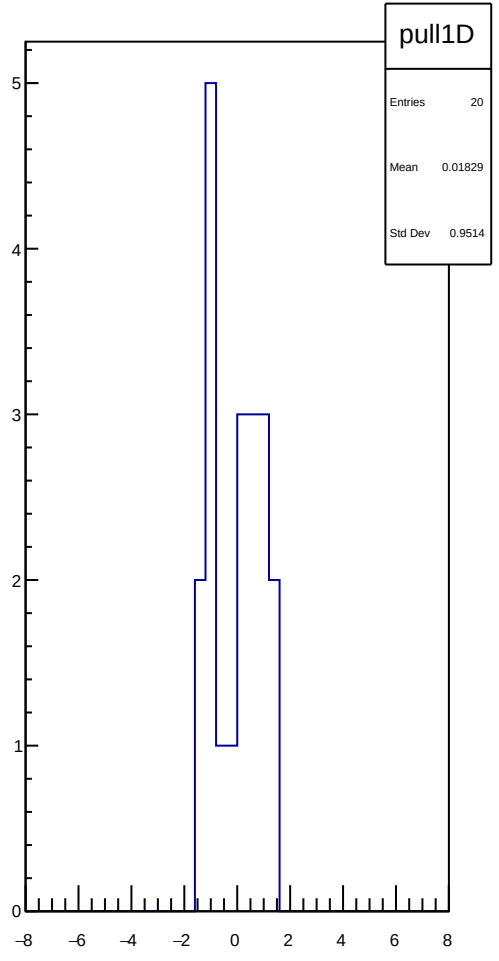

pull1D
Entries 20
Mean 0.02454
Std Dev 0.9134

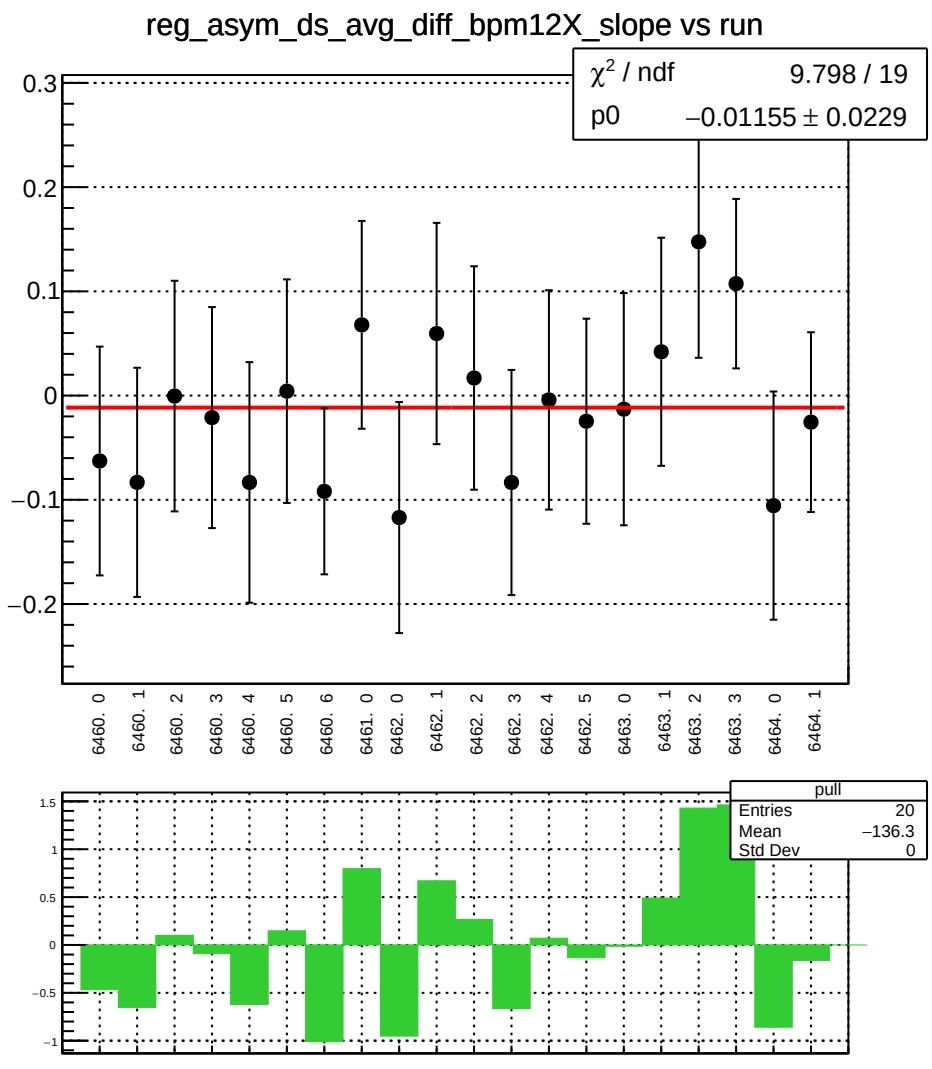

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.74 / 19
p0 −0.1783 ± 0.5423
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −97.97
Std Dev 0

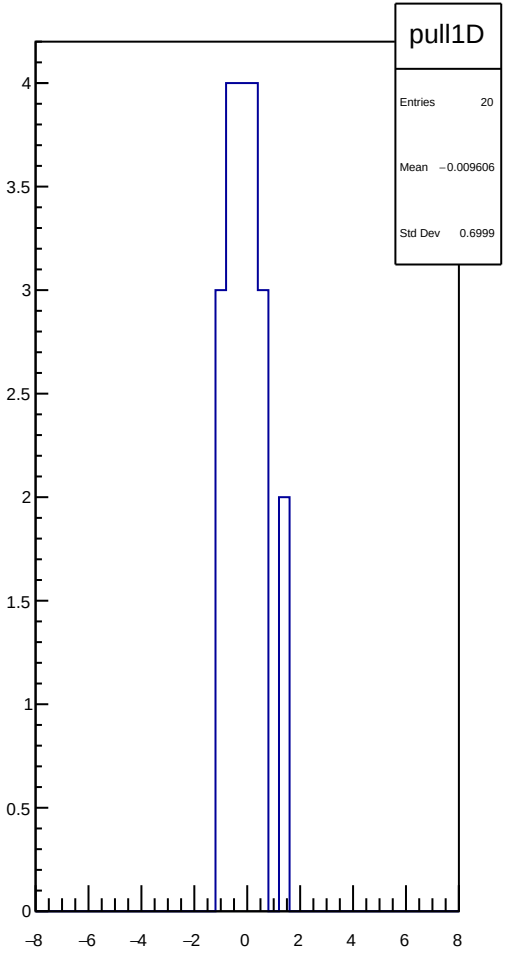

pull1D
Entries 20
Mean −0.01249
Std Dev 0.9418

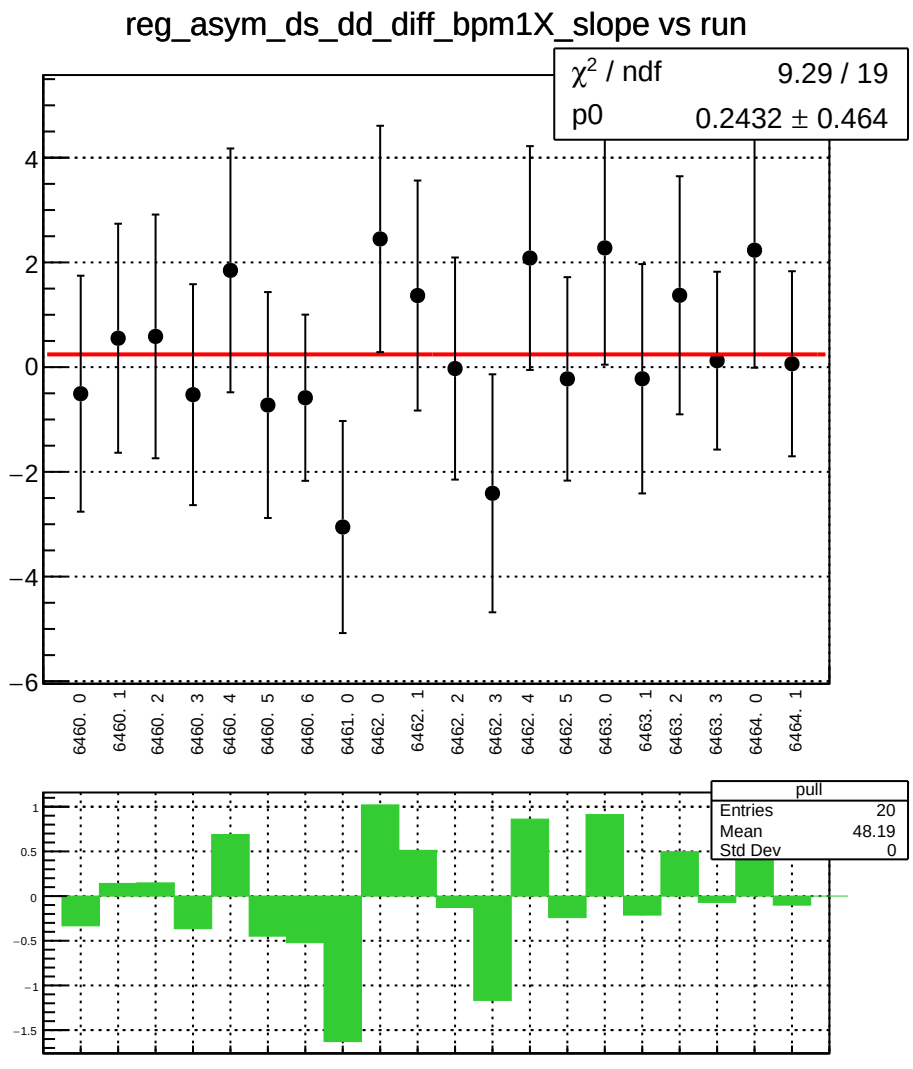

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.44 / 19
p0 −0.1909 ± 0.4595
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.96
Std Dev 0
pull1D
Entries 20
Mean −0.03026
Std Dev 0.9334

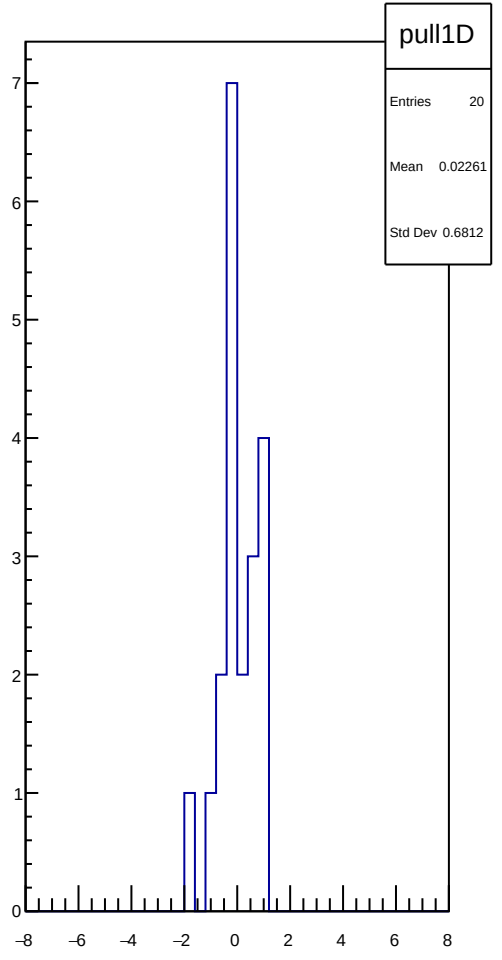

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.11 / 19
p0 0.1955 ± 0.5481
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

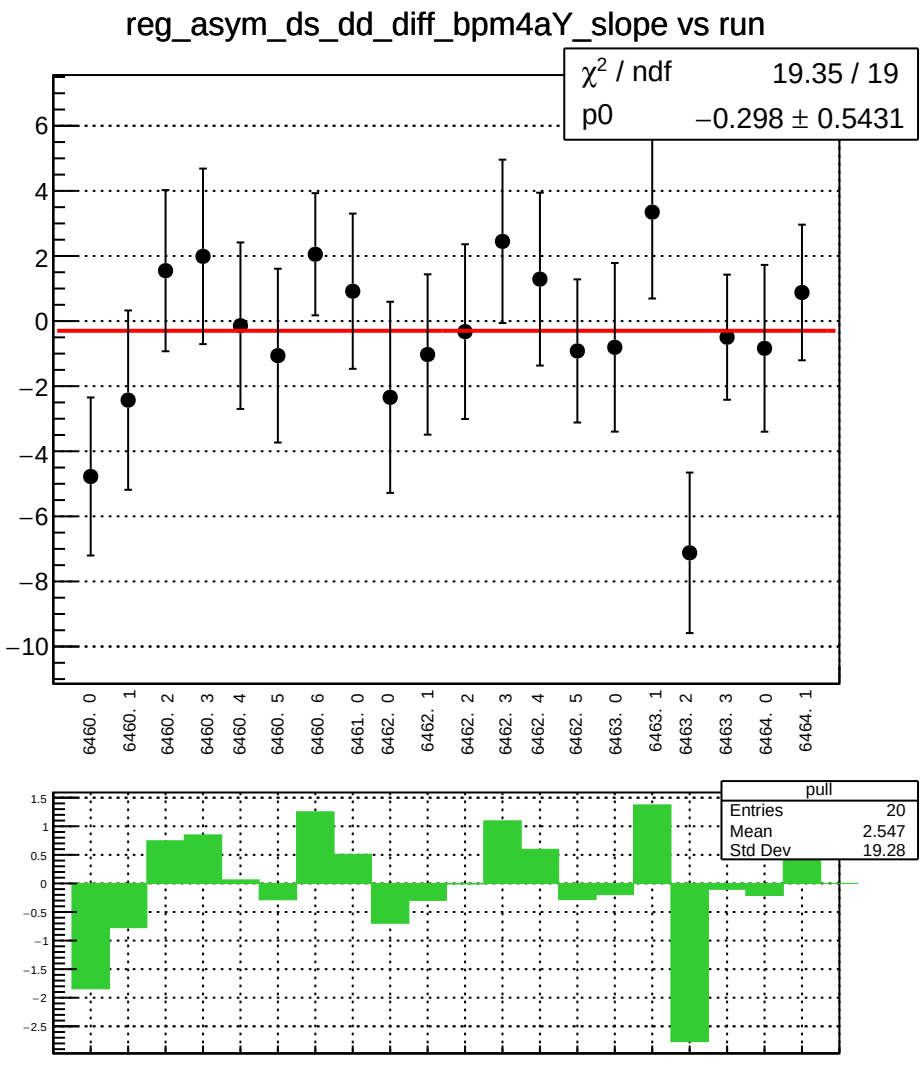

pull1D
Entries 20
Mean 0.01829
Std Dev 0.9514
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

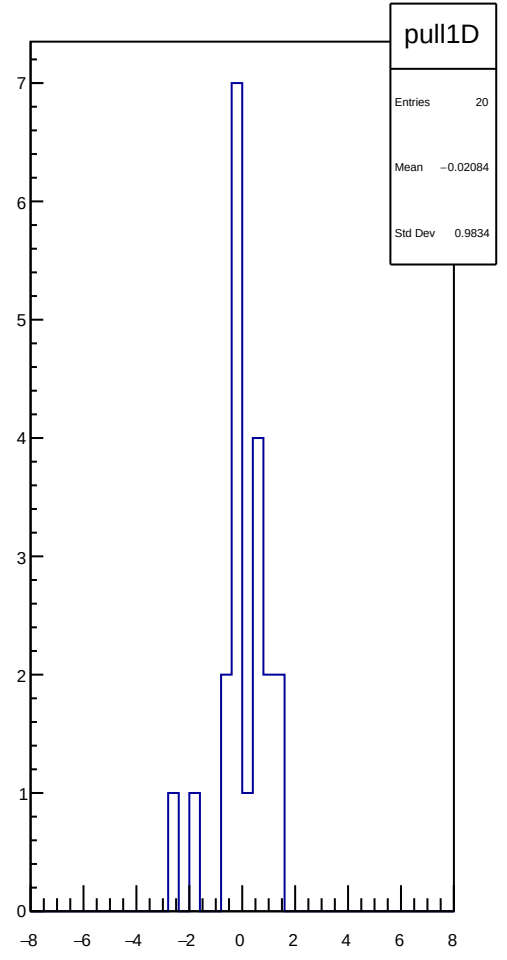

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 9.798 / 19
p0 −0.01155 ± 0.0229
0.3
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −136.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

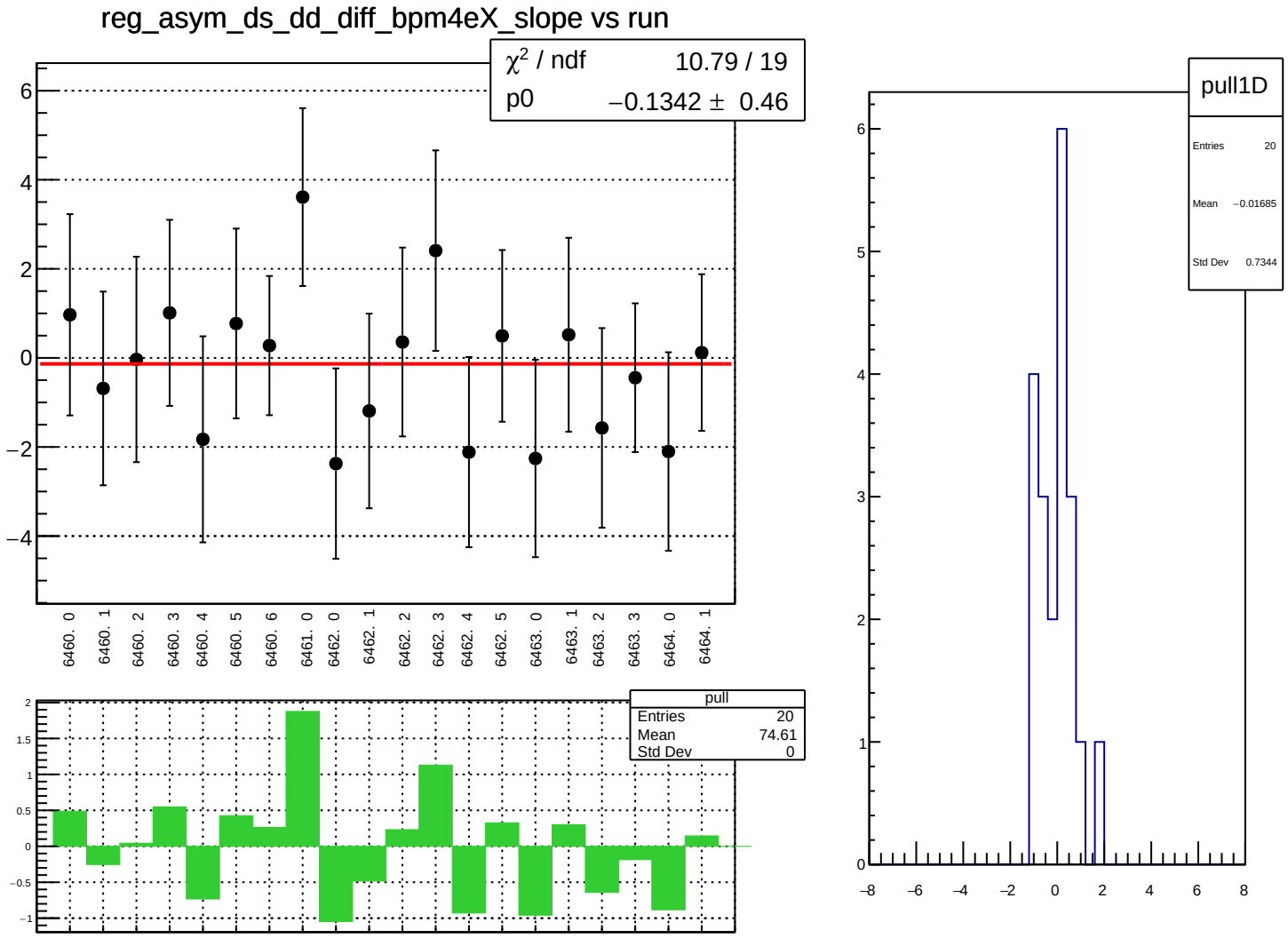

pull1D
Entries 20
Mean −0.009606
Std Dev 0.6999
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

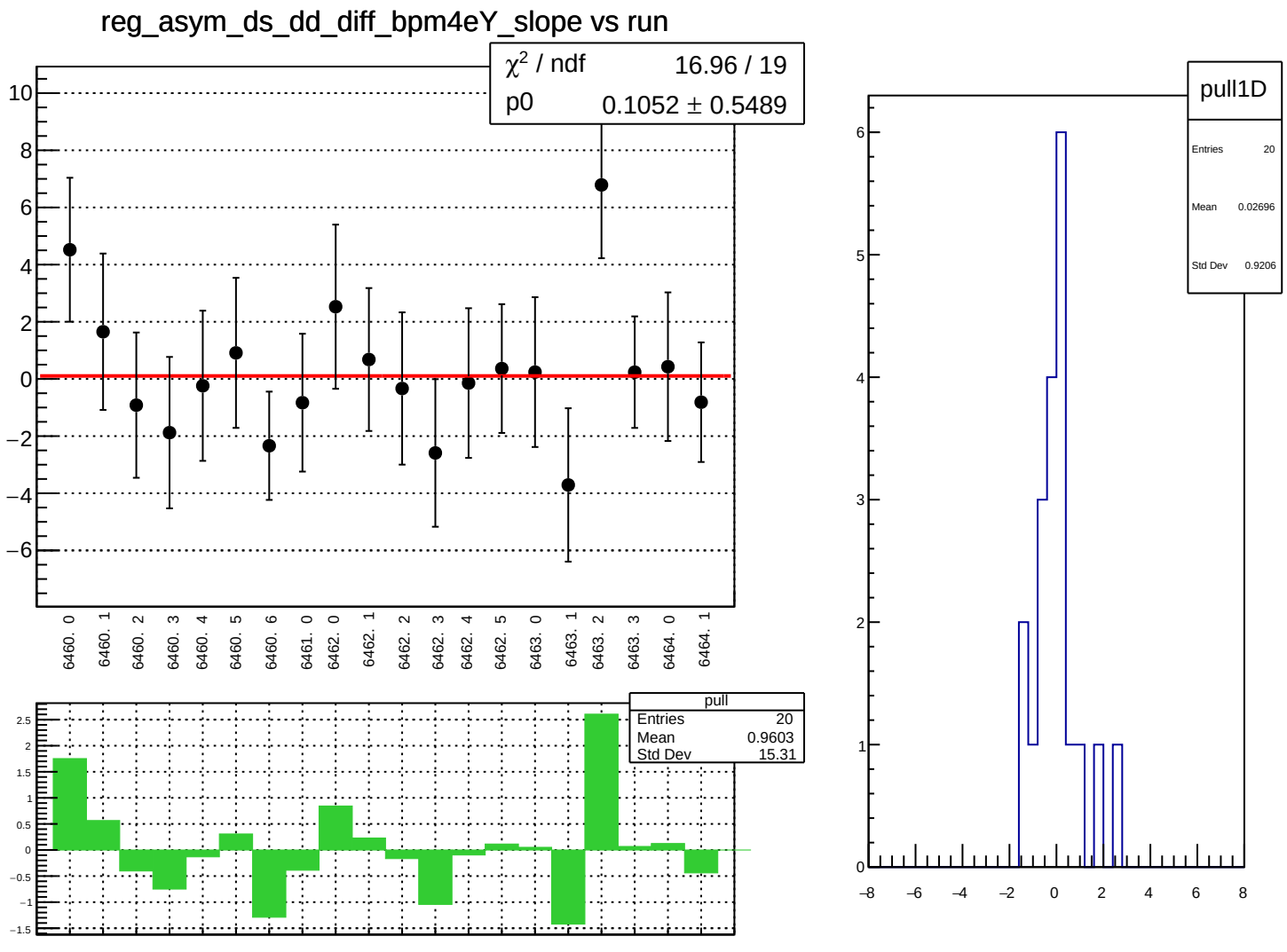

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 9.29 / 19
p0 0.2432 ± 0.464
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 48.19
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

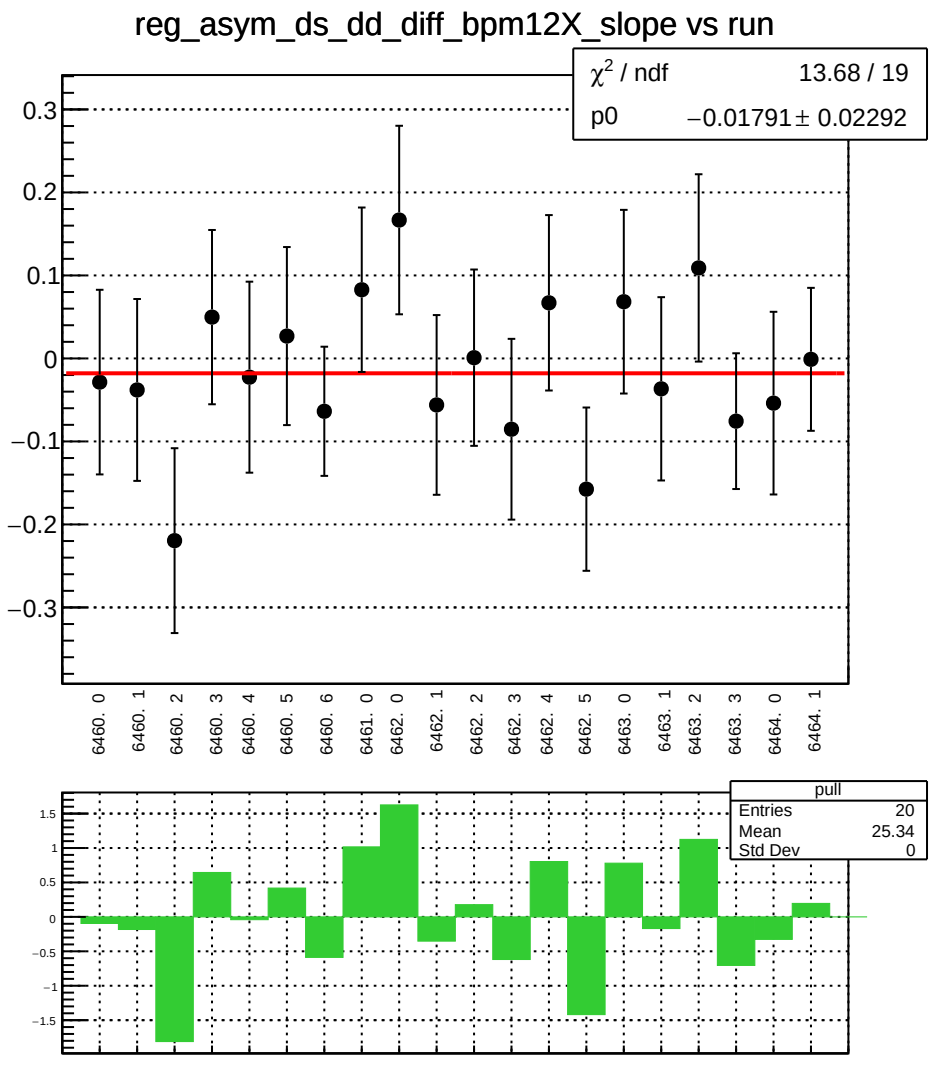

pull1D
Entries 20
Mean 0.02261
Std Dev 0.6812
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

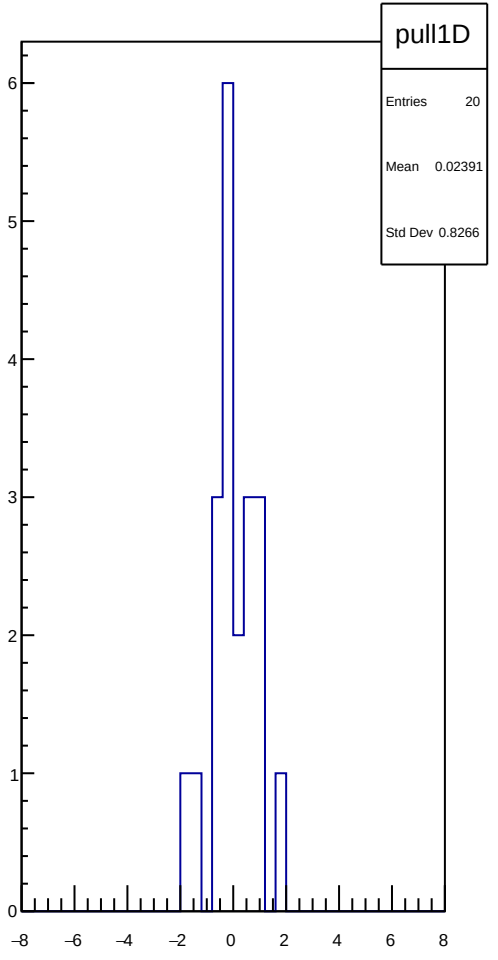

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.35 / 19
p0 −0.298 ± 0.5431
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2.547
Std Dev 19.28

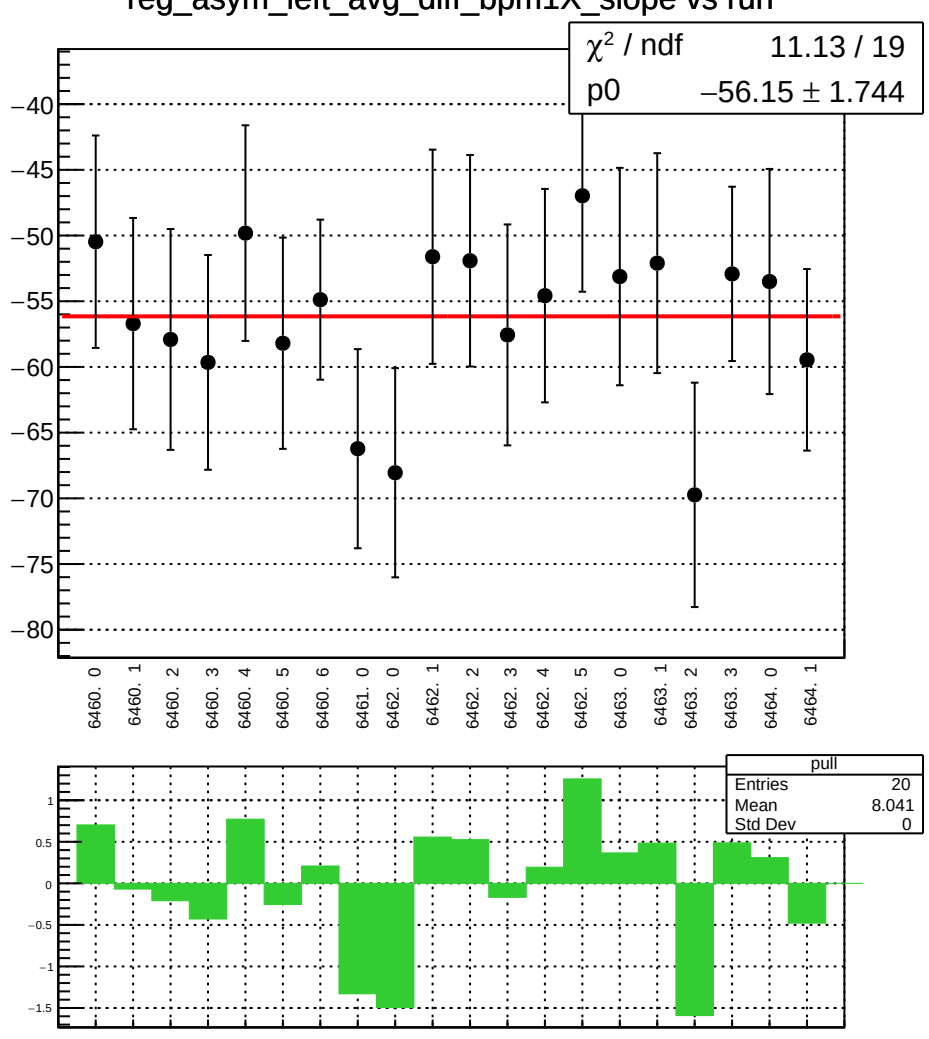

pull1D
Entries 20
Mean −0.02084
Std Dev 0.9834

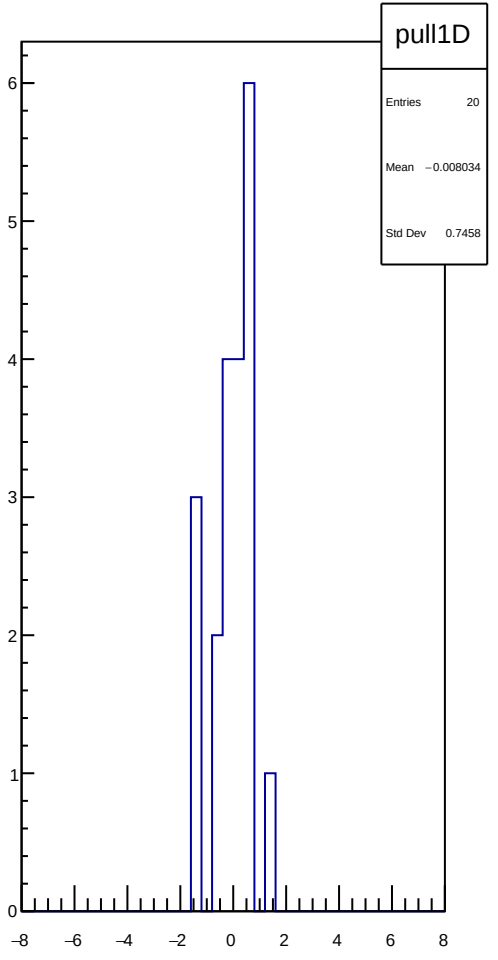

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.79 / 19
p0 −0.1342 ± 0.46
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 74.61
Std Dev 0
pull1D
Entries 20
Mean −0.01685
Std Dev 0.7344

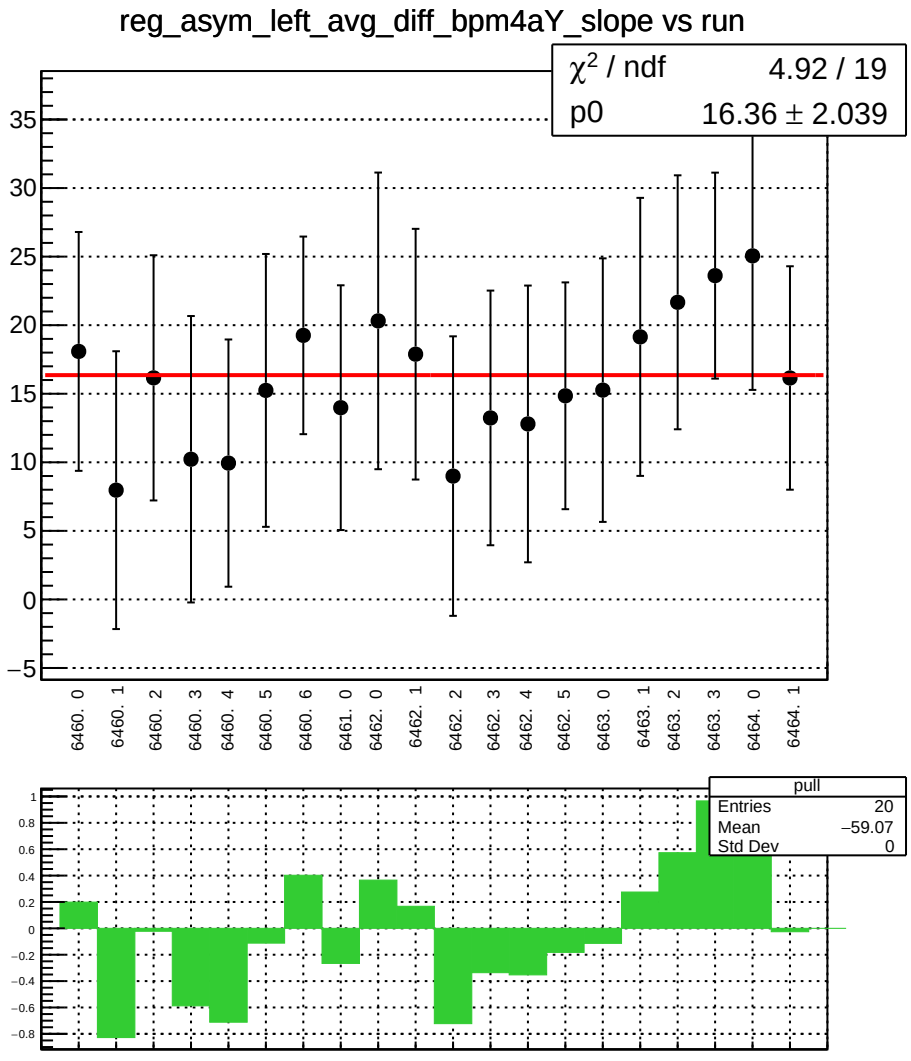

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.96 / 19
p0 0.1052 ± 0.5489
10
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 0.9603
Std Dev 15.31
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02696
Std Dev 0.9206
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

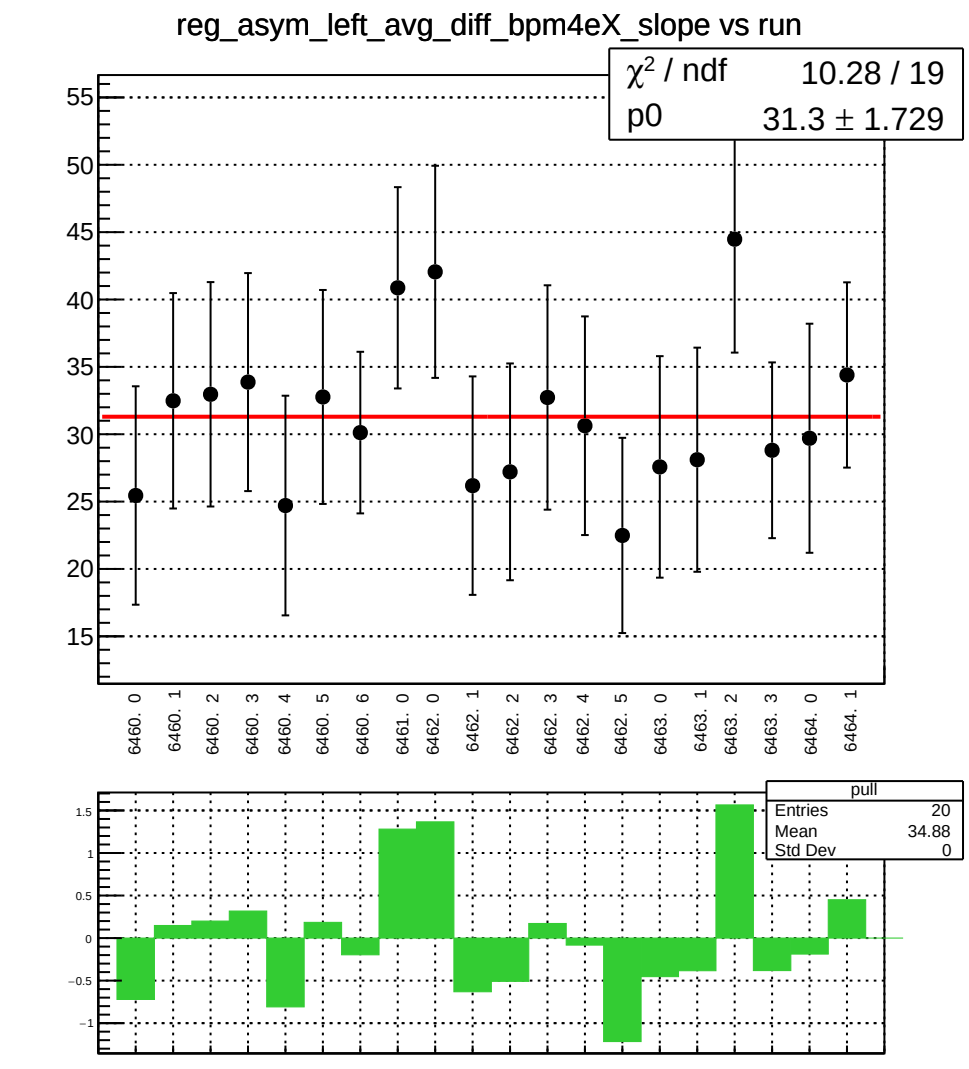

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 13.68 / 19
p0 −0.01791 ± 0.02292
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 25.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

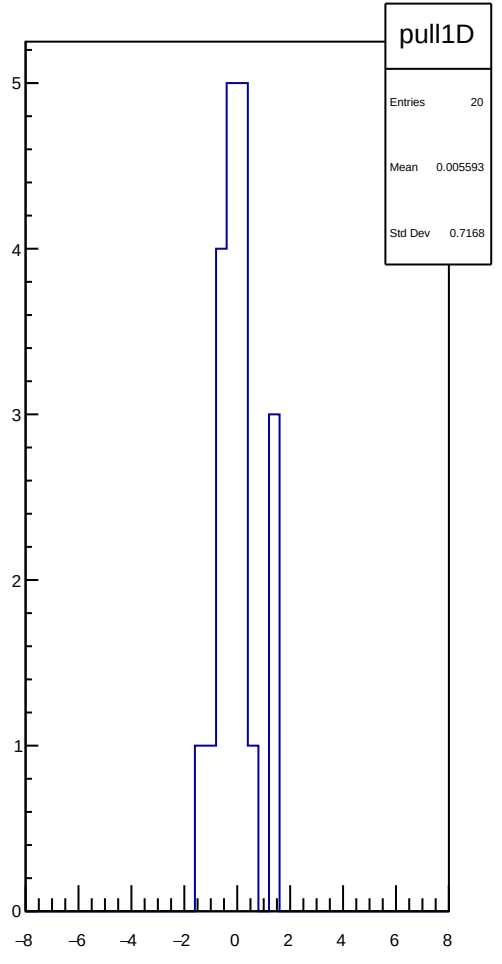

pull1D
Entries 20
Mean 0.02391
Std Dev 0.8266
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

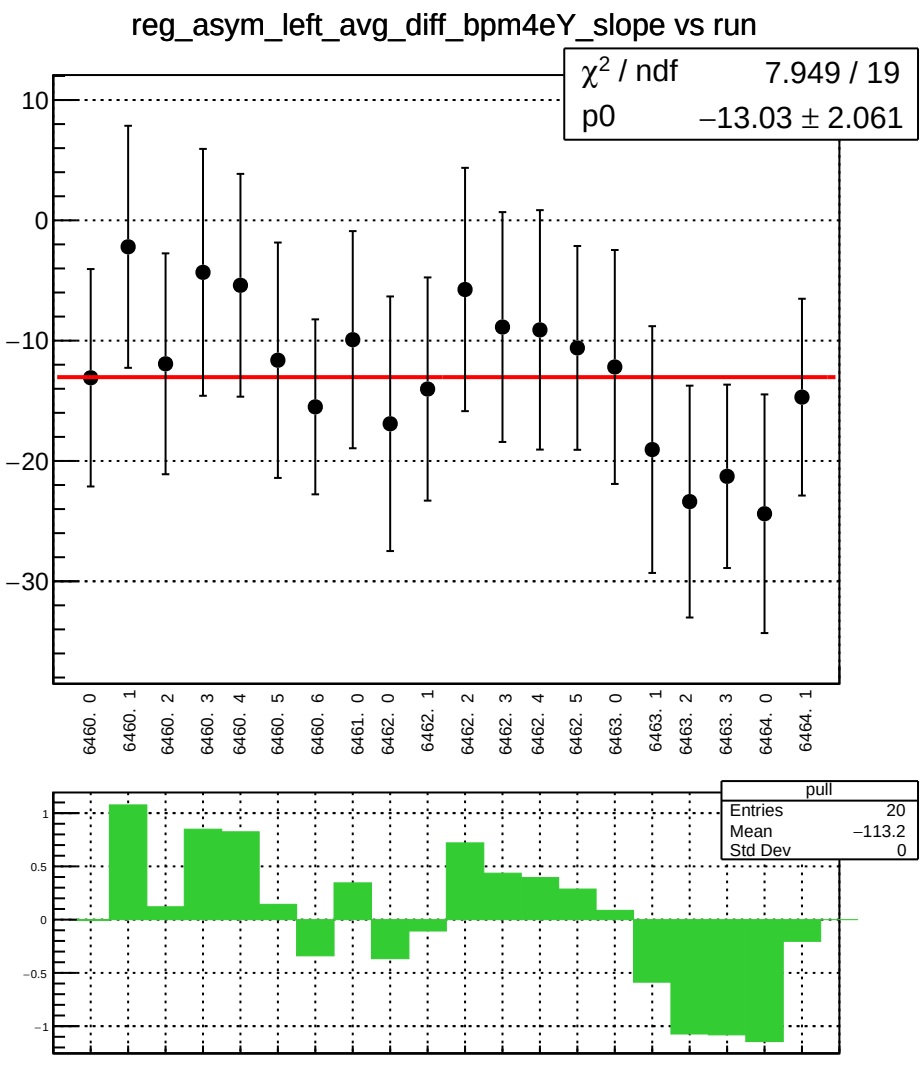

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 11.13 / 19
p0 −56.15 ± 1.744
−40
−45
−50
−55
−60
−65
−70
−75
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 8.041
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

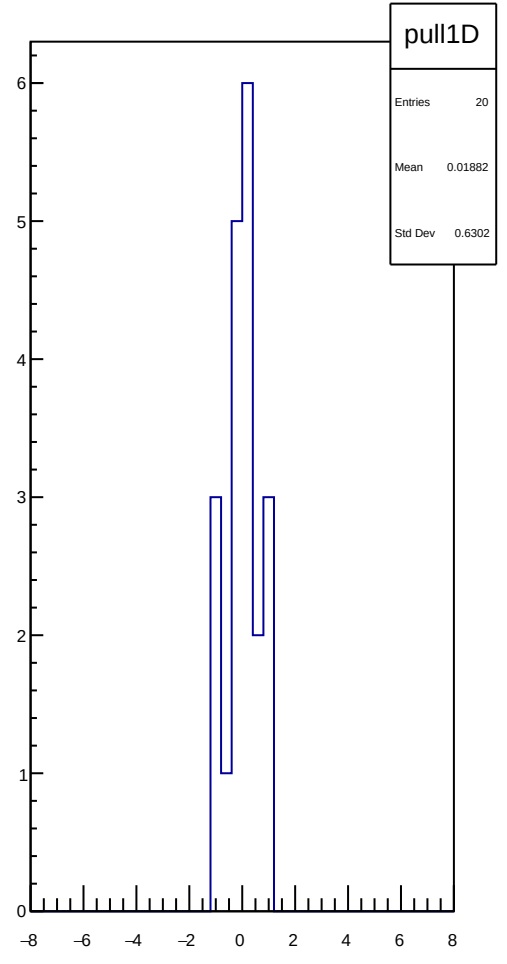

pull1D
Entries 20
Mean −0.008034
Std Dev 0.7458
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

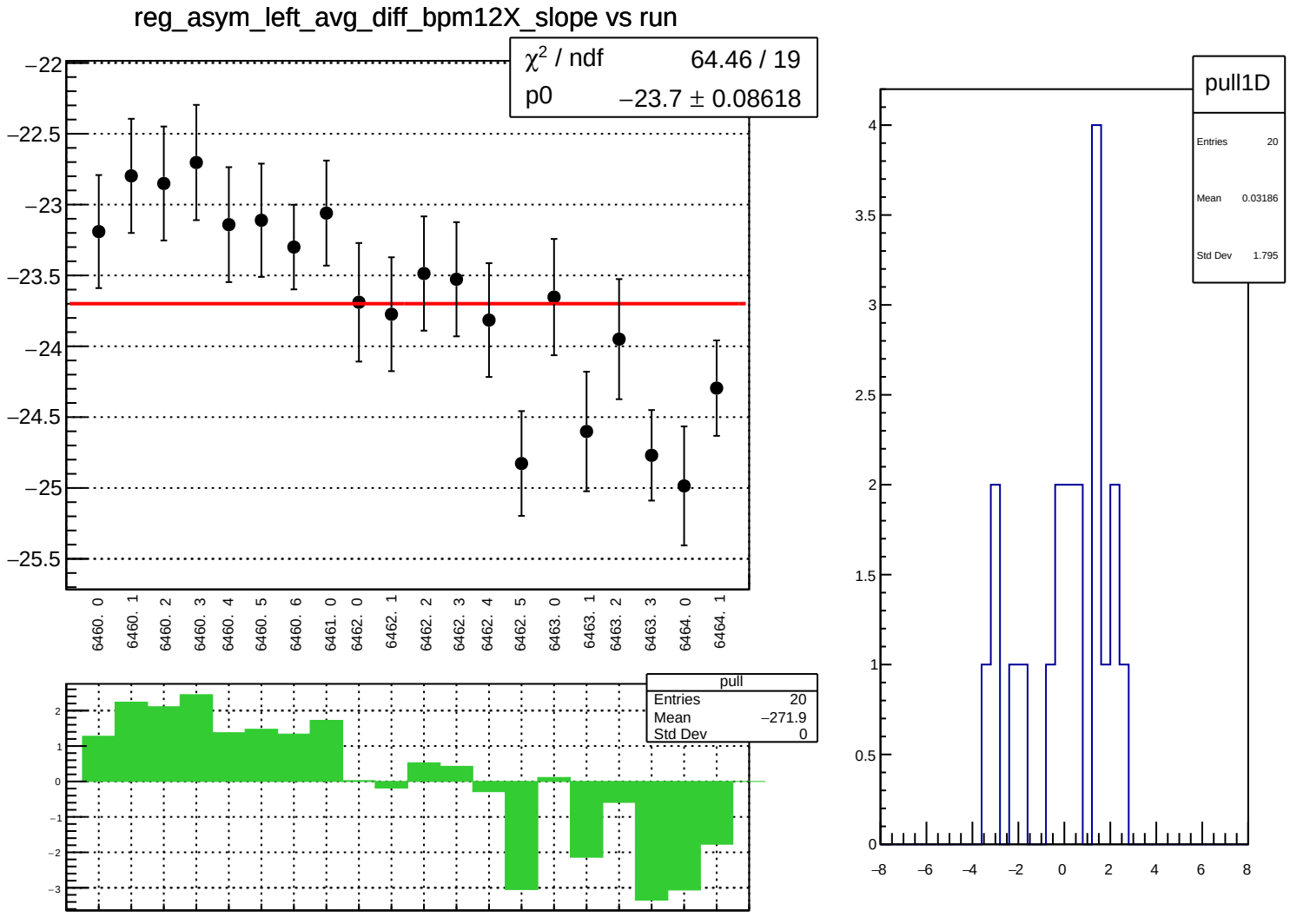

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.92 / 19
p0 16.36 ± 2.039
35
30
25
20
15
10
5
0
−5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −59.07
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.02106
Std Dev 0.4955
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

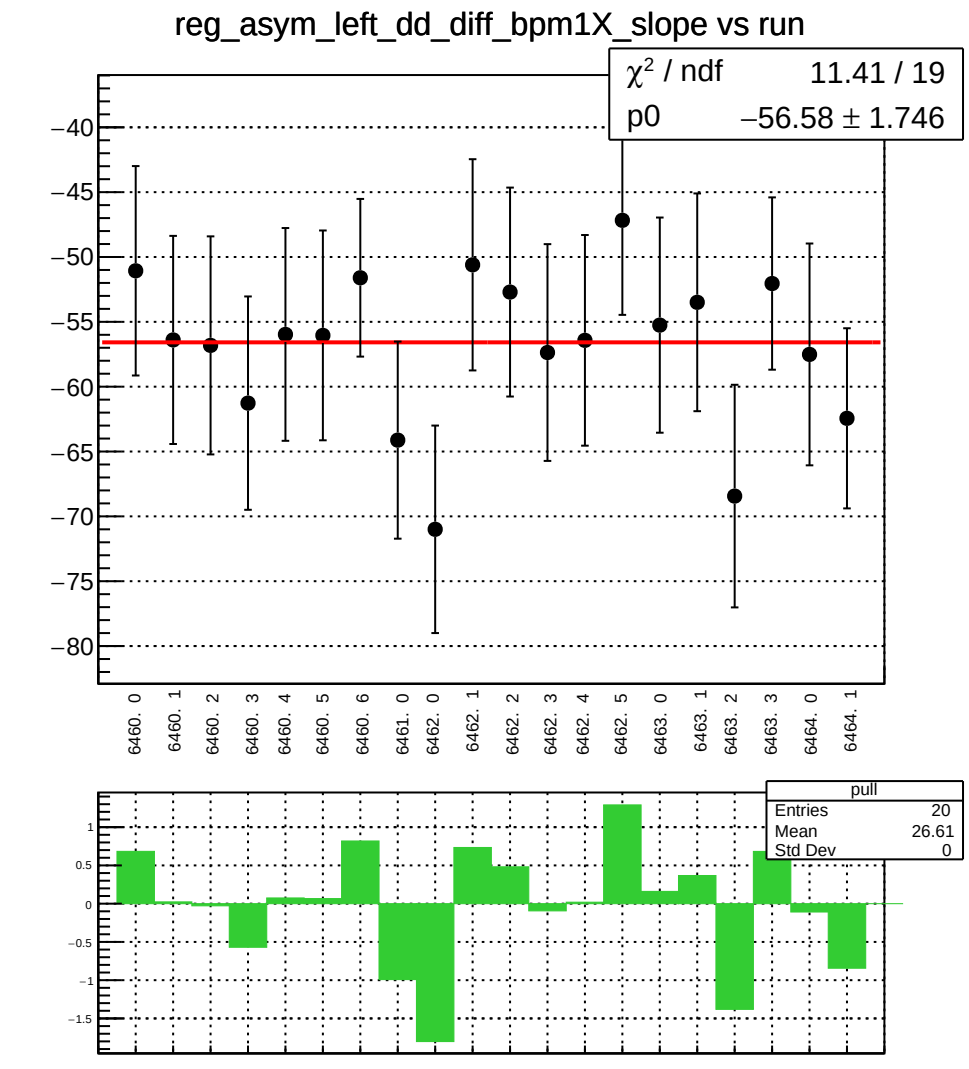

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.28 / 19
p0 31.3 ± 1.729
55
50
45
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 34.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1

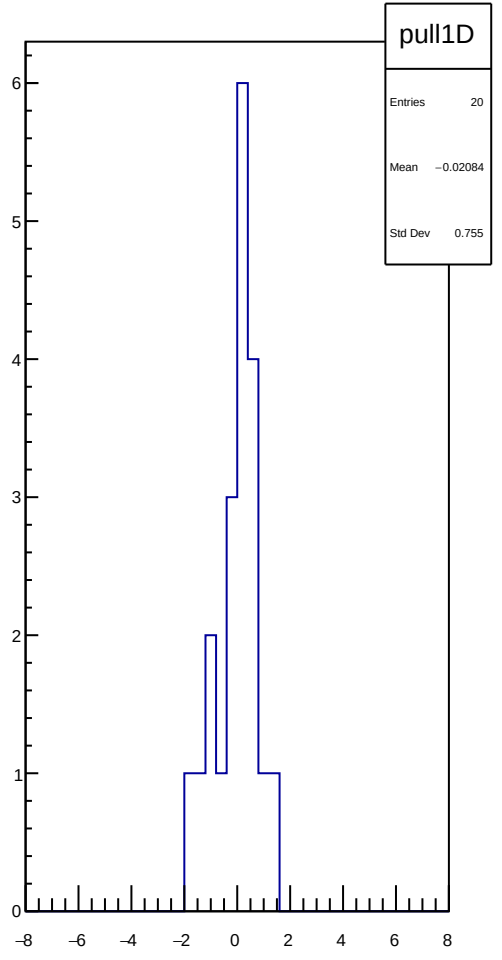

pull1D
Entries 20
Mean 0.005593
Std Dev 0.7168
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

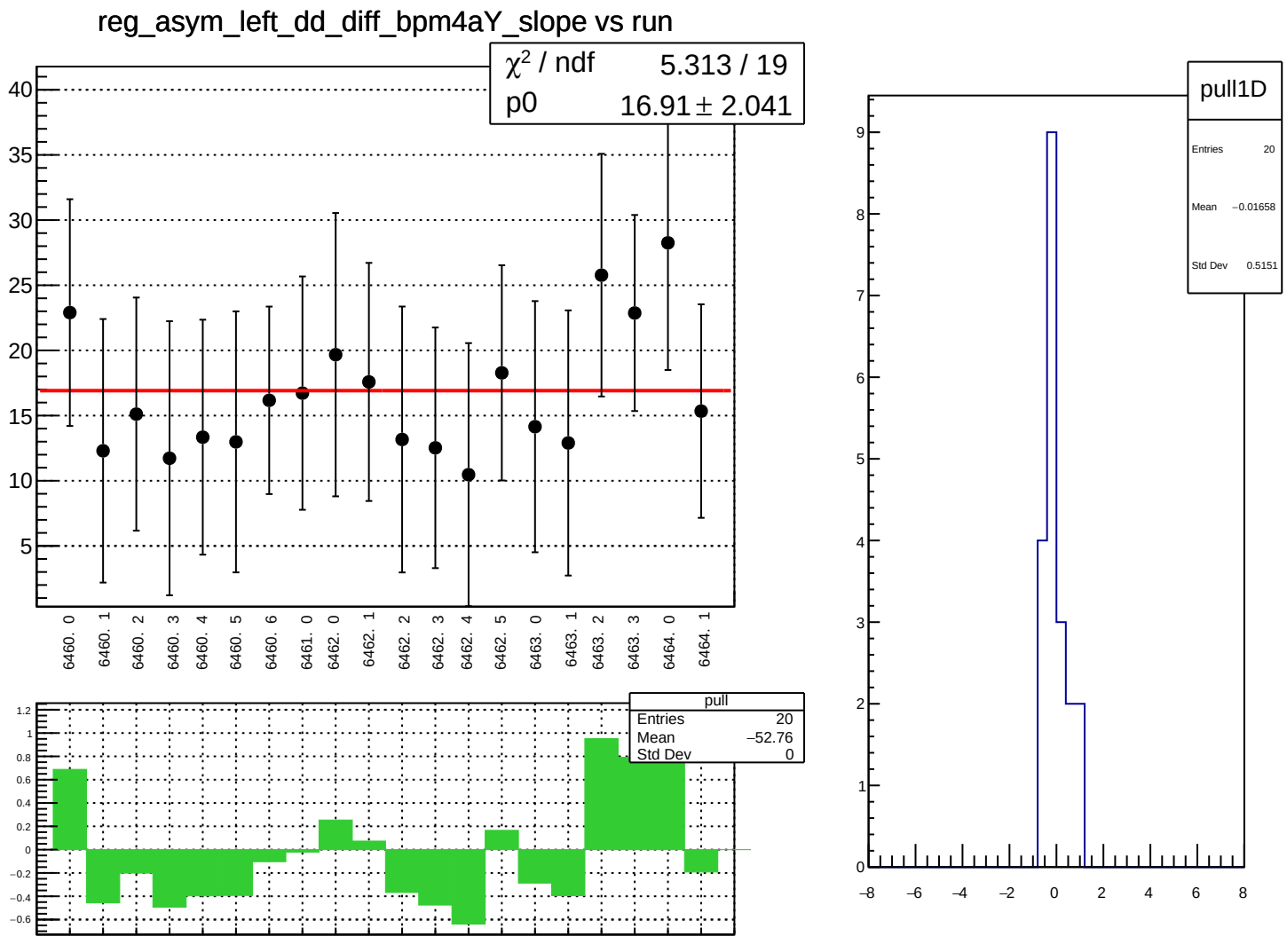

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.949 / 19
p0 −13.03 ± 2.061
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −113.2
Std Dev 0
1
0.5
0
−0.5
−1

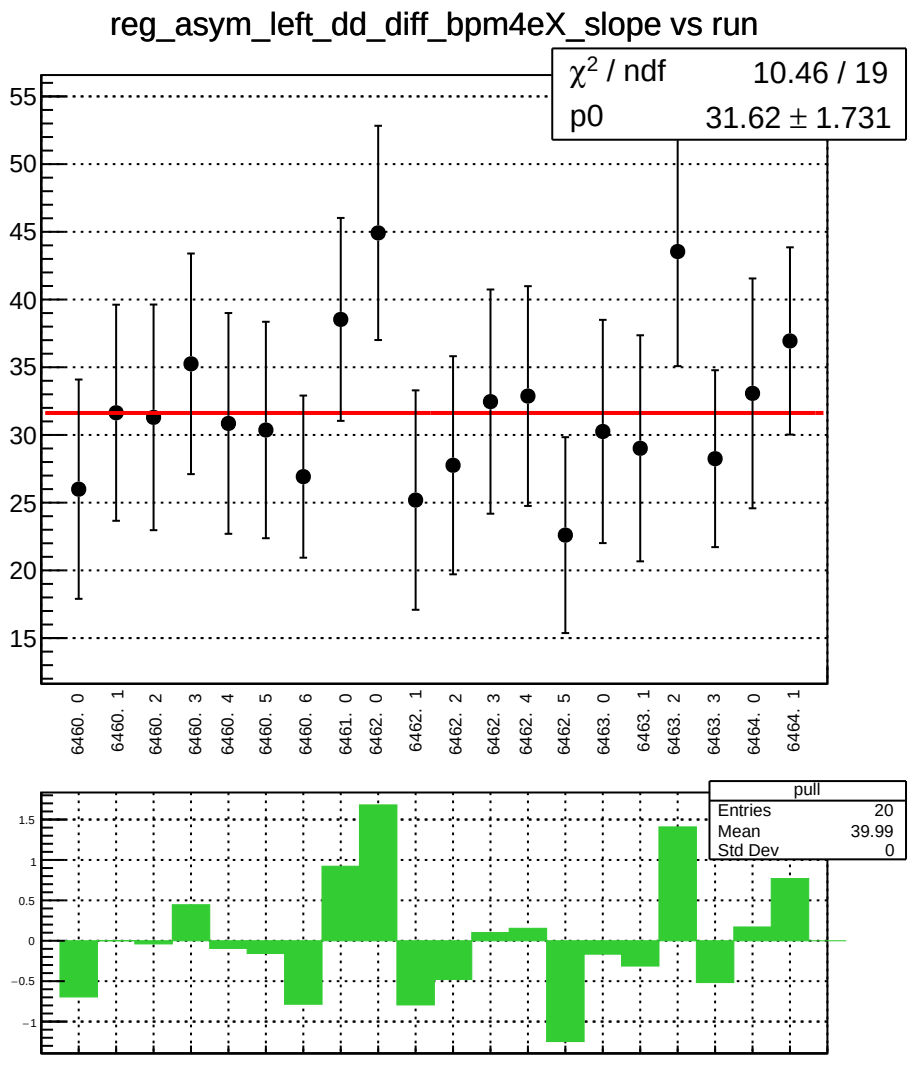

pull1D
Entries 20
Mean 0.01882
Std Dev 0.6302
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

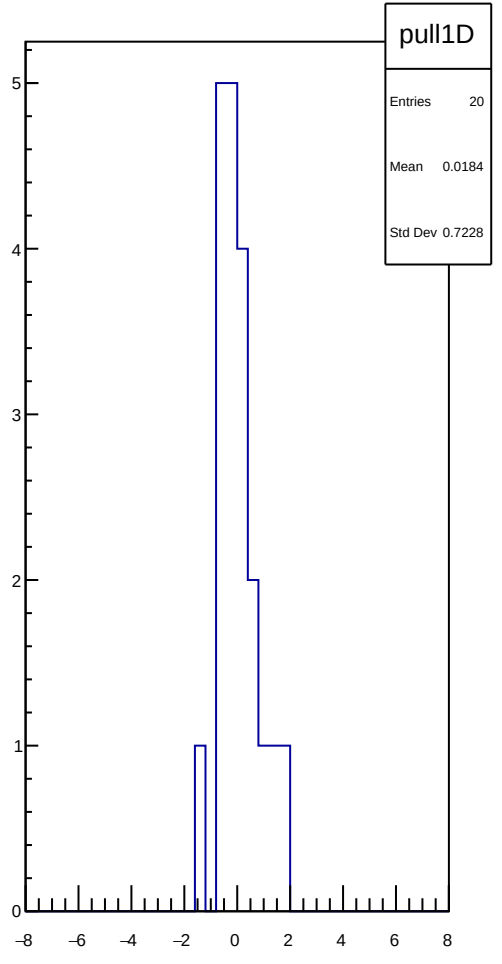

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 64.46 / 19
p0 −23.7 ± 0.08618
−22
−22.5
−23
−23.5
−24
−24.5
−25
−25.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −271.9
Std Dev 0
pull1D
Entries 20
Mean 0.03186
Std Dev 1.795

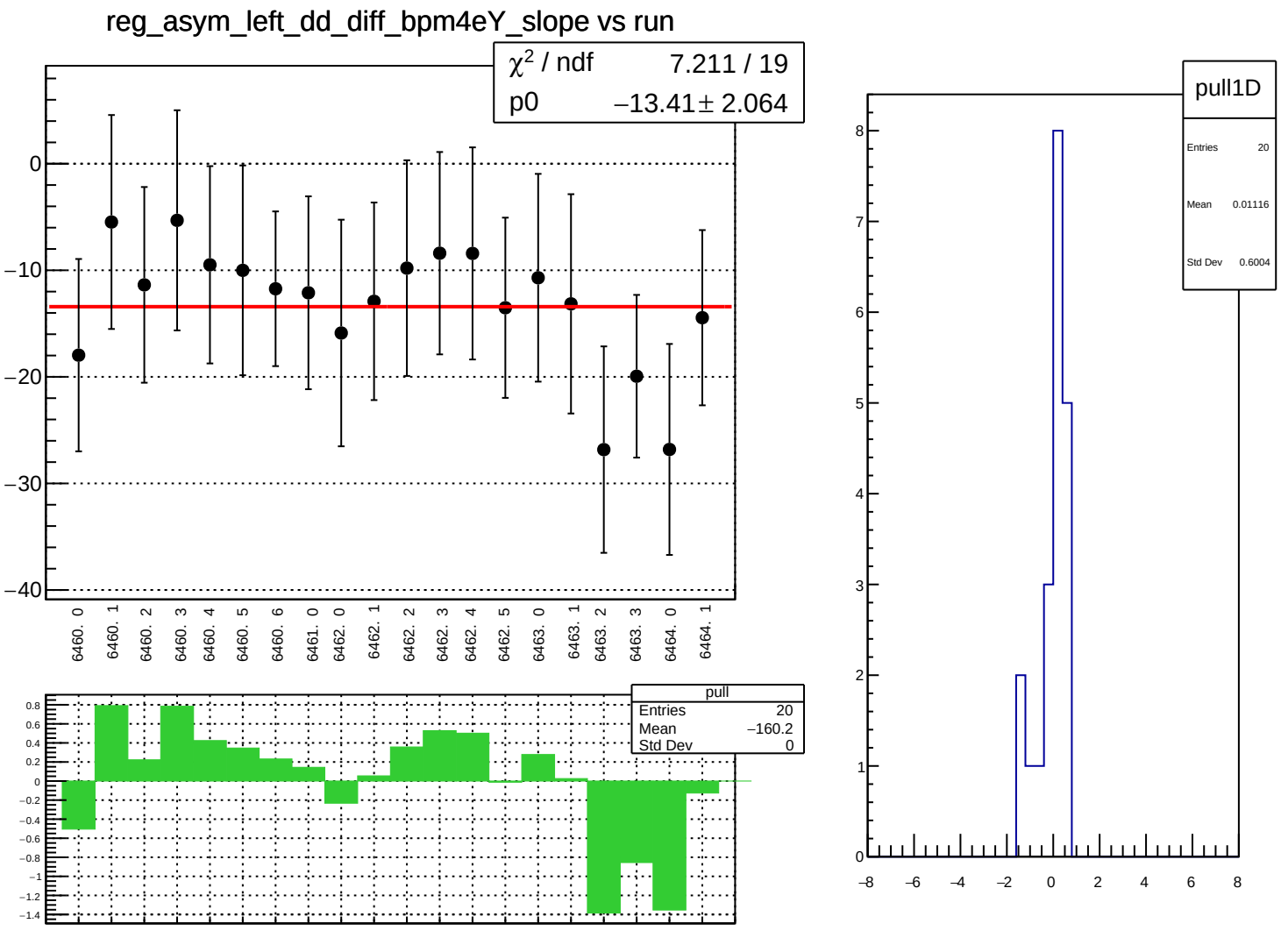

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 11.41 / 19
p0 −56.58 ± 1.746
−40
−45
−50
−55
−60
−65
−70
−75
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.61
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

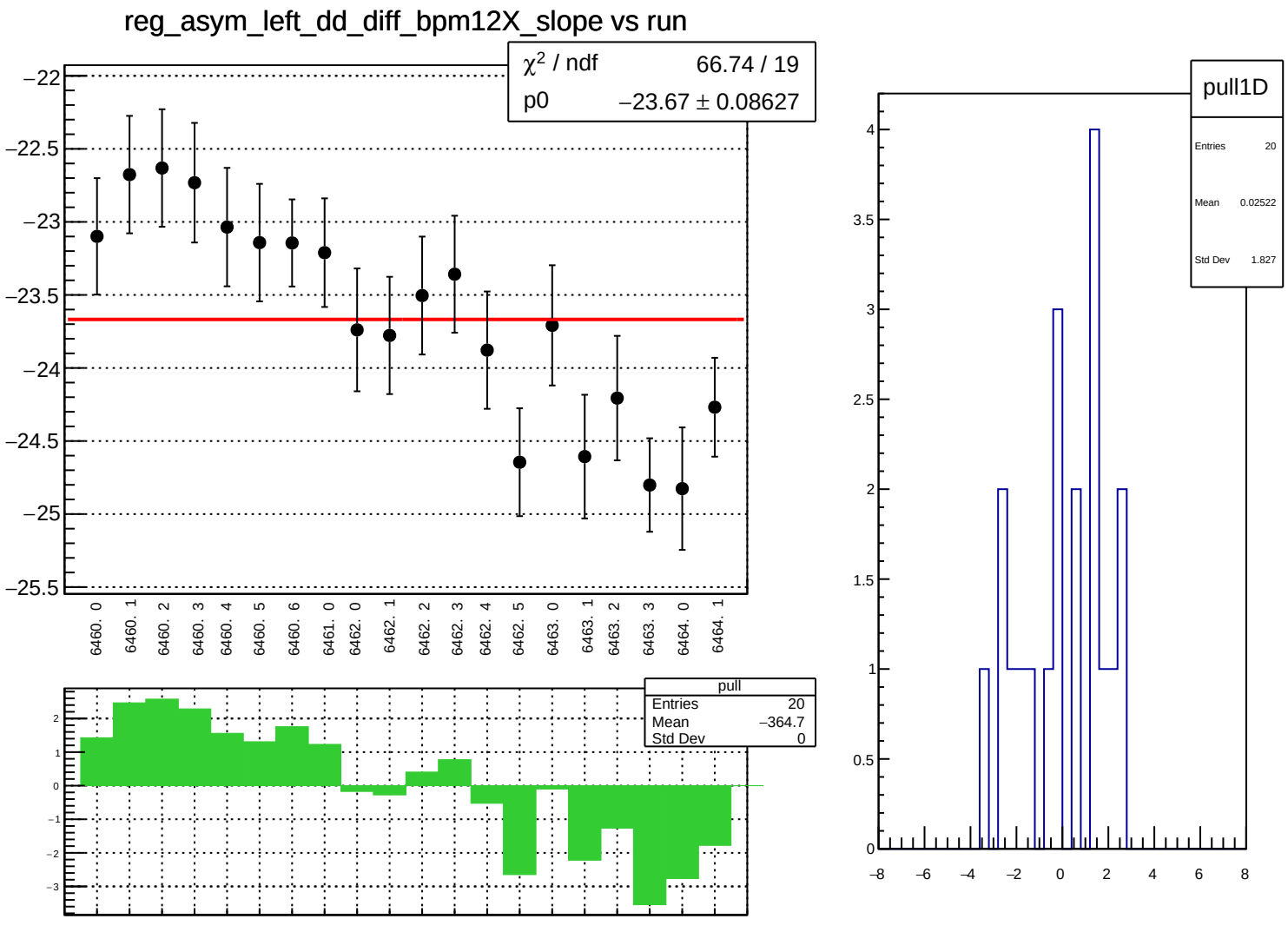

pull1D
Entries 20
Mean −0.02084
Std Dev 0.755
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

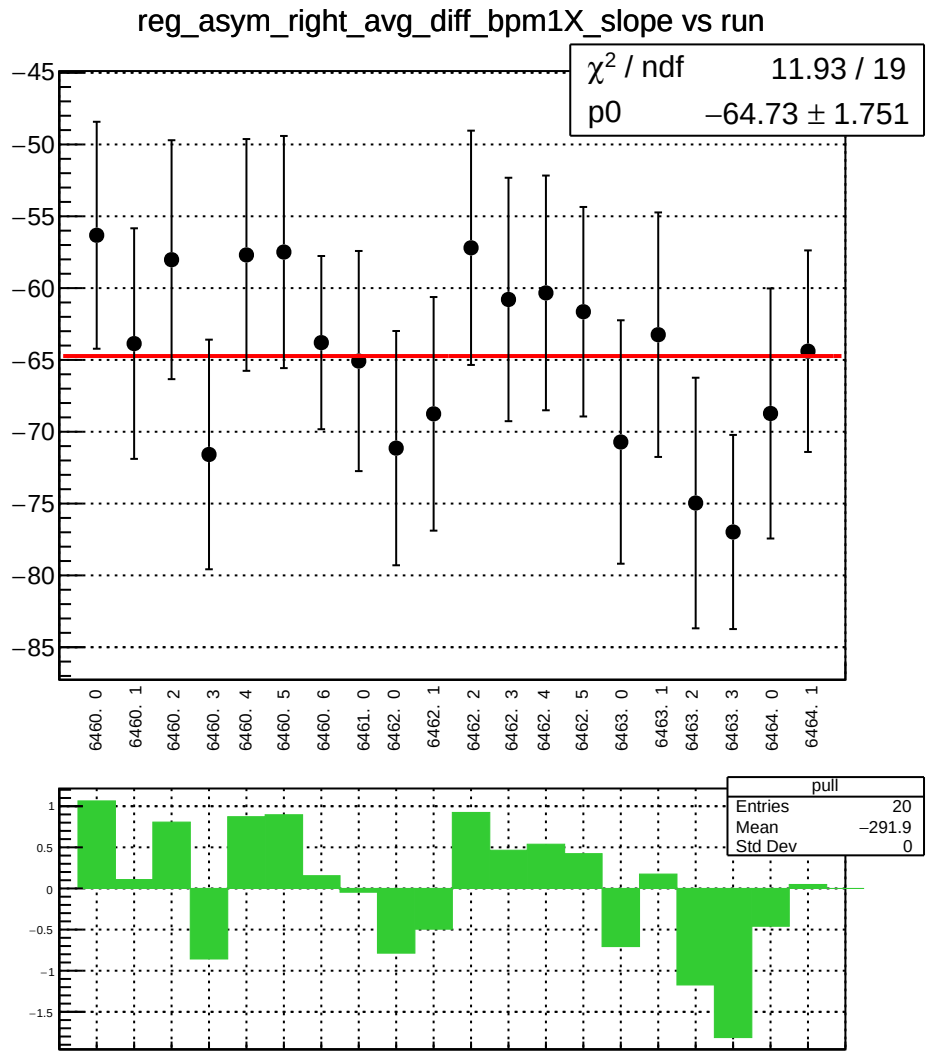

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.313 / 19
p0 16.91 ± 2.041
40
35
30
25
20
15
10
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.76
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.01658
Std Dev 0.5151
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

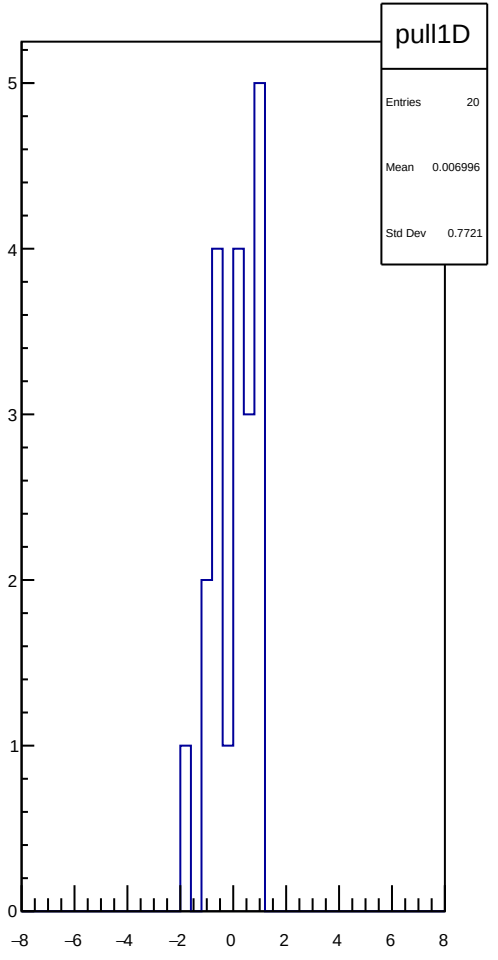

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.46 / 19
p0 31.62 ± 1.731
55
50
45
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1

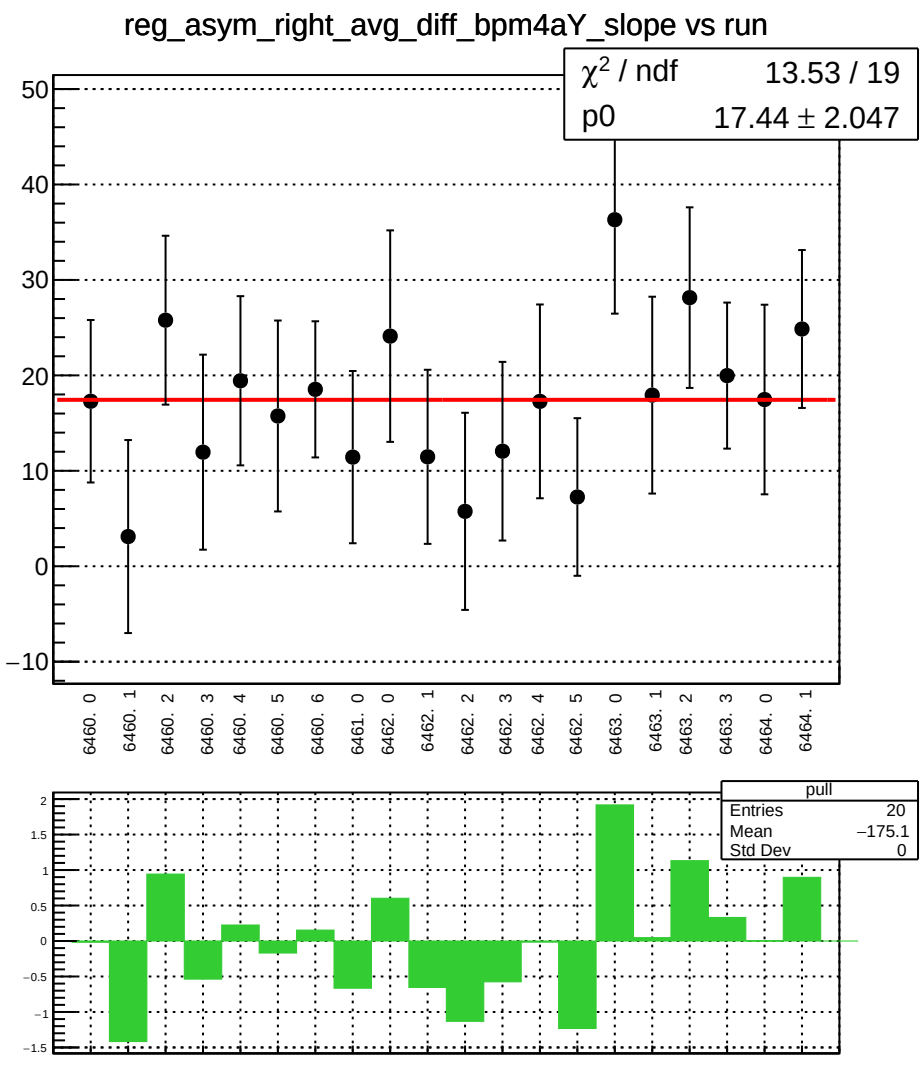

pull1D
Entries 20
Mean 0.0184
Std Dev 0.7228
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

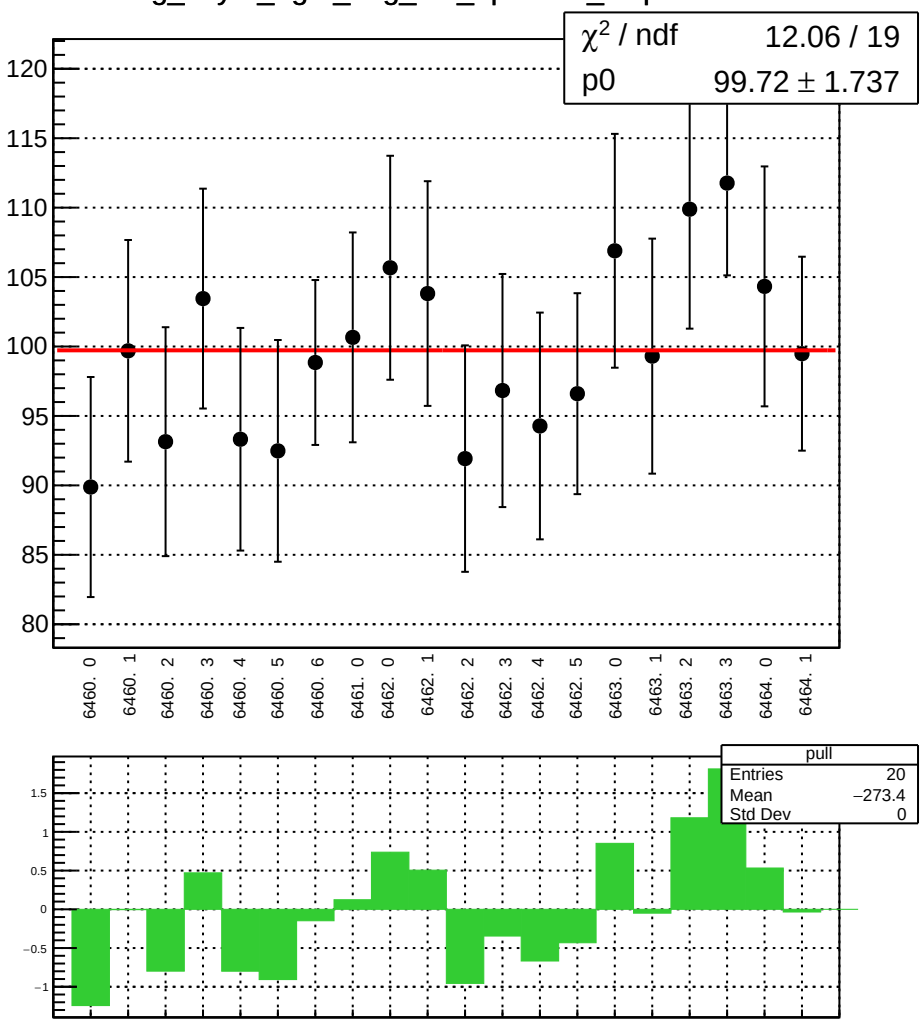

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.211 / 19
p0 −13.41± 2.064
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −160.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 20
Mean 0.01116
Std Dev 0.6004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

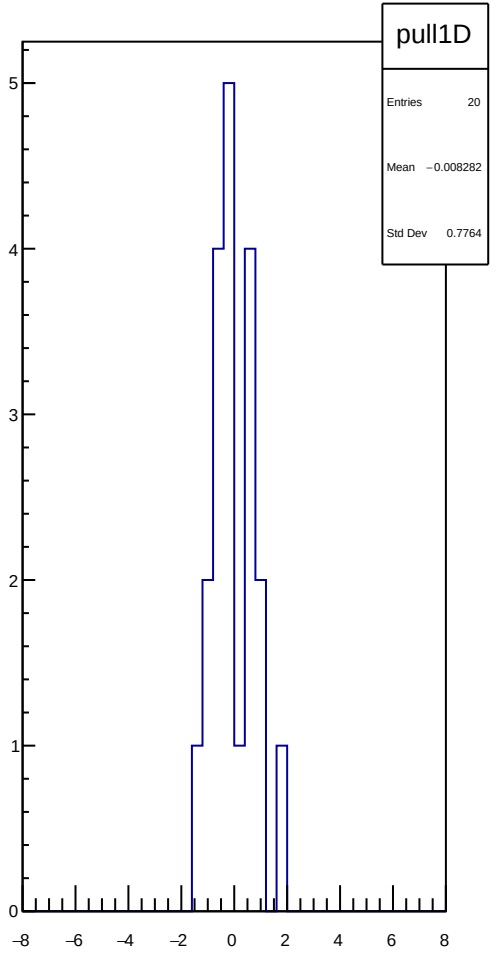

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 66.74 / 19
p0 −23.67 ± 0.08627
−22
−22.5
−23
−23.5
−24
−24.5
−25
−25.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −364.7
Std Dev 0
pull1D
Entries 20
Mean 0.02522
Std Dev 1.827

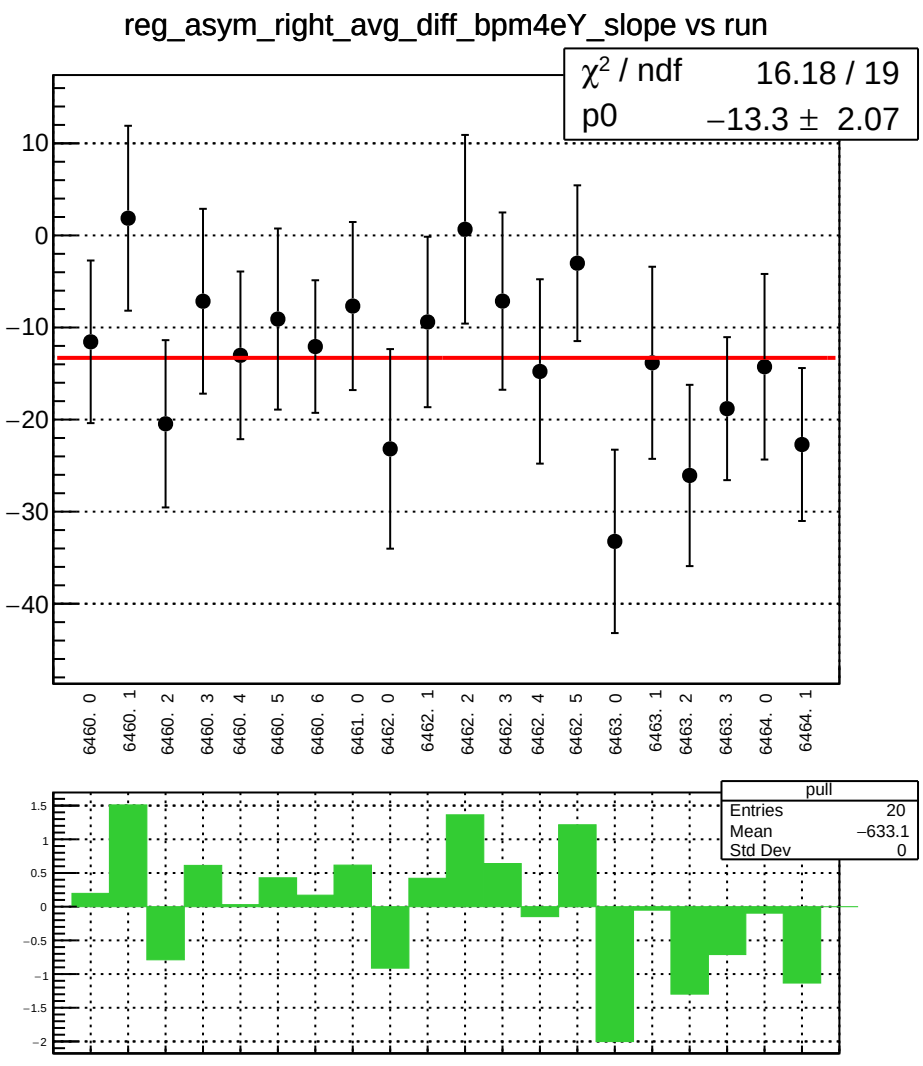

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 11.93 / 19
p0 −64.73 ± 1.751
−45
−50
−55
−60
−65
−70
−75
−80
−85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −291.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

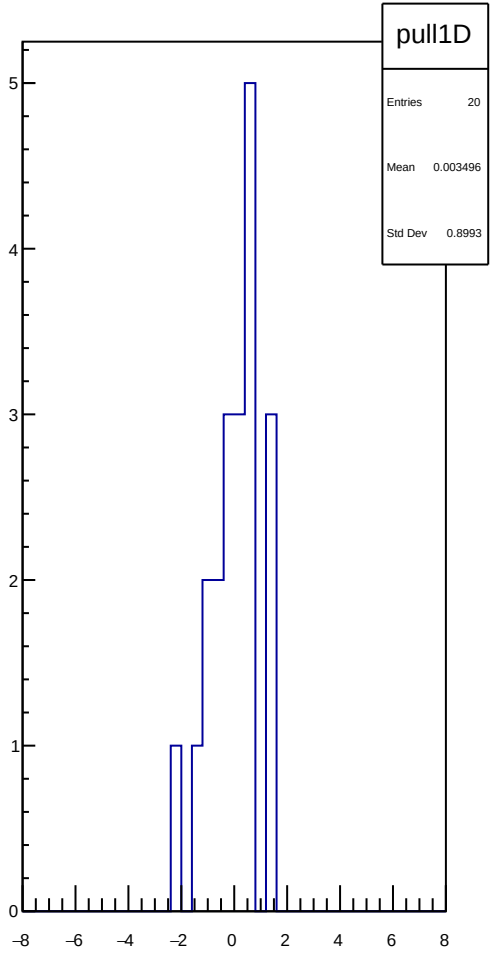

pull1D
Entries 20
Mean 0.006996
Std Dev 0.7721
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

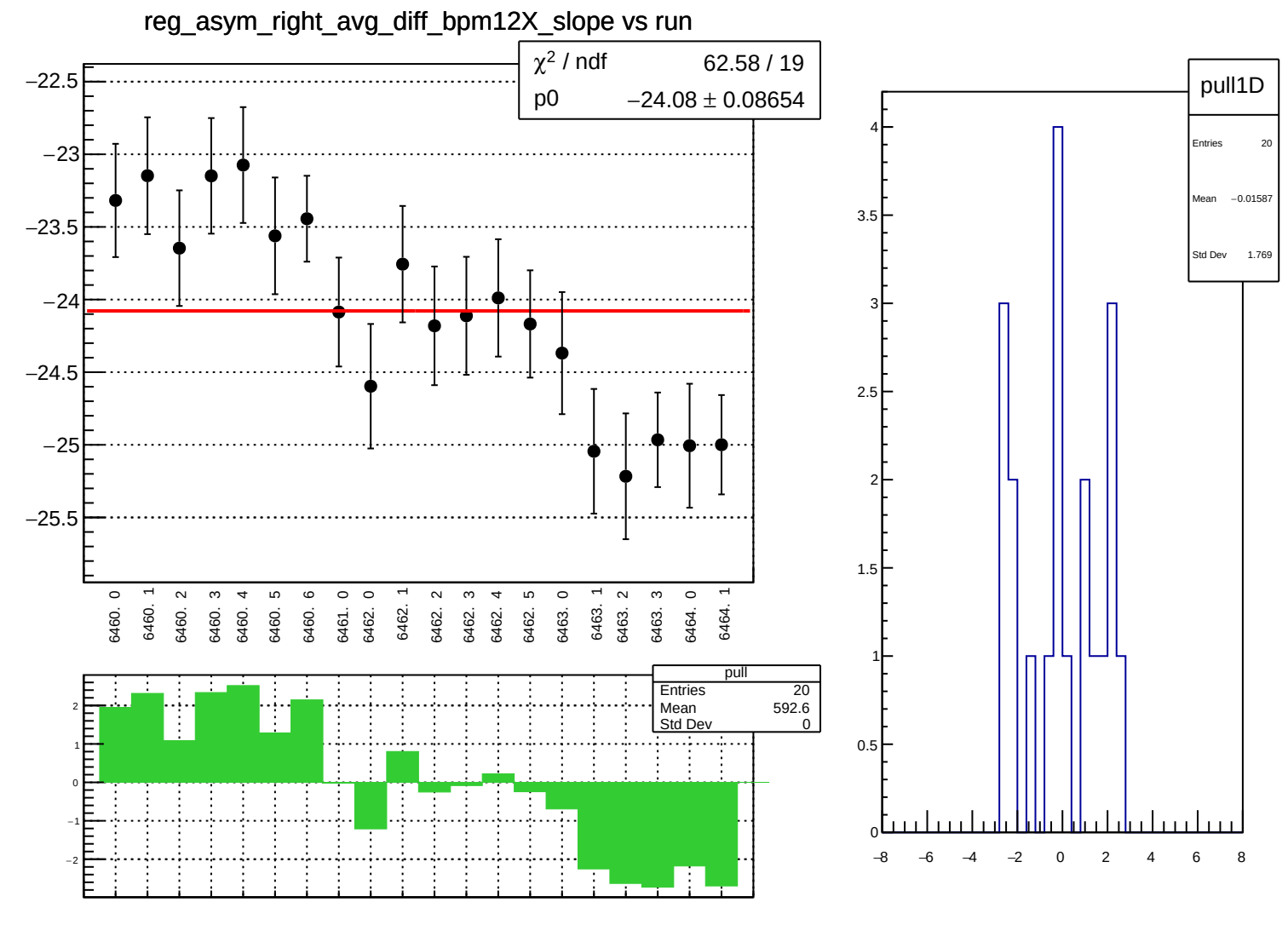

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.53 / 19
p0 17.44 ± 2.047
50
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −175.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.008156
Std Dev 0.8224
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

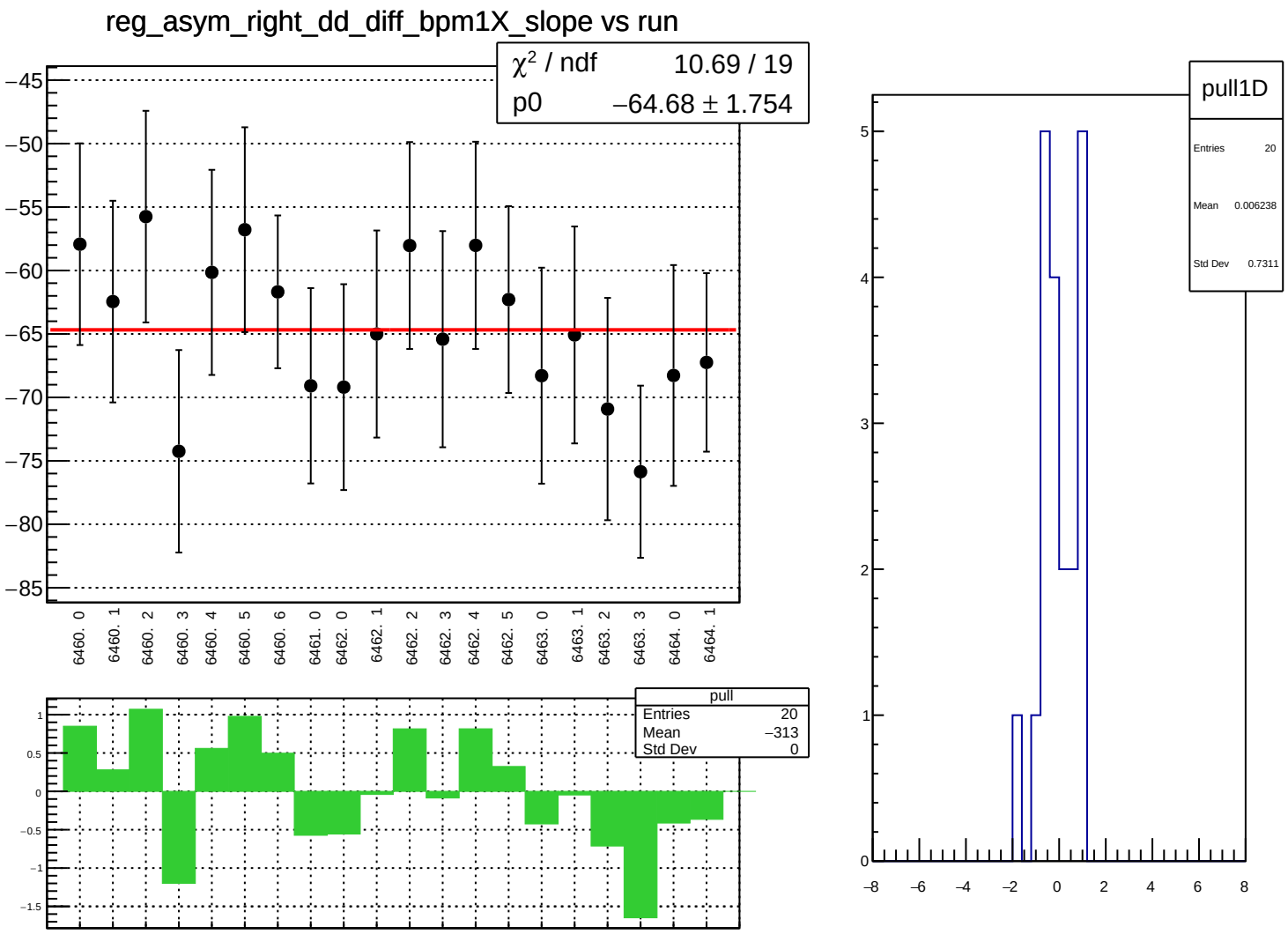

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.06 / 19
p0 99.72 ± 1.737
120
115
110
105
100
95
90
85
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −273.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

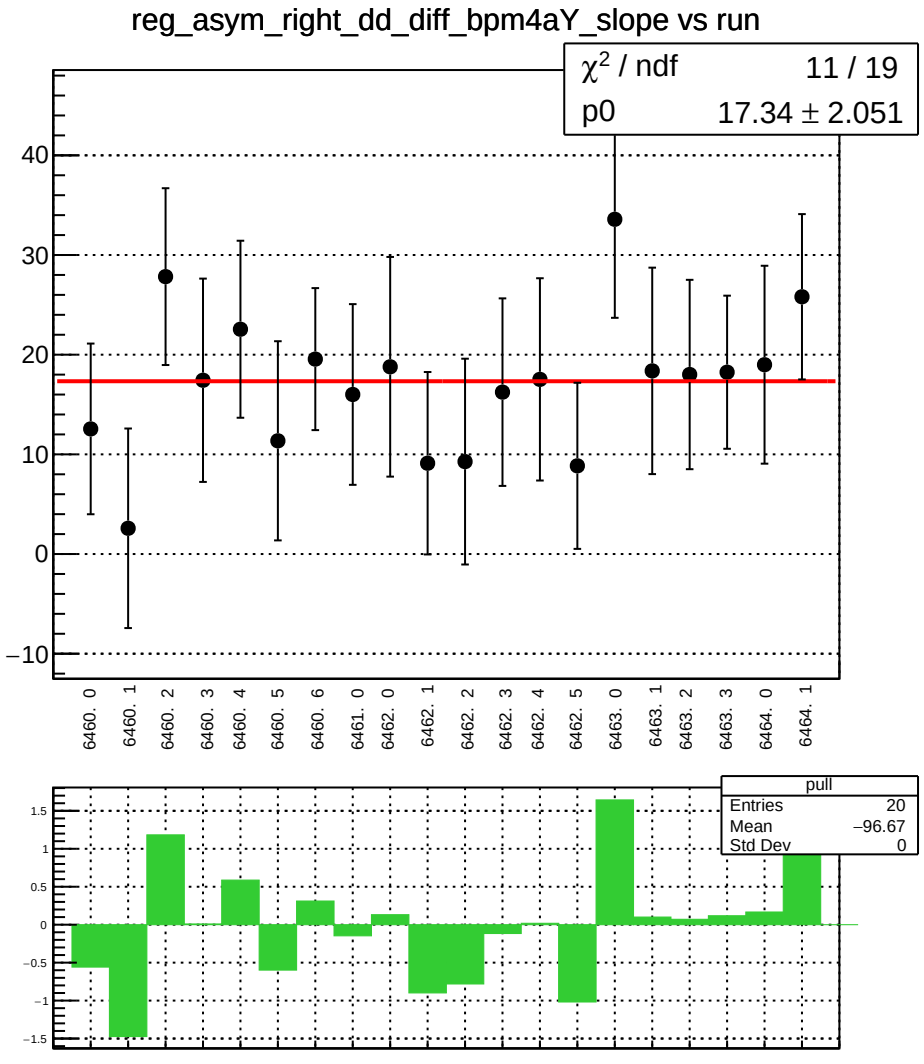

pull1D
Entries 20
Mean −0.008282
Std Dev 0.7764
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

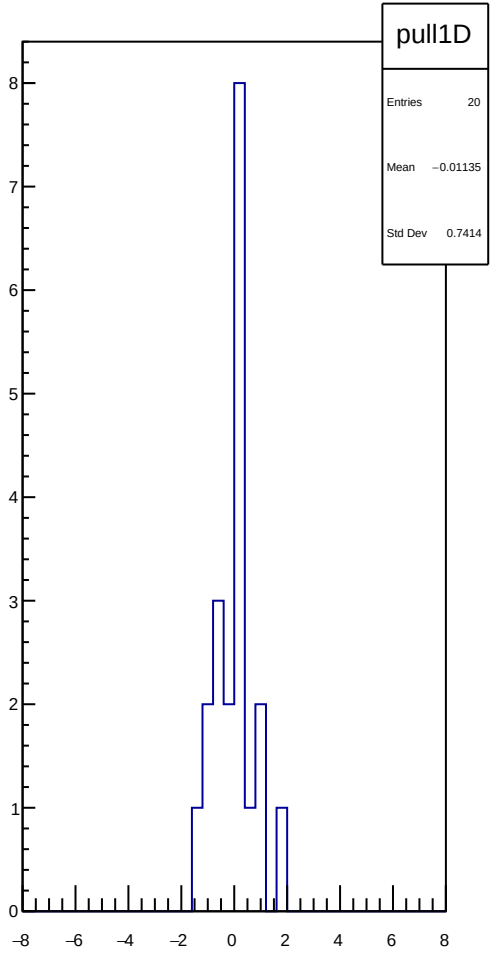

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.18 / 19
p0 −13.3 ± 2.07
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −633.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

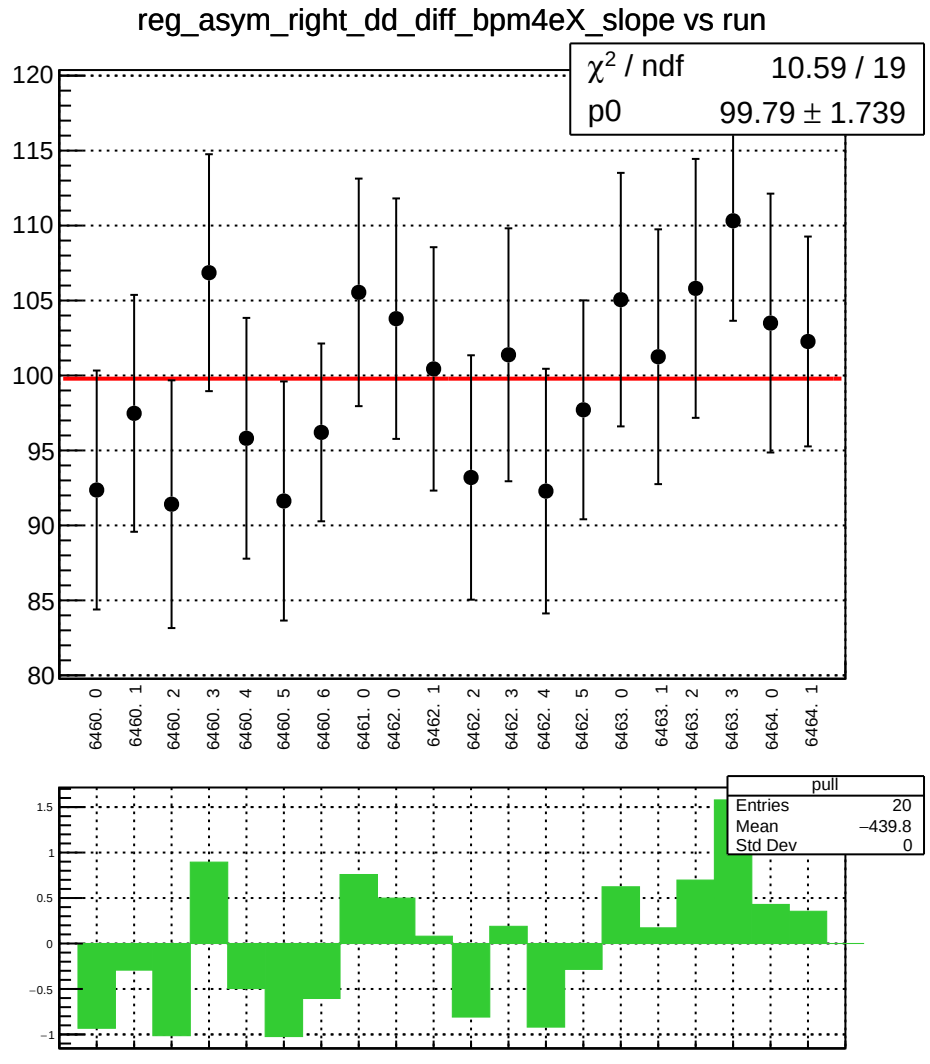

pull1D
Entries 20
Mean 0.003496
Std Dev 0.8993
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

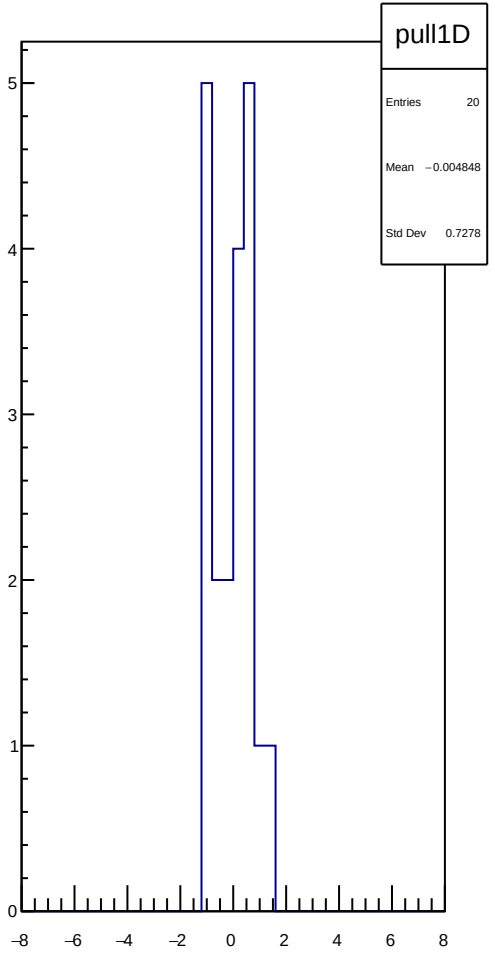

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 62.58 / 19
p0 −24.08 ± 0.08654
−22.5
−23
−23.5
−24
−24.5
−25
−25.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 592.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.01587
Std Dev 1.769
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

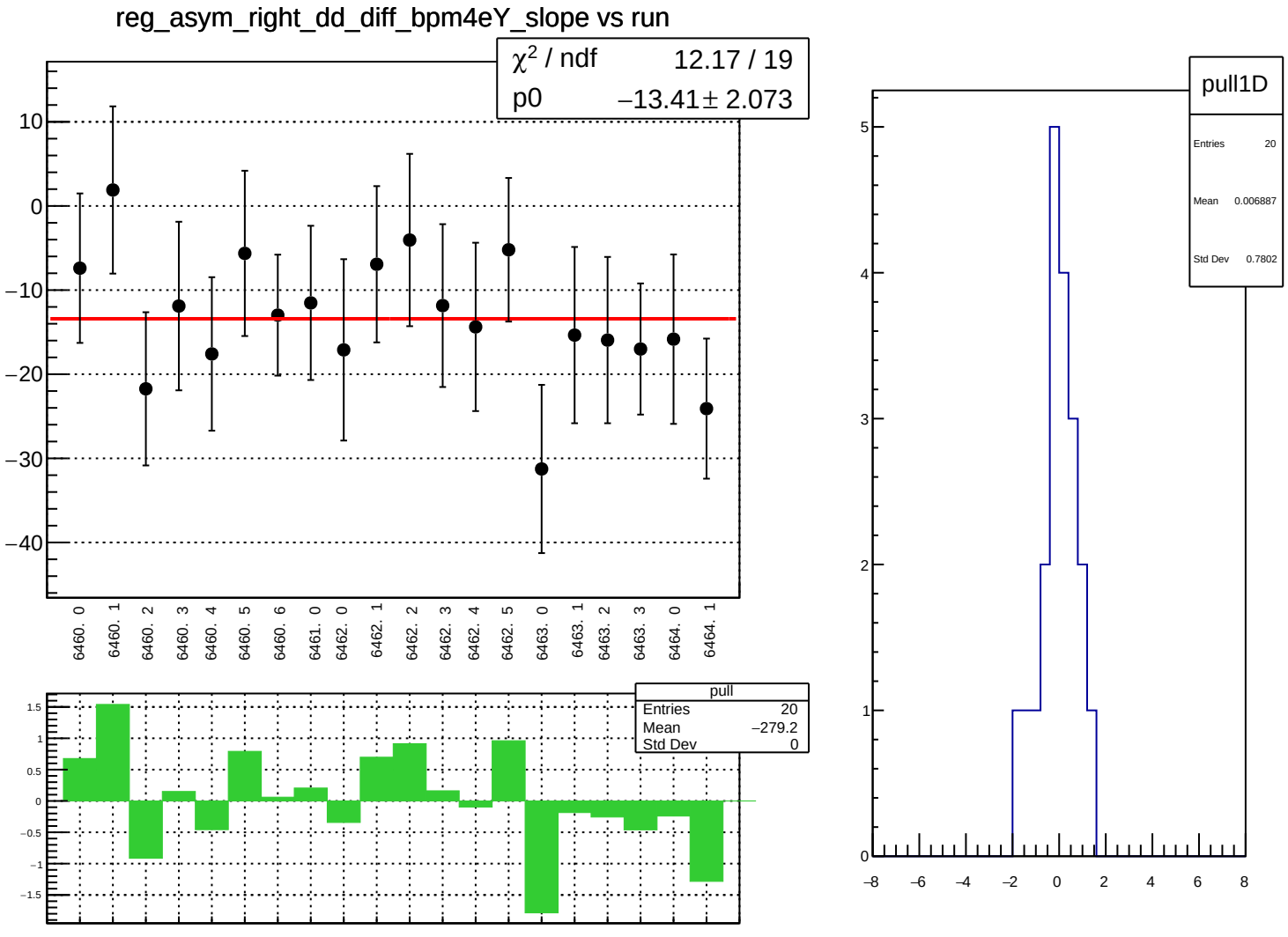

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 10.69 / 19
p0 −64.68 ± 1.754
−45
−50
−55
−60
−65
−70
−75
−80
−85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −313
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.006238
Std Dev 0.7311
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

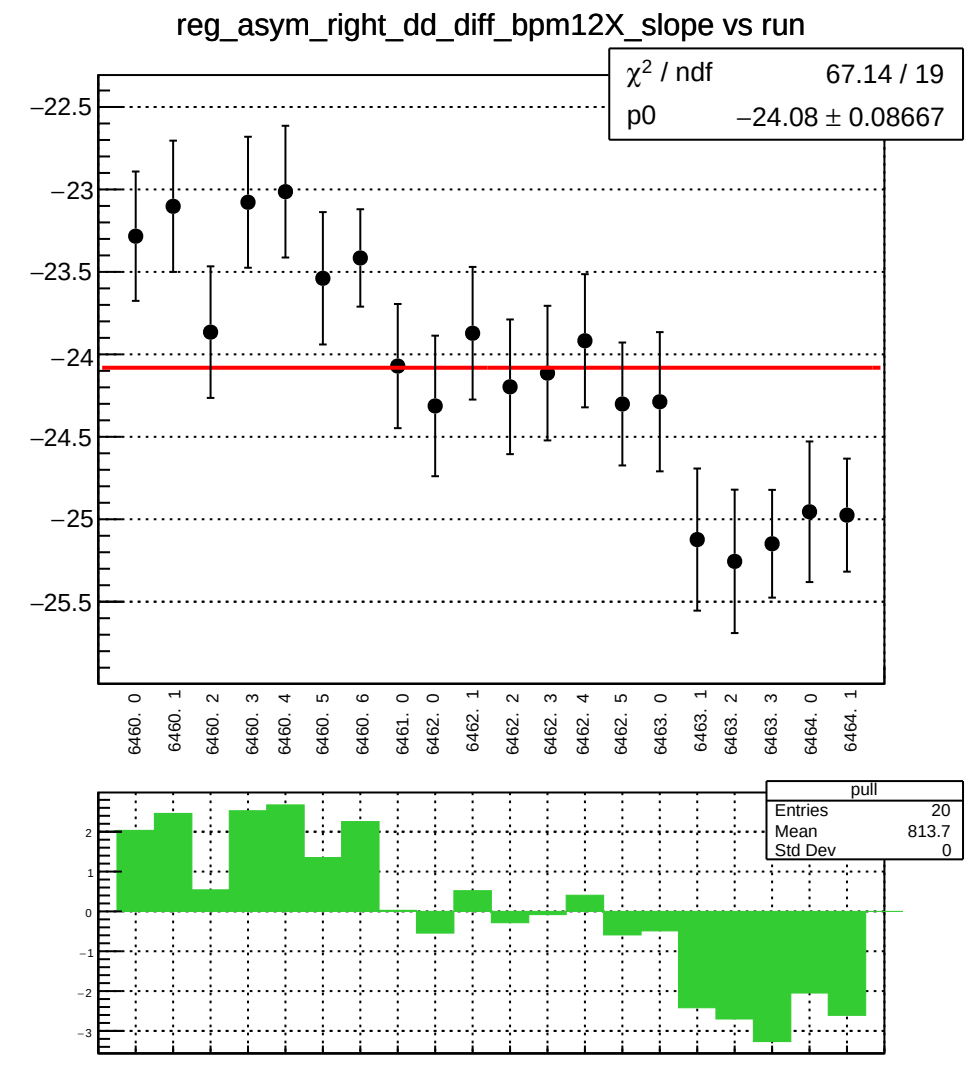

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 11 / 19
p0 17.34 ± 2.051
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −96.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

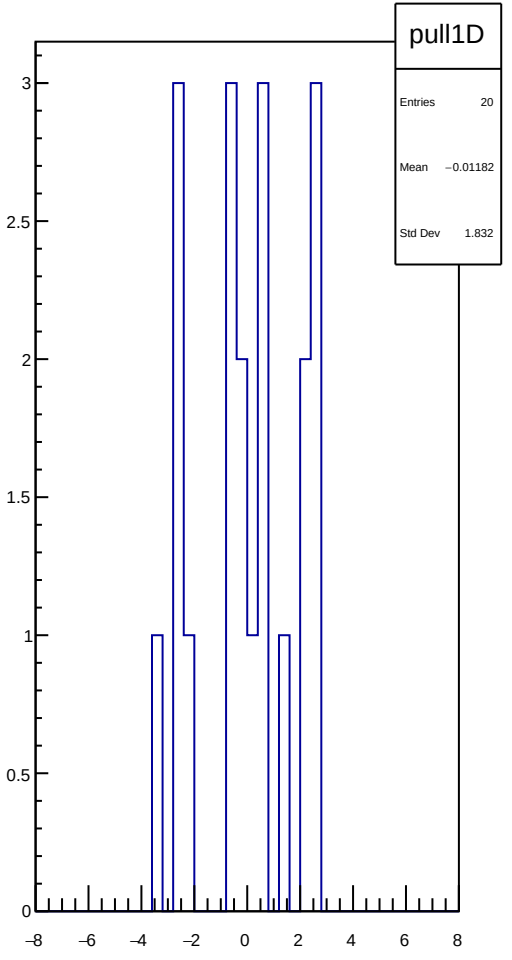

pull1D
Entries 20
Mean −0.01135
Std Dev 0.7414
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

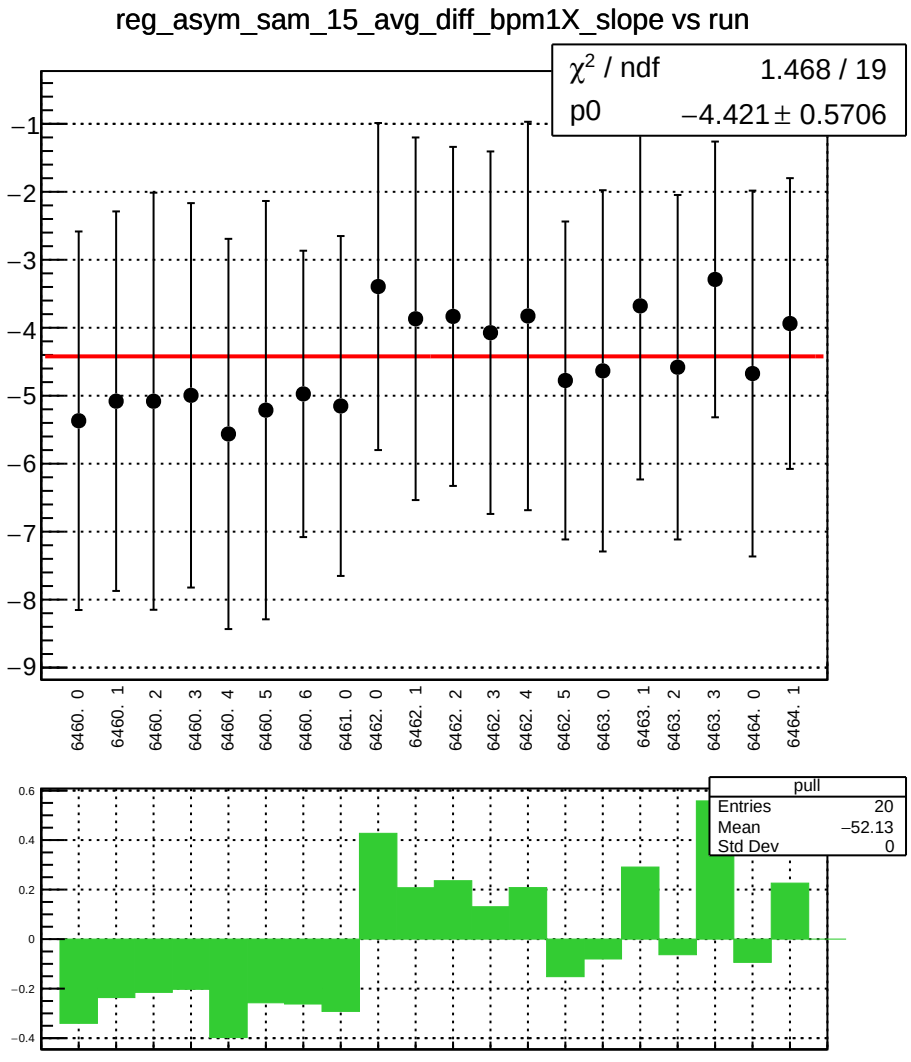

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.59 / 19
p0 99.79 ± 1.739
120
115
110
105
100
95
90
85
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −439.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

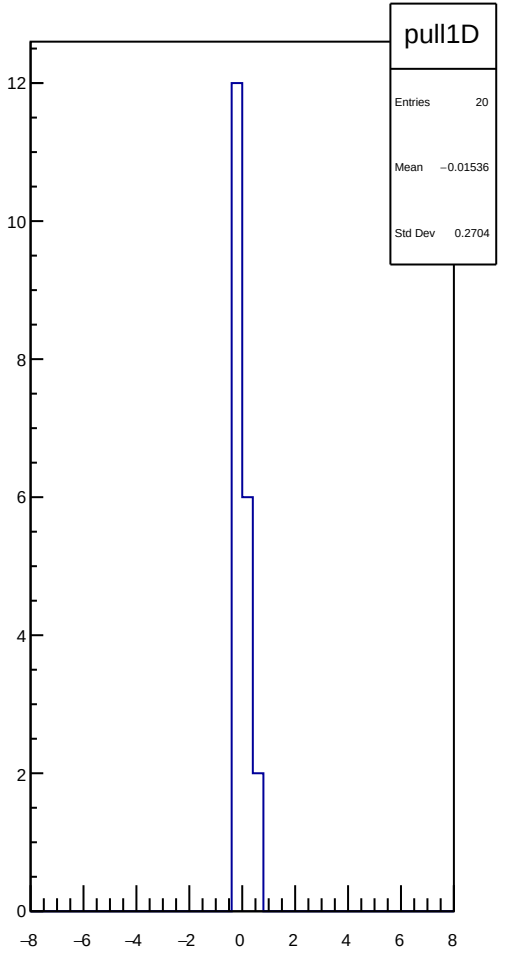

pull1D
Entries 20
Mean −0.004848
Std Dev 0.7278
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

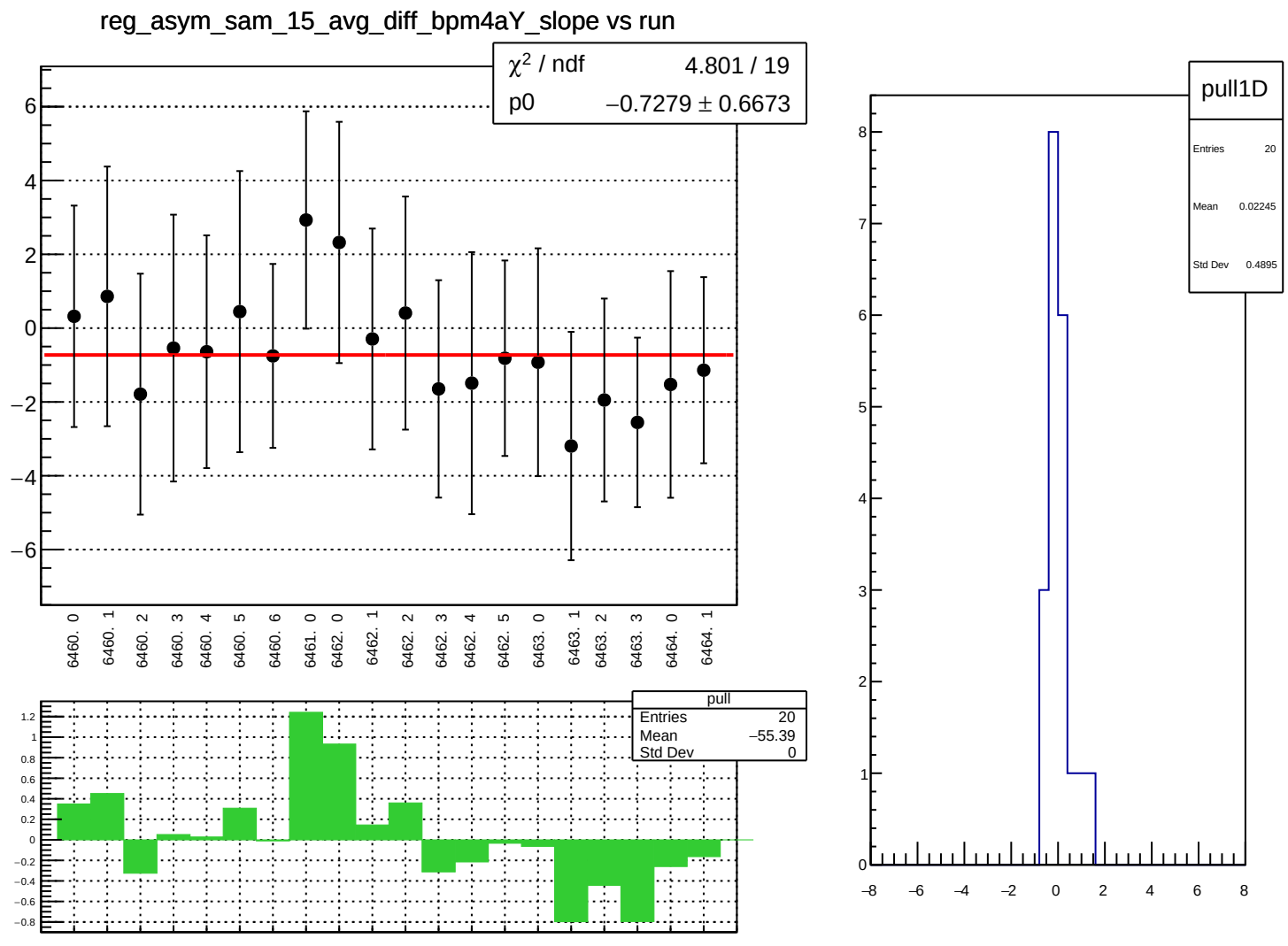

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.17 / 19
p0 −13.41± 2.073
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −279.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.006887
Std Dev 0.7802
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

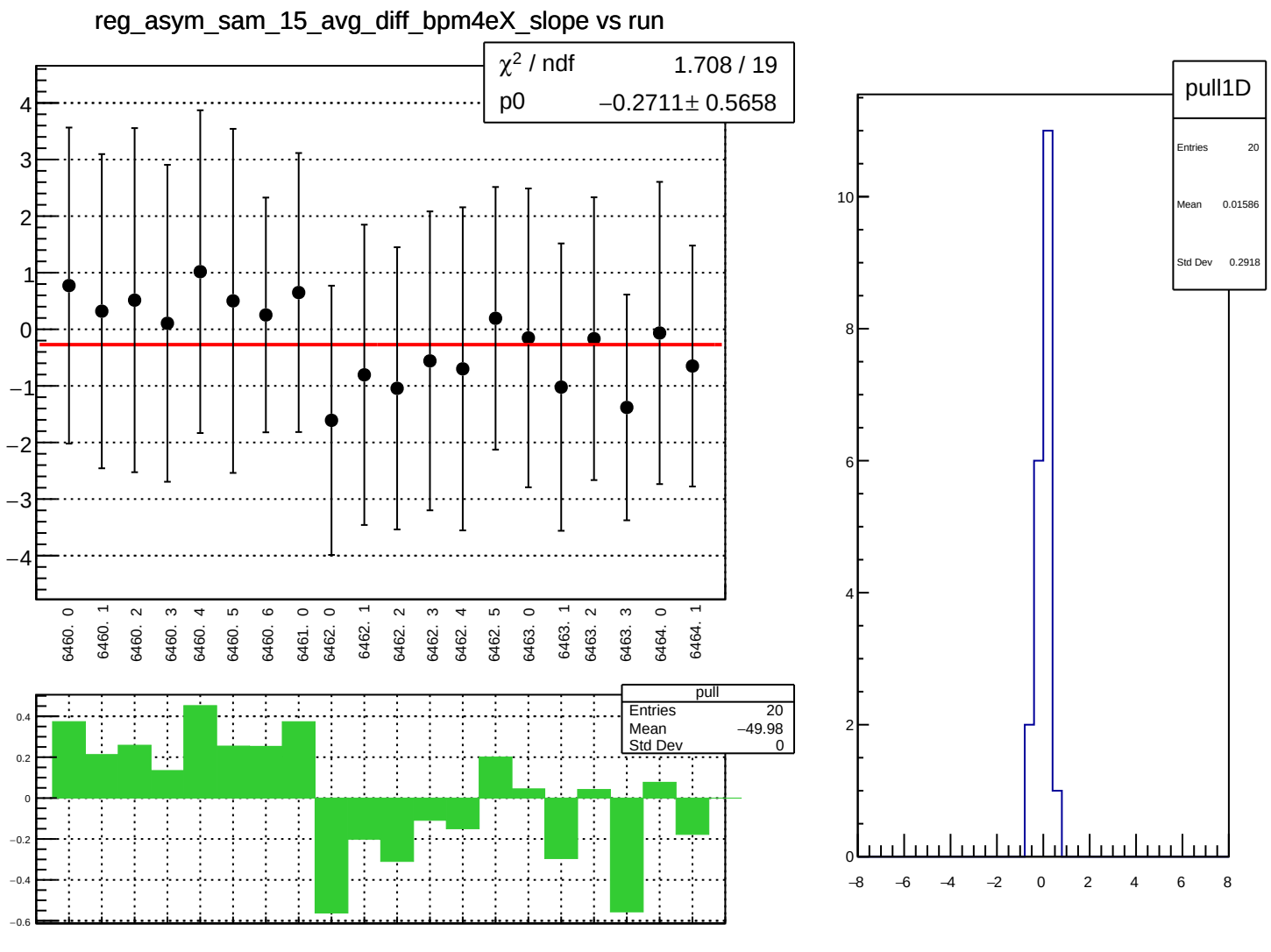

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 67.14 / 19
p0 −24.08 ± 0.08667
−22.5
−23
−23.5
−24
−24.5
−25
−25.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 813.7
Std Dev 0
2
1
0
−1
−2
−3

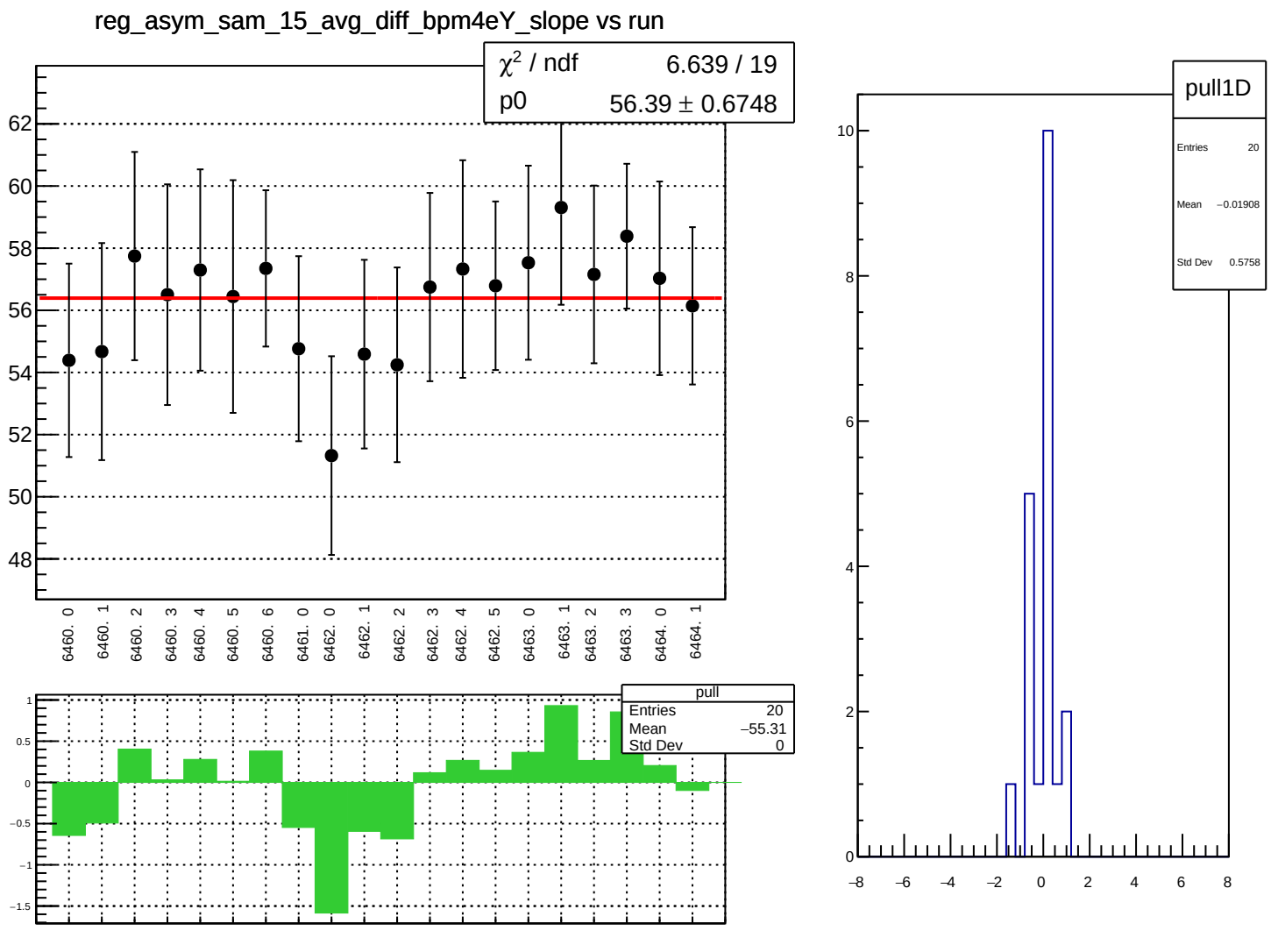

pull1D
Entries 20
Mean −0.01182
Std Dev 1.832
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

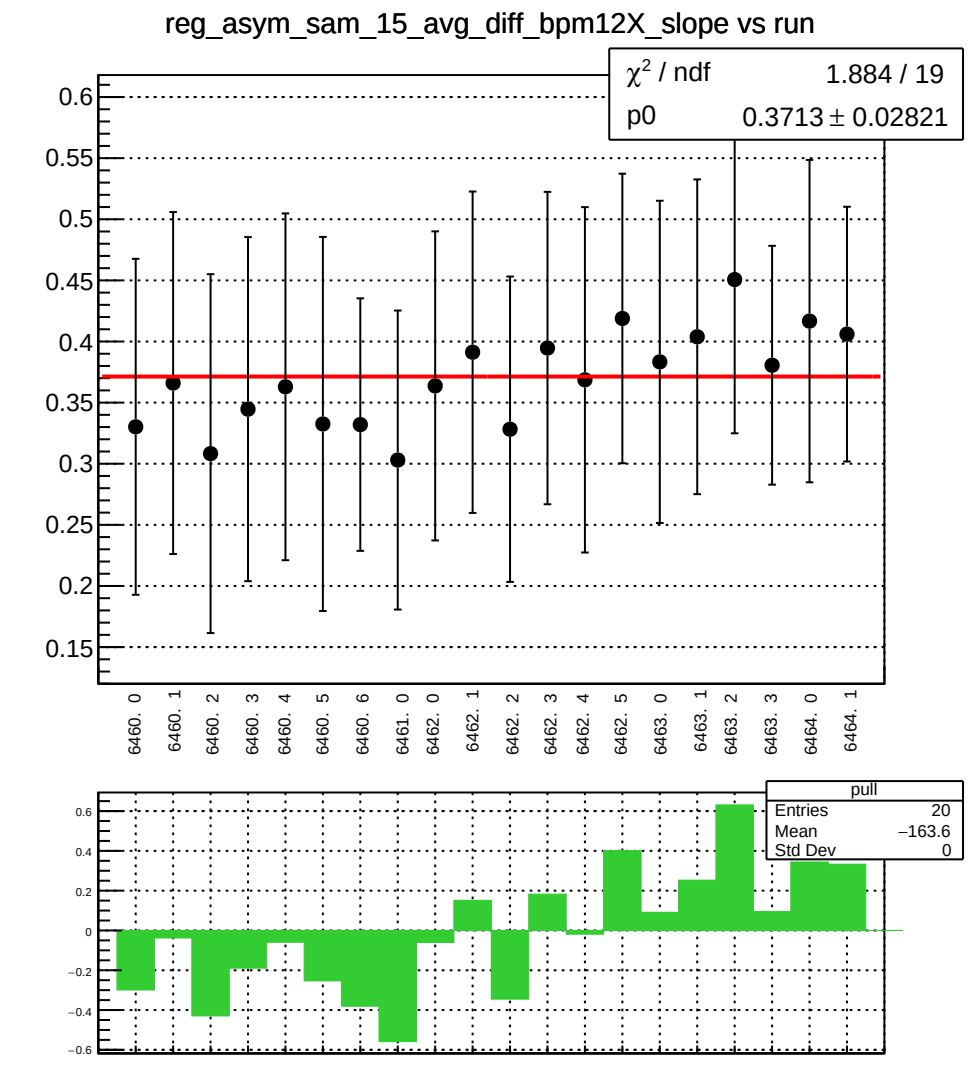

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 1.468 / 19
p0 −4.421 ± 0.5706
−1
−2
−3
−4
−5
−6
−7
−8
−9
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.13
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

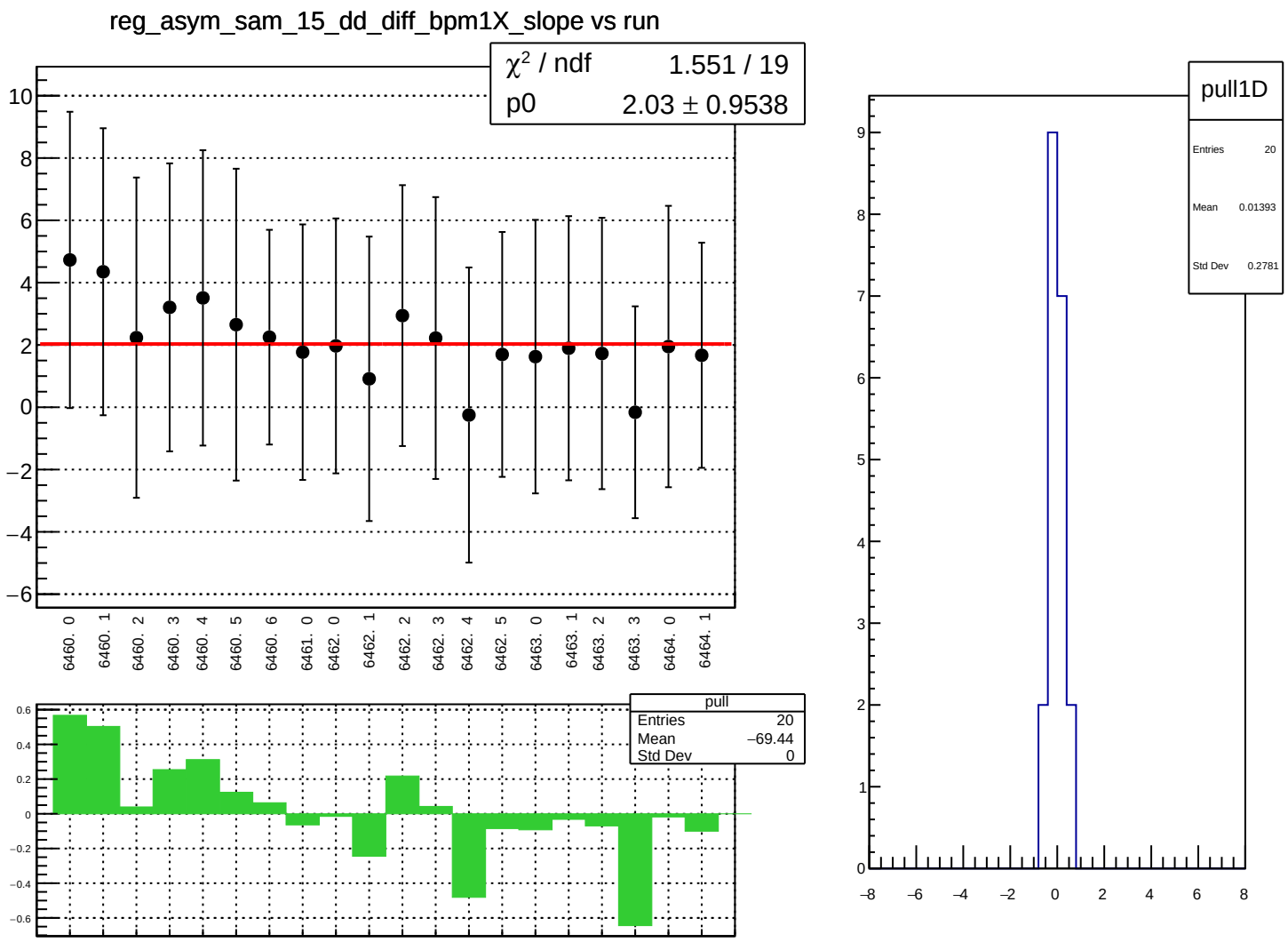

pull1D
Entries 20
Mean −0.01536
Std Dev 0.2704
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

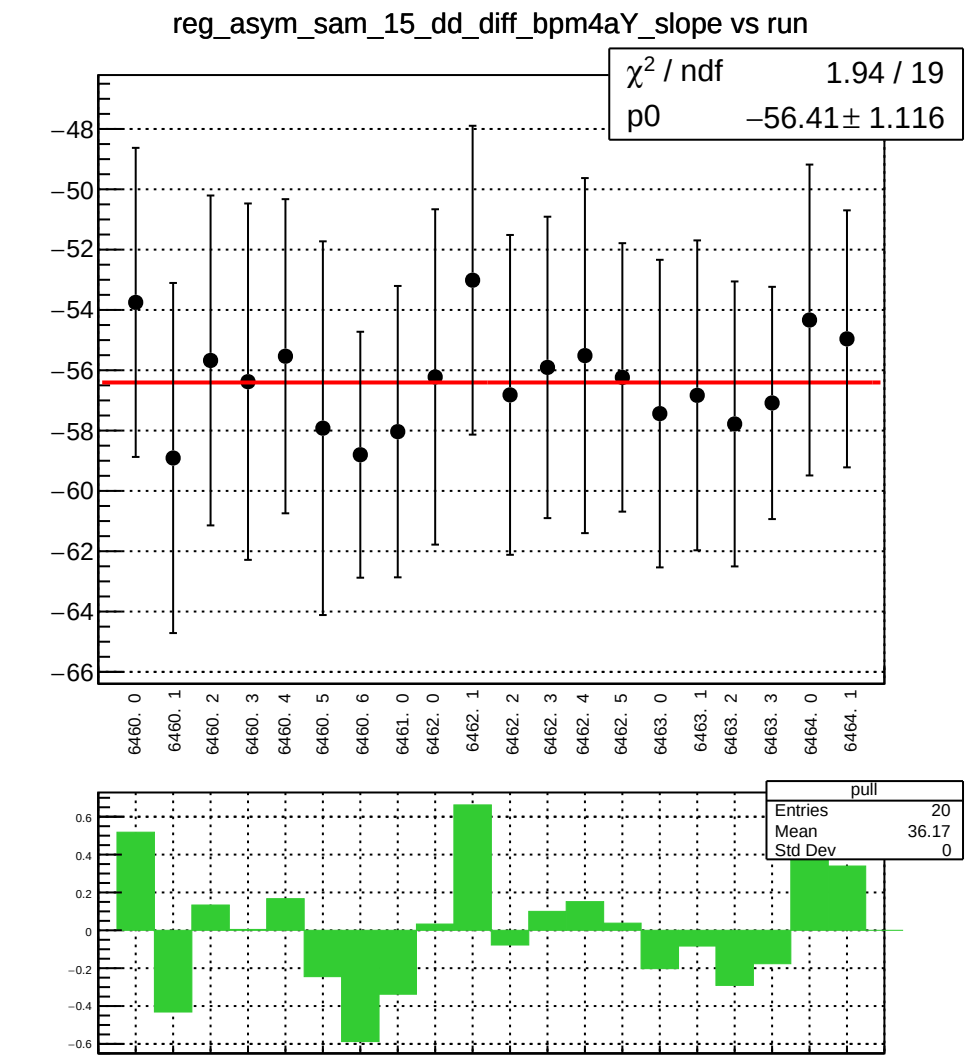

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.801 / 19
p0 −0.7279 ± 0.6673
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −55.39
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.02245
Std Dev 0.4895
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

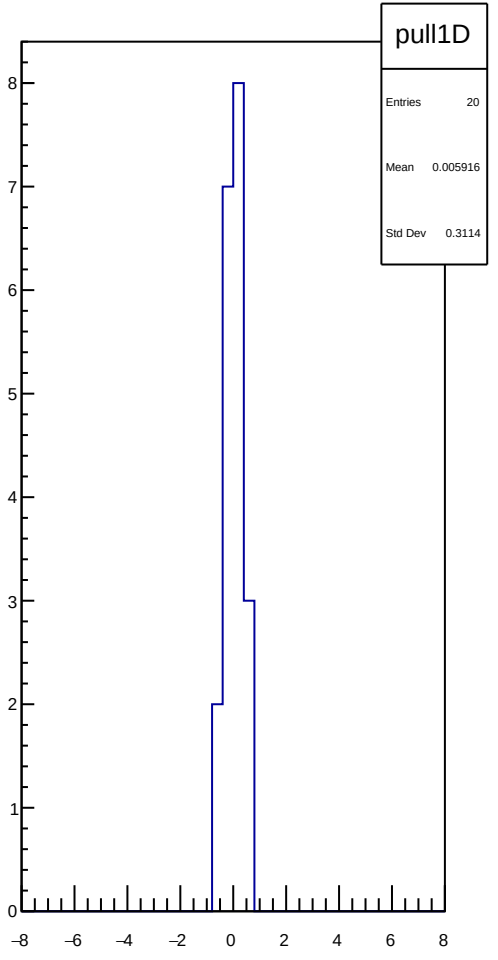

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.708 / 19
p0 −0.2711± 0.5658
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.98
Std Dev 0
pull1D
Entries 20
Mean 0.01586
Std Dev 0.2918

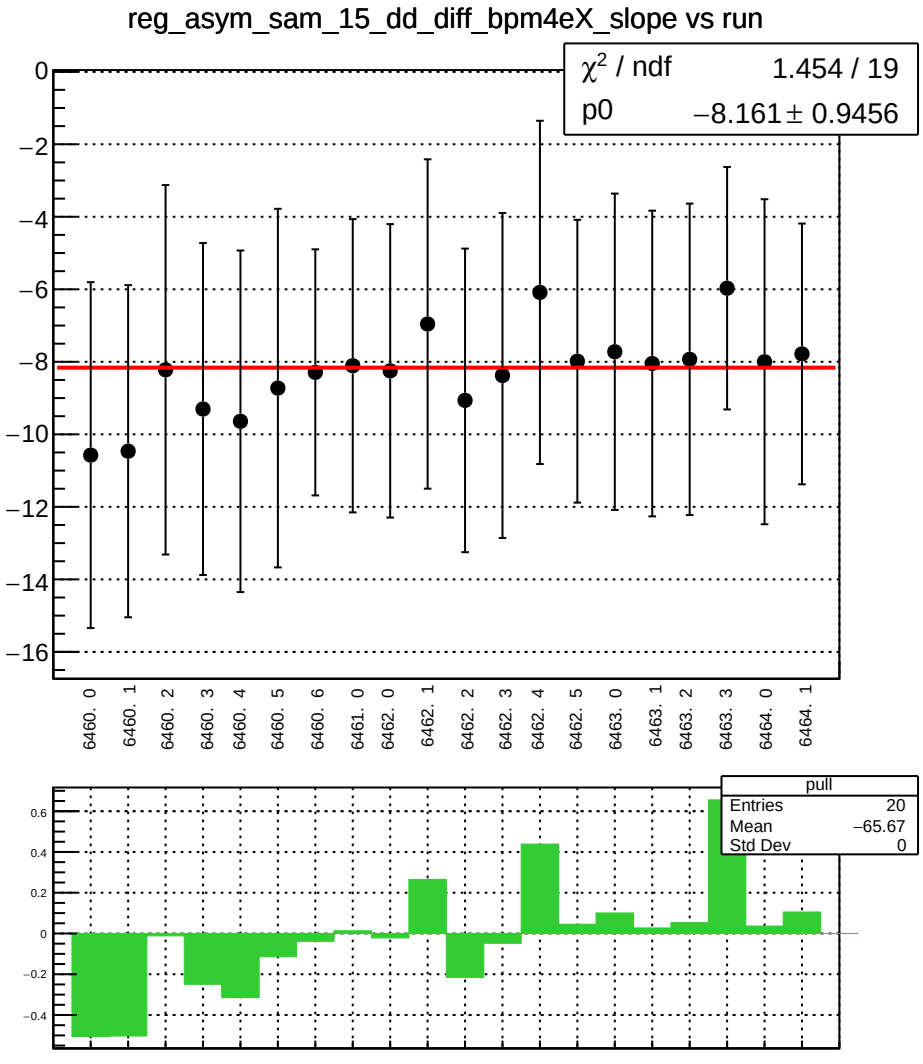

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.639 / 19
p0 56.39 ± 0.6748
62
60
58
56
54
52
50
48
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −55.31
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01908
Std Dev 0.5758
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

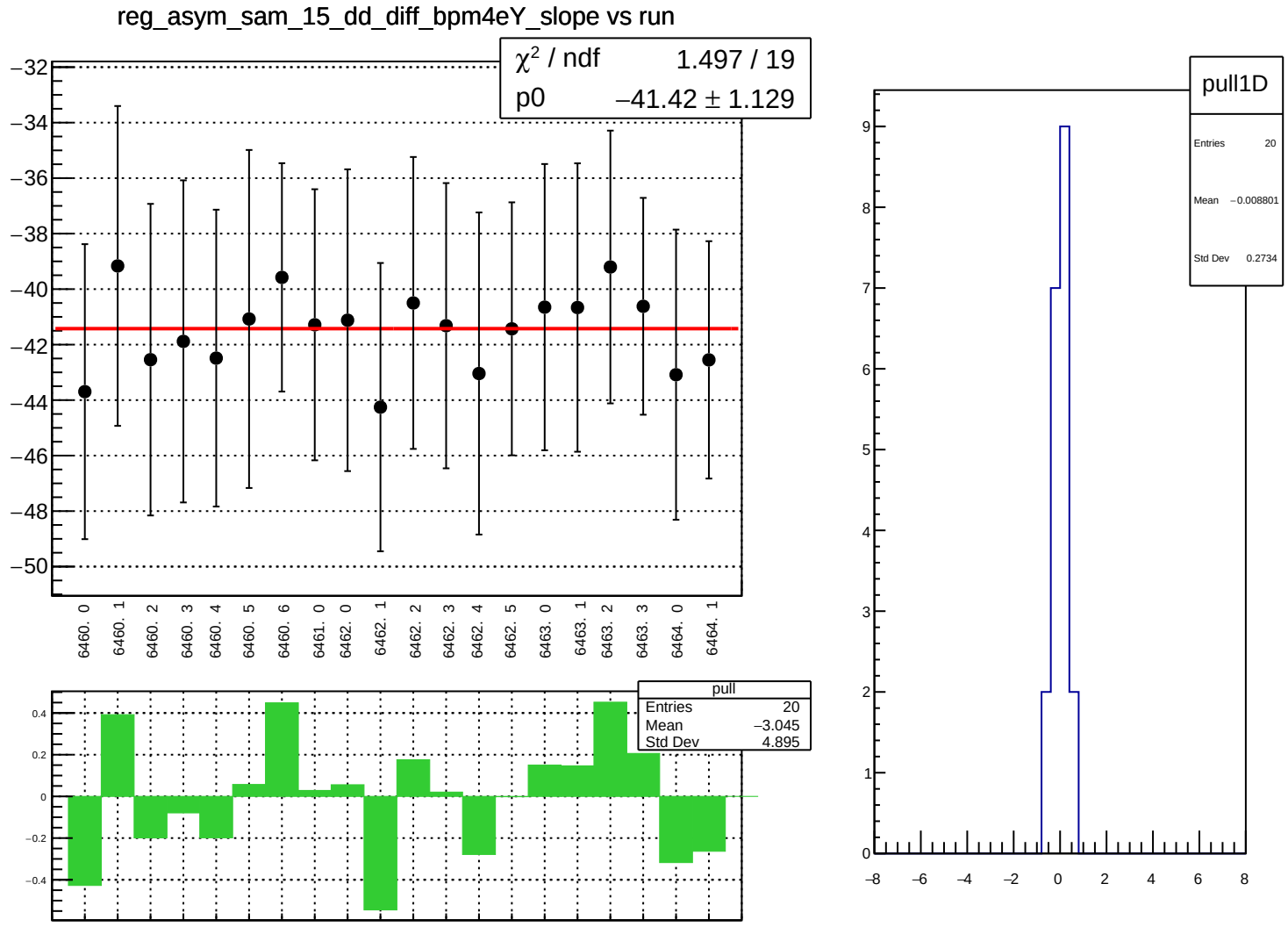

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 1.884 / 19
p0 0.3713 ± 0.02821
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −163.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.007481
Std Dev 0.3068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

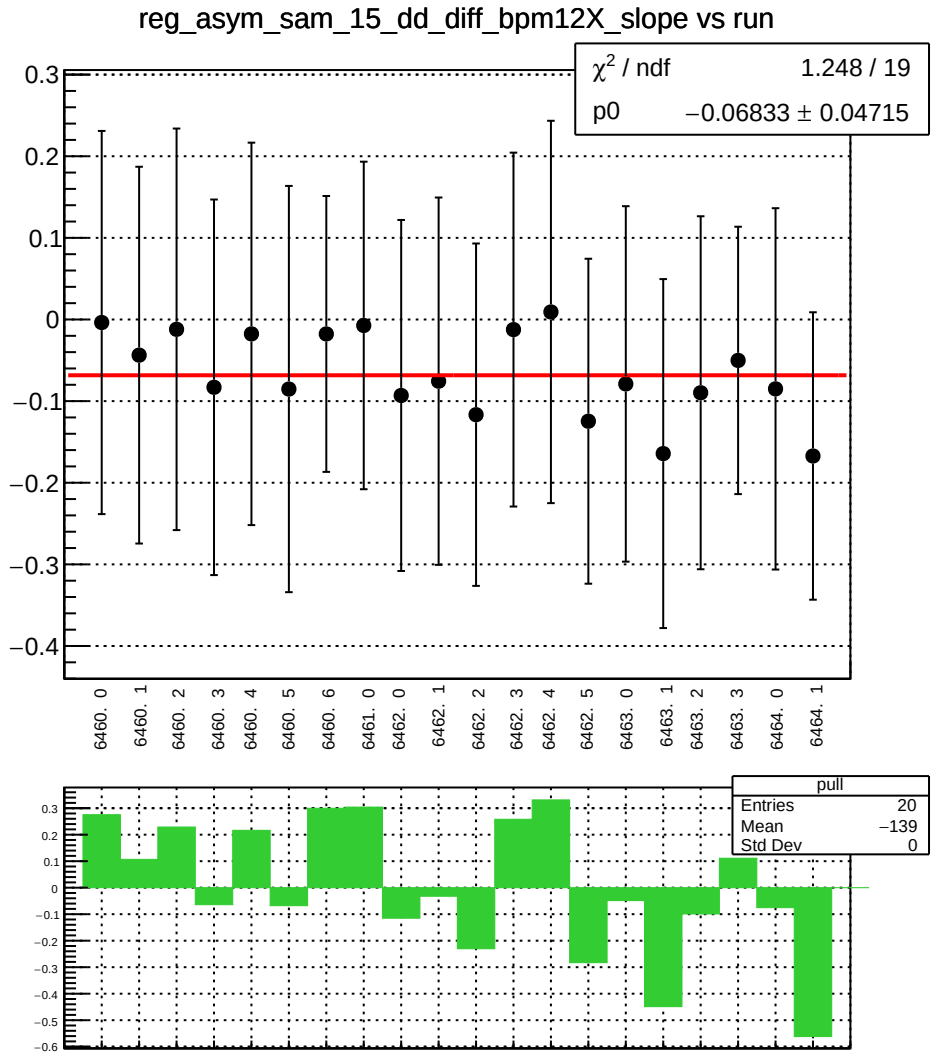

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.551 / 19
p0 2.03 ± 0.9538
10
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −69.44
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.01393
Std Dev 0.2781
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

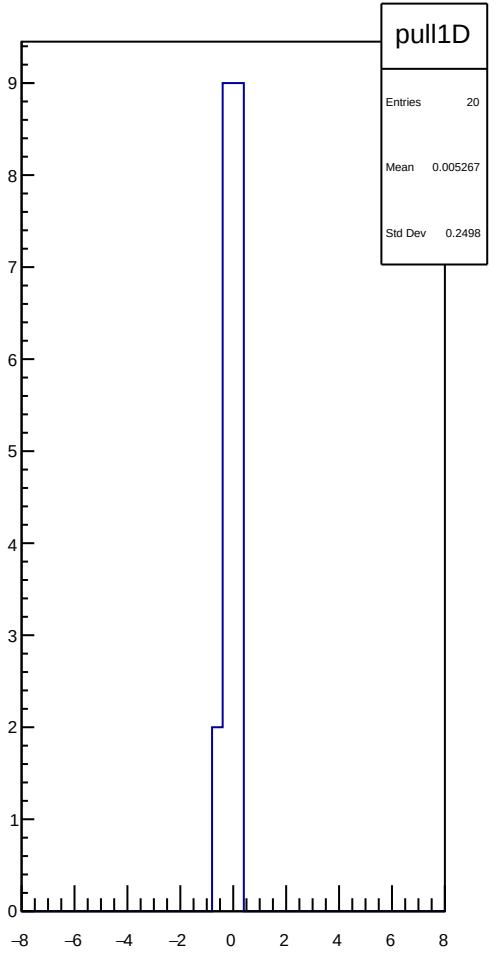

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.94 / 19
p0 −56.41± 1.116
−48
−50
−52
−54
−56
−58
−60
−62
−64
−66
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 36.17
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

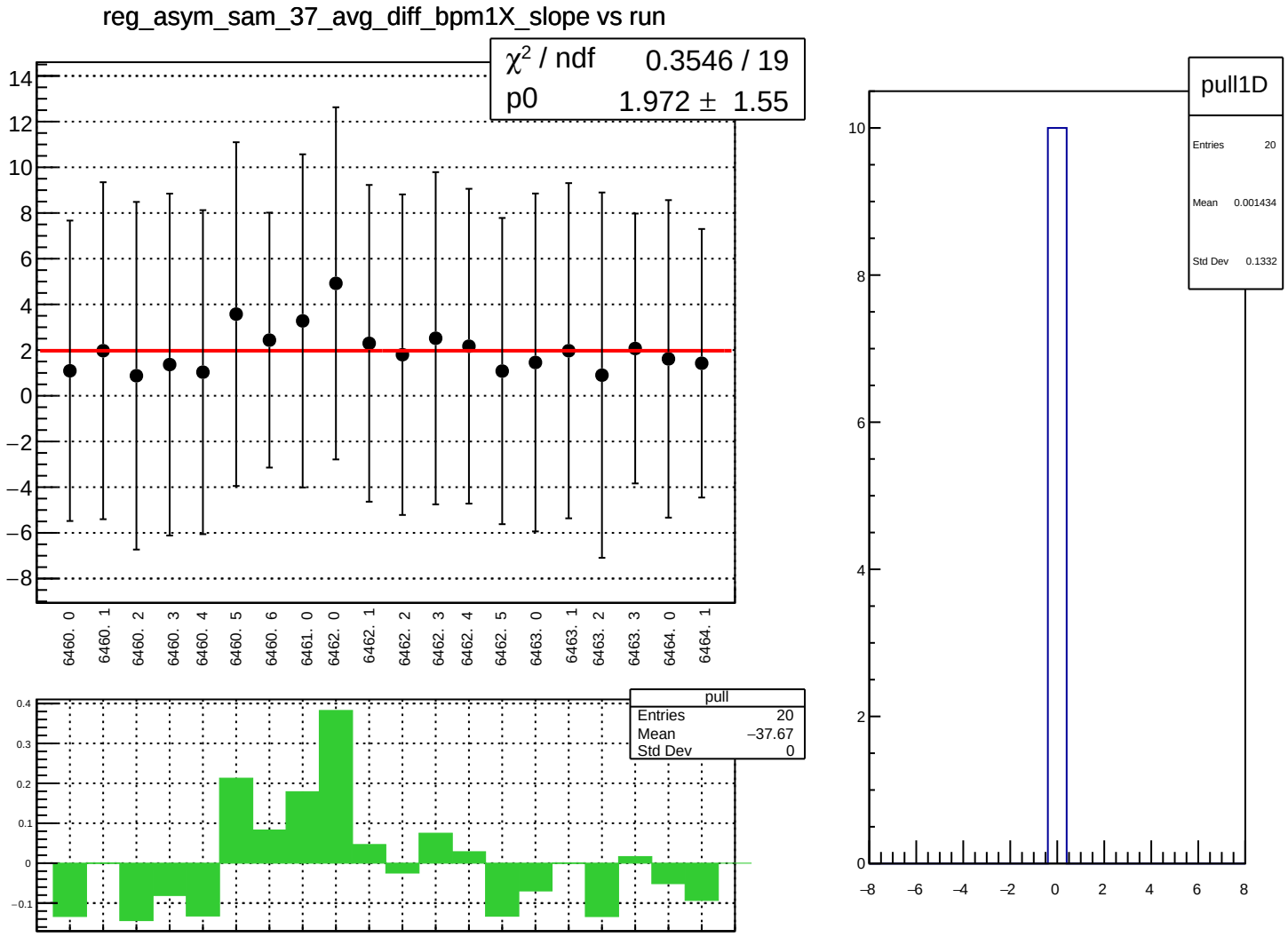

pull1D
Entries 20
Mean 0.005916
Std Dev 0.3114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

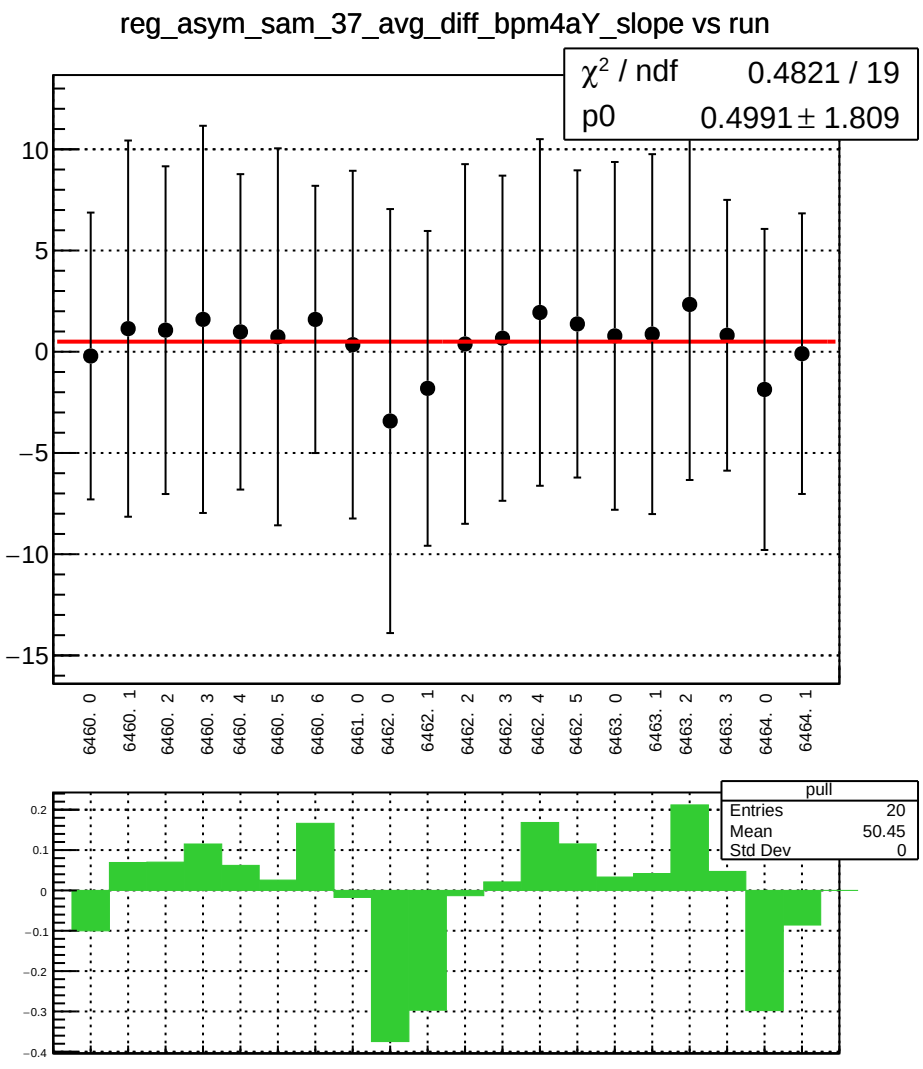

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.454 / 19
p0 −8.161 ± 0.9456
0
−2
−4
−6
−8
−10
−12
−14
−16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −65.67
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean −0.01406
Std Dev 0.2692
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

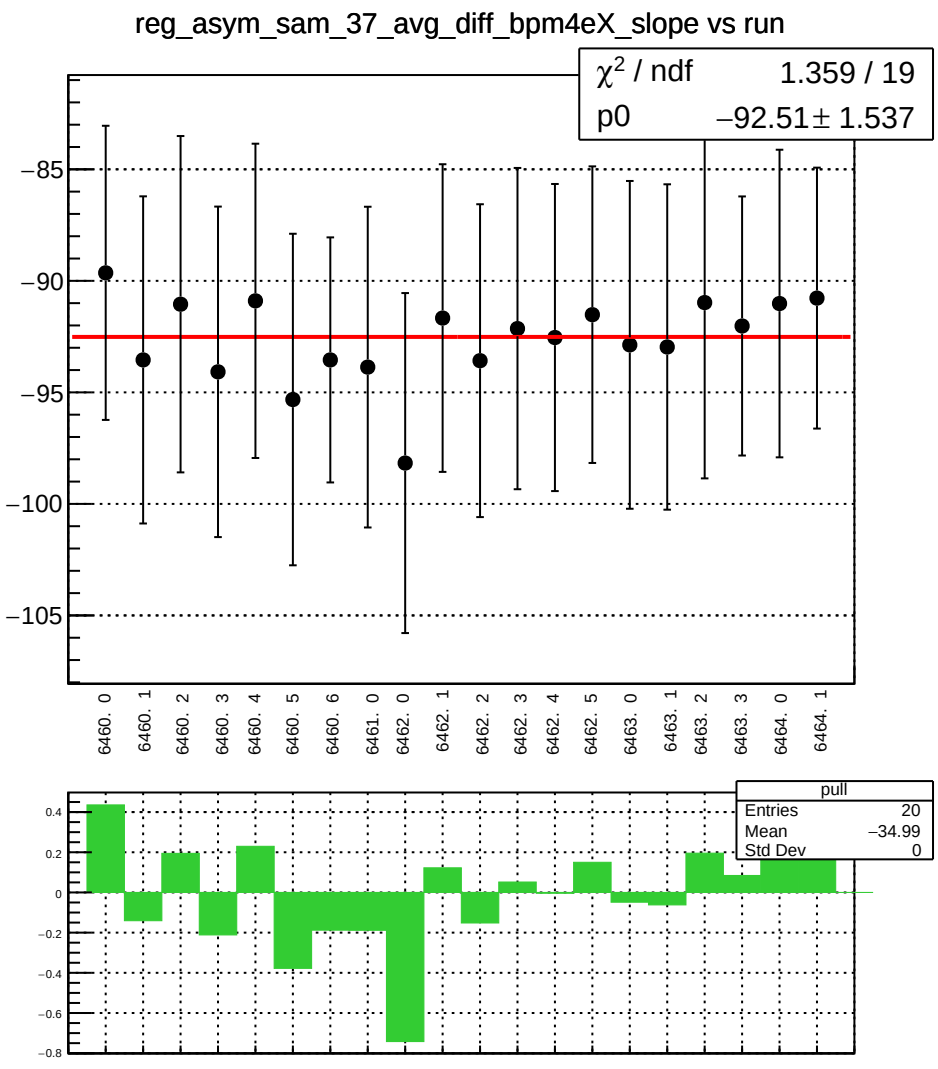

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.497 / 19
p0 −41.42 ± 1.129
−32
−34
−36
−38
−40
−42
−44
−46
−48
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −3.045
Std Dev 4.895
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean −0.008801
Std Dev 0.2734
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

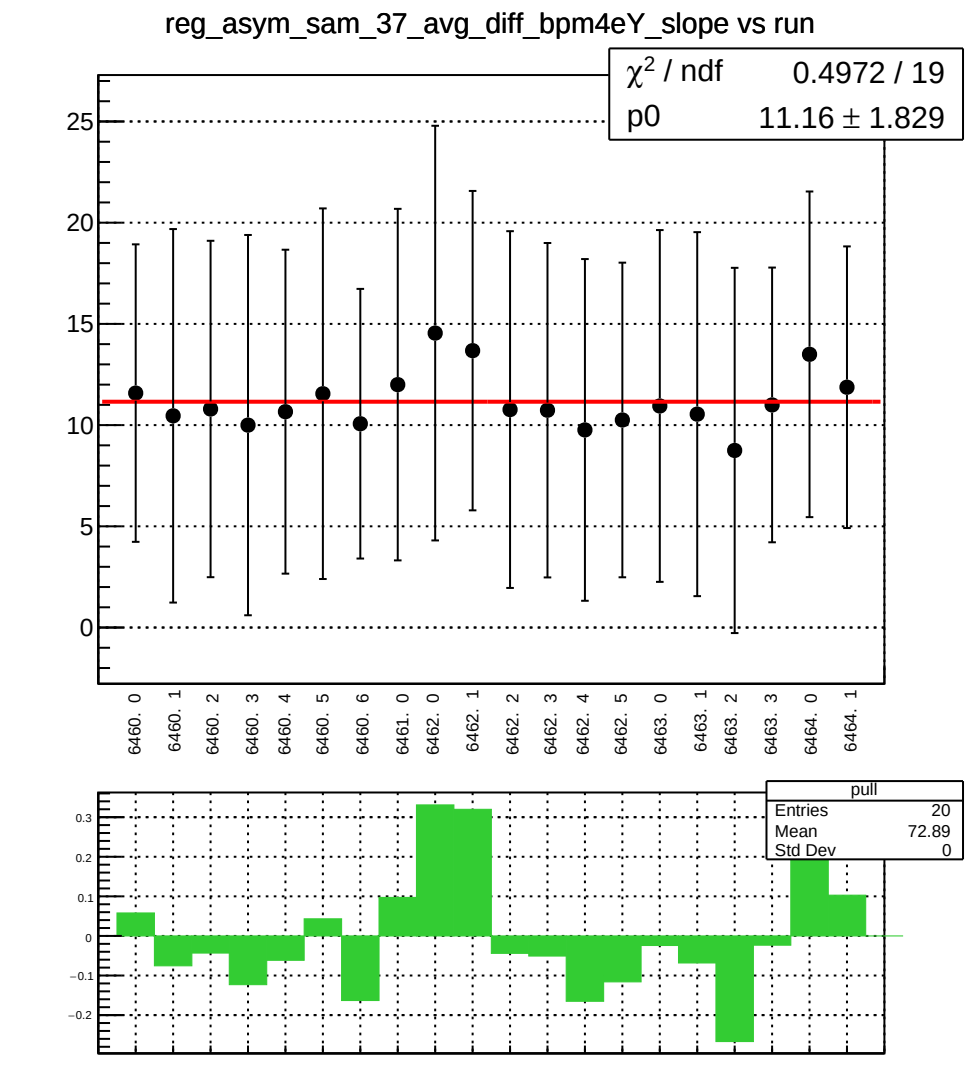

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 1.248 / 19
p0 −0.06833 ± 0.04715
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −139
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

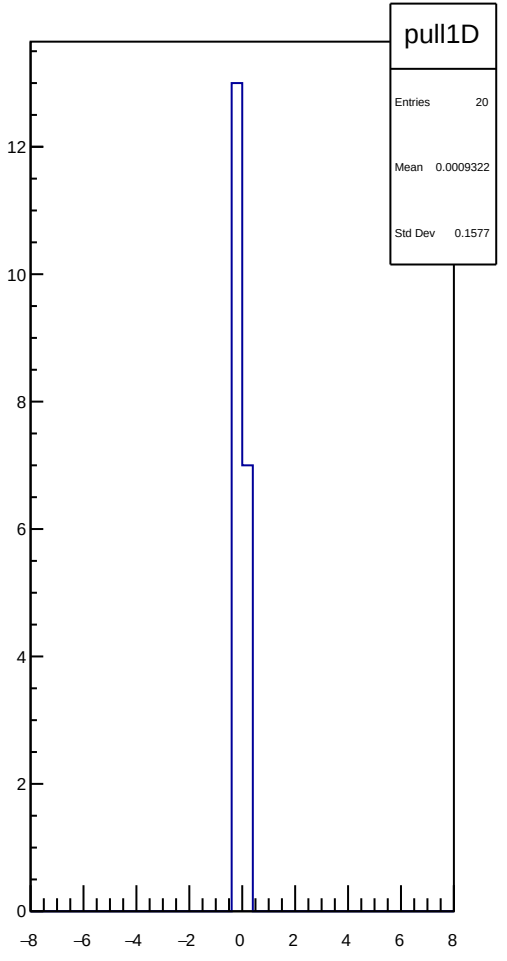

pull1D
Entries 20
Mean 0.005267
Std Dev 0.2498
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

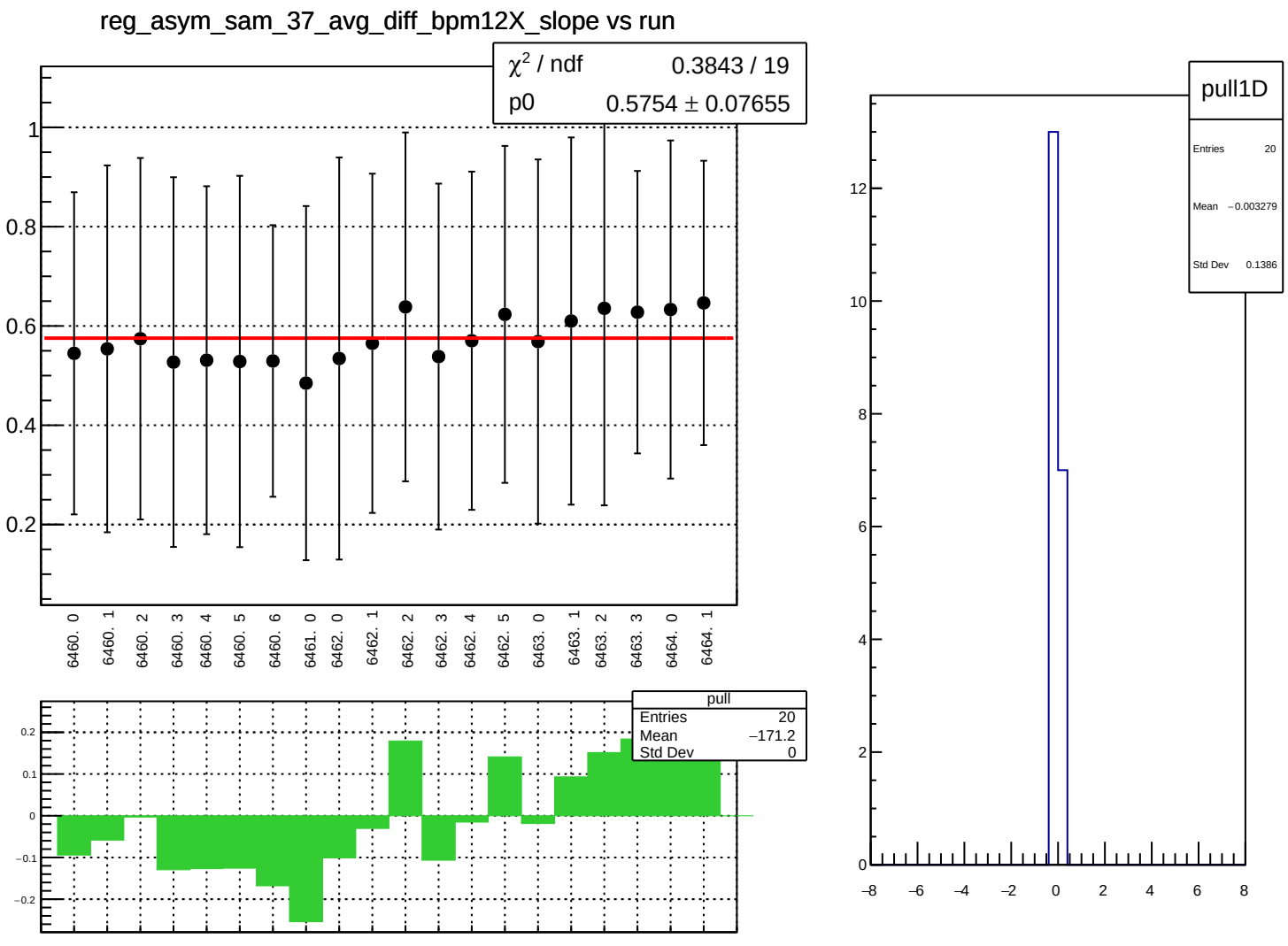

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 0.3546 / 19
p0 1.972 ± 1.55
14
12
10
8
6
4
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −37.67
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
pull1D
Entries 20
Mean 0.001434
Std Dev 0.1332
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

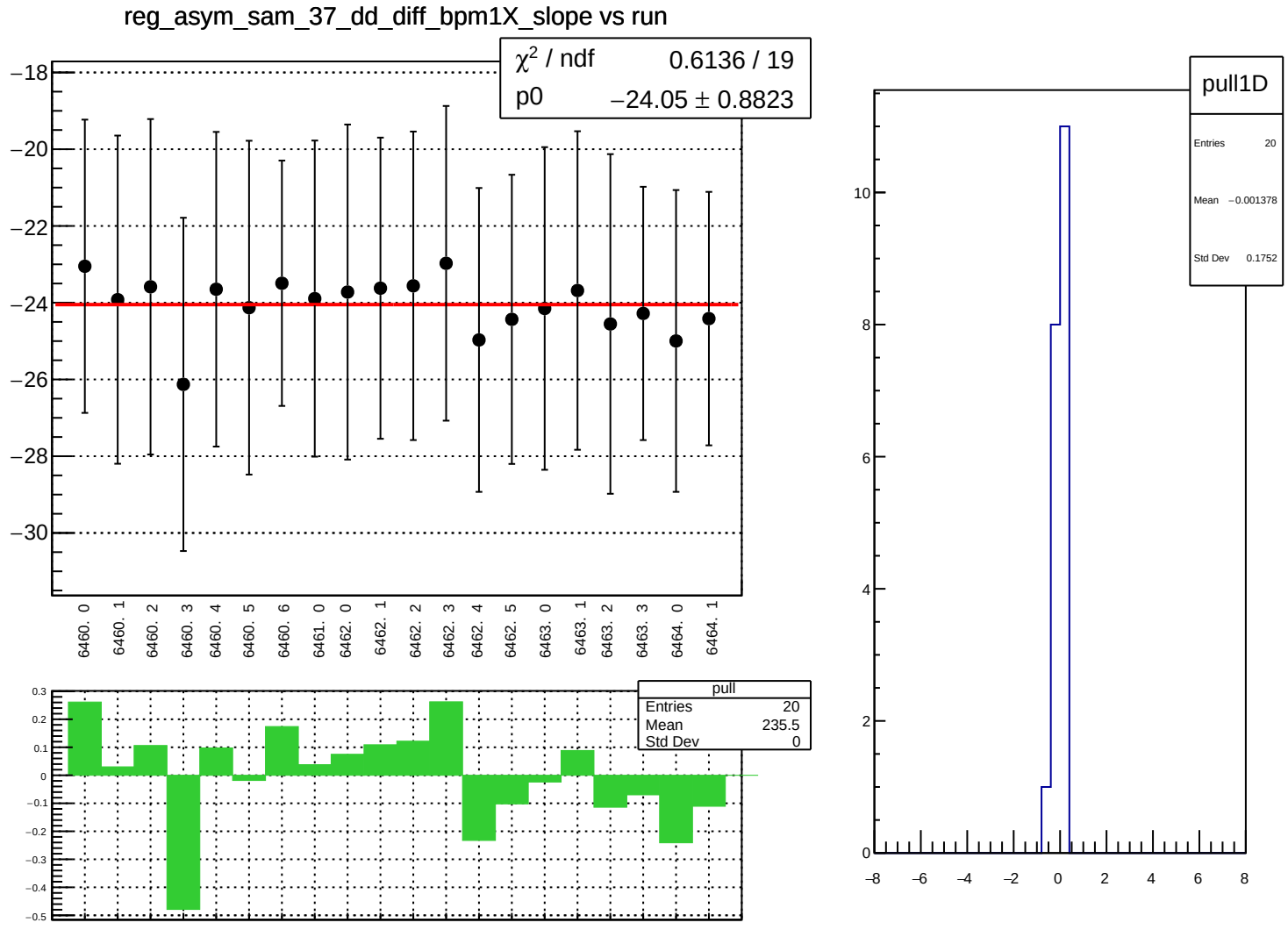

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4821 / 19
p0 0.4991 ± 1.809
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 50.45
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 20
Mean −0.001955
Std Dev 0.1552
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

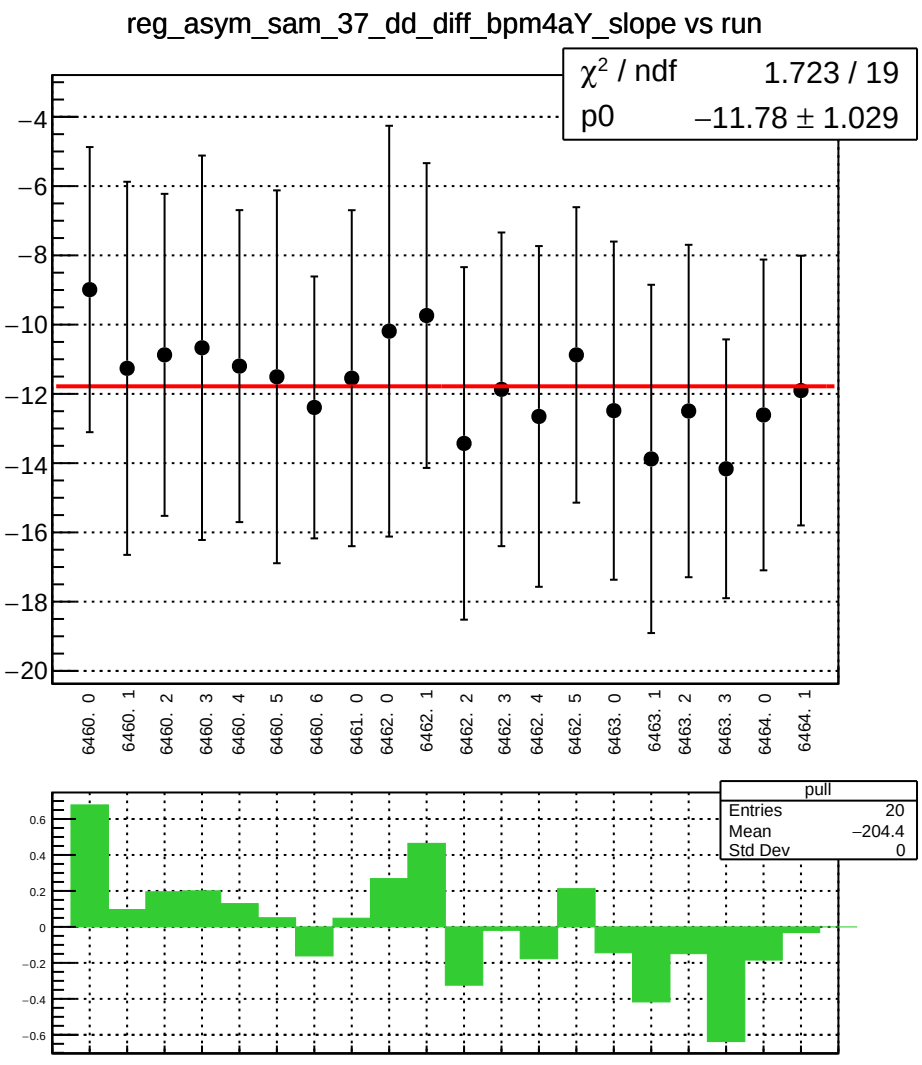

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.359 / 19
p0 −92.51 ± 1.537
−85
−90
−95
−100
−105
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −34.99
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.006801
Std Dev 0.2606
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

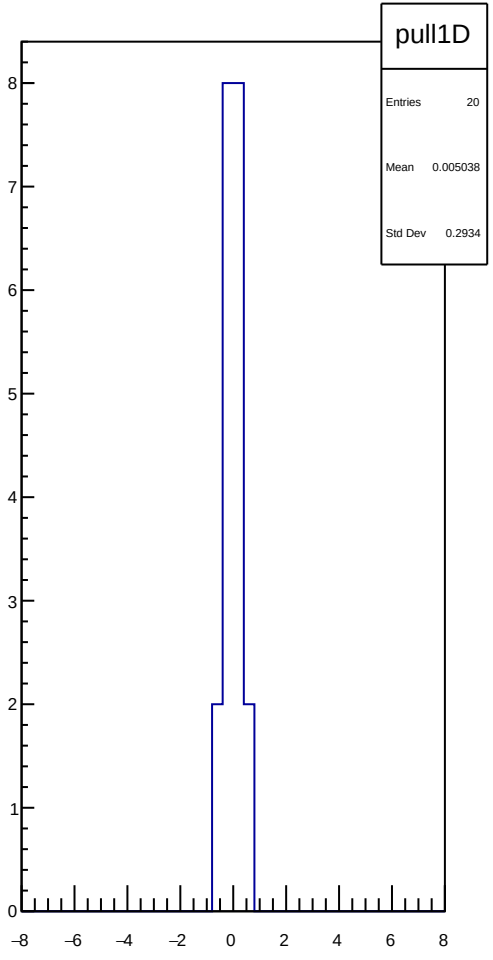

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4972 / 19
p0 11.16 ± 1.829
25
20
15
10
5
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 72.89
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2

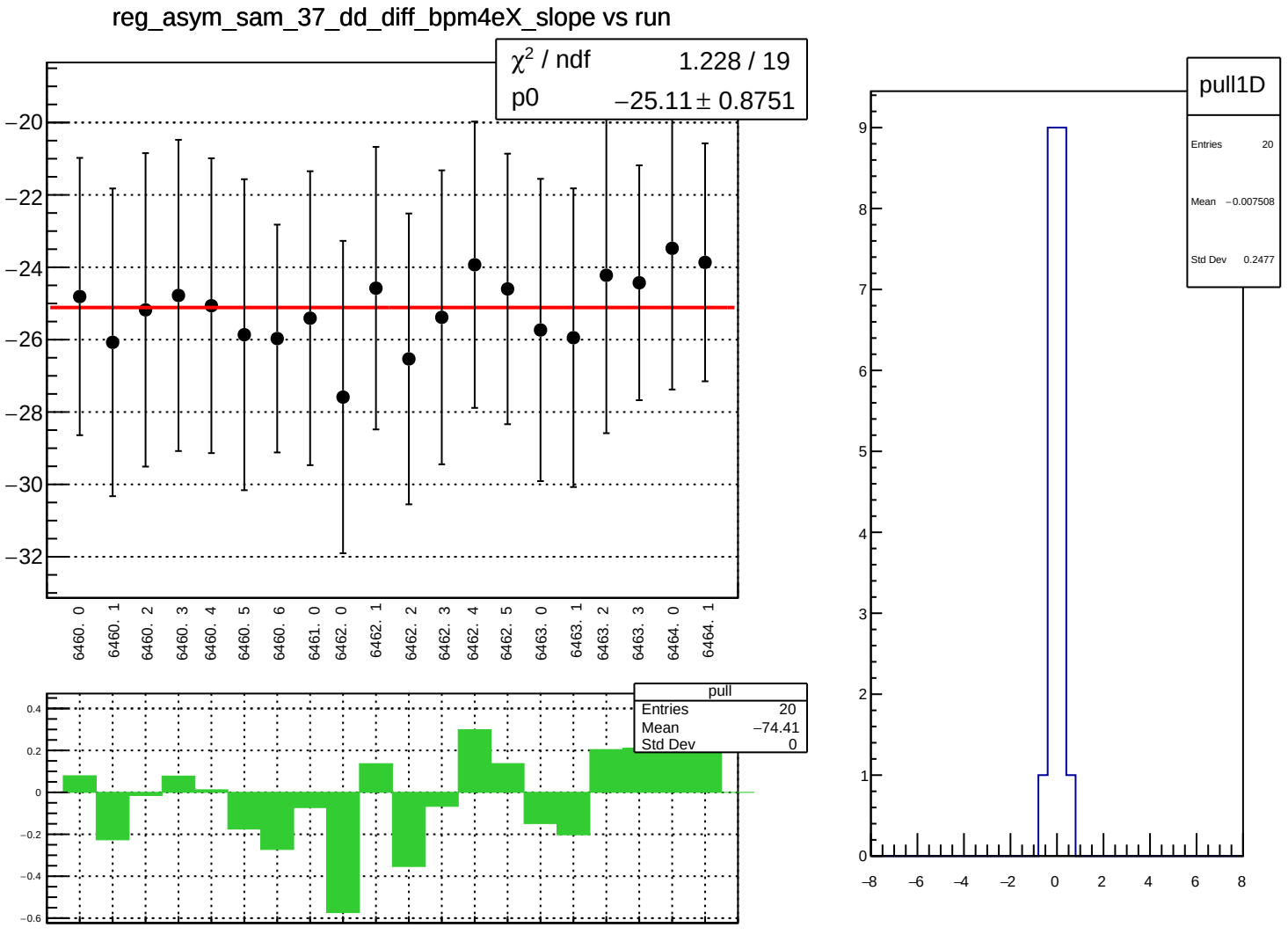

pull1D
Entries 20
Mean 0.0009322
Std Dev 0.1577
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

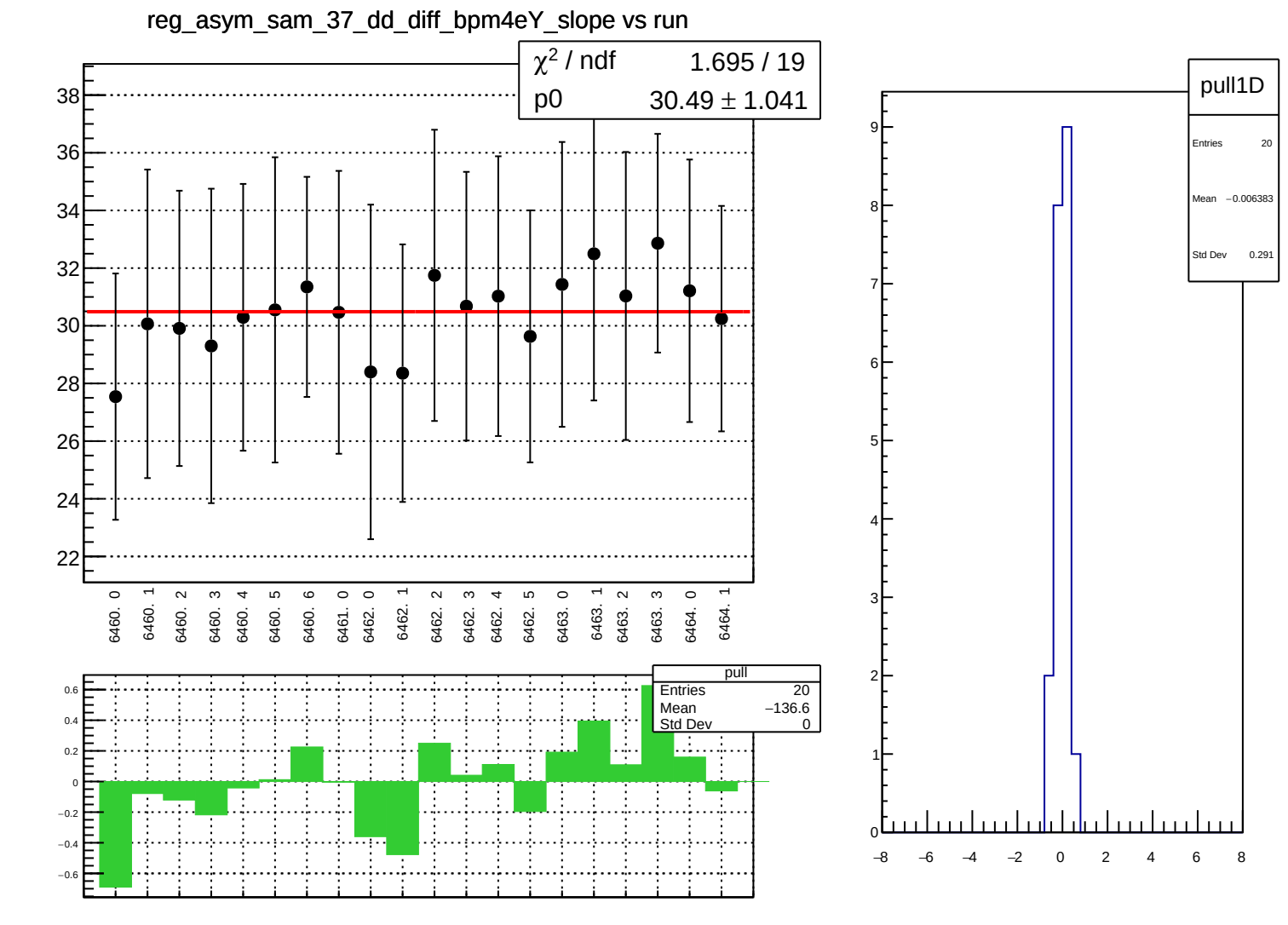

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 0.3843 / 19
p0 0.5754 ± 0.07655
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −171.2
Std Dev 0
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 20
Mean −0.003279
Std Dev 0.1386
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

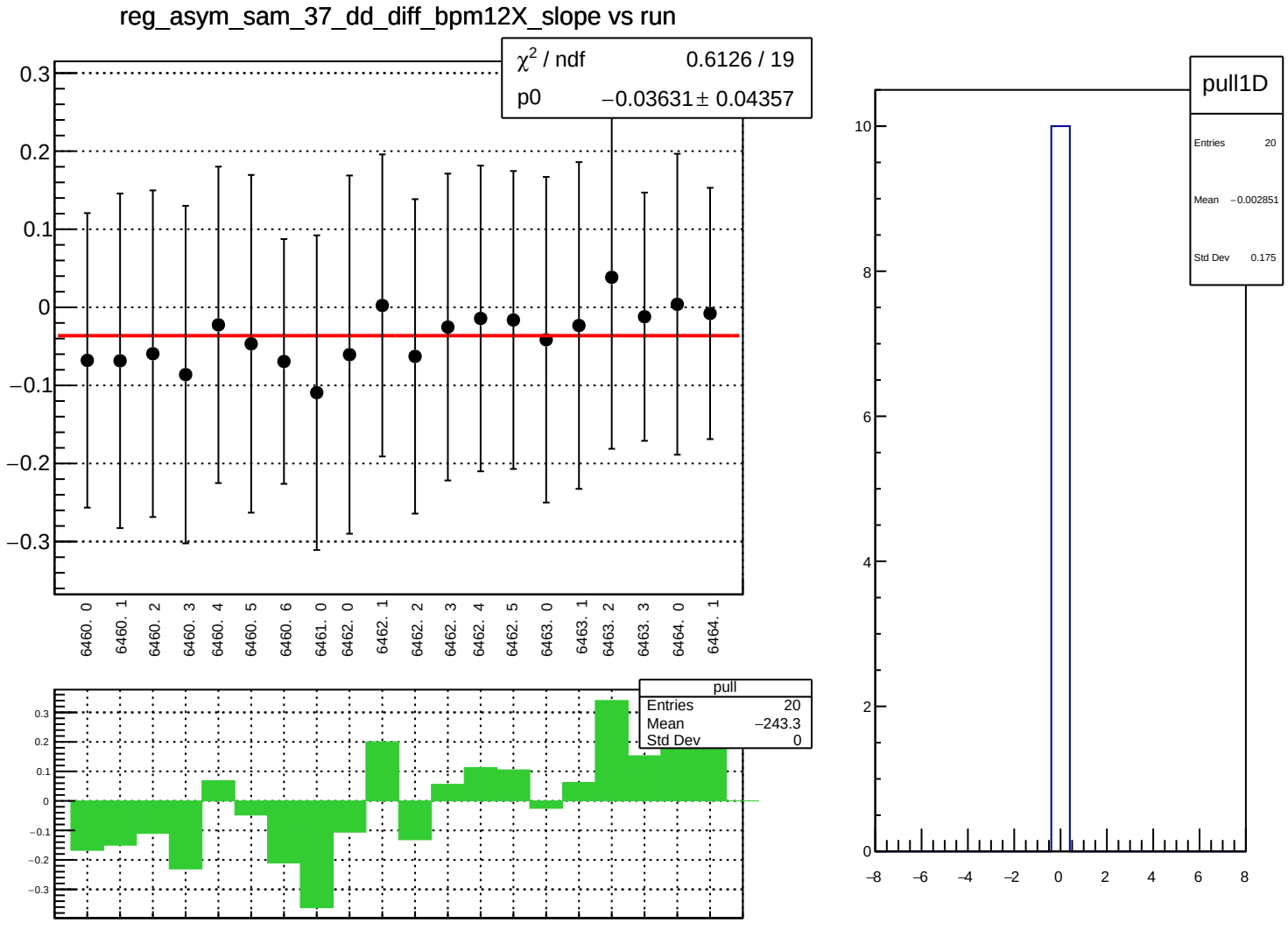

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 0.6136 / 19
p0 −24.05 ± 0.8823
−18
−20
−22
−24
−26
−28
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 235.5
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 20
Mean −0.001378
Std Dev 0.1752
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

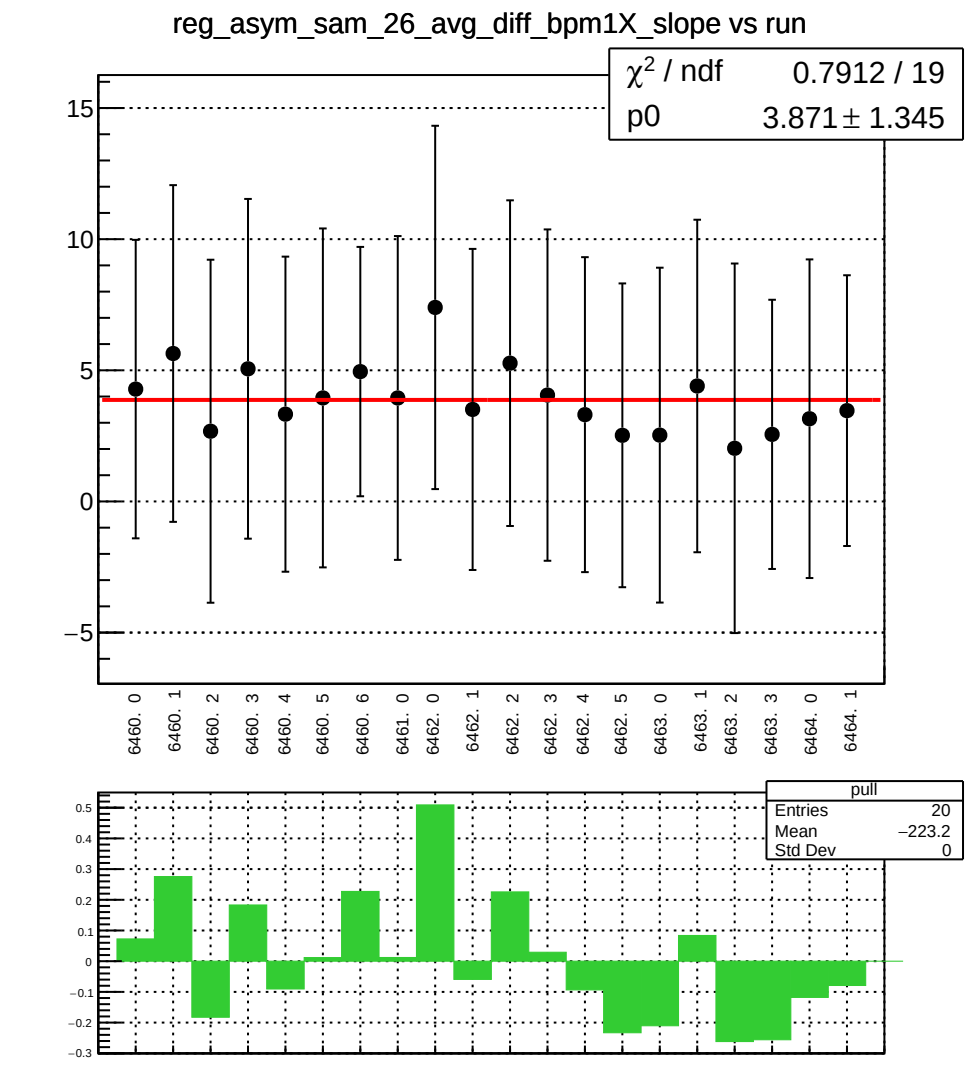

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.723 / 19
p0 −11.78 ± 1.029
−4
−6
−8
−10
−12
−14
−16
−18
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −204.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

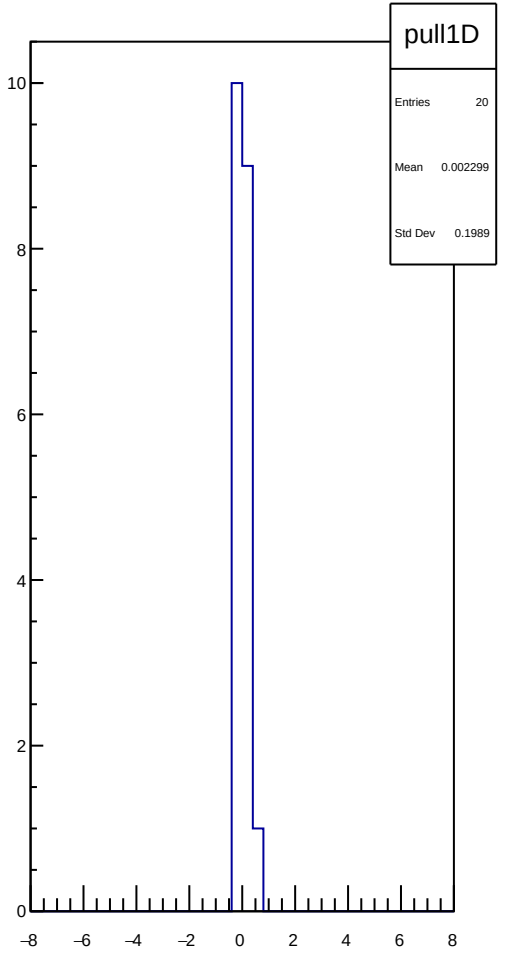

pull1D
Entries 20
Mean 0.005038
Std Dev 0.2934
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

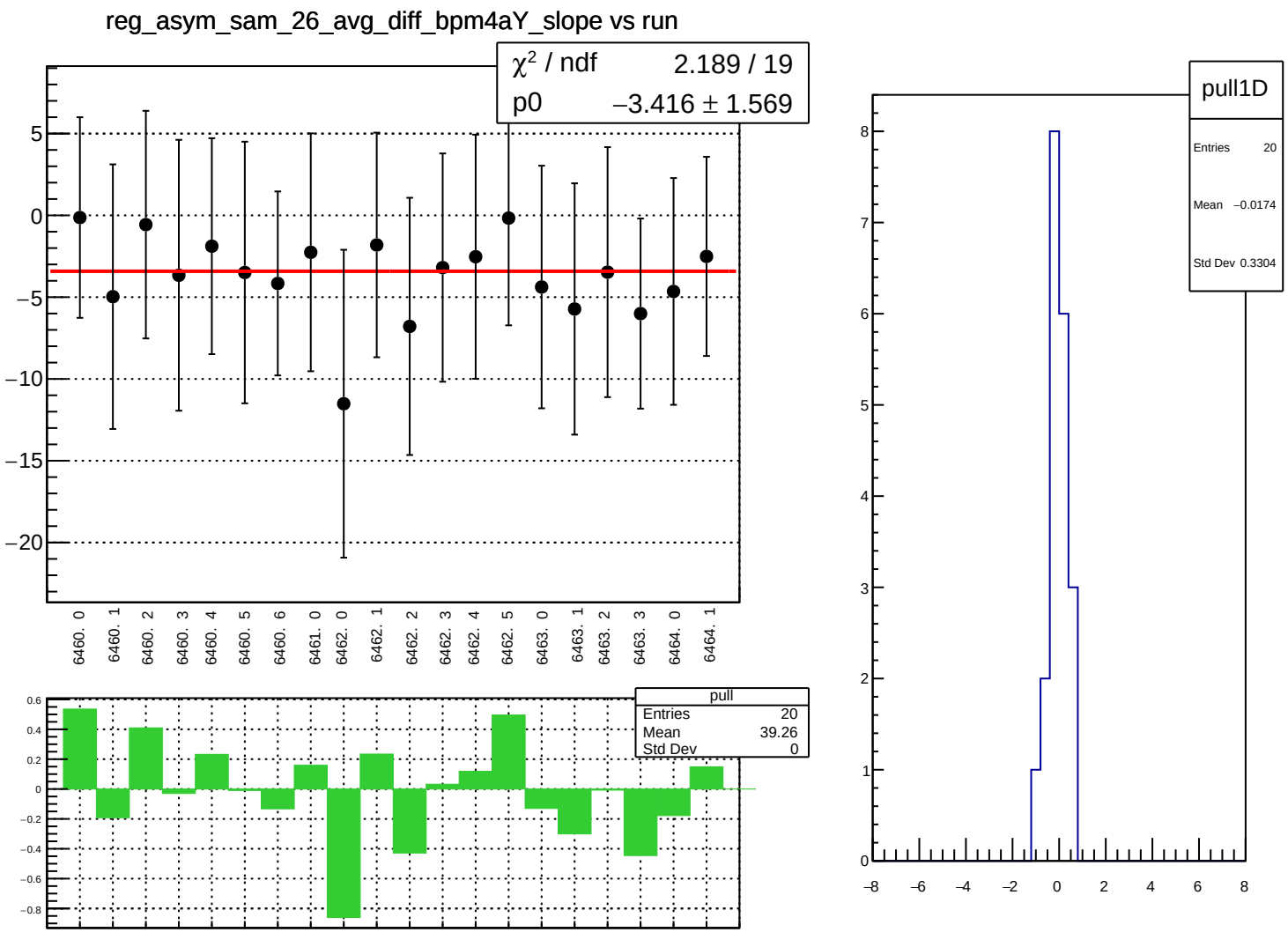

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.228 / 19
p0 −25.11 ± 0.8751
−20
−22
−24
−26
−28
−30
−32
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −74.41
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.007508
Std Dev 0.2477
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

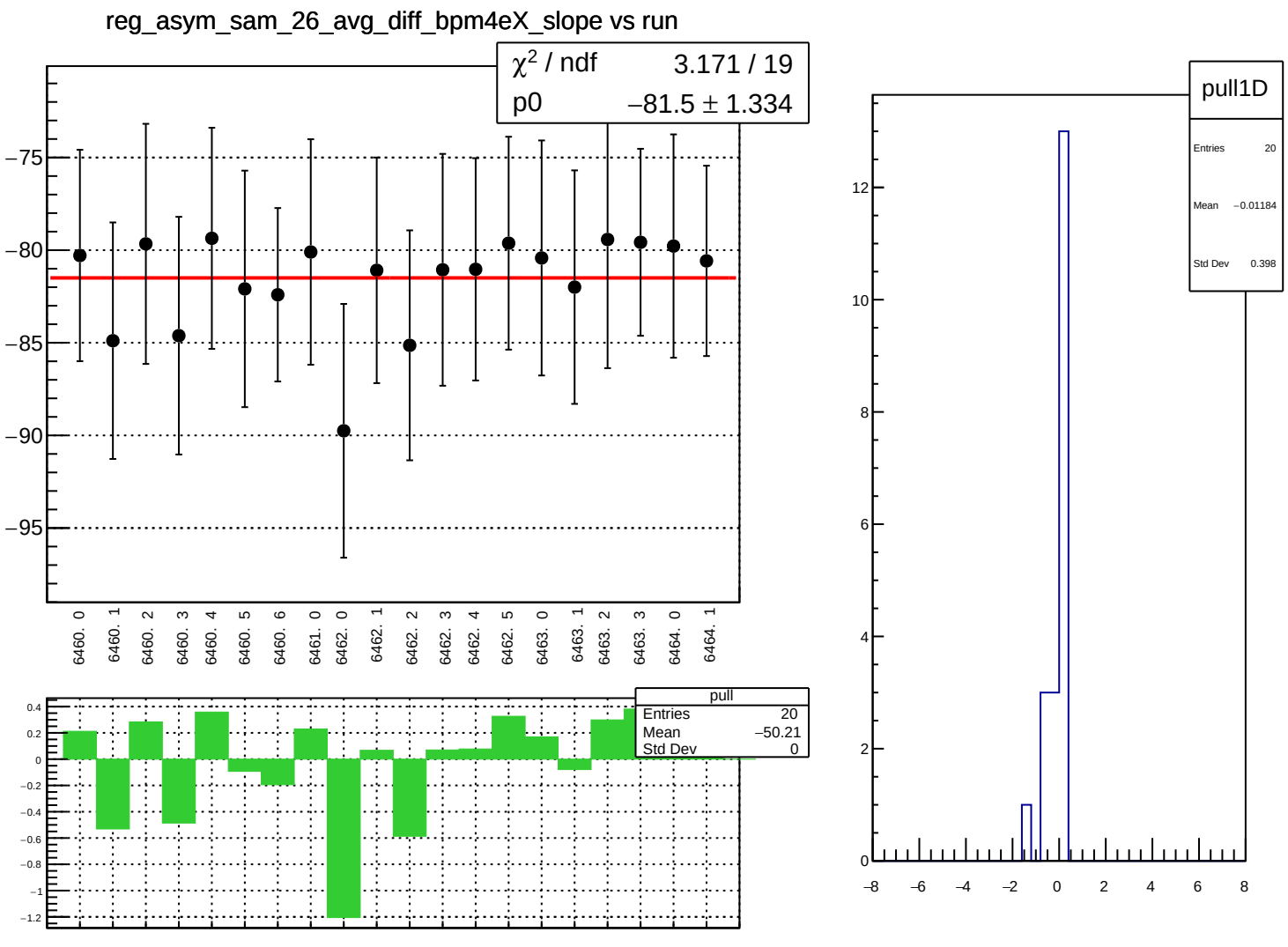

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.695 / 19
p0 30.49 ± 1.041
38
36
34
32
30
28
26
24
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −136.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.006383
Std Dev 0.291
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

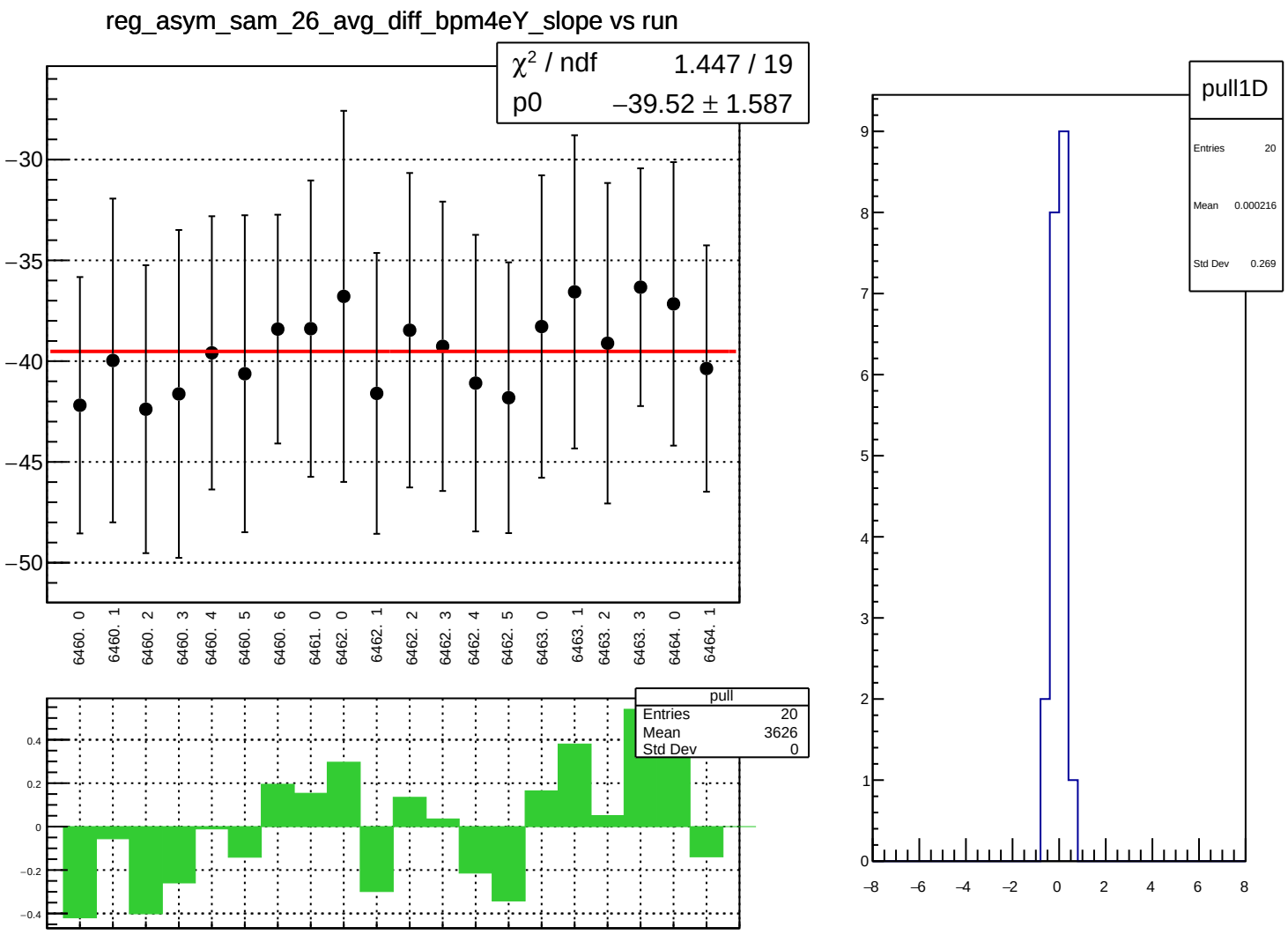

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6126 / 19
p0 −0.03631 ± 0.04357
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −243.3
Std Dev 0
pull1D
Entries 20
Mean −0.002851
Std Dev 0.175
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

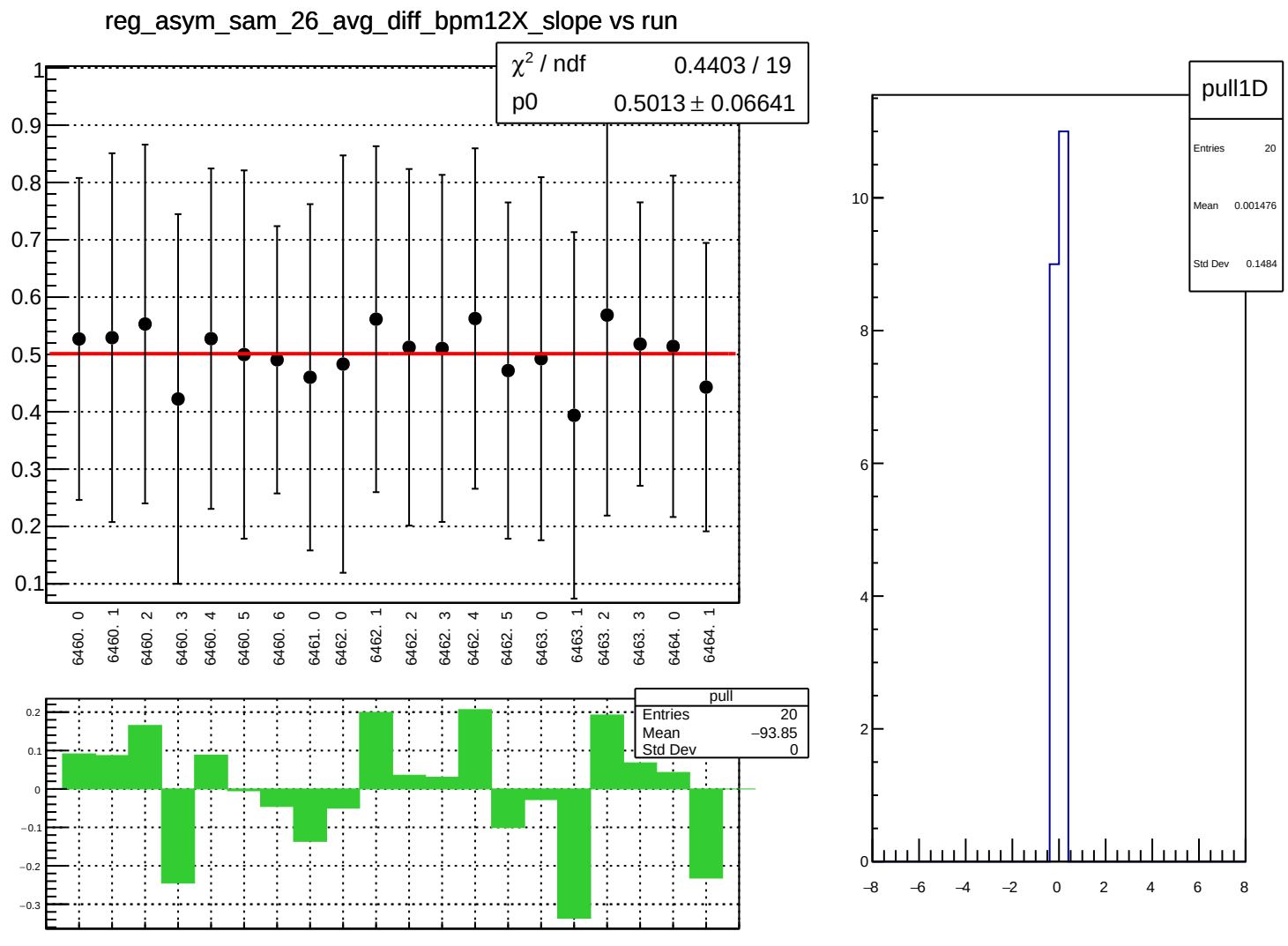

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 0.7912 / 19
p0 3.871 ± 1.345
15
10
5
0
−5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −223.2
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

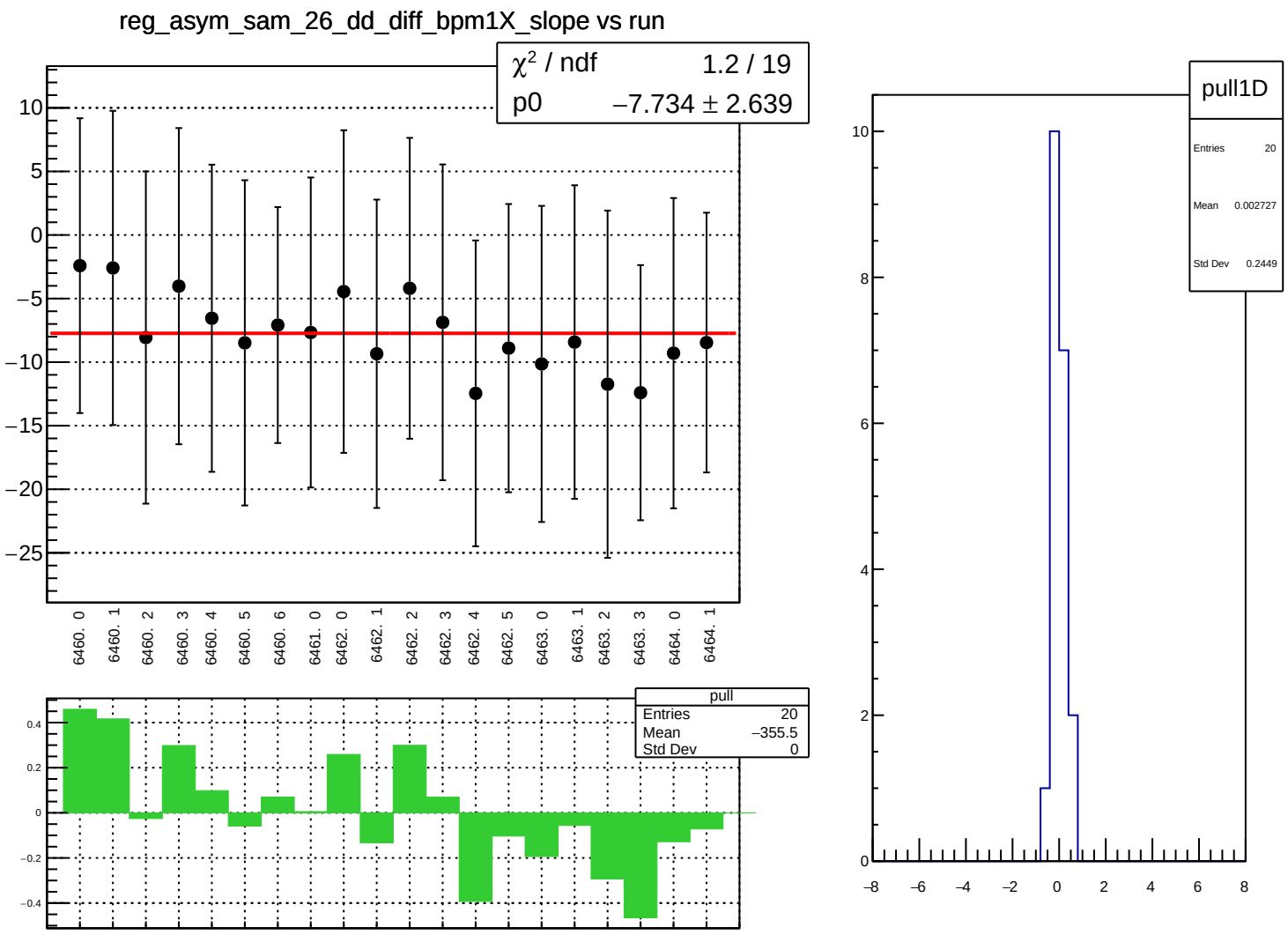

pull1D
Entries 20
Mean 0.002299
Std Dev 0.1989
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

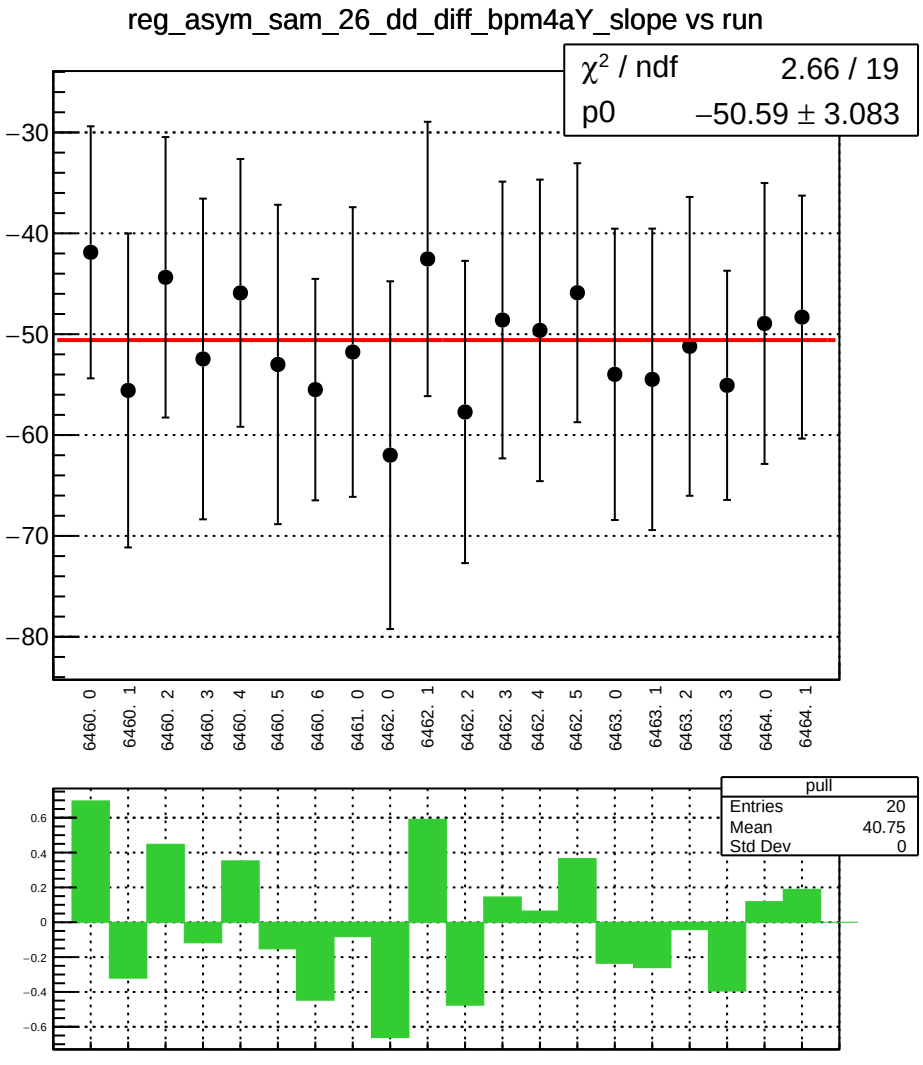

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.189 / 19
p0 −3.416 ± 1.569
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 39.26
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.0174
Std Dev 0.3304
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

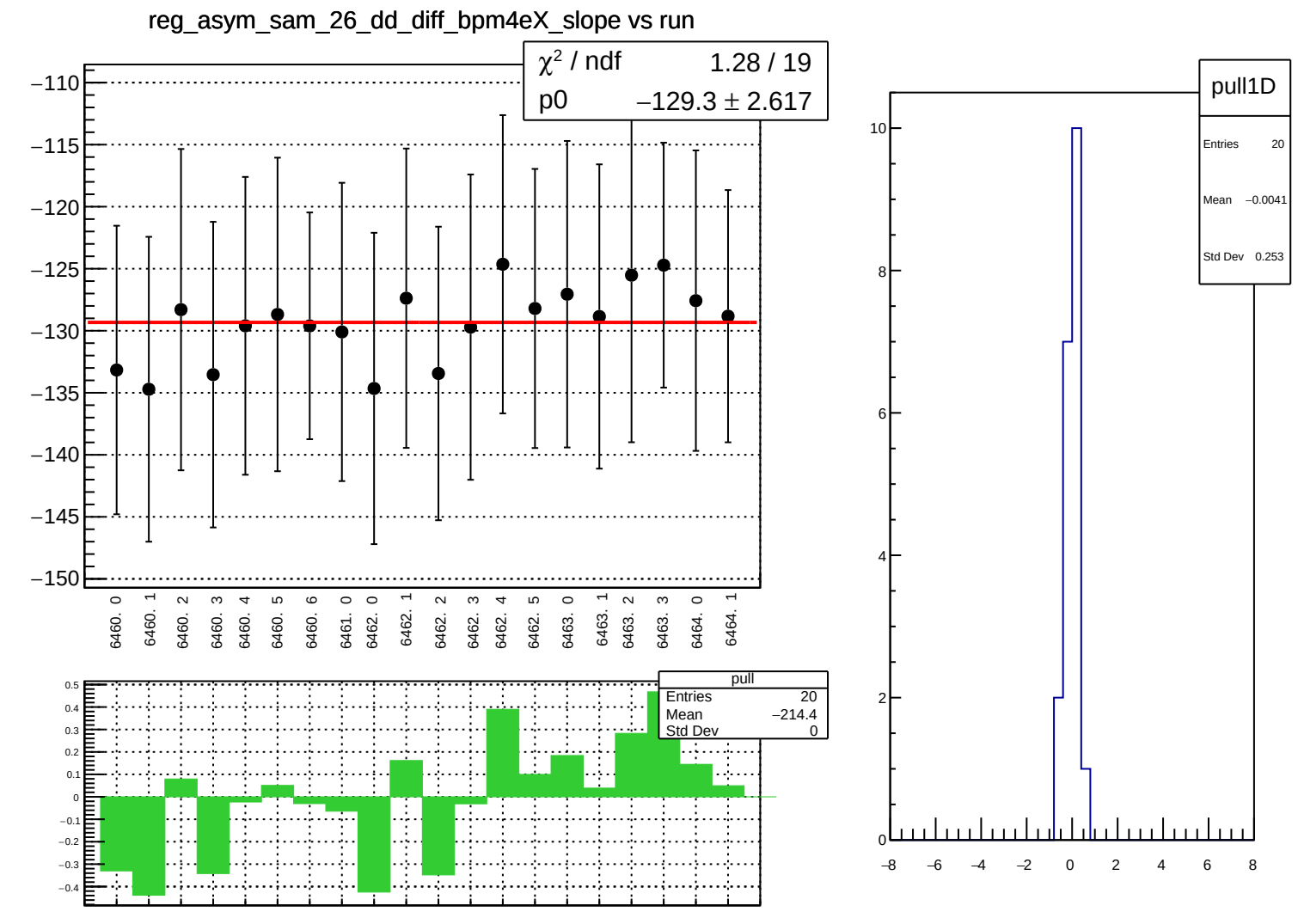

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.171 / 19
p0 −81.5 ± 1.334
−75
−80
−85
−90
−95
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.21
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 20
Mean −0.01184
Std Dev 0.398
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

