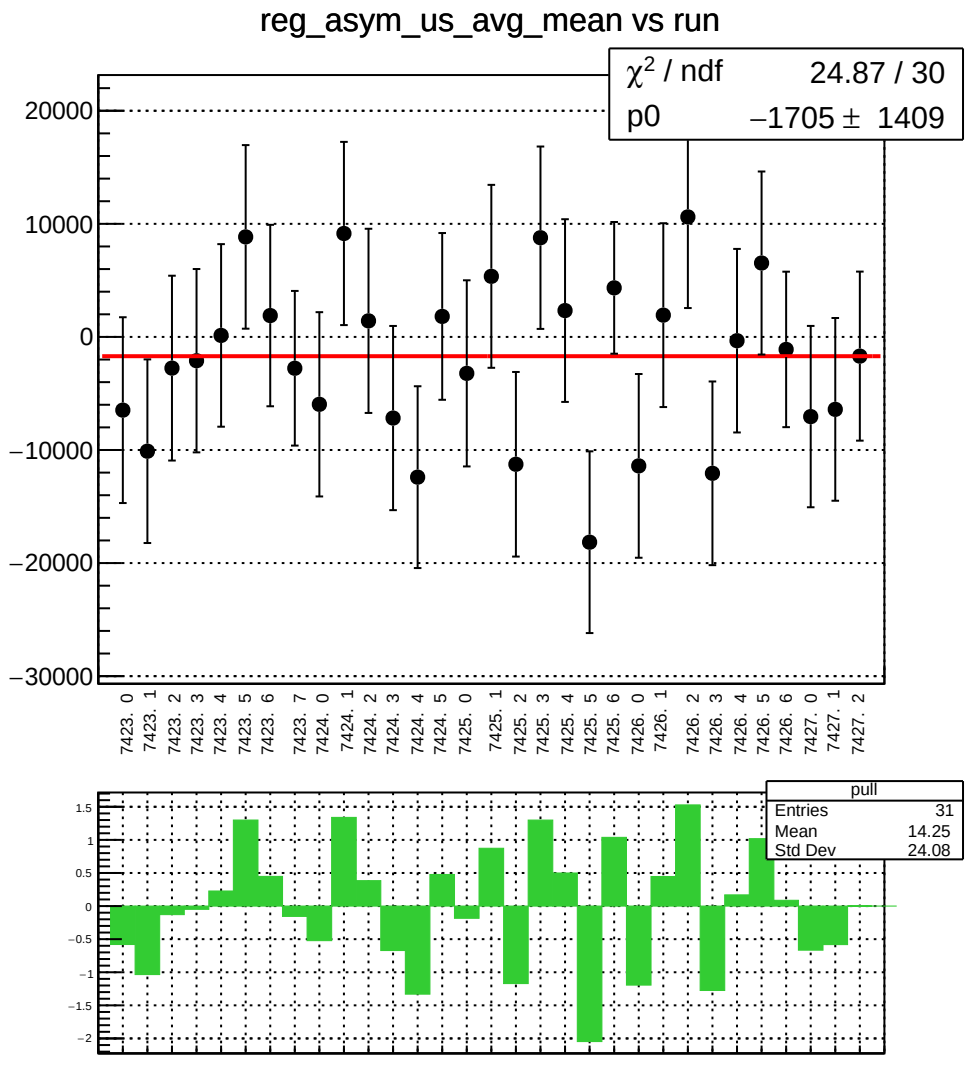
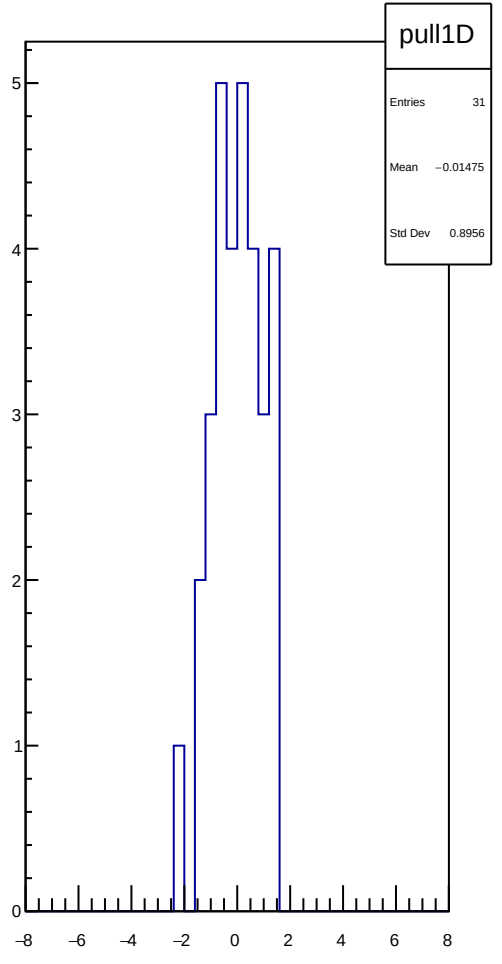
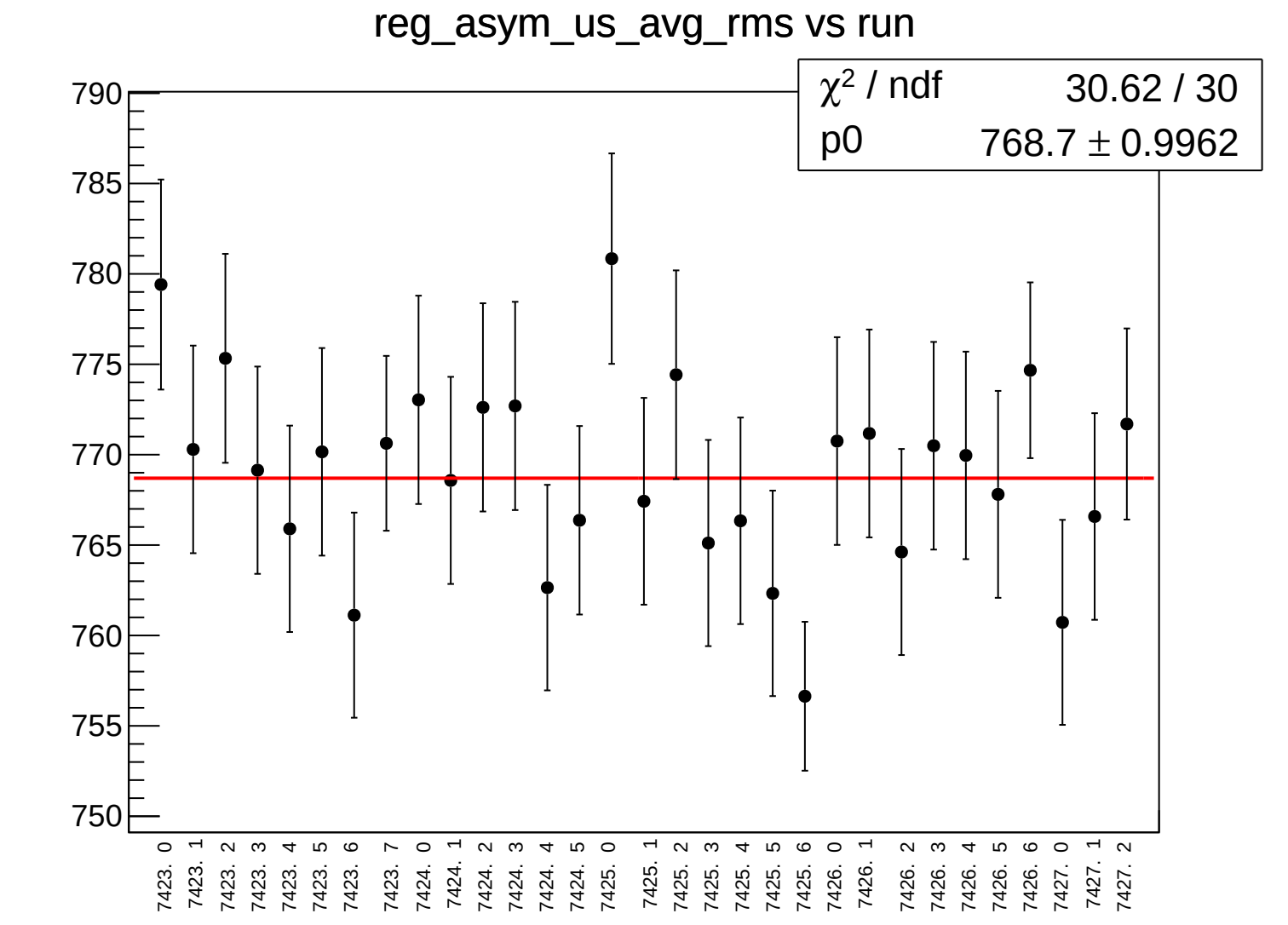
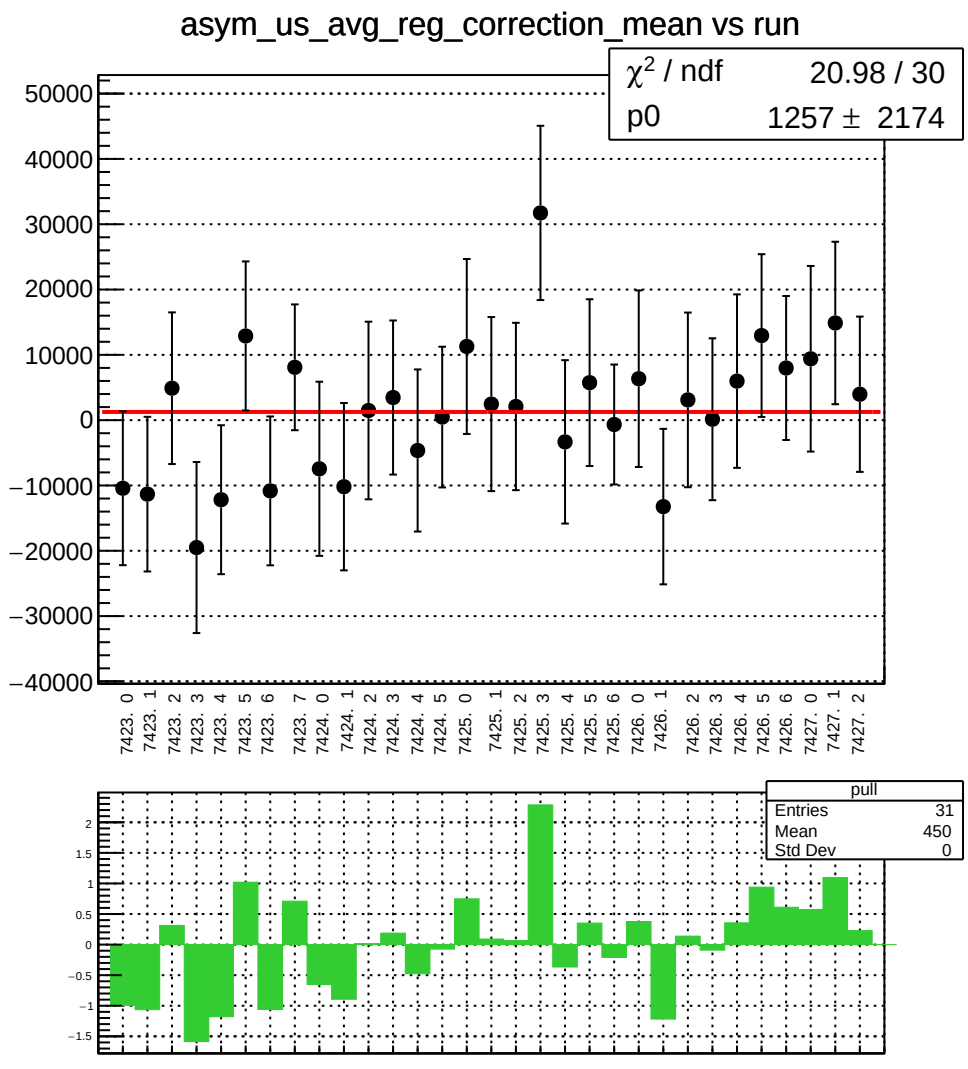
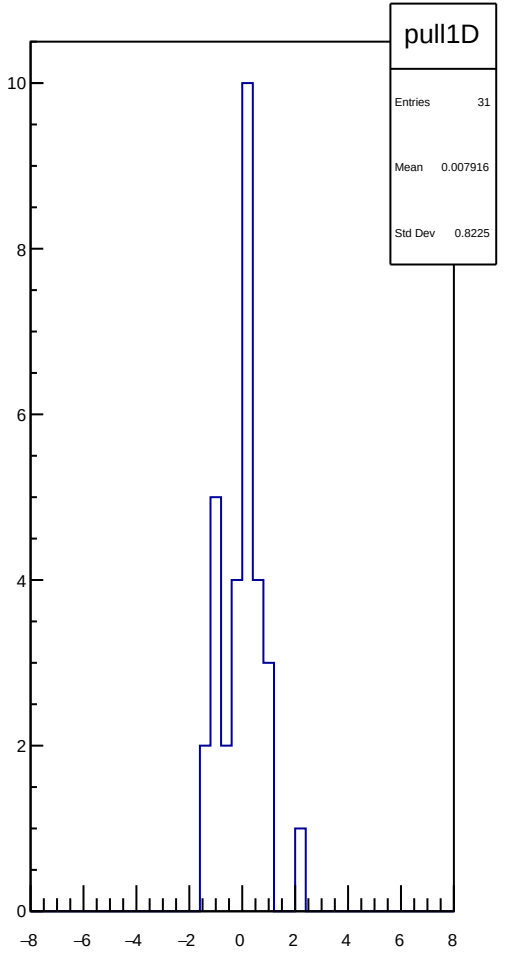
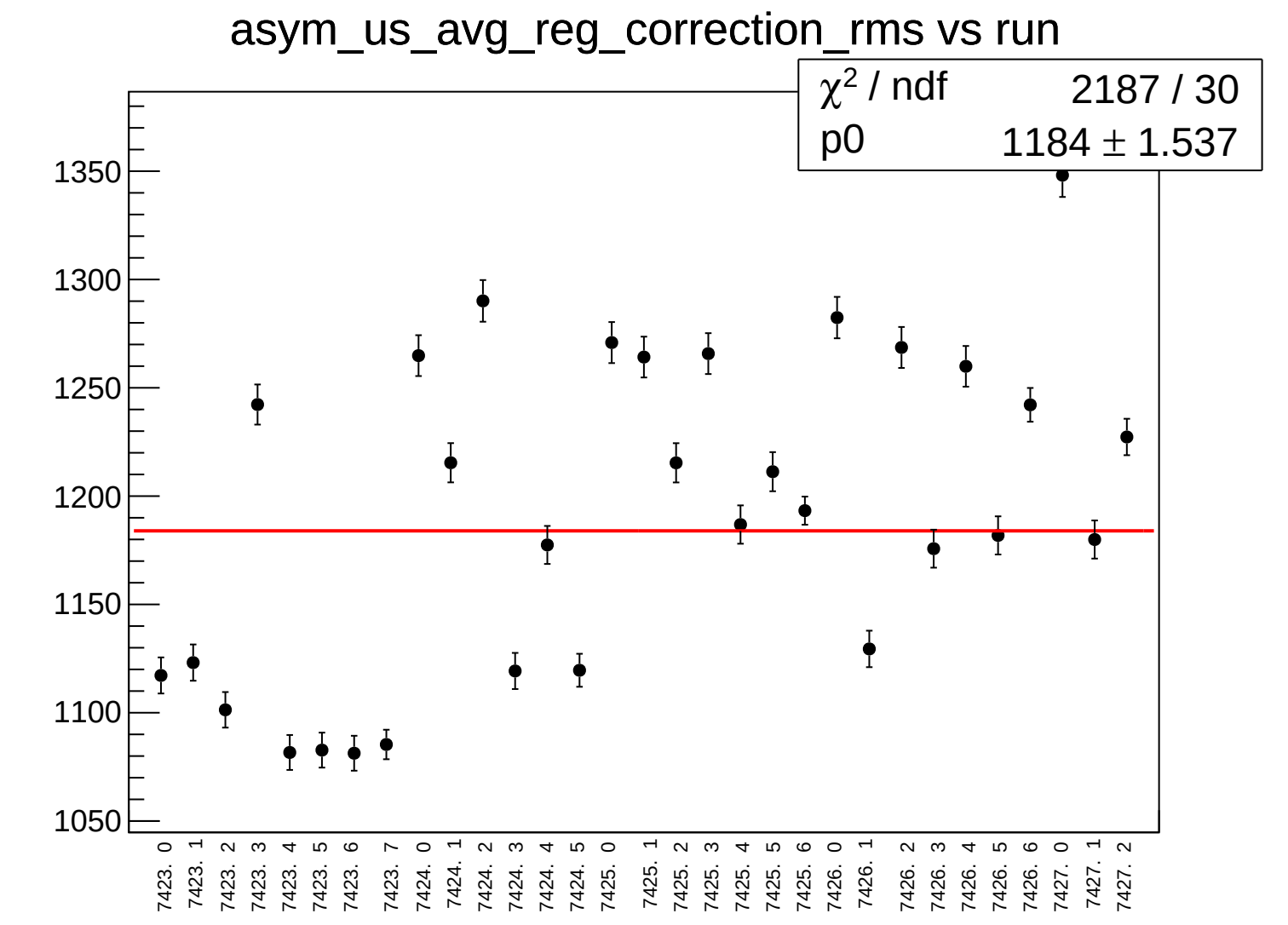

reg_asym_us_avg_mean vs run
χ² / ndf 24.87 / 30
p0 −1705 ± 1409
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.25
Std Dev 24.08
1.5
1
0.5
0
−0.5
−1
−1.5
−2

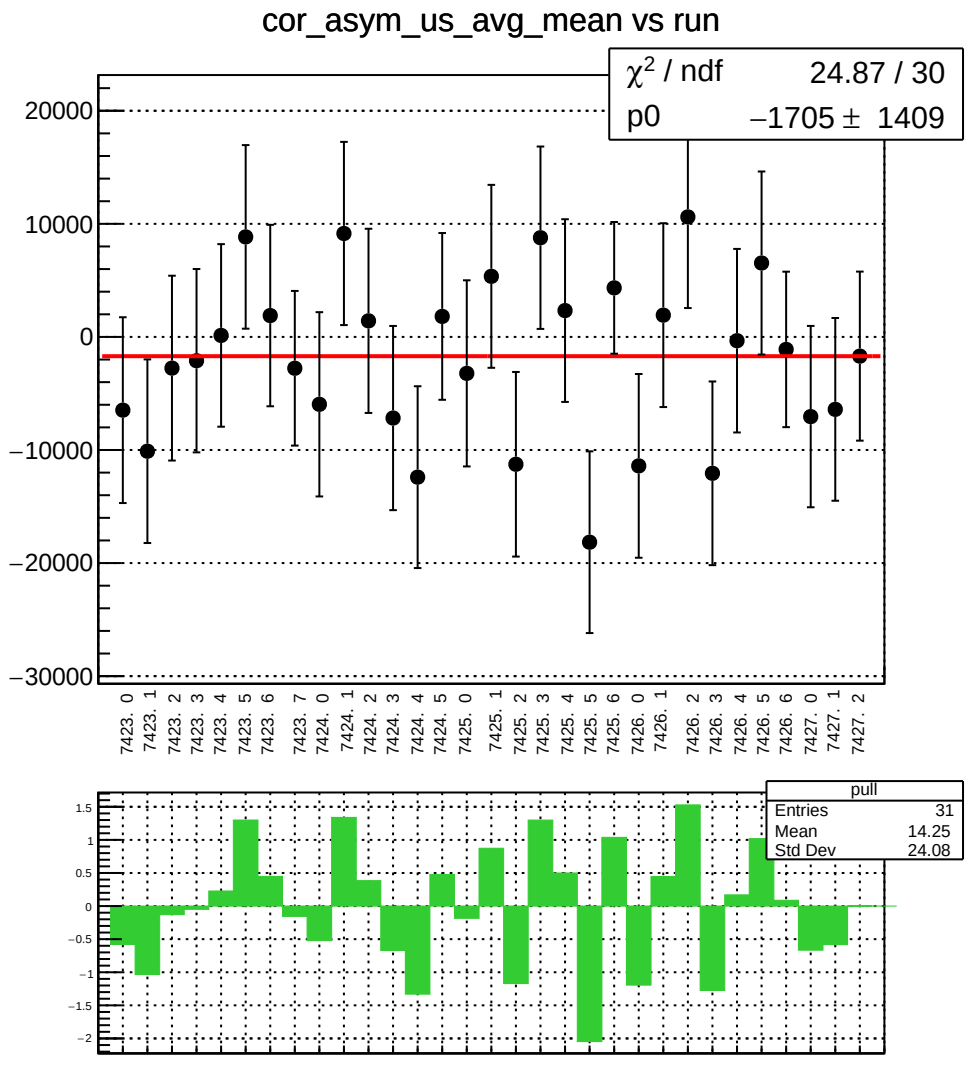

pull1D
Entries 31
Mean −0.01475
Std Dev 0.8956
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

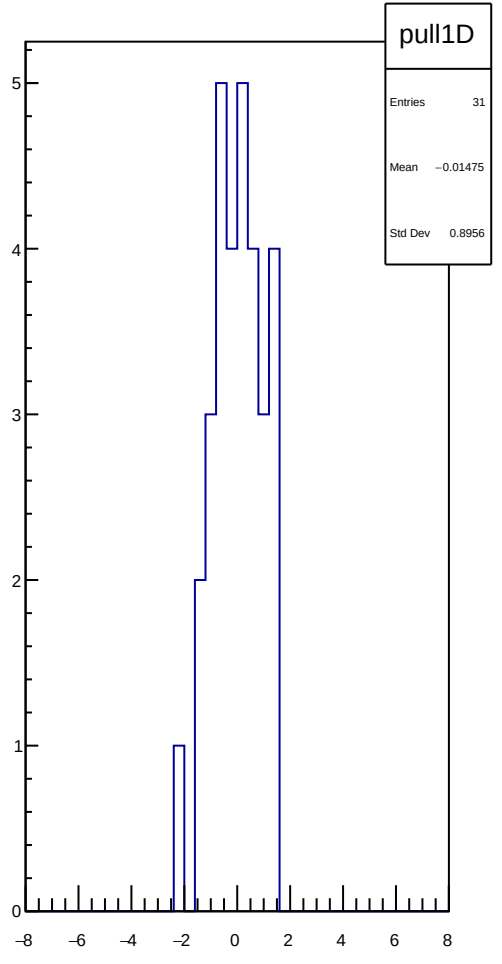

reg_asym_us_avg_rms vs run
χ² / ndf 30.62 / 30
p0 768.7 ± 0.9962
790
785
780
775
770
765
760
755
750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

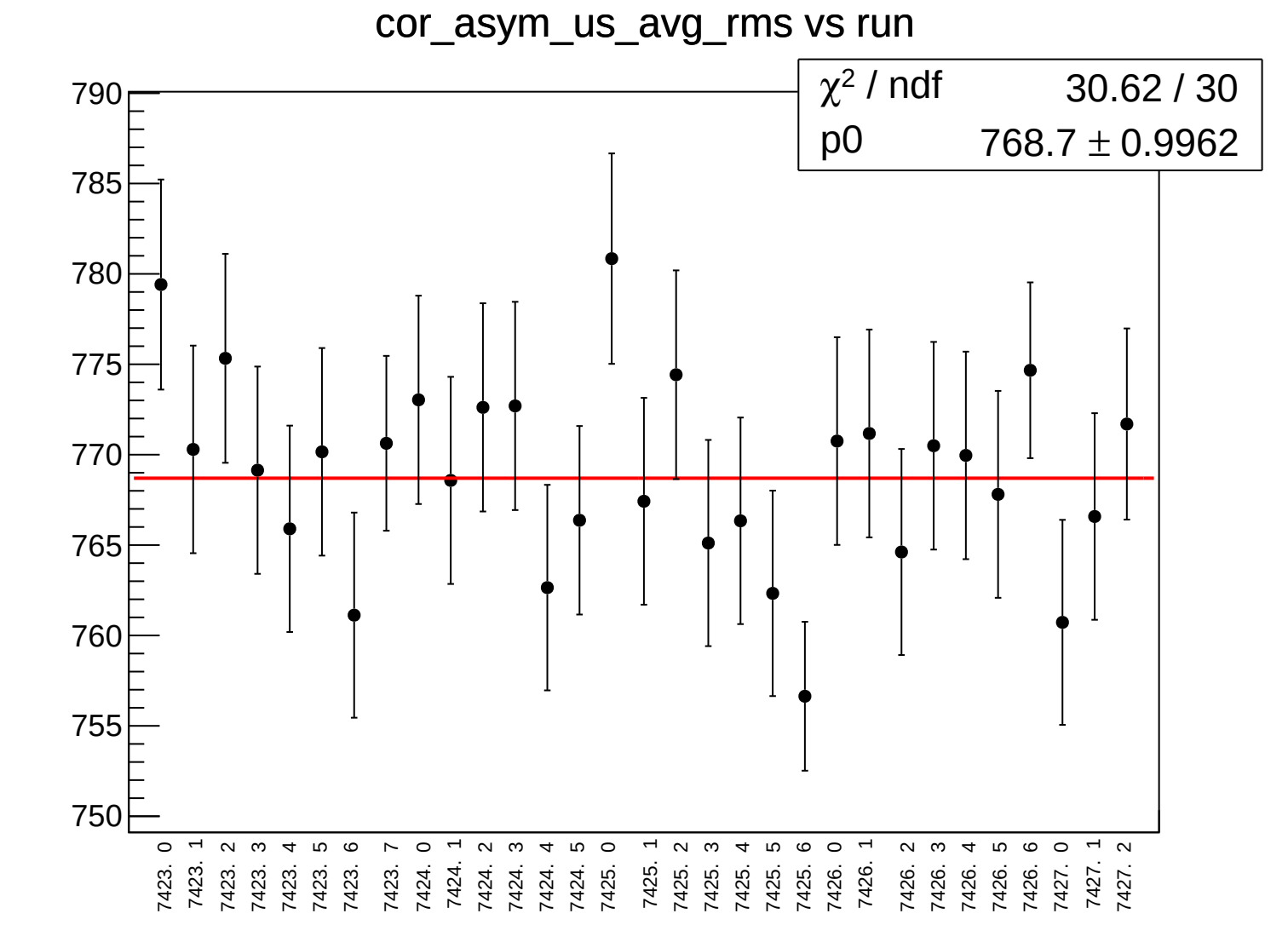

asym_us_avg_reg_correction_mean vs run
χ² / ndf 20.98 / 30
p0 1257 ± 2174
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 450
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

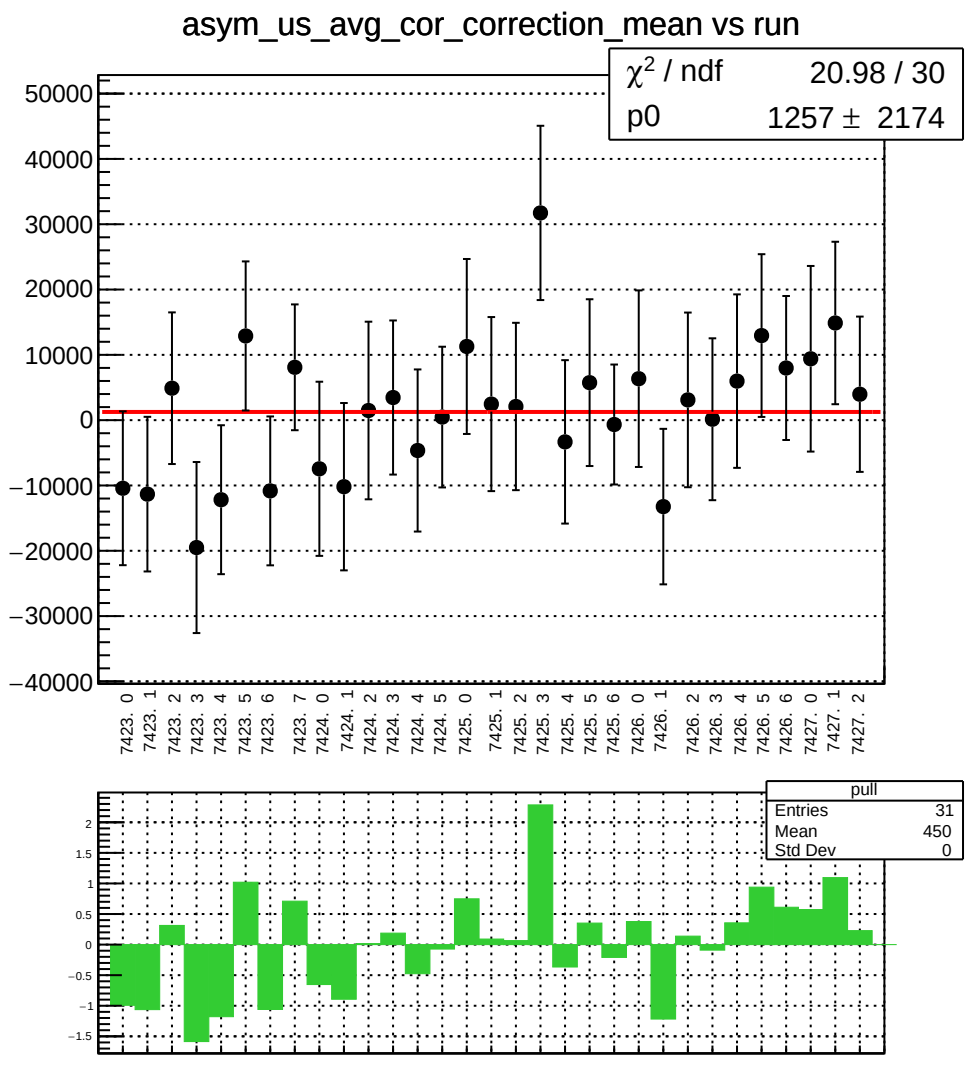

pull1D
Entries 31
Mean 0.007916
Std Dev 0.8225
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

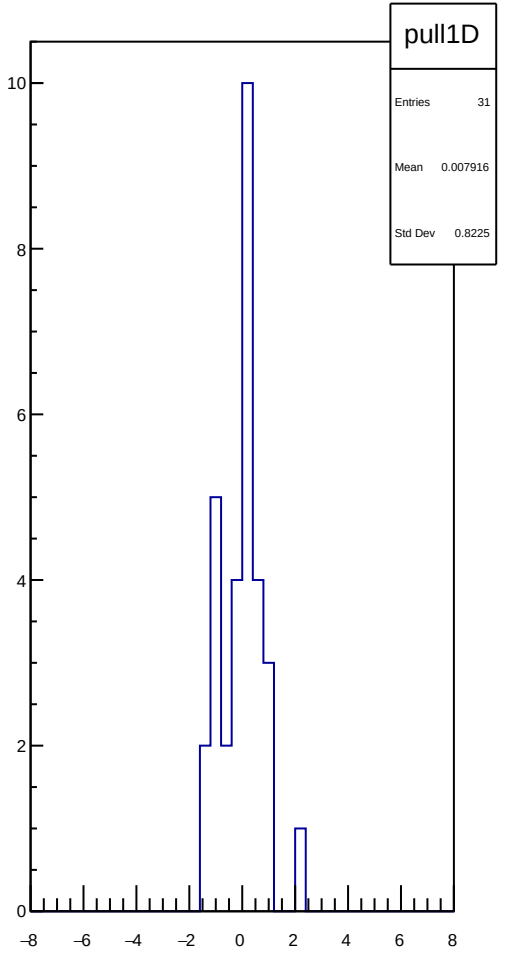

asym_us_avg_reg_correction_rms vs run
χ² / ndf 2187 / 30
p0 1184 ± 1.537
1350
1300
1250
1200
1150
1100
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

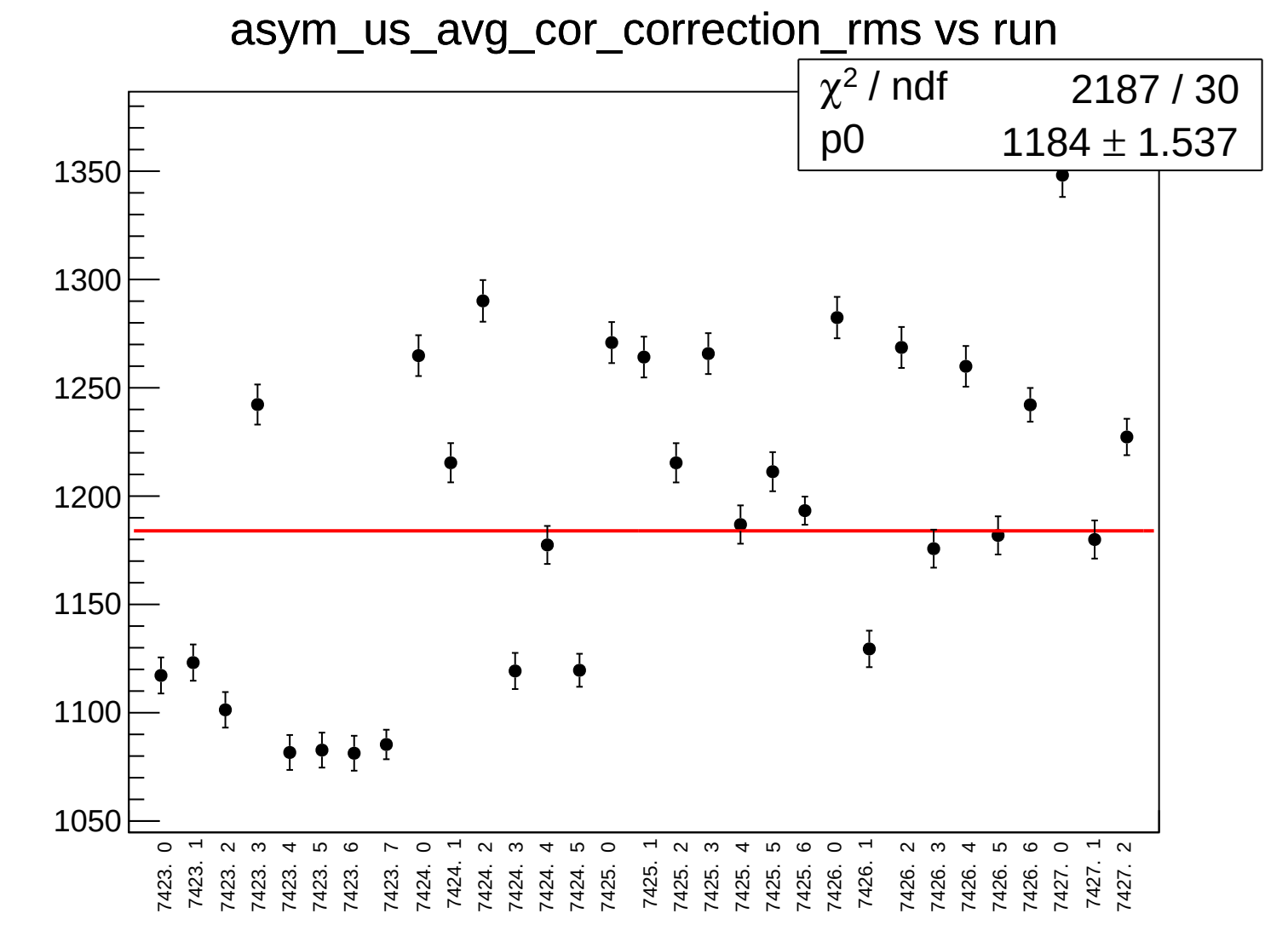

cor_asym_us_avg_mean vs run
χ² / ndf 24.87 / 30
p0 −1705 ± 1409
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.25
Std Dev 24.08
1.5
1
0.5
0
−0.5
−1
−1.5
−2

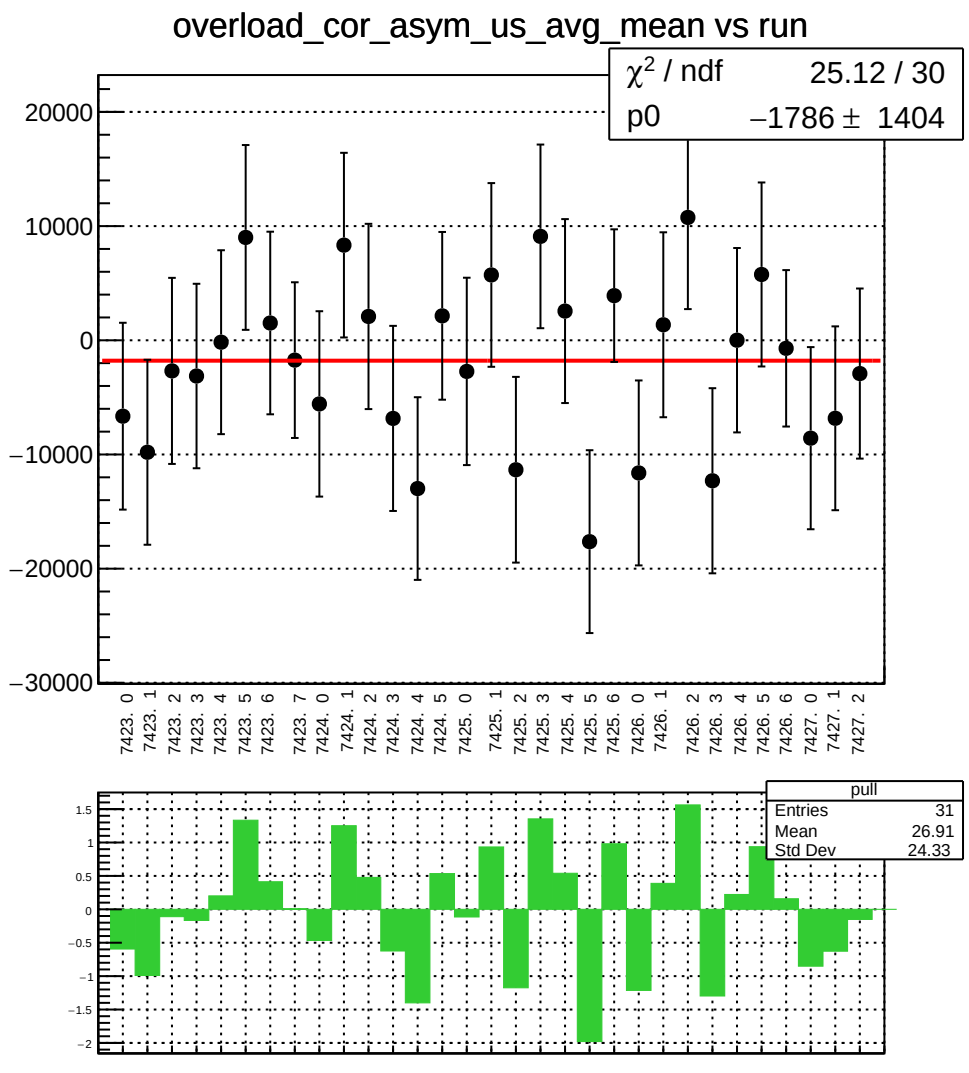

pull1D
Entries 31
Mean −0.01475
Std Dev 0.8956
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

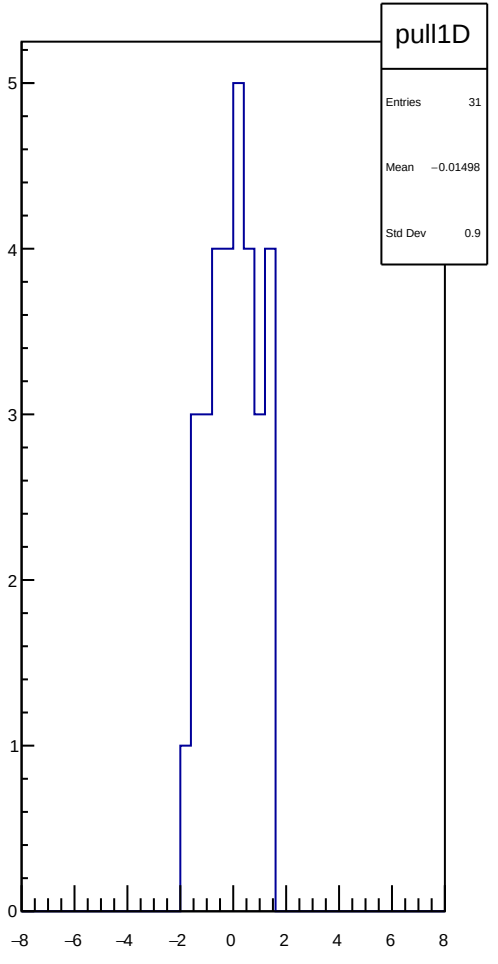

cor_asym_us_avg_rms vs run
χ² / ndf 30.62 / 30
p0 768.7 ± 0.9962
790
785
780
775
770
765
760
755
750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

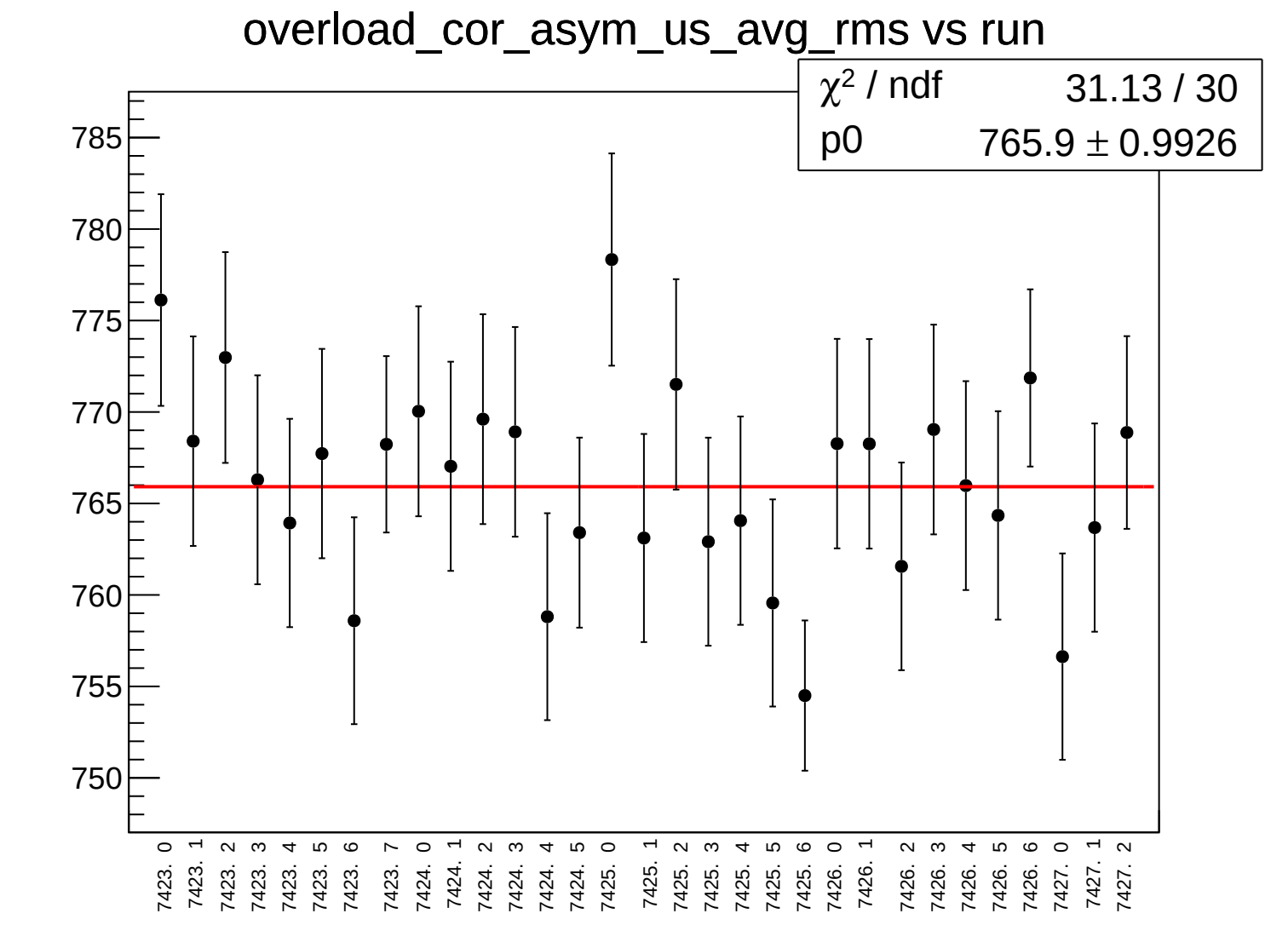

asym_us_avg_cor_correction_mean vs run
χ² / ndf 20.98 / 30
p0 1257 ± 2174
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 450
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

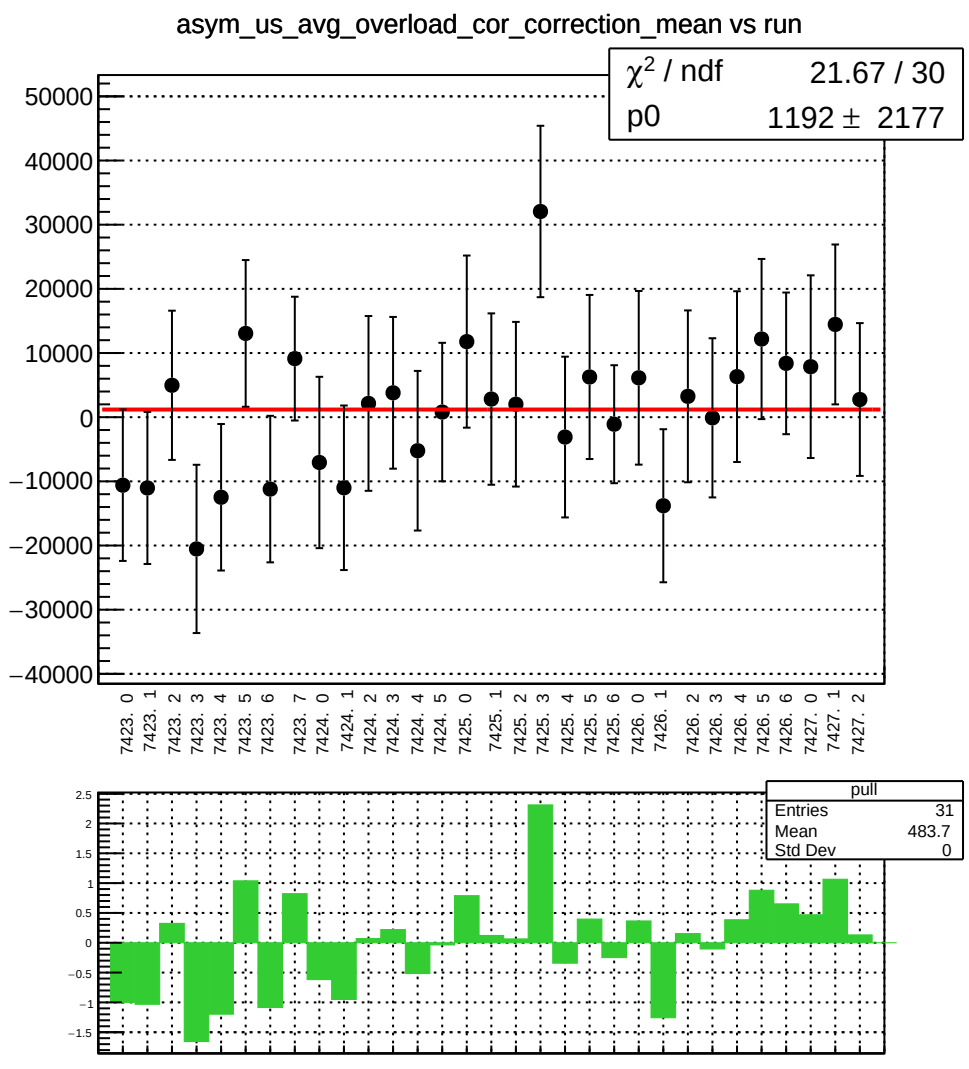

pull1D
Entries 31
Mean 0.007916
Std Dev 0.8225
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

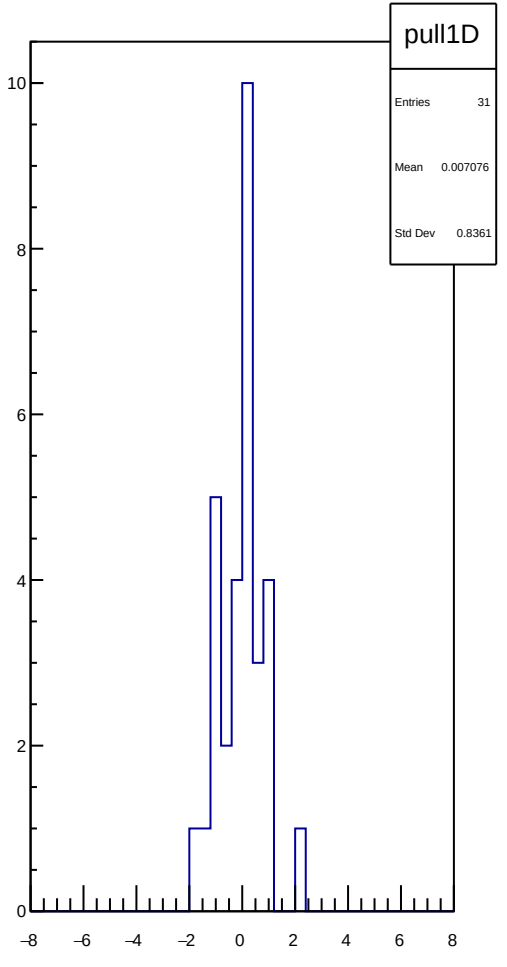

asym_us_avg_cor_correction_rms vs run
χ² / ndf 2187 / 30
p0 1184 ± 1.537
1350
1300
1250
1200
1150
1100
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

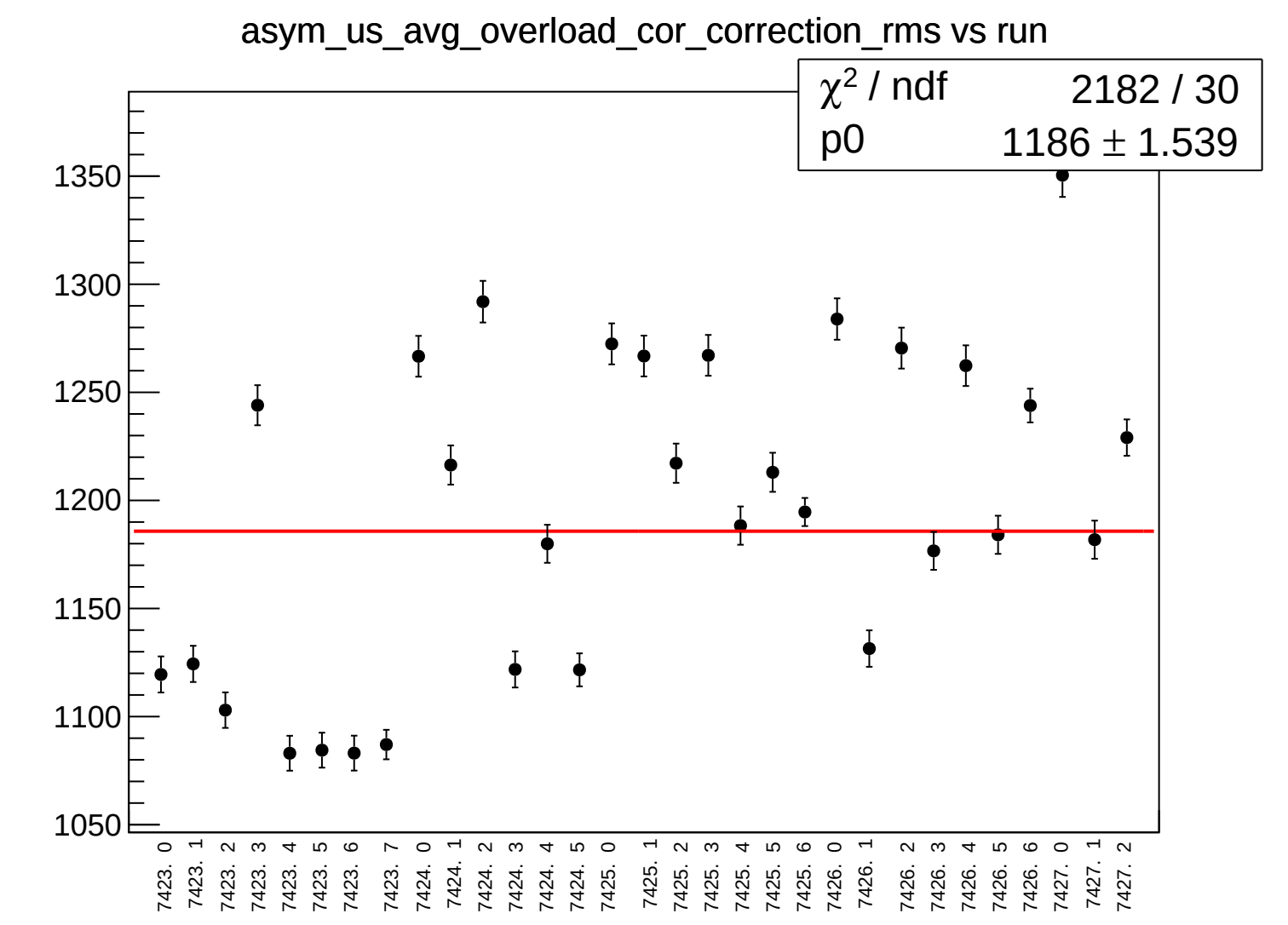

overload_cor_asym_us_avg_mean vs run
χ² / ndf 25.12 / 30
p0 −1786 ± 1404
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 26.91
Std Dev 24.33
1.5
1
0.5
0
−0.5
−1
−1.5
−2

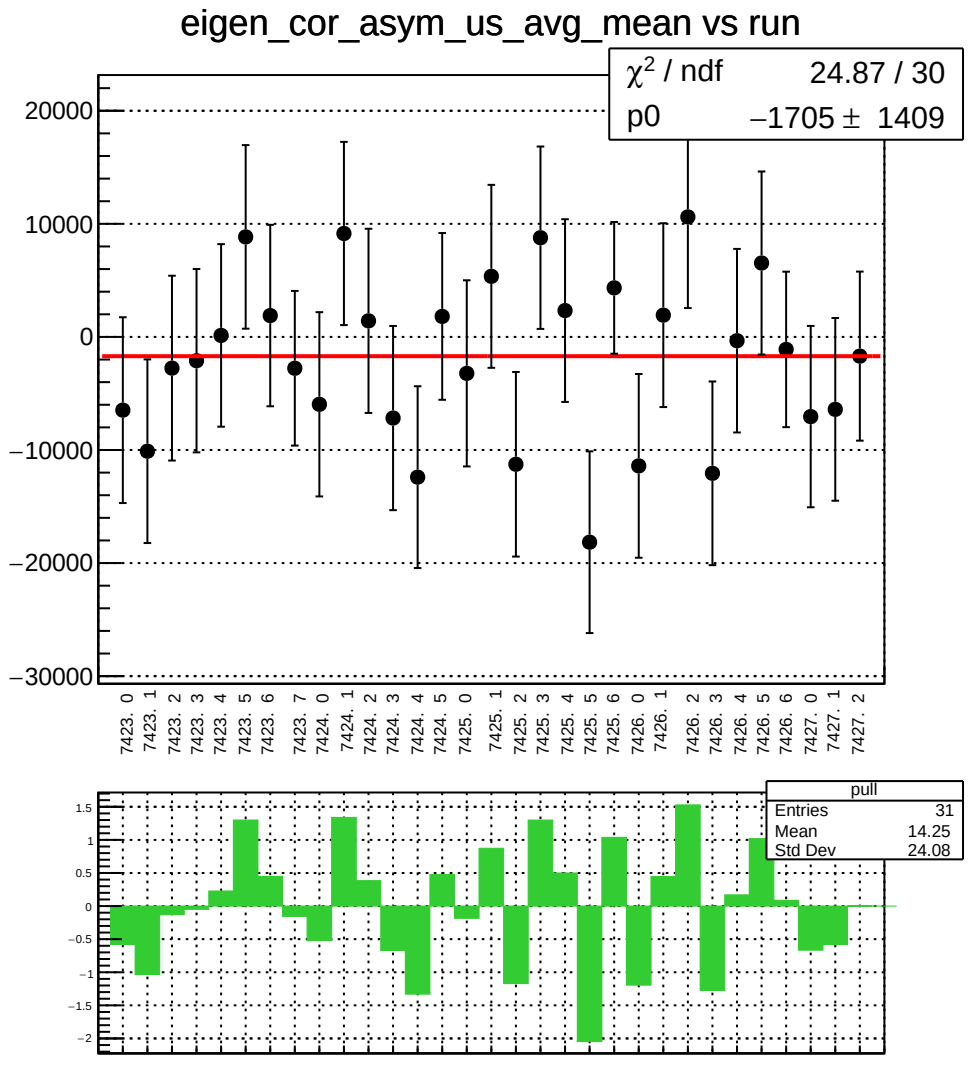

pull1D
Entries 31
Mean −0.01498
Std Dev 0.9
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

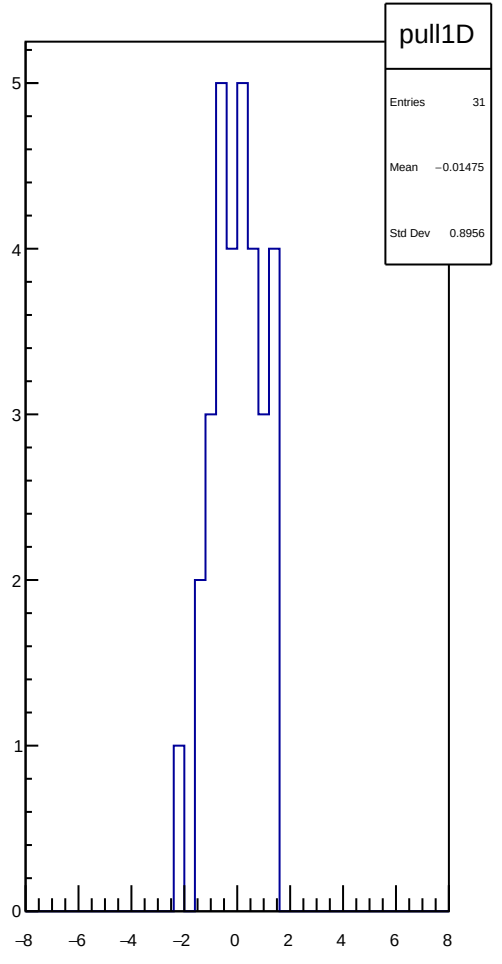

overload_cor_asym_us_avg_rms vs run
χ² / ndf 31.13 / 30
p0 765.9 ± 0.9926
785
780
775
770
765
760
755
750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

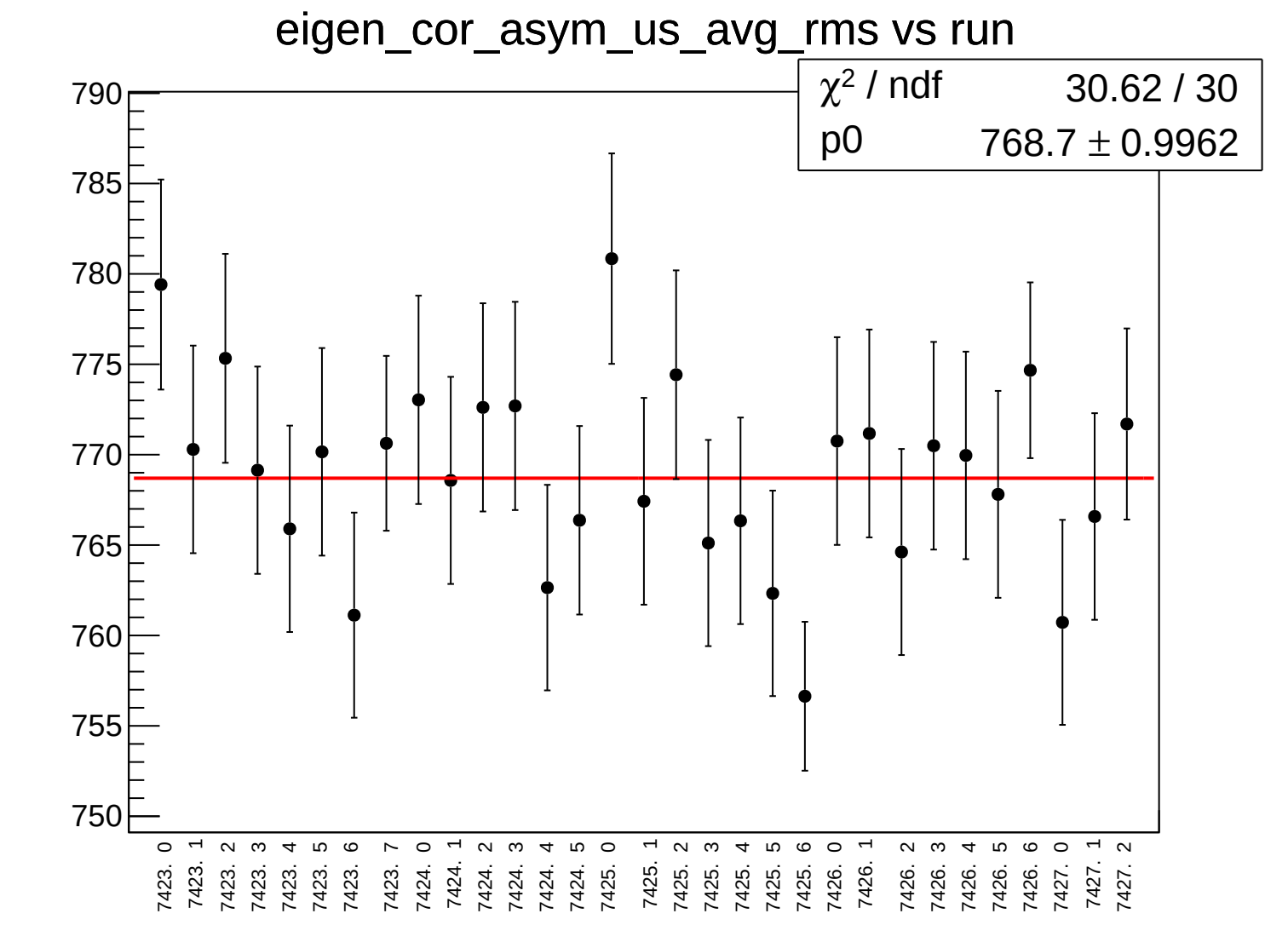

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 21.67 / 30
p0 1192 ± 2177
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 483.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

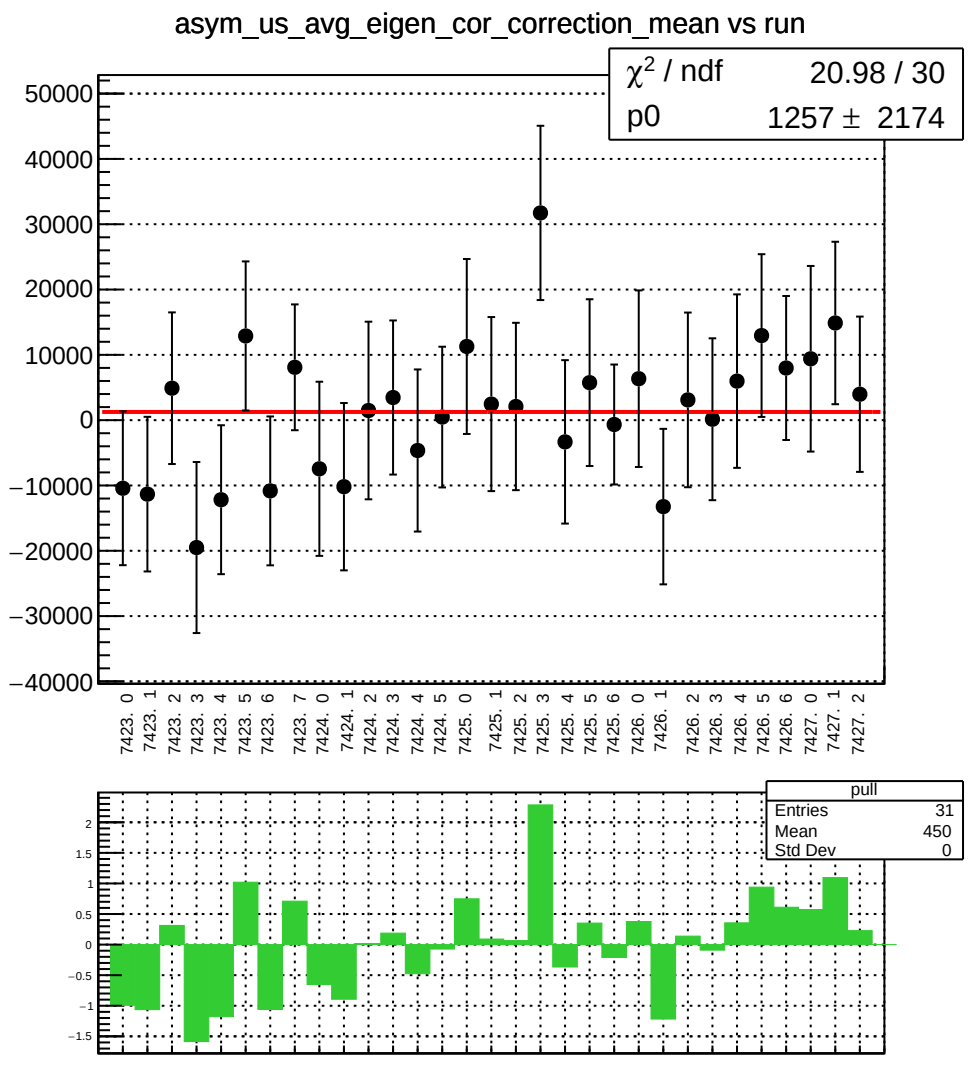

pull1D
Entries 31
Mean 0.007076
Std Dev 0.8361
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

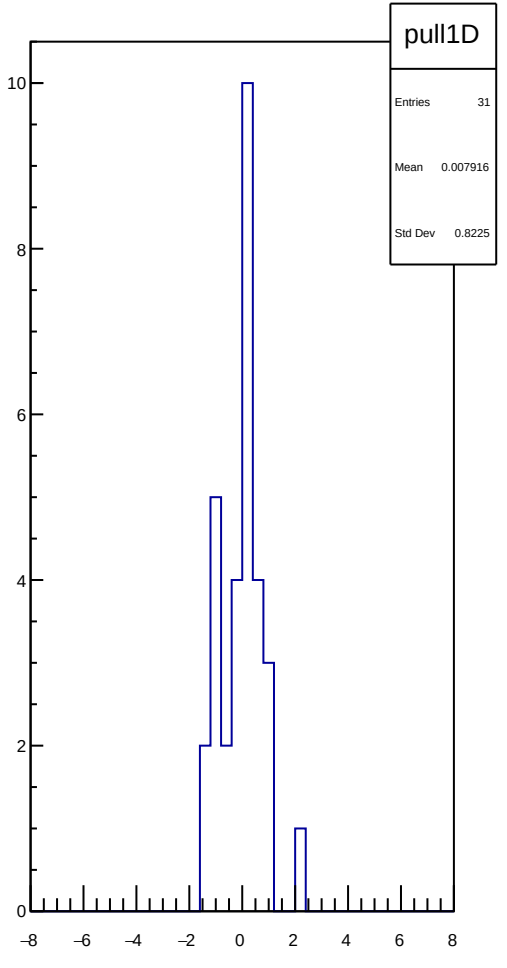

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 2182 / 30
p0 1186 ± 1.539
1350
1300
1250
1200
1150
1100
1050
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

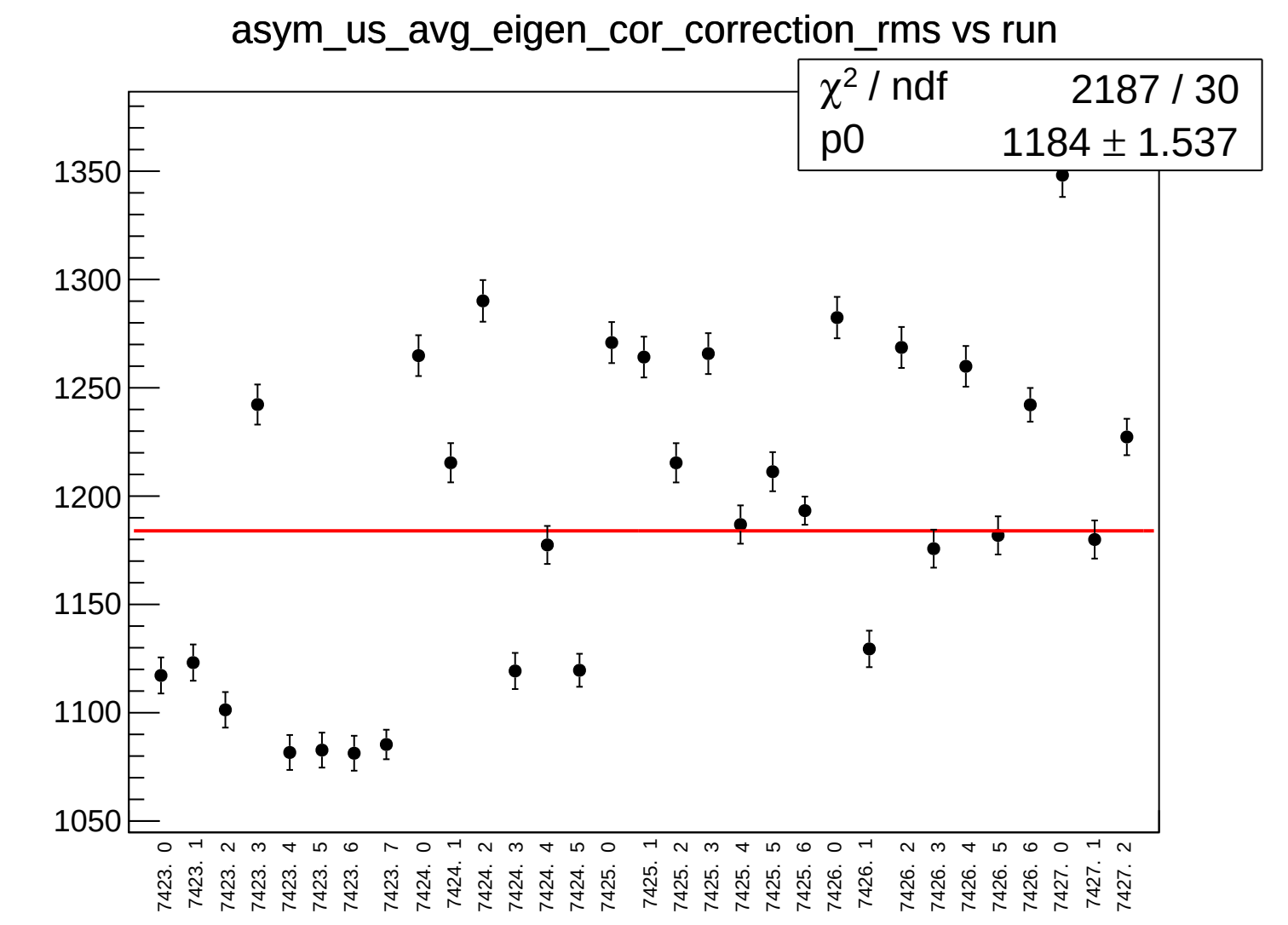

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 24.87 / 30
p0 −1705 ± 1409
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.25
Std Dev 24.08
1.5
1
0.5
0
−0.5
−1
−1.5
−2

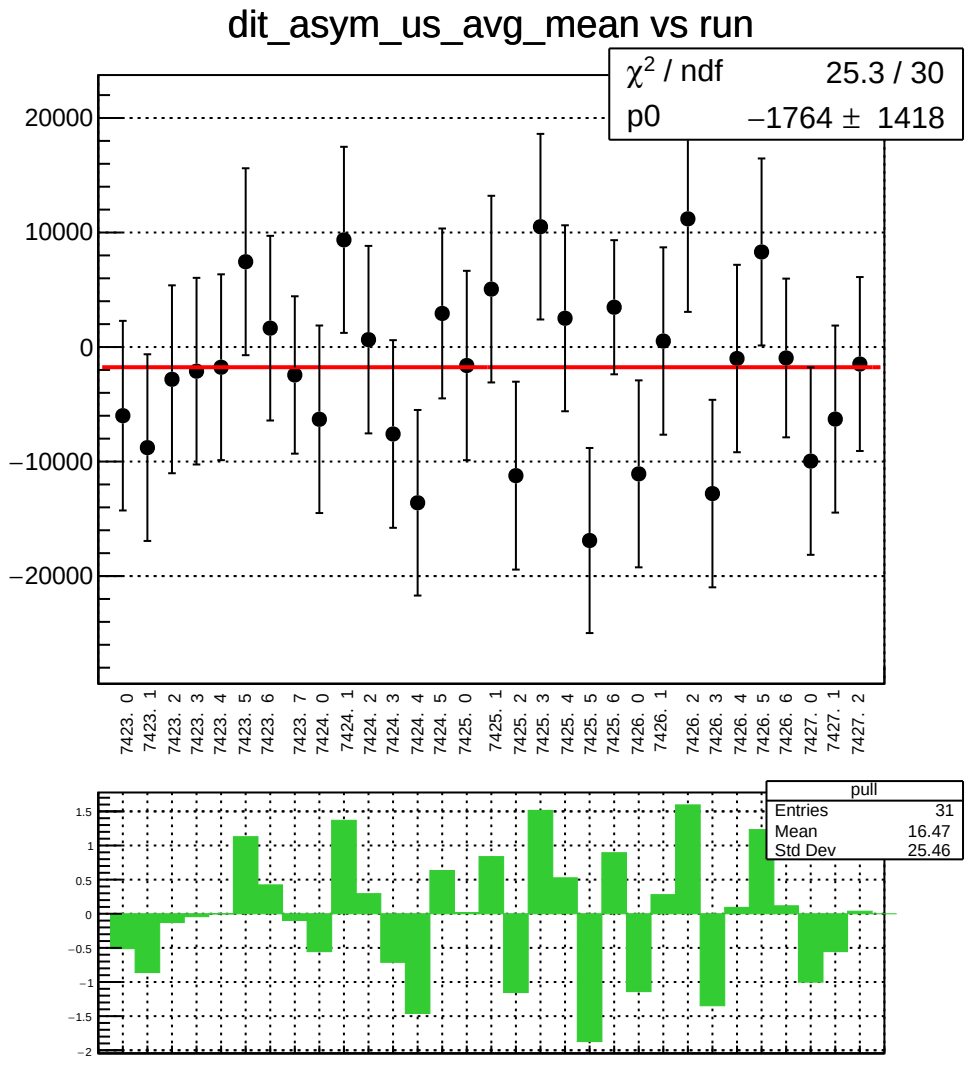

pull1D
Entries 31
Mean −0.01475
Std Dev 0.8956
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

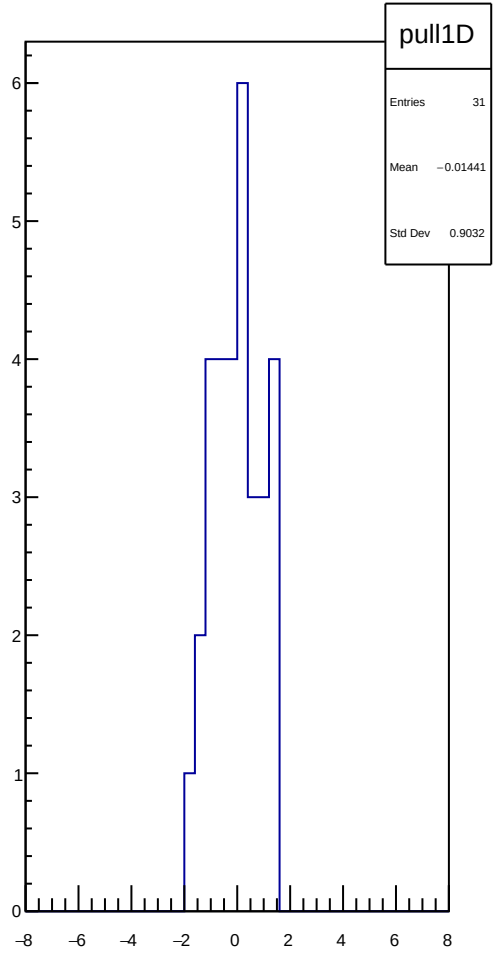

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 30.62 / 30
p0 768.7 ± 0.9962
790
785
780
775
770
765
760
755
750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

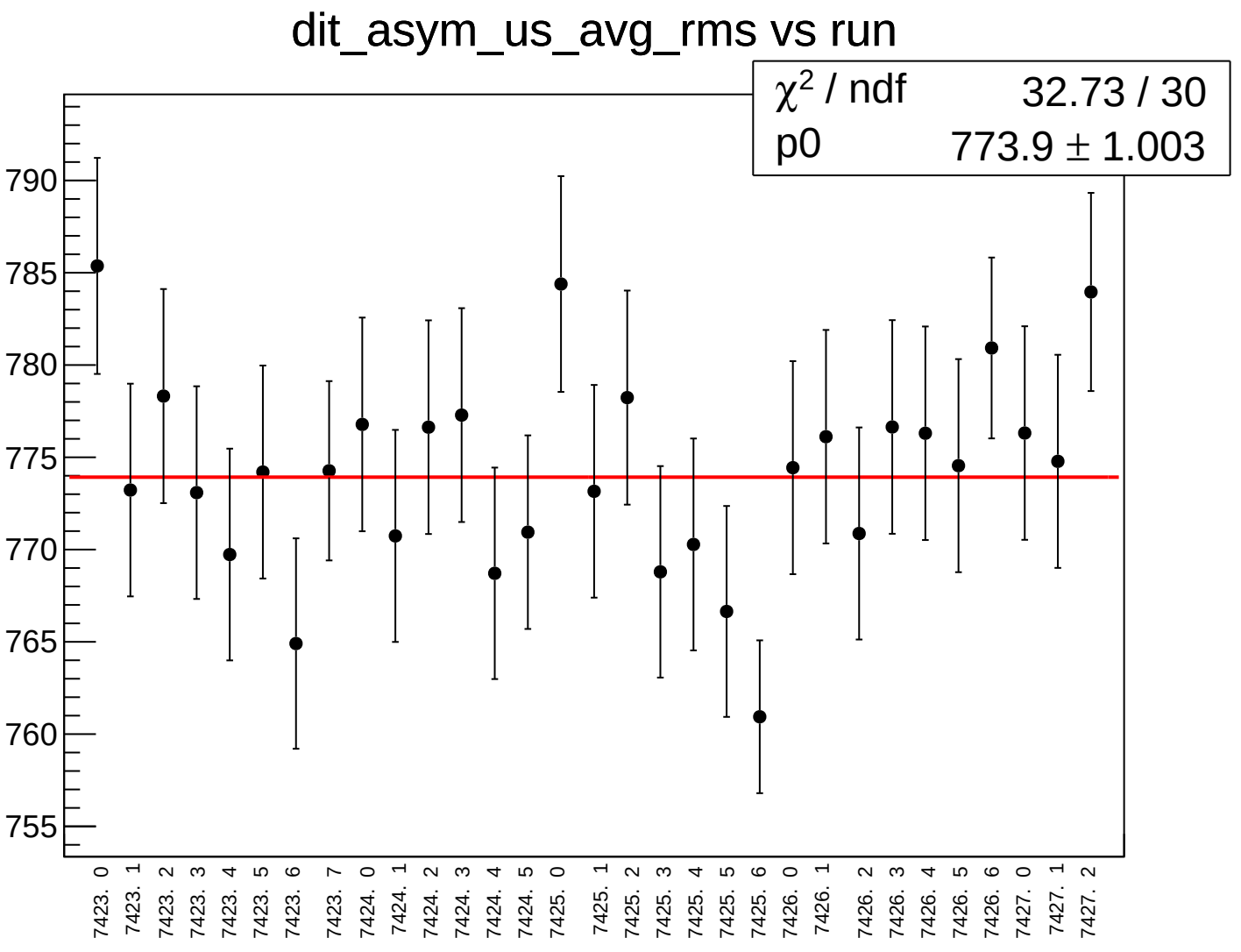

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 20.98 / 30
p0 1257 ± 2174
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 450
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

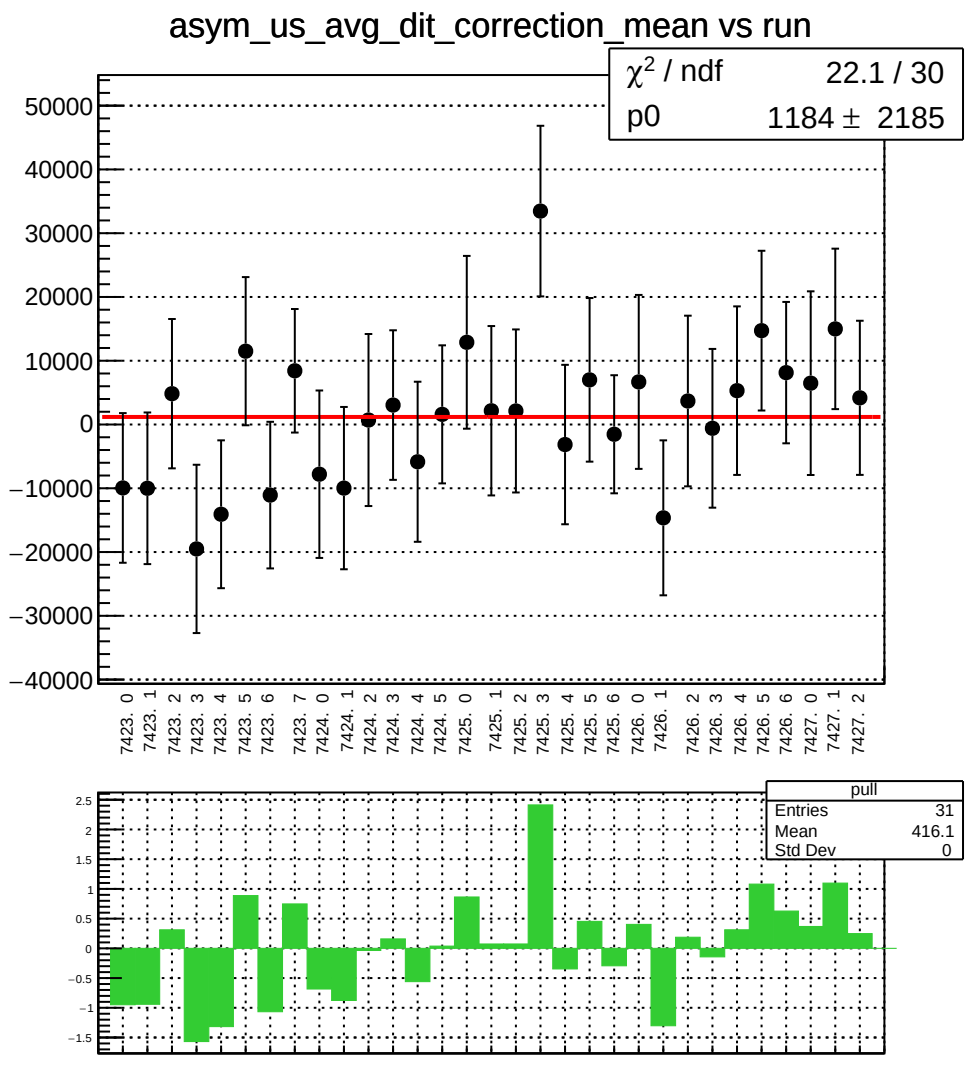

pull1D
Entries 31
Mean 0.007916
Std Dev 0.8225
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

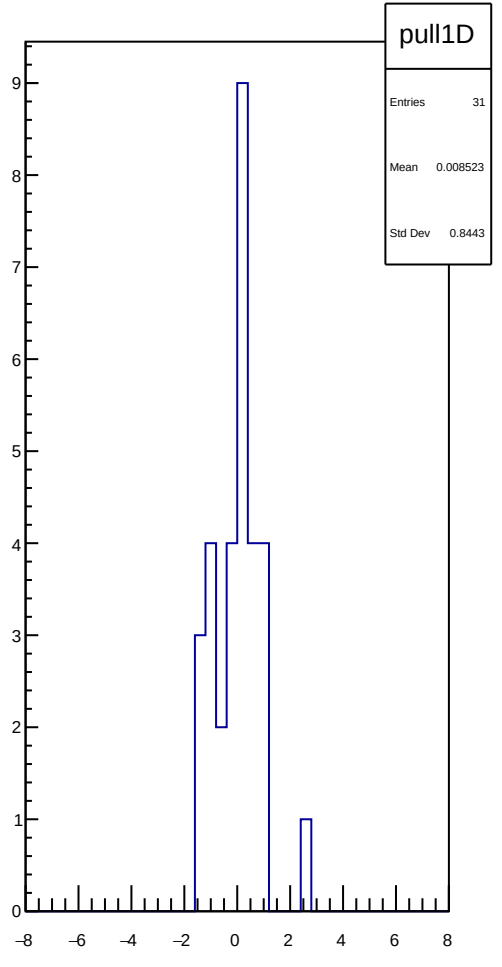

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 2187 / 30
p0 1184 ± 1.537
1350
1300
1250
1200
1150
1100
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

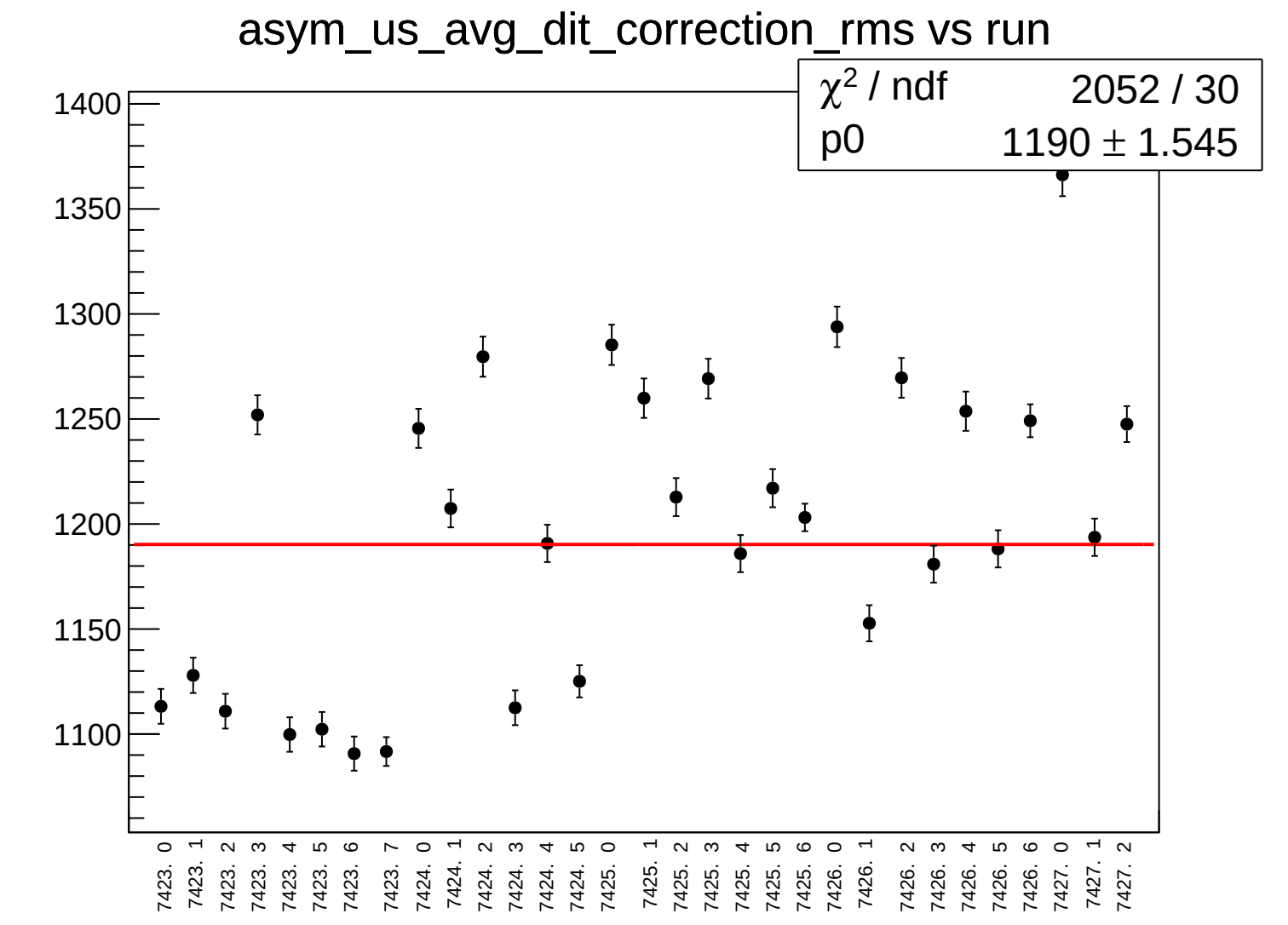

dit_asym_us_avg_mean vs run
χ² / ndf 25.3 / 30
p0 −1764 ± 1418
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.47
Std Dev 25.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2

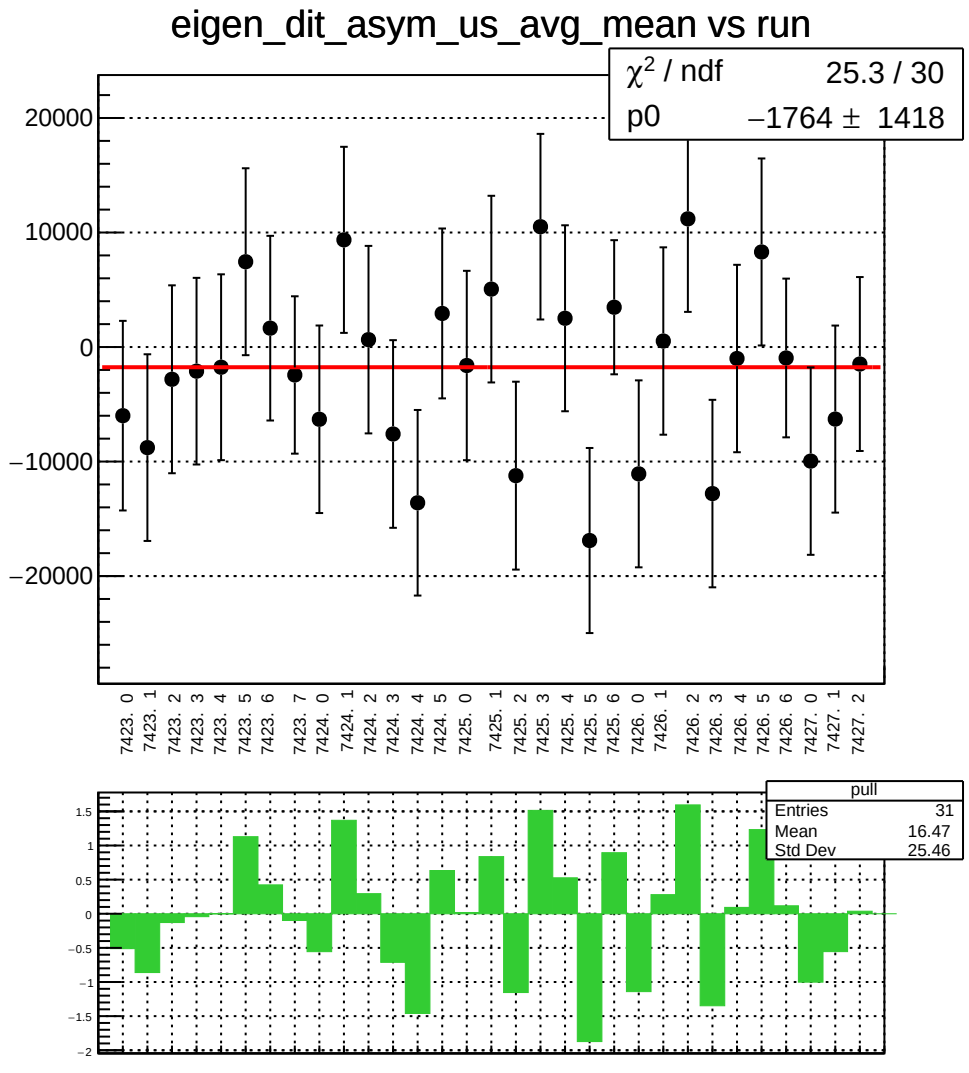

pull1D
Entries 31
Mean −0.01441
Std Dev 0.9032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

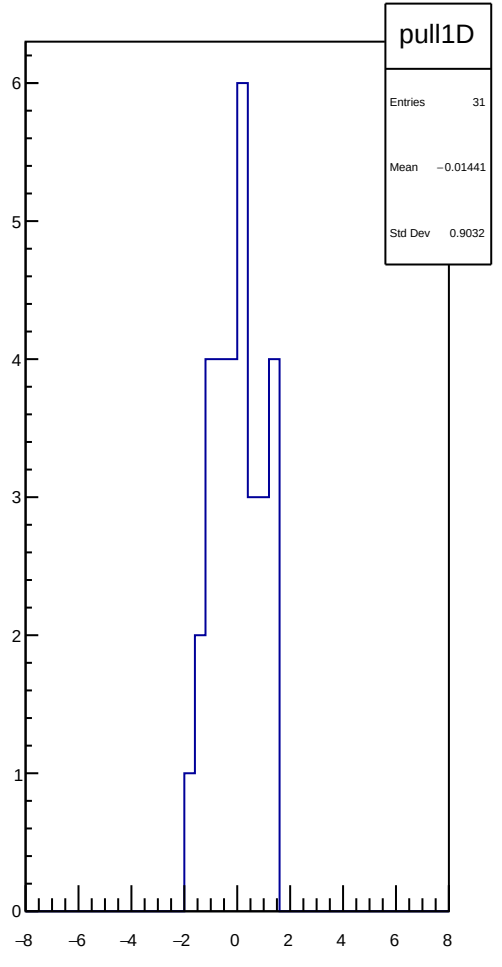

dit_asym_us_avg_rms vs run
χ² / ndf 32.73 / 30
p0 773.9 ± 1.003
790
785
780
775
770
765
760
755
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

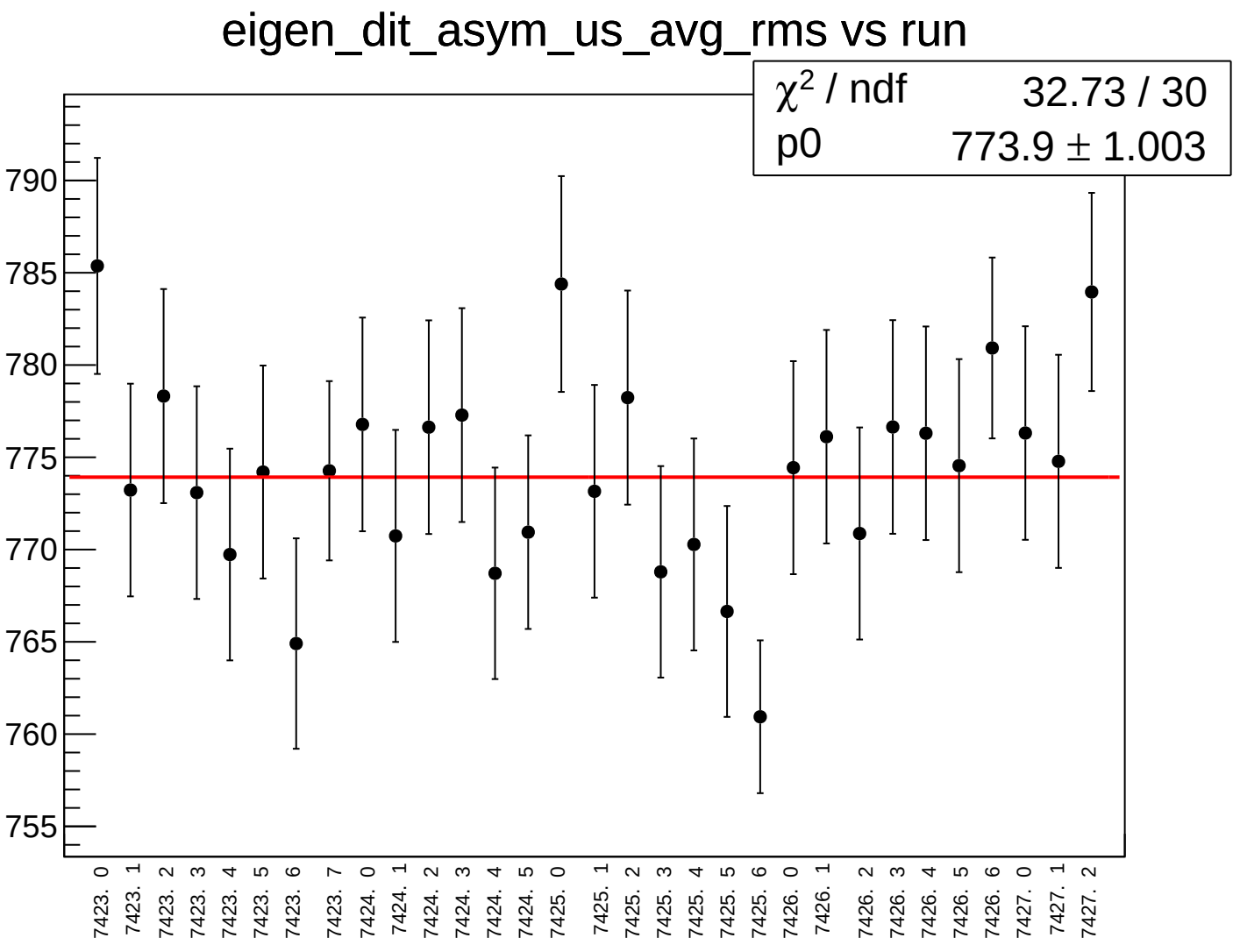

asym_us_avg_dit_correction_mean vs run
χ² / ndf 22.1 / 30
p0 1184 ± 2185
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 416.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

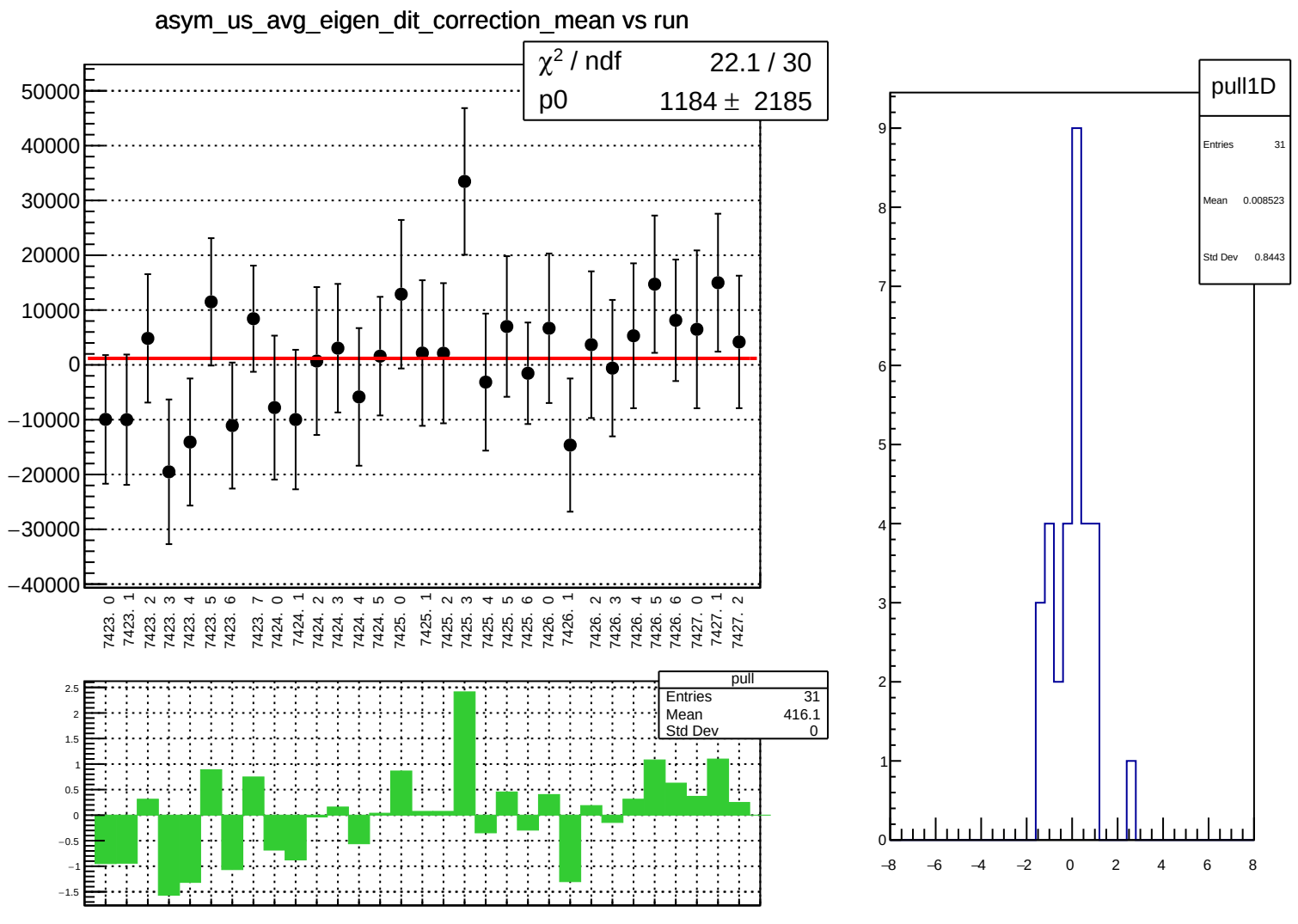

pull1D
Entries 31
Mean 0.008523
Std Dev 0.8443
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

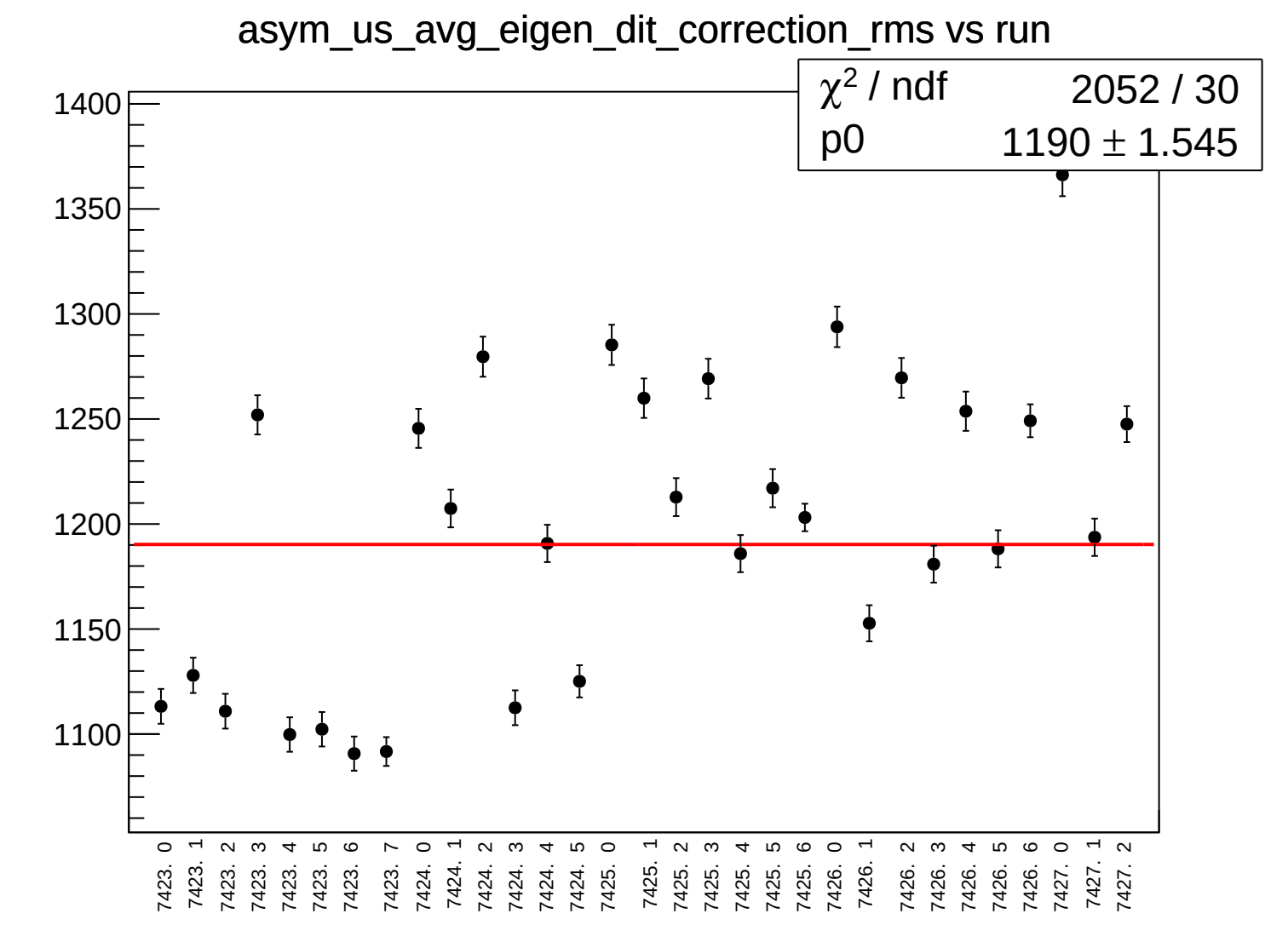

asym_us_avg_dit_correction_rms vs run
χ² / ndf 2052 / 30
p0 1190 ± 1.545
1400
1350
1300
1250
1200
1150
1100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

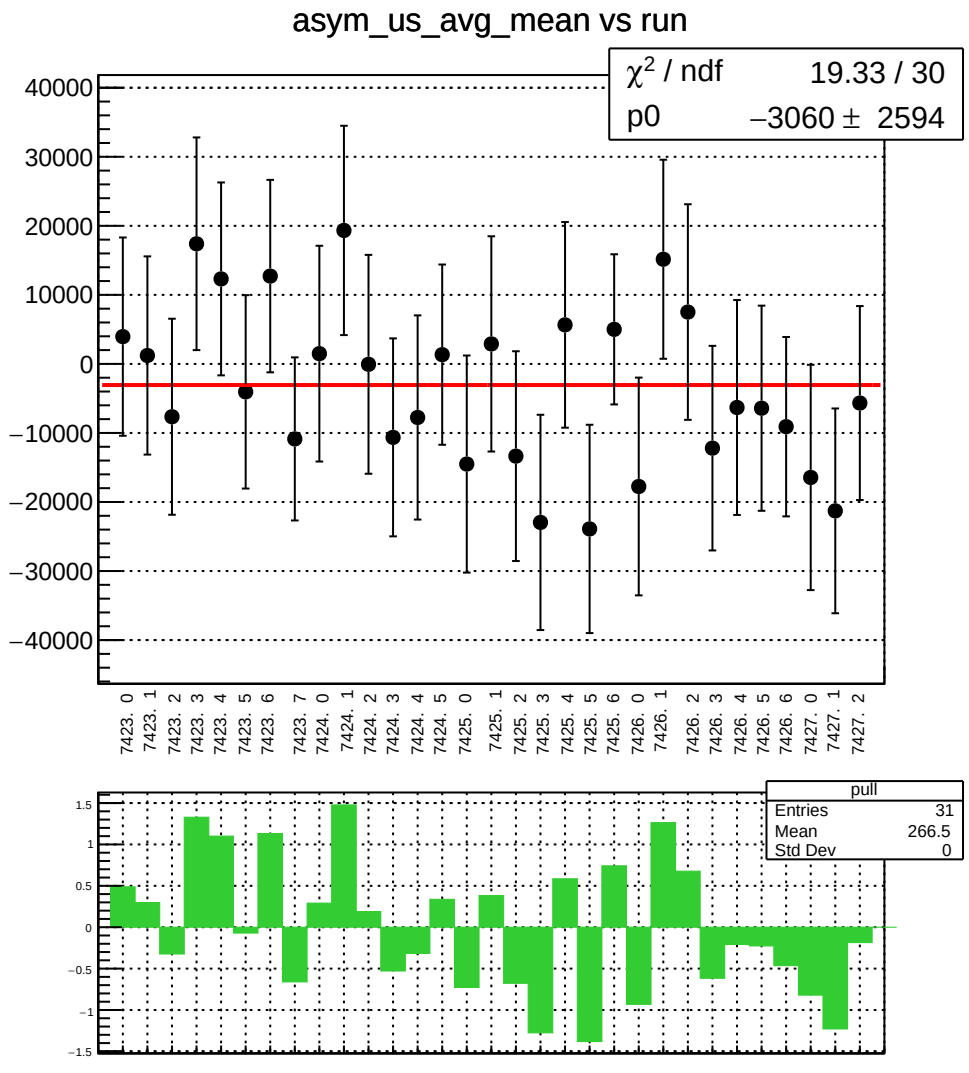

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 25.3 / 30
p0 −1764 ± 1418
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.47
Std Dev 25.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2

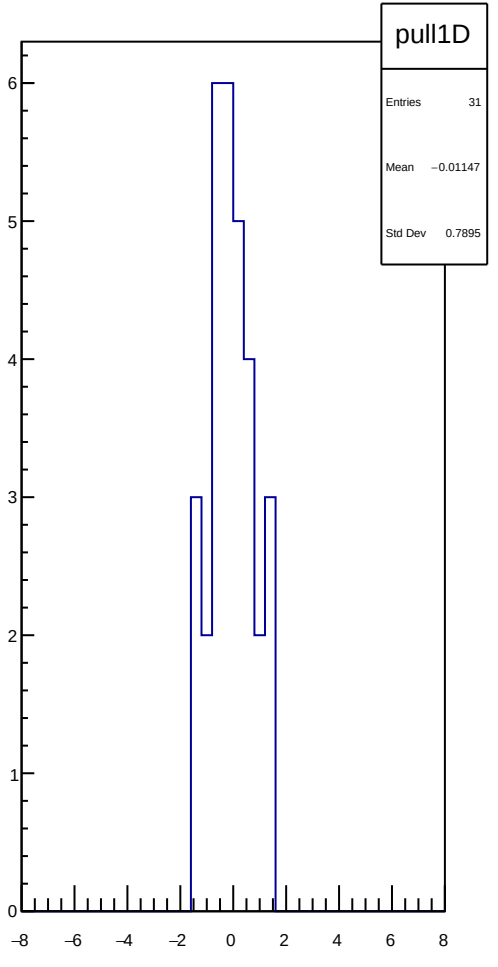

pull1D
Entries 31
Mean −0.01441
Std Dev 0.9032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

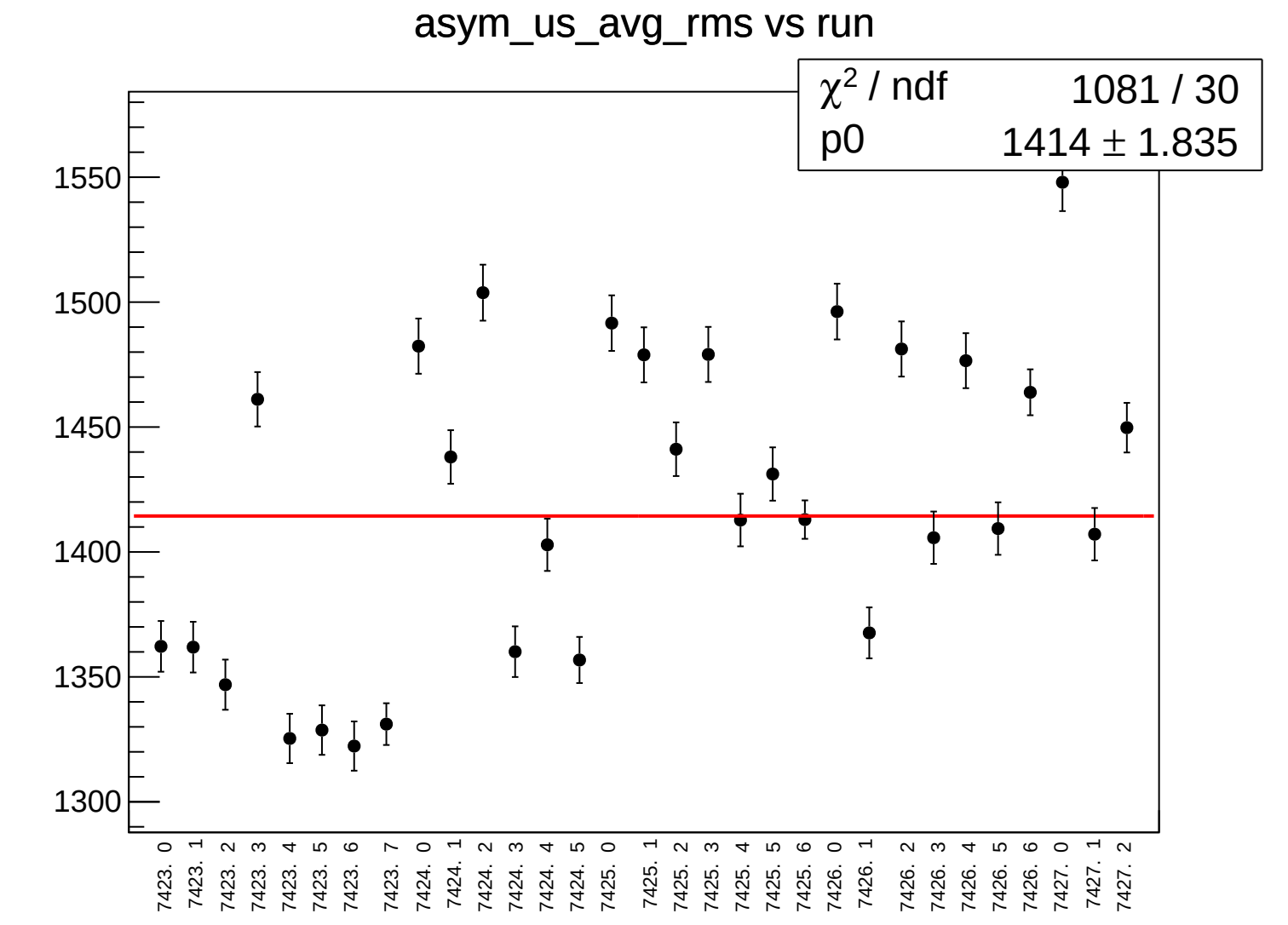

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 32.73 / 30
p0 773.9 ± 1.003
790
785
780
775
770
765
760
755
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

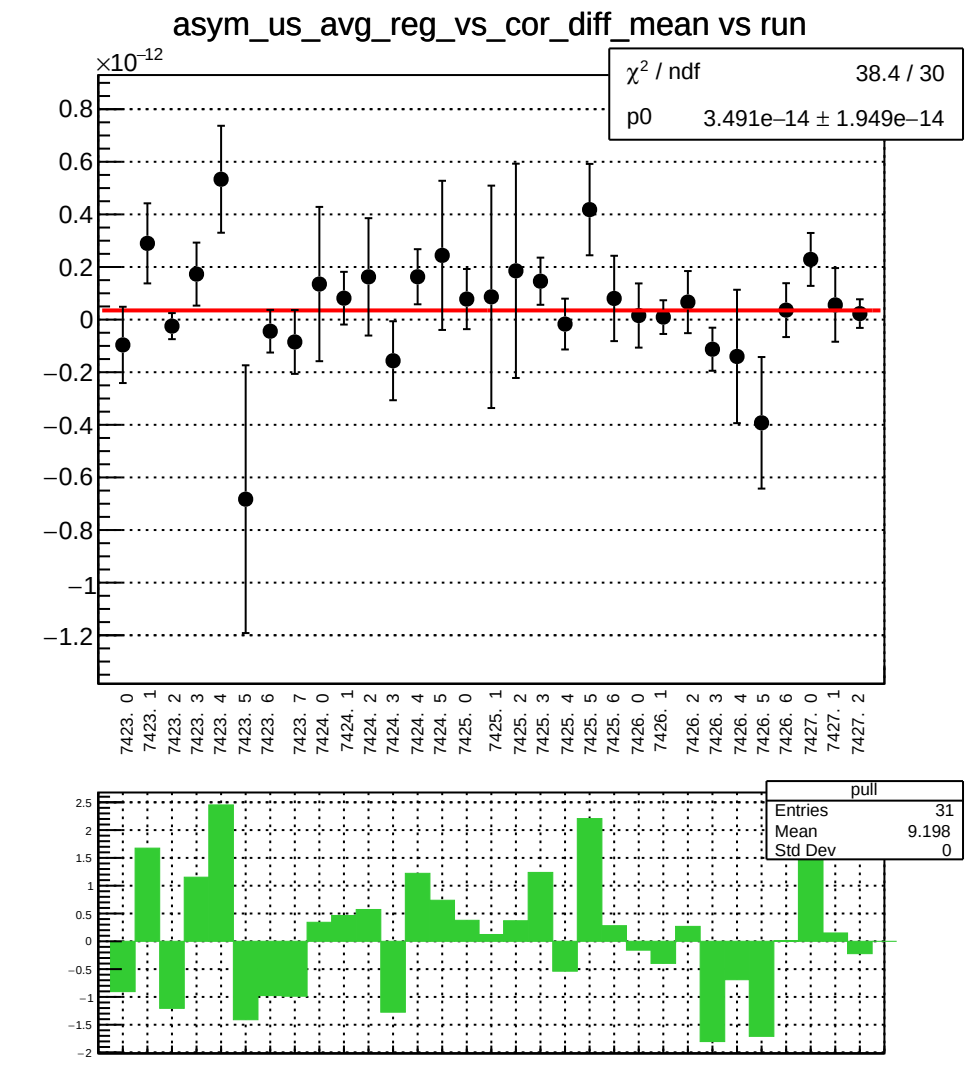

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 22.1 / 30
p0 1184 ± 2185
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 416.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.008523
Std Dev 0.8443
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

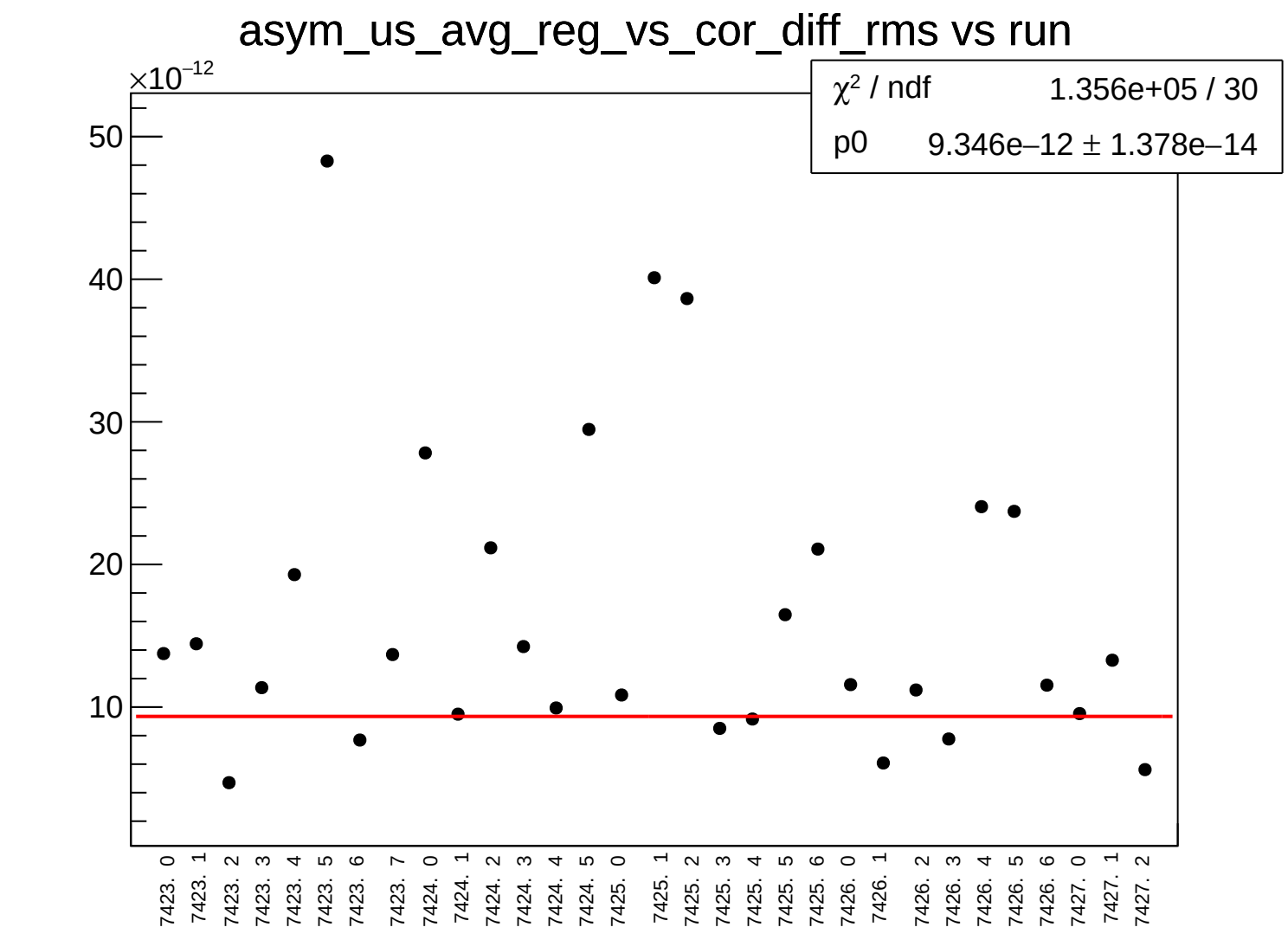

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 2052 / 30
p0 1190 ± 1.545
1400
1350
1300
1250
1200
1150
1100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

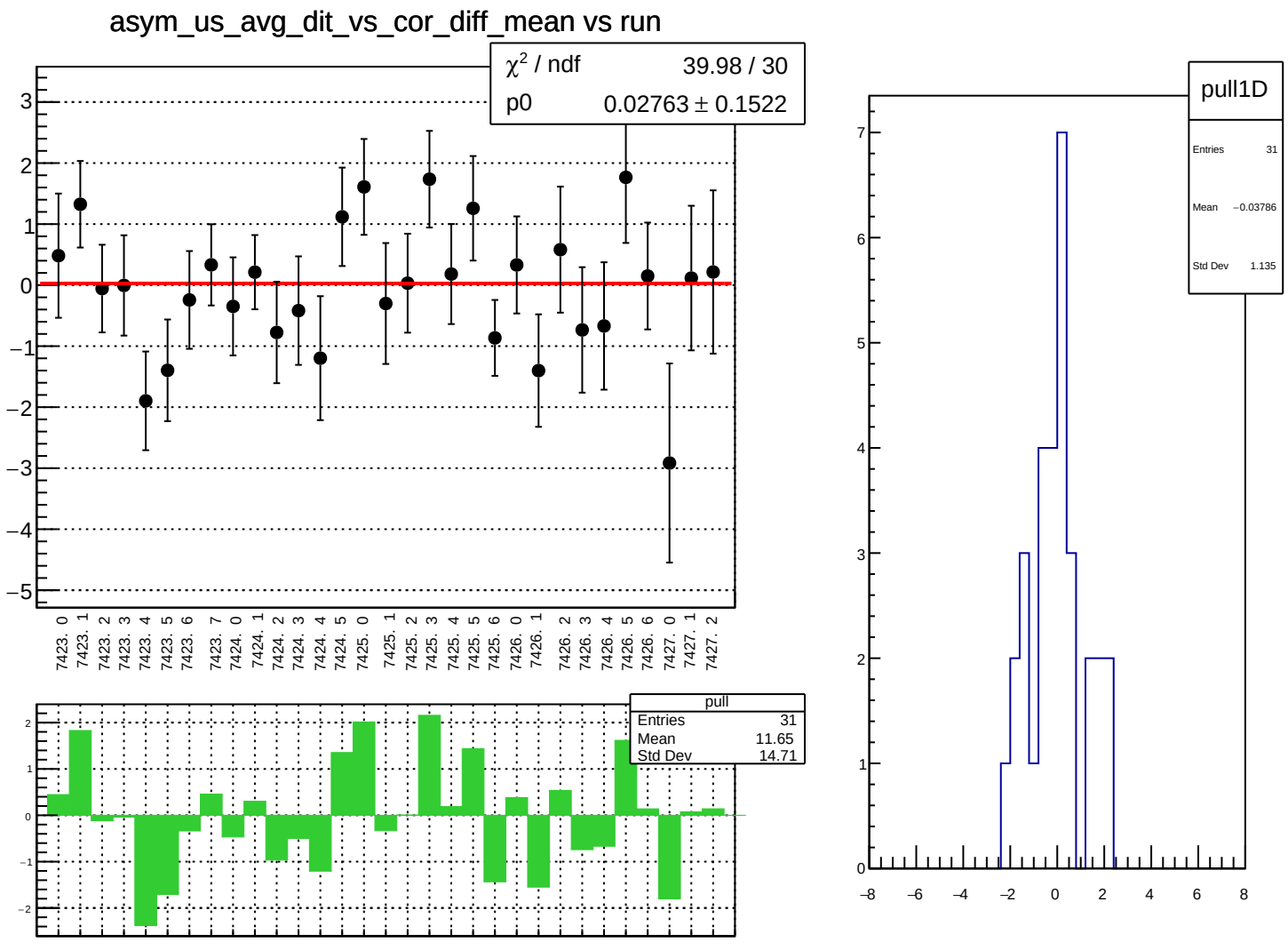

asym_us_avg_mean vs run
χ² / ndf 19.33 / 30
p0 −3060 ± 2594
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 266.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

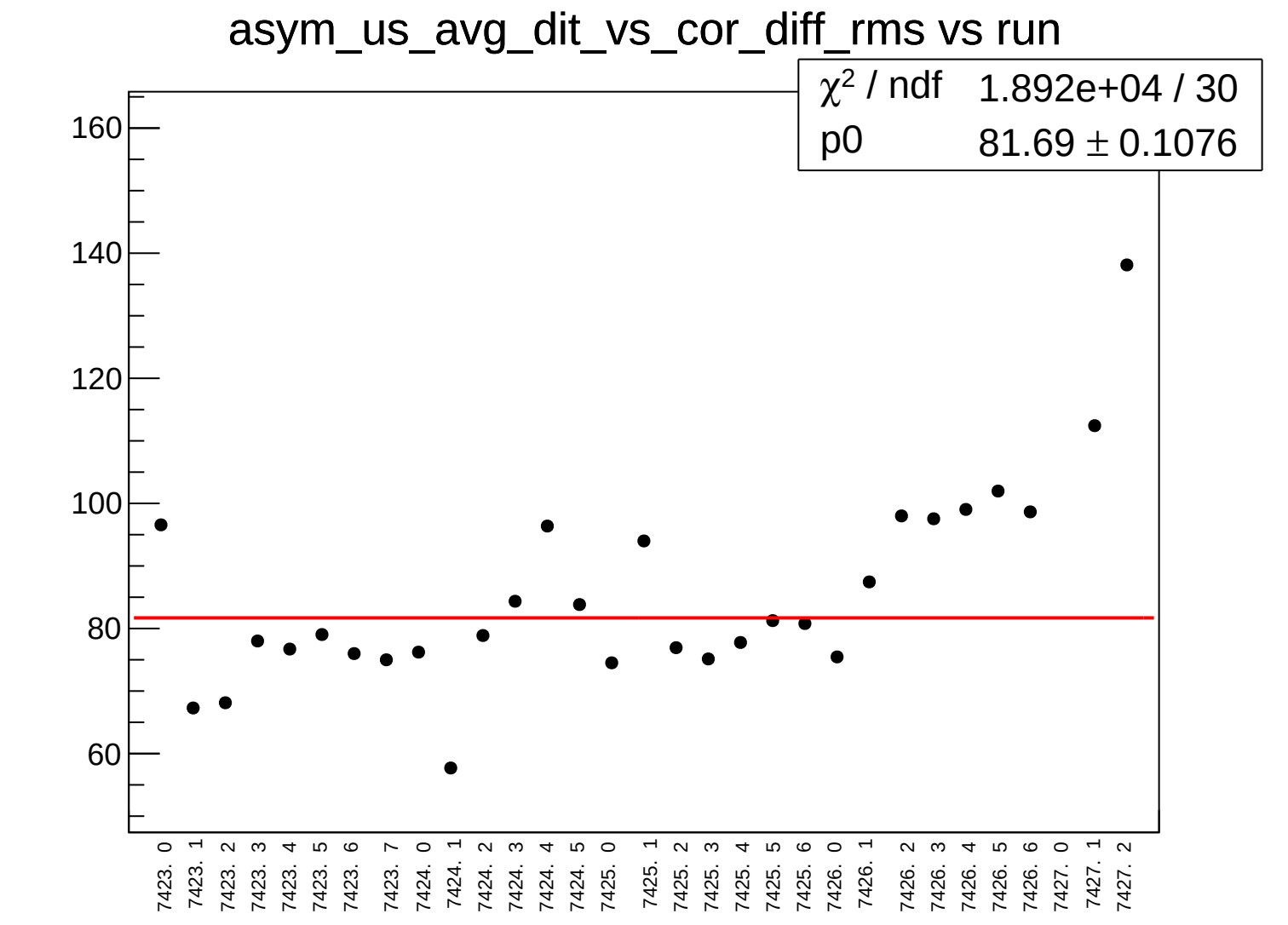

pull1D
Entries 31
Mean −0.01147
Std Dev 0.7895
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

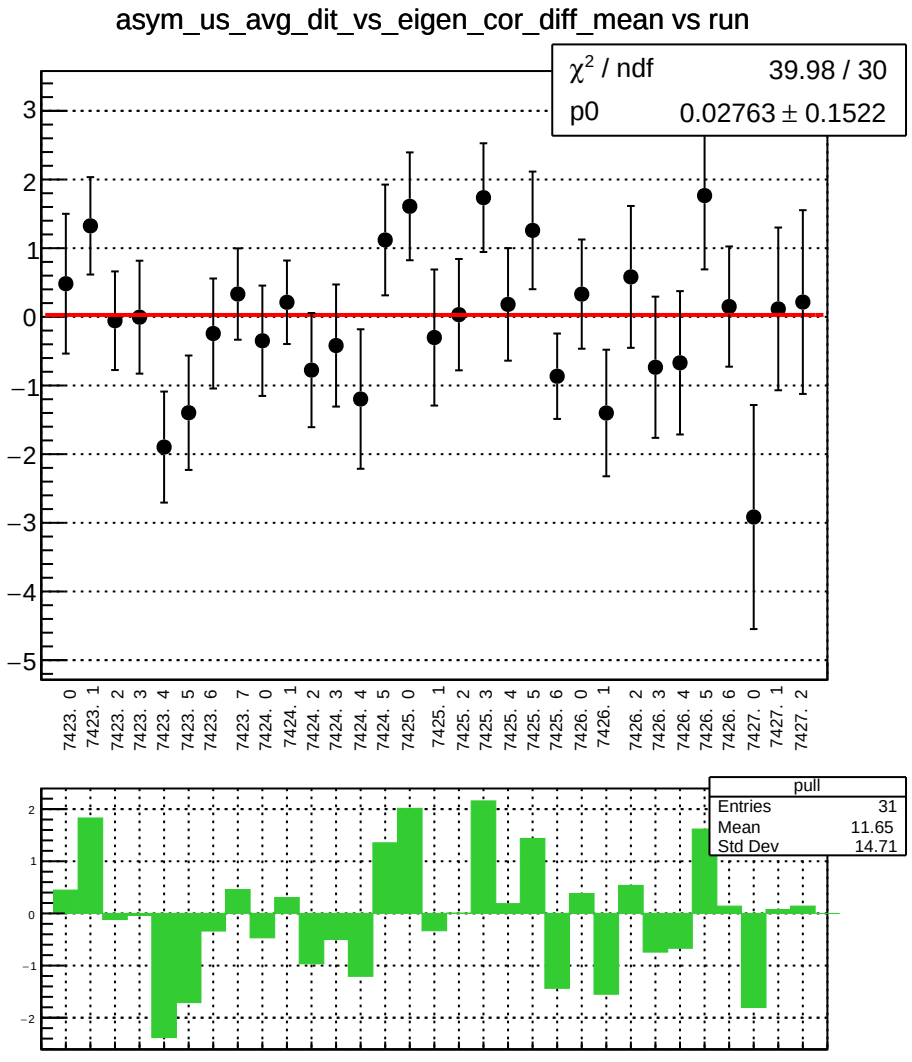

asym_us_avg_rms vs run
χ² / ndf 1081 / 30
p0 1414 ± 1.835
1550
1500
1450
1400
1350
1300
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

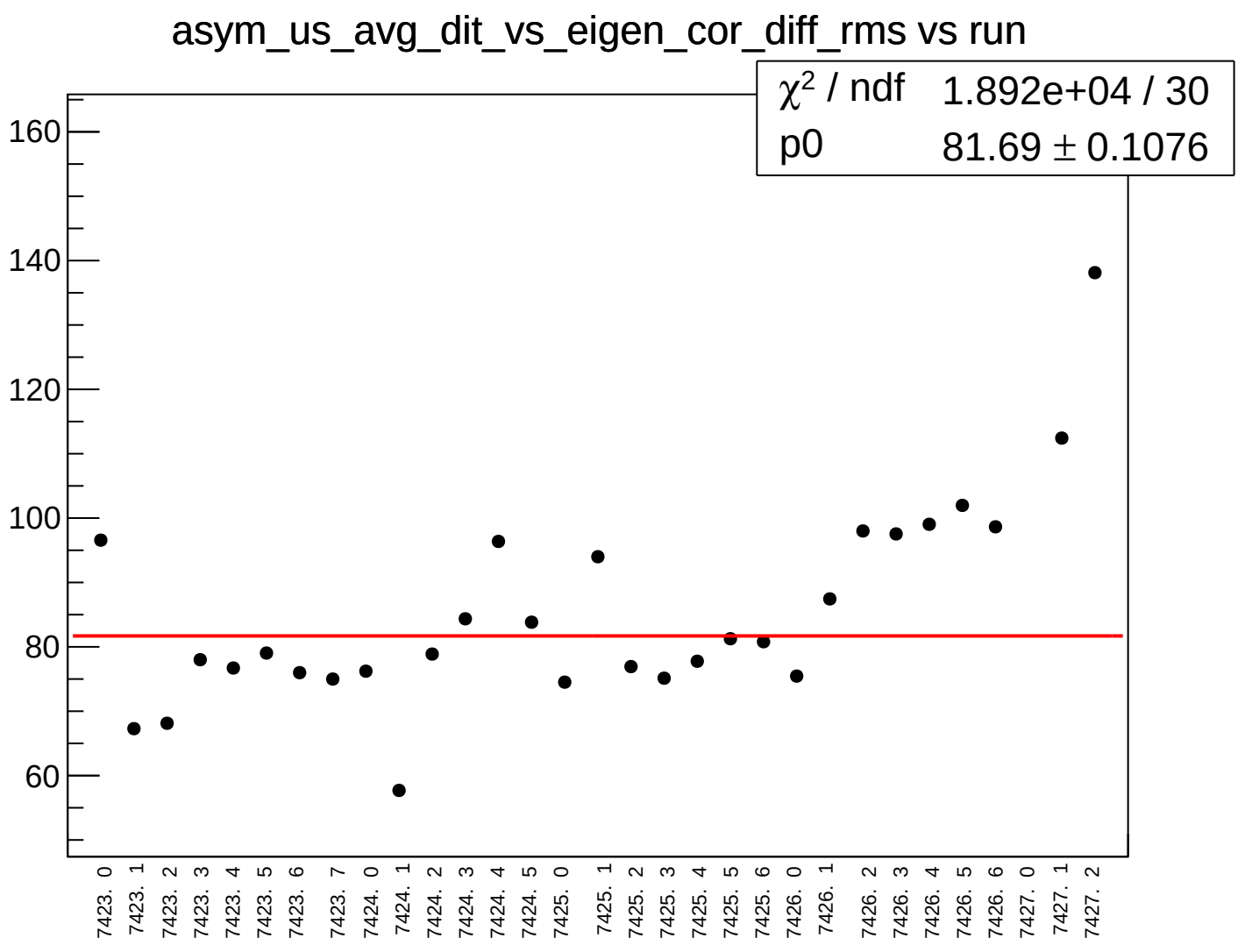

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.4 / 30
p0 3.491e−14 ± 1.949e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 9.198
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.1065
Std Dev 1.108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

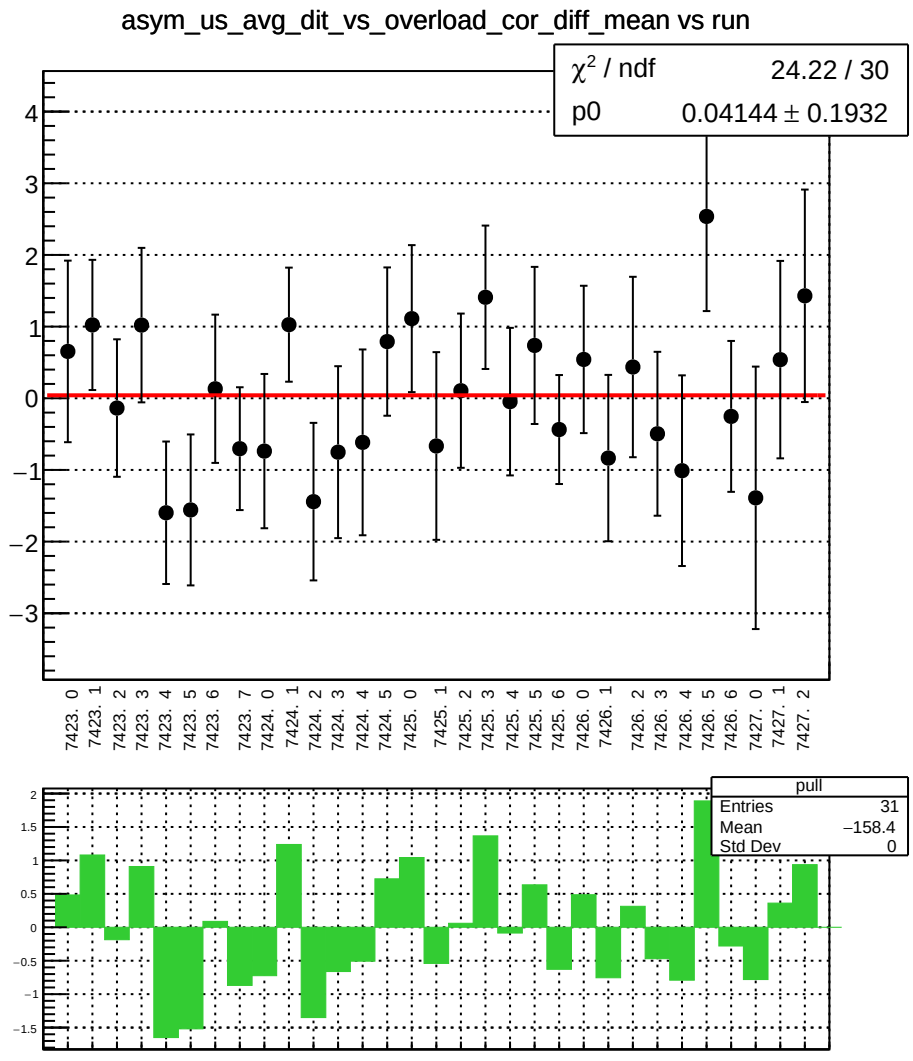

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.356e+05 / 30
p0 9.346e−12 ± 1.378e−14
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

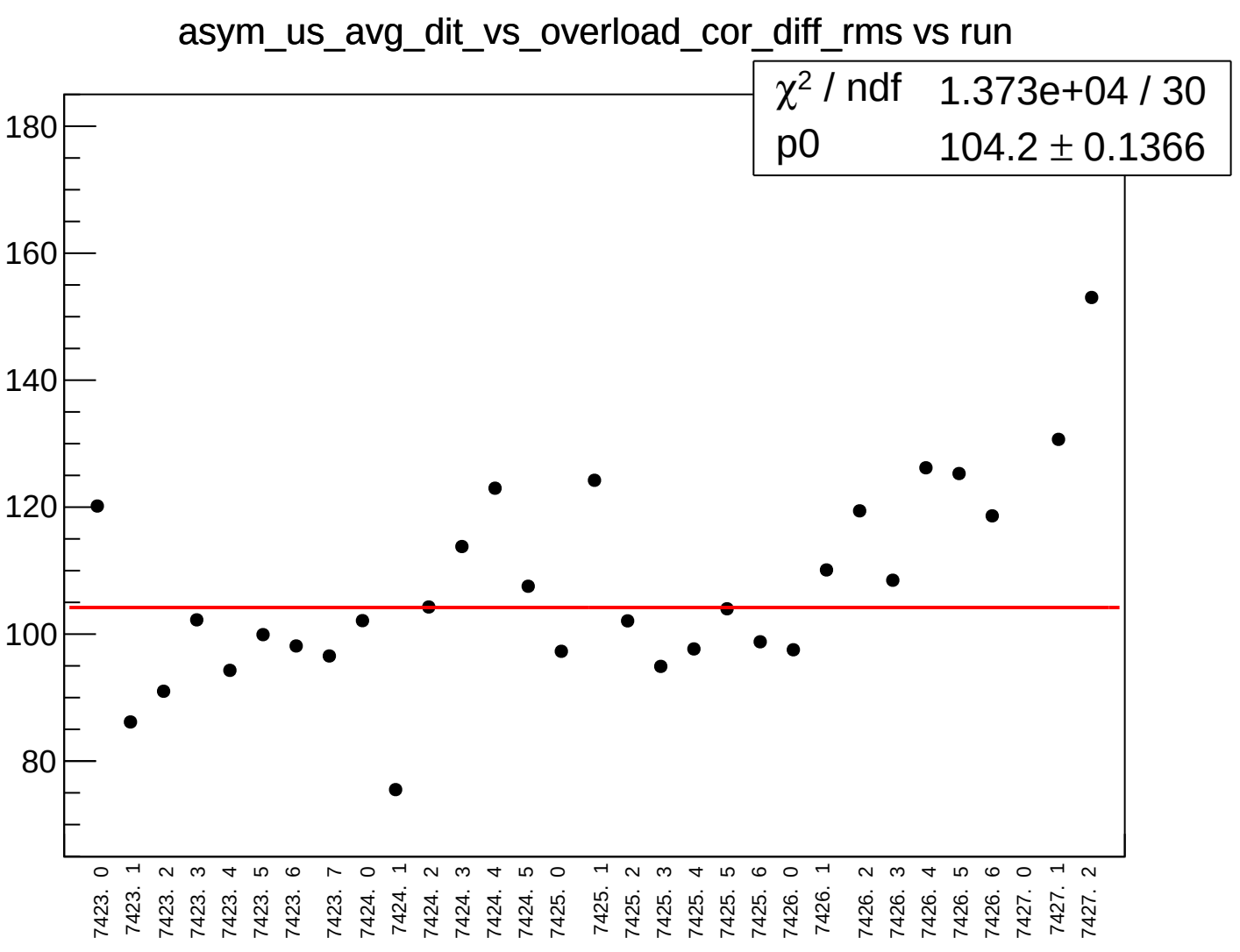

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.98 / 30
p0 0.02763 ± 0.1522
pull
Entries 31
Mean 11.65
Std Dev 14.71
pull1D
Entries 31
Mean −0.03786
Std Dev 1.135

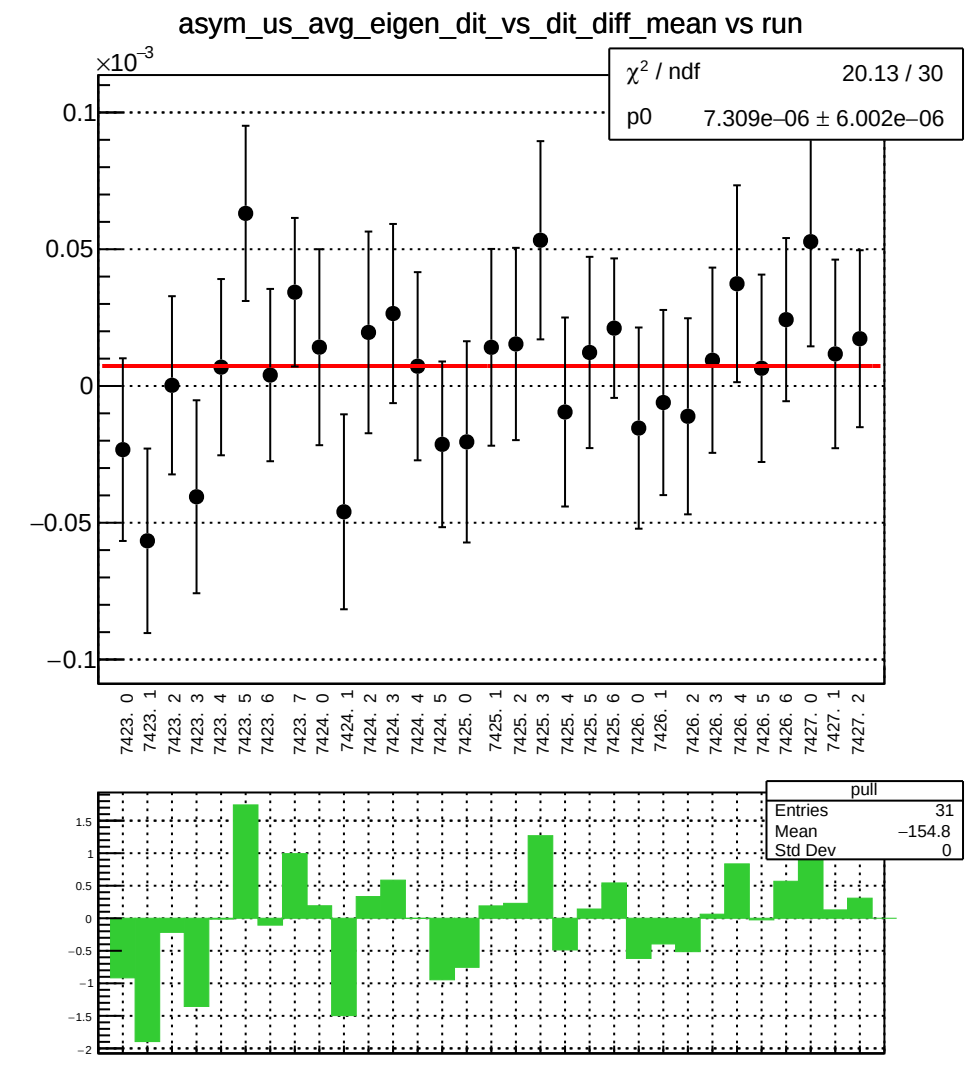

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.892e+04 / 30
p0 81.69 ± 0.1076
160
140
120
100
80
60
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

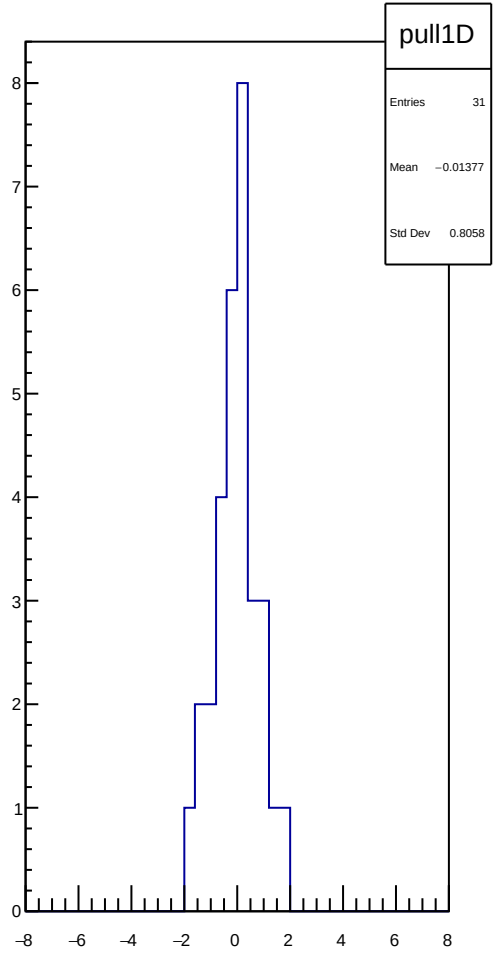

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.98 / 30
p0 0.02763 ± 0.1522
pull
Entries 31
Mean 11.65
Std Dev 14.71
pull1D
Entries 31
Mean −0.03786
Std Dev 1.135

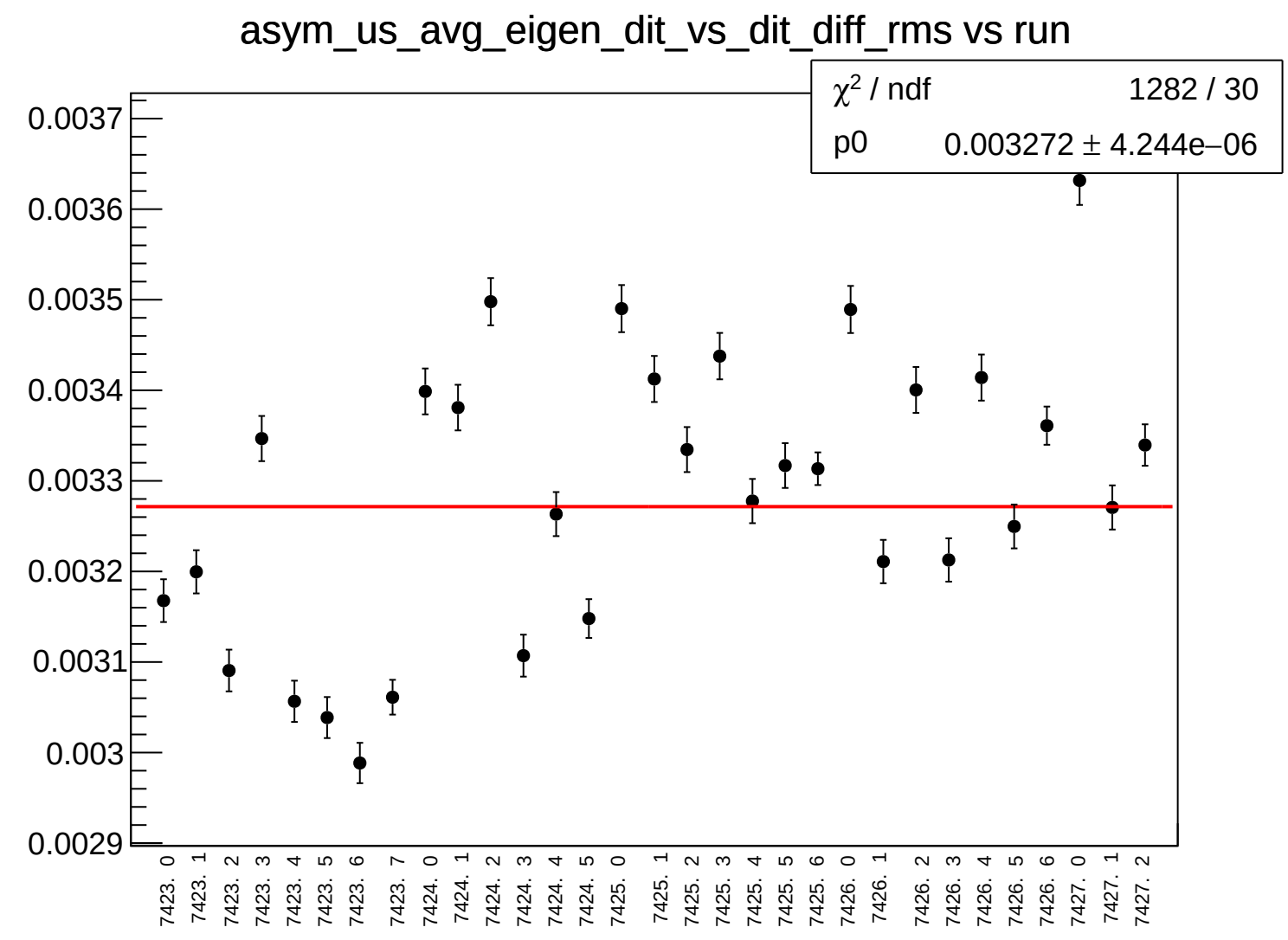

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.892e+04 / 30
p0 81.69 ± 0.1076
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

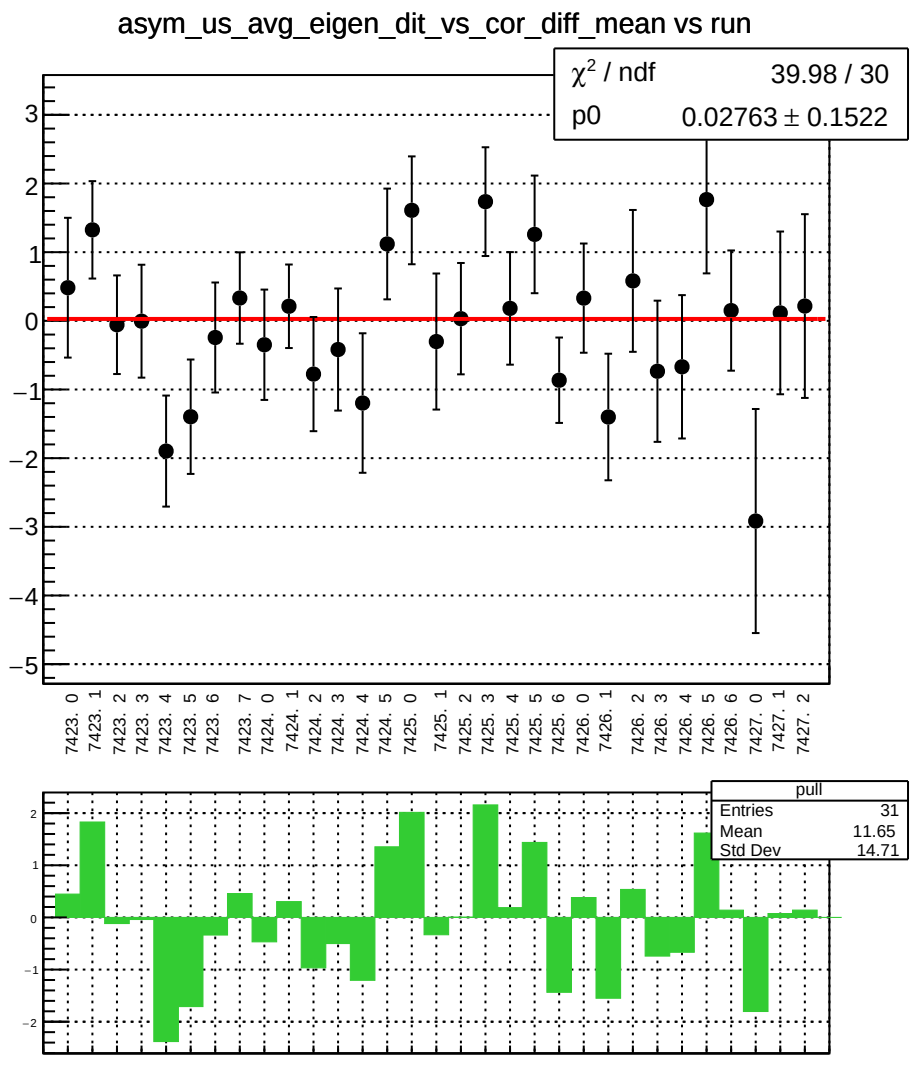

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 24.22 / 30
p0 0.04144 ± 0.1932
pull
Entries 31
Mean −158.4
Std Dev 0
pull1D
Entries 31
Mean −0.005751
Std Dev 0.884

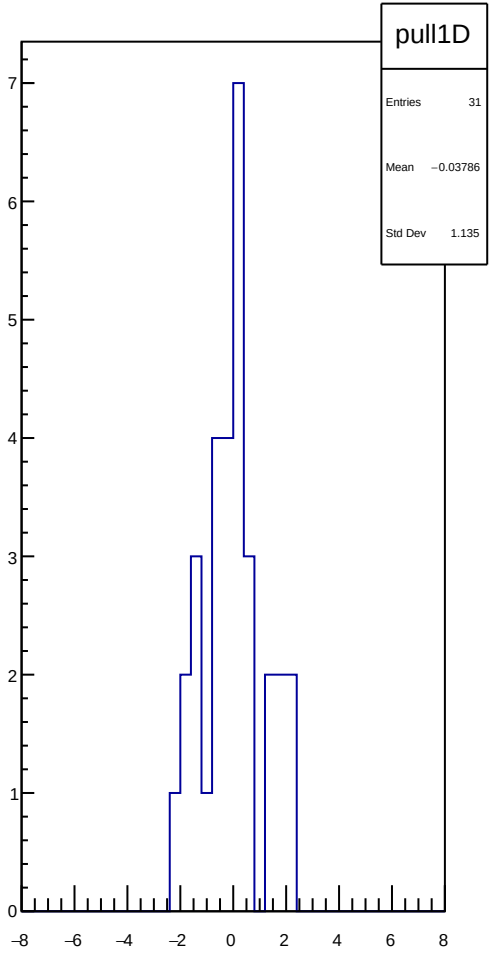

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.373e+04 / 30
p0 104.2 ± 0.1366
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

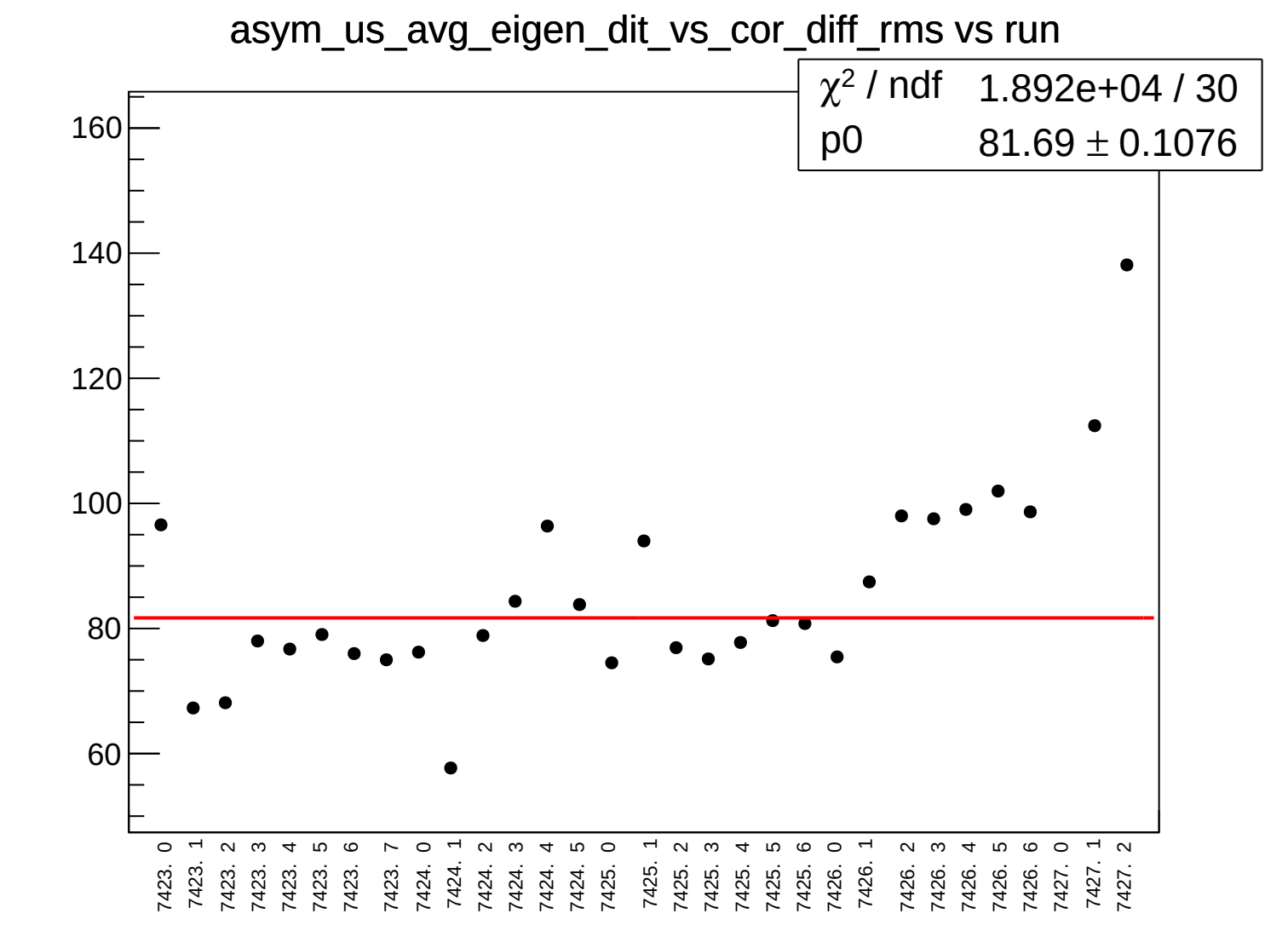

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 20.13 / 30
p0 7.309e−06 ± 6.002e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −154.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

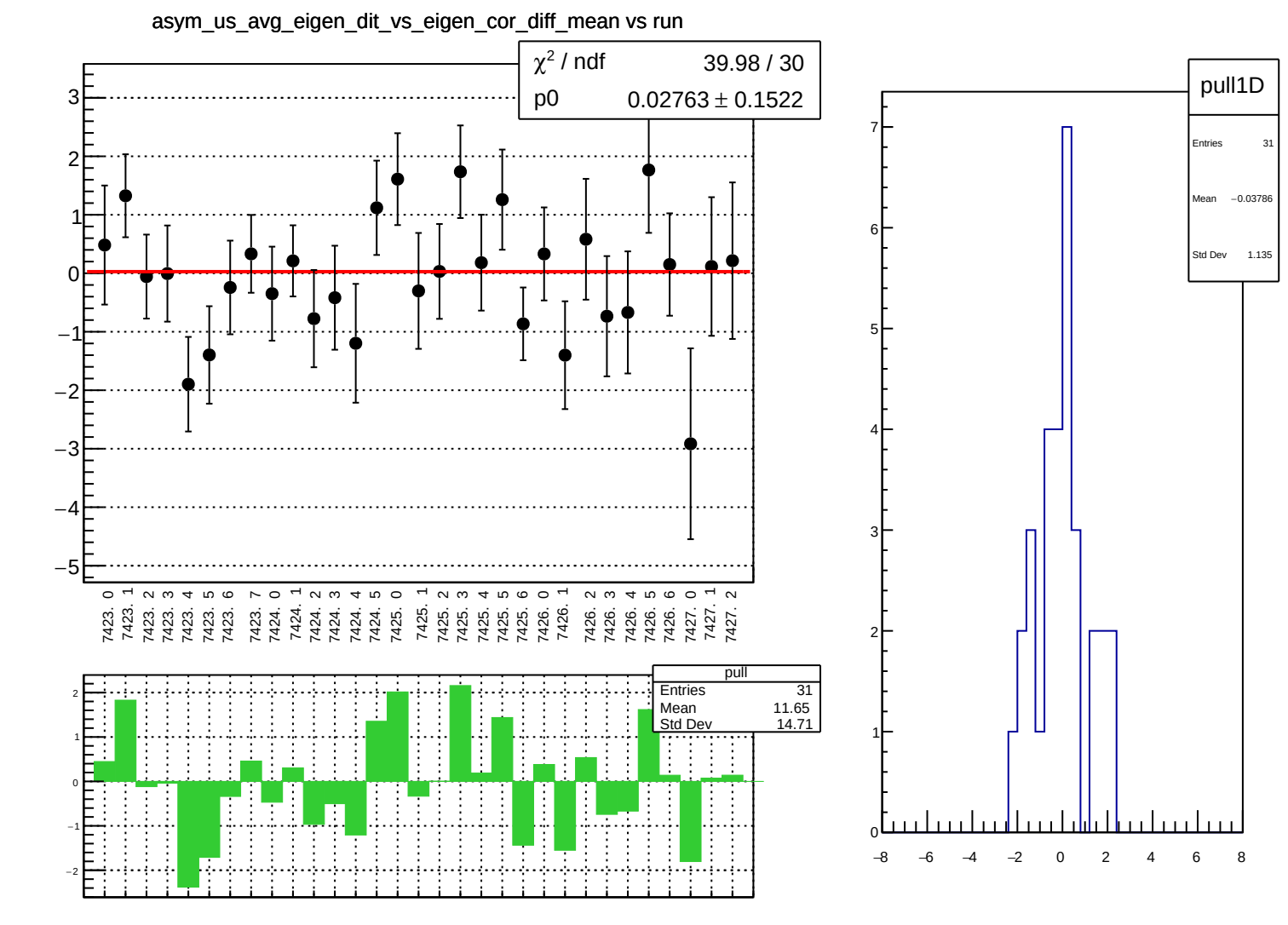

pull1D
Entries 31
Mean −0.01377
Std Dev 0.8058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

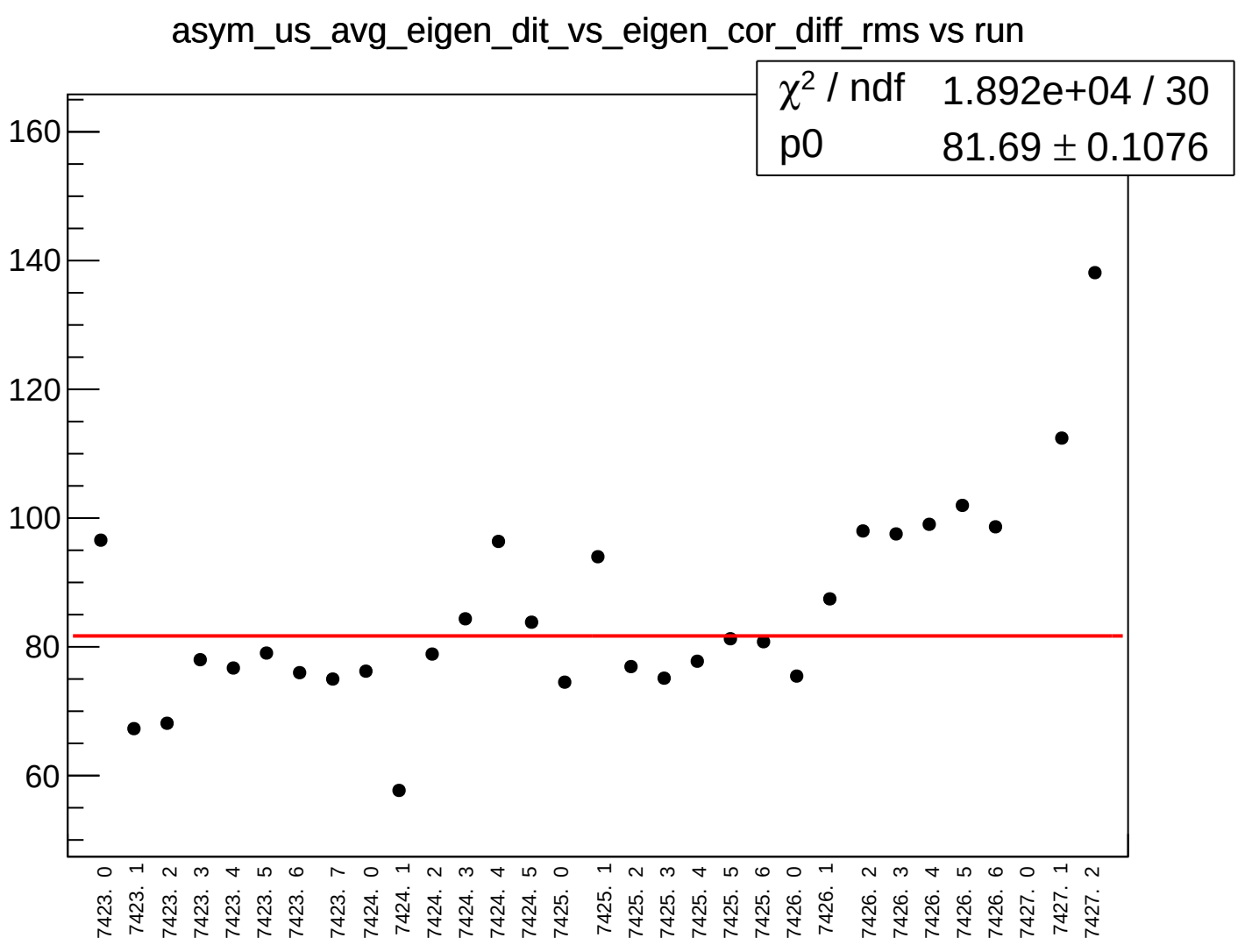

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1282 / 30
p0 0.003272 ± 4.244e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

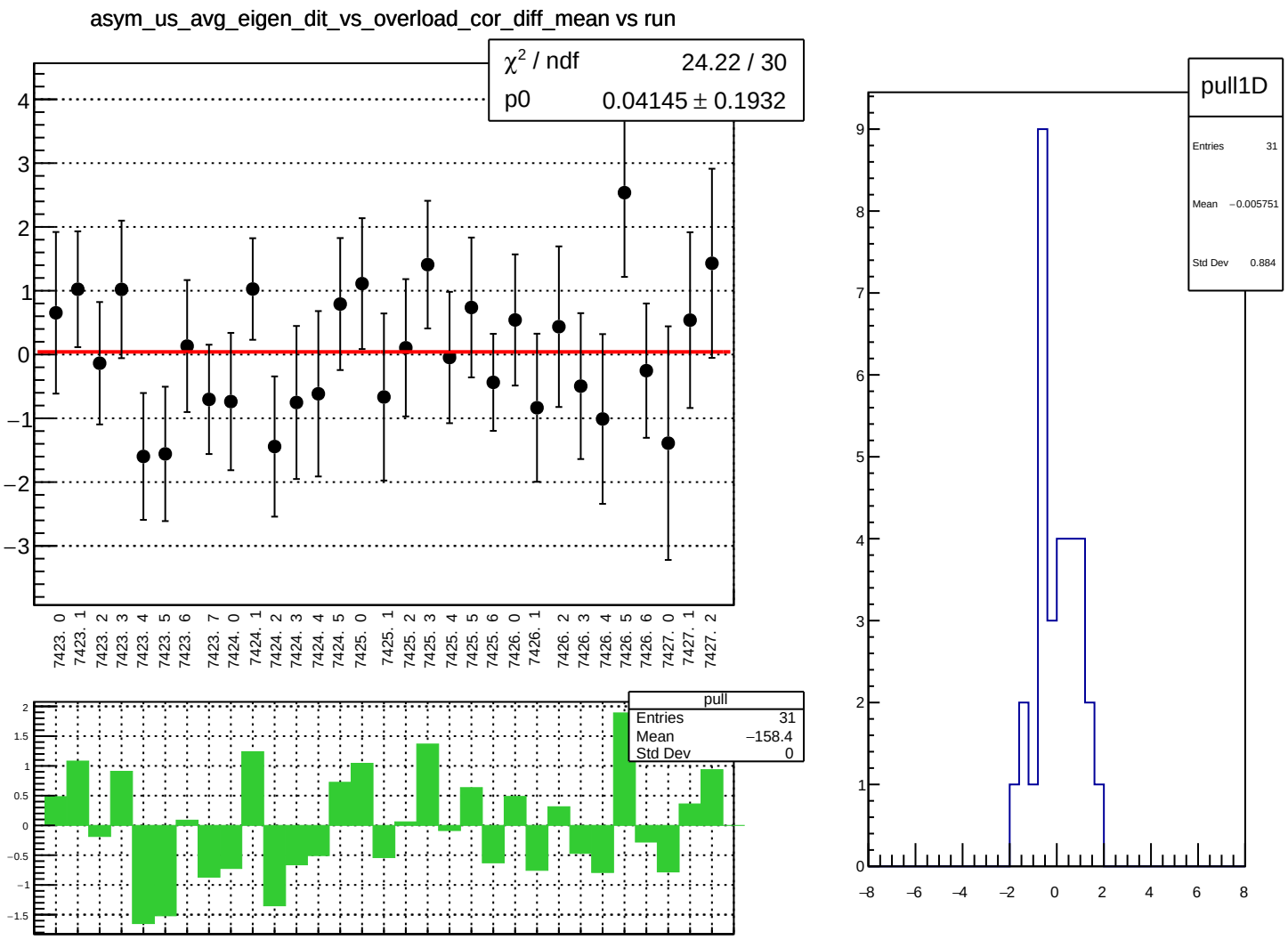

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.98 / 30
p0 0.02763 ± 0.1522
pull
Entries 31
Mean 11.65
Std Dev 14.71

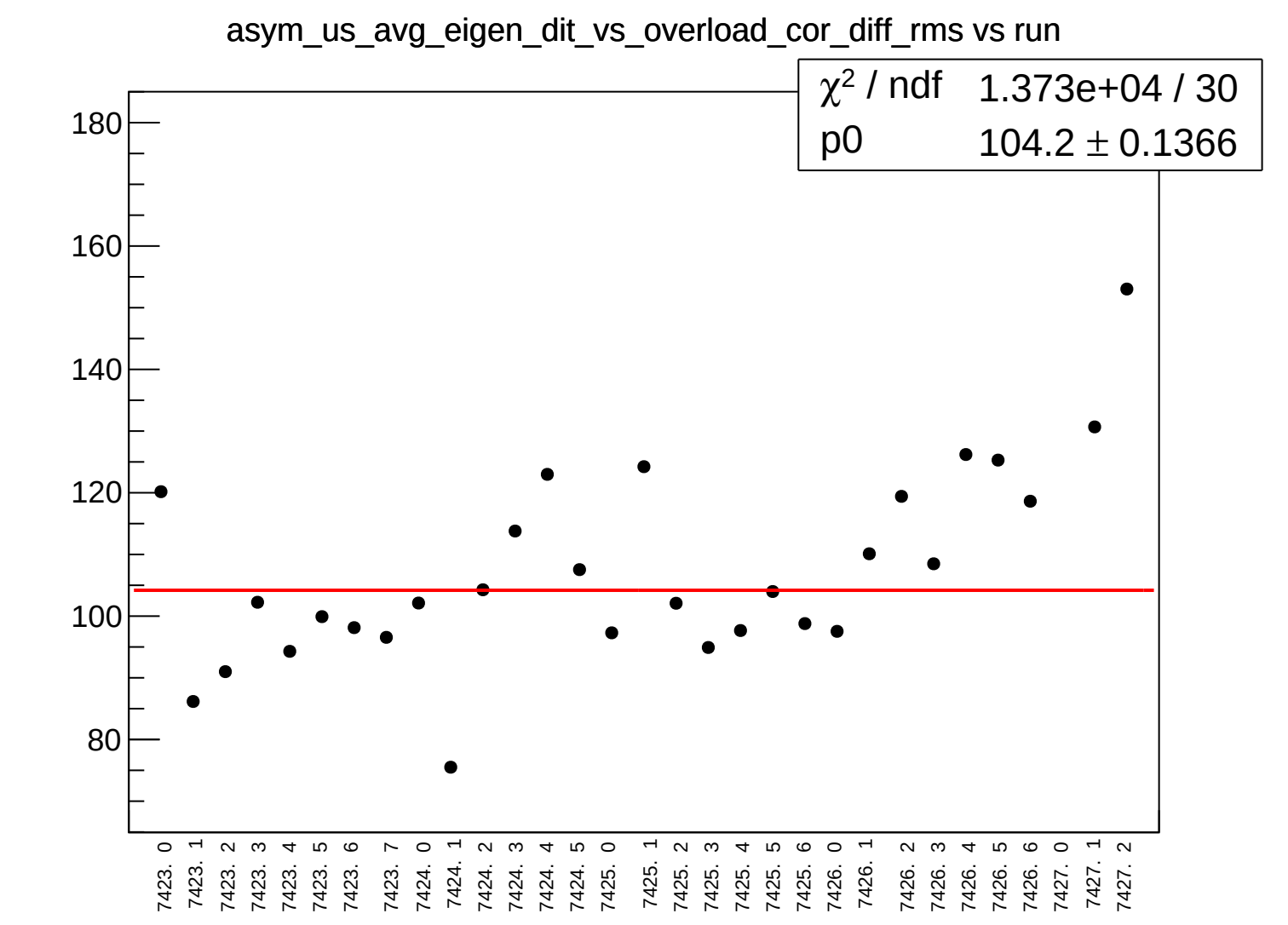

pull1D
Entries 31
Mean −0.03786
Std Dev 1.135

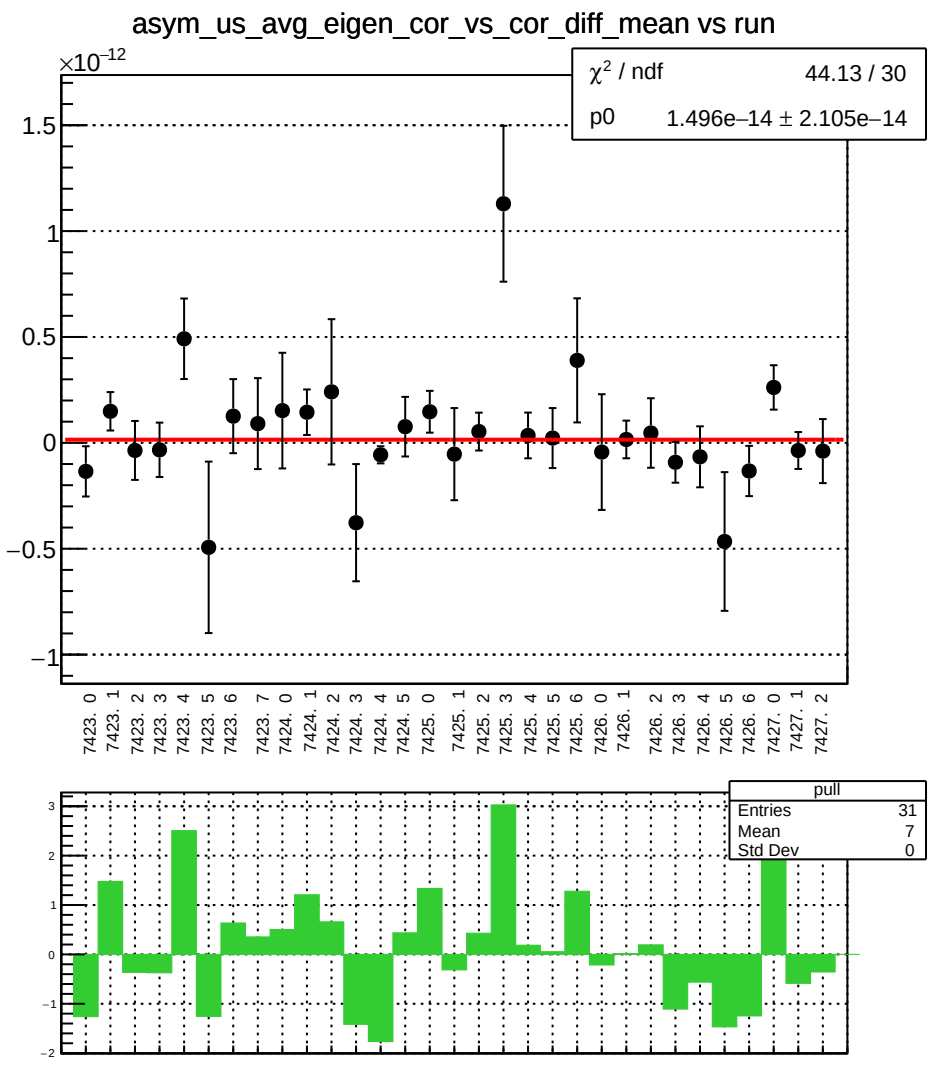

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.892e+04 / 30
p0 81.69 ± 0.1076
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

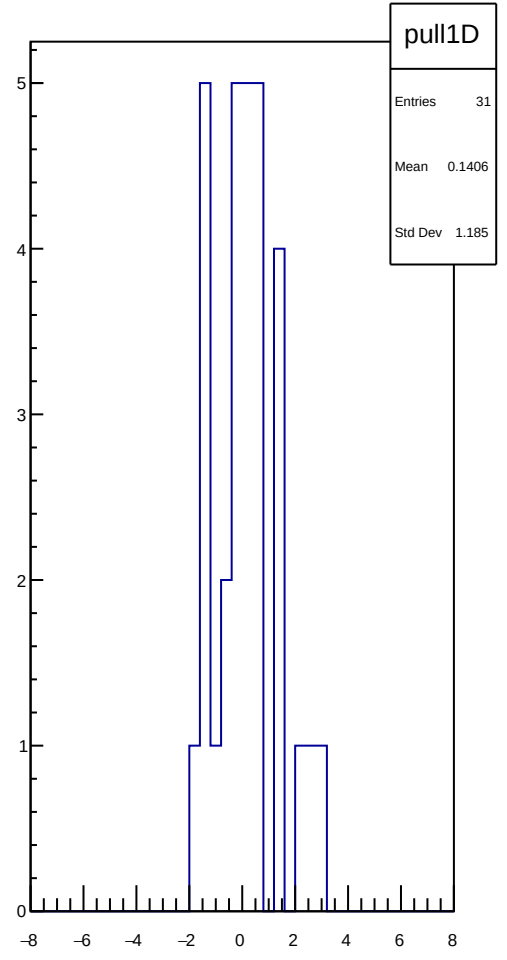

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.98 / 30
p0 0.02763 ± 0.1522
pull
Entries 31
Mean 11.65
Std Dev 14.71
pull1D
Entries 31
Mean −0.03786
Std Dev 1.135

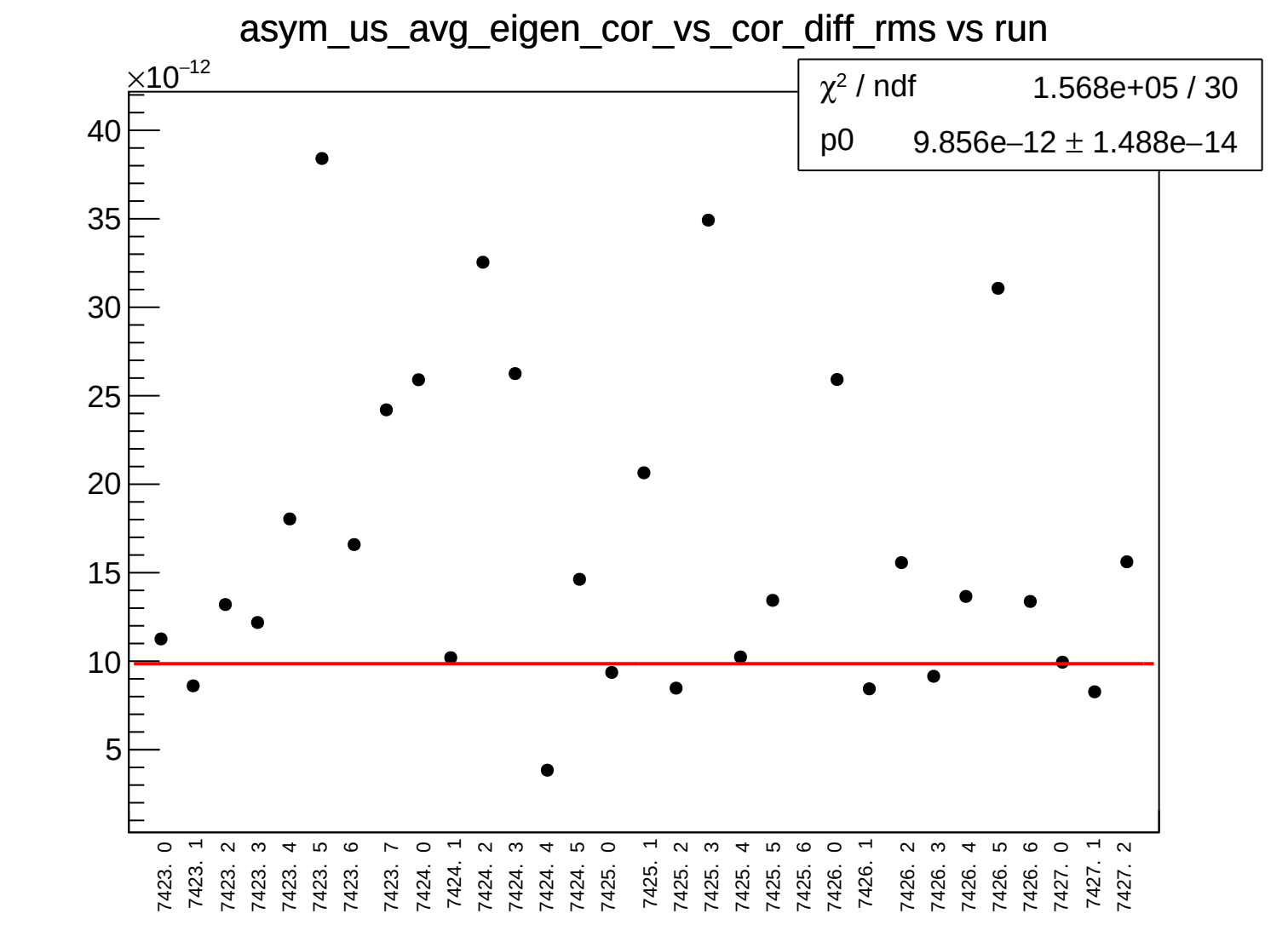

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.892e+04 / 30
p0 81.69 ± 0.1076
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

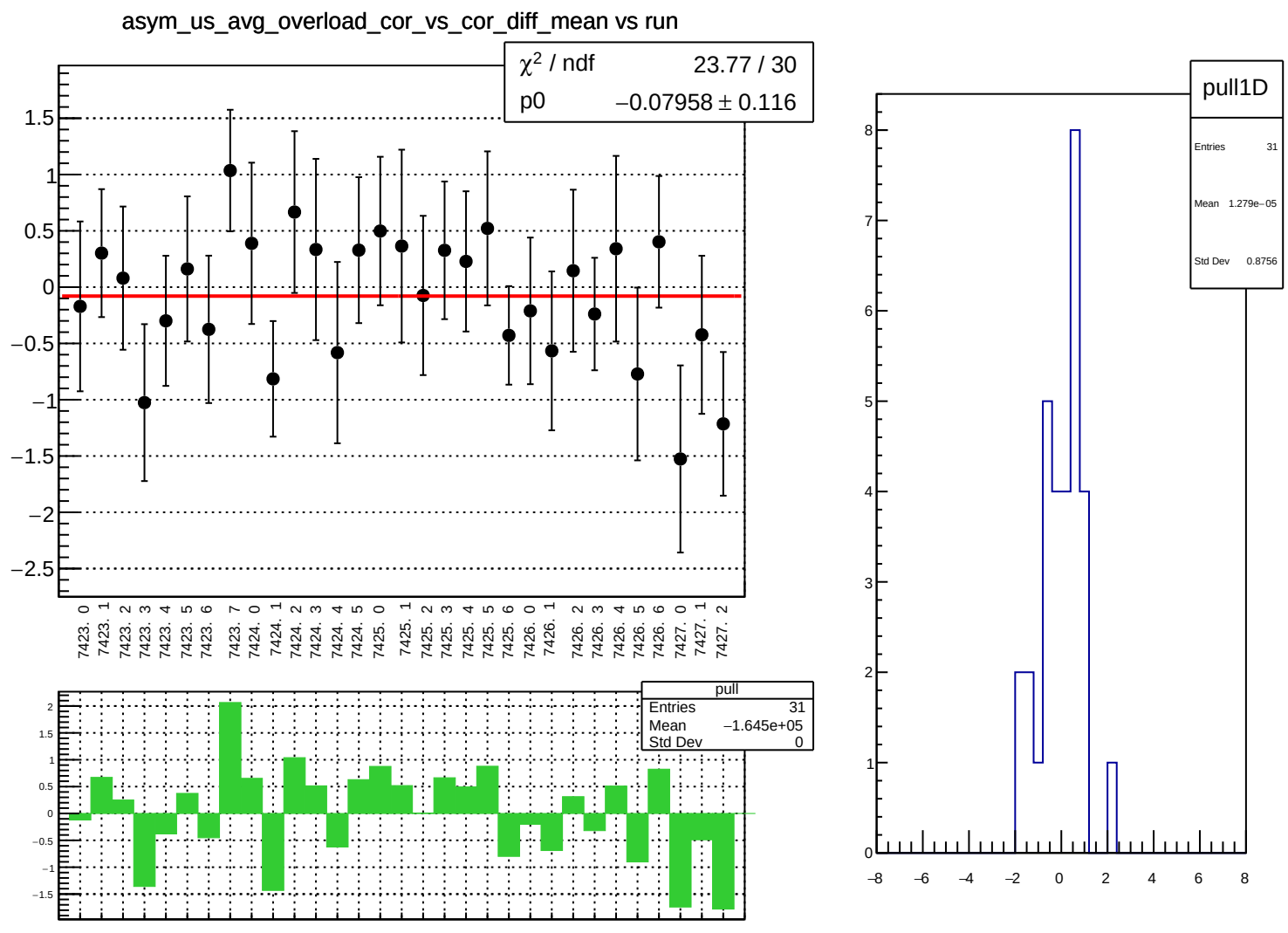

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 24.22 / 30
p0 0.04145 ± 0.1932
pull
Entries 31
Mean −158.4
Std Dev 0
pull1D
Entries 31
Mean −0.005751
Std Dev 0.884

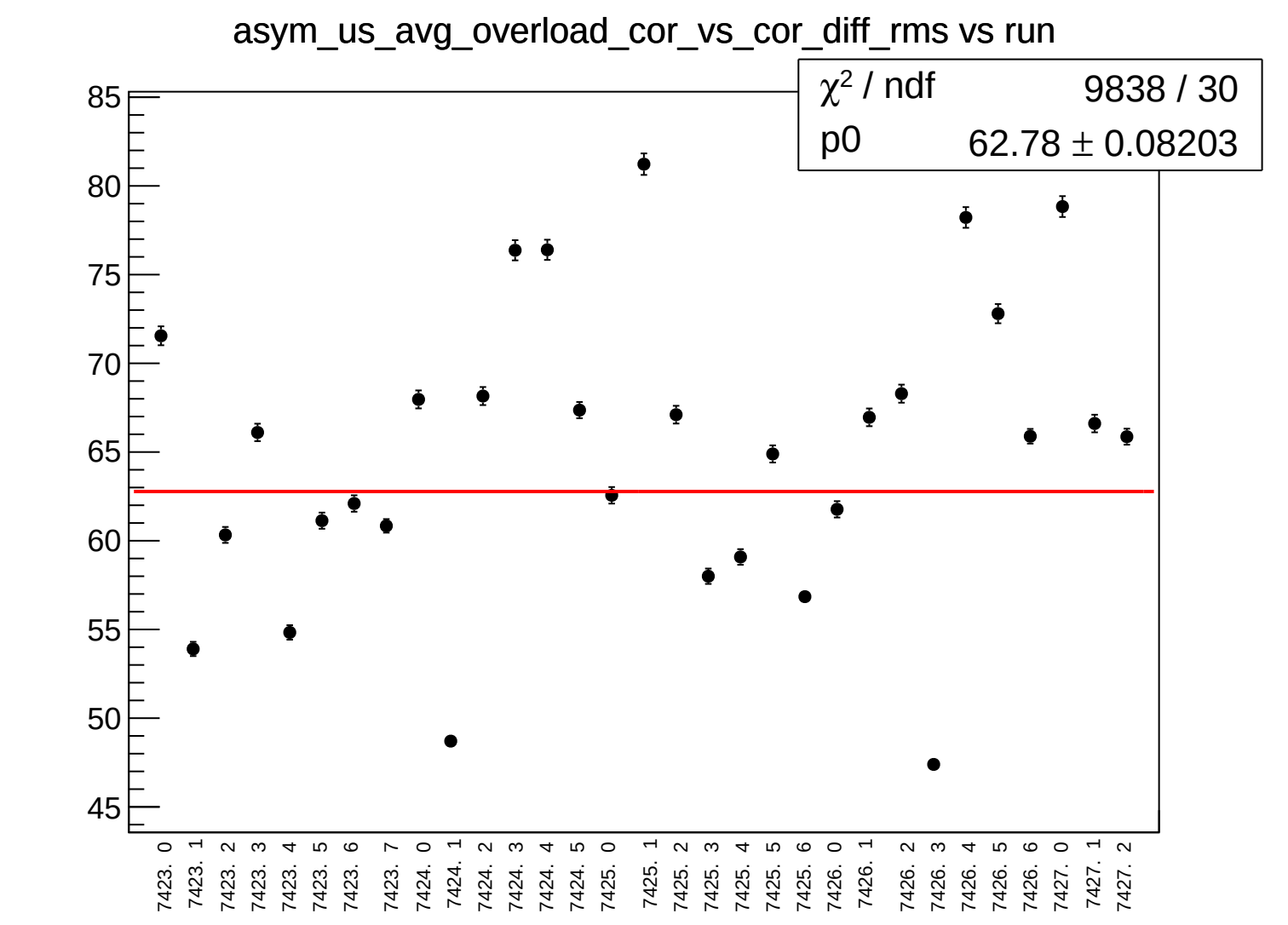

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.373e+04 / 30
p0 104.2 ± 0.1366
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

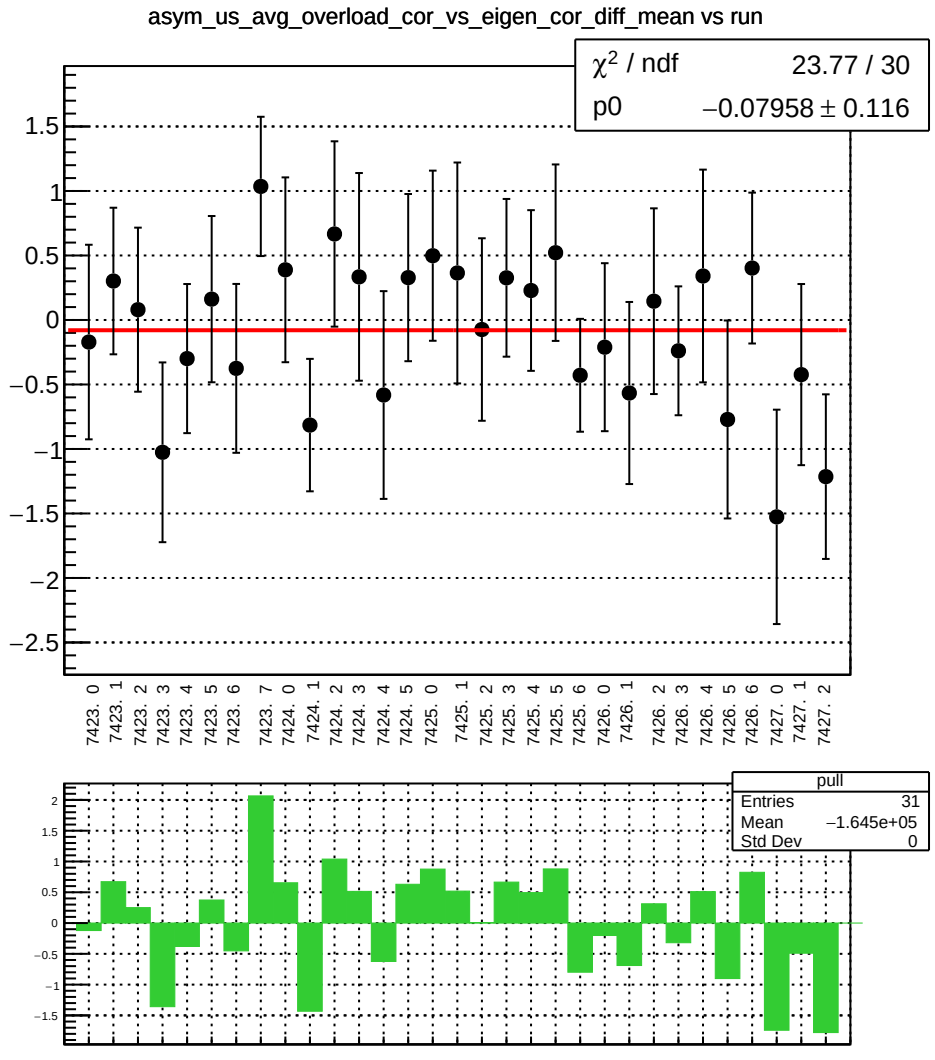

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.13 / 30
p0 1.496e−14 ± 2.105e−14
1.5
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 7
Std Dev 0
3
2
1
0
−1
−2

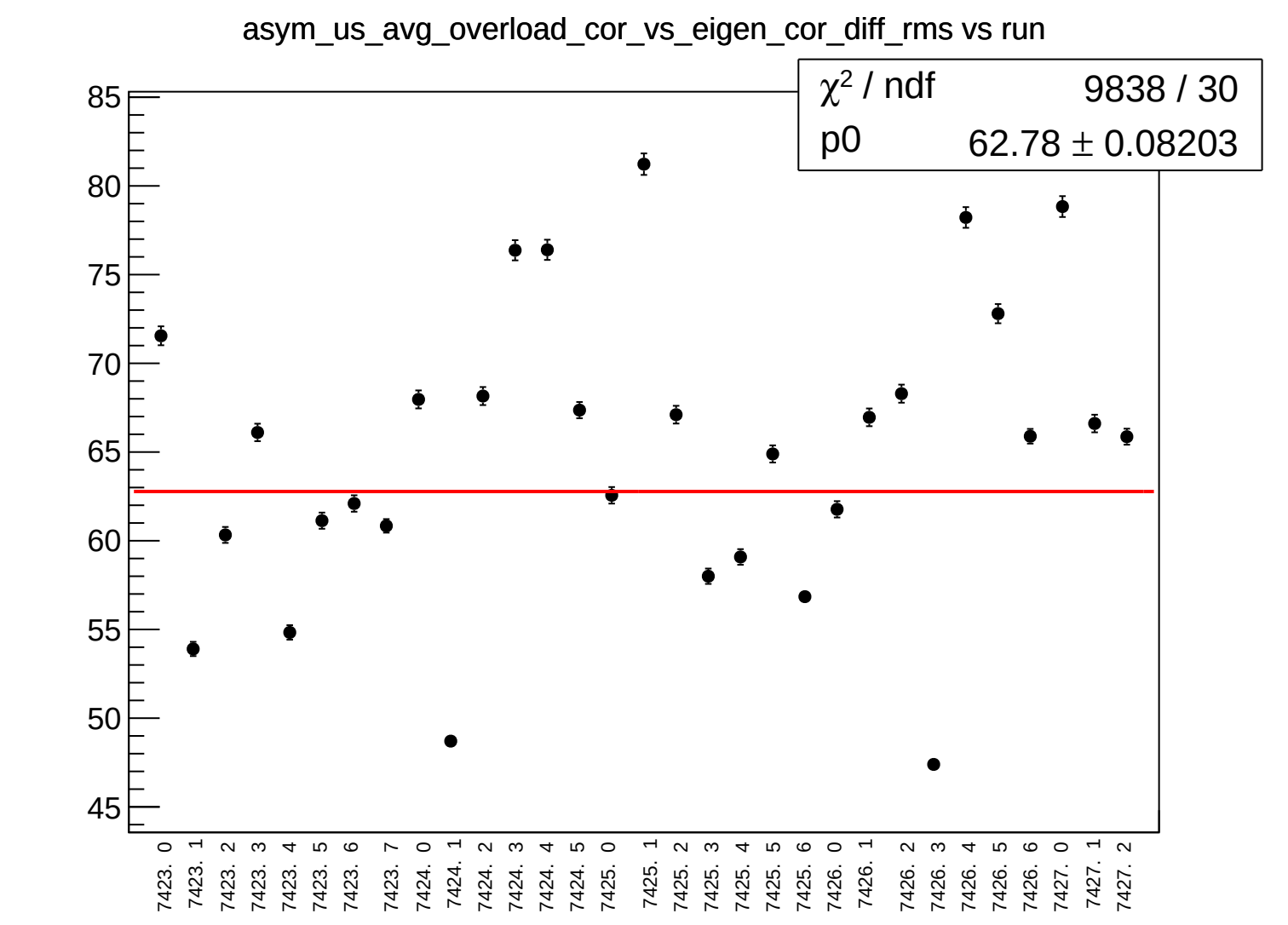

pull1D
Entries 31
Mean 0.1406
Std Dev 1.185
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

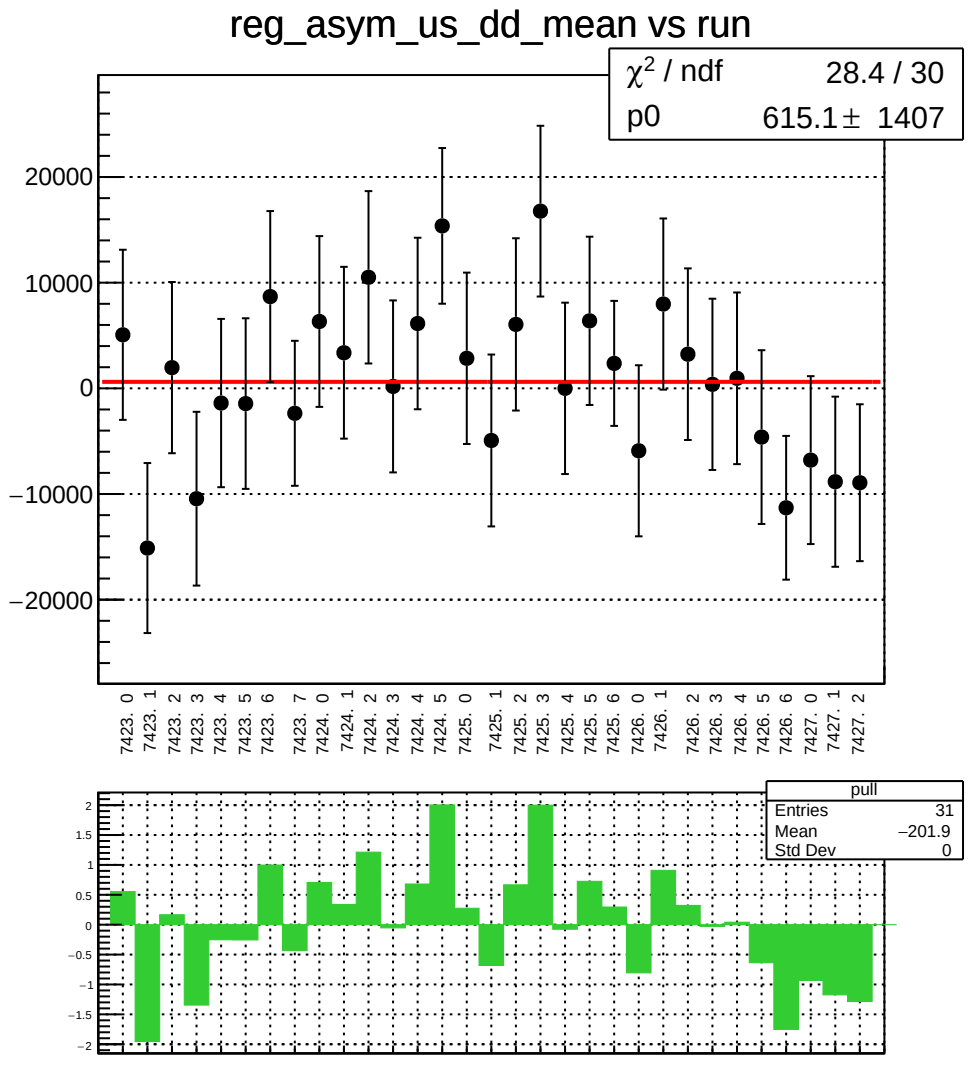

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.568e+05 / 30
p0 9.856e−12 ± 1.488e−14
40
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

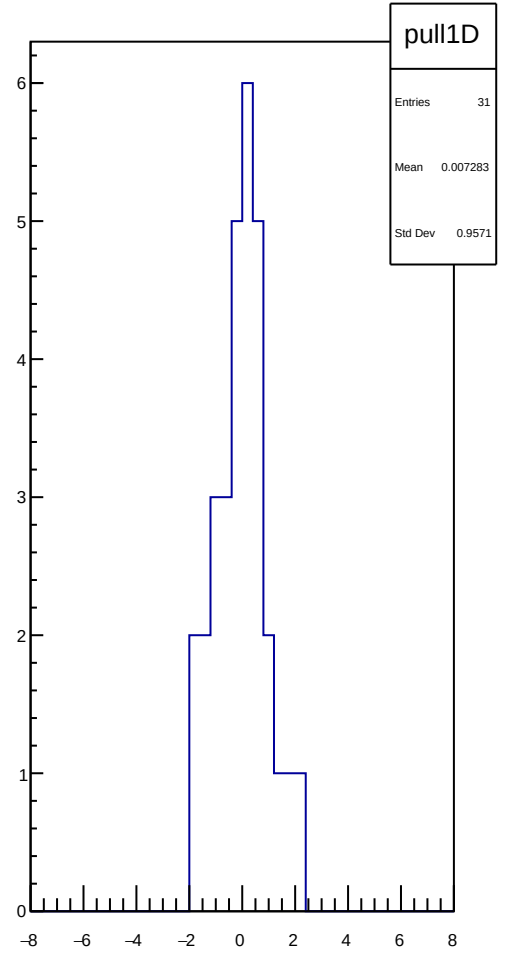

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 23.77 / 30
p0 −0.07958 ± 0.116
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1.645e+05
Std Dev 0
pull1D
Entries 31
Mean 1.279e−05
Std Dev 0.8756

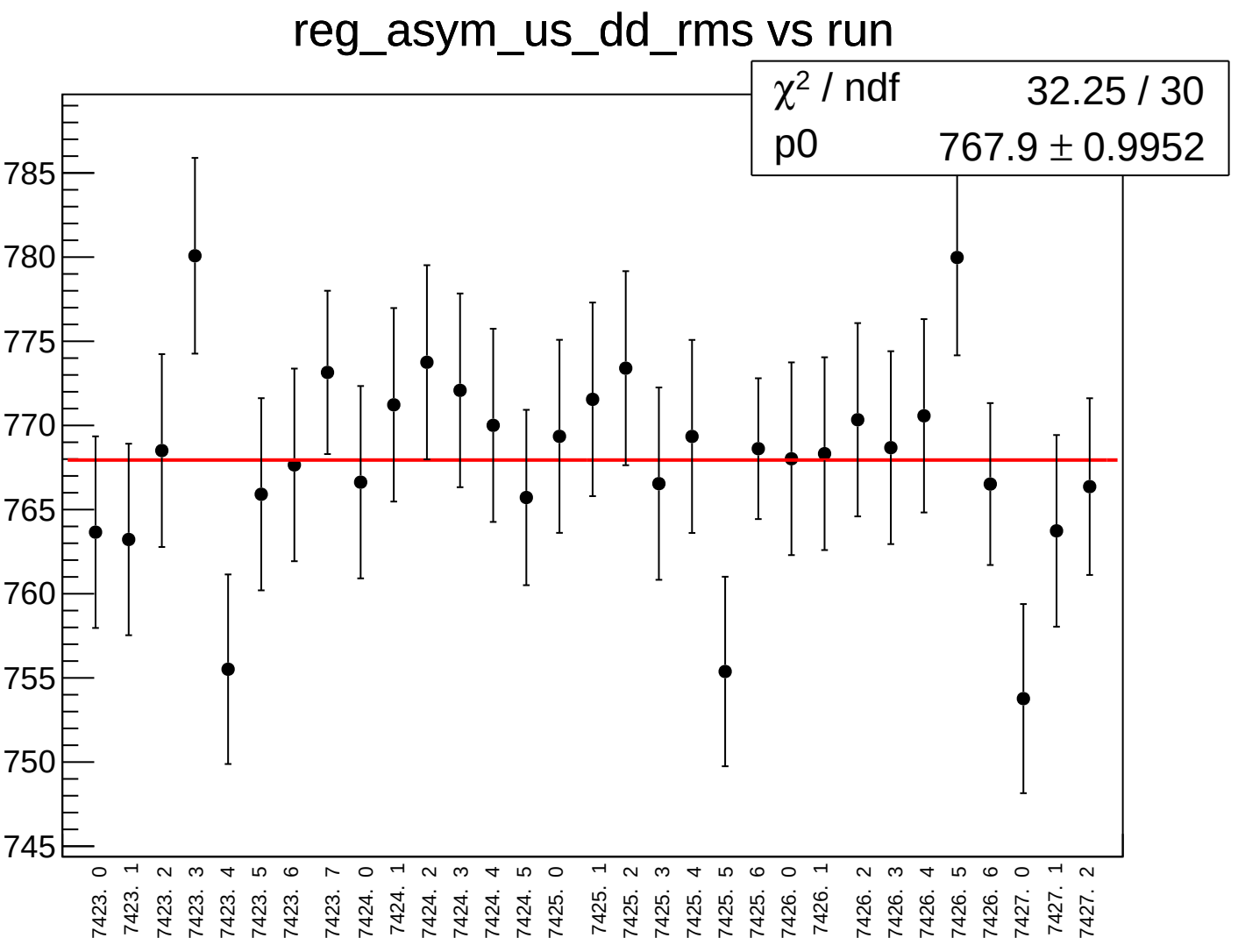

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 9838 / 30
p0 62.78 ± 0.08203
85
80
75
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

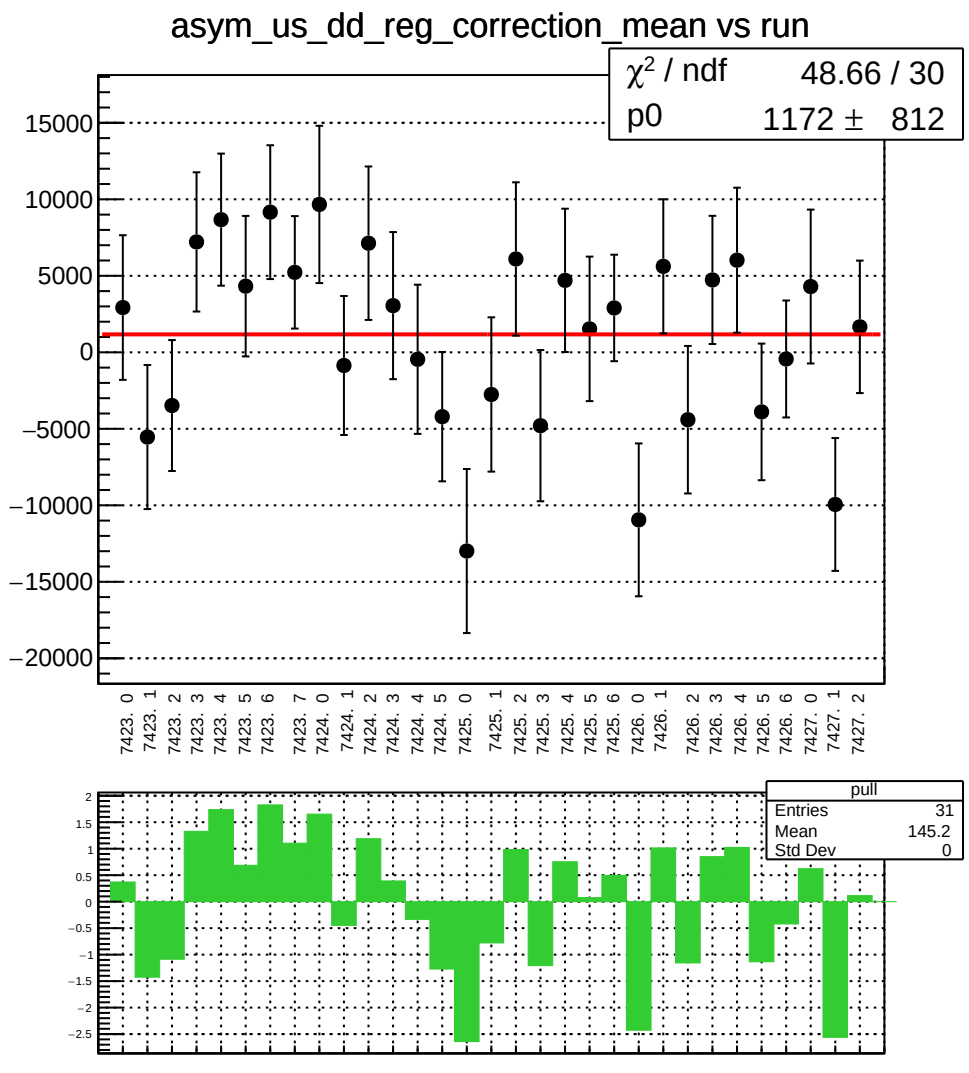

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.77 / 30
p0 −0.07958 ± 0.116
pull
Entries 31
Mean −1.645e+05
Std Dev 0
pull1D
Entries 31
Mean 1.279e−05
Std Dev 0.8756

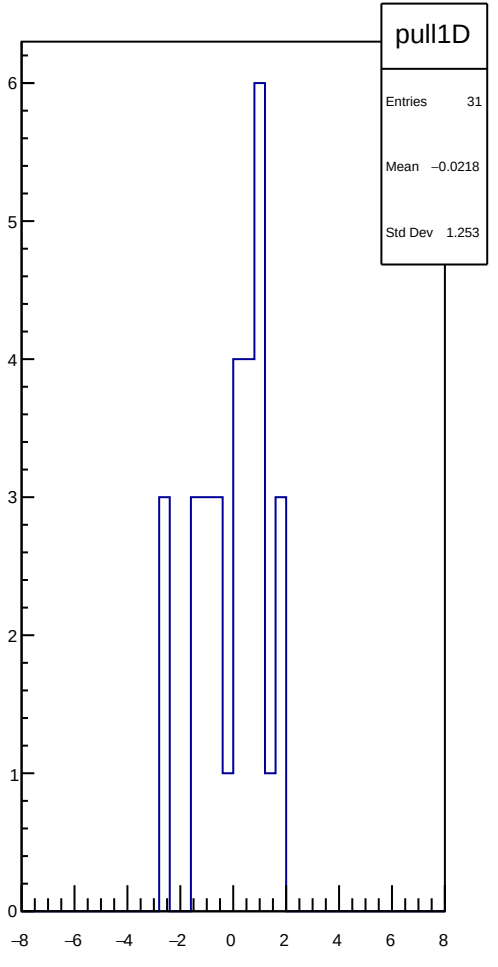

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9838 / 30
p0 62.78 ± 0.08203
85
80
75
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

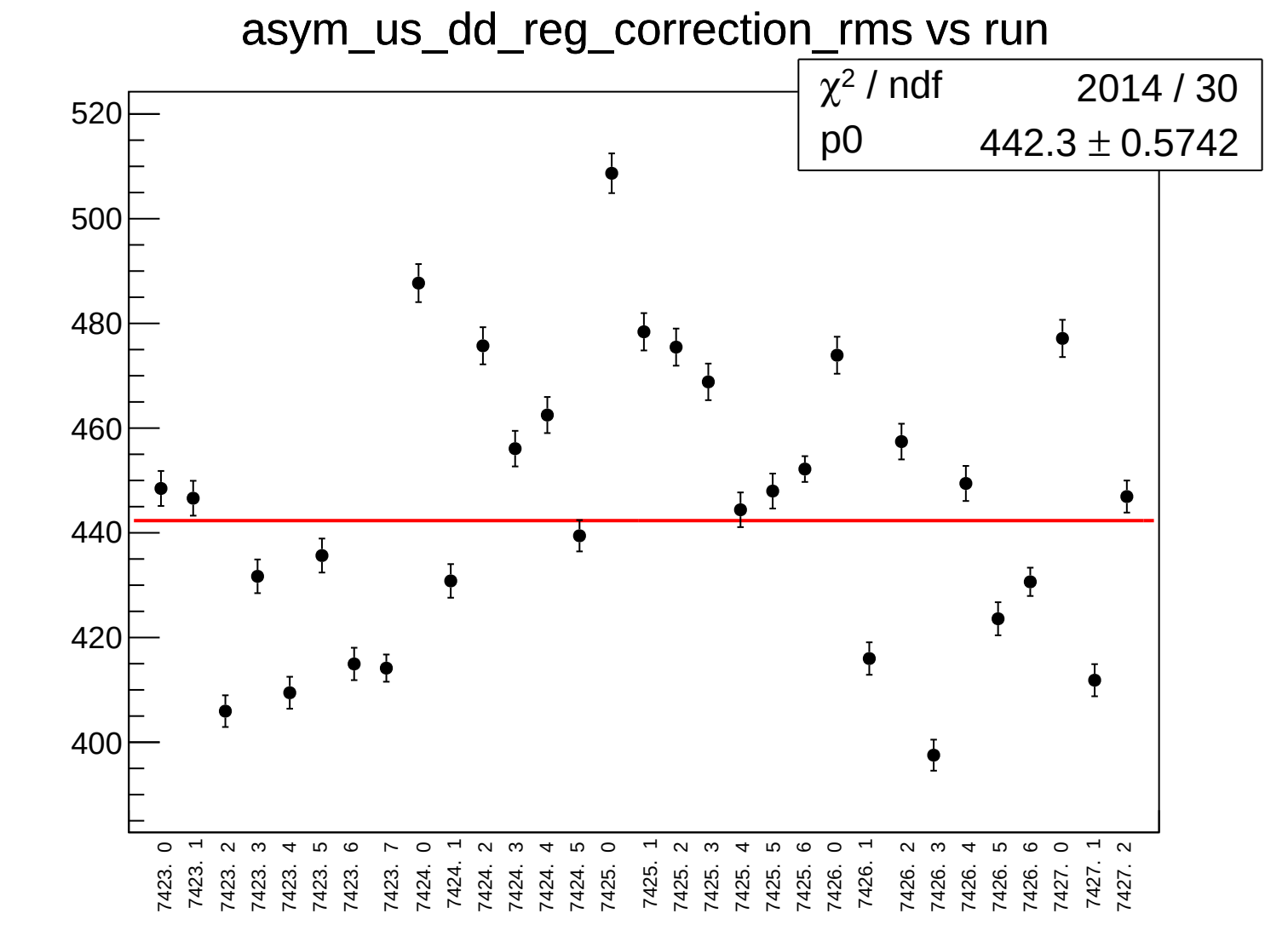

reg_asym_us_dd_mean vs run
χ2 / ndf 28.4 / 30
p0 615.1± 1407
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −201.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

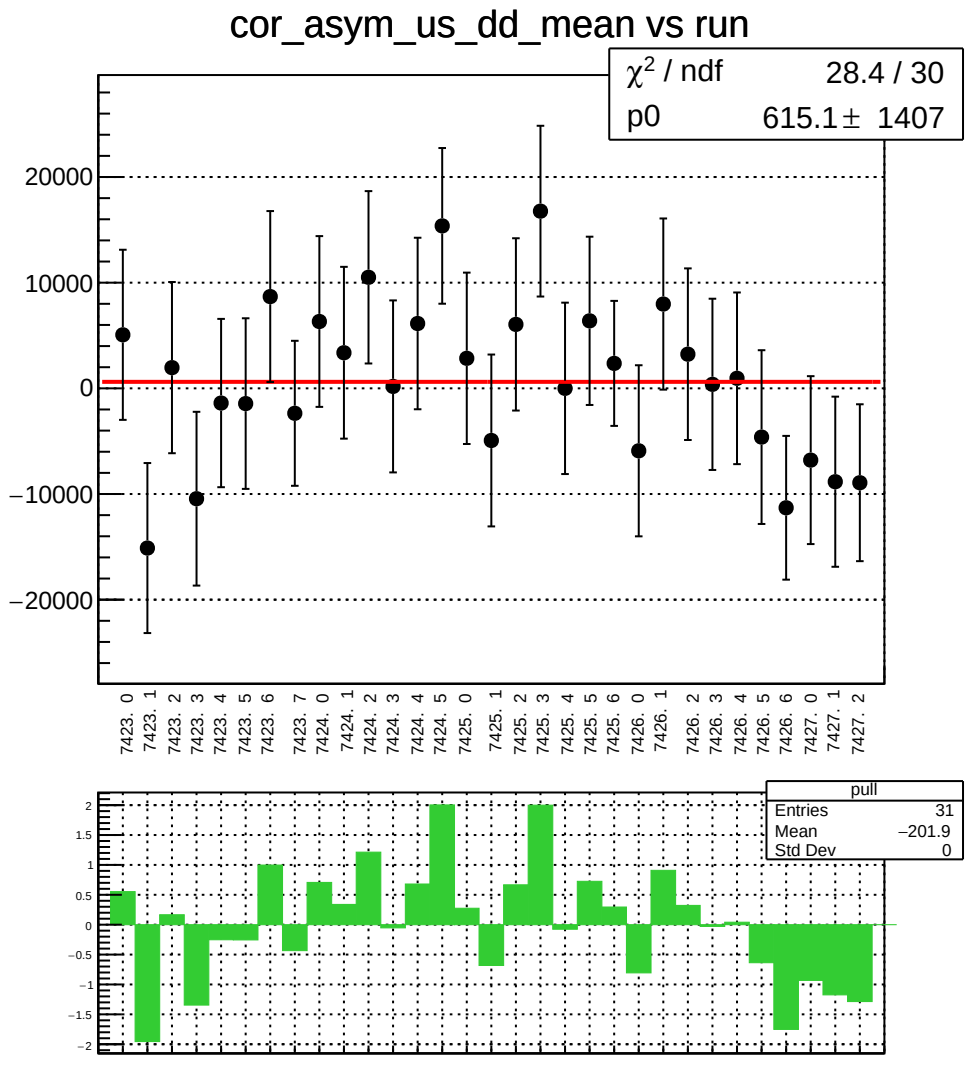

pull1D
Entries 31
Mean 0.007283
Std Dev 0.9571
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