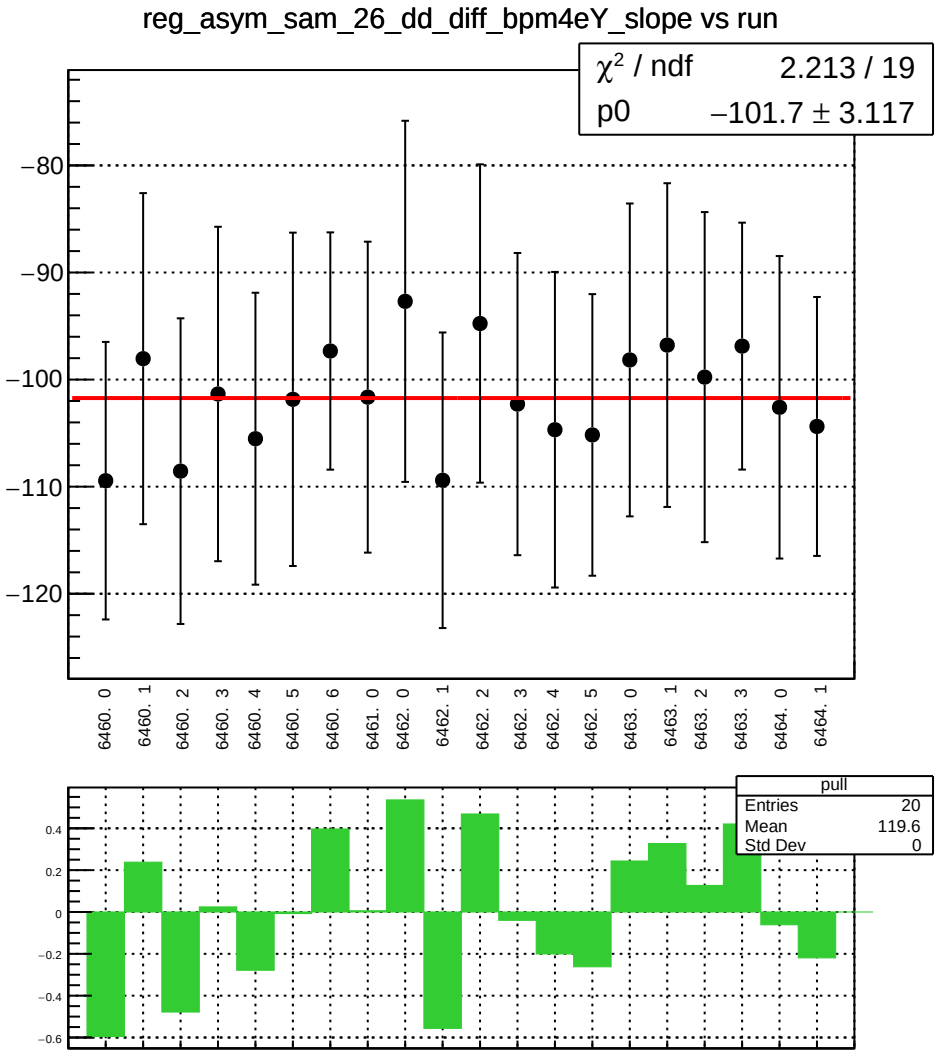

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.447 / 19
p0 −39.52 ± 1.587
−30
−35
−40
−45
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 3626
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean 0.000216
Std Dev 0.269
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

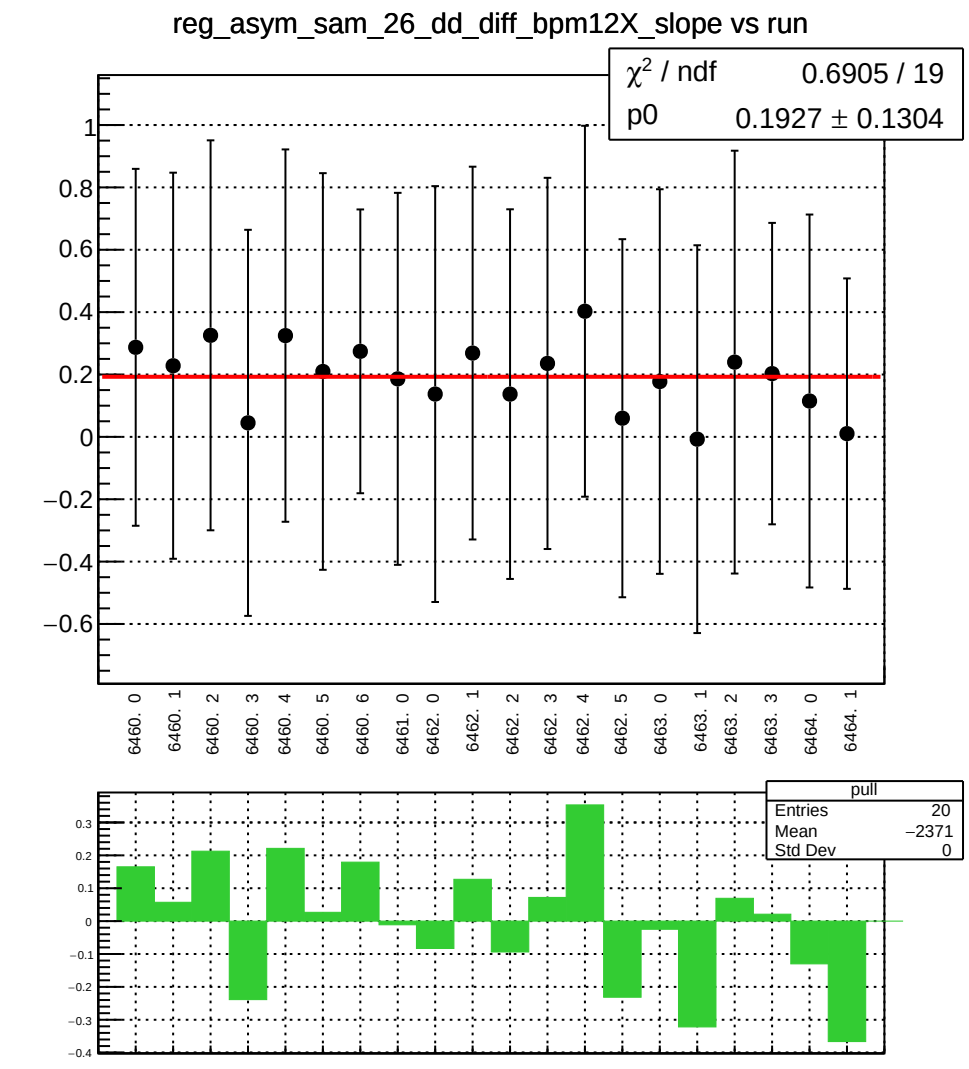

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 0.4403 / 19
p0 0.5013 ± 0.06641
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −93.85
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean 0.001476
Std Dev 0.1484
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

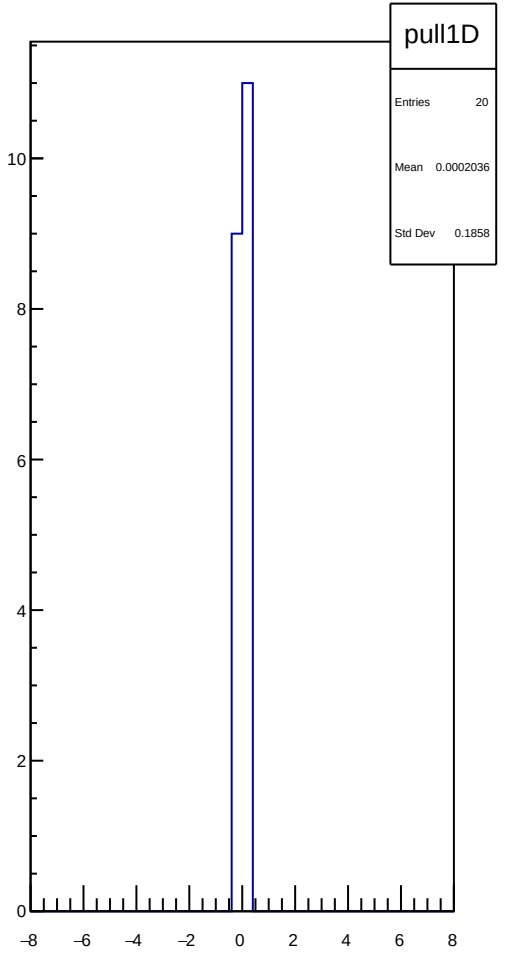

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.2 / 19
p0 −7.734 ± 2.639
10
5
0
−5
−10
−15
−20
−25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −355.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean 0.002727
Std Dev 0.2449
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

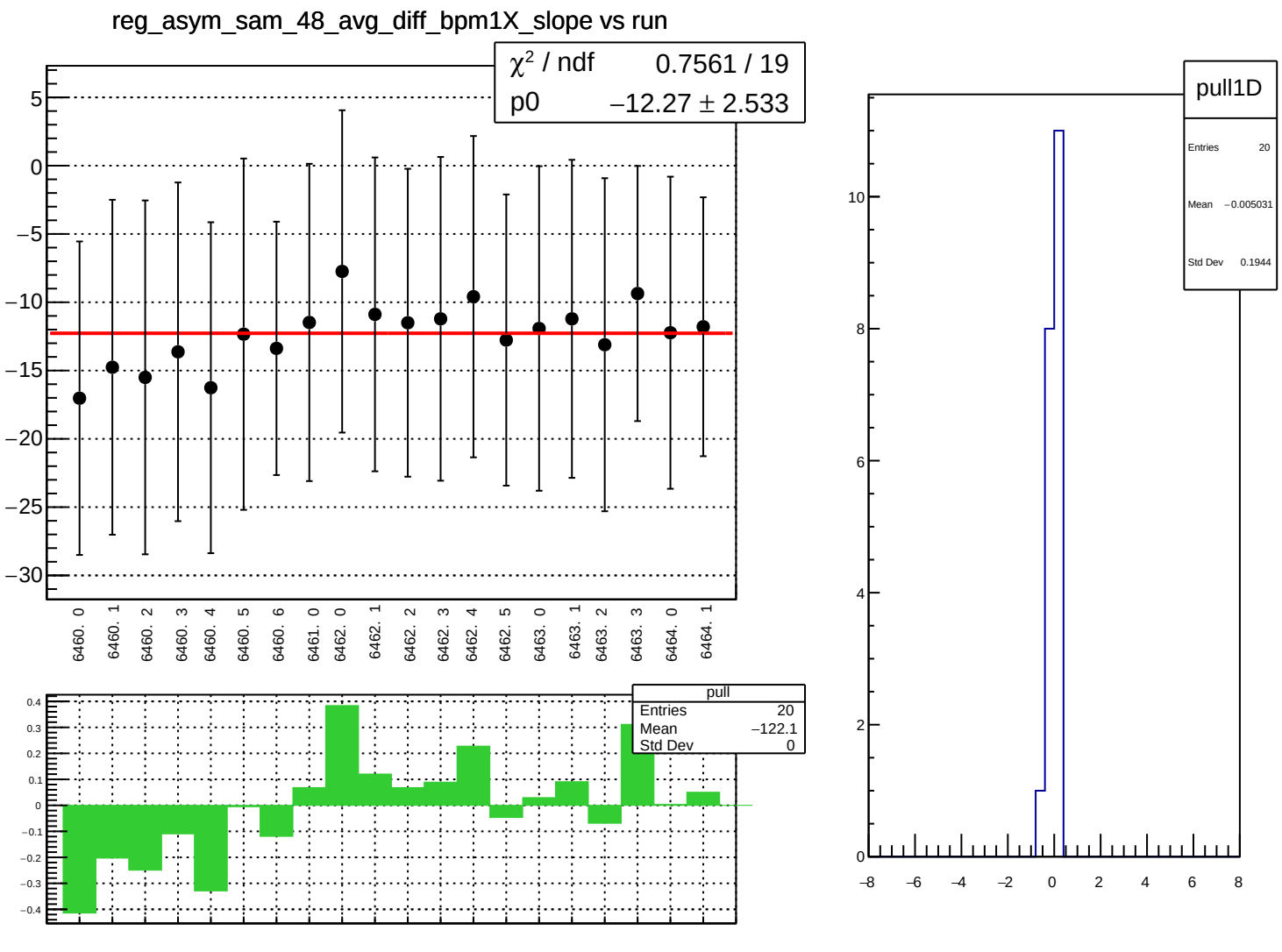

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.66 / 19
p0 −50.59 ± 3.083
−30
−40
−50
−60
−70
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 40.75
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.011
Std Dev 0.3645
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

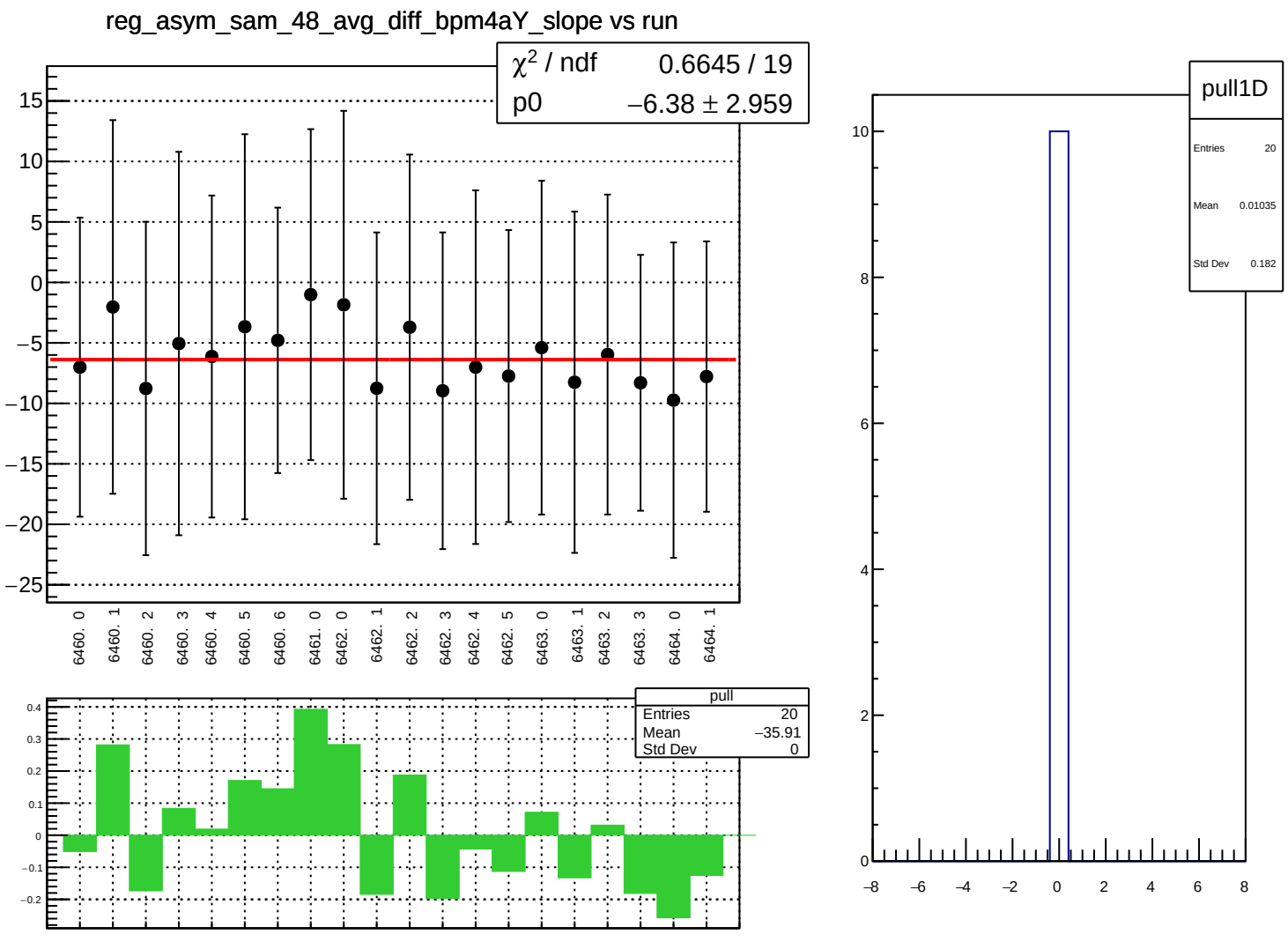

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.28 / 19
p0 −129.3 ± 2.617
−110
−115
−120
−125
−130
−135
−140
−145
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −214.4
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 20
Mean −0.0041
Std Dev 0.253
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

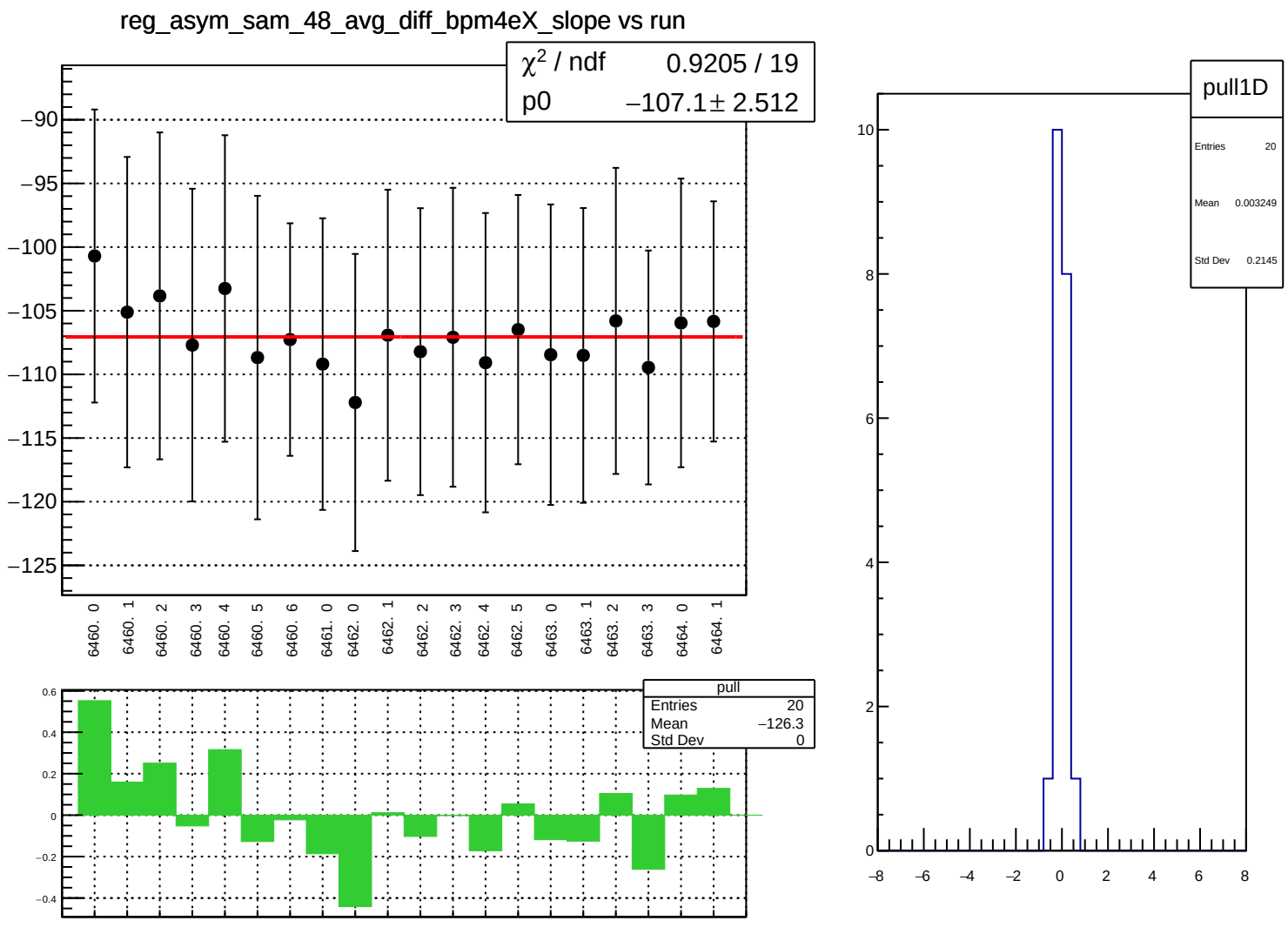

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.213 / 19
p0 −101.7 ± 3.117
−80
−90
−100
−110
−120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 119.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.004438
Std Dev 0.3326
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

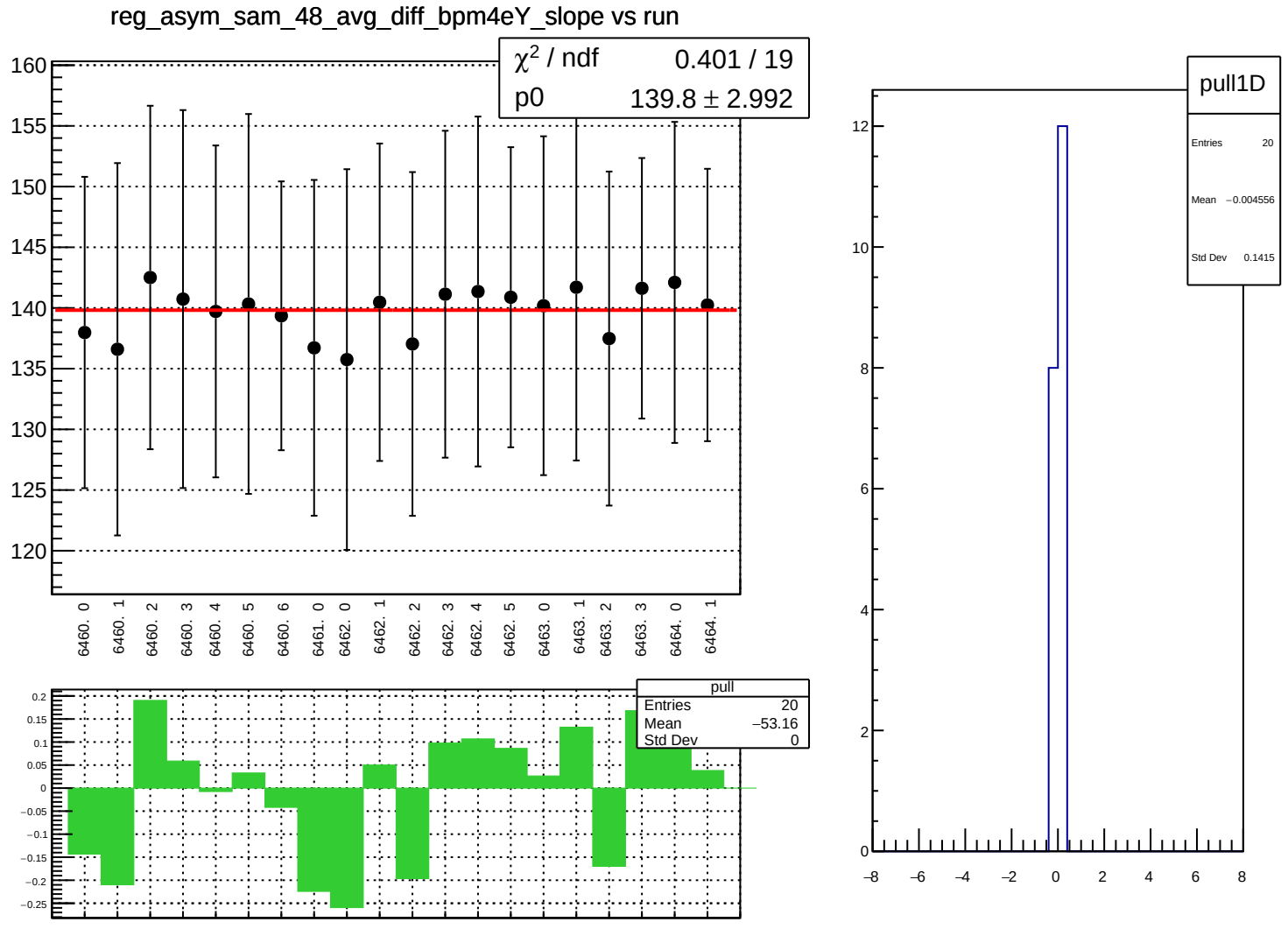

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6905 / 19
p0 0.1927 ± 0.1304
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2371
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

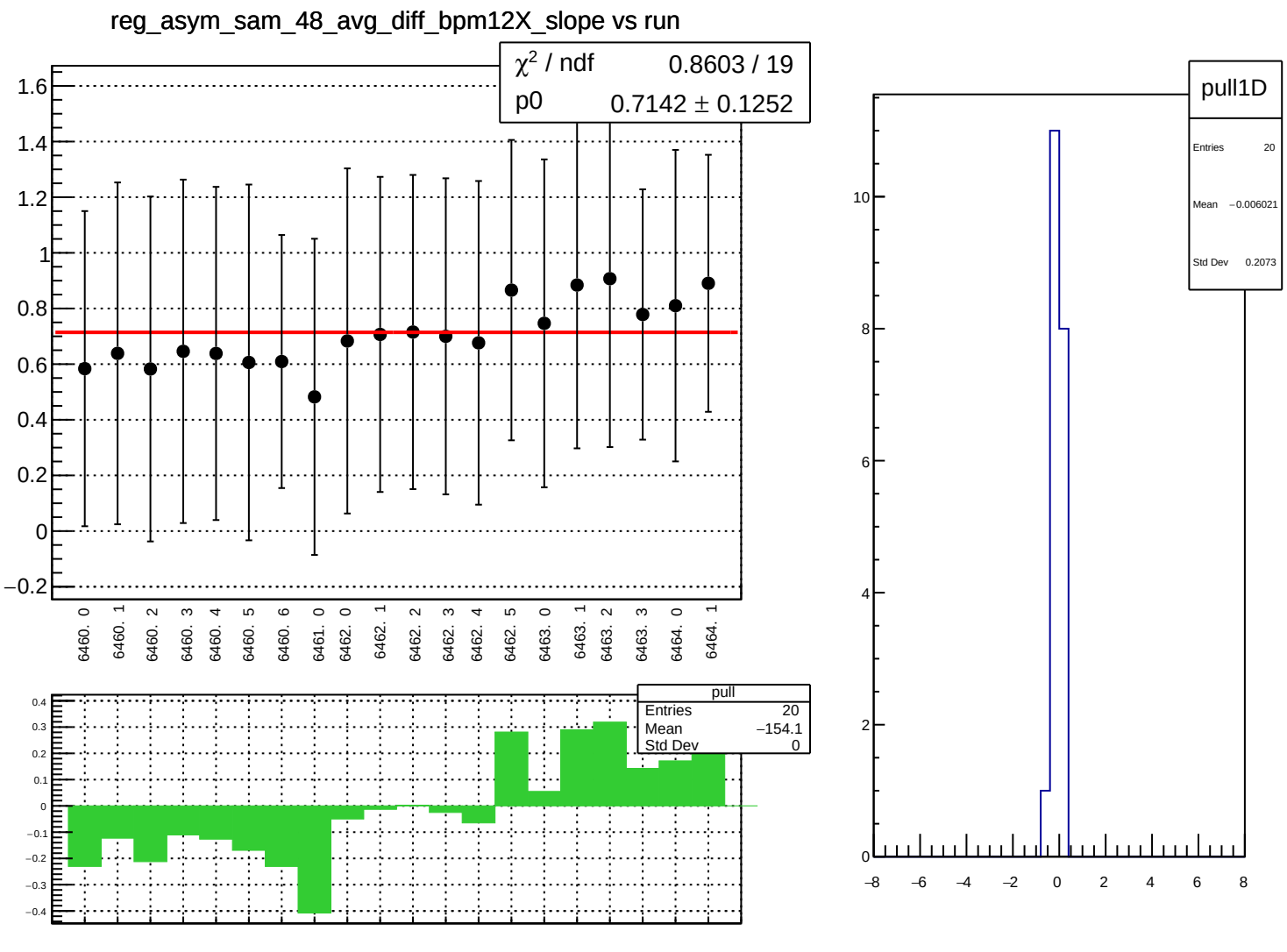

pull1D
Entries 20
Mean 0.0002036
Std Dev 0.1858
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

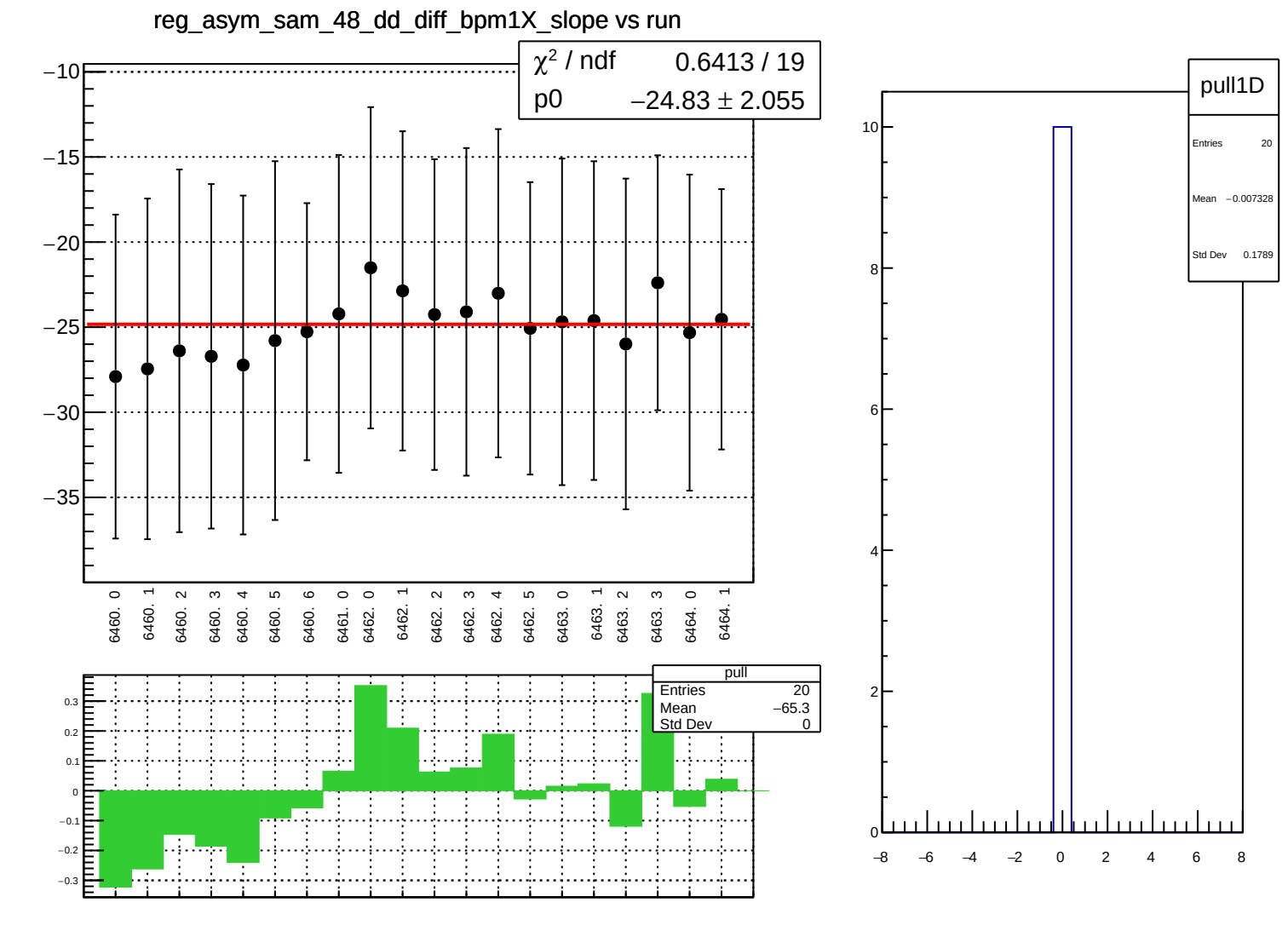

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 0.7561 / 19
p0 −12.27 ± 2.533
5
0
−5
−10
−15
−20
−25
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −122.1
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 20
Mean −0.005031
Std Dev 0.1944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

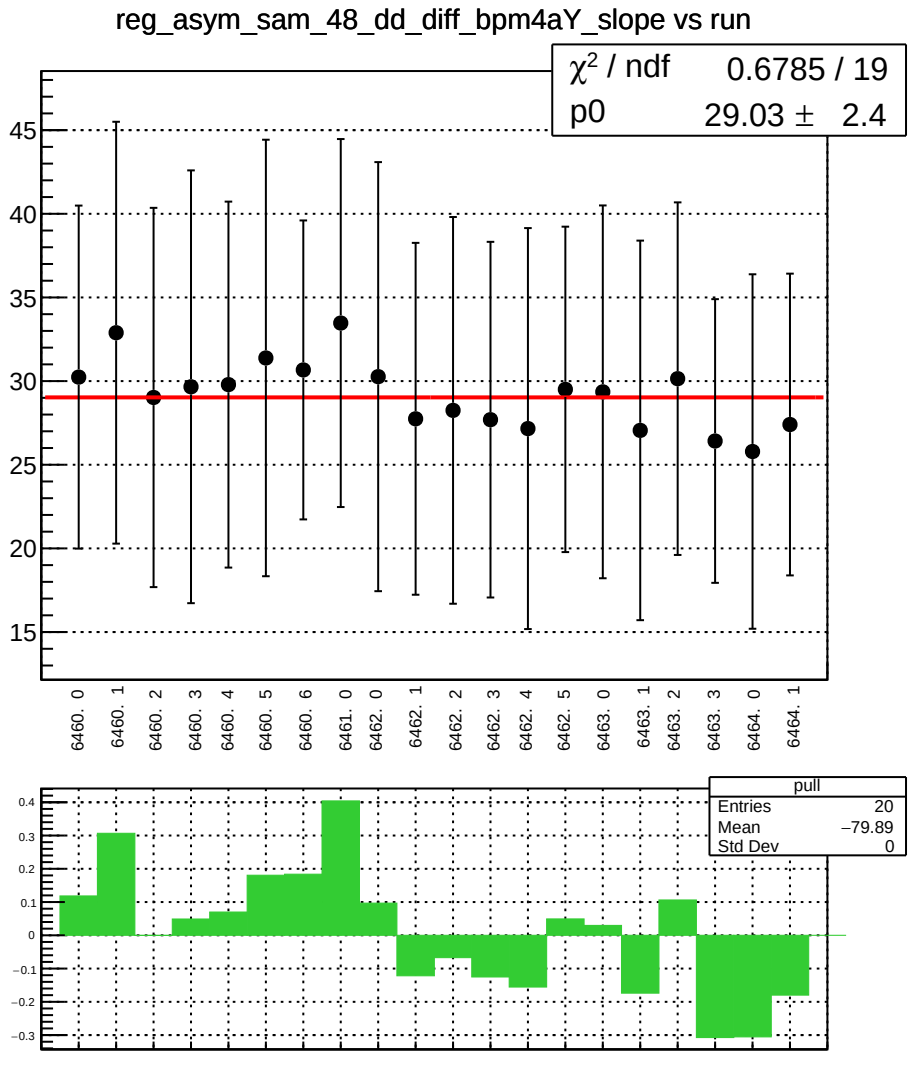

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.6645 / 19
p0 −6.38 ± 2.959
15
10
5
0
−5
−10
−15
−20
−25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −35.91
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 20
Mean 0.01035
Std Dev 0.182
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

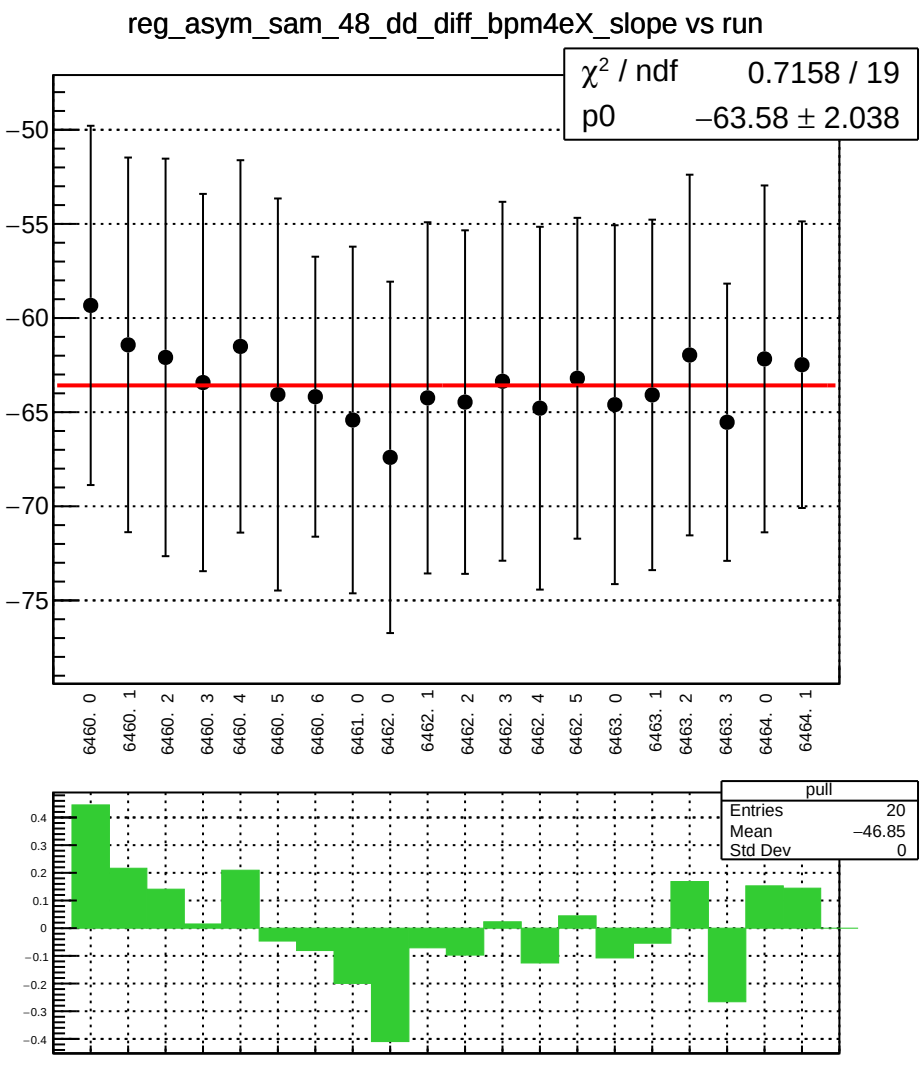

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.9205 / 19
p0 −107.1± 2.512
−90
−95
−100
−105
−110
−115
−120
−125
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −126.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean 0.003249
Std Dev 0.2145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

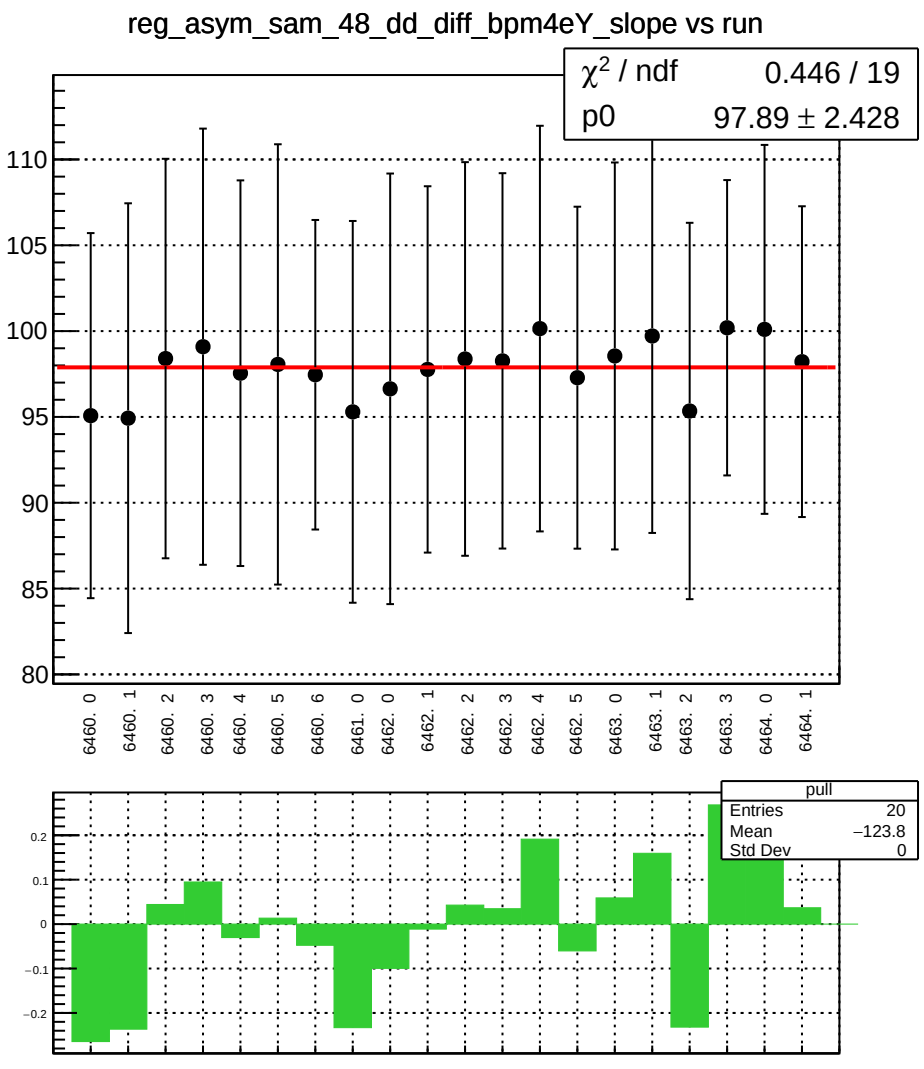

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.401 / 19
p0 139.8 ± 2.992
160
155
150
145
140
135
130
125
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −53.16
Std Dev 0
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 20
Mean −0.004556
Std Dev 0.1415
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

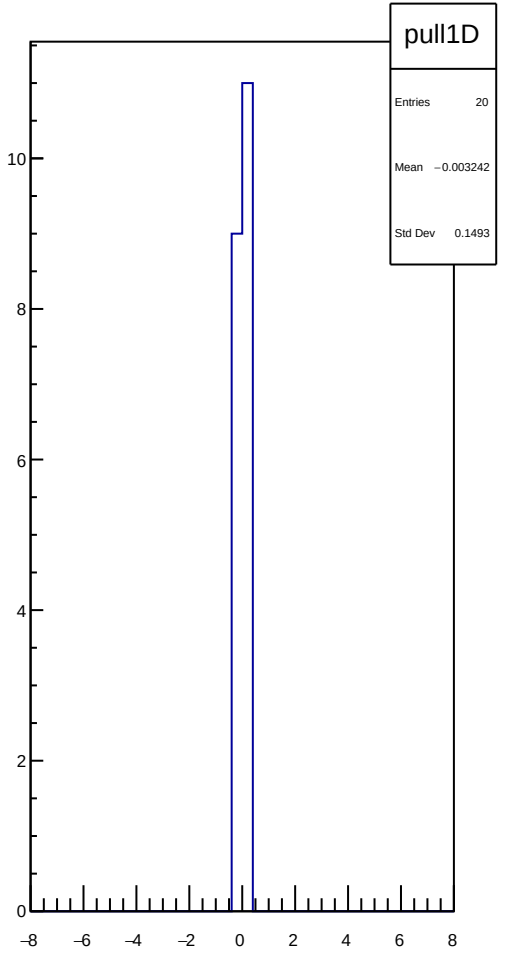

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8603 / 19
p0 0.7142 ± 0.1252
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −154.1
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 20
Mean −0.006021
Std Dev 0.2073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

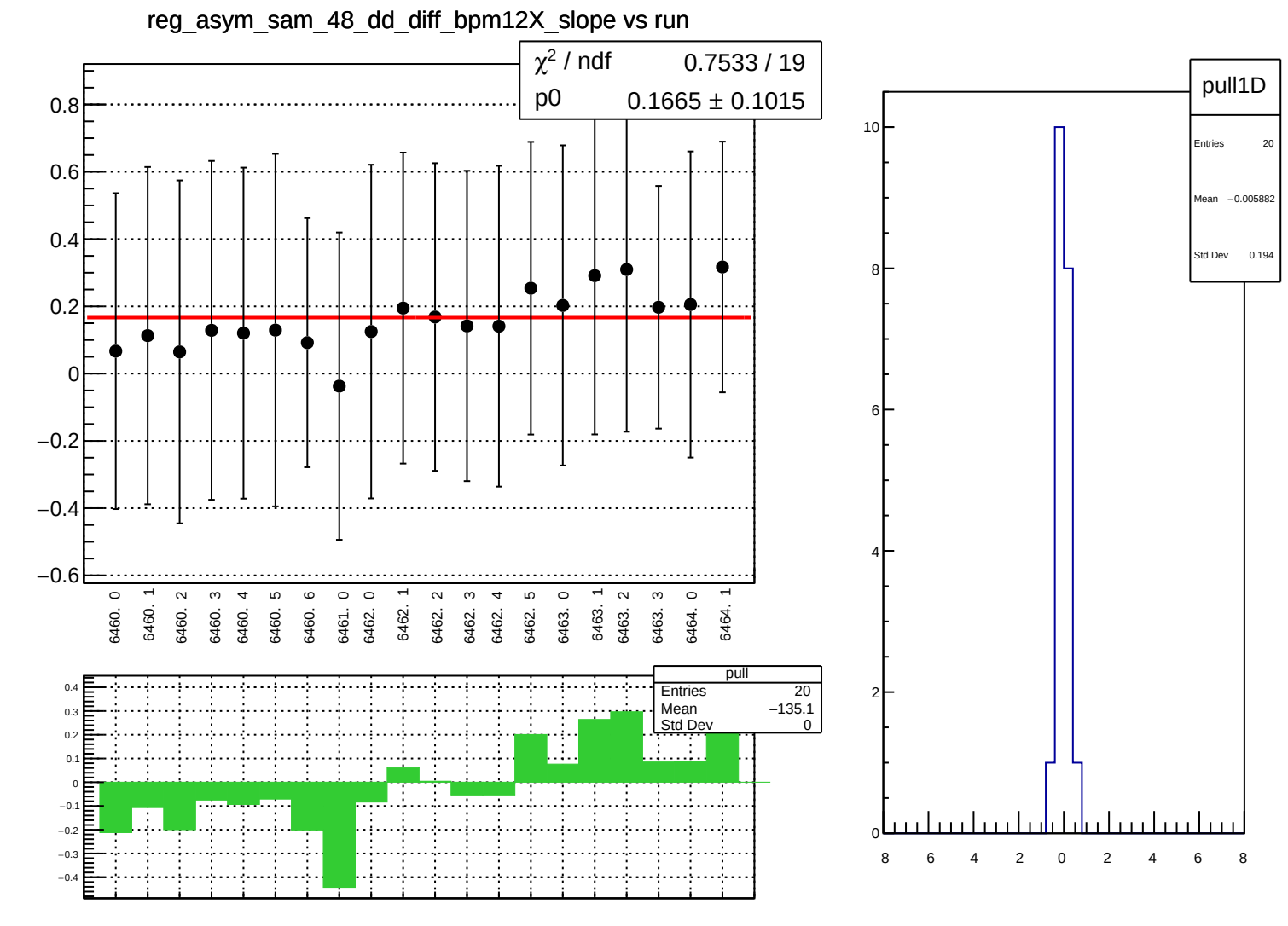

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.6413 / 19
p0 −24.83 ± 2.055
−10
−15
−20
−25
−30
−35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −65.3
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean −0.007328
Std Dev 0.1789
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

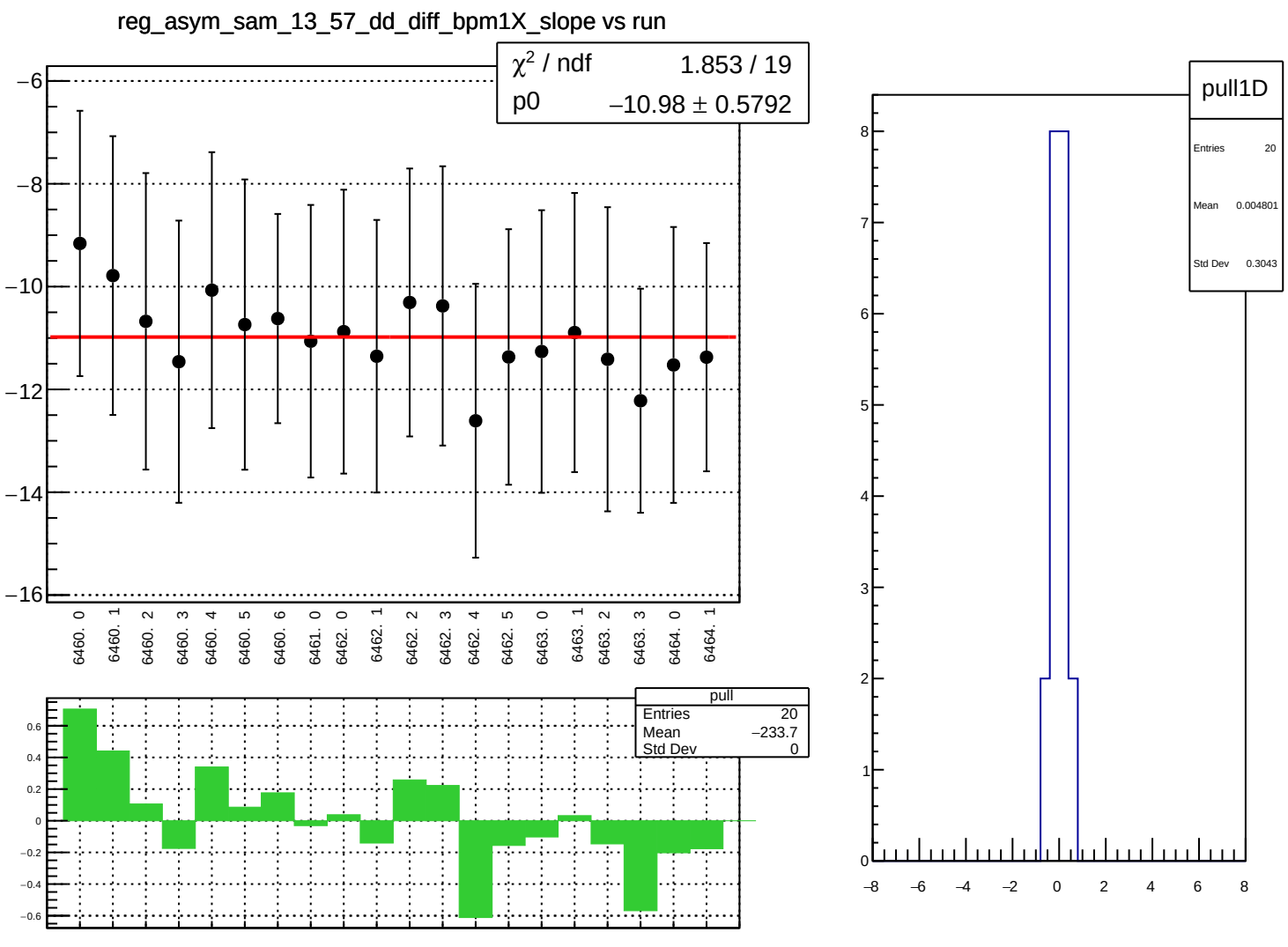

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.6785 / 19
p0 29.03 ± 2.4
45
40
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −79.89
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean 0.007877
Std Dev 0.184
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

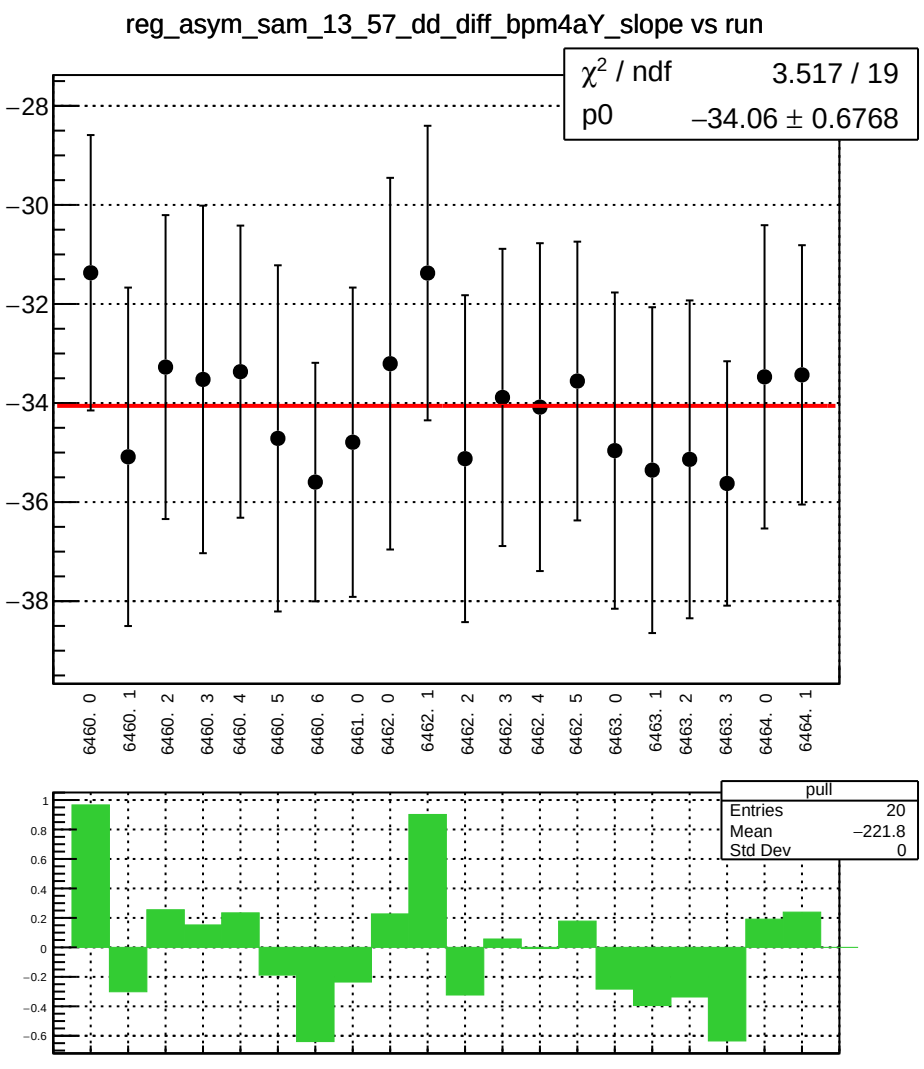

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.7158 / 19
p0 −63.58 ± 2.038
−50
−55
−60
−65
−70
−75
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −46.85
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 20
Mean 0.005203
Std Dev 0.1891
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

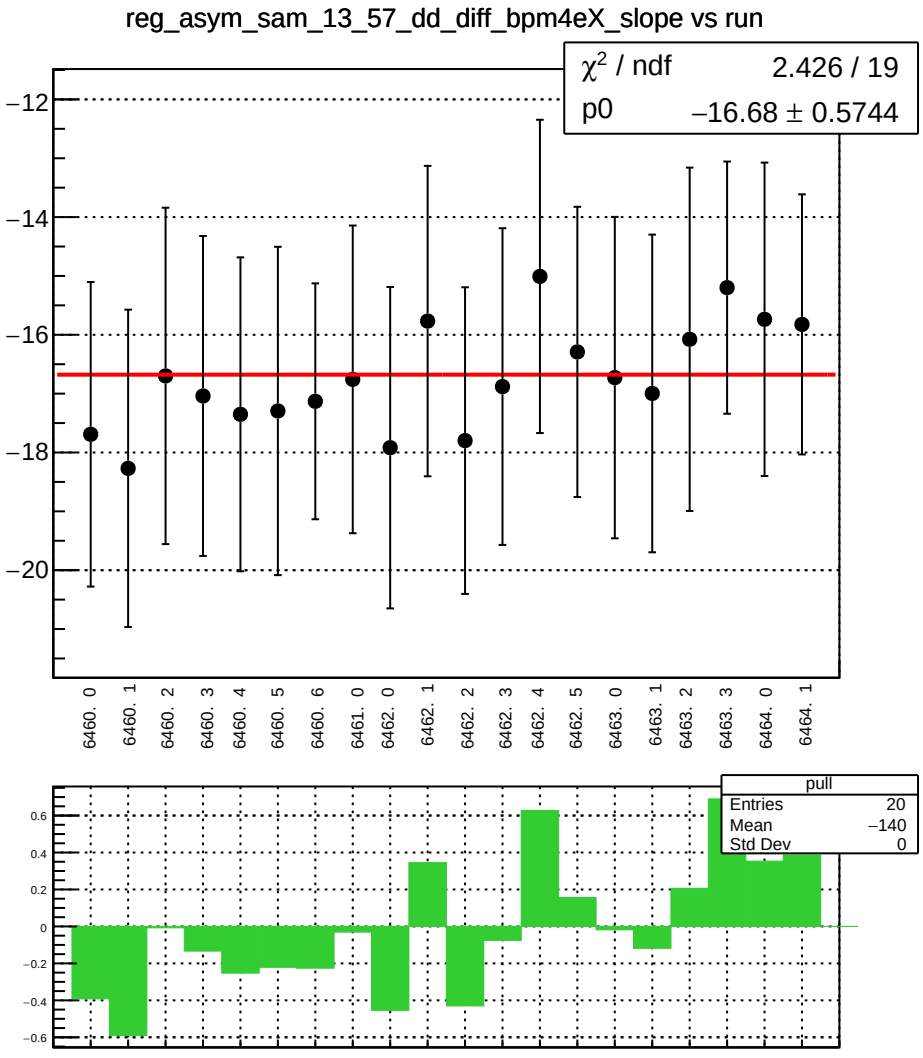

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.446 / 19
p0 97.89 ± 2.428
110
105
100
95
90
85
80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −123.8
Std Dev 0
0.2
0.1
0
−0.1
−0.2

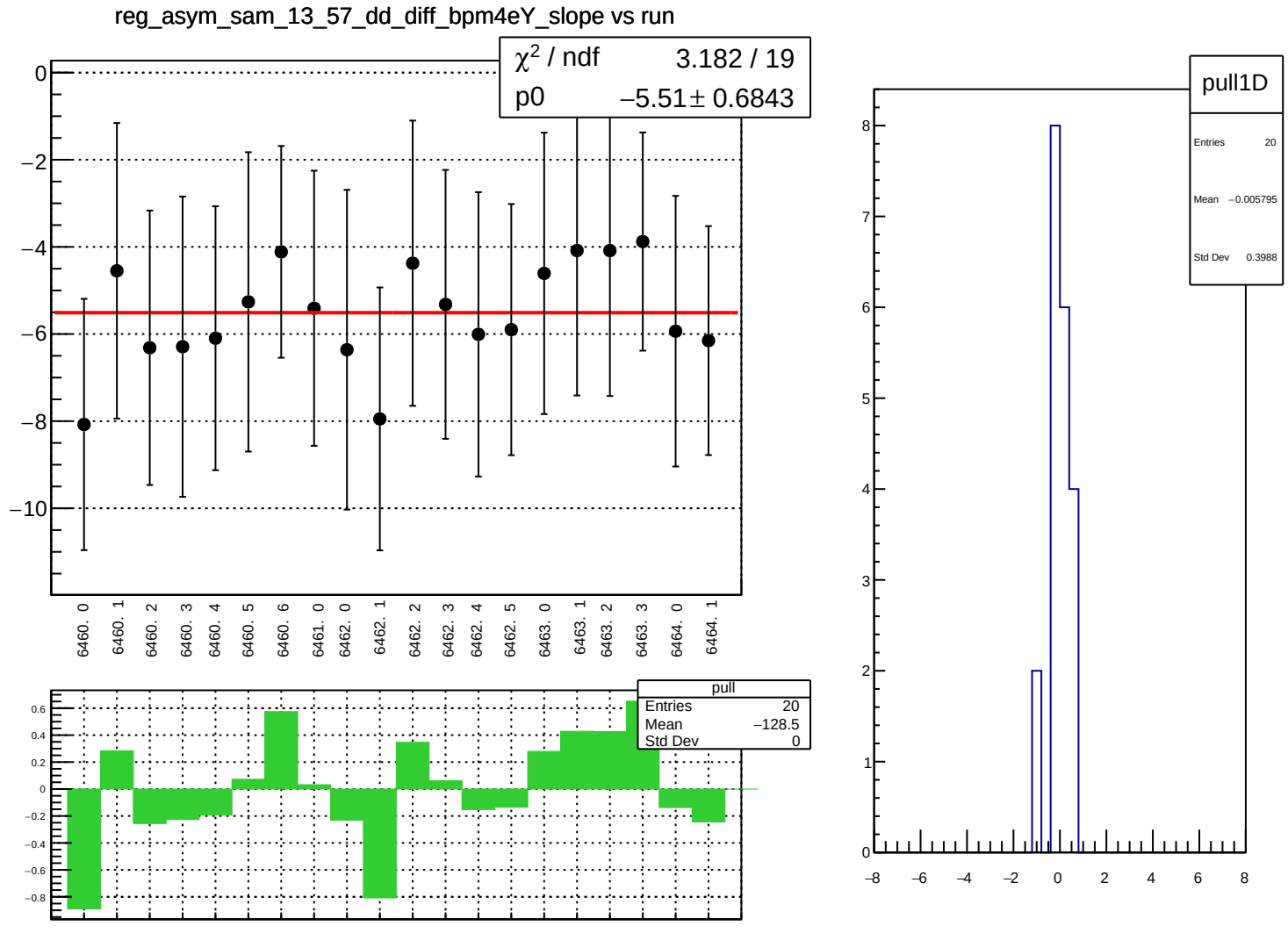

pull1D
Entries 20
Mean −0.003242
Std Dev 0.1493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

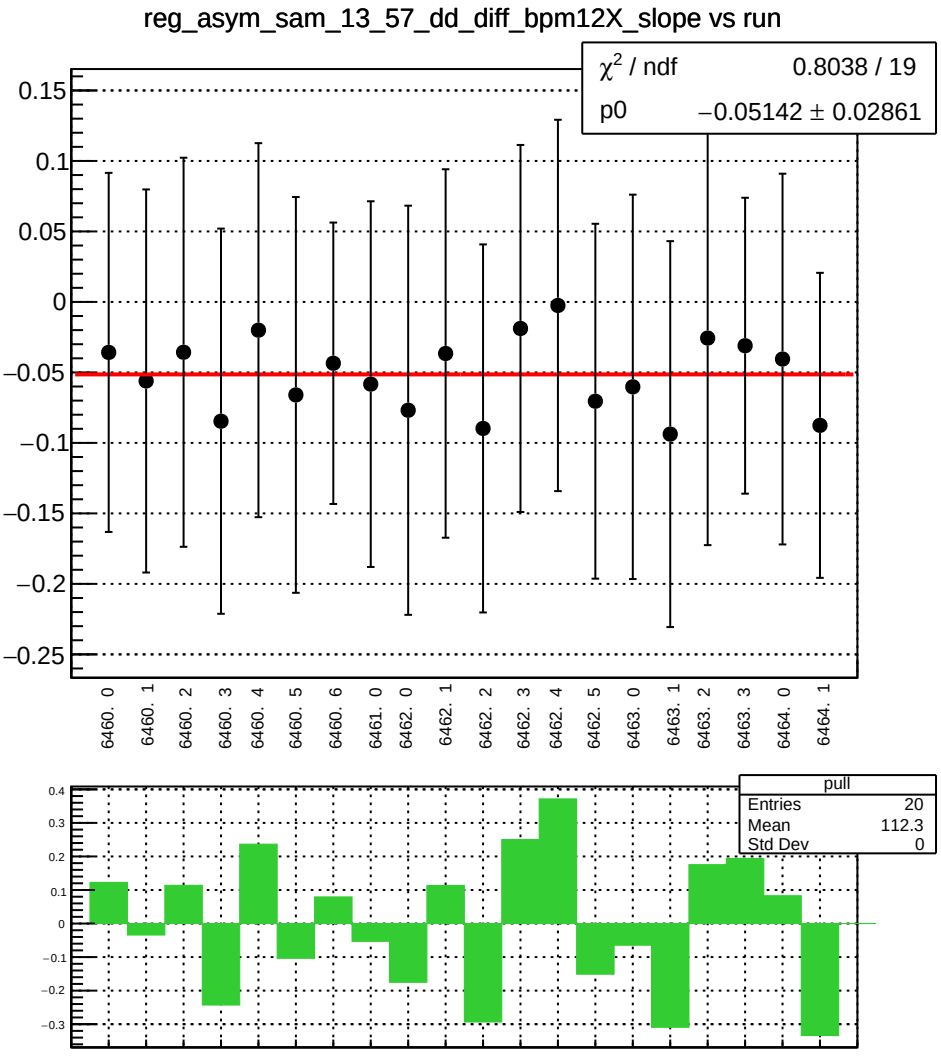

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7533 / 19
p0 0.1665 ± 0.1015
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −135.1
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 20
Mean −0.005882
Std Dev 0.194
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

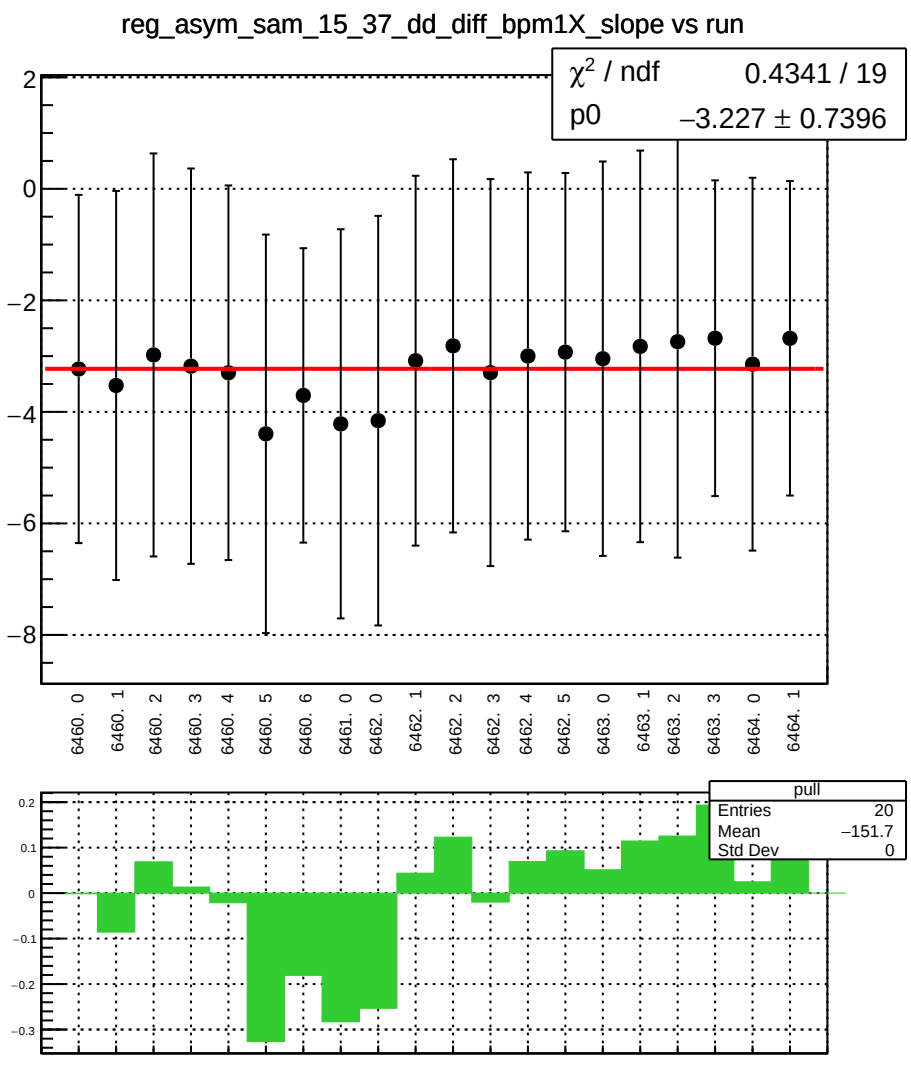

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 1.853 / 19
p0 −10.98 ± 0.5792
−6
−8
−10
−12
−14
−16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −233.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.004801
Std Dev 0.3043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

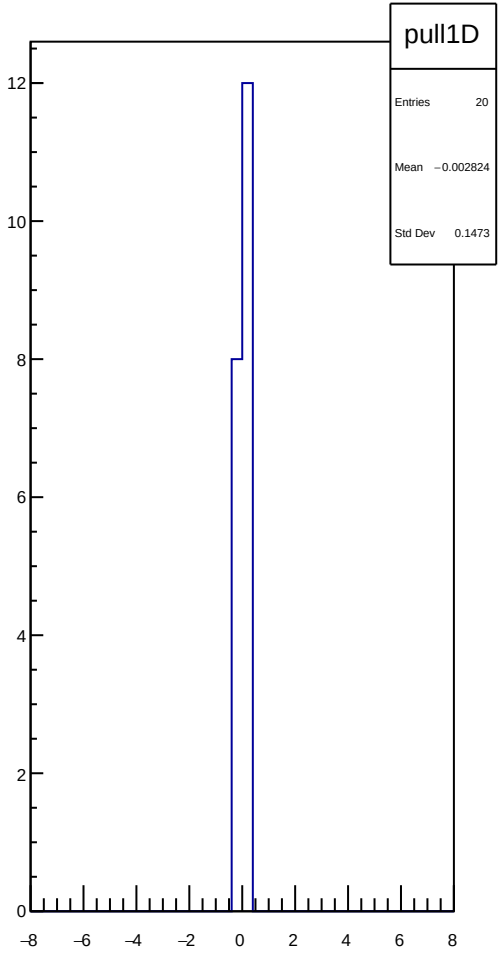

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.517 / 19
p0 −34.06 ± 0.6768
−28
−30
−32
−34
−36
−38
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −221.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.002999
Std Dev 0.4193
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

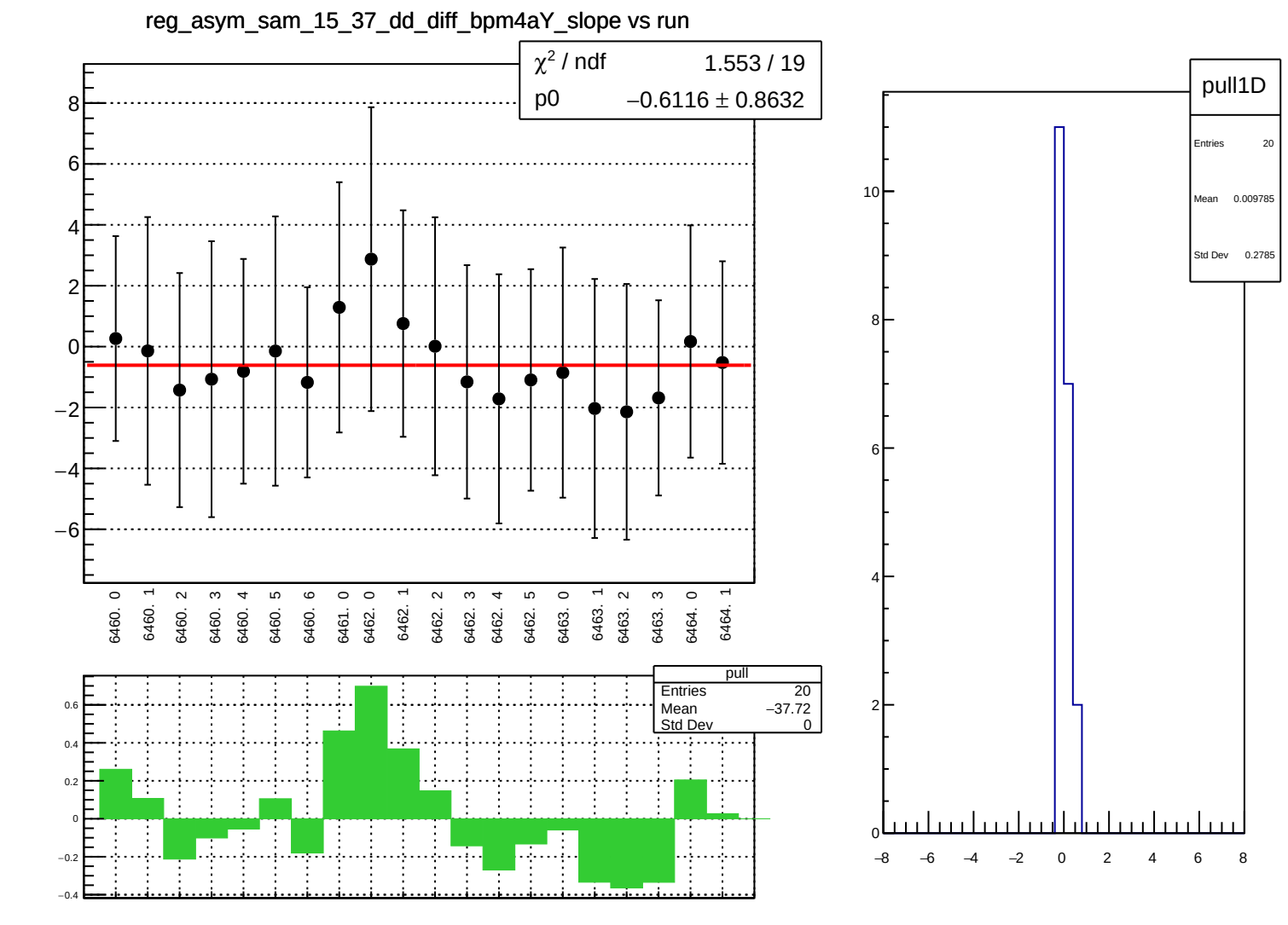

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.426 / 19
p0 −16.68 ± 0.5744
−12
−14
−16
−18
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −140
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.009224
Std Dev 0.3482
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

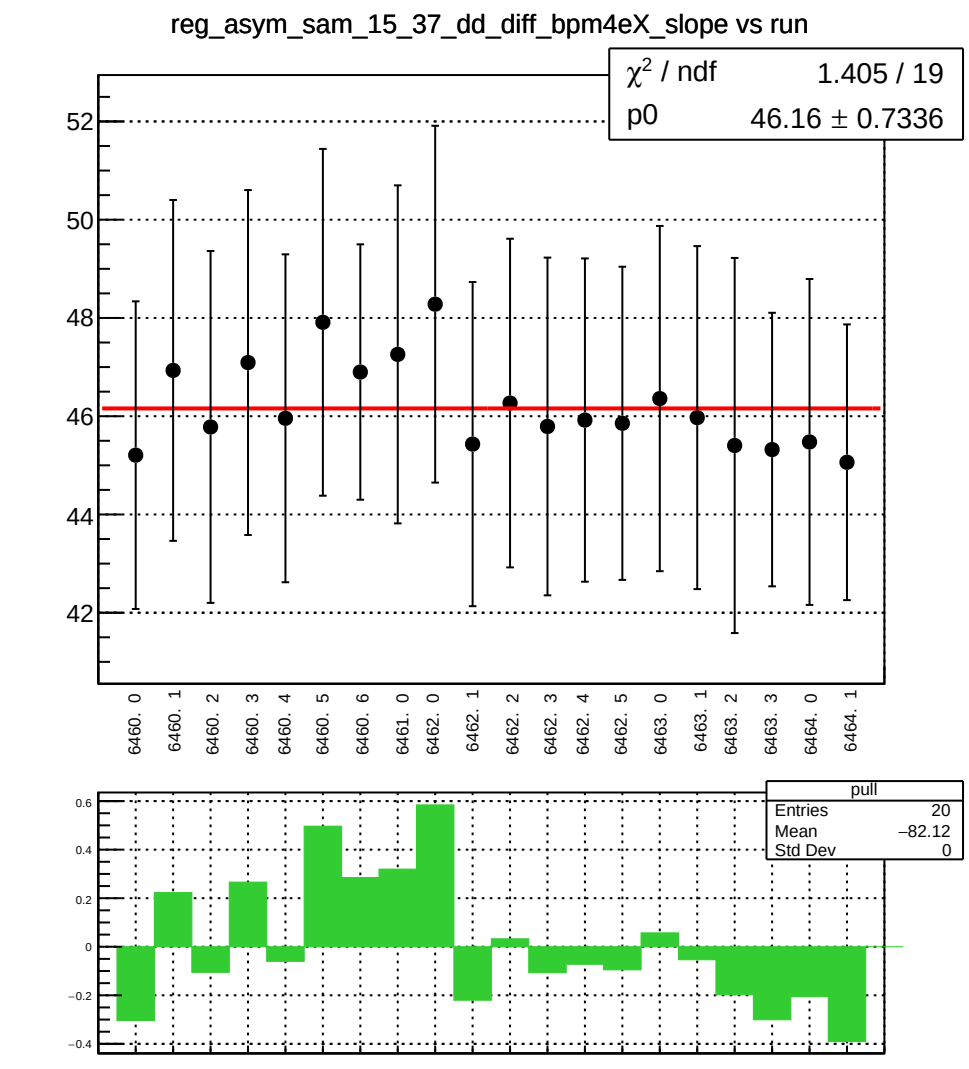

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.182 / 19
p0 −5.51 ± 0.6843
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −128.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.005795
Std Dev 0.3988
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

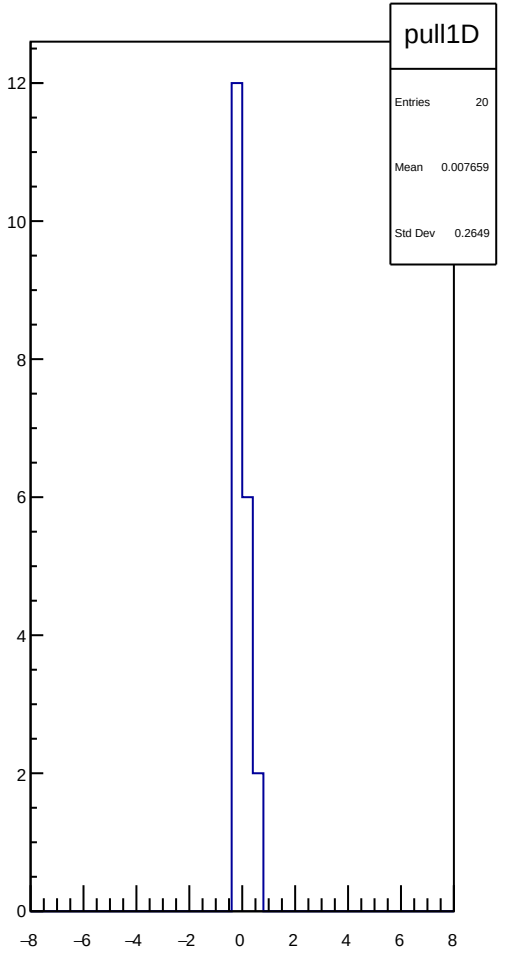

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8038 / 19
p0 −0.05142 ± 0.02861
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 112.3
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean −0.001056
Std Dev 0.2005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

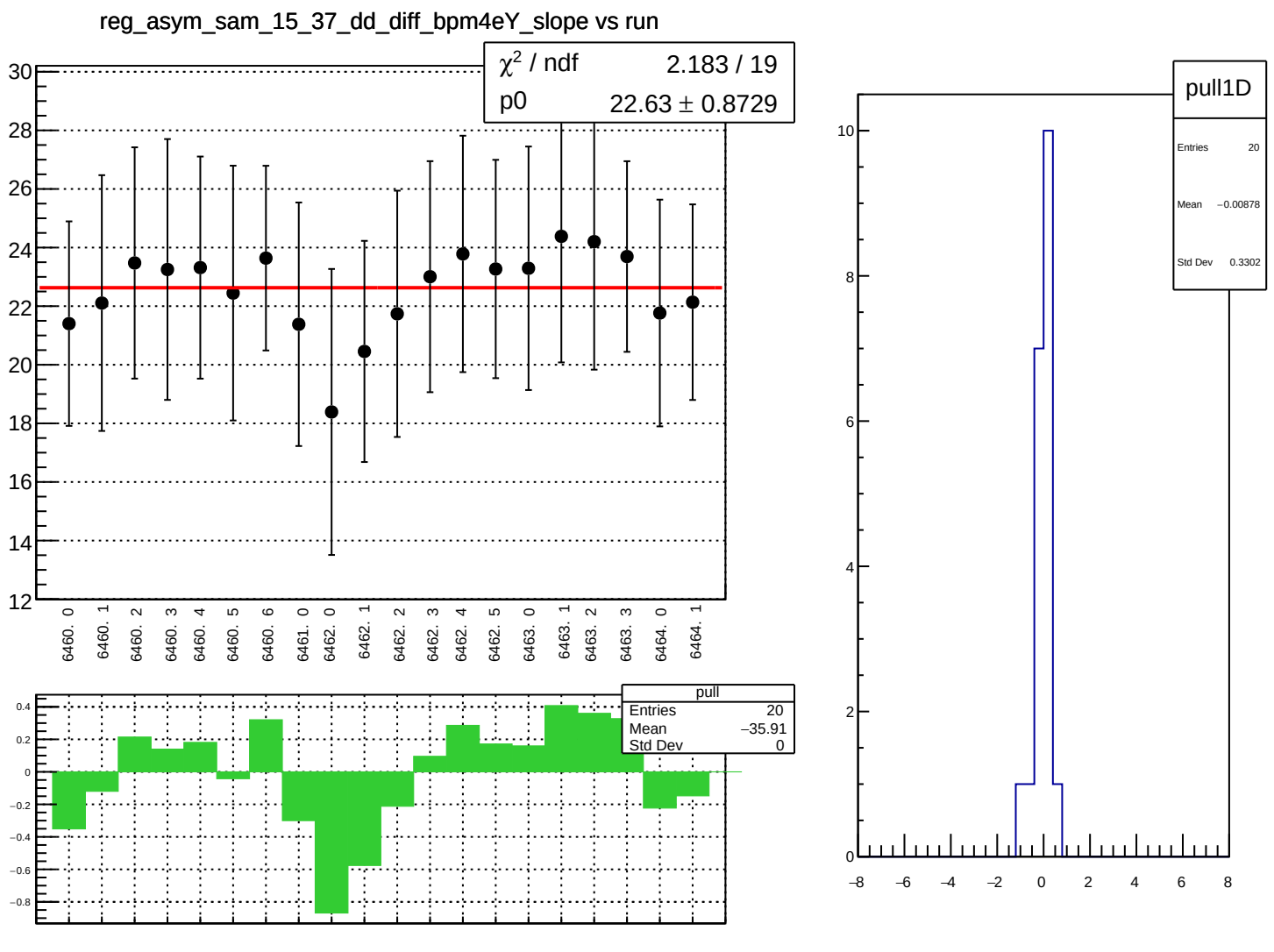

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 0.4341 / 19
p0 −3.227 ± 0.7396
2
0
−2
−4
−6
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −151.7
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3

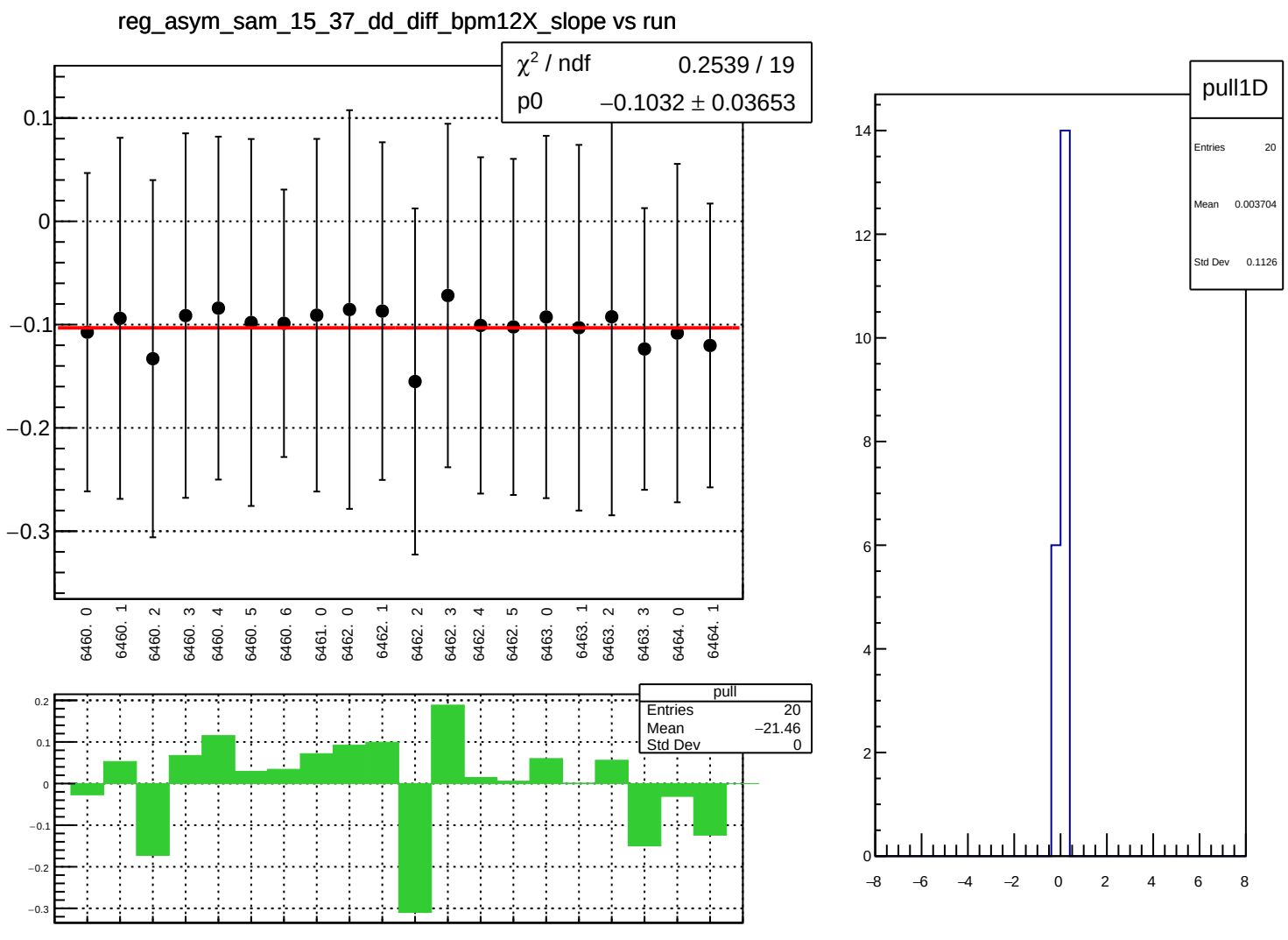

pull1D
Entries 20
Mean −0.002824
Std Dev 0.1473
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

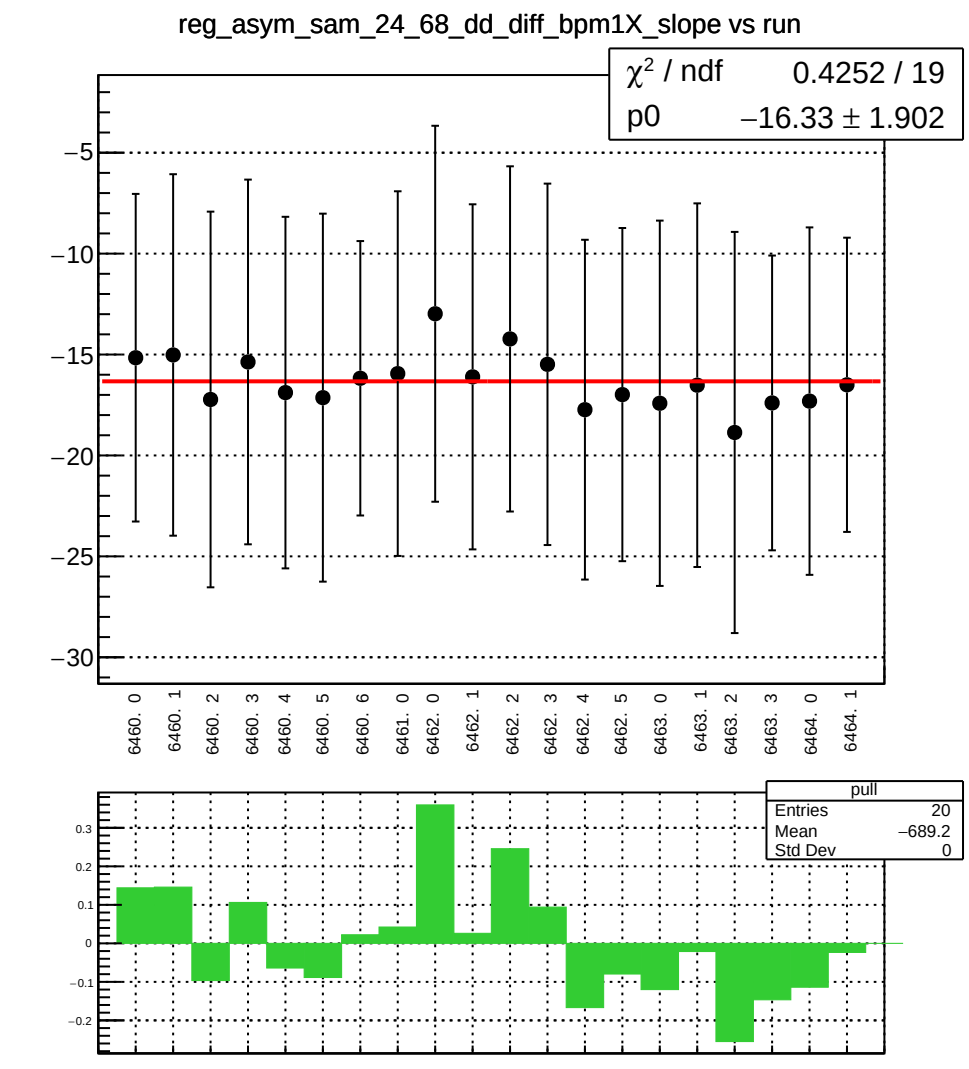

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.553 / 19
p0 −0.6116 ± 0.8632
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −37.72
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean 0.009785
Std Dev 0.2785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

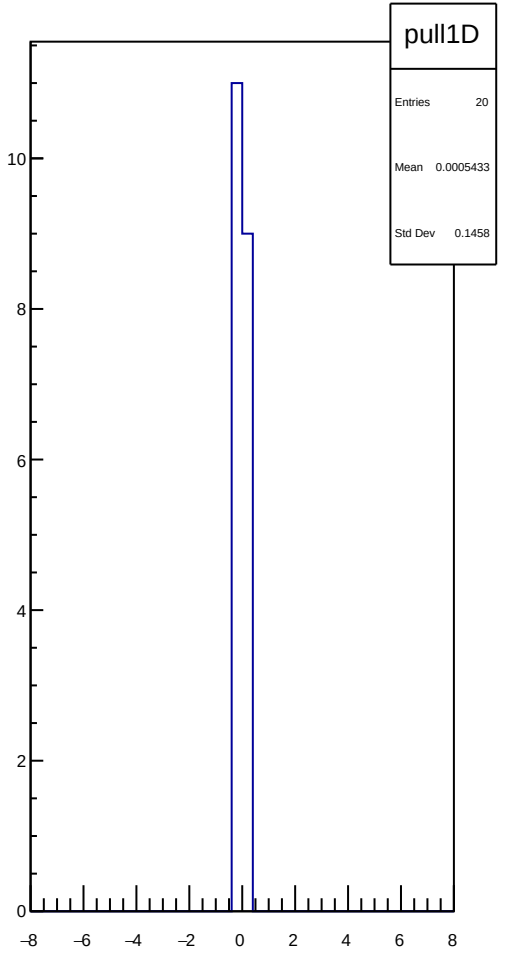

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.405 / 19
p0 46.16 ± 0.7336
52
50
48
46
44
42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −82.12
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

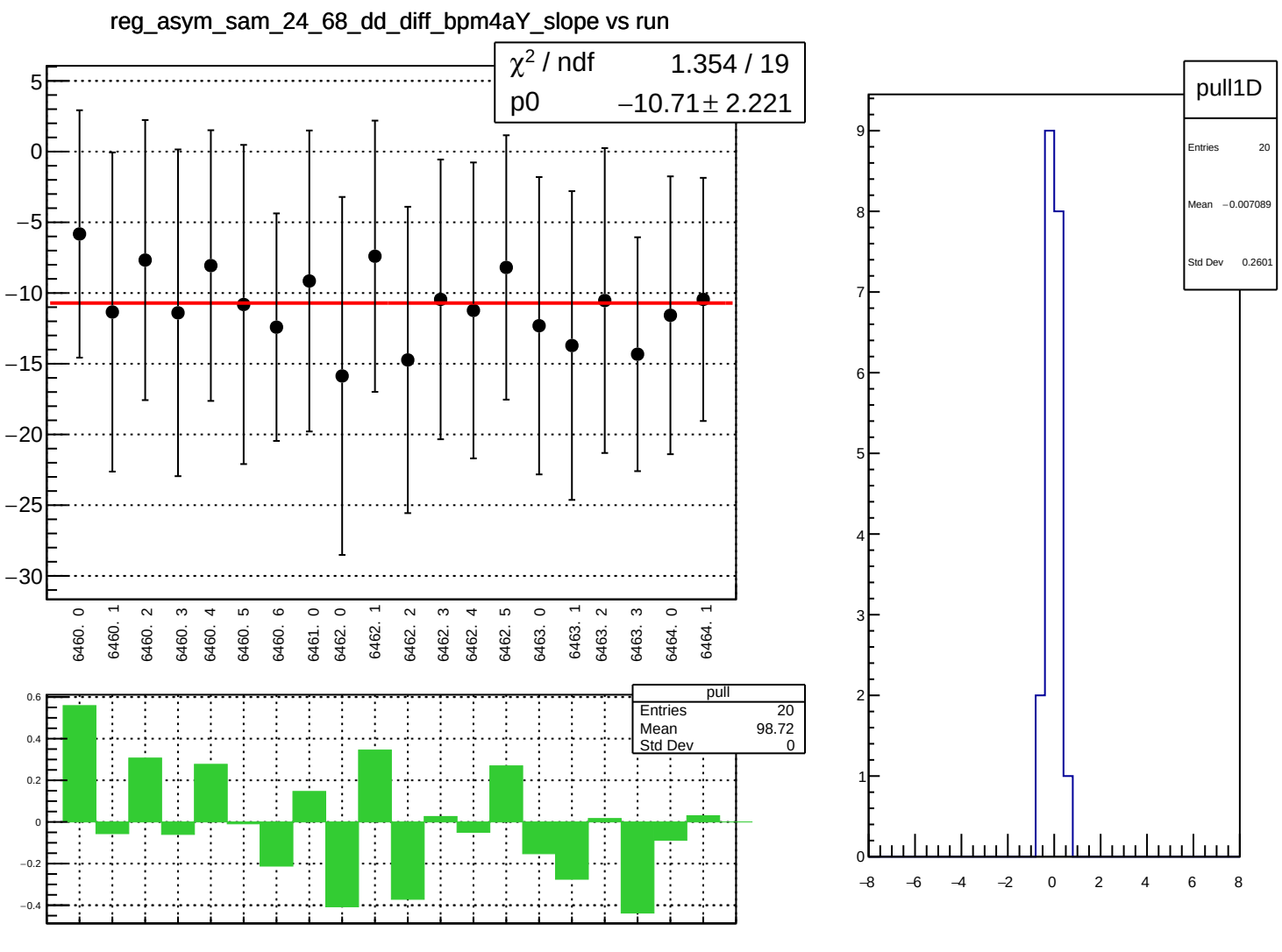

pull1D
Entries 20
Mean 0.007659
Std Dev 0.2649
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

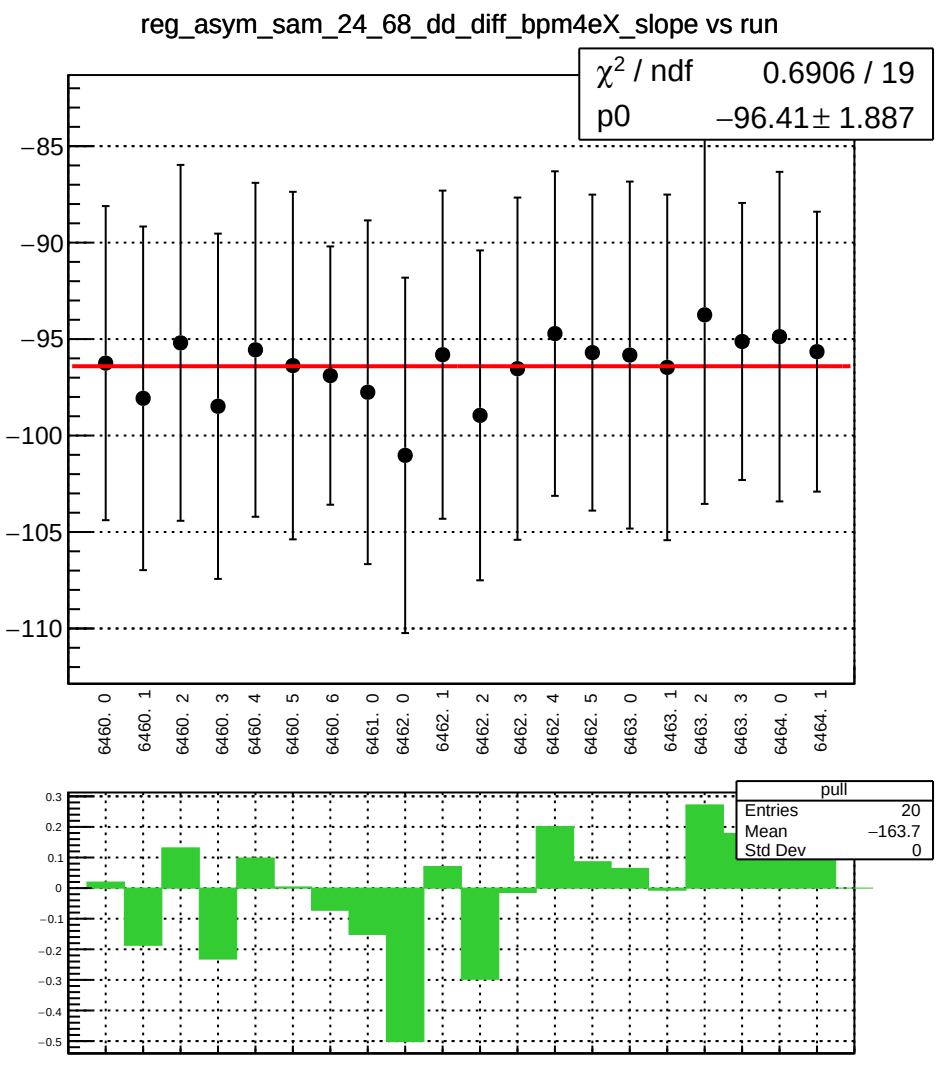

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.183 / 19
p0 22.63 ± 0.8729
30
28
26
24
22
20
18
16
14
12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −35.91
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.00878
Std Dev 0.3302
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

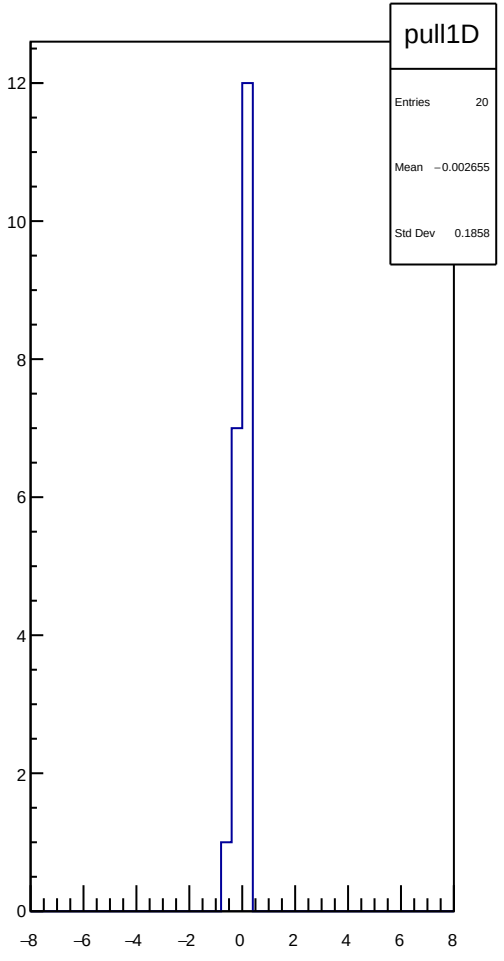

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.2539 / 19
p0 −0.1032 ± 0.03653
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −21.46
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean 0.003704
Std Dev 0.1126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

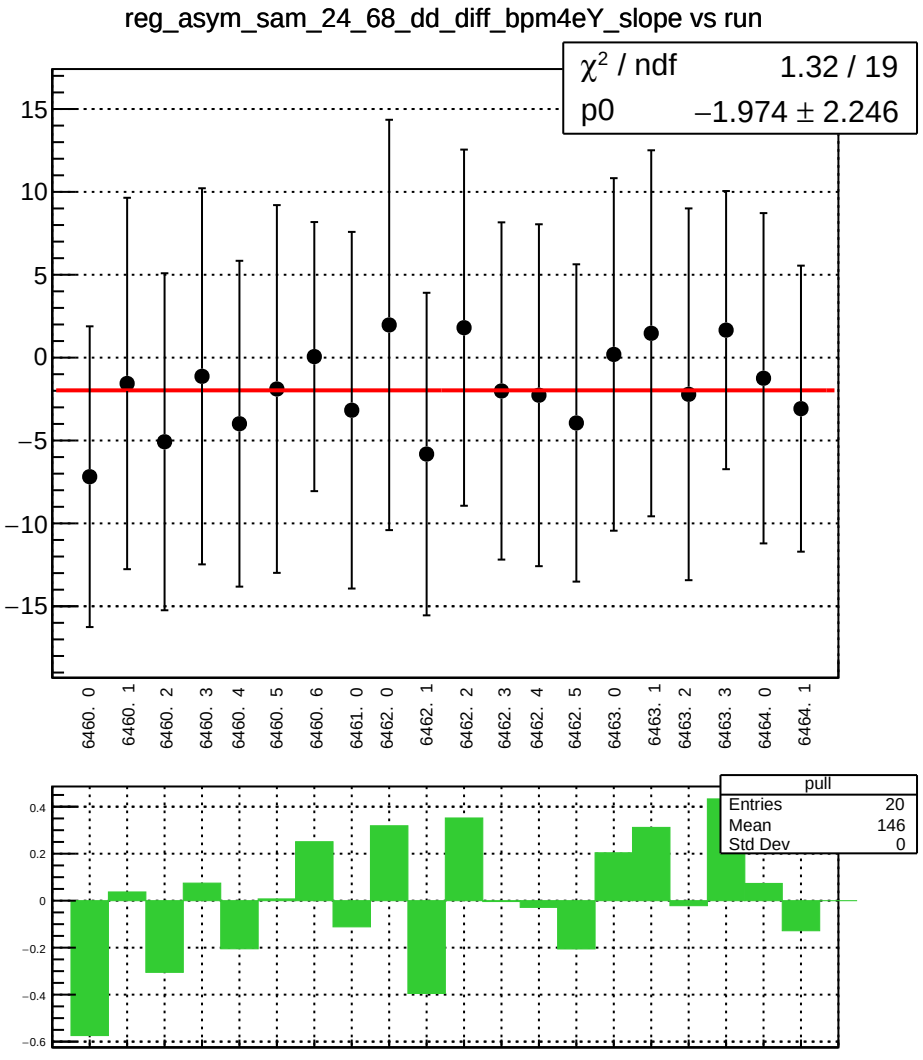

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.4252 / 19
p0 −16.33 ± 1.902
−5
−10
−15
−20
−25
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −689.2
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2

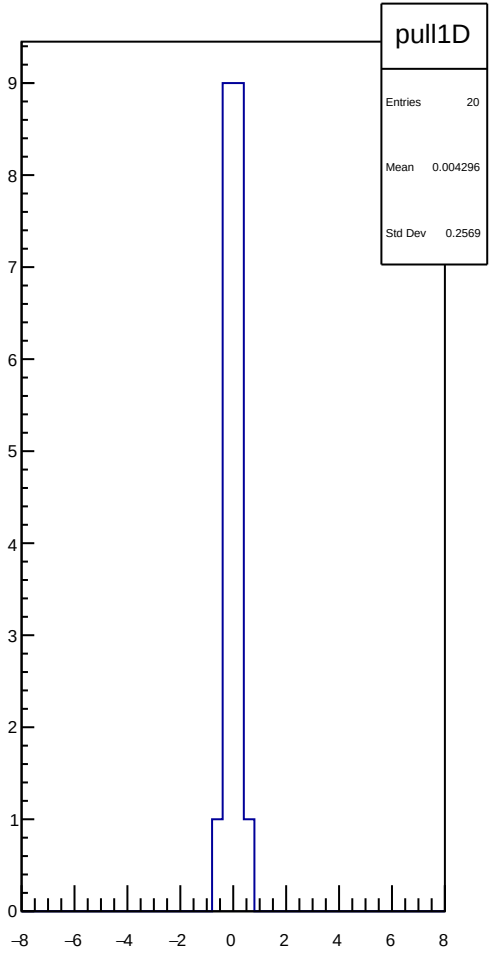

pull1D
Entries 20
Mean 0.0005433
Std Dev 0.1458
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

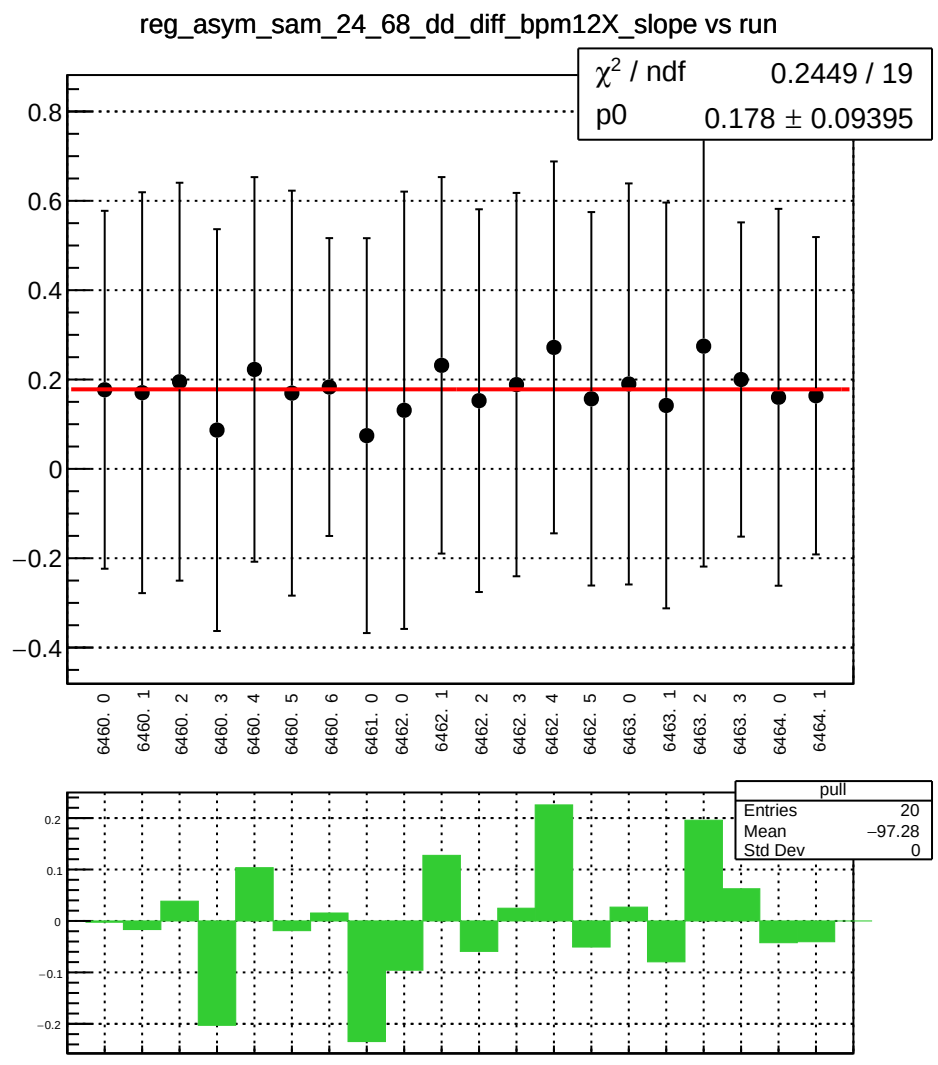

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.354 / 19
p0 −10.71 ± 2.221
5
0
−5
−10
−15
−20
−25
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 98.72
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean −0.007089
Std Dev 0.2601
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

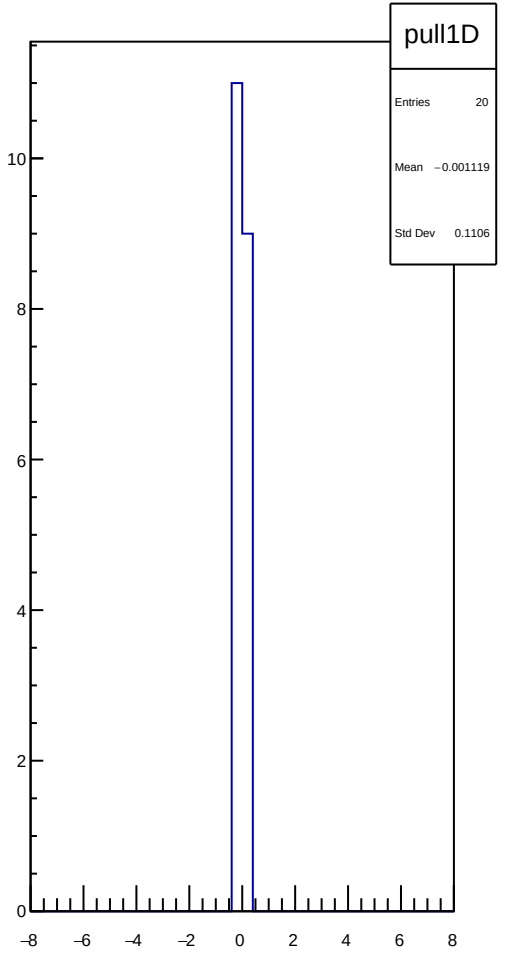

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6906 / 19
p0 −96.41 ± 1.887
−85
−90
−95
−100
−105
−110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −163.7
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

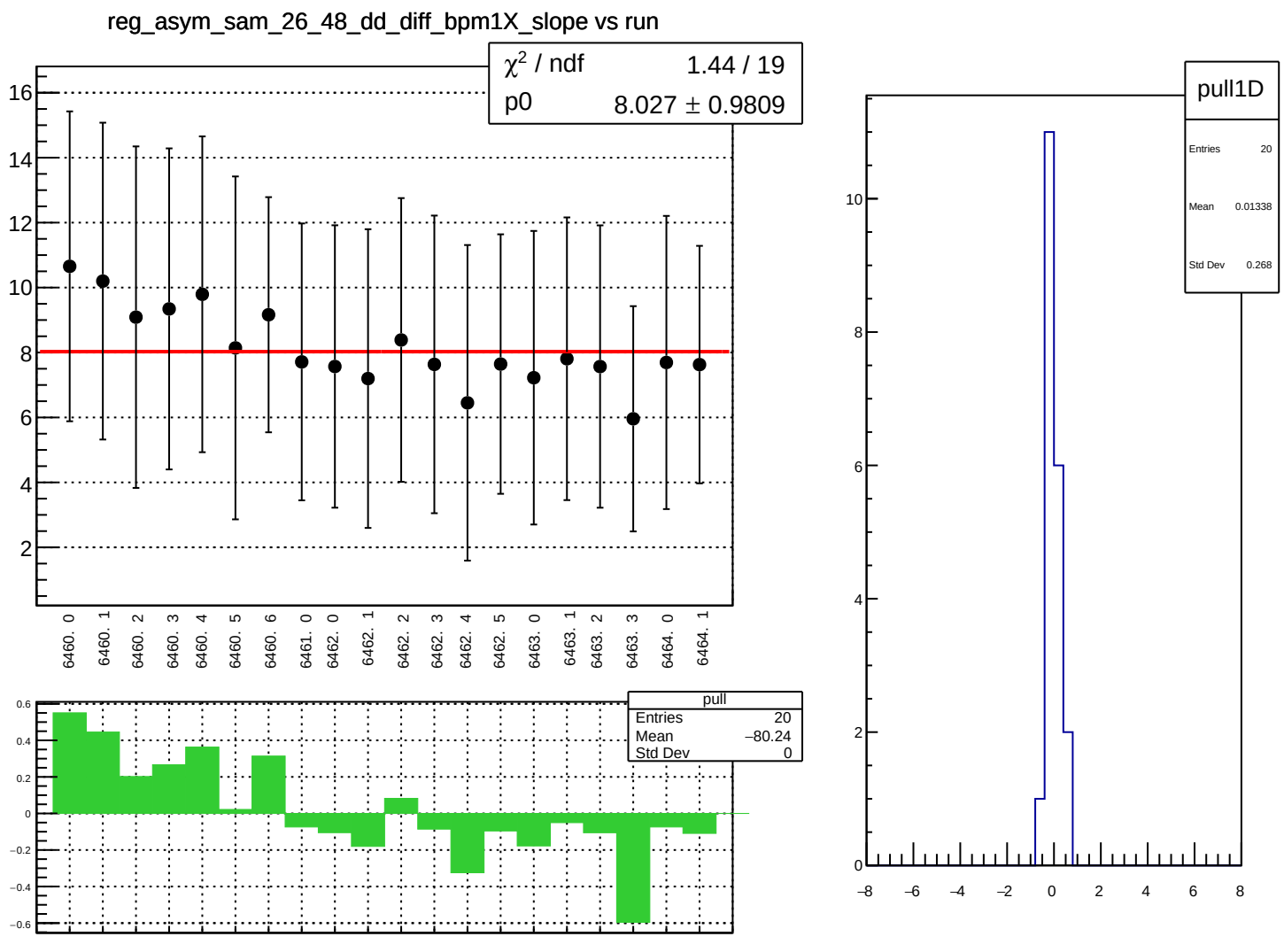

pull1D
Entries 20
Mean −0.002655
Std Dev 0.1858
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

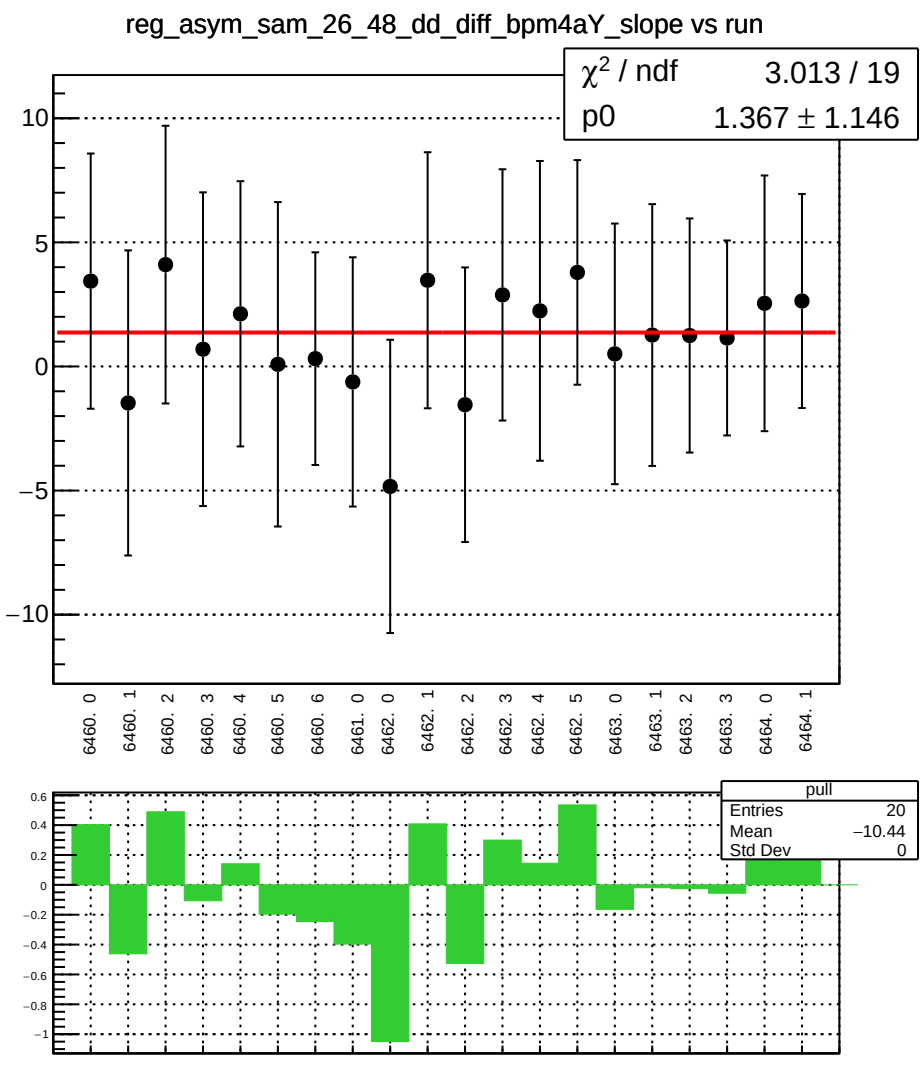

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.32 / 19
p0 −1.974 ± 2.246
15
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 146
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

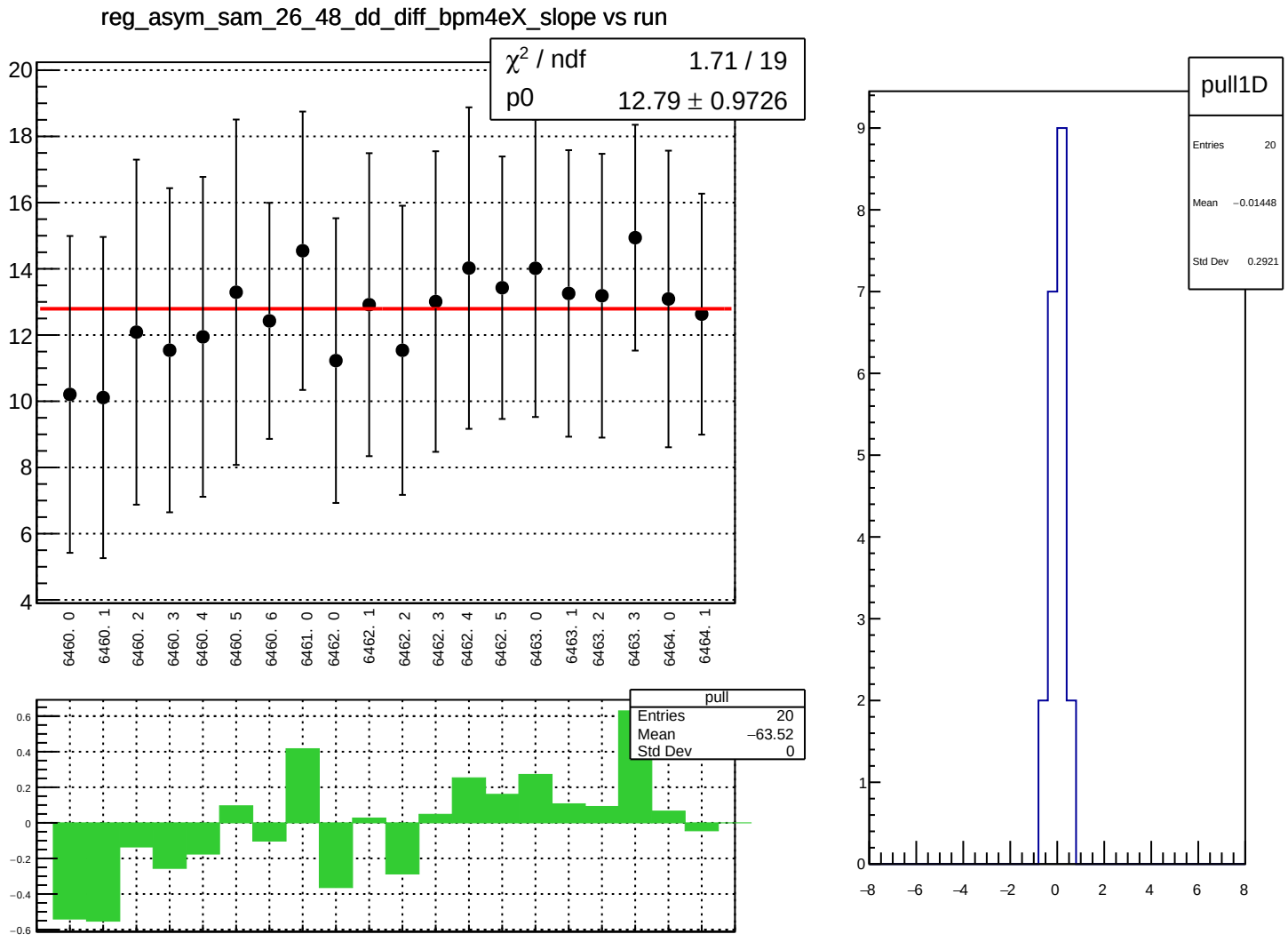

pull1D
Entries 20
Mean 0.004296
Std Dev 0.2569
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

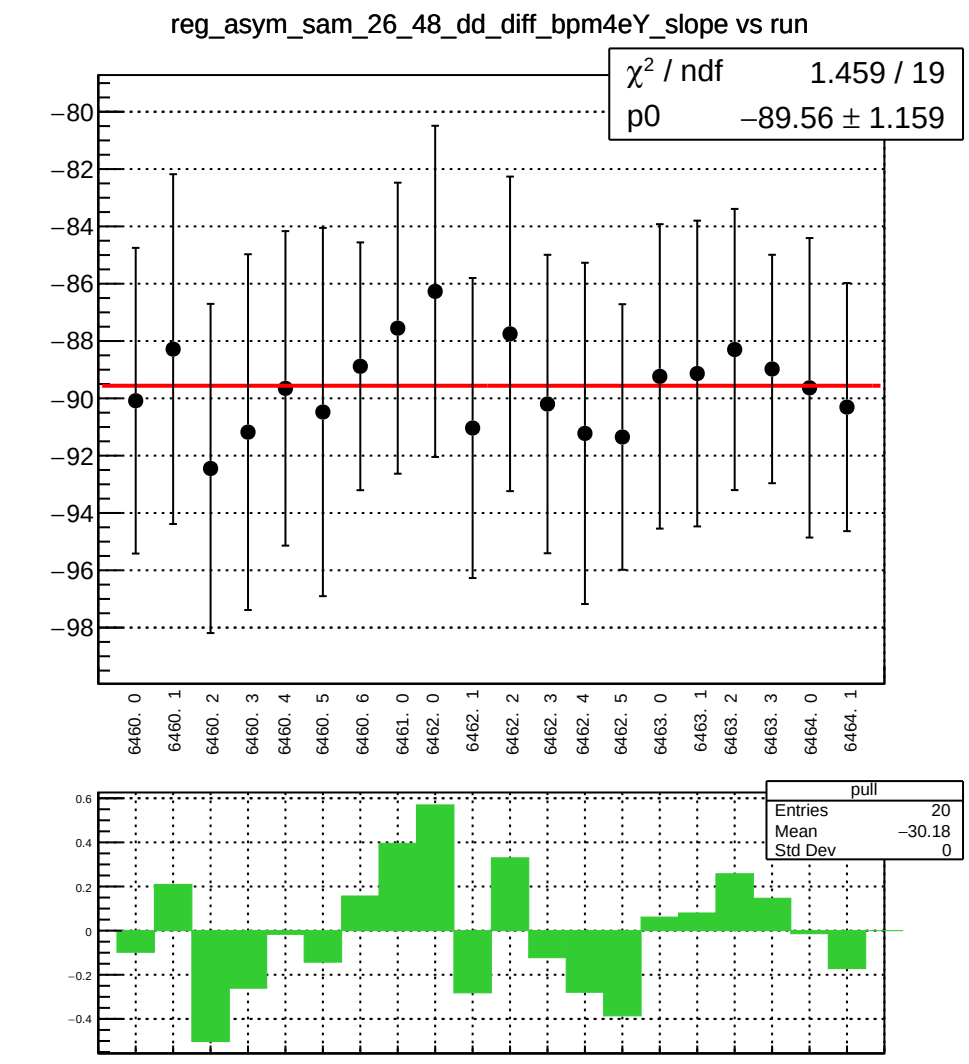

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.2449 / 19
p0 0.178 ± 0.09395
0.8
0.6
0.4
0.2
0
−0.2
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −97.28
Std Dev 0
0.2
0.1
0
−0.1
−0.2

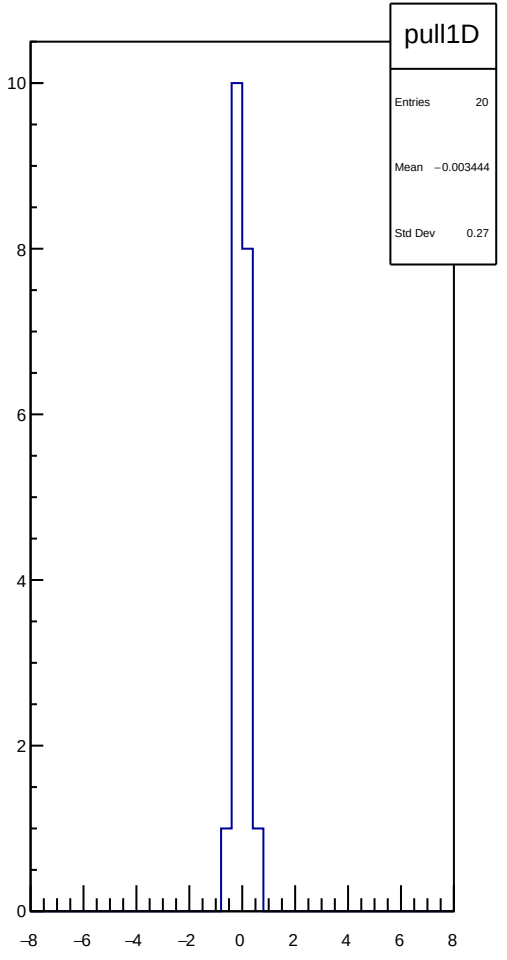

pull1D
Entries 20
Mean −0.001119
Std Dev 0.1106
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

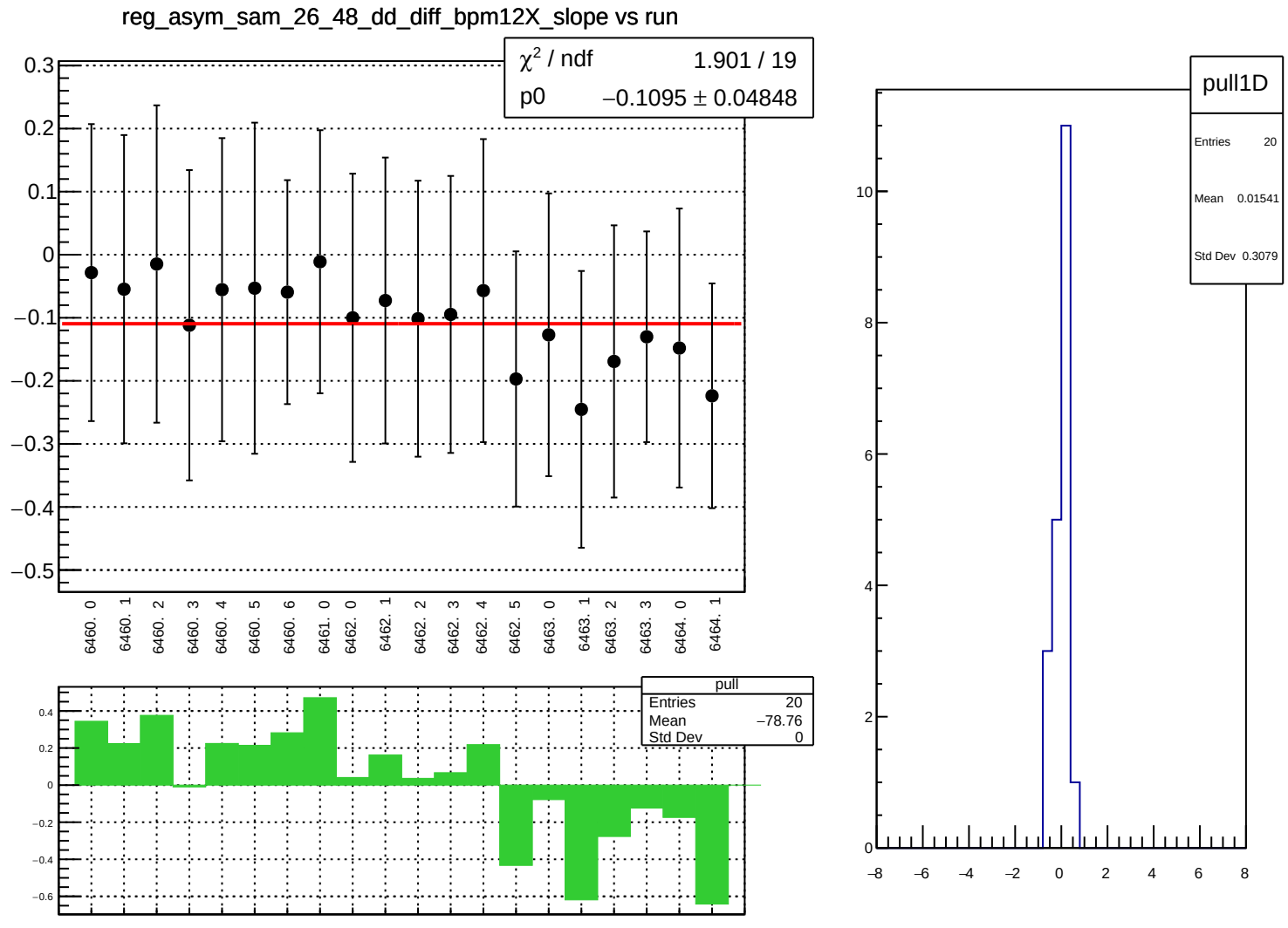

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.44 / 19
p0 8.027 ± 0.9809
16
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean –80.24
Std Dev 0
0.6
0.4
0.2
0
–0.2
–0.4
–0.6
pull1D
Entries 20
Mean 0.01338
Std Dev 0.268
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

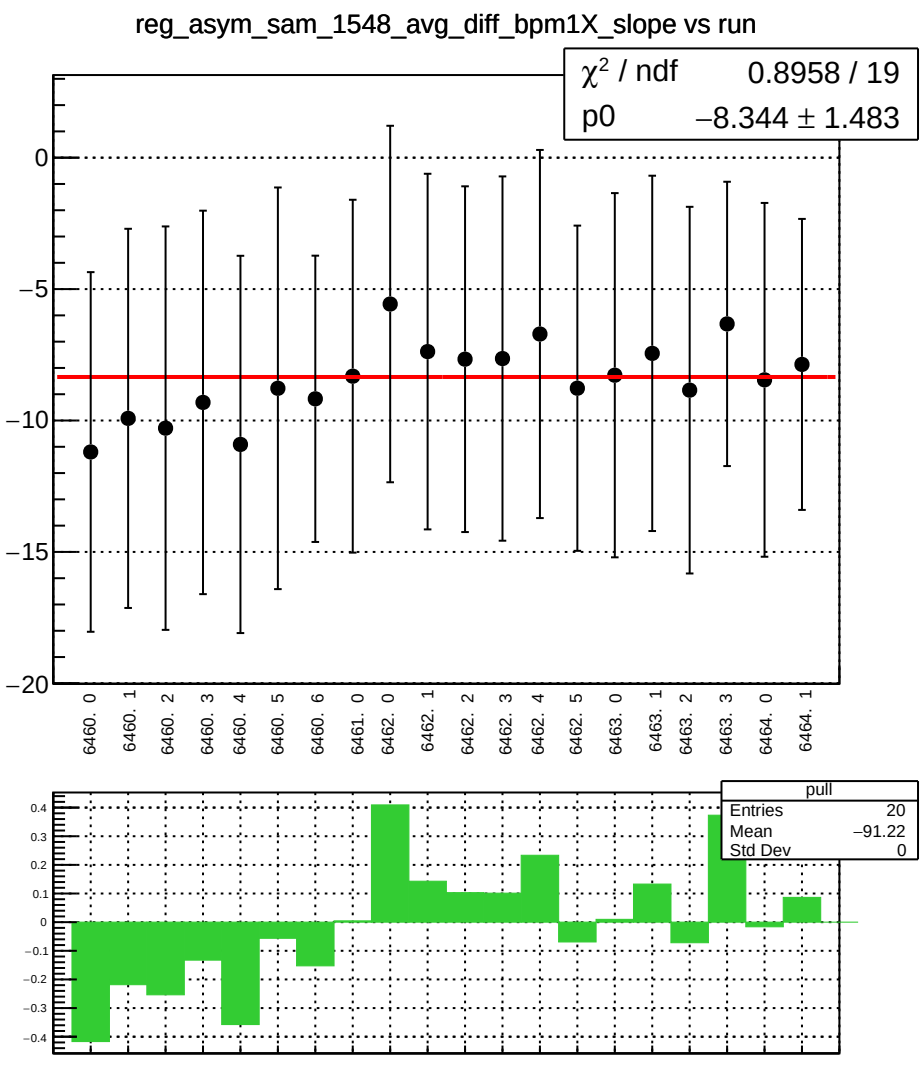

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.013 / 19
p0 1.367 ± 1.146
10
5
0
−5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −10.44
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 20
Mean −0.01511
Std Dev 0.3878
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

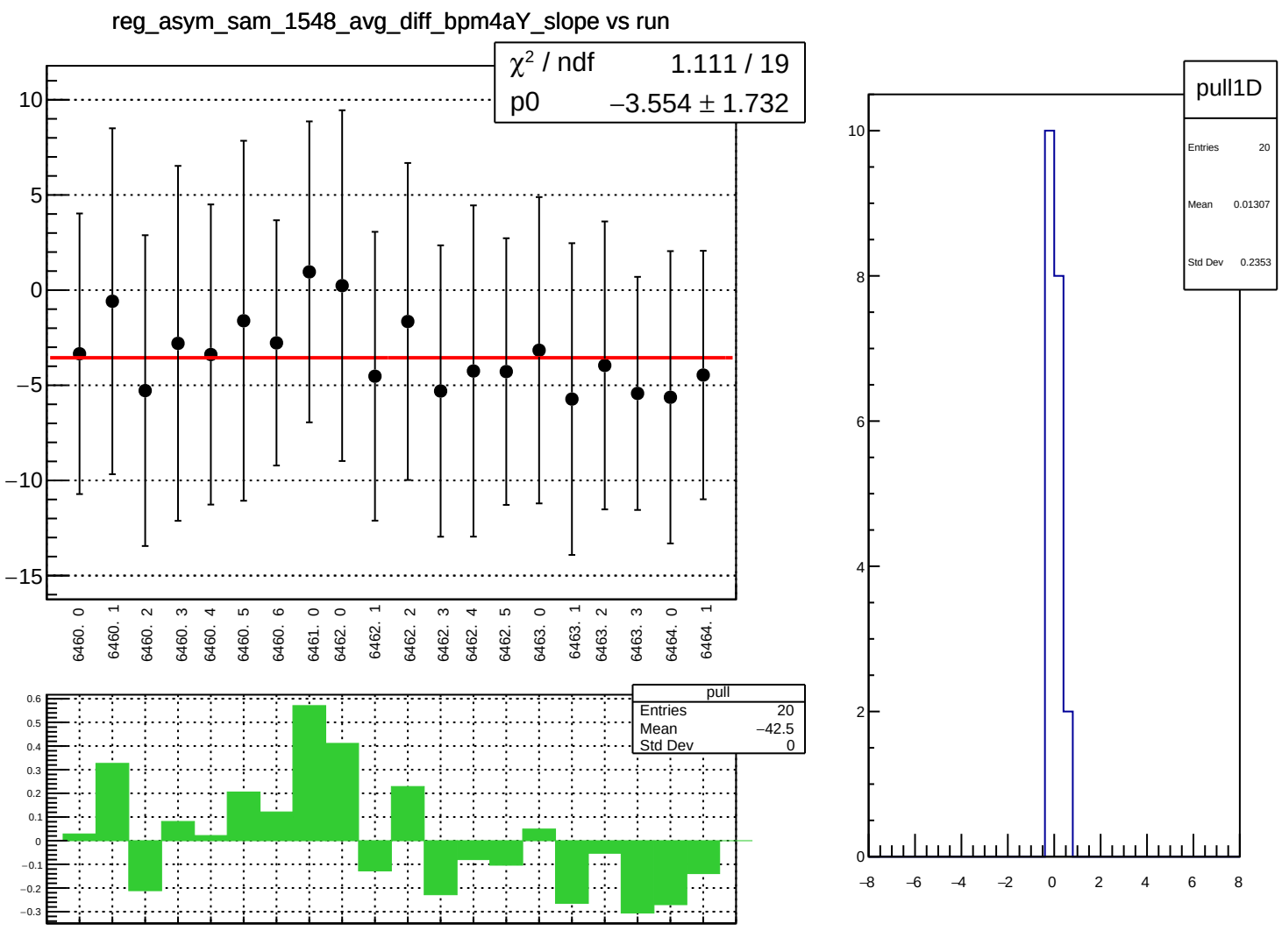

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.71 / 19
p0 12.79 ± 0.9726
20
18
16
14
12
10
8
6
4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −63.52
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.01448
Std Dev 0.2921
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

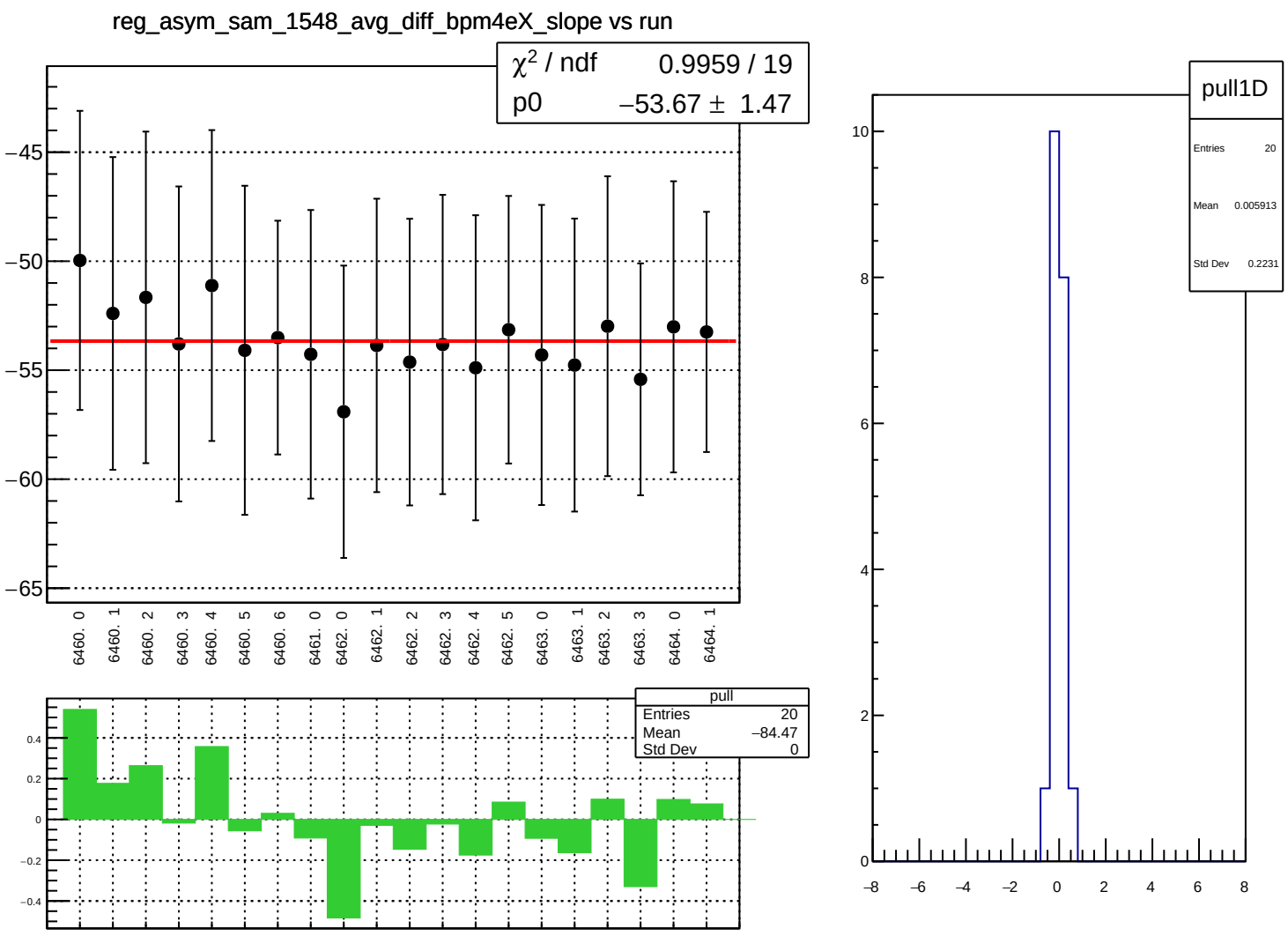

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.459 / 19
p0 −89.56 ± 1.159
−80
−82
−84
−86
−88
−90
−92
−94
−96
−98
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −30.18
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

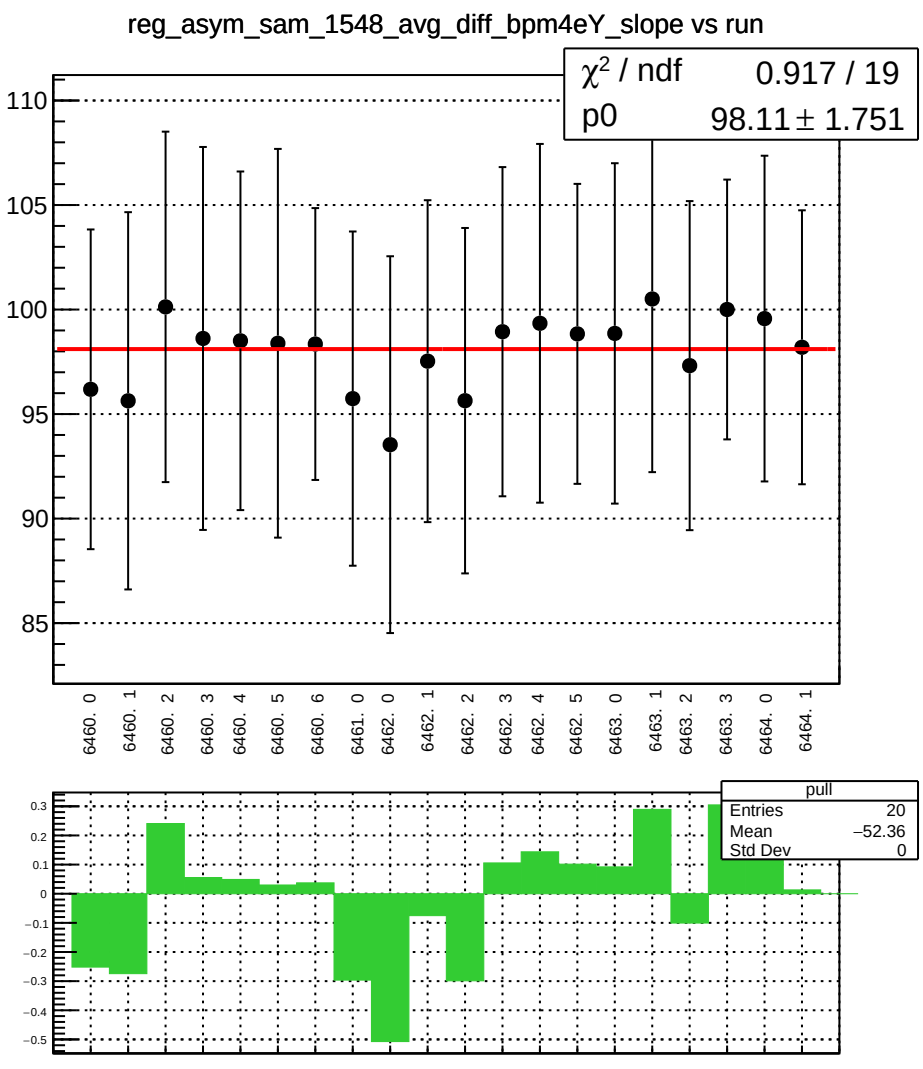

pull1D
Entries 20
Mean −0.003444
Std Dev 0.27
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

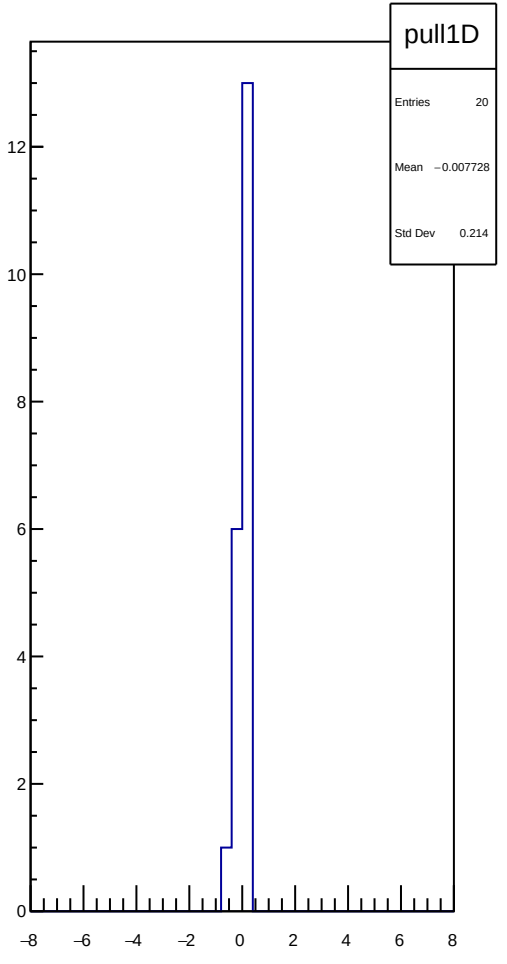

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.901 / 19
p0 −0.1095 ± 0.04848
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −78.76
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.01541
Std Dev 0.3079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

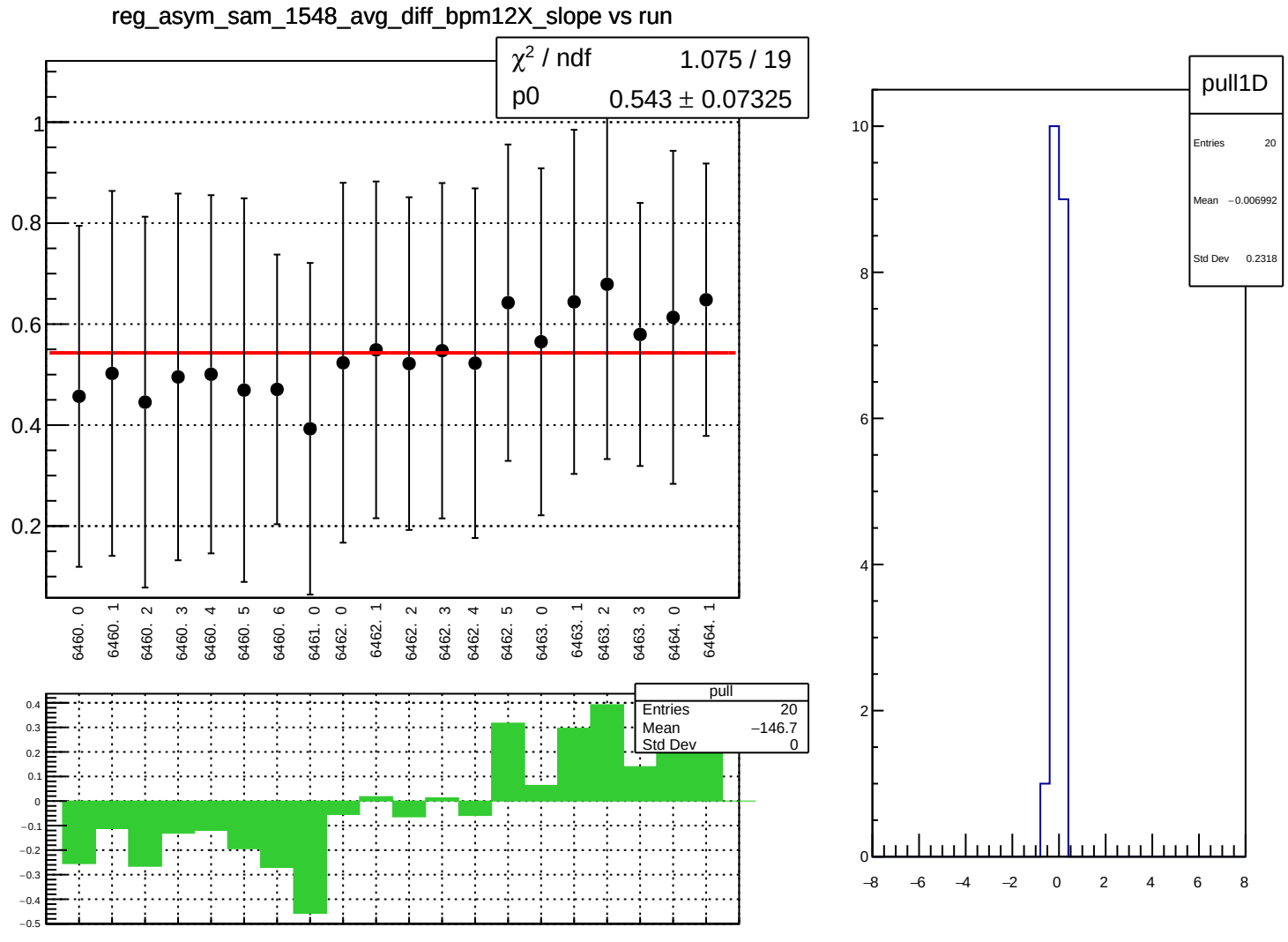

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 0.8958 / 19
p0 −8.344 ± 1.483
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −91.22
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 20
Mean −0.007397
Std Dev 0.2115
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

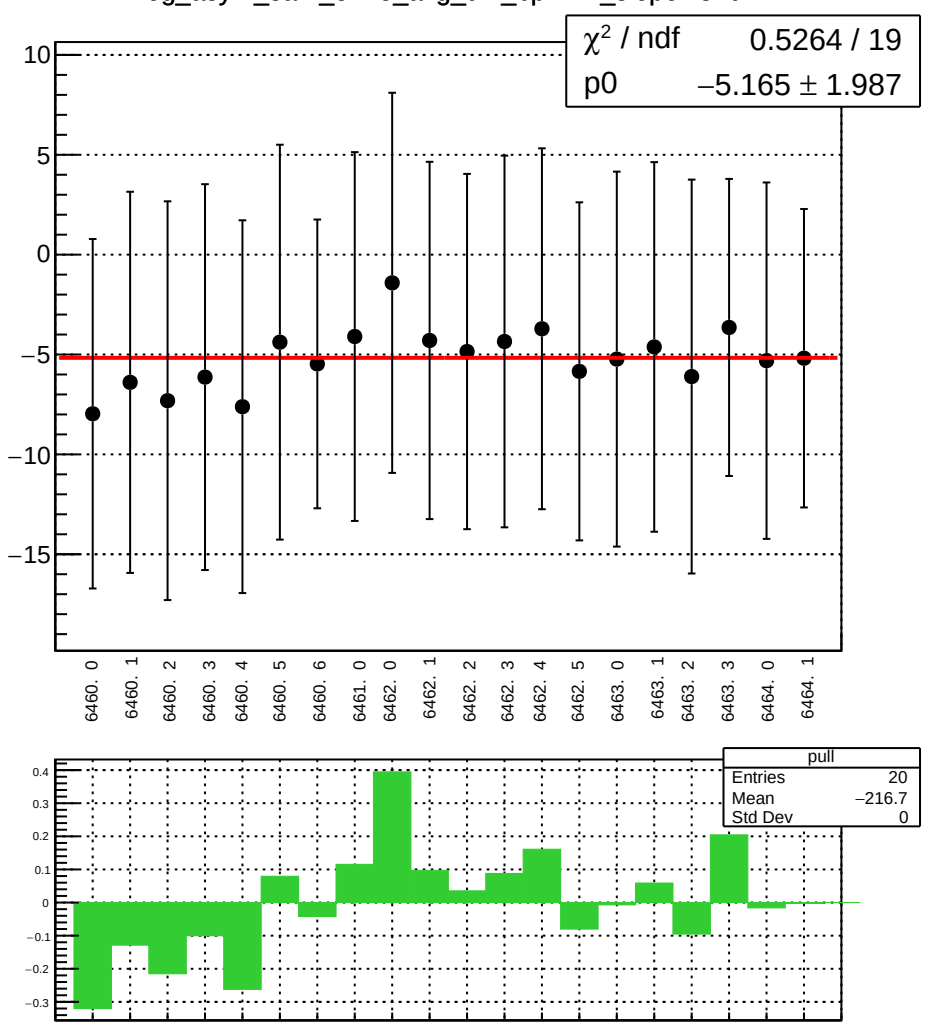

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.111 / 19
p0 −3.554 ± 1.732
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −42.5
Std Dev 0
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean 0.01307
Std Dev 0.2353
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

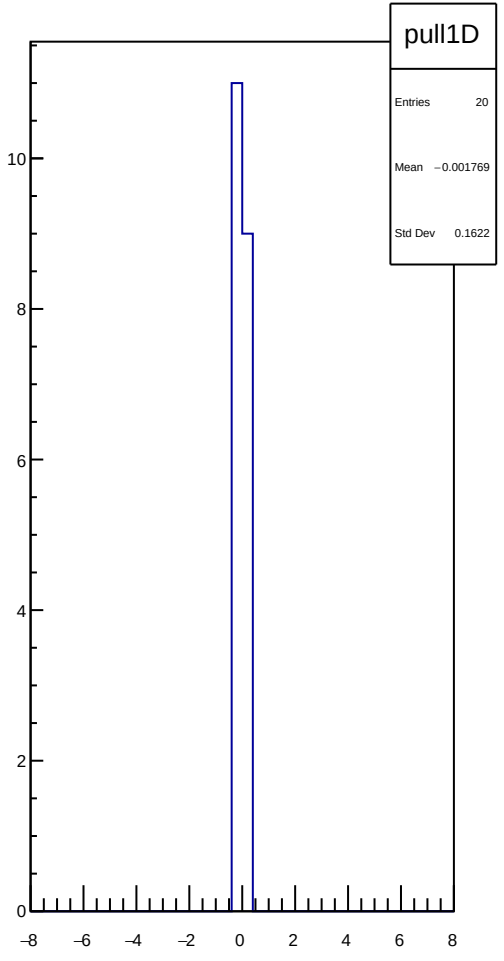

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.9959 / 19
p0 −53.67 ± 1.47
−45
−50
−55
−60
−65
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −84.47
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean 0.005913
Std Dev 0.2231
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

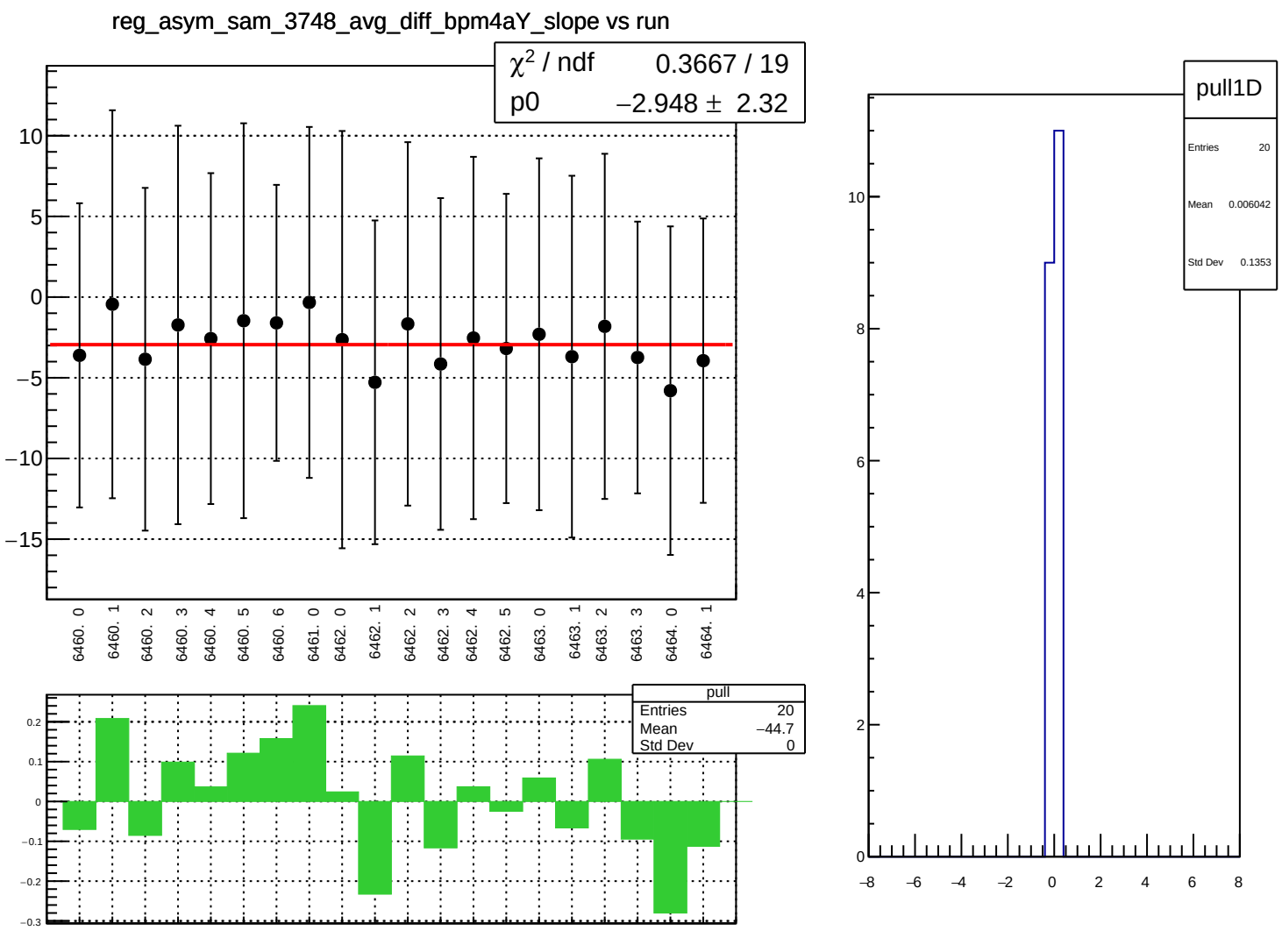

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.917 / 19
p0 98.11 ± 1.751
110
105
100
95
90
85
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.36
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

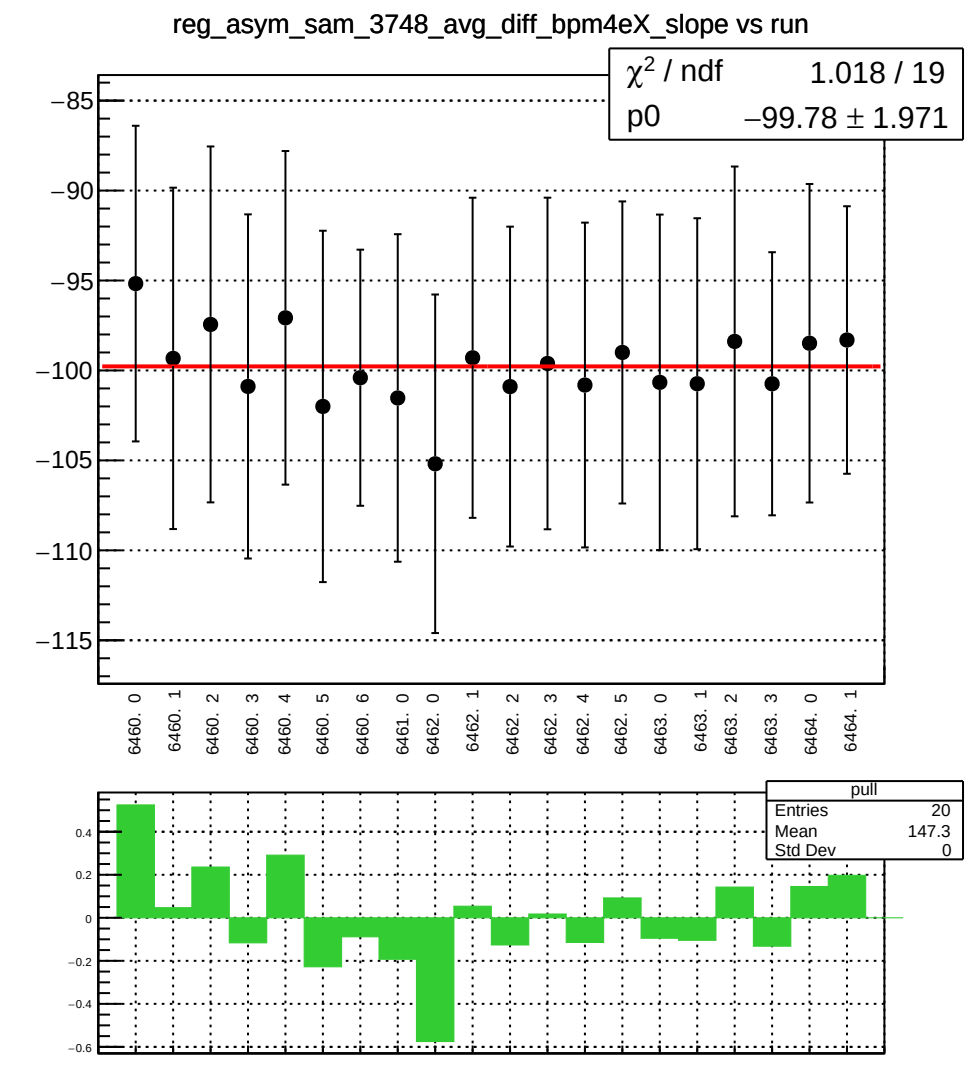

pull1D
Entries 20
Mean −0.007728
Std Dev 0.214
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

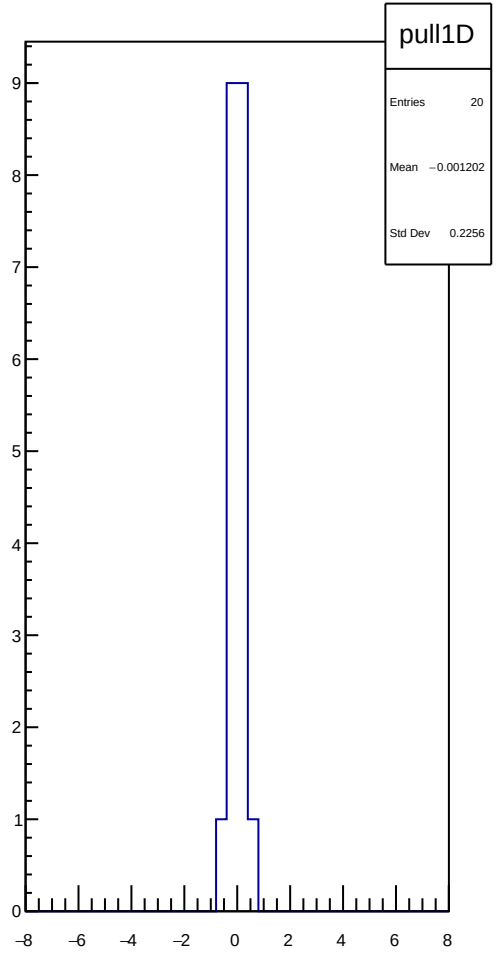

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 1.075 / 19
p0 0.543 ± 0.07325
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −146.7
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 20
Mean −0.006992
Std Dev 0.2318
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

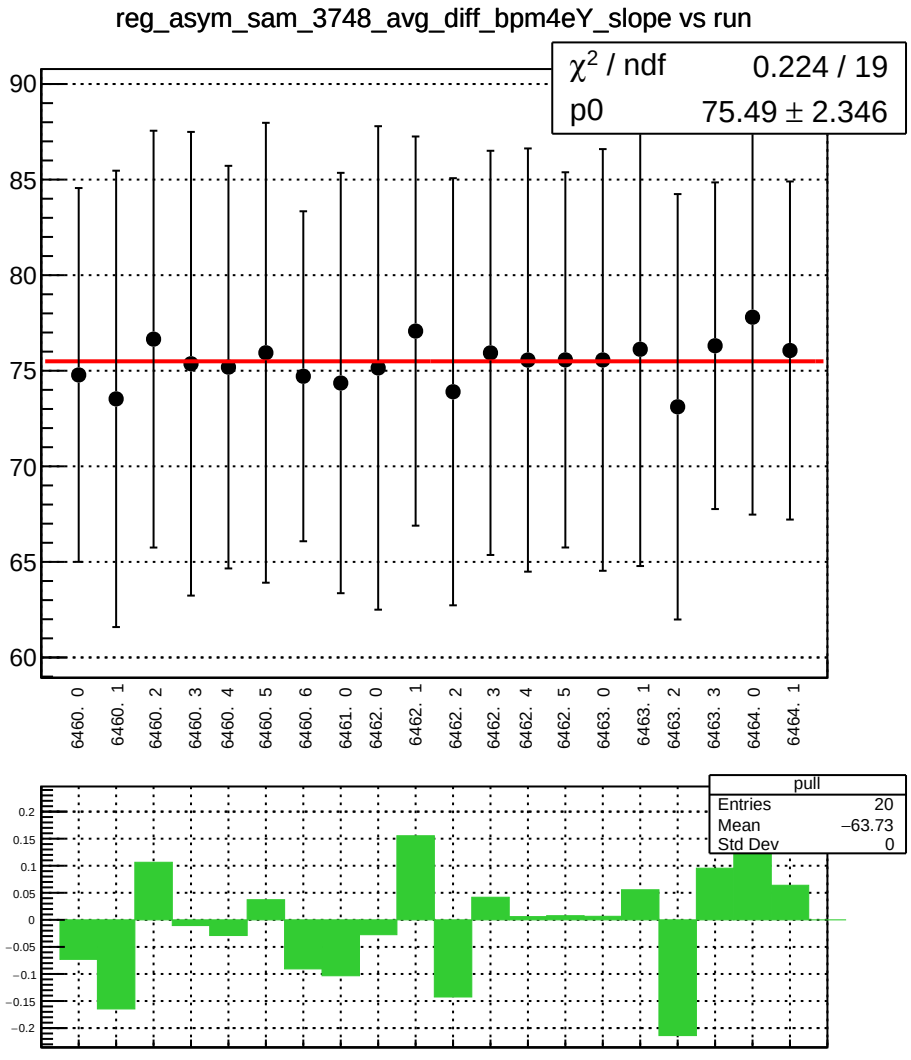

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 0.5264 / 19
p0 −5.165 ± 1.987
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −216.7
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

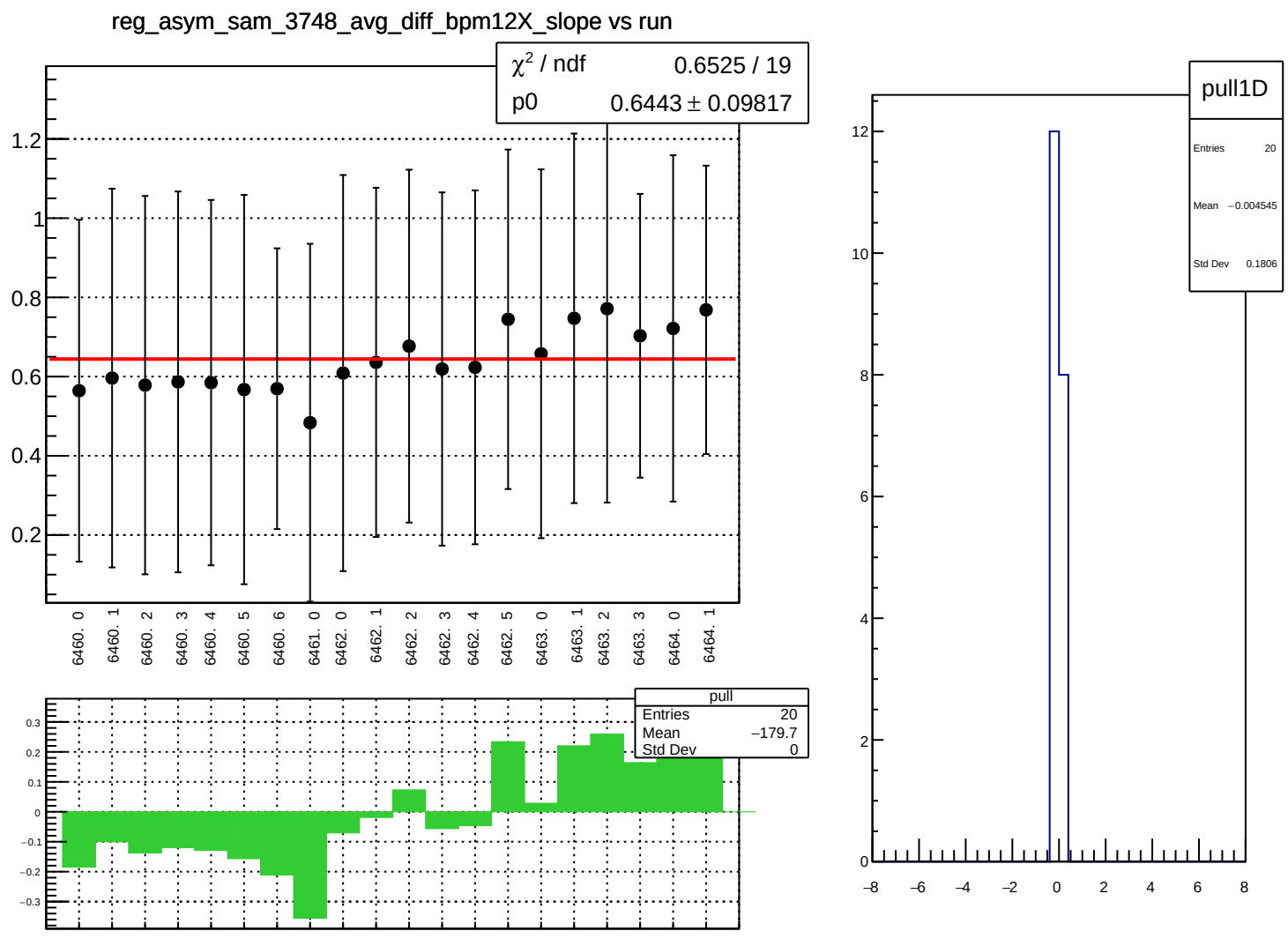

pull1D
Entries 20
Mean −0.001769
Std Dev 0.1622
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

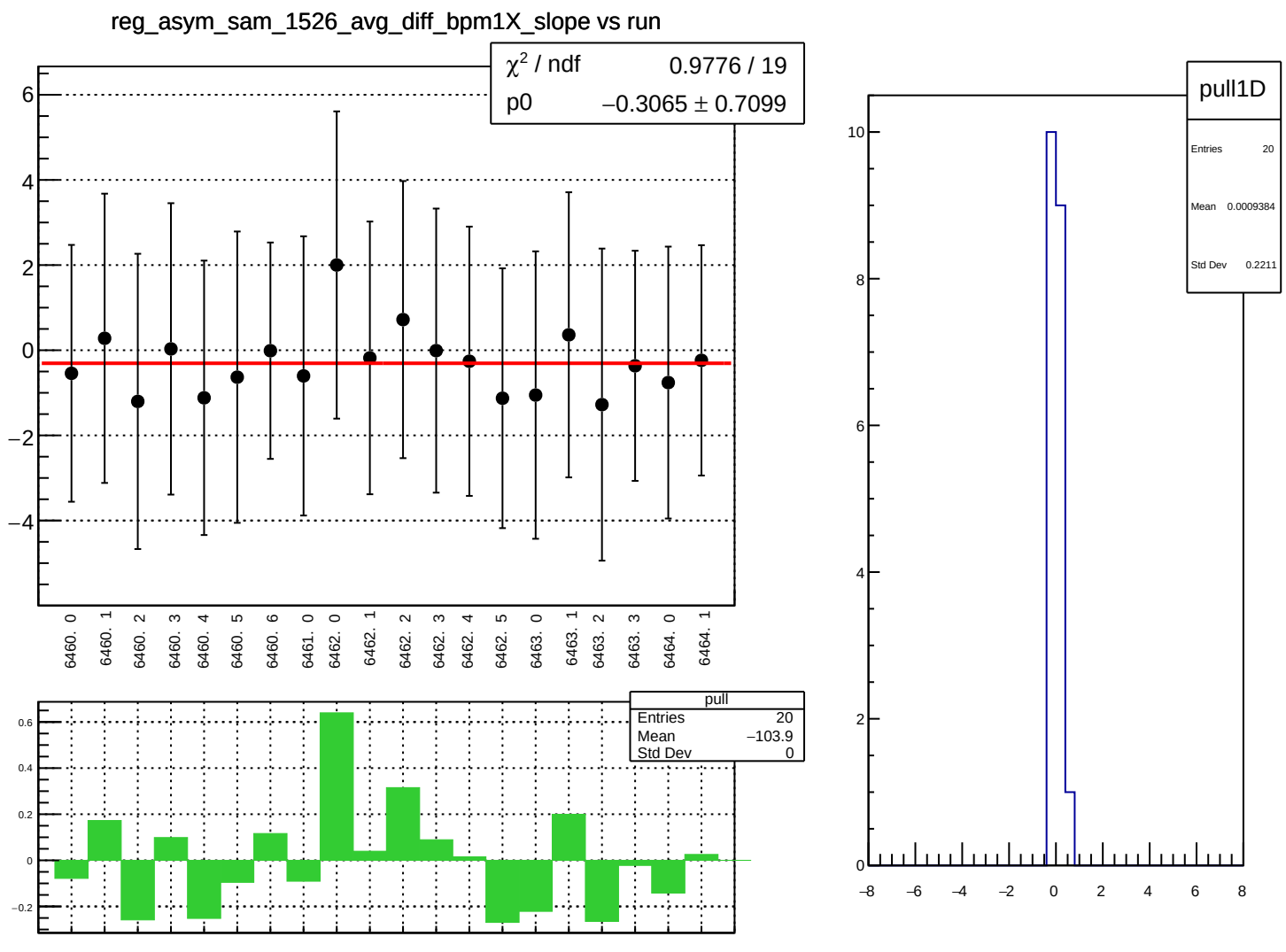

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.3667 / 19
p0 −2.948 ± 2.32
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −44.7
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean 0.006042
Std Dev 0.1353
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

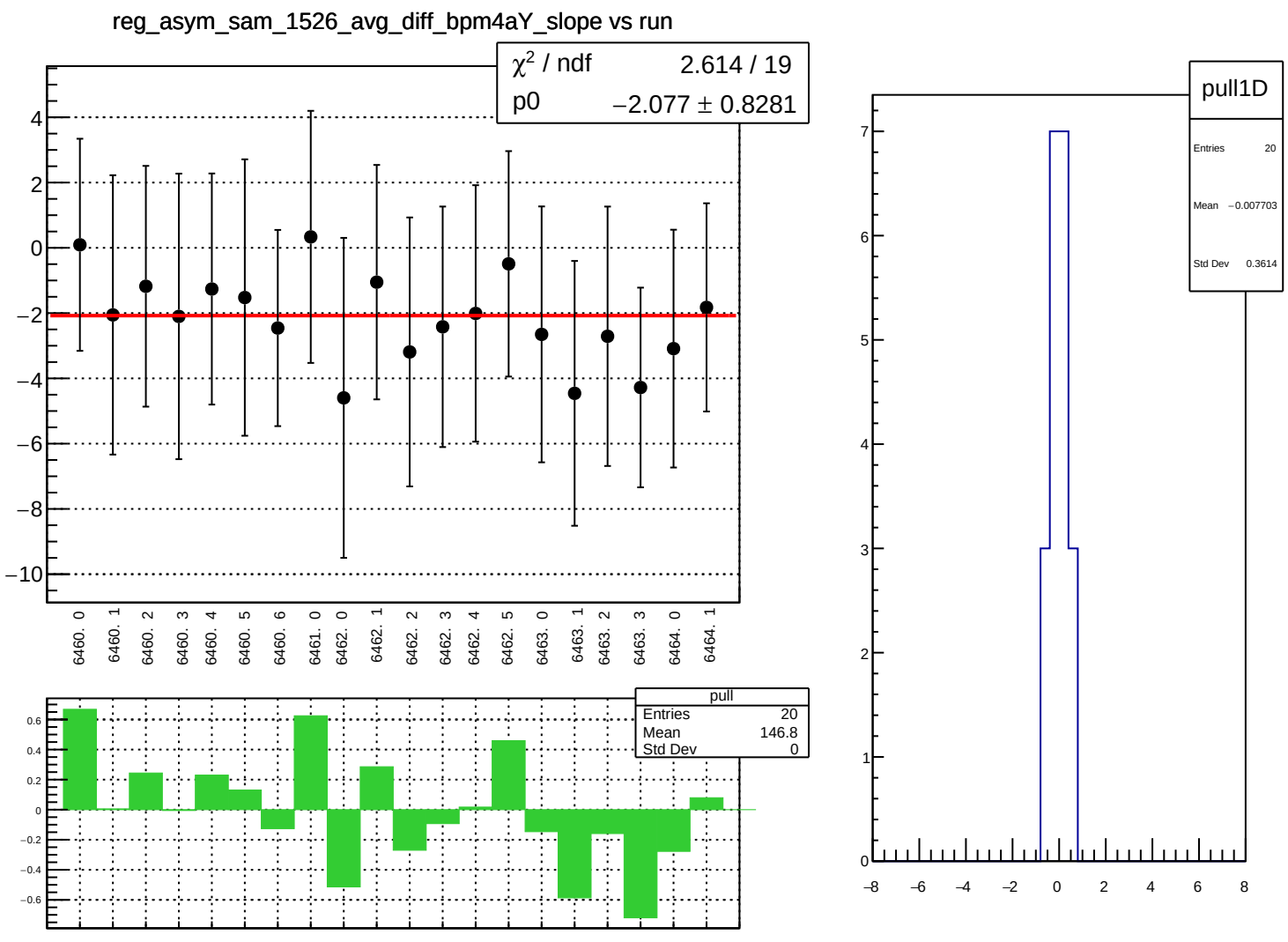

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.018 / 19
p0 −99.78 ± 1.971
−85
−90
−95
−100
−105
−110
−115
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 147.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

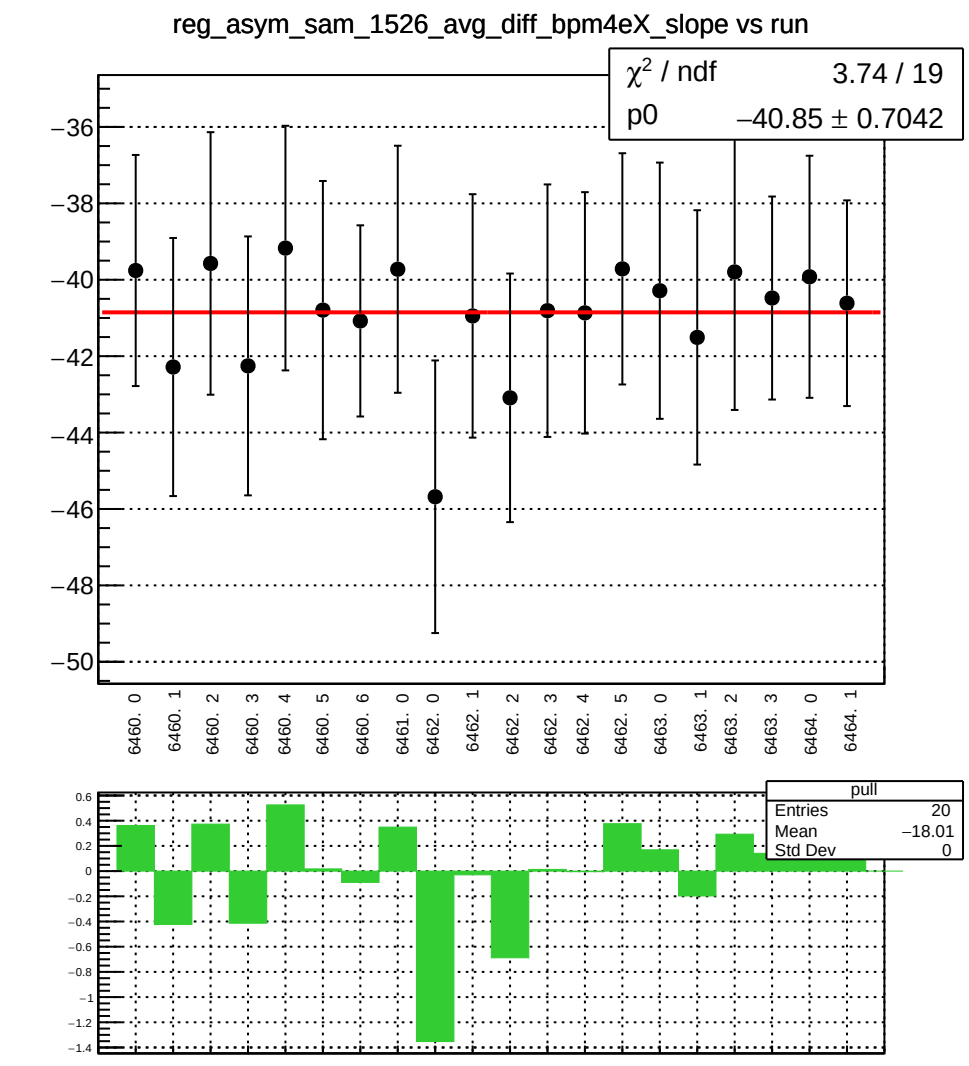

pull1D
Entries 20
Mean −0.001202
Std Dev 0.2256
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

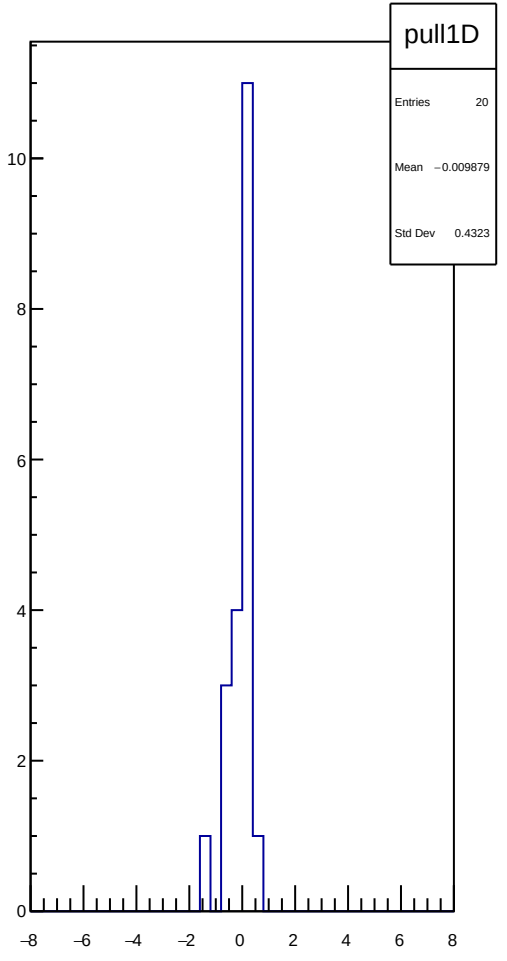

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.224 / 19
p0 75.49 ± 2.346
90
85
80
75
70
65
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −63.73
Std Dev 0
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 20
Mean −0.002776
Std Dev 0.1058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

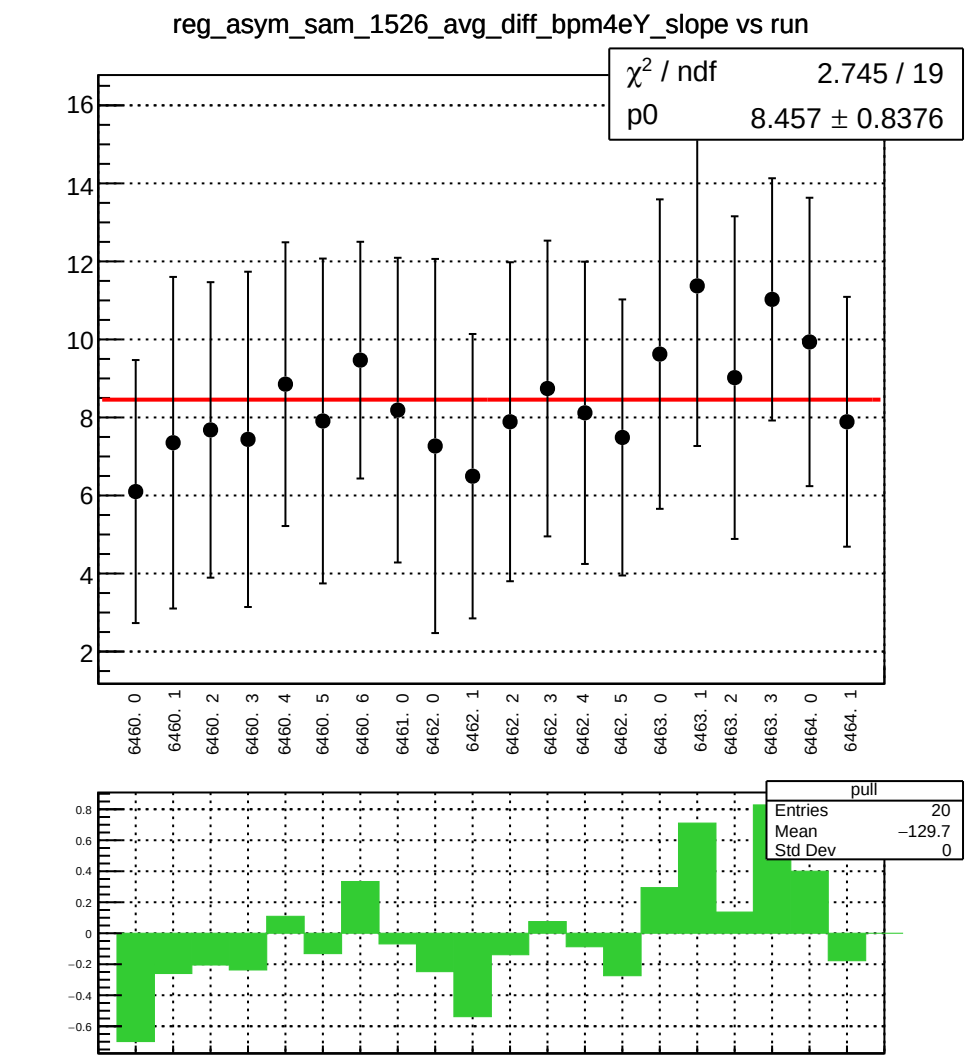

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 0.6525 / 19
p0 0.6443 ± 0.09817
1.2
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −179.7
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean −0.004545
Std Dev 0.1806
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

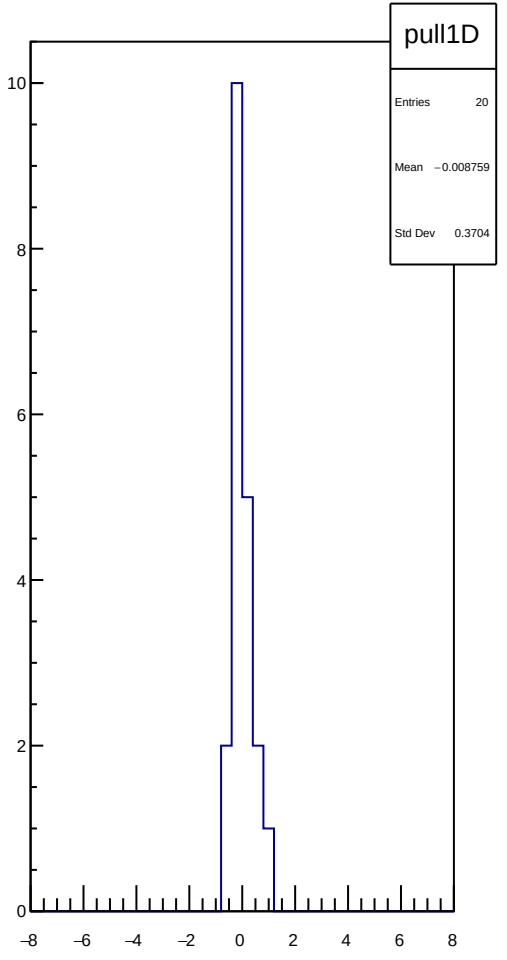

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 0.9776 / 19
p0 −0.3065 ± 0.7099
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −103.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
pull1D
Entries 20
Mean 0.0009384
Std Dev 0.2211
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

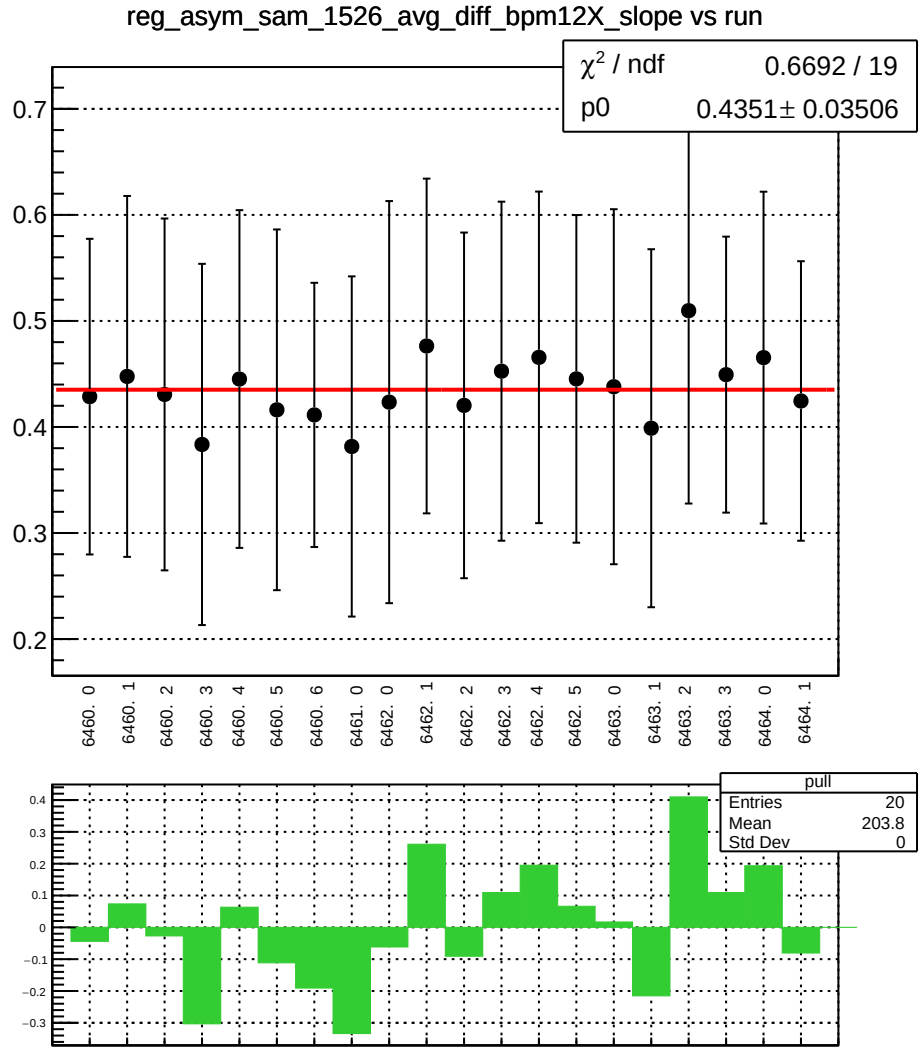

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.614 / 19
p0 −2.077 ± 0.8281
4
2
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 146.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.007703
Std Dev 0.3614
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

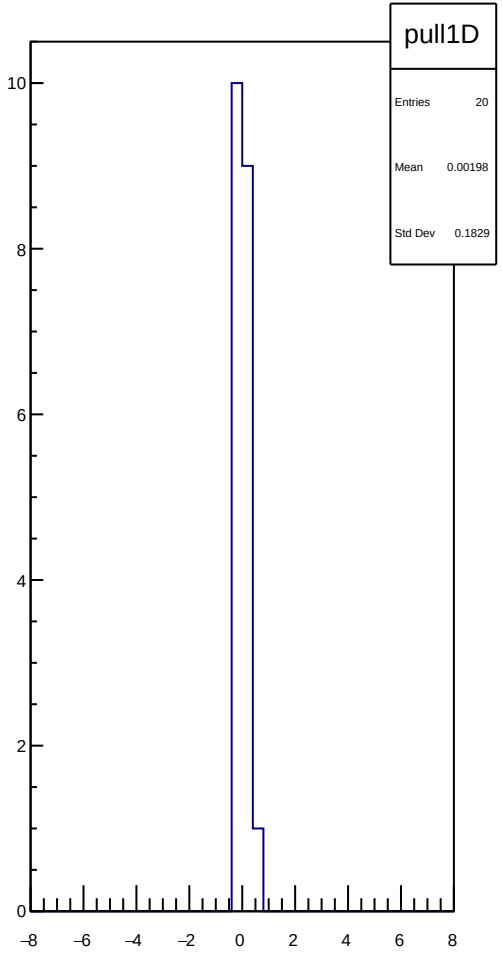

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.74 / 19
p0 −40.85 ± 0.7042
−36
−38
−40
−42
−44
−46
−48
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −18.01
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

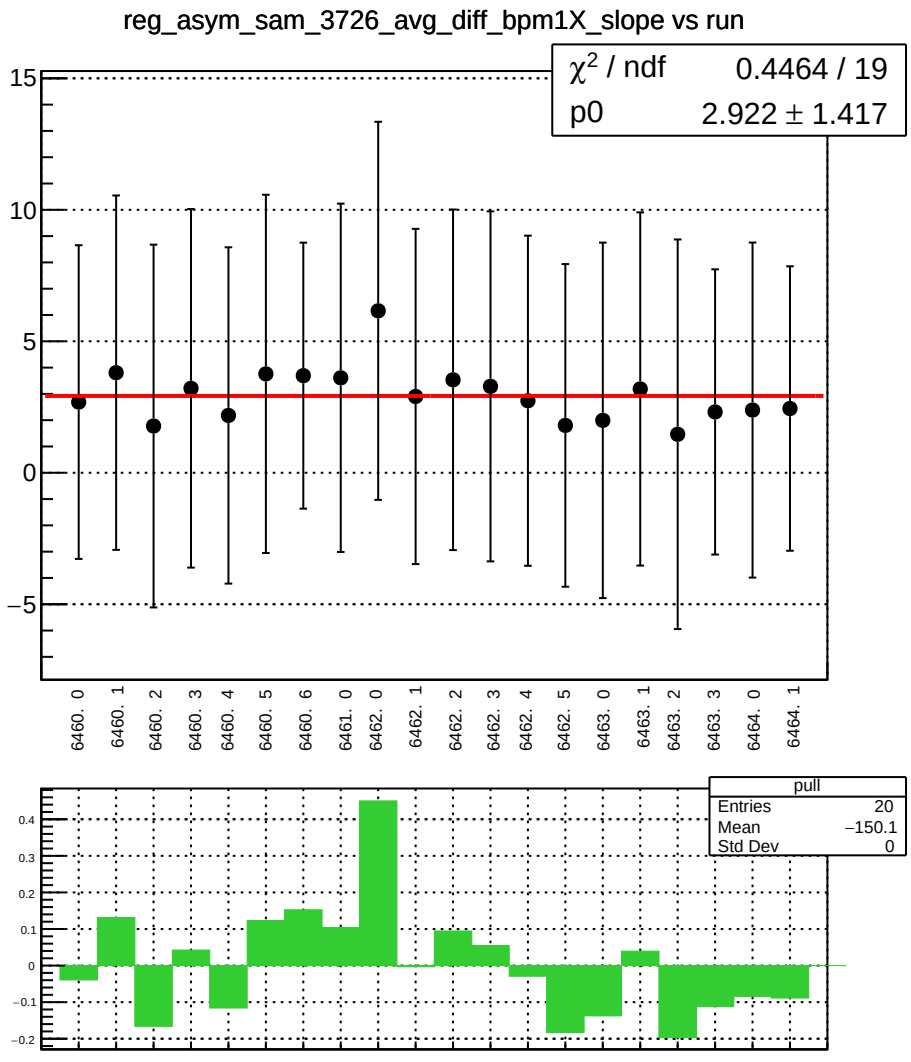

pull1D
Entries 20
Mean −0.009879
Std Dev 0.4323
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

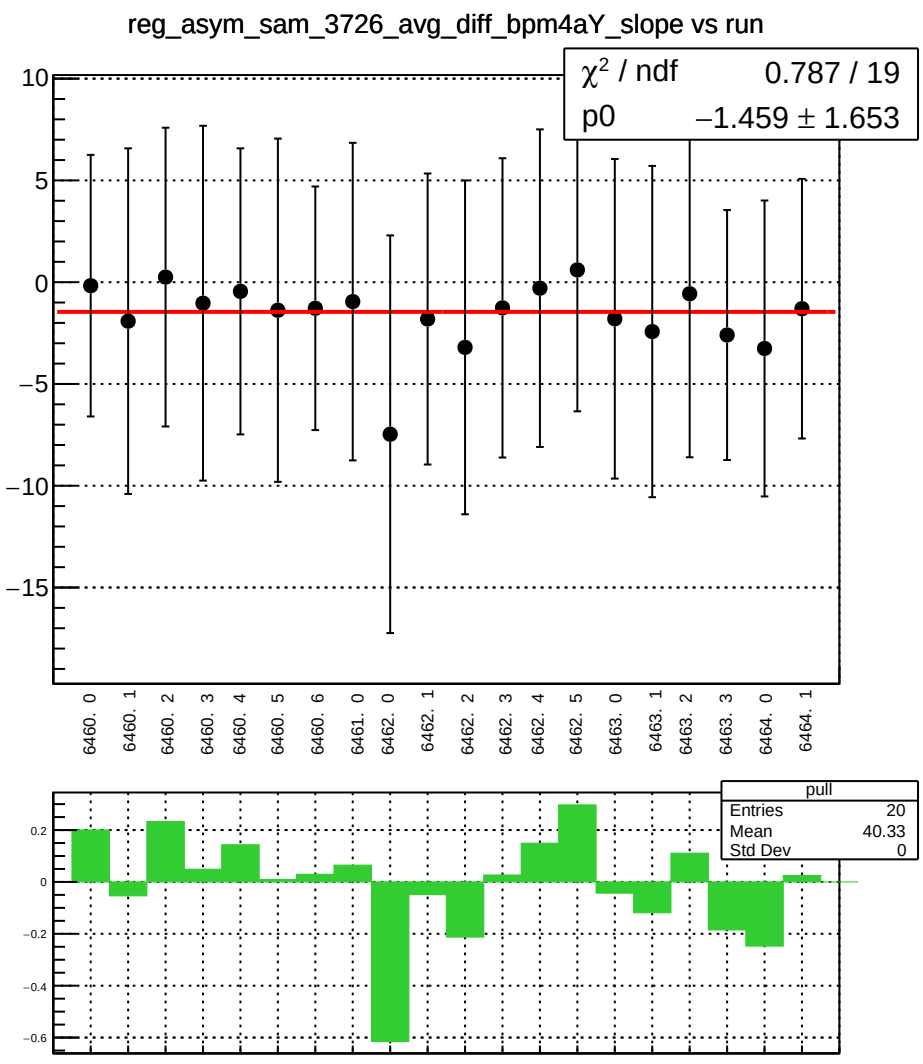

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.745 / 19
p0 8.457 ± 0.8376
16
14
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −129.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

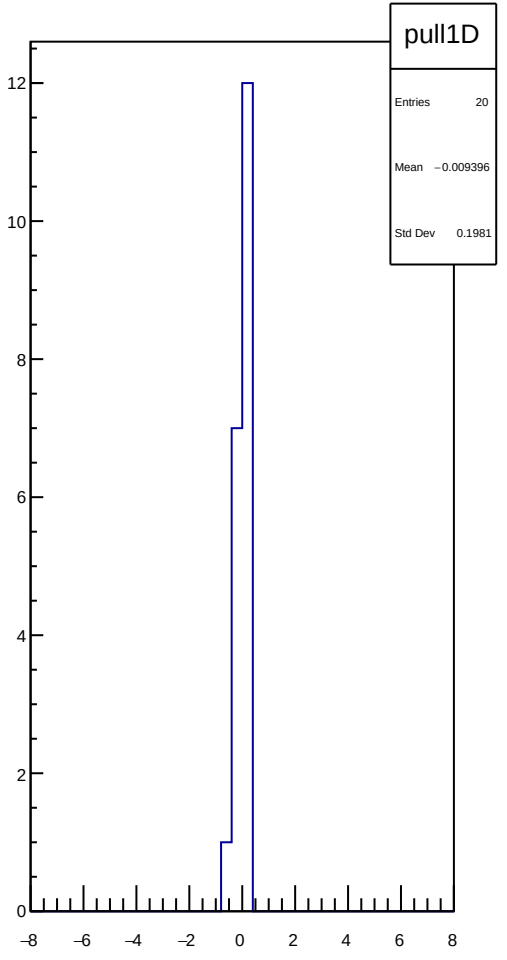

pull1D
Entries 20
Mean −0.008759
Std Dev 0.3704
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

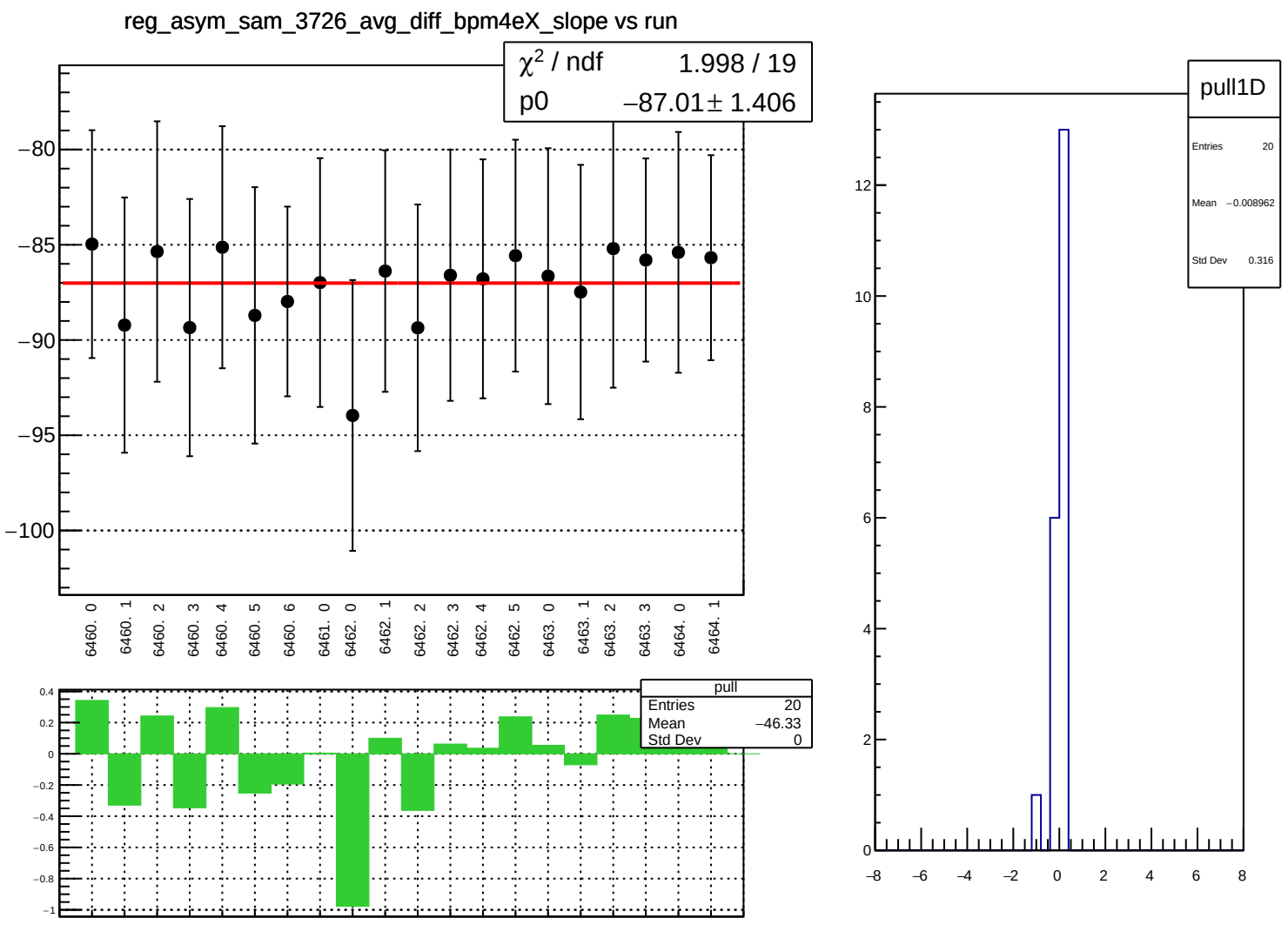

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 0.6692 / 19
p0 0.4351± 0.03506
0.7
0.6
0.5
0.4
0.3
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 203.8
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

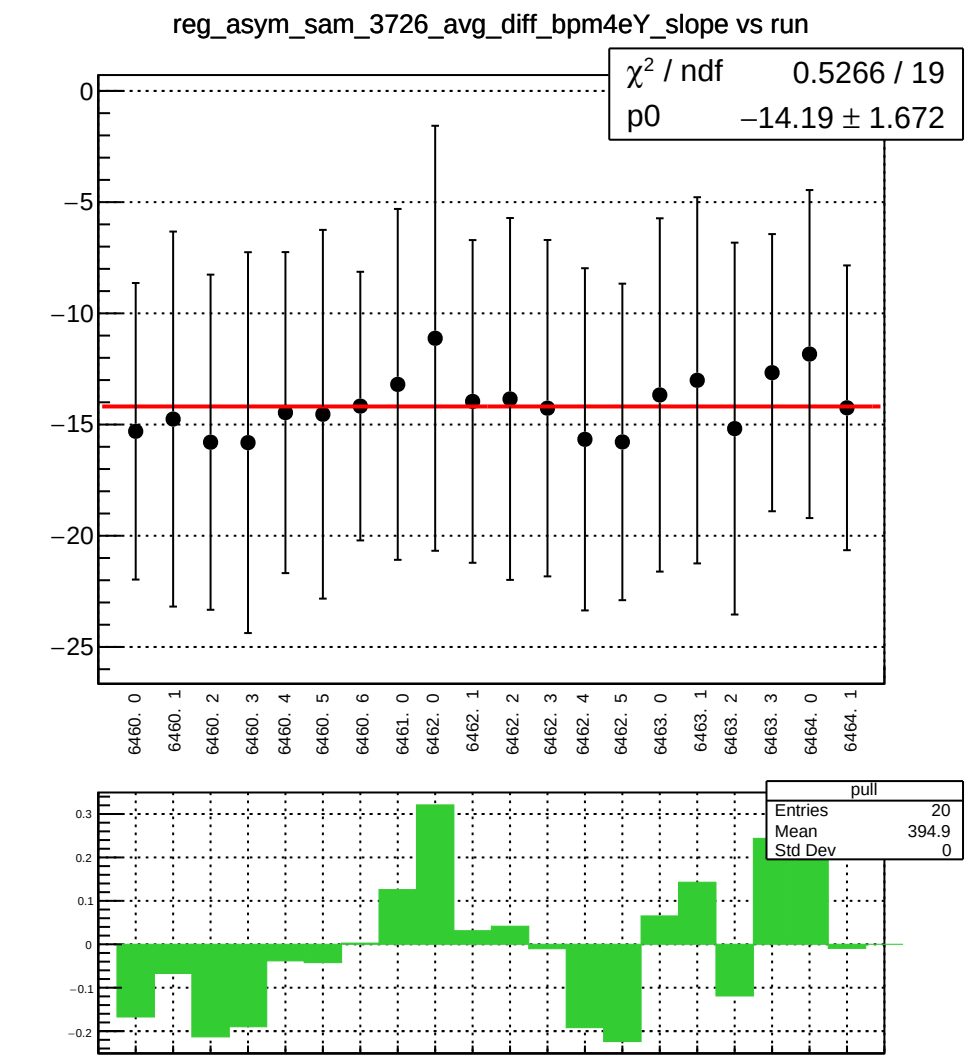

pull1D
Entries 20
Mean 0.00198
Std Dev 0.1829
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

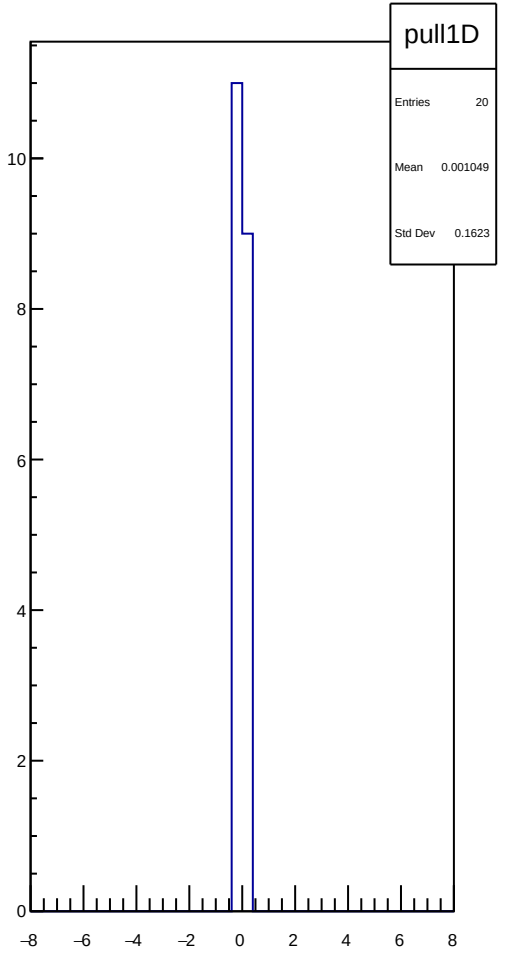

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 0.4464 / 19
p0 2.922 ± 1.417
15
10
5
0
−5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −150.1
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 20
Mean 0.001819
Std Dev 0.1494
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

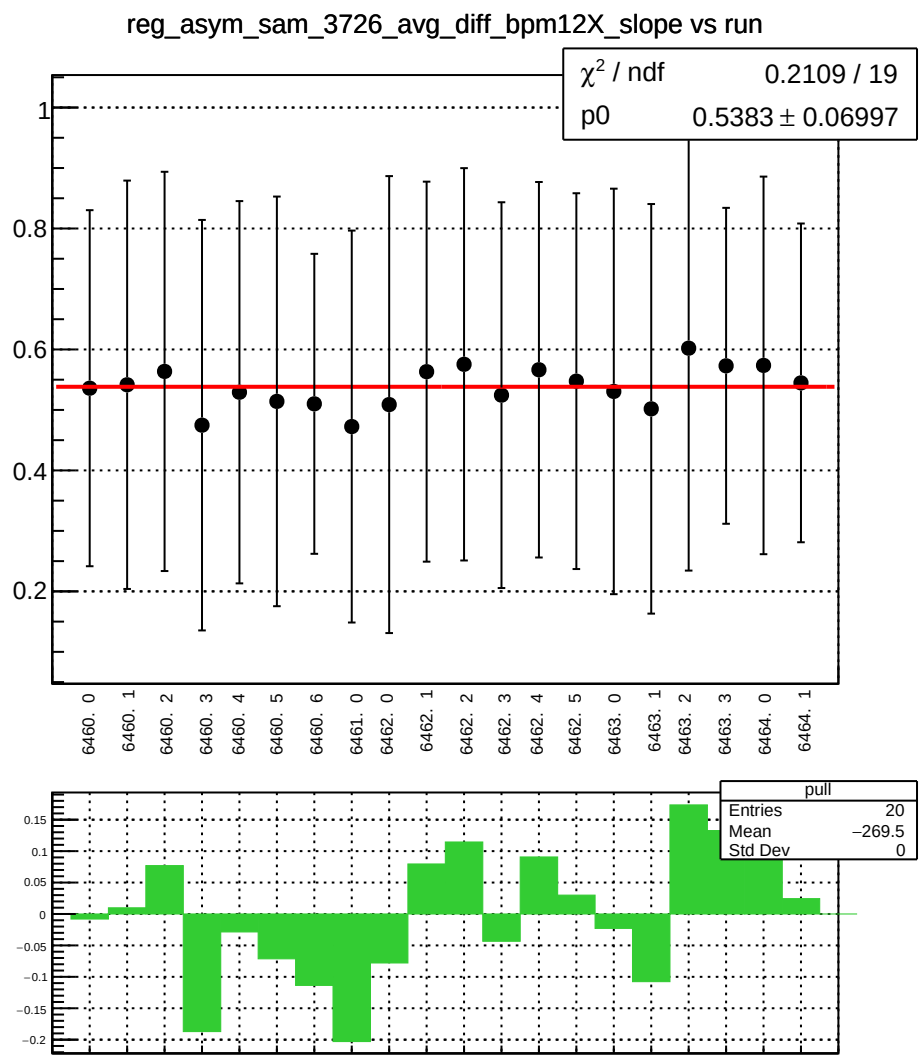

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.787 / 19
p0 −1.459 ± 1.653
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 40.33
Std Dev 0
0.2
0
−0.2
−0.4
−0.6

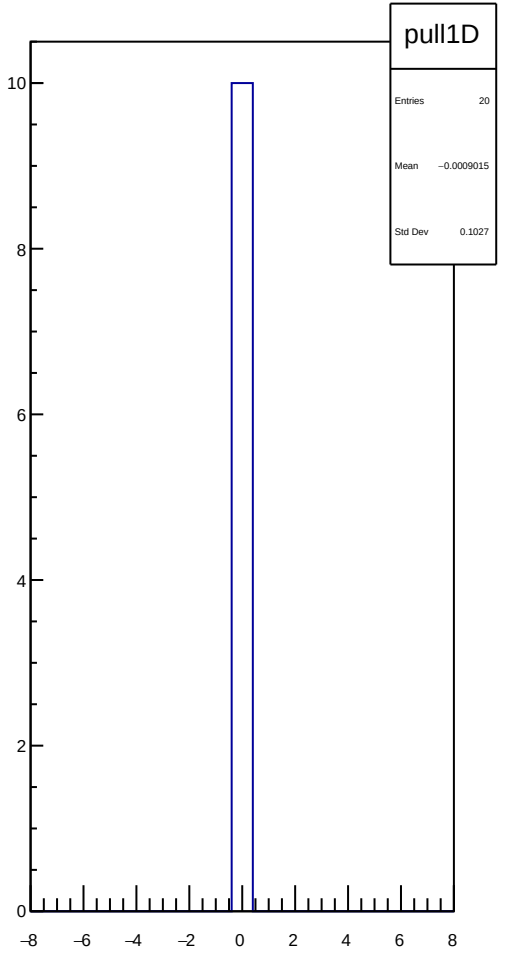

pull1D
Entries 20
Mean −0.009396
Std Dev 0.1981
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

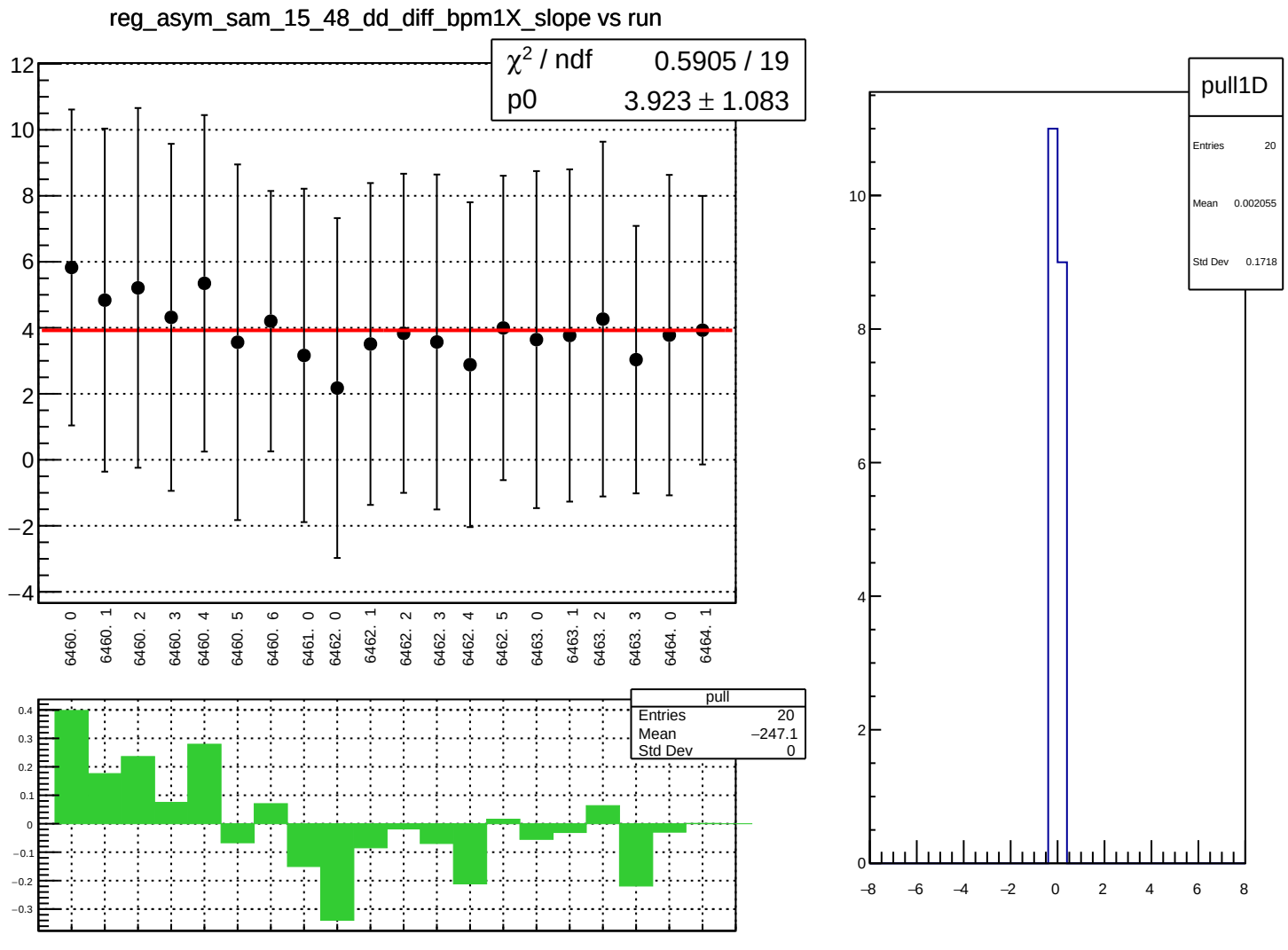

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.998 / 19
p0 −87.01± 1.406
−80
−85
−90
−95
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −46.33
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 20
Mean −0.008962
Std Dev 0.316
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

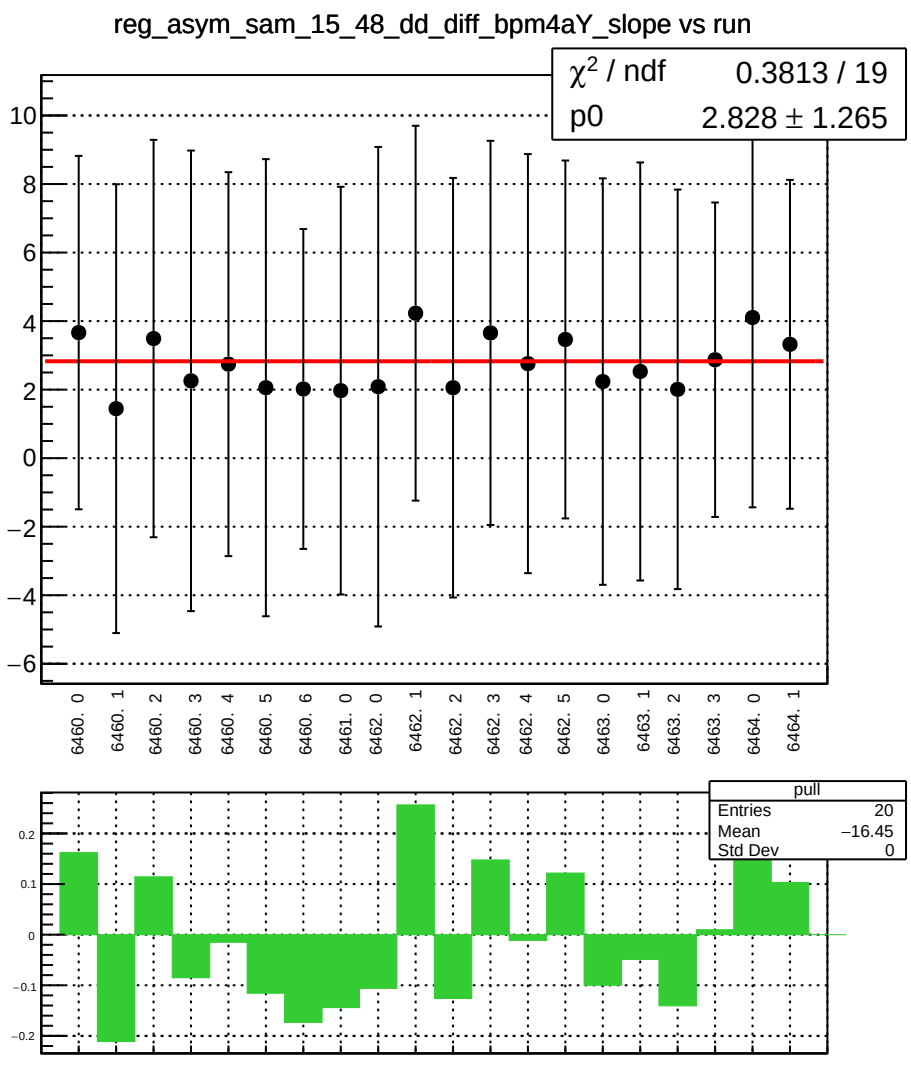

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5266 / 19
p0 −14.19 ± 1.672
0
−5
−10
−15
−20
−25
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 394.9
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2

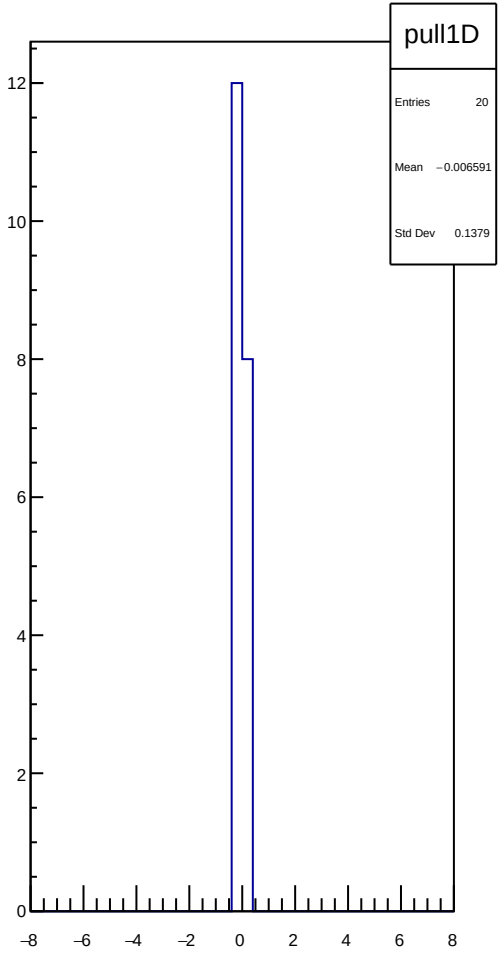

pull1D
Entries 20
Mean 0.001049
Std Dev 0.1623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

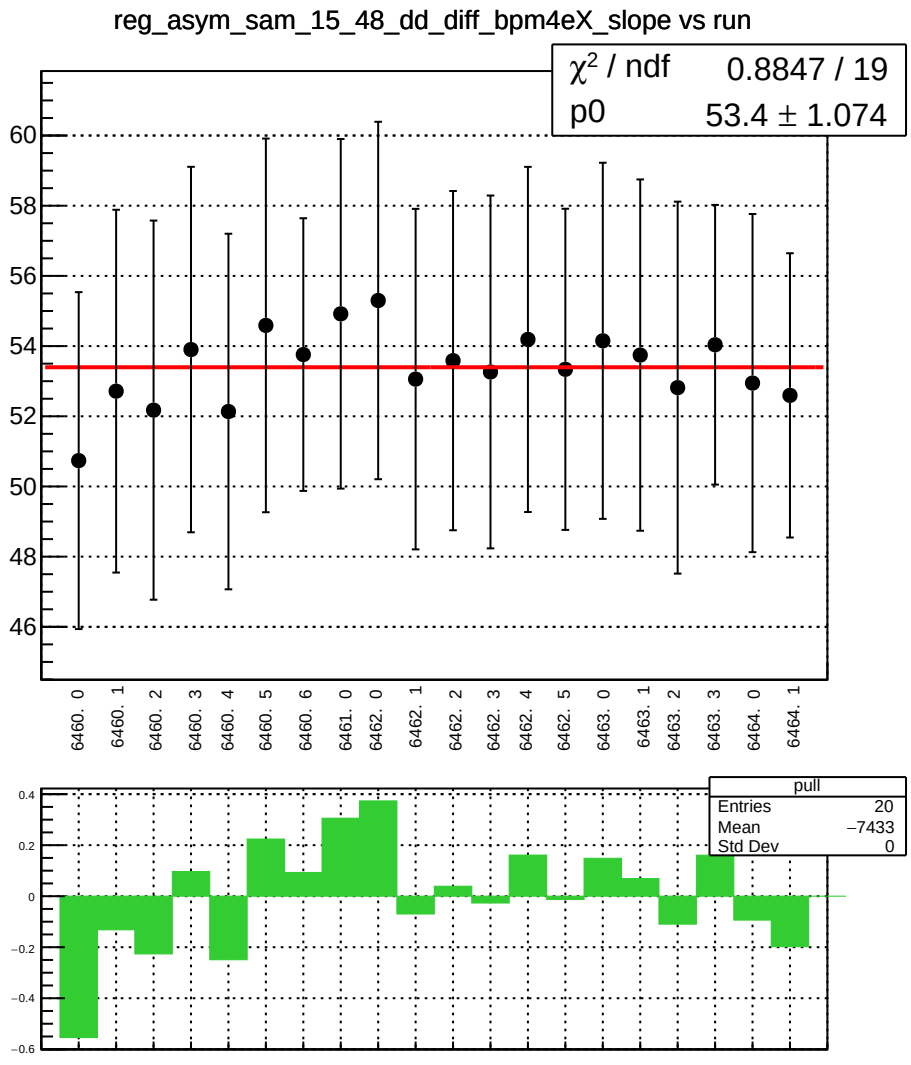

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 0.2109 / 19
p0 0.5383 ± 0.06997
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −269.5
Std Dev 0
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

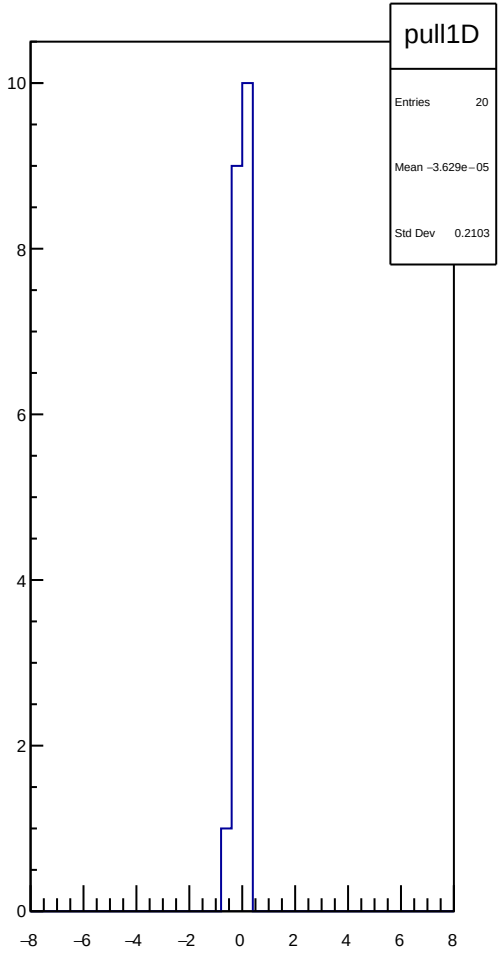

pull1D
Entries 20
Mean −0.0009015
Std Dev 0.1027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

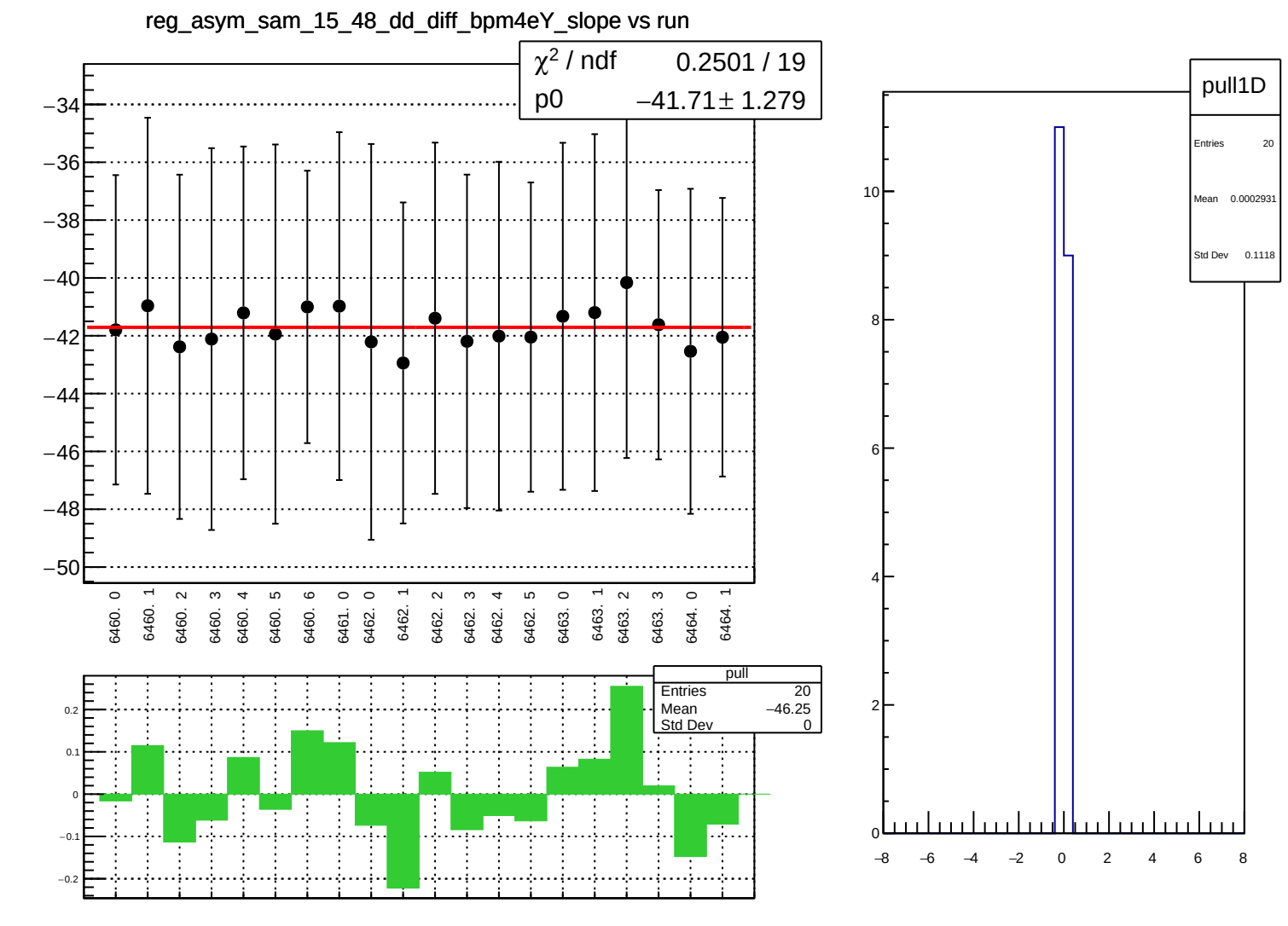

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5905 / 19
p0 3.923 ± 1.083
12
10
8
6
4
2
0
−2
−4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −247.1
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean 0.002055
Std Dev 0.1718
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

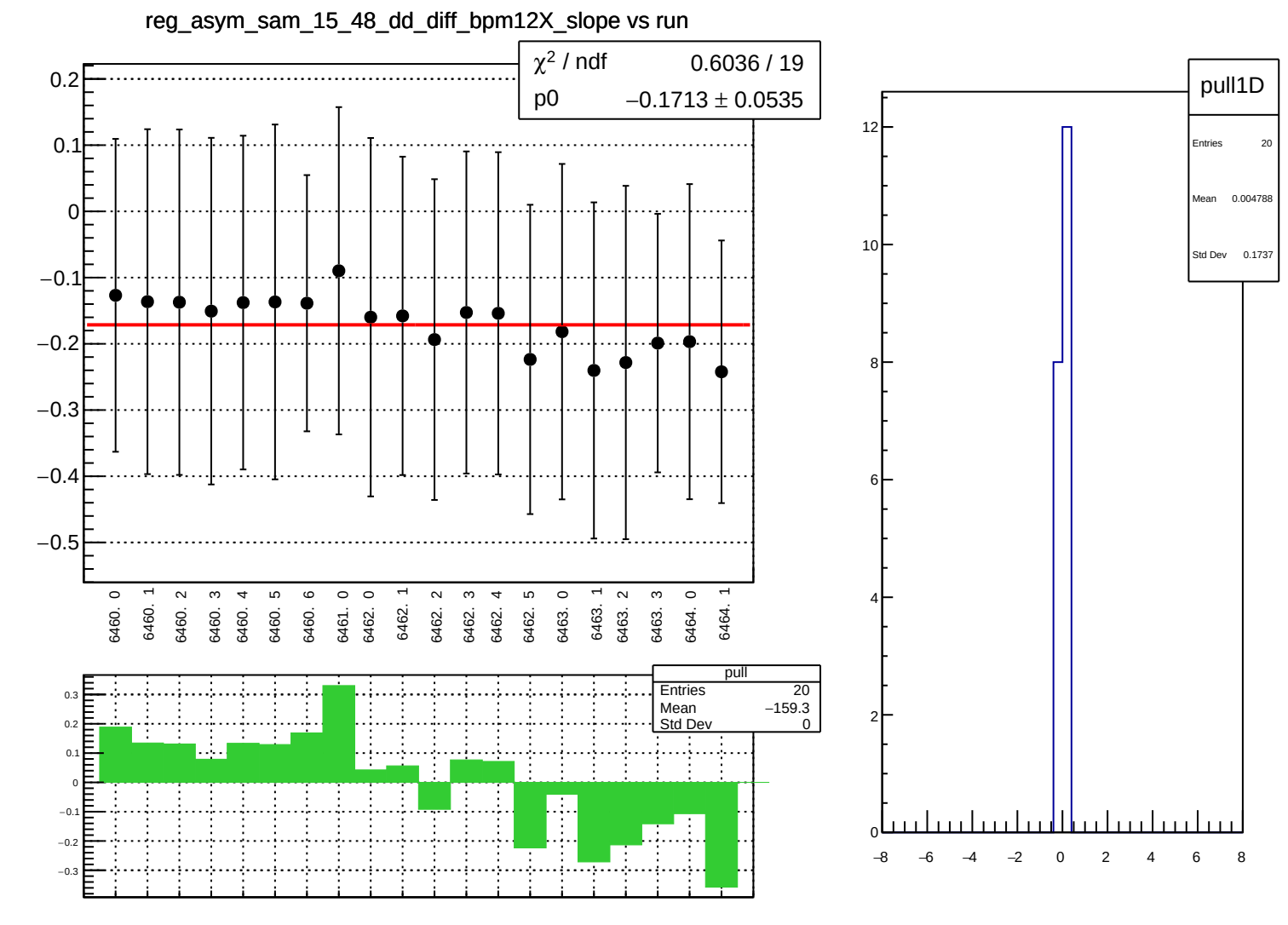

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.3813 / 19
p0 2.828 ± 1.265
10
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −16.45
Std Dev 0
0.2
0.1
0
−0.1
−0.2

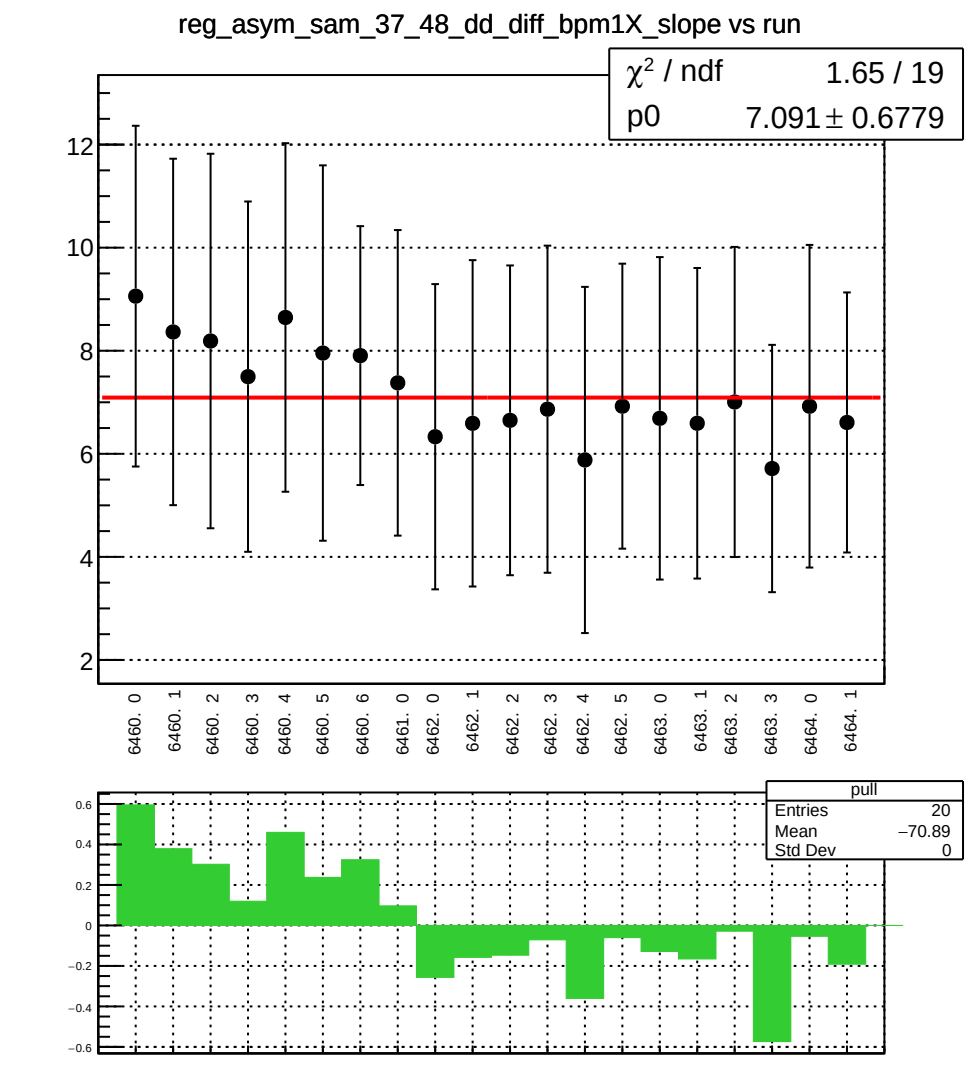

pull1D
Entries 20
Mean −0.006591
Std Dev 0.1379
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

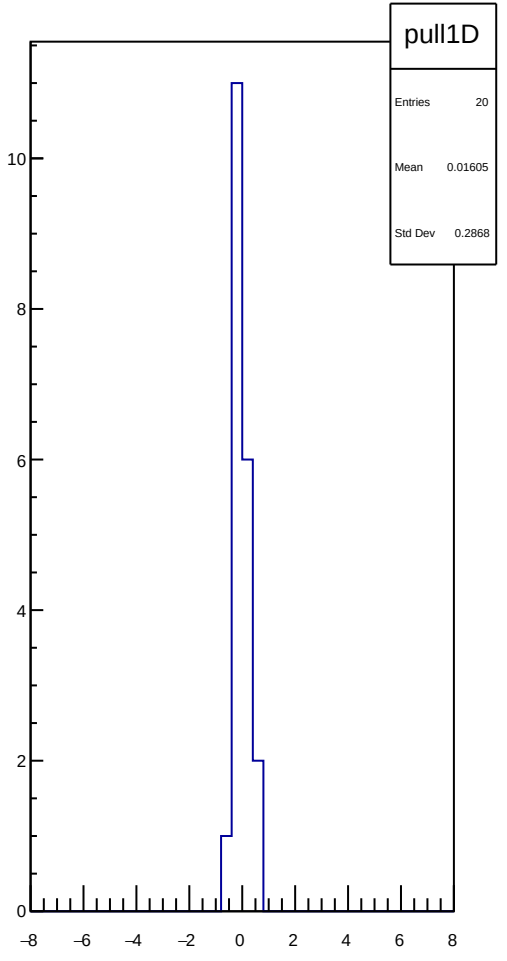

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8847 / 19
p0 53.4 ± 1.074
60
58
56
54
52
50
48
46
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −7433
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

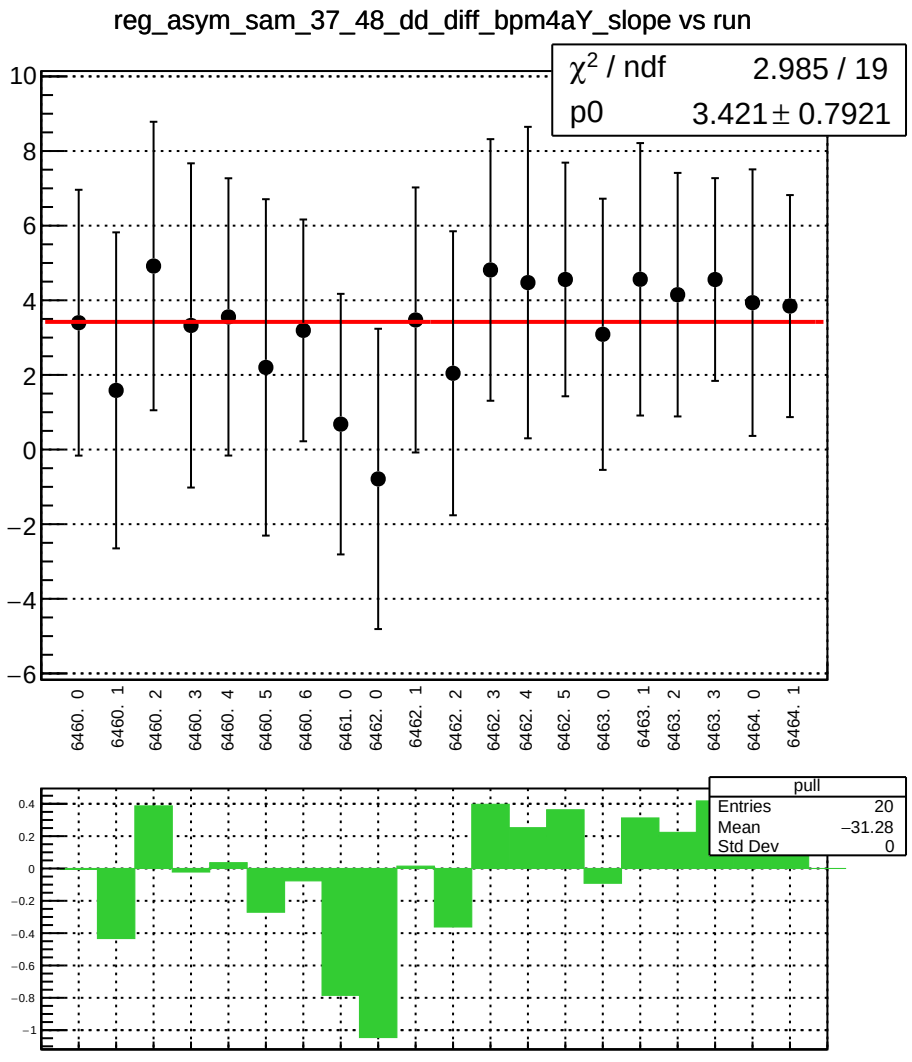

pull1D
Entries 20
Mean −3.629e−05
Std Dev 0.2103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

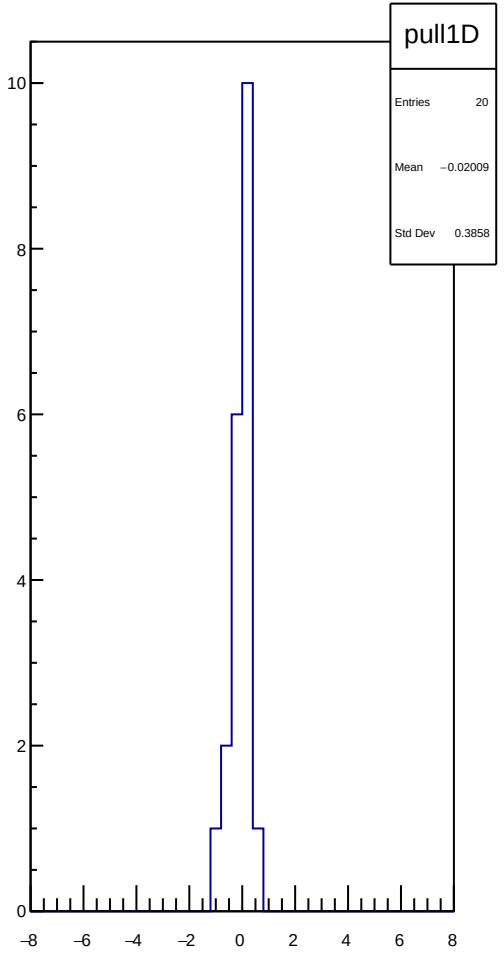

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.2501 / 19
p0 −41.71± 1.279
−34
−36
−38
−40
−42
−44
−46
−48
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −46.25
Std Dev 0
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 20
Mean 0.0002931
Std Dev 0.1118
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

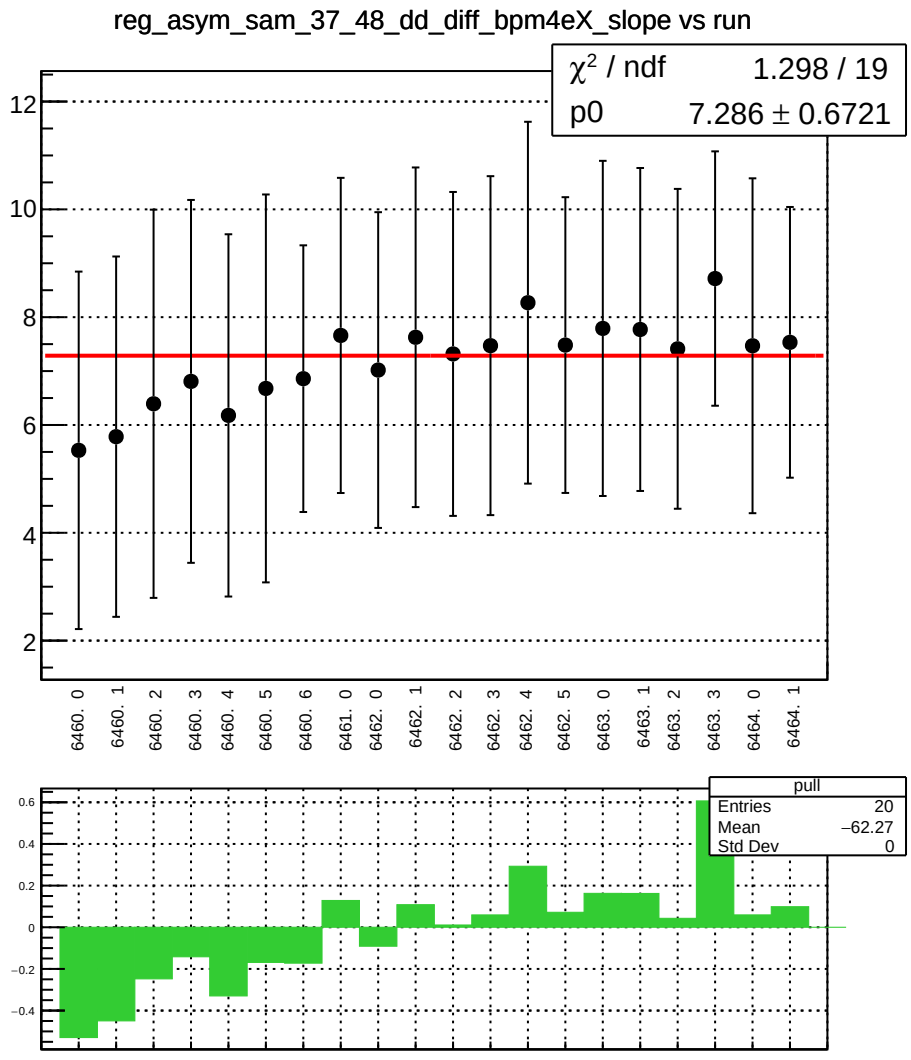

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6036 / 19
p0 −0.1713 ± 0.0535
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −159.3
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean 0.004788
Std Dev 0.1737
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

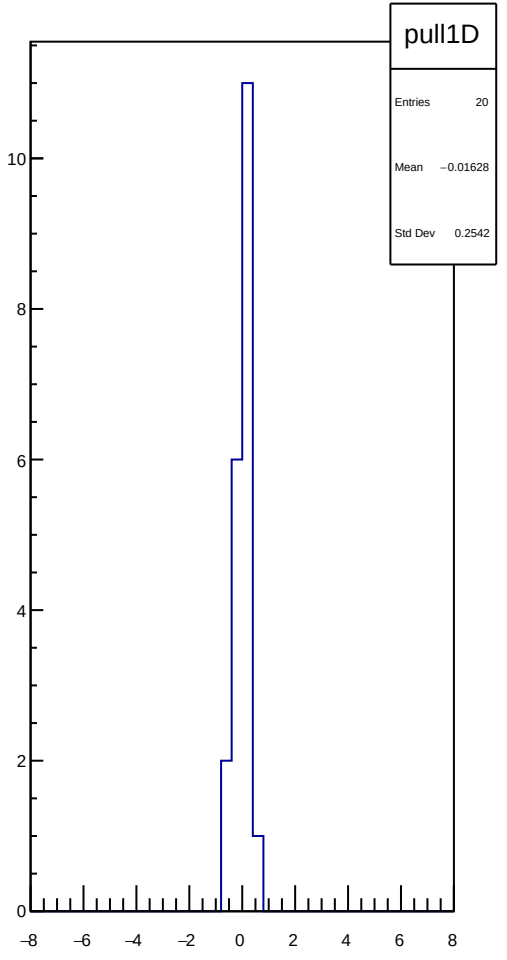

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.65 / 19
p0 7.091 ± 0.6779
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −70.89
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

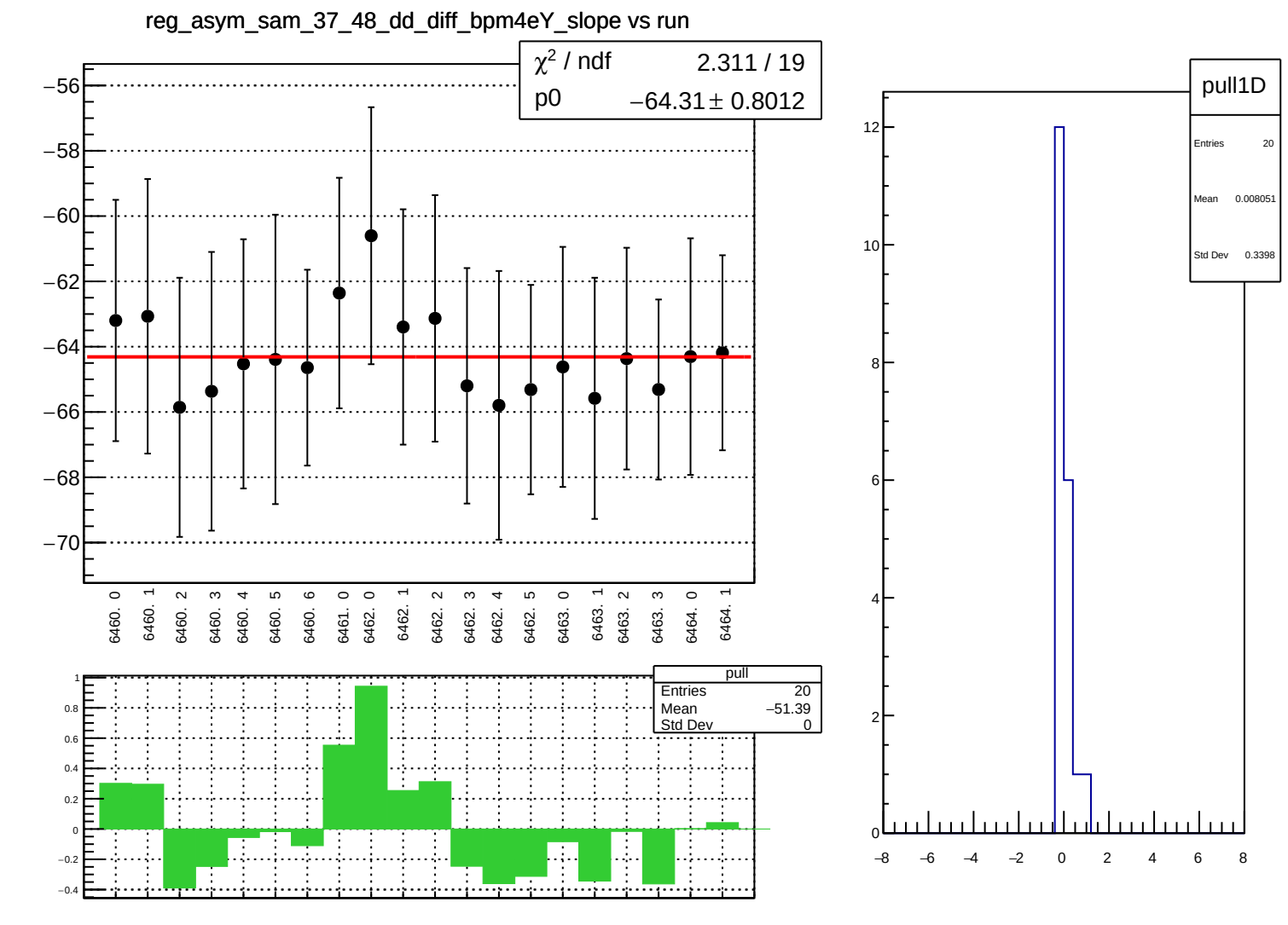

pull1D
Entries 20
Mean 0.01605
Std Dev 0.2868
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

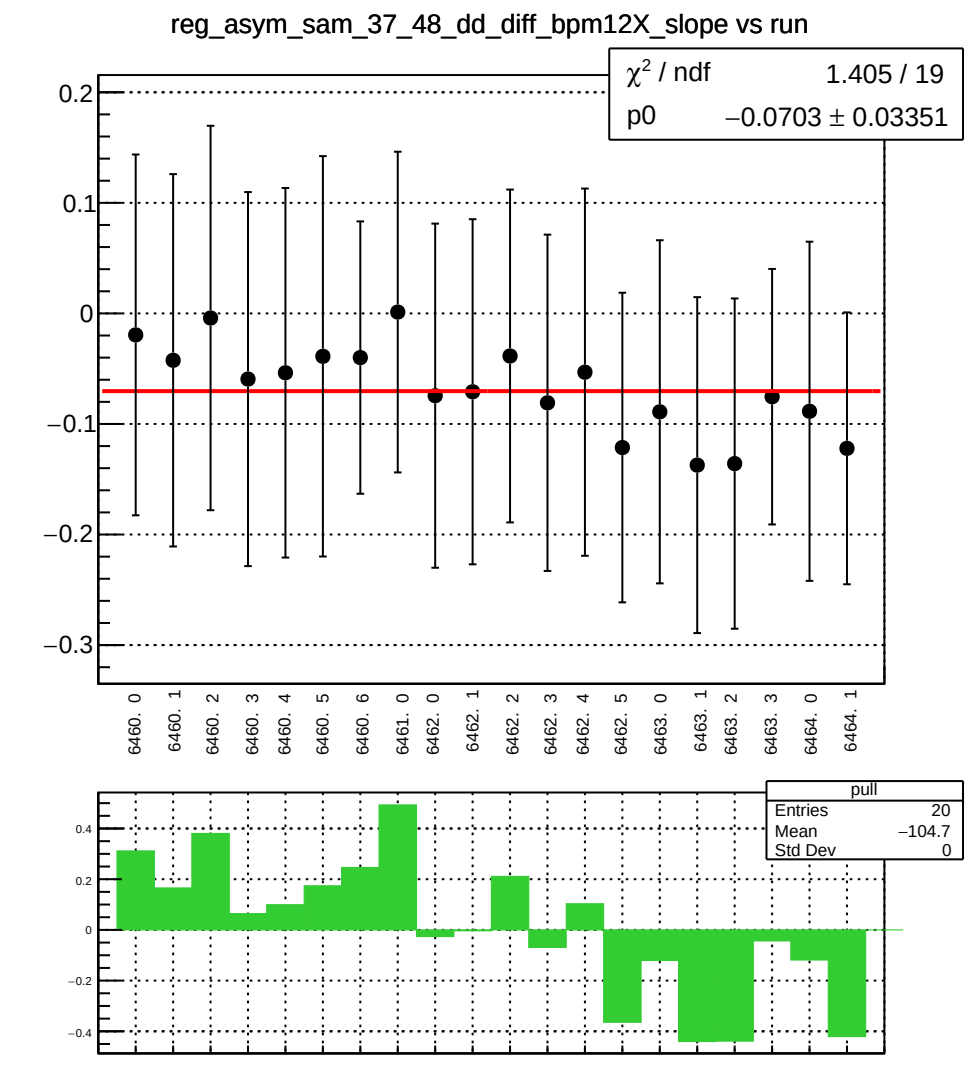

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.985 / 19
p0 3.421 ± 0.7921
10
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −31.28
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

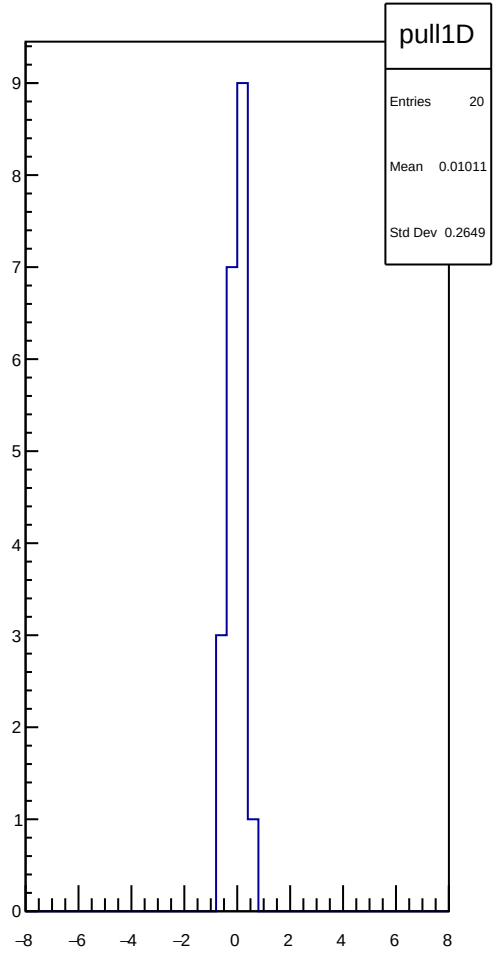

pull1D
Entries 20
Mean −0.02009
Std Dev 0.3858
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

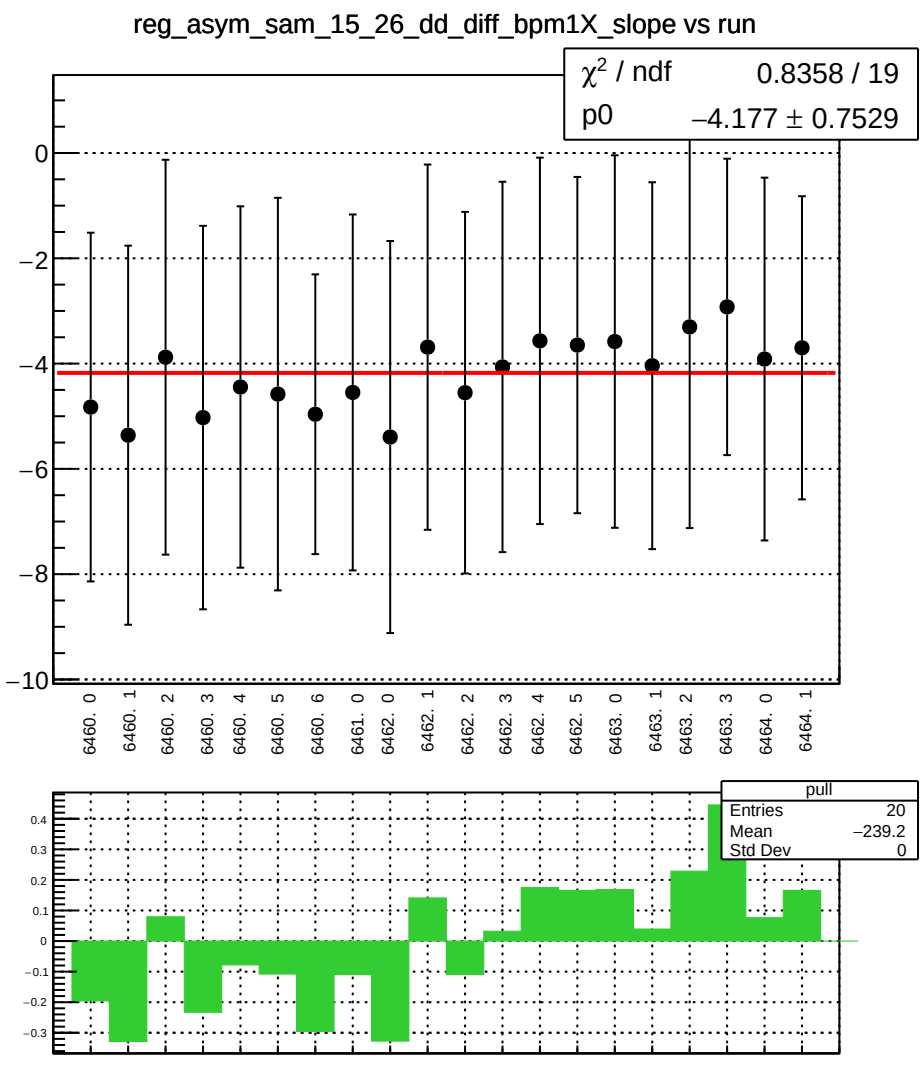

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.298 / 19
p0 7.286 ± 0.6721
12
10
8
6
4
2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −62.27
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

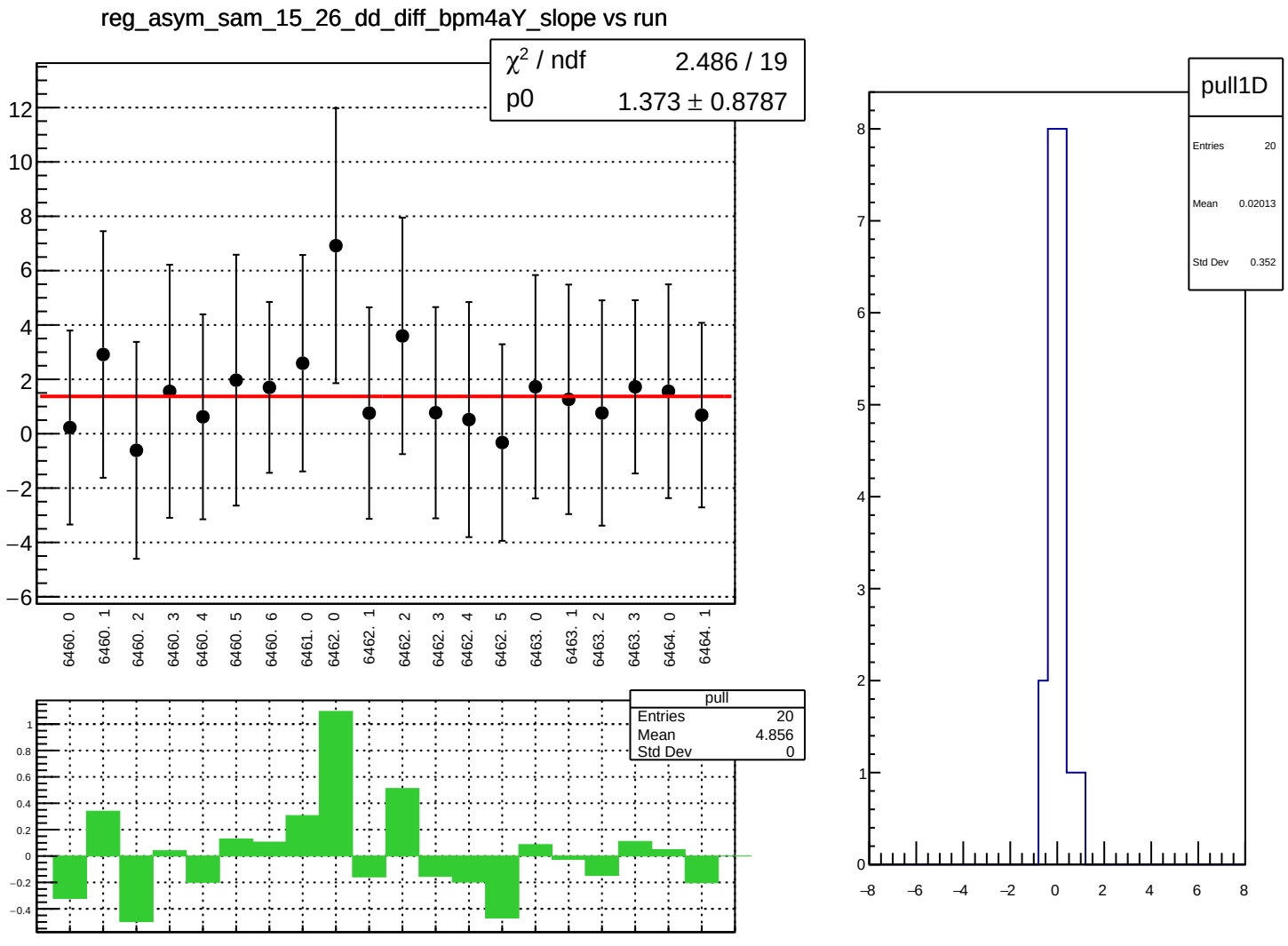

pull1D
Entries 20
Mean −0.01628
Std Dev 0.2542
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

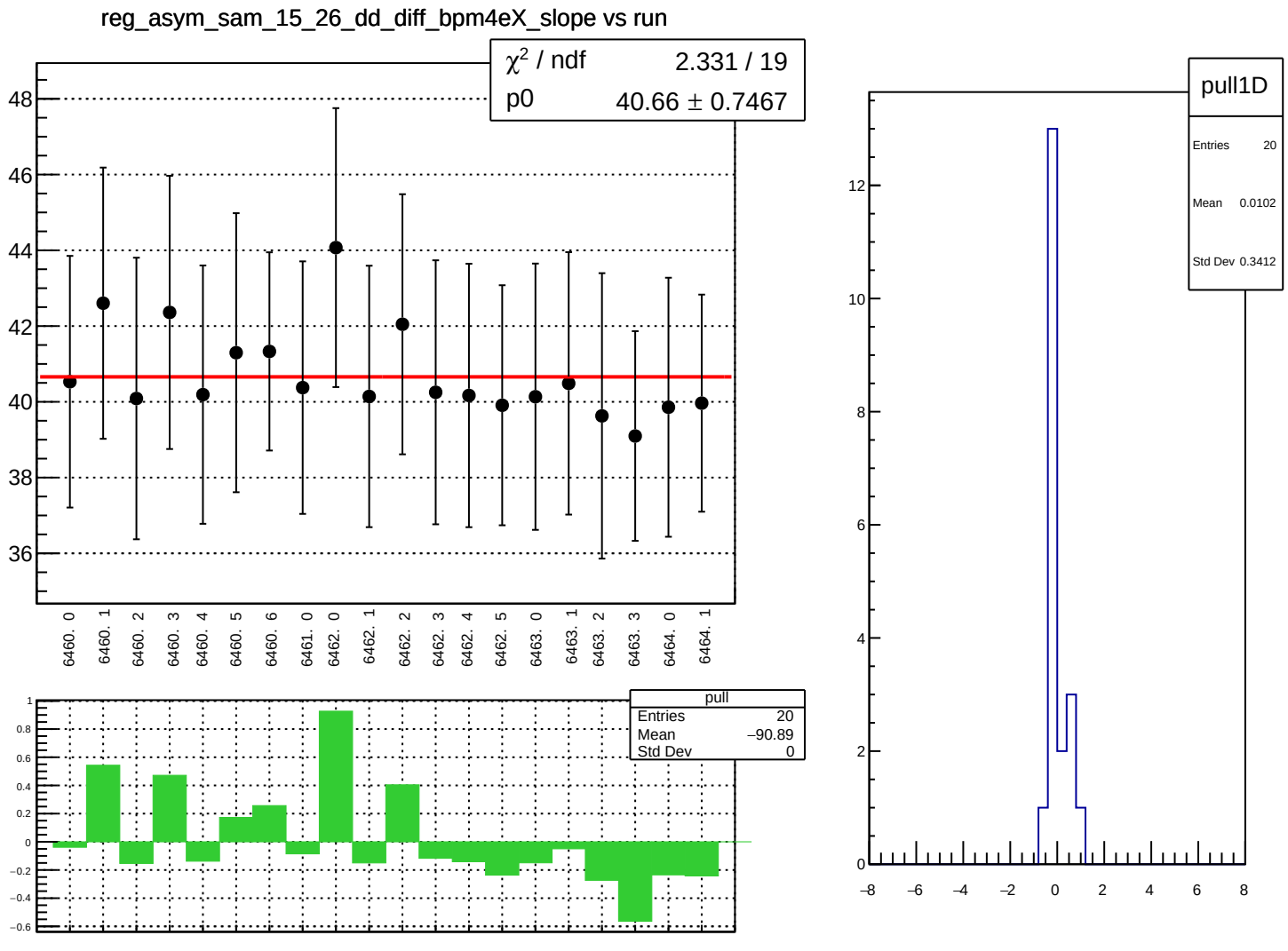

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.311 / 19
p0 −64.31 ± 0.8012
−56
−58
−60
−62
−64
−66
−68
−70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −51.39
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean 0.008051
Std Dev 0.3398
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

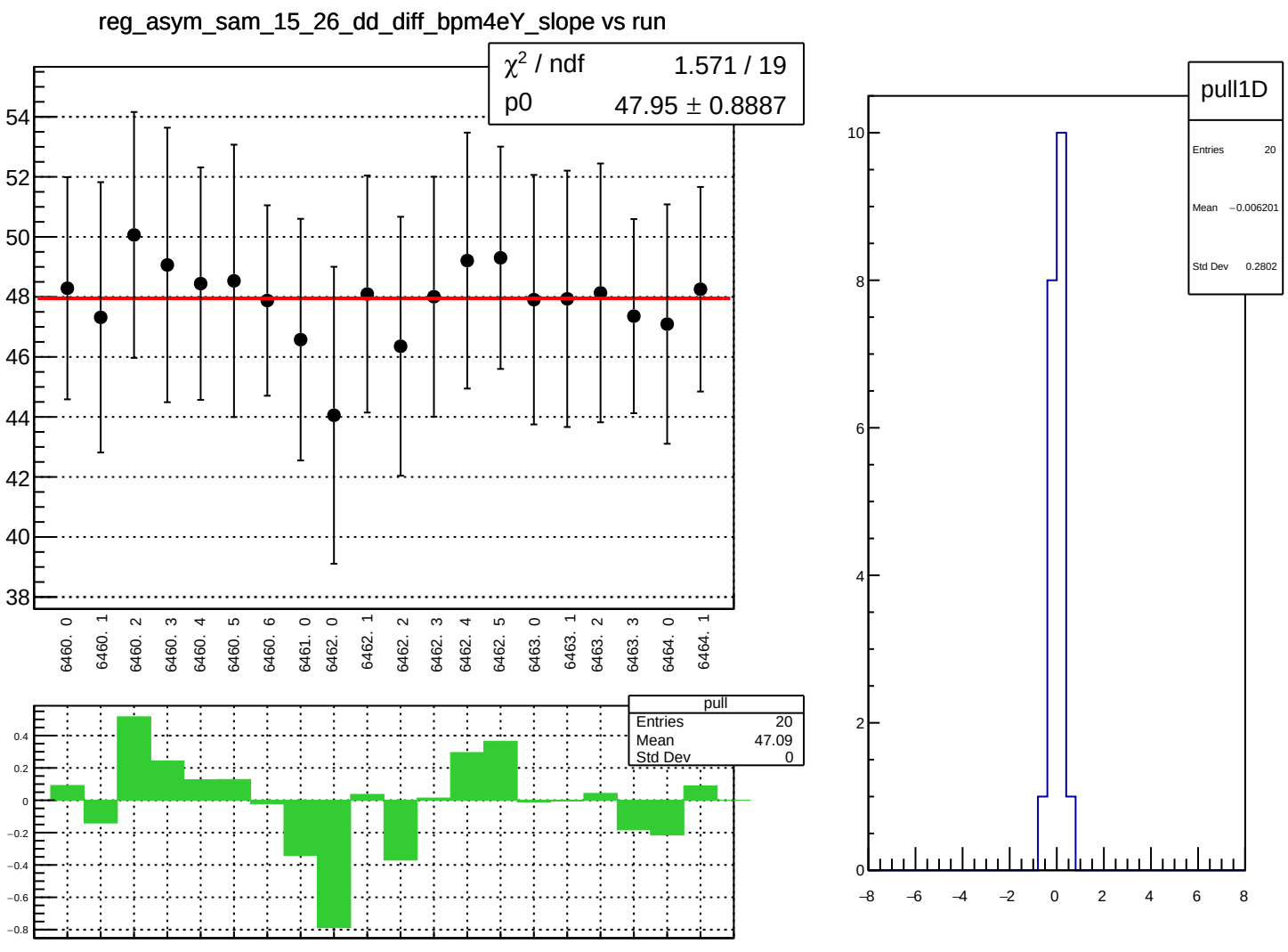

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.405 / 19
p0 −0.0703 ± 0.03351
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −104.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4

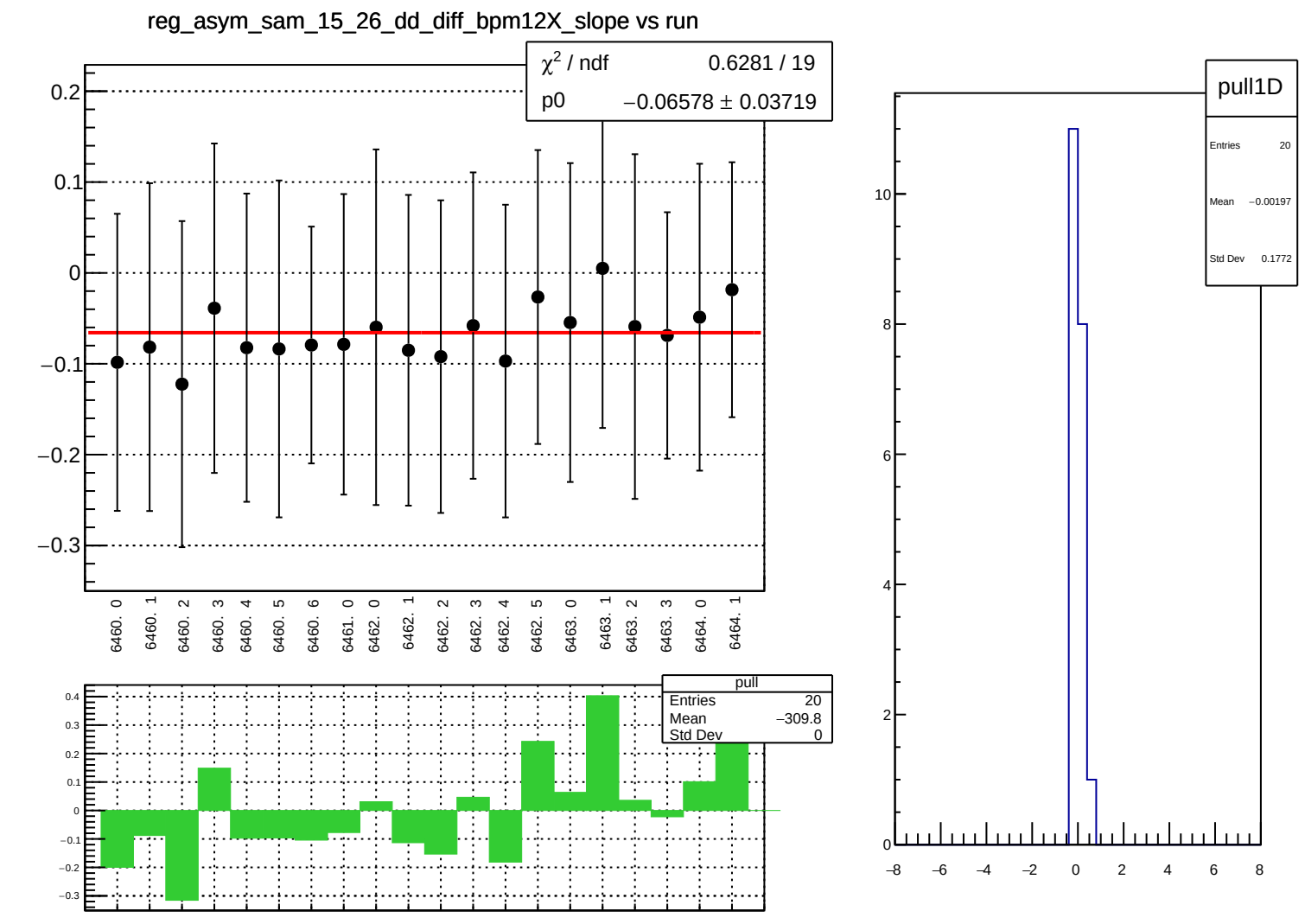

pull1D
Entries 20
Mean 0.01011
Std Dev 0.2649
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

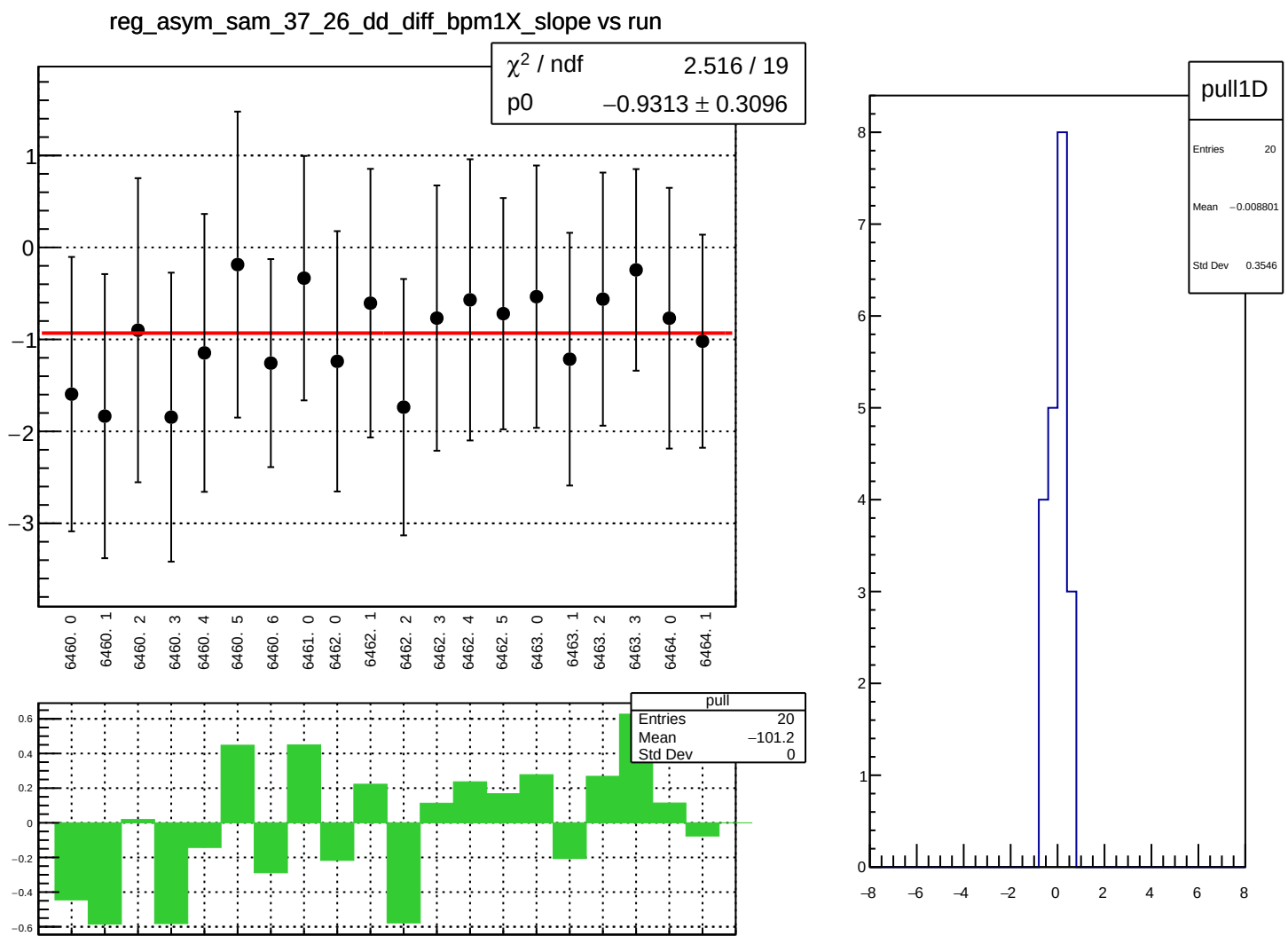

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.8358 / 19
p0 −4.177 ± 0.7529
0
−2
−4
−6
−8
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −239.2
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean −0.003461
Std Dev 0.2044
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

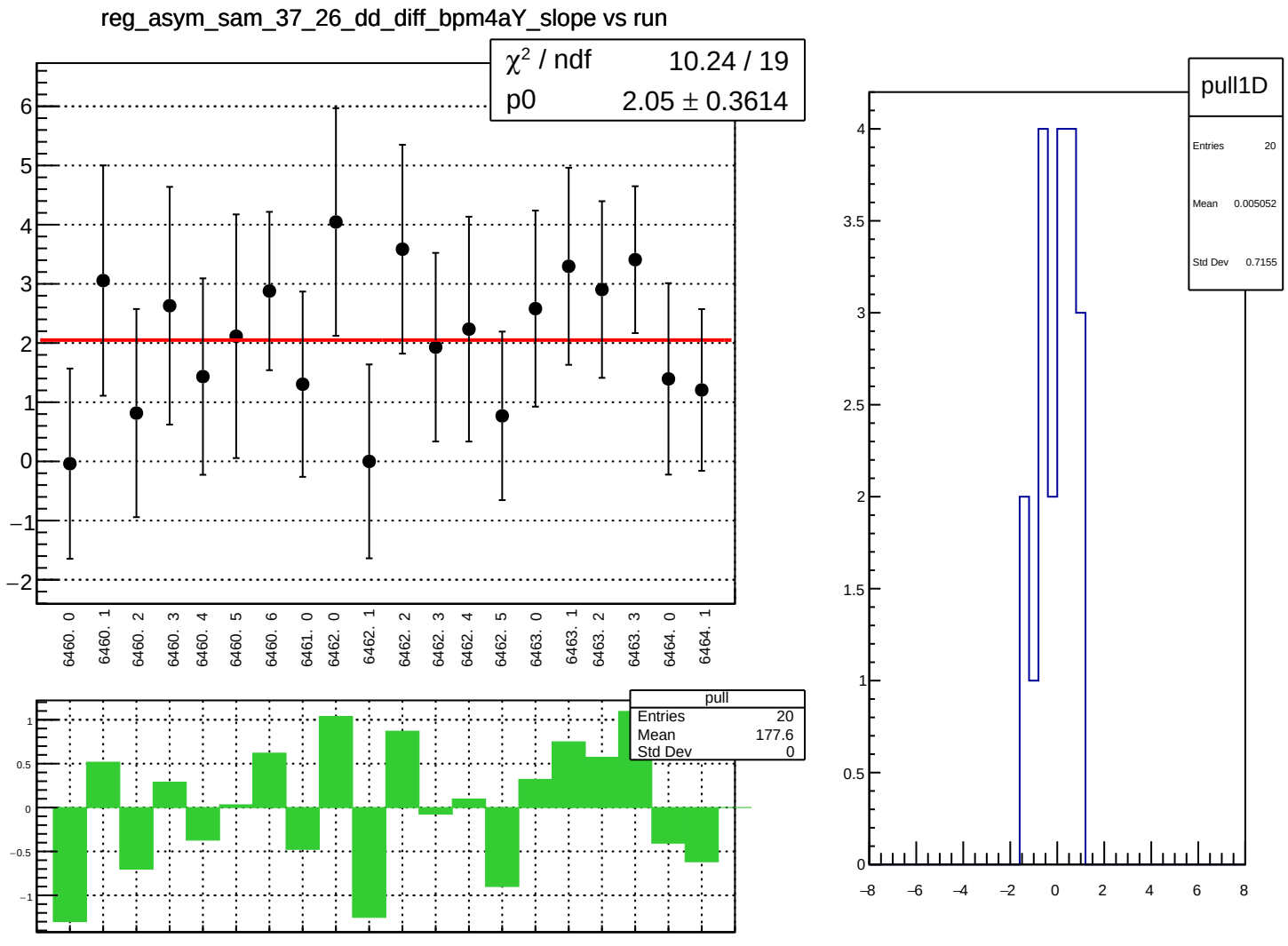

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.486 / 19
p0 1.373 ± 0.8787
12
10
8
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 4.856
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean 0.02013
Std Dev 0.352
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

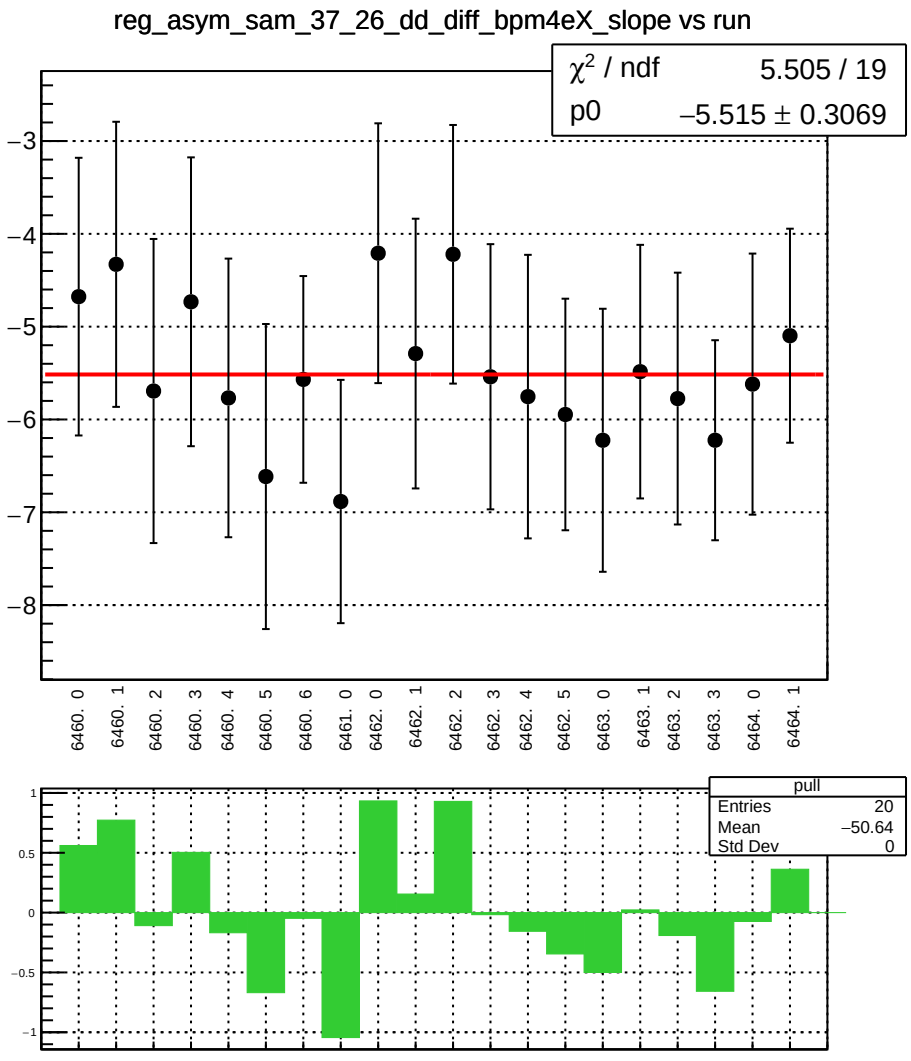

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.331 / 19
p0 40.66 ± 0.7467
48
46
44
42
40
38
36
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −90.89
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.0102
Std Dev 0.3412
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

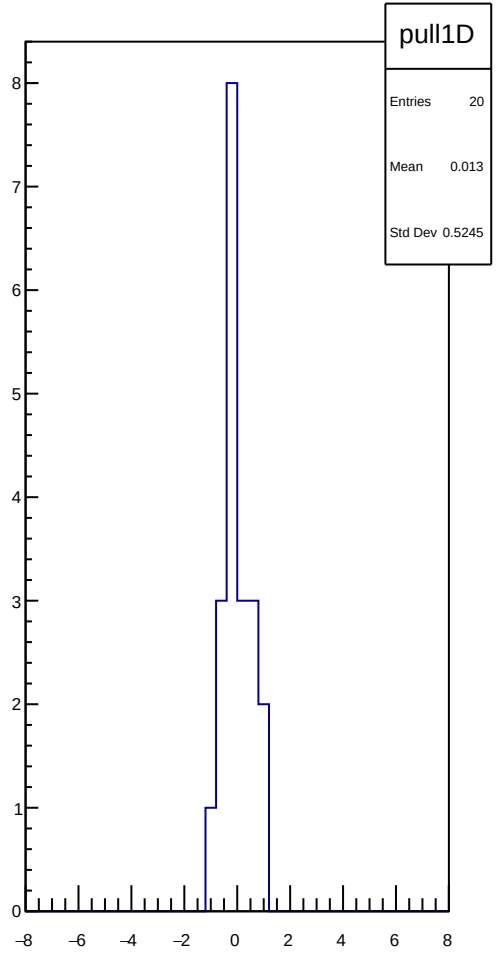

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.571 / 19
p0 47.95 ± 0.8887
54
52
50
48
46
44
42
40
38
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 47.09
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.006201
Std Dev 0.2802
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

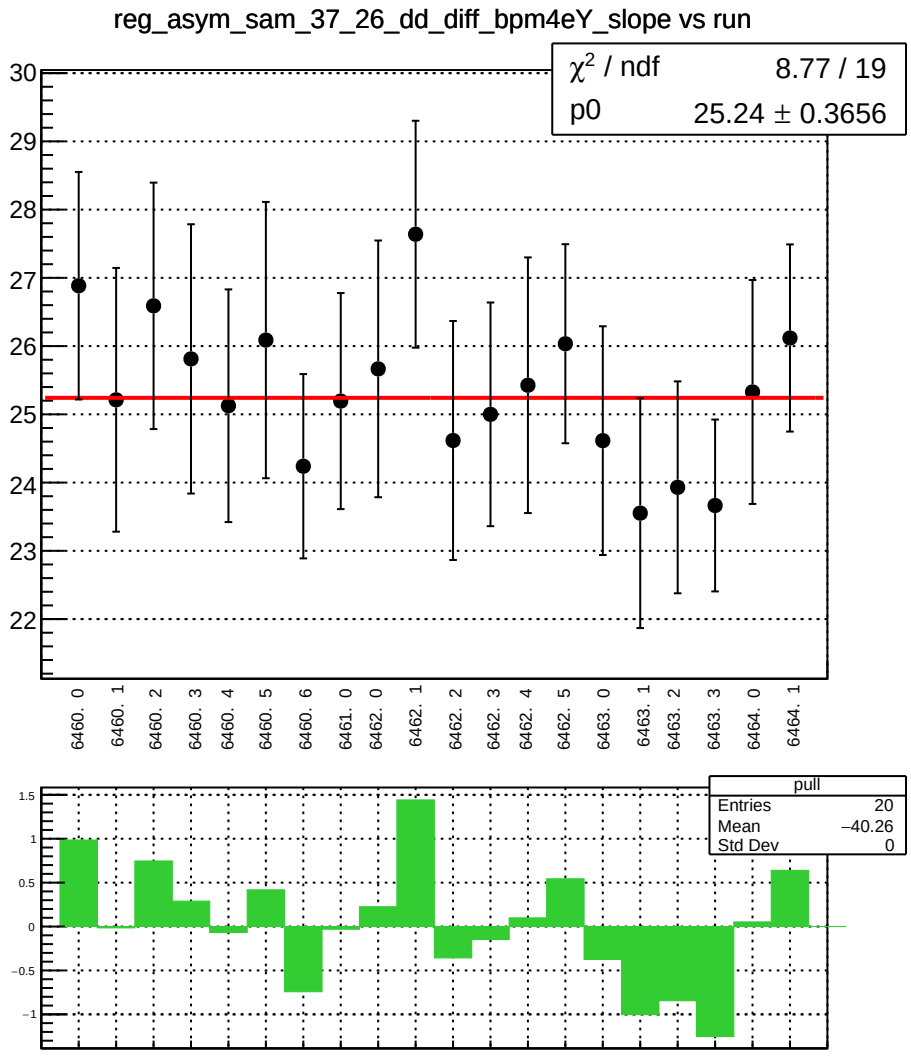

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6281 / 19
p0 −0.06578 ± 0.03719
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −309.8
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean −0.00197
Std Dev 0.1772
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

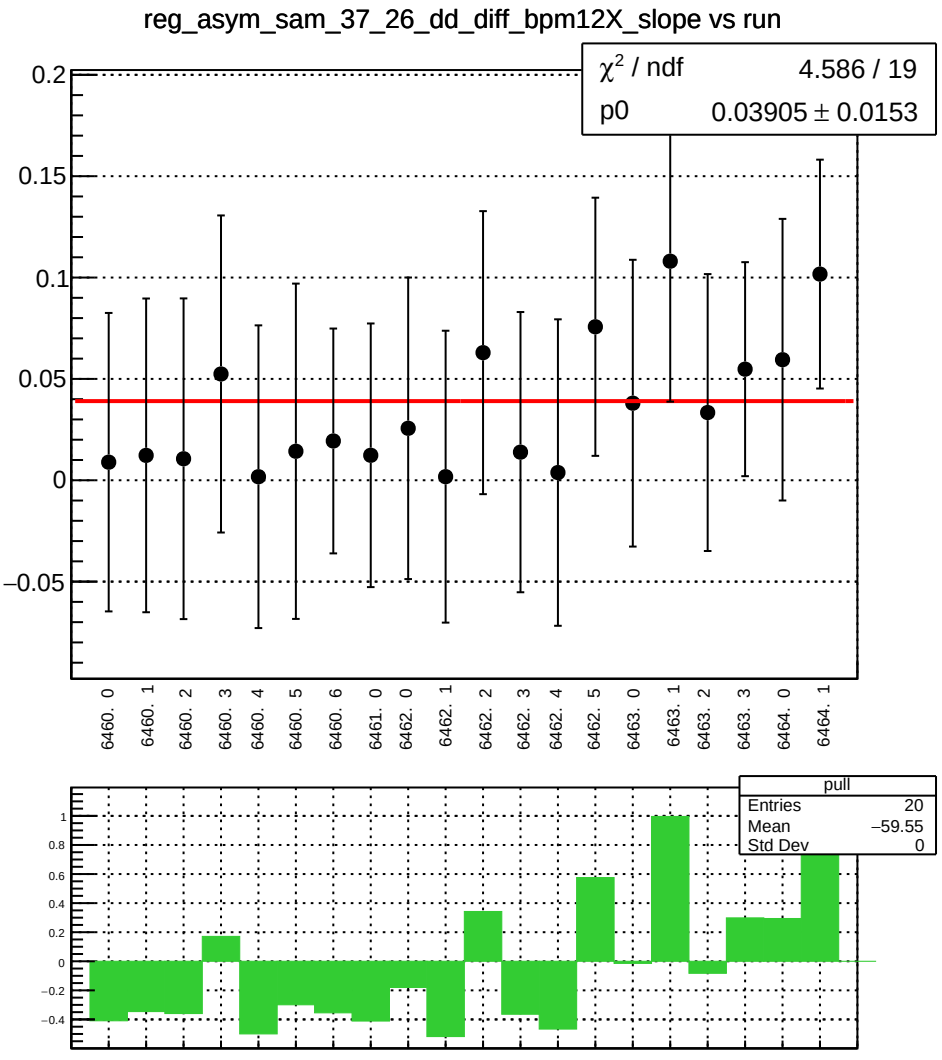

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.516 / 19
p0 −0.9313 ± 0.3096
1
0
−1
−2
−3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −101.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.008801
Std Dev 0.3546
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

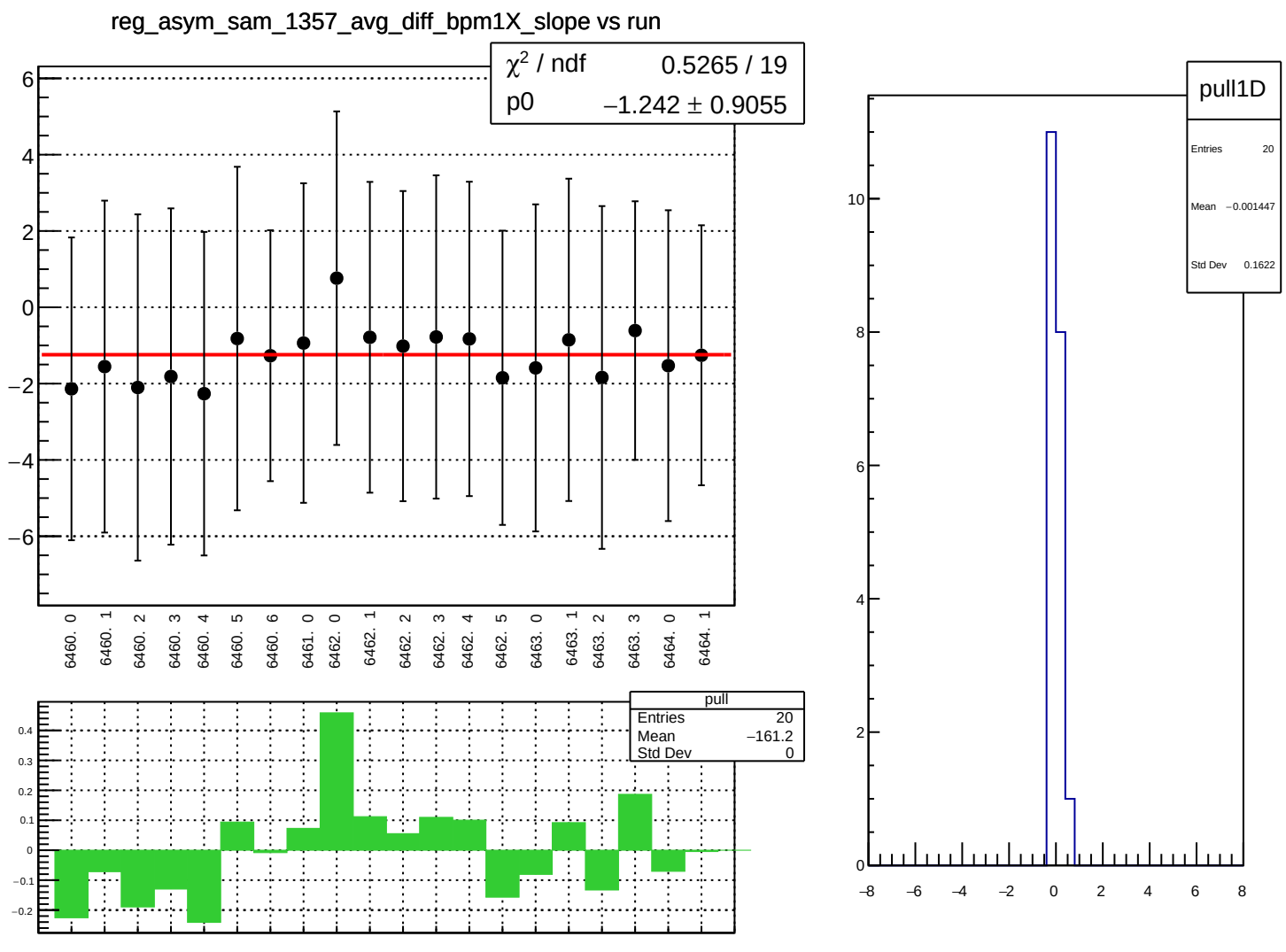

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.24 / 19
p0 2.05 ± 0.3614
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 177.6
Std Dev 0
pull1D
Entries 20
Mean 0.005052
Std Dev 0.7155

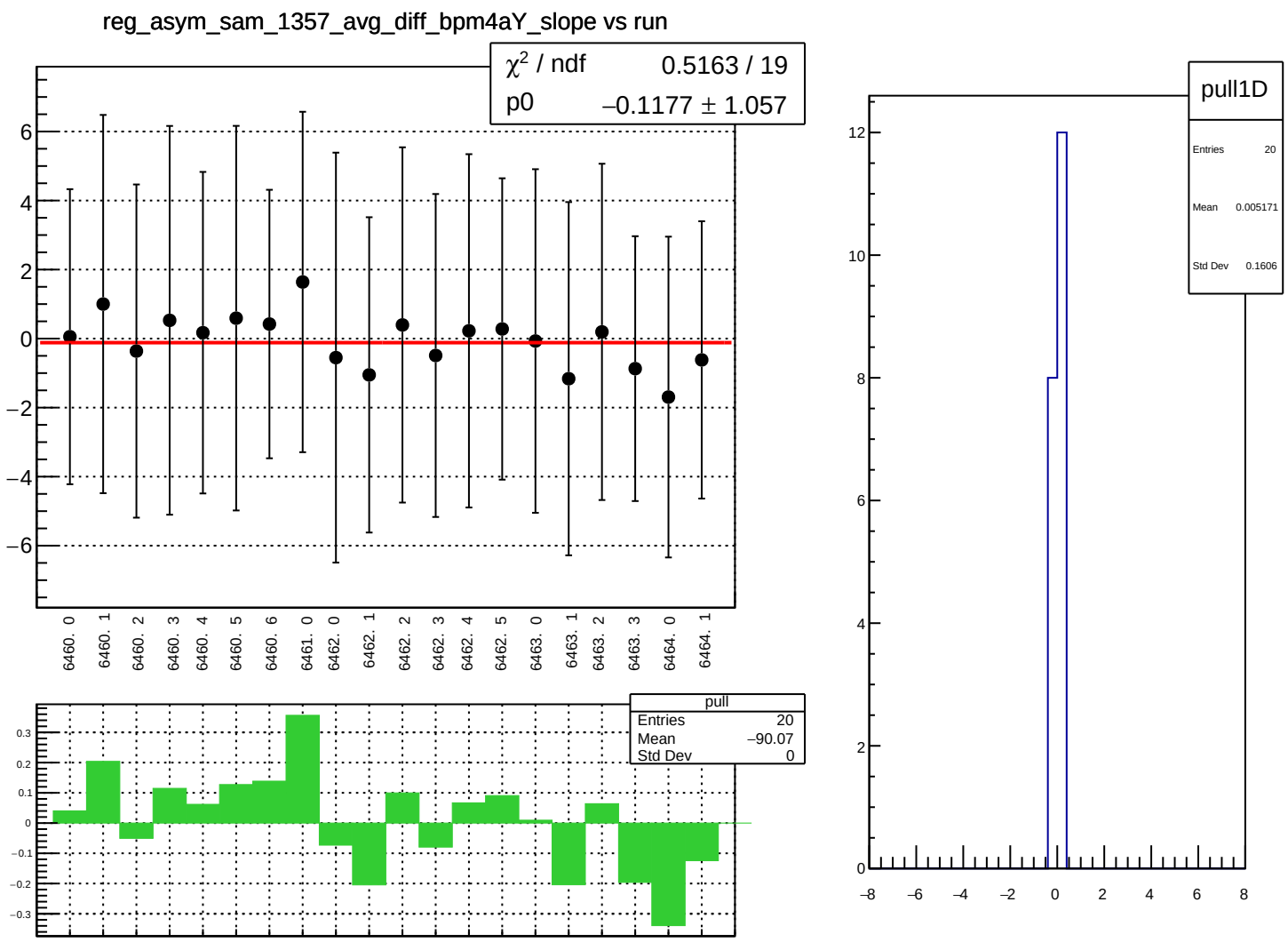

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.505 / 19
p0 −5.515 ± 0.3069
−3
−4
−5
−6
−7
−8
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.64
Std Dev 0
1
0.5
0
−0.5
−1

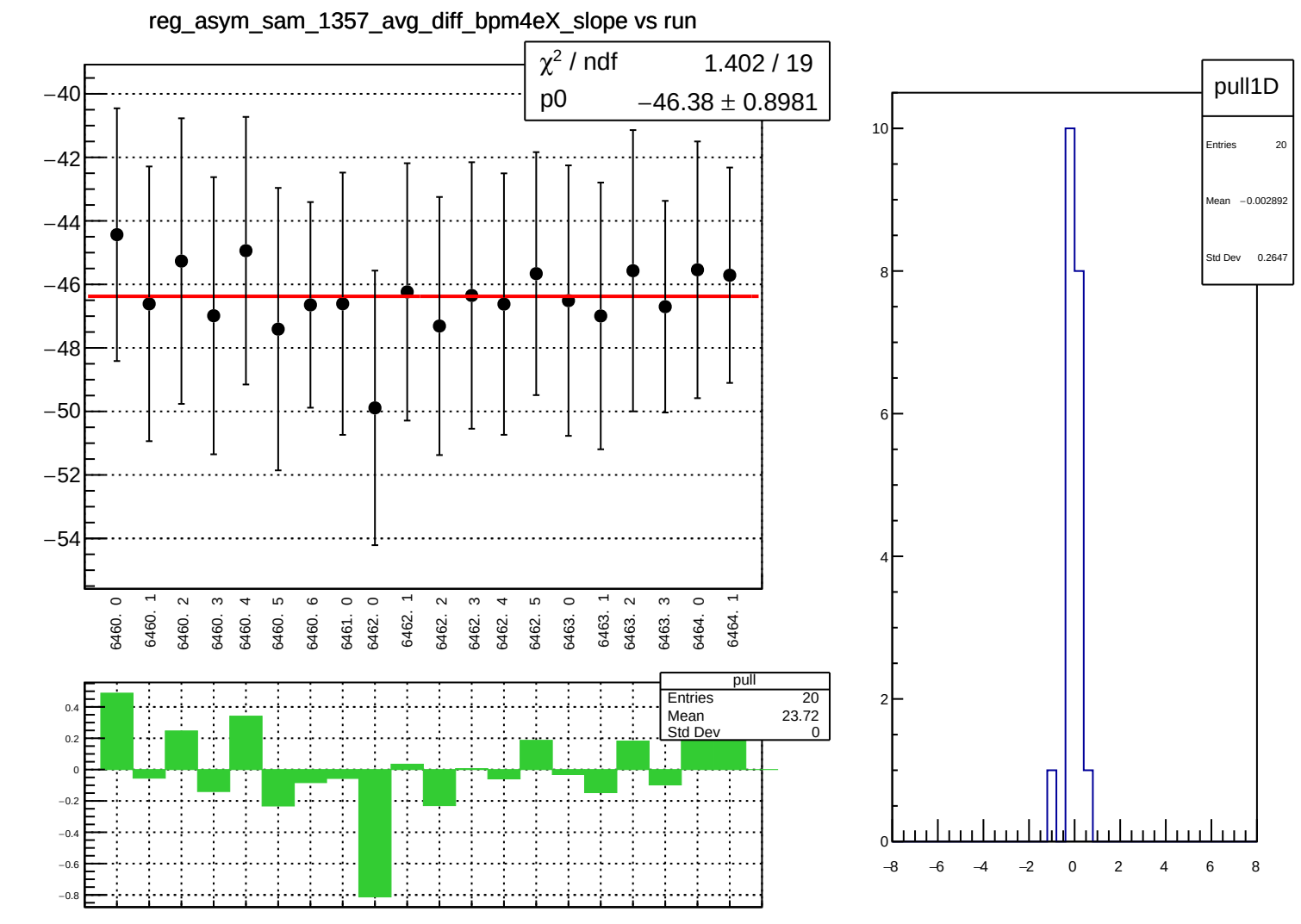

pull1D
Entries 20
Mean 0.013
Std Dev 0.5245
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

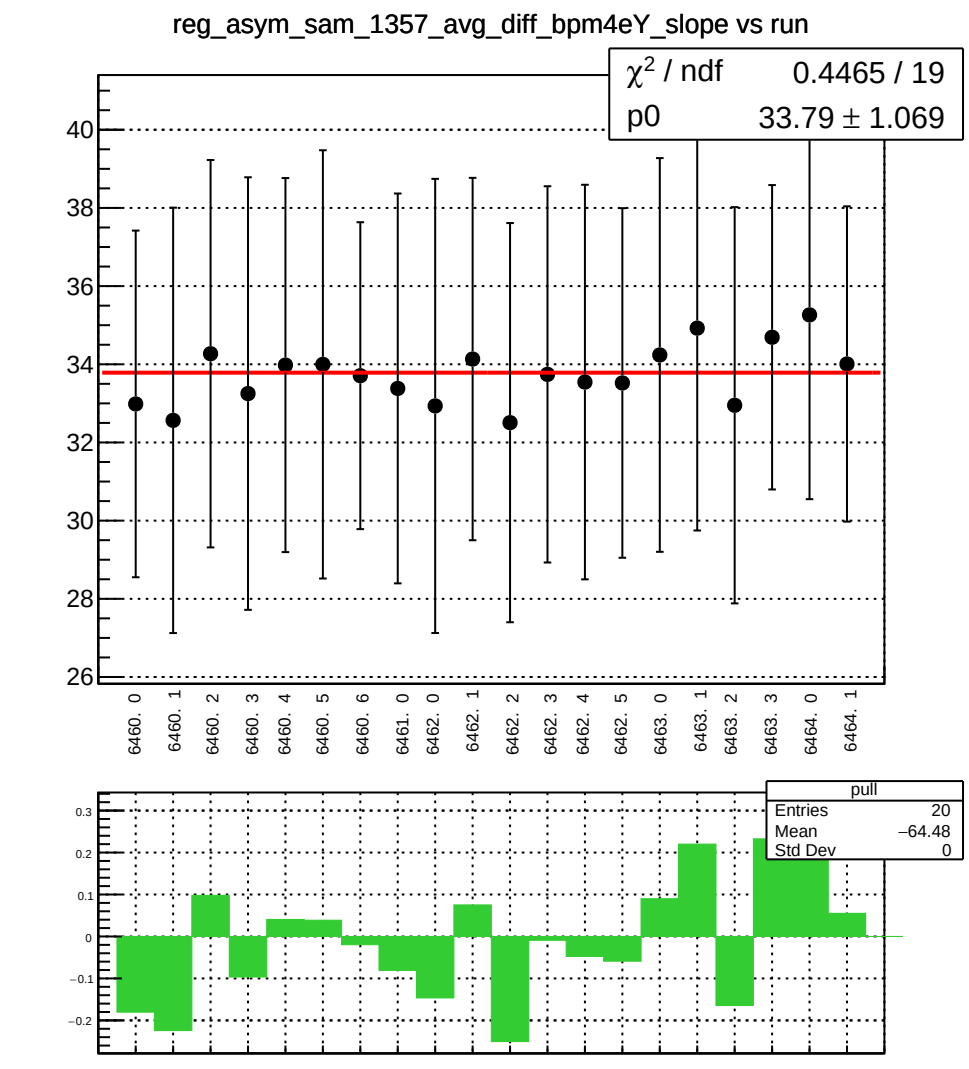

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.77 / 19
p0 25.24 ± 0.3656
30
29
28
27
26
25
24
23
22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −40.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.03027
Std Dev 0.6615
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

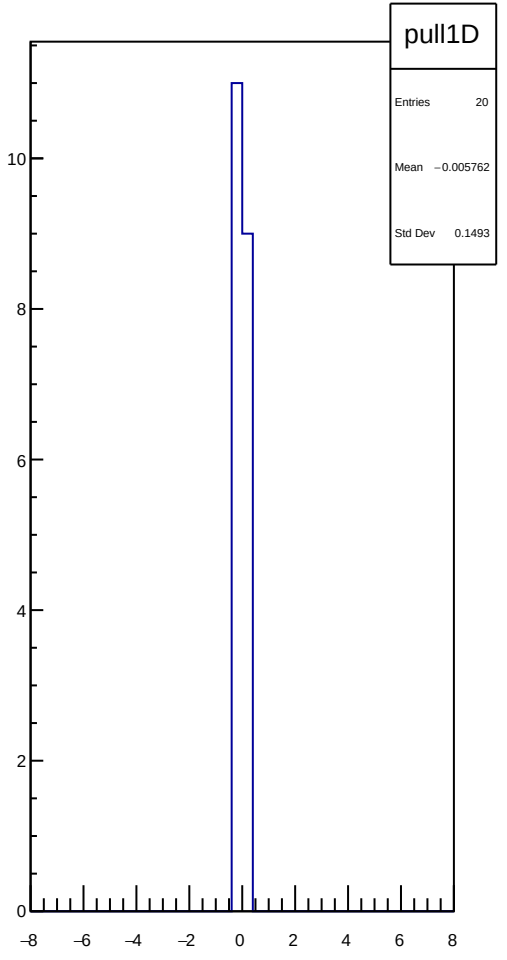

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.586 / 19
p0 0.03905 ± 0.0153
0.2
0.15
0.1
0.05
0
−0.05
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −59.55
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean −0.02584
Std Dev 0.4781
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

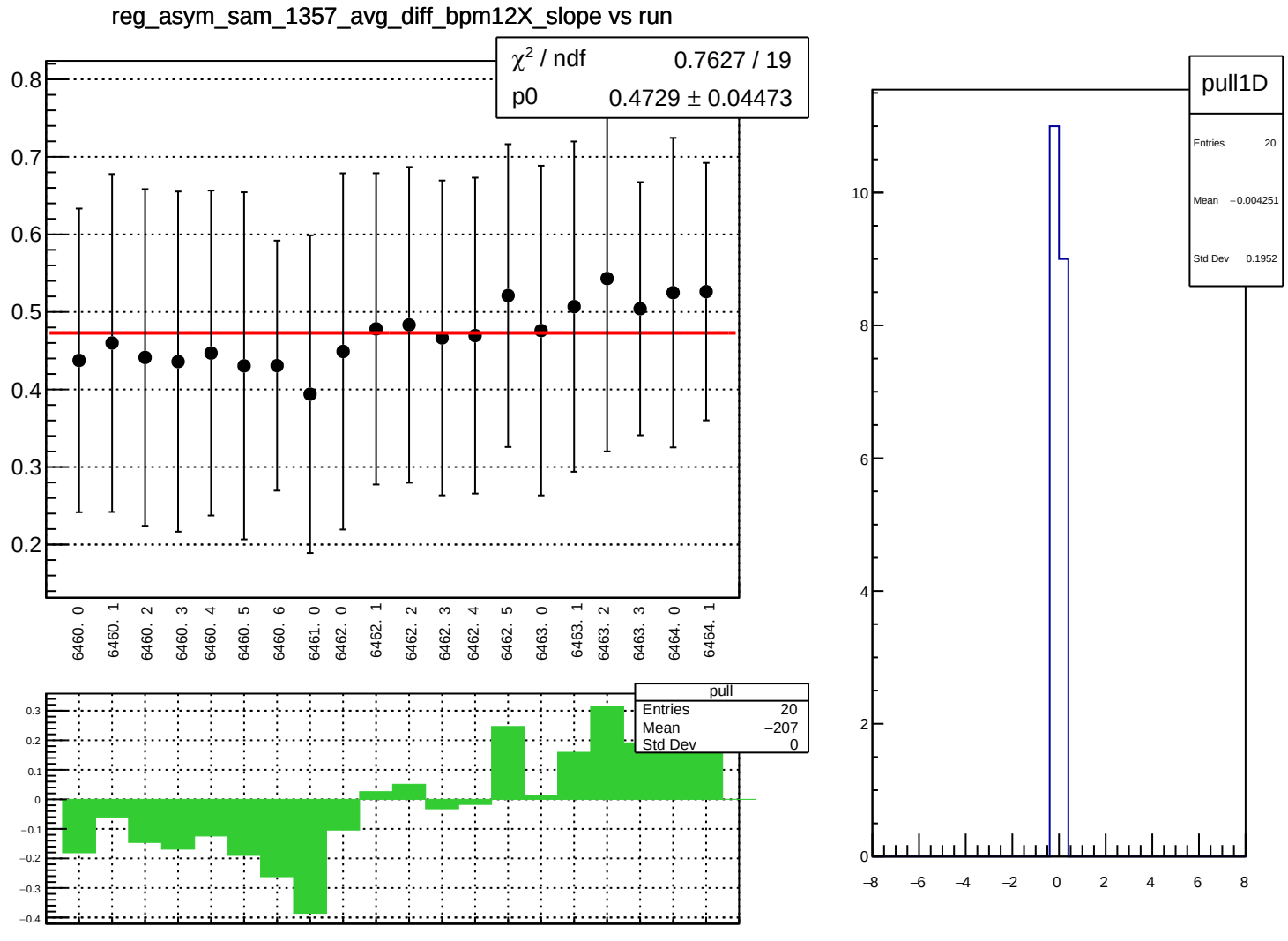

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 0.5265 / 19
p0 −1.242 ± 0.9055
6
4
2
0
−2
−4
−6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −161.2
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 20
Mean −0.001447
Std Dev 0.1622
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

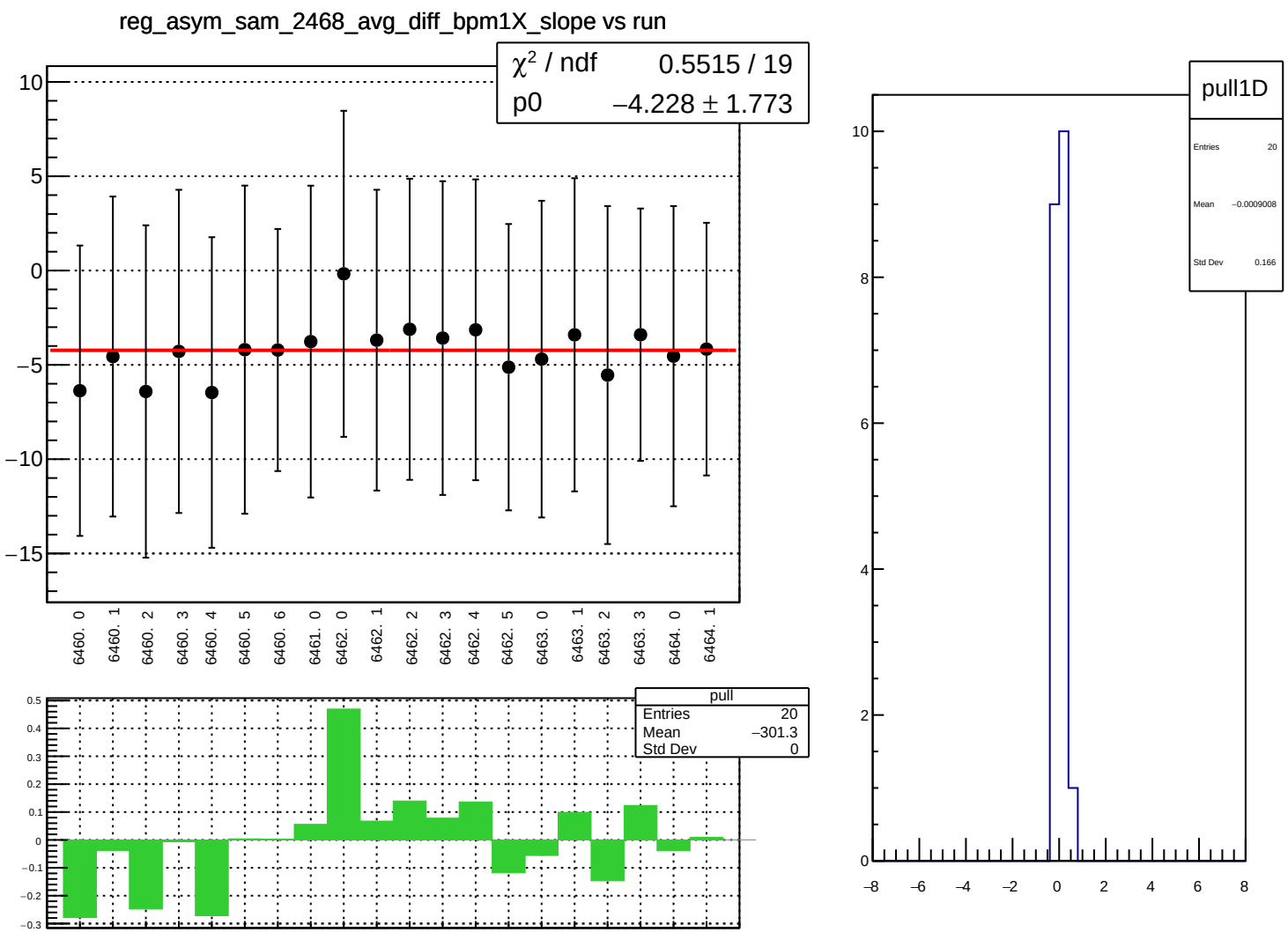

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5163 / 19
p0 –0.1177 ± 1.057
6
4
2
0
–2
–4
–6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean –90.07
Std Dev 0
0.3
0.2
0.1
0
–0.1
–0.2
–0.3
pull1D
Entries 20
Mean 0.005171
Std Dev 0.1606
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

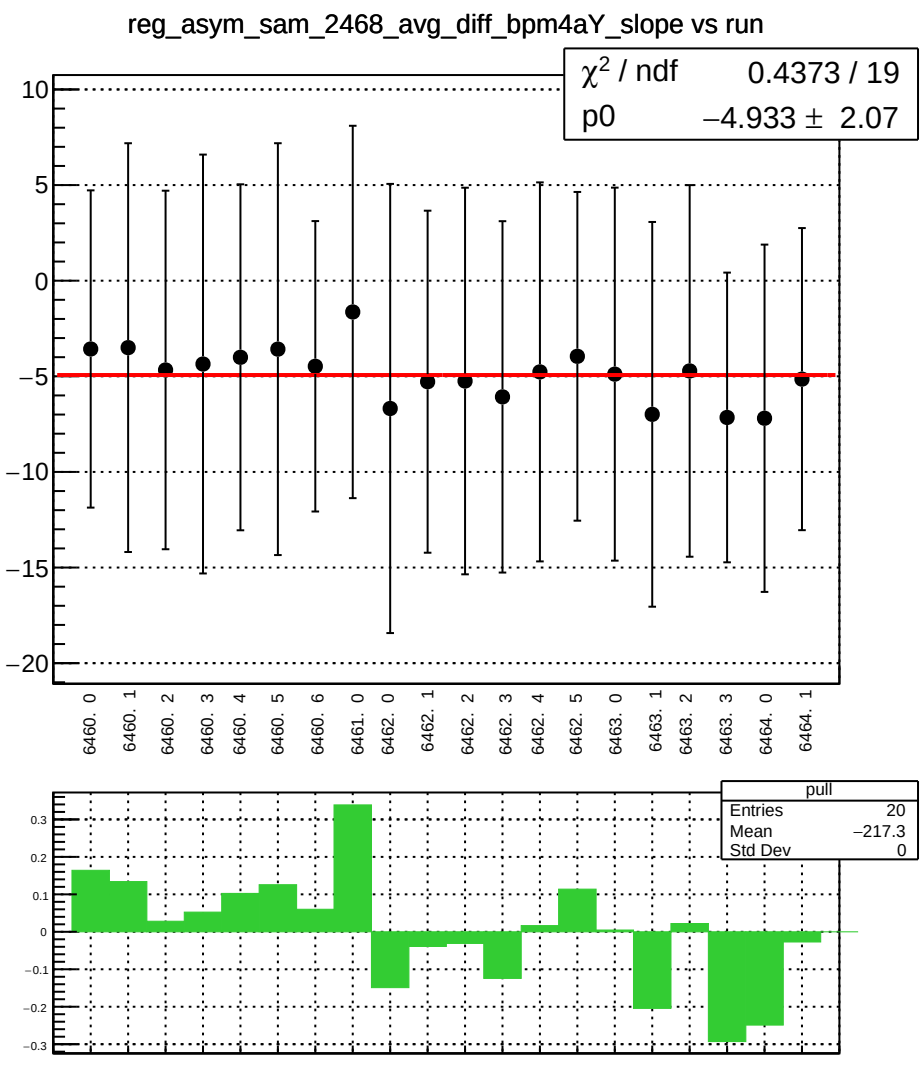

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.402 / 19
p0 −46.38 ± 0.8981
−40
−42
−44
−46
−48
−50
−52
−54
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 23.72
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.002892
Std Dev 0.2647
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

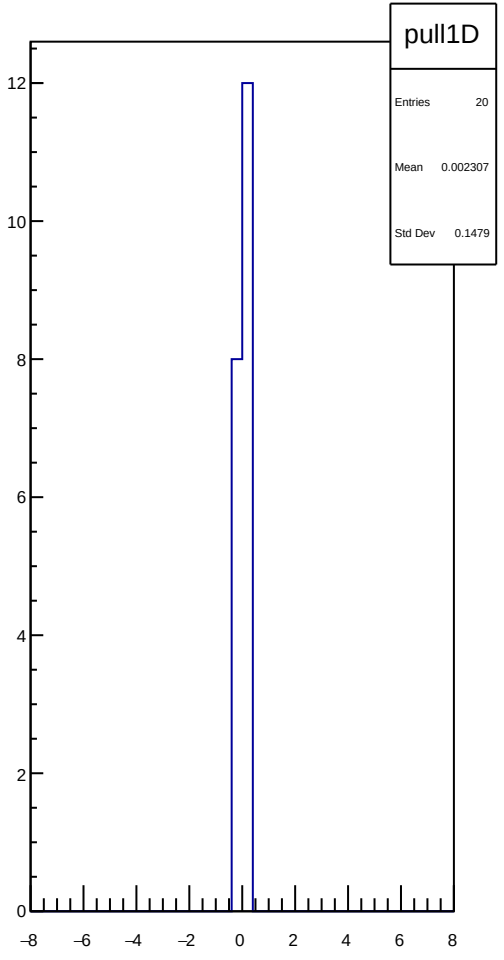

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4465 / 19
p0 33.79 ± 1.069
40
38
36
34
32
30
28
26
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −64.48
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2

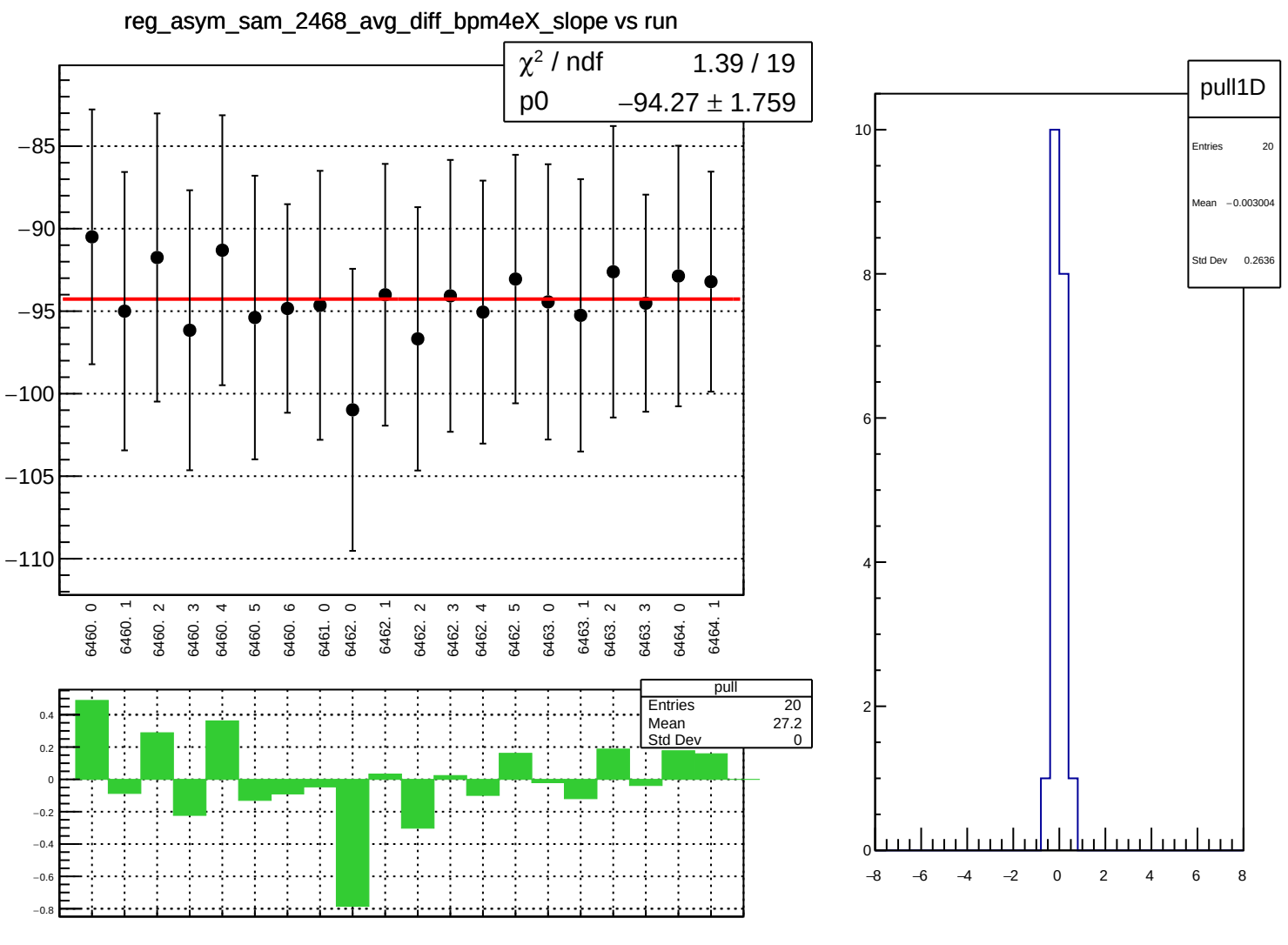

pull1D
Entries 20
Mean −0.005762
Std Dev 0.1493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

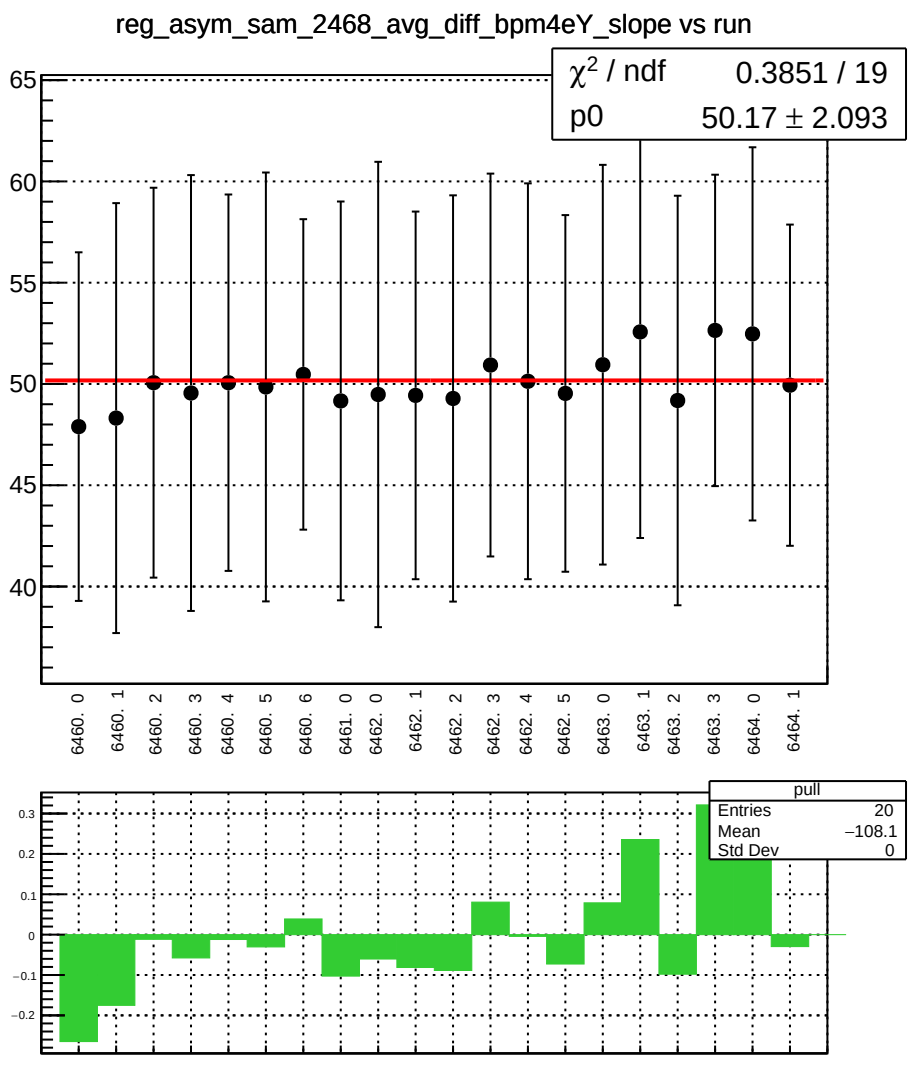

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 0.7627 / 19
p0 0.4729 ± 0.04473
0.8
0.7
0.6
0.5
0.4
0.3
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −207
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 20
Mean −0.004251
Std Dev 0.1952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

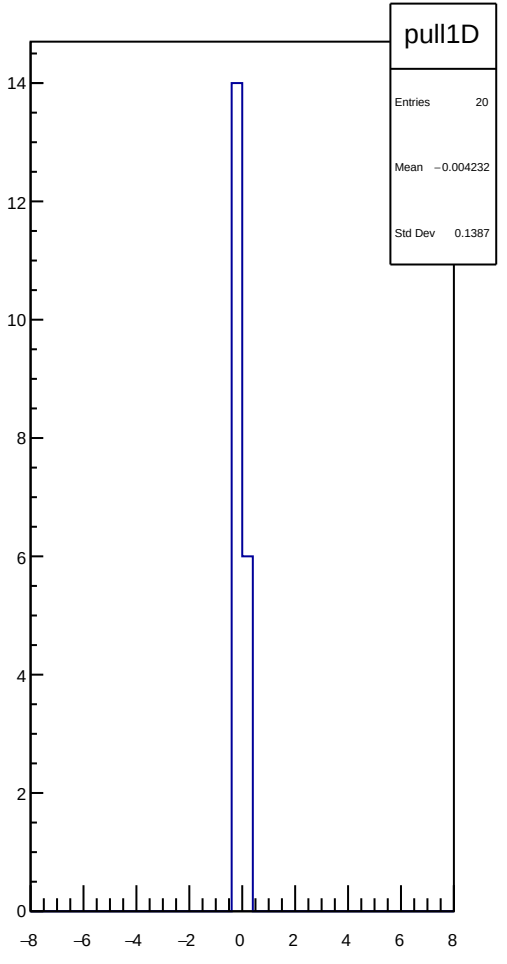

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 0.5515 / 19
p0 −4.228 ± 1.773
10
5
0
−5
−10
−15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −301.3
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean −0.0009008
Std Dev 0.166
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

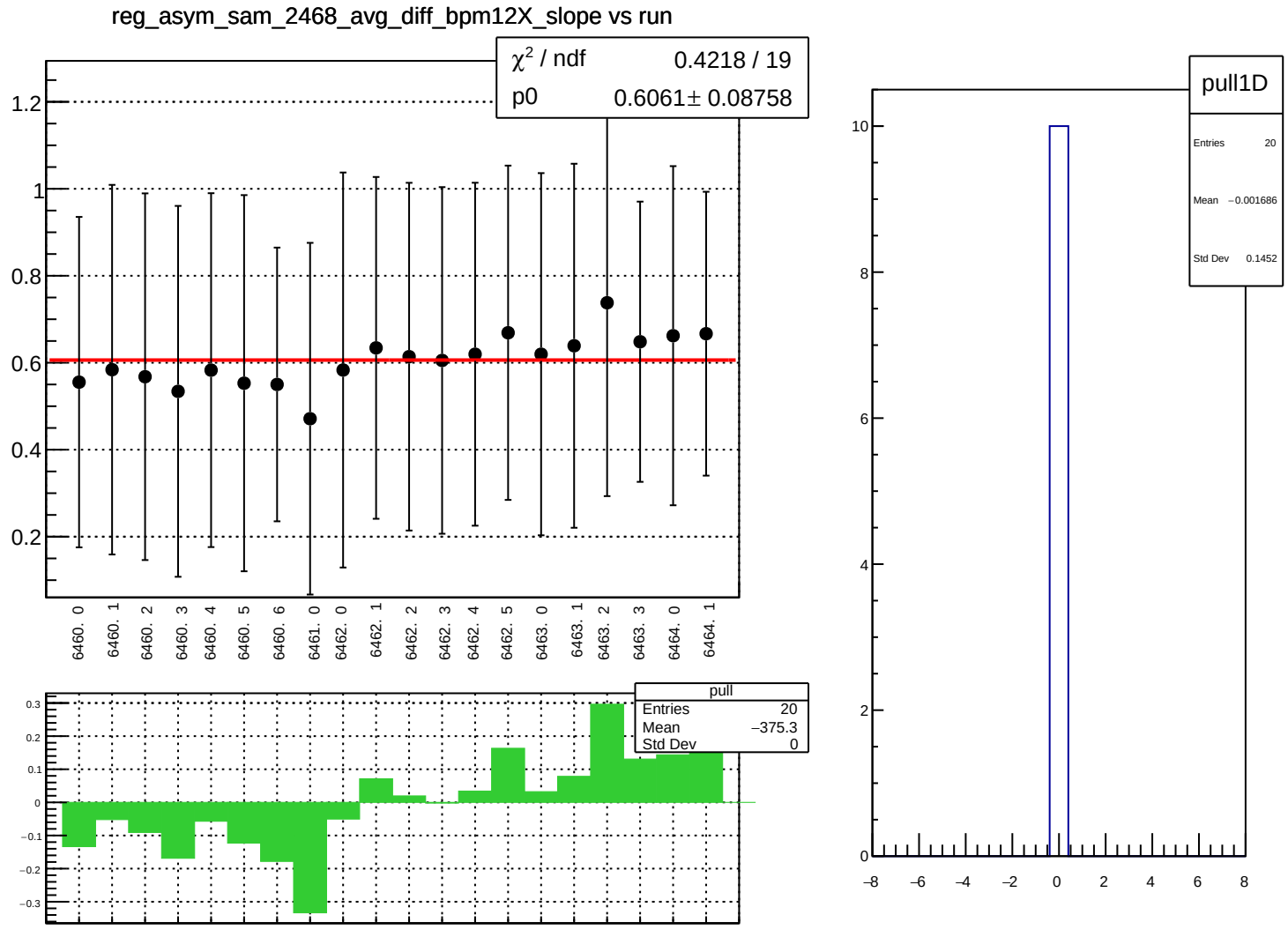

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4373 / 19
p0 −4.933 ± 2.07
10
5
0
−5
−10
−15
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −217.3
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

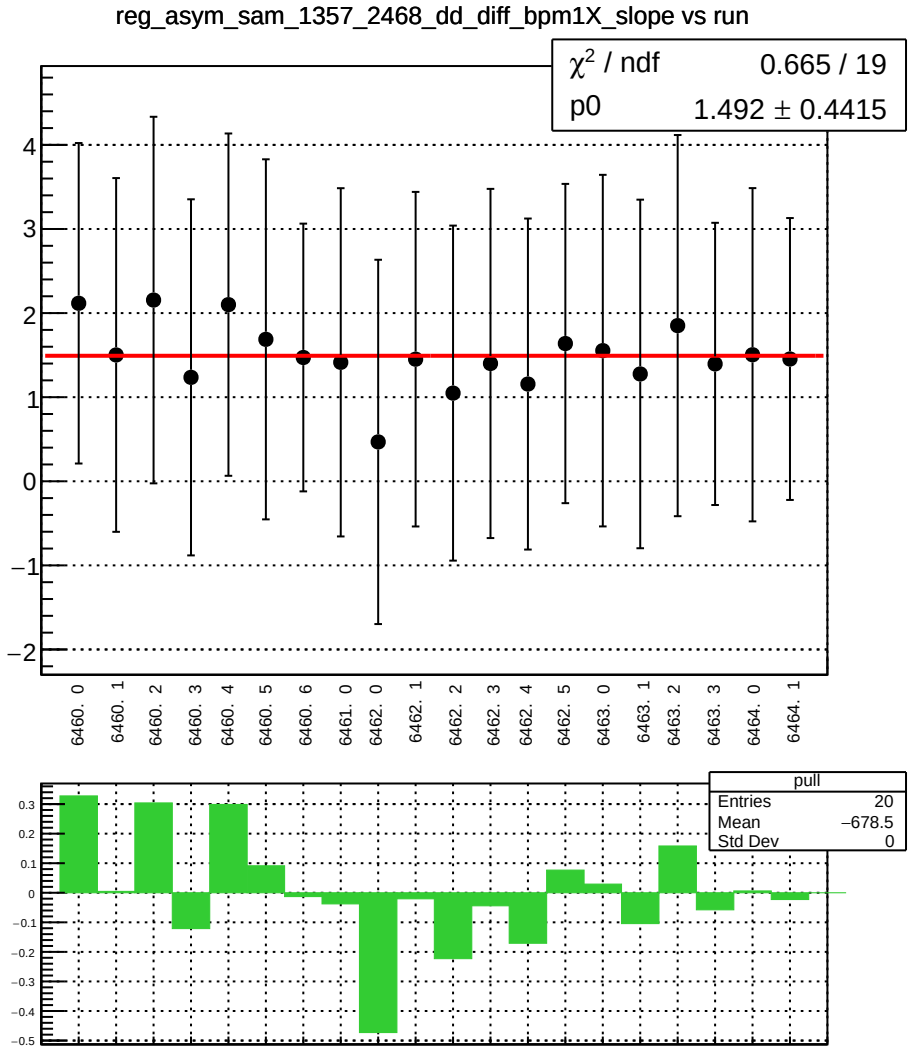

pull1D
Entries 20
Mean 0.002307
Std Dev 0.1479
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

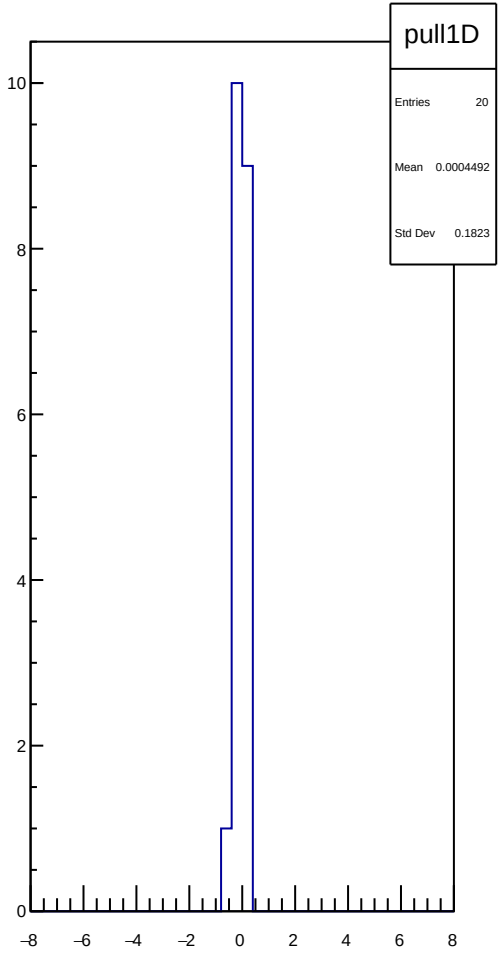

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.39 / 19
p0 −94.27 ± 1.759
−85
−90
−95
−100
−105
−110
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 27.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.003004
Std Dev 0.2636
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

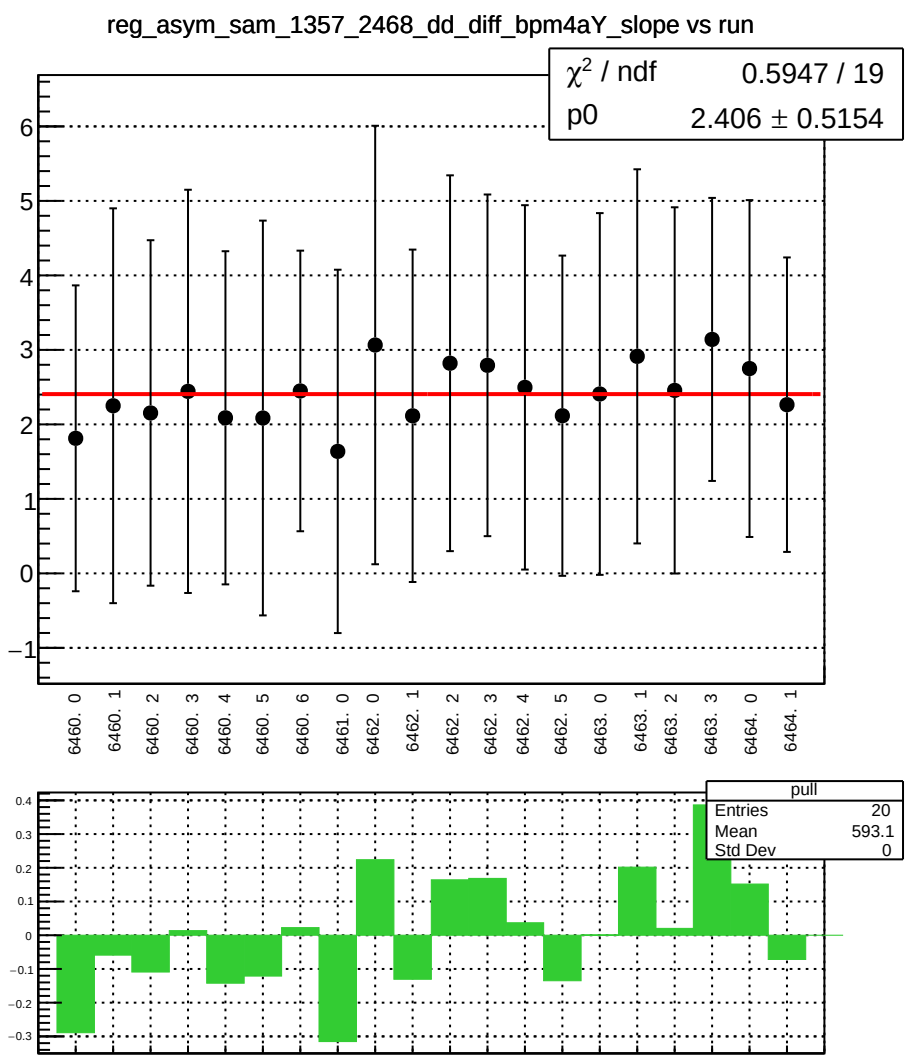

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3851 / 19
p0 50.17 ± 2.093
65
60
55
50
45
40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −108.1
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2

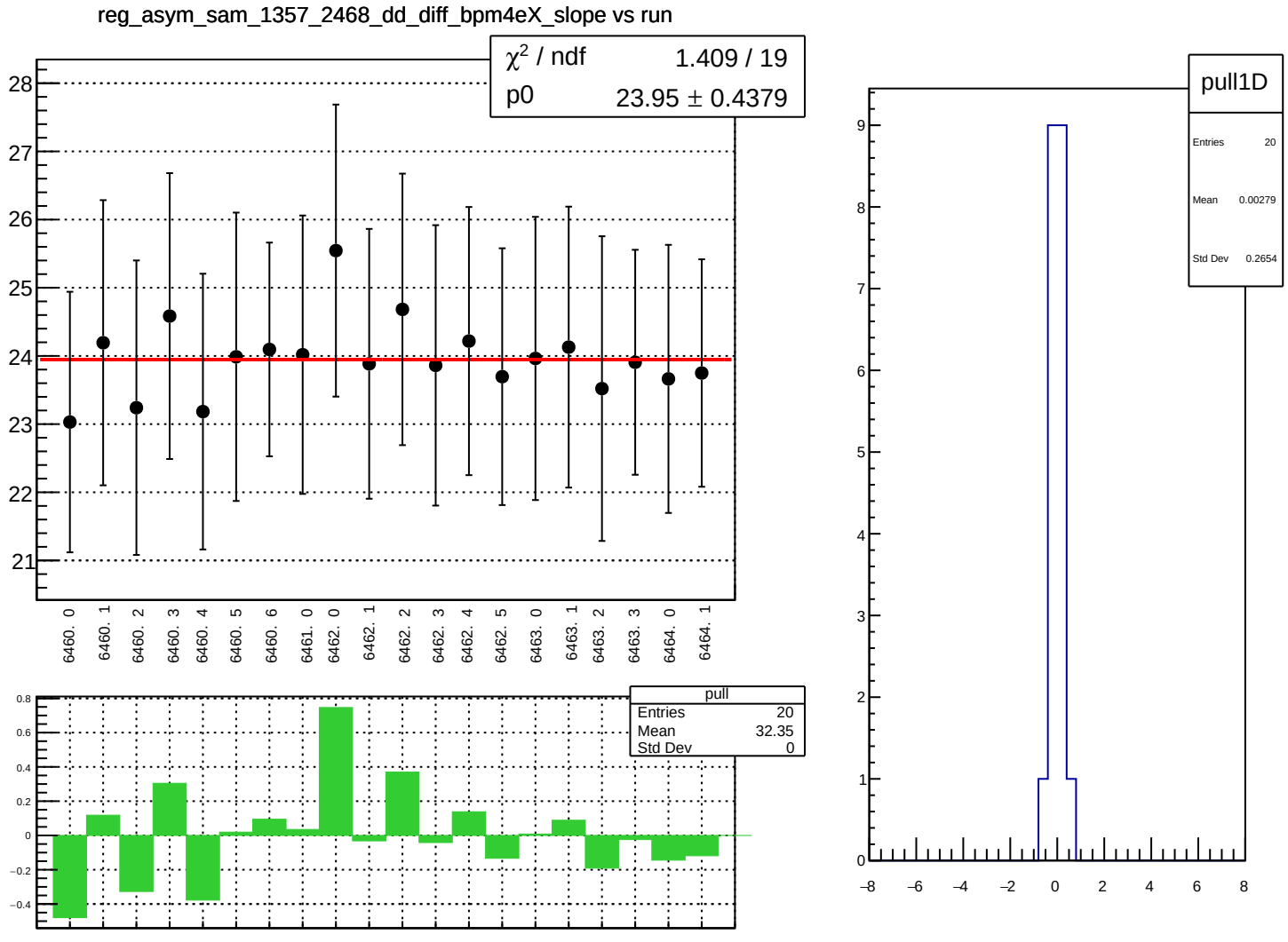

pull1D
Entries 20
Mean −0.004232
Std Dev 0.1387
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

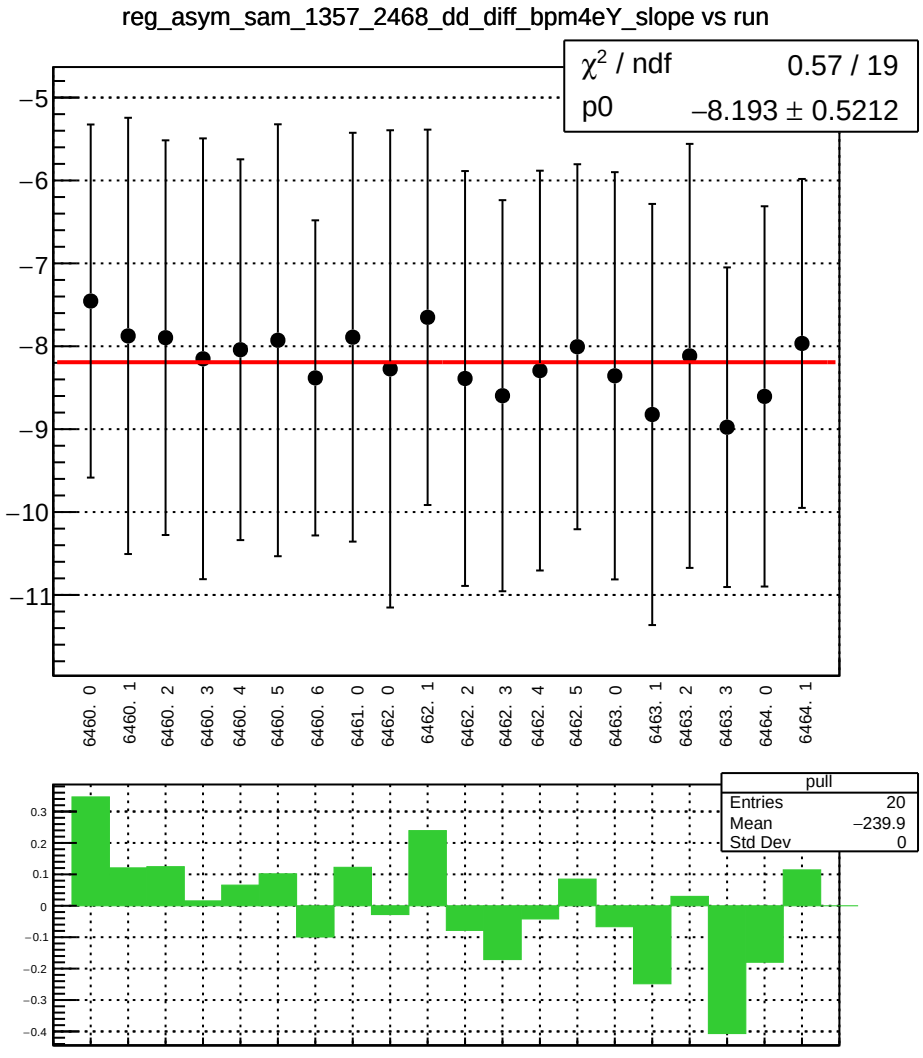

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.4218 / 19
p0 0.6061± 0.08758
1.2
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −375.3
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean −0.001686
Std Dev 0.1452
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

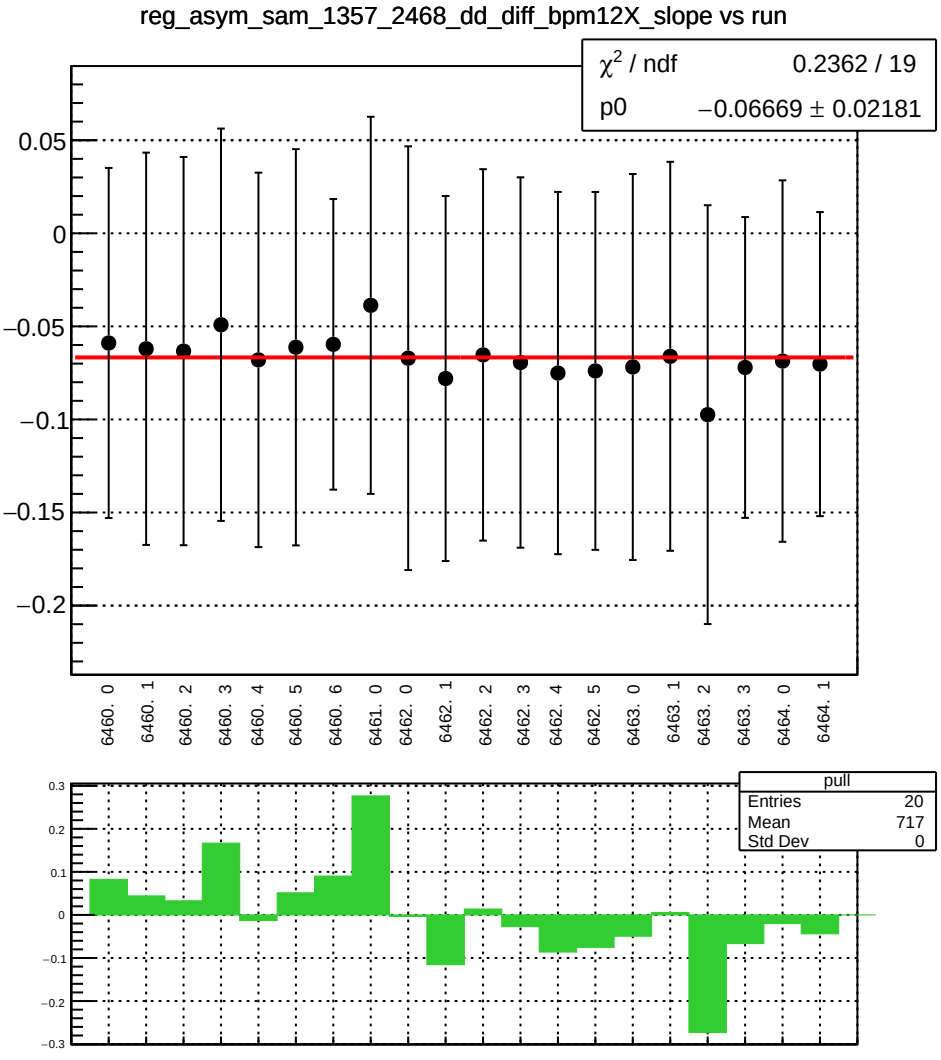

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.665 / 19
p0 1.492 ± 0.4415
pull
Entries 20
Mean −678.5
Std Dev 0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

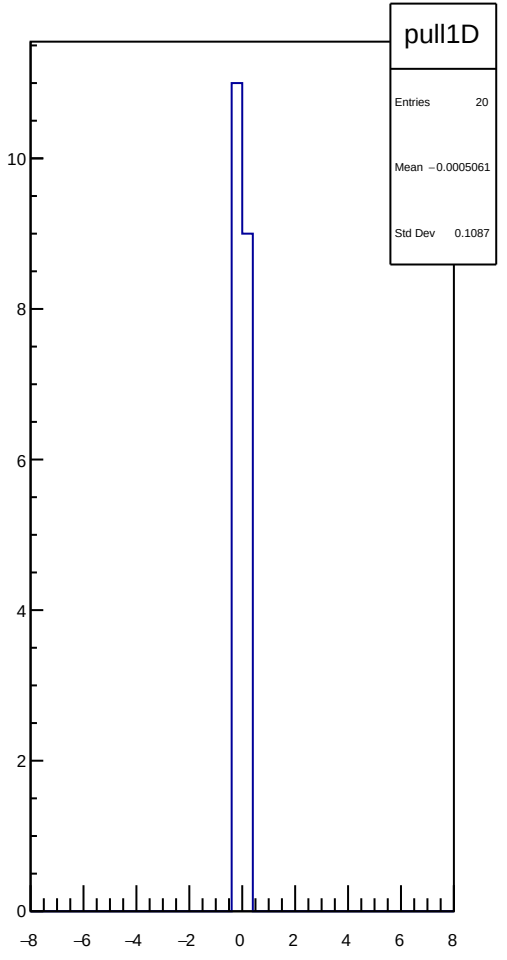

pull1D
Entries 20
Mean 0.0004492
Std Dev 0.1823

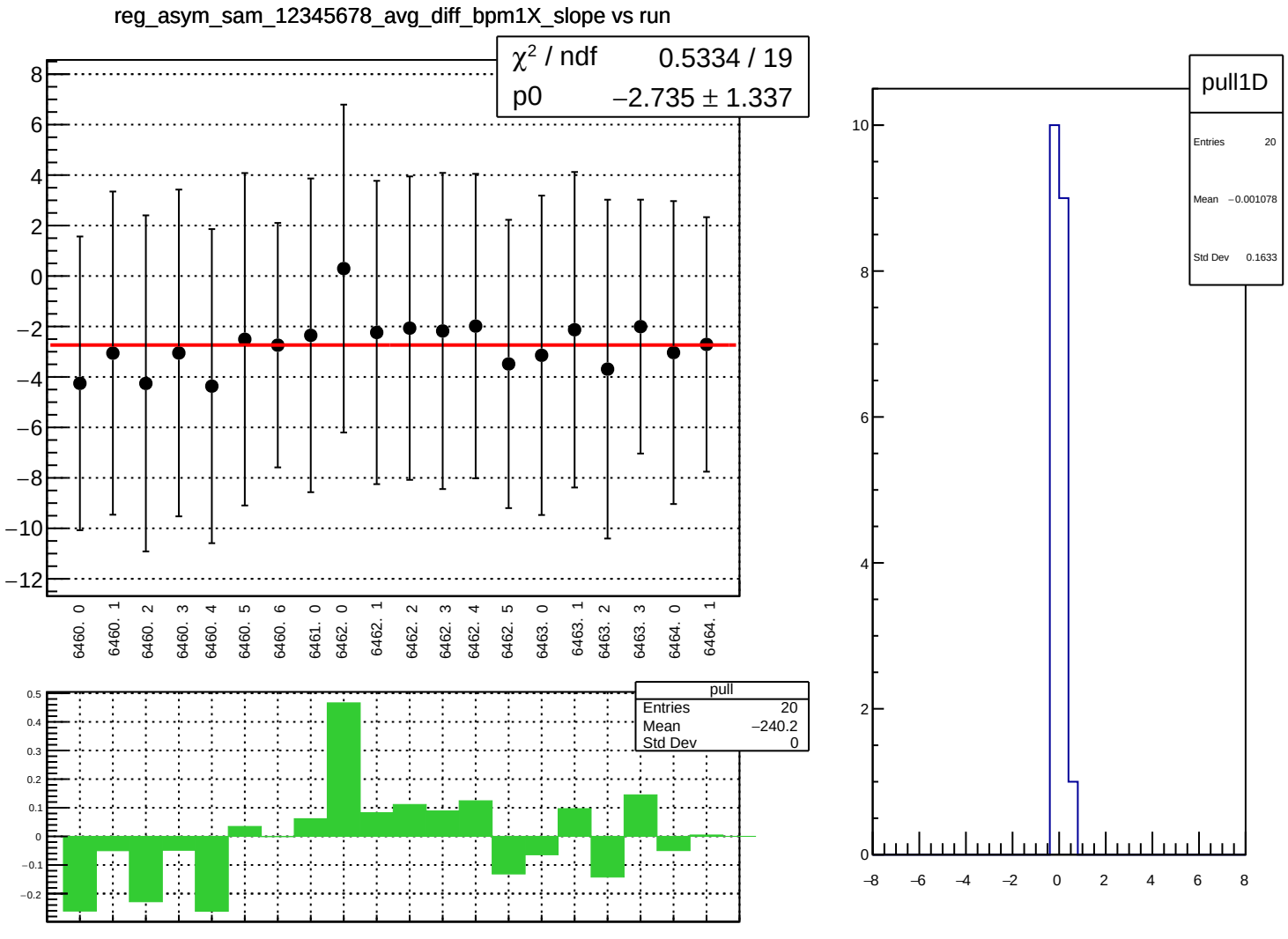

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5947 / 19
p0 2.406 ± 0.5154
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 593.1
Std Dev 0
pull1D
Entries 20
Mean 0.000896
Std Dev 0.1724

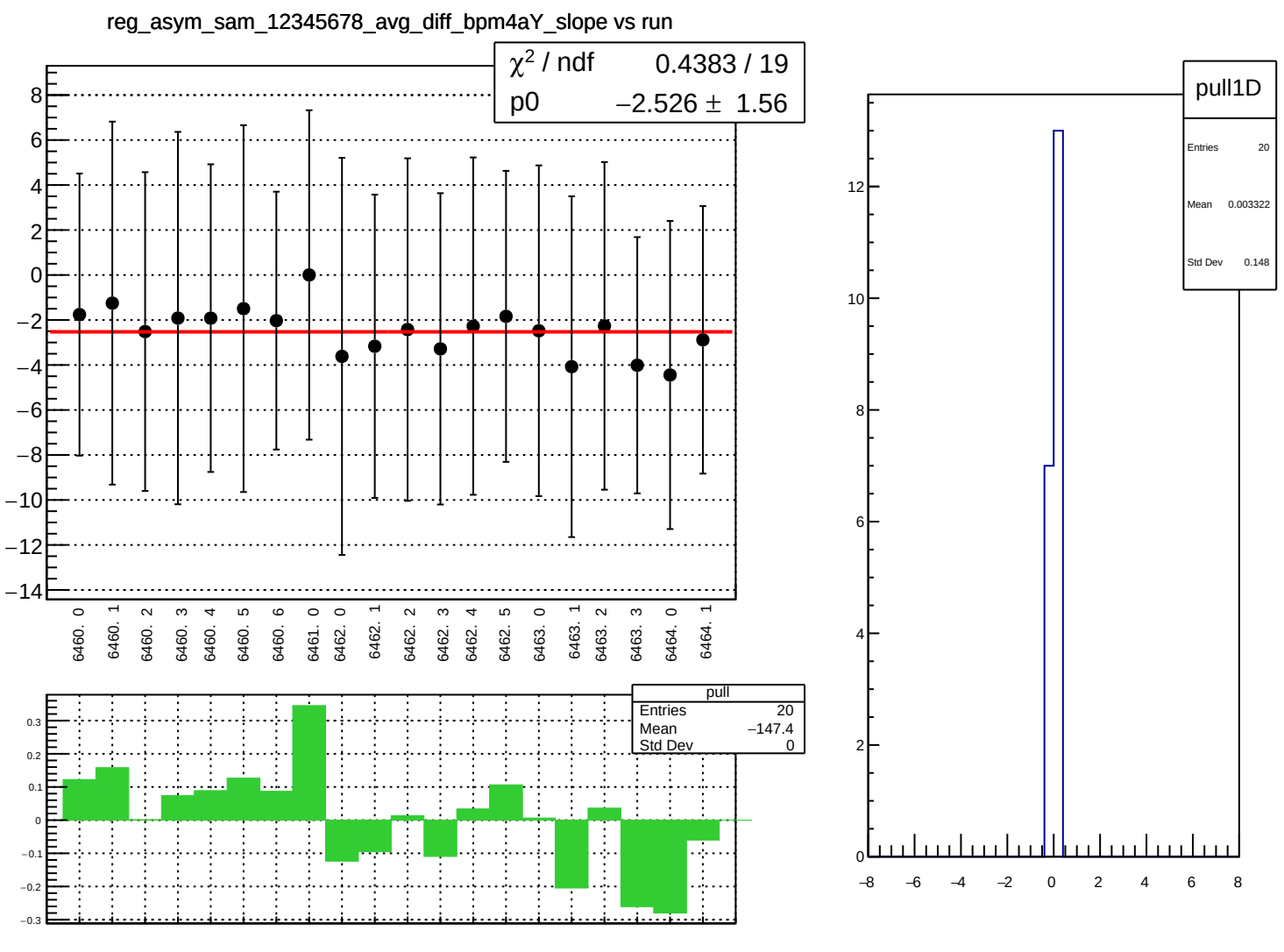

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.409 / 19
p0 23.95 ± 0.4379
28
27
26
25
24
23
22
21
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 32.35
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean 0.00279
Std Dev 0.2654
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

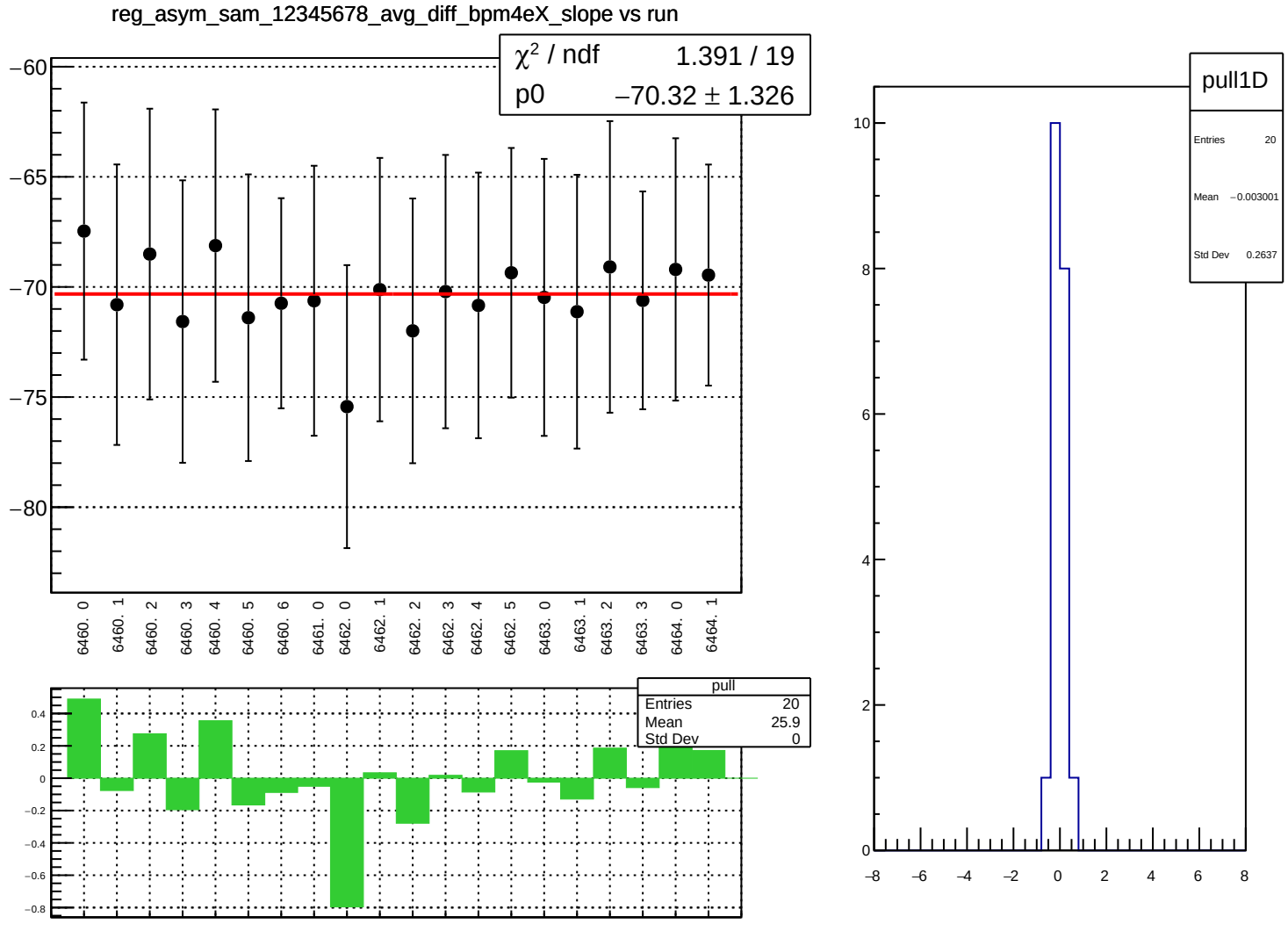

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.57 / 19
p0 −8.193 ± 0.5212
−5
−6
−7
−8
−9
−10
−11
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −239.9
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 20
Mean 0.002256
Std Dev 0.1688
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

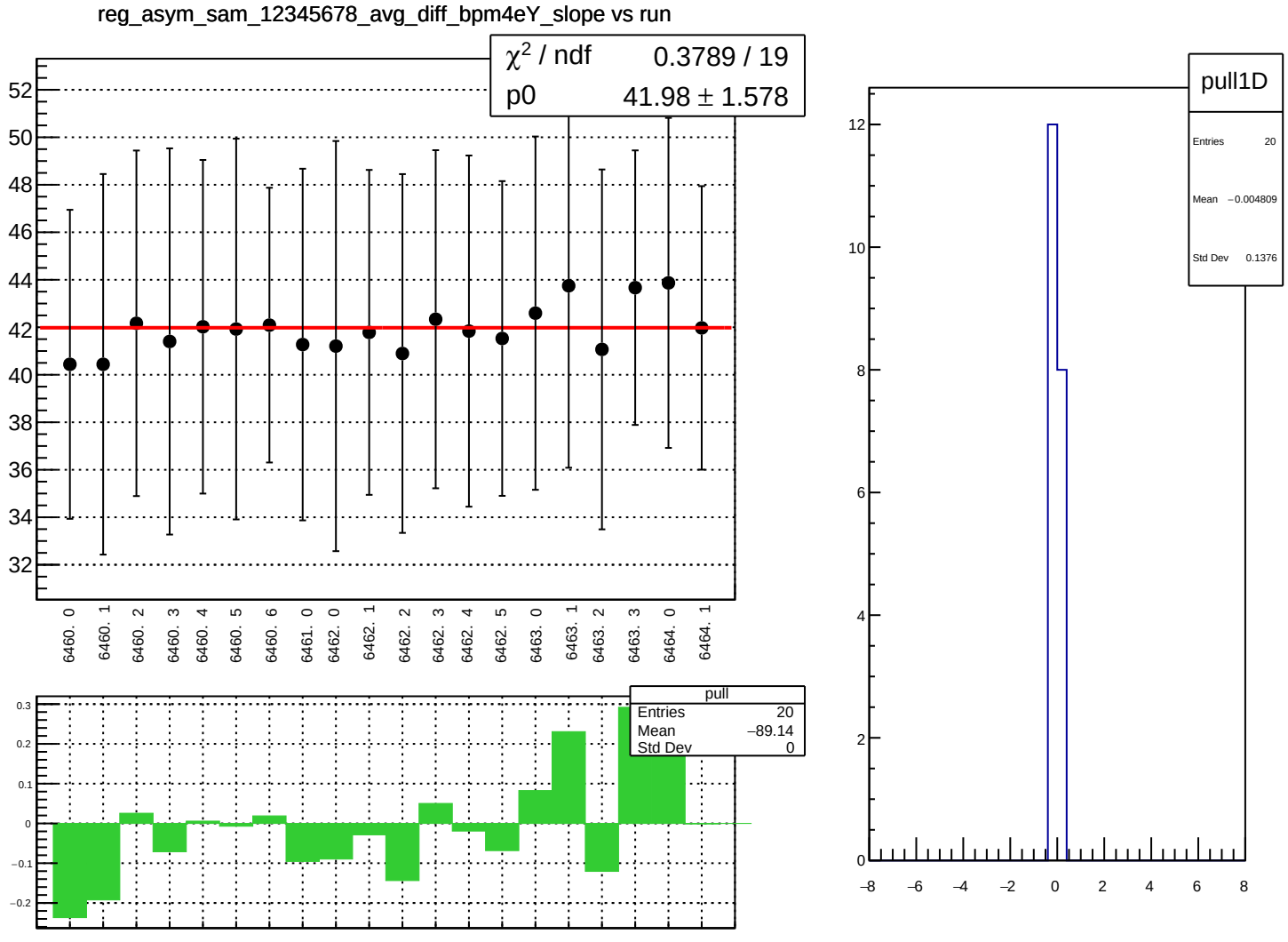

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.2362 / 19
p0 −0.06669 ± 0.02181
0.05
0
−0.05
−0.1
−0.15
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 717
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

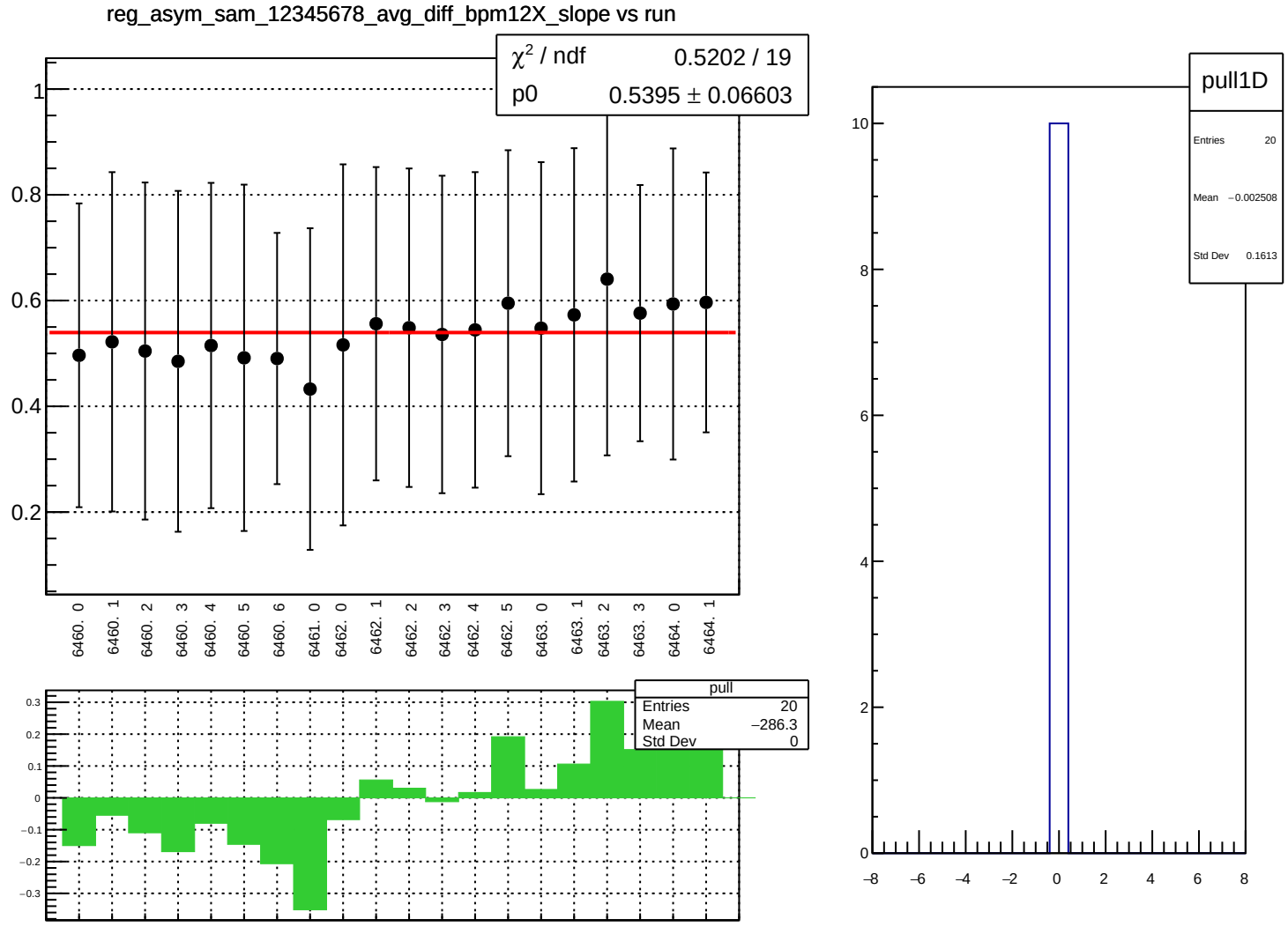

pull1D
Entries 20
Mean −0.0005061
Std Dev 0.1087
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

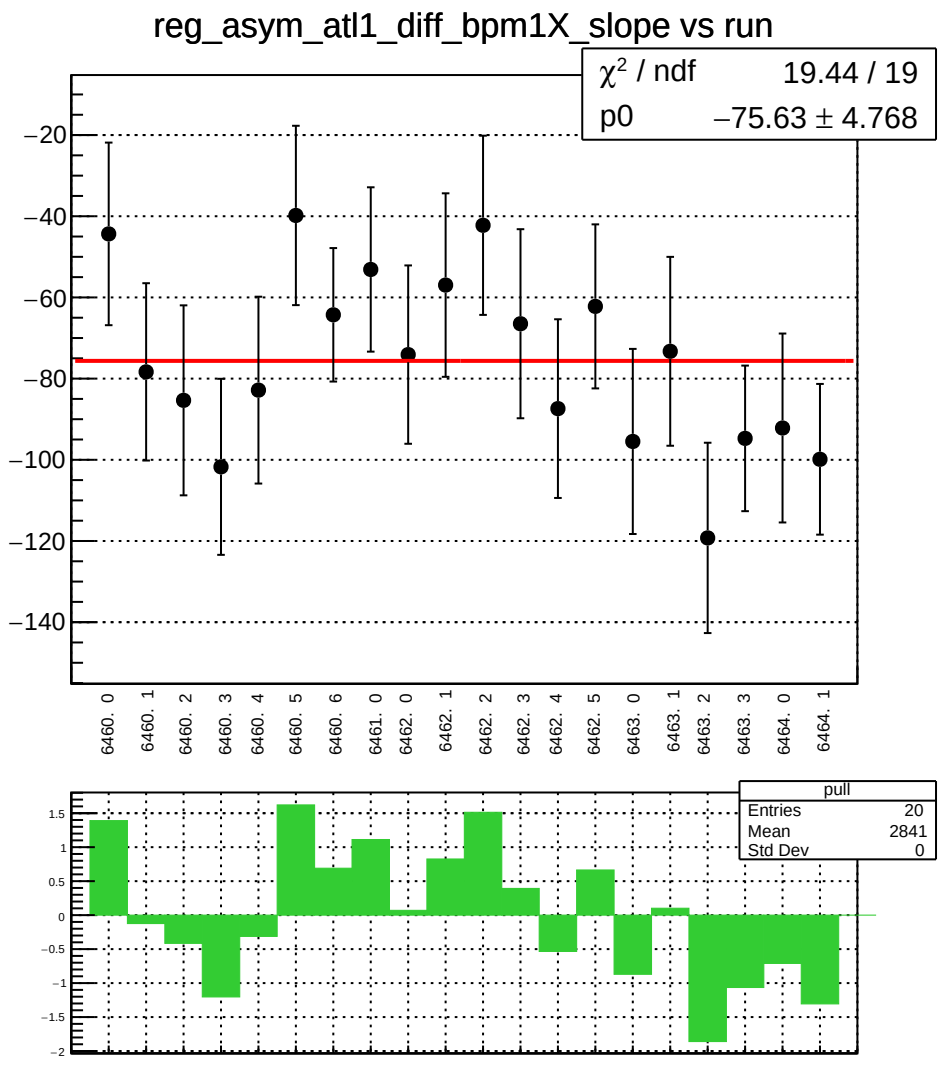

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 0.5334 / 19
p0 −2.735 ± 1.337
8
6
4
2
0
−2
−4
−6
−8
−10
−12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −240.2
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 20
Mean −0.001078
Std Dev 0.1633
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

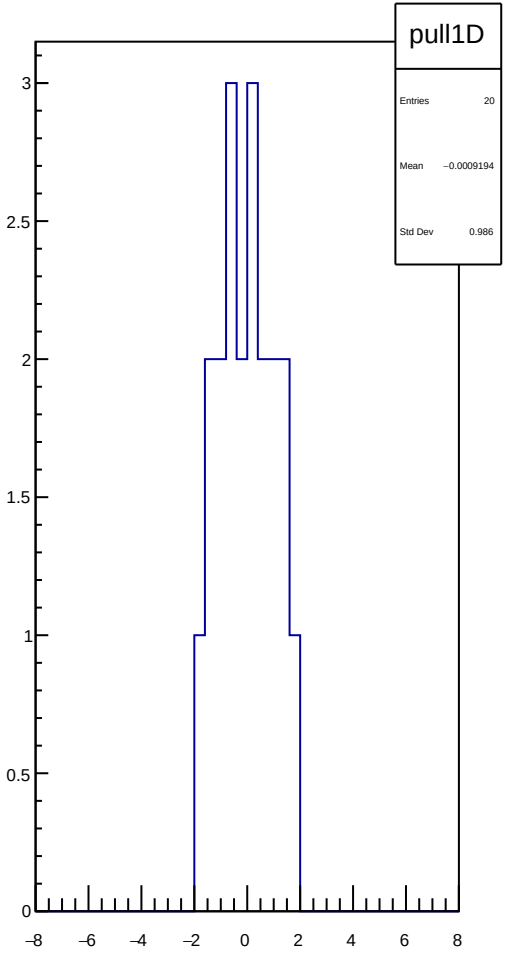

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4383 / 19
p0 −2.526 ± 1.56
8
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −147.4
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean 0.003322
Std Dev 0.148
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

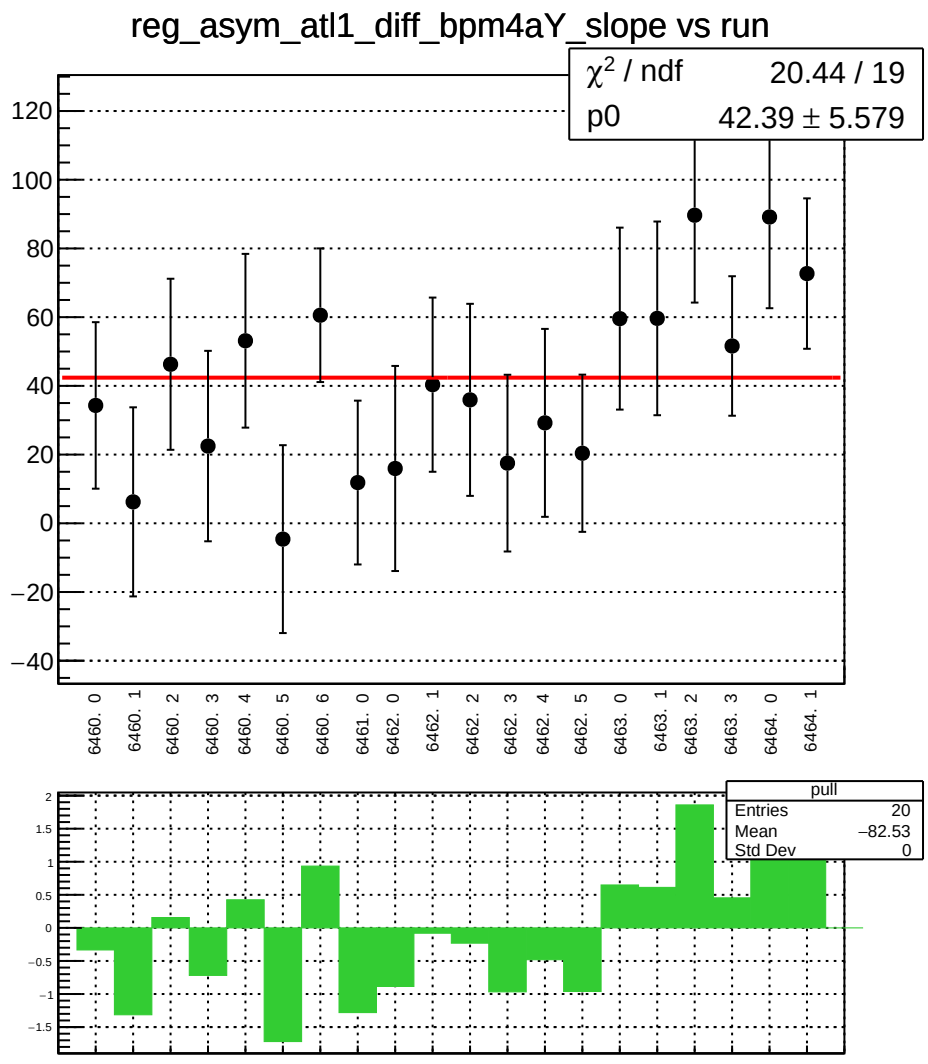

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.391 / 19
p0 −70.32 ± 1.326
−60
−65
−70
−75
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 25.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.003001
Std Dev 0.2637
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

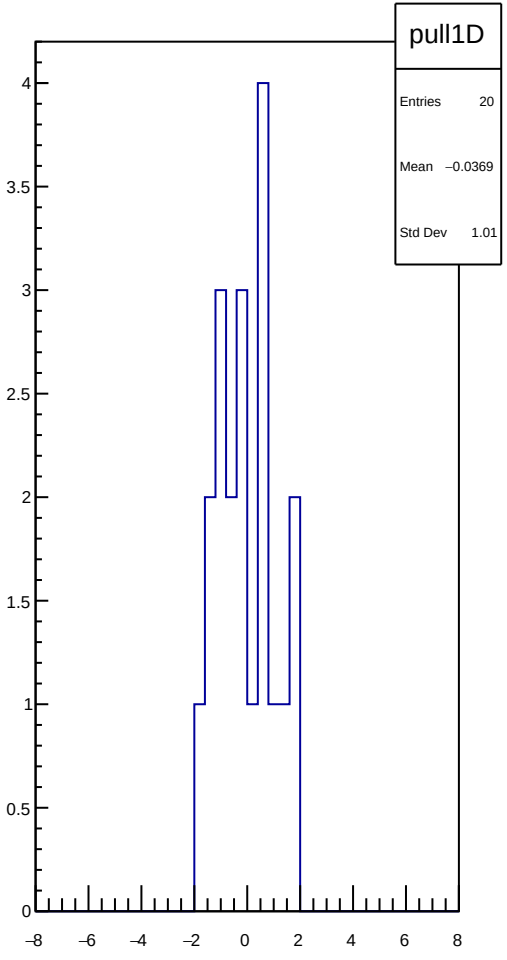

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3789 / 19
p0 41.98 ± 1.578
52
50
48
46
44
42
40
38
36
34
32
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −89.14
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 20
Mean −0.004809
Std Dev 0.1376
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

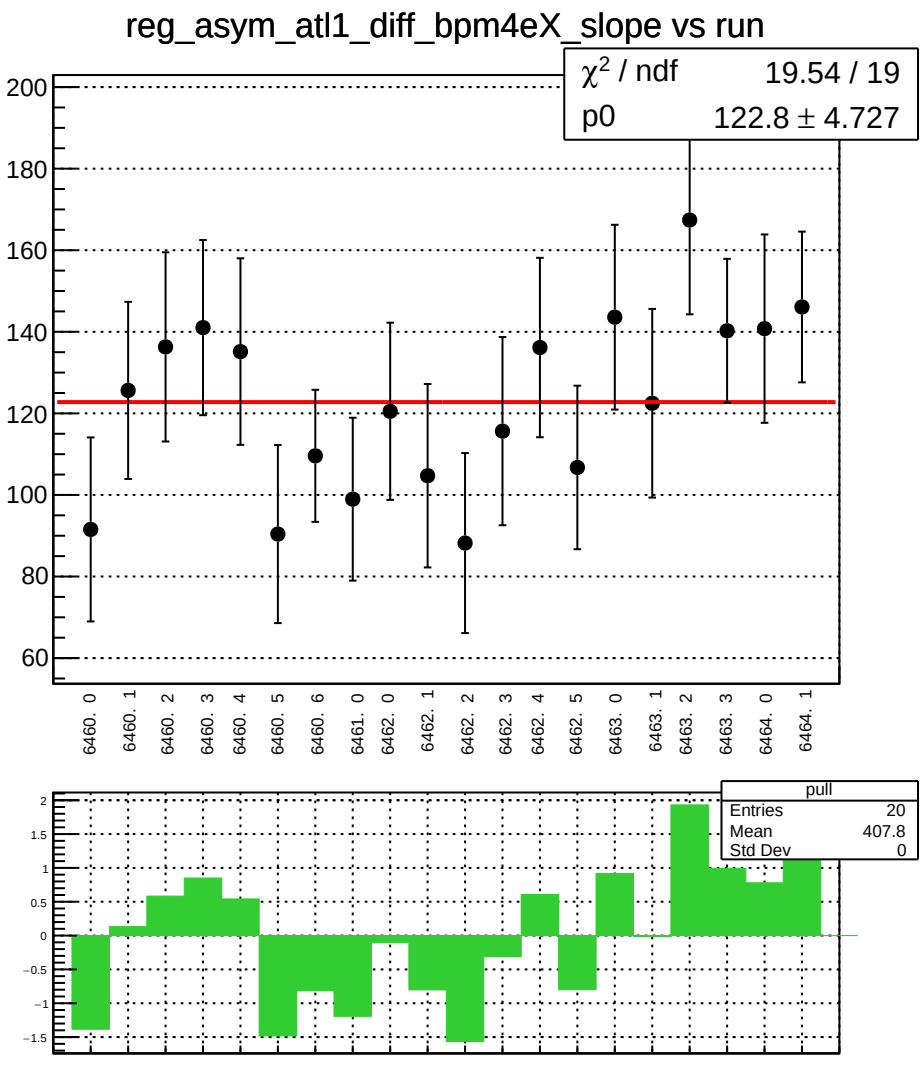

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.5202 / 19
p0 0.5395 ± 0.06603
1
0.8
0.6
0.4
0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −286.3
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 20
Mean −0.002508
Std Dev 0.1613
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

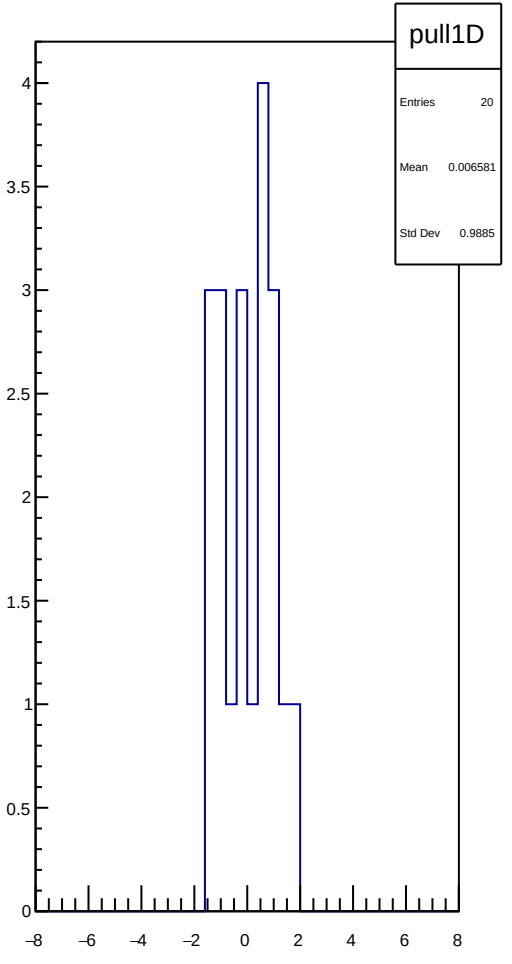

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 19.44 / 19
p0 −75.63 ± 4.768
−20
−40
−60
−80
−100
−120
−140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2841
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

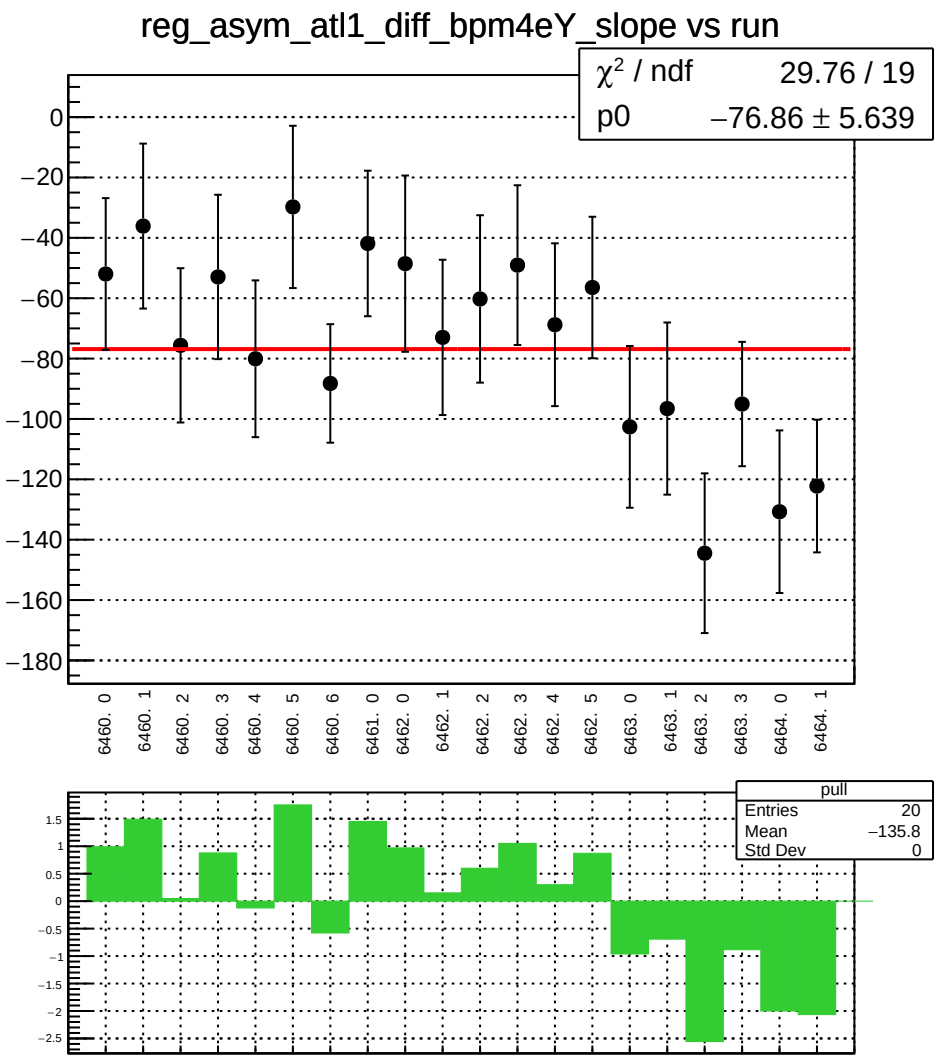

pull1D
Entries 20
Mean −0.0009194
Std Dev 0.986
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

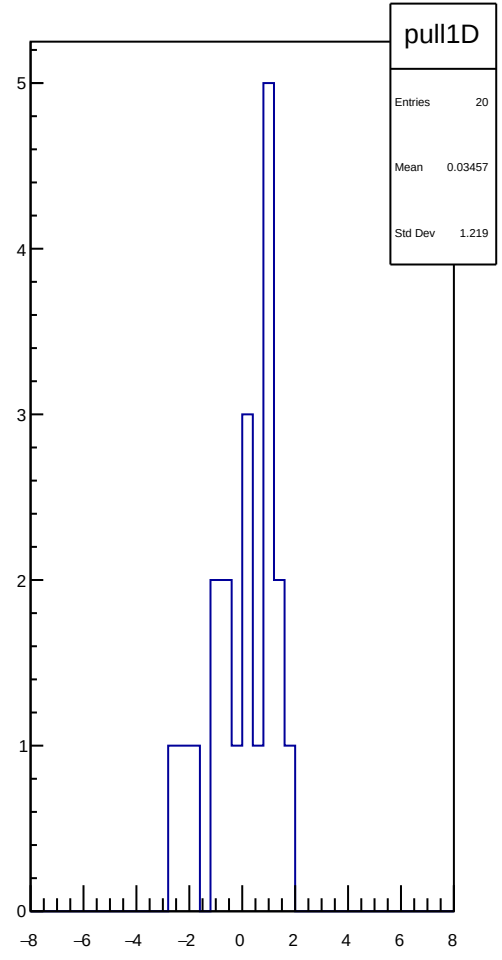

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 20.44 / 19
p0 42.39 ± 5.579
120
100
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −82.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

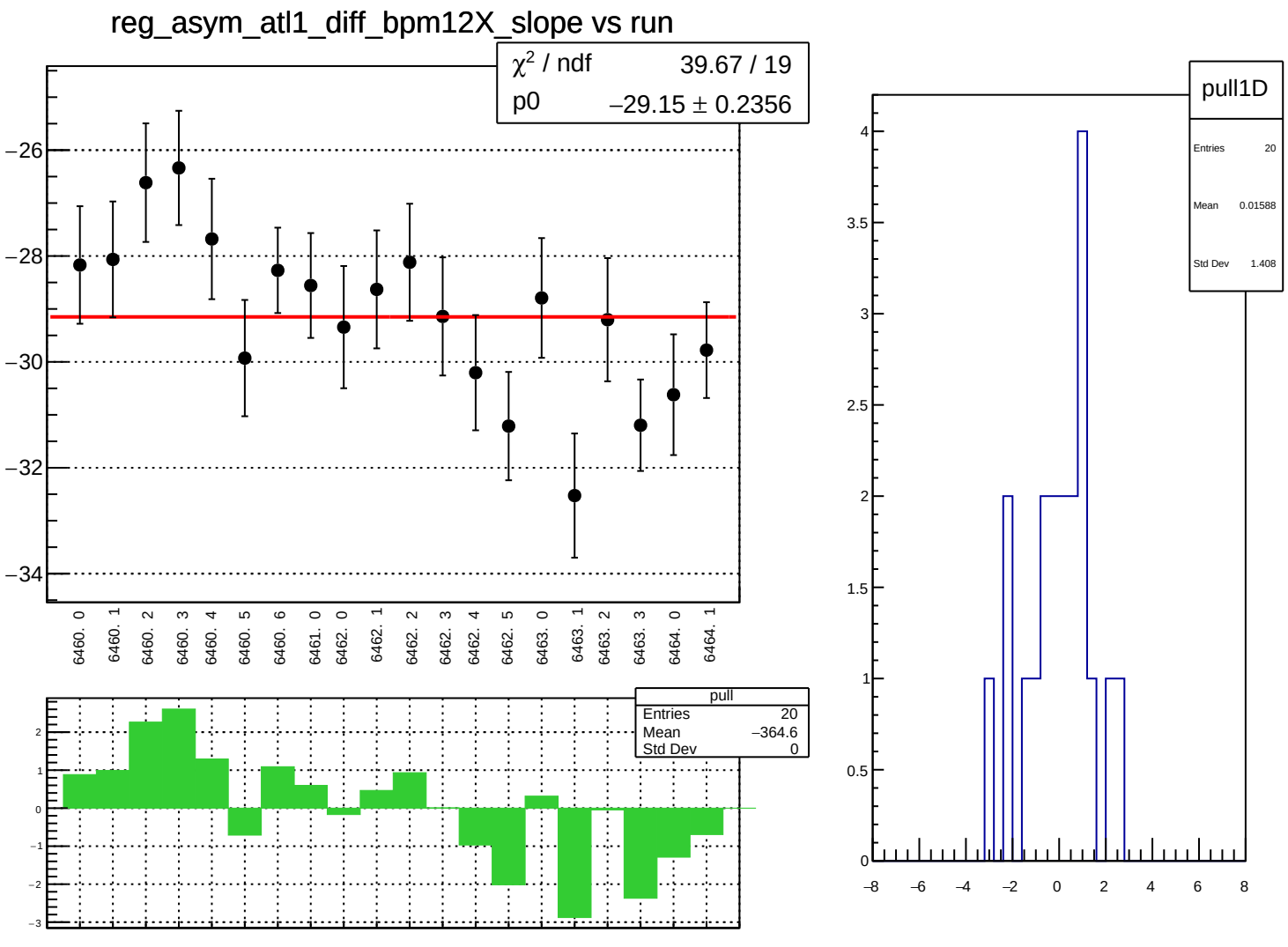

pull1D
Entries 20
Mean −0.0369
Std Dev 1.01
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

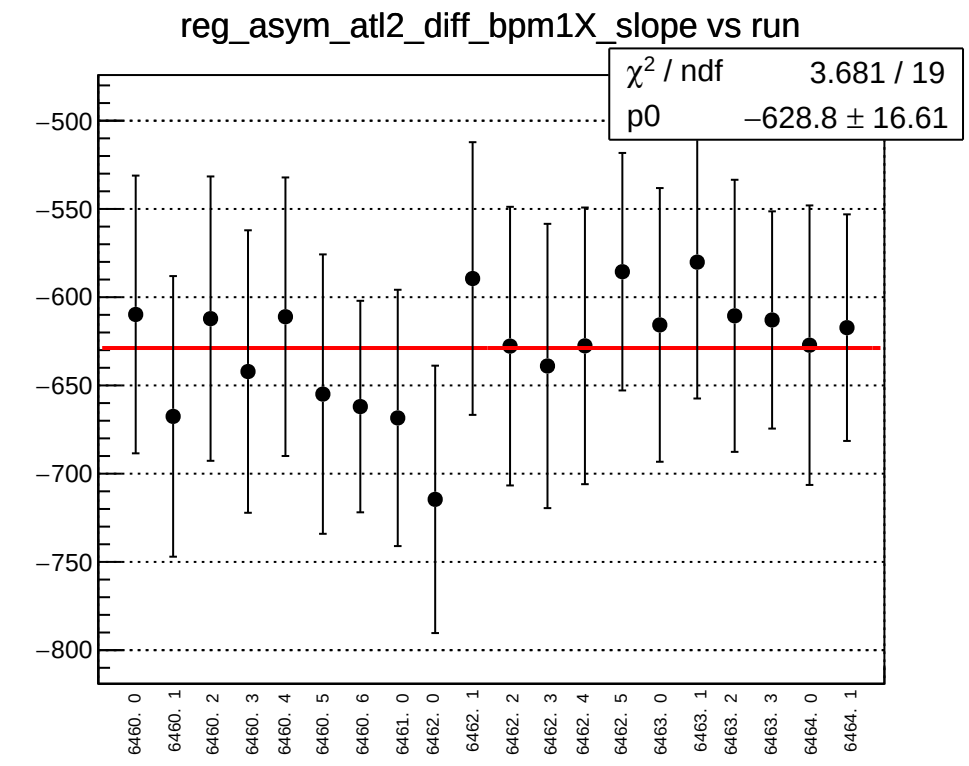

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 19.54 / 19
p0 122.8 ± 4.727
200
180
160
140
120
100
80
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 407.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

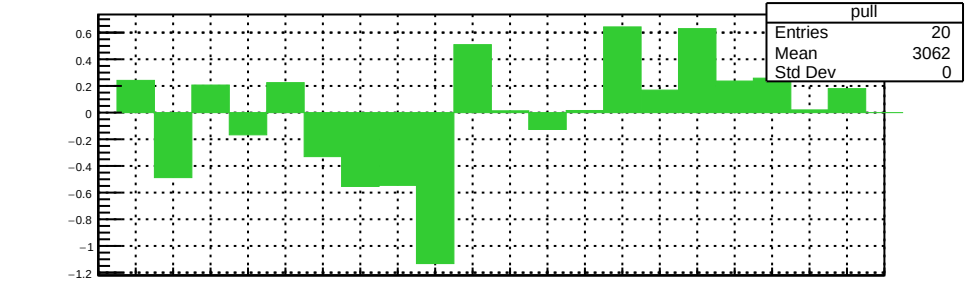

pull1D
Entries 20
Mean 0.006581
Std Dev 0.9885
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

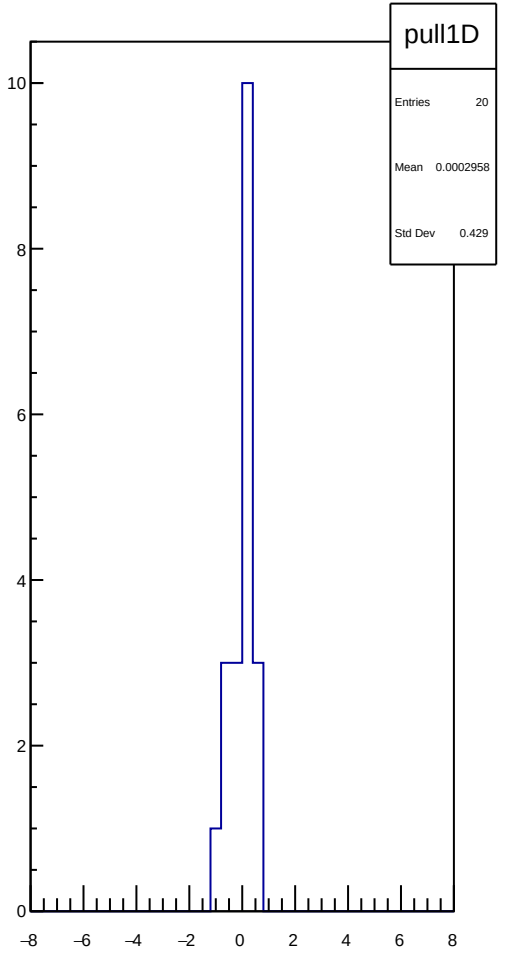

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 29.76 / 19
p0 −76.86 ± 5.639
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −135.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

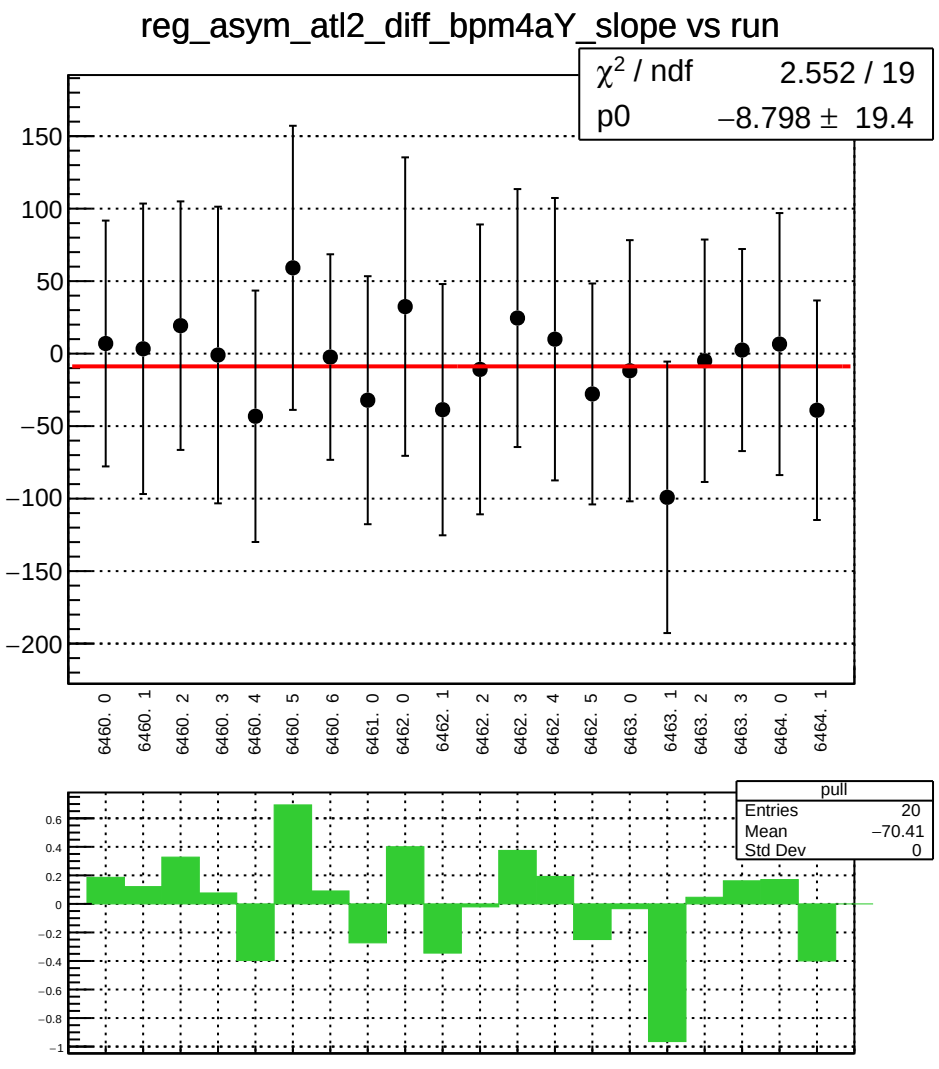

pull1D
Entries 20
Mean 0.03457
Std Dev 1.219
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

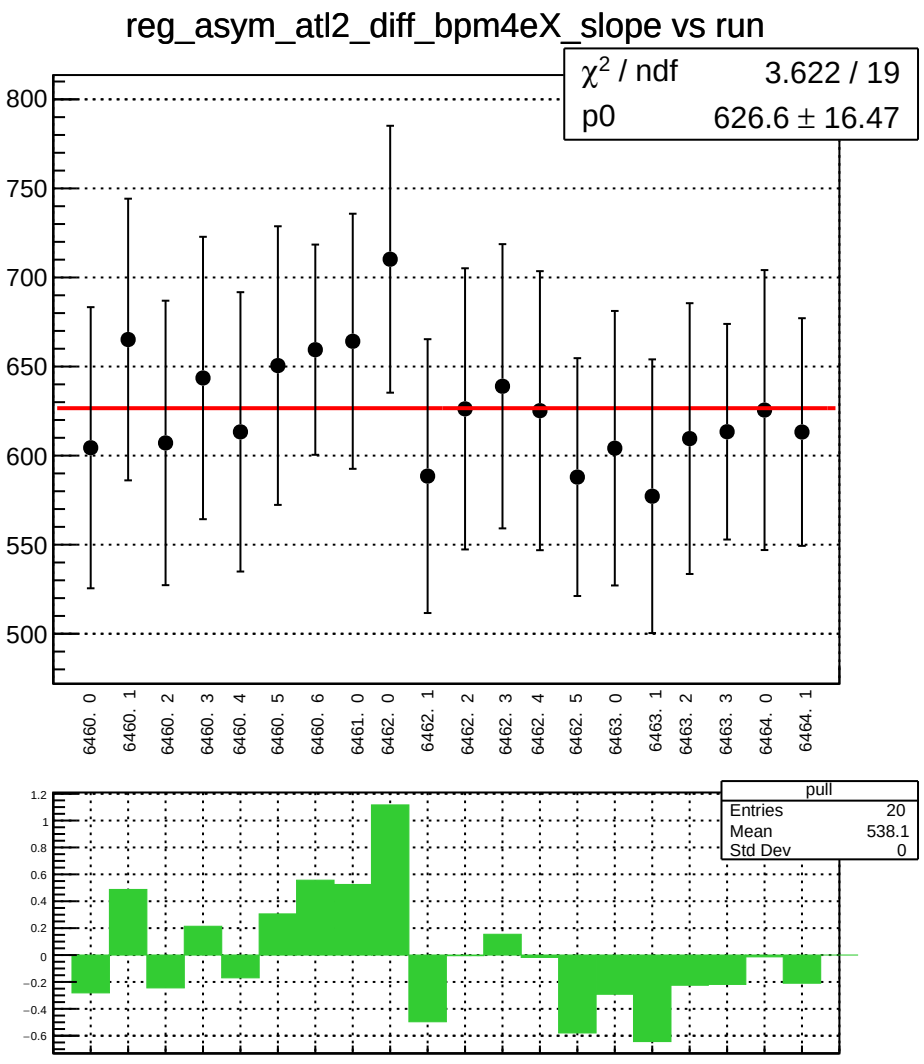

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 39.67 / 19
p0 −29.15 ± 0.2356
−26
−28
−30
−32
−34
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −364.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 20
Mean 0.01588
Std Dev 1.408
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

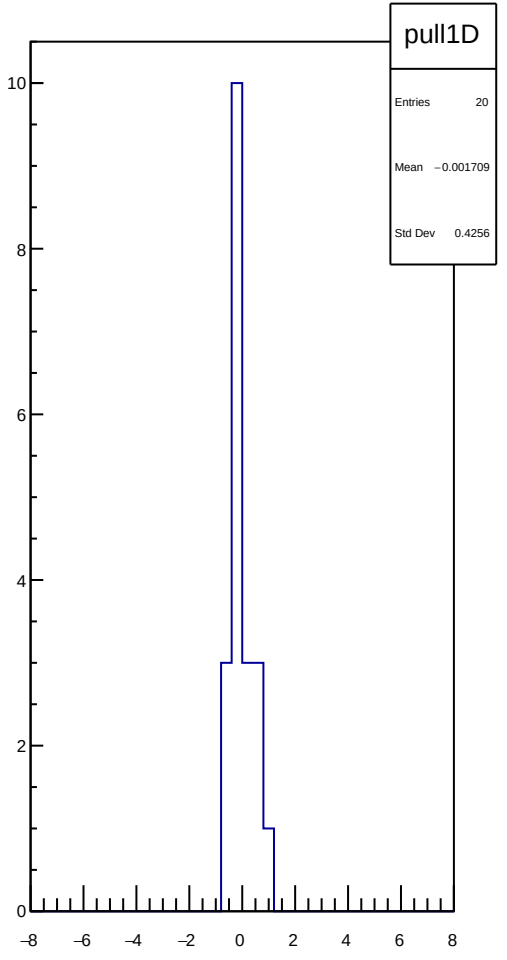

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 3.681 / 19
p0 −628.8 ± 16.61
−500
−550
−600
−650
−700
−750
−800
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

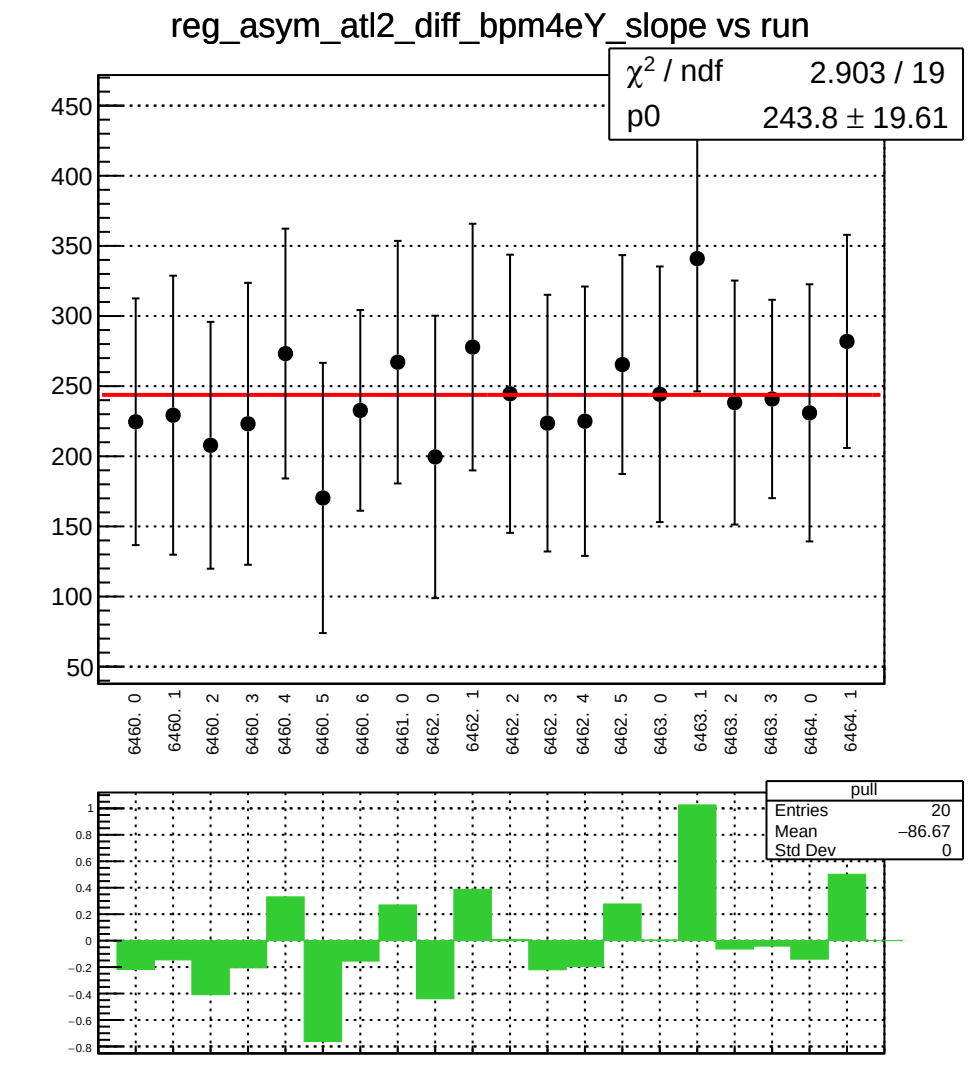

pull
Entries 20
Mean 3062
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

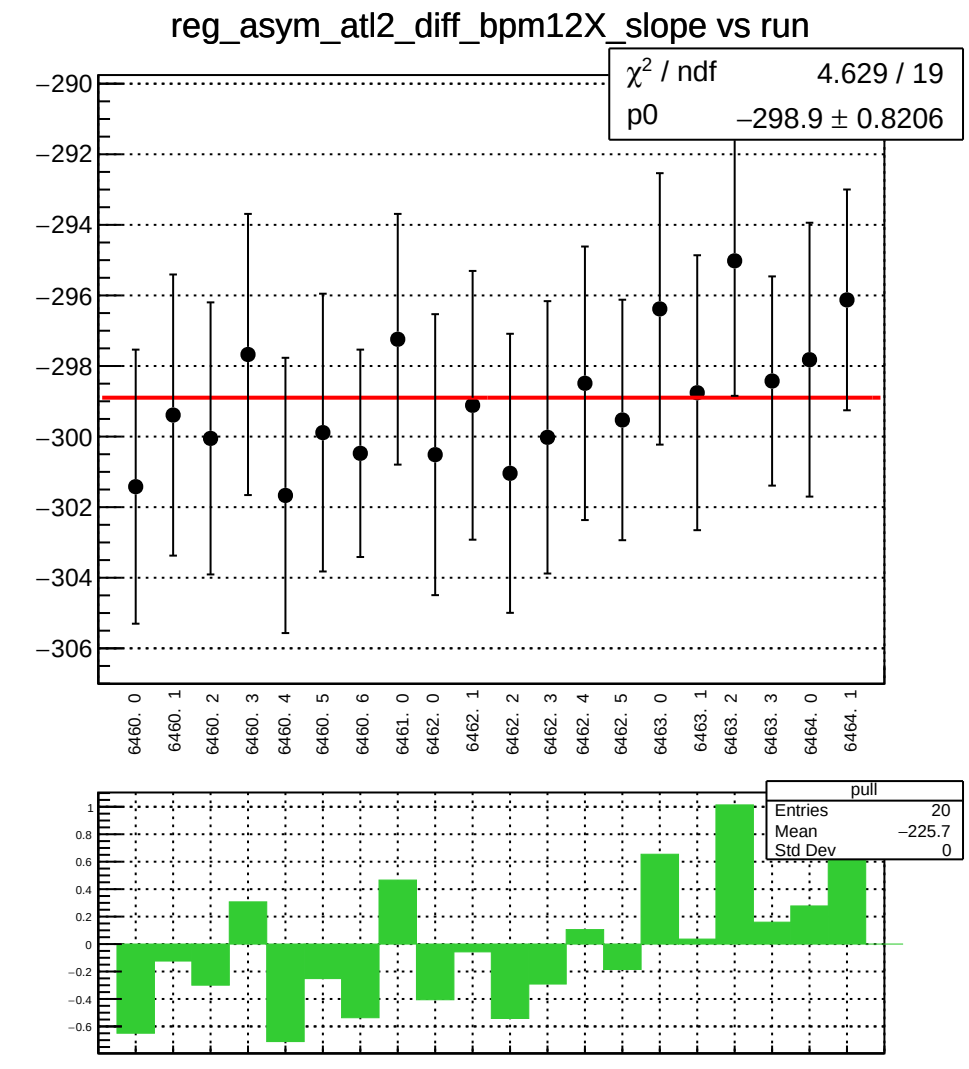

pull1D
Entries 20
Mean 0.0002958
Std Dev 0.429
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

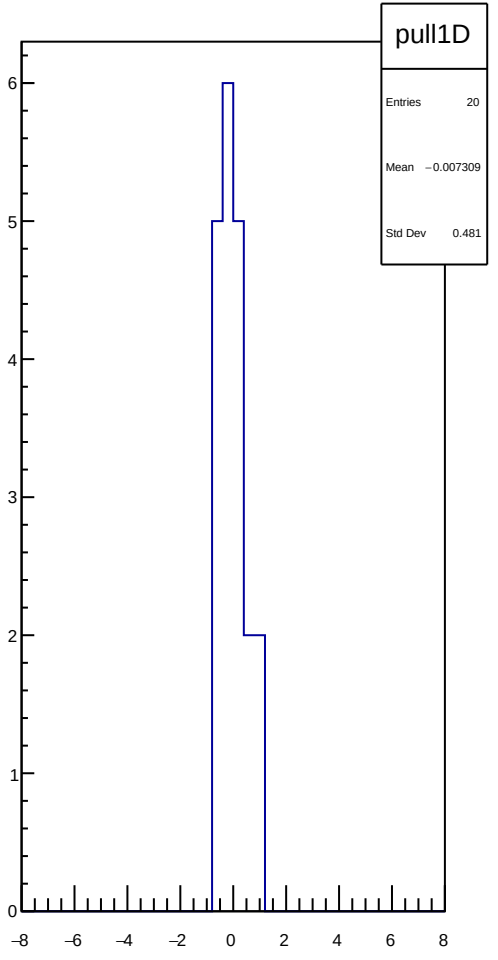

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 2.552 / 19
p0 −8.798 ± 19.4
150
100
50
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −70.41
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 20
Mean 0.008012
Std Dev 0.3571
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

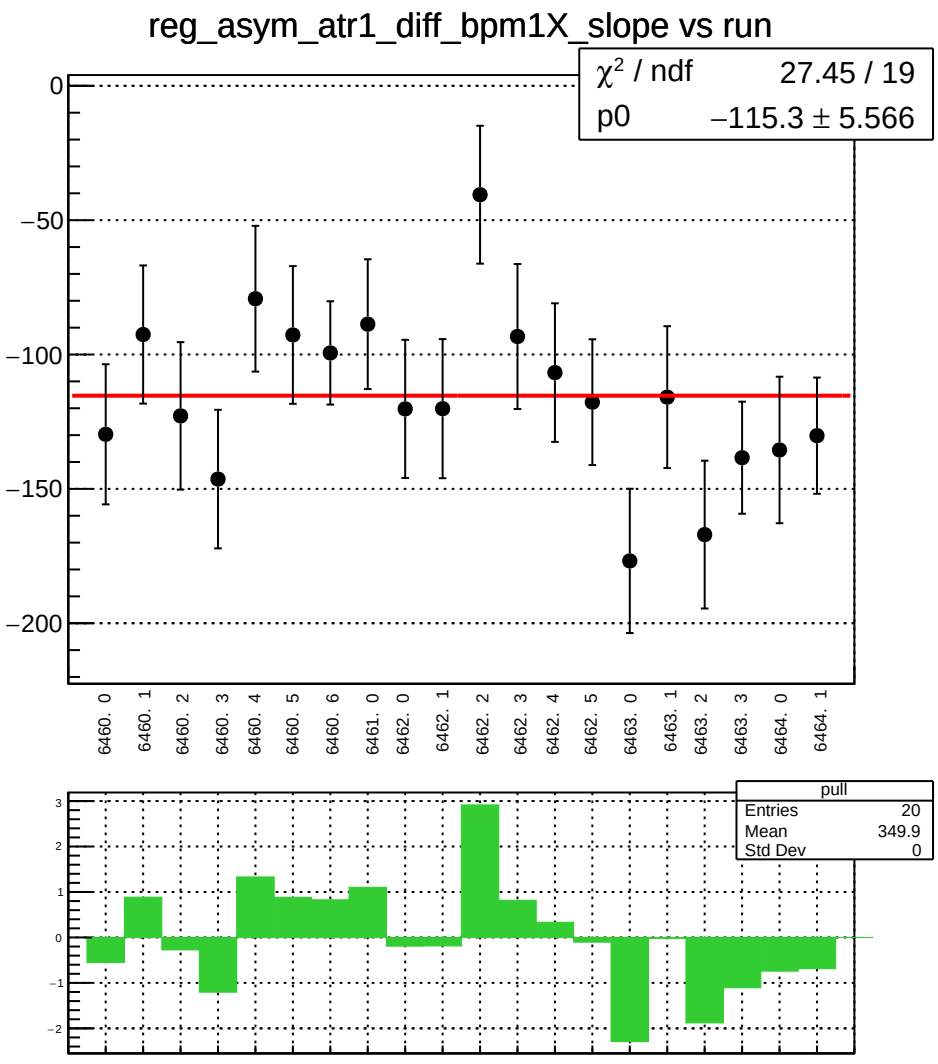

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 3.622 / 19
p0 626.6 ± 16.47
800
750
700
650
600
550
500
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 538.1
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

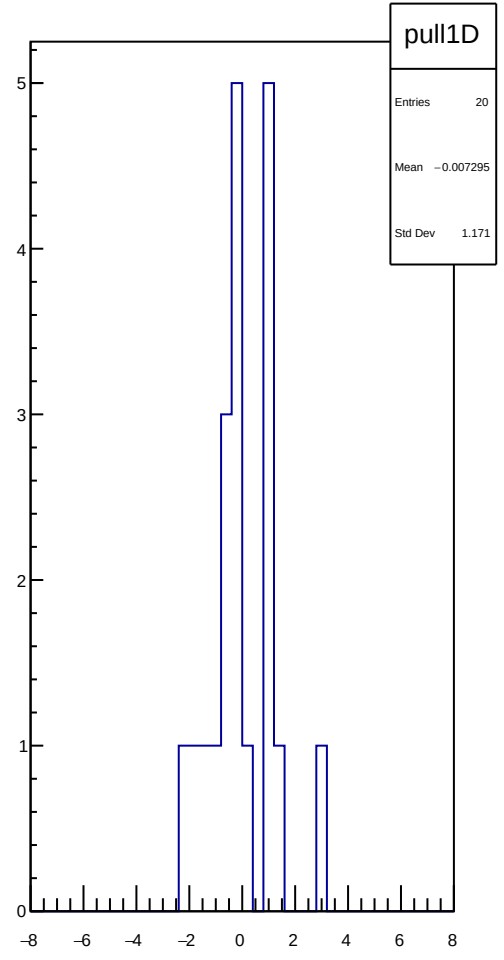

pull1D
Entries 20
Mean −0.001709
Std Dev 0.4256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

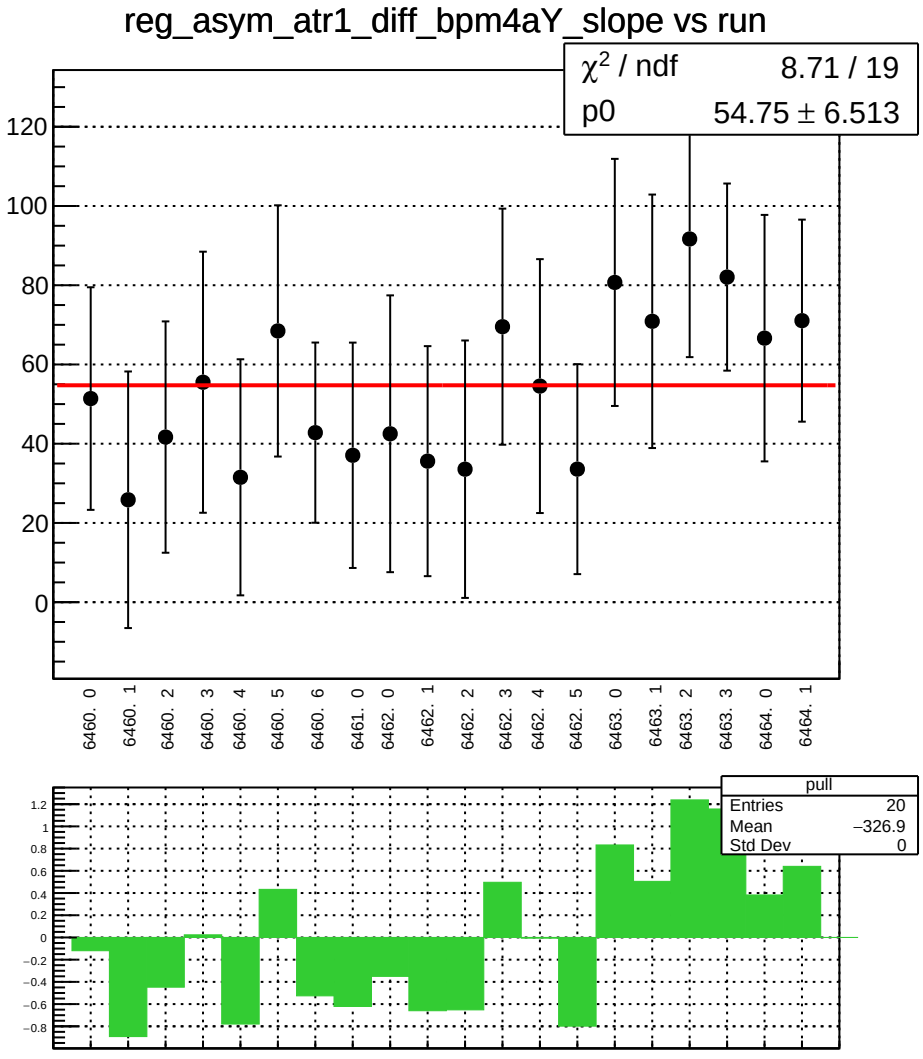

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 2.903 / 19
p0 243.8 ± 19.61
450
400
350
300
250
200
150
100
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −86.67
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.009482
Std Dev 0.3808
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

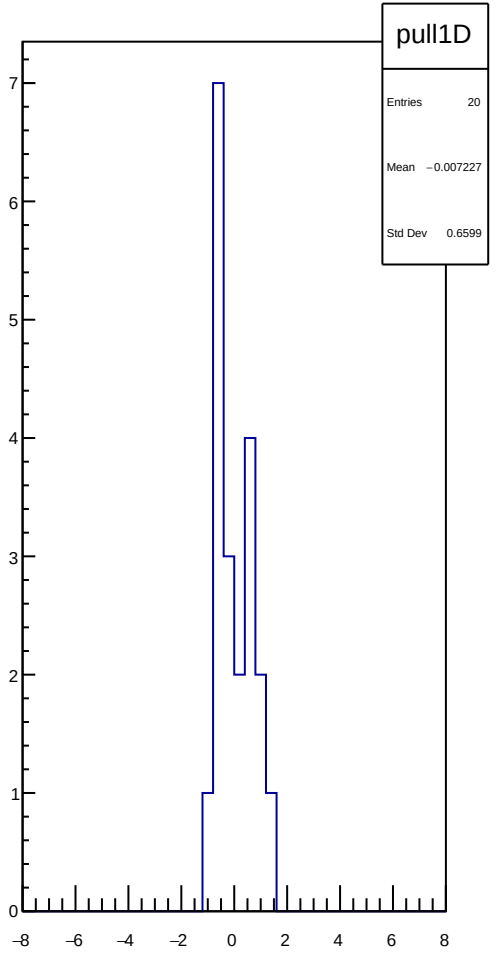

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 4.629 / 19
p0 −298.9 ± 0.8206
−290
−292
−294
−296
−298
−300
−302
−304
−306
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −225.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

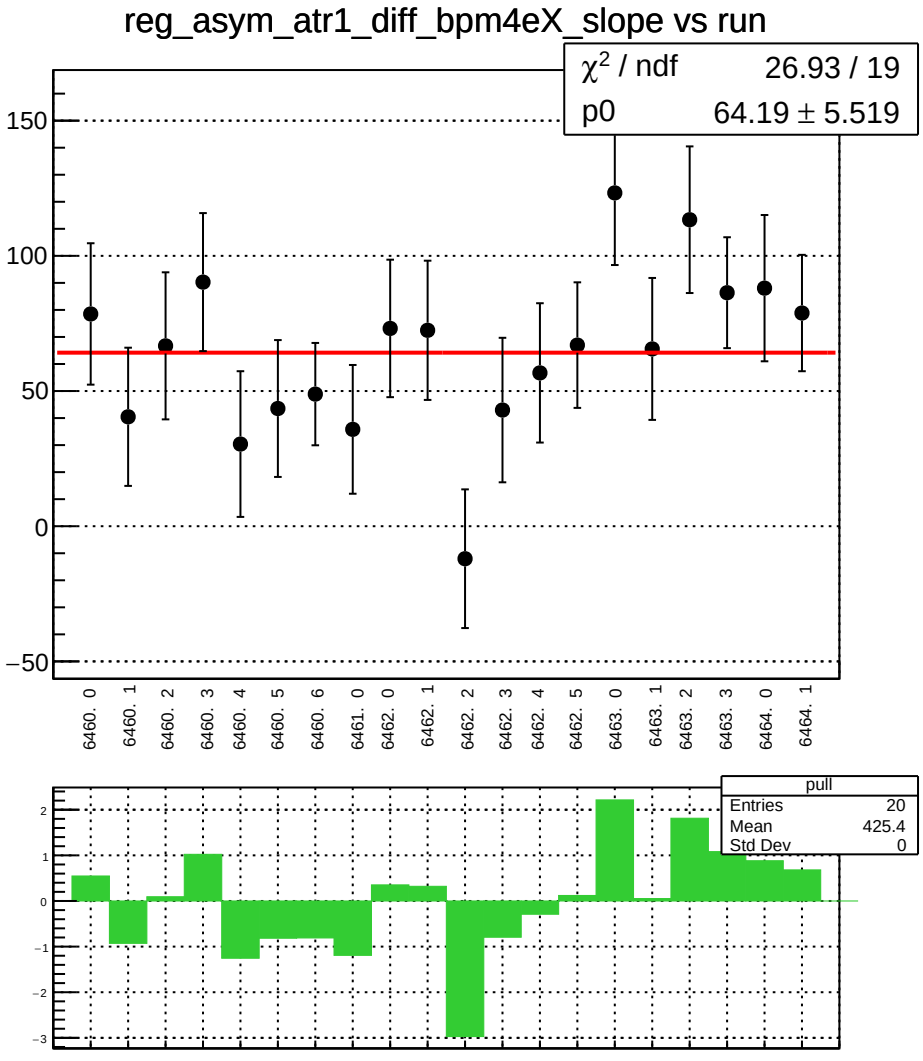

pull1D
Entries 20
Mean −0.007309
Std Dev 0.481
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

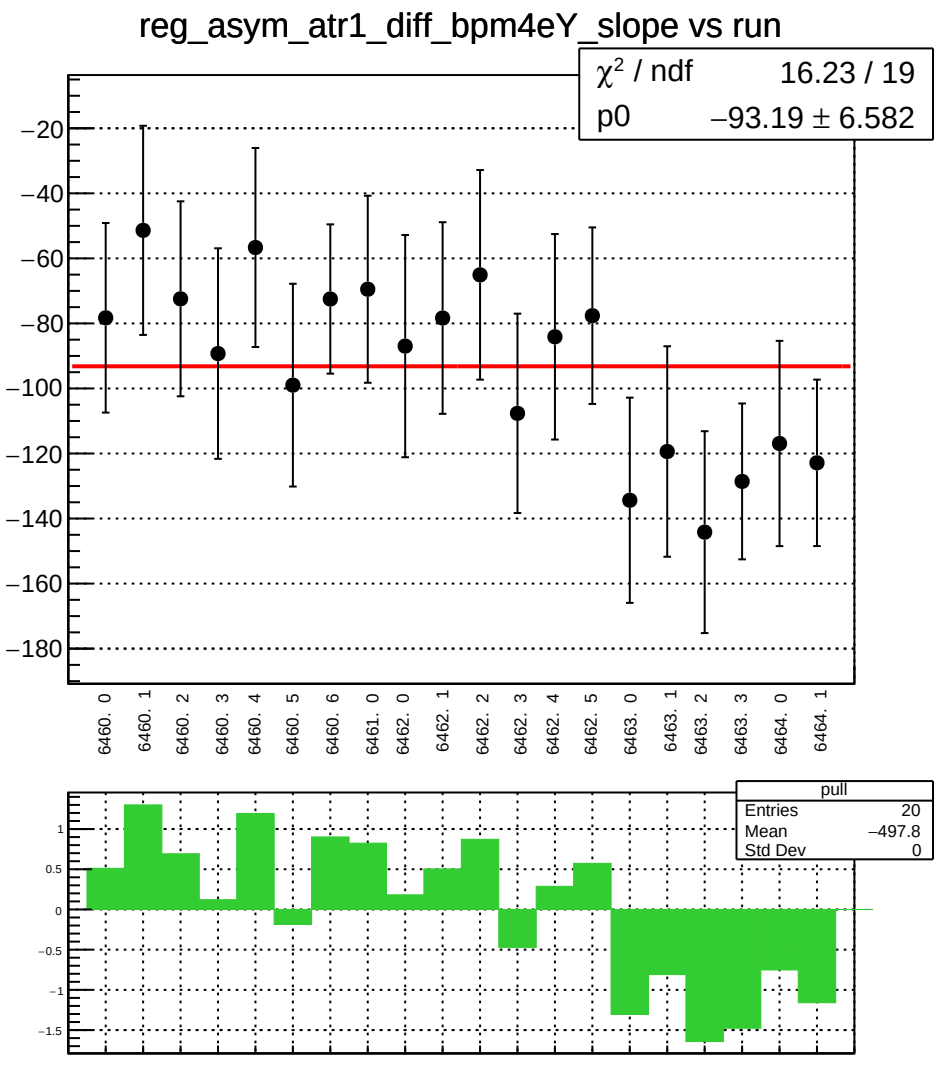

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 27.45 / 19
p0 −115.3 ± 5.566
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 349.9
Std Dev 0
3
2
1
0
−1
−2

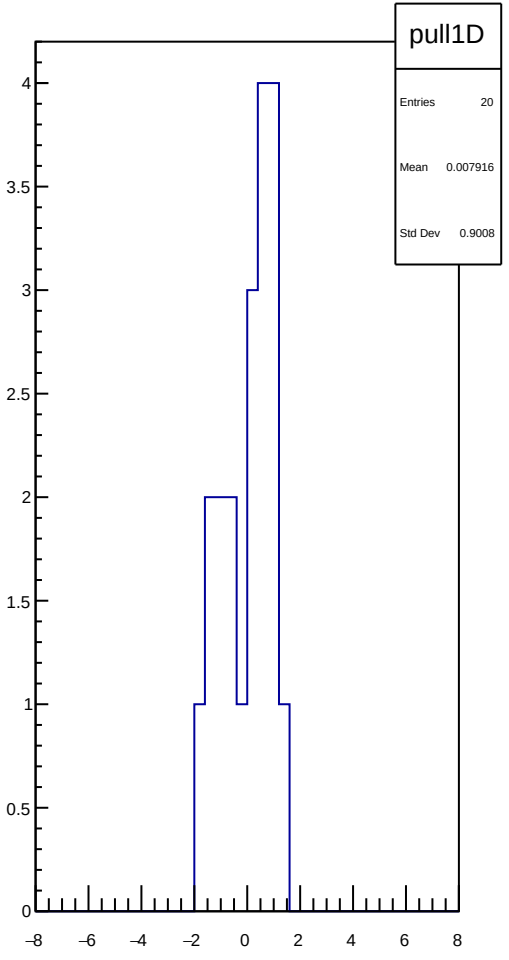

pull1D
Entries 20
Mean −0.007295
Std Dev 1.171
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

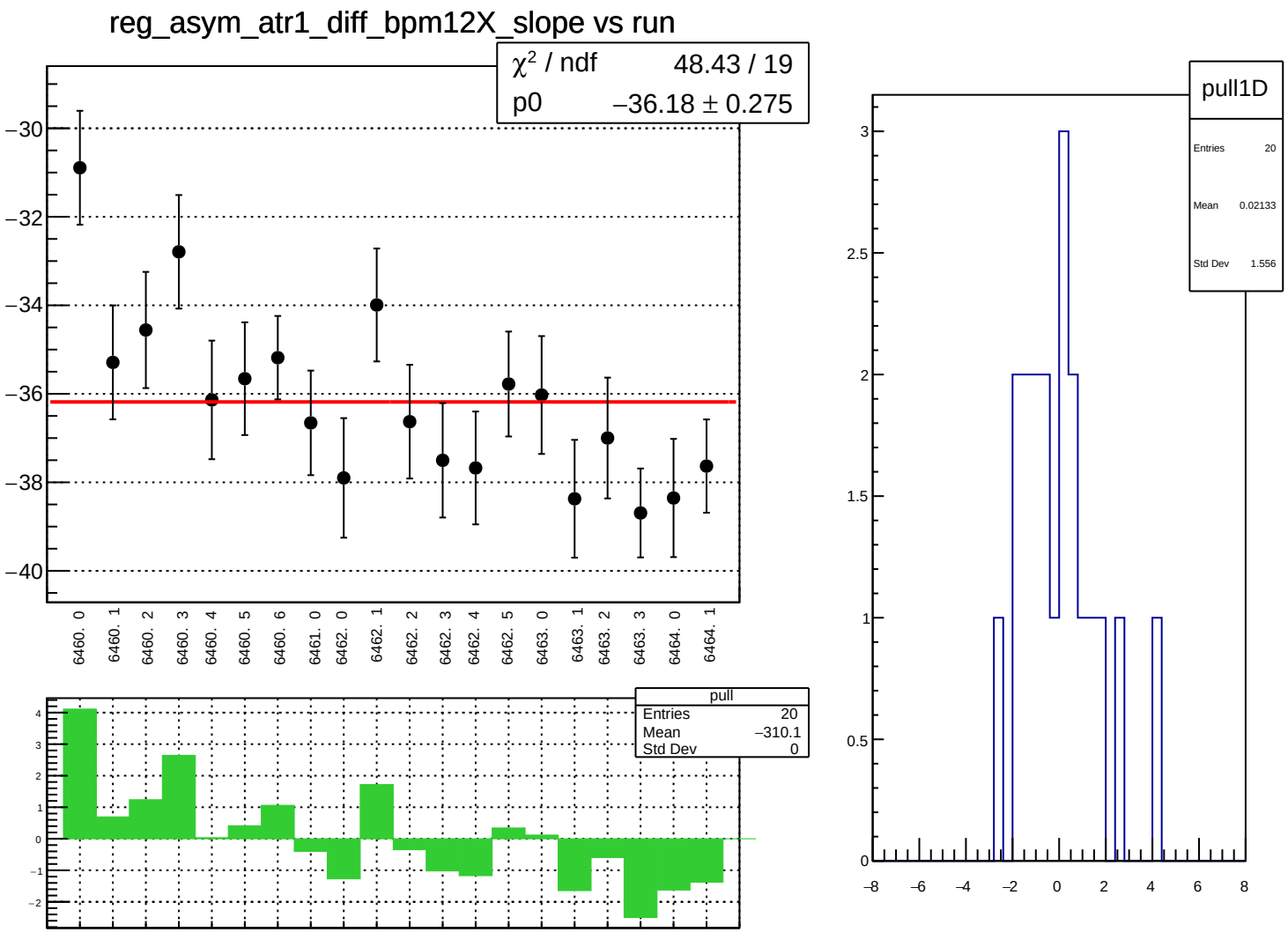

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 8.71 / 19
p0 54.75 ± 6.513
120
100
80
60
40
20
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −326.9
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

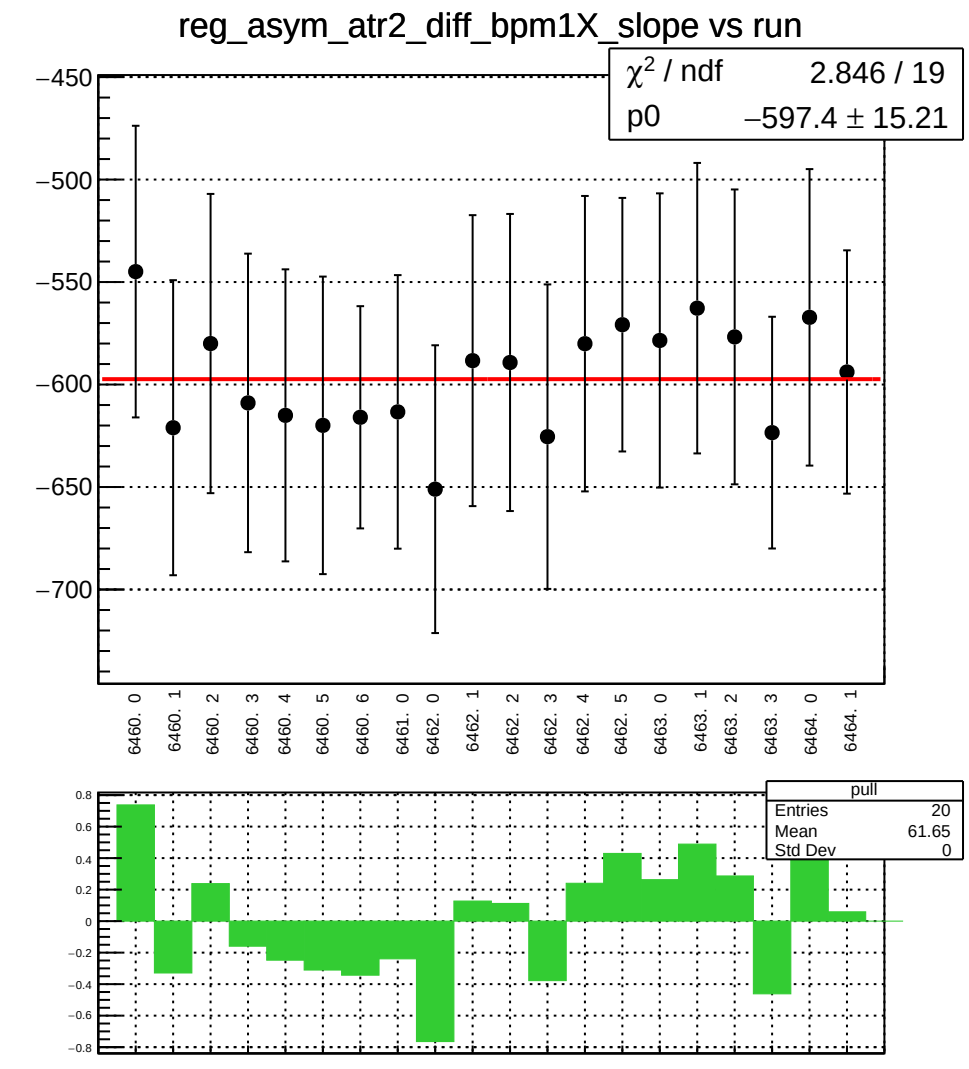

pull1D
Entries 20
Mean −0.007227
Std Dev 0.6599
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

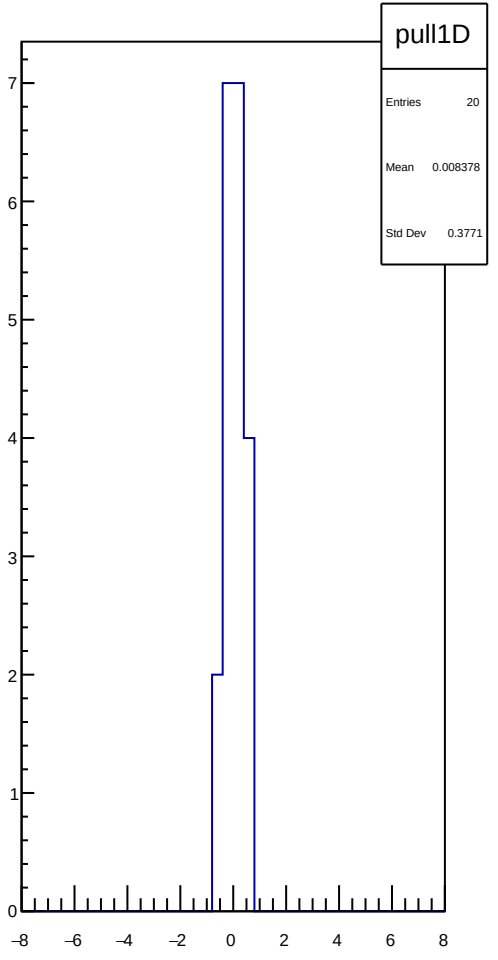

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 26.93 / 19
p0 64.19 ± 5.519
150
100
50
0
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 425.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 20
Mean 0.006281
Std Dev 1.16
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

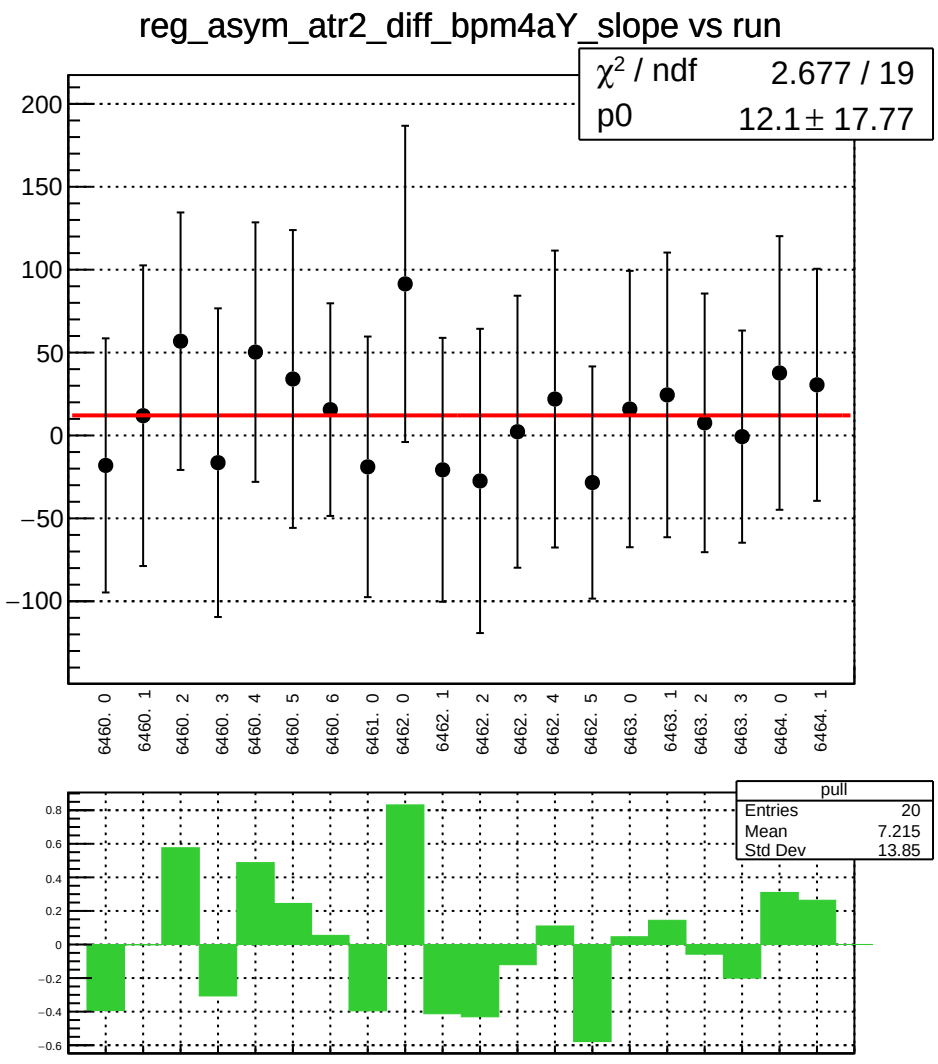

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 16.23 / 19
p0 −93.19 ± 6.582
−20
−40
−60
−80
−100
−120
−140
−160
−180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −497.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

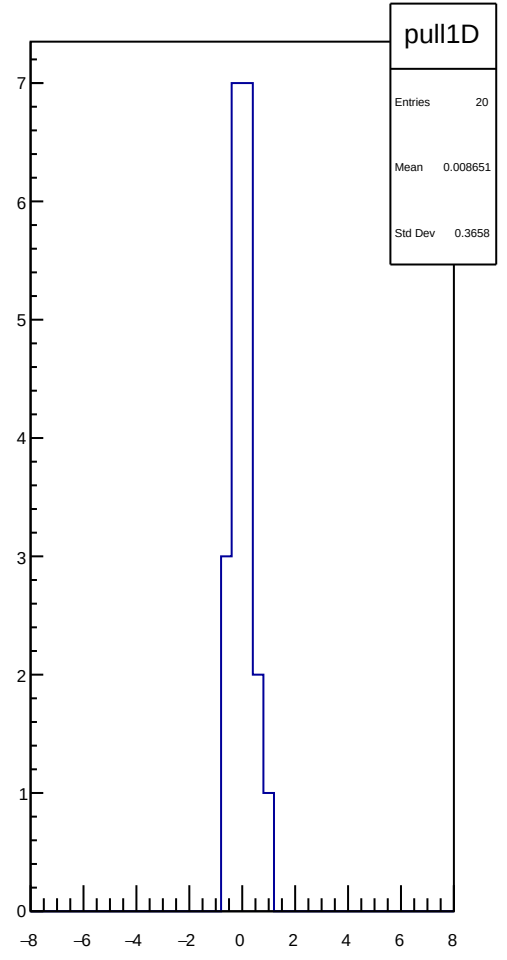

pull1D
Entries 20
Mean 0.007916
Std Dev 0.9008
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

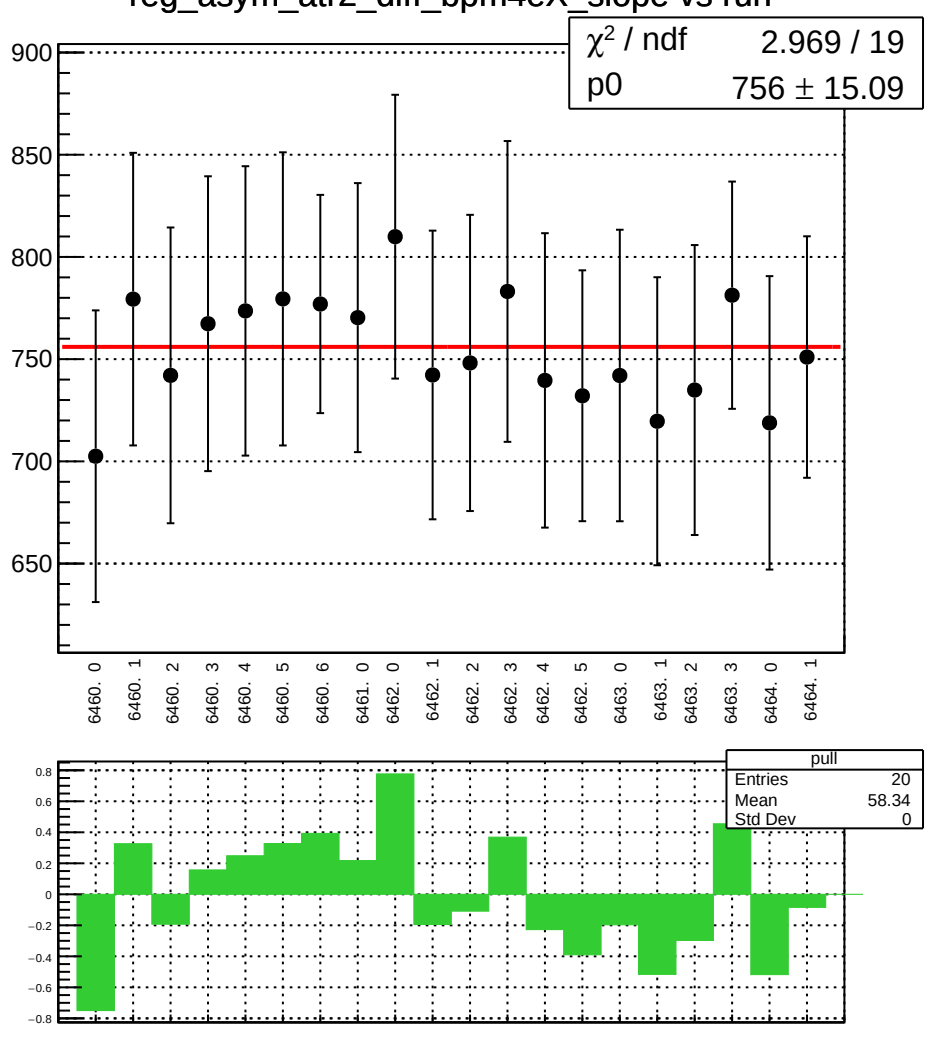

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 48.43 / 19
p0 −36.18 ± 0.275
−30
−32
−34
−36
−38
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −310.1
Std Dev 0
pull1D
Entries 20
Mean 0.02133
Std Dev 1.556