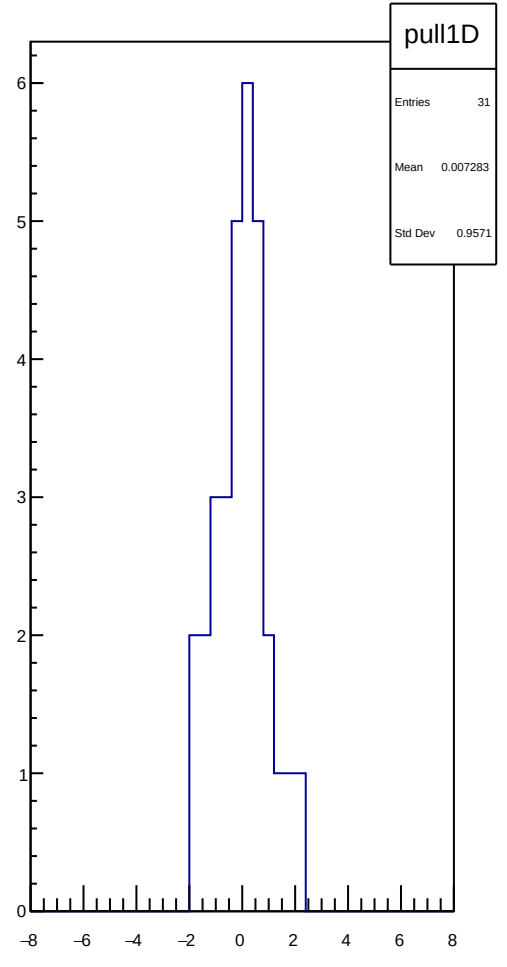

reg_asym_us_dd_rms vs run
χ² / ndf 32.25 / 30
p0 767.9 ± 0.9952
785
780
775
770
765
760
755
750
745
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

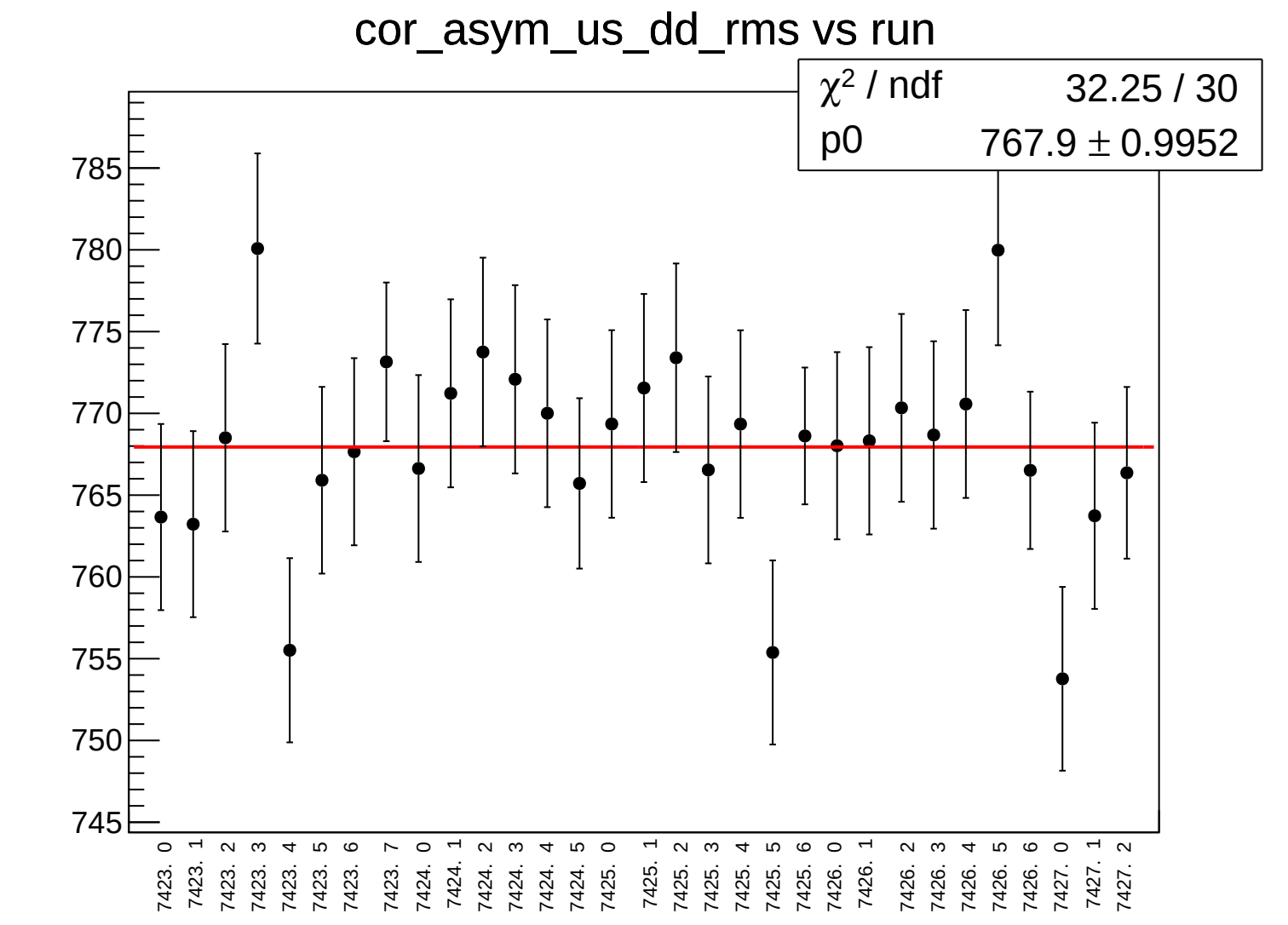

asym_us_dd_reg_correction_mean vs run
χ² / ndf 48.66 / 30
p0 1172 ± 812
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 145.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

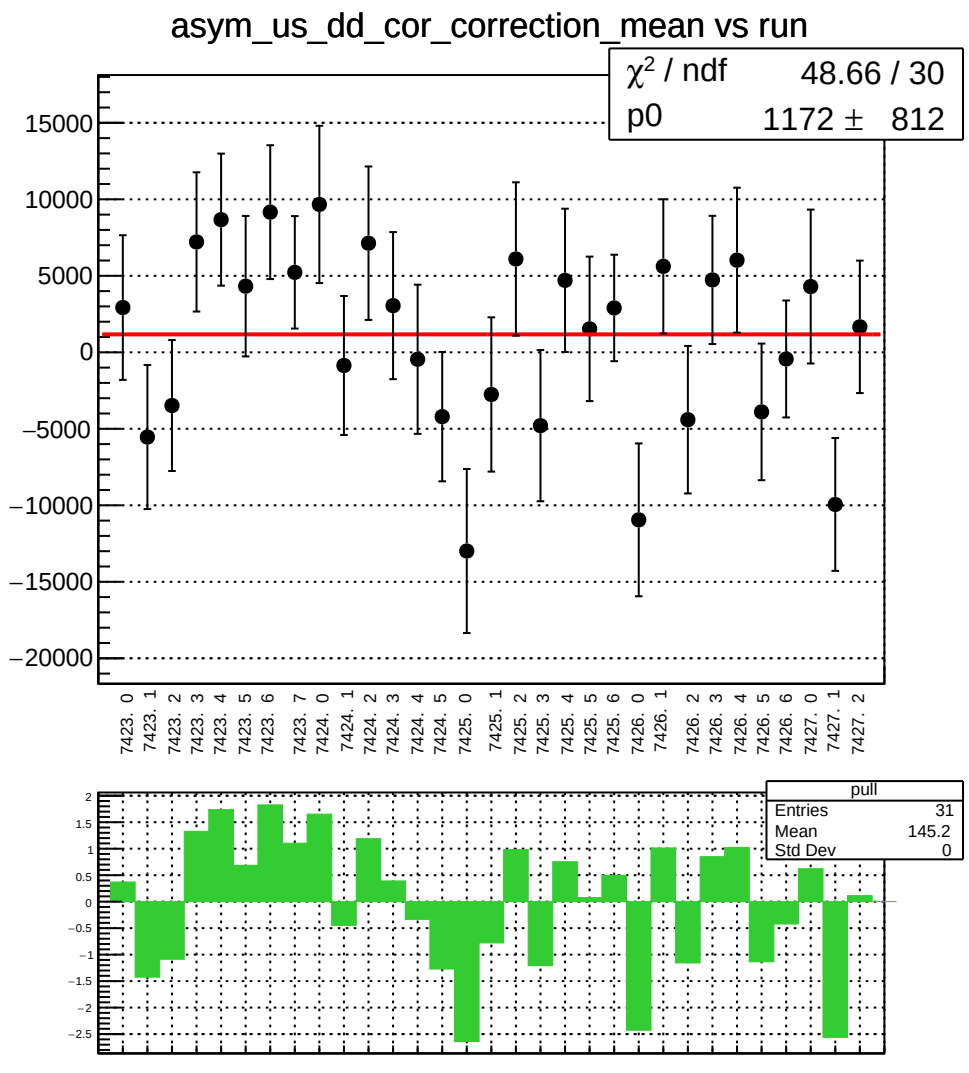

pull1D
Entries 31
Mean −0.0218
Std Dev 1.253
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

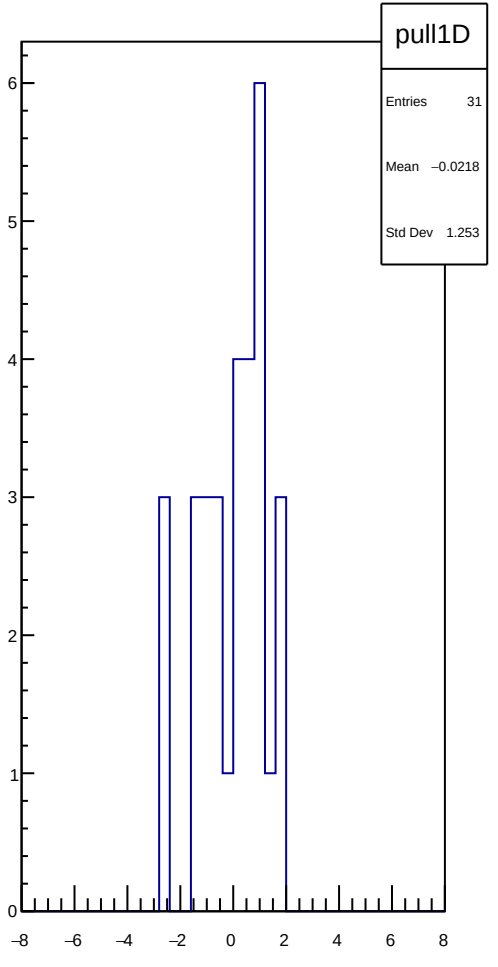

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2014 / 30
p0 442.3 ± 0.5742
520
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

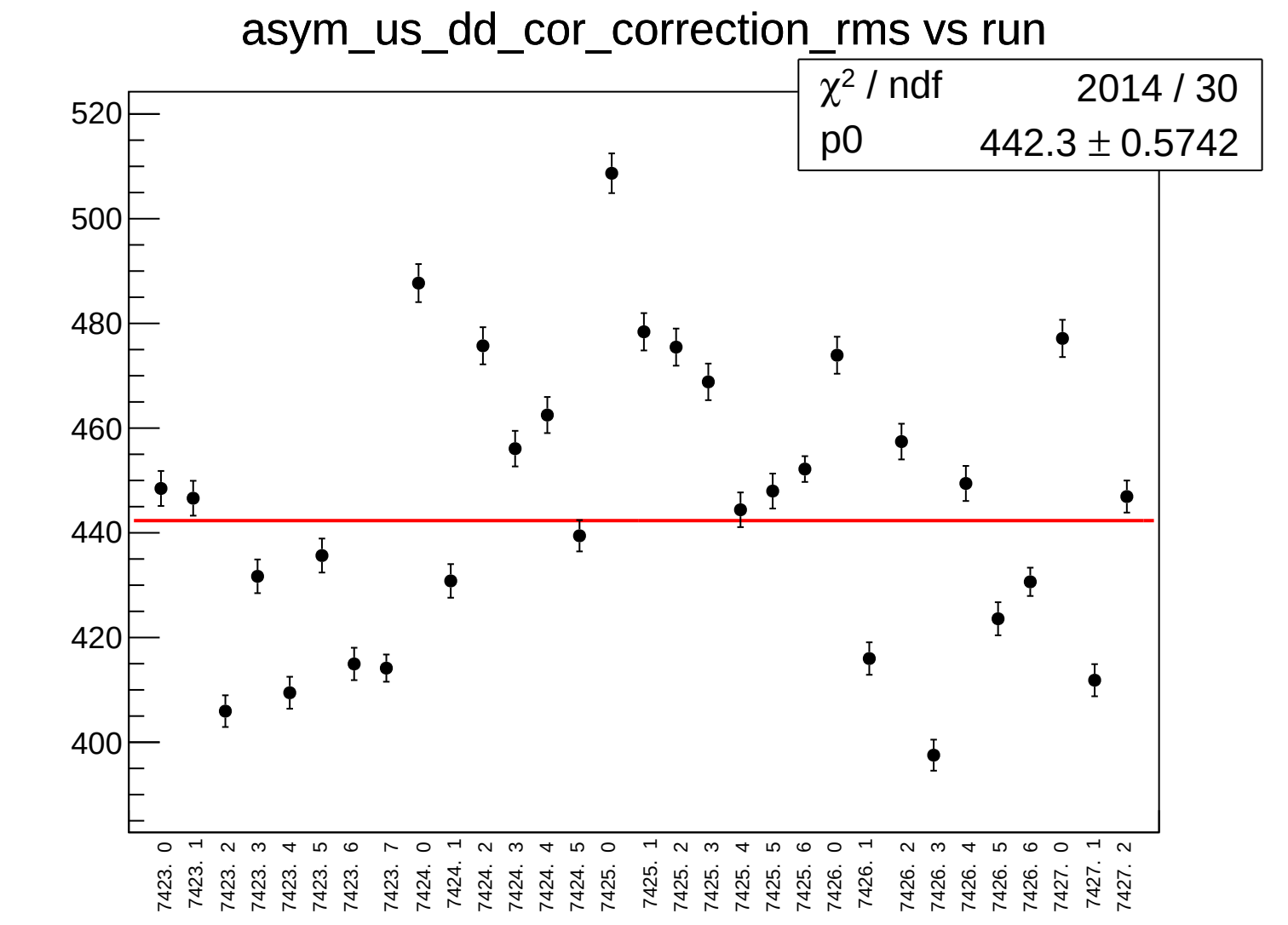

cor_asym_us_dd_mean vs run
χ² / ndf 28.4 / 30
p0 615.1 ± 1407
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −201.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

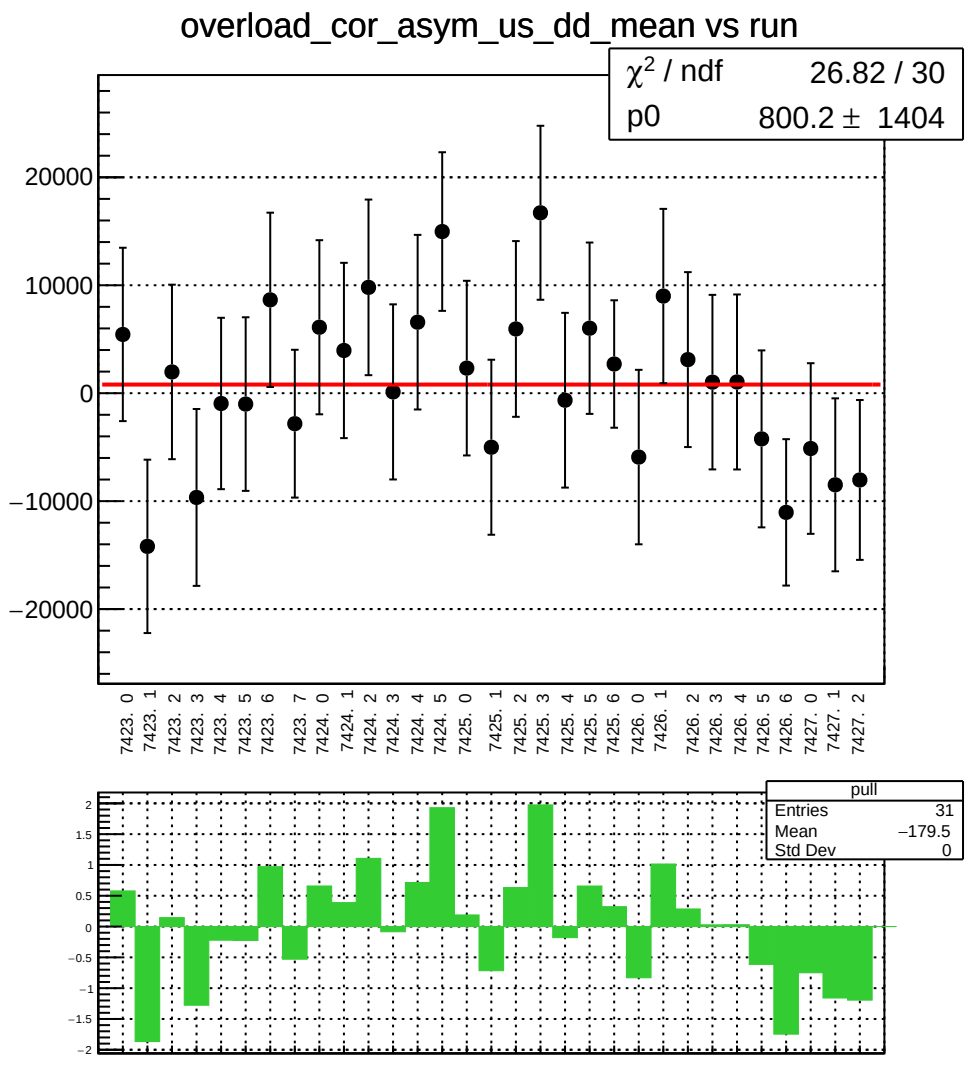

pull1D
Entries 31
Mean 0.007283
Std Dev 0.9571
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

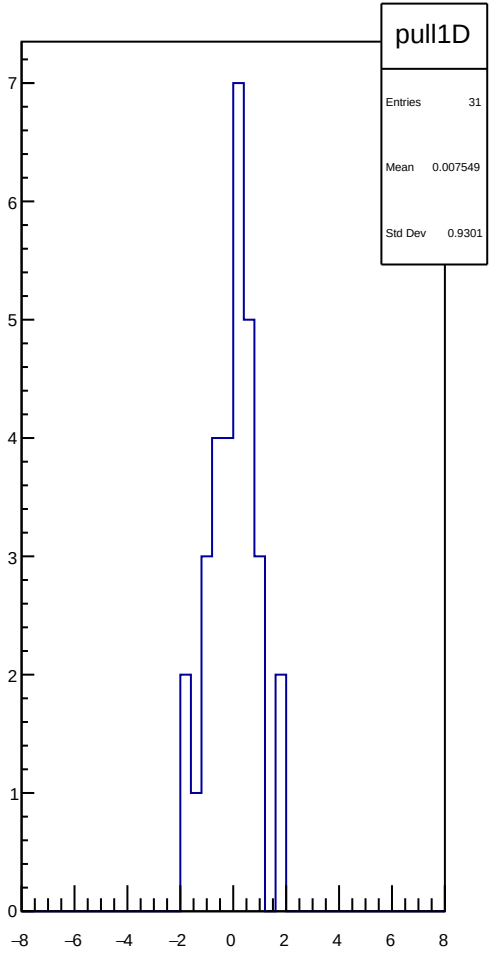

cor_asym_us_dd_rms vs run
χ² / ndf 32.25 / 30
p0 767.9 ± 0.9952
785
780
775
770
765
760
755
750
745
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

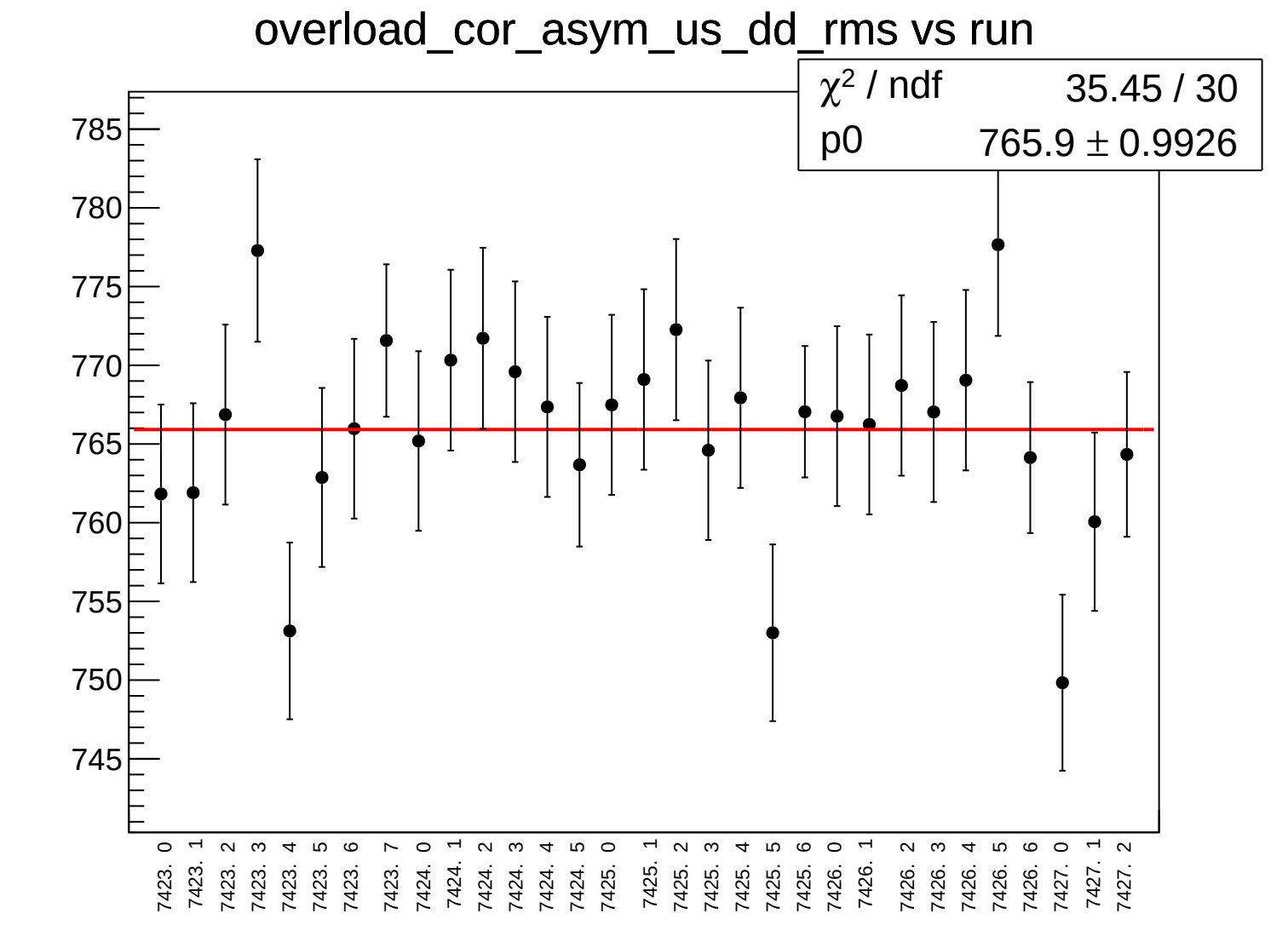

asym_us_dd_cor_correction_mean vs run
χ² / ndf 48.66 / 30
p0 1172 ± 812
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 145.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

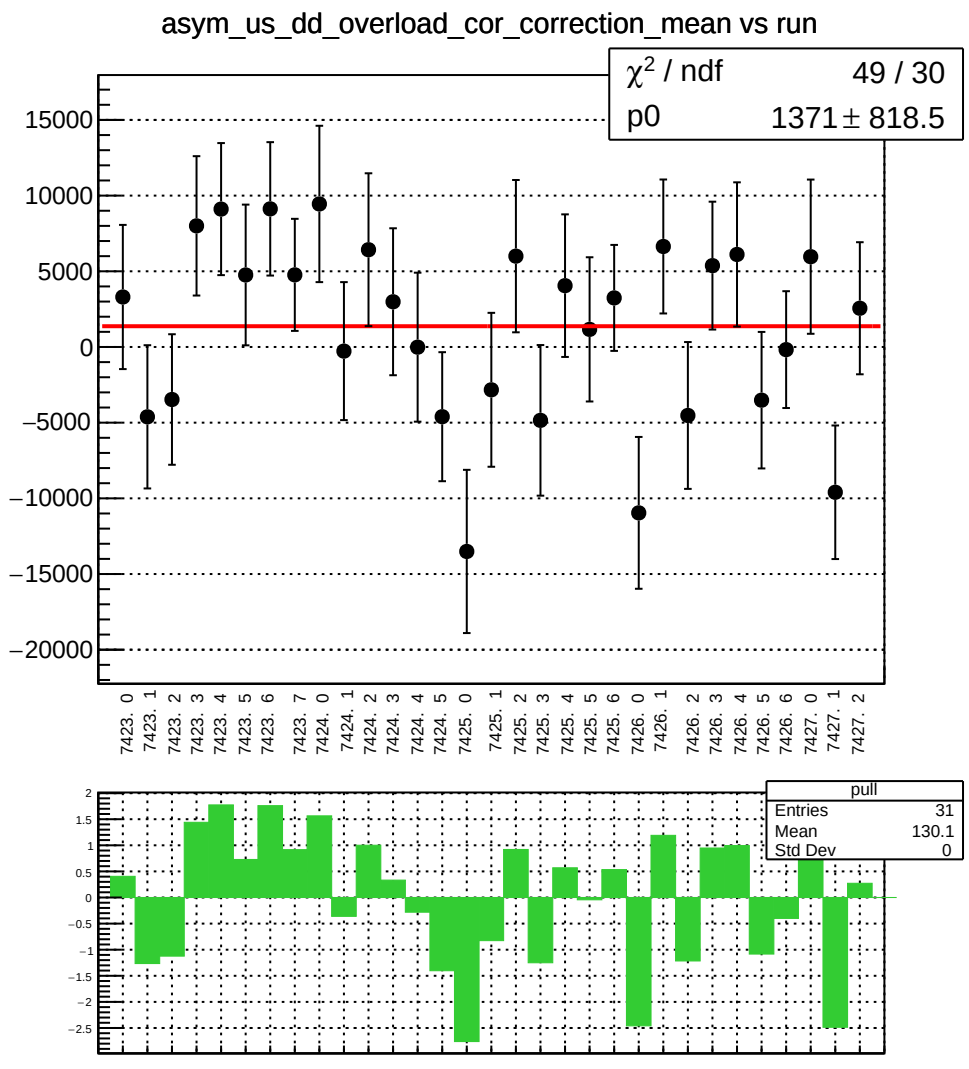

pull1D
Entries 31
Mean −0.0218
Std Dev 1.253
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

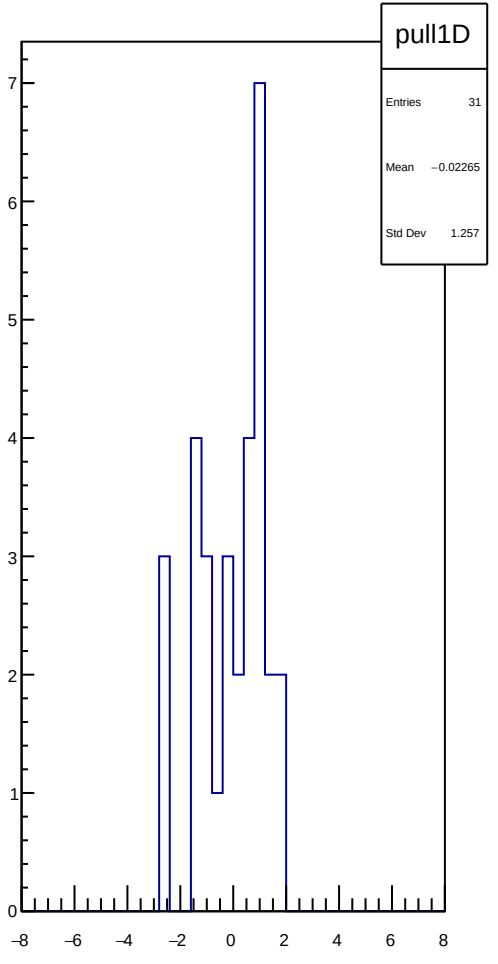

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2014 / 30
p0 442.3 ± 0.5742
520
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

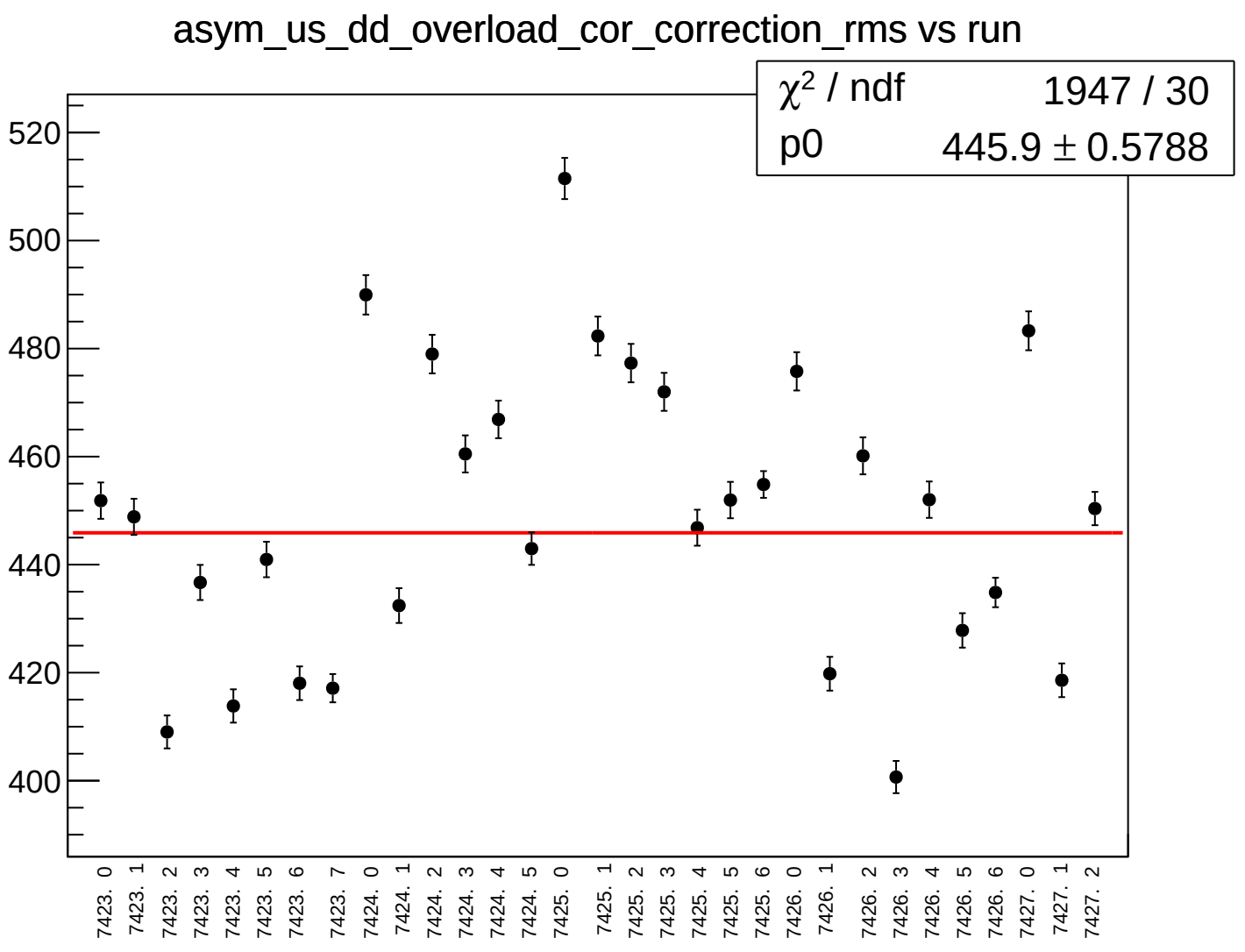

overload_cor_asym_us_dd_mean vs run
χ² / ndf 26.82 / 30
p0 800.2 ± 1404
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −179.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

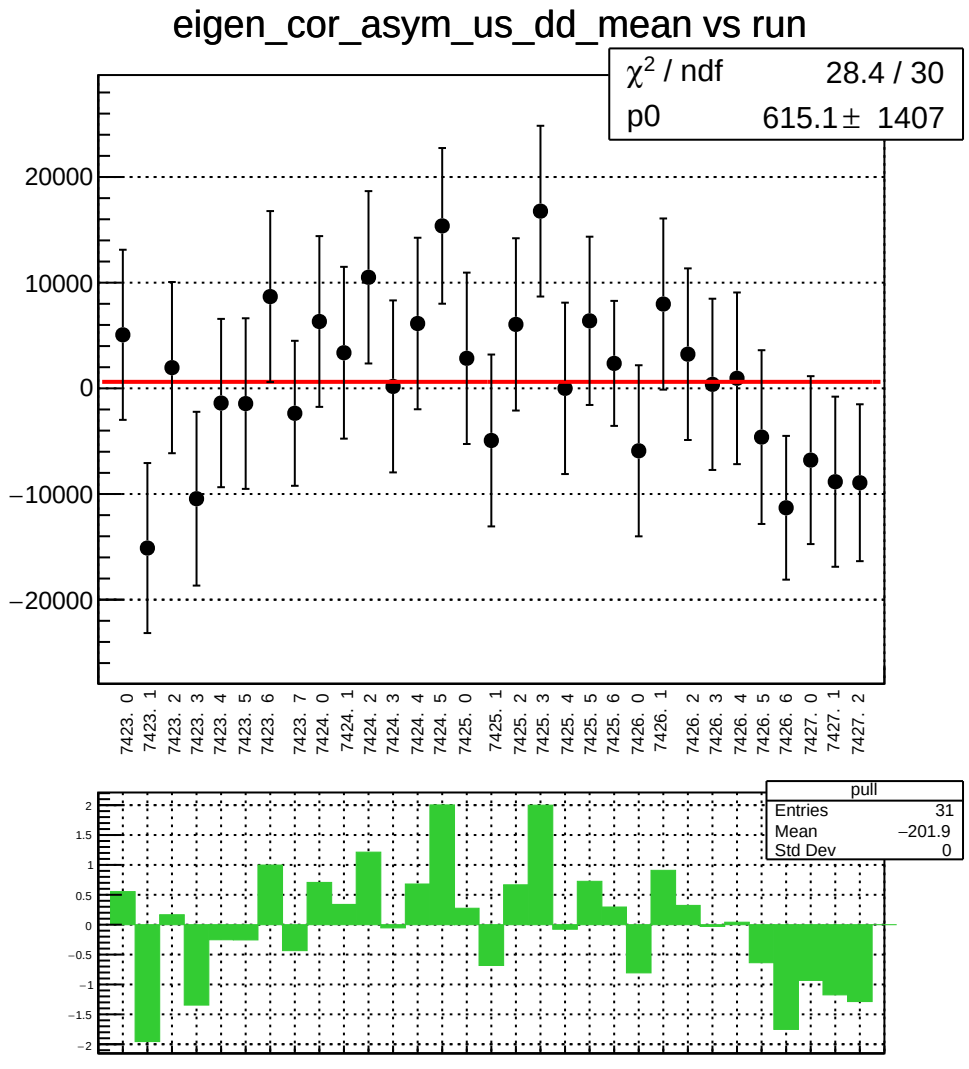

pull1D
Entries 31
Mean 0.007549
Std Dev 0.9301
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

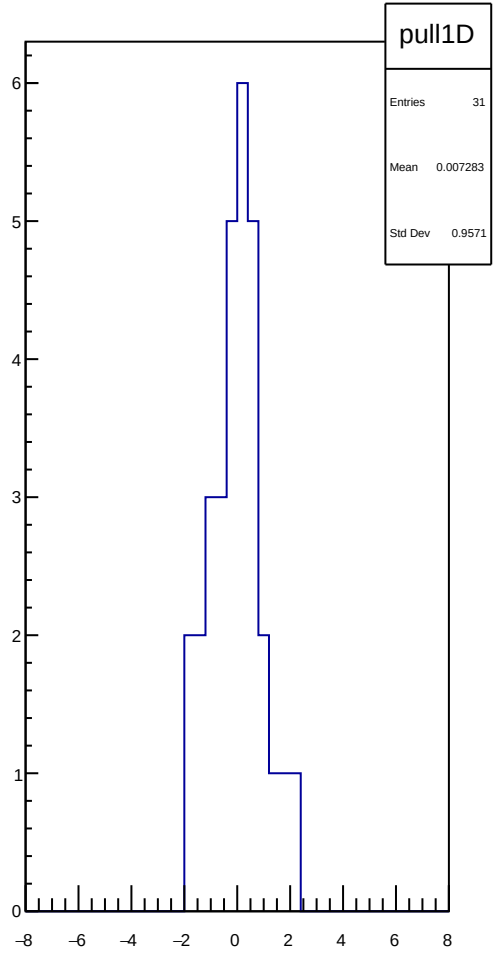

overload_cor_asym_us_dd_rms vs run
χ² / ndf 35.45 / 30
p0 765.9 ± 0.9926
785
780
775
770
765
760
755
750
745
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

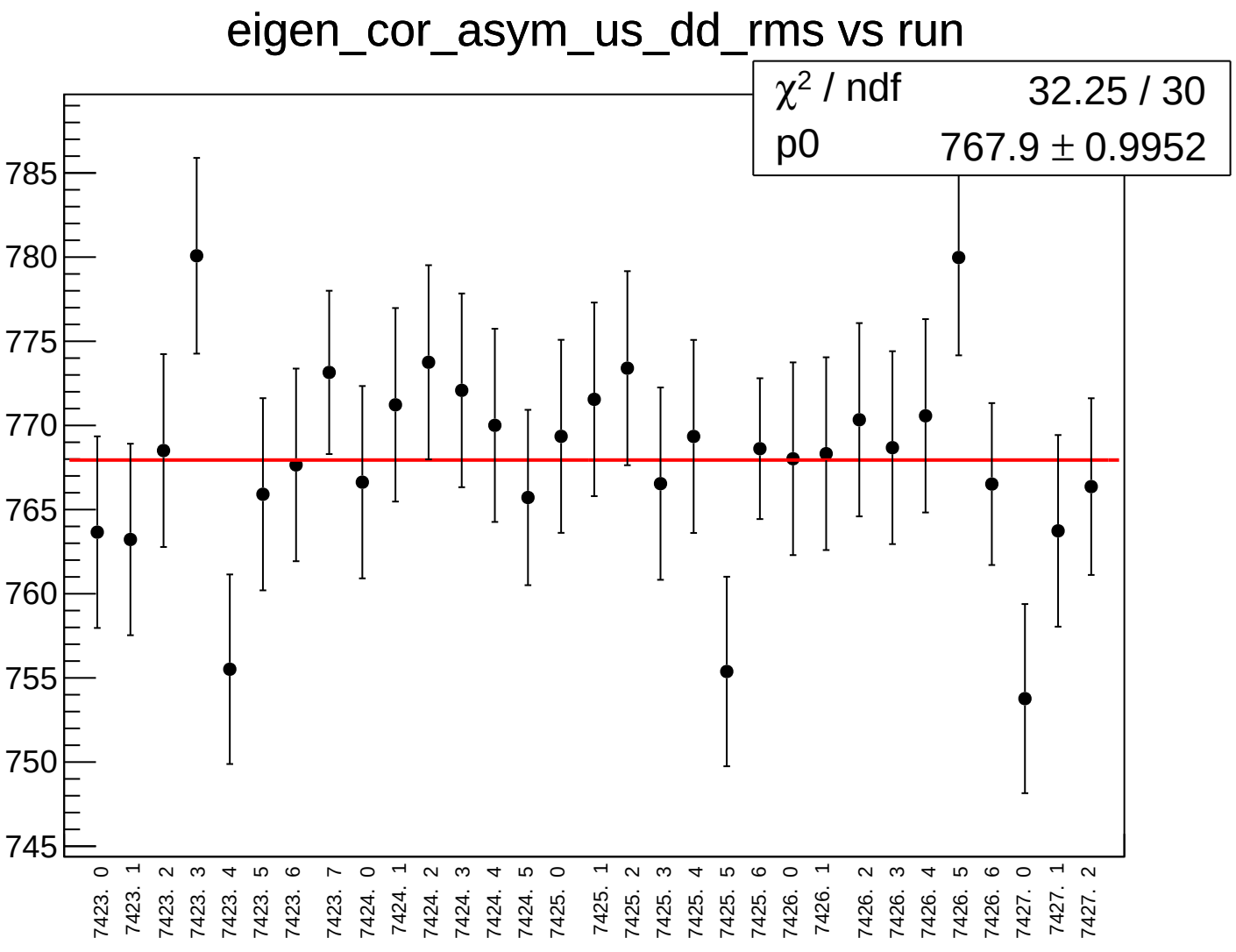

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 49 / 30
p0 1371 ± 818.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 130.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

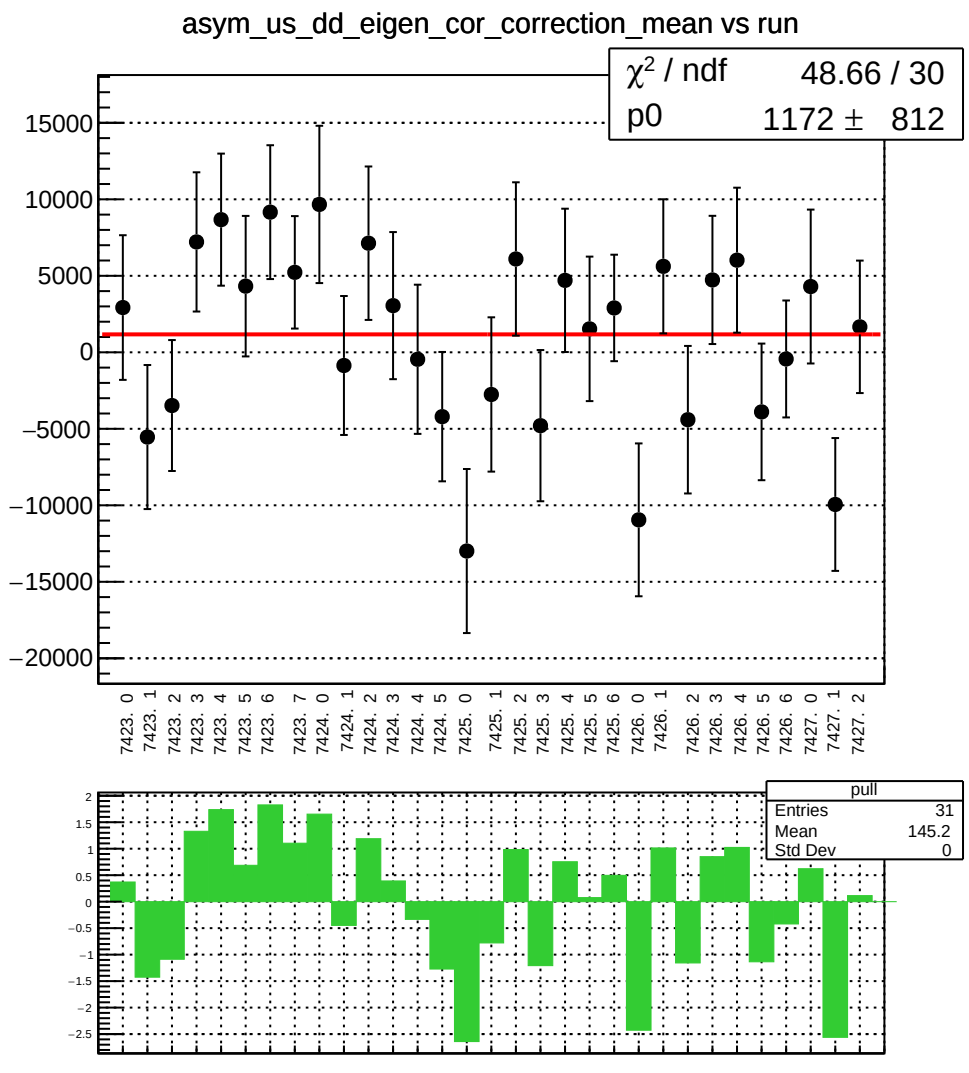

pull1D
Entries 31
Mean −0.02265
Std Dev 1.257
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

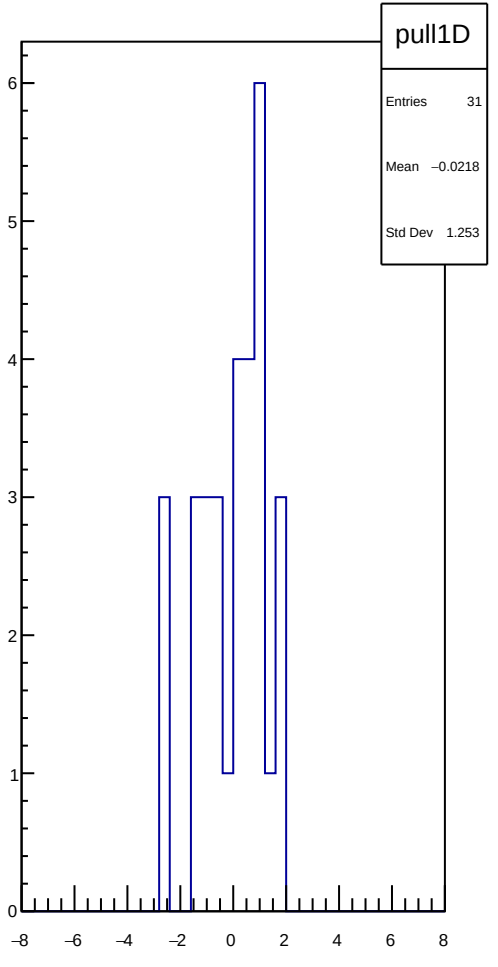

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1947 / 30
p0 445.9 ± 0.5788
520
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

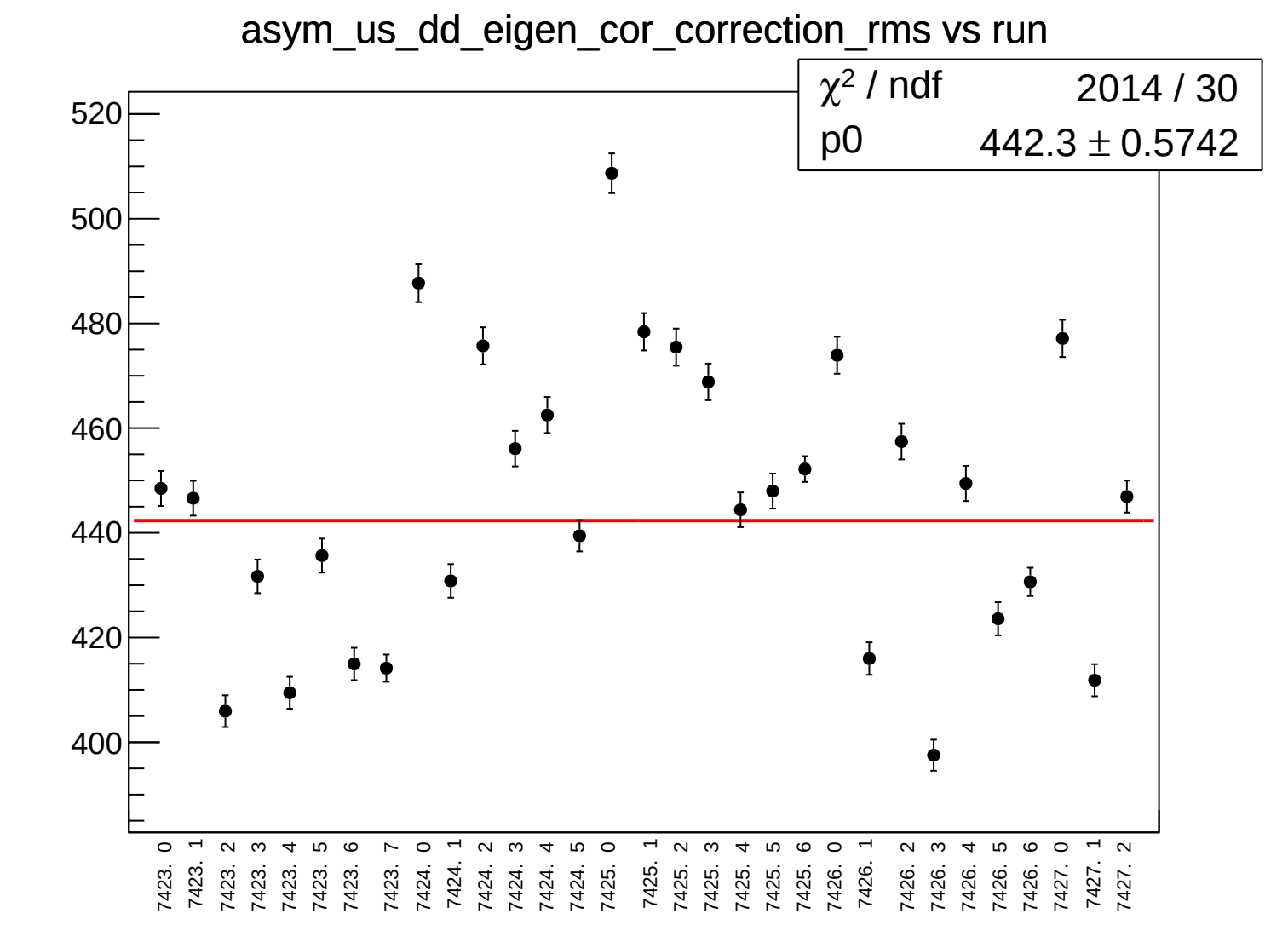

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 28.4 / 30
p0 615.1 ± 1407
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −201.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

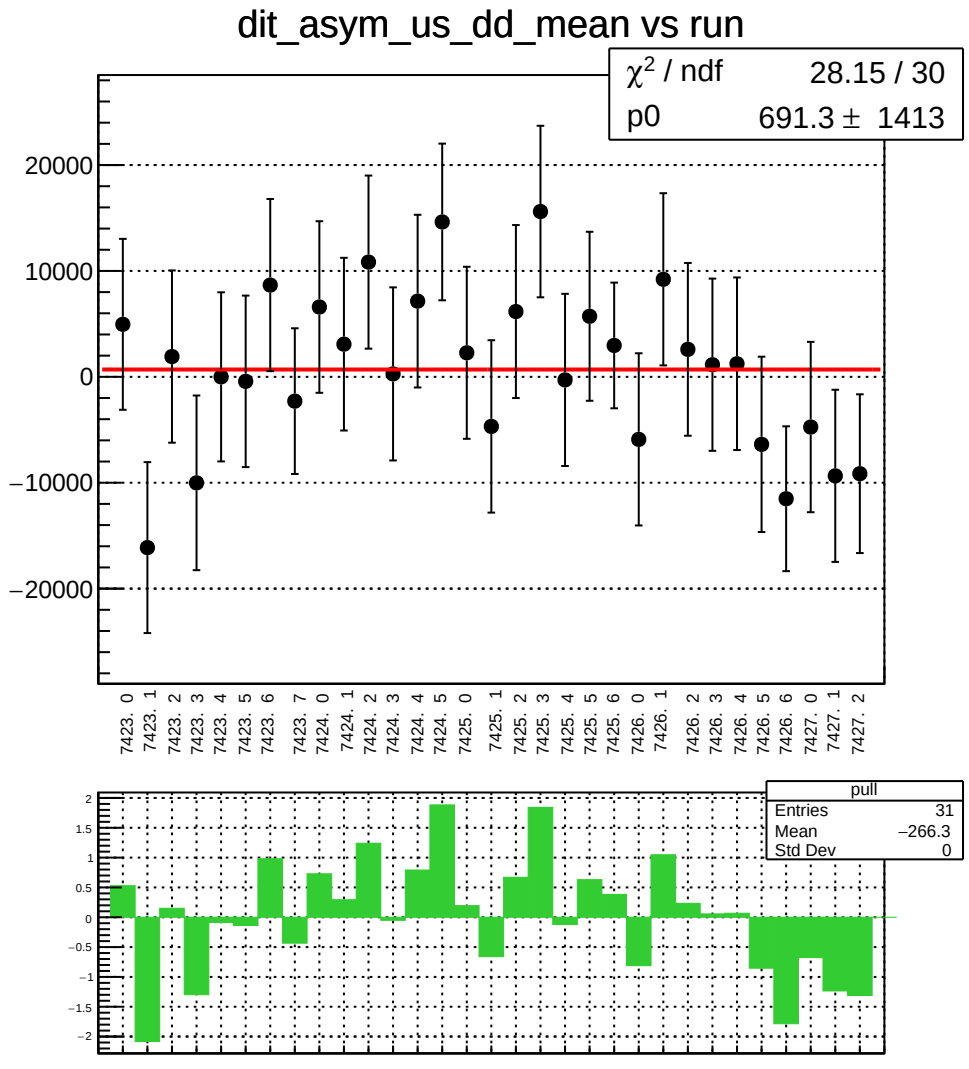

pull1D
Entries 31
Mean 0.007283
Std Dev 0.9571
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

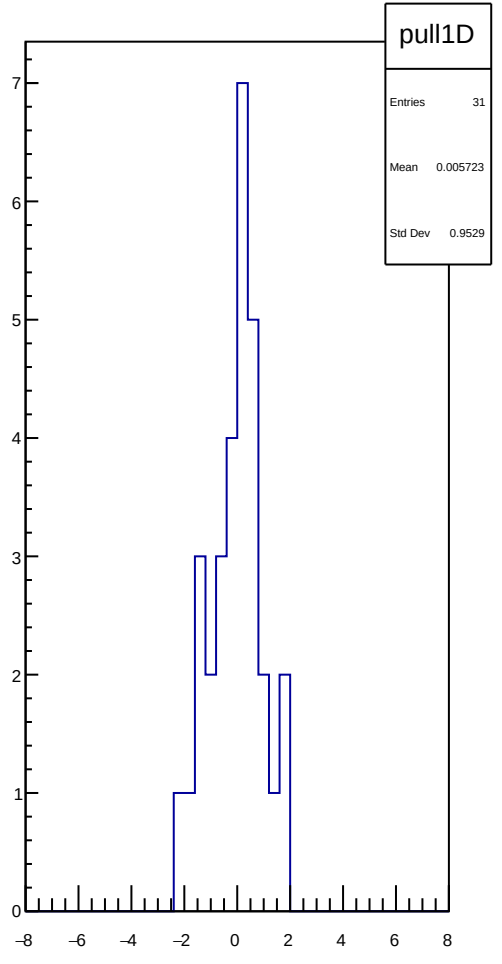

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 32.25 / 30
p0 767.9 ± 0.9952
785
780
775
770
765
760
755
750
745
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

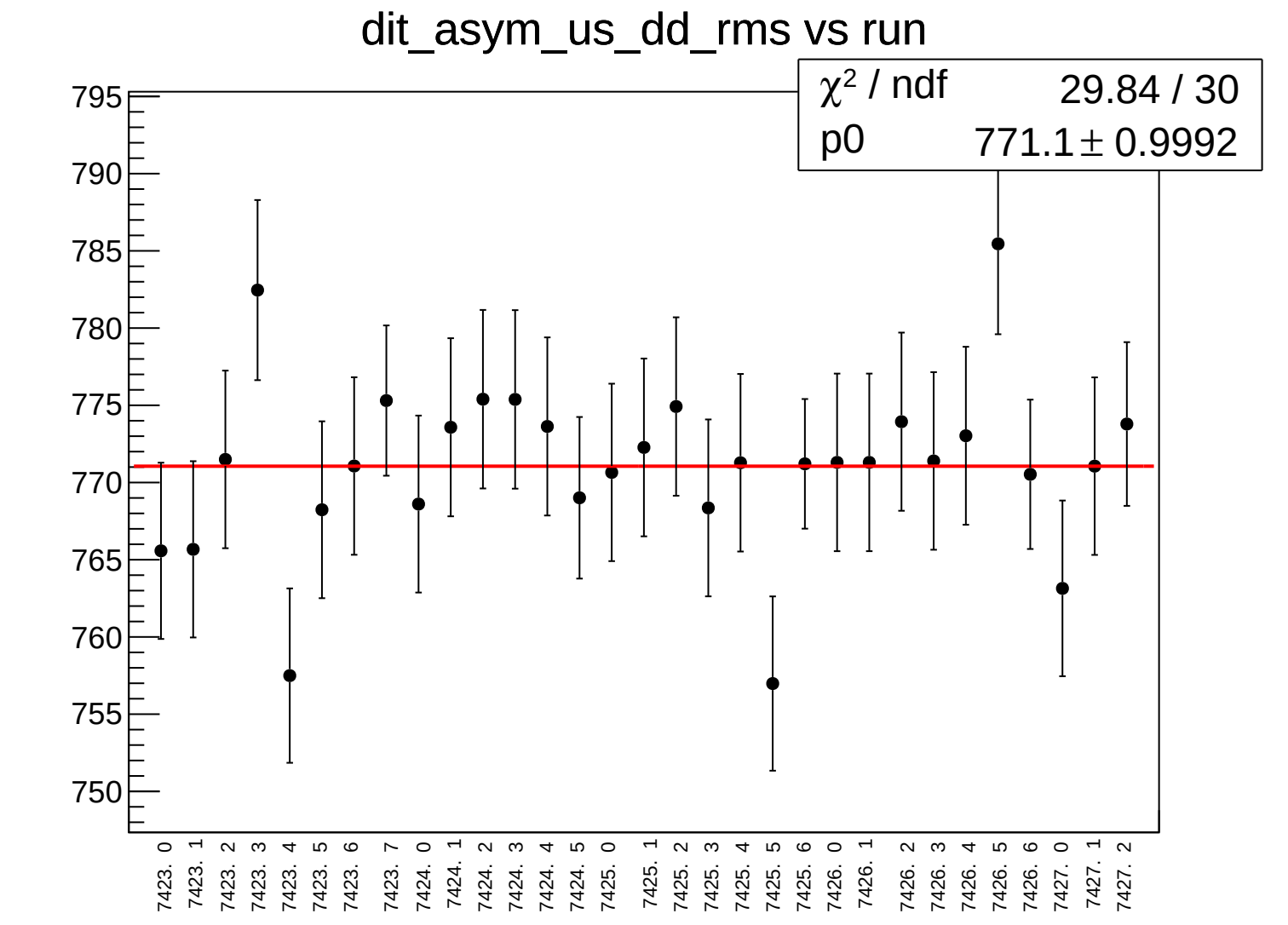

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 48.66 / 30
p0 1172 ± 812
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 145.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

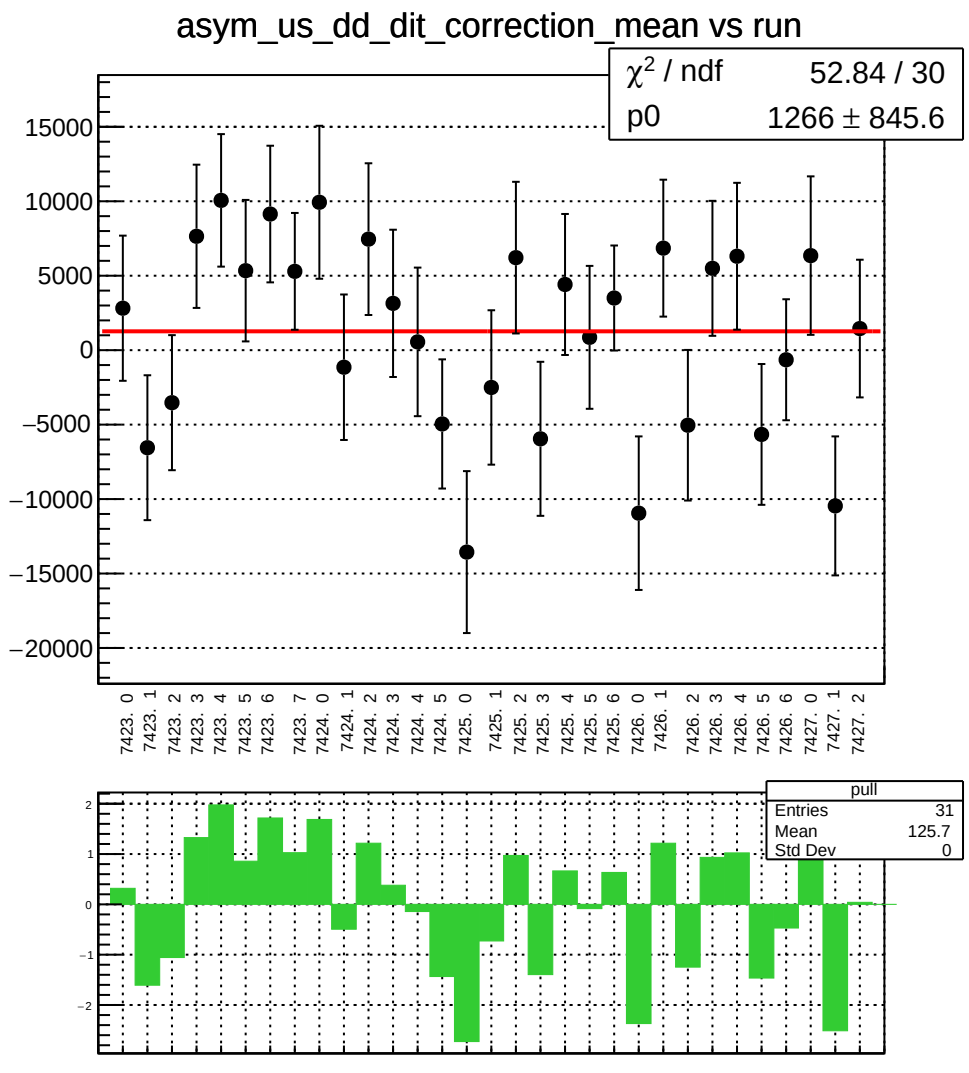

pull1D
Entries 31
Mean −0.0218
Std Dev 1.253
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

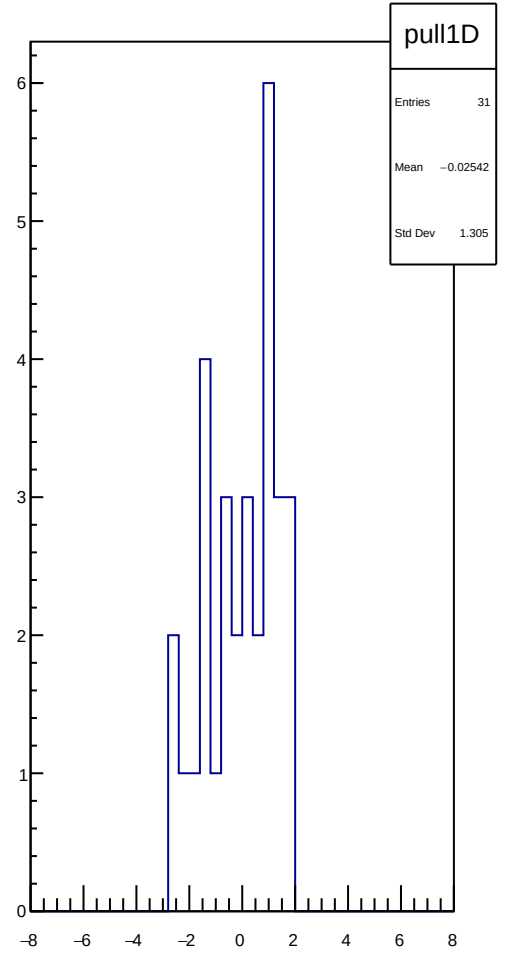

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2014 / 30
p0 442.3 ± 0.5742
520
500
480
460
440
420
400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

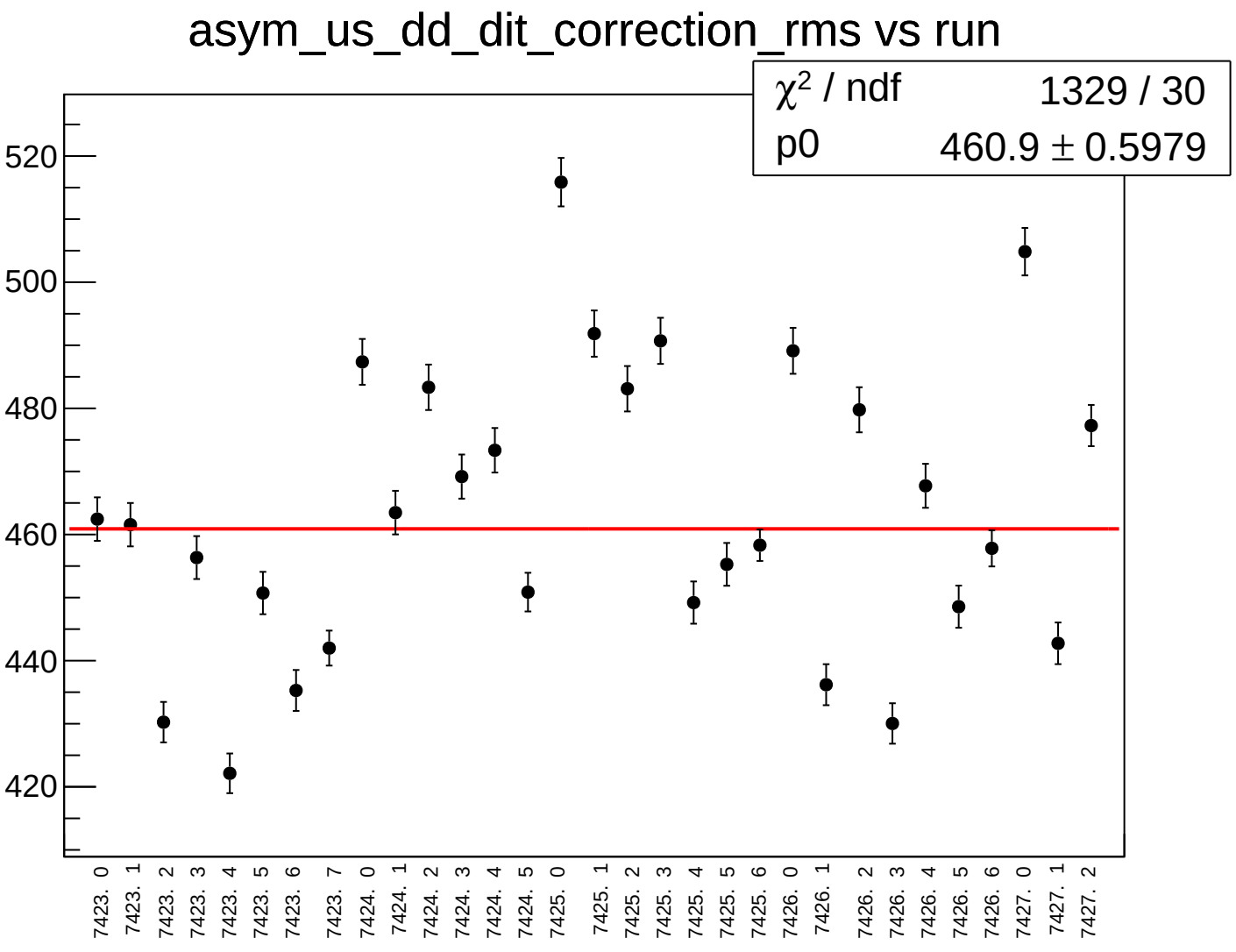

dit_asym_us_dd_mean vs run
χ² / ndf 28.15 / 30
p0 691.3 ± 1413
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

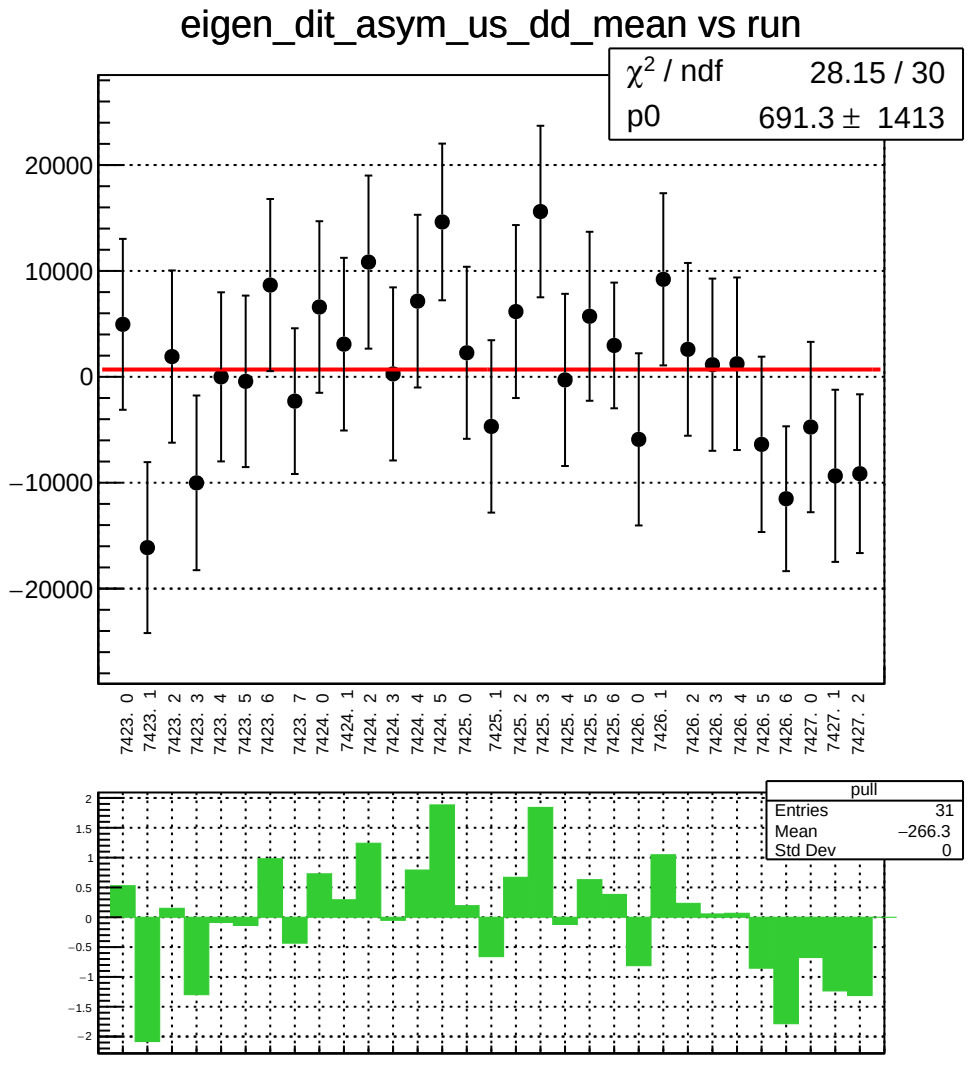

pull1D
Entries 31
Mean 0.005723
Std Dev 0.9529
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

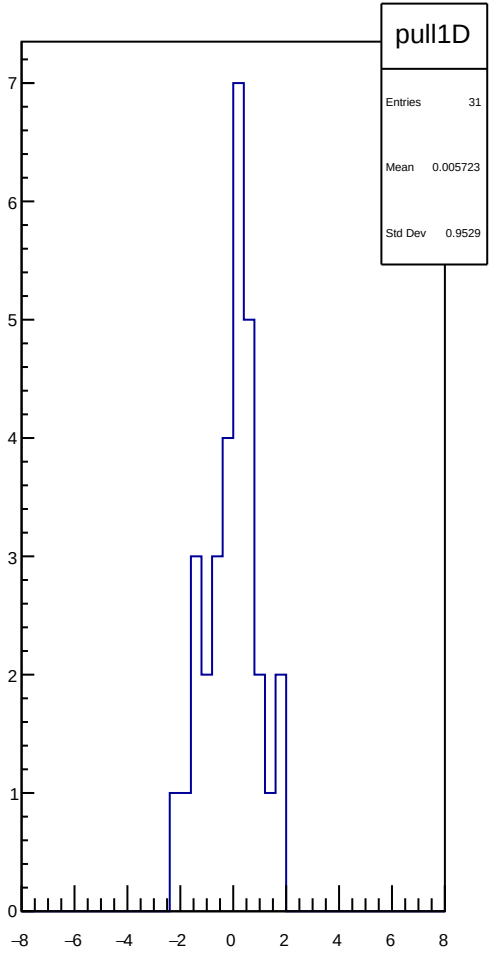

dit_asym_us_dd_rms vs run
χ² / ndf 29.84 / 30
p0 771.1 ± 0.9992
795
790
785
780
775
770
765
760
755
750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

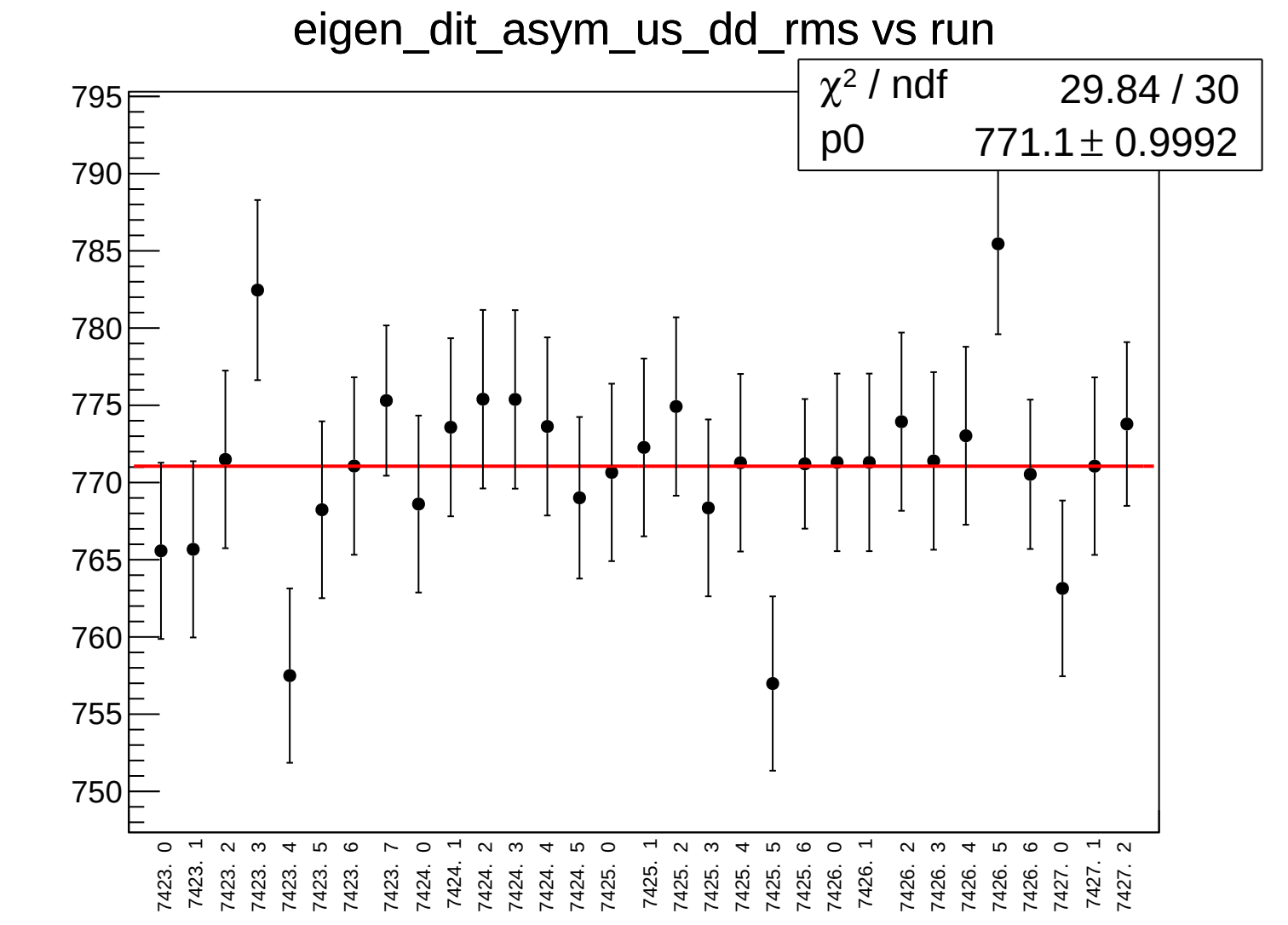

asym_us_dd_dit_correction_mean vs run
χ² / ndf 52.84 / 30
p0 1266 ± 845.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 125.7
Std Dev 0
2
1
0
−1
−2

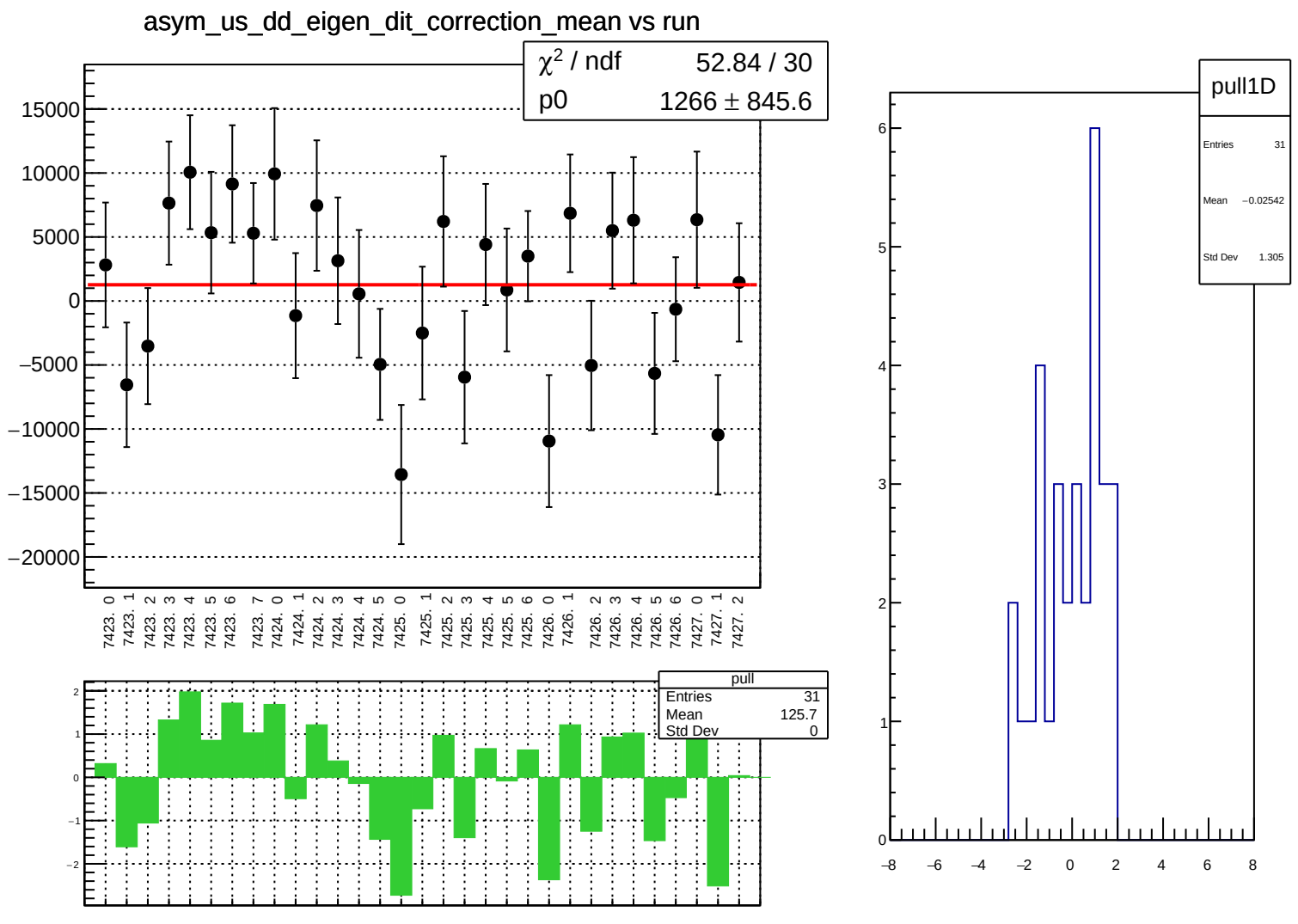

pull1D
Entries 31
Mean −0.02542
Std Dev 1.305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

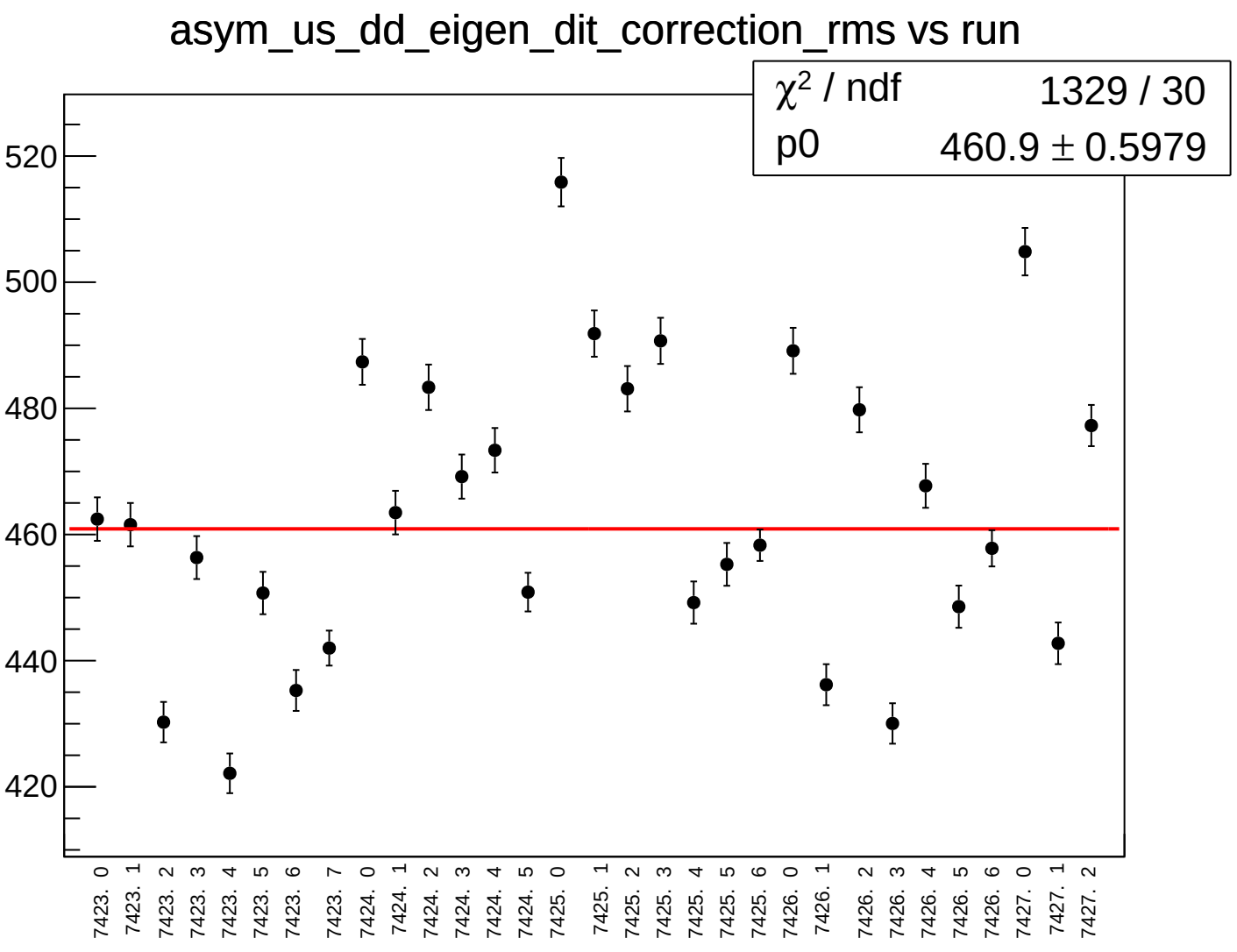

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1329 / 30
p0 460.9 ± 0.5979
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

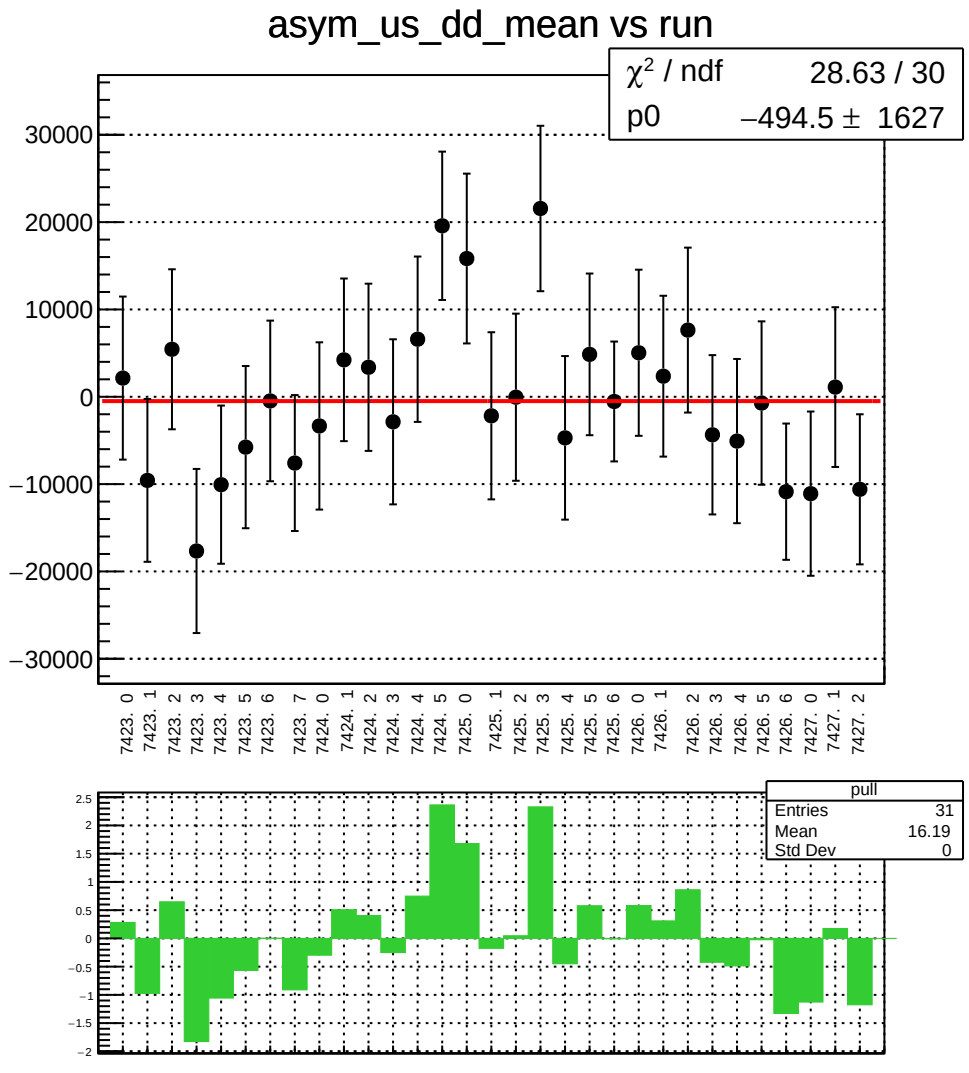

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 28.15 / 30
p0 691.3 ± 1413
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

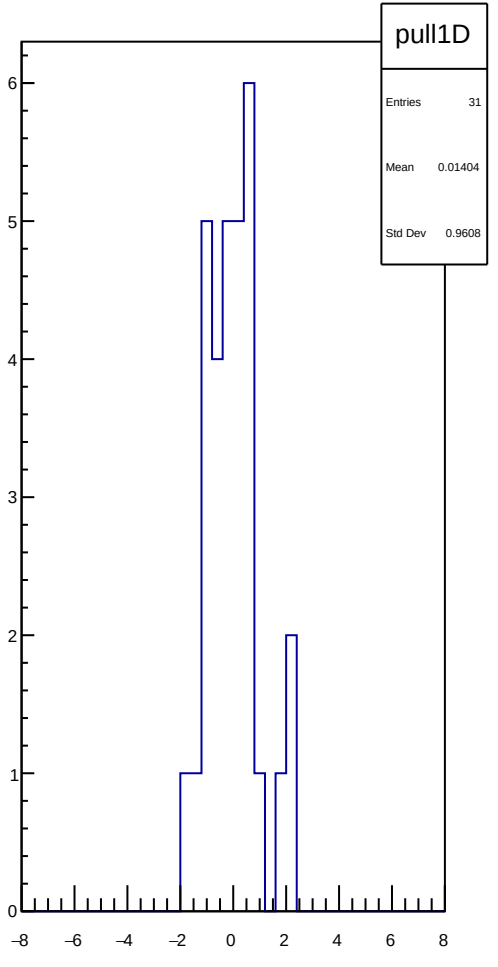

pull1D
Entries 31
Mean 0.005723
Std Dev 0.9529
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

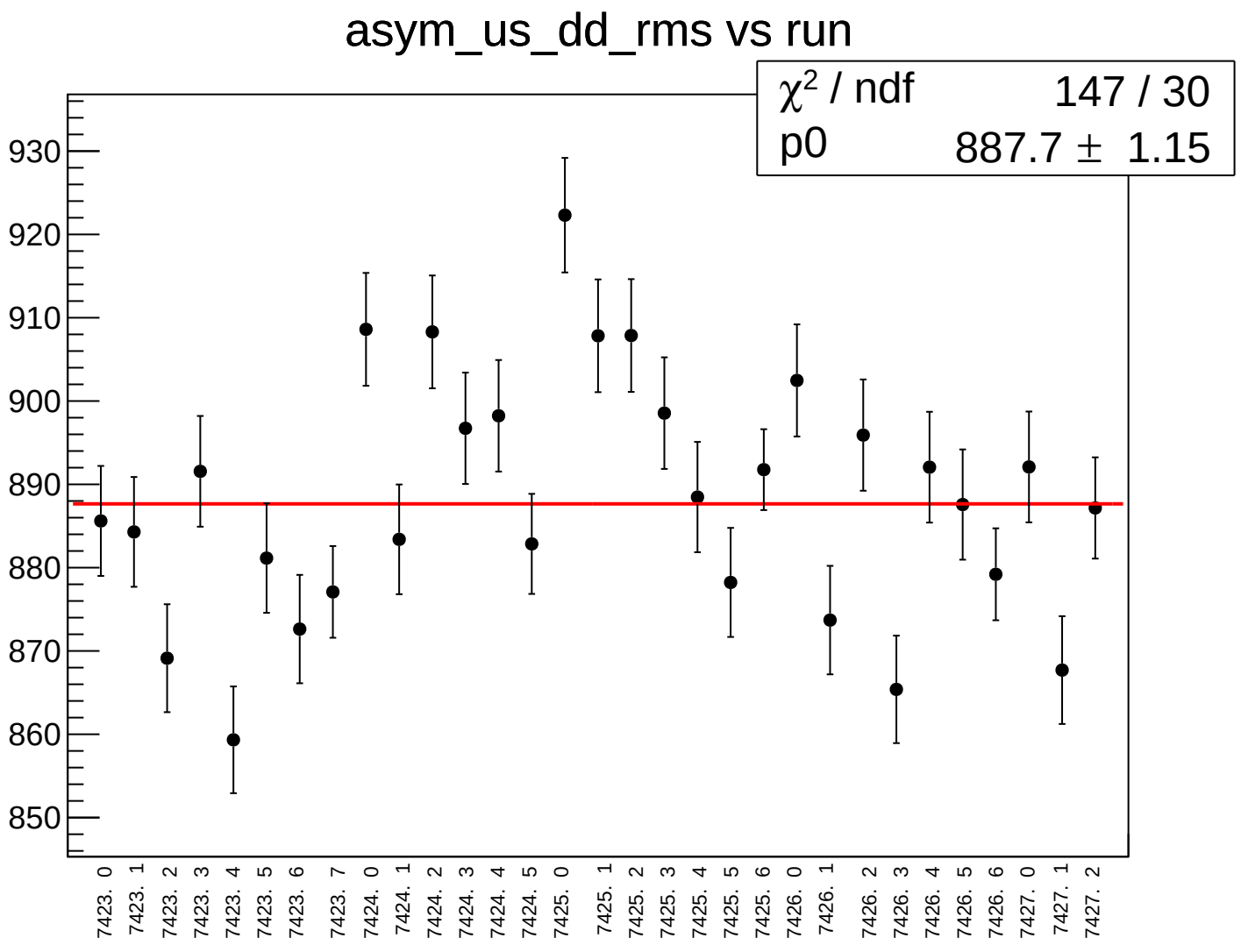

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 29.84 / 30
p0 771.1 ± 0.9992
795
790
785
780
775
770
765
760
755
750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

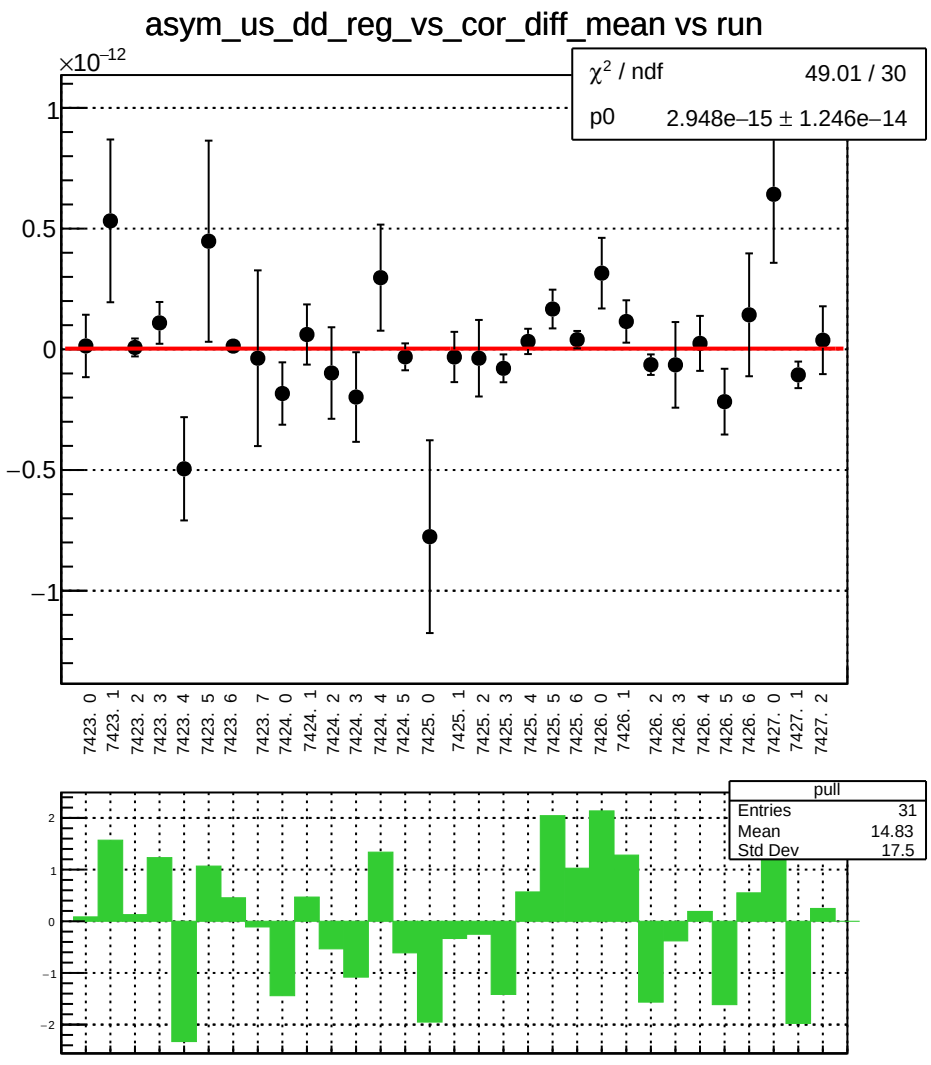

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 52.84 / 30
p0 1266 ± 845.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 125.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.02542
Std Dev 1.305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

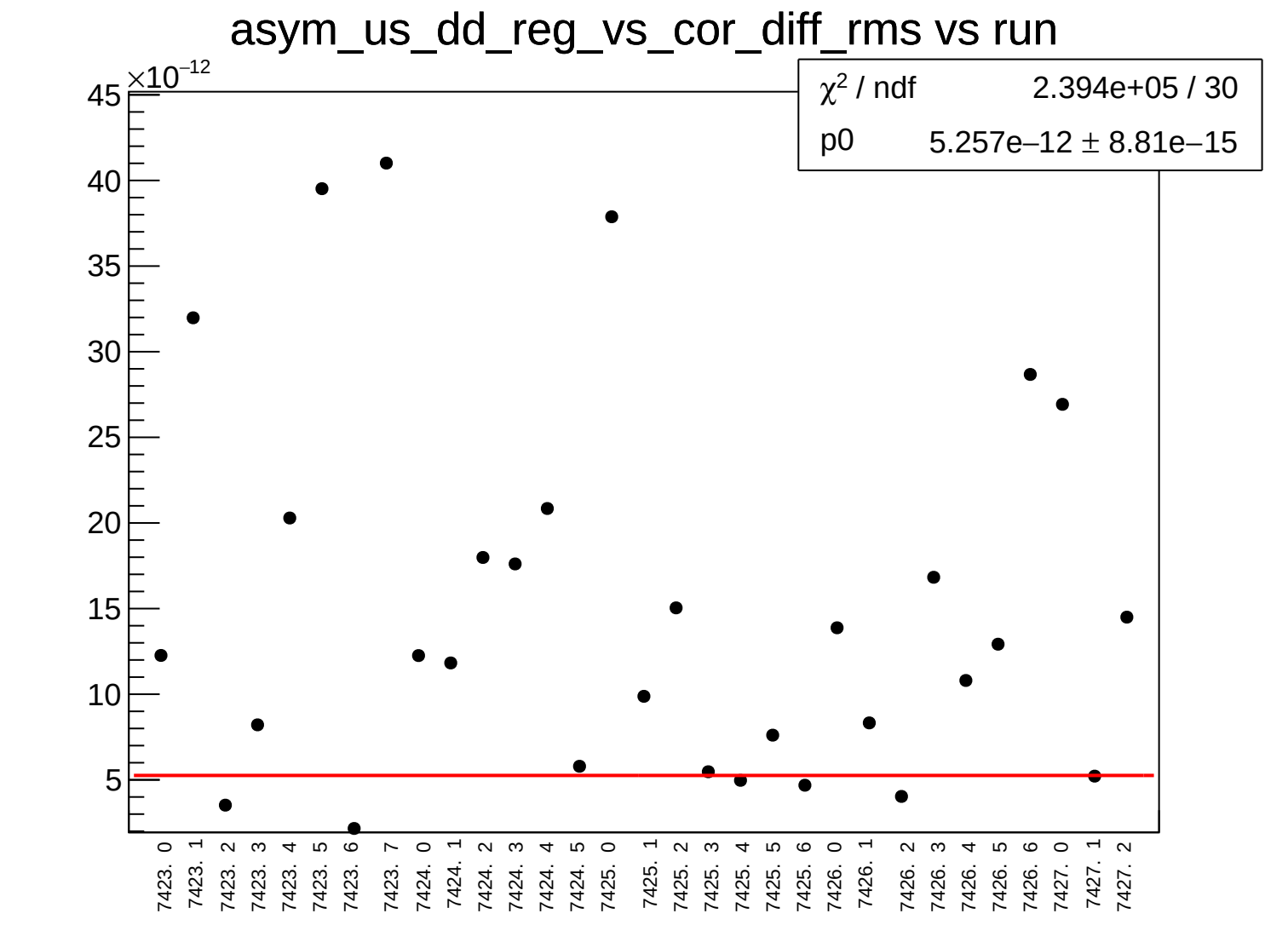

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1329 / 30
p0 460.9 ± 0.5979
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

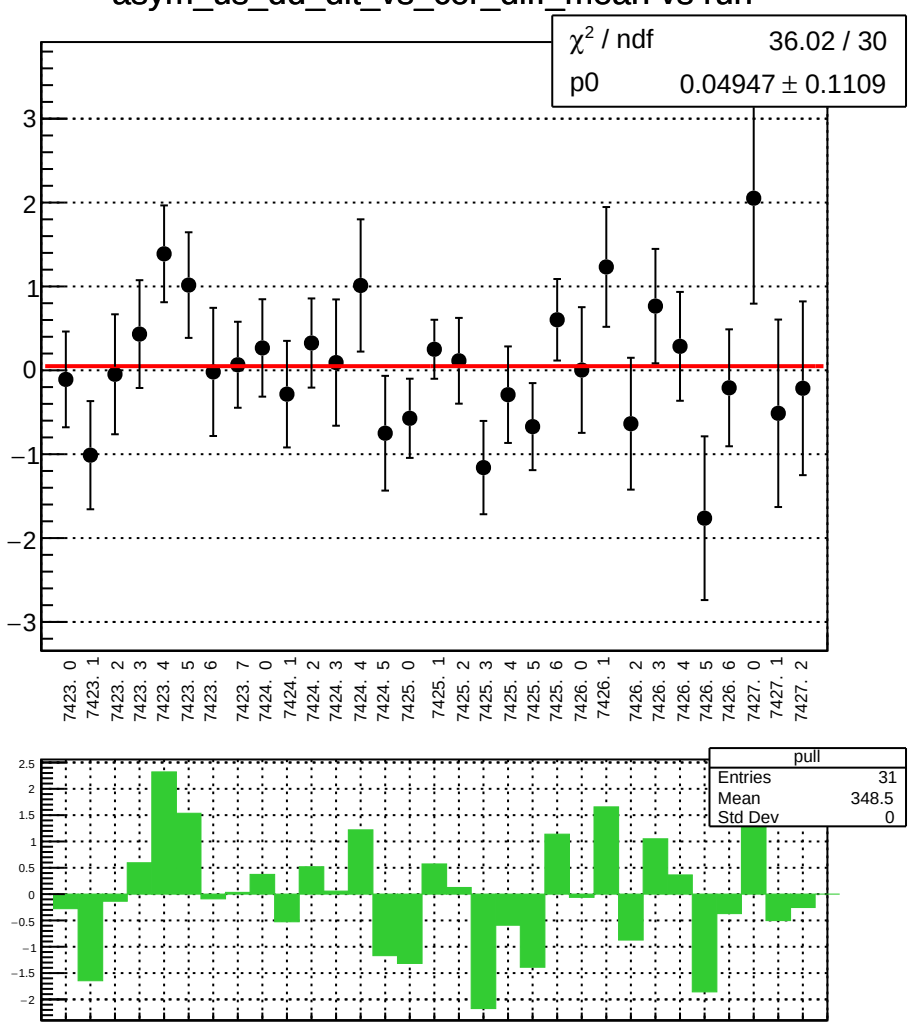

asym_us_dd_mean vs run
χ² / ndf 28.63 / 30
p0 −494.5 ± 1627
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.19
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

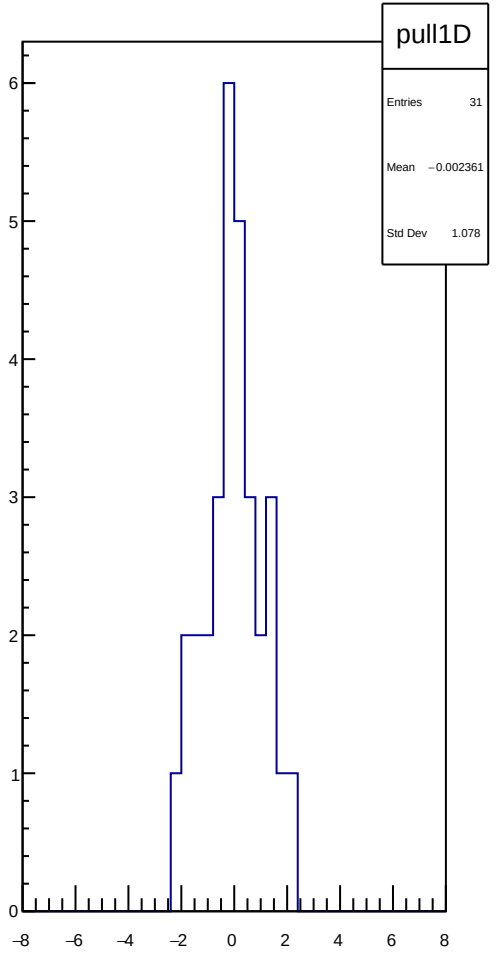

pull1D
Entries 31
Mean 0.01404
Std Dev 0.9608
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

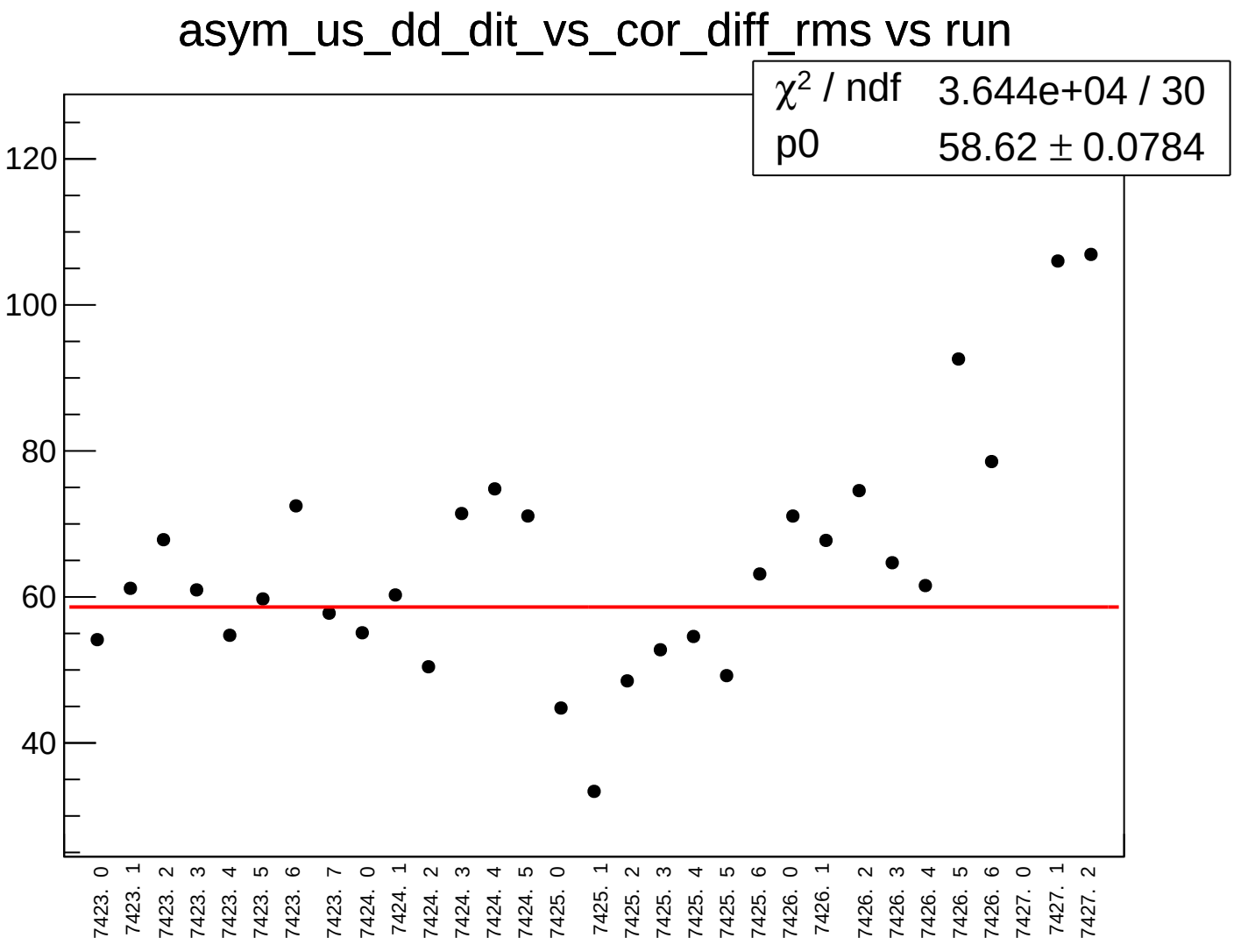

asym_us_dd_rms vs run
χ² / ndf 147 / 30
p0 887.7 ± 1.15
930
920
910
900
890
880
870
860
850
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

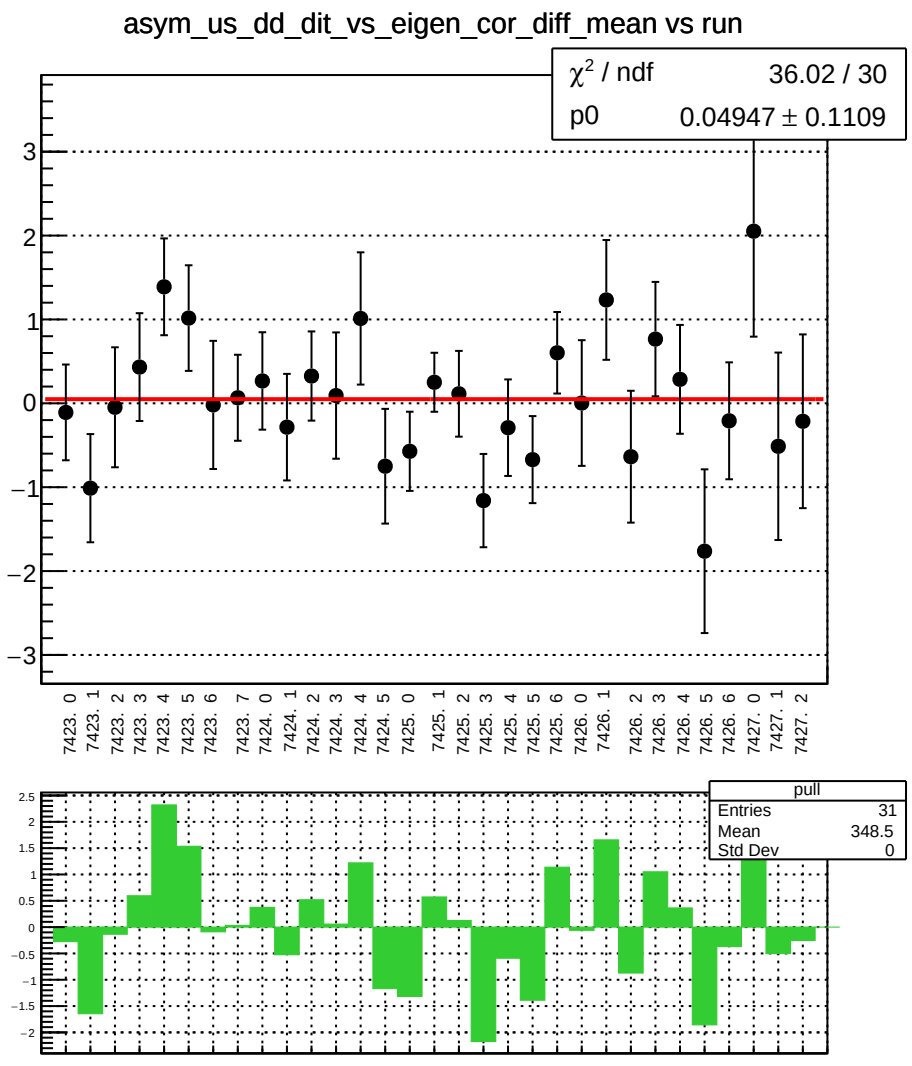

asym_us_dd_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 49.01 / 30
p0 2.948e−15 ± 1.246e−14
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.83
Std Dev 17.5
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.03391
Std Dev 1.257
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

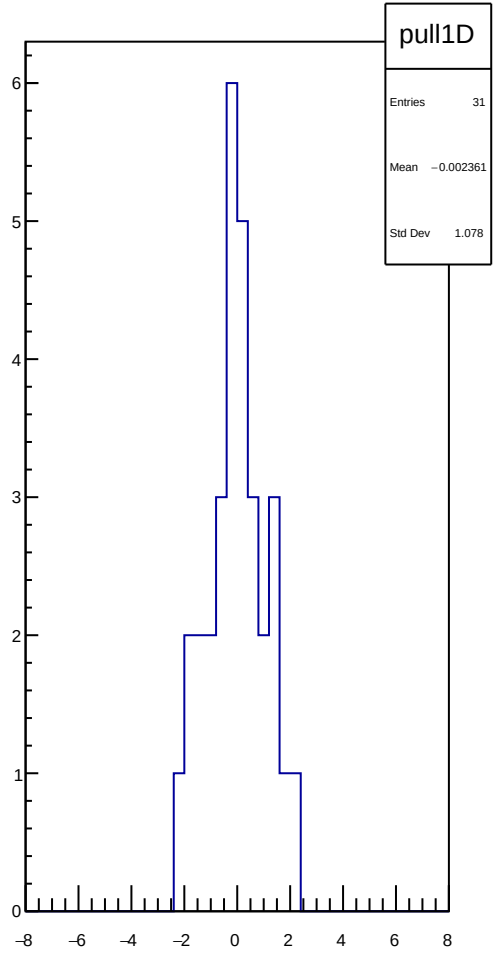

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.394e+05 / 30
p0 5.257e−12 ± 8.81e−15
45
40
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

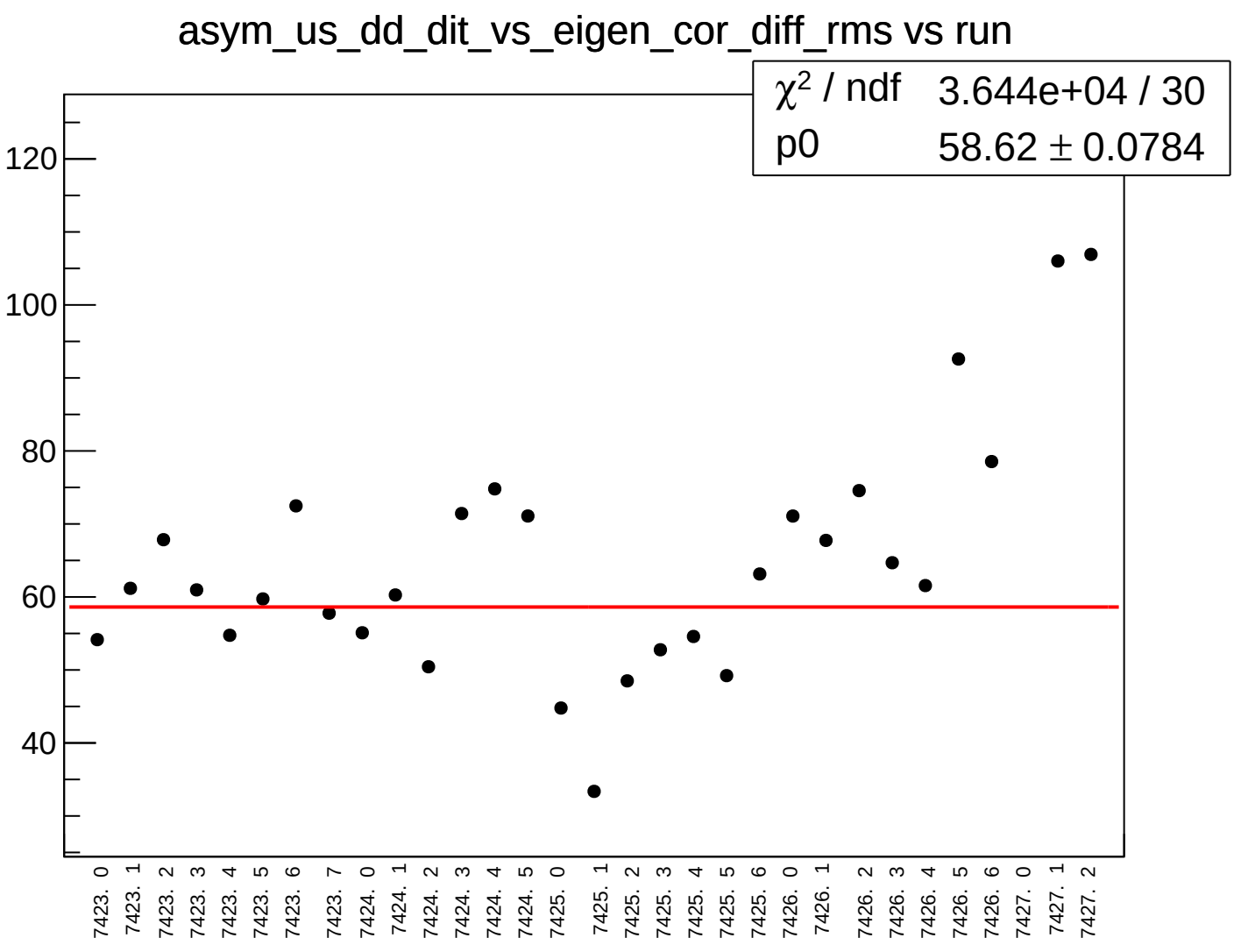

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.02 / 30
p0 0.04947 ± 0.1109
pull
Entries 31
Mean 348.5
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

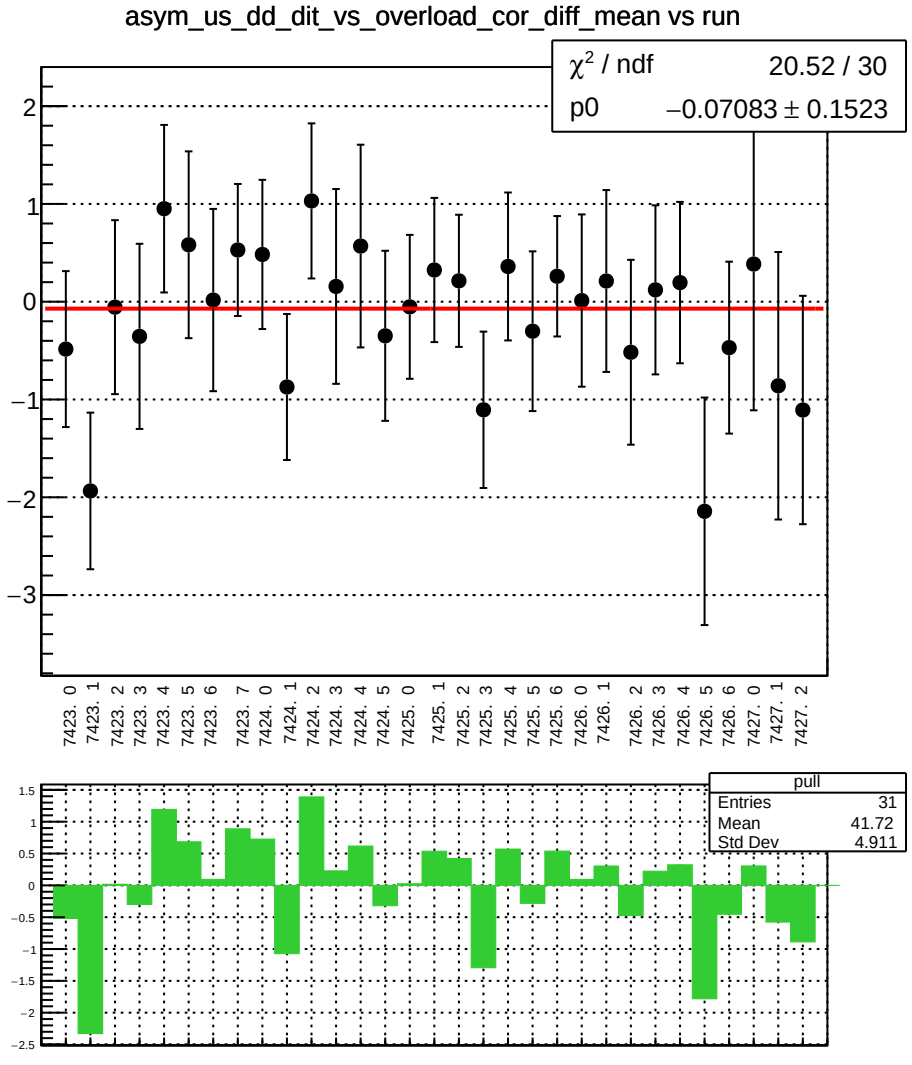

pull1D
Entries 31
Mean −0.002361
Std Dev 1.078

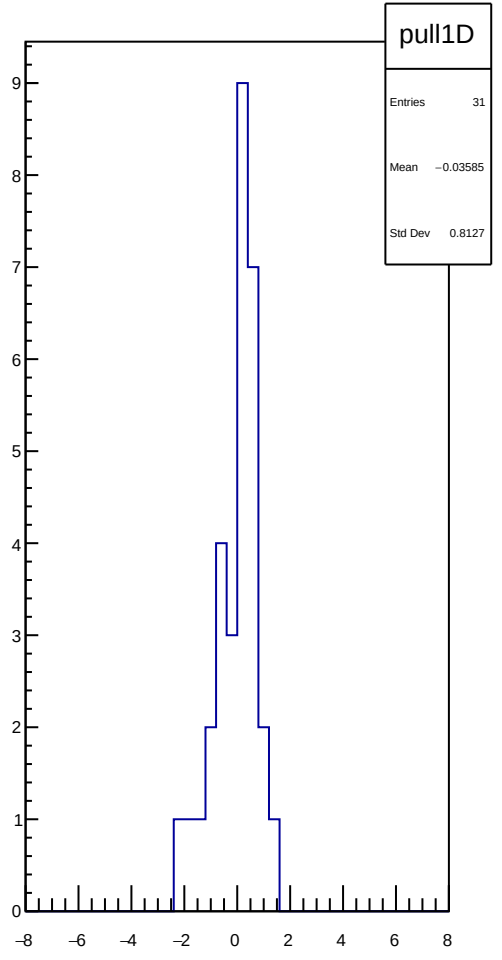

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.644e+04 / 30
p0 58.62 ± 0.0784
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

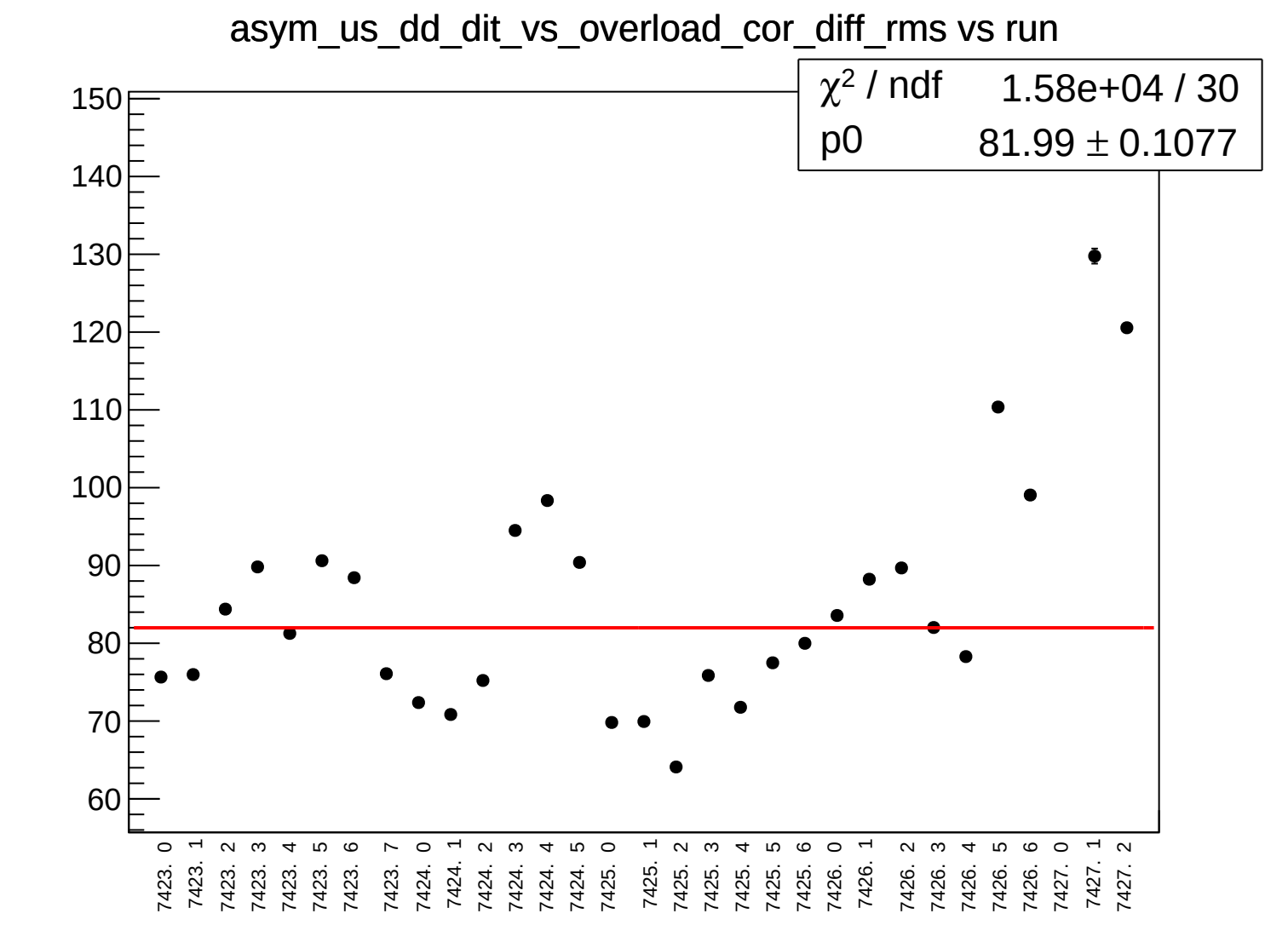

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.02 / 30
p0 0.04947 ± 0.1109
3
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 348.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

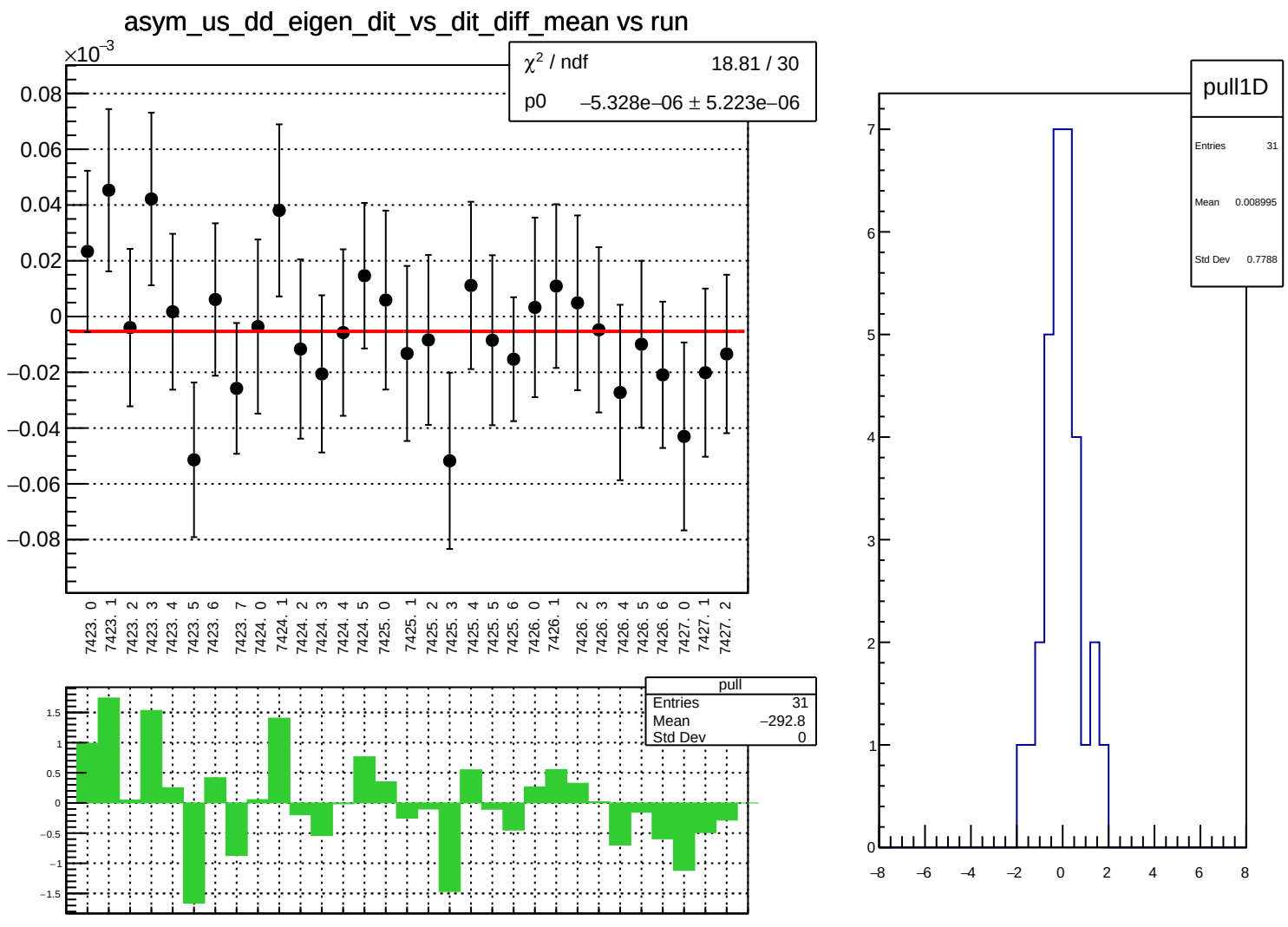

pull1D
Entries 31
Mean −0.002361
Std Dev 1.078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

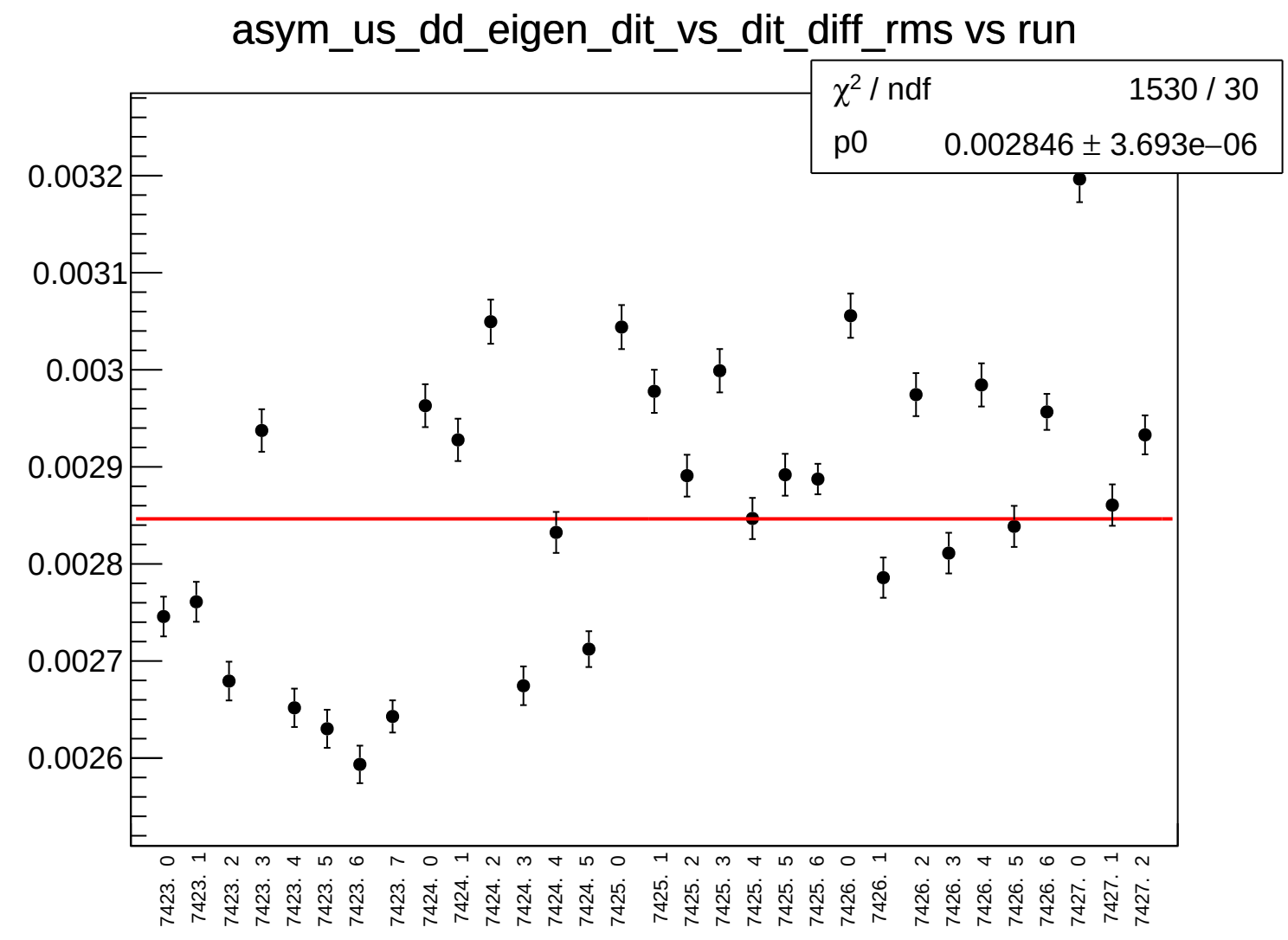

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.644e+04 / 30
p0 58.62 ± 0.0784
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 20.52 / 30
p0 −0.07083 ± 0.1523
pull
Entries 31
Mean 41.72
Std Dev 4.911
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

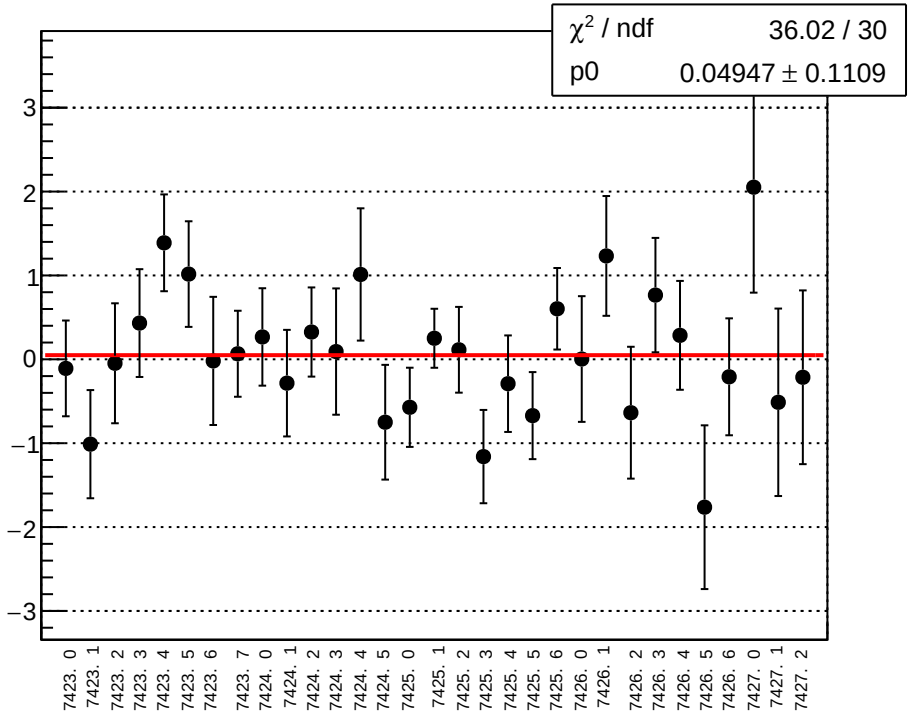

pull1D
Entries 31
Mean −0.03585
Std Dev 0.8127

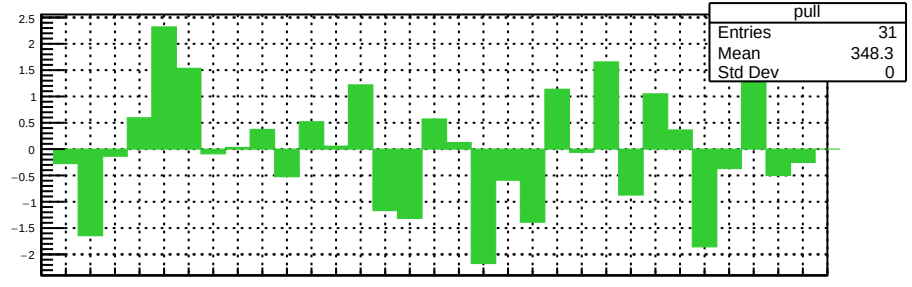

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.58e+04 / 30
p0 81.99 ± 0.1077
150
140
130
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

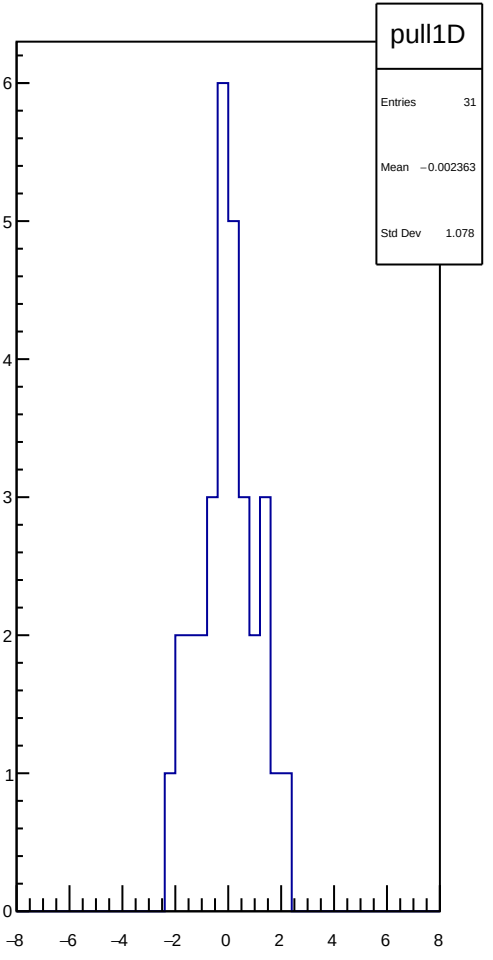

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.81 / 30
p0 −5.328e−06 ± 5.223e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −292.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.008995
Std Dev 0.7788
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

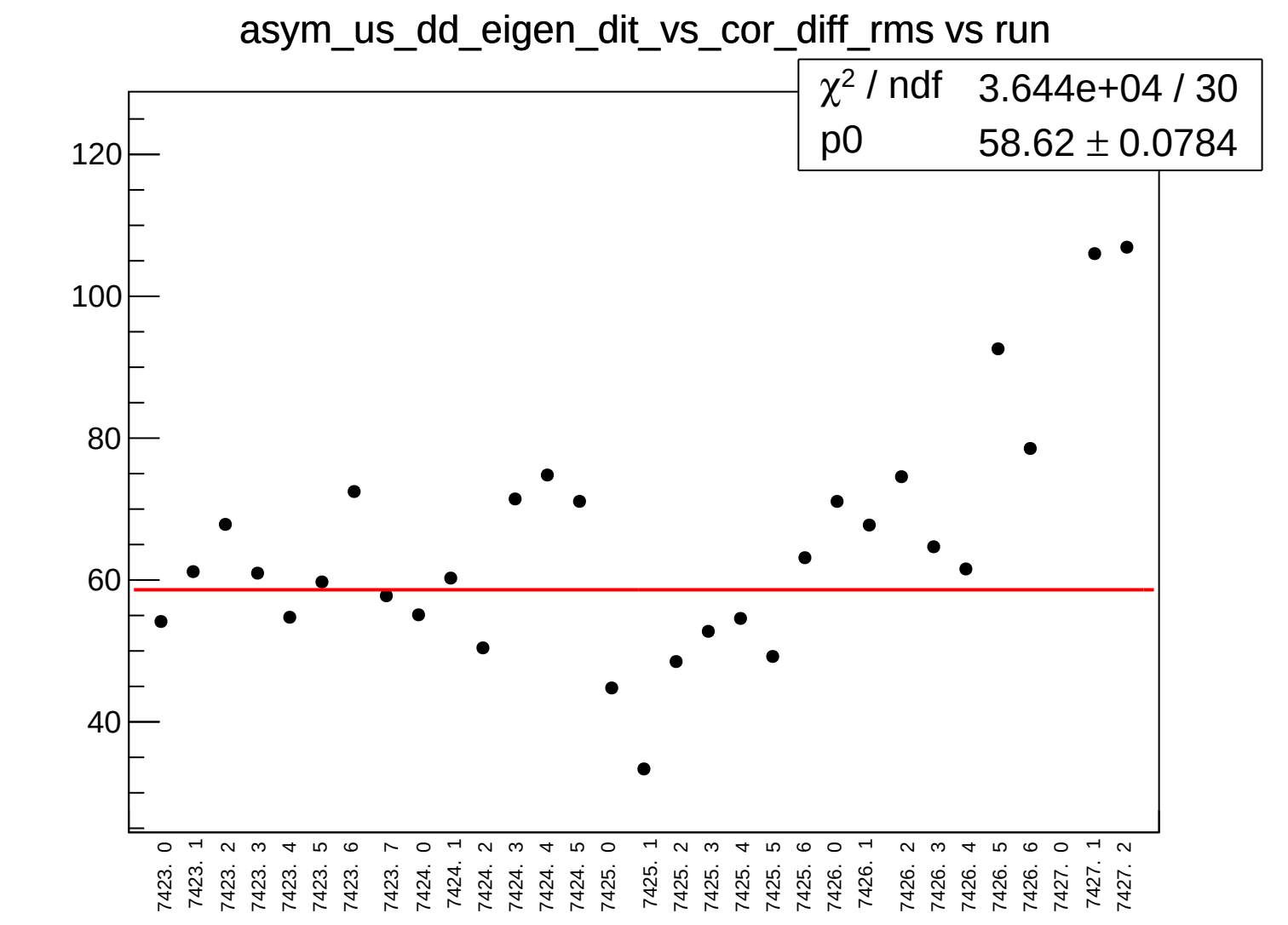

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1530 / 30
p0 0.002846 ± 3.693e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run

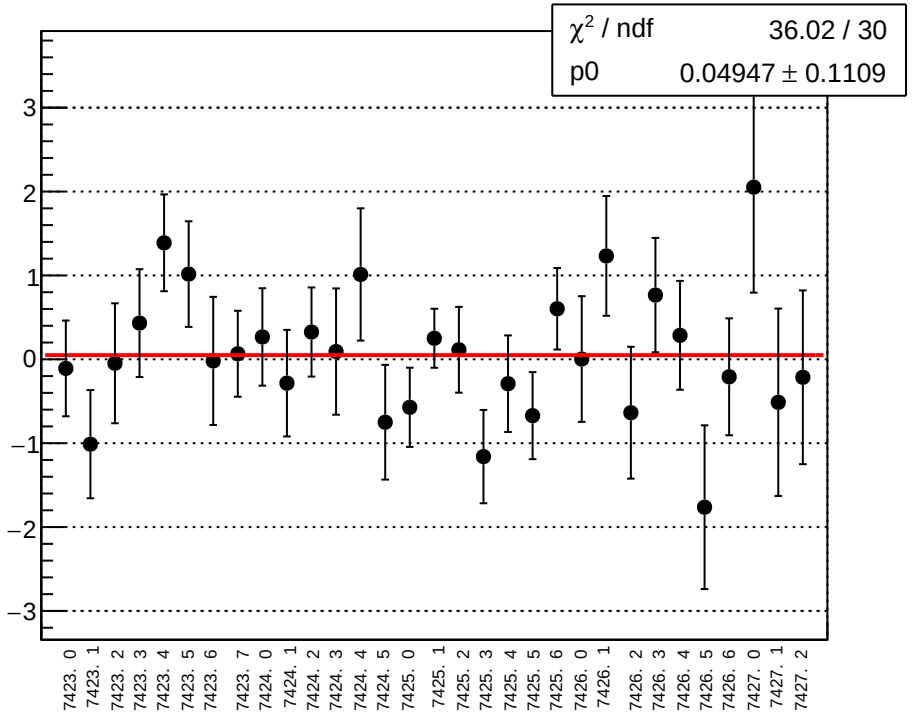


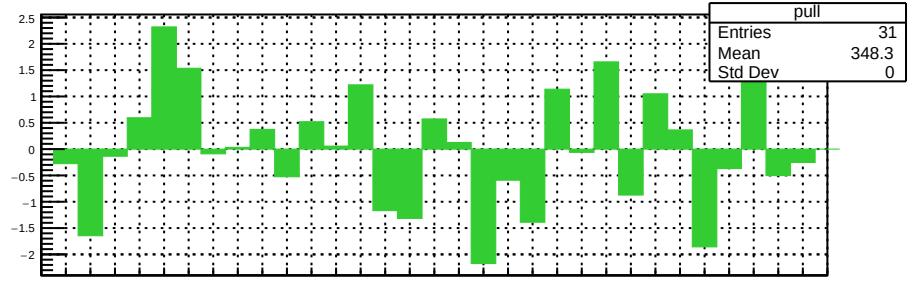


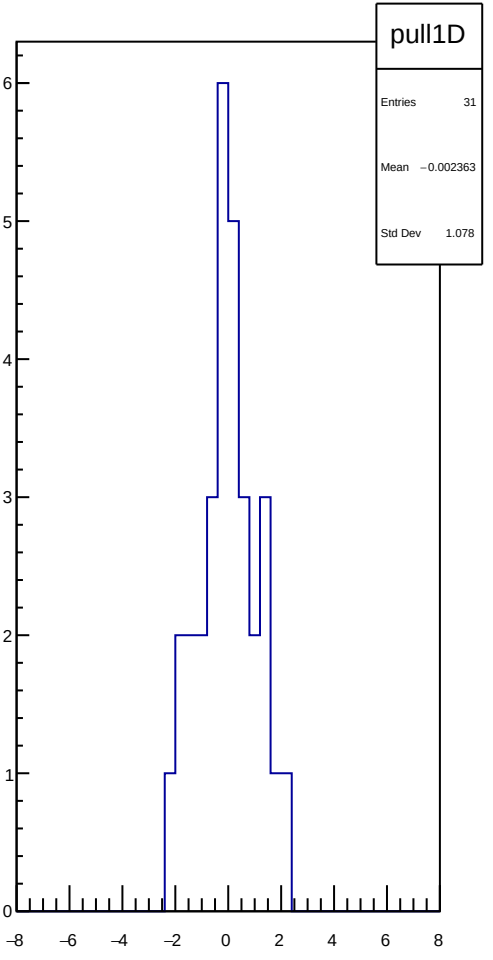


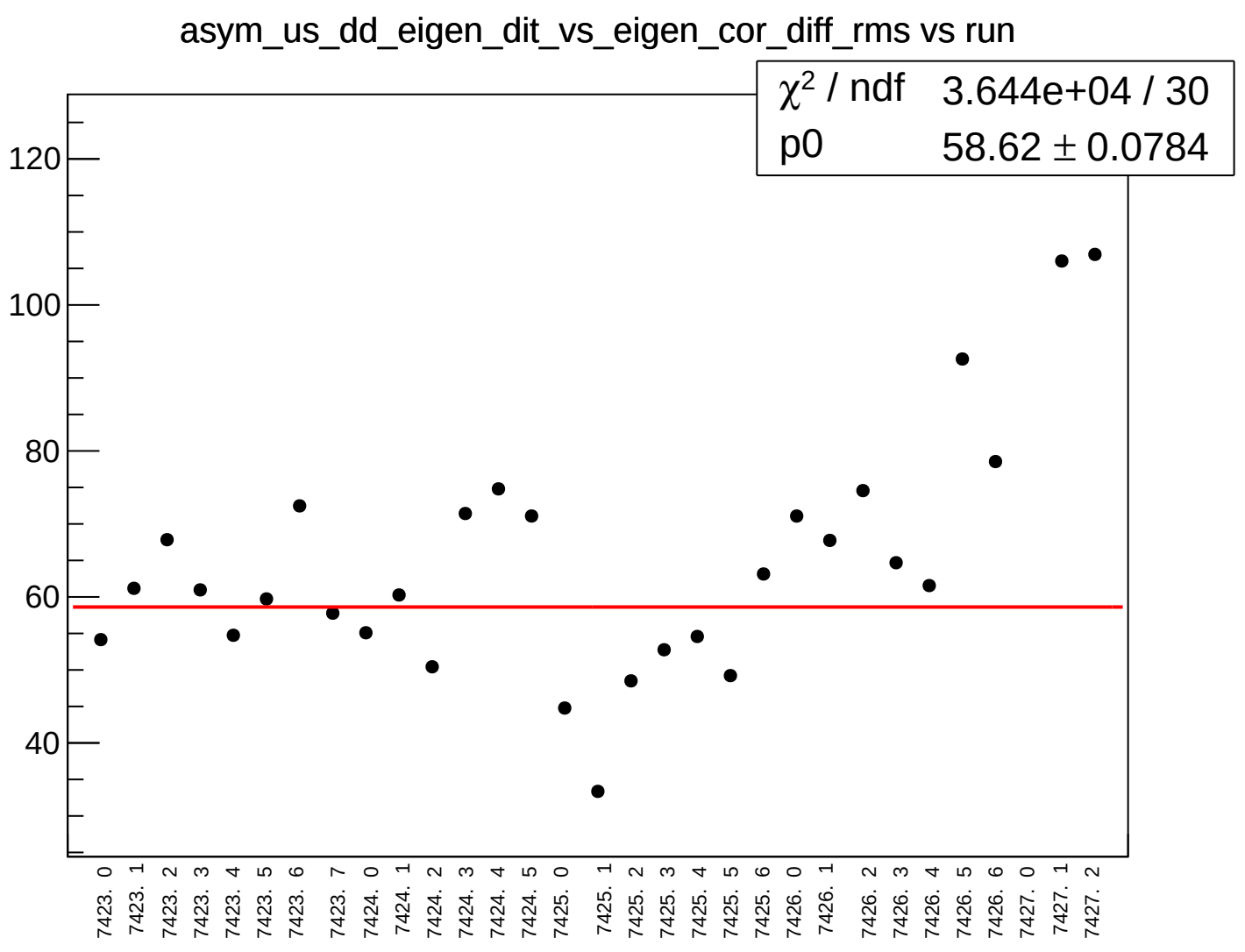

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.644e+04 / 30
p0 58.62 ± 0.0784
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

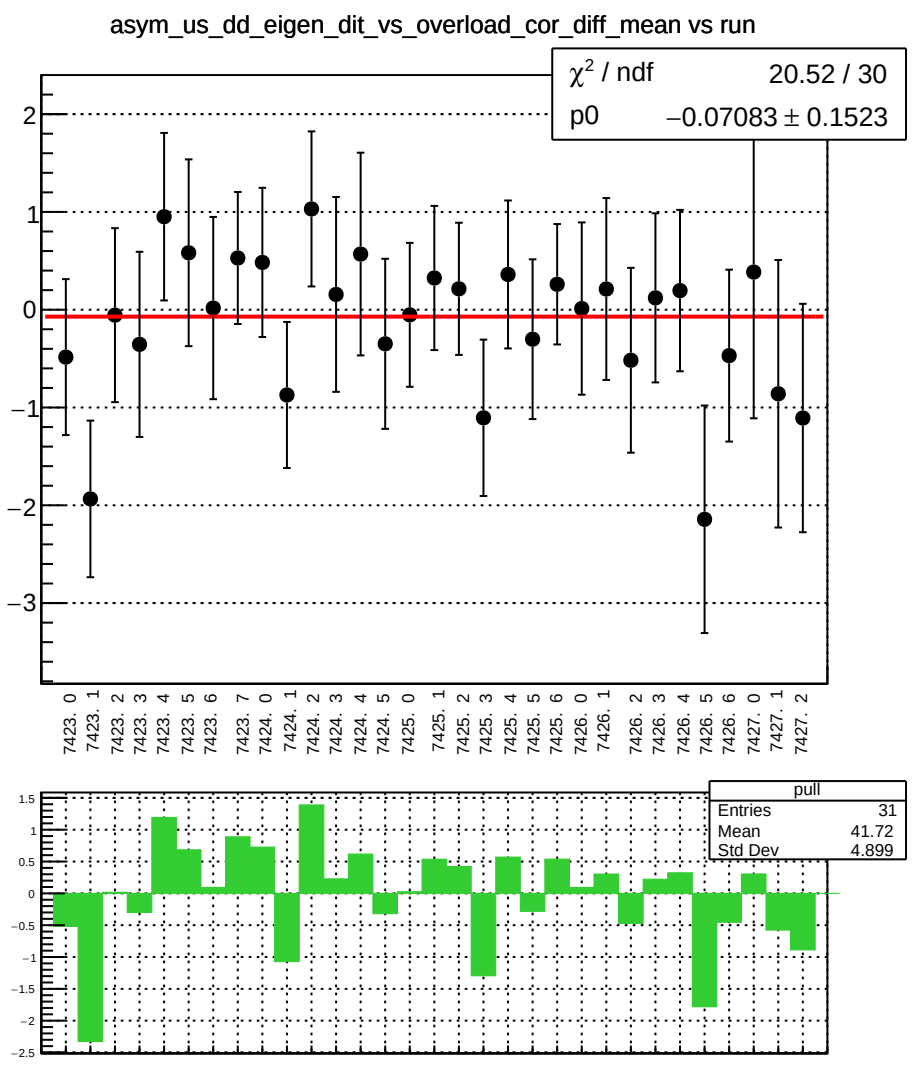
asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

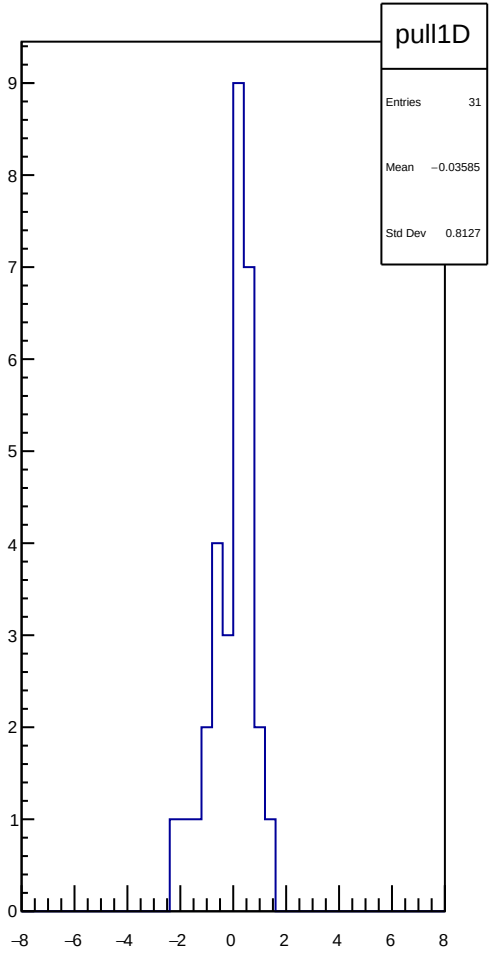


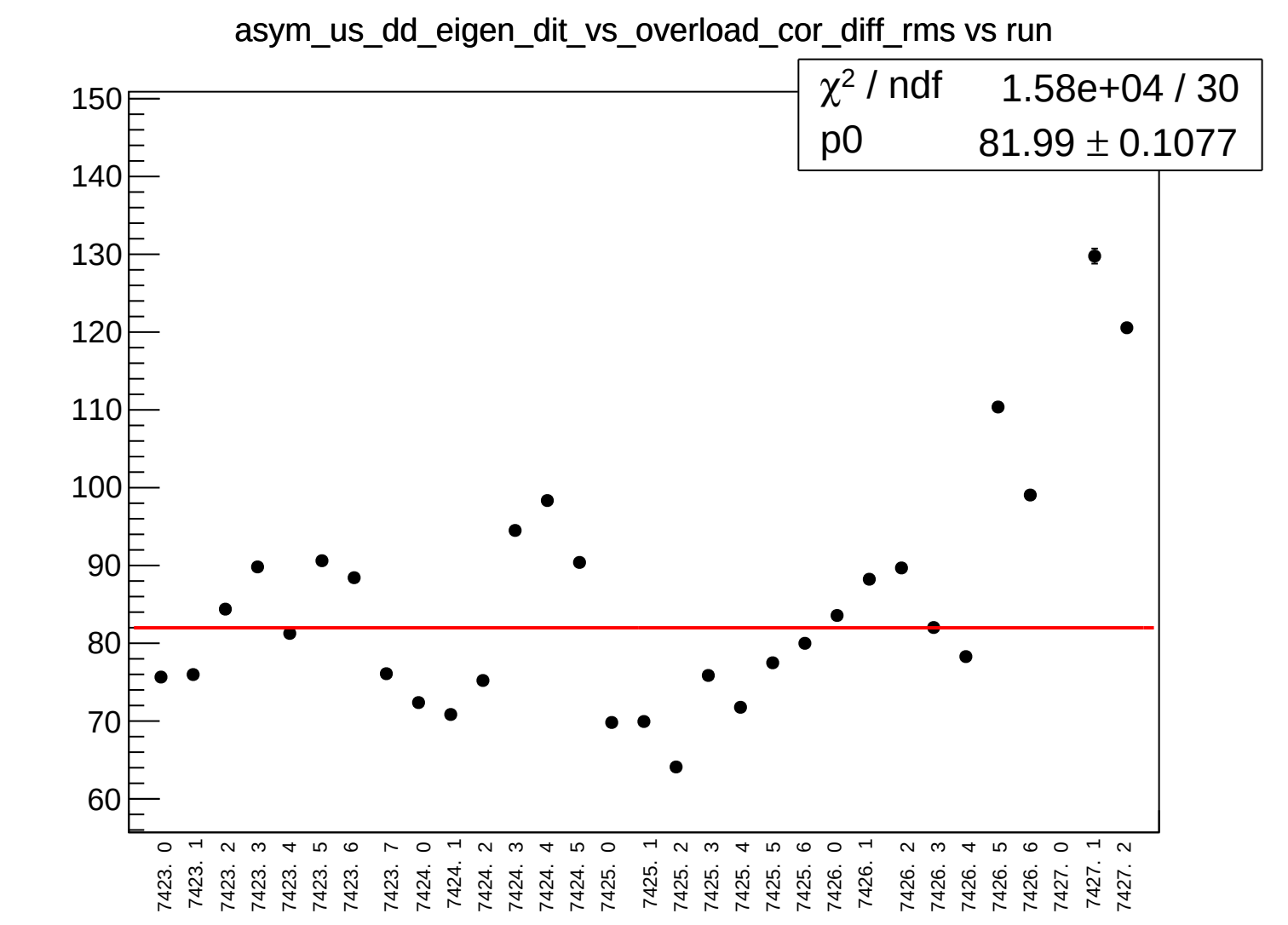


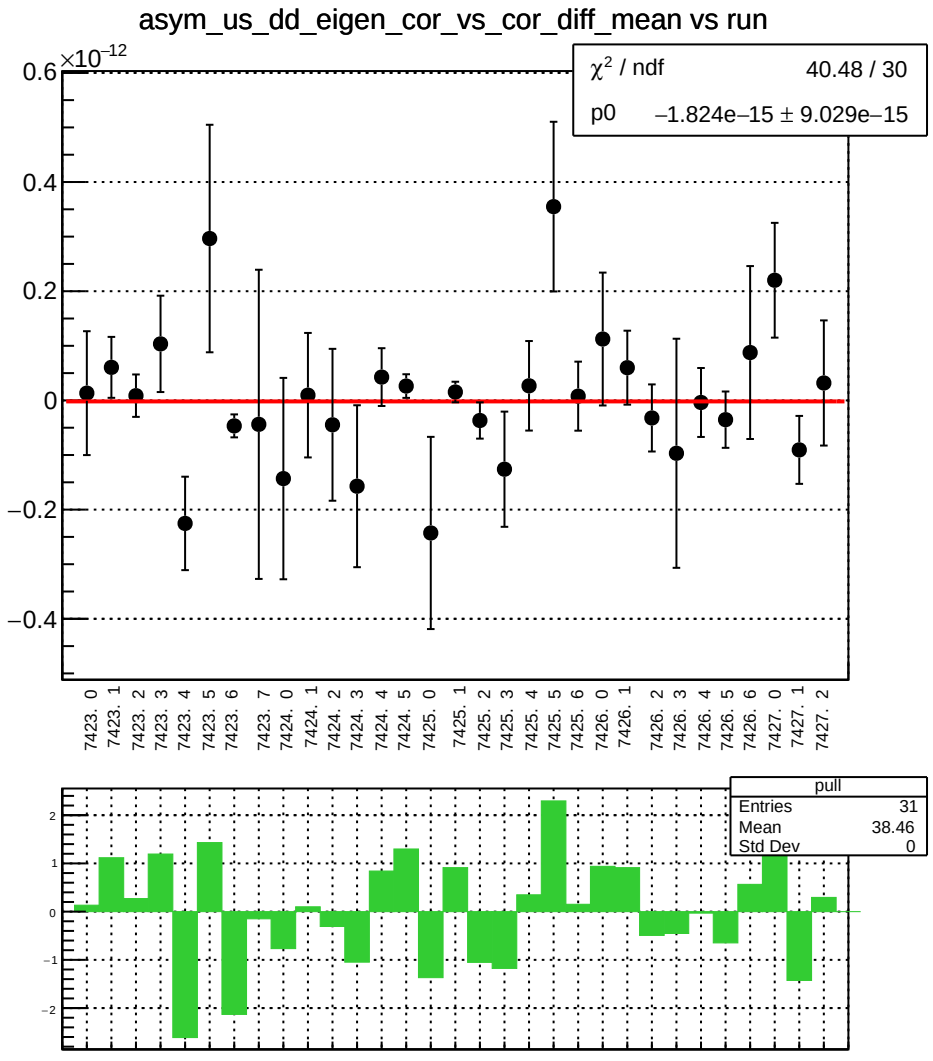


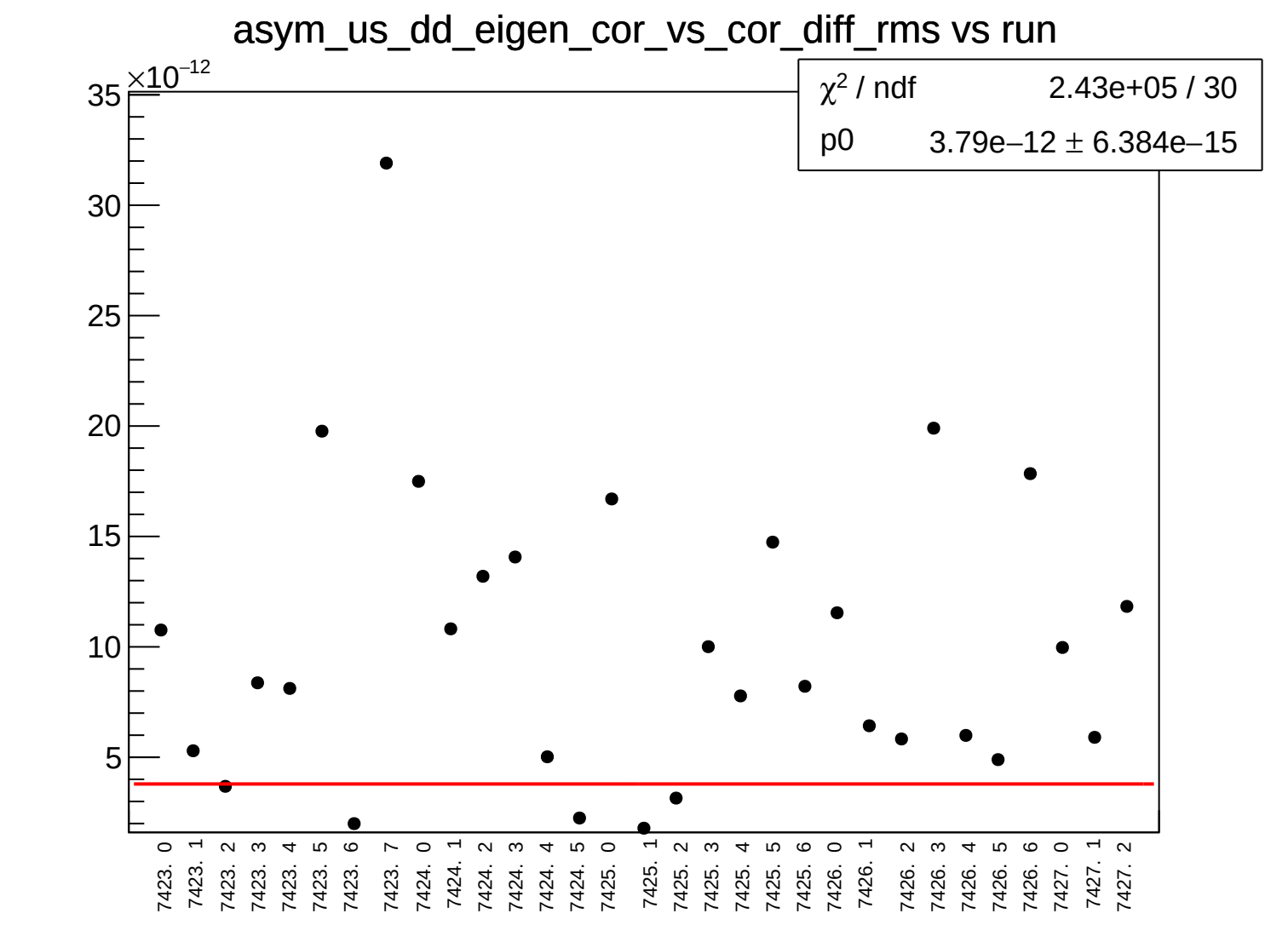

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.644e+04 / 30
p0 58.62 ± 0.0784
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

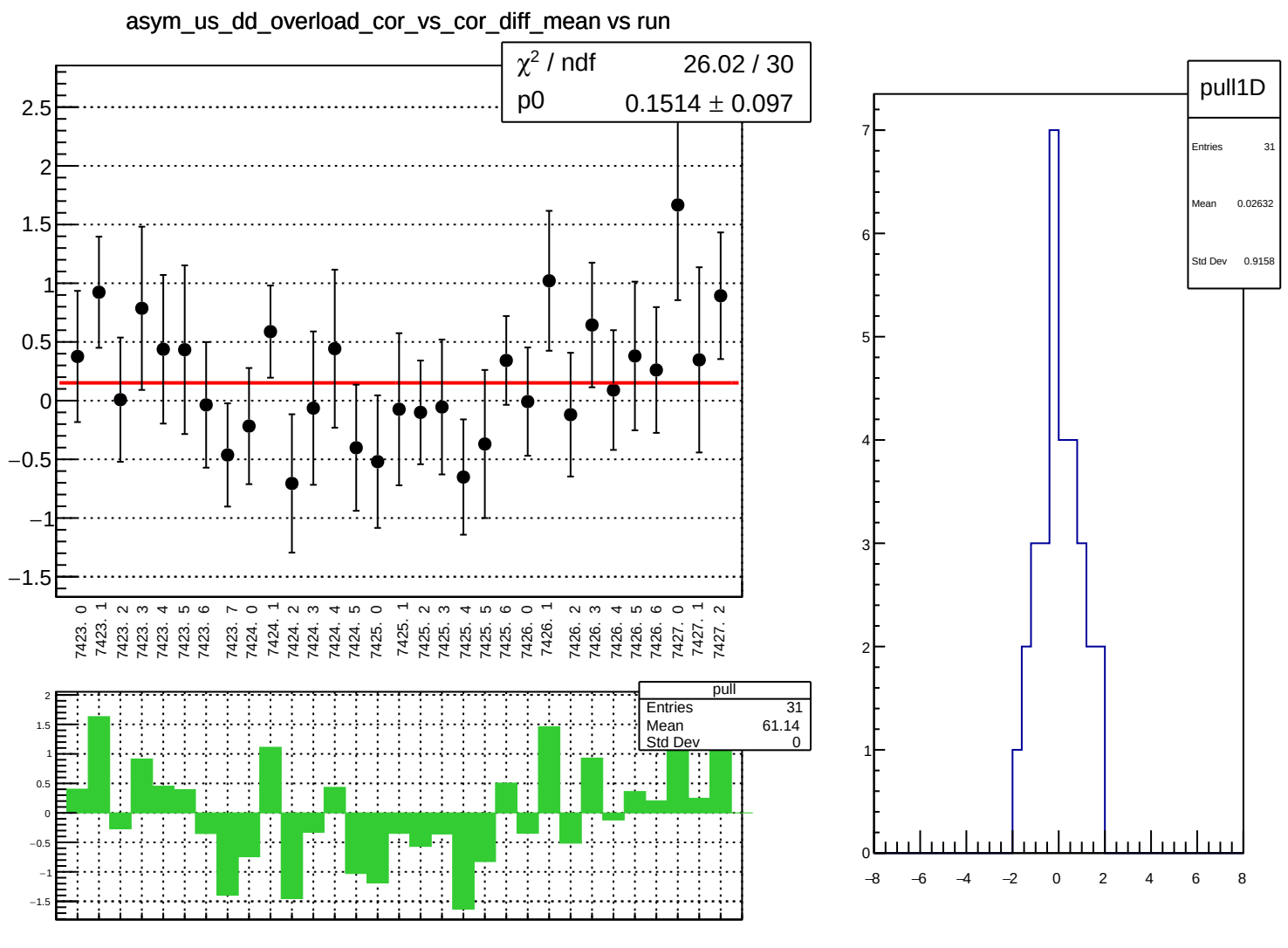

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 20.52 / 30
p0 −0.07083 ± 0.1523
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 41.72
Std Dev 4.899
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

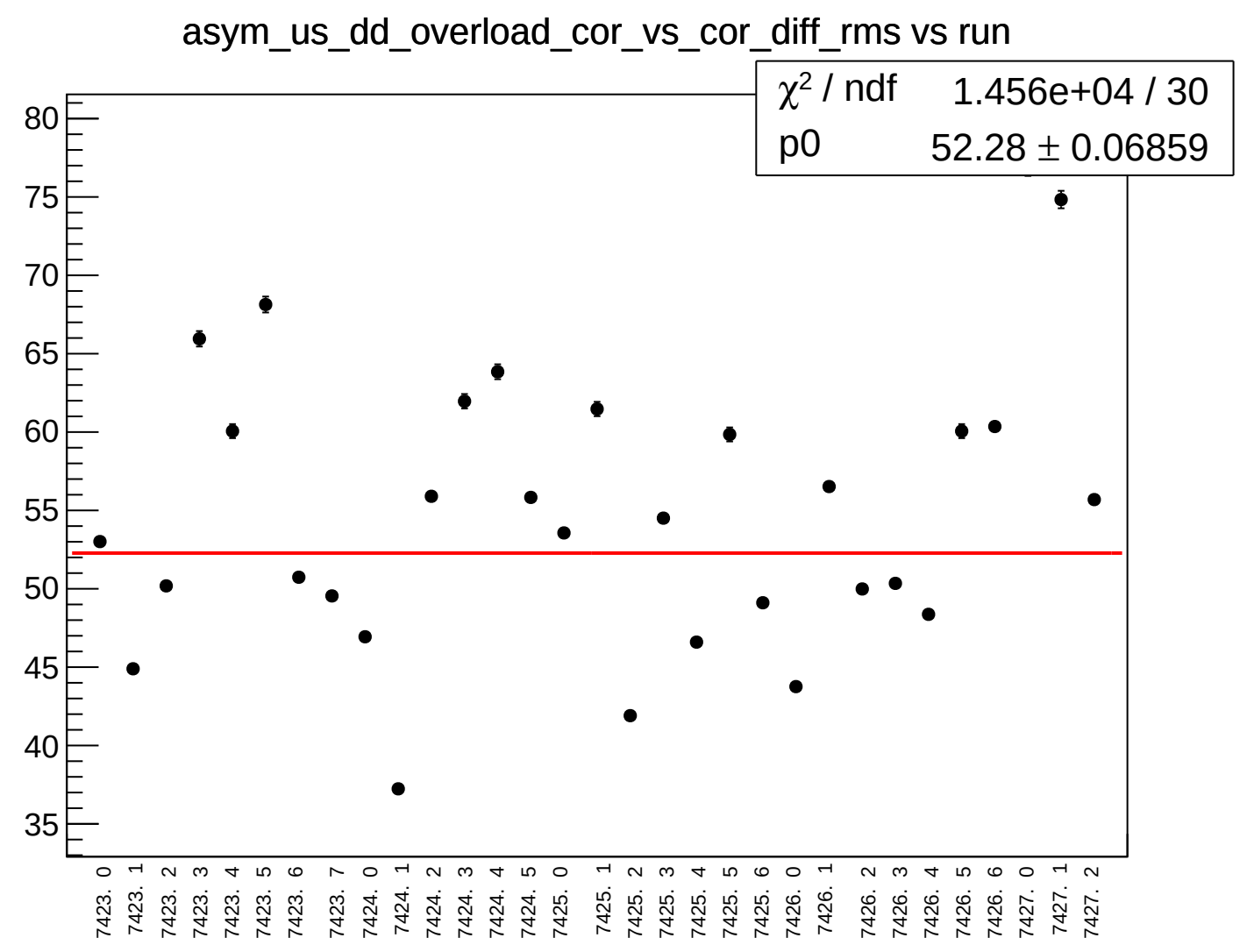

pull1D
Entries 31
Mean −0.03585
Std Dev 0.8127
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

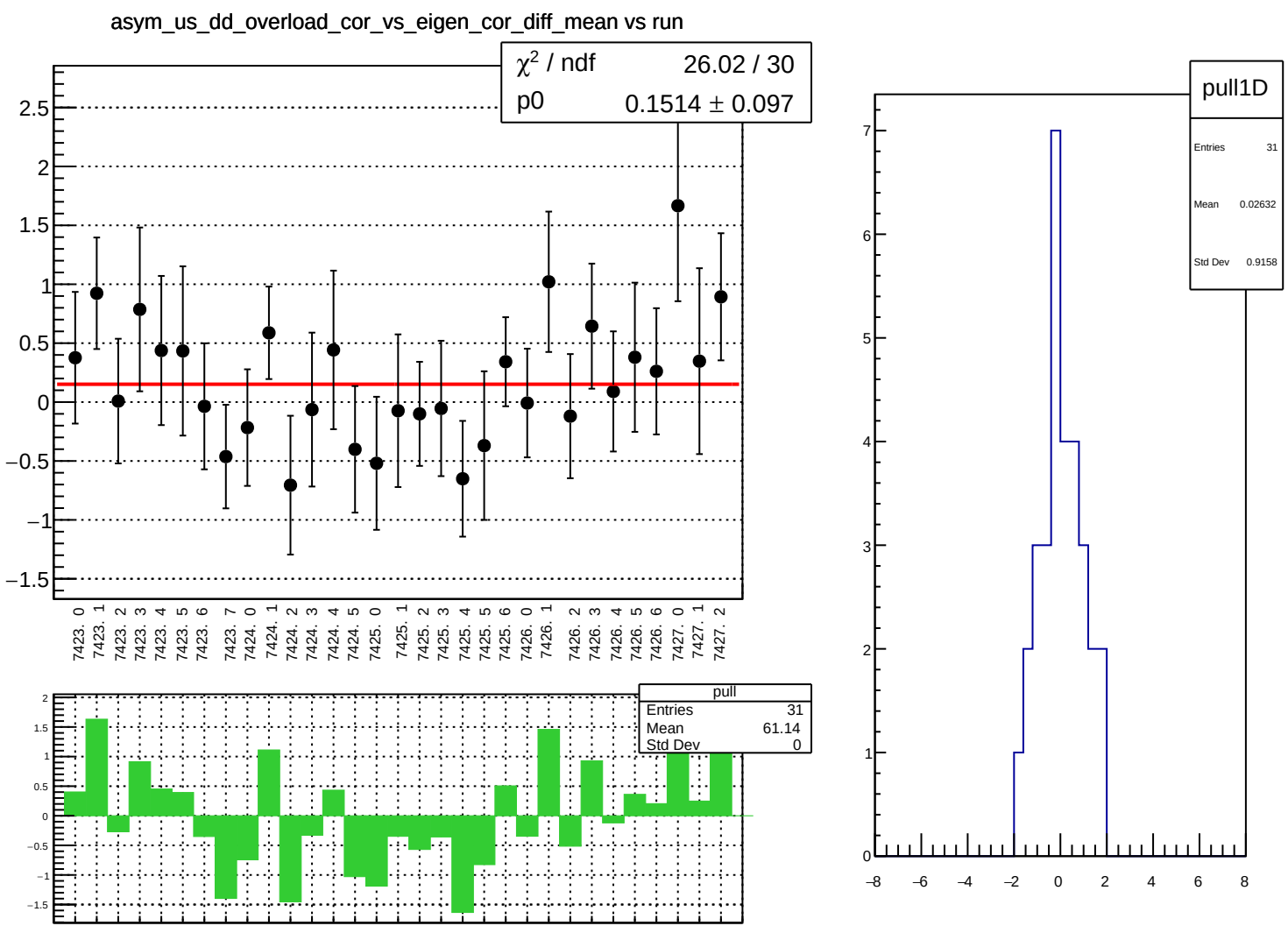

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.58e+04 / 30
p0 81.99 ± 0.1077
150
140
130
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

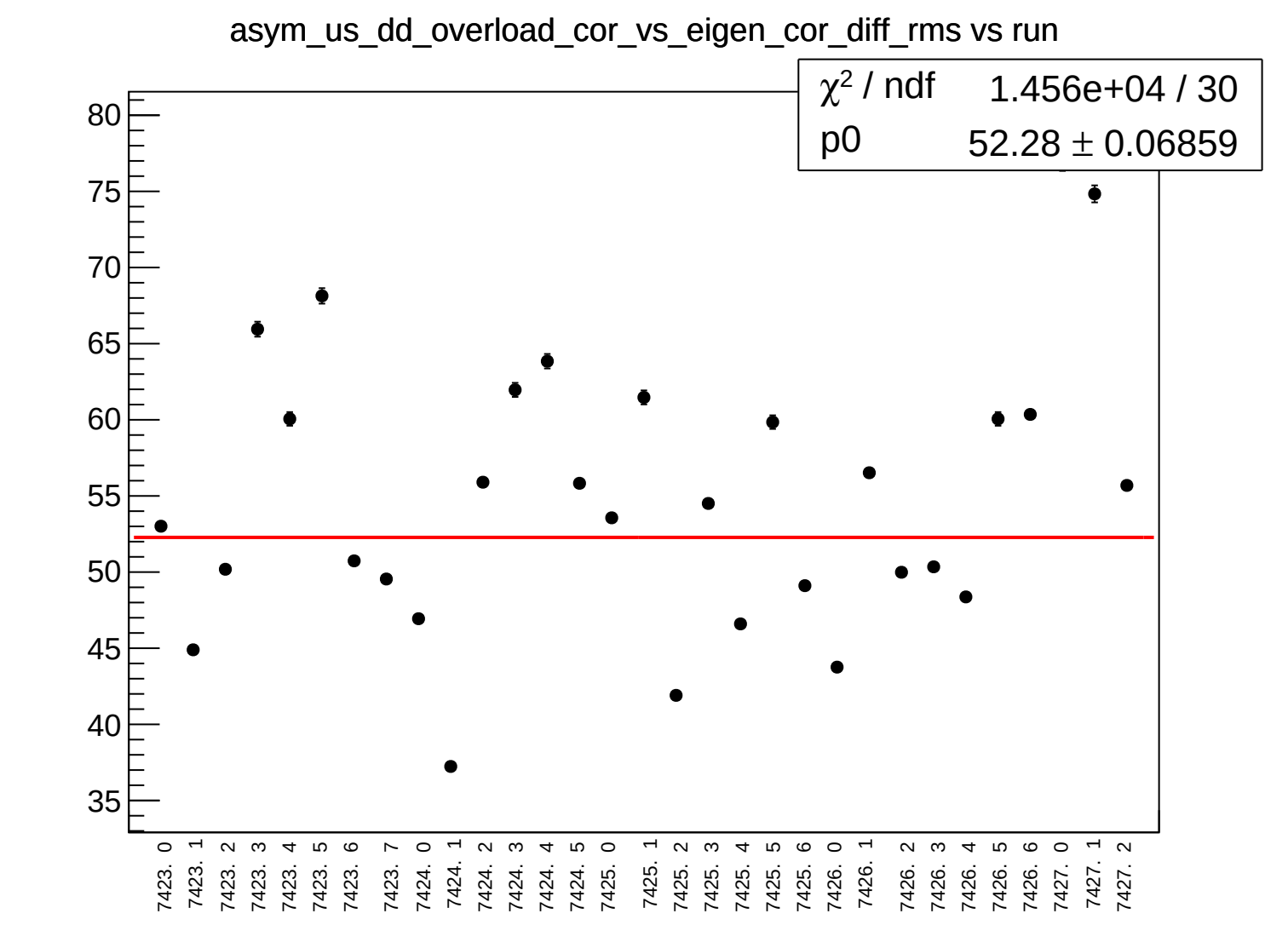

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.48 / 30
p0 −1.824e−15 ± 9.029e−15
0.6
0.4
0.2
0
−0.2
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 38.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.04051
Std Dev 1.142
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

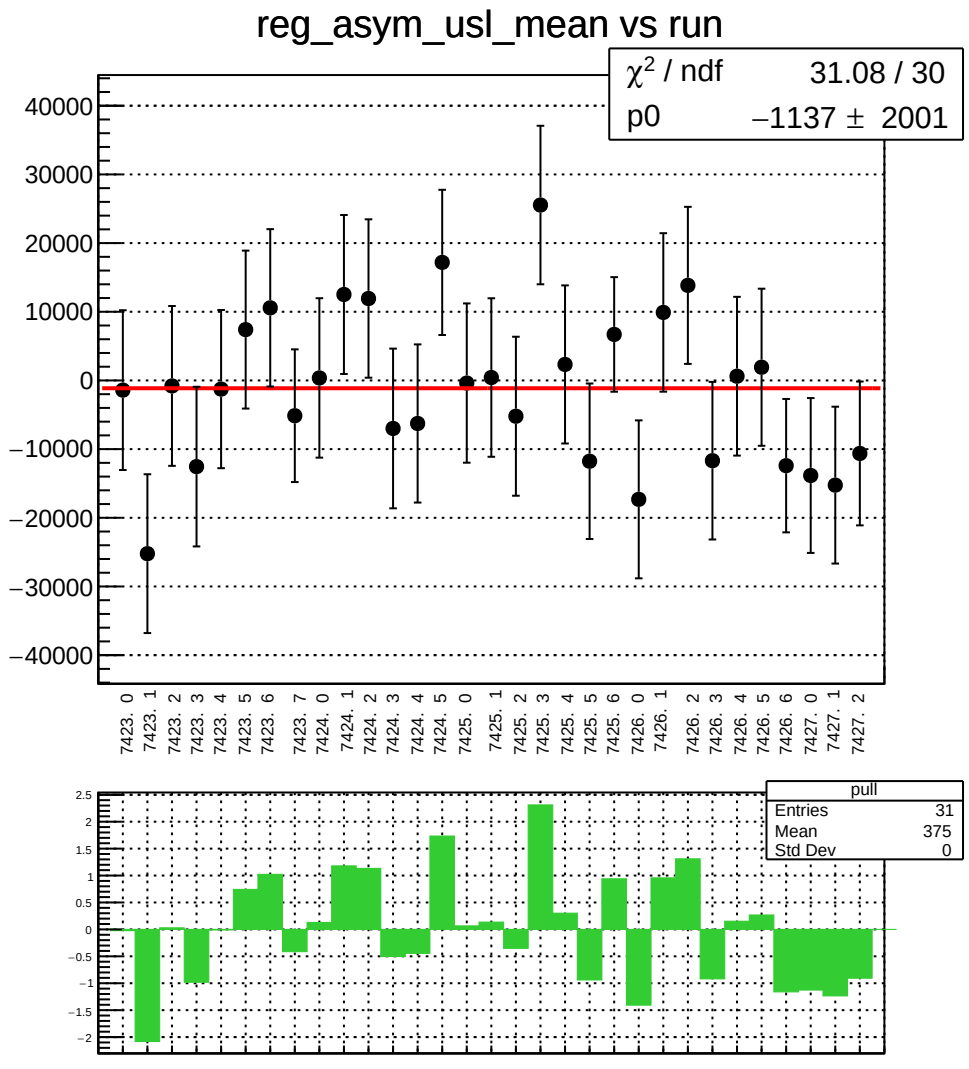

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.43e+05 / 30
p0 3.79e−12 ± 6.384e−15
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

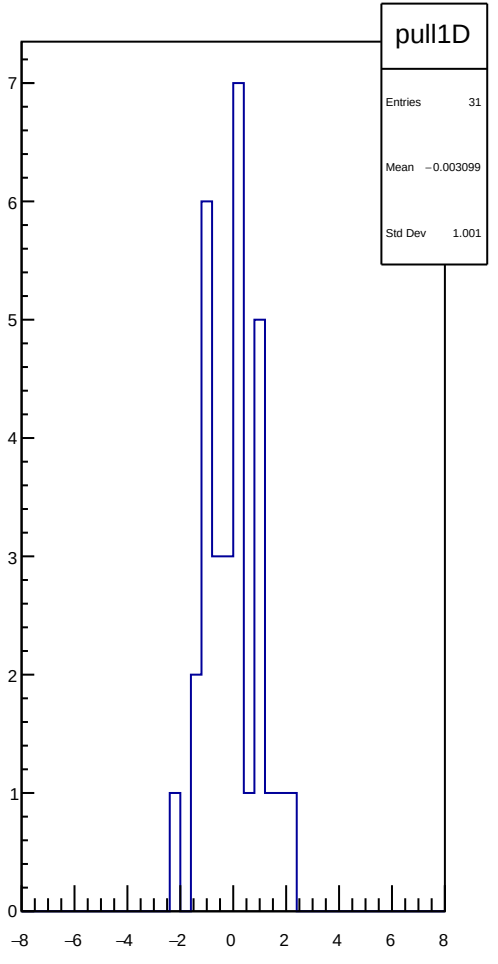

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 26.02 / 30
p0 0.1514 ± 0.097
pull
Entries 31
Mean 61.14
Std Dev 0
pull1D
Entries 31
Mean 0.02632
Std Dev 0.9158

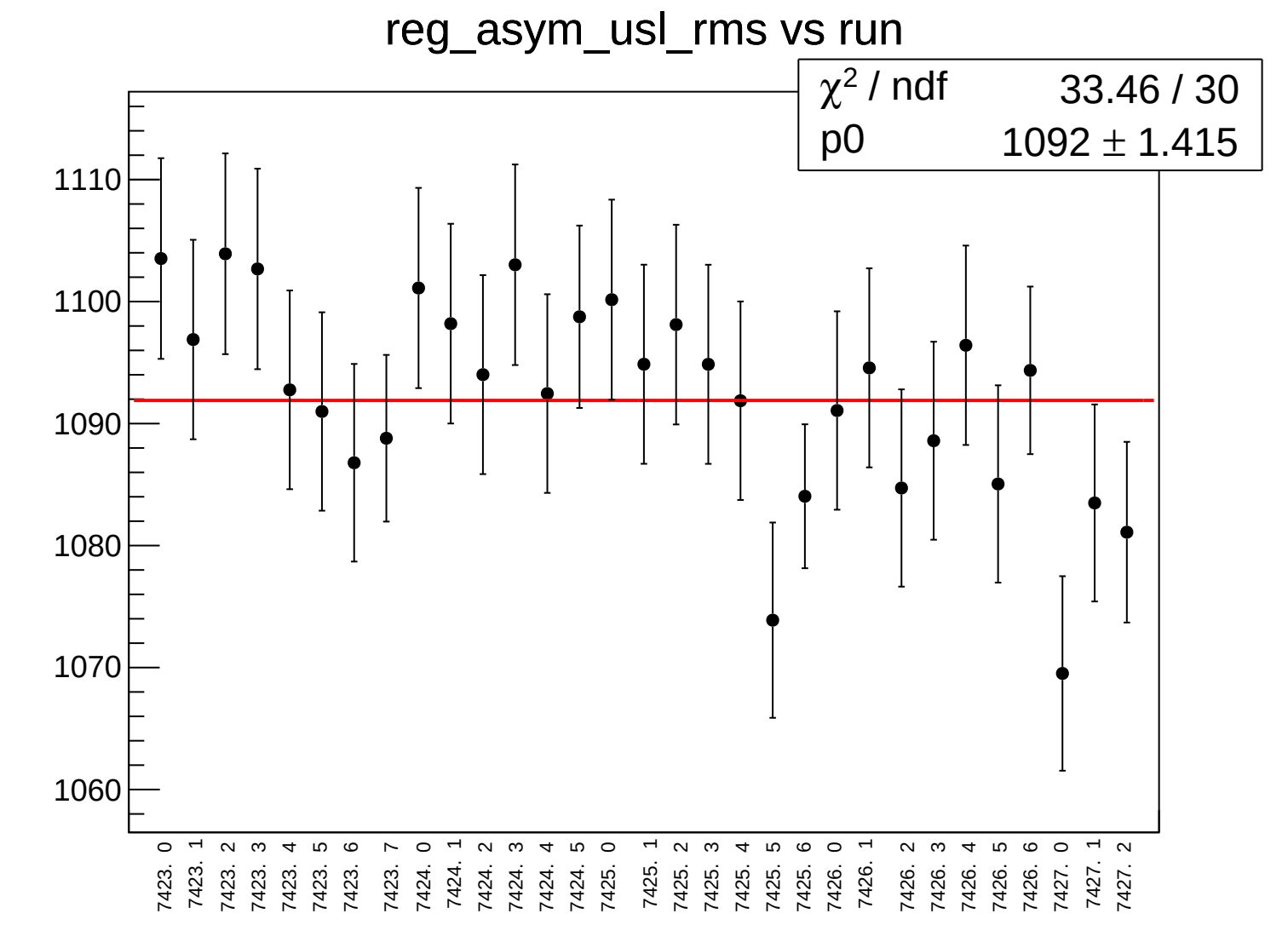

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.456e+04 / 30
p0 52.28 ± 0.06859
80
75
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

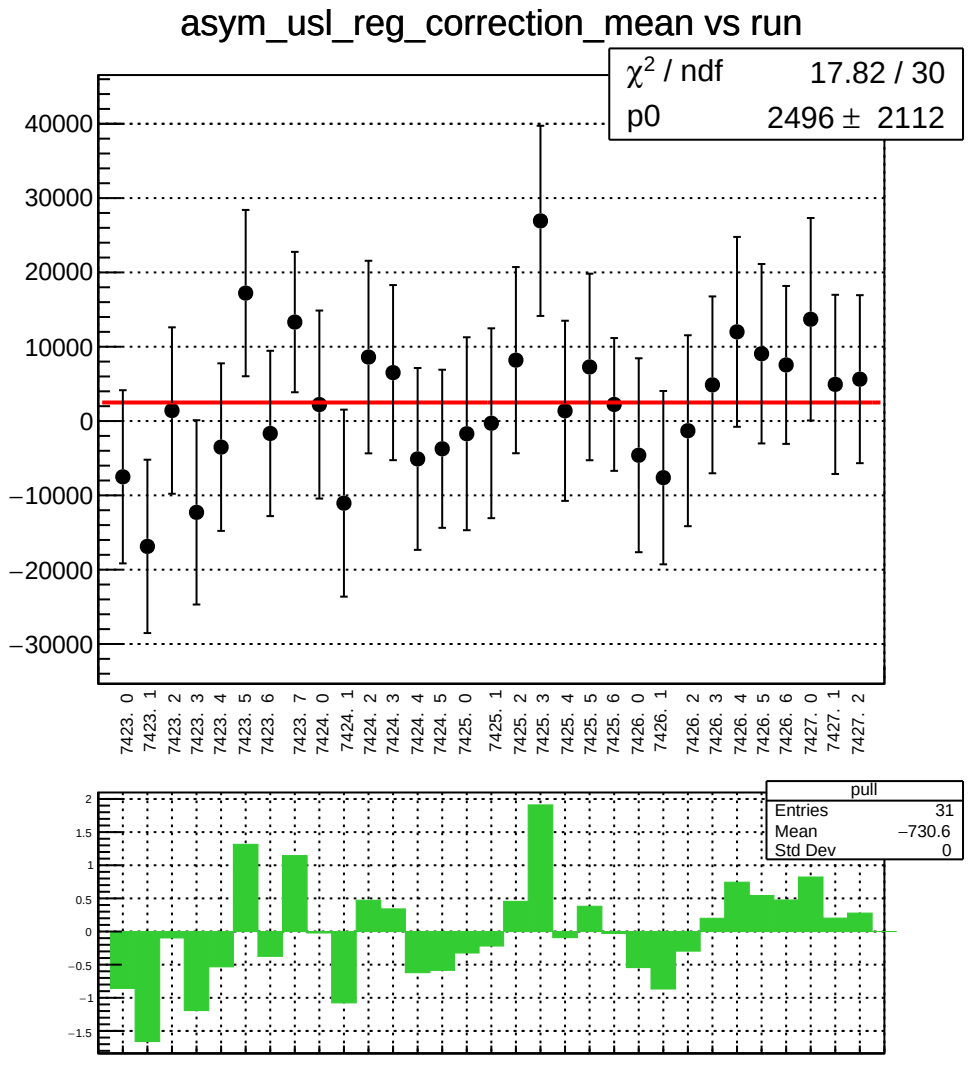

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.02 / 30
p0 0.1514 ± 0.097
pull
Entries 31
Mean 61.14
Std Dev 0
pull1D
Entries 31
Mean 0.02632
Std Dev 0.9158

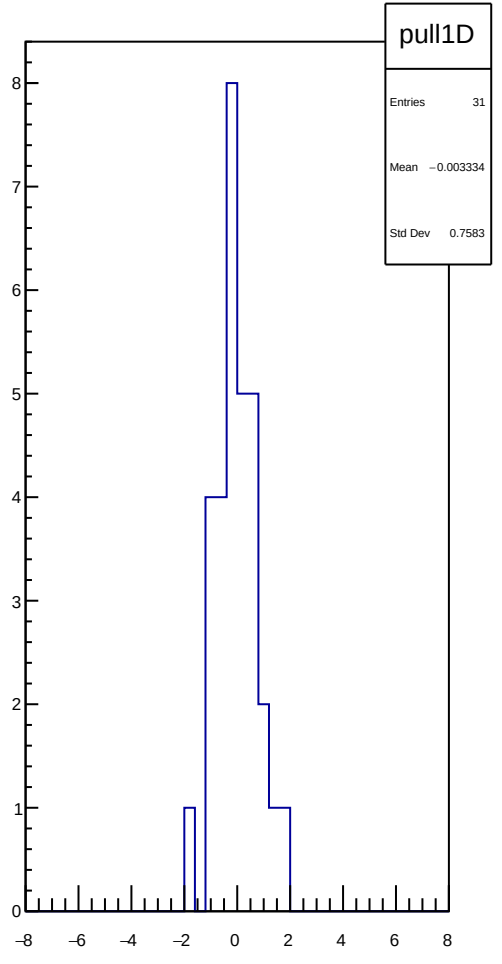

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.456e+04 / 30
p0 52.28 ± 0.06859
80
75
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

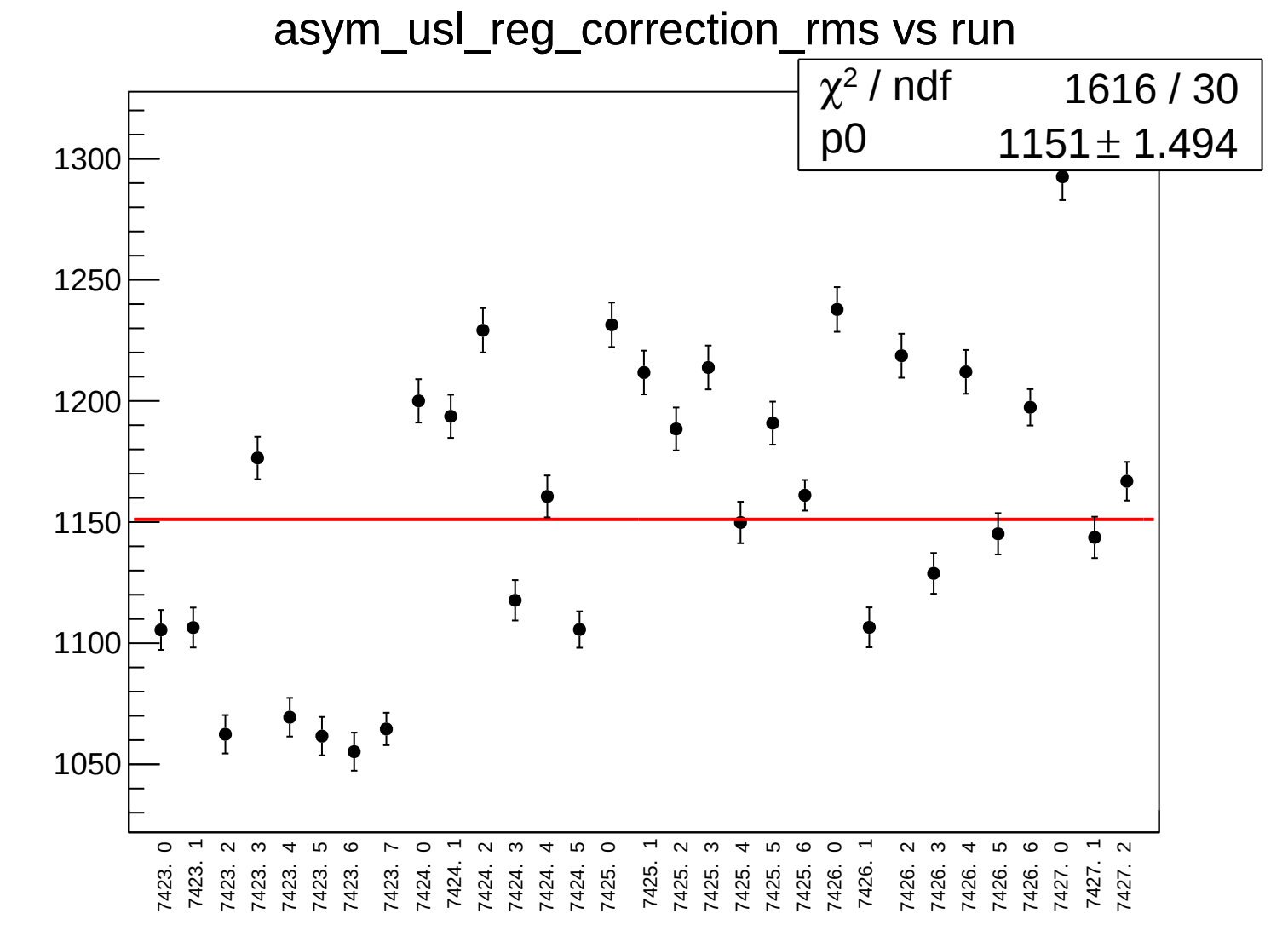

reg_asym_usl_mean vs run
χ² / ndf 31.08 / 30
p0 −1137 ± 2001
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 375
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

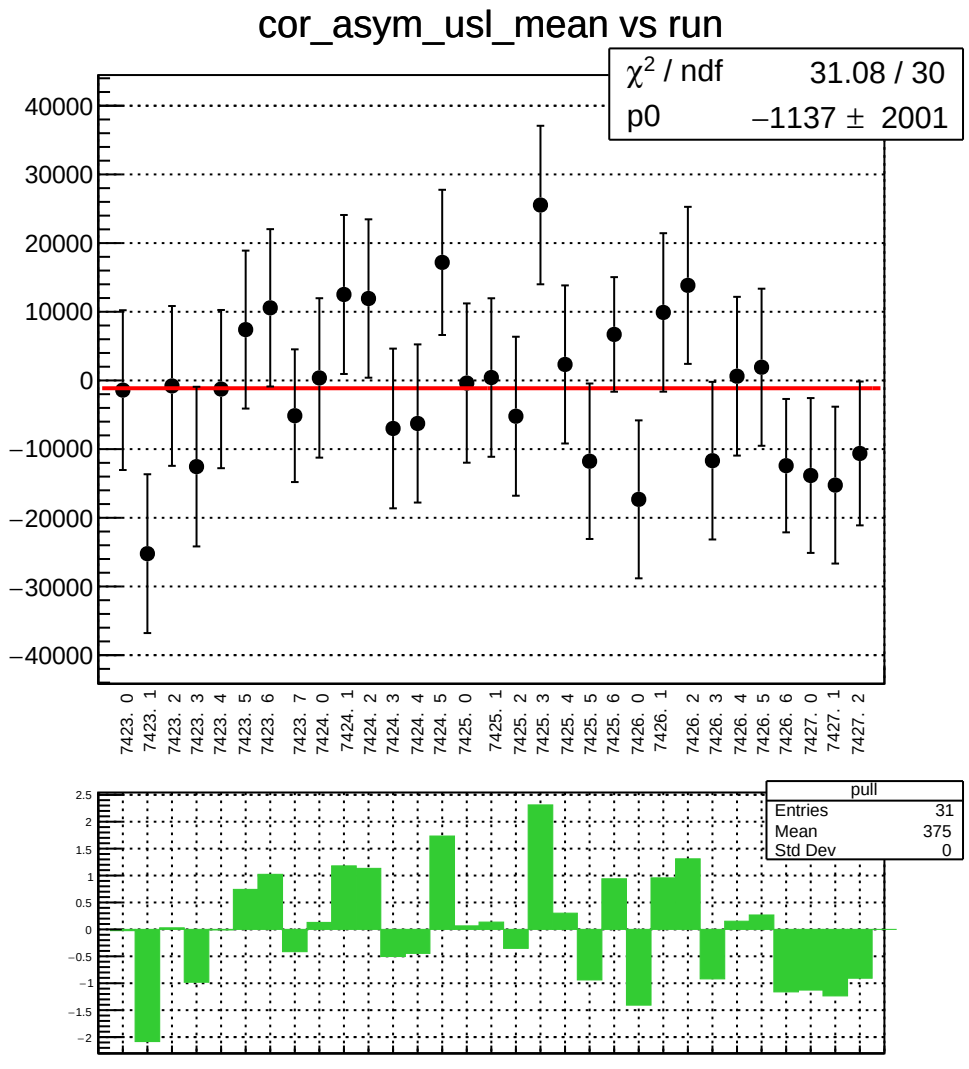

pull1D
Entries 31
Mean −0.003099
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

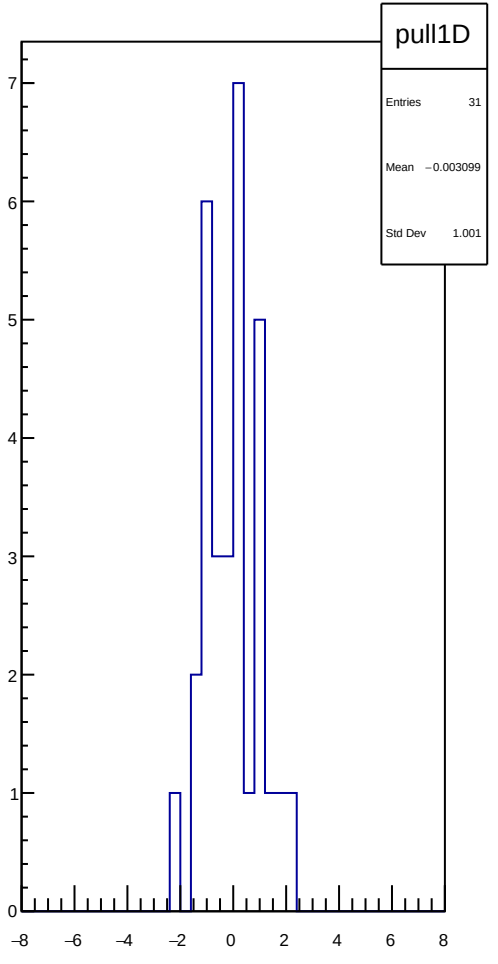

reg_asym_usl_rms vs run
χ² / ndf 33.46 / 30
p0 1092 ± 1.415
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

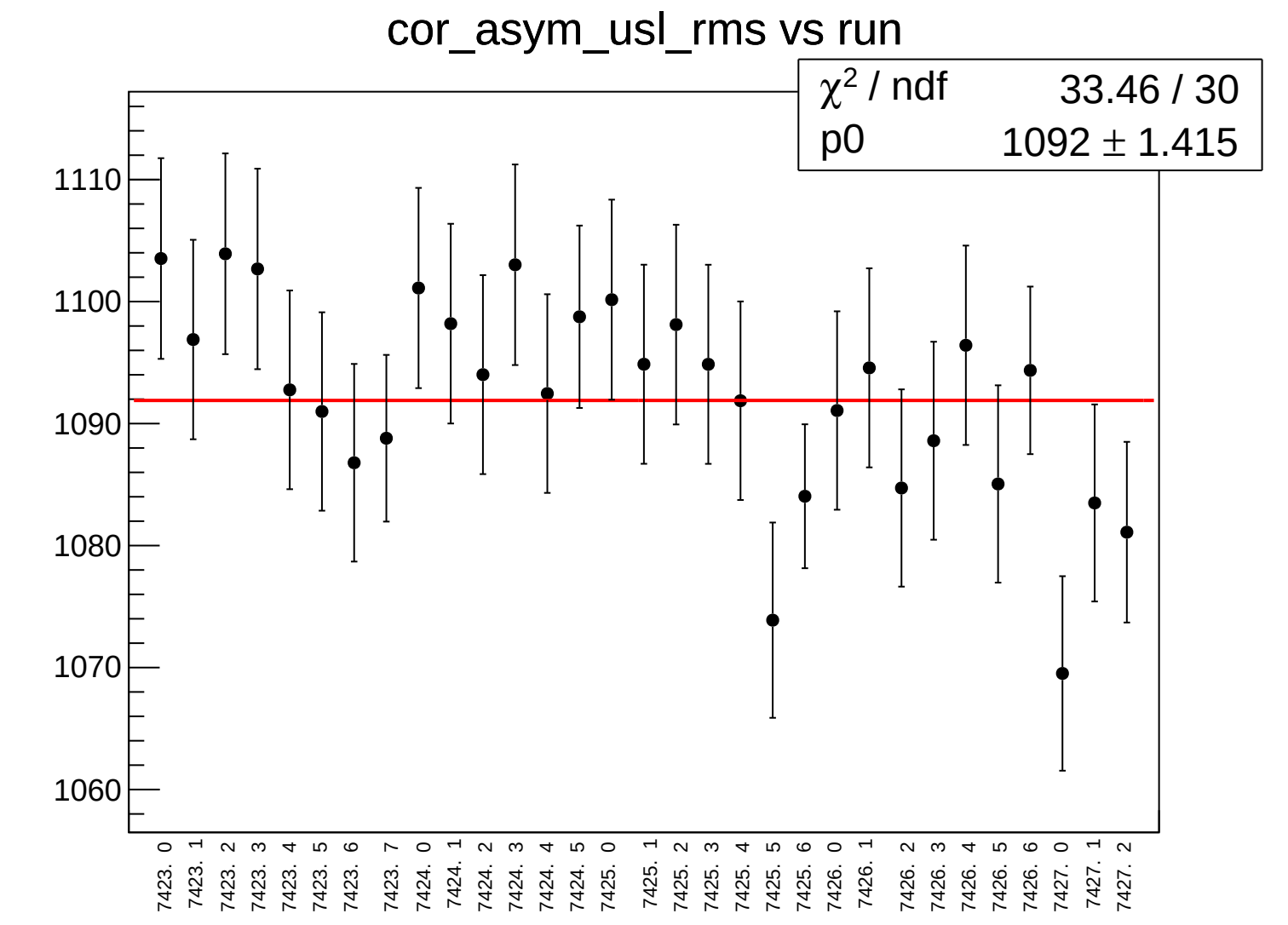

asym_usl_reg_correction_mean vs run
χ² / ndf 17.82 / 30
p0 2496 ± 2112
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −730.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

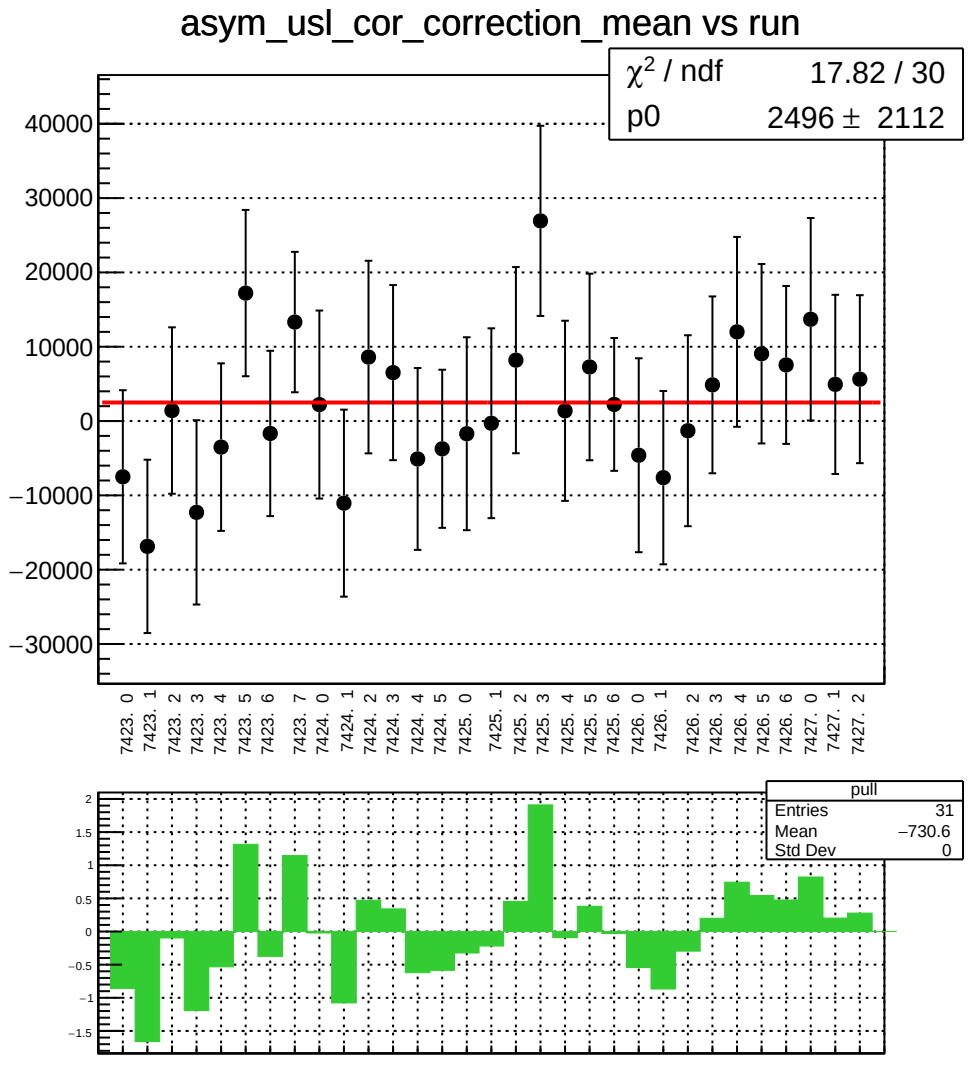

pull1D
Entries 31
Mean −0.003334
Std Dev 0.7583
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

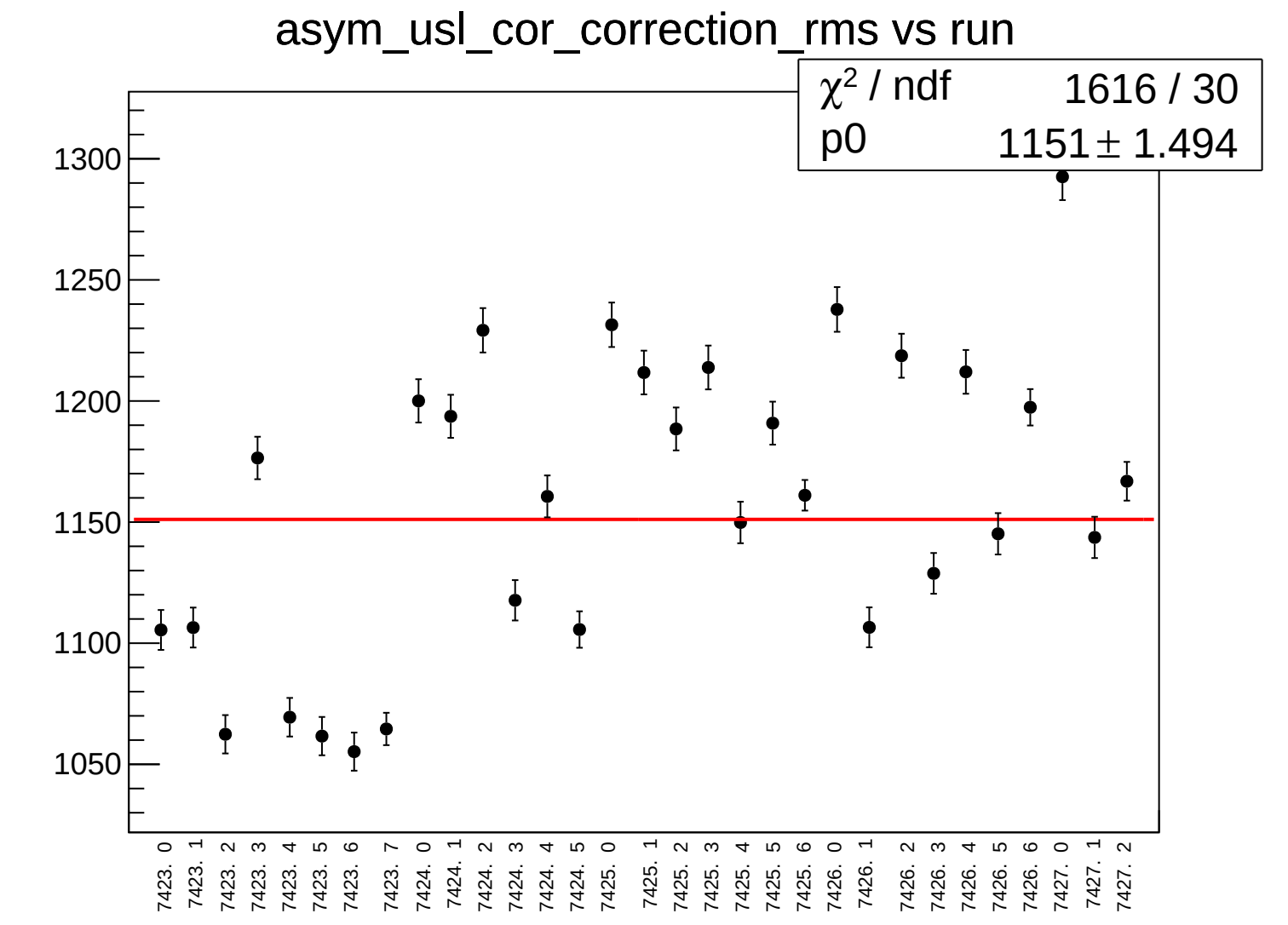

asym_usl_reg_correction_rms vs run
χ² / ndf 1616 / 30
p0 1151 ± 1.494
1300
1250
1200
1150
1100
1050
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

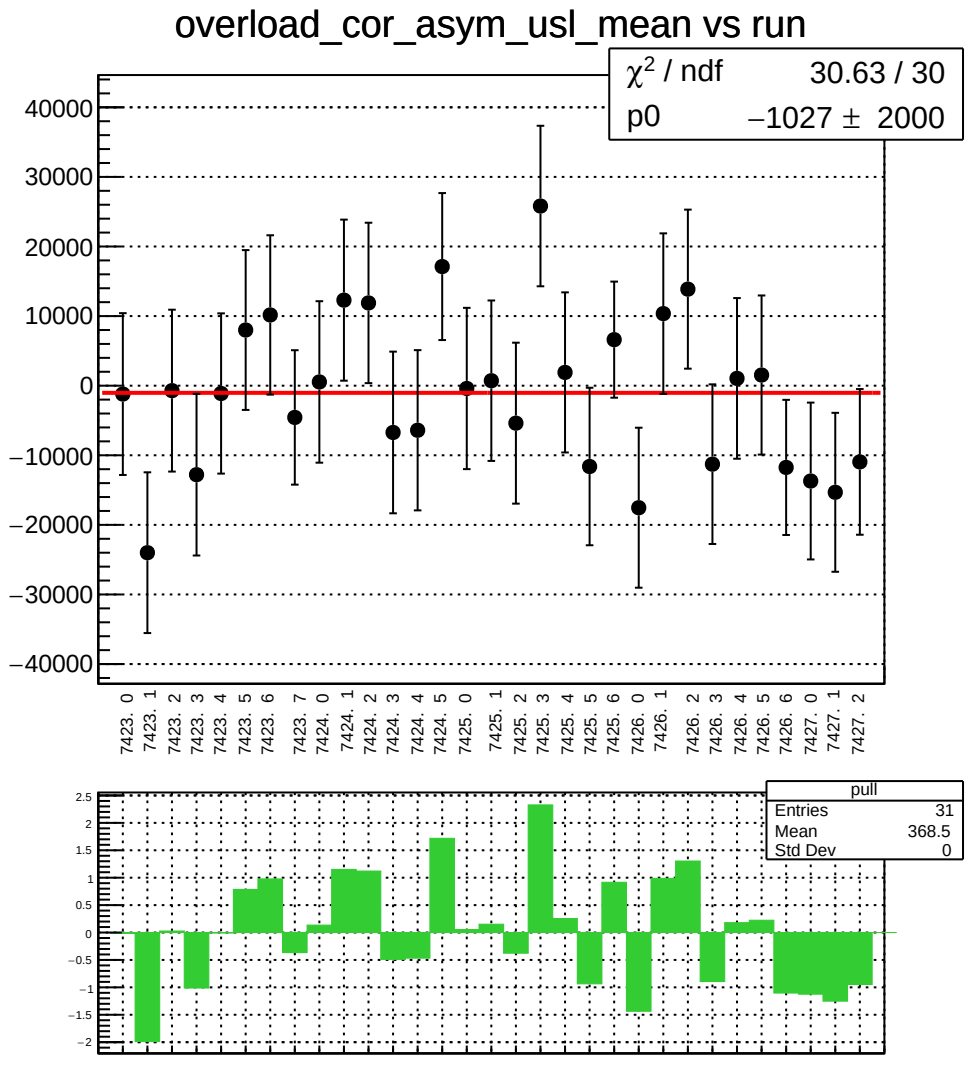

cor_asym_usl_mean vs run
χ² / ndf 31.08 / 30
p0 −1137 ± 2001
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 375
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