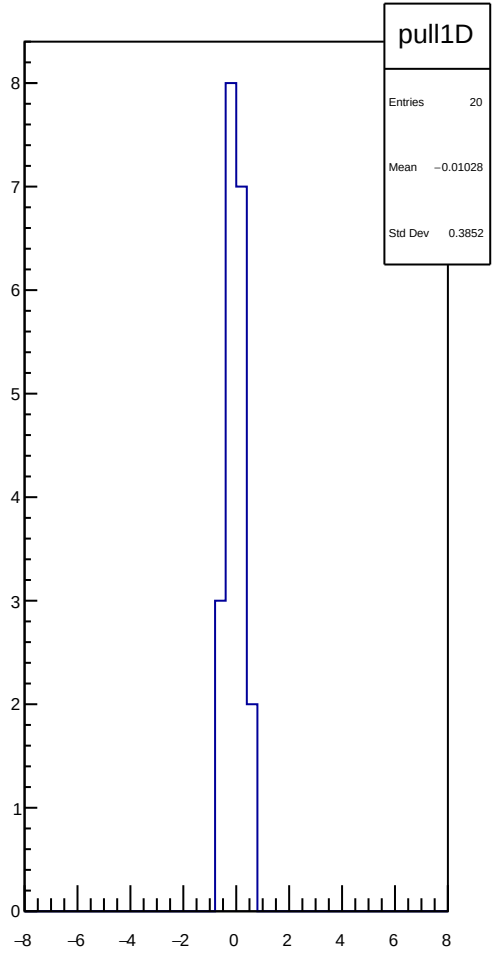

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 2.846 / 19
p0 −597.4 ± 15.21
−450
−500
−550
−600
−650
−700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 61.65
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

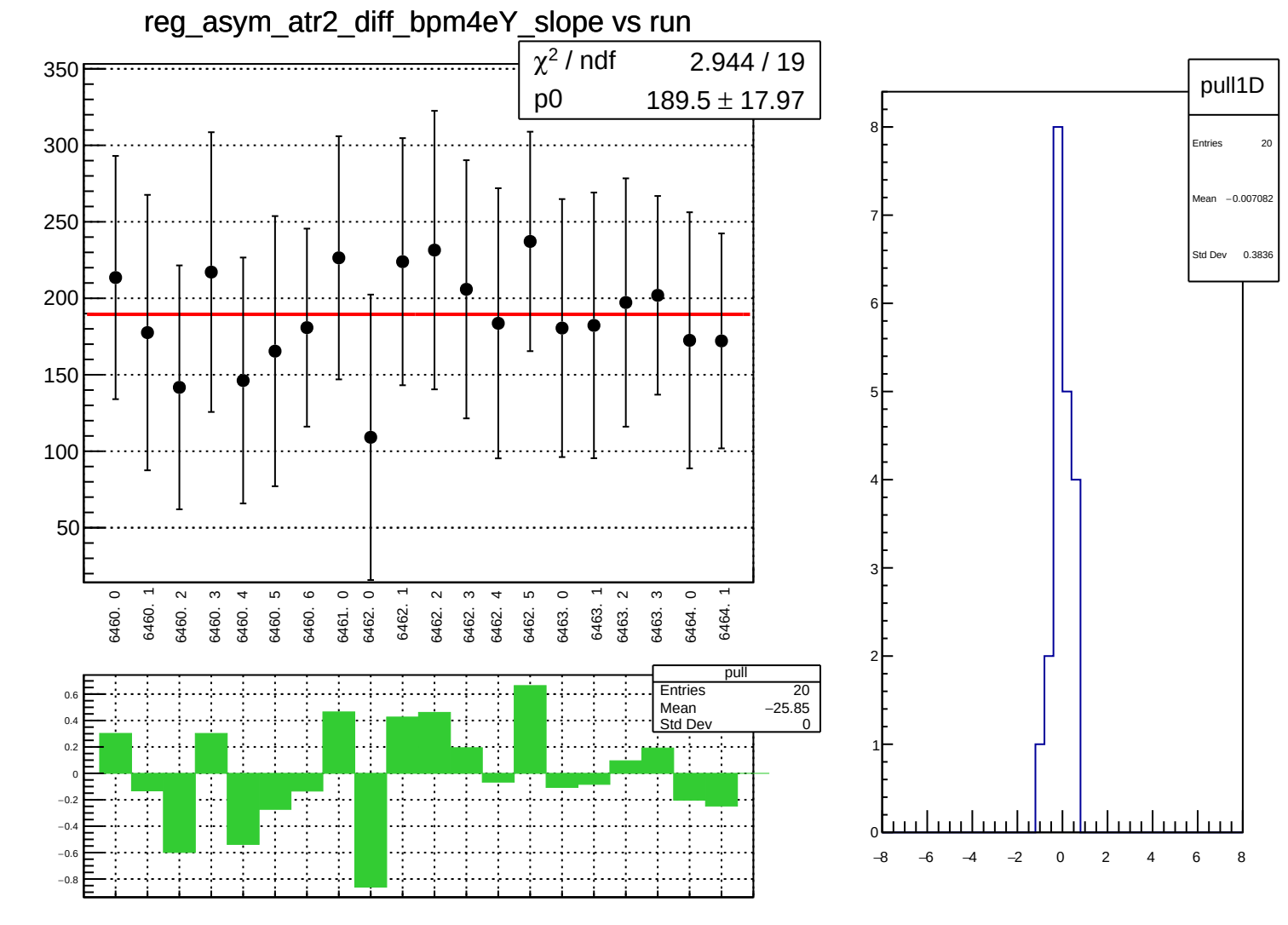

pull1D
Entries 20
Mean 0.008378
Std Dev 0.3771
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

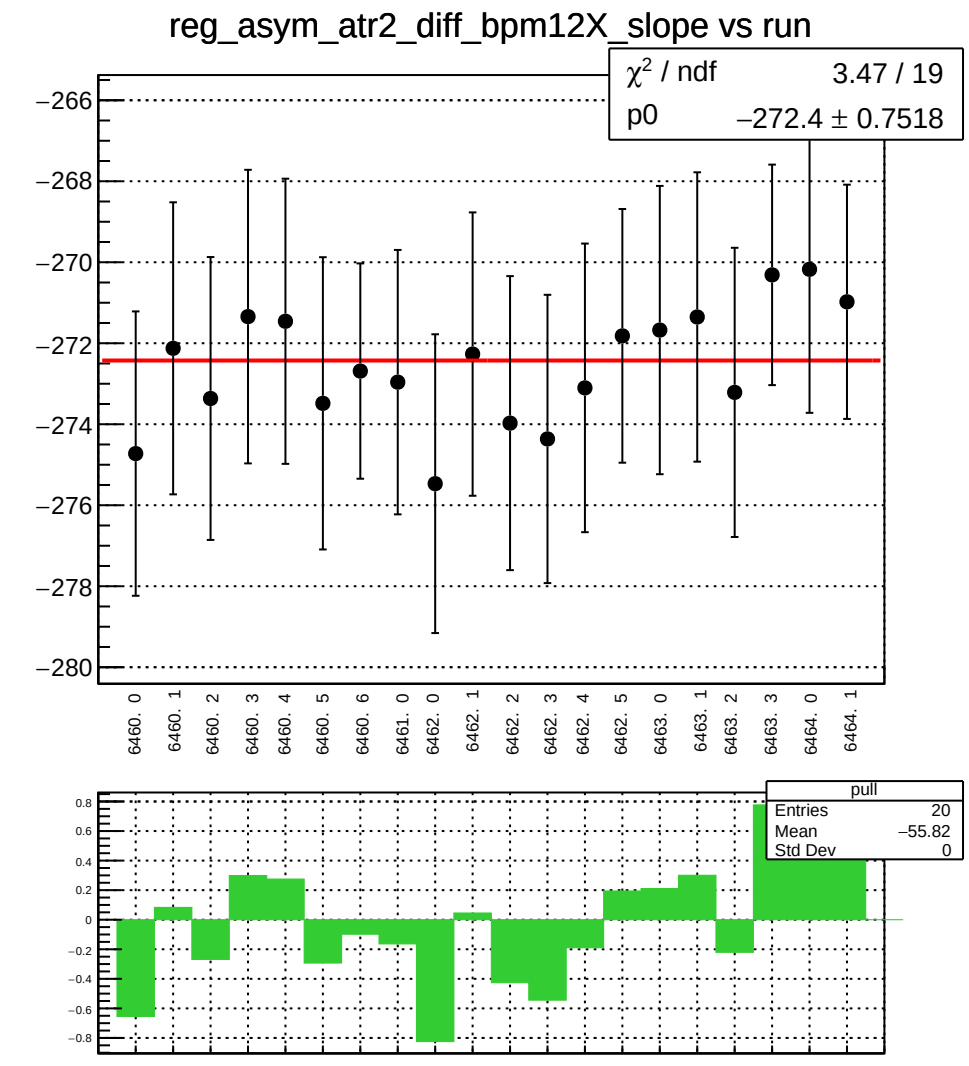

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 2.677 / 19
p0 12.1 ± 17.77
200
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.215
Std Dev 13.85
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

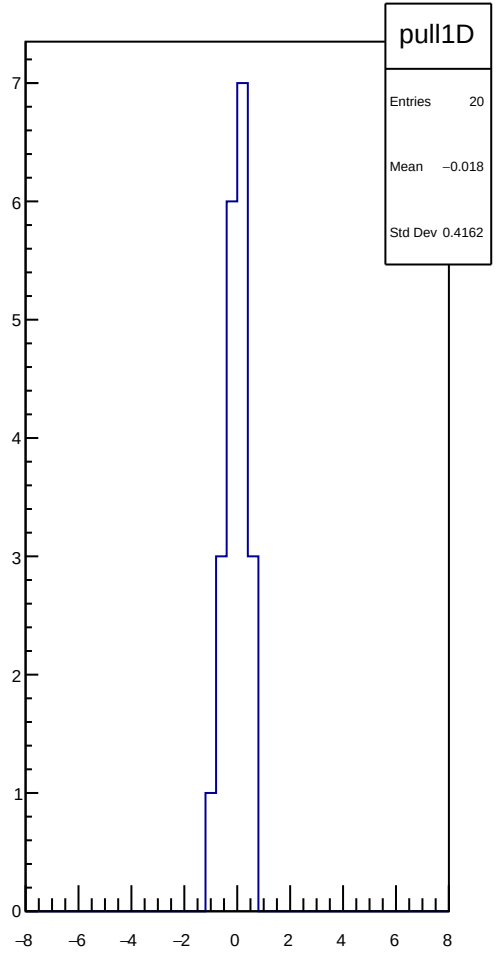

pull1D
Entries 20
Mean 0.008651
Std Dev 0.3658
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

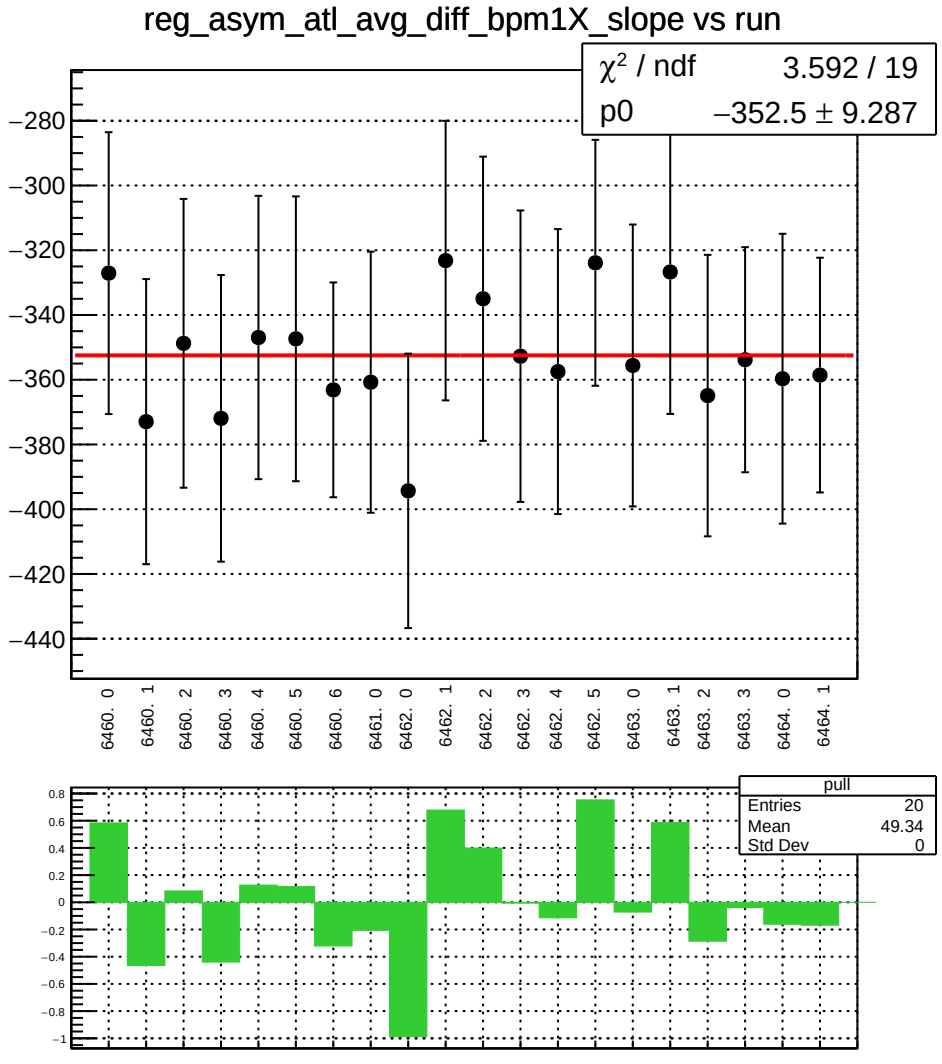

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 2.969 / 19
p0 756 ± 15.09
900
850
800
750
700
650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 58.34
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

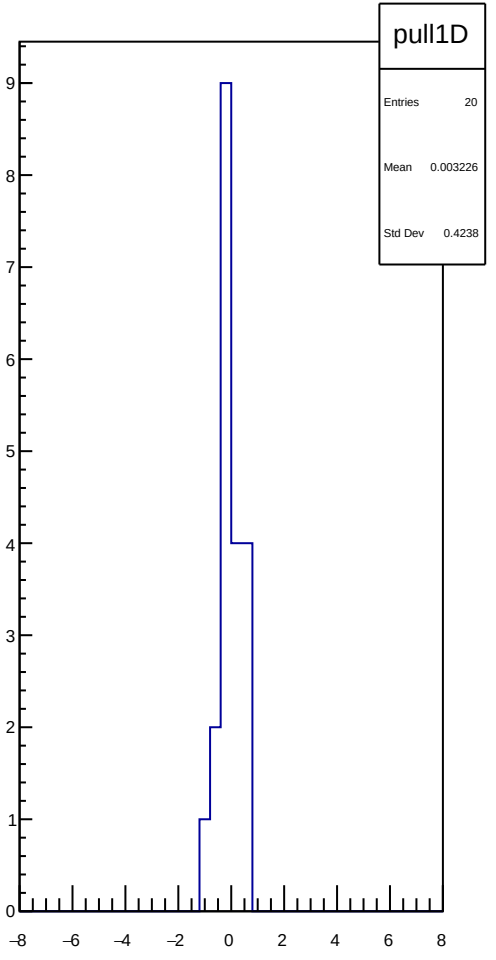

pull1D
Entries 20
Mean −0.01028
Std Dev 0.3852
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

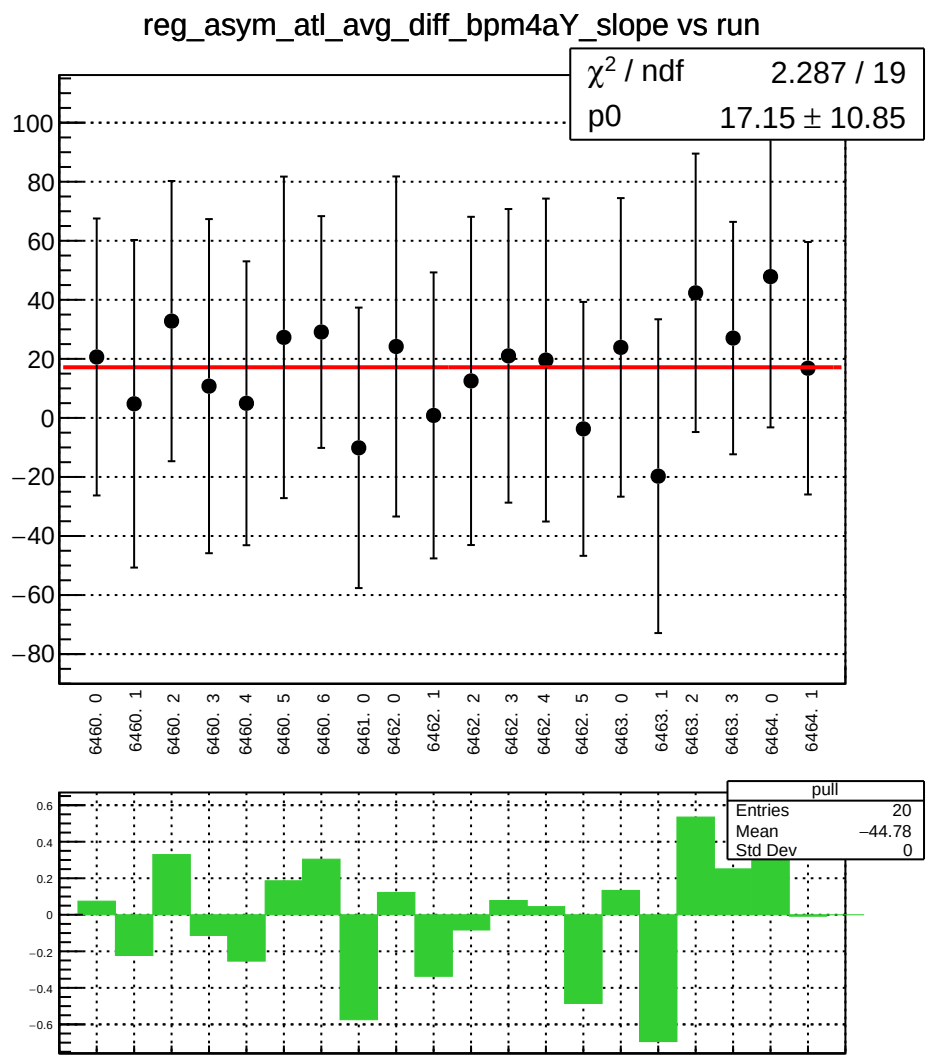

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 2.944 / 19
p0 189.5 ± 17.97
350
300
250
200
150
100
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −25.85
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.007082
Std Dev 0.3836
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

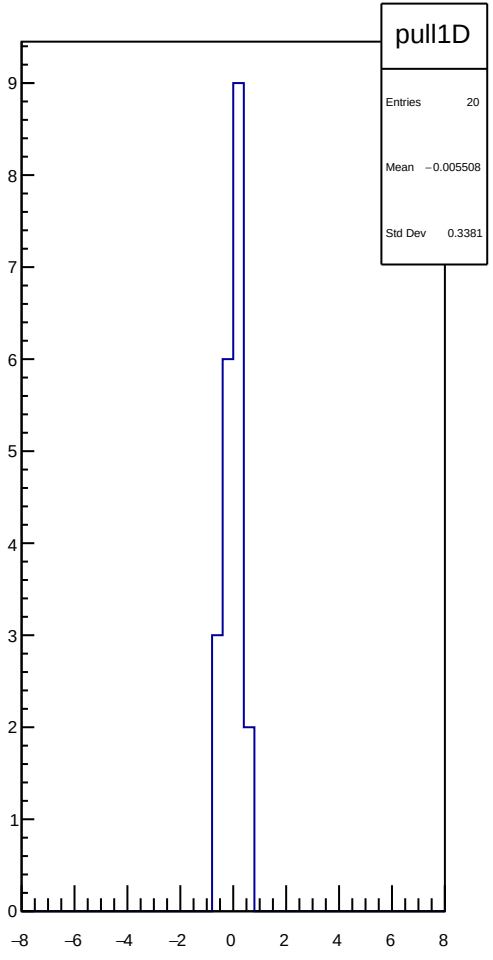

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 3.47 / 19
p0 −272.4 ± 0.7518
−266
−268
−270
−272
−274
−276
−278
−280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −55.82
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

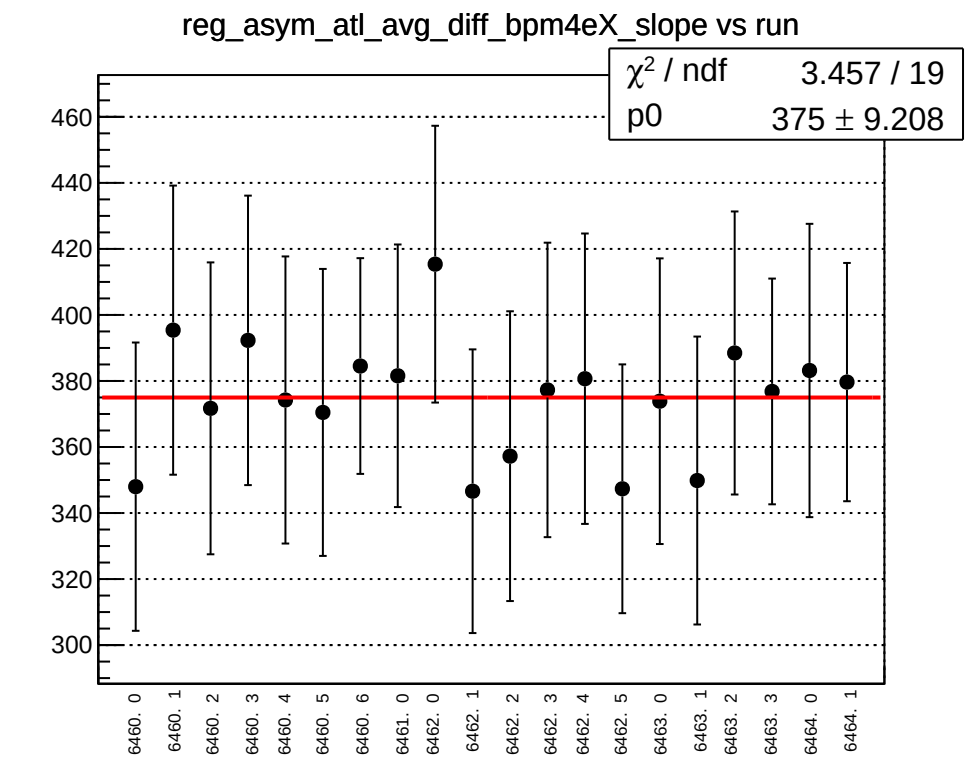

pull1D
Entries 20
Mean −0.018
Std Dev 0.4162
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

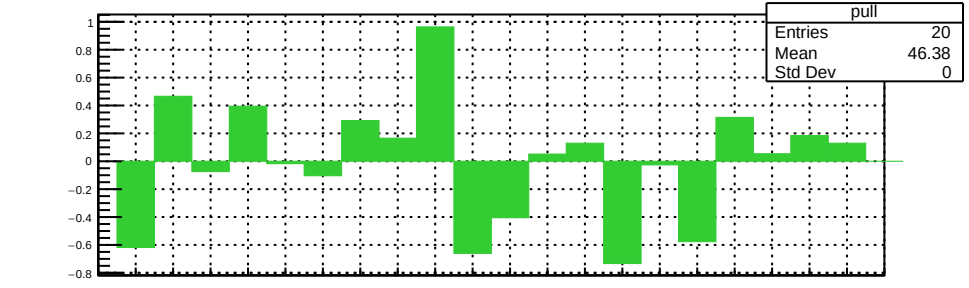

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 3.592 / 19
p0 −352.5 ± 9.287
−280
−300
−320
−340
−360
−380
−400
−420
−440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 49.34
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

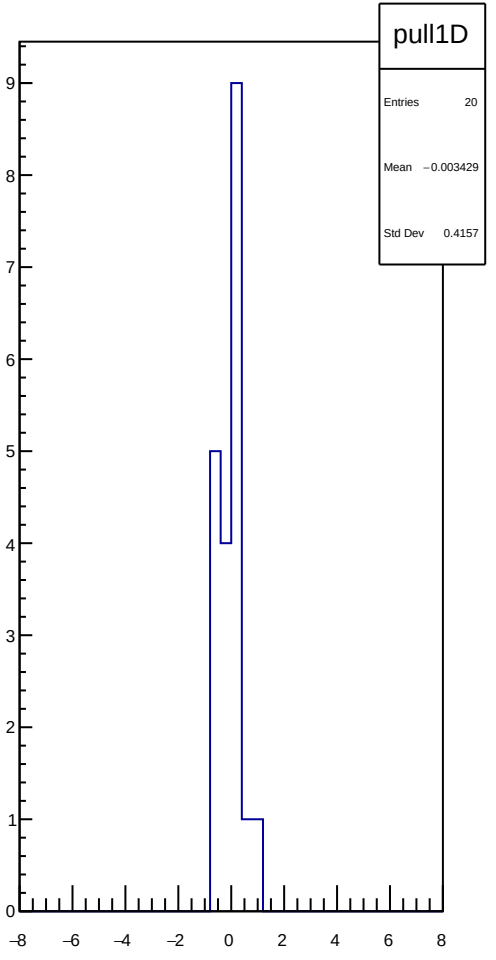

pull1D
Entries 20
Mean 0.003226
Std Dev 0.4238
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

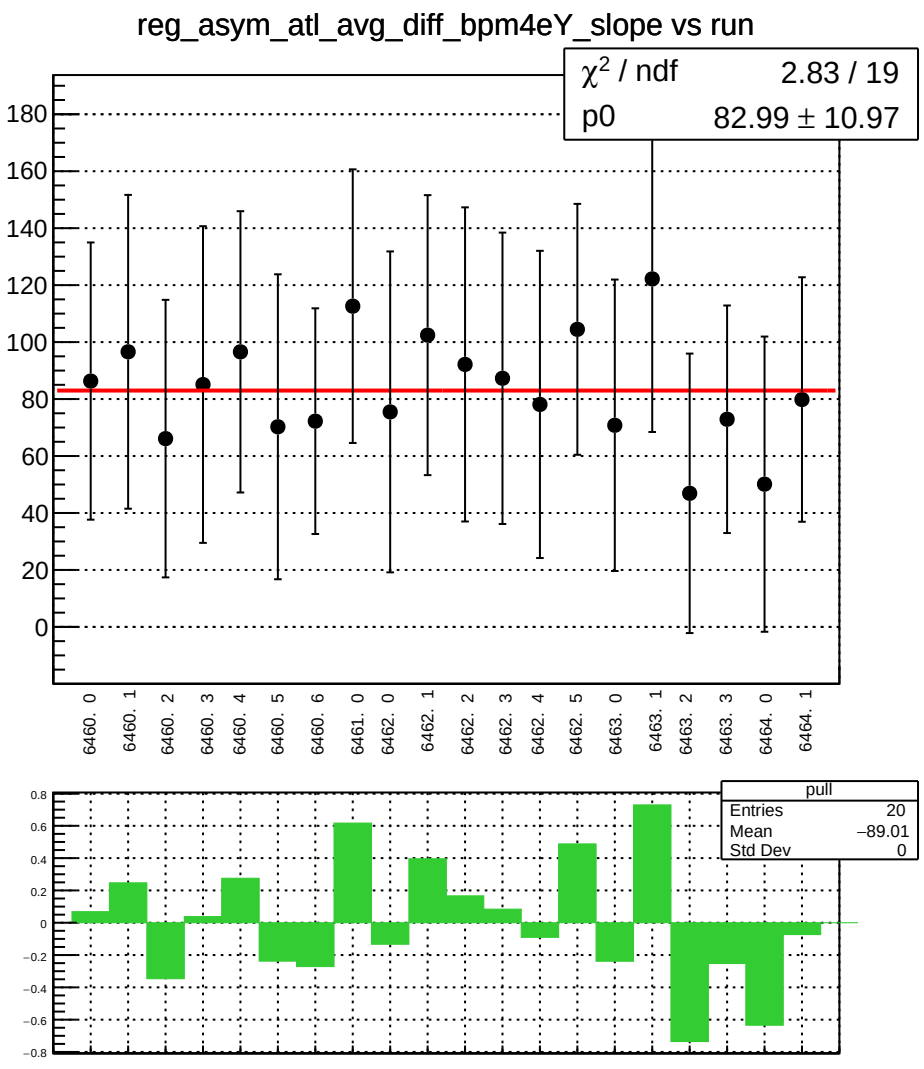

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.287 / 19
p0 17.15 ± 10.85
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −44.78
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

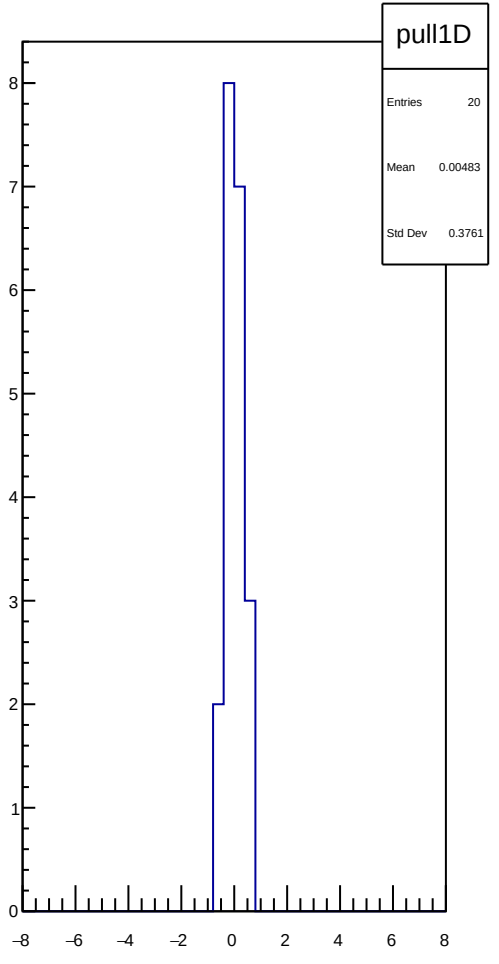

pull1D
Entries 20
Mean −0.005508
Std Dev 0.3381
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

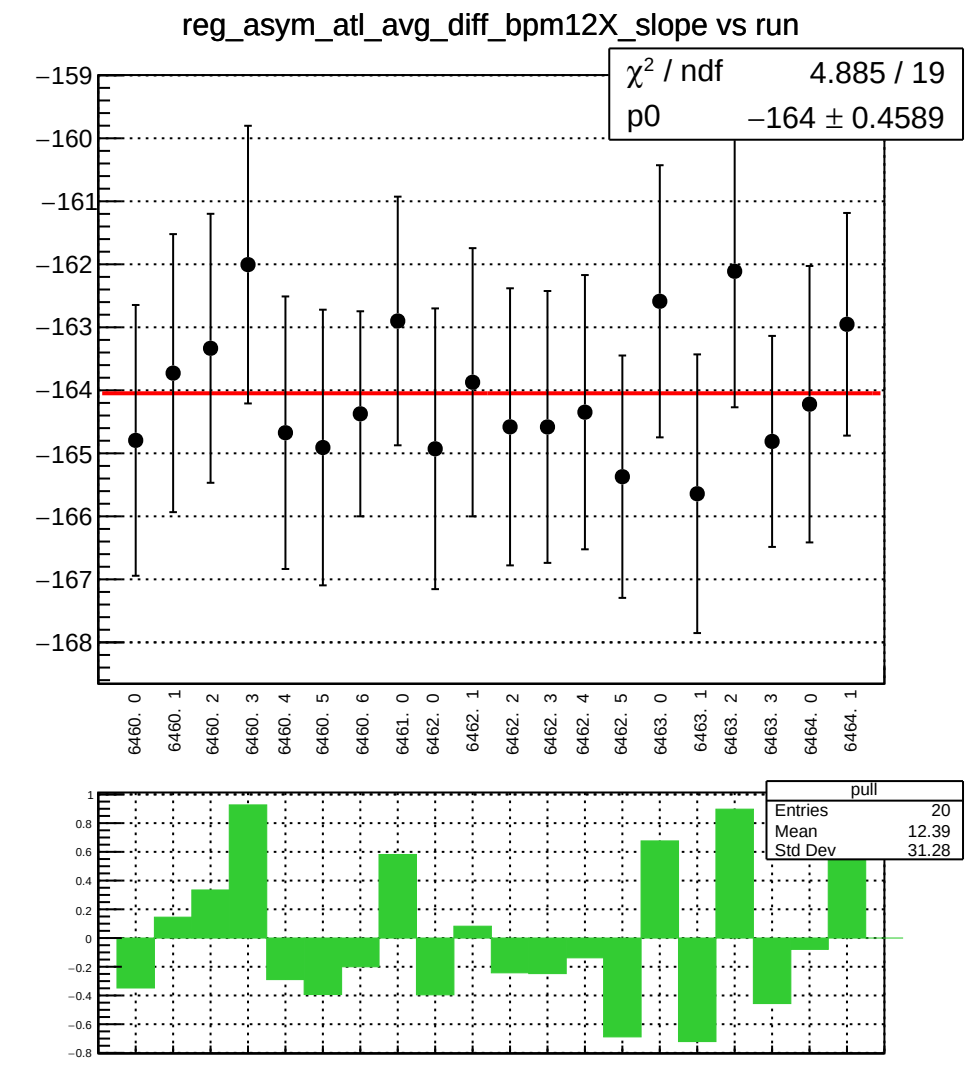

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.457 / 19
p0 375 ± 9.208
460
440
420
400
380
360
340
320
300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

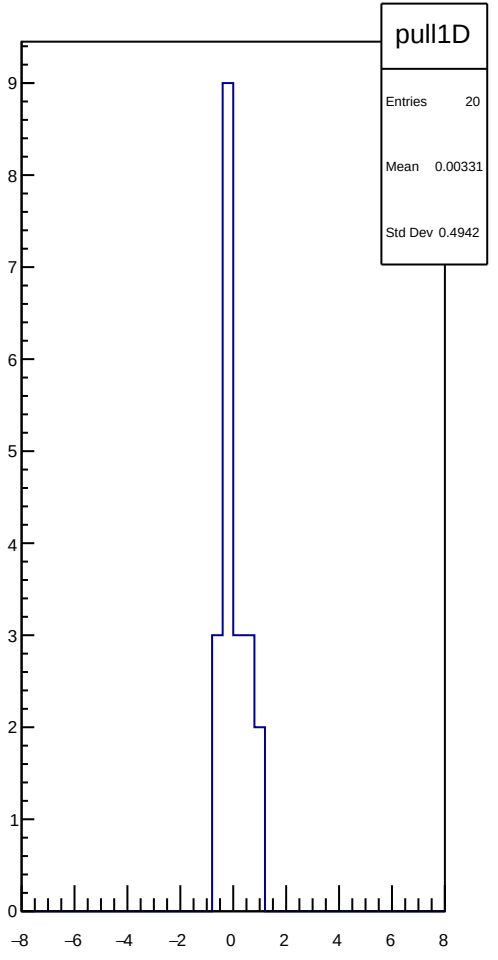

pull
Entries 20
Mean 46.38
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

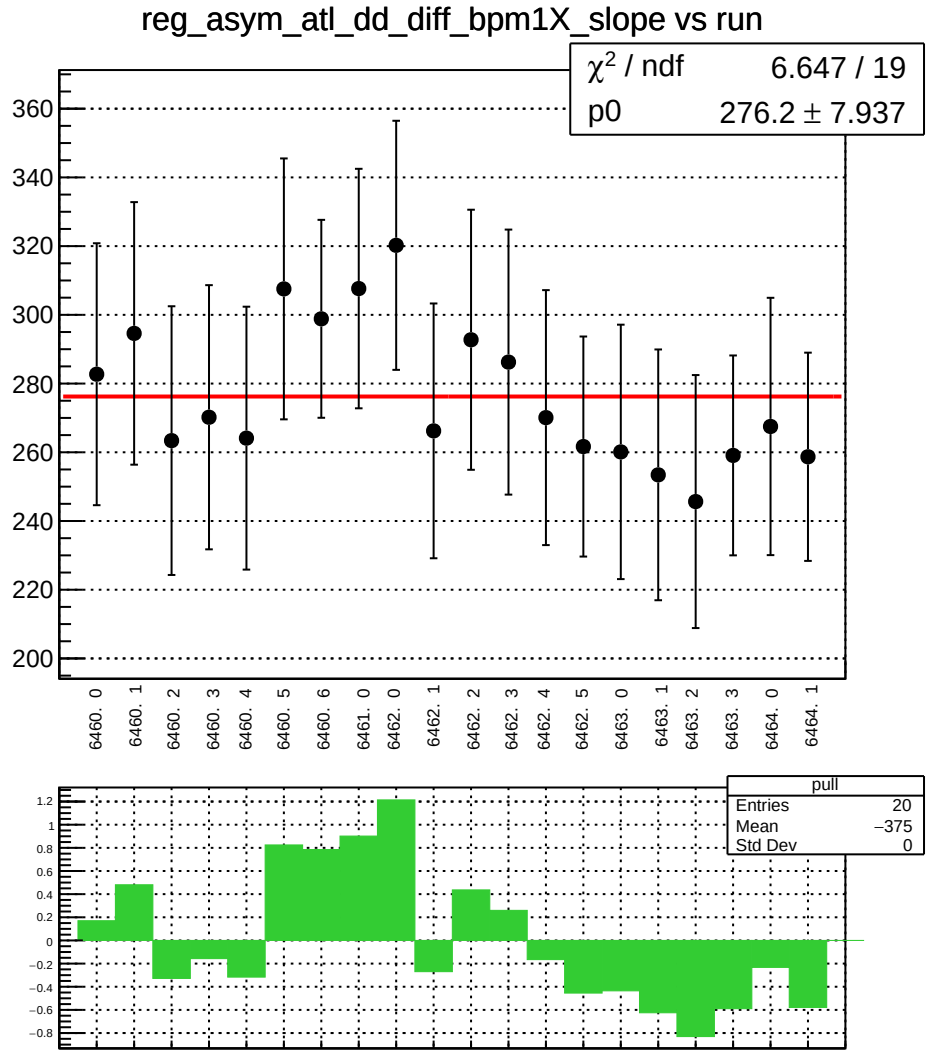

pull1D
Entries 20
Mean −0.003429
Std Dev 0.4157
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

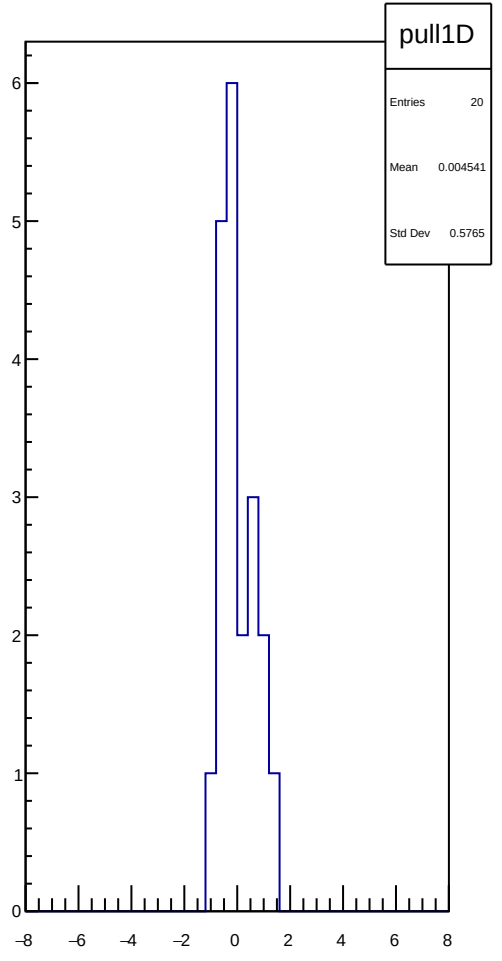

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.83 / 19
p0 82.99 ± 10.97
180
160
140
120
100
80
60
40
20
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −89.01
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

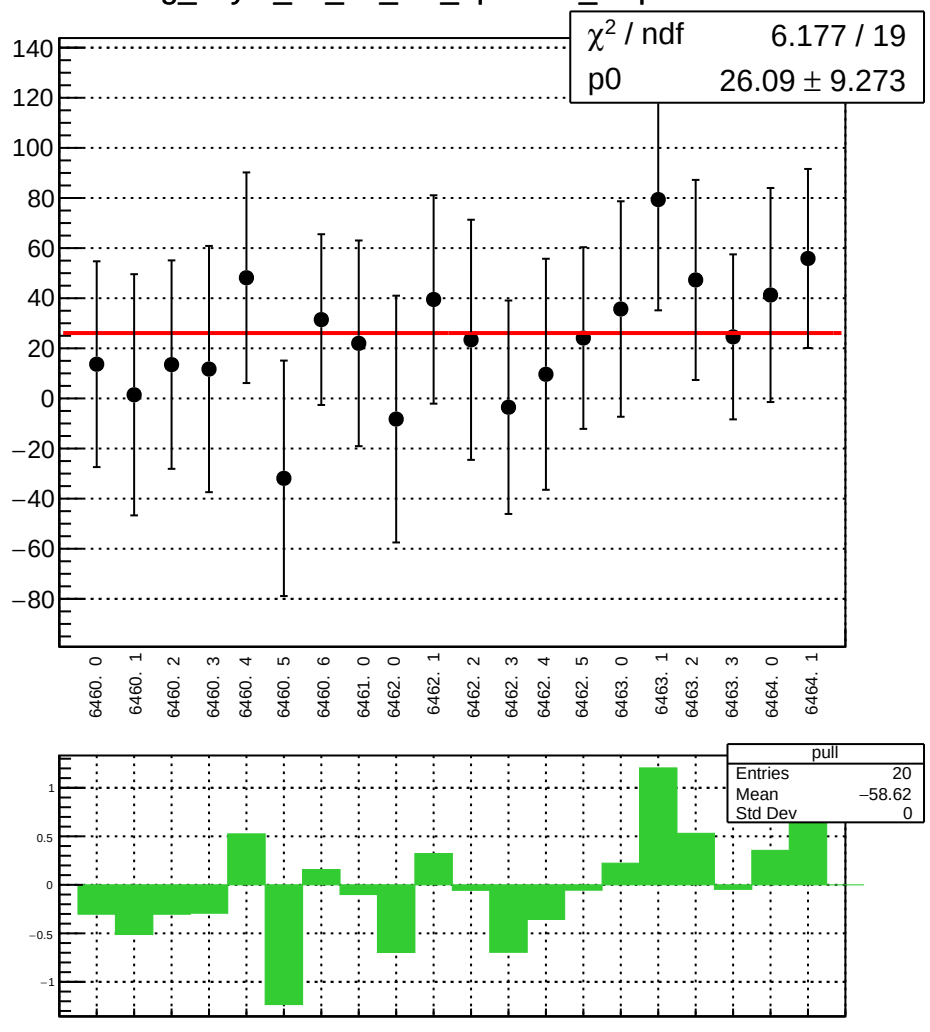

pull1D
Entries 20
Mean 0.00483
Std Dev 0.3761
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

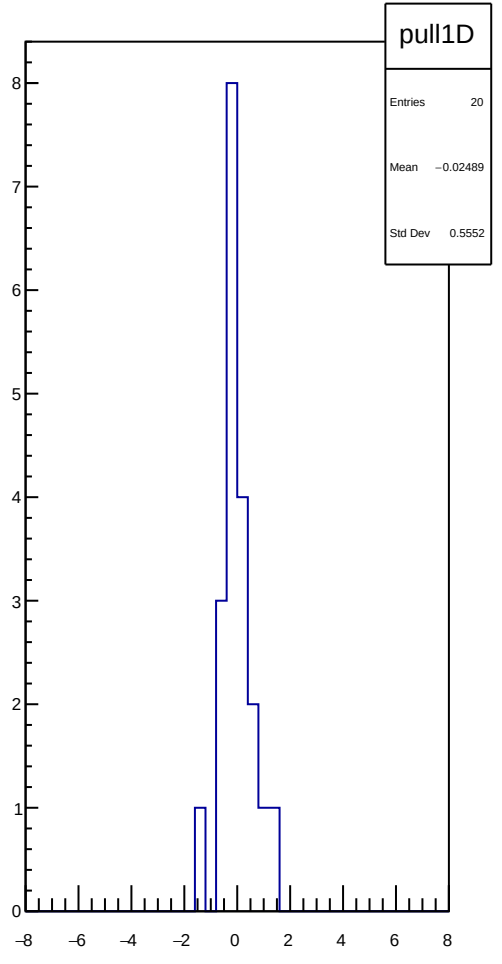

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 4.885 / 19
p0 −164 ± 0.4589
−159
−160
−161
−162
−163
−164
−165
−166
−167
−168
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.39
Std Dev 31.28
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

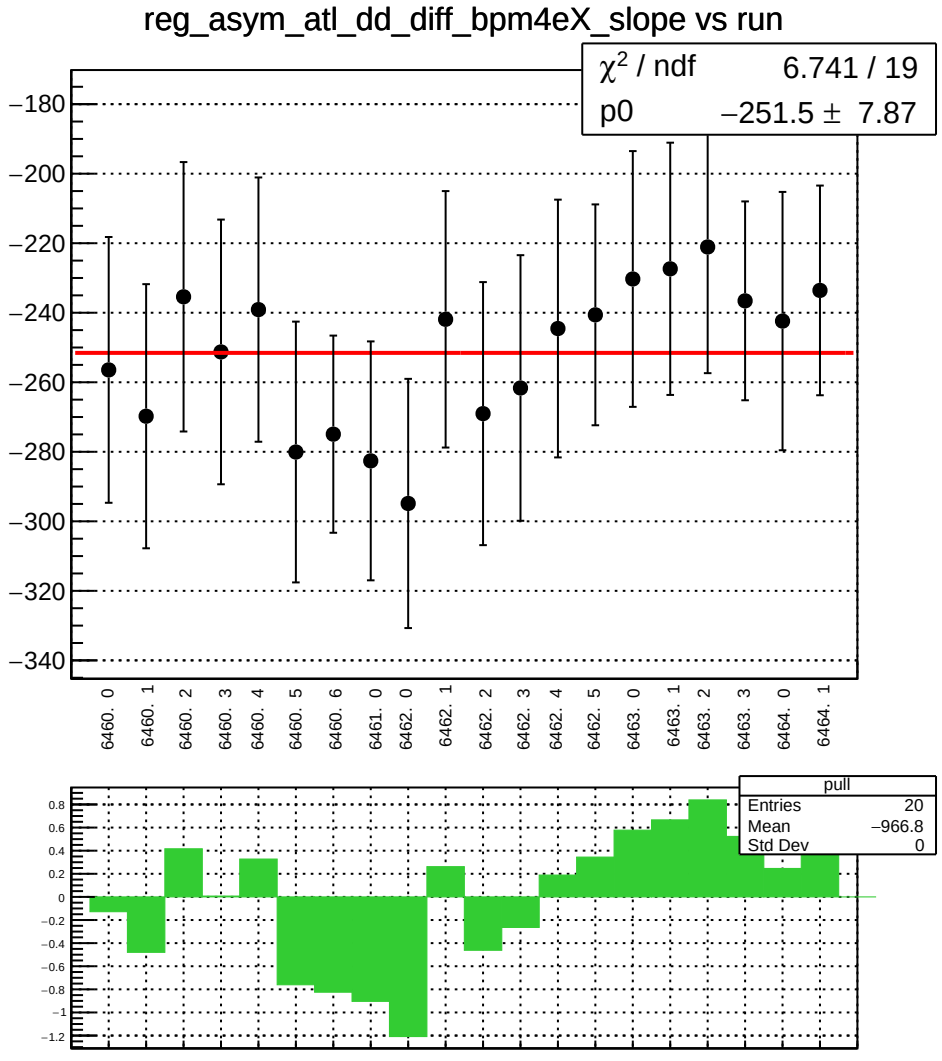

pull1D
Entries 20
Mean 0.00331
Std Dev 0.4942
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

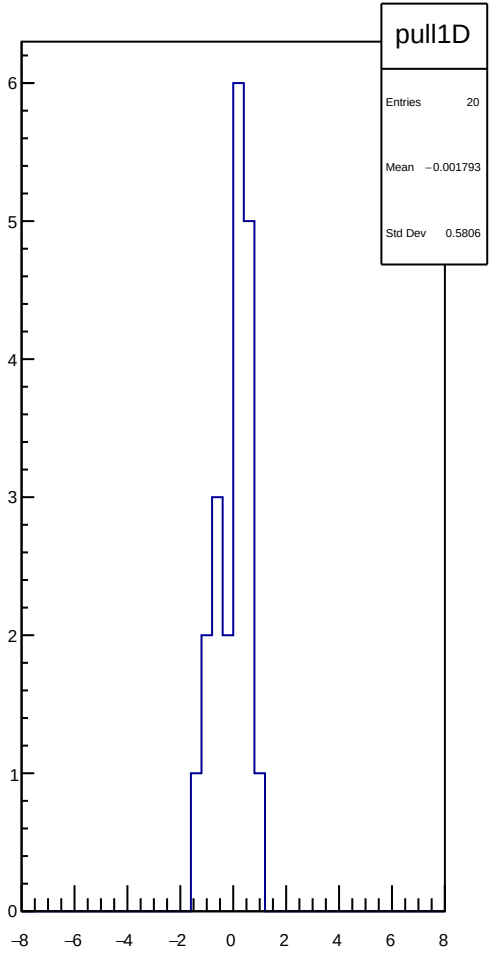

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 6.647 / 19
p0 276.2 ± 7.937
360
340
320
300
280
260
240
220
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −375
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

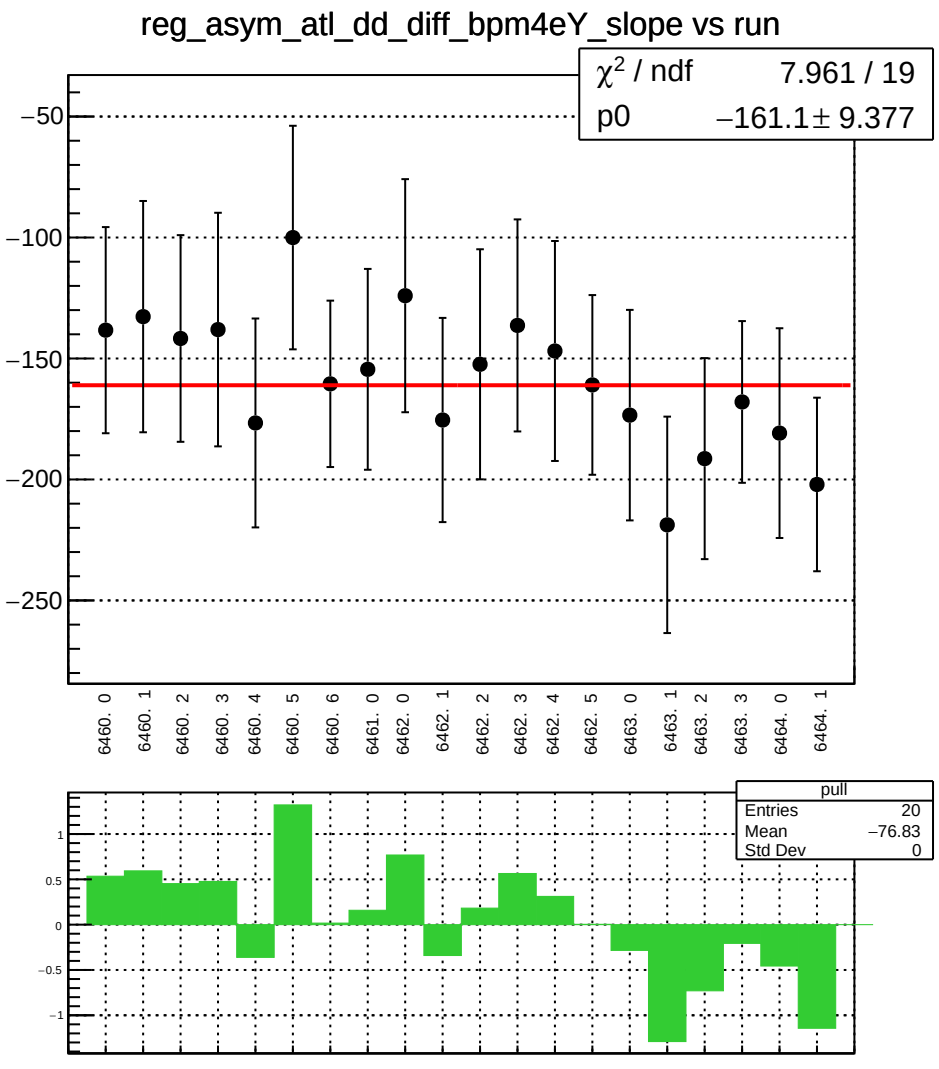

pull1D
Entries 20
Mean 0.004541
Std Dev 0.5765
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

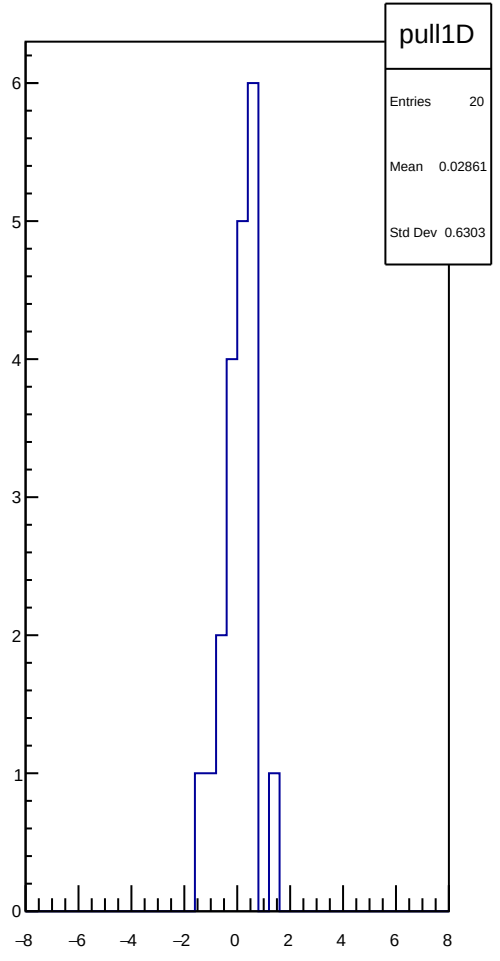

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.177 / 19
p0 26.09 ± 9.273
140
120
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.62
Std Dev 0
1
0.5
0
−0.5
−1

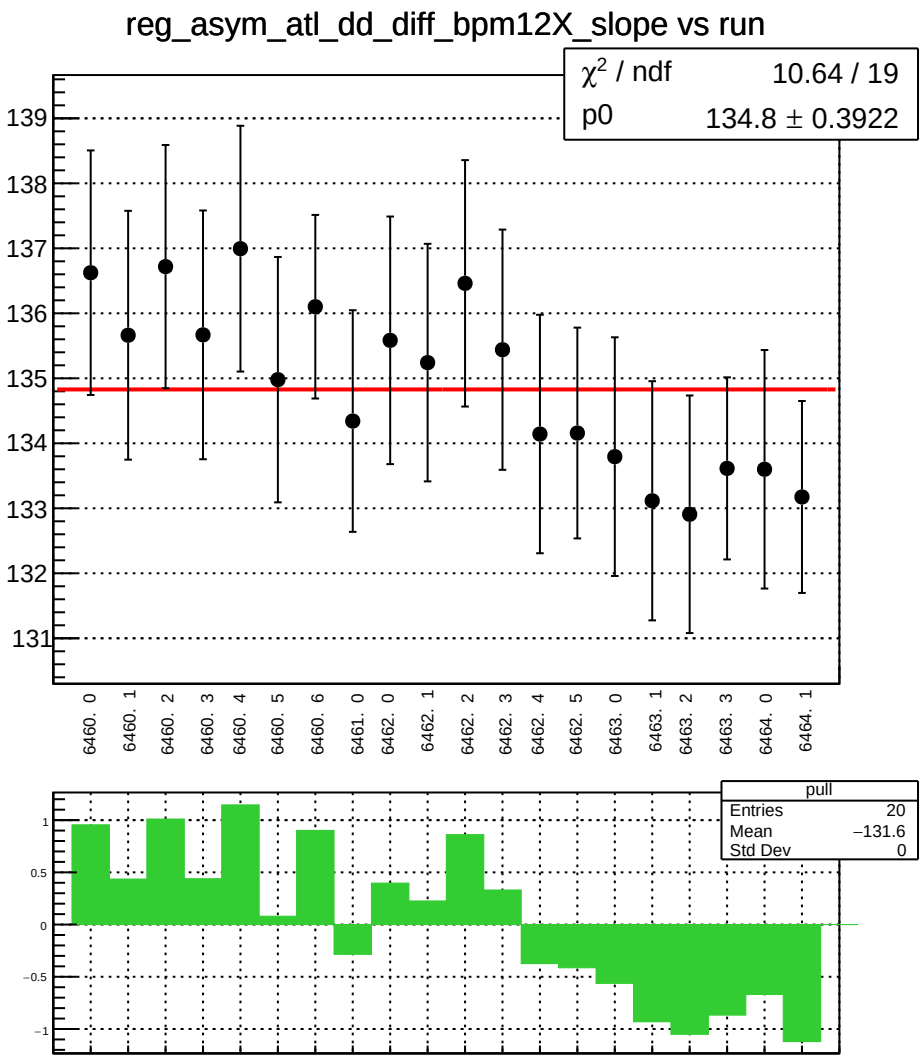

pull1D
Entries 20
Mean −0.02489
Std Dev 0.5552
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

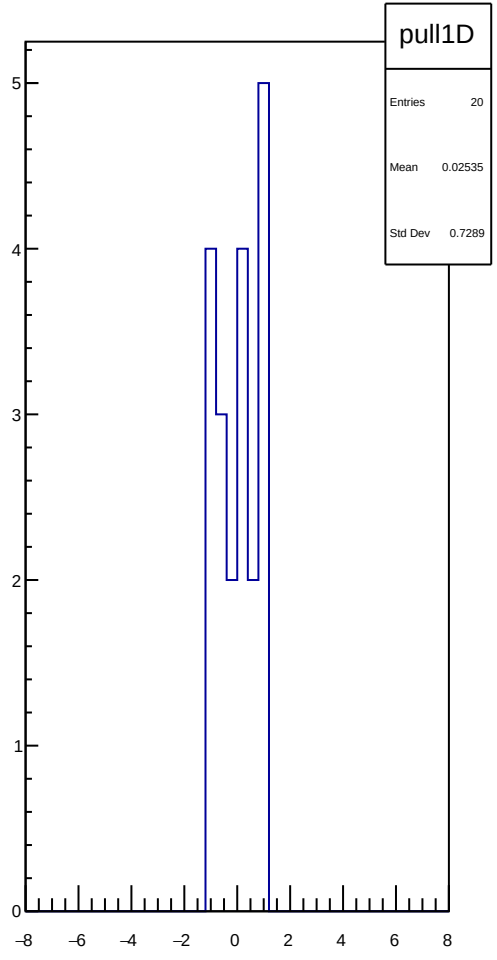

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.741 / 19
p0 −251.5 ± 7.87
−180
−200
−220
−240
−260
−280
−300
−320
−340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −966.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

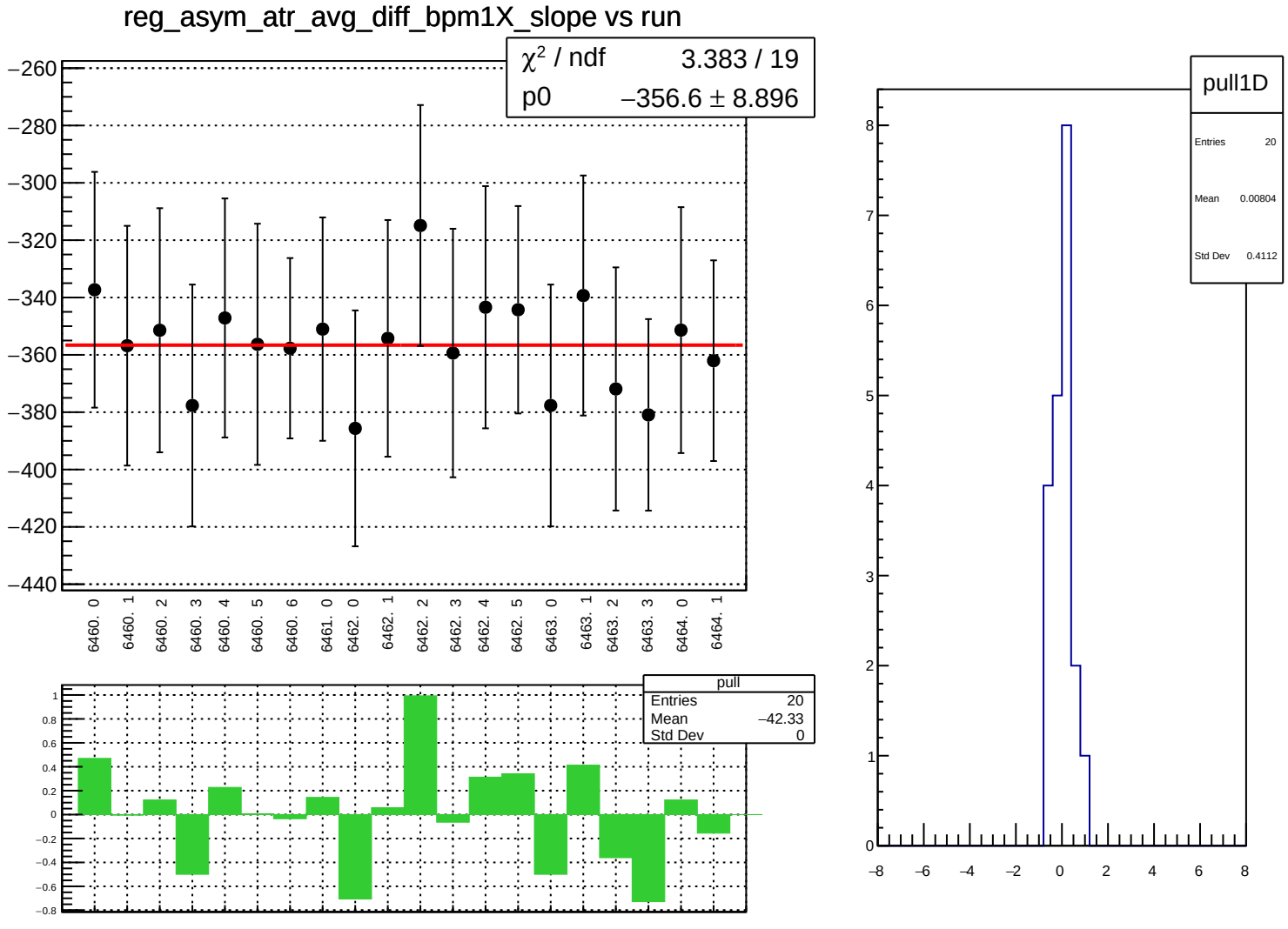

pull1D
Entries 20
Mean −0.001793
Std Dev 0.5806
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

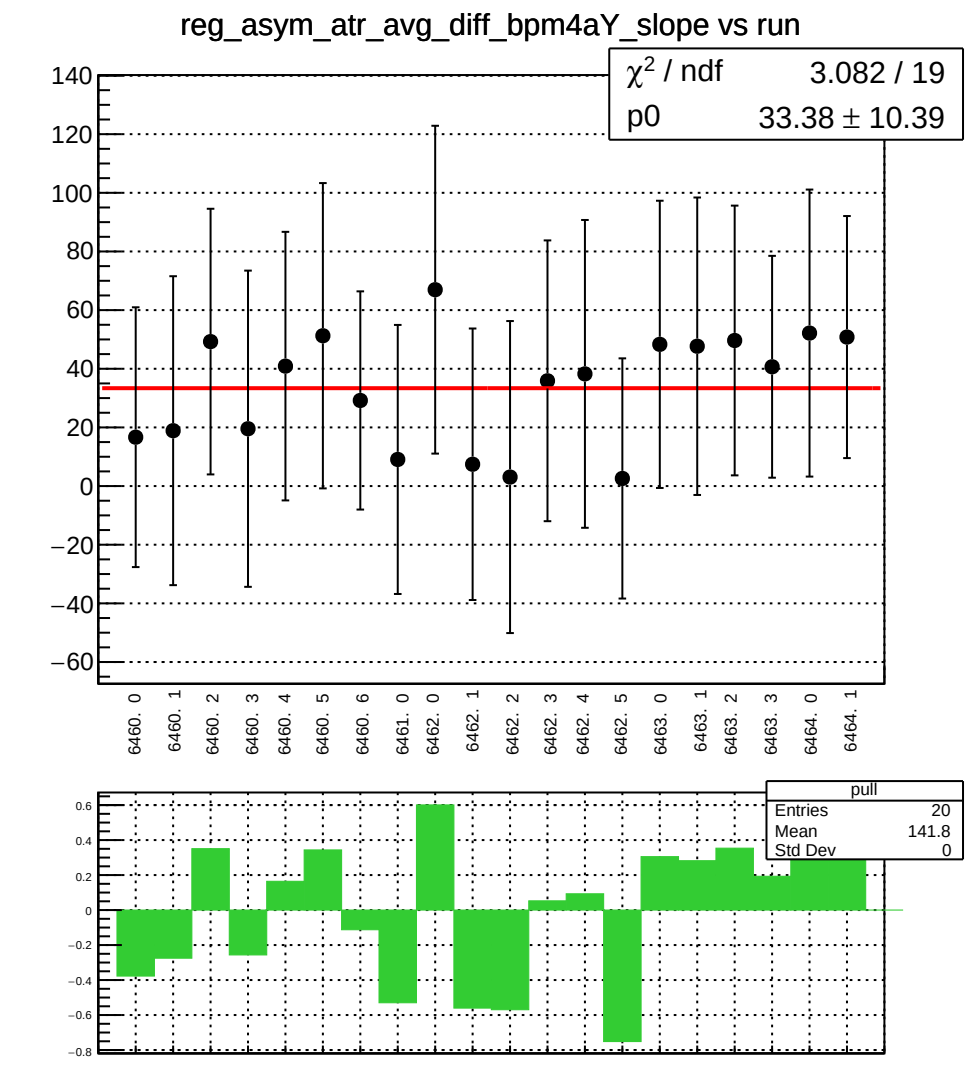

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.961 / 19
p0 −161.1± 9.377
−50
−100
−150
−200
−250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −76.83
Std Dev 0
1
0.5
0
−0.5
−1

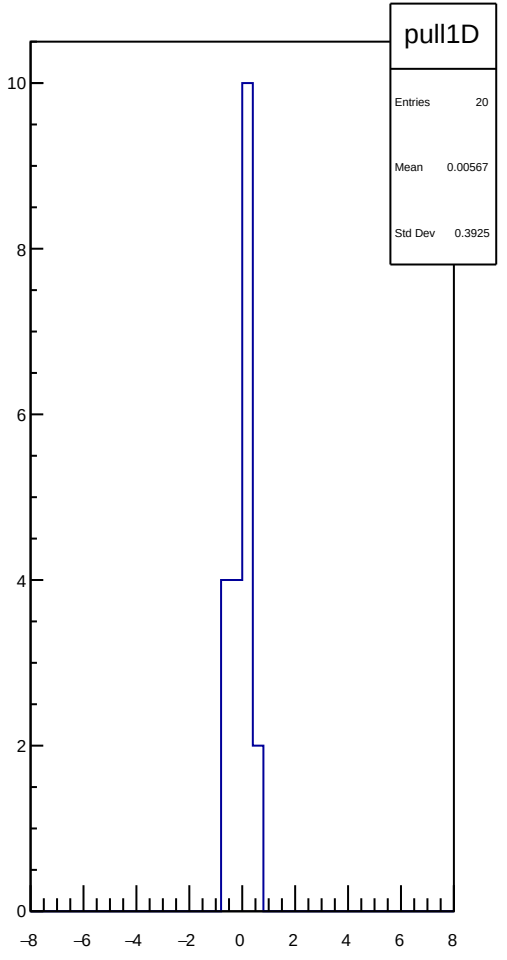

pull1D
Entries 20
Mean 0.02861
Std Dev 0.6303
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

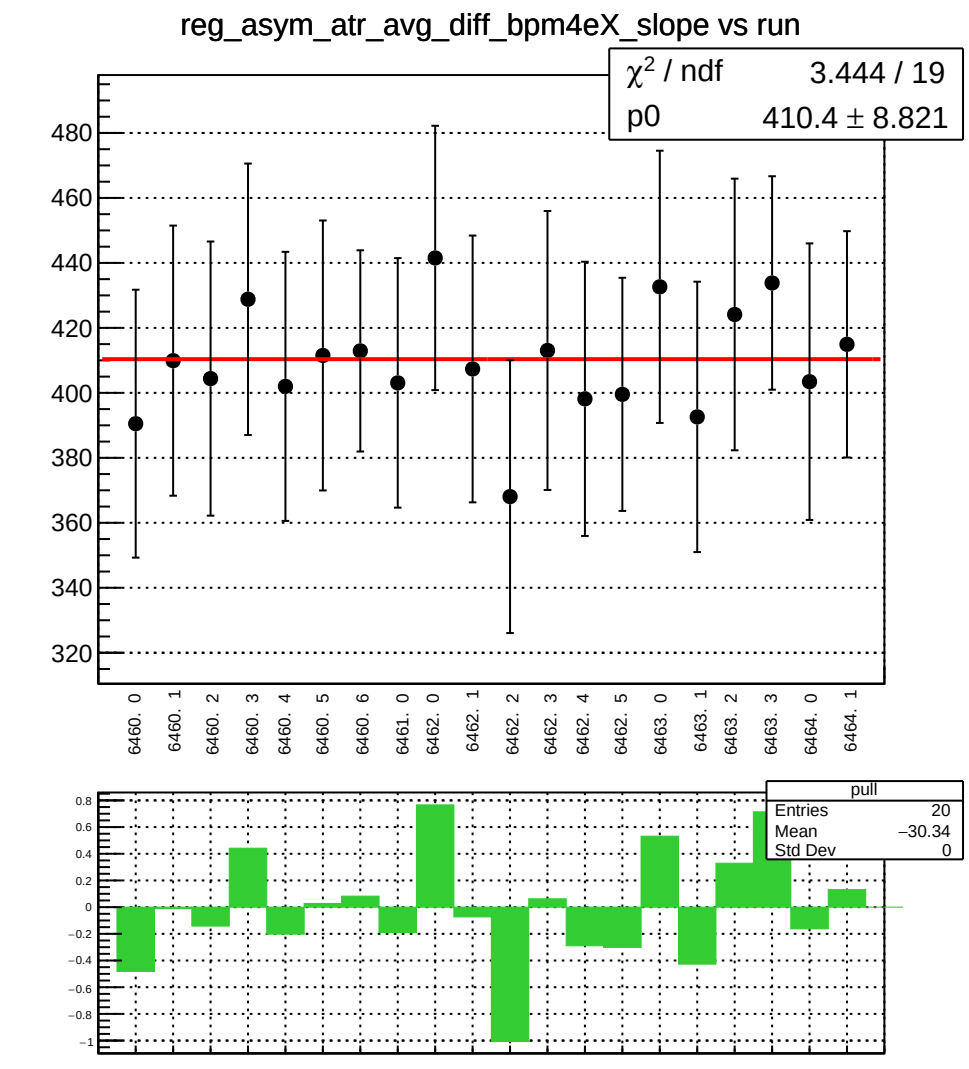

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 10.64 / 19
p0 134.8 ± 0.3922
pull
Entries 20
Mean −131.6
Std Dev 0

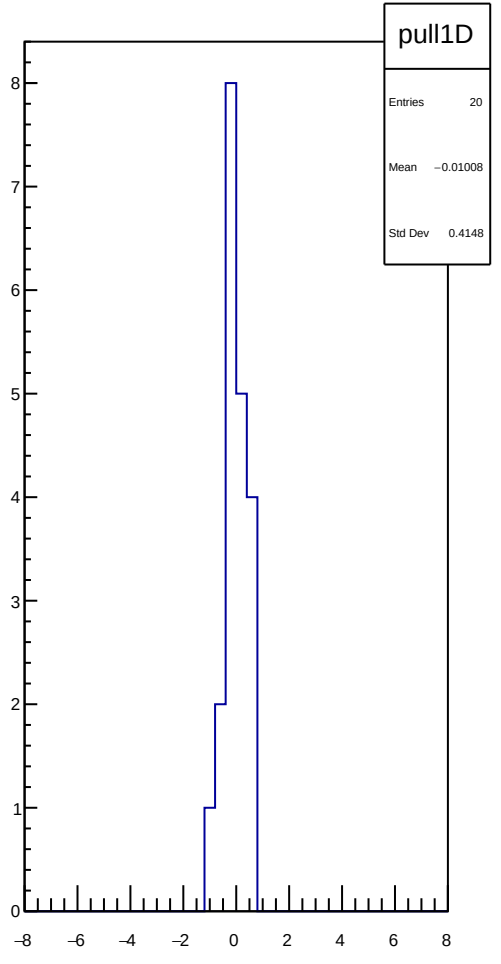

pull1D
Entries 20
Mean 0.02535
Std Dev 0.7289

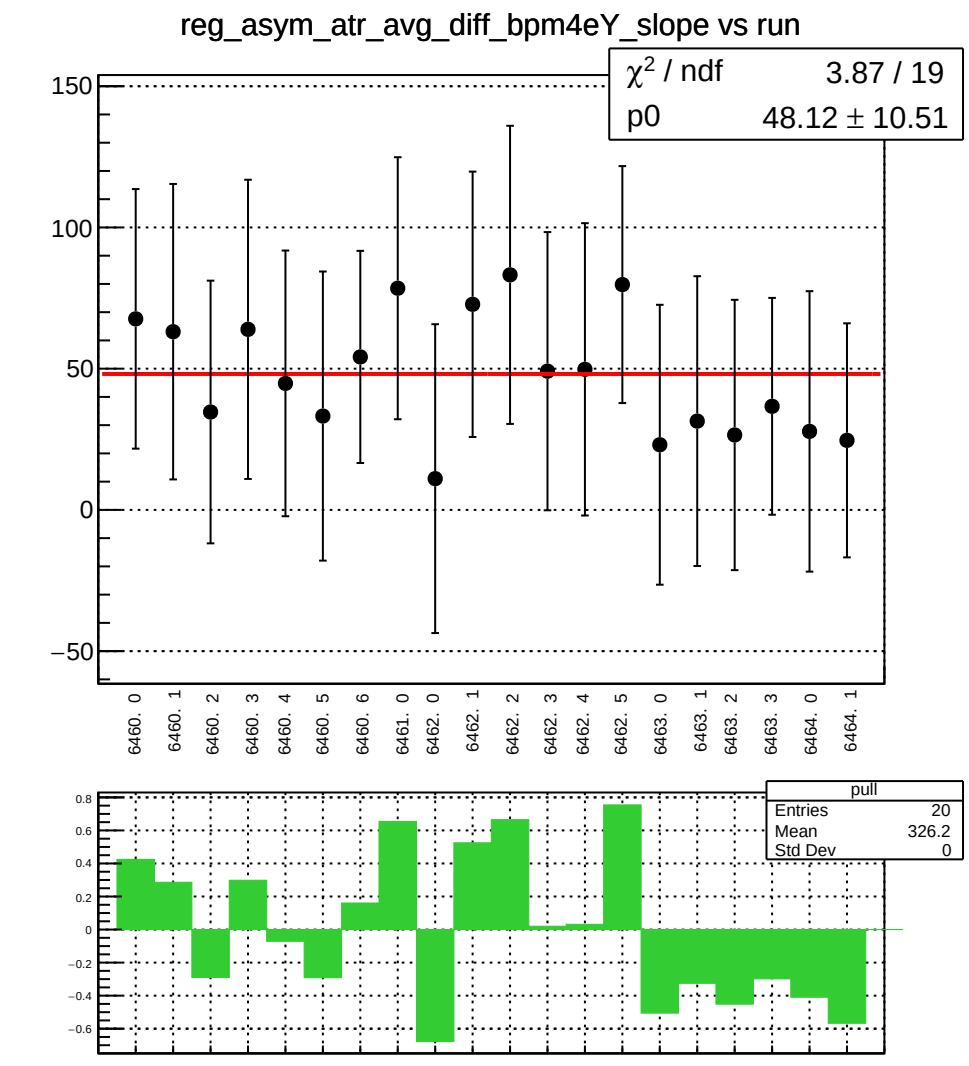

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 3.383 / 19
p0 −356.6 ± 8.896
−260
−280
−300
−320
−340
−360
−380
−400
−420
−440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −42.33
Std Dev 0
pull1D
Entries 20
Mean 0.00804
Std Dev 0.4112

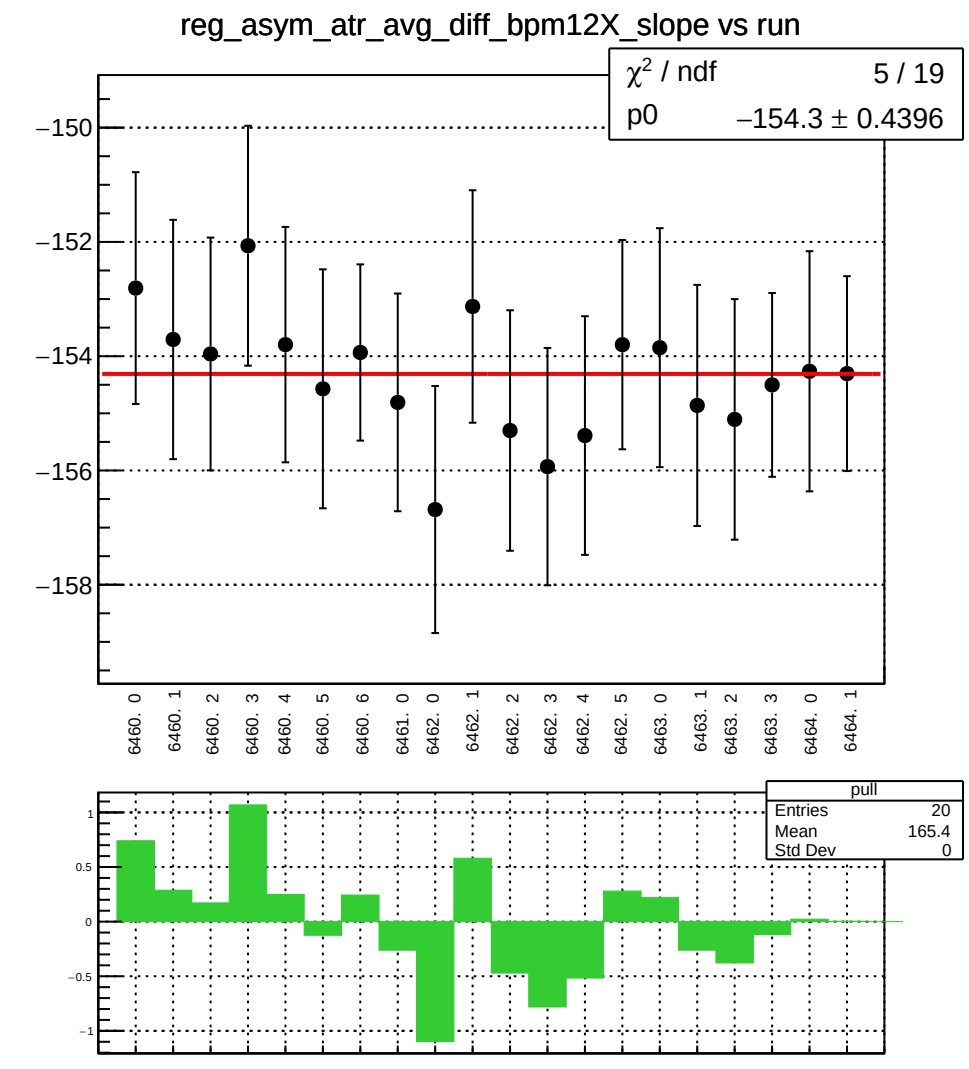

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.082 / 19
p0 33.38 ± 10.39
140
120
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 141.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

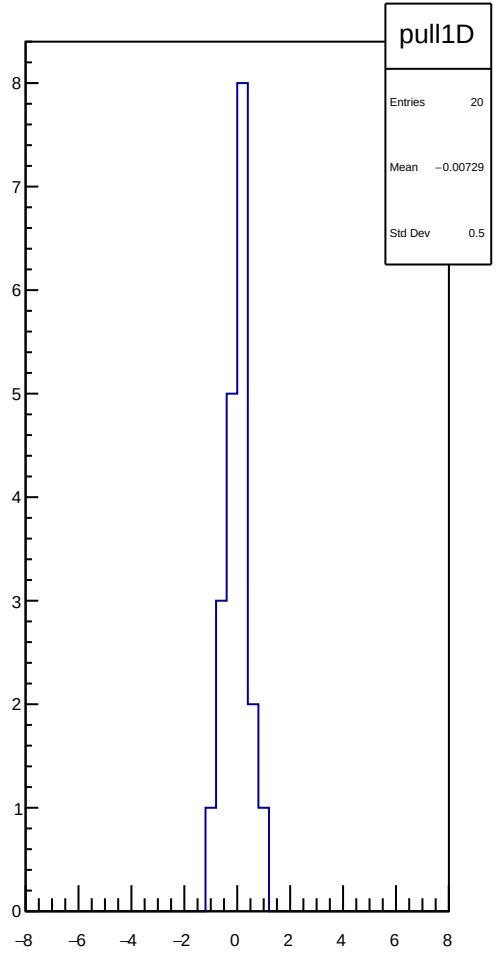

pull1D
Entries 20
Mean 0.00567
Std Dev 0.3925
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

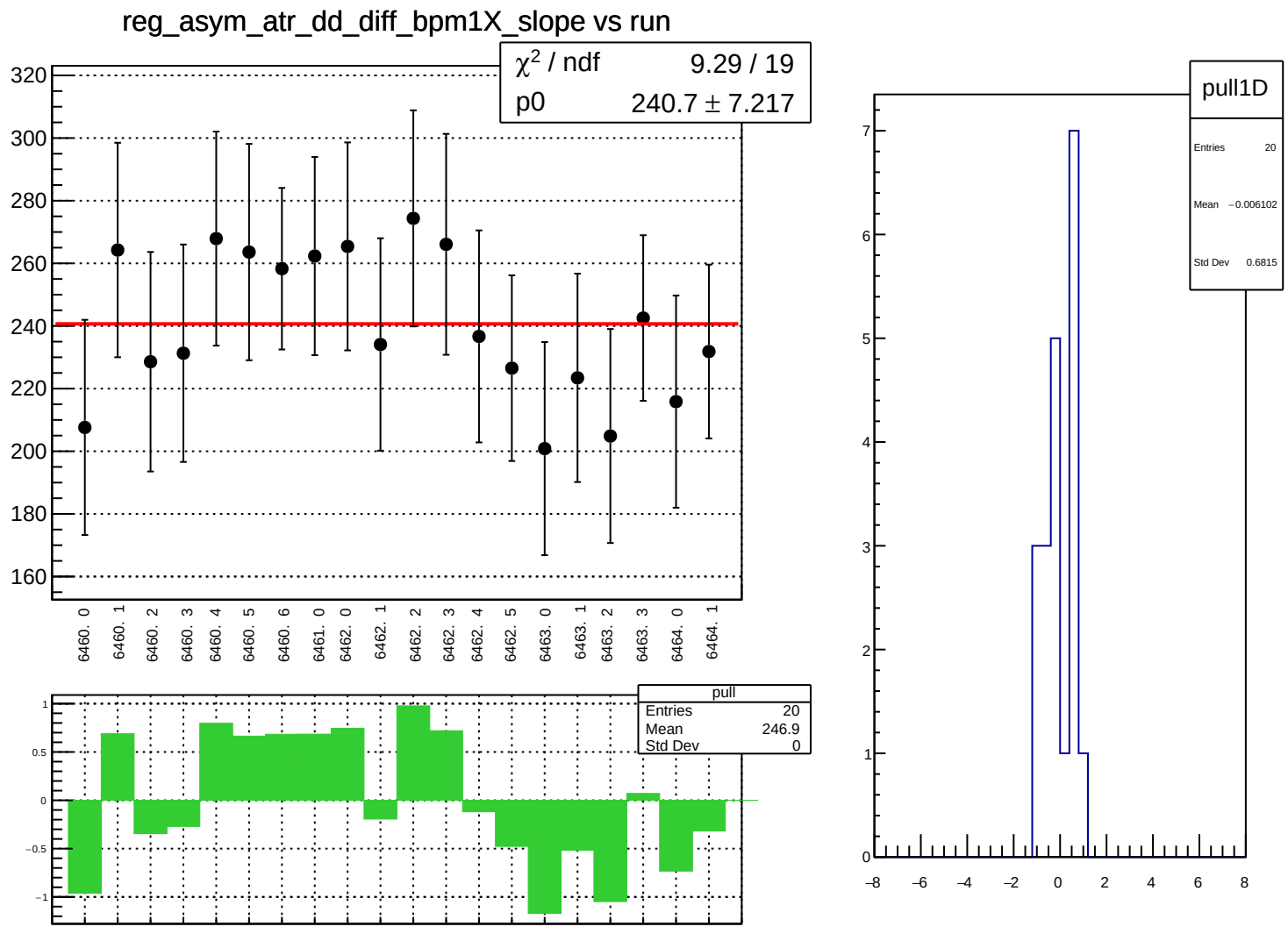

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.444 / 19
p0 410.4 ± 8.821
480
460
440
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −30.34
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

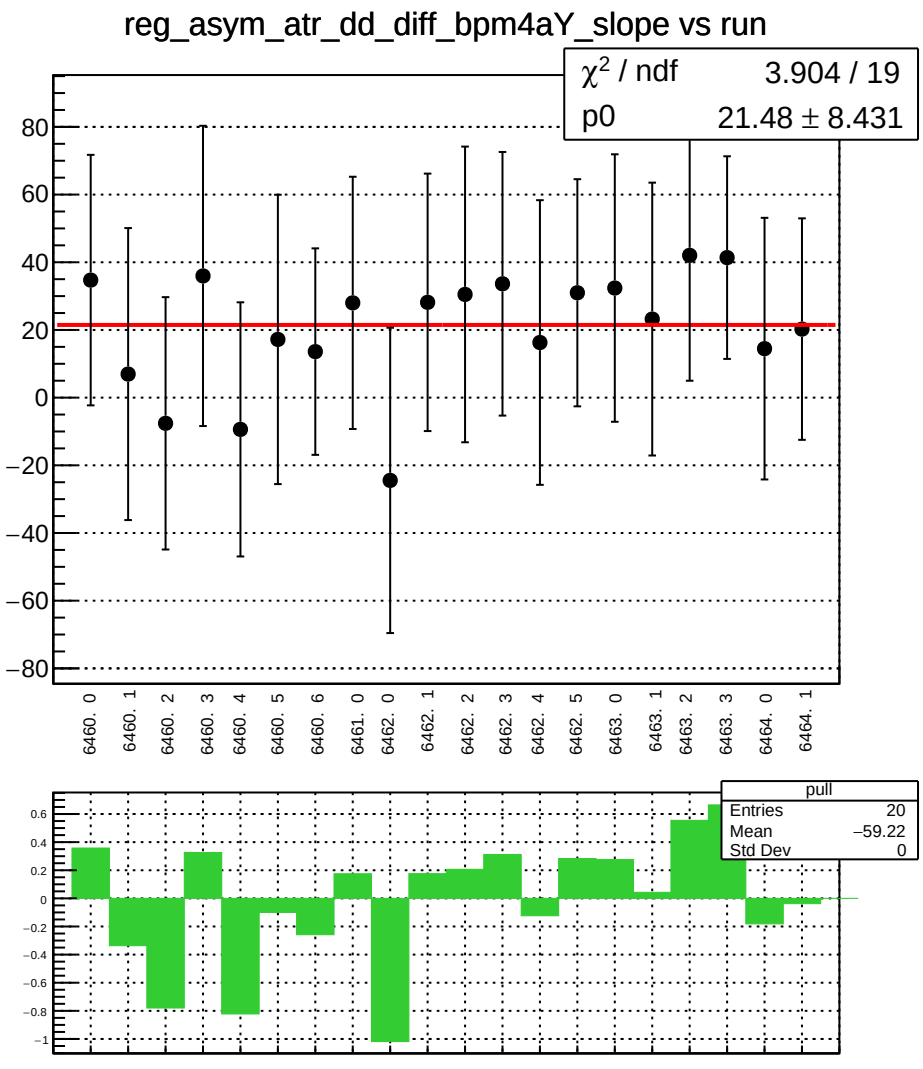

pull1D
Entries 20
Mean −0.01008
Std Dev 0.4148
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

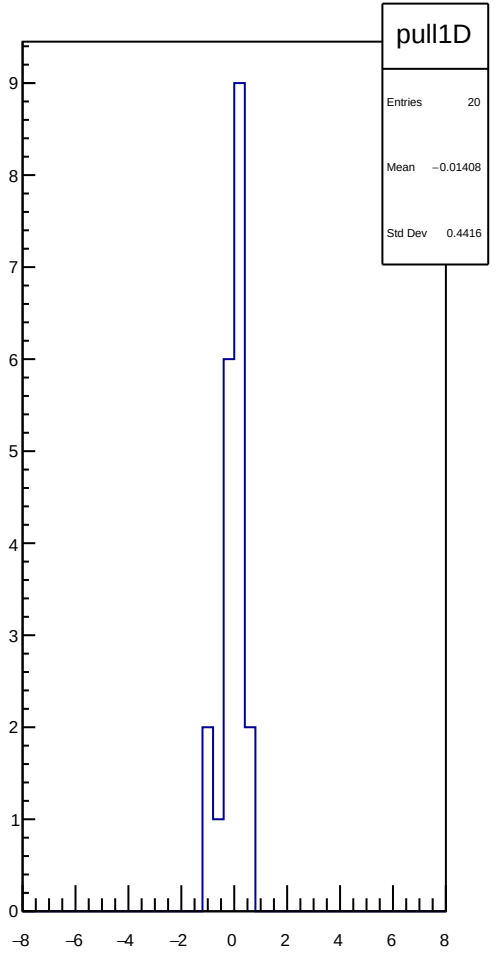

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.87 / 19
p0 48.12 ± 10.51
150
100
50
0
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 326.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.003321
Std Dev 0.4399
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

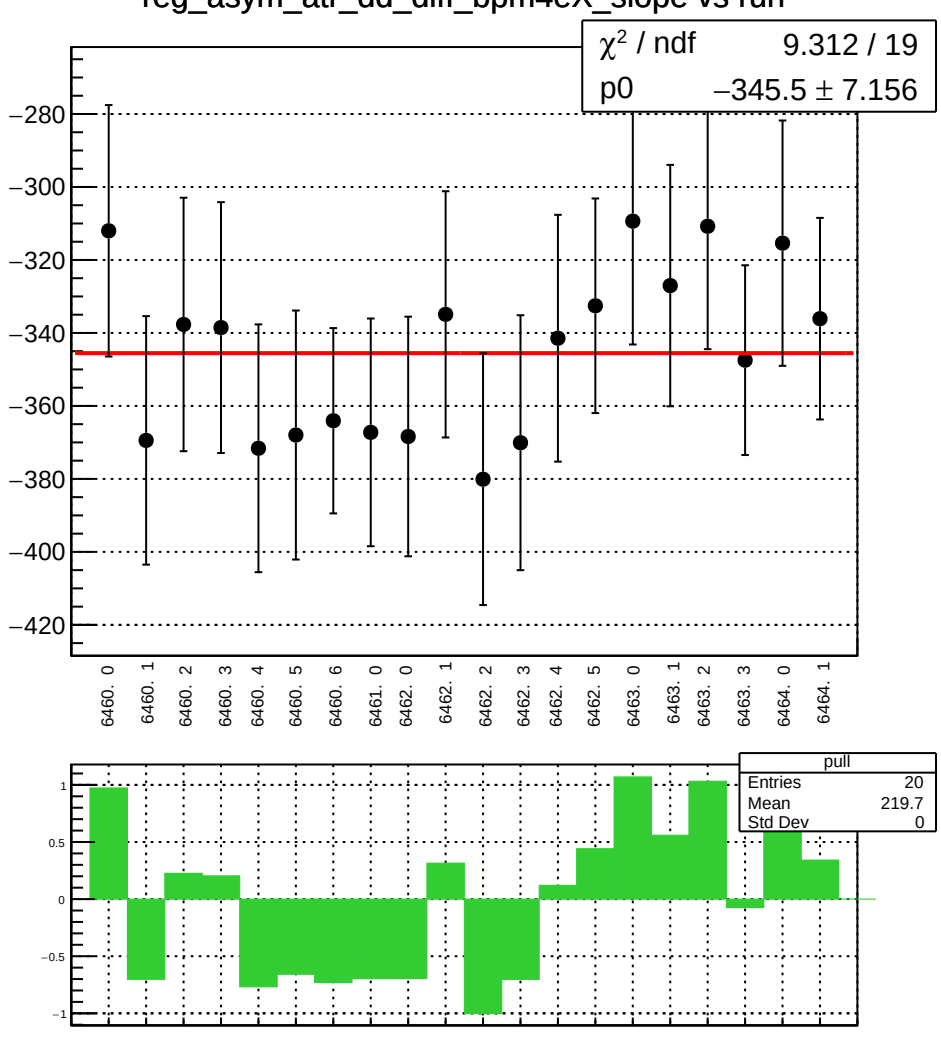

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 5 / 19
p0 −154.3 ± 0.4396
−150
−152
−154
−156
−158
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 165.4
Std Dev 0
1
0.5
0
−0.5
−1

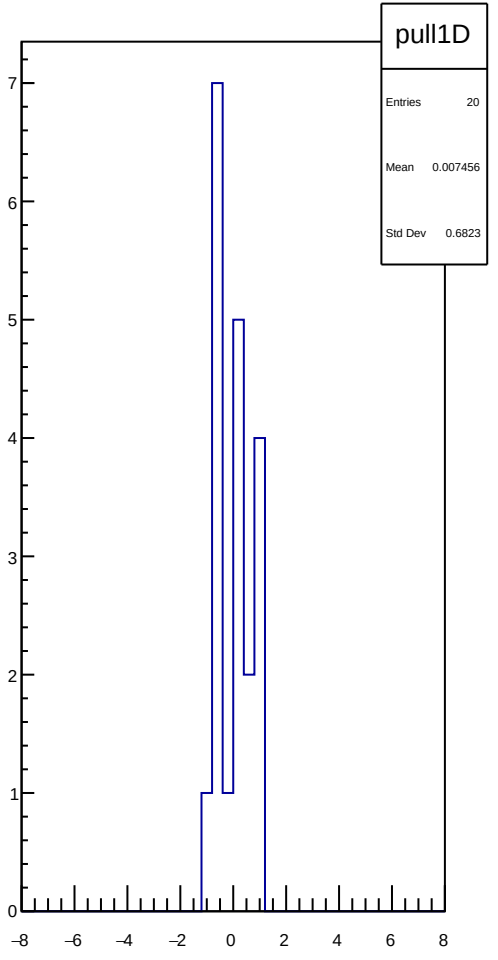

pull1D
Entries 20
Mean −0.00729
Std Dev 0.5
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

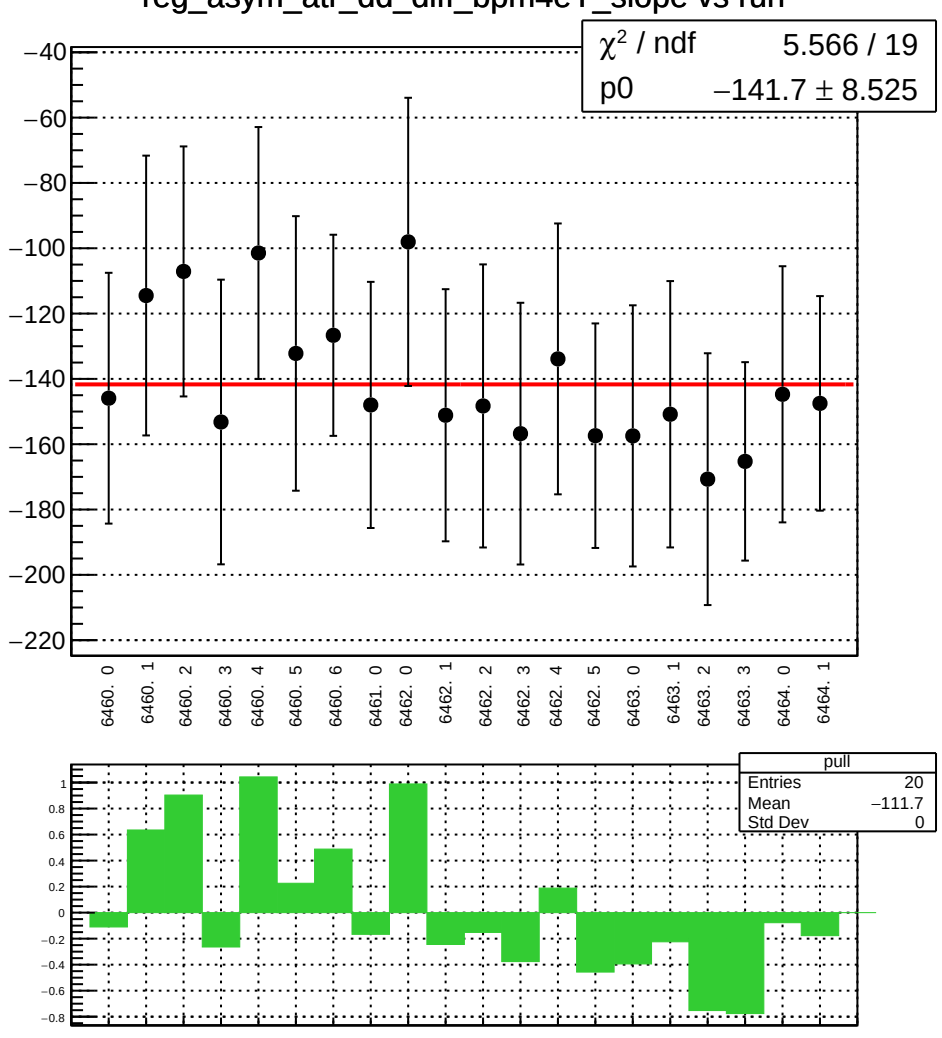

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 9.29 / 19
p0 240.7 ± 7.217
320
300
280
260
240
220
200
180
160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 246.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.006102
Std Dev 0.6815
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

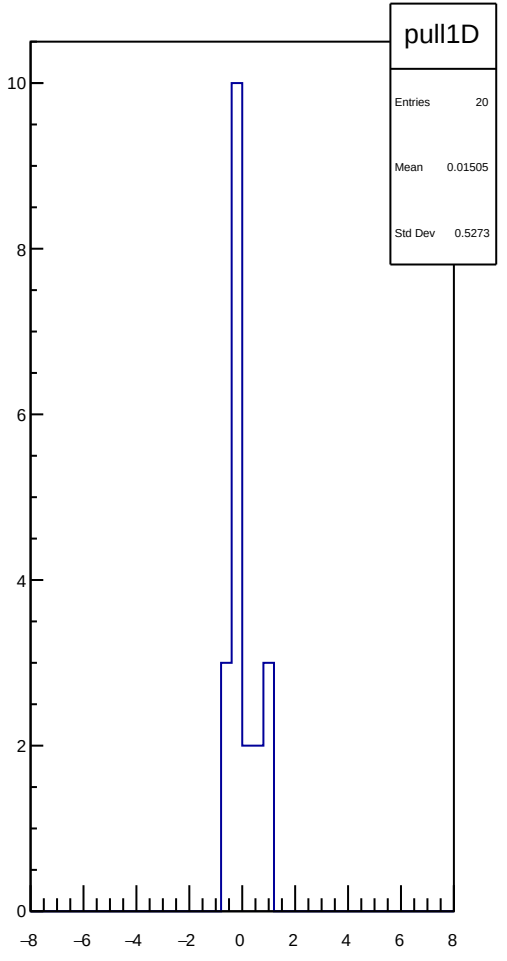

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.904 / 19
p0 21.48 ± 8.431
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −59.22
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

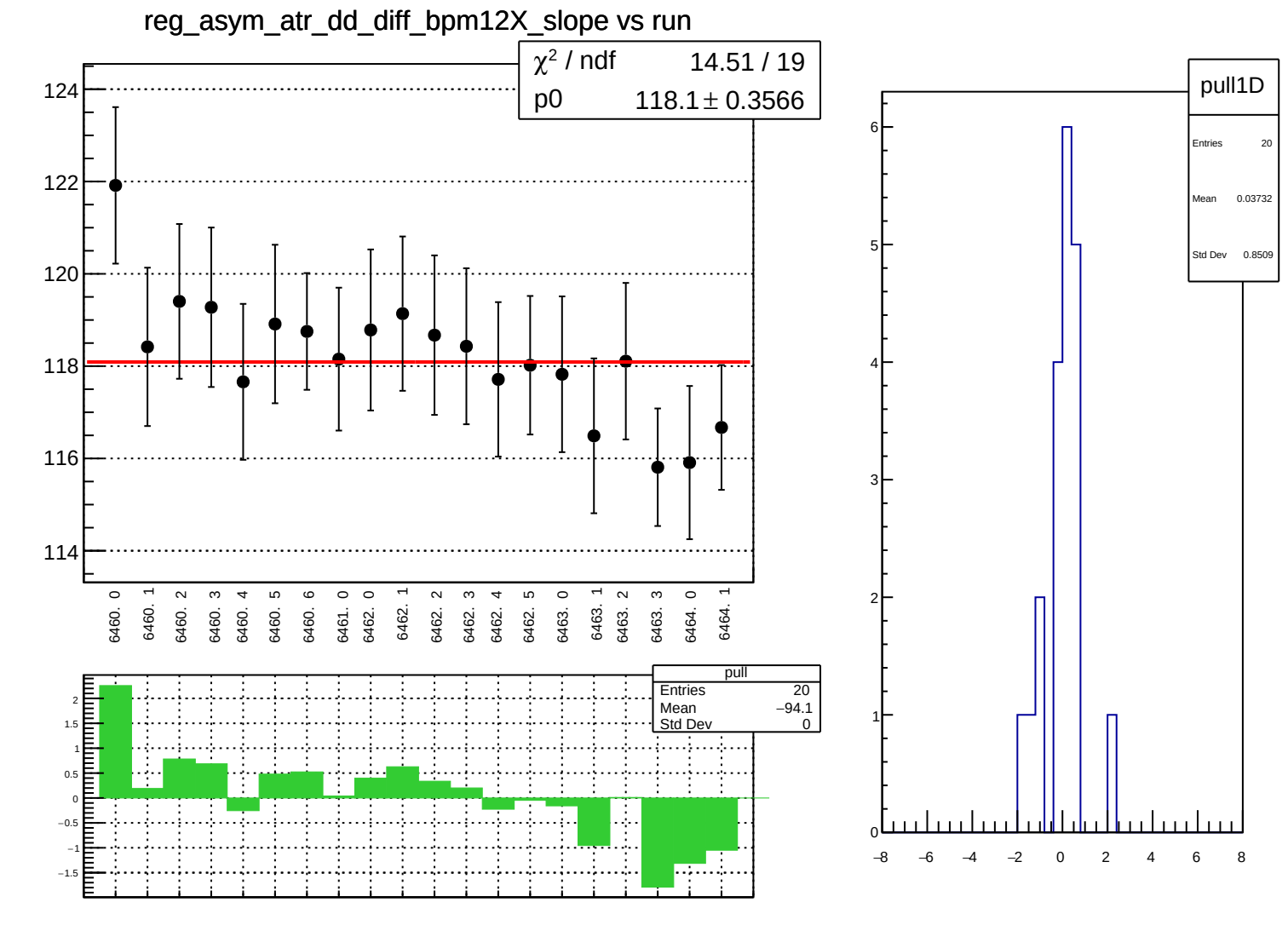

pull1D
Entries 20
Mean −0.01408
Std Dev 0.4416
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

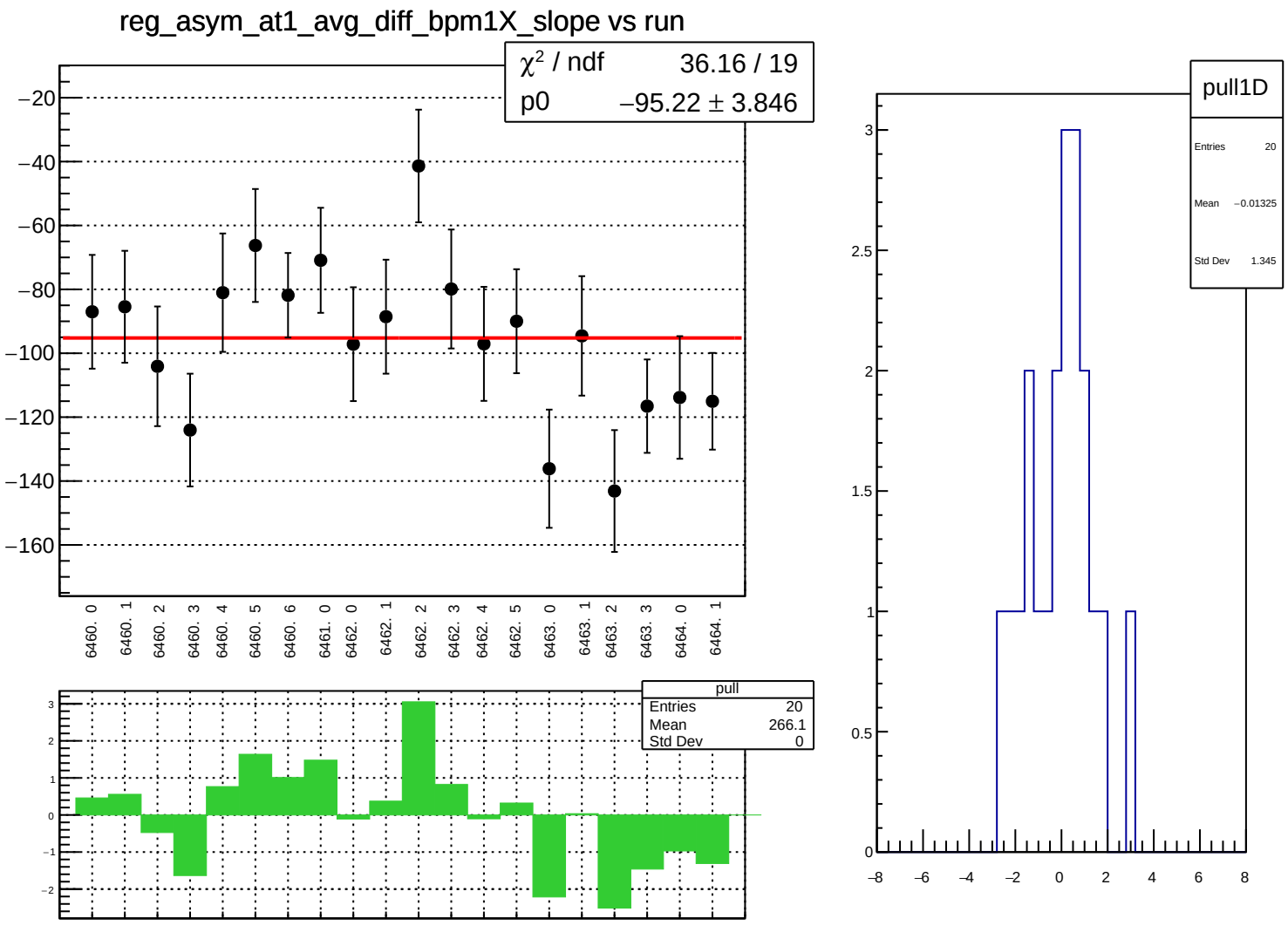

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.312 / 19
p0 −345.5 ± 7.156
−280
−300
−320
−340
−360
−380
−400
−420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 219.7
Std Dev 0
1
0.5
0
−0.5
−1

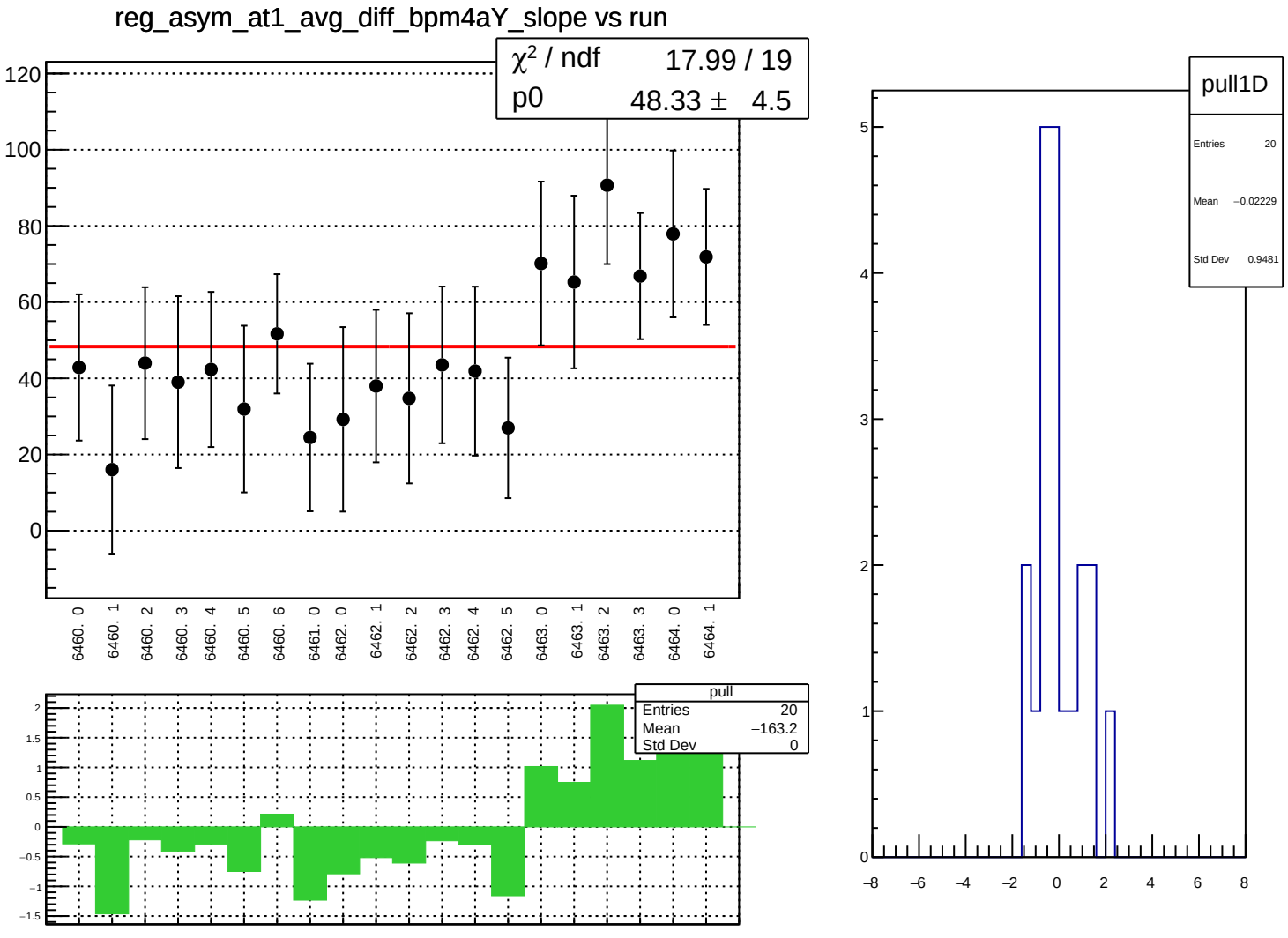

pull1D
Entries 20
Mean 0.007456
Std Dev 0.6823
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

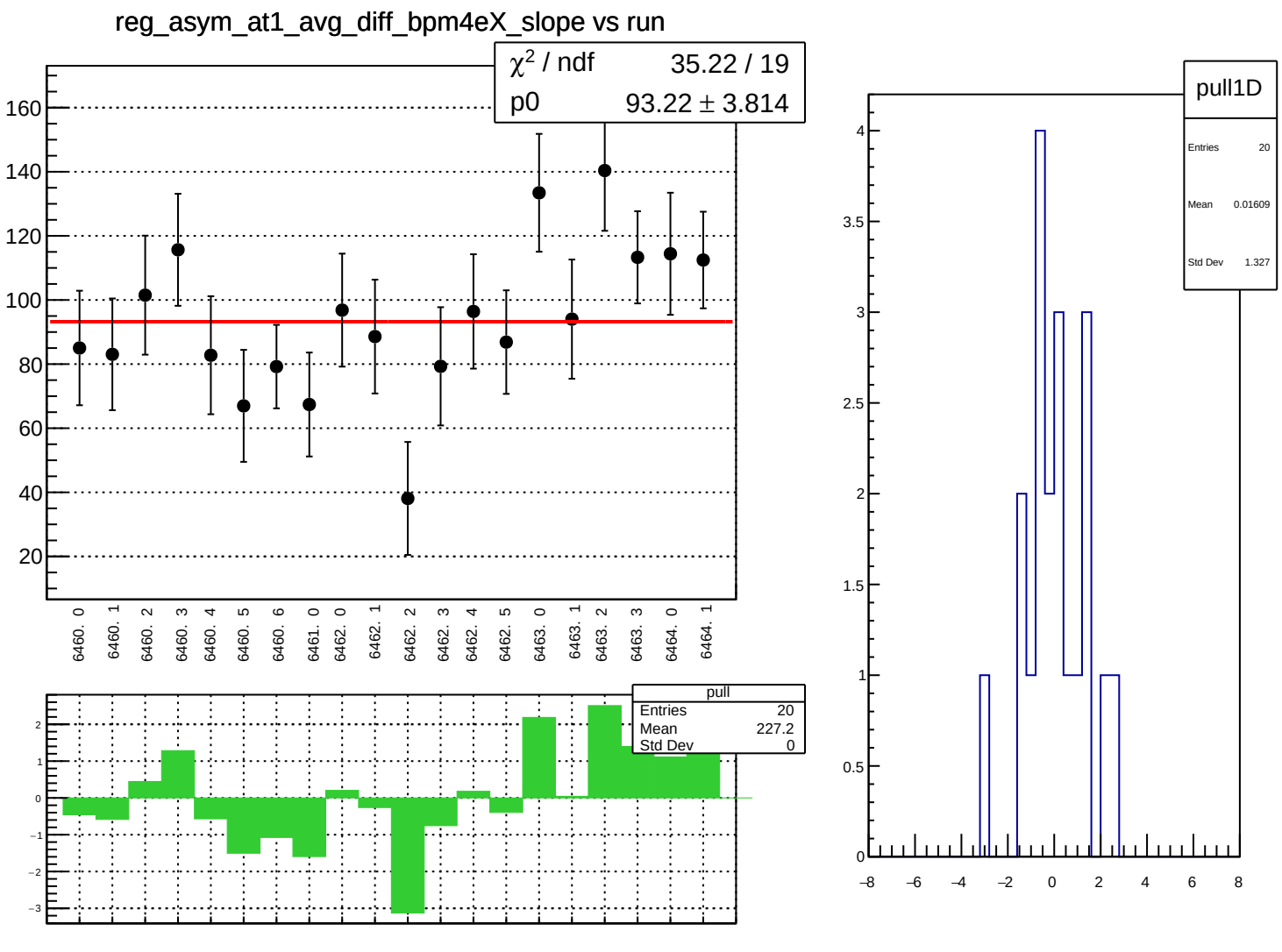

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.566 / 19
p0 −141.7 ± 8.525
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −111.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

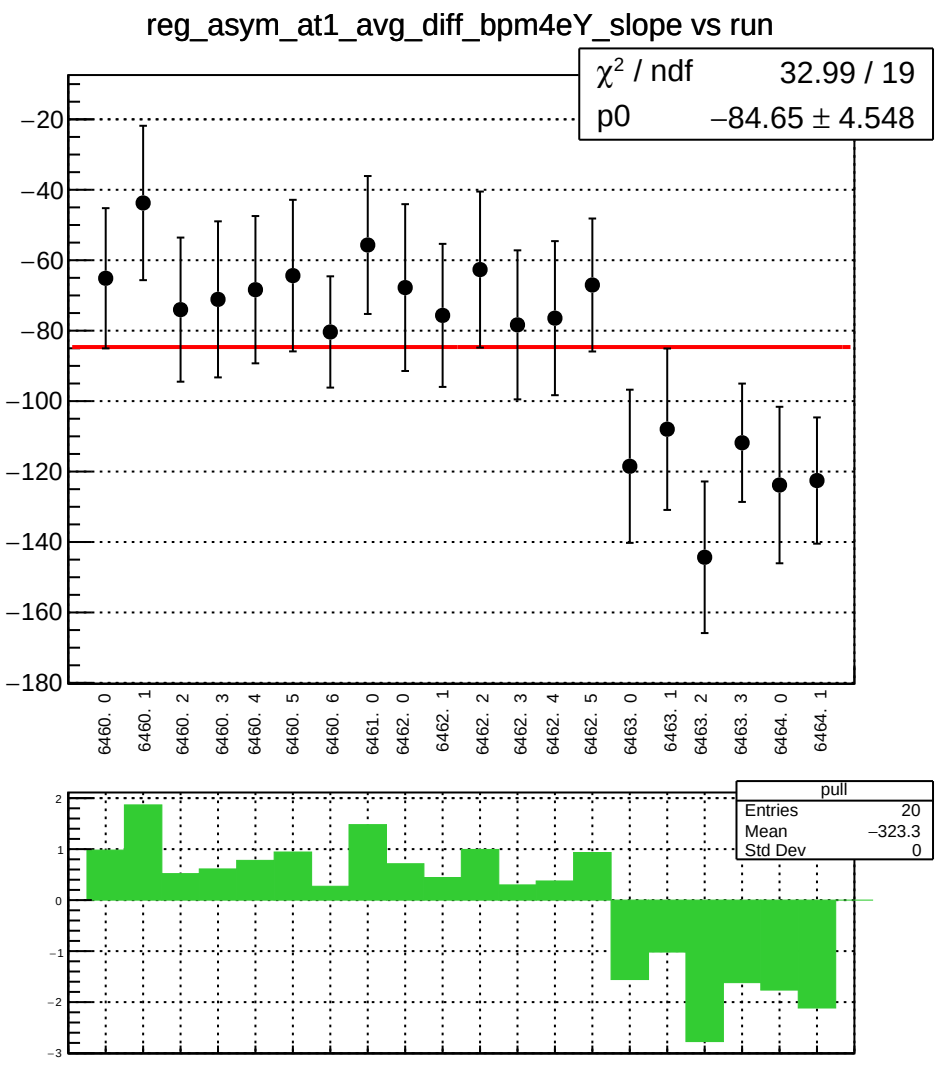

pull1D
Entries 20
Mean 0.01505
Std Dev 0.5273
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

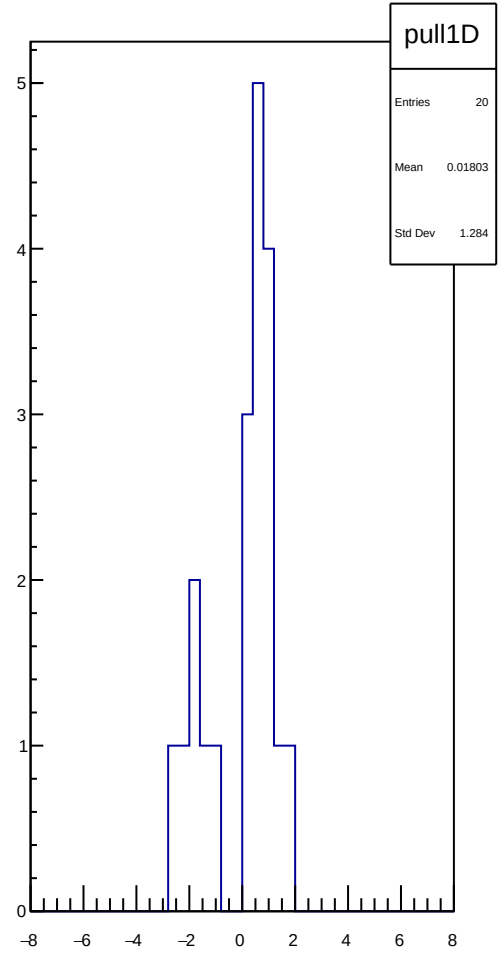

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 14.51 / 19
p0 118.1 ± 0.3566
124
122
120
118
116
114
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −94.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03732
Std Dev 0.8509
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

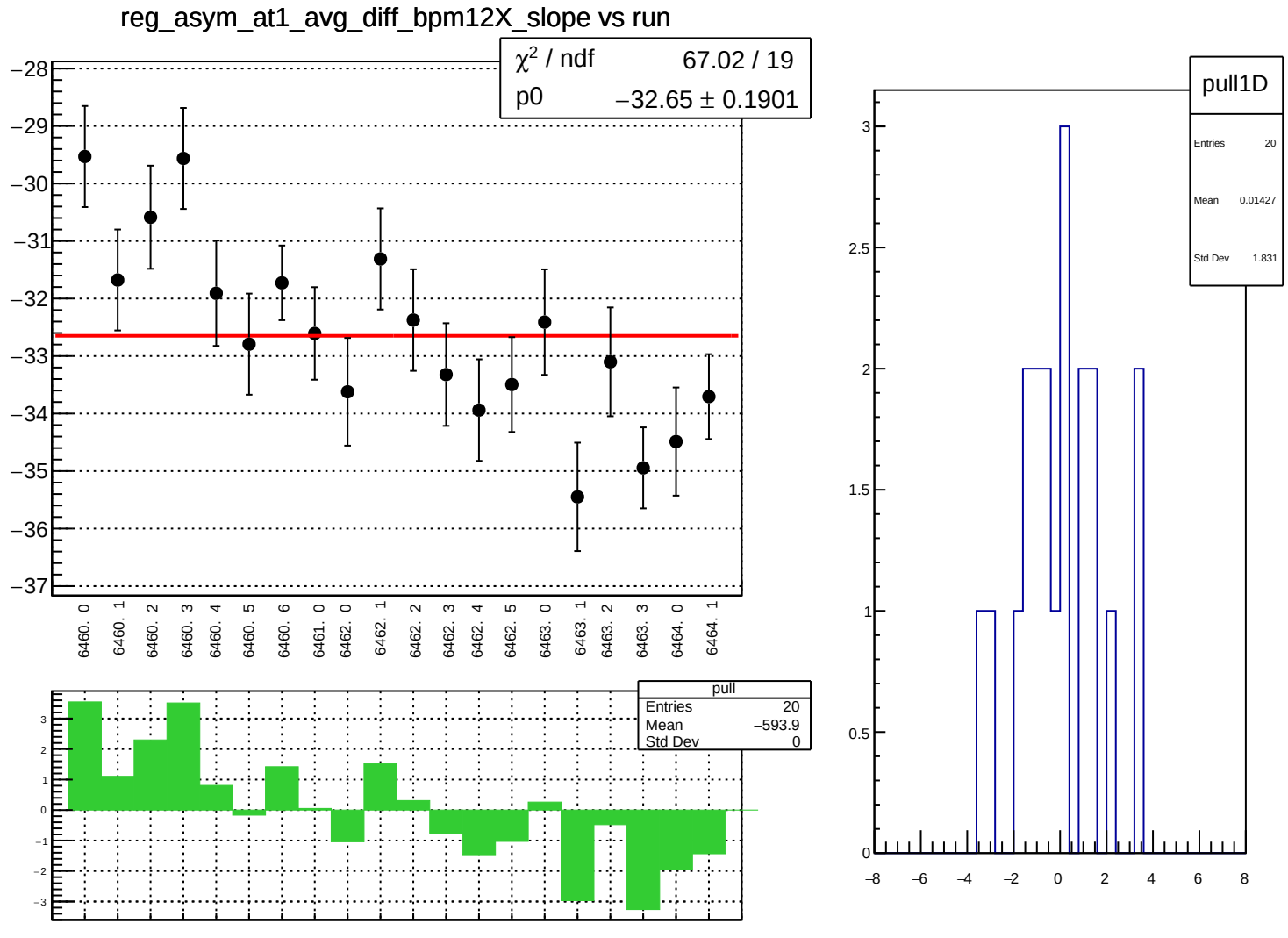

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 36.16 / 19
p0 −95.22 ± 3.846
−20
−40
−60
−80
−100
−120
−140
−160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 266.1
Std Dev 0
pull1D
Entries 20
Mean −0.01325
Std Dev 1.345

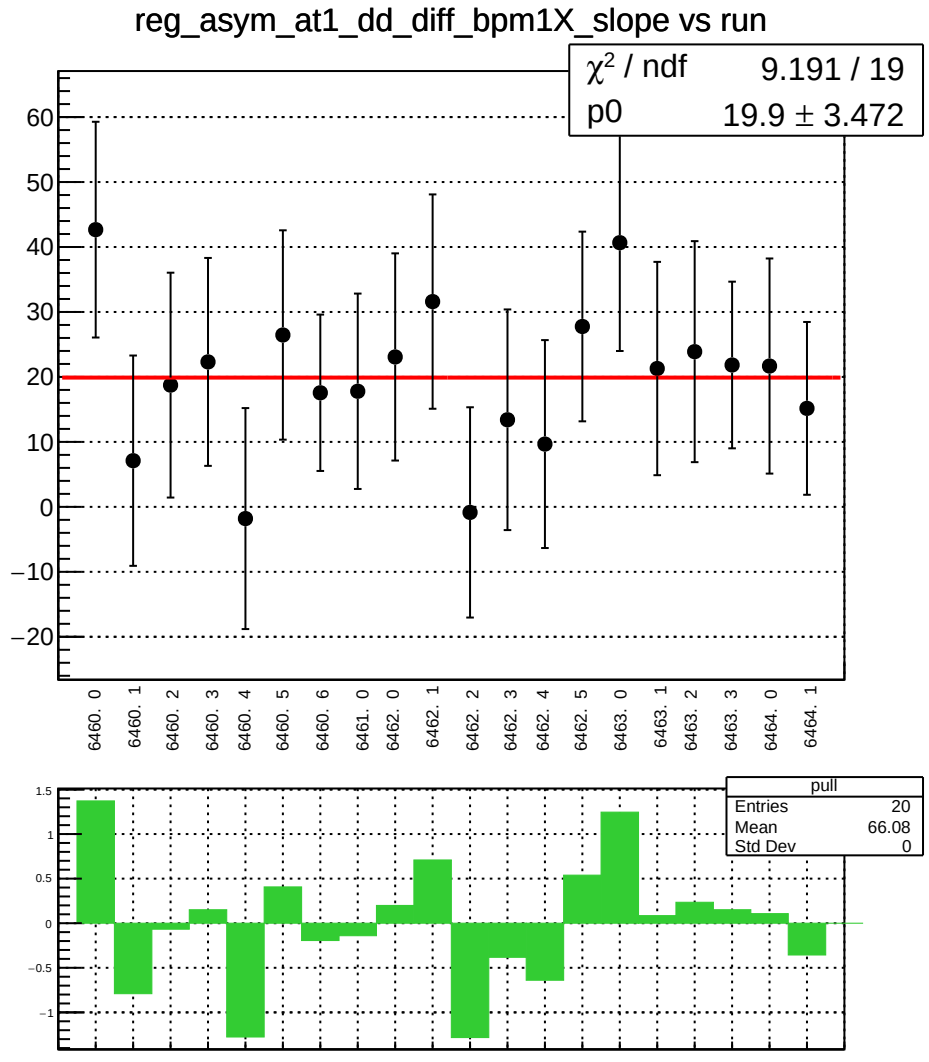

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.99 / 19
p0 48.33 ± 4.5
120
100
80
60
40
20
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −163.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02229
Std Dev 0.9481
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

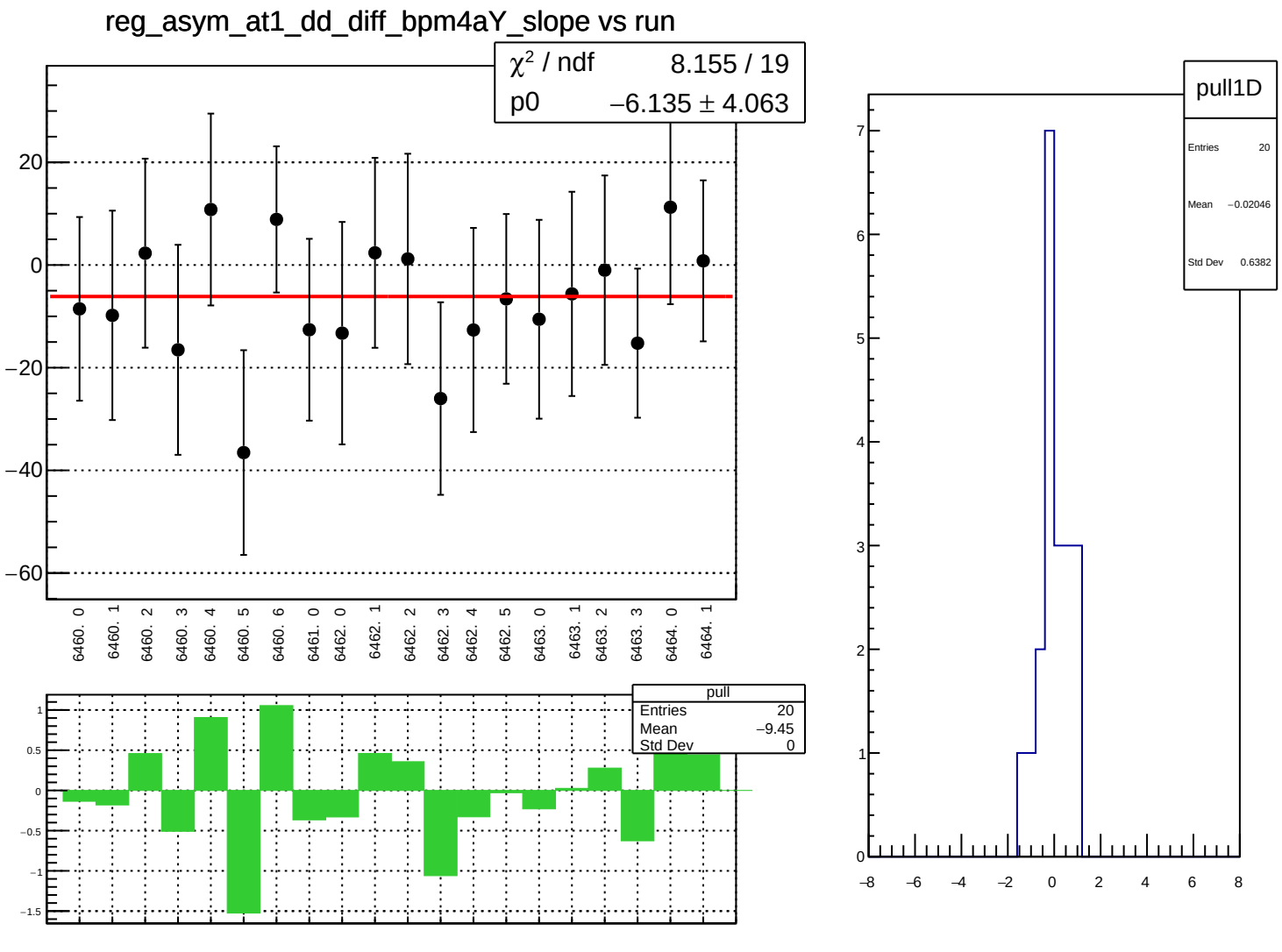

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.22 / 19
p0 93.22 ± 3.814
160
140
120
100
80
60
40
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 227.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 20
Mean 0.01609
Std Dev 1.327
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

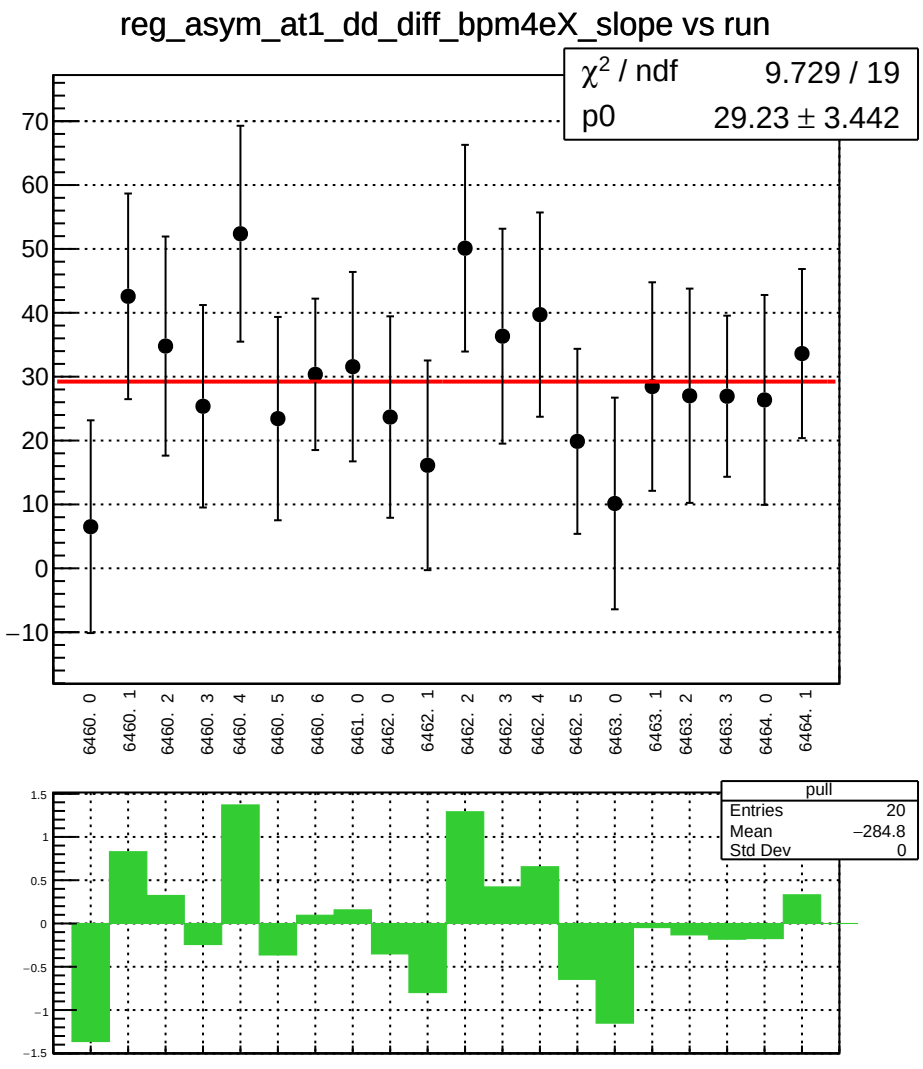

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.99 / 19
p0 −84.65 ± 4.548
−20
−40
−60
−80
−100
−120
−140
−160
−180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −323.3
Std Dev 0
2
1
0
−1
−2
−3

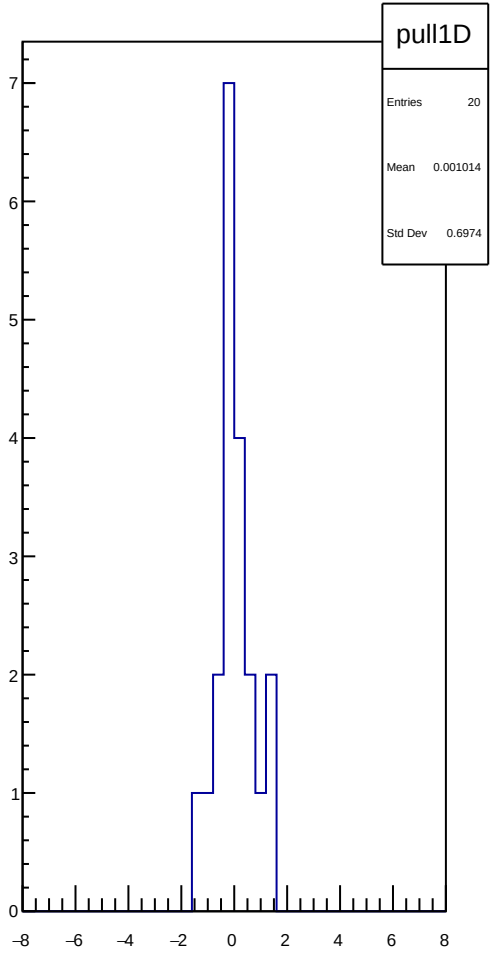

pull1D
Entries 20
Mean 0.01803
Std Dev 1.284
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

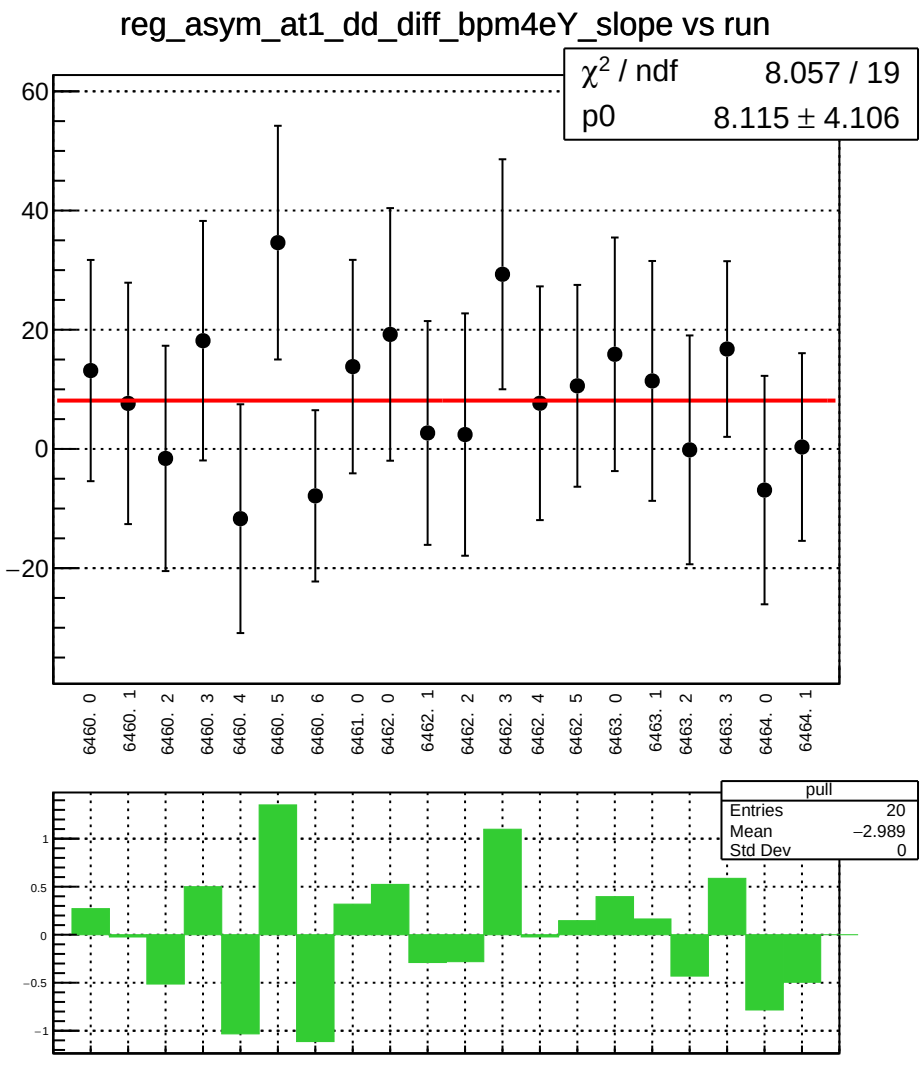

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 67.02 / 19
p0 −32.65 ± 0.1901
−28
−29
−30
−31
−32
−33
−34
−35
−36
−37
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −593.9
Std Dev 0
pull1D
Entries 20
Mean 0.01427
Std Dev 1.831

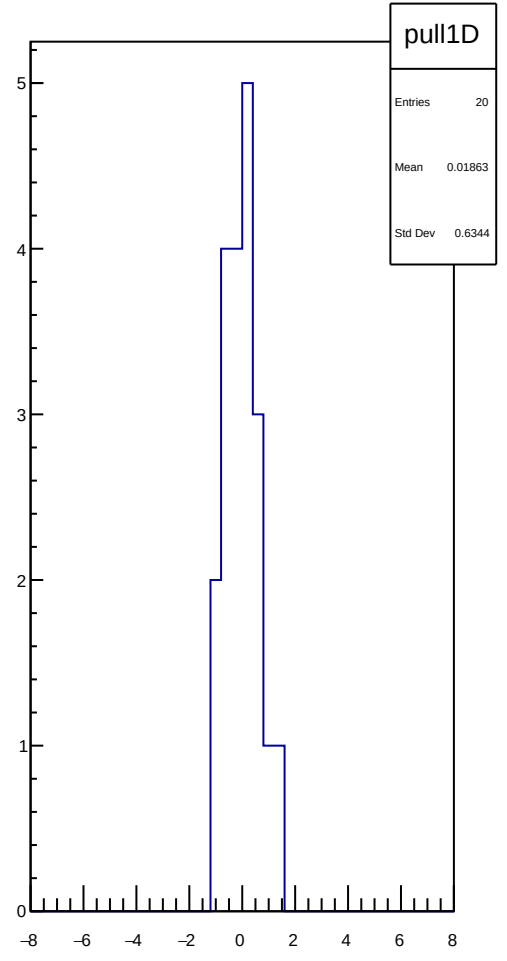

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 9.191 / 19
p0 19.9 ± 3.472
60
50
40
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 66.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.003659
Std Dev 0.6779
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

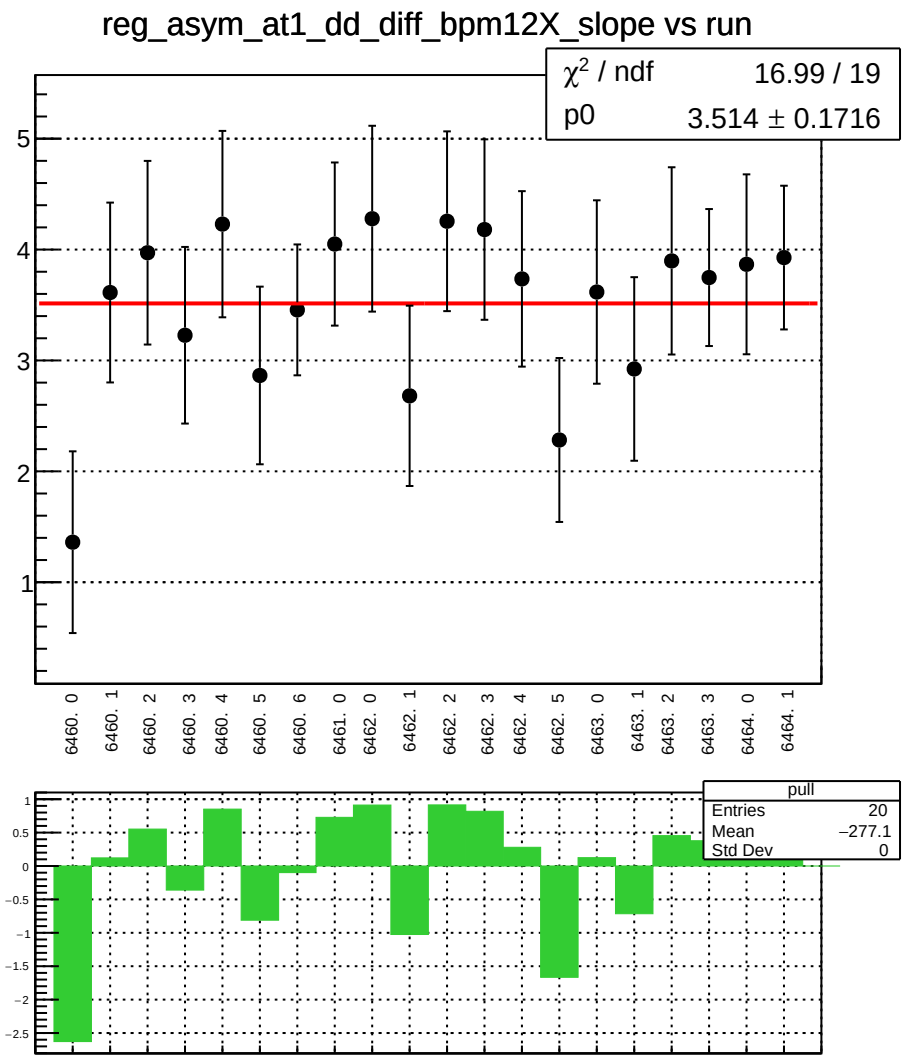

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.155 / 19
p0 −6.135 ± 4.063
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −9.45
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02046
Std Dev 0.6382
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

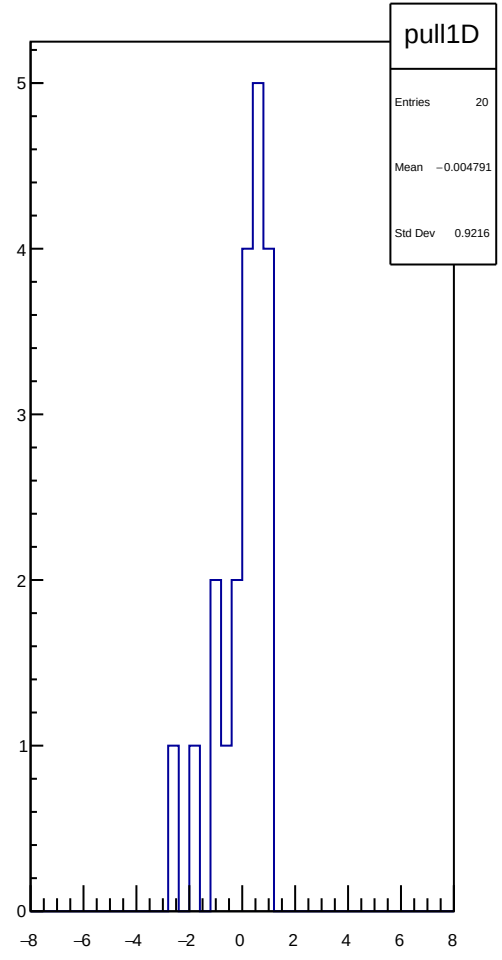

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.729 / 19
p0 29.23 ± 3.442
70
60
50
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −284.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

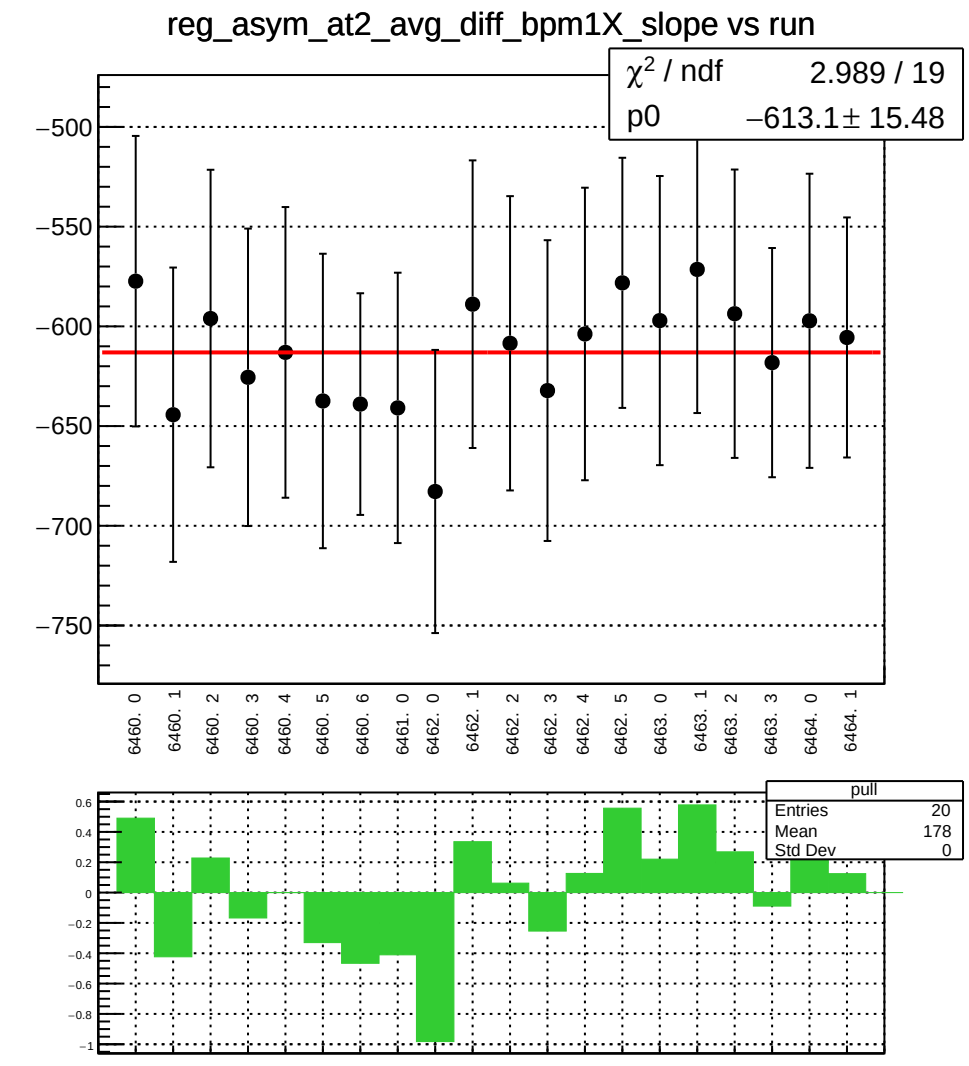

pull1D
Entries 20
Mean 0.001014
Std Dev 0.6974
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

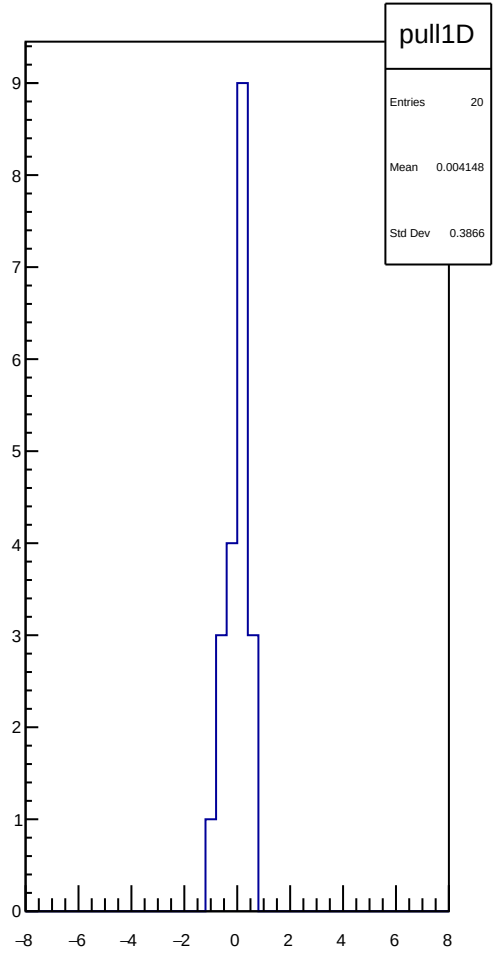

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.057 / 19
p0 8.115 ± 4.106
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2.989
Std Dev 0
1
0.5
0
−0.5
−1

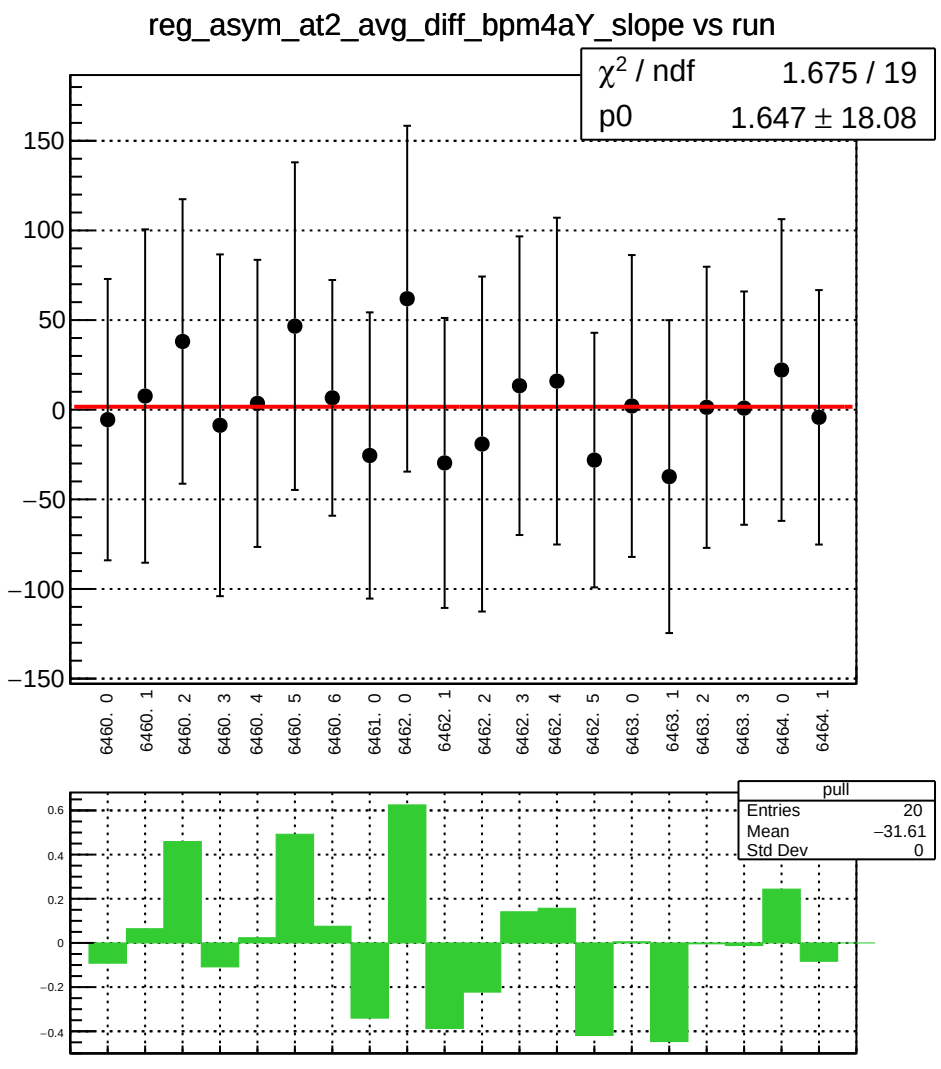

pull1D
Entries 20
Mean 0.01863
Std Dev 0.6344
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

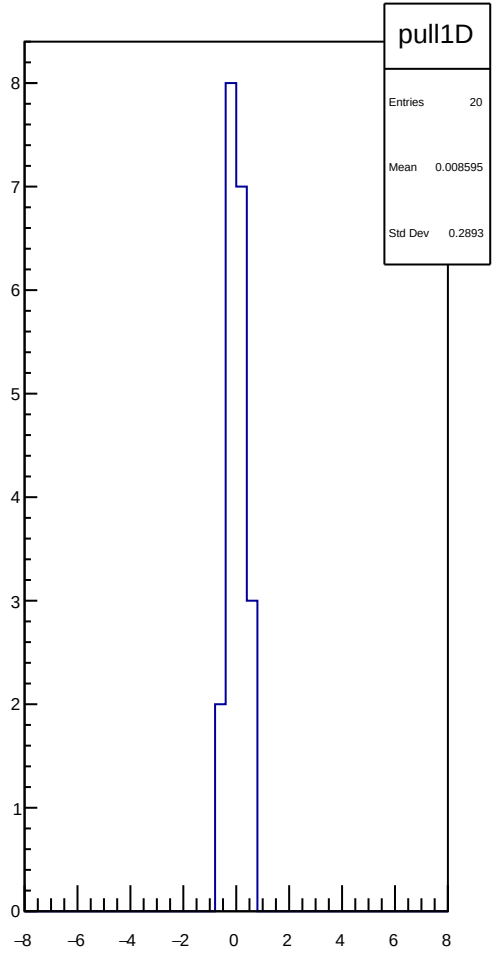

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 16.99 / 19
p0 3.514 ± 0.1716
pull
Entries 20
Mean −277.1
Std Dev 0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

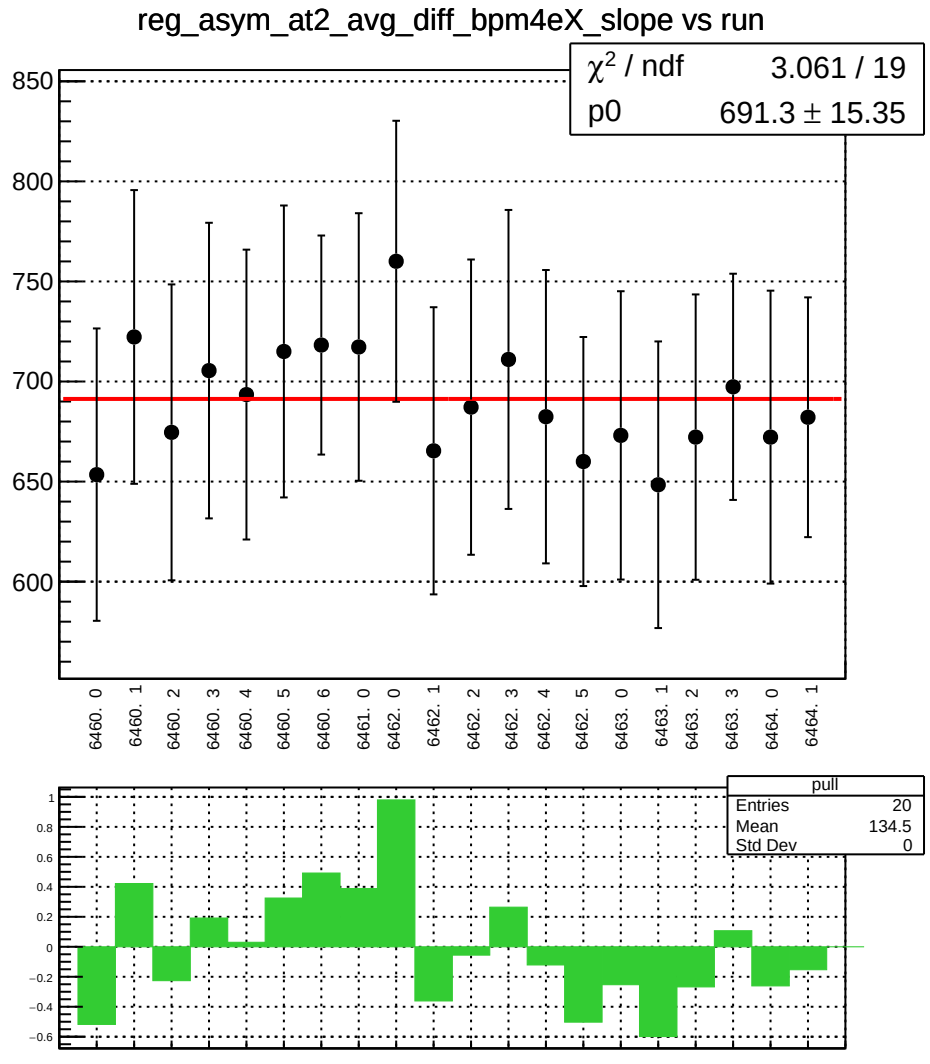

pull1D
Entries 20
Mean −0.004791
Std Dev 0.9216

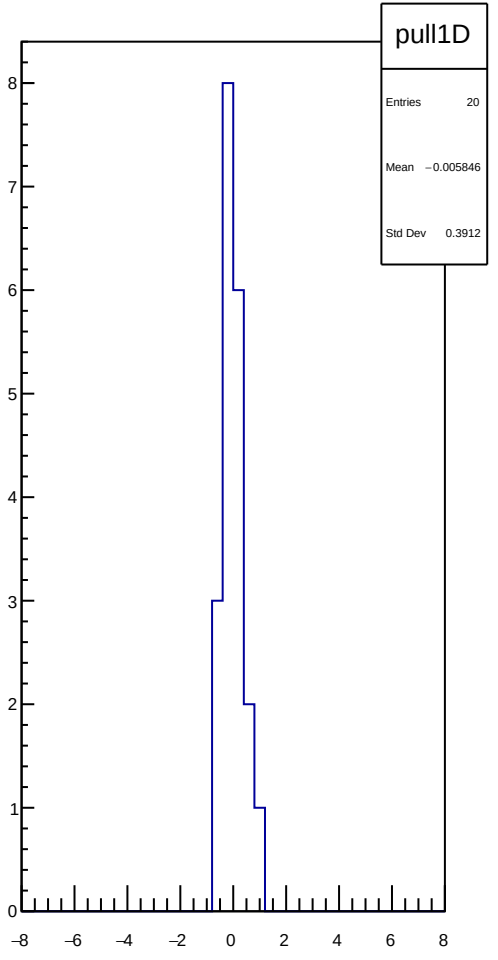

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 2.989 / 19
p0 −613.1± 15.48
−500
−550
−600
−650
−700
−750
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 178
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

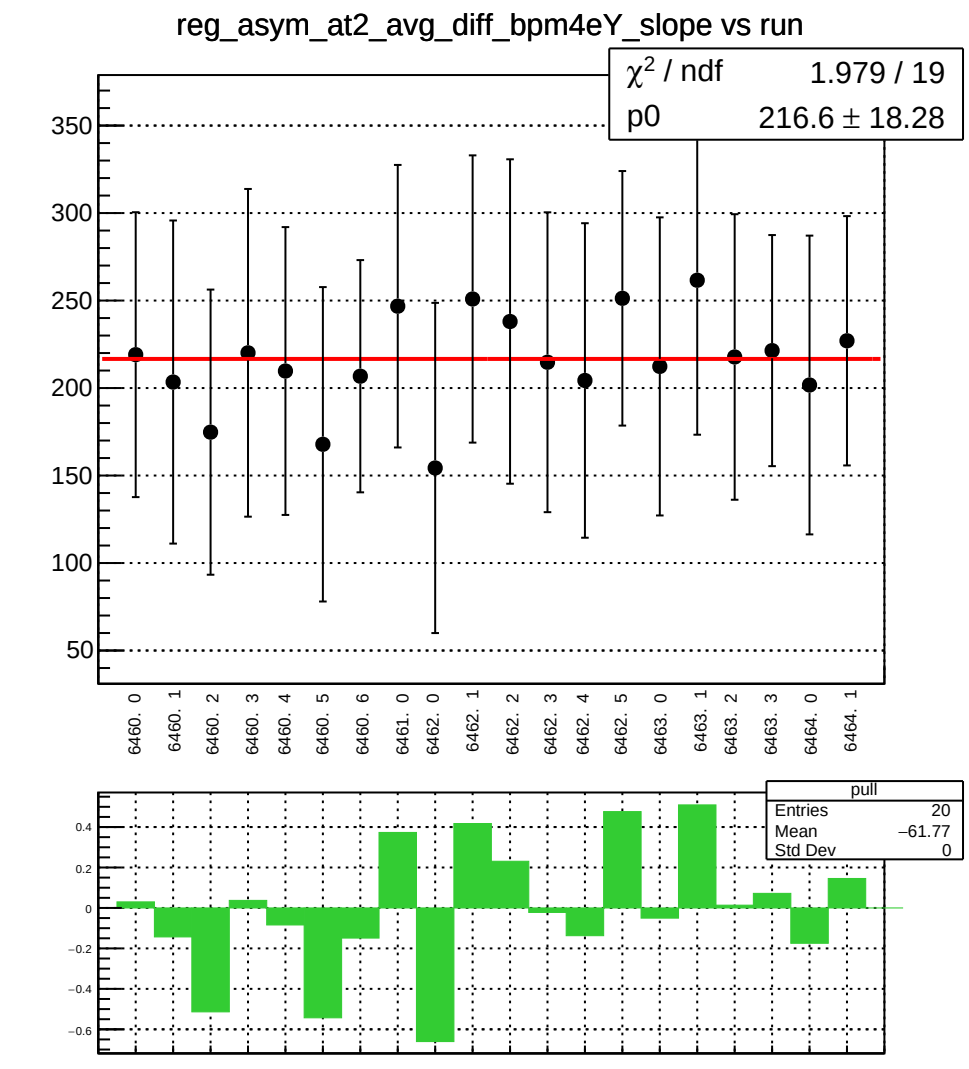

pull1D
Entries 20
Mean 0.004148
Std Dev 0.3866
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

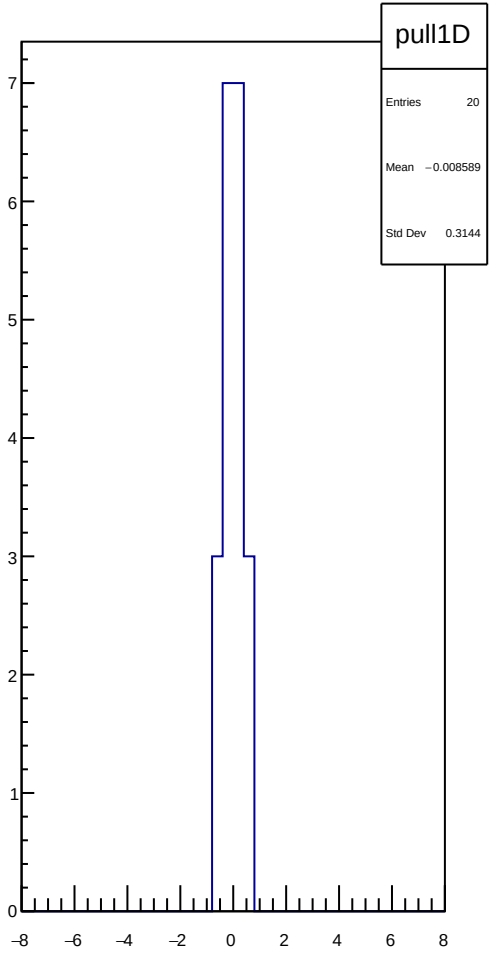

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.675 / 19
p0 1.647 ± 18.08
150
100
50
0
−50
−100
−150
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −31.61
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

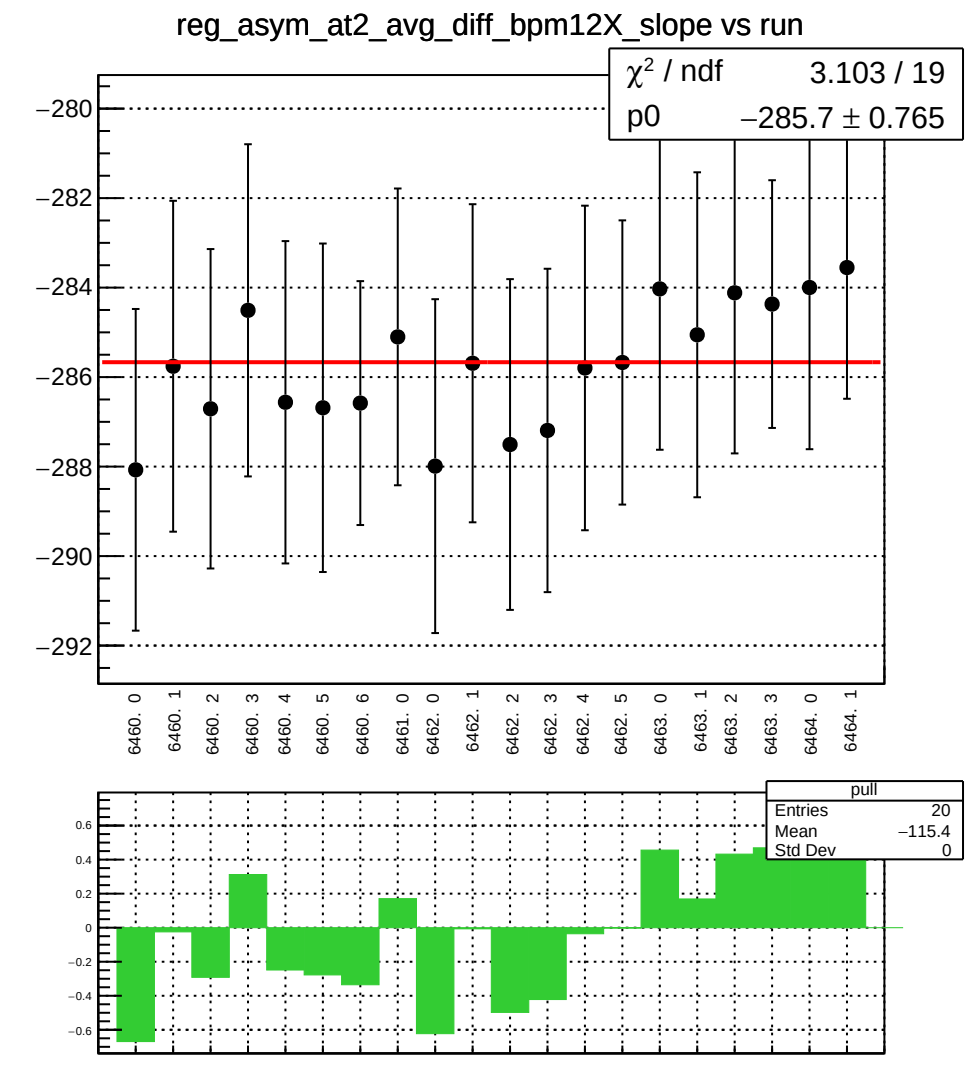

pull1D
Entries 20
Mean 0.008595
Std Dev 0.2893
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

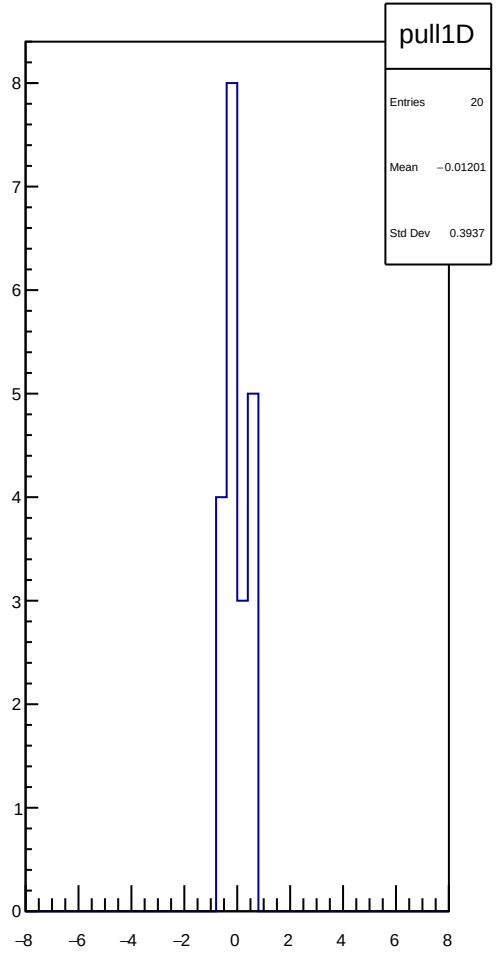

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.061 / 19
p0 691.3 ± 15.35
850
800
750
700
650
600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 134.5
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

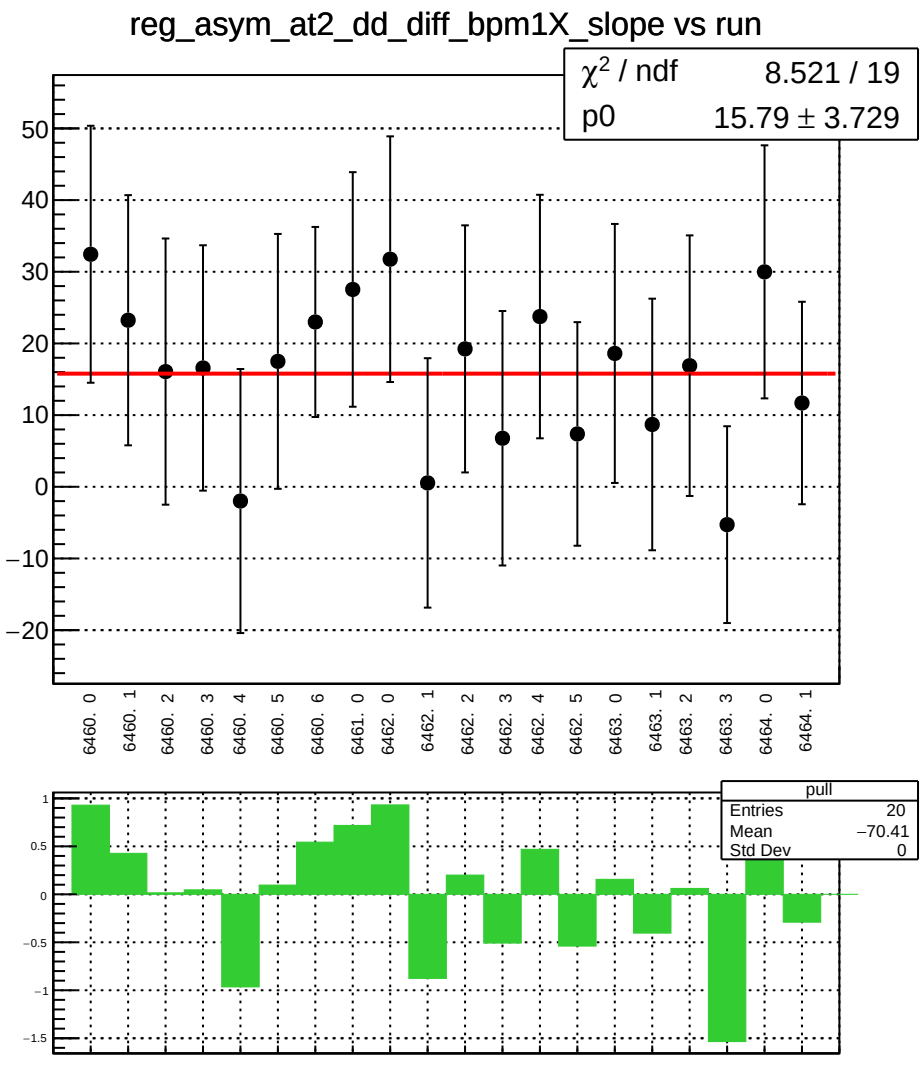

pull1D
Entries 20
Mean −0.005846
Std Dev 0.3912
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

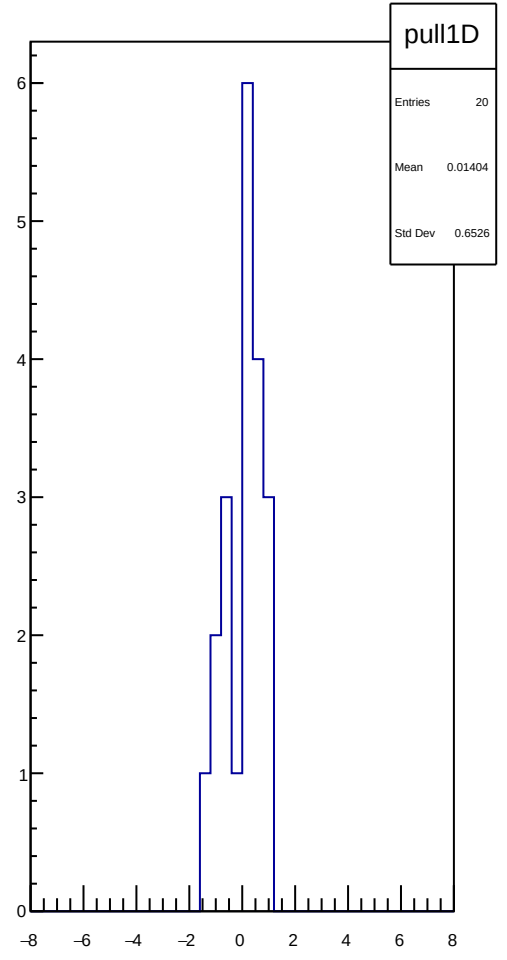

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.979 / 19
p0 216.6 ± 18.28
350
300
250
200
150
100
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −61.77
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

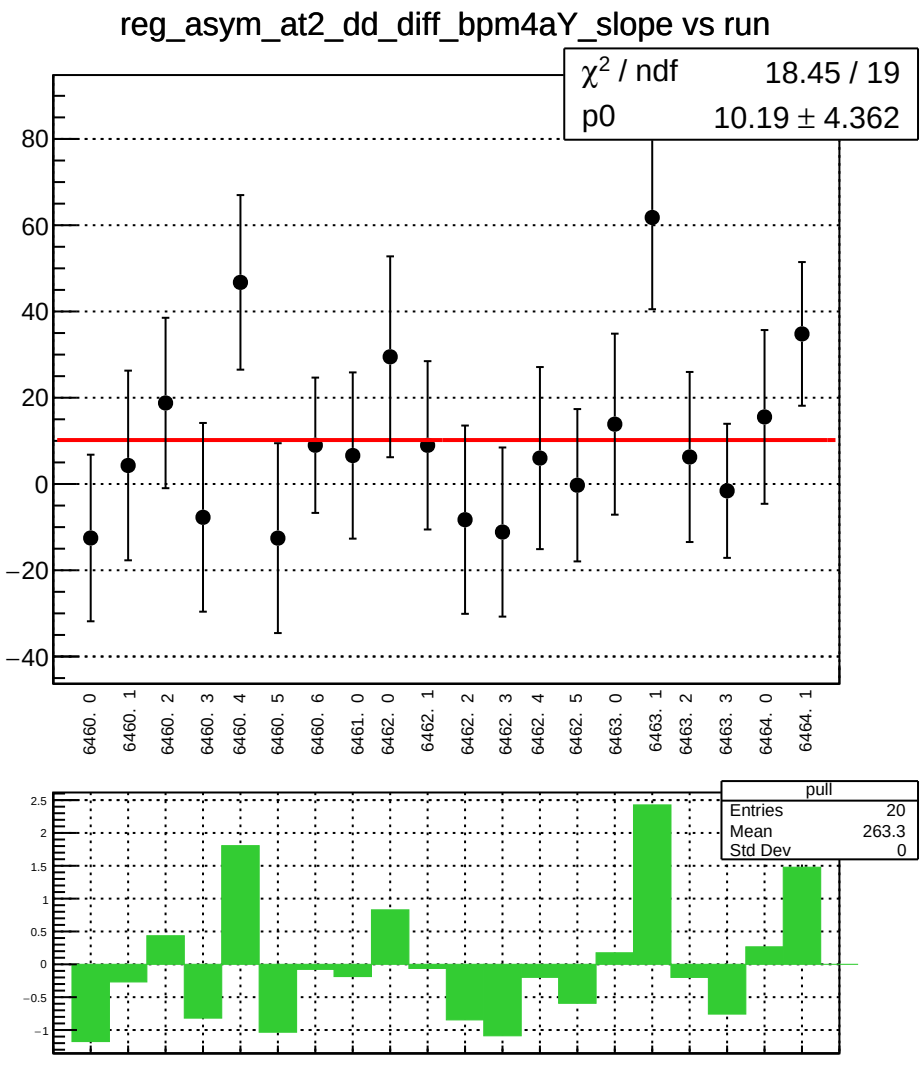

pull1D
Entries 20
Mean −0.008589
Std Dev 0.3144
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

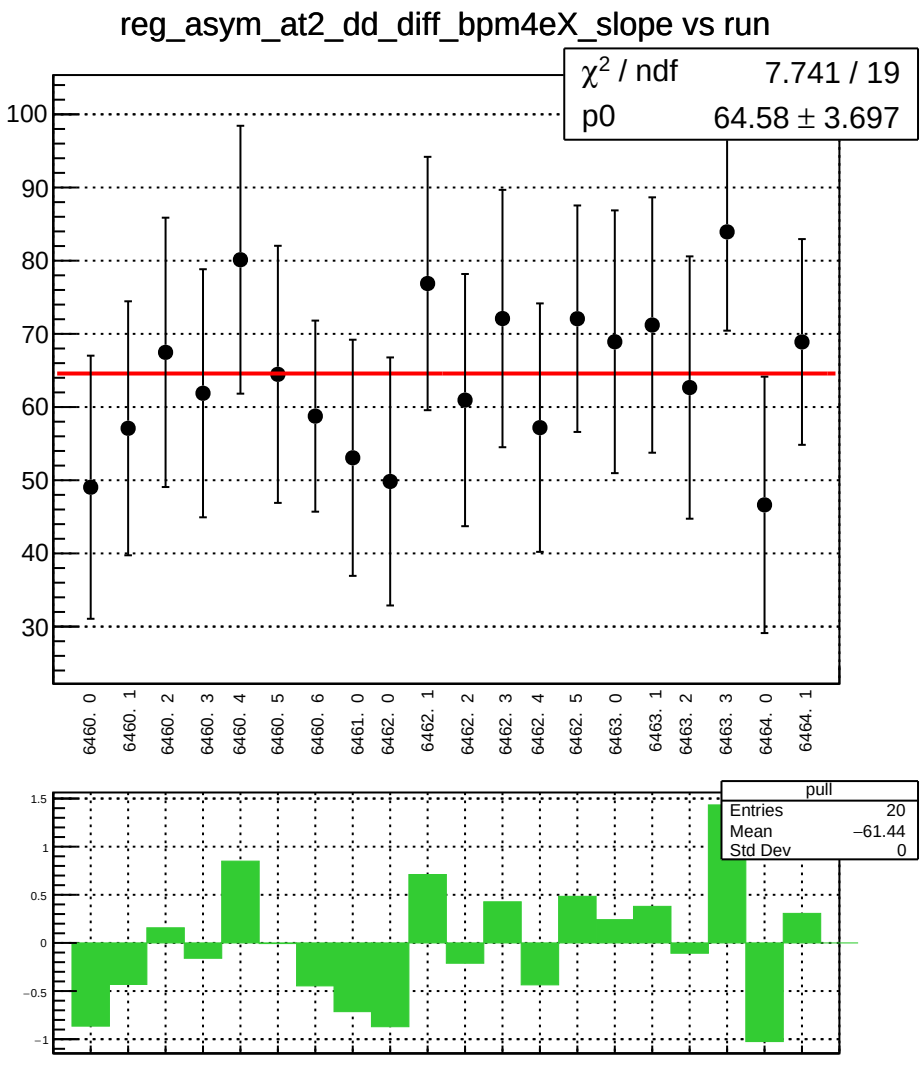

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.103 / 19
p0 −285.7 ± 0.765
−280
−282
−284
−286
−288
−290
−292
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −115.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

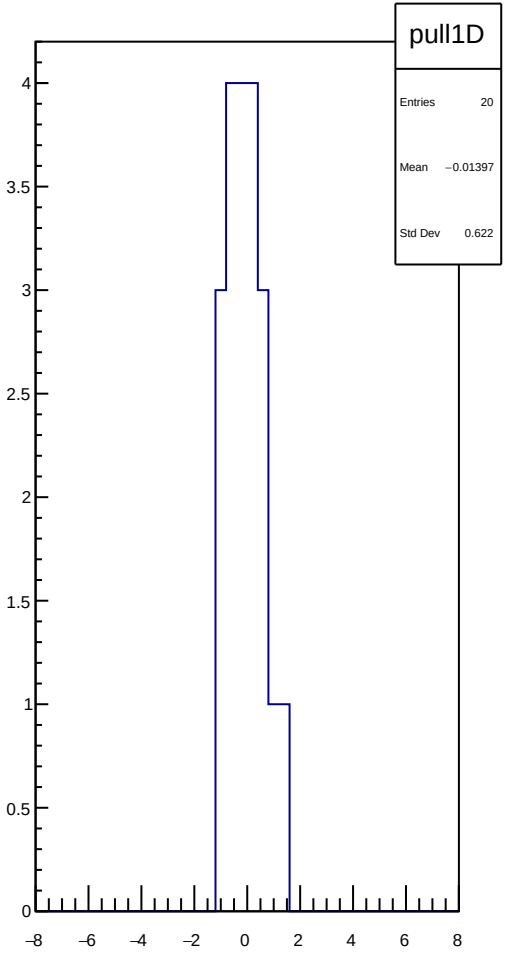

pull1D
Entries 20
Mean −0.01201
Std Dev 0.3937
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

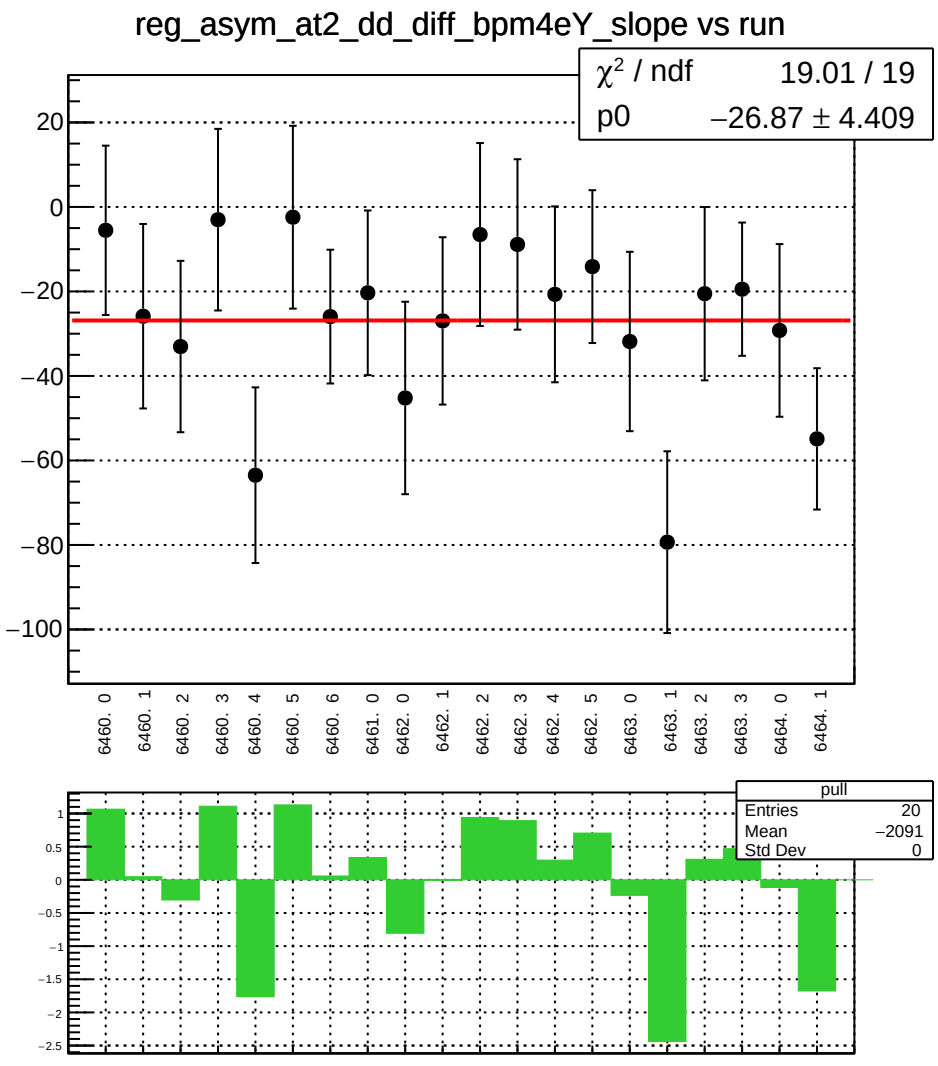

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.521 / 19
p0 15.79 ± 3.729
50
40
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −70.41
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

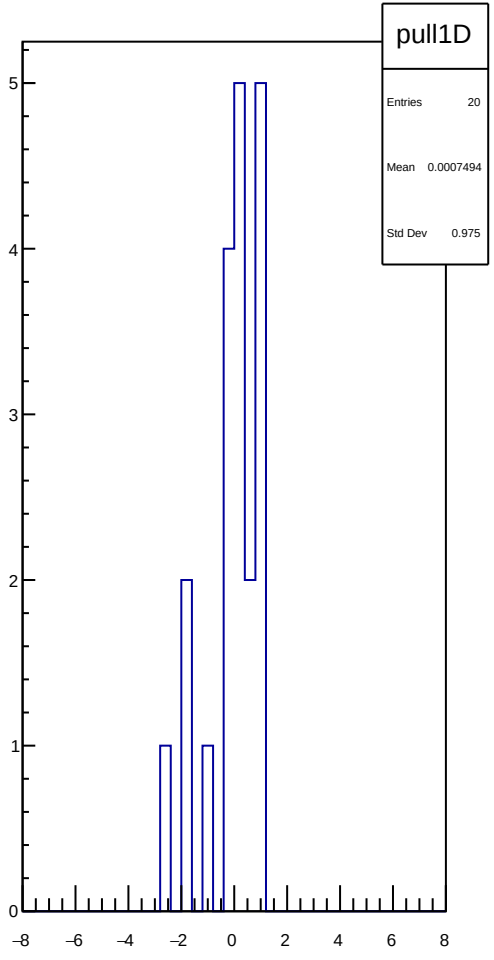

pull1D
Entries 20
Mean 0.01404
Std Dev 0.6526
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

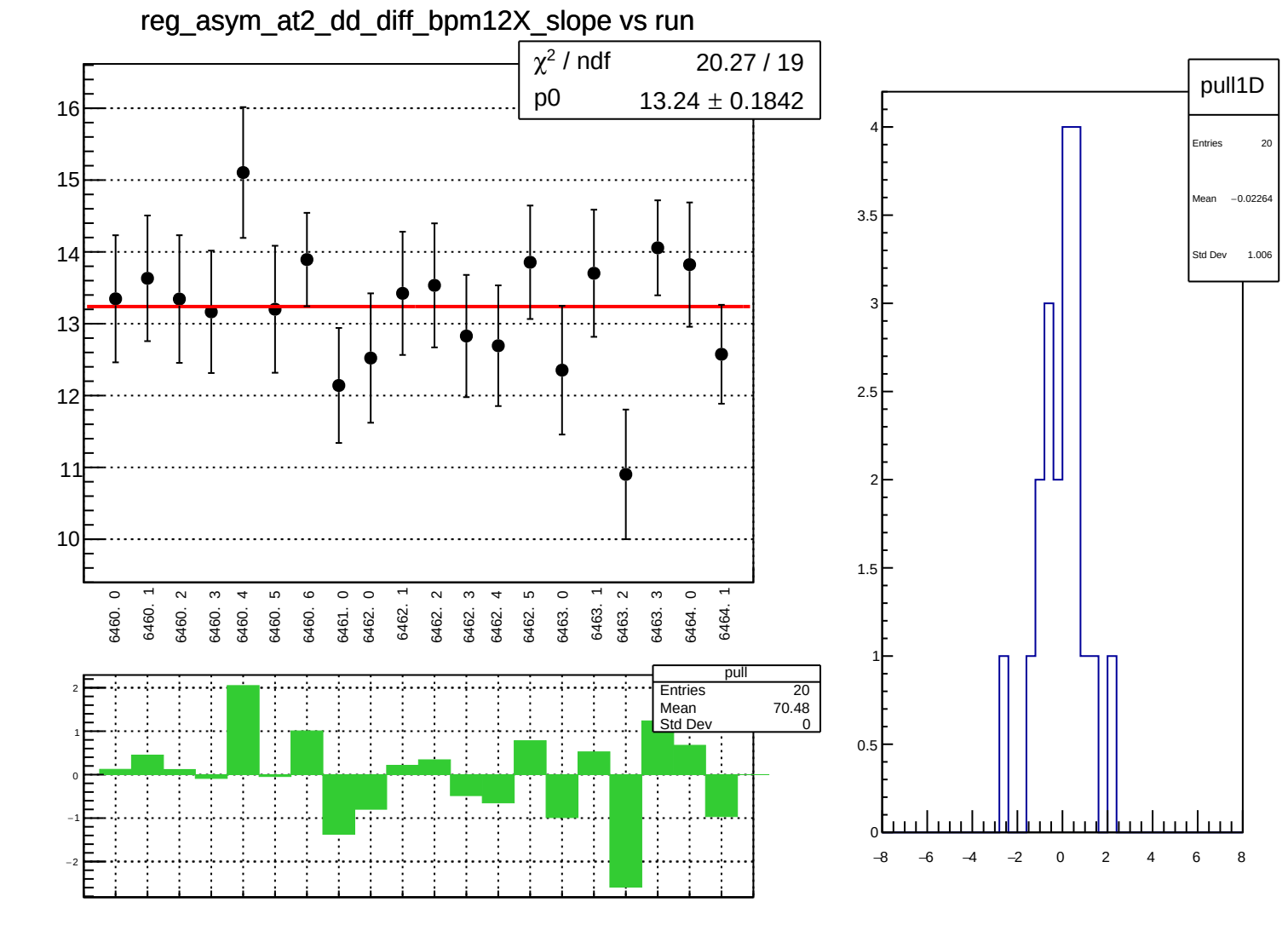

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.45 / 19
p0 10.19 ± 4.362
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 263.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.00564
Std Dev 0.9605
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

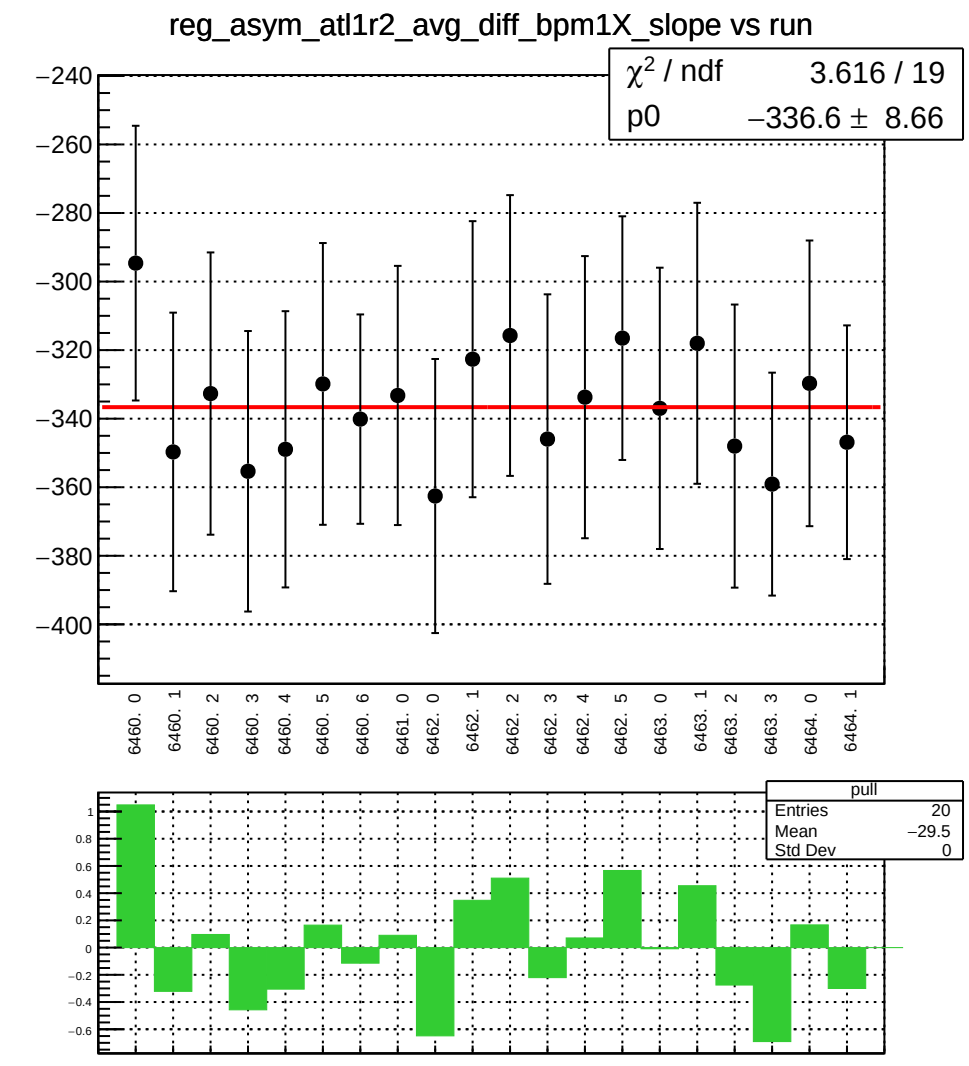

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.741 / 19
p0 64.58 ± 3.697
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −61.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1

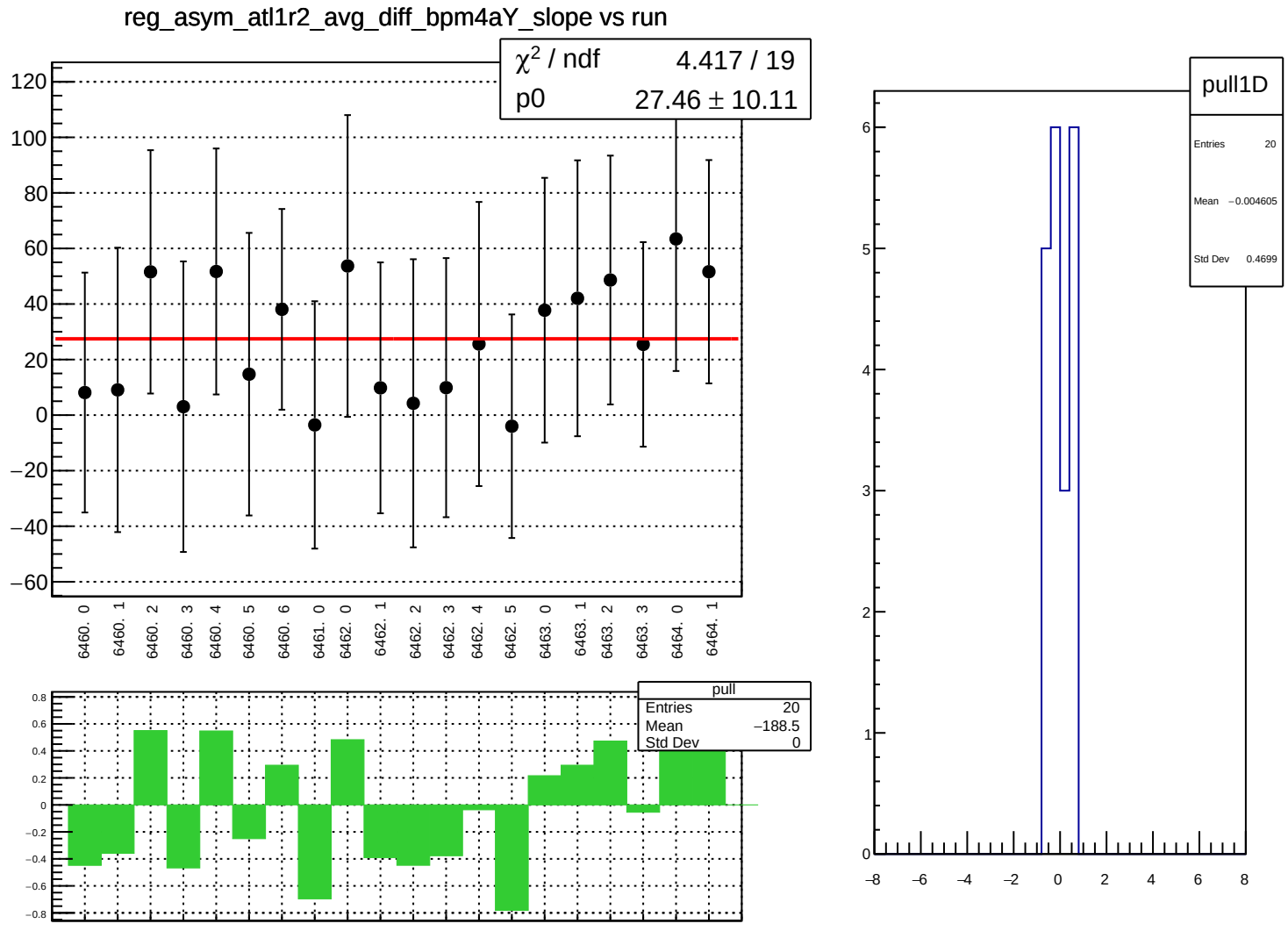

pull1D
Entries 20
Mean −0.01397
Std Dev 0.622
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

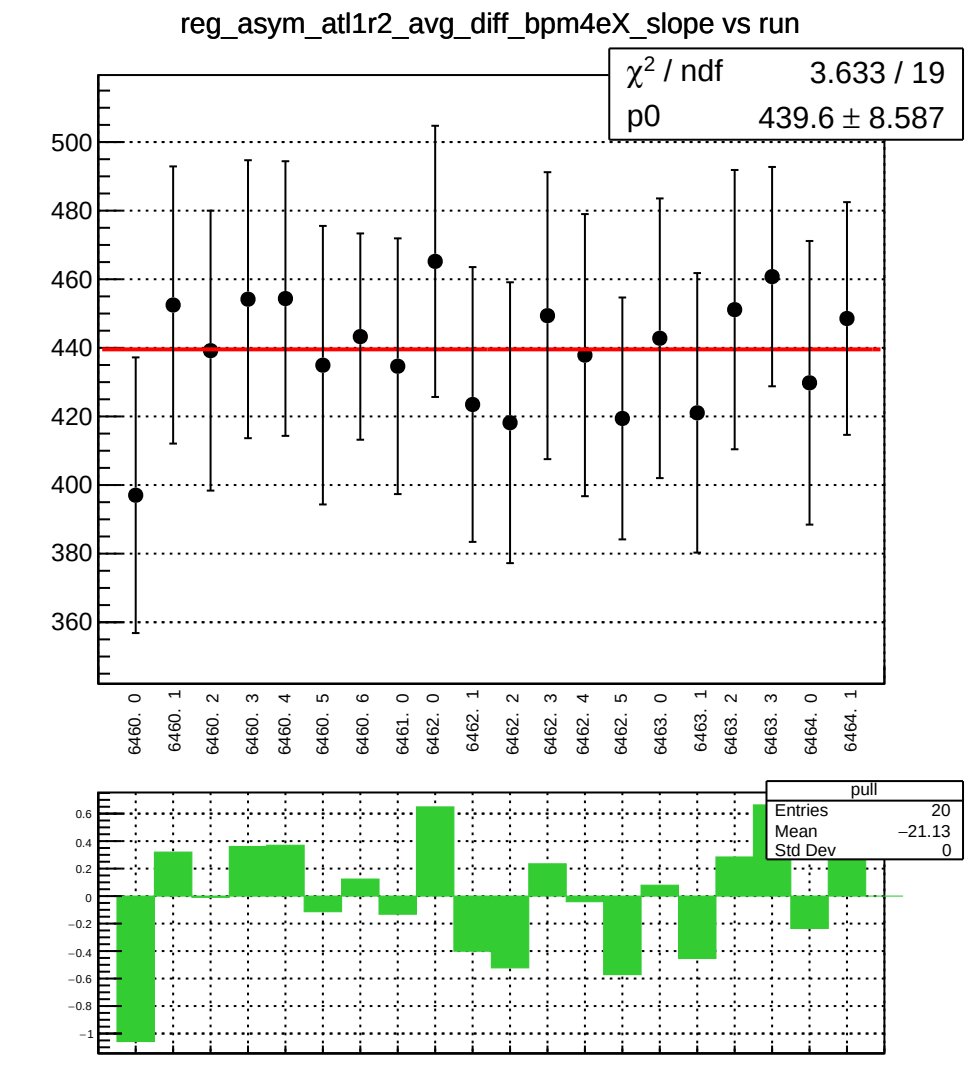

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.01 / 19
p0 −26.87 ± 4.409
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2091
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

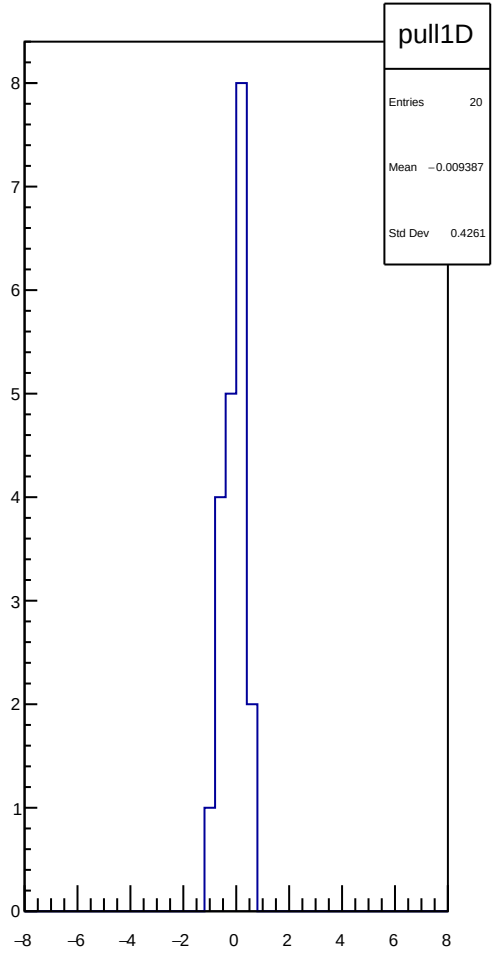

pull1D
Entries 20
Mean 0.0007494
Std Dev 0.975
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

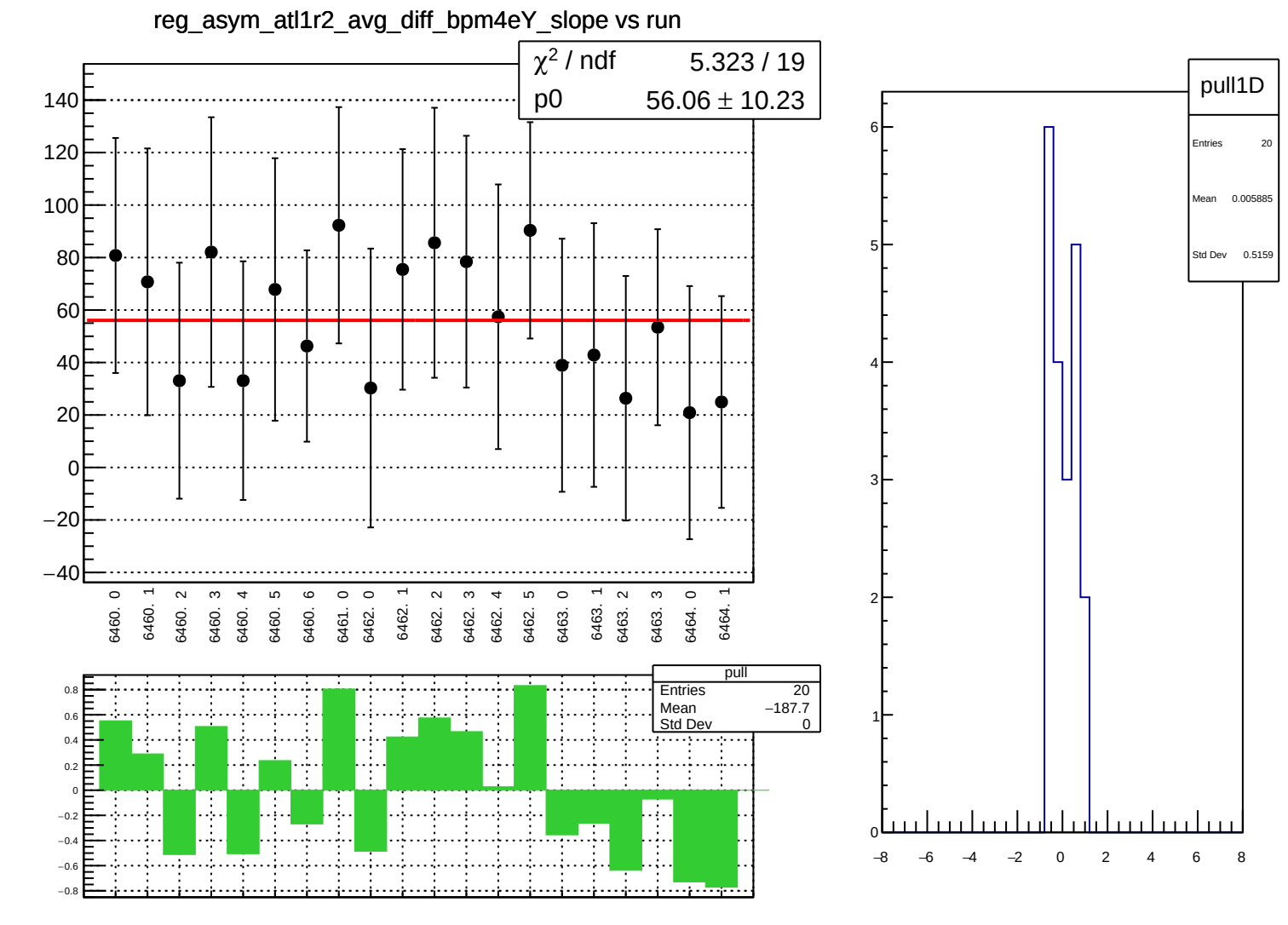

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.27 / 19
p0 13.24 ± 0.1842
16
15
14
13
12
11
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 70.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.02264
Std Dev 1.006
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

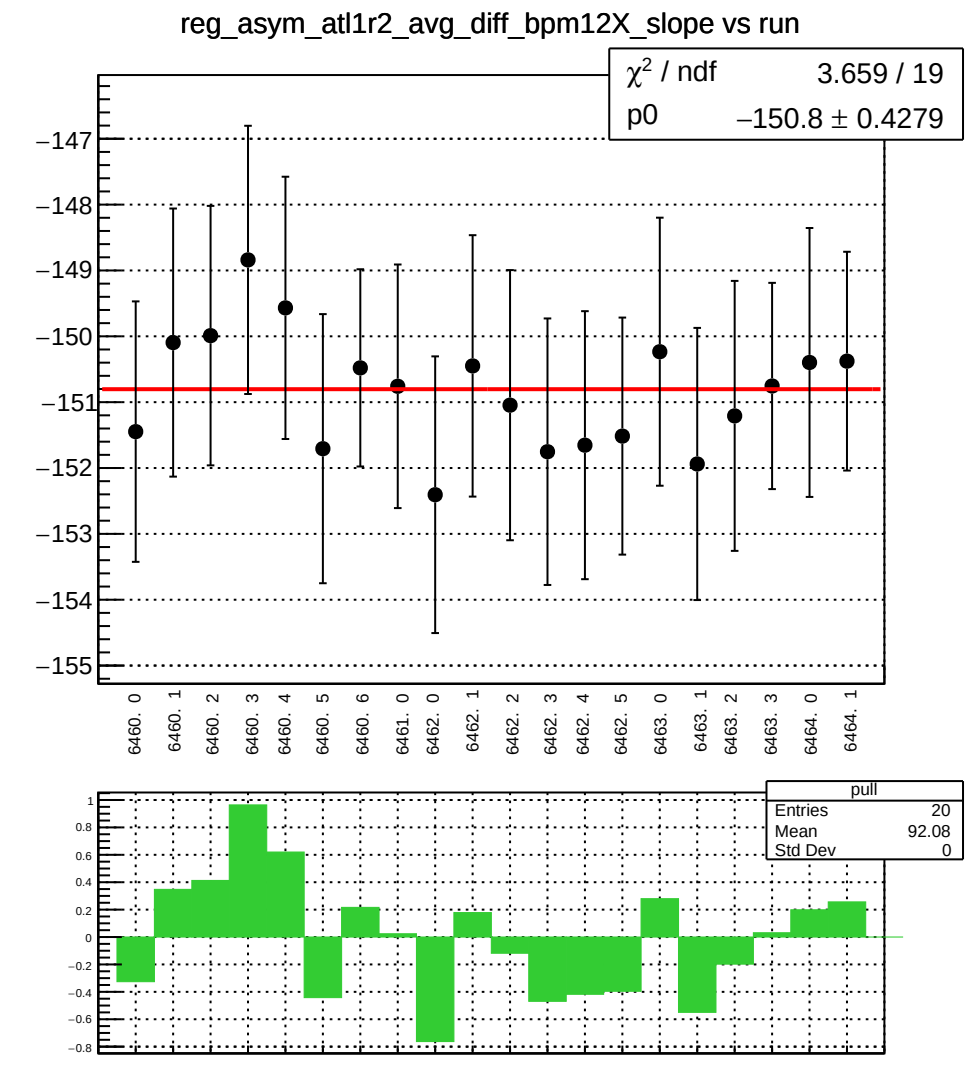

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.616 / 19
p0 −336.6 ± 8.66
−240
−260
−280
−300
−320
−340
−360
−380
−400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.5
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.008767
Std Dev 0.4251
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

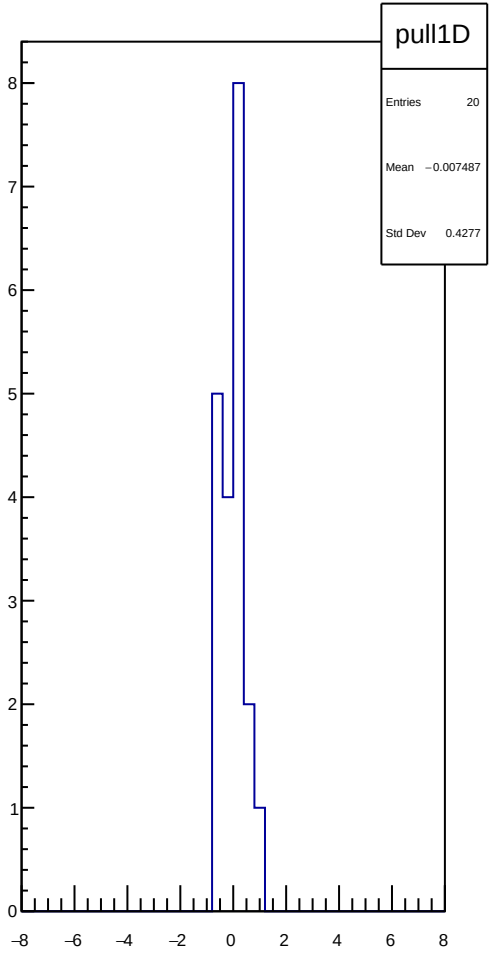

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.417 / 19
p0 27.46 ± 10.11
120
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −188.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.004605
Std Dev 0.4699
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

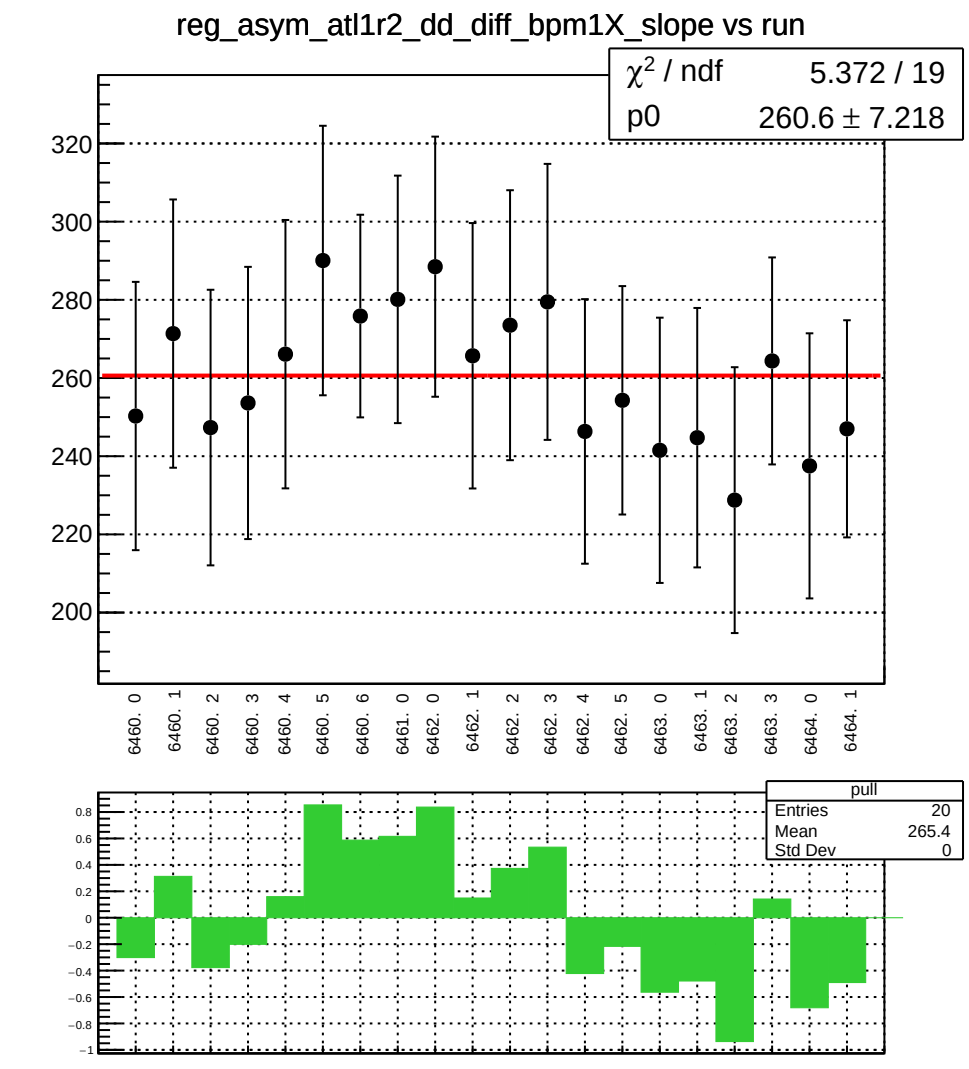

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.633 / 19
p0 439.6 ± 8.587
500
480
460
440
420
400
380
360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −21.13
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

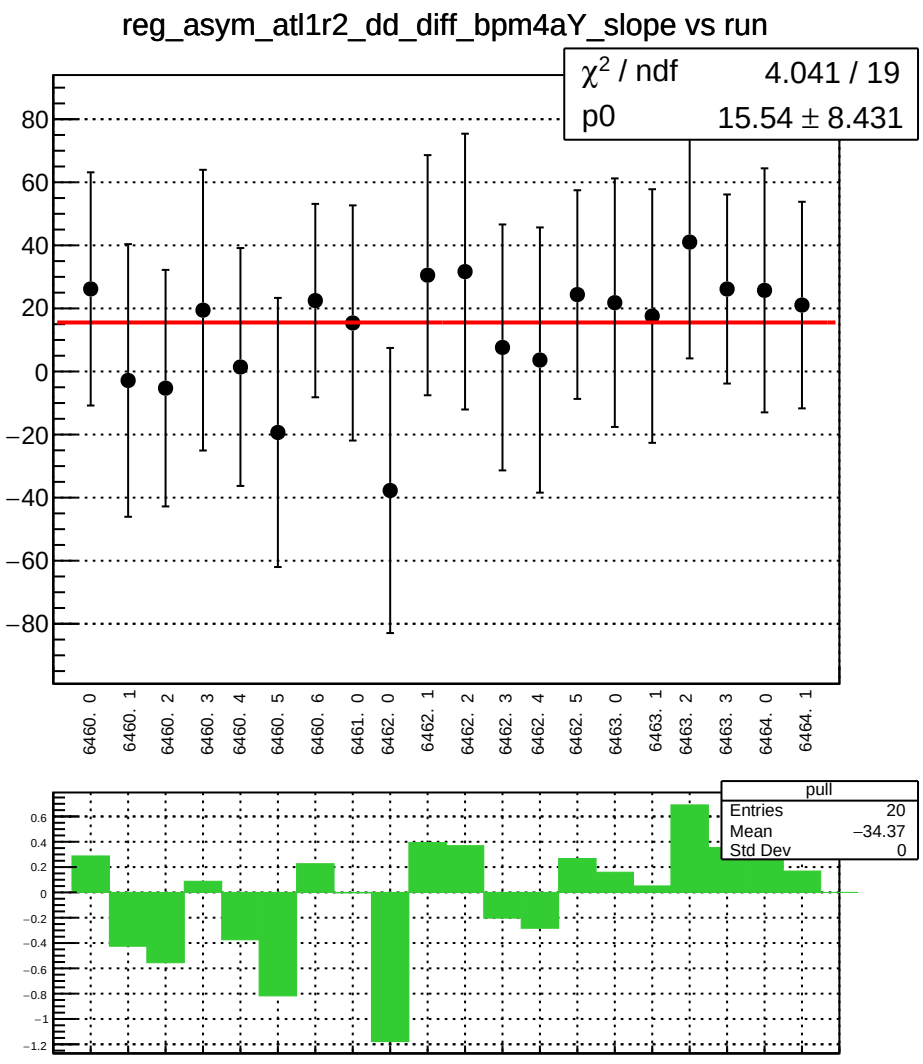

pull1D
Entries 20
Mean −0.009387
Std Dev 0.4261
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

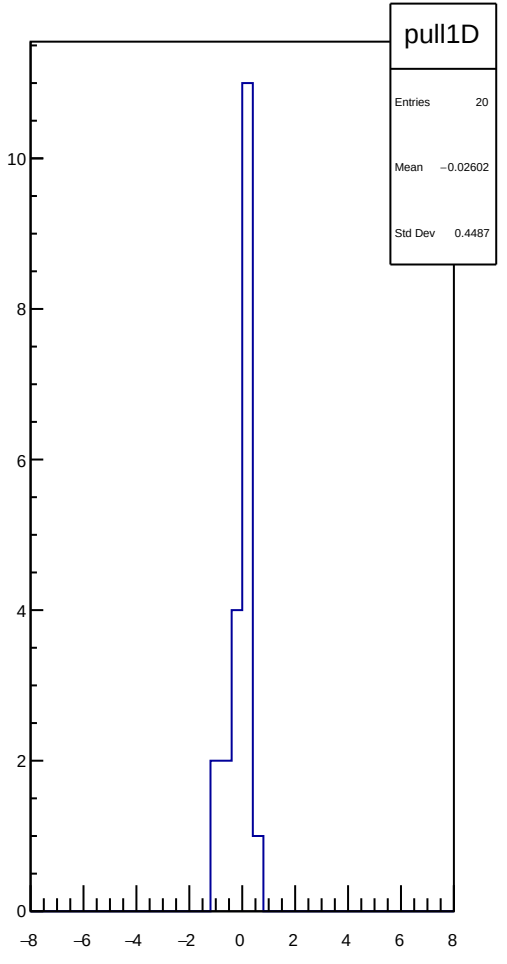

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.323 / 19
p0 56.06 ± 10.23
140
120
100
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −187.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.005885
Std Dev 0.5159
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

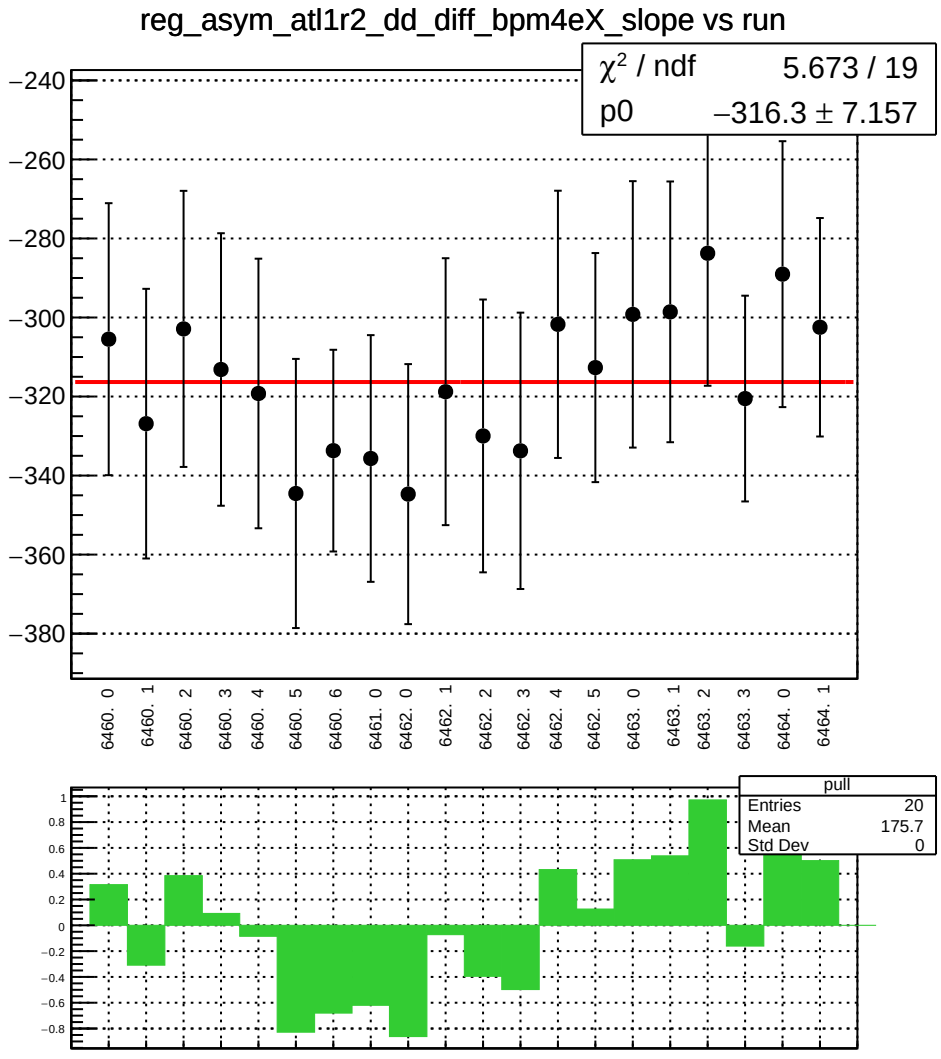

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.659 / 19
p0 −150.8 ± 0.4279
−147
−148
−149
−150
−151
−152
−153
−154
−155
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 92.08
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

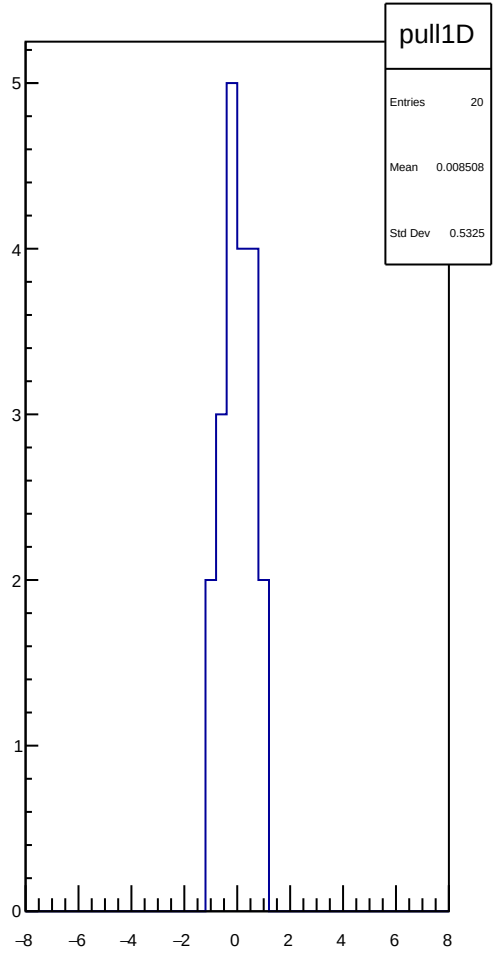

pull1D
Entries 20
Mean −0.007487
Std Dev 0.4277
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

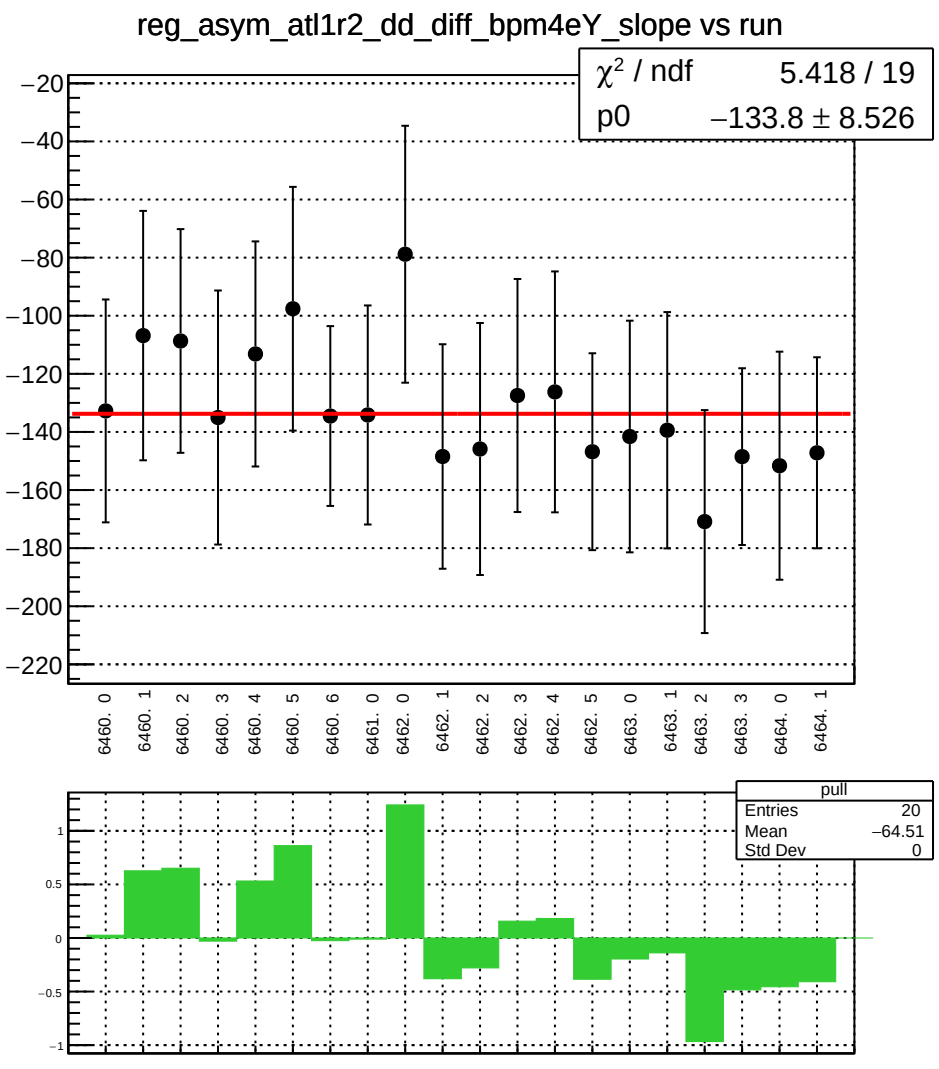

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.372 / 19
p0 260.6 ± 7.218
320
300
280
260
240
220
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 265.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 20
Mean −0.005241
Std Dev 0.5182
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

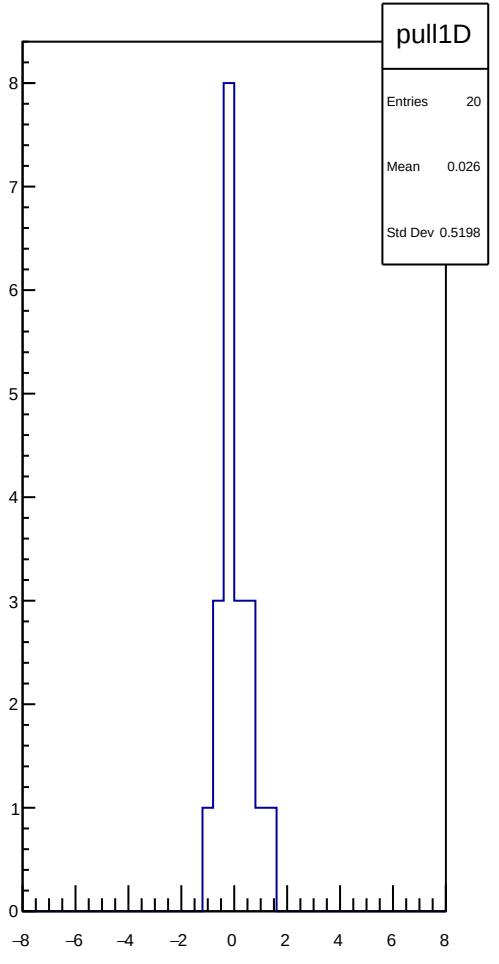

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.041 / 19
p0 15.54 ± 8.431
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −34.37
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

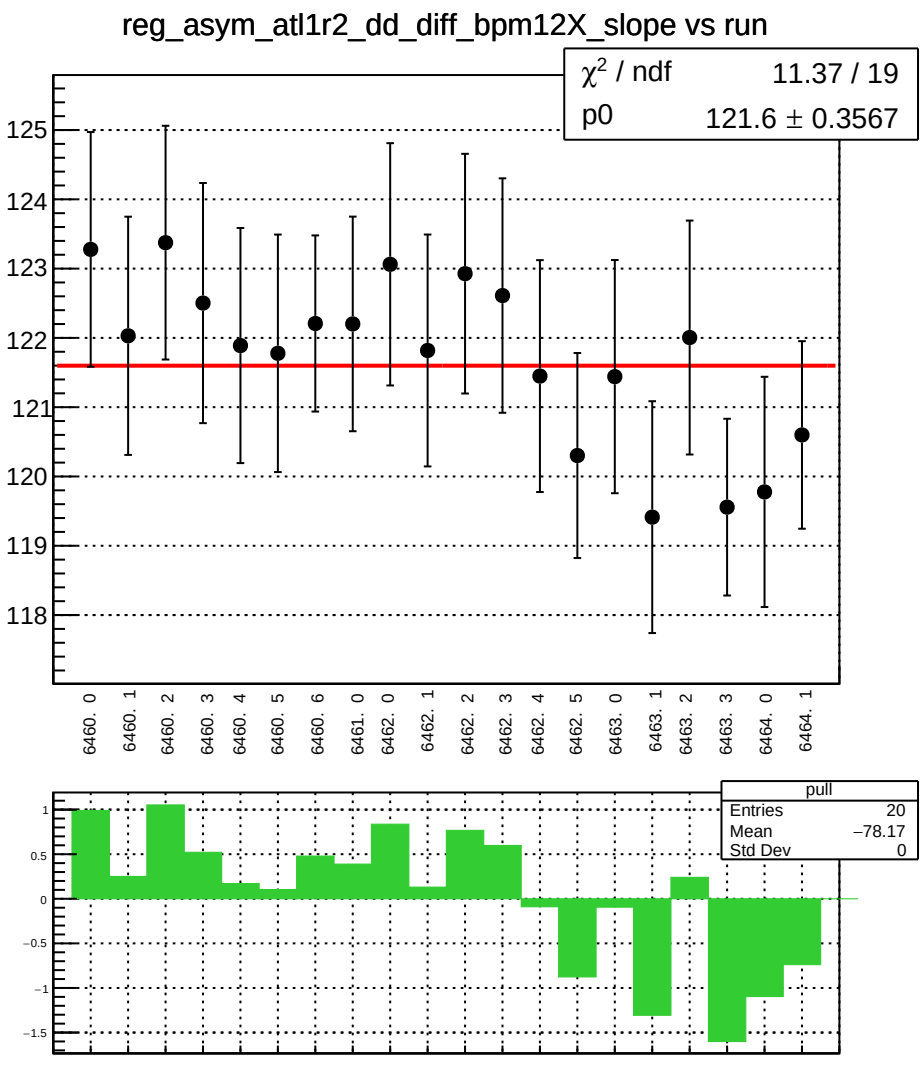

pull1D
Entries 20
Mean −0.02602
Std Dev 0.4487
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

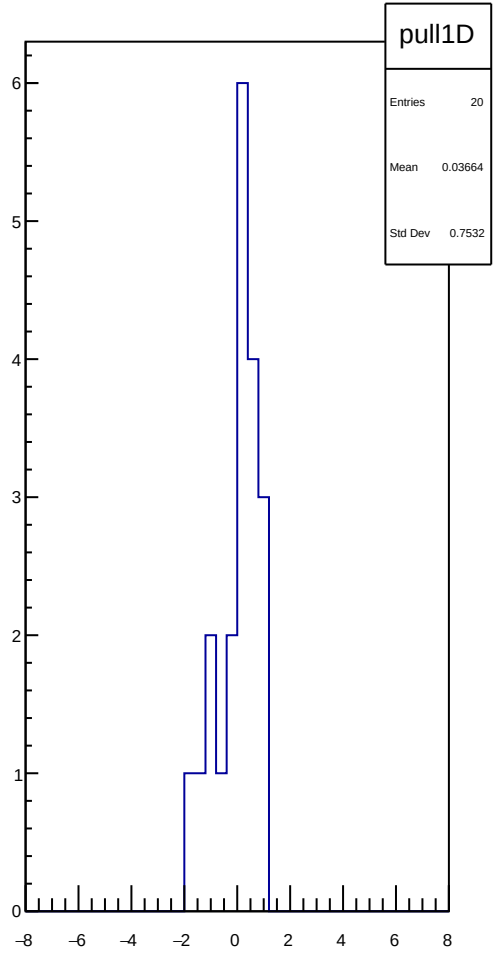

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.673 / 19
p0 −316.3 ± 7.157
−240
−260
−280
−300
−320
−340
−360
−380
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 175.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

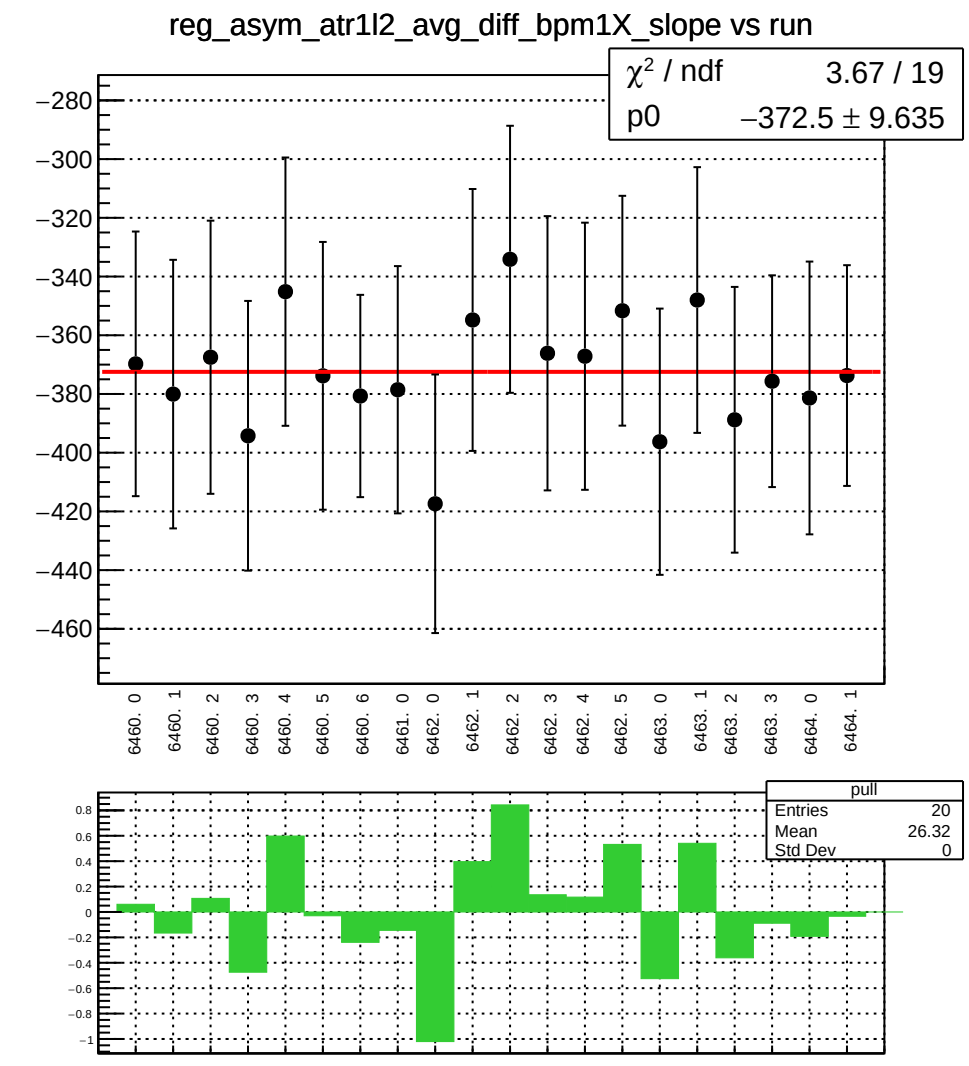

pull1D
Entries 20
Mean 0.008508
Std Dev 0.5325
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

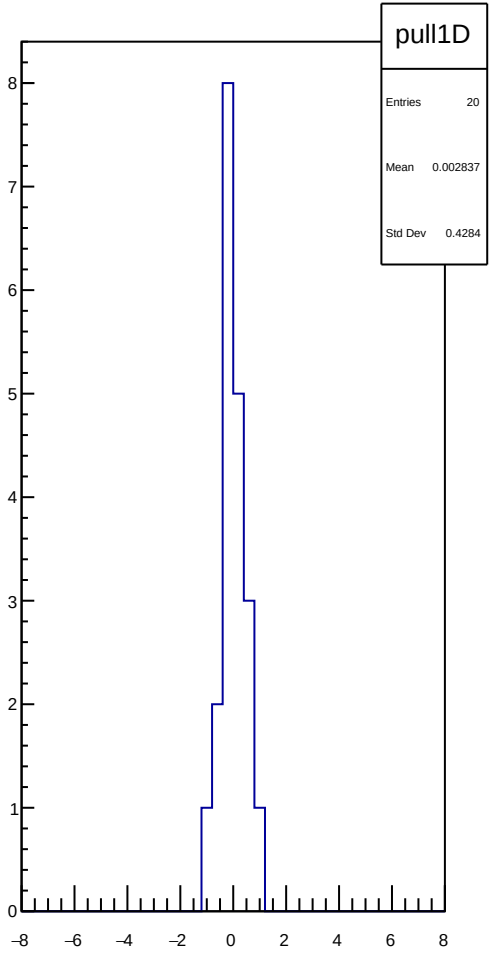

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.418 / 19
p0 −133.8 ± 8.526
−20
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −64.51
Std Dev 0
1
0.5
0
−0.5
−1

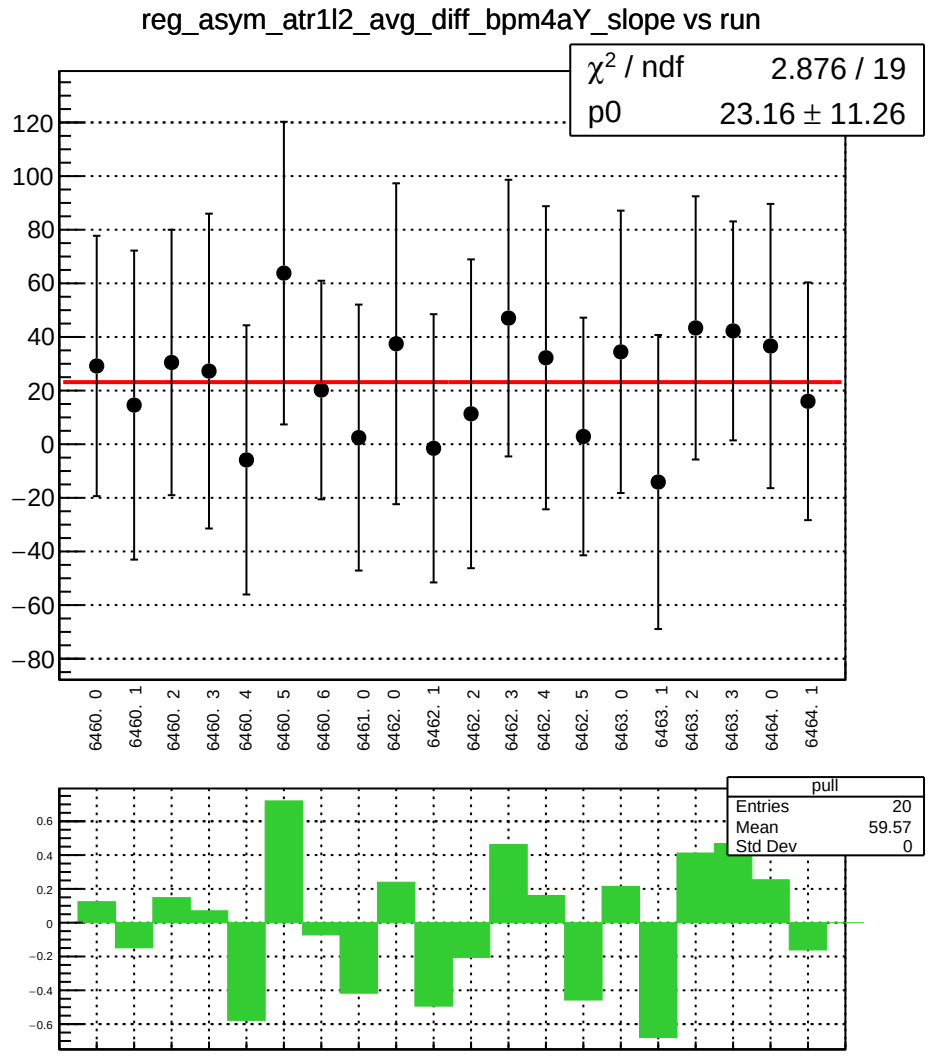

pull1D
Entries 20
Mean 0.026
Std Dev 0.5198
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

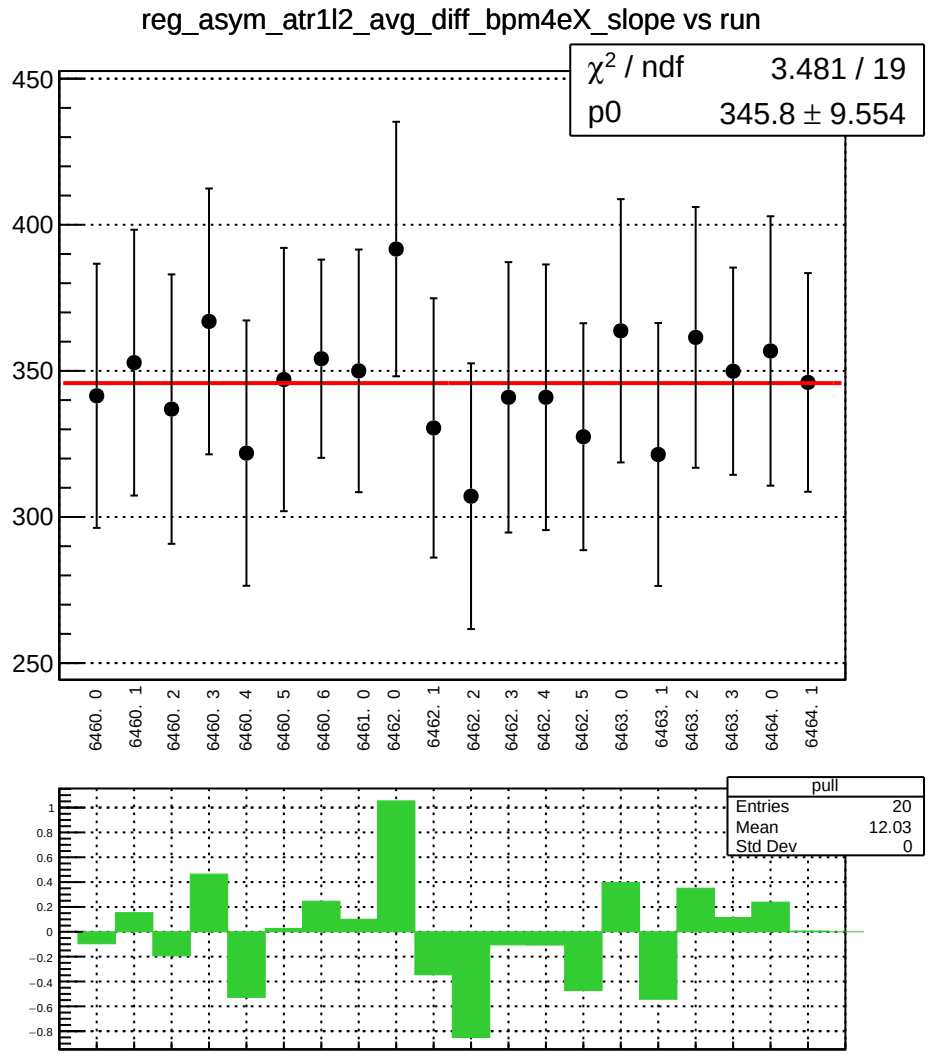

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 11.37 / 19
p0 121.6 ± 0.3567
125
124
123
122
121
120
119
118
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −78.17
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

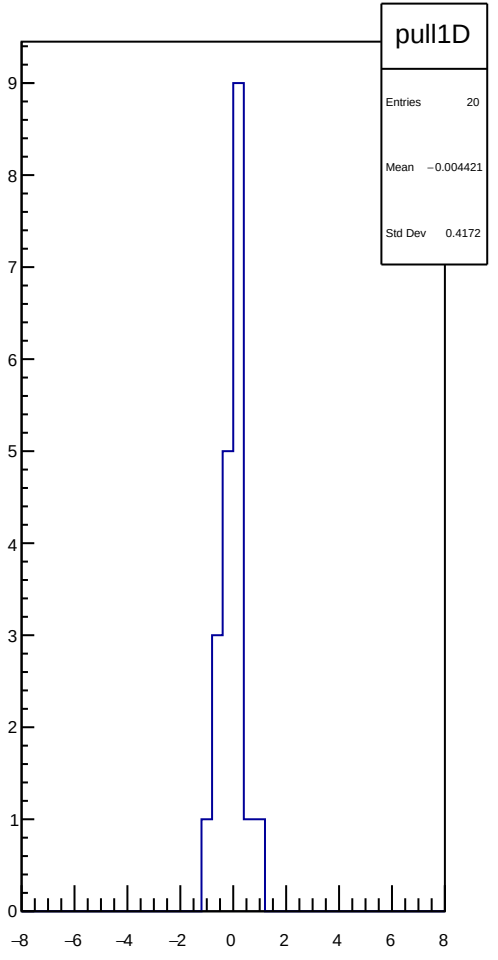

pull1D
Entries 20
Mean 0.03664
Std Dev 0.7532
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

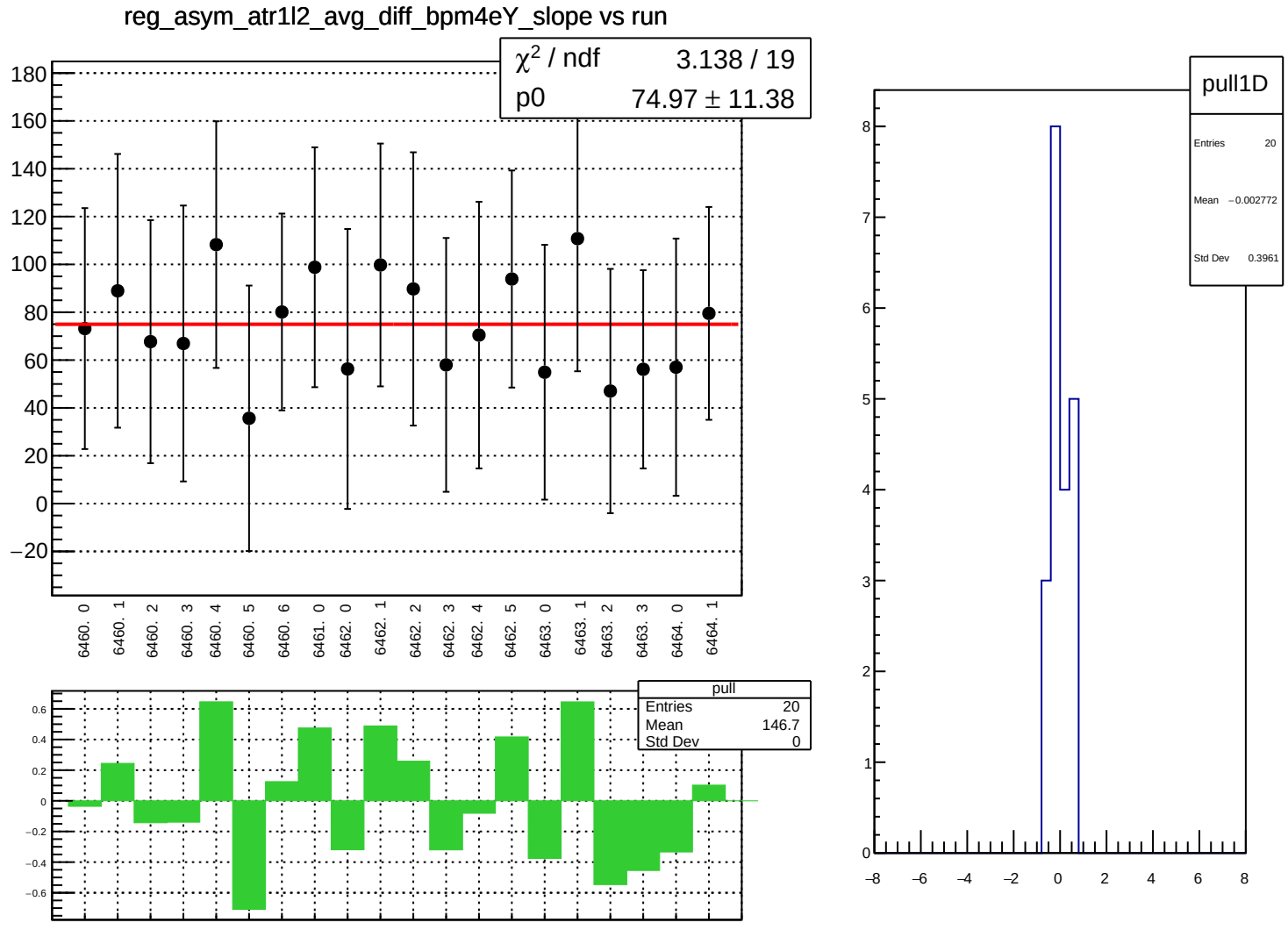

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.67 / 19
p0 −372.5 ± 9.635
−280
−300
−320
−340
−360
−380
−400
−420
−440
−460
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 26.32
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

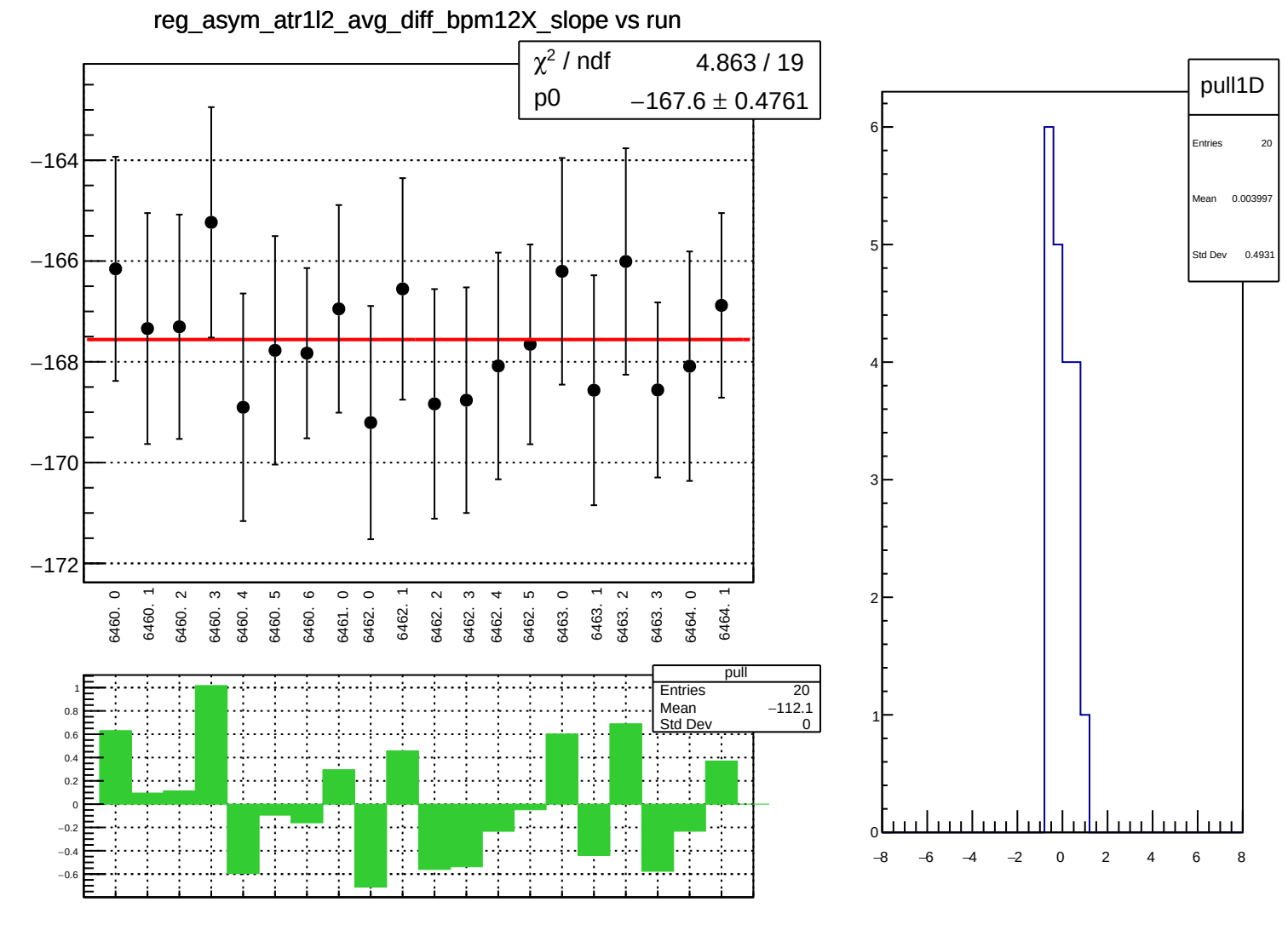

pull1D
Entries 20
Mean 0.002837
Std Dev 0.4284
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

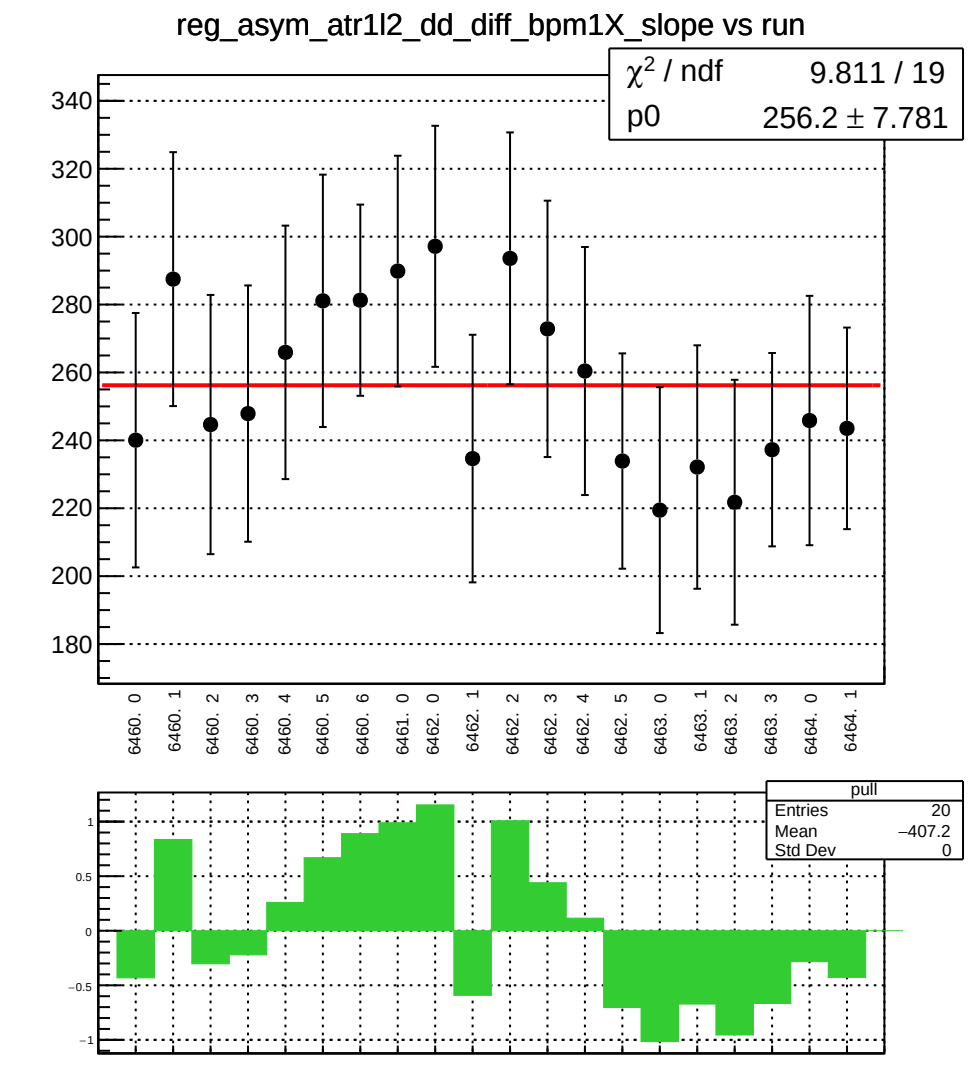

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.876 / 19
p0 23.16 ± 11.26
120
100
80
60
40
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 59.57
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.003098
Std Dev 0.3792
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

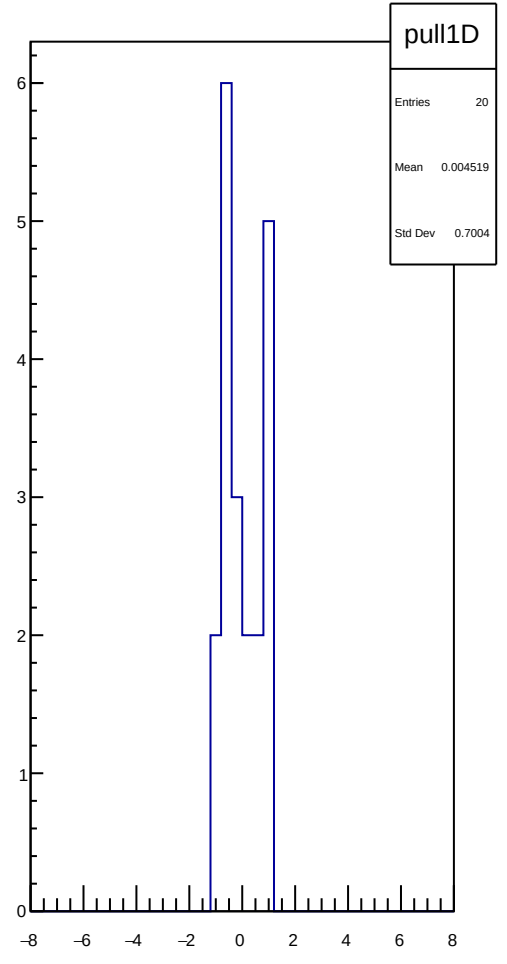

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.481 / 19
p0 345.8 ± 9.554
450
400
350
300
250
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.03
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

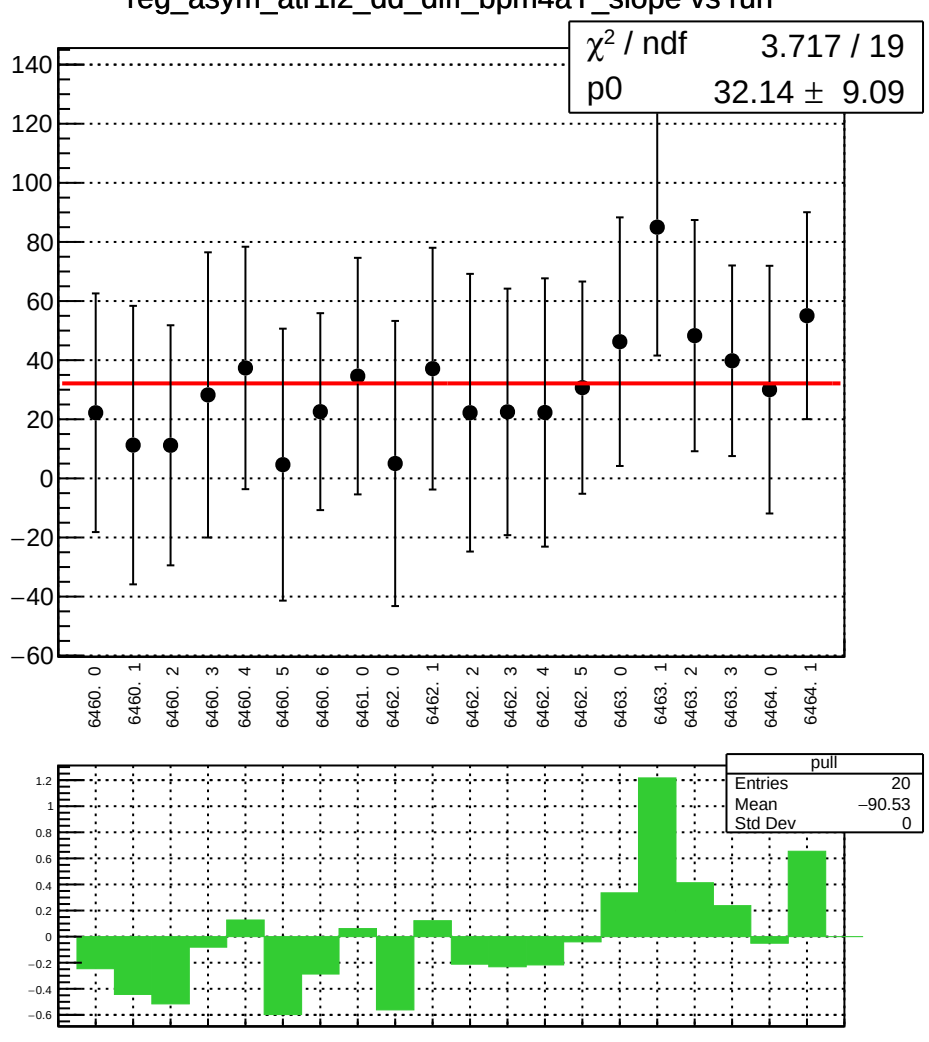

pull1D
Entries 20
Mean −0.004421
Std Dev 0.4172
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

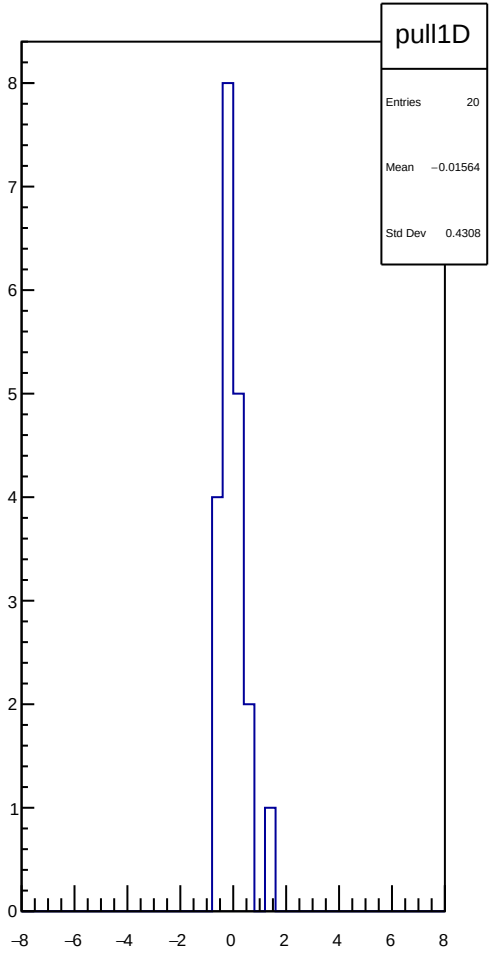

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.138 / 19
p0 74.97 ± 11.38
180
160
140
120
100
80
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 146.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.002772
Std Dev 0.3961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

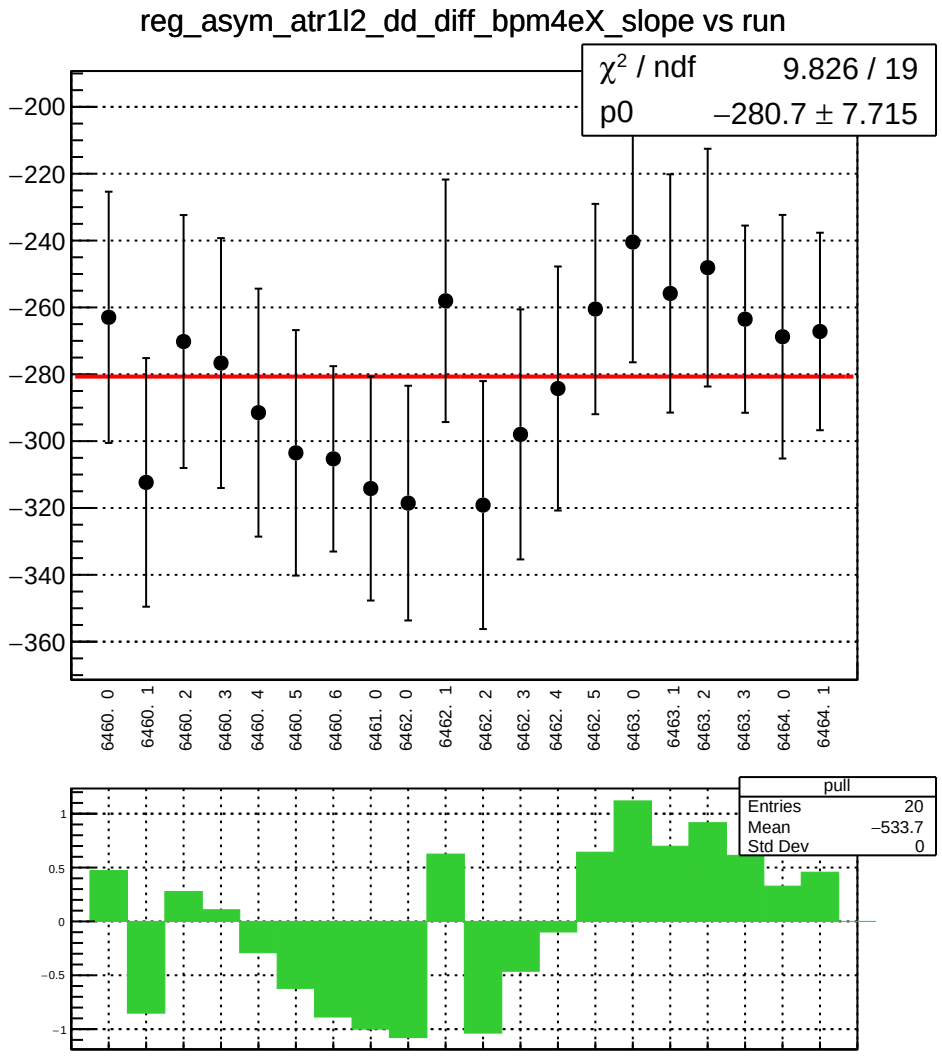

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 4.863 / 19
p0 −167.6 ± 0.4761
−164
−166
−168
−170
−172
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −112.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.003997
Std Dev 0.4931
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

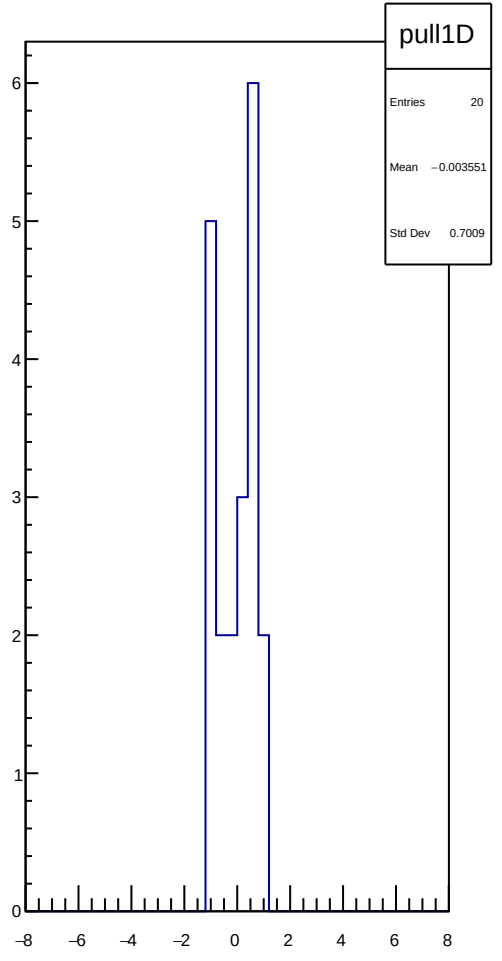

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.811 / 19
p0 256.2 ± 7.781
340
320
300
280
260
240
220
200
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −407.2
Std Dev 0
1
0.5
0
−0.5
−1

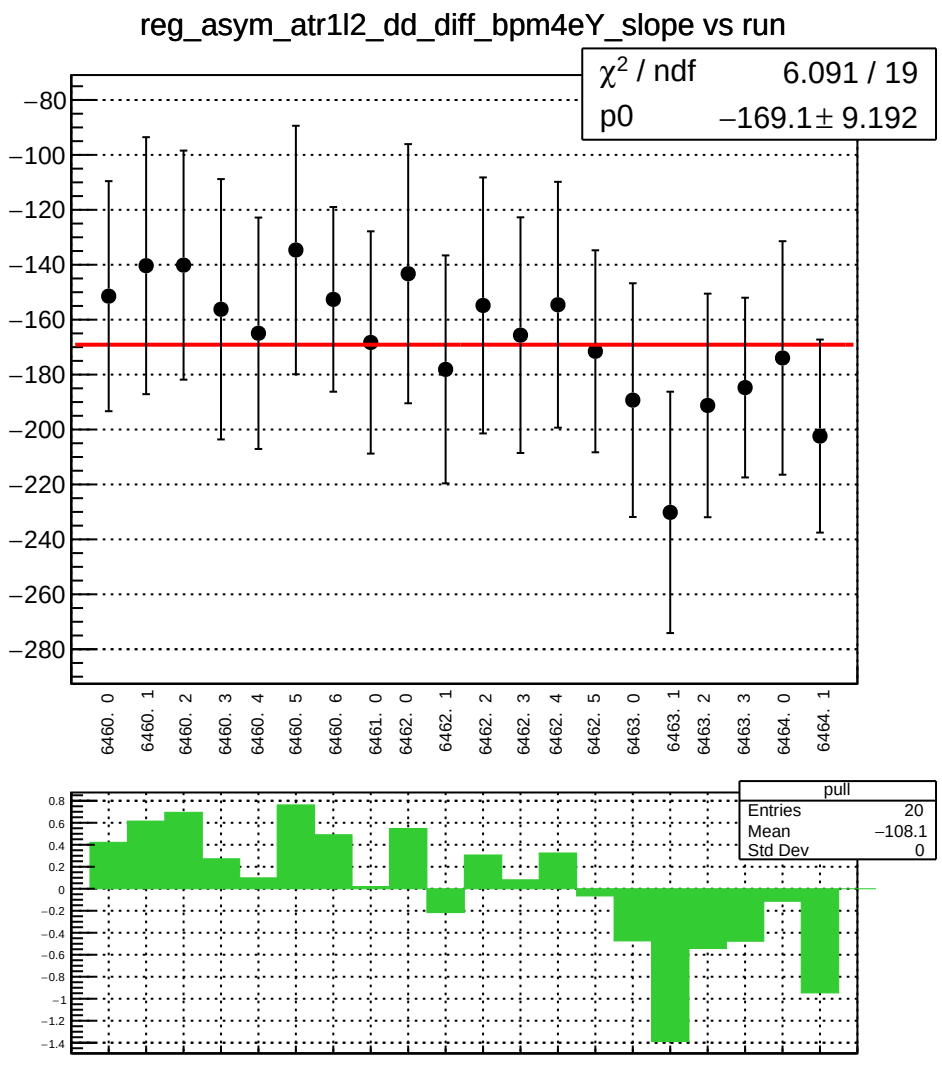

pull1D
Entries 20
Mean 0.004519
Std Dev 0.7004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

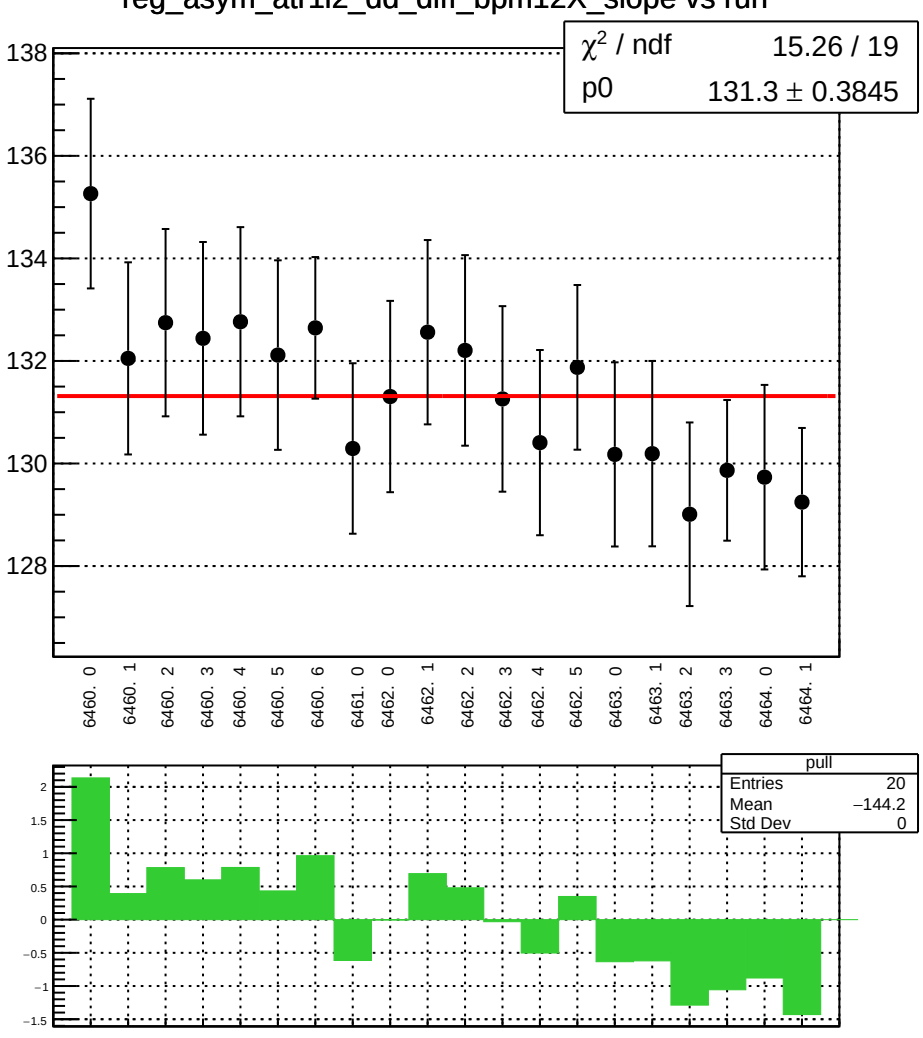

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.717 / 19
p0 32.14 ± 9.09
140
120
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −90.53
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

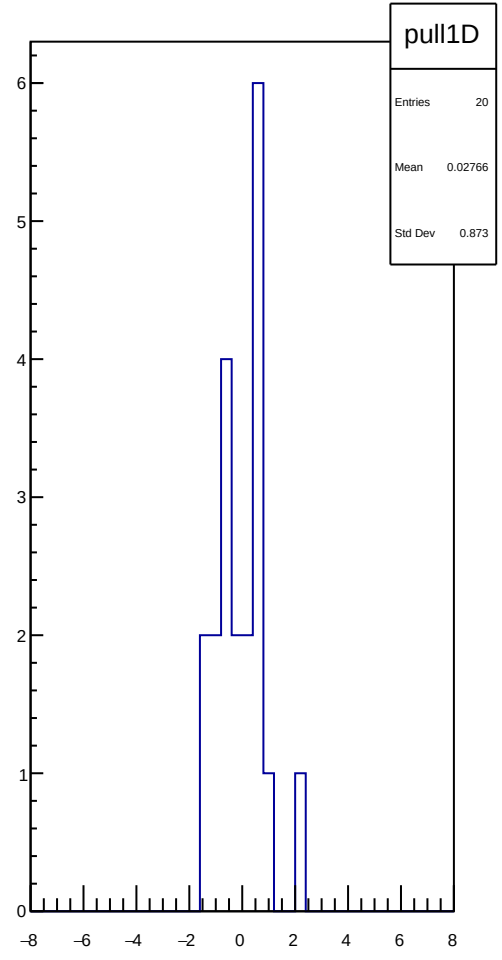

pull1D
Entries 20
Mean −0.01564
Std Dev 0.4308
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

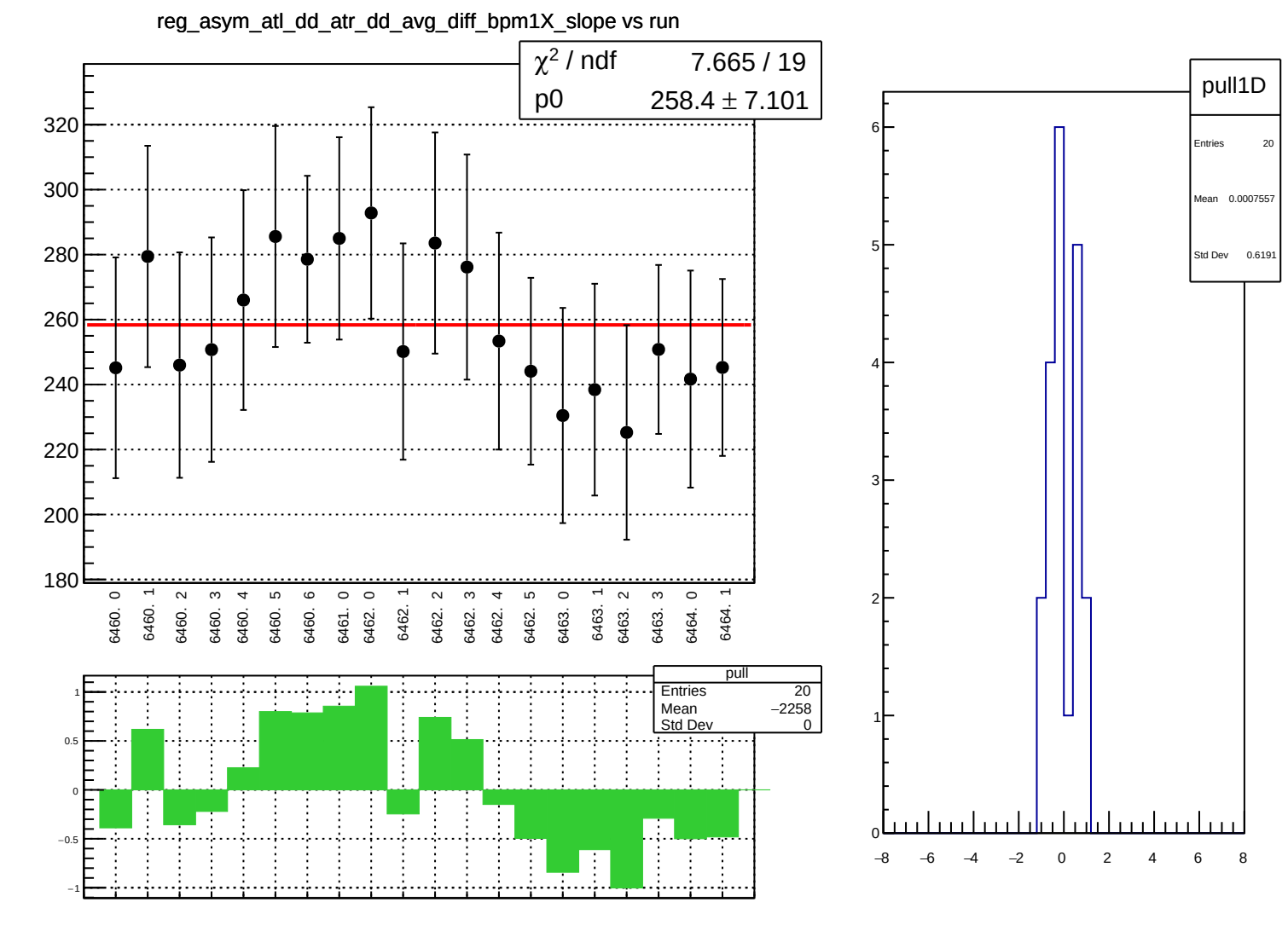

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.826 / 19
p0 −280.7 ± 7.715
−200
−220
−240
−260
−280
−300
−320
−340
−360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −533.7
Std Dev 0
1
0.5
0
−0.5
−1

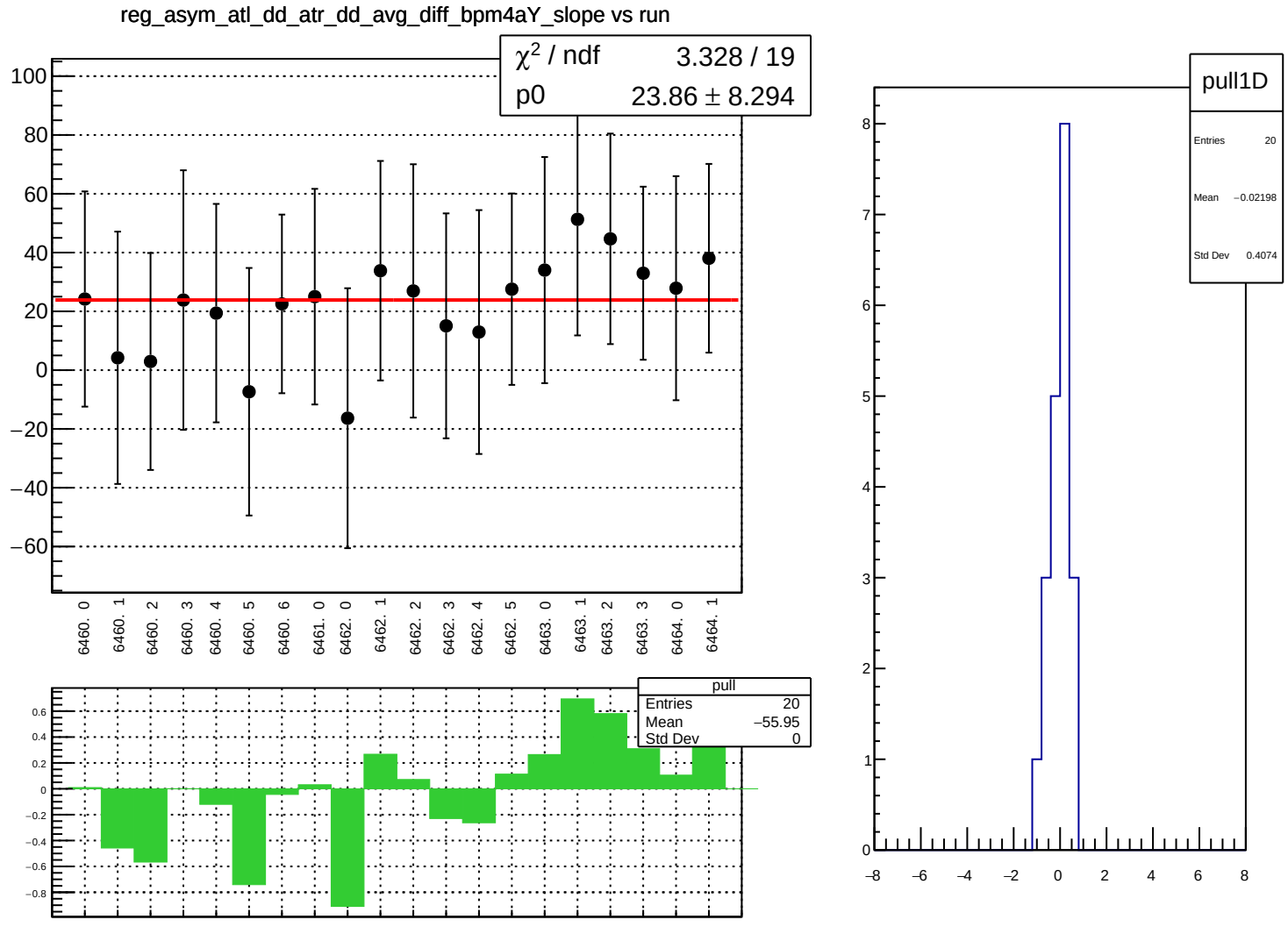

pull1D
Entries 20
Mean −0.003551
Std Dev 0.7009
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

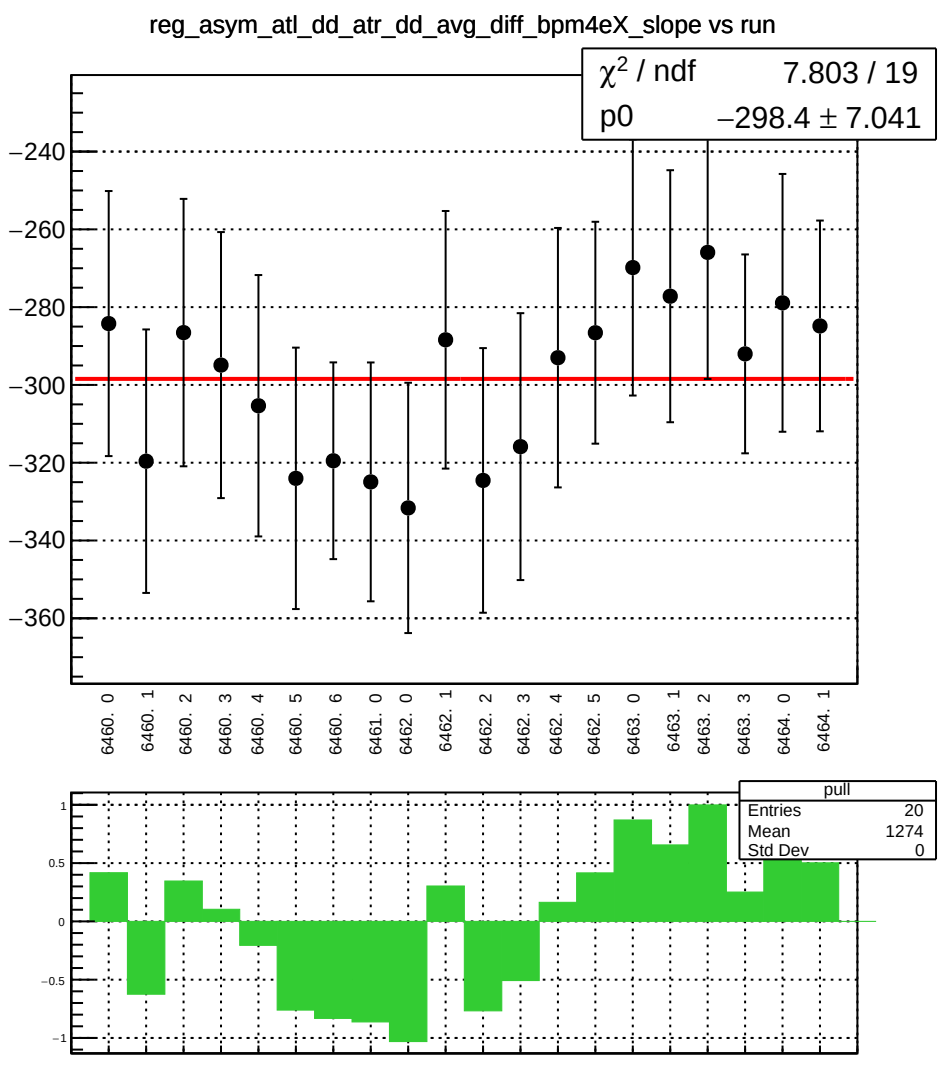

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.091 / 19
p0 −169.1± 9.192
−80
−100
−120
−140
−160
−180
−200
−220
−240
−260
−280
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −108.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 20
Mean 0.02061
Std Dev 0.5515
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

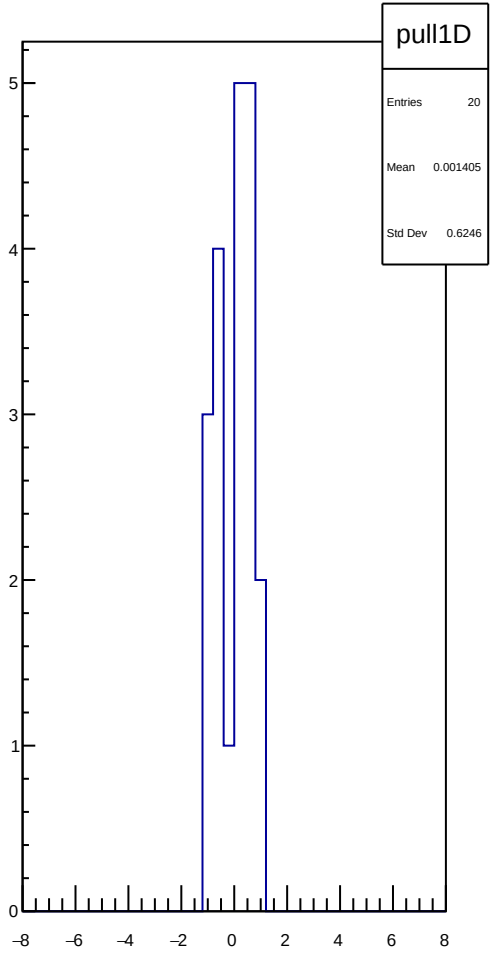

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.26 / 19
p0 131.3 ± 0.3845
138
136
134
132
130
128
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −144.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

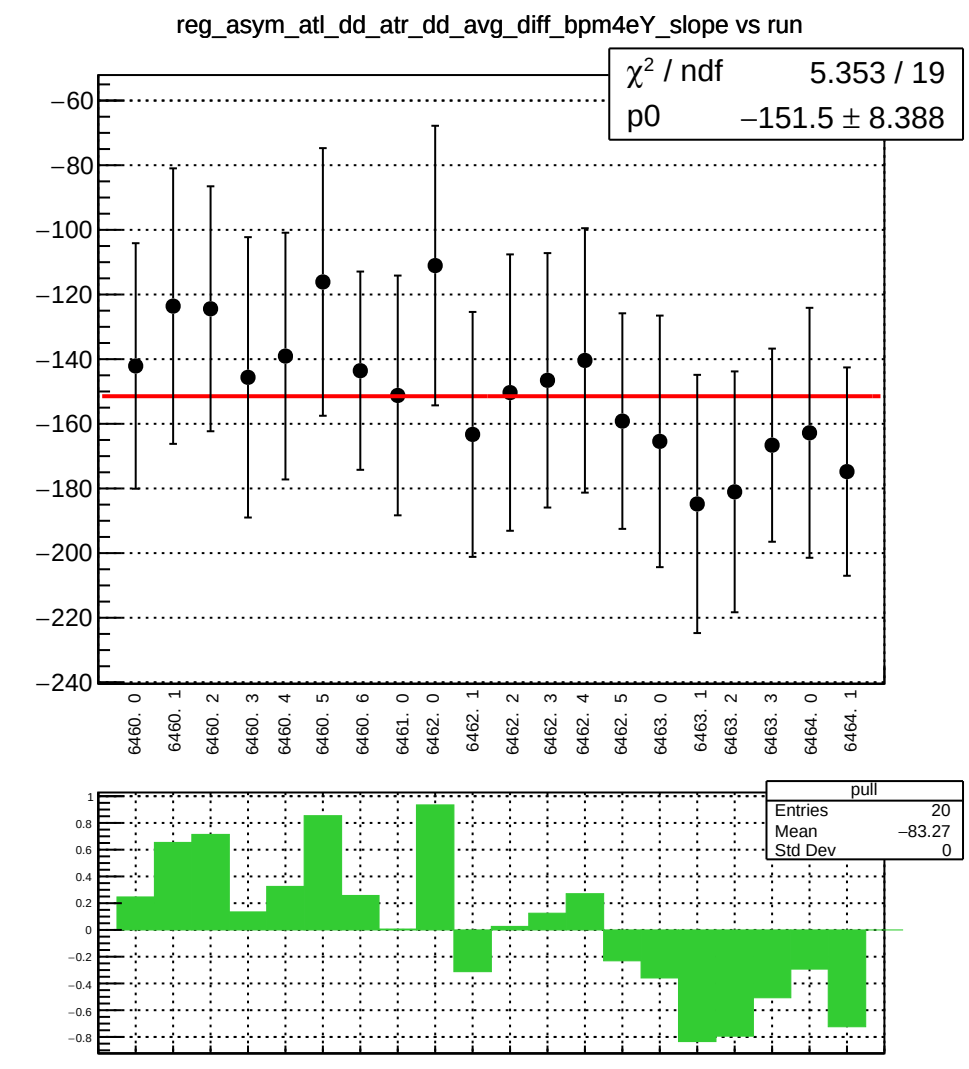

pull1D
Entries 20
Mean 0.02766
Std Dev 0.873
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

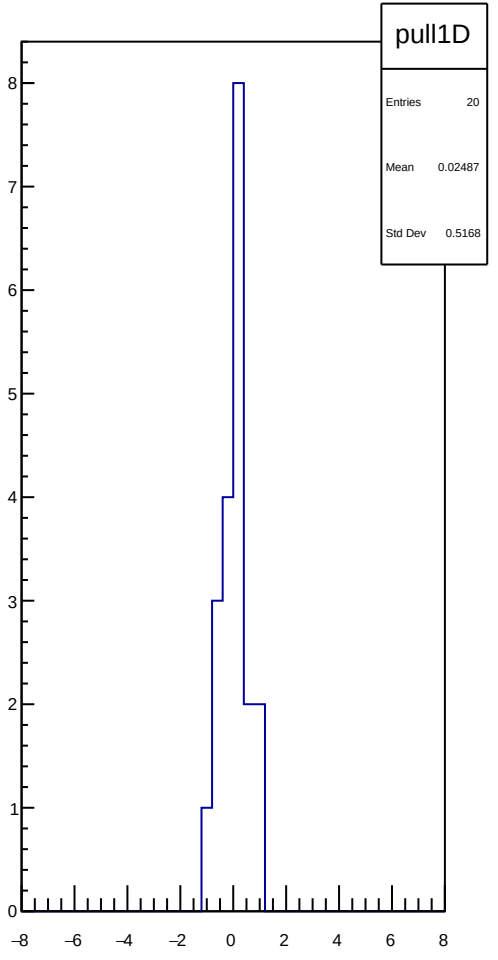

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 7.665 / 19
p0 258.4 ± 7.101
320
300
280
260
240
220
200
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2258
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.0007557
Std Dev 0.6191
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

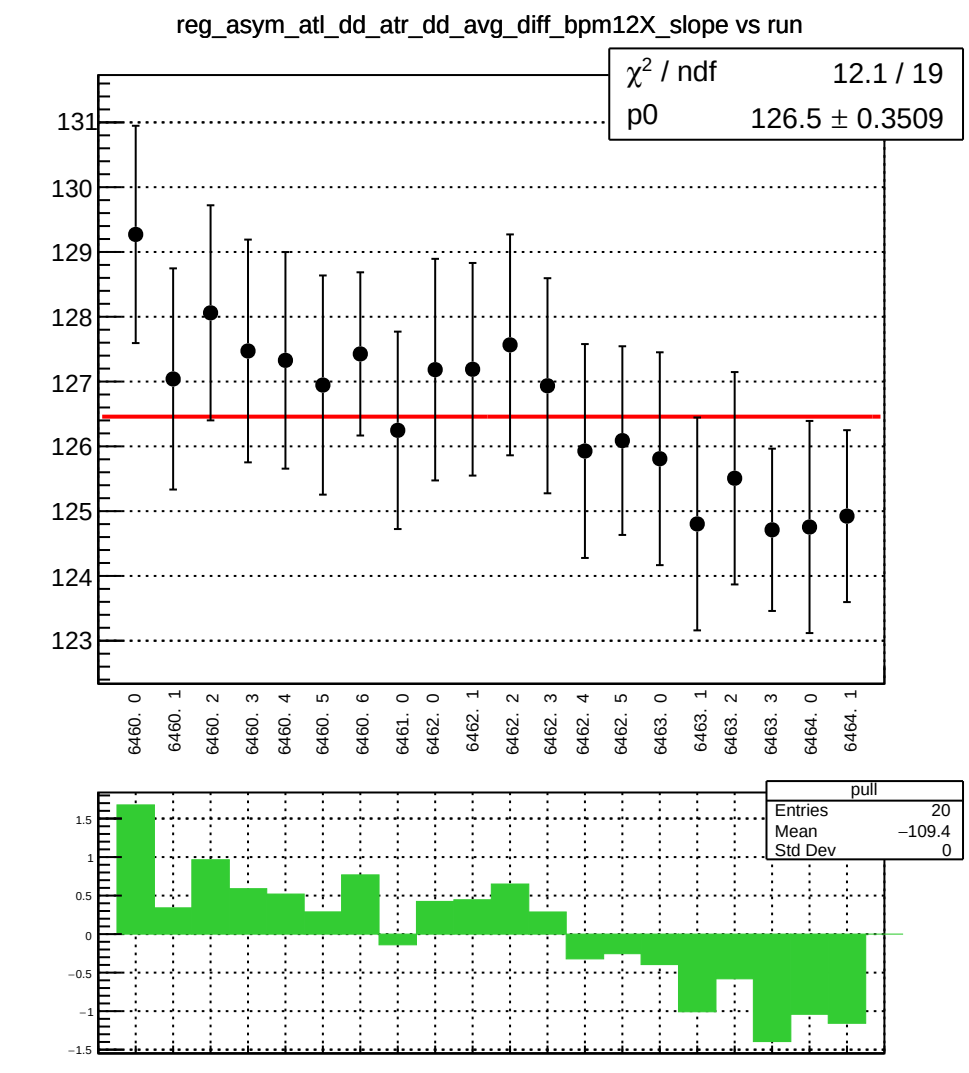

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.328 / 19
p0 23.86 ± 8.294
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −55.95
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.02198
Std Dev 0.4074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

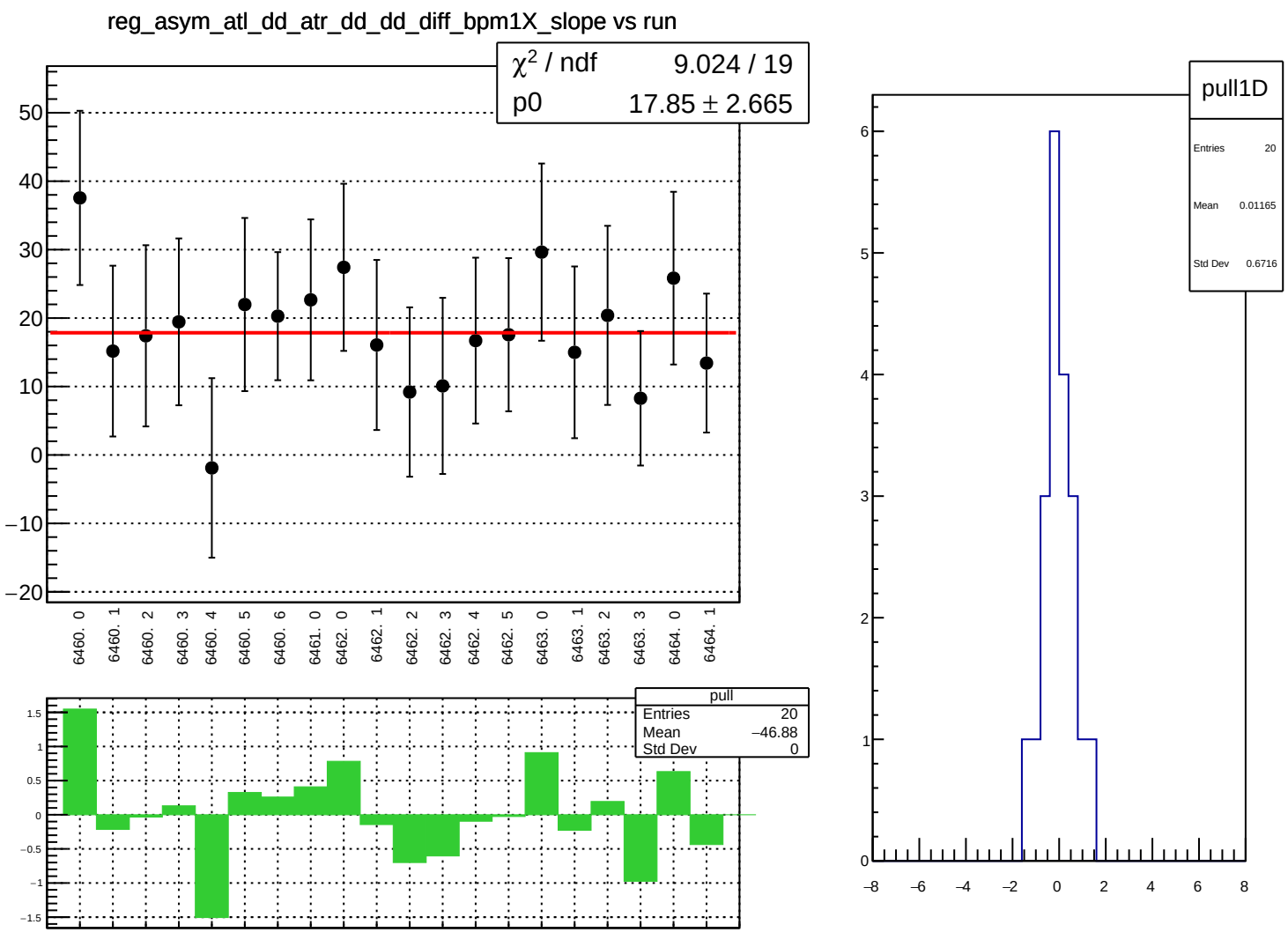

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.803 / 19
p0 −298.4 ± 7.041
−240
−260
−280
−300
−320
−340
−360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1274
Std Dev 0
1
0.5
0
−0.5
−1

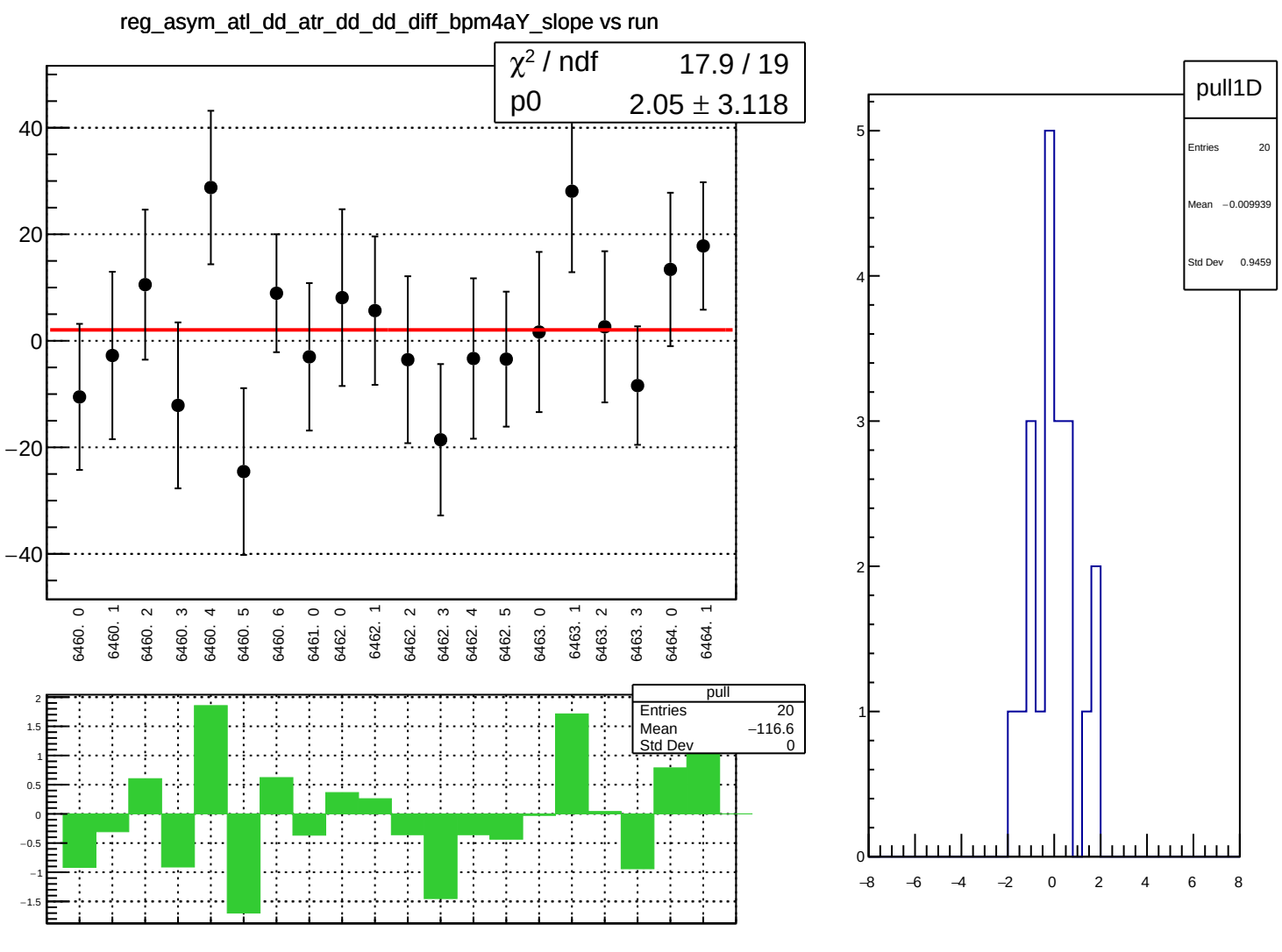

pull1D
Entries 20
Mean 0.001405
Std Dev 0.6246
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

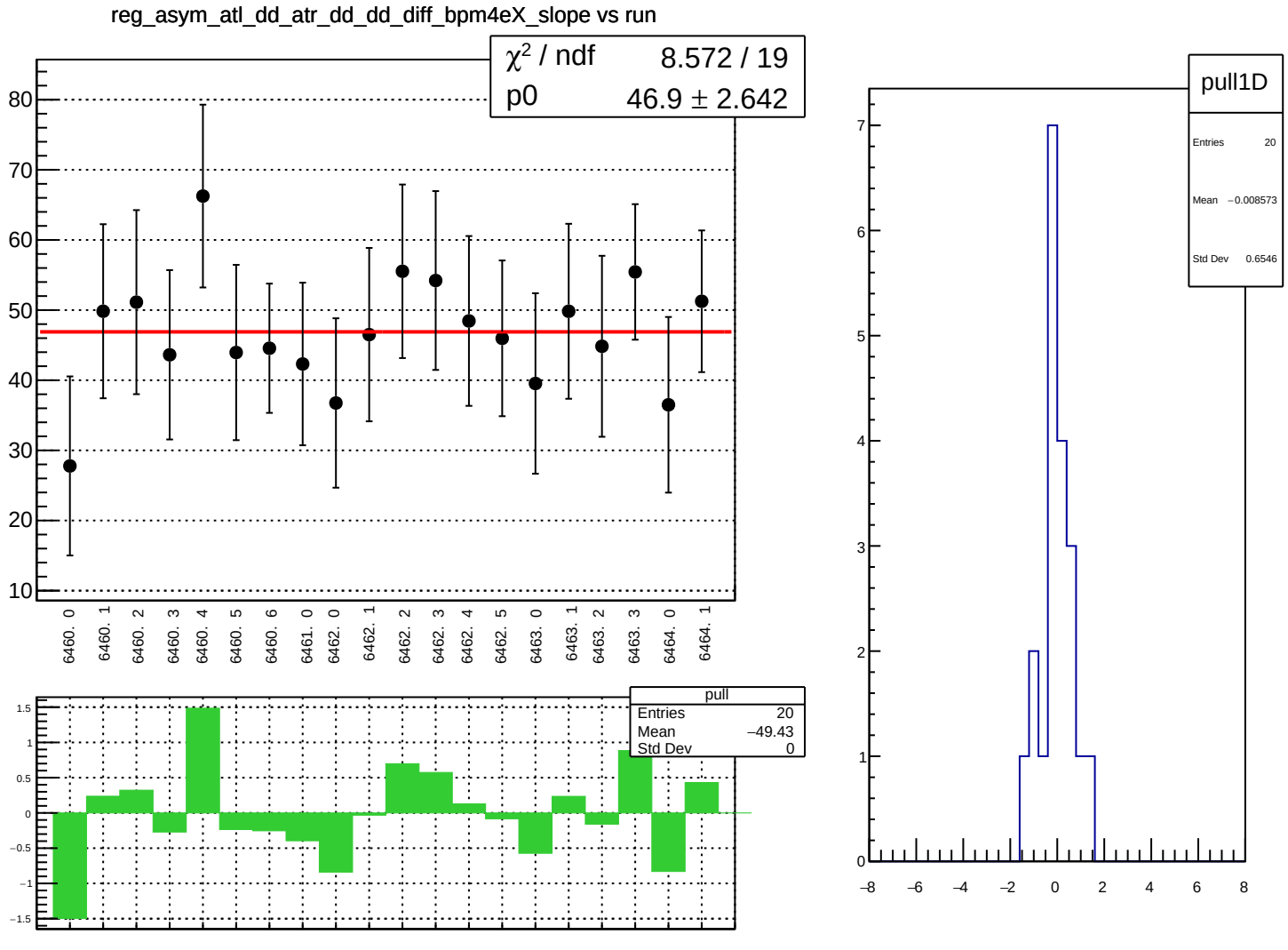

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.353 / 19
p0 −151.5 ± 8.388
−60
−80
−100
−120
−140
−160
−180
−200
−220
−240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −83.27
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

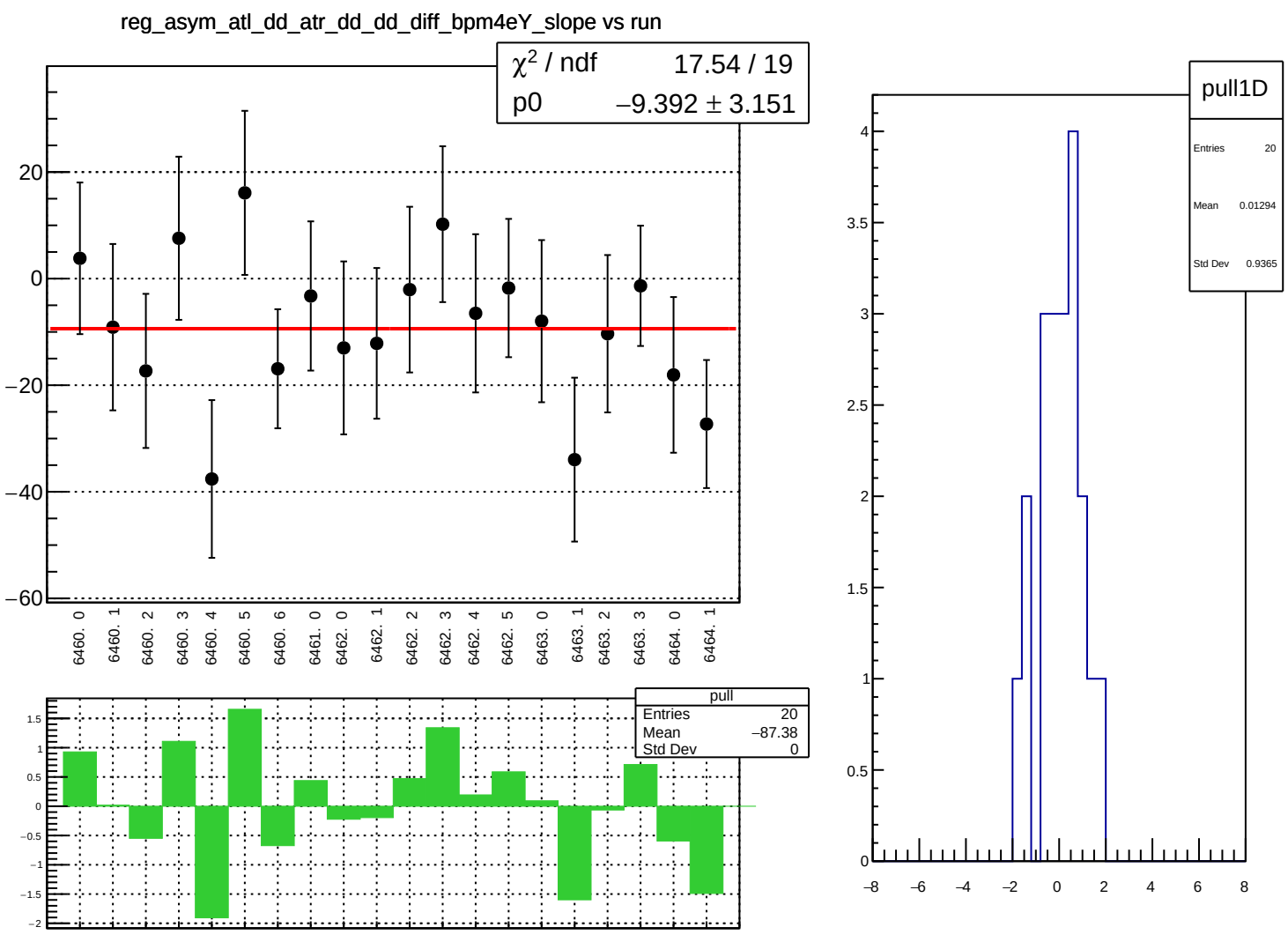

pull1D
Entries 20
Mean 0.02487
Std Dev 0.5168
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

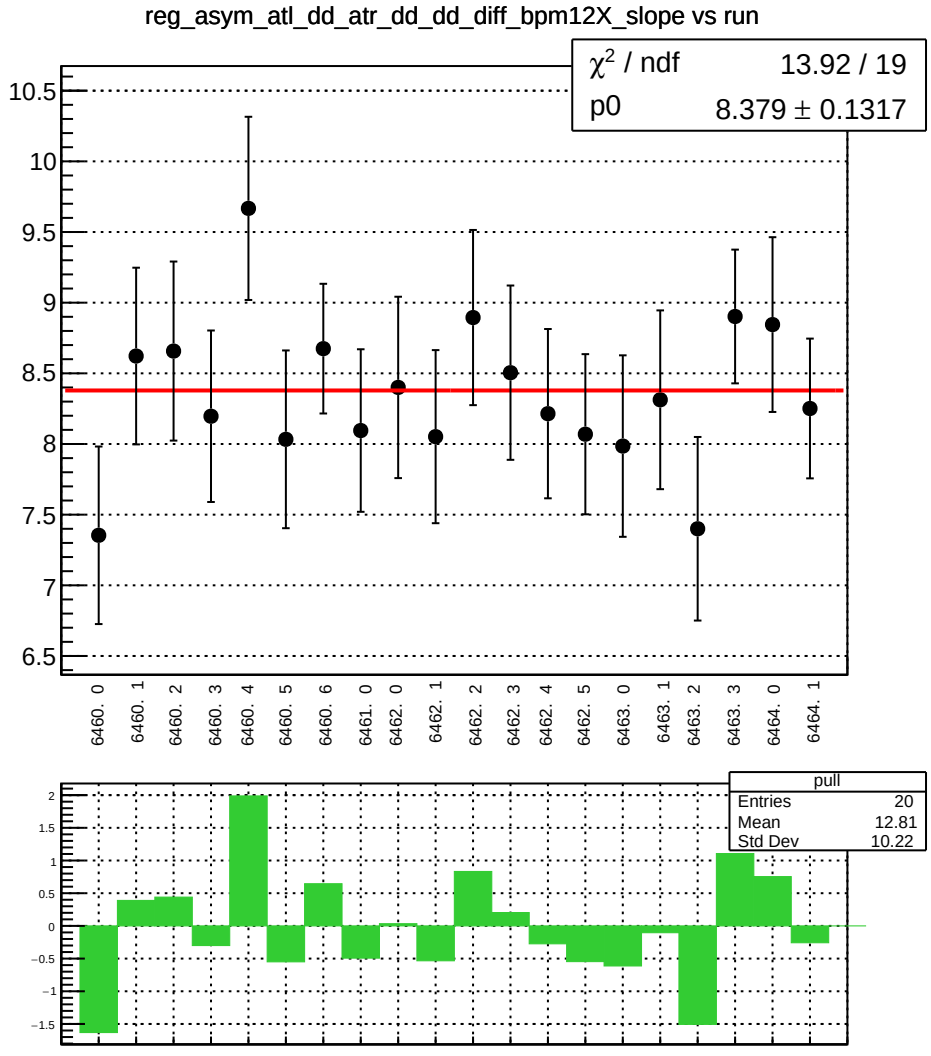

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 12.1 / 19
p0 126.5 ± 0.3509
131
130
129
128
127
126
125
124
123
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −109.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03334
Std Dev 0.7771
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

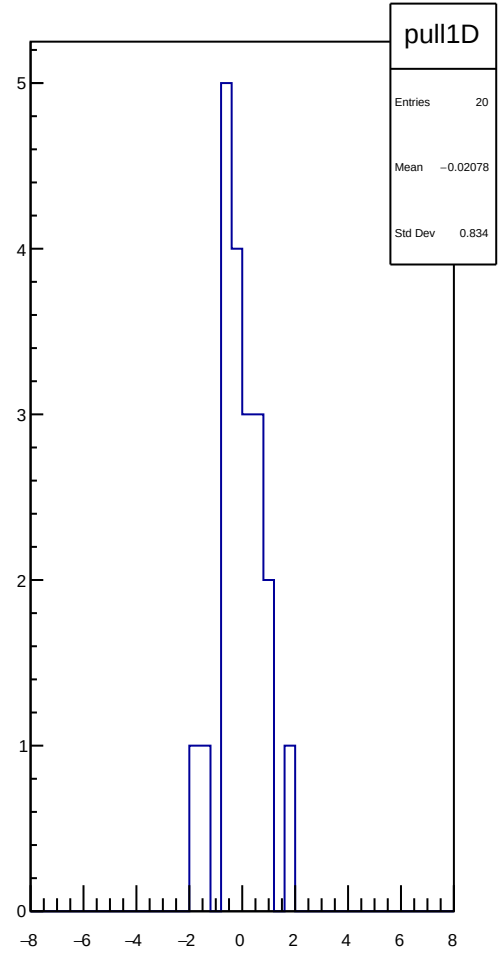

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 9.024 / 19
p0 17.85 ± 2.665
50
40
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −46.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01165
Std Dev 0.6716
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

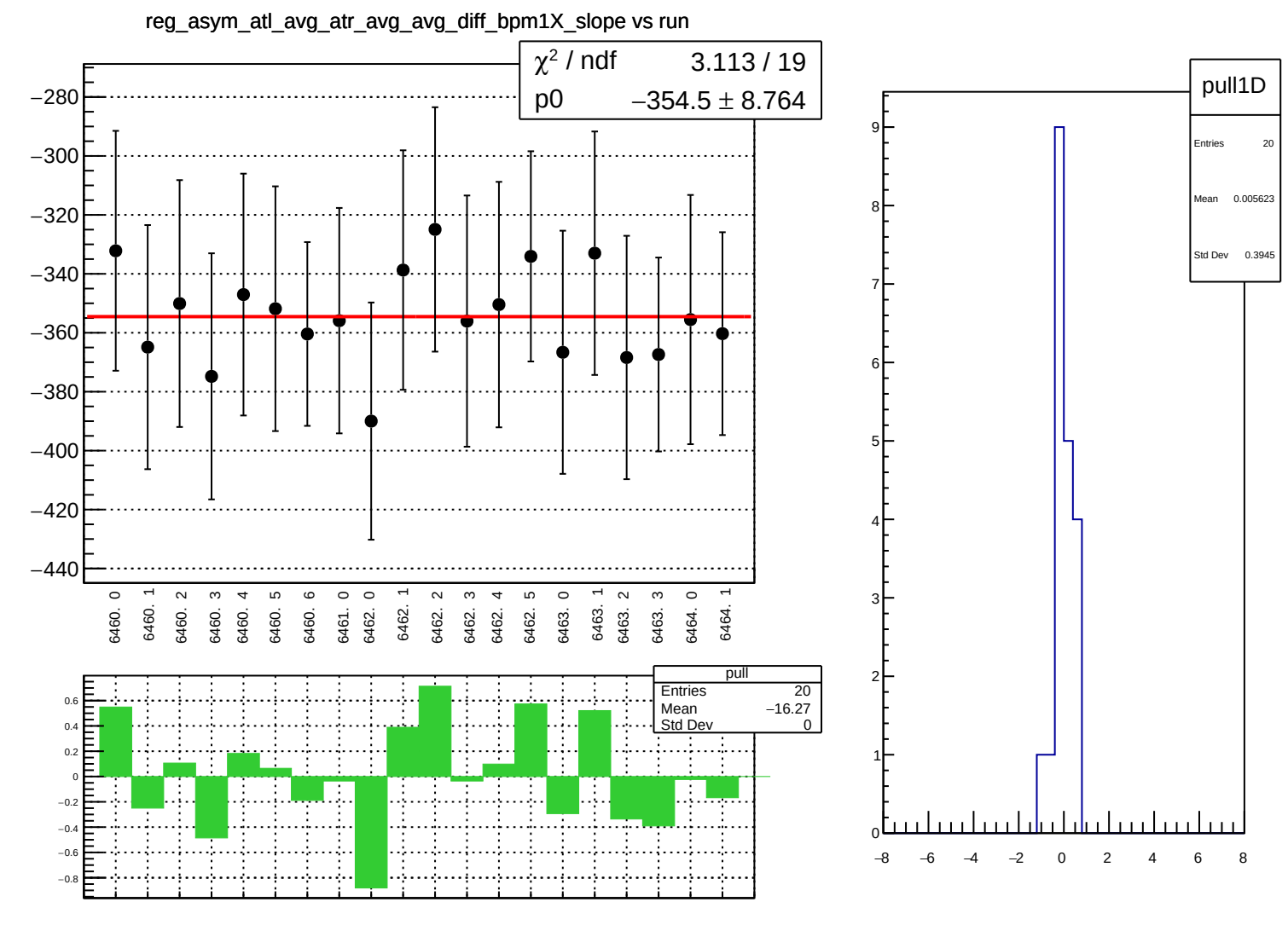

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.9 / 19
p0 2.05 ± 3.118
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −116.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.009939
Std Dev 0.9459
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

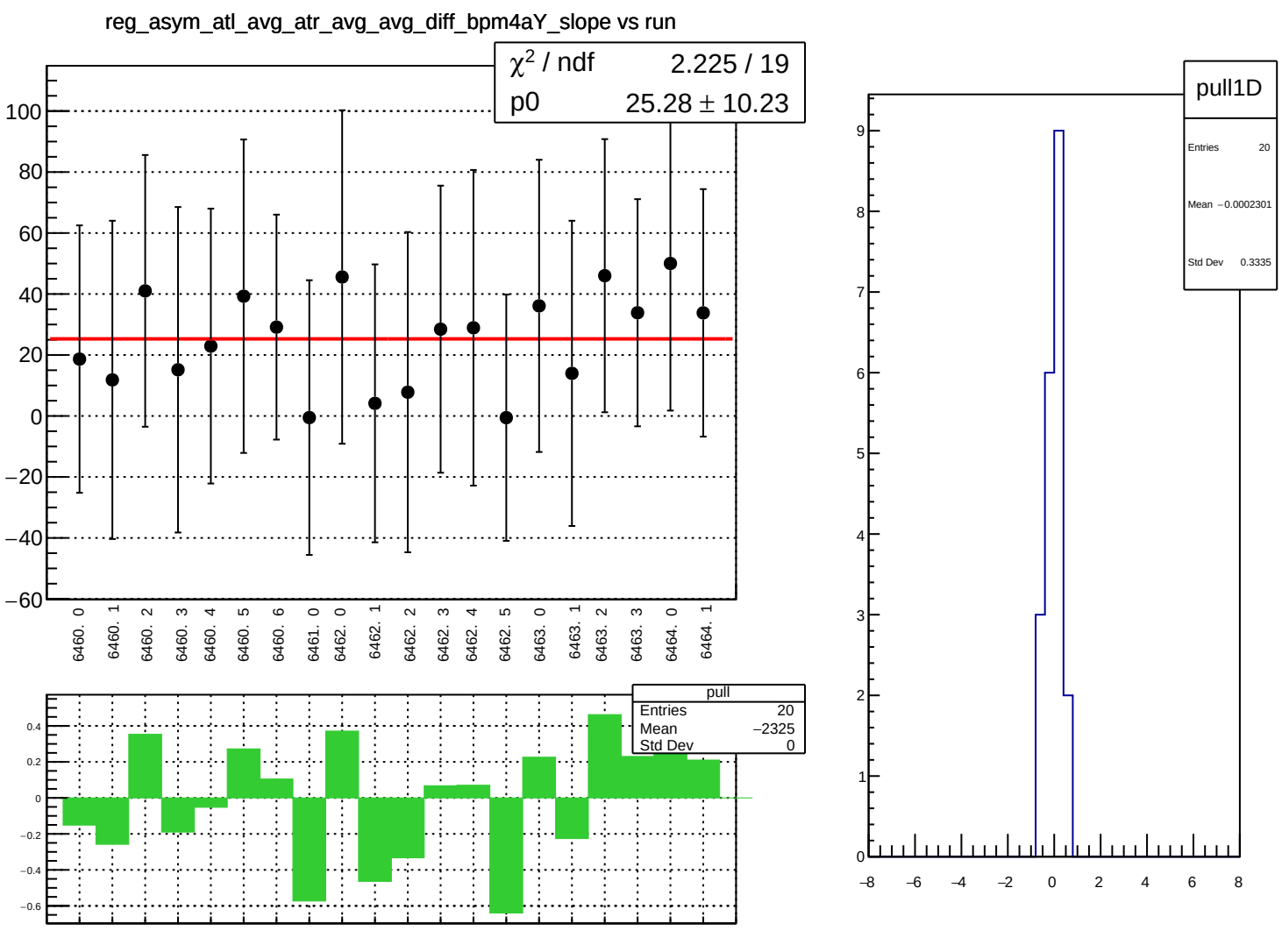

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.572 / 19
p0 46.9 ± 2.642
80
70
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.008573
Std Dev 0.6546
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

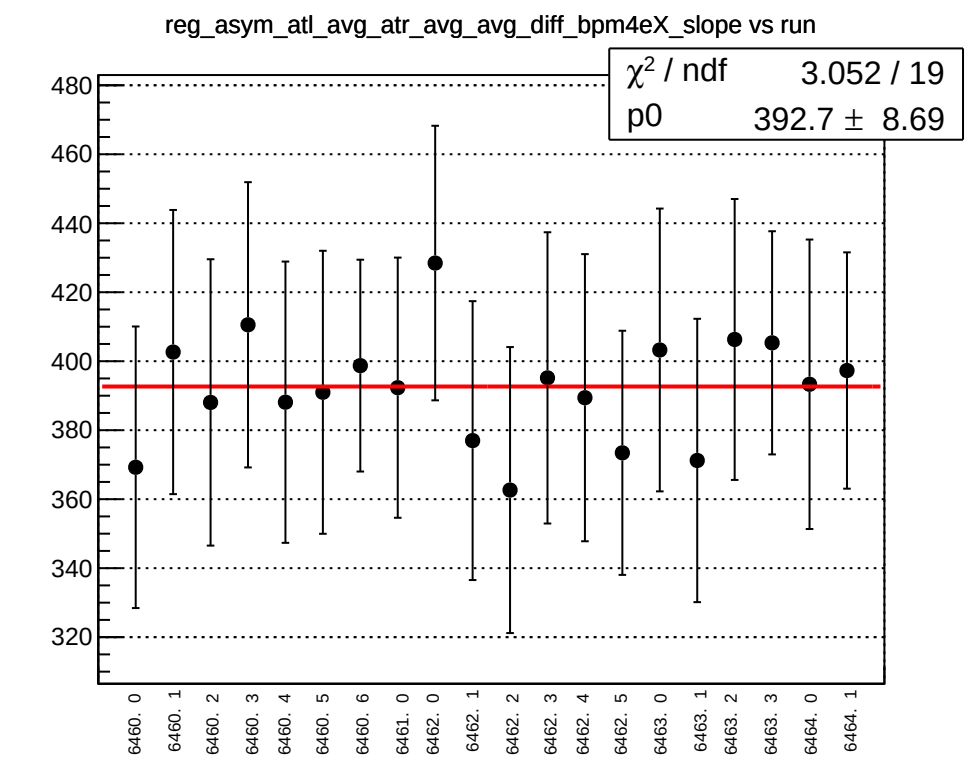

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.54 / 19
p0 −9.392 ± 3.151
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −87.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.01294
Std Dev 0.9365
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

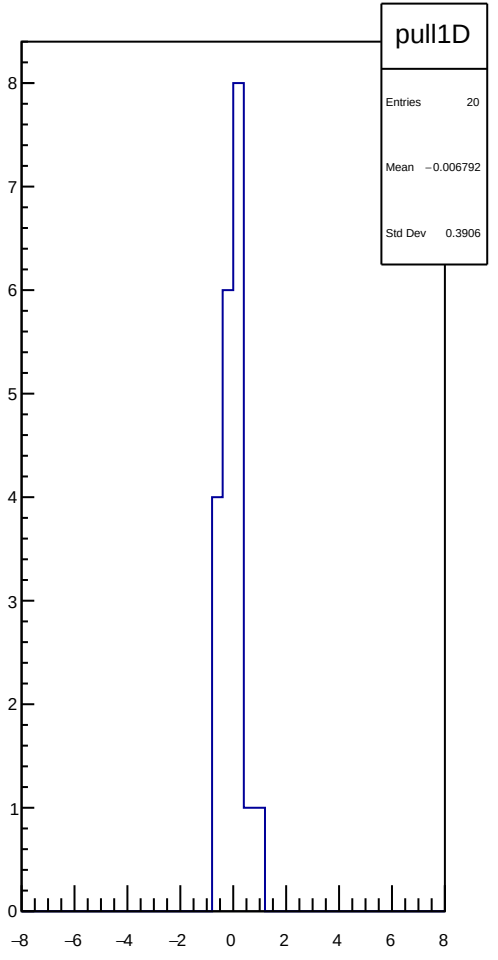

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 13.92 / 19
p0 8.379 ± 0.1317
10.5
10
9.5
9
8.5
8
7.5
7
6.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.81
Std Dev 10.22
2
1.5
1
0.5
0
−0.5
−1
−1.5

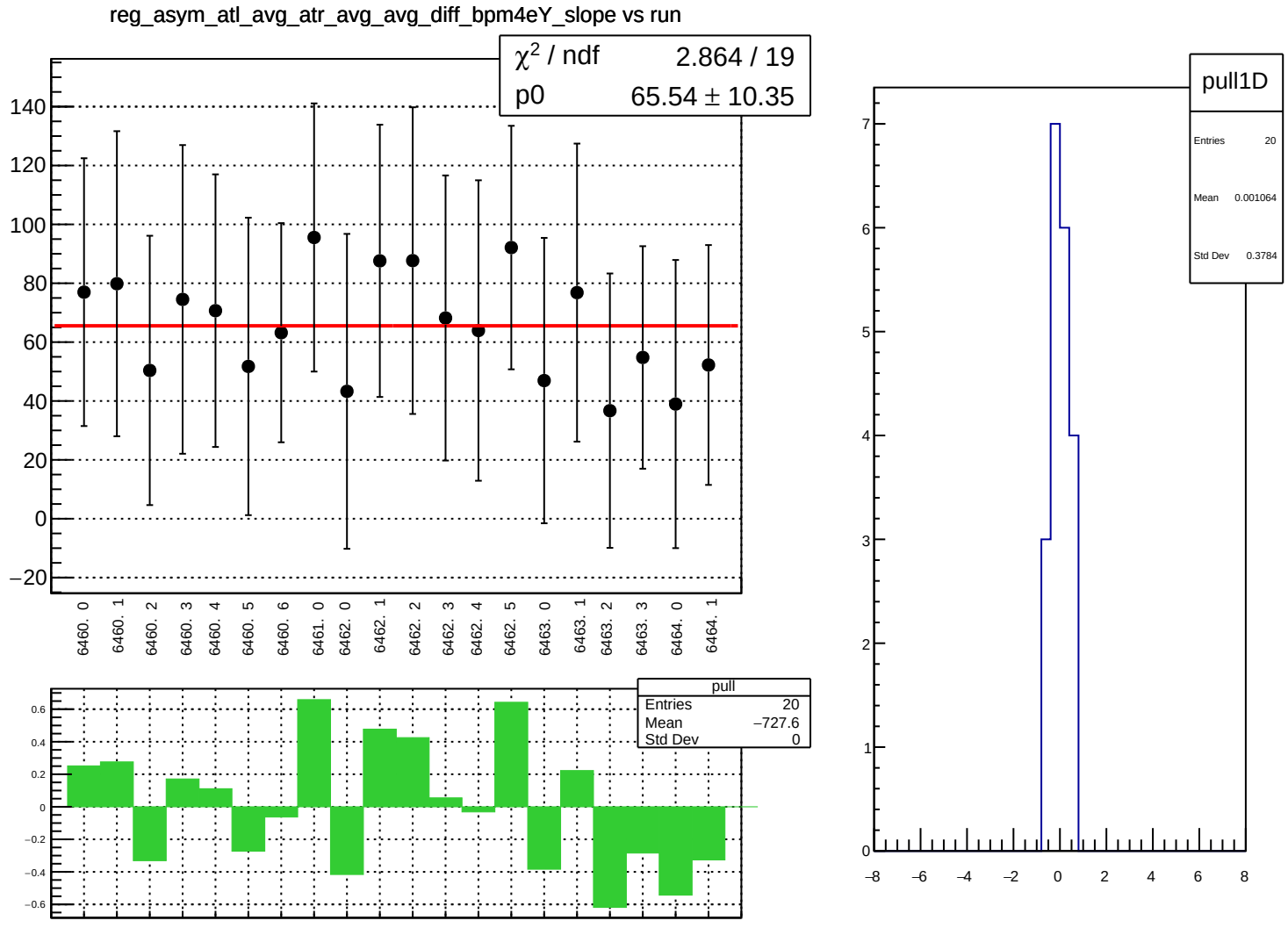

pull1D
Entries 20
Mean −0.02078
Std Dev 0.834
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

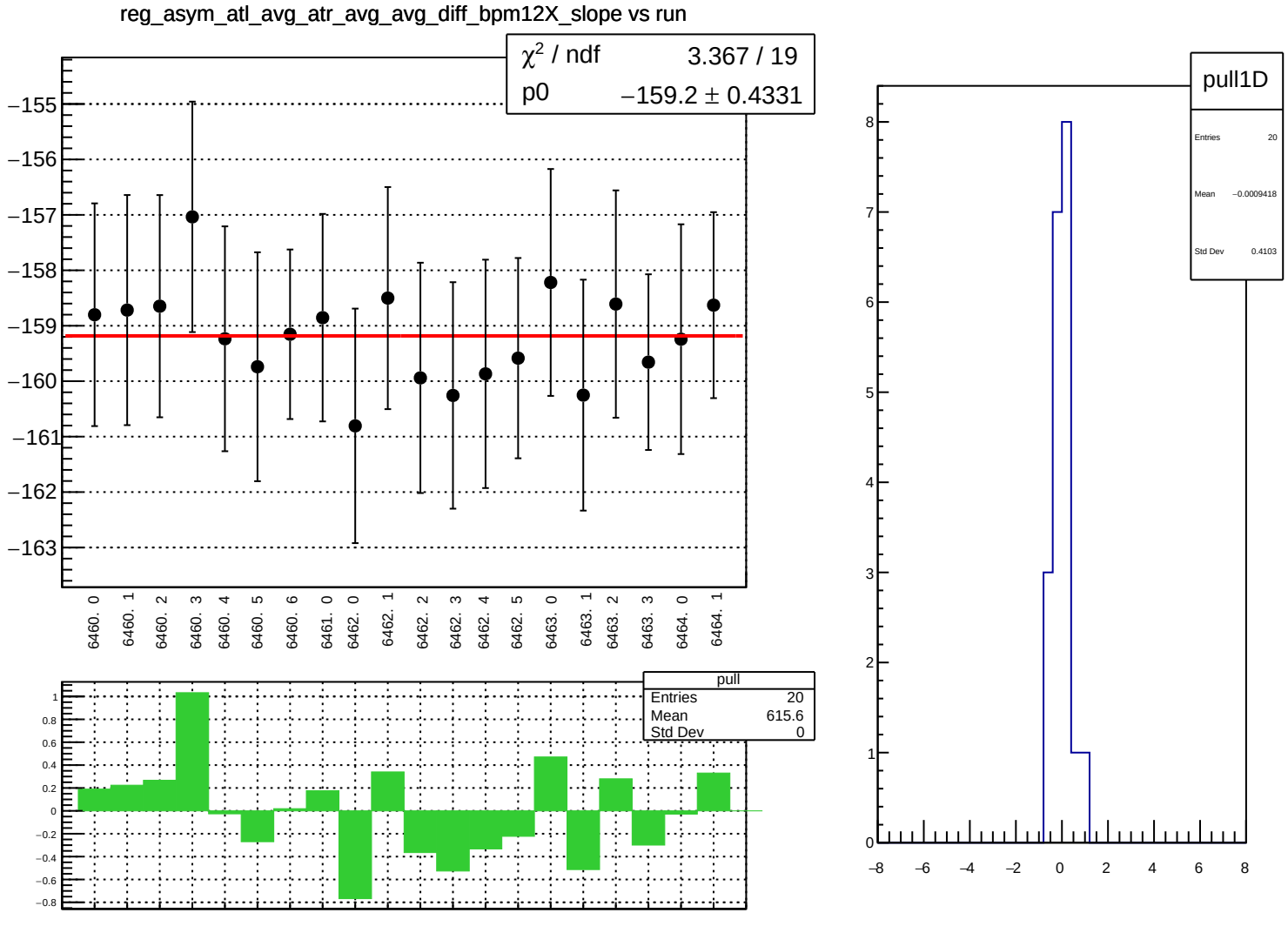

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.113 / 19
p0 −354.5 ± 8.764
−280
−300
−320
−340
−360
−380
−400
−420
−440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −16.27
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.005623
Std Dev 0.3945
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

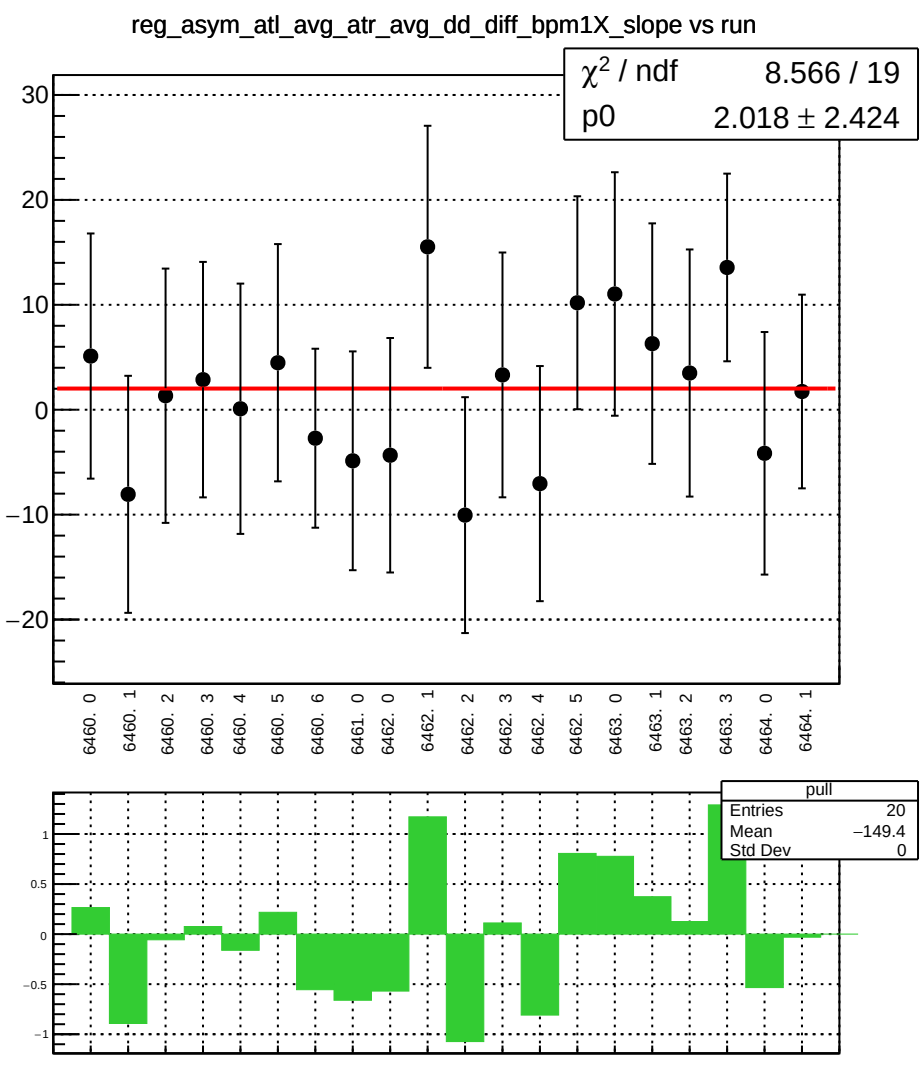

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.225 / 19
p0 25.28 ± 10.23
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2325
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.0002301
Std Dev 0.3335
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

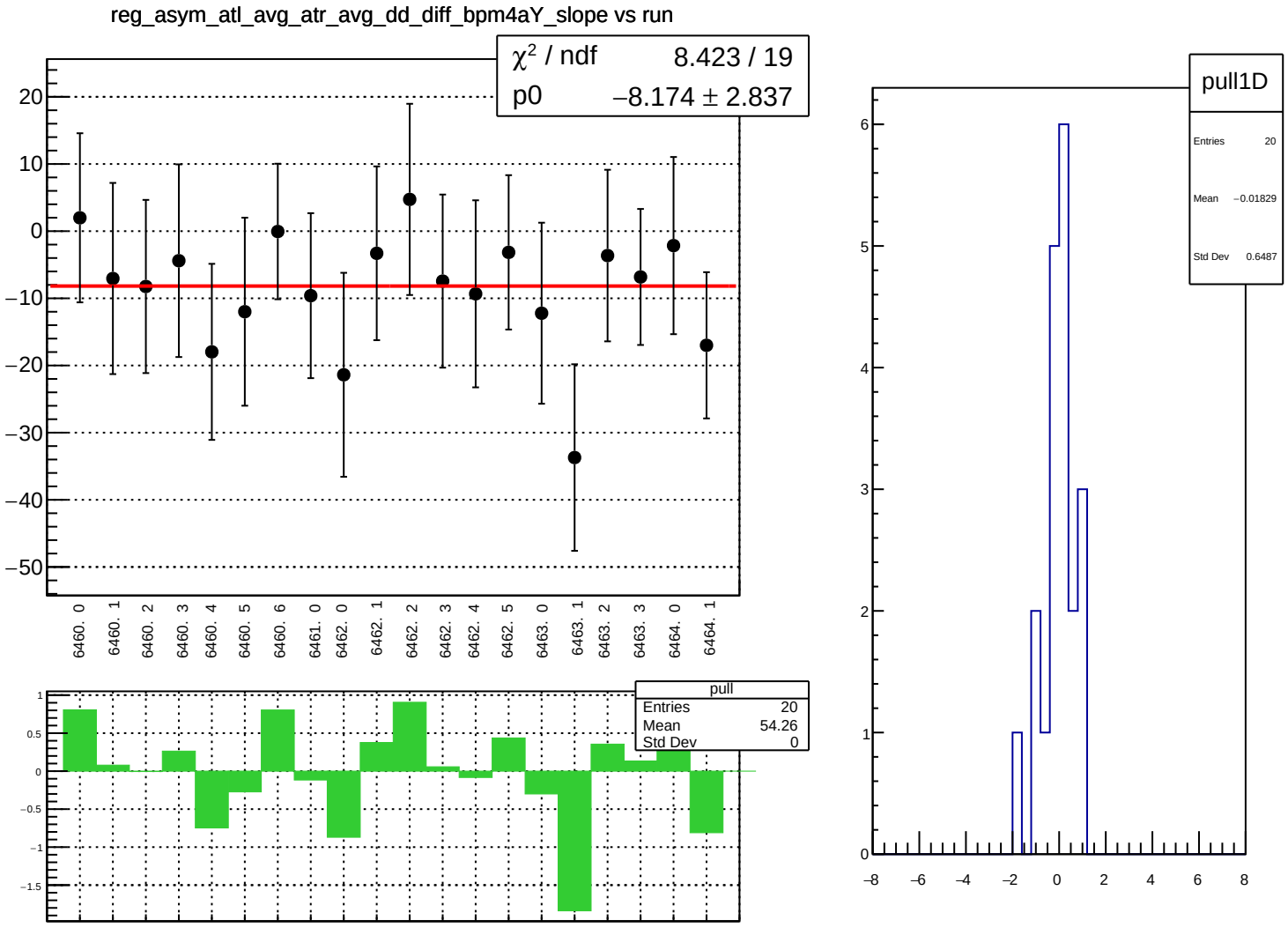

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.052 / 19
p0 392.7 ± 8.69
480
460
440
420
400
380
360
340
320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −10.88
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

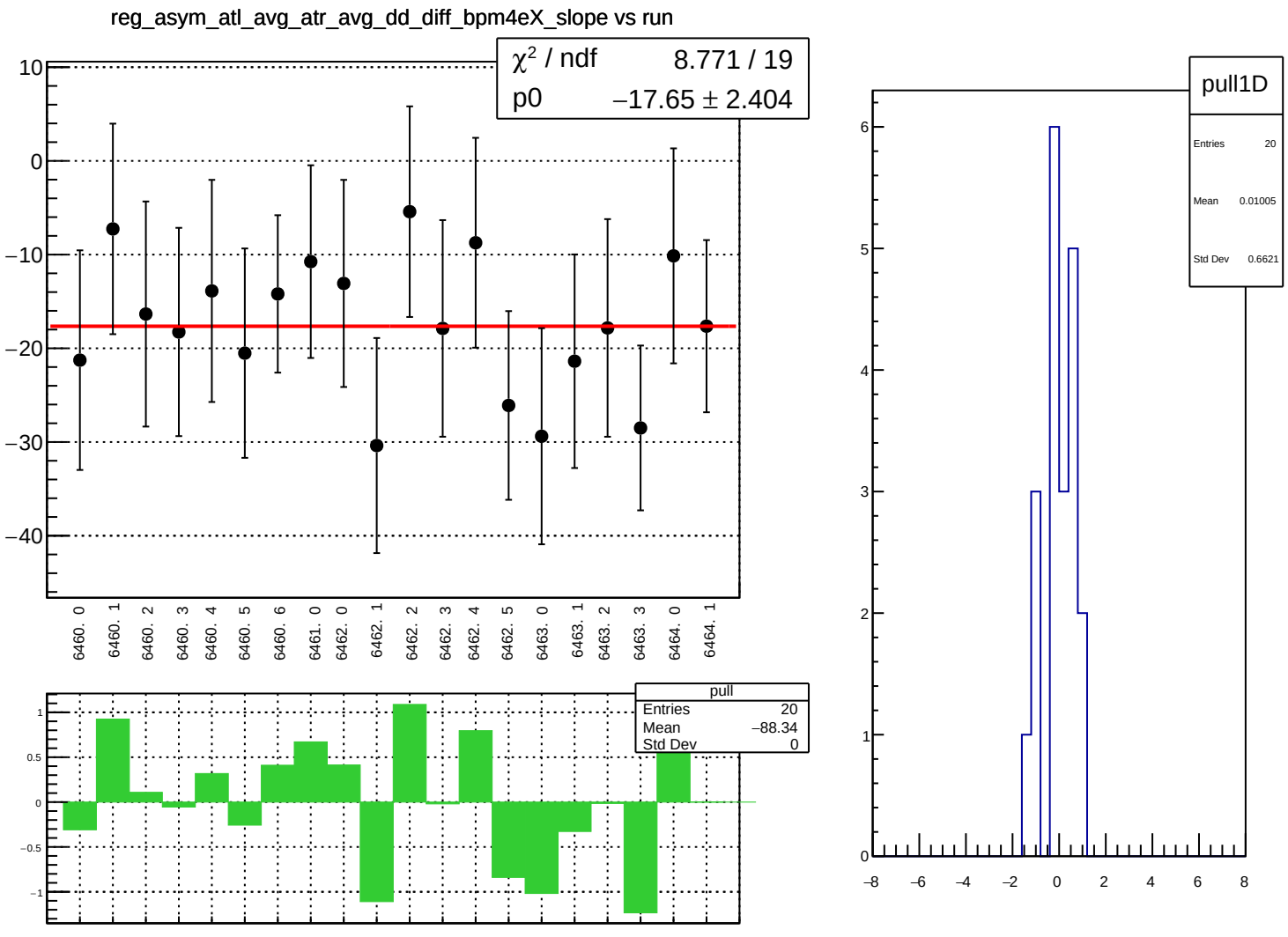

pull1D
Entries 20
Mean −0.006792
Std Dev 0.3906
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

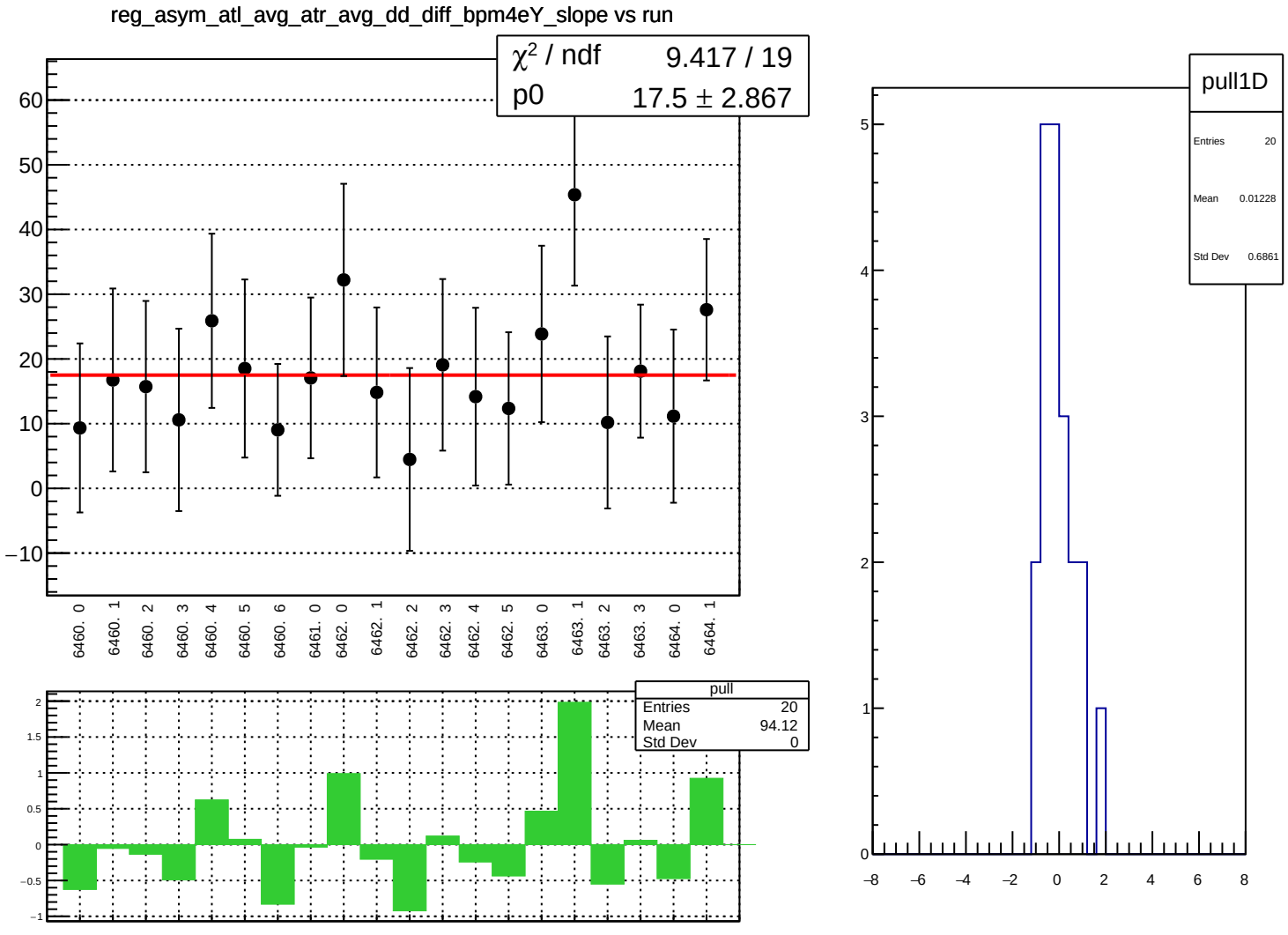

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.864 / 19
p0 65.54 ± 10.35
140
120
100
80
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −727.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.001064
Std Dev 0.3784
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

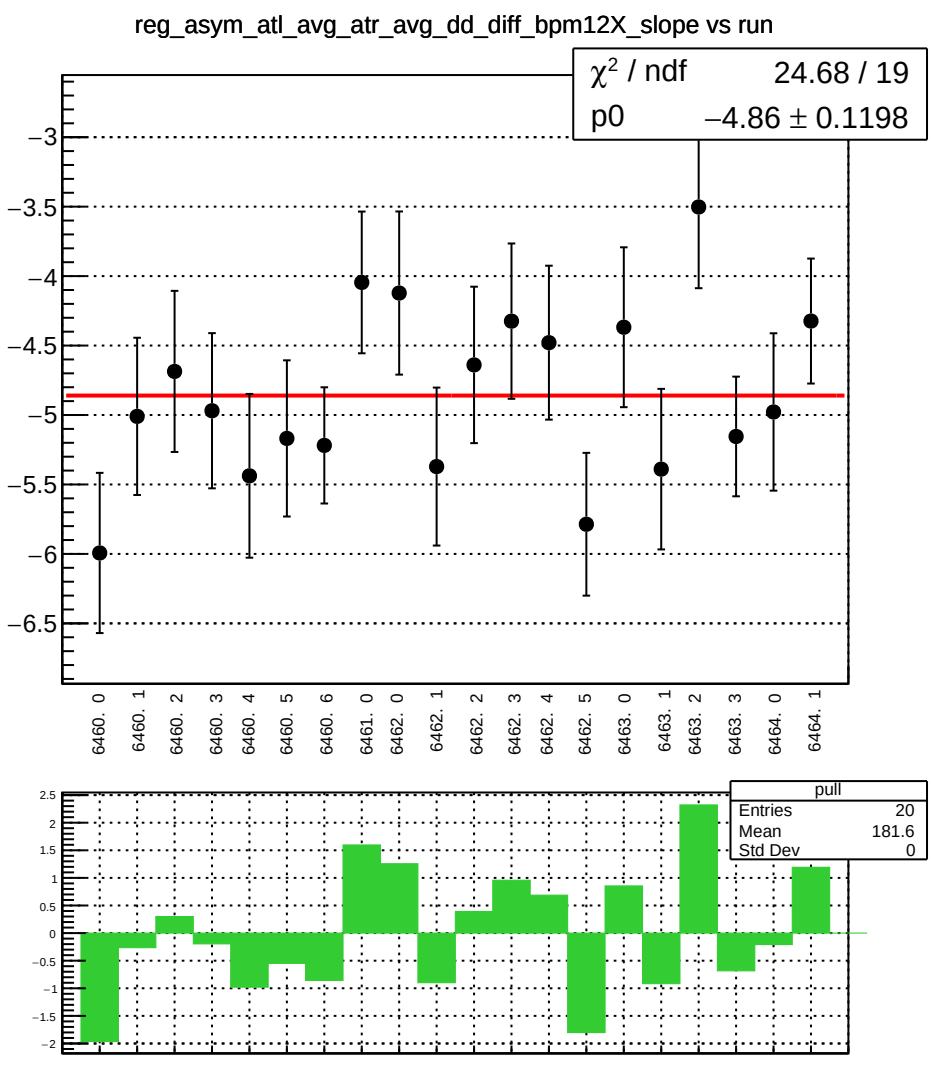

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 3.367 / 19
p0 −159.2 ± 0.4331
−155
−156
−157
−158
−159
−160
−161
−162
−163
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 615.6
Std Dev 0
pull1D
Entries 20
Mean −0.0009418
Std Dev 0.4103

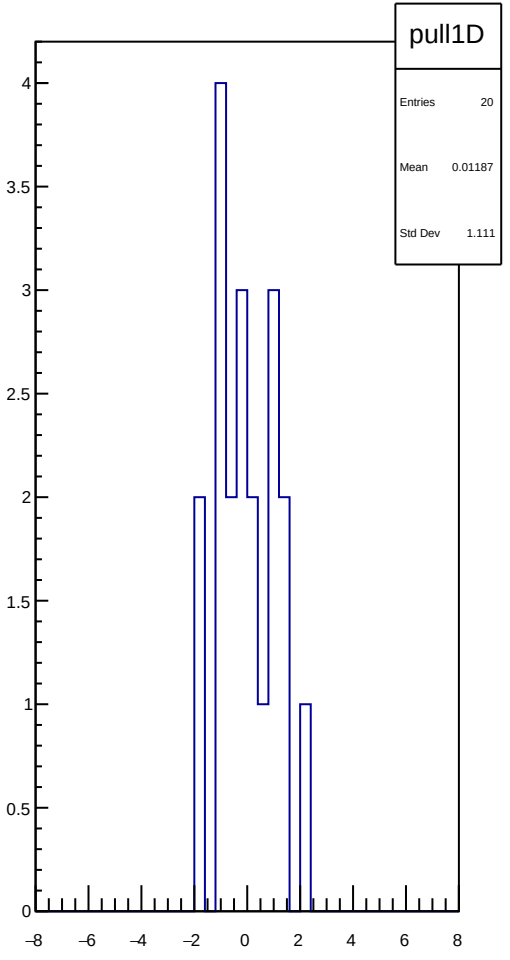

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 8.566 / 19
p0 2.018 ± 2.424
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −149.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.006402
Std Dev 0.6544
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

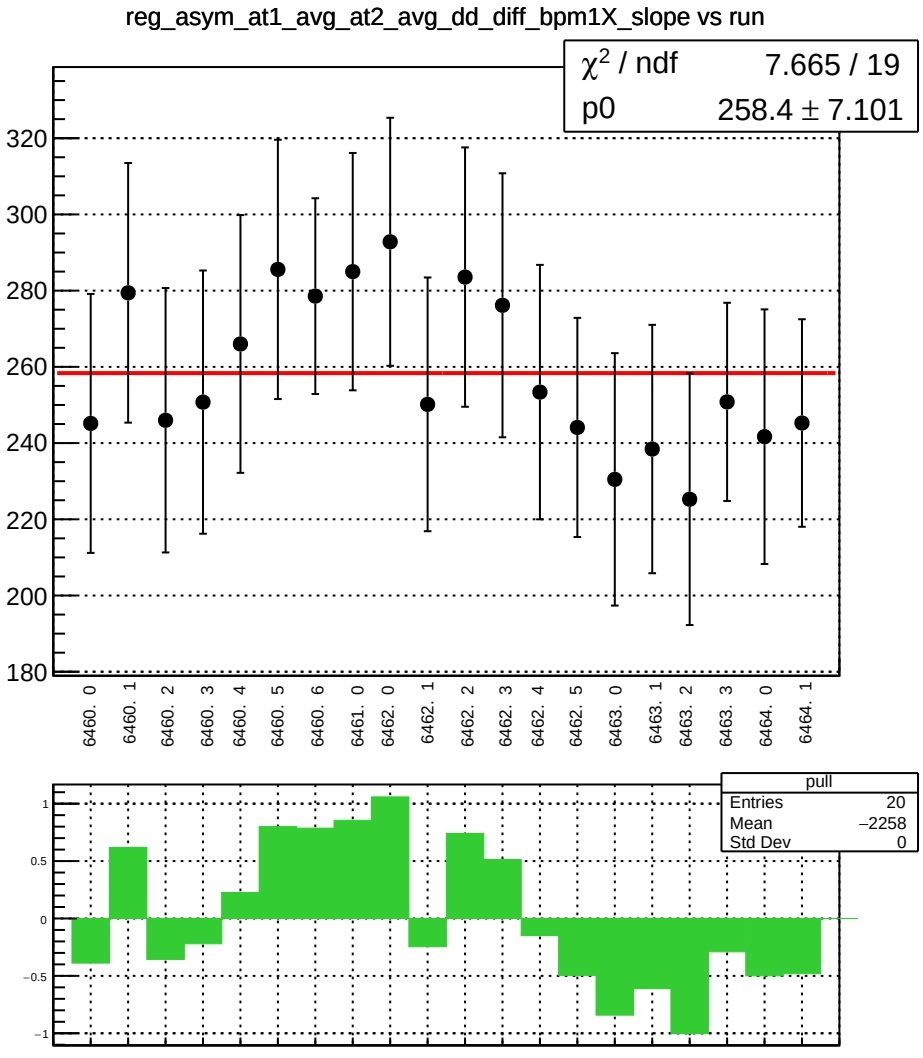

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.423 / 19
p0 −8.174 ± 2.837
20
10
0
−10
−20
−30
−40
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 54.26
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01829
Std Dev 0.6487
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

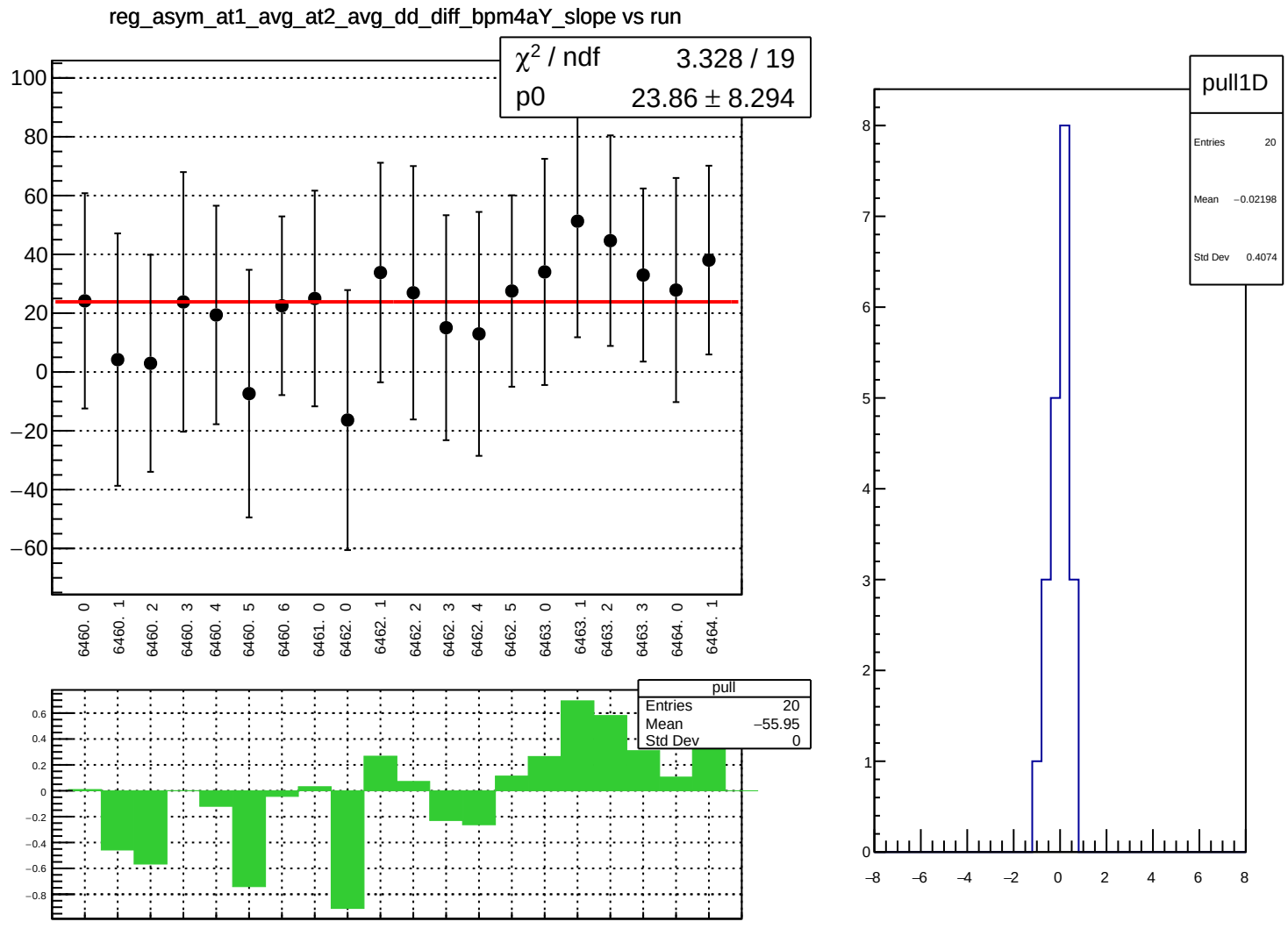

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.771 / 19
p0 −17.65 ± 2.404
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −88.34
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01005
Std Dev 0.6621
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

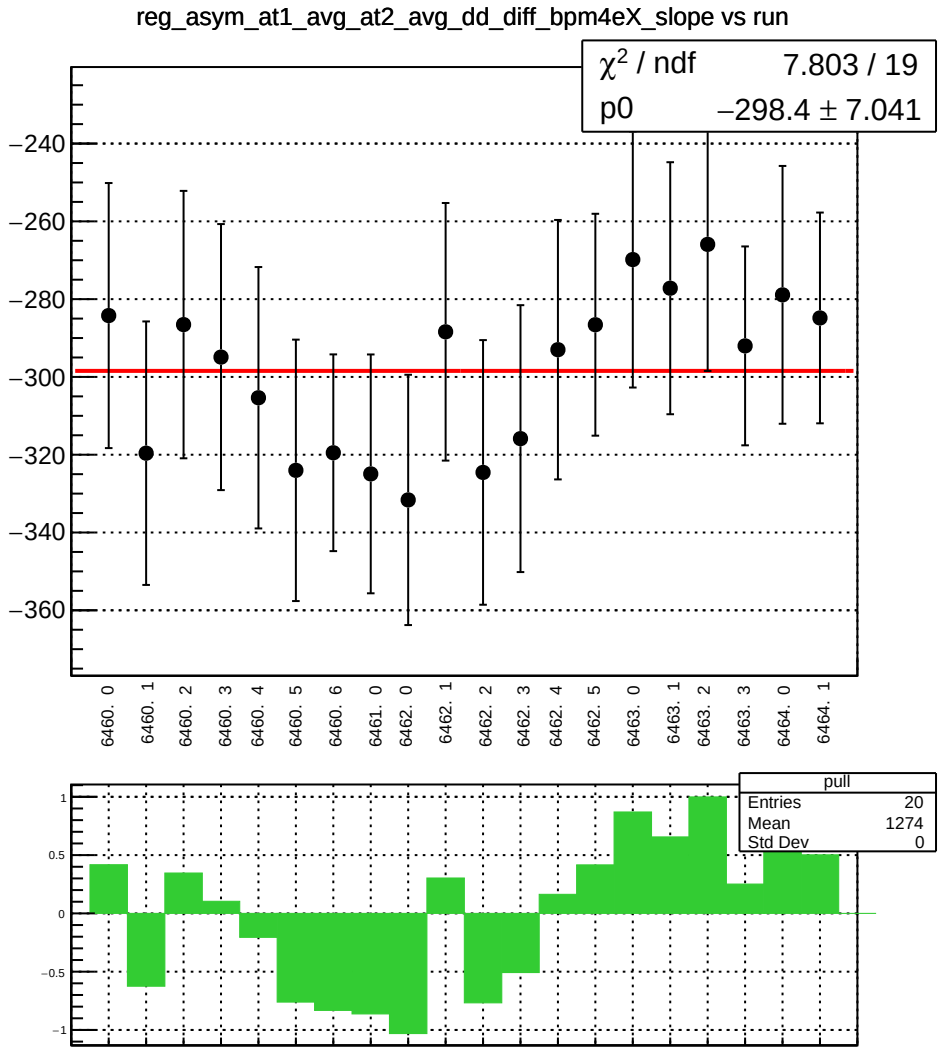

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.417 / 19
p0 17.5 ± 2.867
60
50
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 94.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01228
Std Dev 0.6861
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

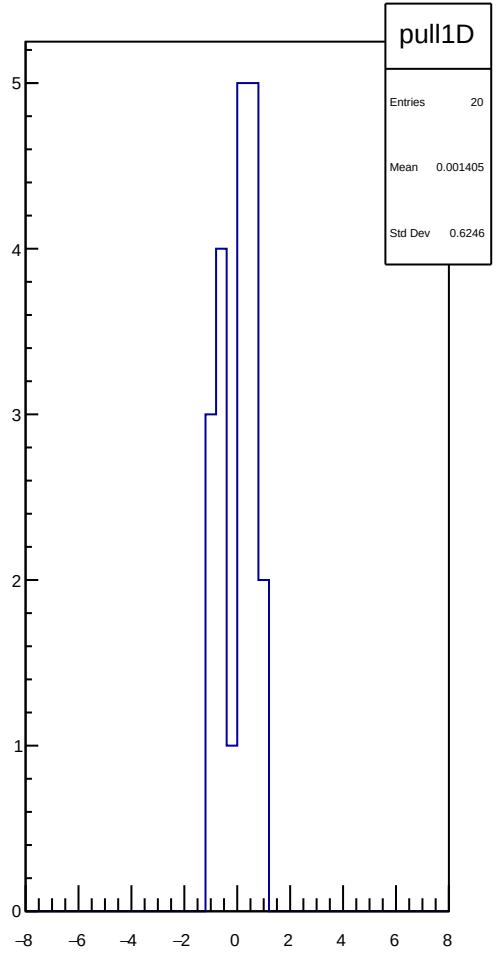

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 24.68 / 19
p0 −4.86 ± 0.1198
−3
−3.5
−4
−4.5
−5
−5.5
−6
−6.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 181.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

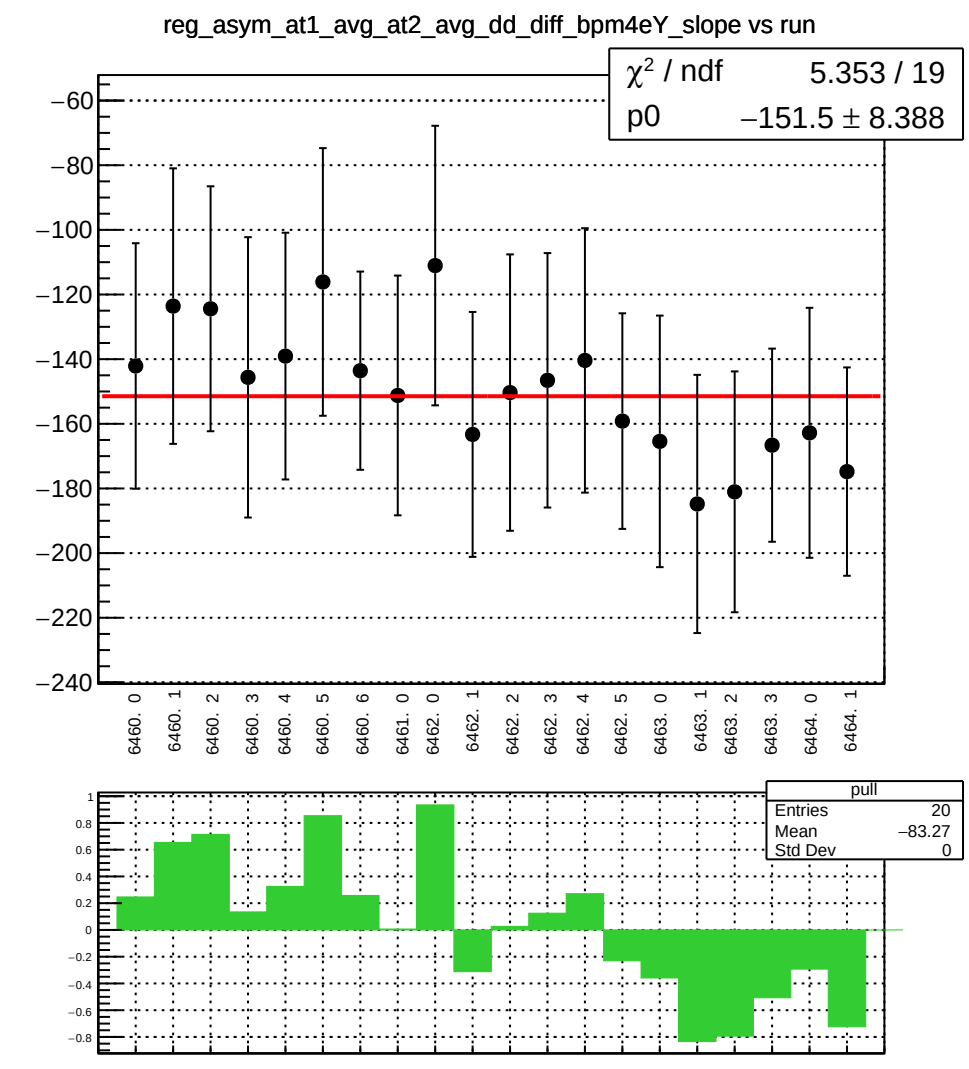

pull1D
Entries 20
Mean 0.01187
Std Dev 1.111
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

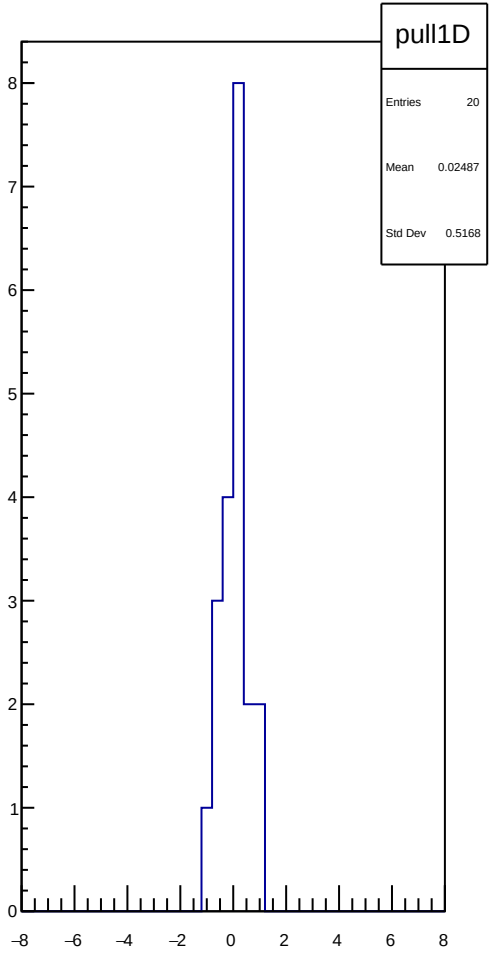

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.665 / 19
p0 258.4 ± 7.101
320
300
280
260
240
220
200
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2258
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.0007557
Std Dev 0.6191
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

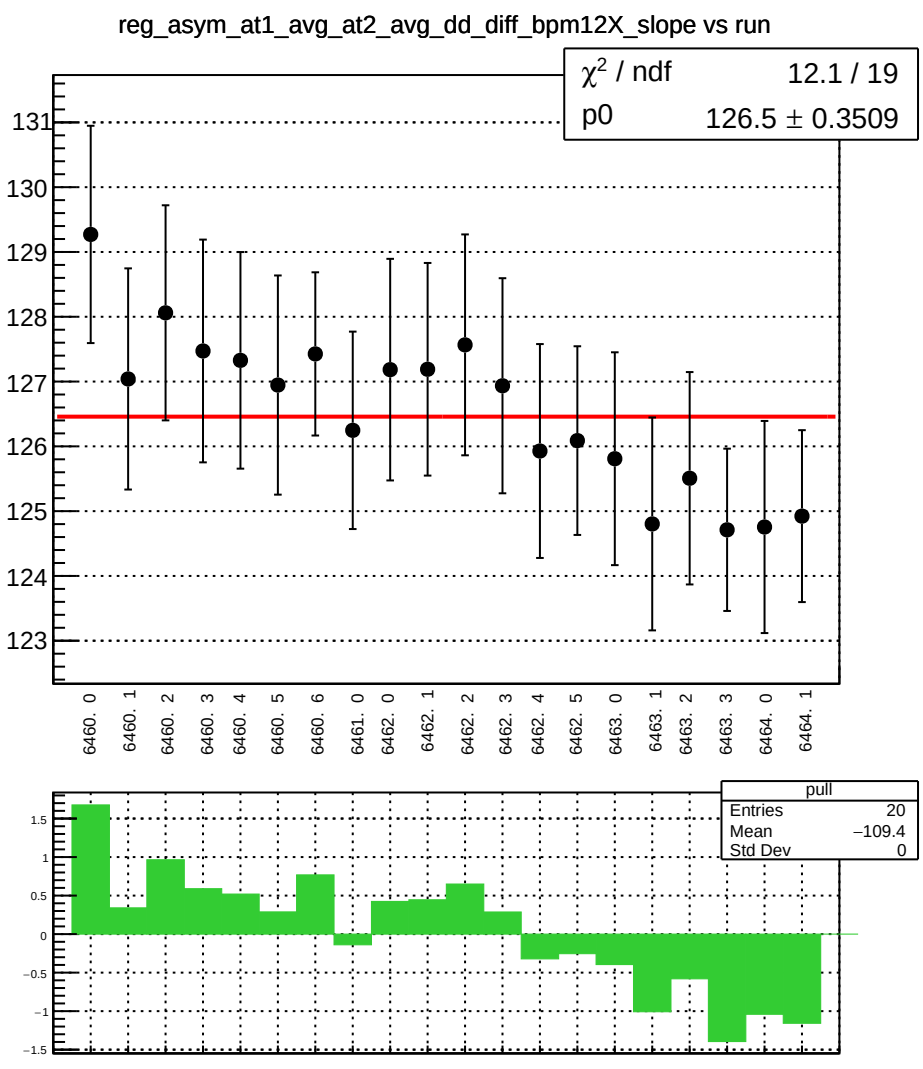

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.328 / 19
p0 23.86 ± 8.294
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −55.95
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.02198
Std Dev 0.4074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

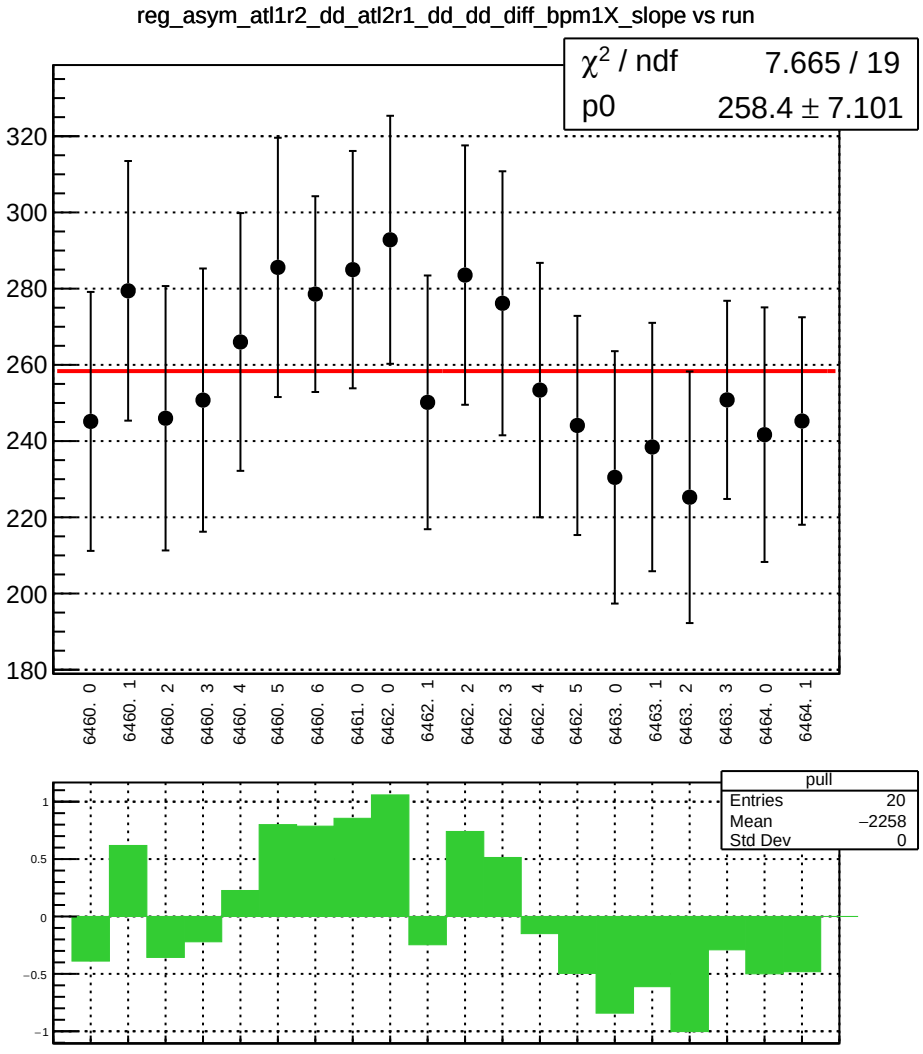

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.803 / 19
p0 −298.4 ± 7.041
−240
−260
−280
−300
−320
−340
−360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1274
Std Dev 0
1
0.5
0
−0.5
−1

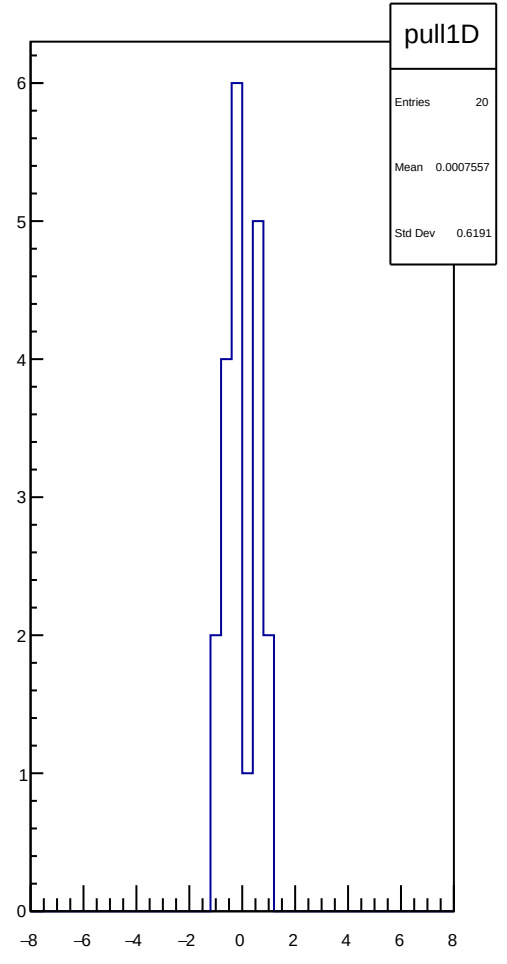

pull1D
Entries 20
Mean 0.001405
Std Dev 0.6246
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

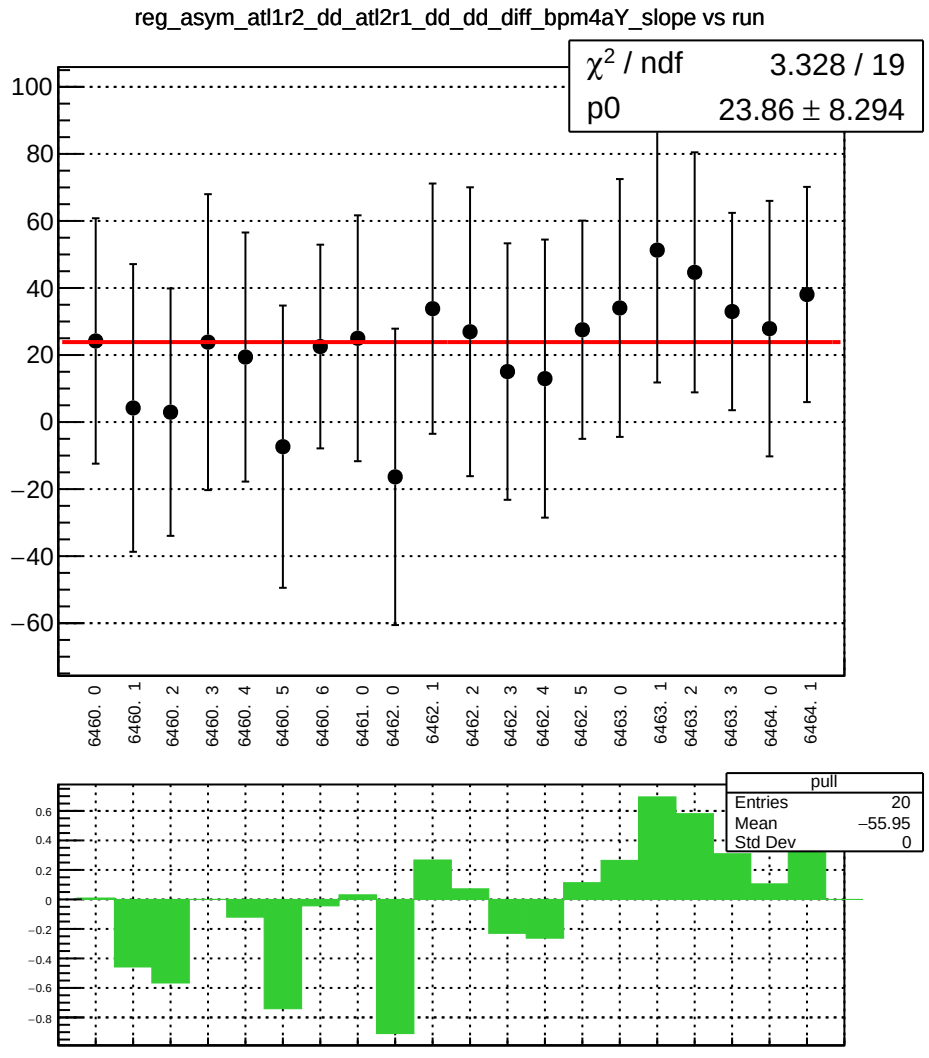

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.353 / 19
p0 −151.5 ± 8.388
−60
−80
−100
−120
−140
−160
−180
−200
−220
−240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −83.27
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

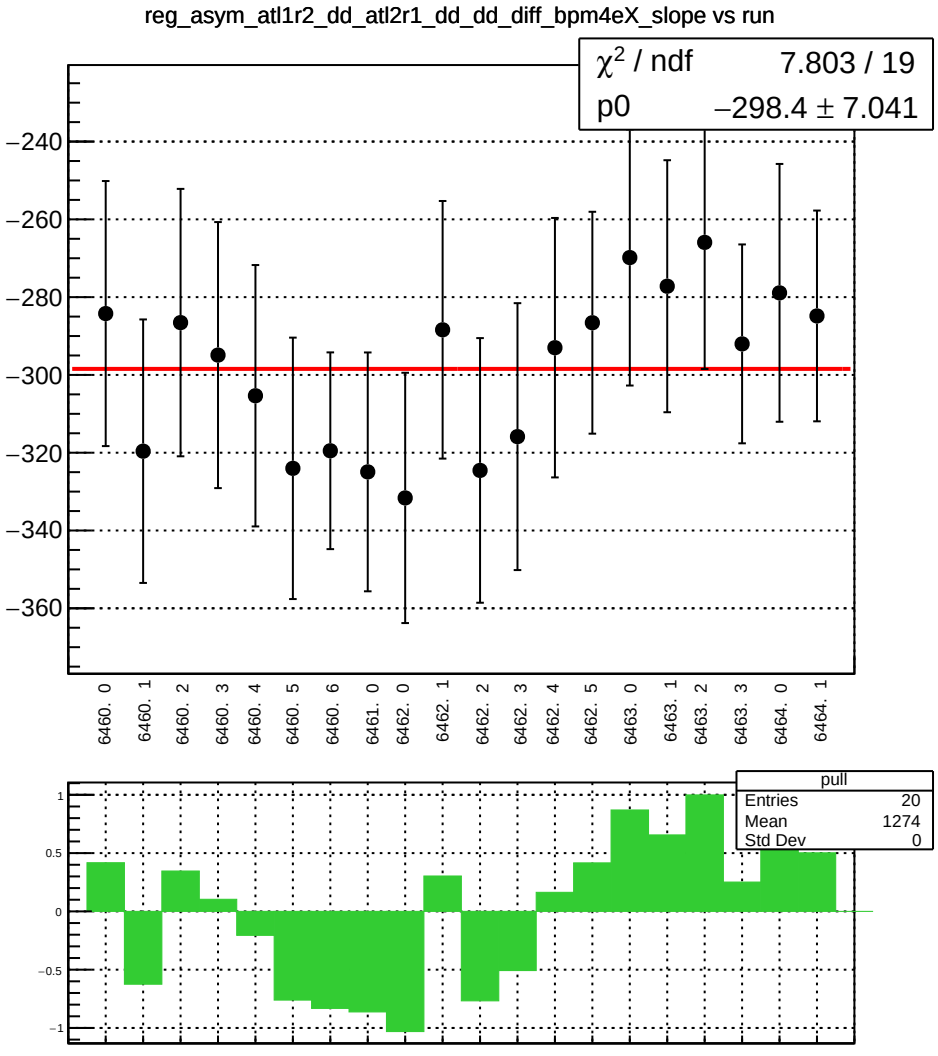

pull1D
Entries 20
Mean 0.02487
Std Dev 0.5168
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

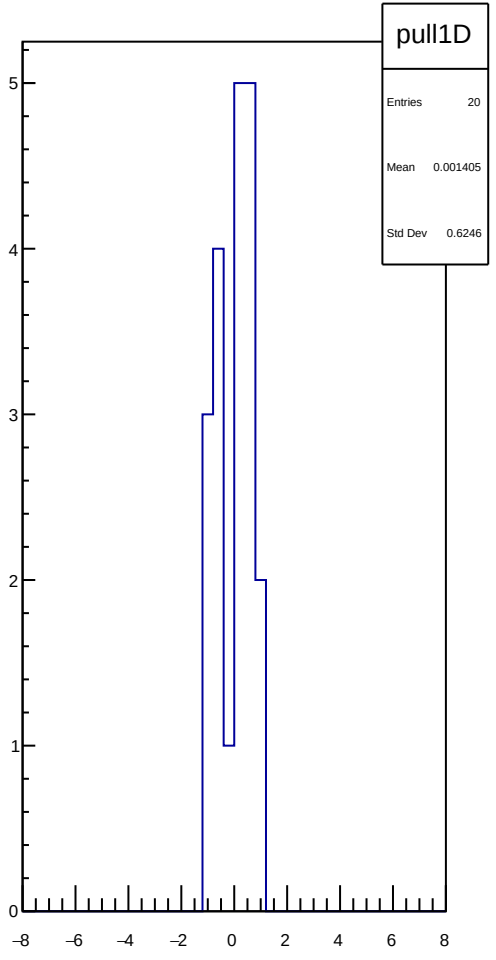

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 12.1 / 19
p0 126.5 ± 0.3509
131
130
129
128
127
126
125
124
123
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −109.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03334
Std Dev 0.7771
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

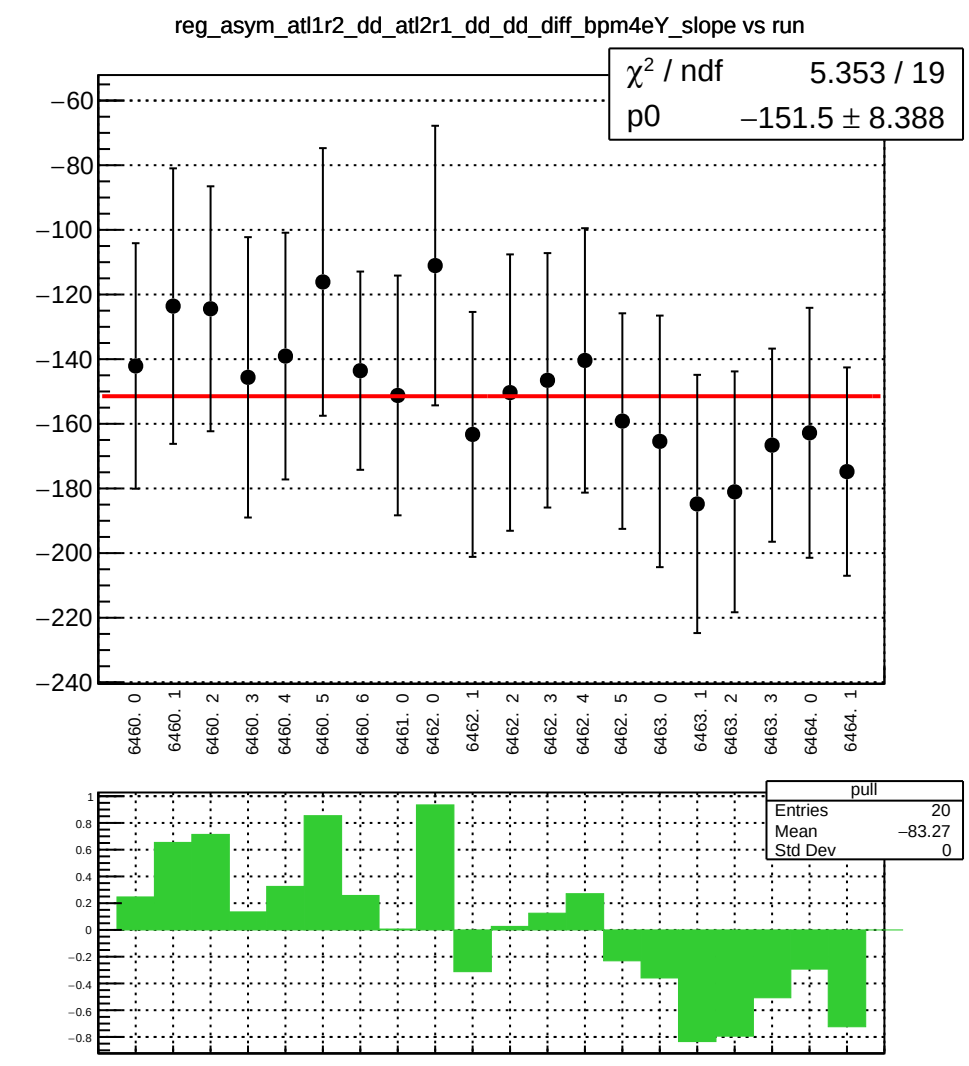

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 7.665 / 19
p0 258.4 ± 7.101
320
300
280
260
240
220
200
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2258
Std Dev 0
1
0.5
0
−0.5
−1

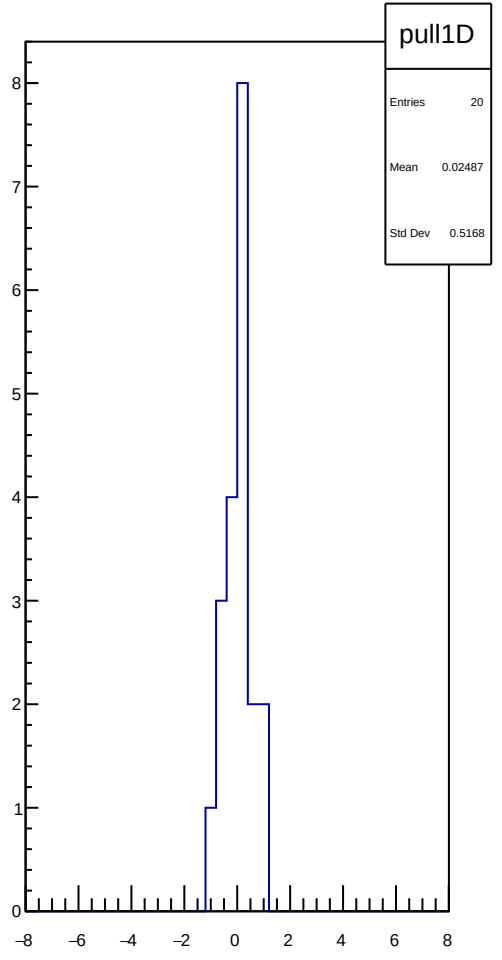

pull1D
Entries 20
Mean 0.0007557
Std Dev 0.6191
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

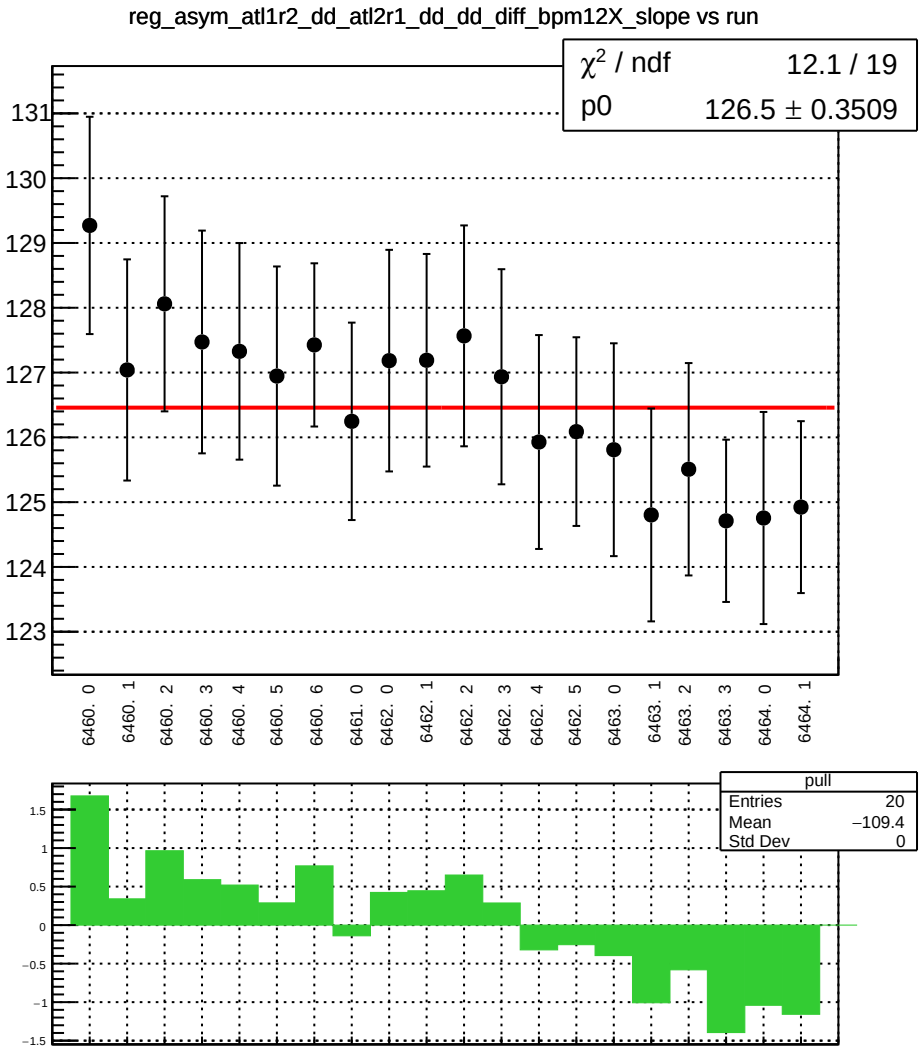

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.328 / 19
p0 23.86 ± 8.294
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −55.95
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.02198
Std Dev 0.4074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

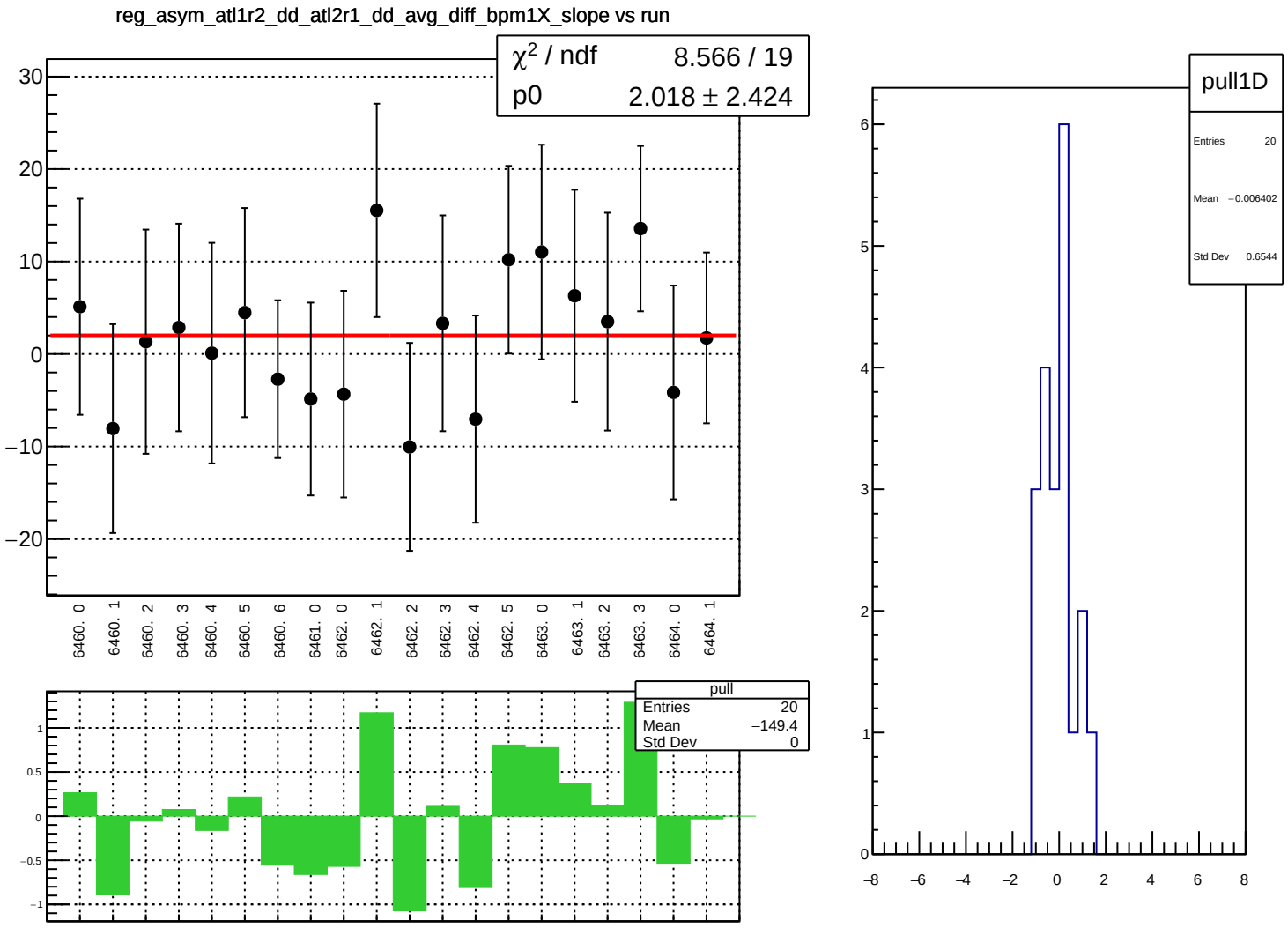

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.803 / 19
p0 −298.4 ± 7.041
−240
−260
−280
−300
−320
−340
−360
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1274
Std Dev 0
1
0.5
0
−0.5
−1

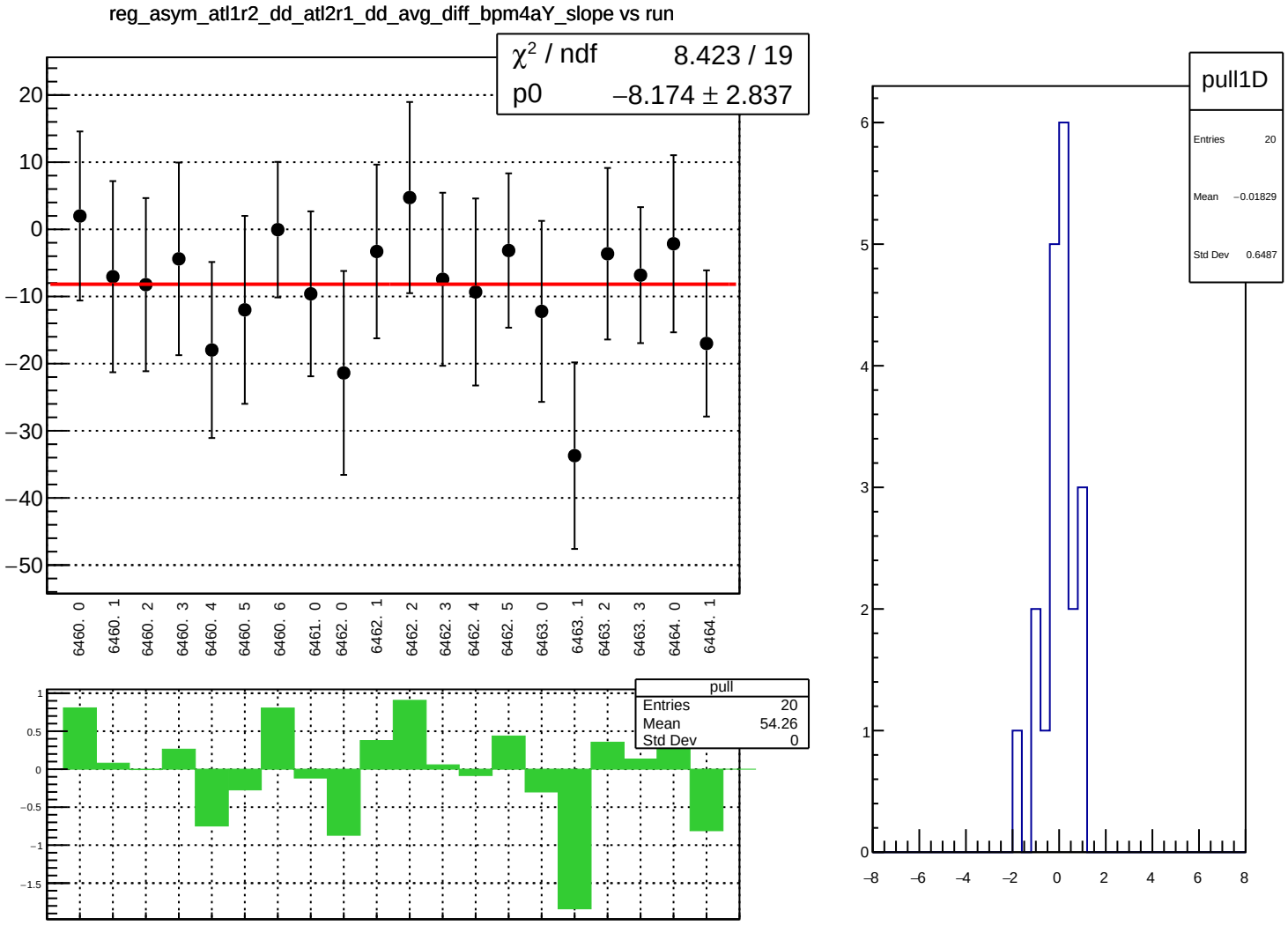

pull1D
Entries 20
Mean 0.001405
Std Dev 0.6246
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

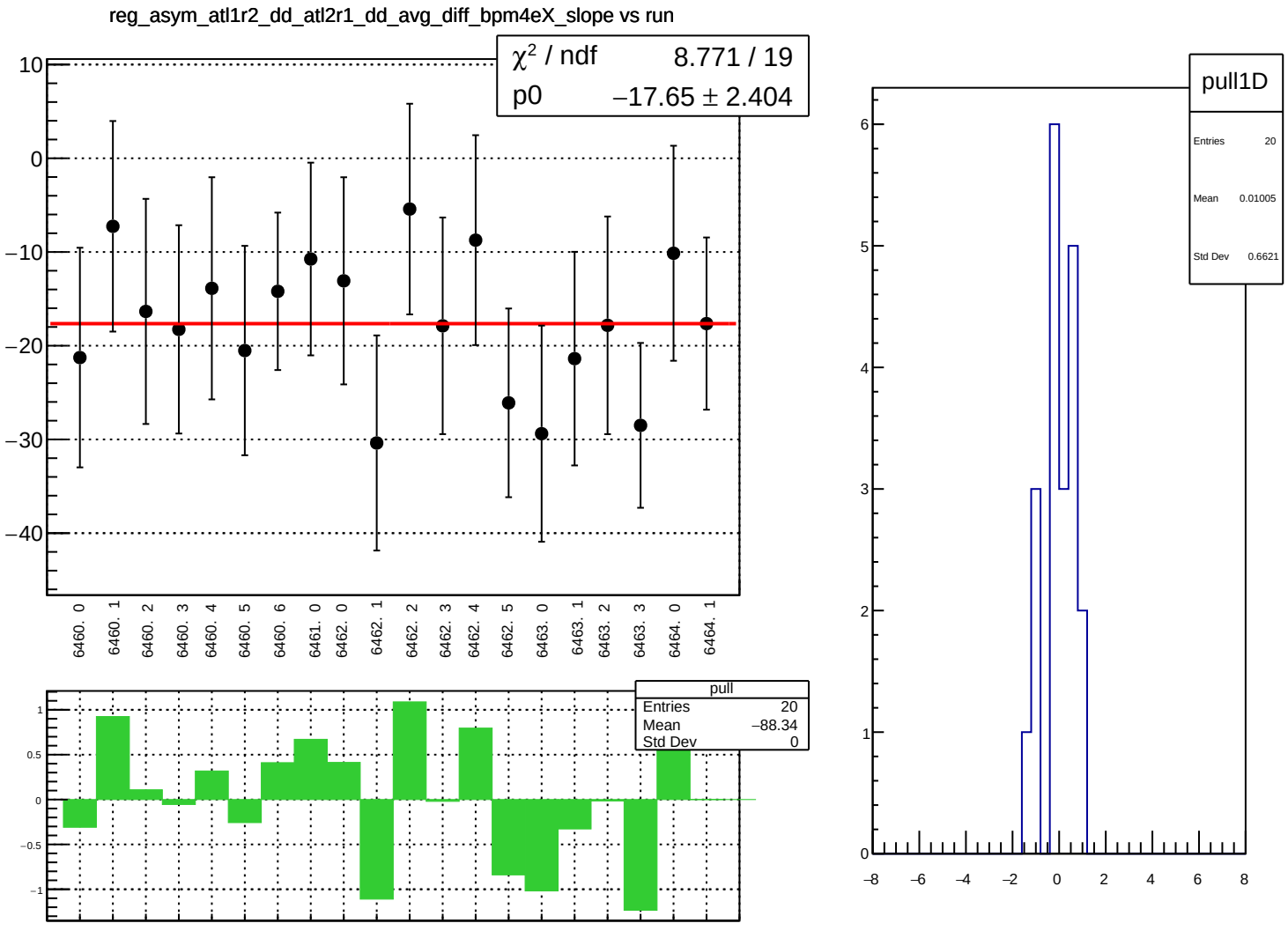

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.353 / 19
p0 −151.5 ± 8.388
−60
−80
−100
−120
−140
−160
−180
−200
−220
−240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −83.27
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

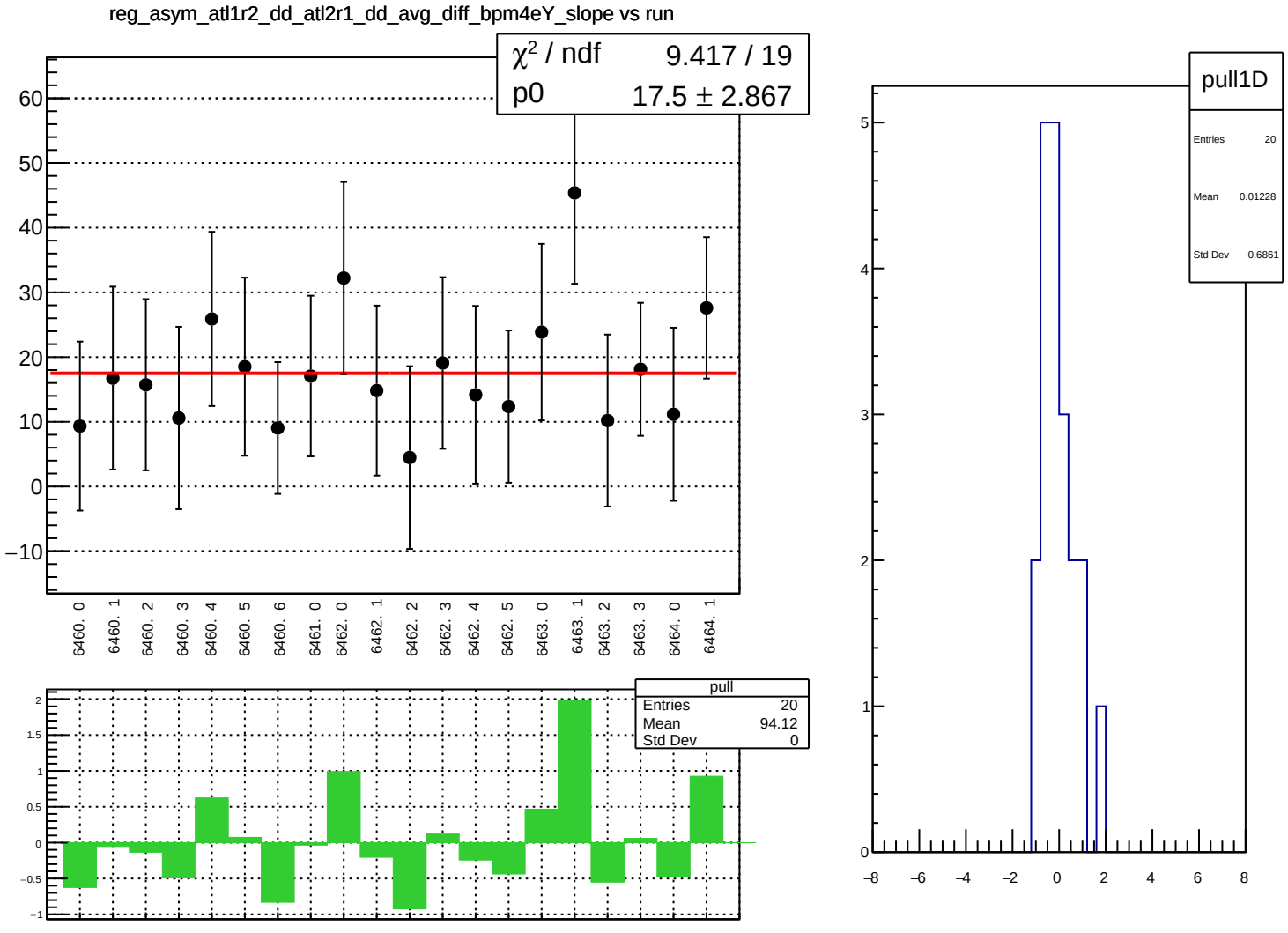

pull1D
Entries 20
Mean 0.02487
Std Dev 0.5168
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

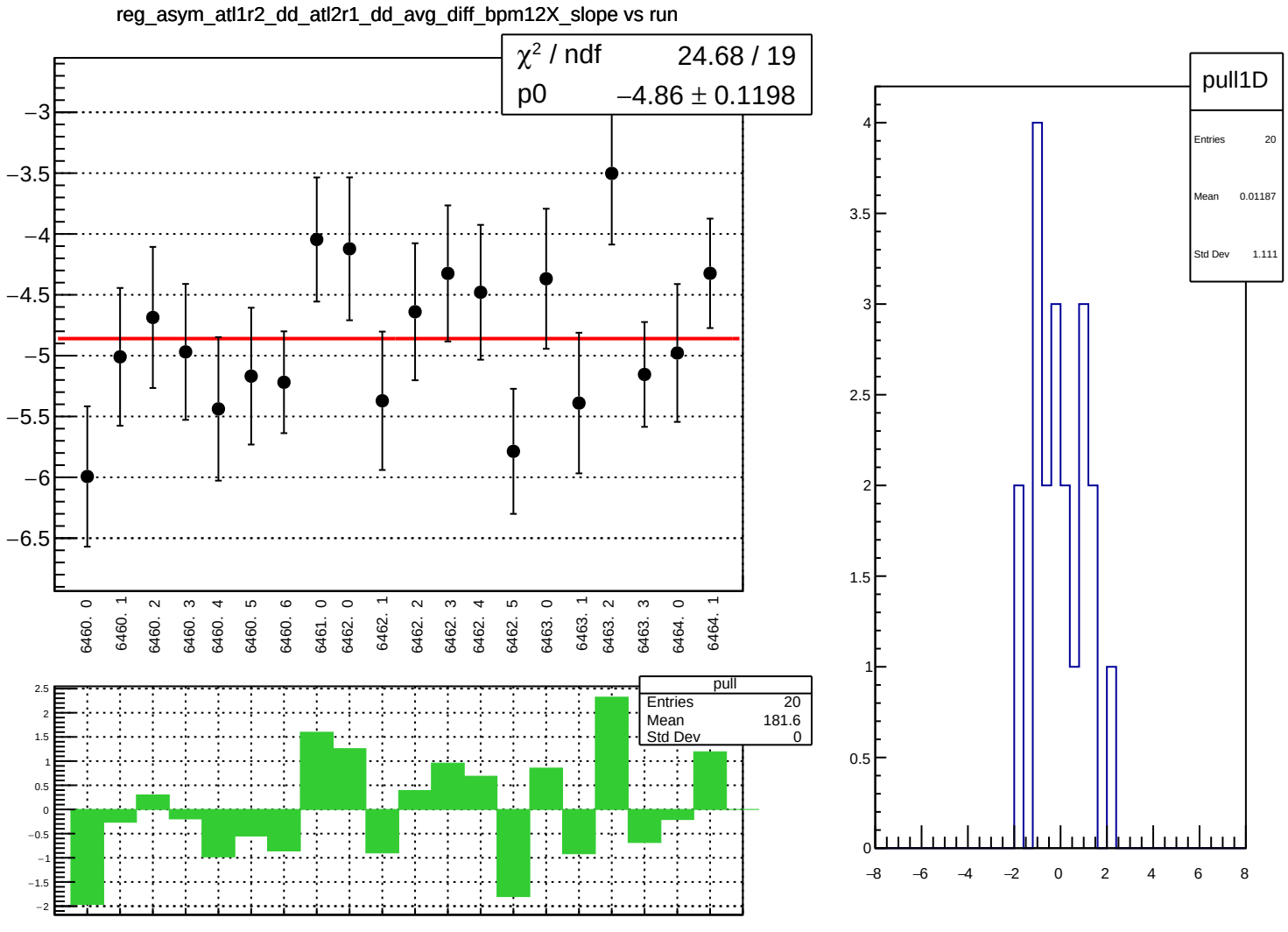

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 12.1 / 19
p0 126.5 ± 0.3509
131
130
129
128
127
126
125
124
123
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −109.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03334
Std Dev 0.7771
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

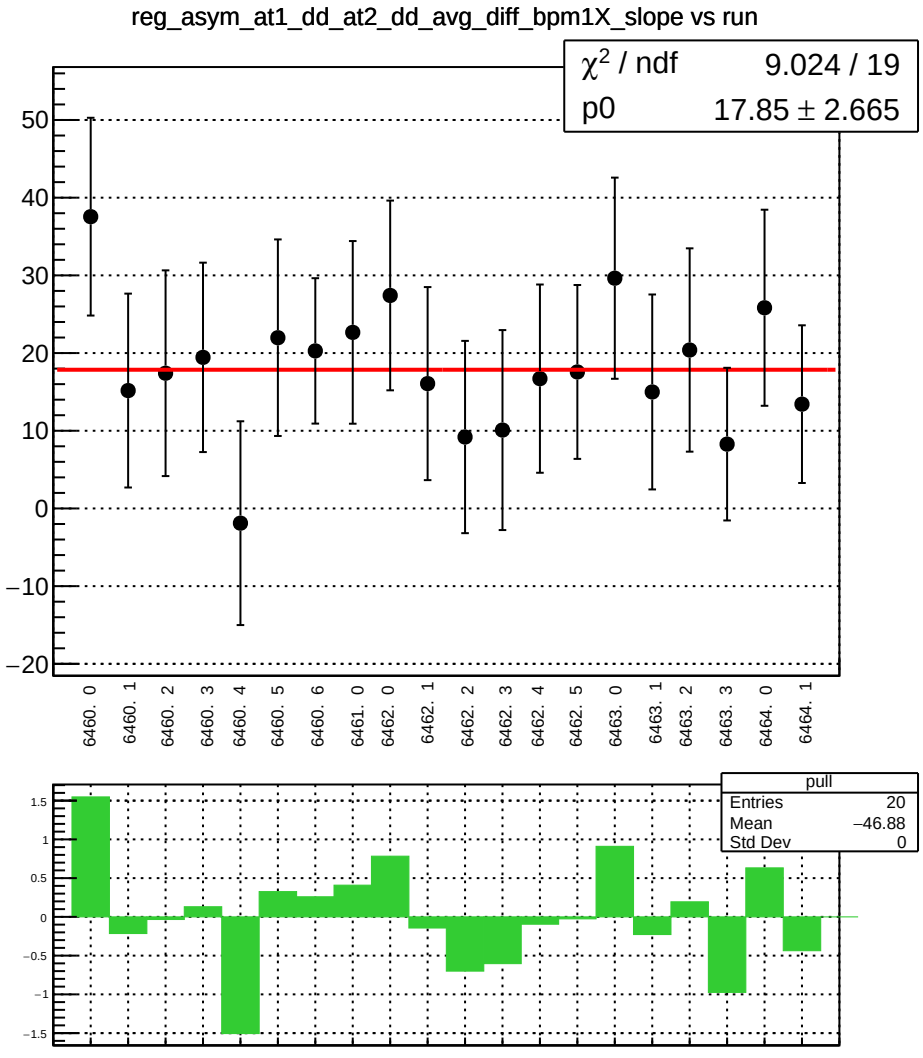

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 8.566 / 19
p0 2.018 ± 2.424
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −149.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.006402
Std Dev 0.6544
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

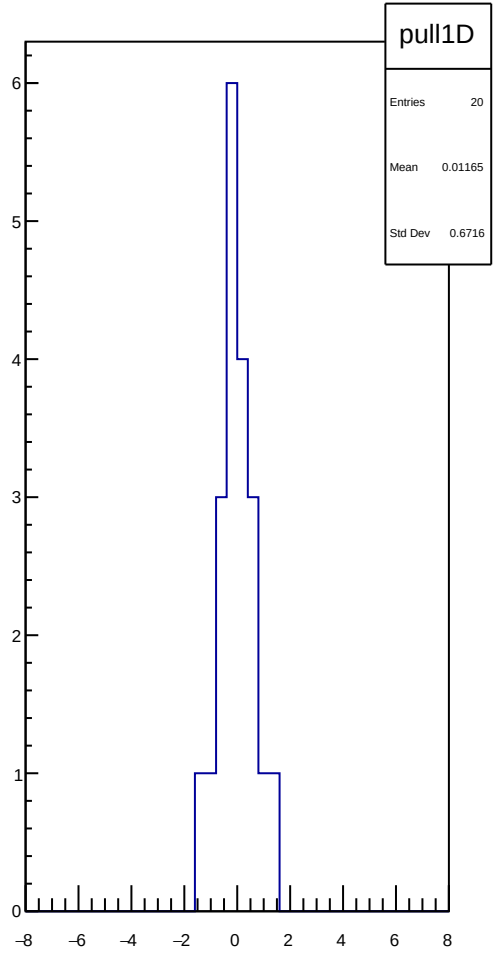

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.423 / 19
p0 −8.174 ± 2.837
20
10
0
−10
−20
−30
−40
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 54.26
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01829
Std Dev 0.6487
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

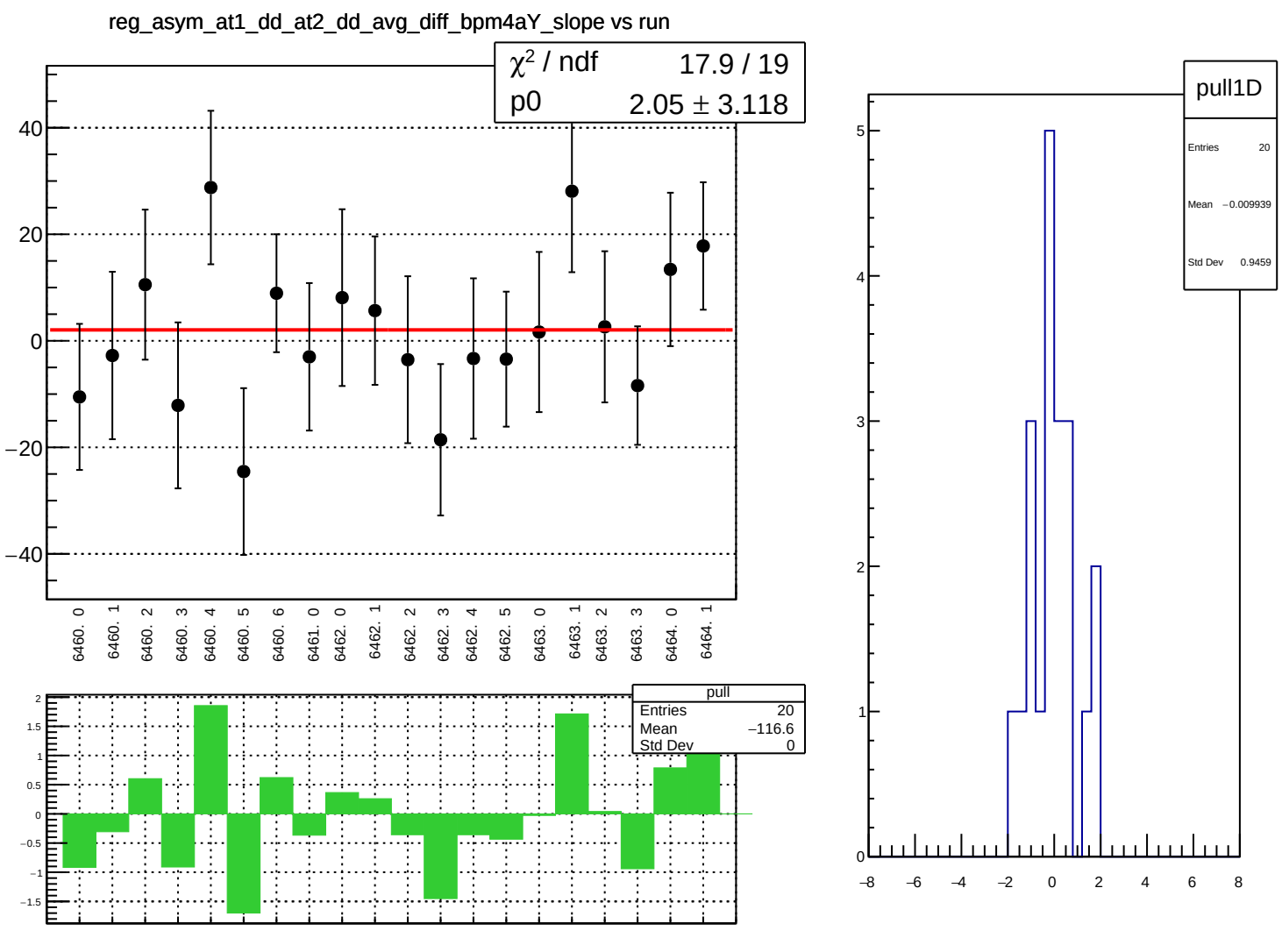

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.771 / 19
p0 −17.65 ± 2.404
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −88.34
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01005
Std Dev 0.6621
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

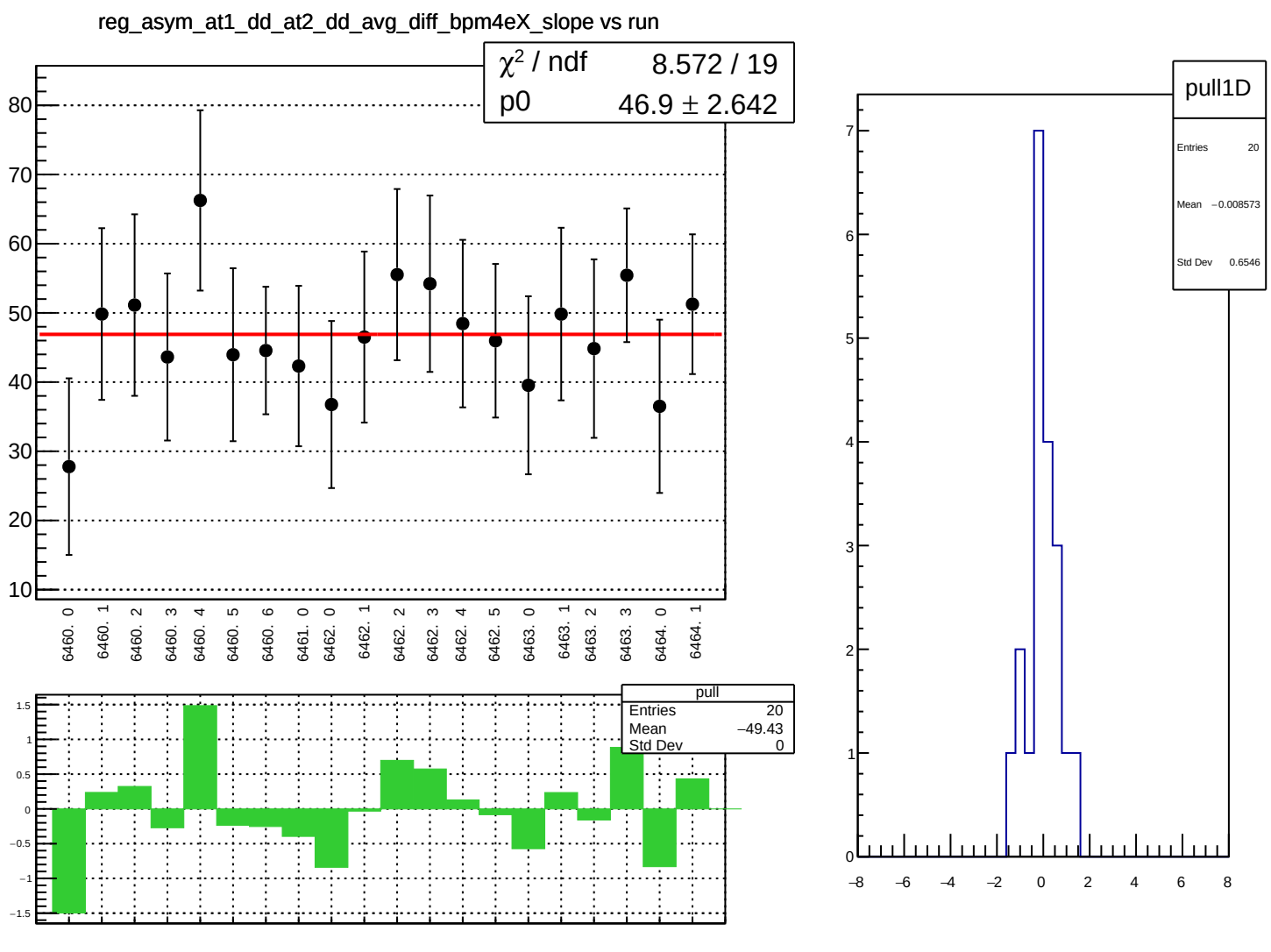

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.417 / 19
p0 17.5 ± 2.867
60
50
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 94.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01228
Std Dev 0.6861
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

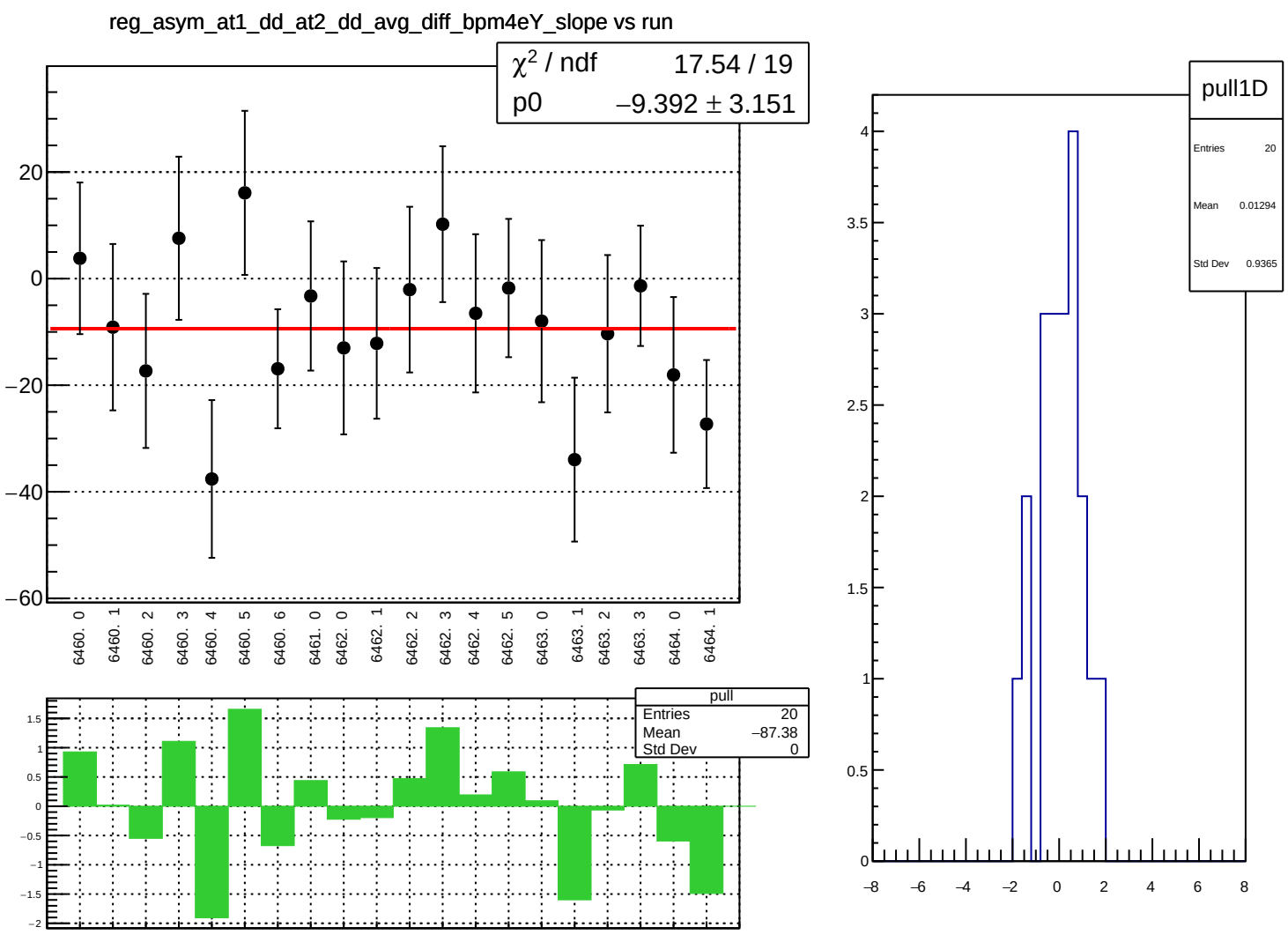

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 24.68 / 19
p0 −4.86 ± 0.1198
−3
−3.5
−4
−4.5
−5
−5.5
−6
−6.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 181.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.01187
Std Dev 1.111
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

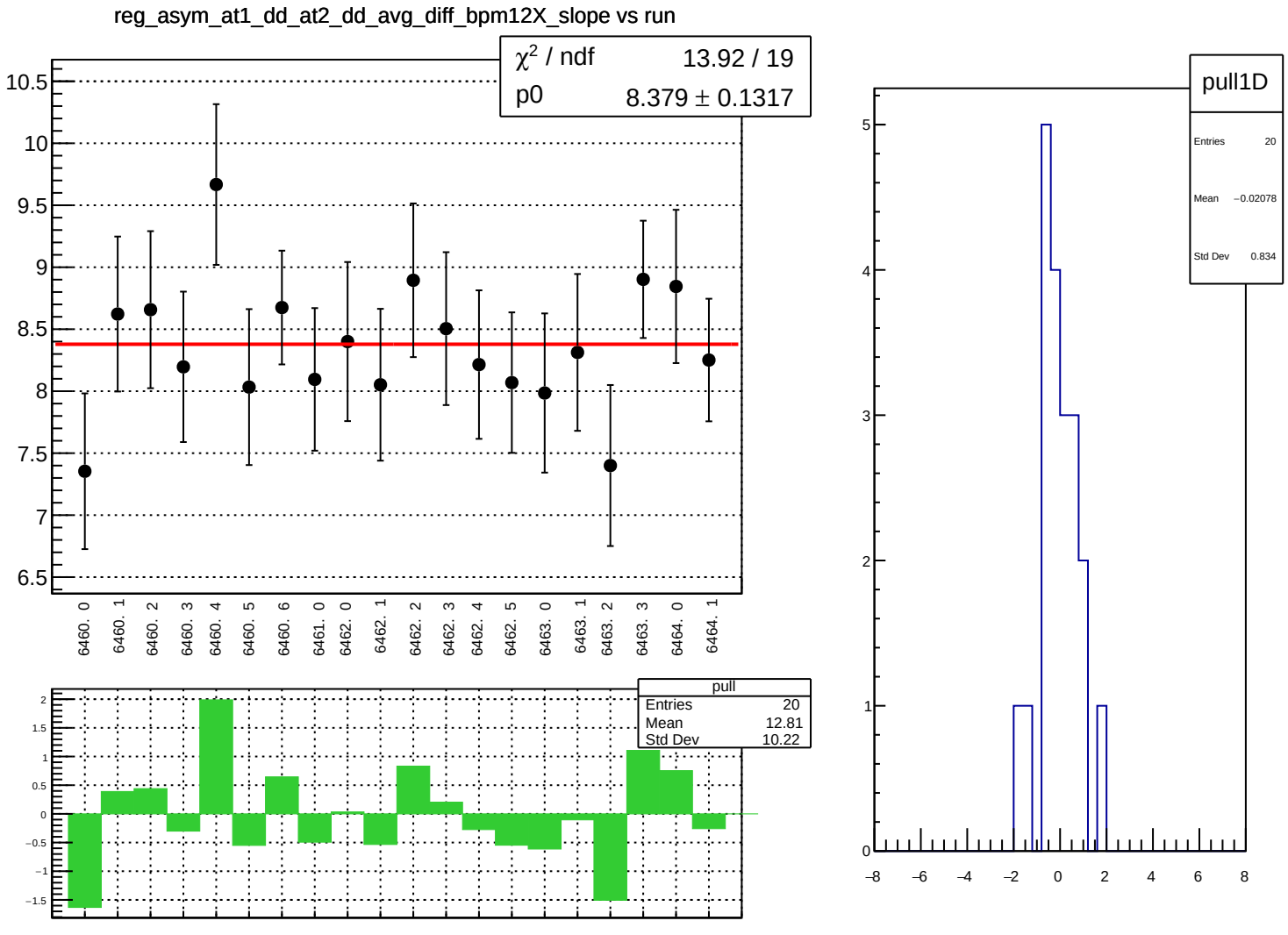

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 9.024 / 19
p0 17.85 ± 2.665
50
40
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −46.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

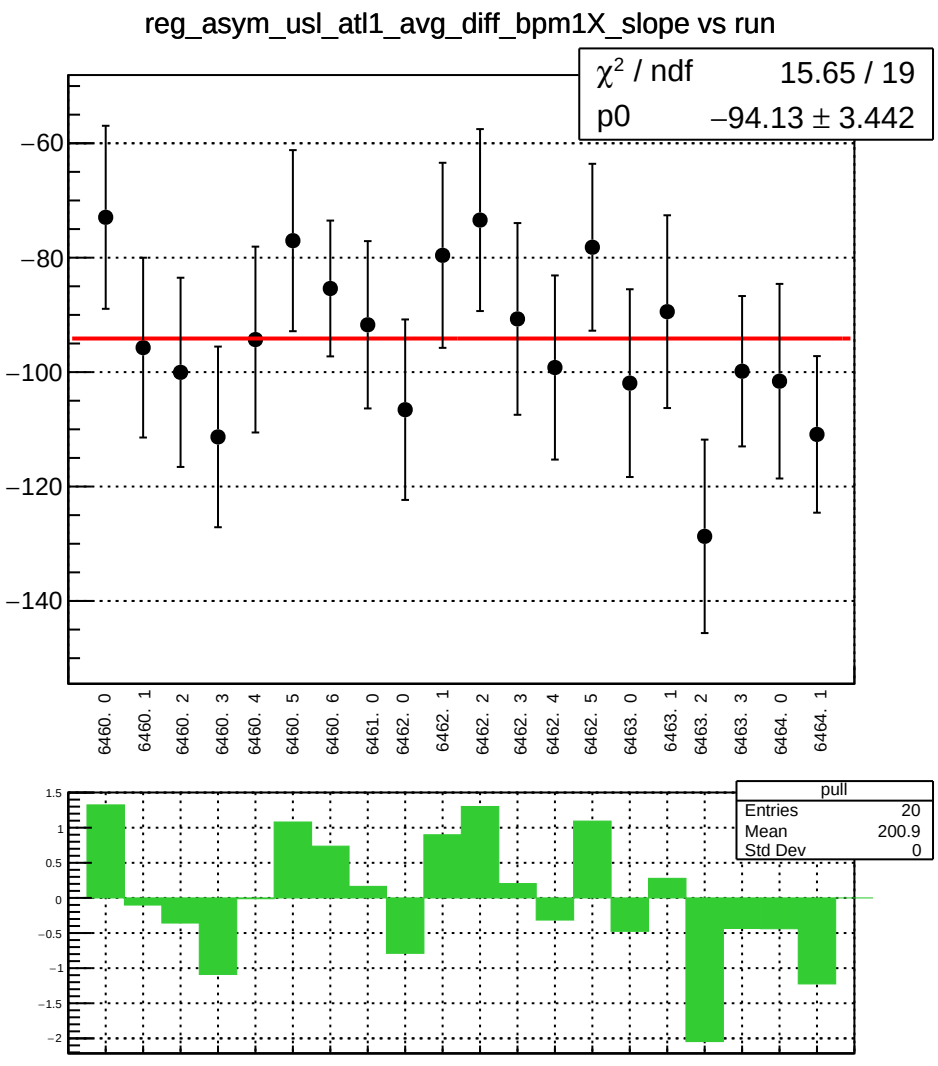

pull1D
Entries 20
Mean 0.01165
Std Dev 0.6716
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

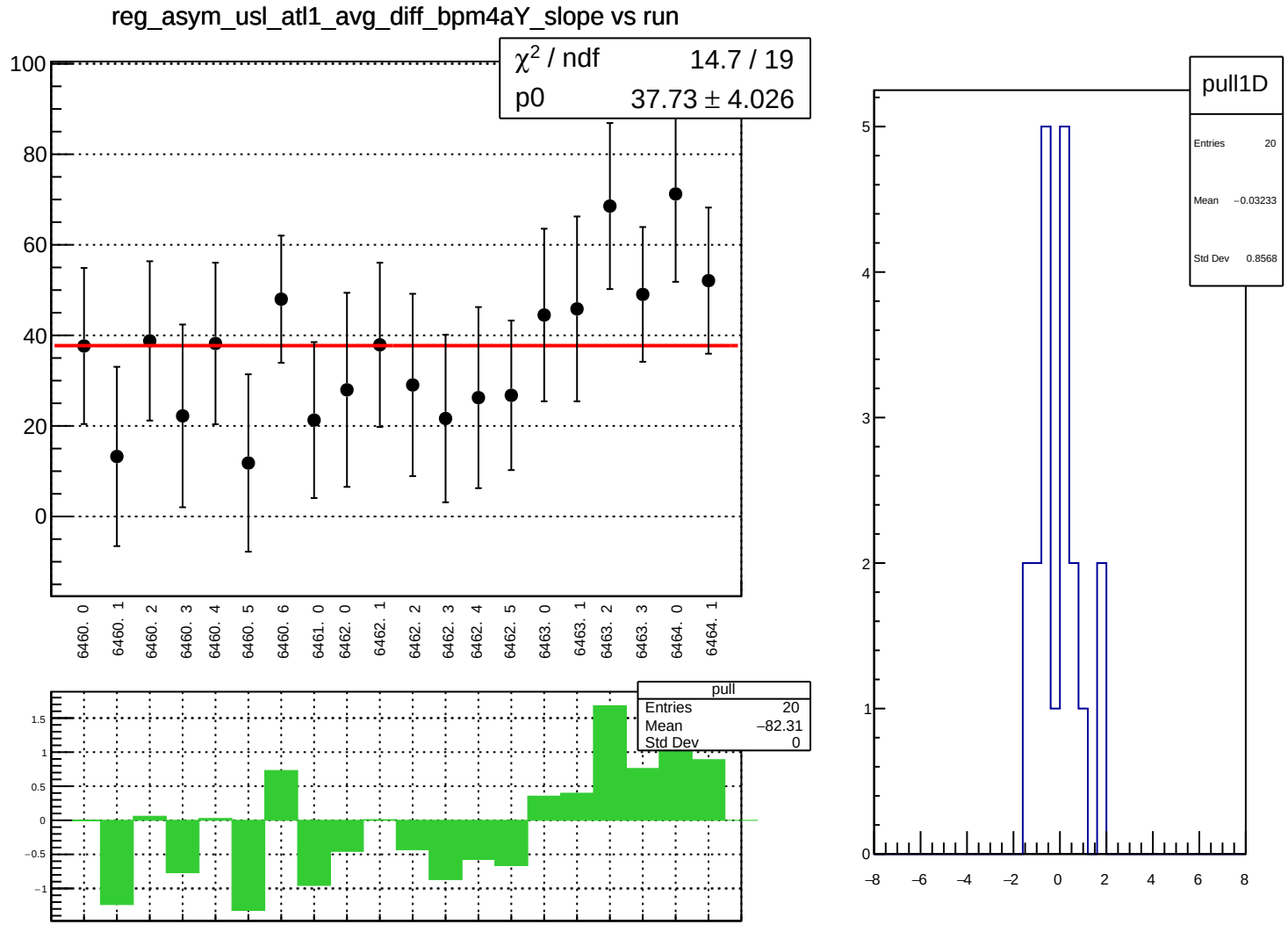

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.9 / 19
p0 2.05 ± 3.118
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −116.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.009939
Std Dev 0.9459
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

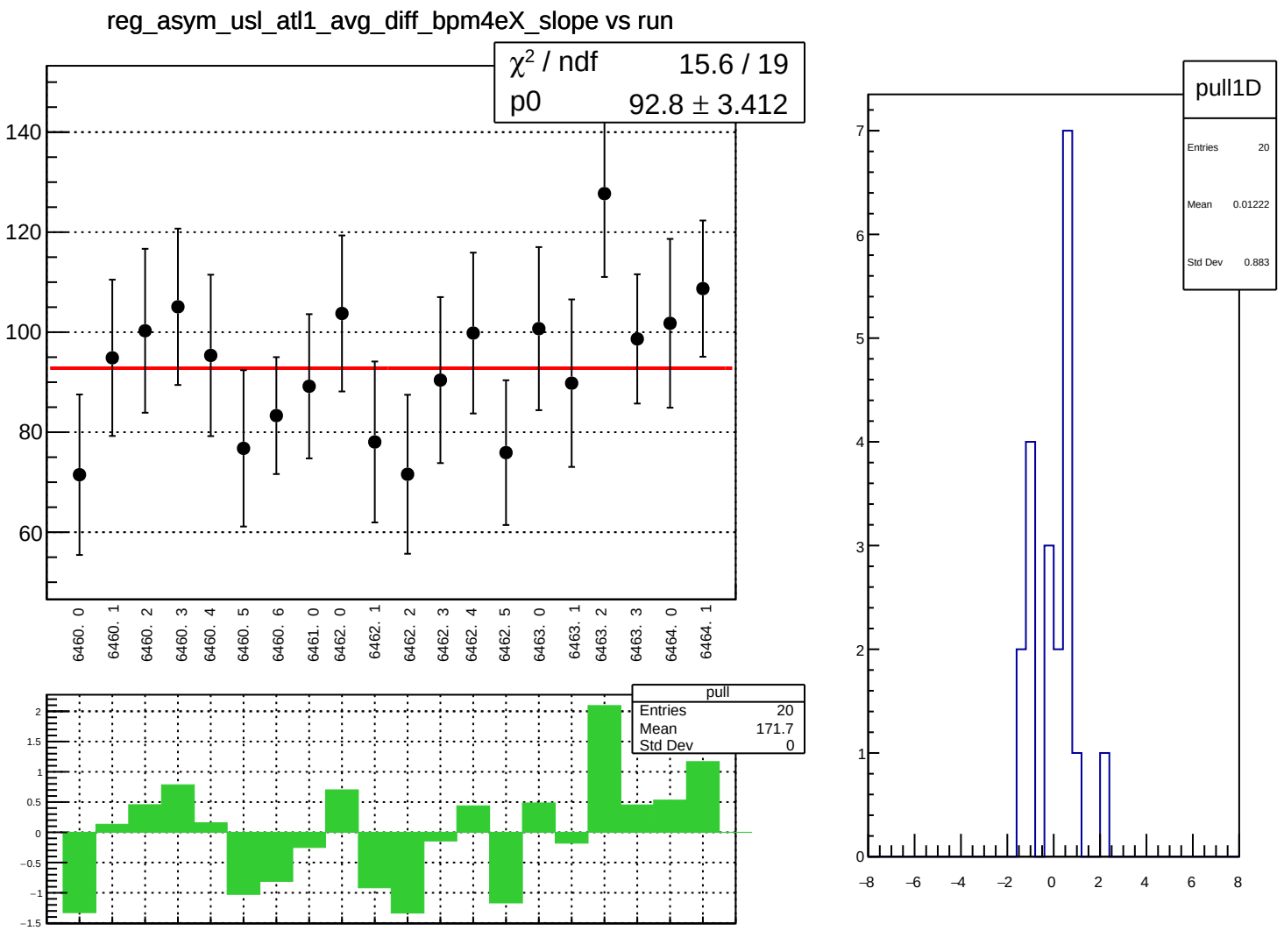

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.572 / 19
p0 46.9 ± 2.642
80
70
60
50
40
30
20
10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.008573
Std Dev 0.6546
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

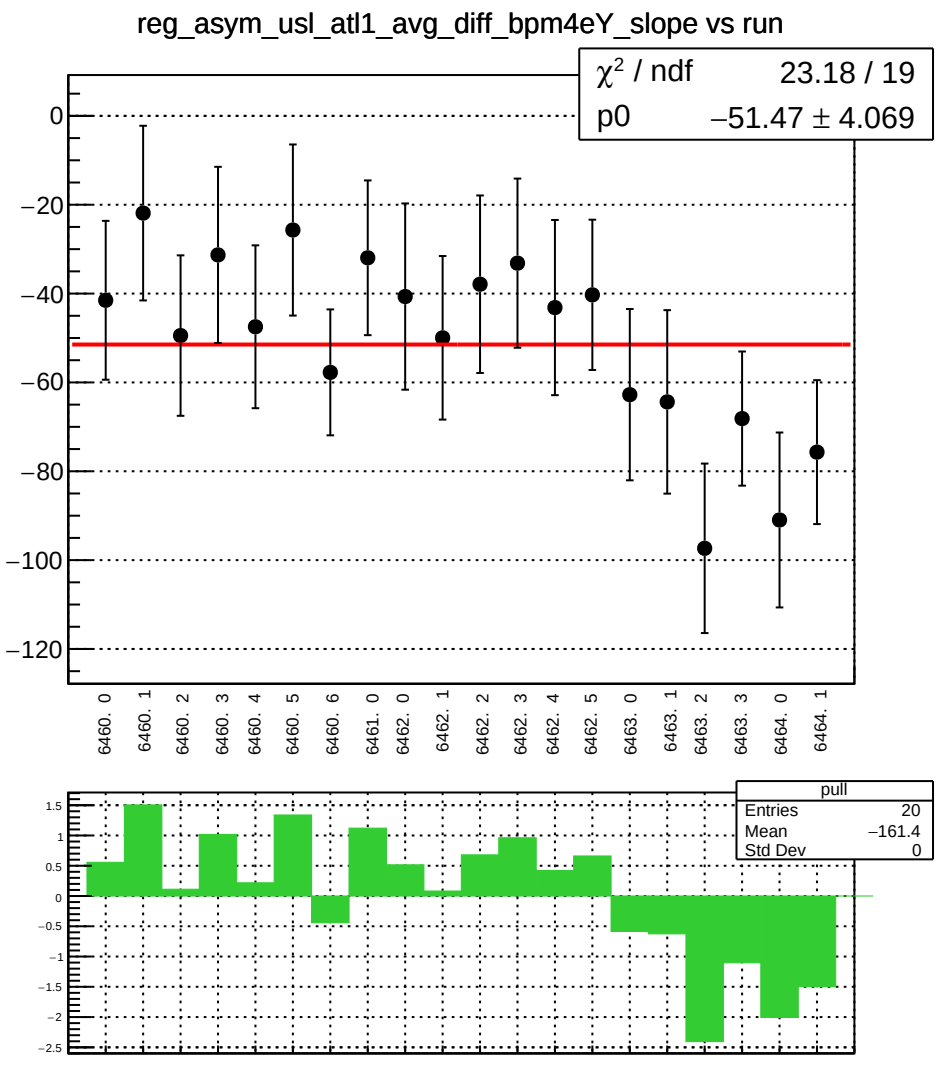

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.54 / 19
p0 −9.392 ± 3.151
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −87.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.01294
Std Dev 0.9365
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

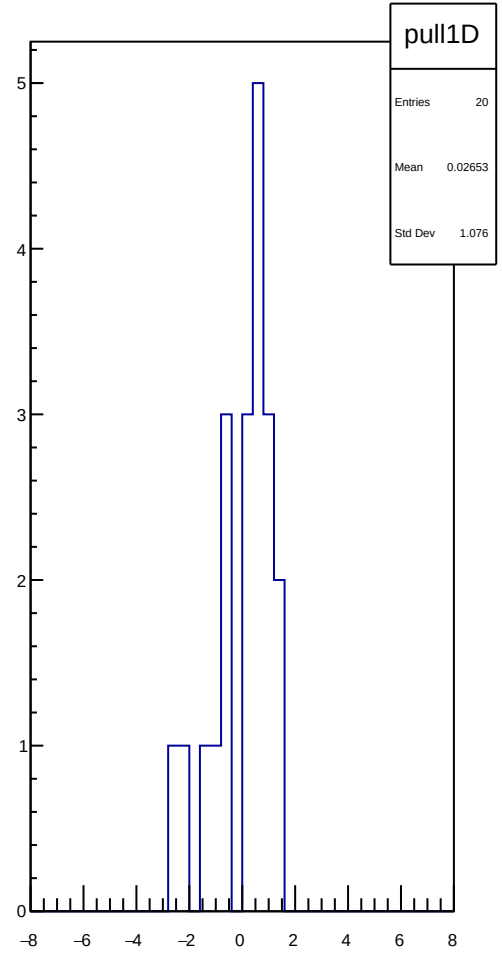

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 13.92 / 19
p0 8.379 ± 0.1317
10.5
10
9.5
9
8.5
8
7.5
7
6.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.81
Std Dev 10.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02078
Std Dev 0.834
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