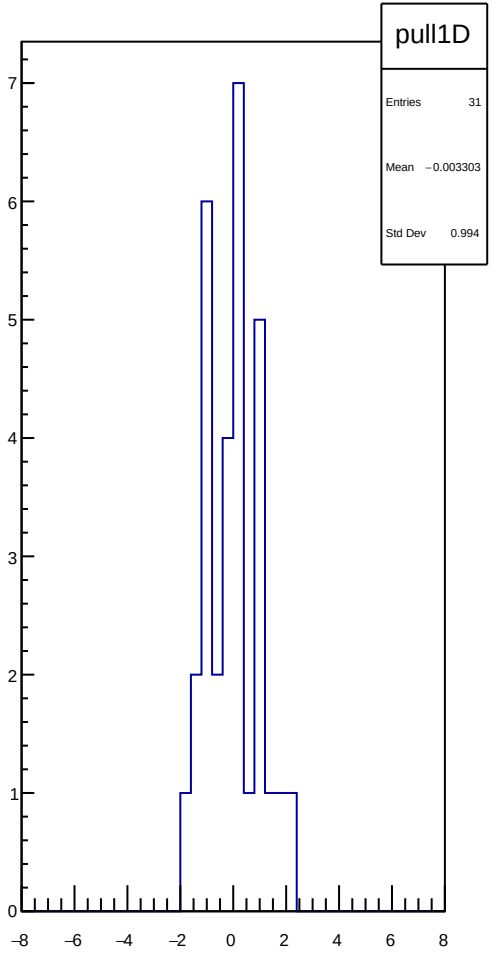

pull1D
Entries 31
Mean −0.003099
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

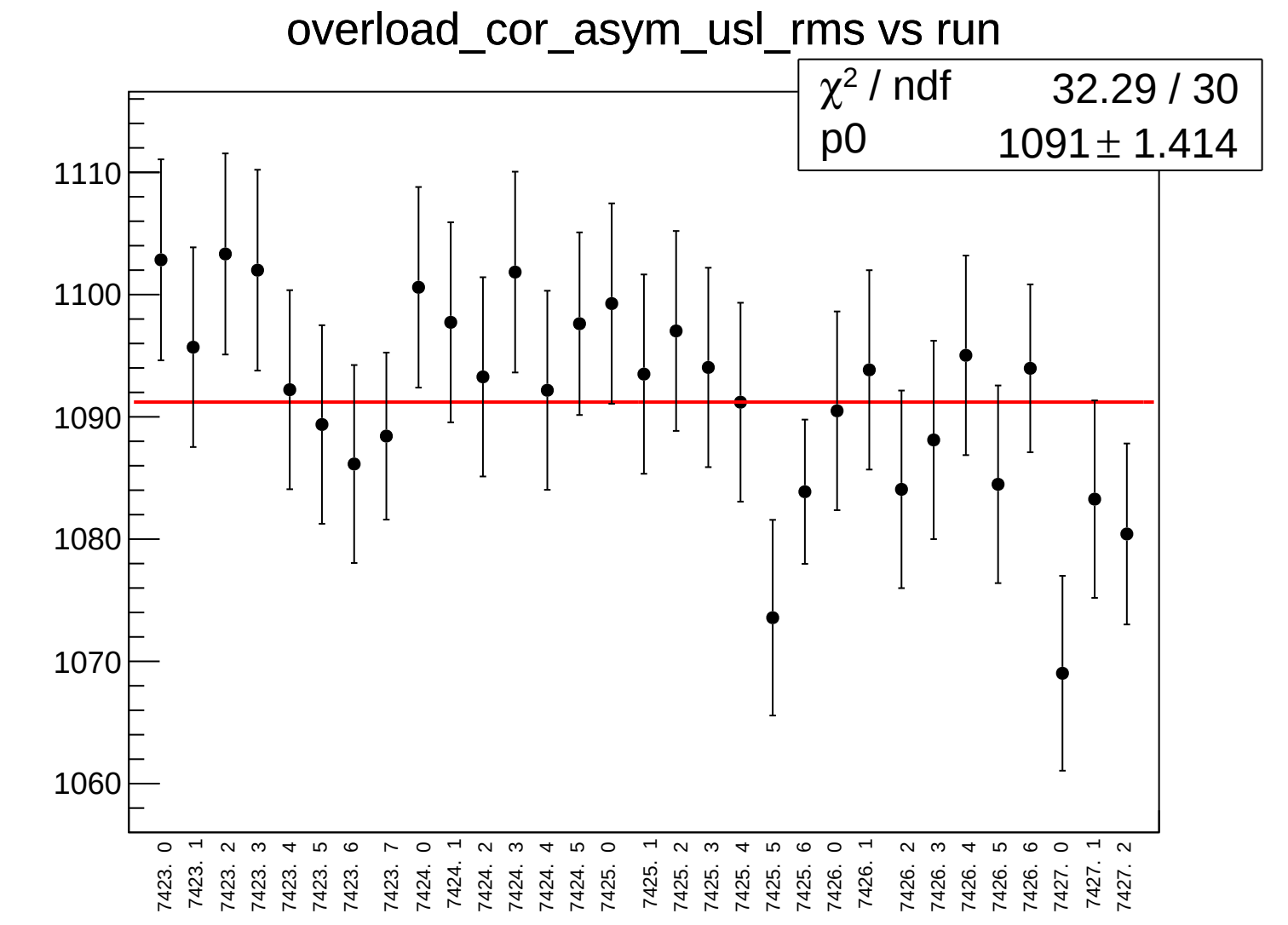

cor_asym_usl_rms vs run
χ² / ndf 33.46 / 30
p0 1092 ± 1.415
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_usl_cor_correction_mean vs run
χ² / ndf 17.82 / 30
p0 2496 ± 2112
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −730.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.003334
Std Dev 0.7583
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_cor_correction_rms vs run
χ² / ndf 1616 / 30
p0 1151 ± 1.494
1300
1250
1200
1150
1100
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


overload_cor_asym_usl_mean vs run
χ² / ndf 30.63 / 30
p0 −1027 ± 2000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 368.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.003303
Std Dev 0.994
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_usl_rms vs run
χ² / ndf 32.29 / 30
p0 1091 ± 1.414
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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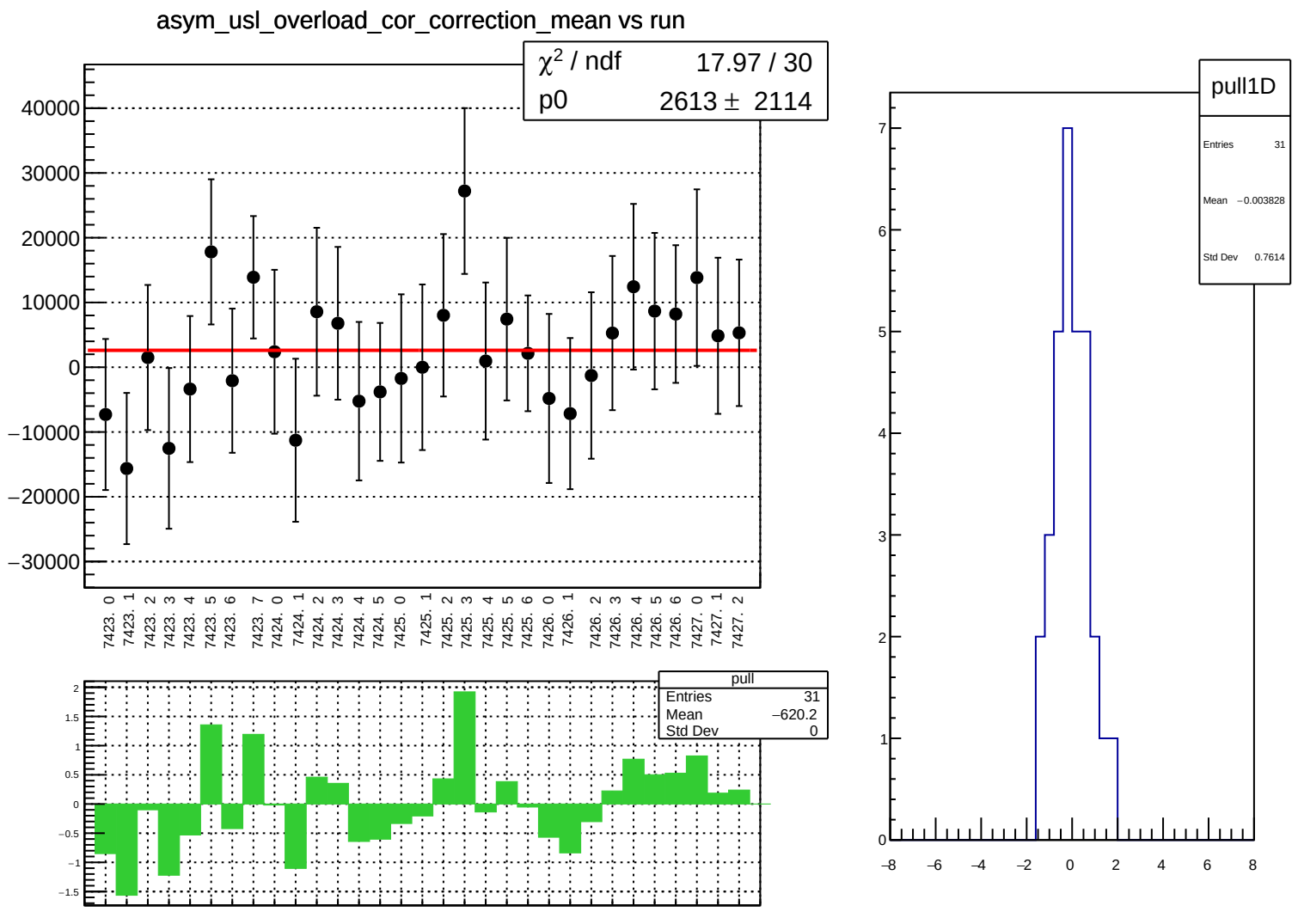
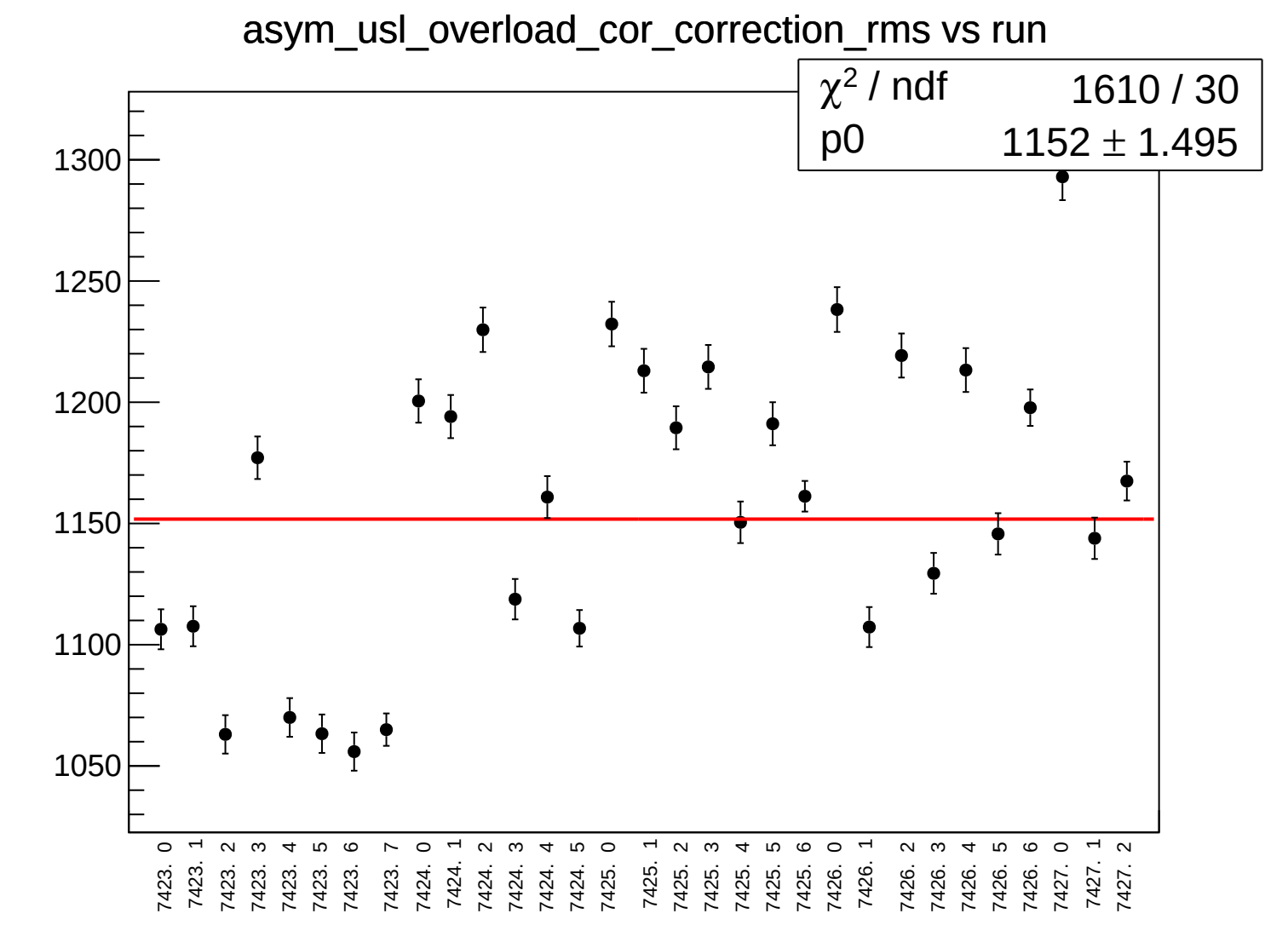
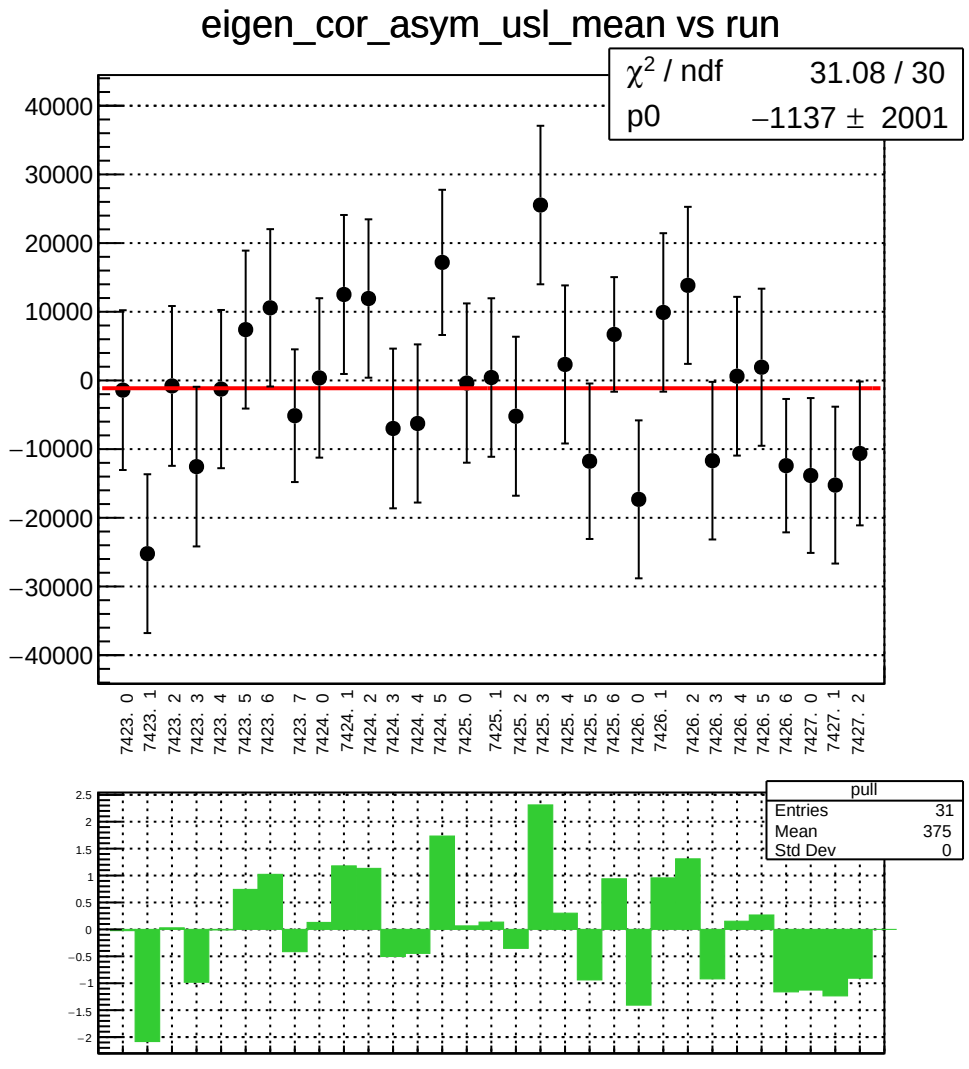
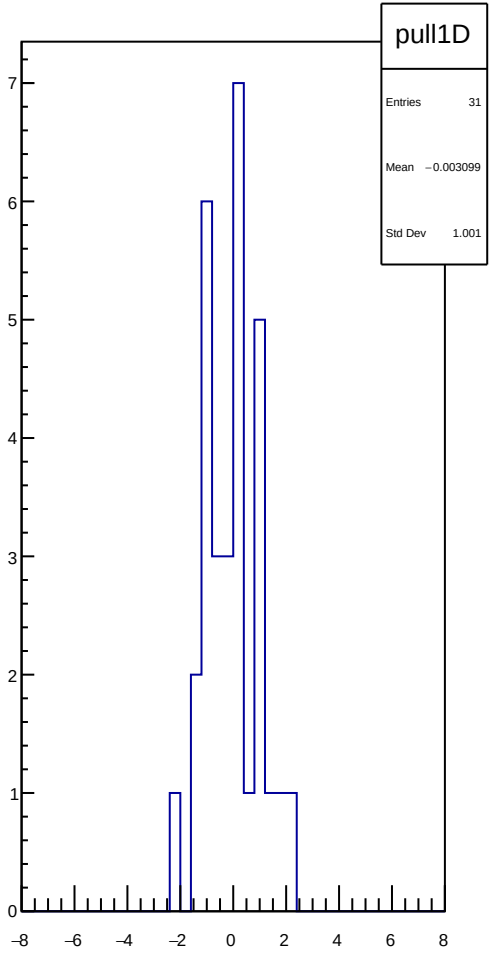
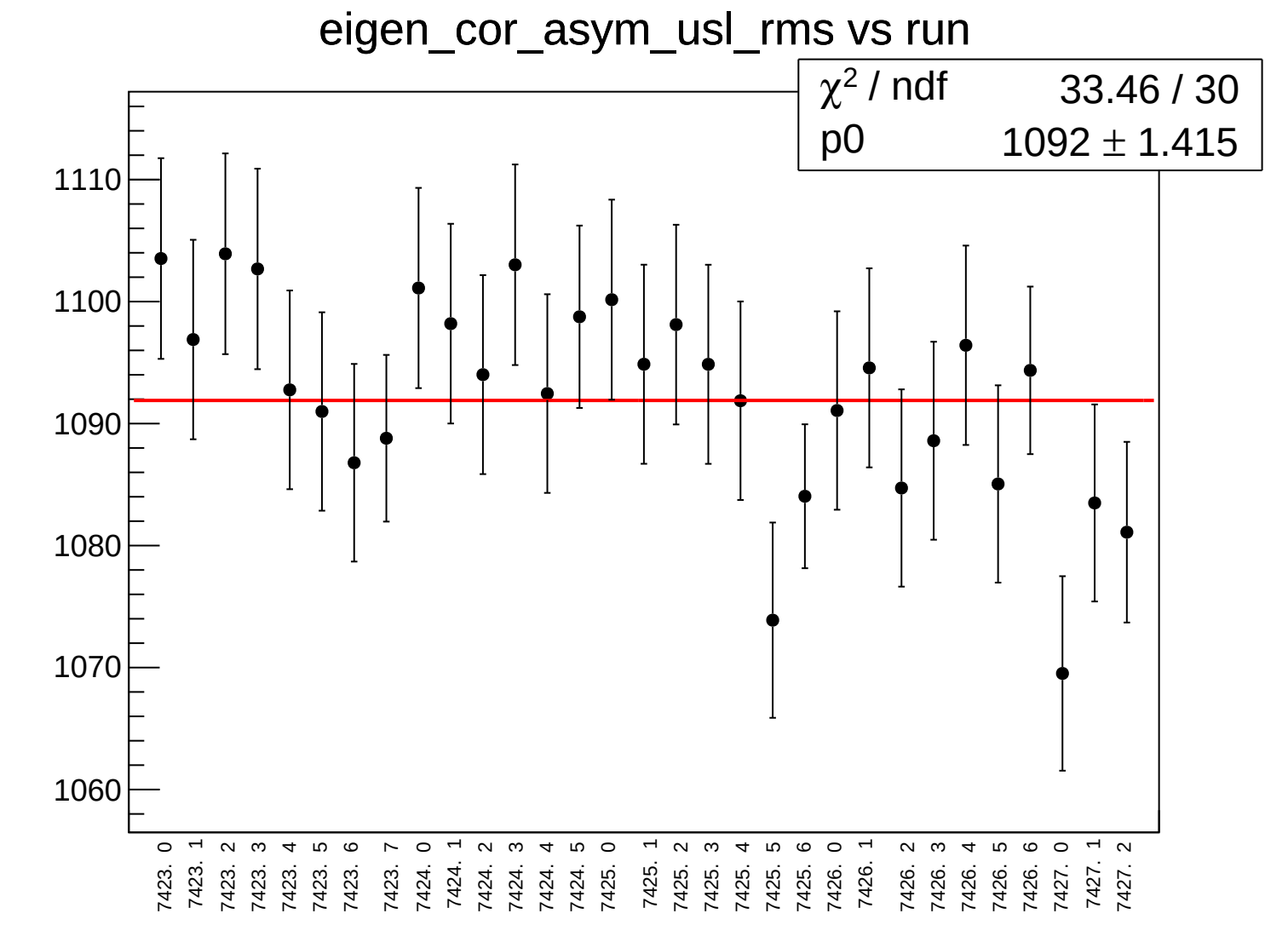
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

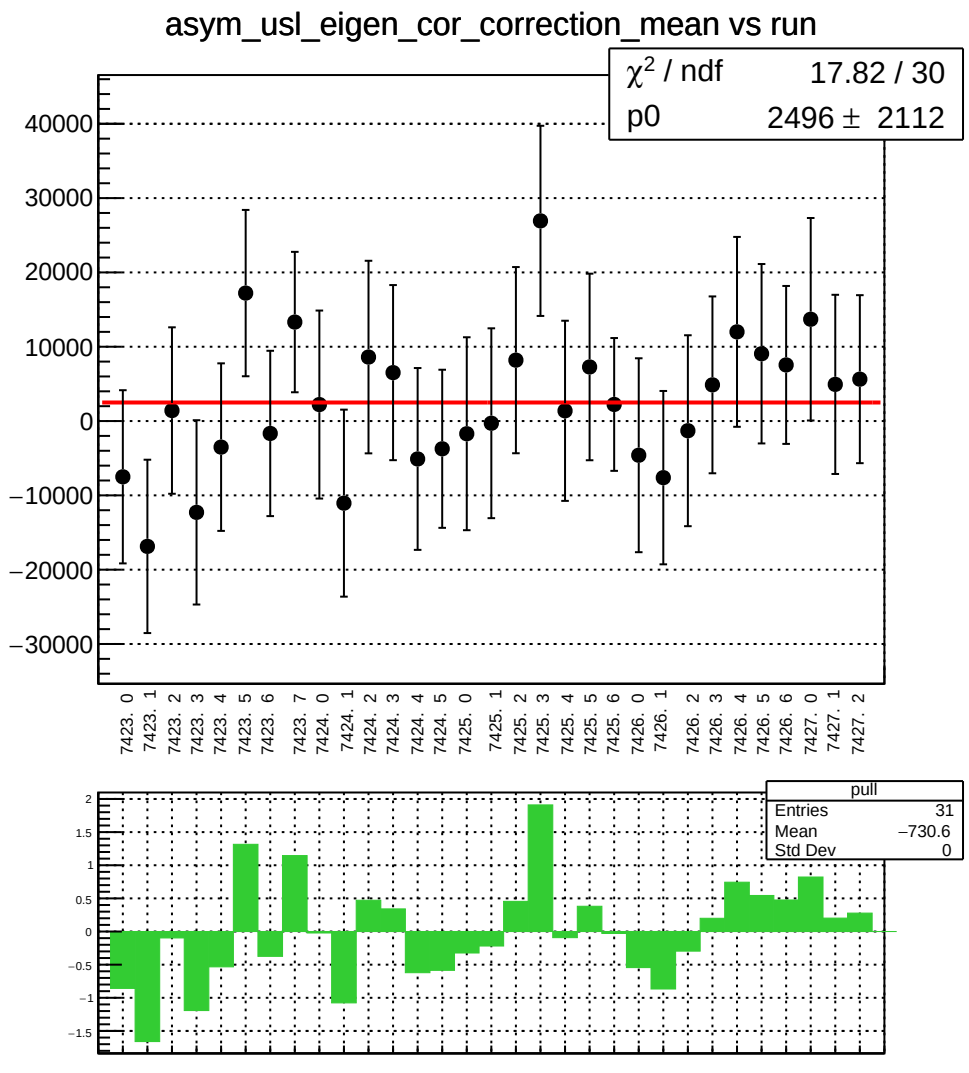

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 17.97 / 30
p0 2613 ± 2114
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −620.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.003828
Std Dev 0.7614
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

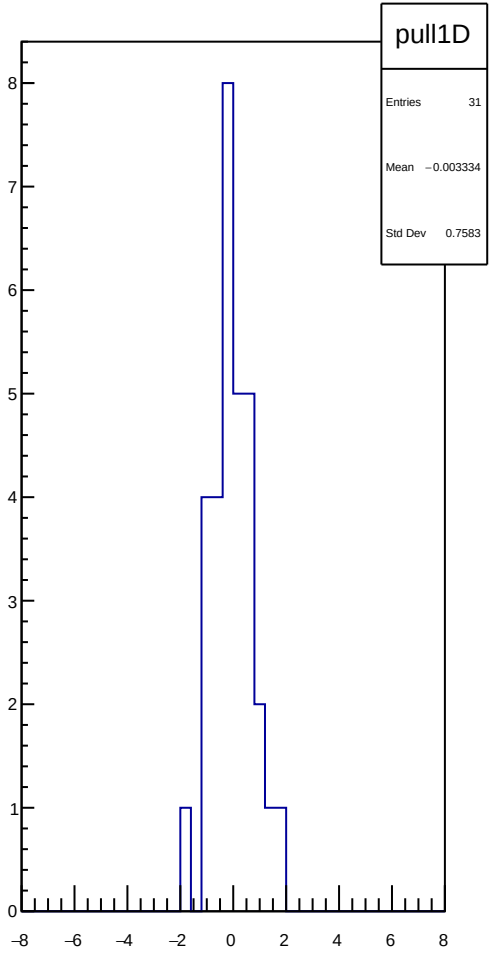

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1610 / 30
p0 1152 ± 1.495
1300
1250
1200
1150
1100
1050
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

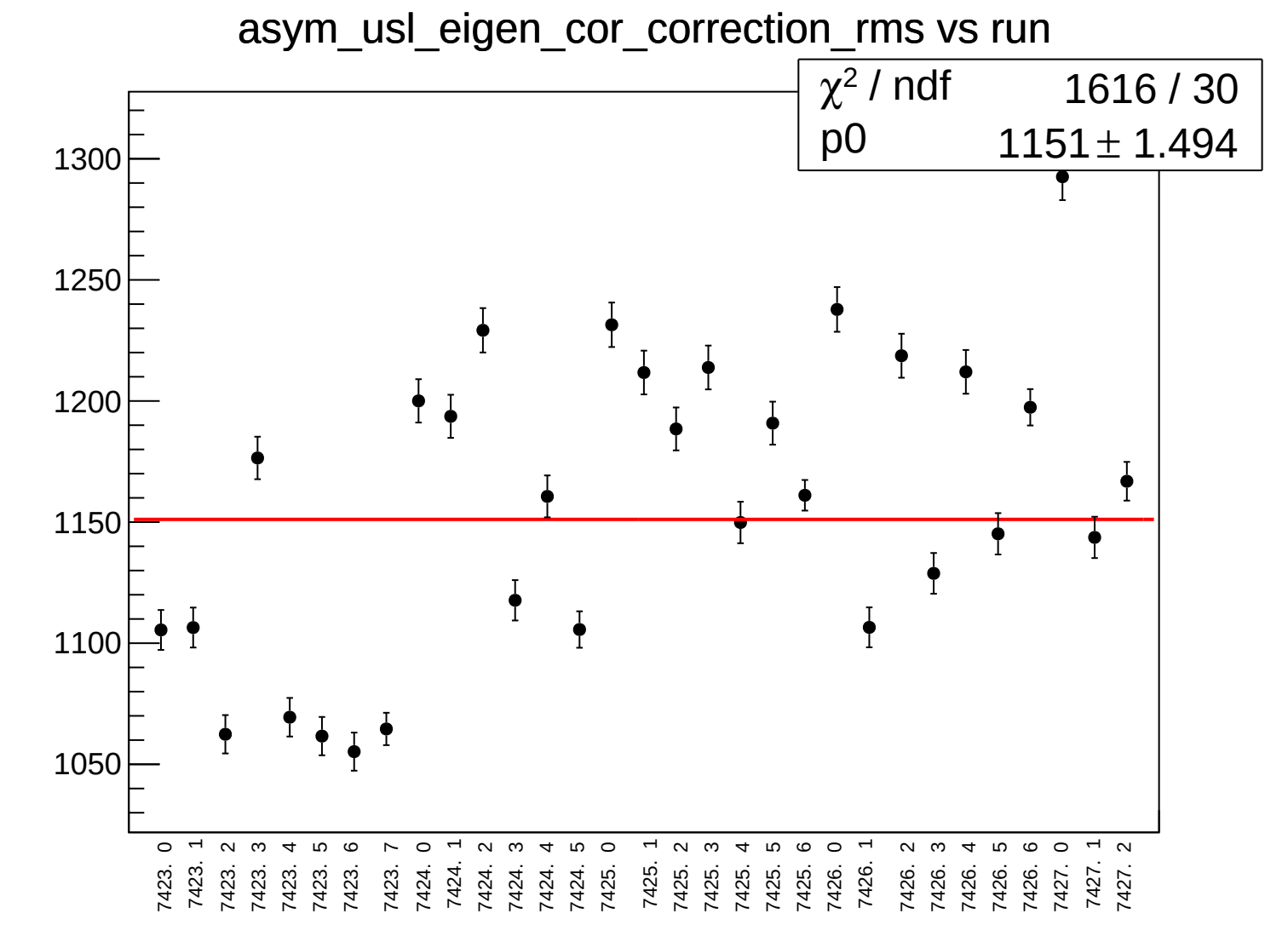

eigen_cor_asym_usl_mean vs run
χ² / ndf 31.08 / 30
p0 −1137 ± 2001
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 375
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

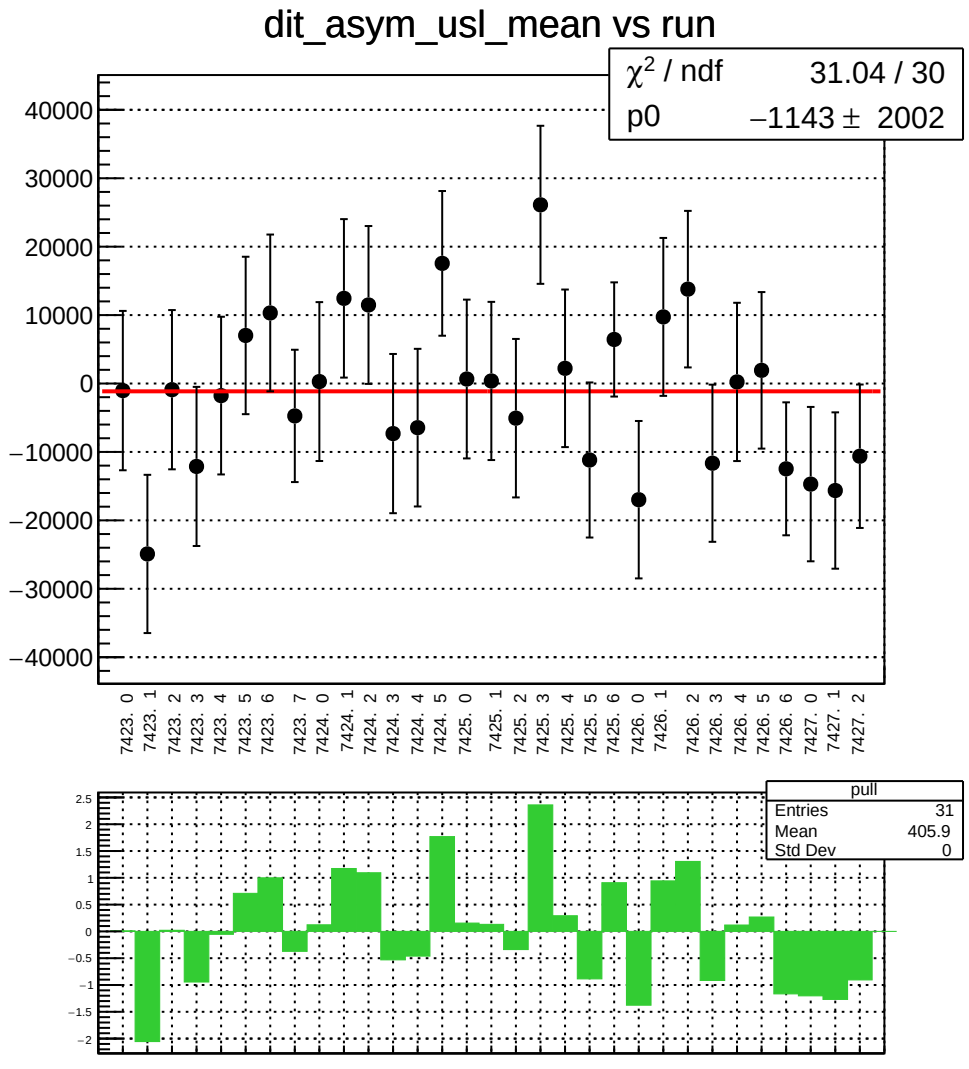

pull1D
Entries 31
Mean −0.003099
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

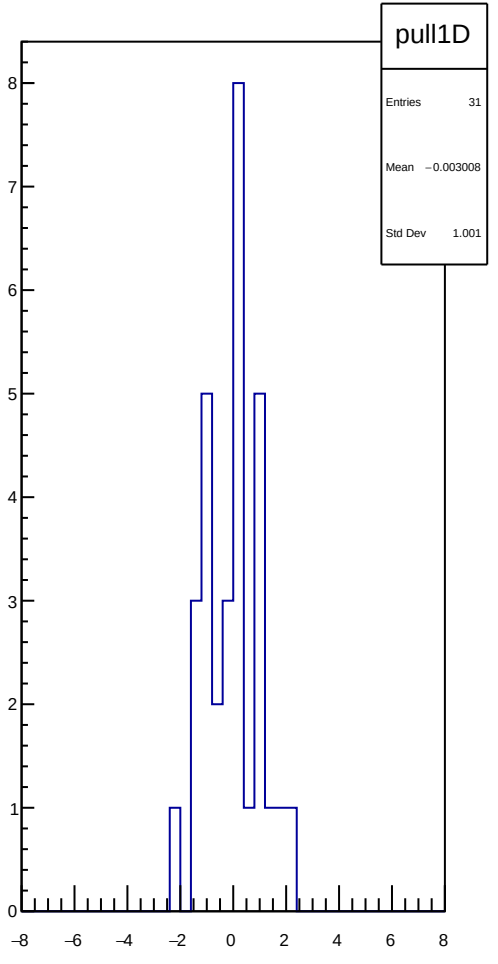

eigen_cor_asym_usl_rms vs run
χ² / ndf 33.46 / 30
p0 1092 ± 1.415
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

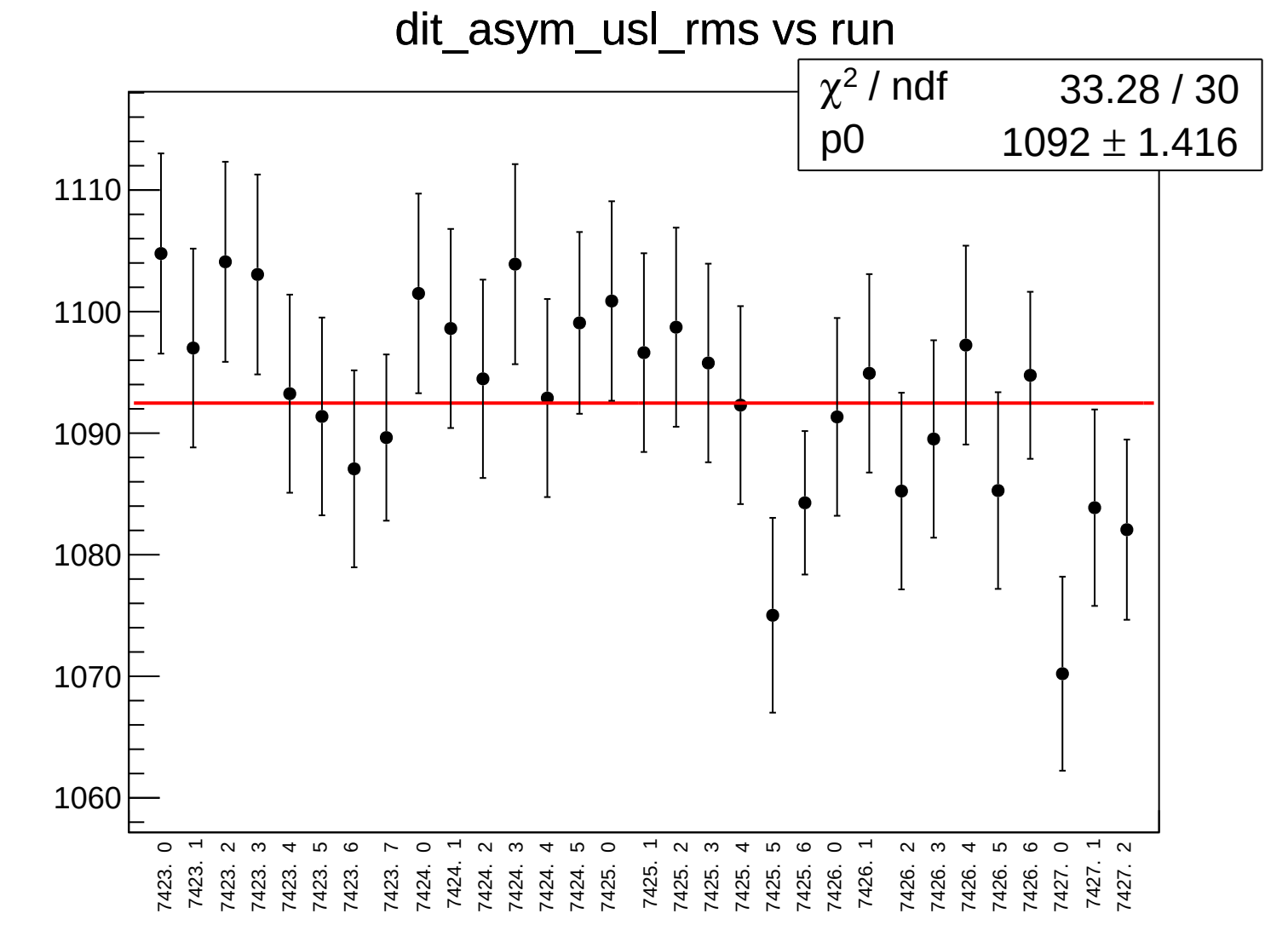

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 17.82 / 30
p0 2496 ± 2112
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −730.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

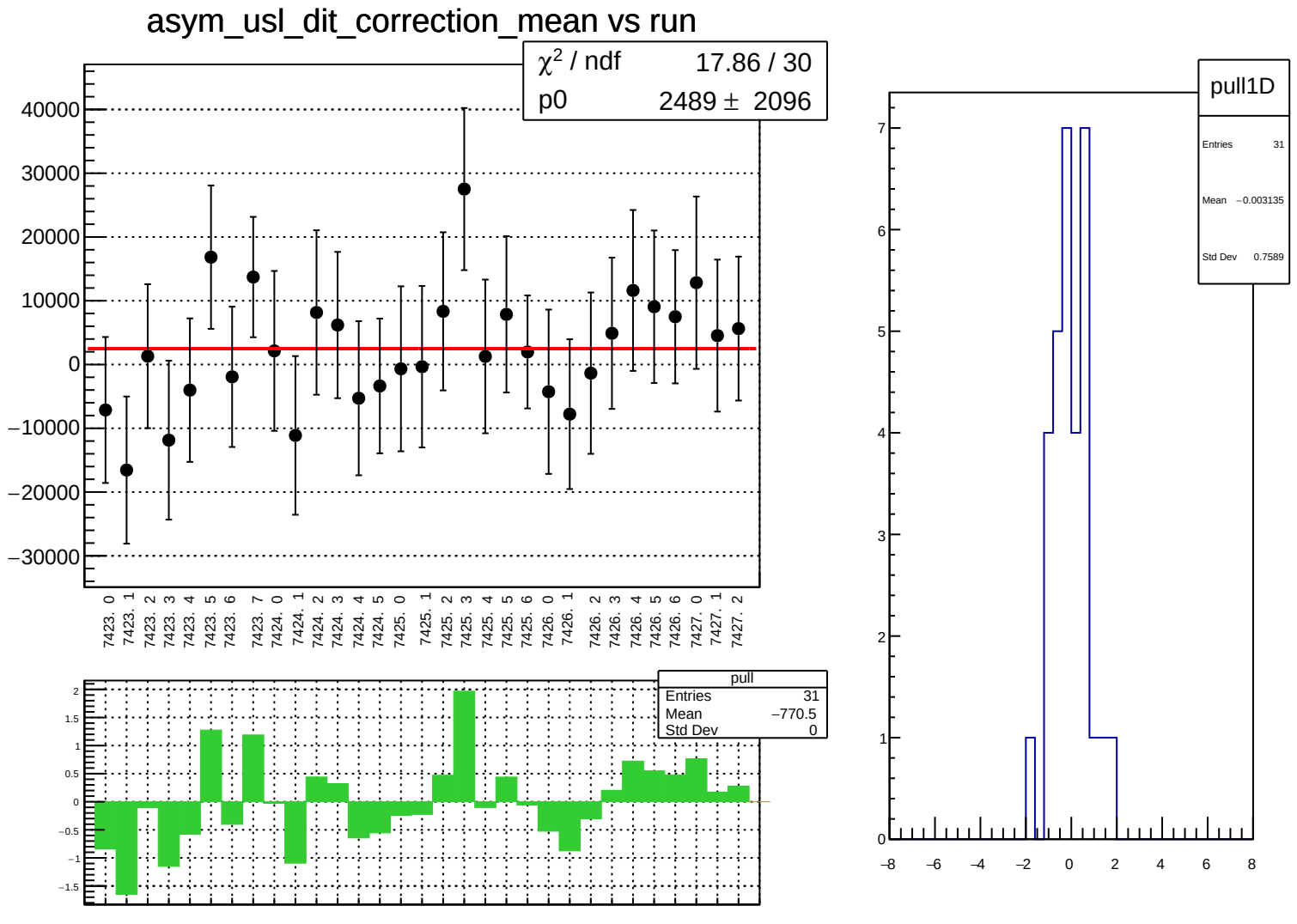

pull1D
Entries 31
Mean −0.003334
Std Dev 0.7583
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

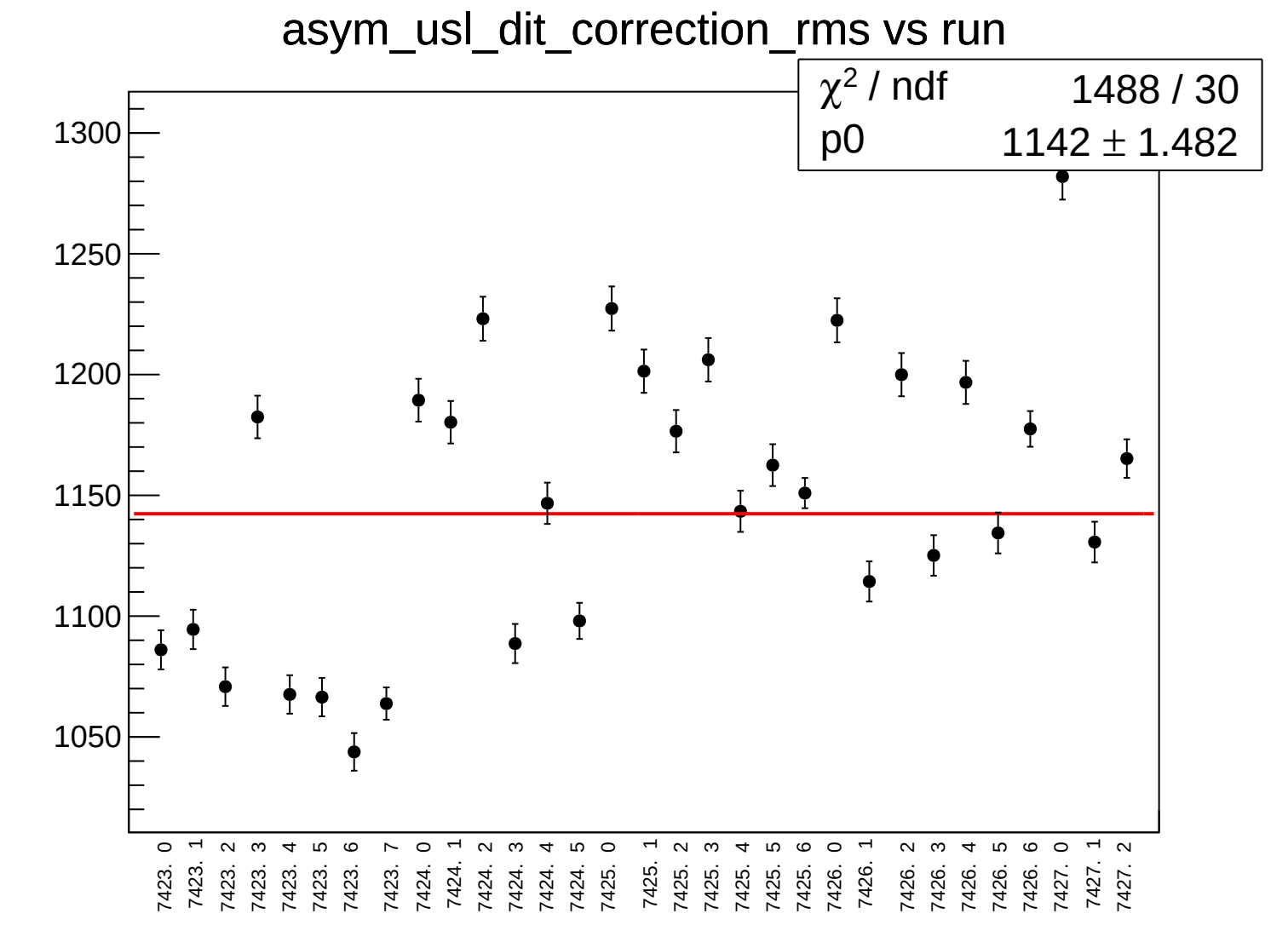

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1616 / 30
p0 1151 ± 1.494
1300
1250
1200
1150
1100
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

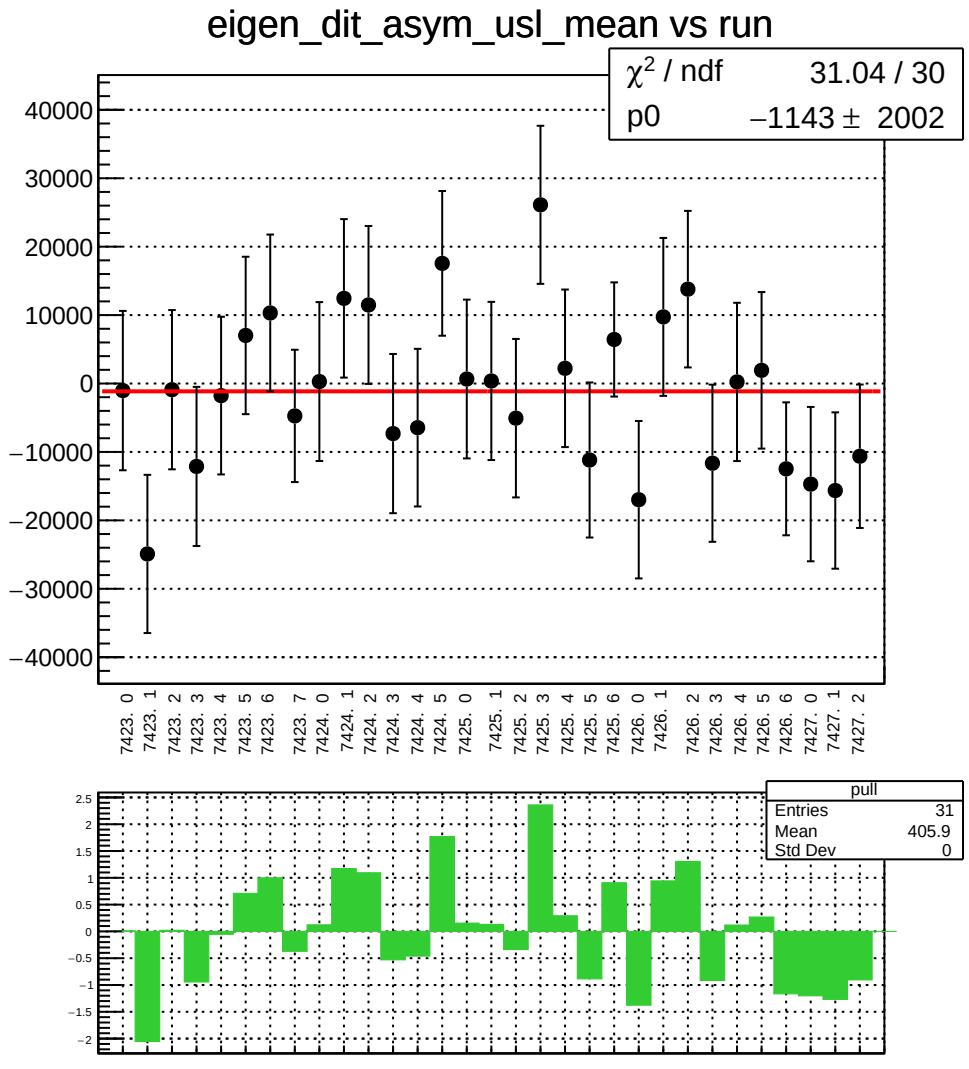

dit_asym_usl_mean vs run
χ² / ndf 31.04 / 30
p0 −1143 ± 2002
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 405.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

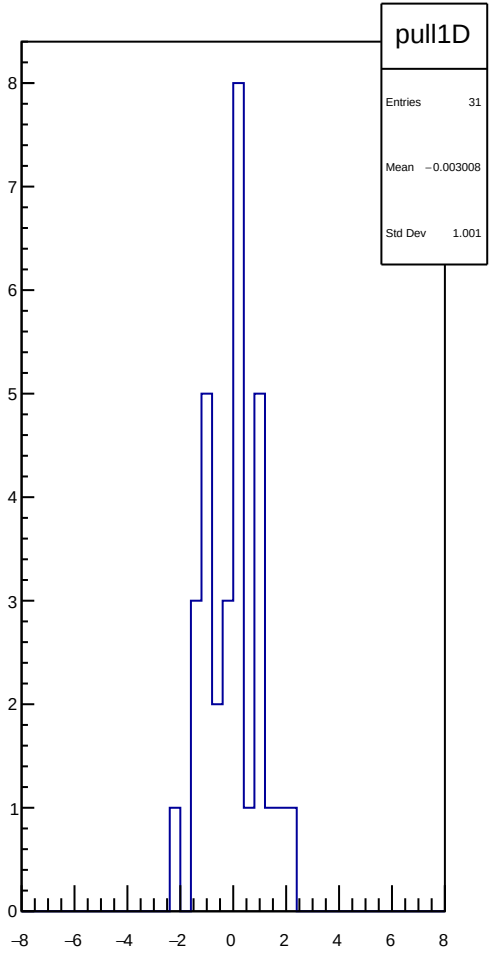

pull1D
Entries 31
Mean −0.003008
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

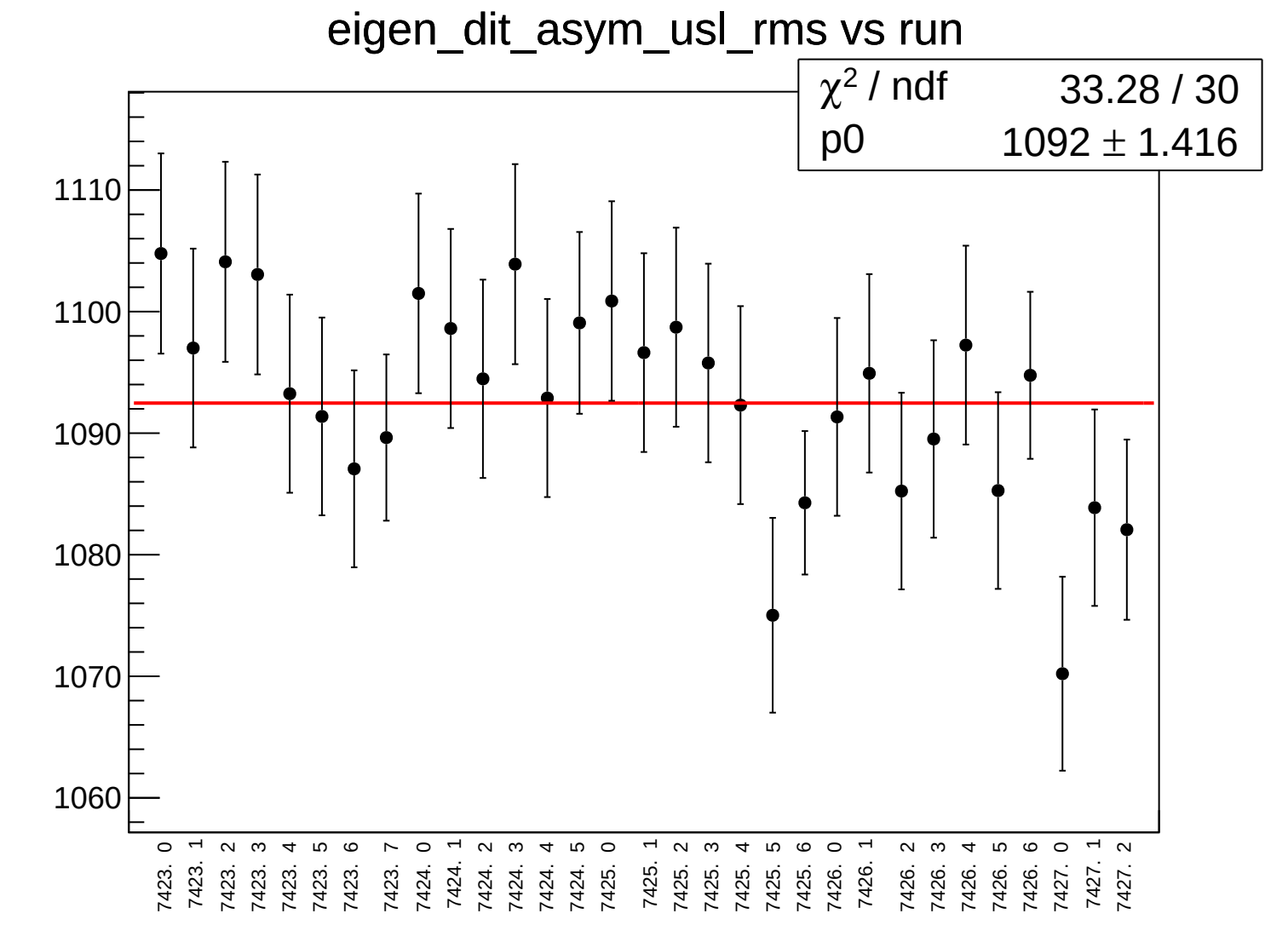

dit_asym_usl_rms vs run
χ² / ndf 33.28 / 30
p0 1092 ± 1.416
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_usl_dit_correction_mean vs run
χ² / ndf 17.86 / 30
p0 2489 ± 2096
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −770.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.003135
Std Dev 0.7589
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_dit_correction_rms vs run
χ² / ndf 1488 / 30
p0 1142 ± 1.482
1300
1250
1200
1150
1100
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_dit_asym_usl_mean vs run
χ² / ndf 31.04 / 30
p0 −1143 ± 2002
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 405.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.003008
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_rms vs run
χ² / ndf 33.28 / 30
p0 1092 ± 1.416
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
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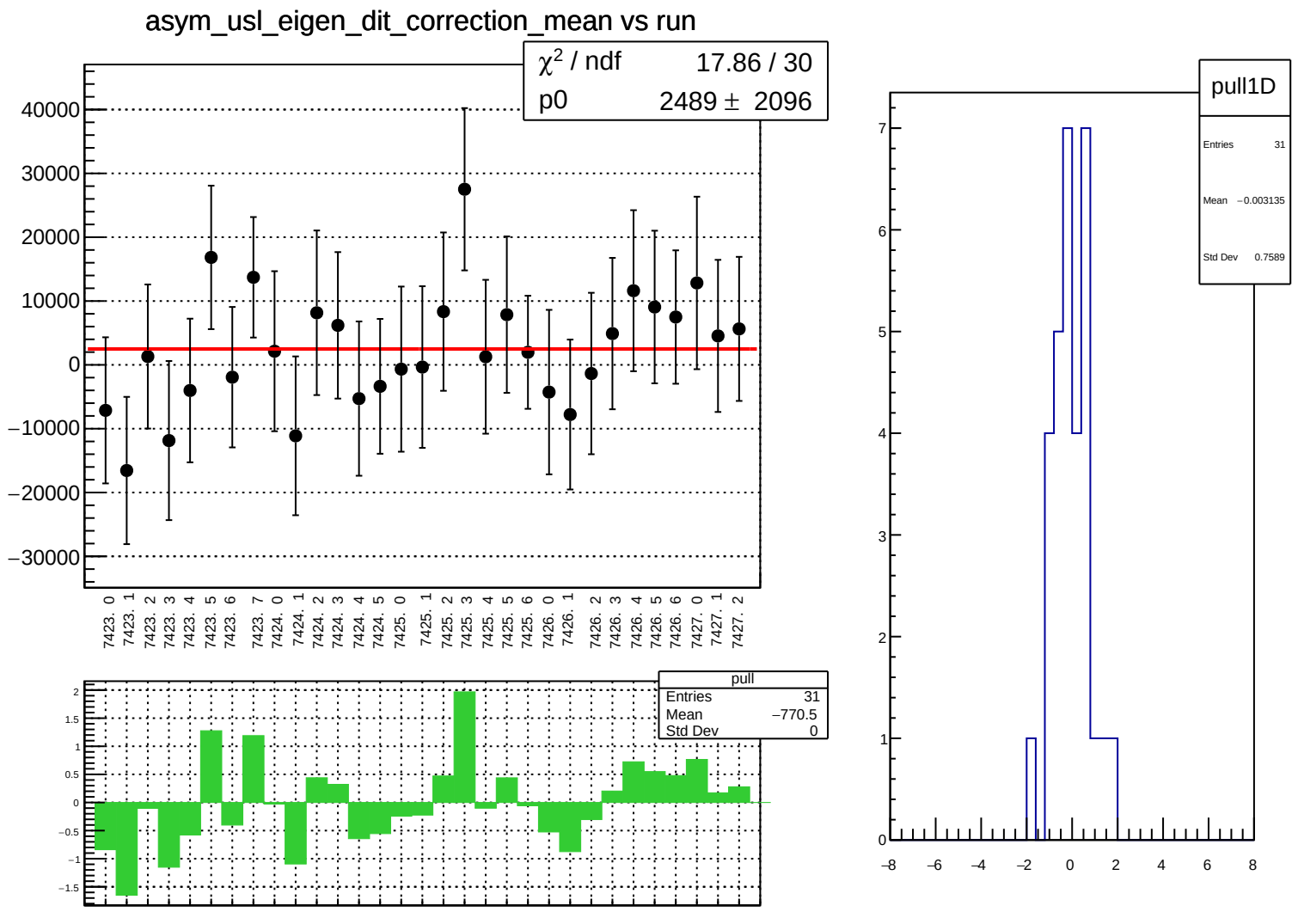
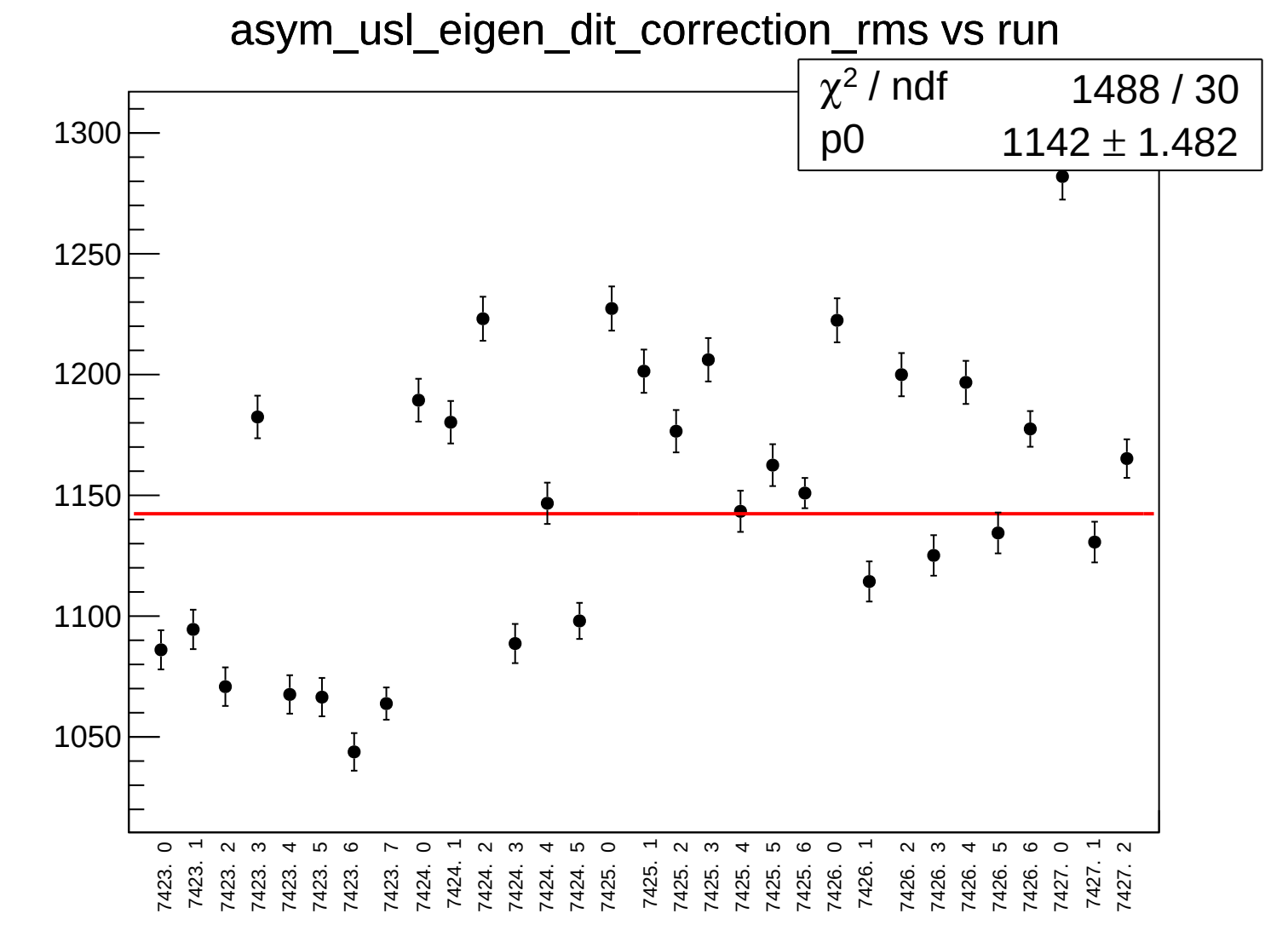
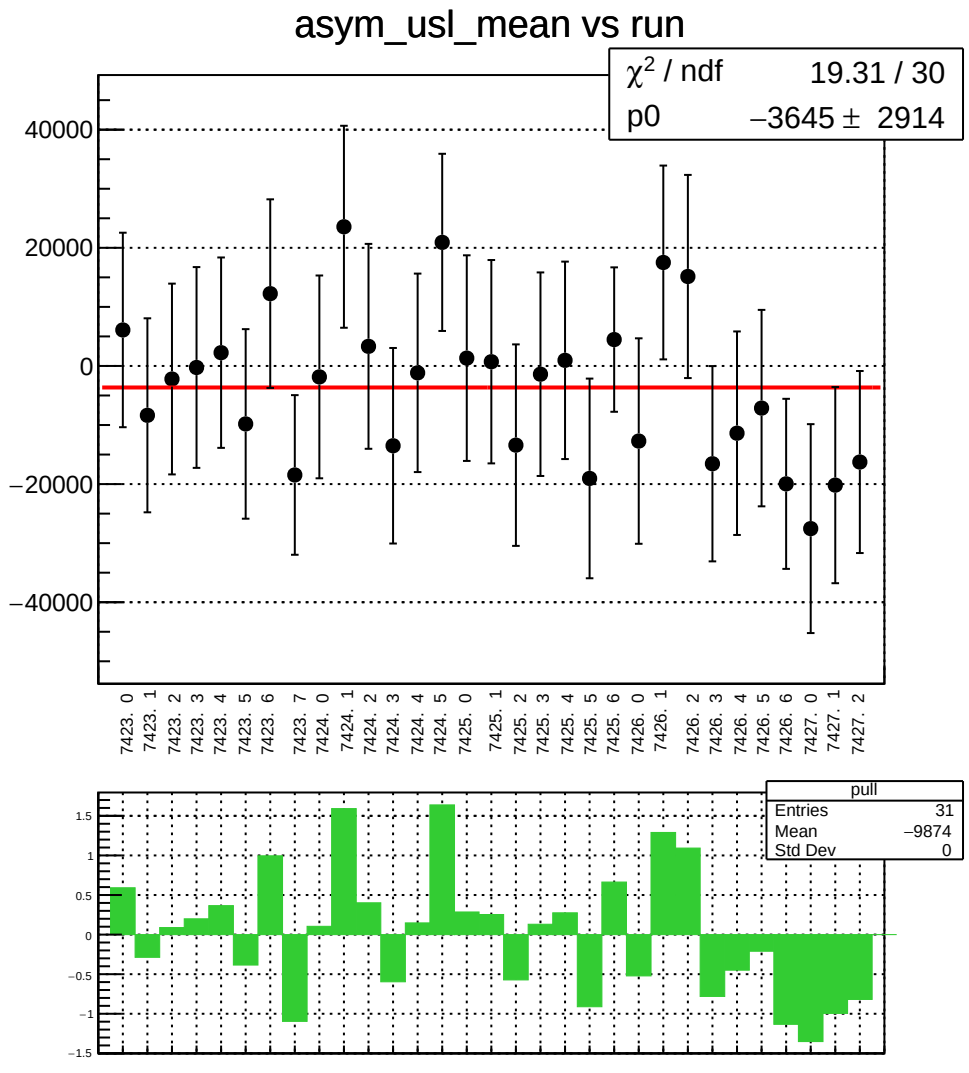
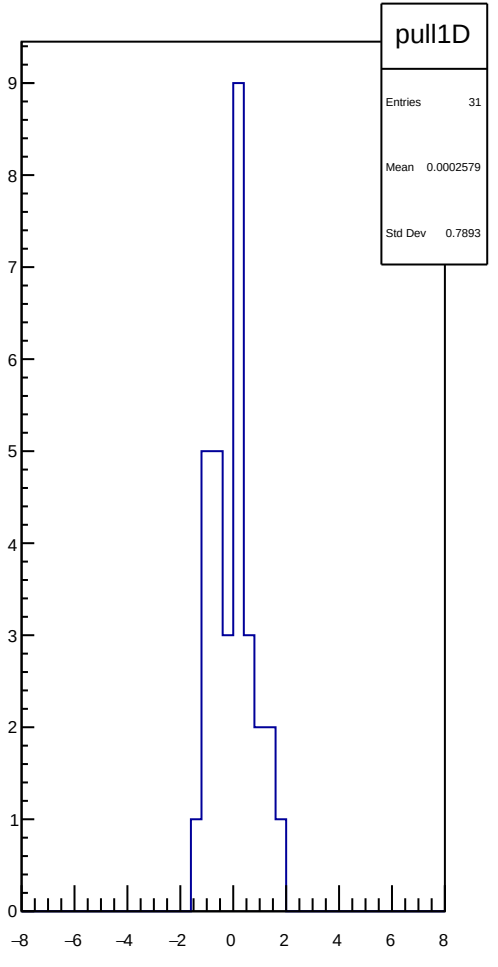
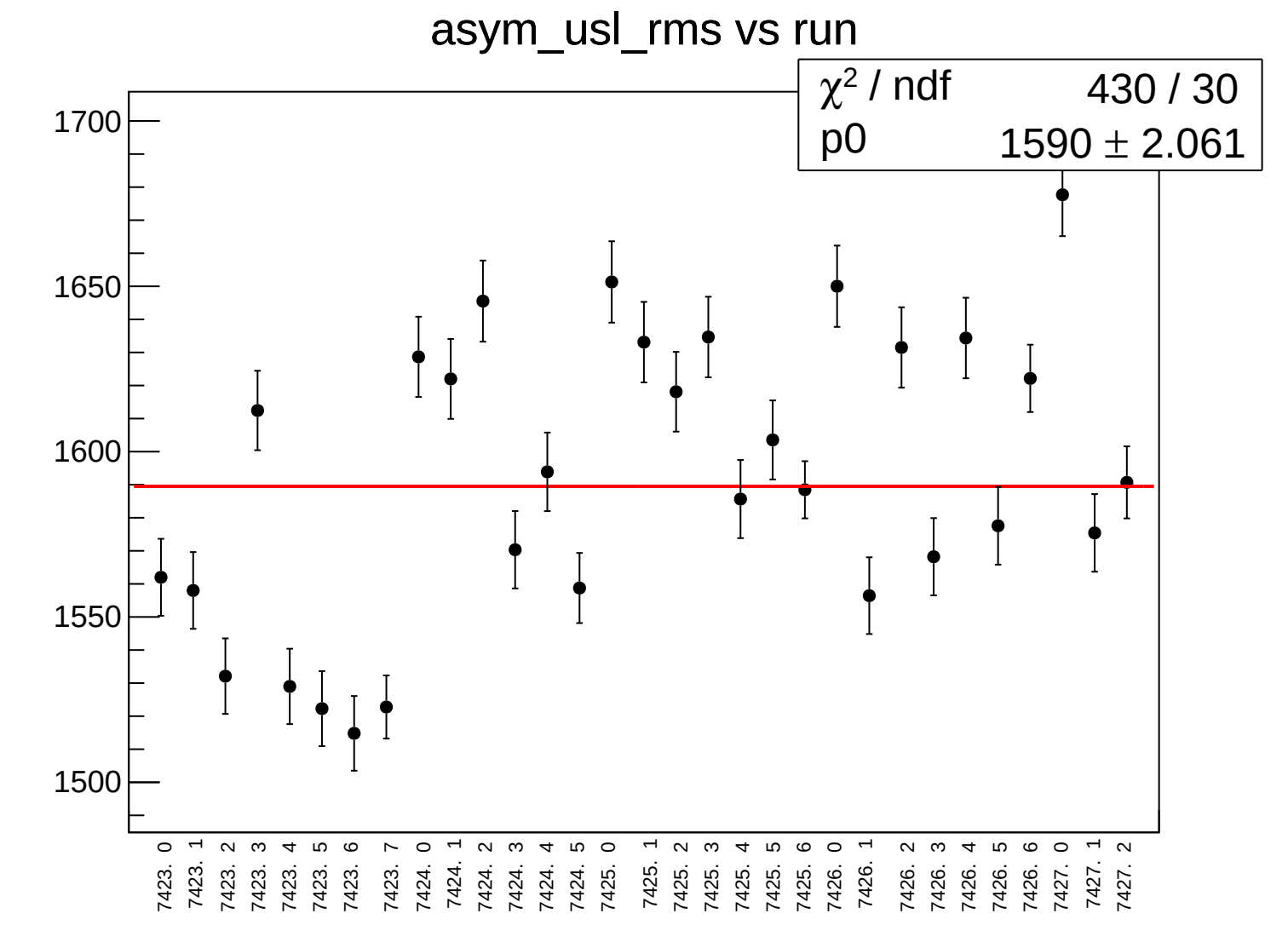
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

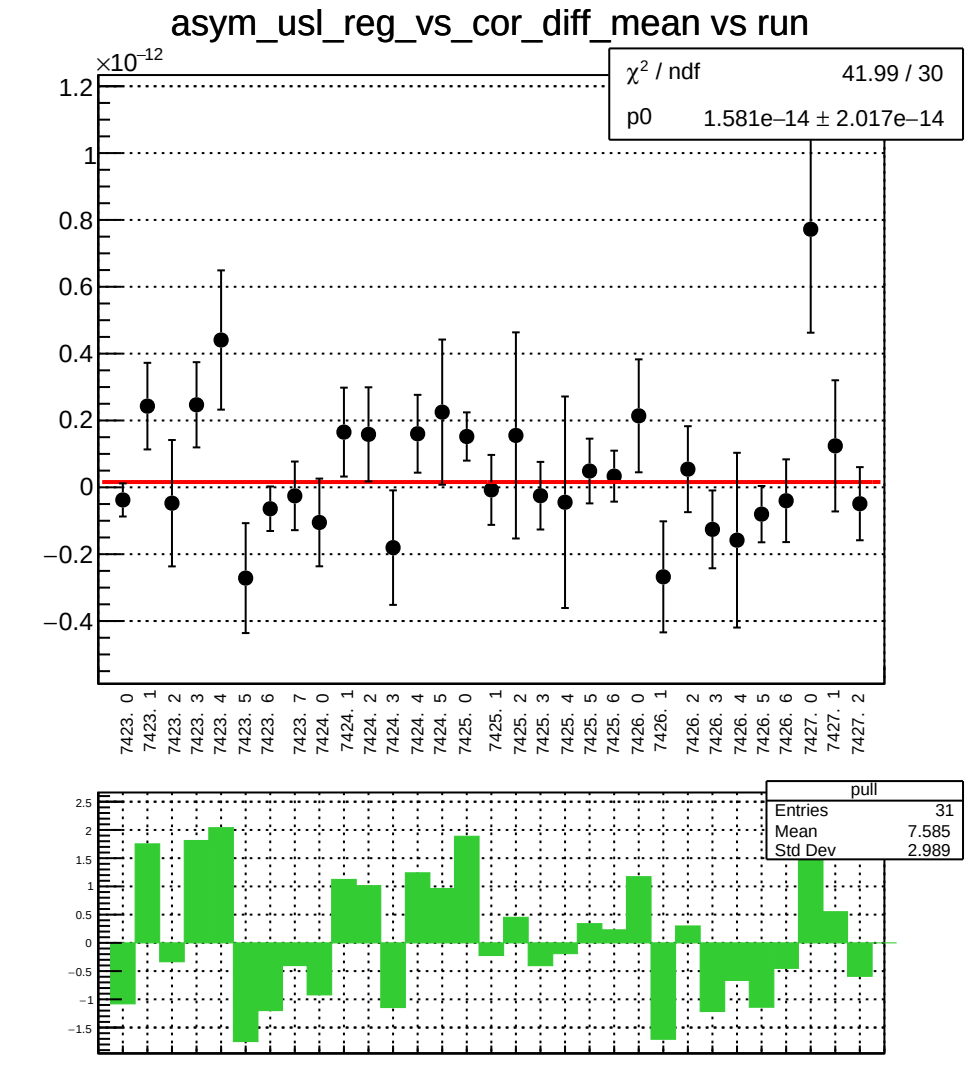

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 17.86 / 30
p0 2489 ± 2096
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −770.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.003135
Std Dev 0.7589
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

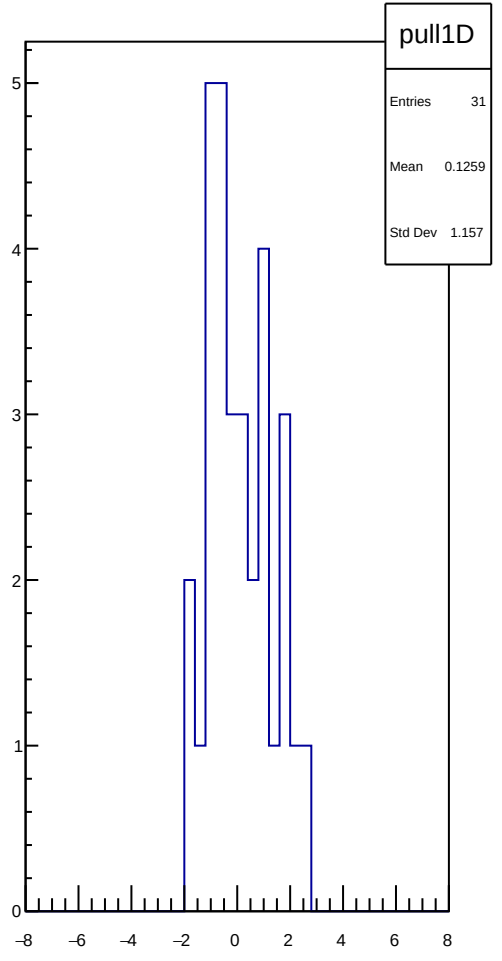

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1488 / 30
p0 1142 ± 1.482
1300
1250
1200
1150
1100
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

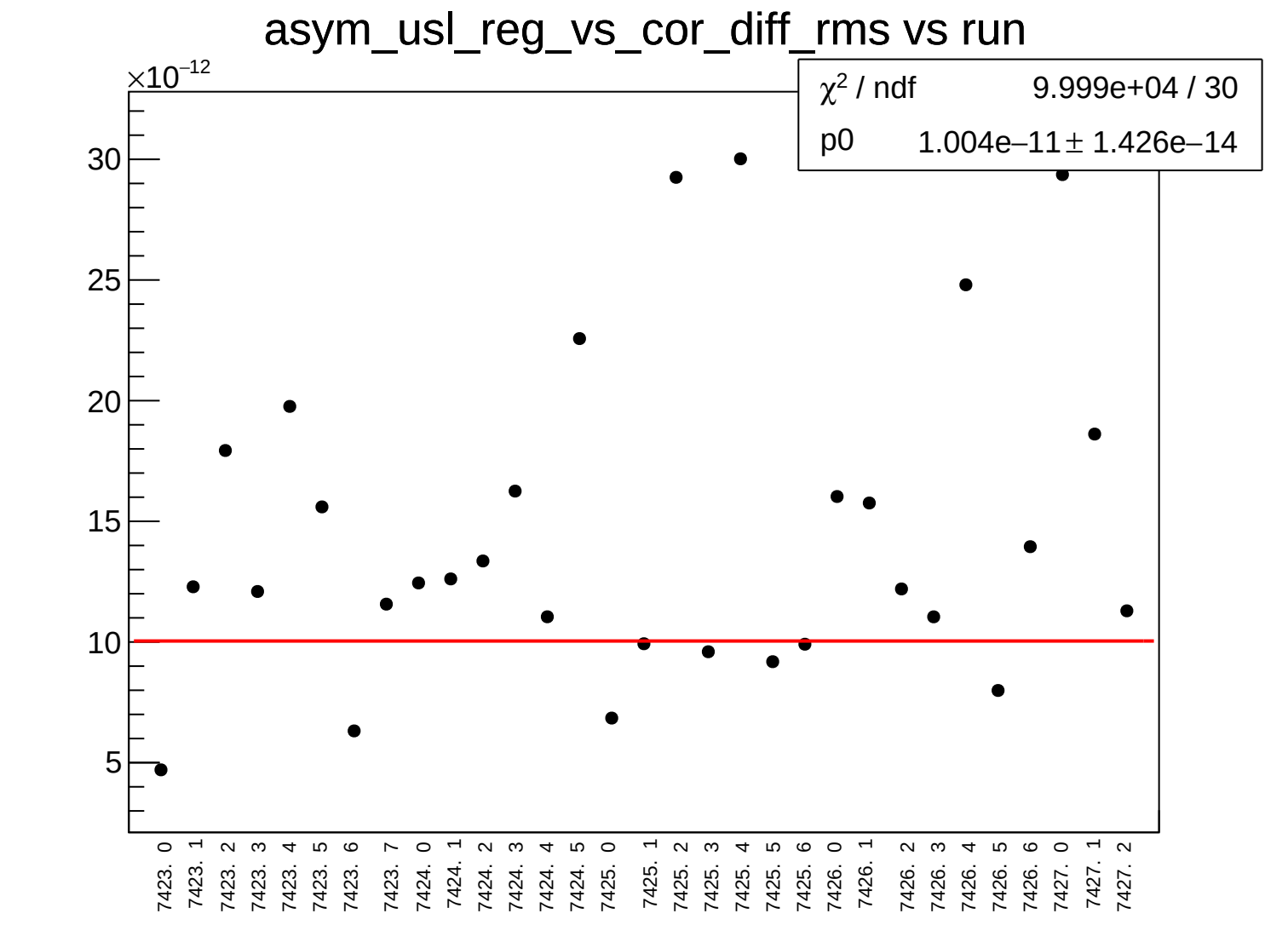

asym_usl_mean vs run
χ² / ndf 19.31 / 30
p0 −3645 ± 2914
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −9874
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

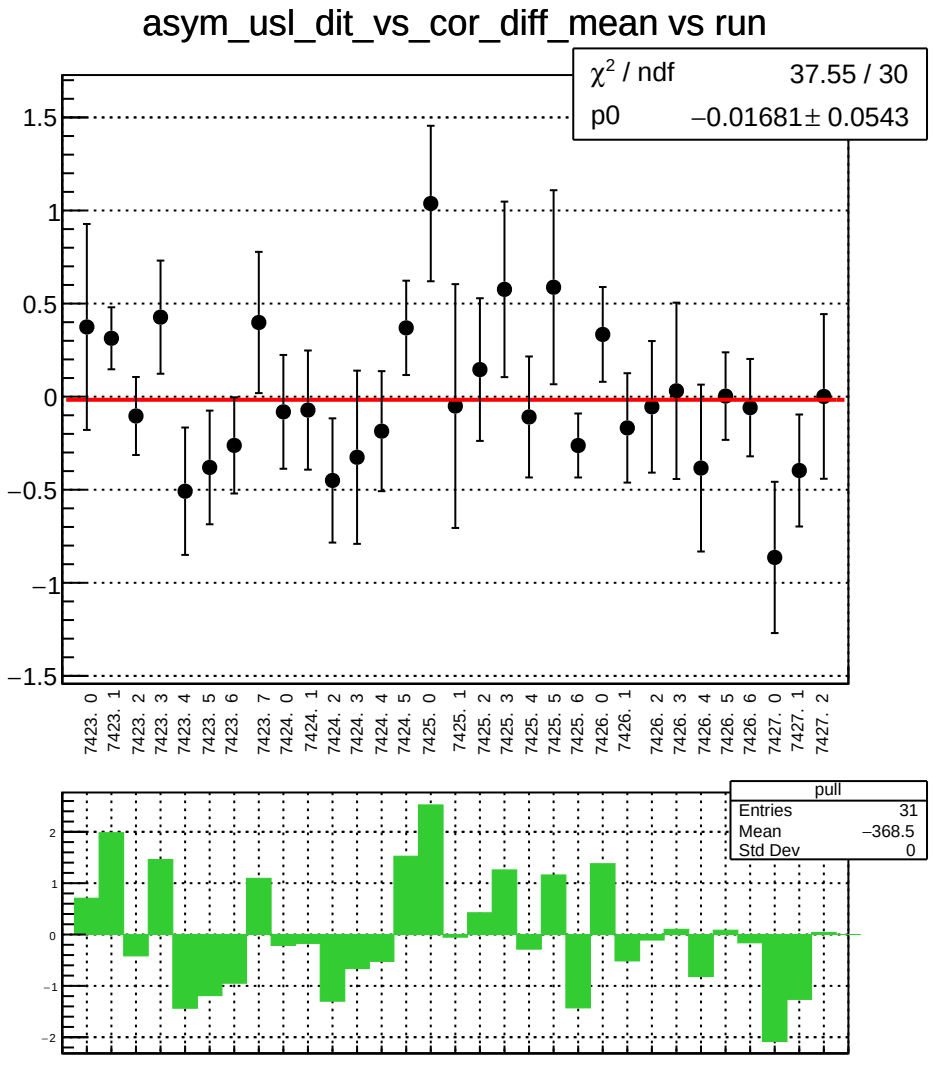

pull1D
Entries 31
Mean 0.0002579
Std Dev 0.7893
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

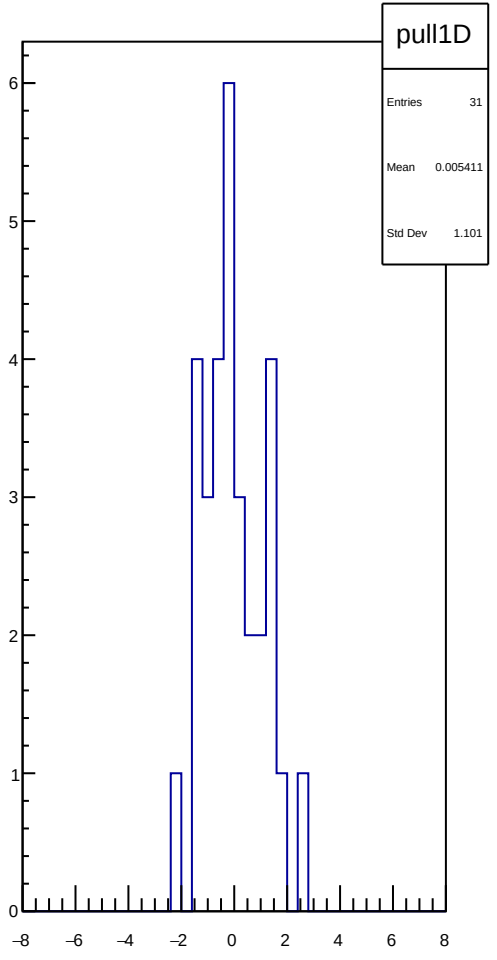

asym_usl_rms vs run
χ² / ndf 430 / 30
p0 1590 ± 2.061
1700
1650
1600
1550
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

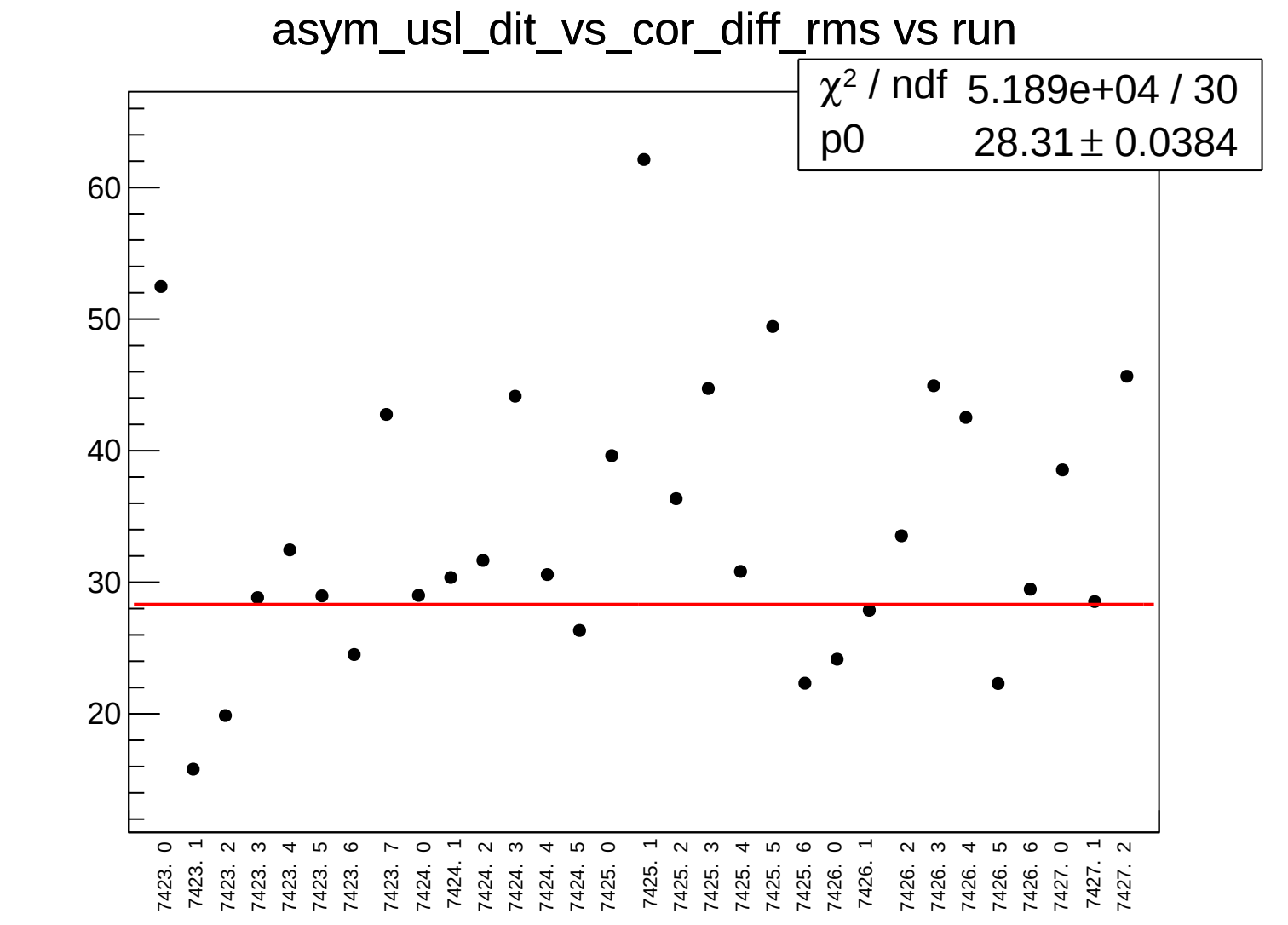

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.99 / 30
p0 1.581e−14 ± 2.017e−14
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 7.585
Std Dev 2.989
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

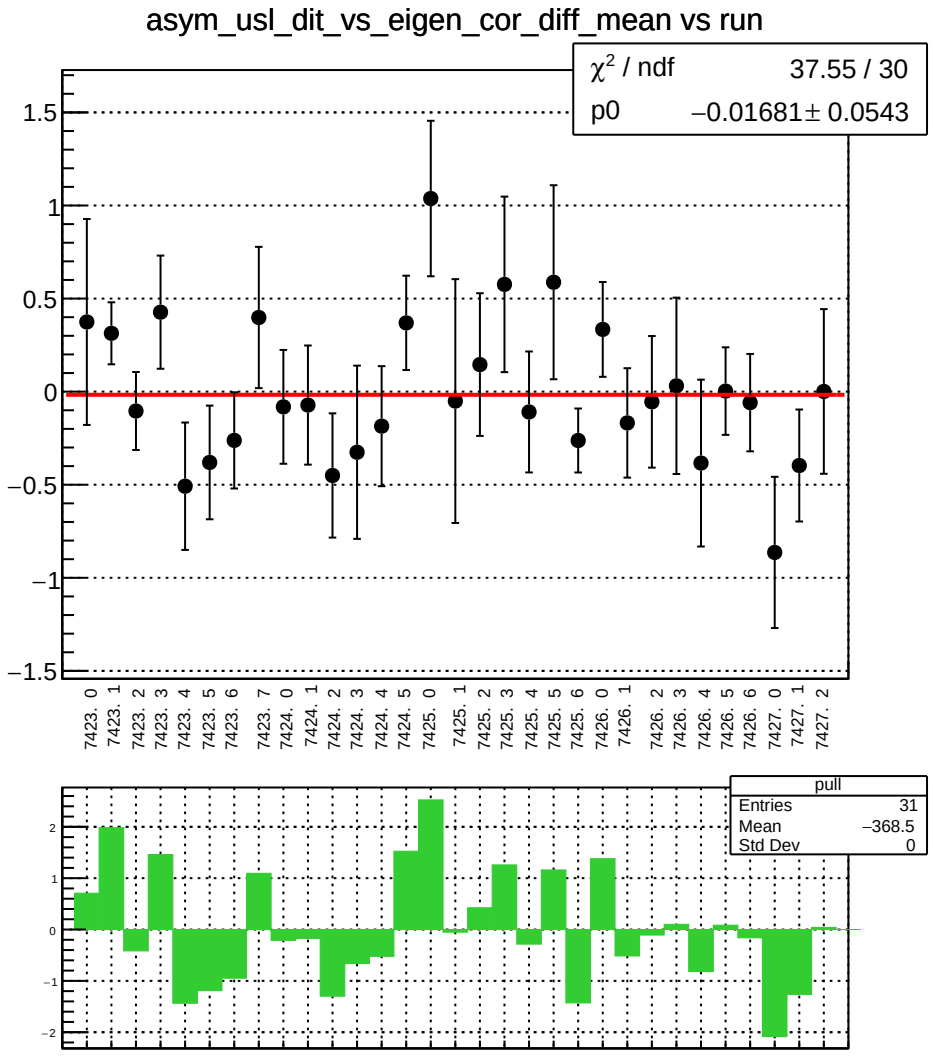

pull1D
Entries 31
Mean 0.1259
Std Dev 1.157
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

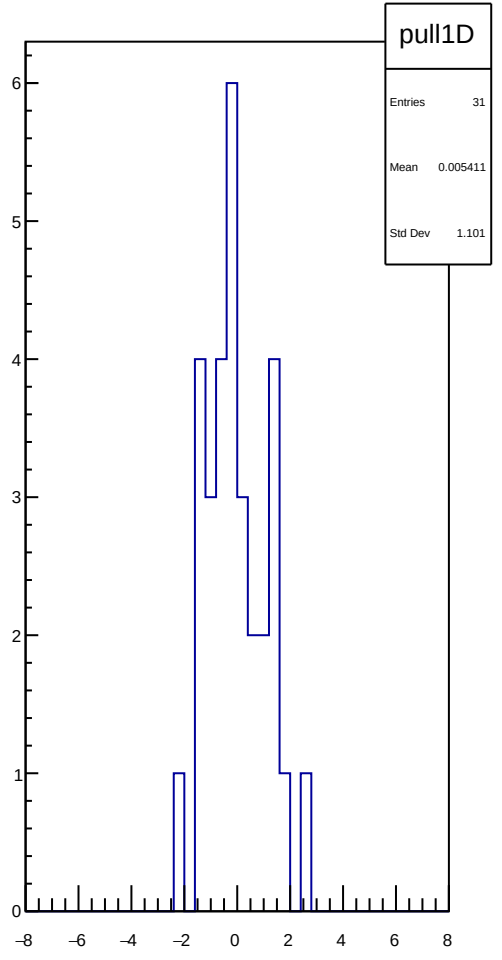

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.999e+04 / 30
p0 1.004e−11 ± 1.426e−14
30
25
20
15
10
5
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

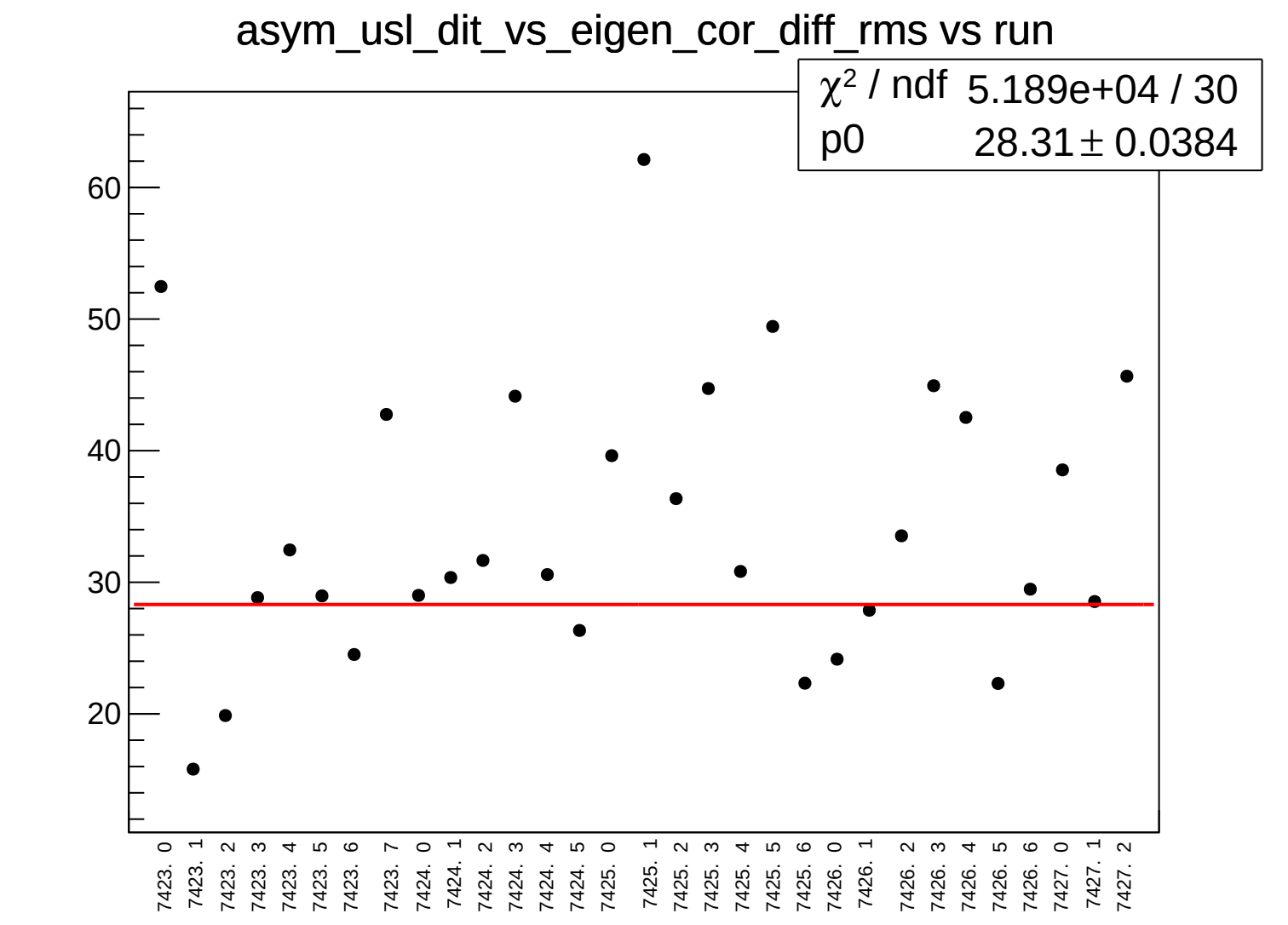

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 37.55 / 30
p0 −0.01681 ± 0.0543
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −368.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 31
Mean 0.005411
Std Dev 1.101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

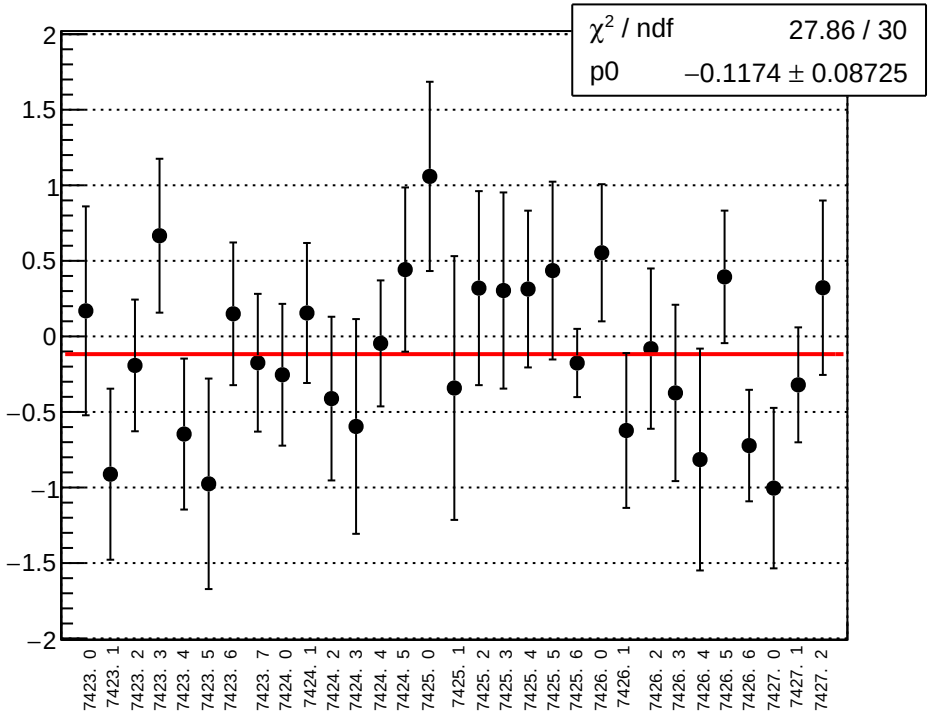

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 5.189e+04 / 30
p0 28.31 ± 0.0384
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

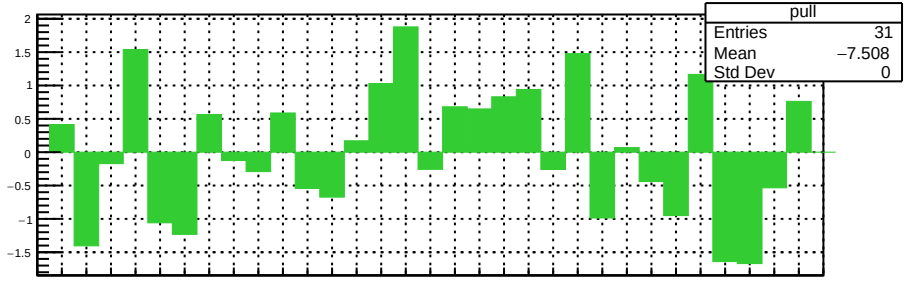

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.55 / 30
p0 −0.01681 ± 0.0543
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −368.5
Std Dev 0
2
1
0
−1
−2

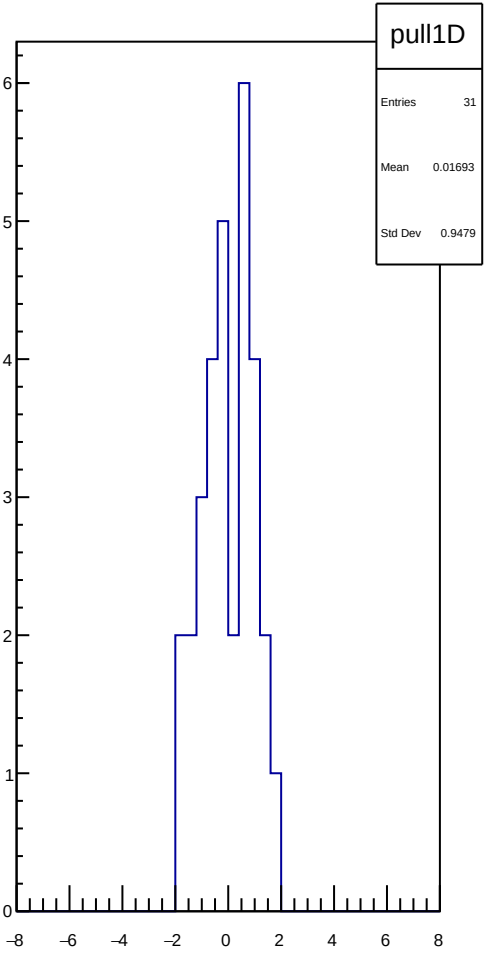

pull1D
Entries 31
Mean 0.005411
Std Dev 1.101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

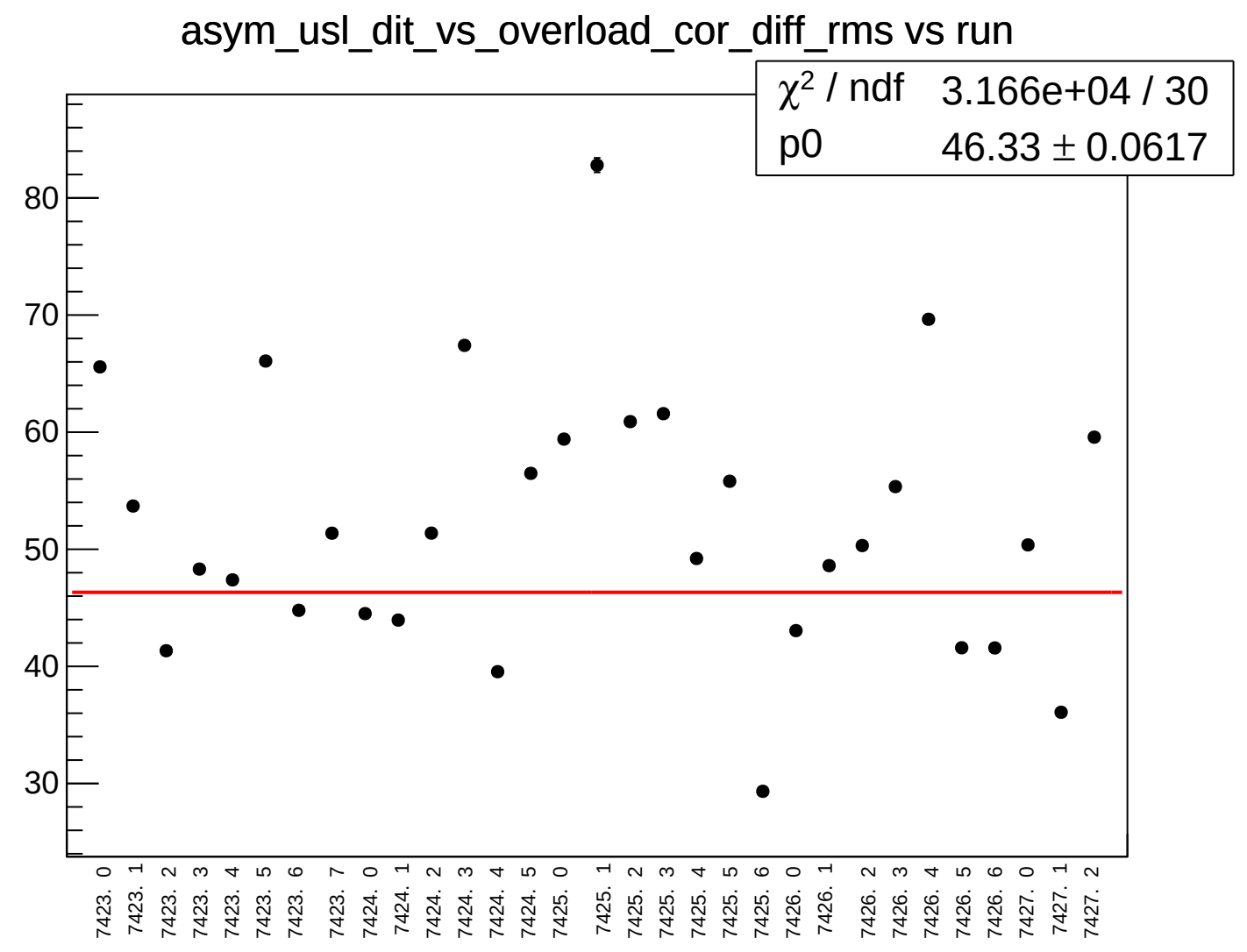

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.189e+04 / 30
p0 28.31 ± 0.0384
60
50
40
30
20
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

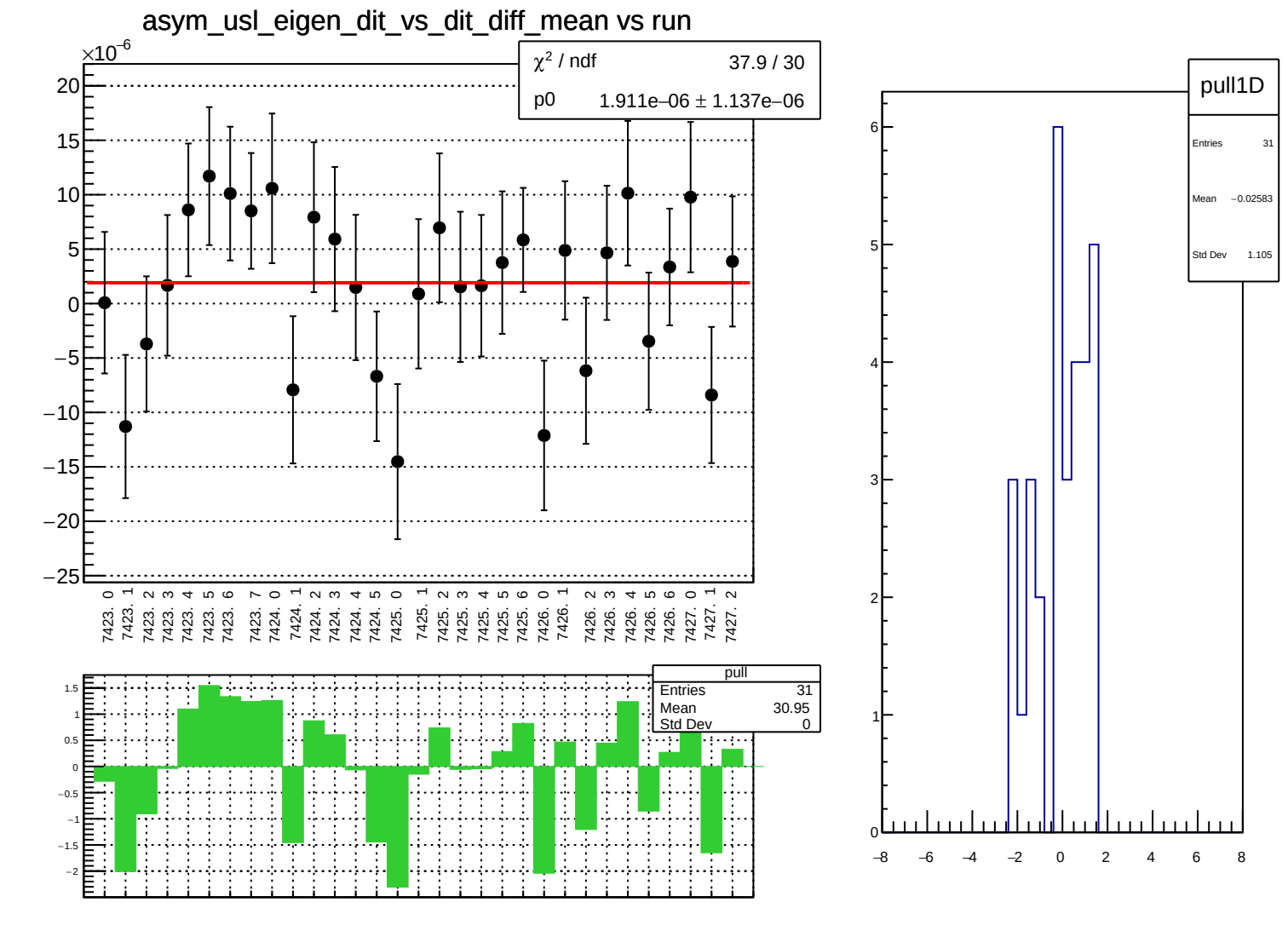
asym_usl_dit_vs_overload_cor_diff_mean vs run

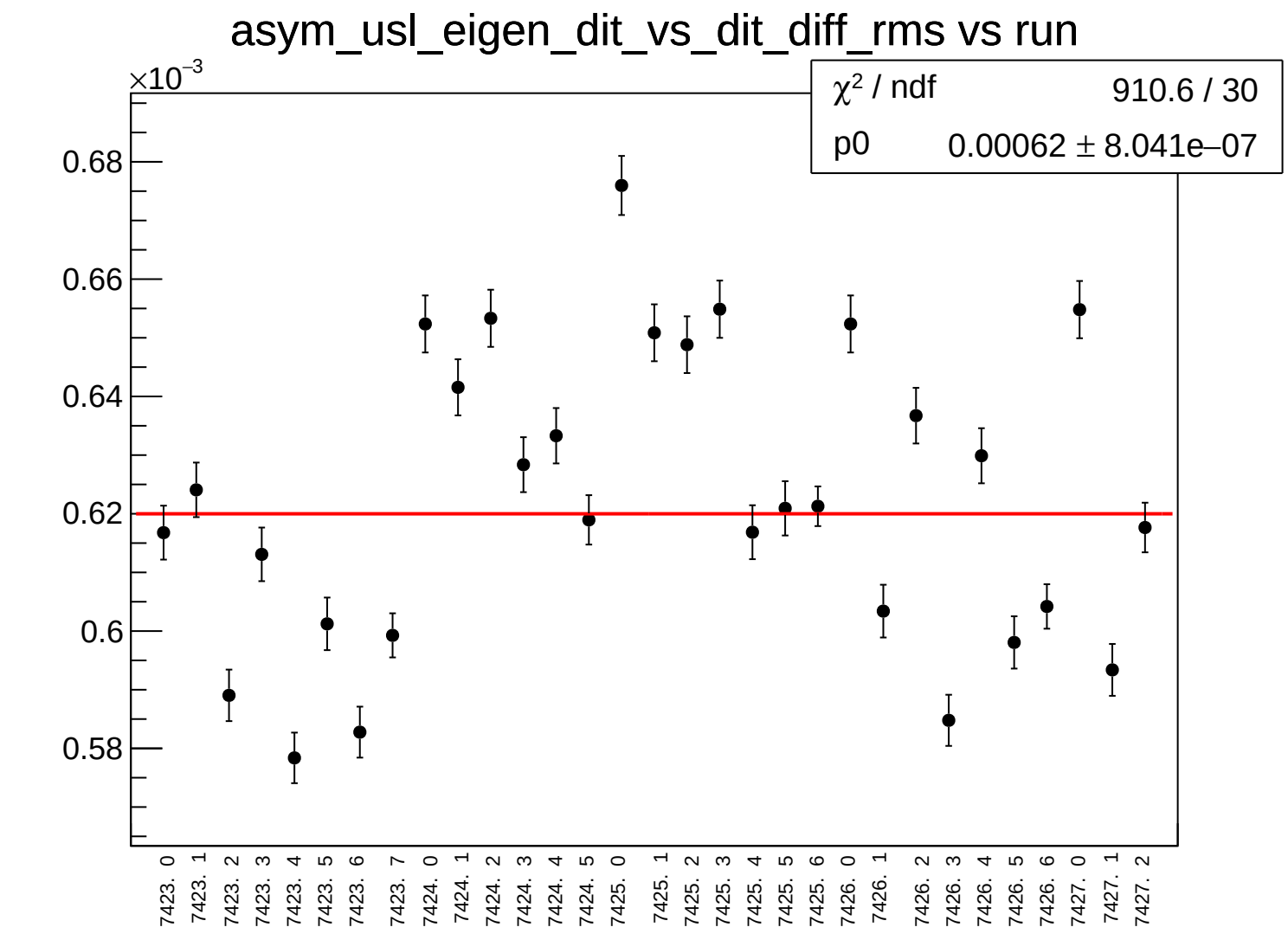


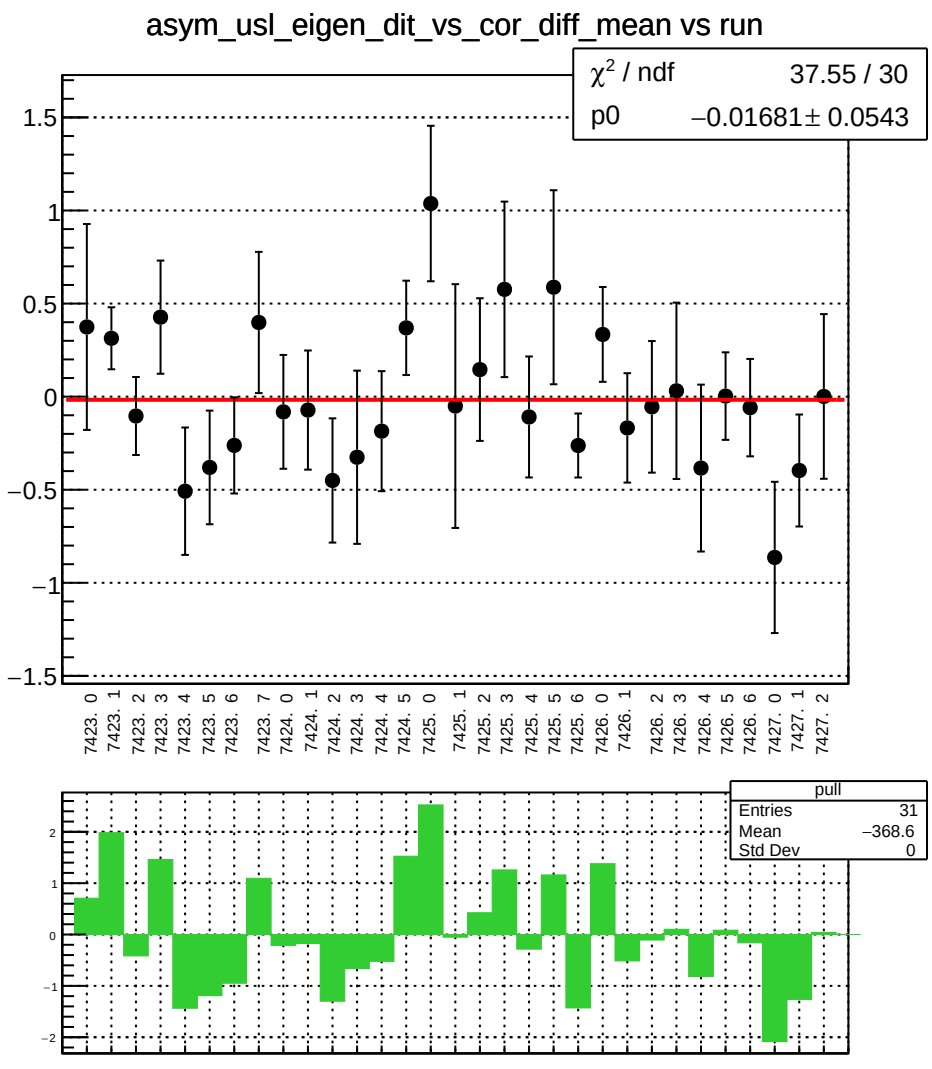


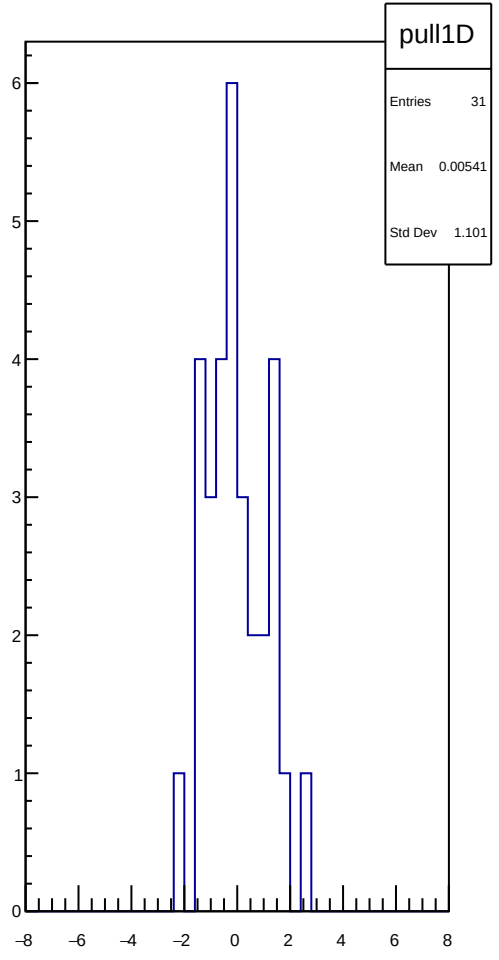


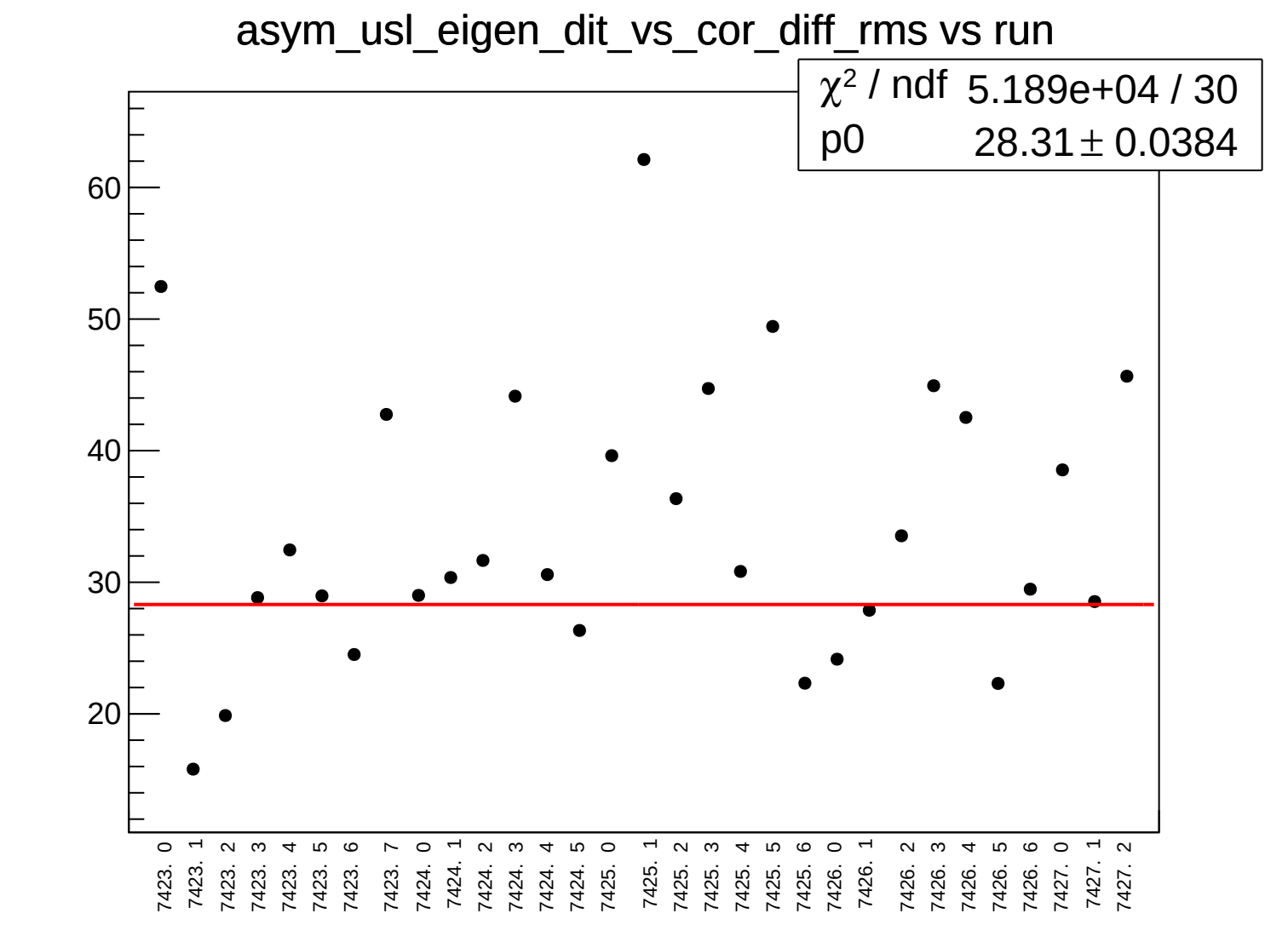

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.166e+04 / 30
p0 46.33 ± 0.0617
80
70
60
50
40
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

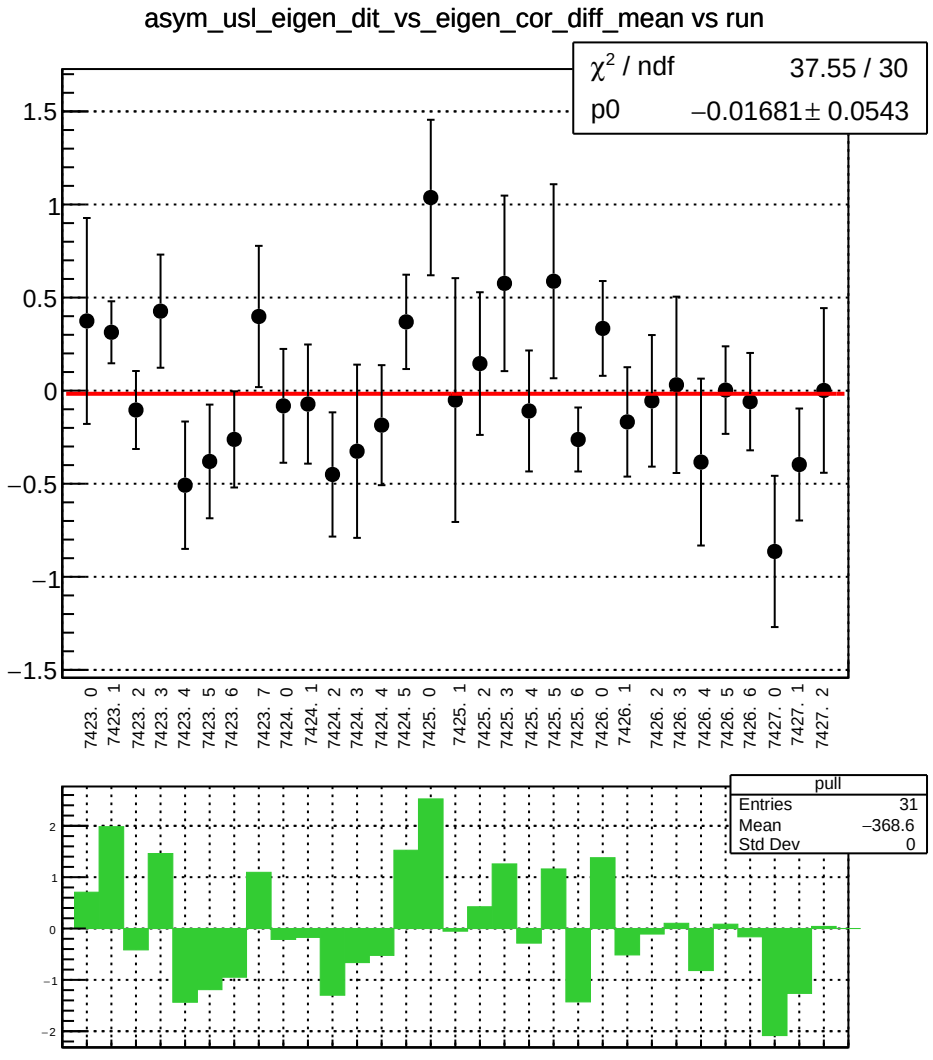

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 37.9 / 30
p0 1.911e−06 ± 1.137e−06
20
15
10
5
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 30.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.02583
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

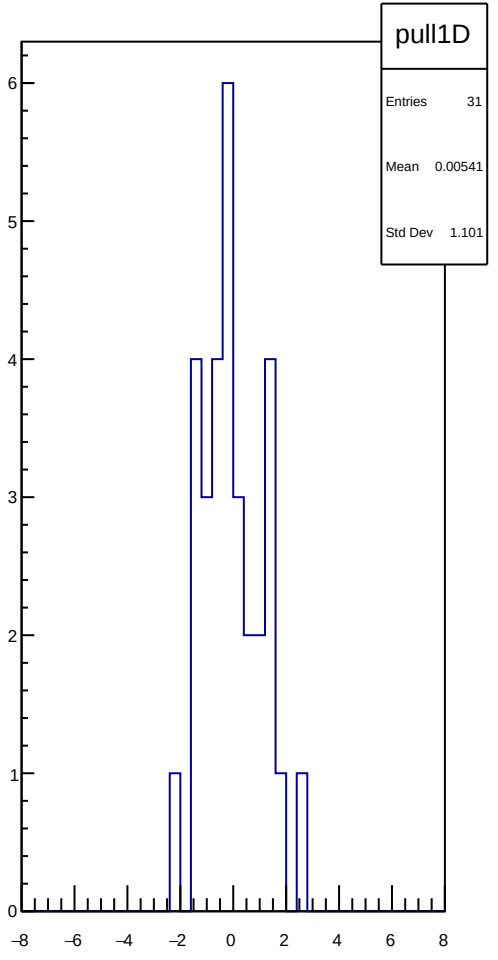

asym_usl_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 910.6 / 30
p0 0.00062 ± 8.041e–07
0.68
0.66
0.64
0.62
0.6
0.58
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

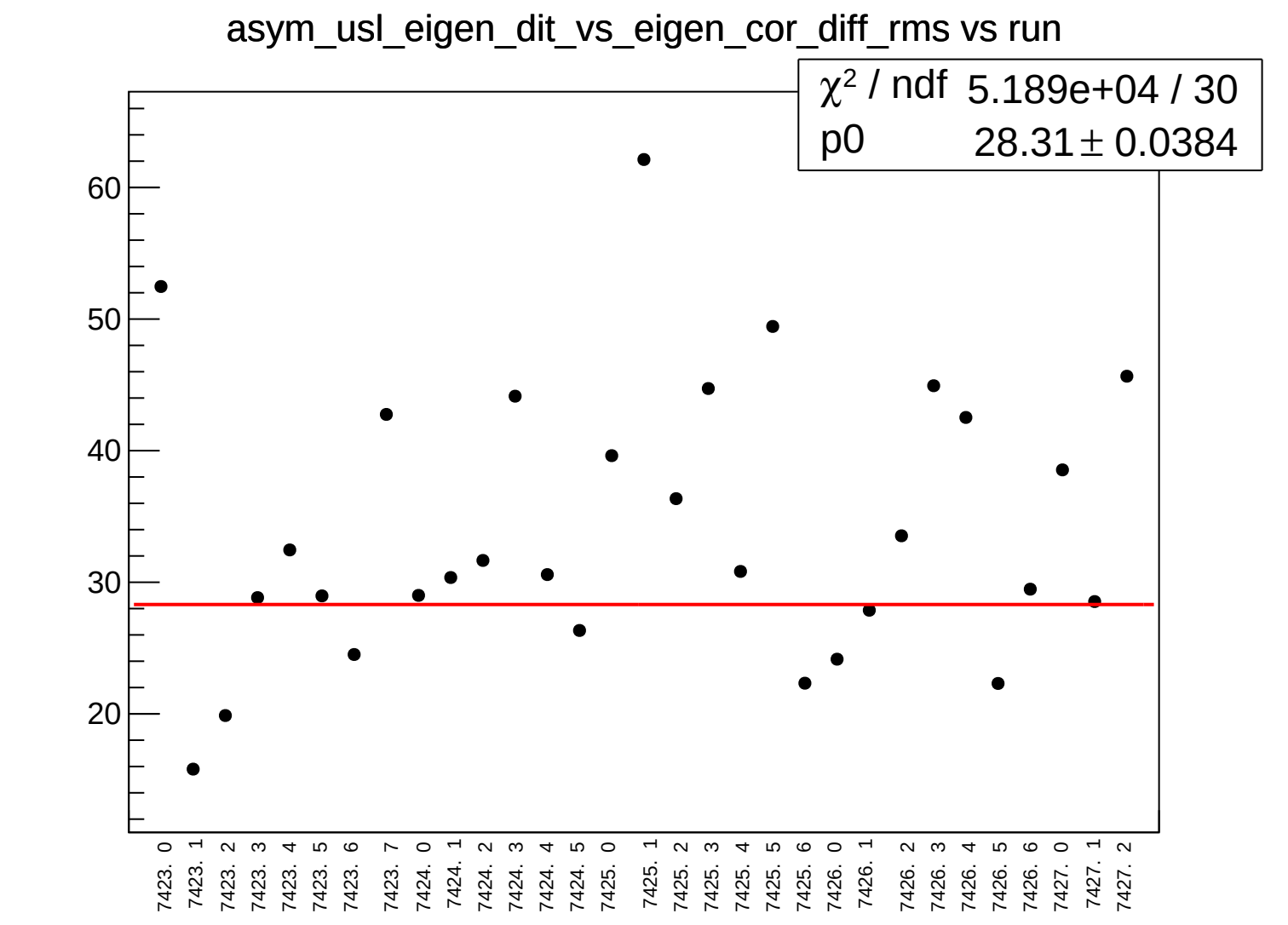

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.55 / 30
p0 −0.01681 ± 0.0543
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −368.6
Std Dev 0
2
1
0
−1
−2

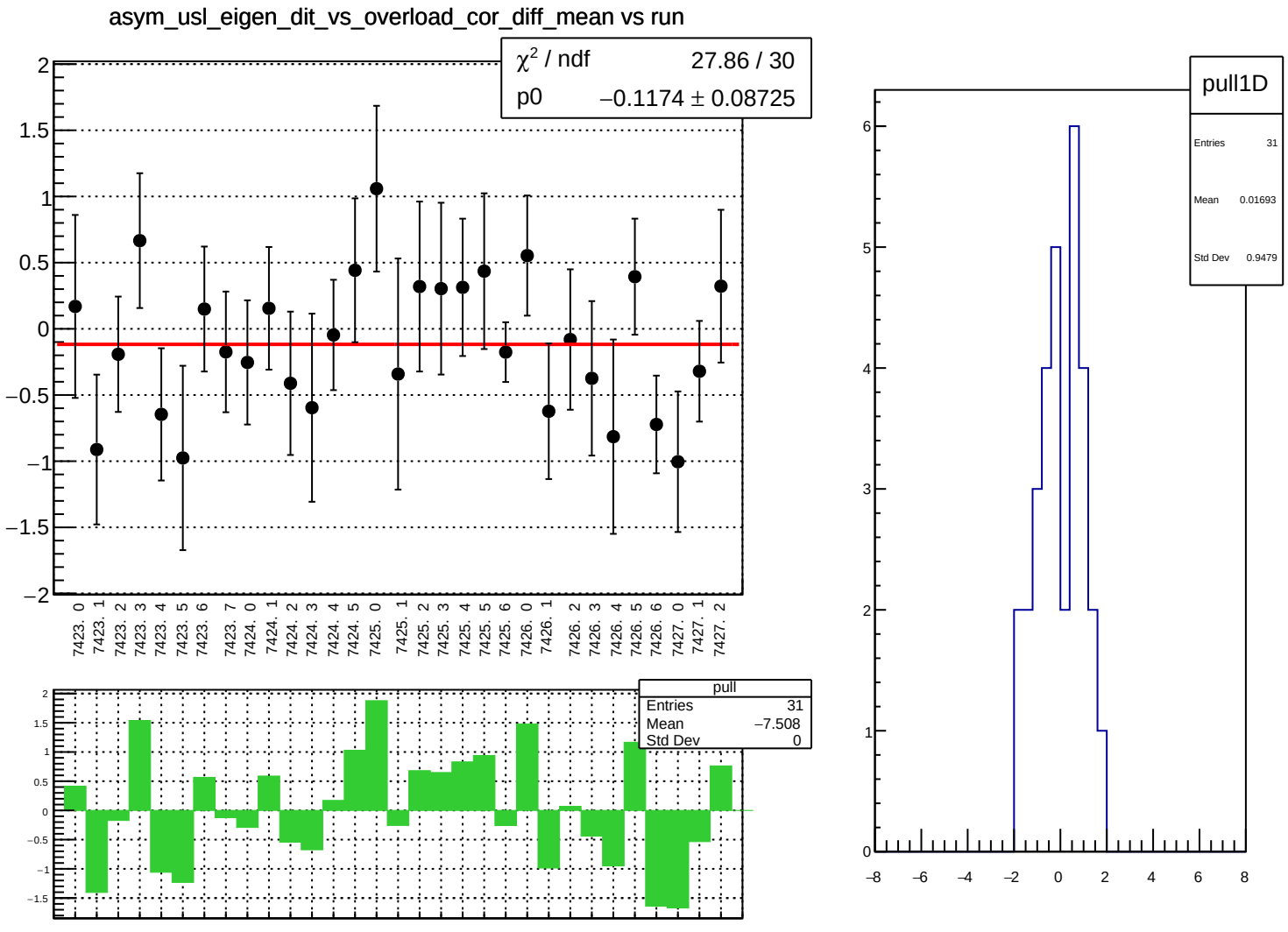

pull1D
Entries 31
Mean 0.00541
Std Dev 1.101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

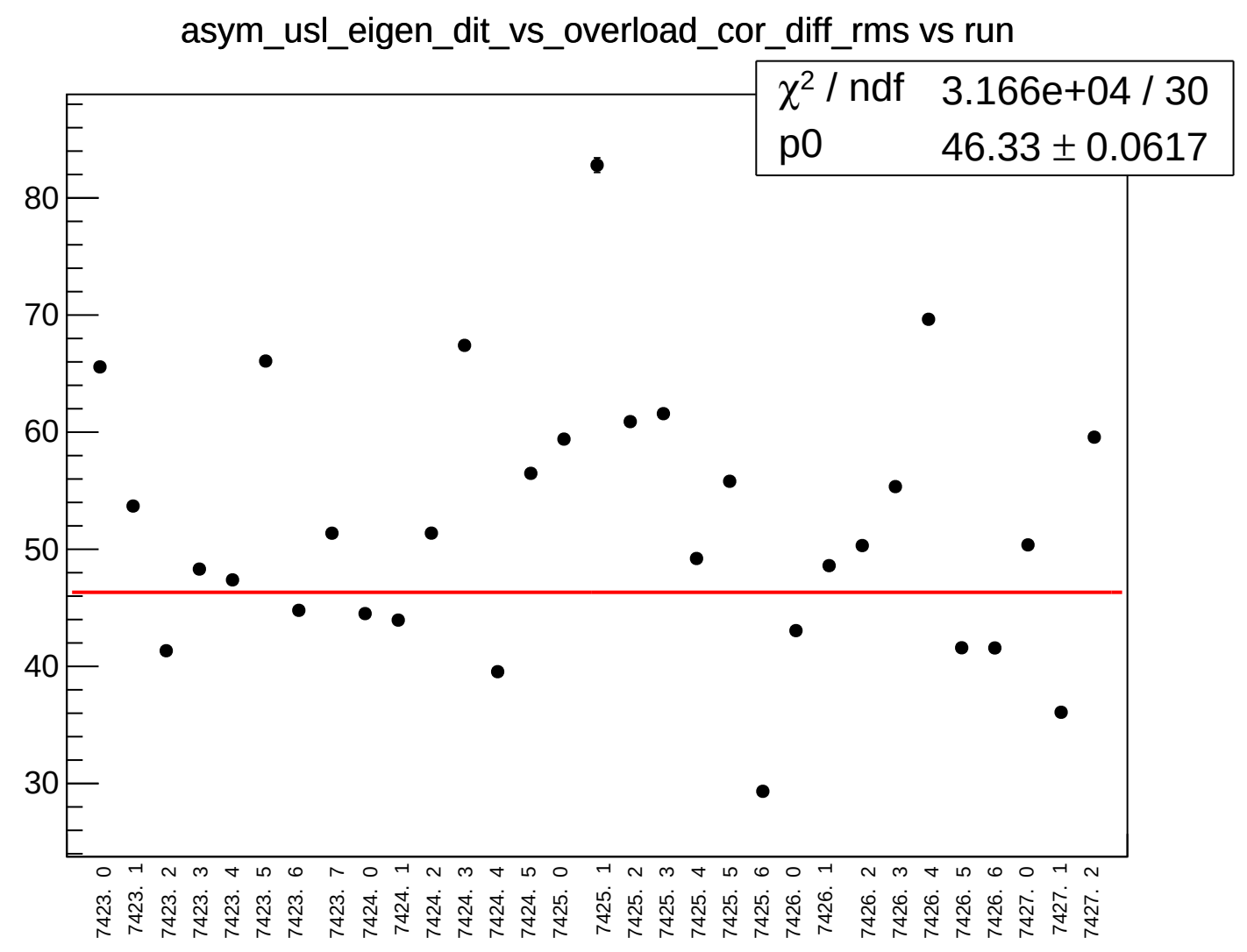

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.189e+04 / 30
p0 28.31 ± 0.0384
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

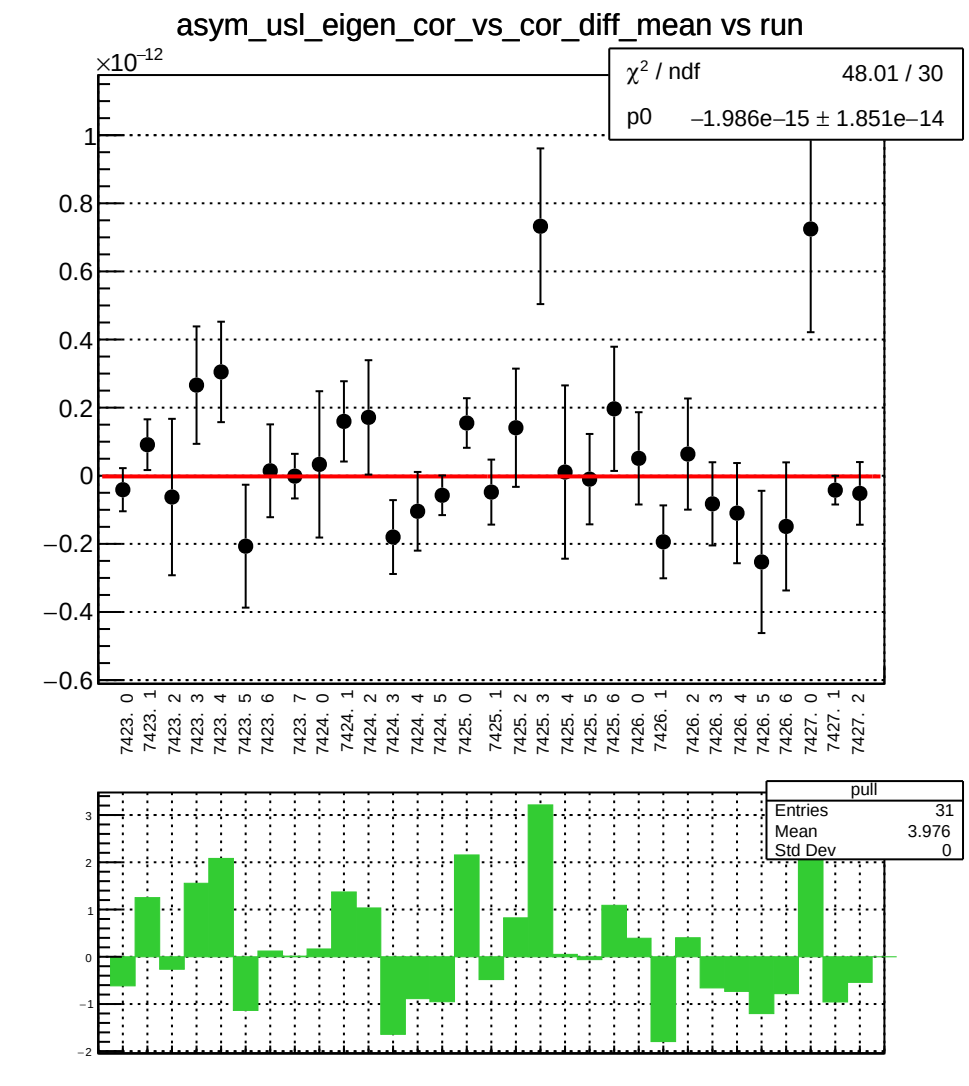

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.55 / 30
p0 −0.01681 ± 0.0543
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −368.6
Std Dev 0
2
1
0
−1
−2

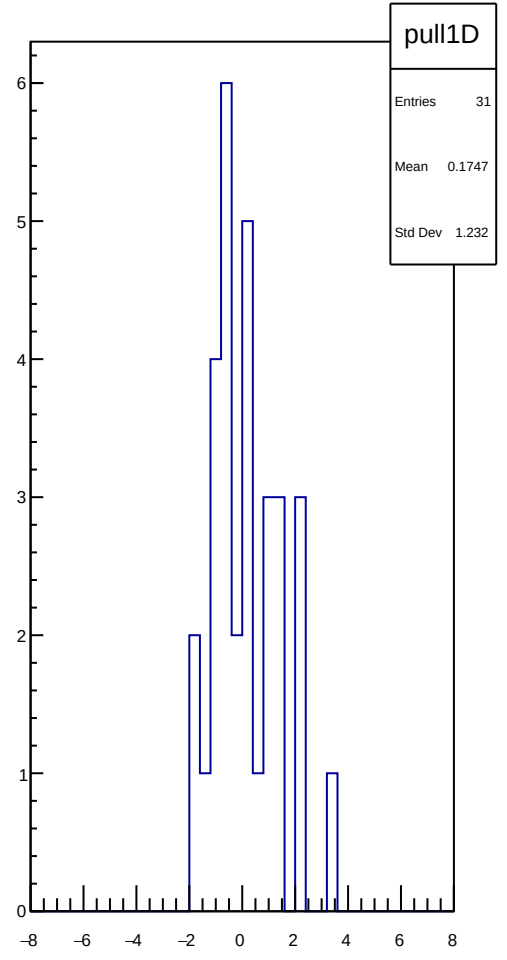

pull1D
Entries 31
Mean 0.00541
Std Dev 1.101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

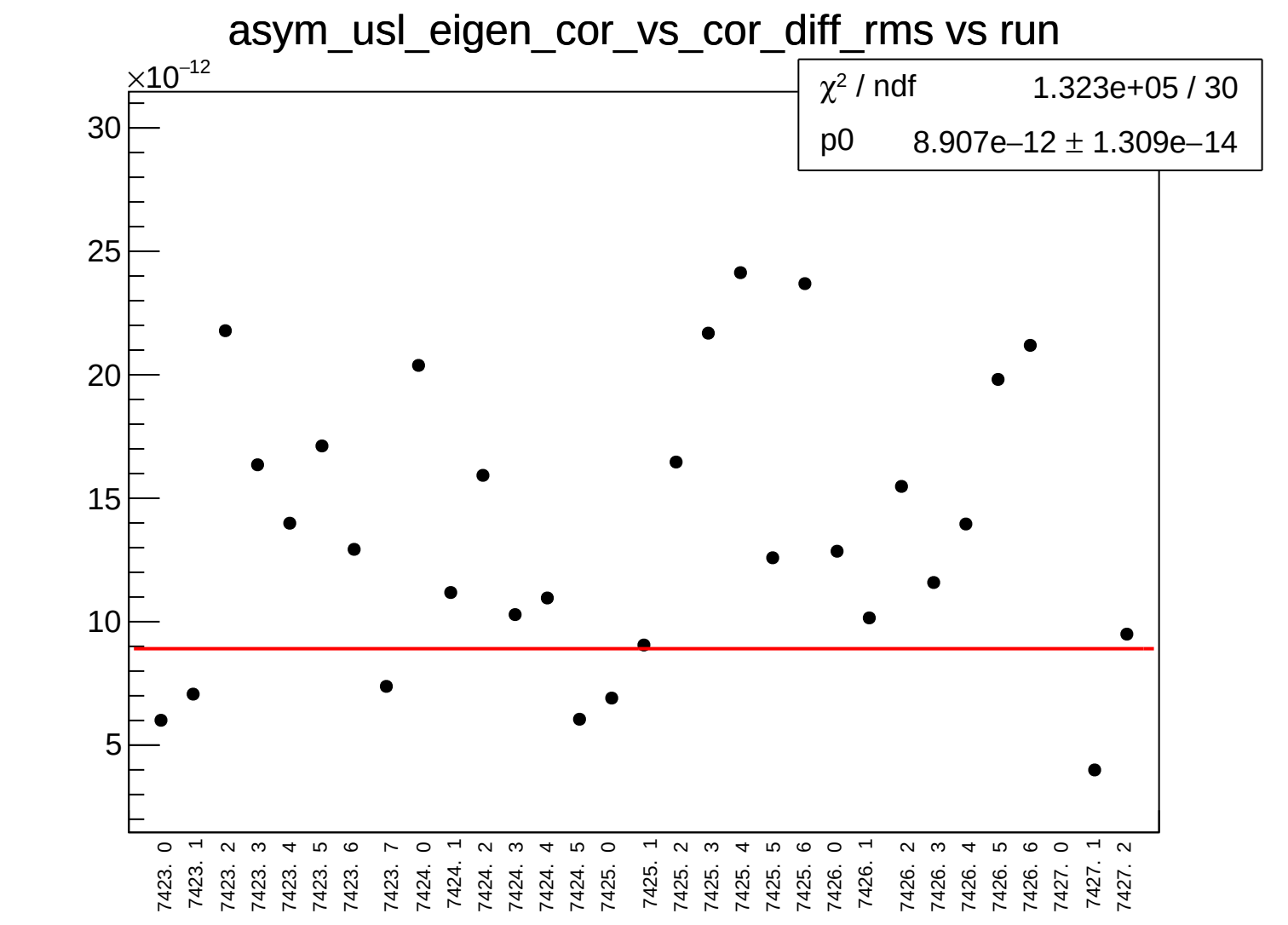

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.189e+04 / 30
p0 28.31 ± 0.0384
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

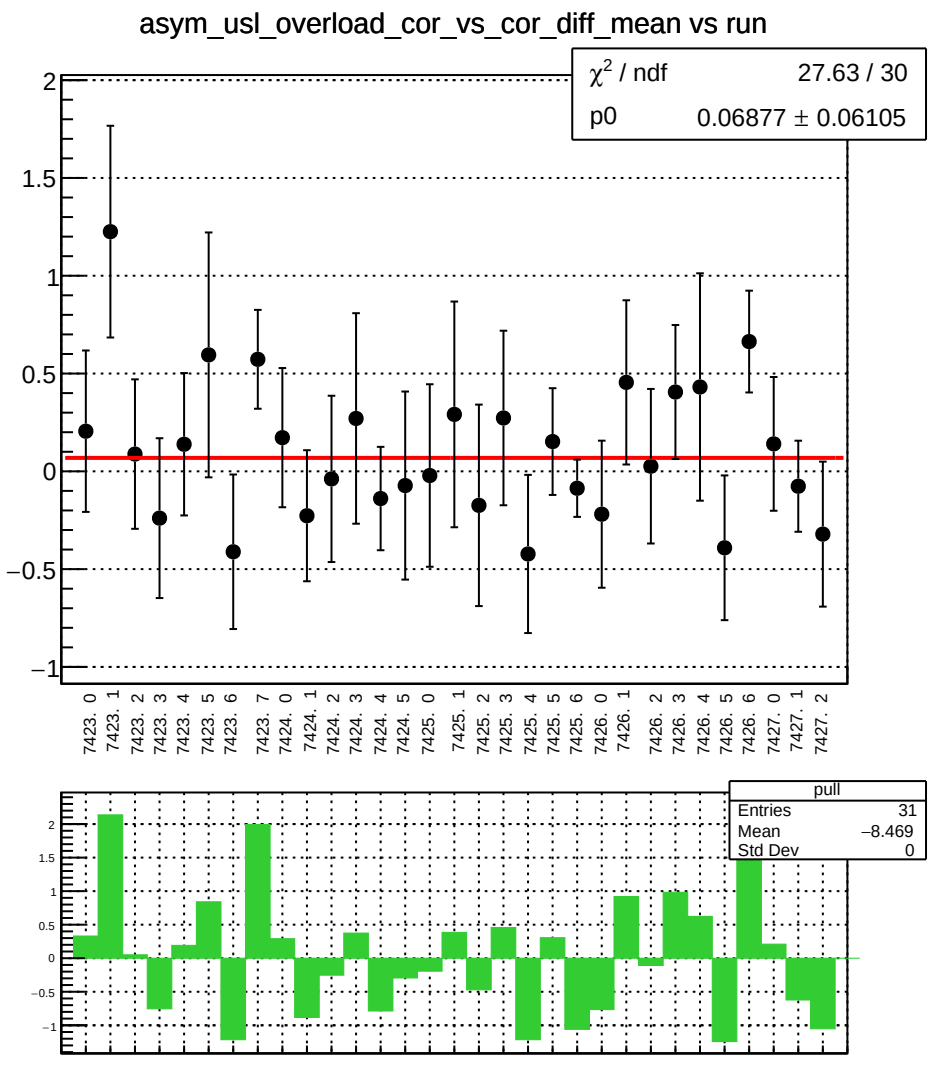

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 27.86 / 30
p0 −0.1174 ± 0.08725
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −7.508
Std Dev 0
pull1D
Entries 31
Mean 0.01693
Std Dev 0.9479

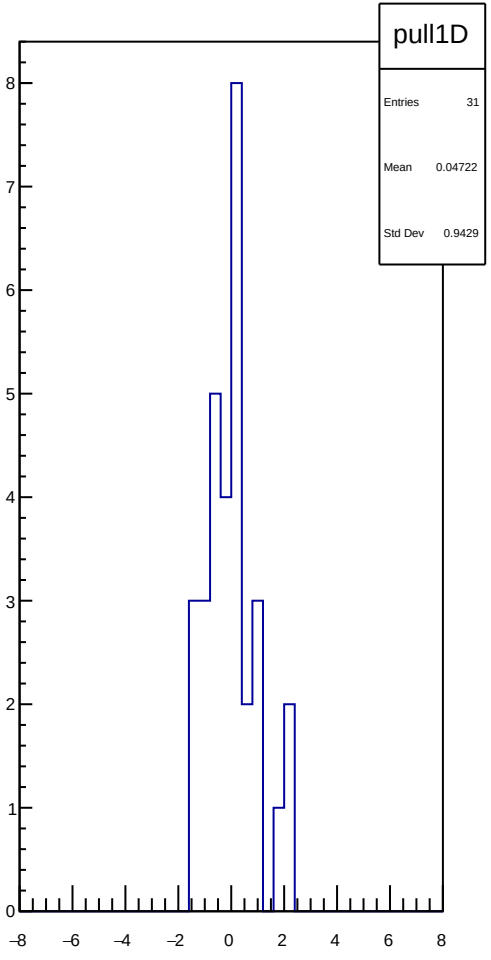

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.166e+04 / 30
p0 46.33 ± 0.0617
80
70
60
50
40
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

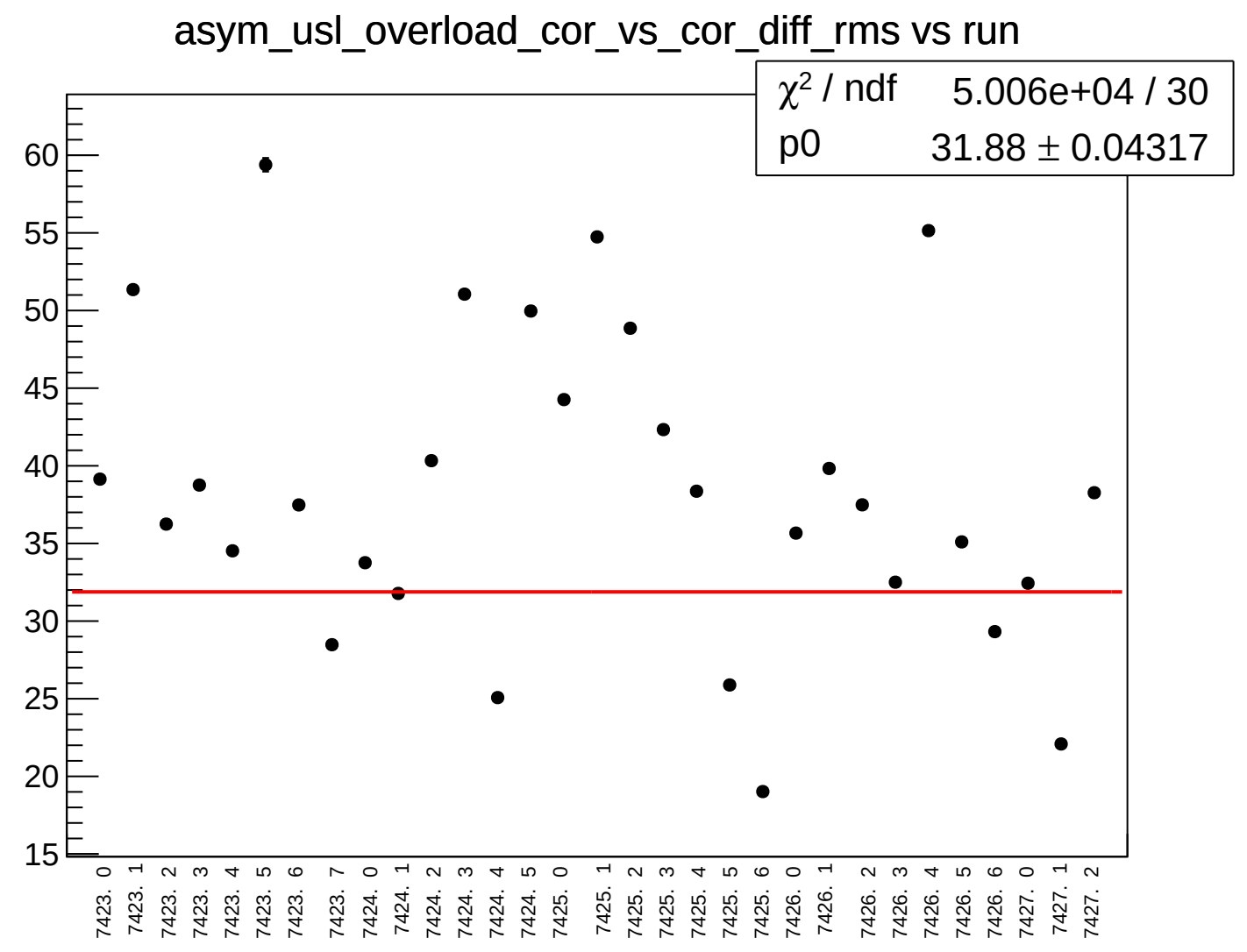

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.01 / 30
p0 −1.986e−15 ± 1.851e−14
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 3.976
Std Dev 0
3
2
1
0
−1
−2

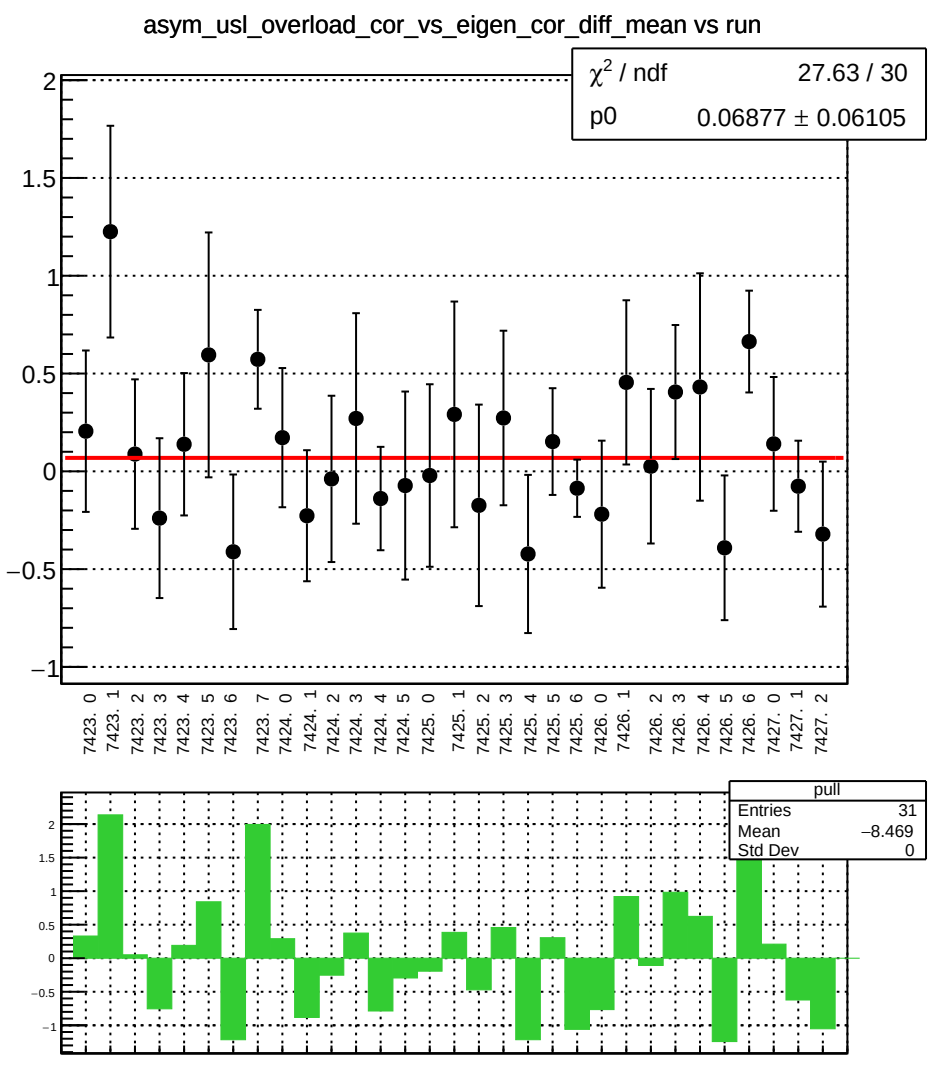

pull1D
Entries 31
Mean 0.1747
Std Dev 1.232
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

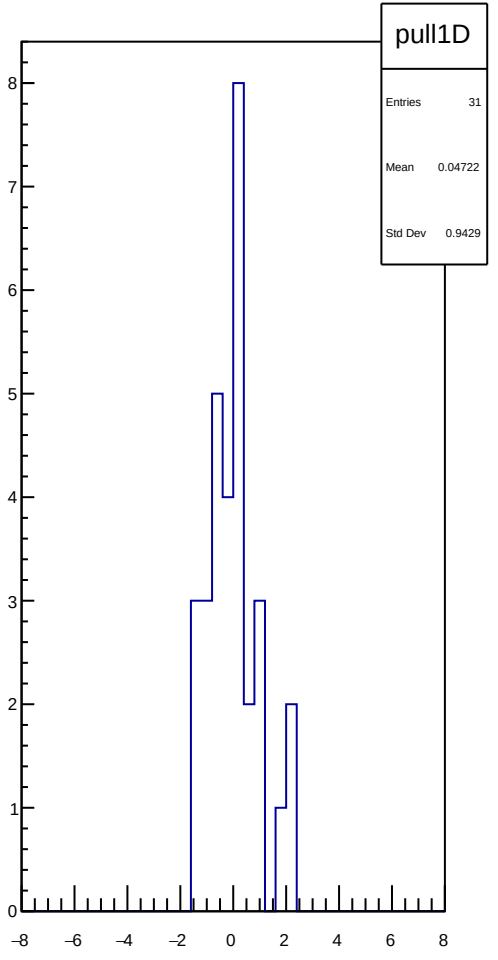

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.323e+05 / 30
p0 8.907e−12 ± 1.309e−14
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

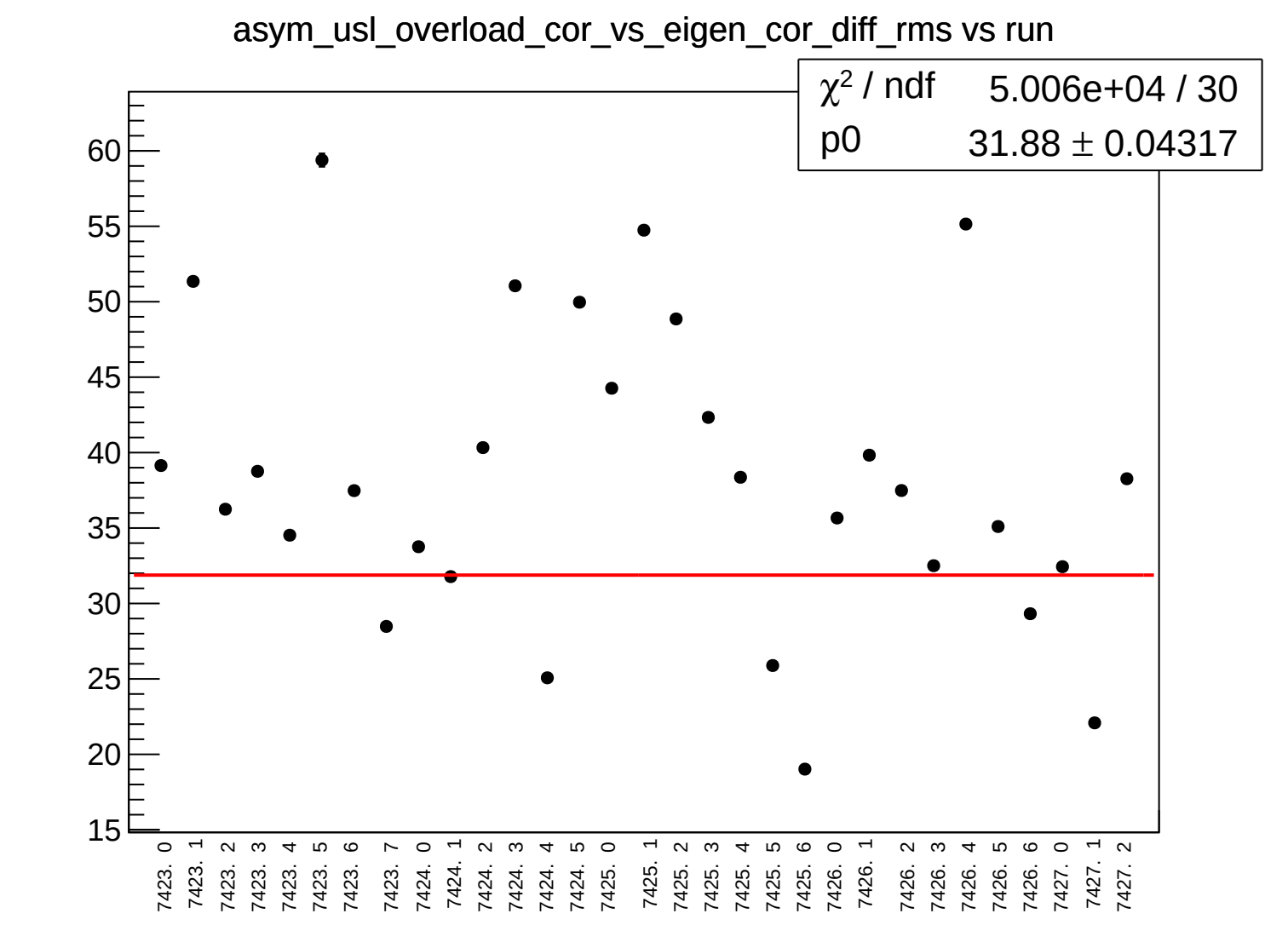

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 27.63 / 30
p0 0.06877 ± 0.06105
pull
Entries 31
Mean −8.469
Std Dev 0

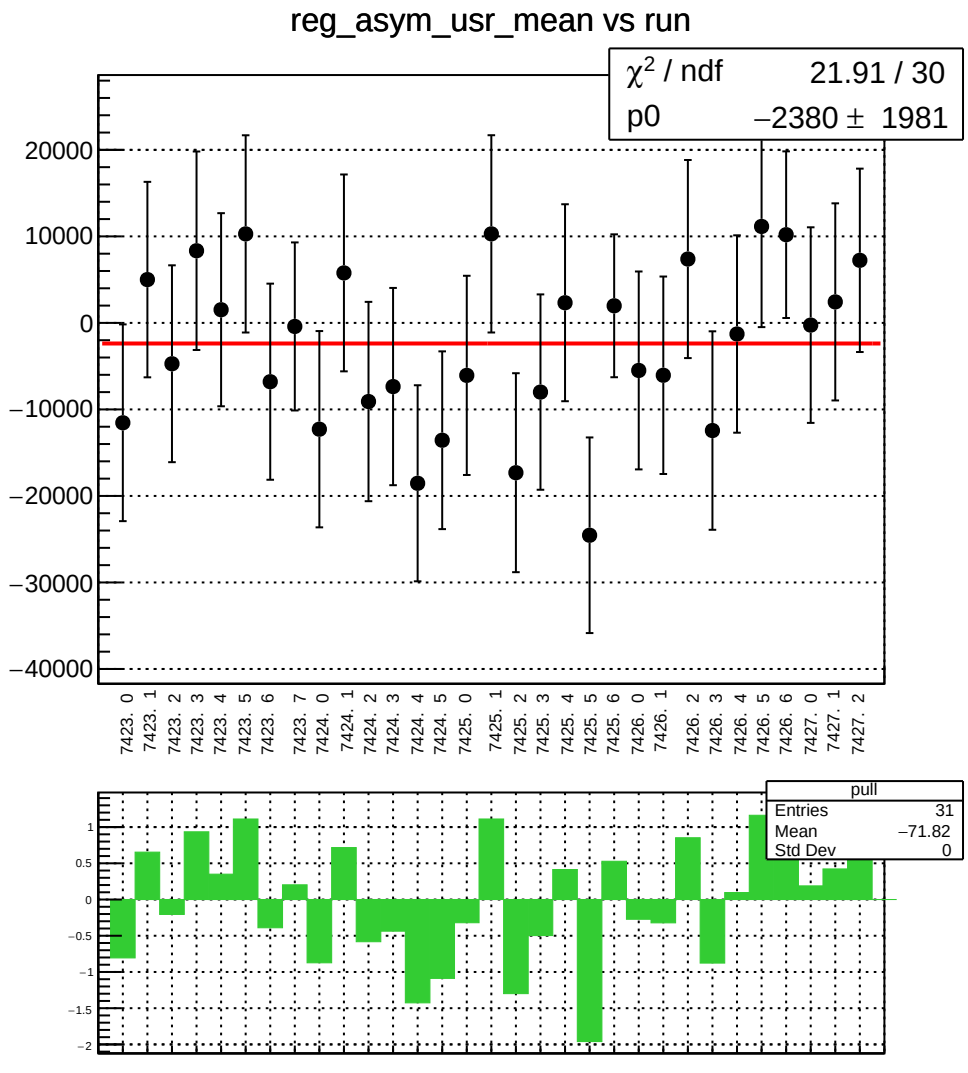

pull1D
Entries 31
Mean 0.04722
Std Dev 0.9429

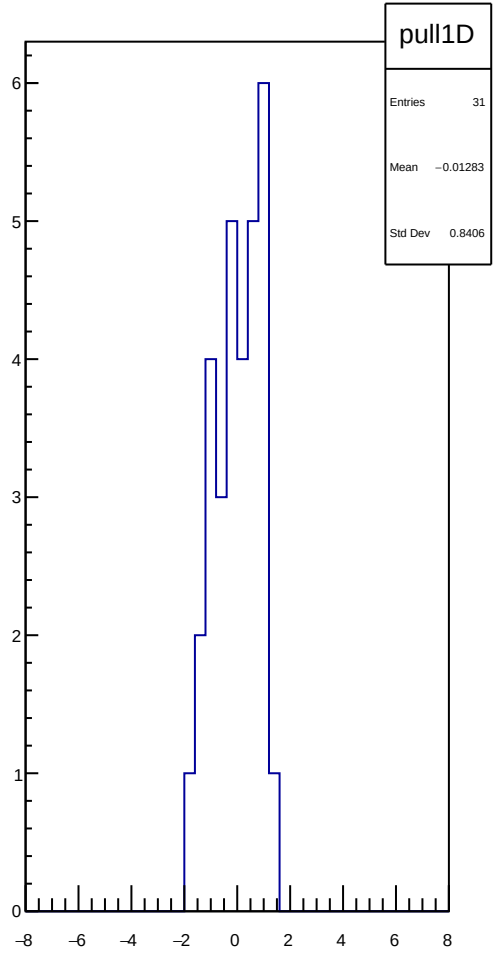

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.006e+04 / 30
p0 31.88 ± 0.04317
60
55
50
45
40
35
30
25
20
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

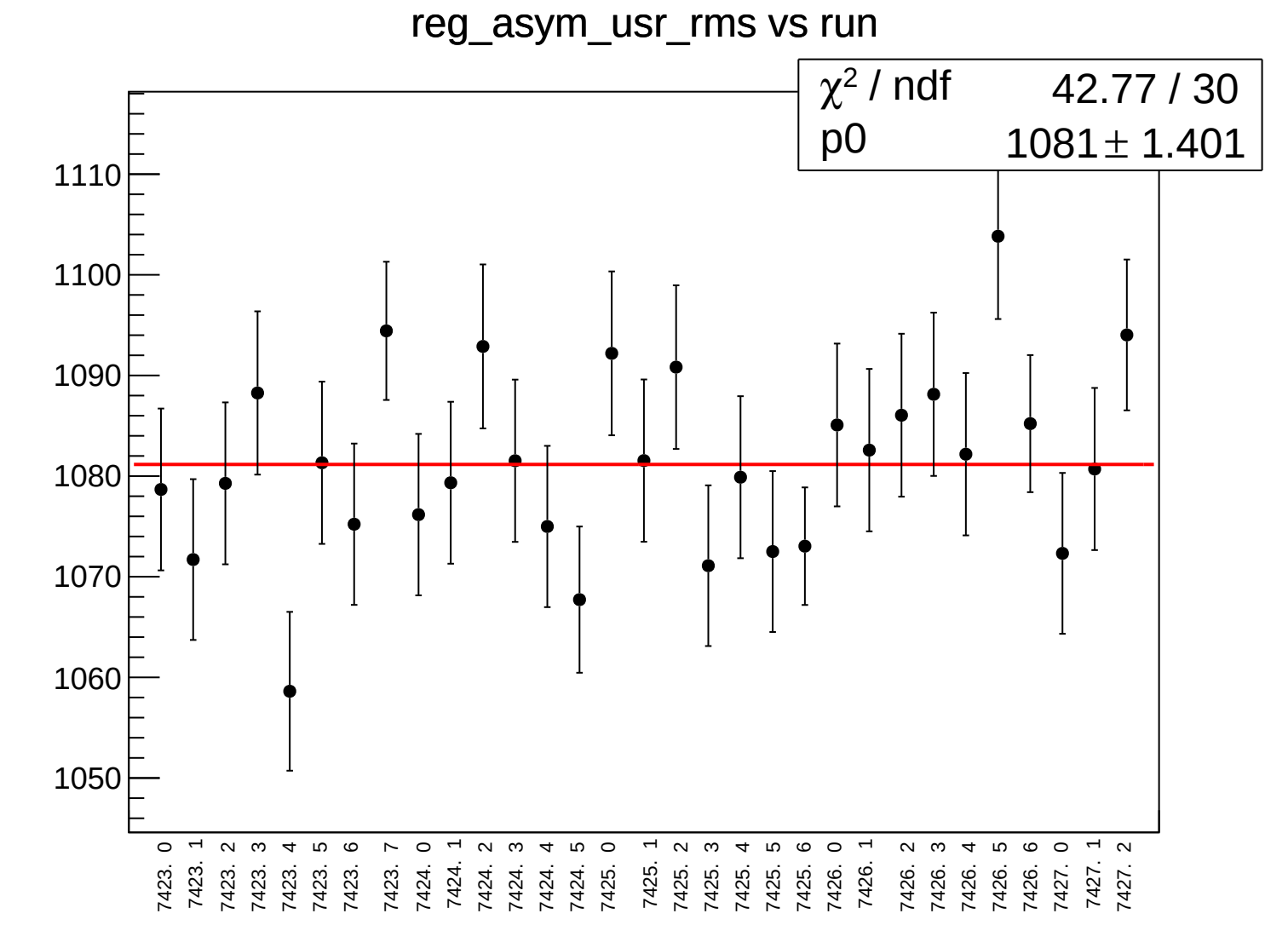

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.63 / 30
p0 0.06877 ± 0.06105
2
1.5
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −8.469
Std Dev 0

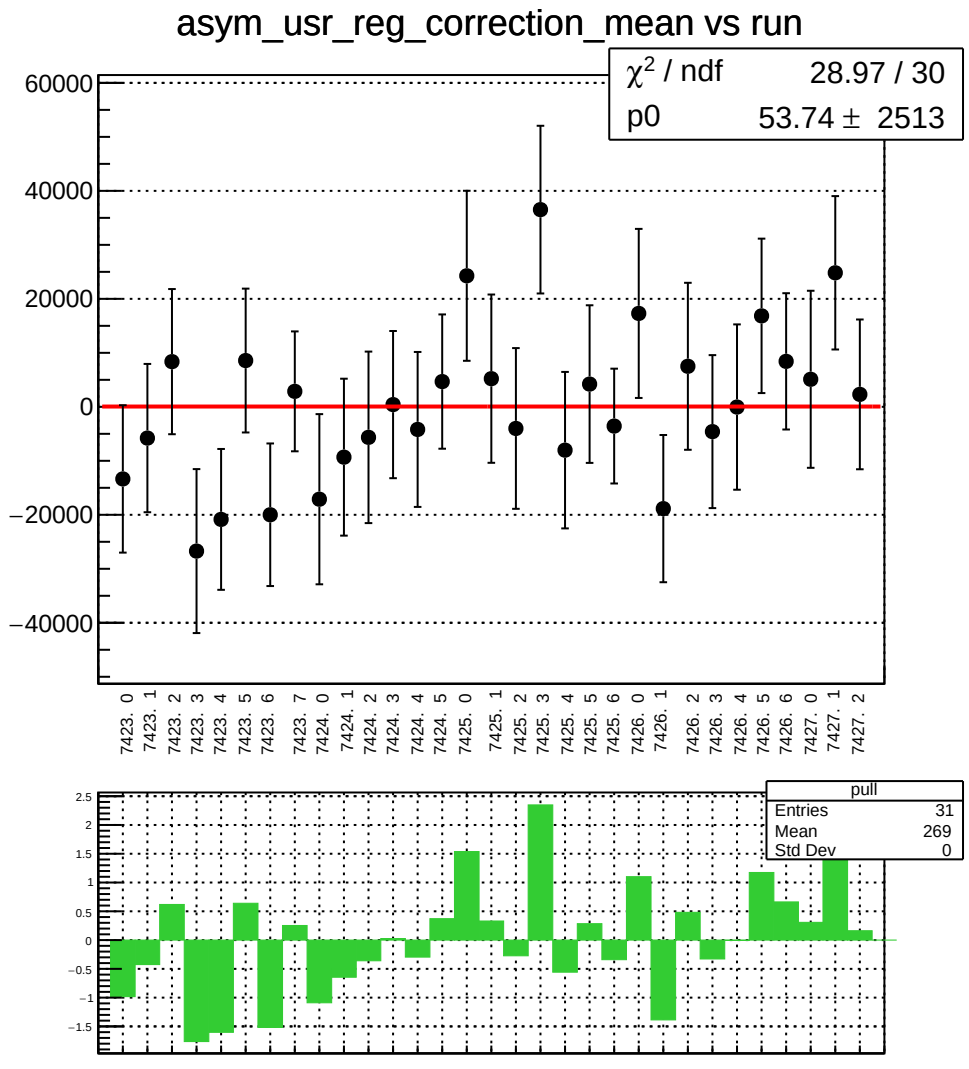

pull1D
Entries 31
Mean 0.04722
Std Dev 0.9429
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

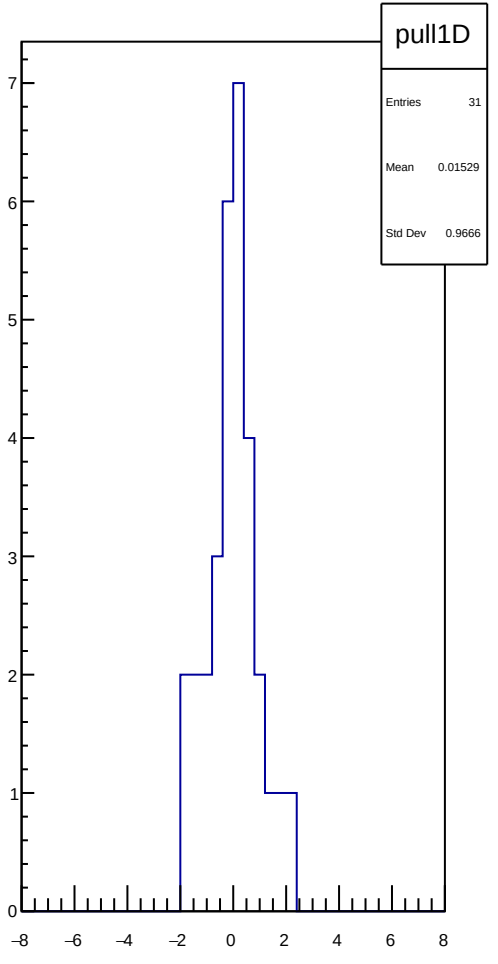

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.006e+04 / 30
p0 31.88 ± 0.04317
60
55
50
45
40
35
30
25
20
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

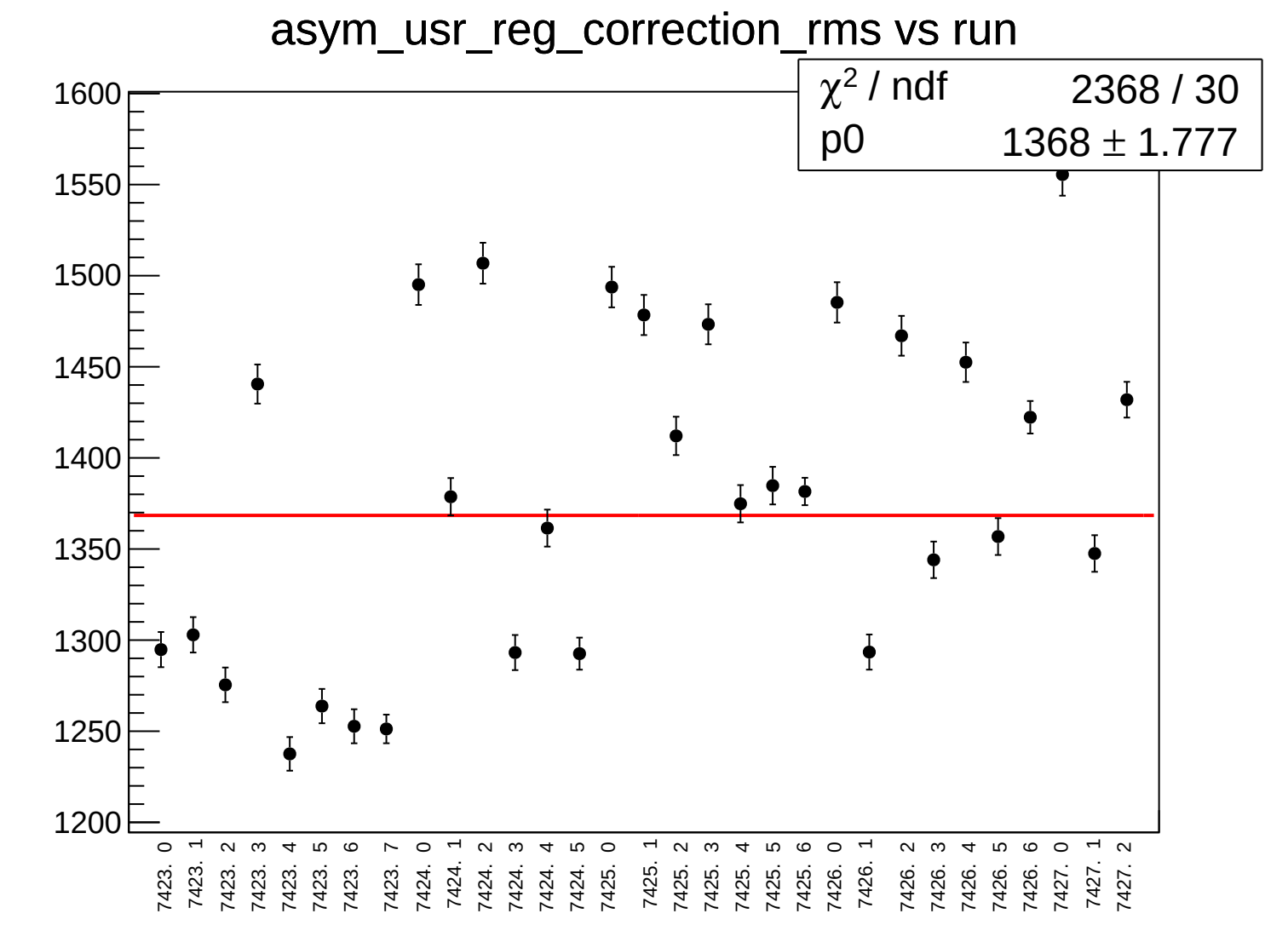

reg_asym_usr_mean vs run
χ² / ndf 21.91 / 30
p0 −2380 ± 1981
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −71.82
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

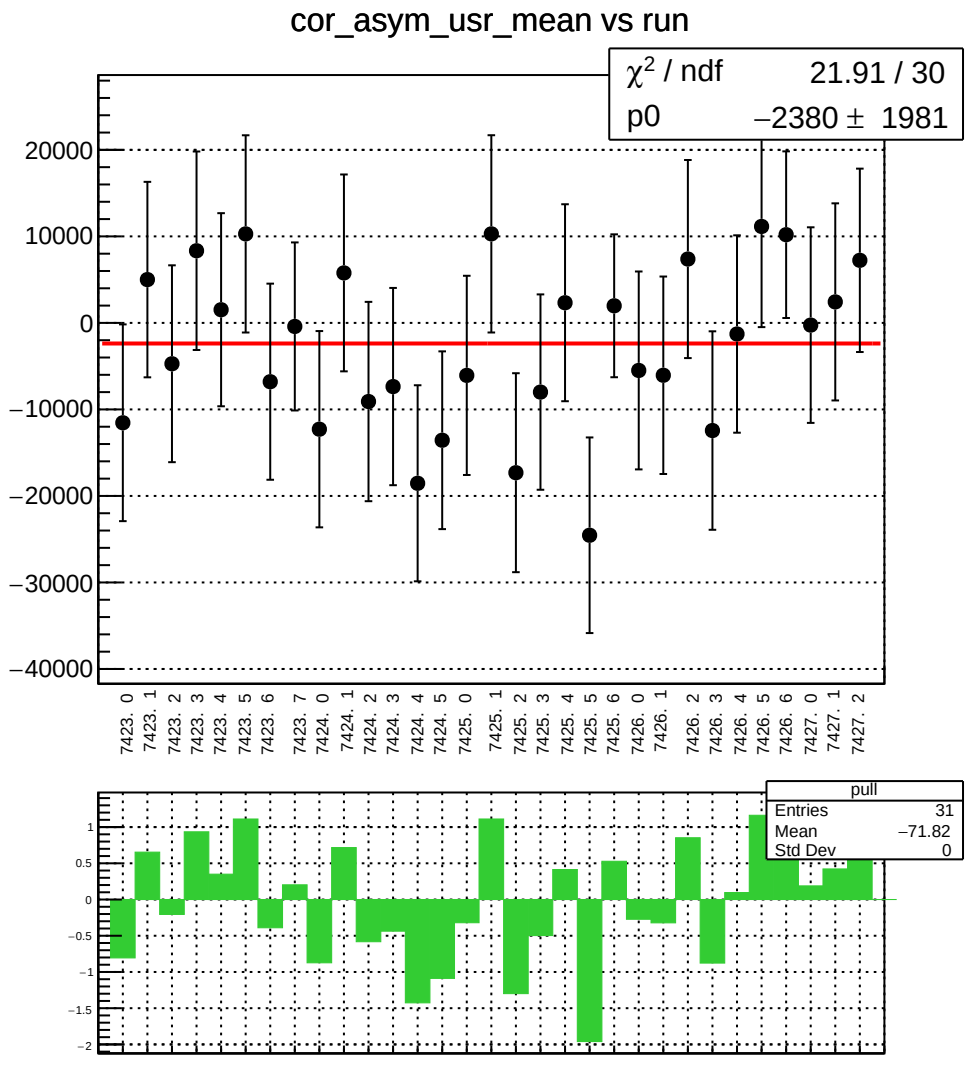

pull1D
Entries 31
Mean −0.01283
Std Dev 0.8406
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

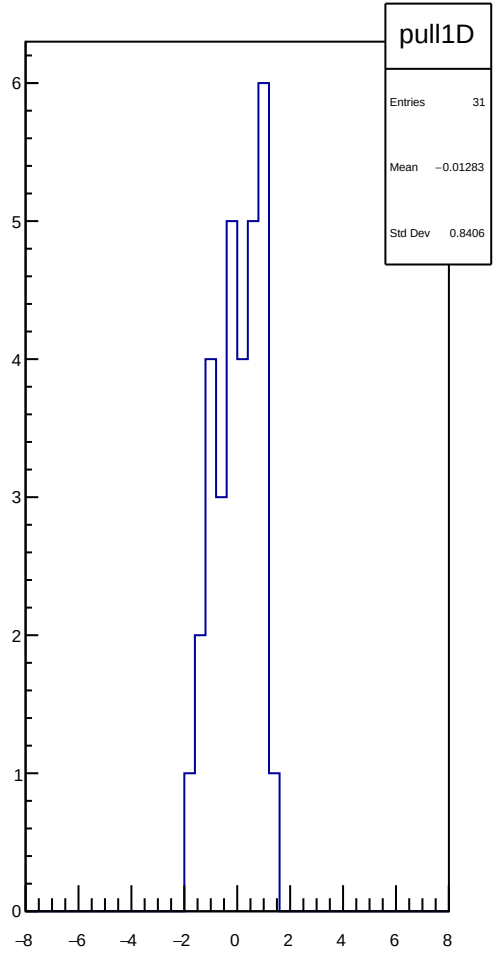

reg_asym_usr_rms vs run
χ² / ndf 42.77 / 30
p0 1081 ± 1.401
1110
1100
1090
1080
1070
1060
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

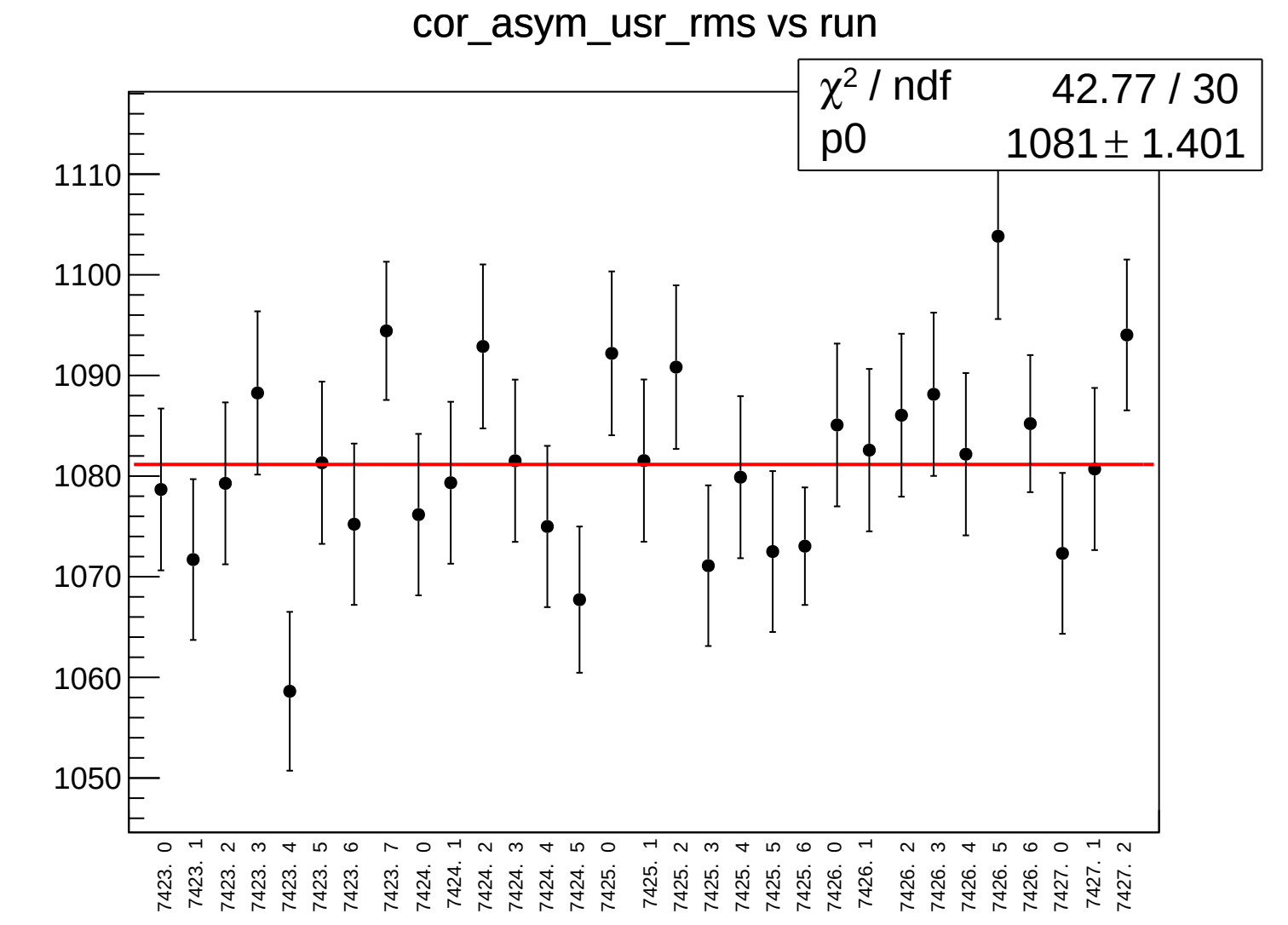

asym_usr_reg_correction_mean vs run
χ² / ndf 28.97 / 30
p0 53.74 ± 2513
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 269
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

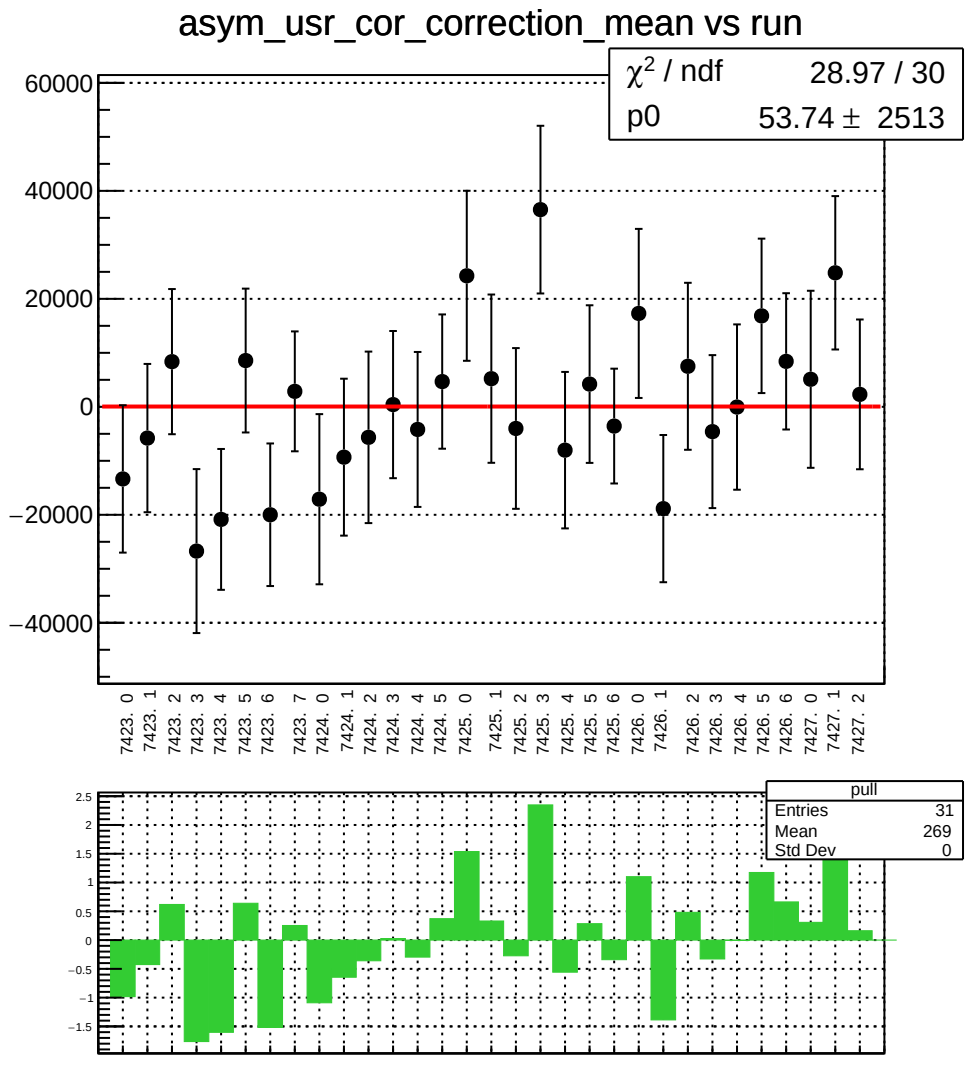

pull1D
Entries 31
Mean 0.01529
Std Dev 0.9666
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

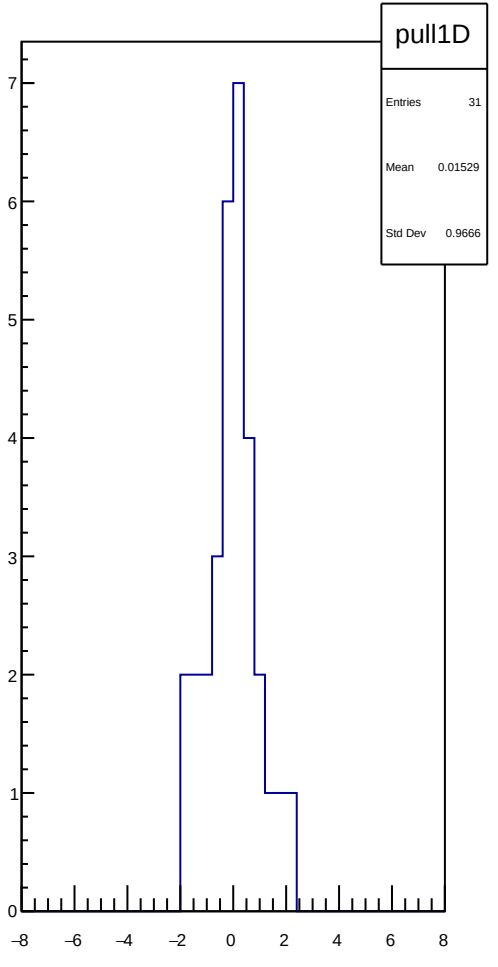

asym_usr_reg_correction_rms vs run
χ² / ndf 2368 / 30
p0 1368 ± 1.777
1600
1550
1500
1450
1400
1350
1300
1250
1200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

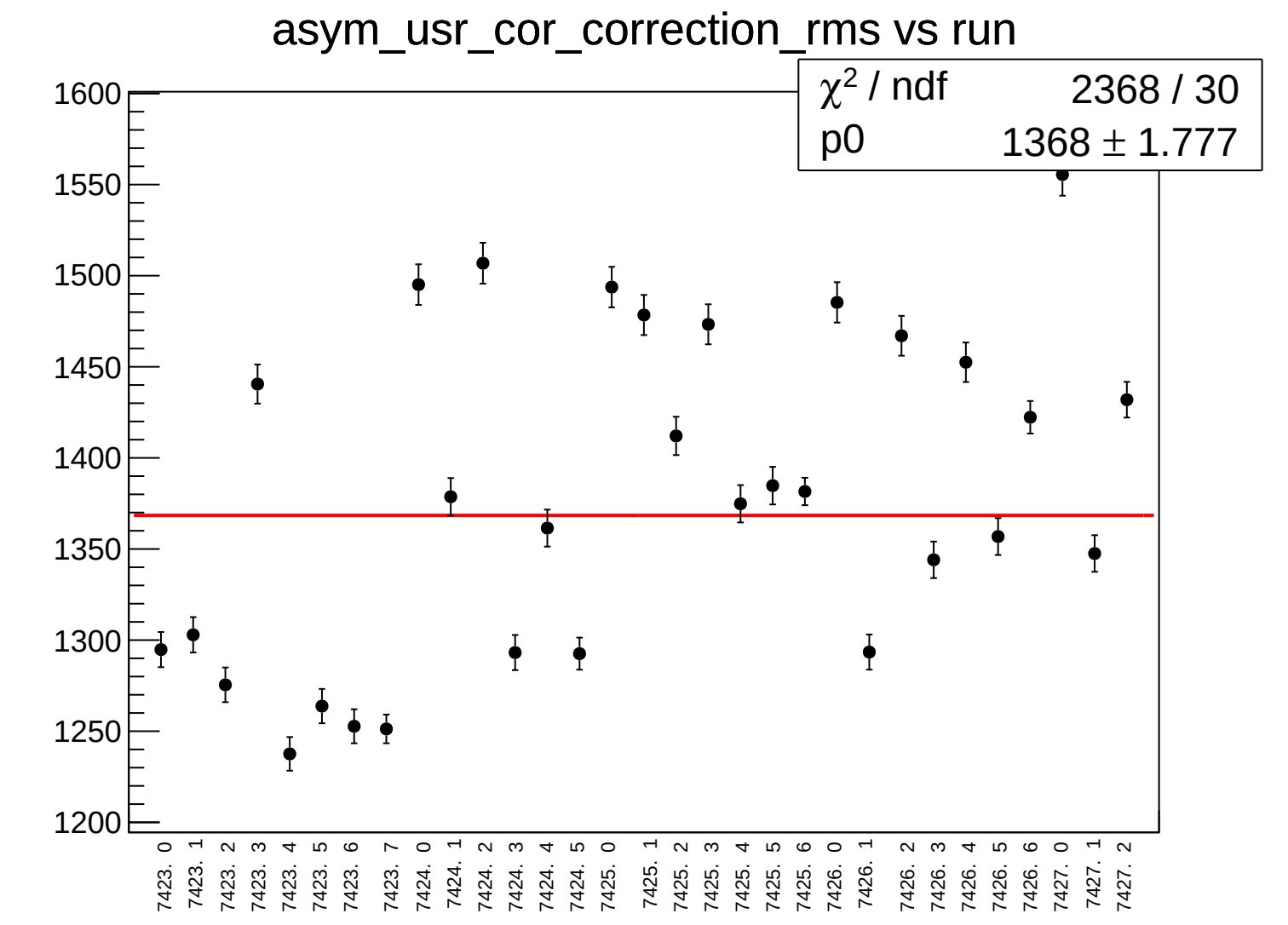

cor_asym_usr_mean vs run
χ² / ndf 21.91 / 30
p0 −2380 ± 1981
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −71.82
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

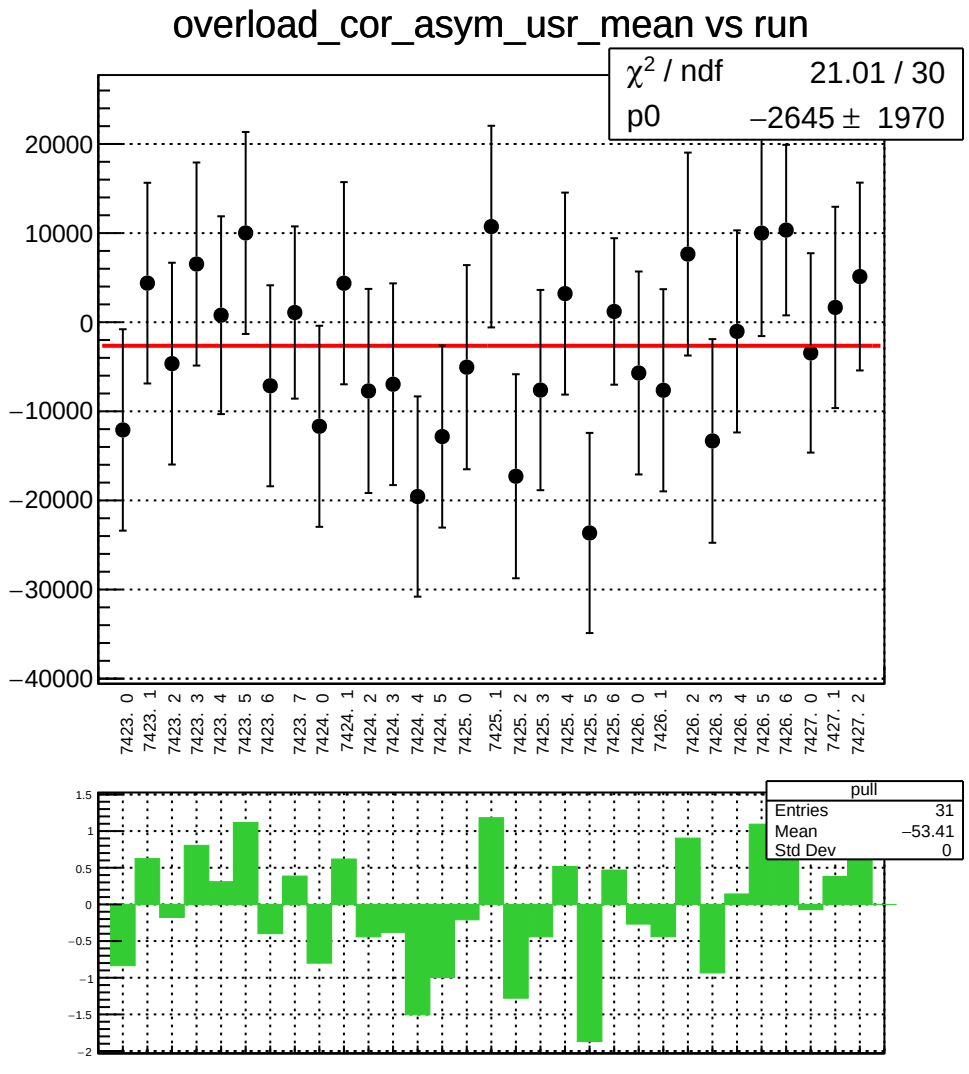

pull1D
Entries 31
Mean −0.01283
Std Dev 0.8406
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

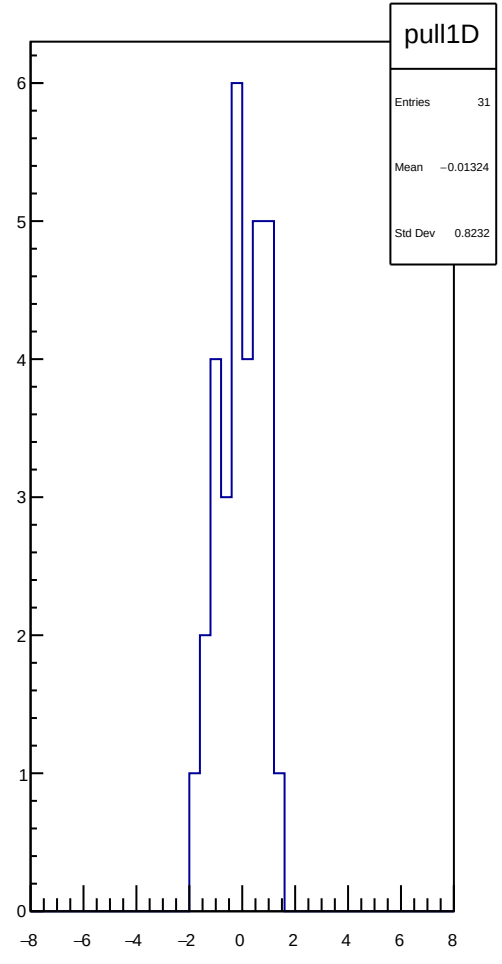

cor_asym_usr_rms vs run
χ² / ndf 42.77 / 30
p0 1081 ± 1.401
1110
1100
1090
1080
1070
1060
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

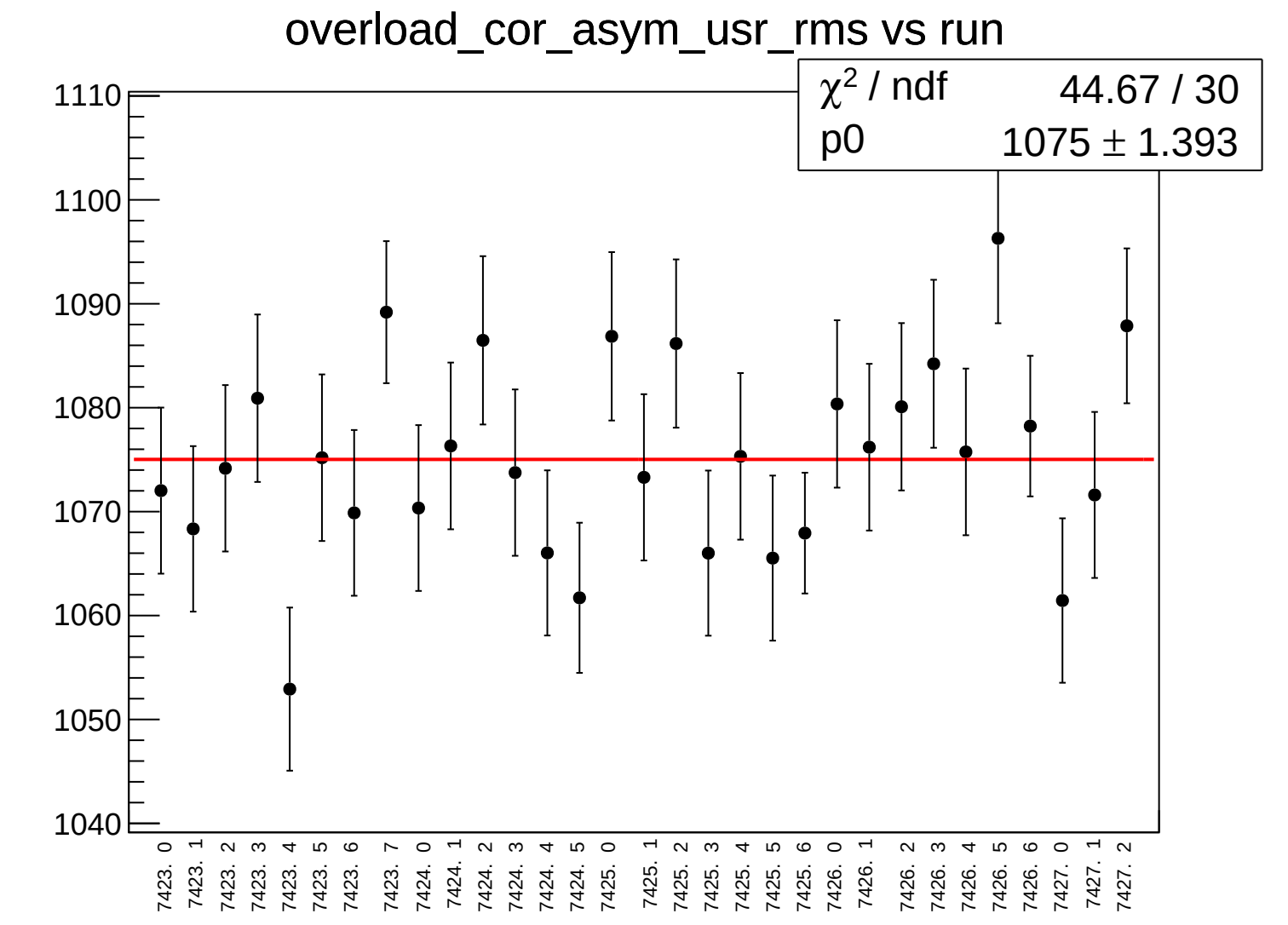

asym_usr_cor_correction_mean vs run
χ² / ndf 28.97 / 30
p0 53.74 ± 2513
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 269
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

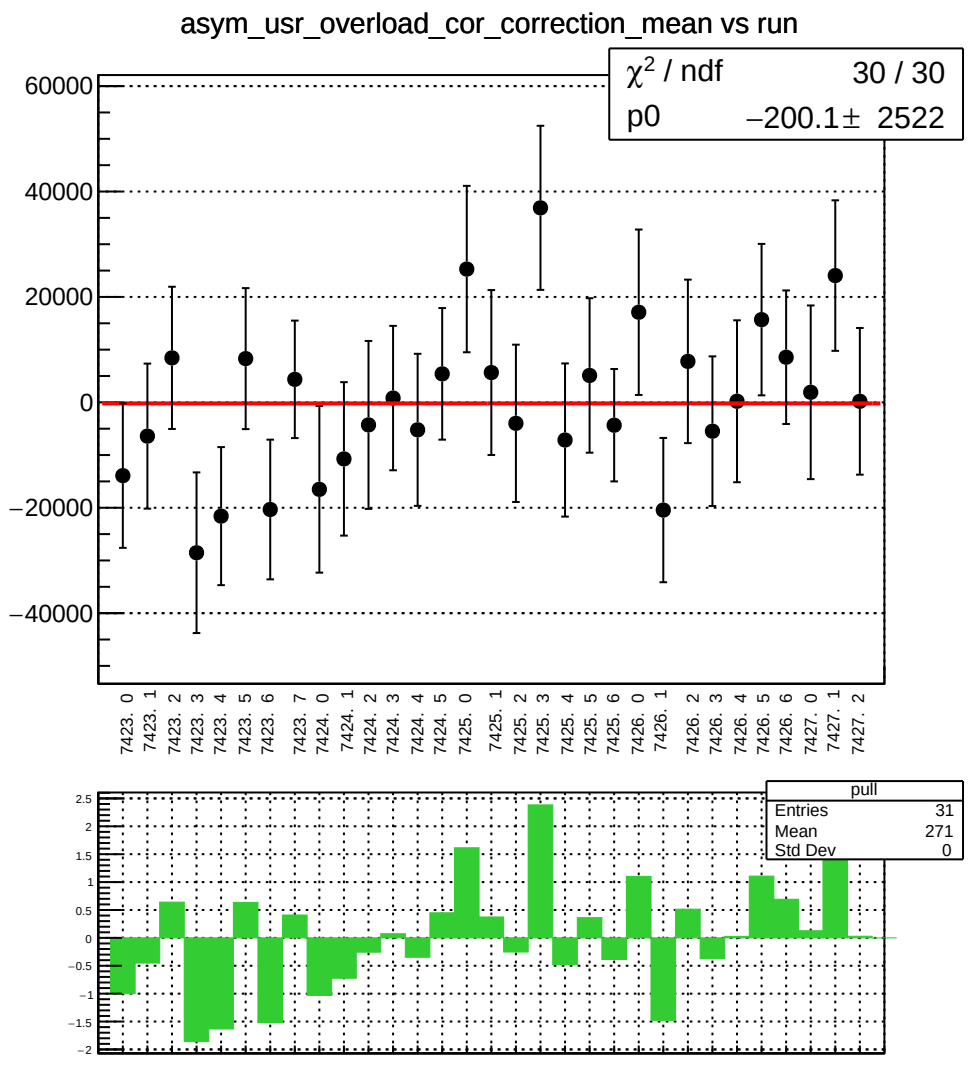

pull1D
Entries 31
Mean 0.01529
Std Dev 0.9666
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

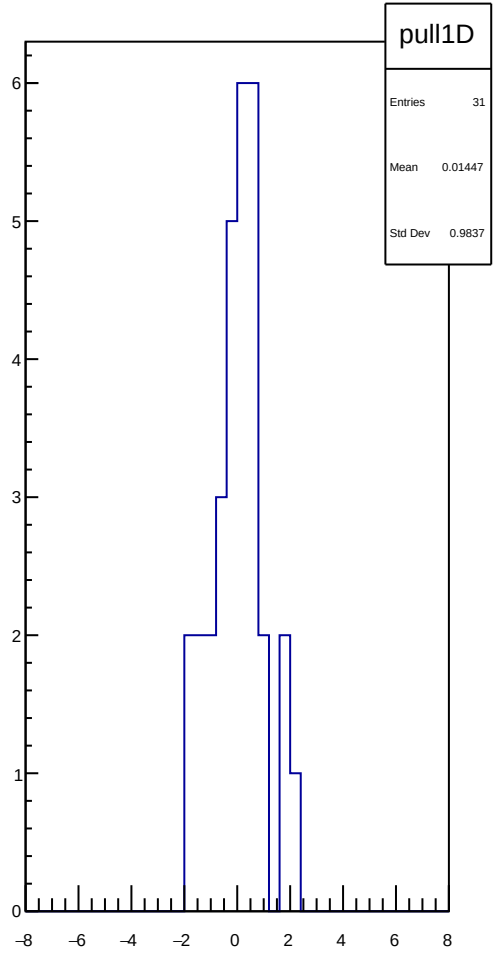

asym_usr_cor_correction_rms vs run
χ² / ndf 2368 / 30
p0 1368 ± 1.777
1600
1550
1500
1450
1400
1350
1300
1250
1200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

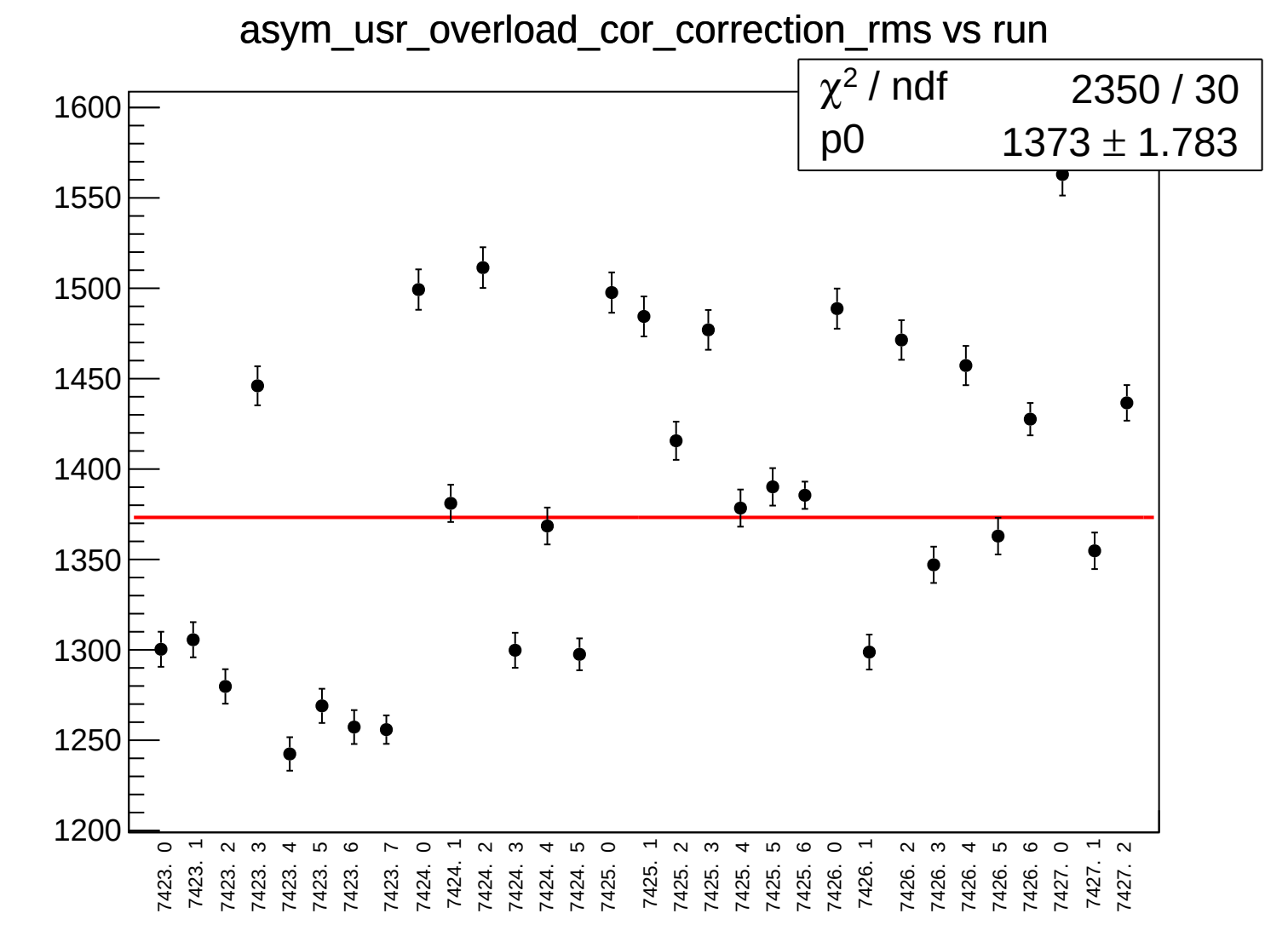

overload_cor_asym_usr_mean vs run
χ² / ndf 21.01 / 30
p0 −2645 ± 1970
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −53.41
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

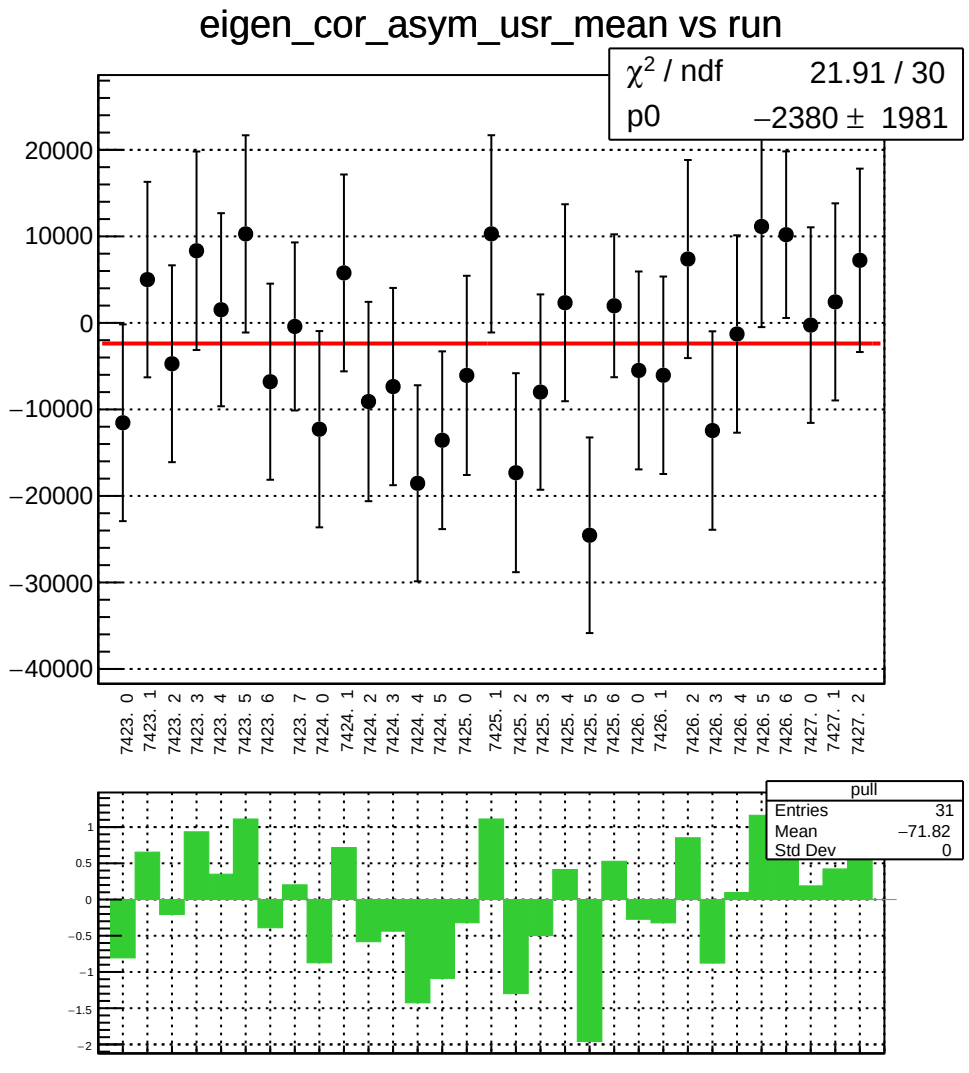

pull1D
Entries 31
Mean −0.01324
Std Dev 0.8232
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

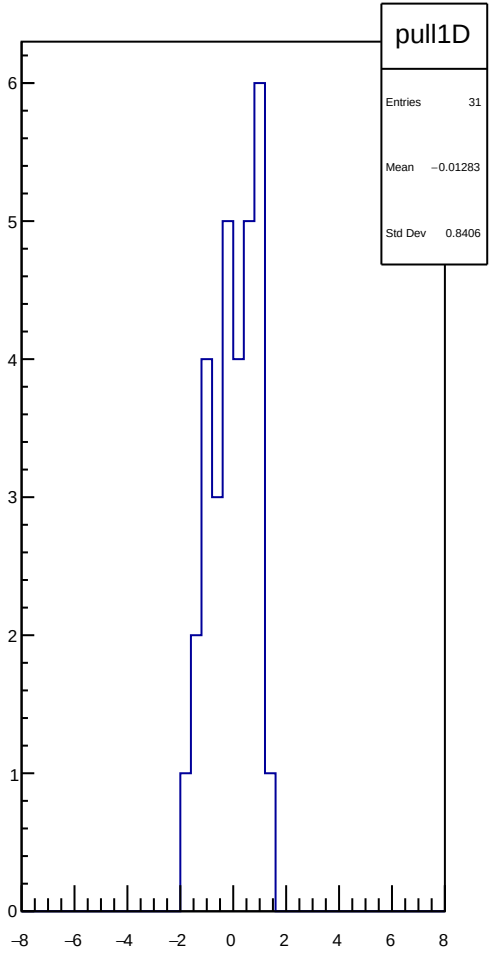

overload_cor_asym_usr_rms vs run
χ² / ndf 44.67 / 30
p0 1075 ± 1.393
1110
1100
1090
1080
1070
1060
1050
1040
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

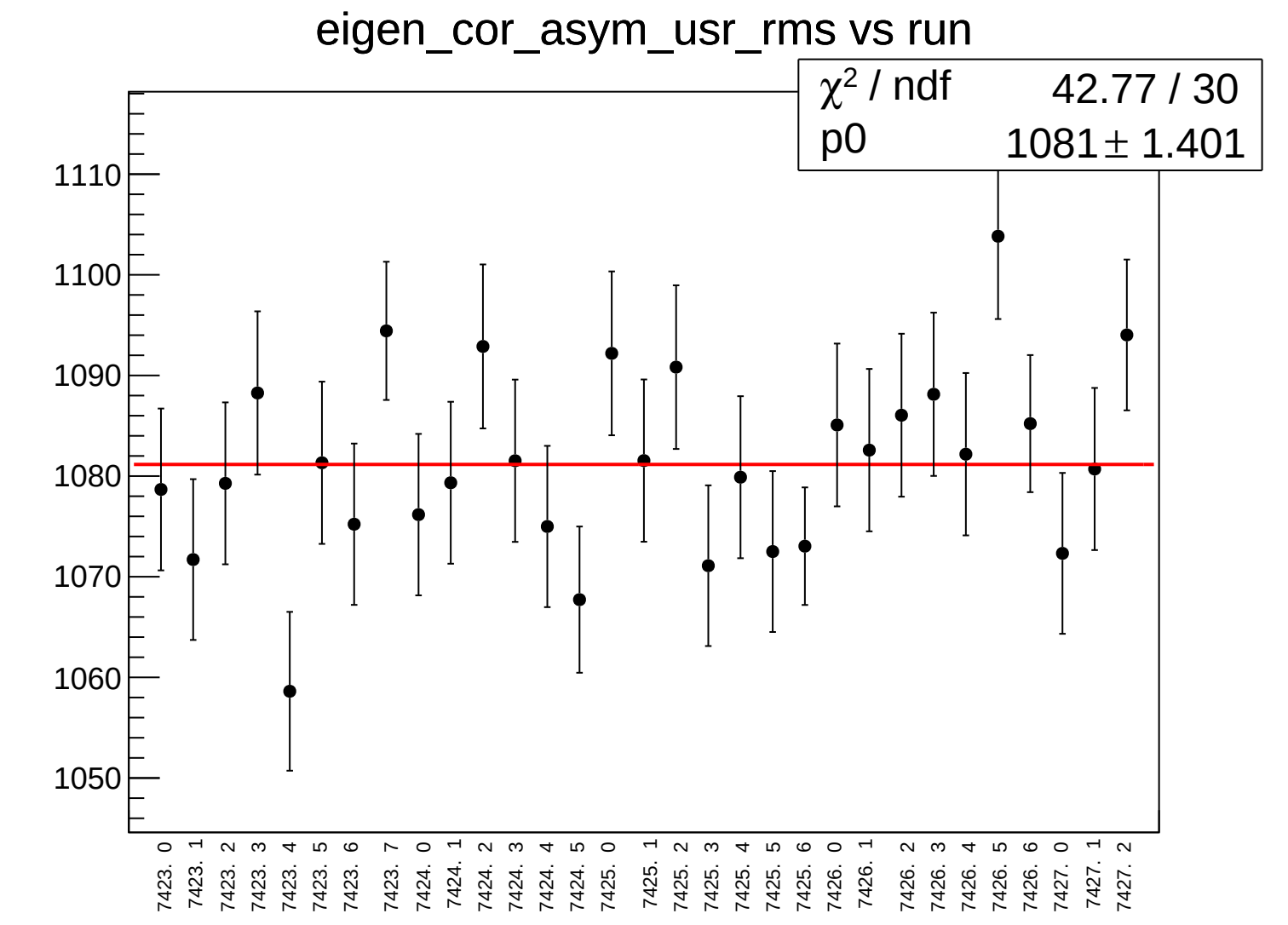

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 30 / 30
p0 −200.1± 2522
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 271
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

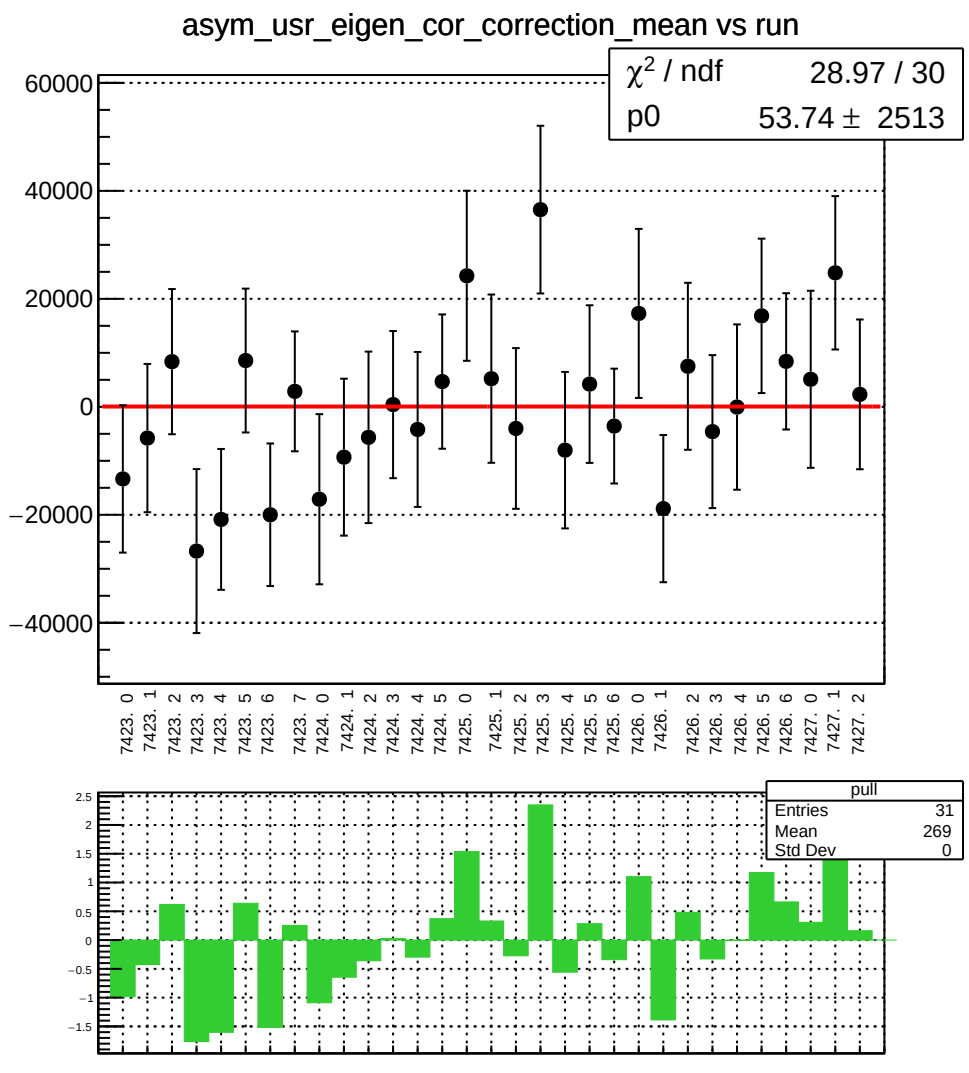

pull1D
Entries 31
Mean 0.01447
Std Dev 0.9837
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

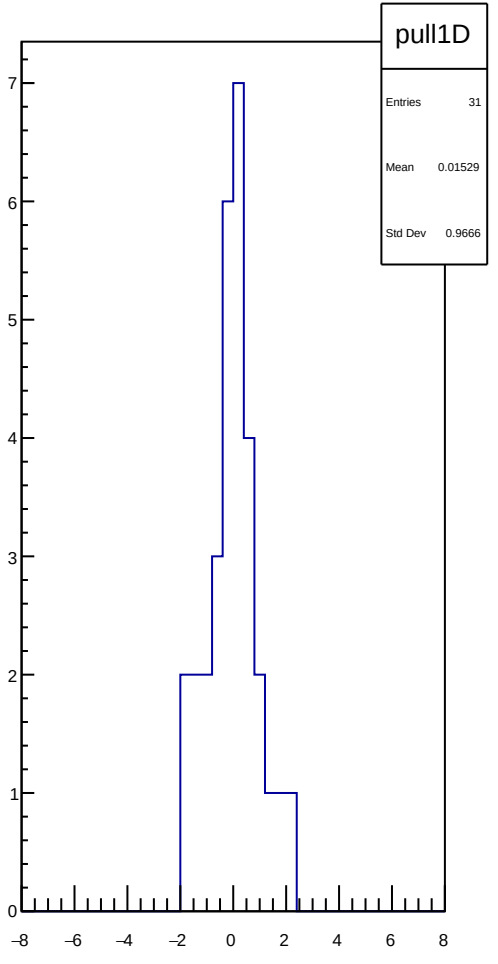

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 2350 / 30
p0 1373 ± 1.783
1600
1550
1500
1450
1400
1350
1300
1250
1200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

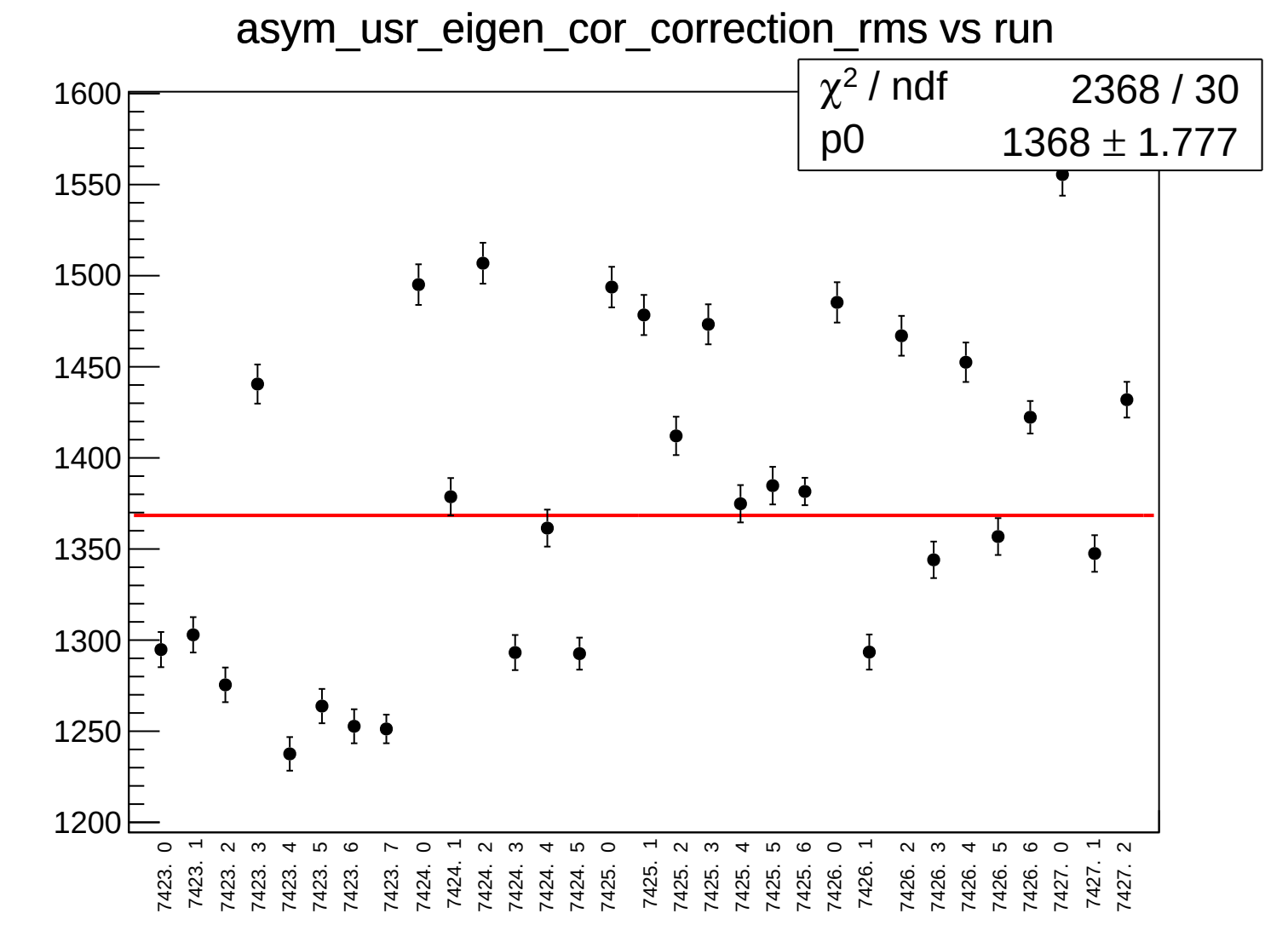

eigen_cor_asym_usr_mean vs run
χ² / ndf 21.91 / 30
p0 −2380 ± 1981
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −71.82
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

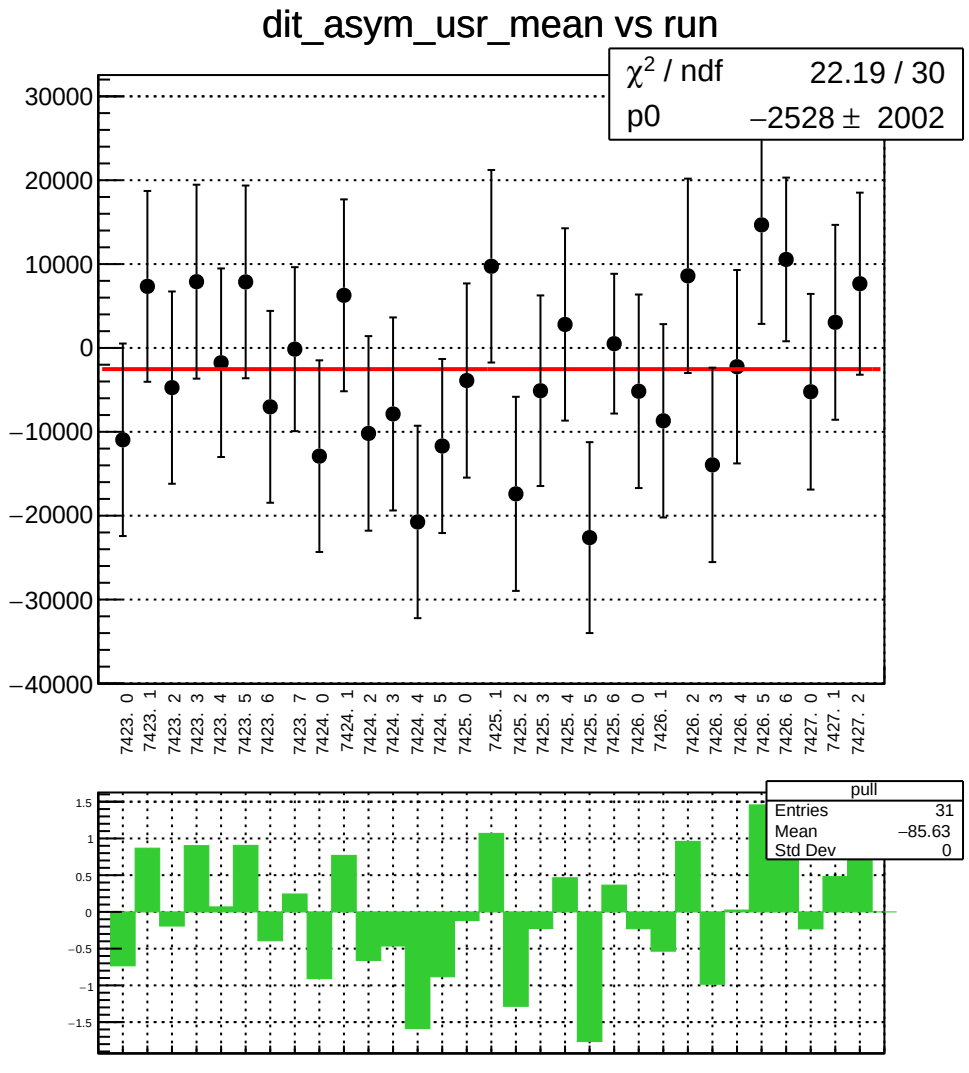

pull1D
Entries 31
Mean −0.01283
Std Dev 0.8406
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

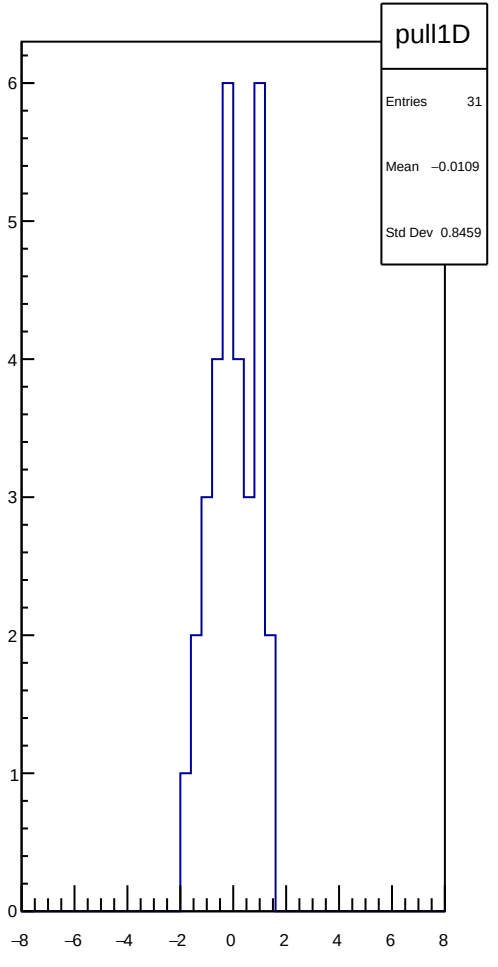

eigen_cor_asym_usr_rms vs run
χ² / ndf 42.77 / 30
p0 1081 ± 1.401
1110
1100
1090
1080
1070
1060
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

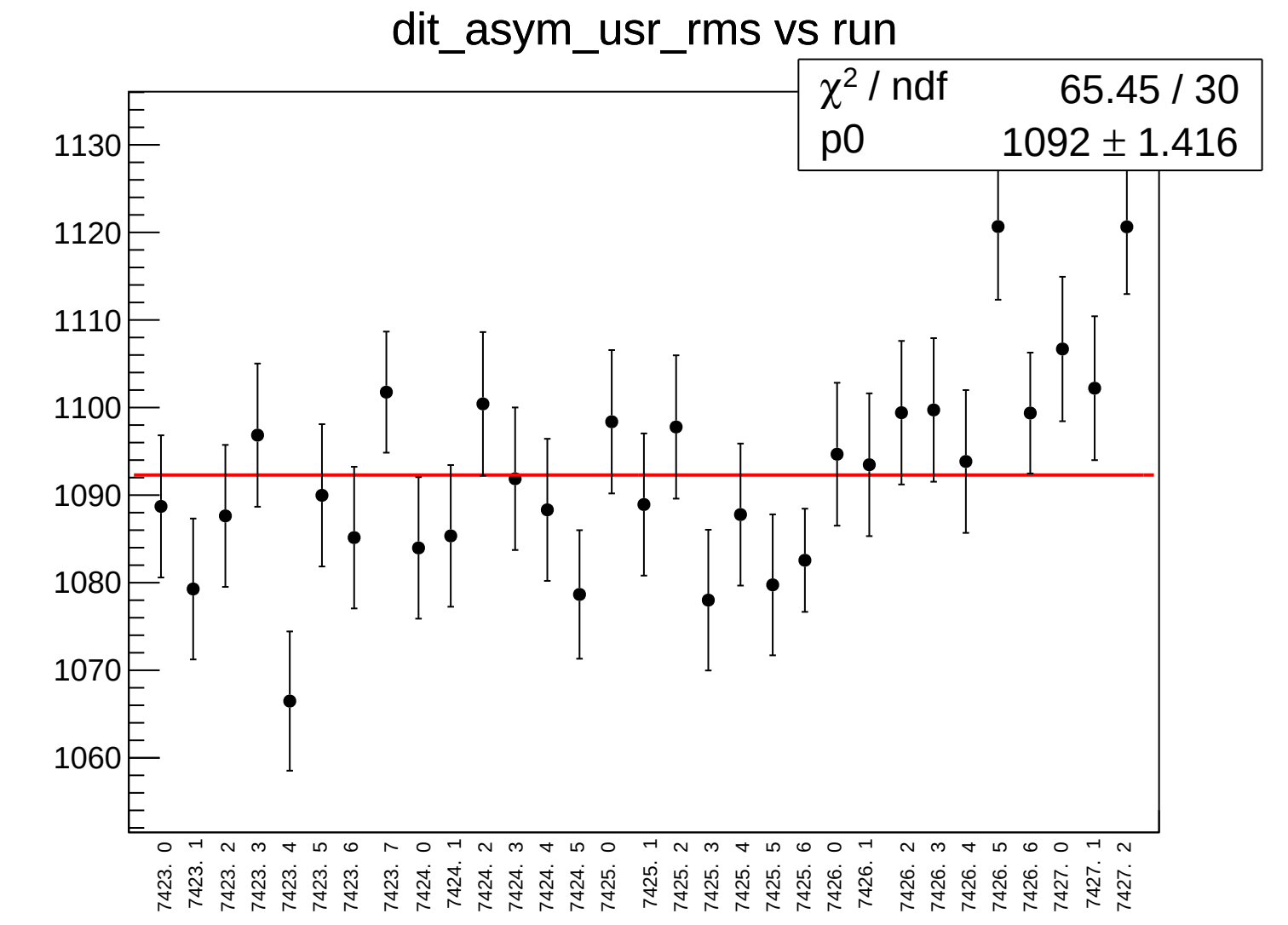

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 28.97 / 30
p0 53.74 ± 2513
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 269
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

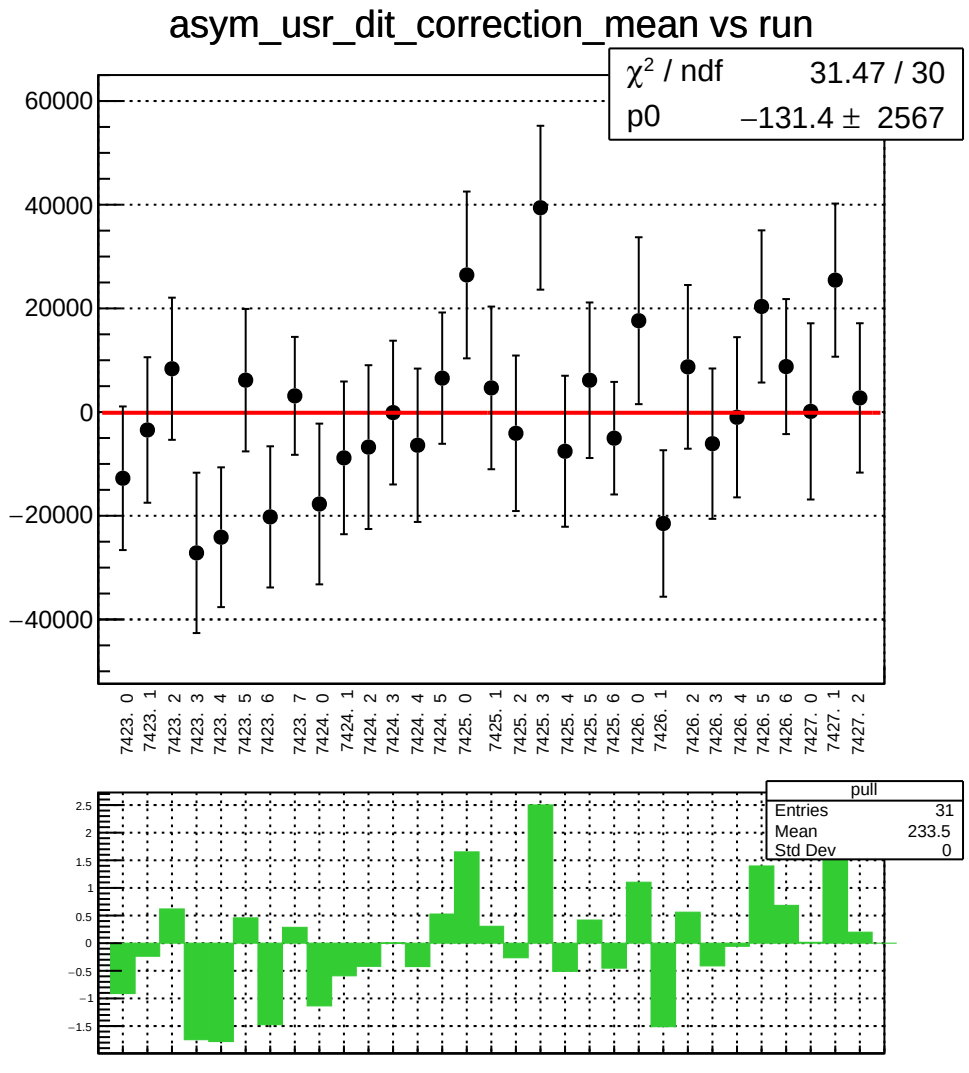

pull1D
Entries 31
Mean 0.01529
Std Dev 0.9666
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

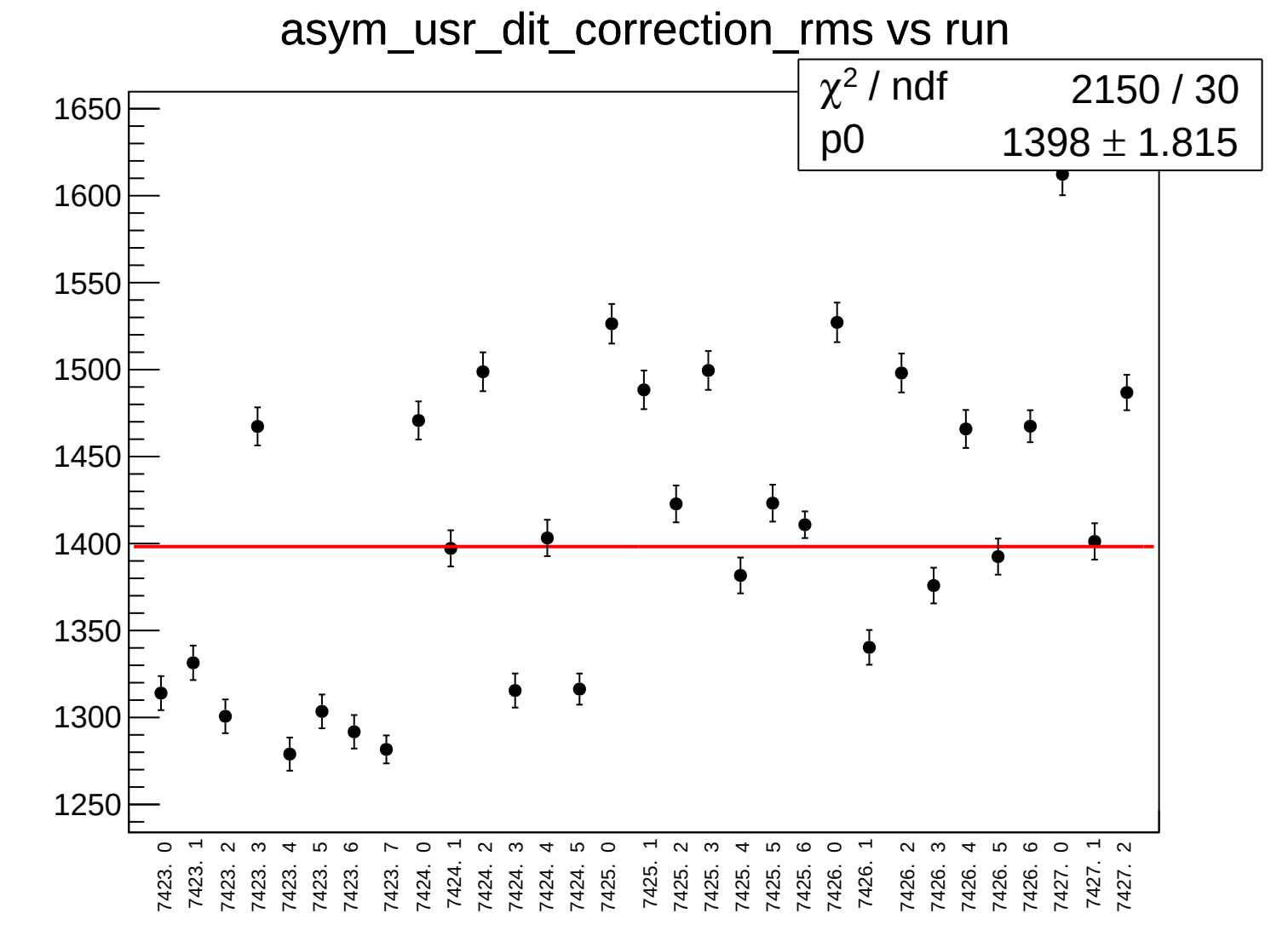

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 2368 / 30
p0 1368 ± 1.777
1600
1550
1500
1450
1400
1350
1300
1250
1200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

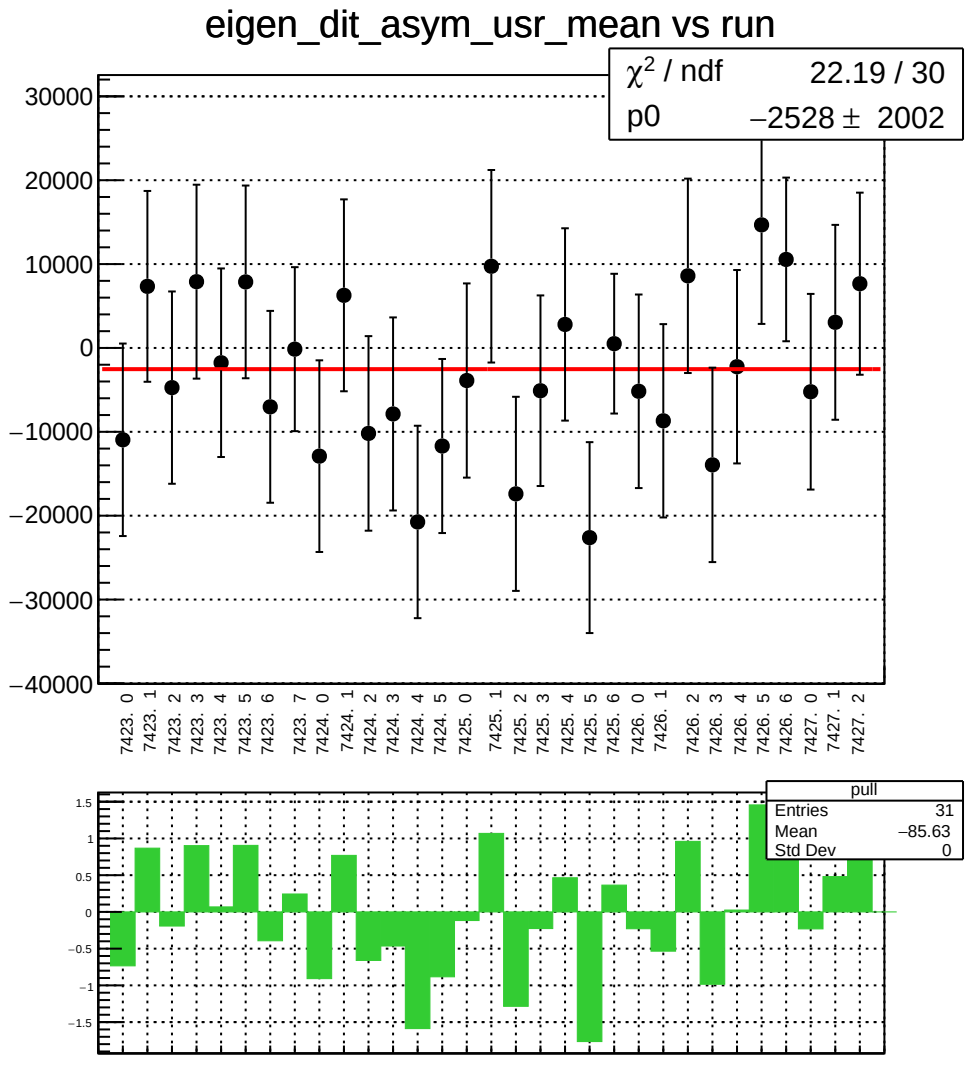

dit_asym_usr_mean vs run
χ² / ndf 22.19 / 30
p0 −2528 ± 2002
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −85.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

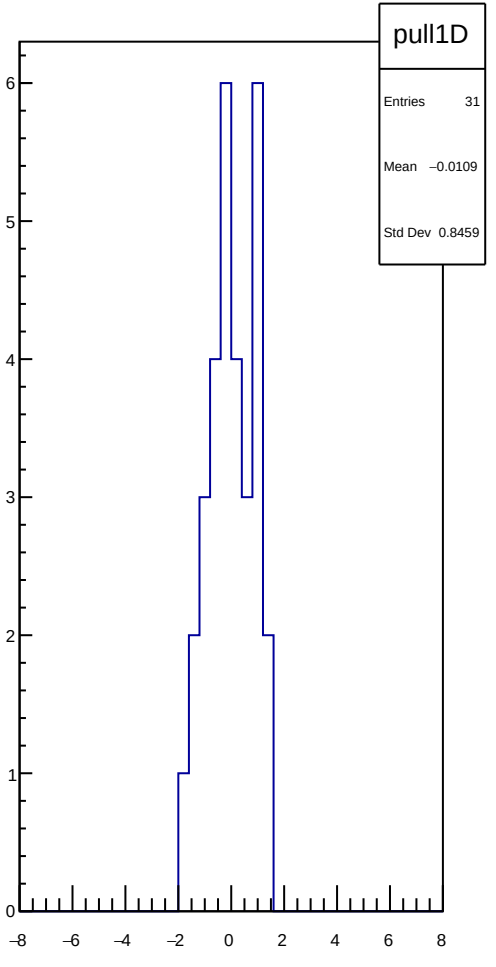

pull1D
Entries 31
Mean −0.0109
Std Dev 0.8459
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

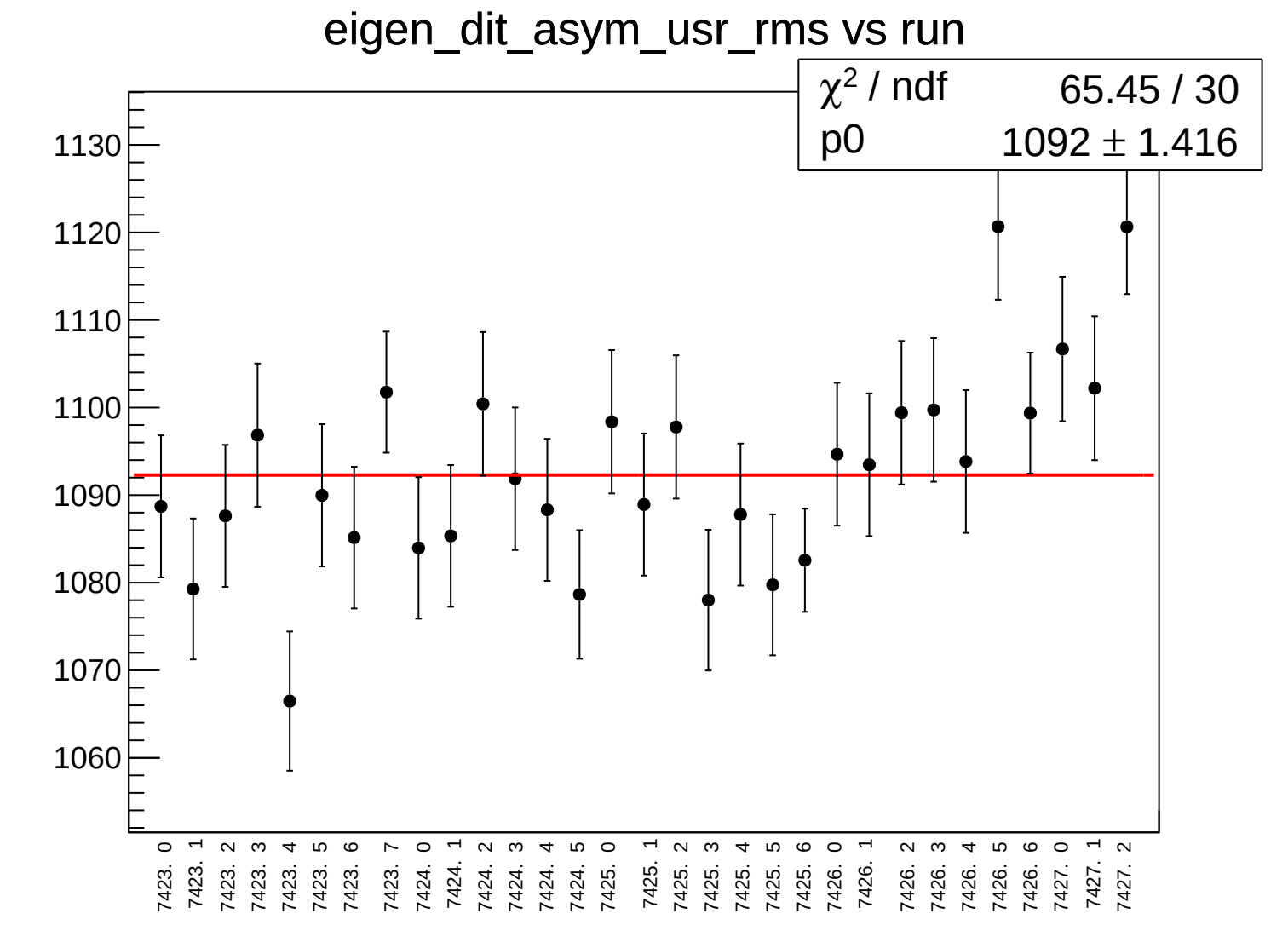

dit_asym_usr_rms vs run
χ² / ndf 65.45 / 30
p0 1092 ± 1.416
1130
1120
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

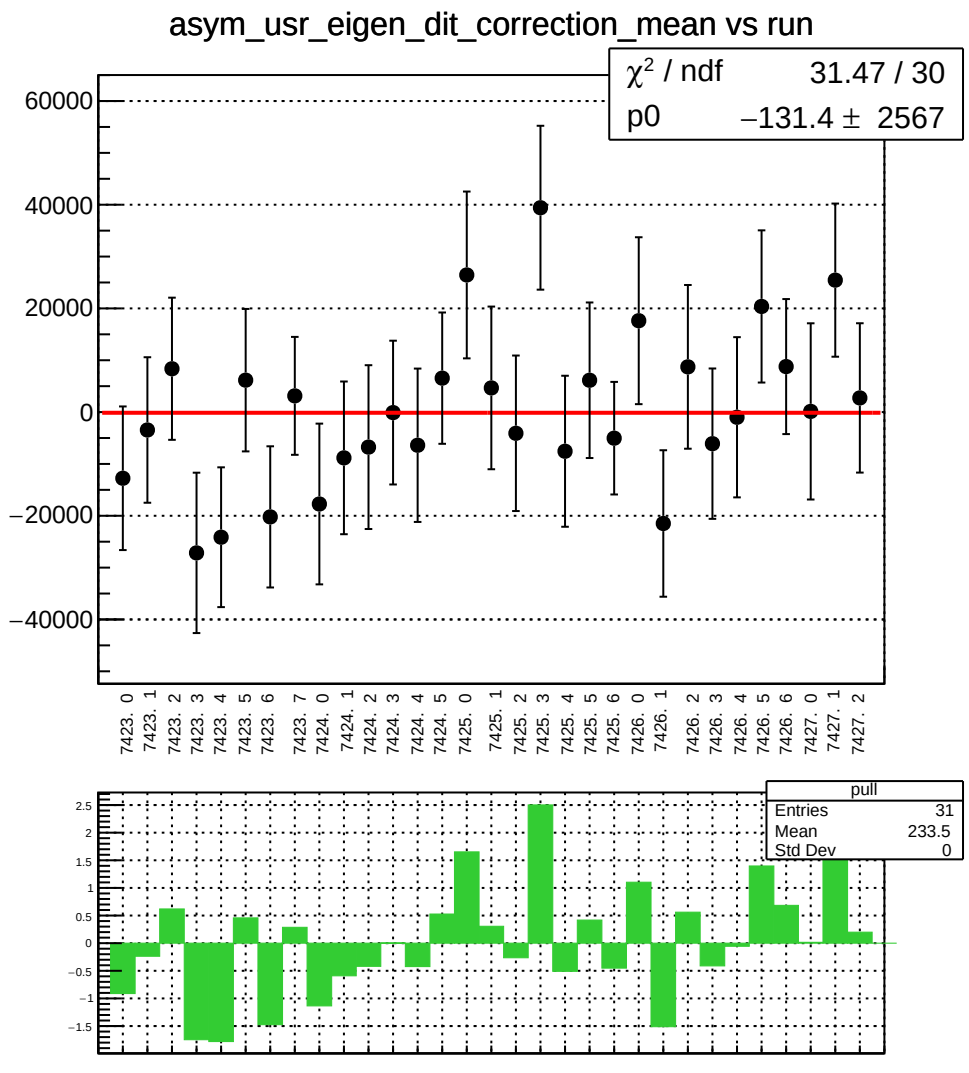

asym_usr_dit_correction_mean vs run
χ² / ndf 31.47 / 30
p0 −131.4 ± 2567
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 233.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01745
Std Dev 1.007
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

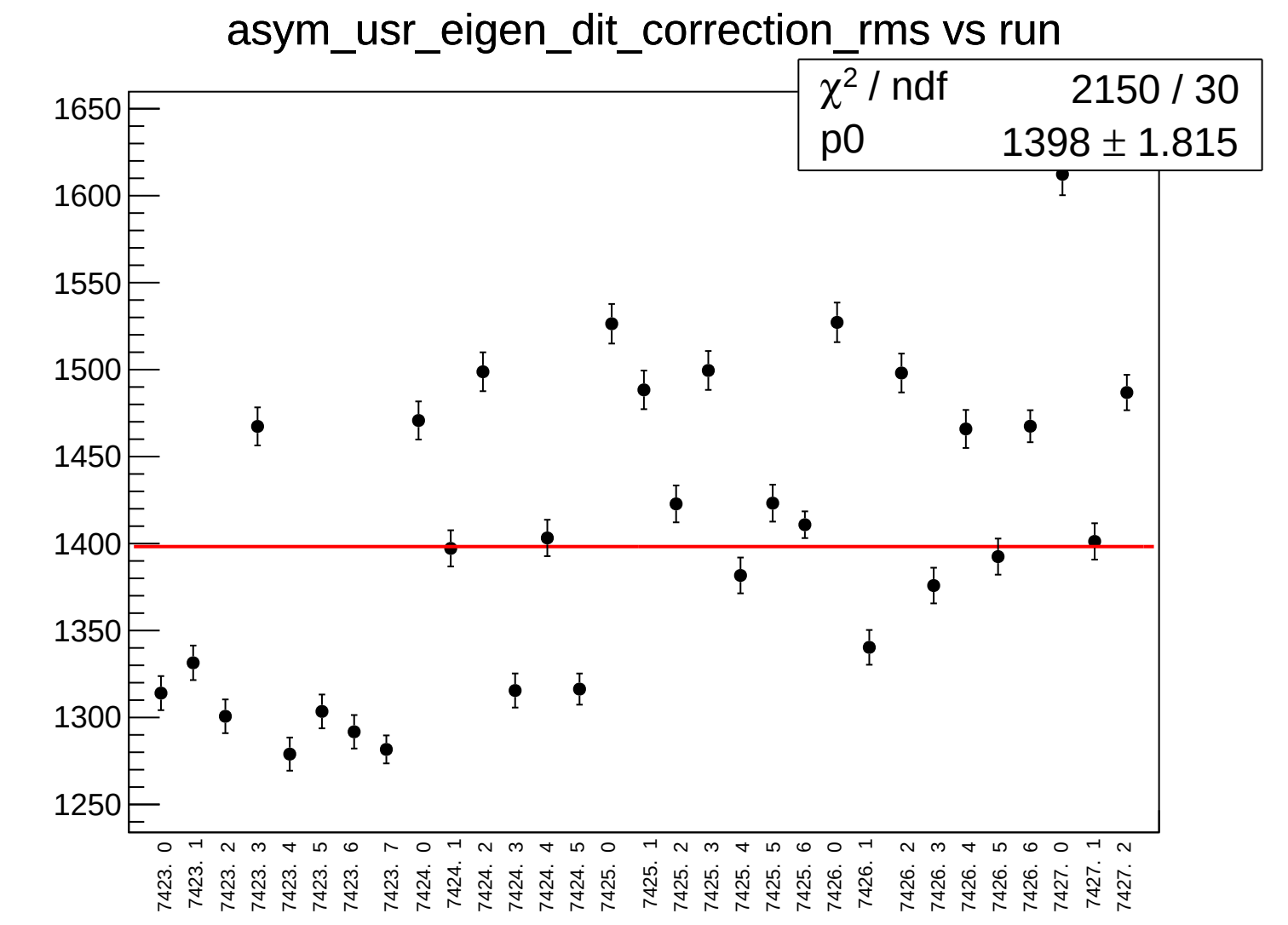

asym_usr_dit_correction_rms vs run
χ² / ndf 2150 / 30
p0 1398 ± 1.815
1650
1600
1550
1500
1450
1400
1350
1300
1250
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

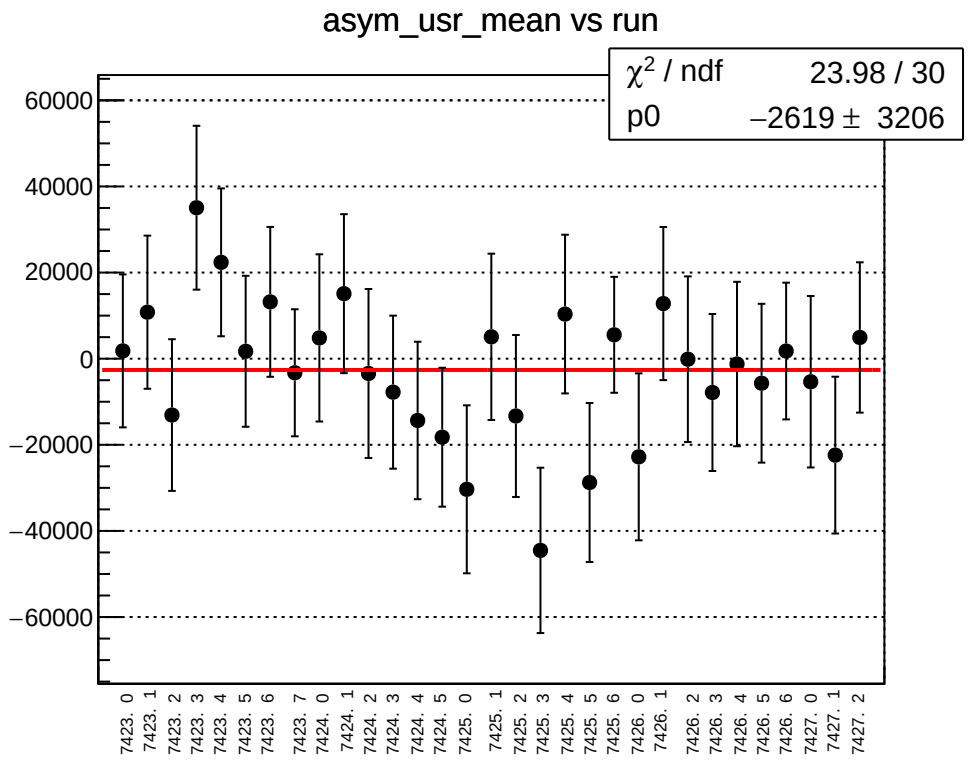

eigen_dit_asym_usr_mean vs run
χ² / ndf 22.19 / 30
p0 −2528 ± 2002
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −85.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

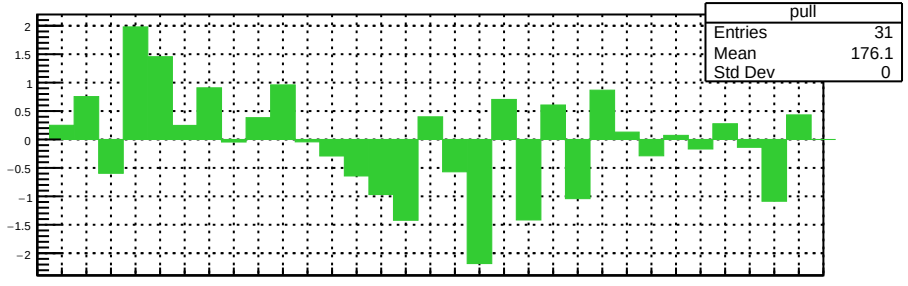

pull1D
Entries 31
Mean −0.0109
Std Dev 0.8459
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

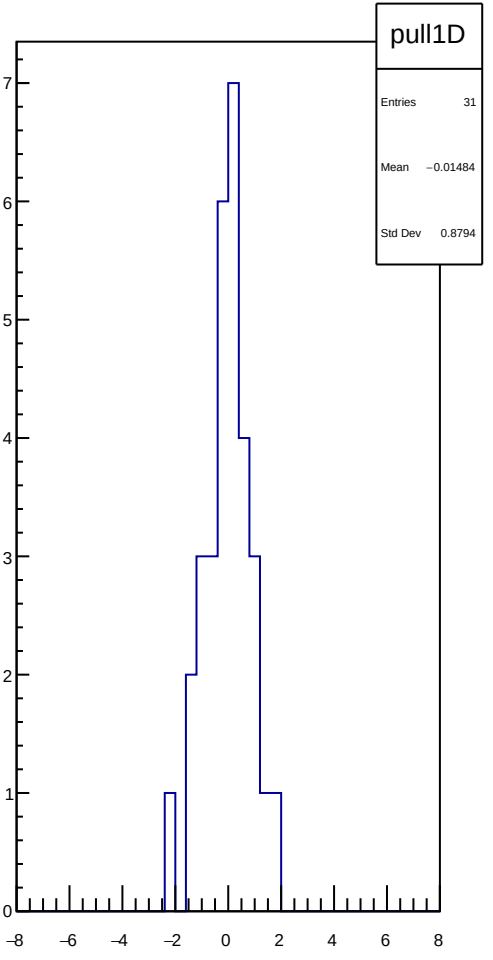

eigen_dit_asym_usr_rms vs run
χ² / ndf 65.45 / 30
p0 1092 ± 1.416
1130
1120
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

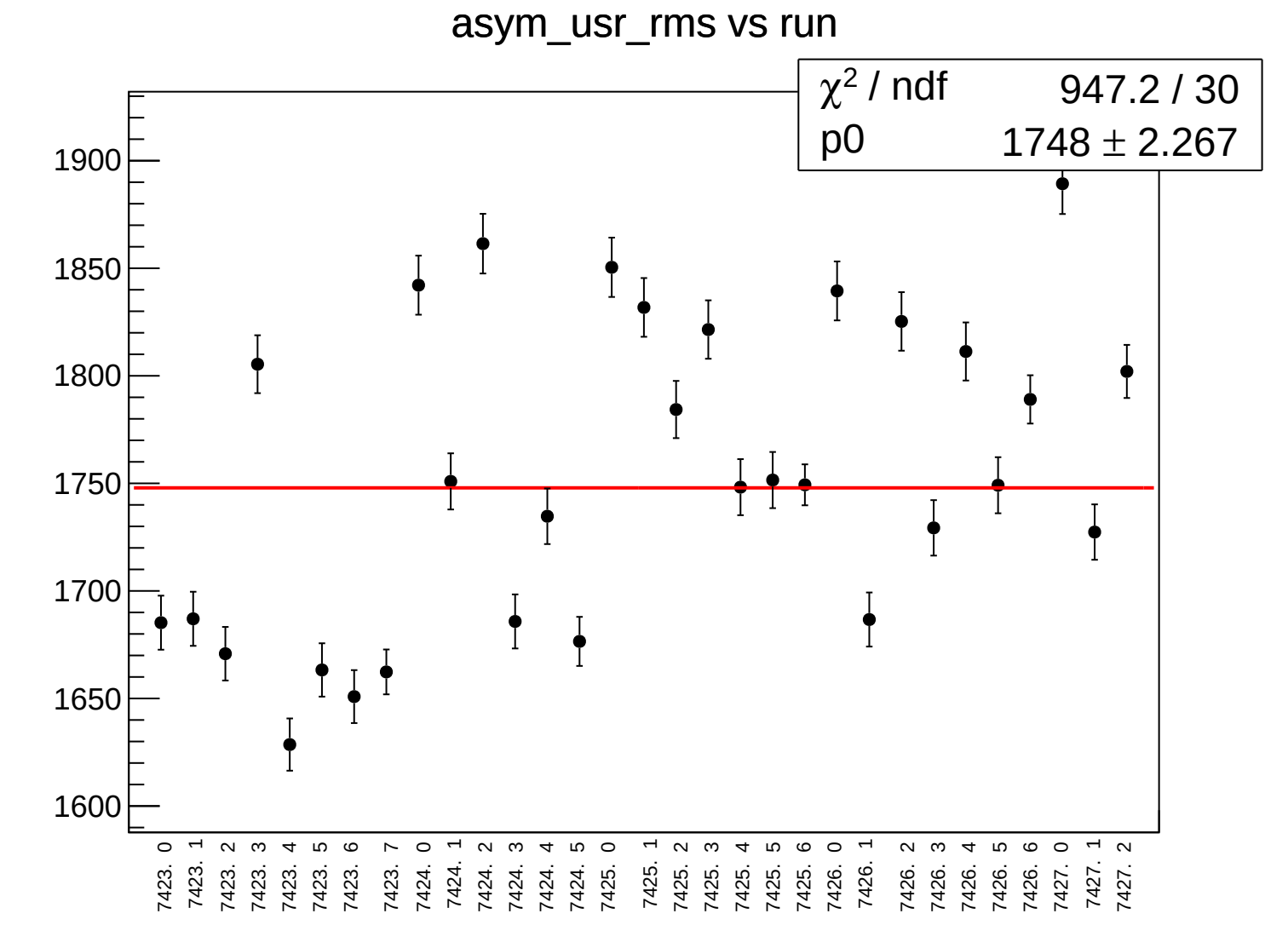

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 31.47 / 30
p0 −131.4 ± 2567
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 233.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01745
Std Dev 1.007
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

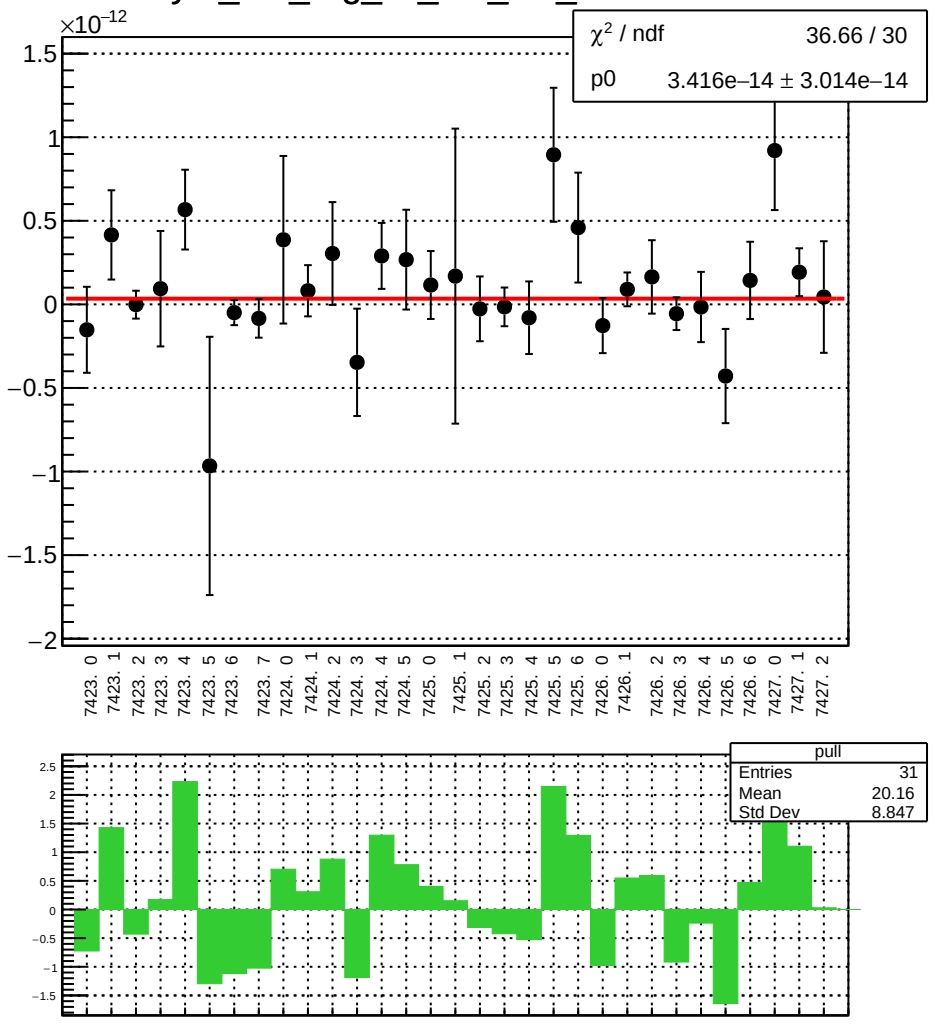

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2150 / 30
p0 1398 ± 1.815
1650
1600
1550
1500
1450
1400
1350
1300
1250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

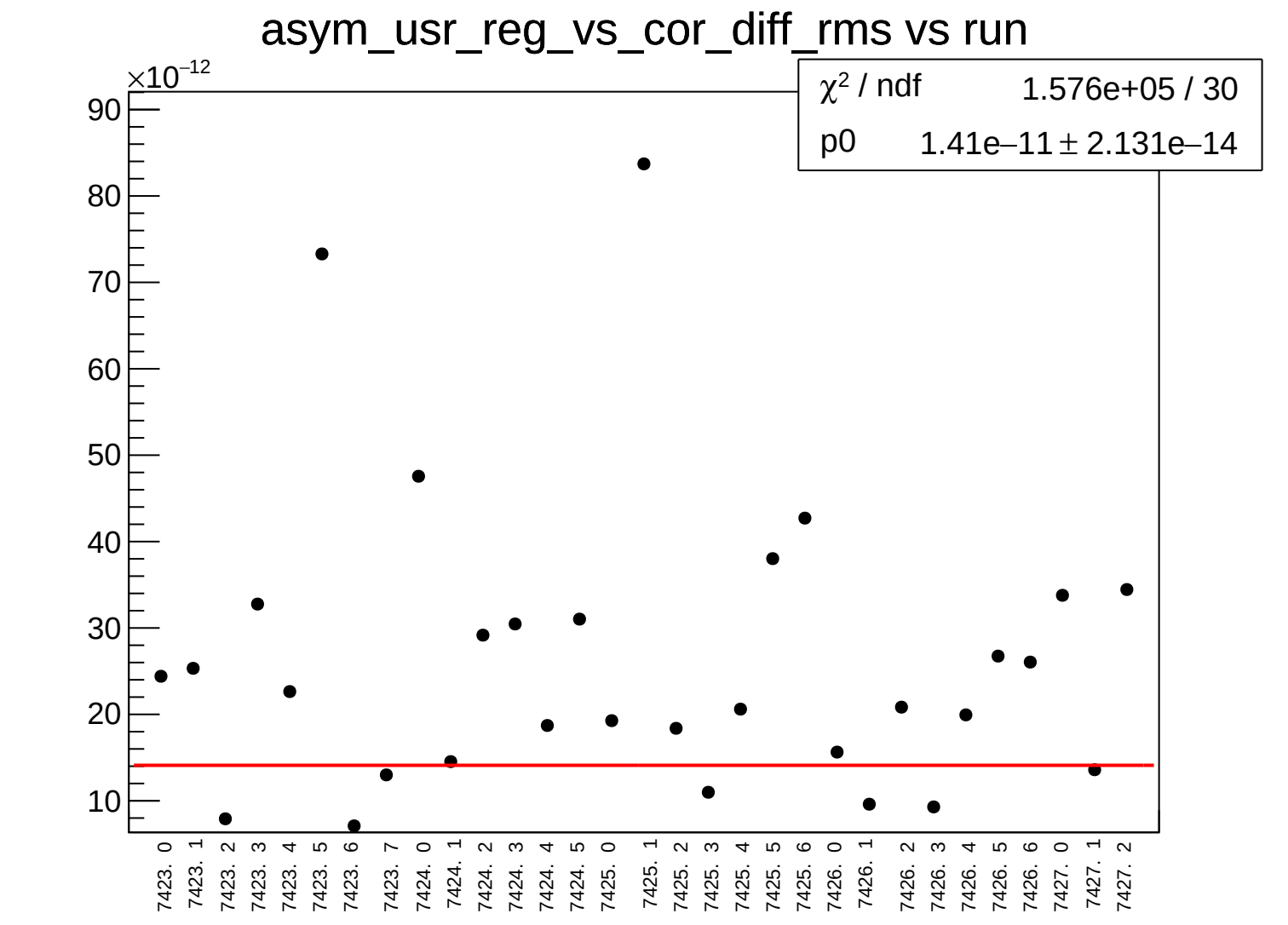

asym_usr_mean vs run
χ² / ndf 23.98 / 30
p0 −2619 ± 3206
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

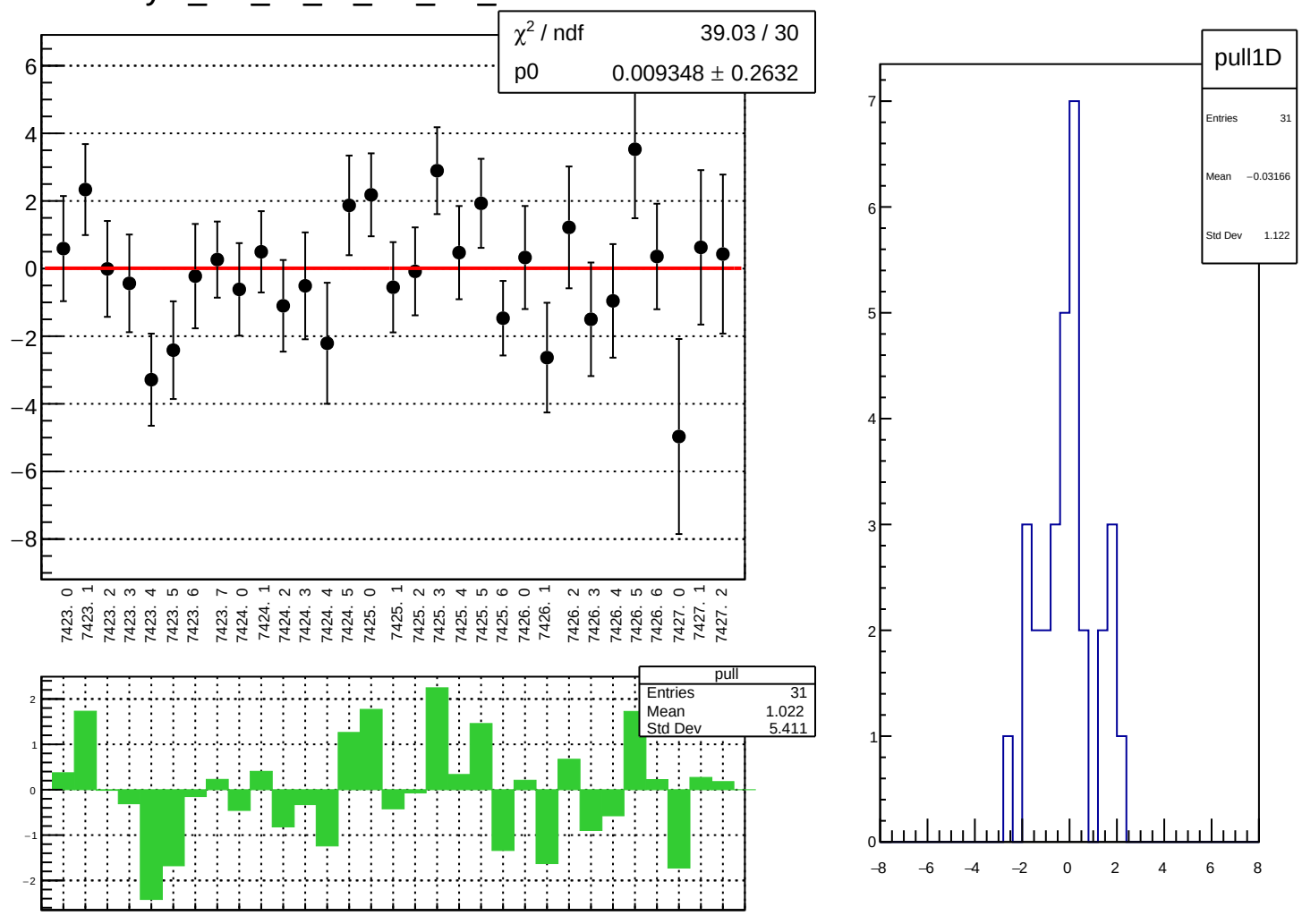

pull
Entries 31
Mean 176.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

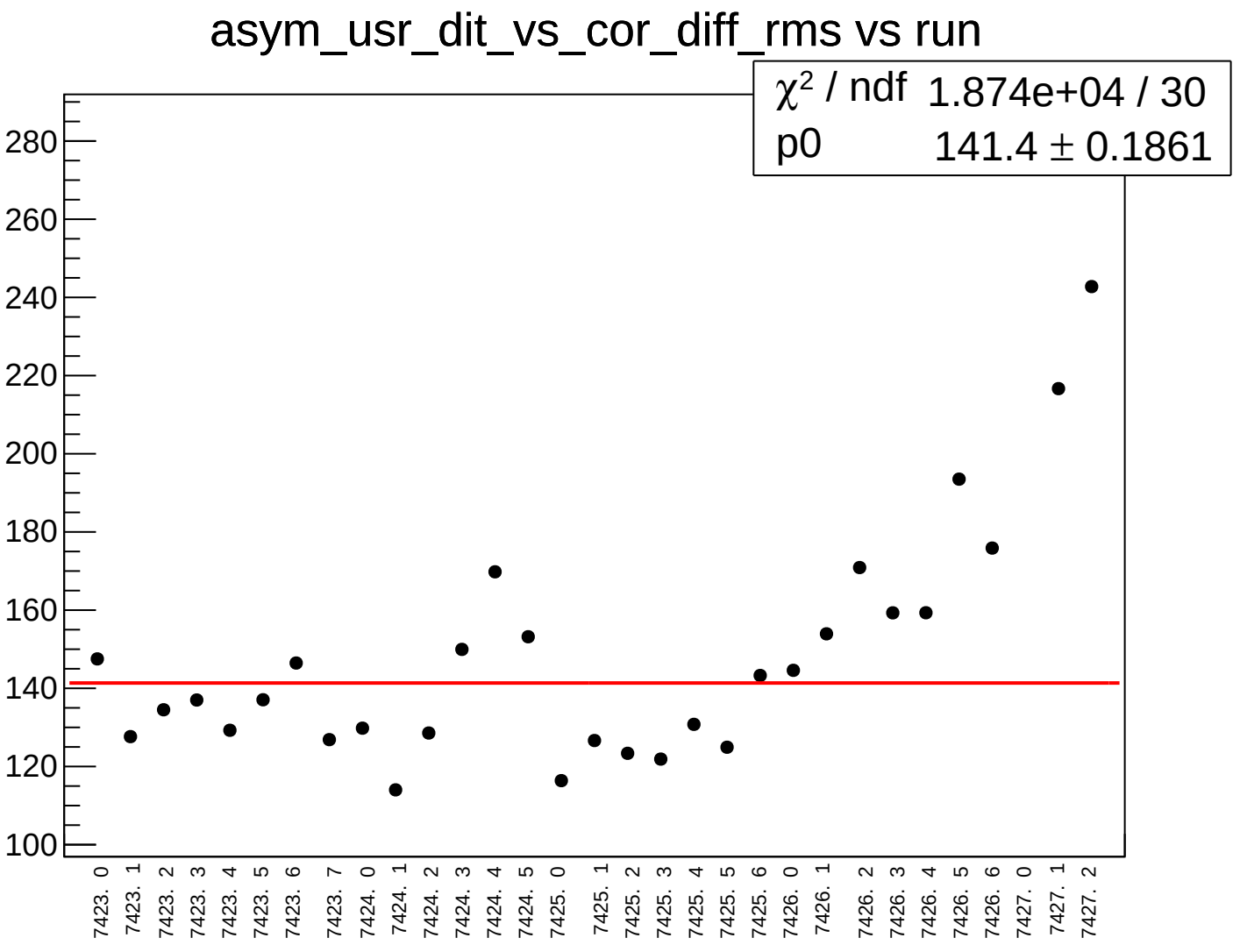

pull1D
Entries 31
Mean −0.01484
Std Dev 0.8794
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

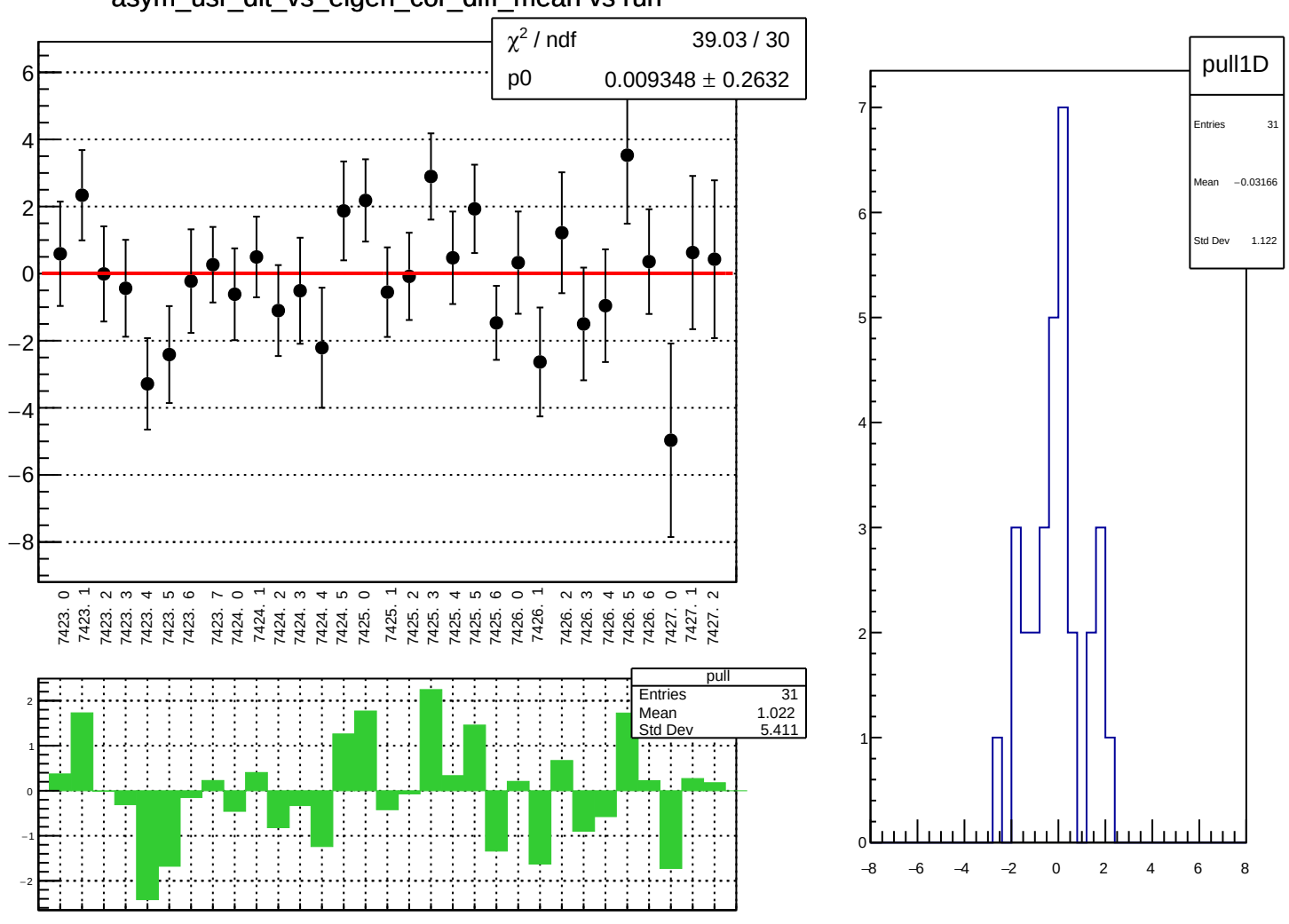

asym_usr_rms vs run
χ² / ndf 947.2 / 30
p0 1748 ± 2.267
1900
1850
1800
1750
1700
1650
1600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

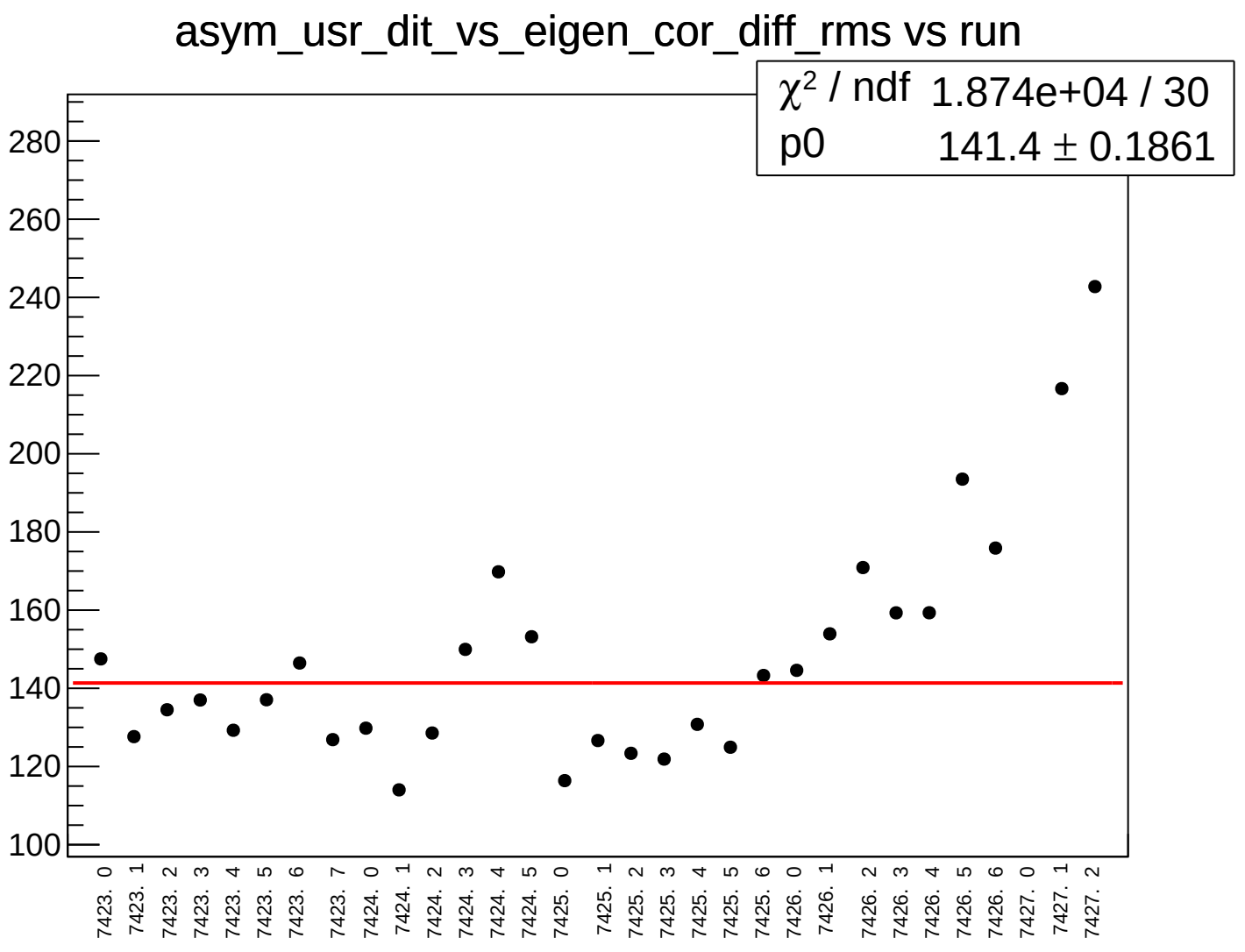

asym_usr_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 36.66 / 30
p0 3.416e−14 ± 3.014e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 20.16
Std Dev 8.847
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.2009
Std Dev 1.069
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

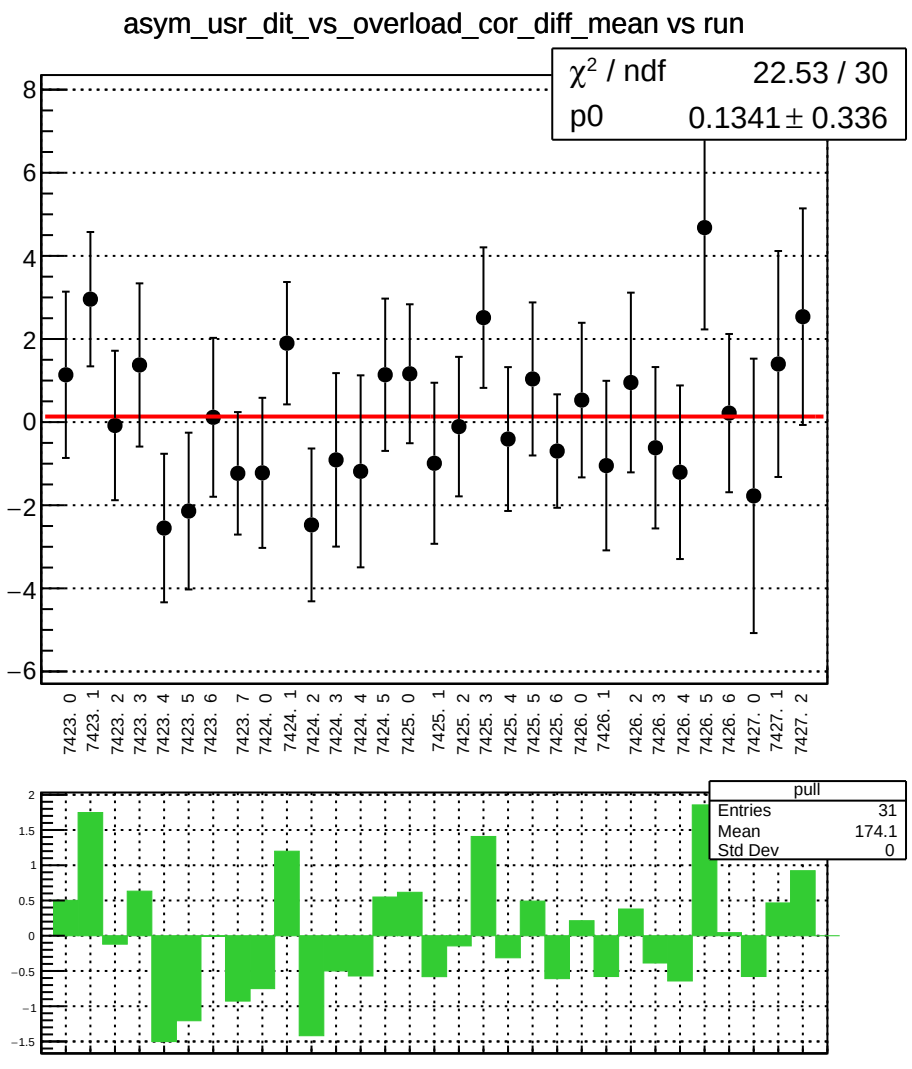

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.576e+05 / 30
p0 1.41e−11 ± 2.131e−14
90
80
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

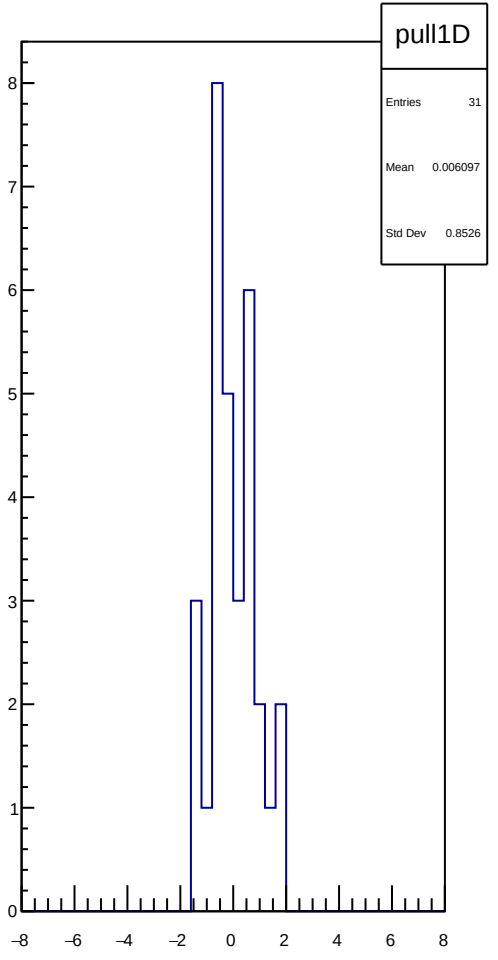

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 39.03 / 30
p0 0.009348 ± 0.2632
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1.022
Std Dev 5.411
pull1D
Entries 31
Mean −0.03166
Std Dev 1.122

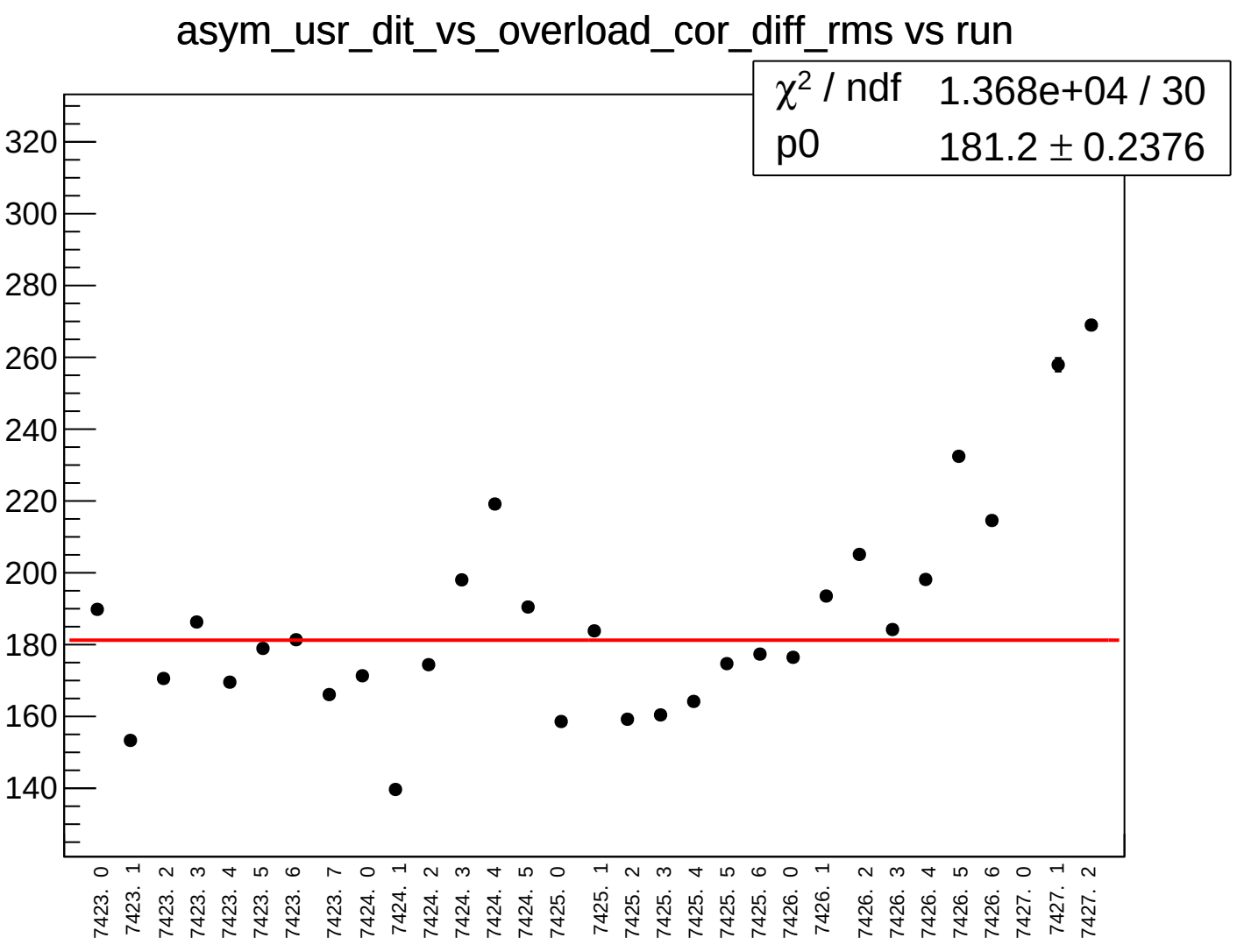

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.874e+04 / 30
p0 141.4 ± 0.1861
280
260
240
220
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

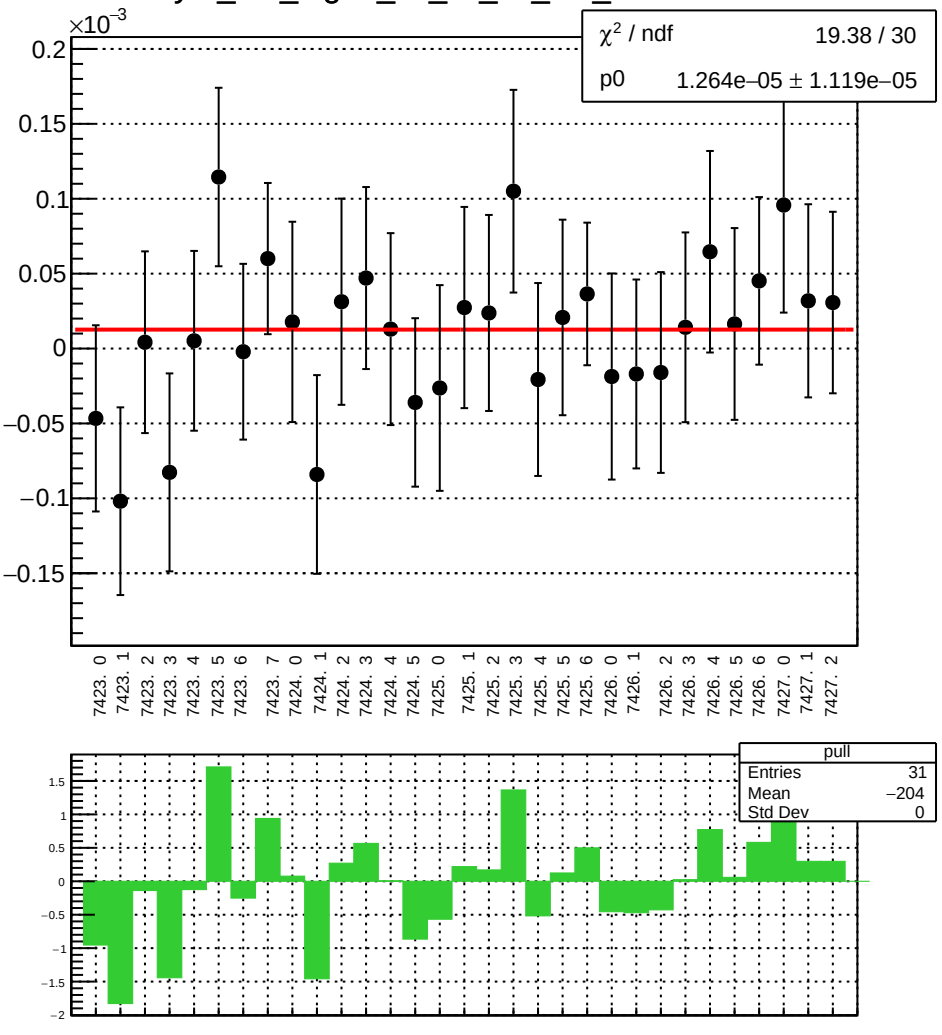

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.03 / 30
p0 0.009348 ± 0.2632
pull
Entries 31
Mean 1.022
Std Dev 5.411
pull1D
Entries 31
Mean −0.03166
Std Dev 1.122

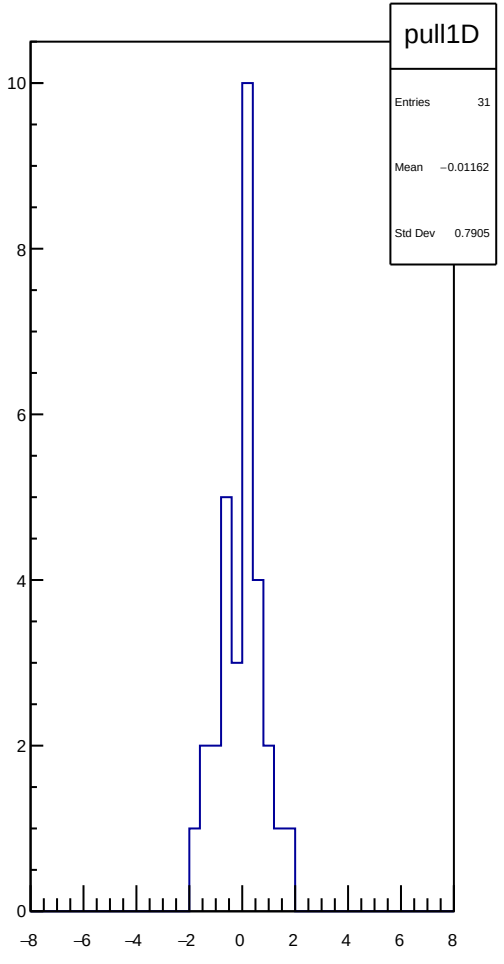

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.874e+04 / 30
p0 141.4 ± 0.1861
280
260
240
220
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

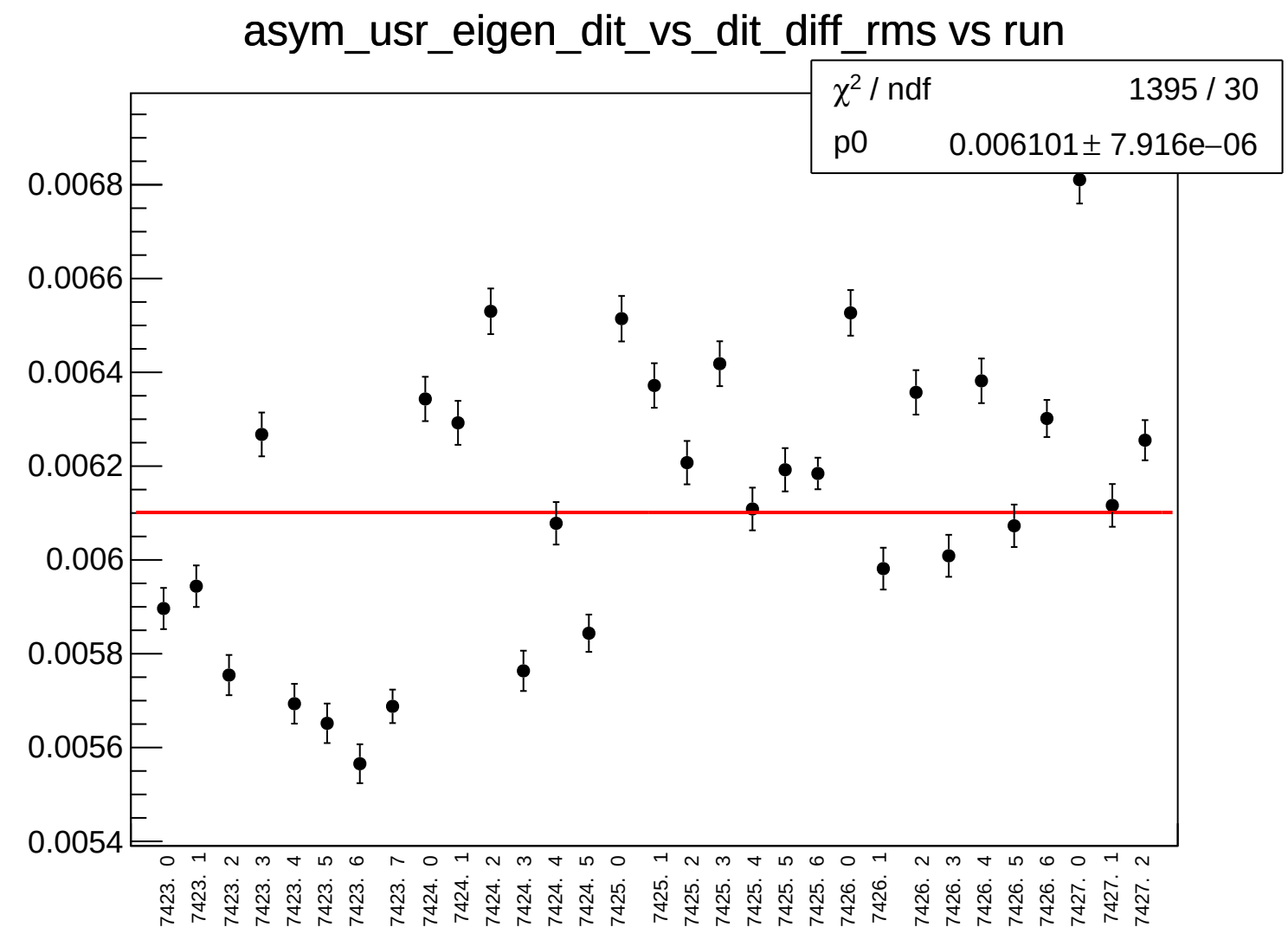

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 22.53 / 30
p0 0.1341 ± 0.336
pull
Entries 31
Mean 174.1
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

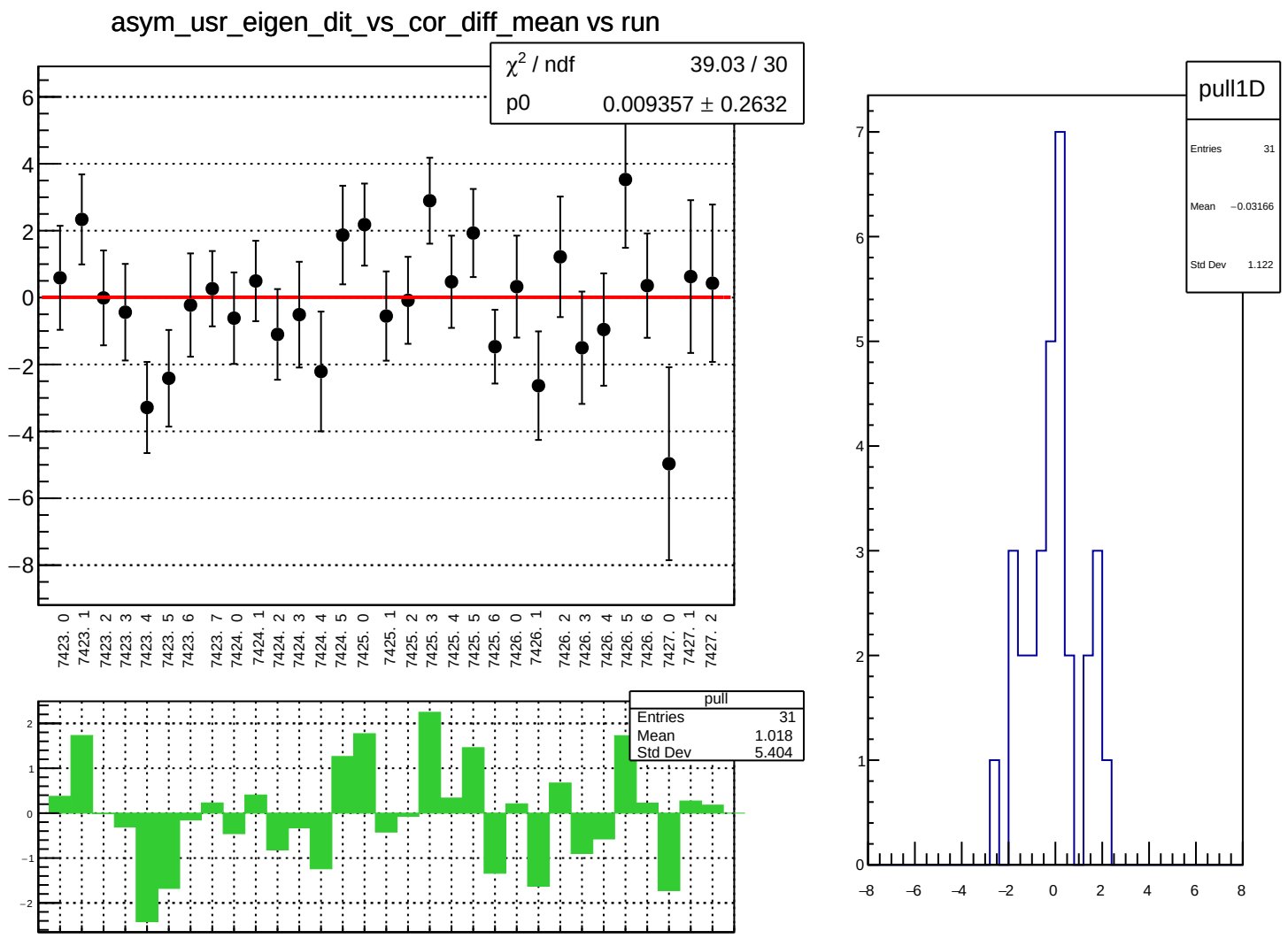

pull1D
Entries 31
Mean 0.006097
Std Dev 0.8526

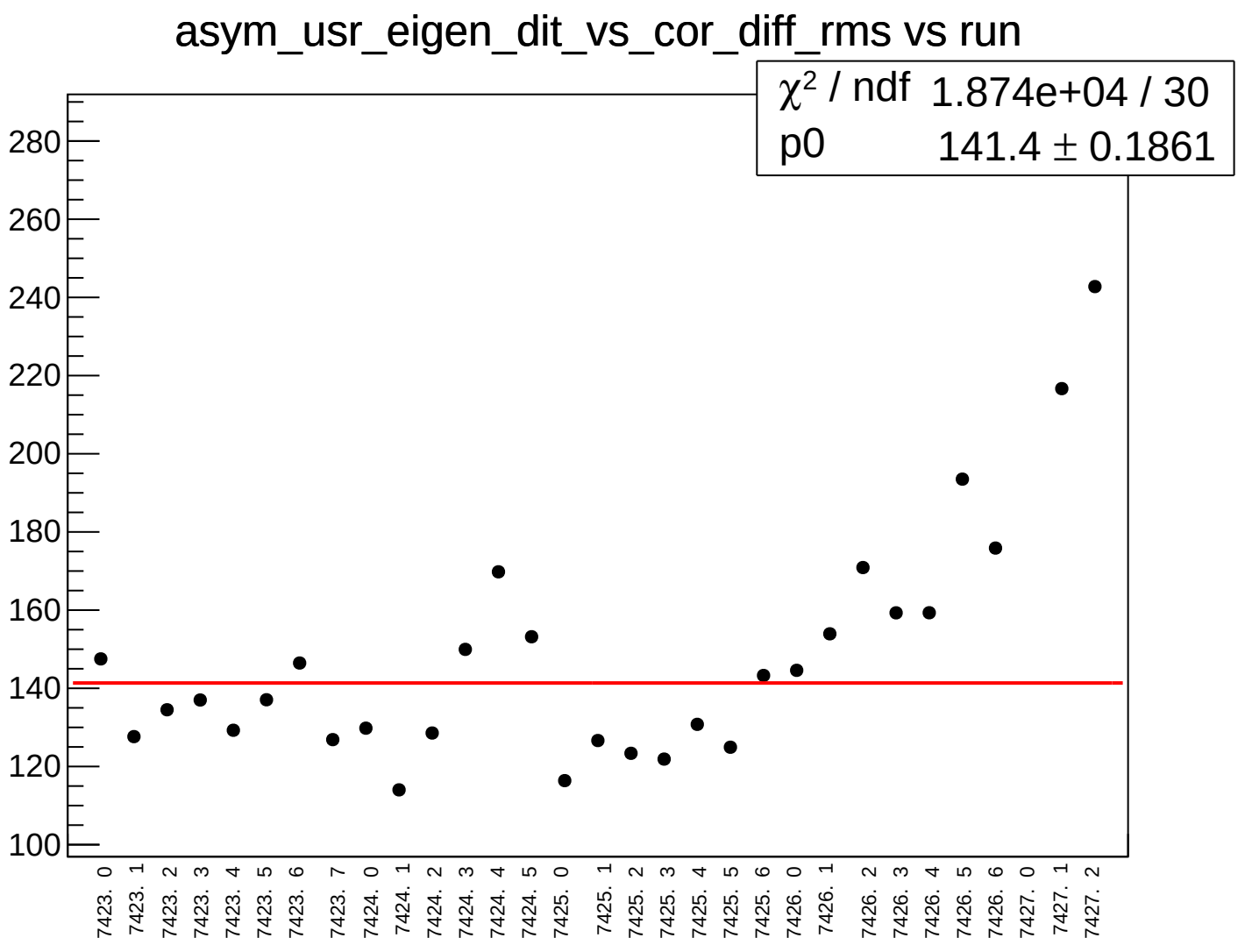

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.368e+04 / 30
p0 181.2 ± 0.2376
320
300
280
260
240
220
200
180
160
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

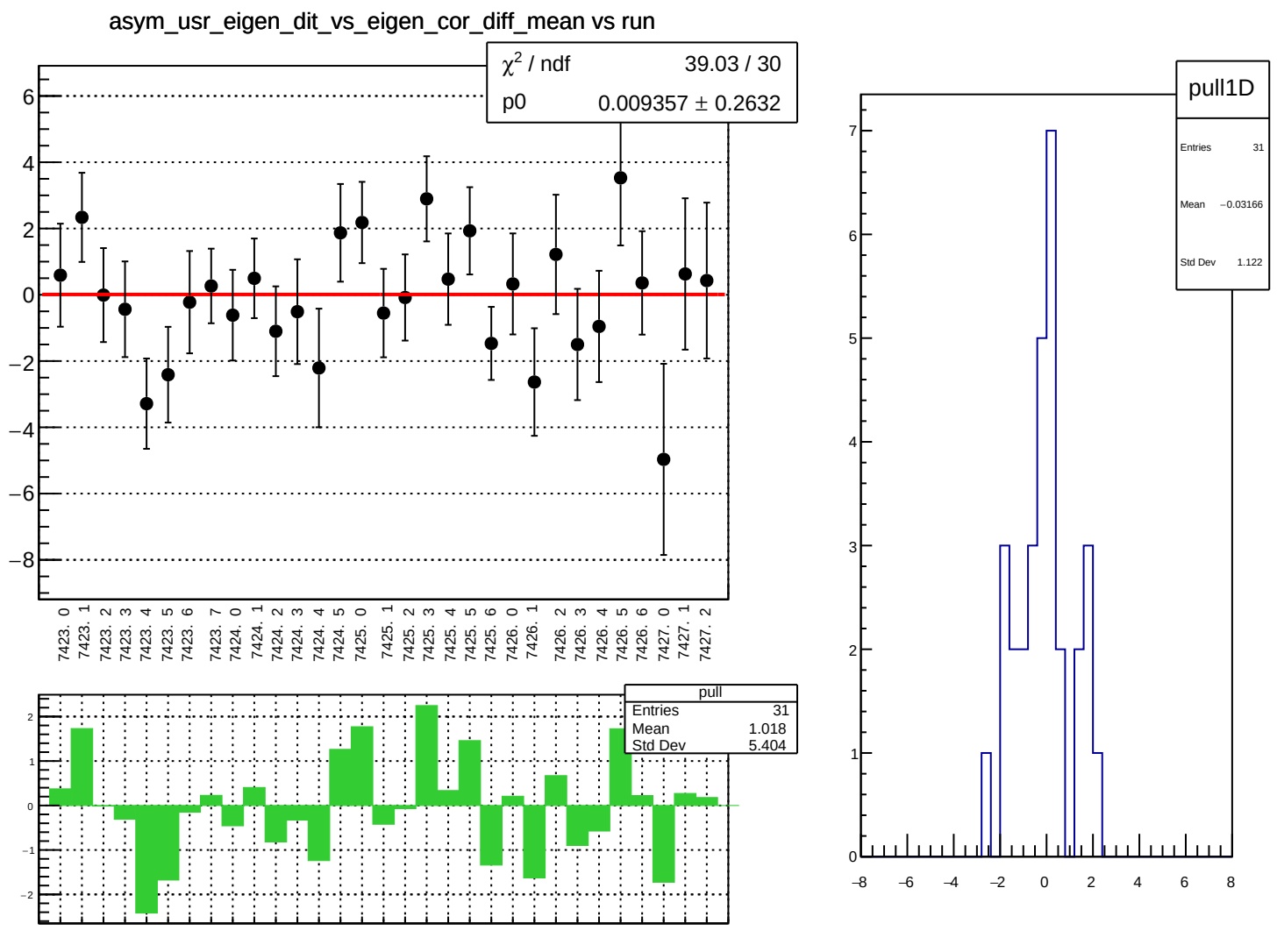

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.38 / 30
p0 1.264e−05 ± 1.119e−05
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −204
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

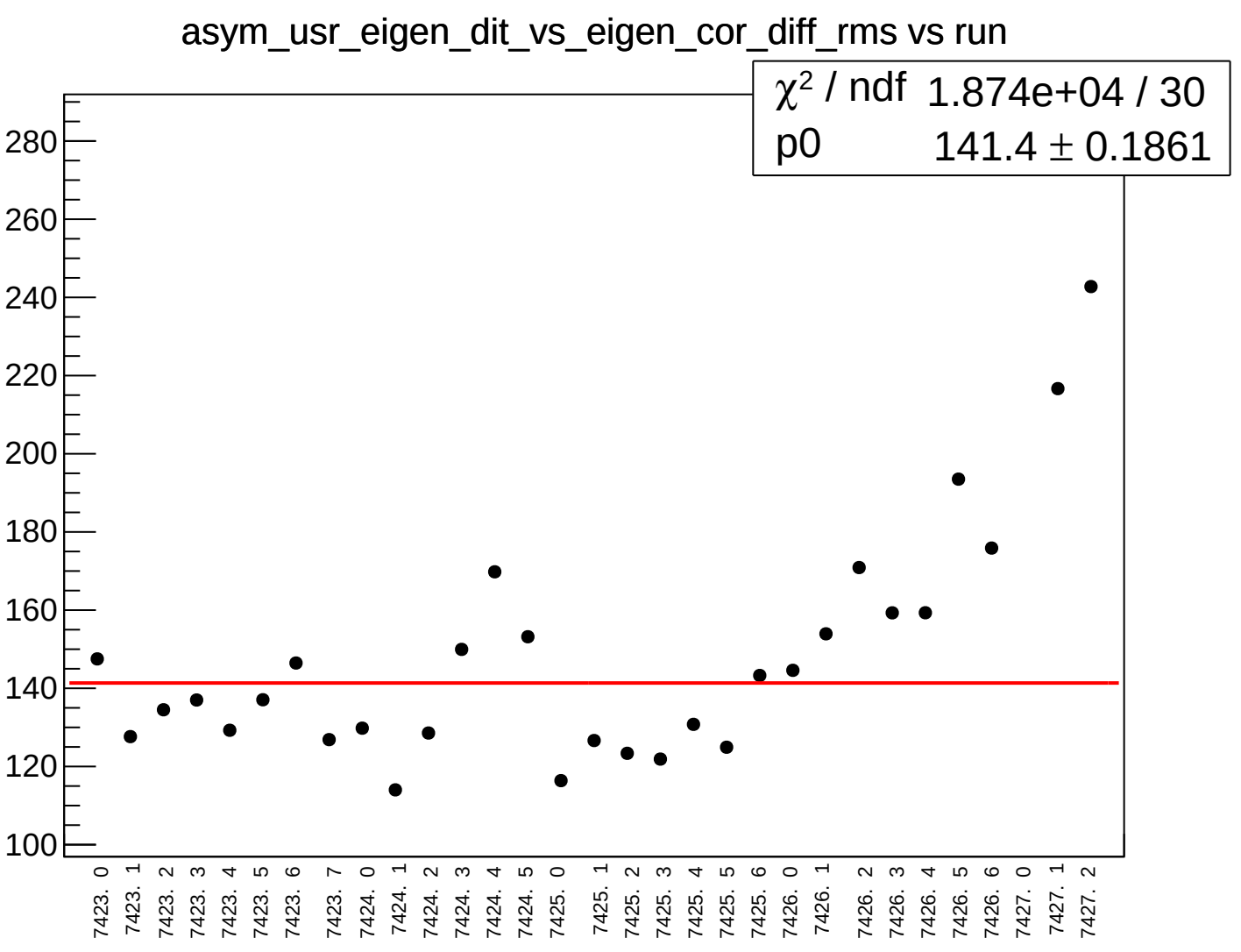

pull1D
Entries 31
Mean −0.01162
Std Dev 0.7905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1395 / 30
p0 0.006101 ± 7.916e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

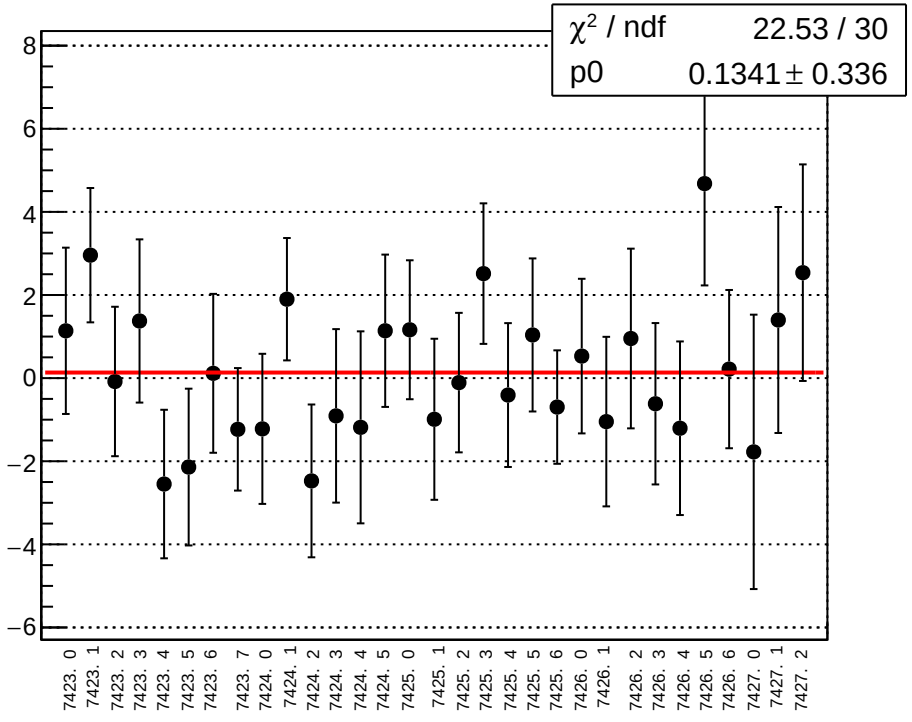

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.03 / 30
p0 0.009357 ± 0.2632
pull
Entries 31
Mean 1.018
Std Dev 5.404
pull1D
Entries 31
Mean −0.03166
Std Dev 1.122

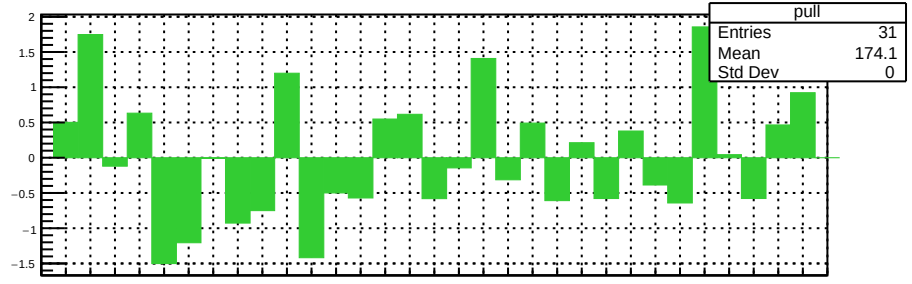

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.874e+04 / 30
p0 141.4 ± 0.1861
280
260
240
220
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

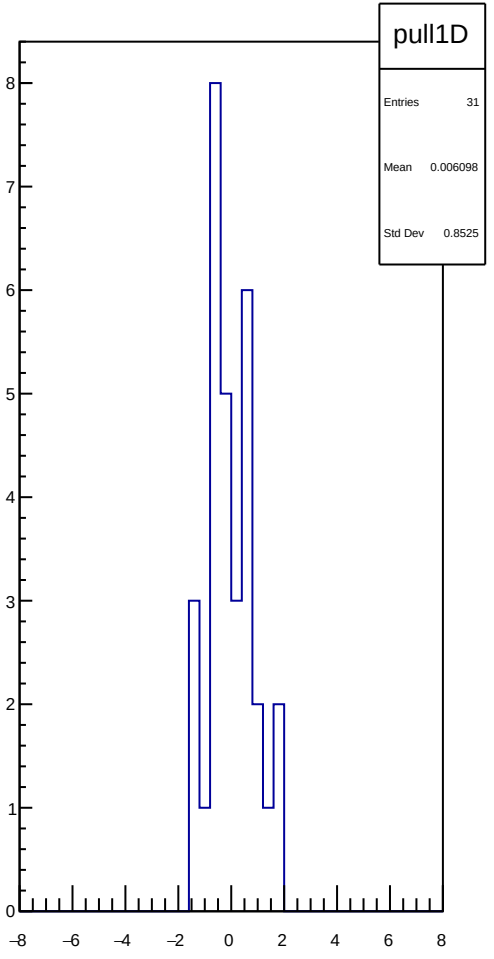

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.03 / 30
p0 0.009357 ± 0.2632
pull
Entries 31
Mean 1.018
Std Dev 5.404
pull1D
Entries 31
Mean −0.03166
Std Dev 1.122

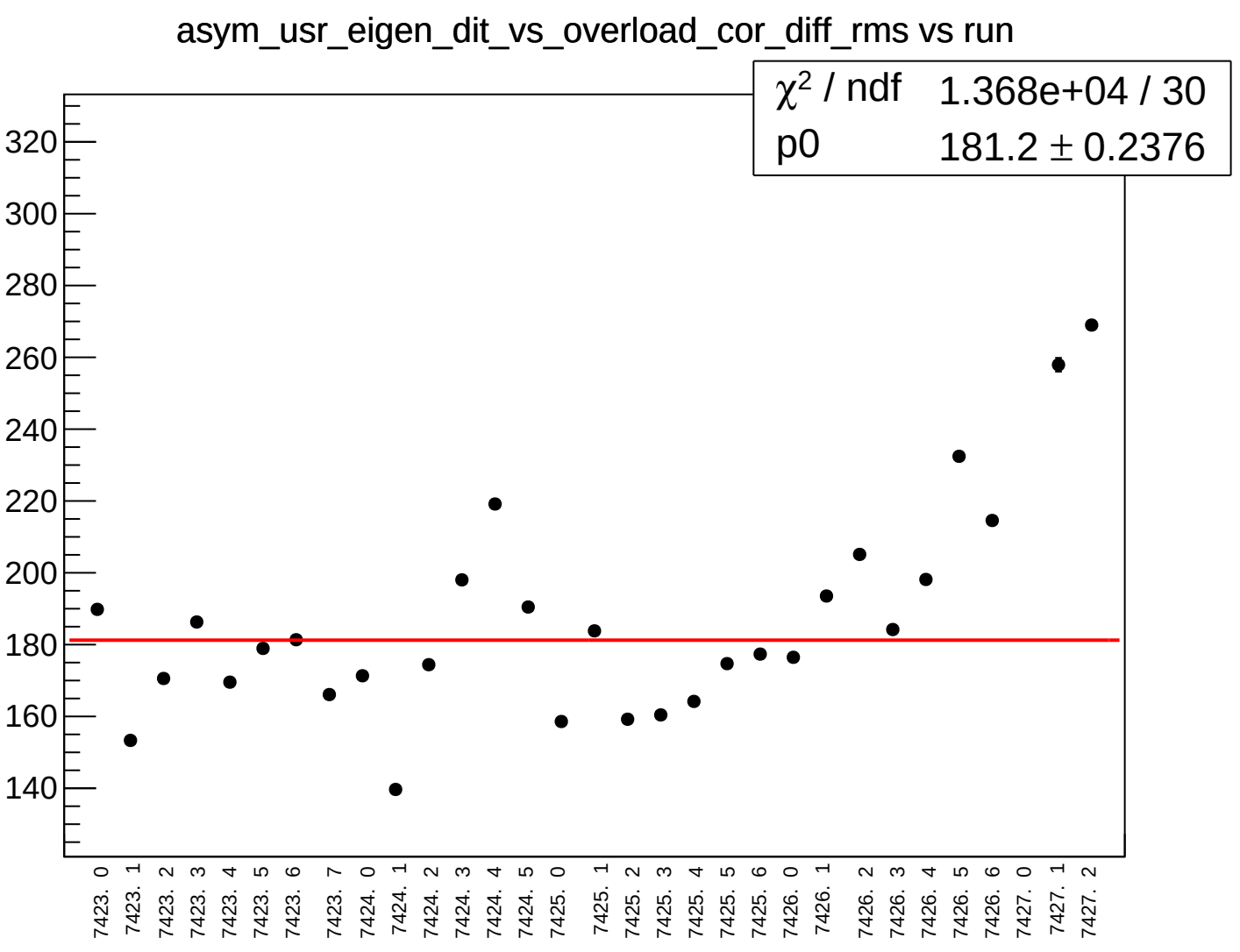

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.874e+04 / 30
p0 141.4 ± 0.1861
280
260
240
220
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

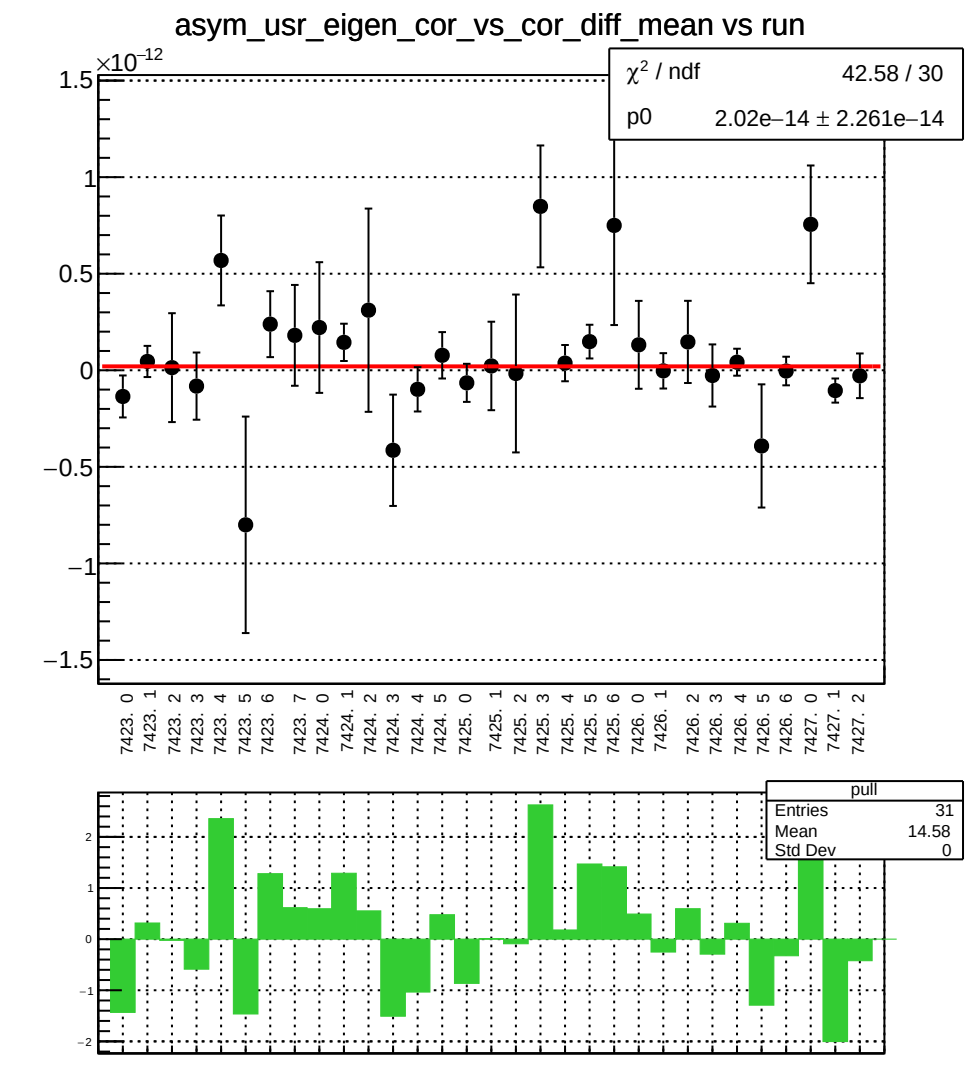
asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run

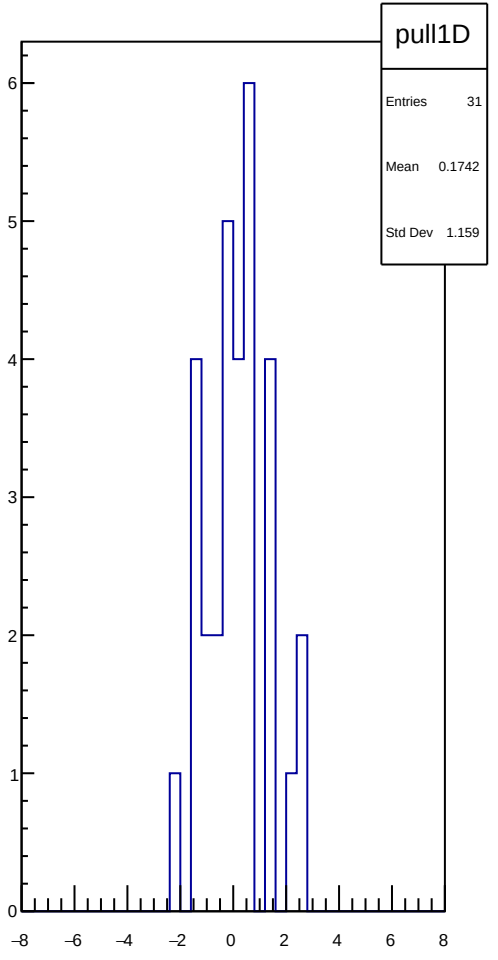


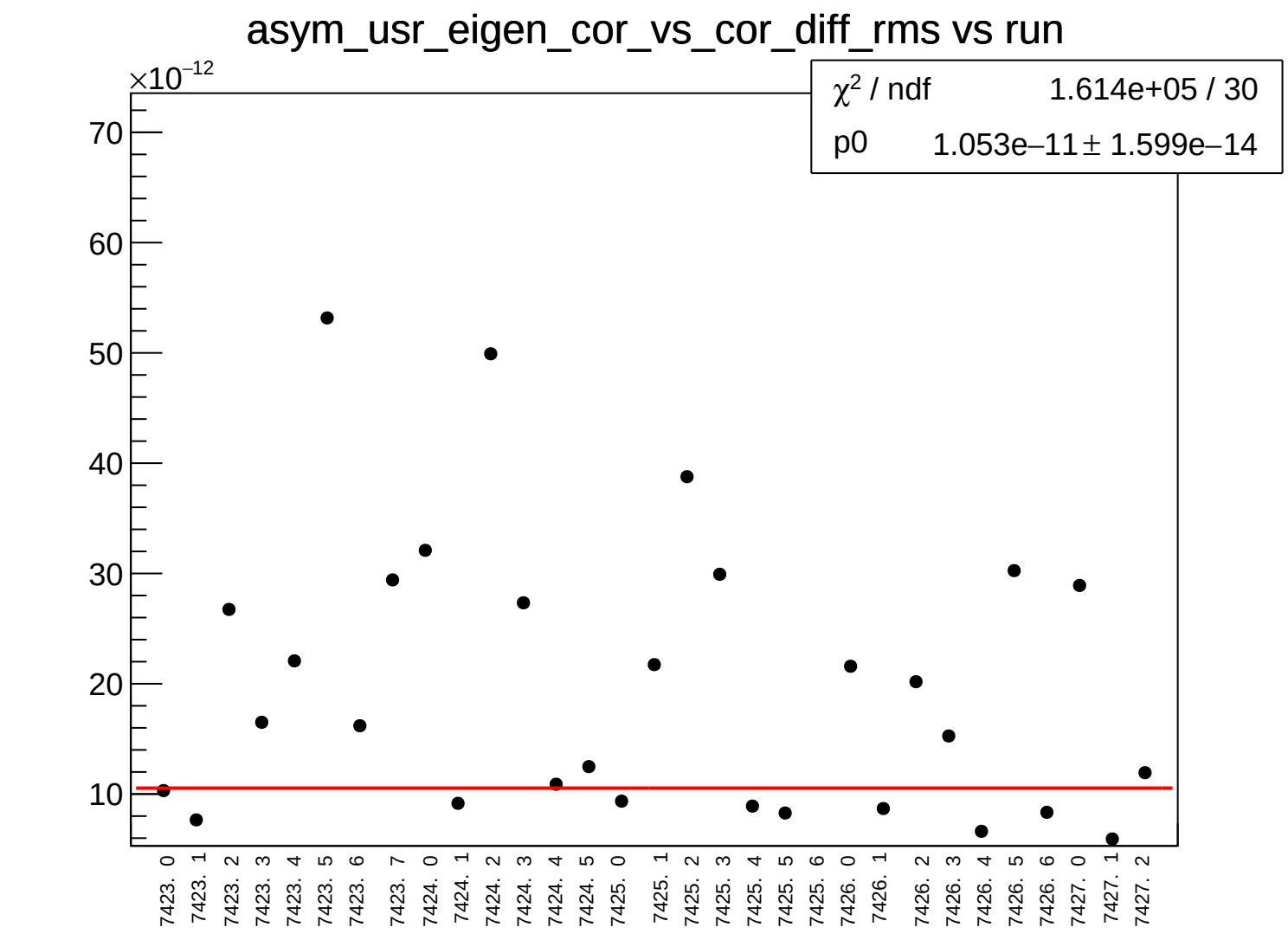


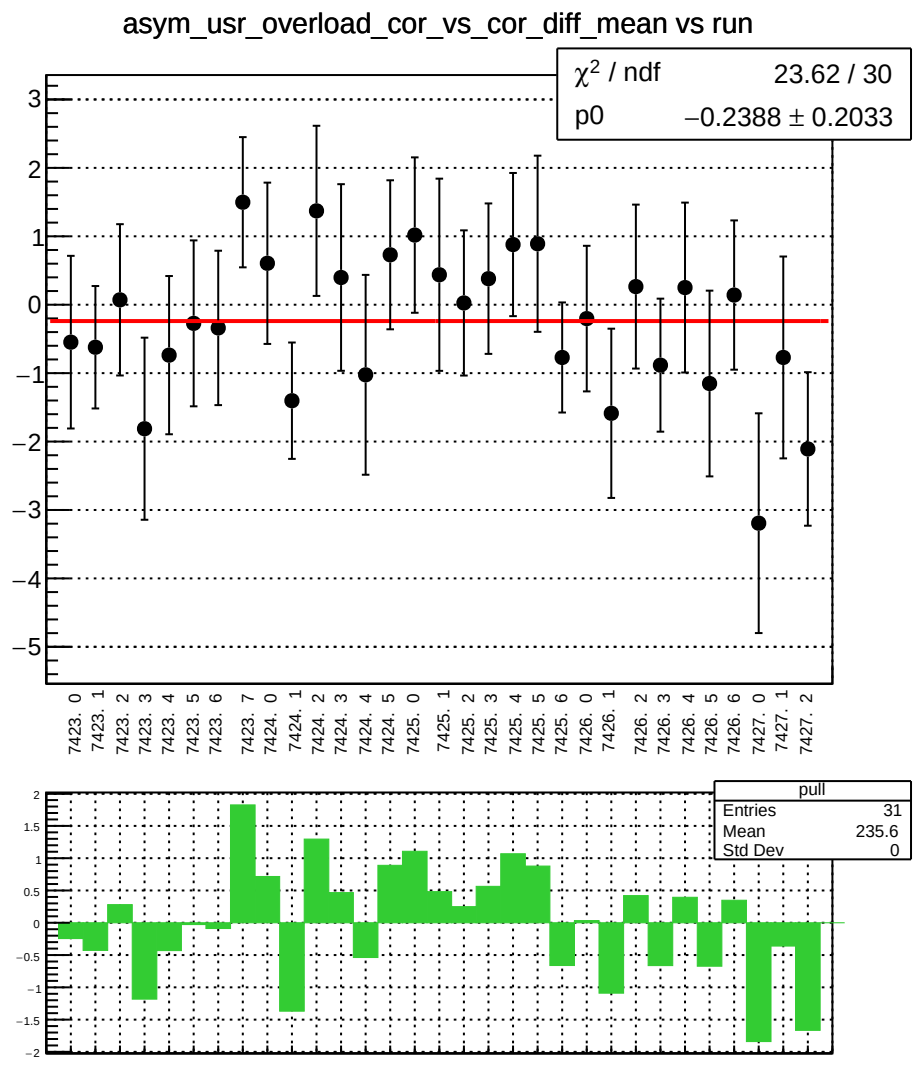


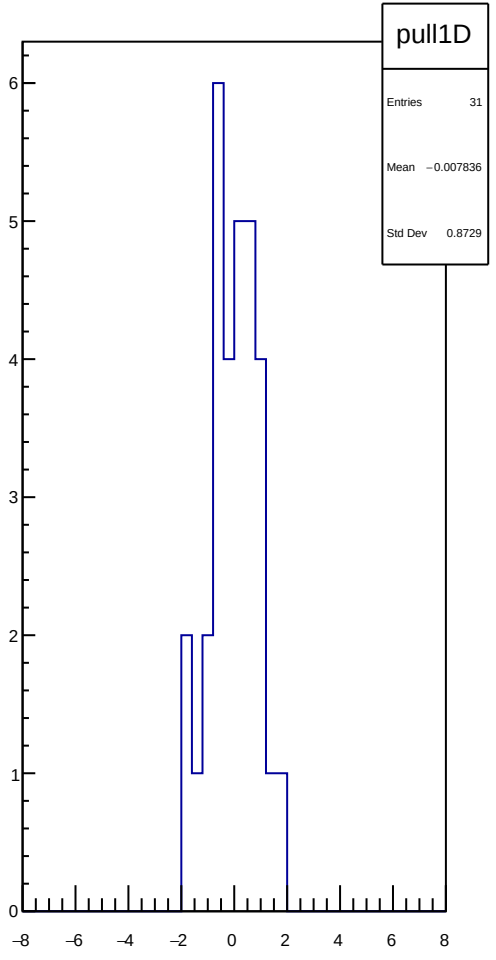

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.368e+04 / 30
p0 181.2 ± 0.2376
320
300
280
260
240
220
200
180
160
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

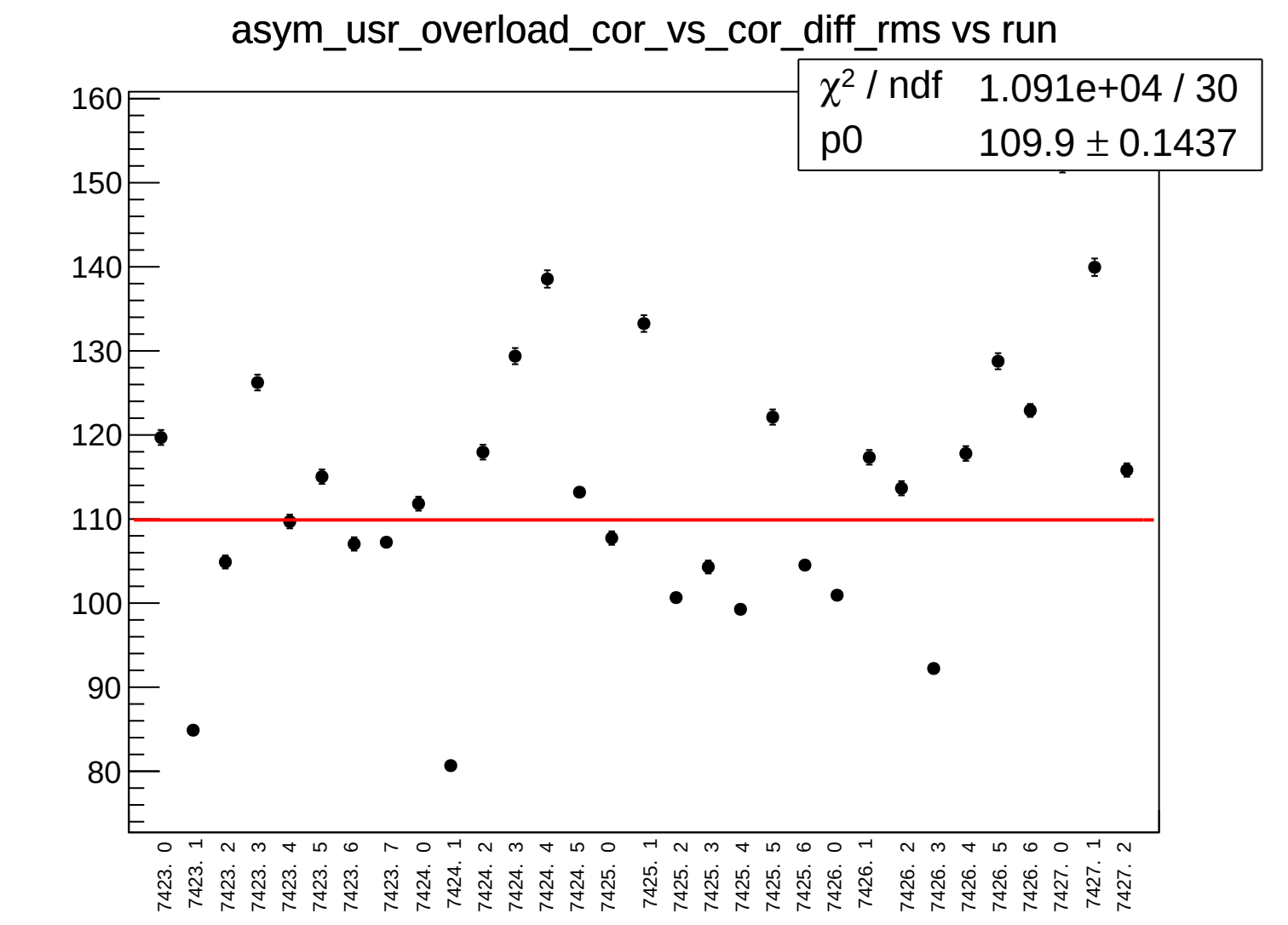

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 42.58 / 30
p0 2.02e−14 ± 2.261e−14
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.58
Std Dev 0
2
1
0
−1
−2

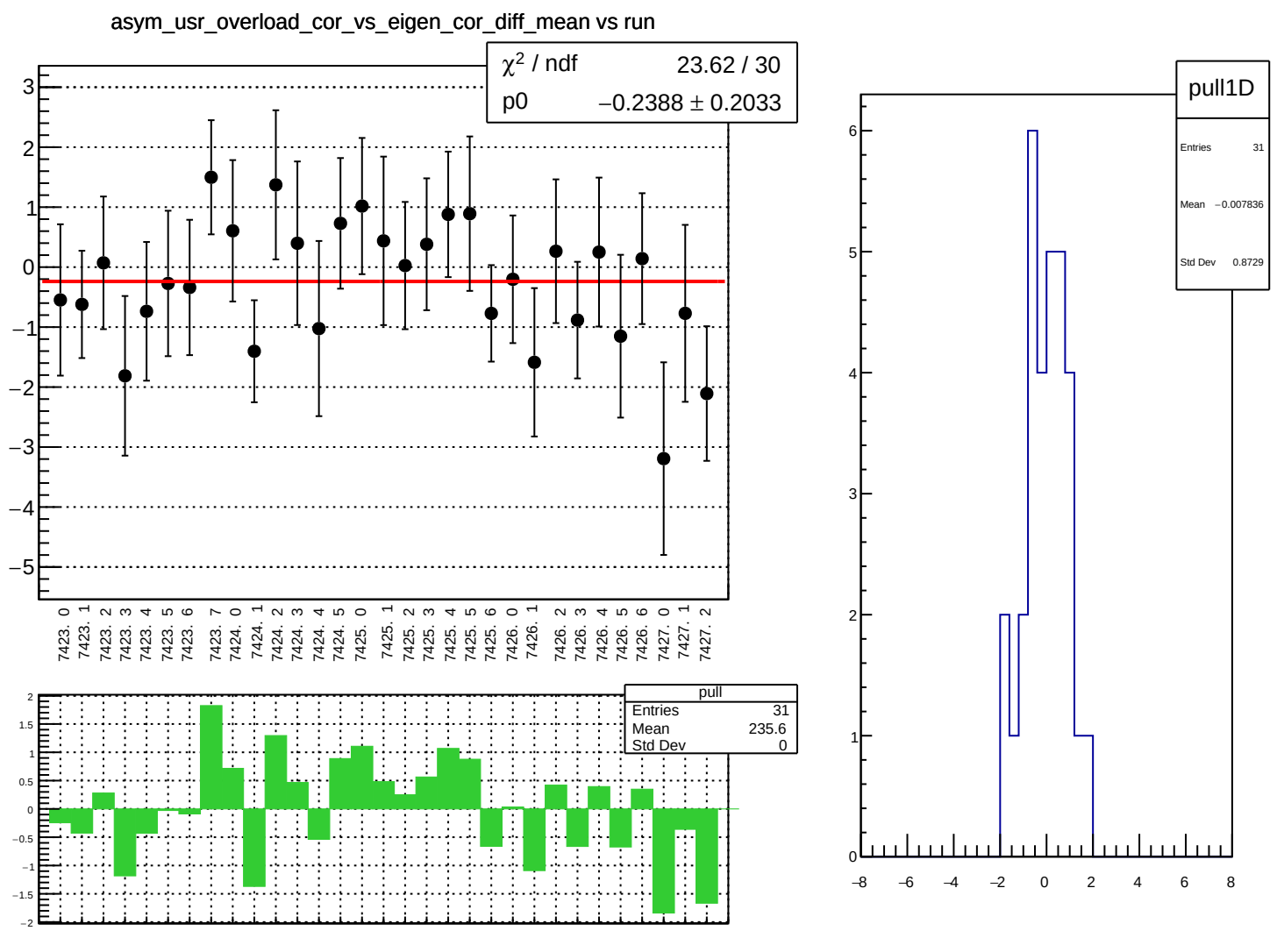

pull1D
Entries 31
Mean 0.1742
Std Dev 1.159
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

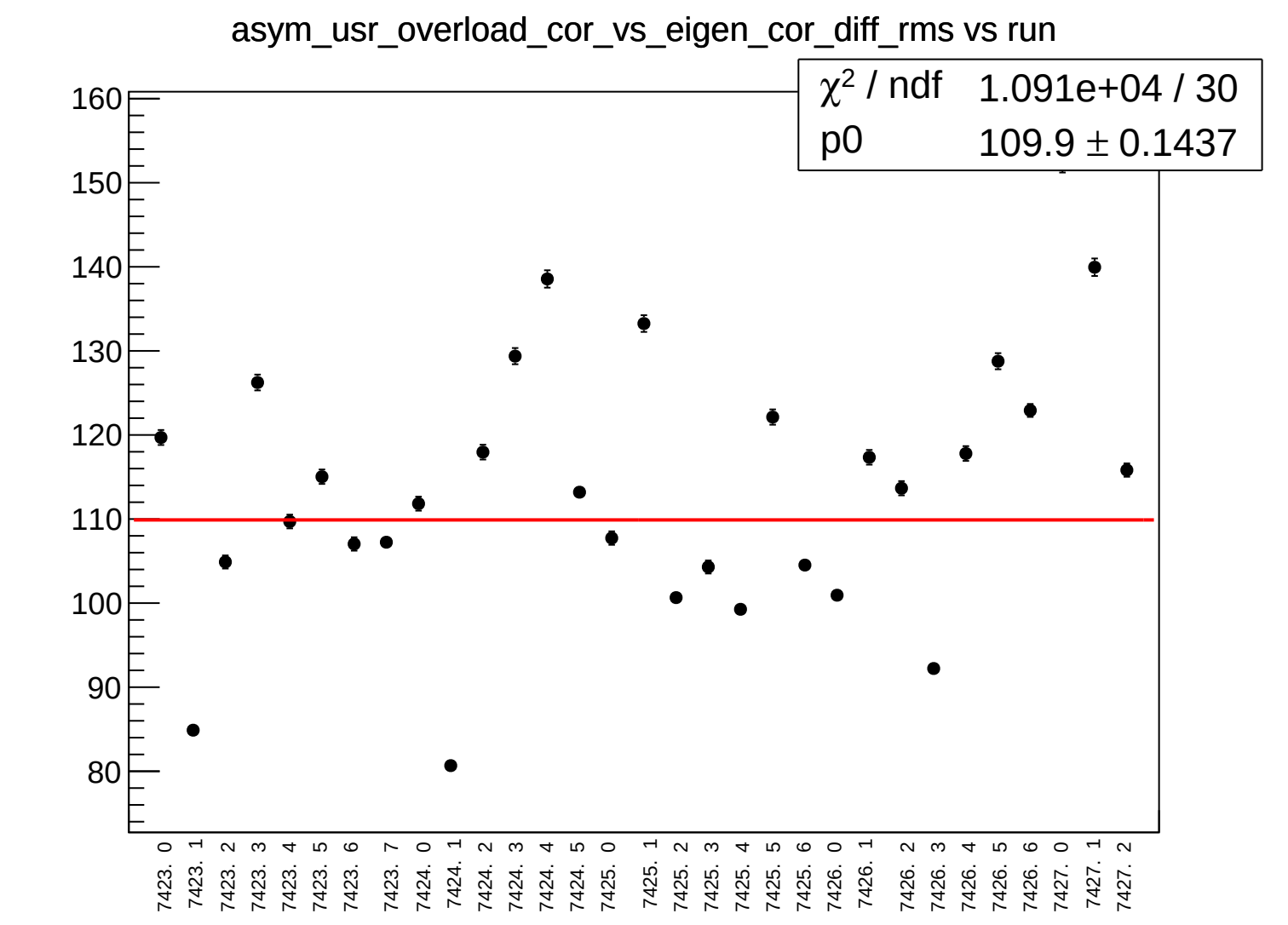

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.614e+05 / 30
p0 1.053e−11 ± 1.599e−14
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

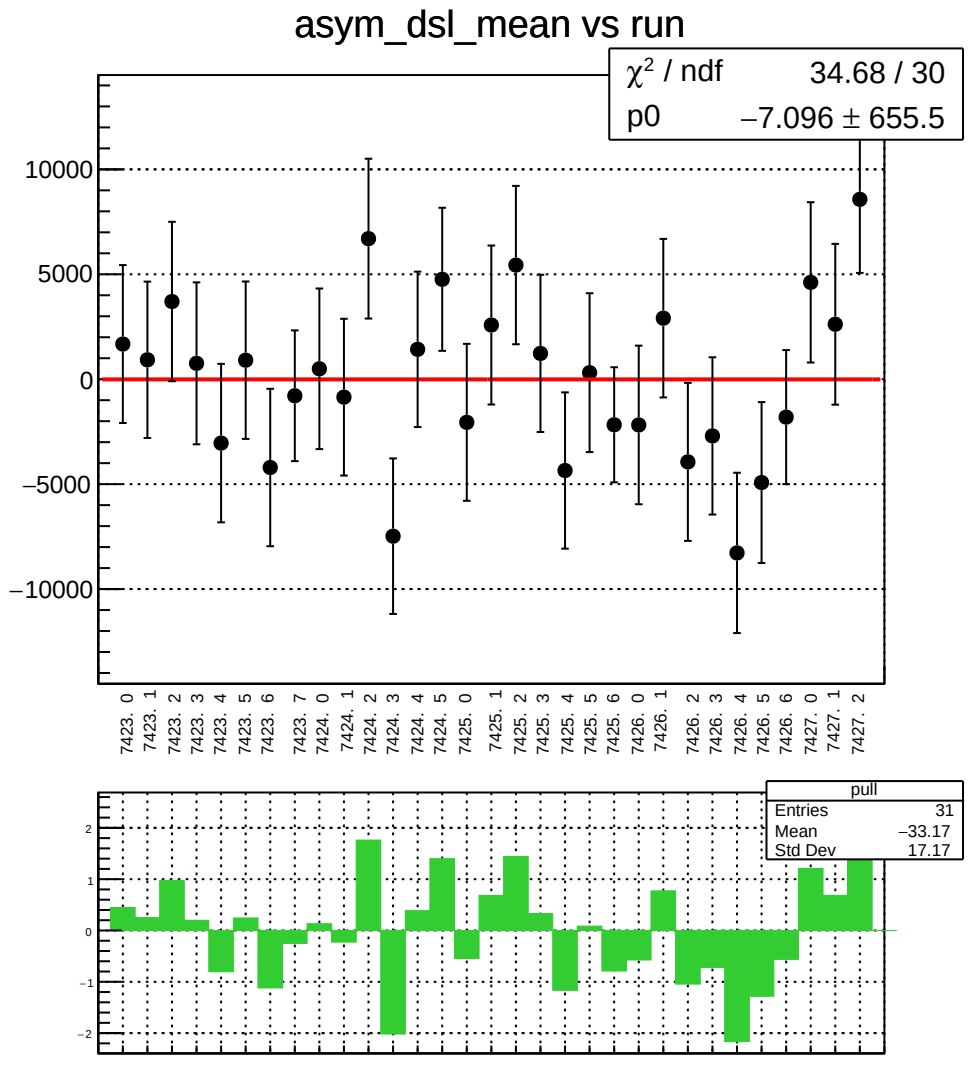

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 23.62 / 30
p0 −0.2388 ± 0.2033
3
2
1
0
−1
−2
−3
−4
−5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 235.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

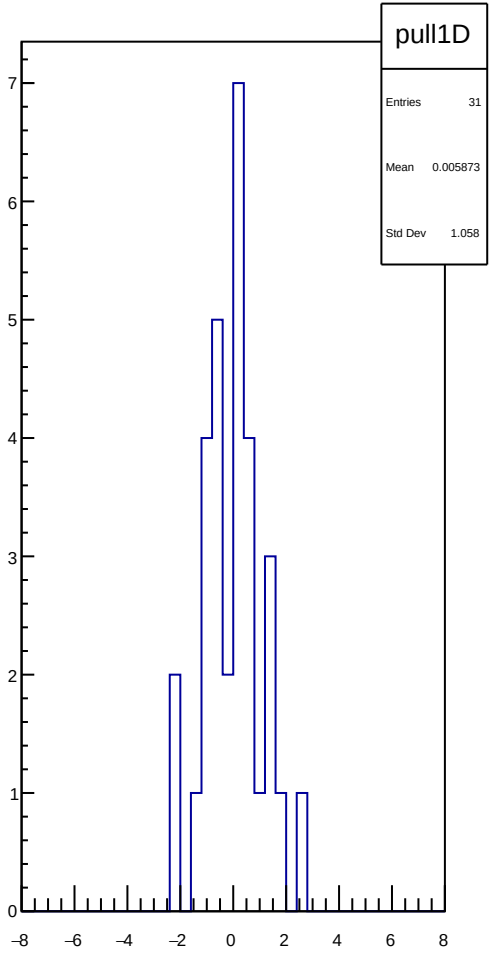

pull1D
Entries 31
Mean −0.007836
Std Dev 0.8729
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

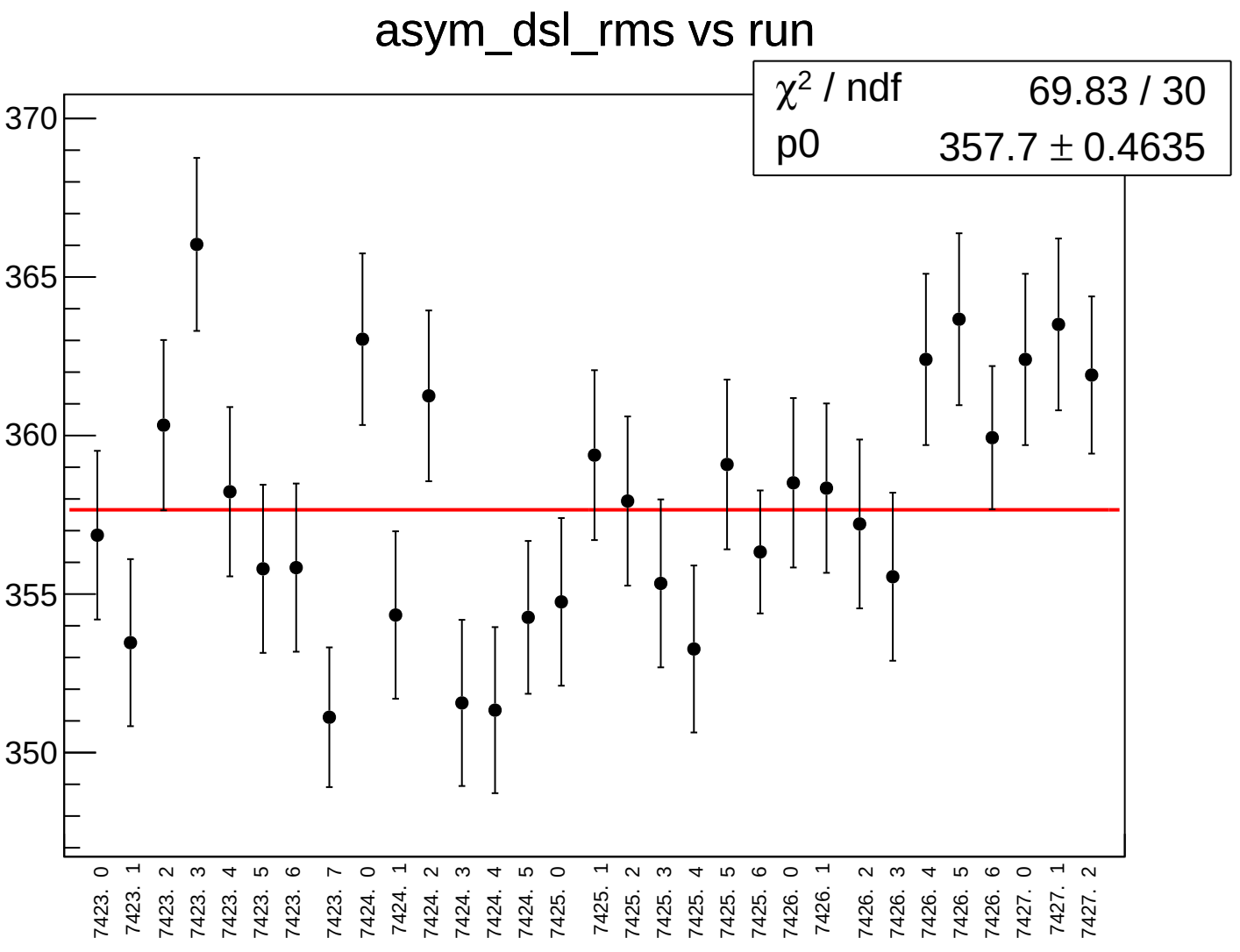

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.091e+04 / 30
p0 109.9 ± 0.1437
160
150
140
130
120
110
100
90
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

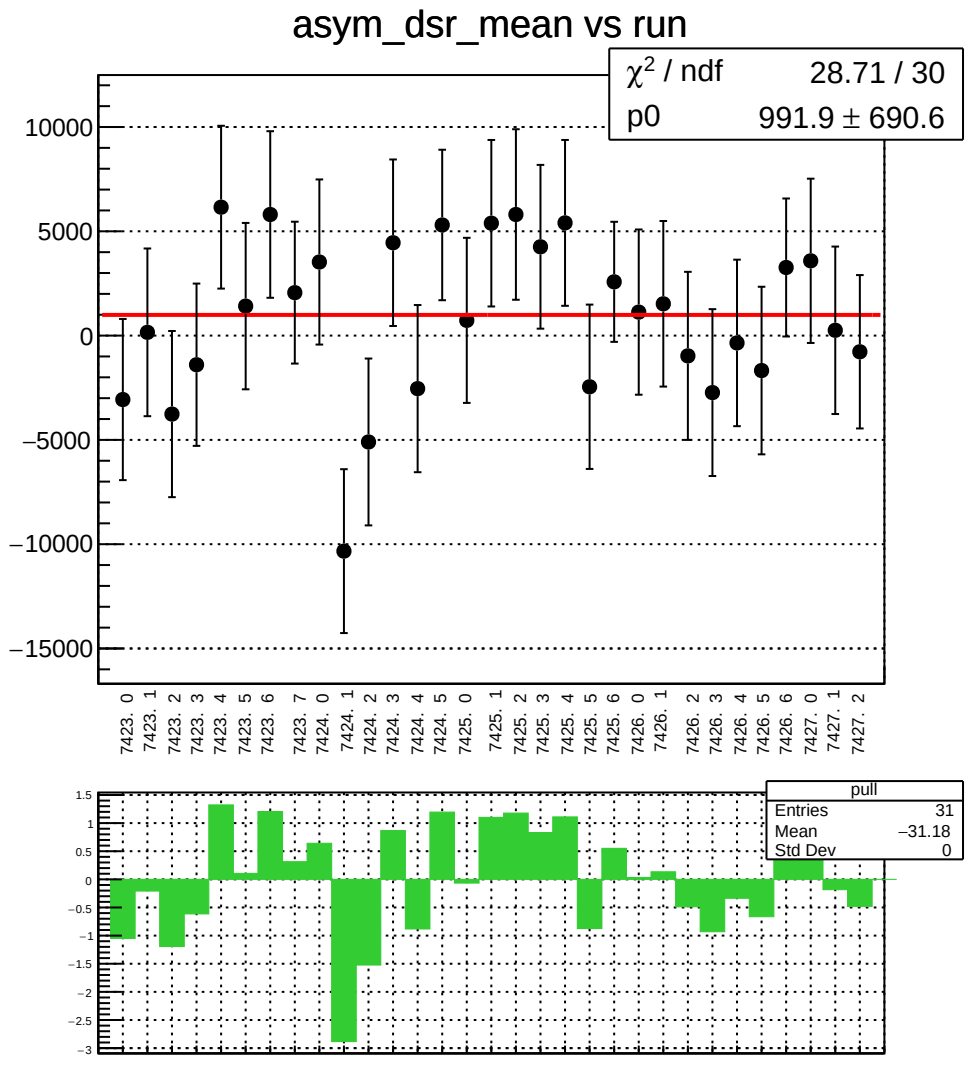

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.62 / 30
p0 −0.2388 ± 0.2033
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 235.6
Std Dev 0
pull1D
Entries 31
Mean −0.007836
Std Dev 0.8729

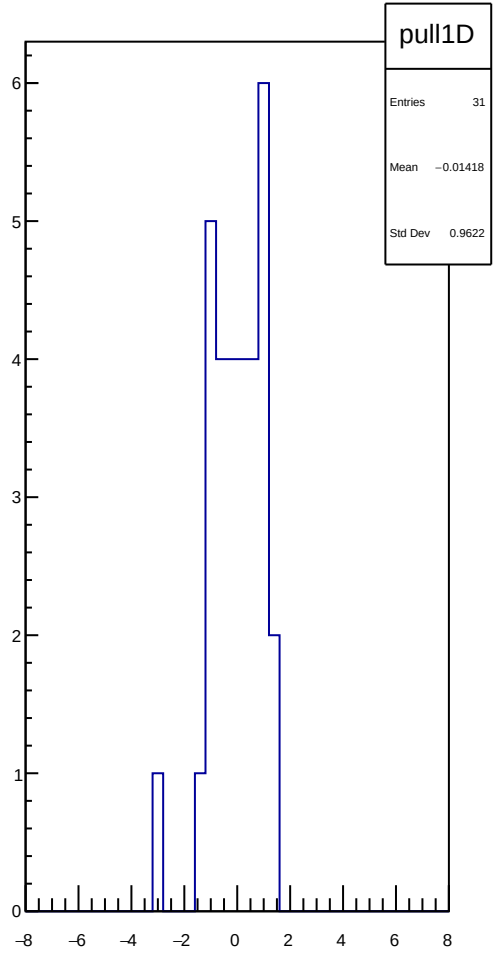

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.091e+04 / 30
p0 109.9 ± 0.1437
160
150
140
130
120
110
100
90
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

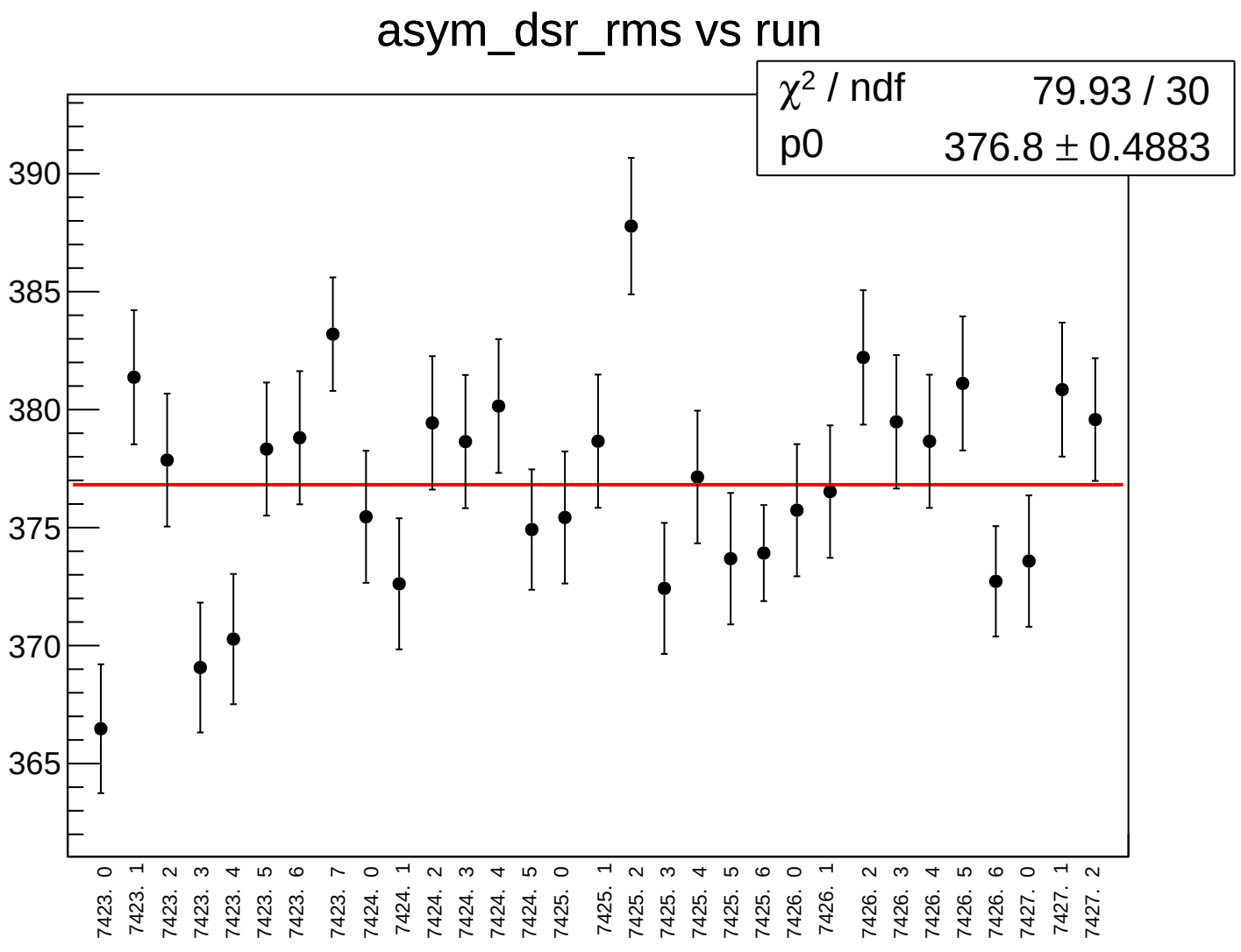

asym_dsl_mean vs run
χ² / ndf 34.68 / 30
p0 −7.096 ± 655.5
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −33.17
Std Dev 17.17
2
1
0
−1
−2

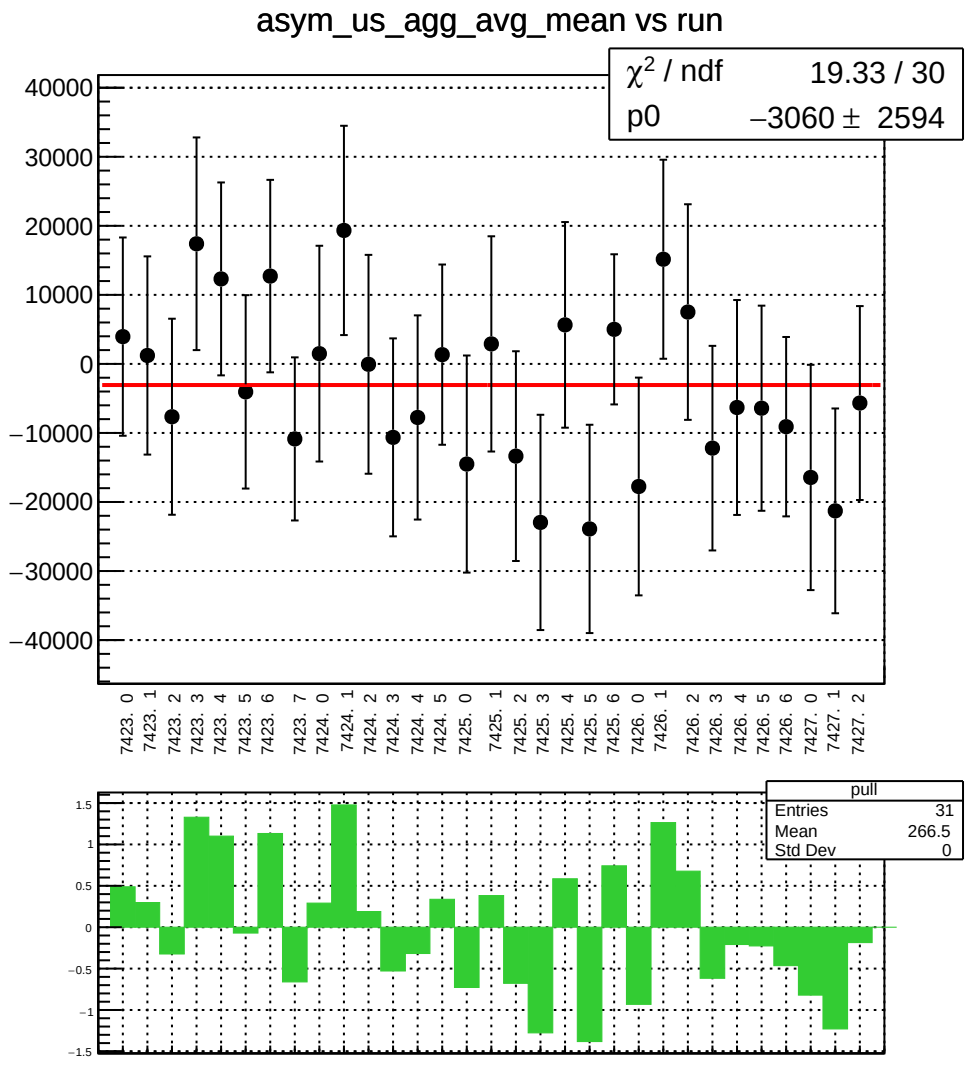

pull1D
Entries 31
Mean 0.005873
Std Dev 1.058
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

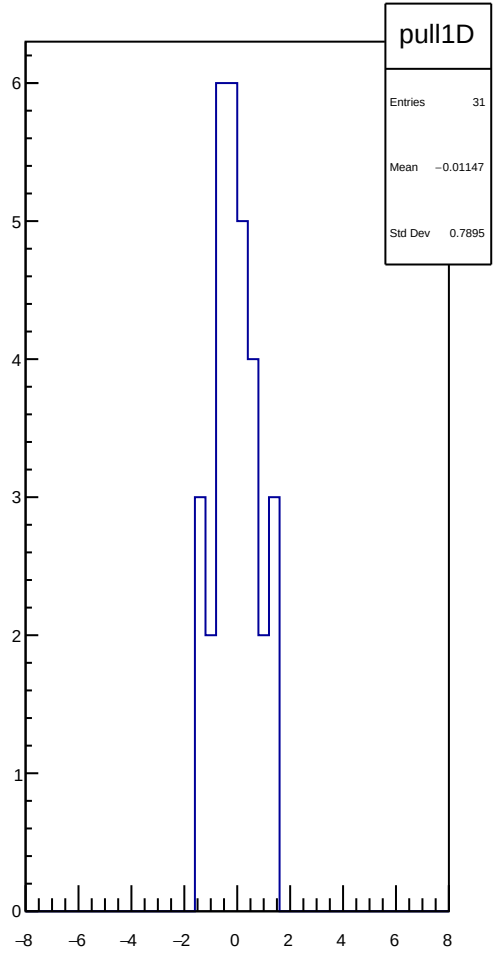

asym_dsl_rms vs run
χ² / ndf 69.83 / 30
p0 357.7 ± 0.4635
370
365
360
355
350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

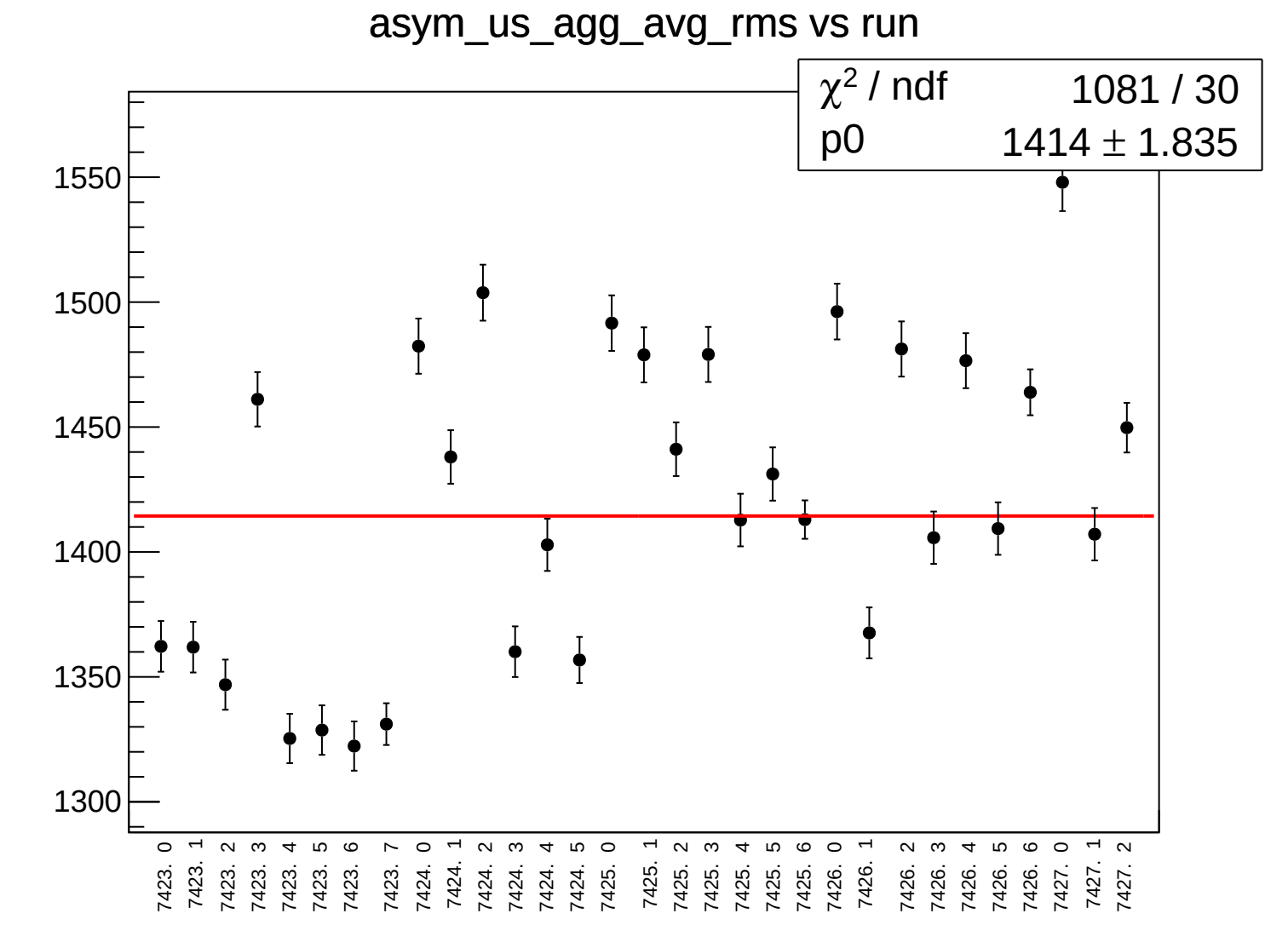

asym_dsr_mean vs run
χ² / ndf 28.71 / 30
p0 991.9 ± 690.6
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −31.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

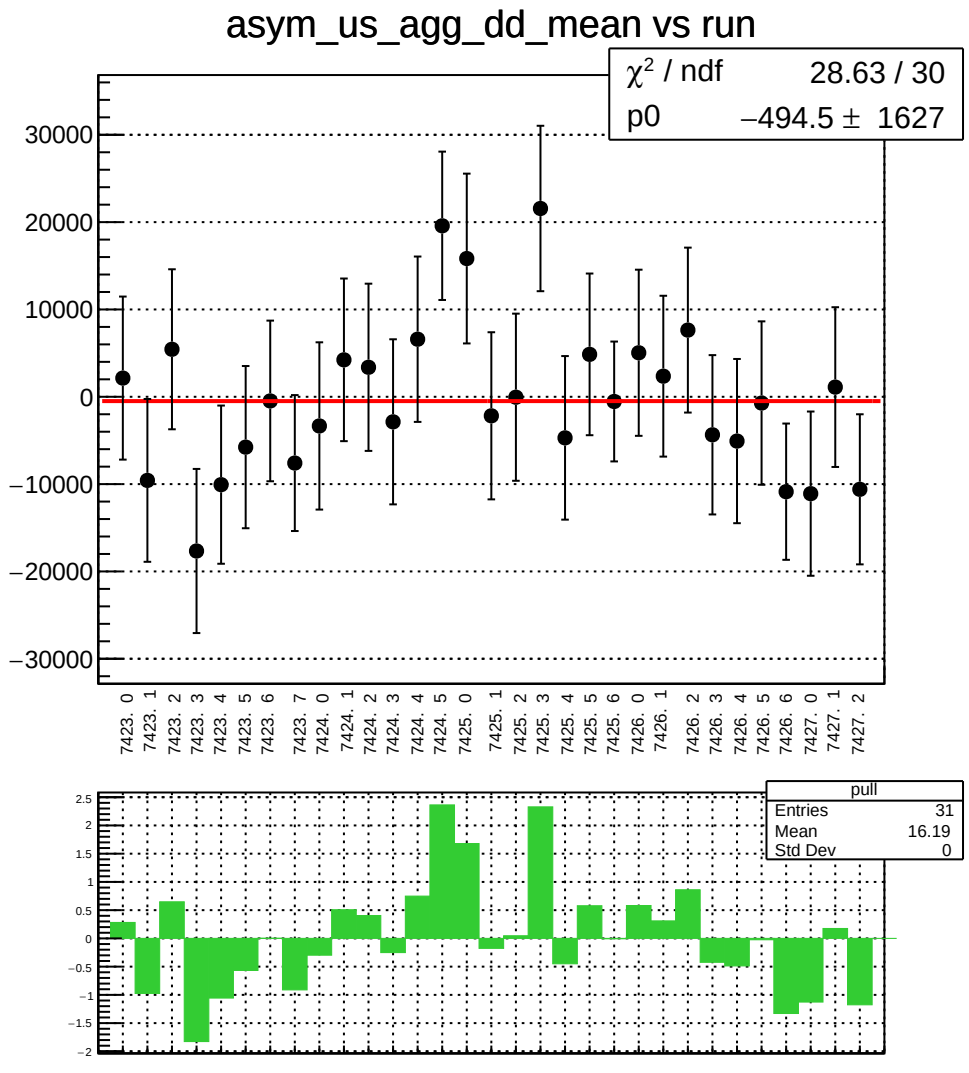

pull1D
Entries 31
Mean −0.01418
Std Dev 0.9622
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

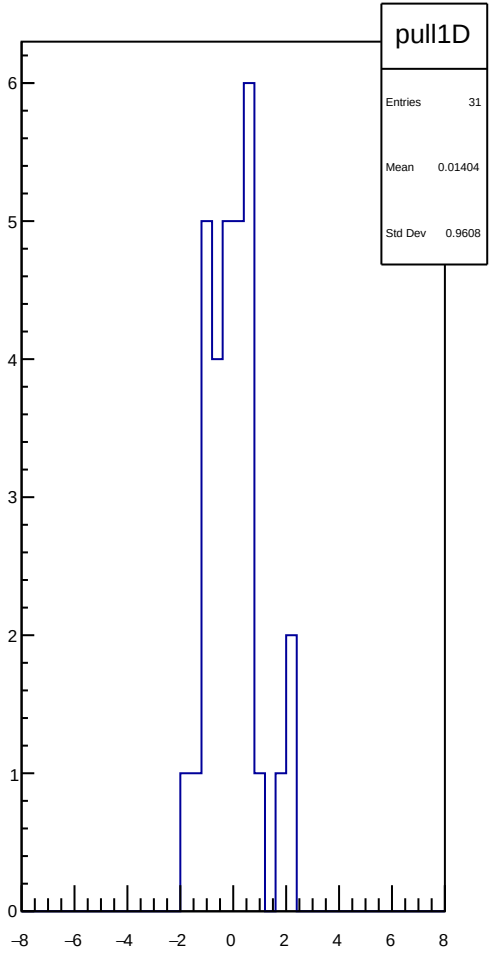

asym_dsr_rms vs run
χ² / ndf 79.93 / 30
p0 376.8 ± 0.4883
390
385
380
375
370
365
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

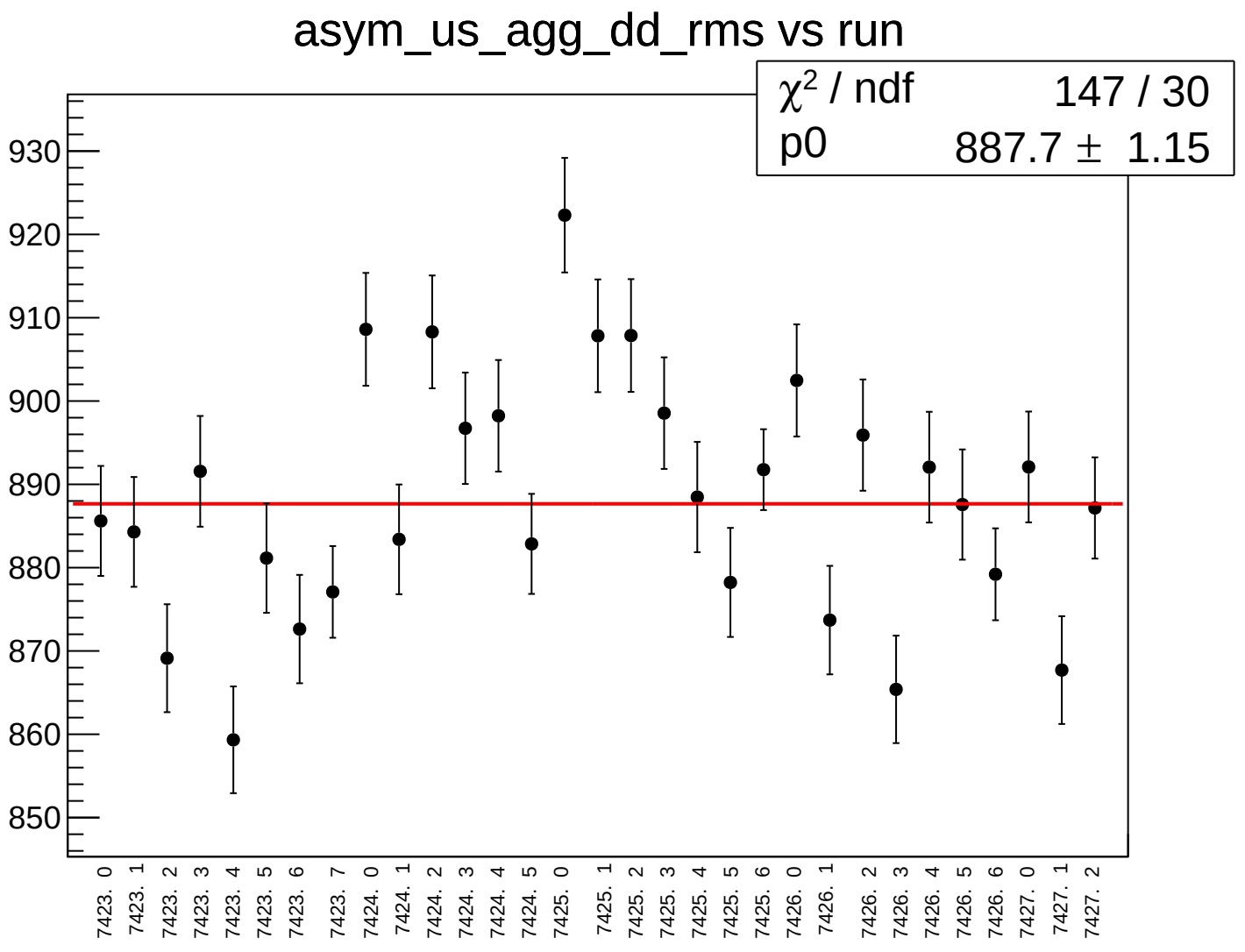

asym_us_agg_avg_mean vs run
χ² / ndf 19.33 / 30
p0 −3060 ± 2594
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 266.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

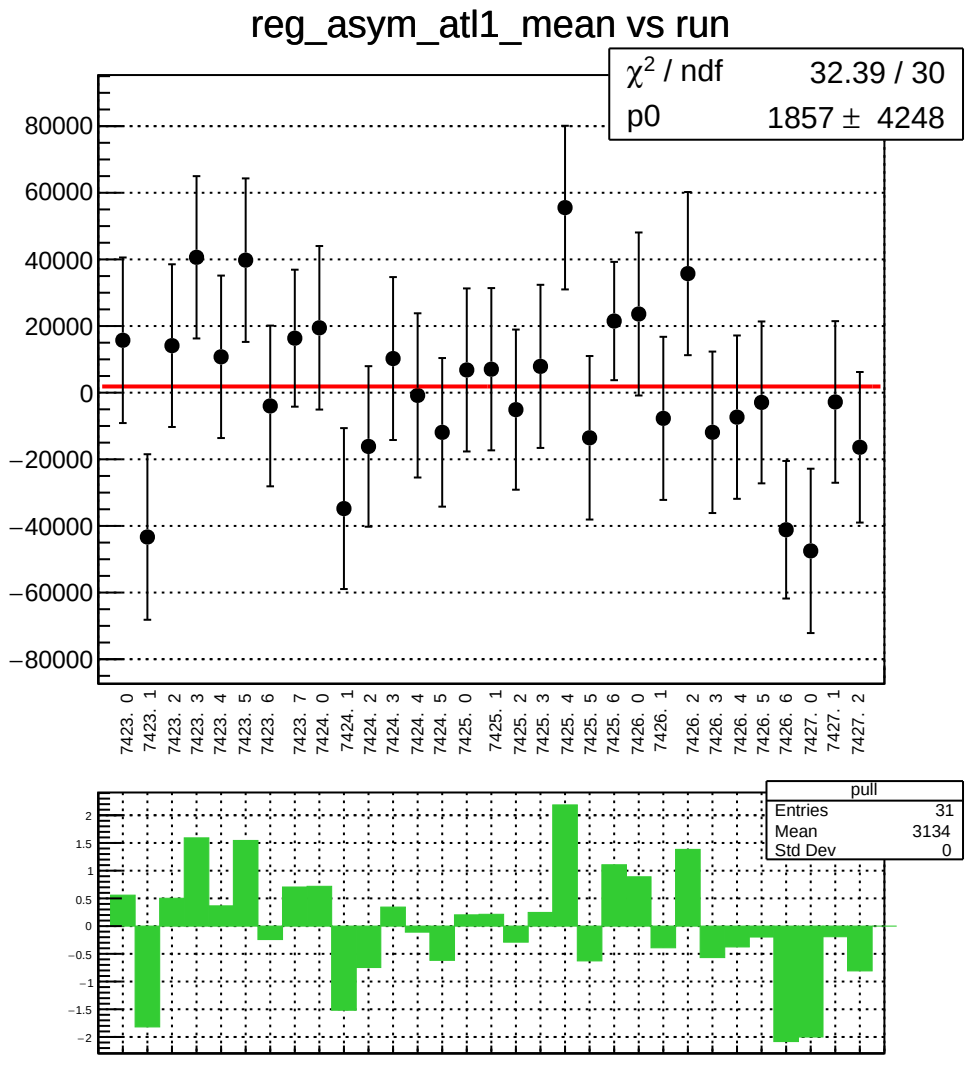

pull1D
Entries 31
Mean −0.01147
Std Dev 0.7895
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

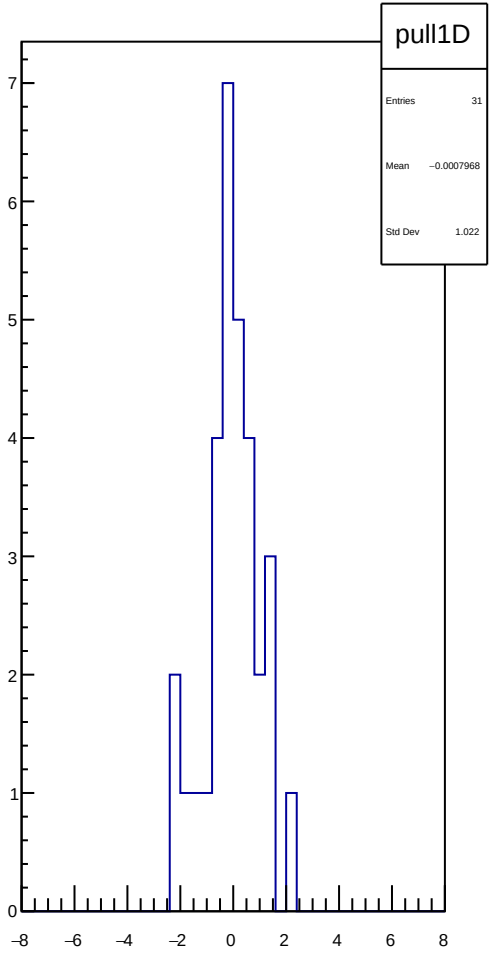

asym_us_agg_avg_rms vs run
χ^2 / ndf 1081 / 30
p0 1414 ± 1.835
1550
1500
1450
1400
1350
1300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

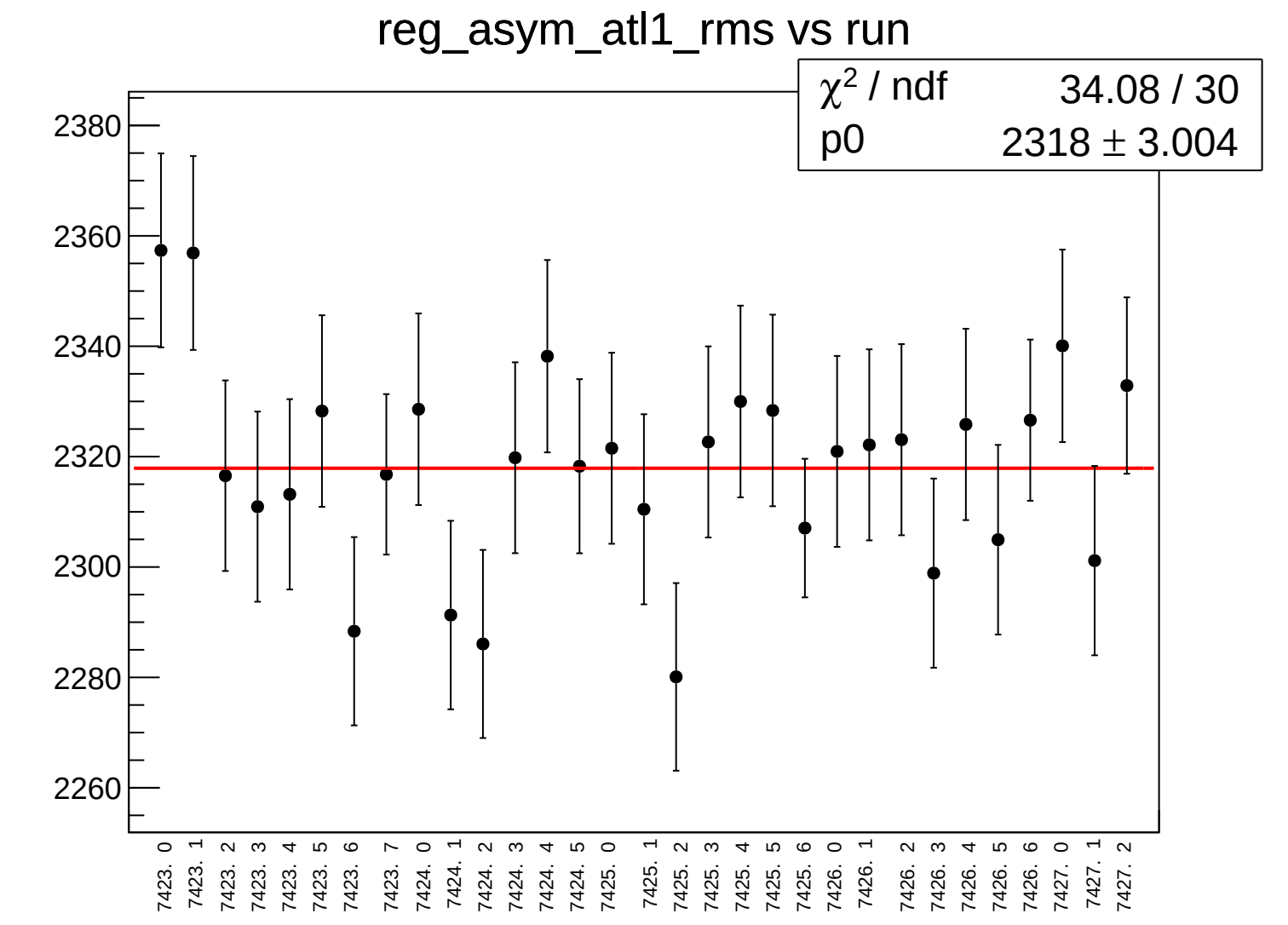

asym_us_agg_dd_mean vs run
χ² / ndf 28.63 / 30
p0 −494.5 ± 1627
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.19
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

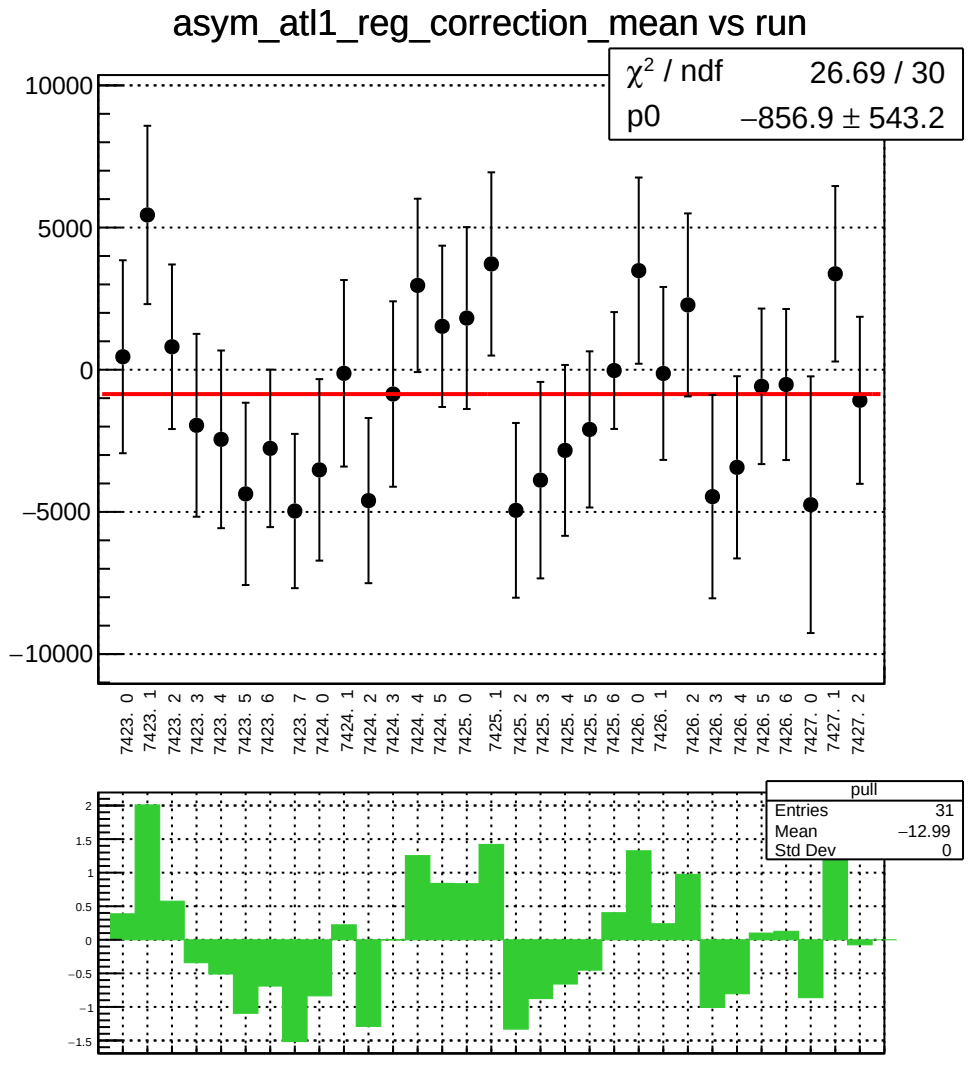

pull1D
Entries 31
Mean 0.01404
Std Dev 0.9608
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

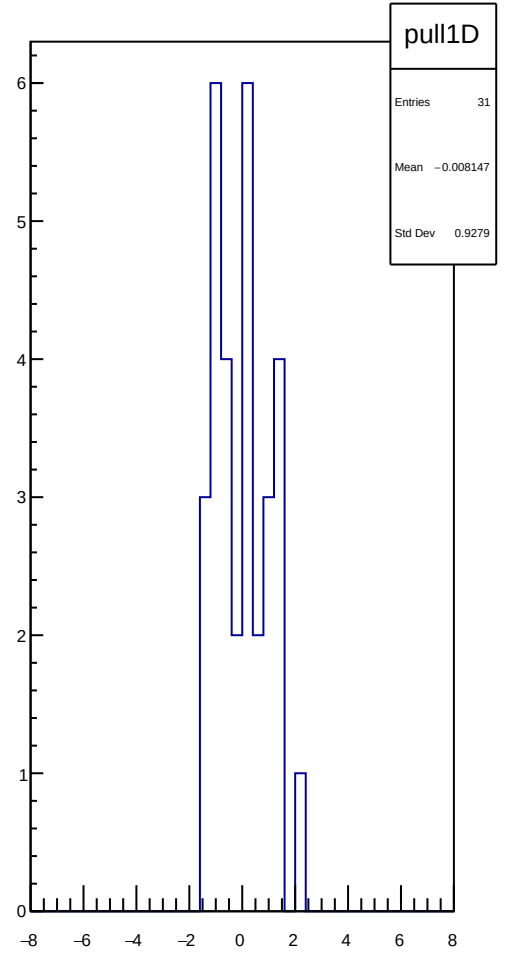

asym_us_agg_dd_rms vs run
χ² / ndf 147 / 30
p0 887.7 ± 1.15
930
920
910
900
890
880
870
860
850
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


reg_asym_atl1_mean vs run
χ² / ndf 32.39 / 30
p0 1857 ± 4248
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 3134
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.0007968
Std Dev 1.022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_rms vs run
χ² / ndf 34.08 / 30
p0 2318 ± 3.004
2380
2360
2340
2320
2300
2280
2260
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2


asym_atl1_reg_correction_mean vs run
χ² / ndf 26.69 / 30
p0 −856.9 ± 543.2
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −12.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean −0.008147
Std Dev 0.9279
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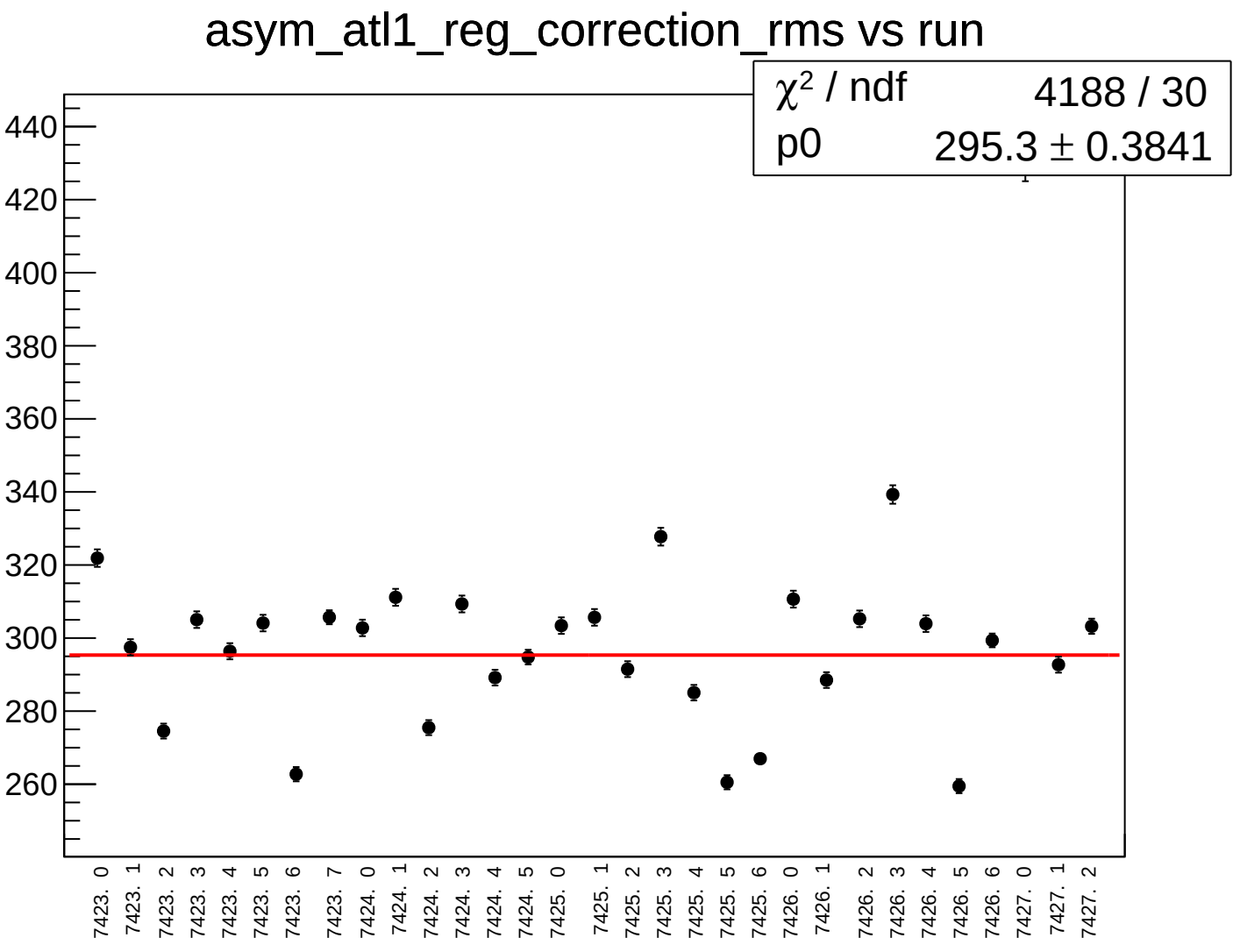
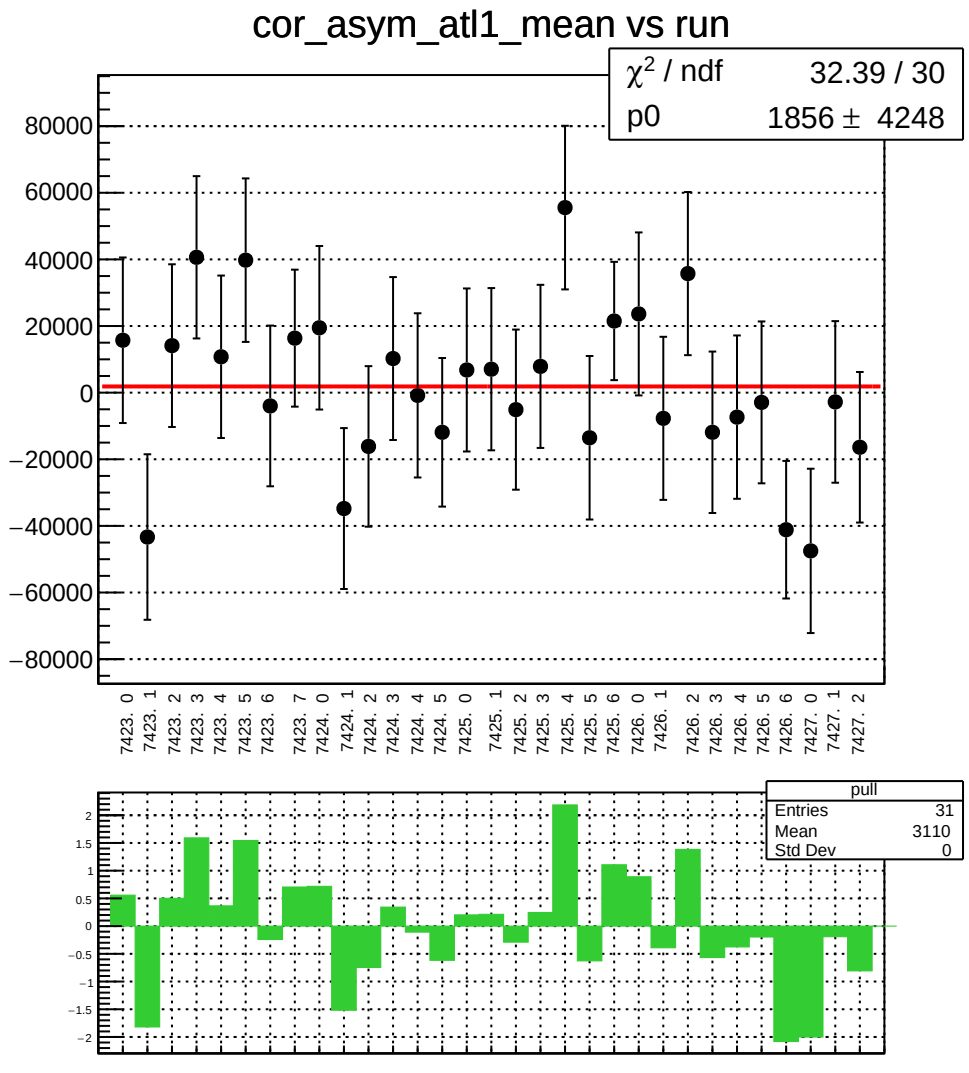
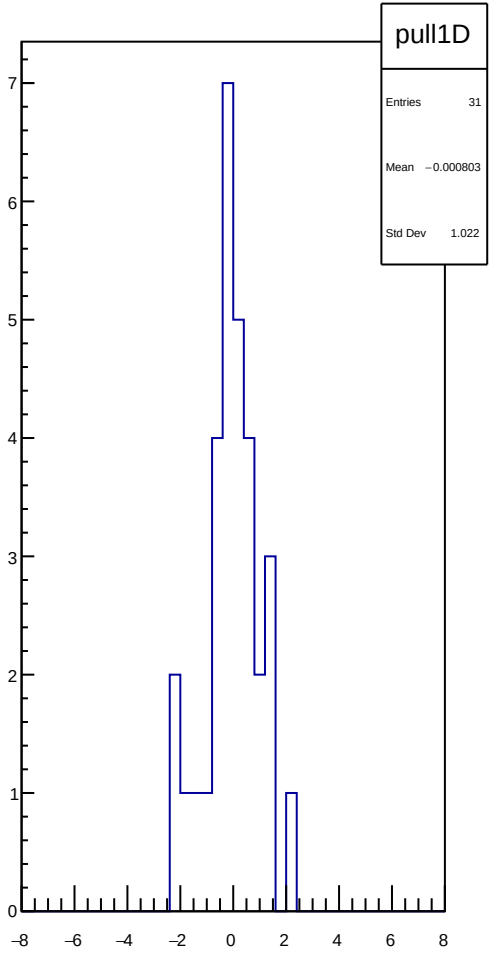
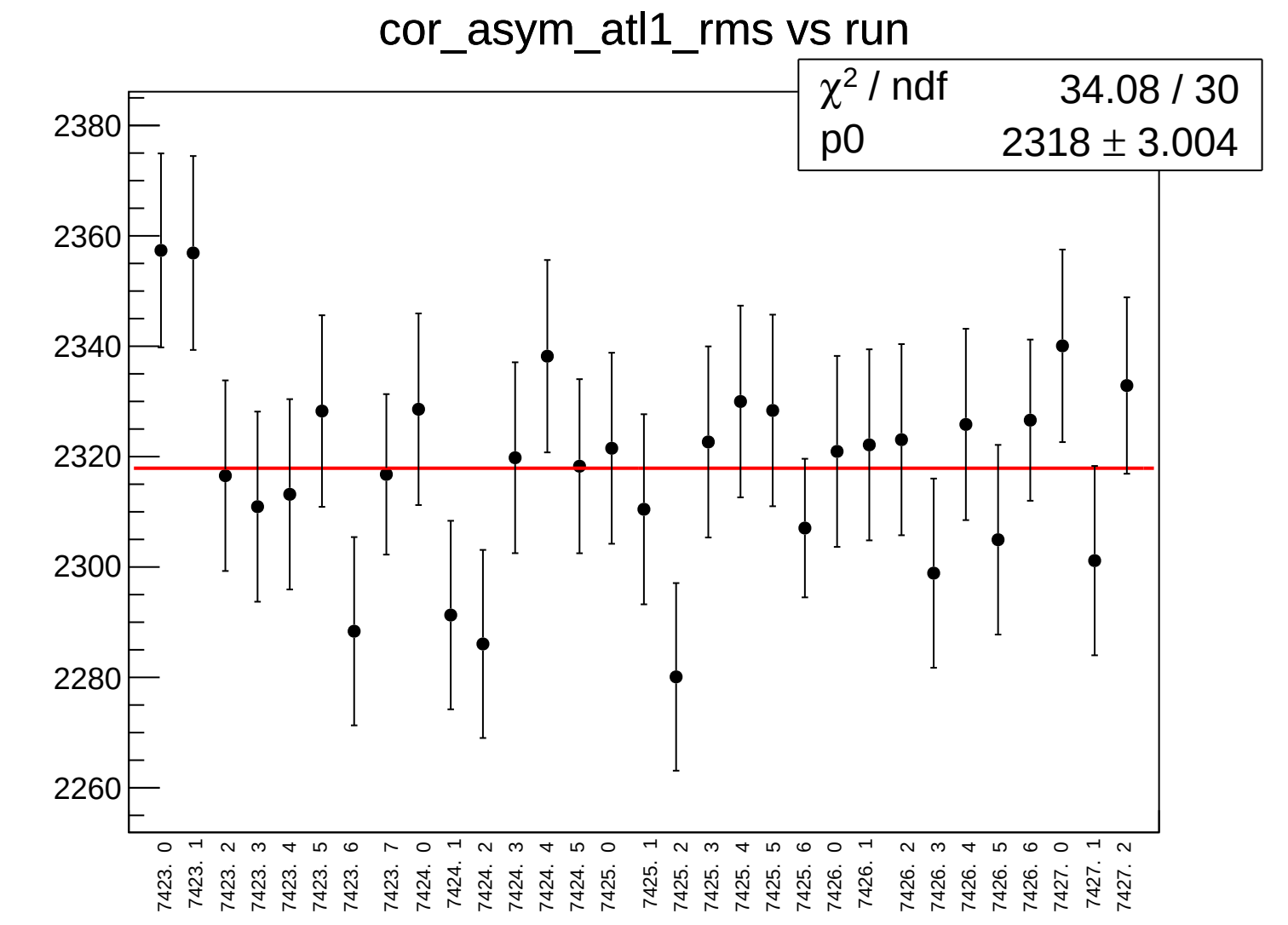
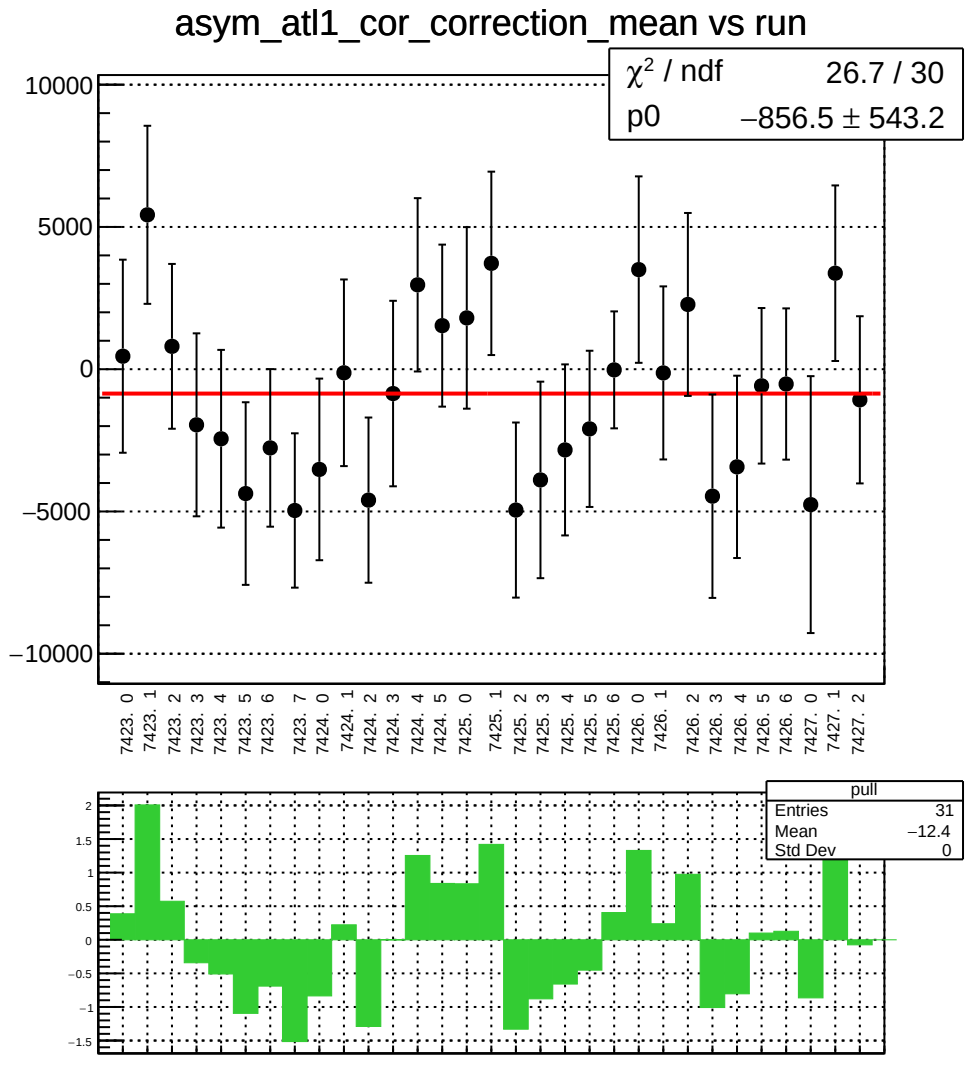
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