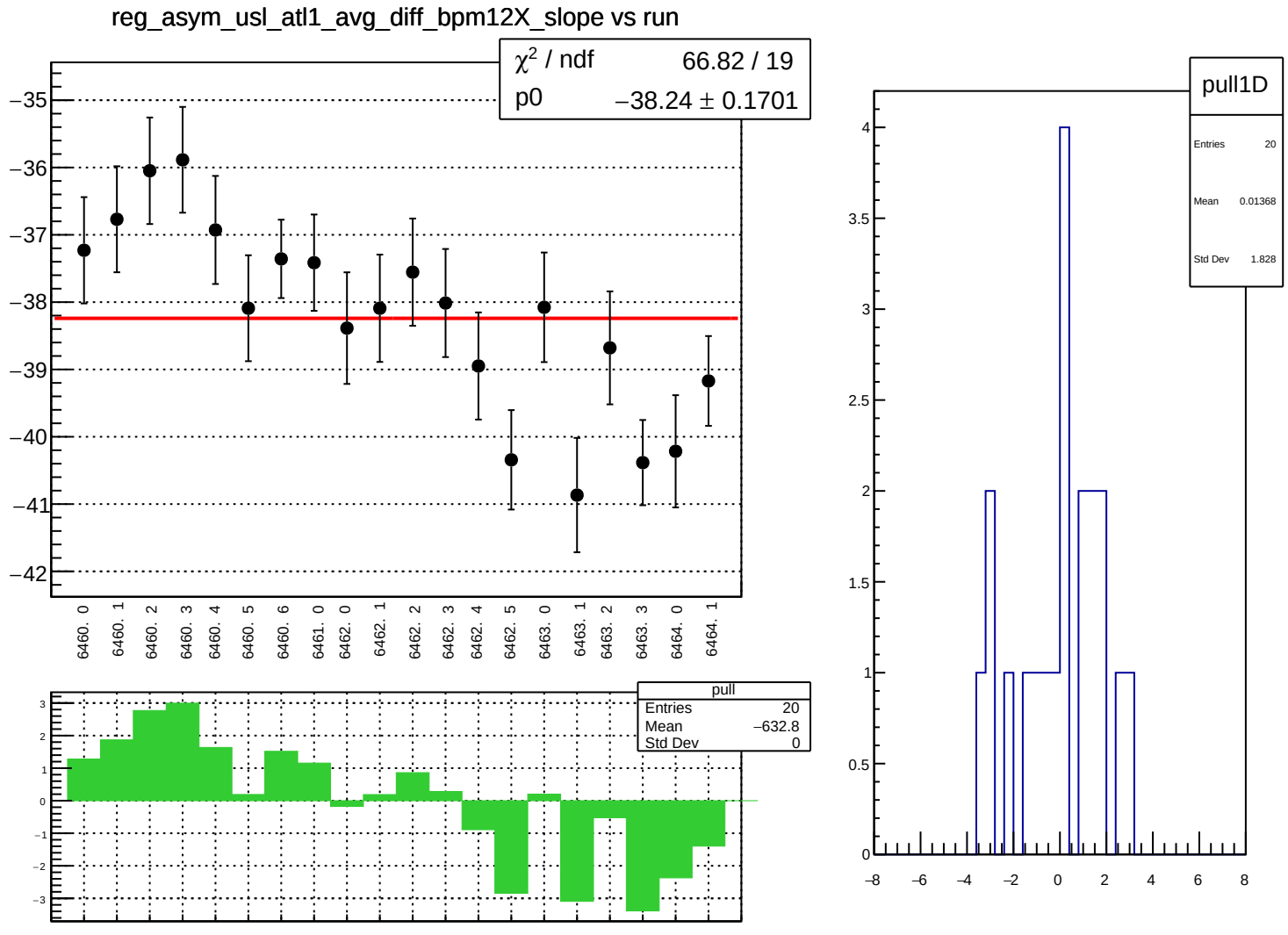

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 15.65 / 19
p0 −94.13 ± 3.442
−60
−80
−100
−120
−140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 200.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.009834
Std Dev 0.8845
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

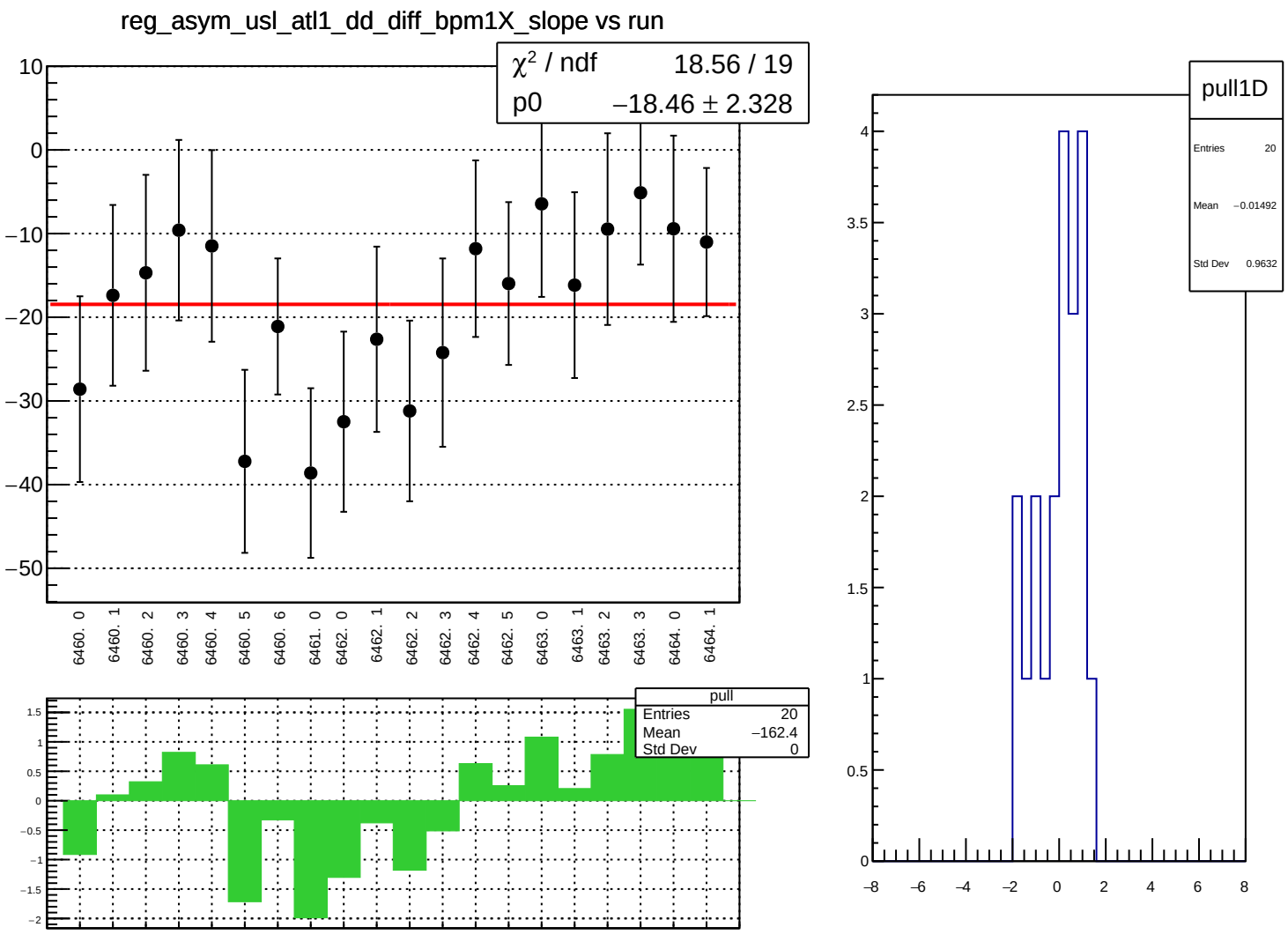

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.7 / 19
p0 37.73 ± 4.026
100
80
60
40
20
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −82.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.03233
Std Dev 0.8568
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

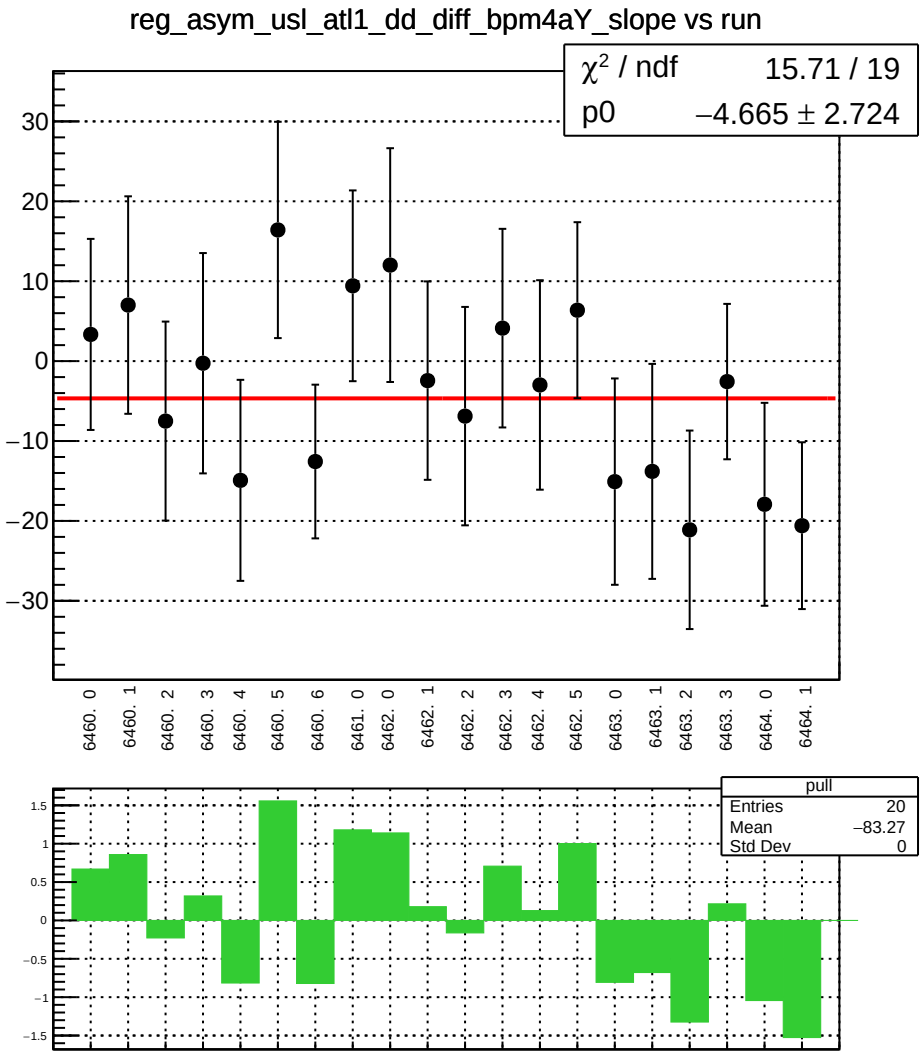

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.6 / 19
p0 92.8 ± 3.412
140
120
100
80
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 171.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01222
Std Dev 0.883
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

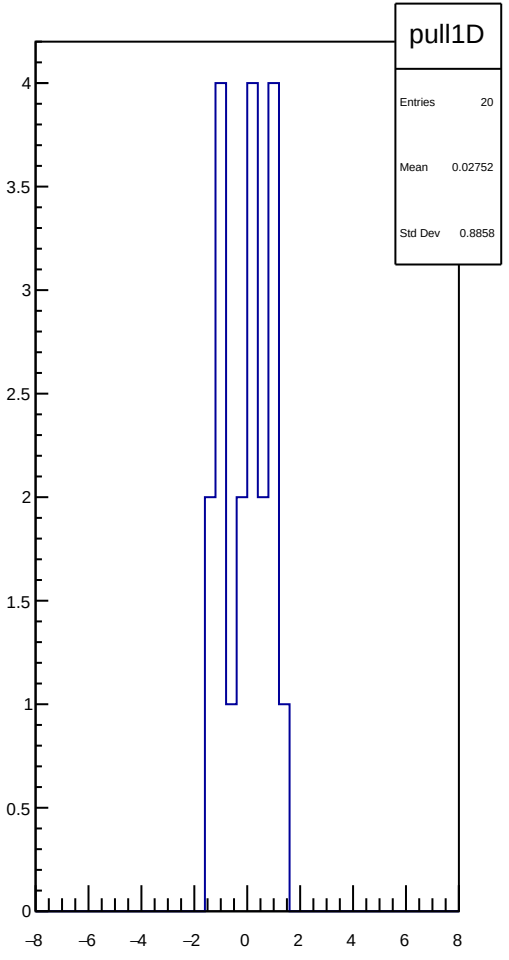

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.18 / 19
p0 −51.47 ± 4.069
0
−20
−40
−60
−80
−100
−120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −161.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

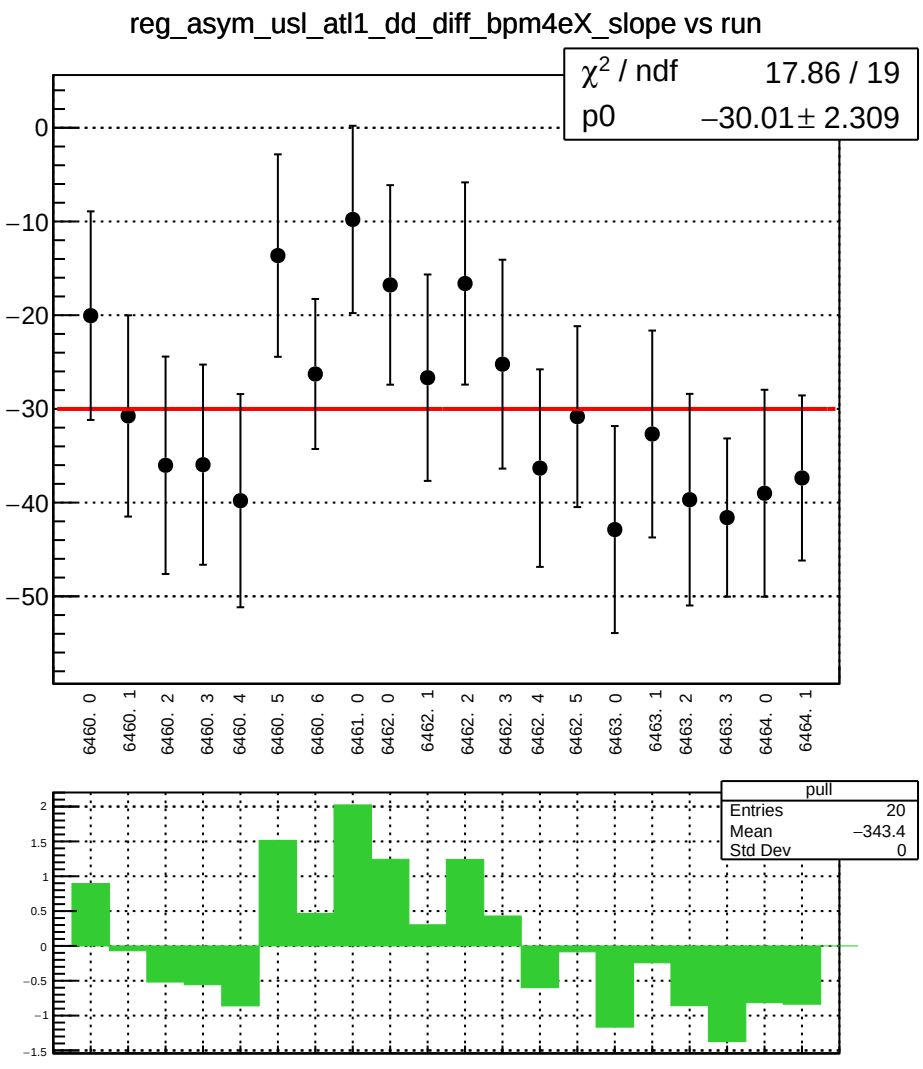

pull1D
Entries 20
Mean 0.02653
Std Dev 1.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

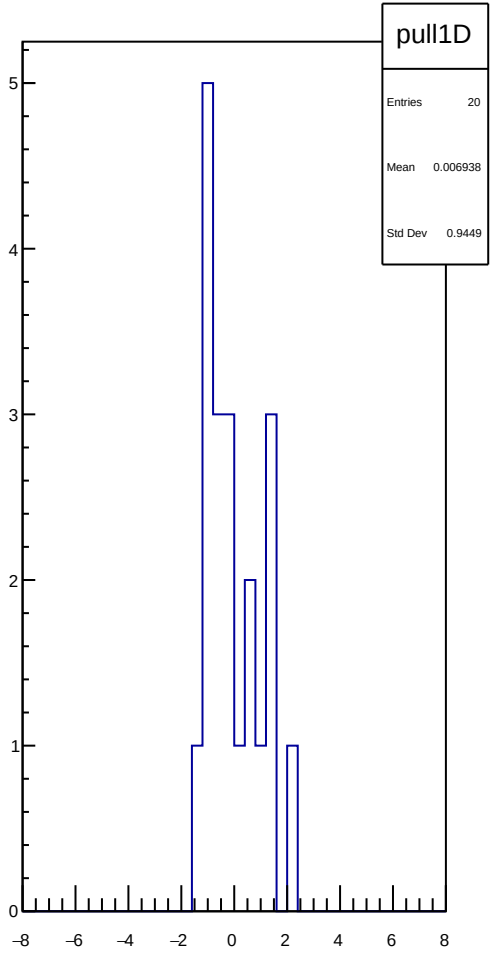

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 66.82 / 19
p0 −38.24 ± 0.1701
−35
−36
−37
−38
−39
−40
−41
−42
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −632.8
Std Dev 0
pull1D
Entries 20
Mean 0.01368
Std Dev 1.828

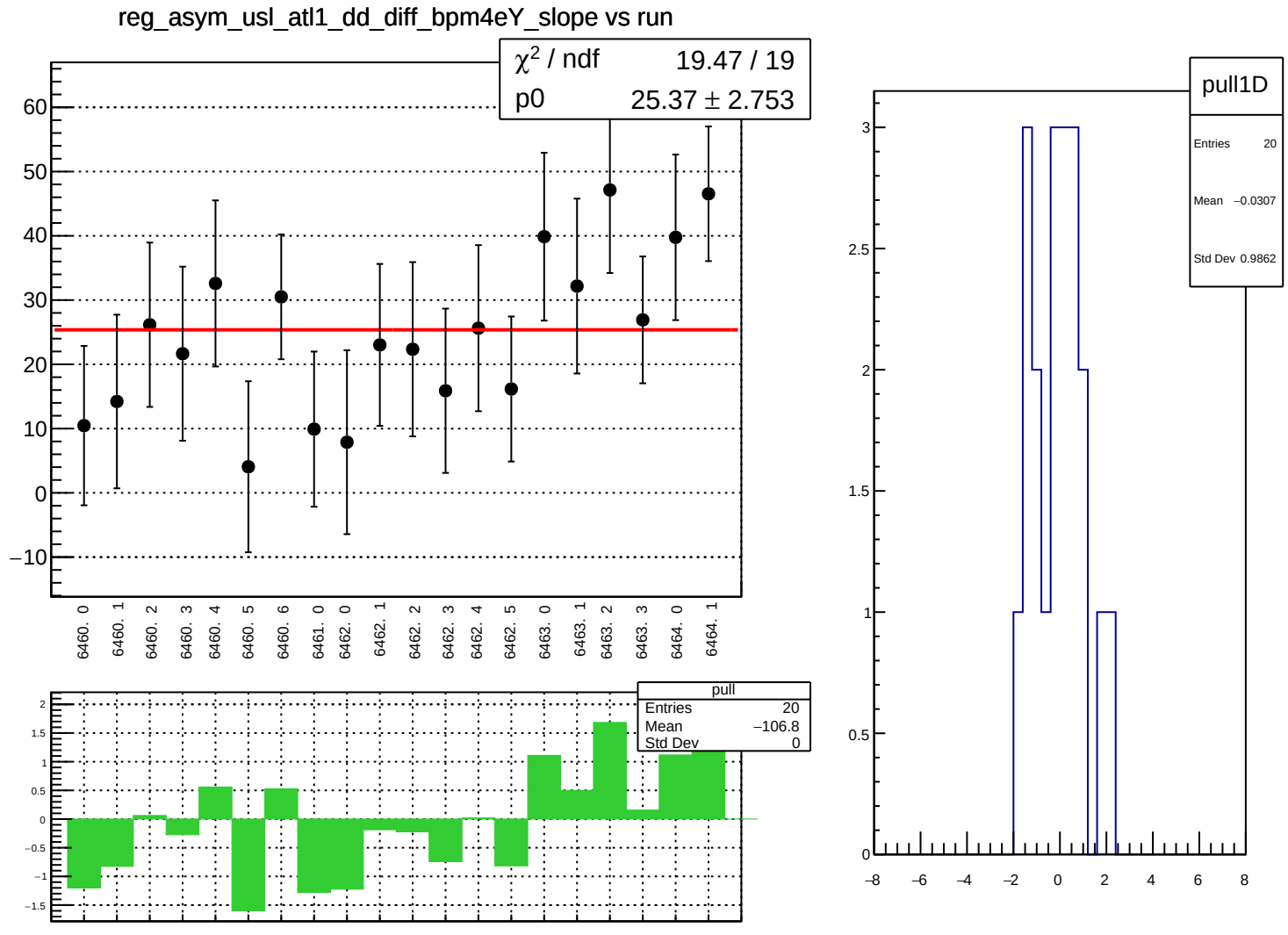

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 18.56 / 19
p0 −18.46 ± 2.328
10
0
−10
−20
−30
−40
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −162.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.01492
Std Dev 0.9632
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

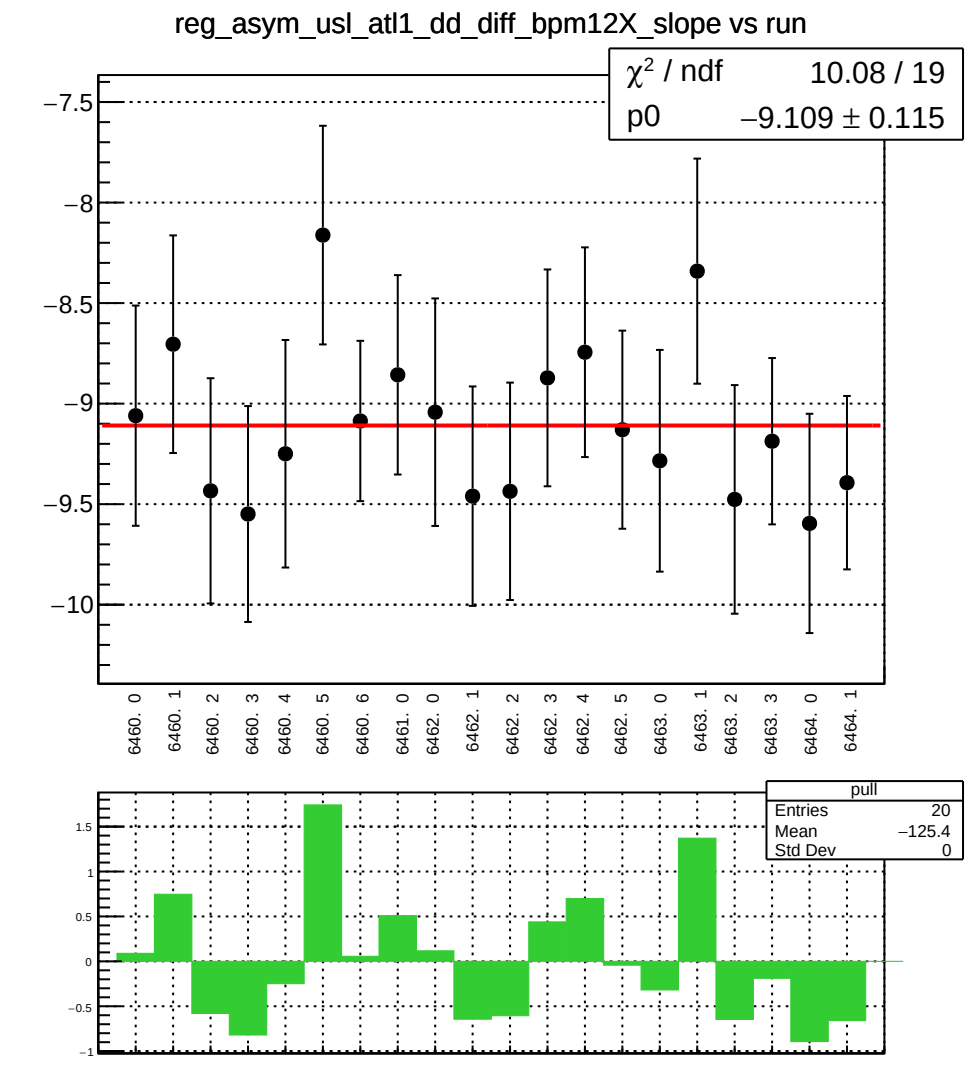

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.71 / 19
p0 −4.665 ± 2.724
30
20
10
0
−10
−20
−30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −83.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

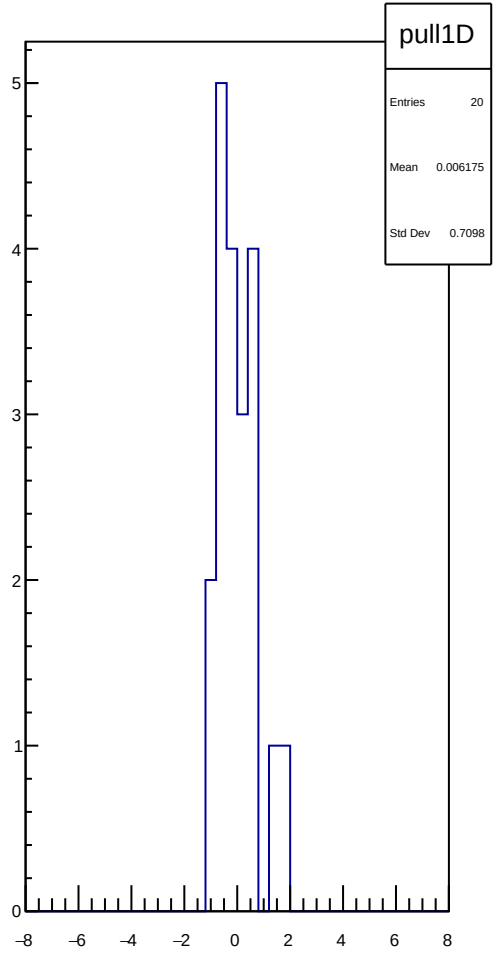

pull1D
Entries 20
Mean 0.02752
Std Dev 0.8858
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

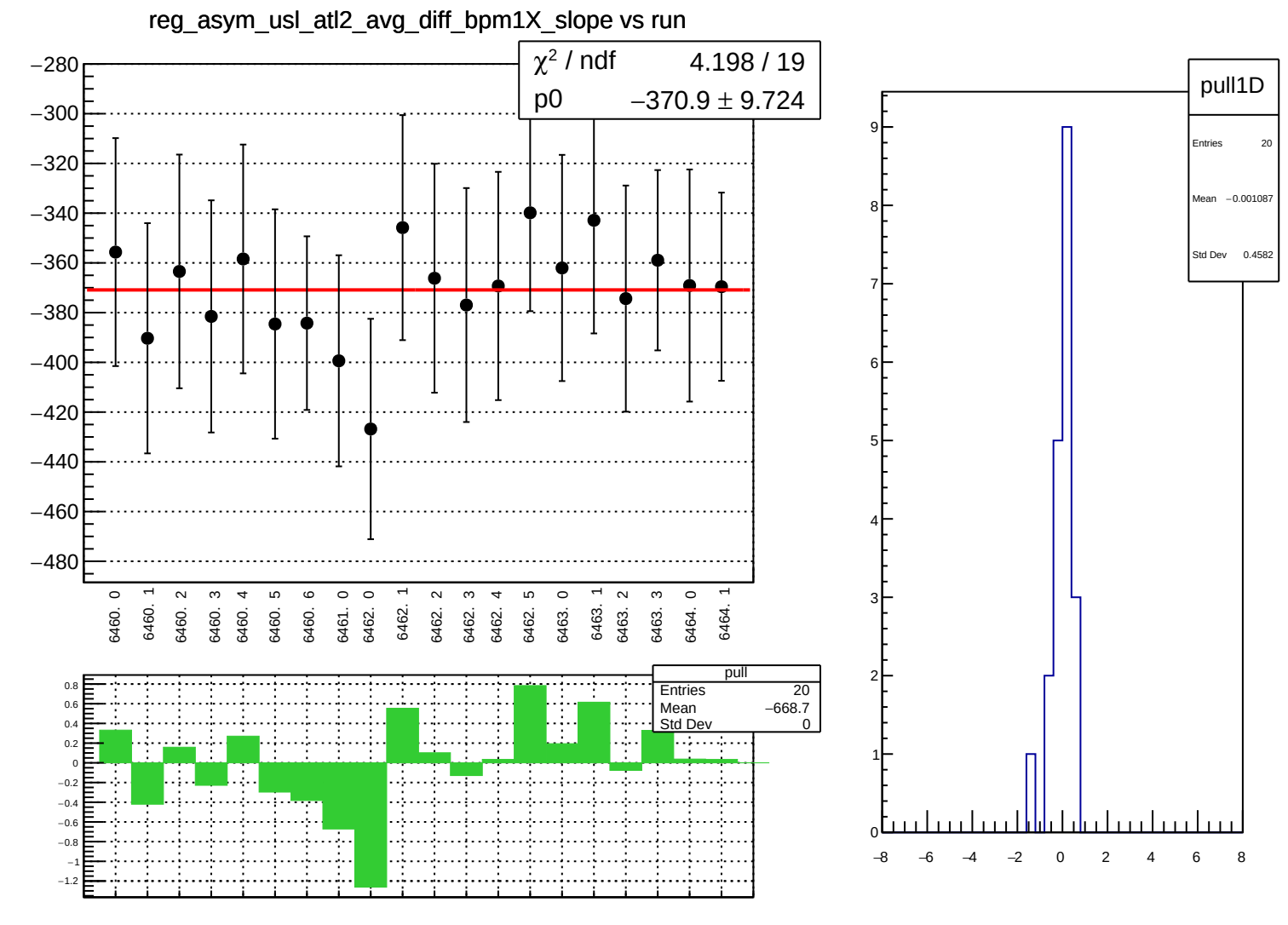

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.86 / 19
p0 −30.01± 2.309
0
−10
−20
−30
−40
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −343.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

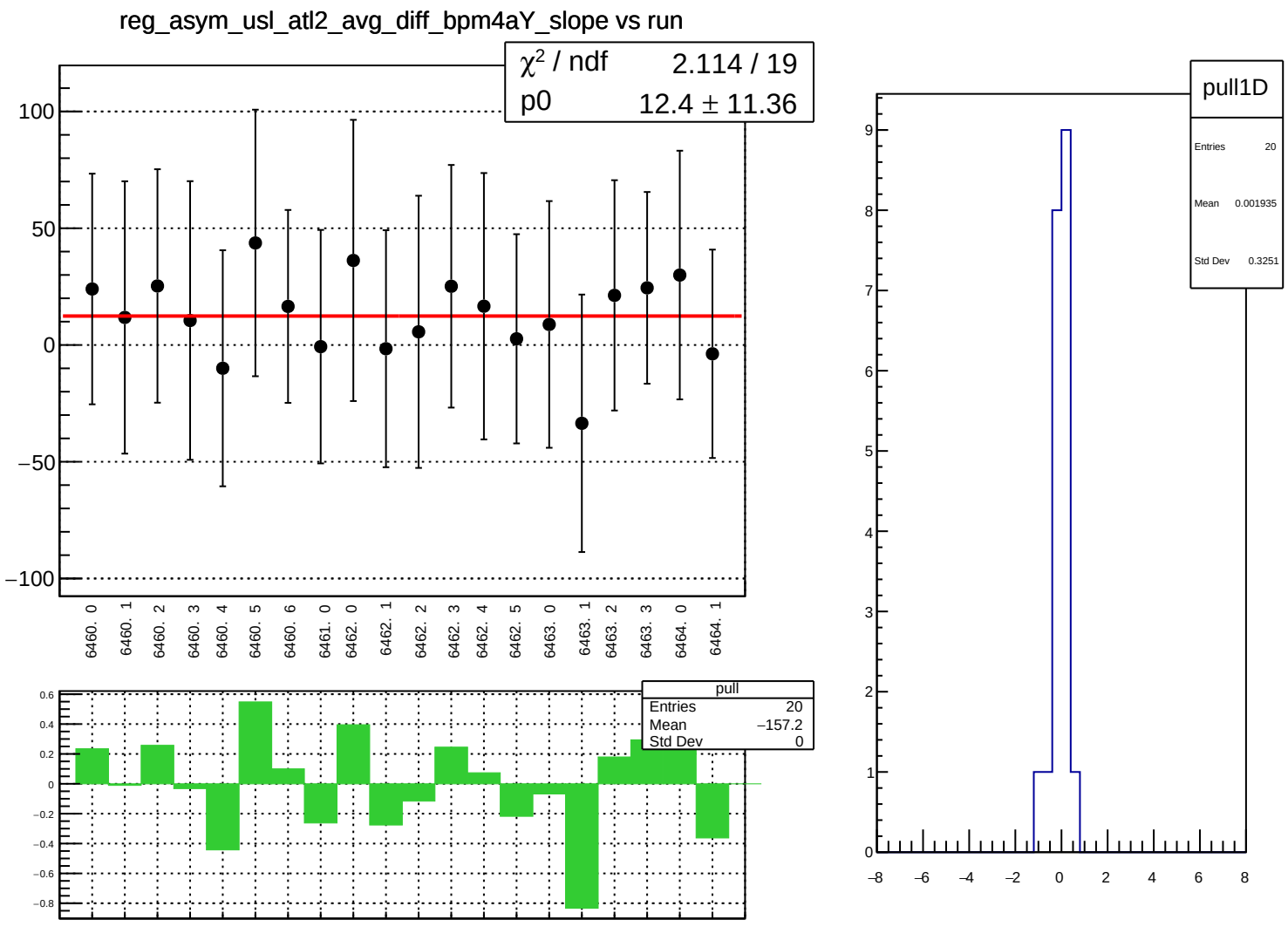

pull1D
Entries 20
Mean 0.006938
Std Dev 0.9449
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

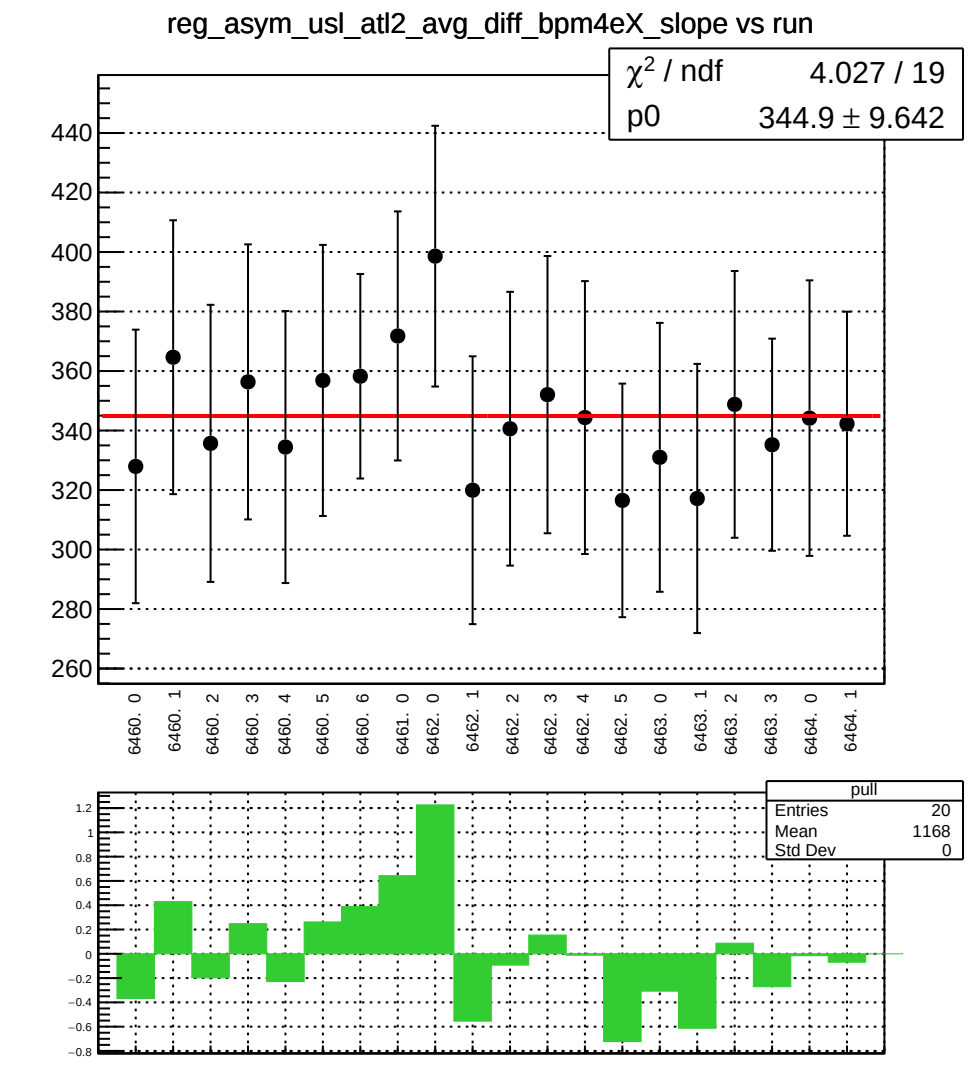

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.47 / 19
p0 25.37 ± 2.753
60
50
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −106.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0307
Std Dev 0.9862
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

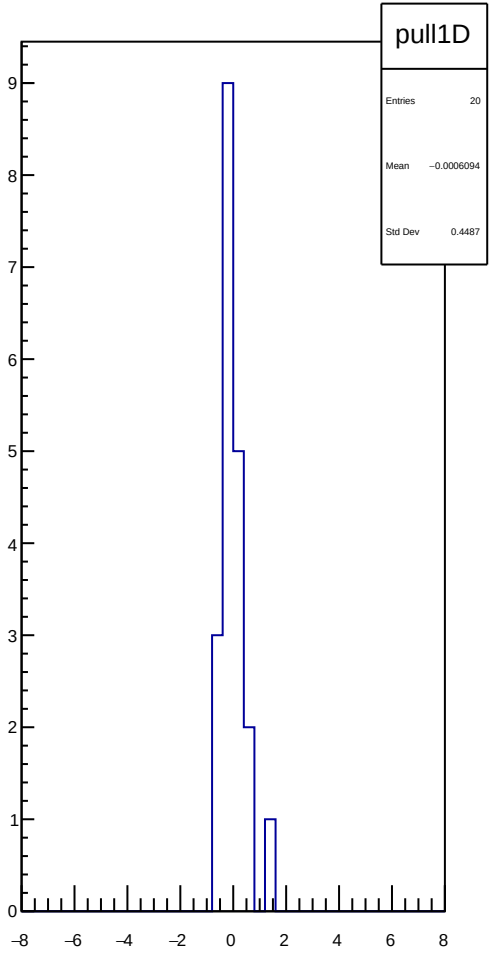

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 10.08 / 19
p0 −9.109 ± 0.115
−7.5
−8
−8.5
−9
−9.5
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −125.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

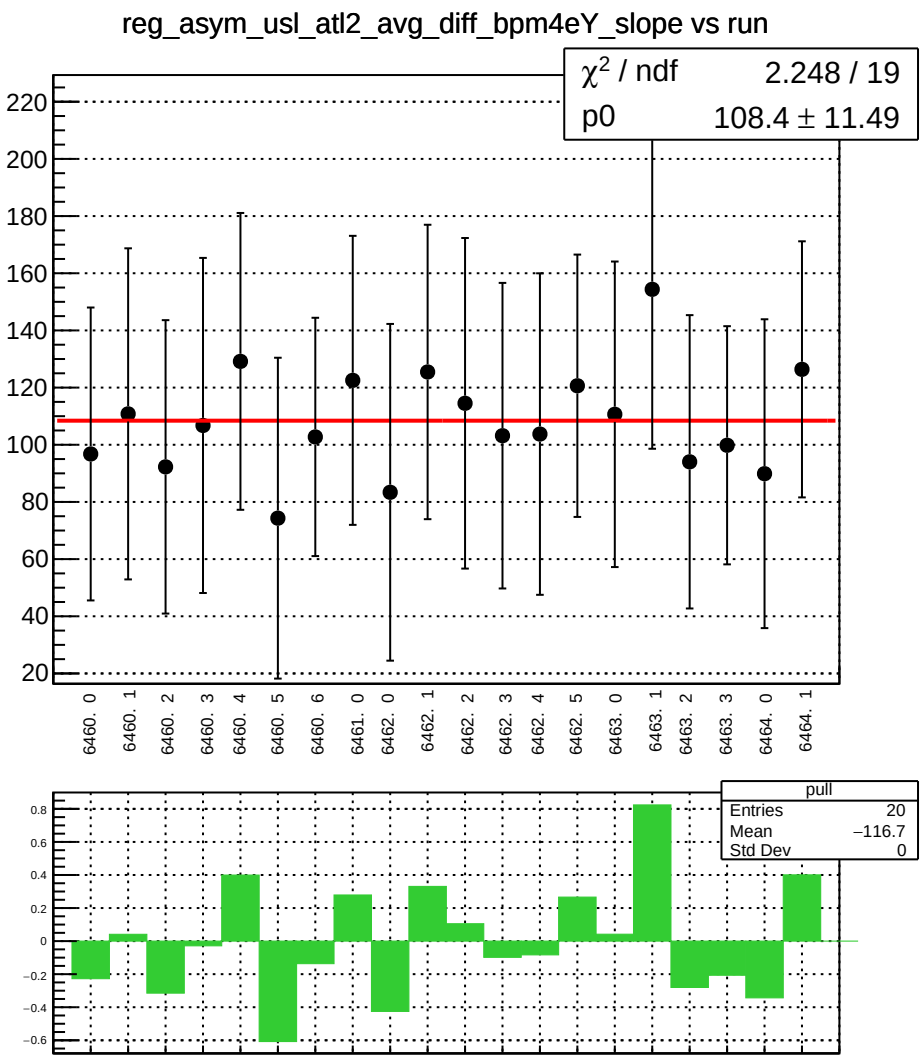

pull1D
Entries 20
Mean 0.006175
Std Dev 0.7098
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

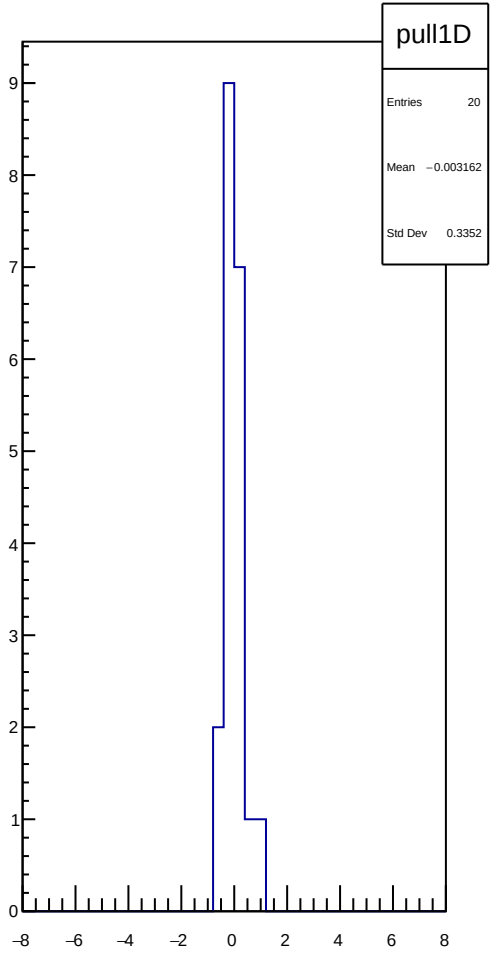

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.198 / 19
p0 −370.9 ± 9.724
−280
−300
−320
−340
−360
−380
−400
−420
−440
−460
−480
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −668.7
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 20
Mean −0.001087
Std Dev 0.4582
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

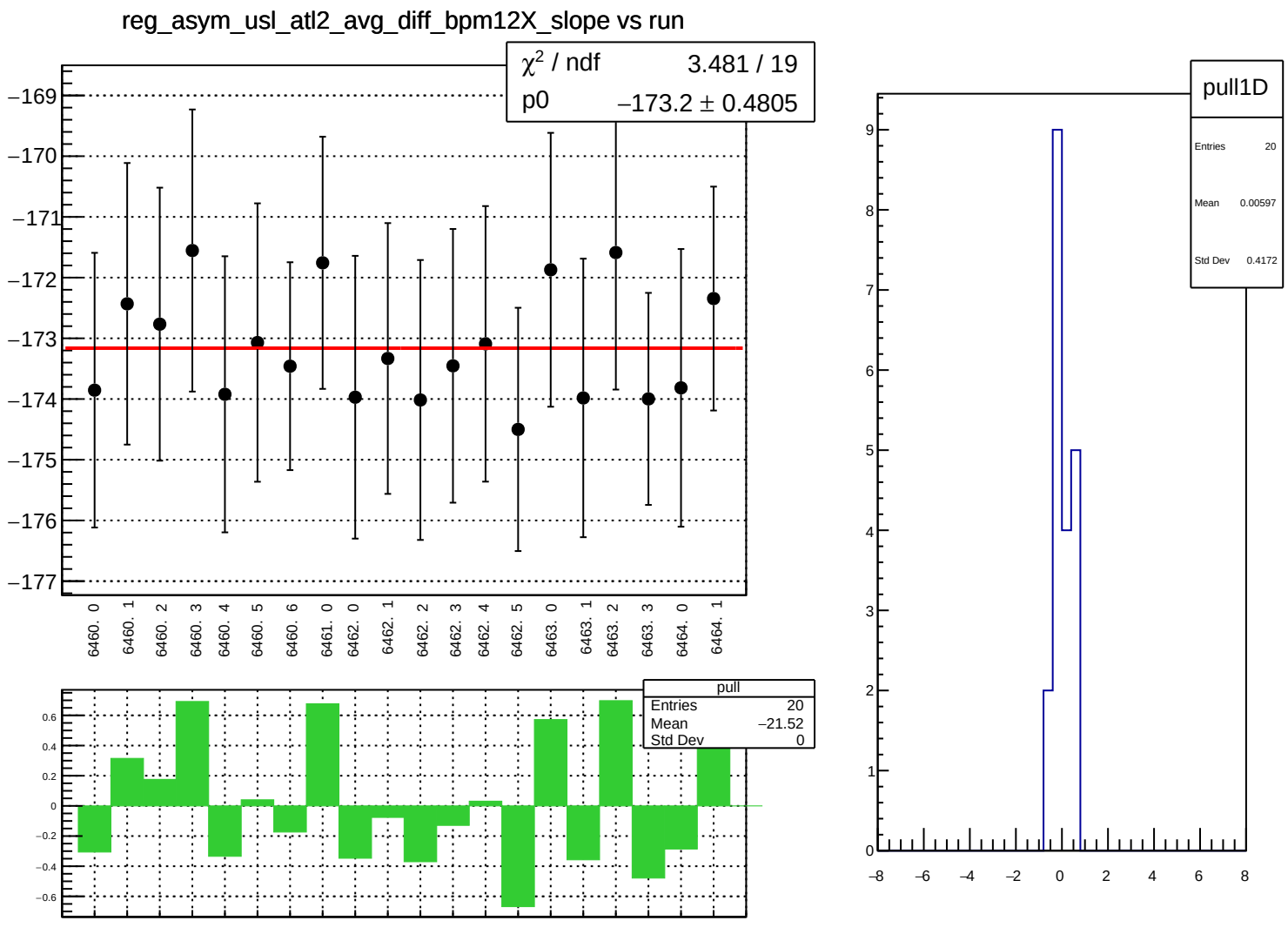

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.114 / 19
p0 12.4 ± 11.36
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −157.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.001935
Std Dev 0.3251
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

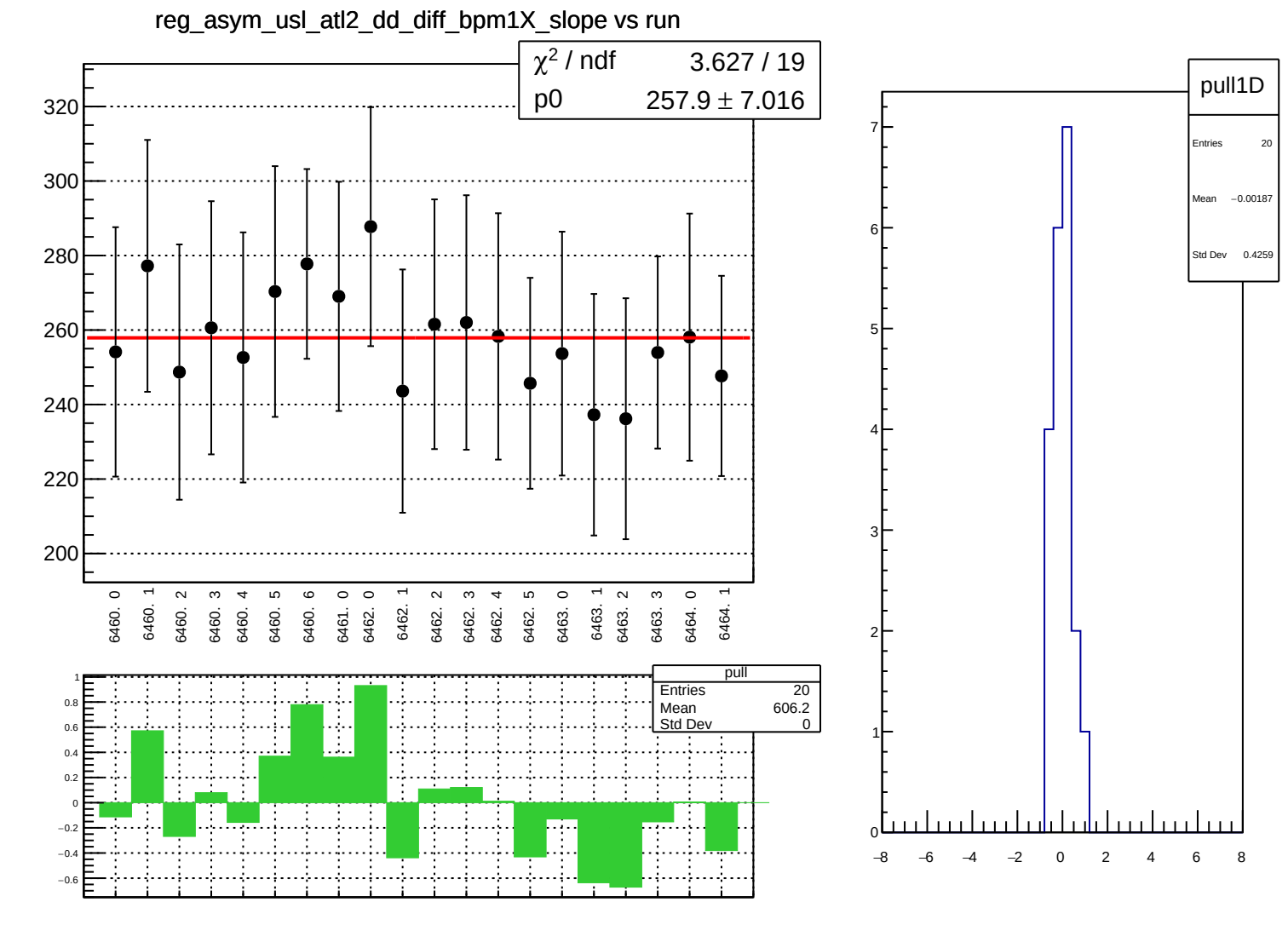

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.027 / 19
p0 344.9 ± 9.642
440
420
400
380
360
340
320
300
280
260
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1168
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

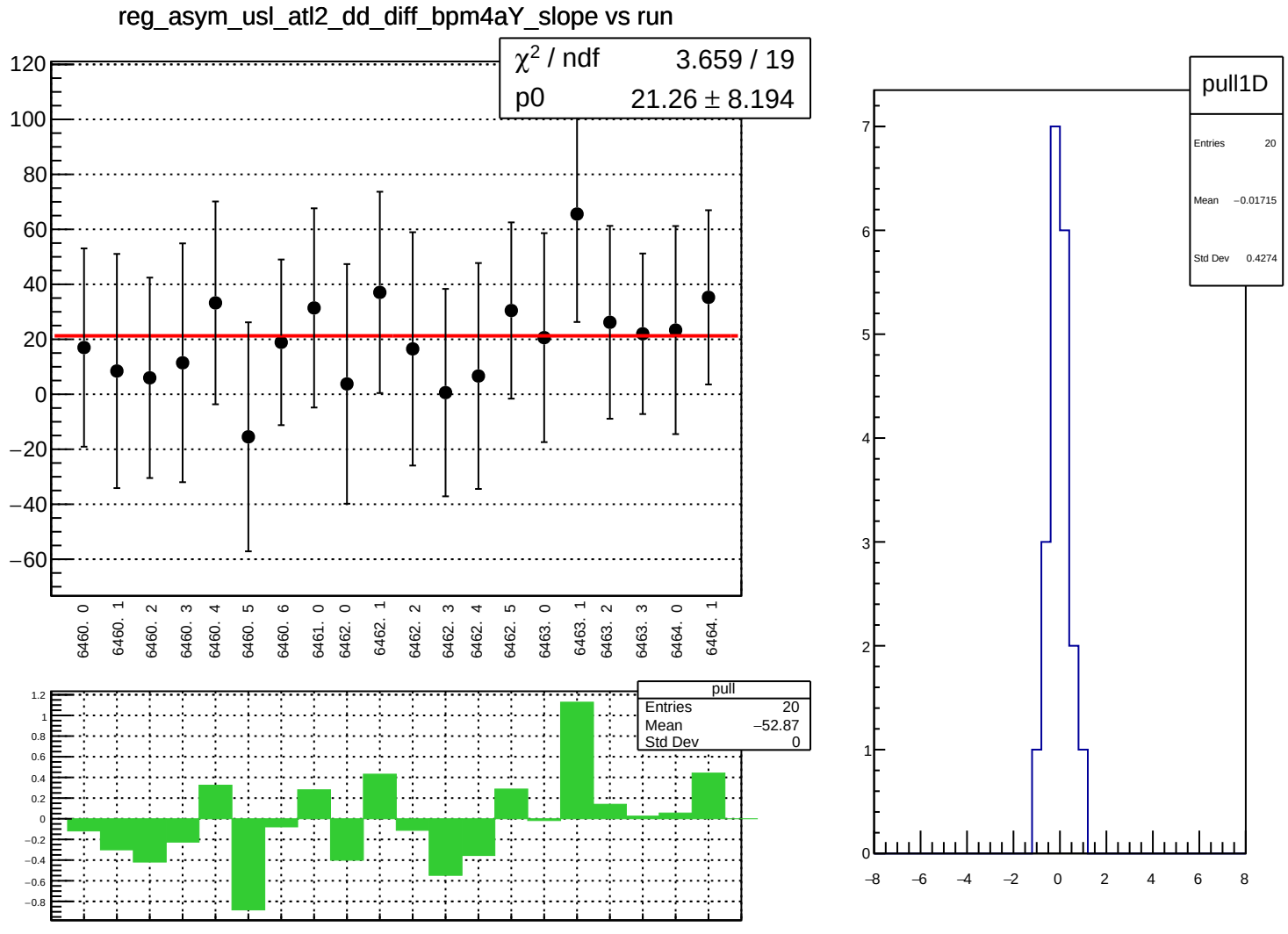

pull1D
Entries 20
Mean −0.0006094
Std Dev 0.4487
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

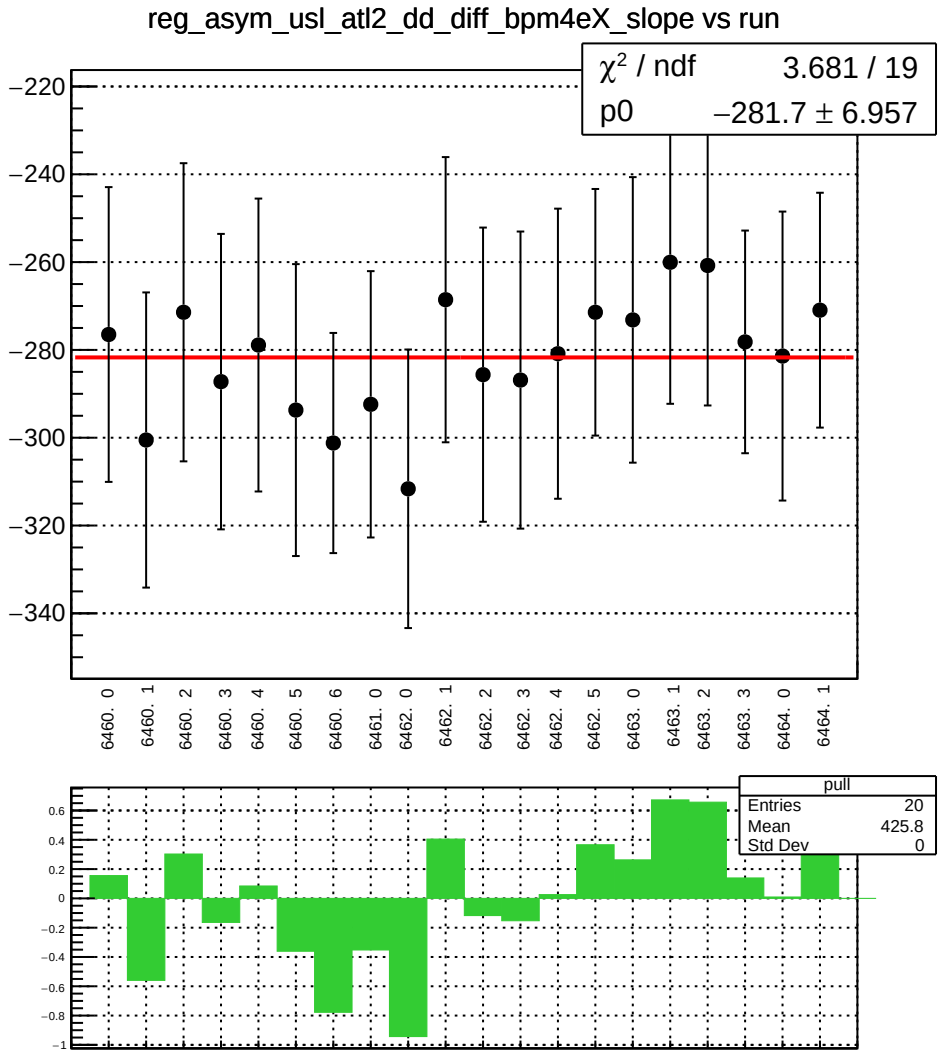

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.248 / 19
p0 108.4 ± 11.49
220
200
180
160
140
120
100
80
60
40
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −116.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

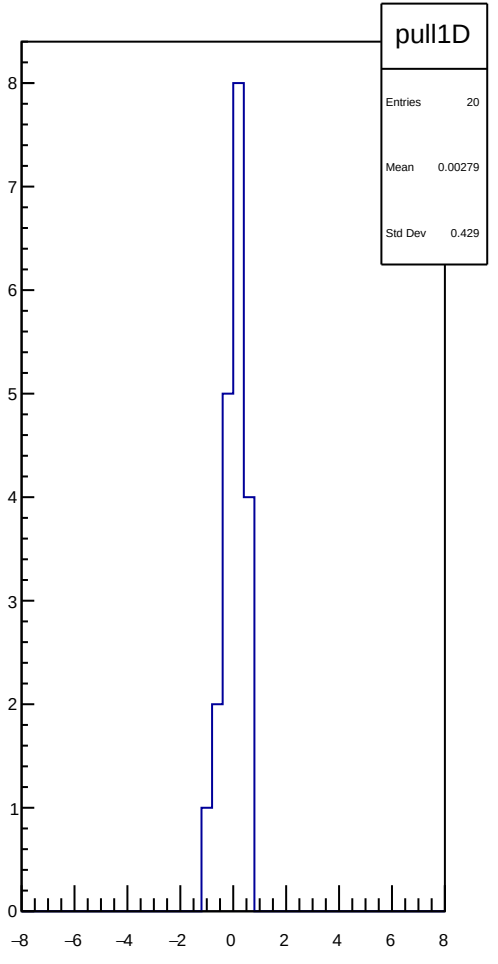

pull1D
Entries 20
Mean −0.003162
Std Dev 0.3352
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

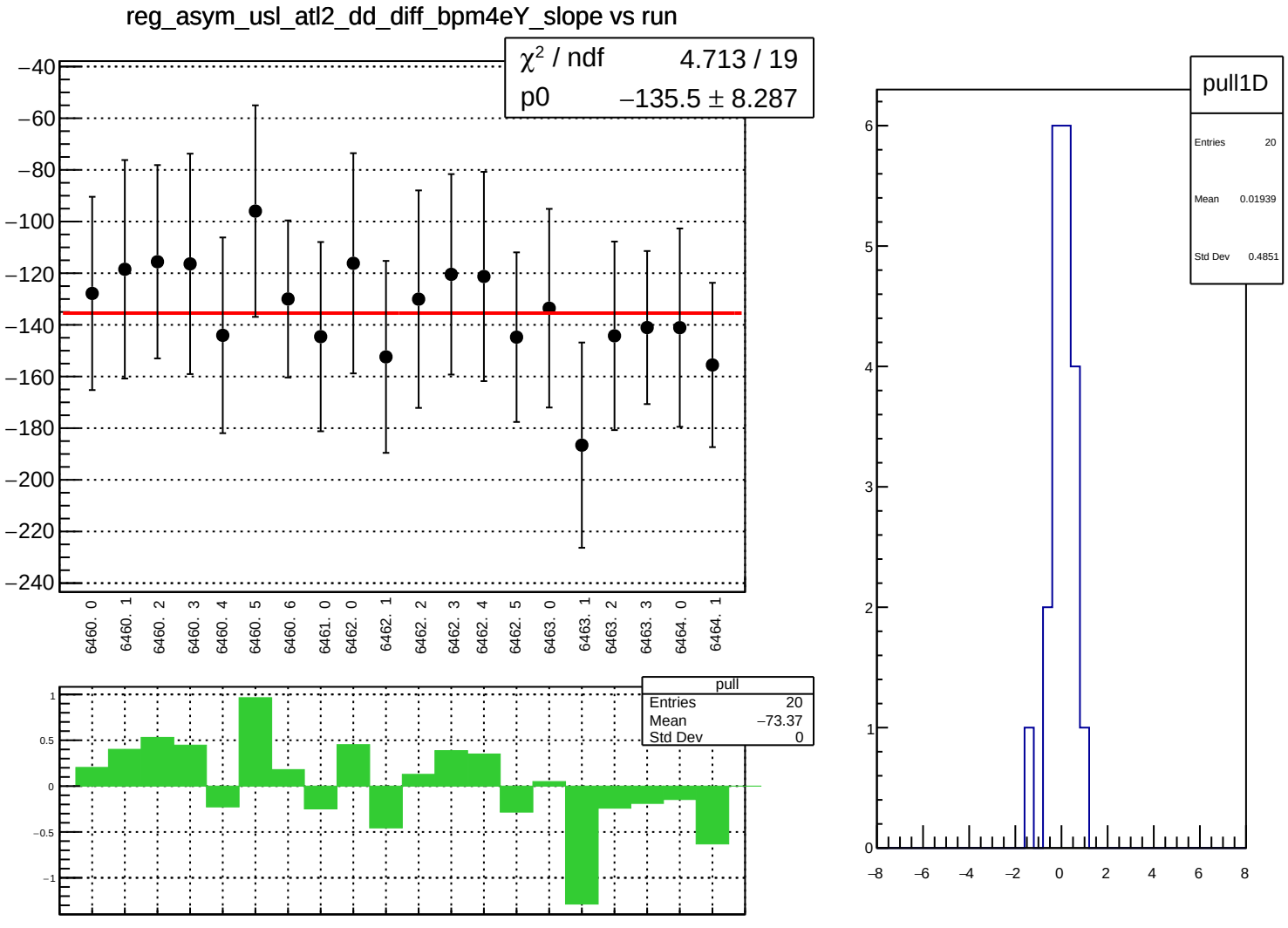

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.481 / 19
p0 −173.2 ± 0.4805
−169
−170
−171
−172
−173
−174
−175
−176
−177
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −21.52
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.00597
Std Dev 0.4172
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

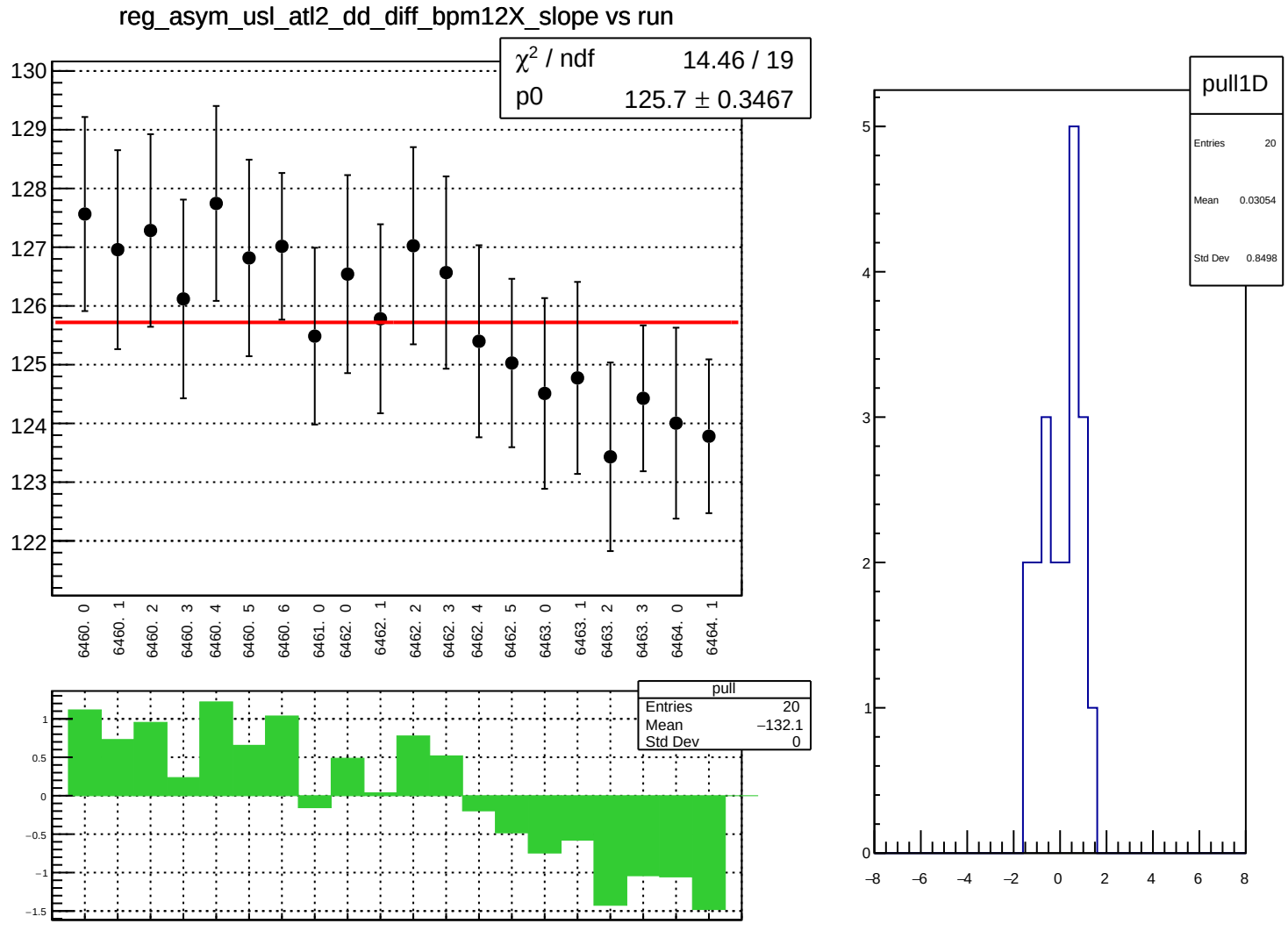

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 3.627 / 19
p0 257.9 ± 7.016
320
300
280
260
240
220
200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 606.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.00187
Std Dev 0.4259
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

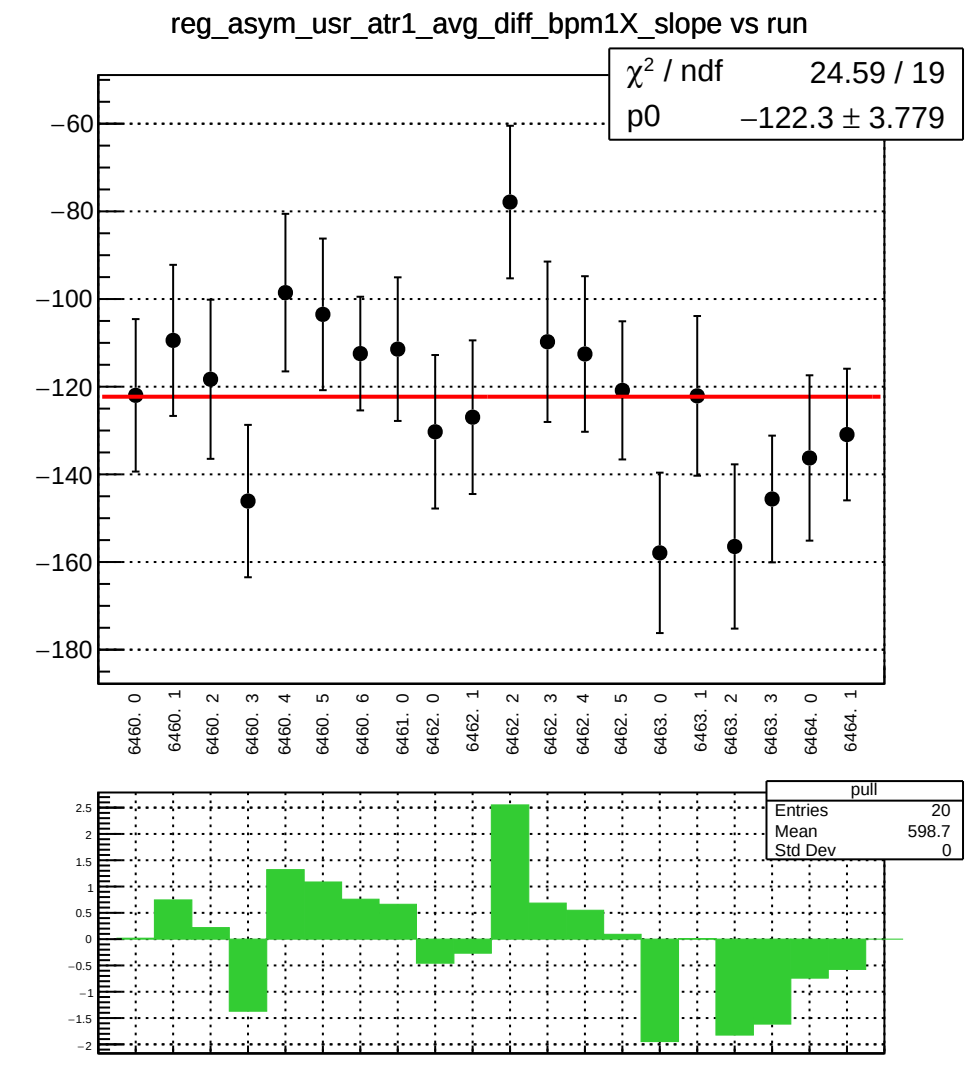

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.659 / 19
p0 21.26 ± 8.194
120
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.87
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.01715
Std Dev 0.4274
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

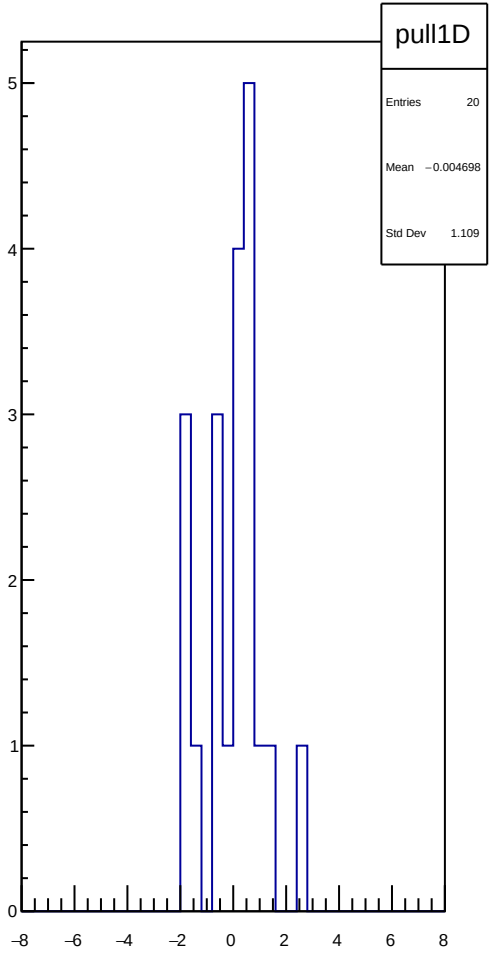

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.681 / 19
p0 −281.7 ± 6.957
−220
−240
−260
−280
−300
−320
−340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 425.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

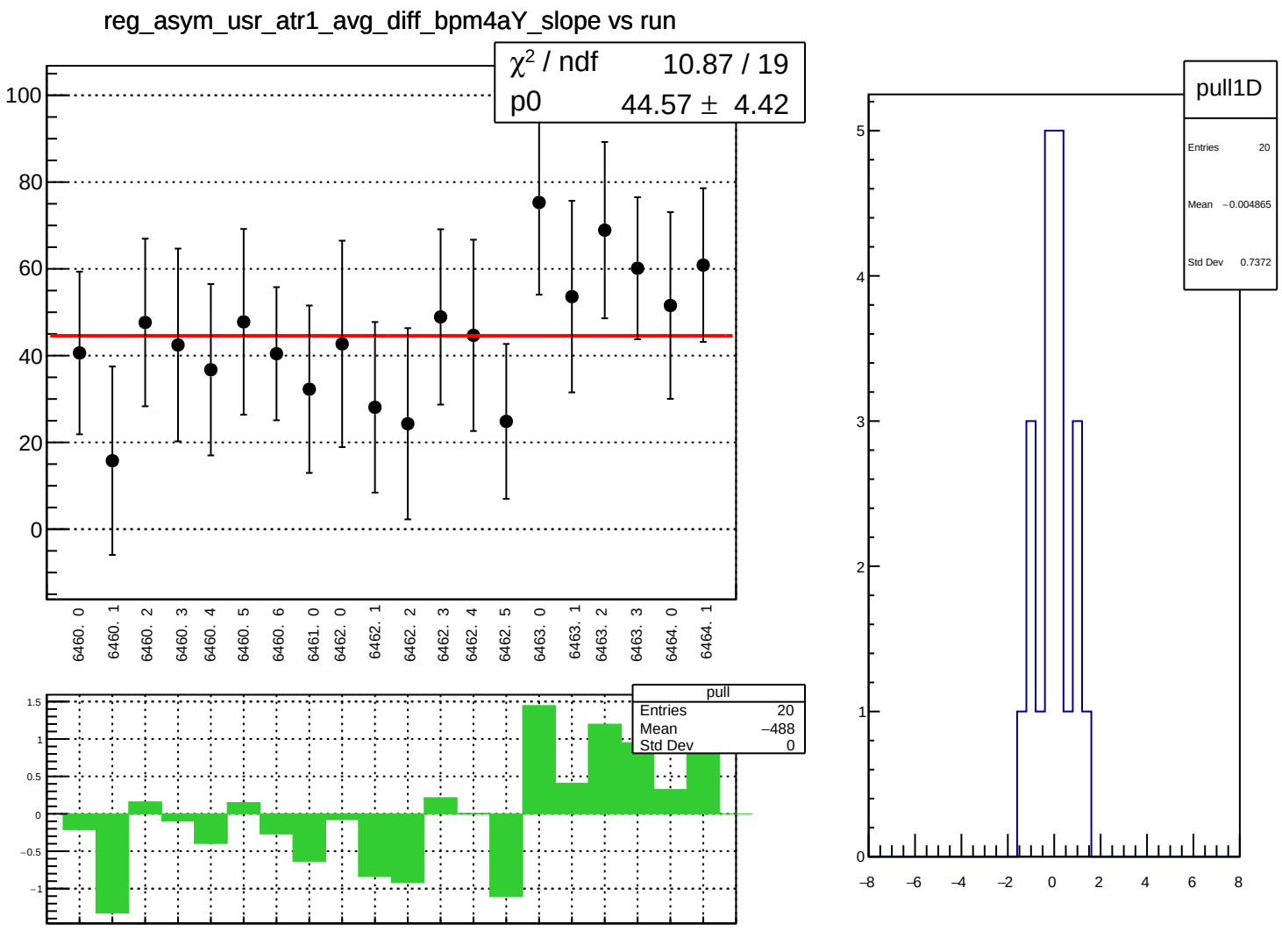

pull1D
Entries 20
Mean 0.00279
Std Dev 0.429
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

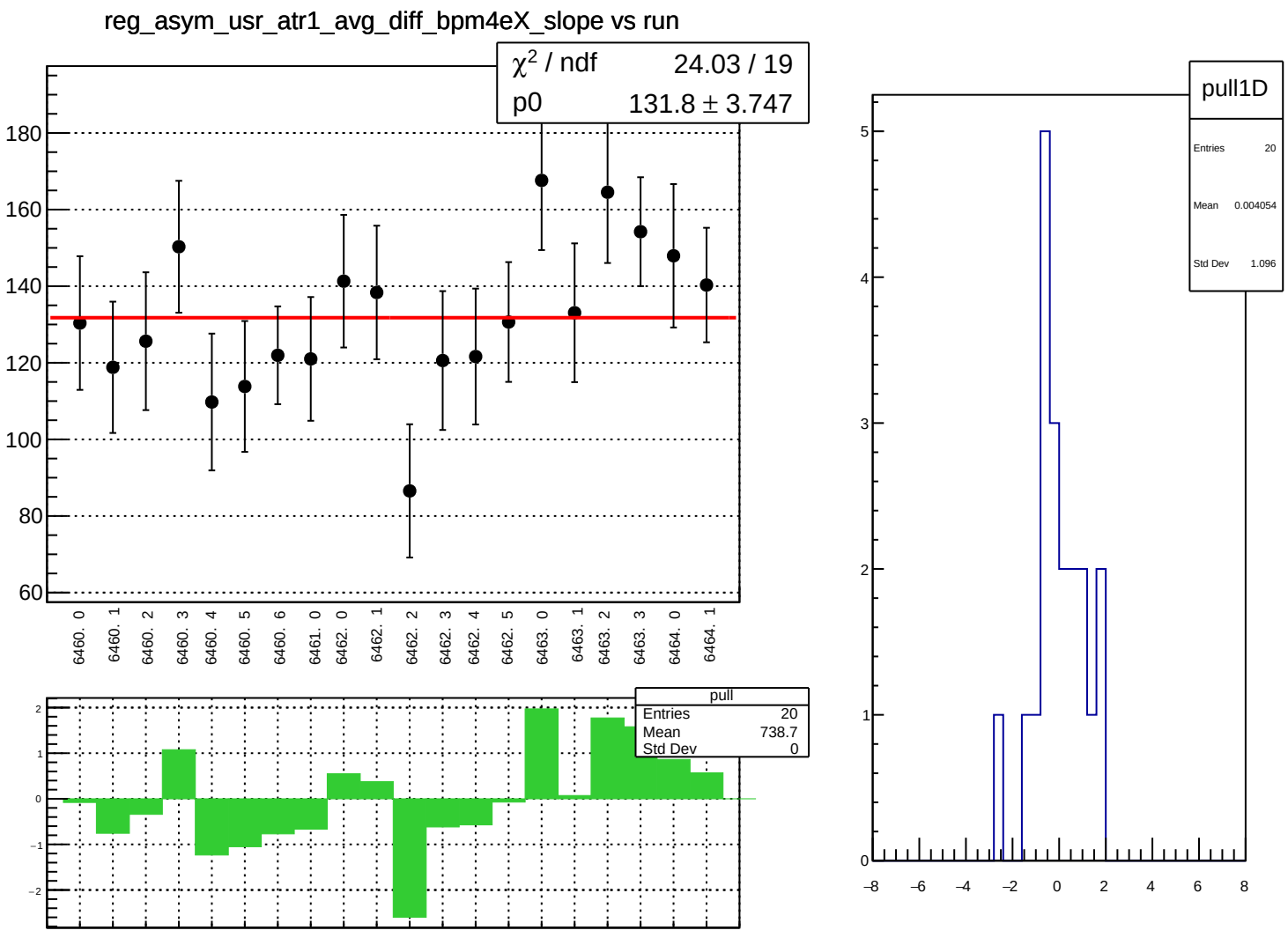

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.713 / 19
p0 −135.5 ± 8.287
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
−240
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −73.37
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01939
Std Dev 0.4851
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

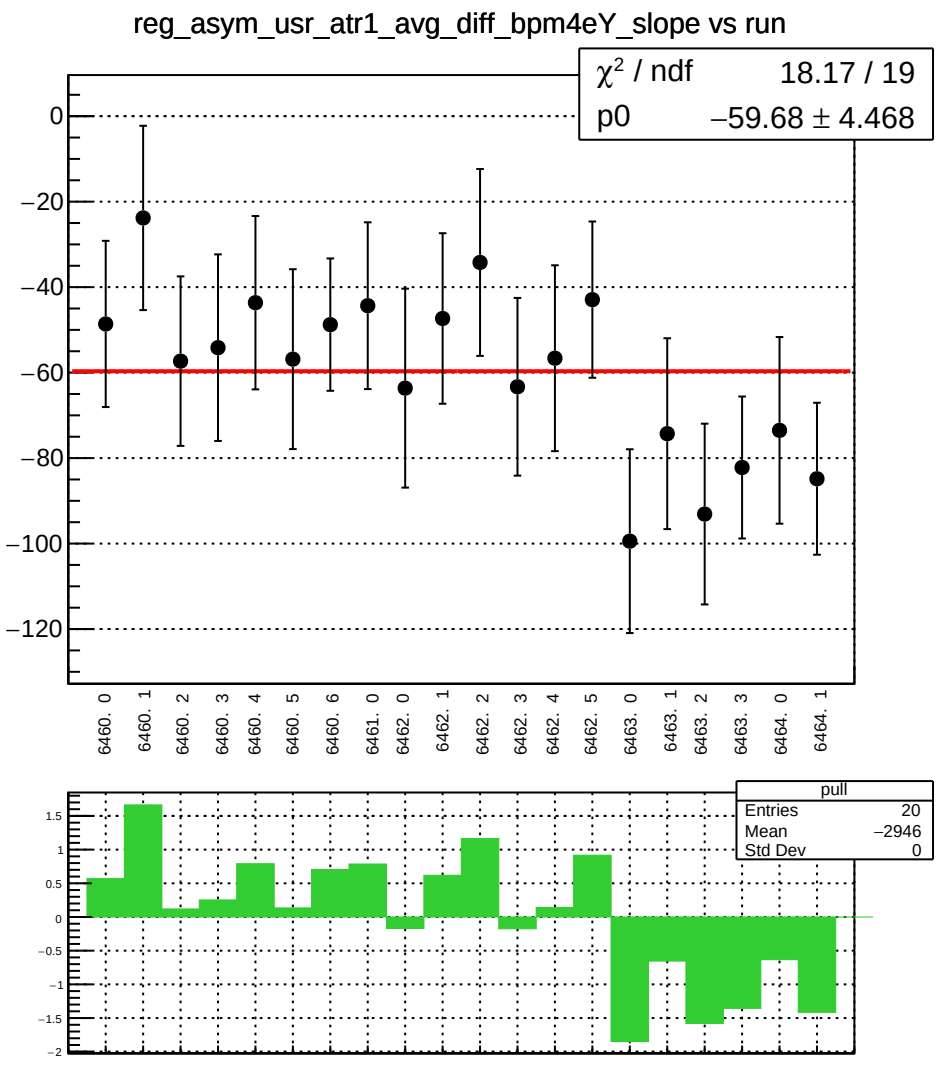

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 14.46 / 19
p0 125.7 ± 0.3467
130
129
128
127
126
125
124
123
122
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −132.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03054
Std Dev 0.8498
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

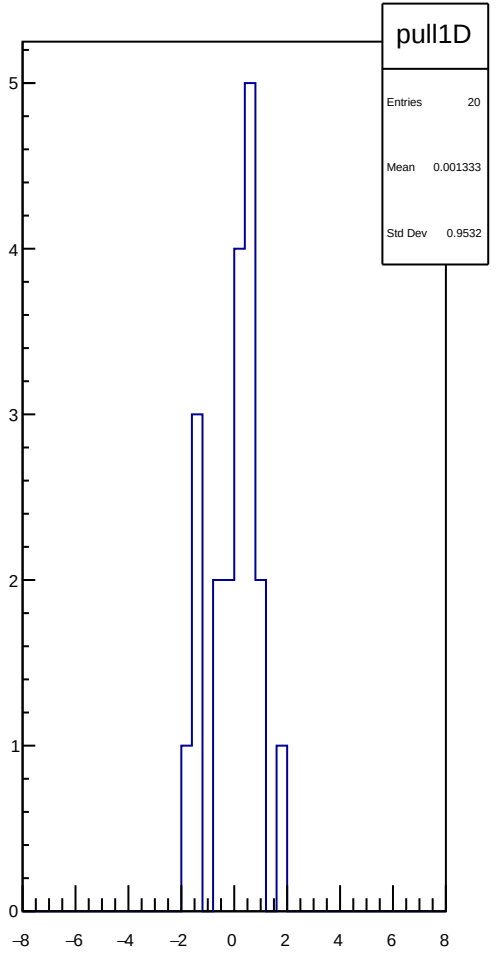

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 24.59 / 19
p0 −122.3 ± 3.779
−60
−80
−100
−120
−140
−160
−180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 598.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

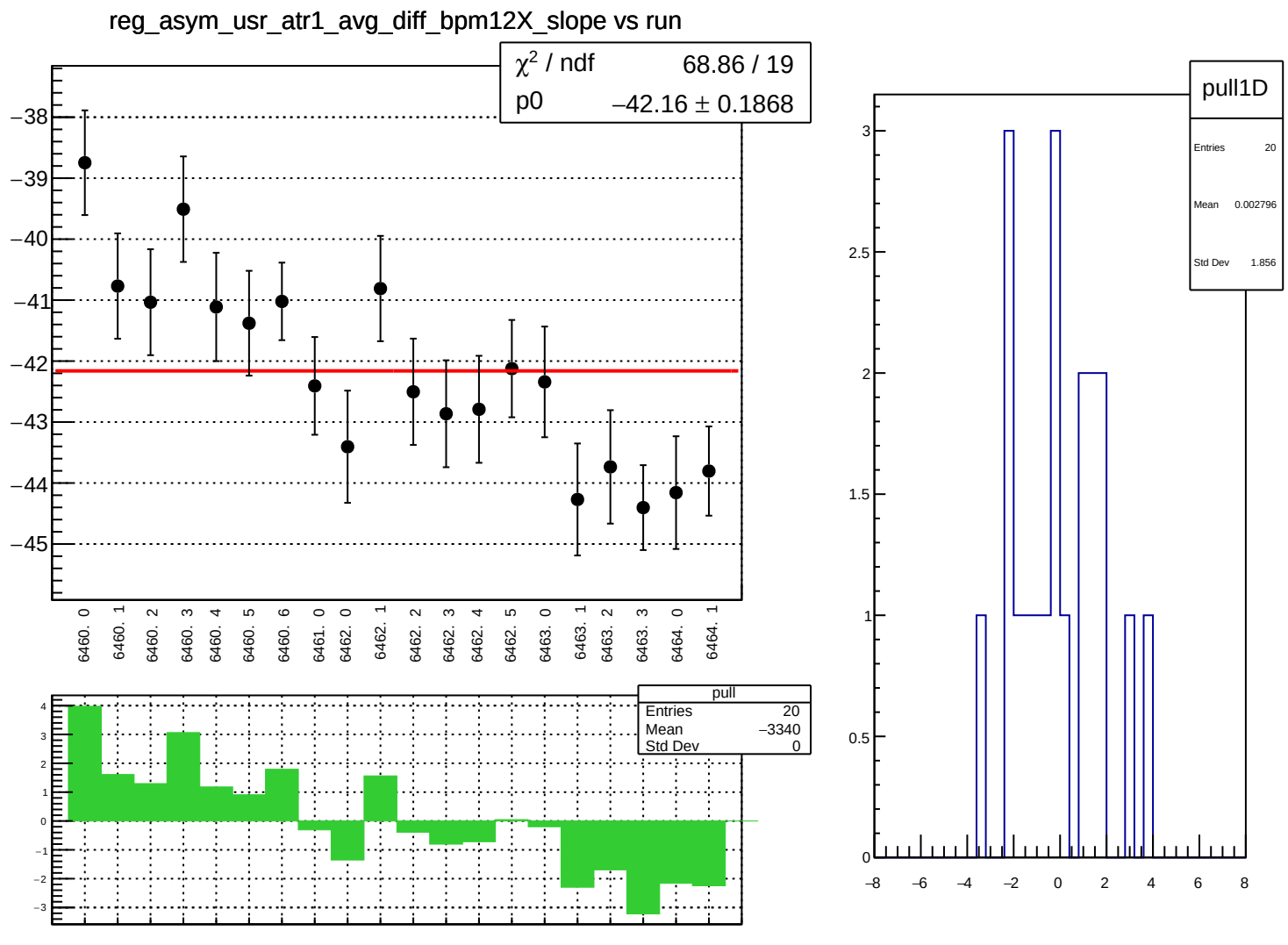

pull1D
Entries 20
Mean −0.004698
Std Dev 1.109
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

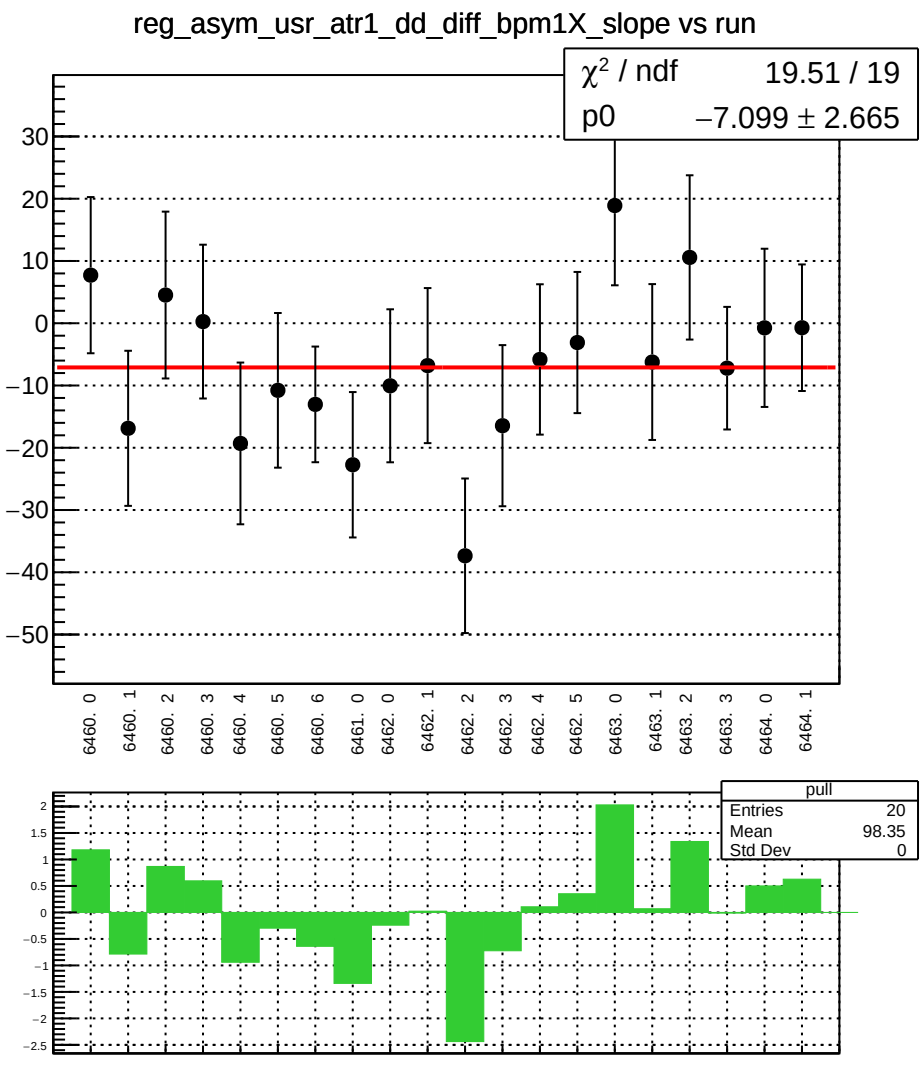

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.87 / 19
p0 44.57 ± 4.42
100
80
60
40
20
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −488
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.004865
Std Dev 0.7372
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

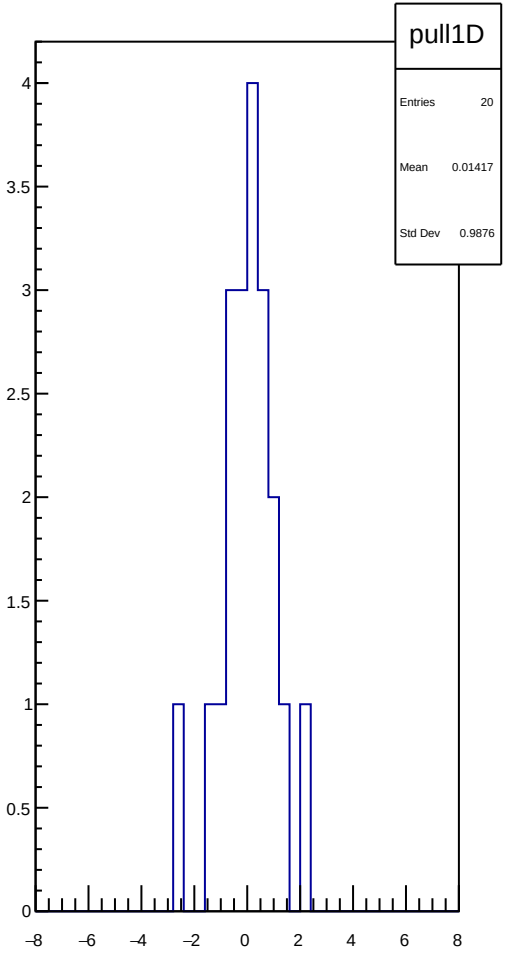

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.03 / 19
p0 131.8 ± 3.747
180
160
140
120
100
80
60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 738.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.004054
Std Dev 1.096
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

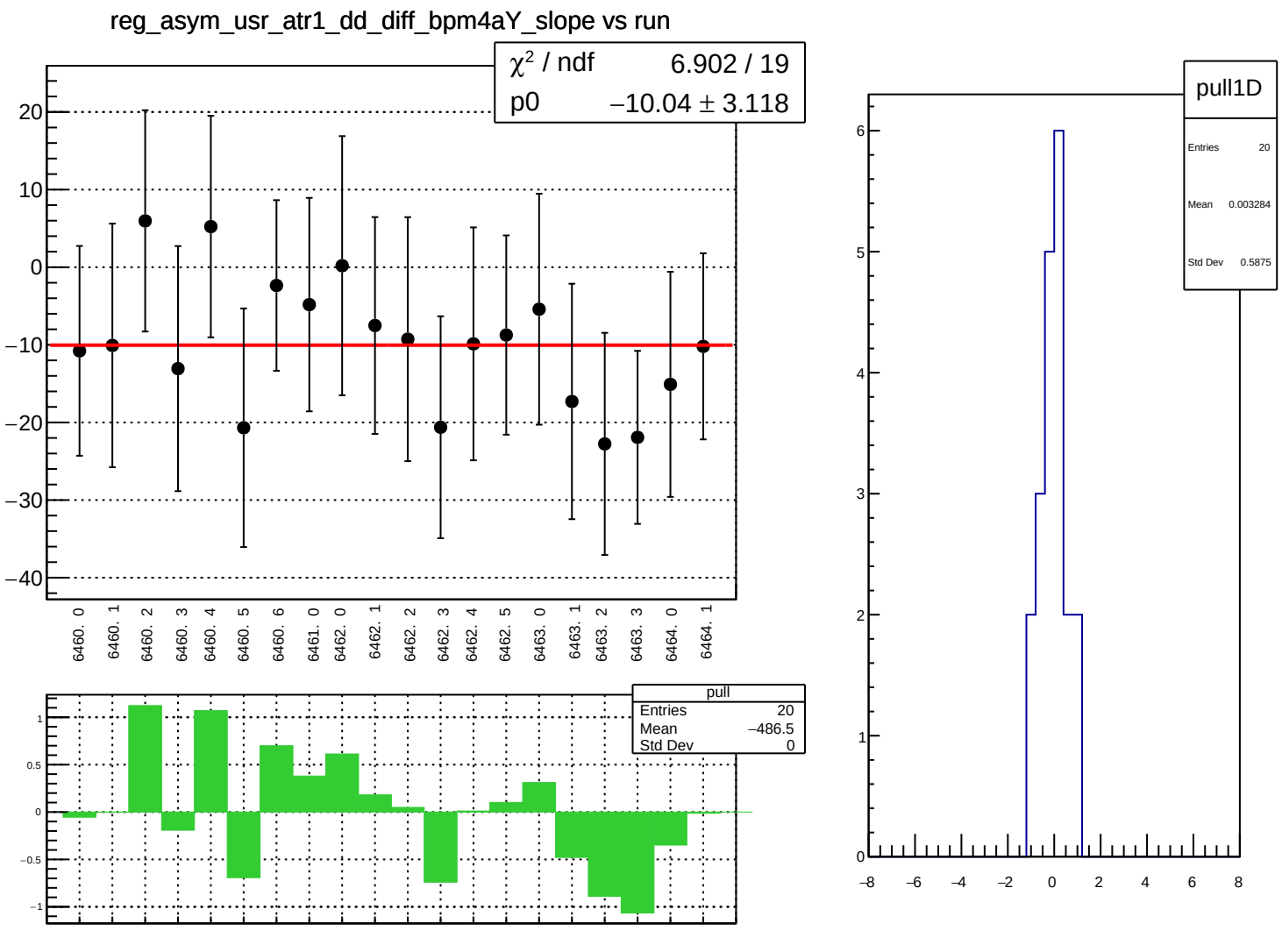

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.17 / 19
p0 −59.68 ± 4.468
0
−20
−40
−60
−80
−100
−120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −2946
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

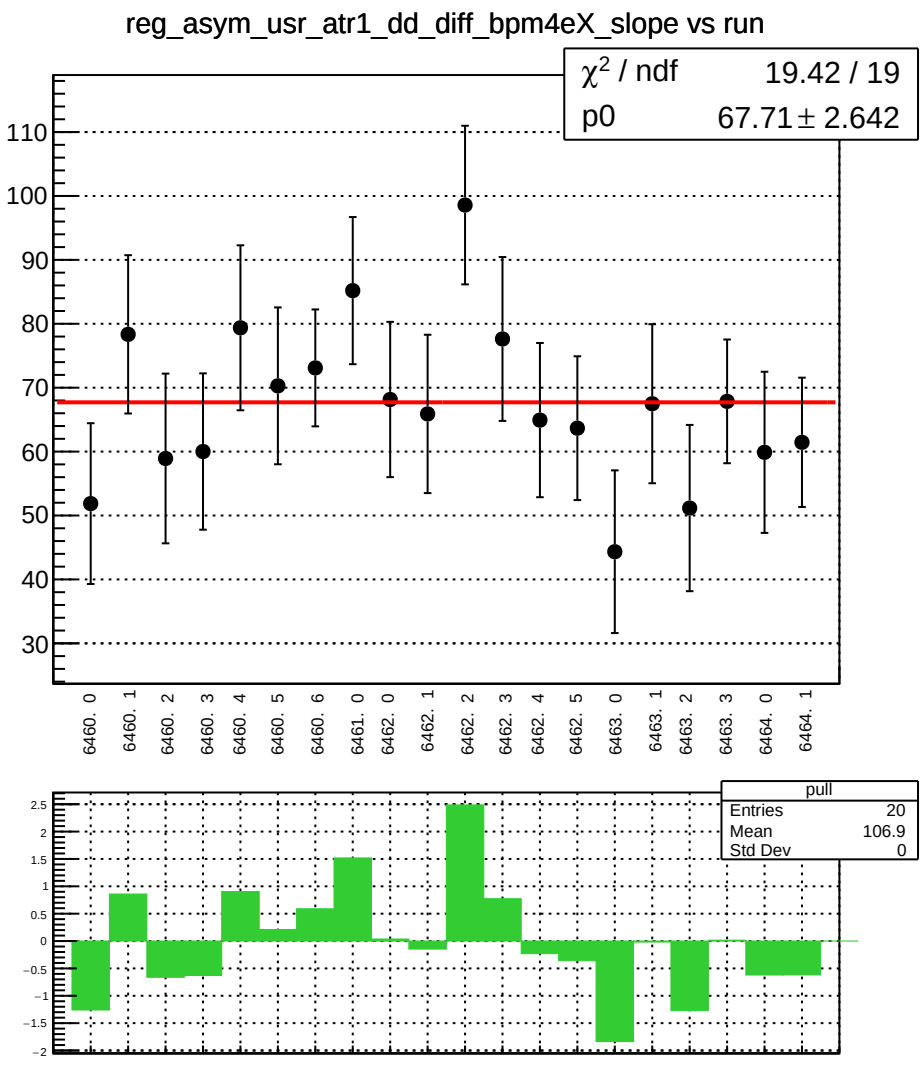

pull1D
Entries 20
Mean 0.001333
Std Dev 0.9532
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

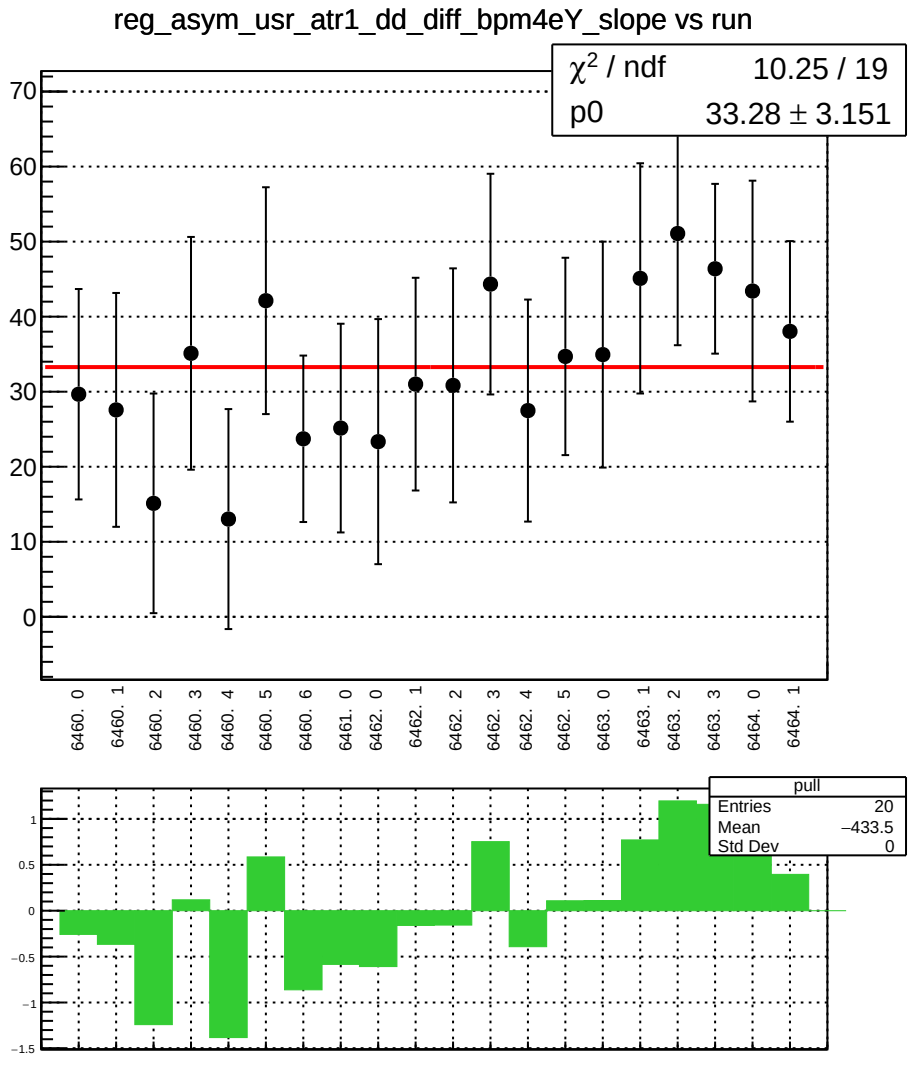

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 68.86 / 19
p0 −42.16 ± 0.1868
−38
−39
−40
−41
−42
−43
−44
−45
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −3340
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 20
Mean 0.002796
Std Dev 1.856
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

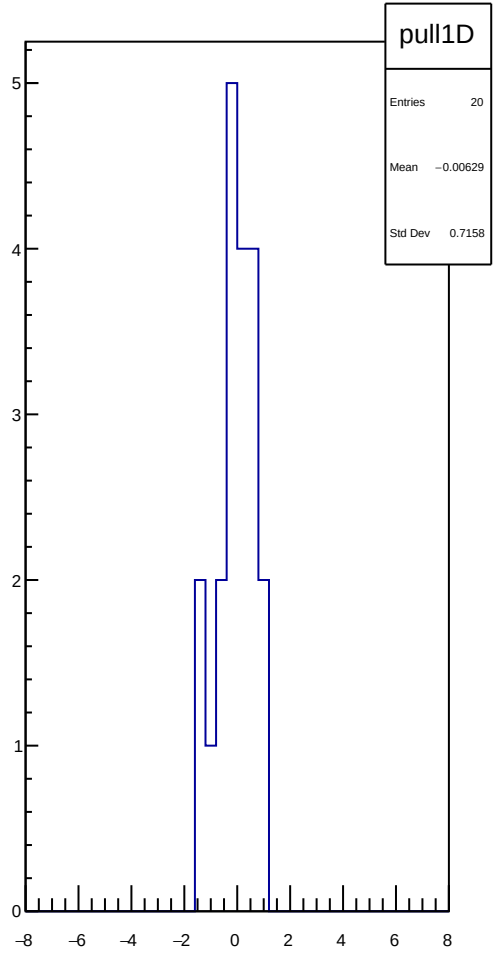

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 19.51 / 19
p0 −7.099 ± 2.665
30
20
10
0
−10
−20
−30
−40
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 98.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

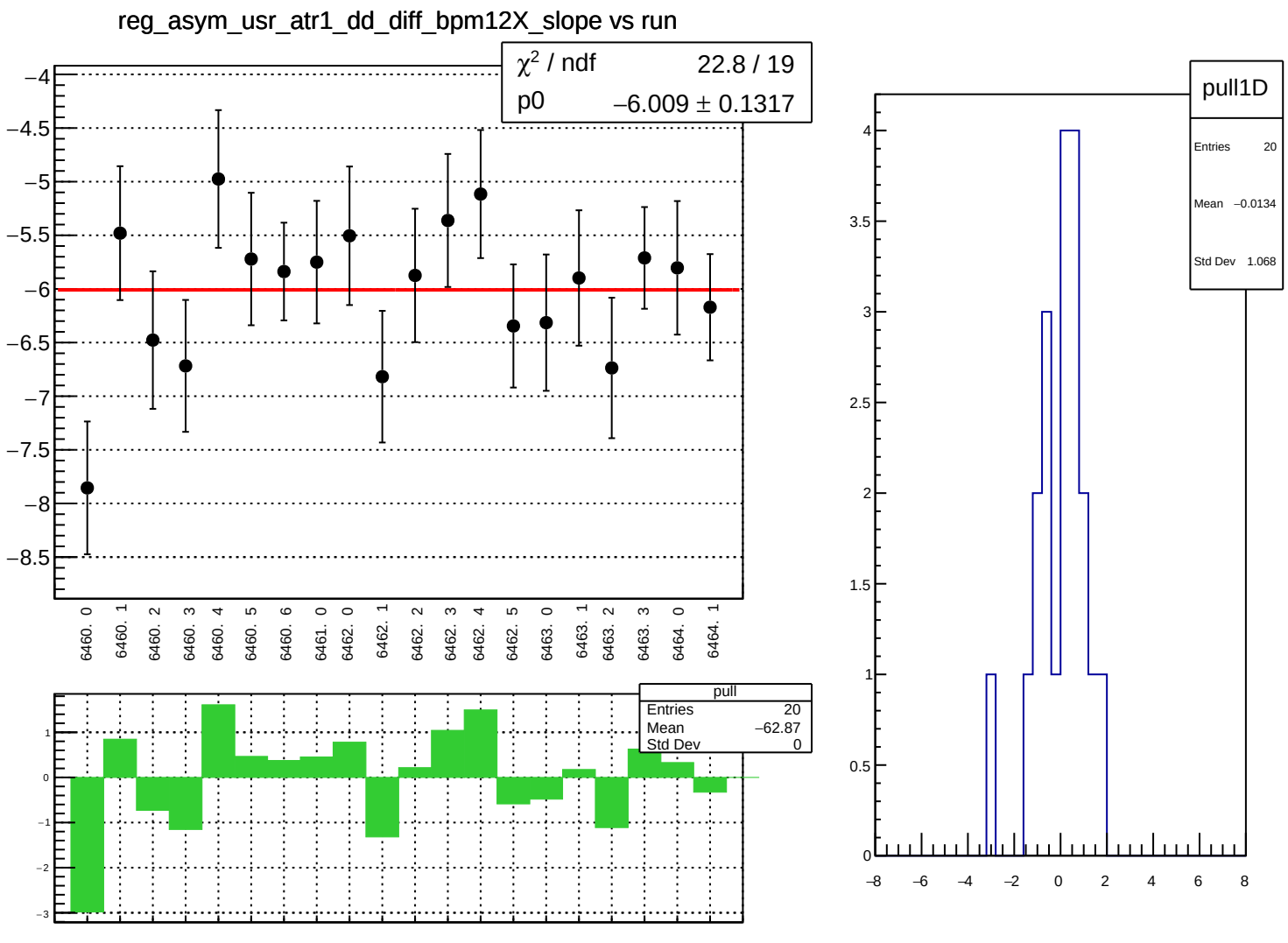

pull1D
Entries 20
Mean 0.01417
Std Dev 0.9876
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

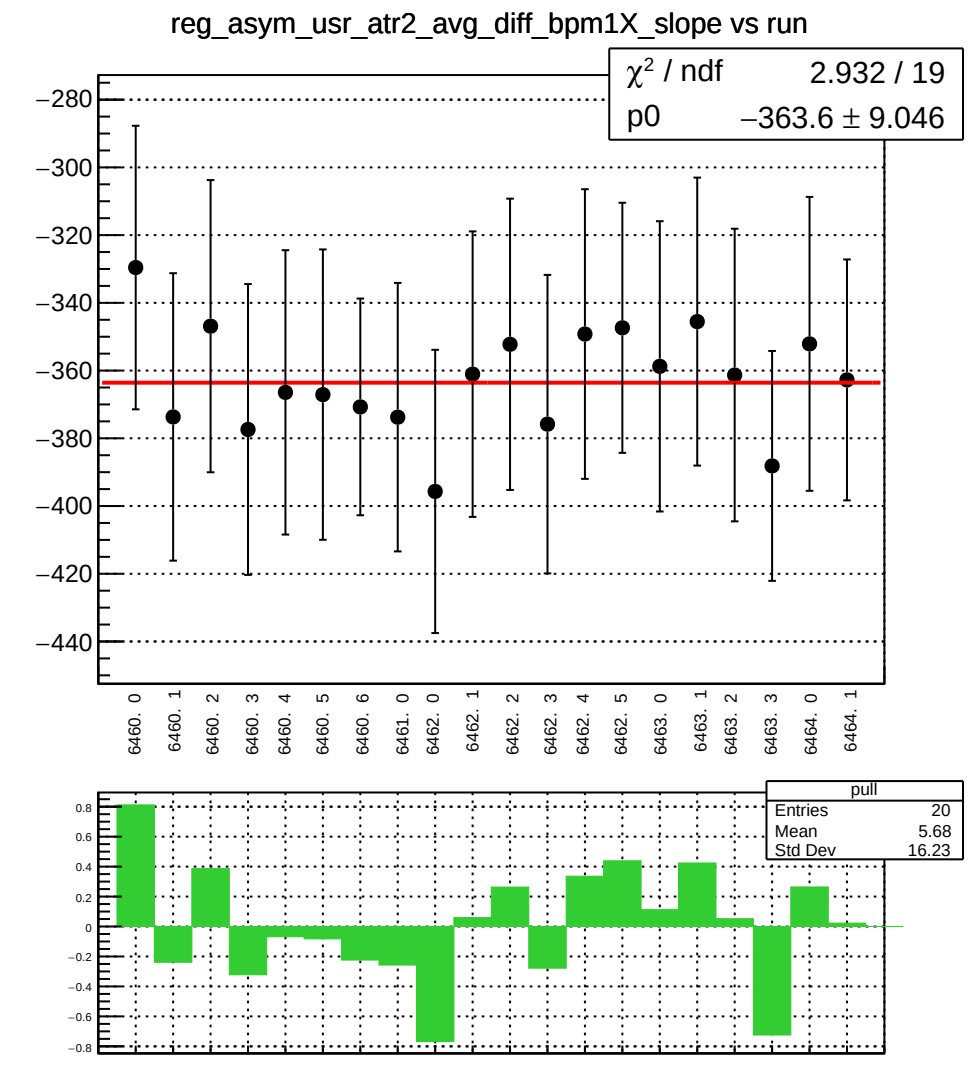

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.902 / 19
p0 −10.04 ± 3.118
20
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −486.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.003284
Std Dev 0.5875
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

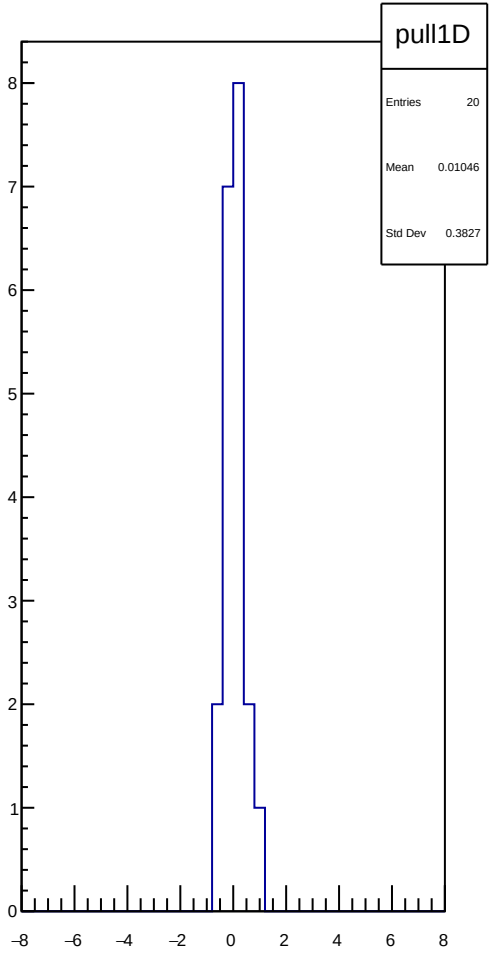

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.42 / 19
p0 67.71 ± 2.642
110
100
90
80
70
60
50
40
30
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 106.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.01297
Std Dev 0.9852
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

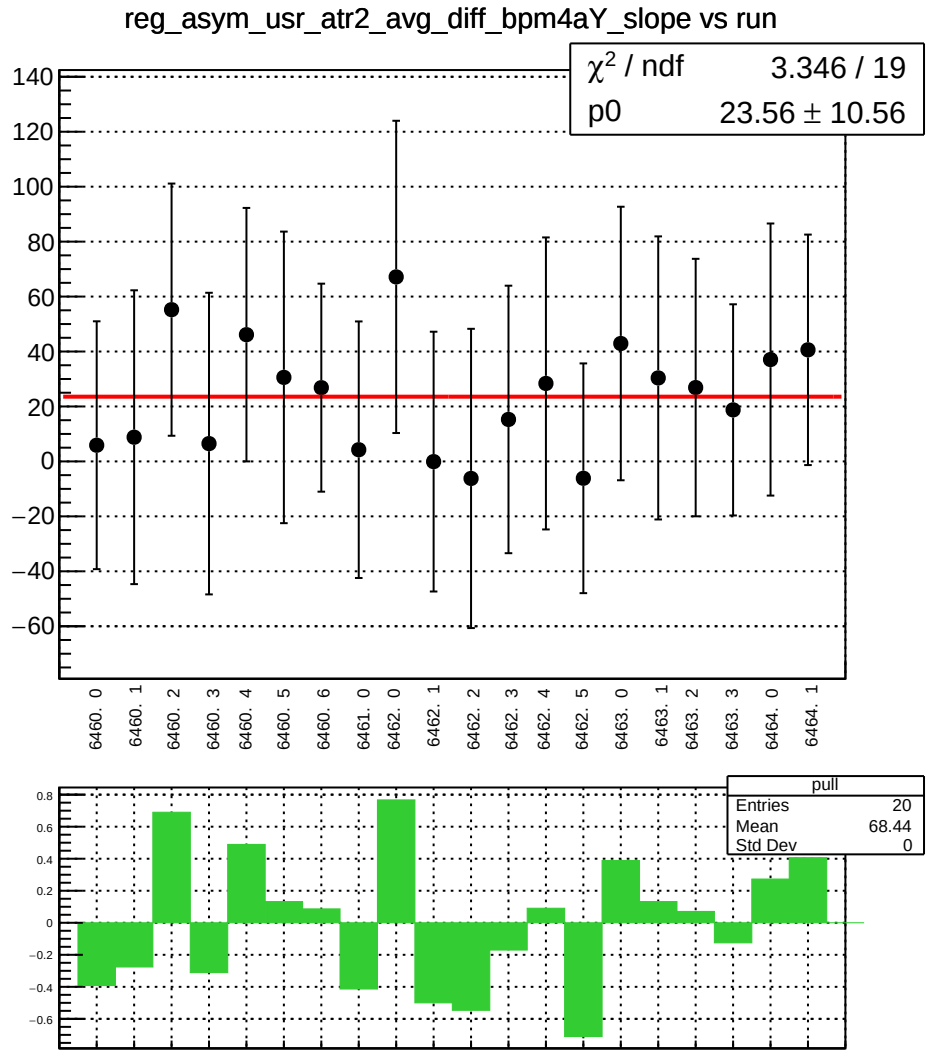

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.25 / 19
p0 33.28 ± 3.151
70
60
50
40
30
20
10
0
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −433.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

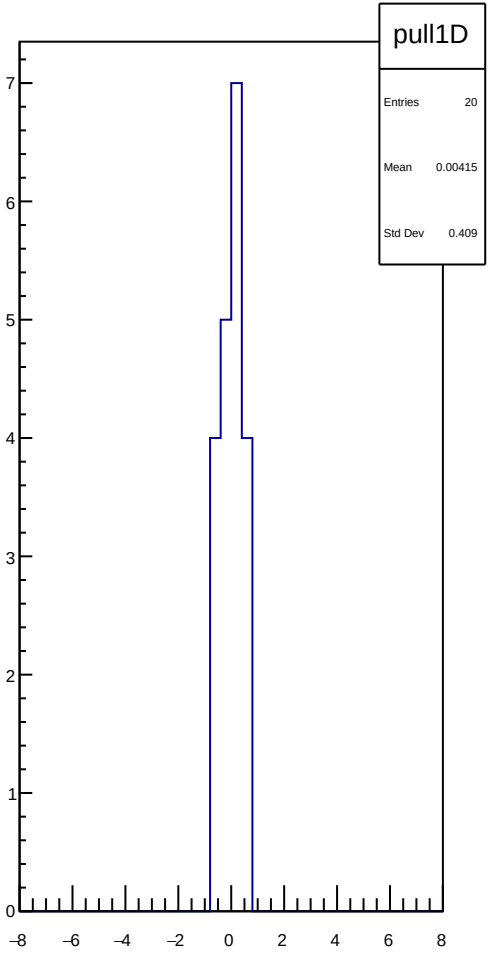

pull1D
Entries 20
Mean −0.00629
Std Dev 0.7158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

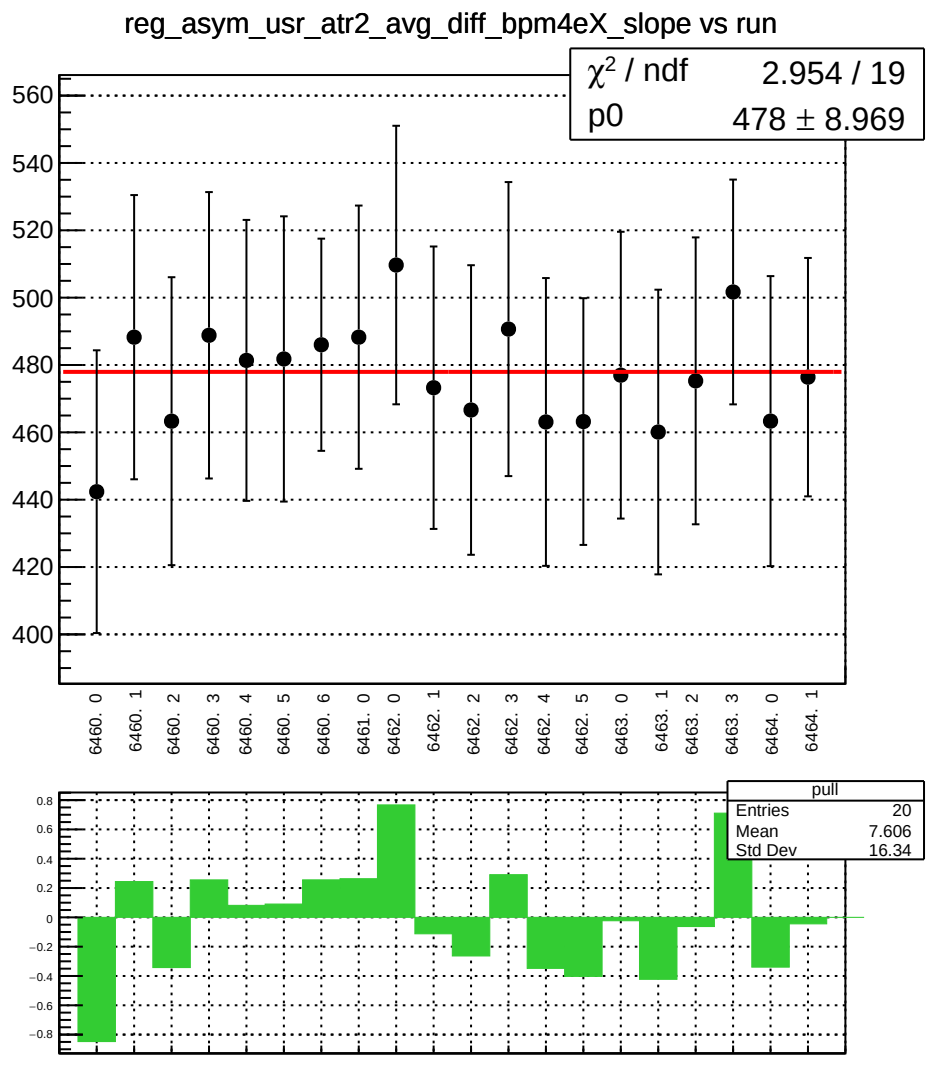

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 22.8 / 19
p0 −6.009 ± 0.1317
−4
−4.5
−5
−5.5
−6
−6.5
−7
−7.5
−8
−8.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −62.87
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 20
Mean −0.0134
Std Dev 1.068
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

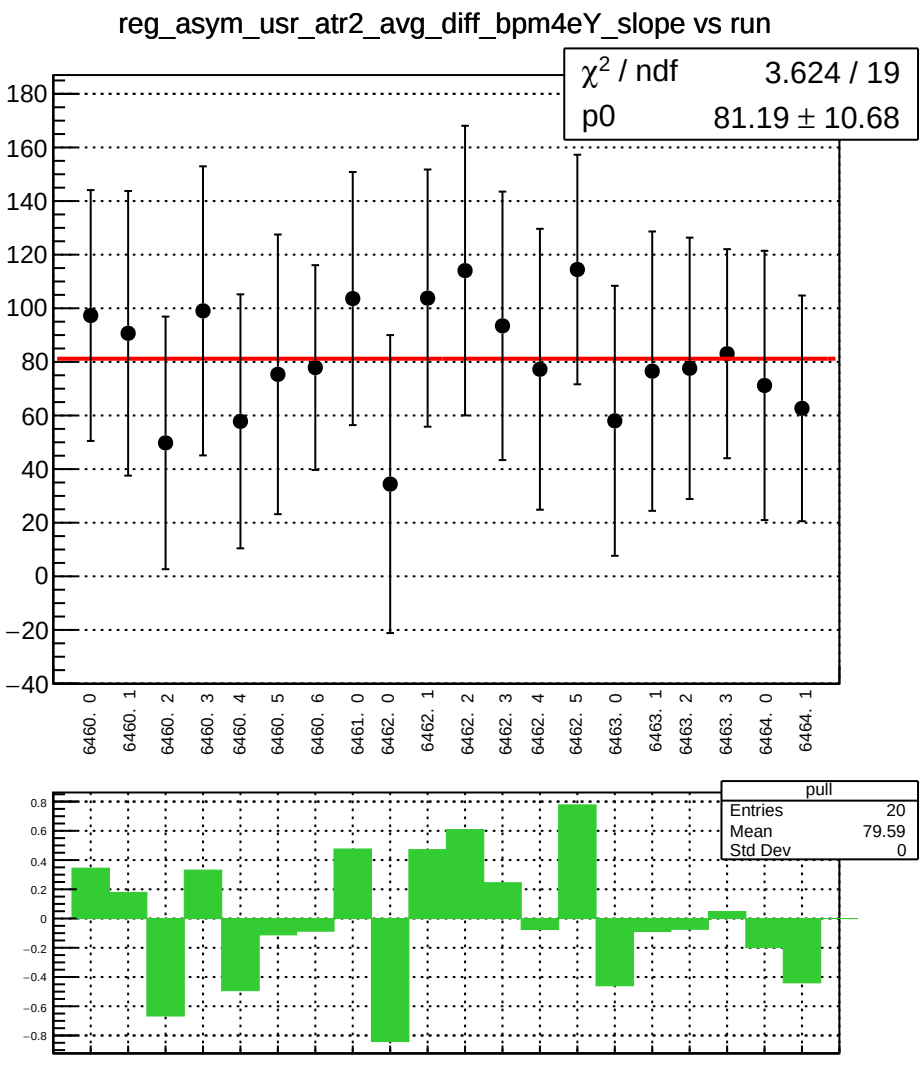

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 2.932 / 19
p0 −363.6 ± 9.046
−280
−300
−320
−340
−360
−380
−400
−420
−440
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 5.68
Std Dev 16.23
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

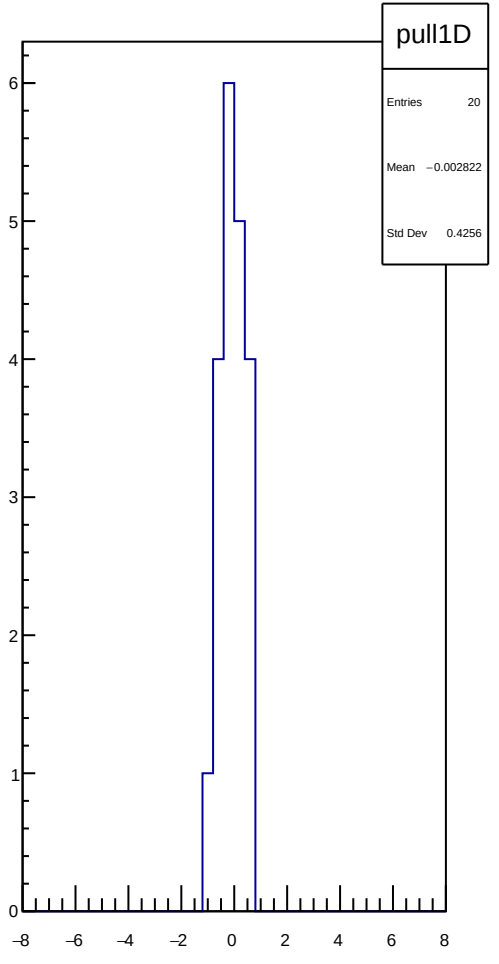

pull1D
Entries 20
Mean 0.01046
Std Dev 0.3827
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

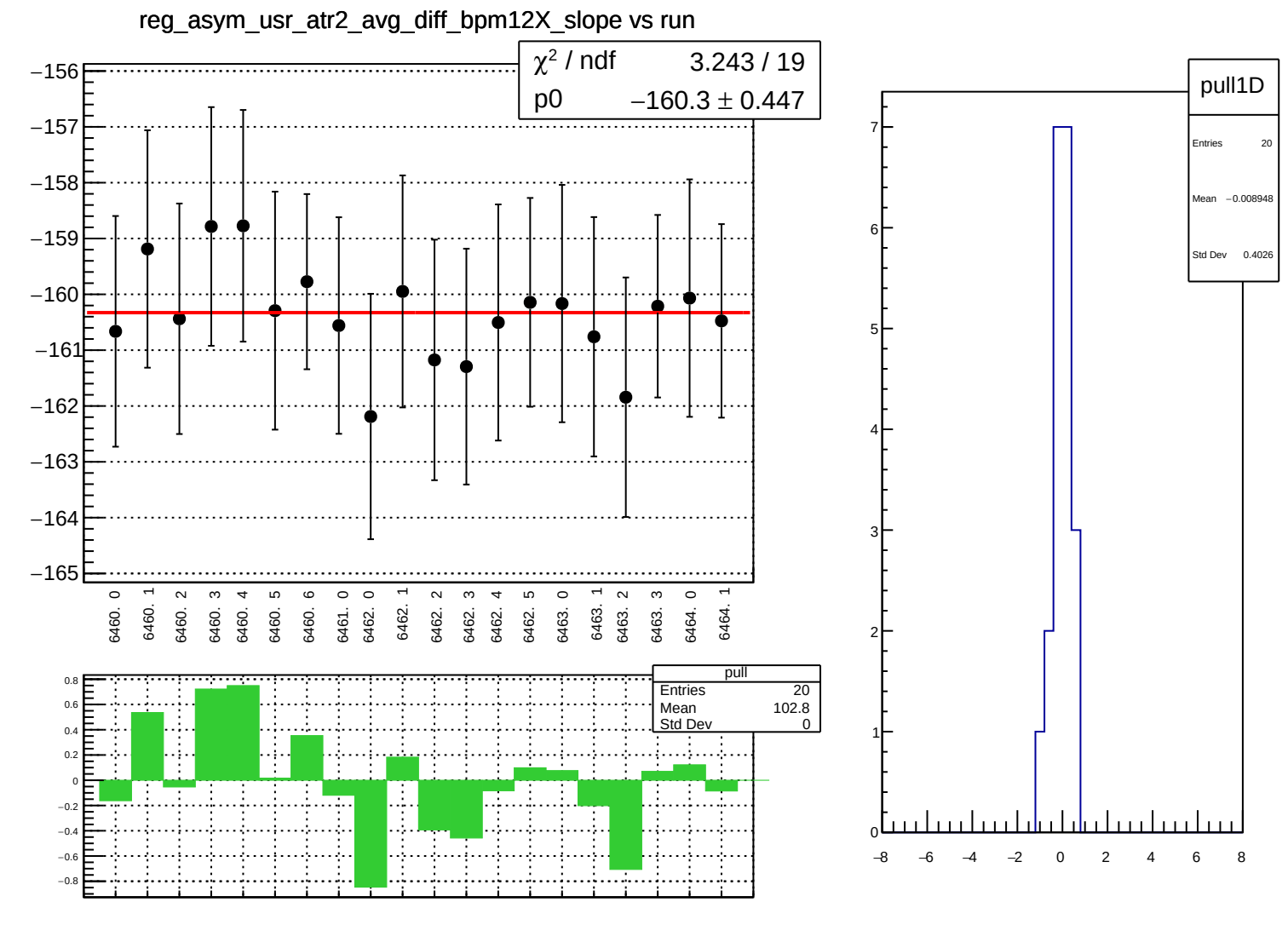

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.346 / 19
p0 23.56 ± 10.56
140
120
100
80
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 68.44
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

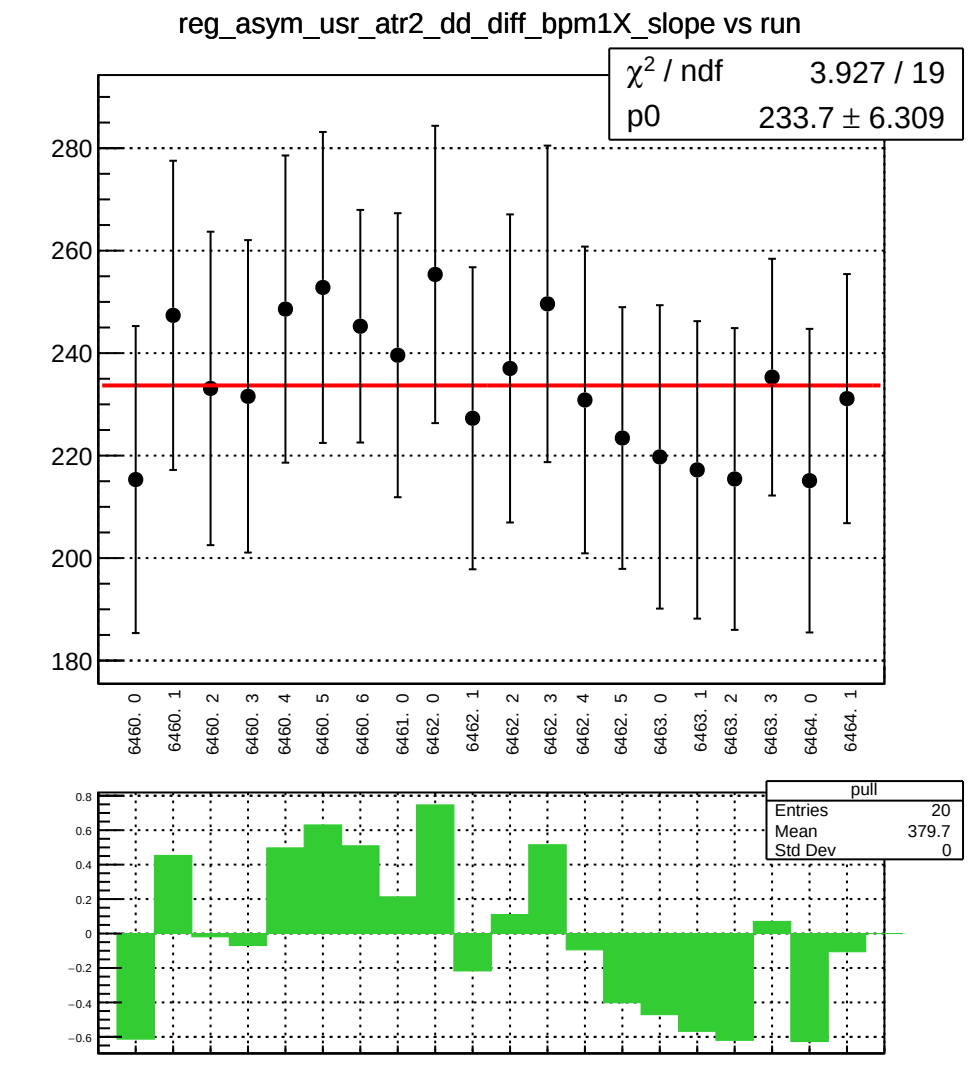

pull1D
Entries 20
Mean 0.00415
Std Dev 0.409
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

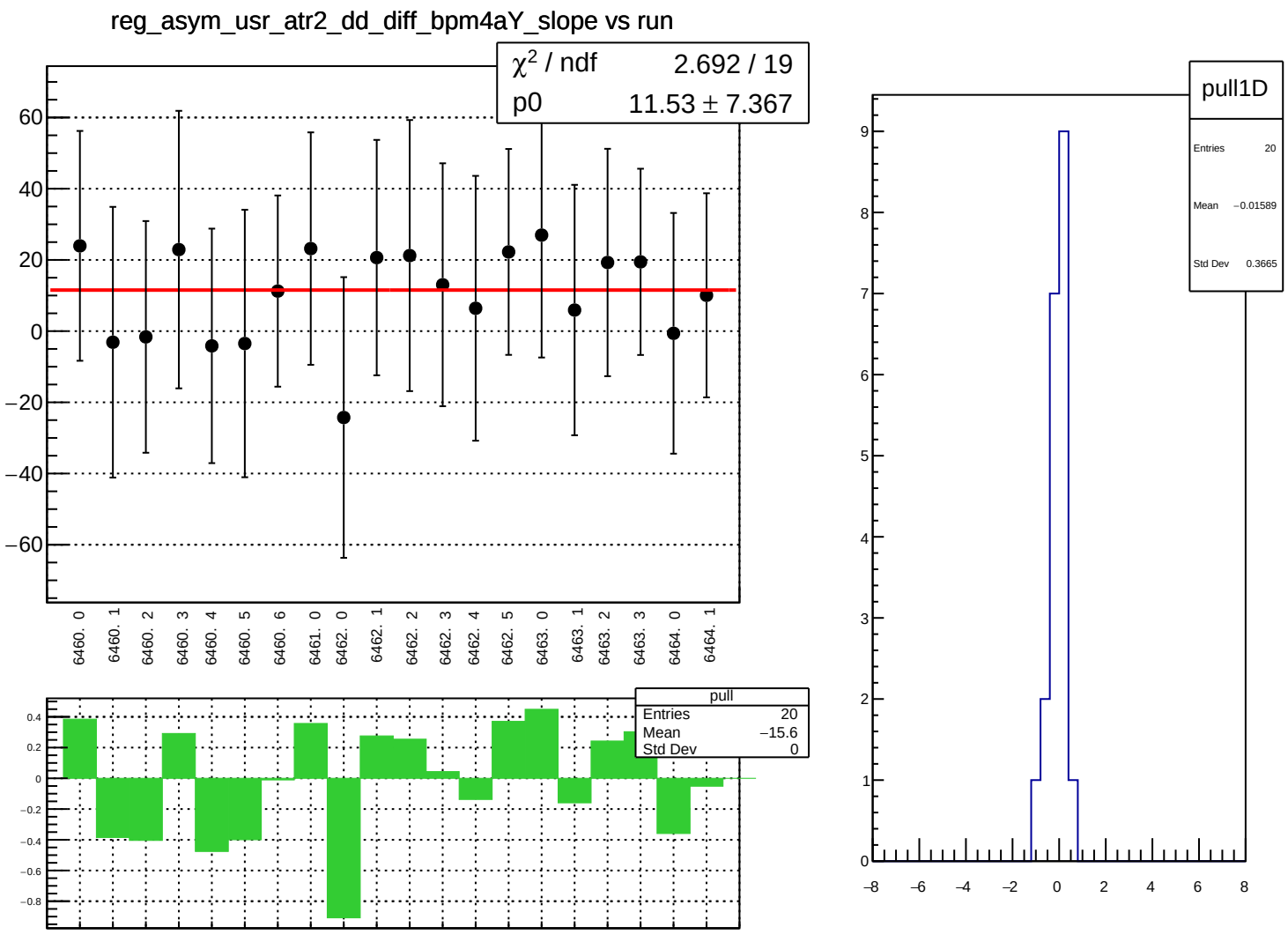

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.954 / 19
p0 478 ± 8.969
560
540
520
500
480
460
440
420
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 7.606
Std Dev 16.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.01237
Std Dev 0.3841
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

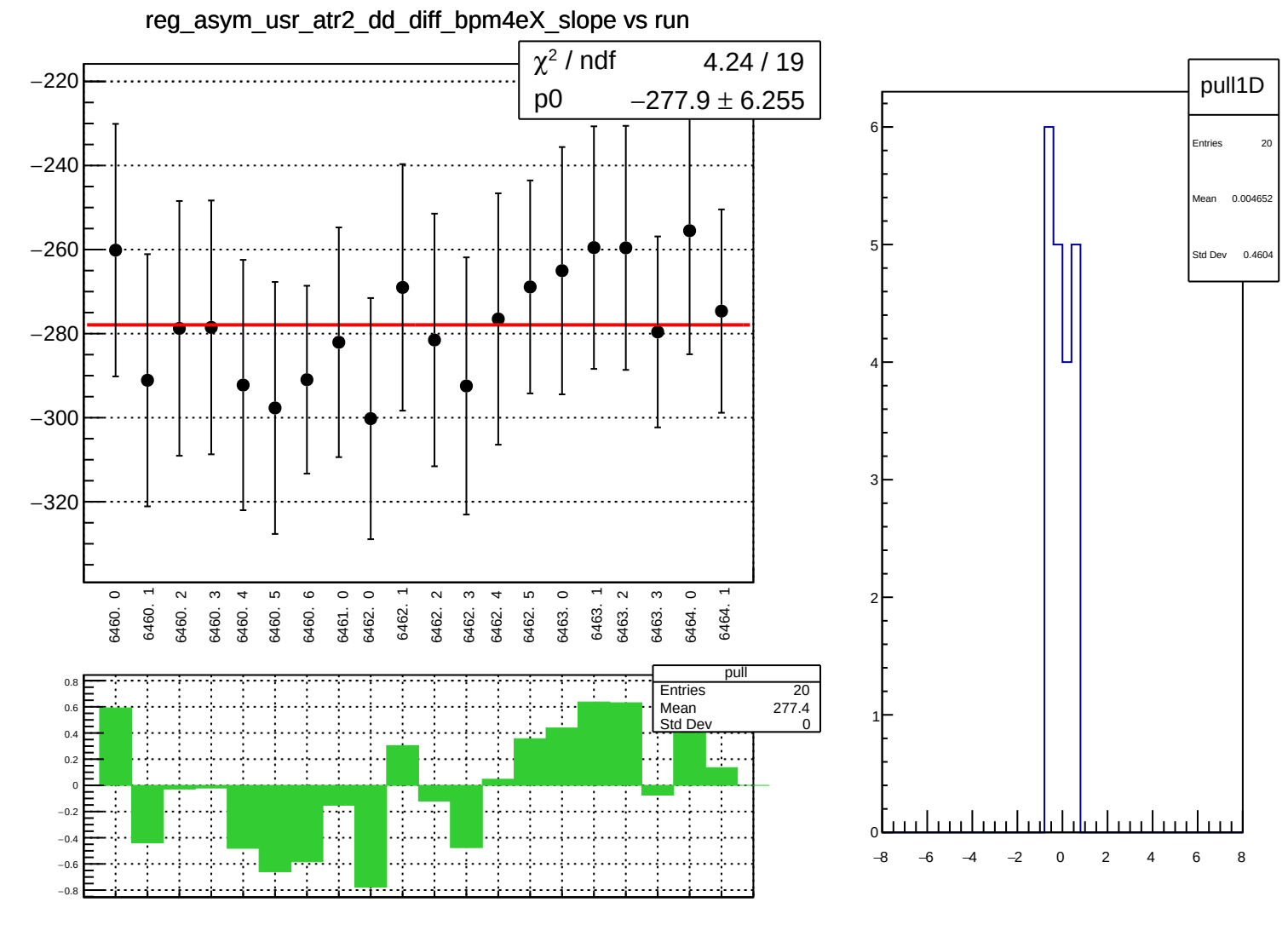

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.624 / 19
p0 81.19 ± 10.68
180
160
140
120
100
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 79.59
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

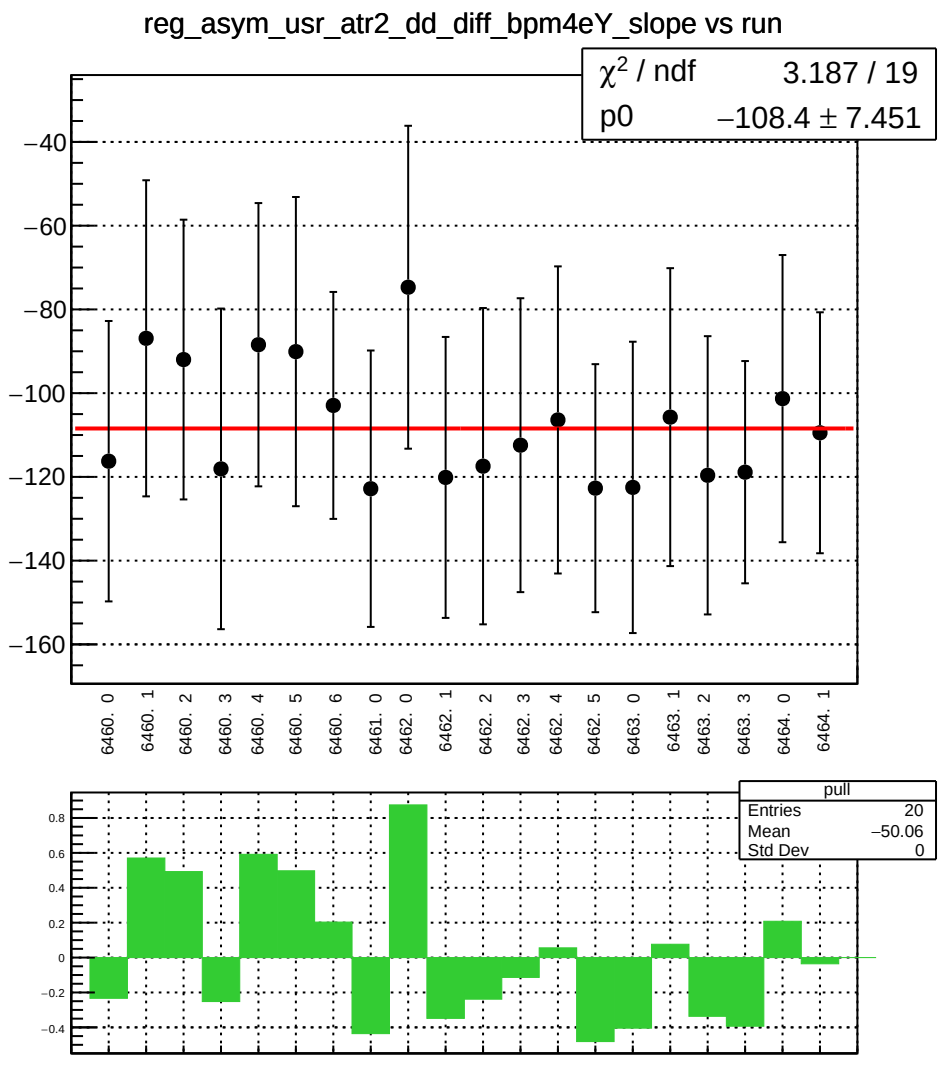

pull1D
Entries 20
Mean −0.002822
Std Dev 0.4256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

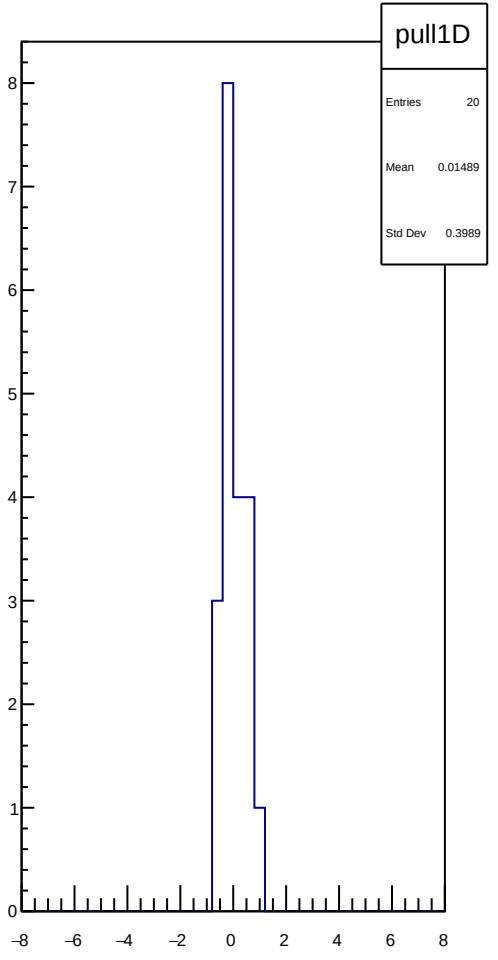

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.243 / 19
p0 −160.3 ± 0.447
−156
−157
−158
−159
−160
−161
−162
−163
−164
−165
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 102.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.008948
Std Dev 0.4026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

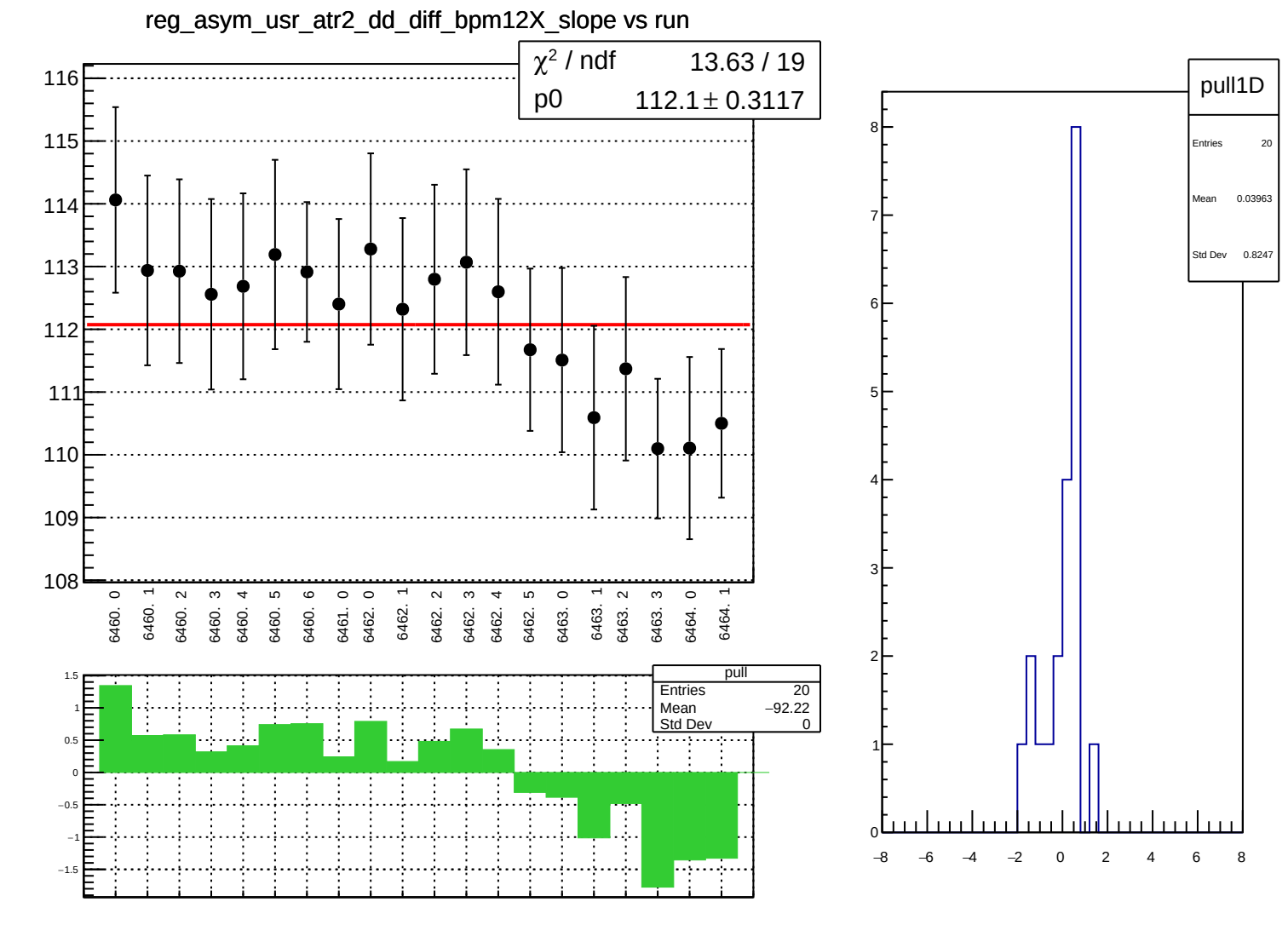

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 3.927 / 19
p0 233.7 ± 6.309
280
260
240
220
200
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 379.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.003007
Std Dev 0.4431
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

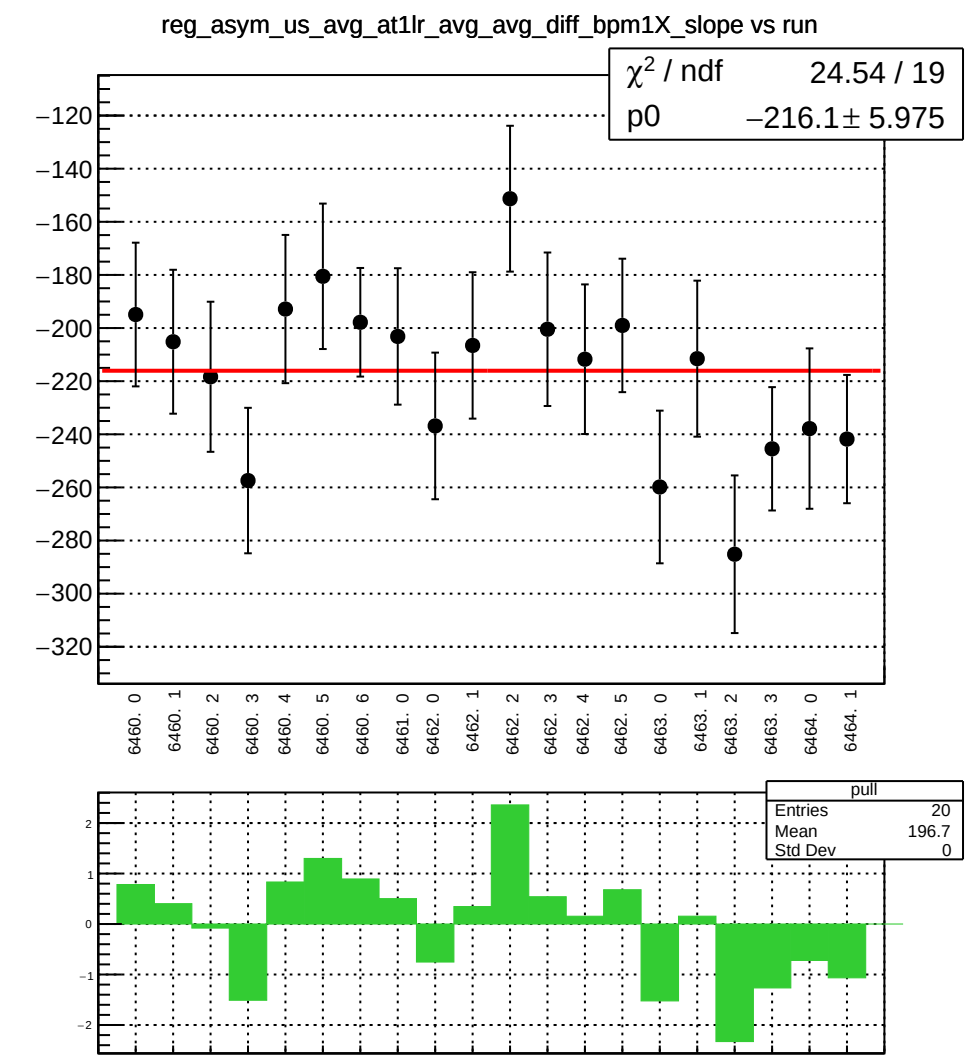

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.692 / 19
p0 11.53 ± 7.367
60
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −15.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean −0.01589
Std Dev 0.3665
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

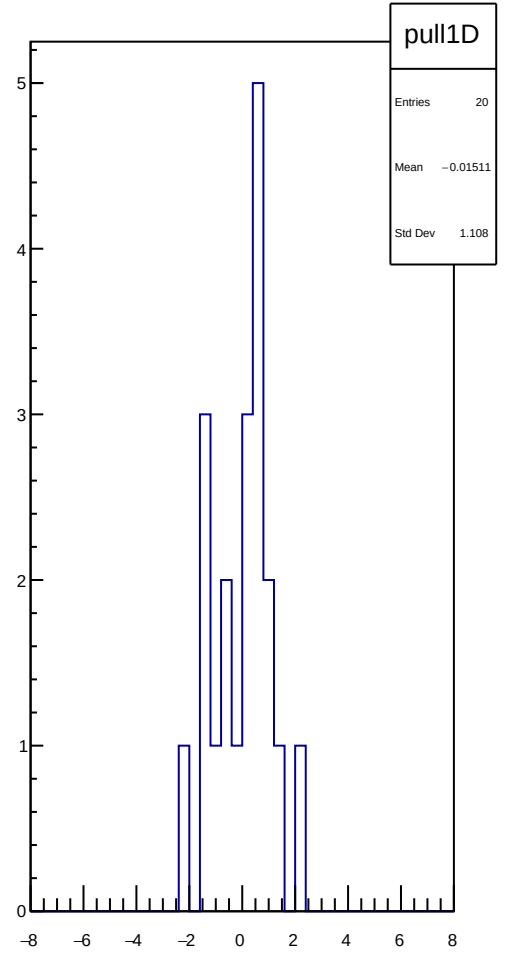

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.24 / 19
p0 −277.9 ± 6.255
−220
−240
−260
−280
−300
−320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 277.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 20
Mean 0.004652
Std Dev 0.4604
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

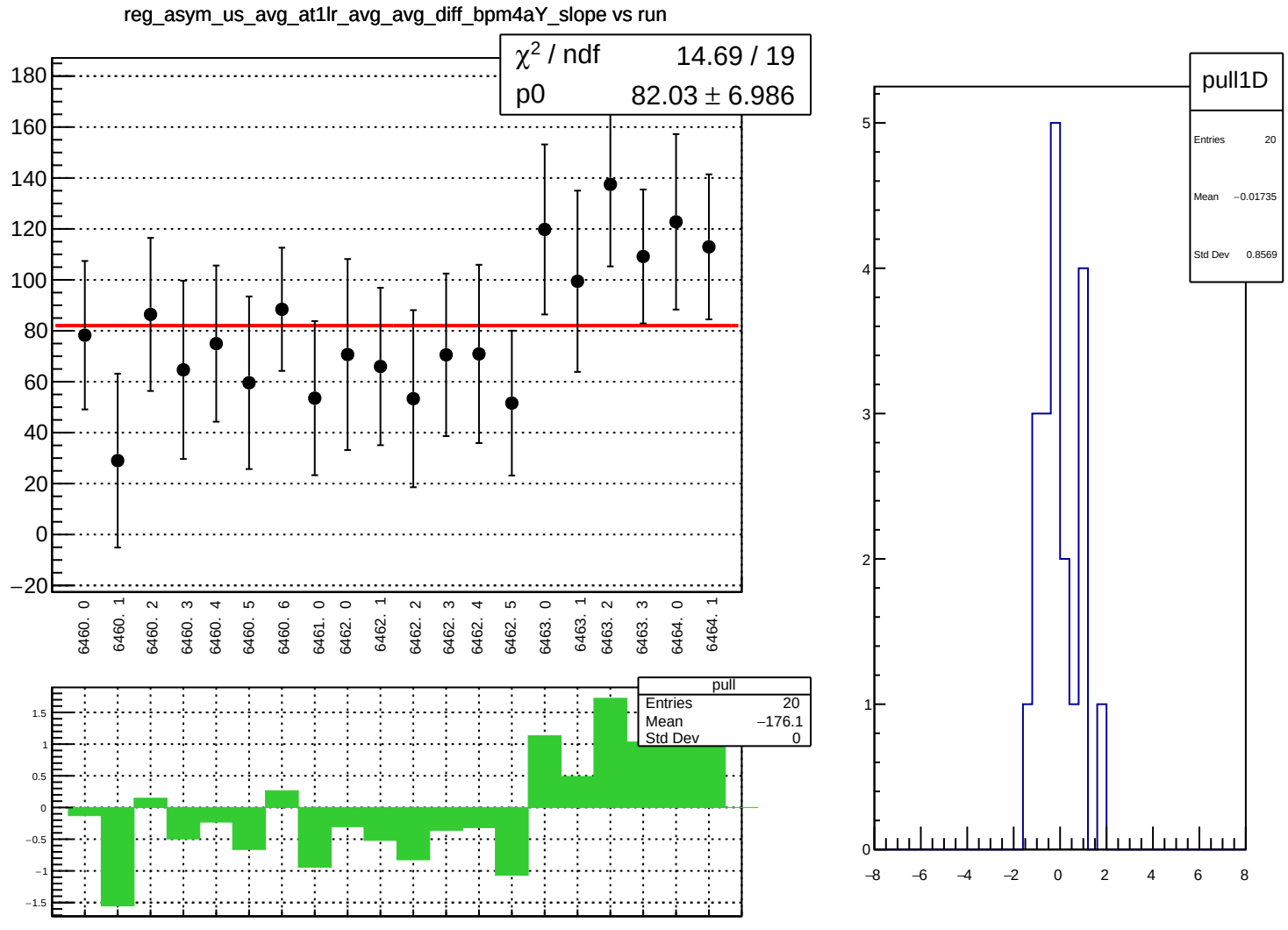

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.187 / 19
p0 −108.4 ± 7.451
−40
−60
−80
−100
−120
−140
−160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.06
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

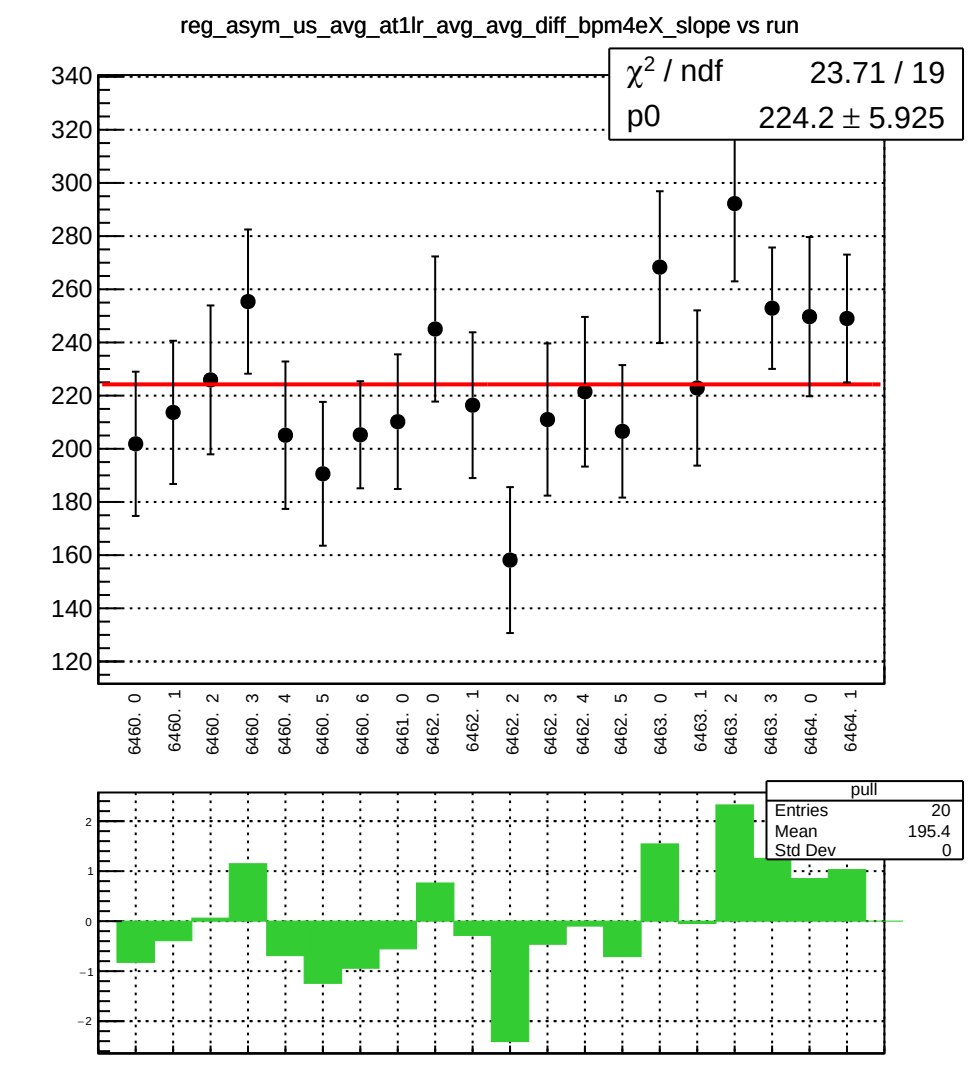

pull1D
Entries 20
Mean 0.01489
Std Dev 0.3989
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

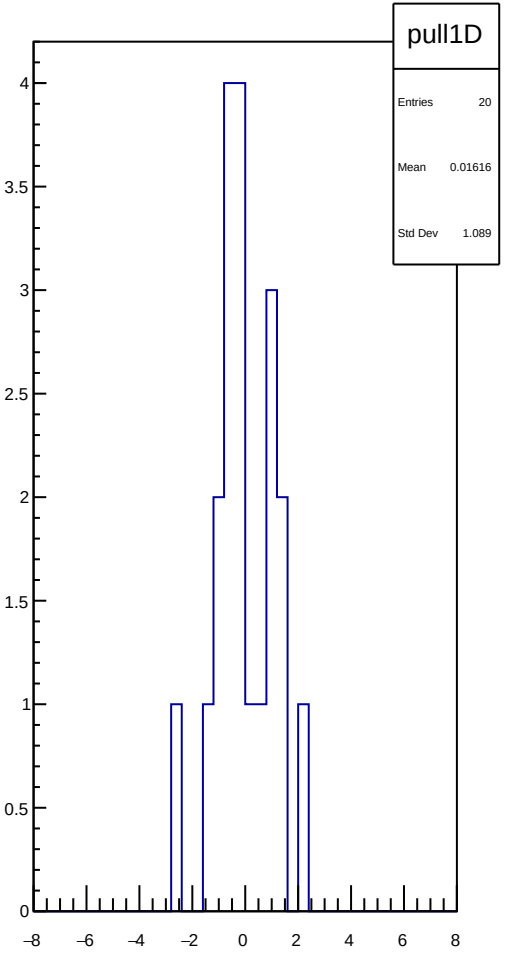

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.63 / 19
p0 112.1 ± 0.3117
116
115
114
113
112
111
110
109
108
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −92.22
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03963
Std Dev 0.8247
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

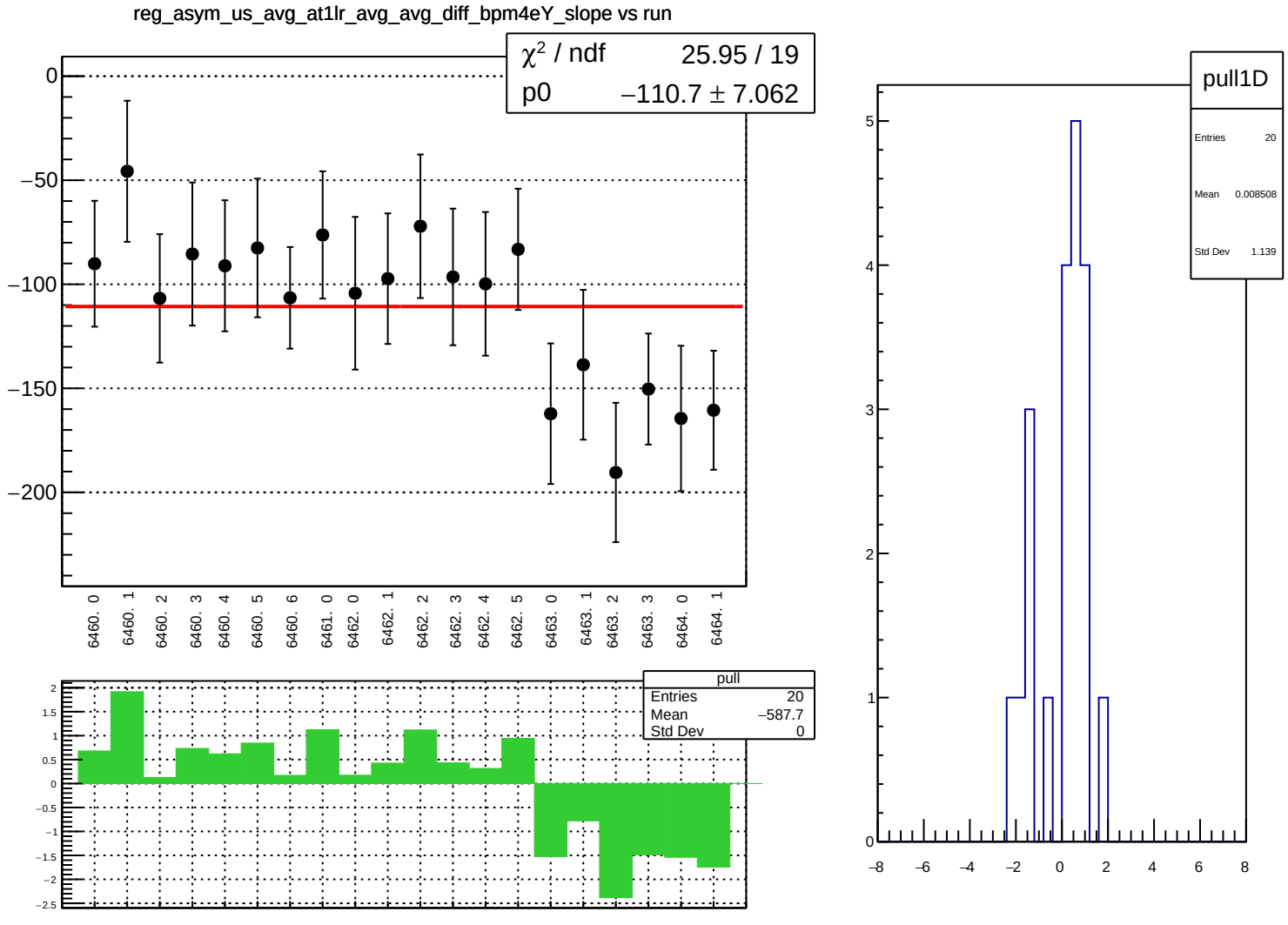

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 24.54 / 19
p0 −216.1 ± 5.975
−120
−140
−160
−180
−200
−220
−240
−260
−280
−300
−320
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 196.7
Std Dev 0
2
1
0
−1
−2

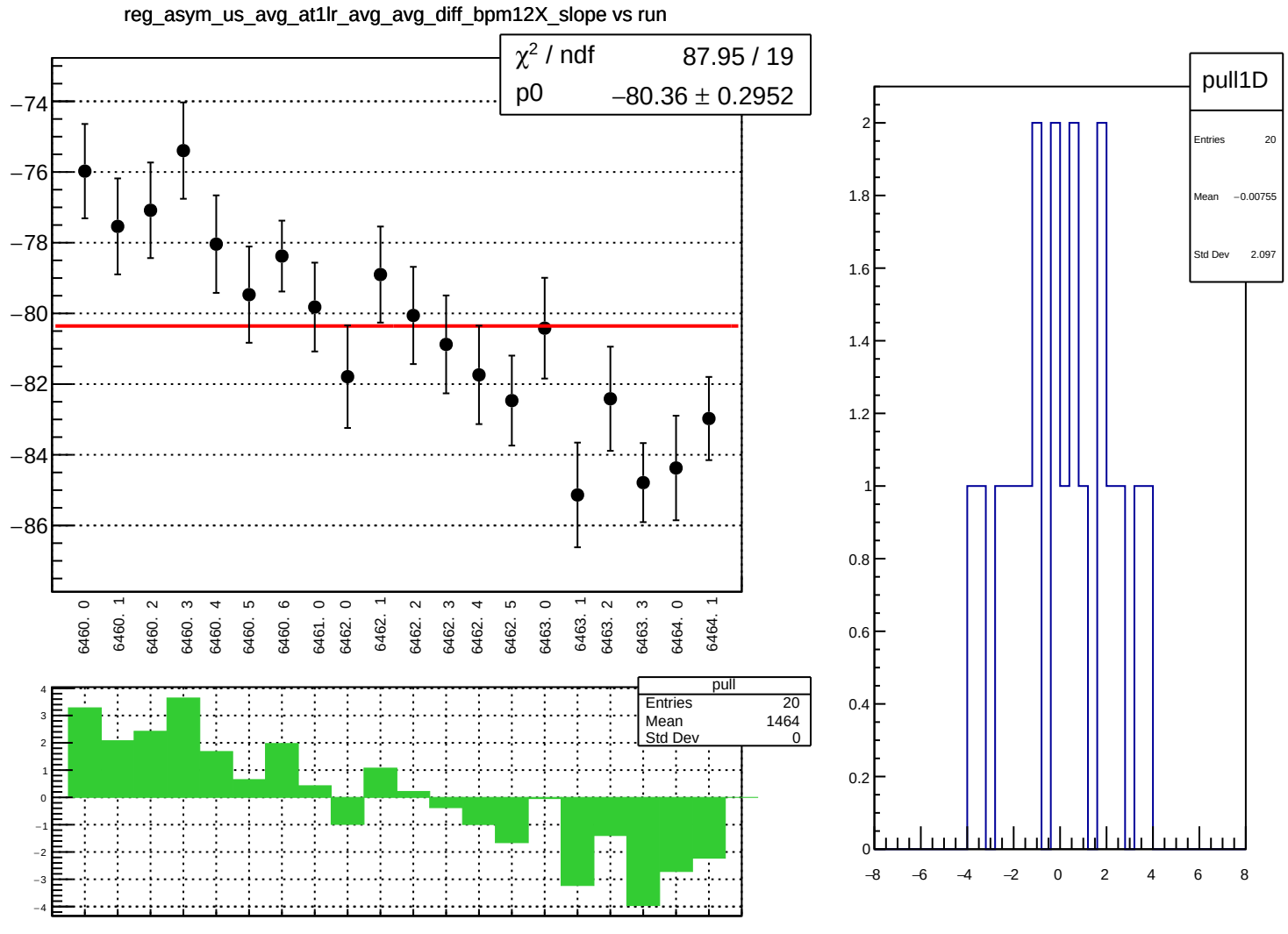

pull1D
Entries 20
Mean −0.01511
Std Dev 1.108
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

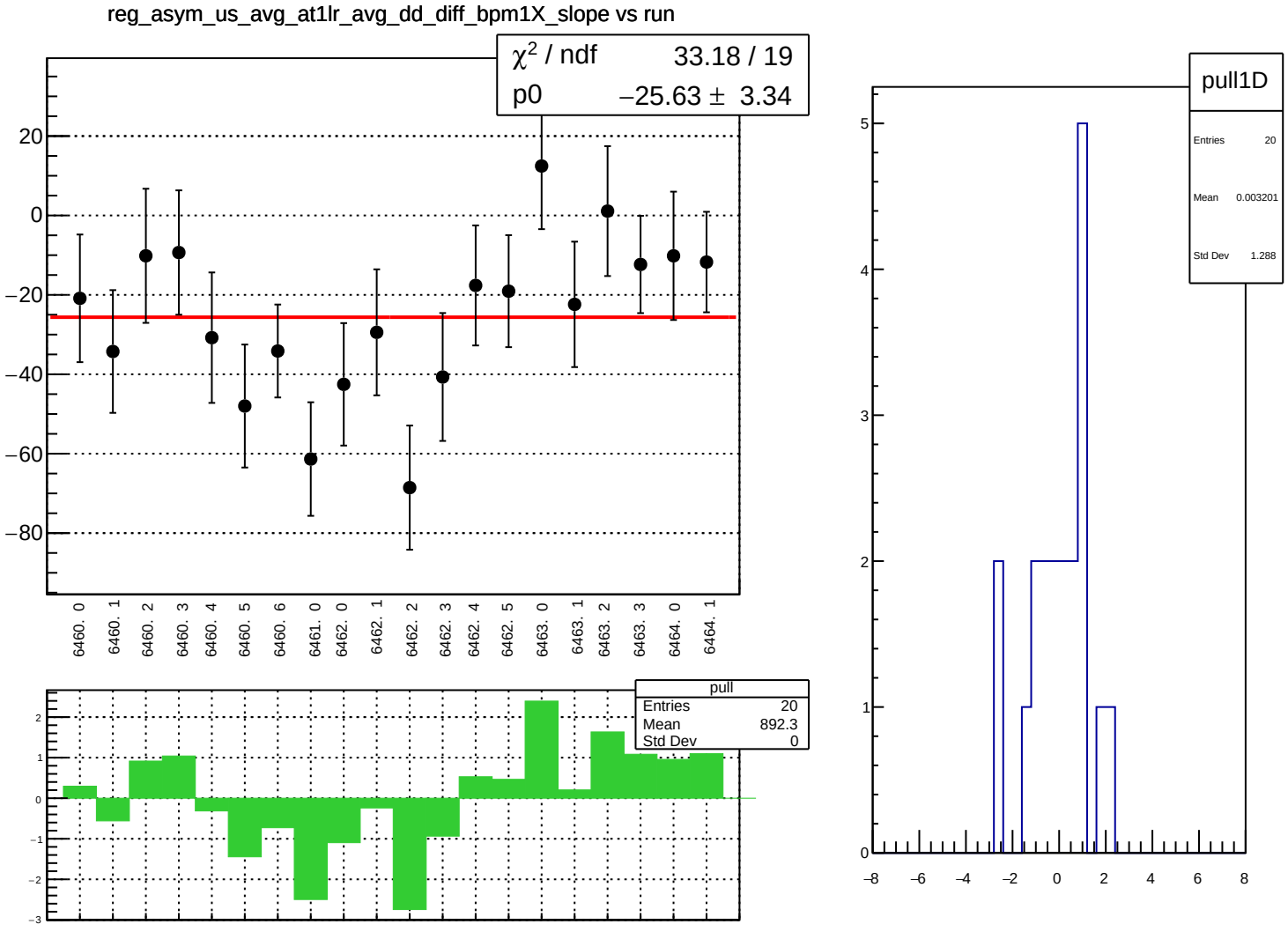

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.69 / 19
p0 82.03 ± 6.986
180
160
140
120
100
80
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −176.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01735
Std Dev 0.8569
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

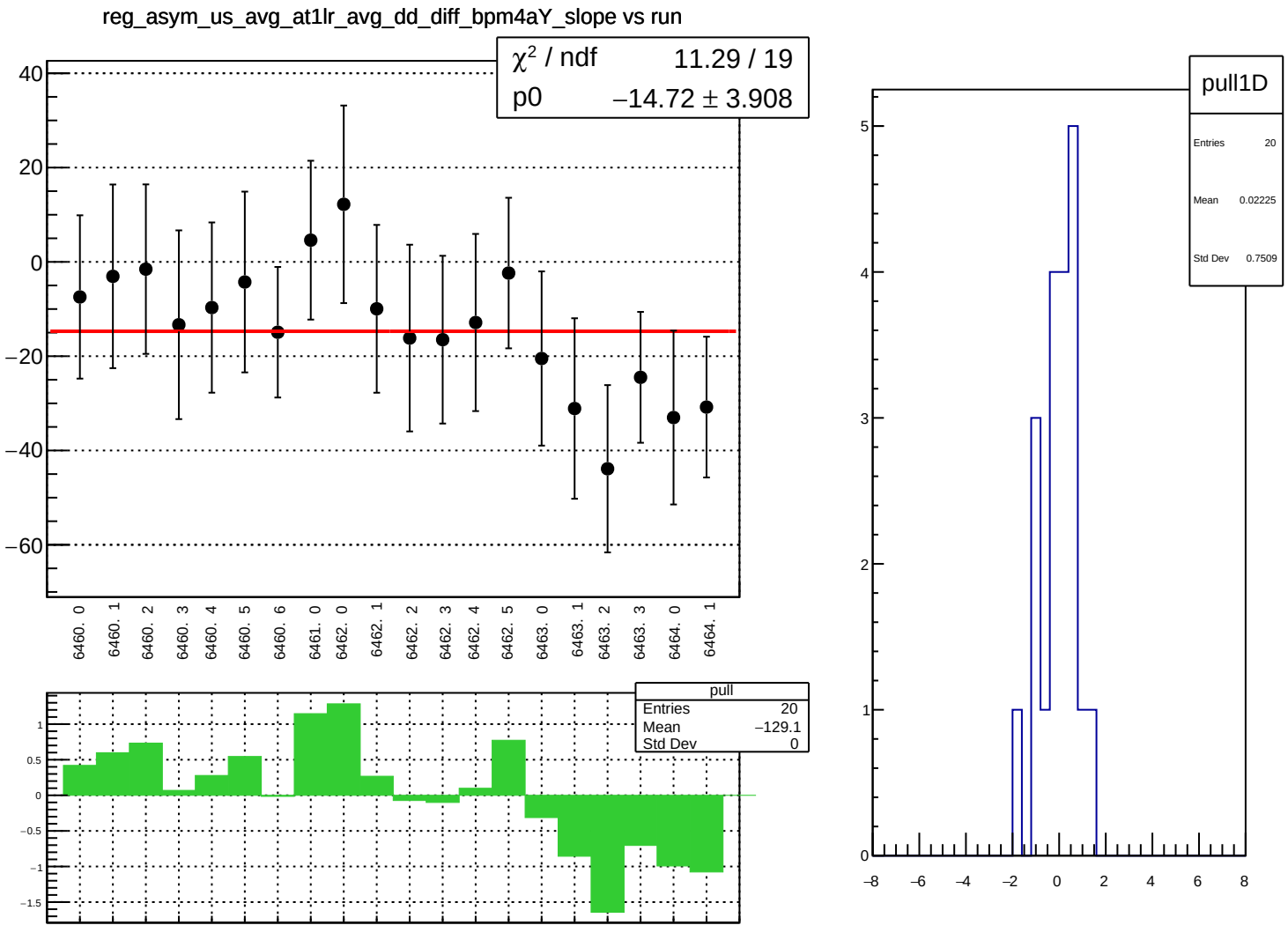

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.71 / 19
p0 224.2 ± 5.925
340
320
300
280
260
240
220
200
180
160
140
120
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 195.4
Std Dev 0
2
1
0
−1
−2

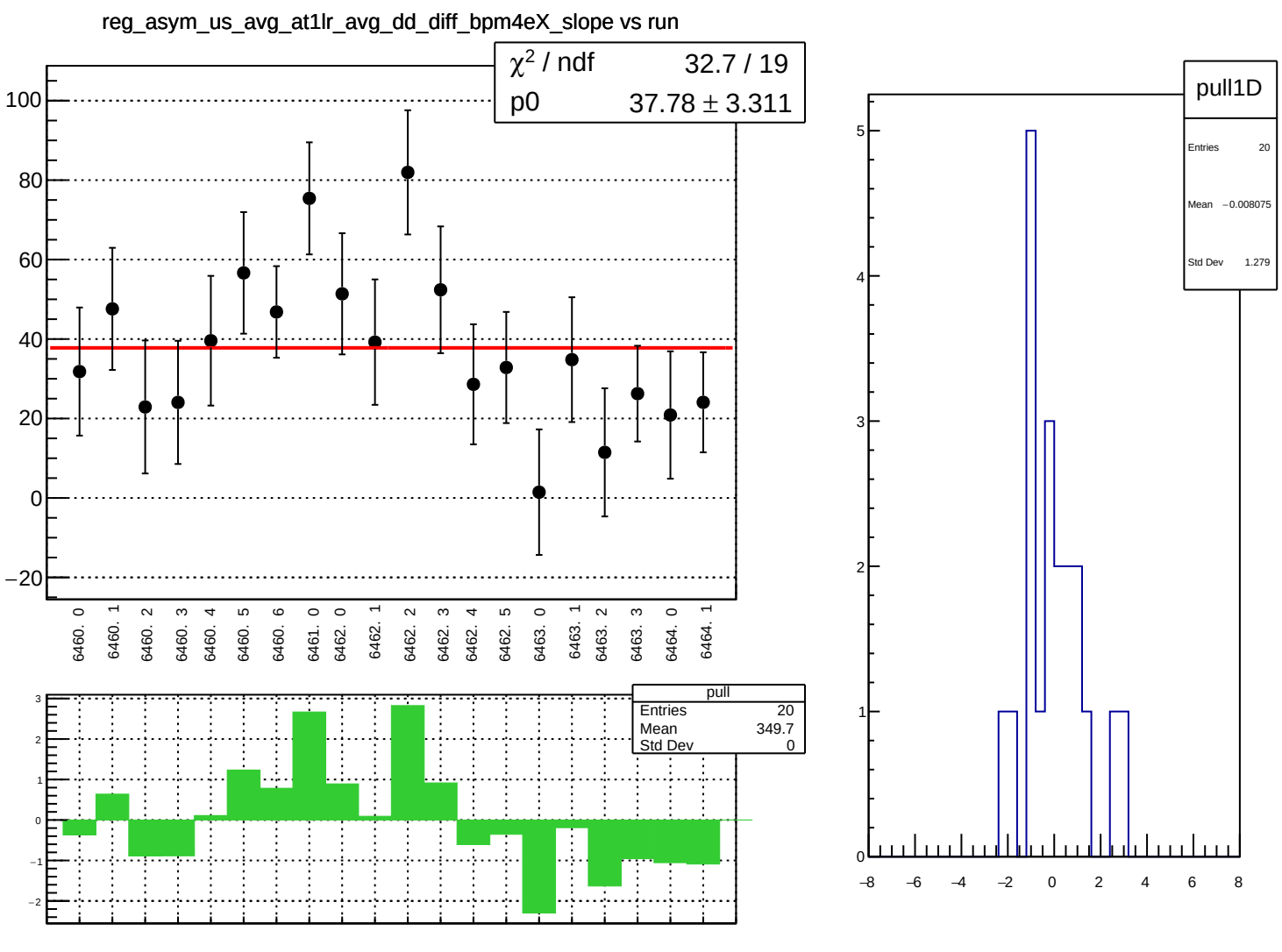

pull1D
Entries 20
Mean 0.01616
Std Dev 1.089
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

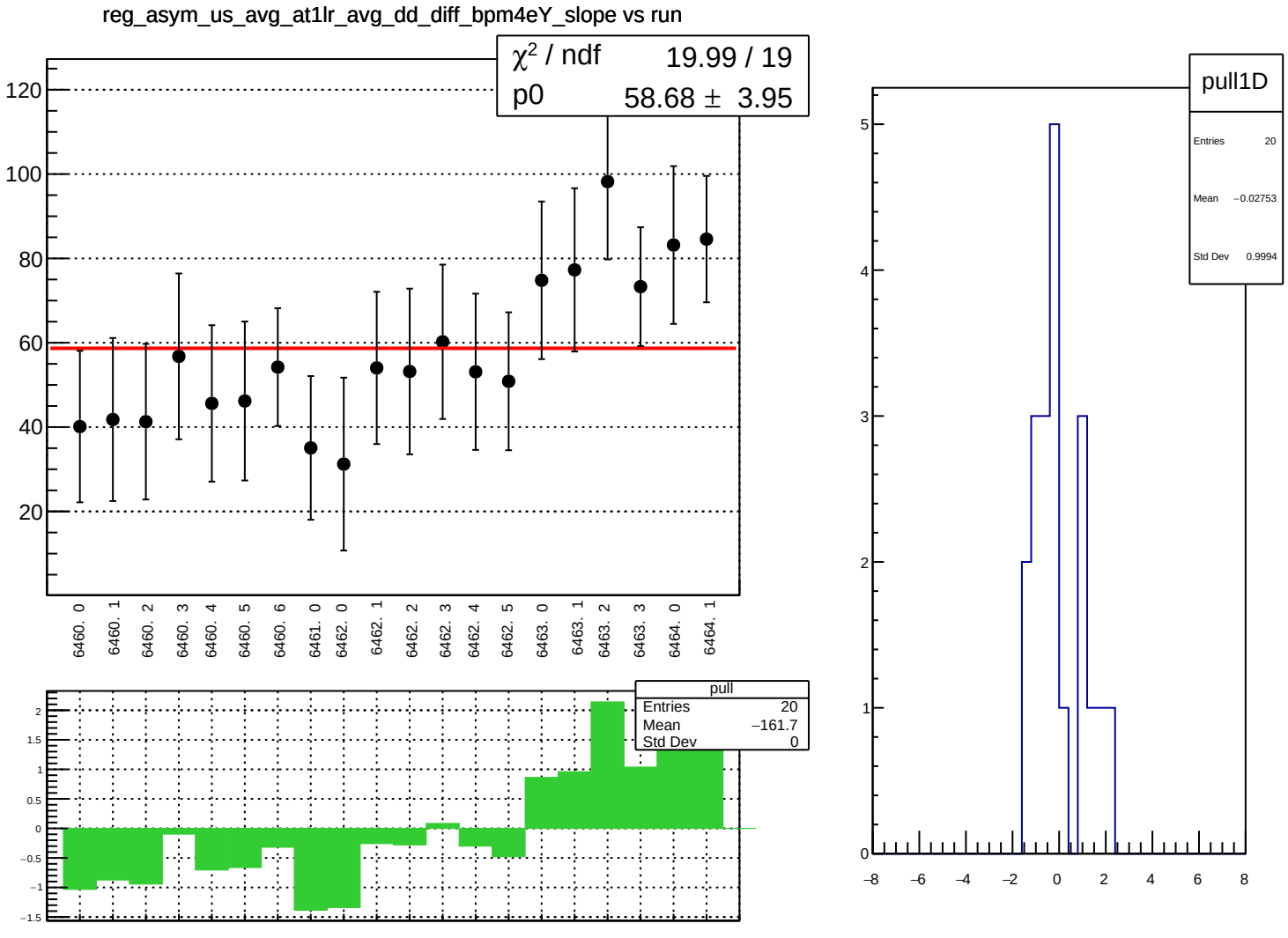

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.95 / 19
p0 −110.7 ± 7.062
0
−50
−100
−150
−200
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −587.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 20
Mean 0.008508
Std Dev 1.139
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

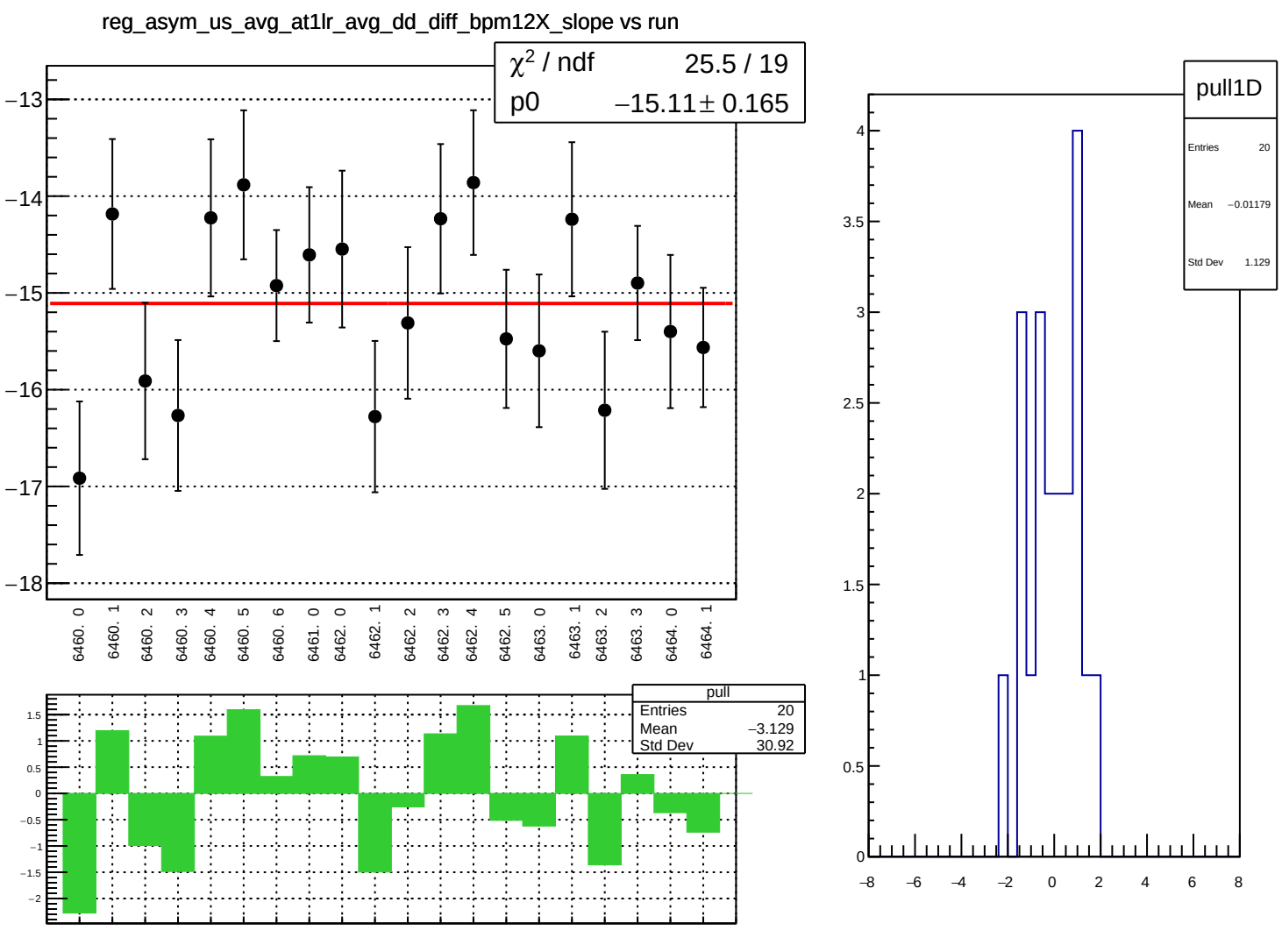

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 87.95 / 19
p0 −80.36 ± 0.2952
−74
−76
−78
−80
−82
−84
−86
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1464
Std Dev 0
pull1D
Entries 20
Mean −0.00755
Std Dev 2.097

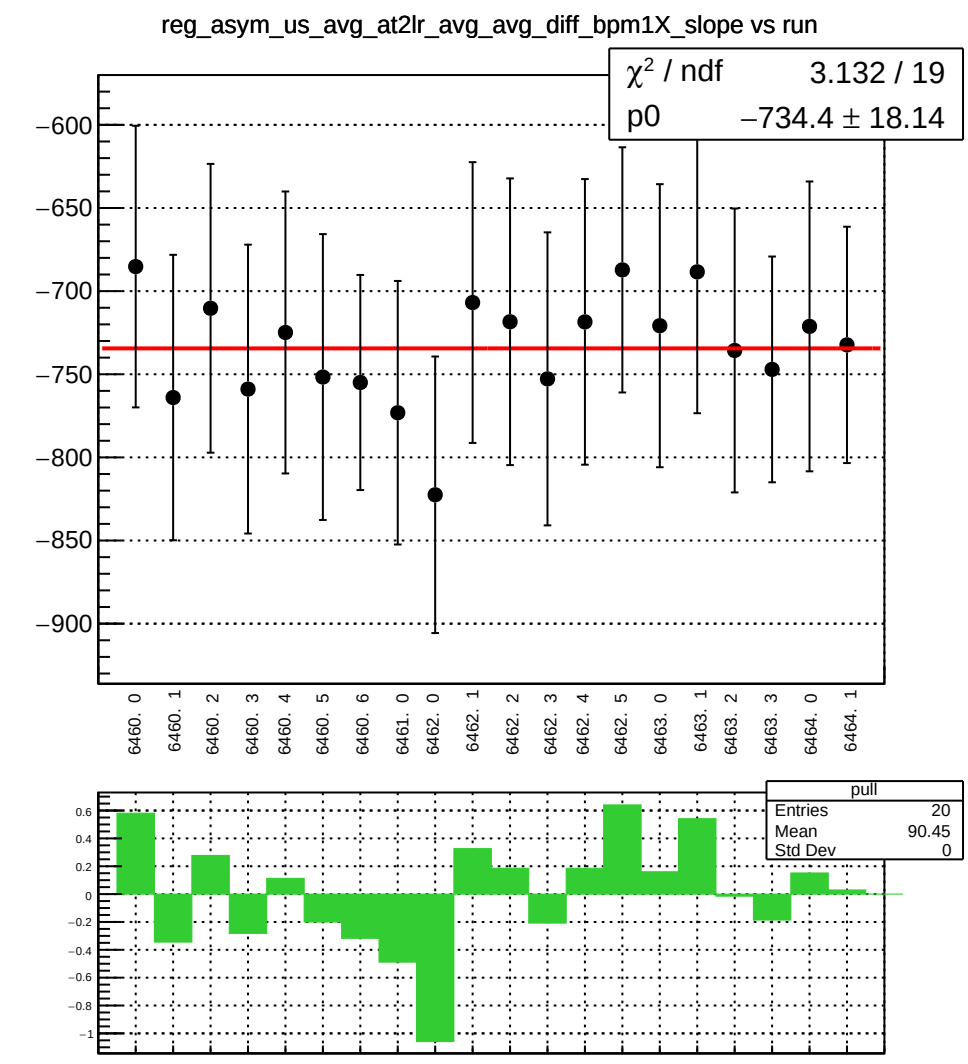

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 33.18 / 19
p0 −25.63 ± 3.34
20
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 892.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 20
Mean 0.003201
Std Dev 1.288
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

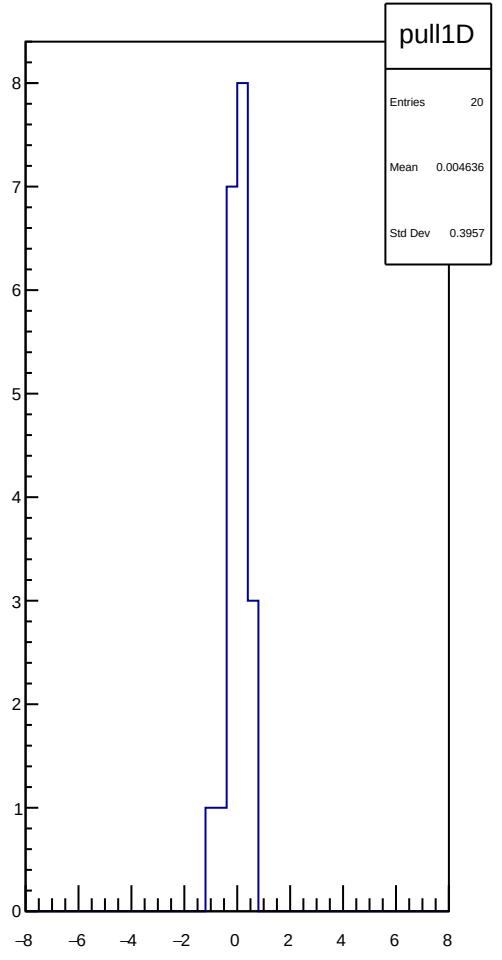

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.29 / 19
p0 −14.72 ± 3.908
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −129.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.02225
Std Dev 0.7509
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

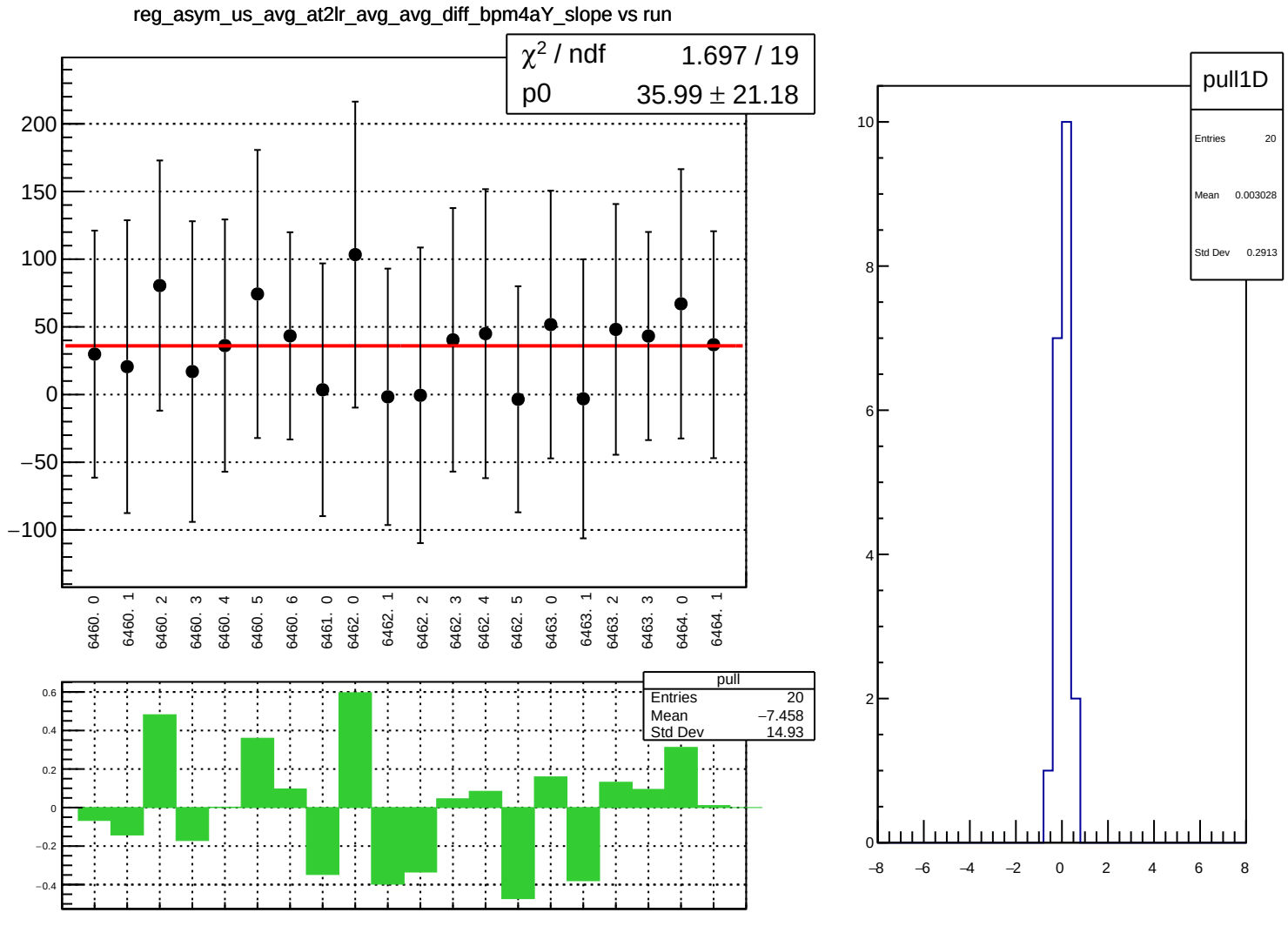

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.7 / 19
p0 37.78 ± 3.311
100
80
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 349.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.008075
Std Dev 1.279
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

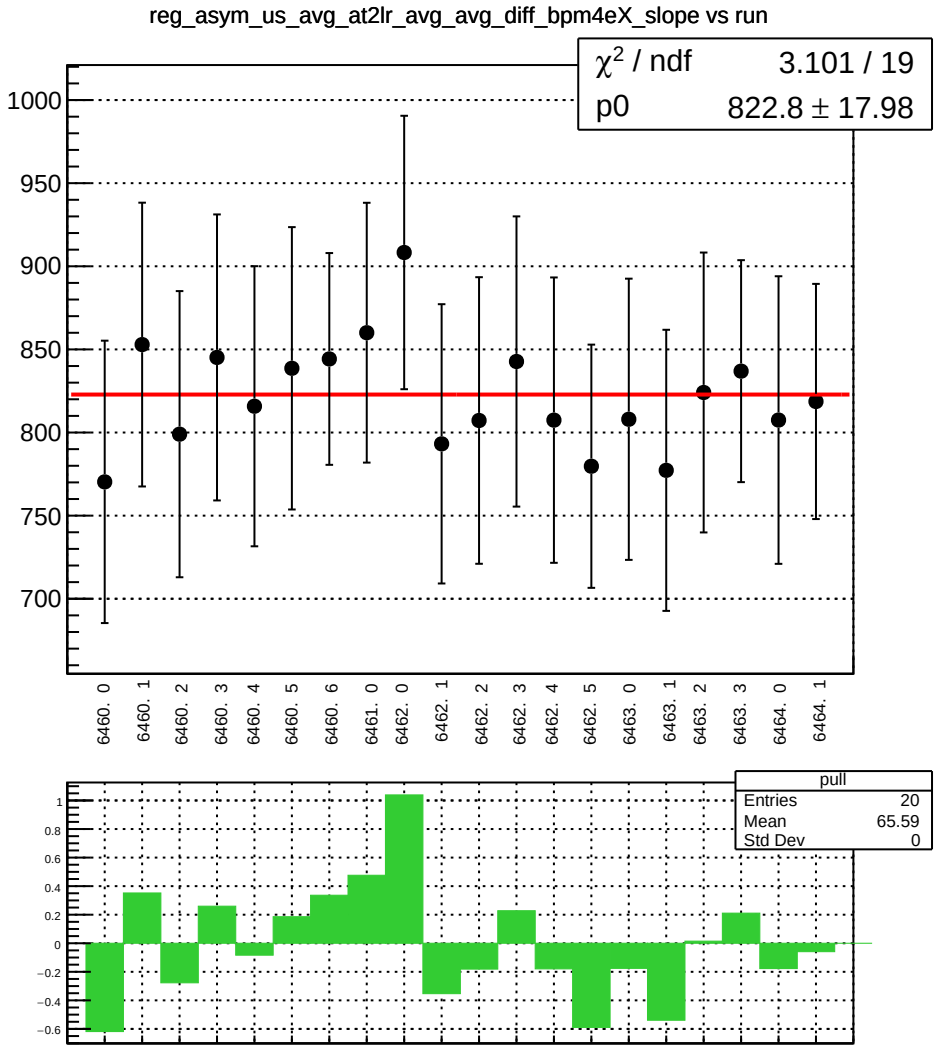

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.99 / 19
p0 58.68 ± 3.95
120
100
80
60
40
20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −161.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.02753
Std Dev 0.9994
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

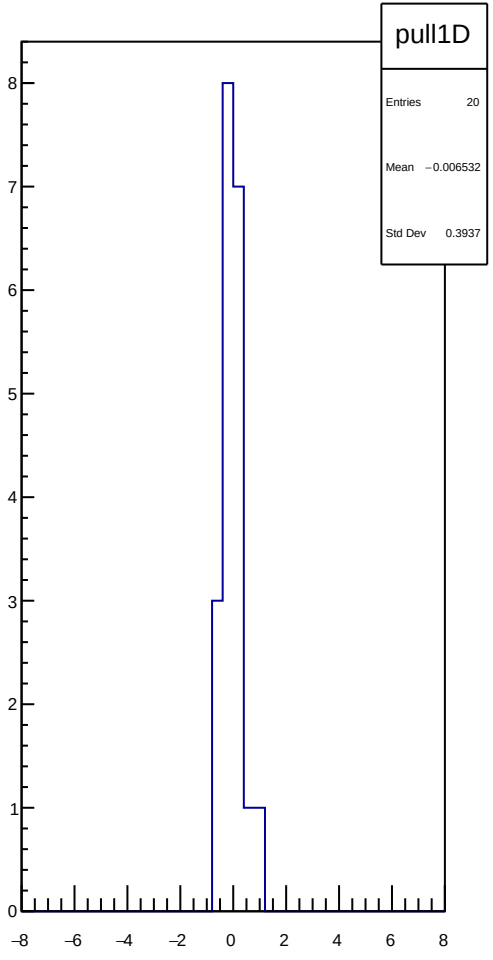

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 25.5 / 19
p0 −15.11 ± 0.165
−13
−14
−15
−16
−17
−18
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −3.129
Std Dev 30.92
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.01179
Std Dev 1.129
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

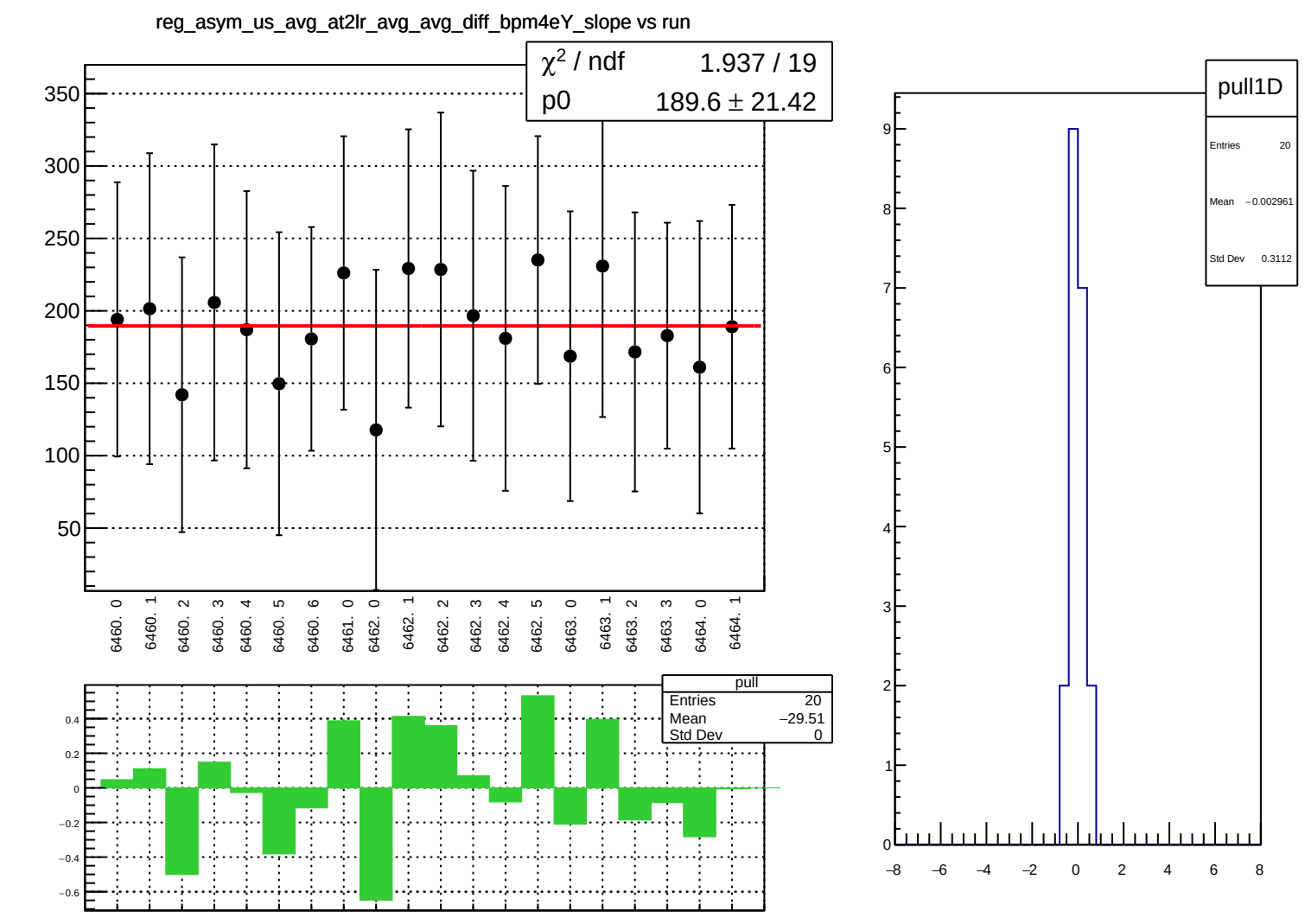

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.132 / 19
p0 −734.4 ± 18.14
−600
−650
−700
−750
−800
−850
−900
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 90.45
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

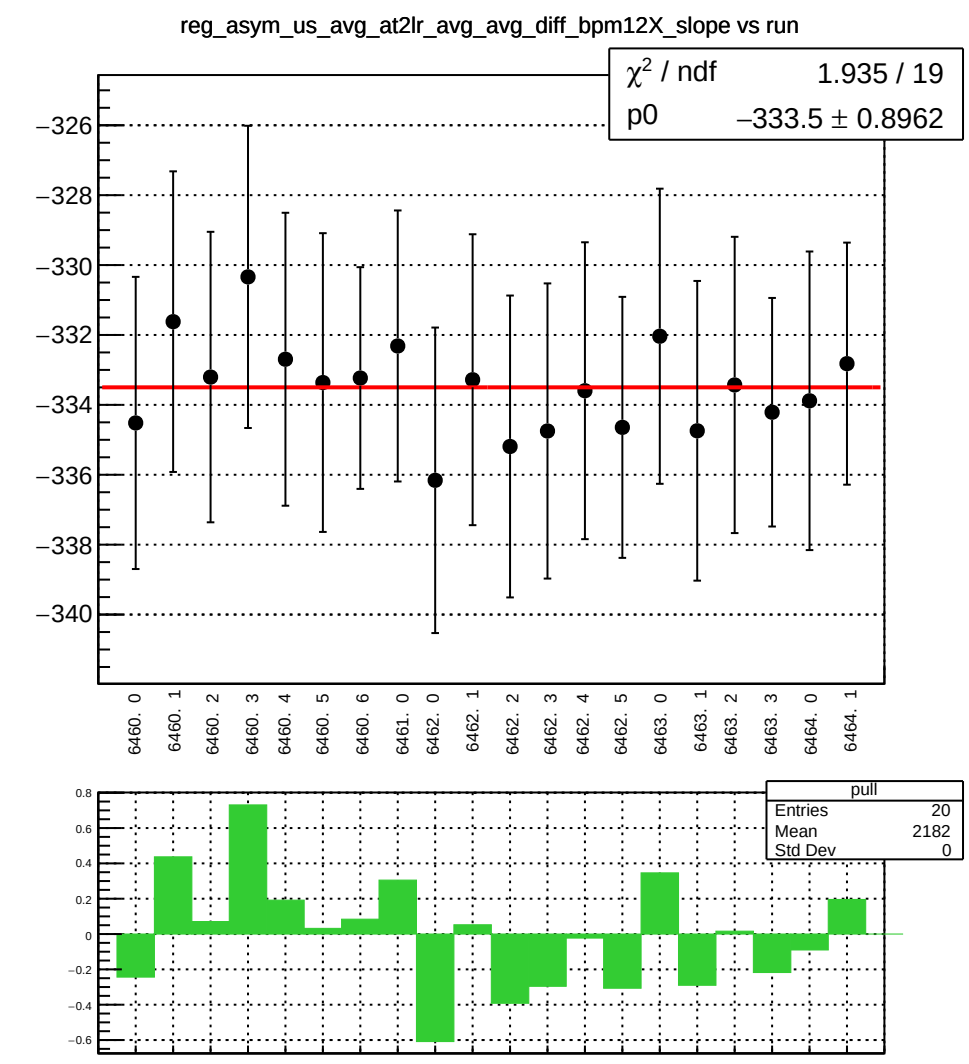

pull1D
Entries 20
Mean 0.004636
Std Dev 0.3957
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

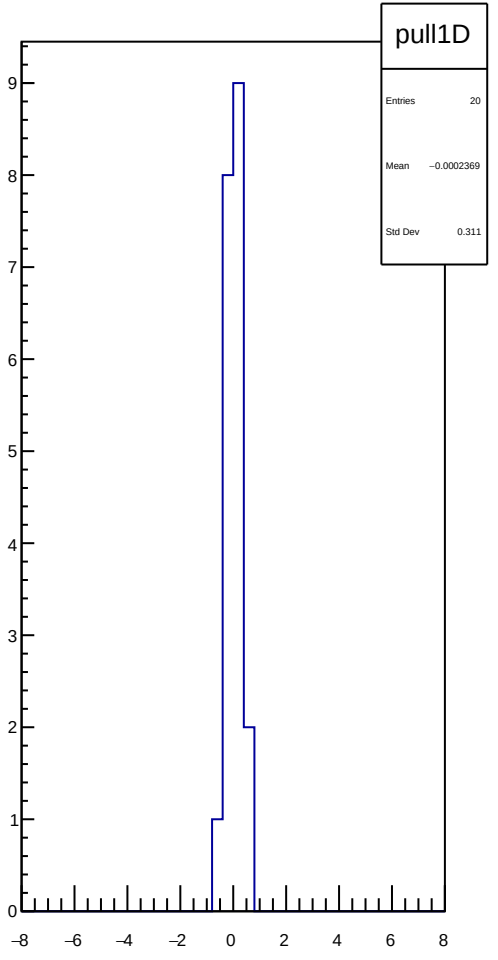

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.697 / 19
p0 35.99 ± 21.18
200
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −7.458
Std Dev 14.93
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 20
Mean 0.003028
Std Dev 0.2913
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

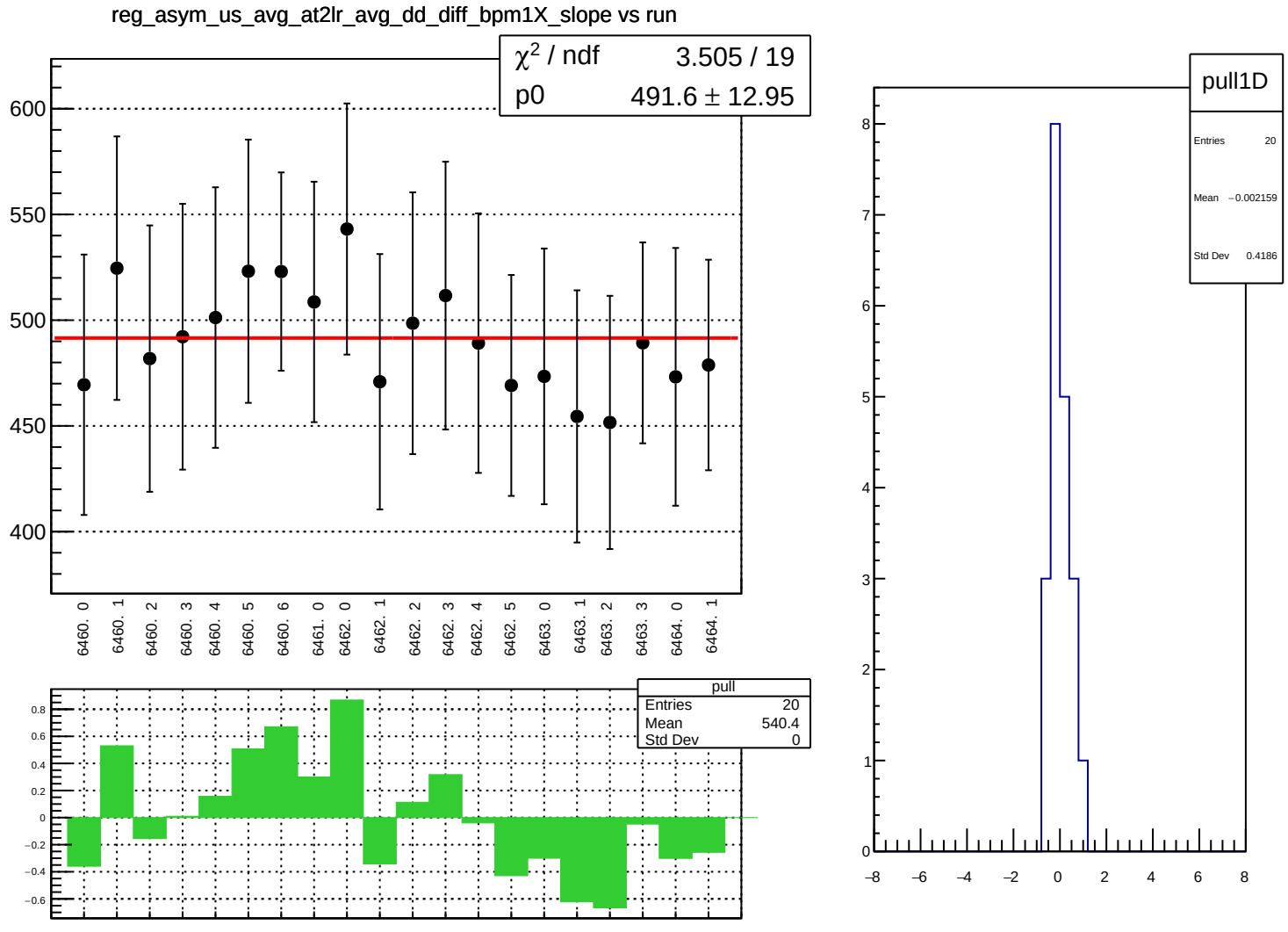

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.101 / 19
p0 822.8 ± 17.98
1000
950
900
850
800
750
700
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 65.59
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

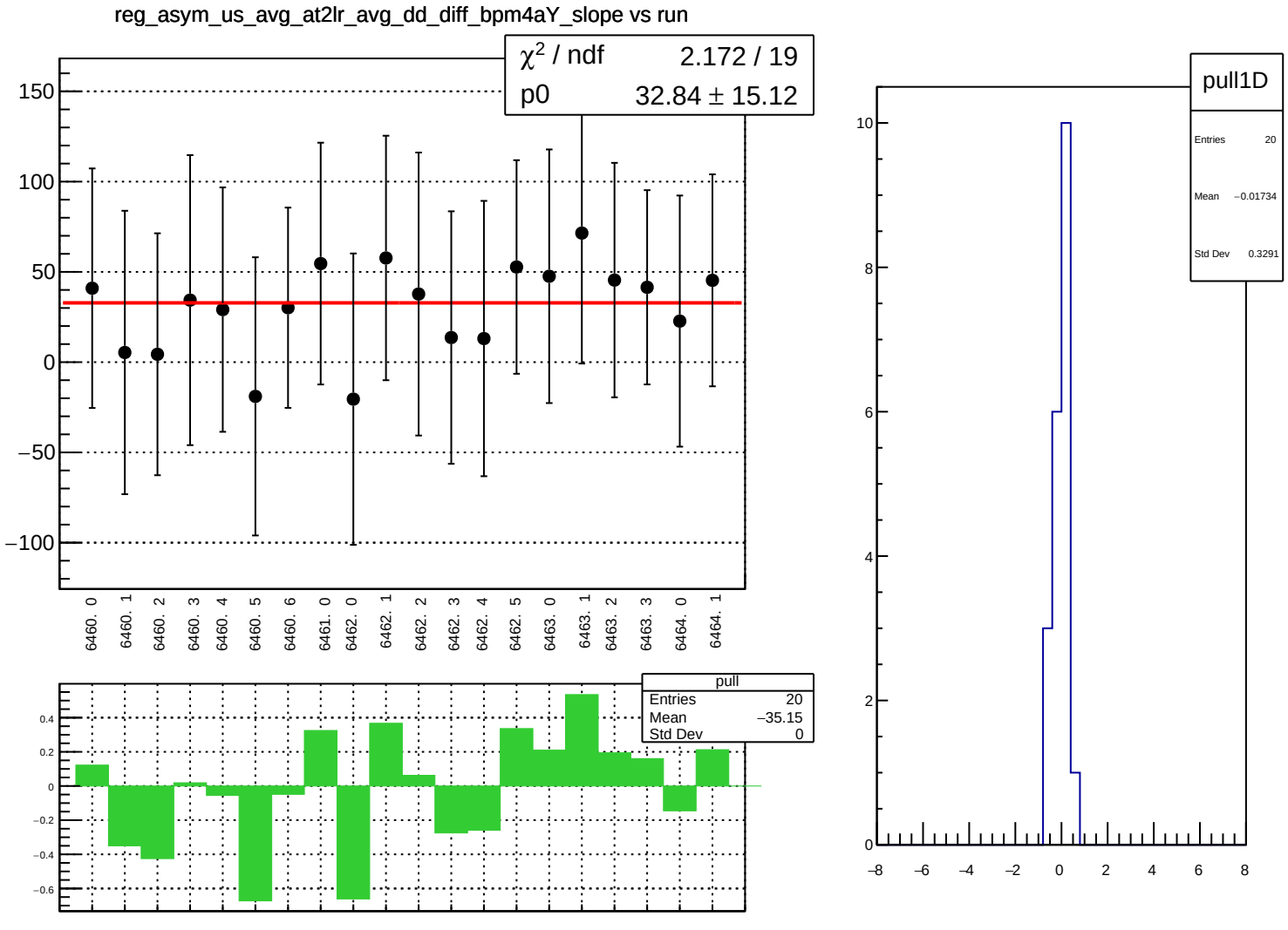

pull1D
Entries 20
Mean −0.006532
Std Dev 0.3937
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

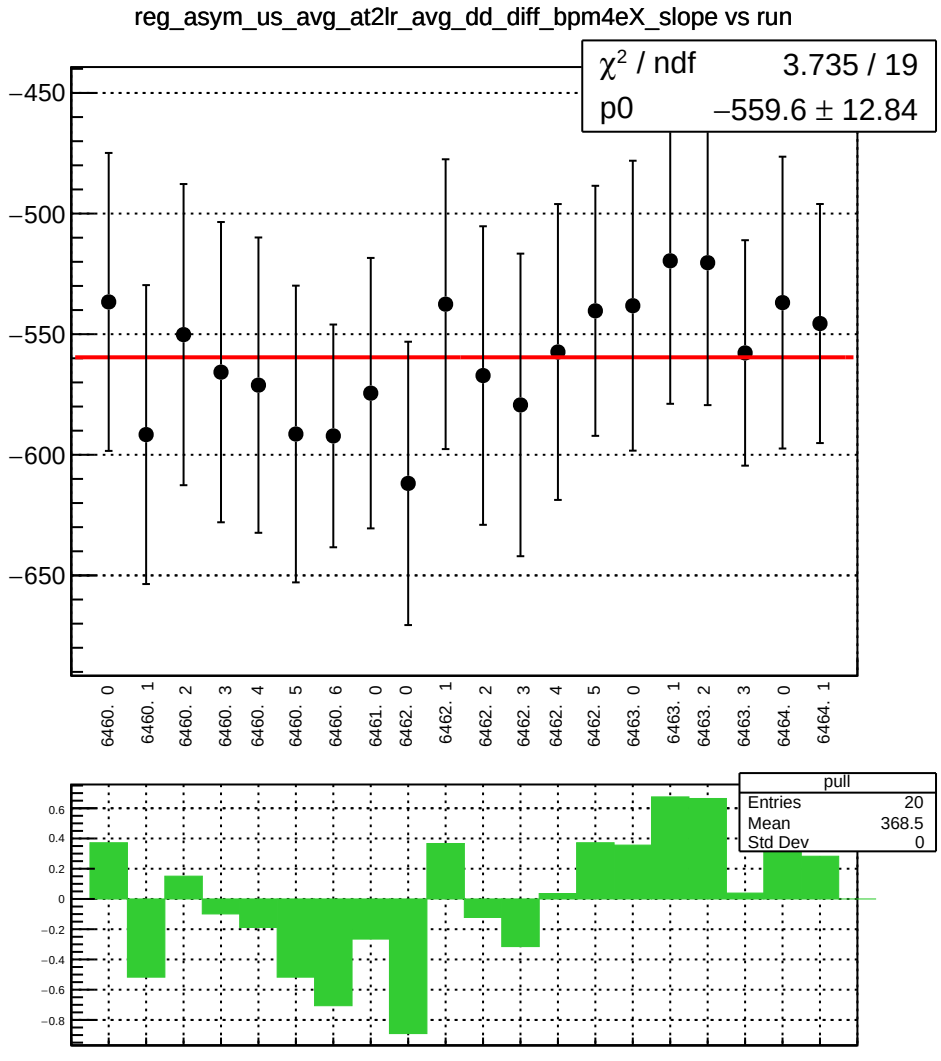

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.937 / 19
p0 189.6 ± 21.42
350
300
250
200
150
100
50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −29.51
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.002961
Std Dev 0.3112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