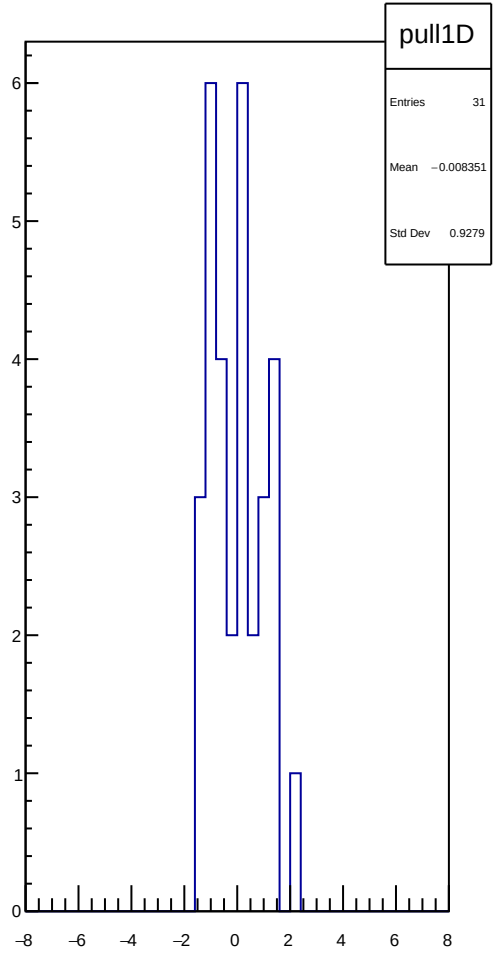

asym_atl1_reg_correction_rms vs run
χ² / ndf 4188 / 30
p0 295.3 ± 0.3841
440
420
400
380
360
340
320
300
280
260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


cor_asym_atl1_mean vs run
χ² / ndf 32.39 / 30
p0 1856 ± 4248
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 3110
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.000803
Std Dev 1.022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1_rms vs run
χ² / ndf 34.08 / 30
p0 2318 ± 3.004
2380
2360
2340
2320
2300
2280
2260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_atl1_cor_correction_mean vs run
χ² / ndf 26.7 / 30
p0 −856.5 ± 543.2
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −12.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean −0.008351
Std Dev 0.9279
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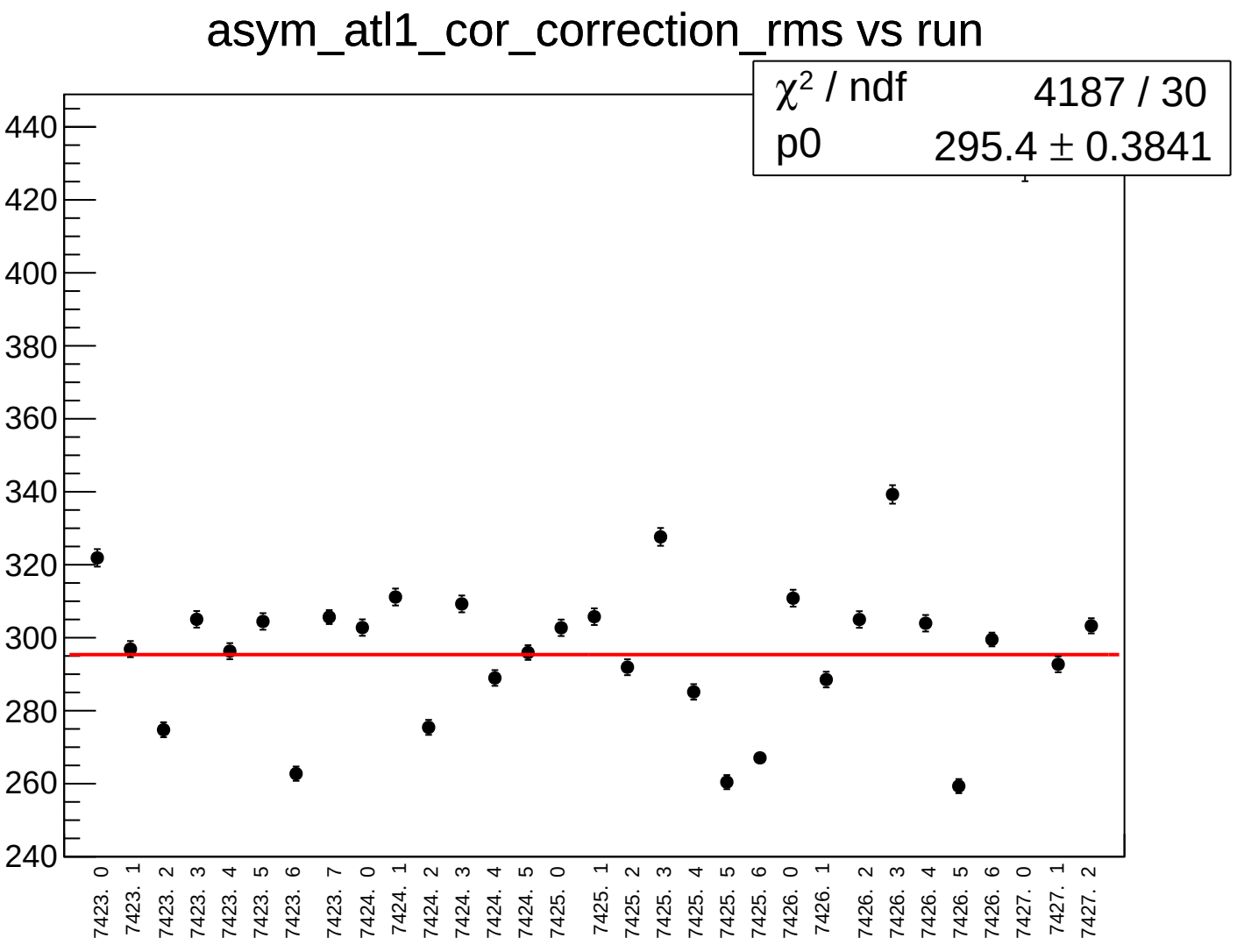
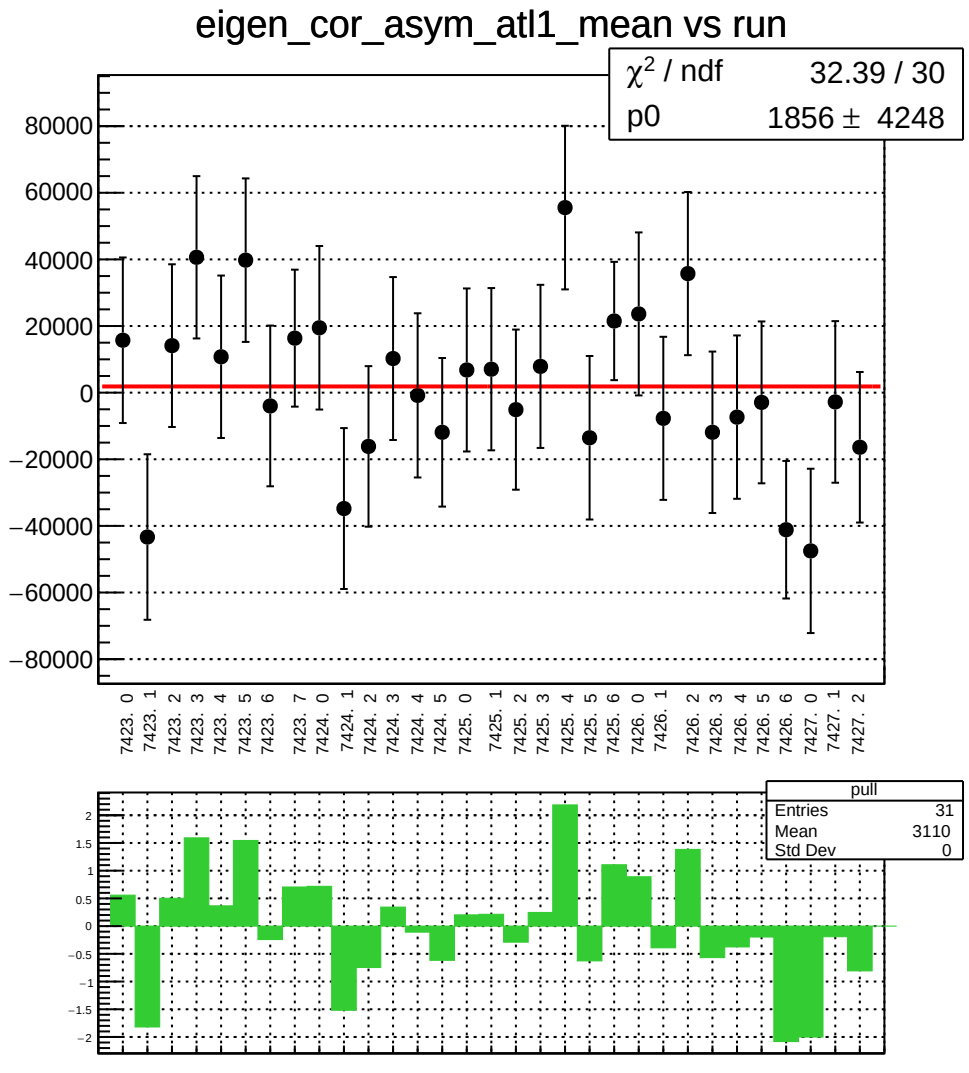
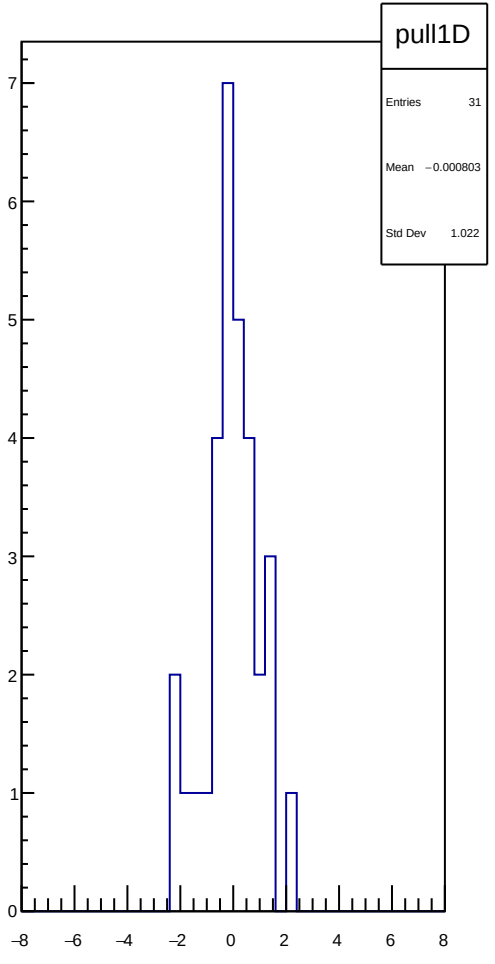
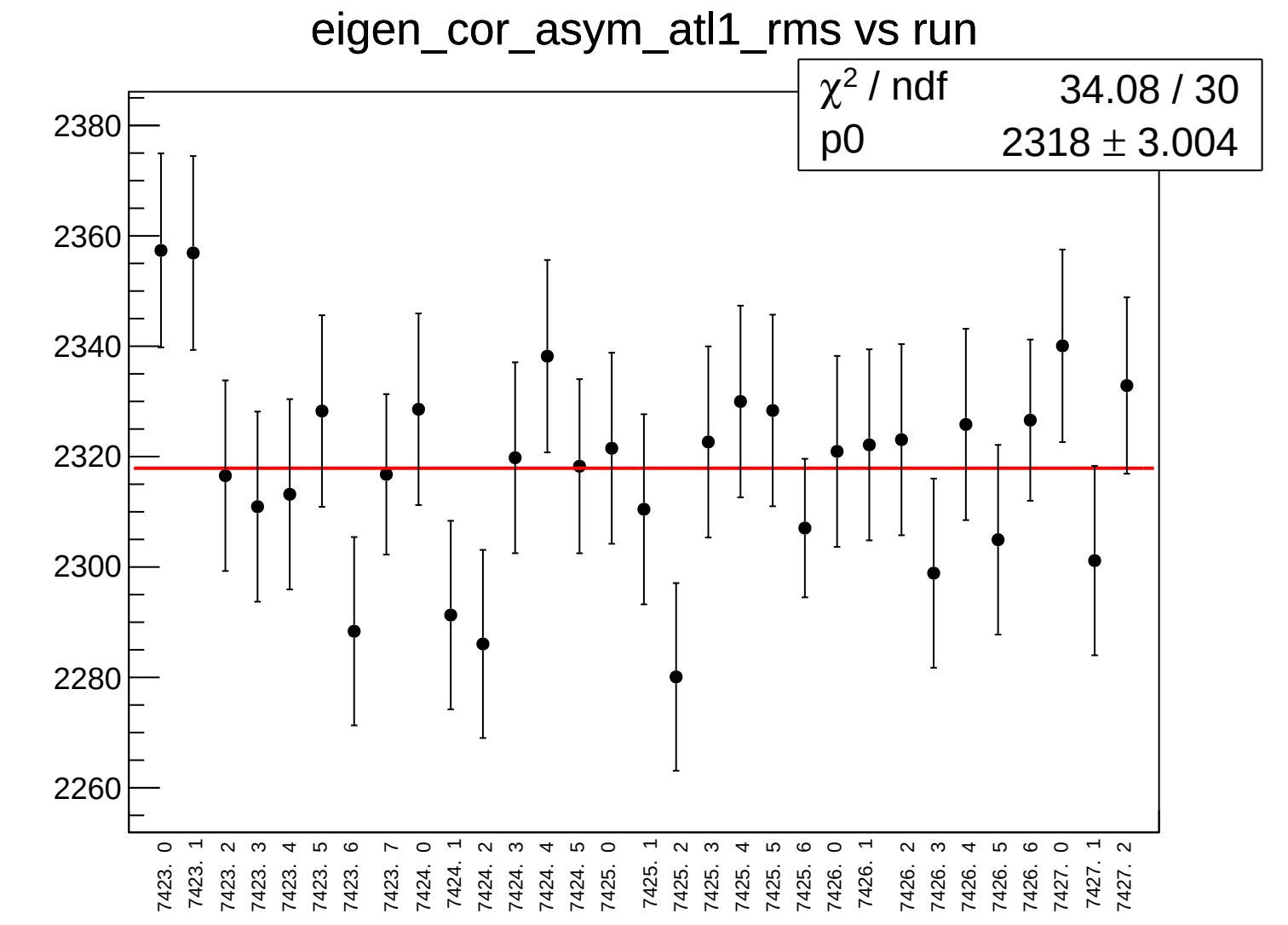
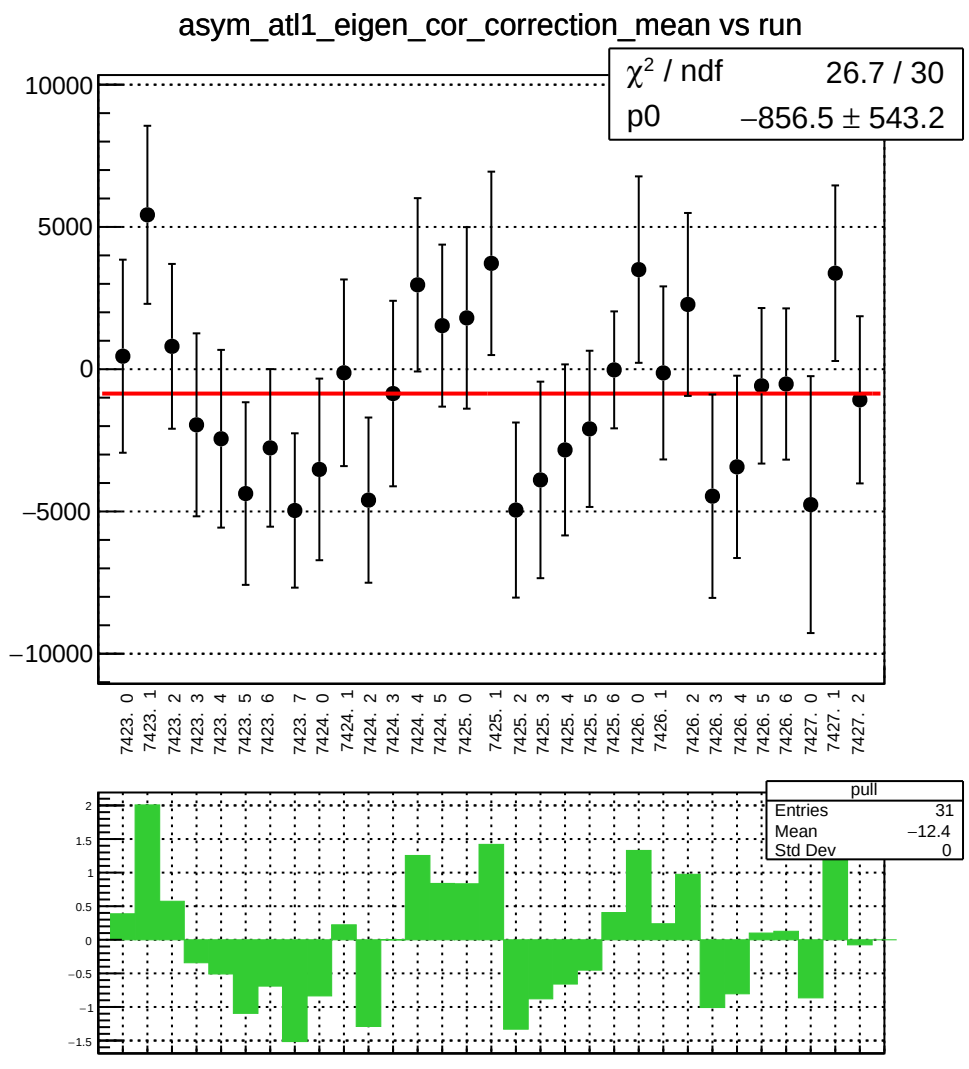
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

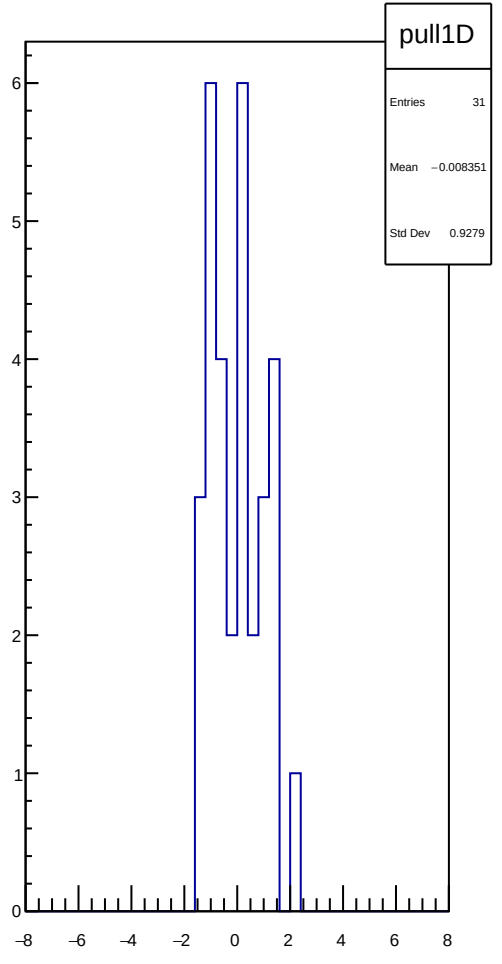

asym_atl1_cor_correction_rms vs run
χ² / ndf 4187 / 30
p0 295.4 ± 0.3841
440
420
400
380
360
340
320
300
280
260
240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

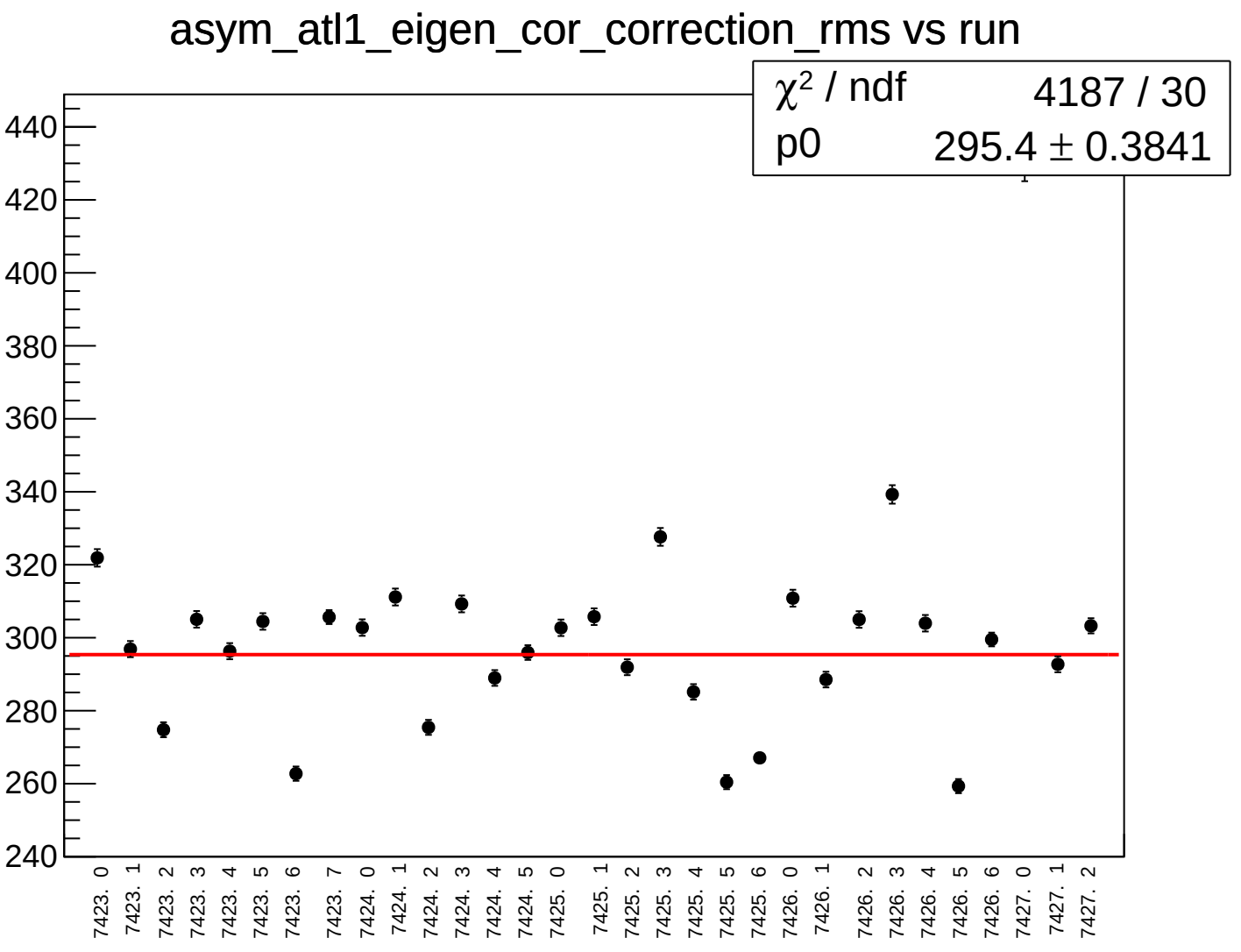

eigen_cor_asym_atl1_mean vs run
χ² / ndf 32.39 / 30
p0 1856 ± 4248
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 3110
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

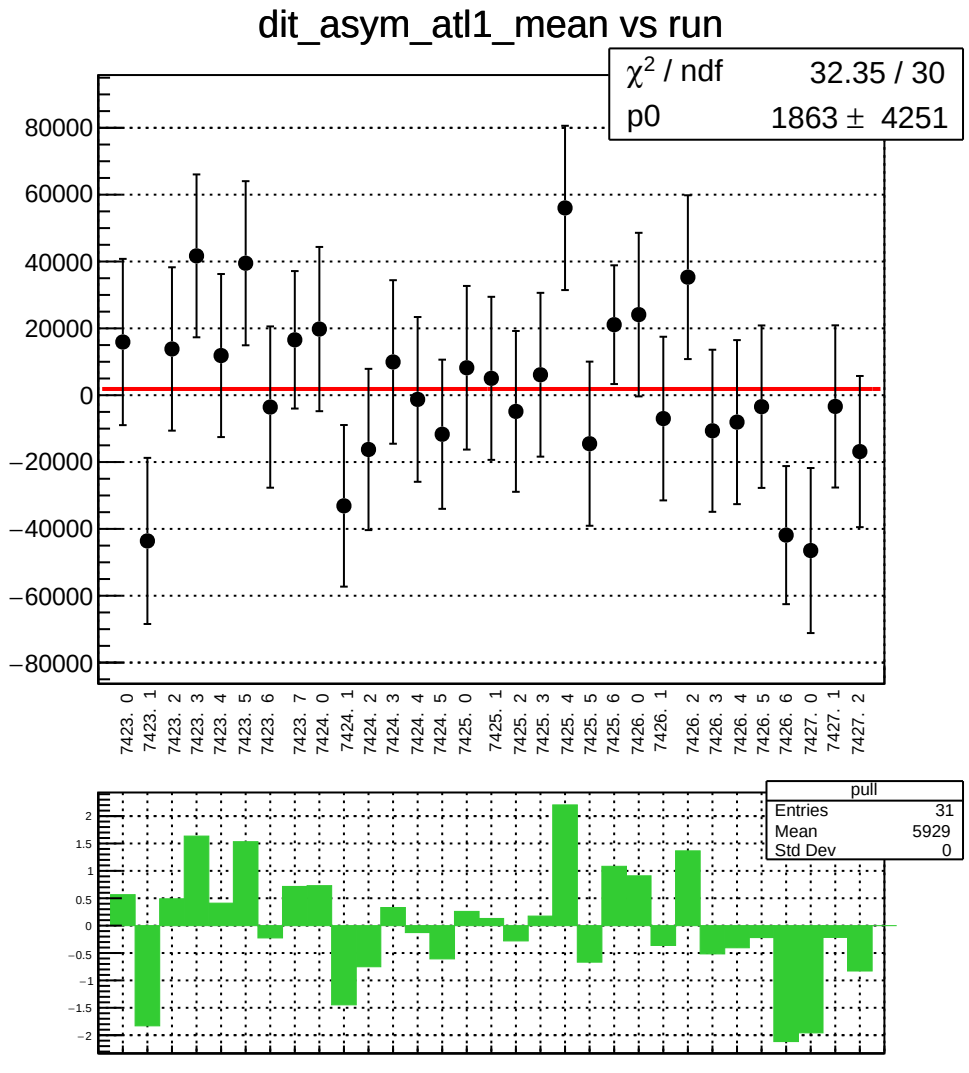

pull1D
Entries 31
Mean −0.000803
Std Dev 1.022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

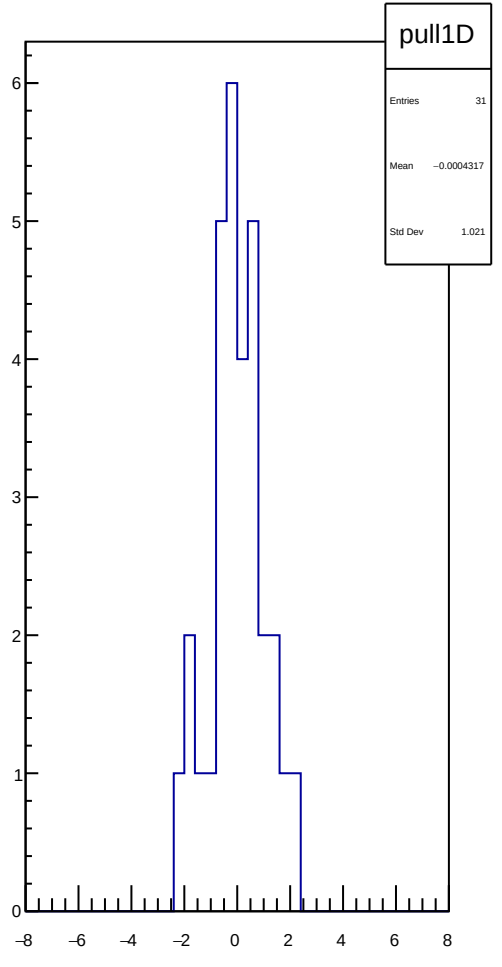

eigen_cor_asym_atl1_rms vs run
χ² / ndf 34.08 / 30
p0 2318 ± 3.004
2380
2360
2340
2320
2300
2280
2260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

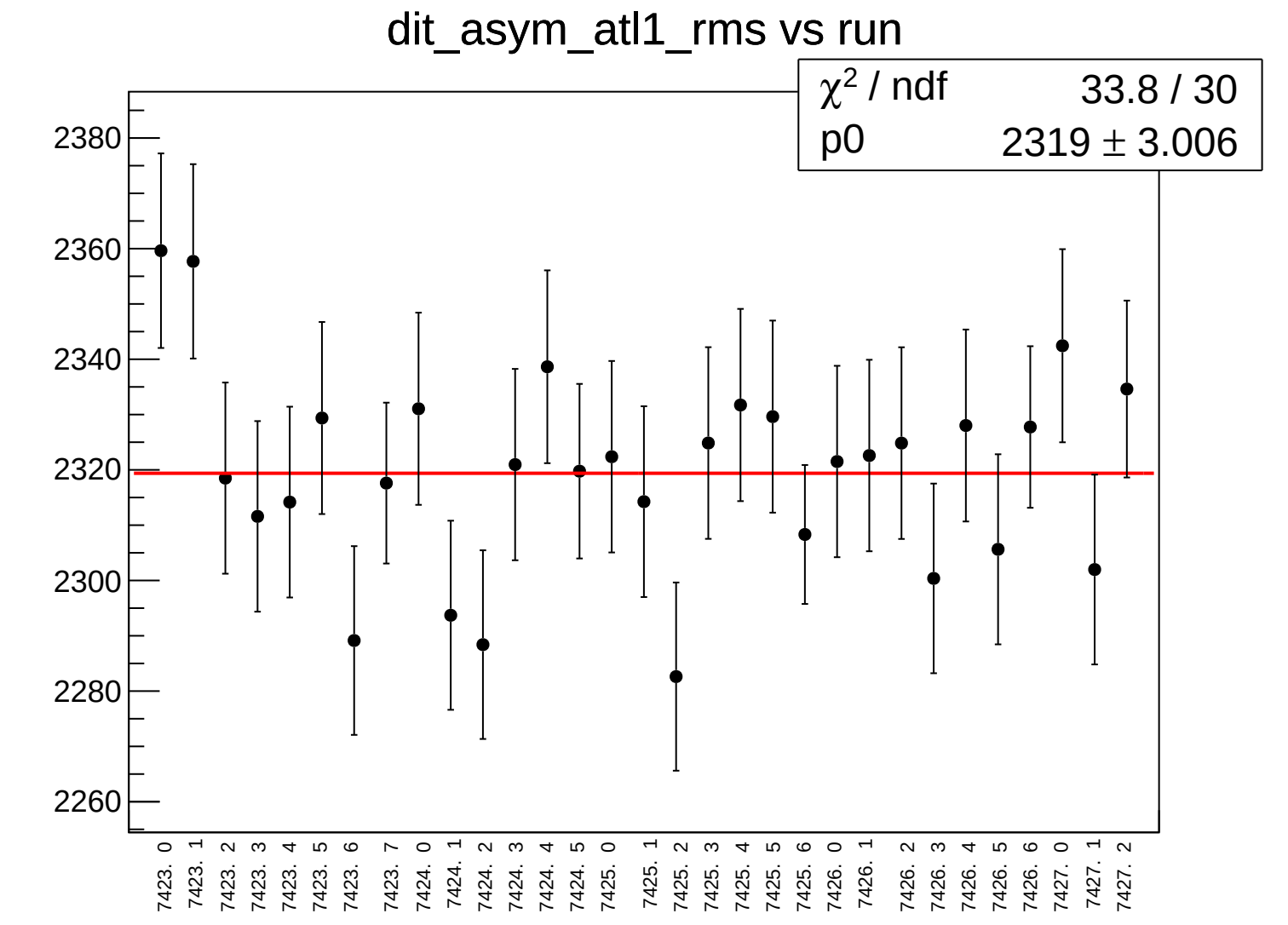

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 26.7 / 30
p0 −856.5 ± 543.2
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −12.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

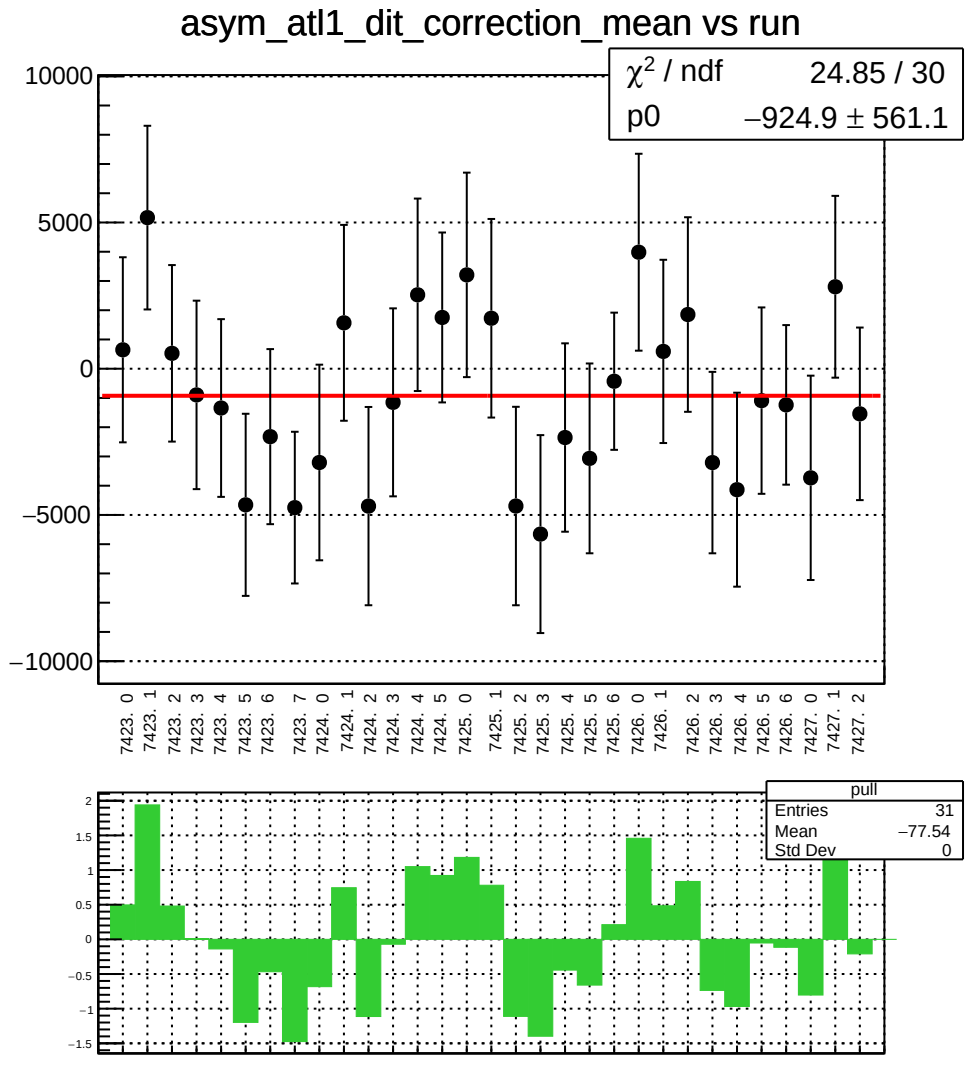

pull1D
Entries 31
Mean −0.008351
Std Dev 0.9279
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

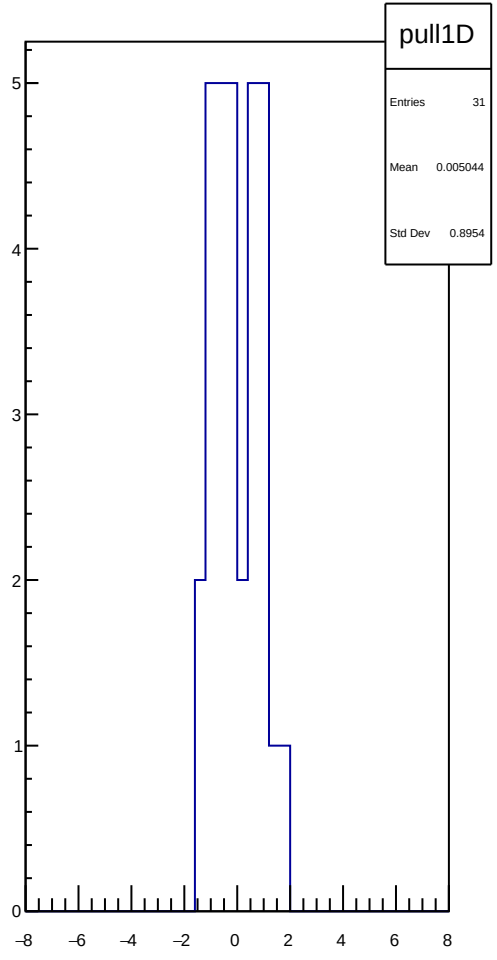

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 4187 / 30
p0 295.4 ± 0.3841
440
420
400
380
360
340
320
300
280
260
240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

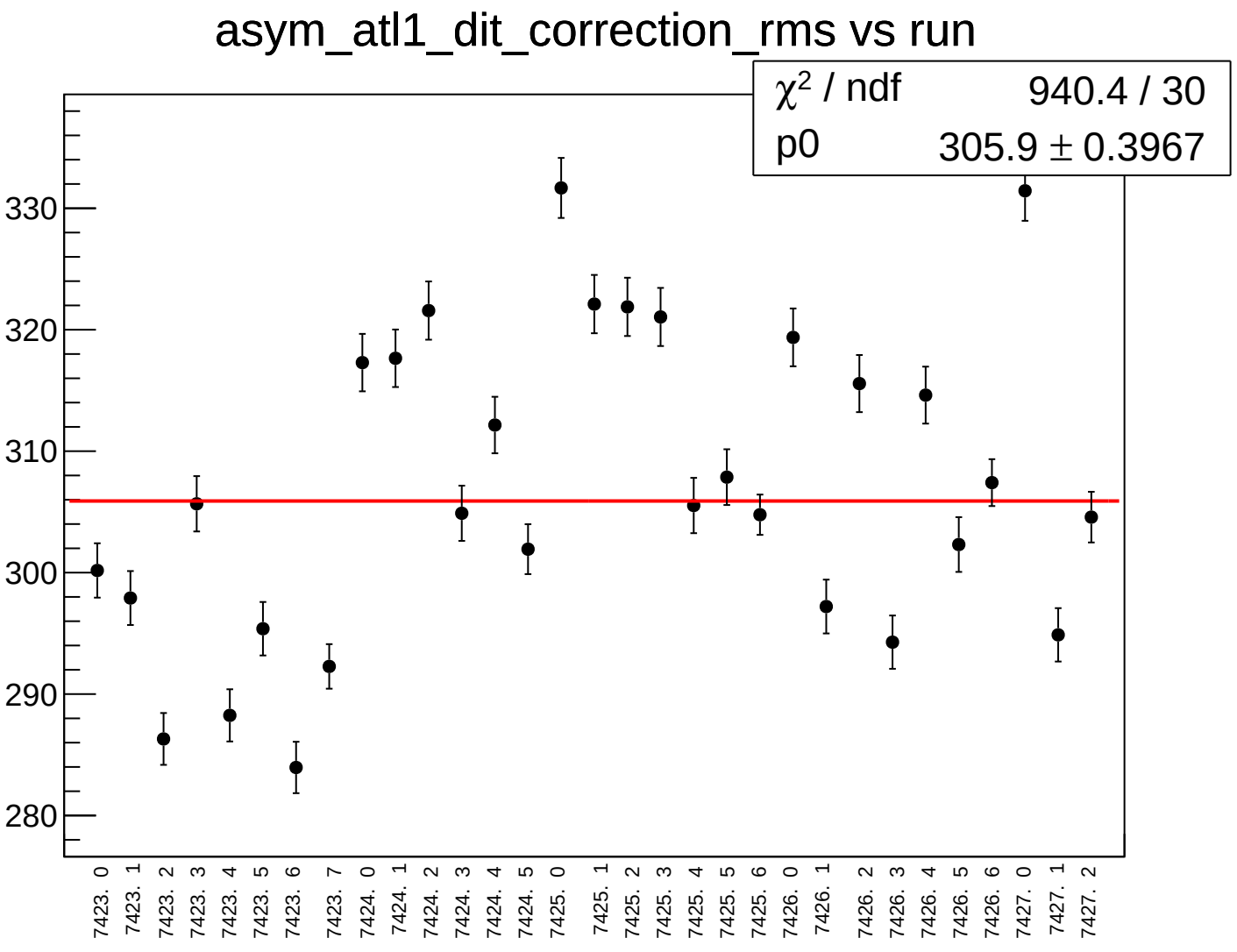

dit_asym_atl1_mean vs run
χ² / ndf 32.35 / 30
p0 1863 ± 4251
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 5929
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

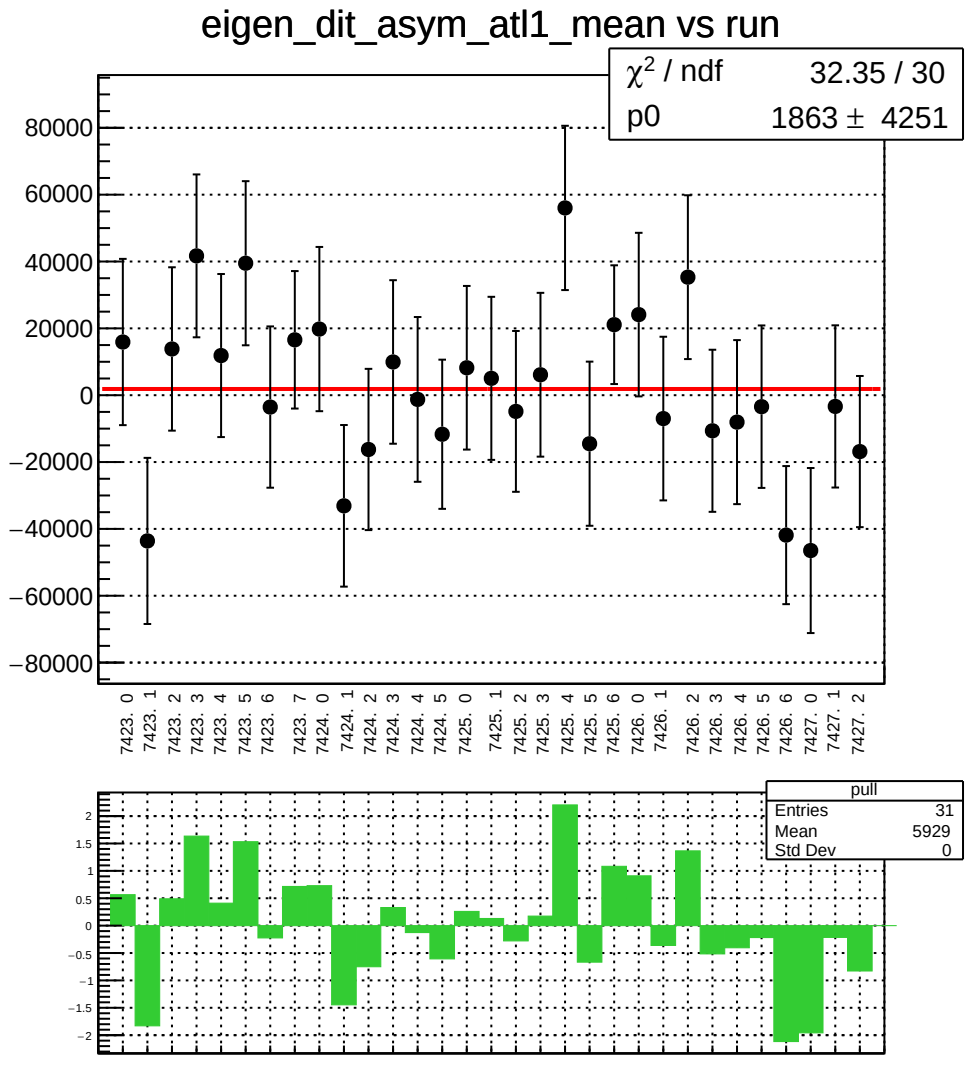

pull1D
Entries 31
Mean −0.0004317
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

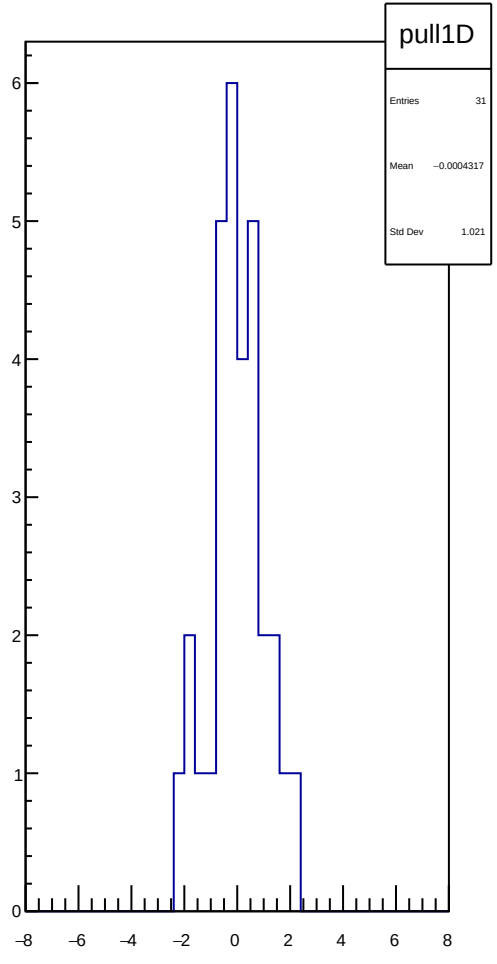

dit_asym_atl1_rms vs run
χ² / ndf 33.8 / 30
p0 2319 ± 3.006
2380
2360
2340
2320
2300
2280
2260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

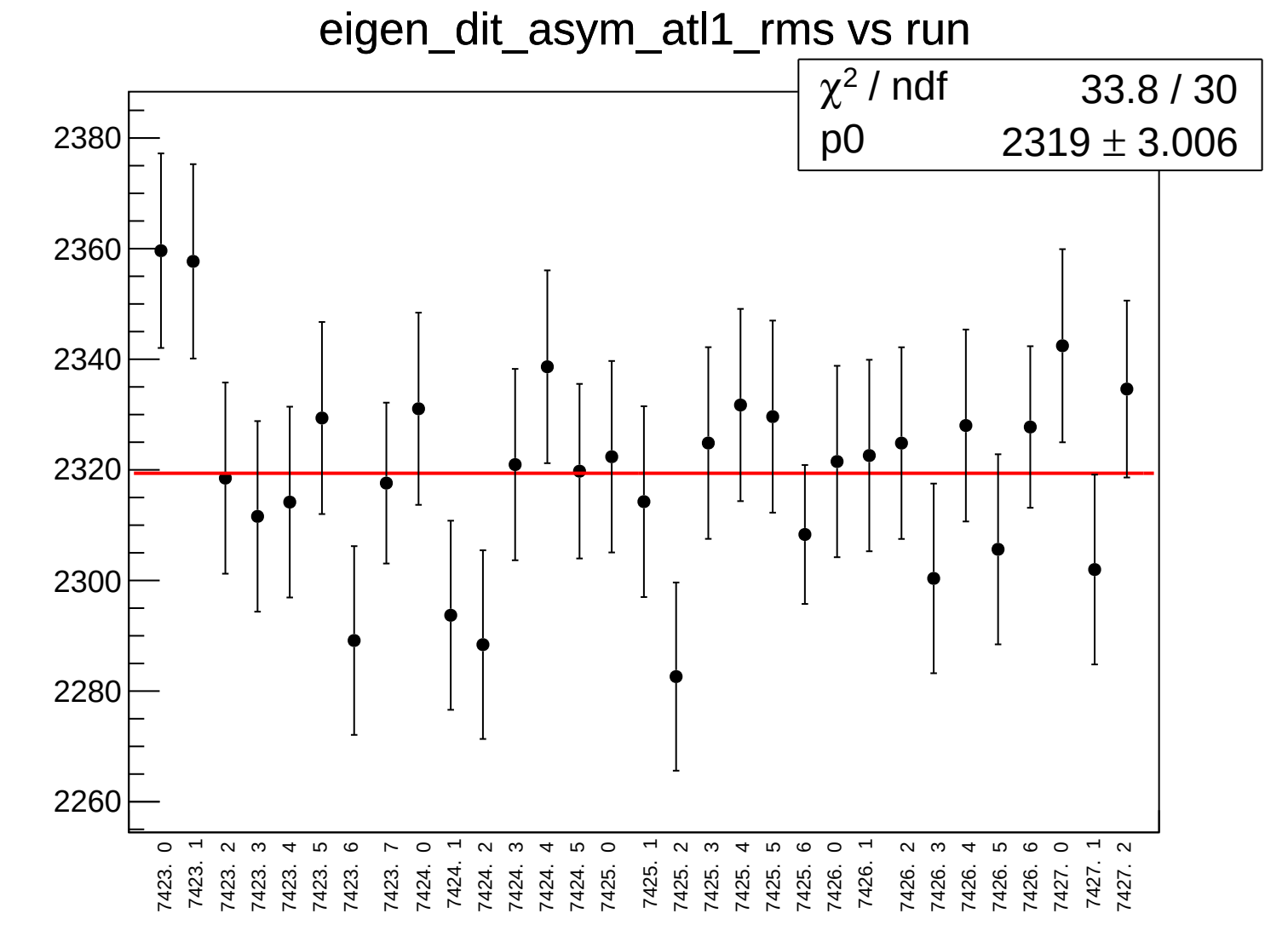

asym_atl1_dit_correction_mean vs run
χ² / ndf 24.85 / 30
p0 −924.9 ± 561.1
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −77.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

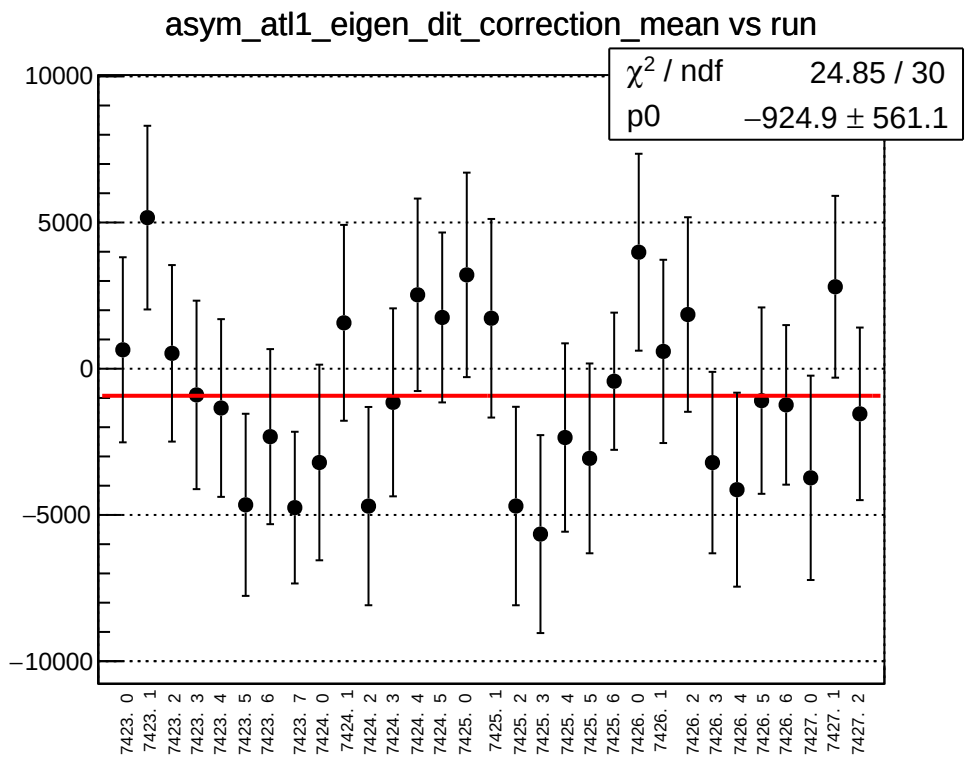

pull1D
Entries 31
Mean 0.005044
Std Dev 0.8954
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

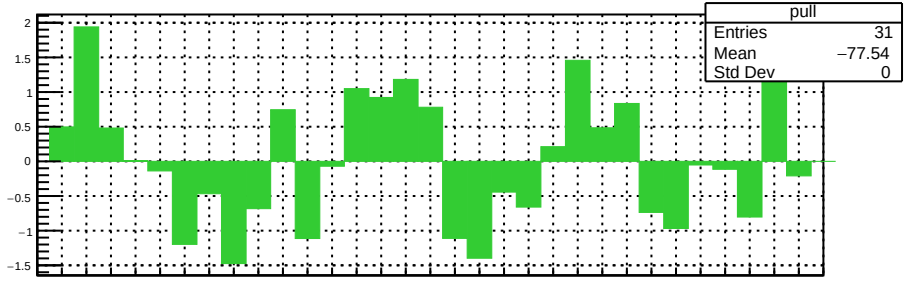

asym_atl1_dit_correction_rms vs run
χ² / ndf 940.4 / 30
p0 305.9 ± 0.3967
330
320
310
300
290
280
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

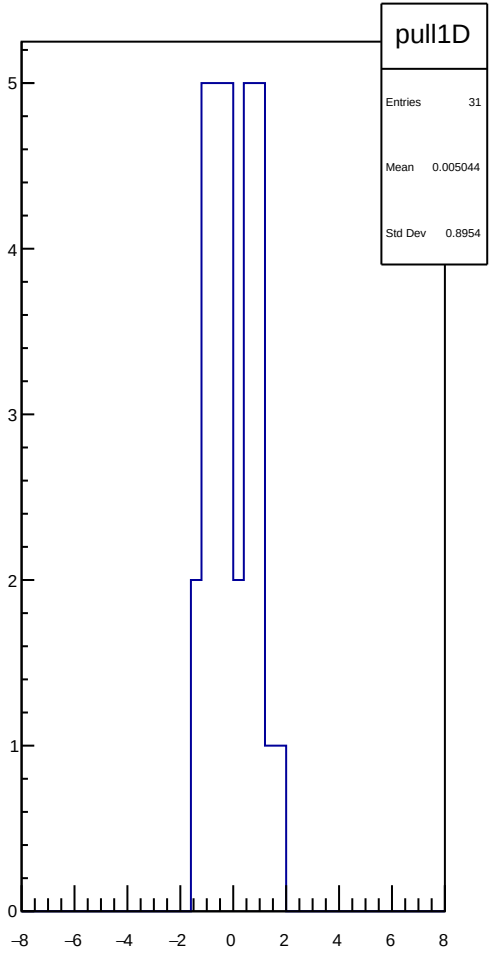

eigen_dit_asym_atl1_mean vs run
χ² / ndf 32.35 / 30
p0 1863 ± 4251
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 5929
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

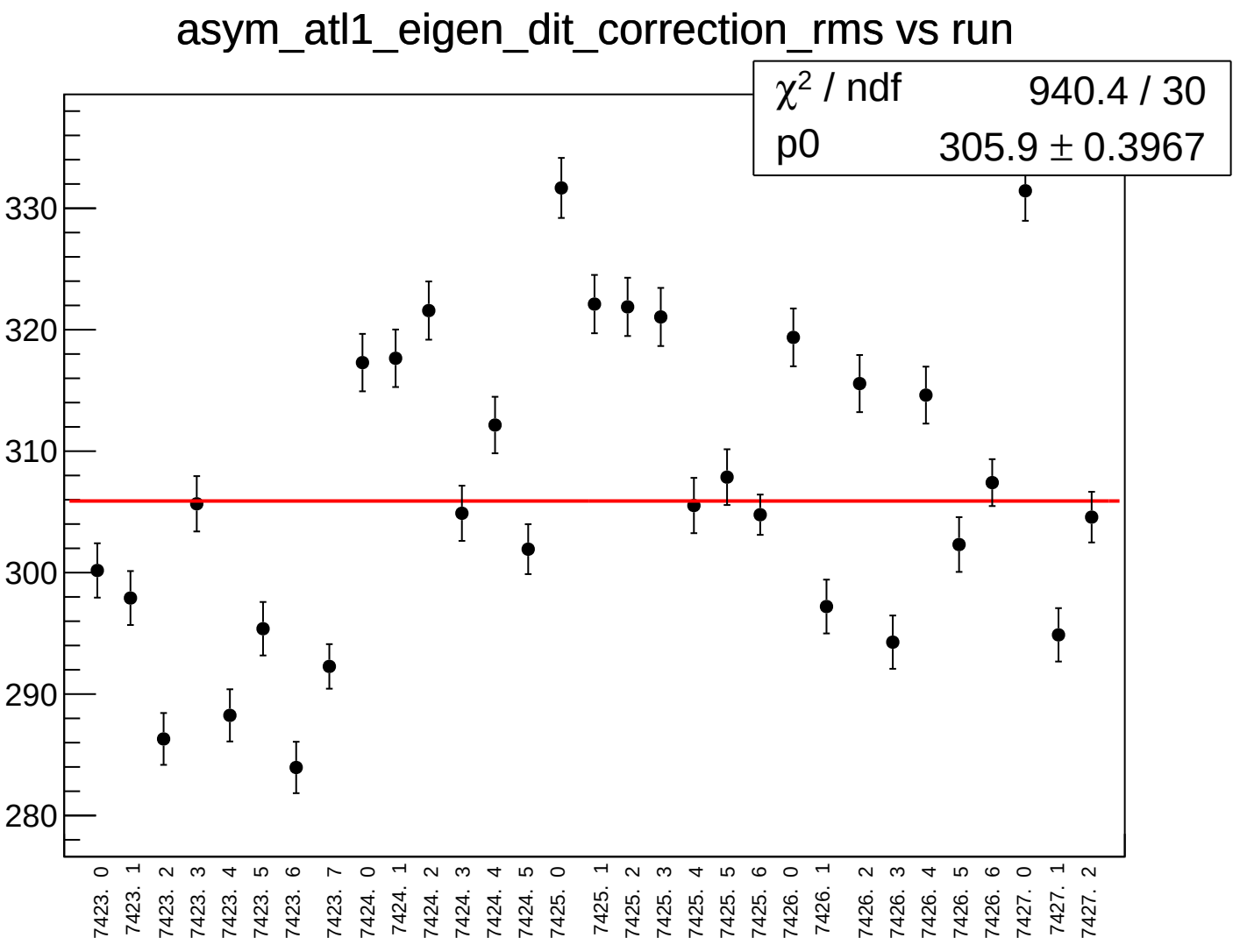

pull1D
Entries 31
Mean −0.0004317
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

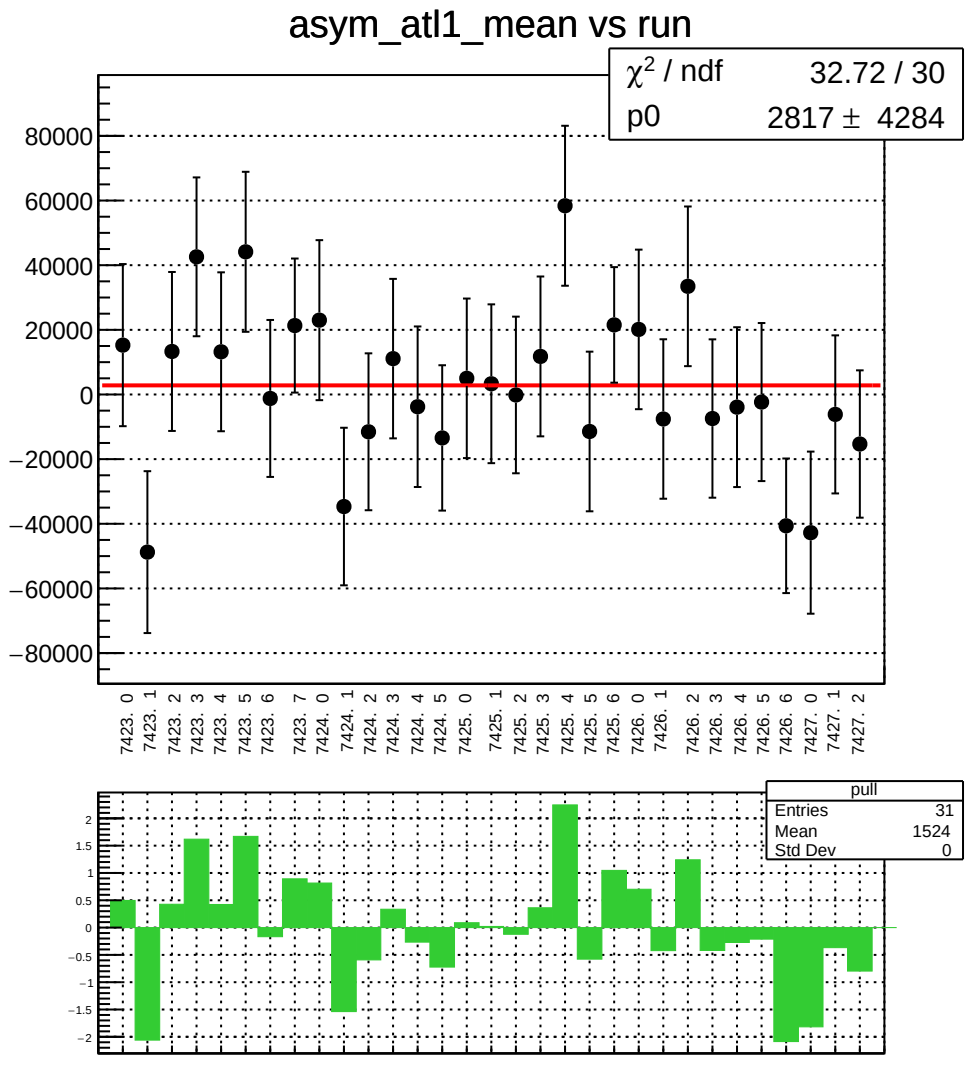

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 33.8 / 30
p0 2319 ± 3.006
2380
2360
2340
2320
2300
2280
2260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

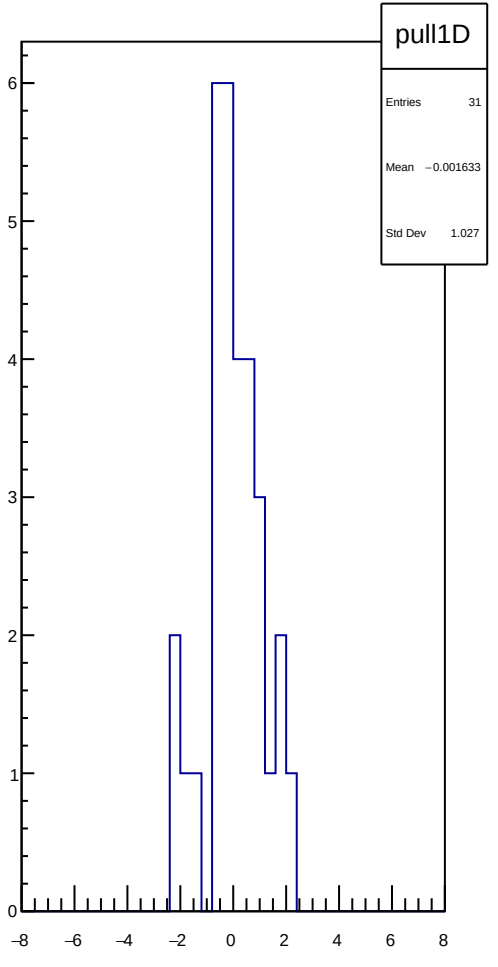

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 24.85 / 30
p0 −924.9 ± 561.1
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

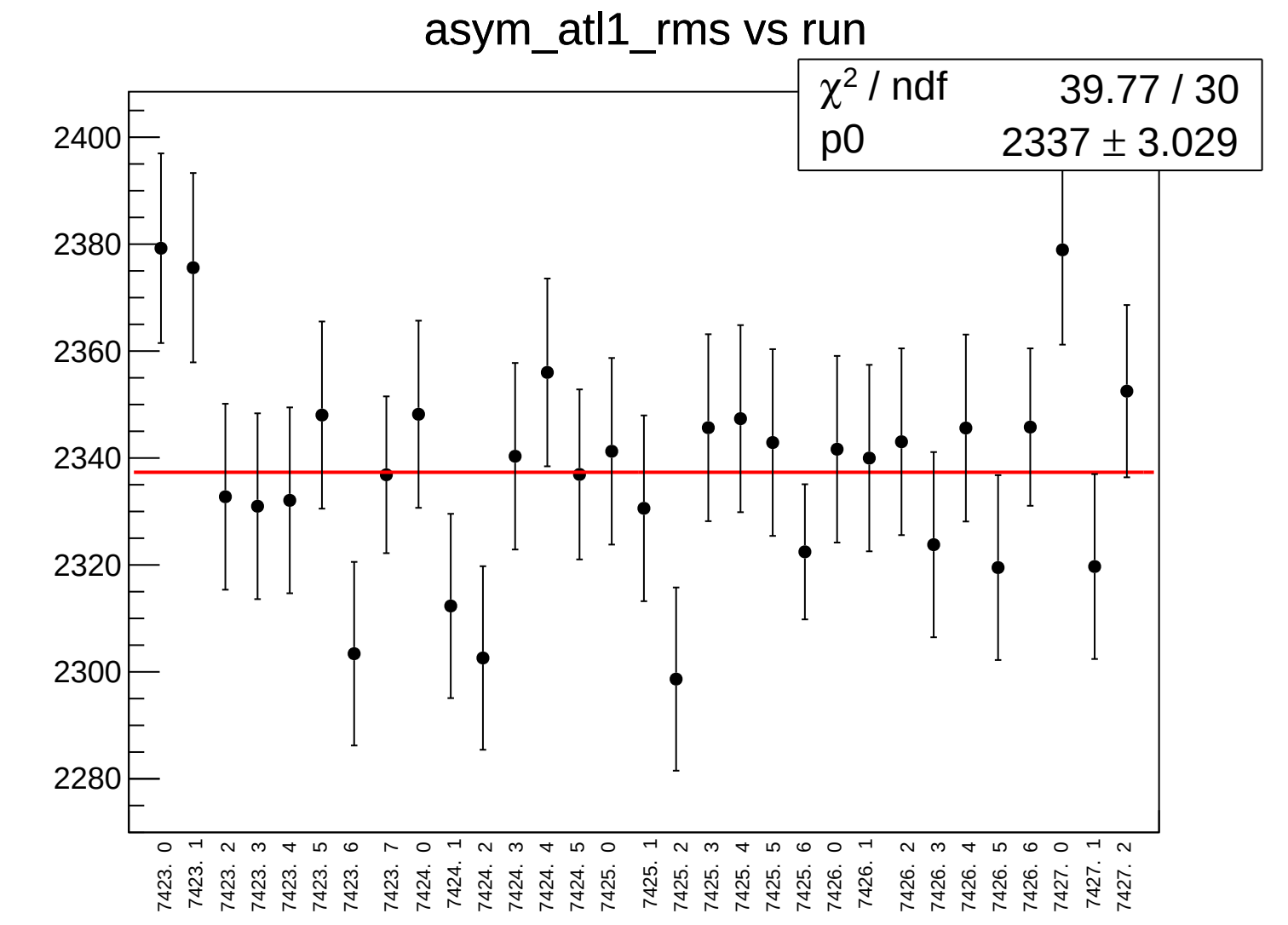

pull
Entries 31
Mean −77.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

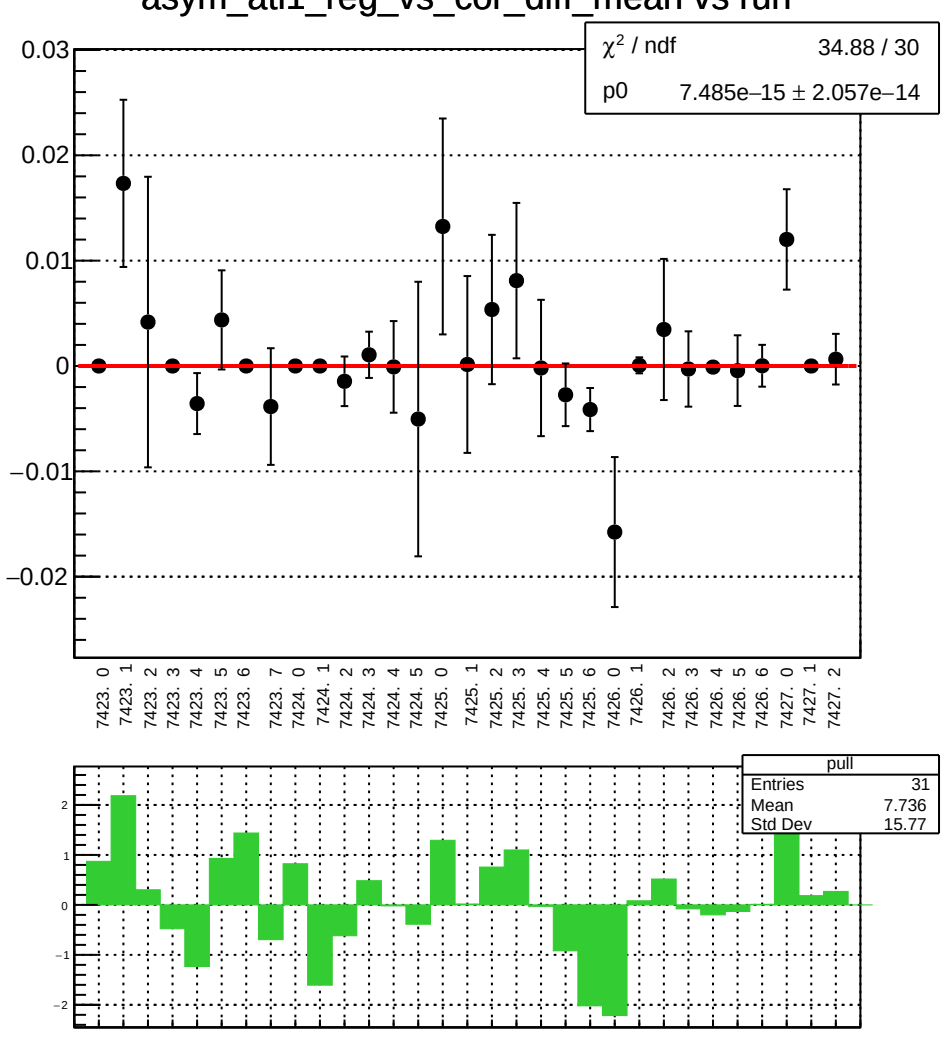

pull1D
Entries 31
Mean 0.005044
Std Dev 0.8954
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

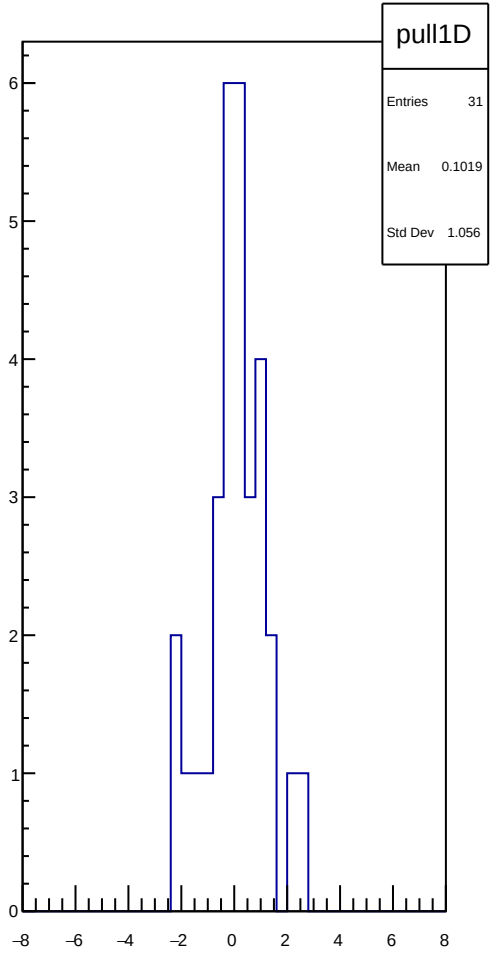

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 940.4 / 30
p0 305.9 ± 0.3967
330
320
310
300
290
280
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

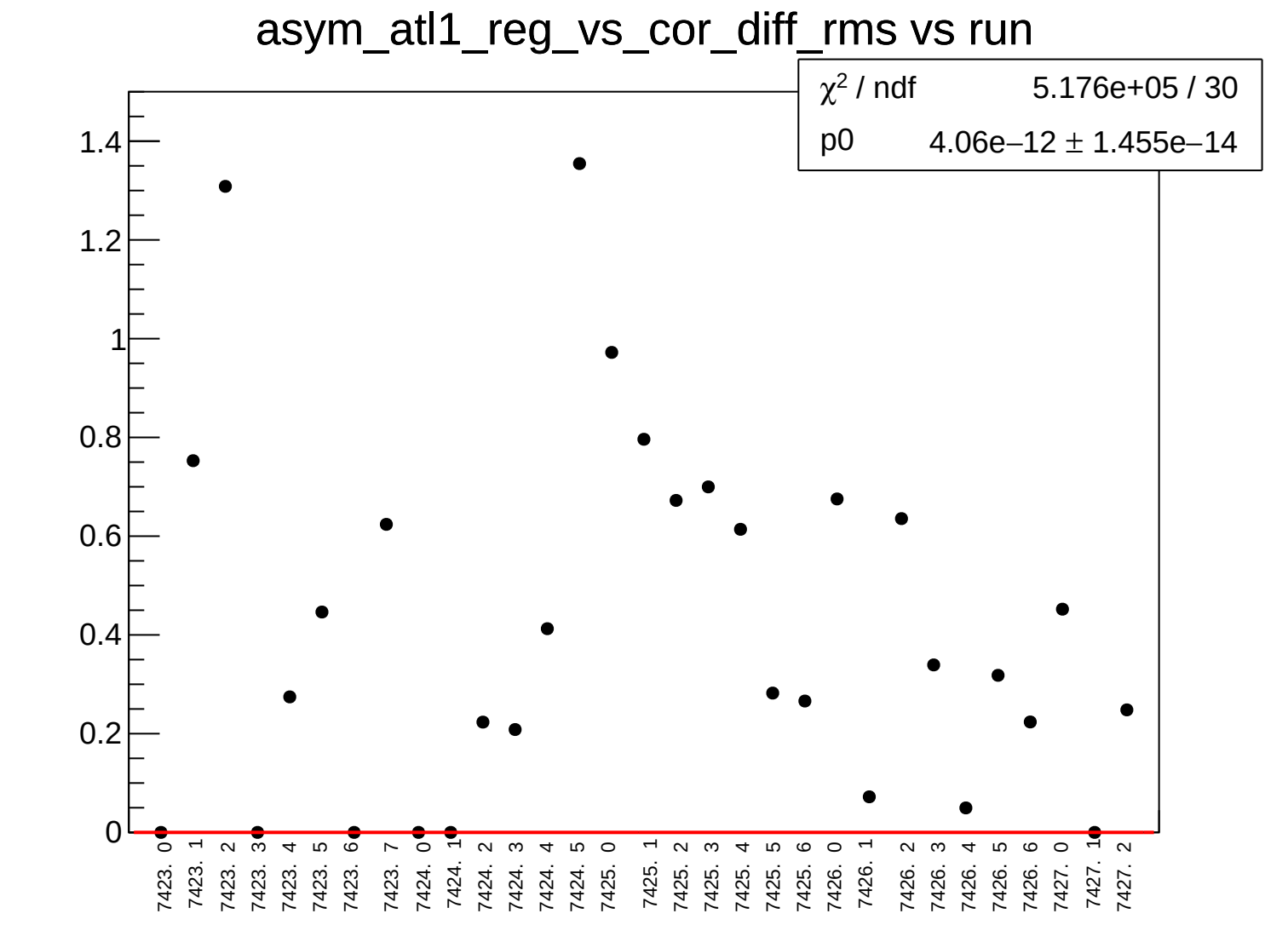

asym_atl1_mean vs run
χ² / ndf 32.72 / 30
p0 2817 ± 4284
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1524
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

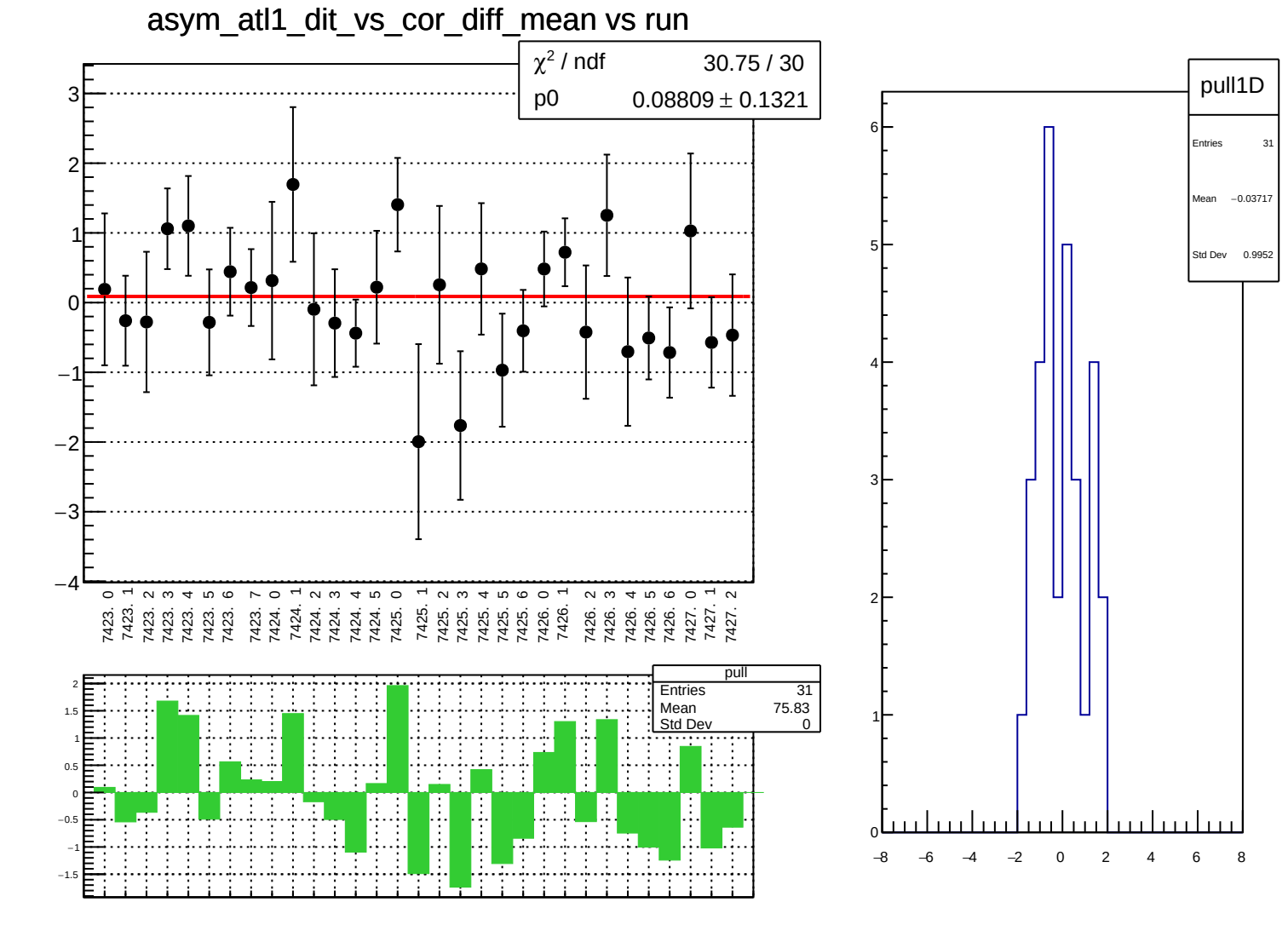

pull1D
Entries 31
Mean −0.001633
Std Dev 1.027
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

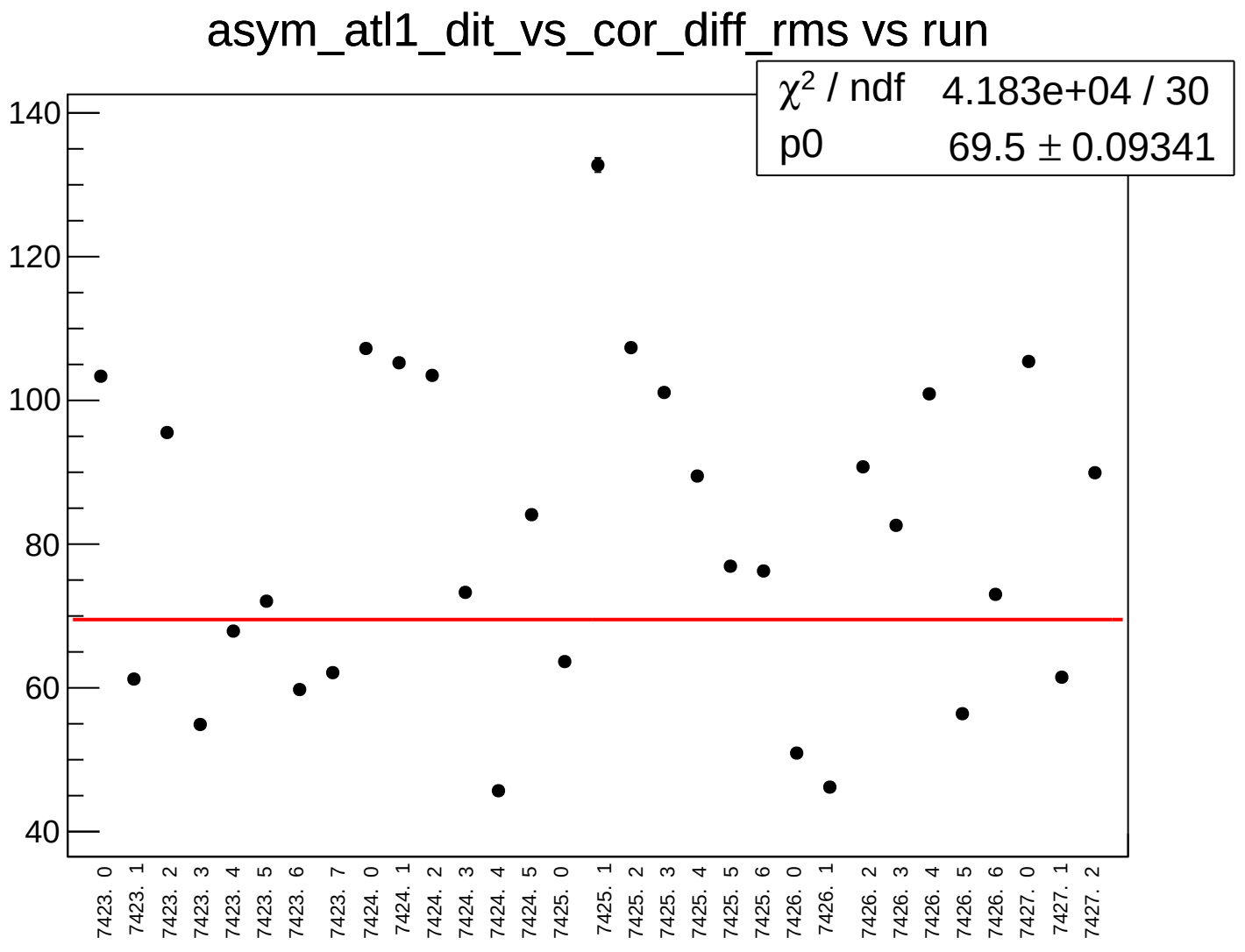

asym_atl1_rms vs run
χ² / ndf 39.77 / 30
p0 2337 ± 3.029
2400
2380
2360
2340
2320
2300
2280
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

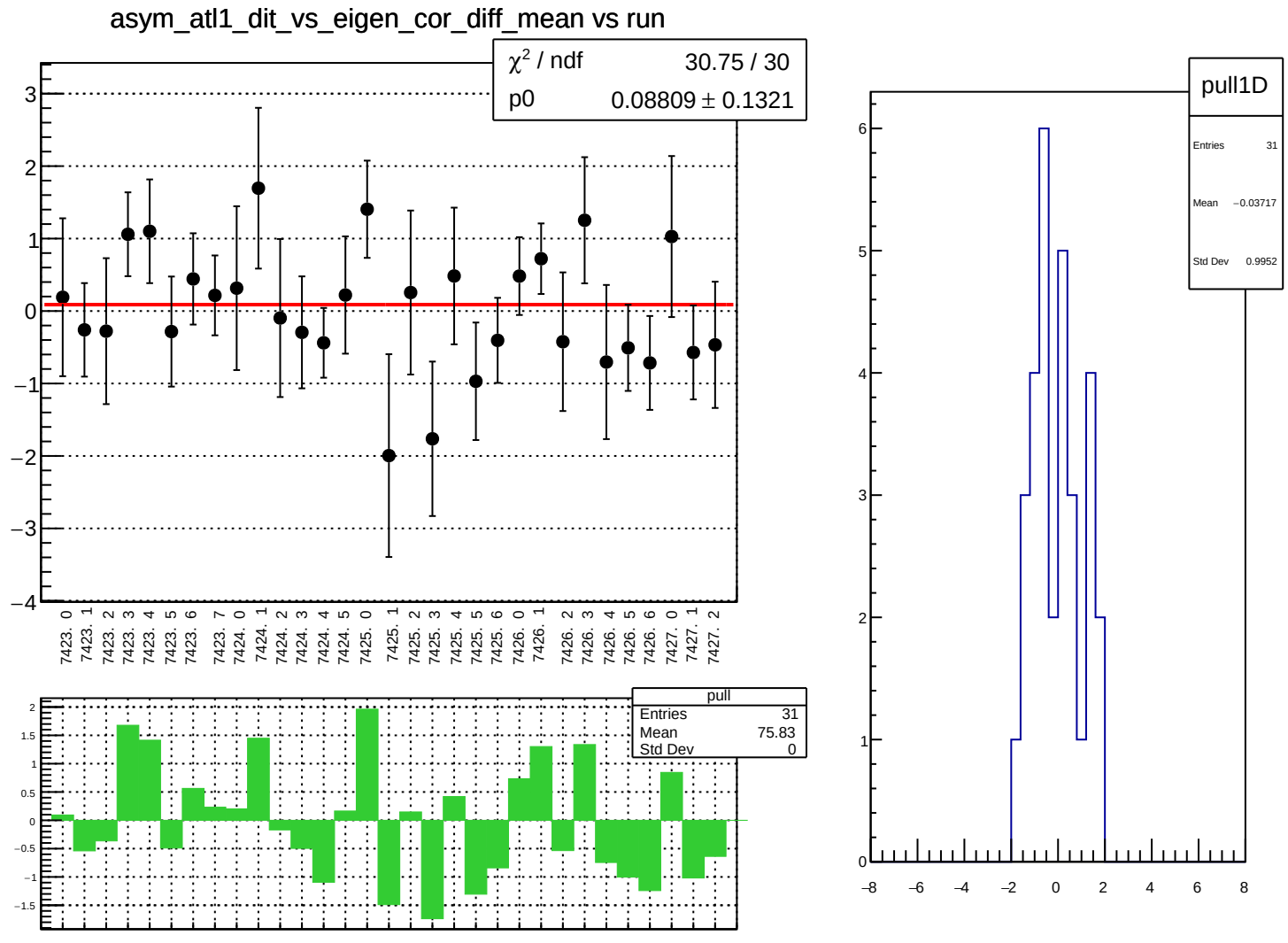

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 34.88 / 30
p0 7.485e−15 ± 2.057e−14
0.03
0.02
0.01
0
−0.01
−0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 7.736
Std Dev 15.77
2
1
0
−1
−2

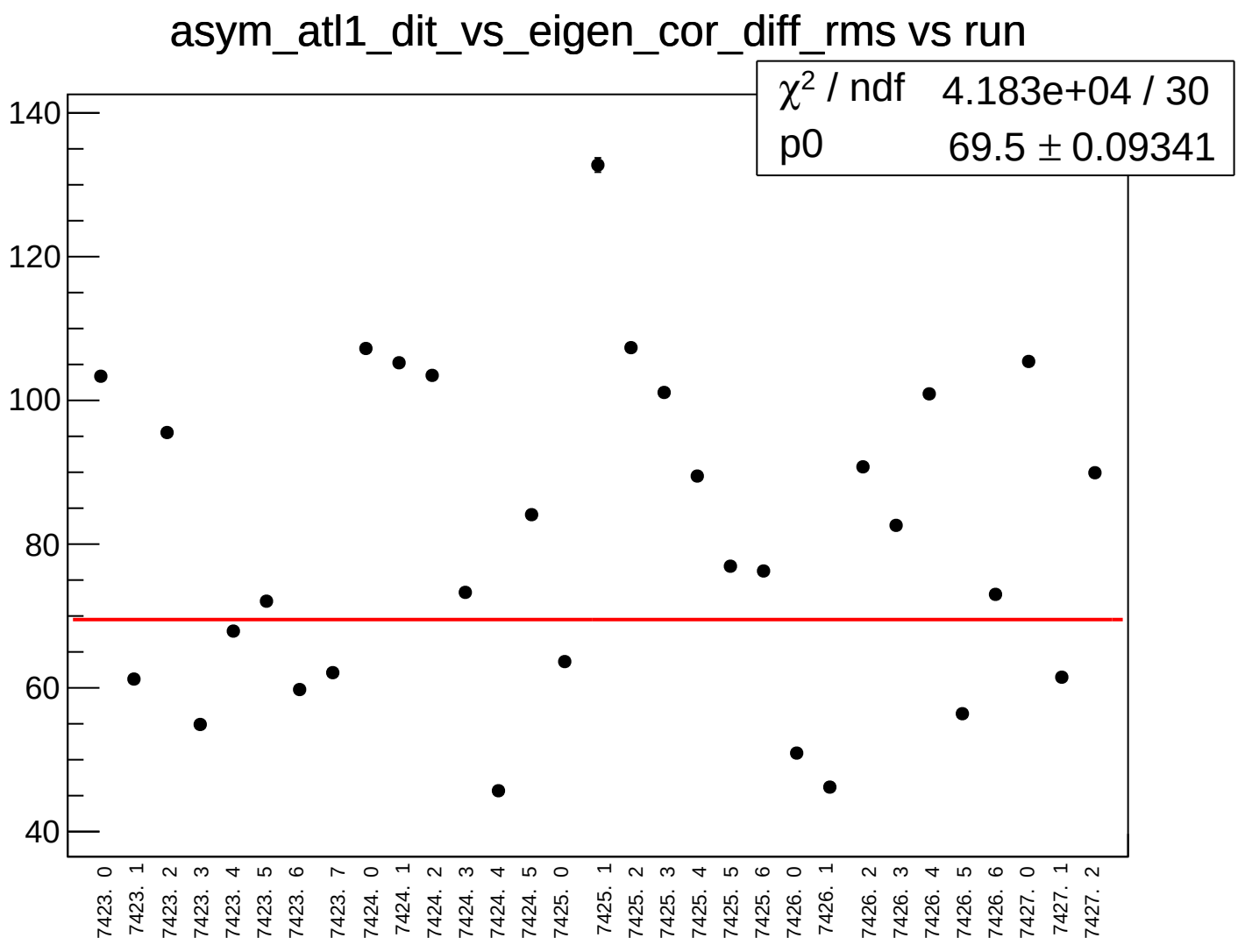

pull1D
Entries 31
Mean 0.1019
Std Dev 1.056
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

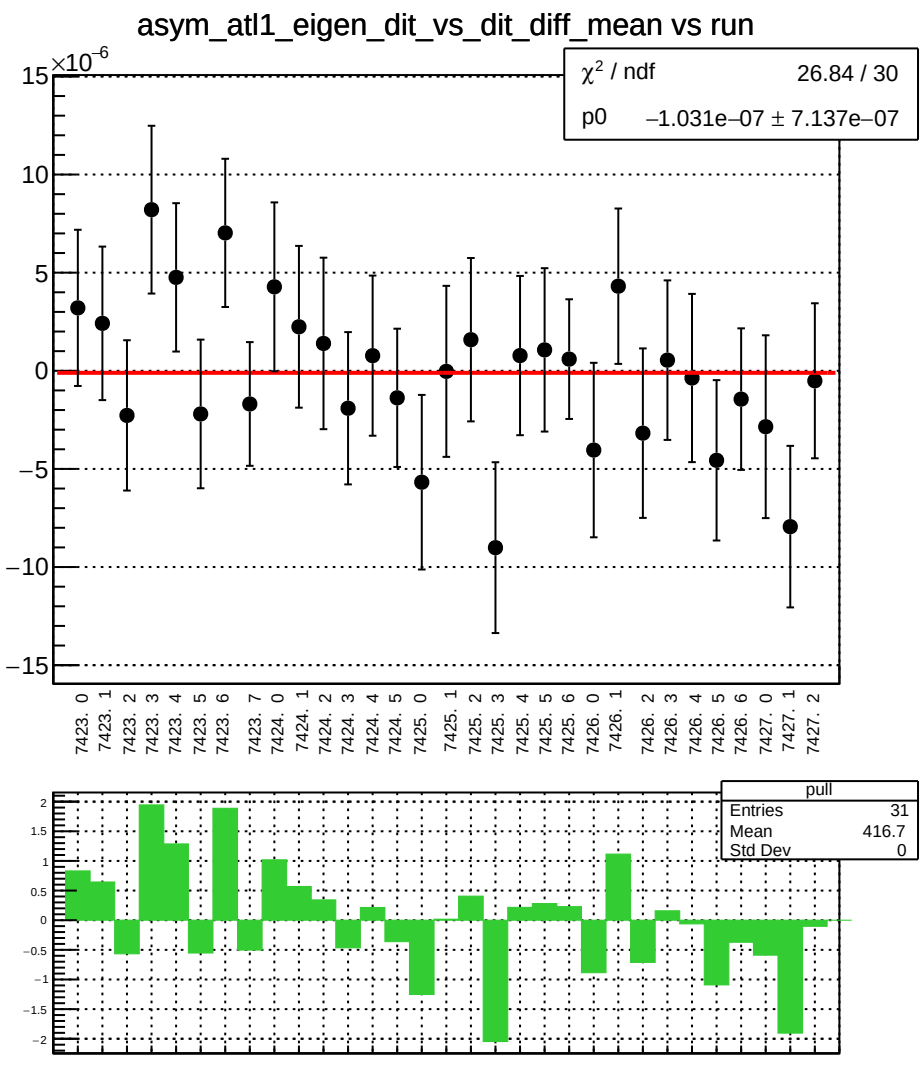

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.176e+05 / 30
p0 4.06e−12 ± 1.455e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

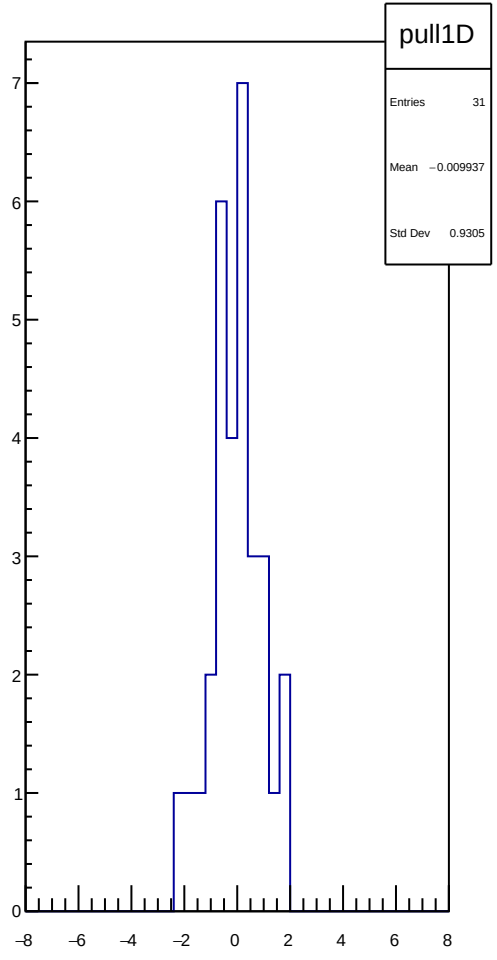

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 30.75 / 30
p0 0.08809 ± 0.1321
pull
Entries 31
Mean 75.83
Std Dev 0
pull1D
Entries 31
Mean −0.03717
Std Dev 0.9952

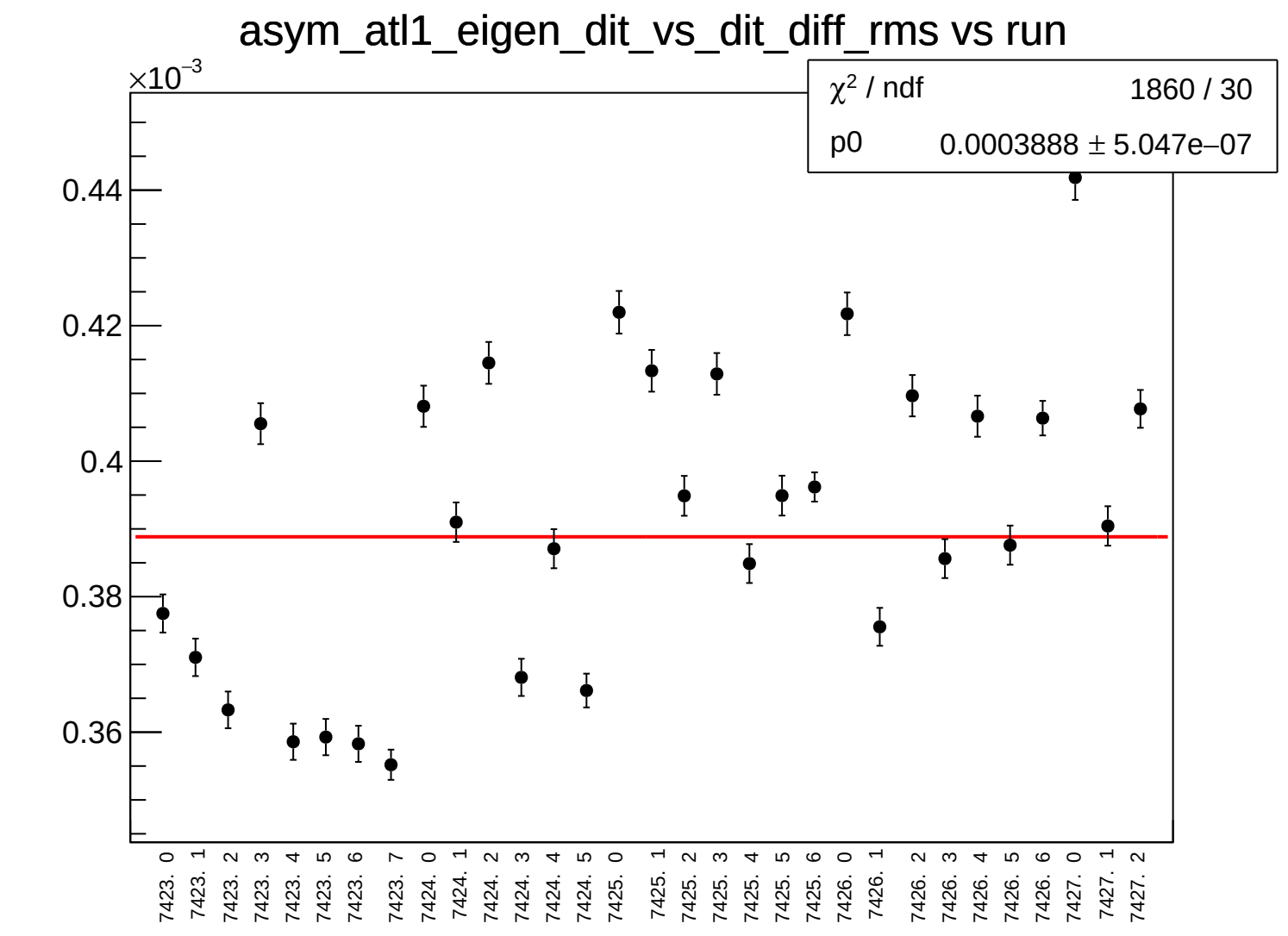

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 4.183e+04 / 30
p0 69.5 ± 0.09341
140
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

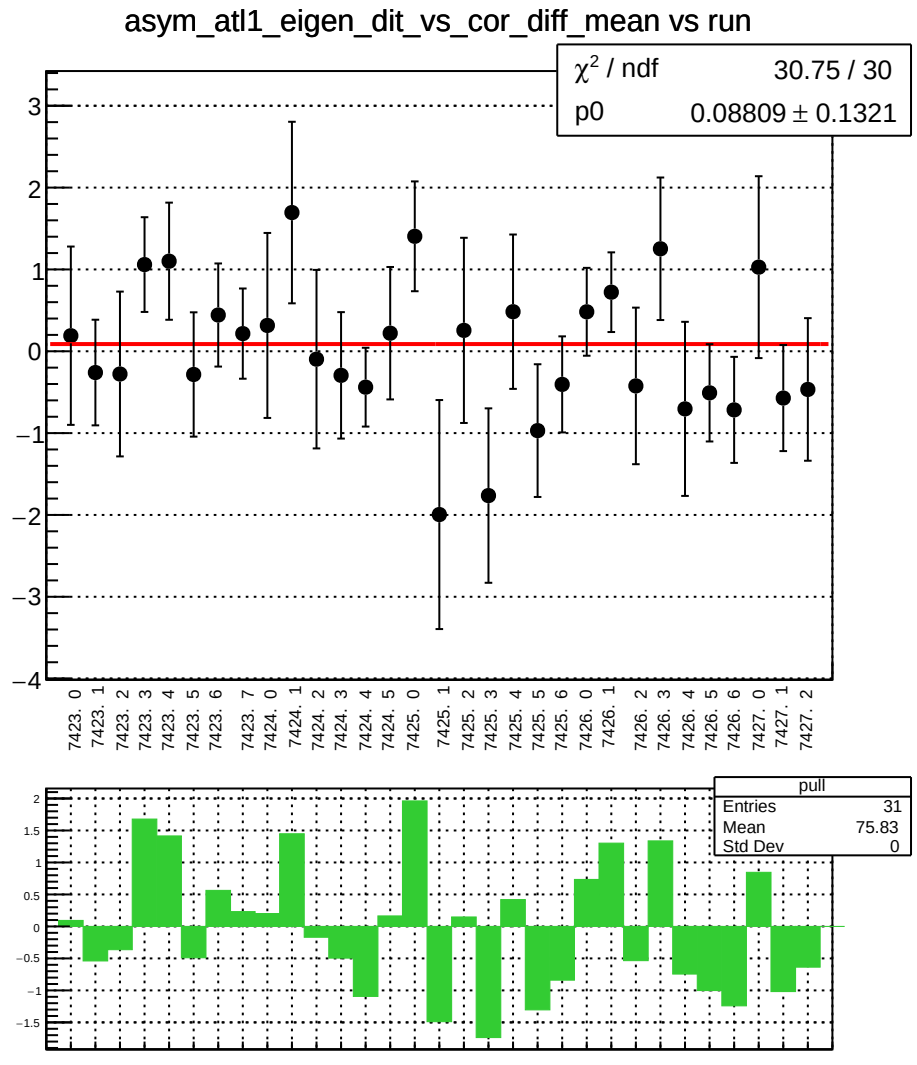

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.75 / 30
p0 0.08809 ± 0.1321
pull
Entries 31
Mean 75.83
Std Dev 0
pull1D
Entries 31
Mean −0.03717
Std Dev 0.9952

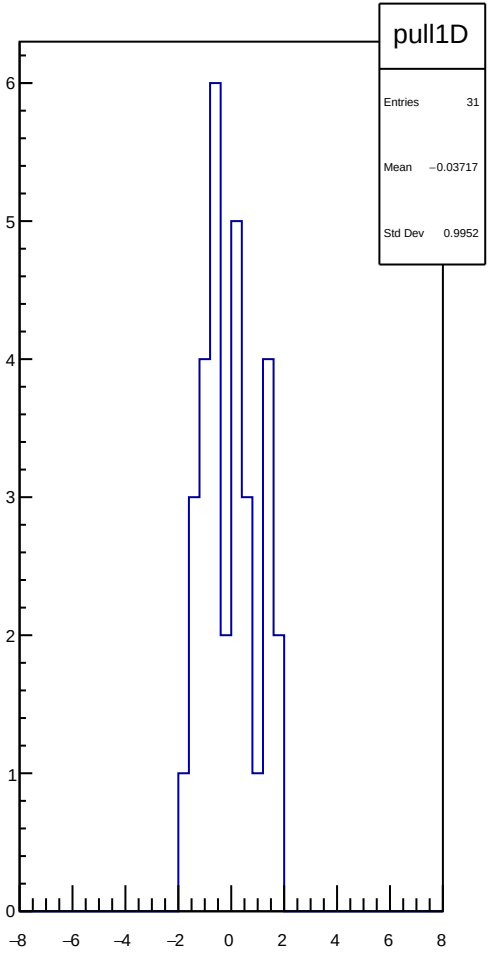

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.183e+04 / 30
p0 69.5 ± 0.09341
140
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

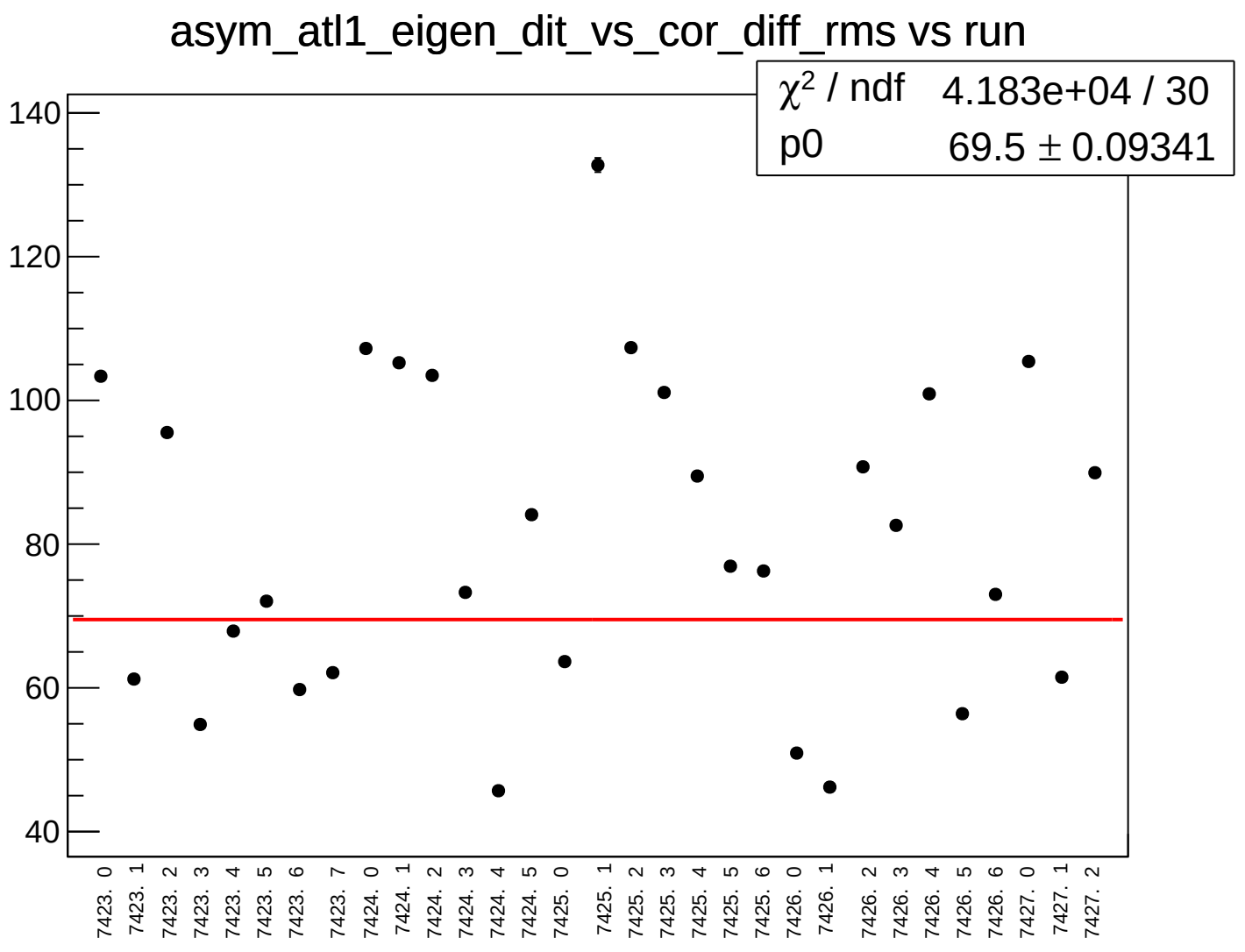

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 26.84 / 30
p0 −1.031e−07 ± 7.137e−07
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 416.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

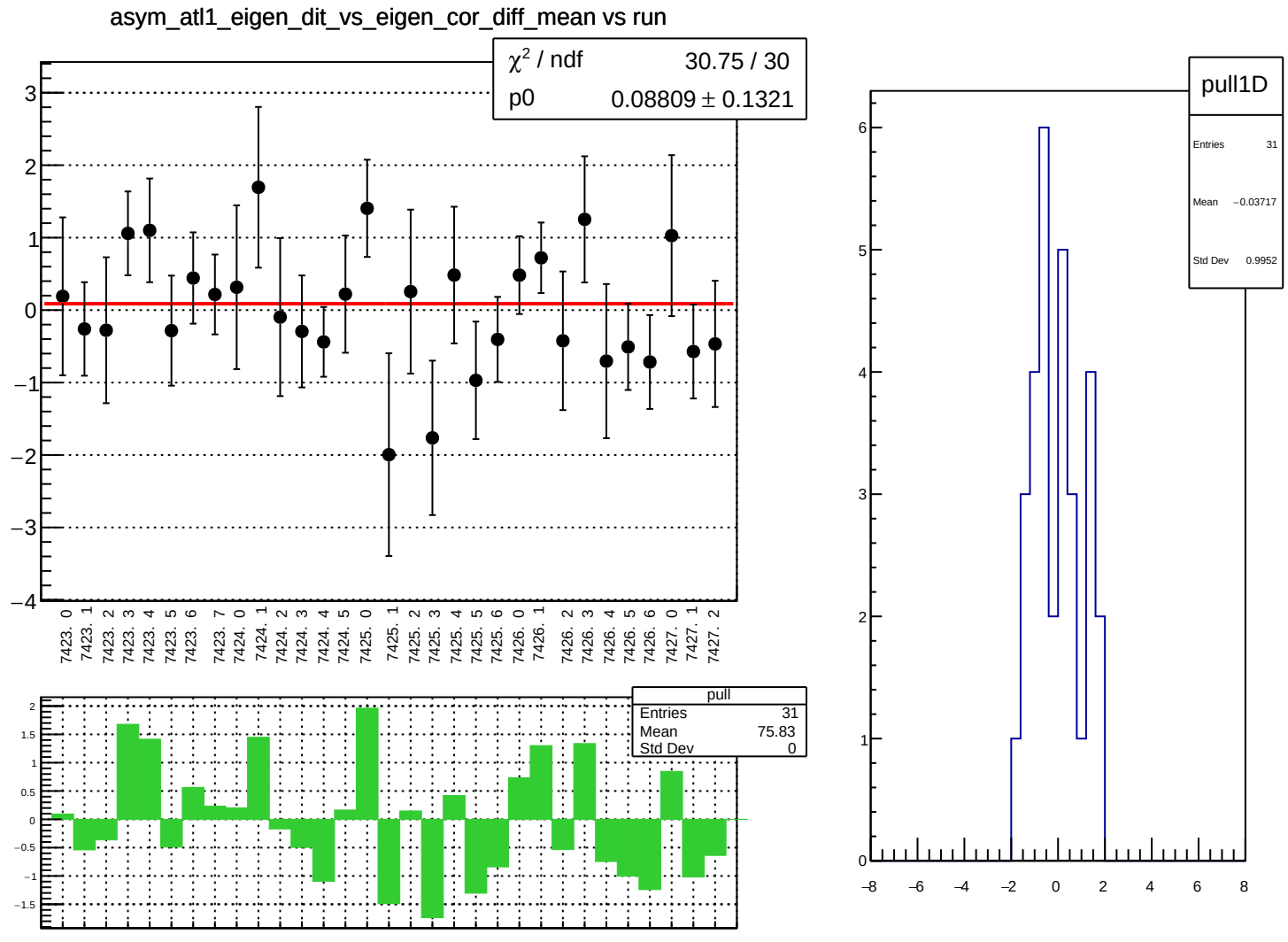

pull1D
Entries 31
Mean −0.009937
Std Dev 0.9305
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

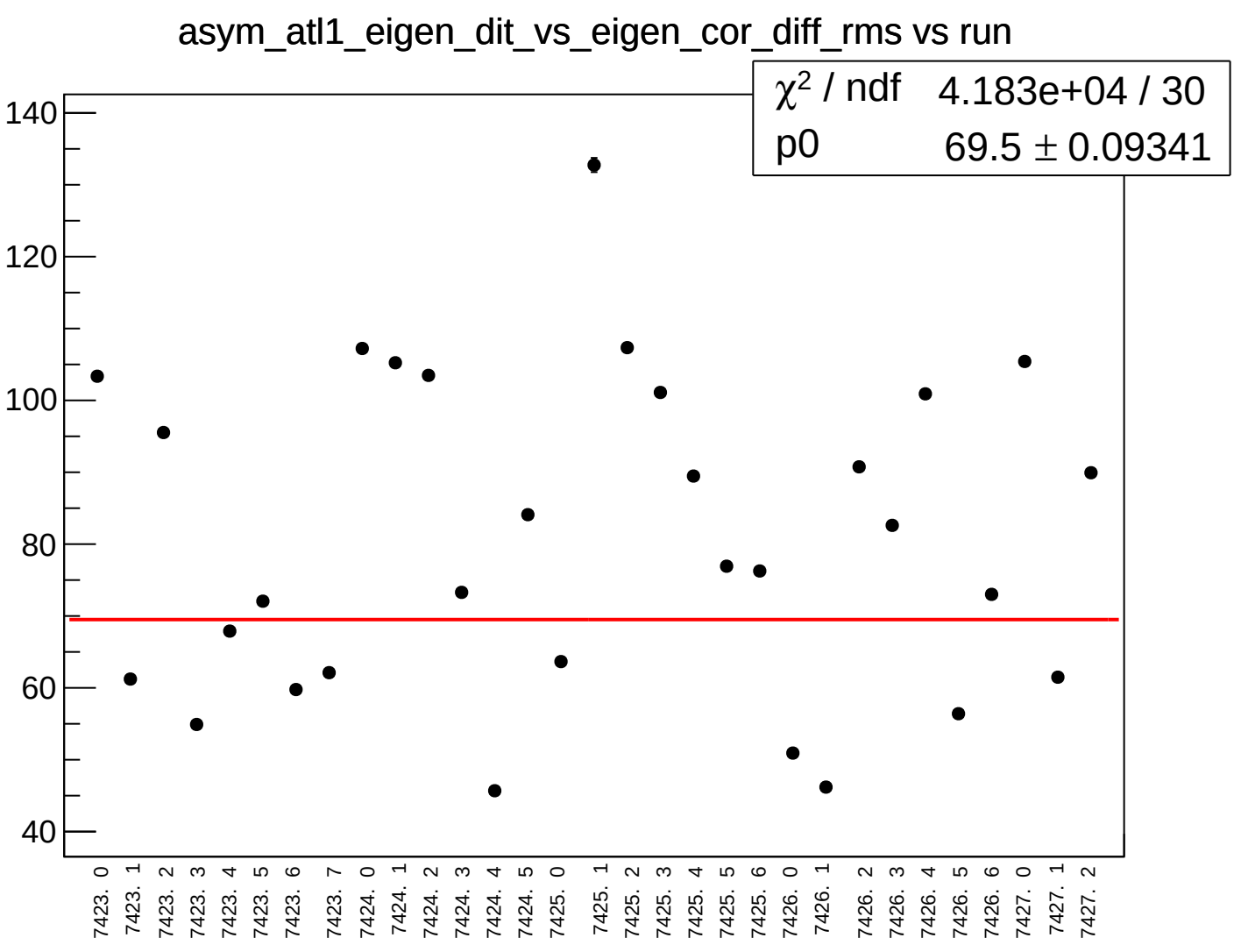

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1860 / 30
p0 0.0003888 ± 5.047e−07
0.44
0.42
0.4
0.38
0.36
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

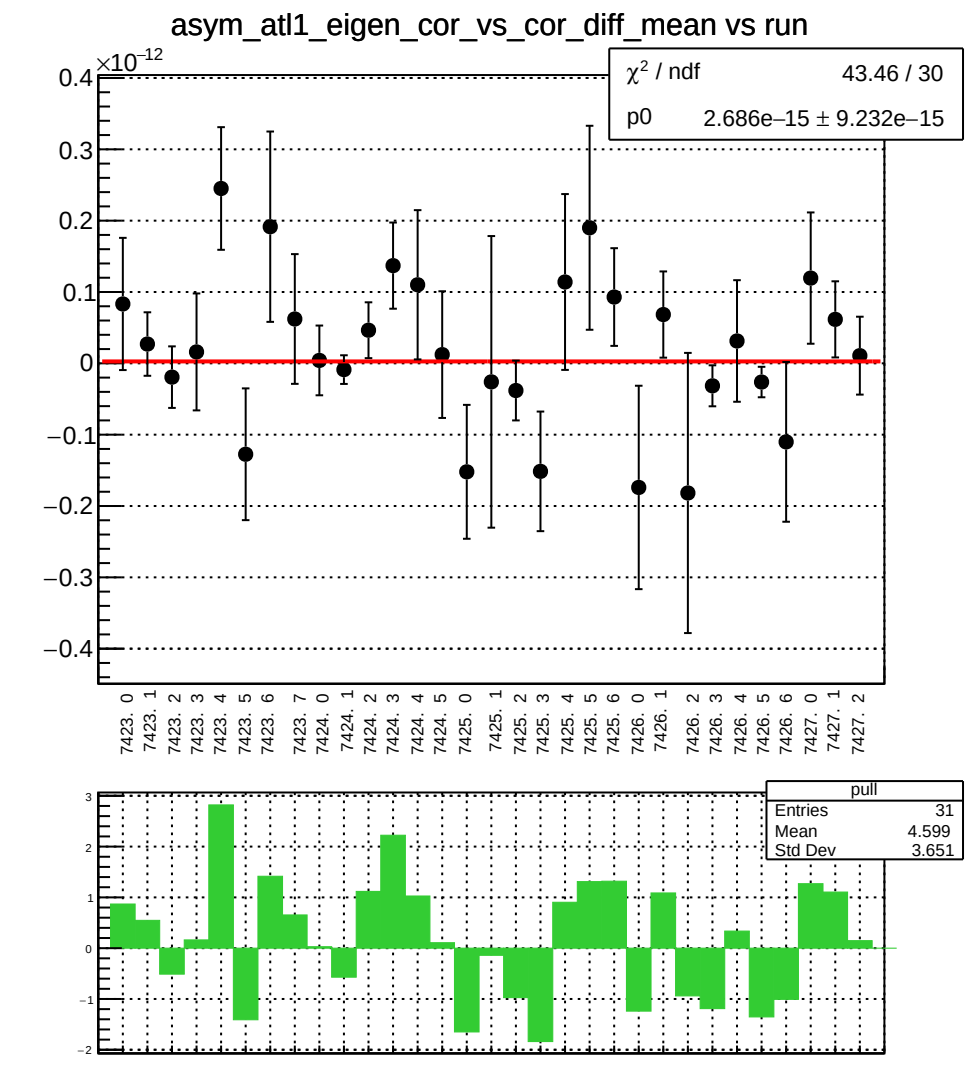

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.75 / 30
p0 0.08809 ± 0.1321
pull
Entries 31
Mean 75.83
Std Dev 0

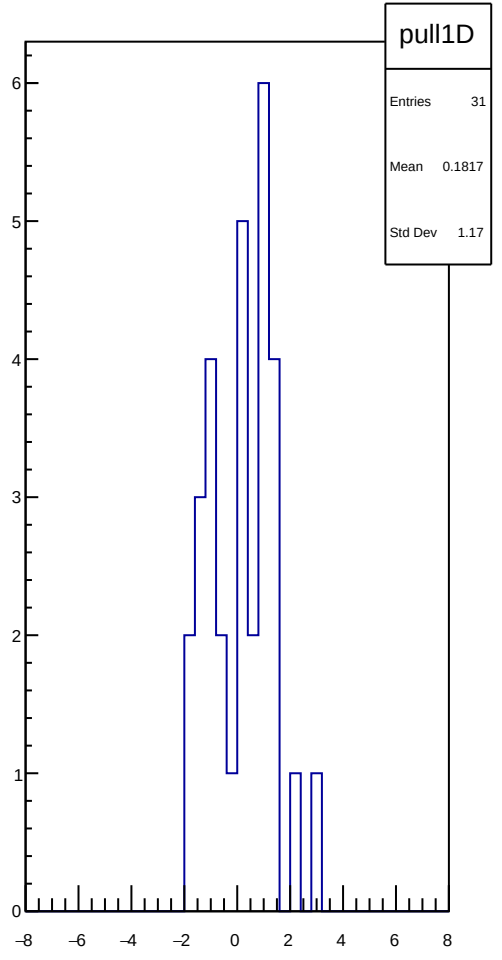

pull1D
Entries 31
Mean −0.03717
Std Dev 0.9952

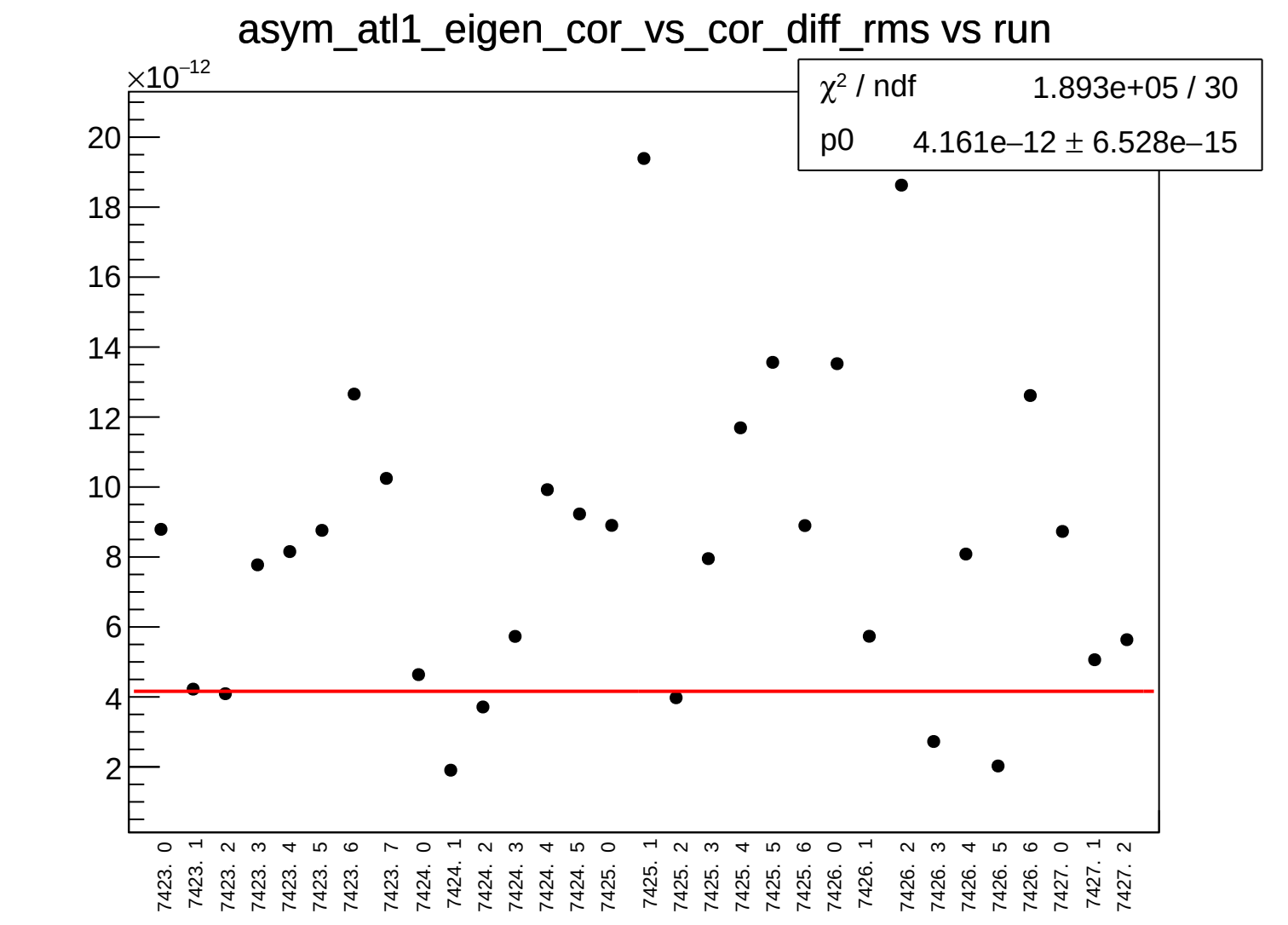

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.183e+04 / 30
p0 69.5 ± 0.09341
140
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

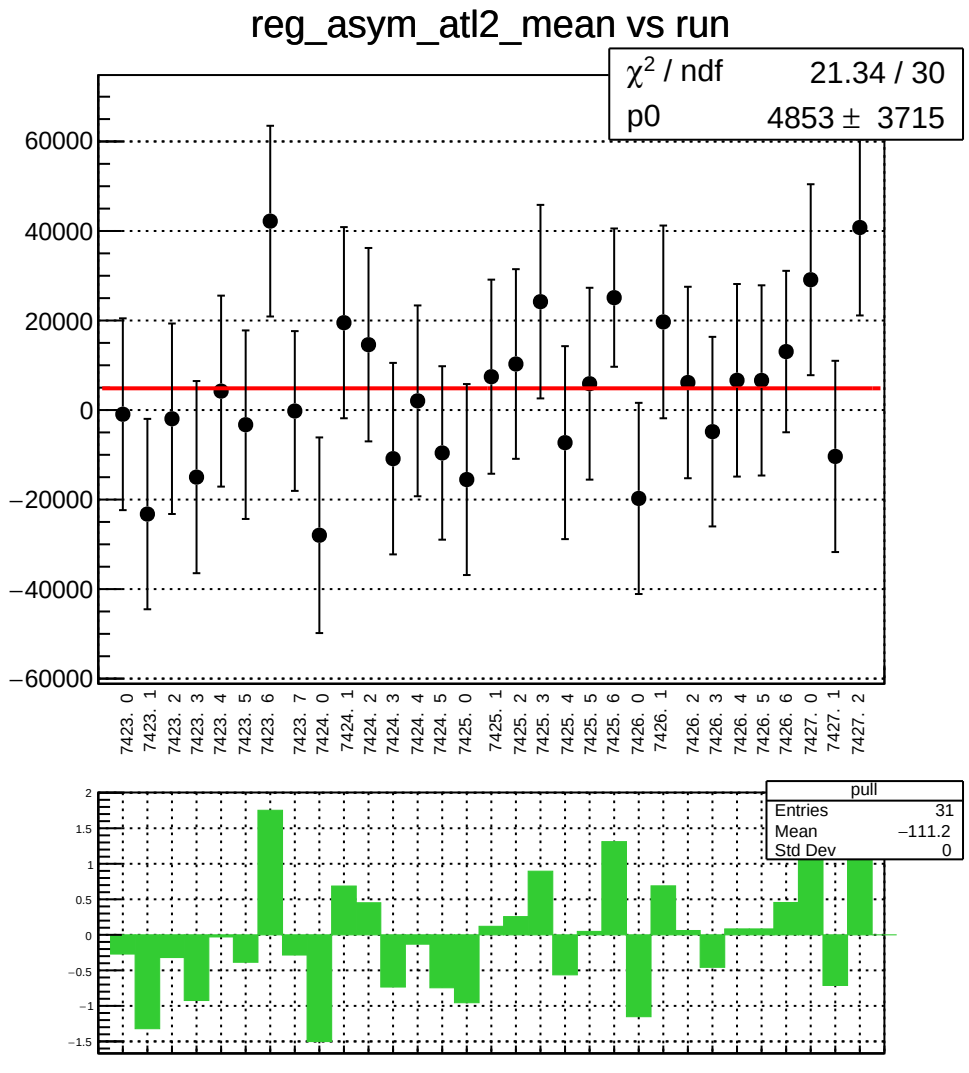

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.75 / 30
p0 0.08809 ± 0.1321
pull
Entries 31
Mean 75.83
Std Dev 0
pull1D
Entries 31
Mean −0.03717
Std Dev 0.9952

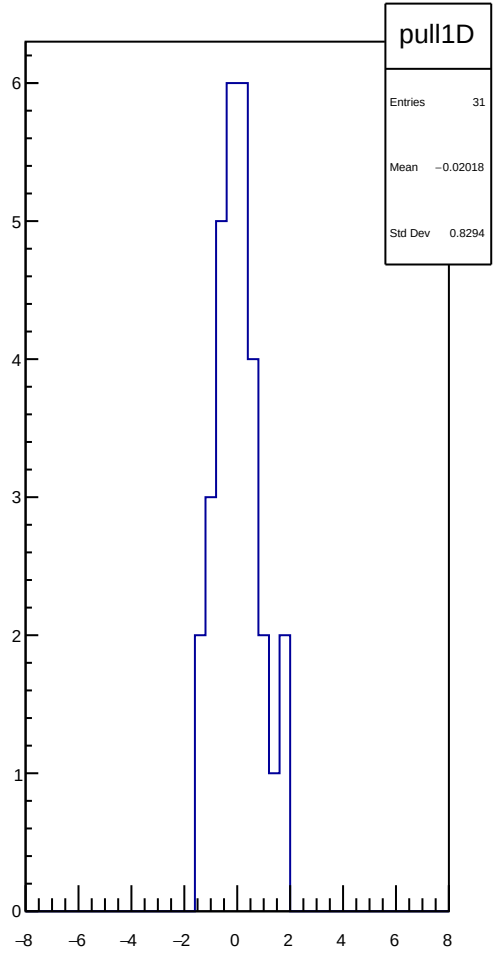

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.183e+04 / 30
p0 69.5 ± 0.09341
140
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

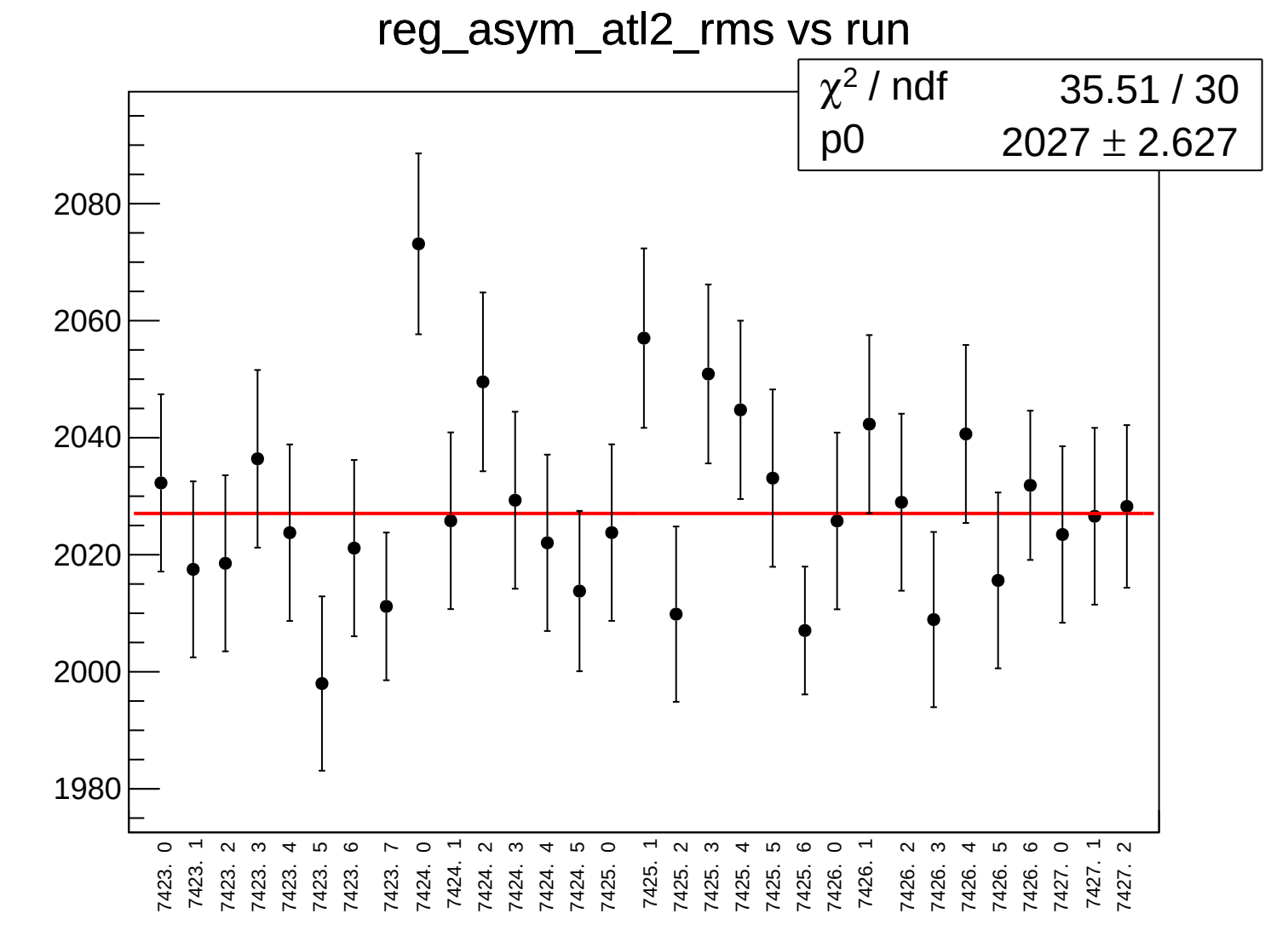

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.46 / 30
p0 2.686e−15 ± 9.232e−15
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 4.599
Std Dev 3.651
3
2
1
0
−1
−2

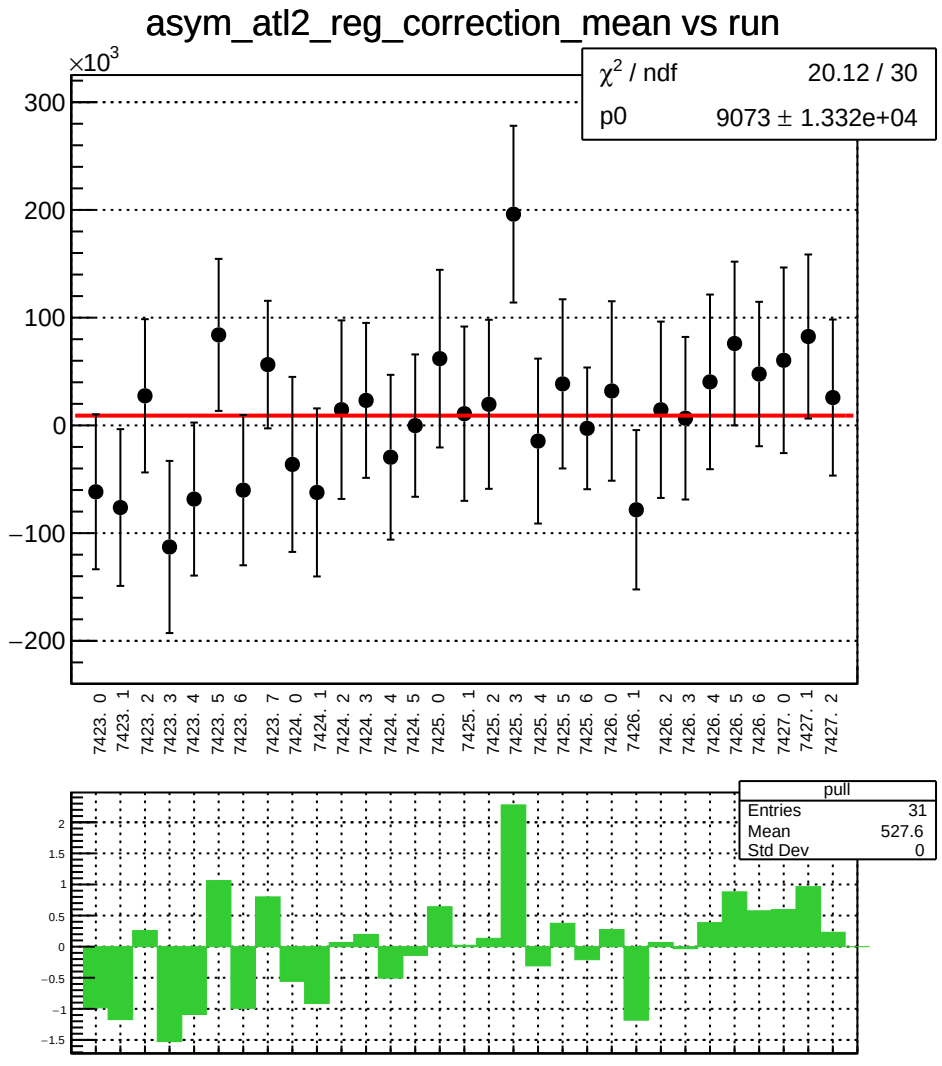

pull1D
Entries 31
Mean 0.1817
Std Dev 1.17
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

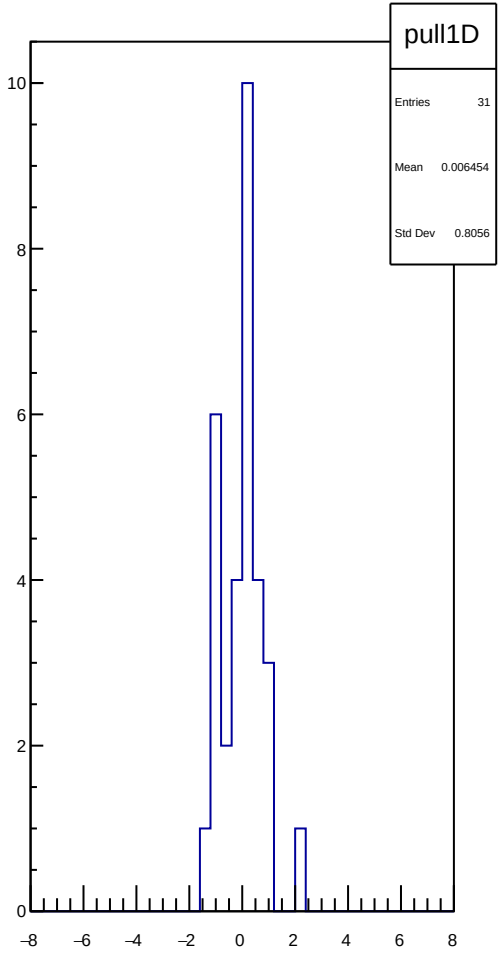

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.893e+05 / 30
p0 4.161e−12 ± 6.528e−15
20
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

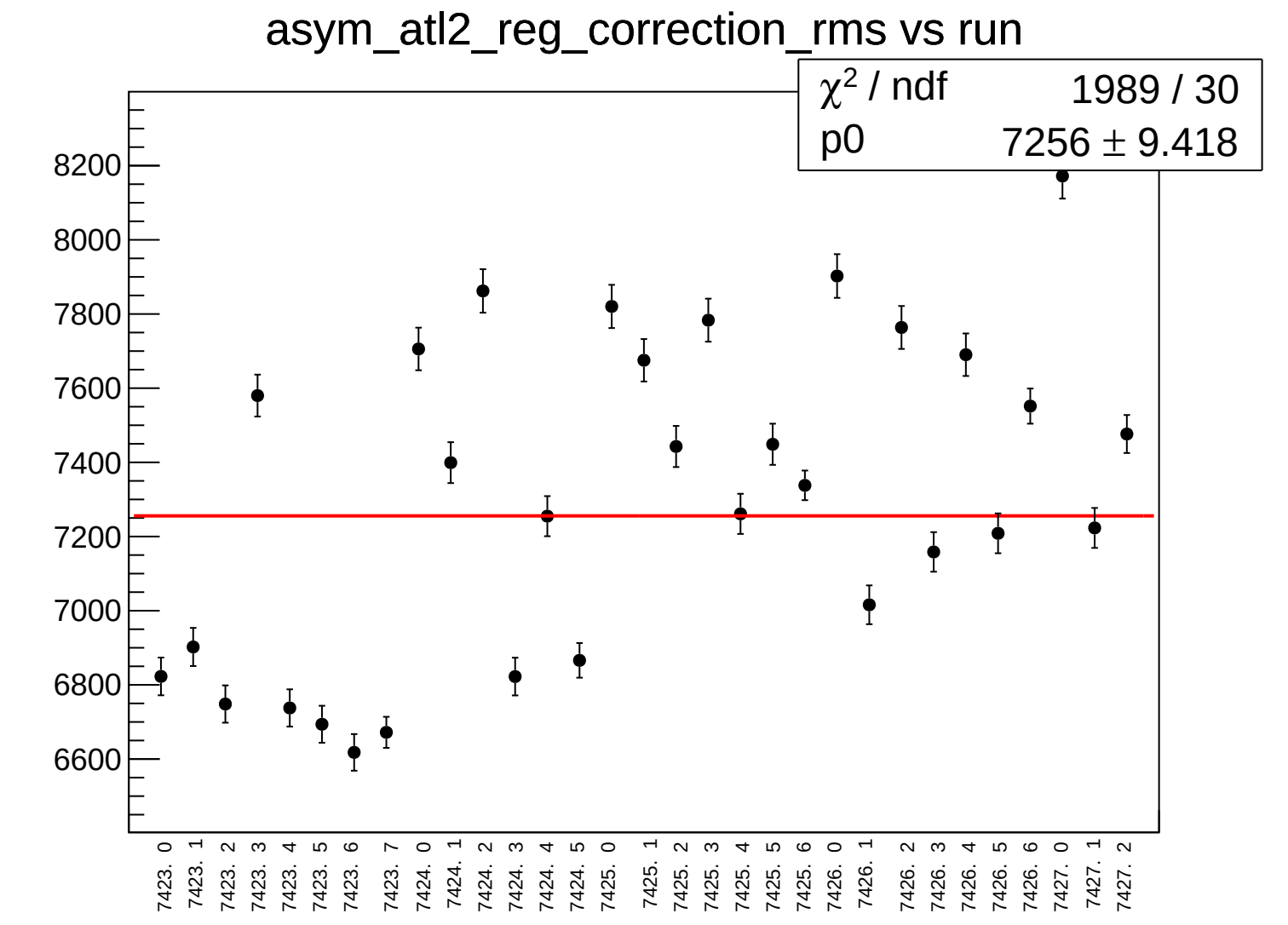

reg_asym_atl2_mean vs run
χ² / ndf 21.34 / 30
p0 4853 ± 3715
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −111.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

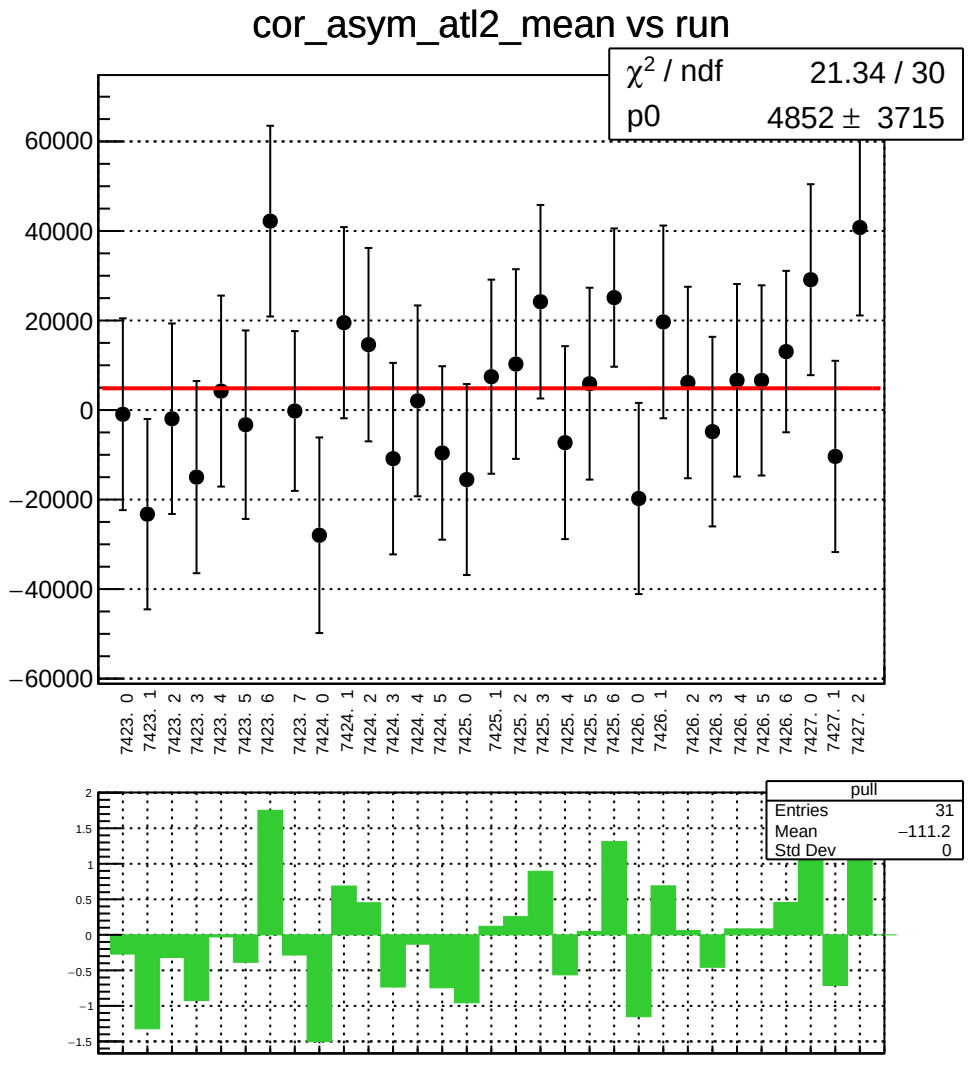

pull1D
Entries 31
Mean −0.02018
Std Dev 0.8294
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

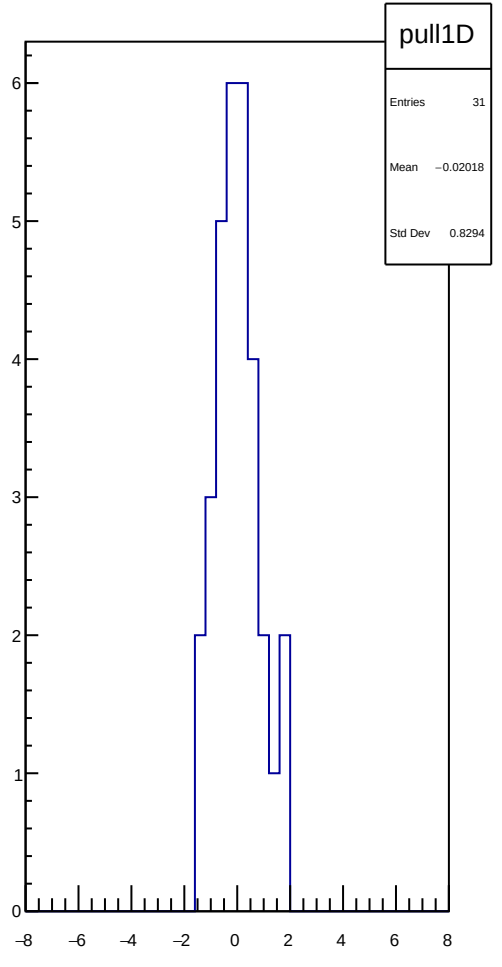

reg_asym_atl2_rms vs run
χ² / ndf 35.51 / 30
p0 2027 ± 2.627
2080
2060
2040
2020
2000
1980
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

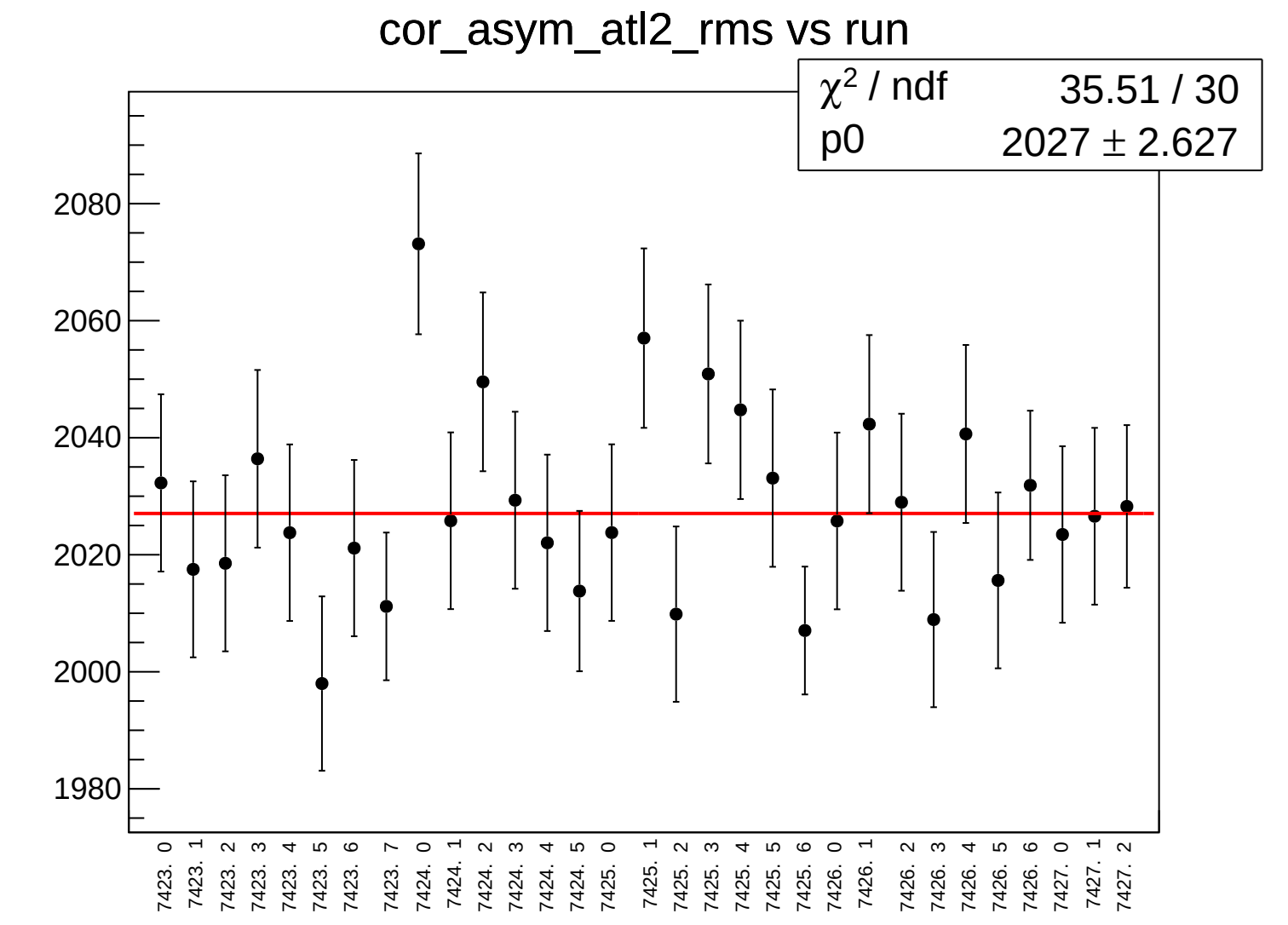

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 20.12 / 30
p0 9073 ± 1.332e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 527.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

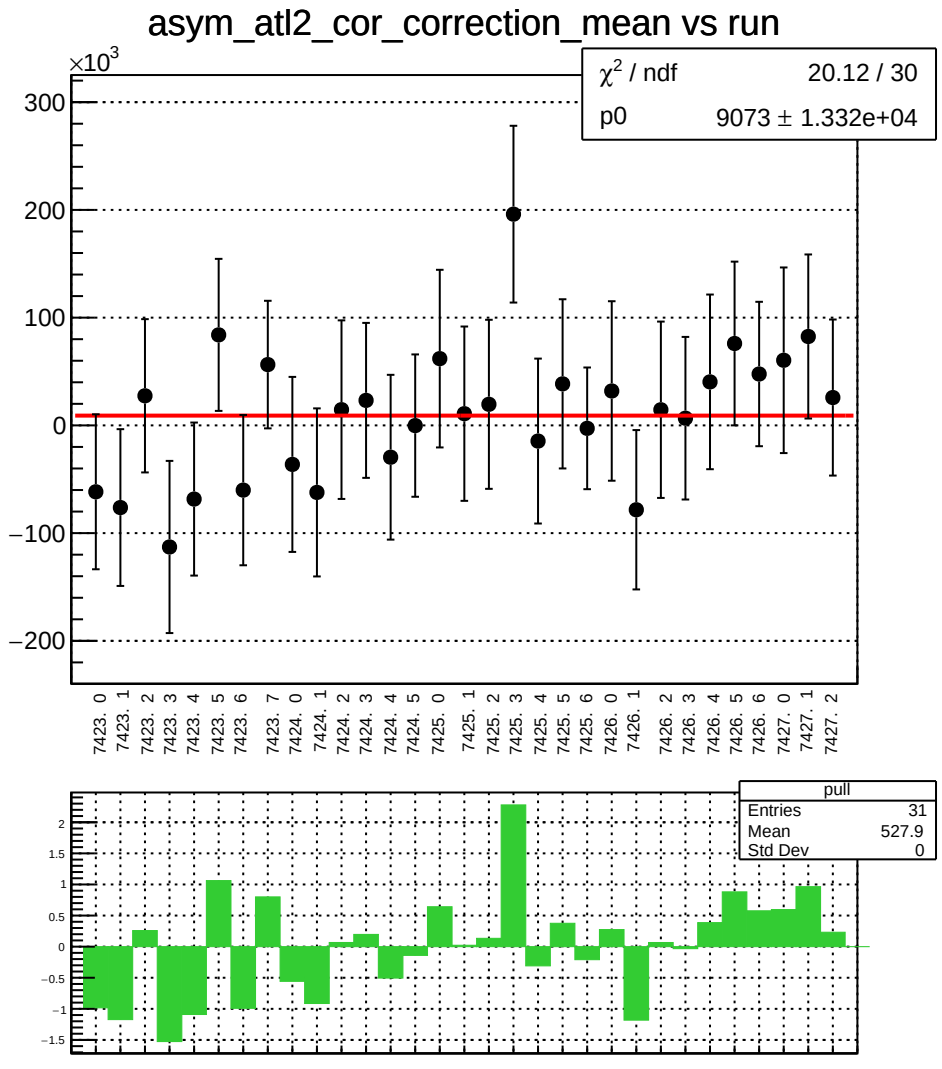

pull1D
Entries 31
Mean 0.006454
Std Dev 0.8056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

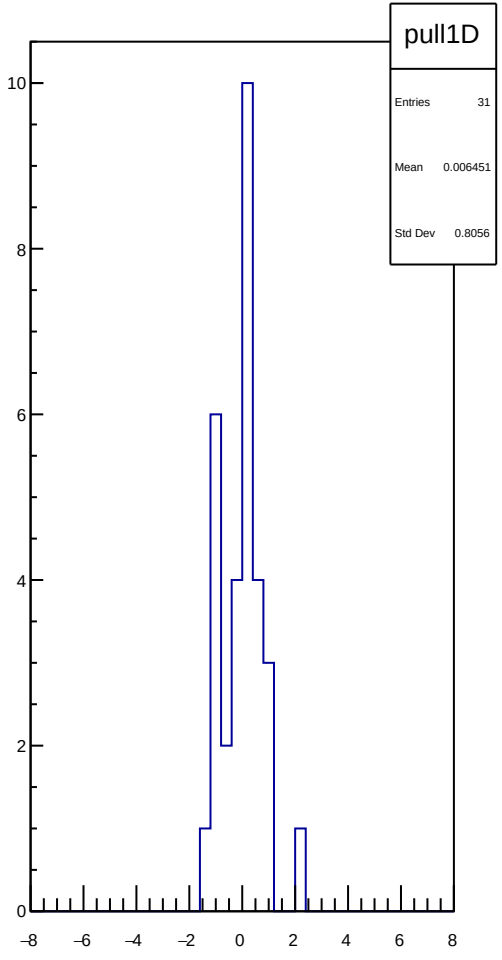

asym_atl2_reg_correction_rms vs run
χ² / ndf 1989 / 30
p0 7256 ± 9.418
8200
8000
7800
7600
7400
7200
7000
6800
6600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

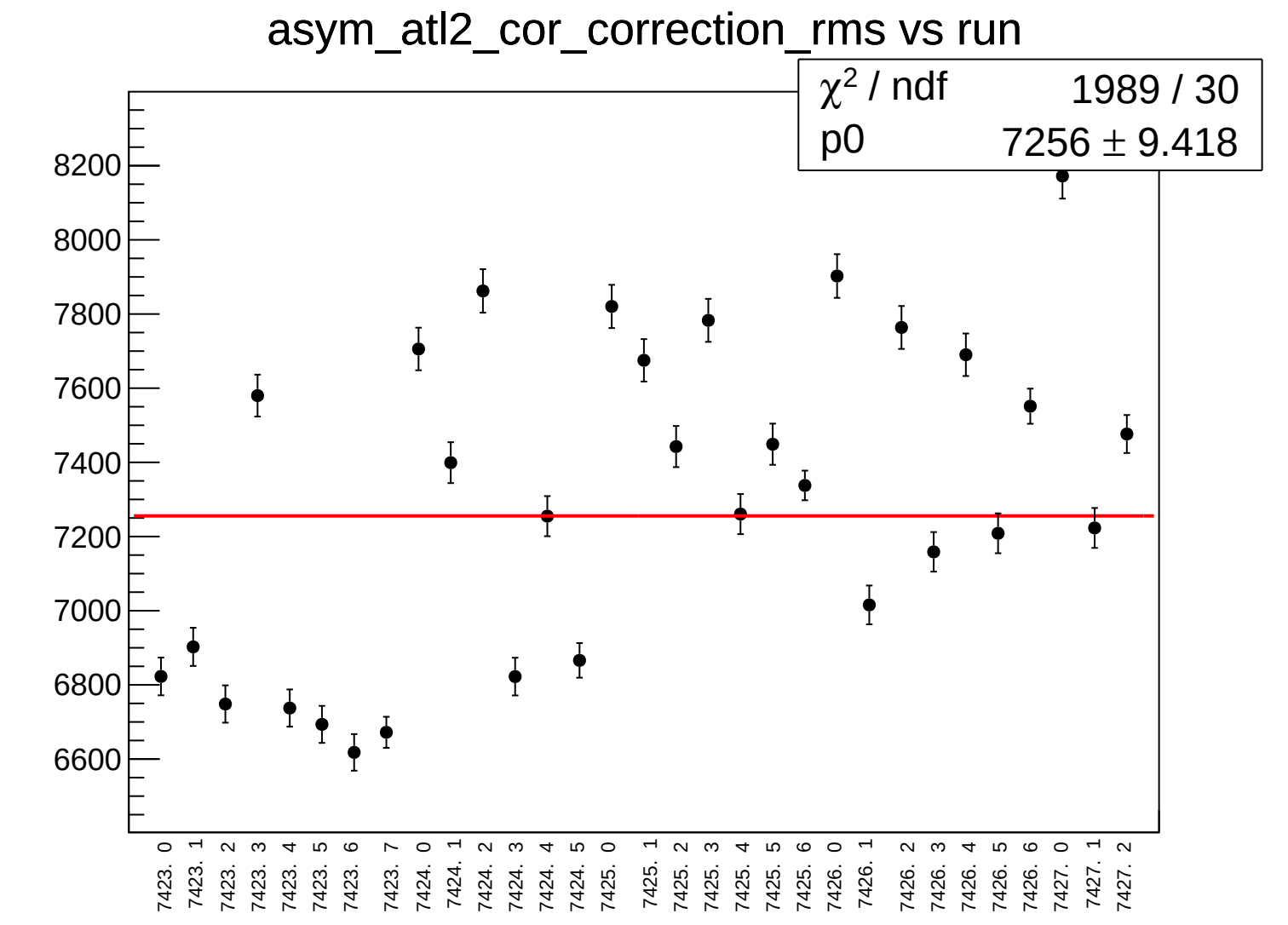

cor_asym_atl2_mean vs run
χ² / ndf 21.34 / 30
p0 4852 ± 3715
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −111.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

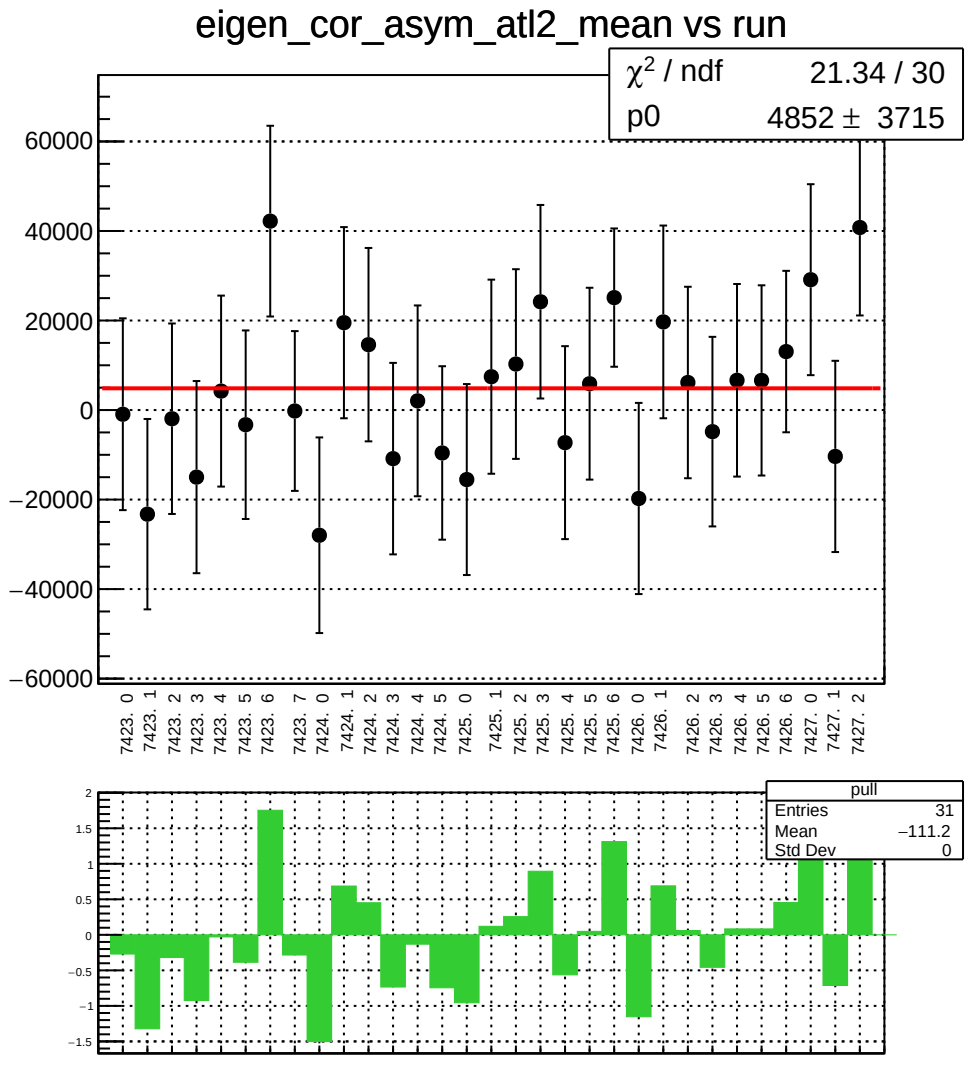

pull1D
Entries 31
Mean −0.02018
Std Dev 0.8294
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

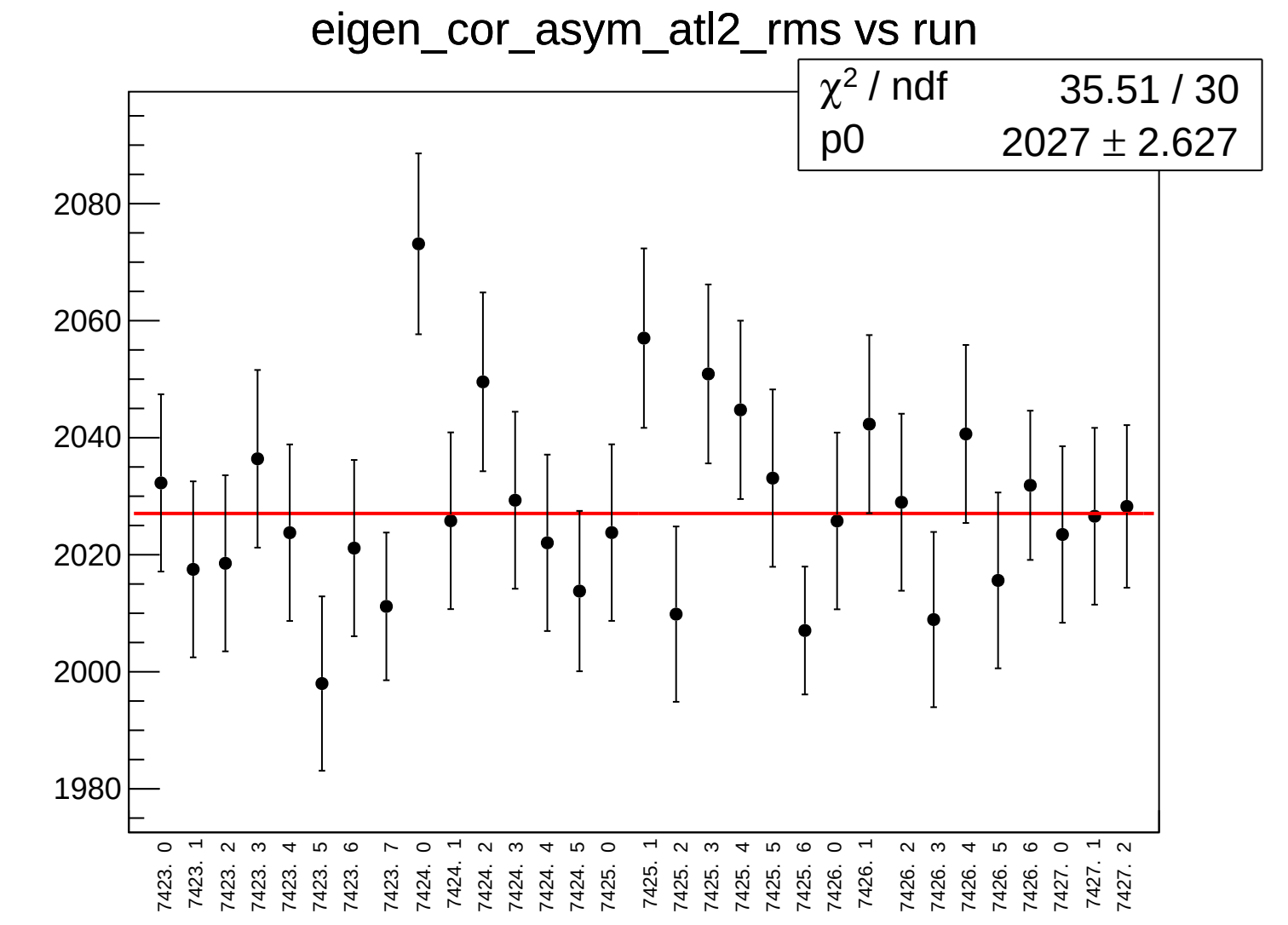

cor_asym_atl2_rms vs run
χ² / ndf 35.51 / 30
p0 2027 ± 2.627
2080
2060
2040
2020
2000
1980
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

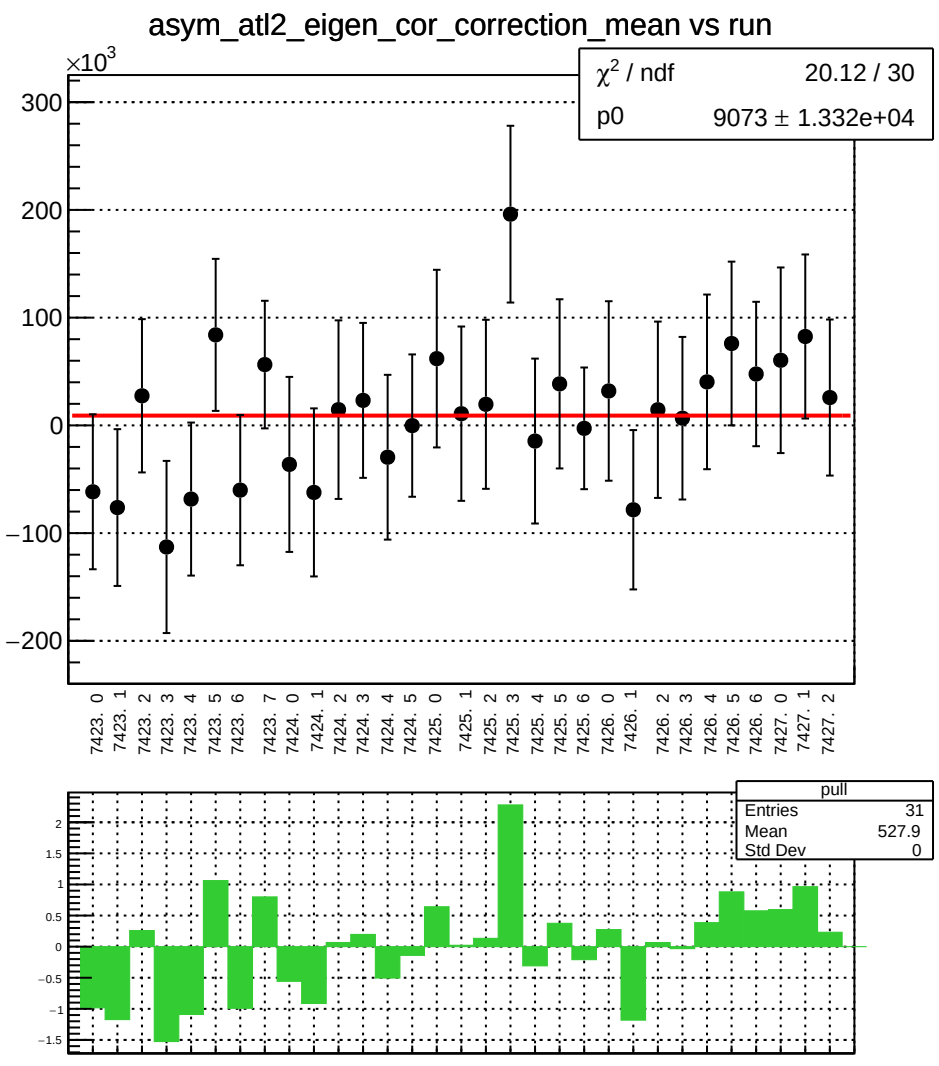

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 20.12 / 30
p0 9073 ± 1.332e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 527.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

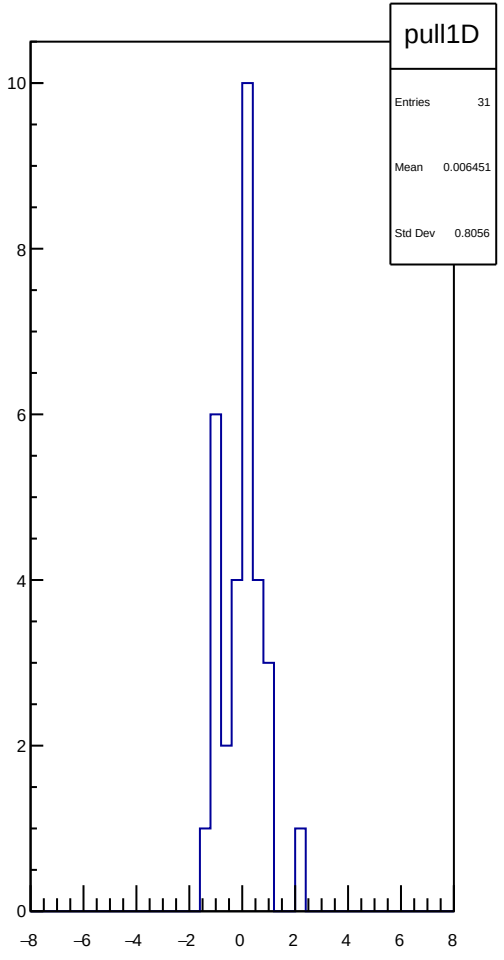

pull1D
Entries 31
Mean 0.006451
Std Dev 0.8056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

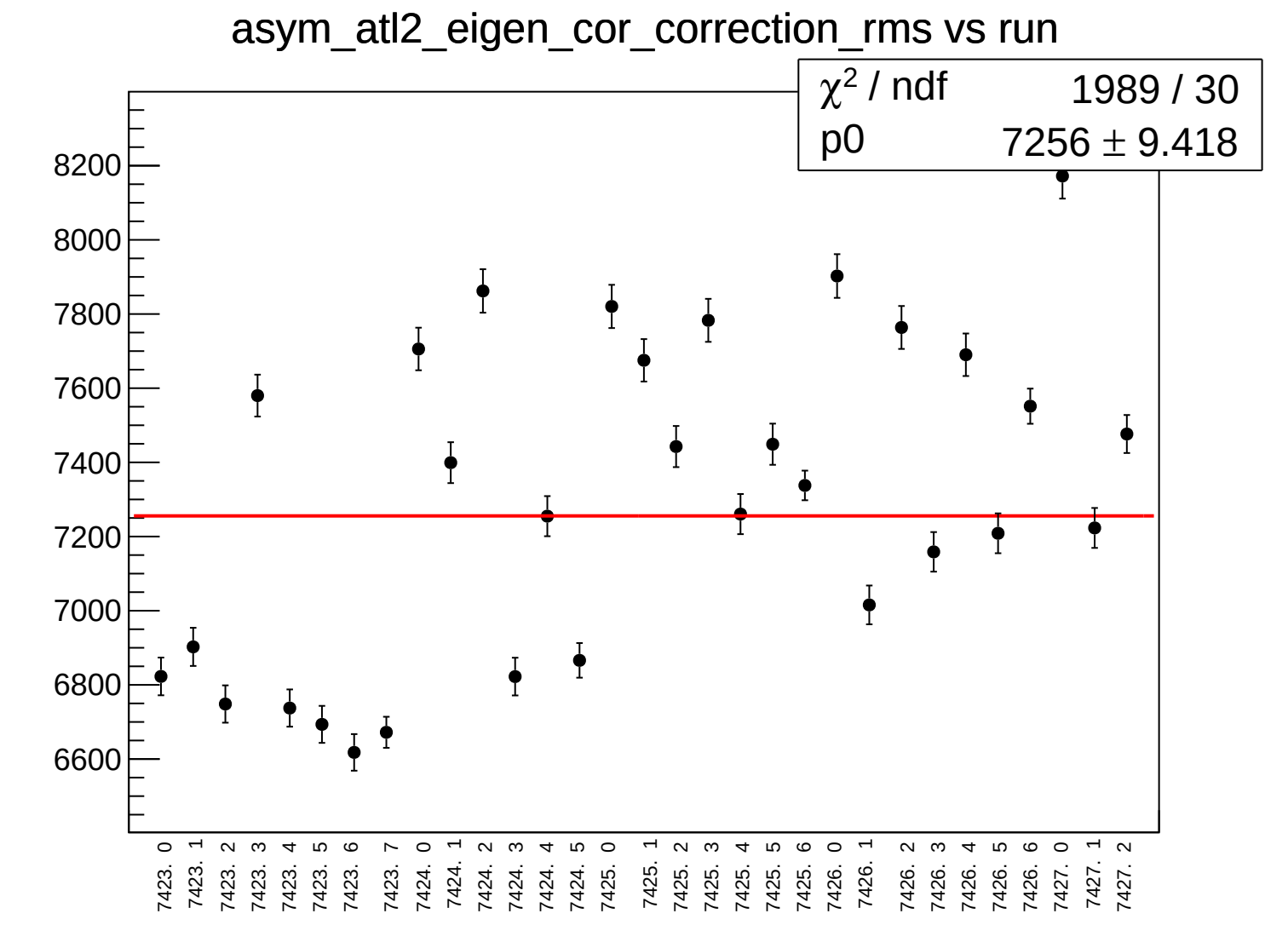

asym_atl2_cor_correction_rms vs run
χ² / ndf 1989 / 30
p0 7256 ± 9.418
8200
8000
7800
7600
7400
7200
7000
6800
6600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

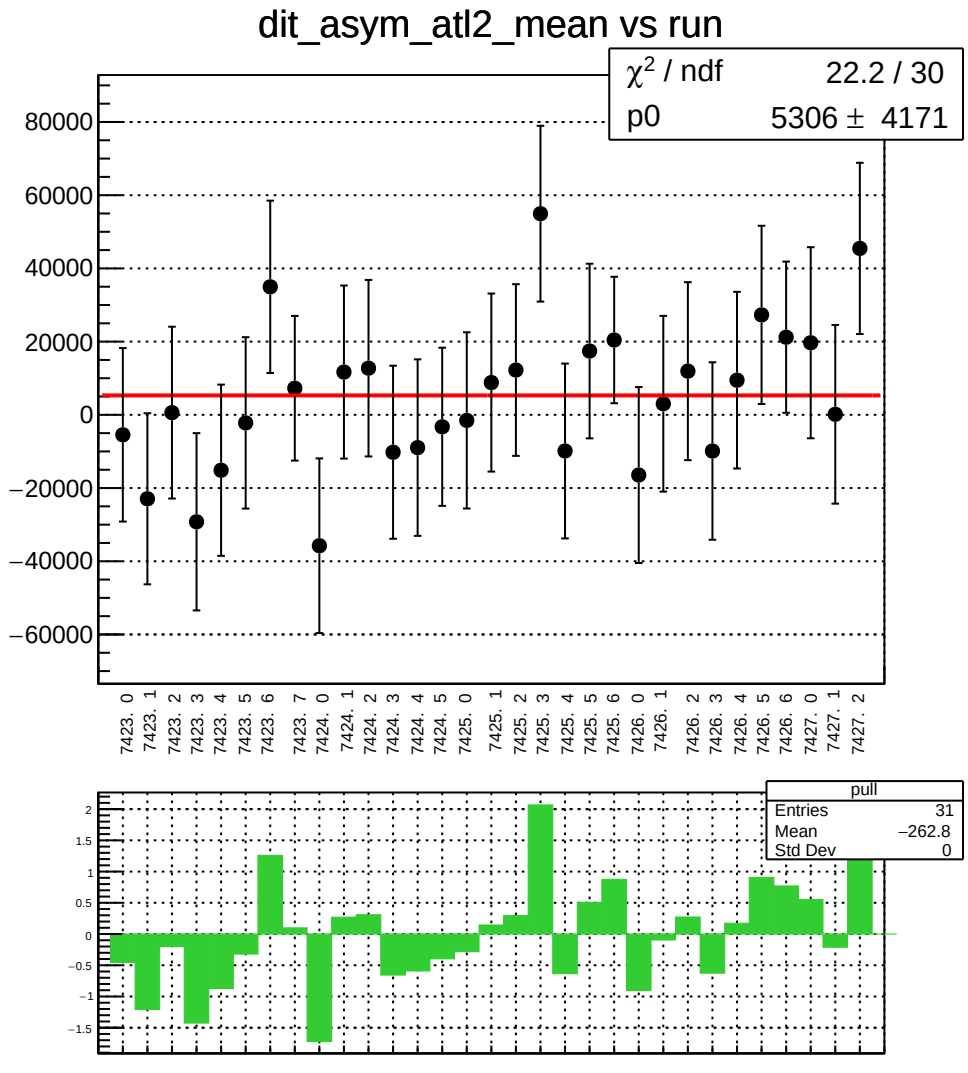

eigen_cor_asym_atl2_mean vs run
χ² / ndf 21.34 / 30
p0 4852 ± 3715
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −111.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.02018
Std Dev 0.8294
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

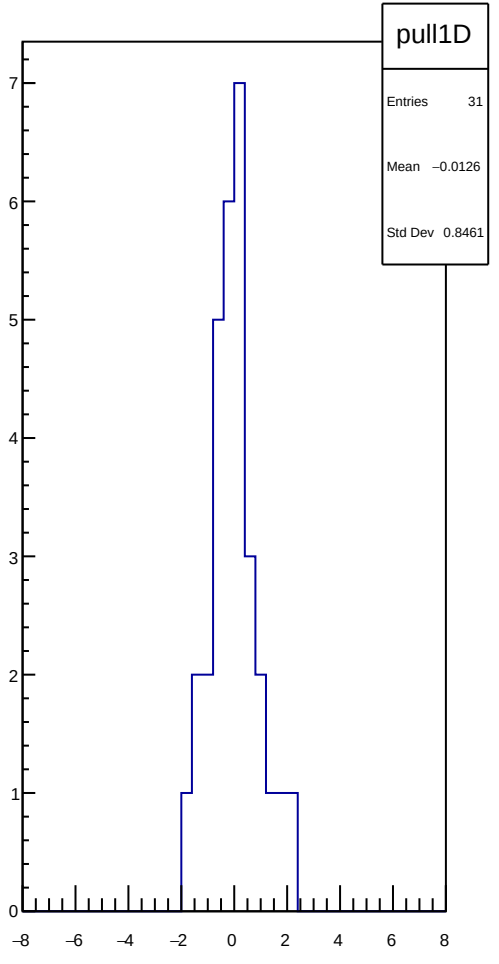

eigen_cor_asym_atl2_rms vs run
χ² / ndf 35.51 / 30
p0 2027 ± 2.627
2080
2060
2040
2020
2000
1980
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

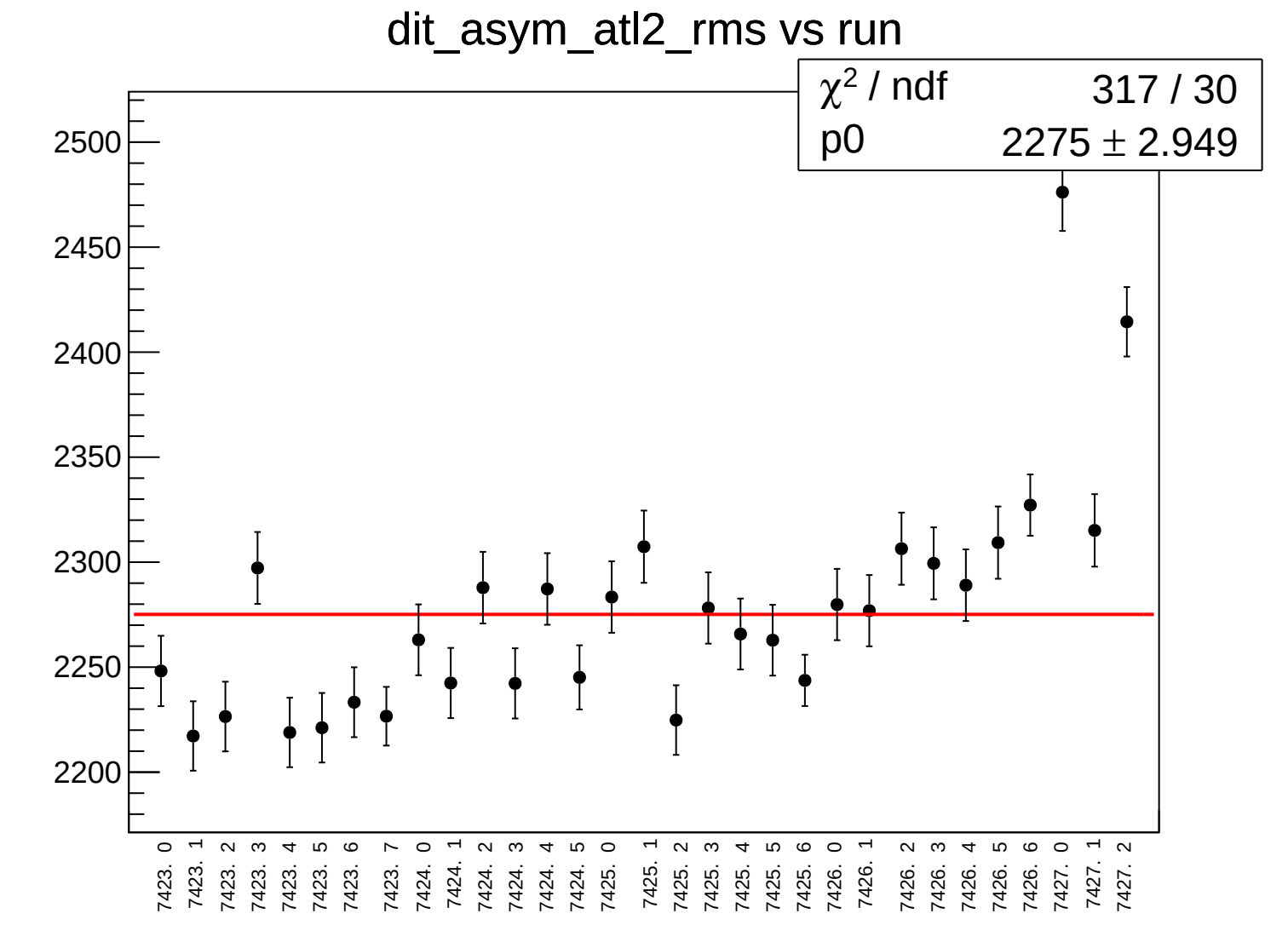

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 20.12 / 30
p0 9073 ± 1.332e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 527.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

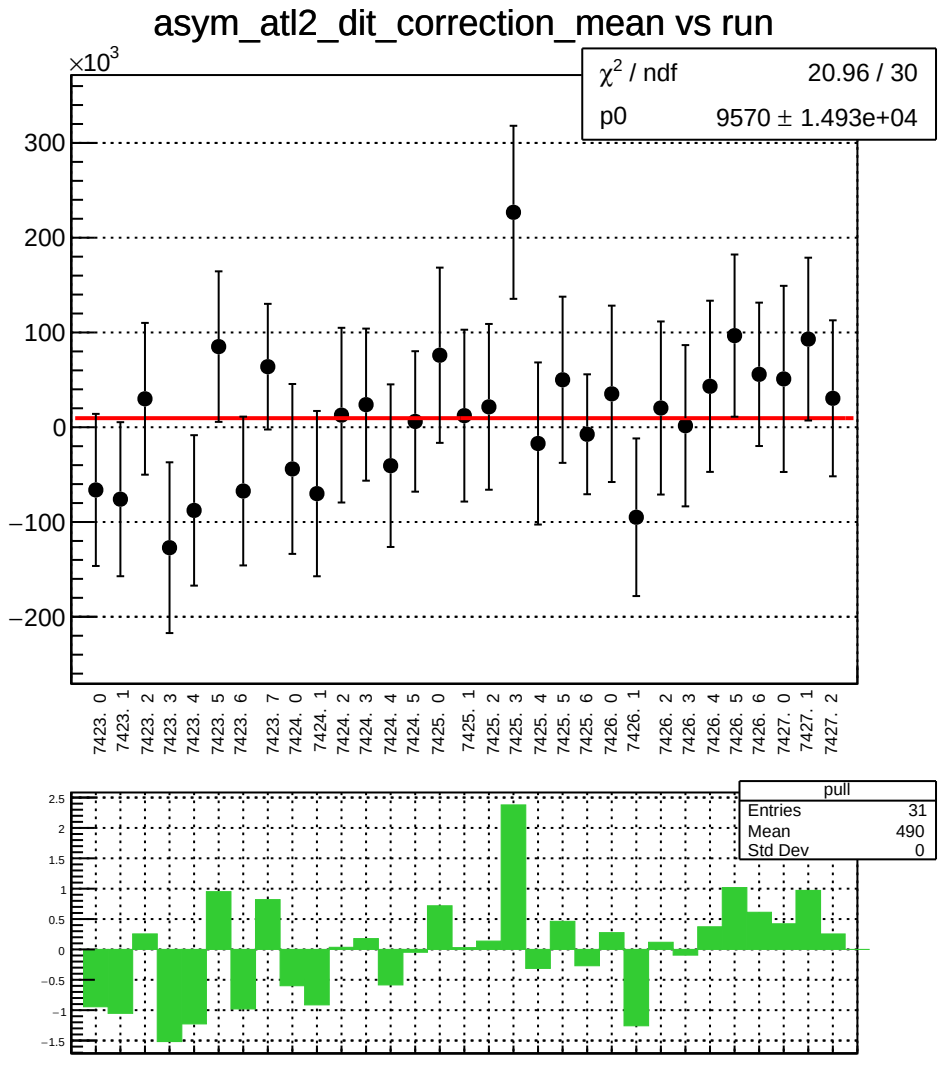

pull1D
Entries 31
Mean 0.006451
Std Dev 0.8056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

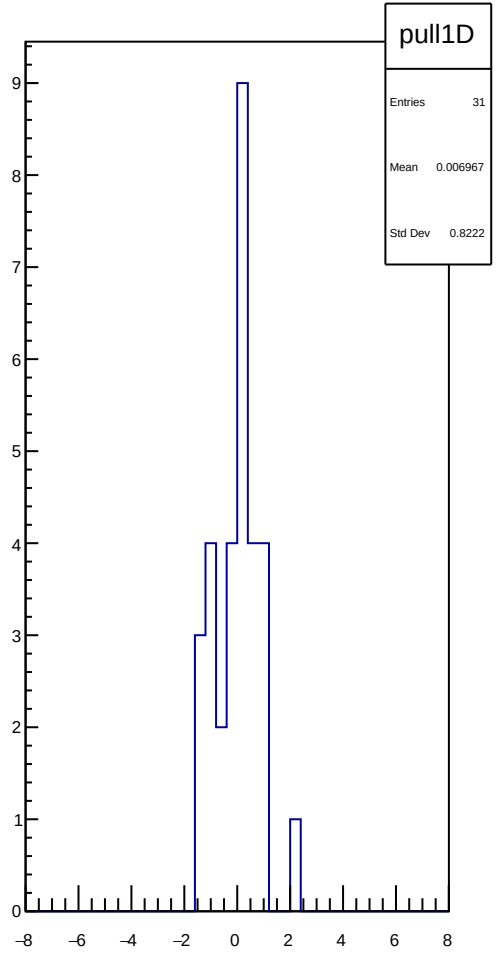

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1989 / 30
p0 7256 ± 9.418
8200
8000
7800
7600
7400
7200
7000
6800
6600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

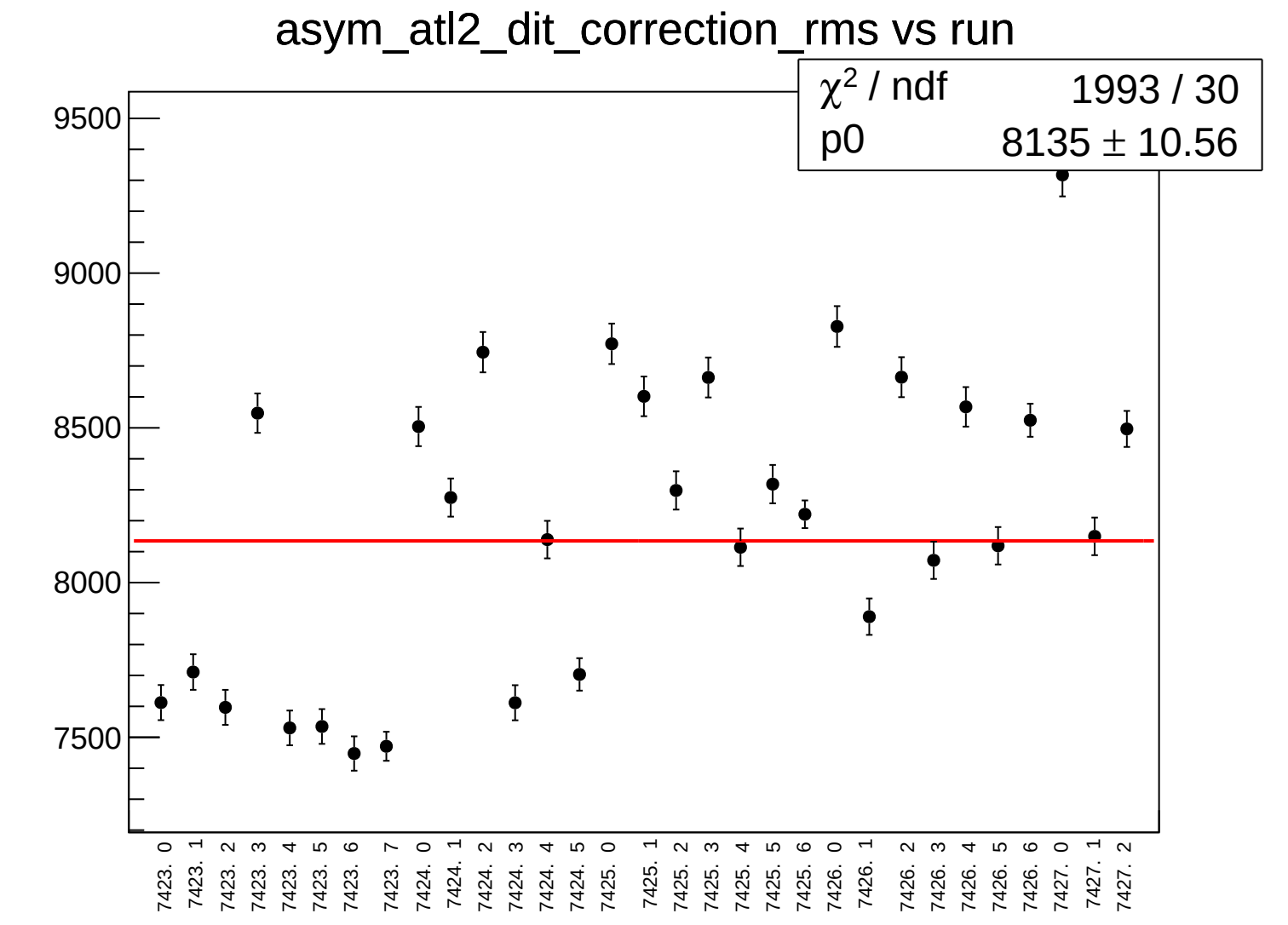

dit_asym_atl2_mean vs run
χ² / ndf 22.2 / 30
p0 5306 ± 4171
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −262.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

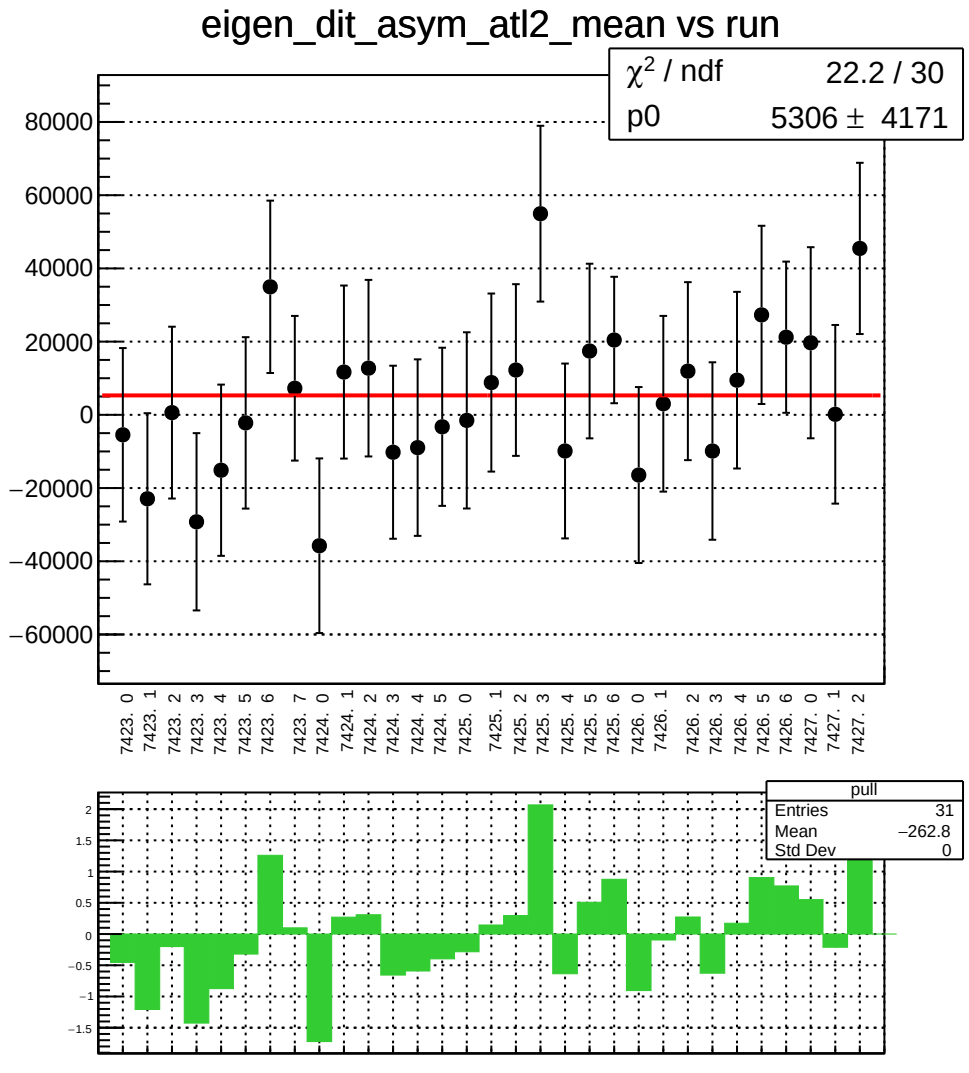

pull1D
Entries 31
Mean −0.0126
Std Dev 0.8461
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

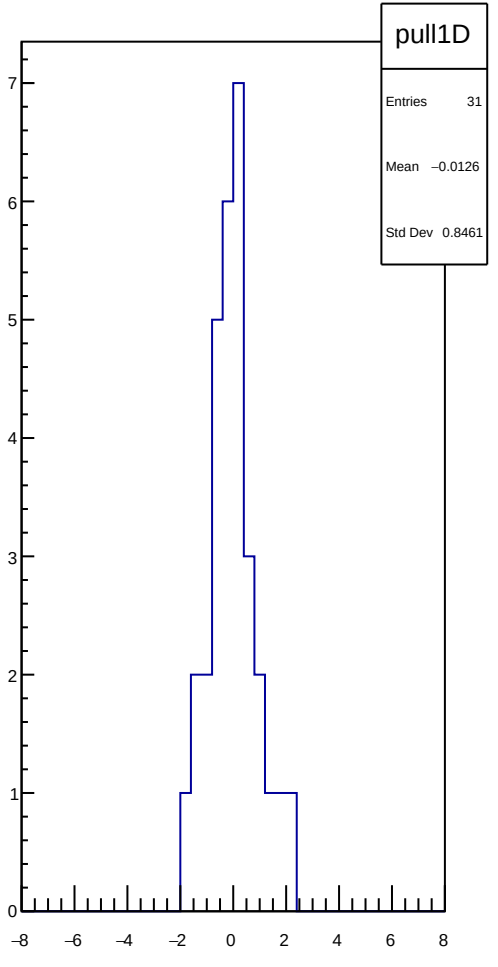

dit_asym_atl2_rms vs run
χ² / ndf 317 / 30
p0 2275 ± 2.949
2500
2450
2400
2350
2300
2250
2200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

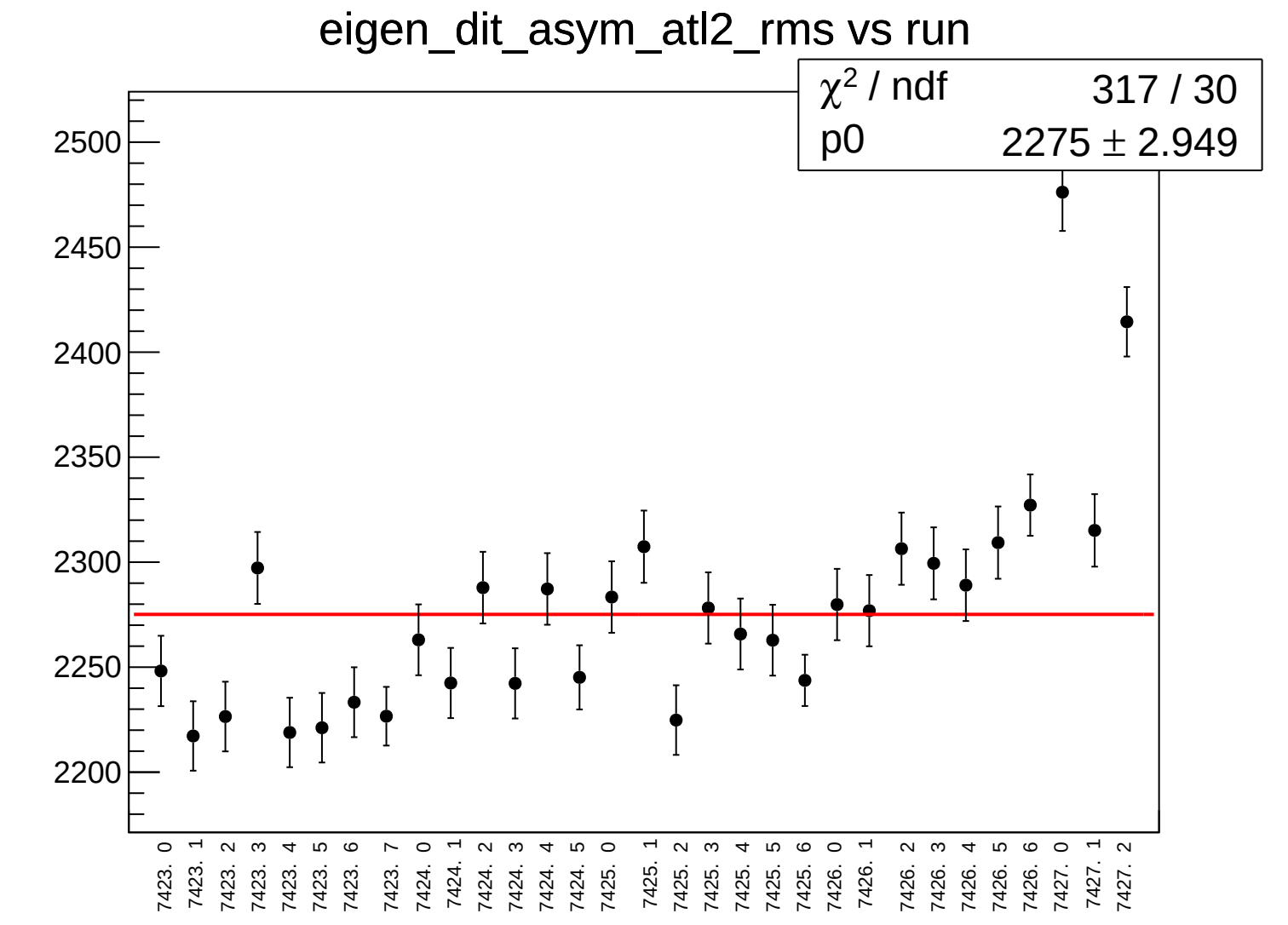

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 20.96 / 30
p0 9570 ± 1.493e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 490
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

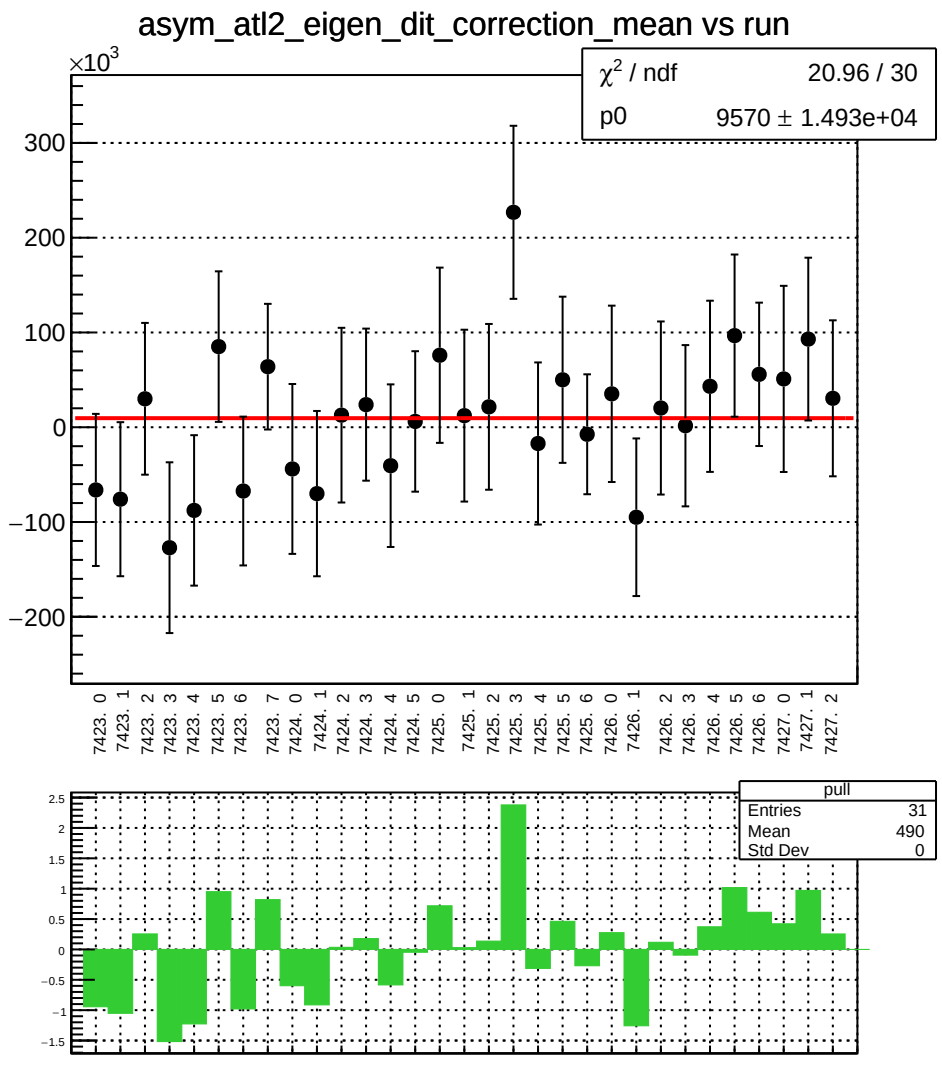

pull1D
Entries 31
Mean 0.006967
Std Dev 0.8222
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

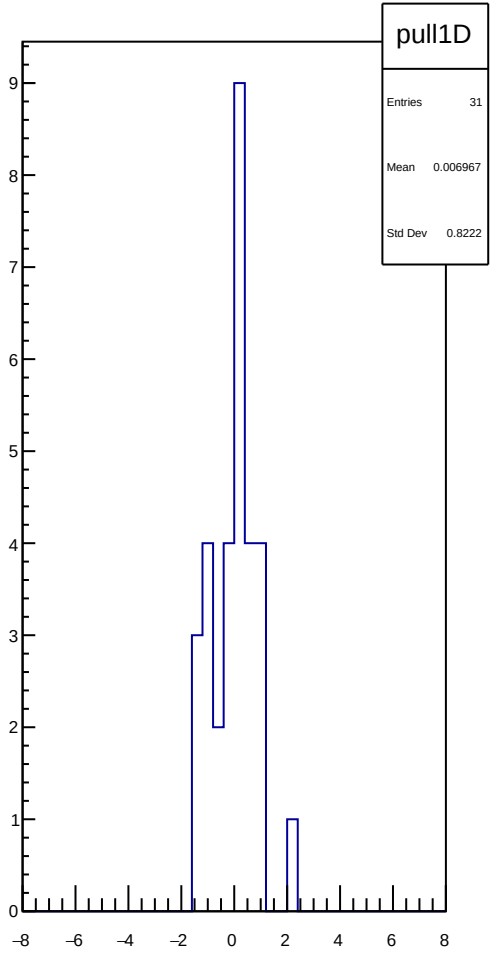

asym_atl2_dit_correction_rms vs run
χ² / ndf 1993 / 30
p0 8135 ± 10.56
9500
9000
8500
8000
7500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

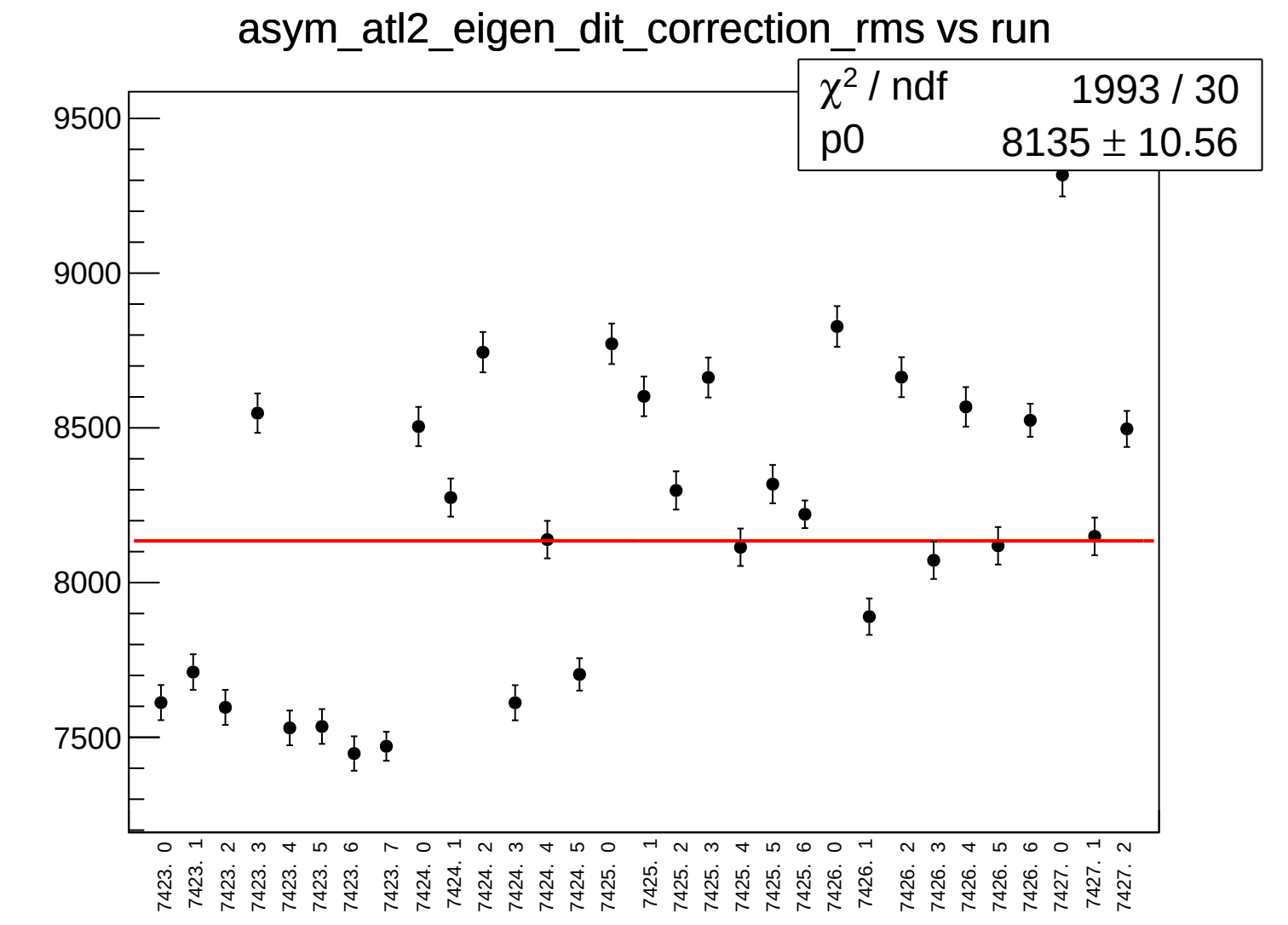

eigen_dit_asym_atl2_mean vs run
χ² / ndf 22.2 / 30
p0 5306 ± 4171
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −262.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

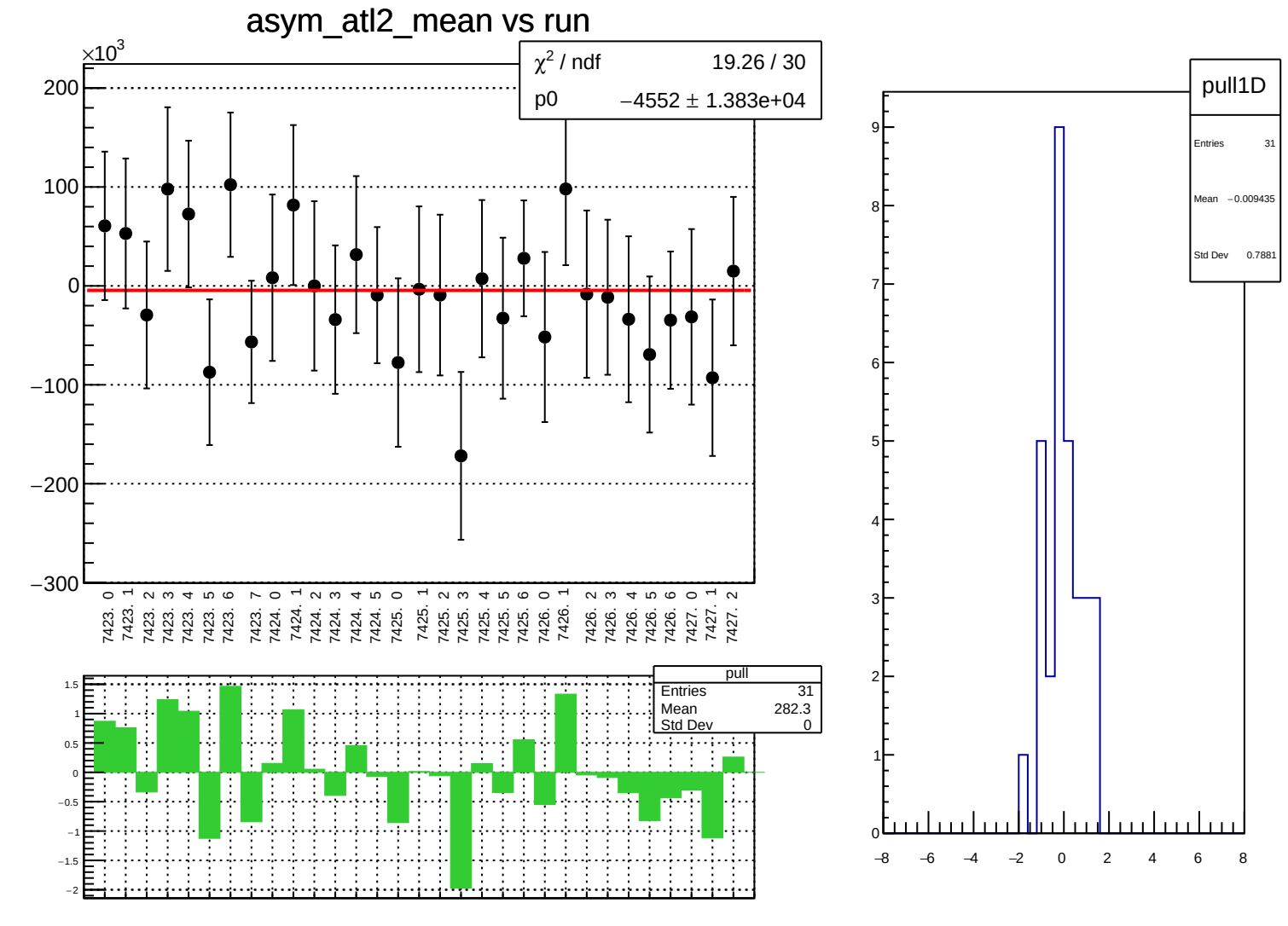

pull1D
Entries 31
Mean −0.0126
Std Dev 0.8461
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

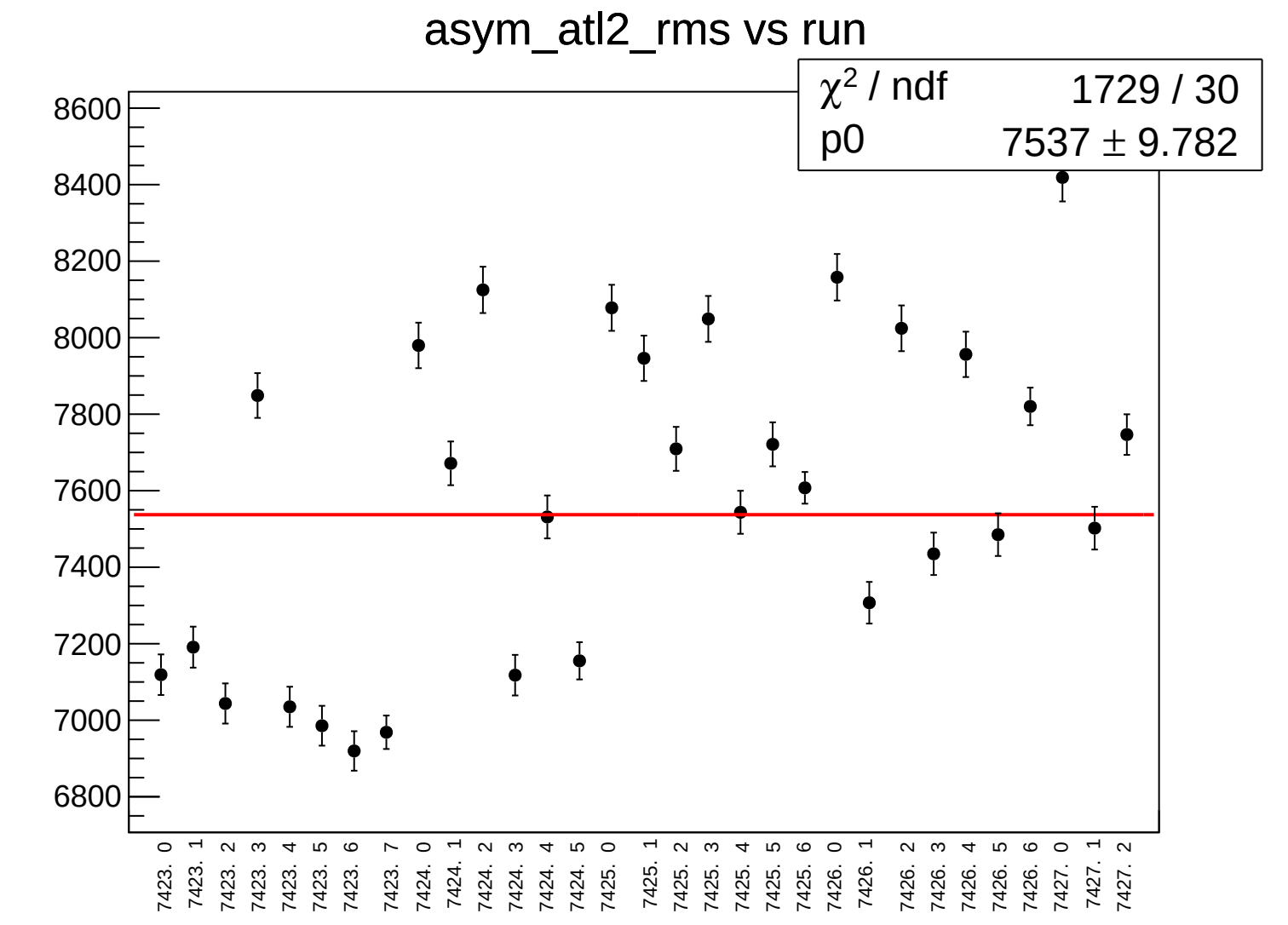

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 317 / 30
p0 2275 ± 2.949
2500
2450
2400
2350
2300
2250
2200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

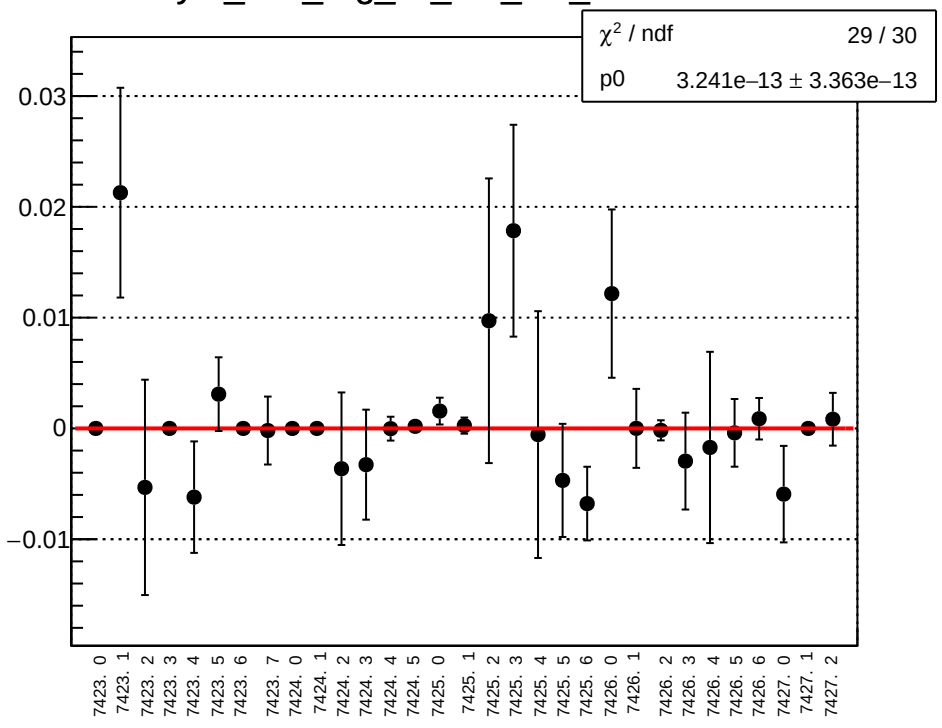

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 20.96 / 30
p0 9570 ± 1.493e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 490
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

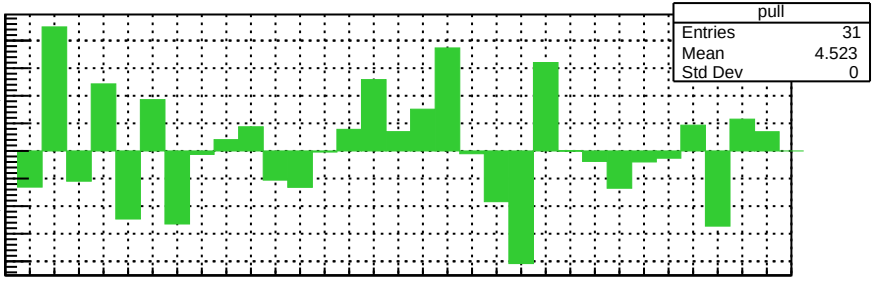

pull1D
Entries 31
Mean 0.006967
Std Dev 0.8222
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

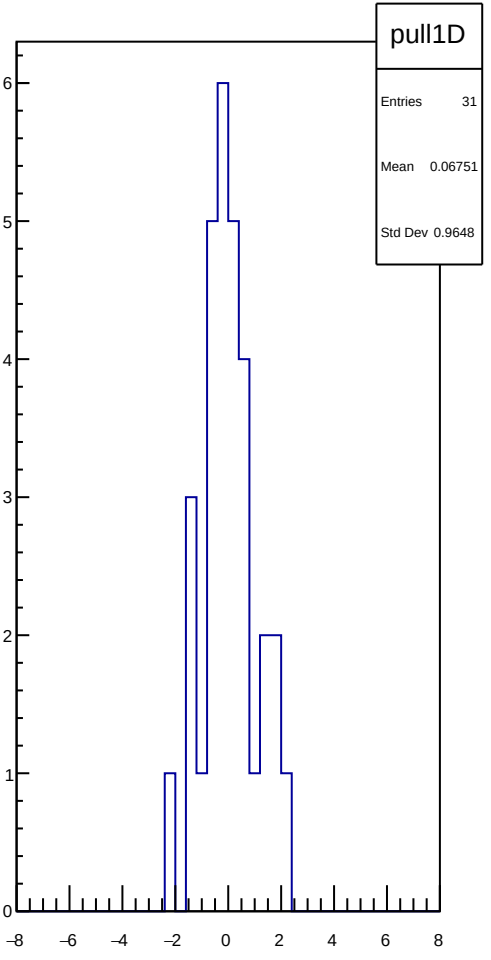

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1993 / 30
p0 8135 ± 10.56
9500
9000
8500
8000
7500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

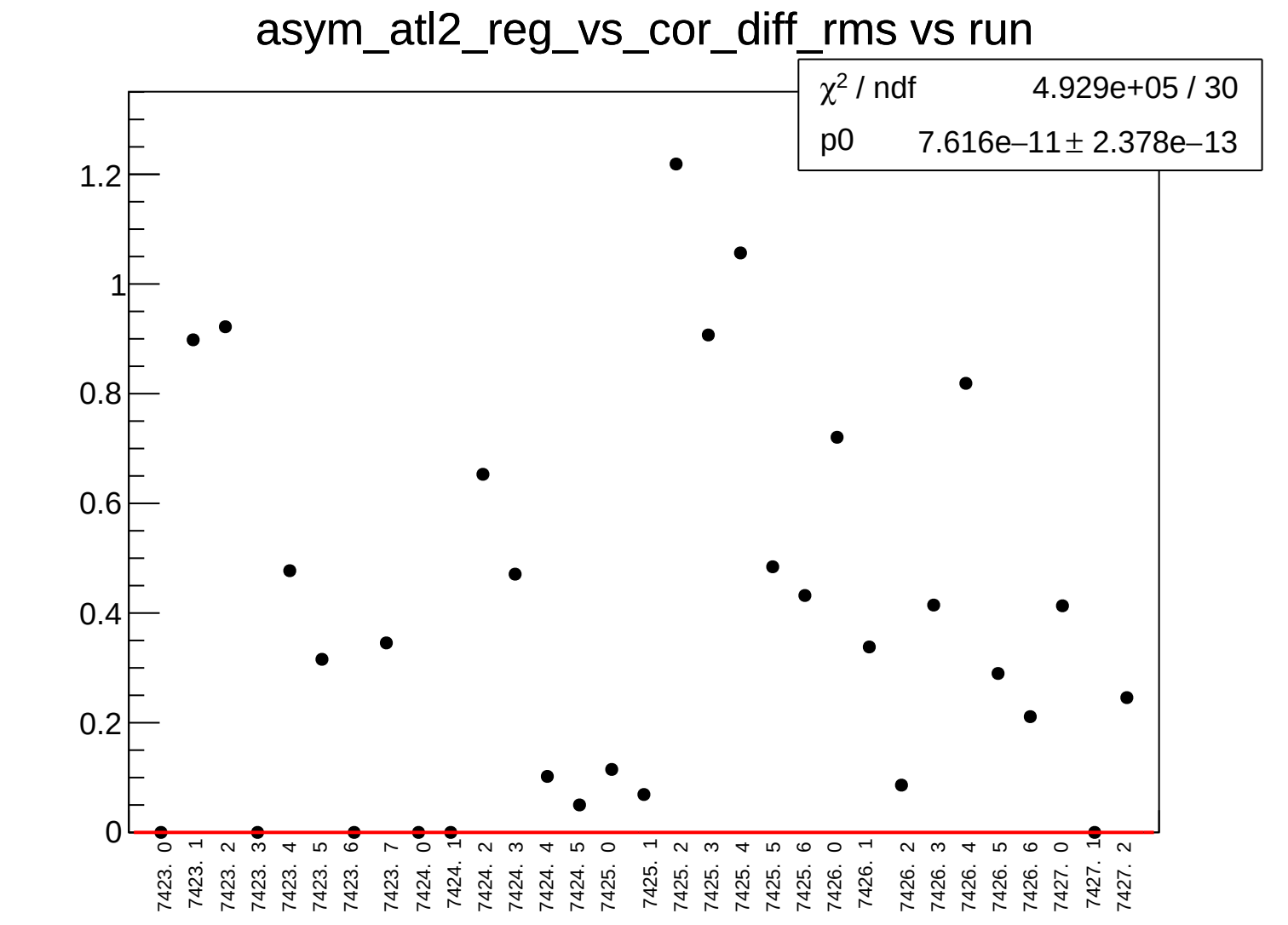

asym_atl2_mean vs run
×10^3
χ² / ndf 19.26 / 30
p0 −4552 ± 1.383e+04
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 282.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.009435
Std Dev 0.7881
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

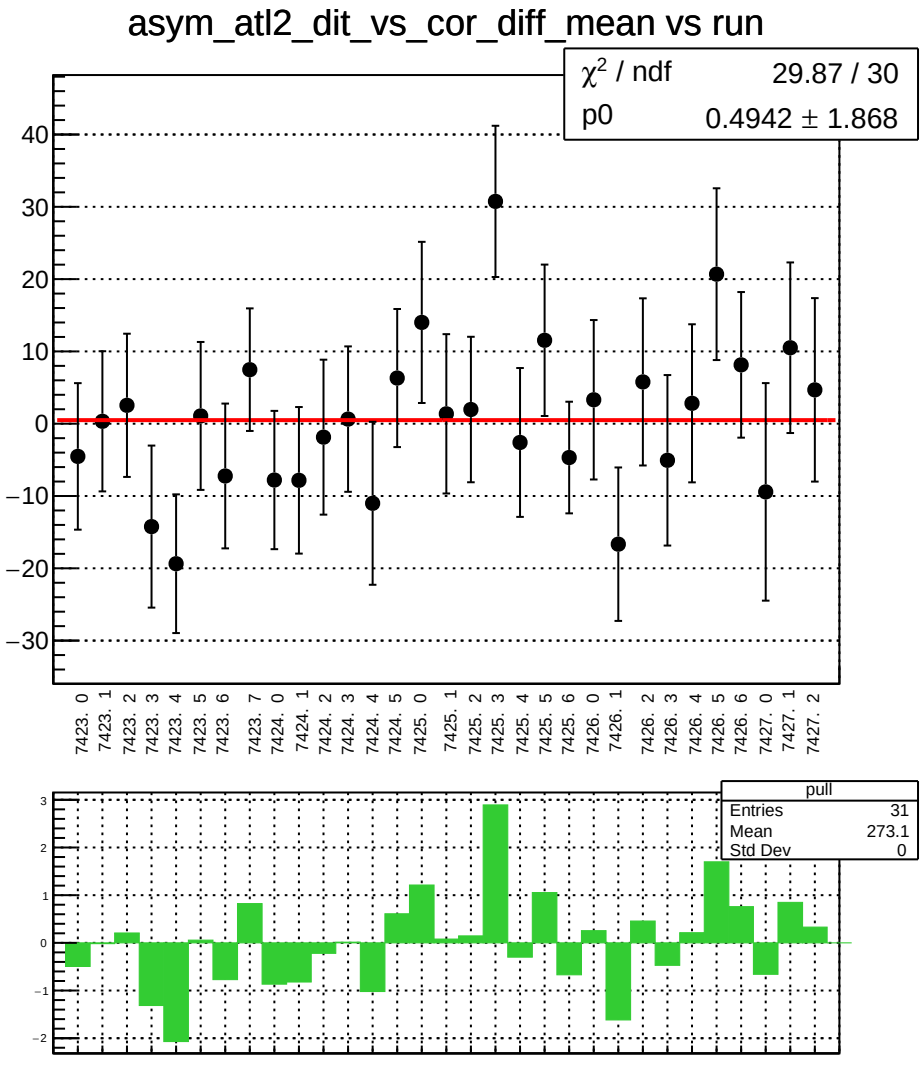

asym_atl2_rms vs run
χ² / ndf 1729 / 30
p0 7537 ± 9.782
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

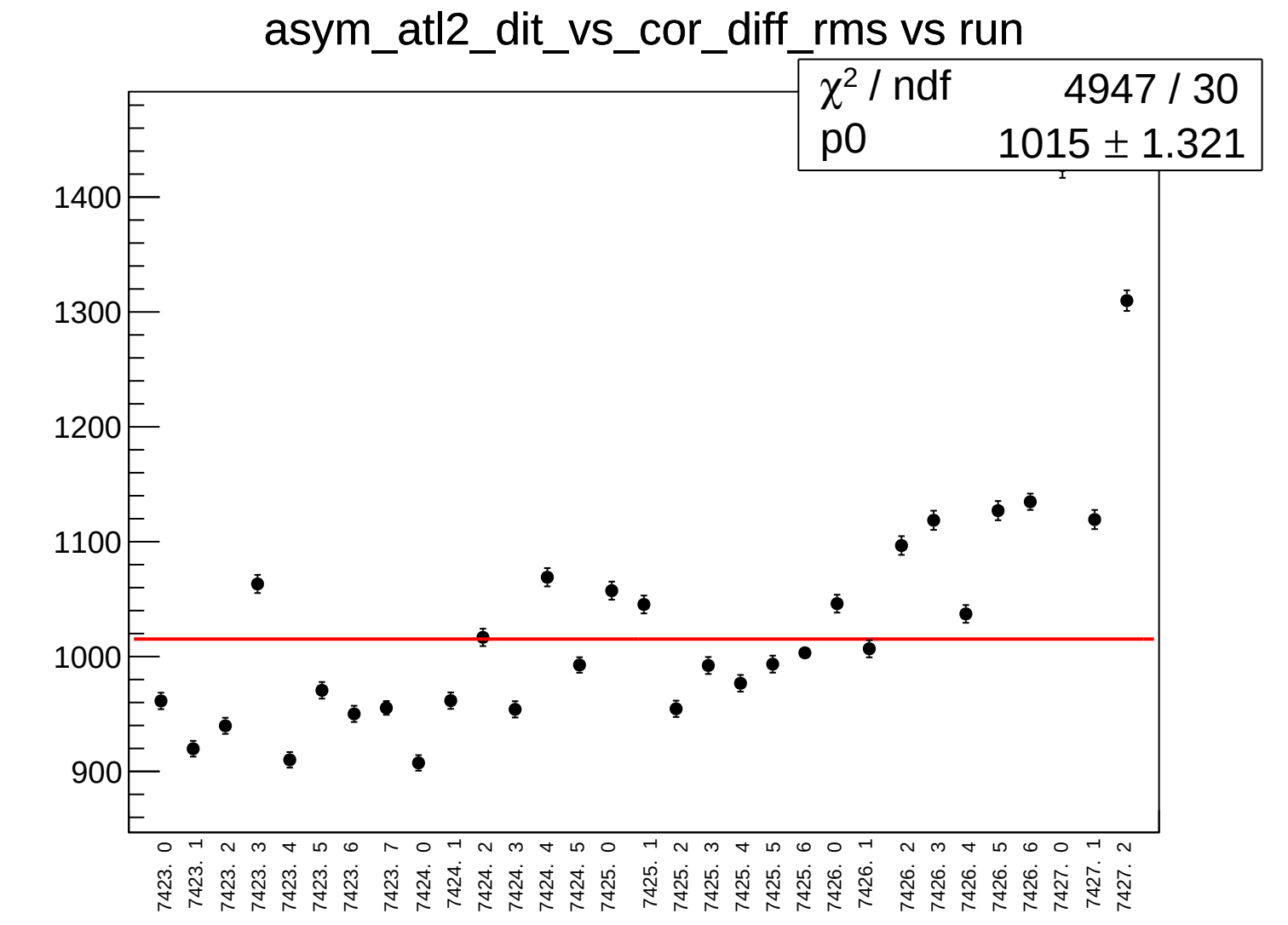

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 29 / 30
p0 3.241e−13 ± 3.363e−13
0.03
0.02
0.01
0
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

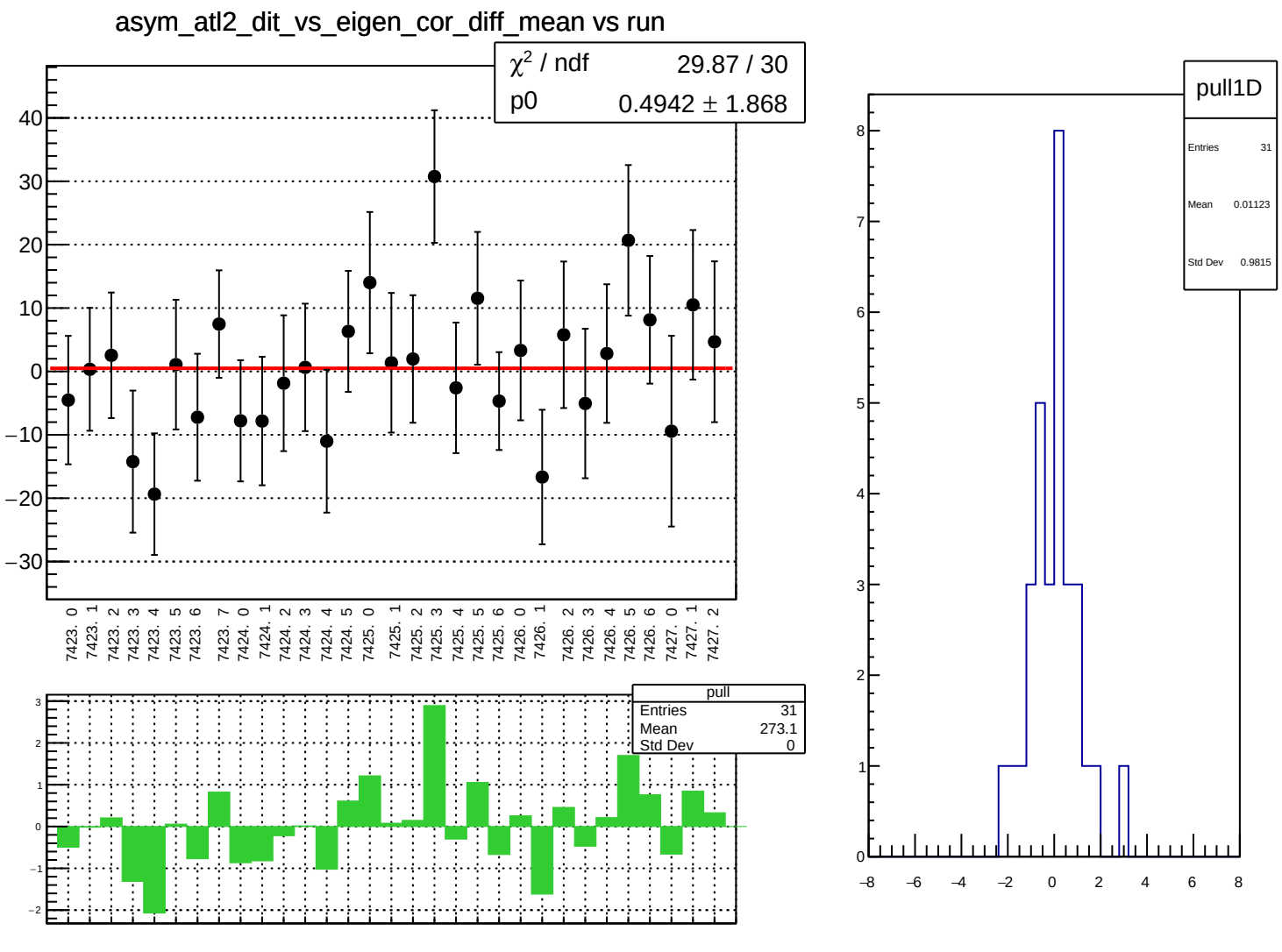

pull
Entries 31
Mean 4.523
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

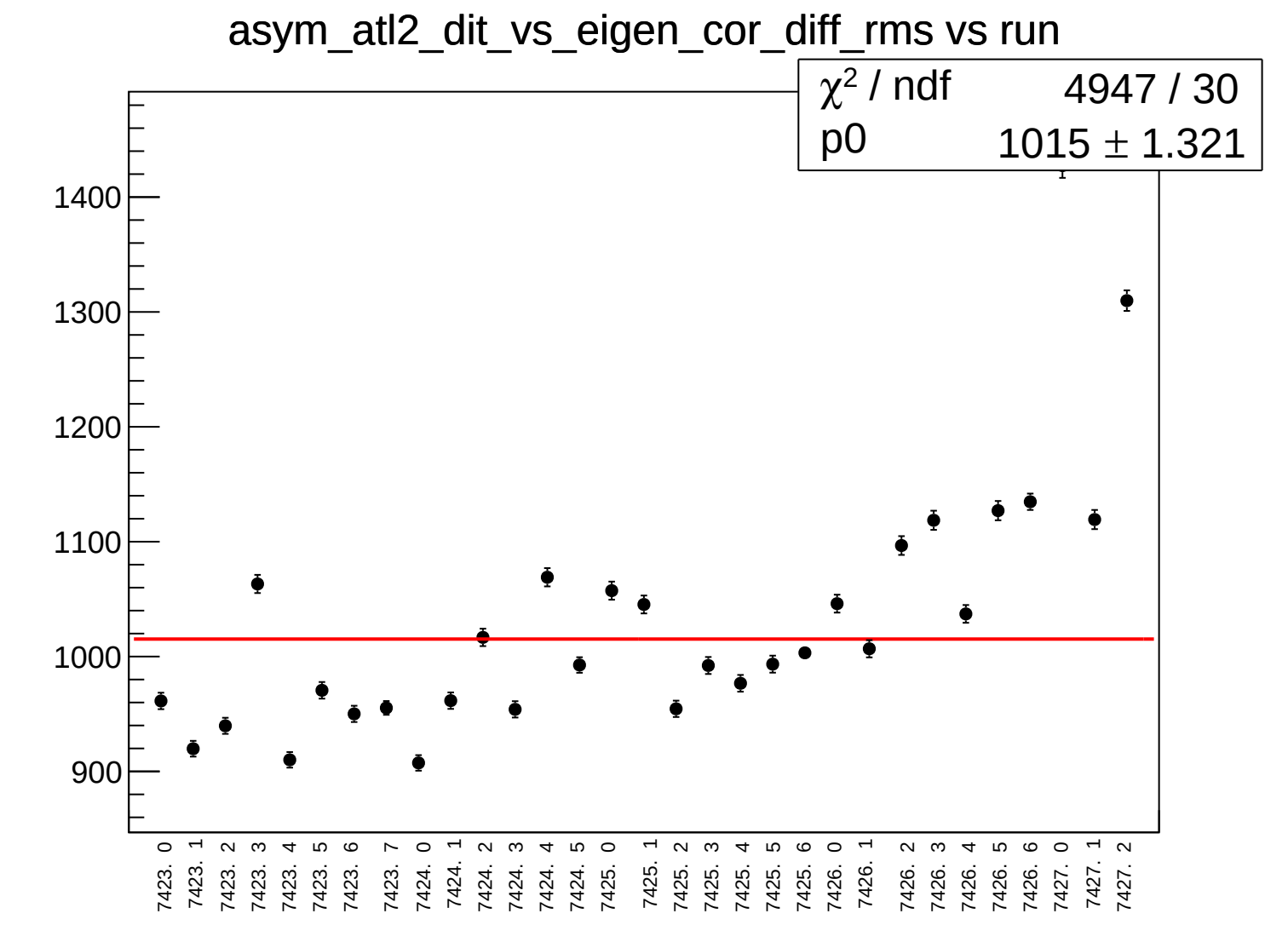

pull1D
Entries 31
Mean 0.06751
Std Dev 0.9648
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

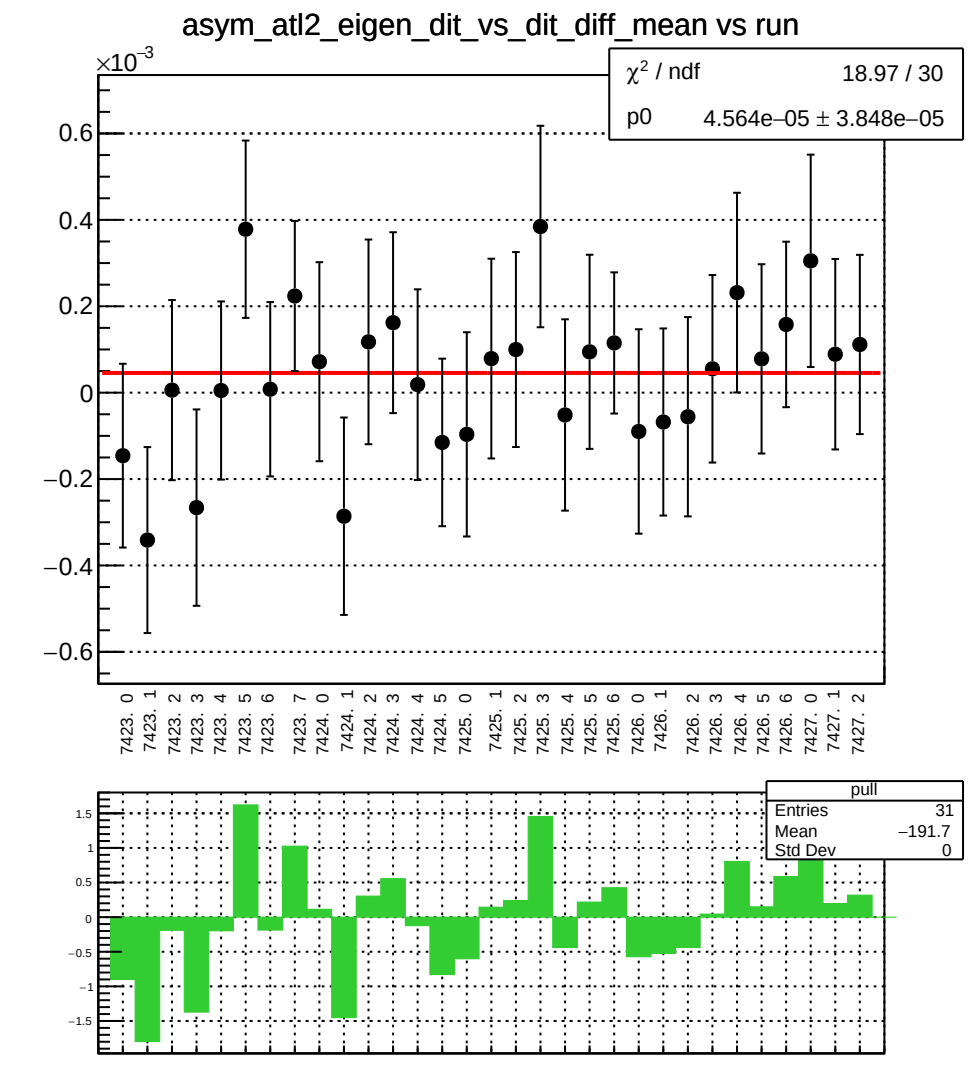

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.929e+05 / 30
p0 7.616e−11 ± 2.378e−13
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

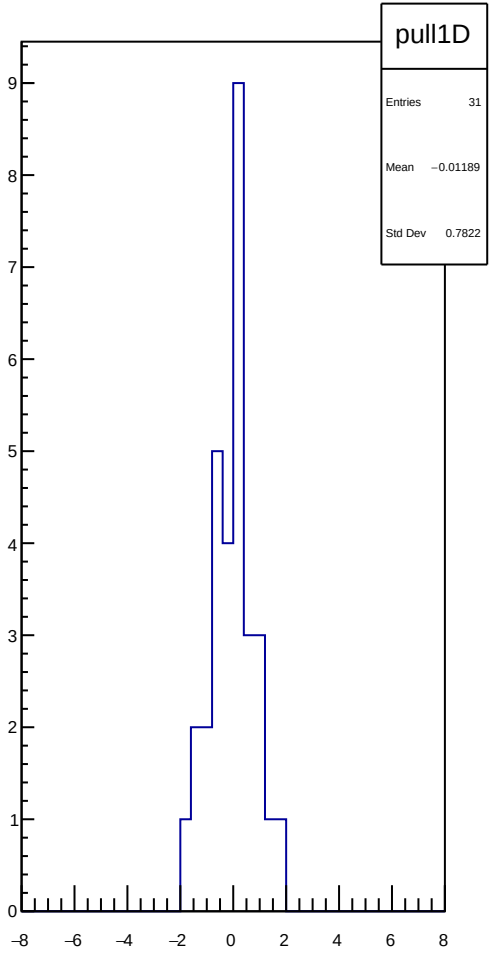

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 29.87 / 30
p0 0.4942 ± 1.868
40
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 273.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.01123
Std Dev 0.9815
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

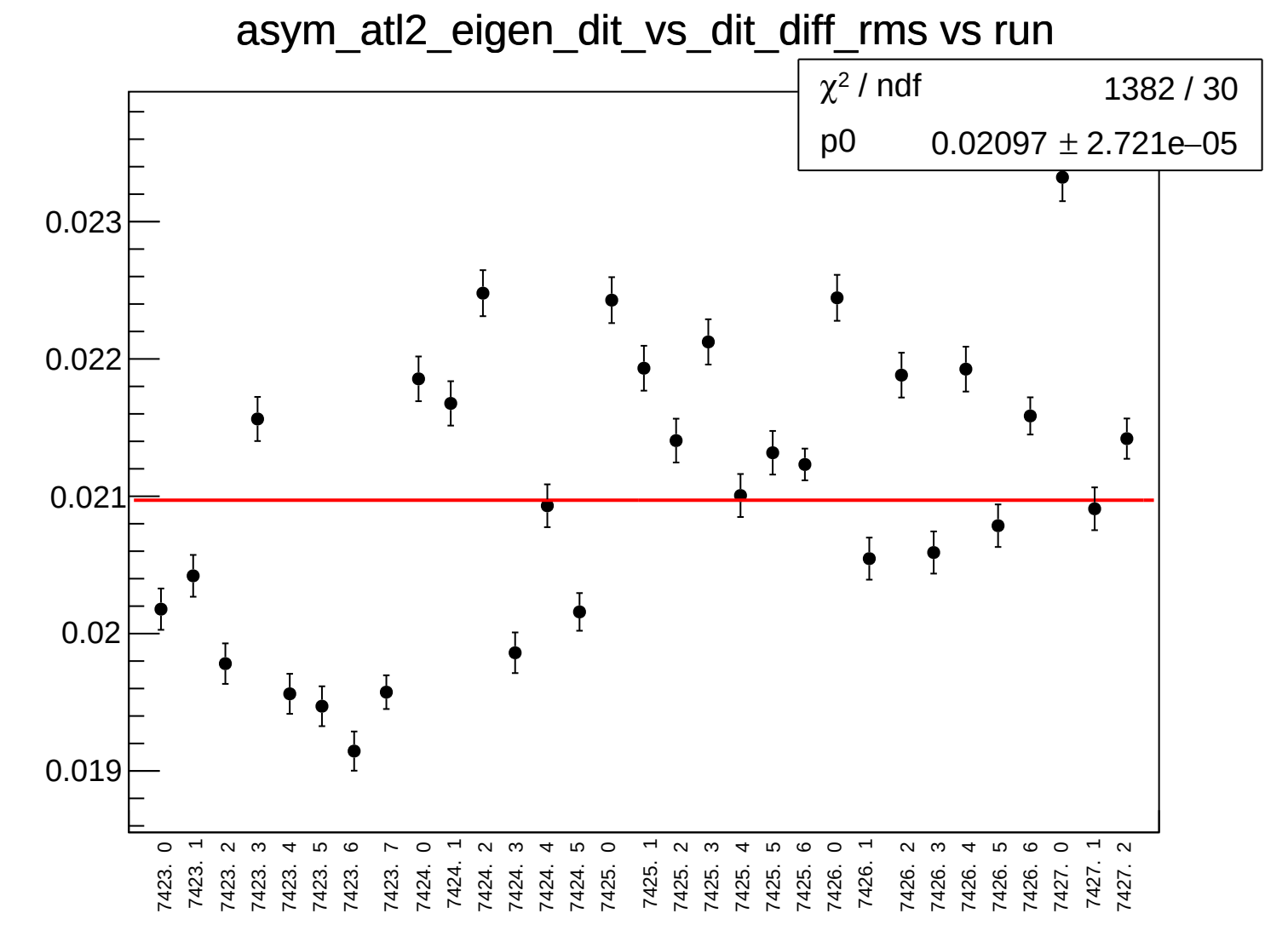

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 4947 / 30
p0 1015 ± 1.321
1400
1300
1200
1100
1000
900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

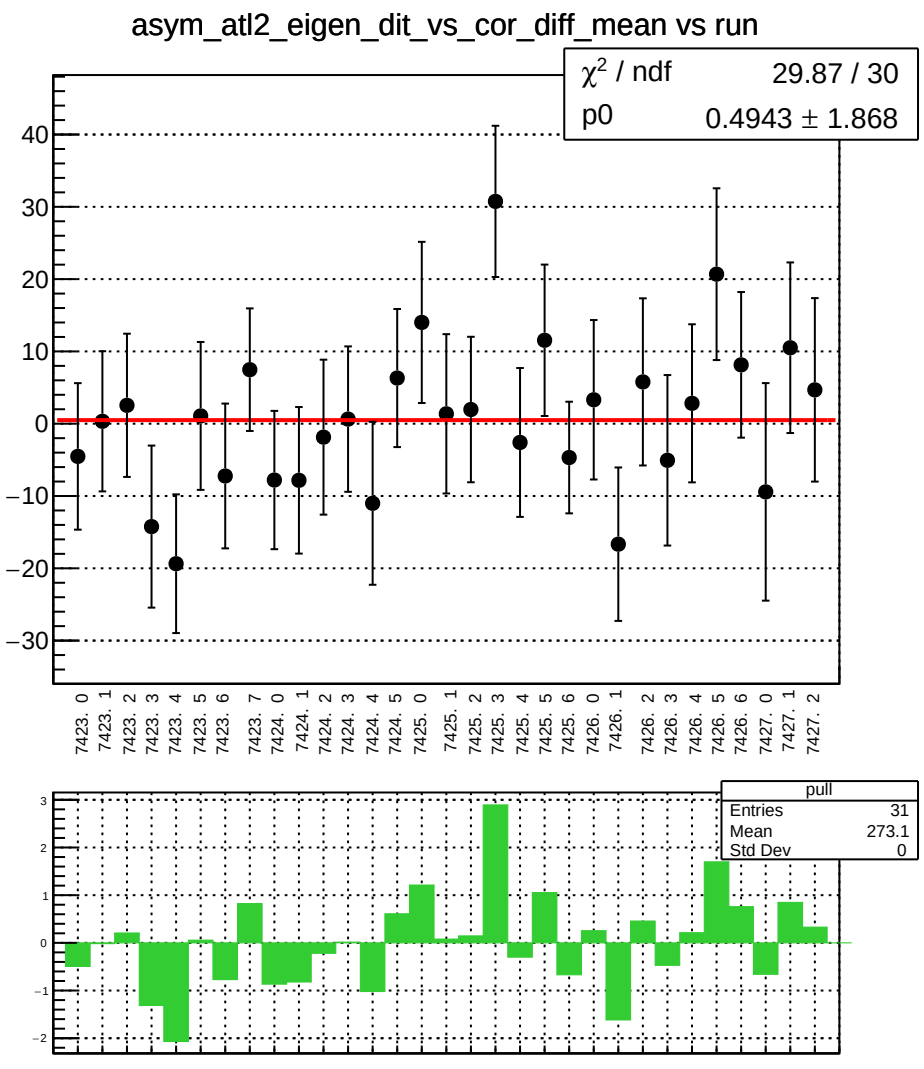

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.87 / 30
p0 0.4942 ± 1.868
40
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 273.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.01123
Std Dev 0.9815
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

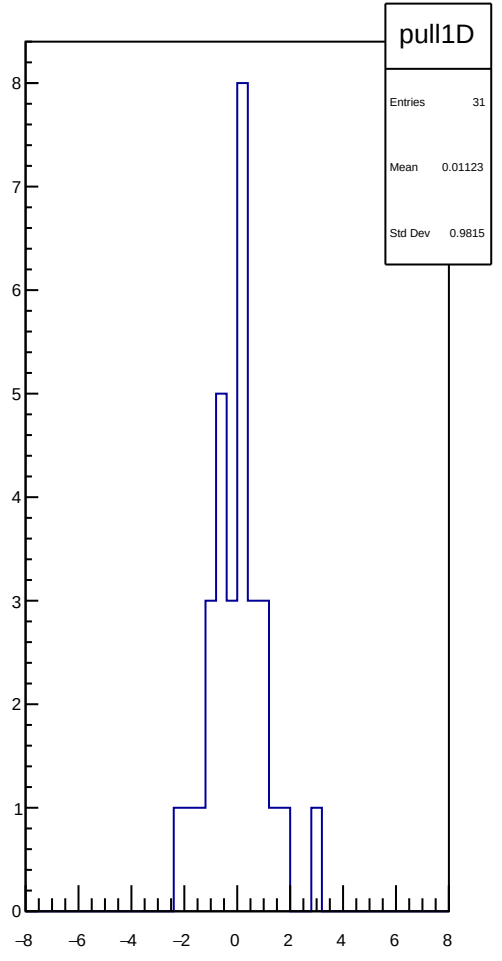

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4947 / 30
p0 1015 ± 1.321
1400
1300
1200
1100
1000
900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

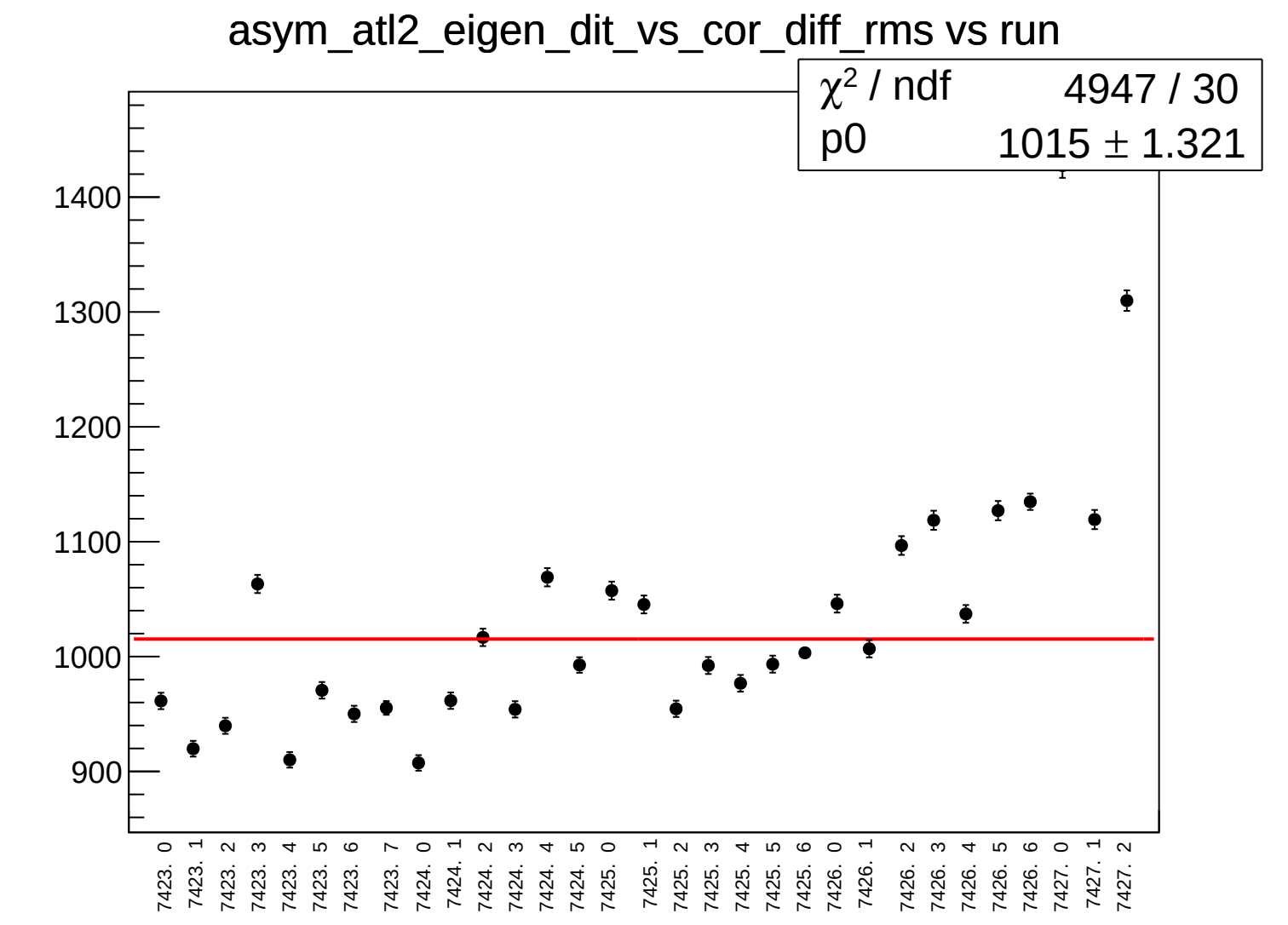

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.97 / 30
p0 4.564e−05 ± 3.848e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −191.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

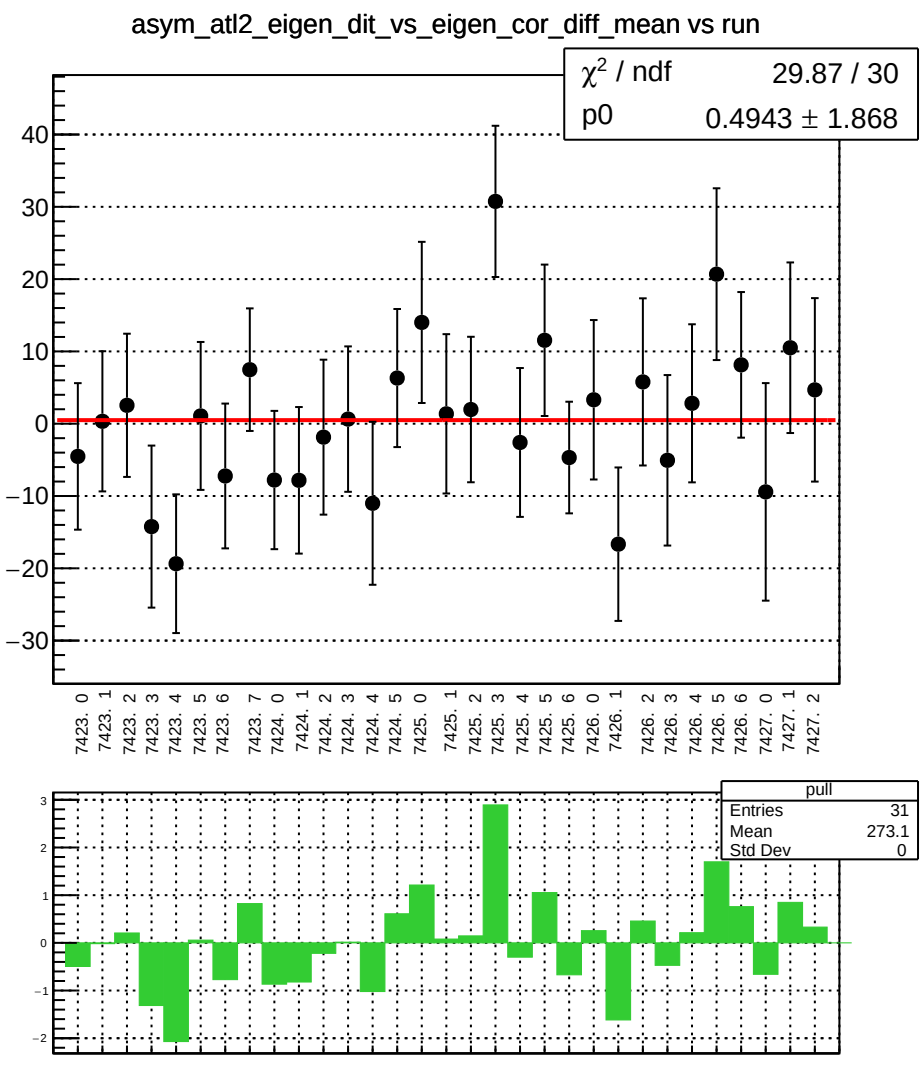

pull1D
Entries 31
Mean −0.01189
Std Dev 0.7822
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

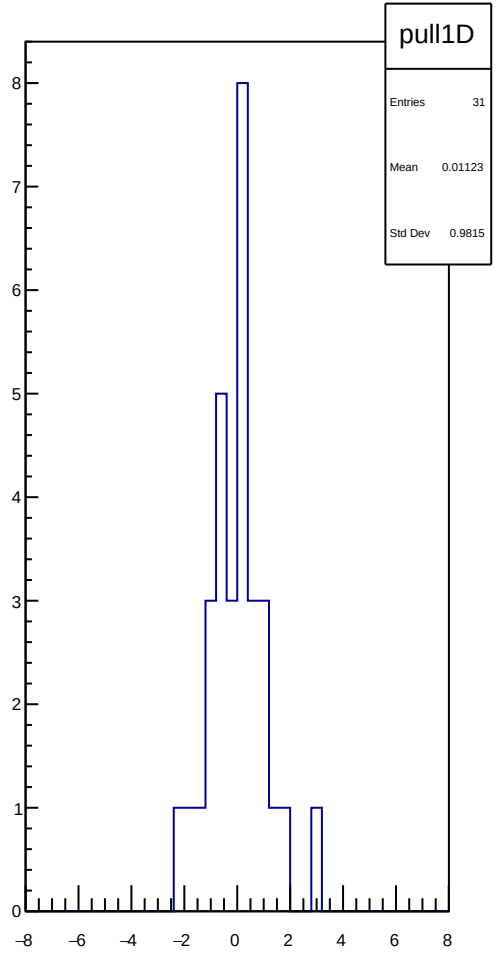

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1382 / 30
p0 0.02097 ± 2.721e–05
0.023
0.022
0.021
0.02
0.019
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

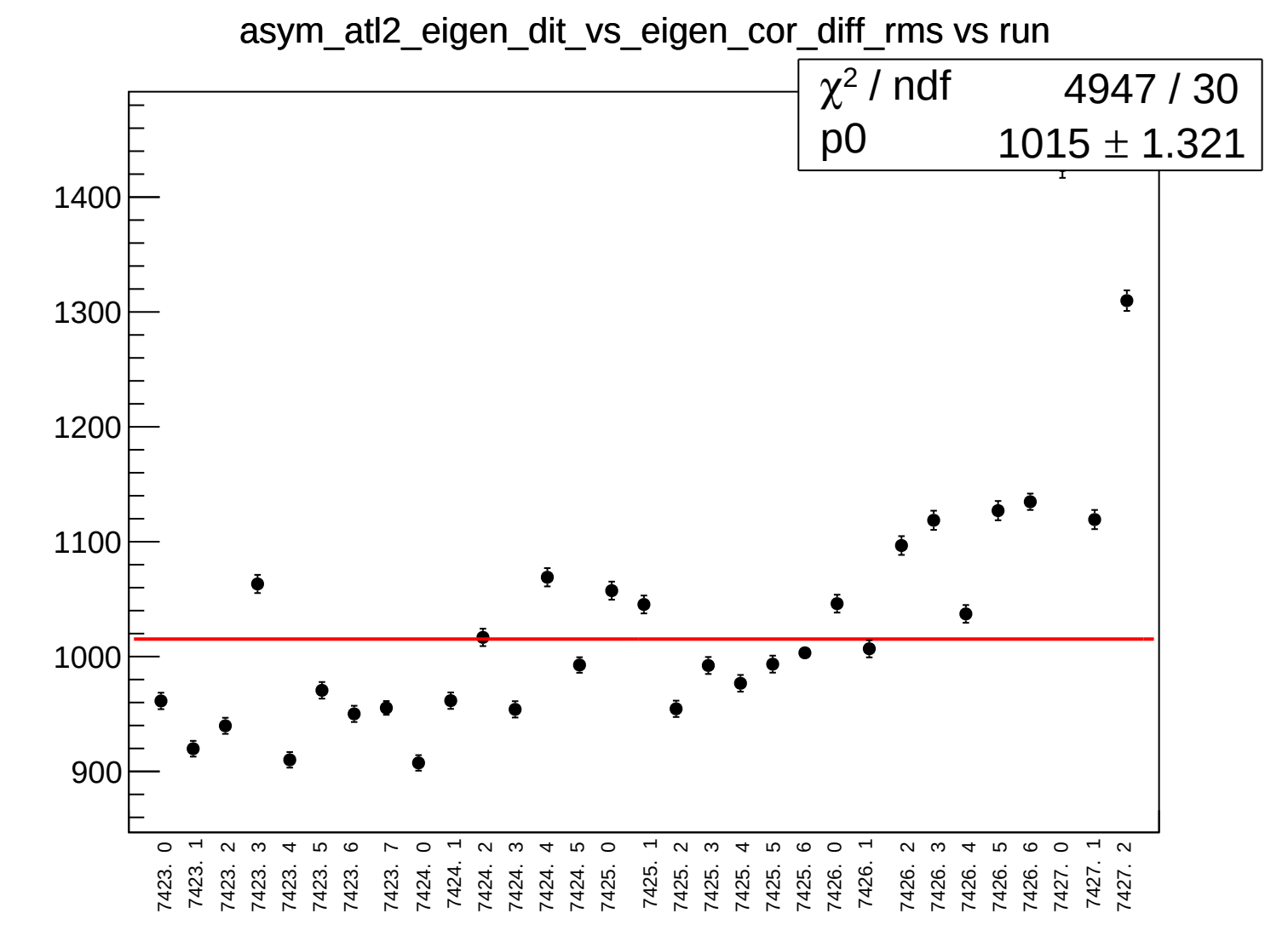

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.87 / 30
p0 0.4943 ± 1.868
40
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 273.1
Std Dev 0
3
2
1
0
−1
−2

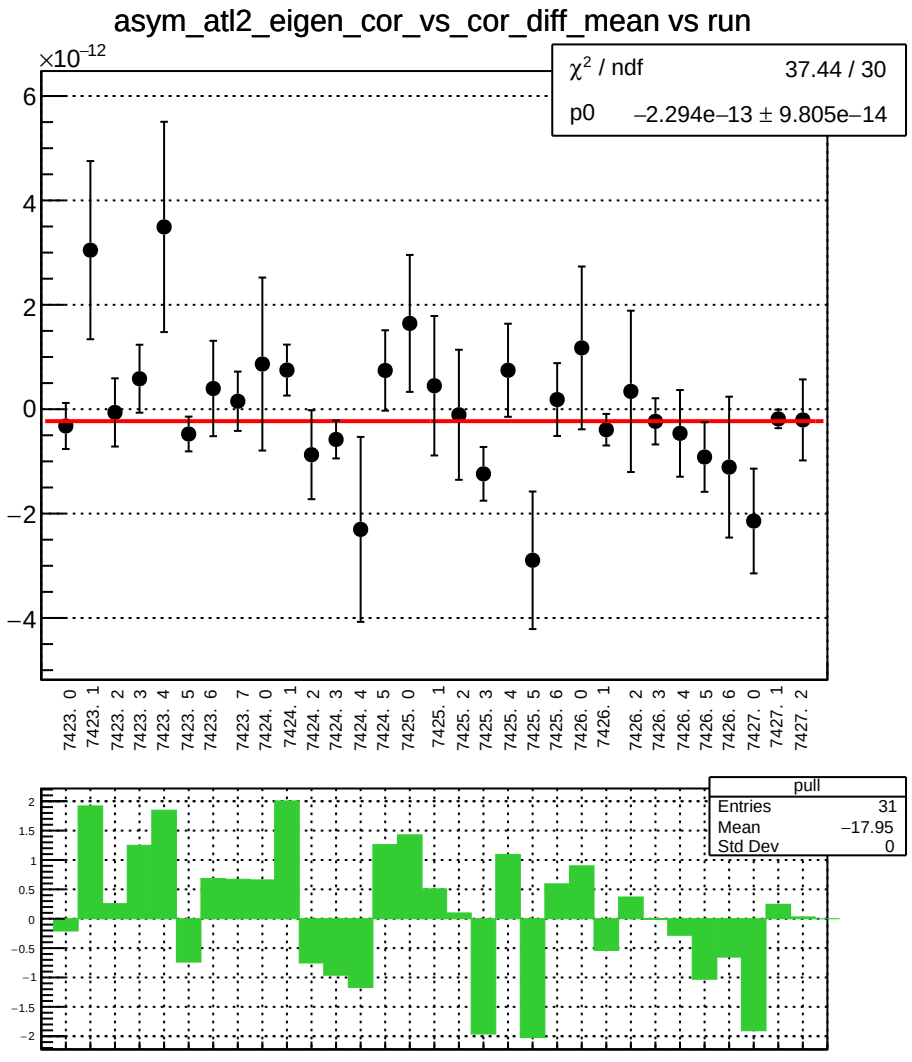

pull1D
Entries 31
Mean 0.01123
Std Dev 0.9815
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

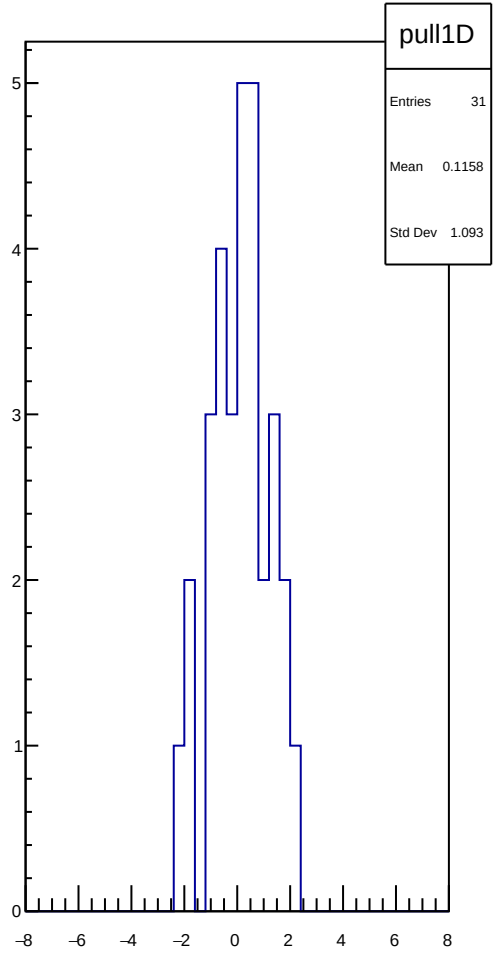

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4947 / 30
p0 1015 ± 1.321
1400
1300
1200
1100
1000
900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

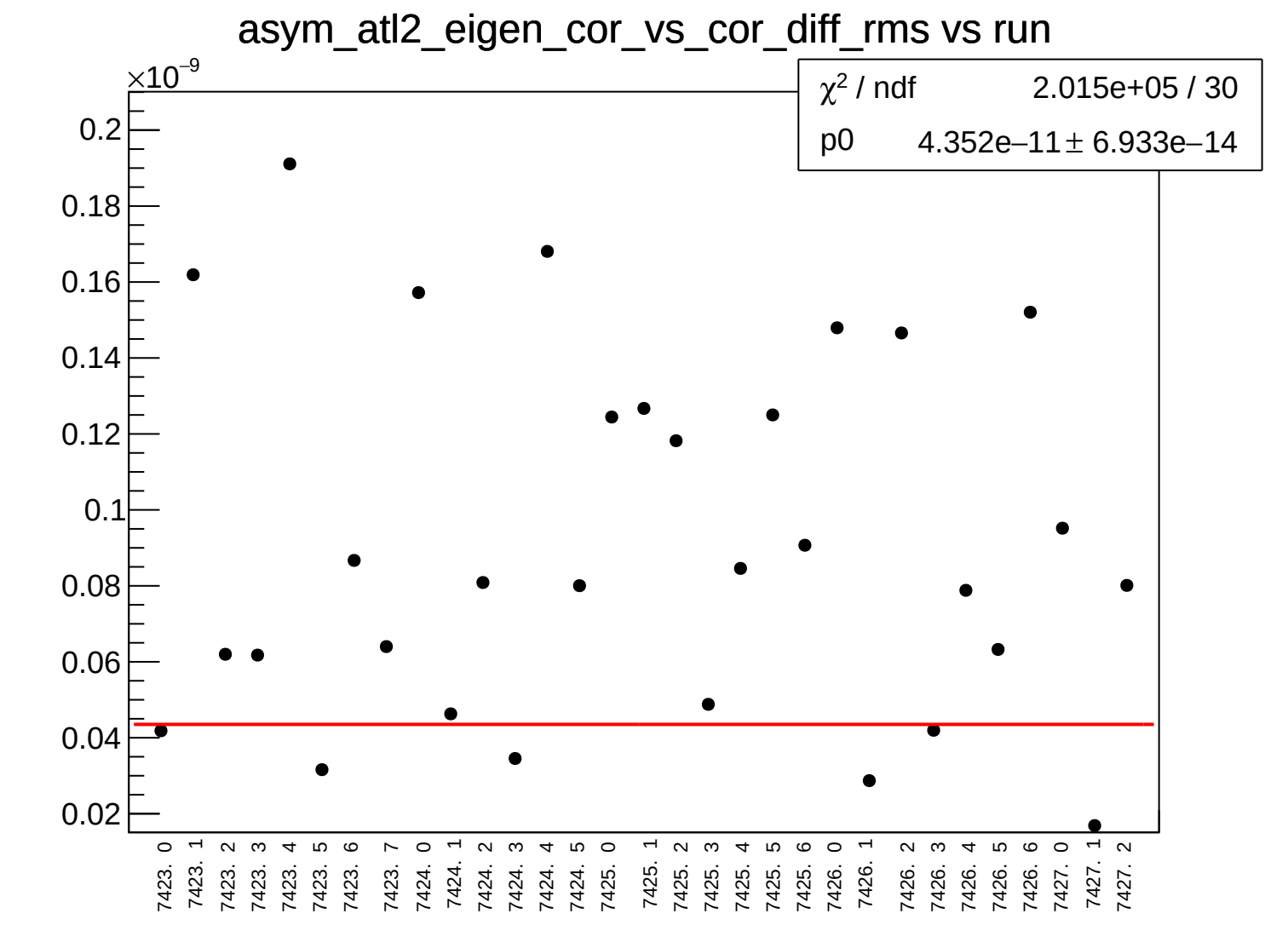

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.87 / 30
p0 0.4943 ± 1.868
40
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 273.1
Std Dev 0
3
2
1
0
−1
−2

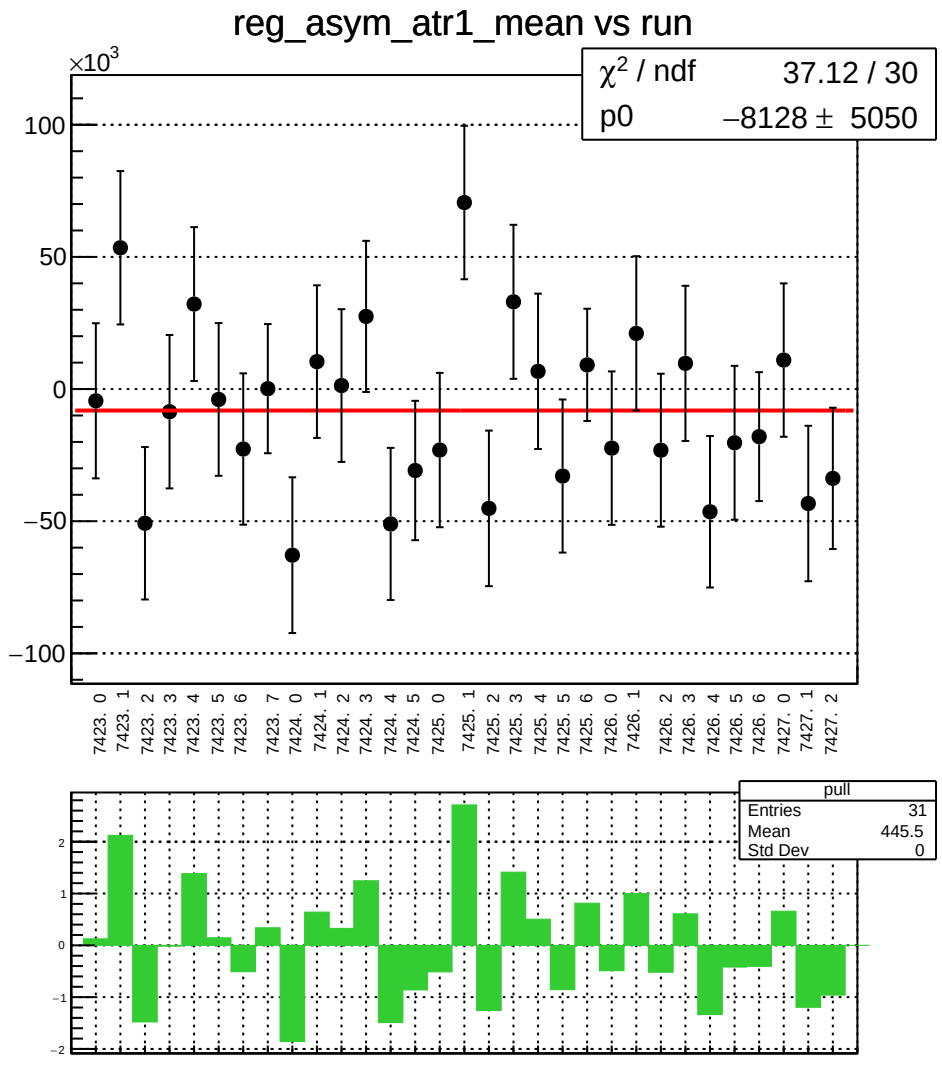

pull1D
Entries 31
Mean 0.01123
Std Dev 0.9815
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

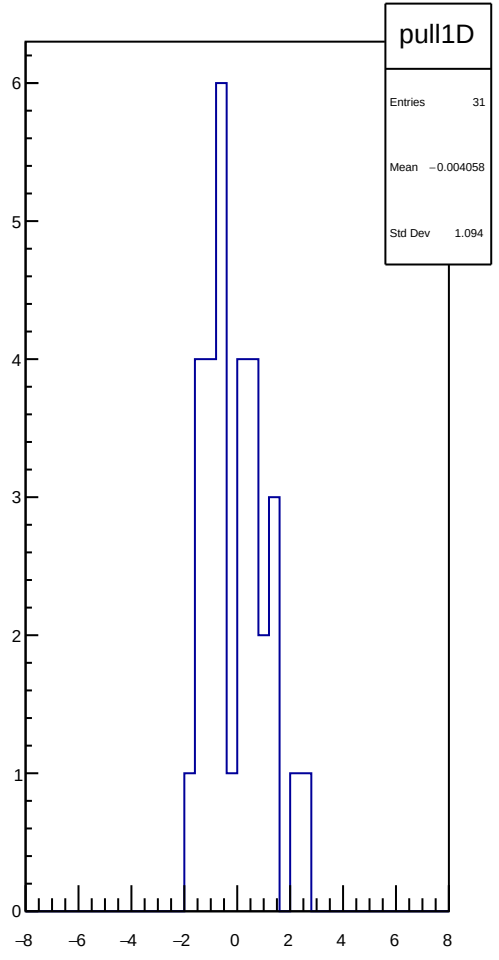

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4947 / 30
p0 1015 ± 1.321
1400
1300
1200
1100
1000
900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

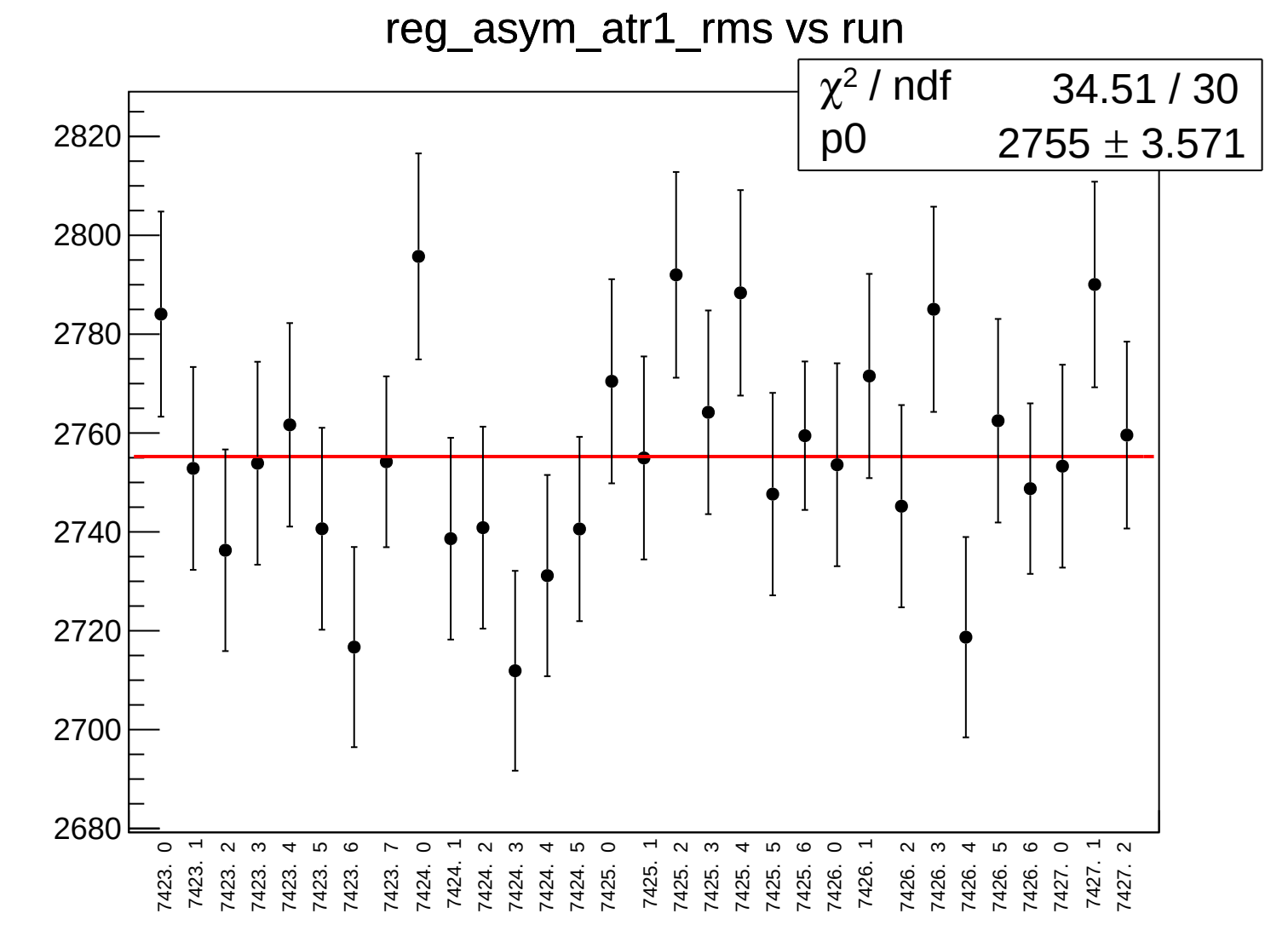

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 37.44 / 30
p0 −2.294e−13 ± 9.805e−14
6
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −17.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

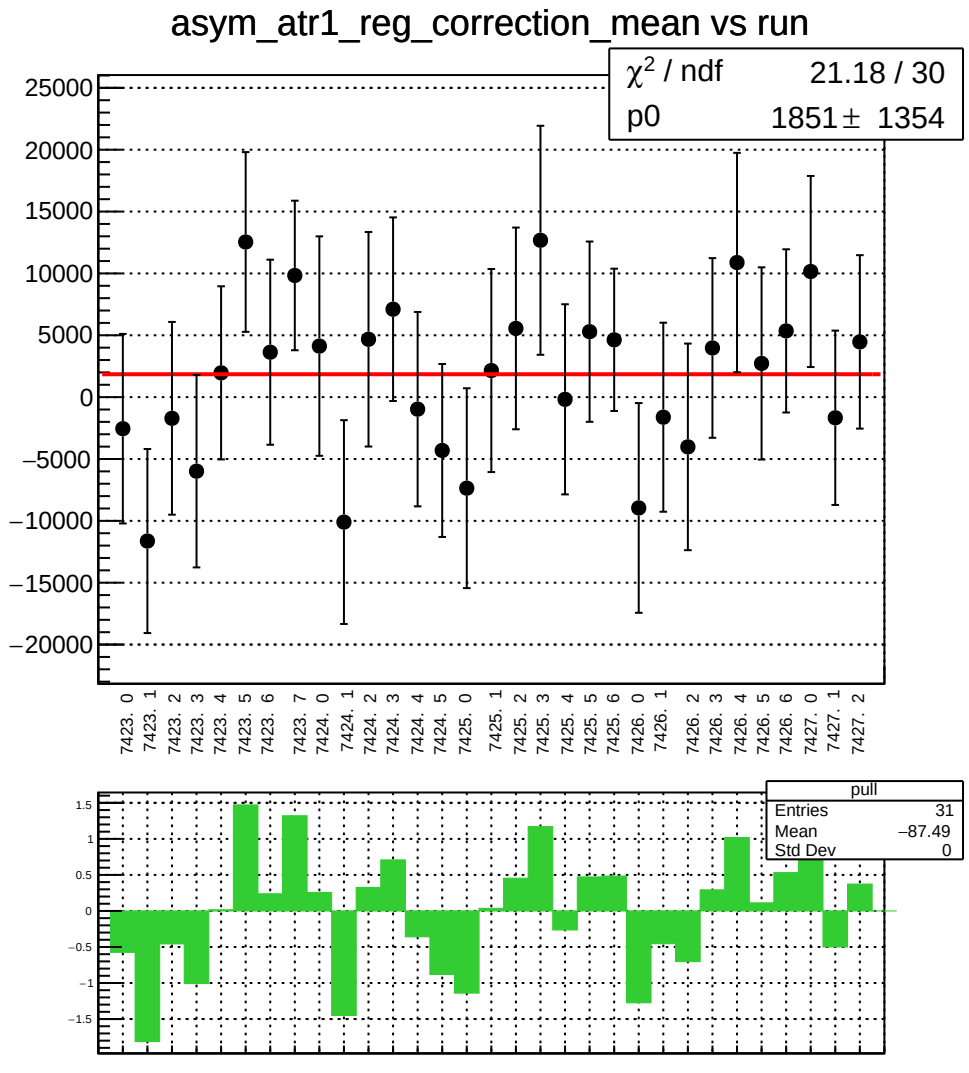

pull1D
Entries 31
Mean 0.1158
Std Dev 1.093
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

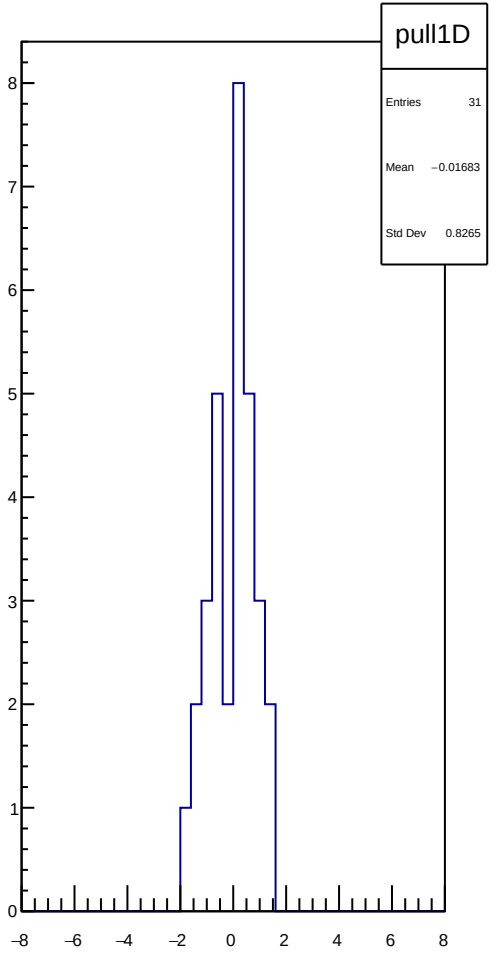

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.015e+05 / 30
p0 4.352e−11 ± 6.933e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

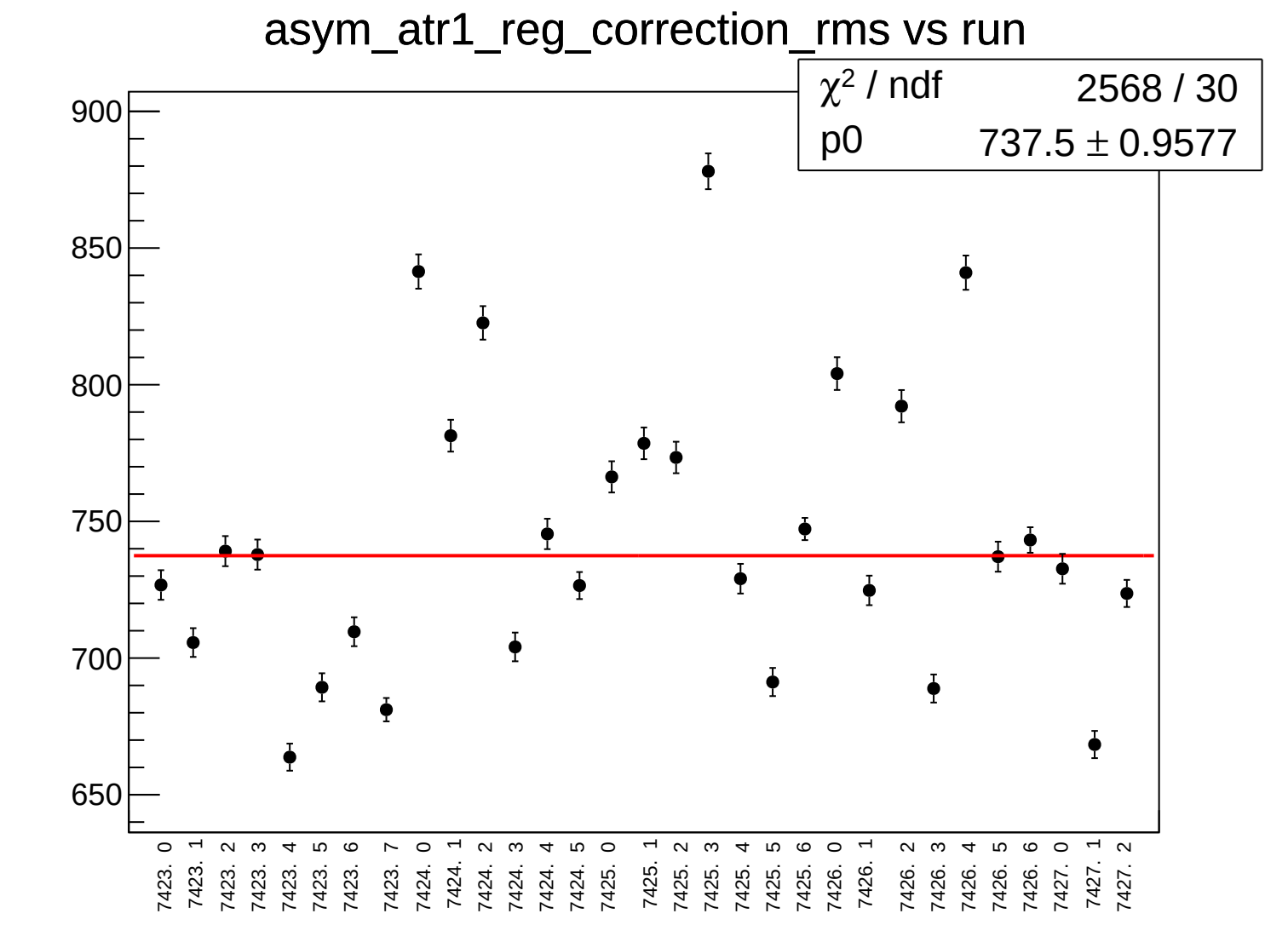

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 37.12 / 30
p0 −8128 ± 5050
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 445.5
Std Dev 0
2
1
0
−1
−2

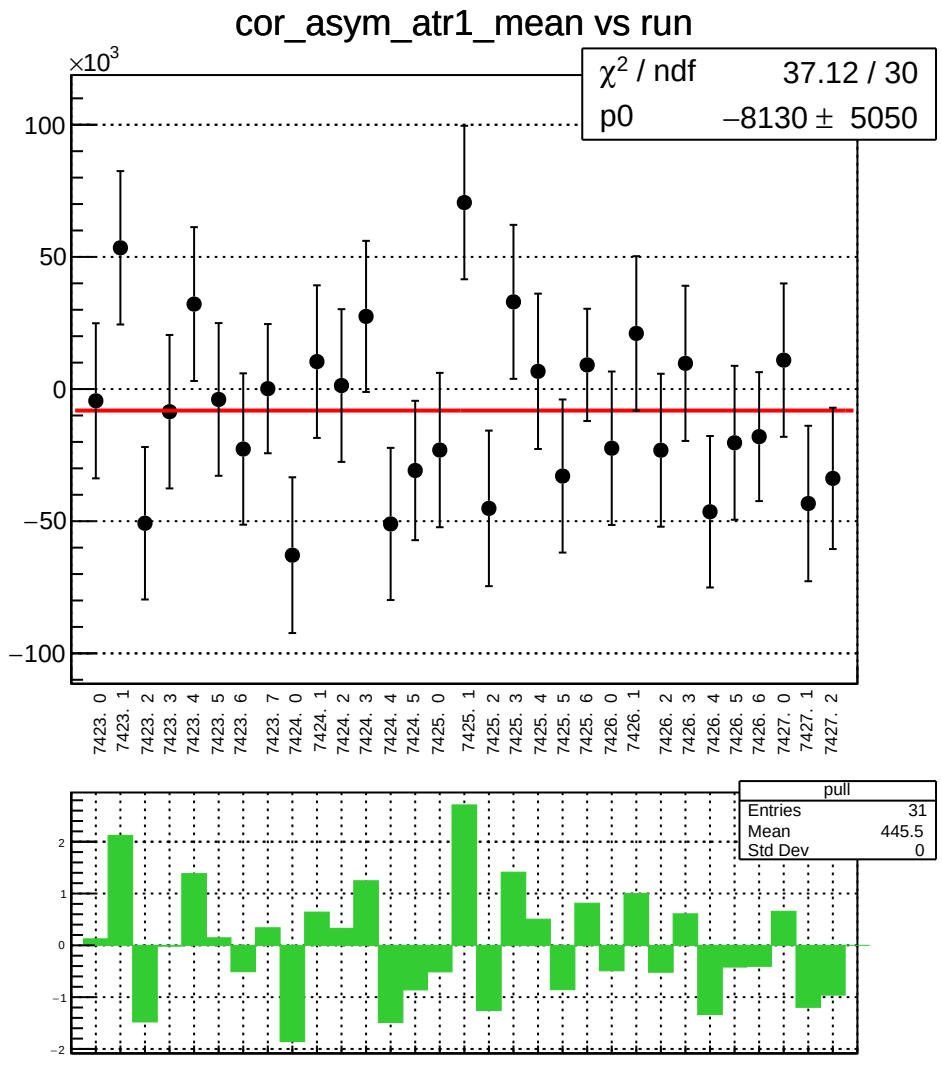

pull1D
Entries 31
Mean −0.004058
Std Dev 1.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

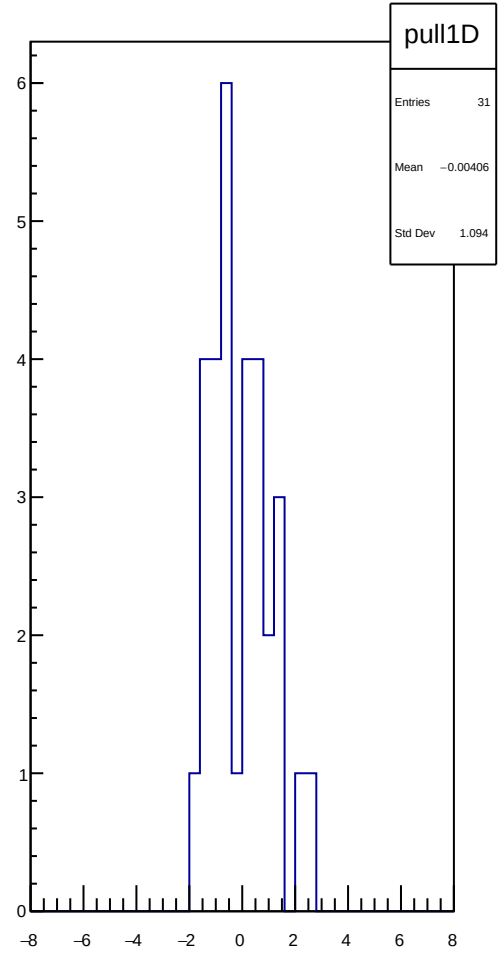

reg_asym_atr1_rms vs run
χ² / ndf 34.51 / 30
p0 2755 ± 3.571
2820
2800
2780
2760
2740
2720
2700
2680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

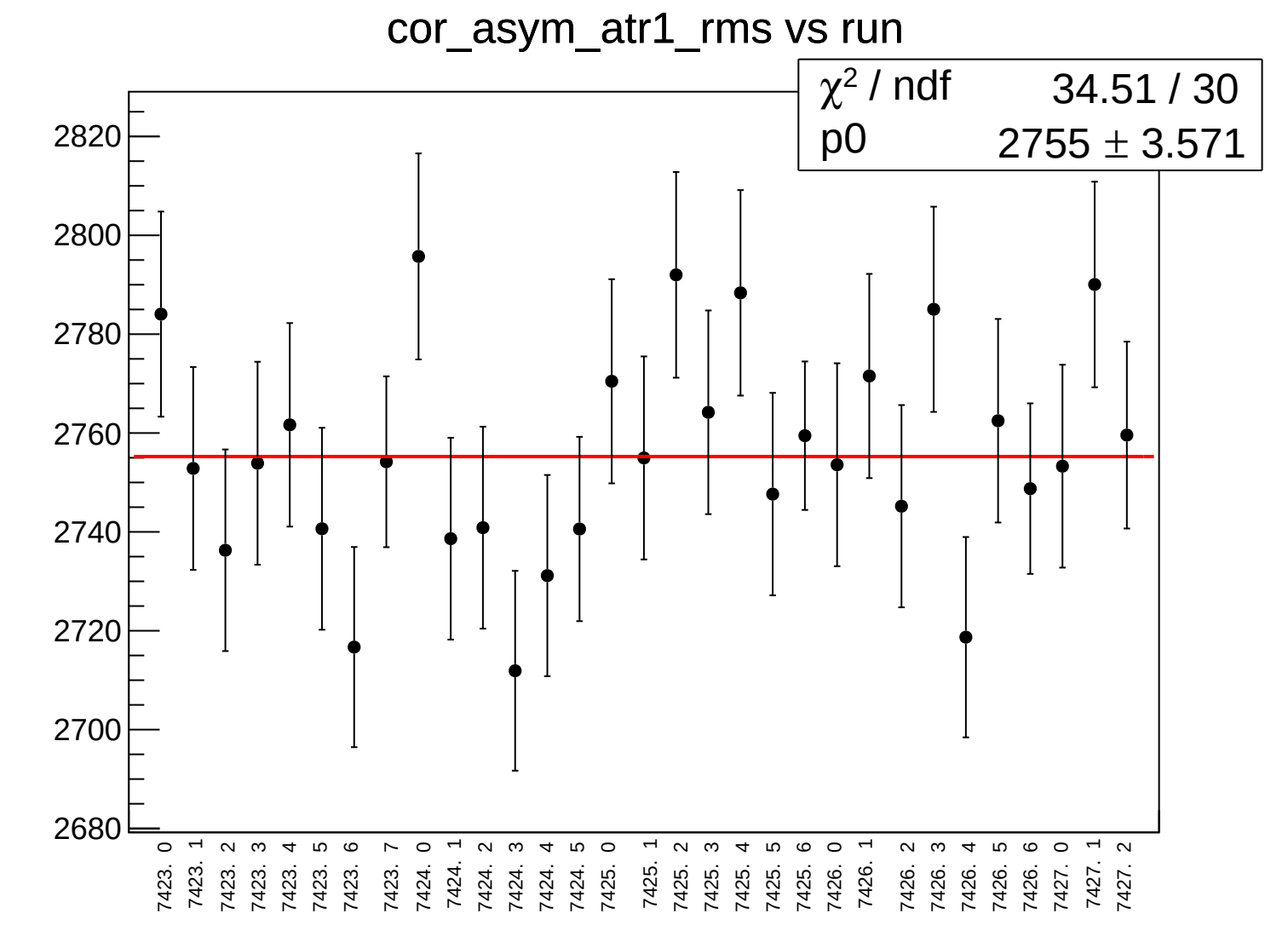

asym_atr1_reg_correction_mean vs run
χ² / ndf 21.18 / 30
p0 1851 ± 1354
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −87.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

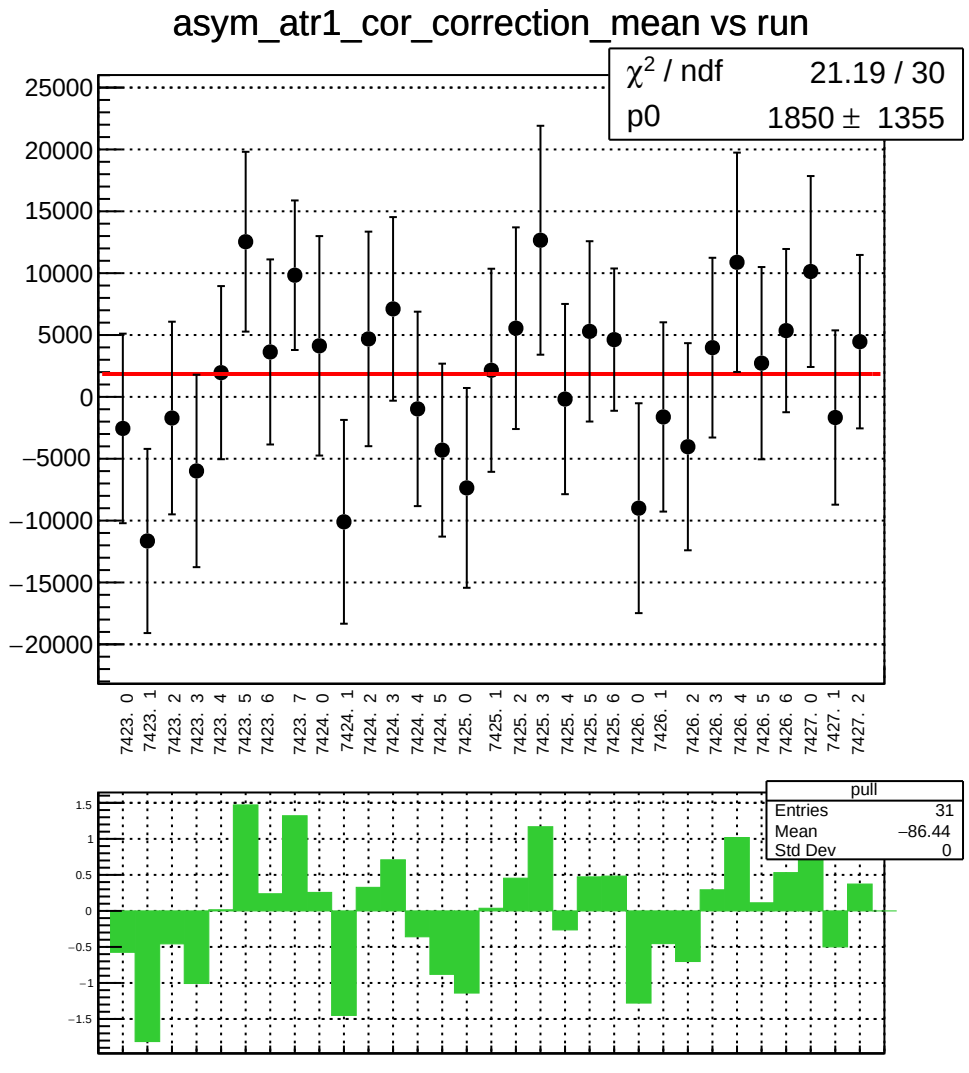

pull1D
Entries 31
Mean −0.01683
Std Dev 0.8265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

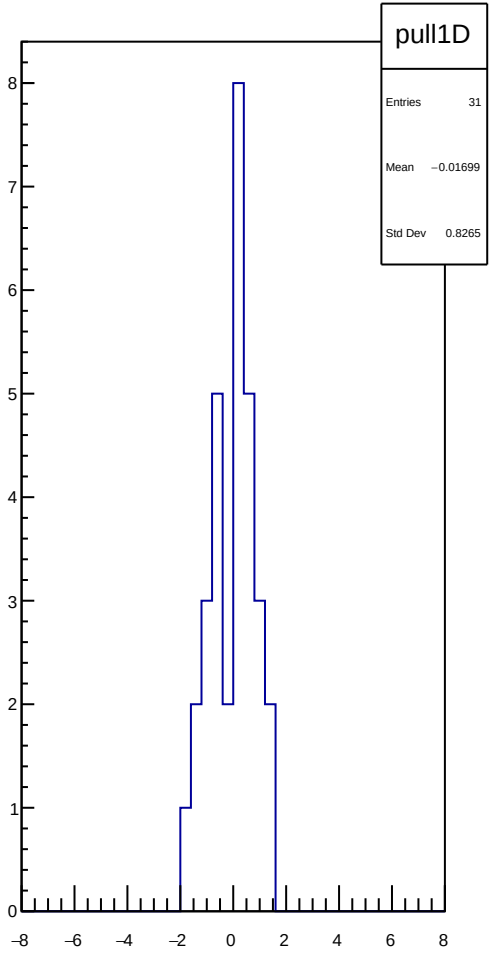

asym_atr1_reg_correction_rms vs run
χ² / ndf 2568 / 30
p0 737.5 ± 0.9577
900
850
800
750
700
650
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

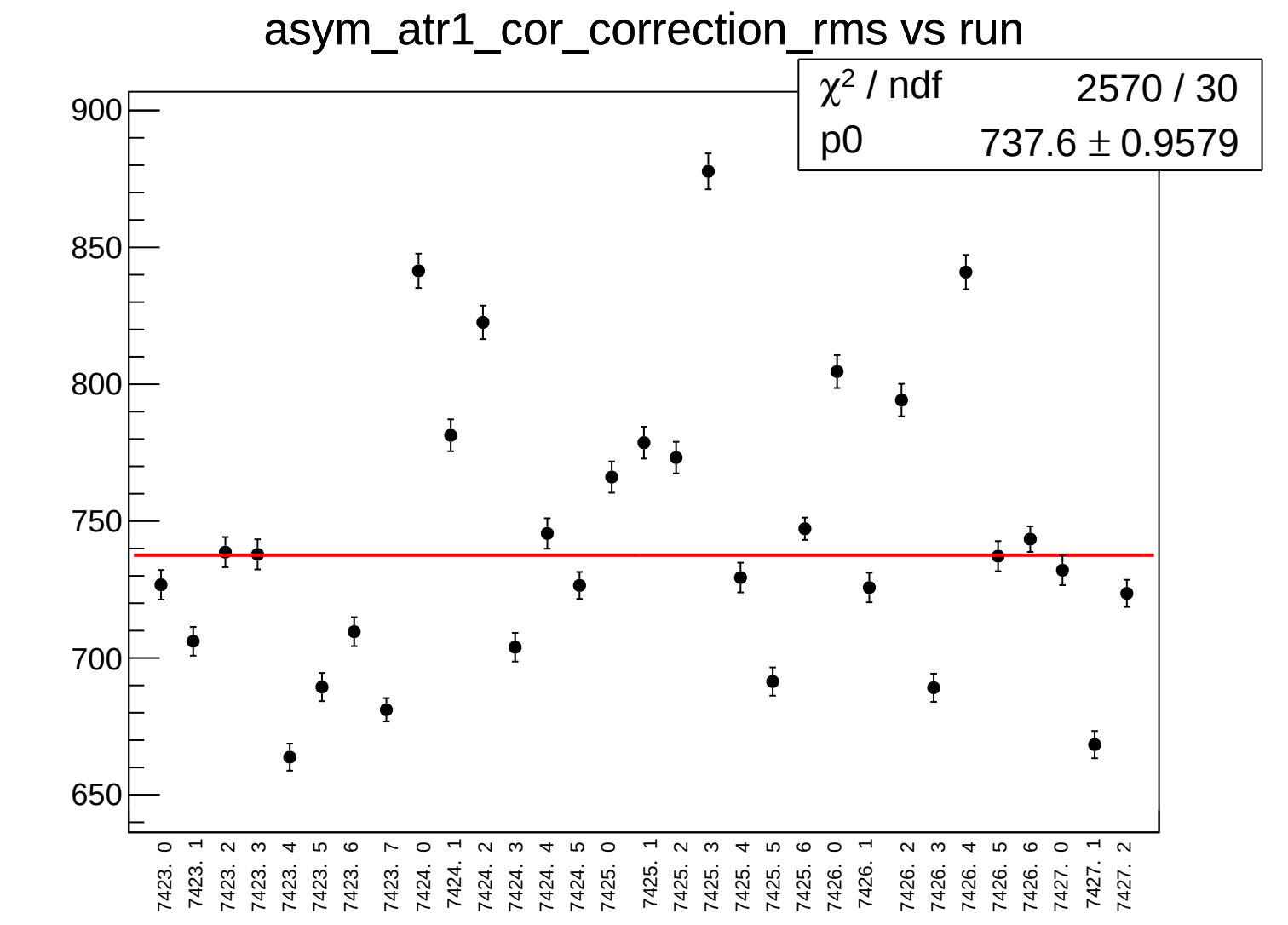

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 37.12 / 30
p0 −8130 ± 5050
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 445.5
Std Dev 0
2
1
0
−1
−2

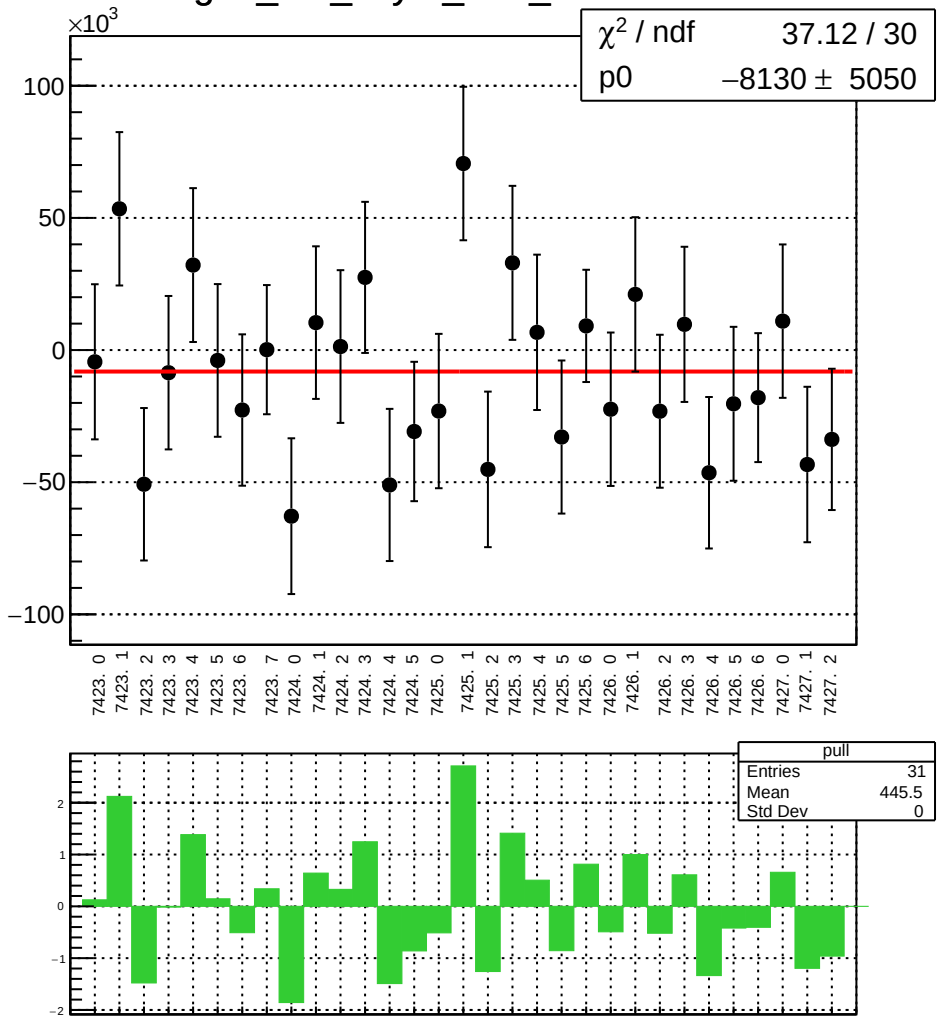

pull1D
Entries 31
Mean −0.00406
Std Dev 1.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

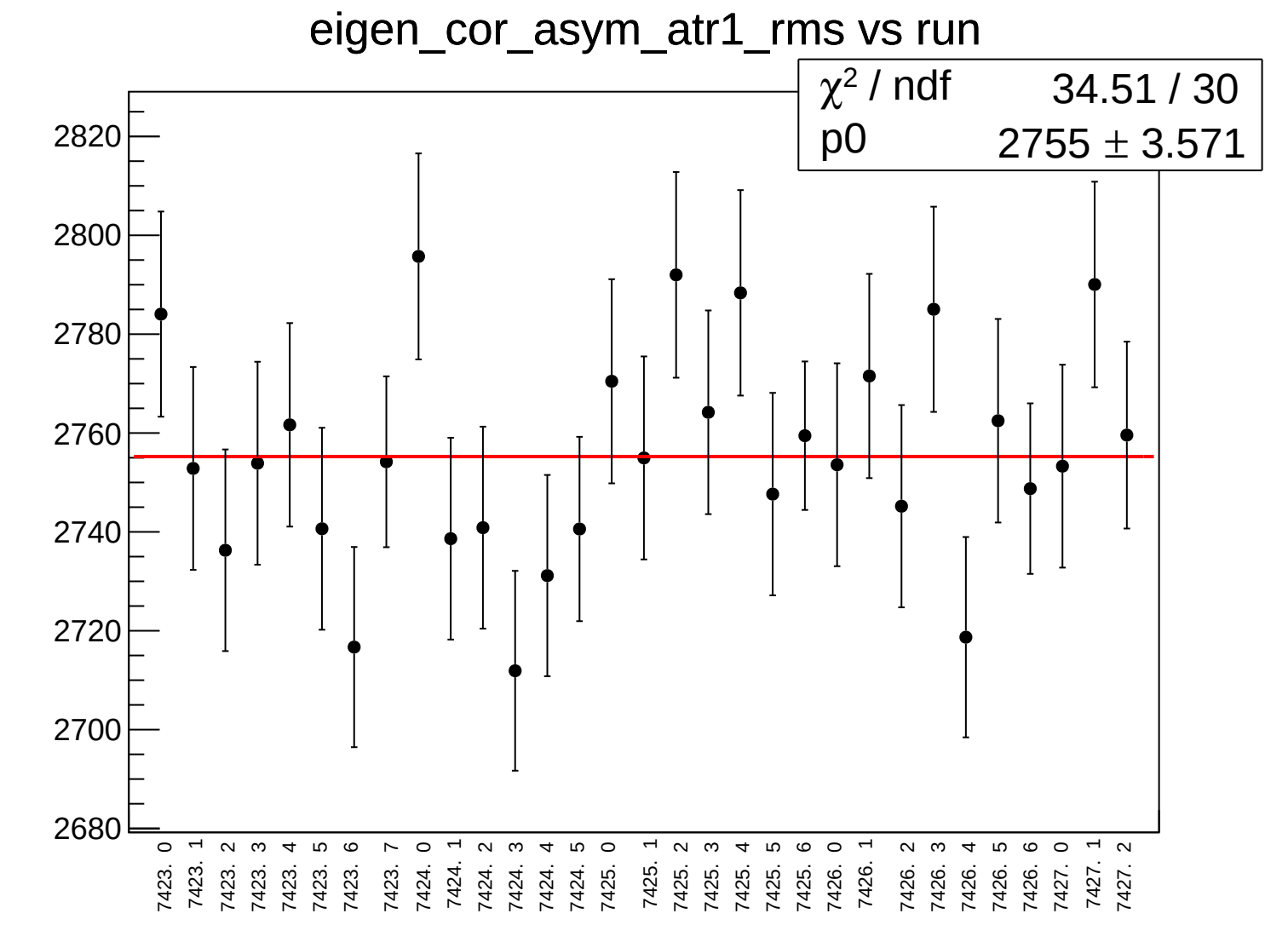

cor_asym_atr1_rms vs run
χ² / ndf 34.51 / 30
p0 2755 ± 3.571
2820
2800
2780
2760
2740
2720
2700
2680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

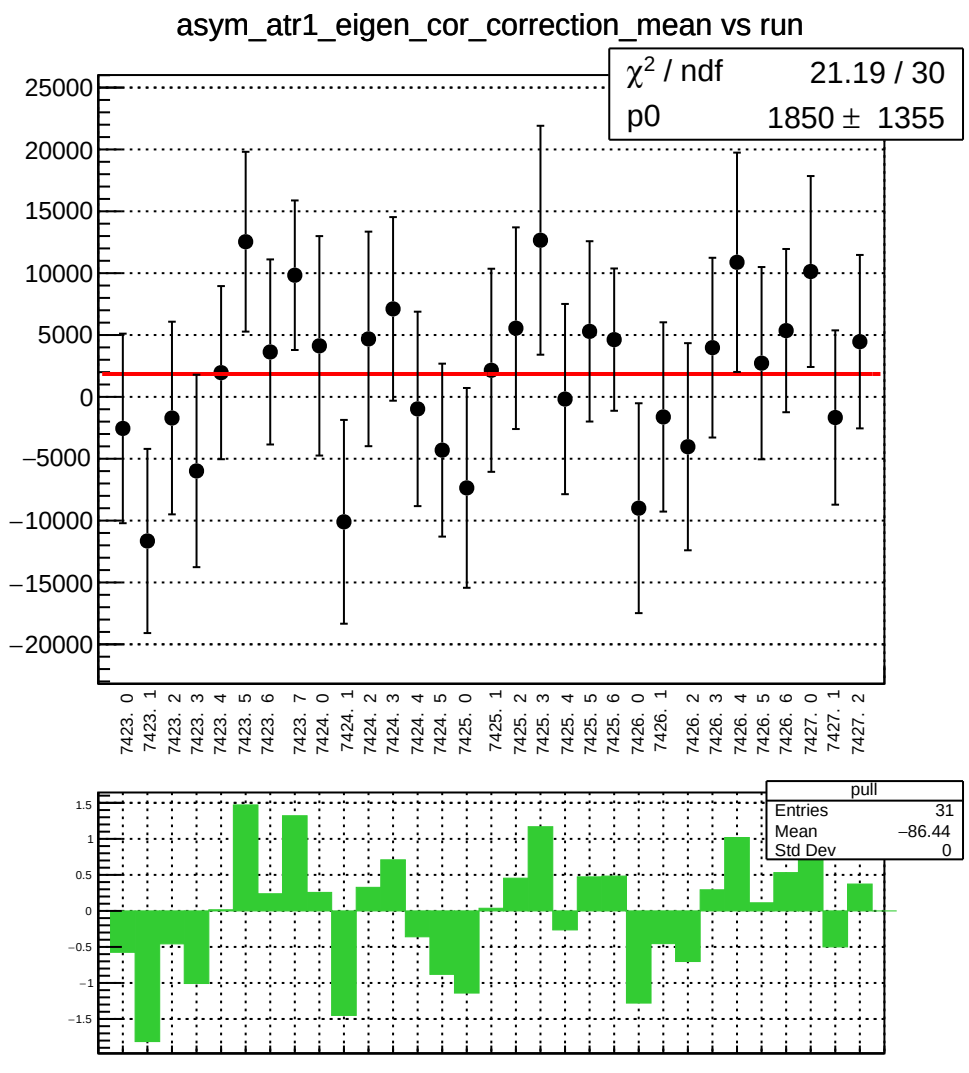

asym_atr1_cor_correction_mean vs run
χ² / ndf 21.19 / 30
p0 1850 ± 1355
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −86.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

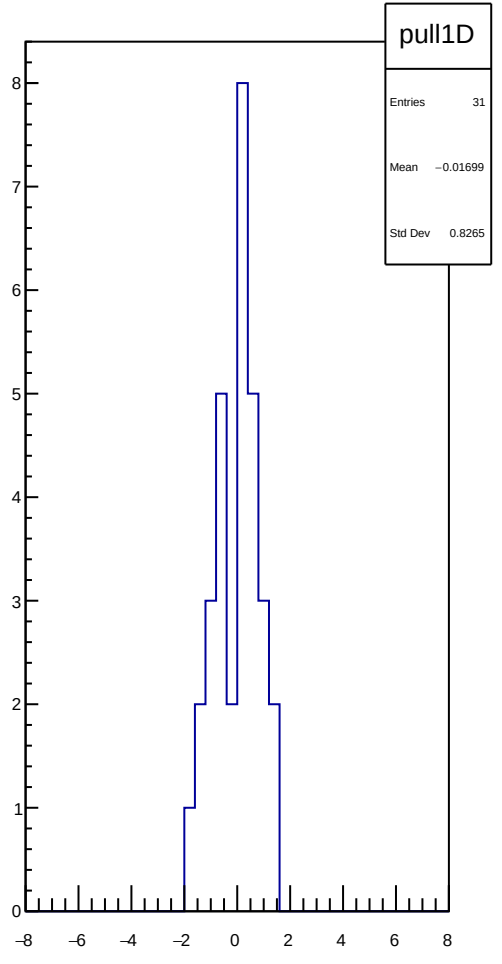

pull1D
Entries 31
Mean −0.01699
Std Dev 0.8265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

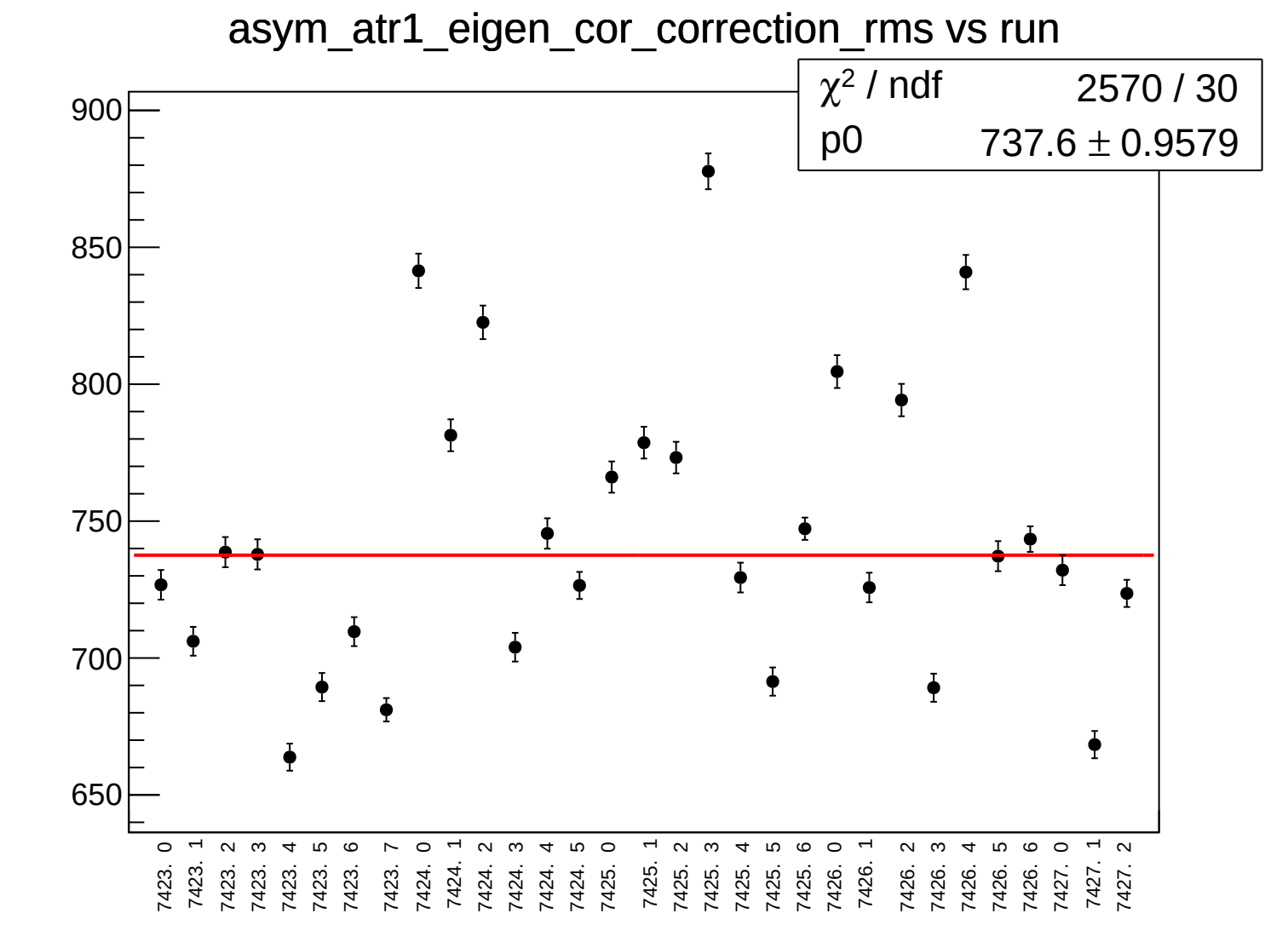

asym_atr1_cor_correction_rms vs run
χ² / ndf 2570 / 30
p0 737.6 ± 0.9579
900
850
800
750
700
650
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

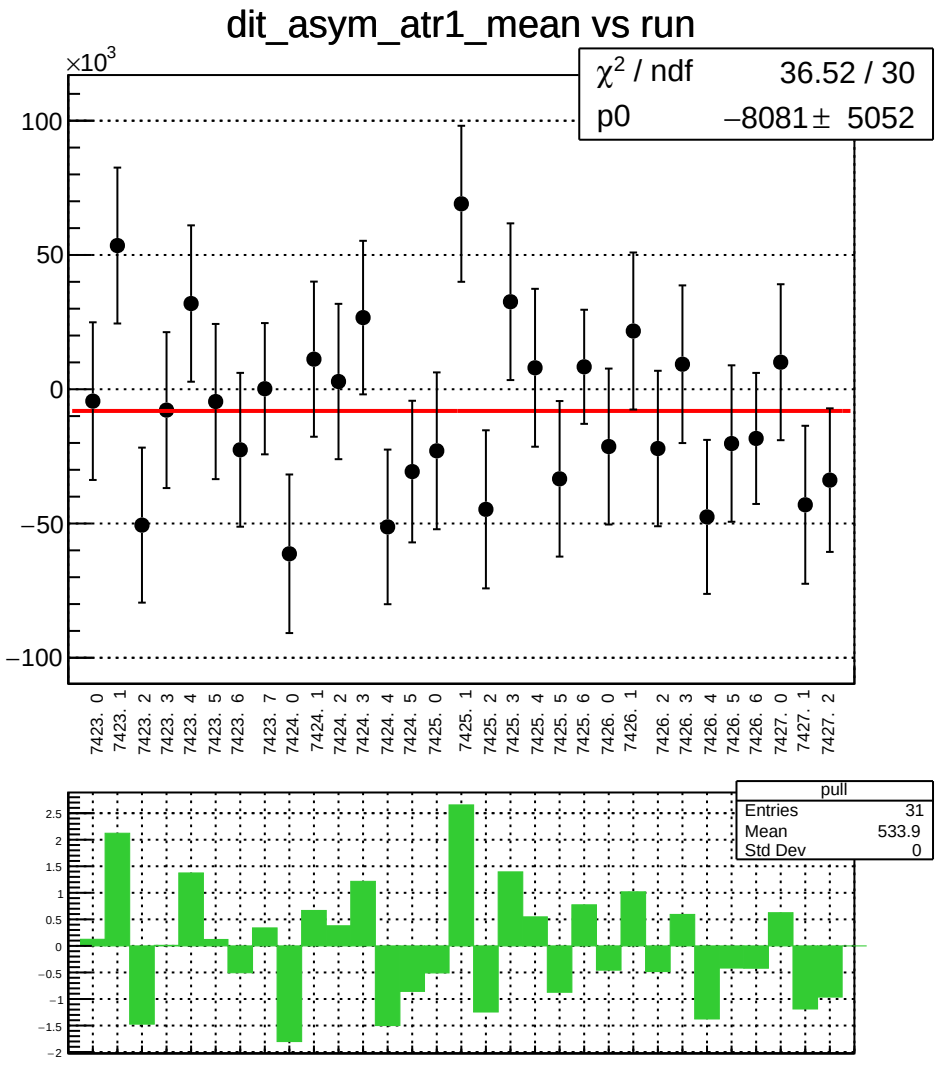

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 37.12 / 30
p0 −8130 ± 5050
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 445.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.00406
Std Dev 1.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

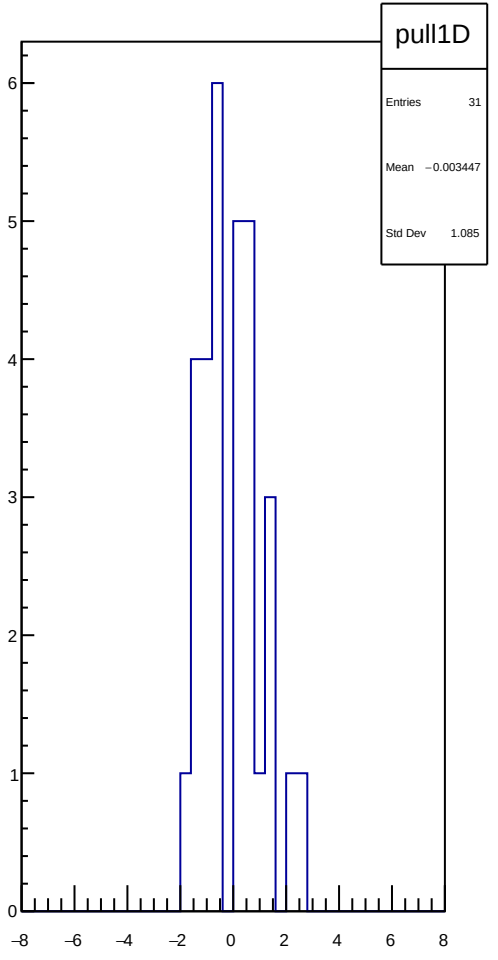

eigen_cor_asym_atr1_rms vs run
χ² / ndf 34.51 / 30
p0 2755 ± 3.571
2820
2800
2780
2760
2740
2720
2700
2680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

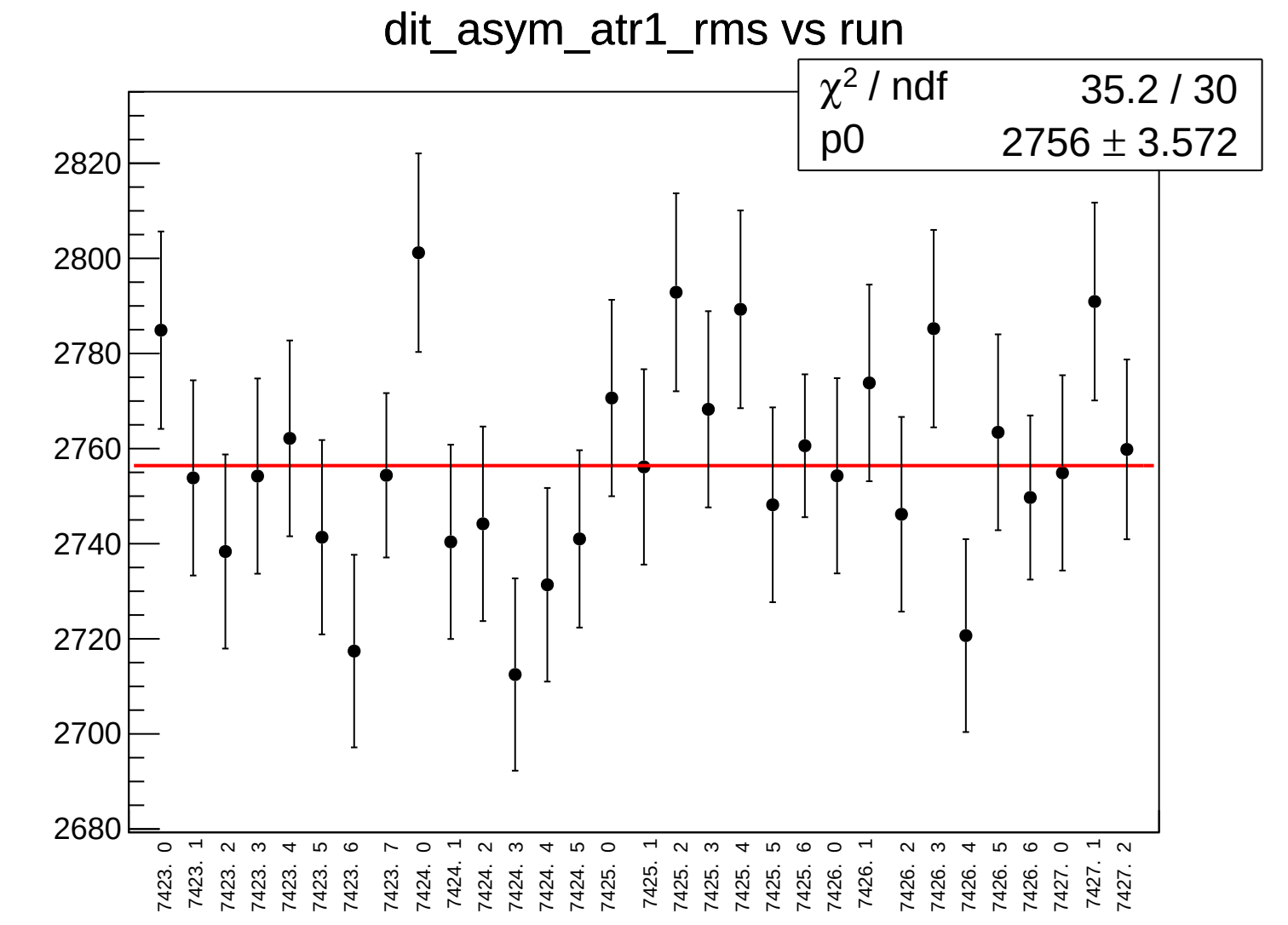

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 21.19 / 30
p0 1850 ± 1355
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −86.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

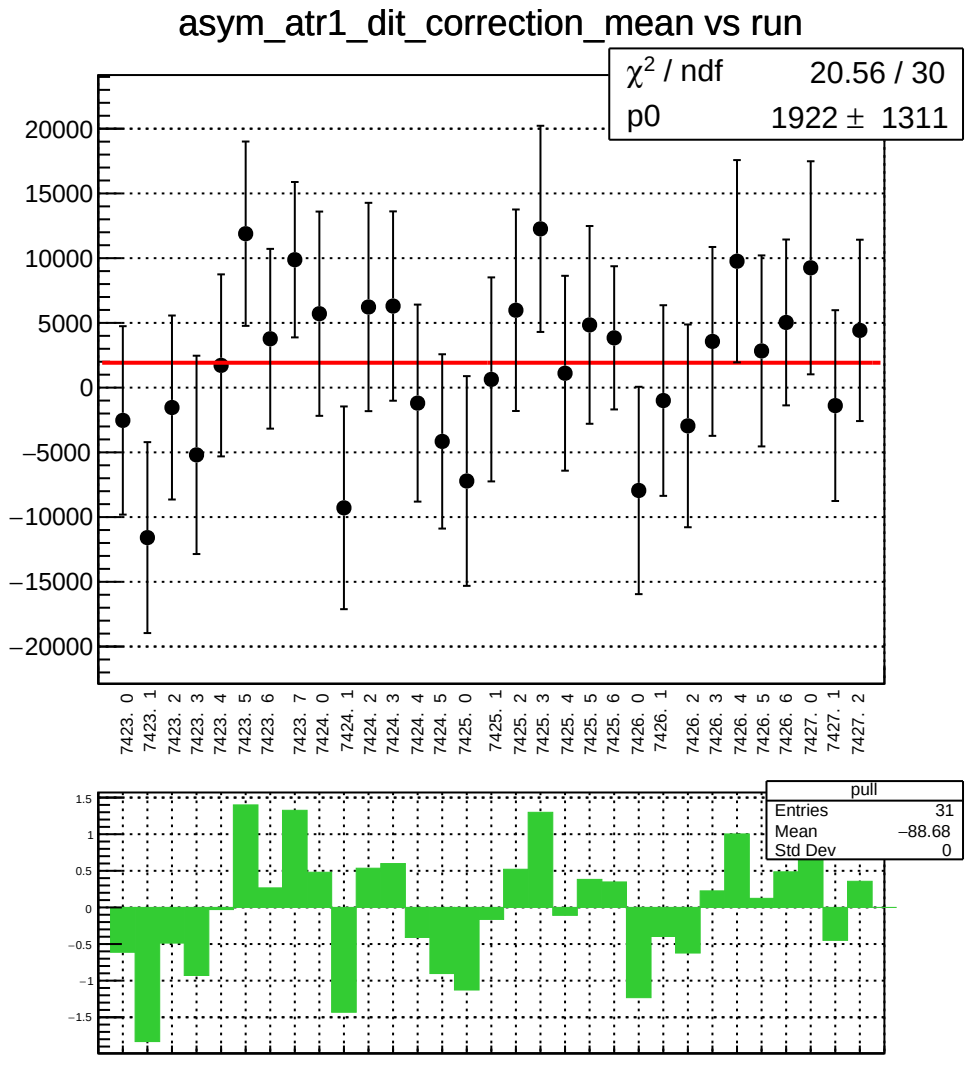

pull1D
Entries 31
Mean −0.01699
Std Dev 0.8265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

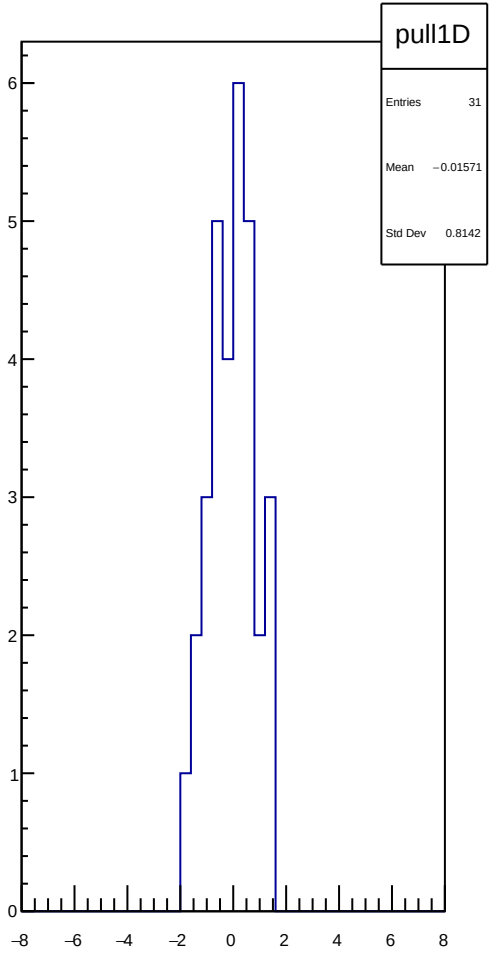

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2570 / 30
p0 737.6 ± 0.9579
900
850
800
750
700
650
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

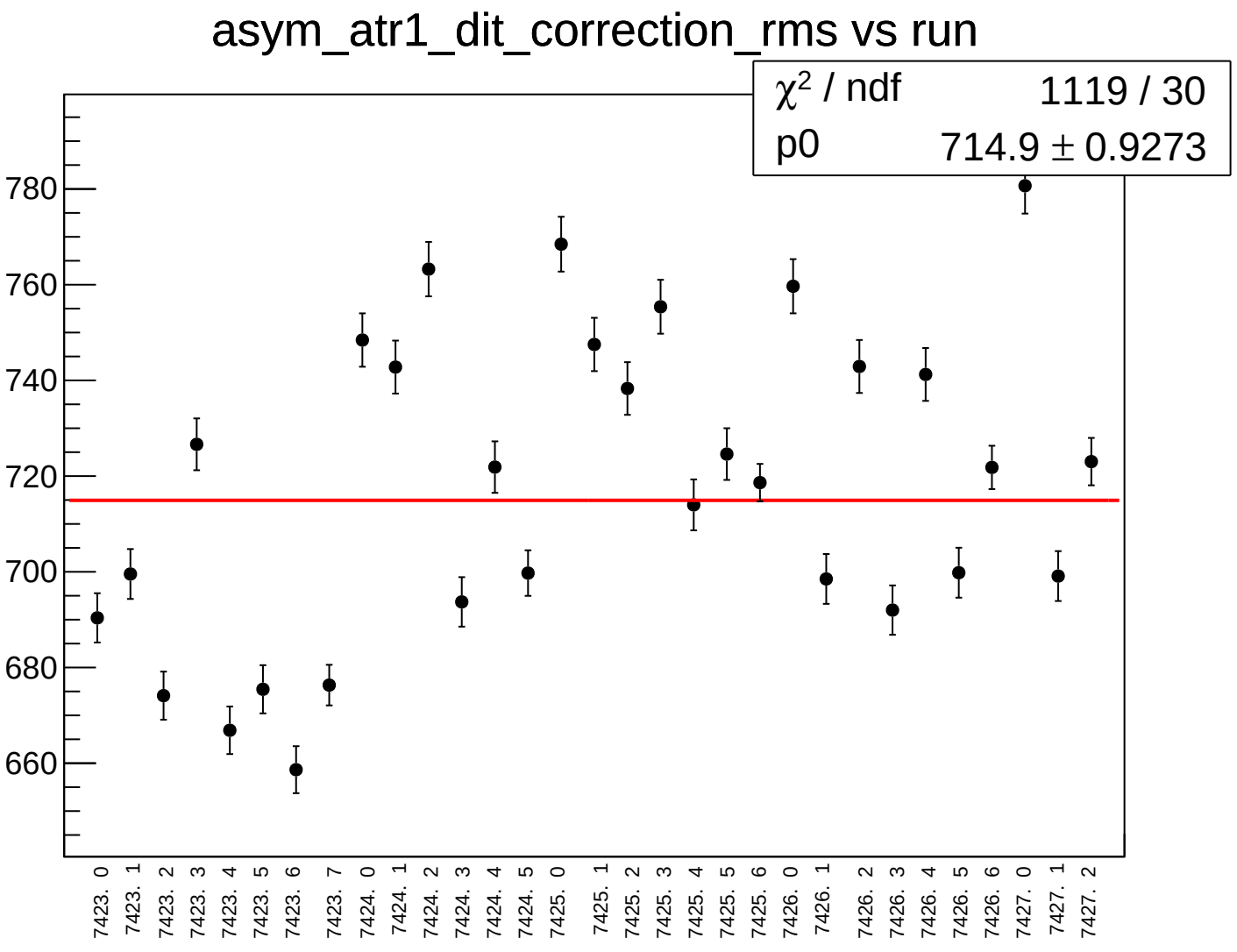

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 36.52 / 30
p0 −8081 ± 5052
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 533.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

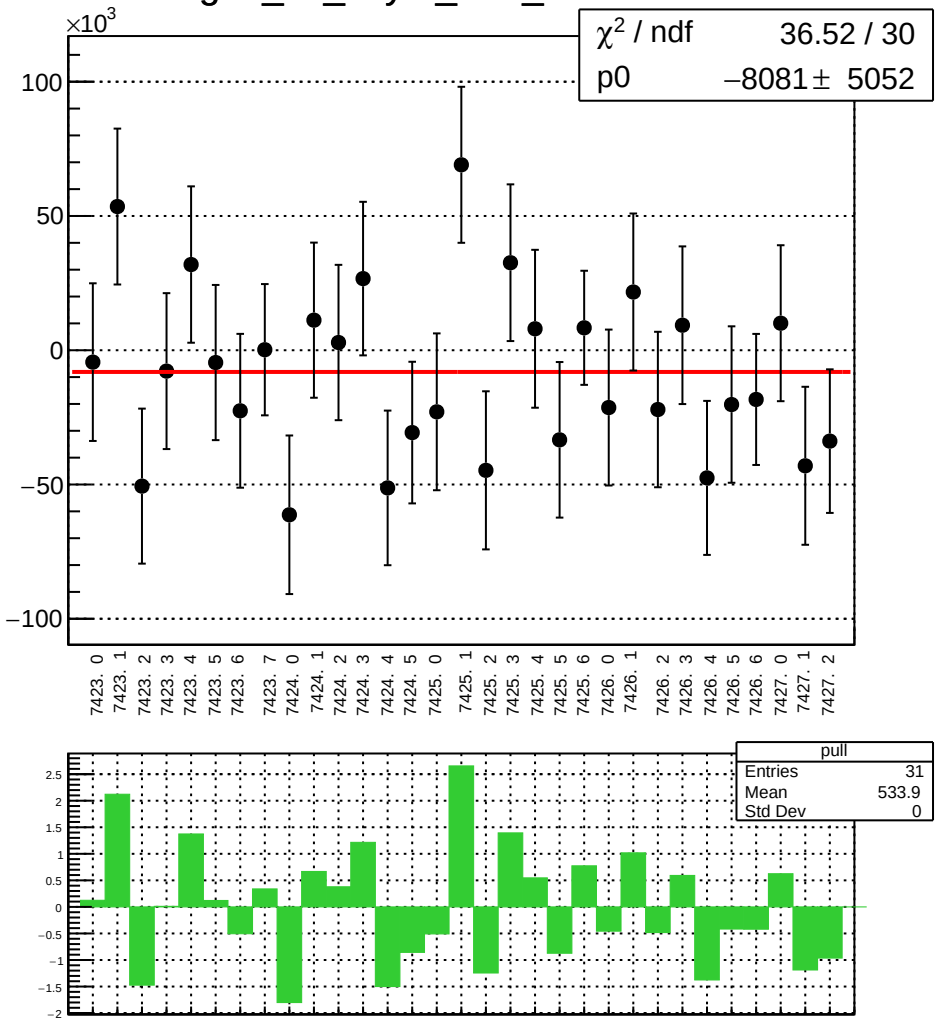

pull1D
Entries 31
Mean −0.003447
Std Dev 1.085
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

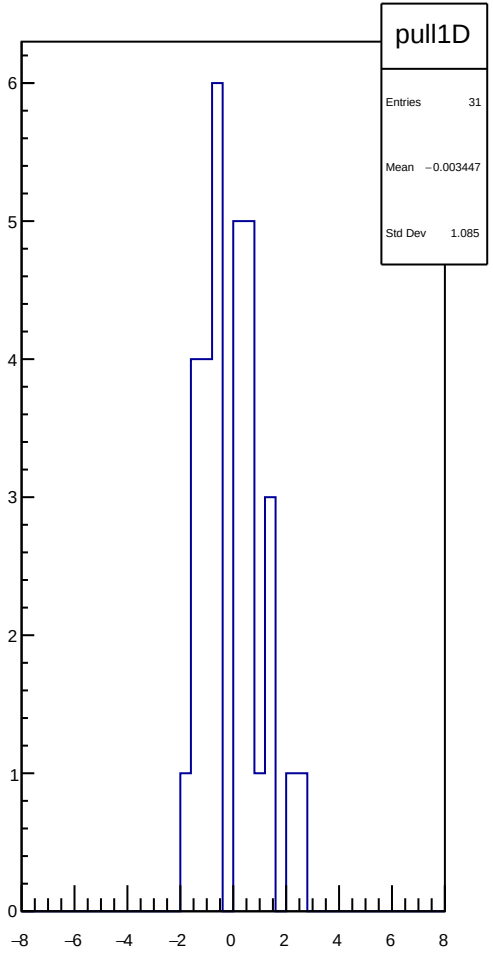

dit_asym_atr1_rms vs run
χ² / ndf 35.2 / 30
p0 2756 ± 3.572
2820
2800
2780
2760
2740
2720
2700
2680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

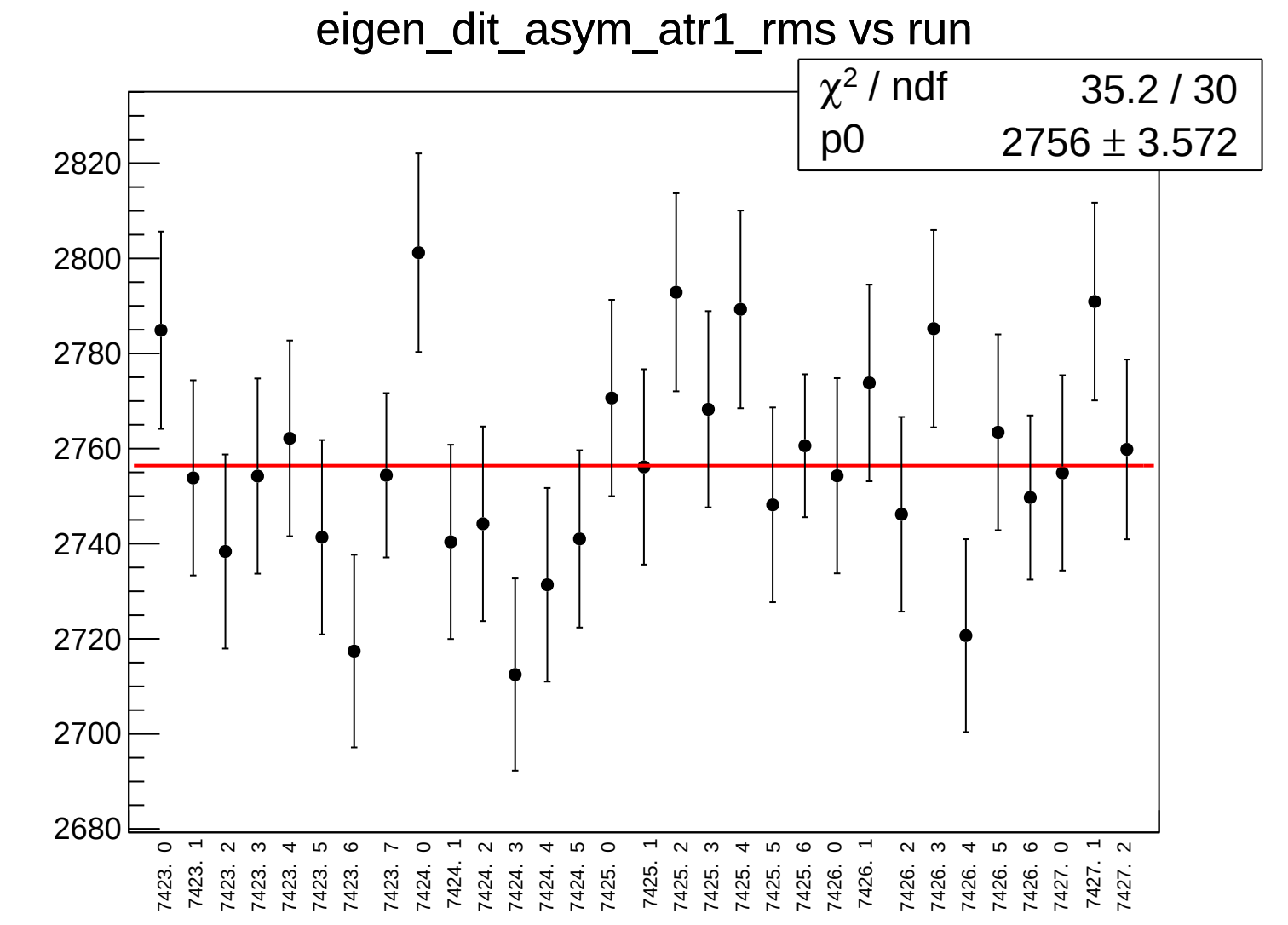

asym_atr1_dit_correction_mean vs run
χ² / ndf 20.56 / 30
p0 1922 ± 1311
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −88.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

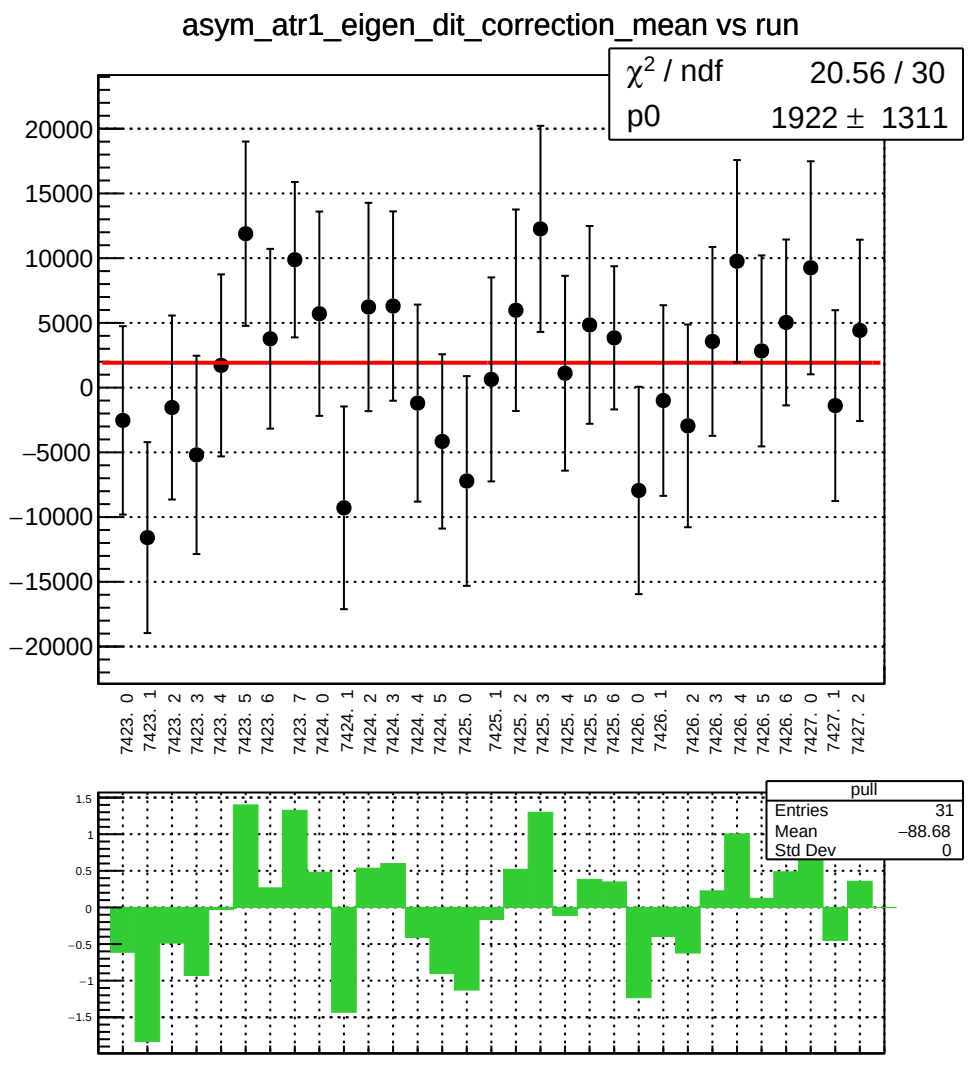

pull1D
Entries 31
Mean −0.01571
Std Dev 0.8142
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

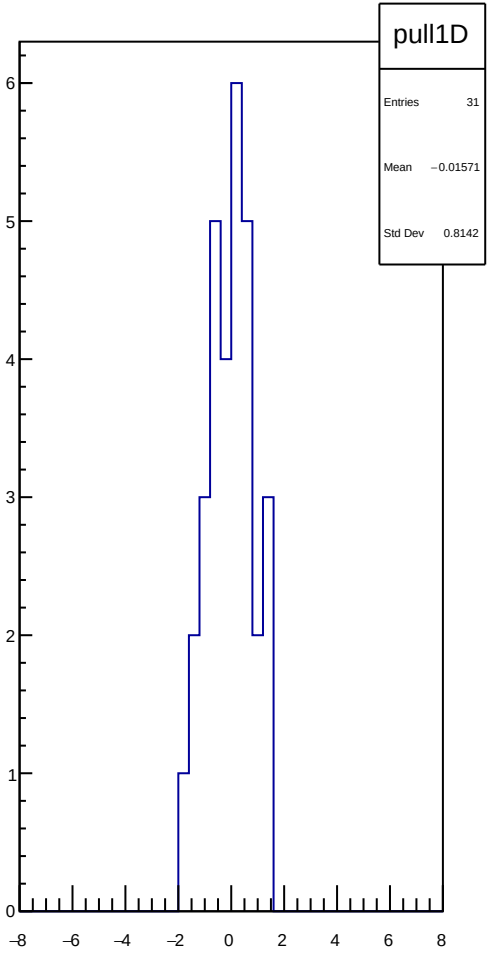

asym_atr1_dit_correction_rms vs run
χ² / ndf 1119 / 30
p0 714.9 ± 0.9273
780
760
740
720
700
680
660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

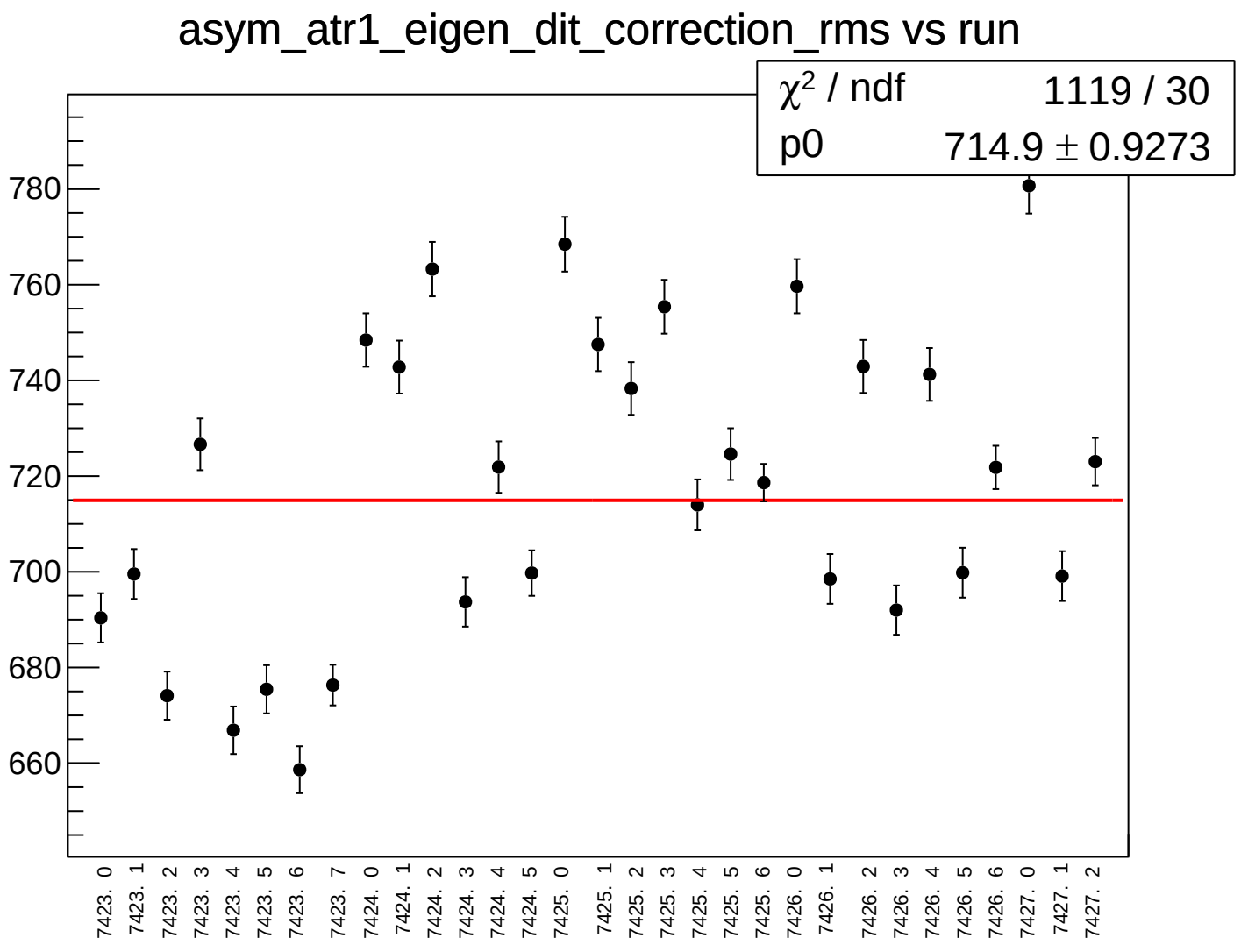

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 36.52 / 30
p0 −8081 ± 5052
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 533.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

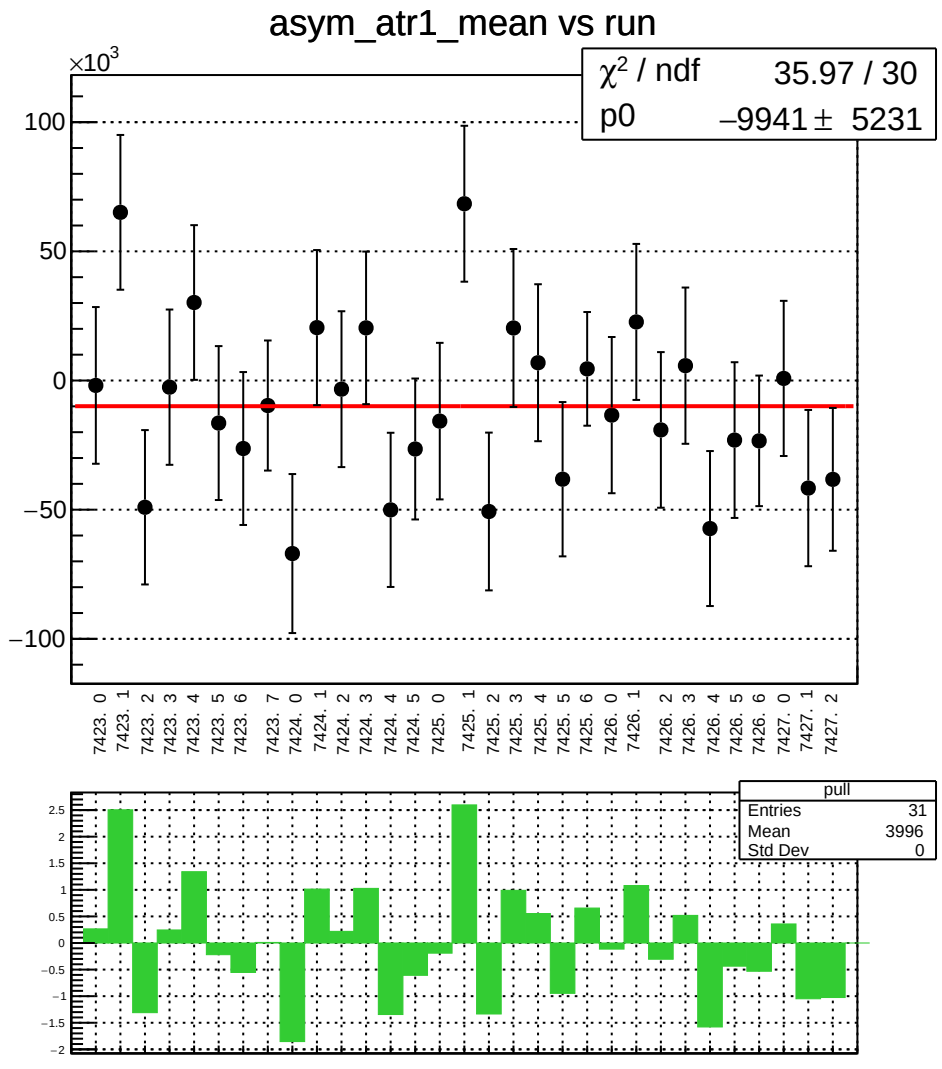

pull1D
Entries 31
Mean −0.003447
Std Dev 1.085
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

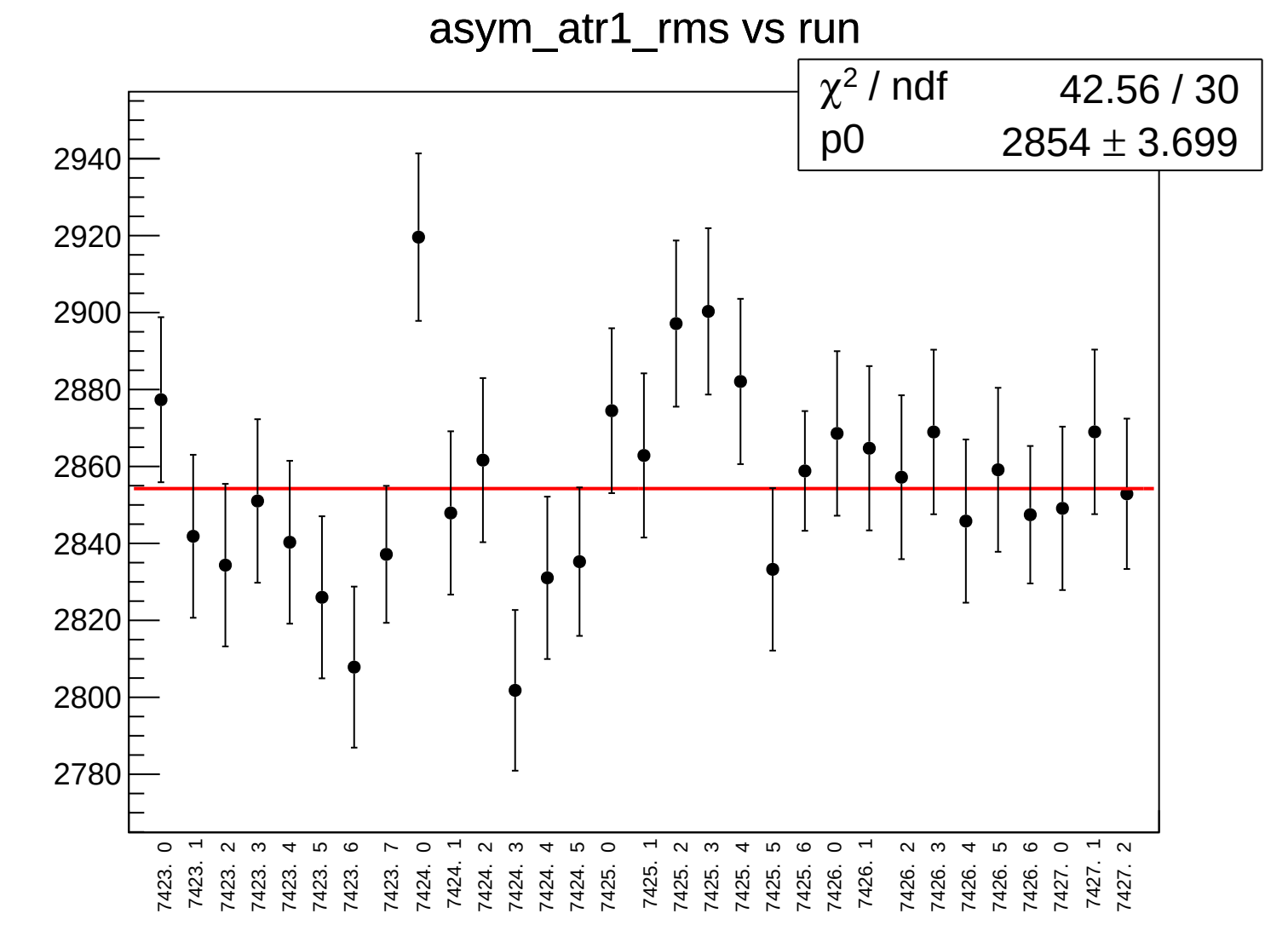

eigen_dit_asym_atr1_rms vs run
χ² / ndf 35.2 / 30
p0 2756 ± 3.572
2820
2800
2780
2760
2740
2720
2700
2680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

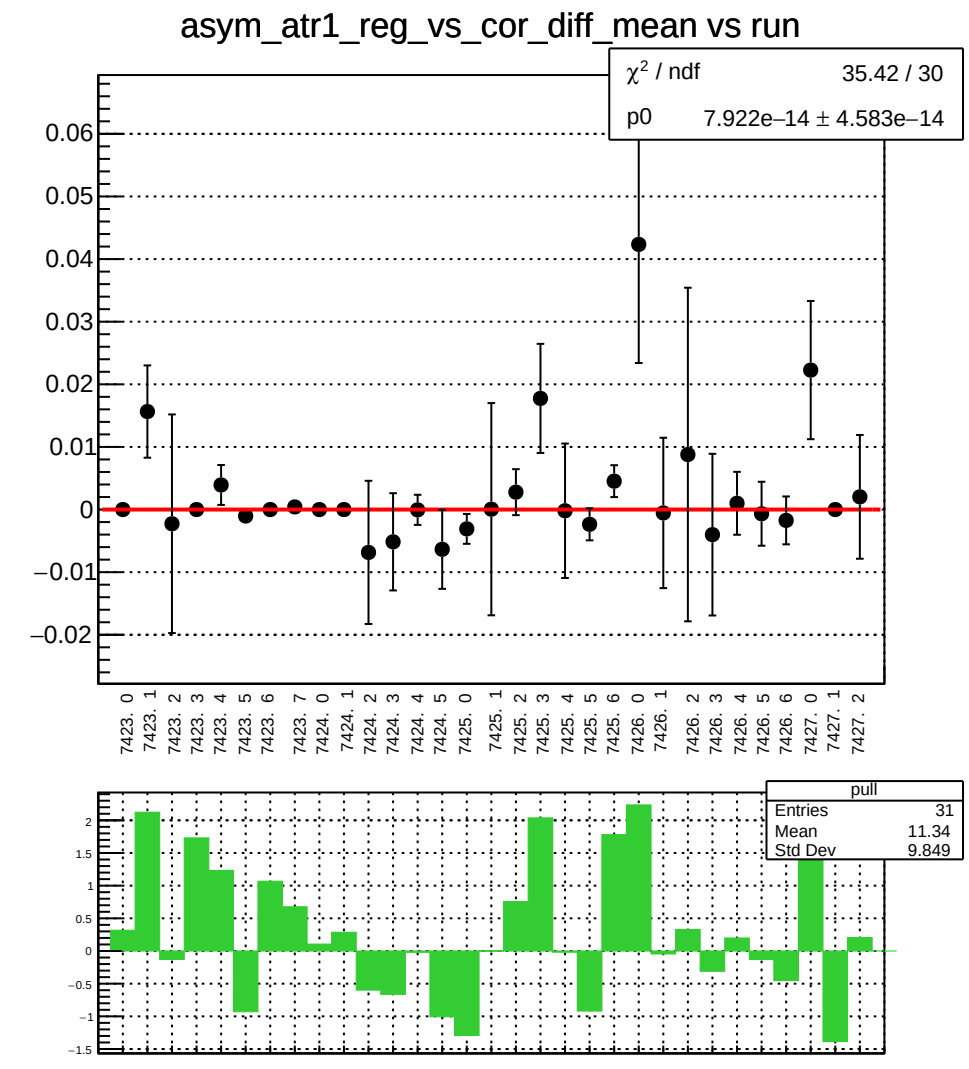

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 20.56 / 30
p0 1922 ± 1311
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −88.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

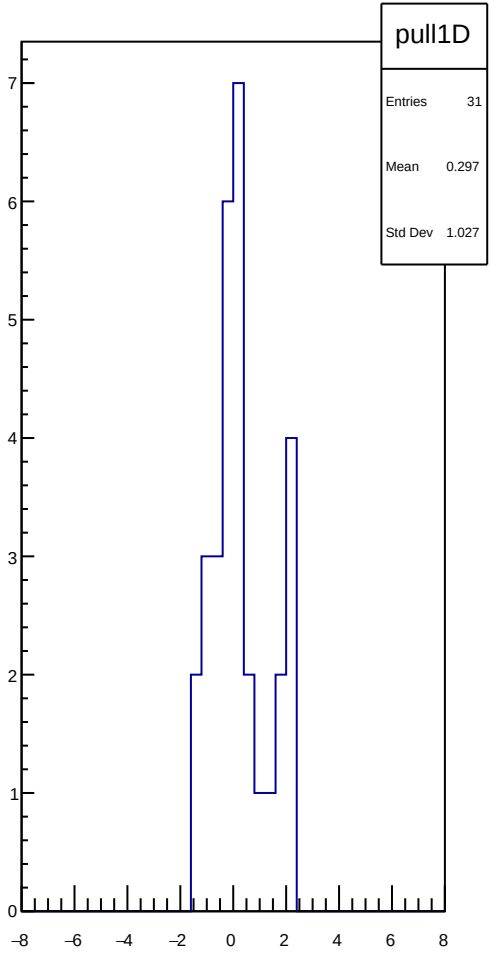

pull1D
Entries 31
Mean −0.01571
Std Dev 0.8142
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

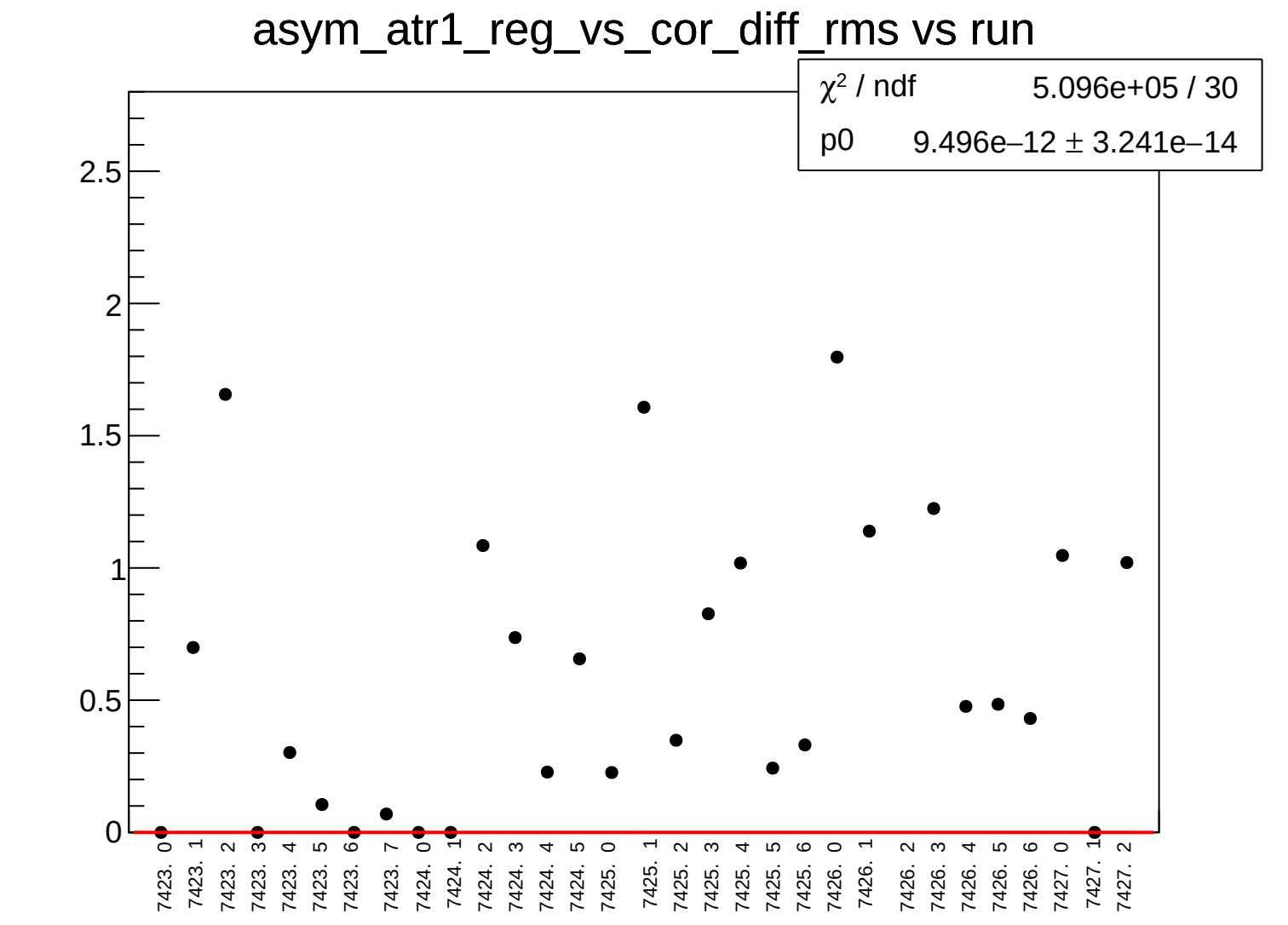

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1119 / 30
p0 714.9 ± 0.9273
780
760
740
720
700
680
660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

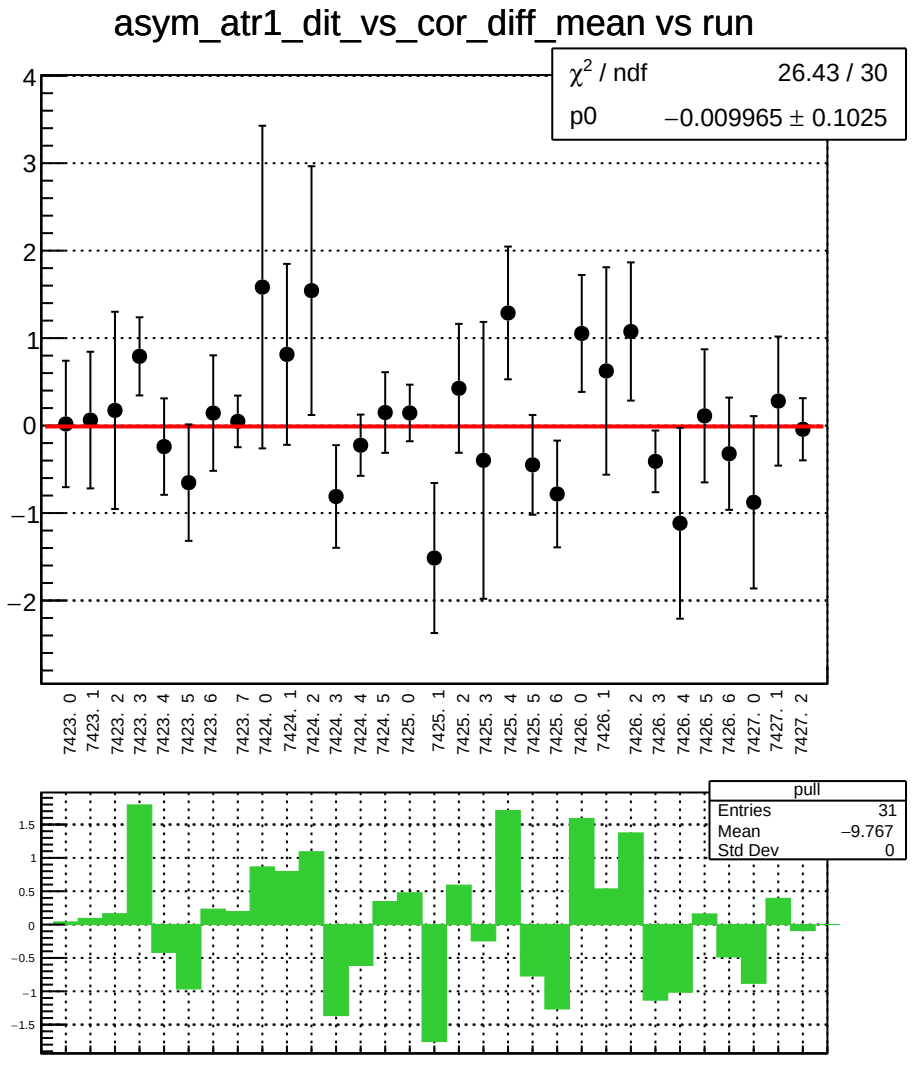

asym_atr1_mean vs run
×10^3
χ² / ndf 35.97 / 30
p0 −9941 ± 5231
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 3996
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.0005423
Std Dev 1.077
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

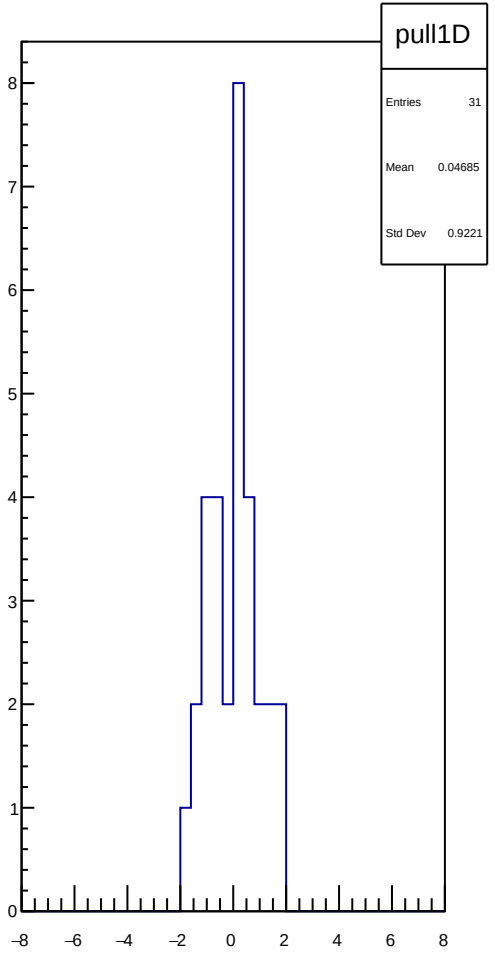

asym_atr1_rms vs run
χ² / ndf 42.56 / 30
p0 2854 ± 3.699
2940
2920
2900
2880
2860
2840
2820
2800
2780
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

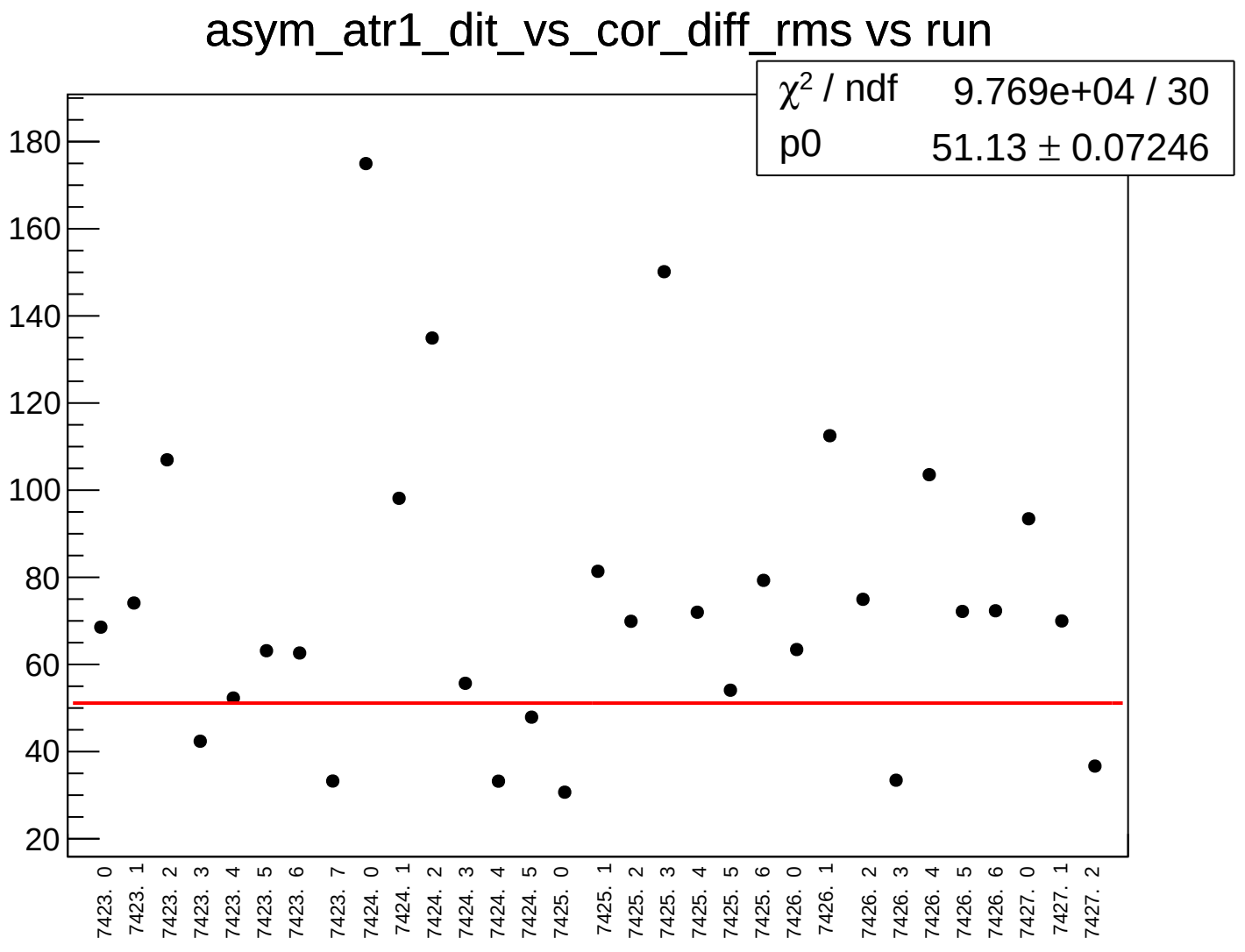

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 35.42 / 30
p0 7.922e−14 ± 4.583e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.34
Std Dev 9.849
2
1.5
1
0.5
0
−0.5
−1
−1.5

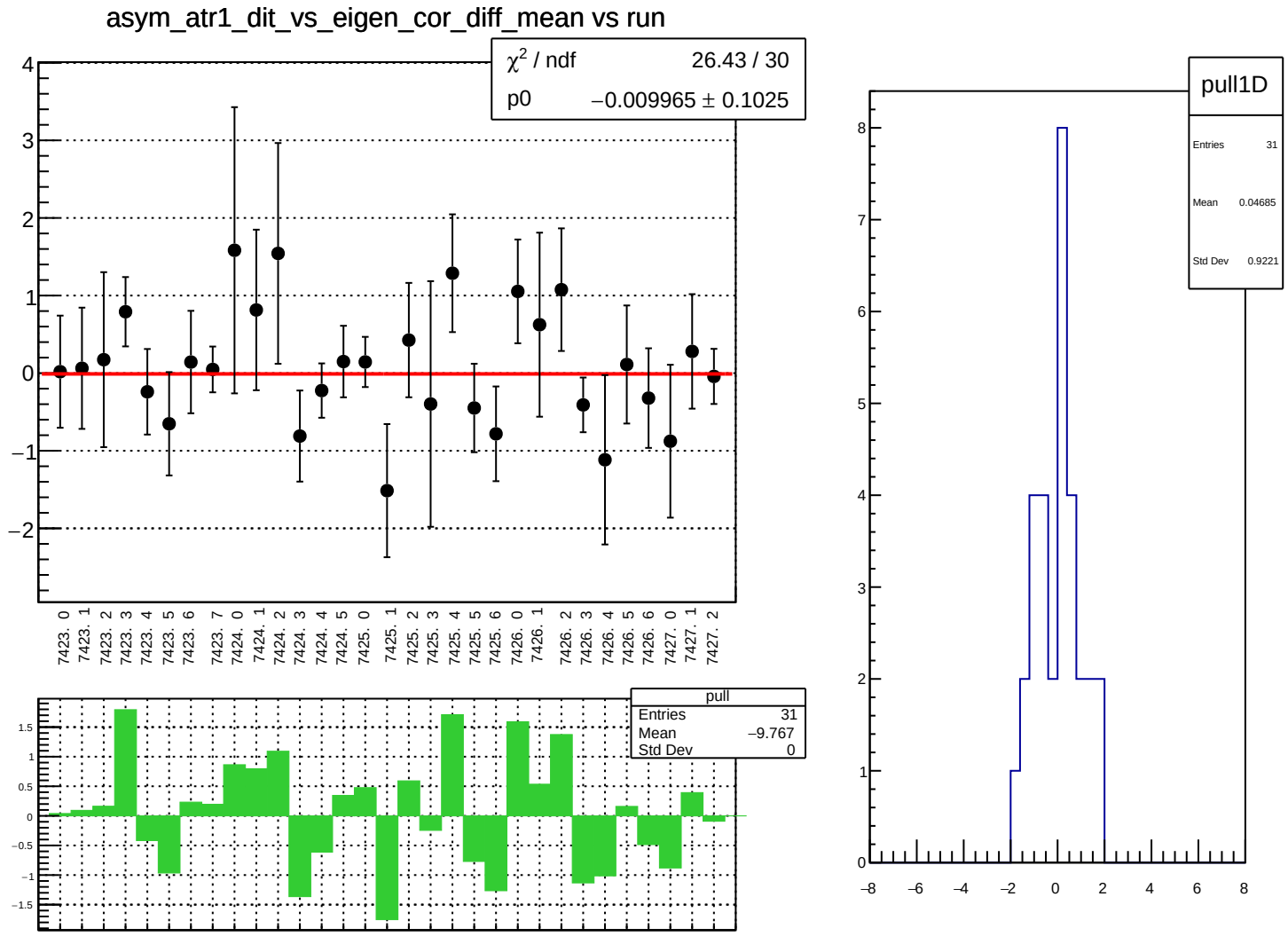

pull1D
Entries 31
Mean 0.297
Std Dev 1.027
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

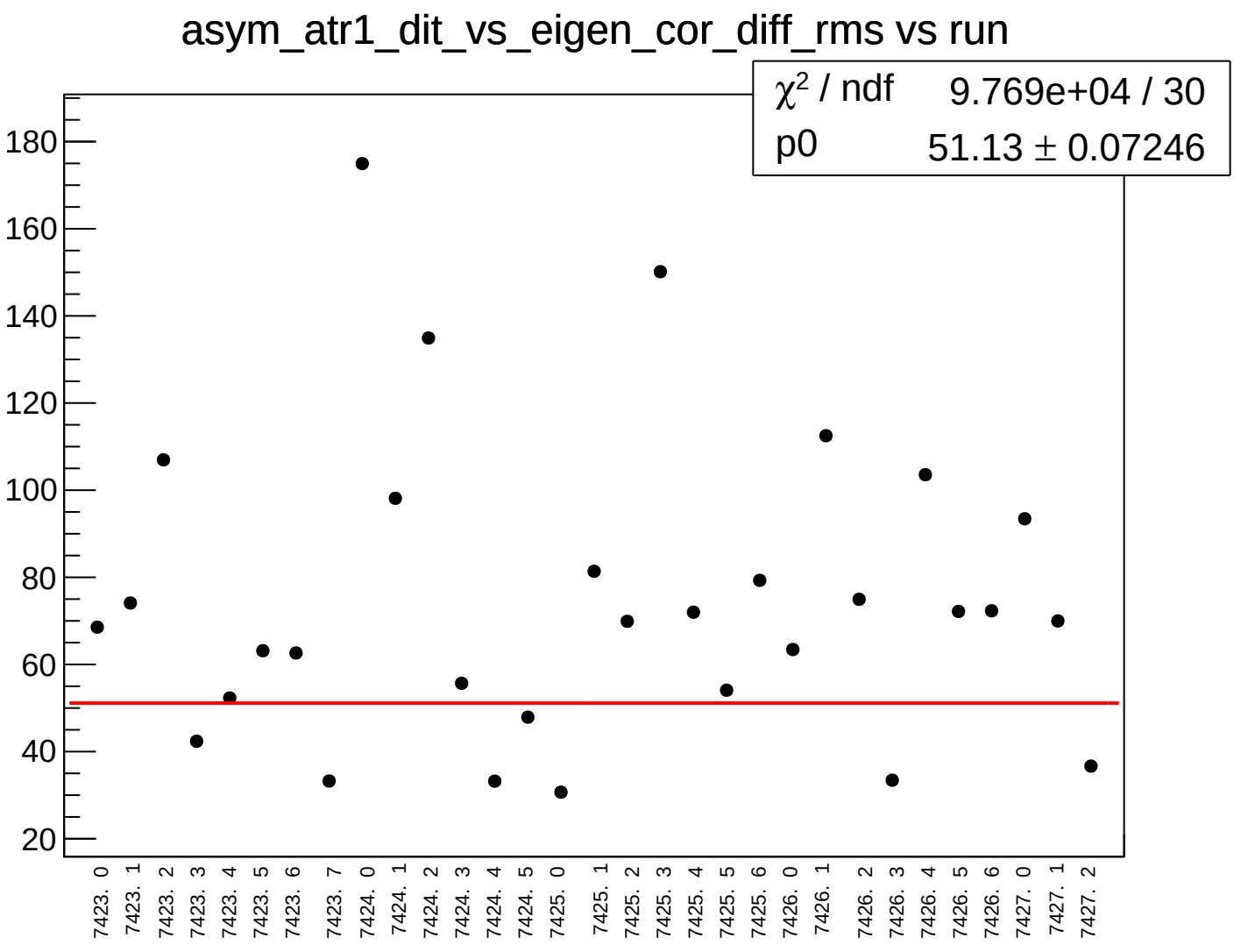

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.096e+05 / 30
p0 9.496e−12 ± 3.241e−14
2.5
2
1.5
1
0.5
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

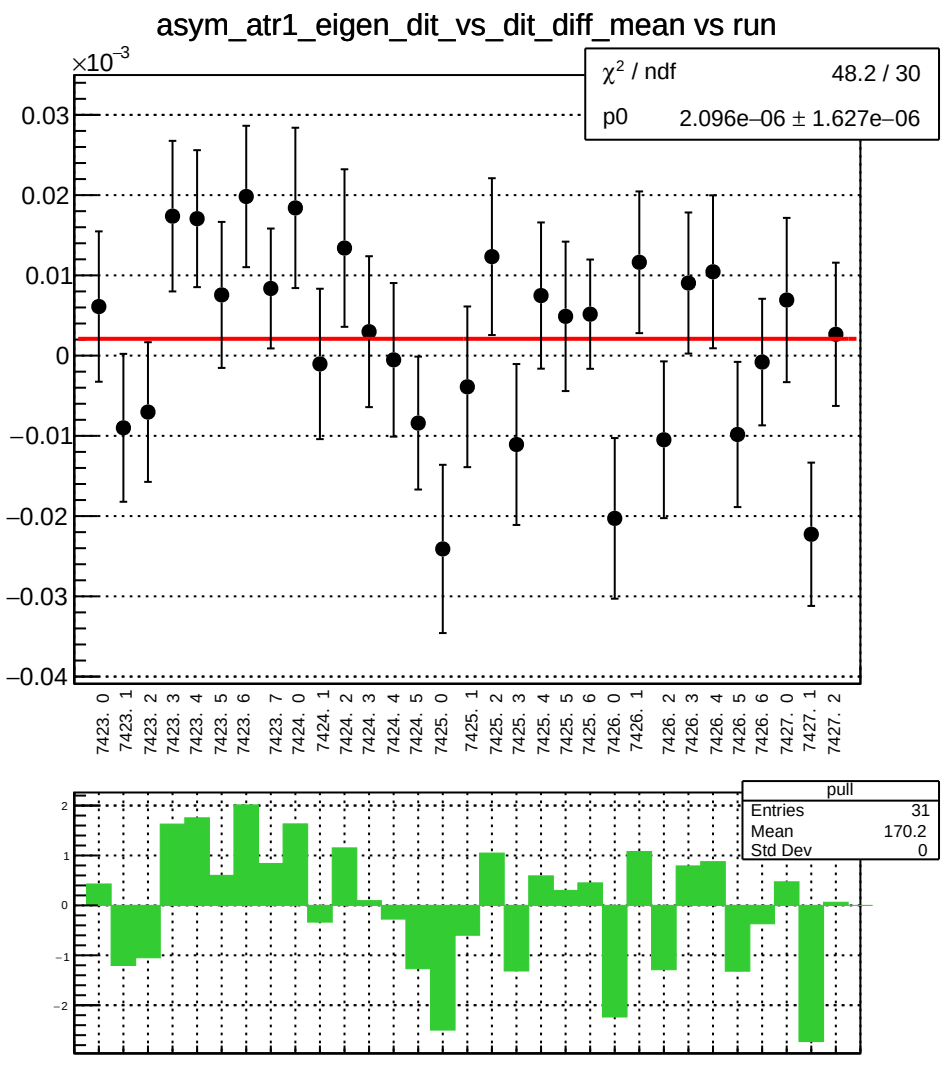

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 26.43 / 30
p0 −0.009965 ± 0.1025
4
3
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −9.767
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

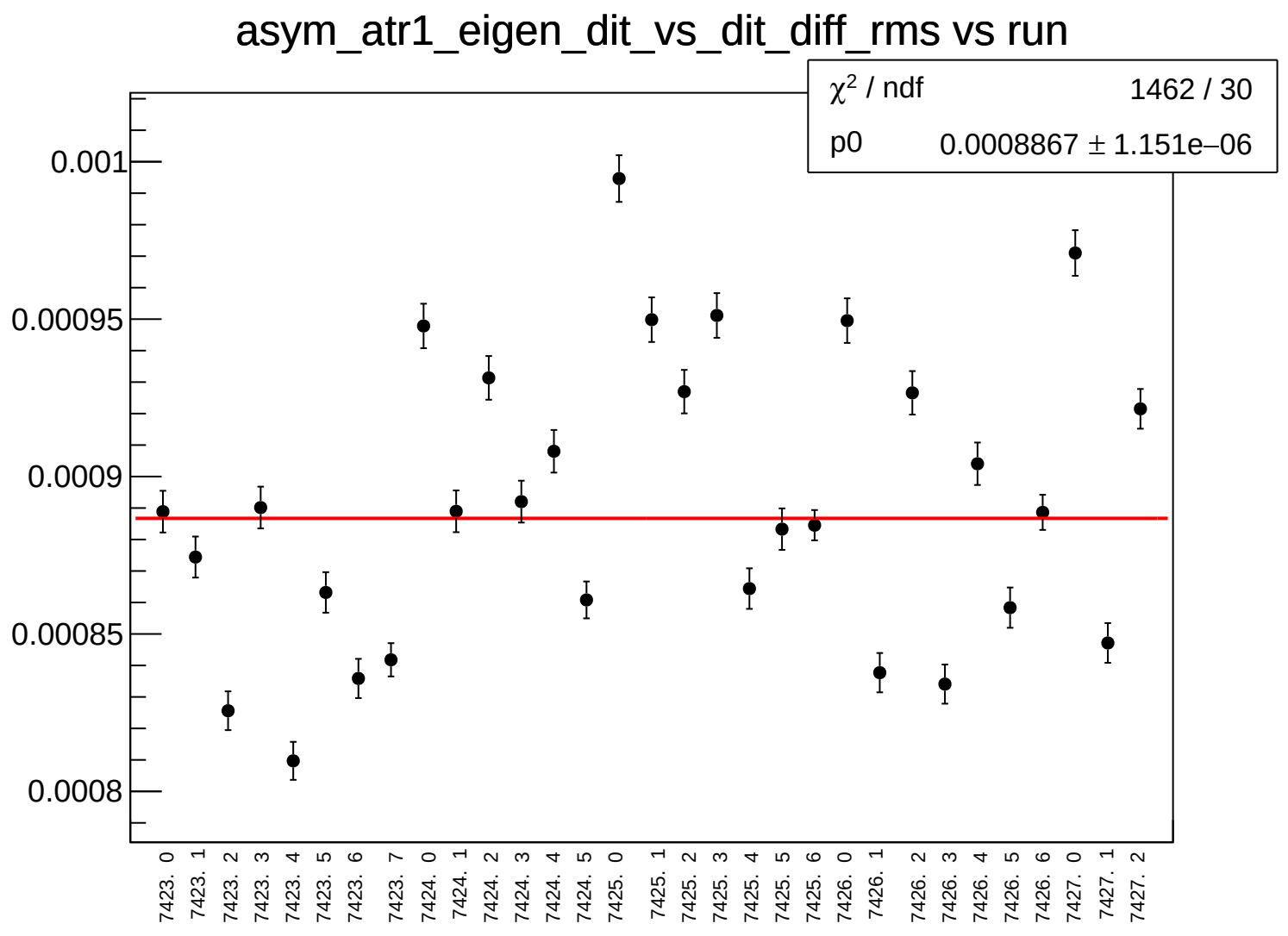

pull1D
Entries 31
Mean 0.04685
Std Dev 0.9221
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

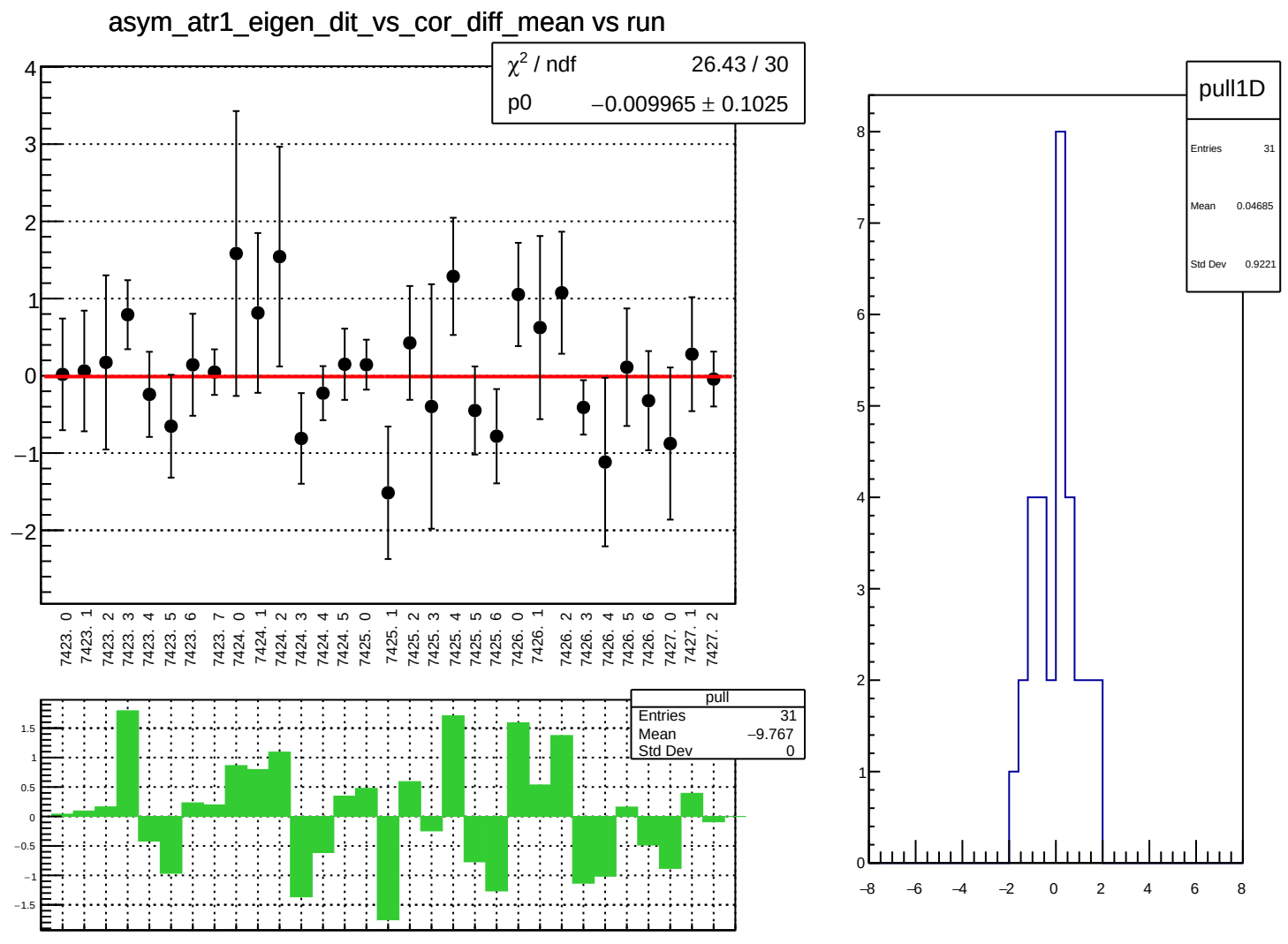

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 9.769e+04 / 30
p0 51.13 ± 0.07246
180
160
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

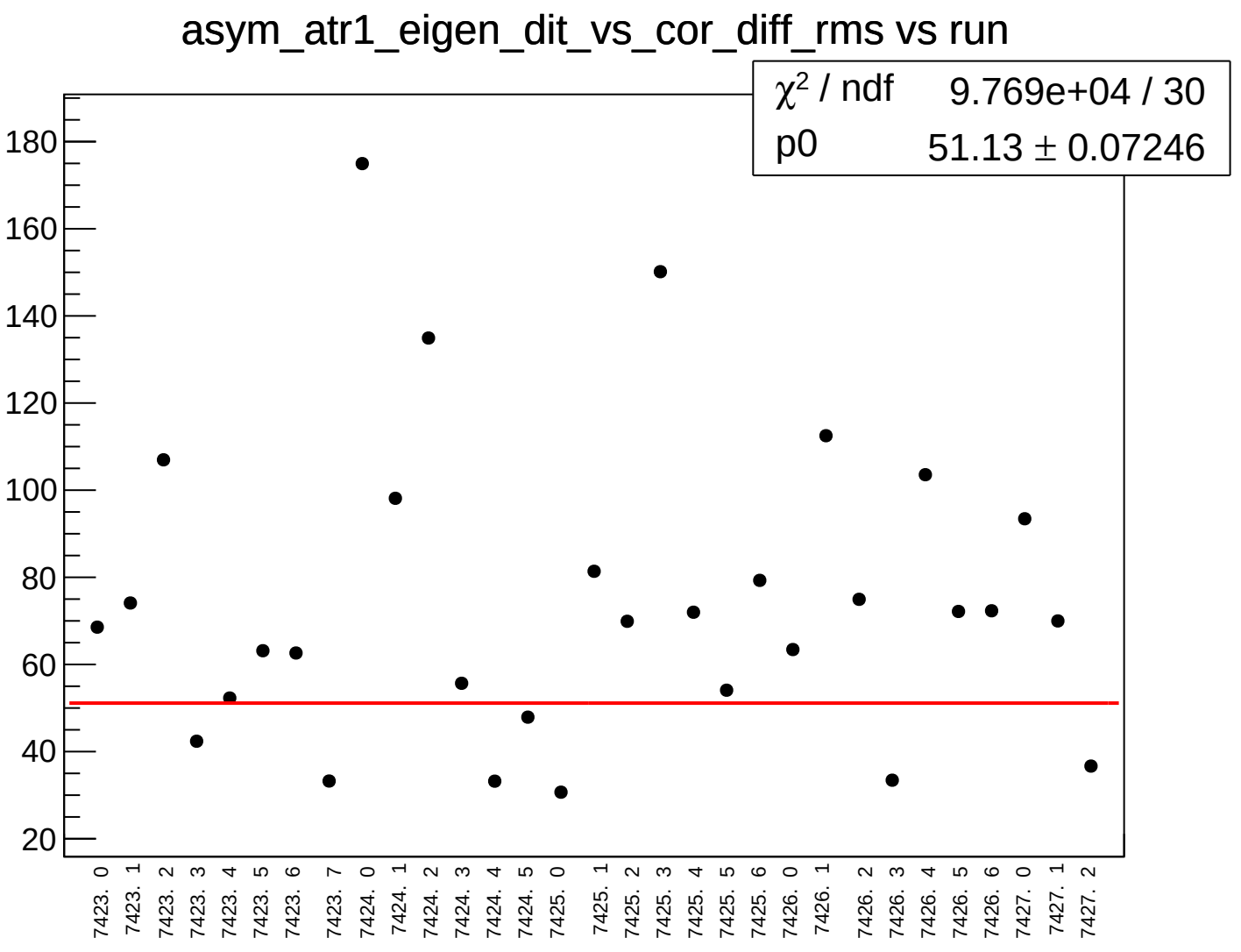

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.43 / 30
p0 −0.009965 ± 0.1025
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −9.767
Std Dev 0
pull1D
Entries 31
Mean 0.04685
Std Dev 0.9221

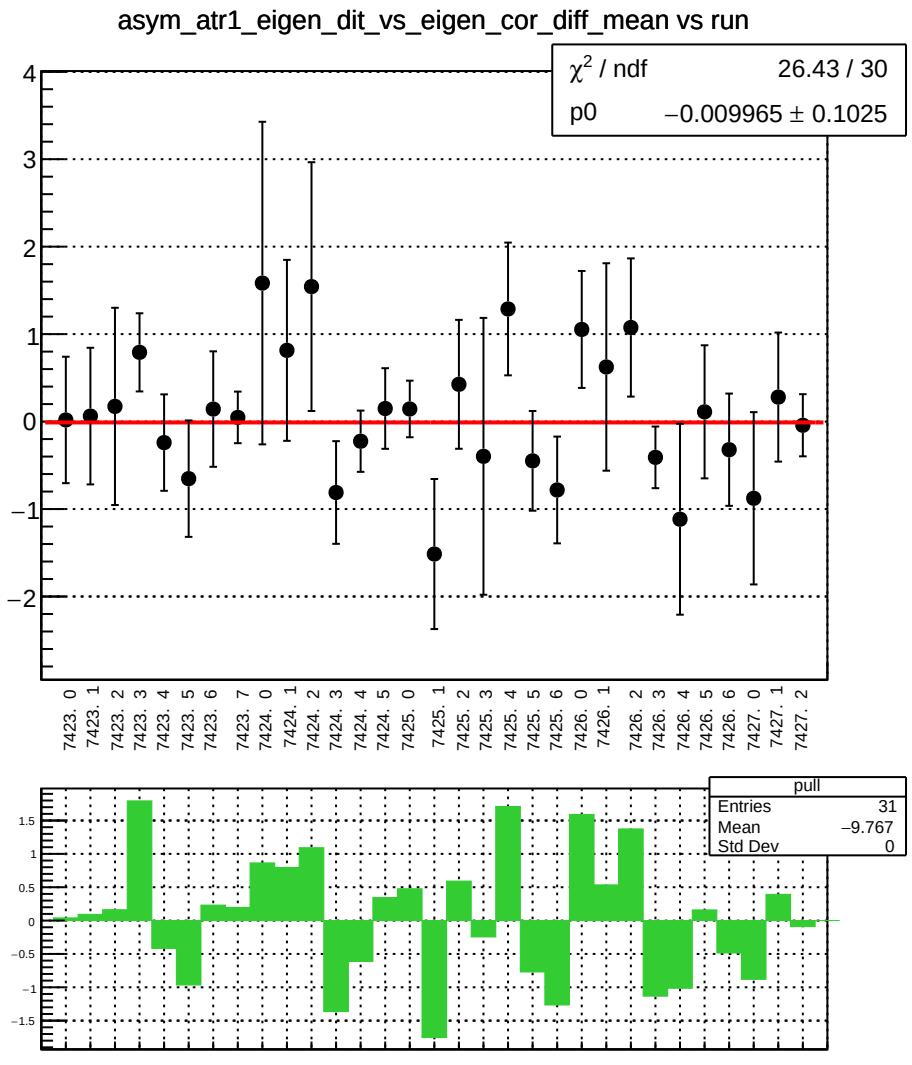

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.769e+04 / 30
p0 51.13 ± 0.07246
180
160
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

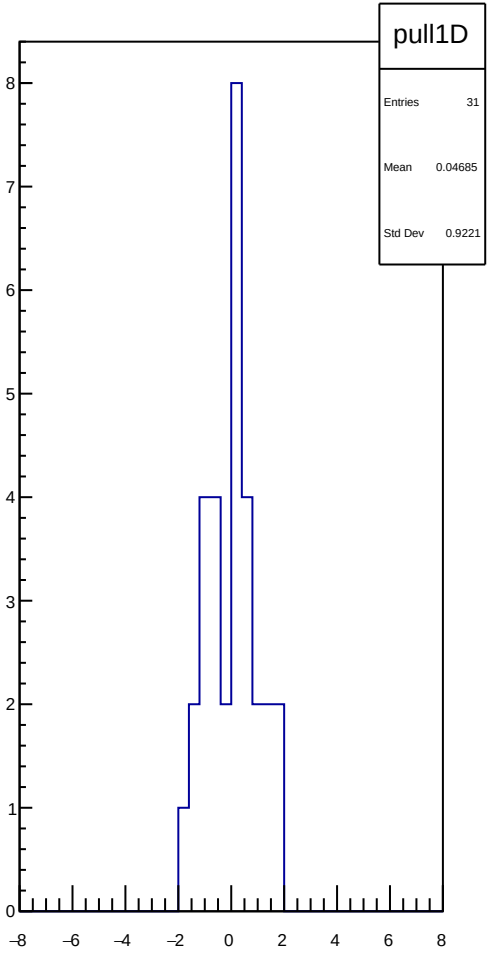

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.2 / 30
p0 2.096e−06 ± 1.627e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 170.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.02126
Std Dev 1.247
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

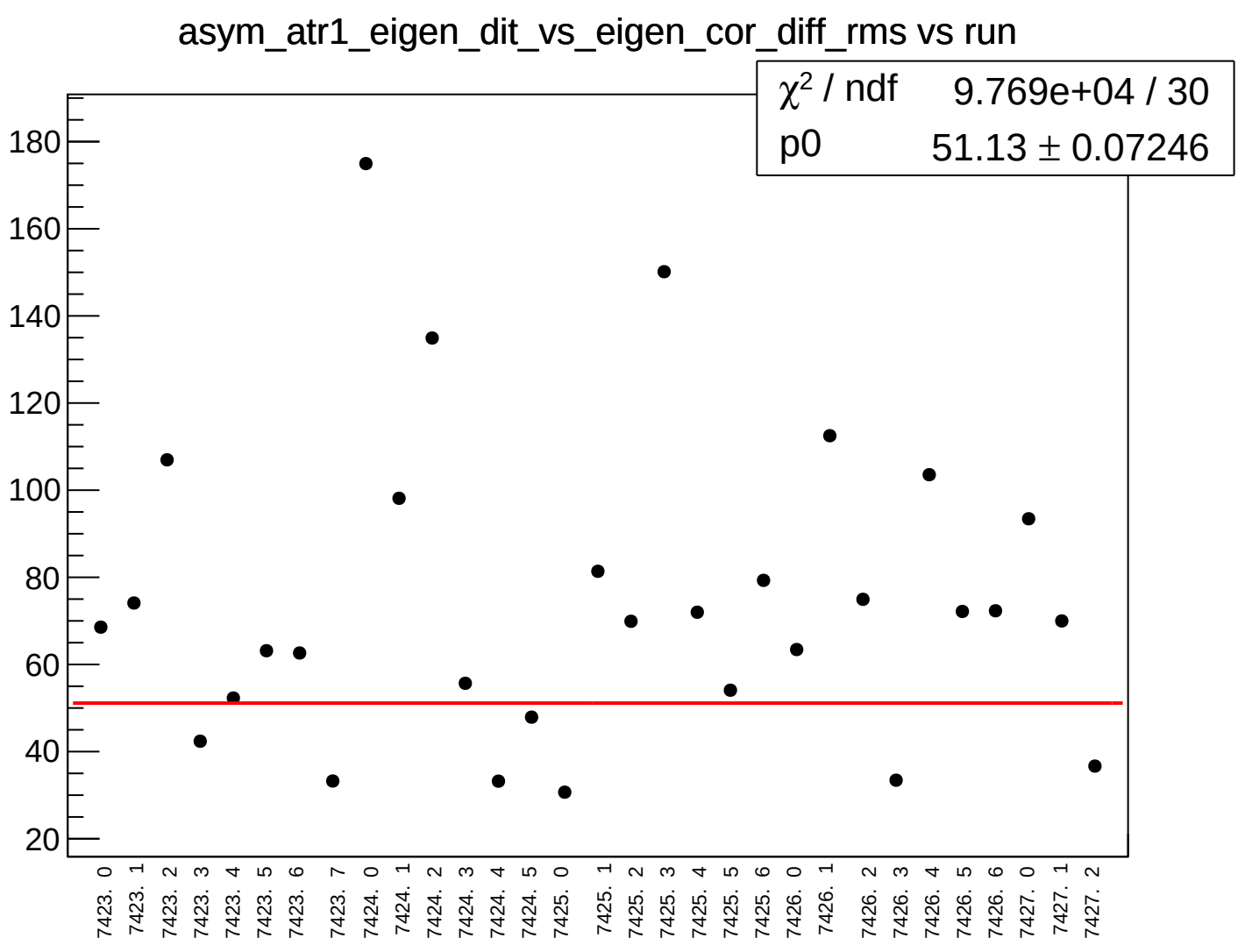

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1462 / 30
p0 0.0008867 ± 1.151e−06
0.001
0.00095
0.0009
0.00085
0.0008
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

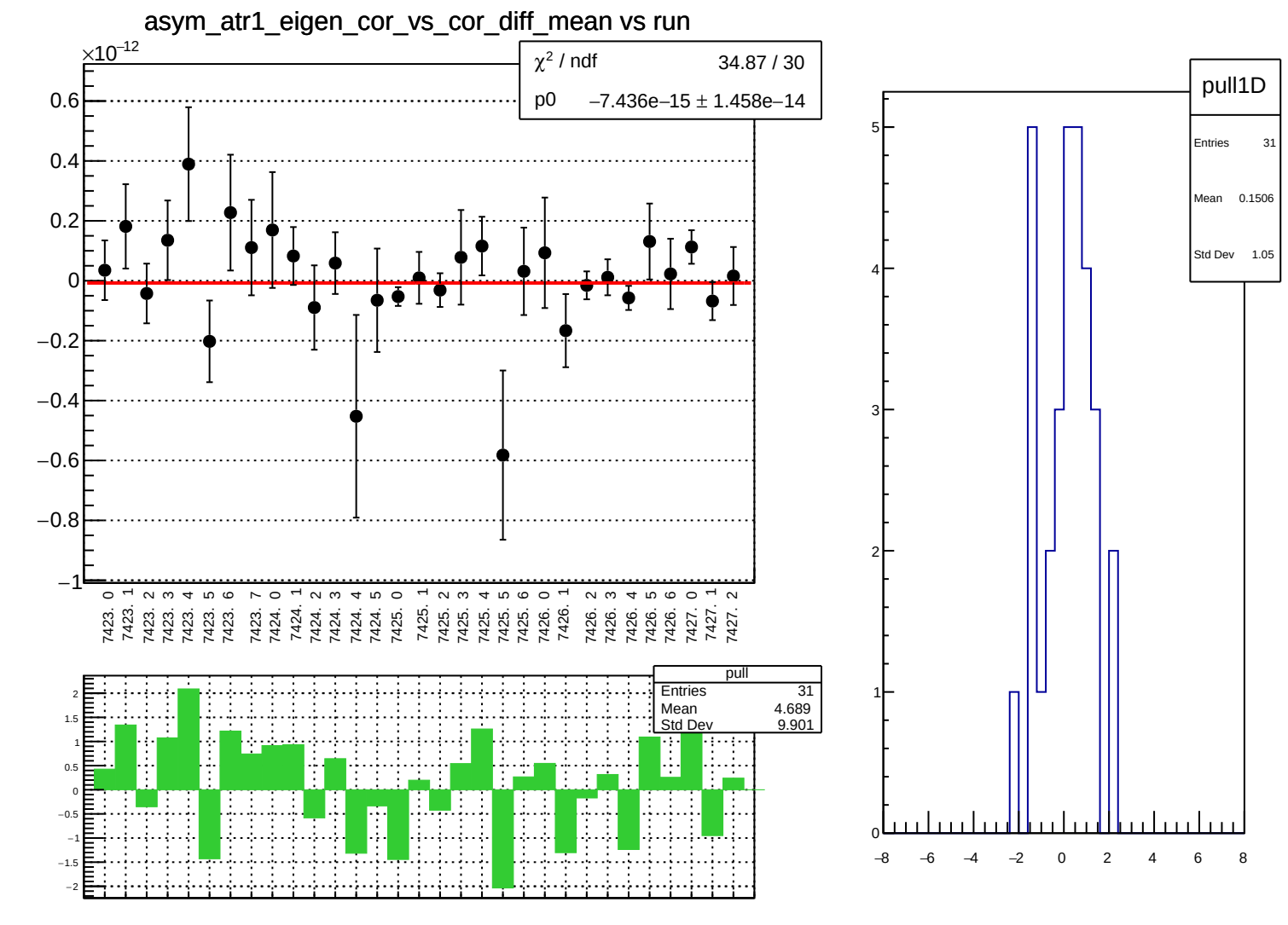

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.43 / 30
p0 −0.009965 ± 0.1025
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −9.767
Std Dev 0
pull1D
Entries 31
Mean 0.04685
Std Dev 0.9221

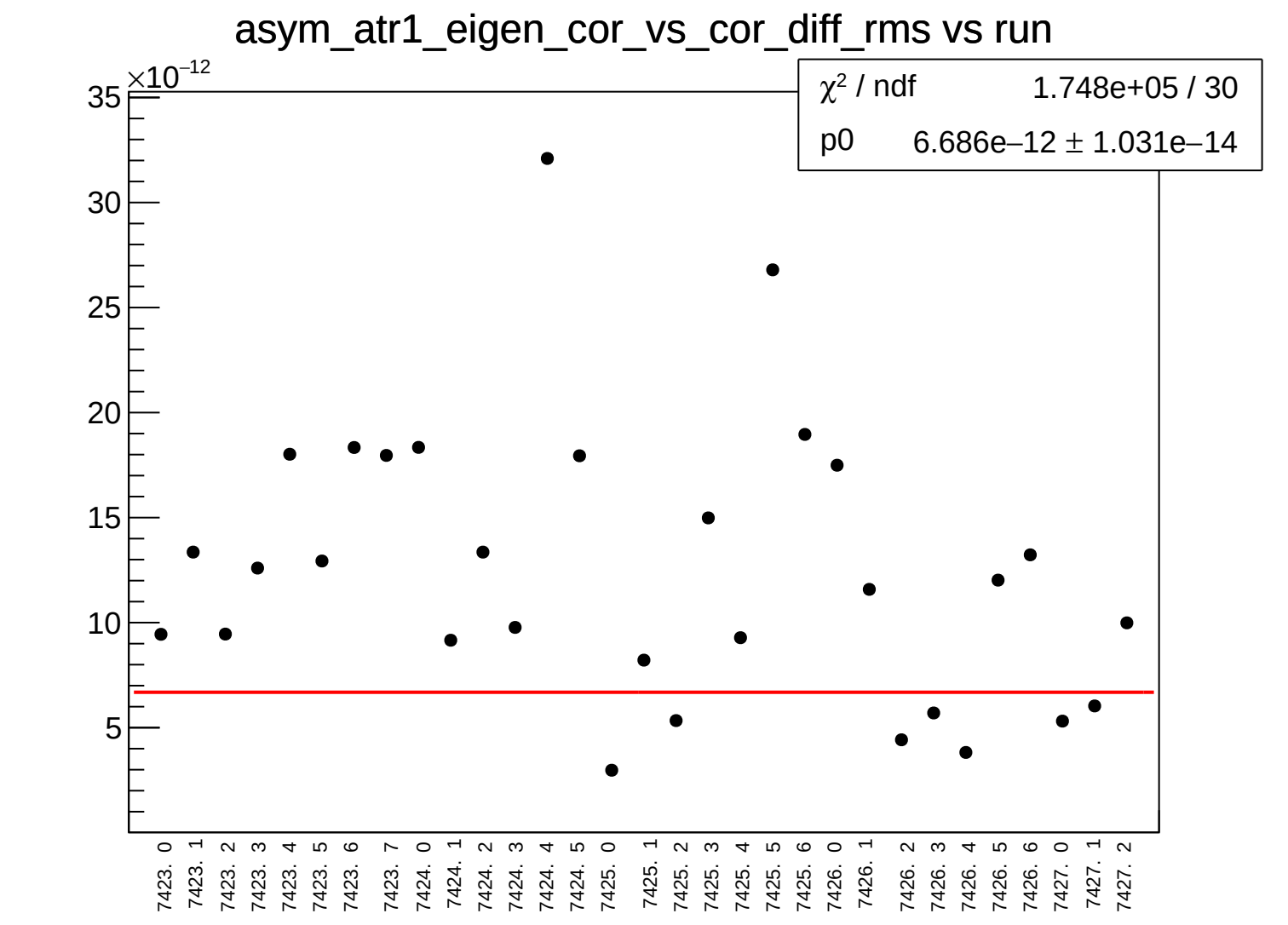

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.769e+04 / 30
p0 51.13 ± 0.07246
180
160
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

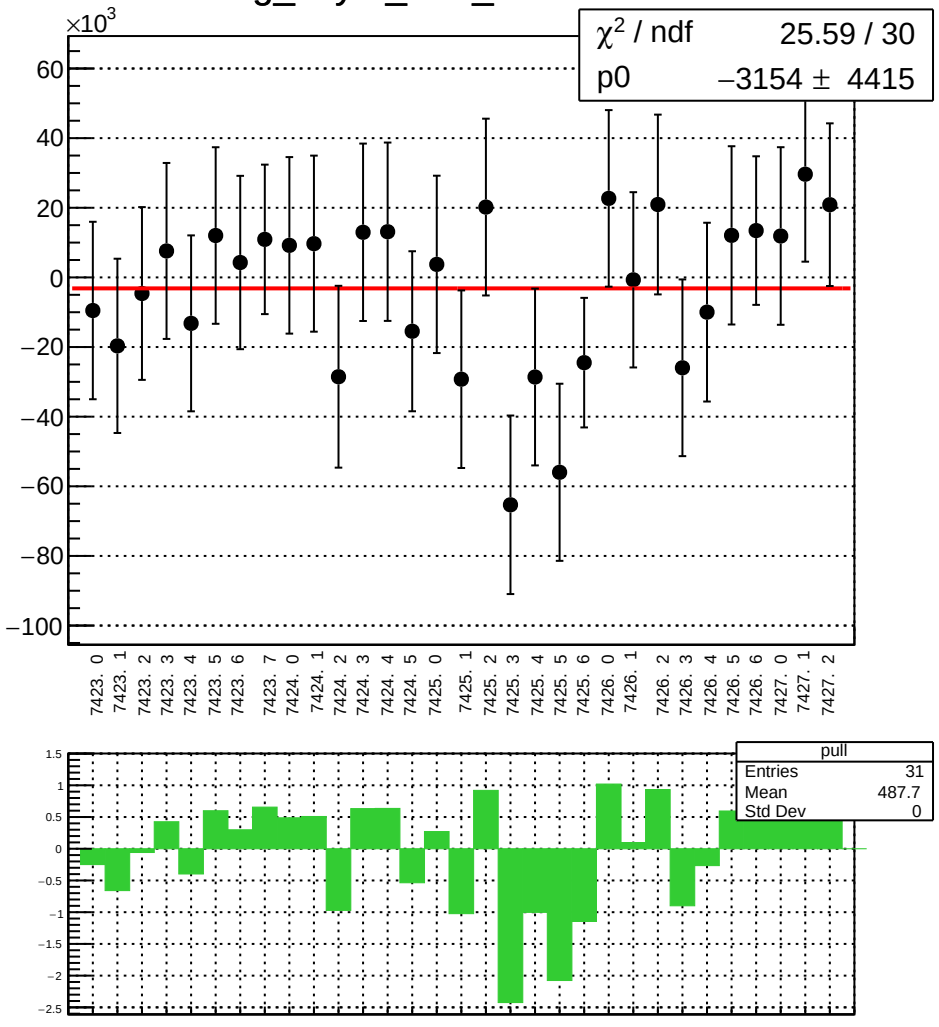

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.43 / 30
p0 −0.009965 ± 0.1025
4
3
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −9.767
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

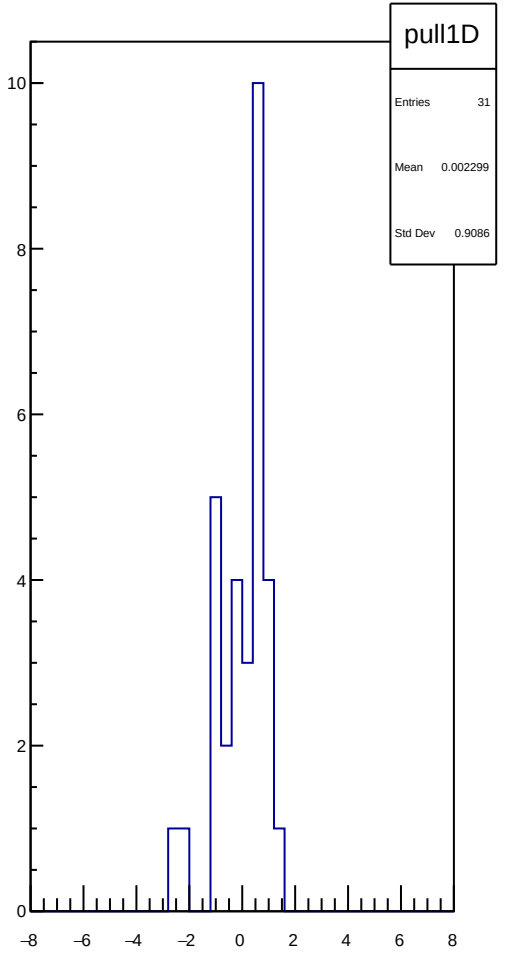

pull1D
Entries 31
Mean 0.04685
Std Dev 0.9221
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

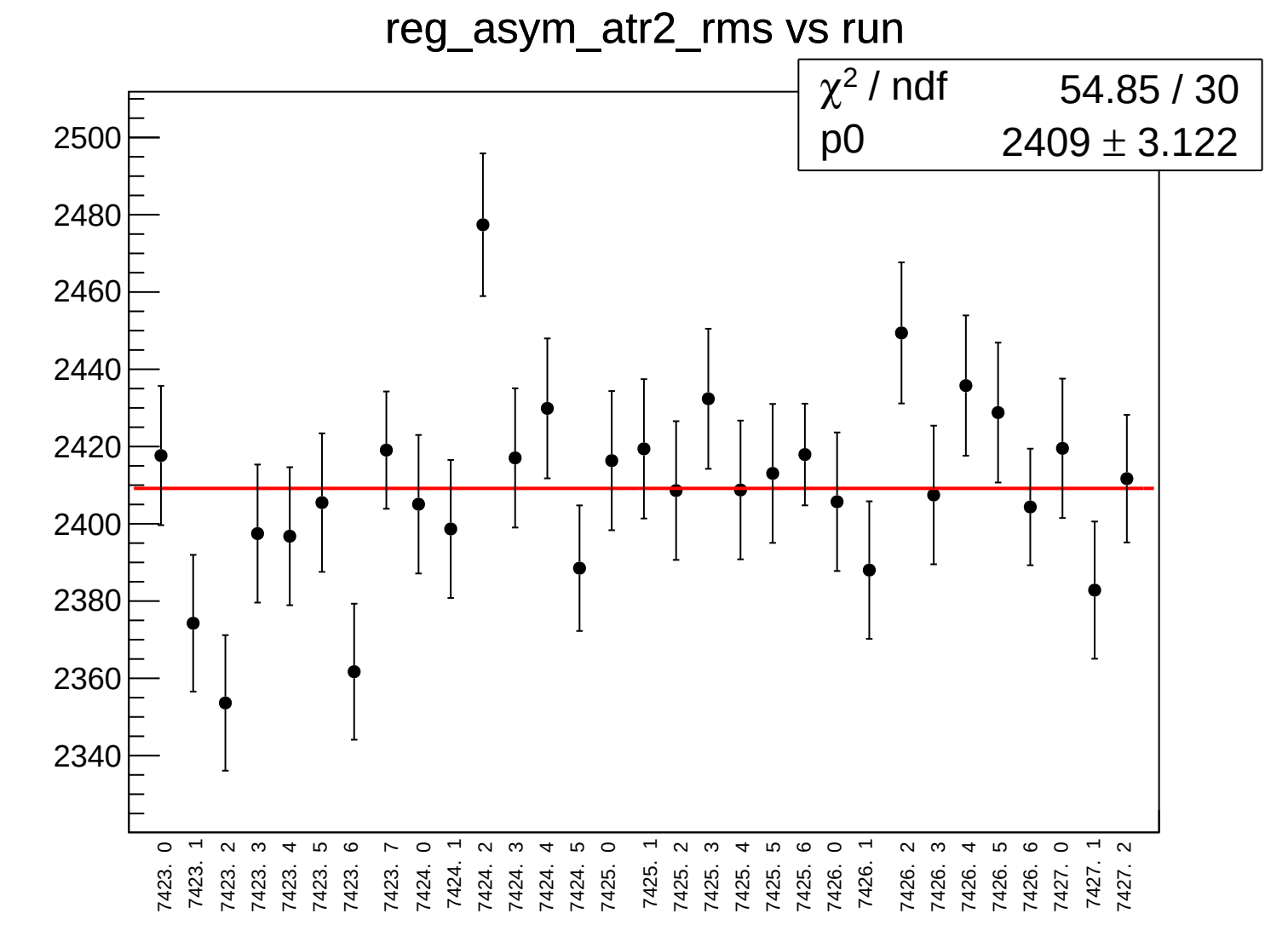

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.769e+04 / 30
p0 51.13 ± 0.07246
180
160
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

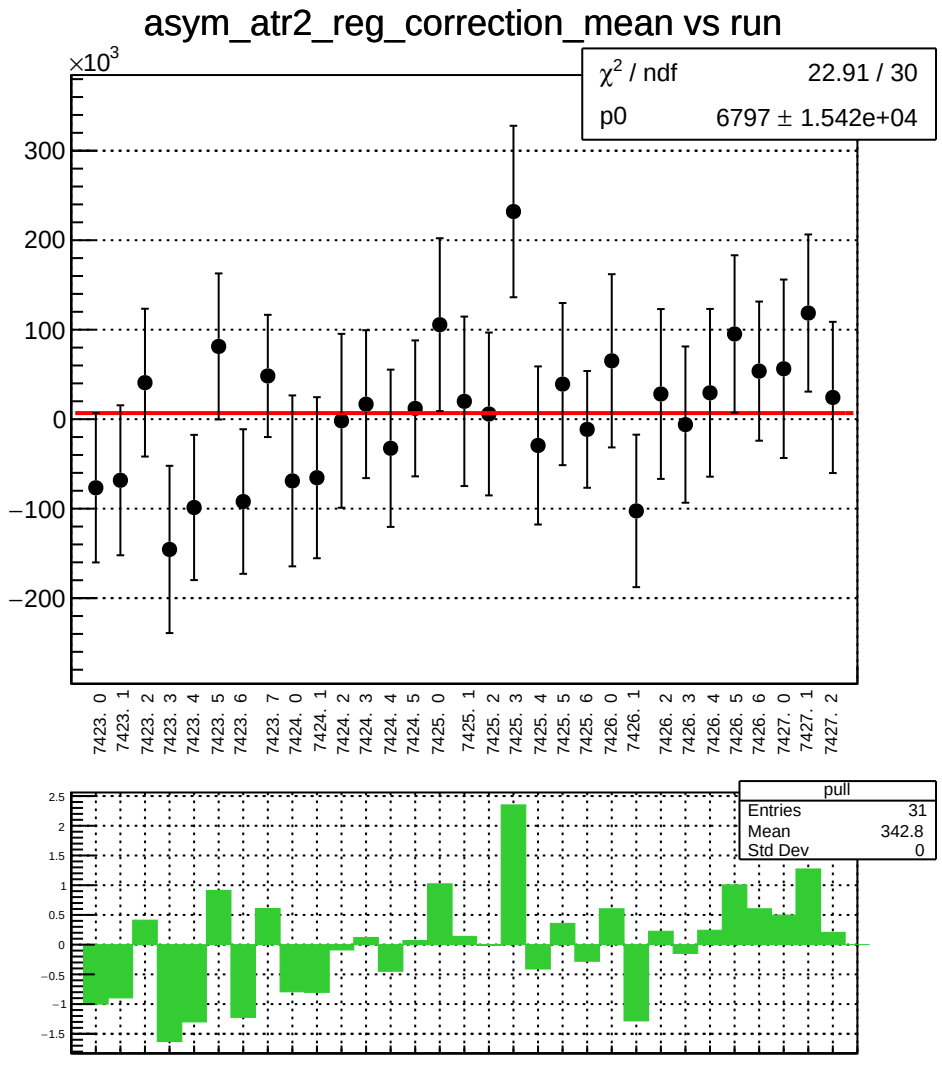

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 34.87 / 30
p0 −7.436e−15 ± 1.458e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 4.689
Std Dev 9.901
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.1506
Std Dev 1.05
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

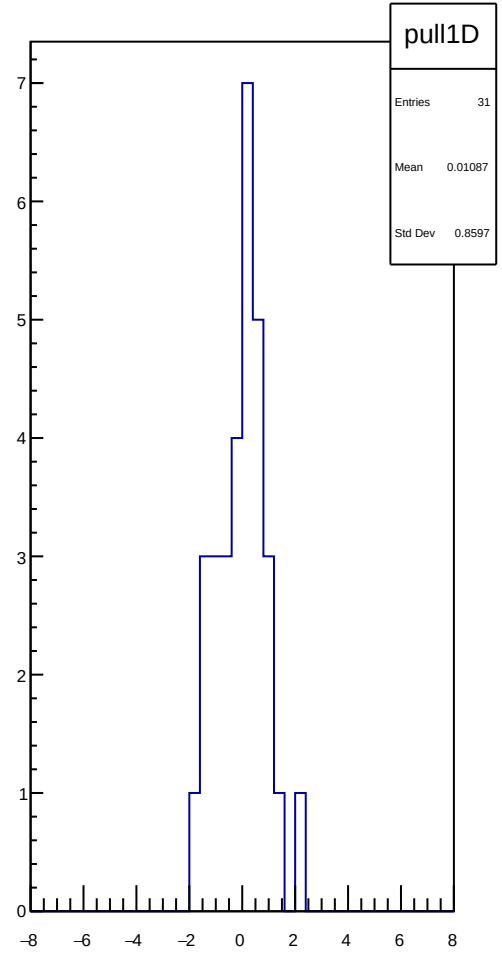

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.748e+05 / 30
p0 6.686e−12 ± 1.031e−14
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

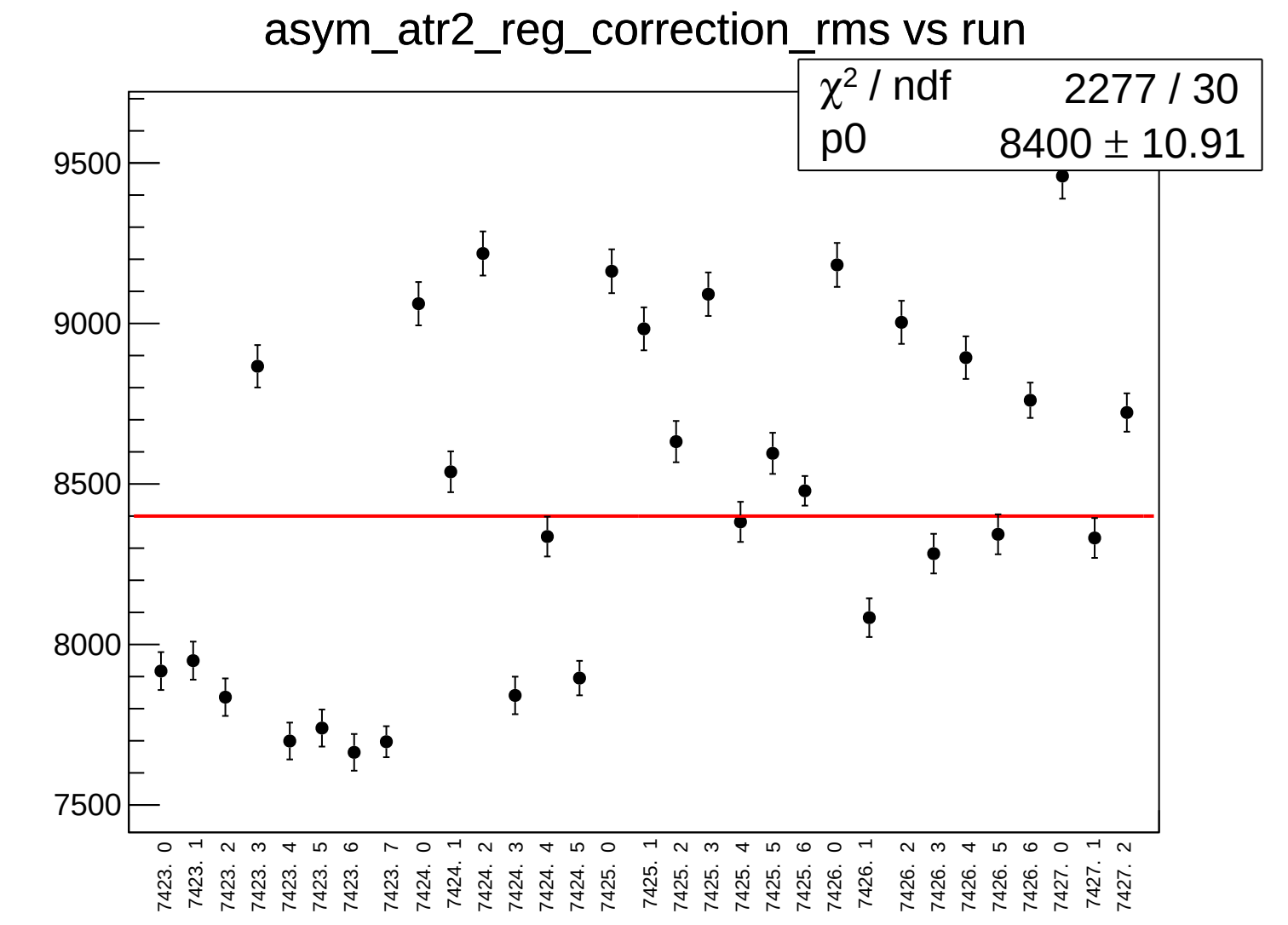

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 25.59 / 30
p0 −3154 ± 4415
60
40
20
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 487.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

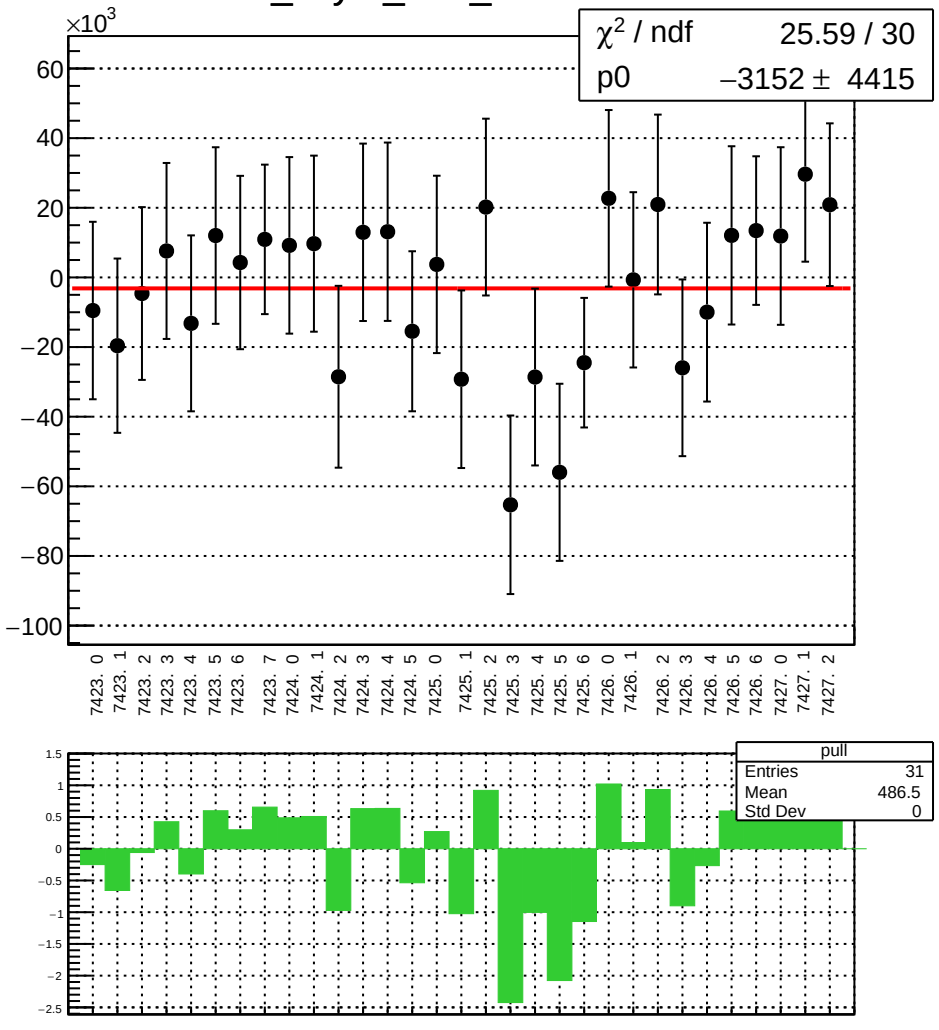

pull1D
Entries 31
Mean 0.002299
Std Dev 0.9086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