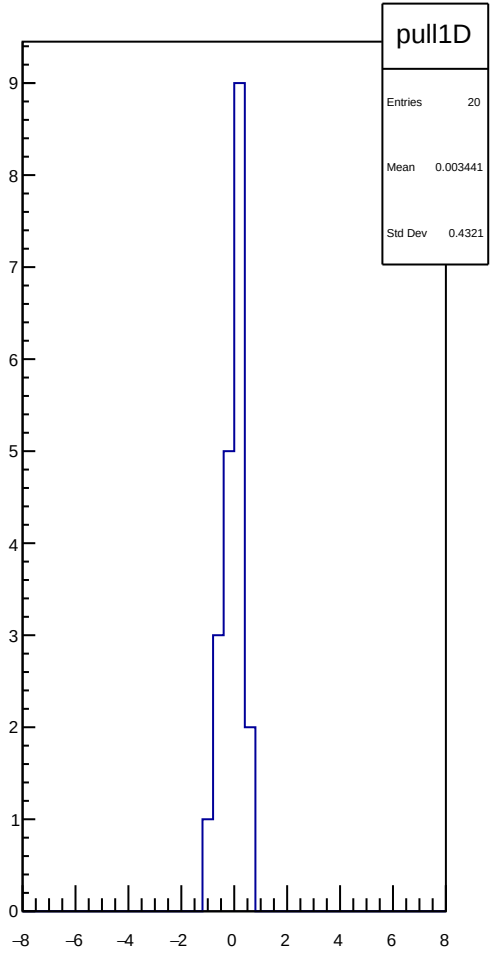

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1.935 / 19
p0 −333.5 ± 0.8962
−326
−328
−330
−332
−334
−336
−338
−340
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2182
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

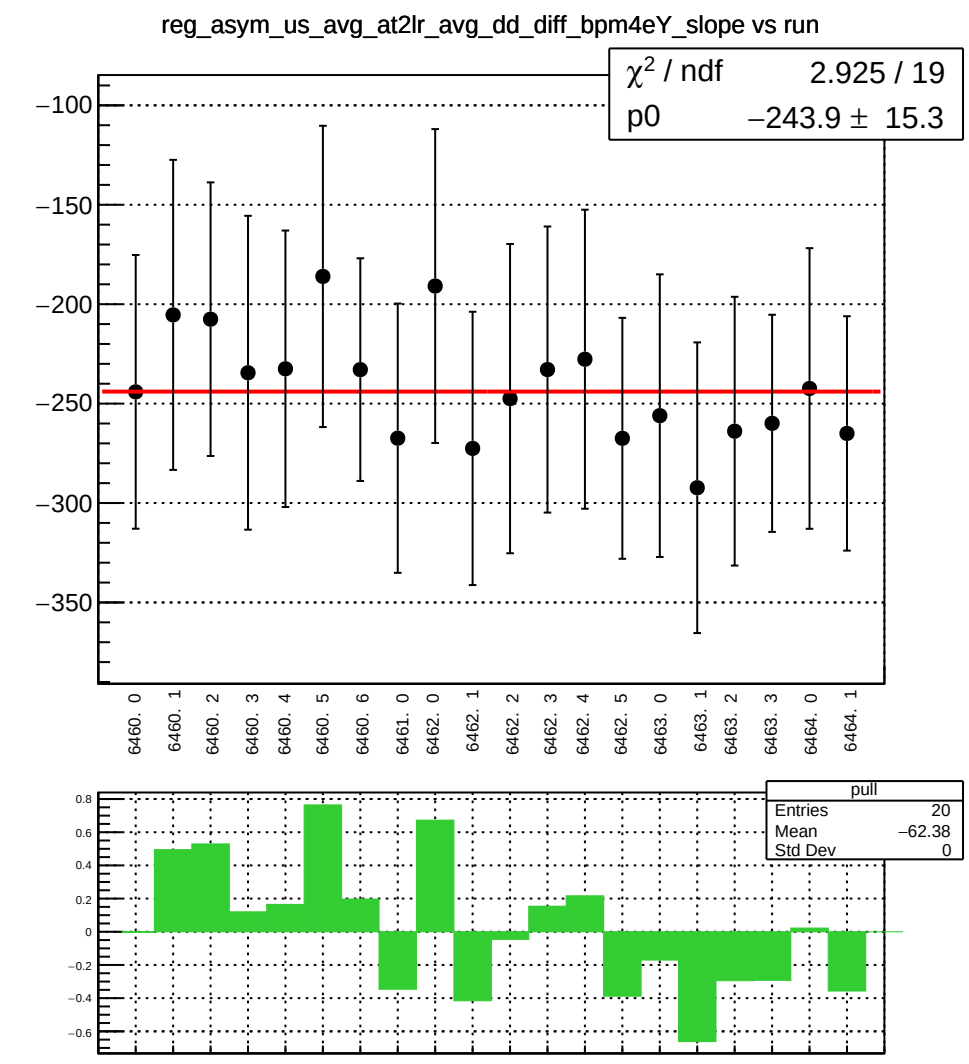

pull1D
Entries 20
Mean −0.0002369
Std Dev 0.311
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

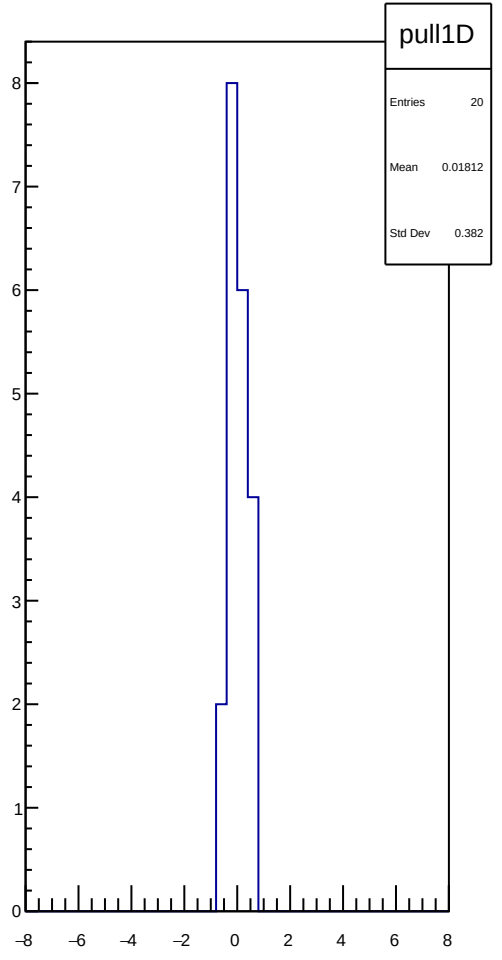

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 3.505 / 19
p0 491.6 ± 12.95
600
550
500
450
400
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 540.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.002159
Std Dev 0.4186
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

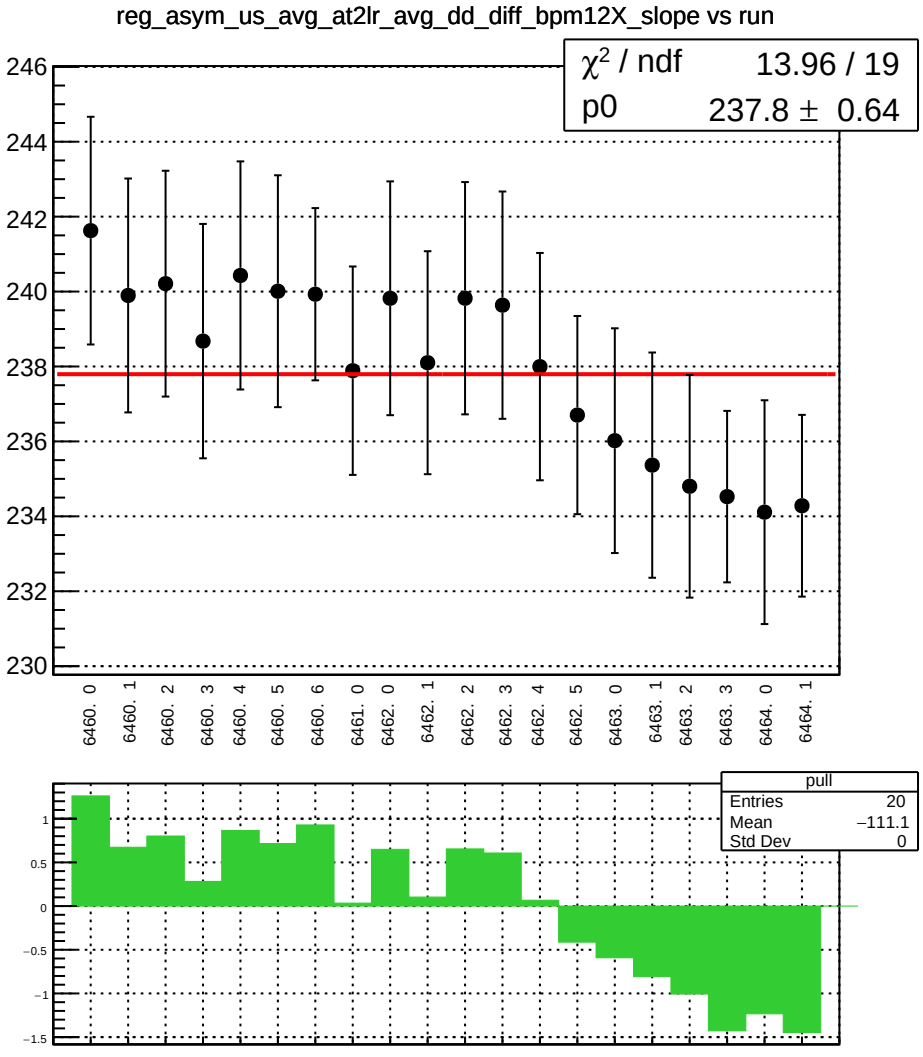

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.172 / 19
p0 32.84 ± 15.12
150
100
50
0
−50
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −35.15
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.01734
Std Dev 0.3291
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

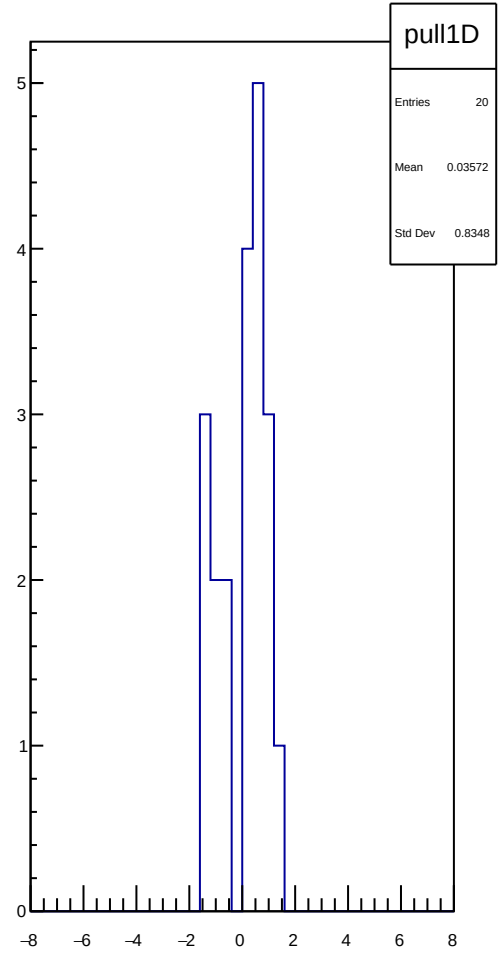

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.735 / 19
p0 −559.6 ± 12.84
−450
−500
−550
−600
−650
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 368.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

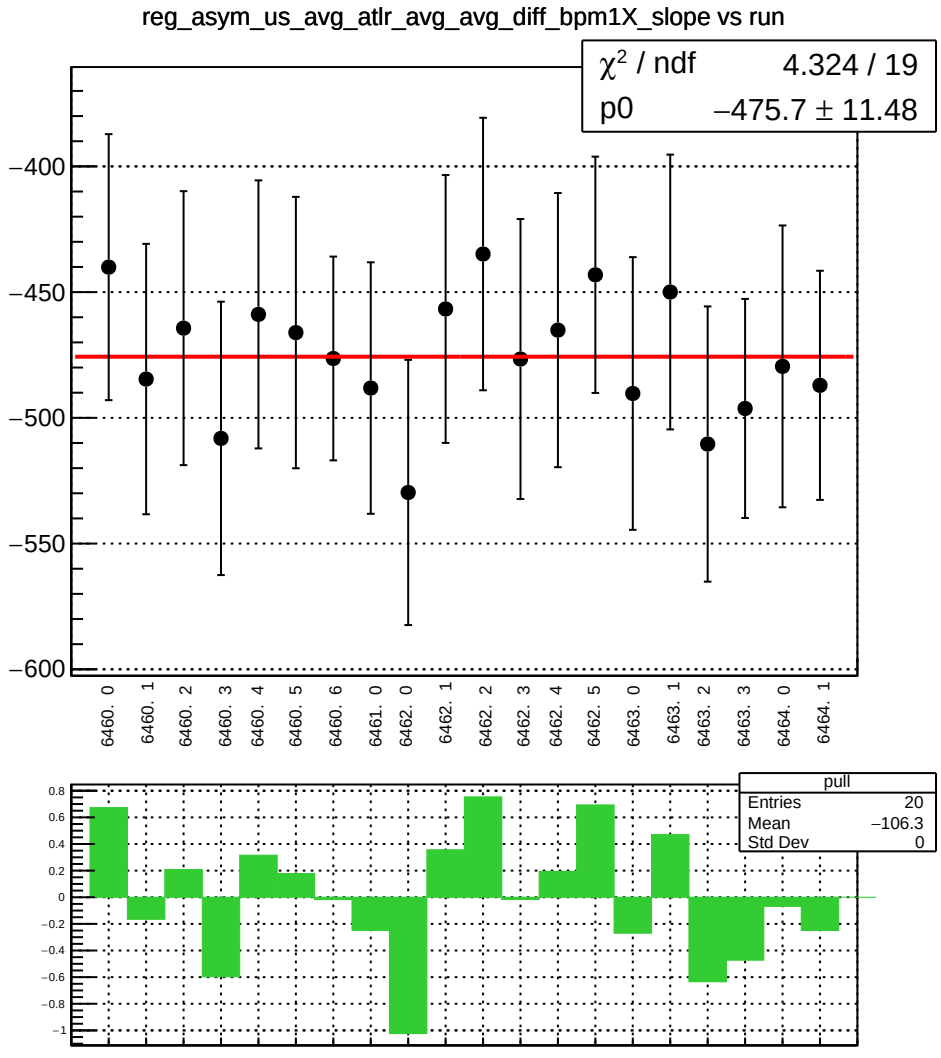

pull1D
Entries 20
Mean 0.003441
Std Dev 0.4321
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

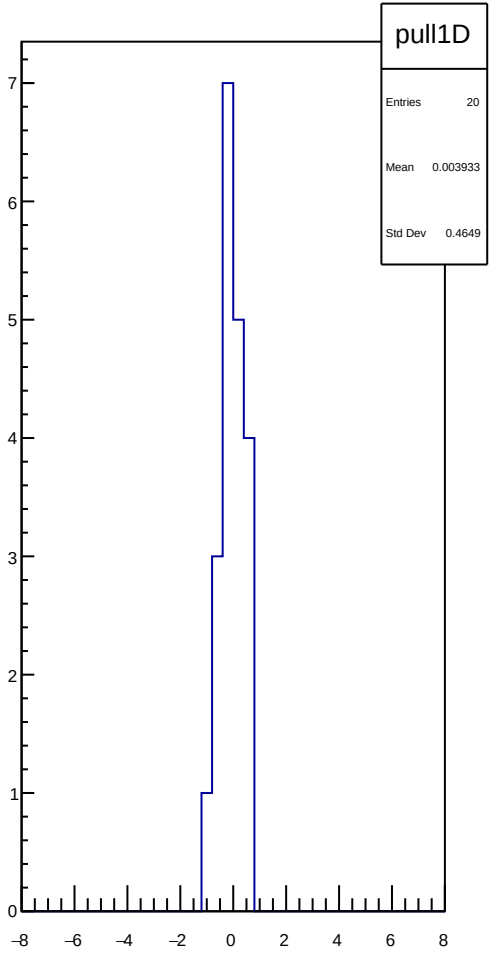

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.925 / 19
p0 −243.9 ± 15.3
−100
−150
−200
−250
−300
−350
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −62.38
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

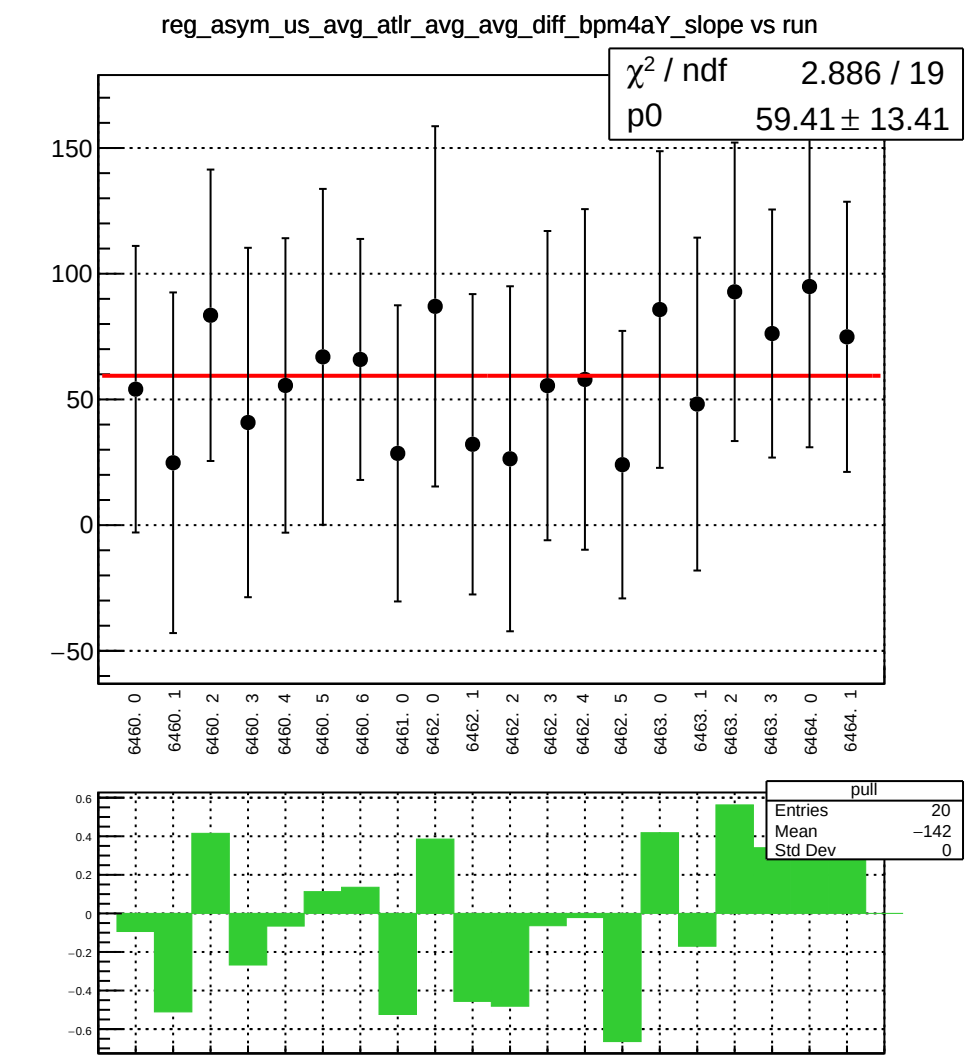

pull1D
Entries 20
Mean 0.01812
Std Dev 0.382
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

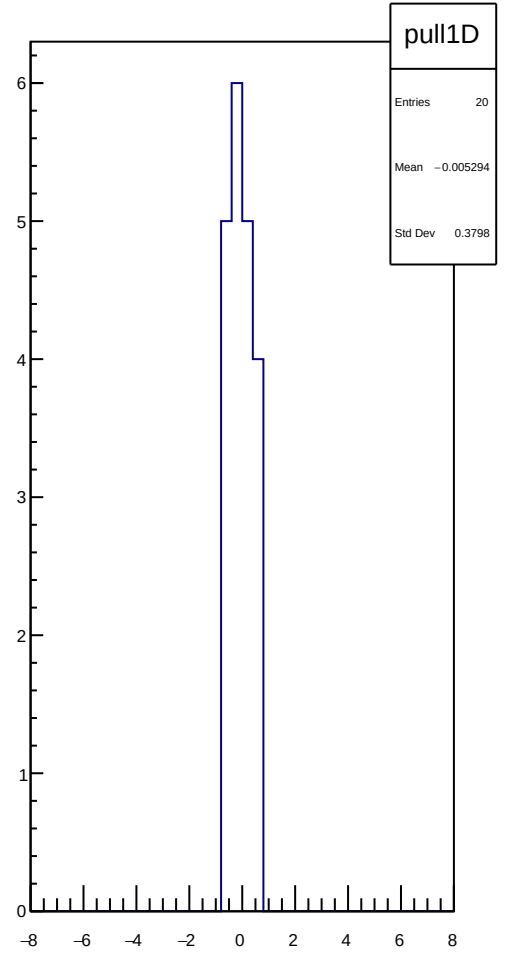

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 13.96 / 19
p0 237.8 ± 0.64
246
244
242
240
238
236
234
232
230
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −111.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

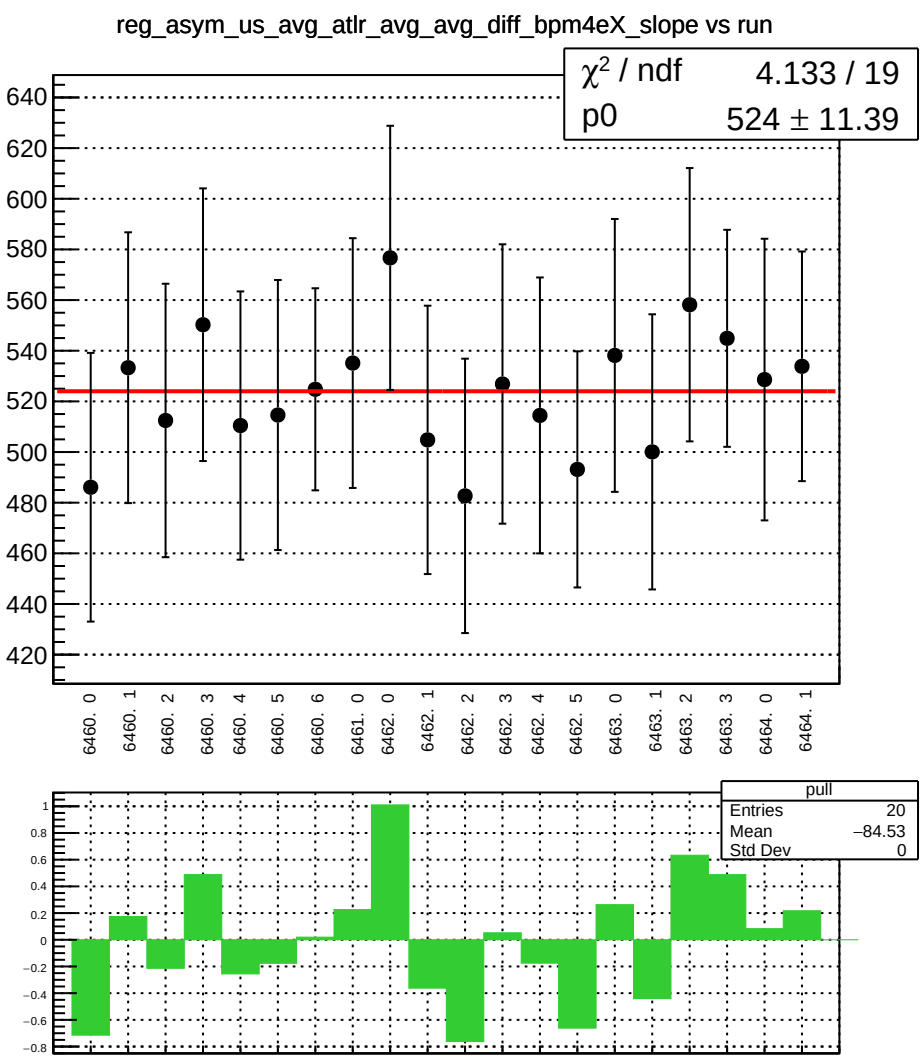

pull1D
Entries 20
Mean 0.03572
Std Dev 0.8348
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

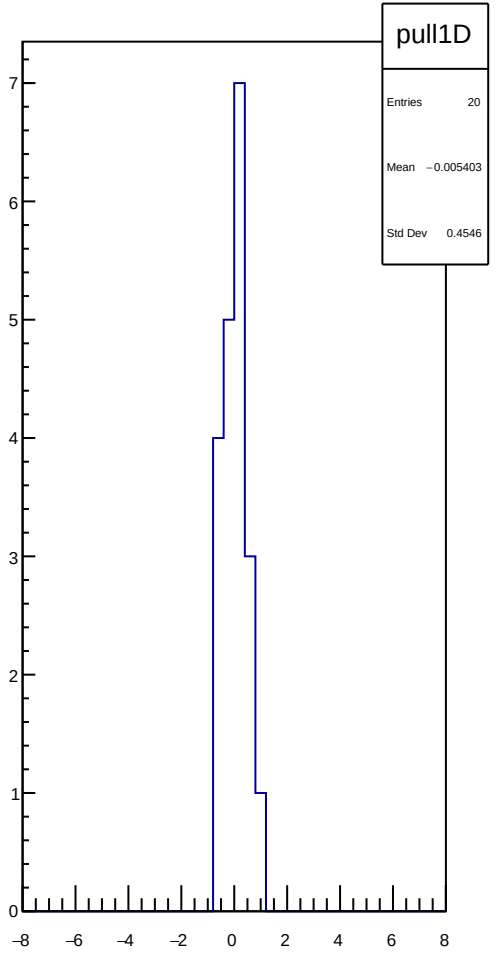

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.324 / 19
p0 −475.7 ± 11.48
−400
−450
−500
−550
−600
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −106.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

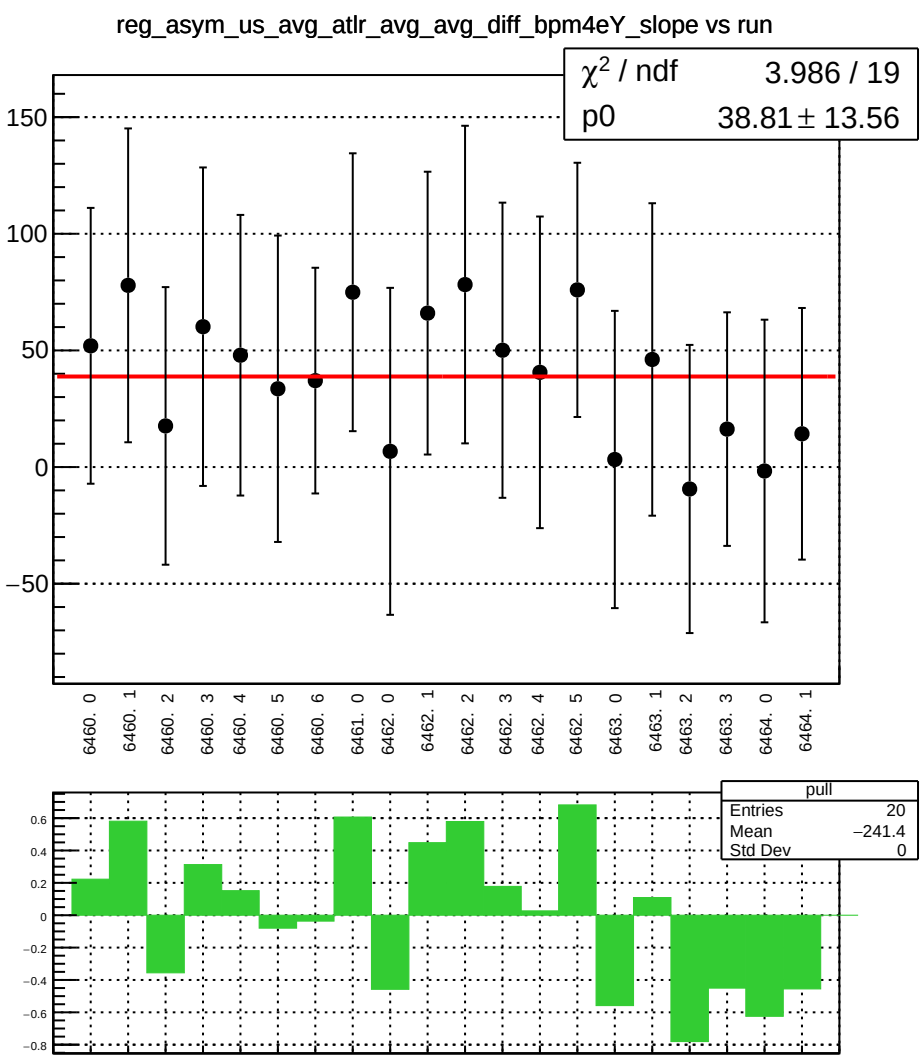

pull1D
Entries 20
Mean 0.003933
Std Dev 0.4649
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

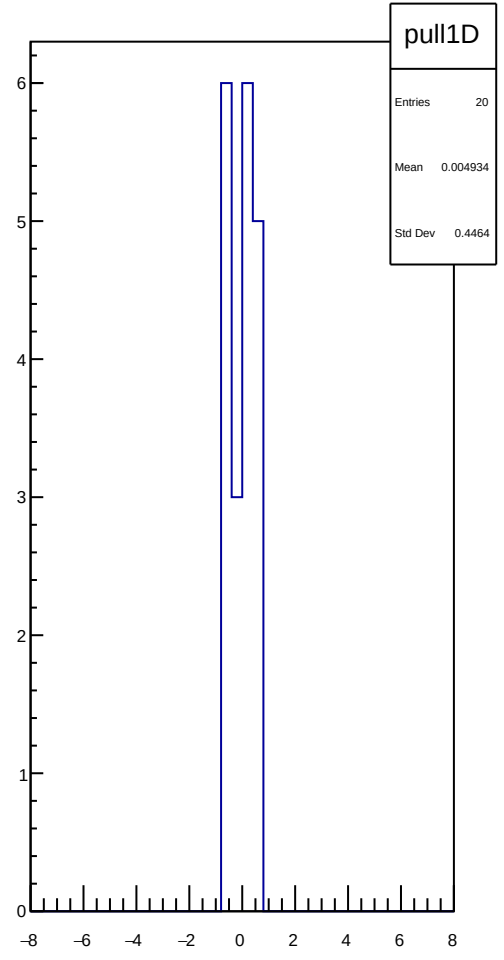

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.886 / 19
p0 59.41 ± 13.41
150
100
50
0
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −142
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

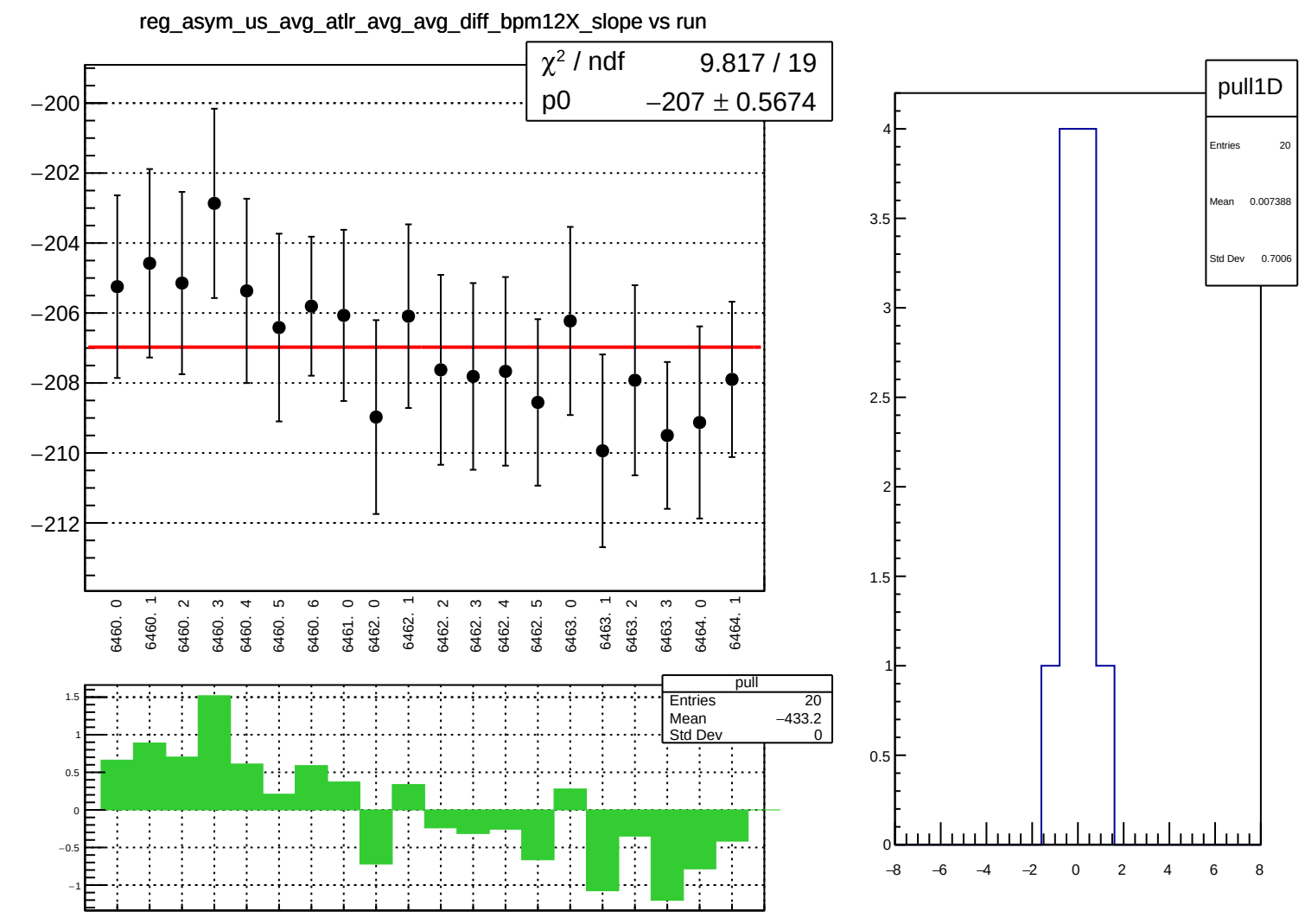

pull1D
Entries 20
Mean −0.005294
Std Dev 0.3798
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

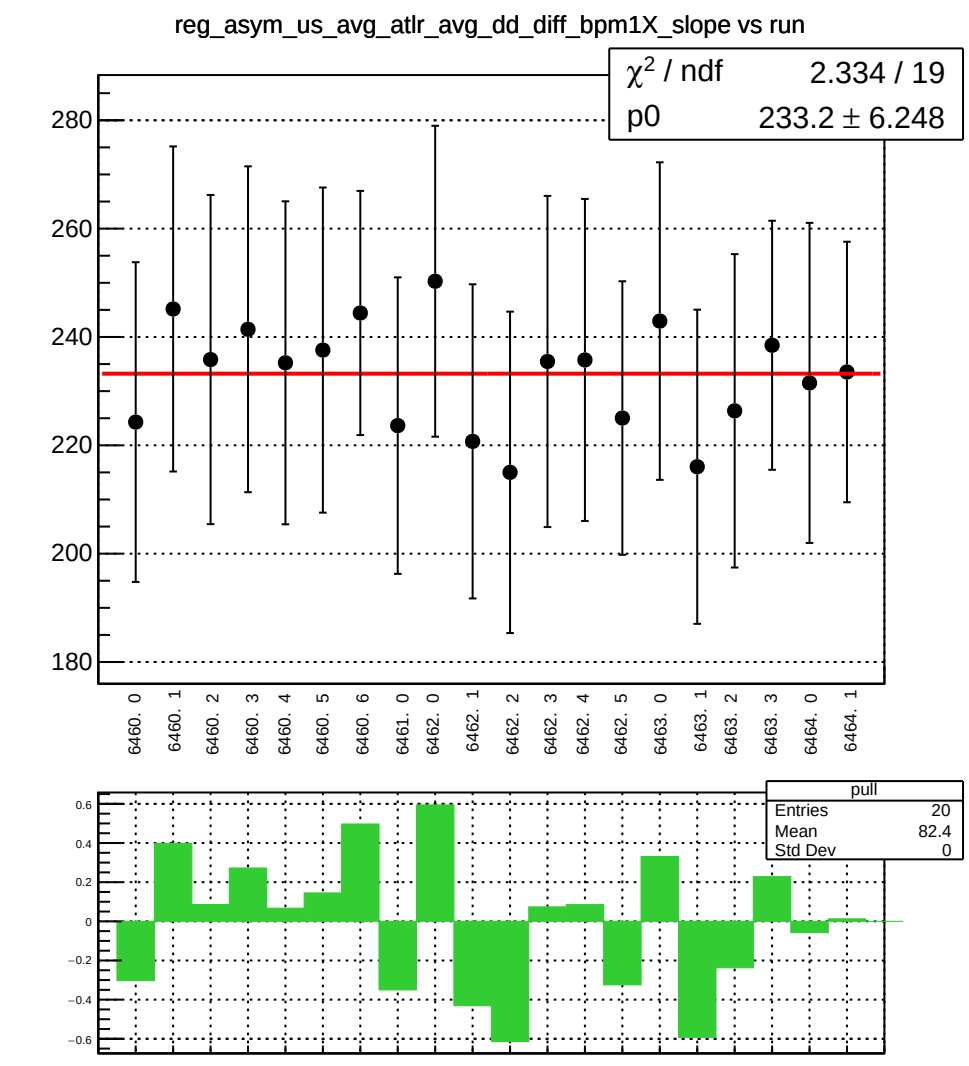

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.133 / 19
p0 524 ± 11.39
640
620
600
580
560
540
520
500
480
460
440
420
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −84.53
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

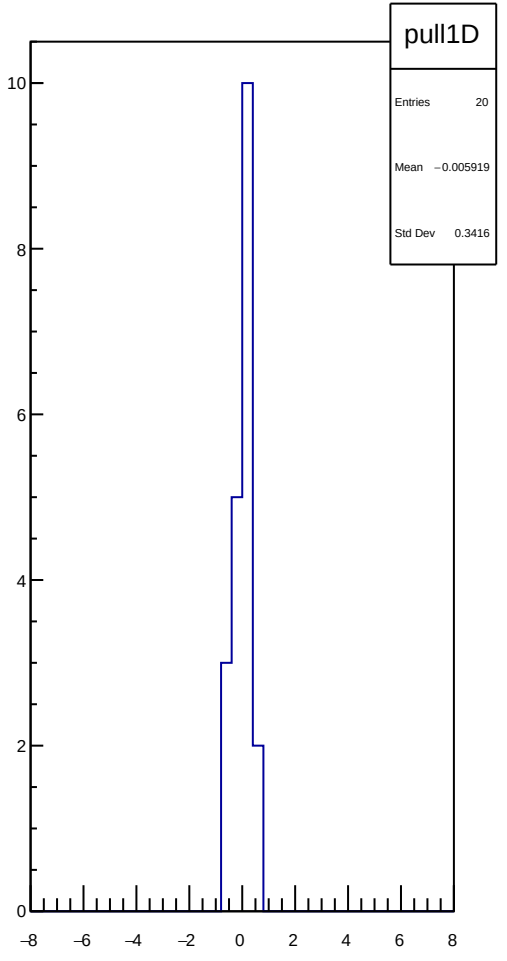

pull1D
Entries 20
Mean −0.005403
Std Dev 0.4546
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

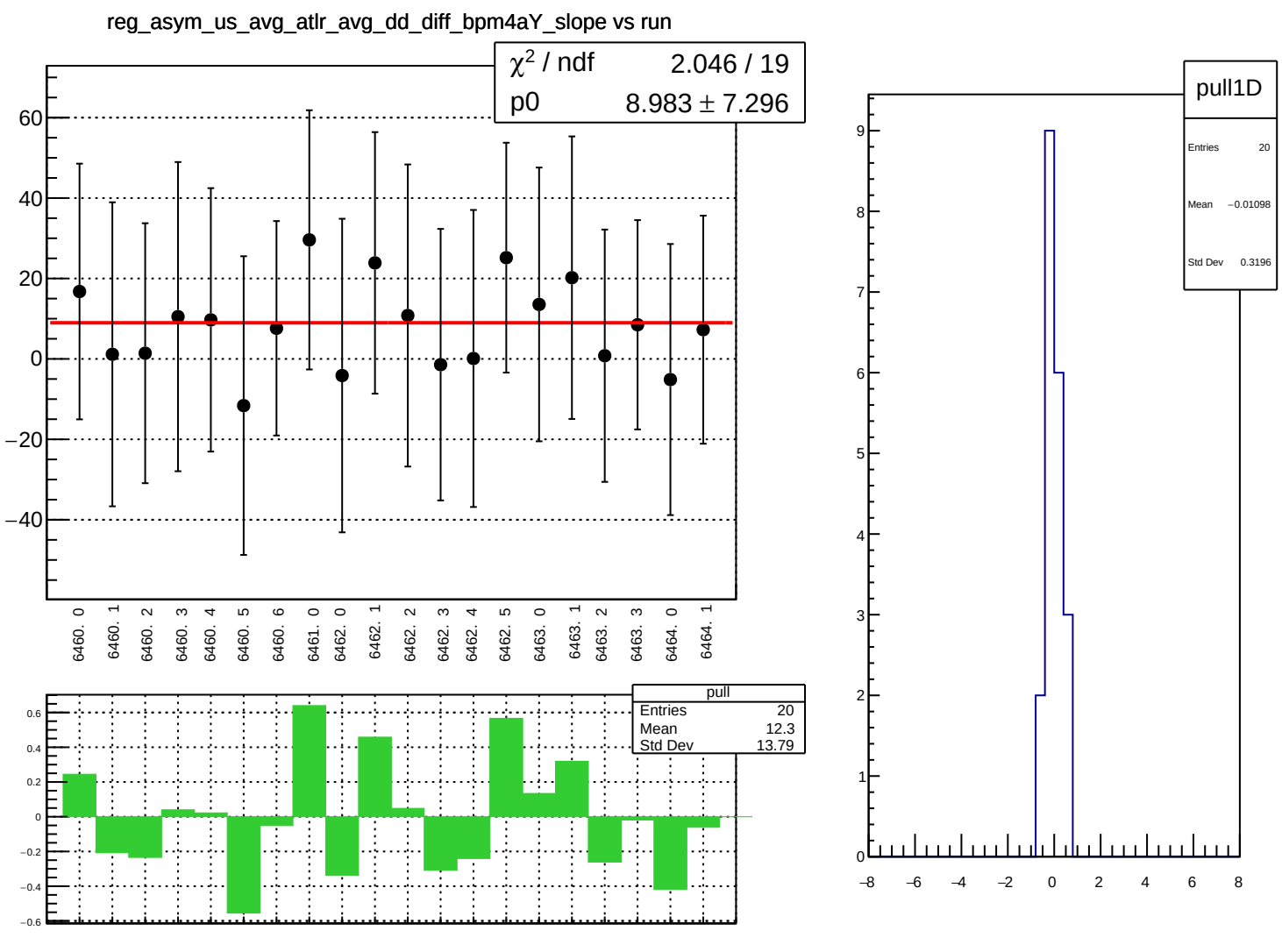

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.986 / 19
p0 38.81 ± 13.56
150
100
50
0
−50
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −241.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

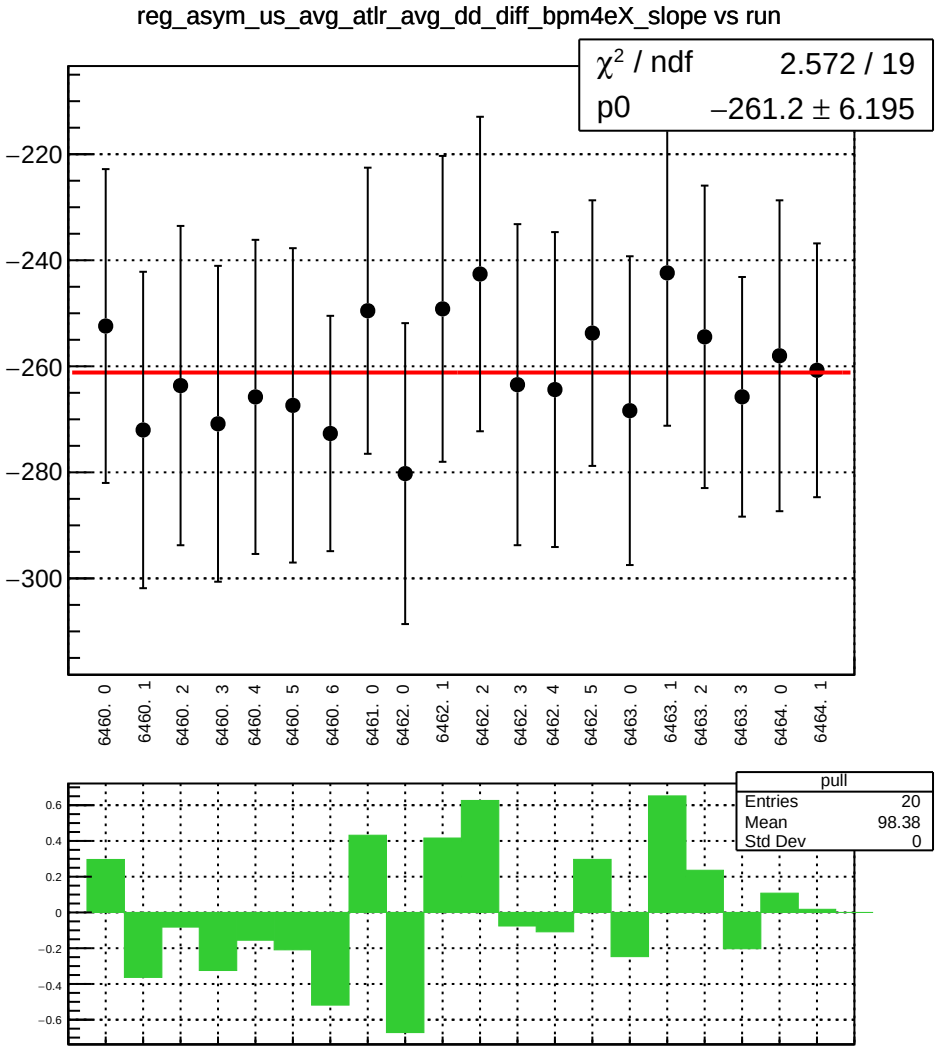

pull1D
Entries 20
Mean 0.004934
Std Dev 0.4464
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

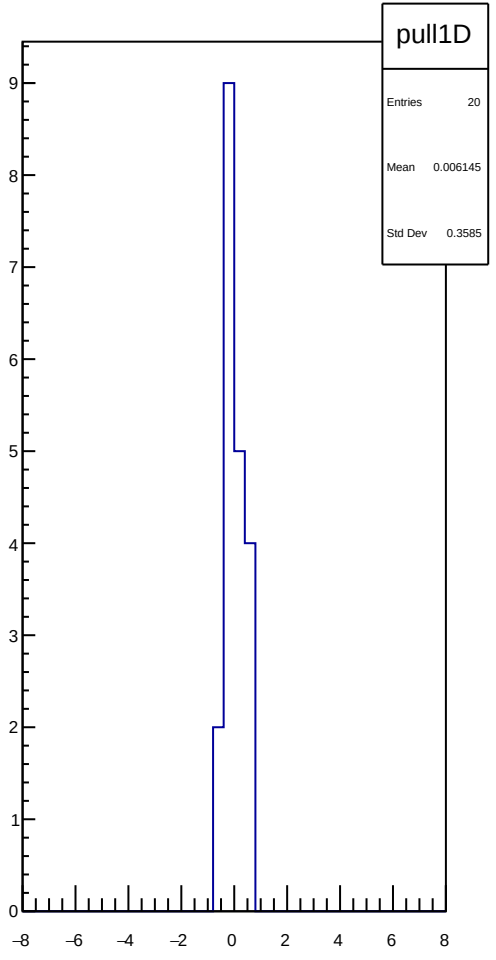

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 9.817 / 19
p0 −207 ± 0.5674
−200
−202
−204
−206
−208
−210
−212
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −433.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.007388
Std Dev 0.7006
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

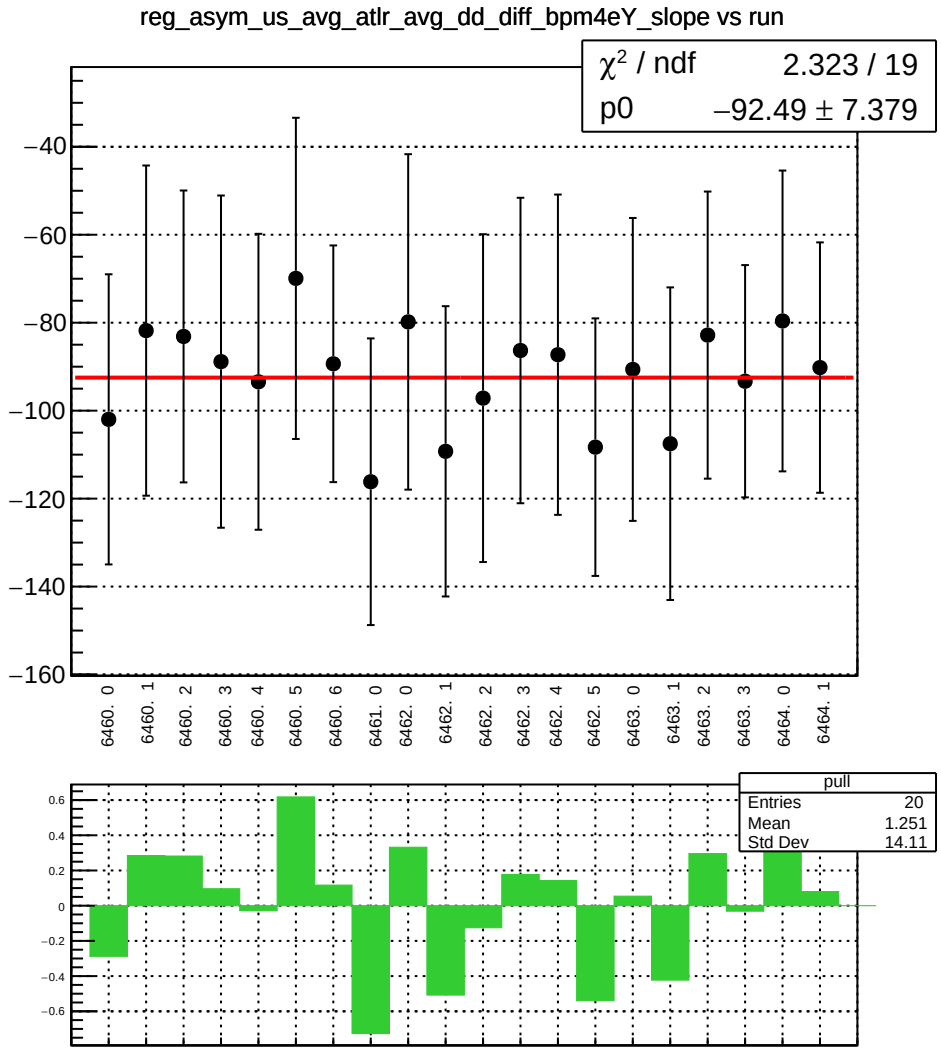

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 2.334 / 19
p0 233.2 ± 6.248
280
260
240
220
200
180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 82.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

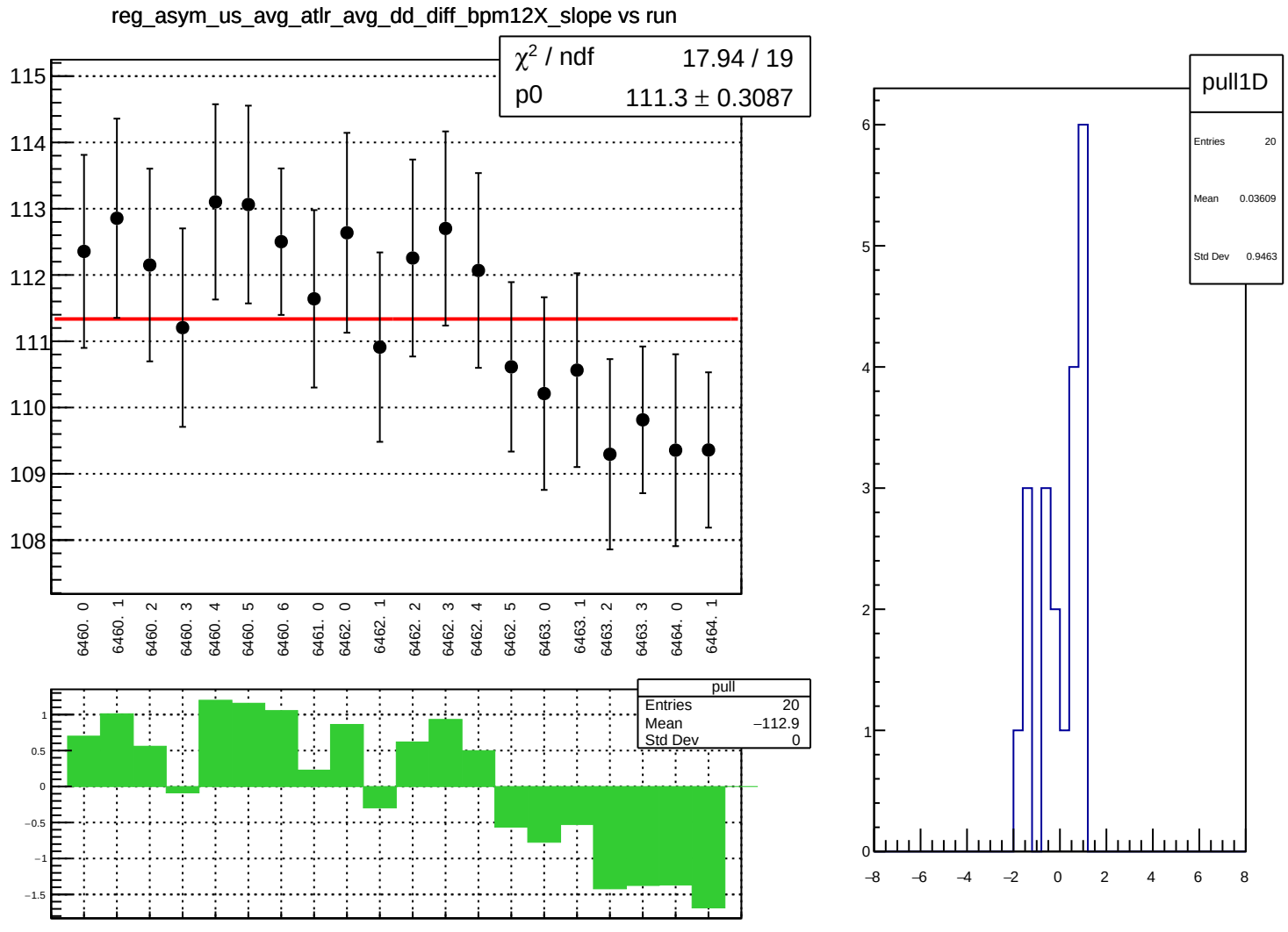

pull1D
Entries 20
Mean −0.005919
Std Dev 0.3416
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

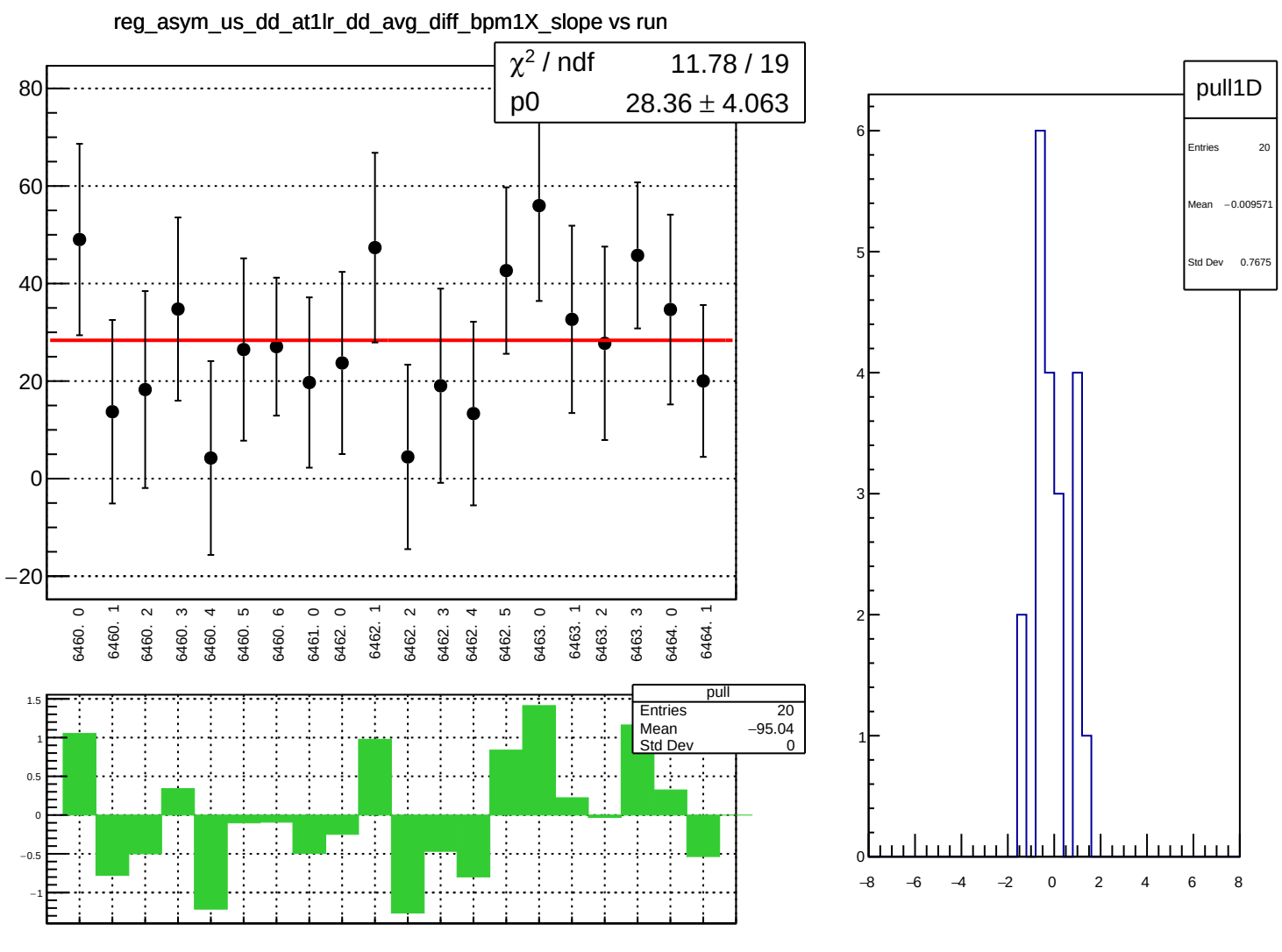

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.046 / 19
p0 8.983 ± 7.296
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 12.3
Std Dev 13.79
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean −0.01098
Std Dev 0.3196
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

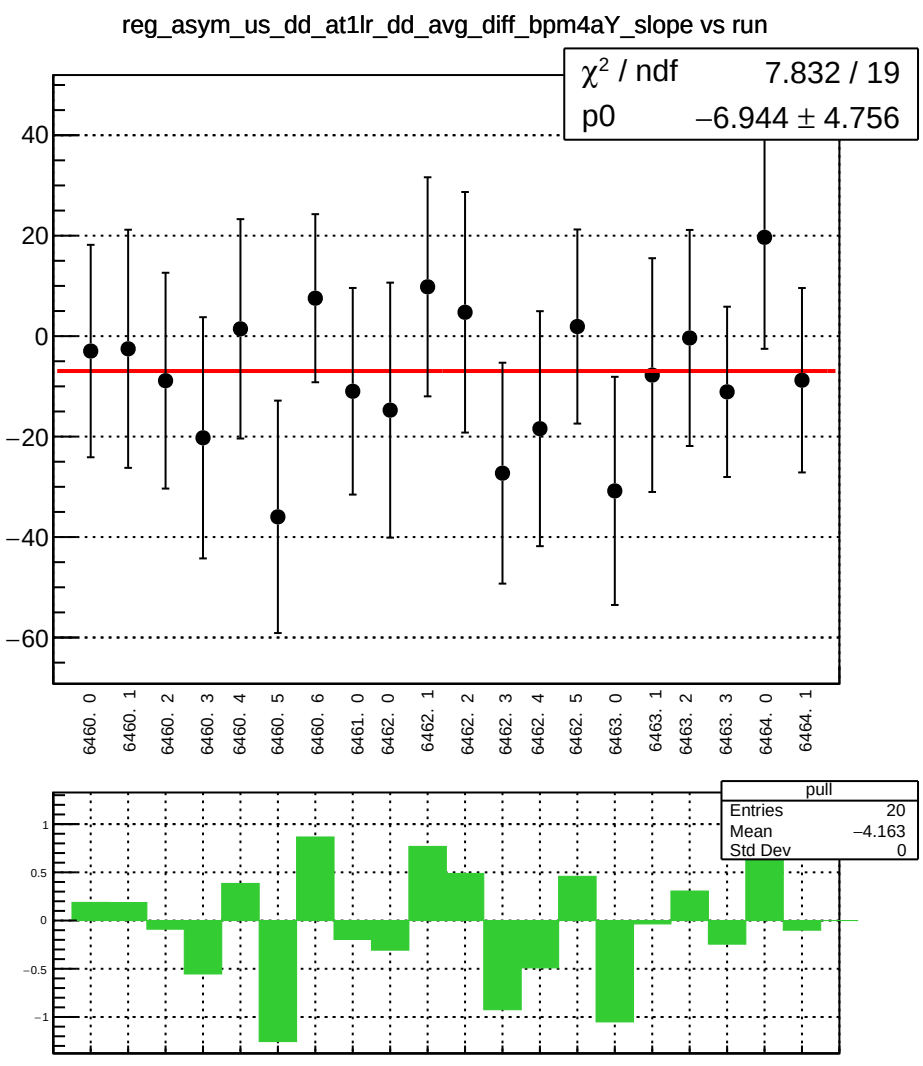

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.572 / 19
p0 −261.2 ± 6.195
−220
−240
−260
−280
−300
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 98.38
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

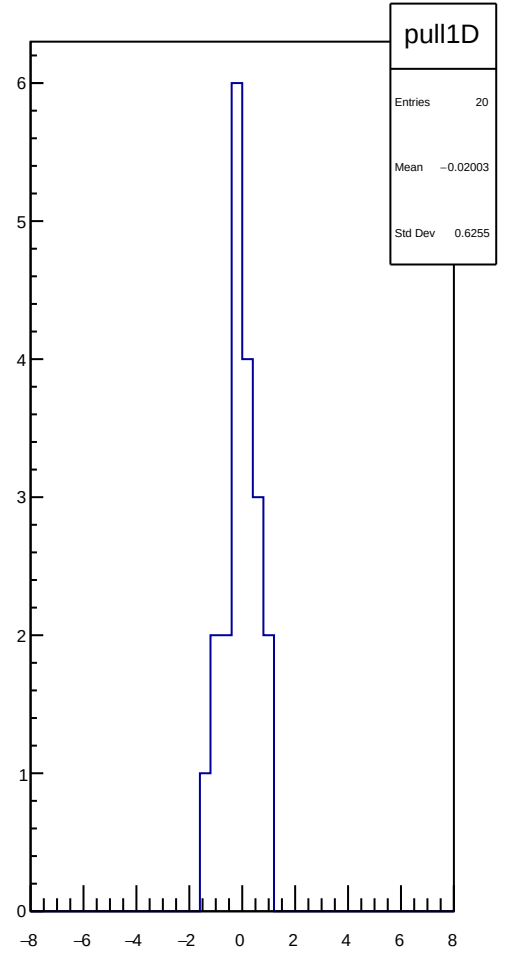

pull1D
Entries 20
Mean 0.006145
Std Dev 0.3585
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

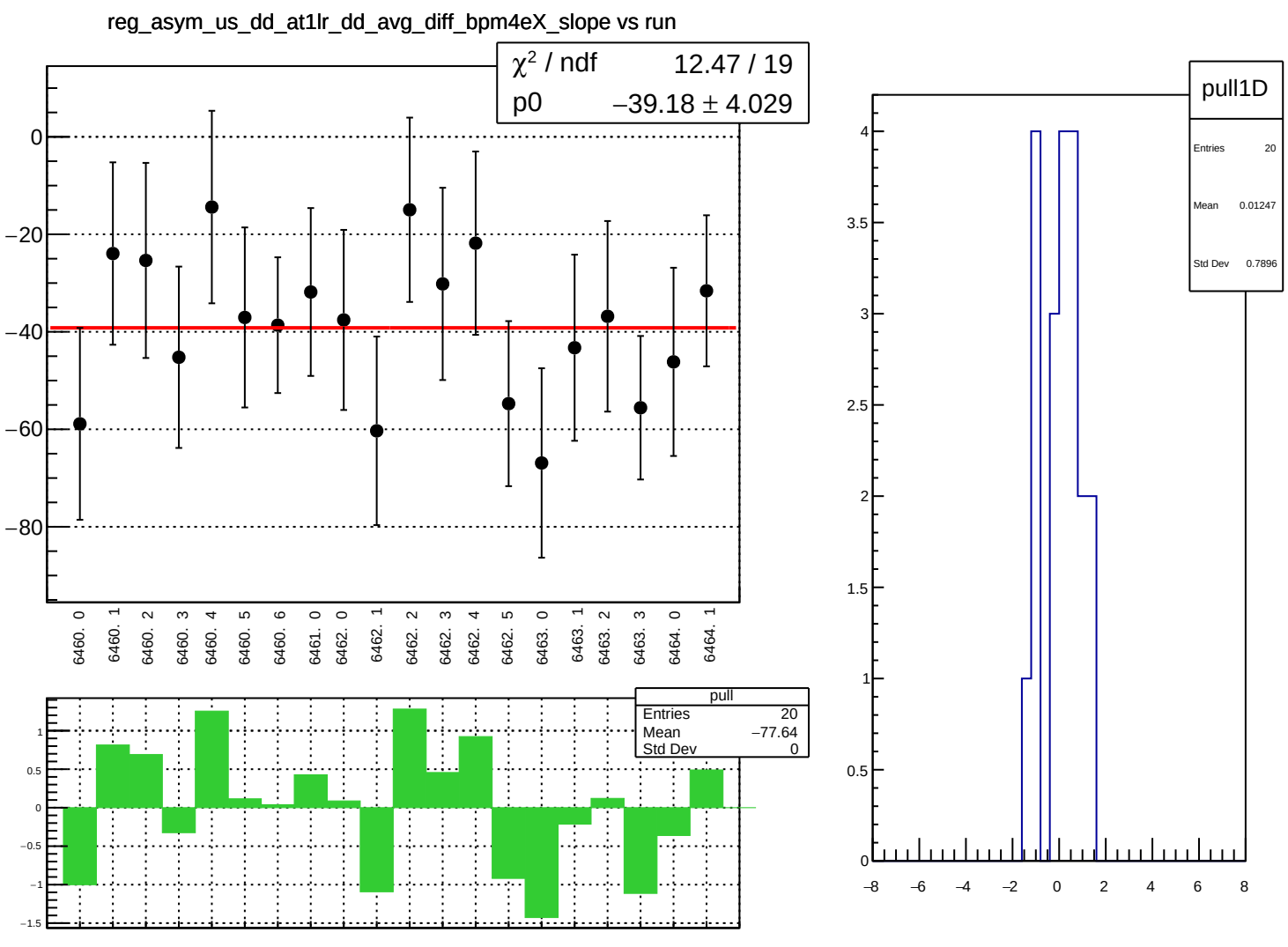

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.323 / 19
p0 −92.49 ± 7.379
−40
−60
−80
−100
−120
−140
−160
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.251
Std Dev 14.11
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 20
Mean 0.009411
Std Dev 0.3407
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

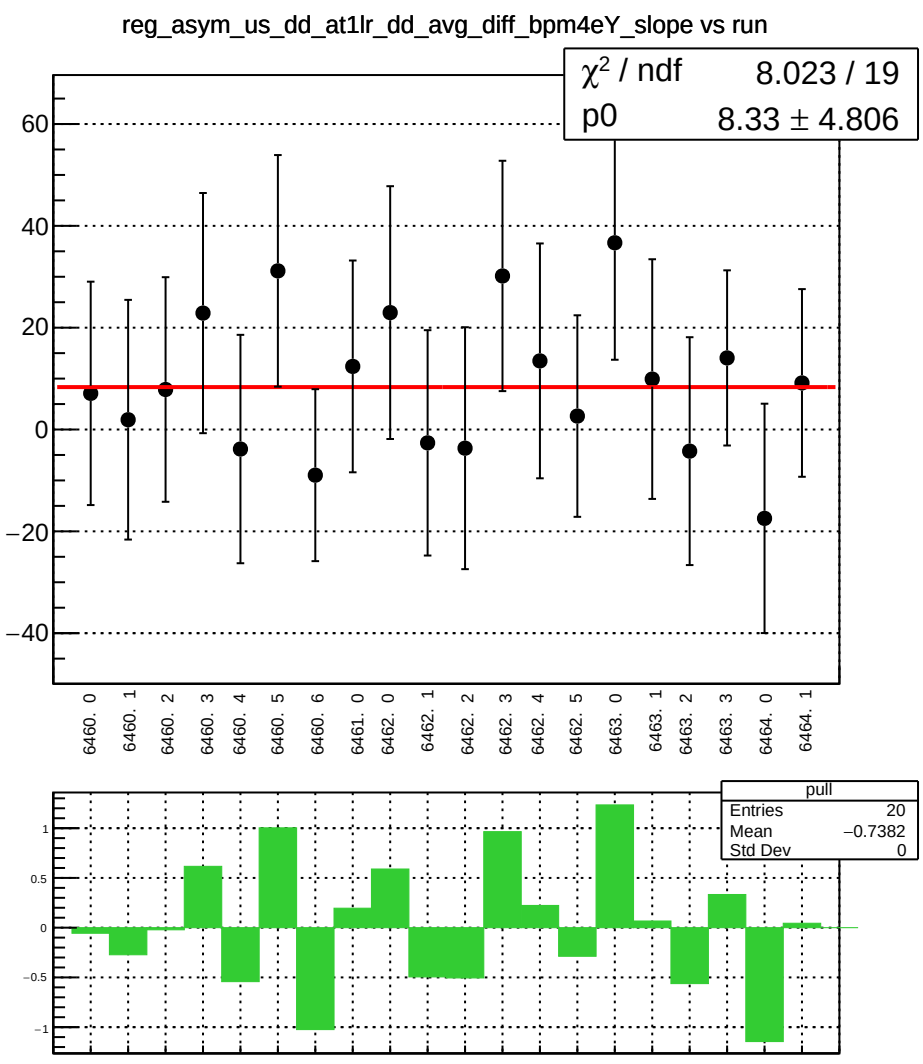

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 17.94 / 19
p0 111.3 ± 0.3087
115
114
113
112
111
110
109
108
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −112.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.03609
Std Dev 0.9463
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

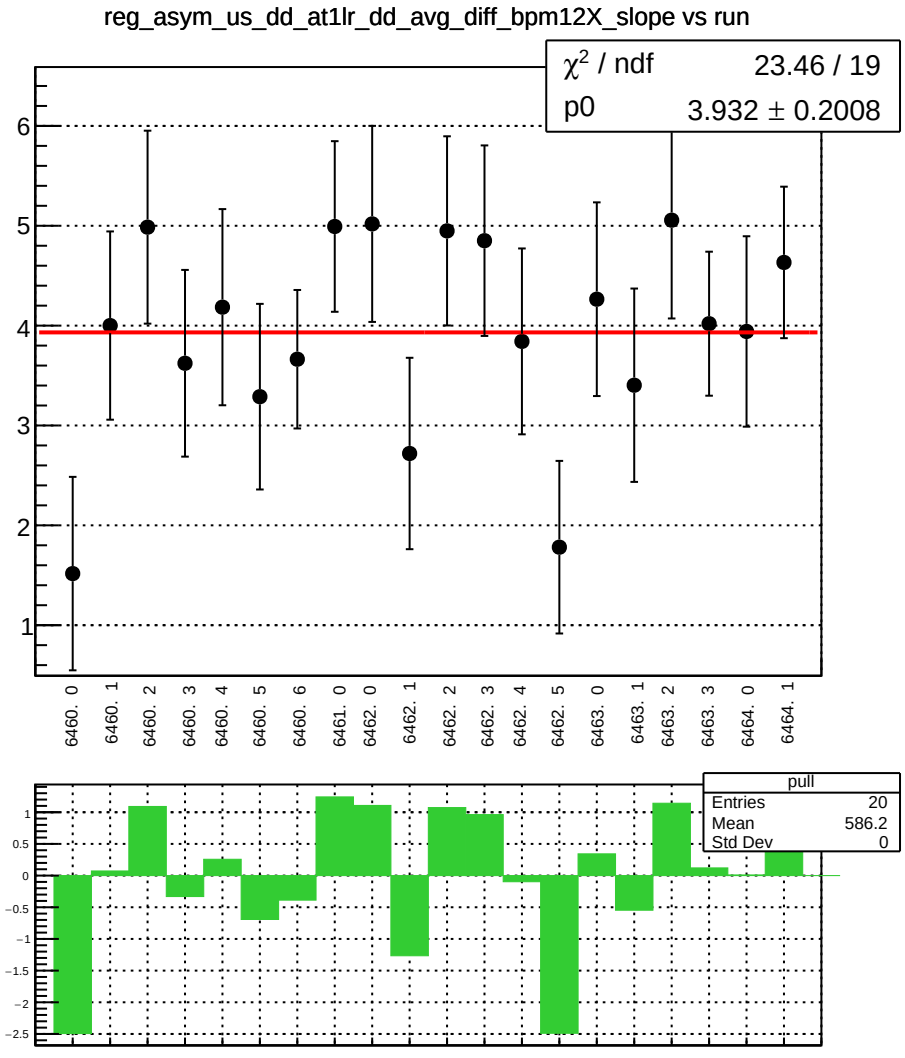

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 11.78 / 19
p0 28.36 ± 4.063
80
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −95.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.009571
Std Dev 0.7675
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

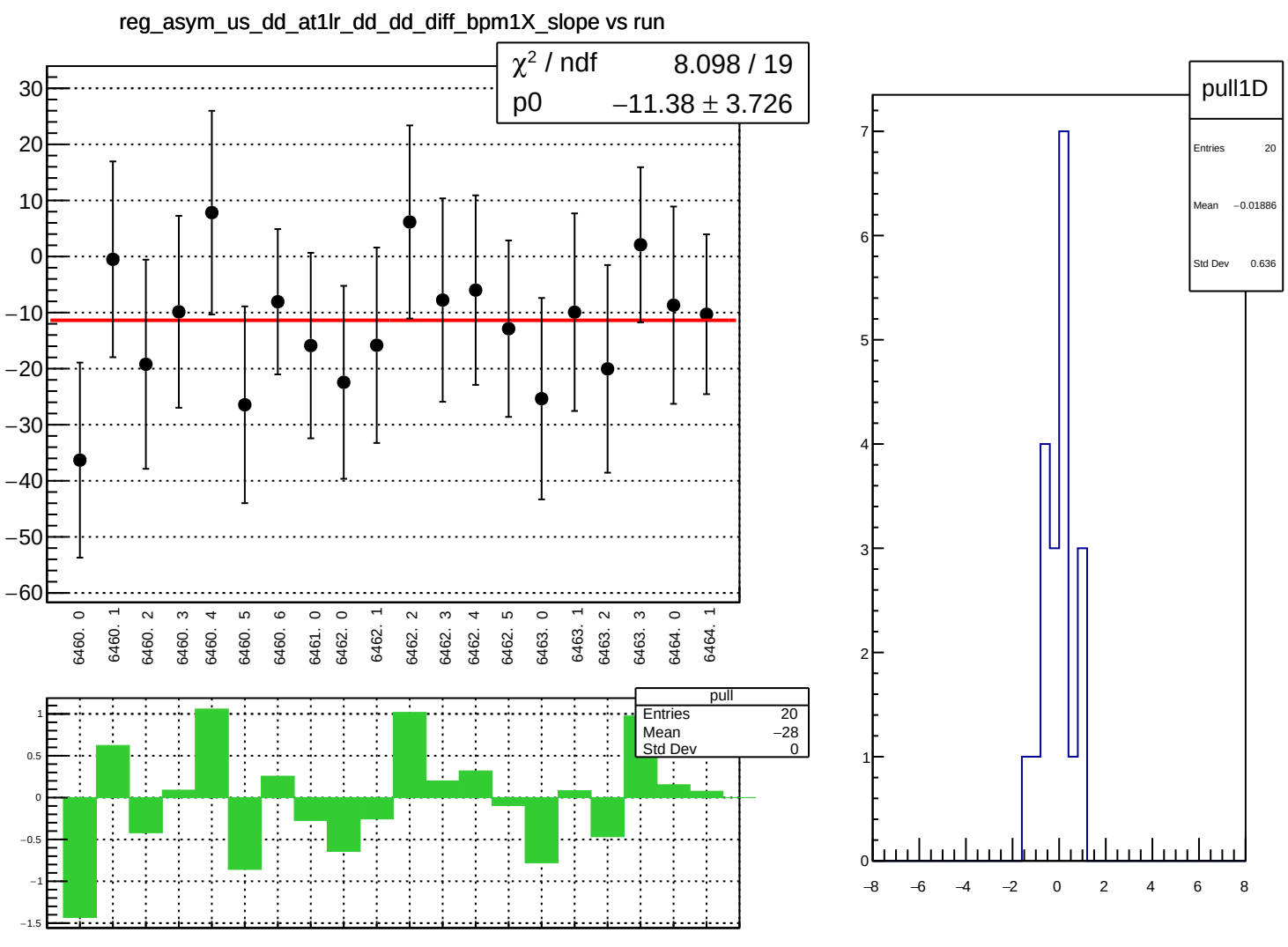

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.832 / 19
p0 −6.944 ± 4.756
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −4.163
Std Dev 0
1
0.5
0
−0.5
−1

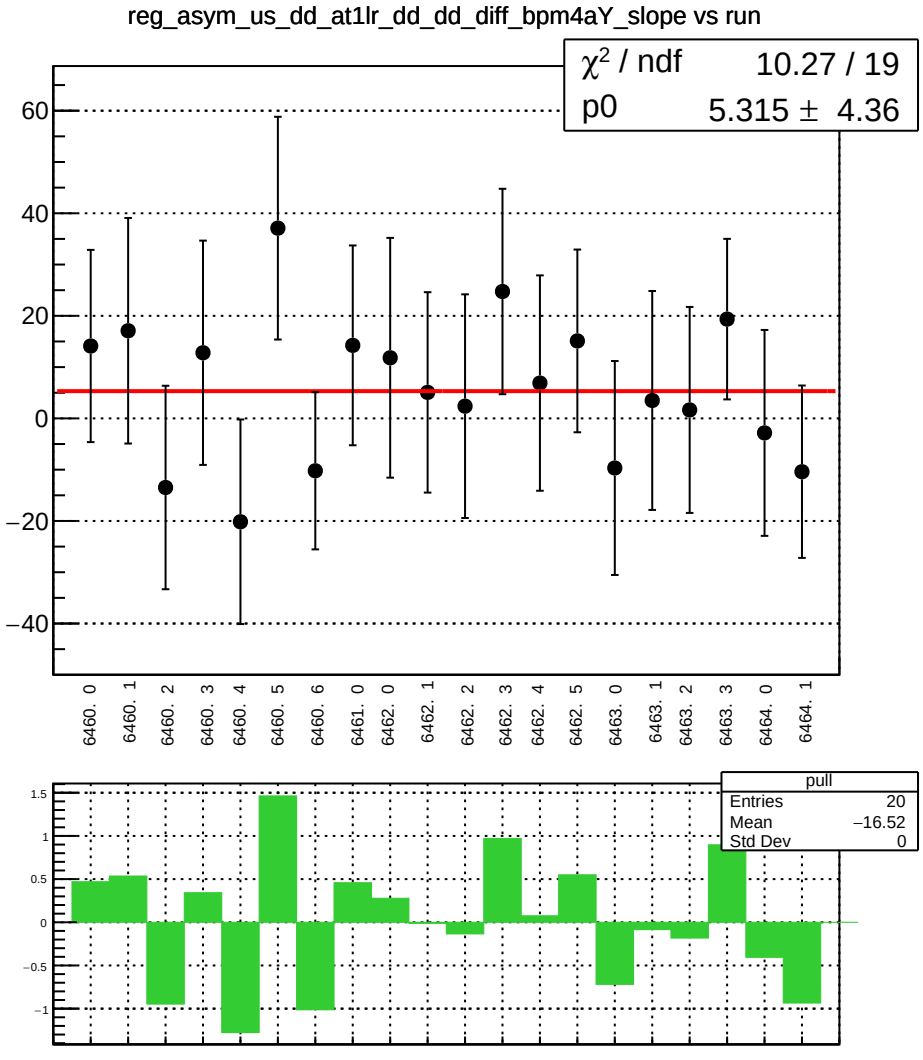

pull1D
Entries 20
Mean −0.02003
Std Dev 0.6255
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

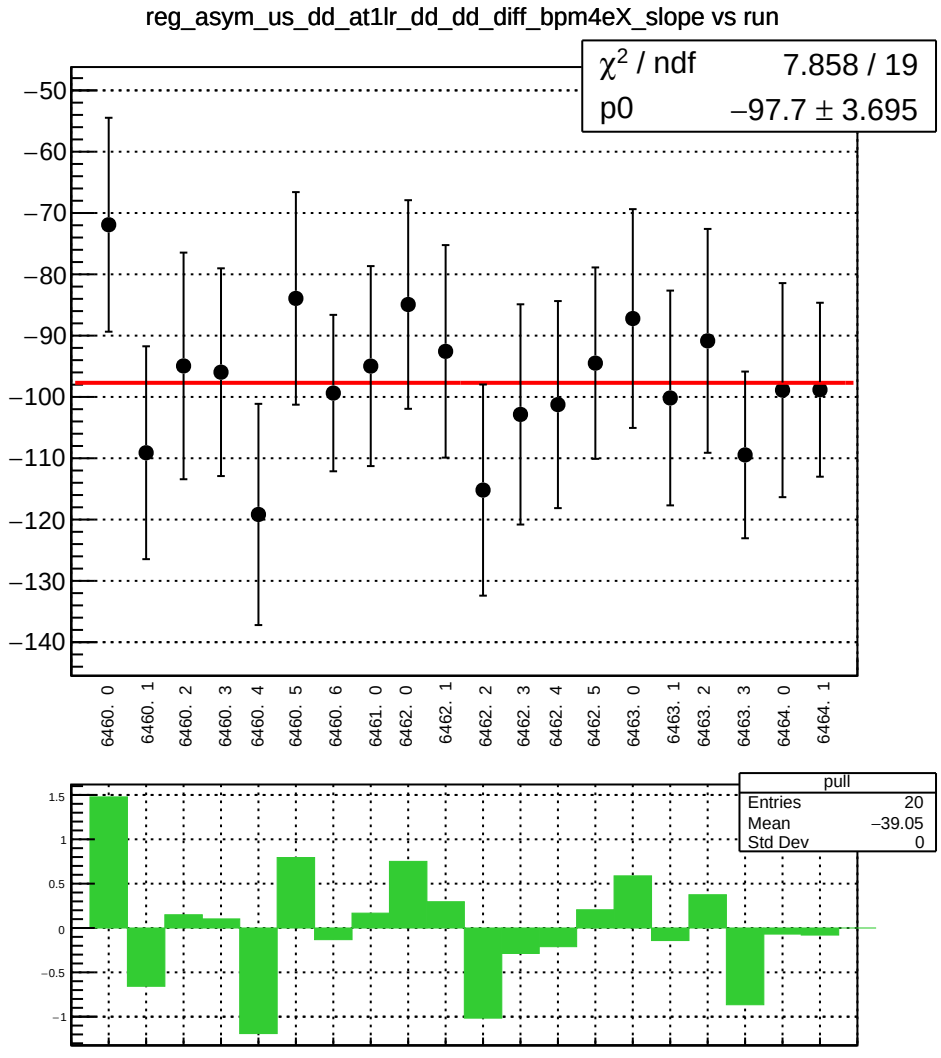

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.47 / 19
p0 −39.18 ± 4.029
0
−20
−40
−60
−80
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −77.64
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean 0.01247
Std Dev 0.7896
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

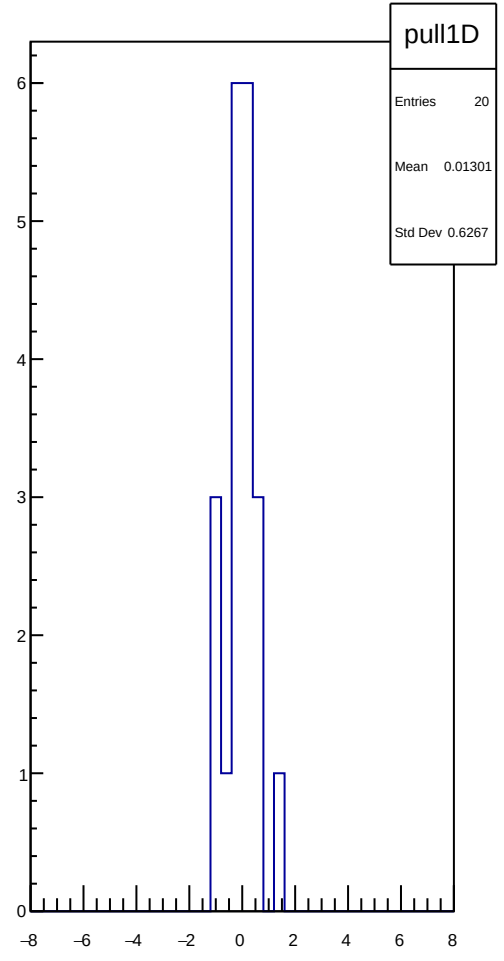

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.023 / 19
p0 8.33 ± 4.806
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −0.7382
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01801
Std Dev 0.6331
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

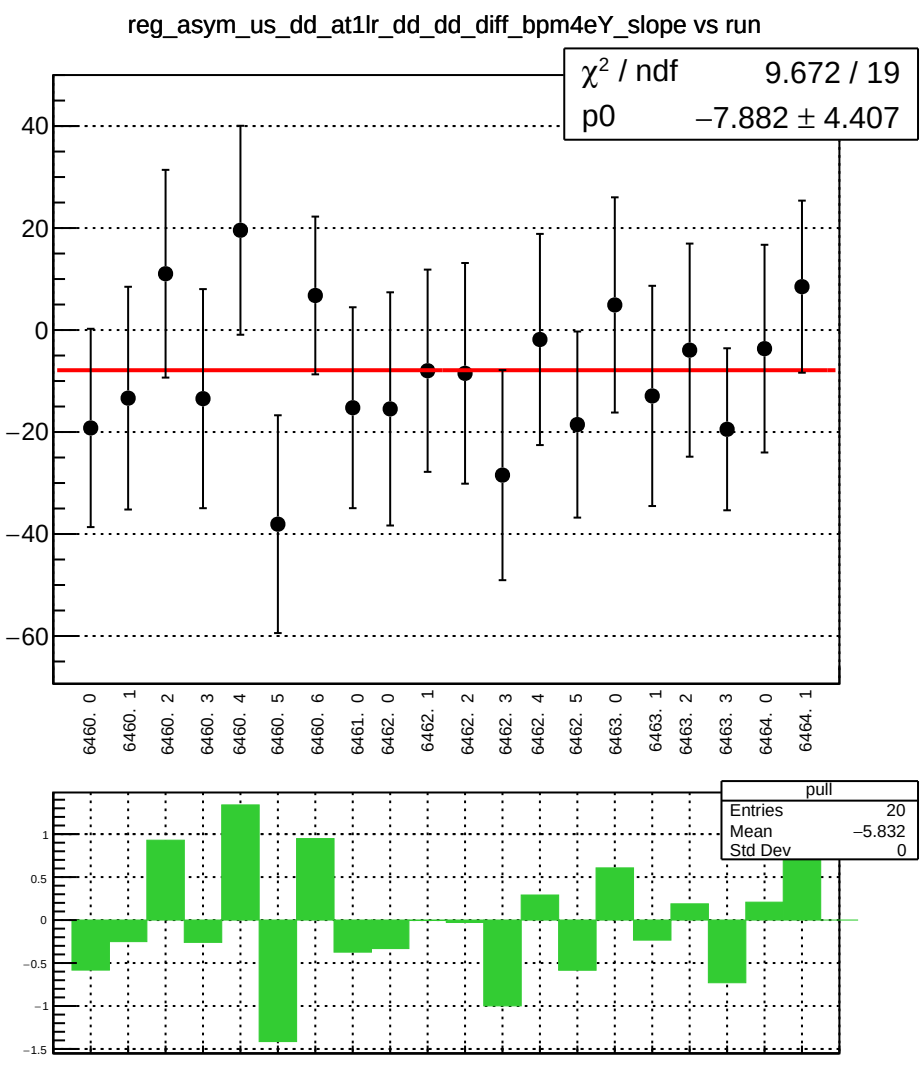

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 23.46 / 19
p0 3.932 ± 0.2008
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 586.2
Std Dev 0
pull1D
Entries 20
Mean 0.002145
Std Dev 1.083

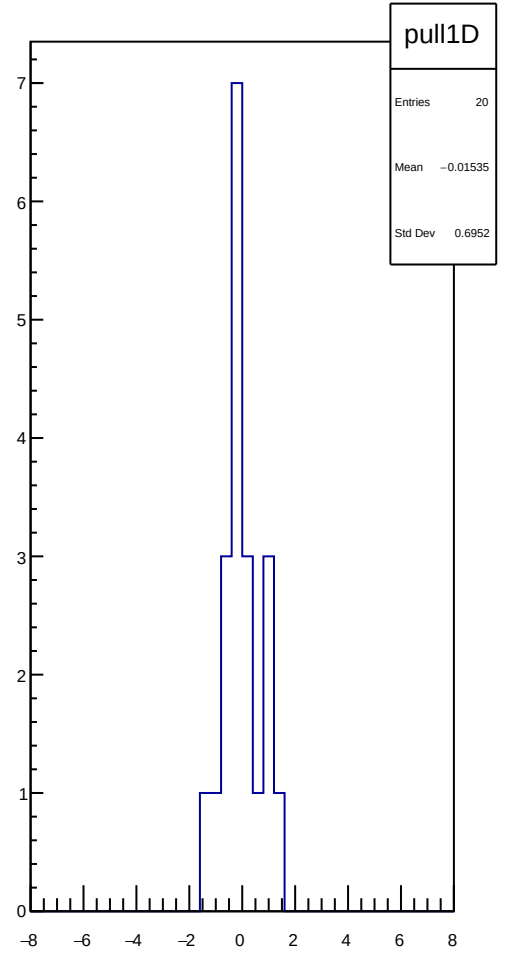

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 8.098 / 19
p0 −11.38 ± 3.726
30
20
10
0
−10
−20
−30
−40
−50
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01886
Std Dev 0.636
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

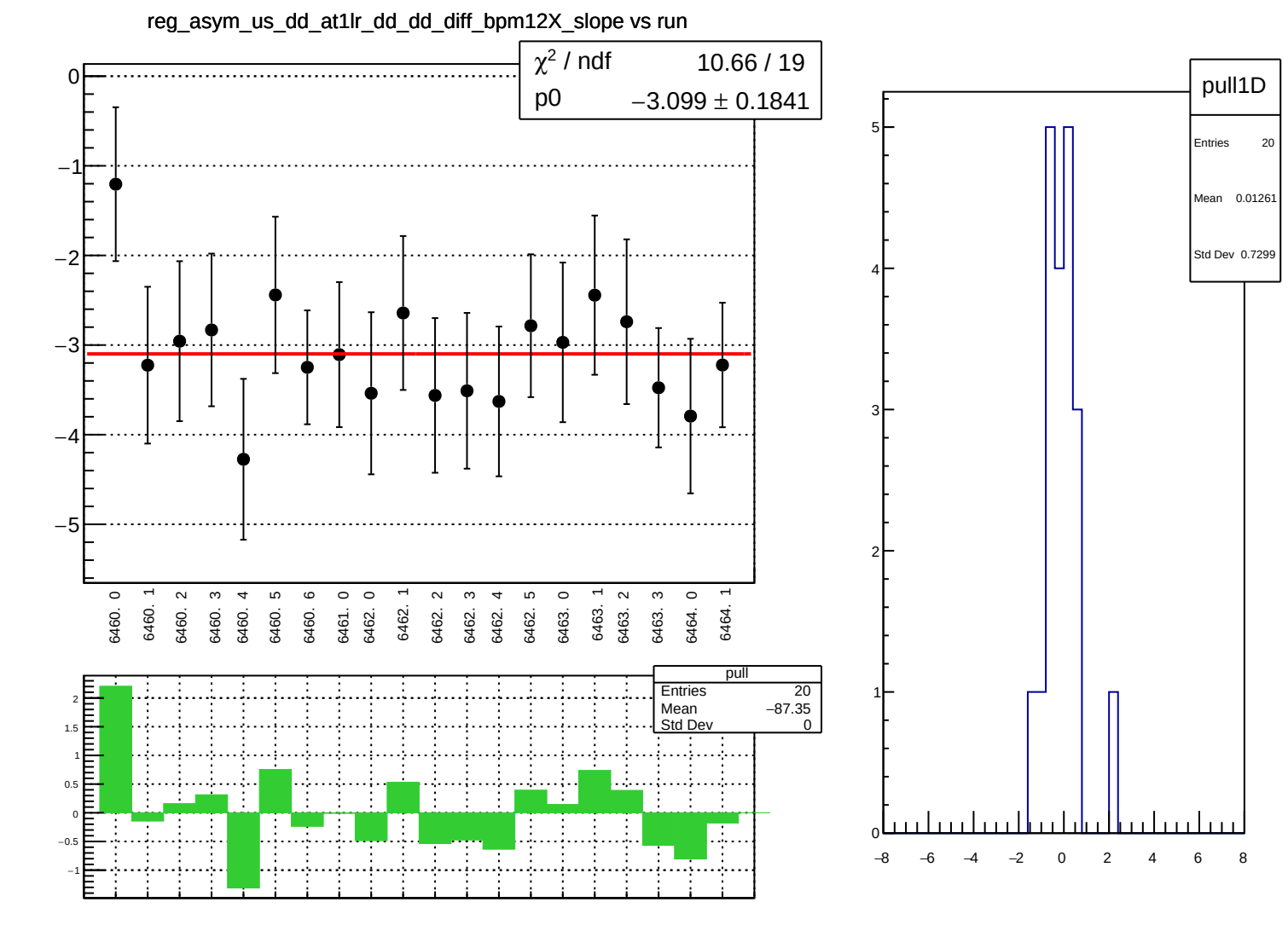

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.27 / 19
p0 5.315 ± 4.36
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −16.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.0164
Std Dev 0.7166
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

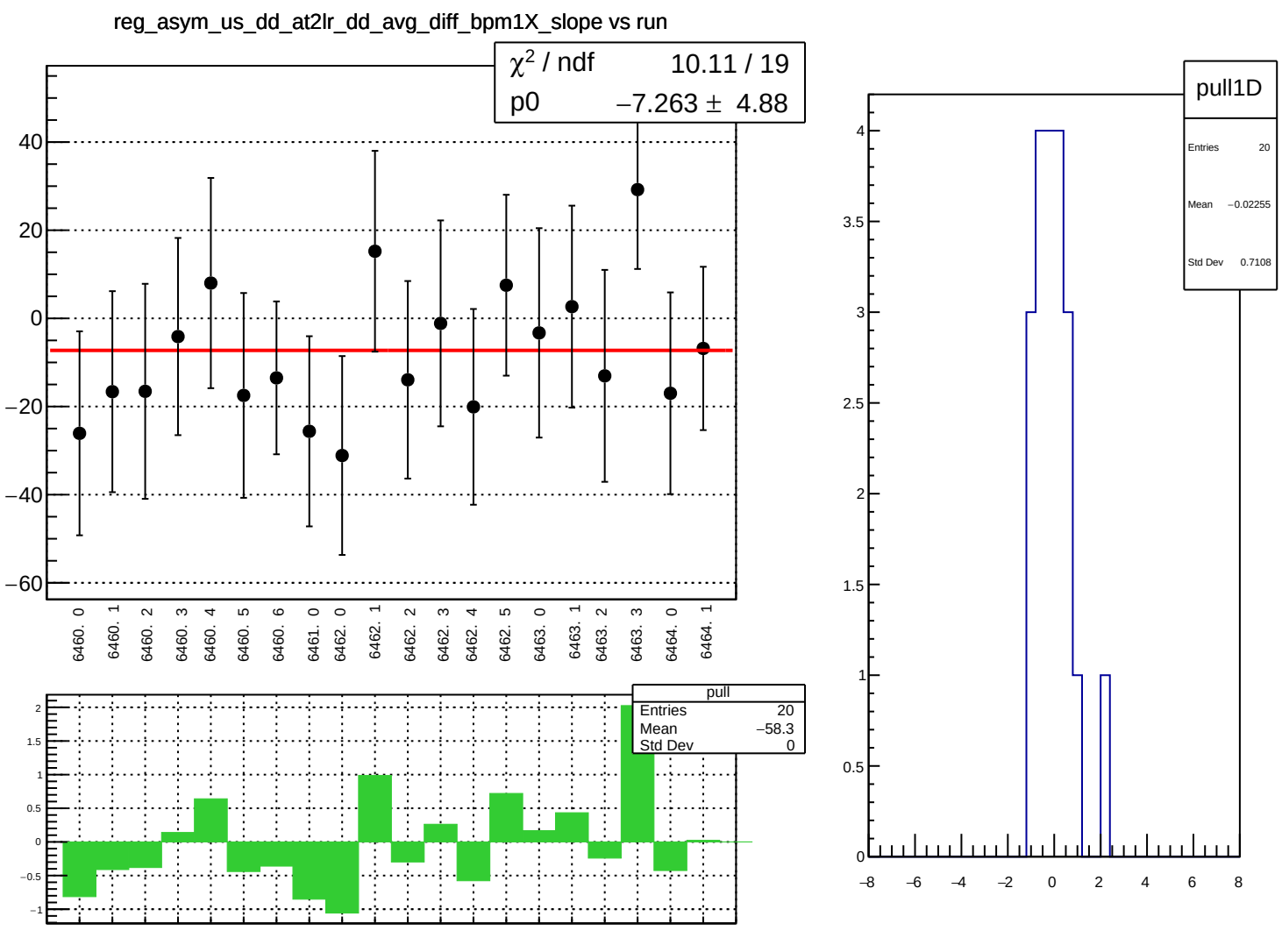

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.858 / 19
p0 −97.7 ± 3.695
−50
−60
−70
−80
−90
−100
−110
−120
−130
−140
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −39.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1

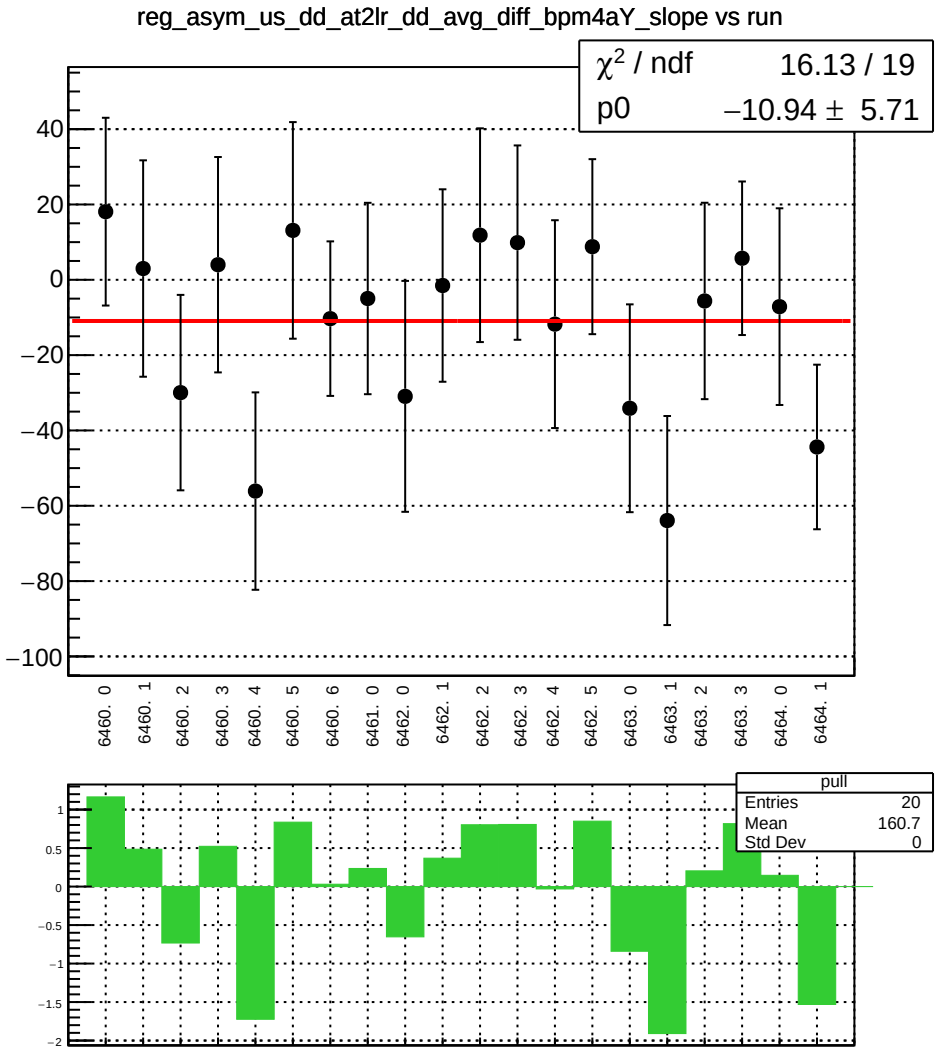

pull1D
Entries 20
Mean 0.01301
Std Dev 0.6267
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

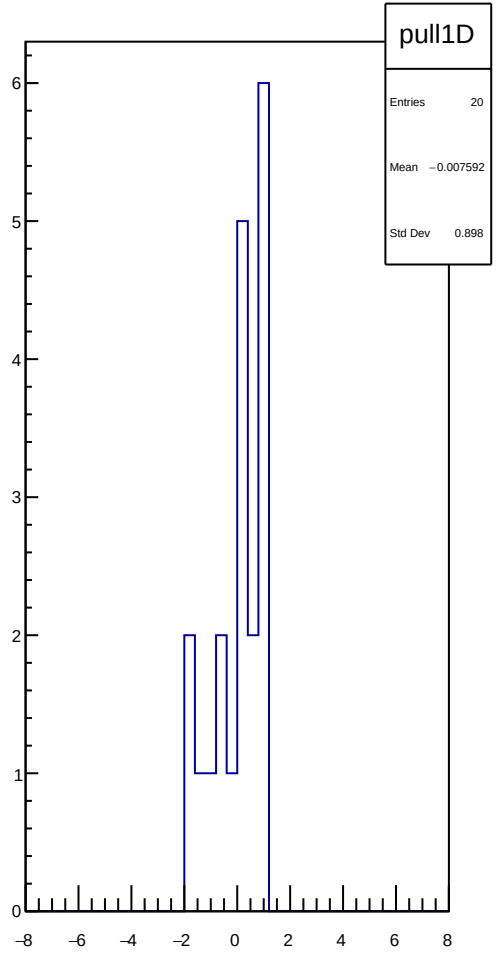

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.672 / 19
p0 −7.882 ± 4.407
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −5.832
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

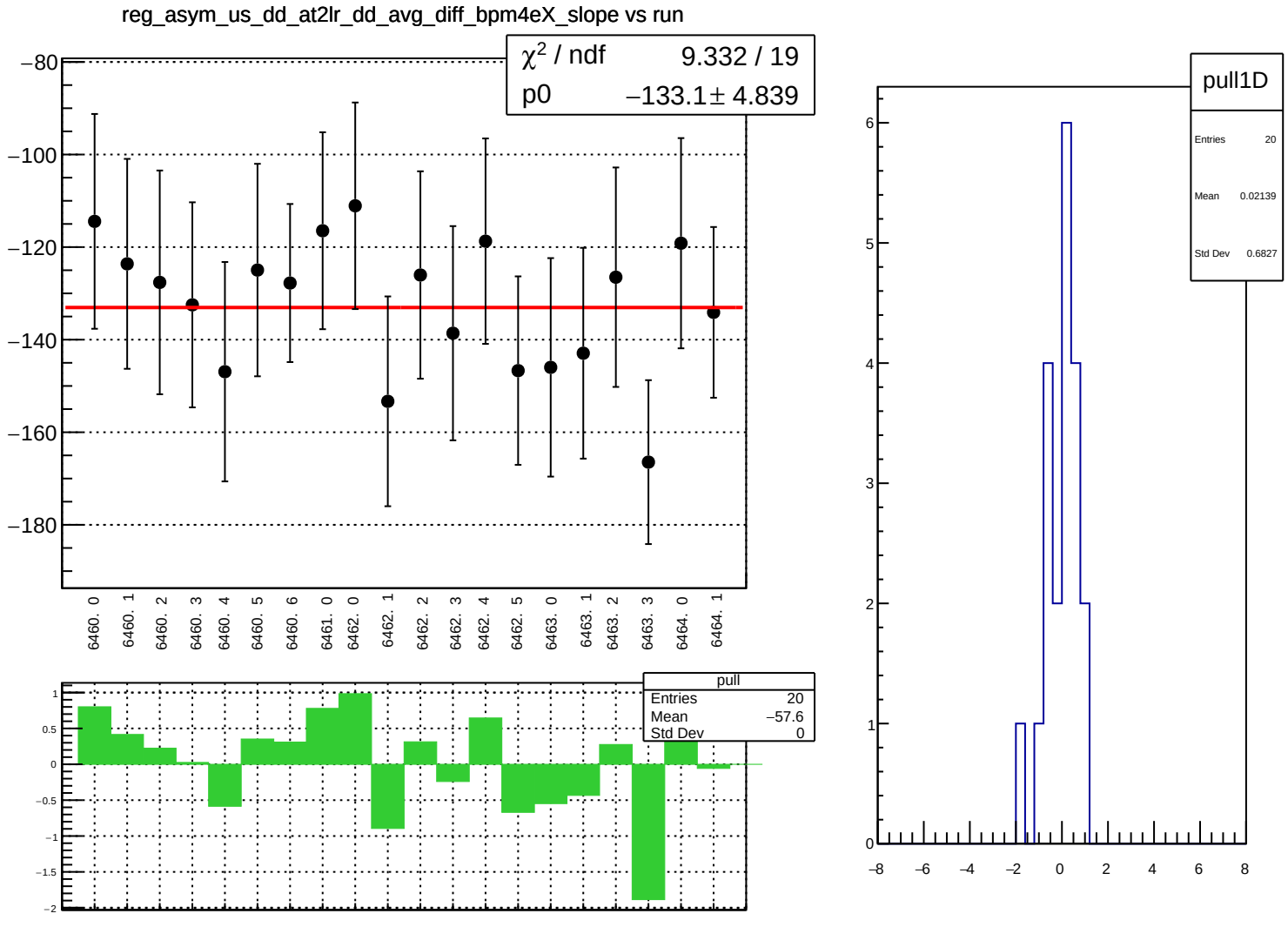

pull1D
Entries 20
Mean −0.01535
Std Dev 0.6952
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

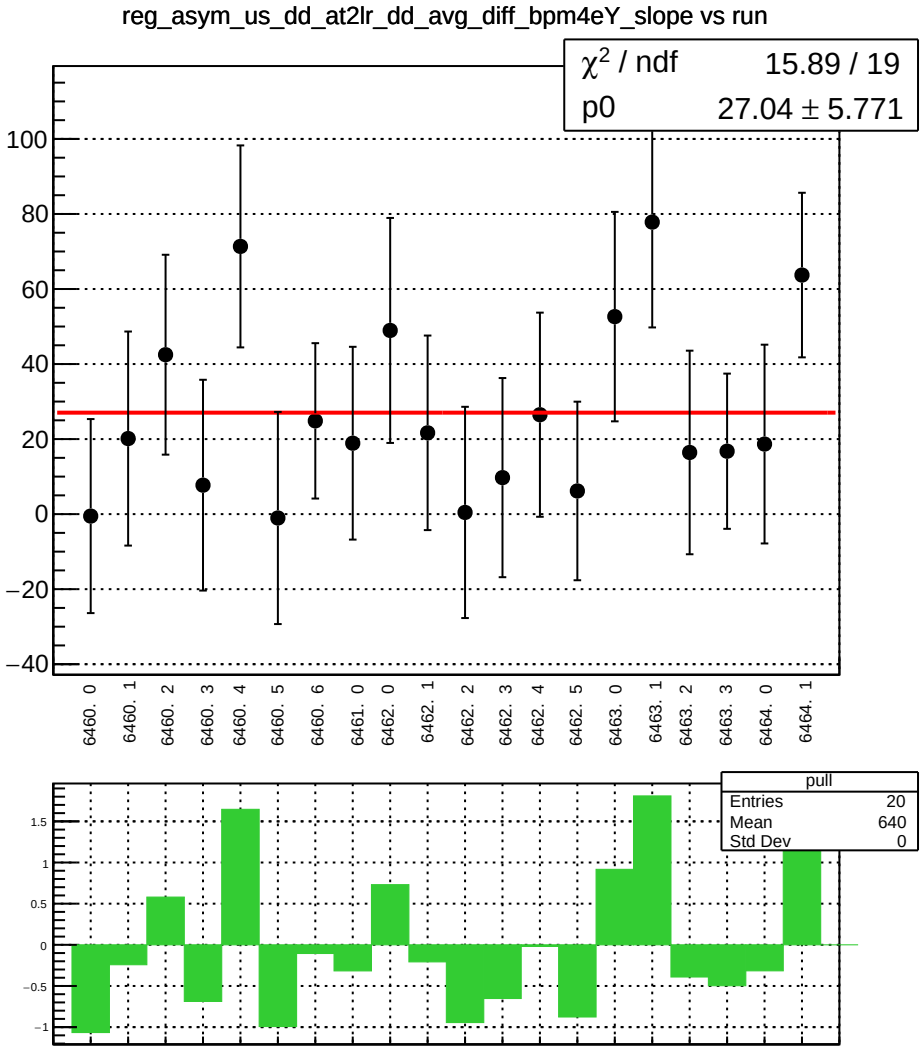

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 10.66 / 19
p0 −3.099 ± 0.1841
0
−1
−2
−3
−4
−5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −87.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01261
Std Dev 0.7299
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

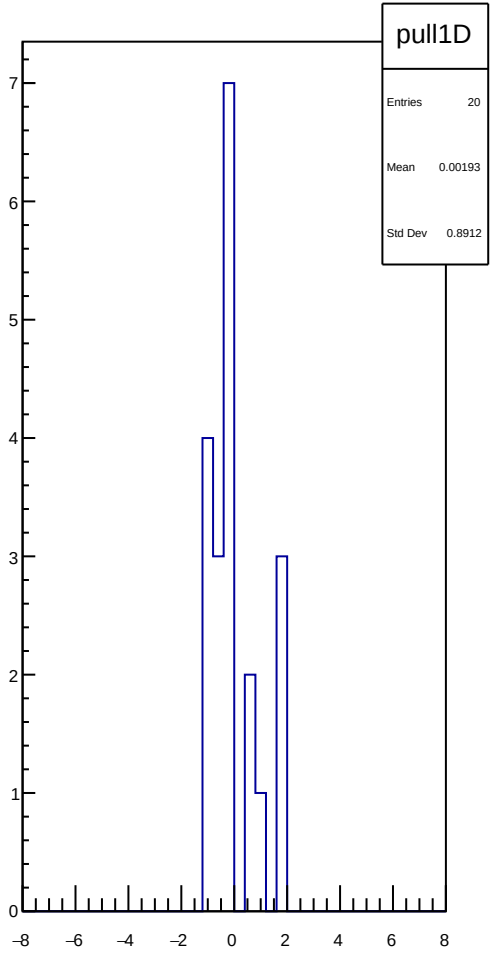

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 10.11 / 19
p0 −7.263 ± 4.88
40
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −58.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.02255
Std Dev 0.7108
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

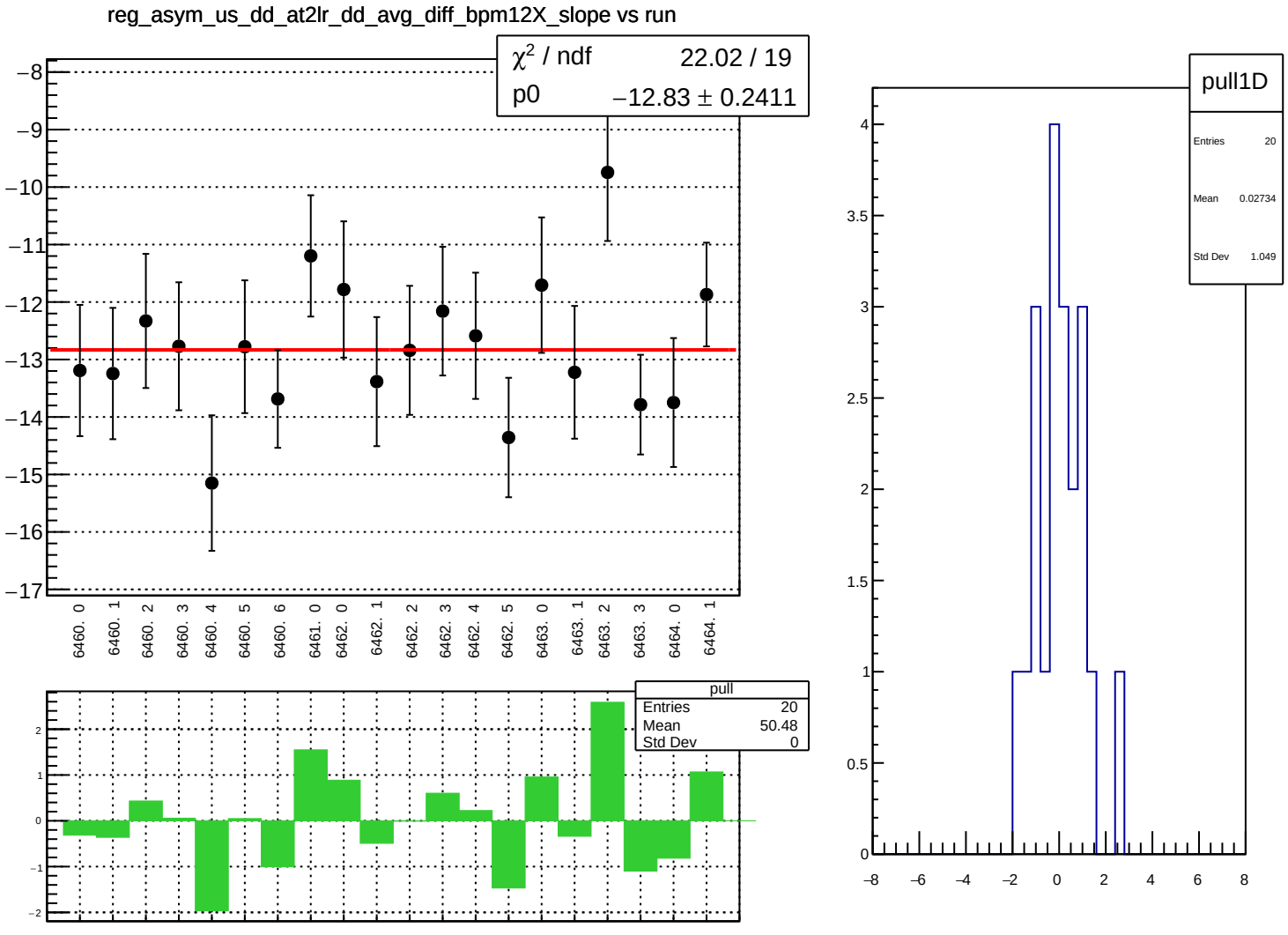

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.13 / 19
p0 −10.94 ± 5.71
40
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 160.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

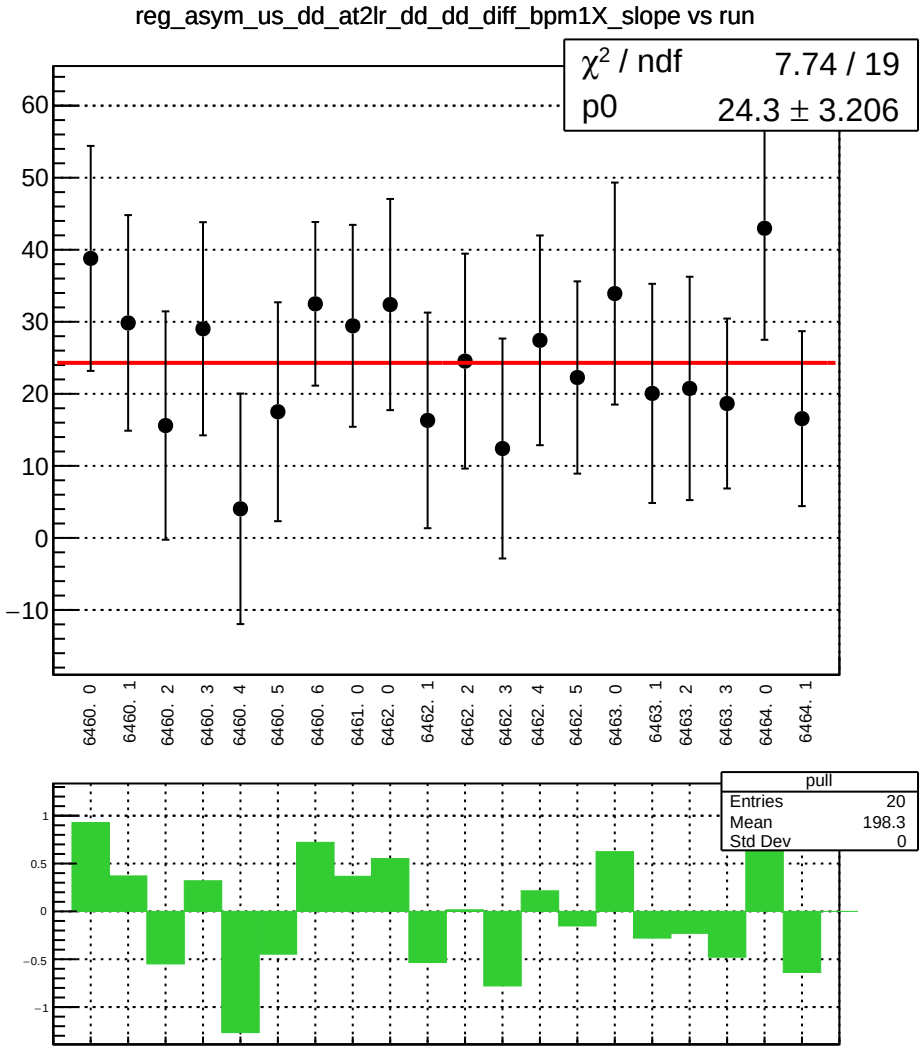

pull1D
Entries 20
Mean −0.007592
Std Dev 0.898
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

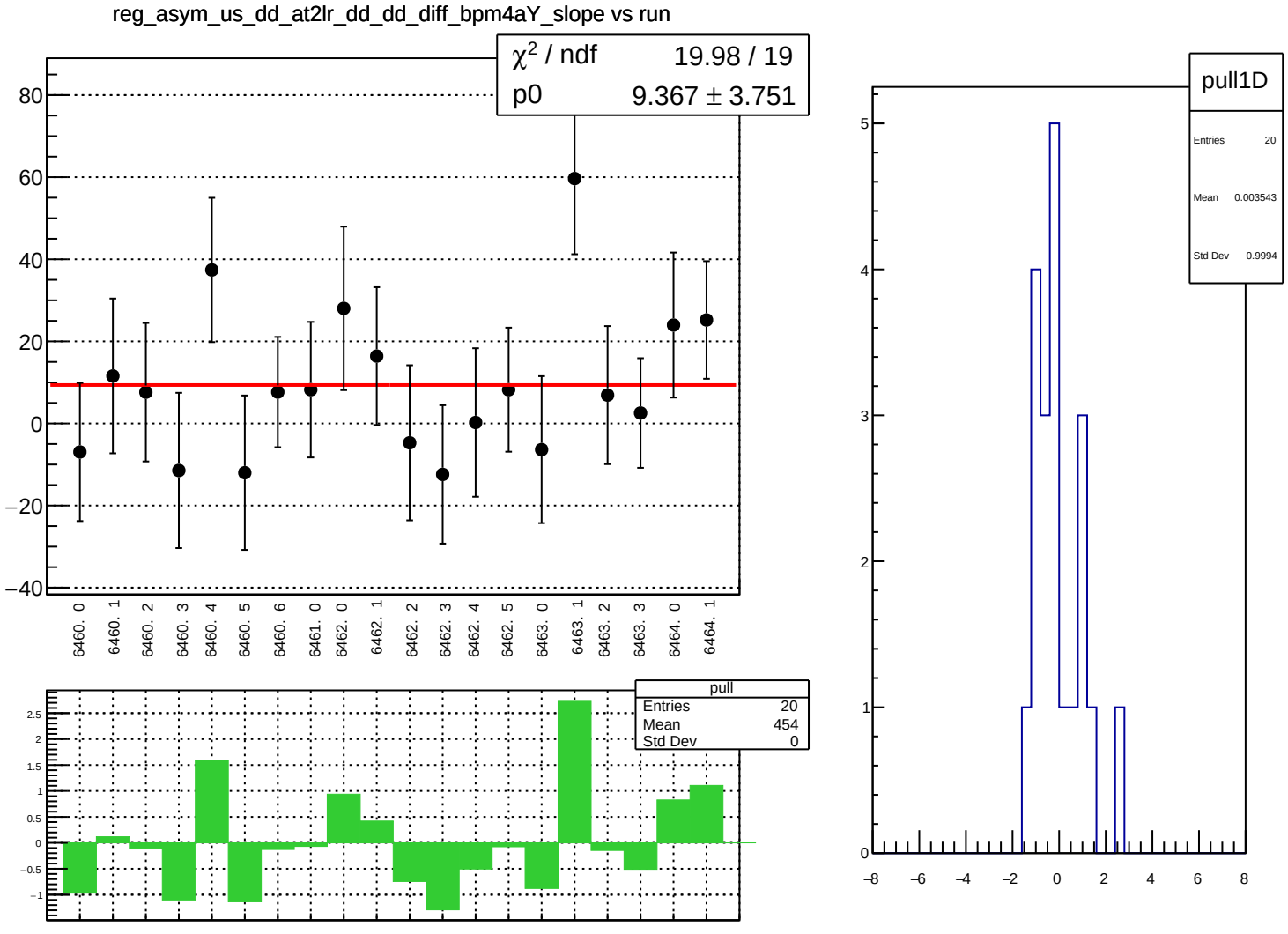

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.332 / 19
p0 −133.1± 4.839
−80
−100
−120
−140
−160
−180
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −57.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.02139
Std Dev 0.6827
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

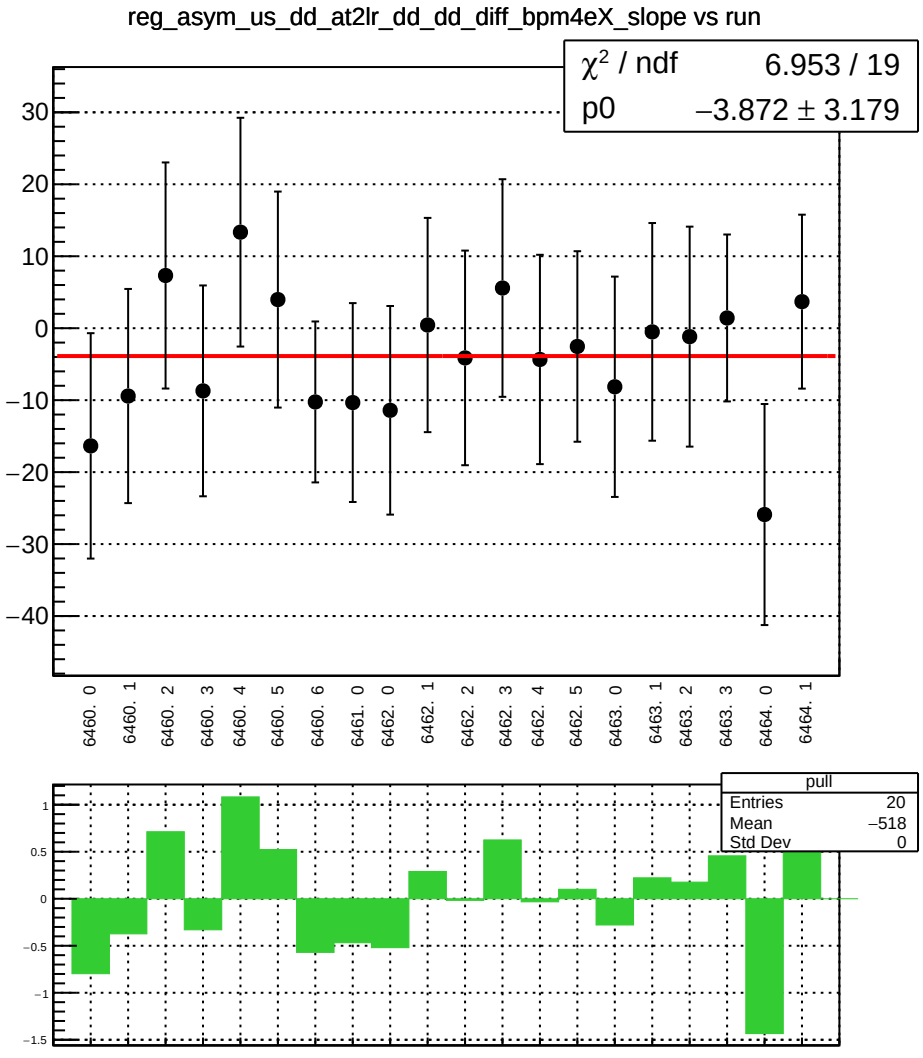

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.89 / 19
p0 27.04 ± 5.771
100
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 640
Std Dev 0
1.5
1
0.5
0
−0.5
−1

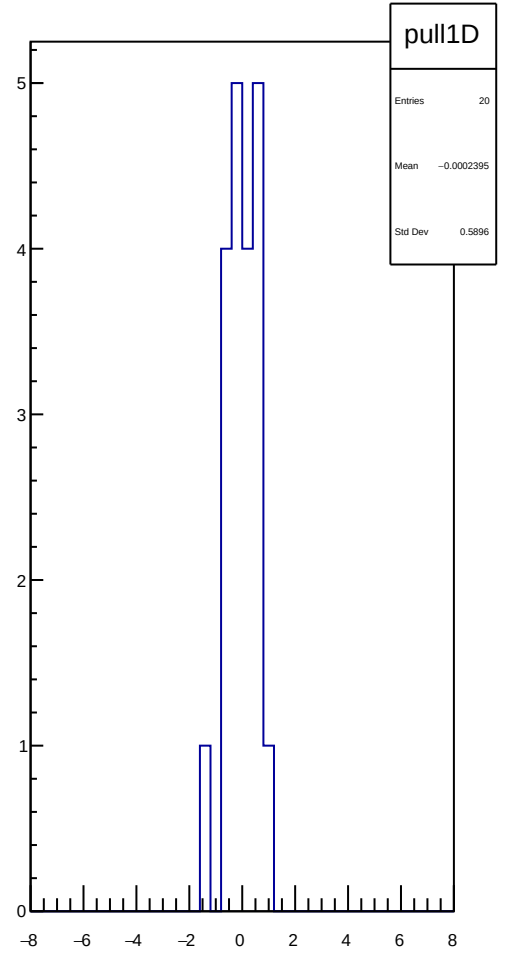

pull1D
Entries 20
Mean 0.00193
Std Dev 0.8912
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

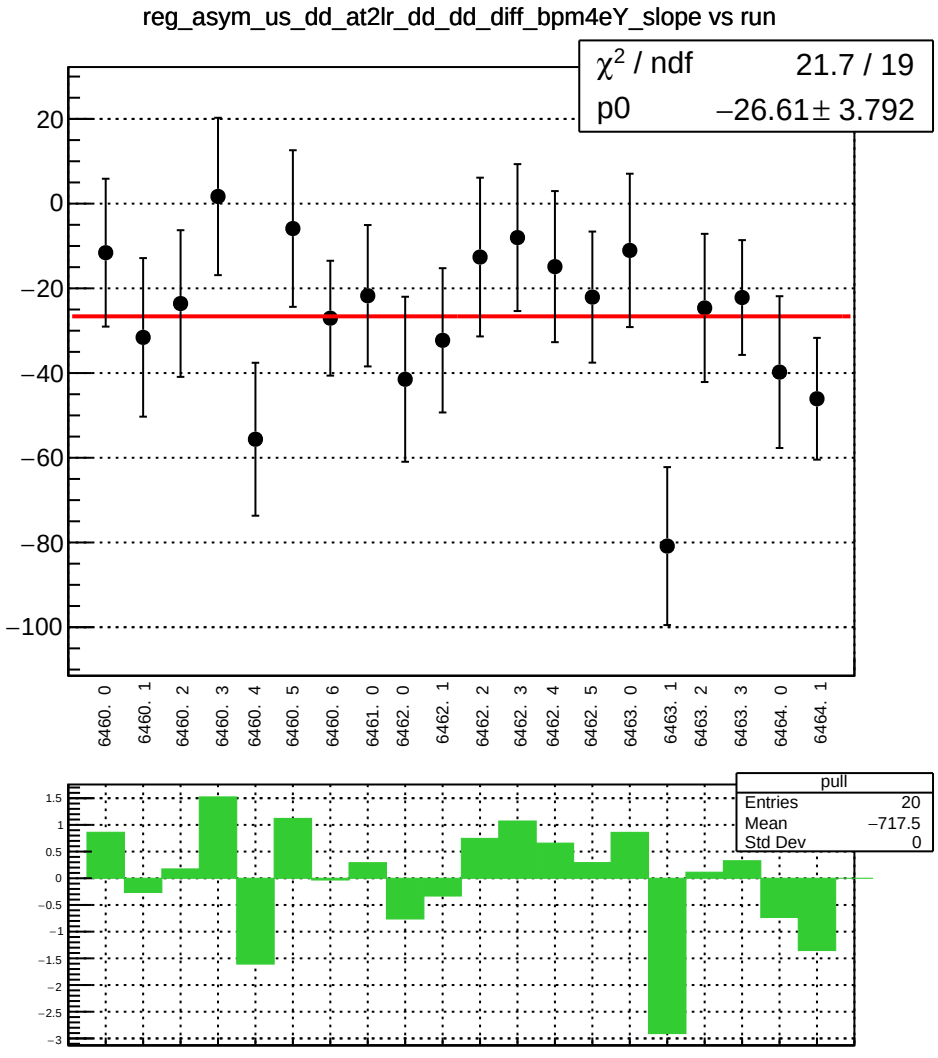

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 22.02 / 19
p0 −12.83 ± 0.2411
−8
−9
−10
−11
−12
−13
−14
−15
−16
−17
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 50.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.02734
Std Dev 1.049
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

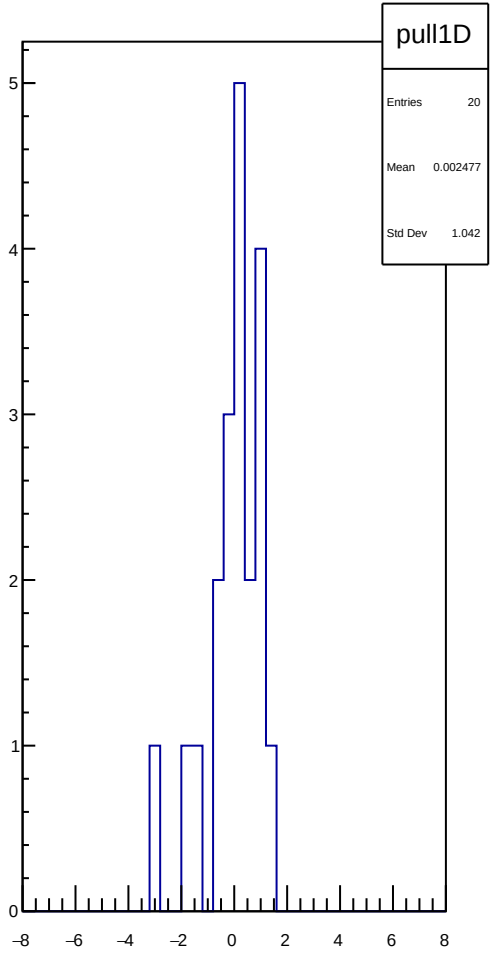

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 7.74 / 19
p0 24.3 ± 3.206
60
50
40
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 198.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.001518
Std Dev 0.6221
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

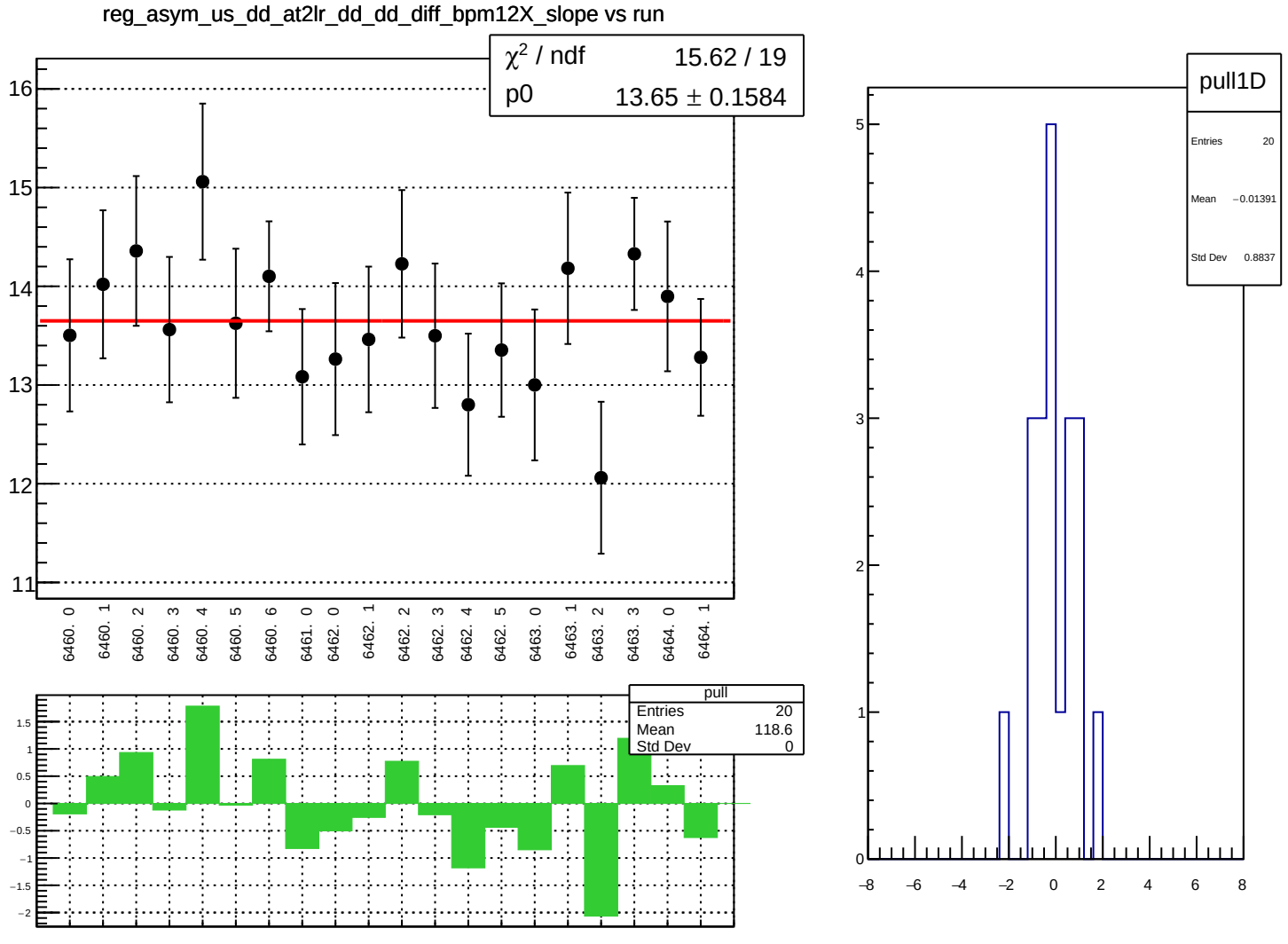

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.98 / 19
p0 9.367 ± 3.751
80
60
40
20
0
−20
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 454
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.003543
Std Dev 0.9994
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

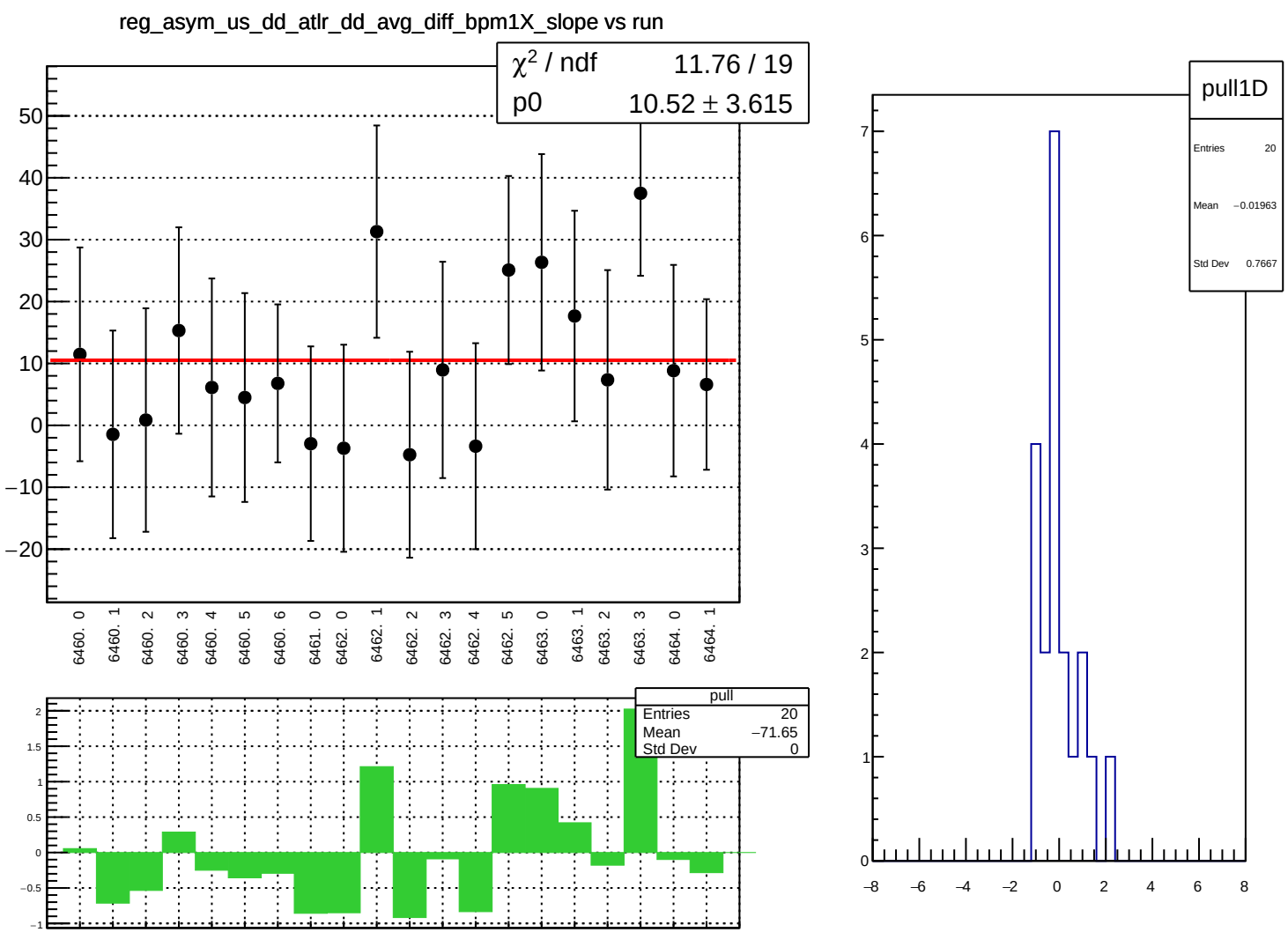

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.953 / 19
p0 −3.872 ± 3.179
30
20
10
0
−10
−20
−30
−40
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −518
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

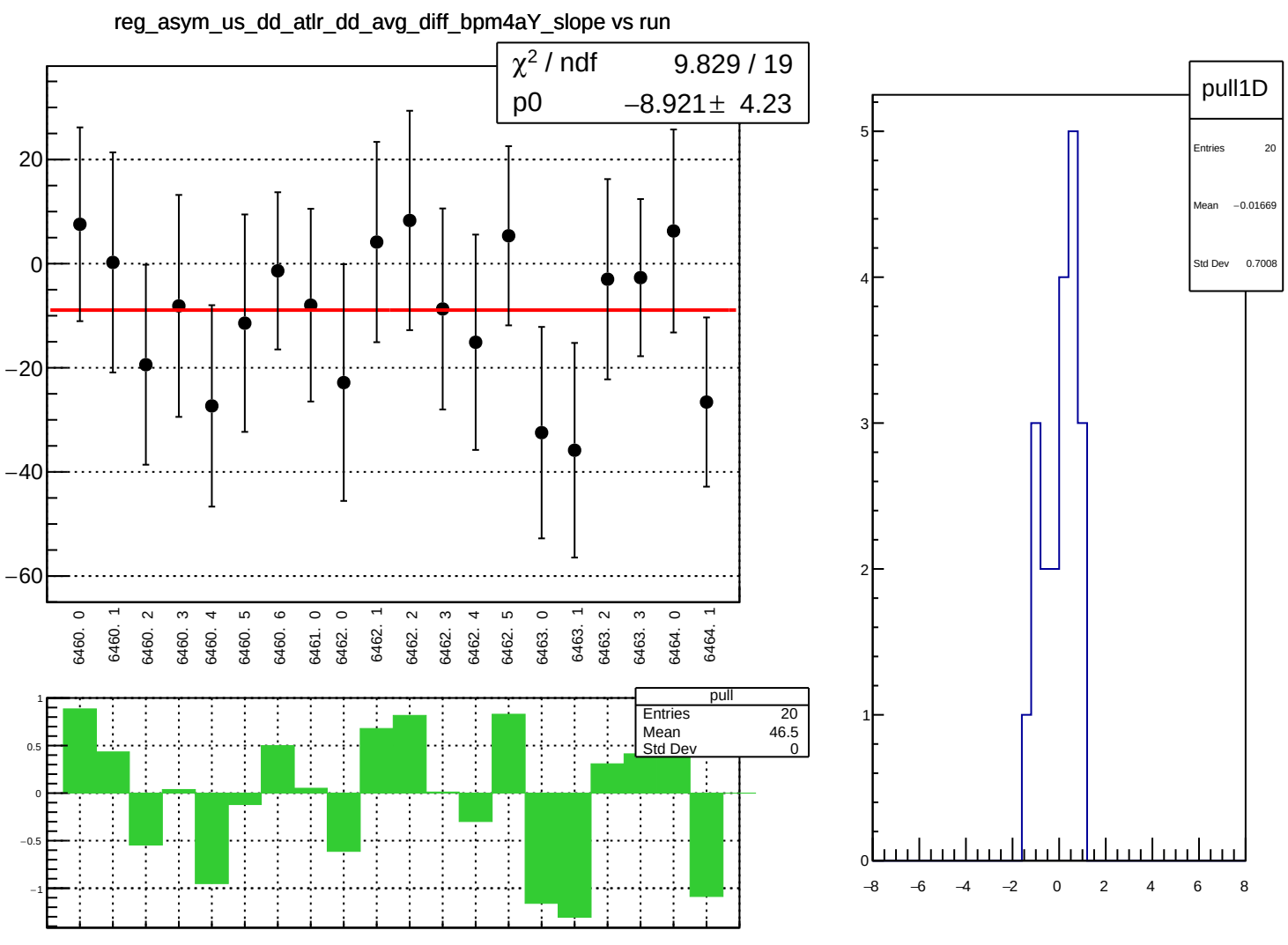

pull1D
Entries 20
Mean −0.0002395
Std Dev 0.5896
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

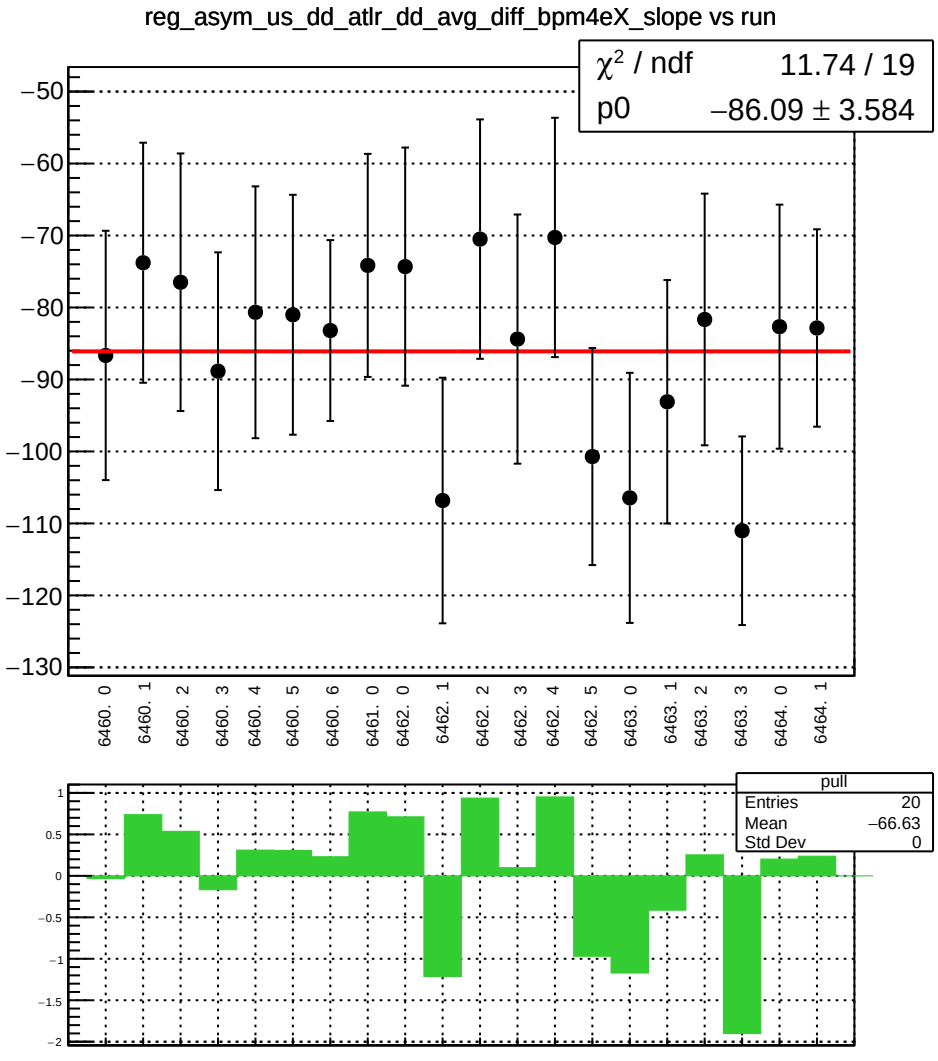

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.7 / 19
p0 −26.61± 3.792
20
0
−20
−40
−60
−80
−100
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −717.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

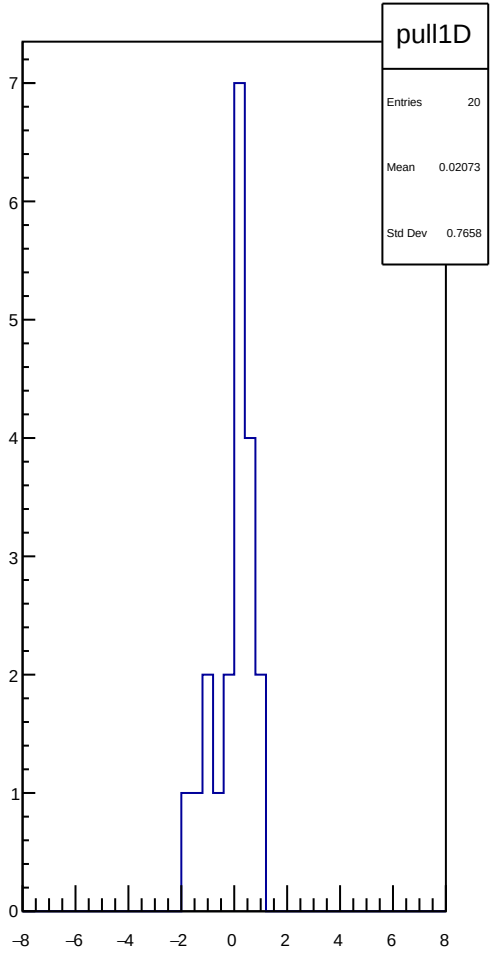

pull1D
Entries 20
Mean 0.002477
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

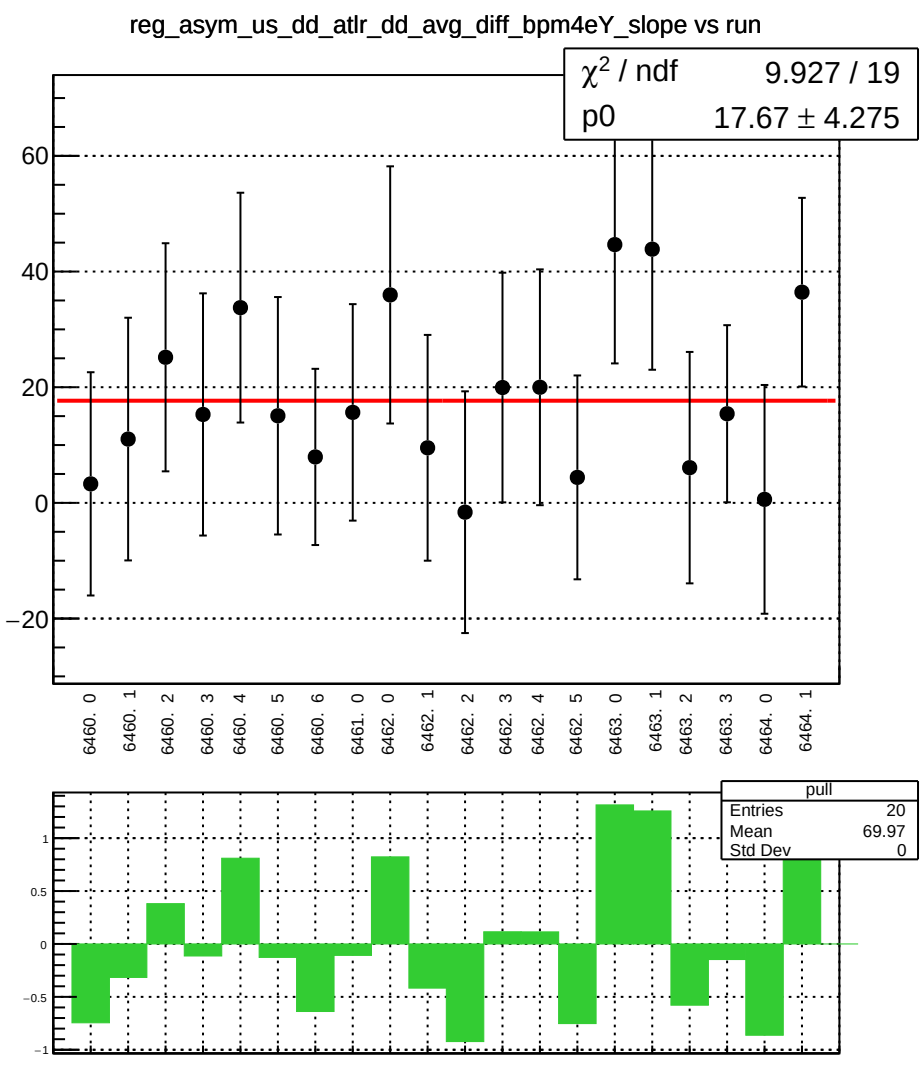

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 15.62 / 19
p0 13.65 ± 0.1584
16
15
14
13
12
11
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 118.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.01391
Std Dev 0.8837
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

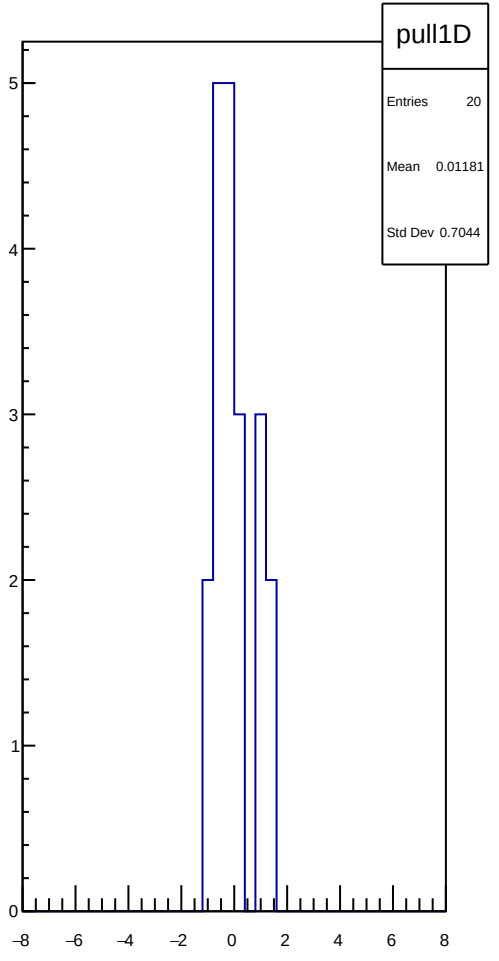

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 11.76 / 19
p0 10.52 ± 3.615
50
40
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −71.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01963
Std Dev 0.7667
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

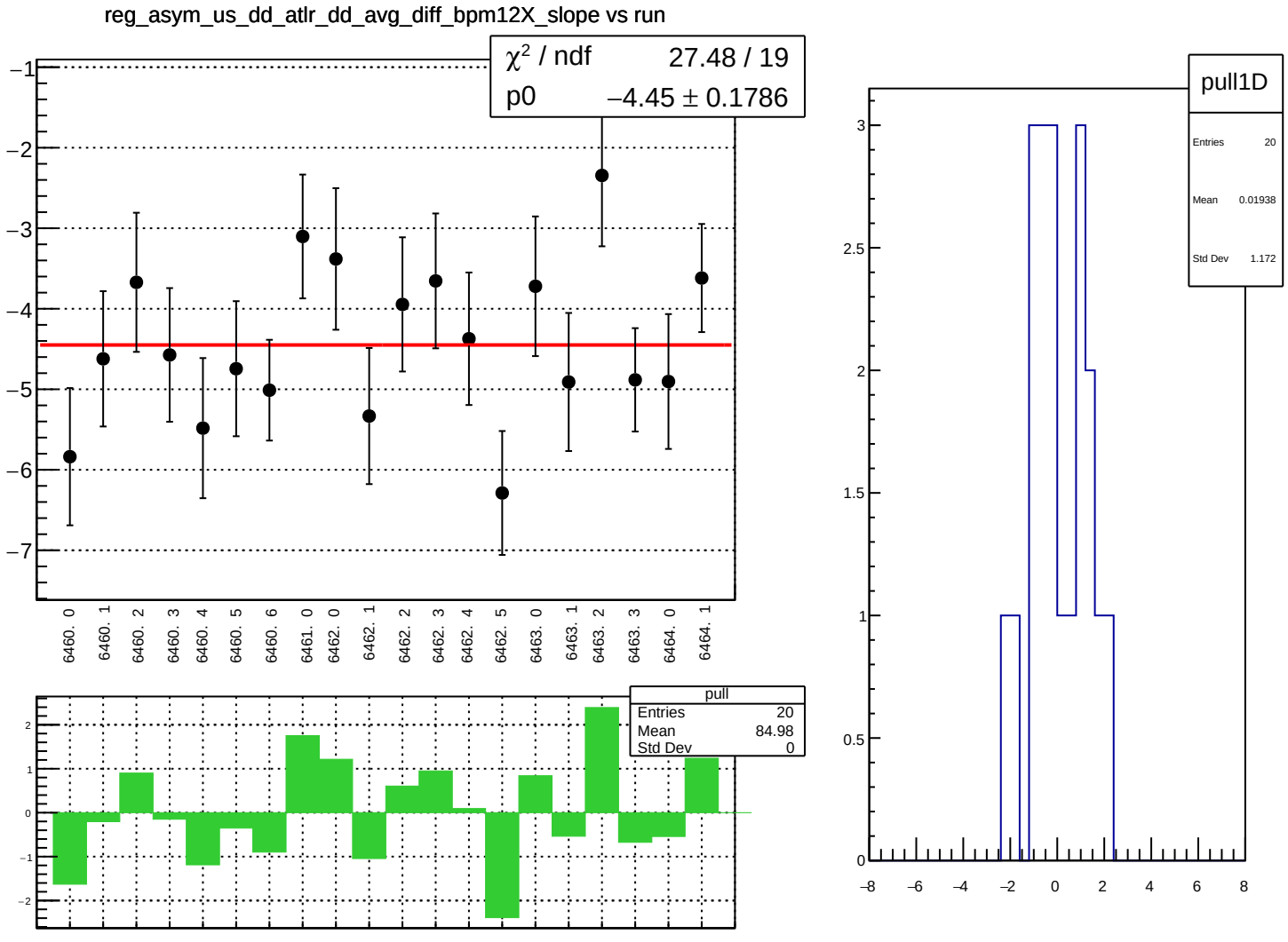

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.829 / 19
p0 −8.921± 4.23
20
0
−20
−40
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 46.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01669
Std Dev 0.7008
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

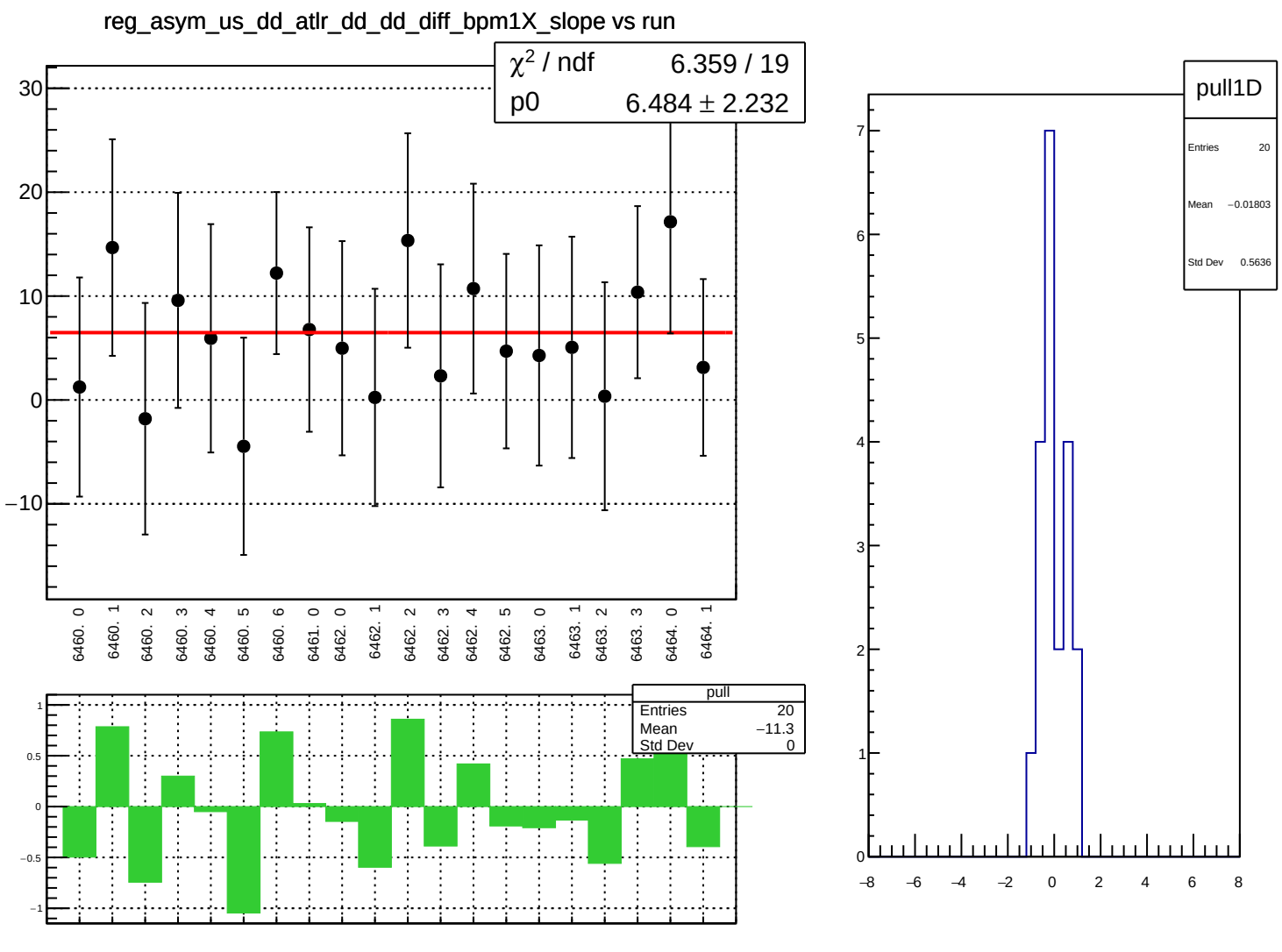

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.74 / 19
p0 −86.09 ± 3.584
−50
−60
−70
−80
−90
−100
−110
−120
−130
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −66.63
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

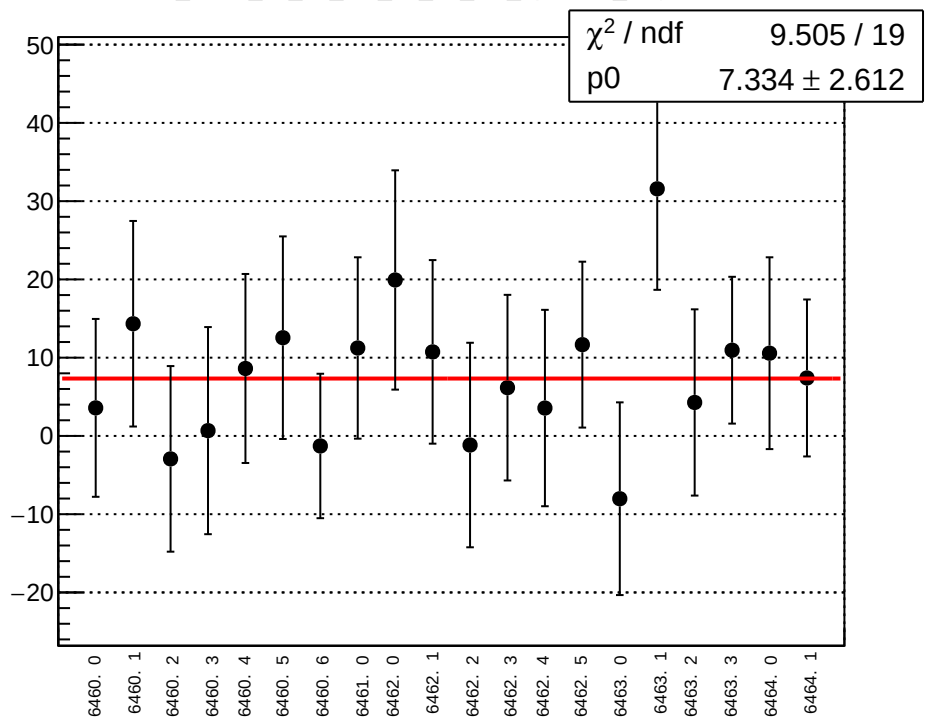

pull1D
Entries 20
Mean 0.02073
Std Dev 0.7658
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

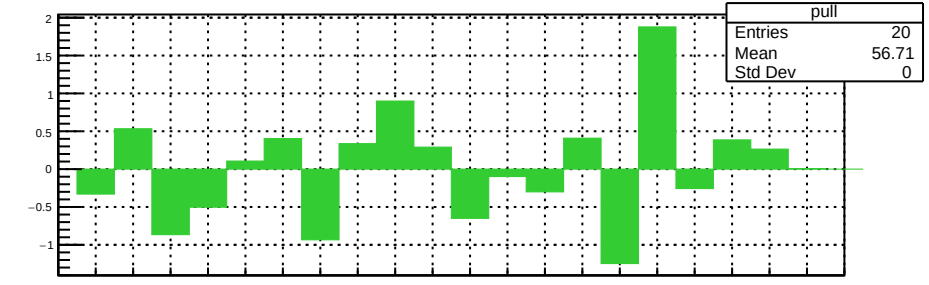

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.927 / 19
p0 17.67 ± 4.275
60
40
20
0
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 69.97
Std Dev 0
1
0.5
0
−0.5
−1

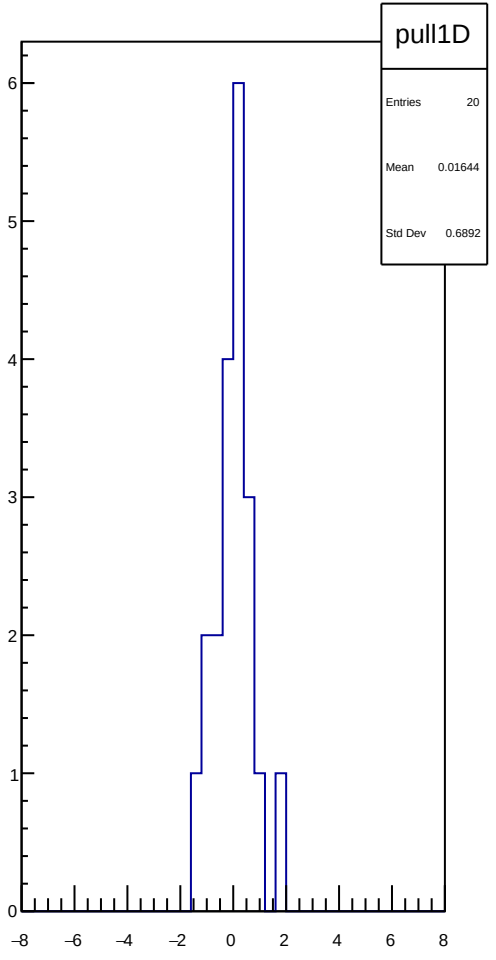

pull1D
Entries 20
Mean 0.01181
Std Dev 0.7044
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

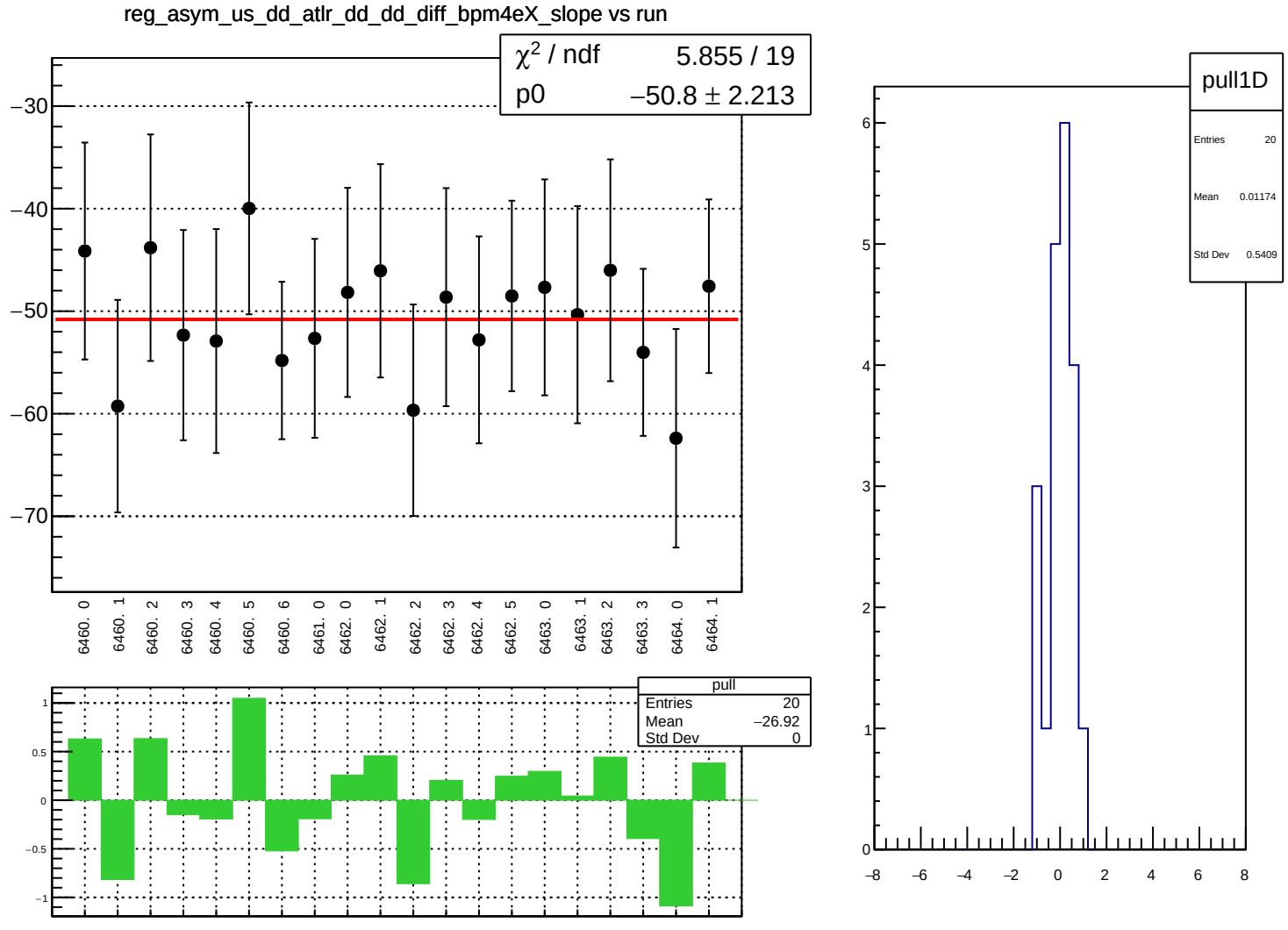

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.48 / 19
p0 −4.45 ± 0.1786
−1
−2
−3
−4
−5
−6
−7
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 84.98
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.01938
Std Dev 1.172
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

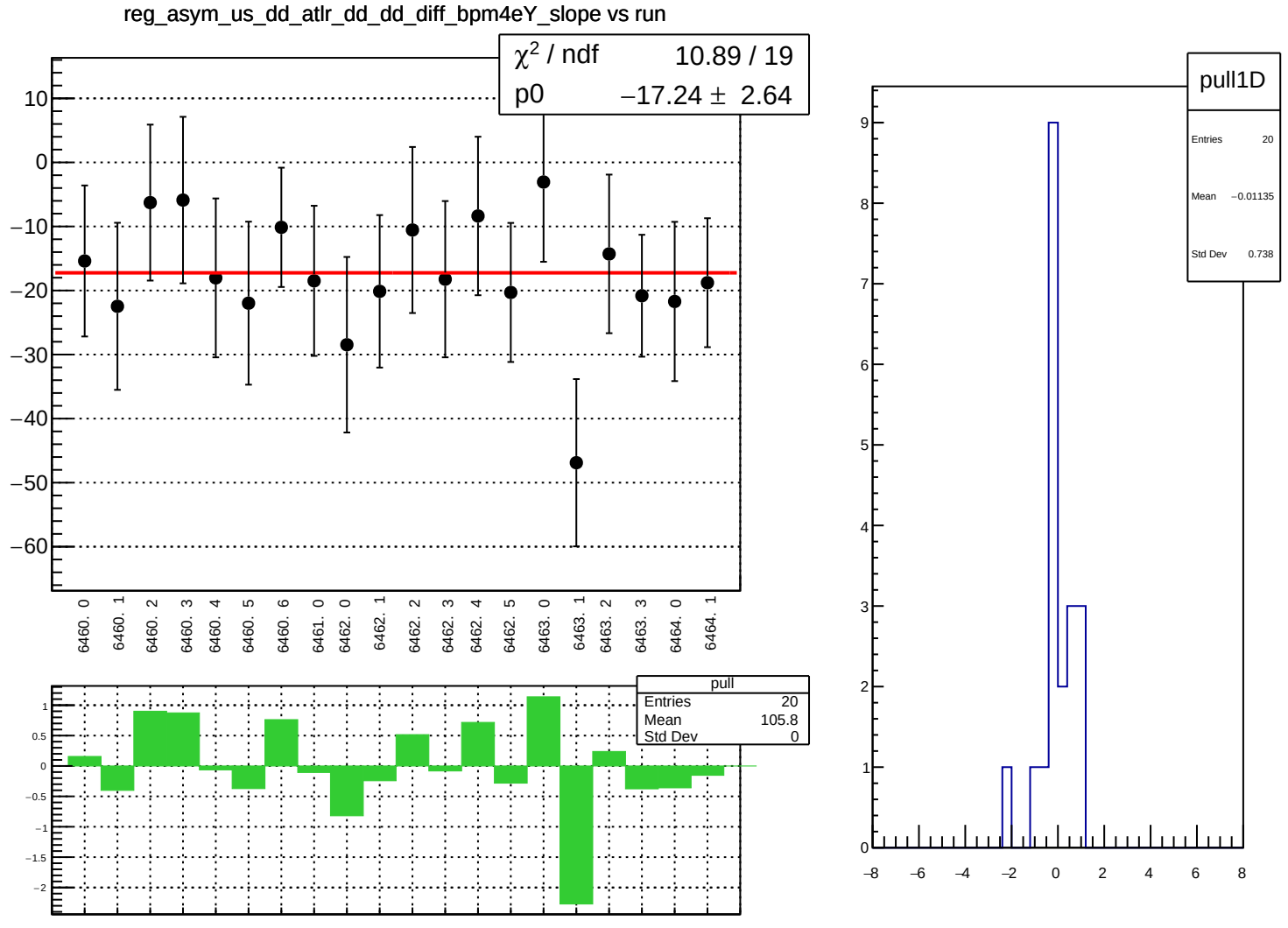

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 6.359 / 19
p0 6.484 ± 2.232
30
20
10
0
−10
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −11.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean −0.01803
Std Dev 0.5636
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

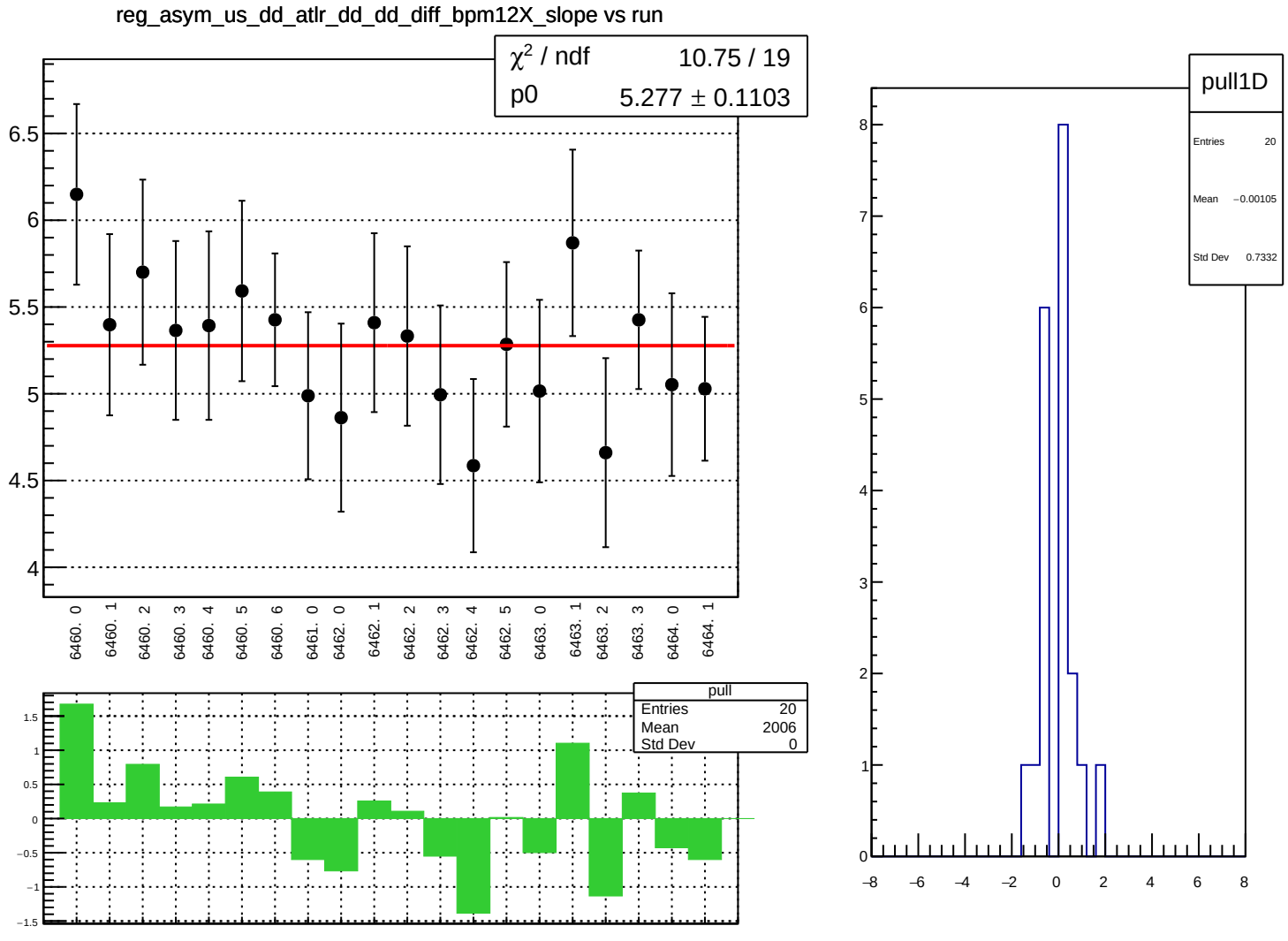

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.505 / 19
p0 7.334 ± 2.612
50
40
30
20
10
0
−10
−20
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1

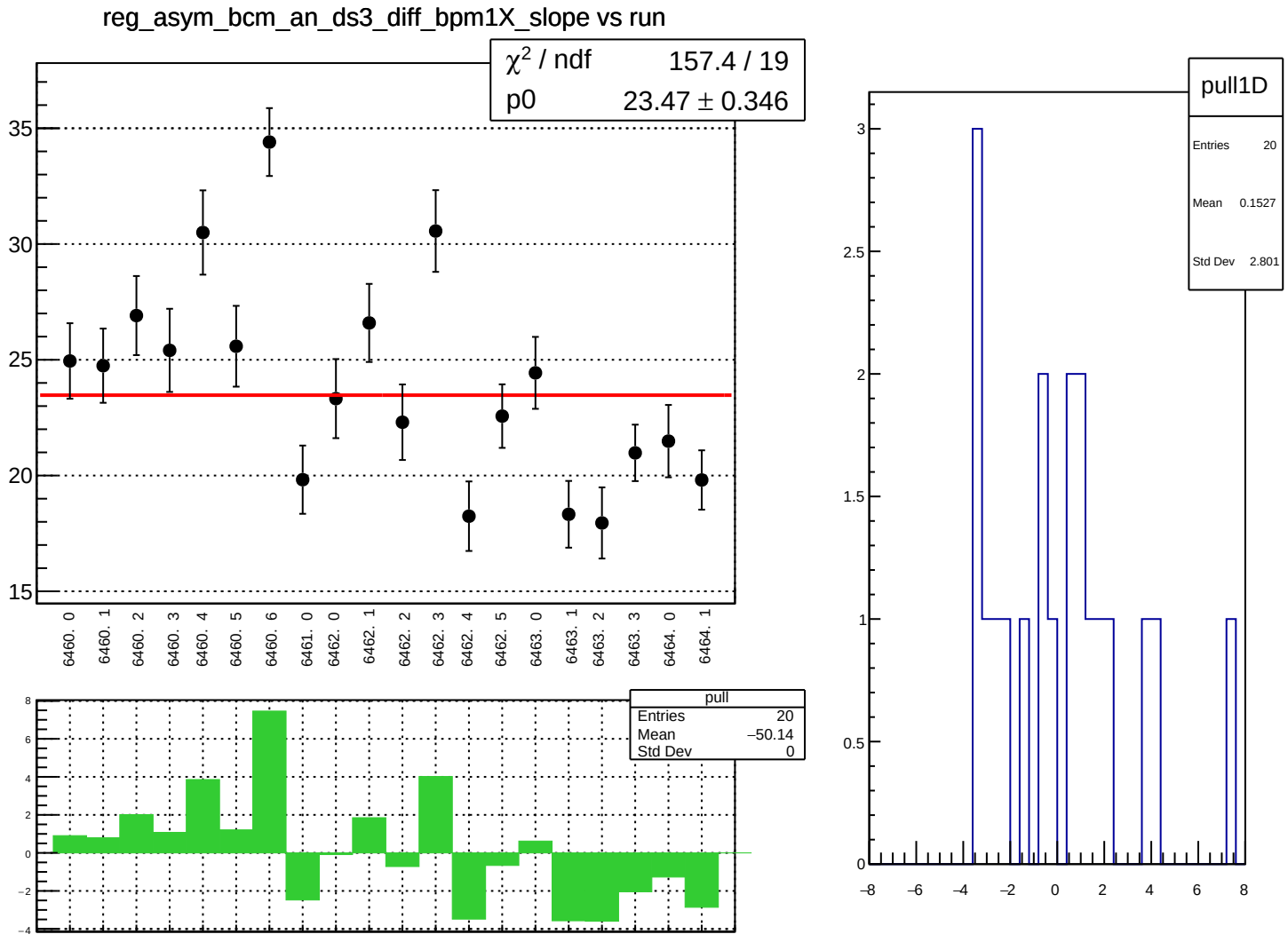

pull
Entries 20
Mean 56.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

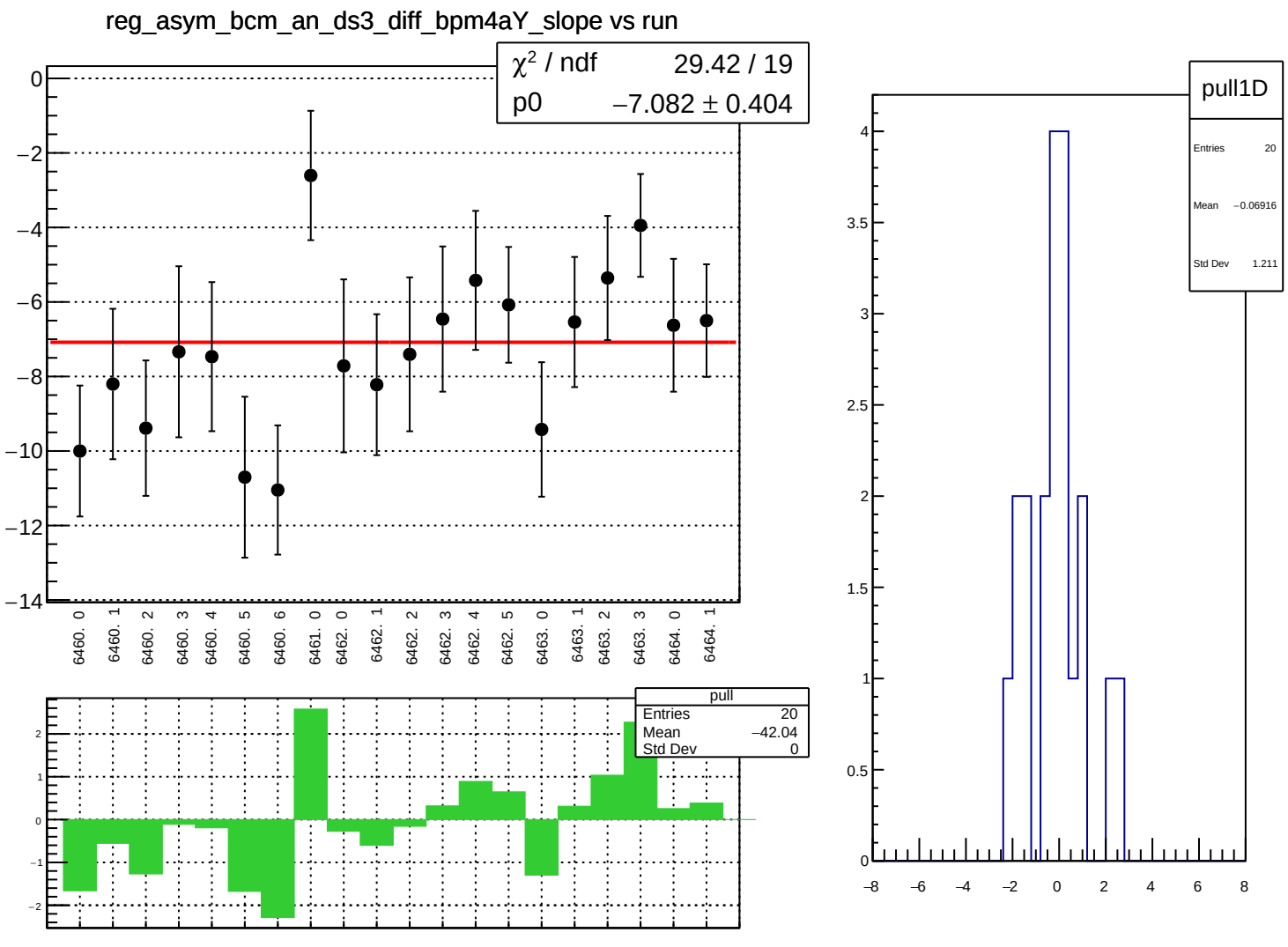

pull1D
Entries 20
Mean 0.01644
Std Dev 0.6892
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

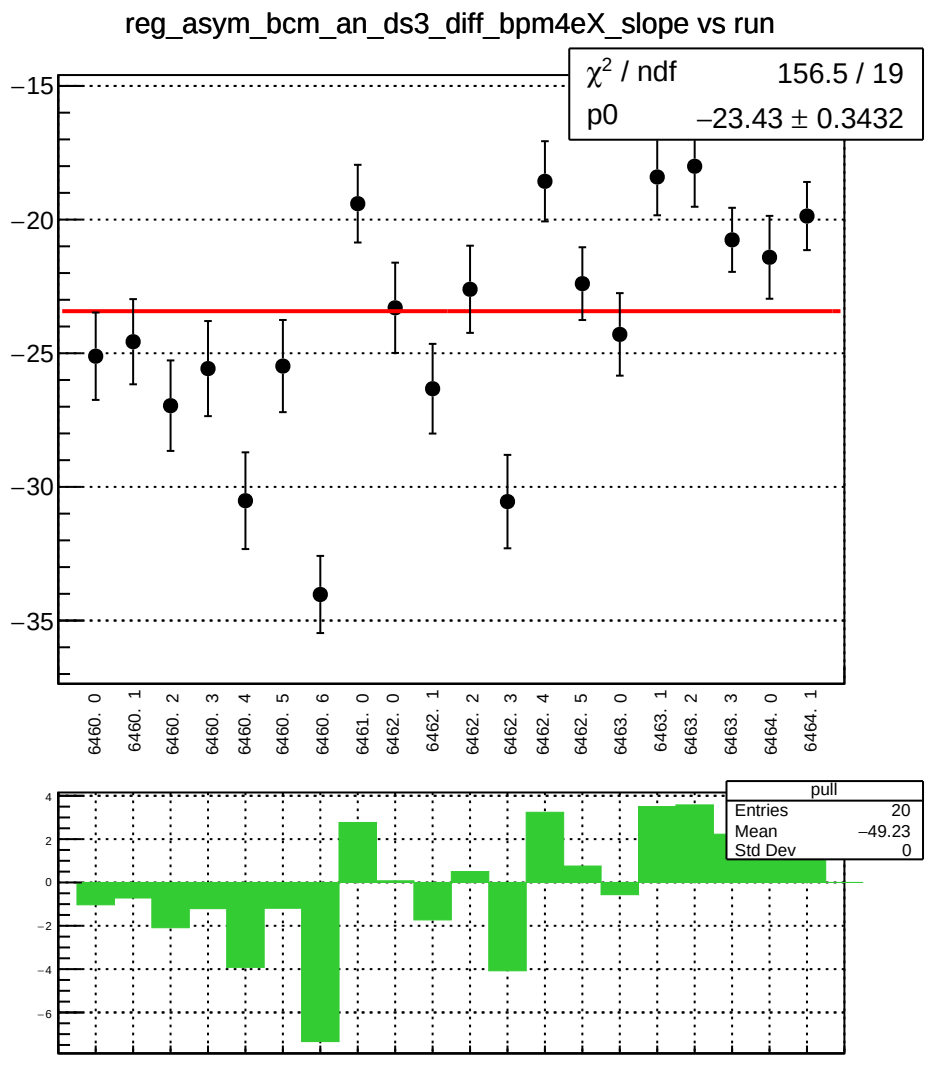

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.855 / 19
p0 −50.8 ± 2.213
−30
−40
−50
−60
−70
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −26.92
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 20
Mean 0.01174
Std Dev 0.5409
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

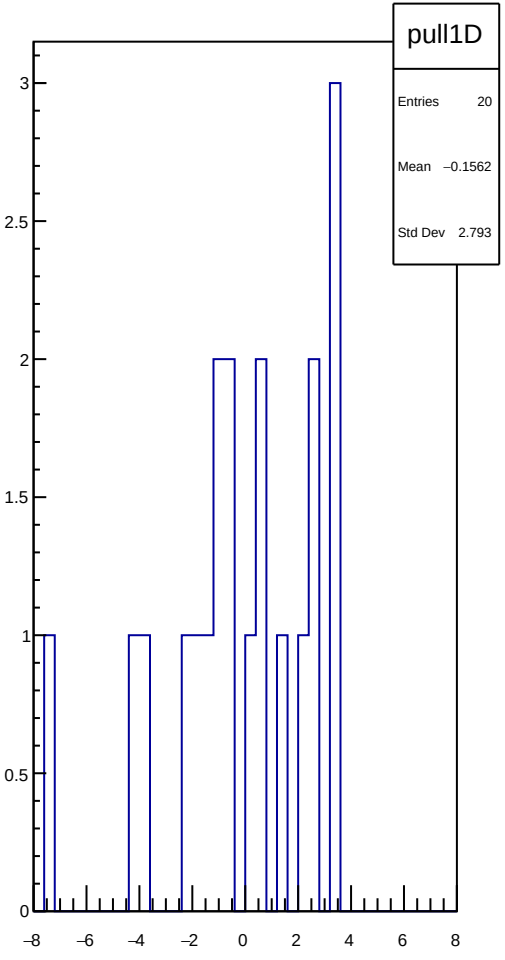

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.89 / 19
p0 −17.24 ± 2.64
10
0
−10
−20
−30
−40
−50
−60
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 105.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.01135
Std Dev 0.738
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

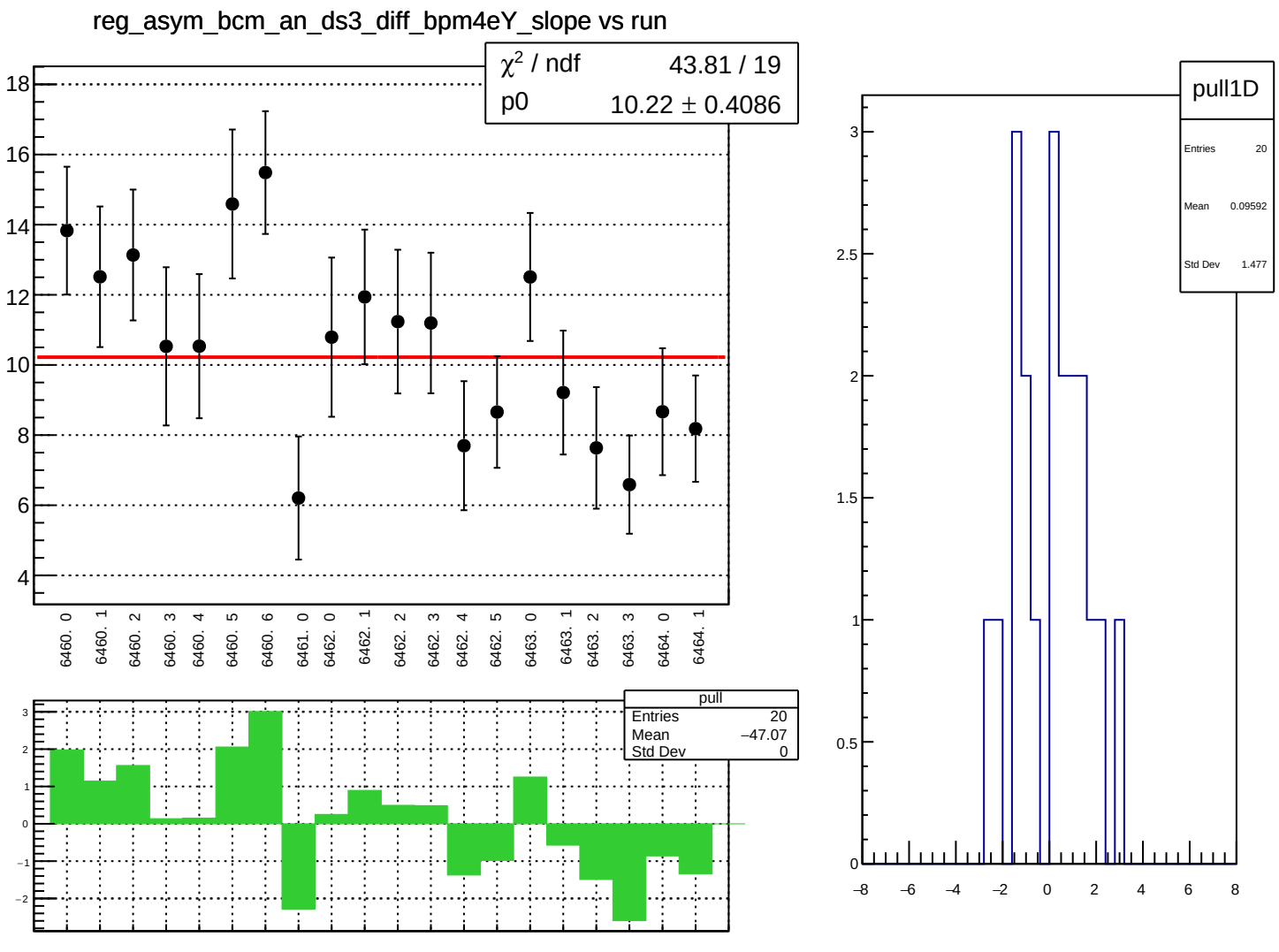

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 10.75 / 19
p0 5.277 ± 0.1103
6.5
6
5.5
5
4.5
4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 2006
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.00105
Std Dev 0.7332
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

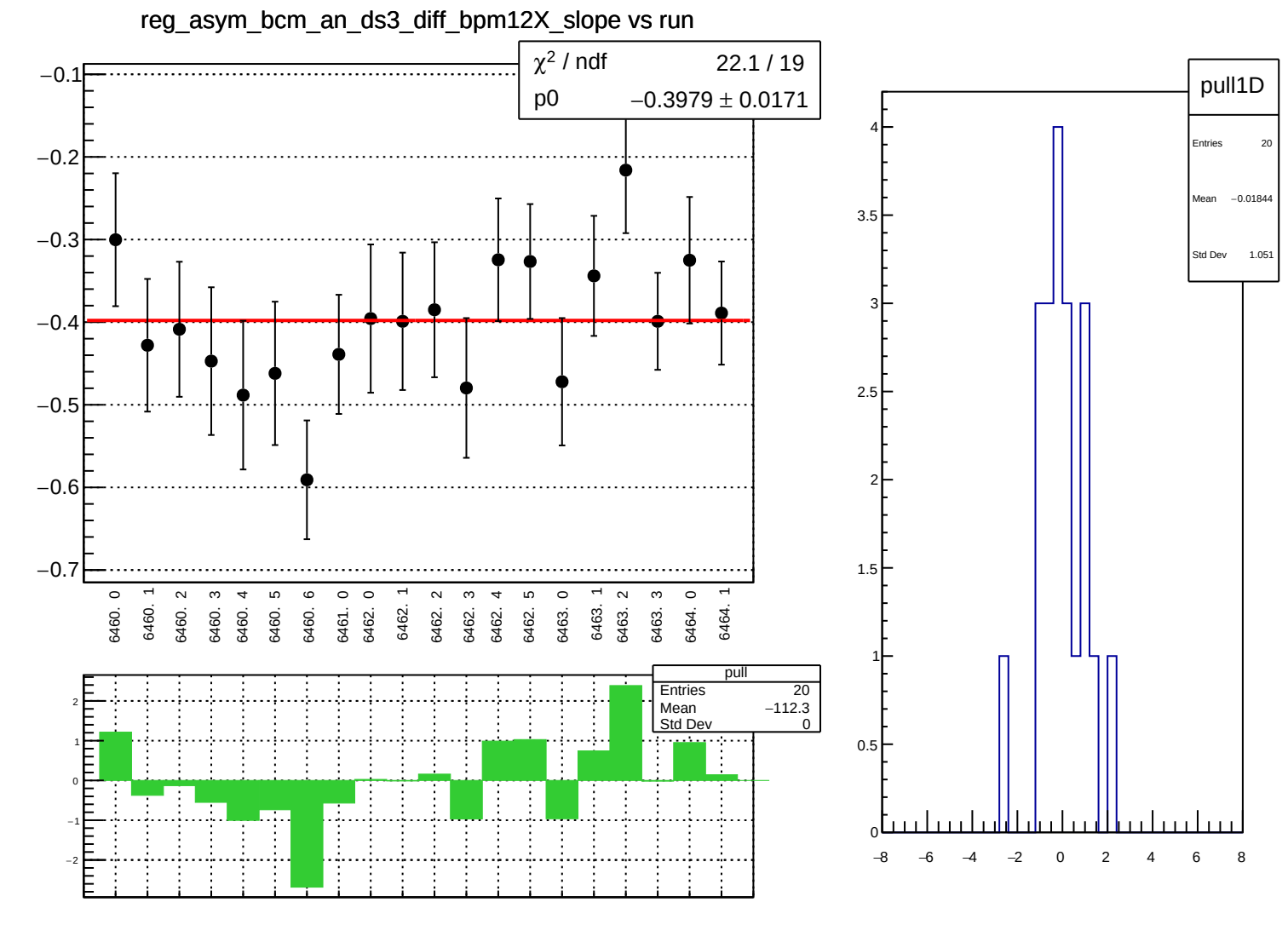

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 157.4 / 19
p0 23.47 ± 0.346
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.14
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 20
Mean 0.1527
Std Dev 2.801
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

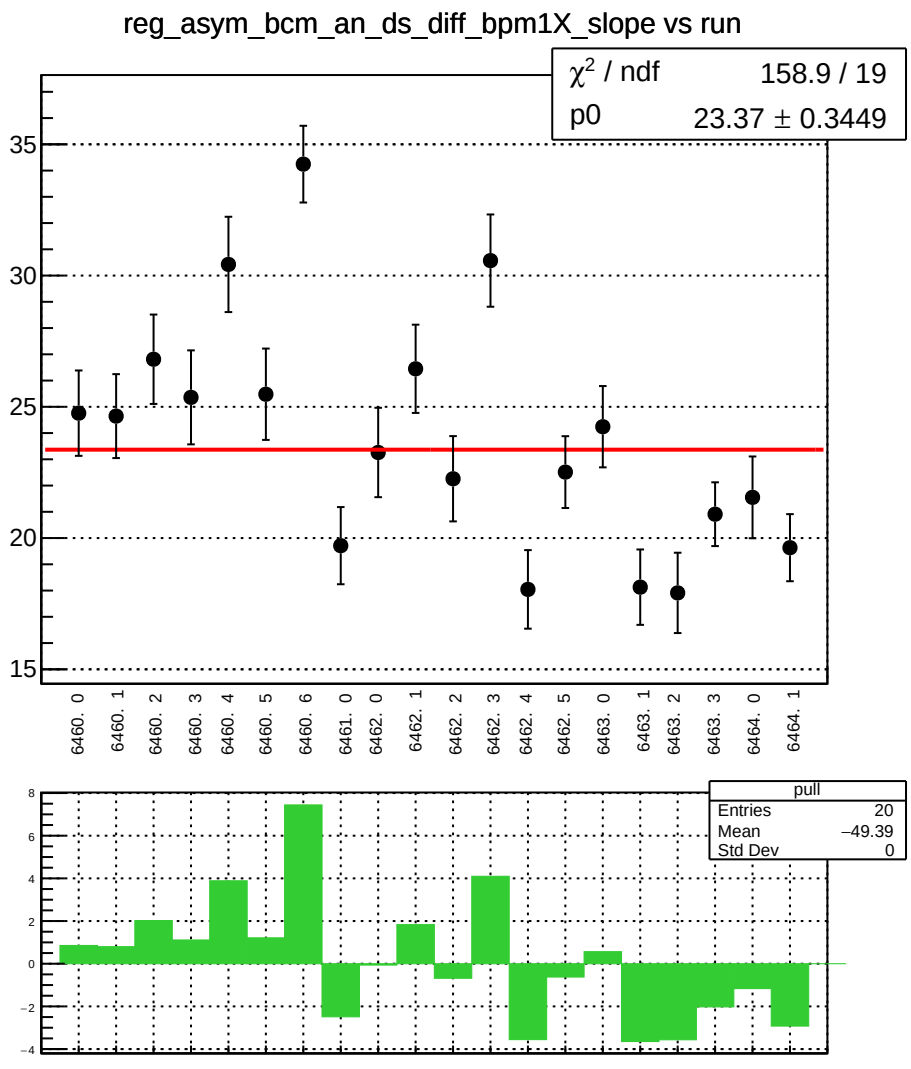

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 29.42 / 19
p0 −7.082 ± 0.404
0
−2
−4
−6
−8
−10
−12
−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −42.04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.06916
Std Dev 1.211
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

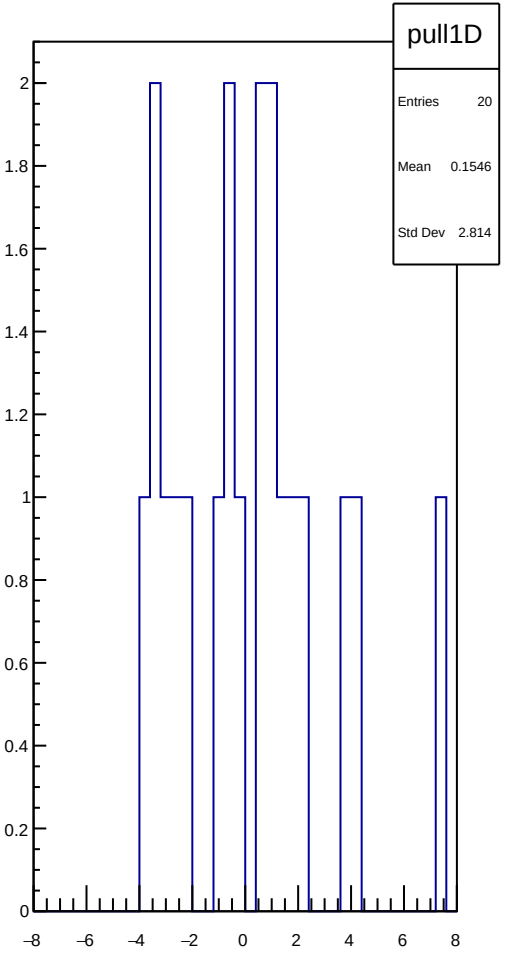

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 156.5 / 19
p0 −23.43 ± 0.3432
−15
−20
−25
−30
−35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.23
Std Dev 0
4
2
0
−2
−4
−6

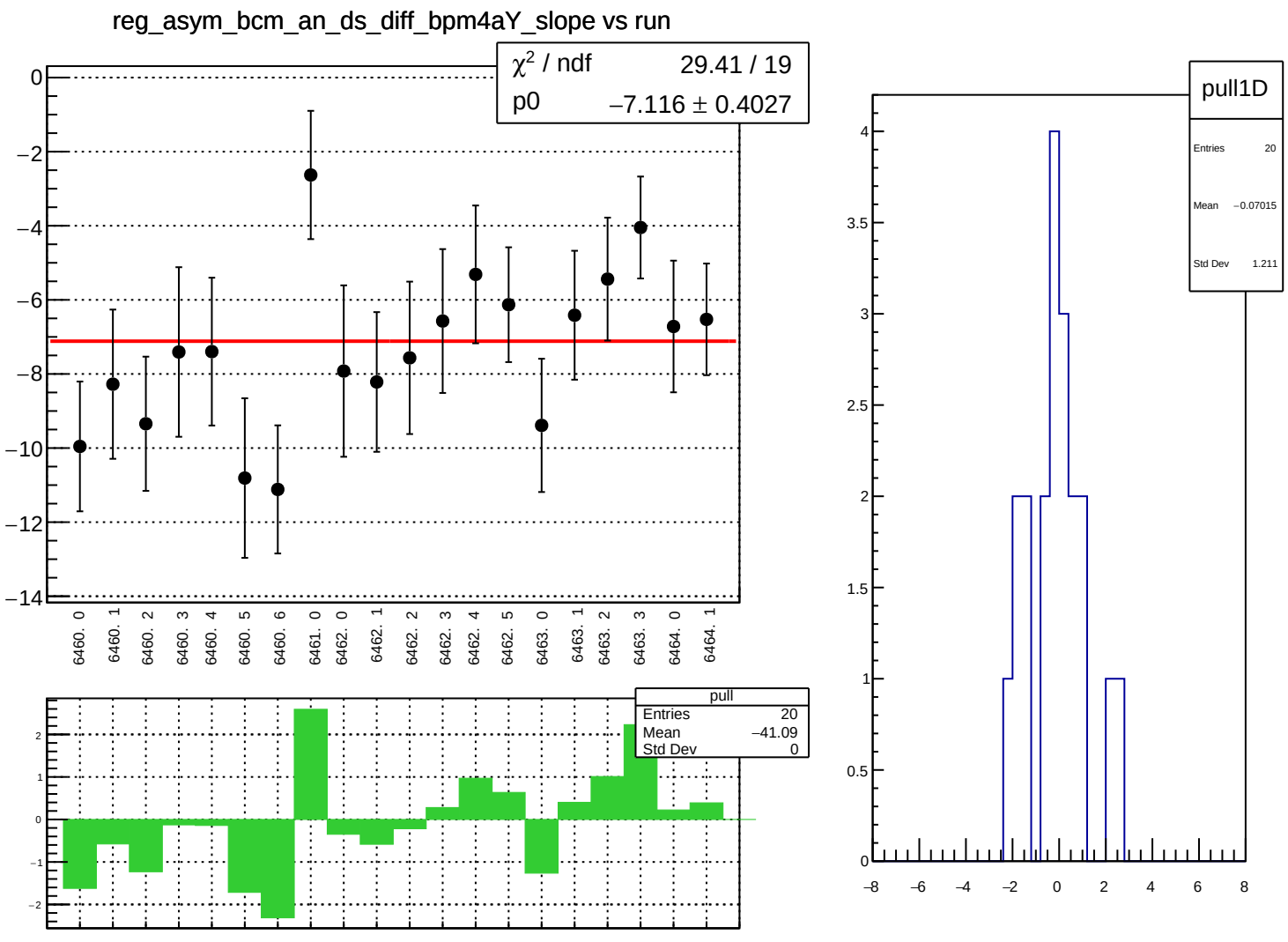

pull1D
Entries 20
Mean −0.1562
Std Dev 2.793
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

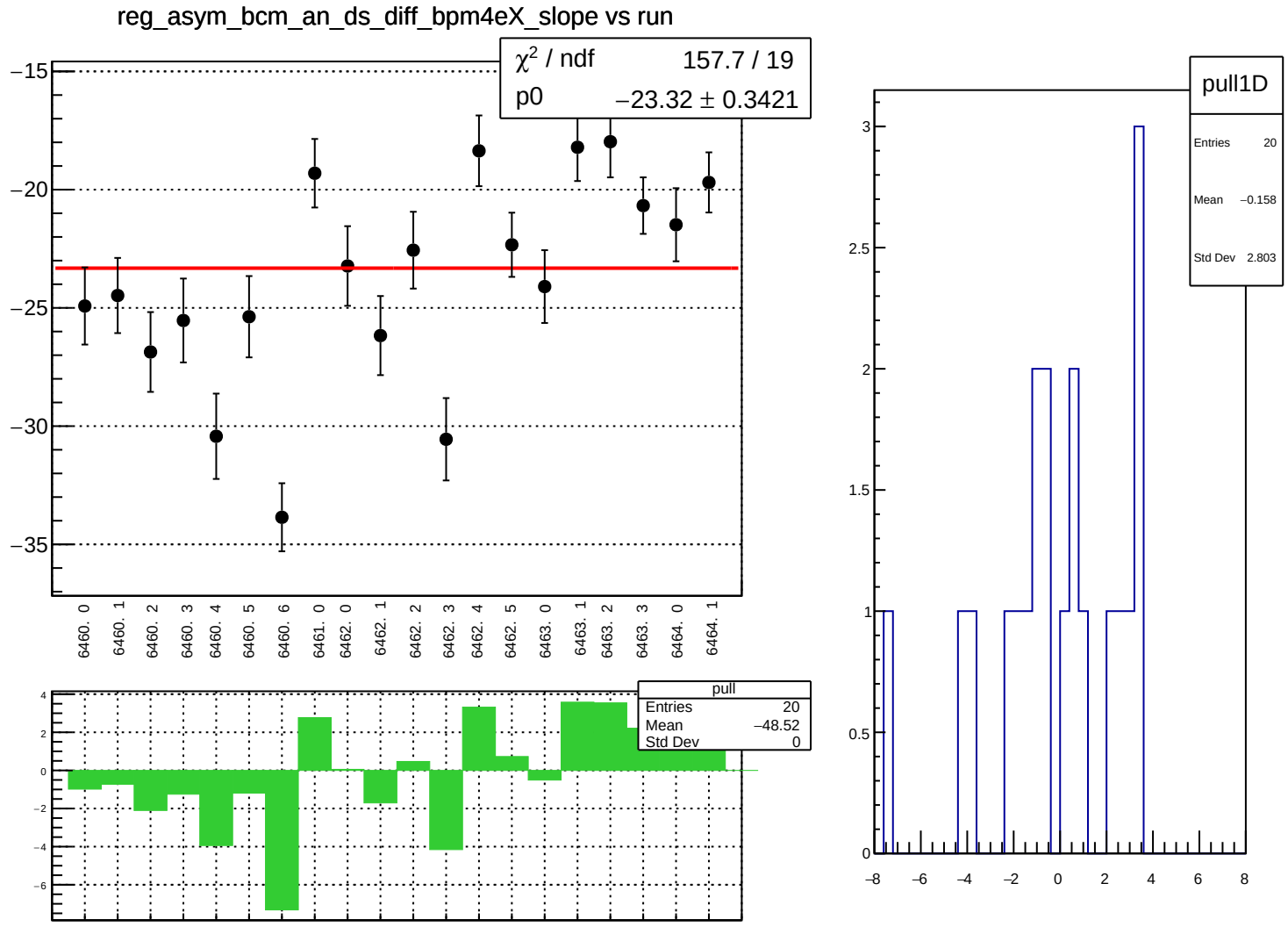

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 43.81 / 19
p0 10.22 ± 0.4086
18
16
14
12
10
8
6
4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −47.07
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.09592
Std Dev 1.477
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

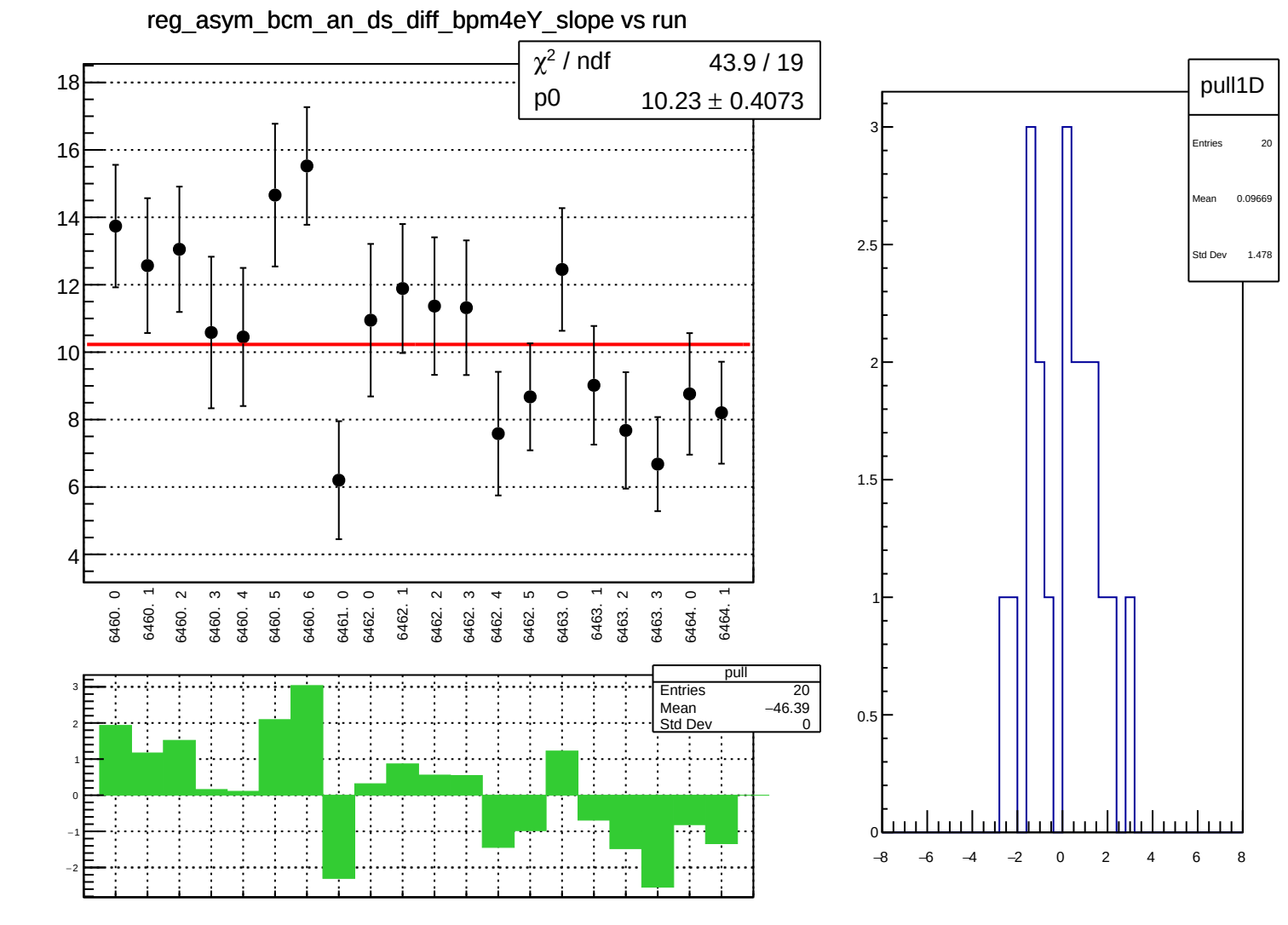

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 22.1 / 19
p0 −0.3979 ± 0.0171
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −112.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.01844
Std Dev 1.051
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

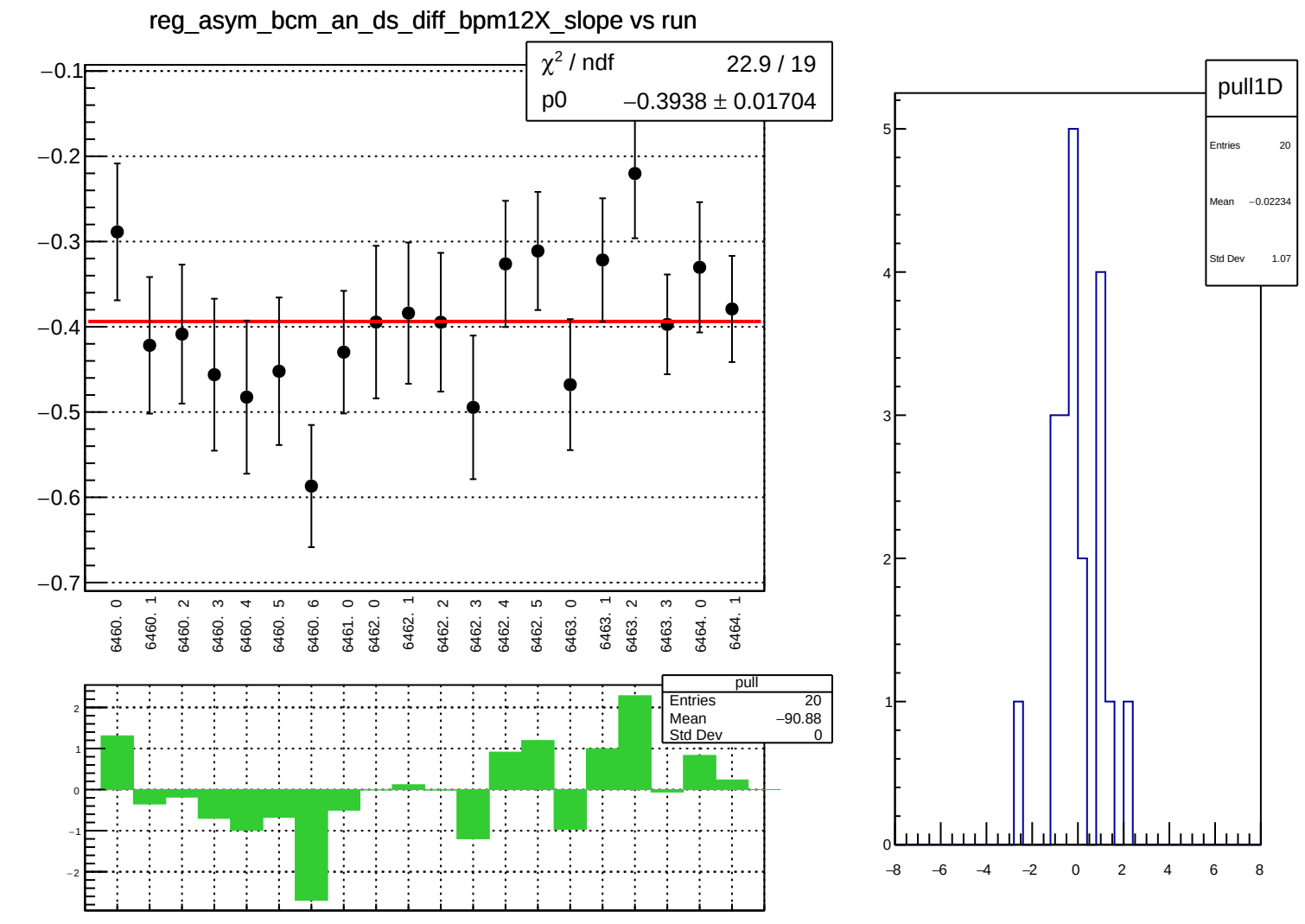

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 158.9 / 19
p0 23.37 ± 0.3449
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.39
Std Dev 0
8
6
4
2
0
−2
−4

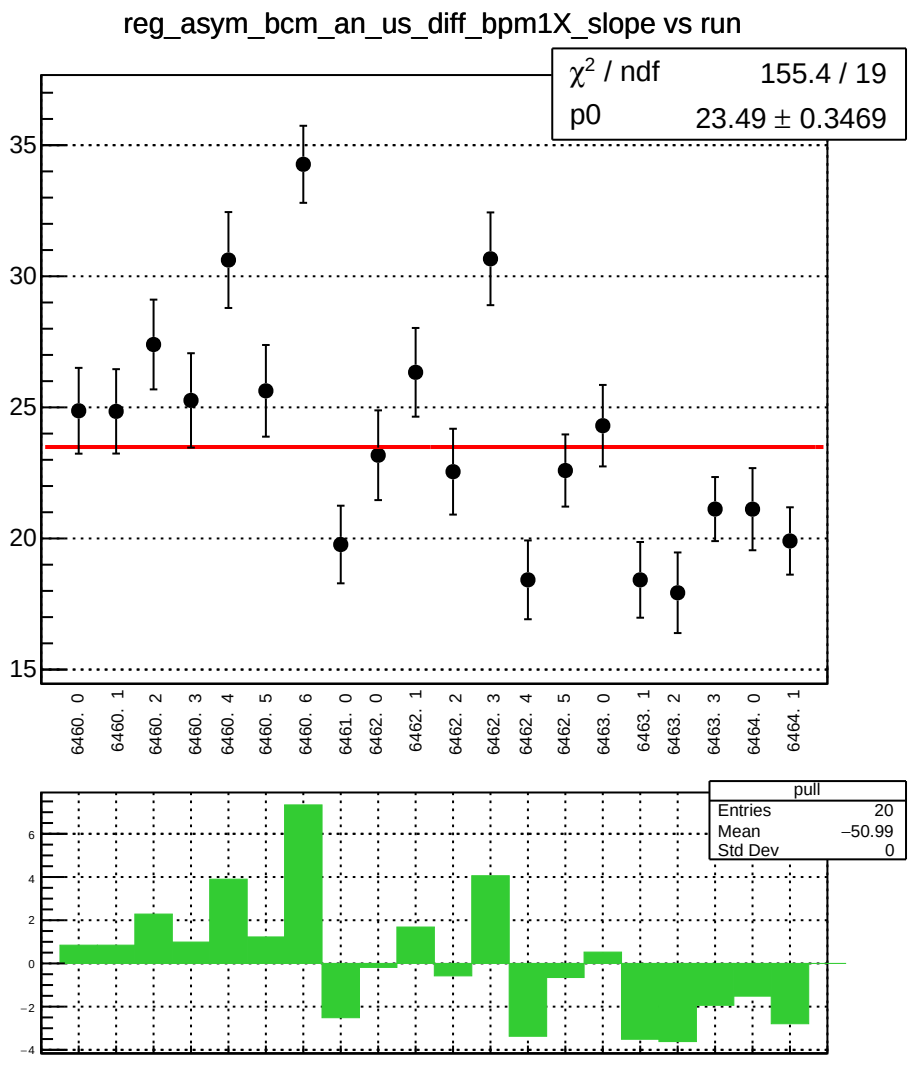

pull1D
Entries 20
Mean 0.1546
Std Dev 2.814
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

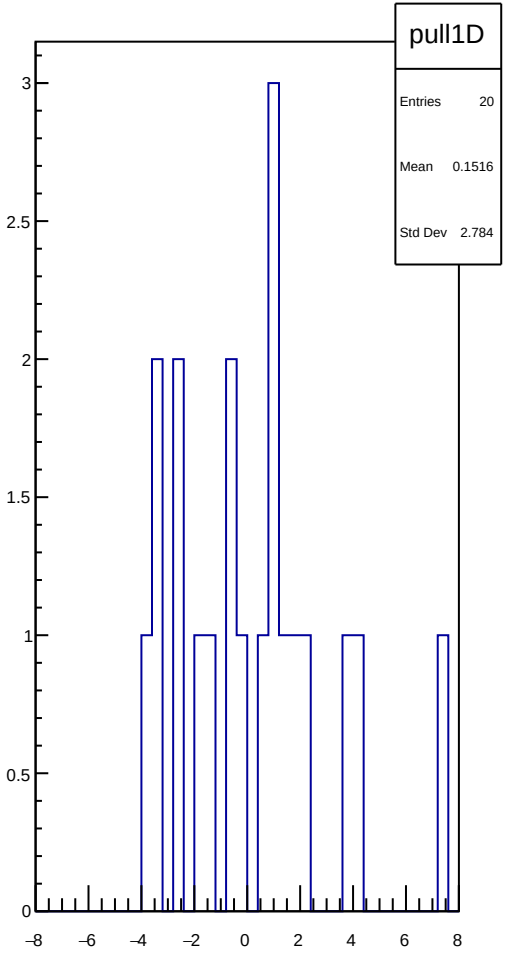

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 29.41 / 19
p0 −7.116 ± 0.4027
0
−2
−4
−6
−8
−10
−12
−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −41.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.07015
Std Dev 1.211
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

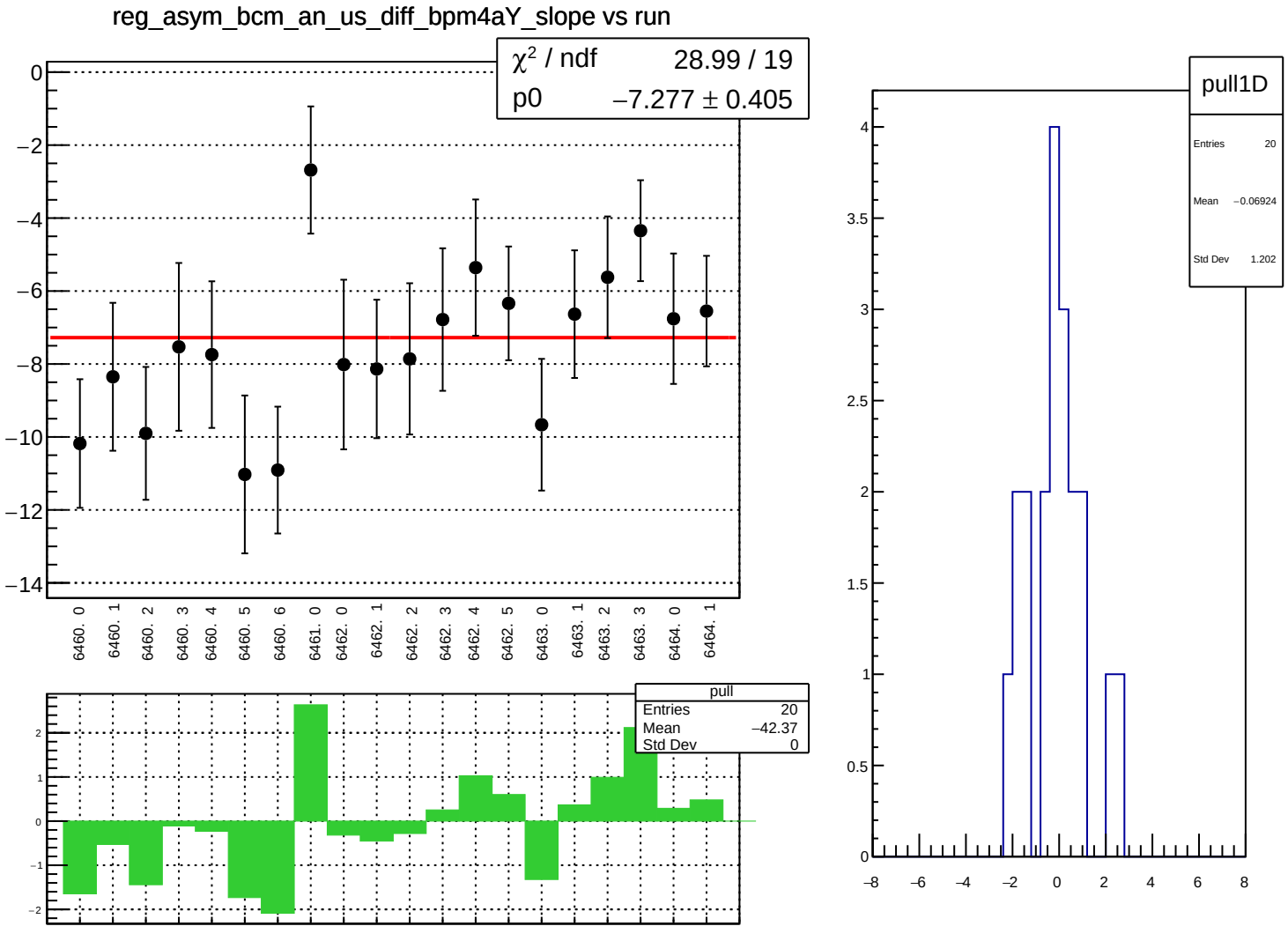

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 157.7 / 19
p0 −23.32 ± 0.3421
−15
−20
−25
−30
−35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −48.52
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 20
Mean −0.158
Std Dev 2.803
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