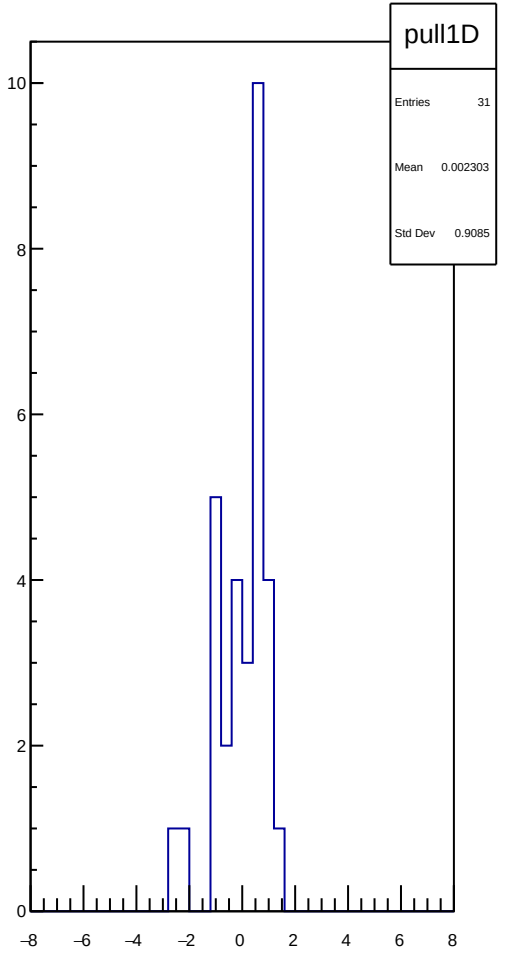

reg_asym_atr2_rms vs run
χ² / ndf 54.85 / 30
p0 2409 ± 3.122
2500
2480
2460
2440
2420
2400
2380
2360
2340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

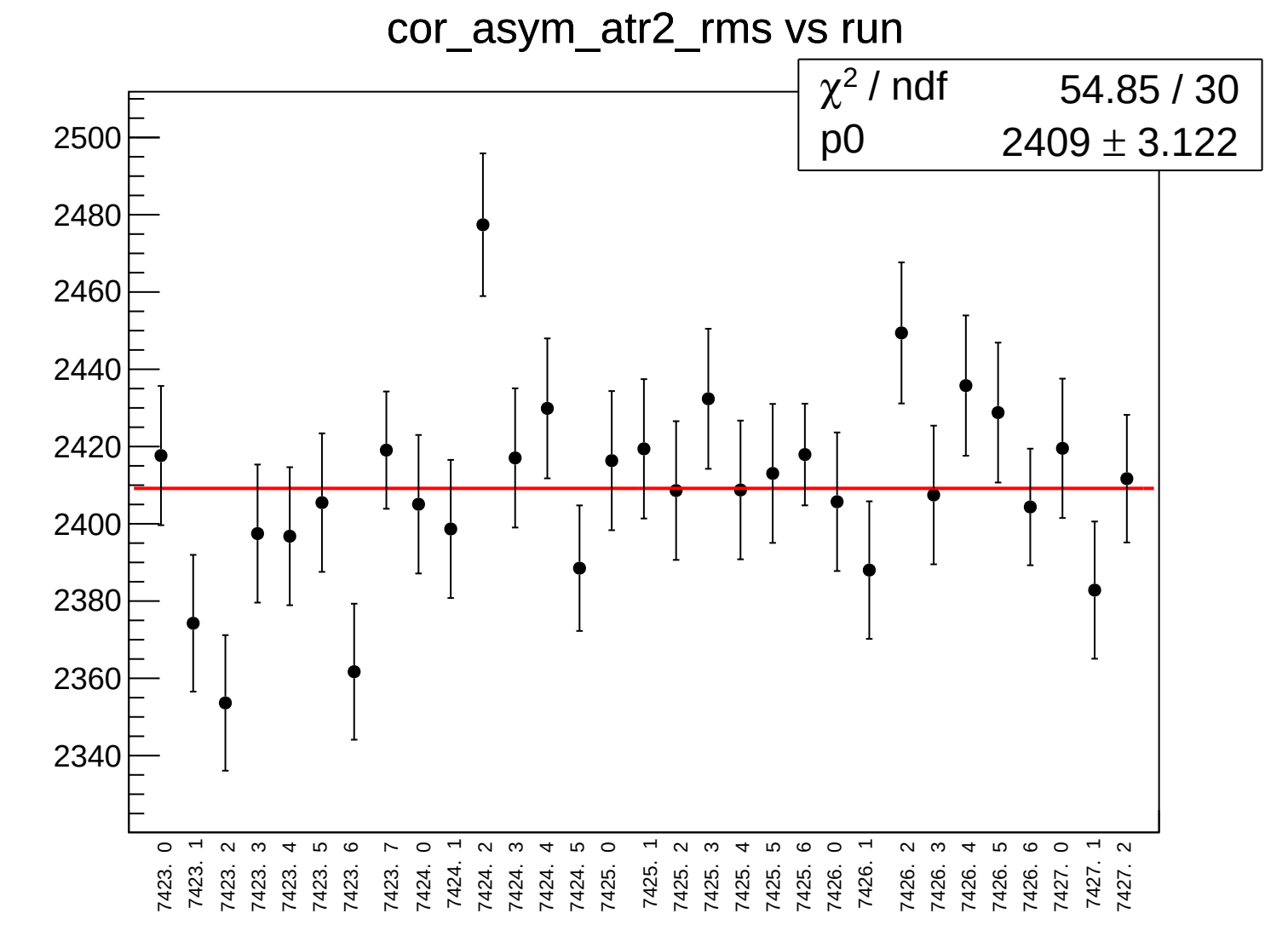

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 22.91 / 30
p0 6797 ± 1.542e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 342.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

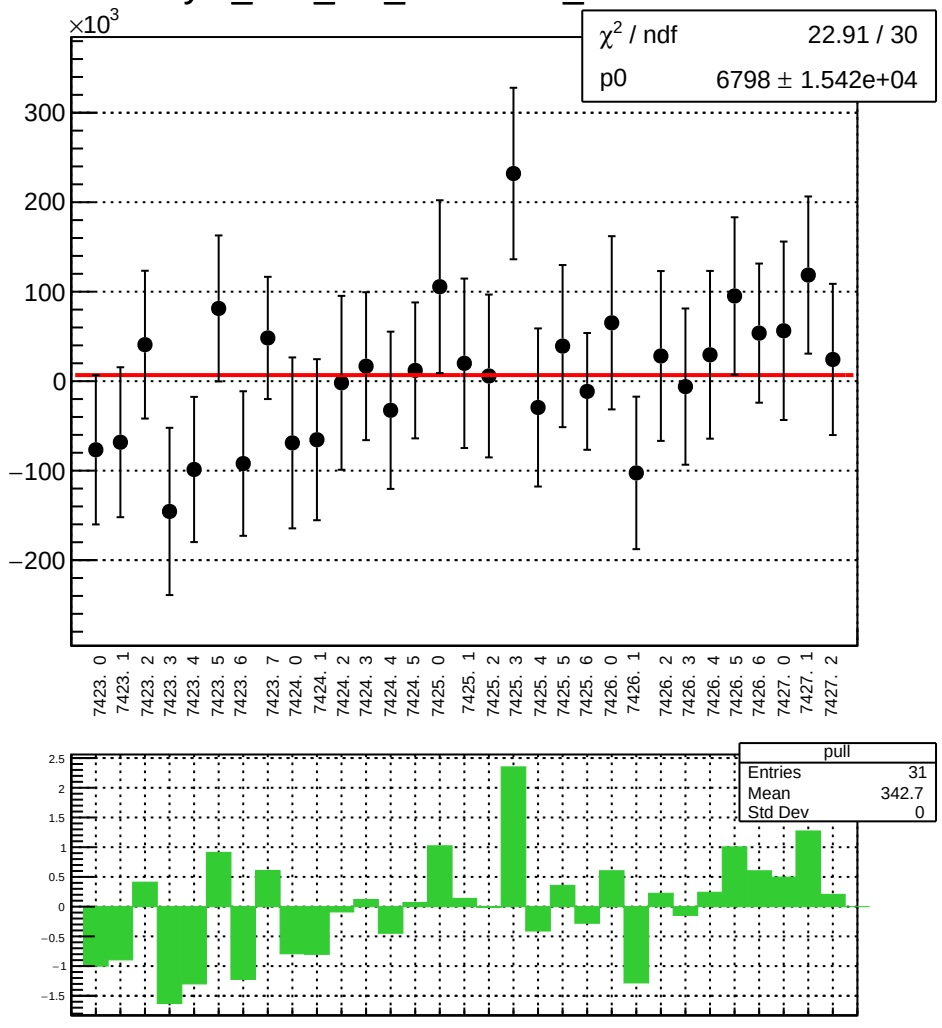

pull1D
Entries 31
Mean 0.01087
Std Dev 0.8597
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

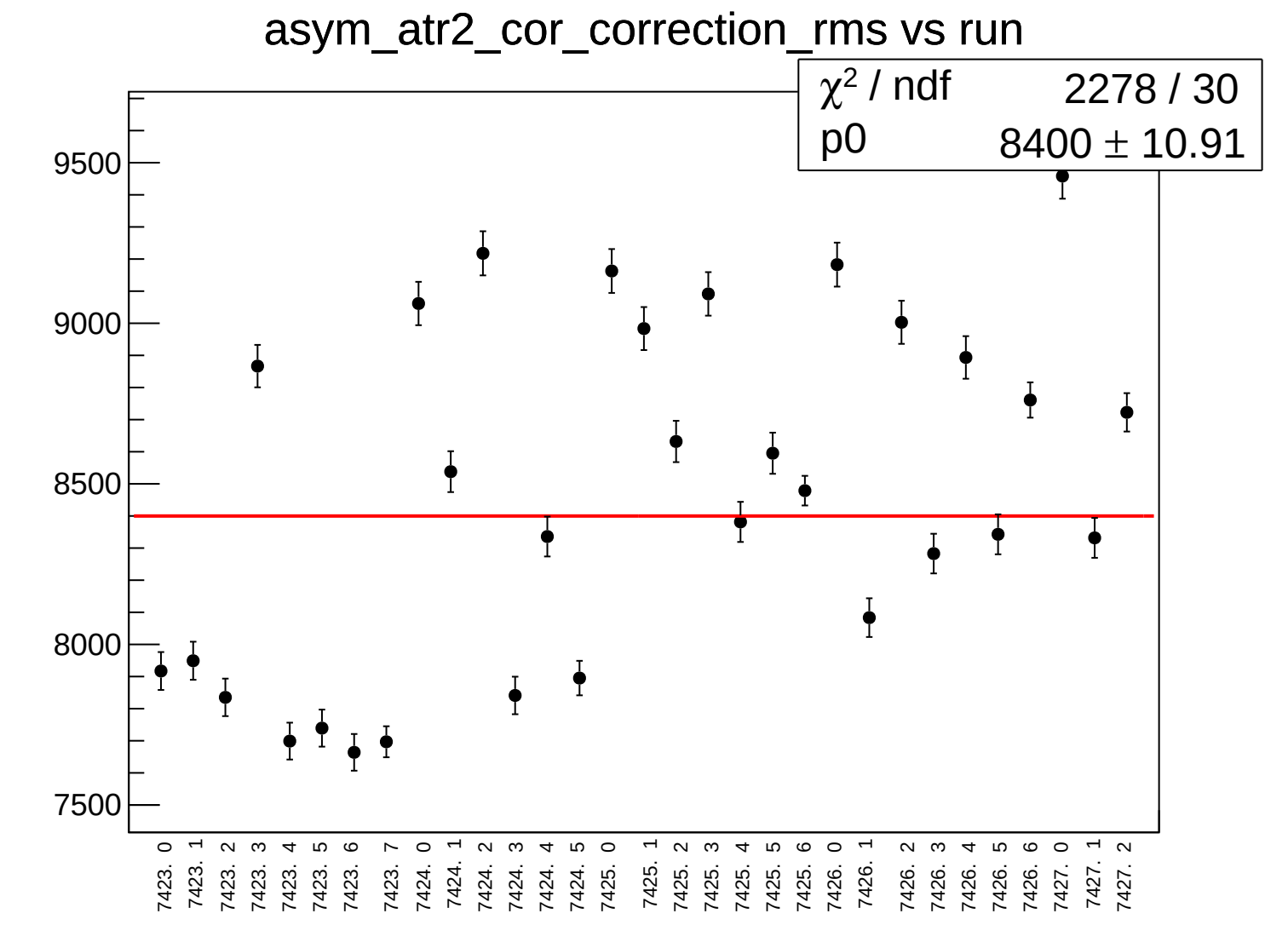

asym_atr2_reg_correction_rms vs run
χ² / ndf 2277 / 30
p0 8400 ± 10.91
9500
9000
8500
8000
7500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

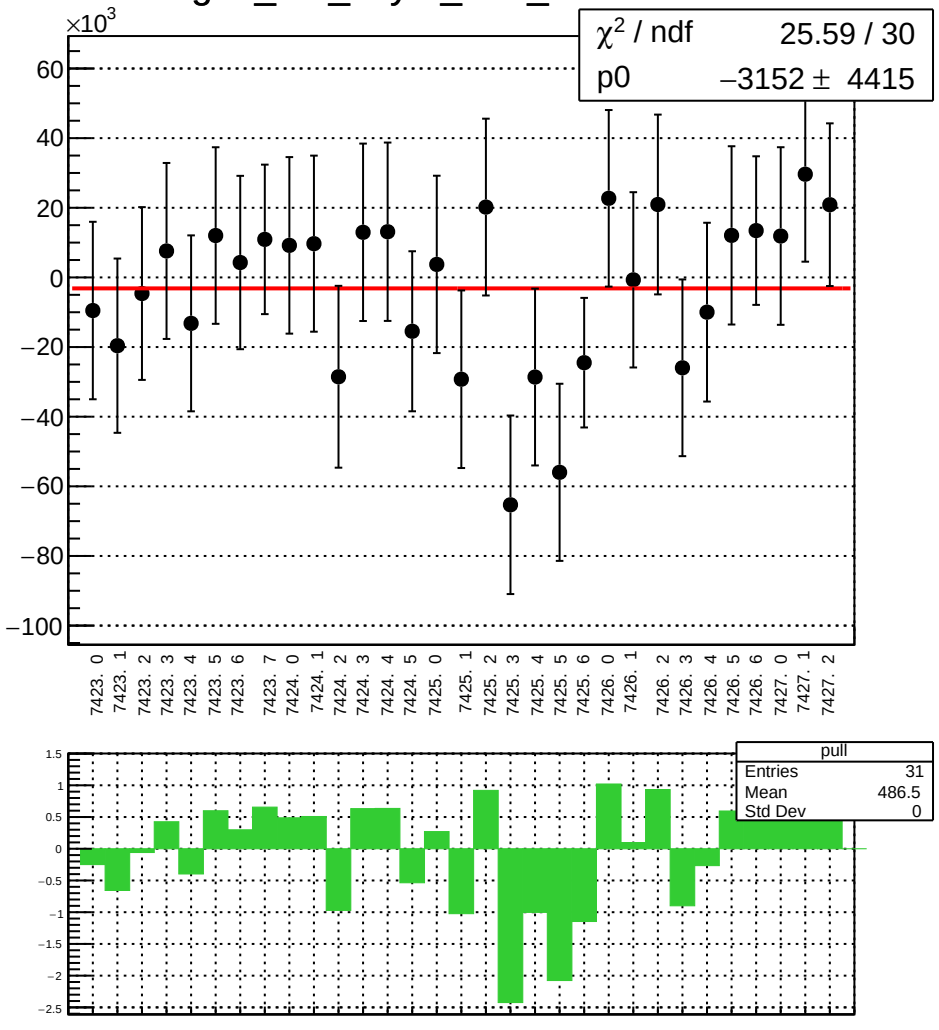

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 25.59 / 30
p0 −3152 ± 4415
60
40
20
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 486.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

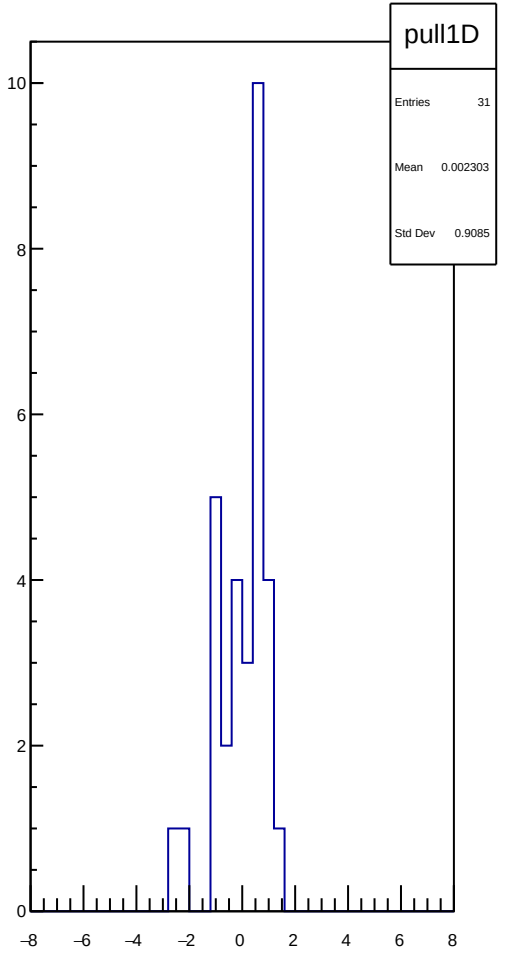

pull1D
Entries 31
Mean 0.002303
Std Dev 0.9085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

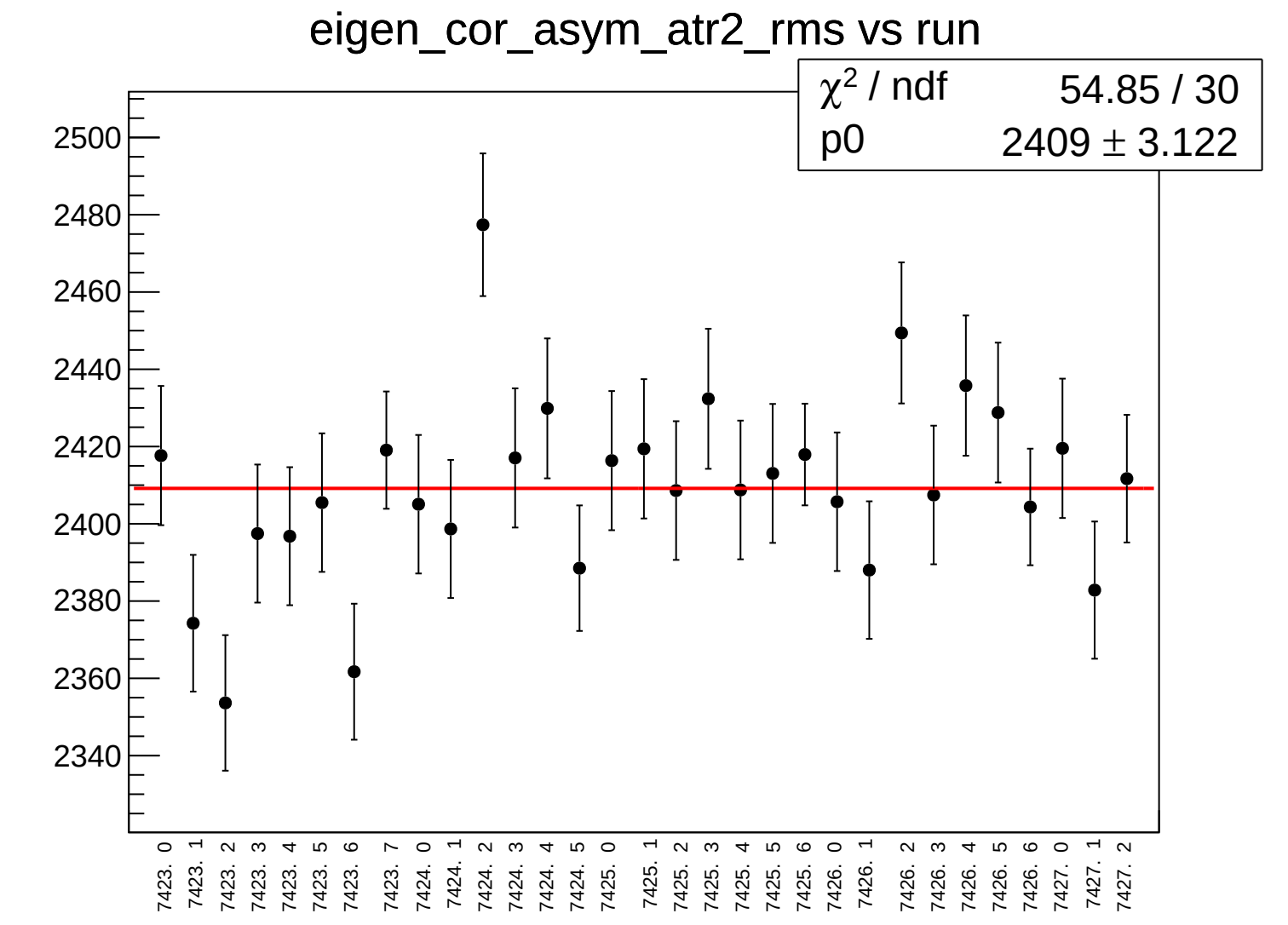

cor_asym_atr2_rms vs run
χ² / ndf 54.85 / 30
p0 2409 ± 3.122
2500
2480
2460
2440
2420
2400
2380
2360
2340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

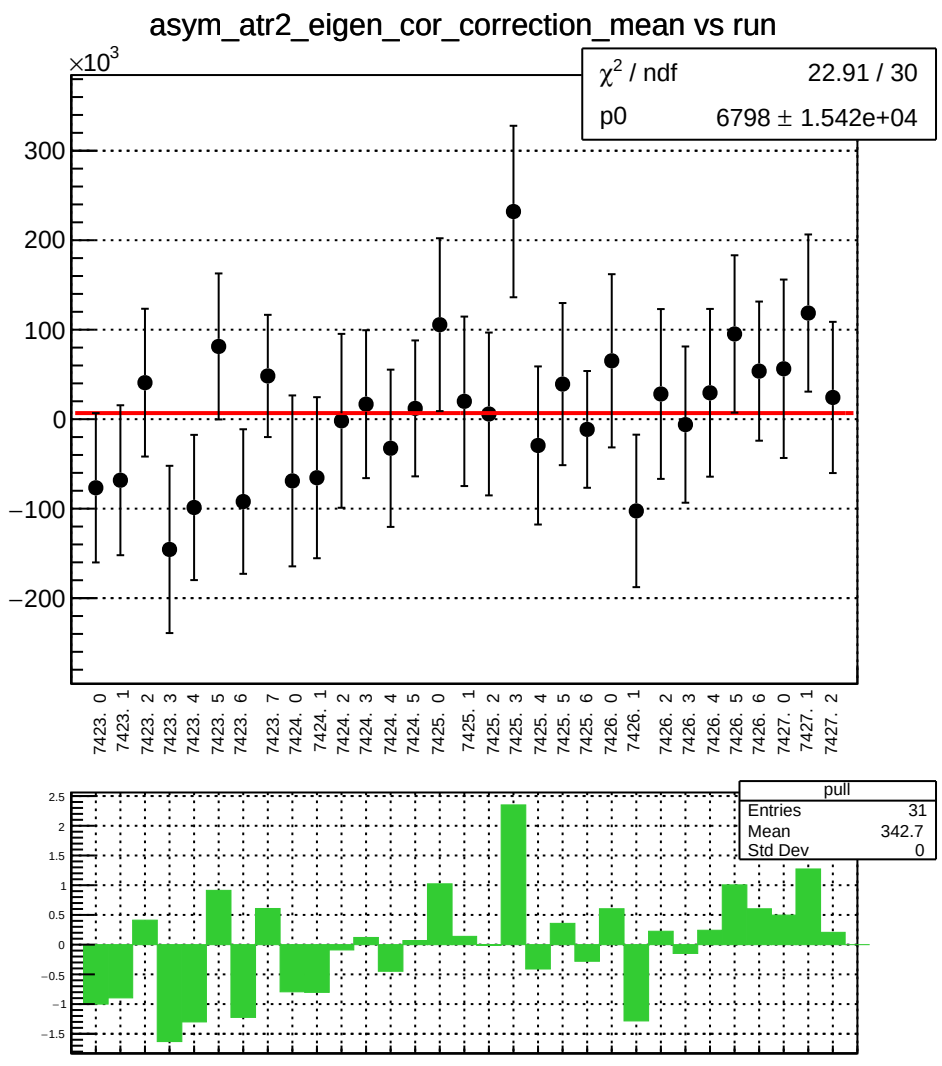

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 22.91 / 30
p0 6798 ± 1.542e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 342.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01087
Std Dev 0.8596
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

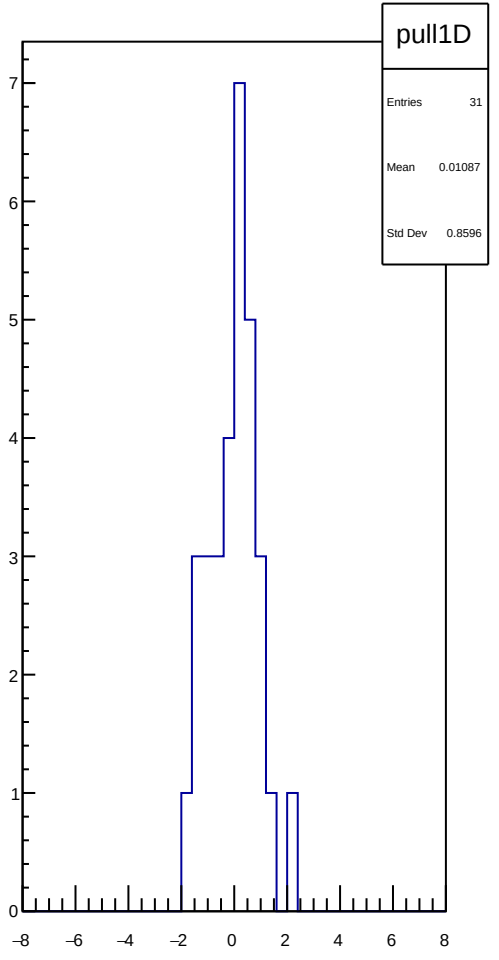

asym_atr2_cor_correction_rms vs run
χ² / ndf 2278 / 30
p0 8400 ± 10.91
9500
9000
8500
8000
7500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

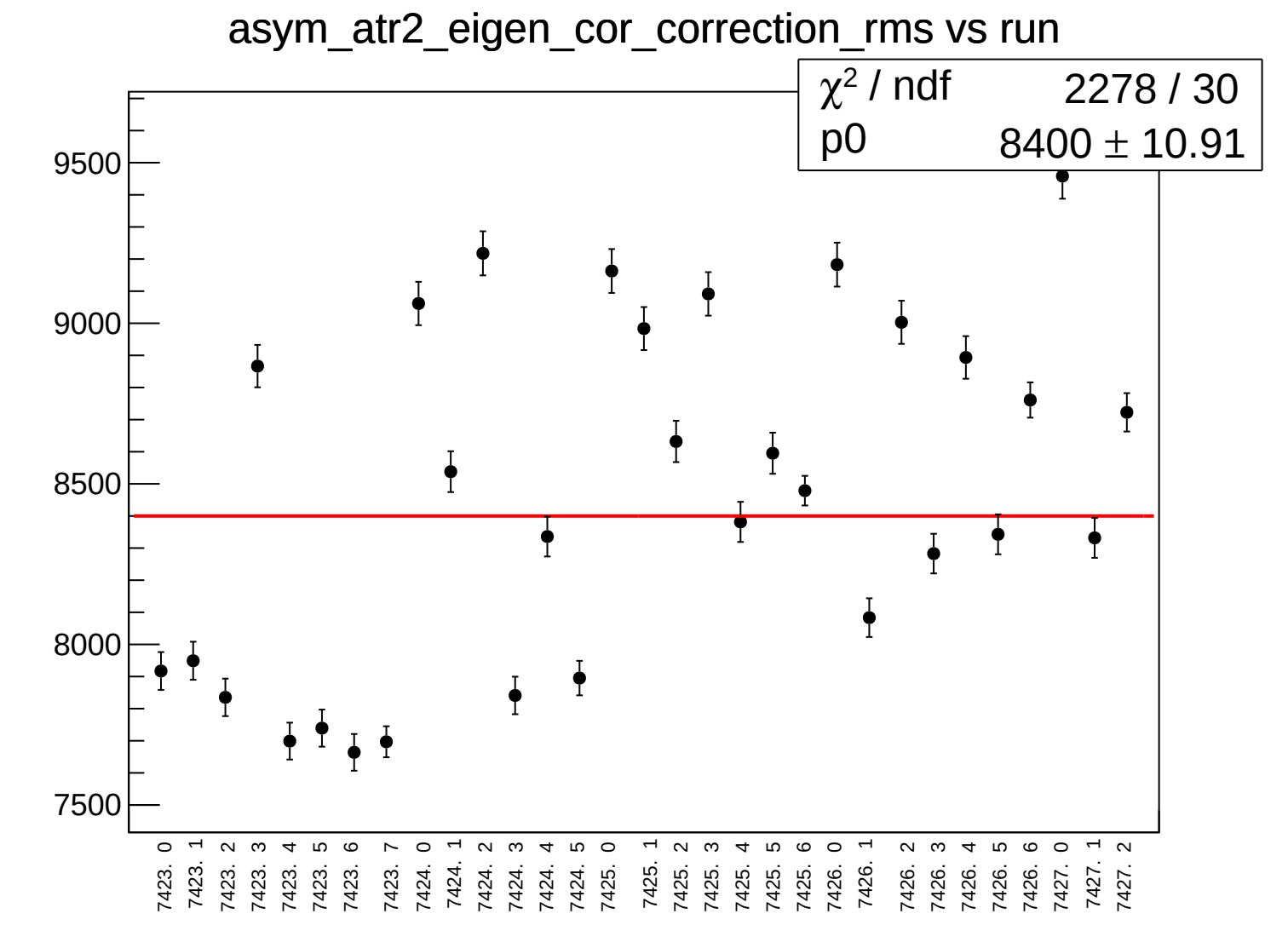

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 25.59 / 30
p0 −3152 ± 4415
60
40
20
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 486.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

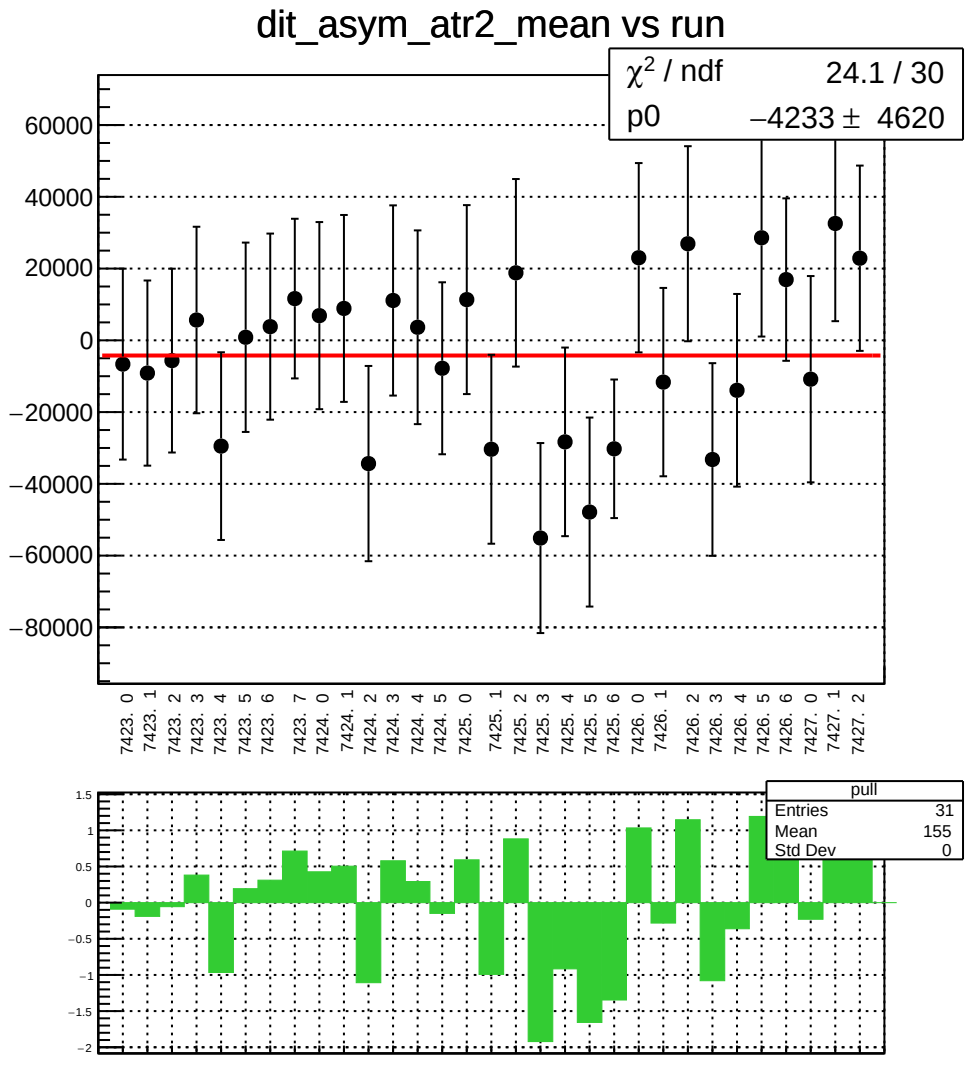

pull1D
Entries 31
Mean 0.002303
Std Dev 0.9085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

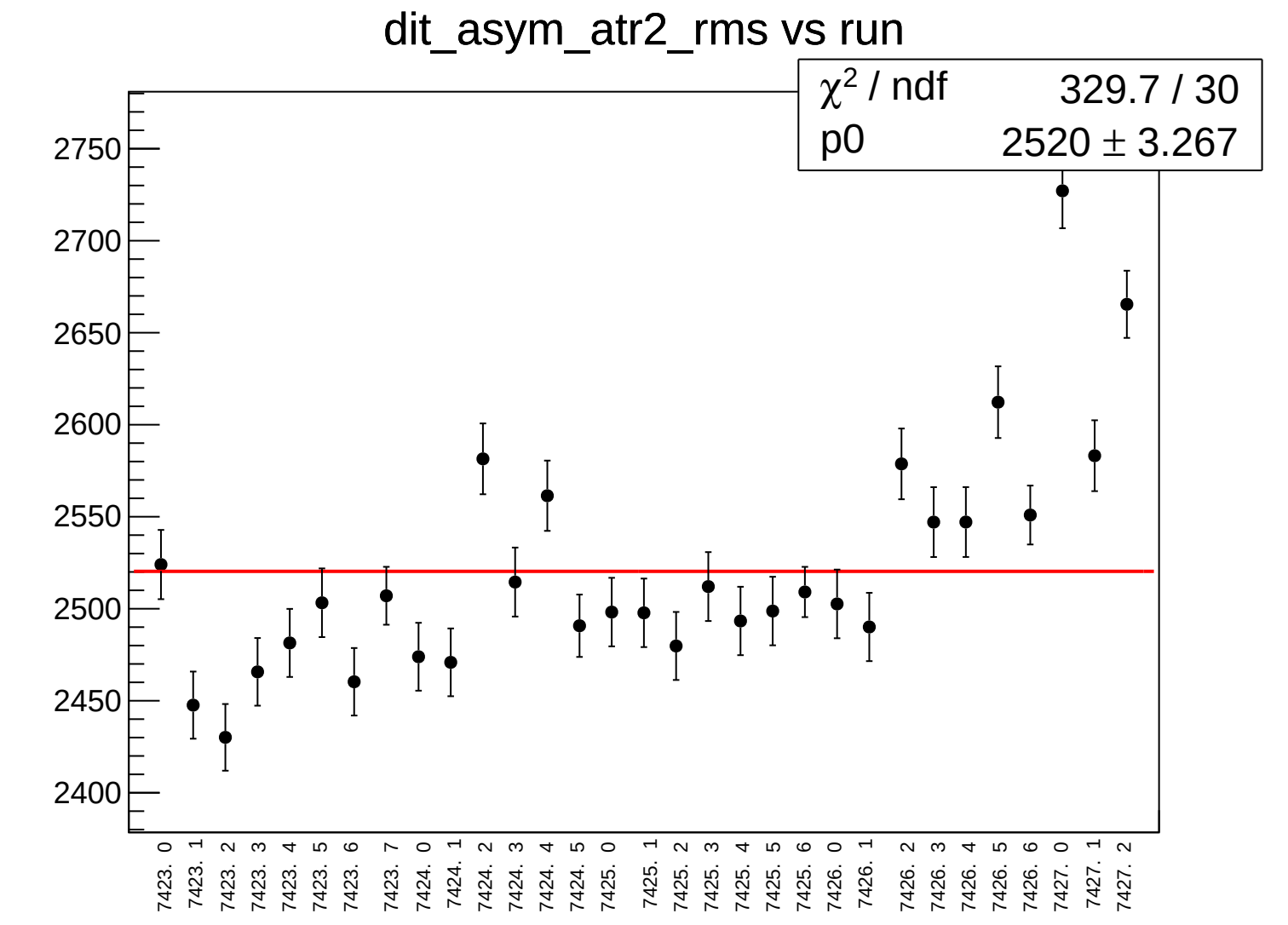

eigen_cor_asym_atr2_rms vs run
χ² / ndf 54.85 / 30
p0 2409 ± 3.122
2500
2480
2460
2440
2420
2400
2380
2360
2340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

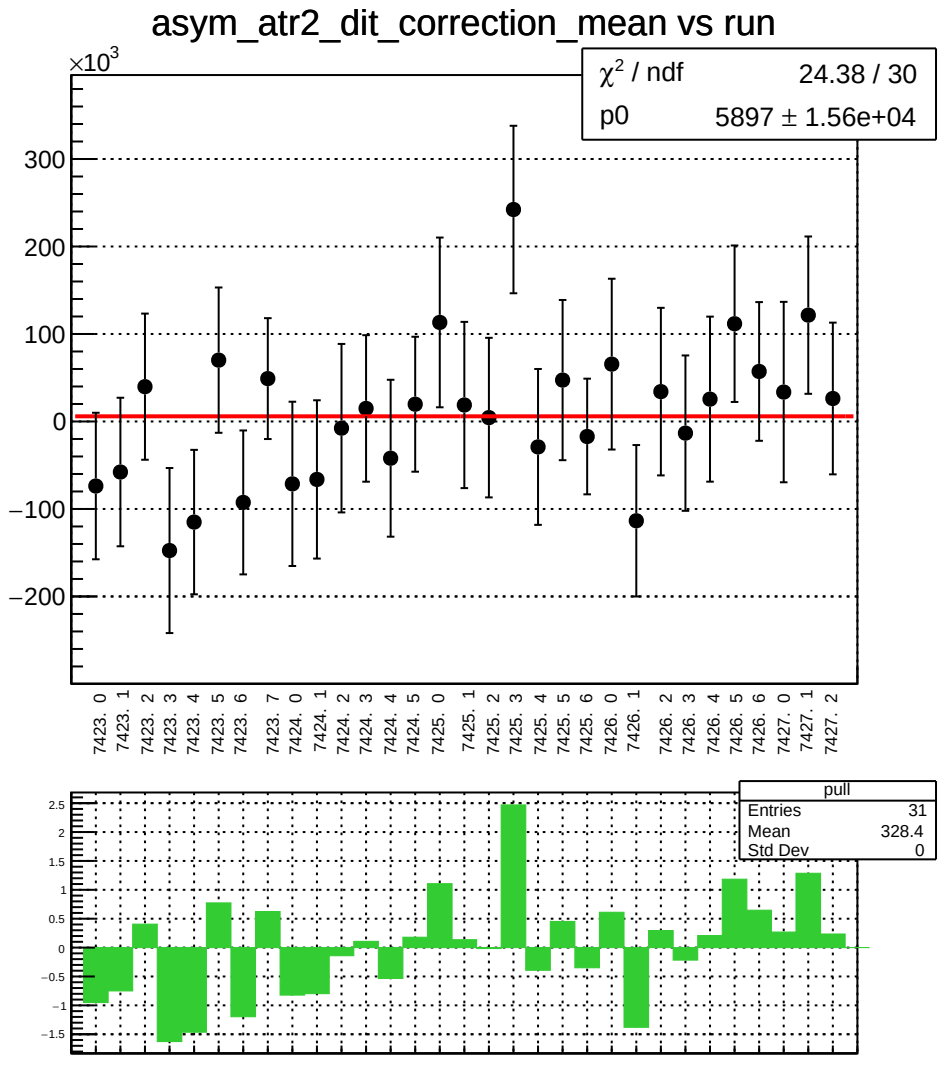

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 22.91 / 30
p0 6798 ± 1.542e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 342.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

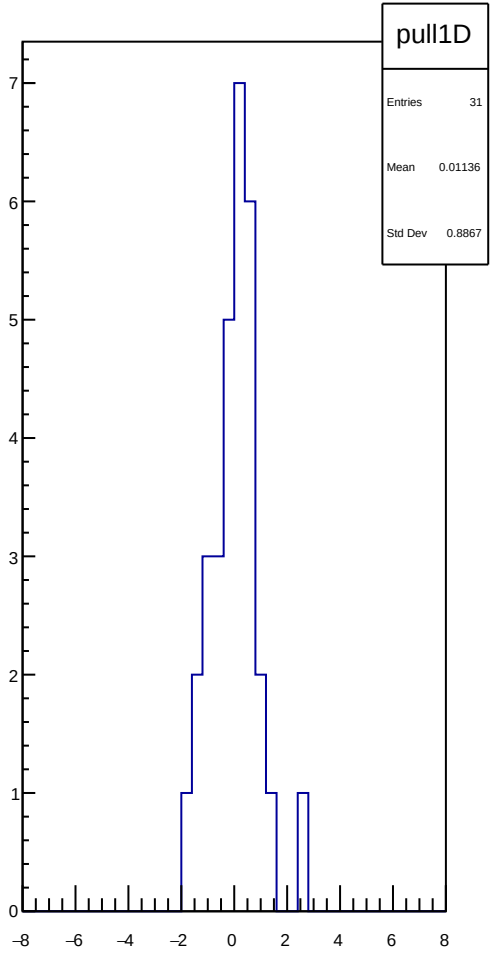

pull1D
Entries 31
Mean 0.01087
Std Dev 0.8596
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

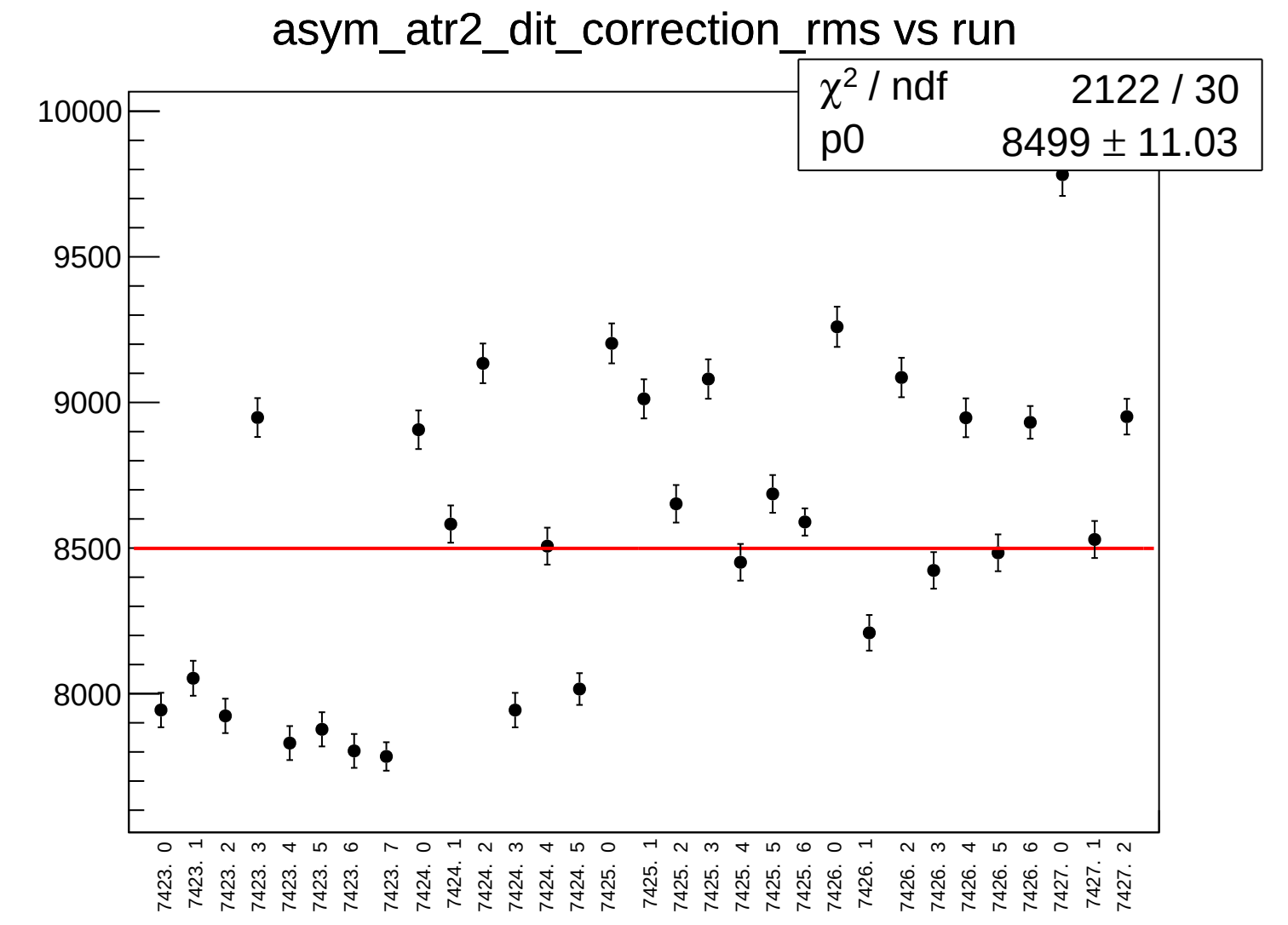

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 2278 / 30
p0 8400 ± 10.91
9500
9000
8500
8000
7500
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

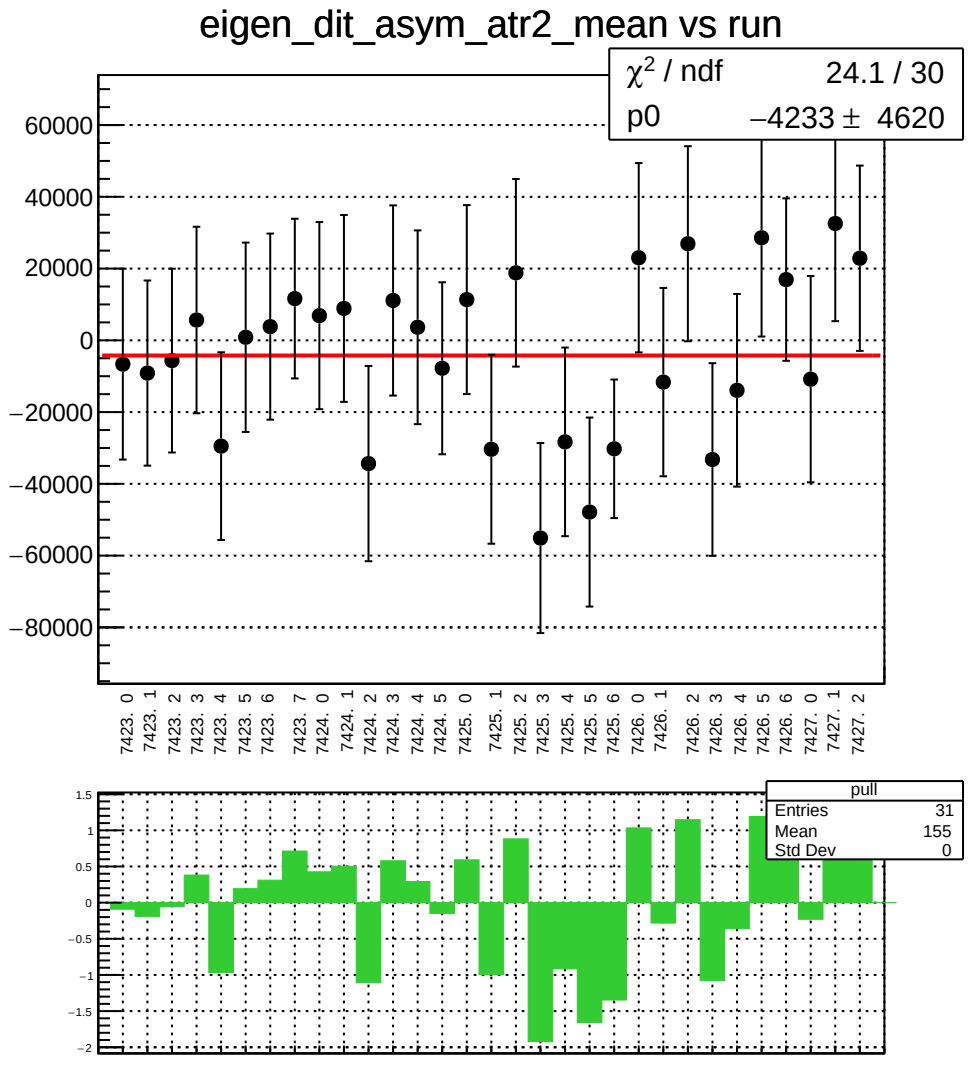

dit_asym_atr2_mean vs run
χ² / ndf 24.1 / 30
p0 −4233 ± 4620
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 155
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.007728
Std Dev 0.8817
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

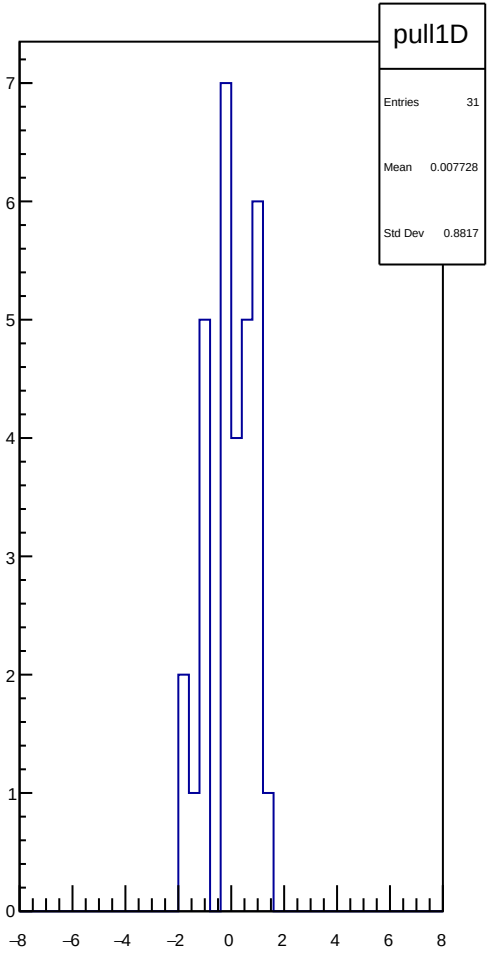

dit_asym_atr2_rms vs run
χ² / ndf 329.7 / 30
p0 2520 ± 3.267
2750
2700
2650
2600
2550
2500
2450
2400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

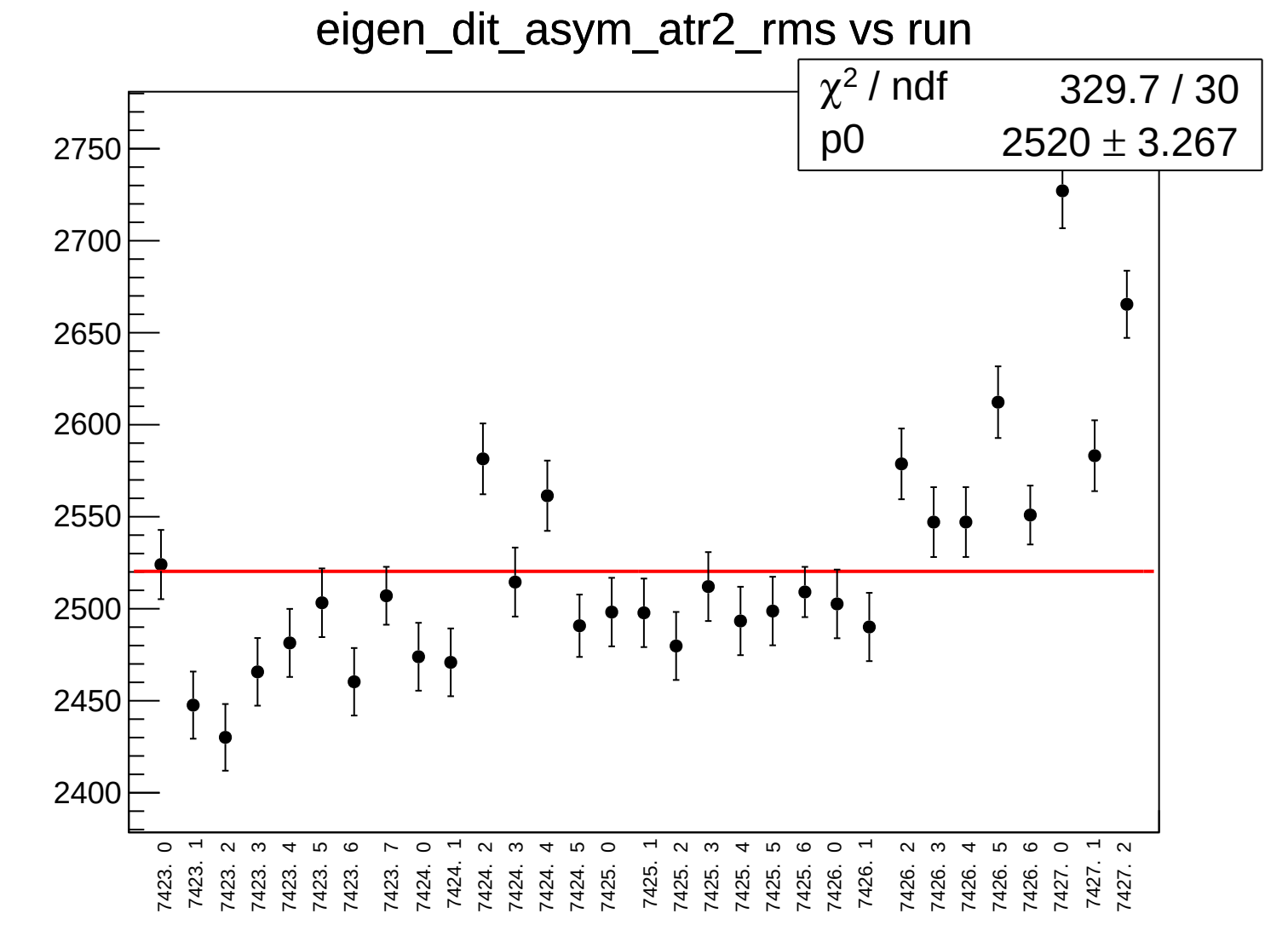

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 24.38 / 30
p0 5897 ± 1.56e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 328.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

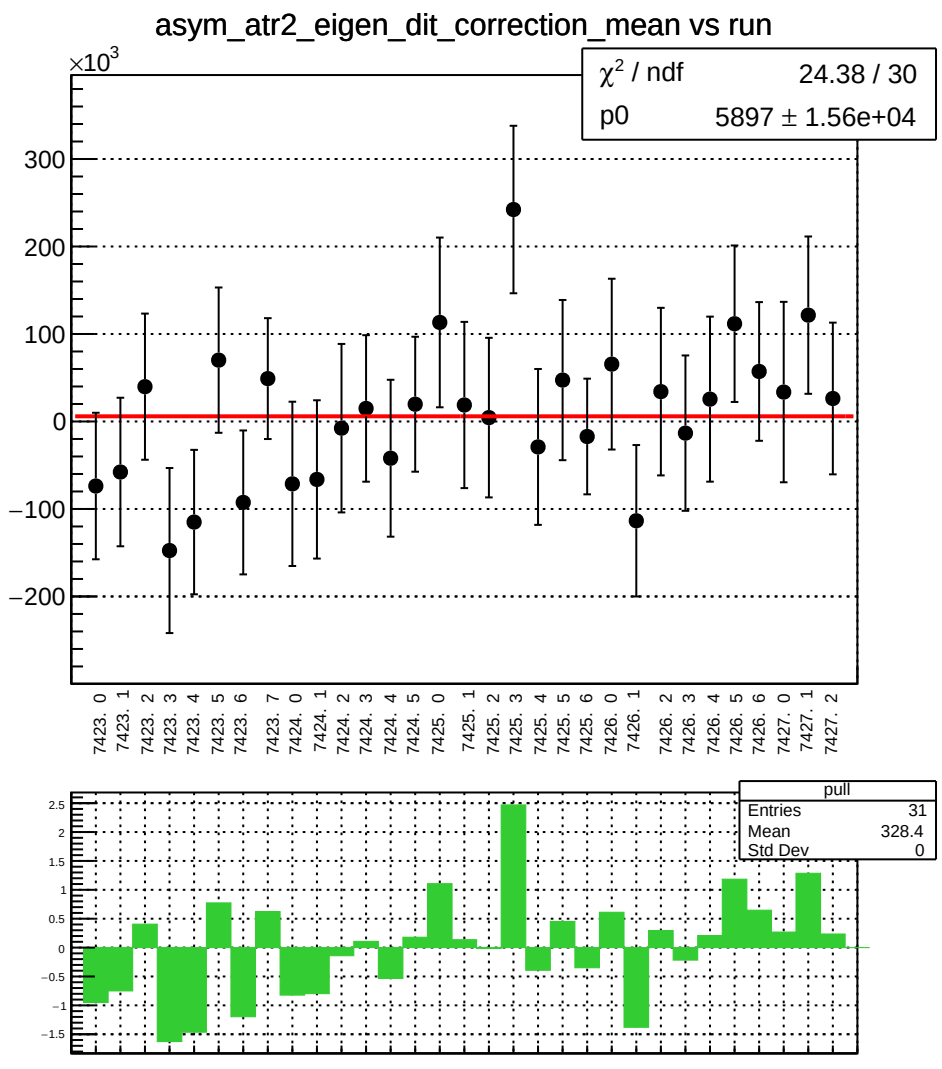

pull1D
Entries 31
Mean 0.01136
Std Dev 0.8867
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

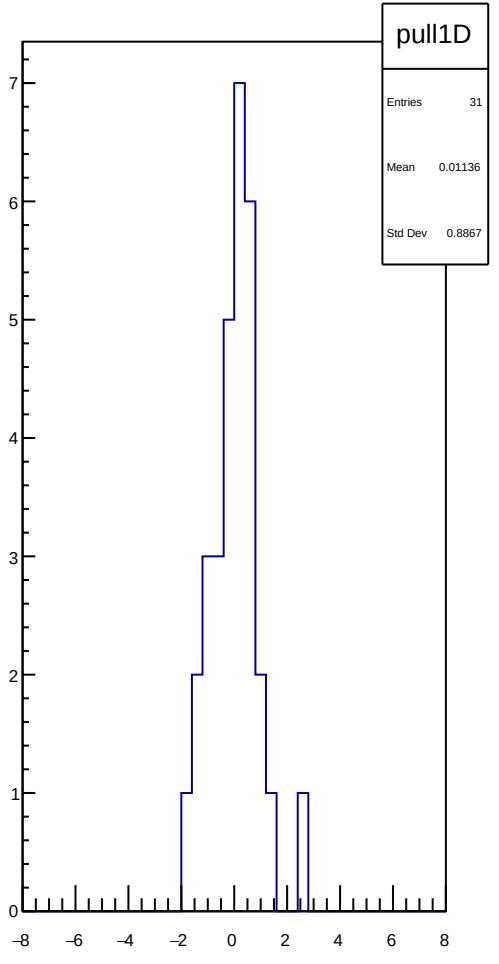

asym_atr2_dit_correction_rms vs run
χ² / ndf 2122 / 30
p0 8499 ± 11.03
10000
9500
9000
8500
8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

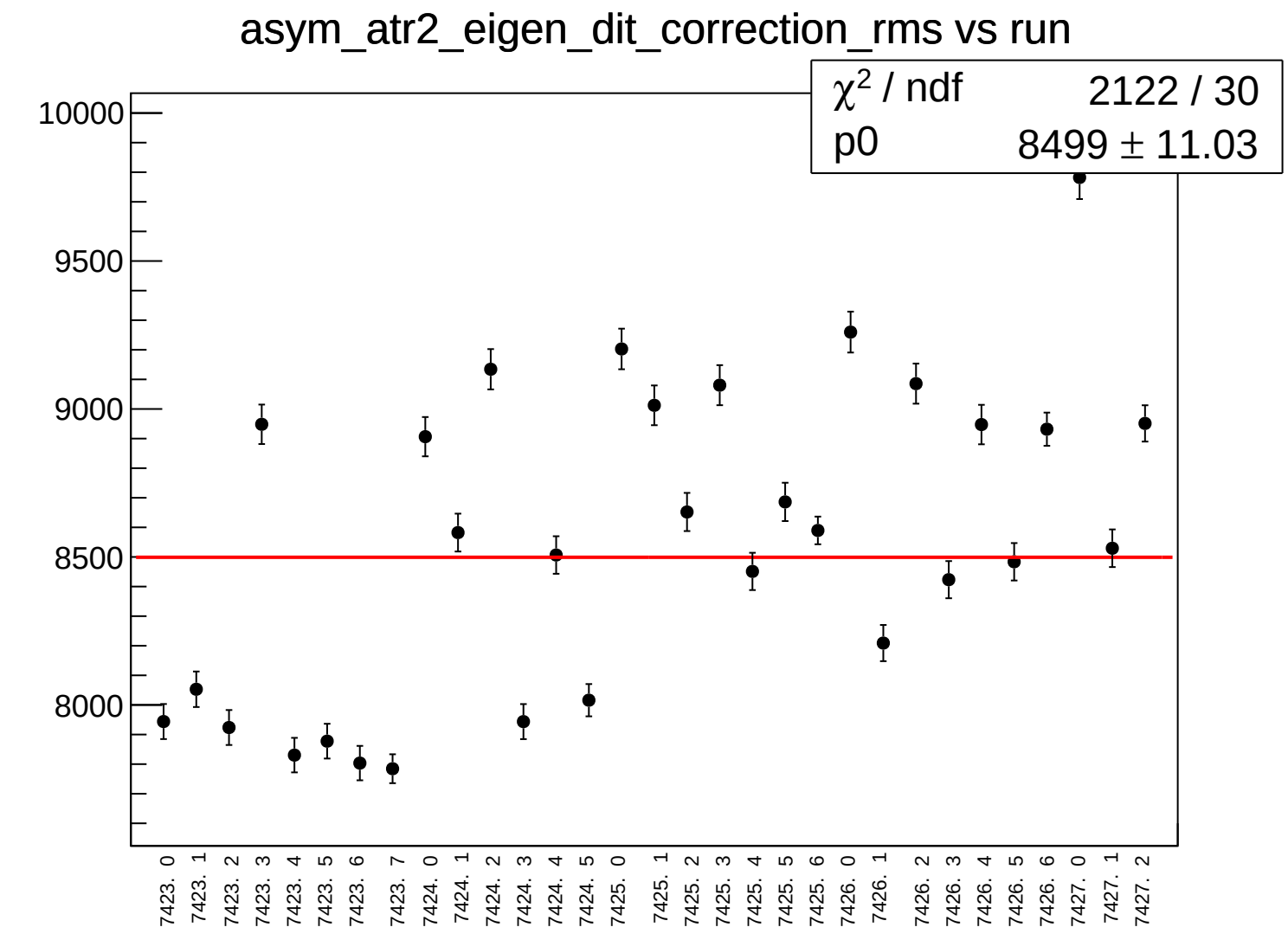

eigen_dit_asym_atr2_mean vs run
χ² / ndf 24.1 / 30
p0 −4233 ± 4620
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 155
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

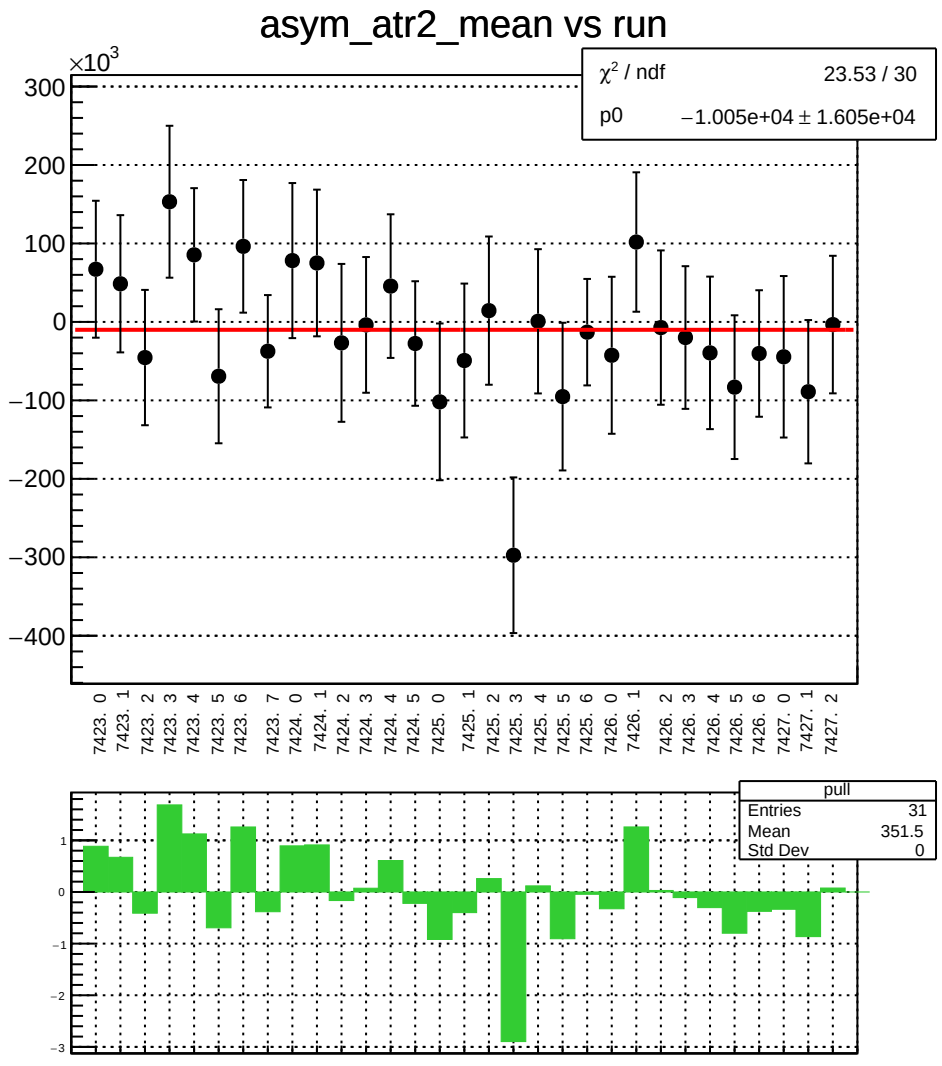

pull1D
Entries 31
Mean 0.007728
Std Dev 0.8817
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

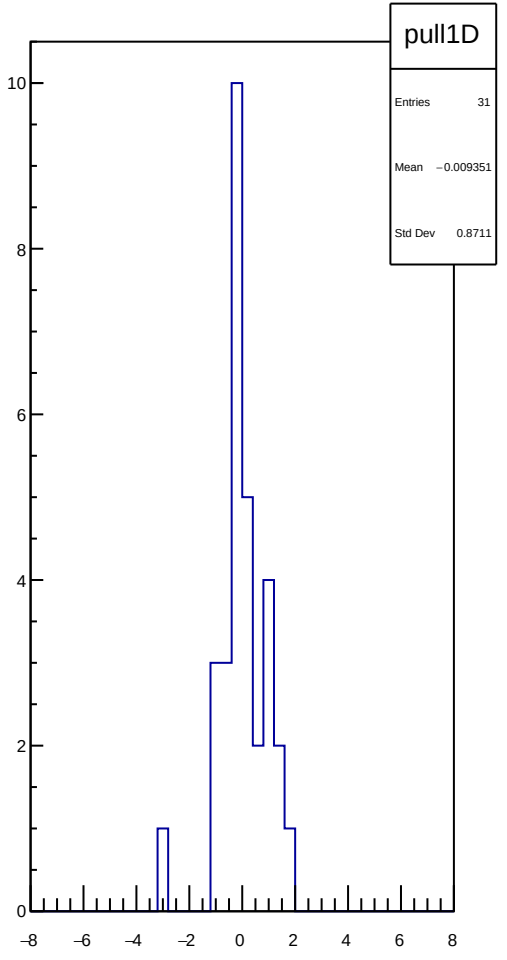

eigen_dit_asym_atr2_rms vs run
χ² / ndf 329.7 / 30
p0 2520 ± 3.267
2750
2700
2650
2600
2550
2500
2450
2400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

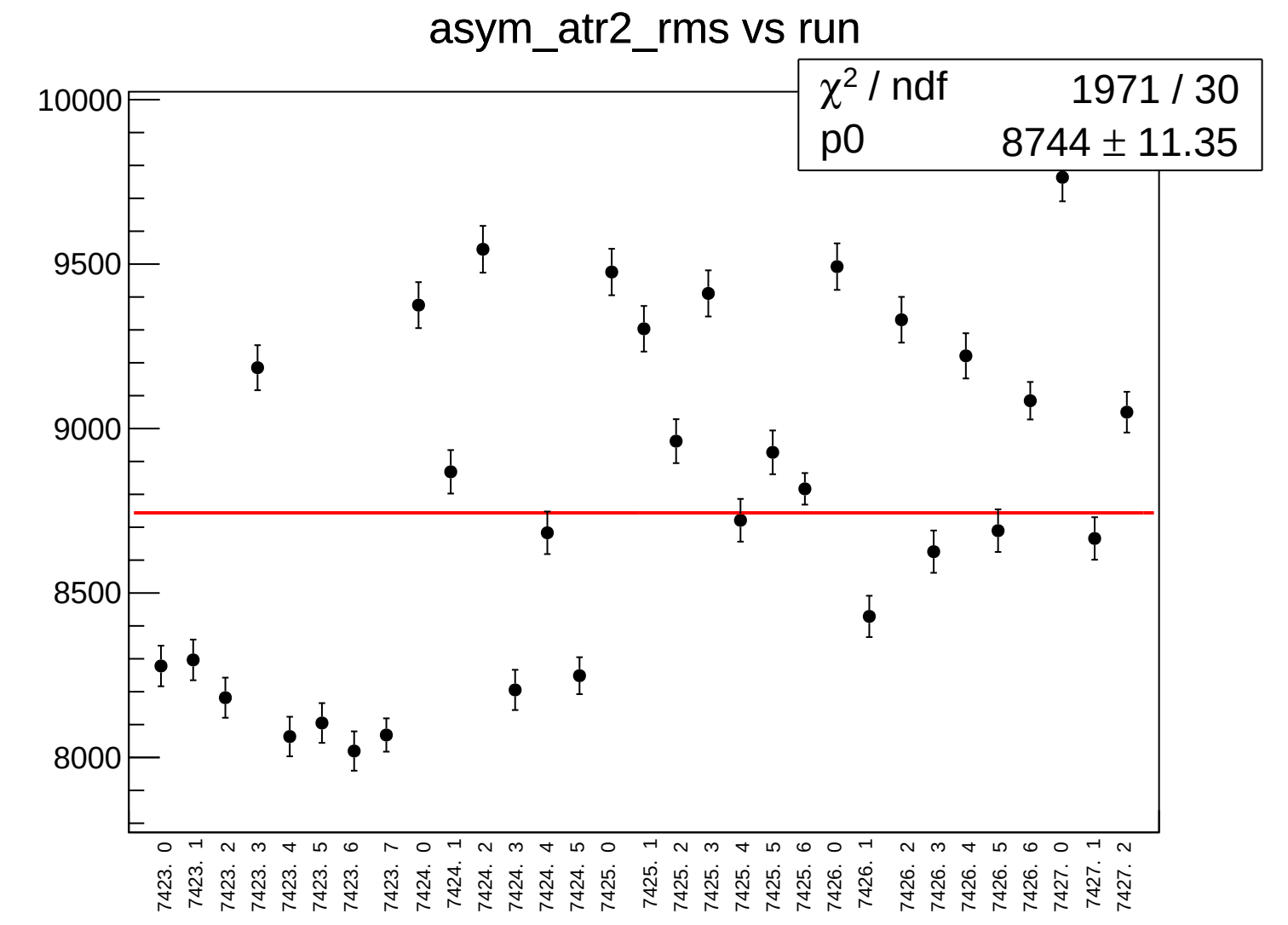

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.38 / 30
p0 5897 ± 1.56e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 328.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

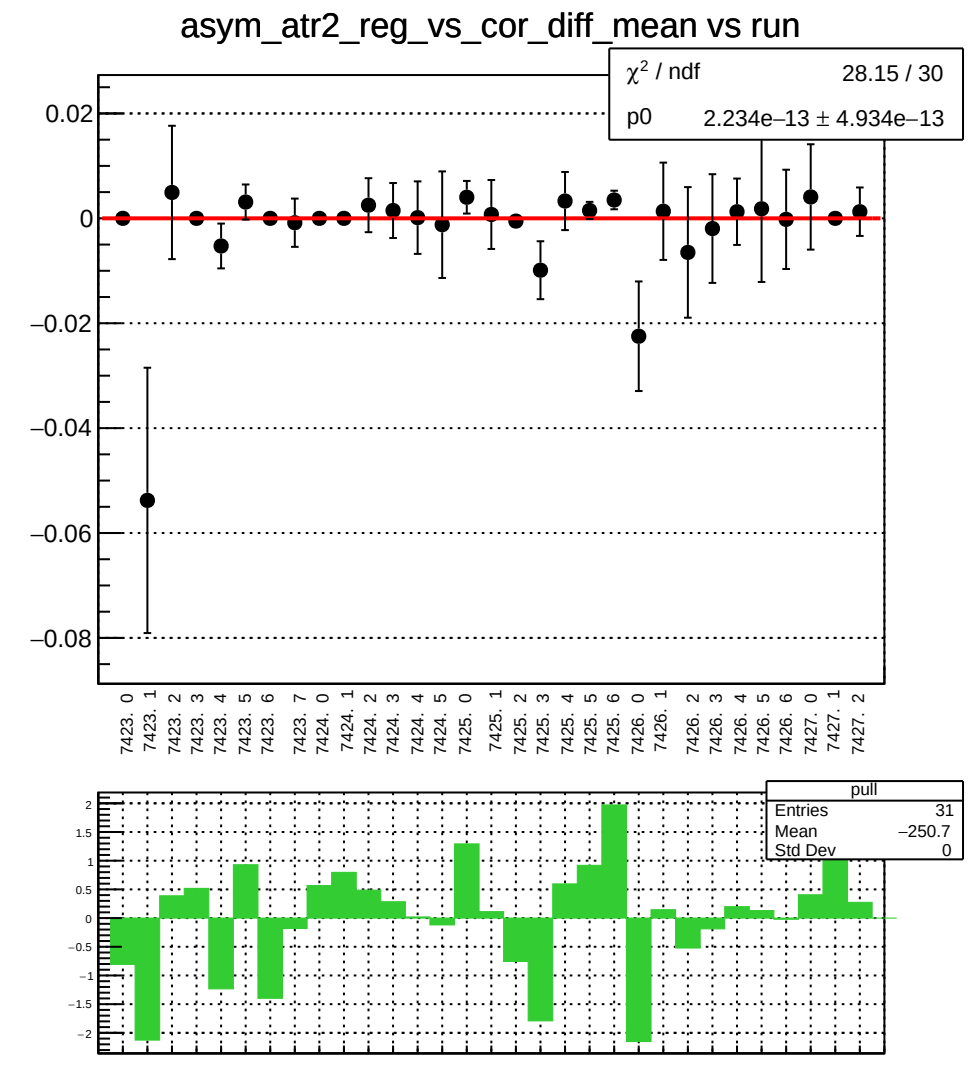

pull1D
Entries 31
Mean 0.01136
Std Dev 0.8867
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

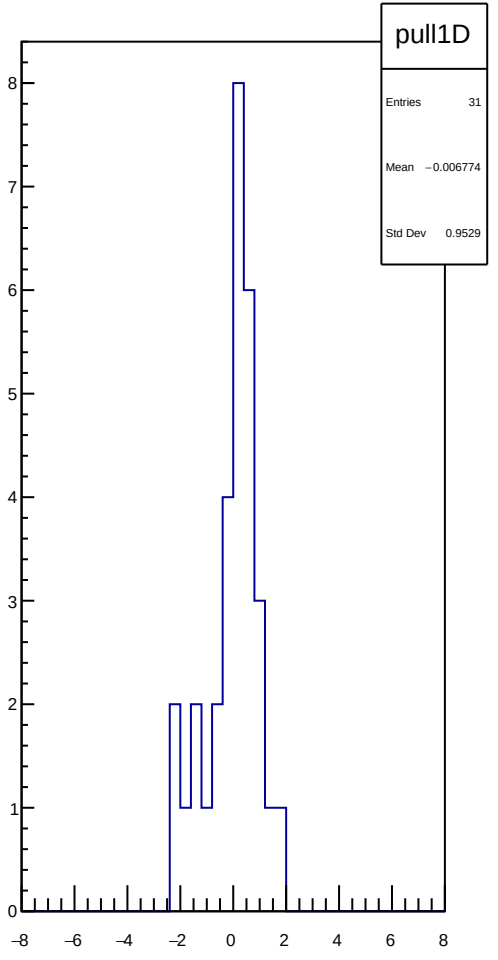

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 2122 / 30
p0 8499 ± 11.03
10000
9500
9000
8500
8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

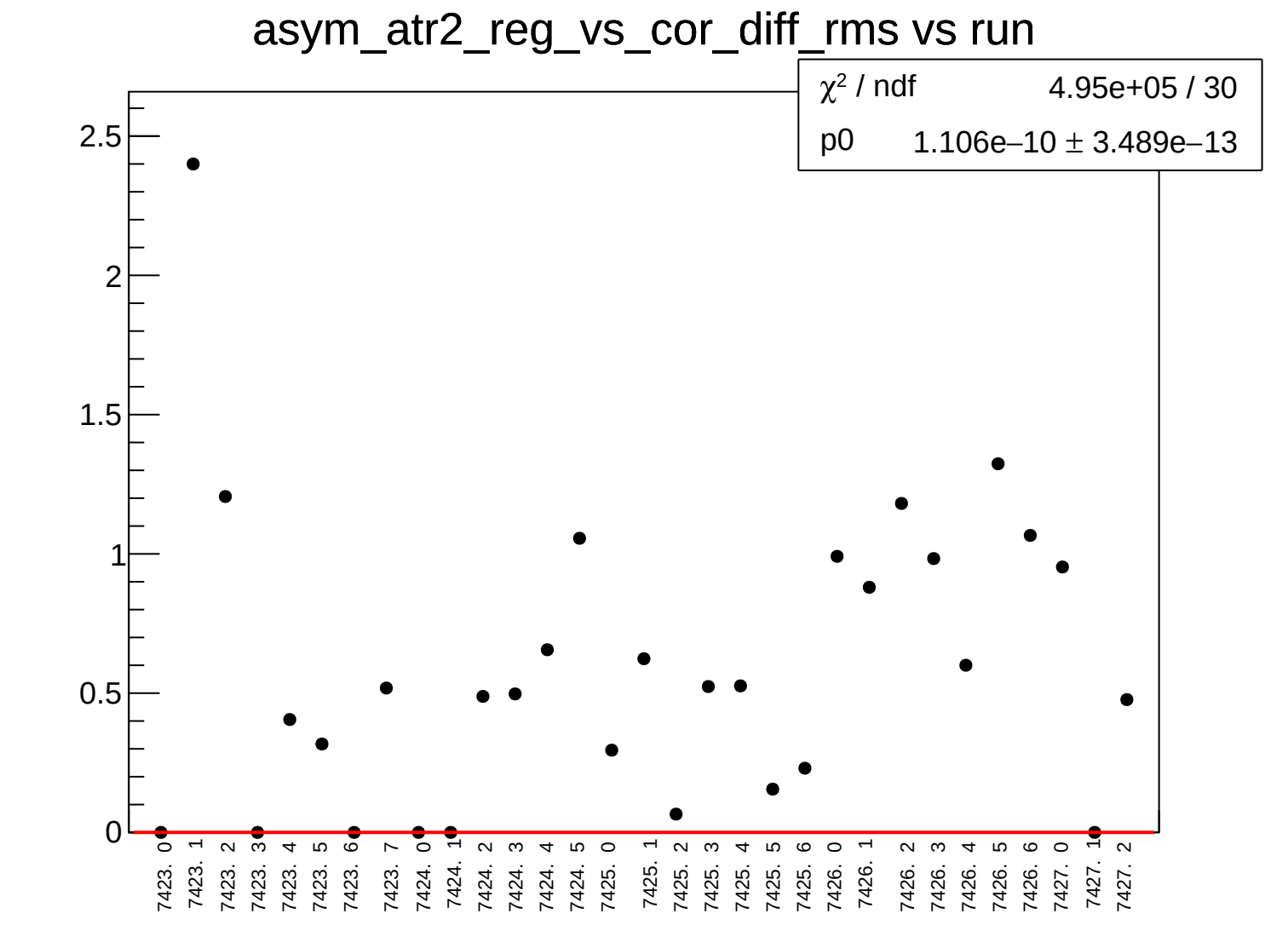

asym_atr2_mean vs run
×10^3
χ² / ndf 23.53 / 30
p0 −1.005e+04 ± 1.605e+04
300
200
100
0
−100
−200
−300
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 351.5
Std Dev 0
1
0
−1
−2
−3

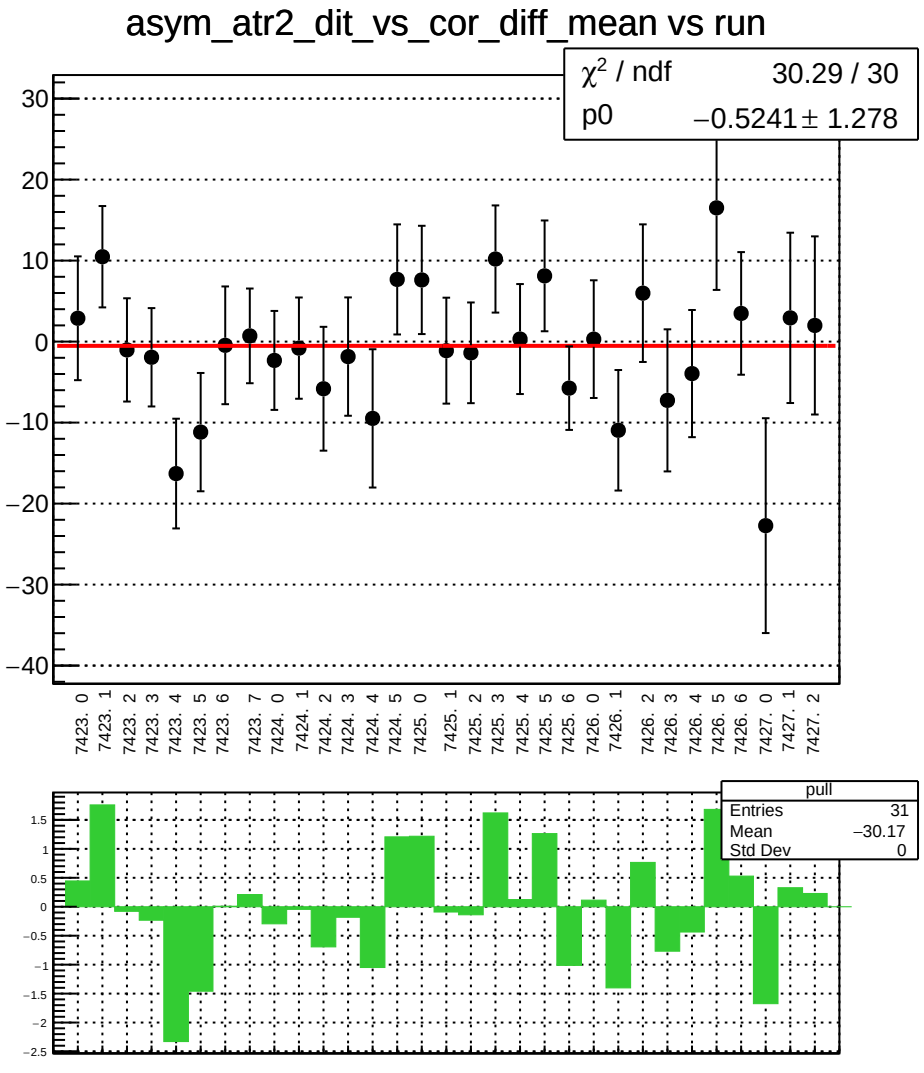

pull1D
Entries 31
Mean −0.009351
Std Dev 0.8711
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

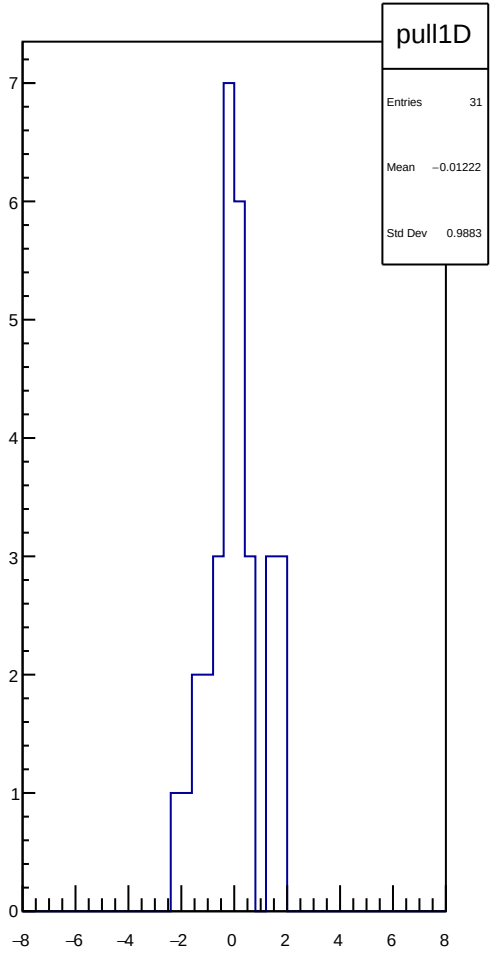

asym_atr2_rms vs run
χ² / ndf 1971 / 30
p0 8744 ± 11.35
10000
9500
9000
8500
8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

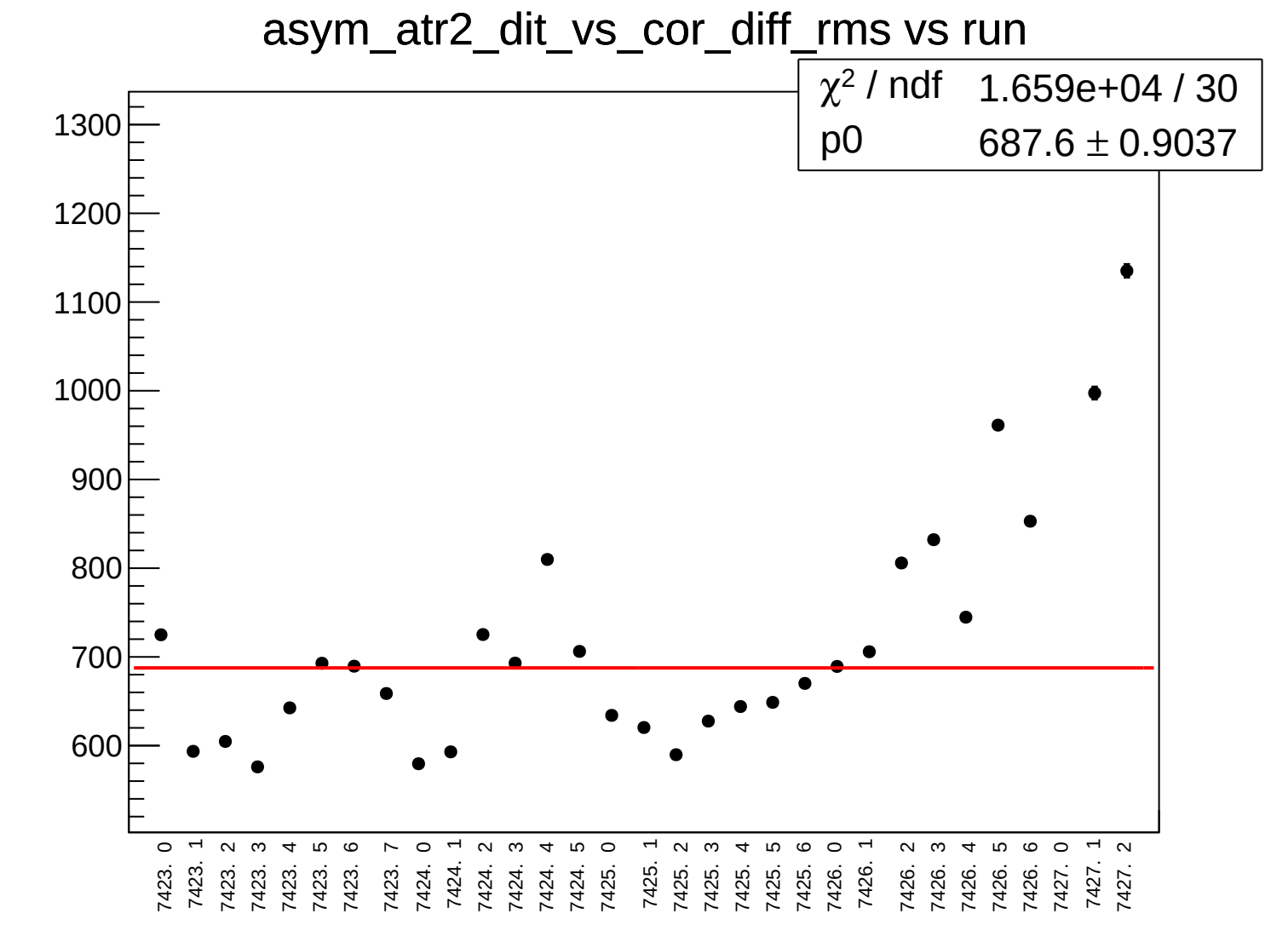

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 28.15 / 30
p0 2.234e−13 ± 4.934e−13
0.02
0
−0.02
−0.04
−0.06
−0.08
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −250.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

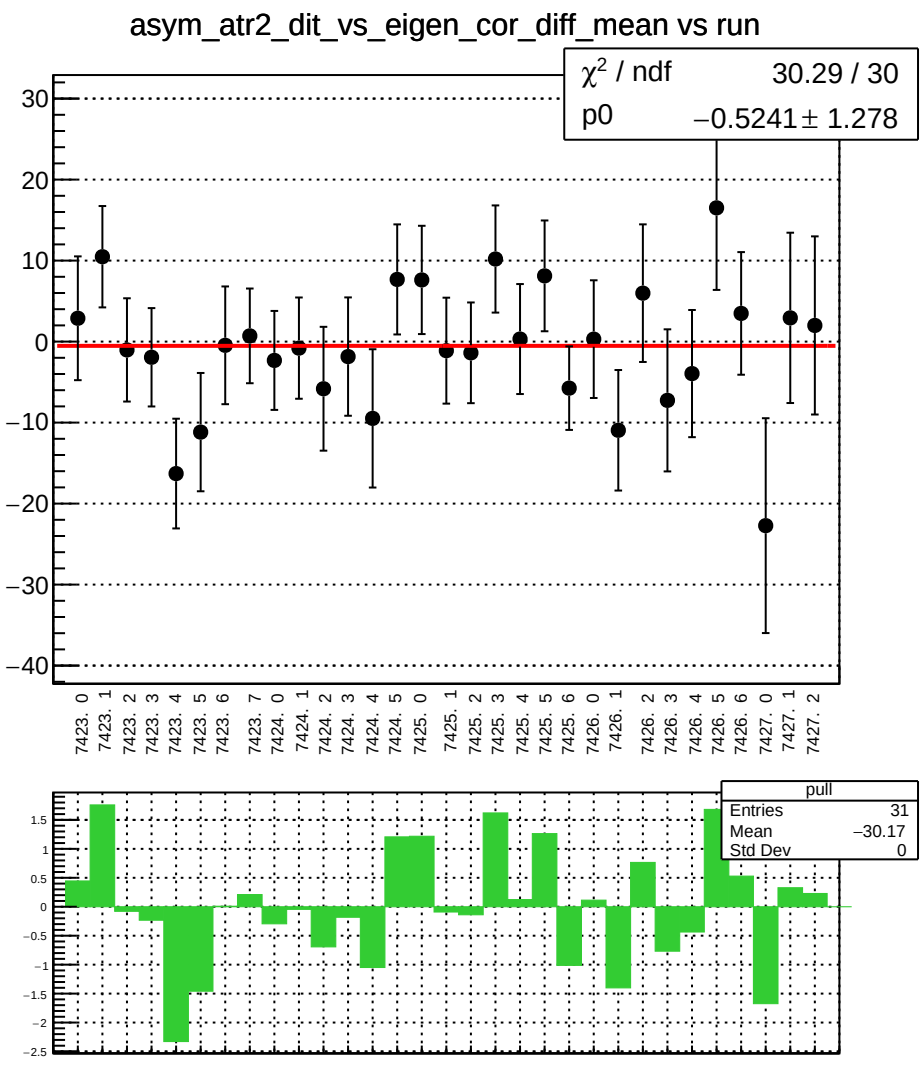

pull1D
Entries 31
Mean −0.006774
Std Dev 0.9529
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

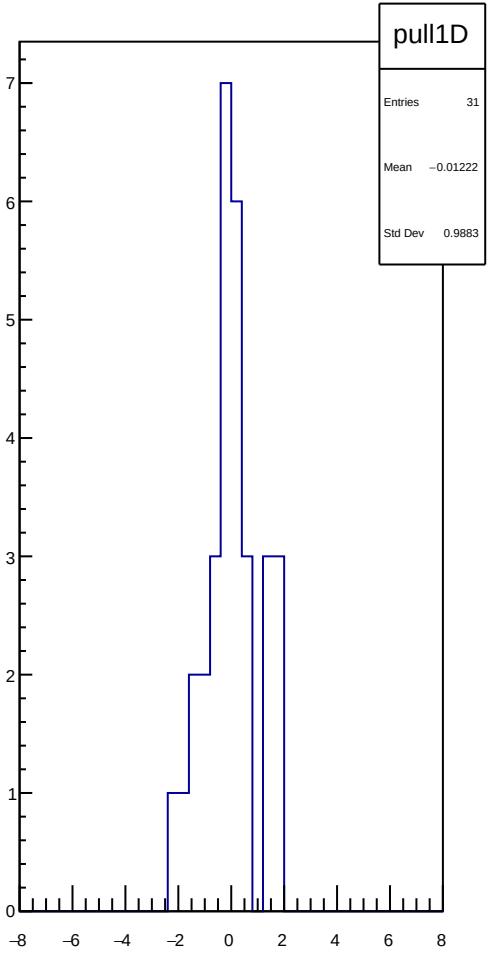

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.95e+05 / 30
p0 1.106e−10 ± 3.489e−13
2.5
2
1.5
1
0.5
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

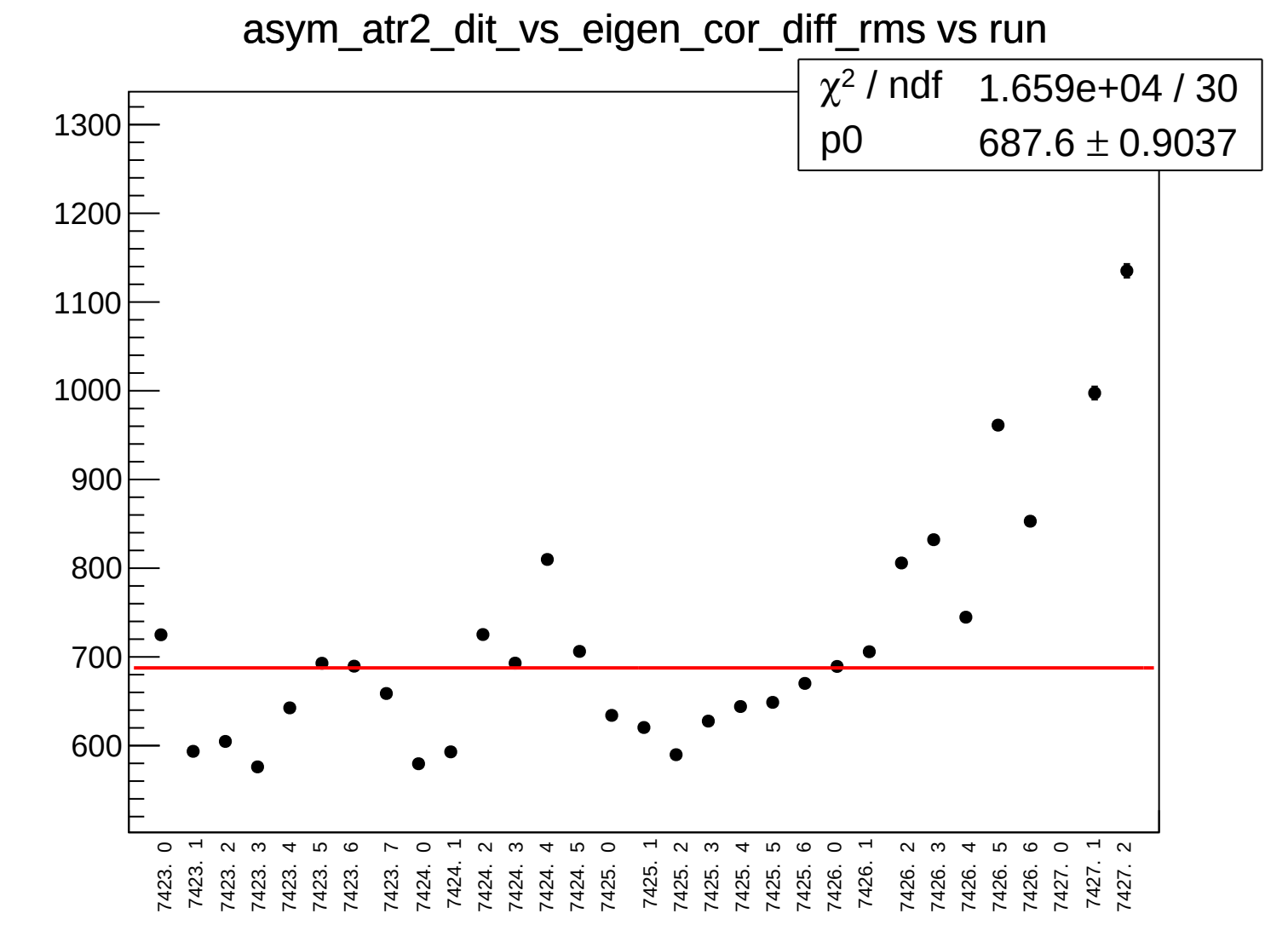

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 30.29 / 30
p0 −0.5241 ± 1.278
pull
Entries 31
Mean −30.17
Std Dev 0

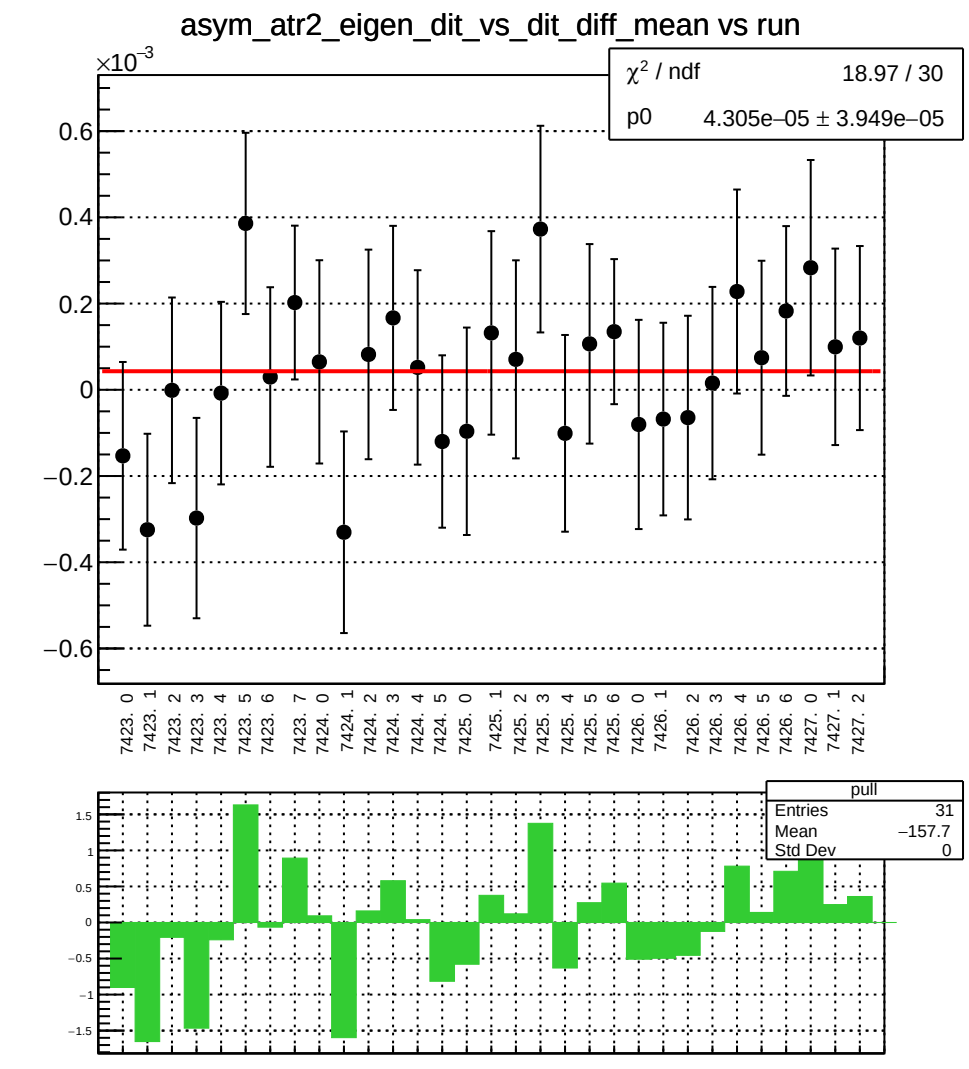

pull1D
Entries 31
Mean −0.01222
Std Dev 0.9883

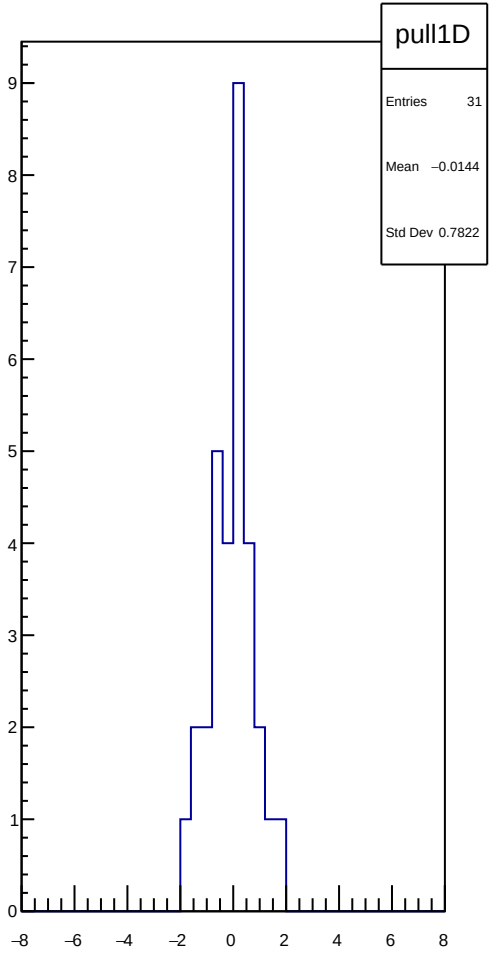

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.659e+04 / 30
p0 687.6 ± 0.9037
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

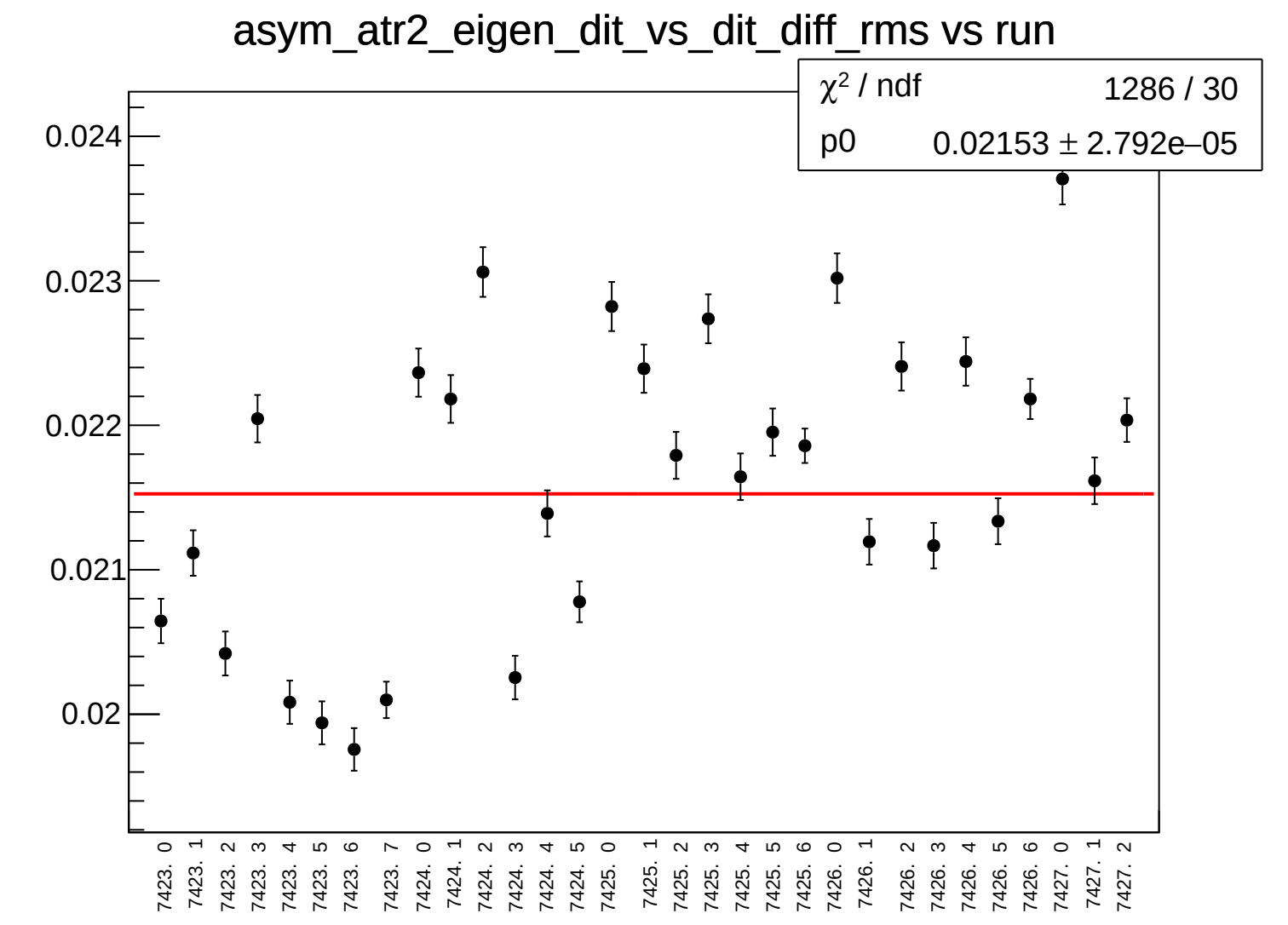

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.29 / 30
p0 −0.5241 ± 1.278
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −30.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

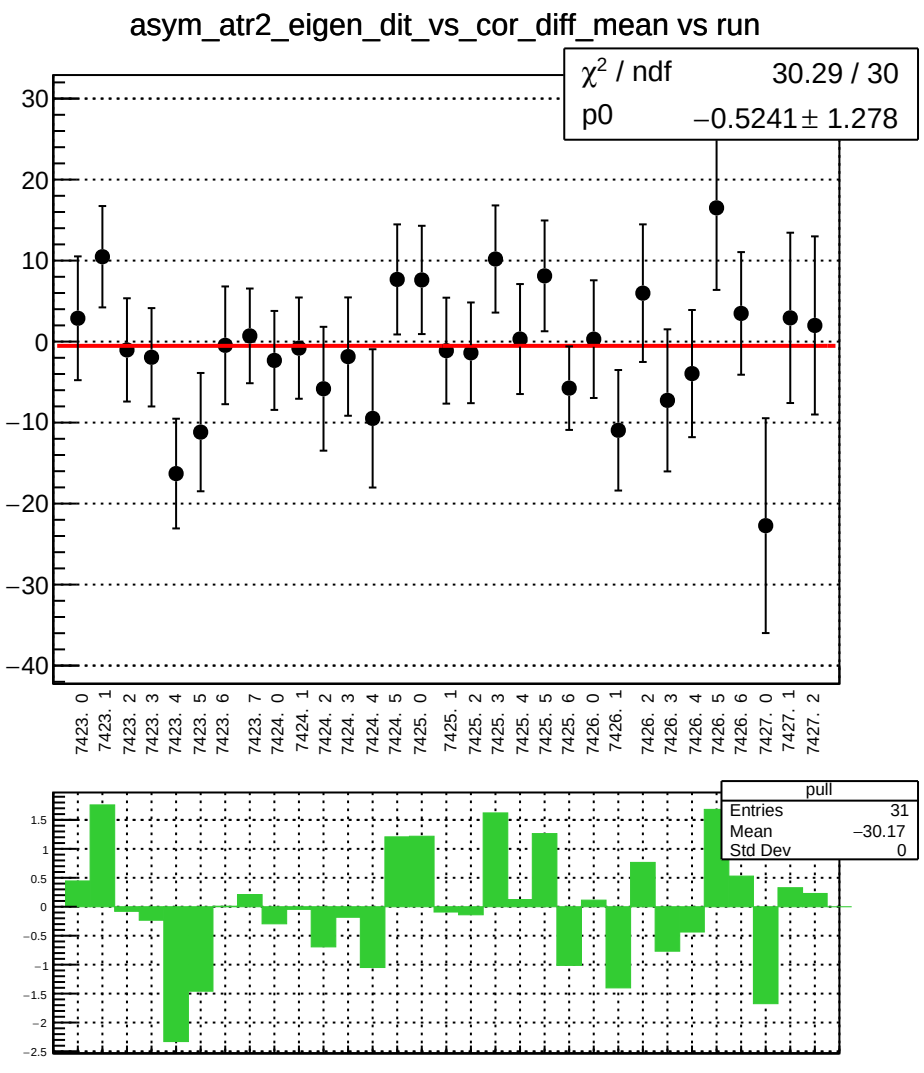

pull1D
Entries 31
Mean −0.01222
Std Dev 0.9883
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

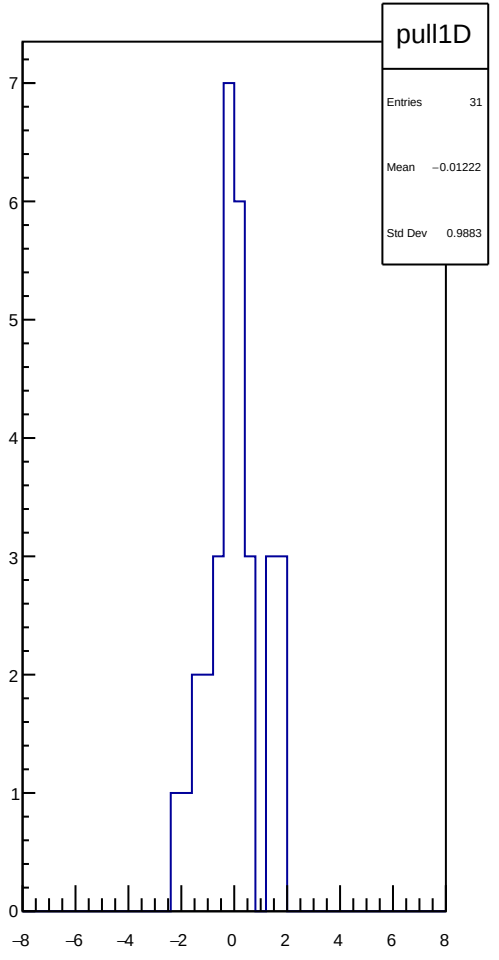

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.659e+04 / 30
p0 687.6 ± 0.9037
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

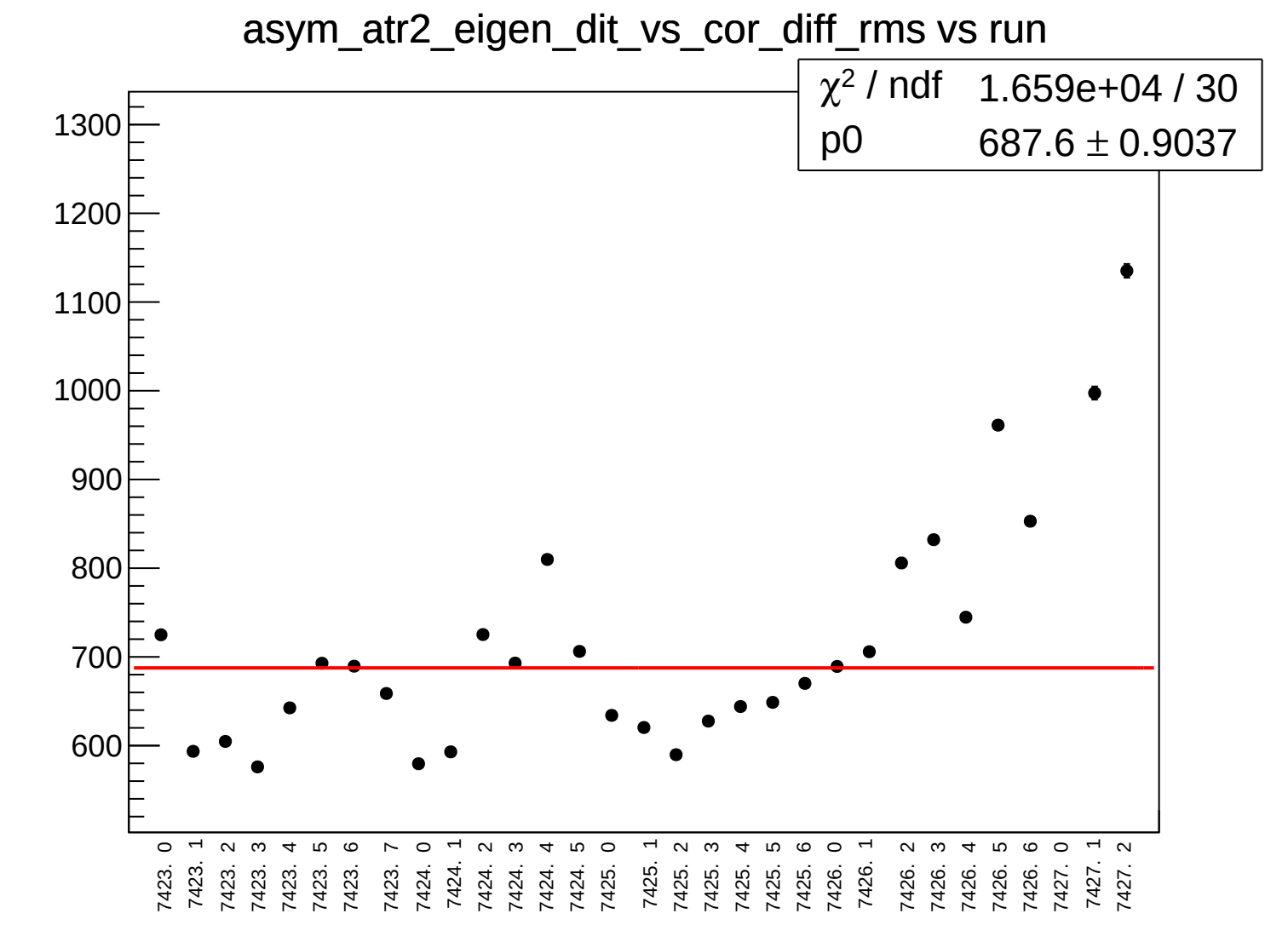

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.97 / 30
p0 4.305e−05 ± 3.949e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −157.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

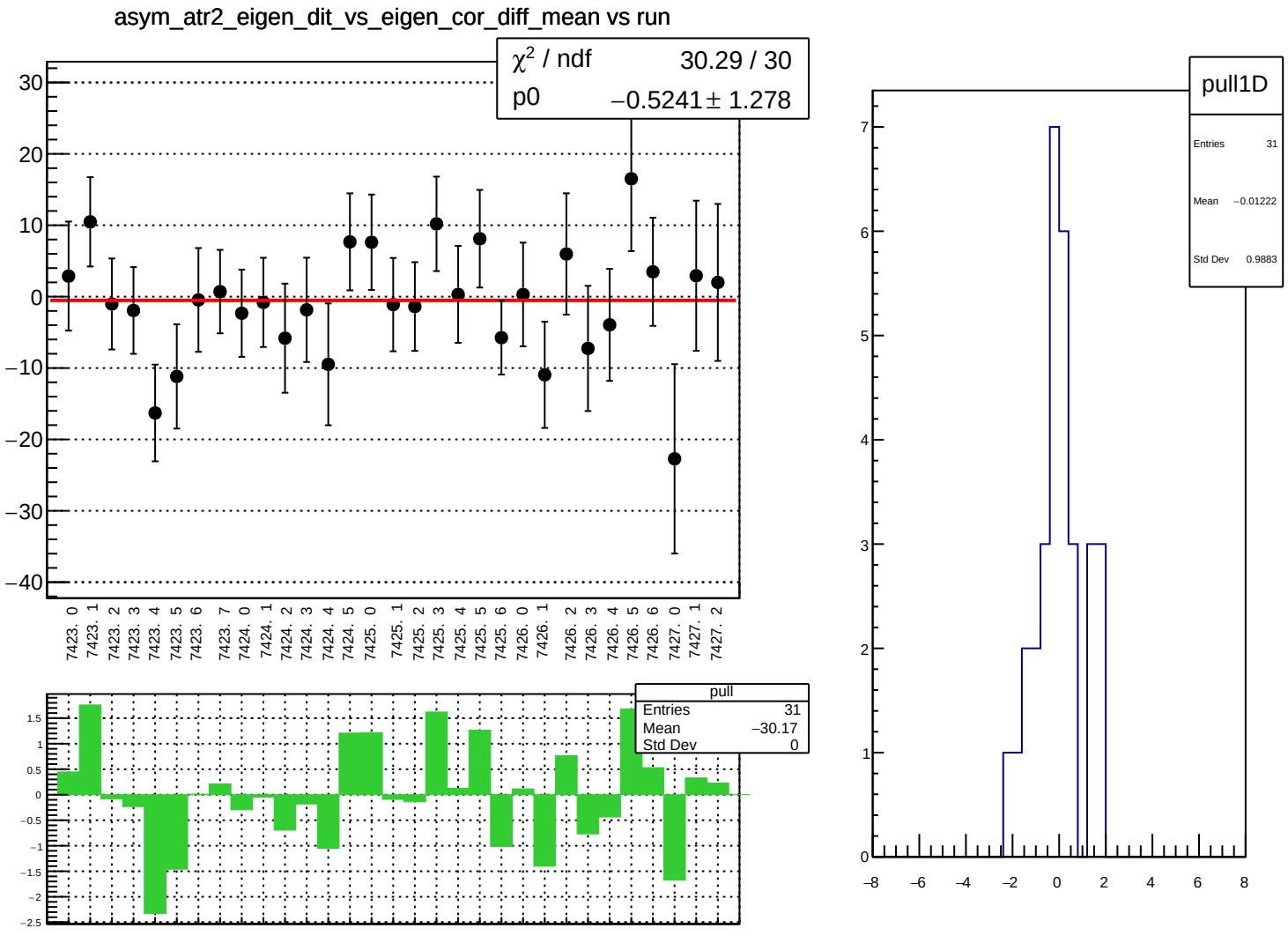

pull1D
Entries 31
Mean −0.0144
Std Dev 0.7822
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

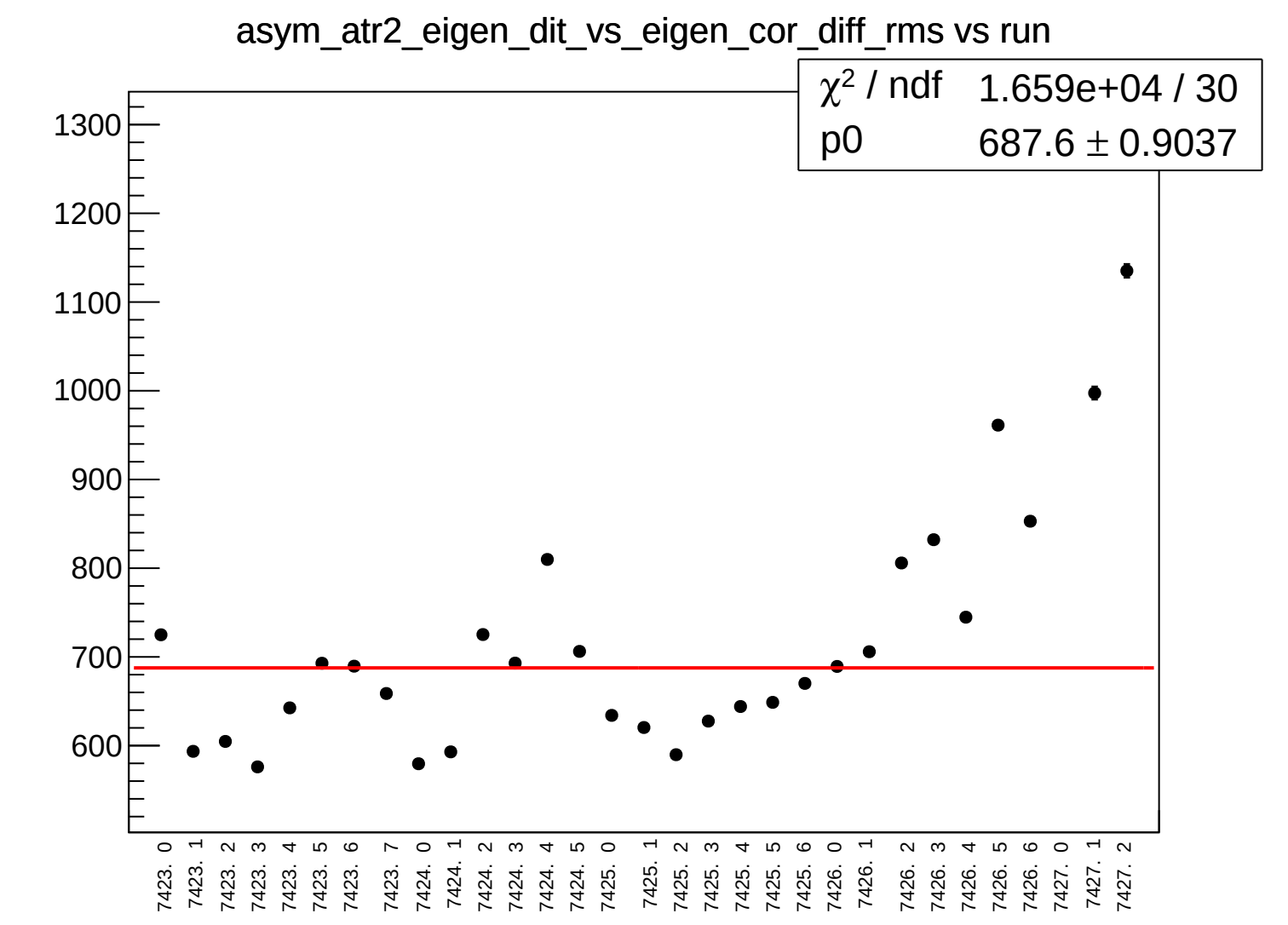

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1286 / 30
p0 0.02153 ± 2.792e–05
0.024
0.023
0.022
0.021
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

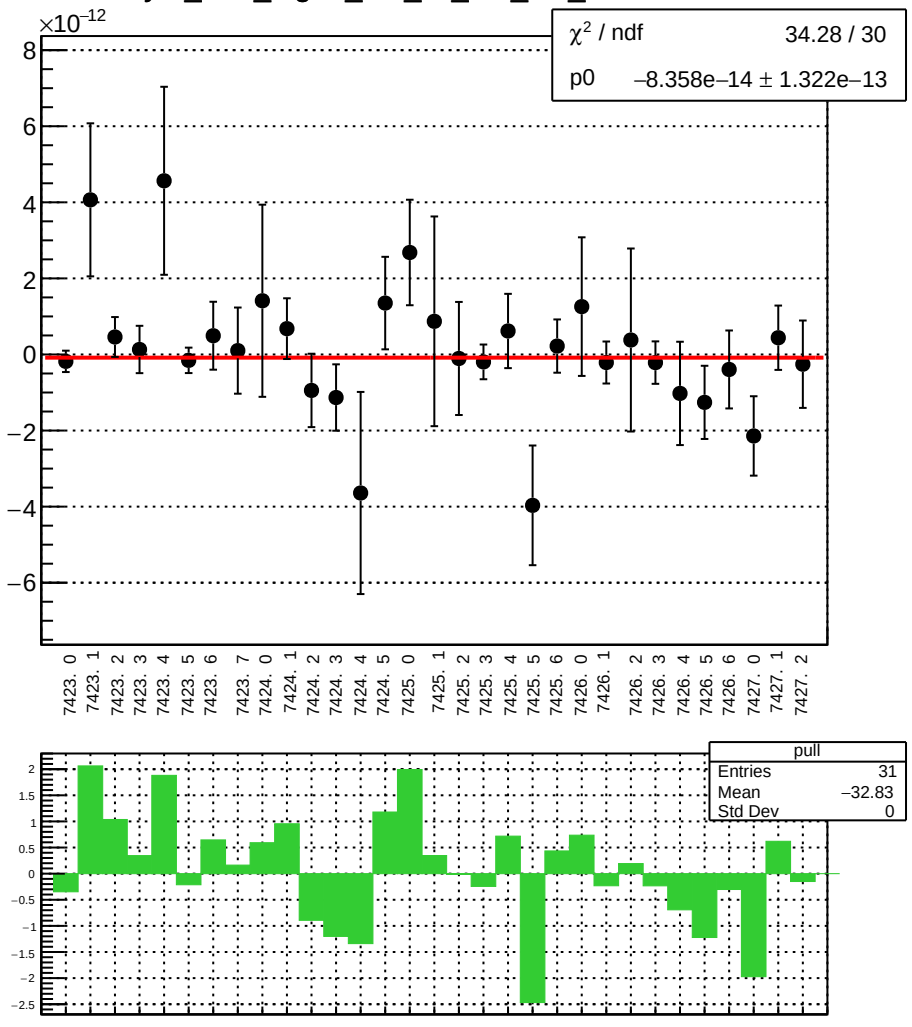

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.29 / 30
p0 −0.5241 ± 1.278
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −30.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

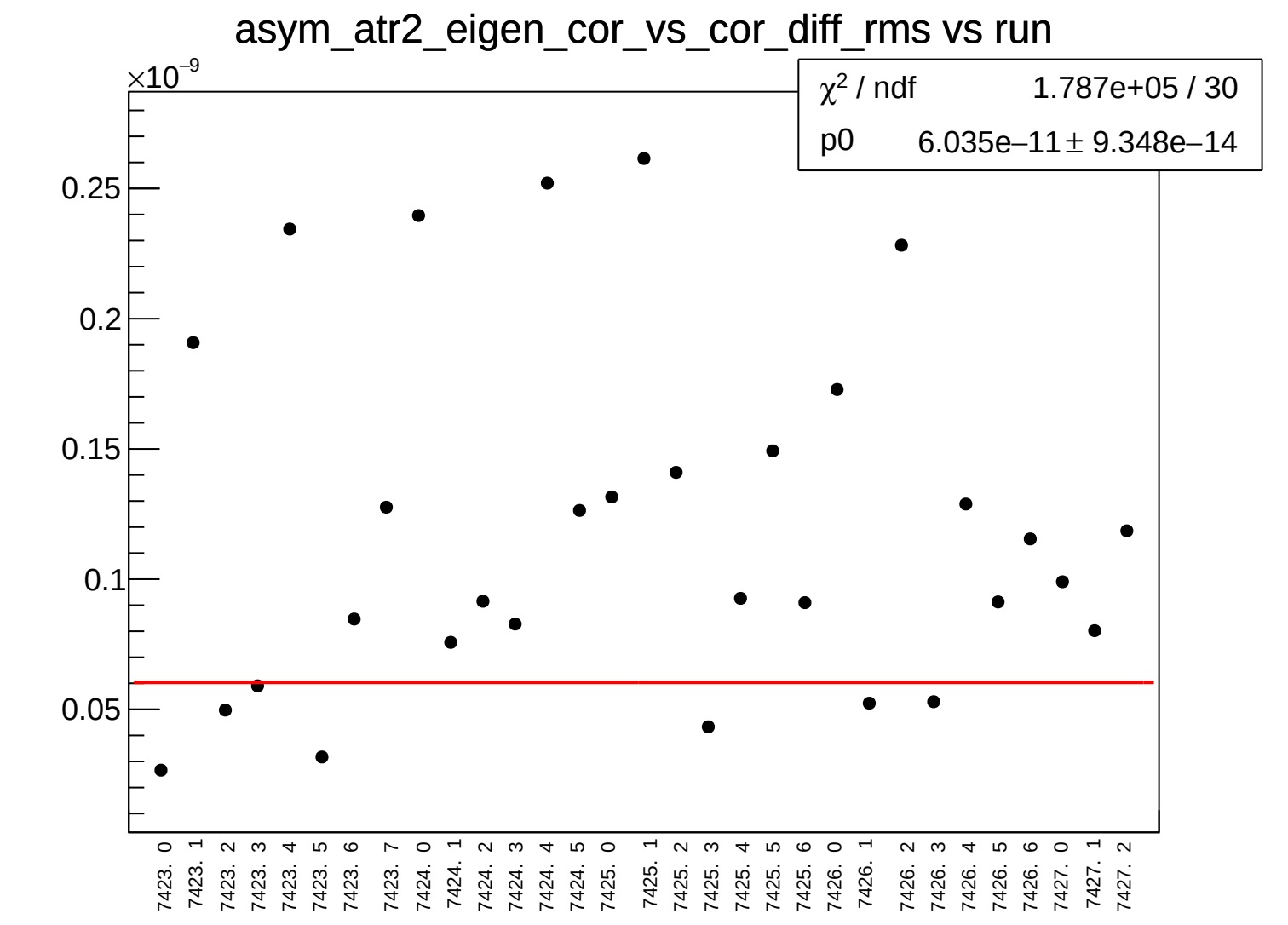

pull1D
Entries 31
Mean −0.01222
Std Dev 0.9883
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

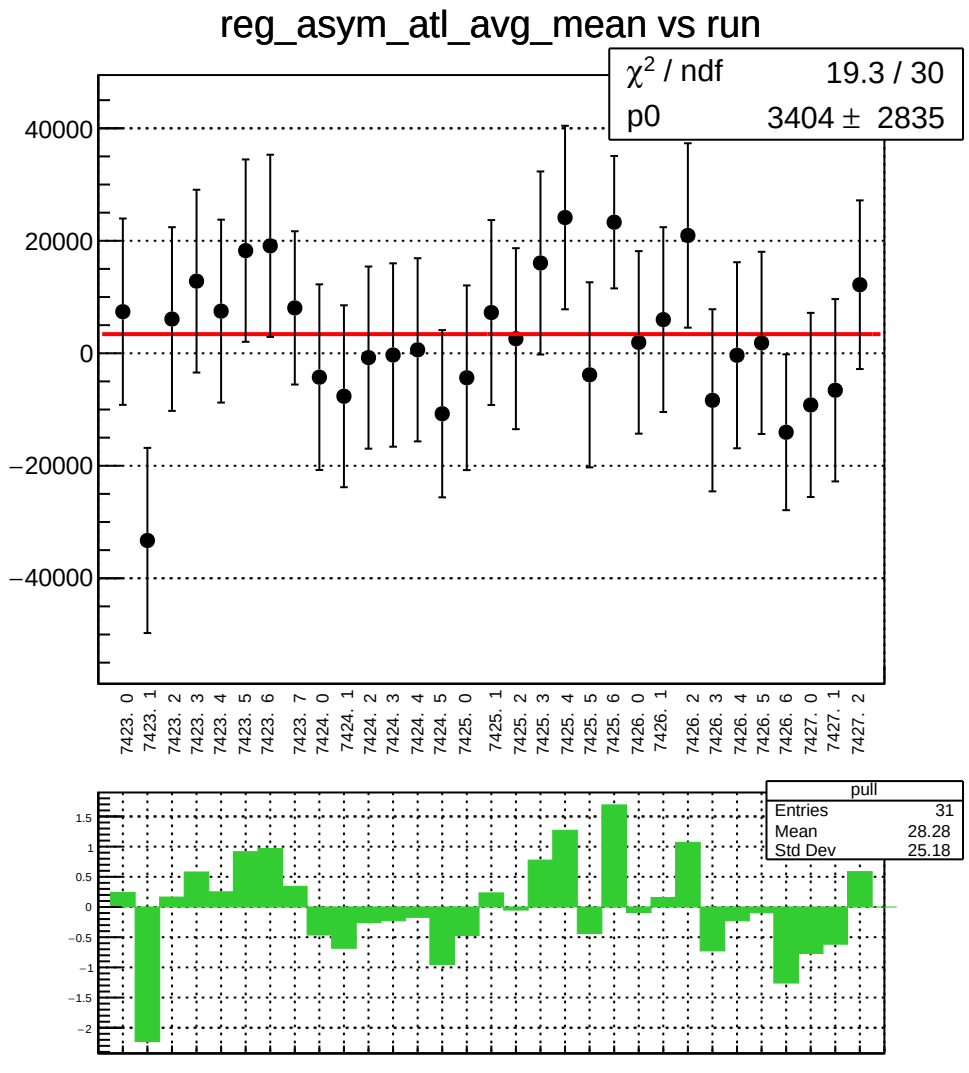

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.659e+04 / 30
p0 687.6 ± 0.9037
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

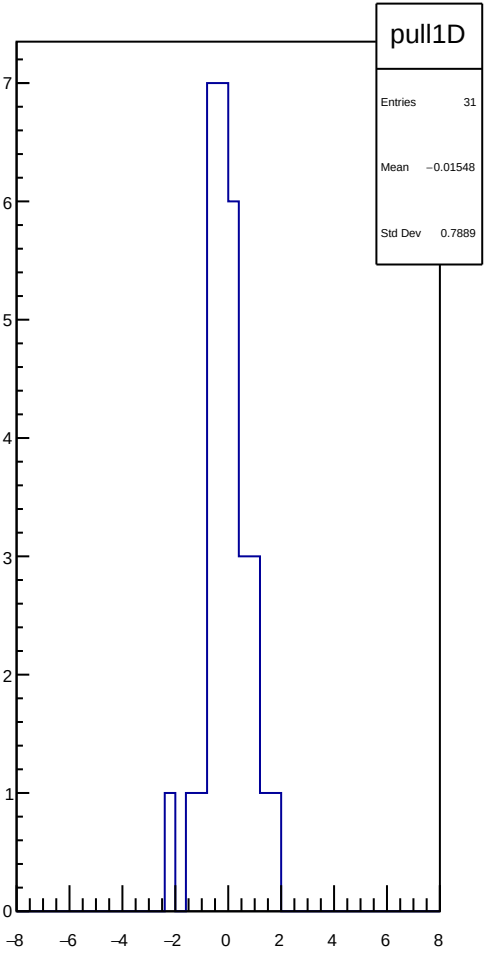

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.29 / 30
p0 −0.5241 ± 1.278
pull
Entries 31
Mean −30.17
Std Dev 0
pull1D
Entries 31
Mean −0.01222
Std Dev 0.9883

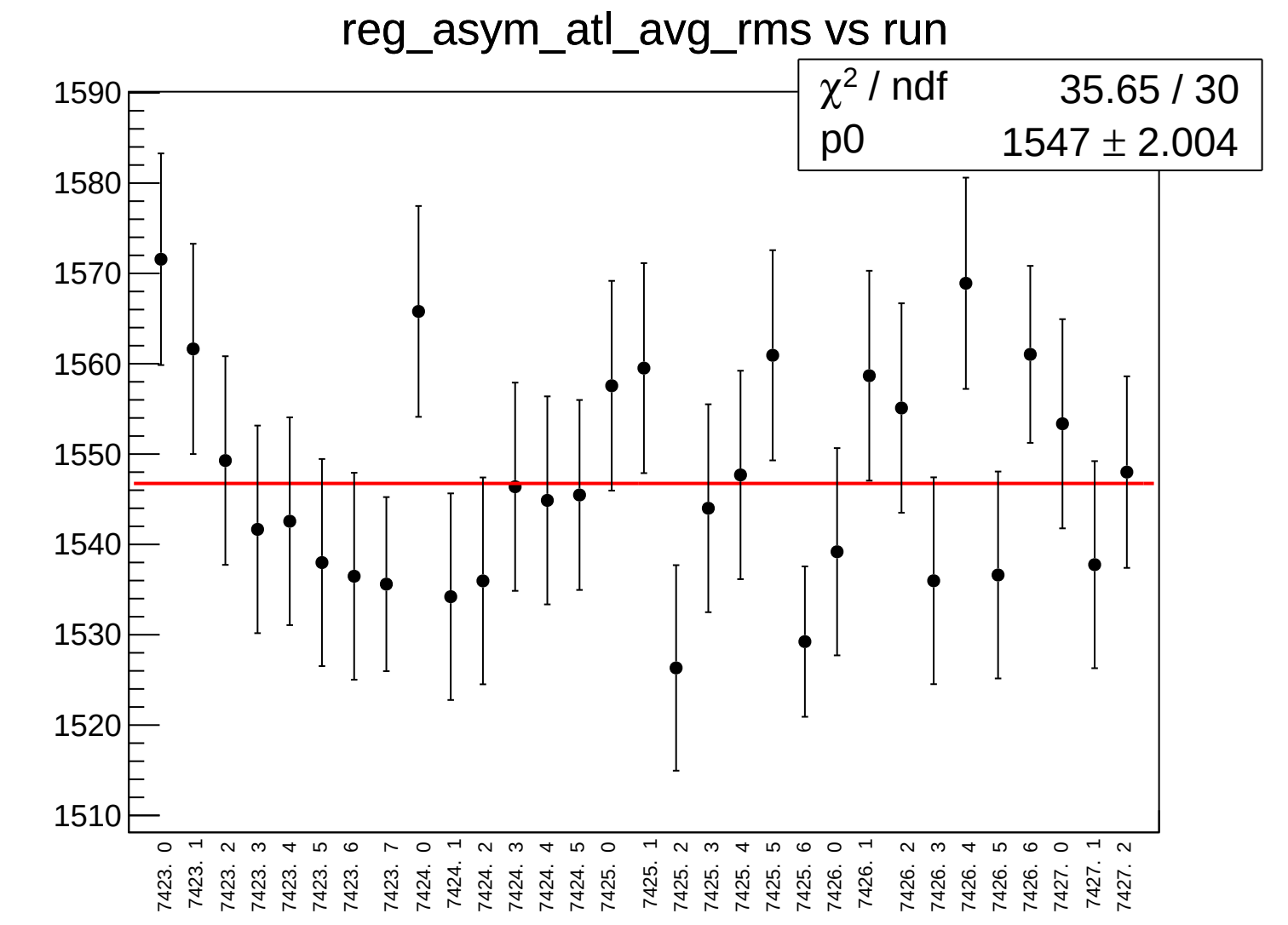

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.659e+04 / 30
p0 687.6 ± 0.9037
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

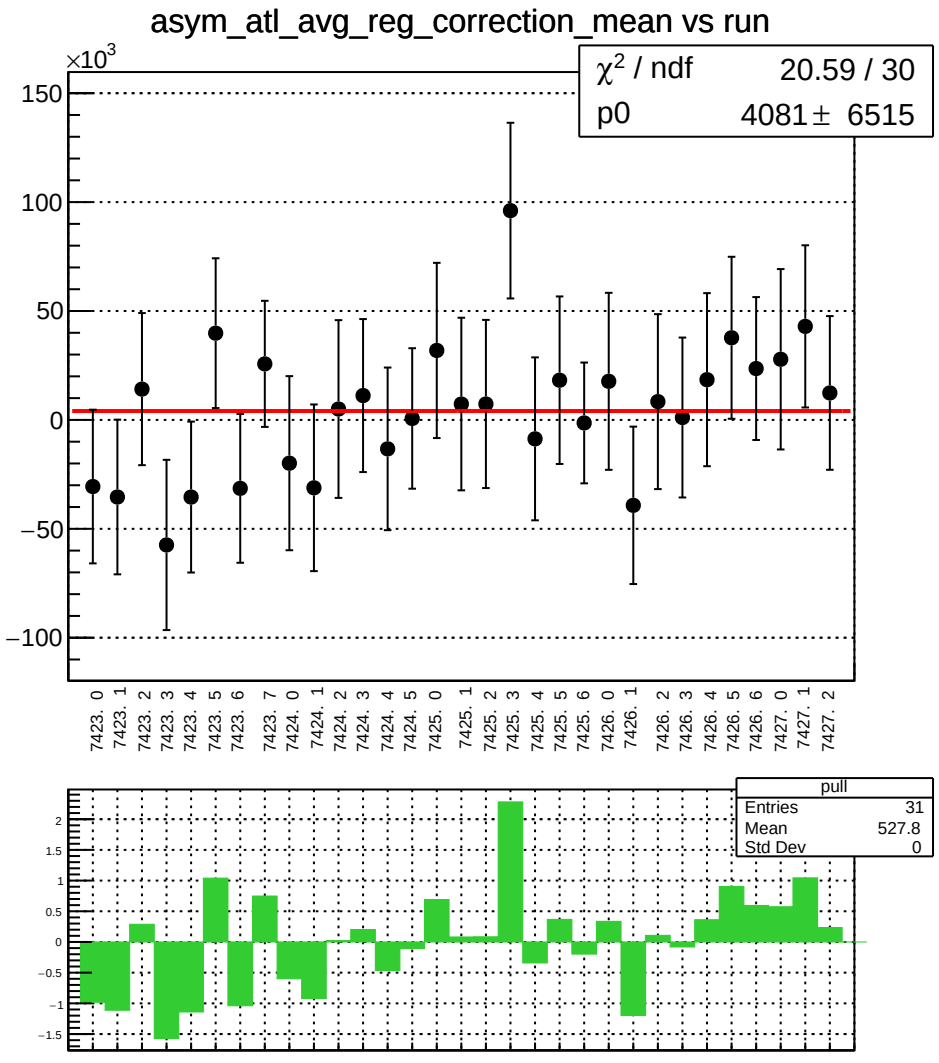

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.28 / 30
p0 −8.358e−14 ± 1.322e−13
pull
Entries 31
Mean −32.83
Std Dev 0
pull1D
Entries 31
Mean 0.07672
Std Dev 1.049

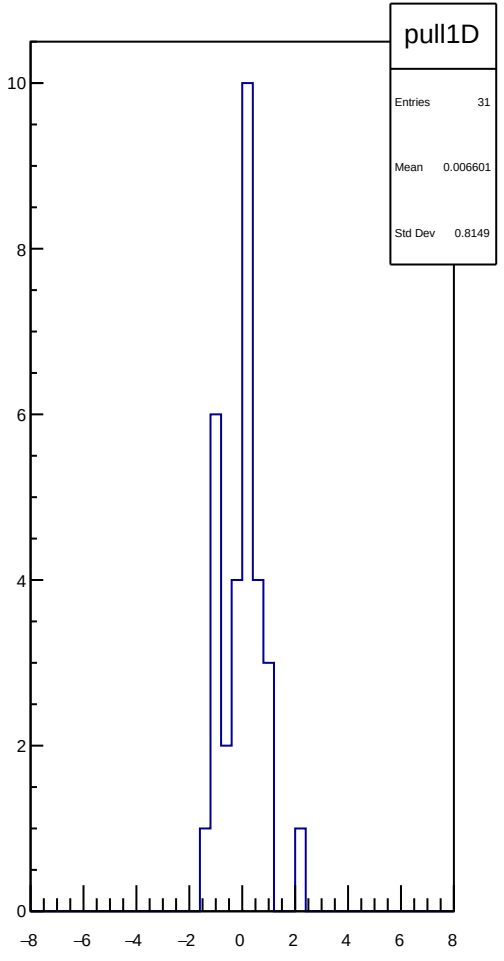

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.787e+05 / 30
p0 6.035e−11 ± 9.348e−14
0.25
0.2
0.15
0.1
0.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

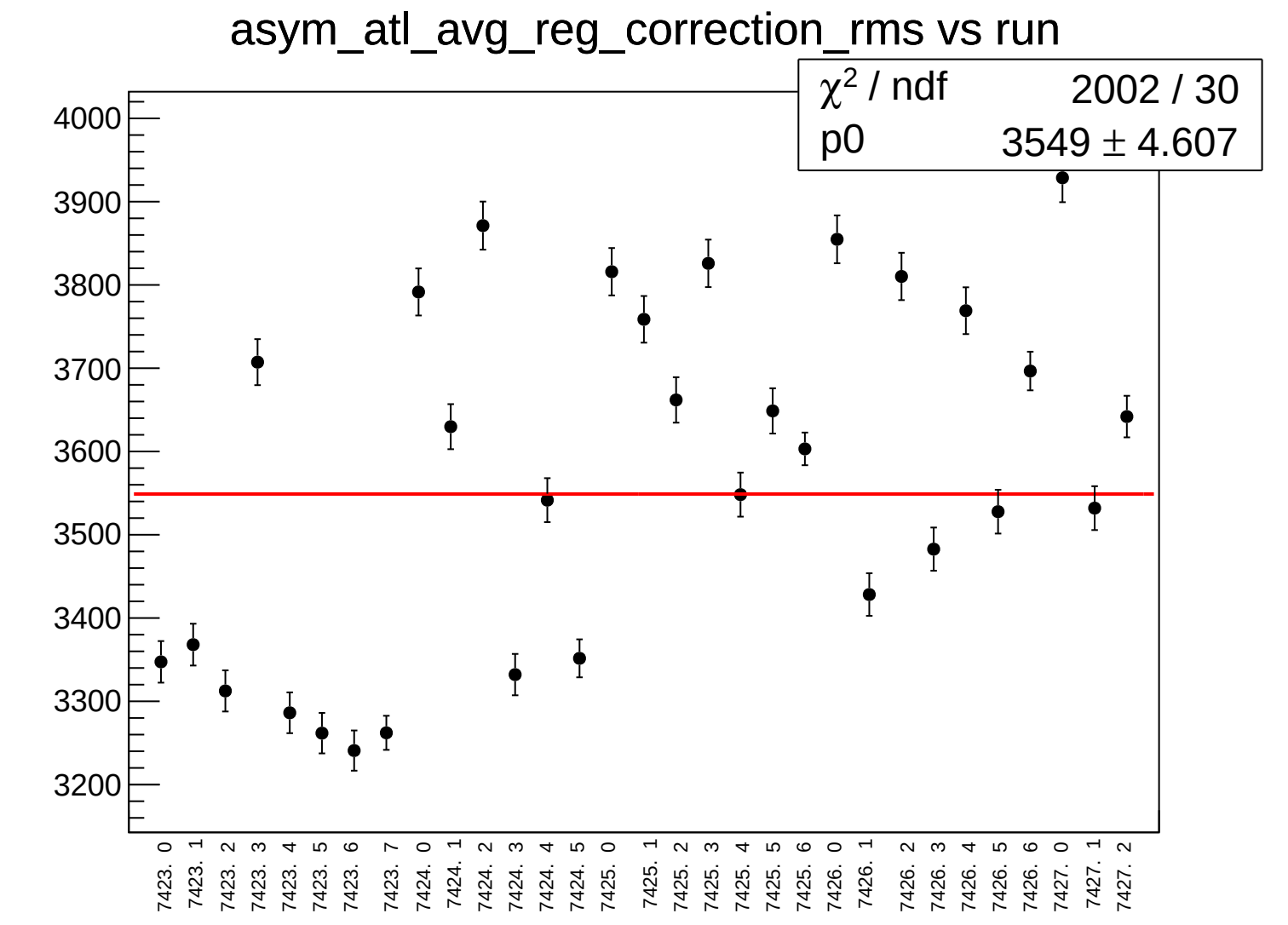

reg_asym_atl_avg_mean vs run
χ² / ndf 19.3 / 30
p0 3404 ± 2835
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 28.28
Std Dev 25.18
1.5
1
0.5
0
−0.5
−1
−1.5
−2

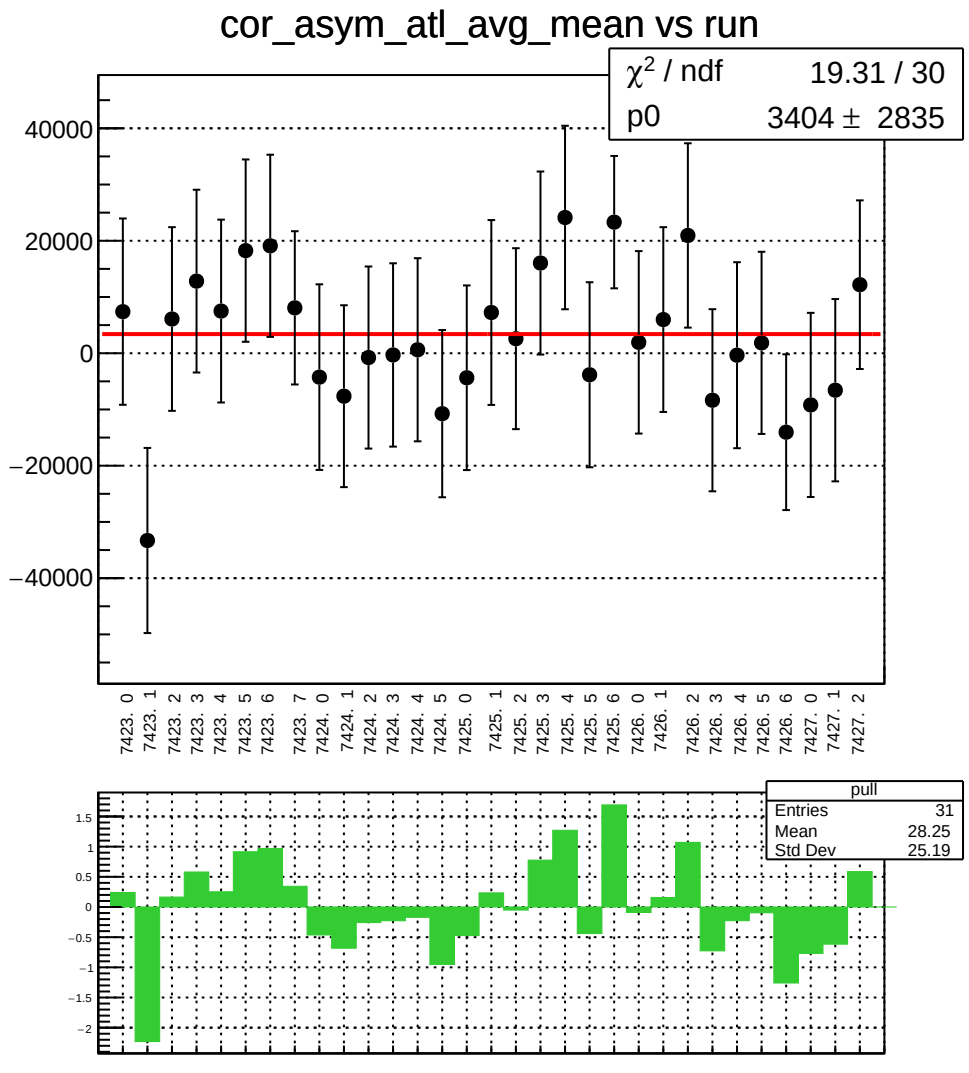

pull1D
Entries 31
Mean −0.01548
Std Dev 0.7889
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

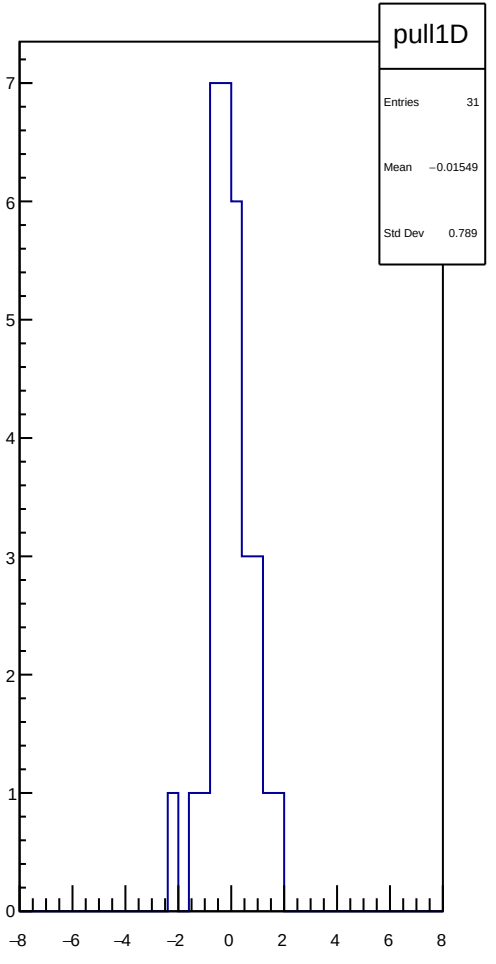

reg_asym_atl_avg_rms vs run
χ² / ndf 35.65 / 30
p0 1547 ± 2.004
1590
1580
1570
1560
1550
1540
1530
1520
1510
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

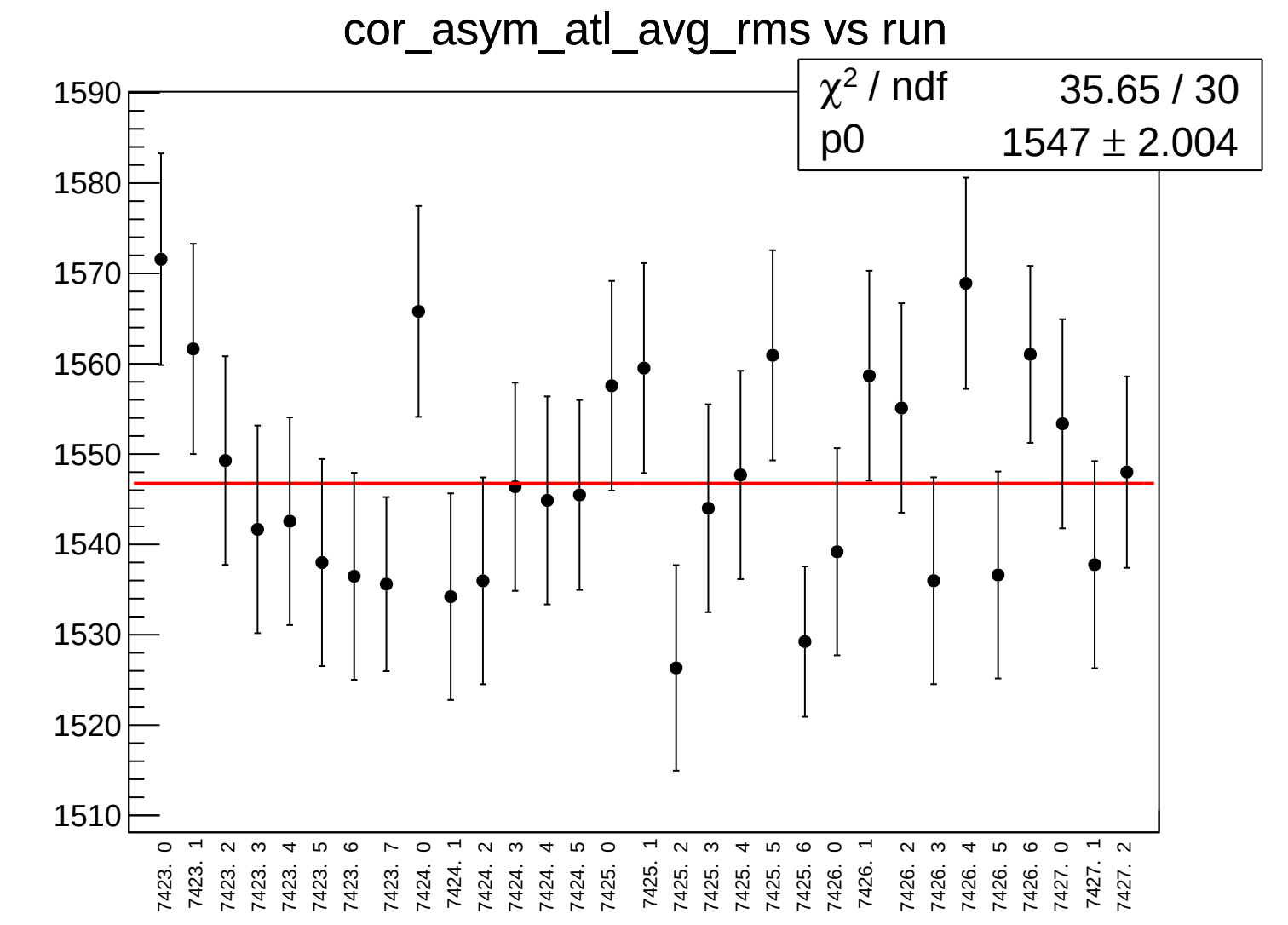

asym_atl_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 20.59 / 30
p0 4081 ± 6515
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 527.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

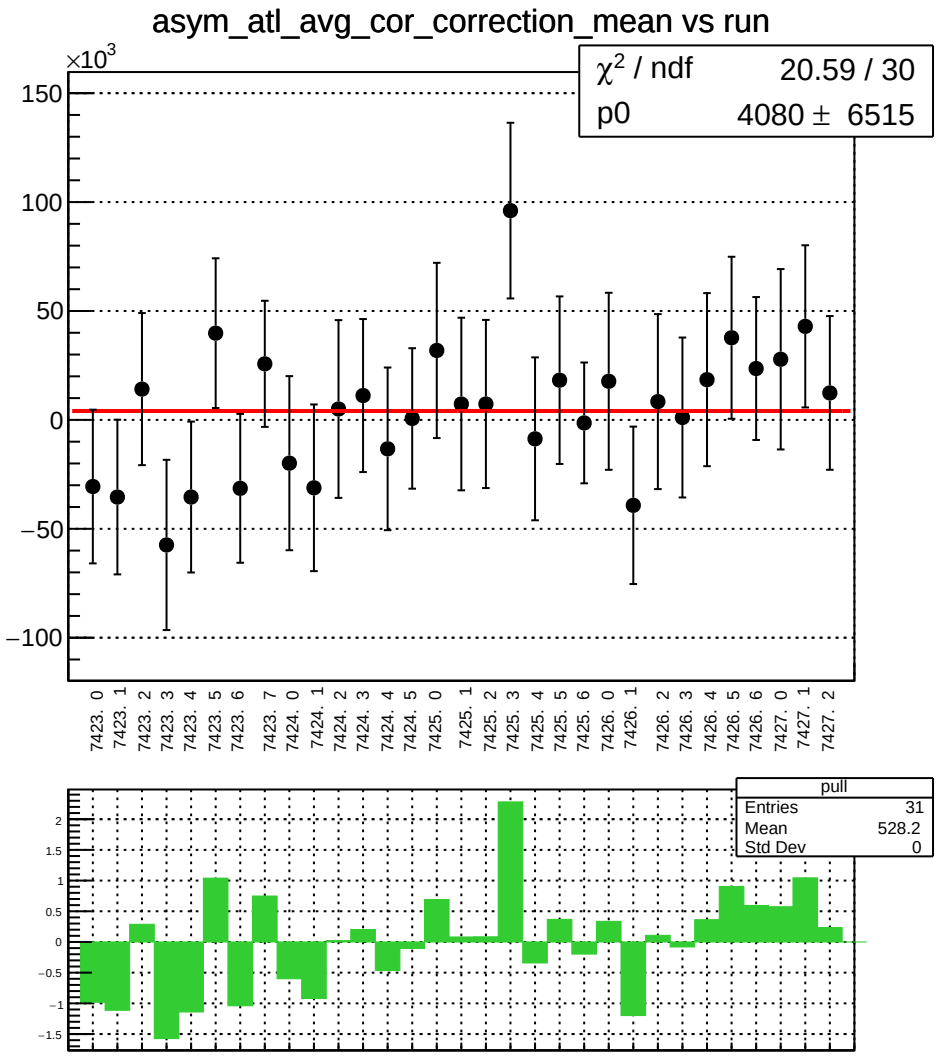

pull1D
Entries 31
Mean 0.006601
Std Dev 0.8149
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

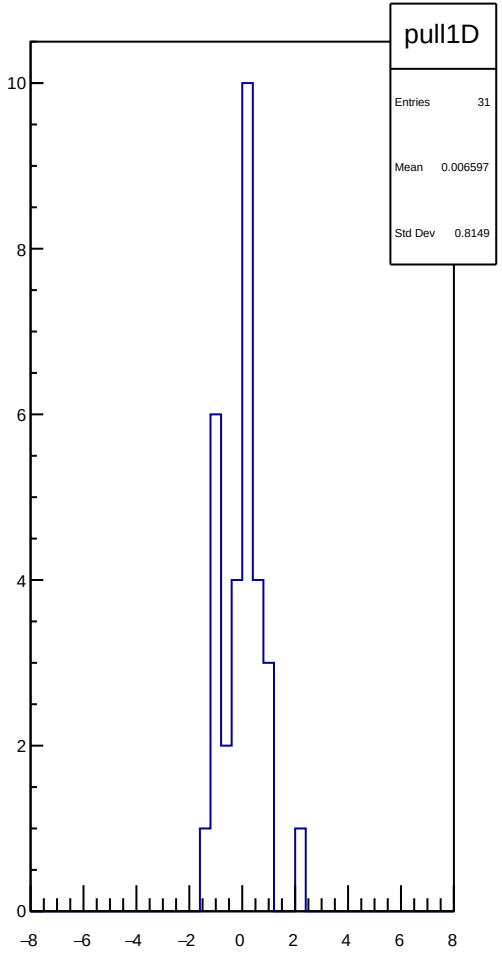

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 2002 / 30
p0 3549 ± 4.607
4000
3900
3800
3700
3600
3500
3400
3300
3200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

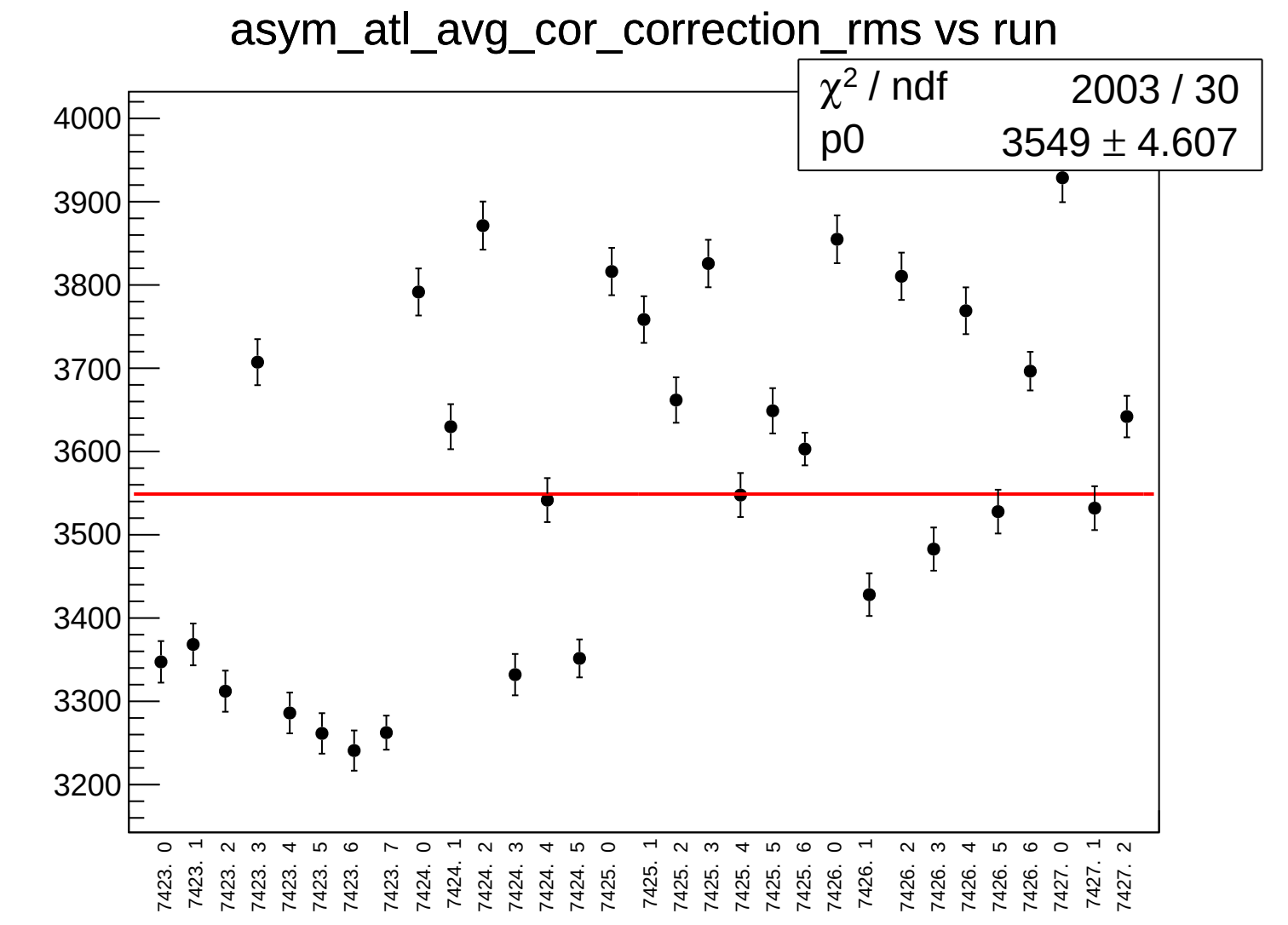

cor_asym_atl_avg_mean vs run
χ² / ndf 19.31 / 30
p0 3404 ± 2835
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 28.25
Std Dev 25.19
1.5
1
0.5
0
−0.5
−1
−1.5
−2

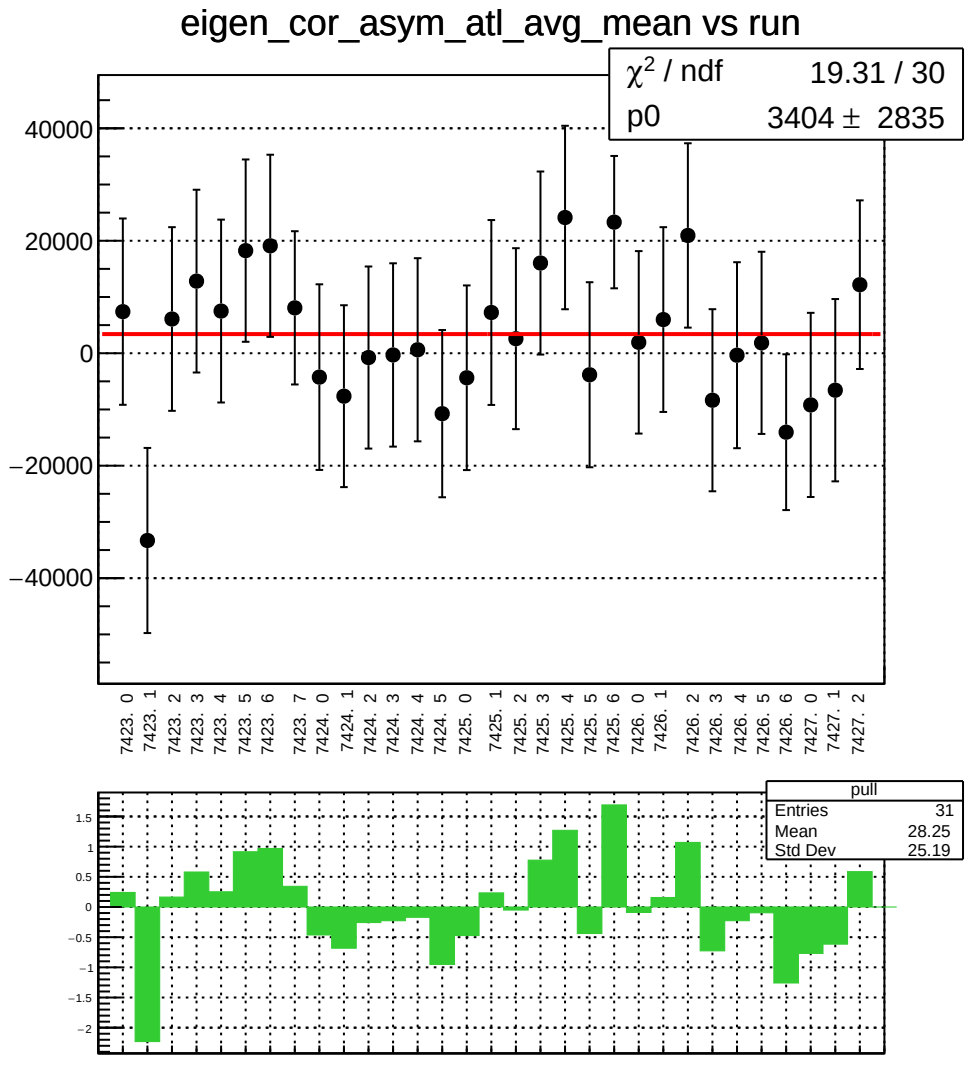

pull1D
Entries 31
Mean −0.01549
Std Dev 0.789
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

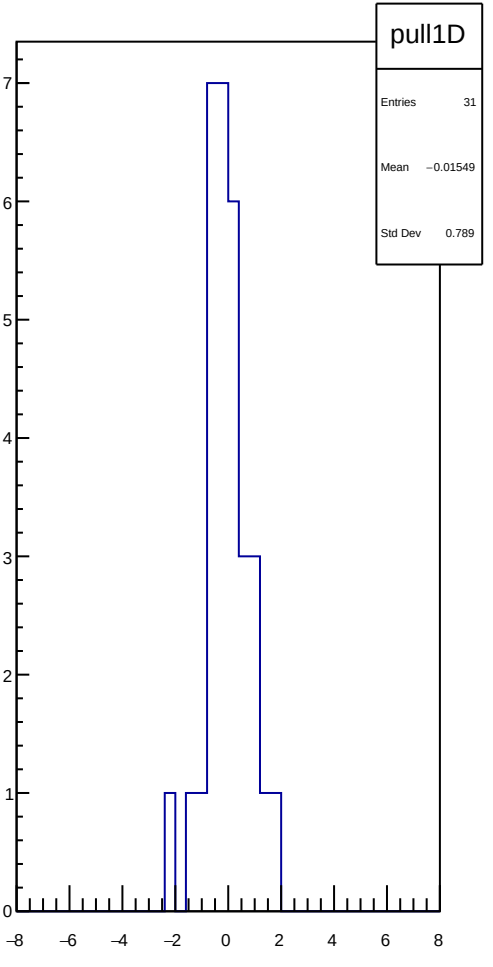

cor_asym_atl_avg_rms vs run
χ² / ndf 35.65 / 30
p0 1547 ± 2.004
1590
1580
1570
1560
1550
1540
1530
1520
1510
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

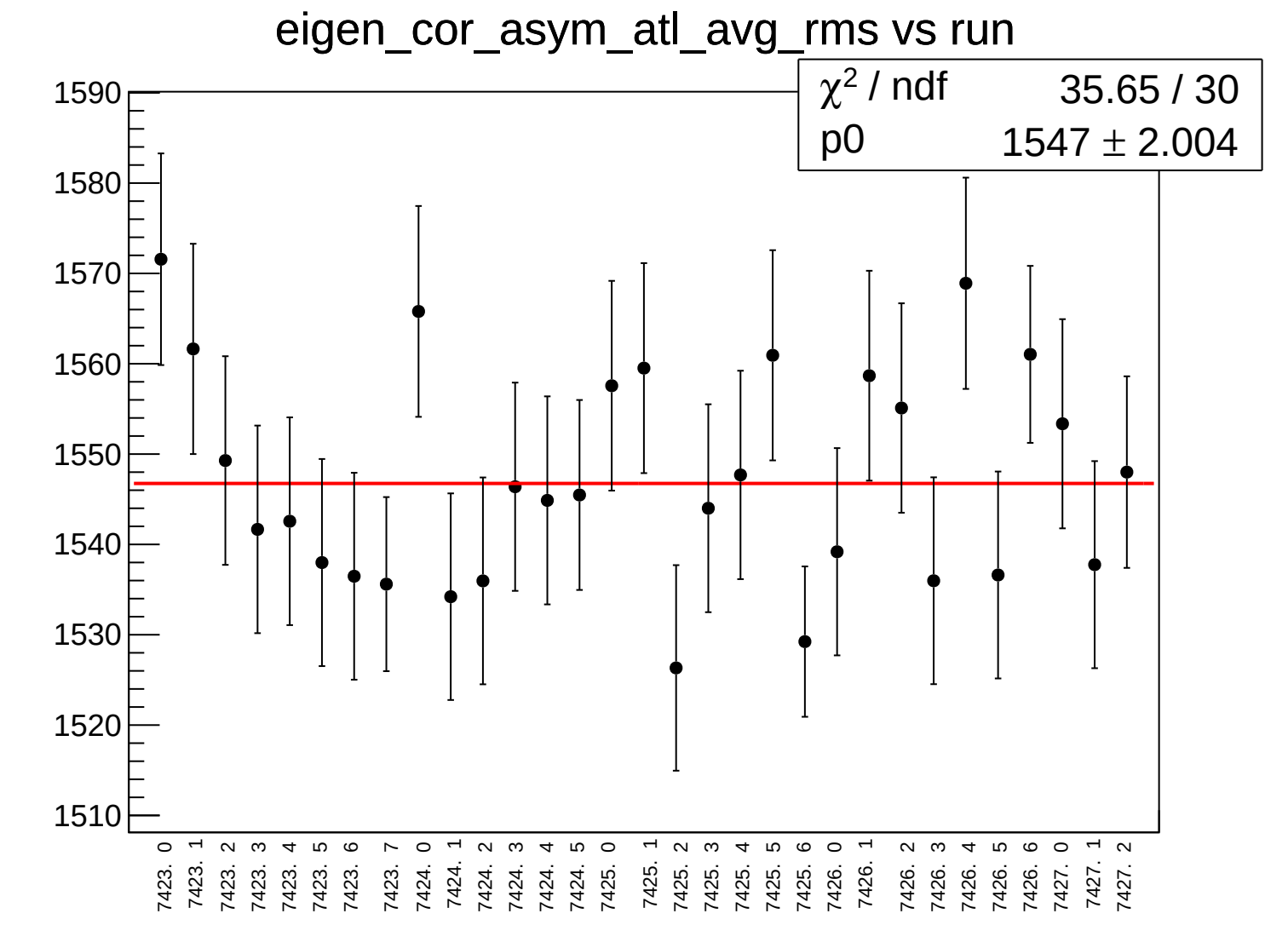

asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 20.59 / 30
p0 4080 ± 6515
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 528.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

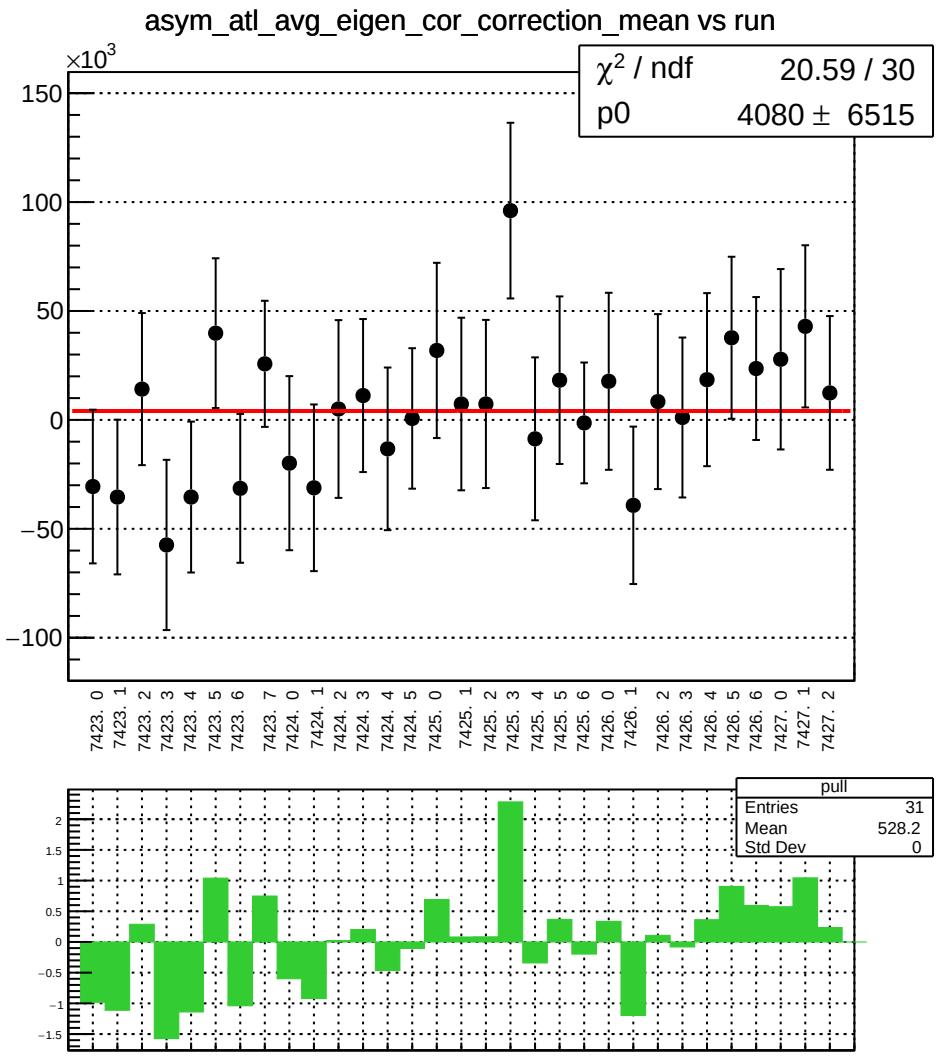

pull1D
Entries 31
Mean 0.006597
Std Dev 0.8149
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

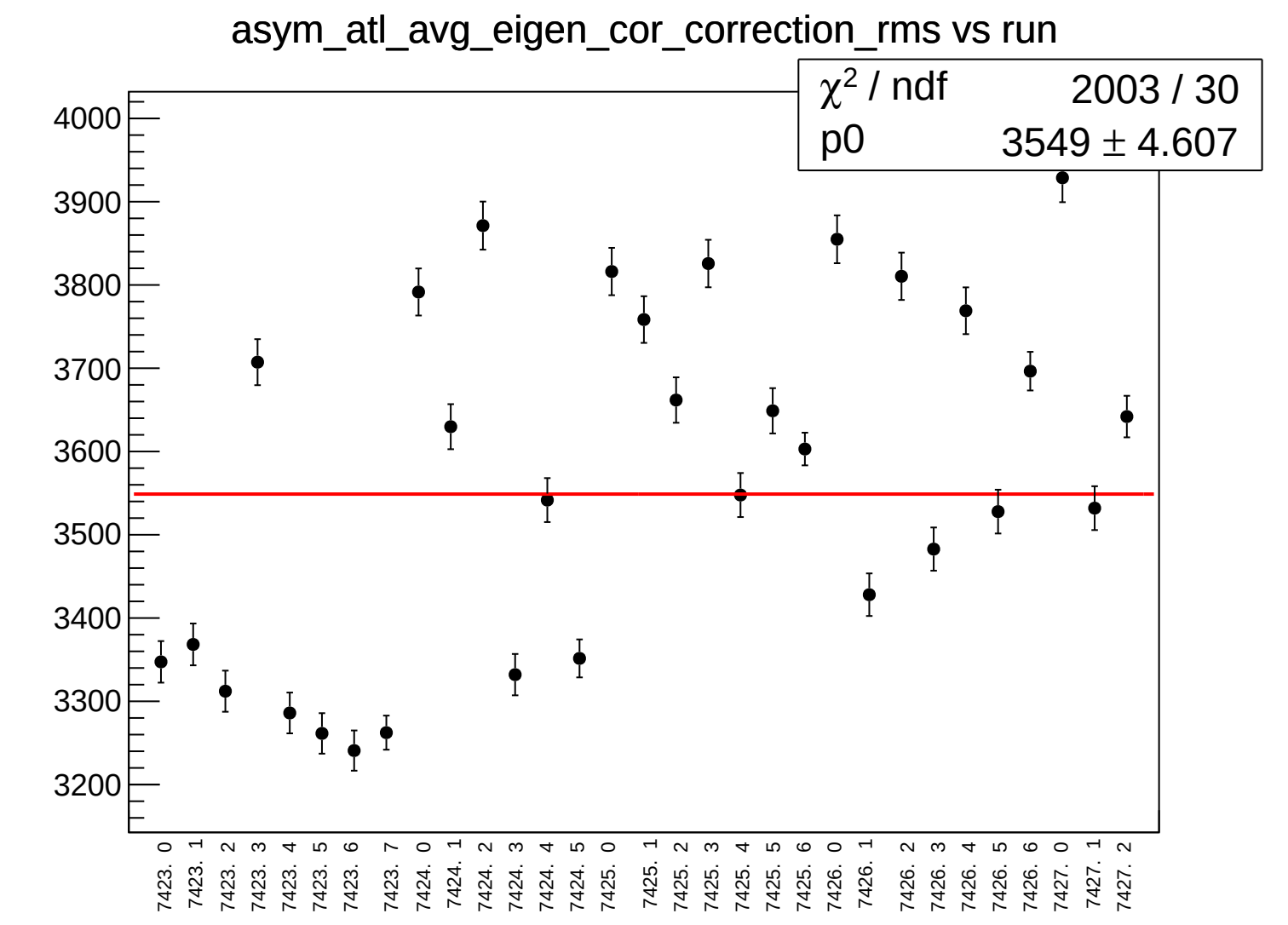

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 2003 / 30
p0 3549 ± 4.607
4000
3900
3800
3700
3600
3500
3400
3300
3200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

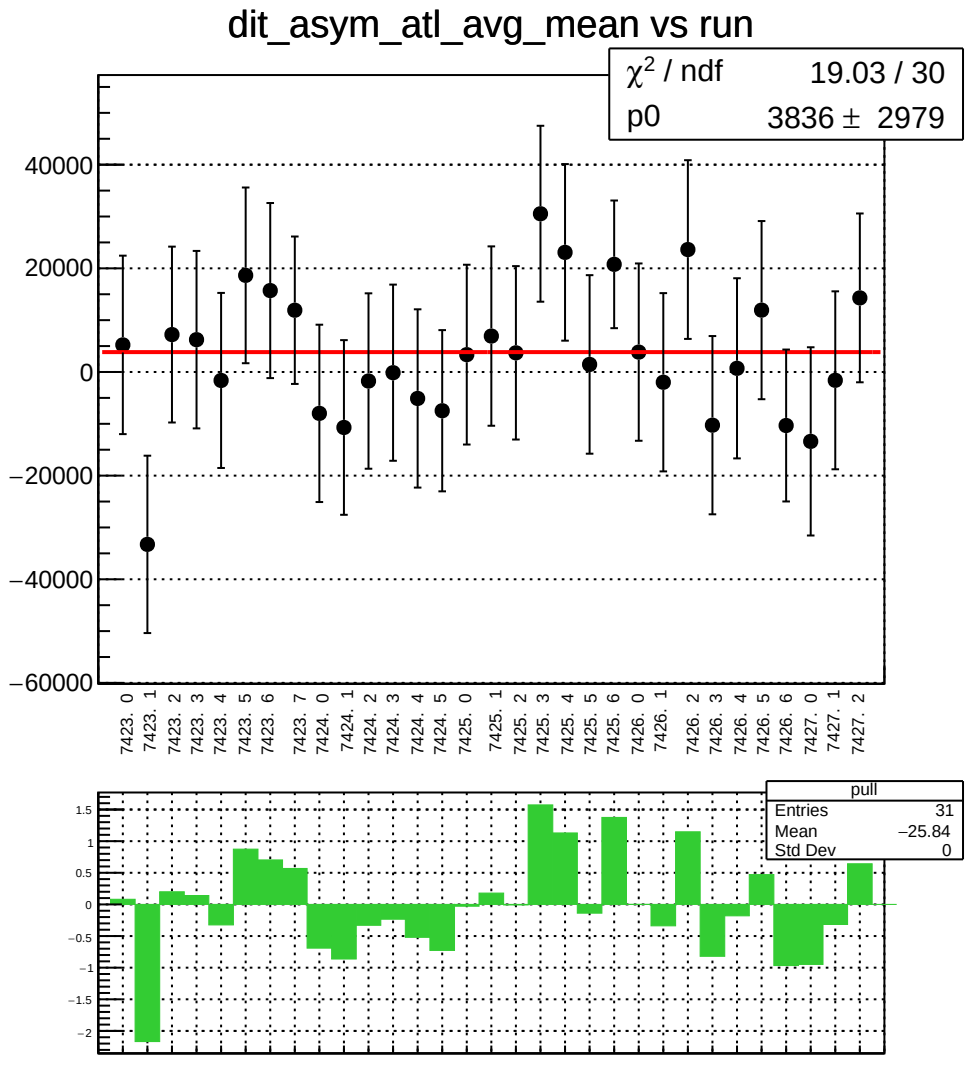

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 19.31 / 30
p0 3404 ± 2835
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 28.25
Std Dev 25.19
1.5
1
0.5
0
−0.5
−1
−1.5
−2

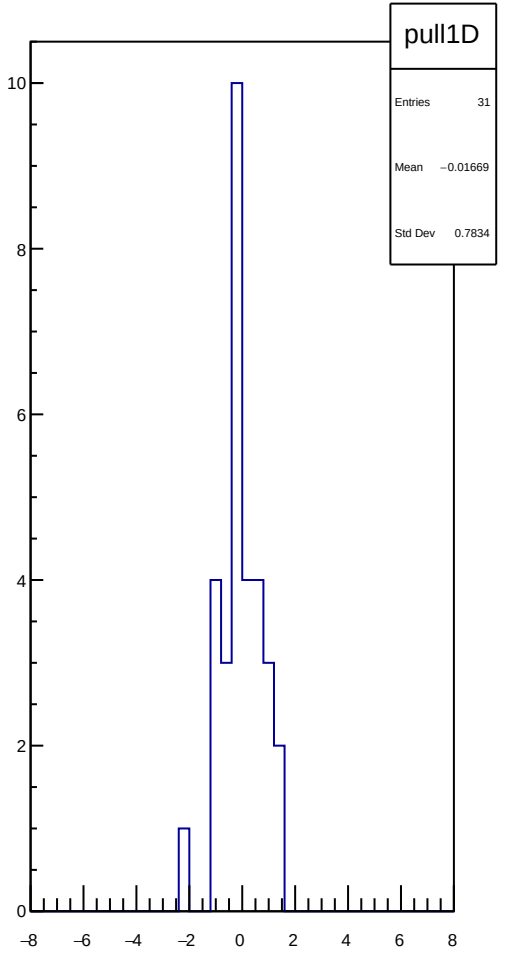

pull1D
Entries 31
Mean −0.01549
Std Dev 0.789
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

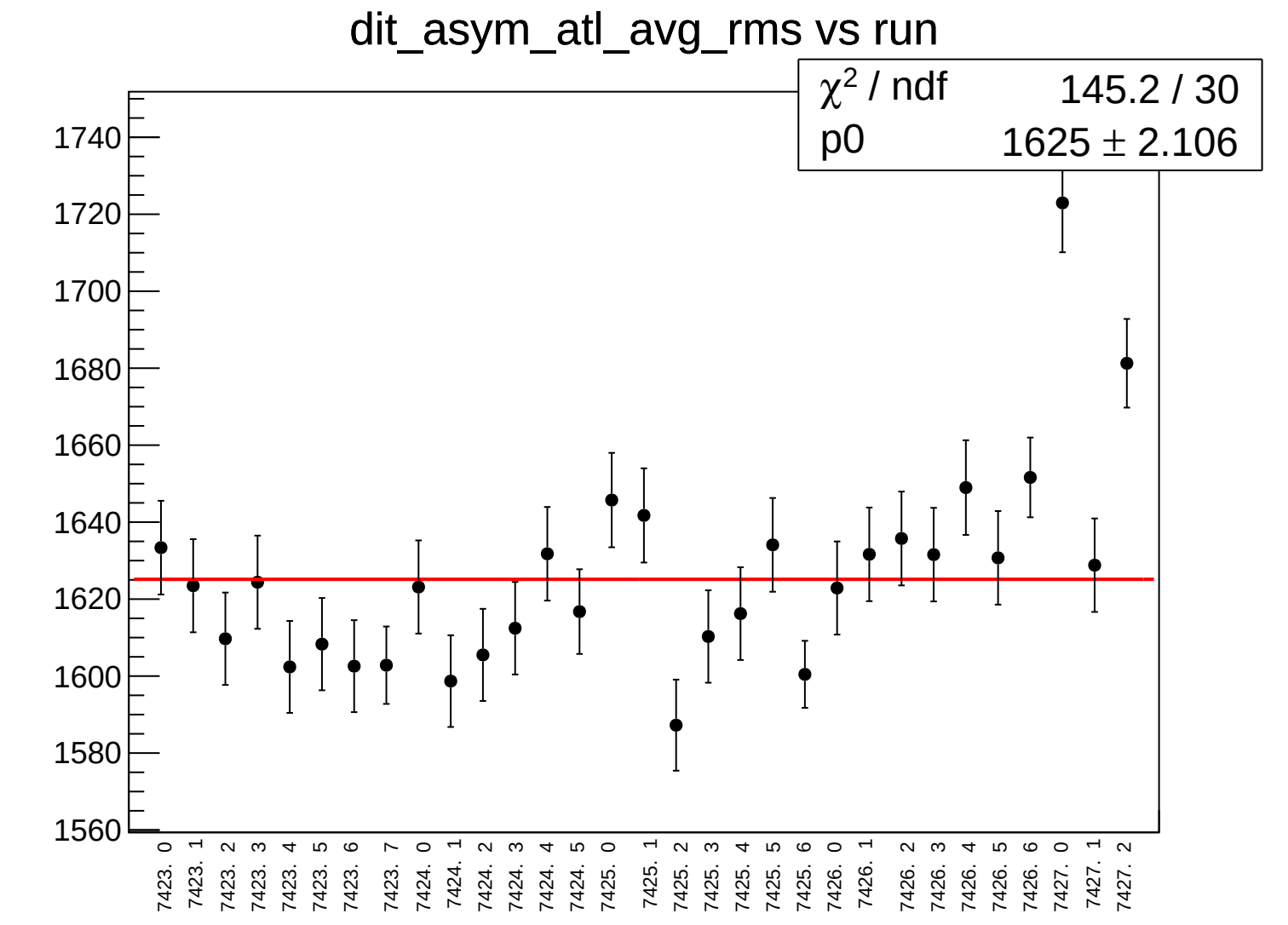

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 35.65 / 30
p0 1547 ± 2.004
1590
1580
1570
1560
1550
1540
1530
1520
1510
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

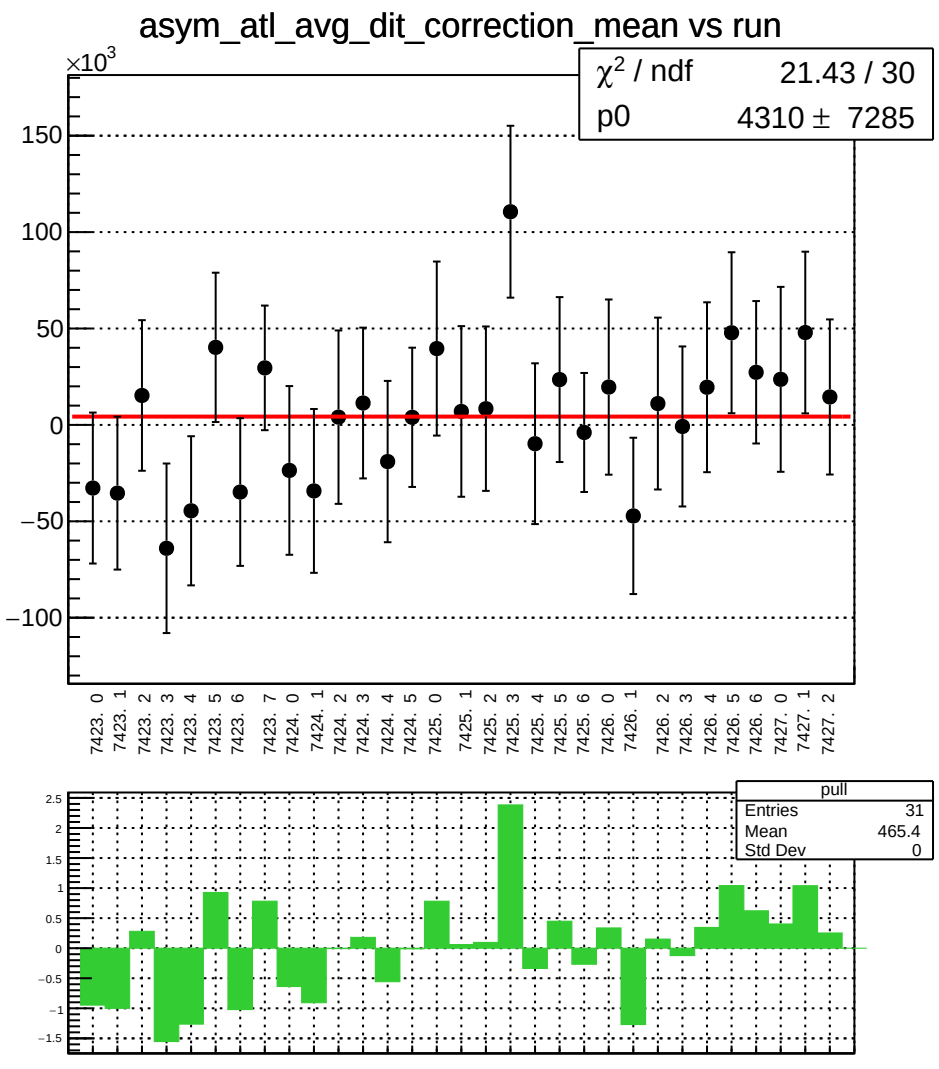

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 20.59 / 30
p0 4080 ± 6515
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 528.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.006597
Std Dev 0.8149
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

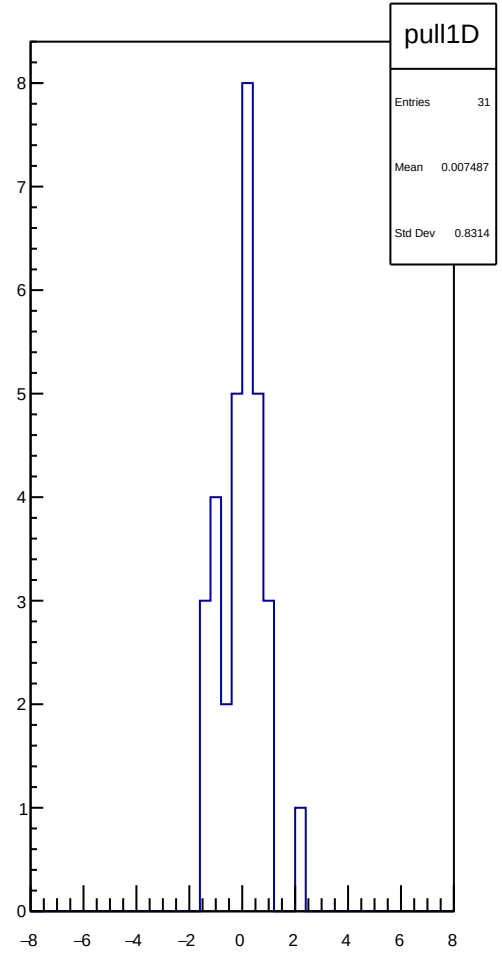

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 2003 / 30
p0 3549 ± 4.607
4000
3900
3800
3700
3600
3500
3400
3300
3200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

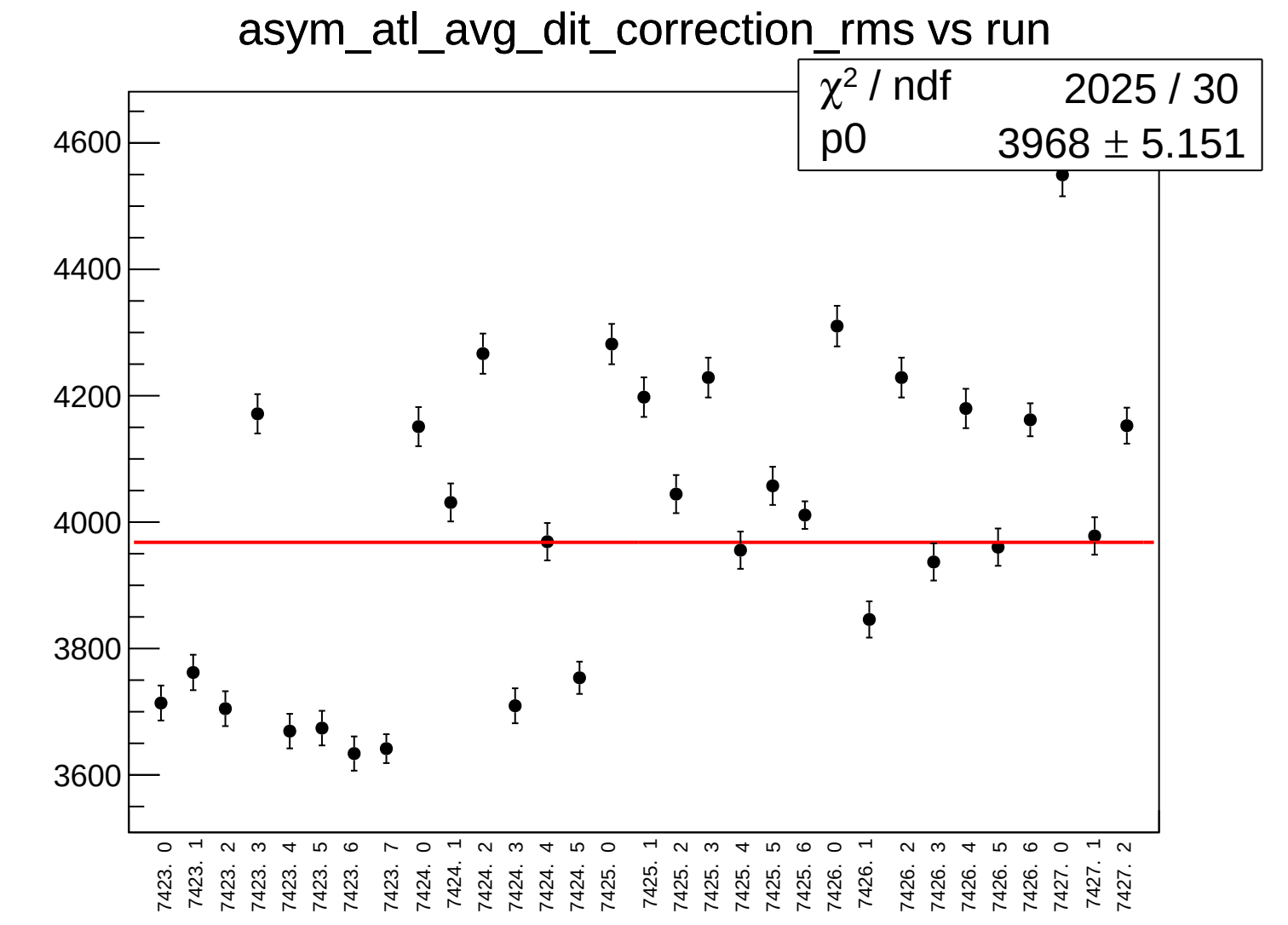

dit_asym_atl_avg_mean vs run
χ² / ndf 19.03 / 30
p0 3836 ± 2979
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −25.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

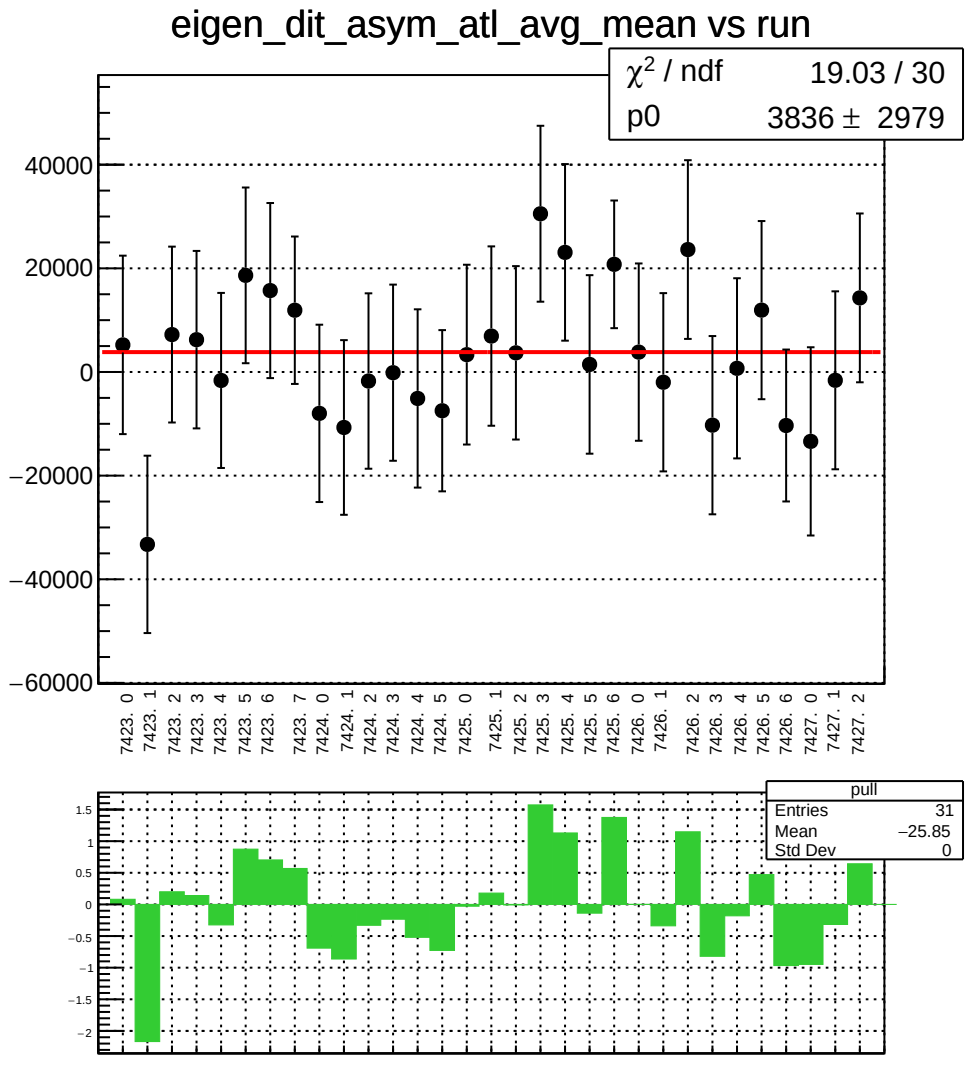

pull1D
Entries 31
Mean −0.01669
Std Dev 0.7834
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

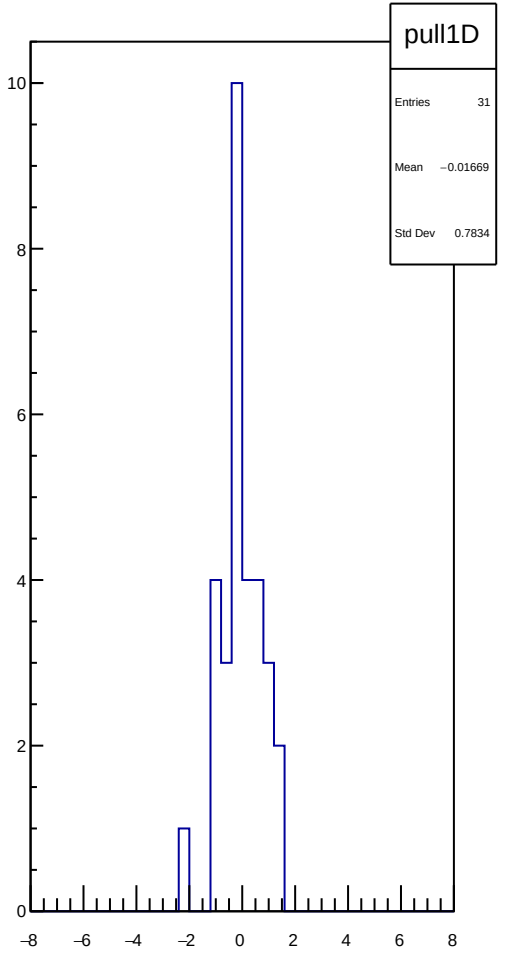

dit_asym_atl_avg_rms vs run
χ² / ndf 145.2 / 30
p0 1625 ± 2.106
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

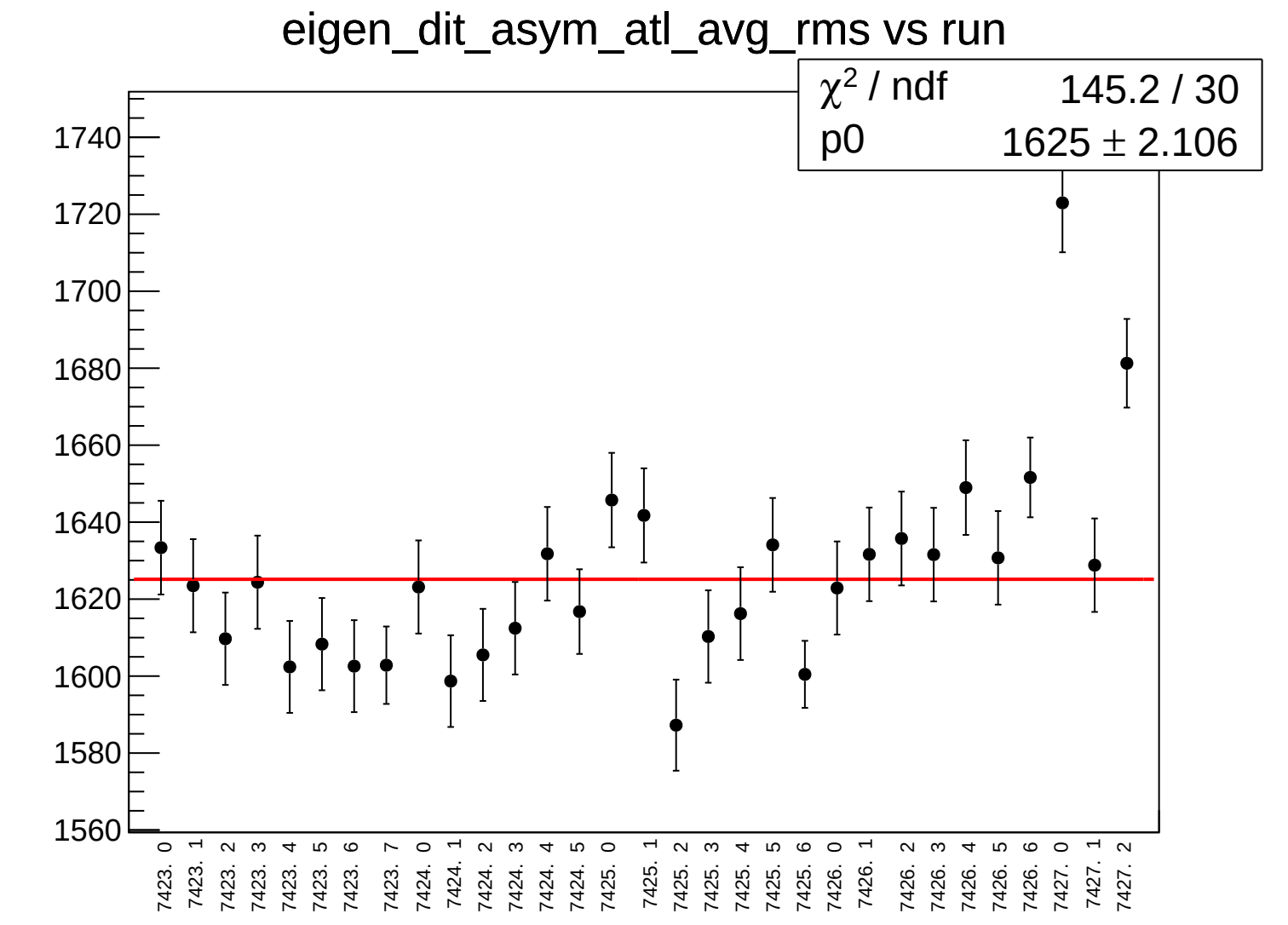

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 21.43 / 30
p0 4310 ± 7285
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 465.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

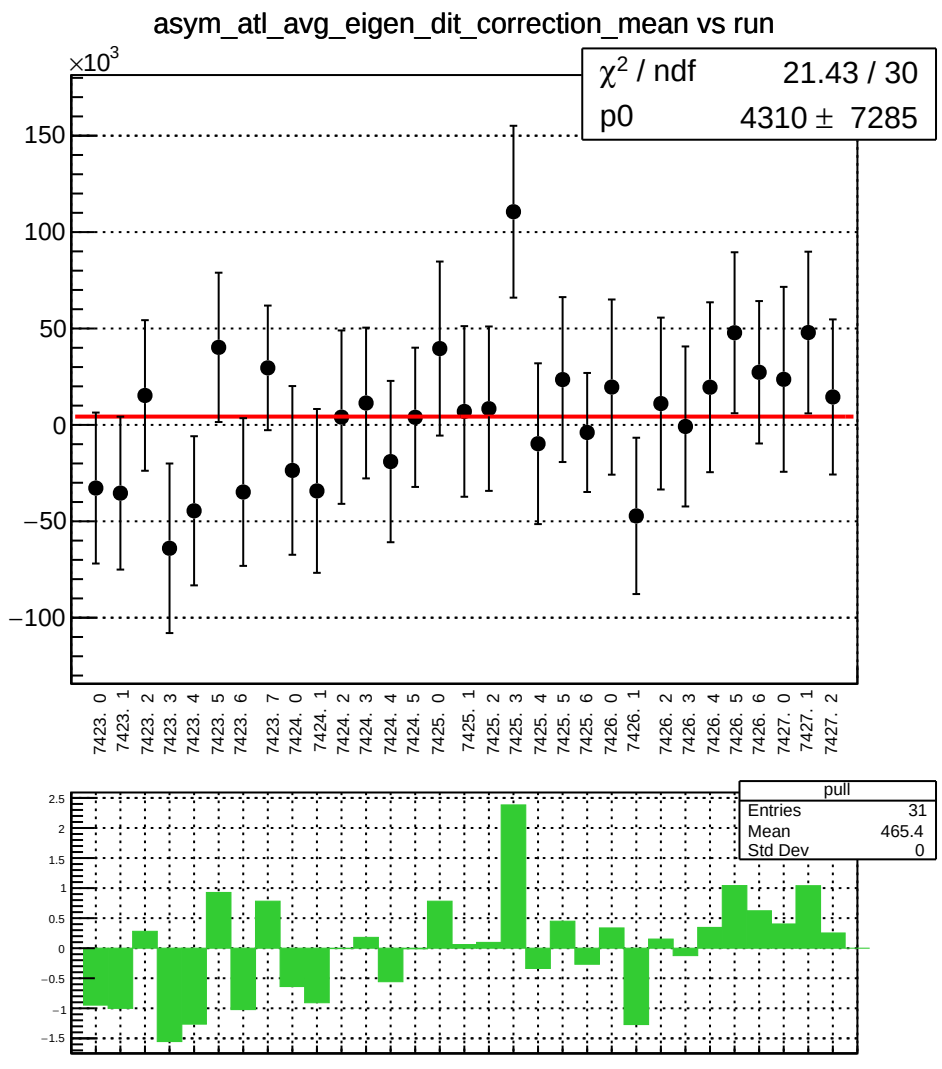

pull1D
Entries 31
Mean 0.007487
Std Dev 0.8314
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