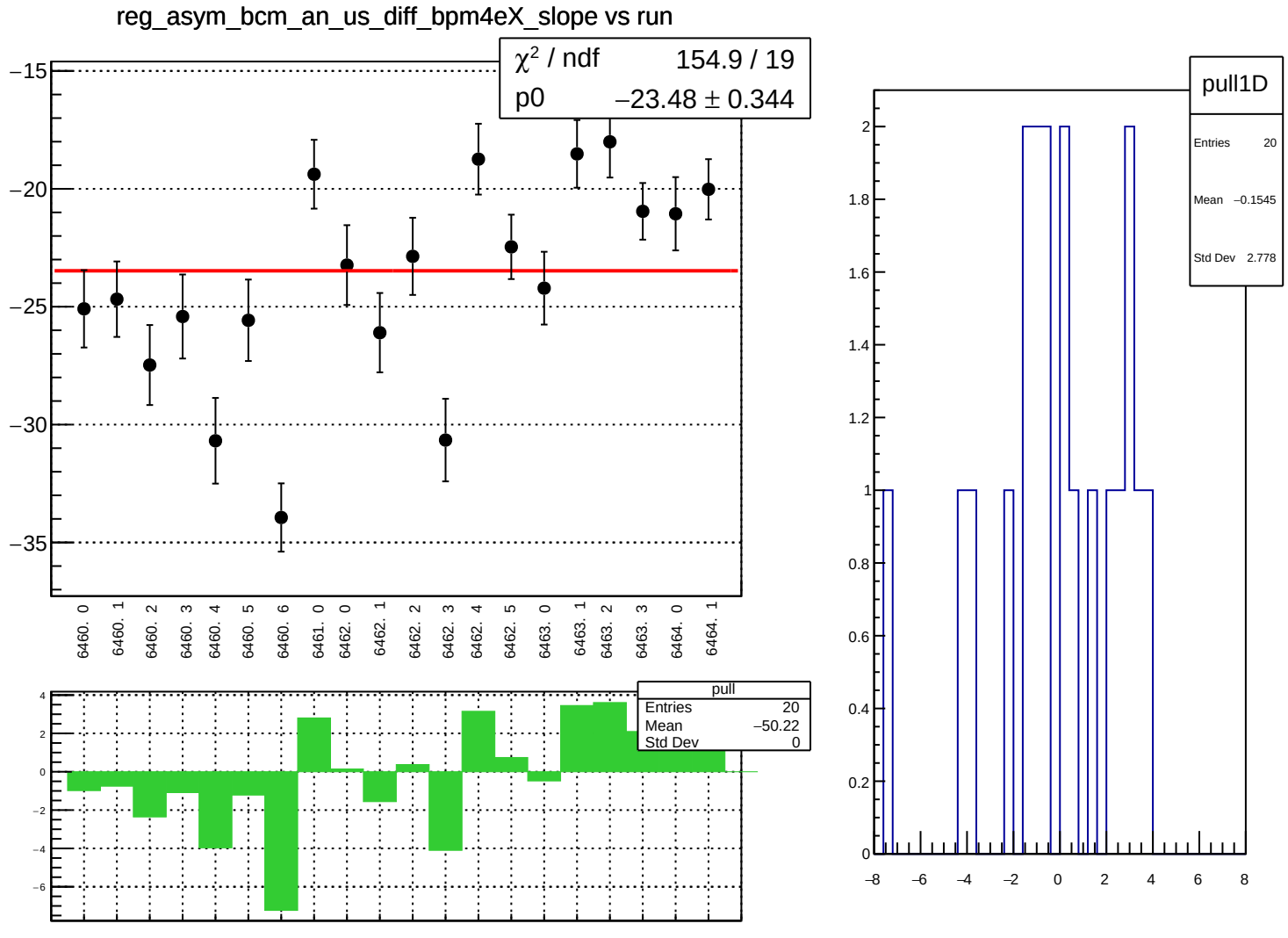

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 43.9 / 19
p0 10.23 ± 0.4073
18
16
14
12
10
8
6
4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −46.39
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.09669
Std Dev 1.478
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

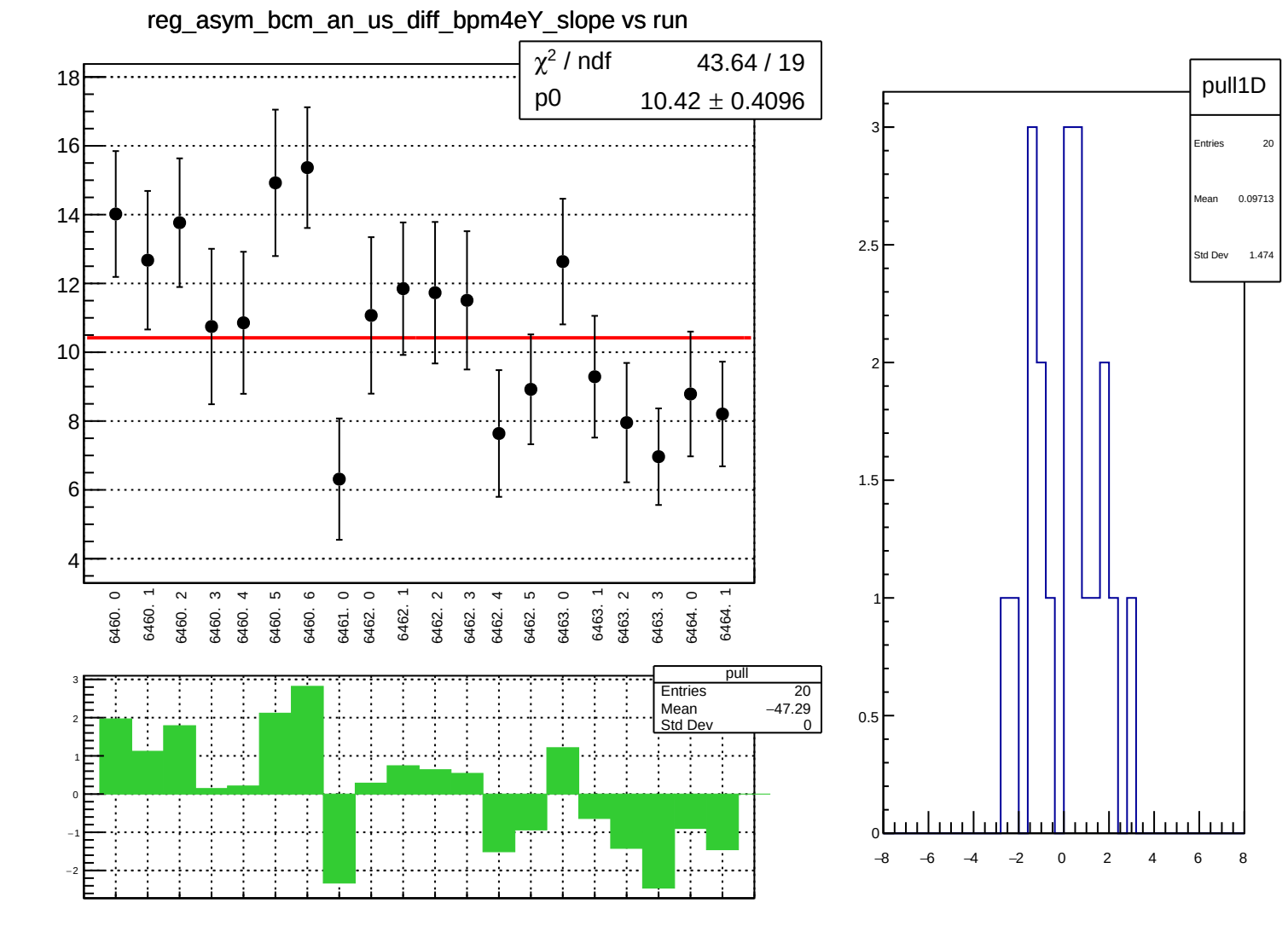

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 22.9 / 19
p0 −0.3938 ± 0.01704
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −90.88
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.02234
Std Dev 1.07
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

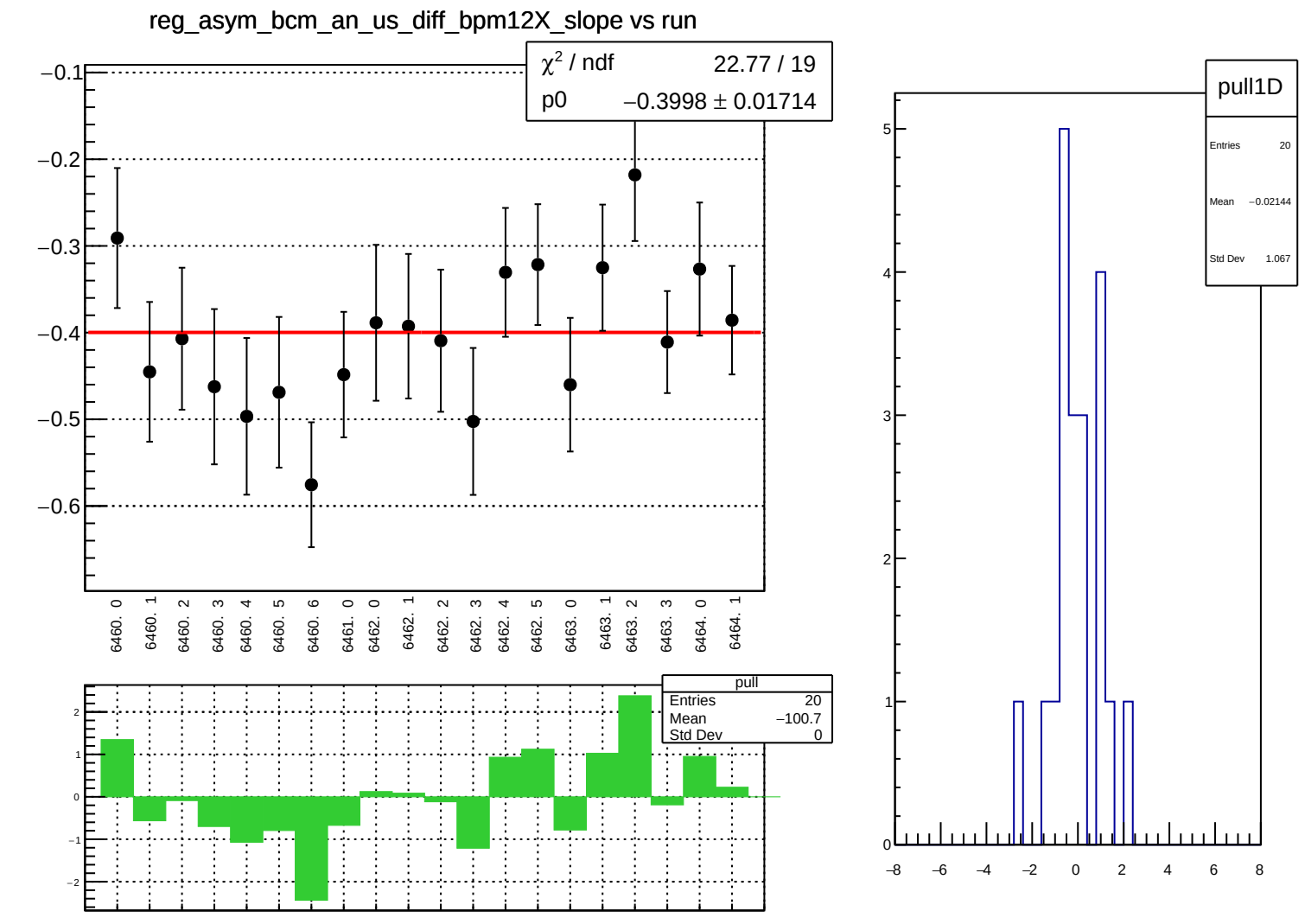

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 155.4 / 19
p0 23.49 ± 0.3469
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.99
Std Dev 0
6
4
2
0
−2
−4

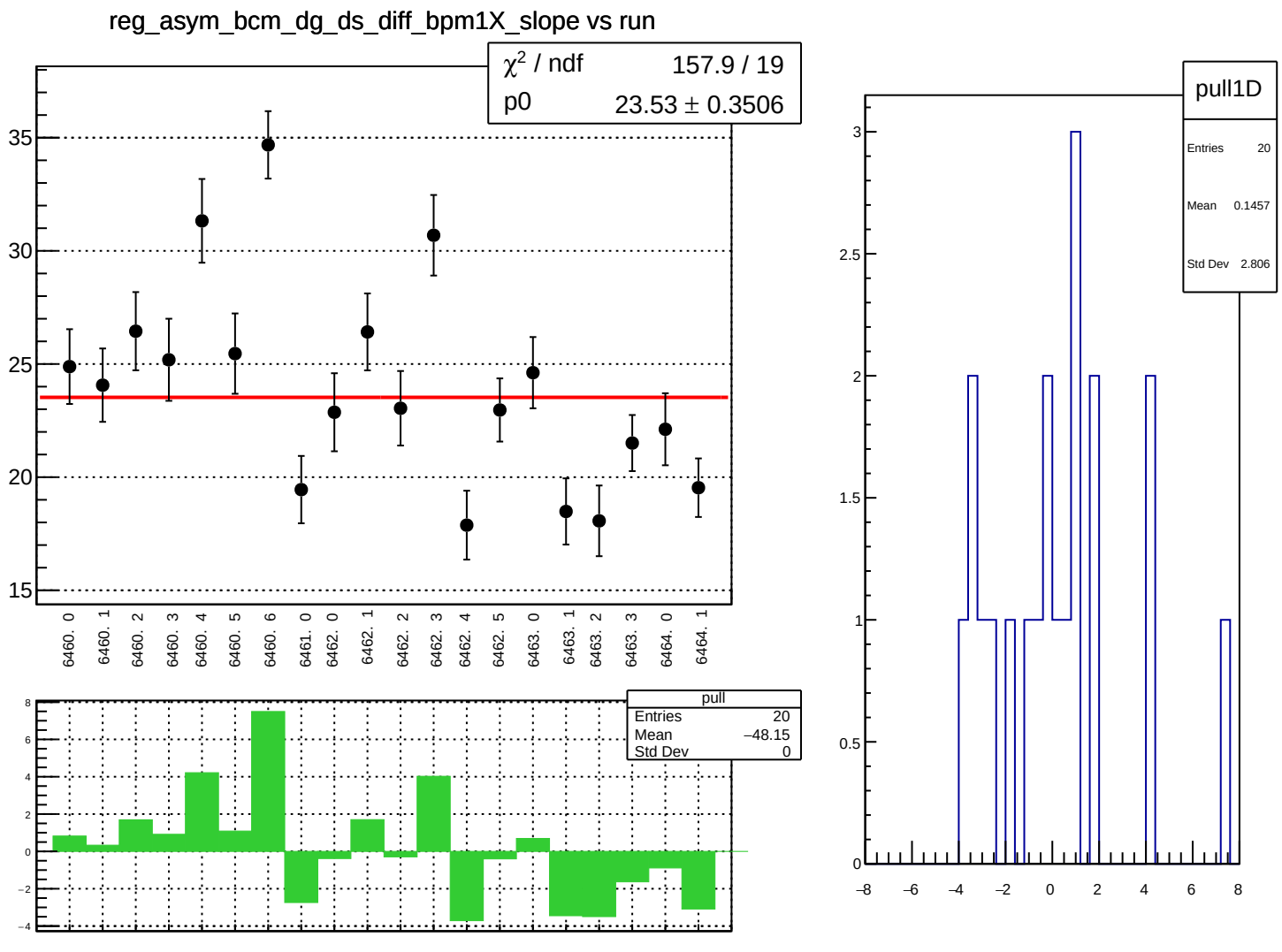

pull1D
Entries 20
Mean 0.1516
Std Dev 2.784
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

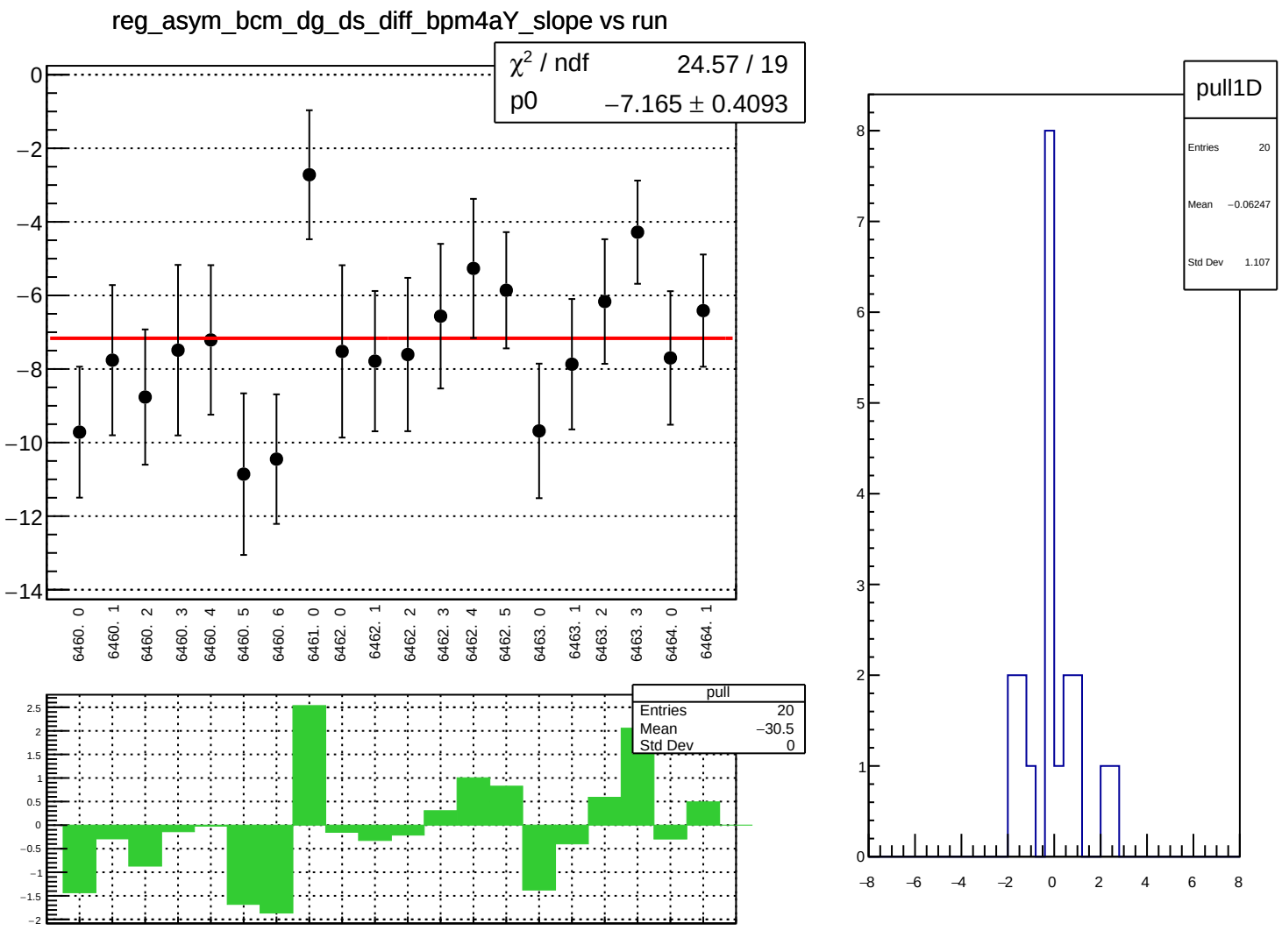

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 28.99 / 19
p0 −7.277 ± 0.405
0
−2
−4
−6
−8
−10
−12
−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −42.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.06924
Std Dev 1.202
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

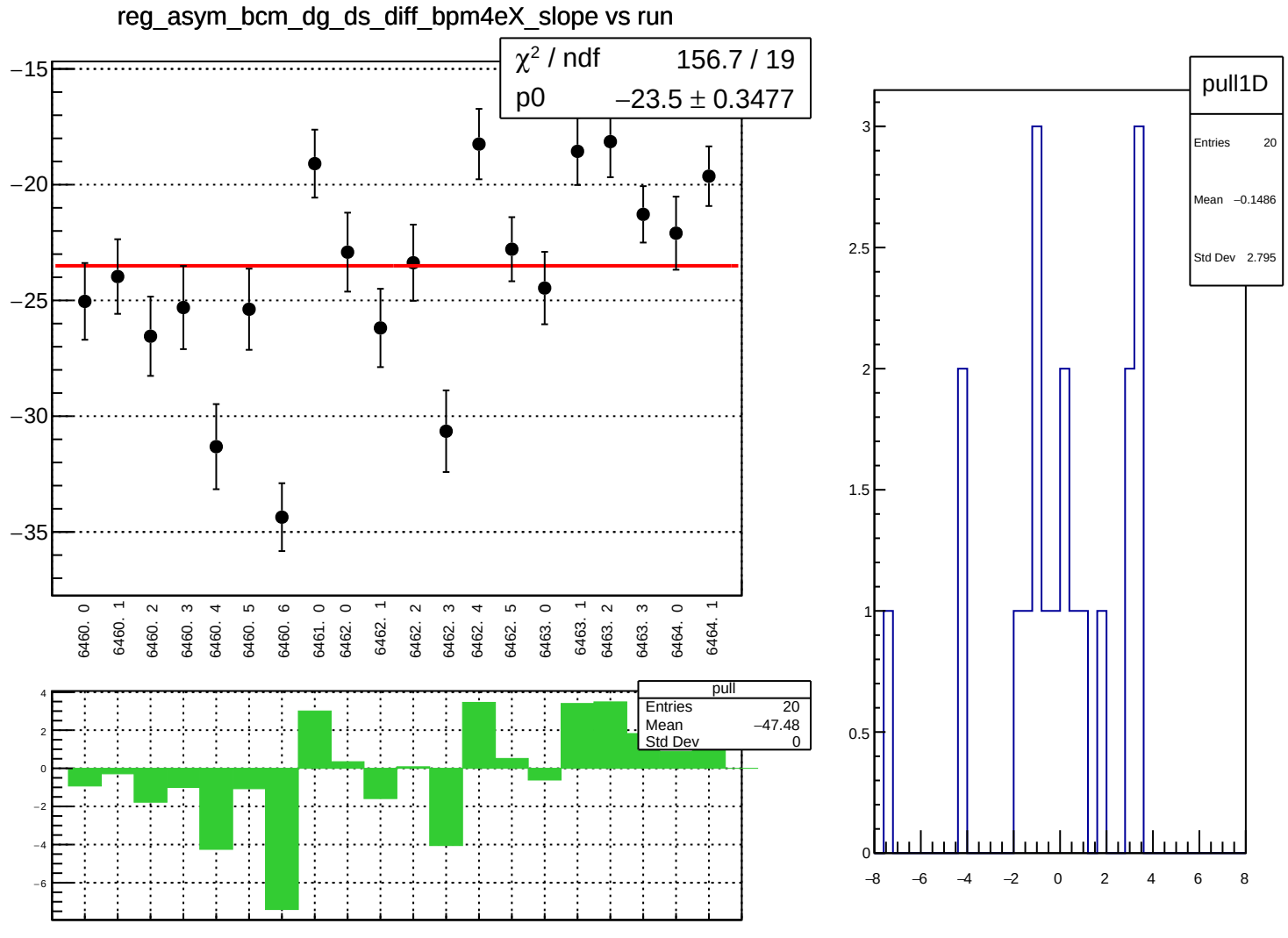

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 154.9 / 19
p0 −23.48 ± 0.344
−15
−20
−25
−30
−35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.22
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 20
Mean −0.1545
Std Dev 2.778
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

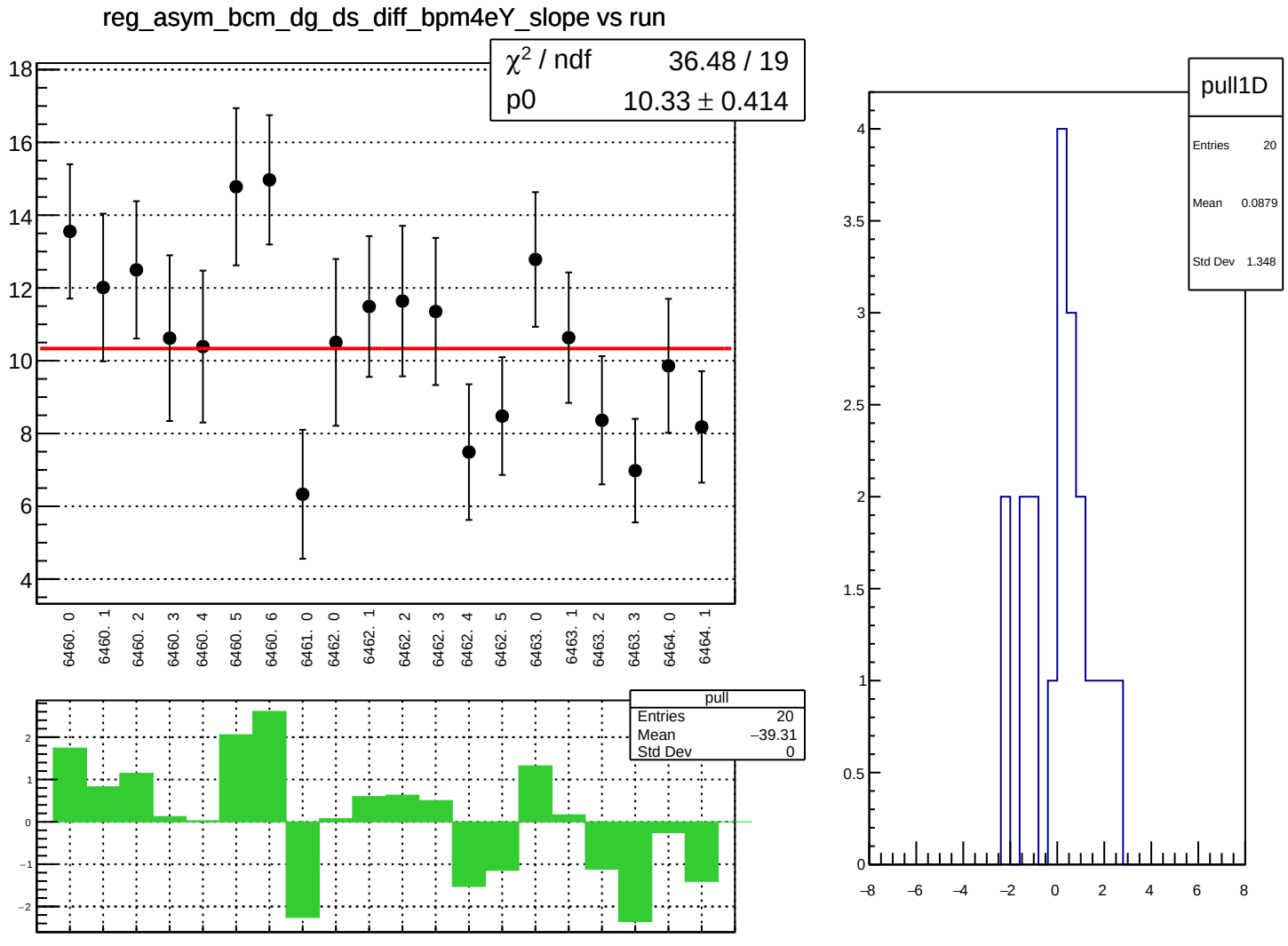

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 43.64 / 19
p0 10.42 ± 0.4096
18
16
14
12
10
8
6
4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −47.29
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.09713
Std Dev 1.474
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

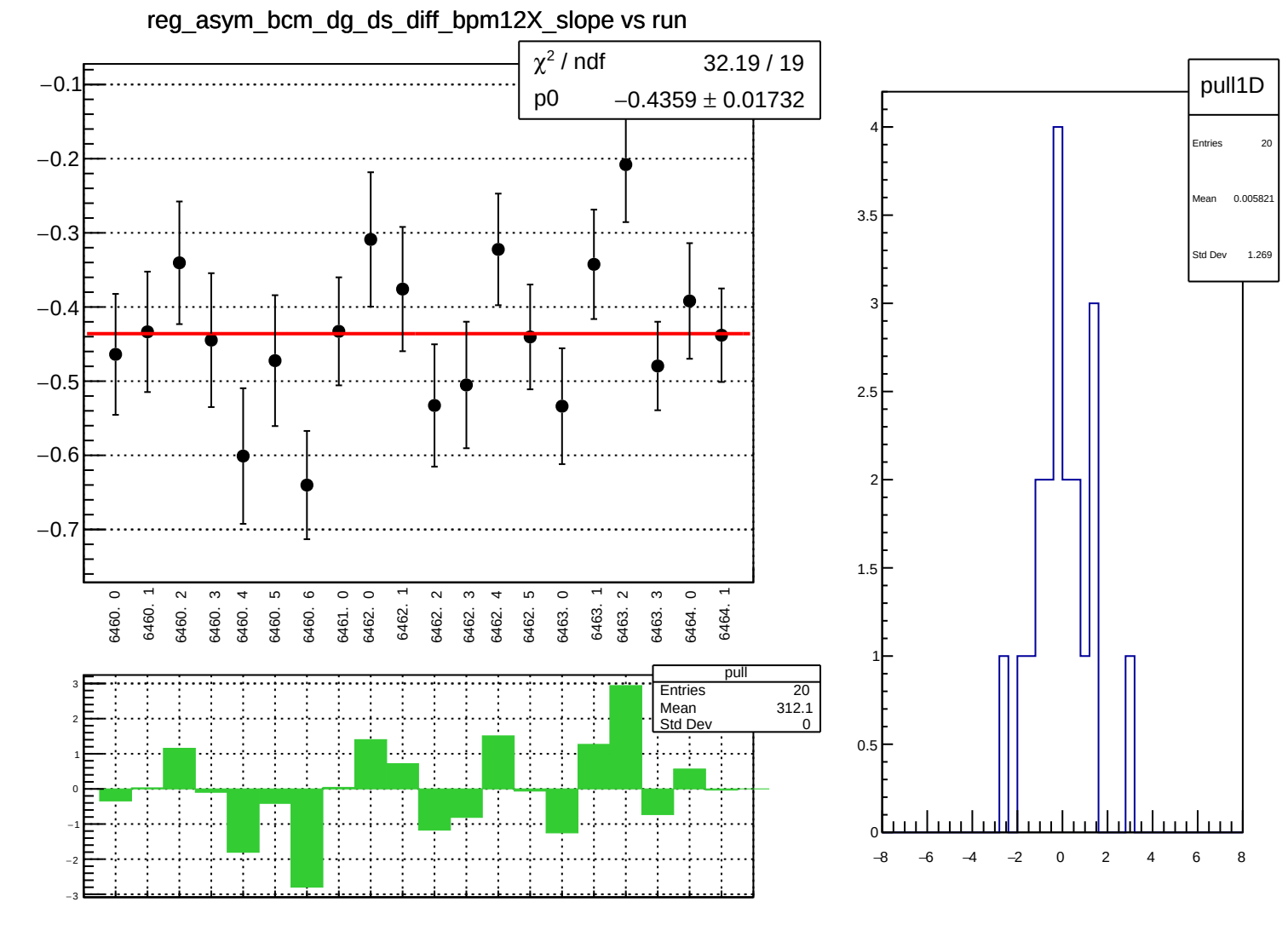

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 22.77 / 19
p0 −0.3998 ± 0.01714
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −100.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.02144
Std Dev 1.067
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

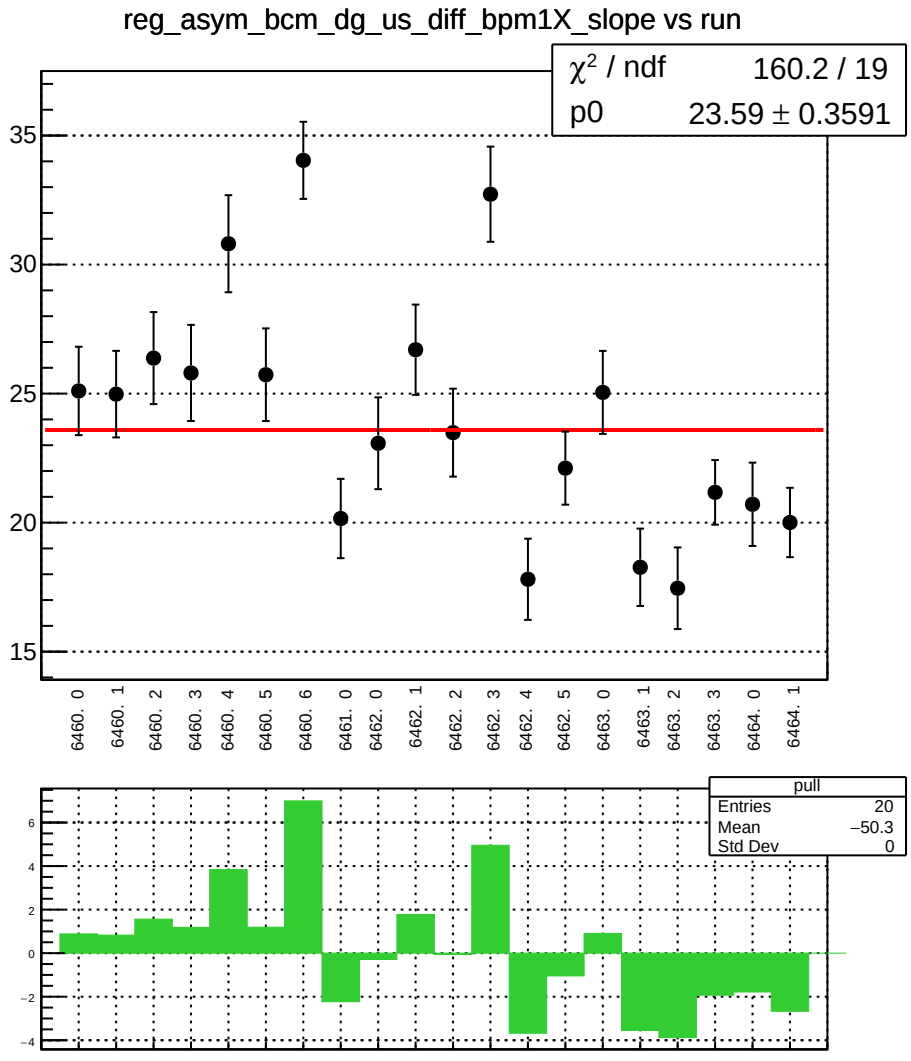

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 157.9 / 19
p0 23.53 ± 0.3506
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −48.15
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 20
Mean 0.1457
Std Dev 2.806
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

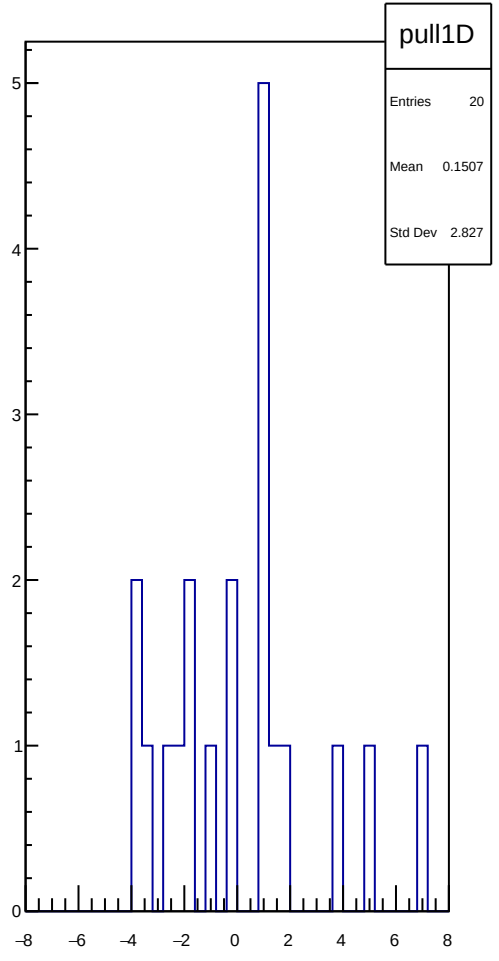

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 24.57 / 19
p0 −7.165 ± 0.4093
0
−2
−4
−6
−8
−10
−12
−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −30.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.06247
Std Dev 1.107
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

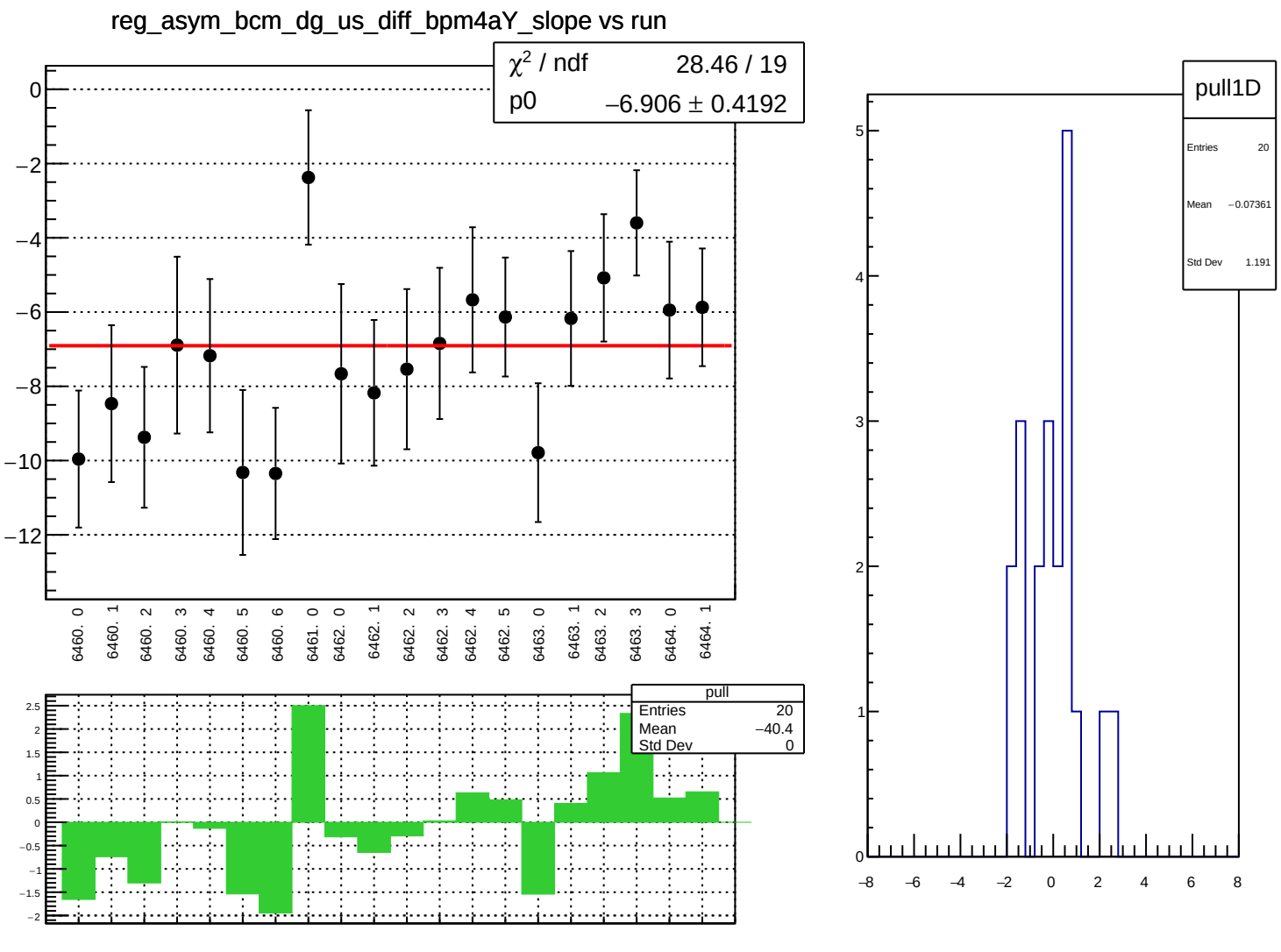

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 156.7 / 19
p0 −23.5 ± 0.3477
−15
−20
−25
−30
−35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −47.48
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 20
Mean −0.1486
Std Dev 2.795
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

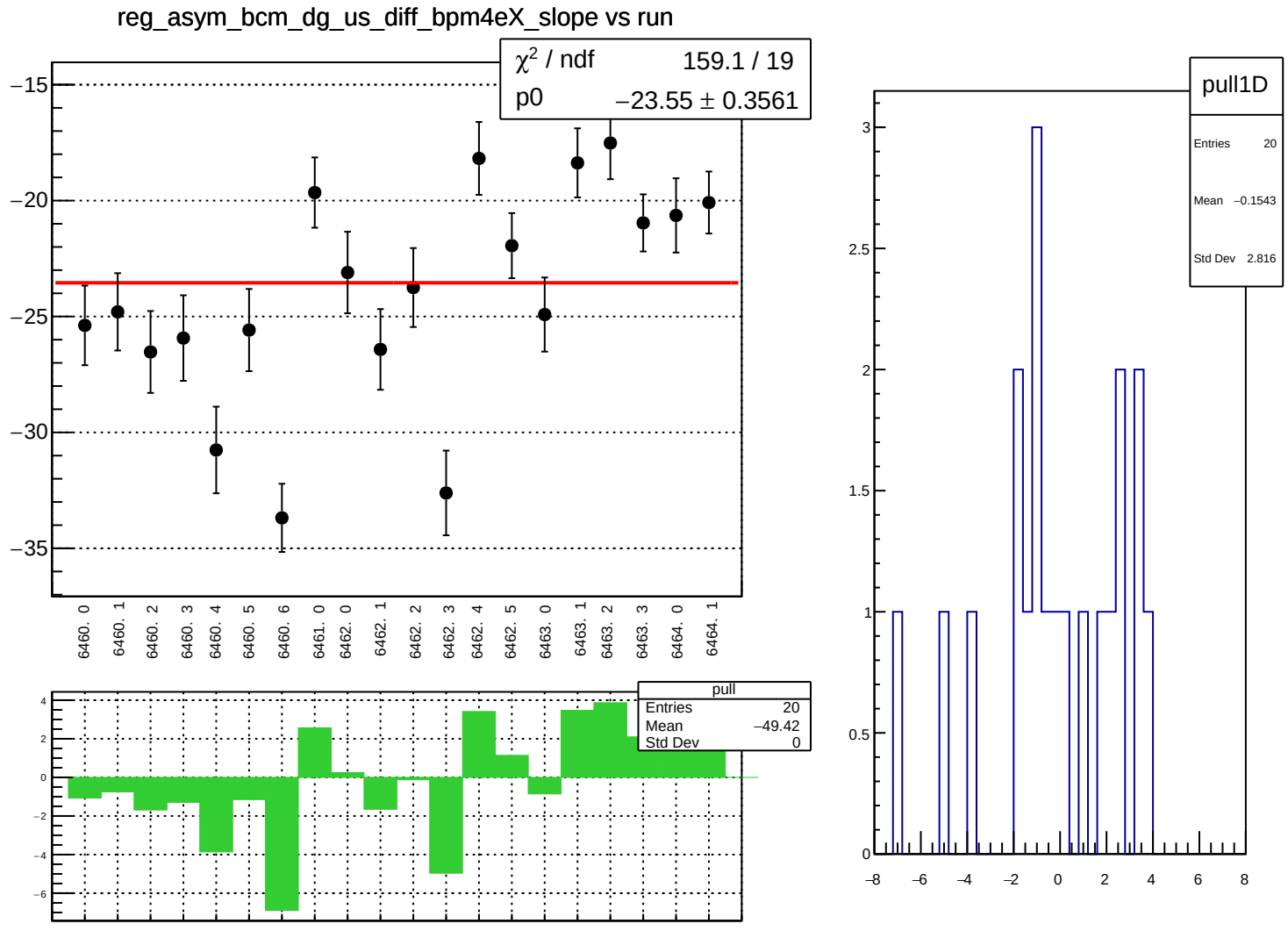

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 36.48 / 19
p0 10.33 ± 0.414
18
16
14
12
10
8
6
4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −39.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.0879
Std Dev 1.348
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

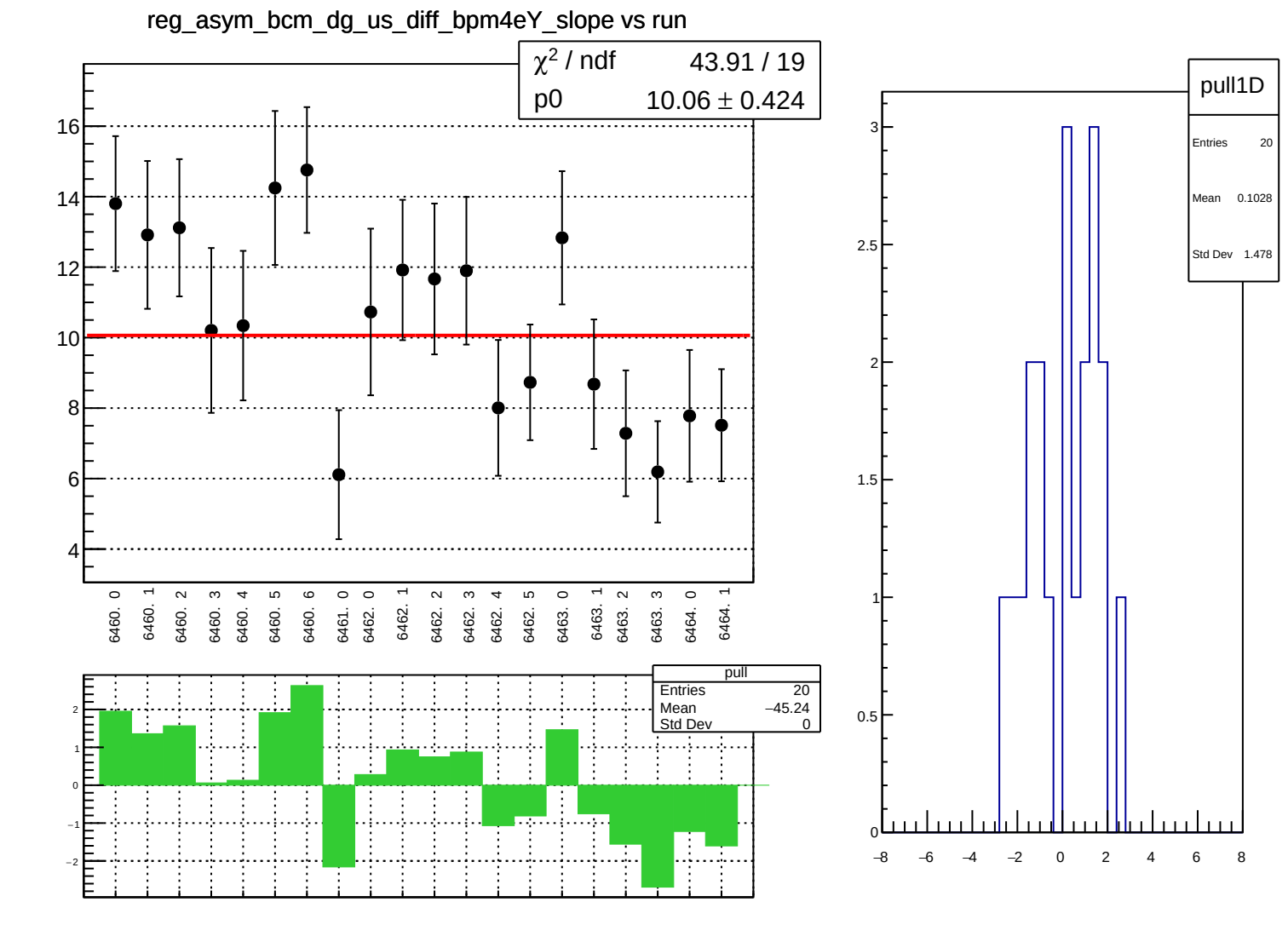

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 32.19 / 19
p0 −0.4359 ± 0.01732
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 312.1
Std Dev 0
pull1D
Entries 20
Mean 0.005821
Std Dev 1.269

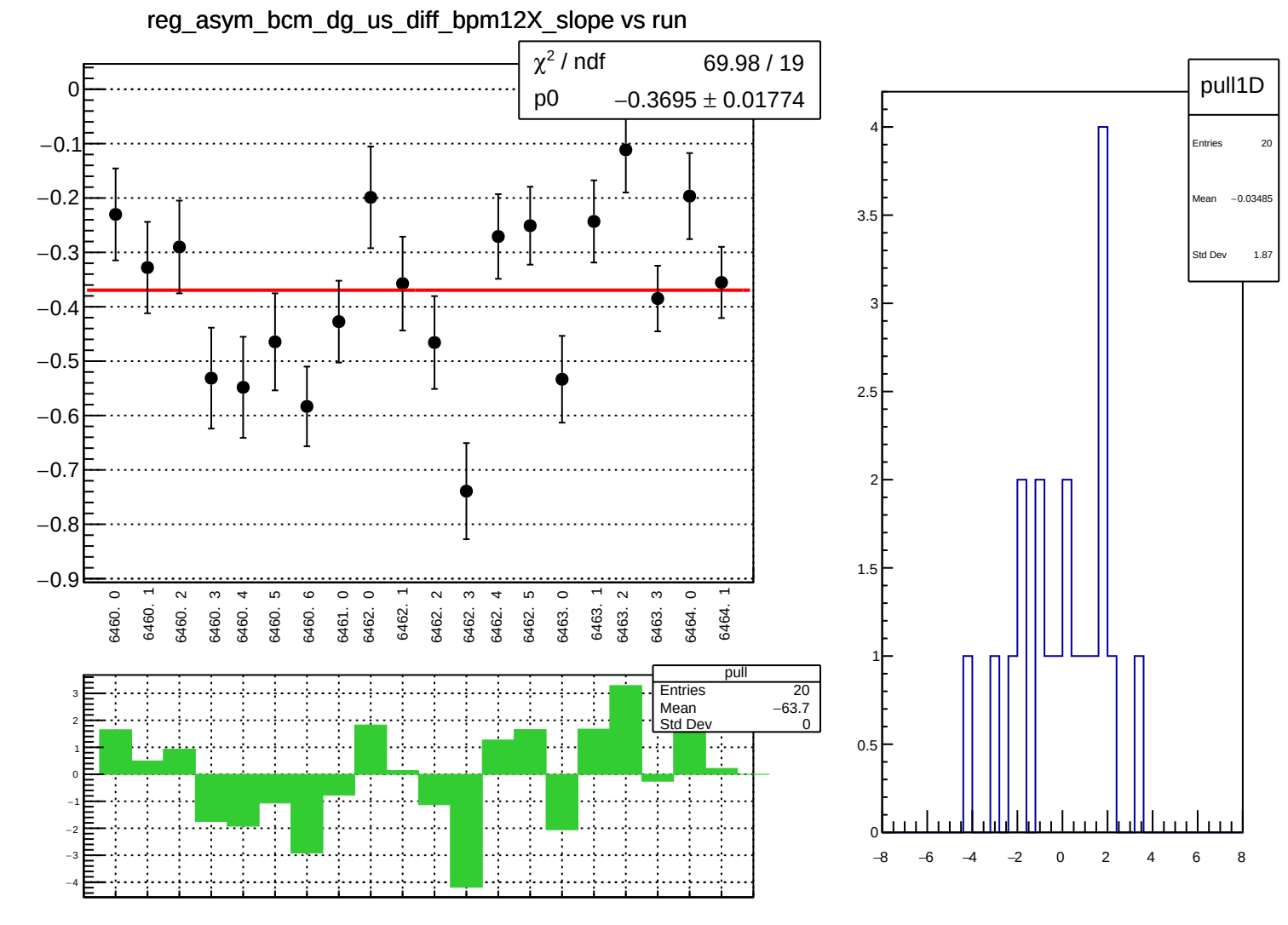

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 160.2 / 19
p0 23.59 ± 0.3591
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.3
Std Dev 0
6
4
2
0
−2
−4

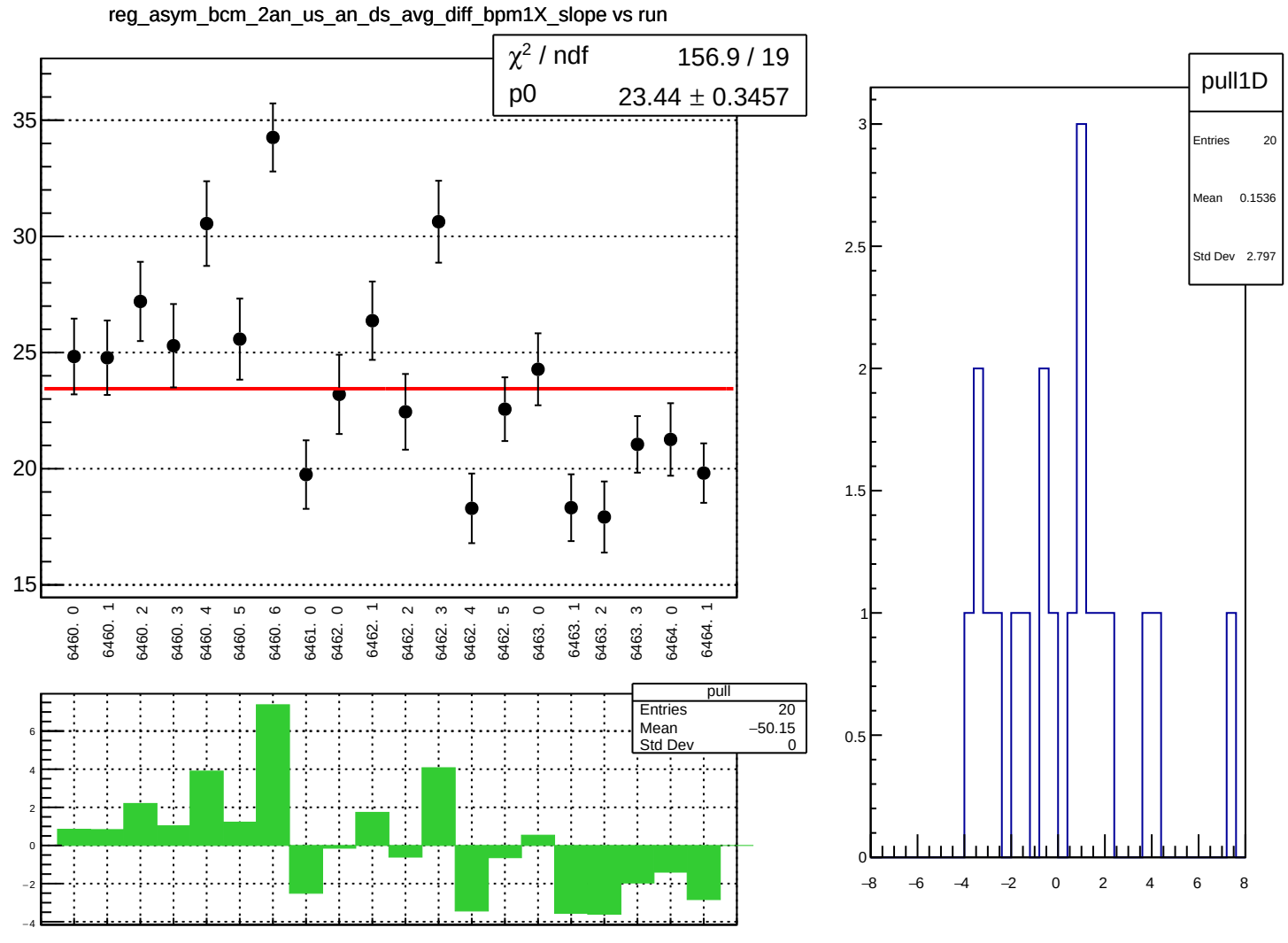

pull1D
Entries 20
Mean 0.1507
Std Dev 2.827
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

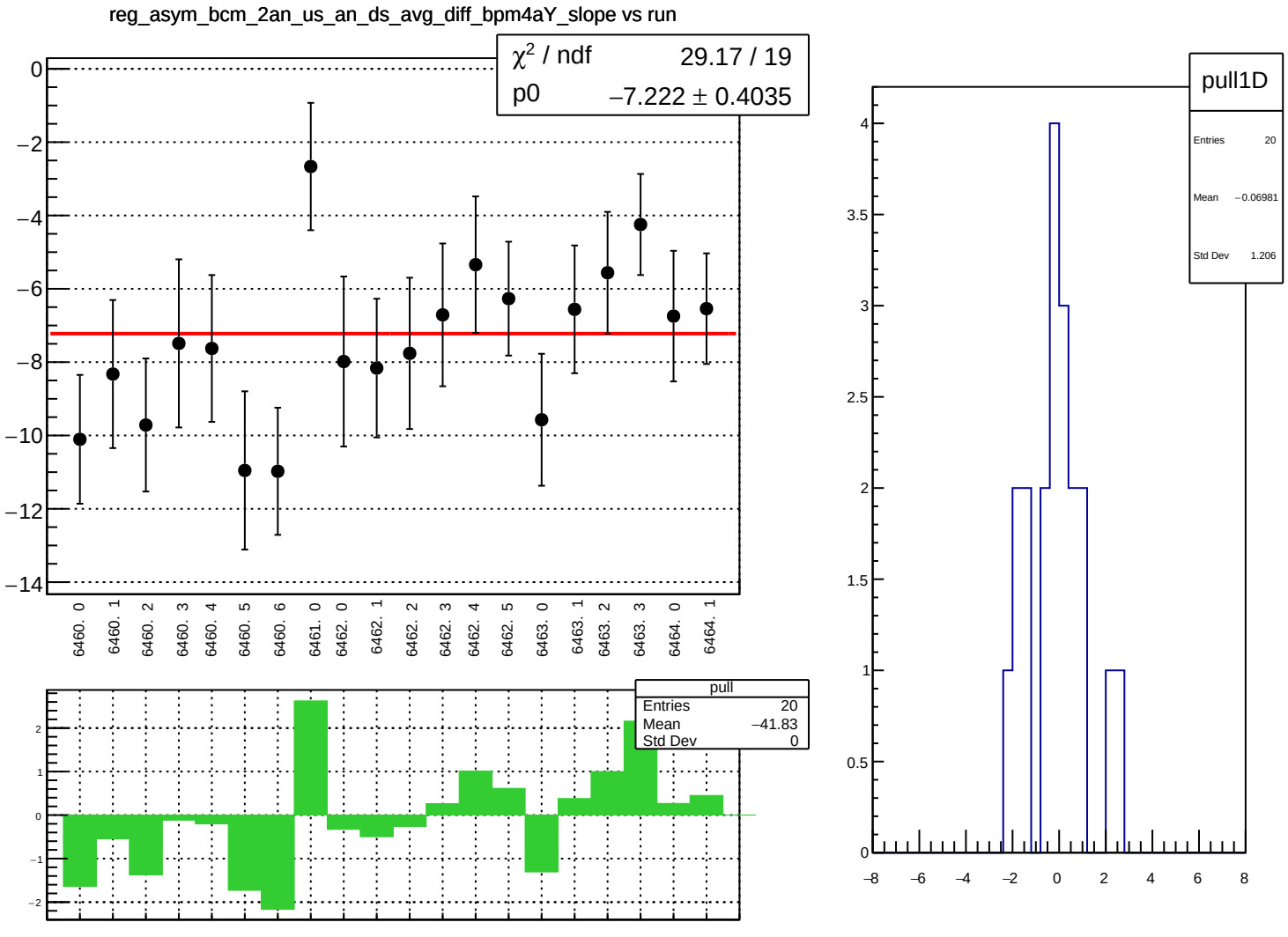

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 28.46 / 19
p0 −6.906 ± 0.4192
0
−2
−4
−6
−8
−10
−12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −40.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.07361
Std Dev 1.191
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

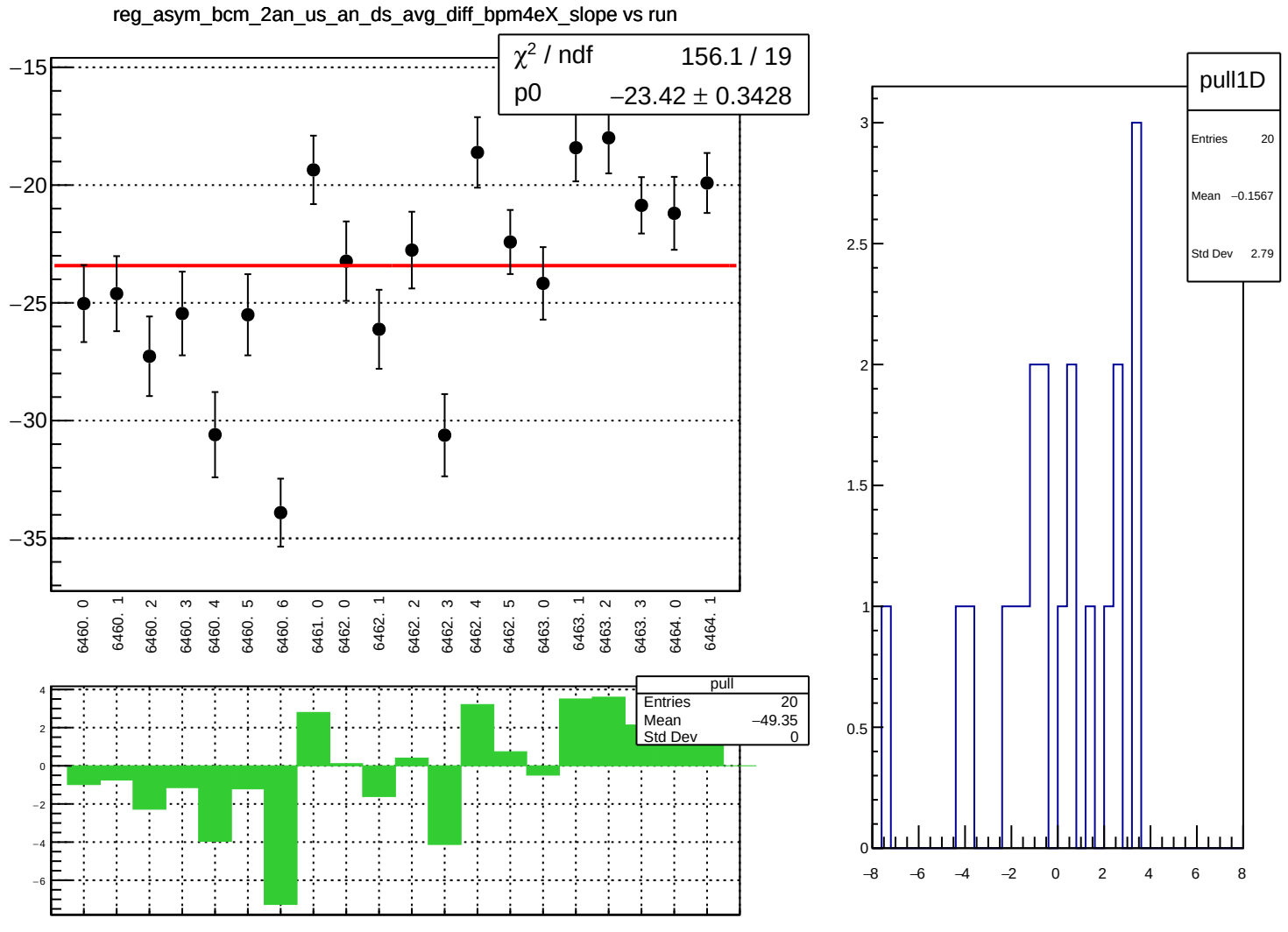

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 159.1 / 19
p0 −23.55 ± 0.3561
−15
−20
−25
−30
−35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.42
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 20
Mean −0.1543
Std Dev 2.816
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

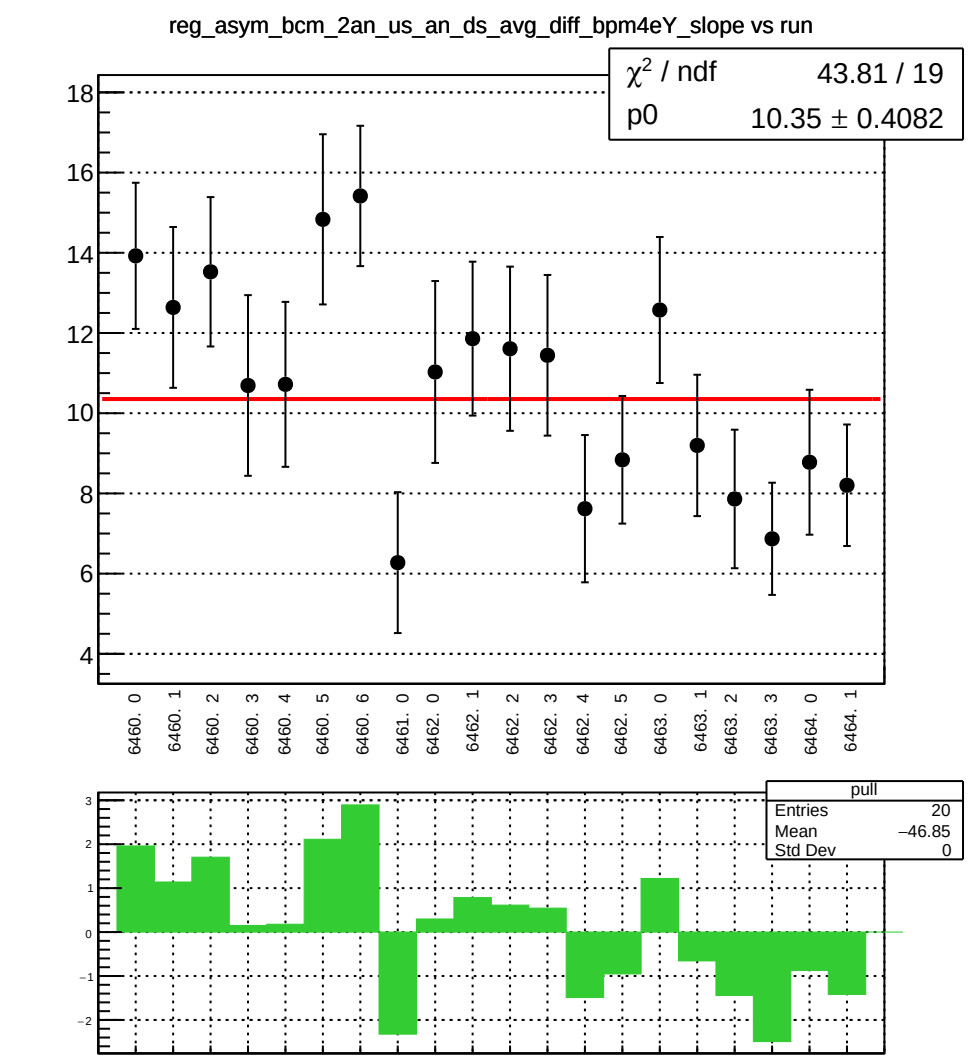

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 43.91 / 19
p0 10.06 ± 0.424
16
14
12
10
8
6
4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −45.24
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.1028
Std Dev 1.478
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

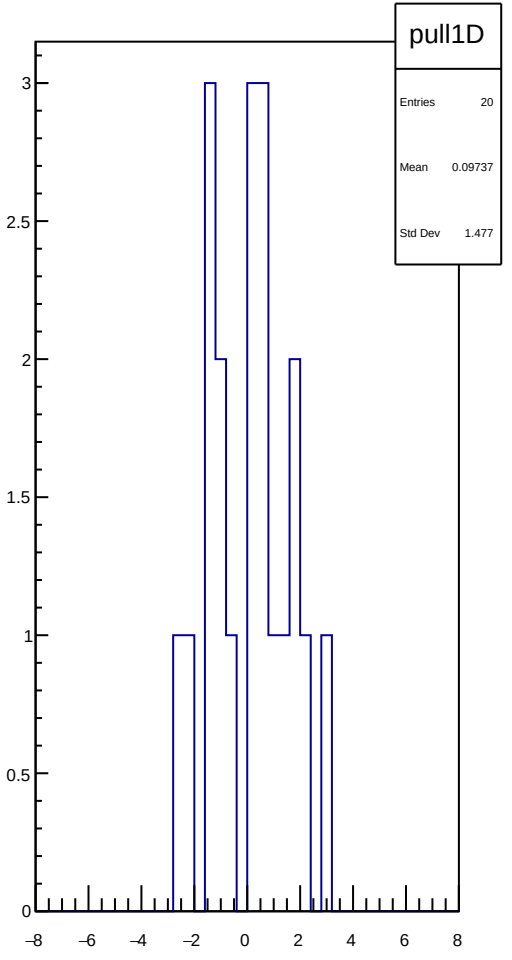

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 69.98 / 19
p0 −0.3695 ± 0.01774
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −63.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 20
Mean −0.03485
Std Dev 1.87
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

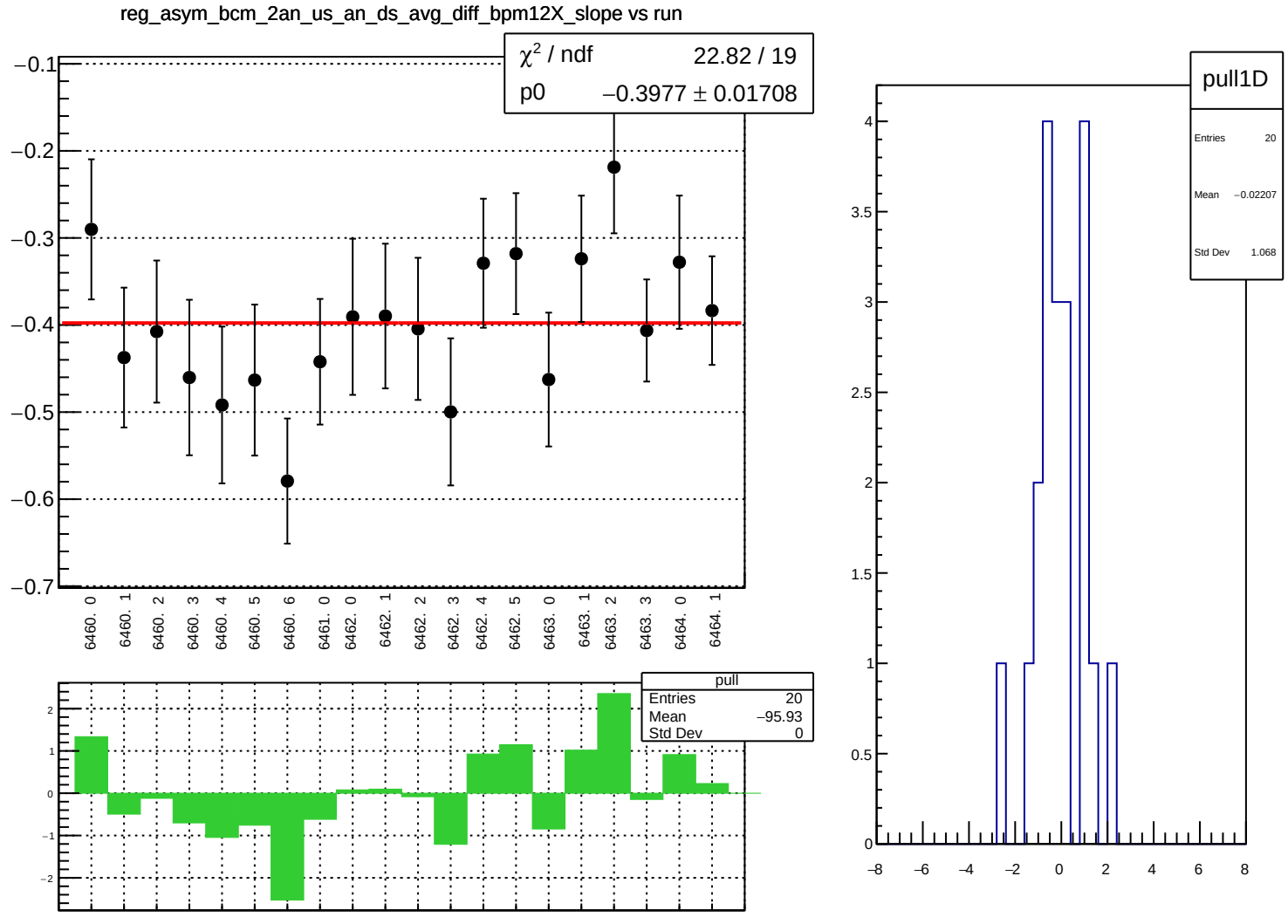

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 156.9 / 19
p0 23.44 ± 0.3457
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −50.15
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 20
Mean 0.1536
Std Dev 2.797
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

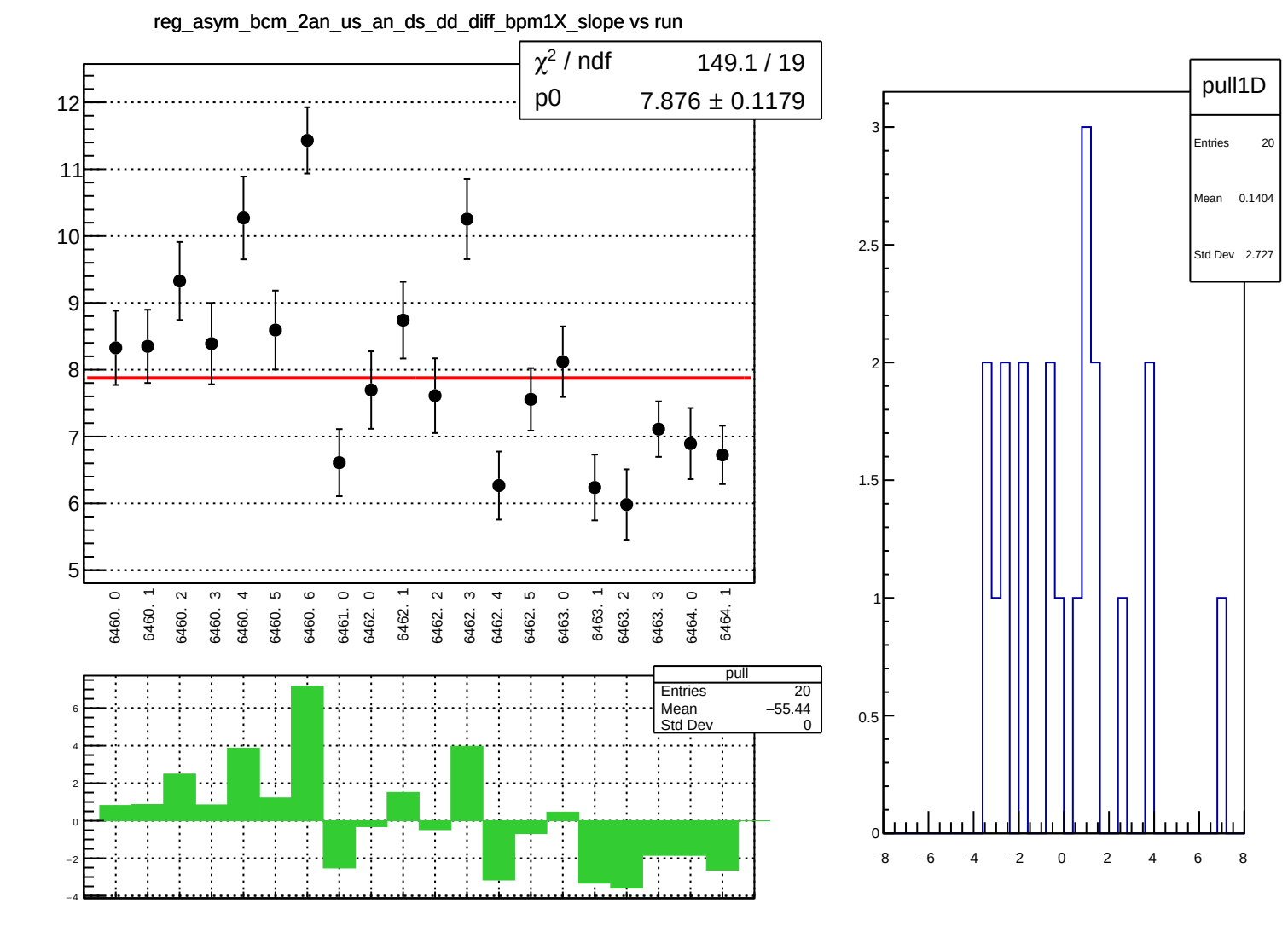

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.17 / 19
p0 −7.222 ± 0.4035
0
−2
−4
−6
−8
−10
−12
−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −41.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.06981
Std Dev 1.206
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

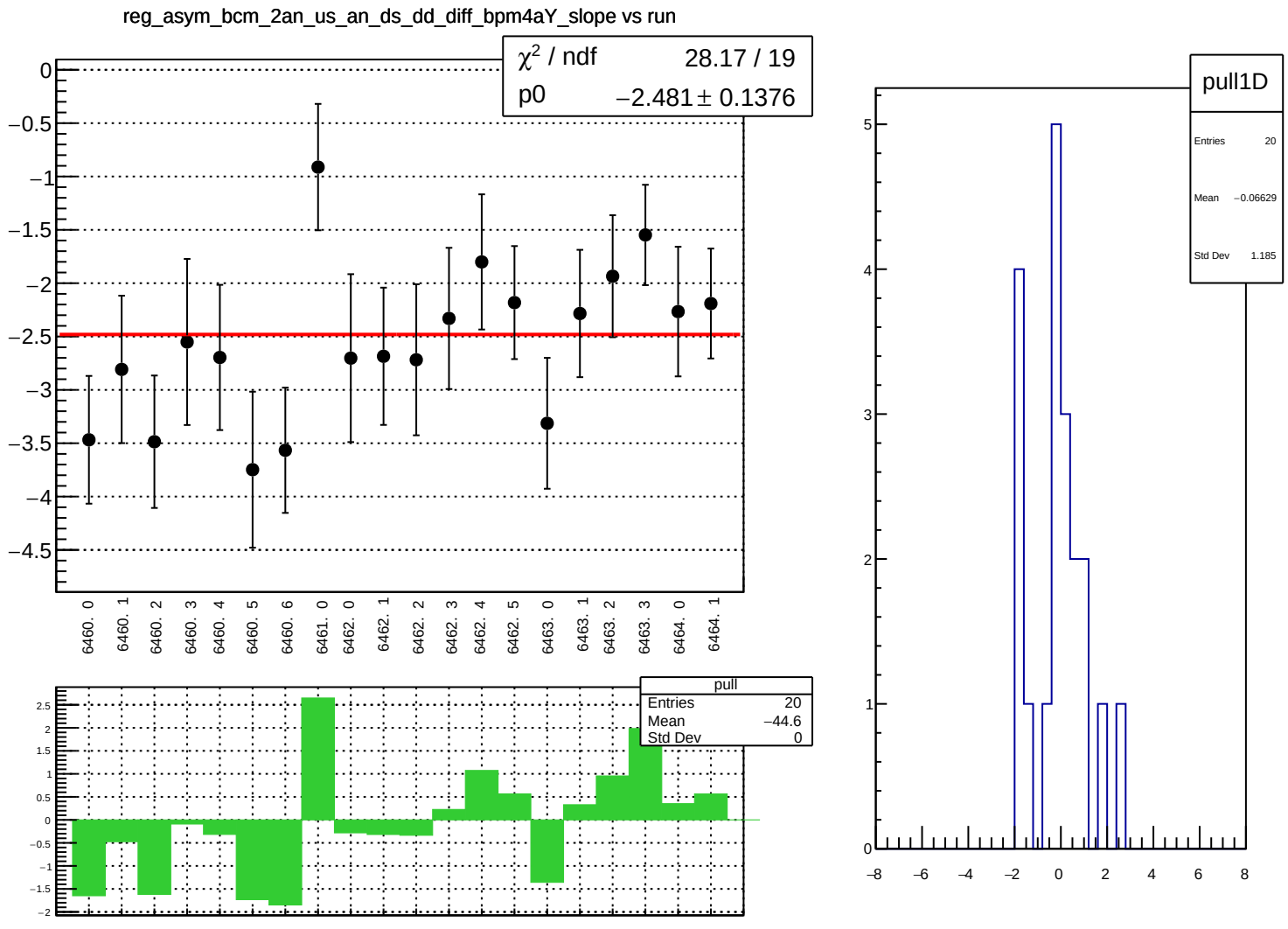

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 156.1 / 19
p0 −23.42 ± 0.3428
−15
−20
−25
−30
−35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.35
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 20
Mean −0.1567
Std Dev 2.79
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

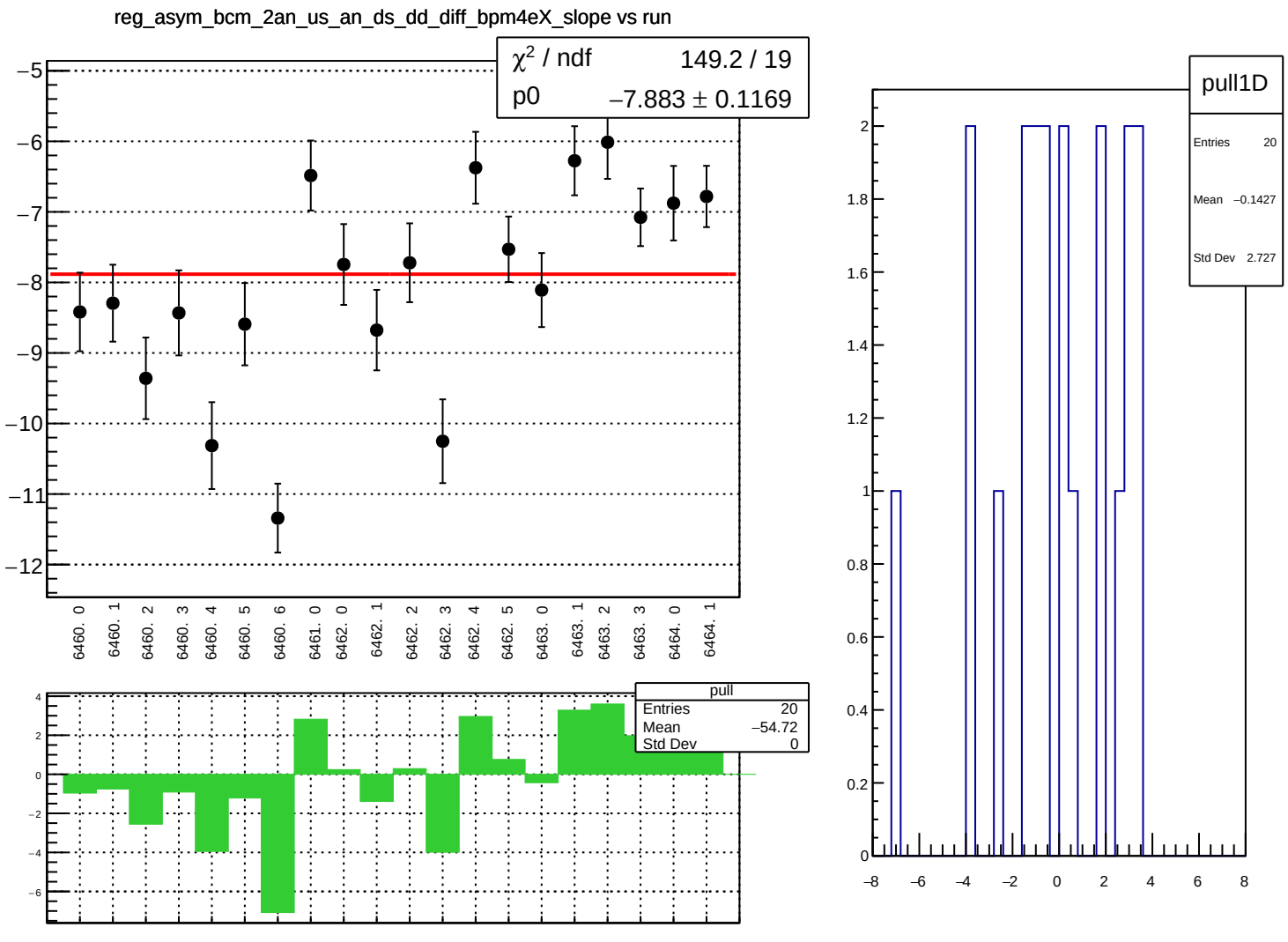

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.81 / 19
p0 10.35 ± 0.4082
18
16
14
12
10
8
6
4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −46.85
Std Dev 0
3
2
1
0
−1
−2

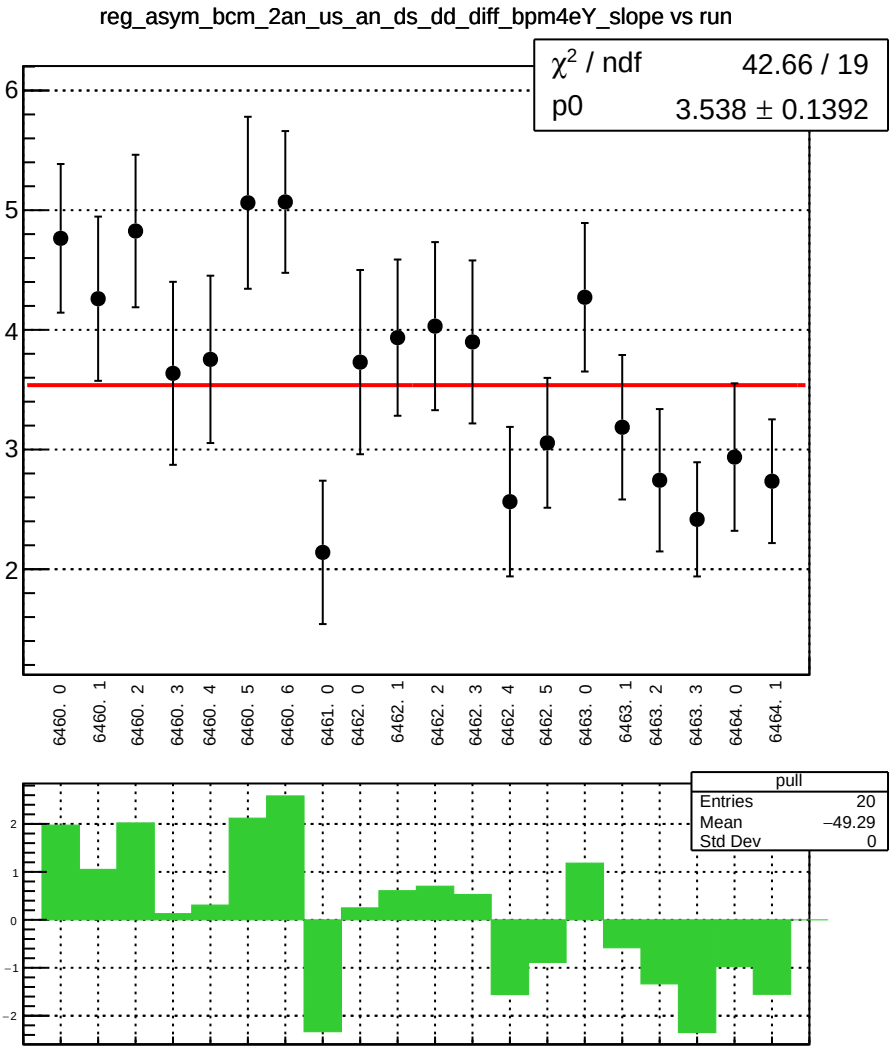

pull1D
Entries 20
Mean 0.09737
Std Dev 1.477
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

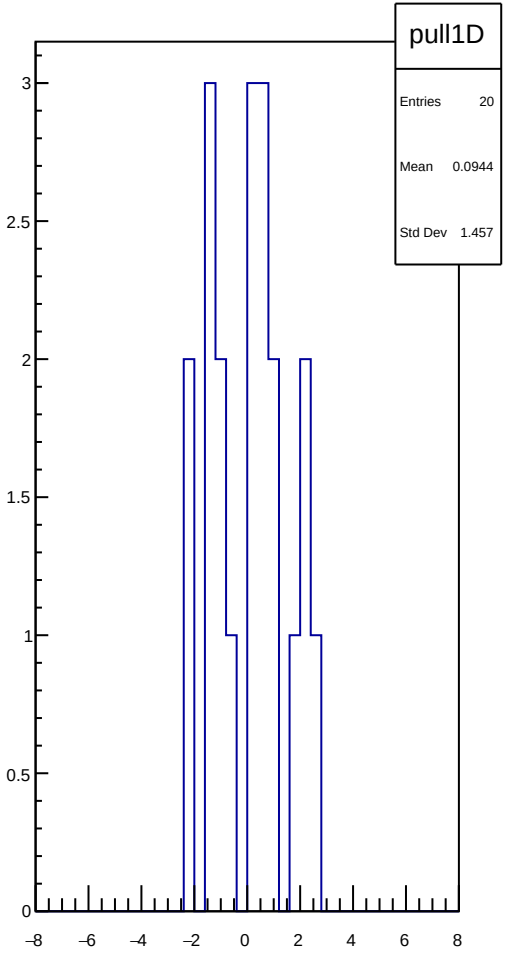

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 22.82 / 19
p0 −0.3977 ± 0.01708
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −95.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.02207
Std Dev 1.068
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

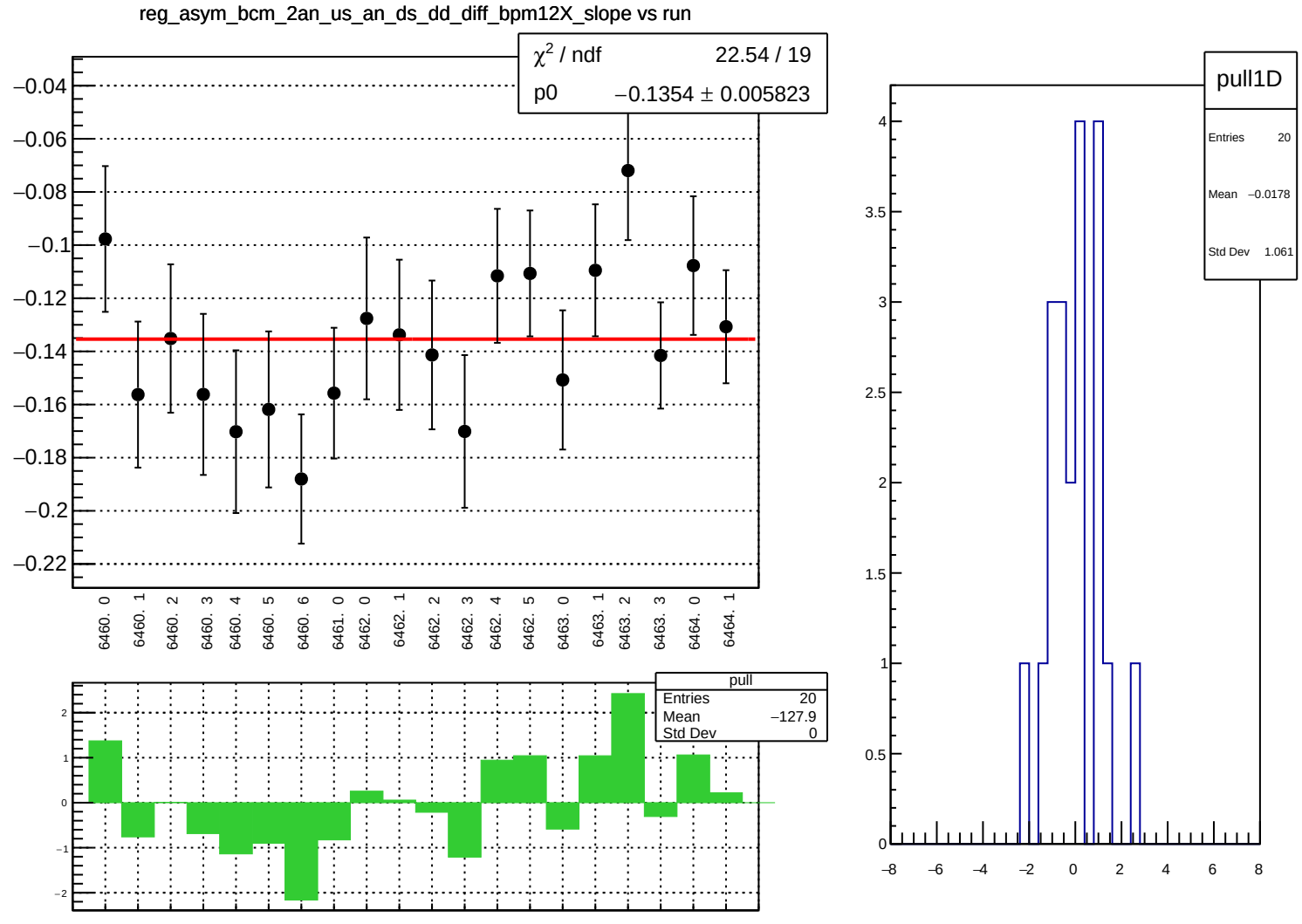

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 149.1 / 19
p0 7.876 ± 0.1179
12
11
10
9
8
7
6
5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −55.44
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 20
Mean 0.1404
Std Dev 2.727
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

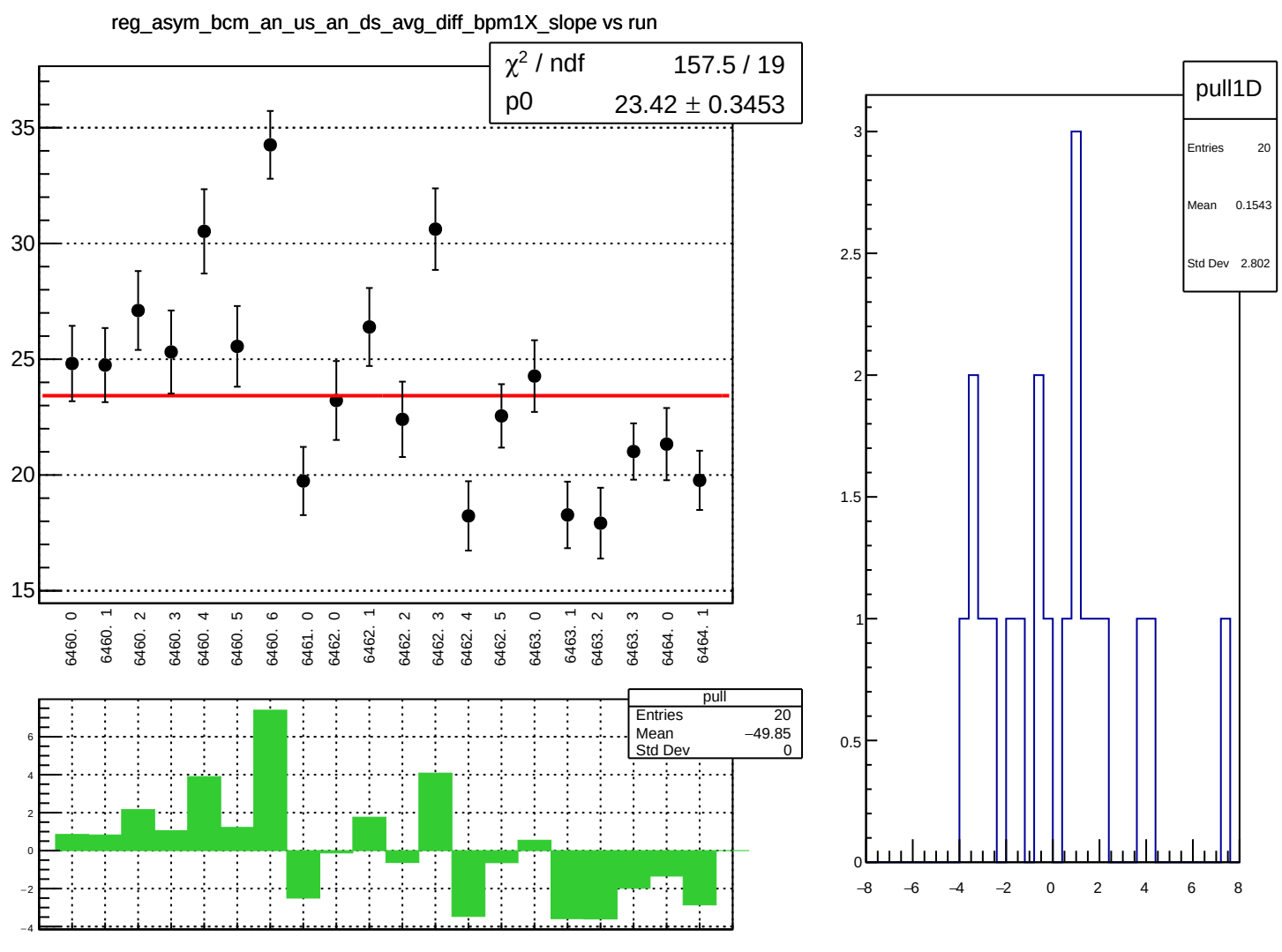

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.17 / 19
p0 −2.481 ± 0.1376
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −44.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.06629
Std Dev 1.185
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

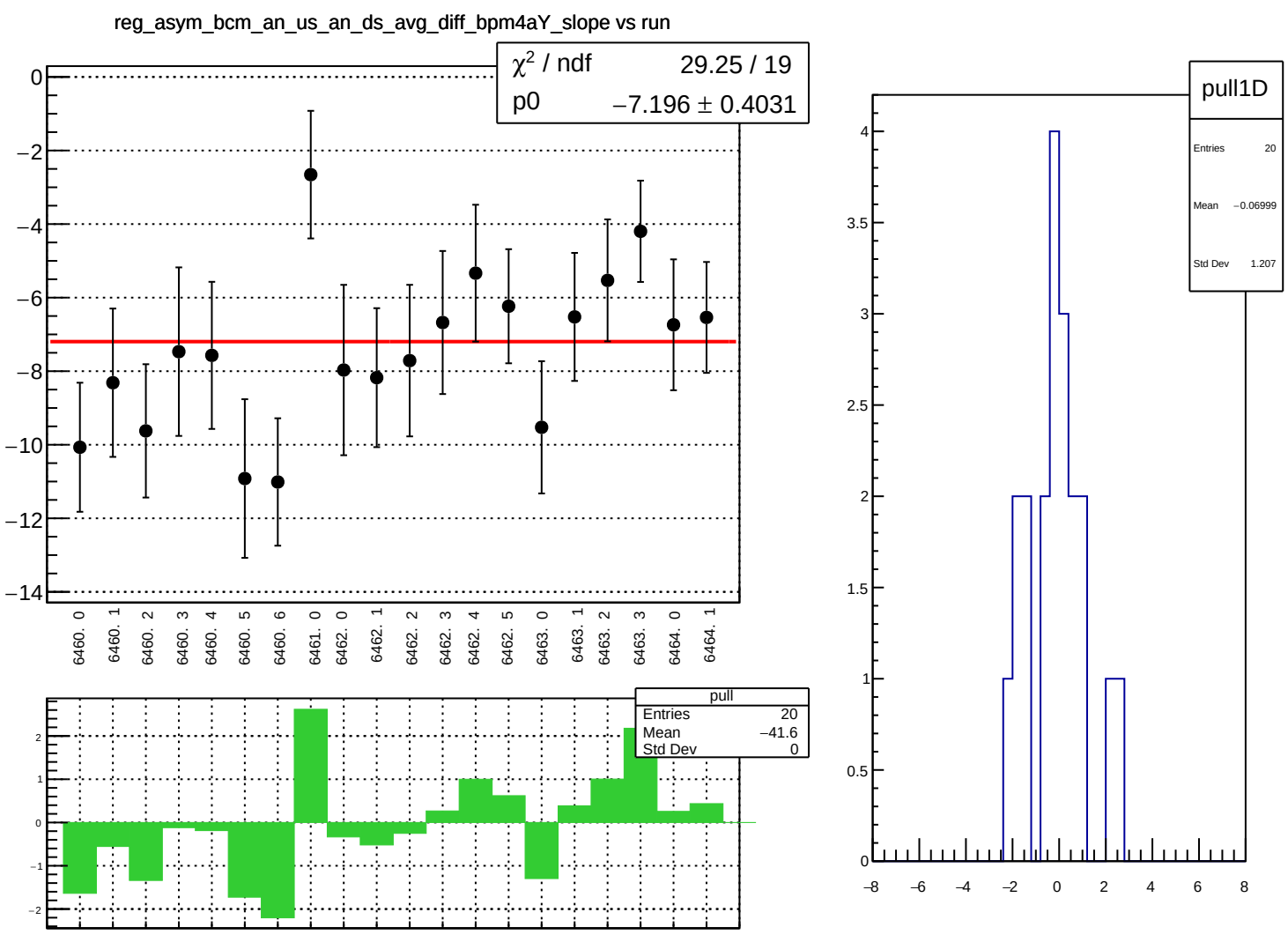

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 149.2 / 19
p0 −7.883 ± 0.1169
−5
−6
−7
−8
−9
−10
−11
−12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −54.72
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 20
Mean −0.1427
Std Dev 2.727
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

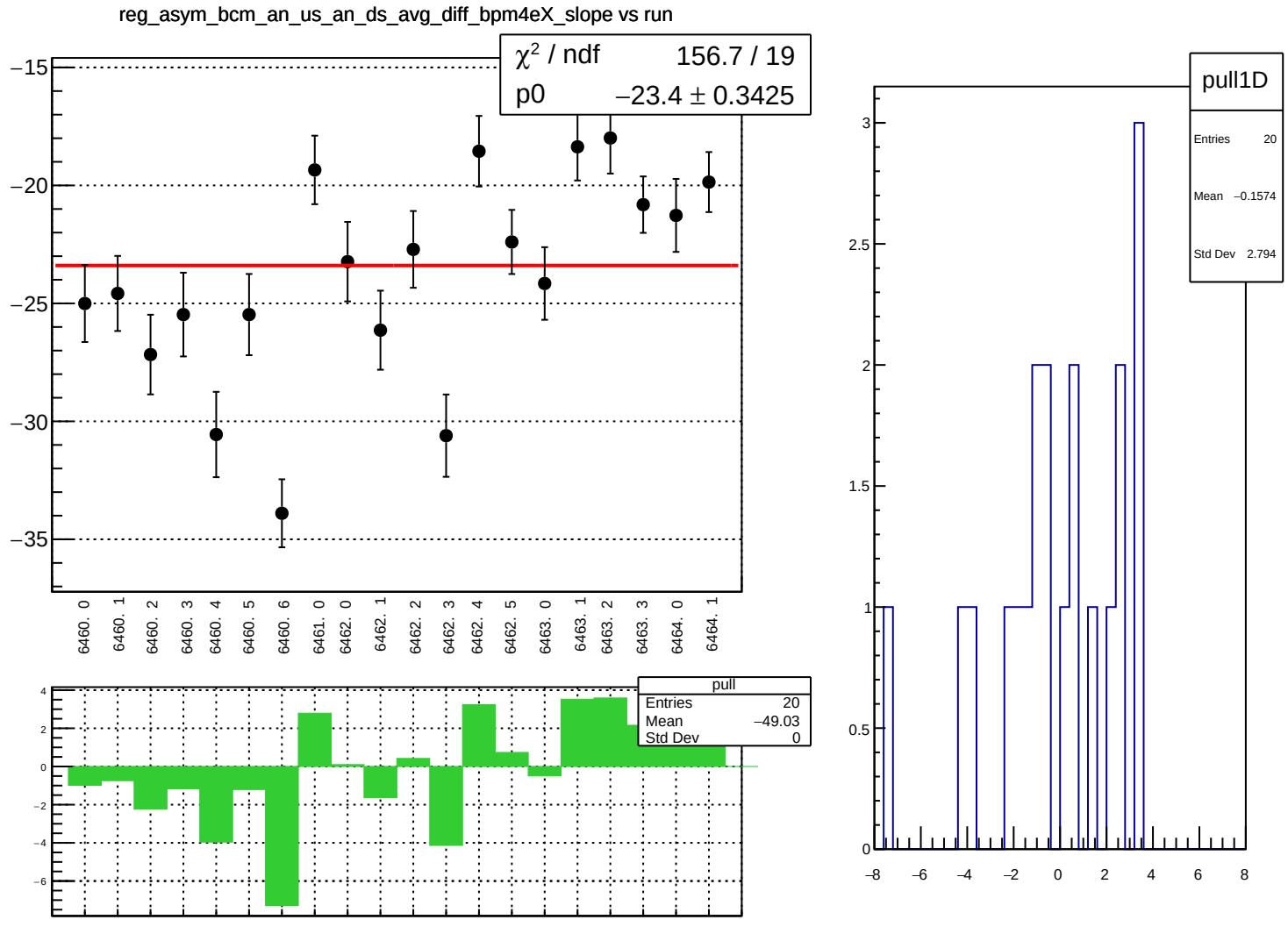

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.66 / 19
p0 3.538 ± 0.1392
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.29
Std Dev 0

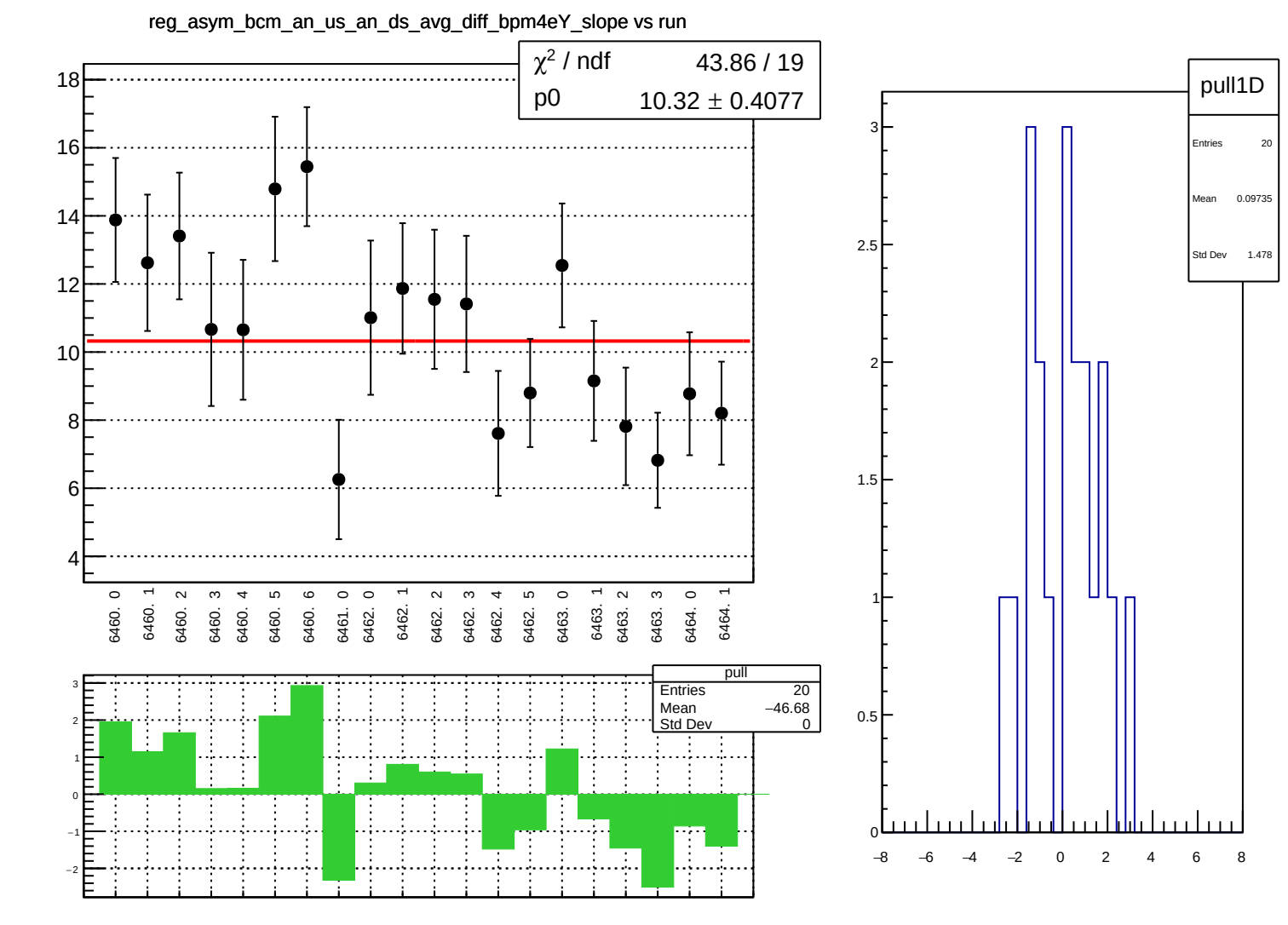

pull1D
Entries 20
Mean 0.0944
Std Dev 1.457

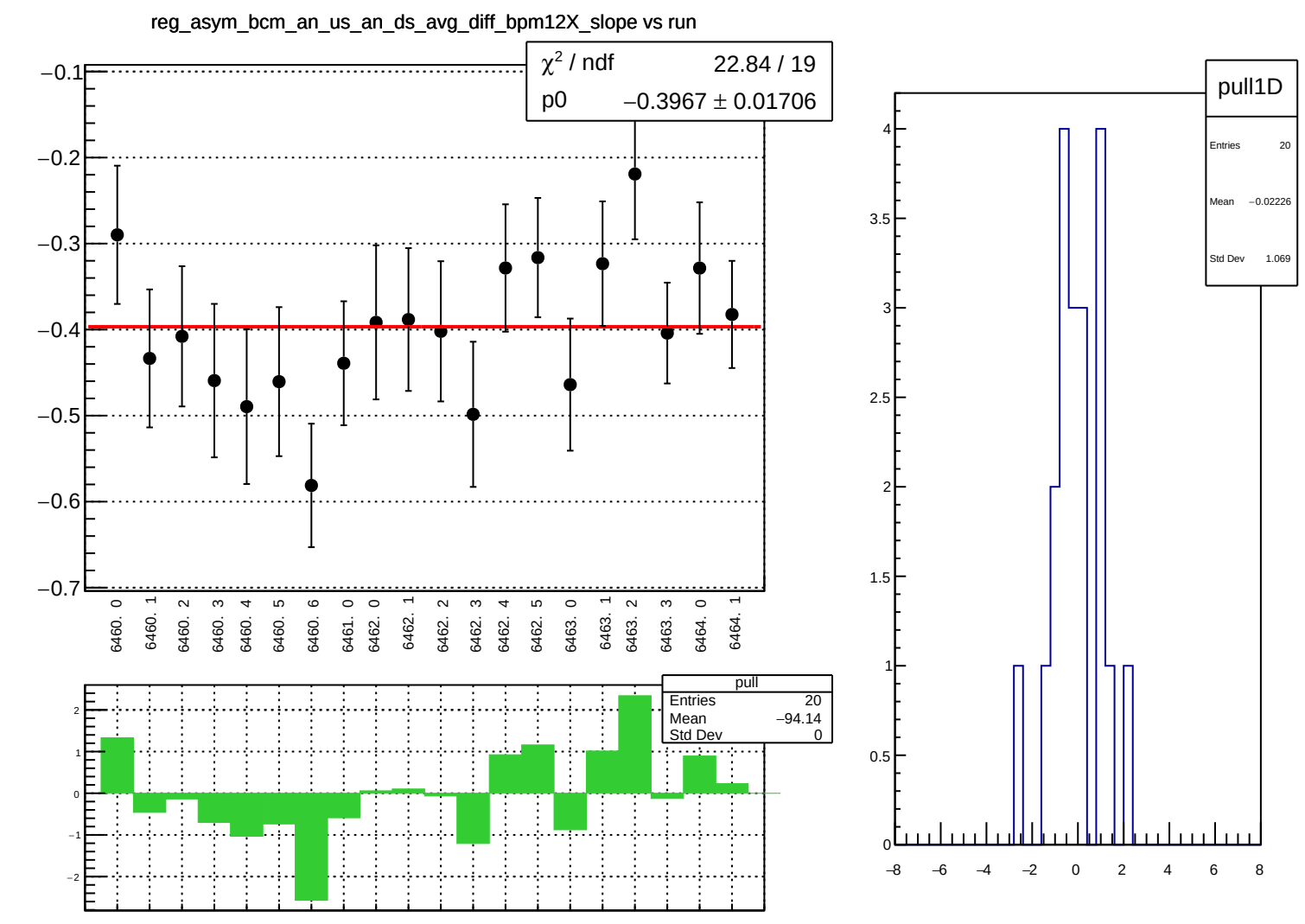

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 22.54 / 19
p0 −0.1354 ± 0.005823
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −127.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.0178
Std Dev 1.061
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

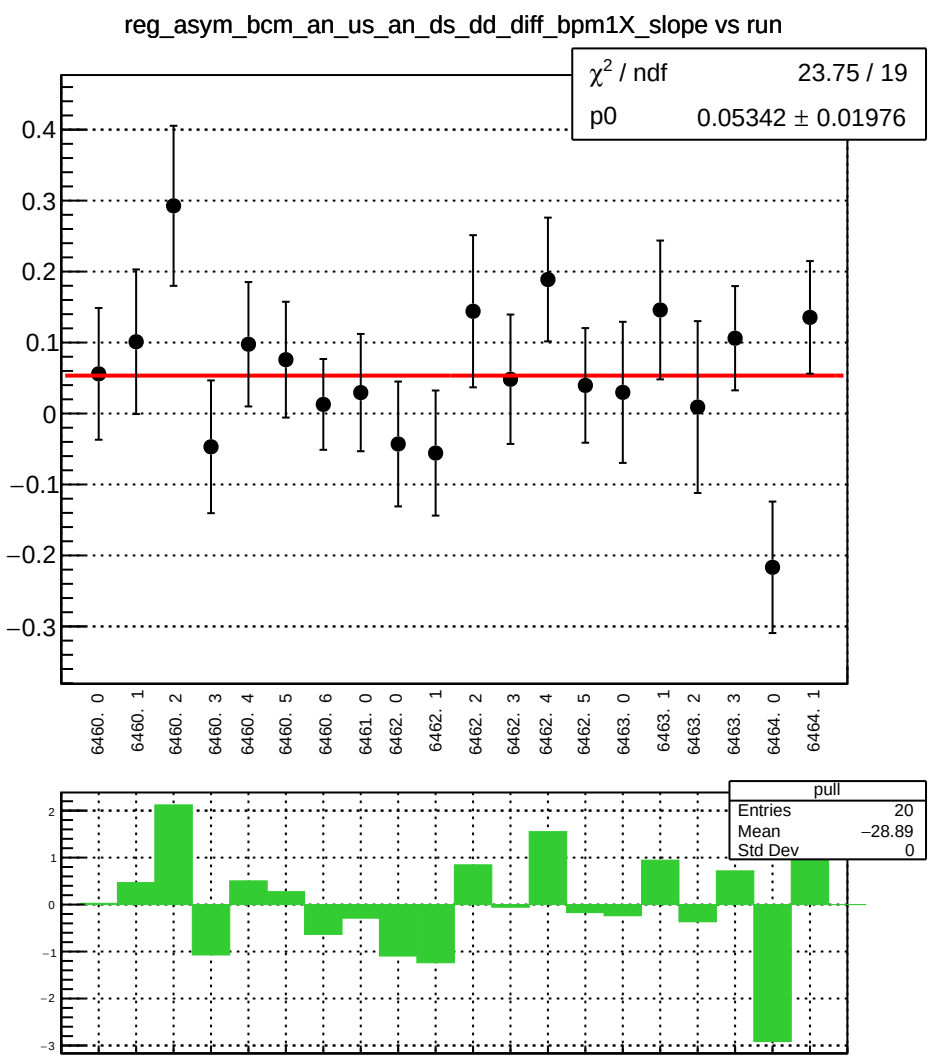

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 157.5 / 19
p0 23.42 ± 0.3453
35
30
25
20
15
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.85
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 20
Mean 0.1543
Std Dev 2.802
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

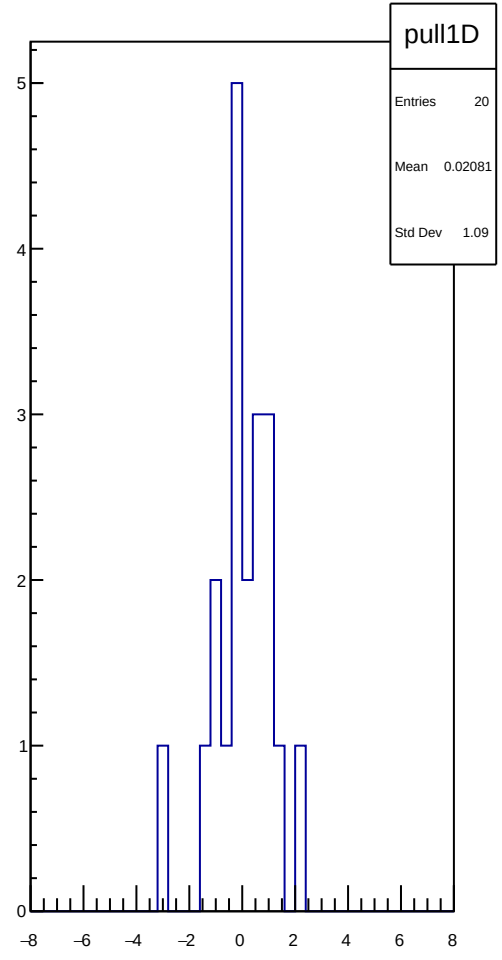

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.25 / 19
p0 −7.196 ± 0.4031
0
−2
−4
−6
−8
−10
−12
−14
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −41.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.06999
Std Dev 1.207
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

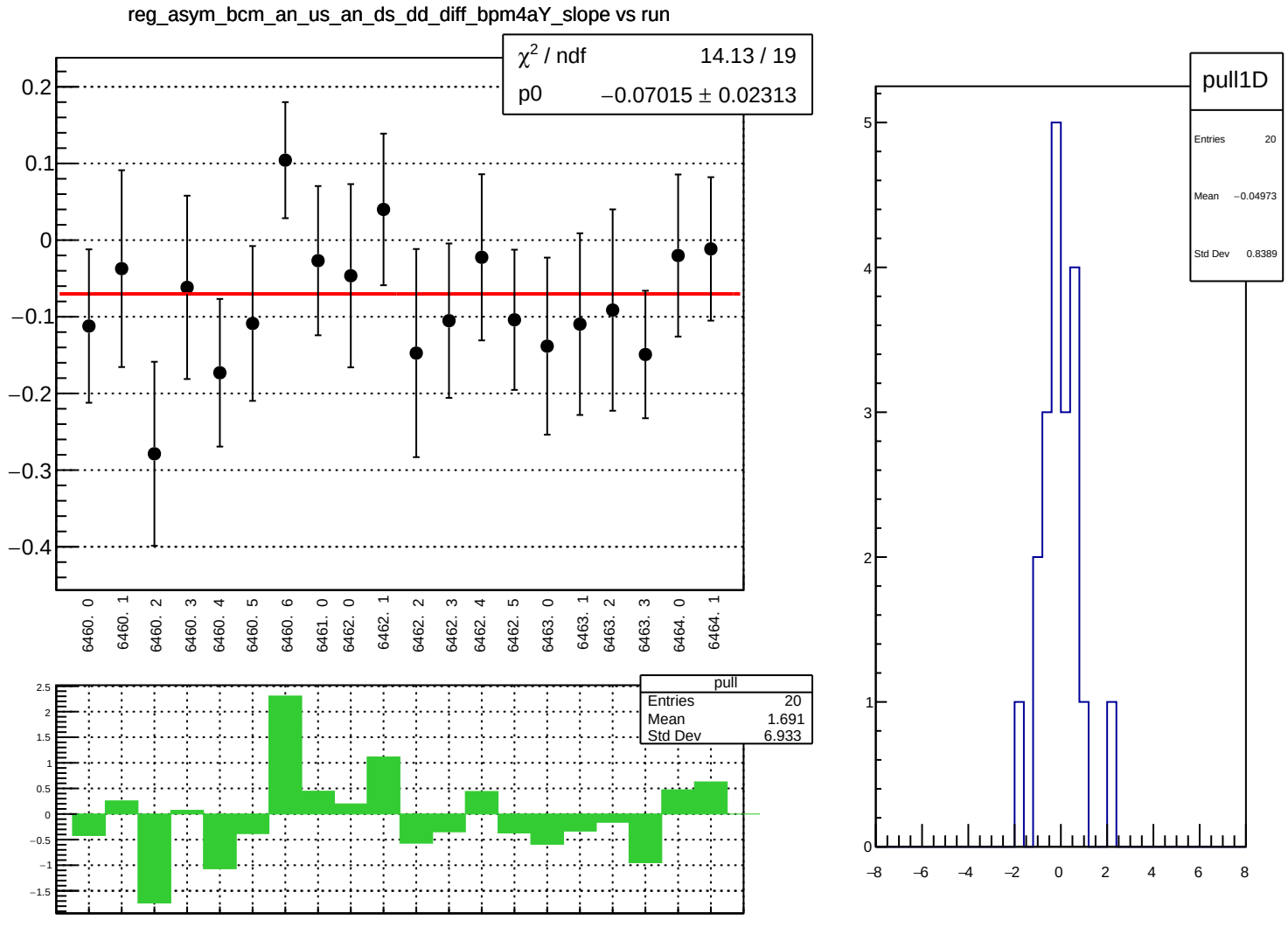

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 156.7 / 19
p0 −23.4 ± 0.3425
−15
−20
−25
−30
−35
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −49.03
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 20
Mean −0.1574
Std Dev 2.794
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

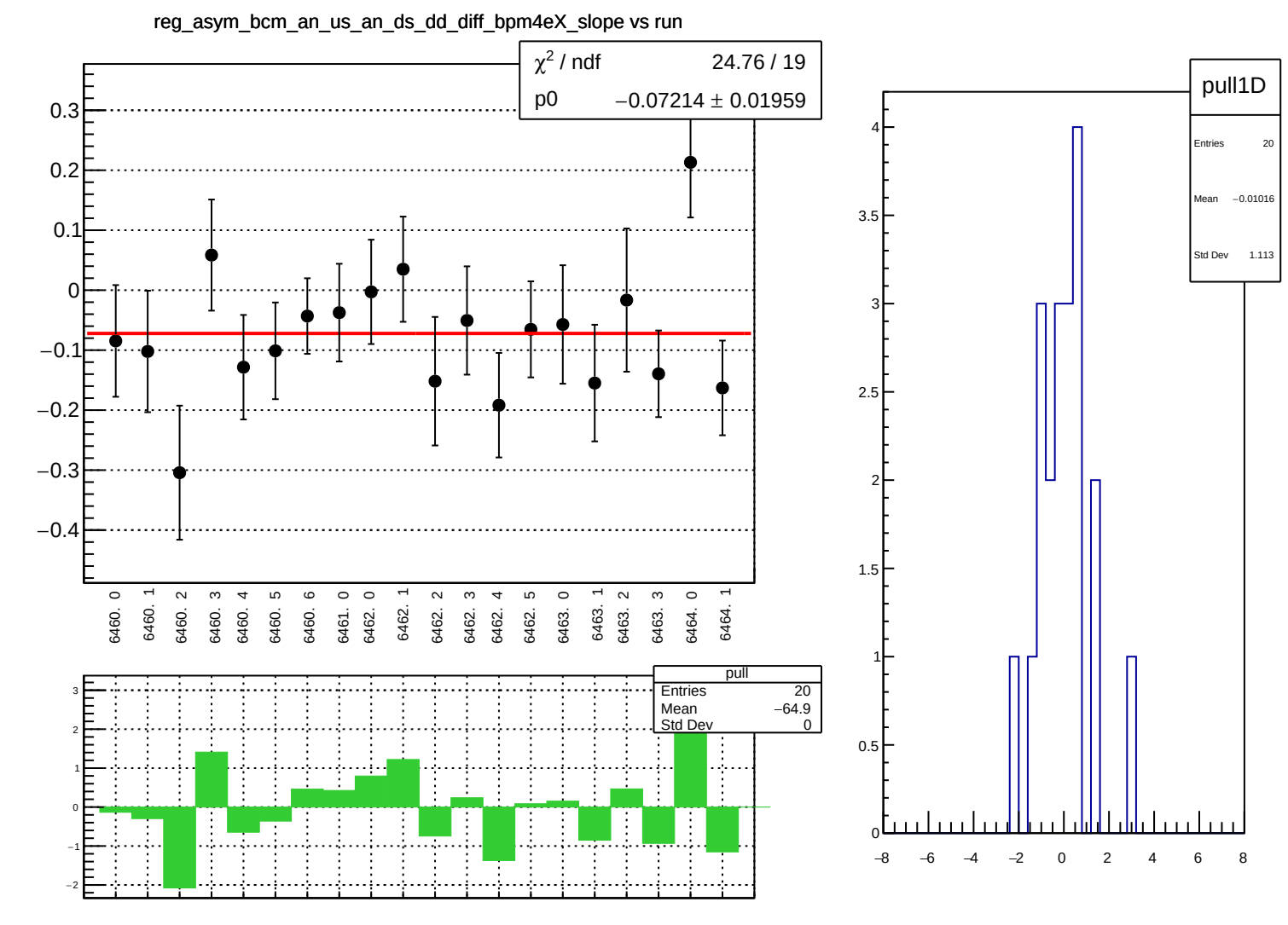

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.86 / 19
p0 10.32 ± 0.4077
18
16
14
12
10
8
6
4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −46.68
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 20
Mean 0.09735
Std Dev 1.478
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

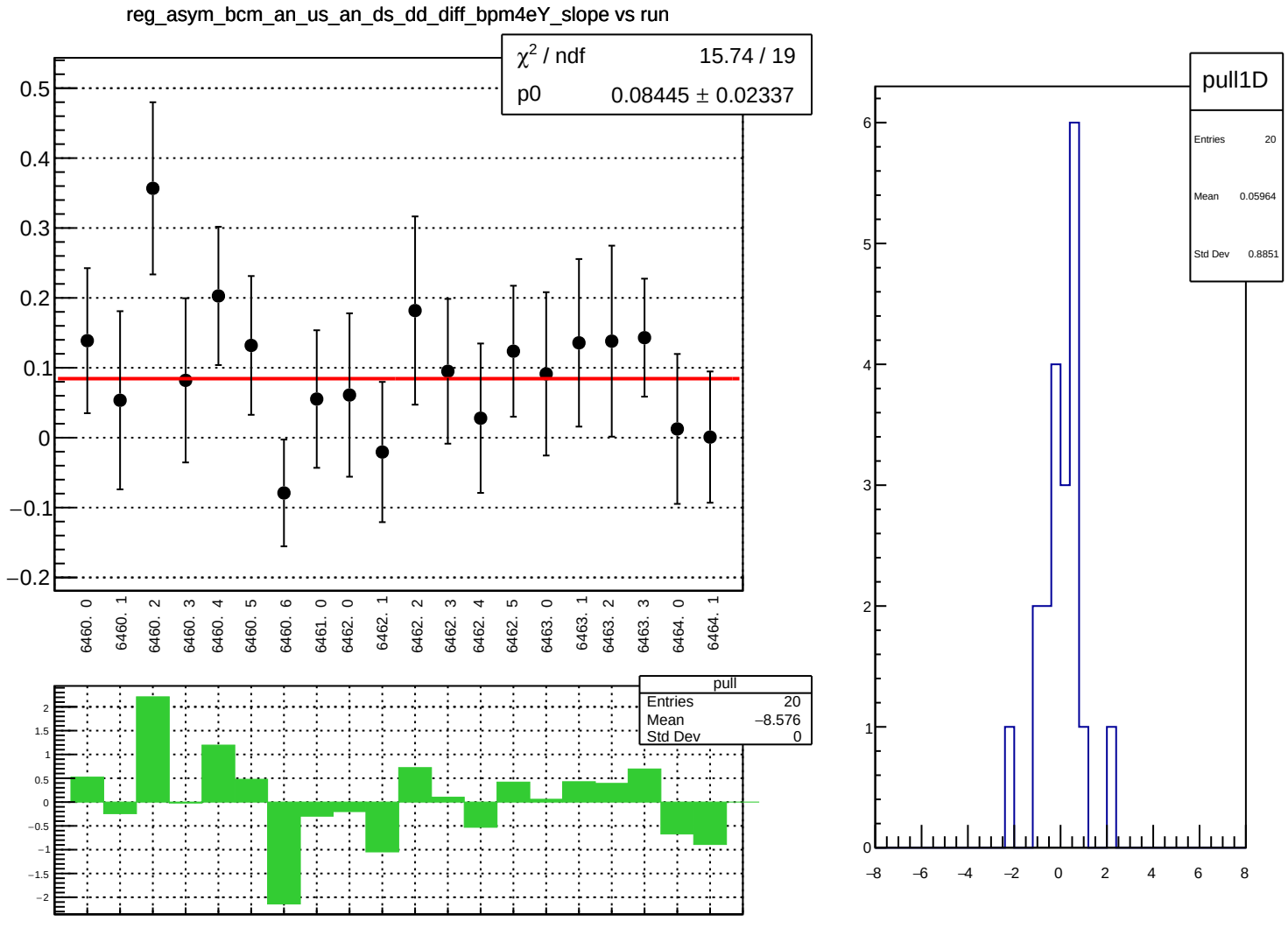

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 22.84 / 19
p0 −0.3967 ± 0.01706
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −94.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.02226
Std Dev 1.069
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

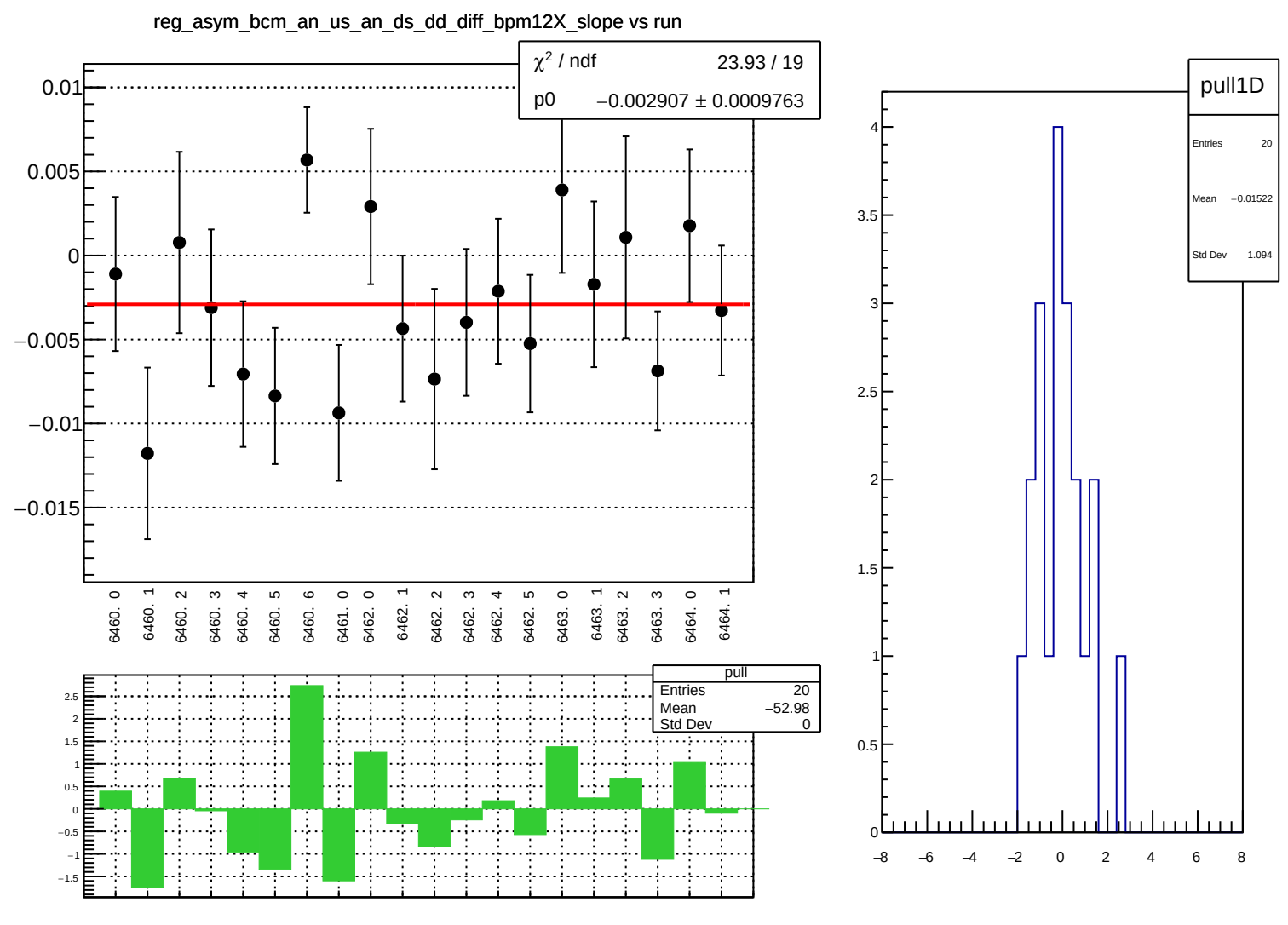

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 23.75 / 19
p0 0.05342 ± 0.01976
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −28.89
Std Dev 0
2
1
0
−1
−2
−3

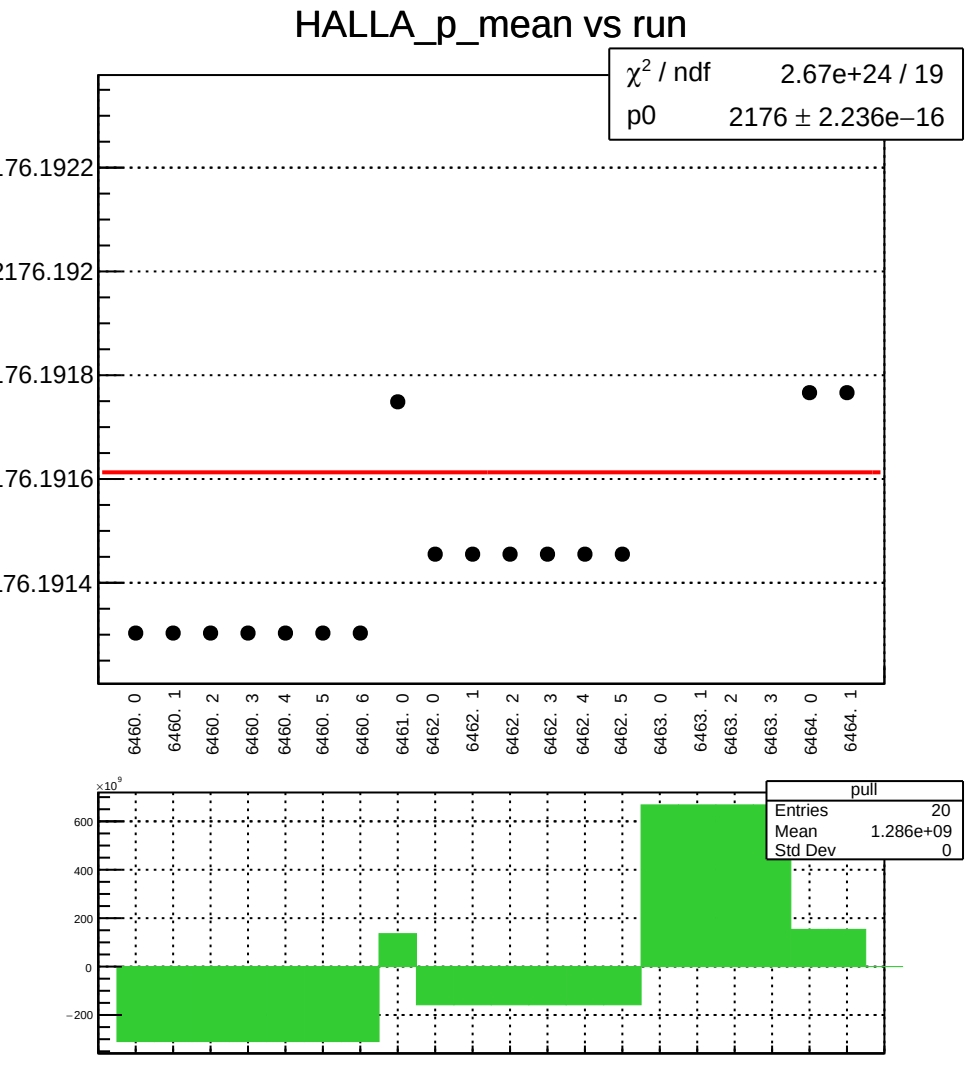

pull1D
Entries 20
Mean 0.02081
Std Dev 1.09
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

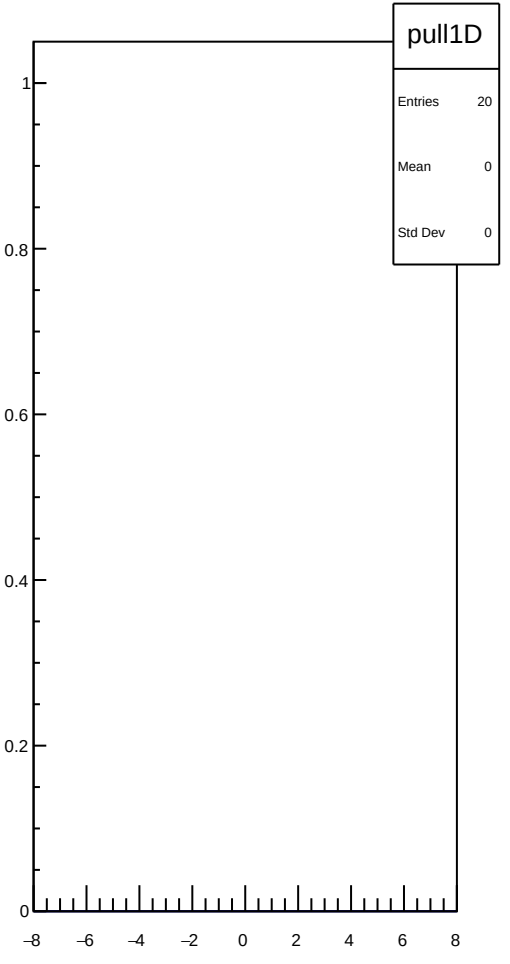

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.13 / 19
p0 −0.07015 ± 0.02313
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 1.691
Std Dev 6.933
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.04973
Std Dev 0.8389
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

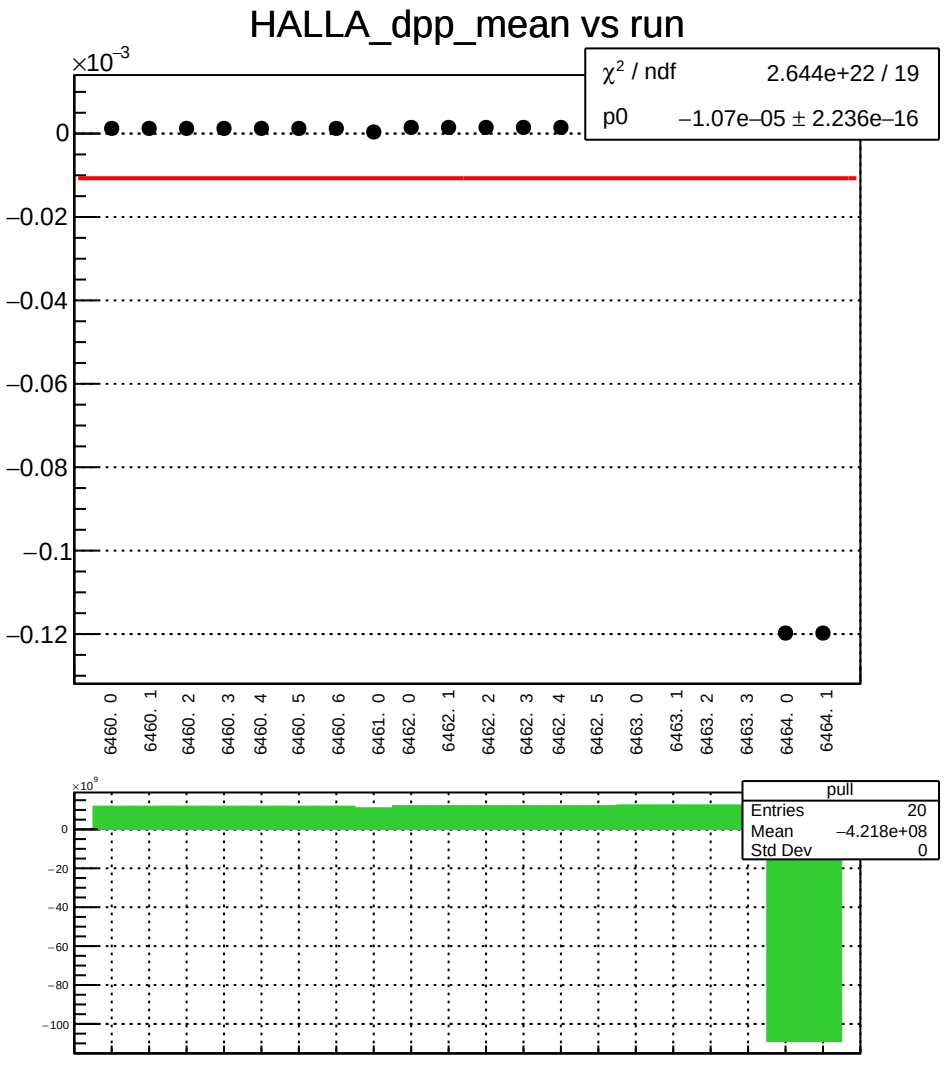

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.76 / 19
p0 −0.07214 ± 0.01959
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −64.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 20
Mean −0.01016
Std Dev 1.113
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

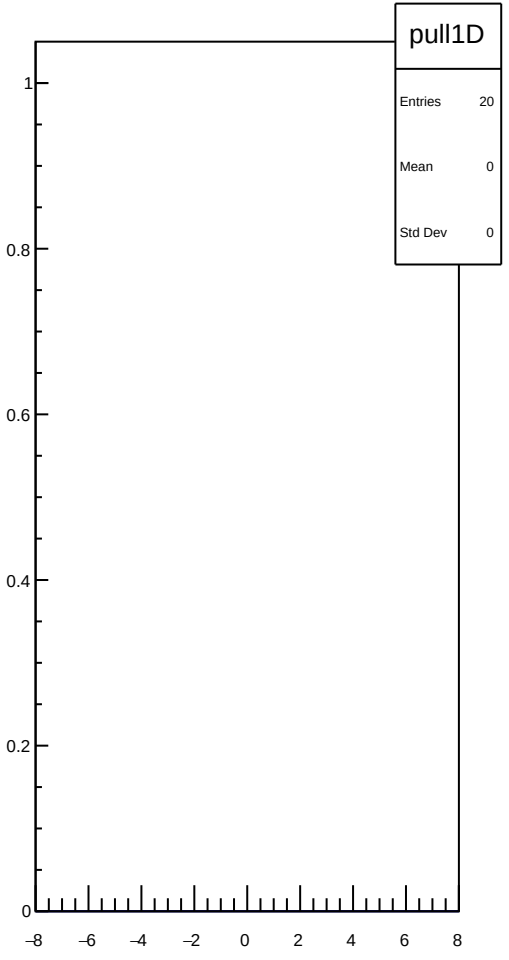

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.74 / 19
p0 0.08445 ± 0.02337
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −8.576
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.05964
Std Dev 0.8851
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

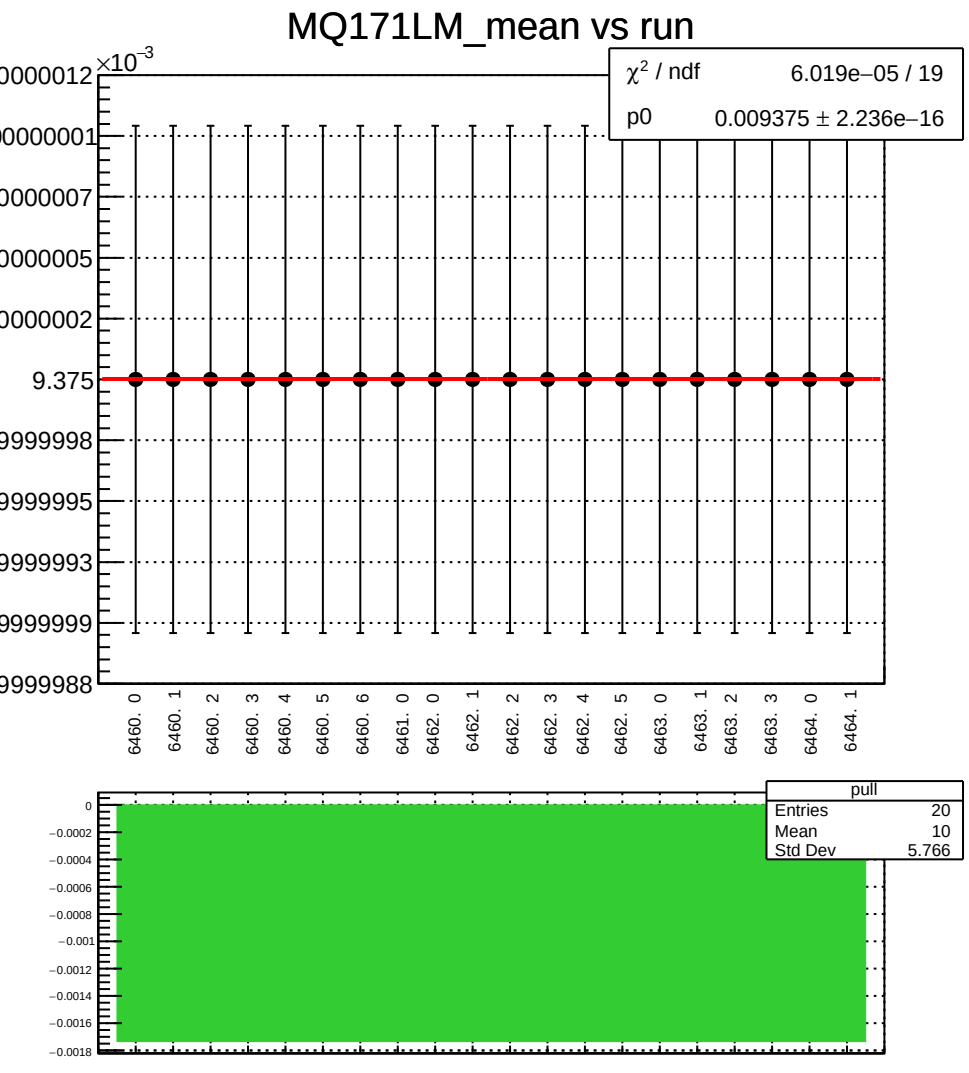

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 23.93 / 19
p0 −0.002907 ± 0.0009763
0.01
0.005
0
−0.005
−0.01
−0.015
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −52.98
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.01522
Std Dev 1.094
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

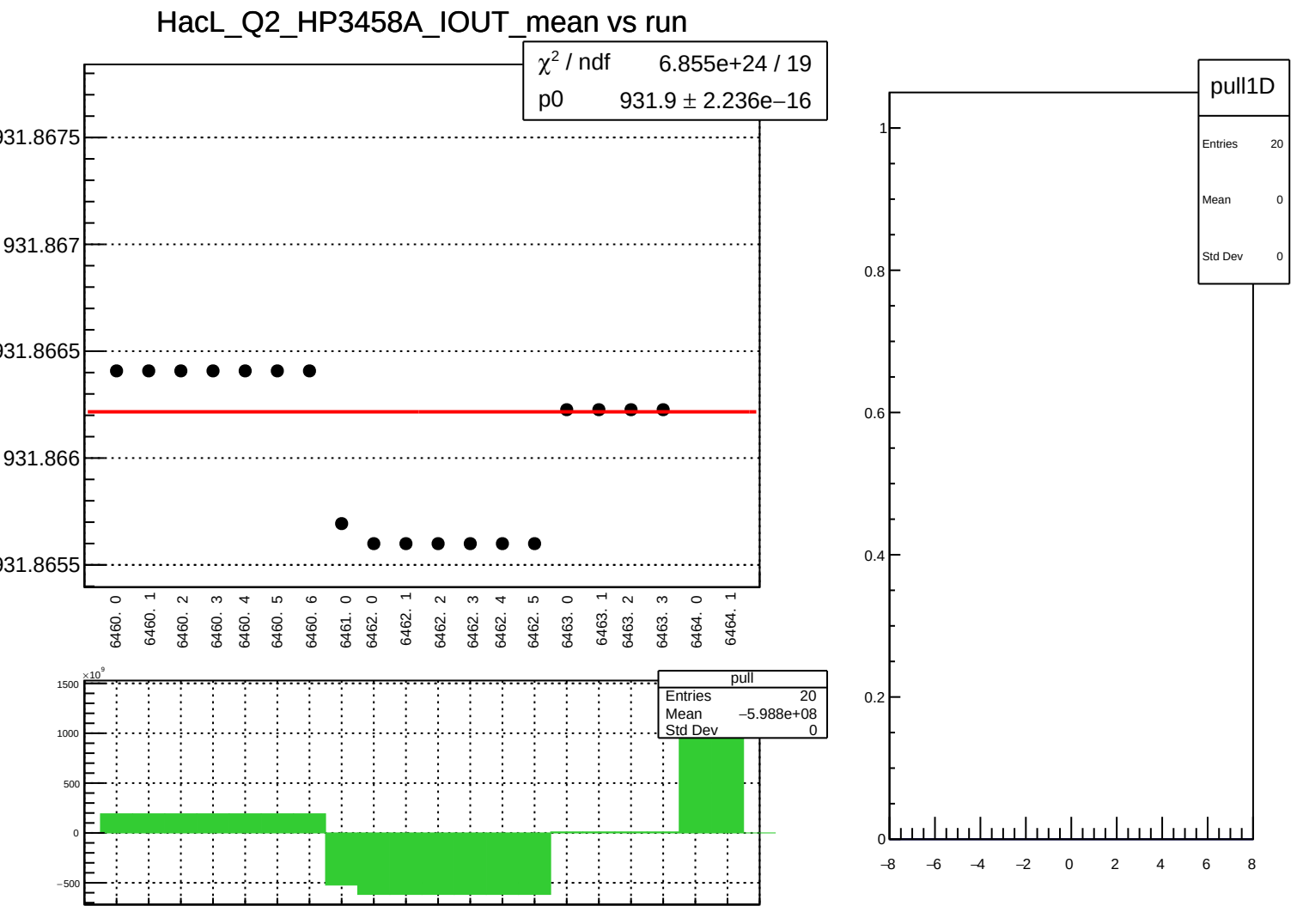

HALLA_p_mean vs run
χ² / ndf 2.67e+24 / 19
p0 2176 ± 2.236e−16
176.1922
2176.192
176.1918
176.1916
176.1914
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10⁹
600
400
200
0
−200
pull
Entries 20
Mean 1.286e+09
Std Dev 0

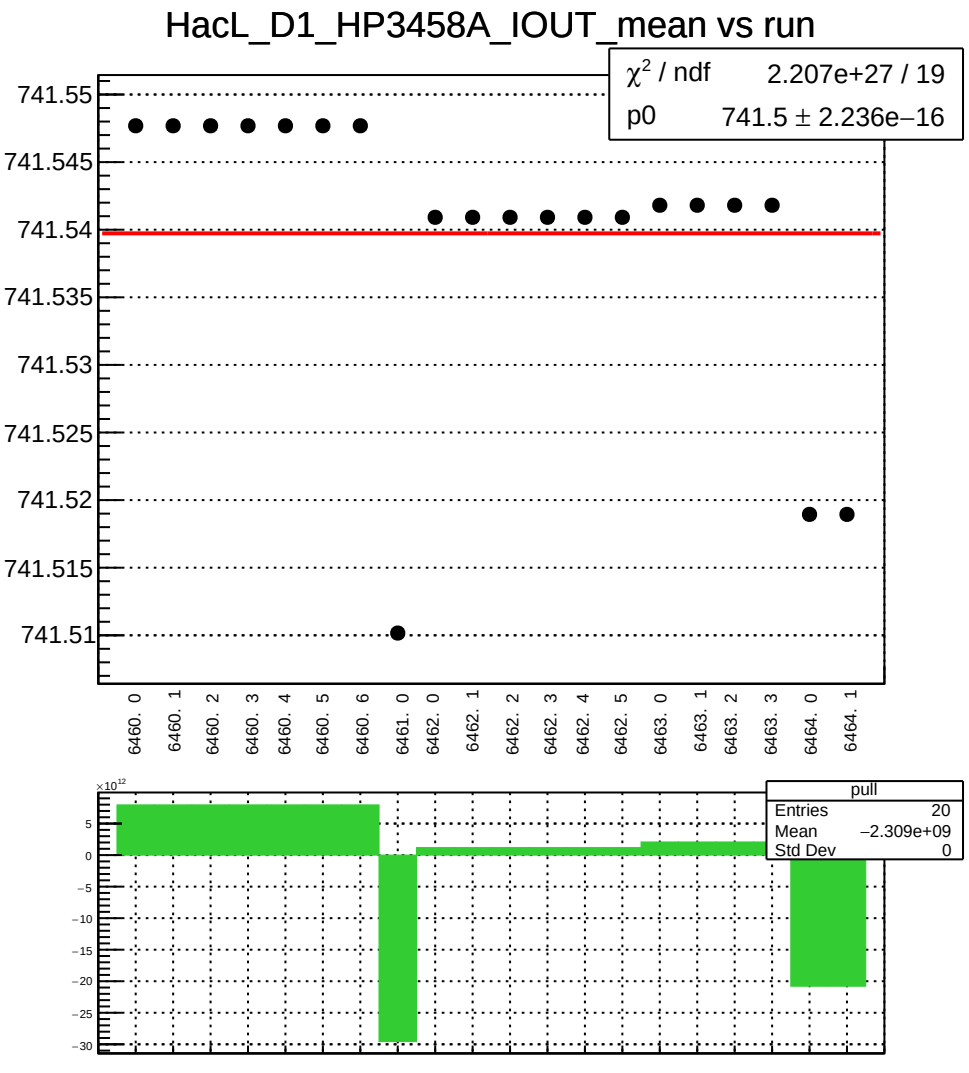

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

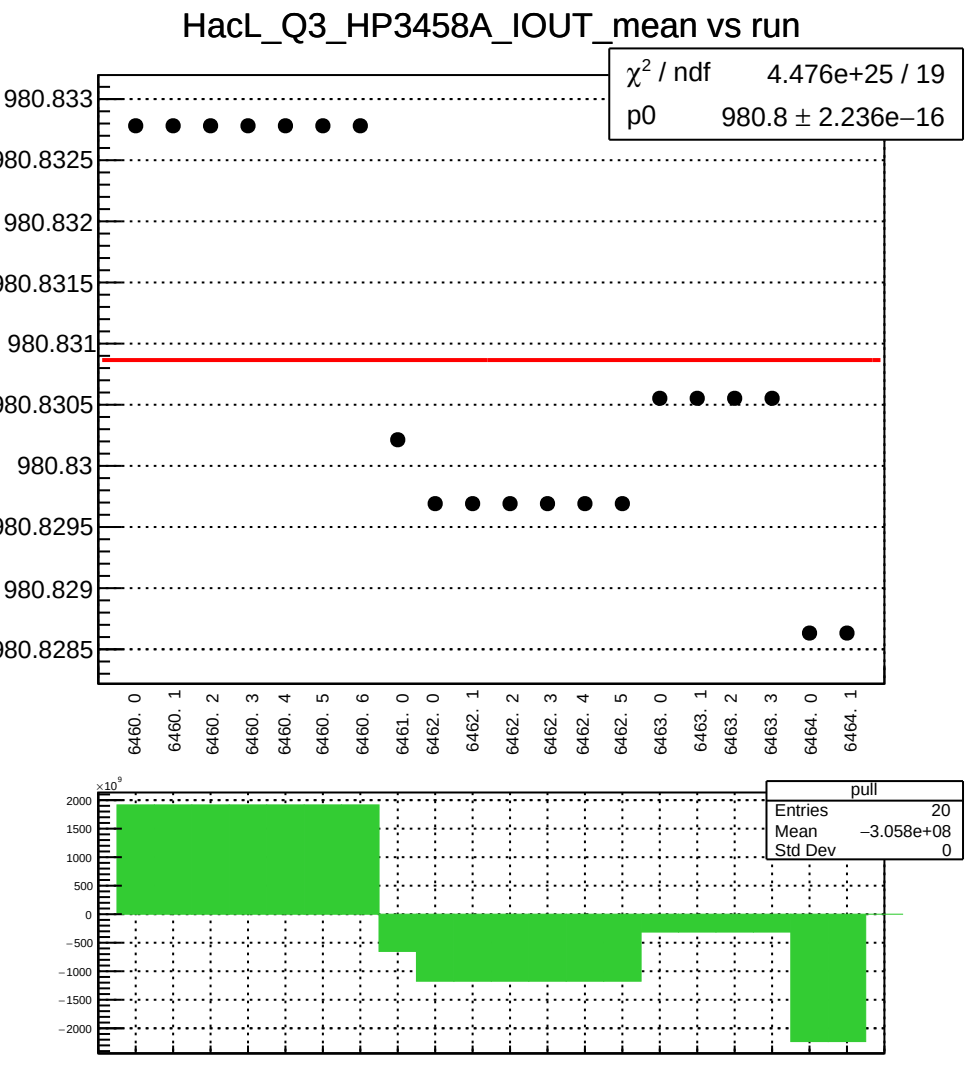

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.644e+22 / 19
p0 −1.07e−05 ± 2.236e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10⁹
pull
Entries 20
Mean −4.218e+08
Std Dev 0
0
−20
−40
−60
−80
−100

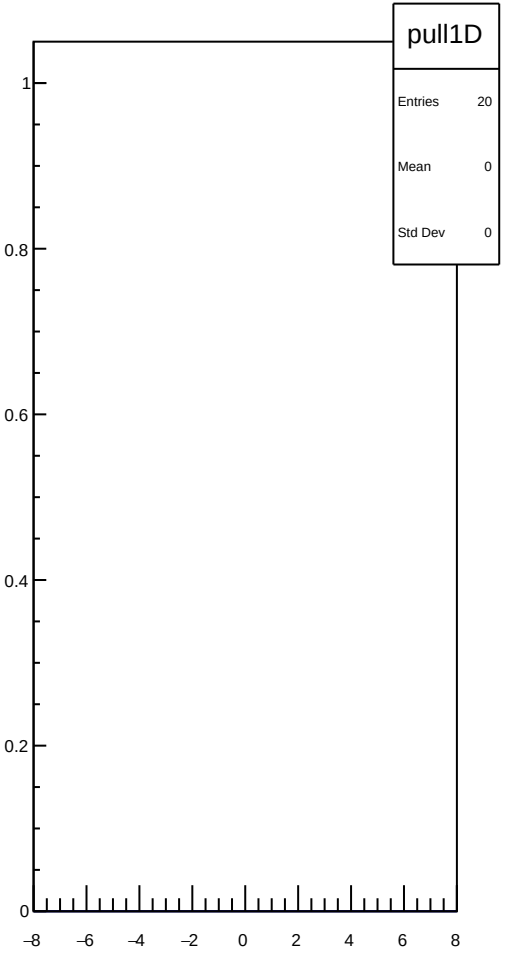

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

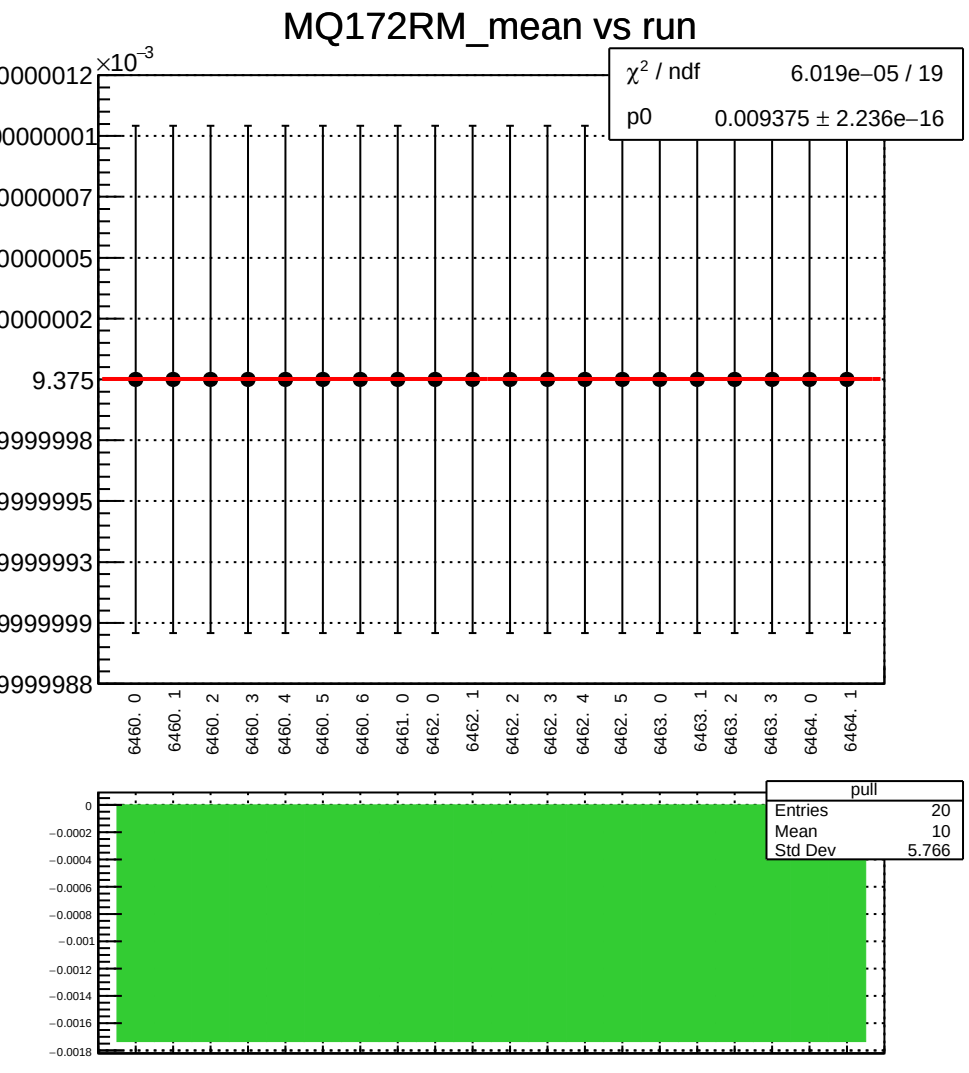

MQ171LM_mean vs run
χ² / ndf 6.019e−05 / 19
p0 0.009375 ± 2.236e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018
pull1D
Entries 20
Mean −0.001735
Std Dev 0
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

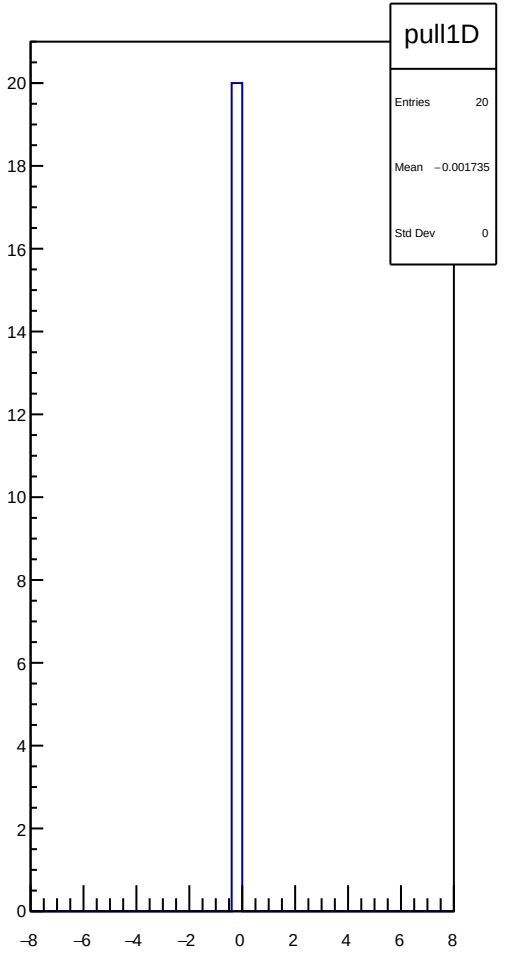

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 6.855e+24 / 19
p0 931.9 ± 2.236e−16
931.8675
931.867
931.8665
931.866
931.8655
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10⁹
1500
1000
500
0
−500
pull
Entries 20
Mean −5.988e+08
Std Dev 0
pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

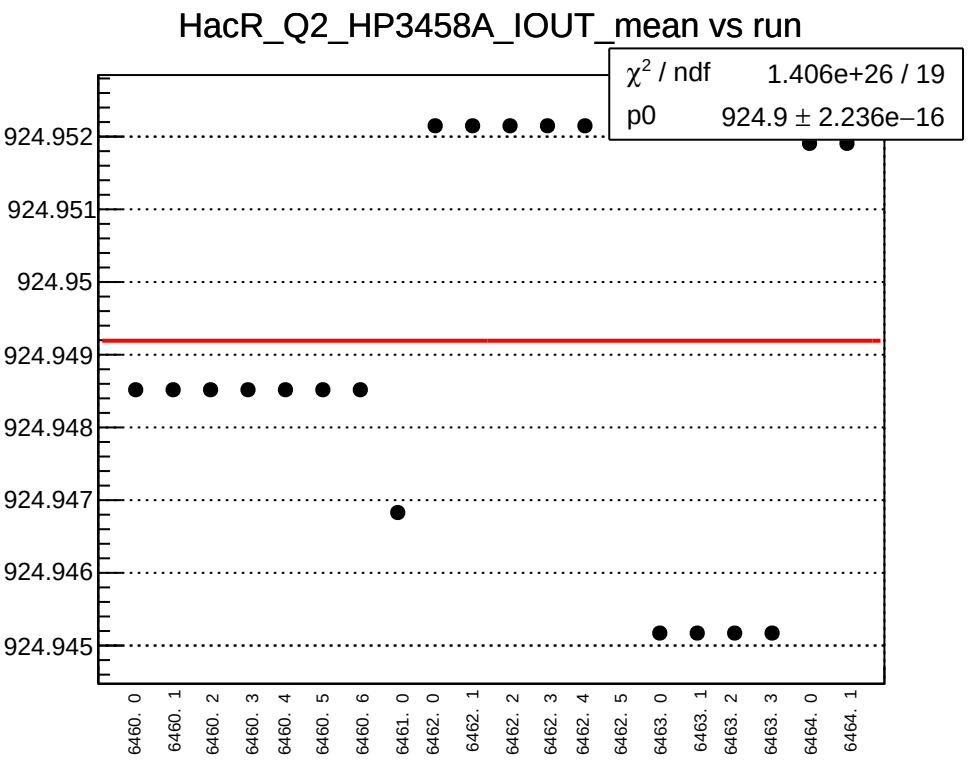

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.207e+27 / 19
p0 741.5 ± 2.236e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10¹²
5
0
−5
−10
−15
−20
−25
−30
pull
Entries 20
Mean −2.309e+09
Std Dev 0
pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

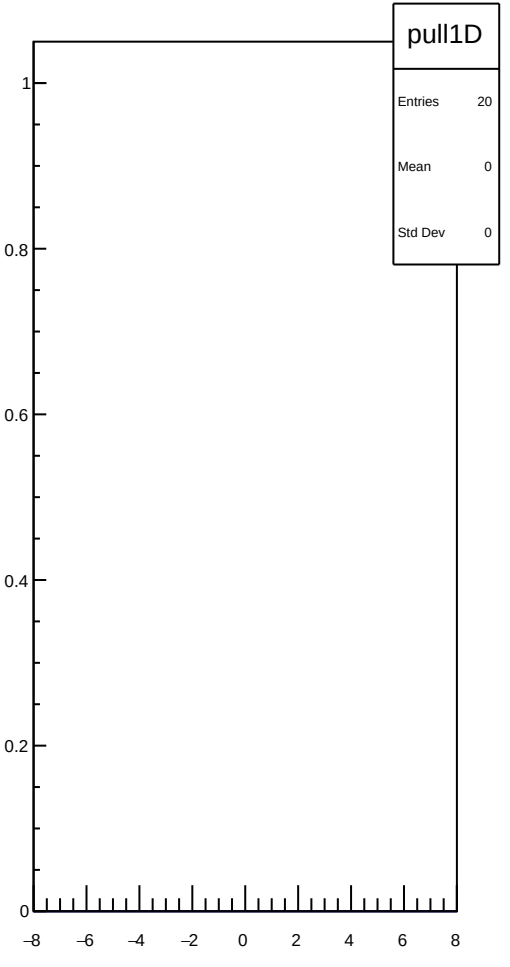

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.476e+25 / 19
p0 980.8 ± 2.236e−16
980.833
980.8325
980.832
980.8315
980.831
980.8305
980.83
980.8295
980.829
980.8285
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10⁹
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 20
Mean −3.058e+08
Std Dev 0

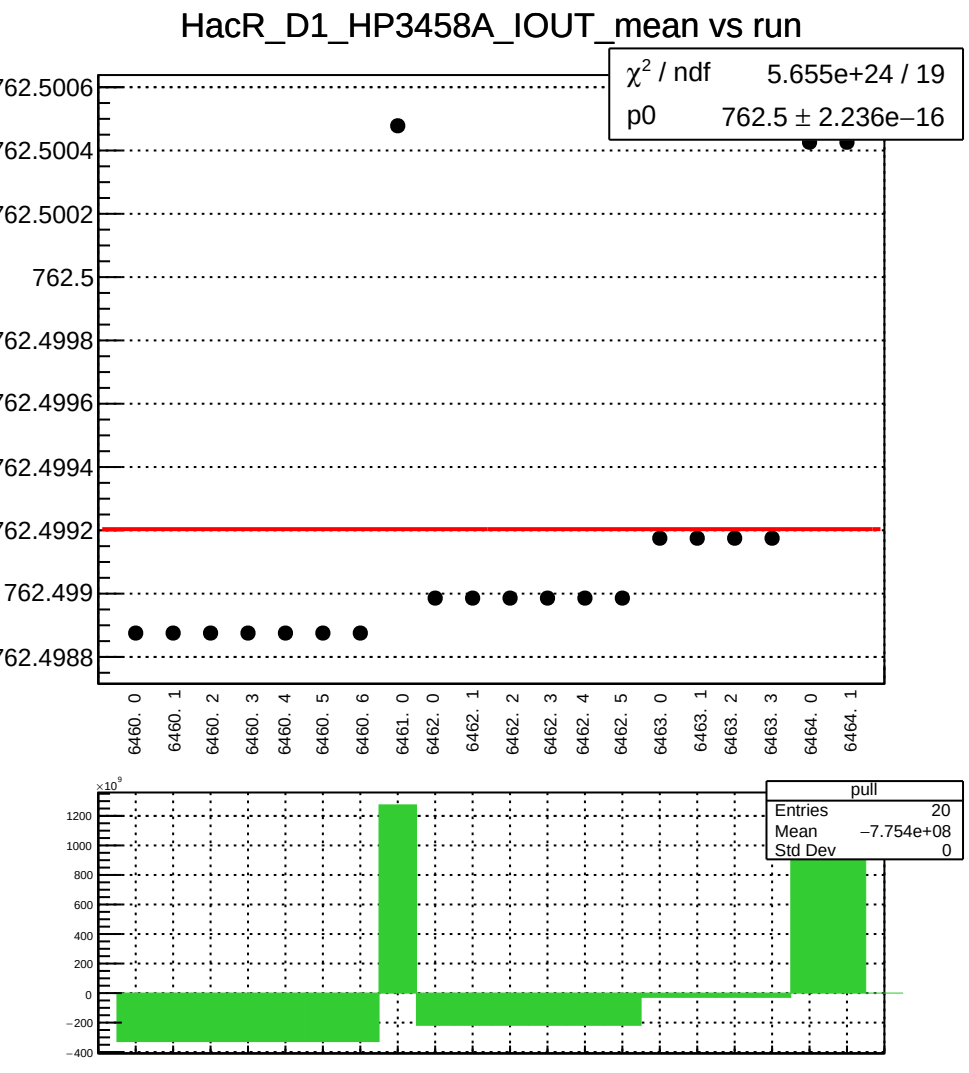

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

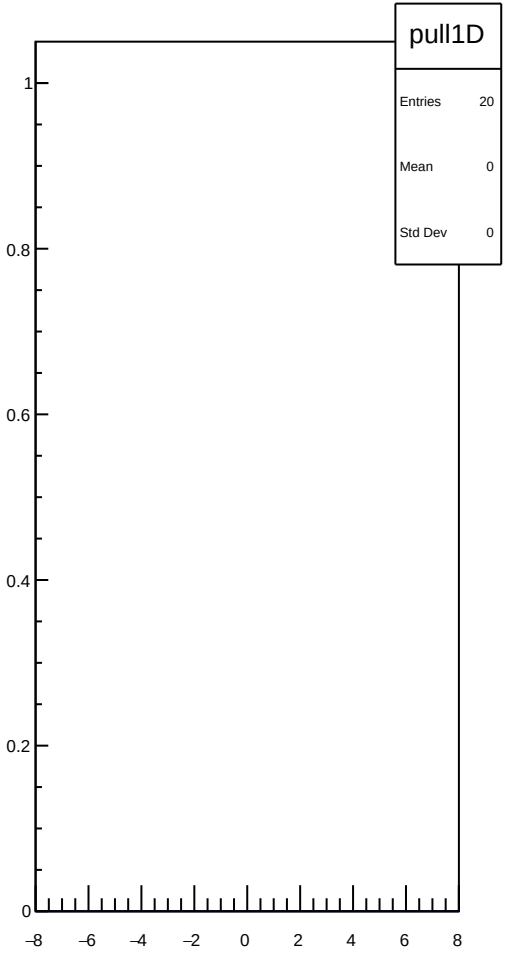

MQ172RM_mean vs run
χ² / ndf 6.019e−05 / 19
p0 0.009375 ± 2.236e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018

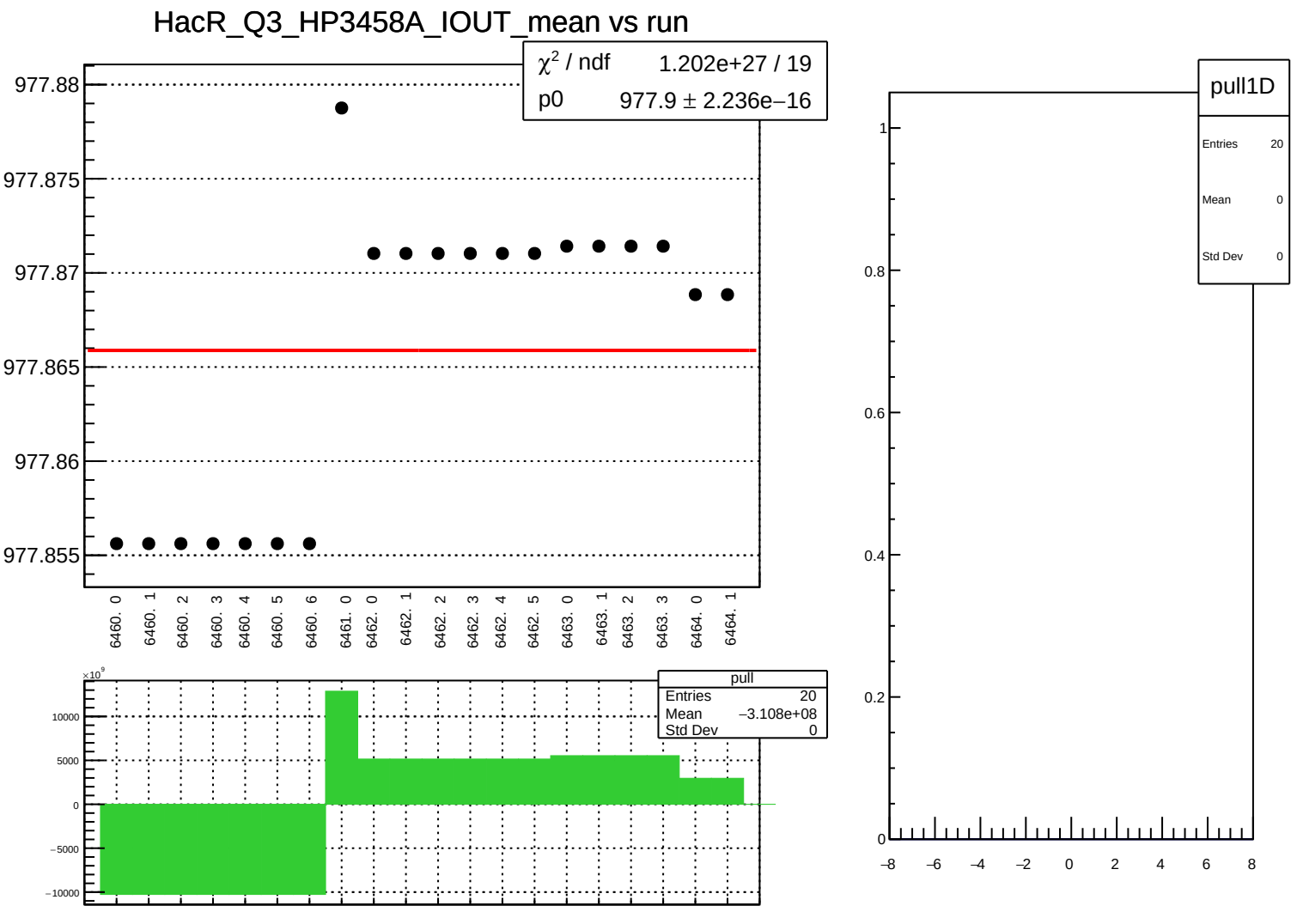

pull1D
Entries 20
Mean −0.001735
Std Dev 0
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

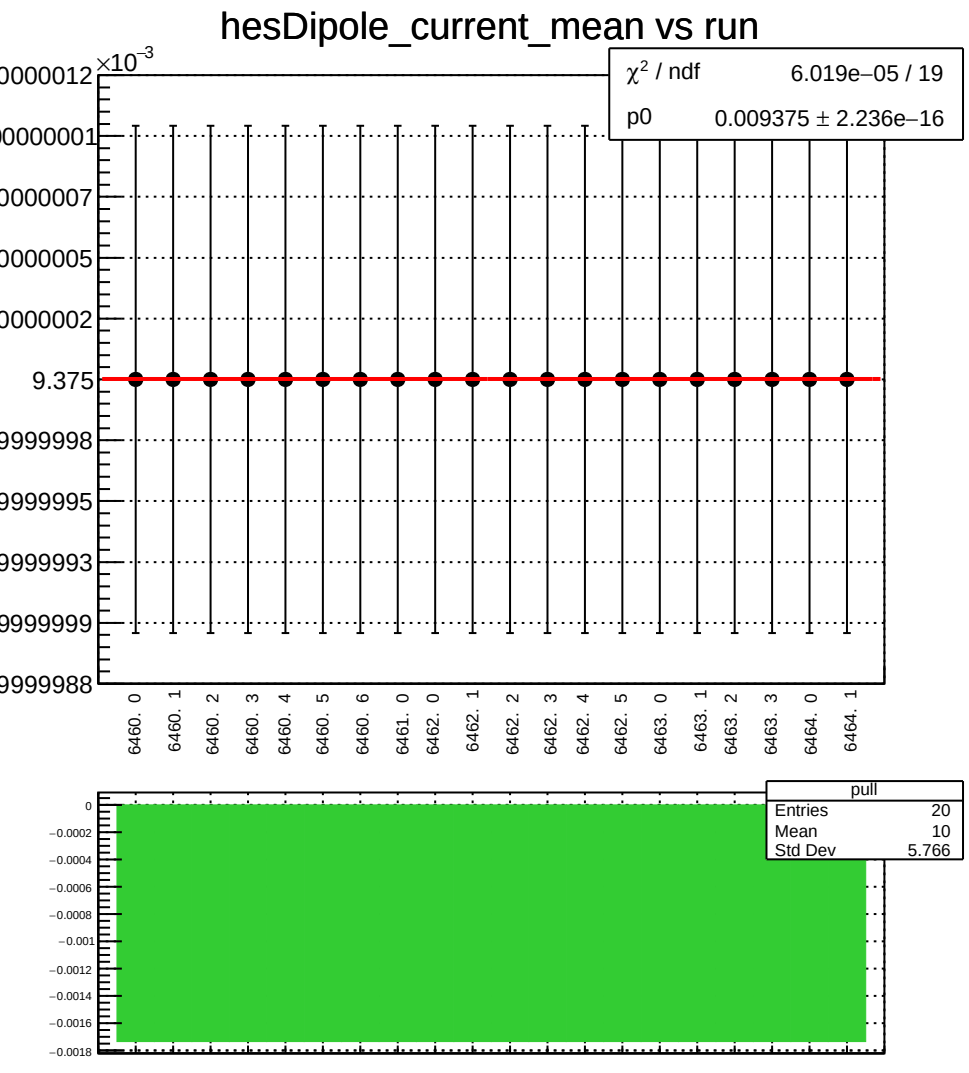

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.406e+26 / 19
p0 924.9 ± 2.236e−16
924.952
924.951
924.95
924.949
924.948
924.947
924.946
924.945
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 20
Mean −1.273e+07
Std Dev 0

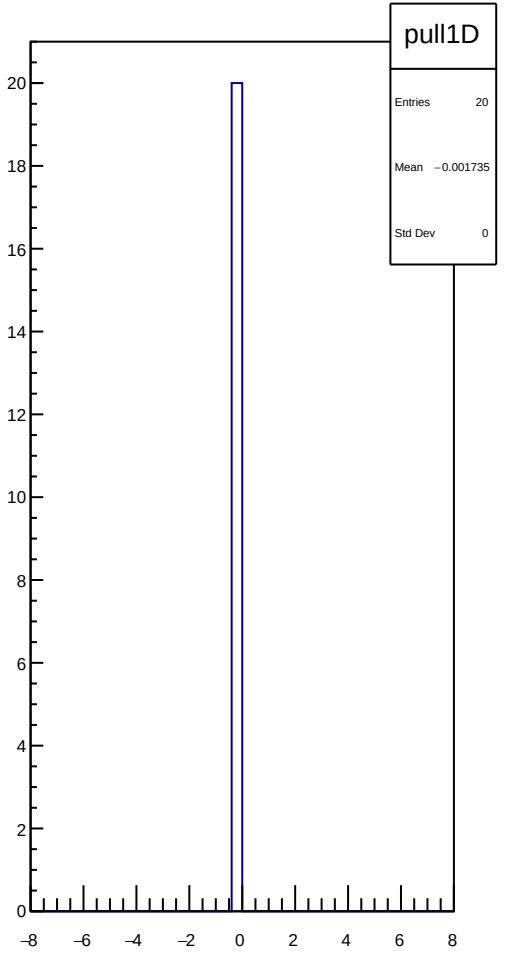

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

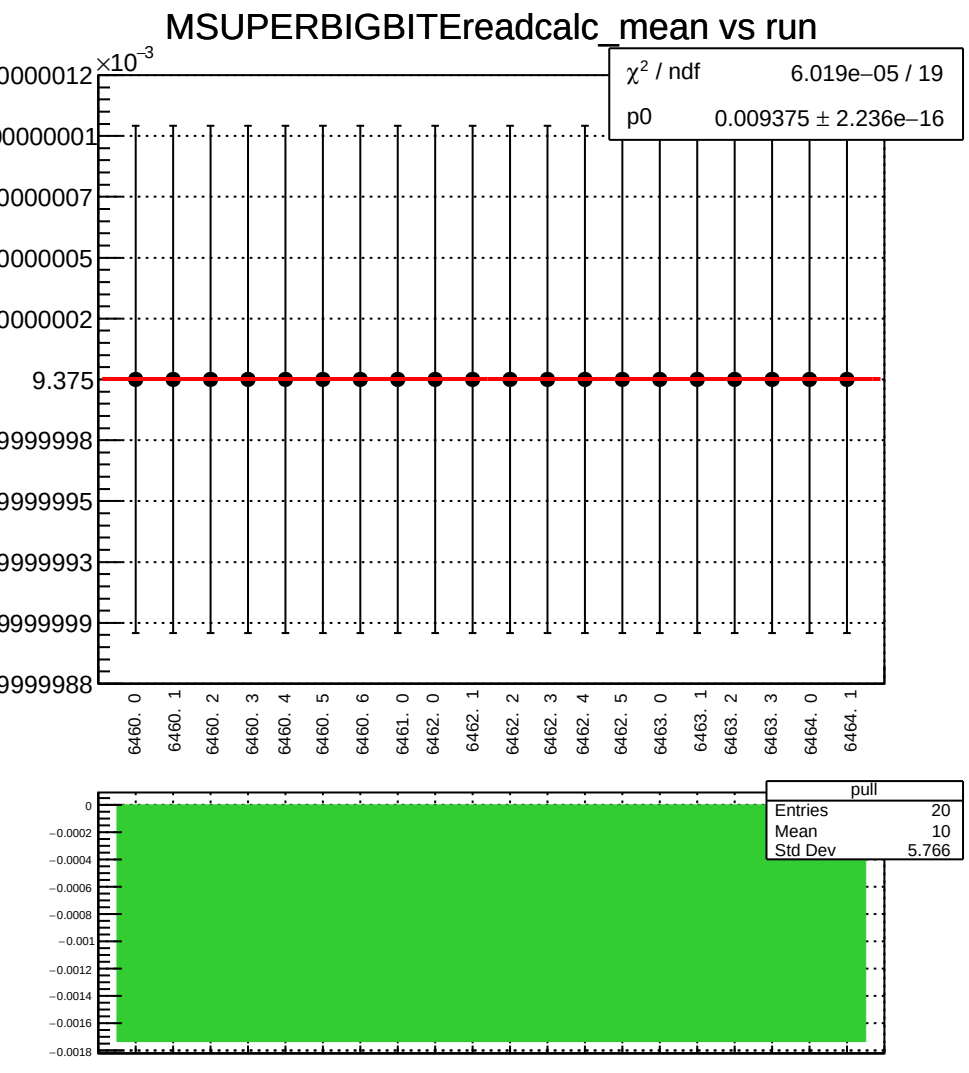

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.655e+24 / 19
p0 762.5 ± 2.236e−16
762.5006
762.5004
762.5002
762.5
762.4998
762.4996
762.4994
762.4992
762.499
762.4988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
×10⁹
1200
1000
800
600
400
200
0
−200
−400
pull
Entries 20
Mean −7.754e+08
Std Dev 0

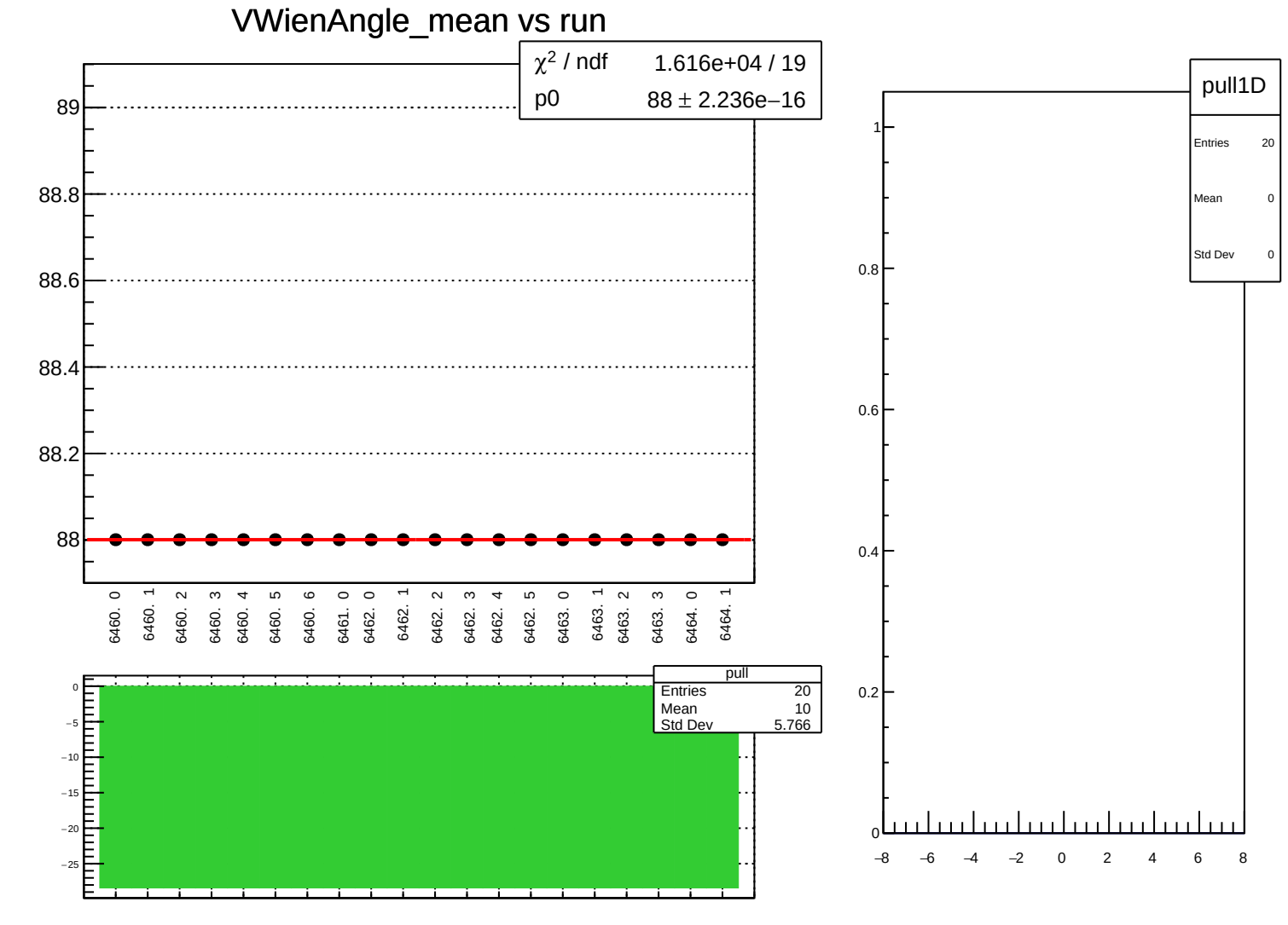

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

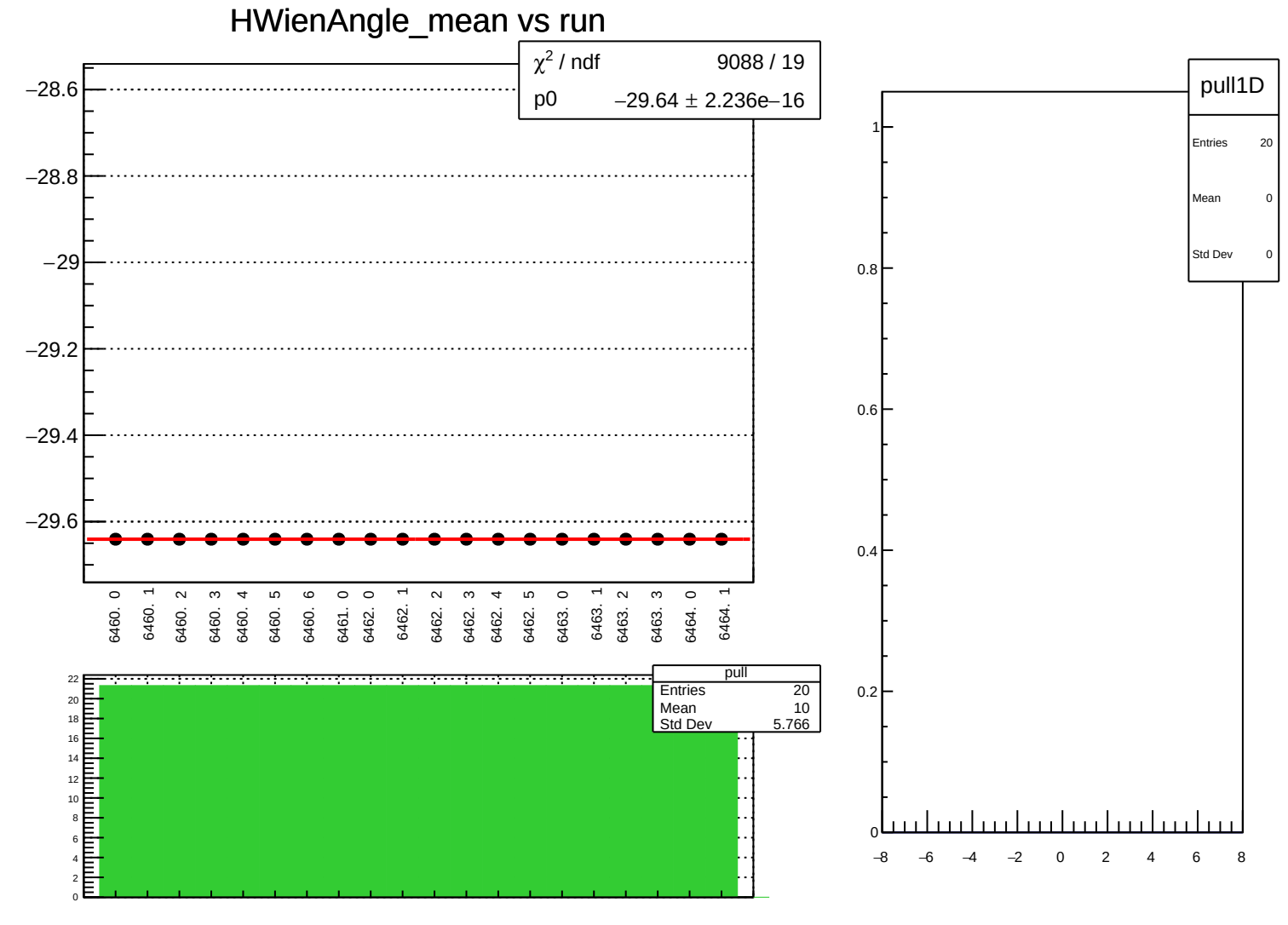

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.202e+27 / 19
p0 977.9 ± 2.236e−16
977.88
977.875
977.87
977.865
977.86
977.855
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean −3.108e+08
Std Dev 0
×10⁹
10000
5000
0
−5000
−10000
pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

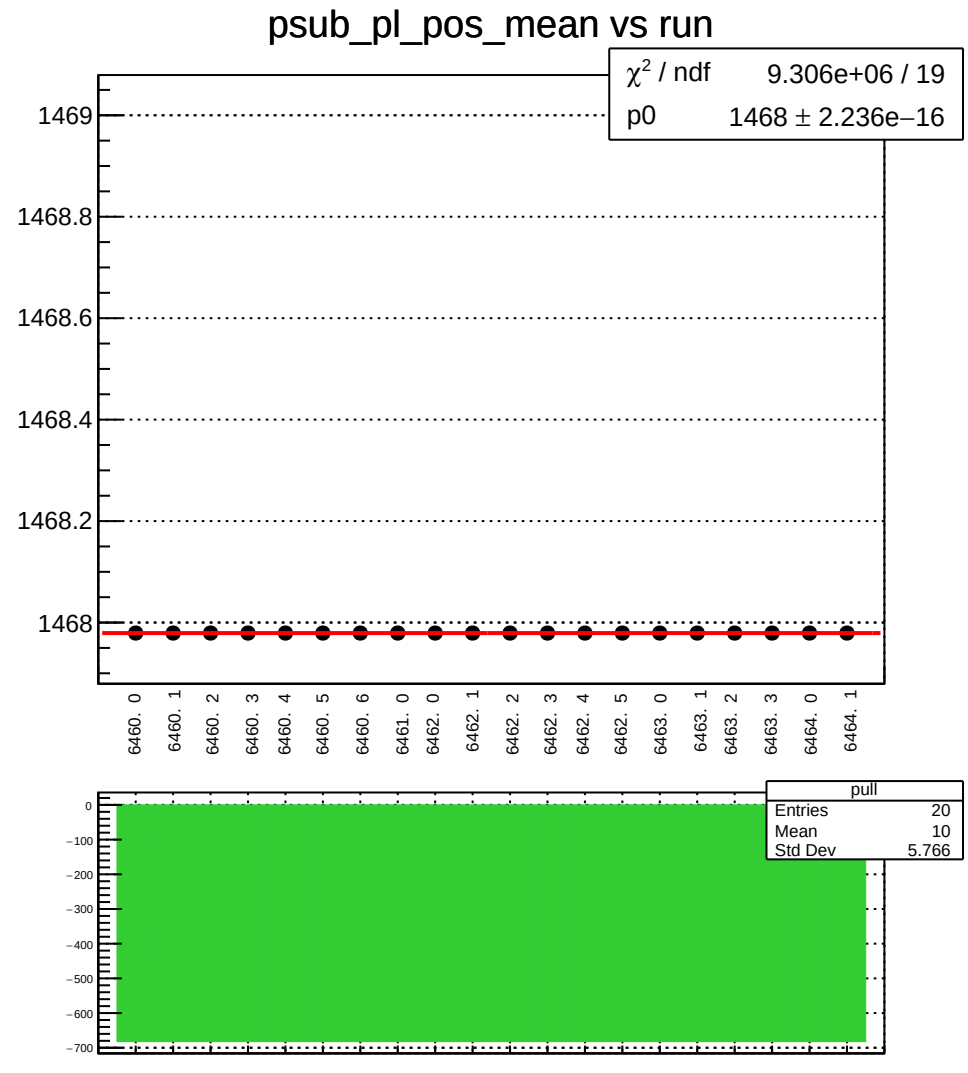

hesDipole_current_mean vs run
χ² / ndf 6.019e−05 / 19
p0 0.009375 ± 2.236e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018

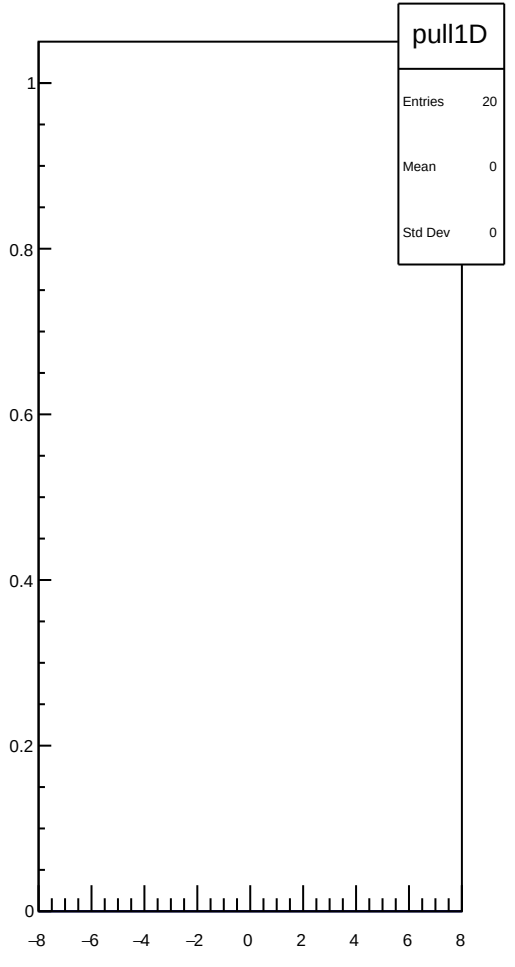

pull1D
Entries 20
Mean −0.001735
Std Dev 0
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

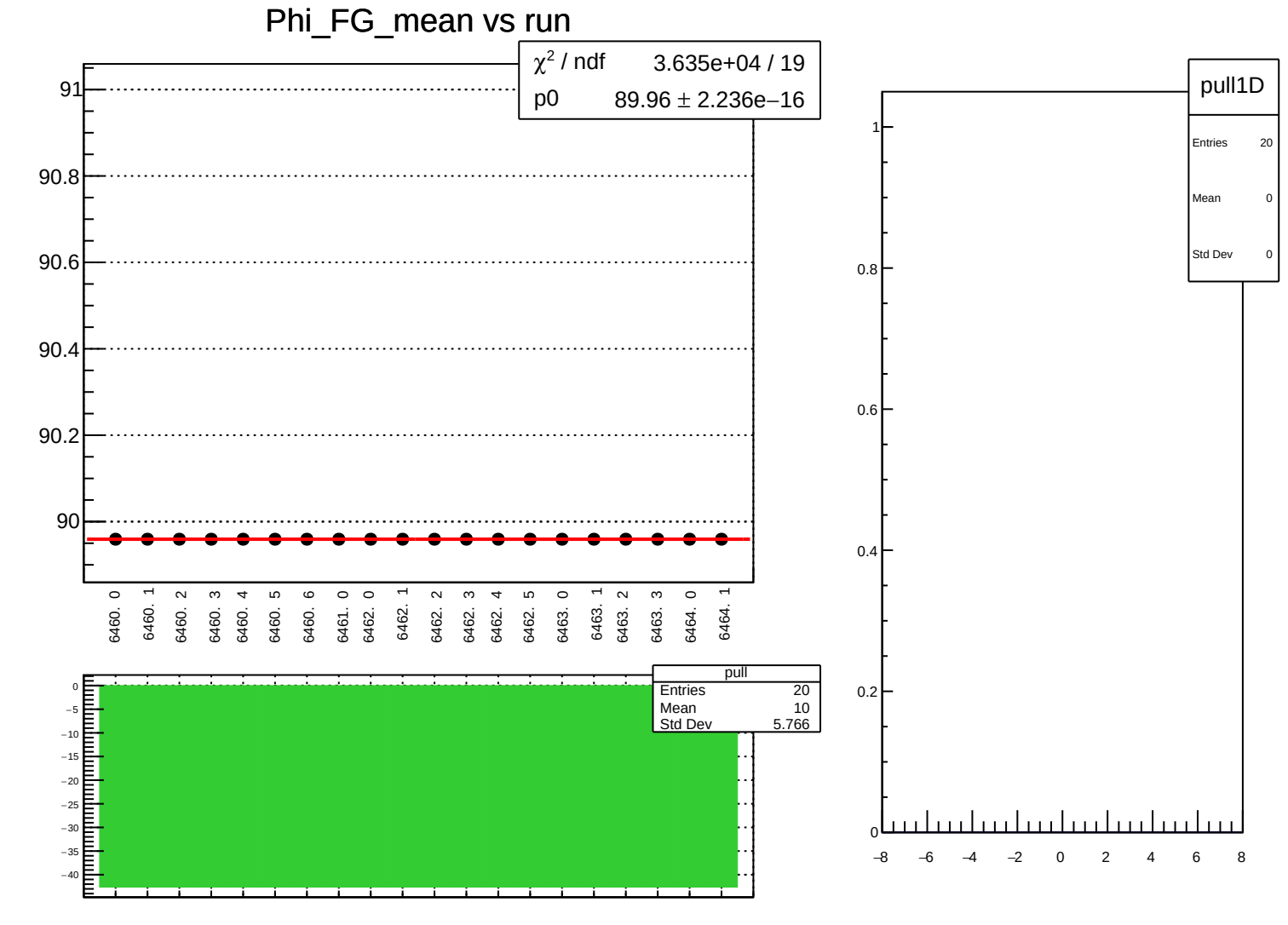

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 6.019e−05 / 19
p0 0.009375 ± 2.236e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018
pull1D
Entries 20
Mean −0.001735
Std Dev 0
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

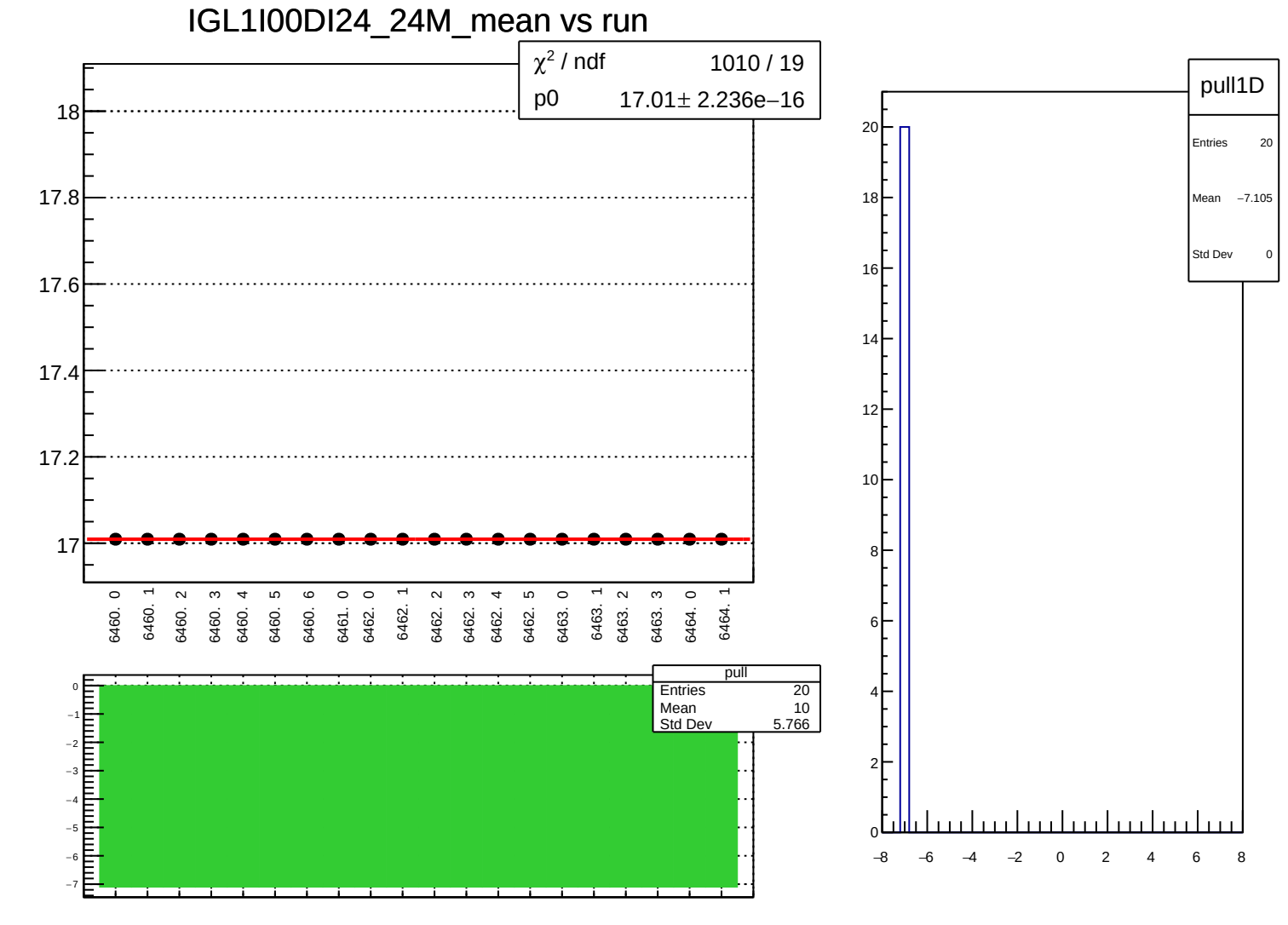

VWienAngle_mean vs run
χ² / ndf 1.616e+04 / 19
p0 88 ± 2.236e−16
89
88.8
88.6
88.4
88.2
88
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−5
−10
−15
−20
−25
pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

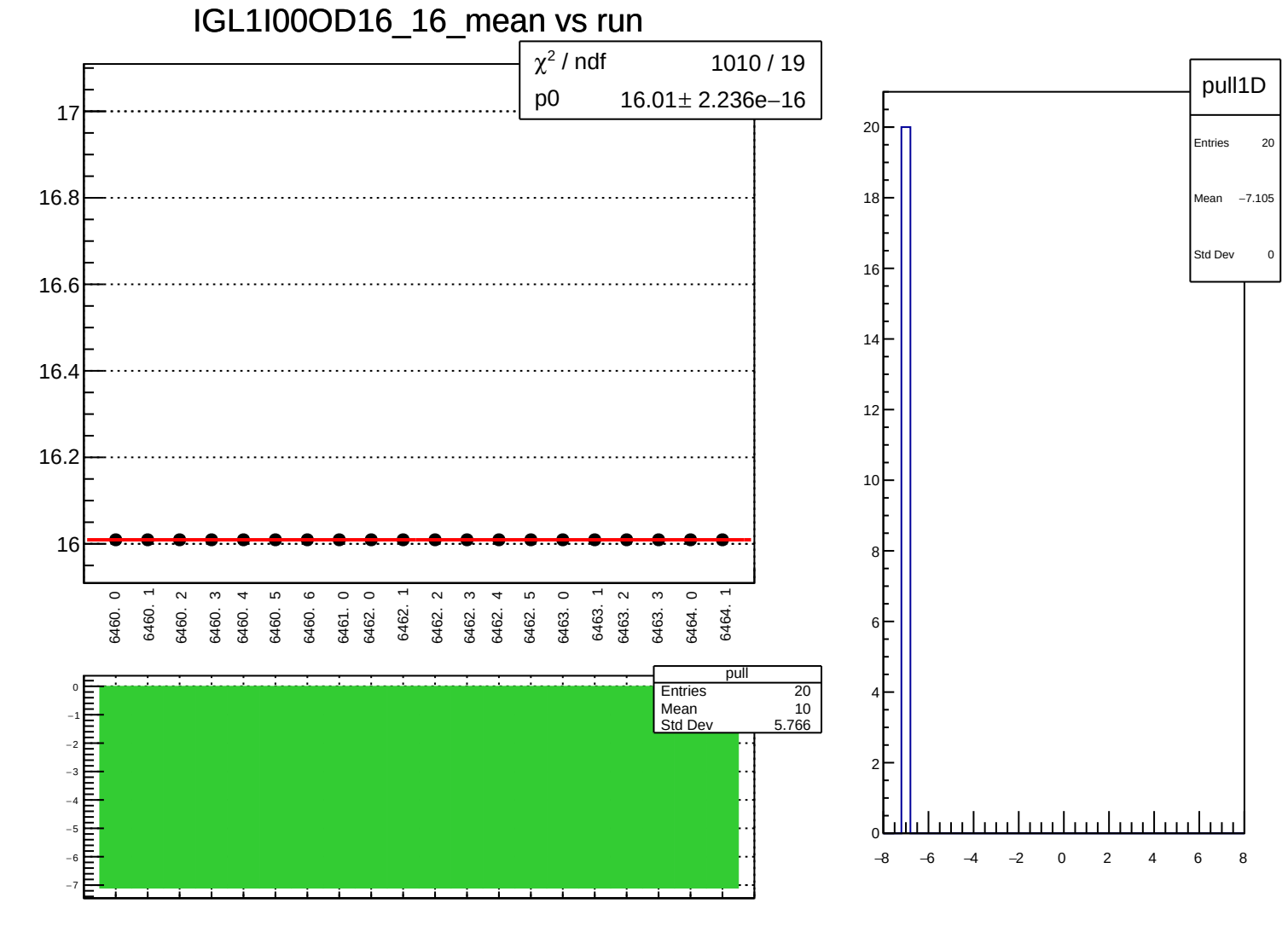

HWienAngle_mean vs run
χ² / ndf 9088 / 19
p0 −29.64 ± 2.236e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
pull1D
Entries 20
Mean 0
Std Dev 0

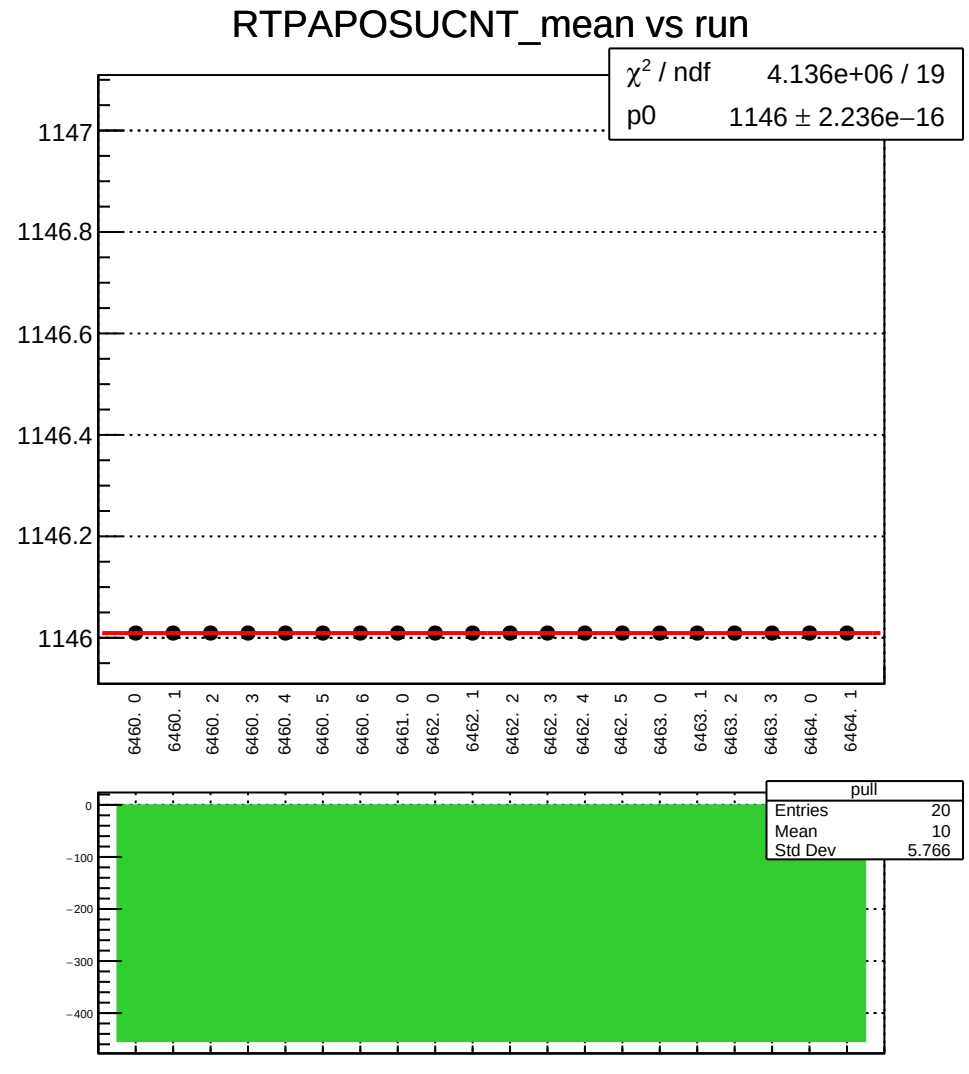

psub_pl_pos_mean vs run
χ² / ndf 9.306e+06 / 19
p0 1468 ± 2.236e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−100
−200
−300
−400
−500
−600
−700

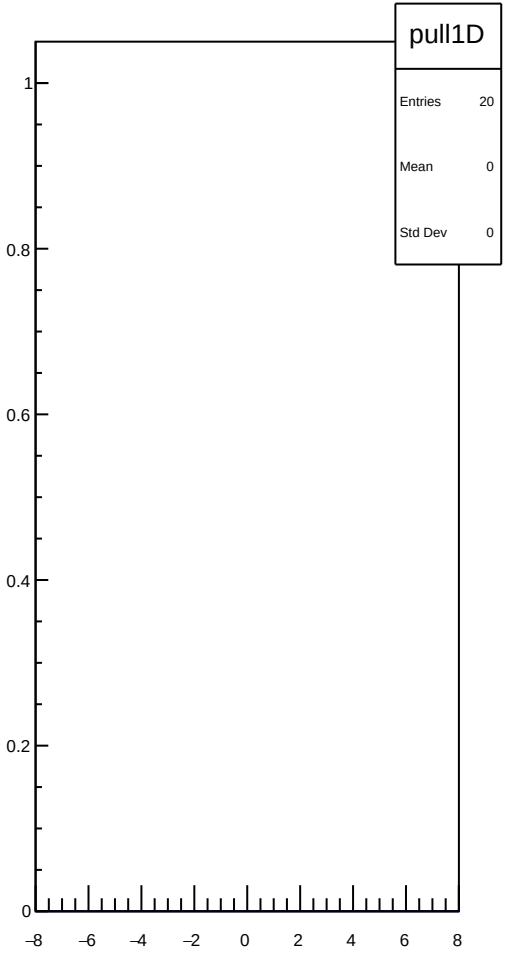

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

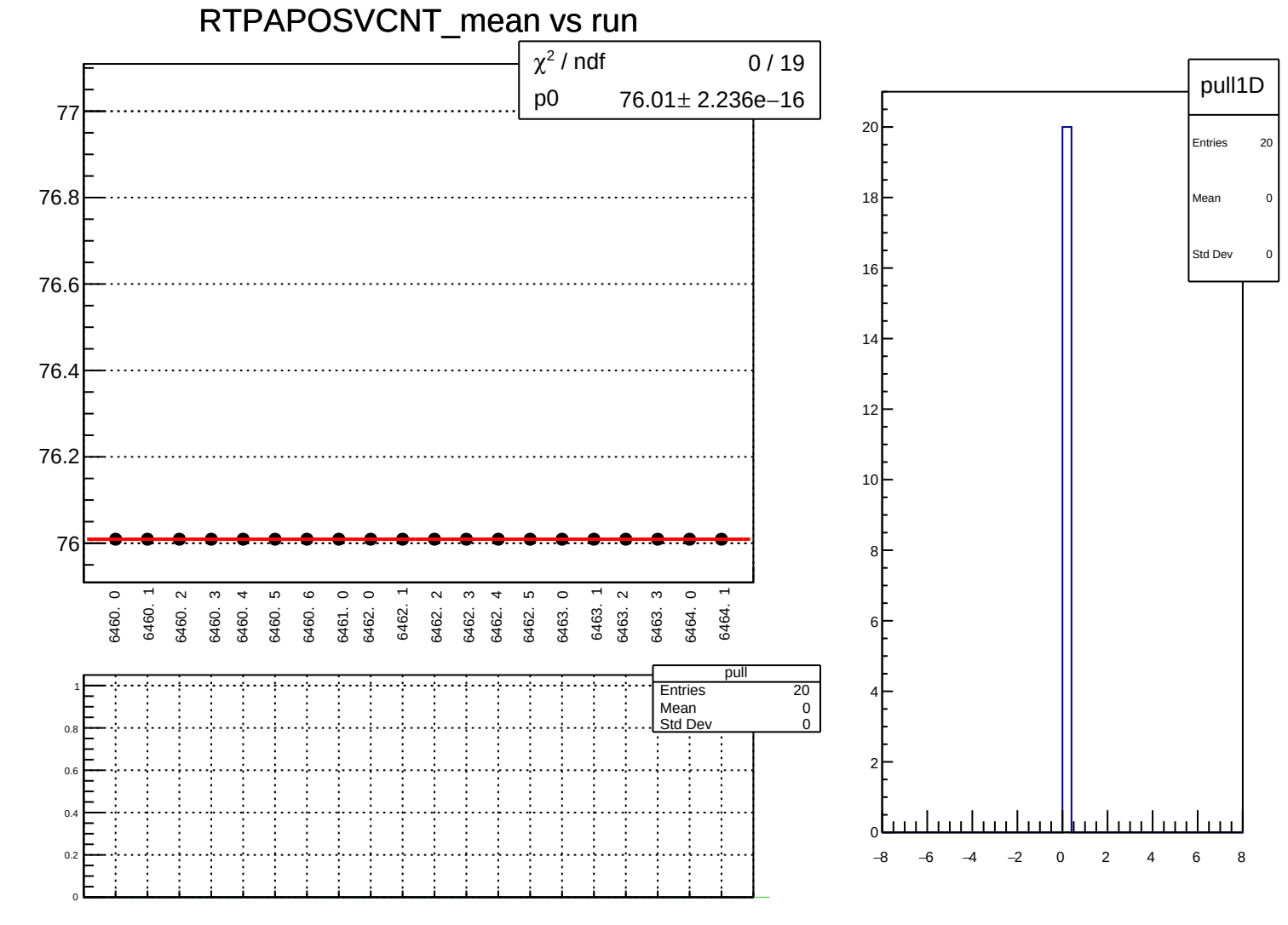

Phi_FG_mean vs run
χ² / ndf 3.635e+04 / 19
p0 89.96 ± 2.236e−16
91
90.8
90.6
90.4
90.2
90
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

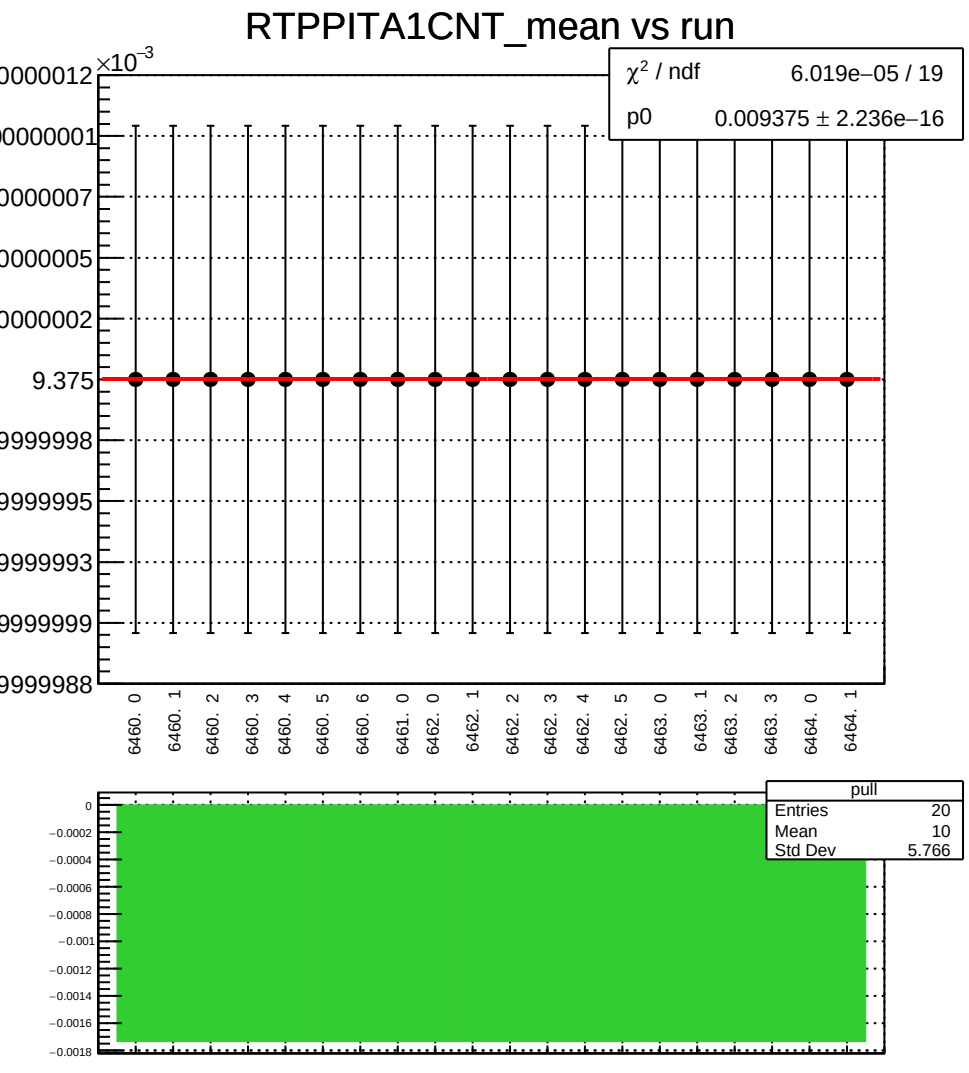

IGL1I00DI24_24M_mean vs run
χ² / ndf 1010 / 19
p0 17.01± 2.236e−16
18
17.8
17.6
17.4
17.2
17
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 20
Mean −7.105
Std Dev 0
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

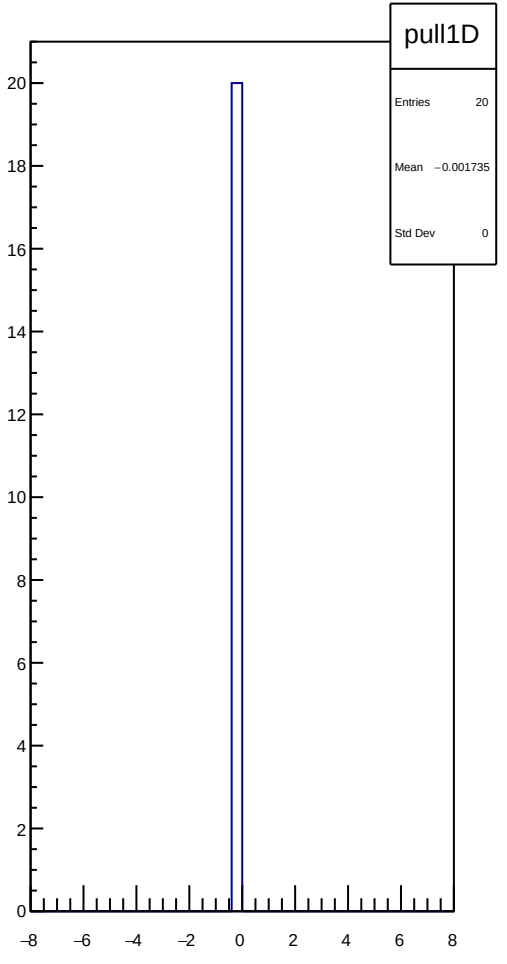

IGL1I00OD16_16_mean vs run
χ² / ndf 1010 / 19
p0 16.01± 2.236e−16
17
16.8
16.6
16.4
16.2
16
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
pull1D
Entries 20
Mean −7.105
Std Dev 0

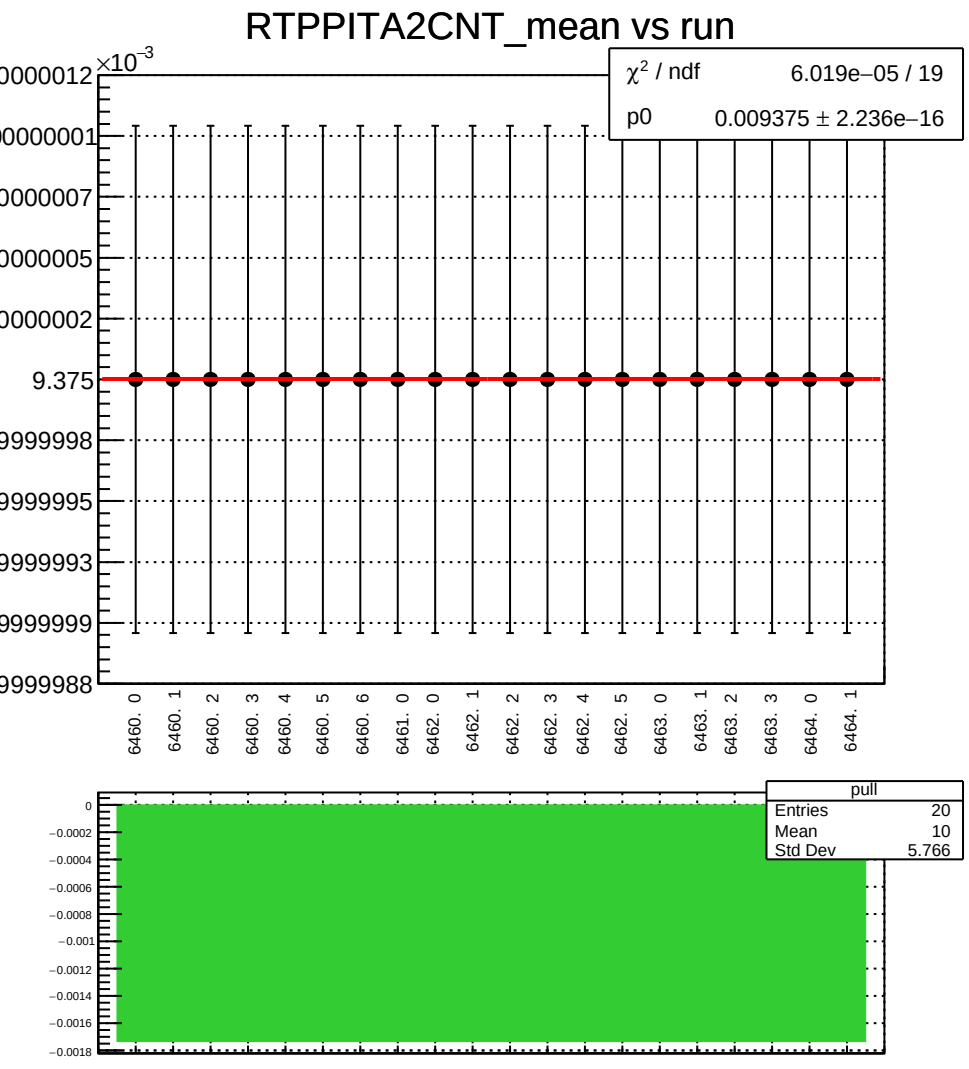

RTPAPOSUCNT_mean vs run
χ² / ndf 4.136e+06 / 19
p0 1146 ± 2.236e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−100
−200
−300
−400

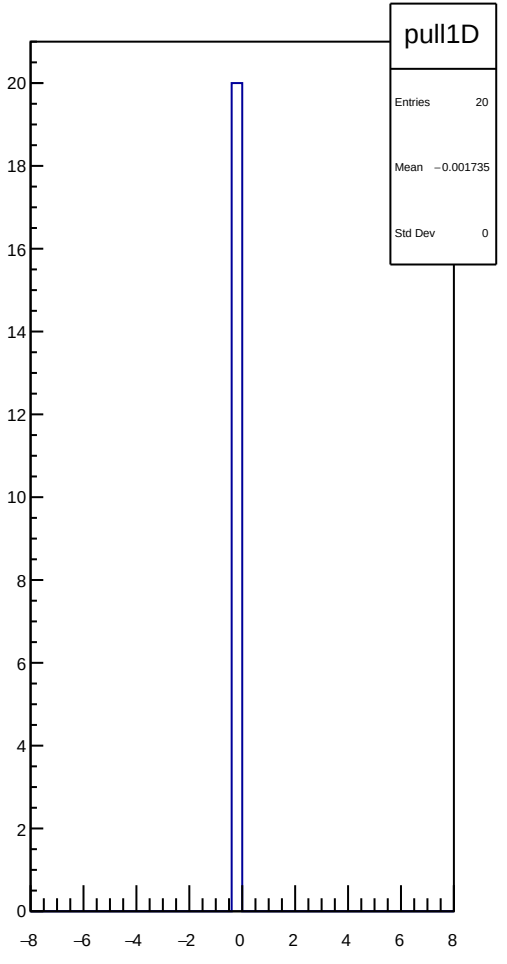

pull1D
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 0 / 19
p0 76.01± 2.236e−16
77
76.8
76.6
76.4
76.2
76
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 20
Mean 0
Std Dev 0
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 6.019e−05 / 19
p0 0.009375 ± 2.236e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018


pull1D
Entries 20
Mean −0.001735
Std Dev 0
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA2CNT_mean vs run
χ² / ndf 6.019e−05 / 19
p0 0.009375 ± 2.236e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6460. 0
6460. 1
6460. 2
6460. 3
6460. 4
6460. 5
6460. 6
6461. 0
6462. 0
6462. 1
6462. 2
6462. 3
6462. 4
6462. 5
6463. 0
6463. 1
6463. 2
6463. 3
6464. 0
6464. 1
pull
Entries 20
Mean 10
Std Dev 5.766
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018


pull1D
Entries 20
Mean −0.001735
Std Dev 0
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8