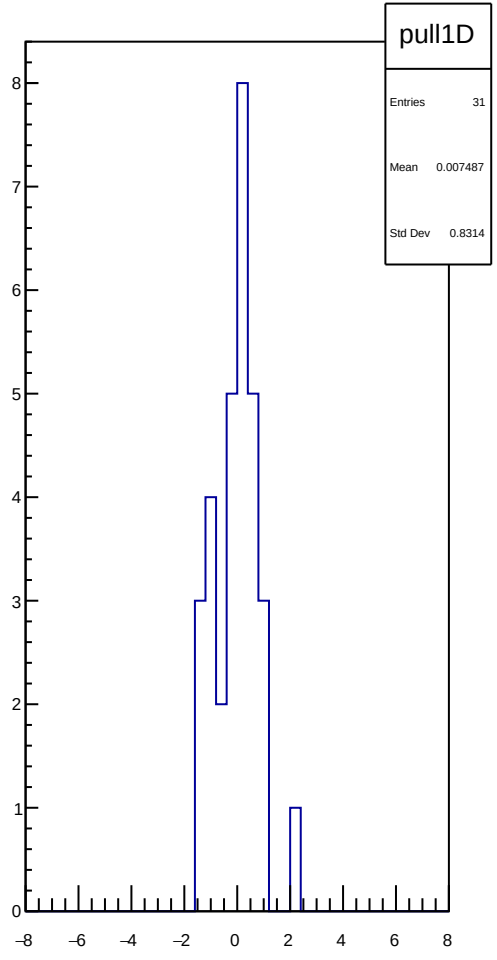

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 2025 / 30
p0 3968 ± 5.151
4600
4400
4200
4000
3800
3600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2


eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 19.03 / 30
p0 3836 ± 2979
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −25.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.01669
Std Dev 0.7834
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 145.2 / 30
p0 1625 ± 2.106
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 21.43 / 30
p0 4310 ± 7285
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 465.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean 0.007487
Std Dev 0.8314
8
7
6
5
4
3
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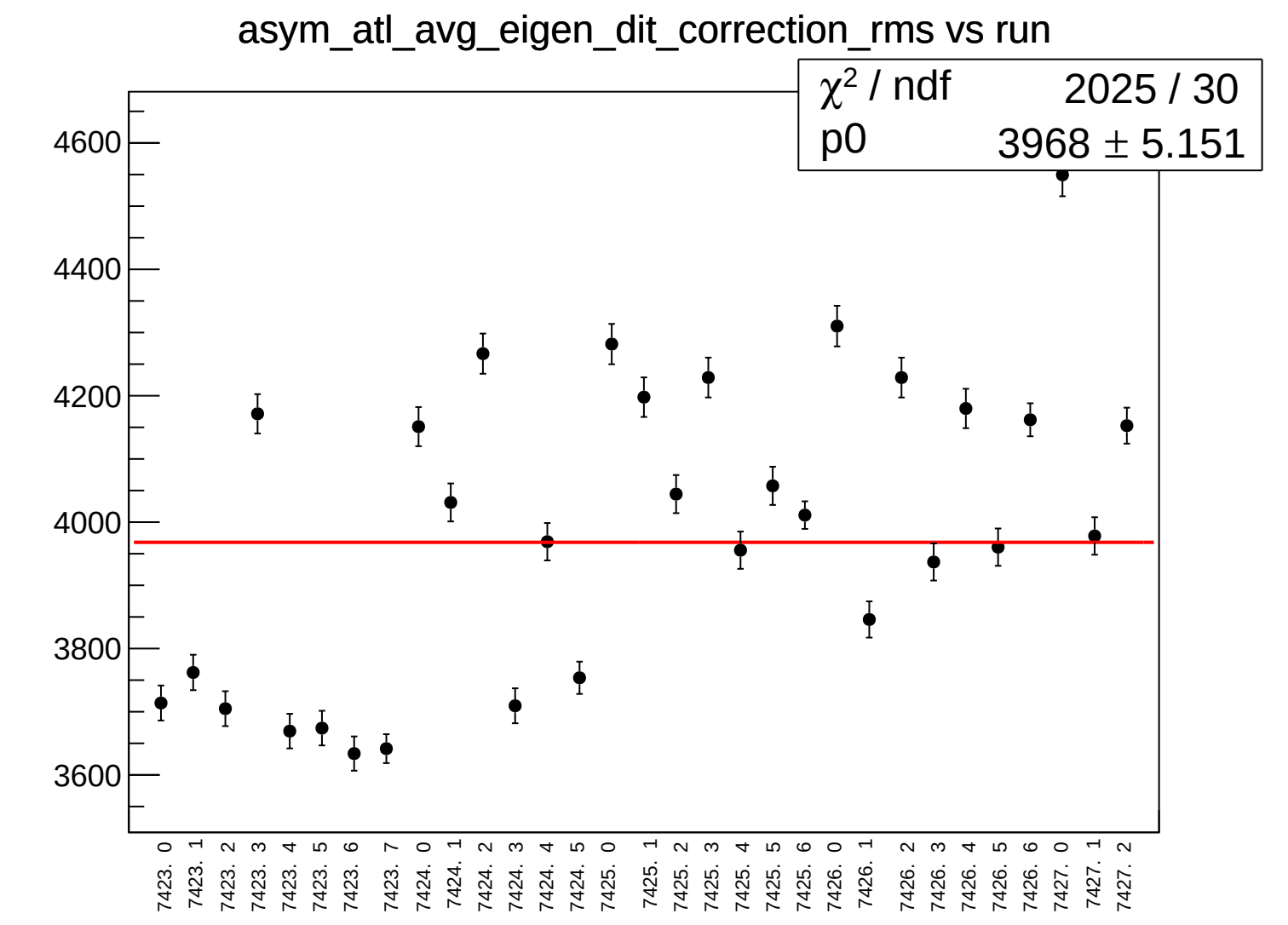
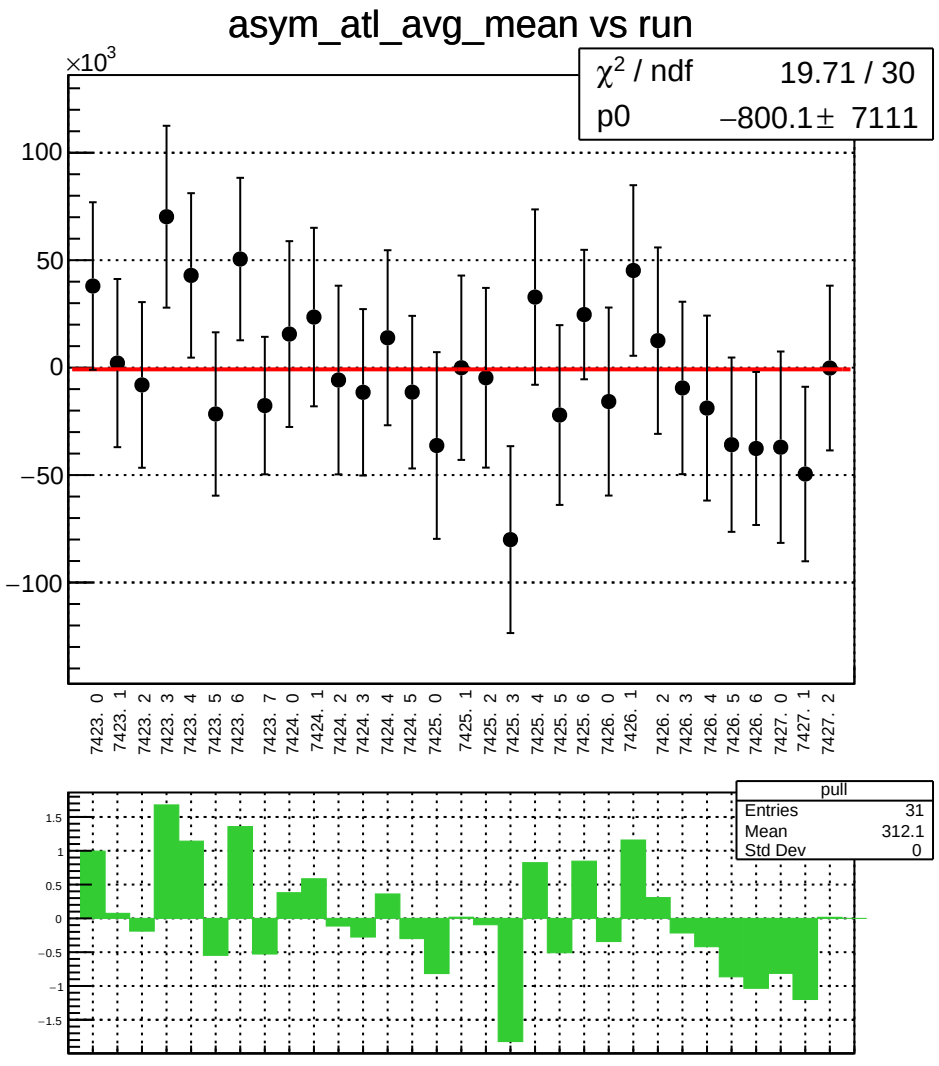
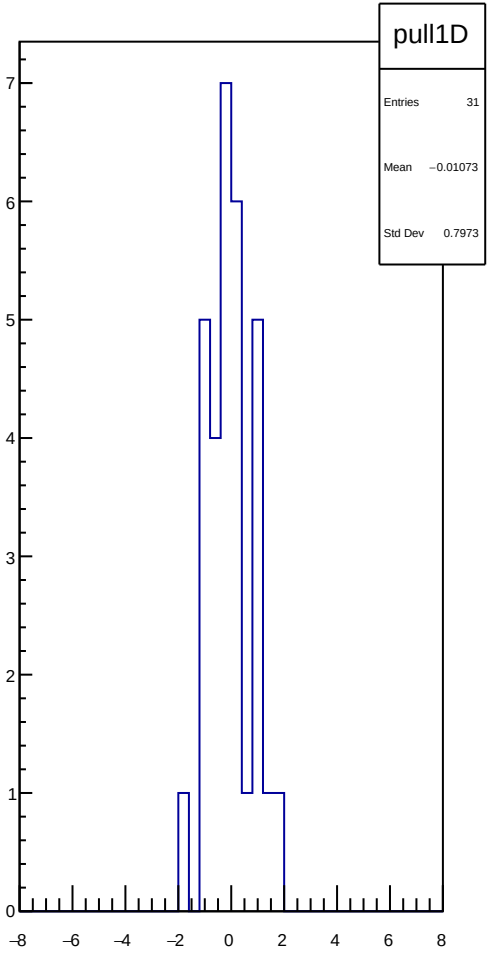
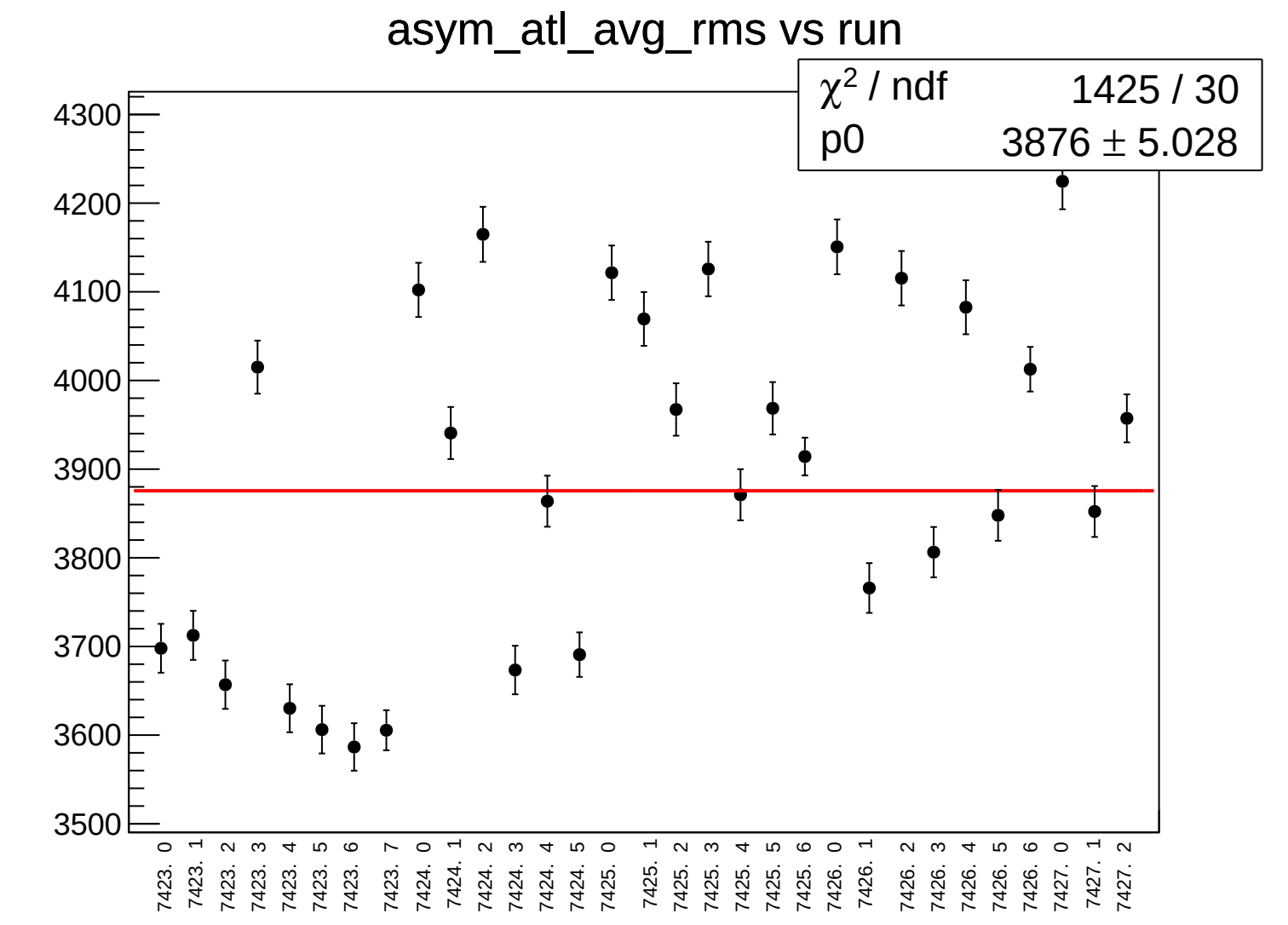
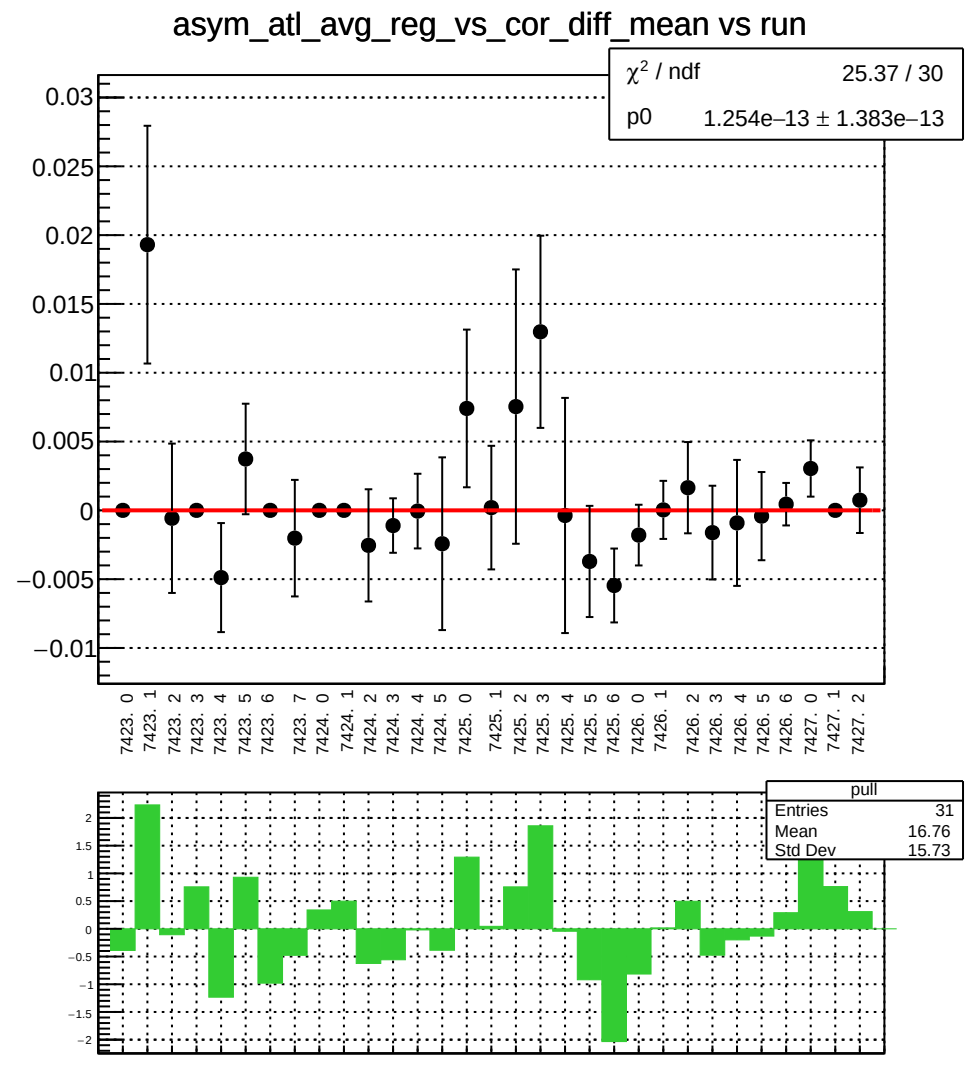
1
0
−8
−6
−4
−2
0
2
4
6
8

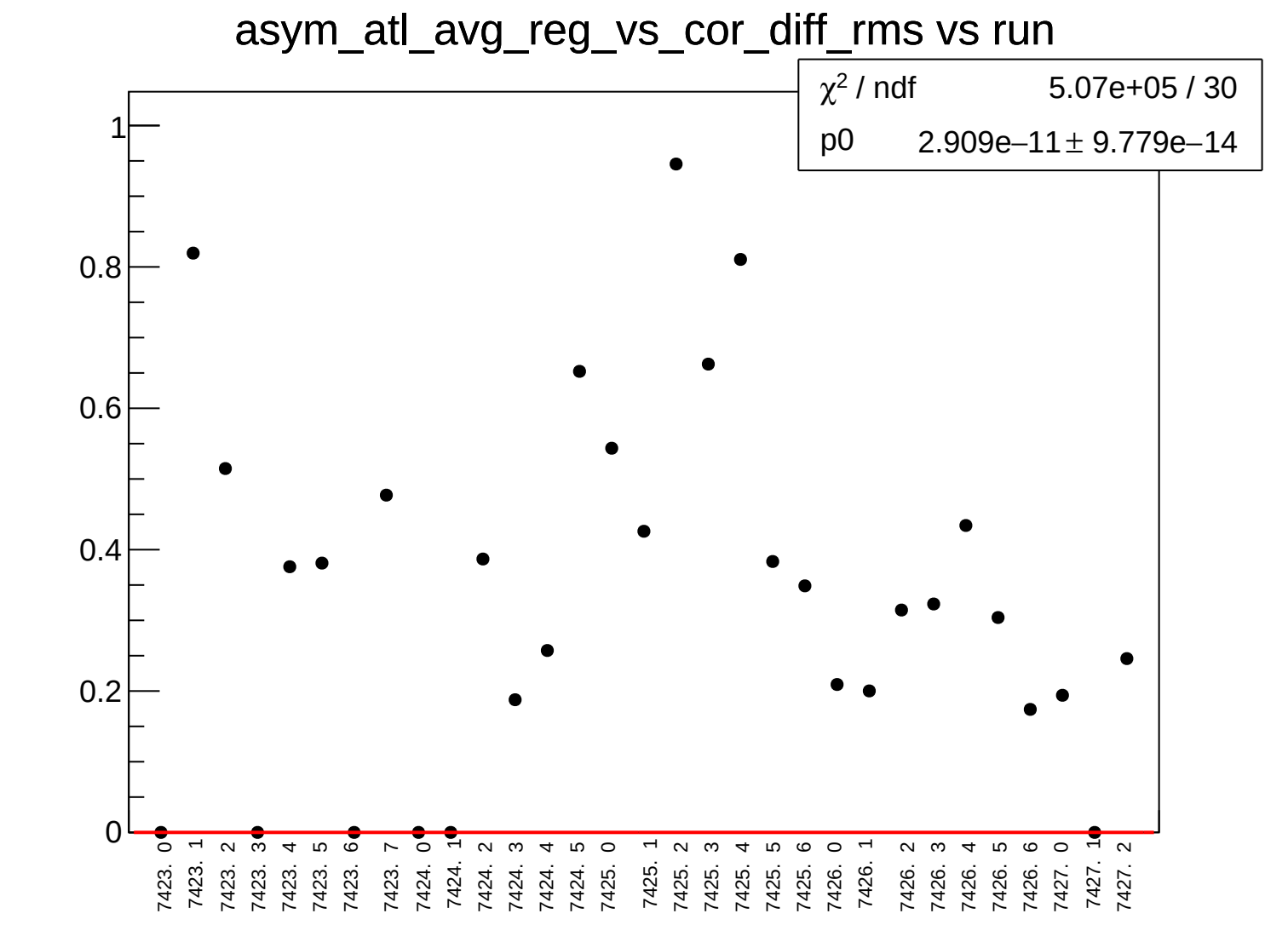

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 2025 / 30
p0 3968 ± 5.151
4600
4400
4200
4000
3800
3600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

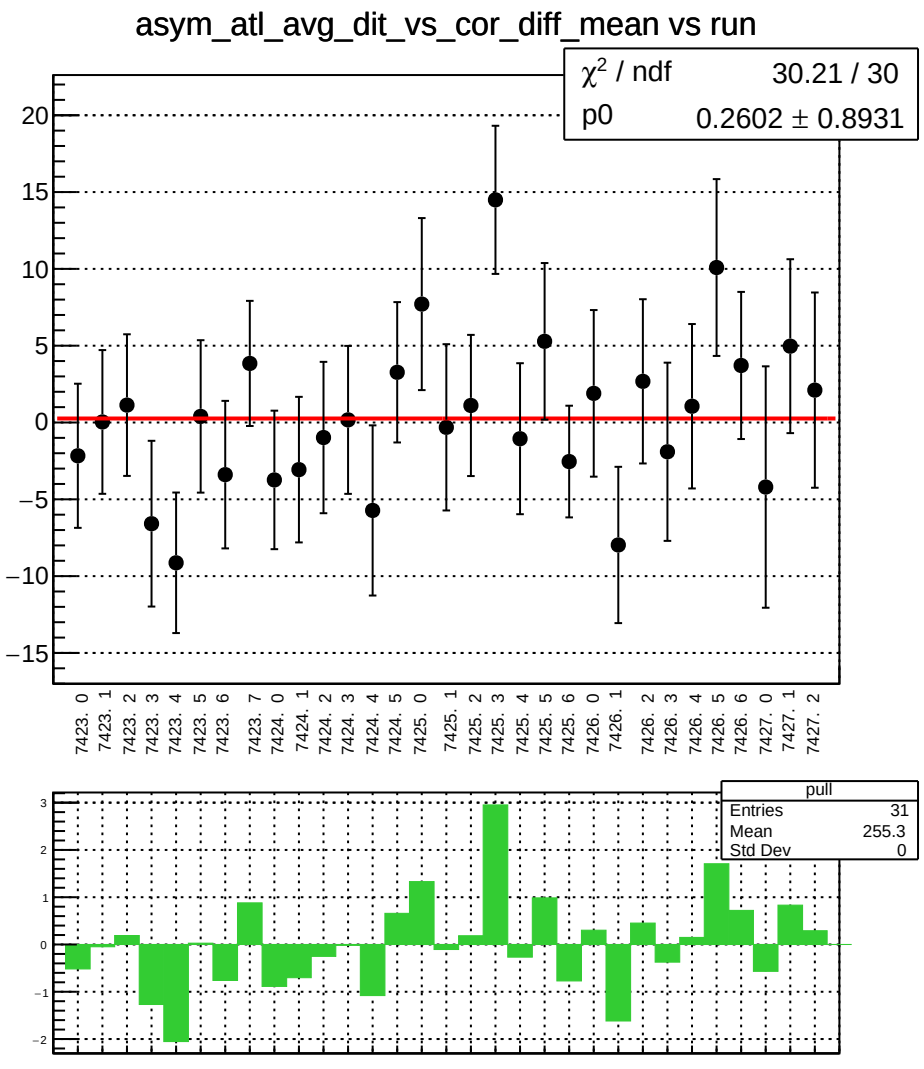

asym_atl_avg_mean vs run
×10^3
χ² / ndf 19.71 / 30
p0 −800.1± 7111
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 312.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

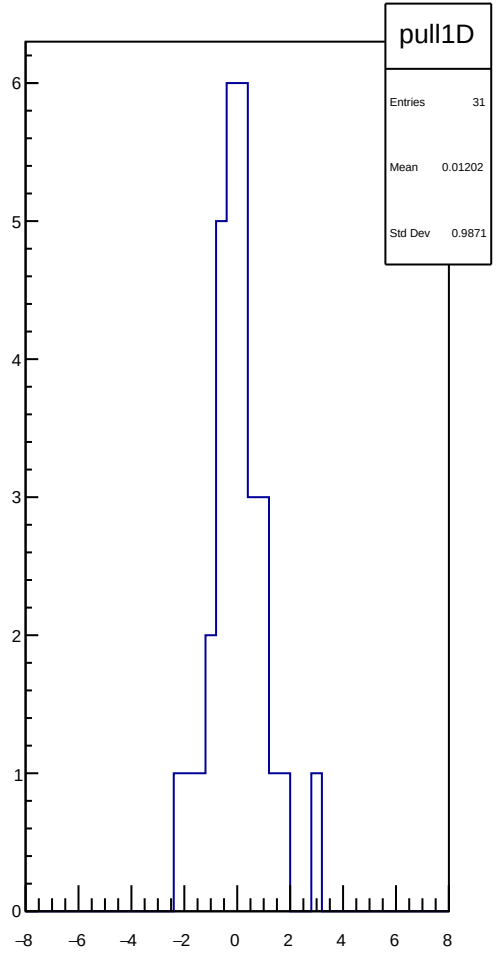

pull1D
Entries 31
Mean −0.01073
Std Dev 0.7973
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

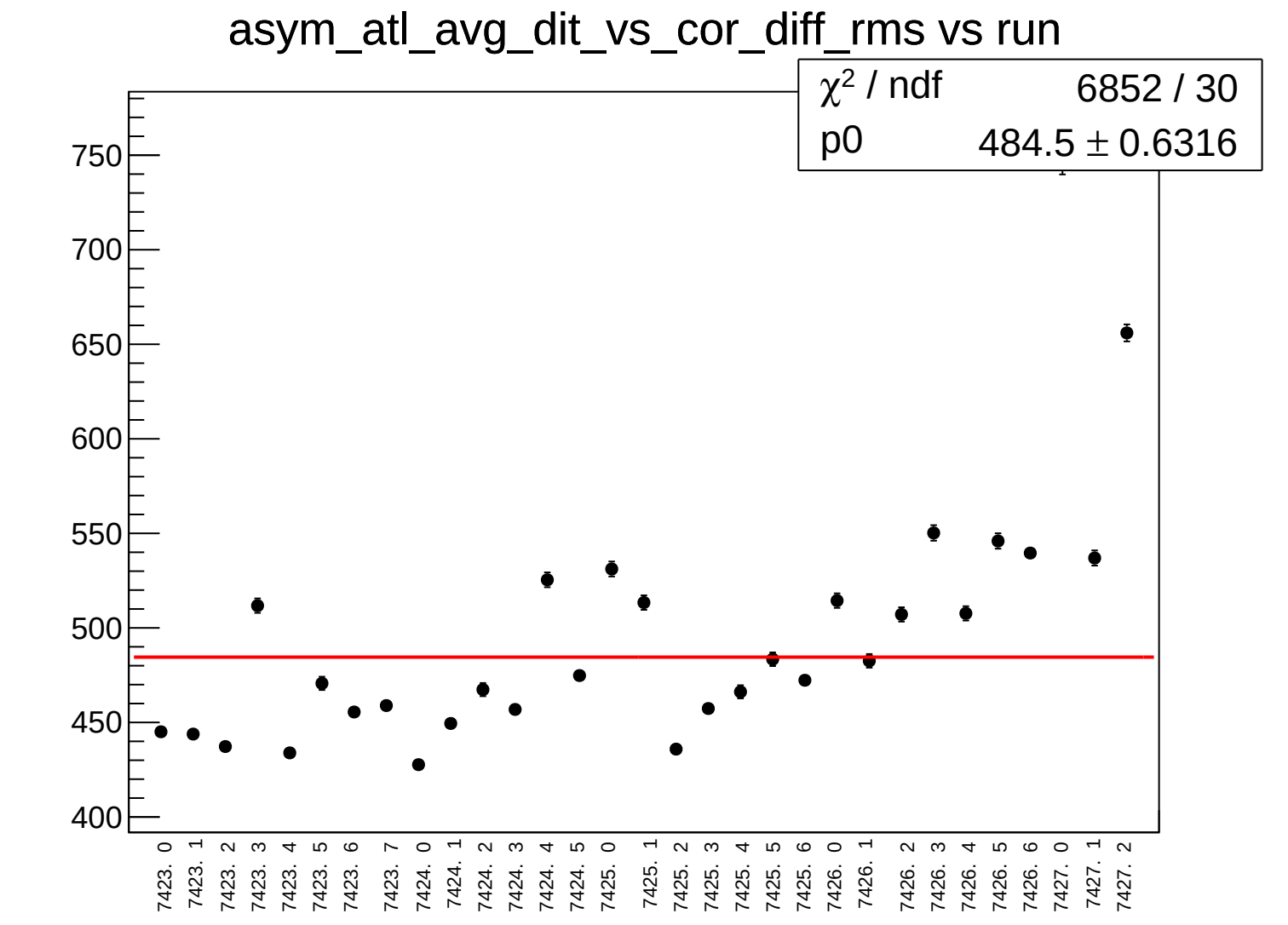

asym_atl_avg_rms vs run
χ² / ndf 1425 / 30
p0 3876 ± 5.028
4300
4200
4100
4000
3900
3800
3700
3600
3500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

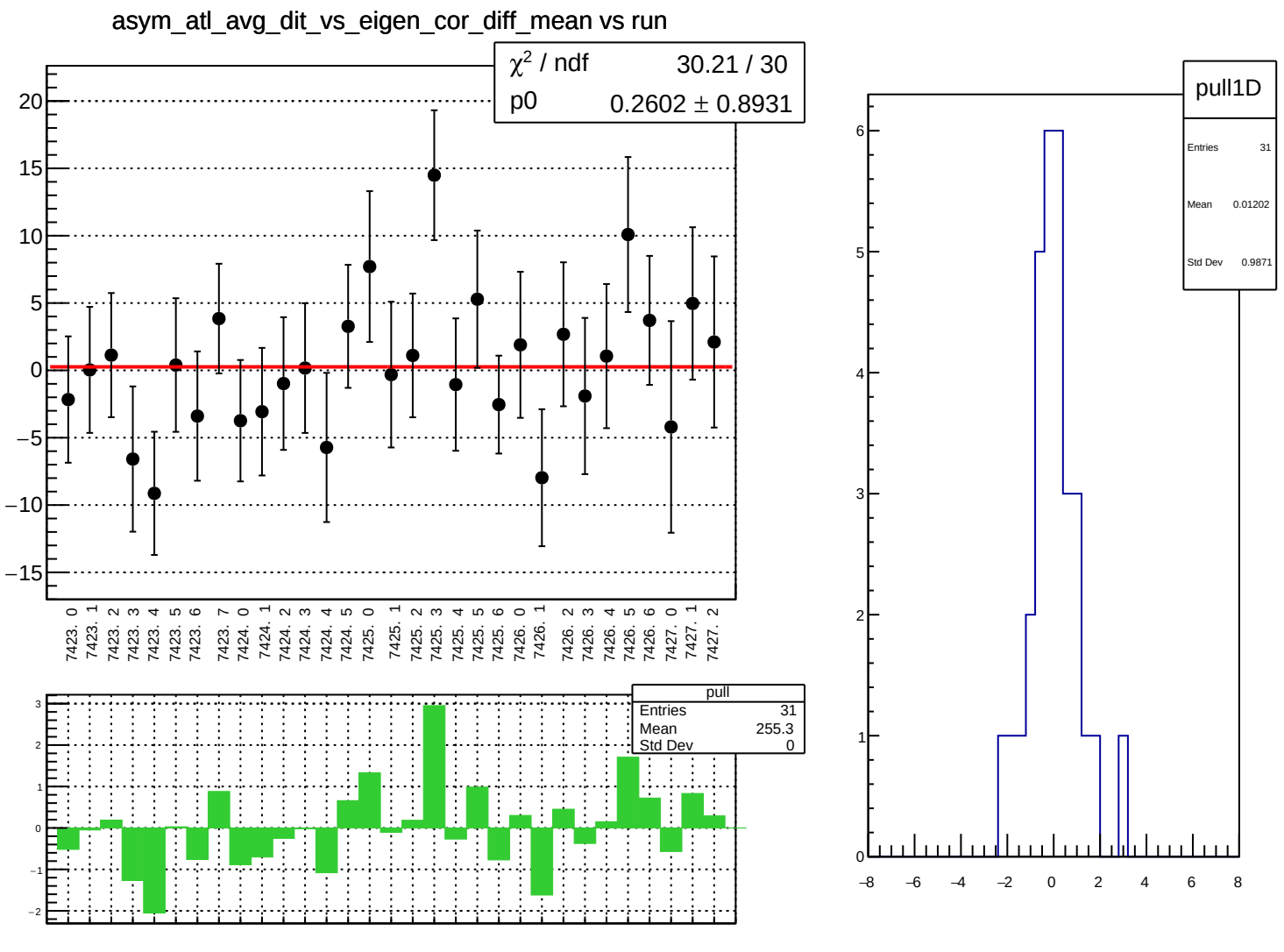

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.37 / 30
p0 1.254e−13 ± 1.383e−13
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.76
Std Dev 15.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.08659
Std Dev 0.9004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

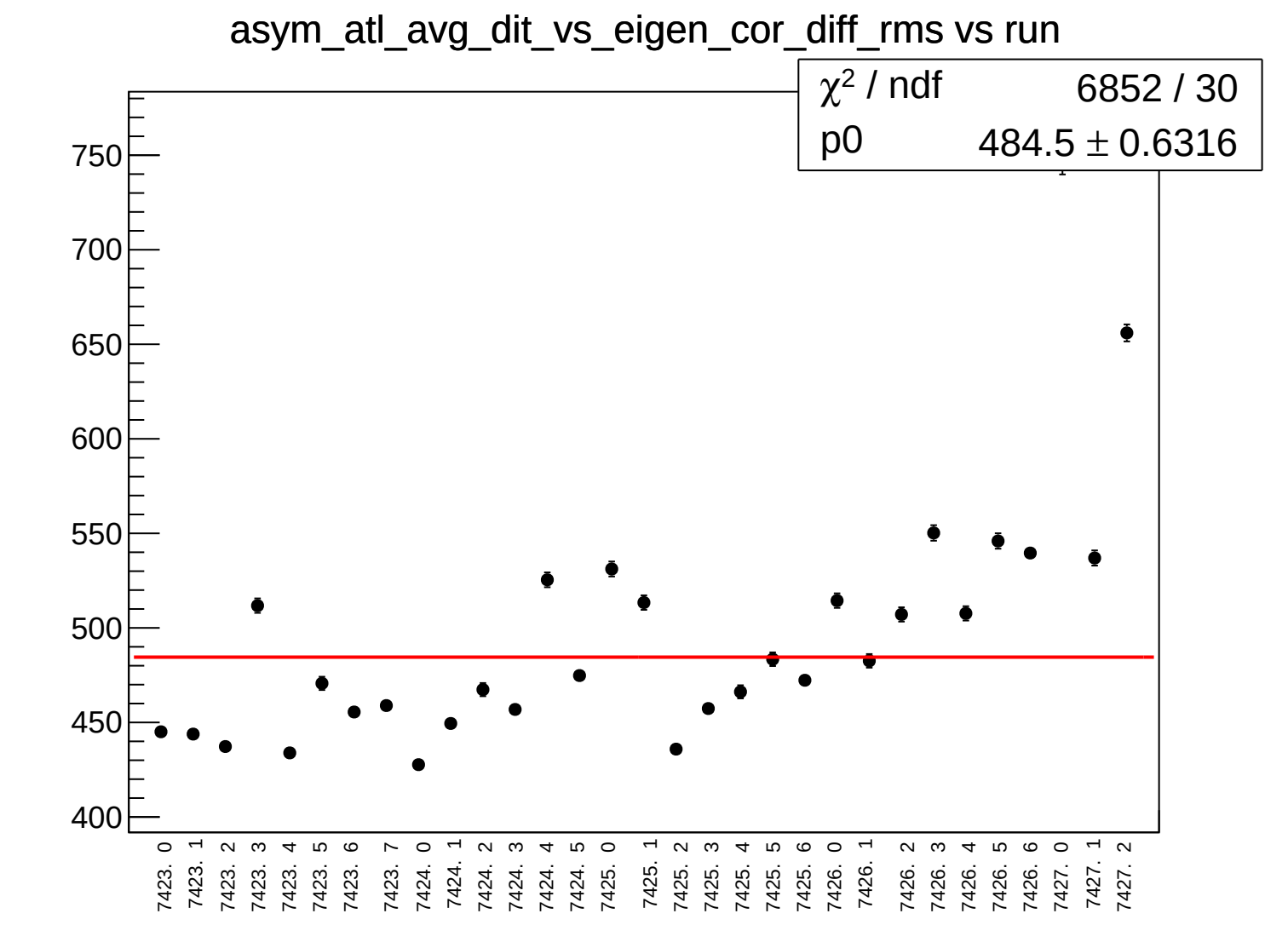

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.07e+05 / 30
p0 2.909e−11 ± 9.779e−14
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

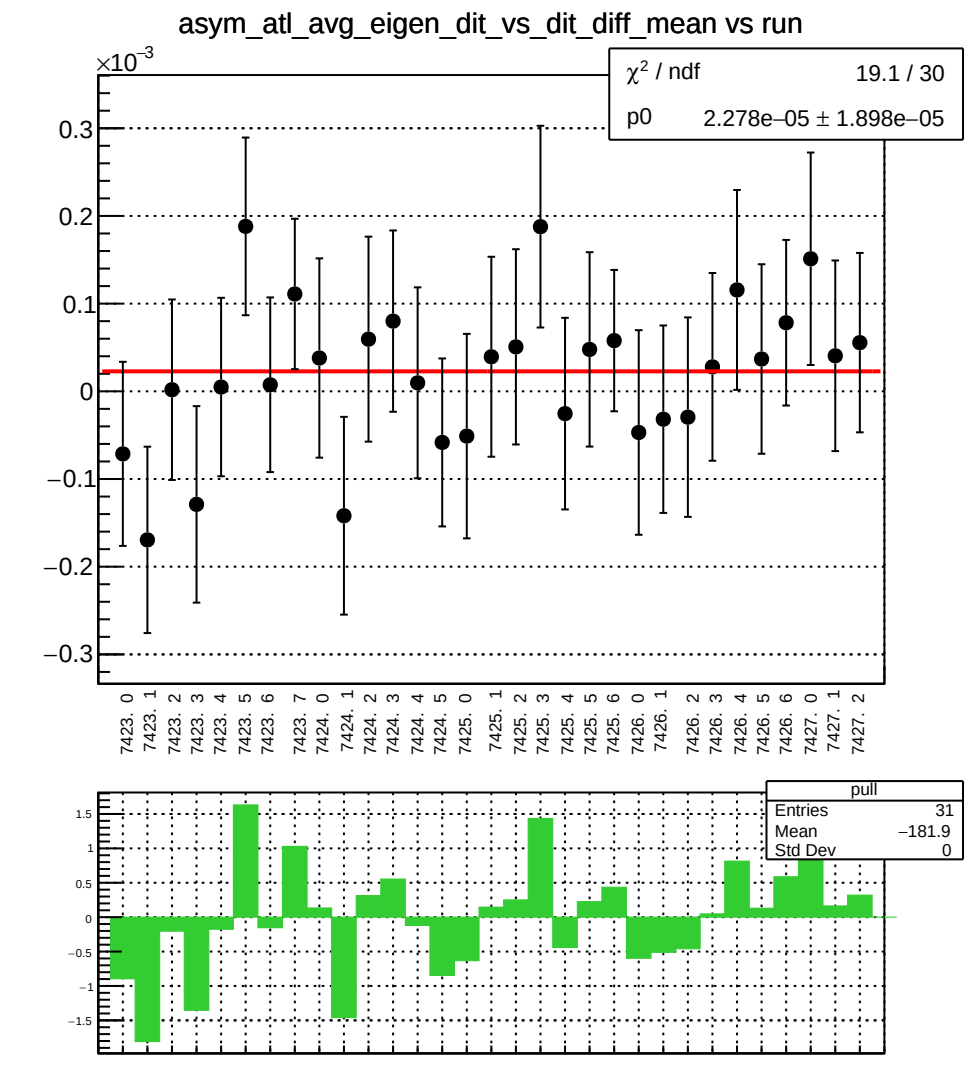

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 30.21 / 30
p0 0.2602 ± 0.8931
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 255.3
Std Dev 0
3
2
1
0
−1
−2

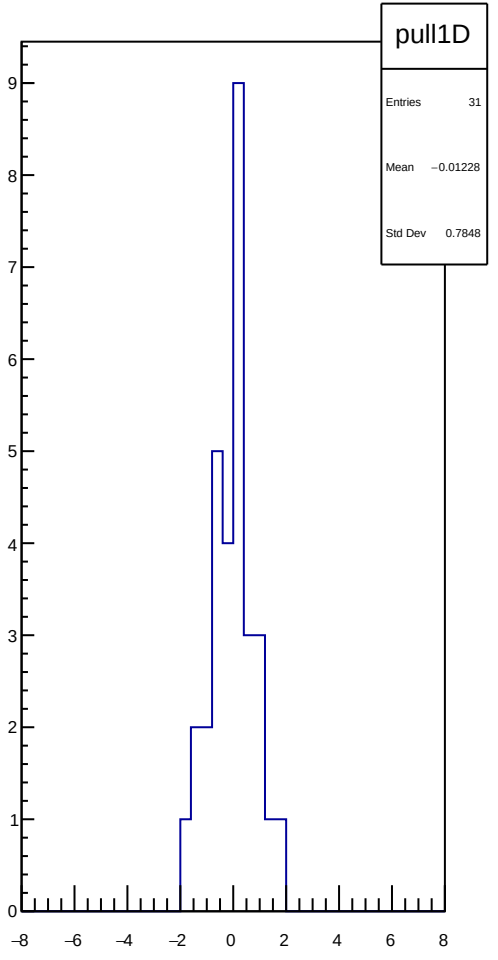

pull1D
Entries 31
Mean 0.01202
Std Dev 0.9871
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

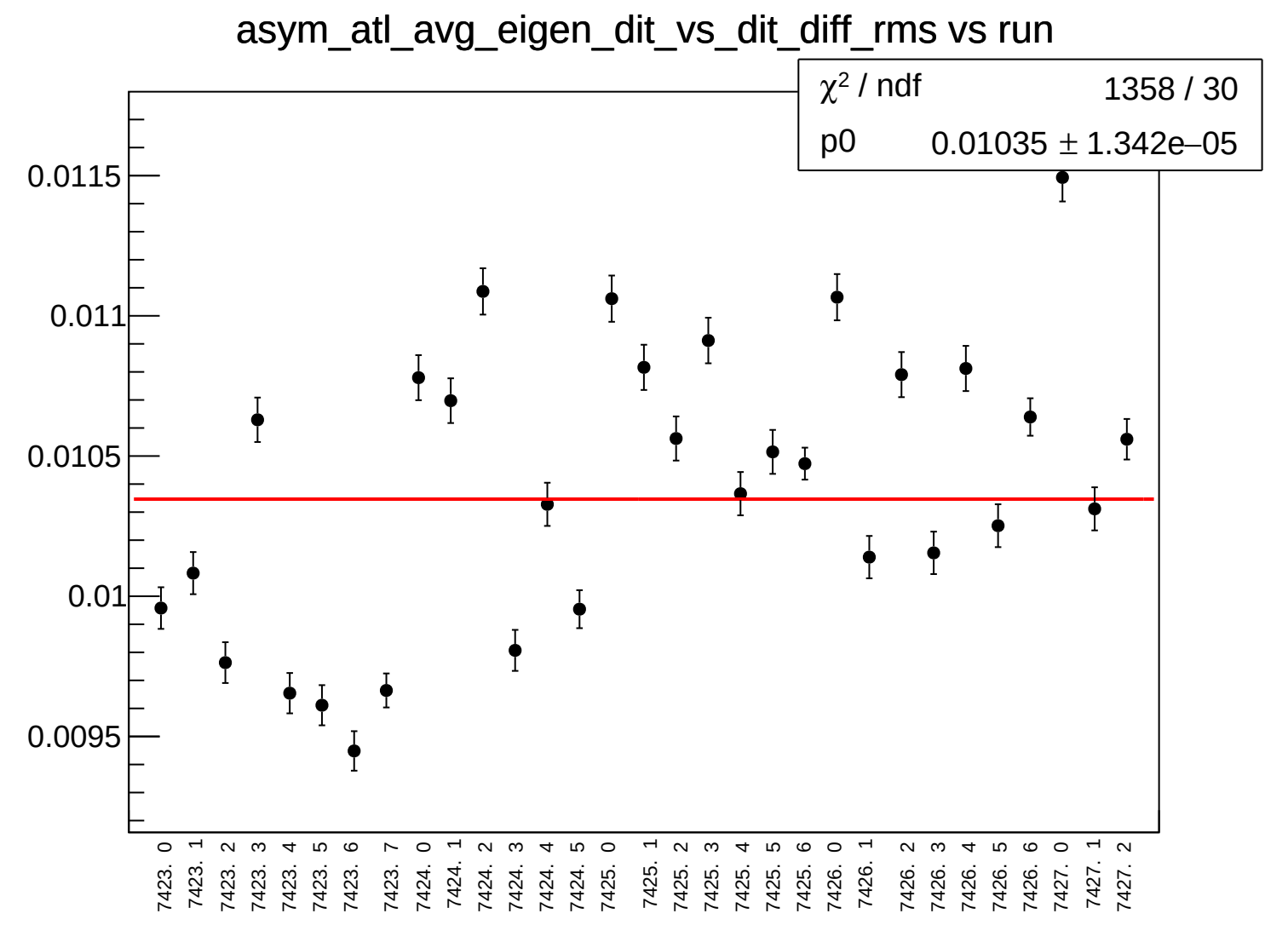

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6852 / 30
p0 484.5 ± 0.6316
750
700
650
600
550
500
450
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

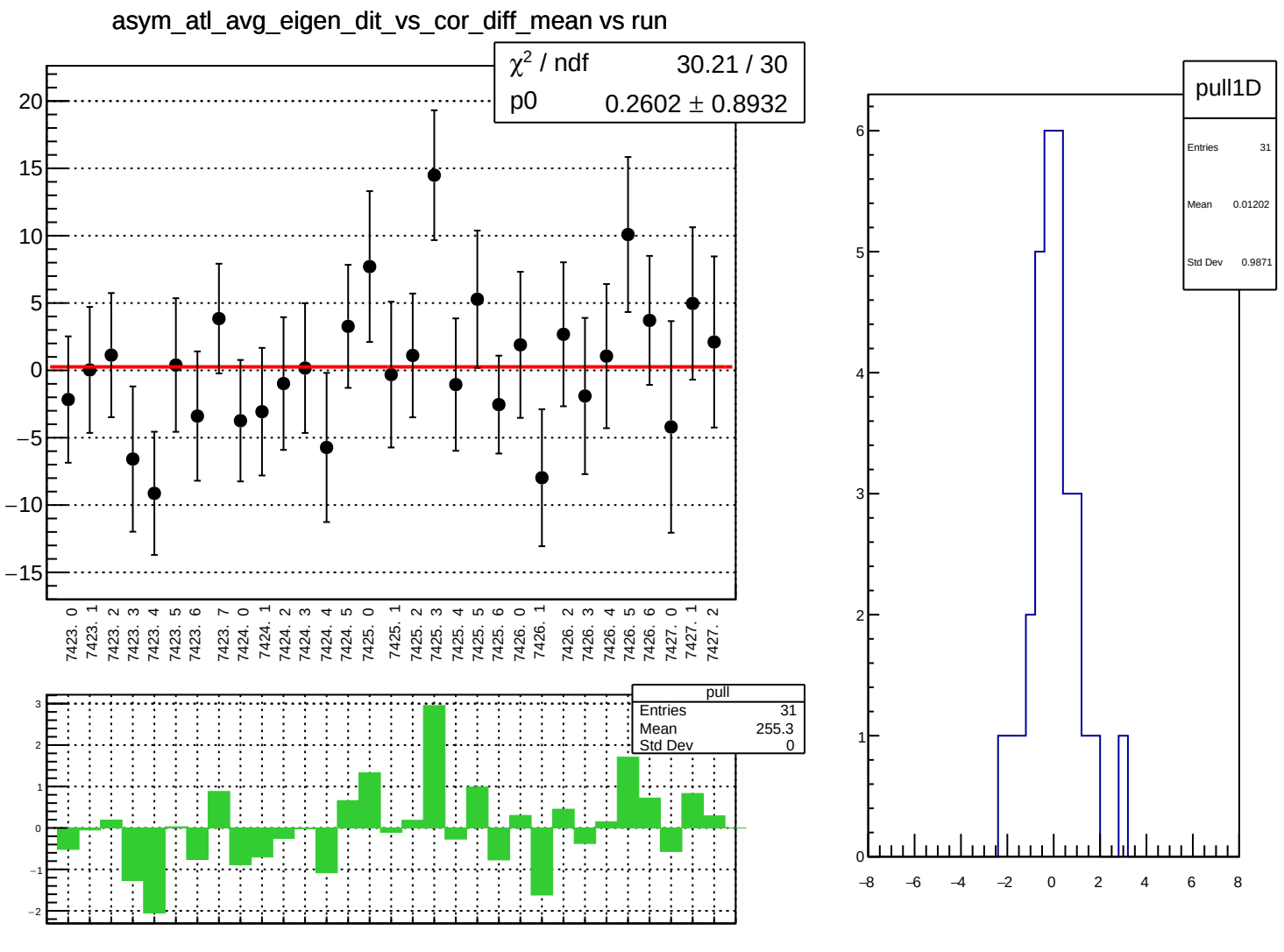

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.21 / 30
p0 0.2602 ± 0.8931
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 255.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.01202
Std Dev 0.9871
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

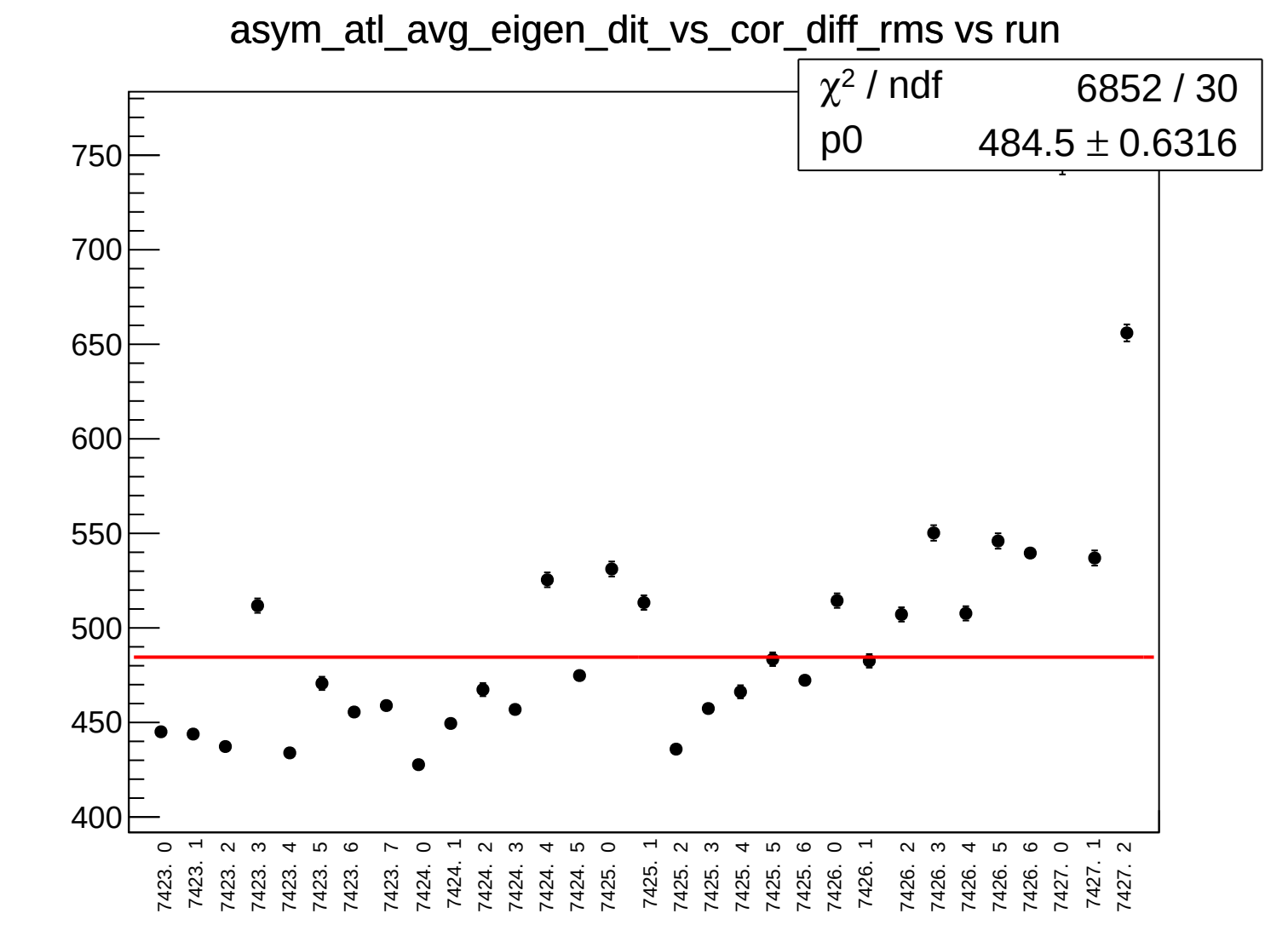

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6852 / 30
p0 484.5 ± 0.6316
750
700
650
600
550
500
450
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

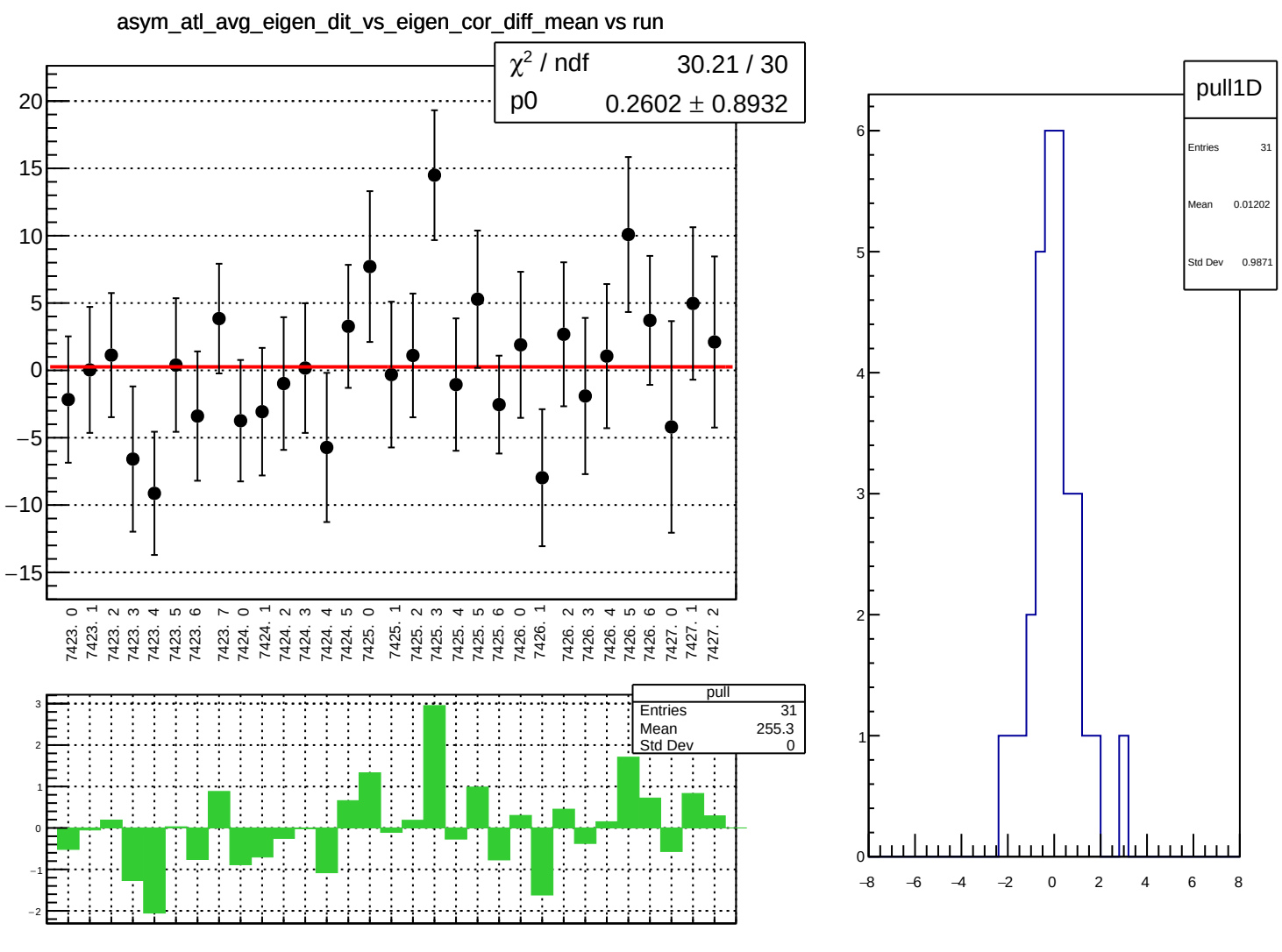

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.1 / 30
p0 2.278e−05 ± 1.898e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −181.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

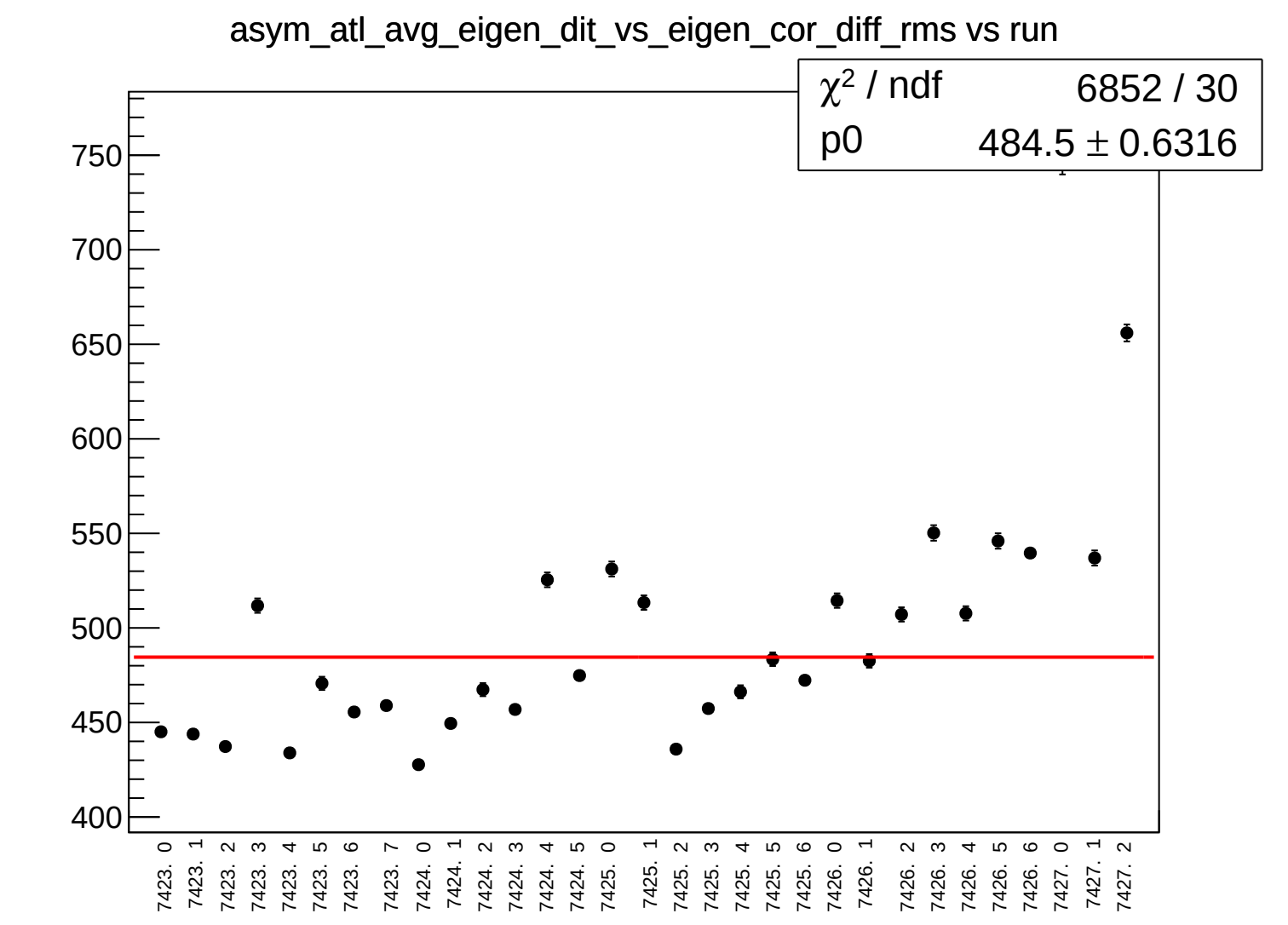

pull1D
Entries 31
Mean −0.01228
Std Dev 0.7848
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

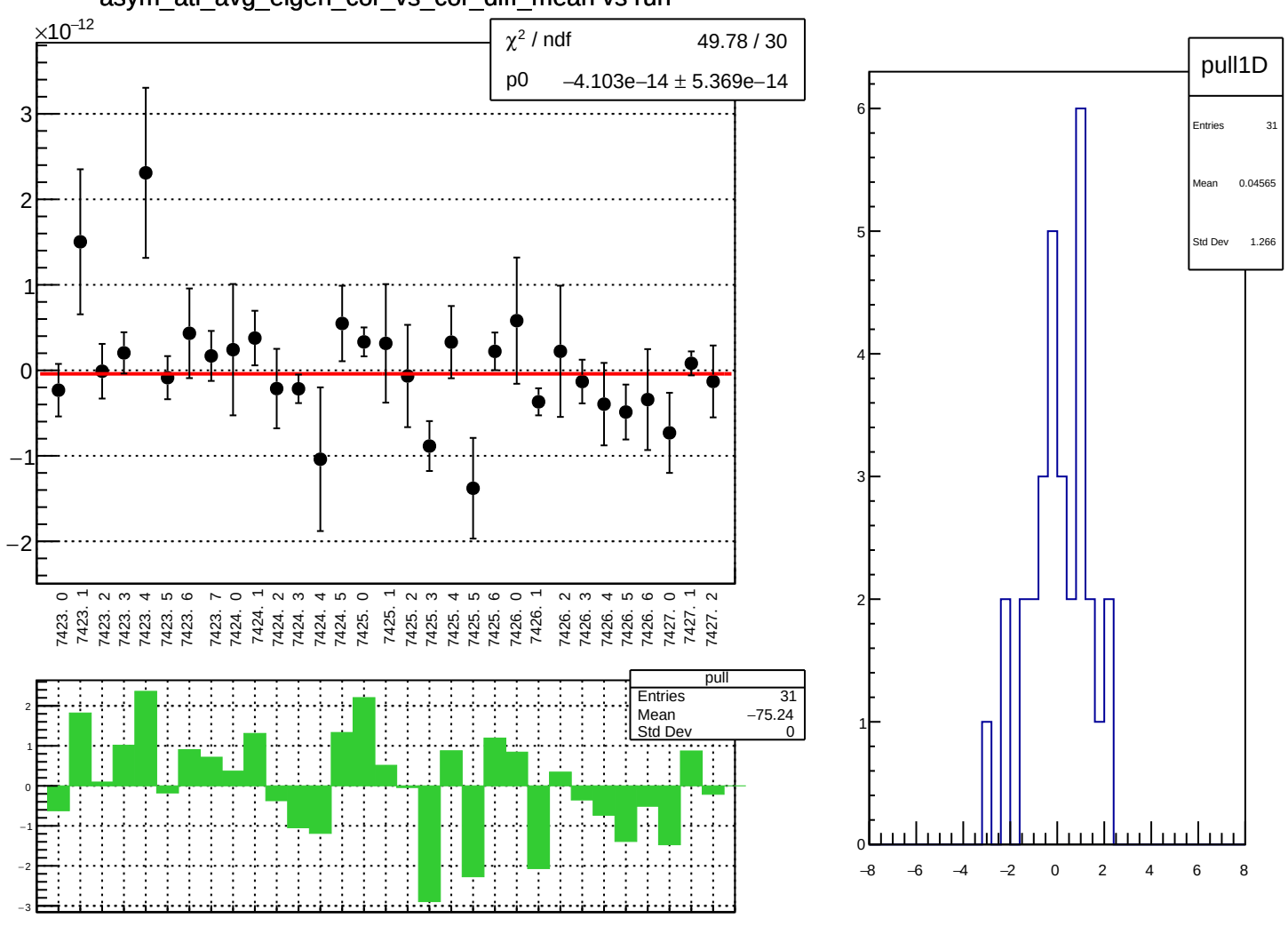

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1358 / 30
p0 0.01035 ± 1.342e–05
0.0115
0.011
0.0105
0.01
0.0095
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

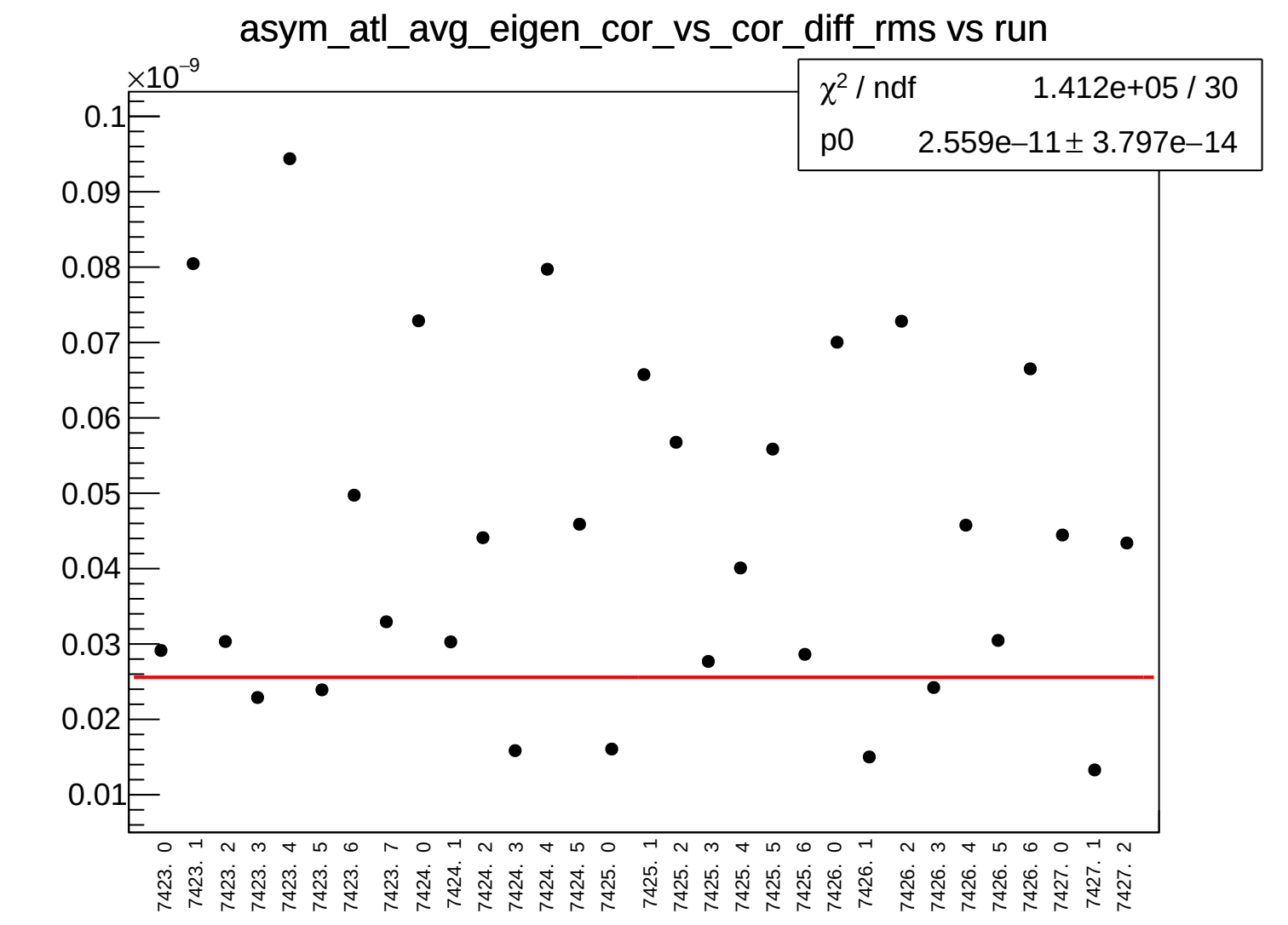

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.21 / 30
p0 0.2602 ± 0.8932
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 255.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.01202
Std Dev 0.9871
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

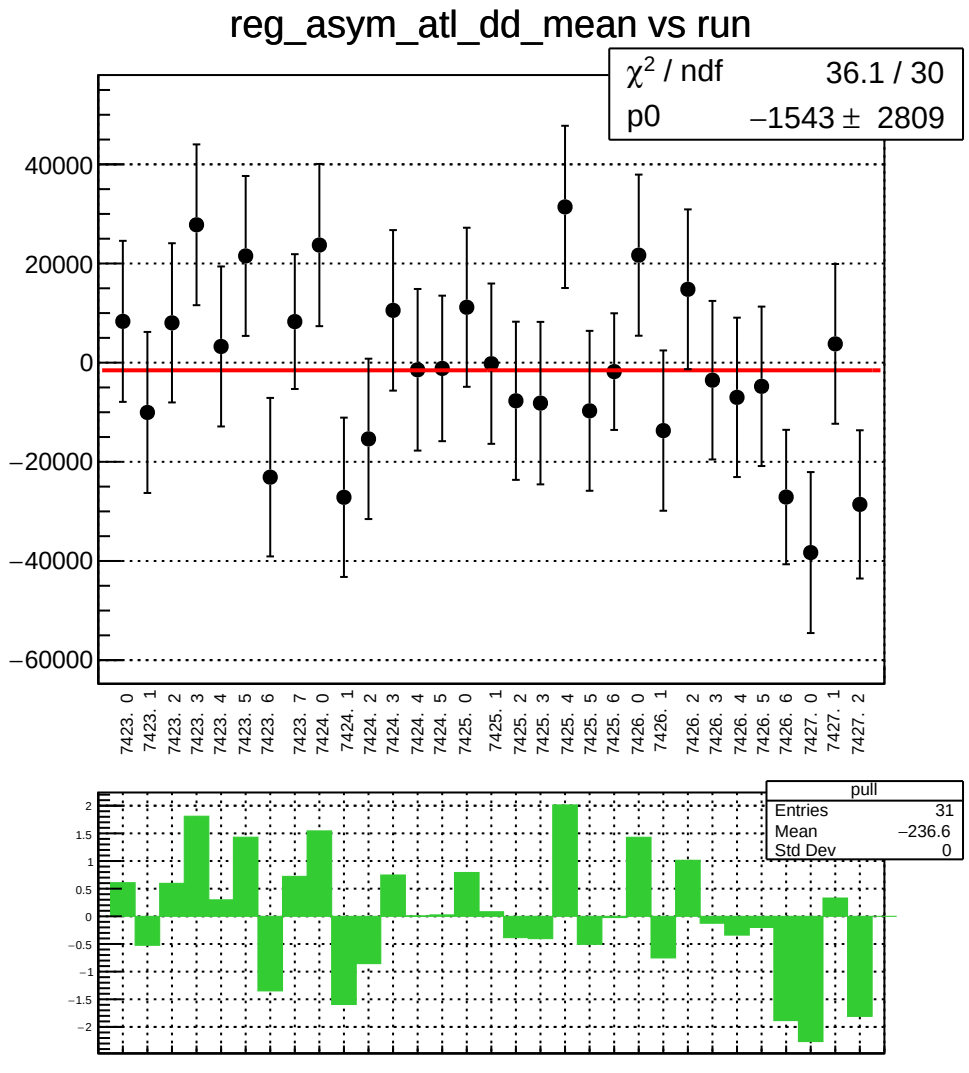

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6852 / 30
p0 484.5 ± 0.6316
750
700
650
600
550
500
450
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

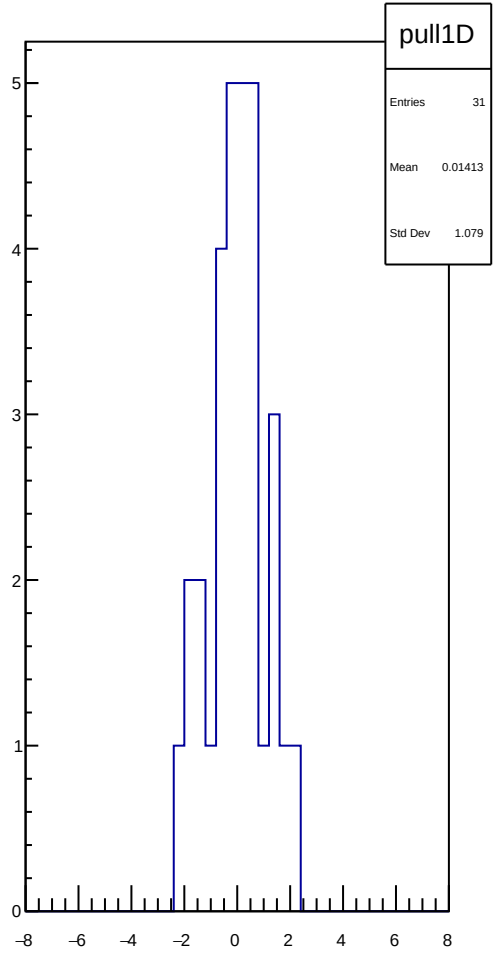

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.21 / 30
p0 0.2602 ± 0.8932
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 255.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.01202
Std Dev 0.9871
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

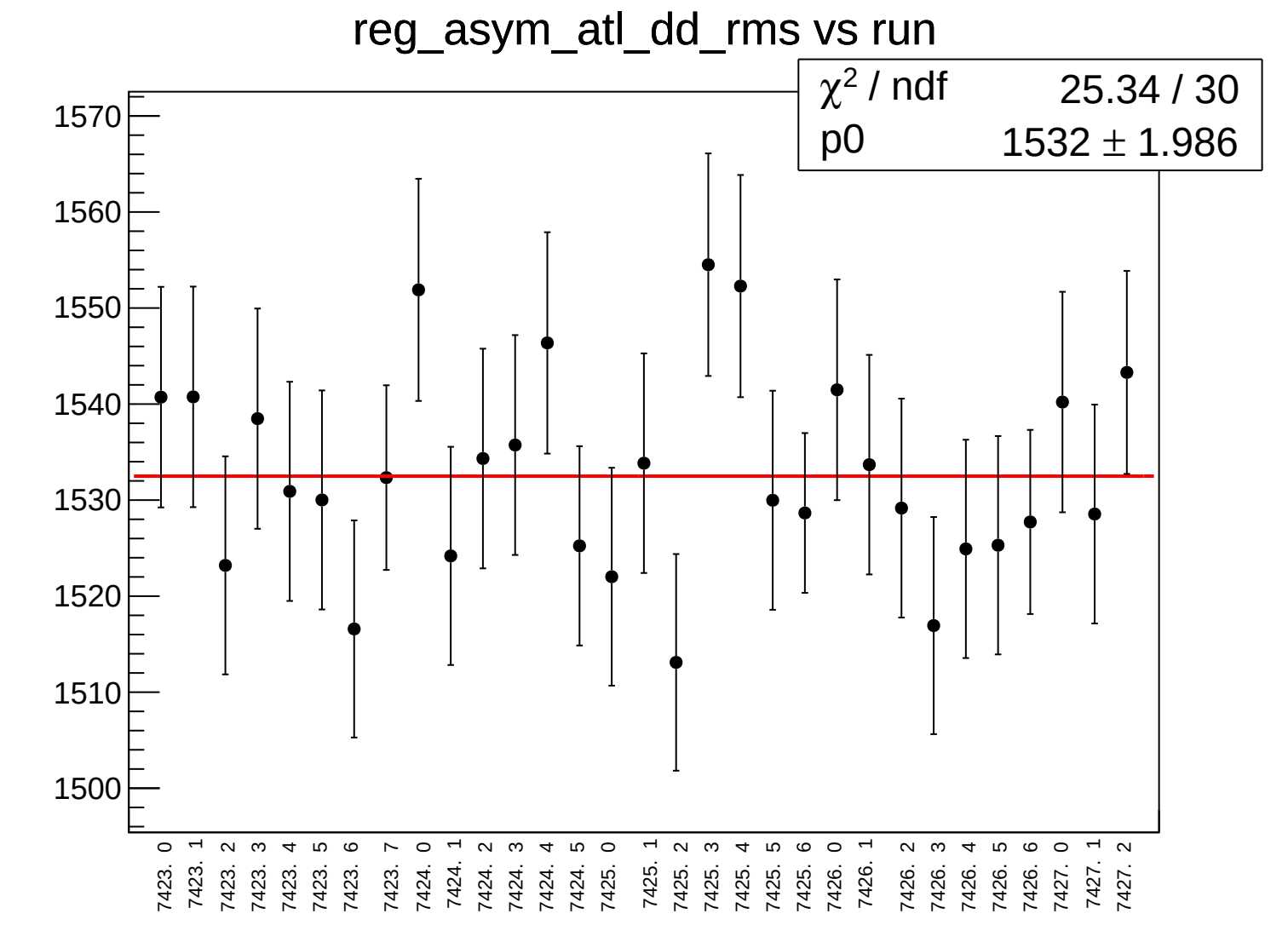

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6852 / 30
p0 484.5 ± 0.6316
750
700
650
600
550
500
450
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

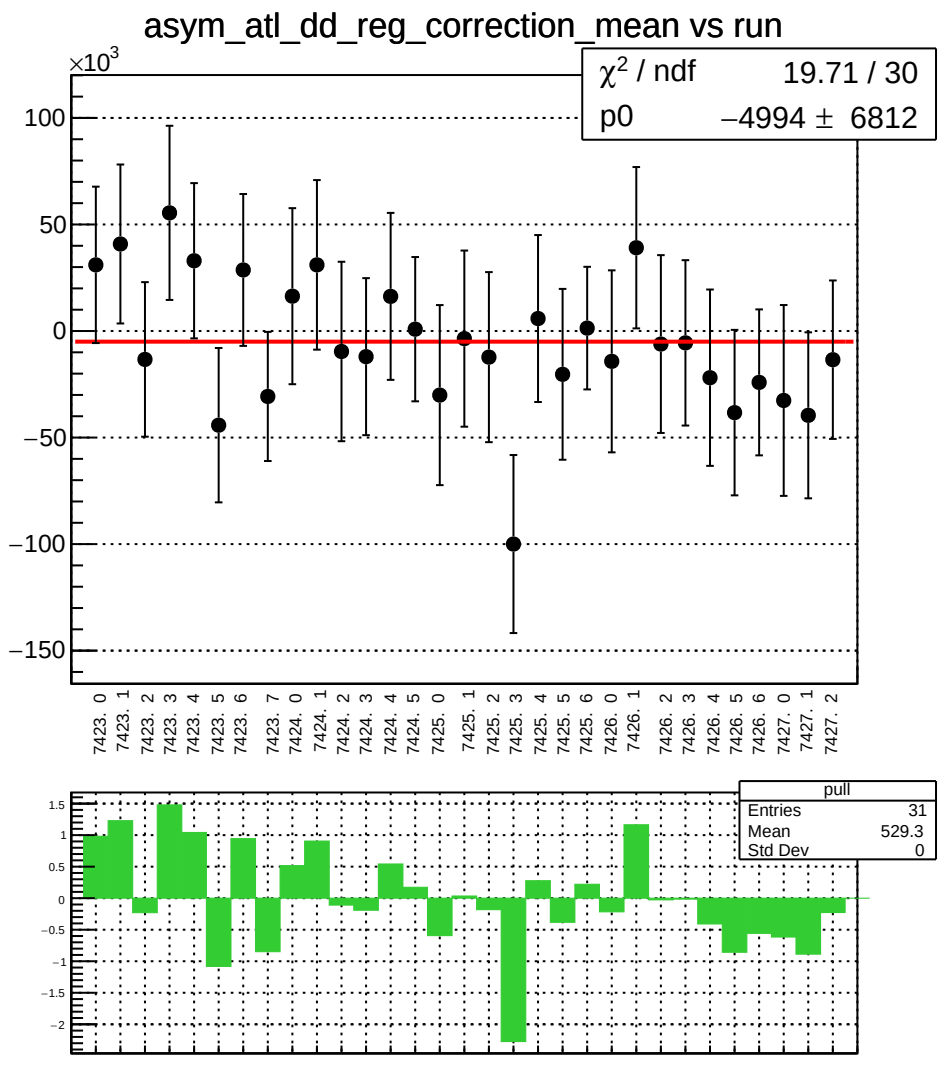

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49.78 / 30
p0 −4.103e−14 ± 5.369e−14
3
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −75.24
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.04565
Std Dev 1.266
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

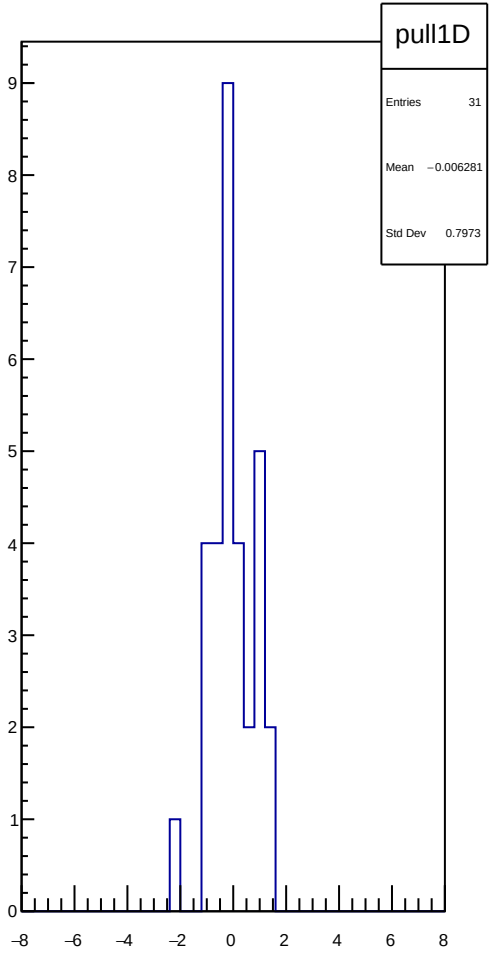

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.412e+05 / 30
p0 2.559e−11 ± 3.797e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

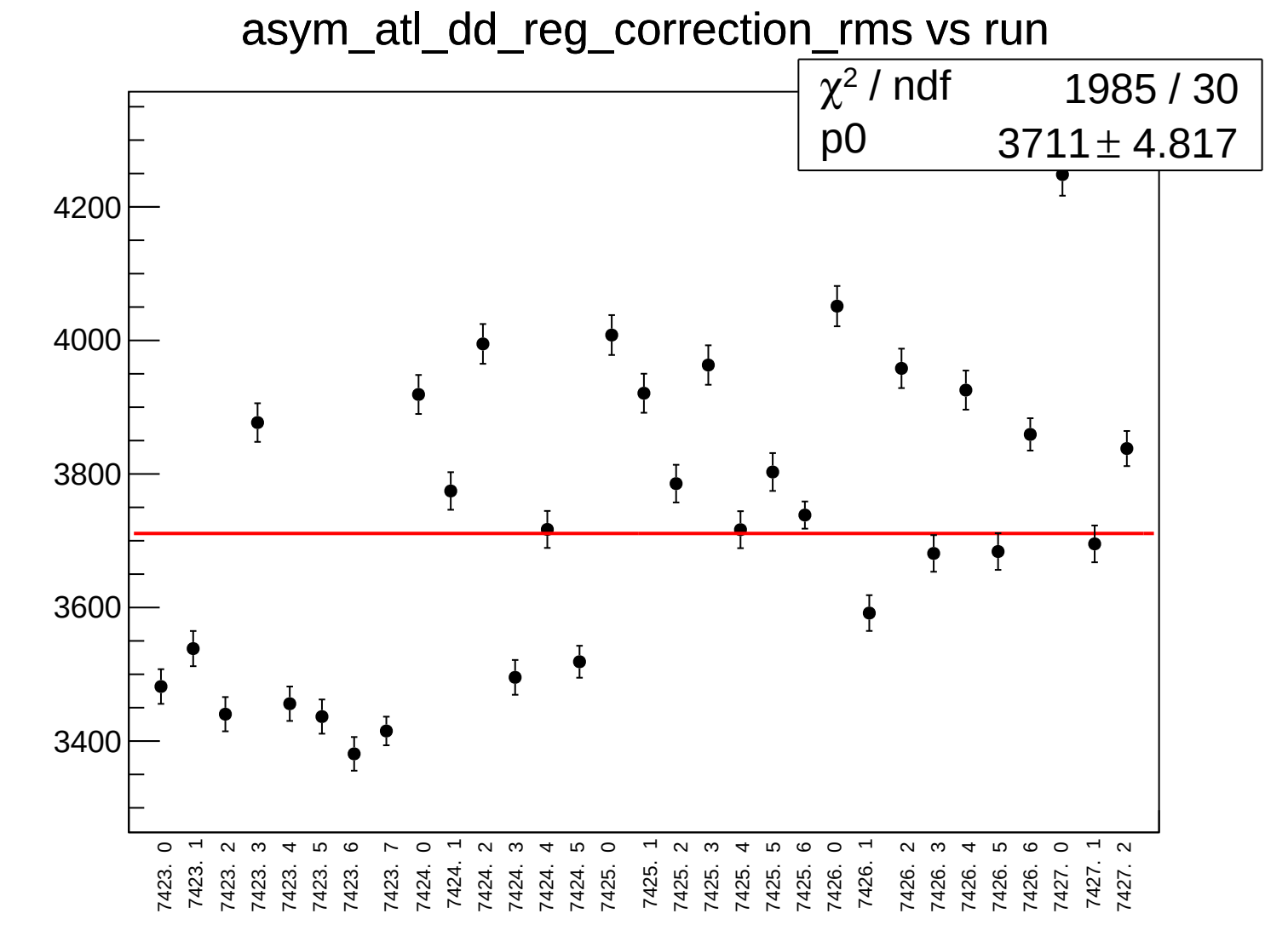

reg_asym_atl_dd_mean vs run
χ² / ndf 36.1 / 30
p0 −1543 ± 2809
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −236.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

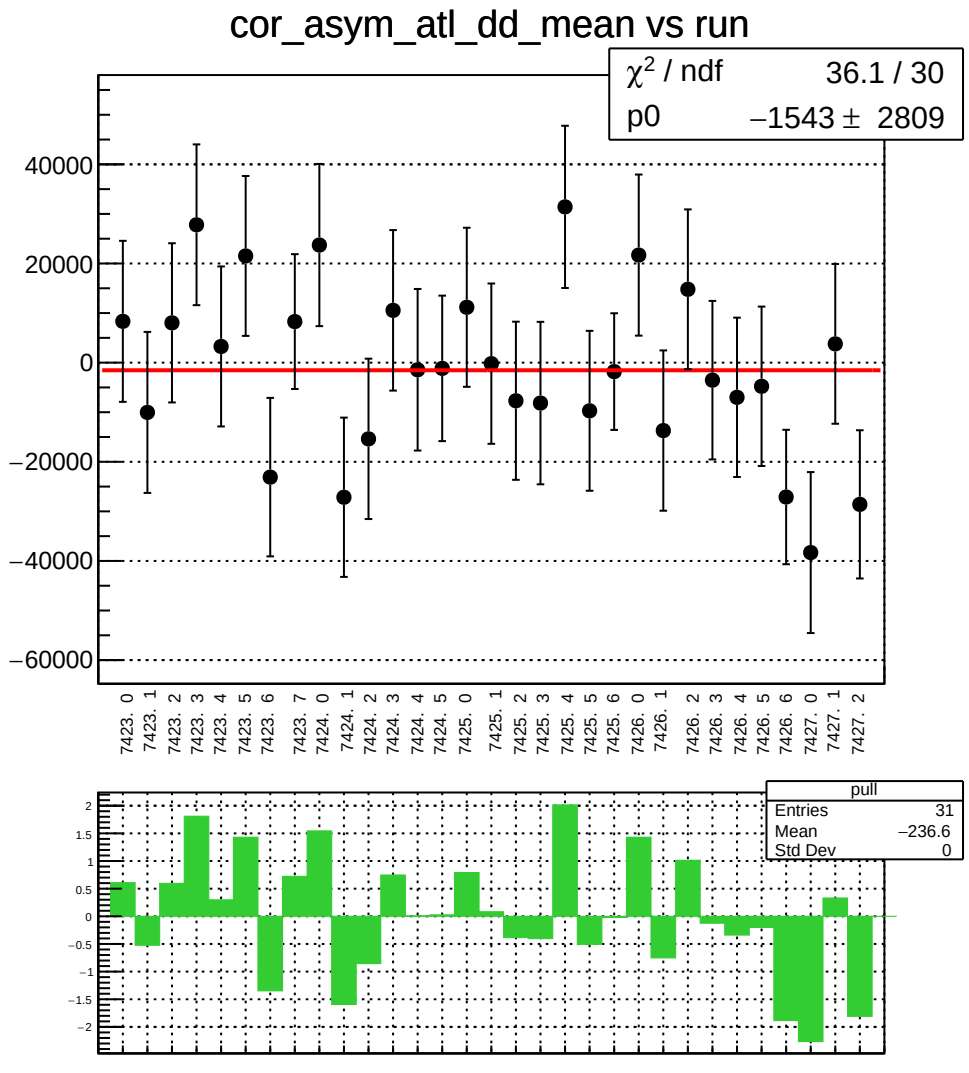

pull1D
Entries 31
Mean 0.01413
Std Dev 1.079
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

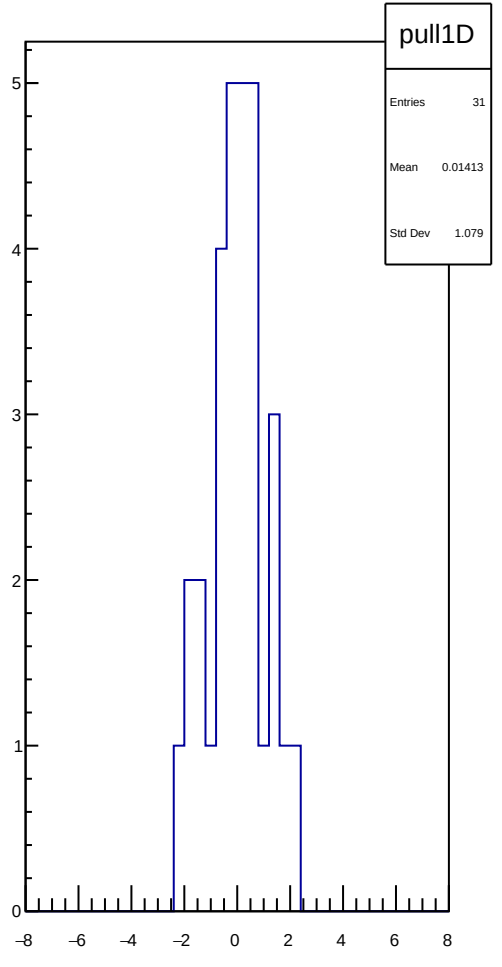

reg_asym_atl_dd_rms vs run
χ² / ndf 25.34 / 30
p0 1532 ± 1.986
1570
1560
1550
1540
1530
1520
1510
1500
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

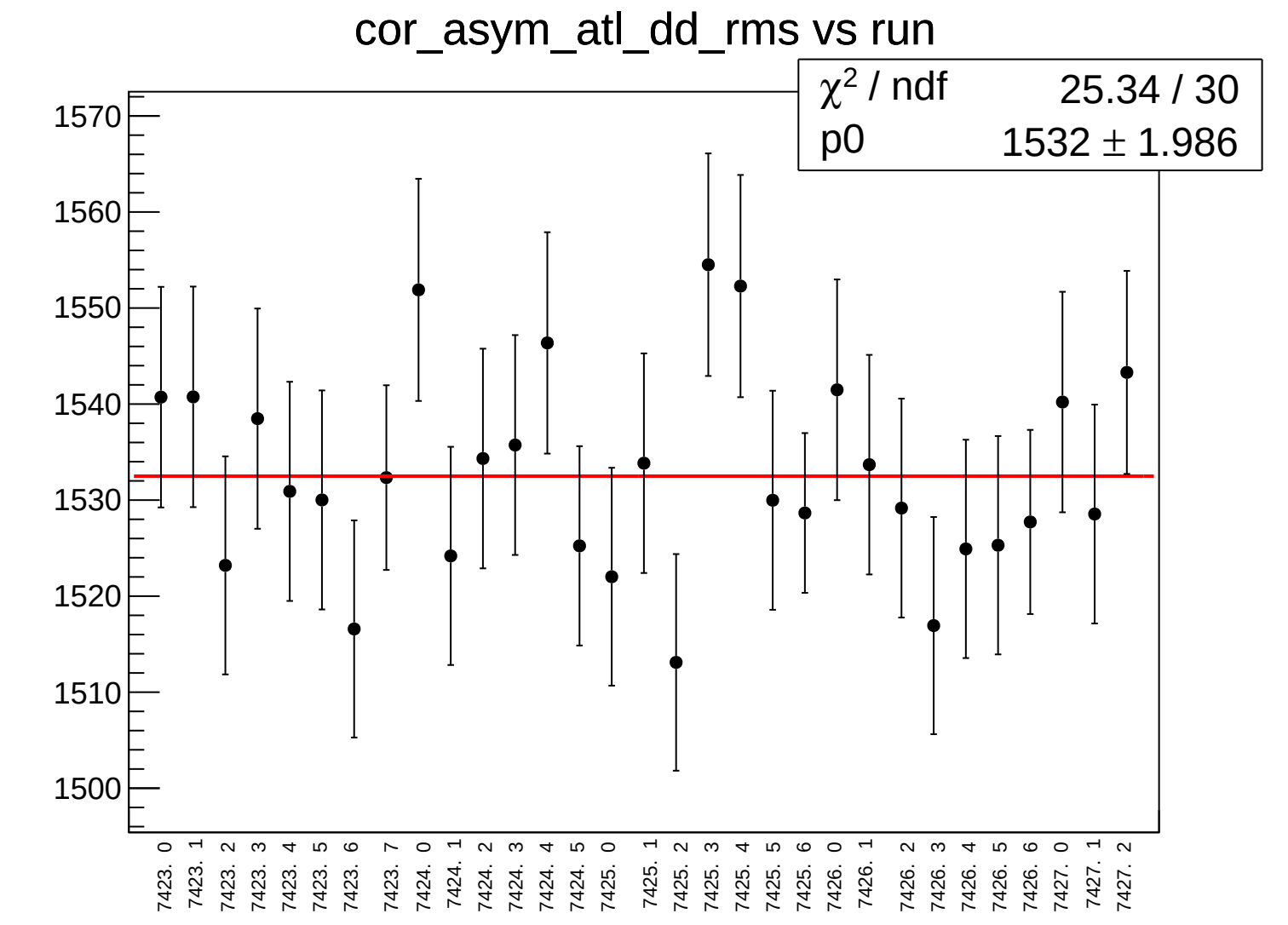

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 19.71 / 30
p0 −4994 ± 6812
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 529.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

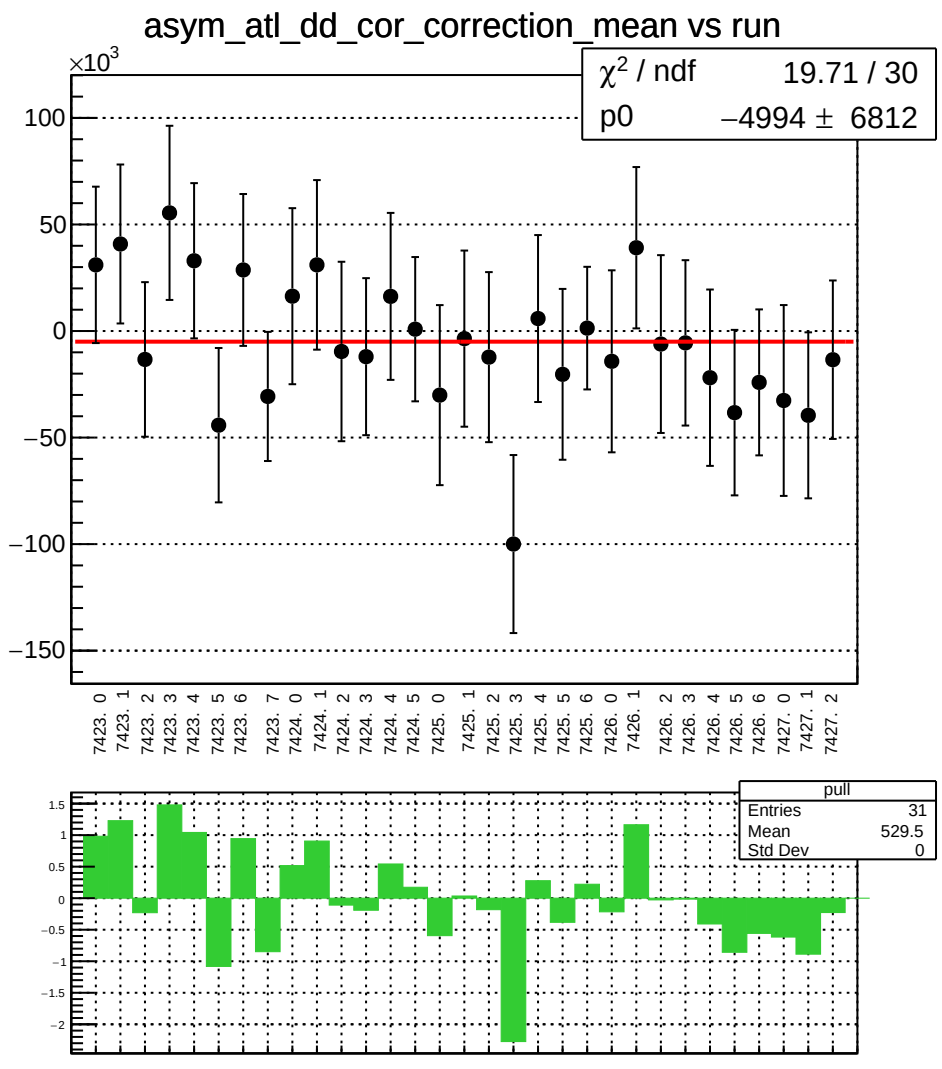

pull1D
Entries 31
Mean −0.006281
Std Dev 0.7973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

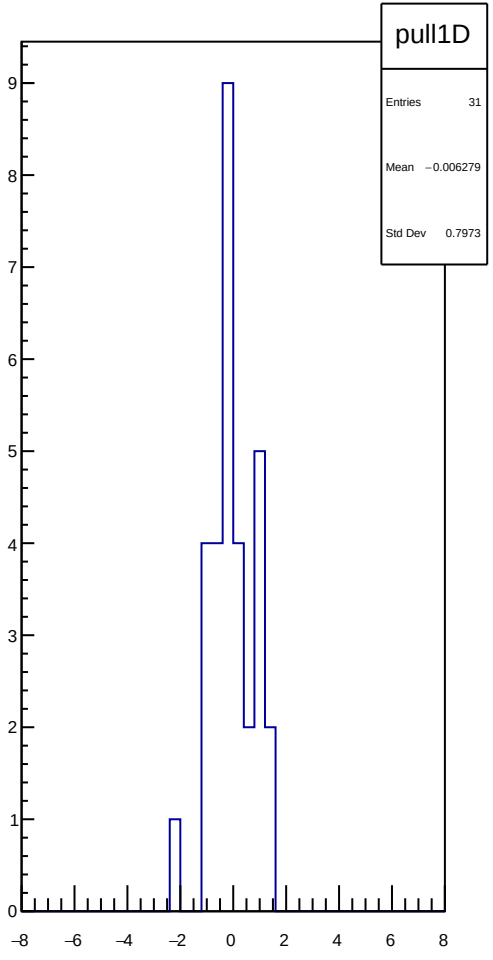

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1985 / 30
p0 3711 ± 4.817
4200
4000
3800
3600
3400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

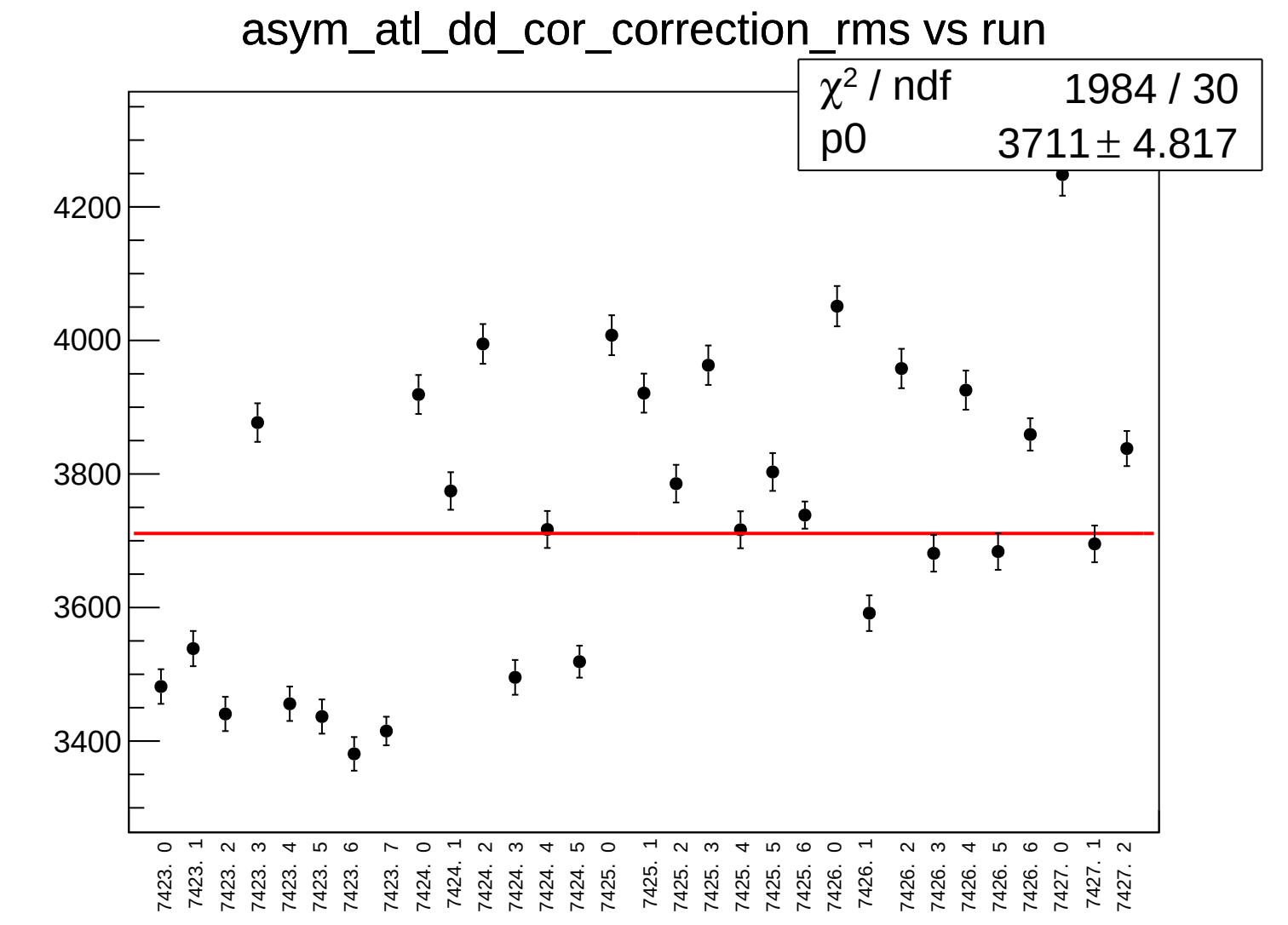

cor_asym_atl_dd_mean vs run
χ² / ndf 36.1 / 30
p0 −1543 ± 2809
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −236.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

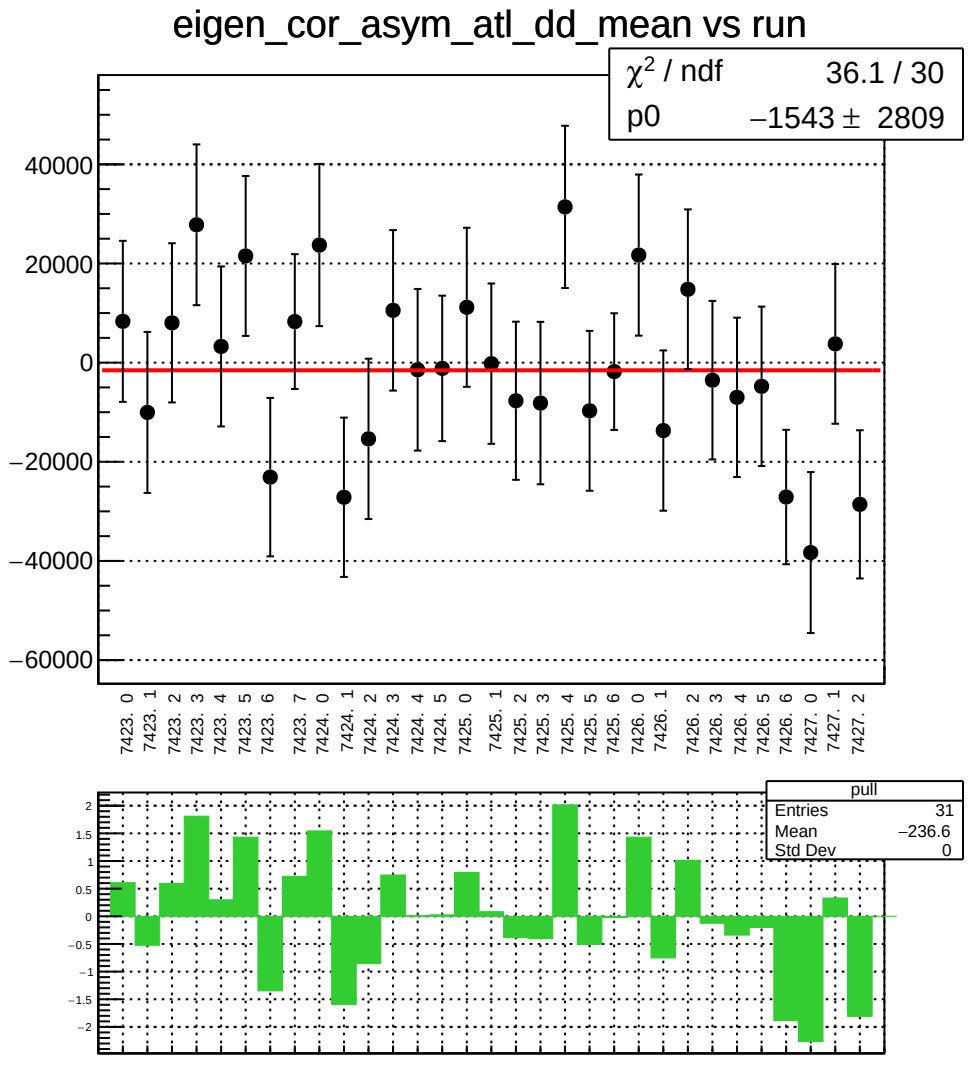

pull1D
Entries 31
Mean 0.01413
Std Dev 1.079
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

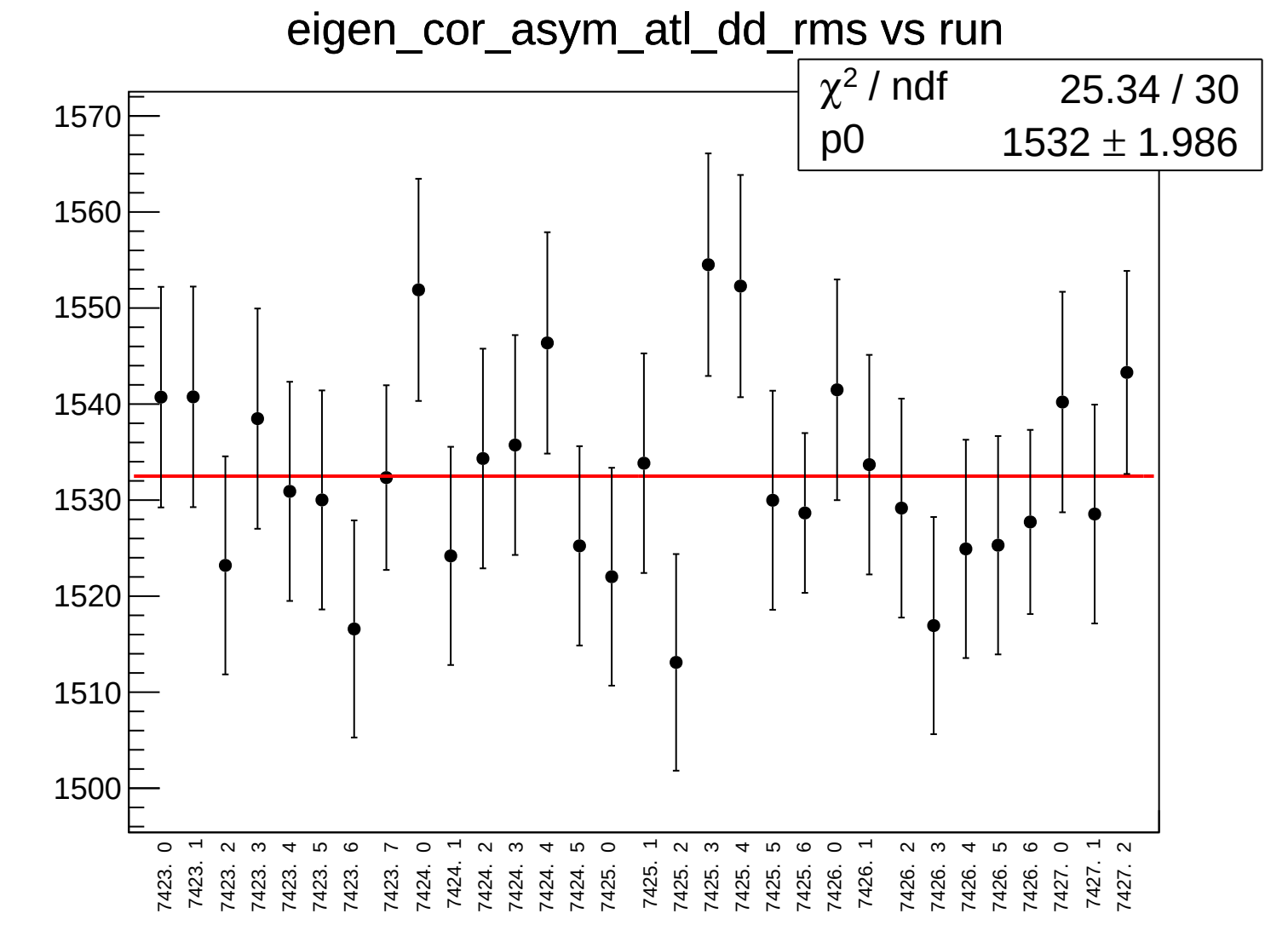

cor_asym_atl_dd_rms vs run
χ² / ndf 25.34 / 30
p0 1532 ± 1.986
1570
1560
1550
1540
1530
1520
1510
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 19.71 / 30
p0 −4994 ± 6812
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 529.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.006279
Std Dev 0.7973
9
8
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 1984 / 30
p0 3711 ± 4.817
4200
4000
3800
3600
3400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2


eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 36.1 / 30
p0 −1543 ± 2809
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −236.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01413
Std Dev 1.079
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 25.34 / 30
p0 1532 ± 1.986
1570
1560
1550
1540
1530
1520
1510
1500
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
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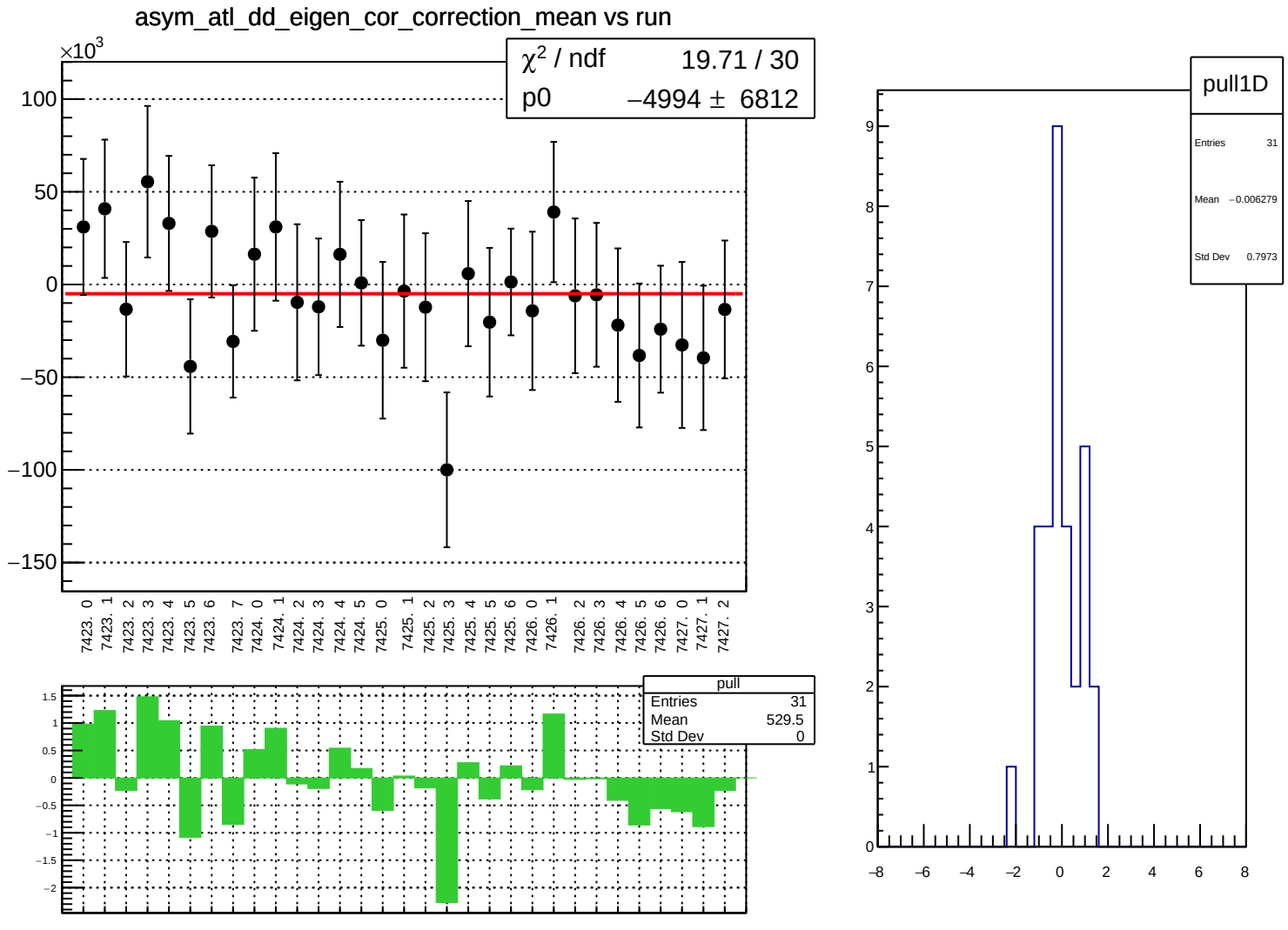
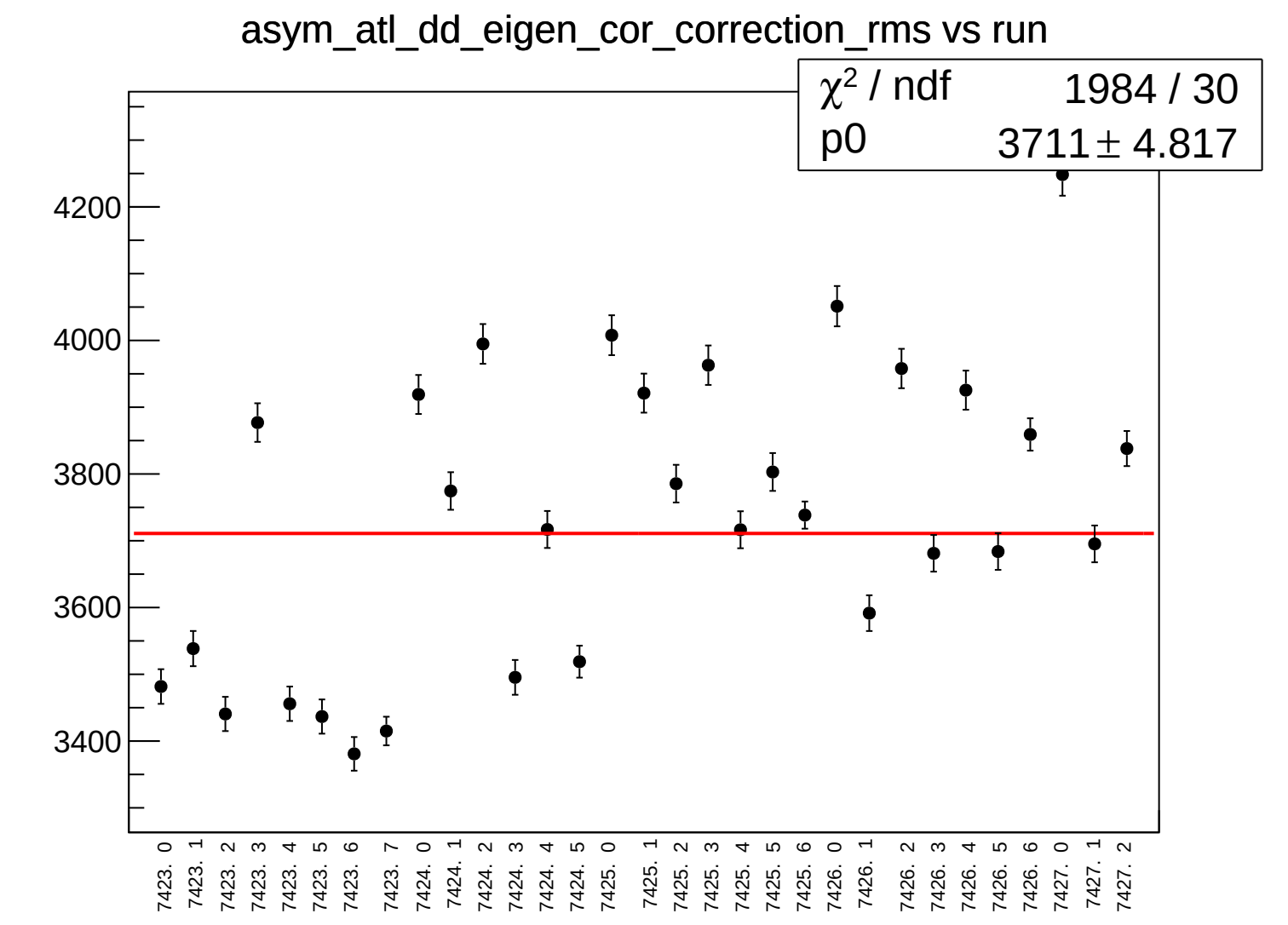
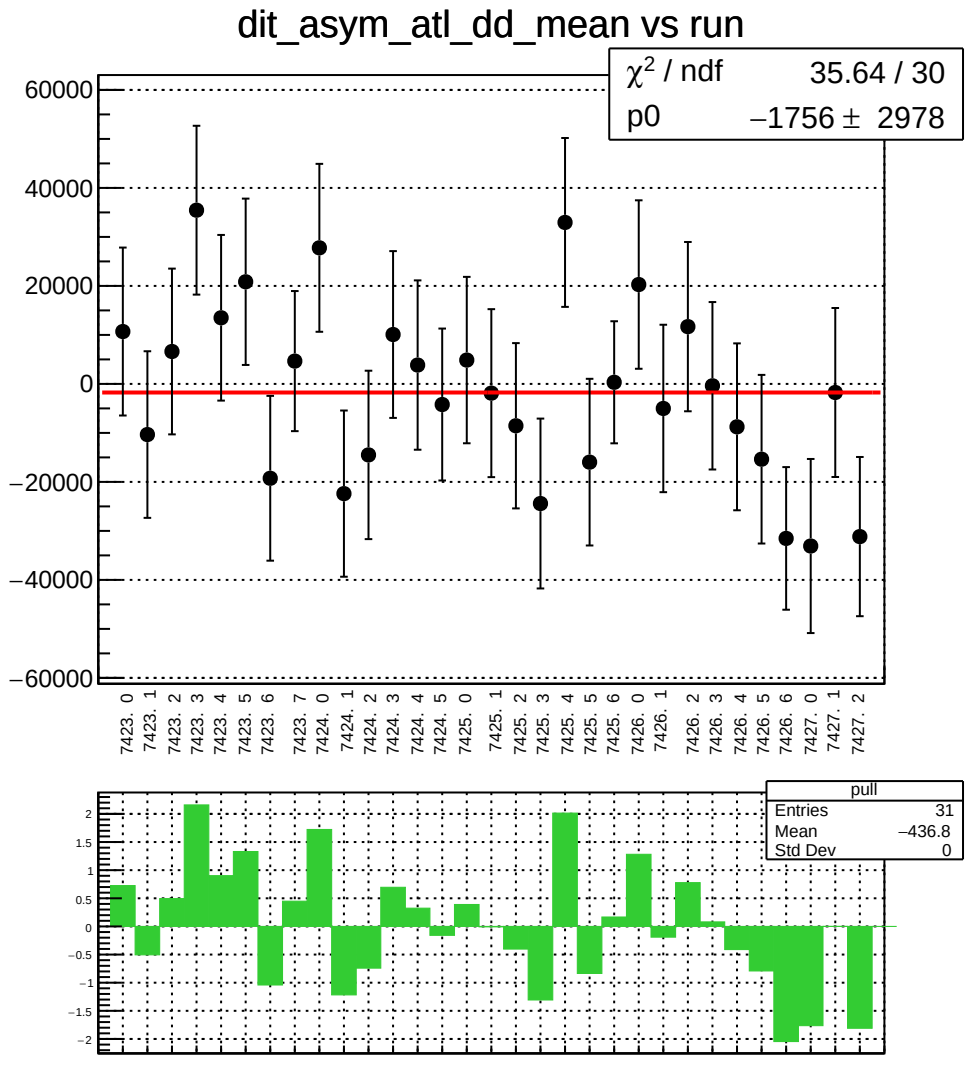
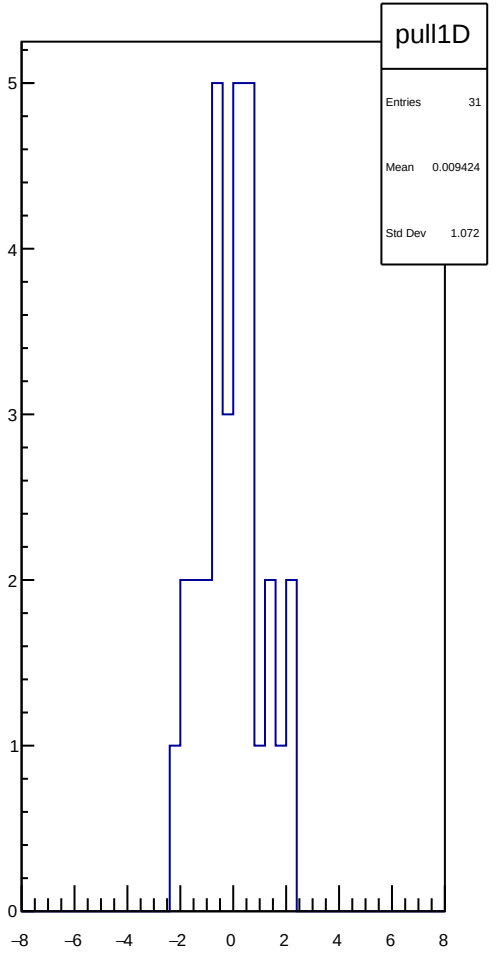
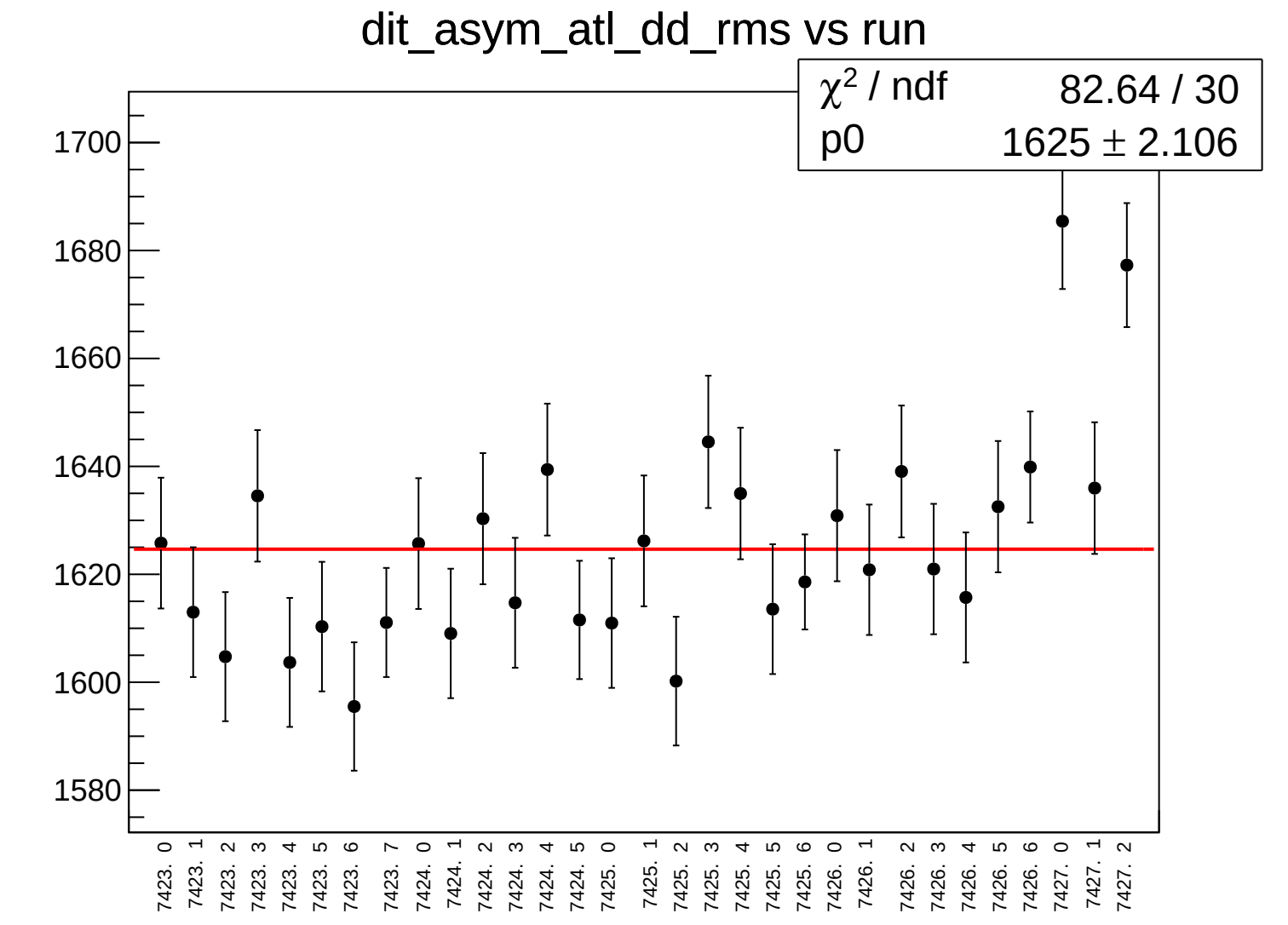
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

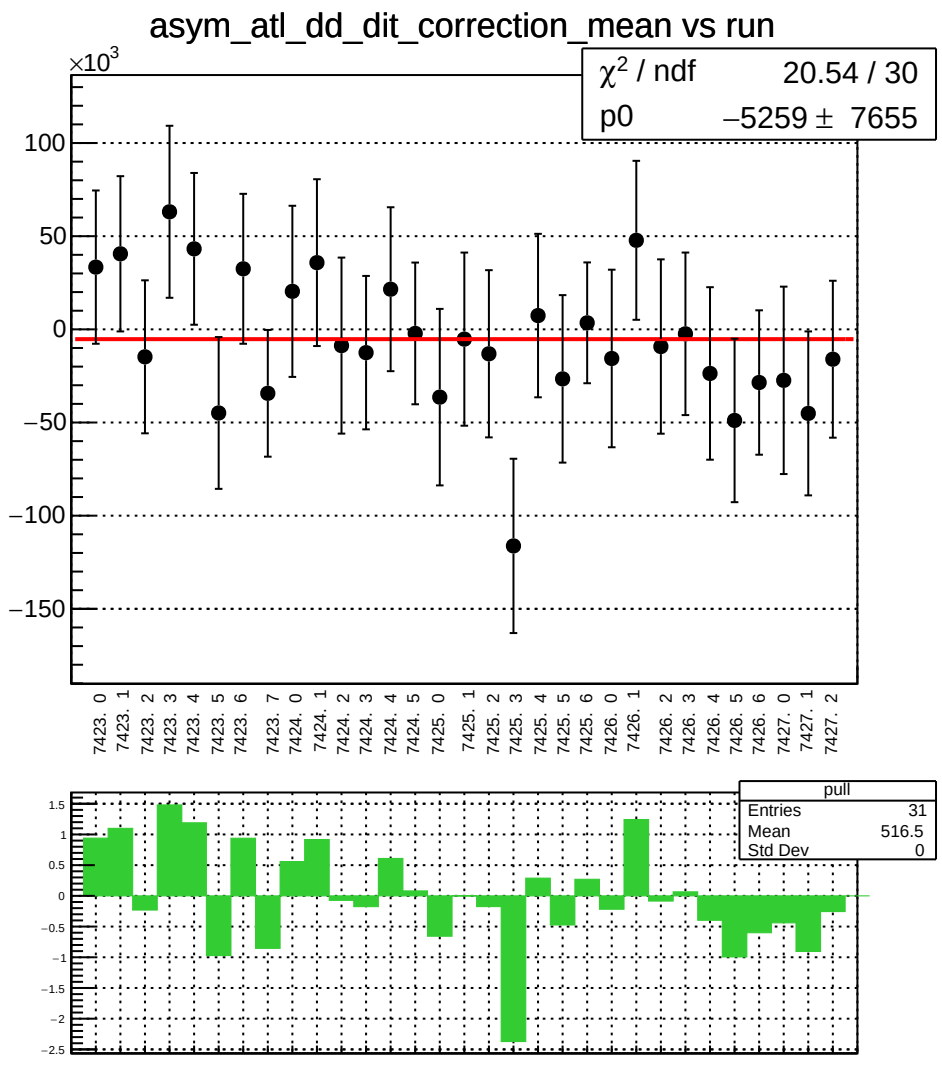

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 19.71 / 30
p0 −4994 ± 6812
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 529.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.006279
Std Dev 0.7973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

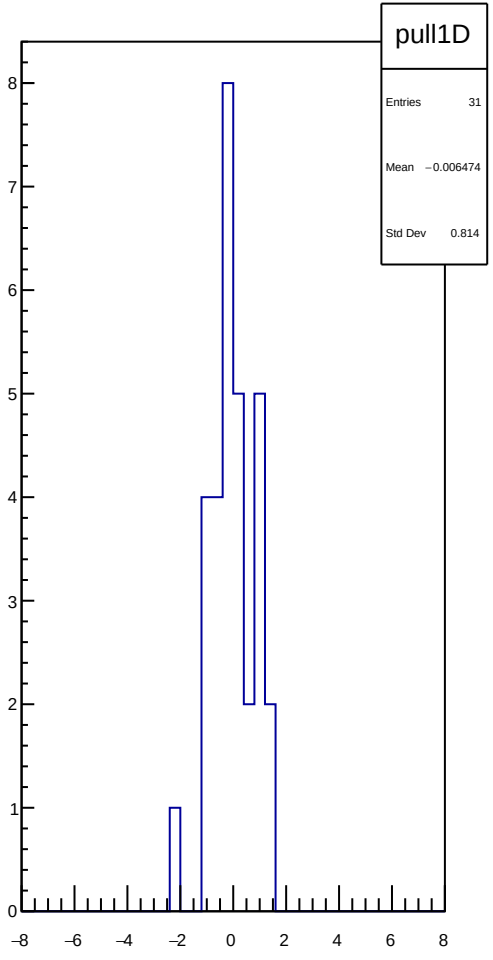

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1984 / 30
p0 3711 ± 4.817
4200
4000
3800
3600
3400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

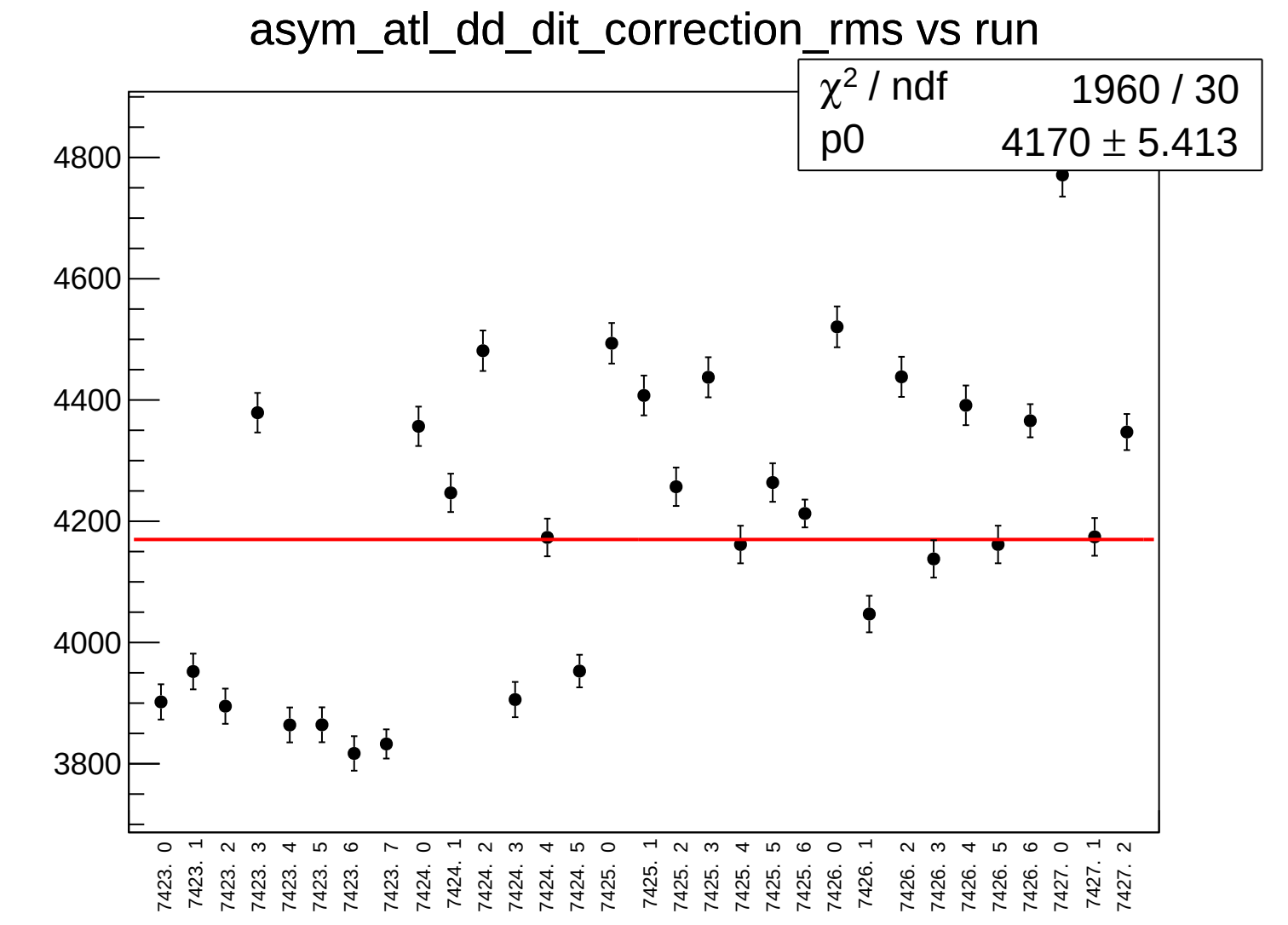

dit_asym_atl_dd_mean vs run
χ² / ndf 35.64 / 30
p0 −1756 ± 2978
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −436.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

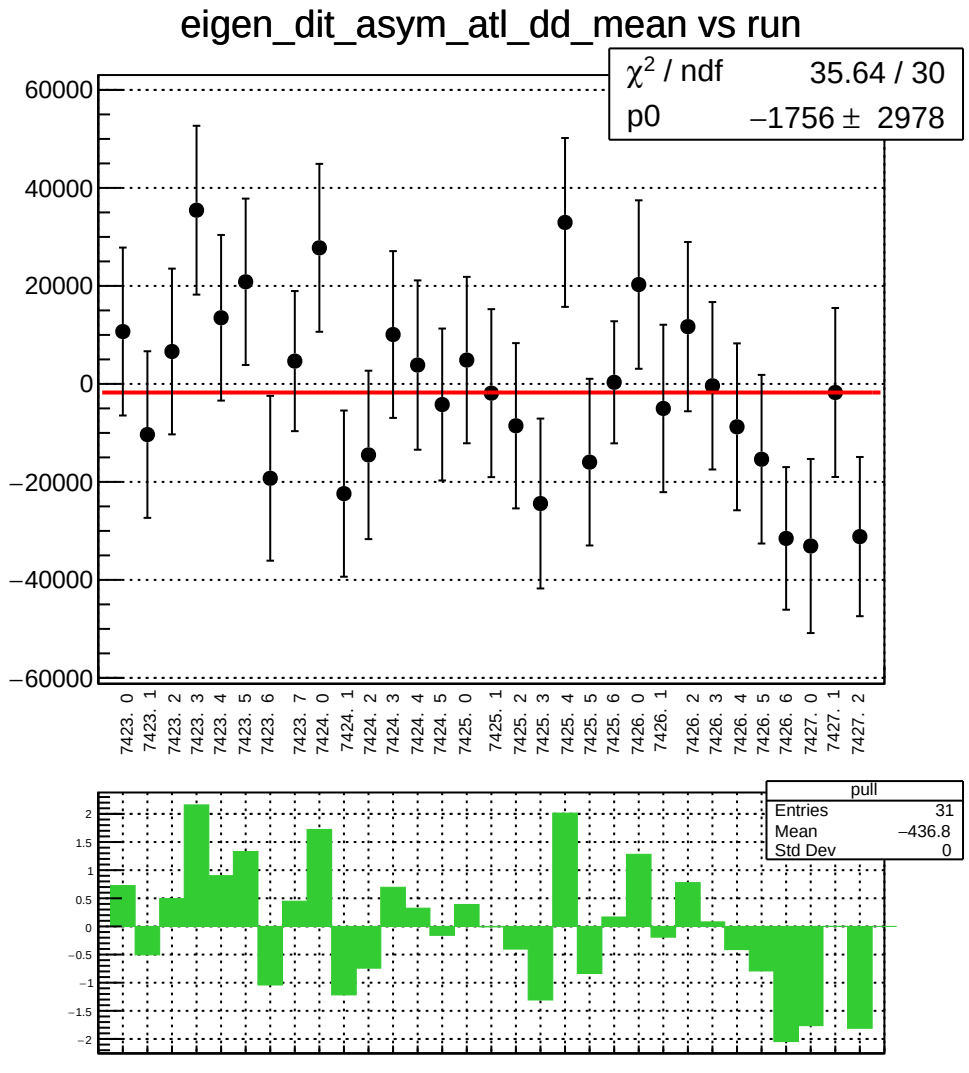

pull1D
Entries 31
Mean 0.009424
Std Dev 1.072
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

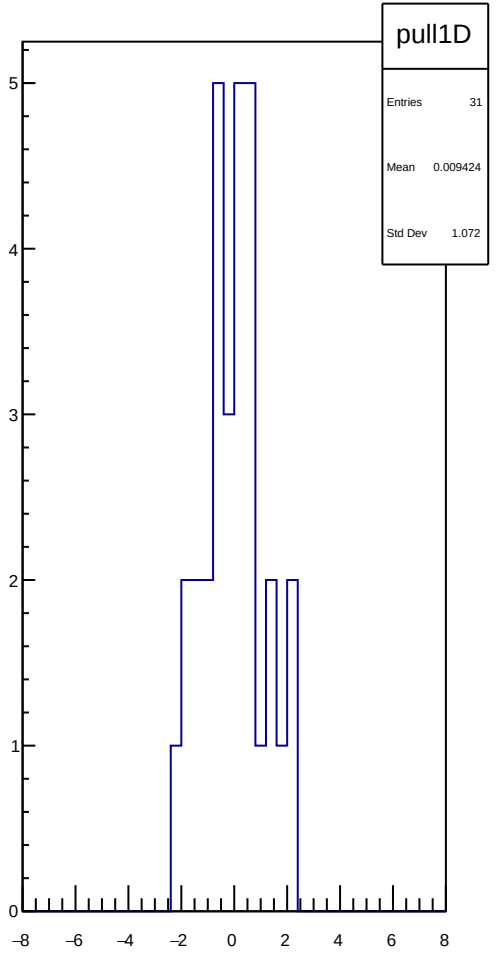

dit_asym_atl_dd_rms vs run
χ² / ndf 82.64 / 30
p0 1625 ± 2.106
1700
1680
1660
1640
1620
1600
1580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

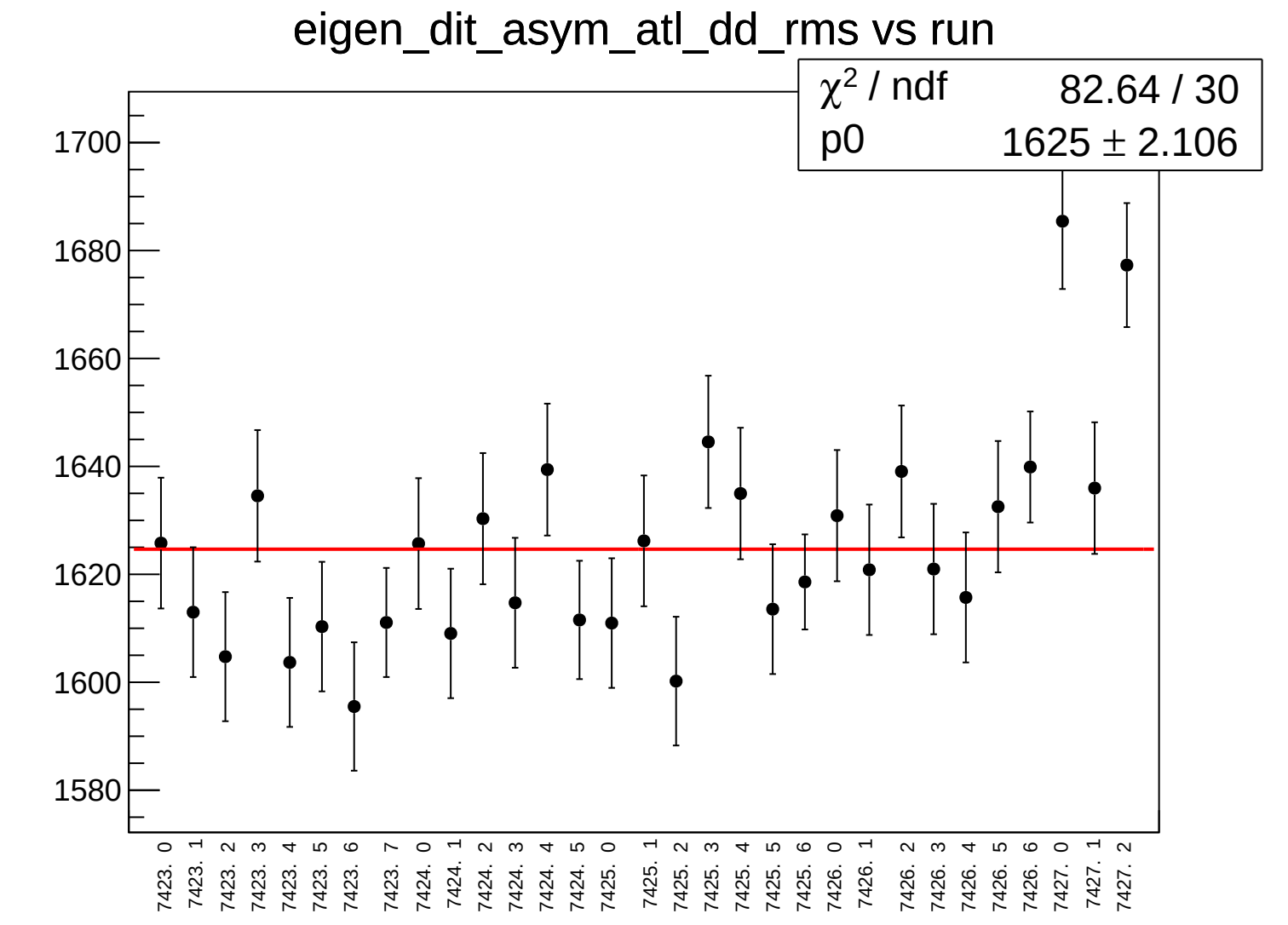

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 20.54 / 30
p0 −5259 ± 7655
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 516.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

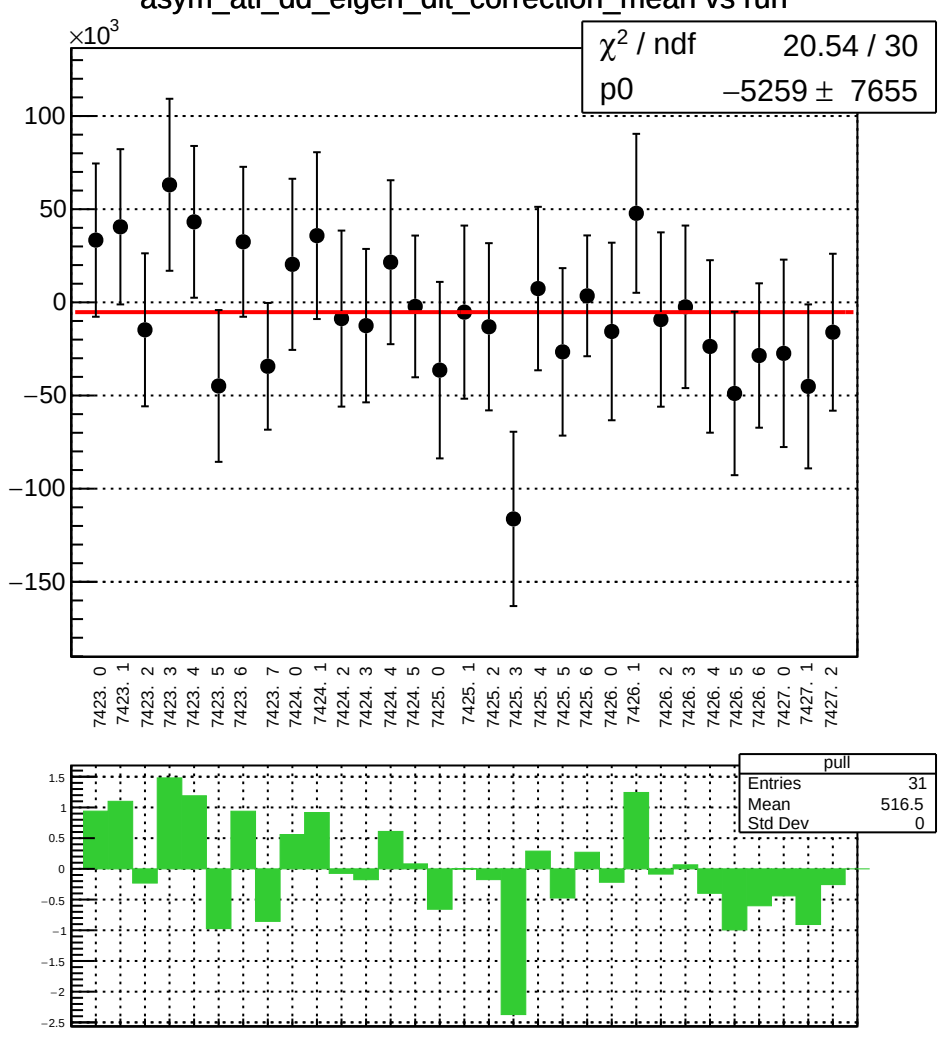

pull1D
Entries 31
Mean −0.006474
Std Dev 0.814
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

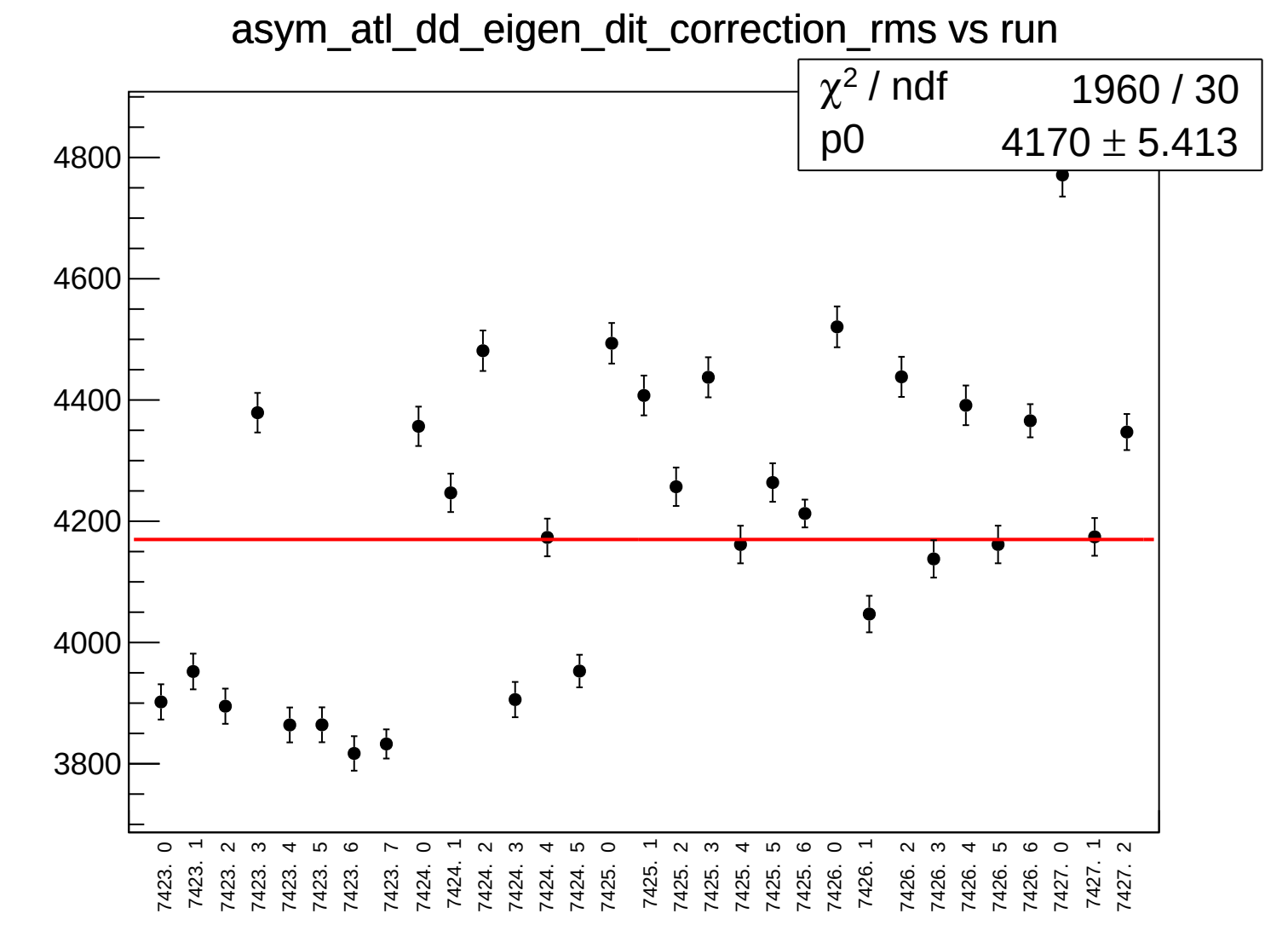

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1960 / 30
p0 4170 ± 5.413
4800
4600
4400
4200
4000
3800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

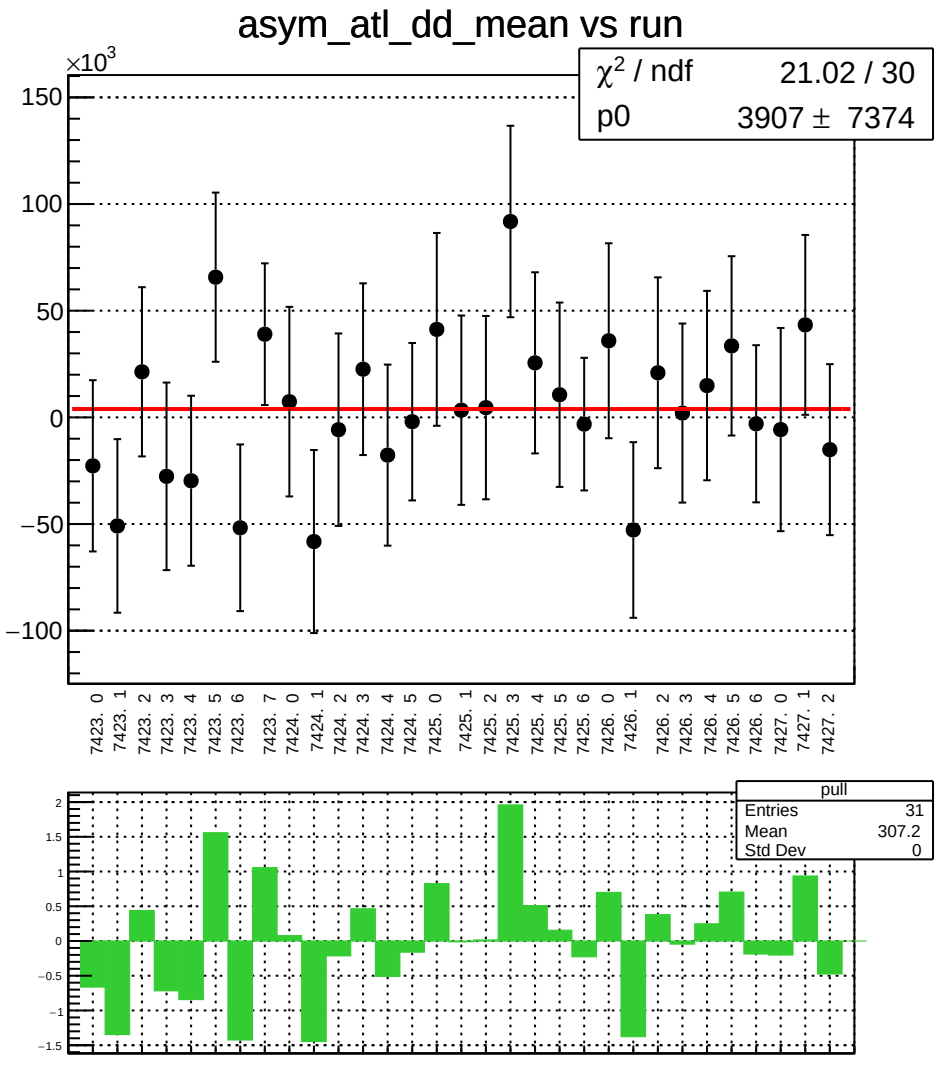

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 35.64 / 30
p0 −1756 ± 2978
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −436.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

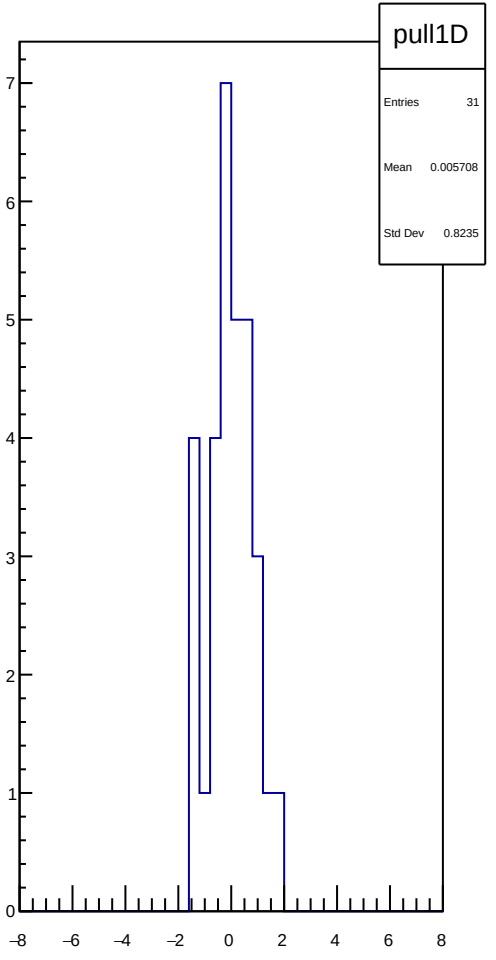

pull1D
Entries 31
Mean 0.009424
Std Dev 1.072
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

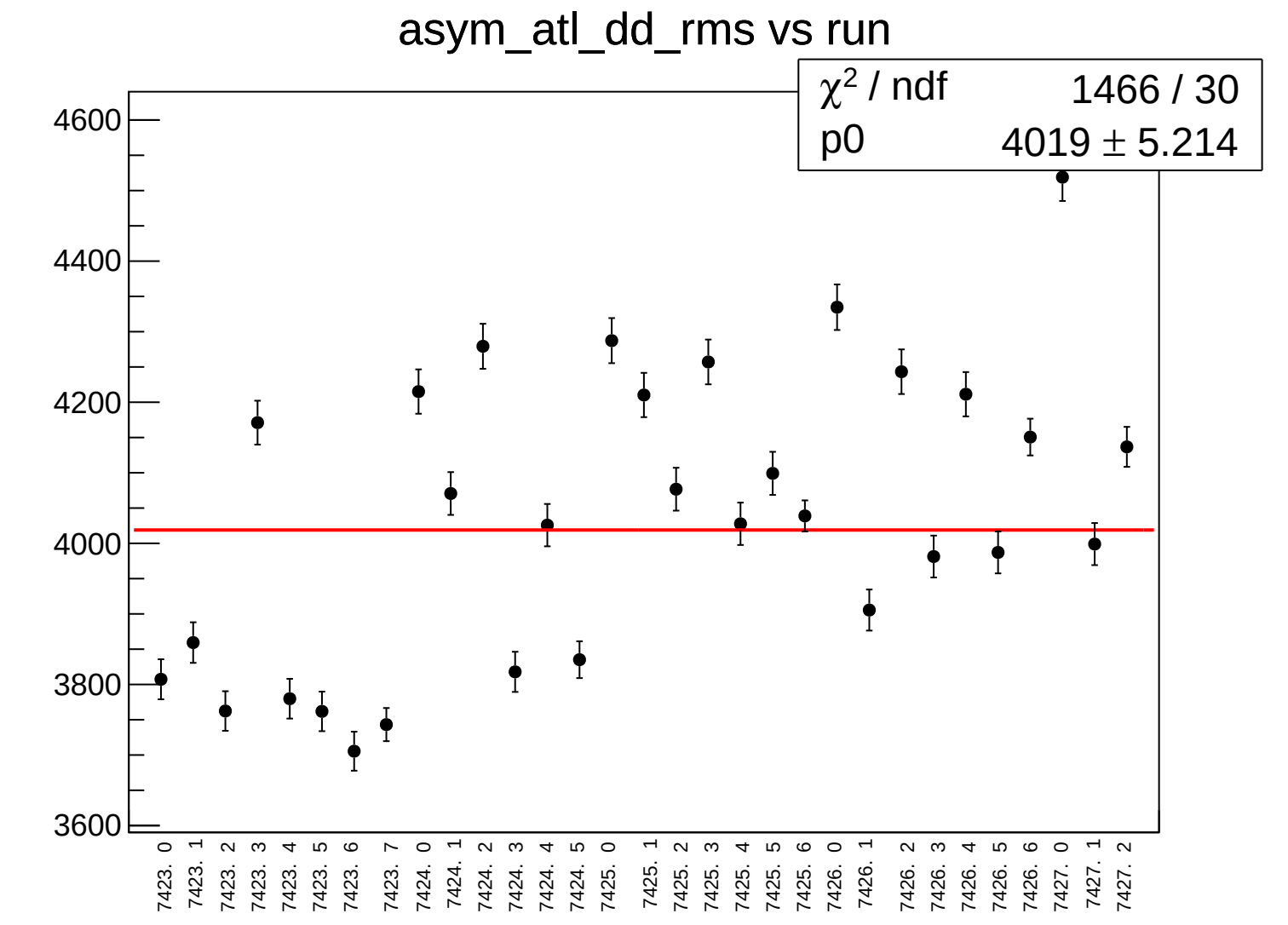

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 82.64 / 30
p0 1625 ± 2.106
1700
1680
1660
1640
1620
1600
1580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

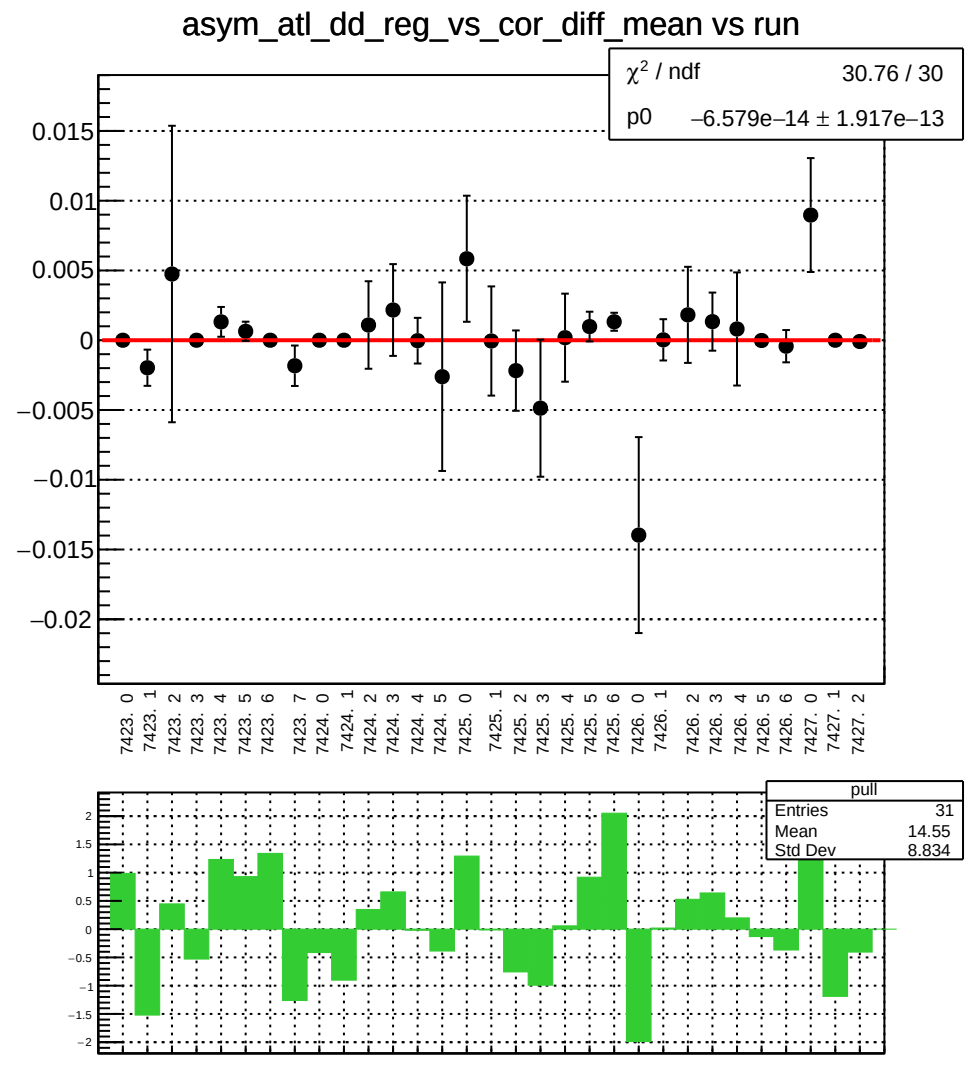

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 20.54 / 30
p0 −5259 ± 7655
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 516.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.006474
Std Dev 0.814
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

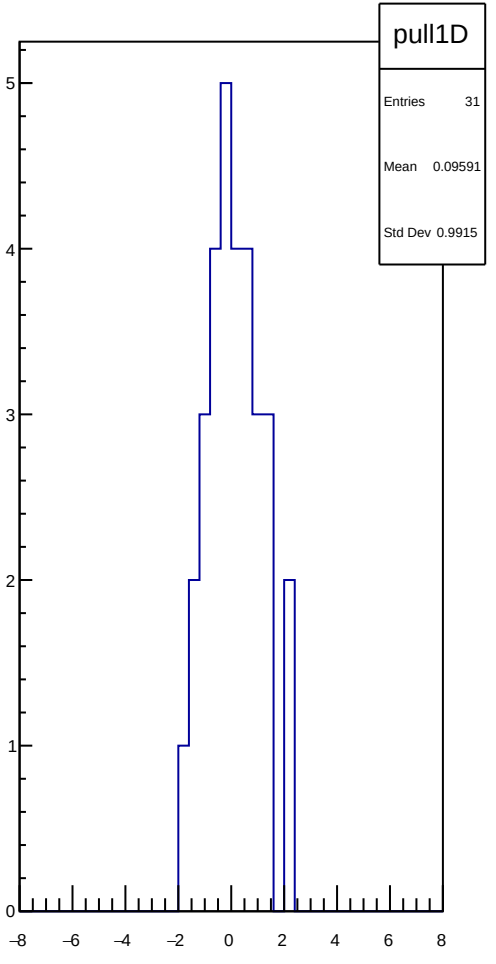

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1960 / 30
p0 4170 ± 5.413
4800
4600
4400
4200
4000
3800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

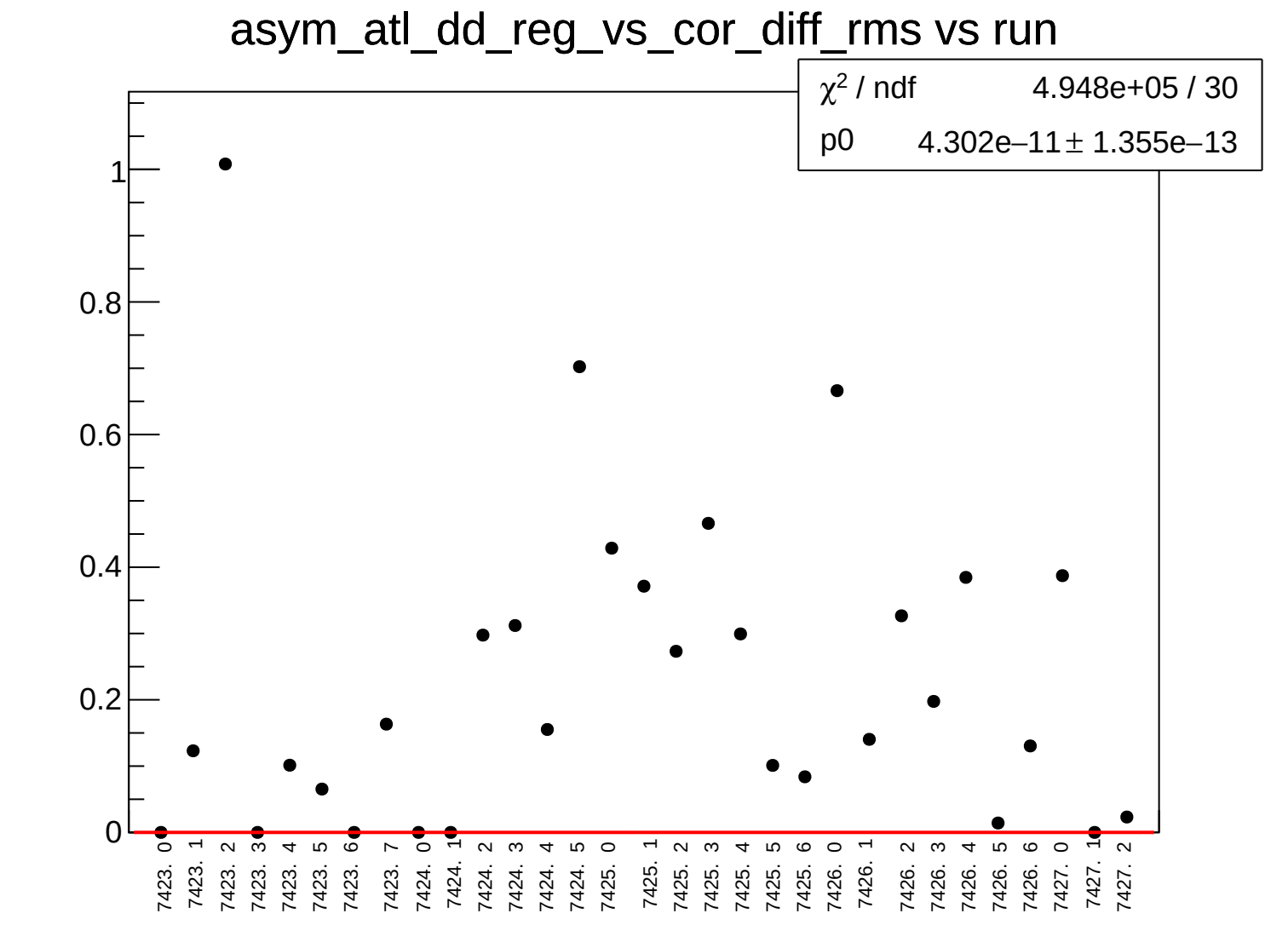

asym_atl_dd_mean vs run
×10^3
χ² / ndf 21.02 / 30
p0 3907 ± 7374
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 307.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

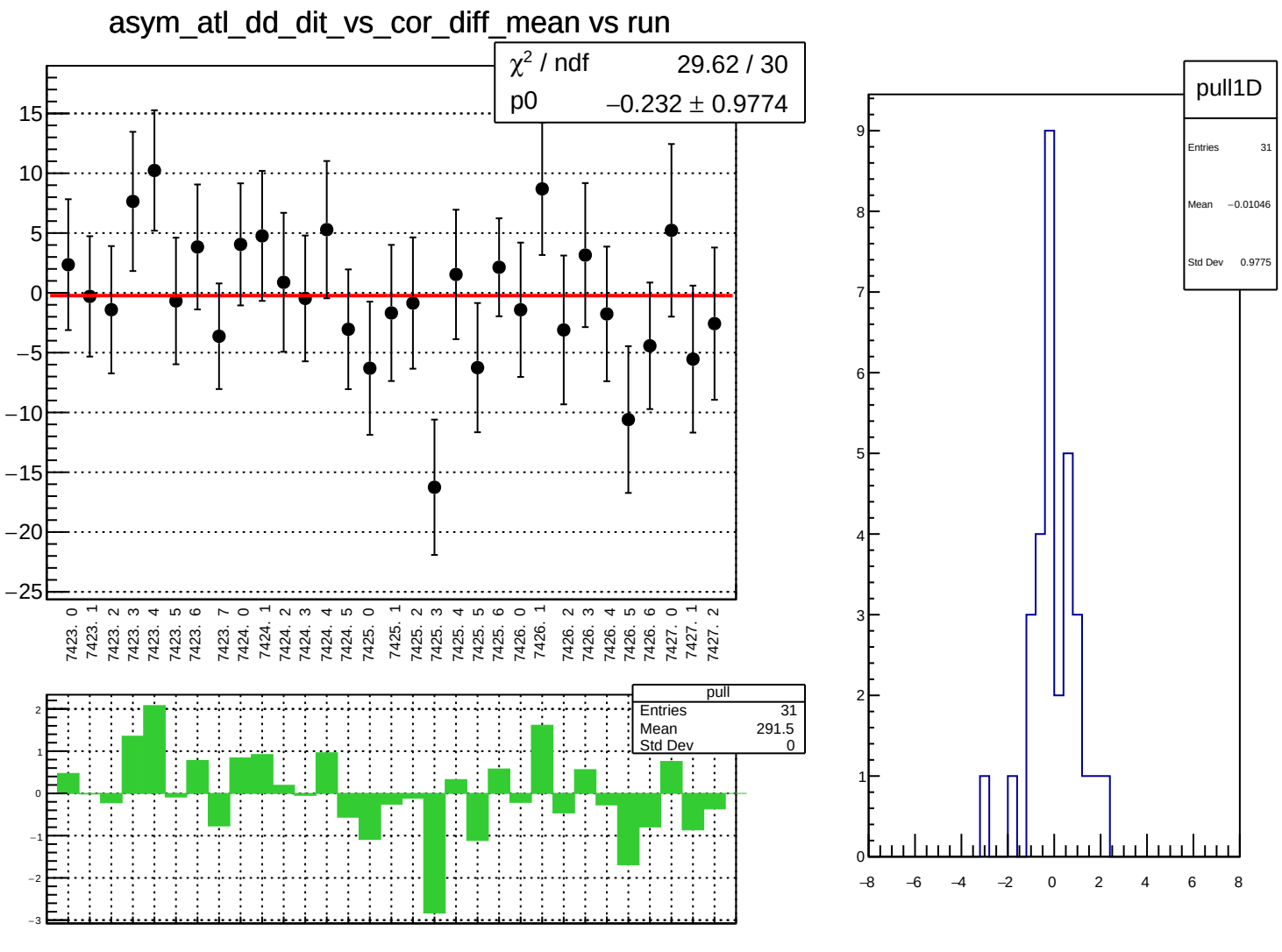

pull1D
Entries 31
Mean 0.005708
Std Dev 0.8235
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

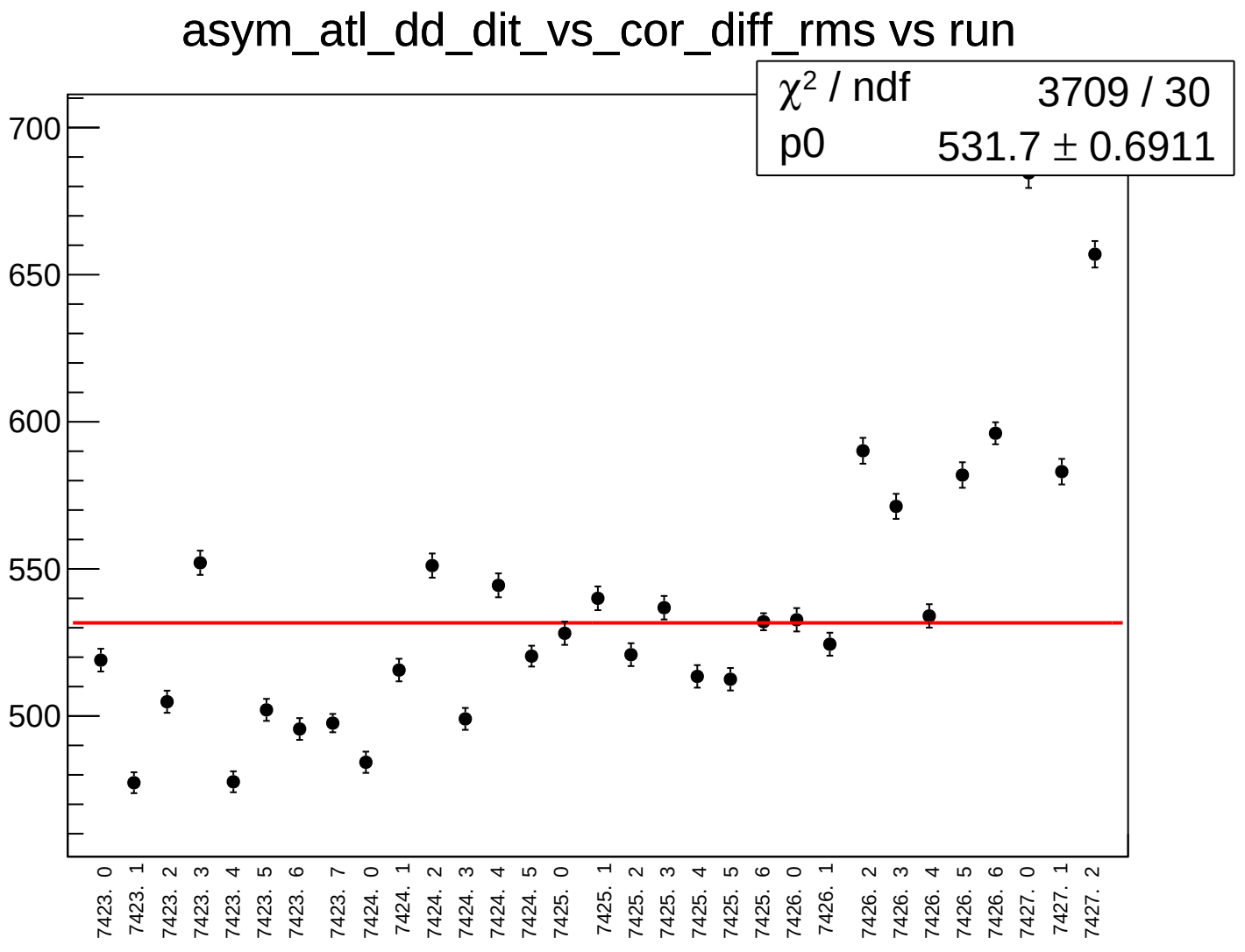

asym_atl_dd_rms vs run
χ² / ndf 1466 / 30
p0 4019 ± 5.214
4600
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

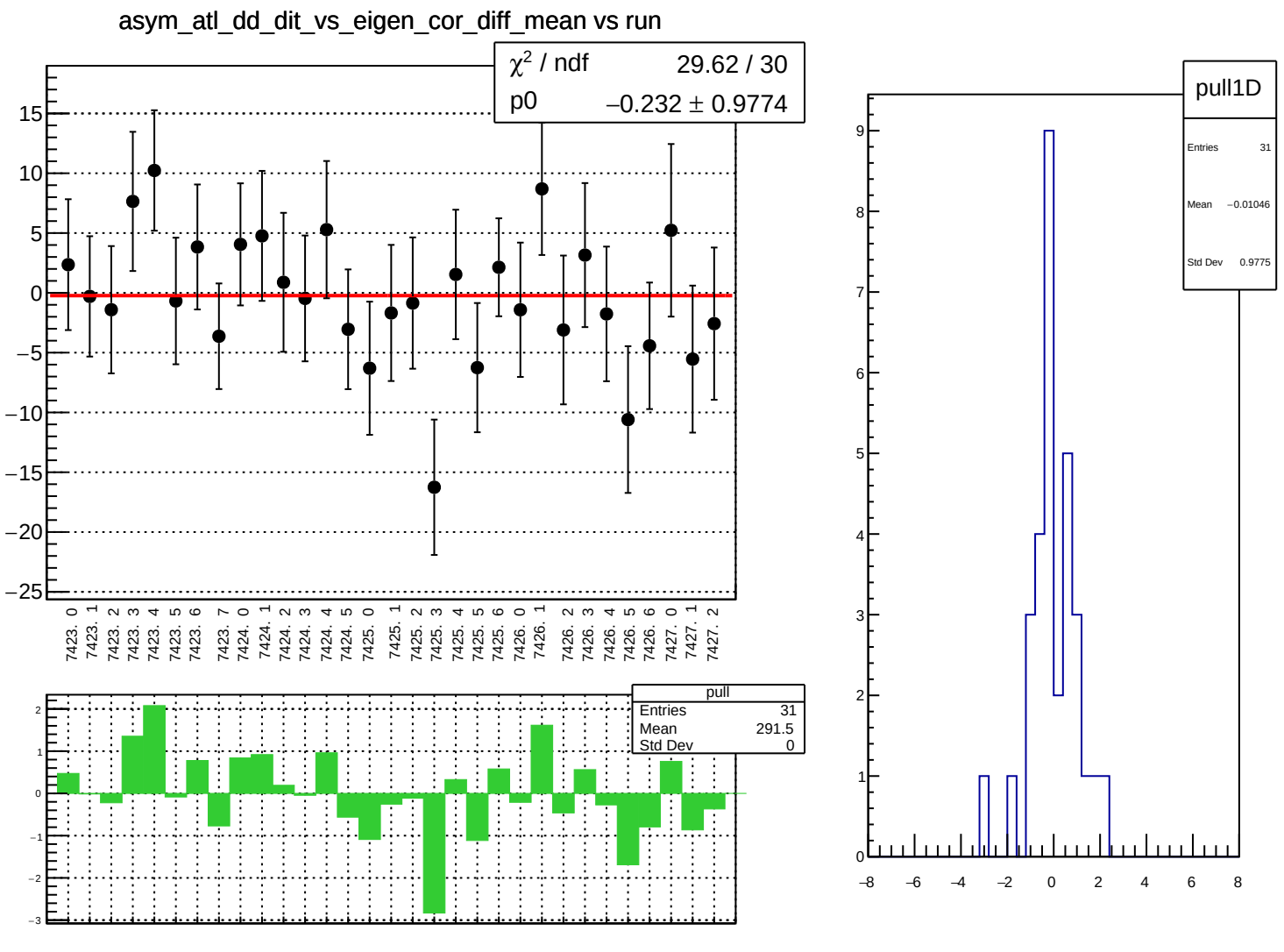

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 30.76 / 30
p0 −6.579e−14 ± 1.917e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.55
Std Dev 8.834
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

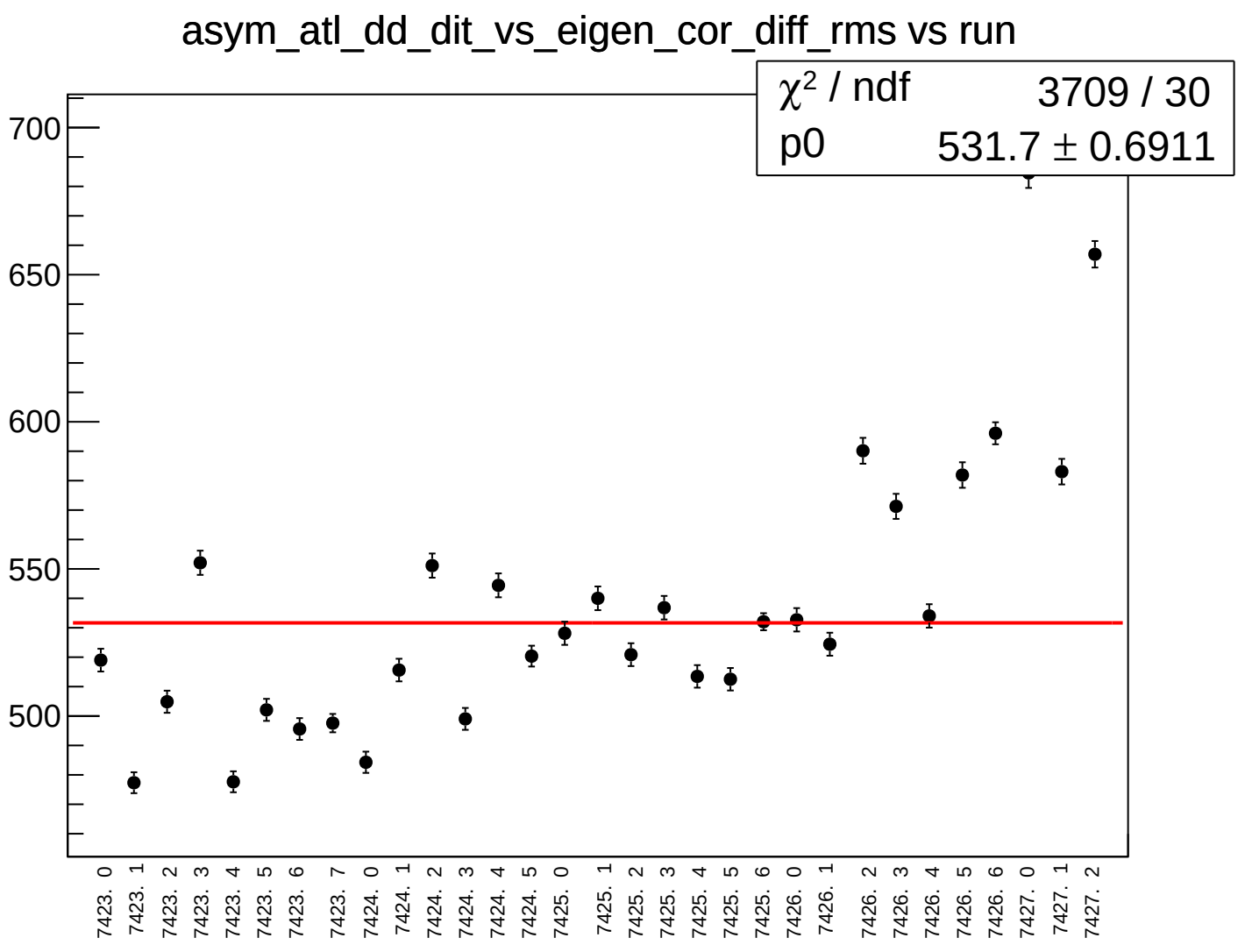

pull1D
Entries 31
Mean 0.09591
Std Dev 0.9915
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

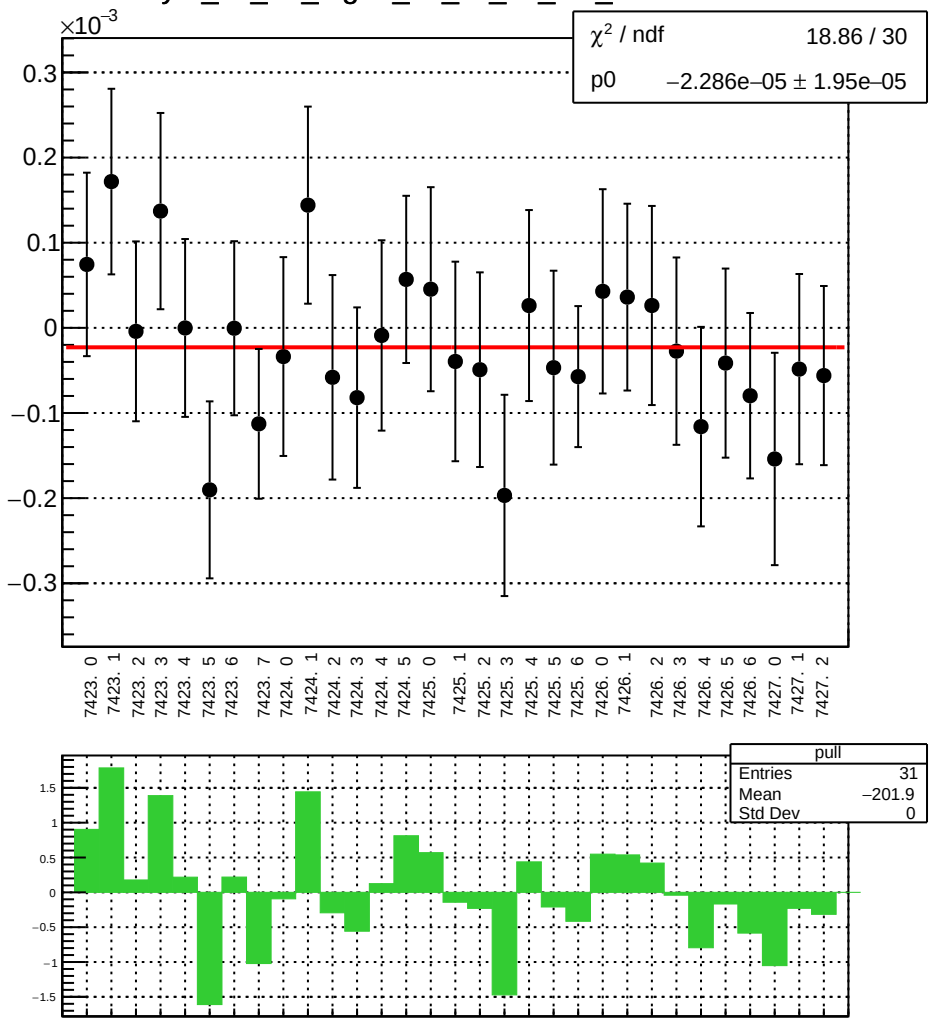

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.948e+05 / 30
p0 4.302e−11 ± 1.355e−13
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

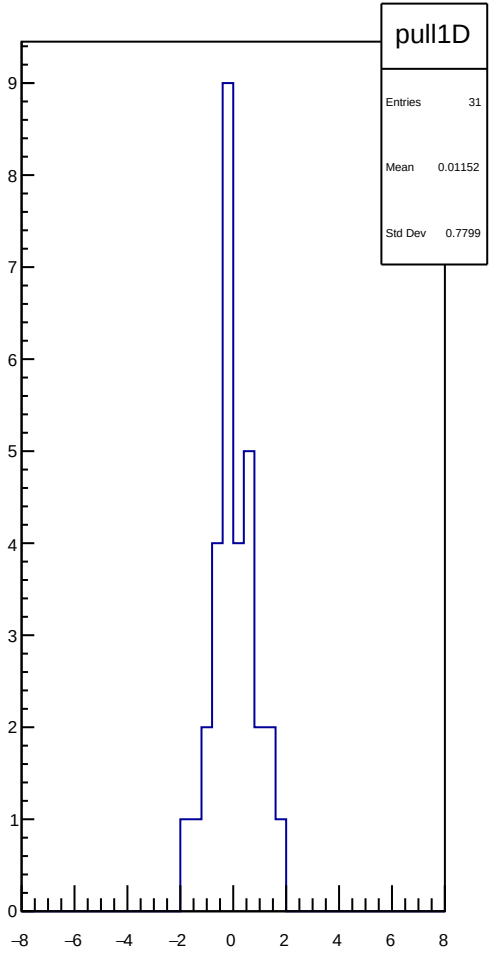

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 29.62 / 30
p0 −0.232 ± 0.9774
15
10
5
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 291.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.01046
Std Dev 0.9775
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

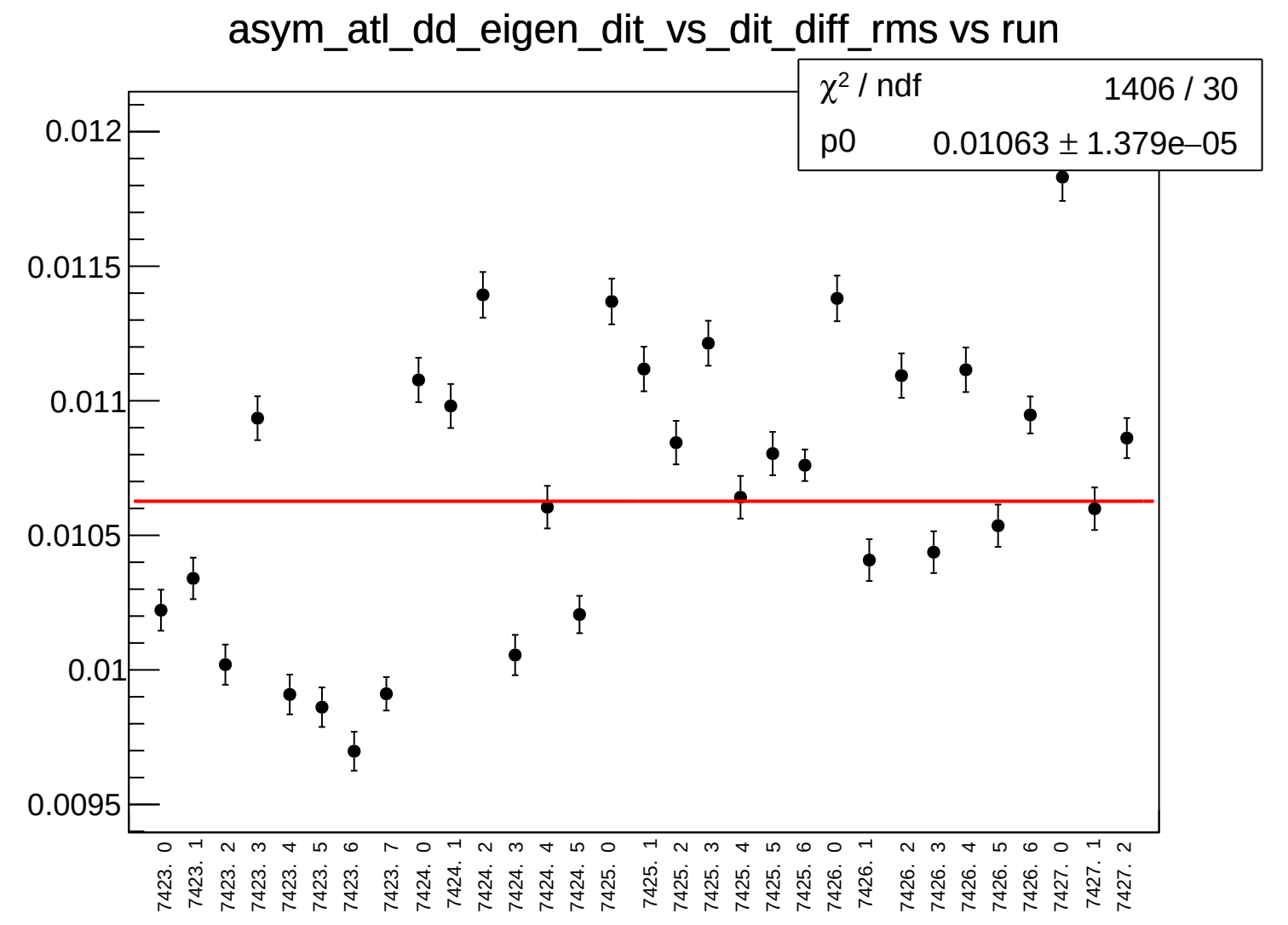

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3709 / 30
p0 531.7 ± 0.6911
700
650
600
550
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

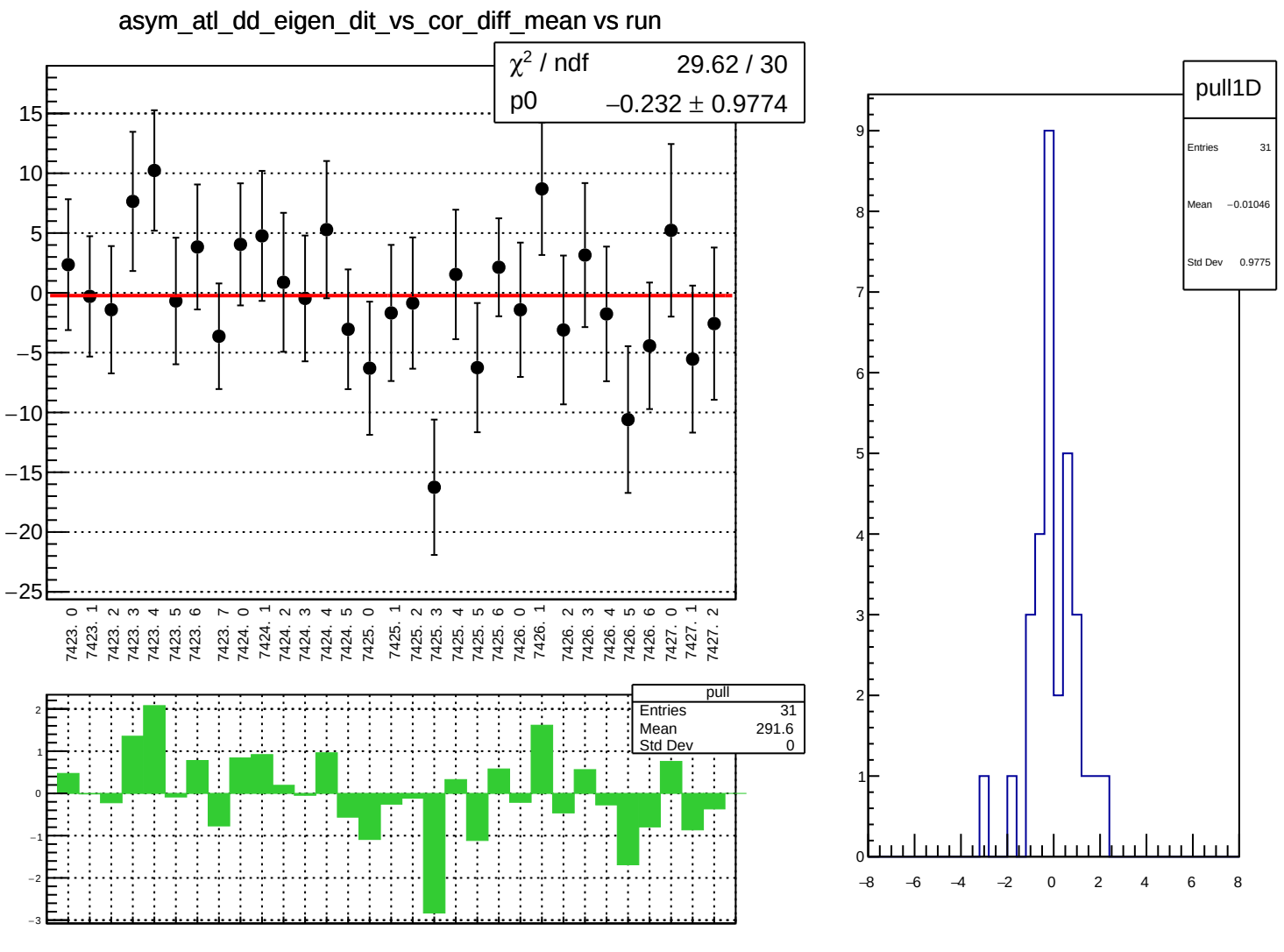

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.62 / 30
p0 −0.232 ± 0.9774
pull
Entries 31
Mean 291.5
Std Dev 0
pull1D
Entries 31
Mean −0.01046
Std Dev 0.9775

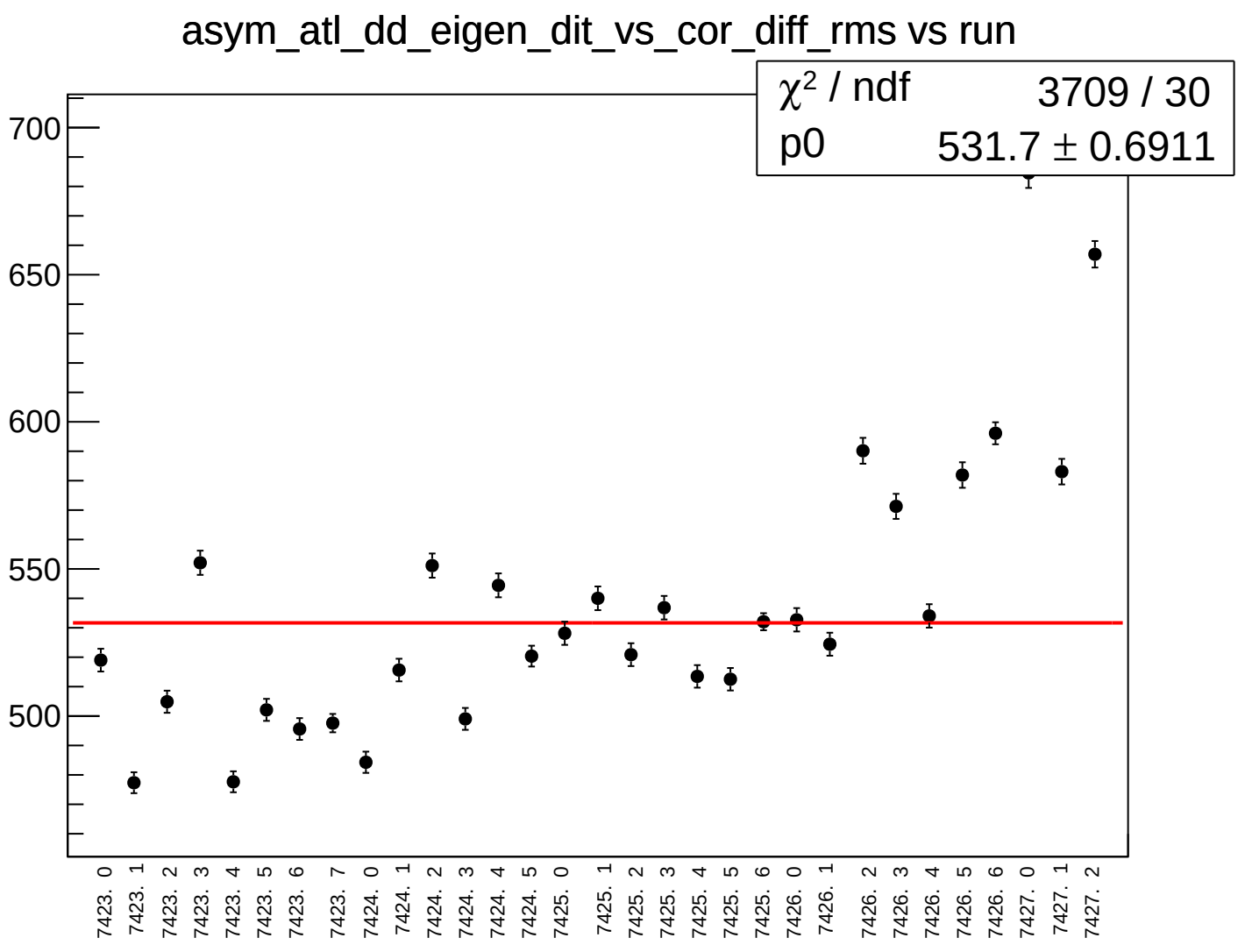

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3709 / 30
p0 531.7 ± 0.6911
700
650
600
550
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

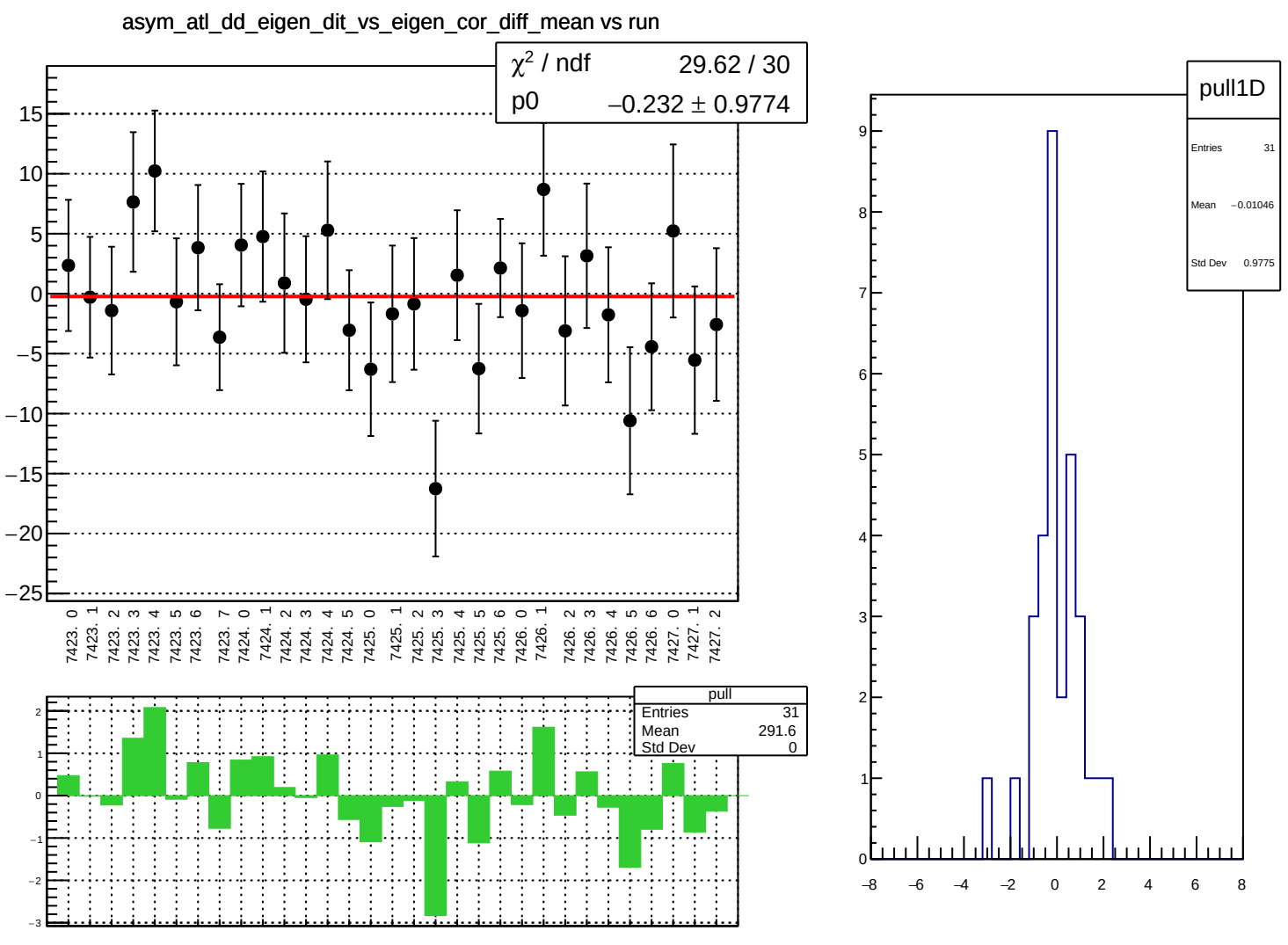

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.86 / 30
p0 −2.286e−05 ± 1.95e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −201.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

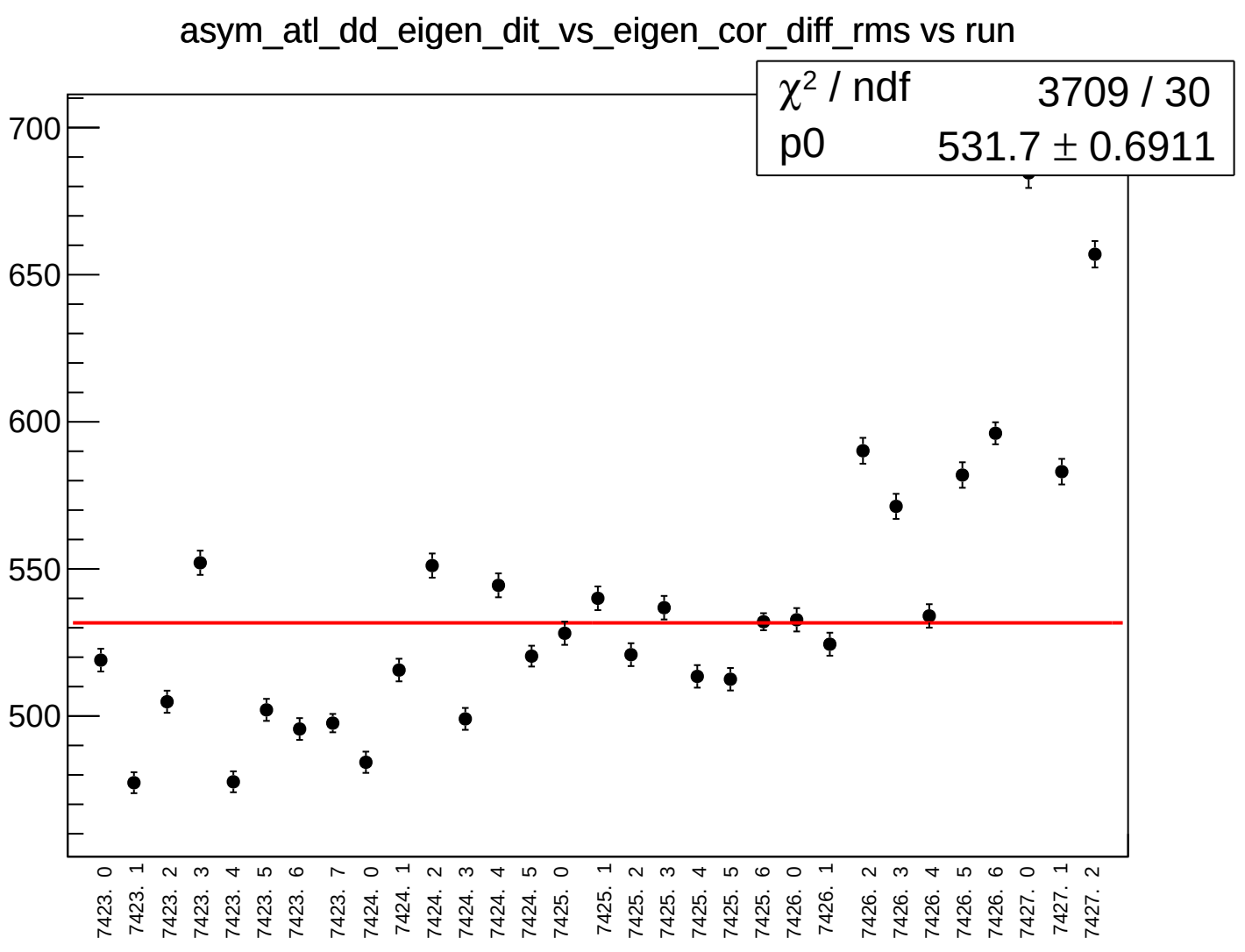

pull1D
Entries 31
Mean 0.01152
Std Dev 0.7799
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

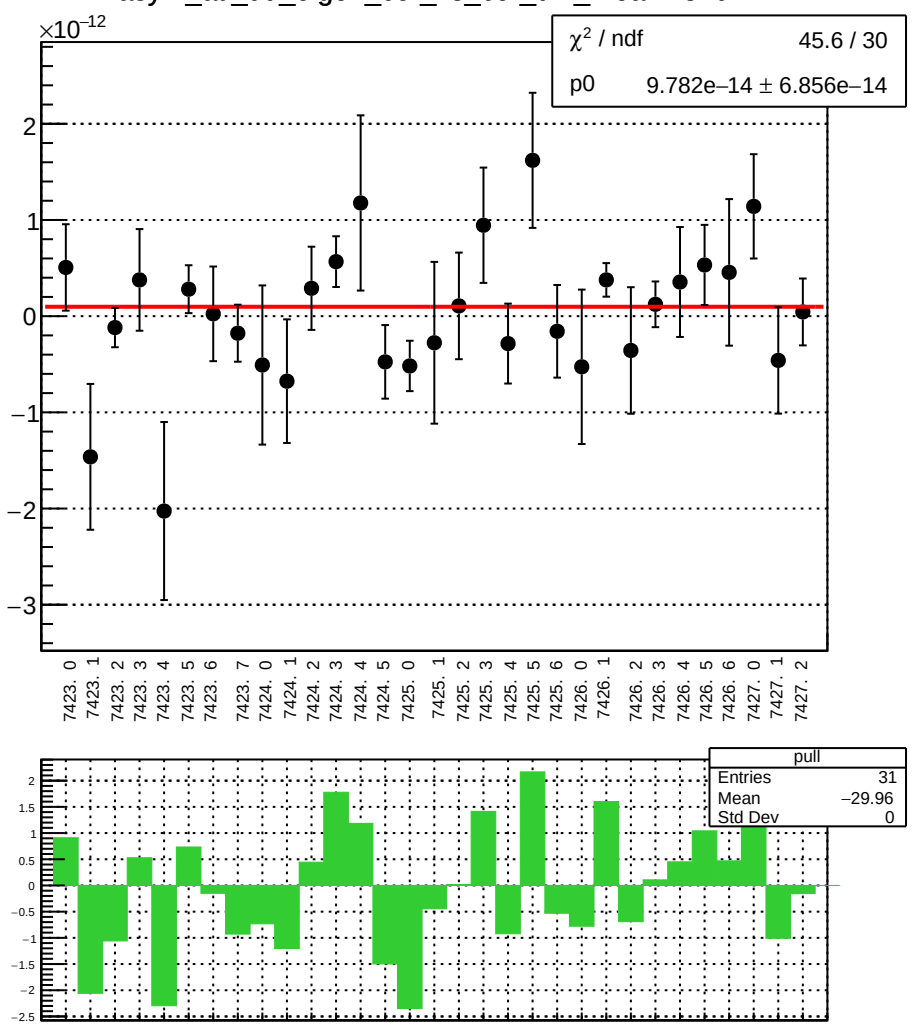

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1406 / 30
p0 0.01063 ± 1.379e–05
0.012
0.0115
0.011
0.0105
0.01
0.0095
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

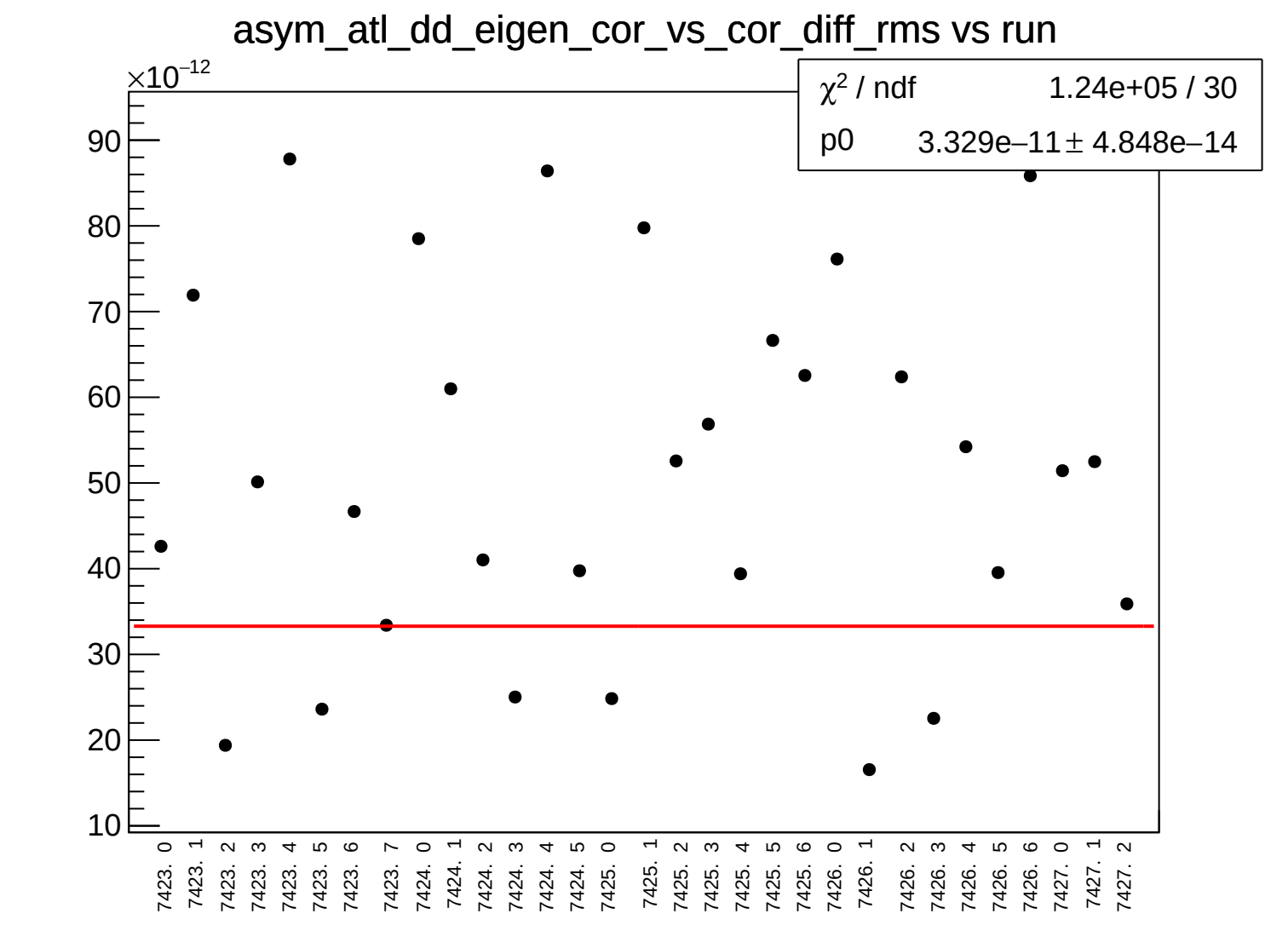

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.62 / 30
p0 −0.232 ± 0.9774
pull
Entries 31
Mean 291.6
Std Dev 0
pull1D
Entries 31
Mean −0.01046
Std Dev 0.9775

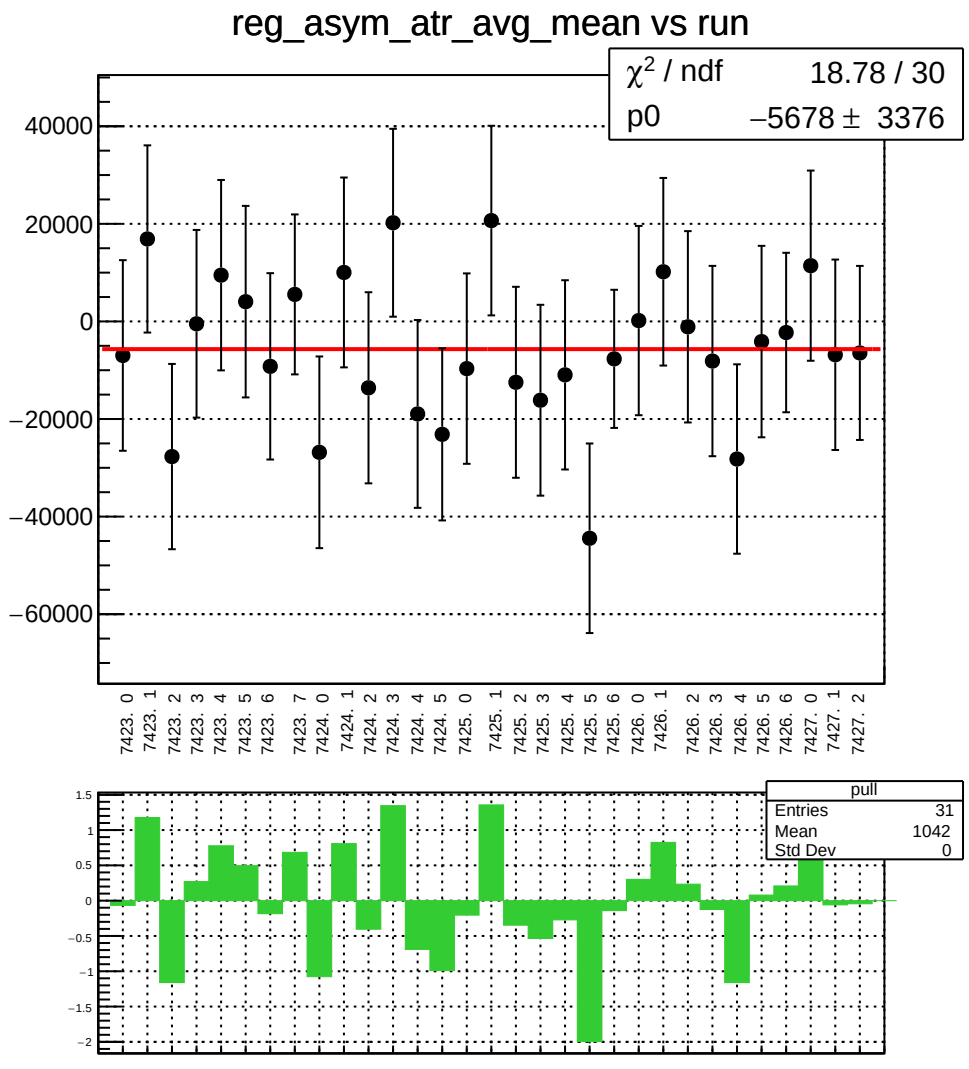

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3709 / 30
p0 531.7 ± 0.6911
700
650
600
550
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

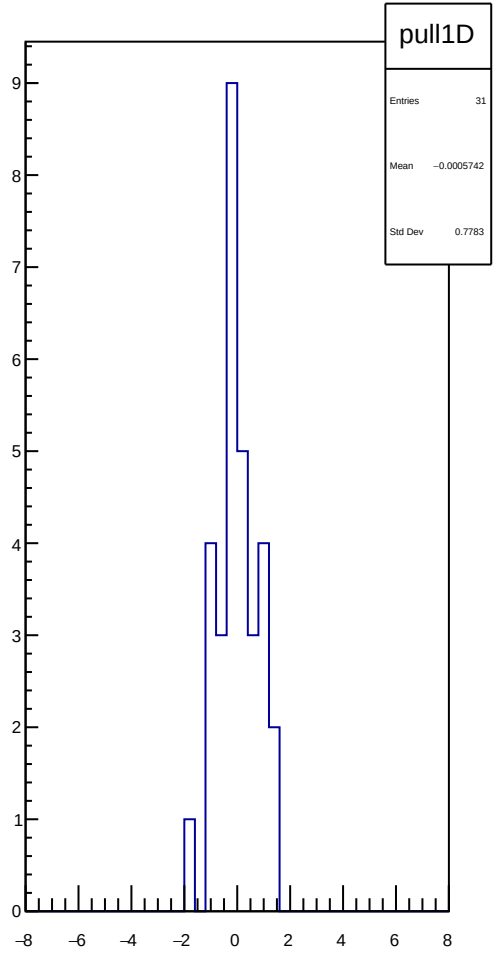

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.62 / 30
p0 −0.232 ± 0.9774
pull
Entries 31
Mean 291.6
Std Dev 0
pull1D
Entries 31
Mean −0.01046
Std Dev 0.9775

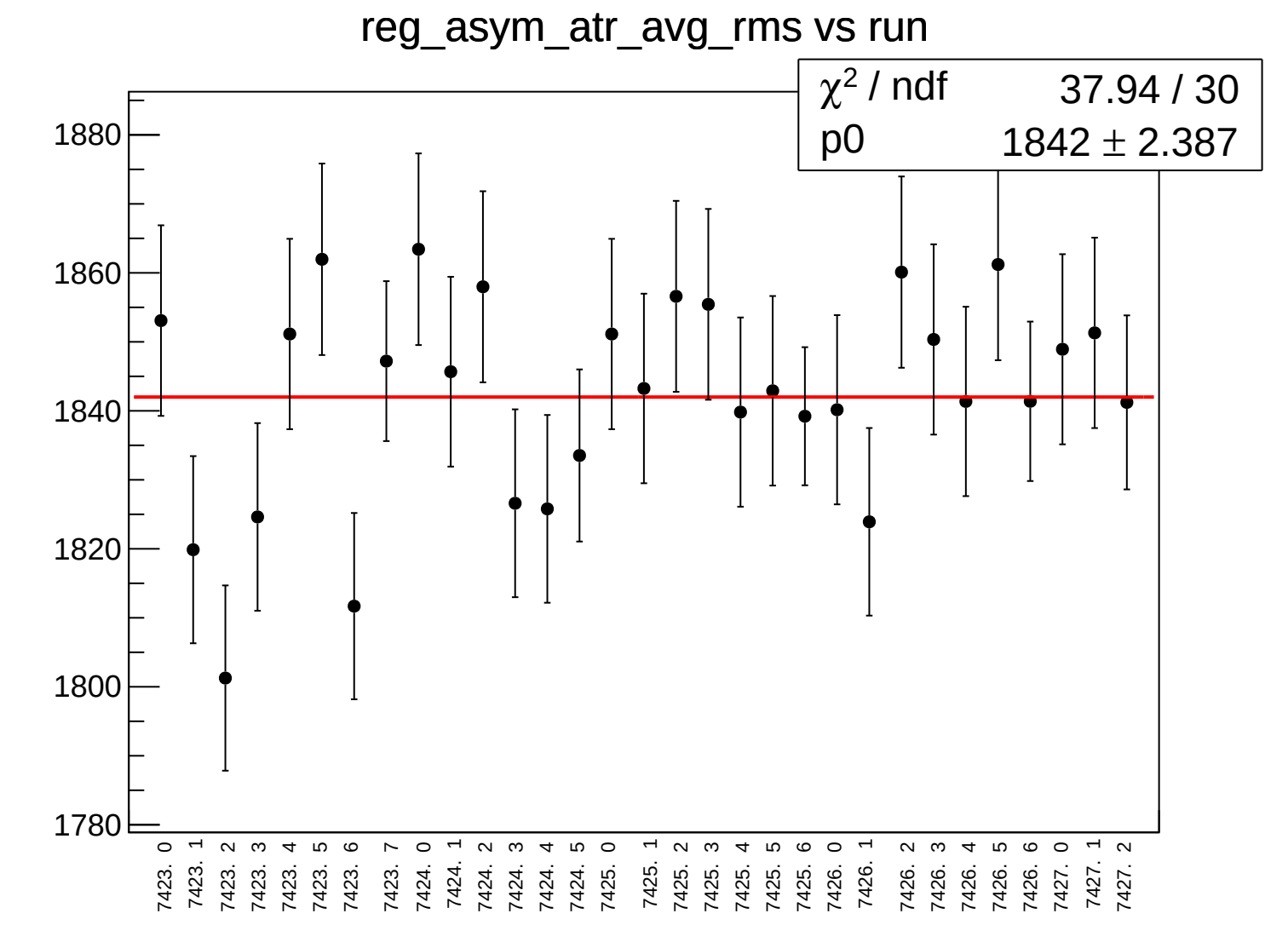

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3709 / 30
p0 531.7 ± 0.6911
700
650
600
550
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

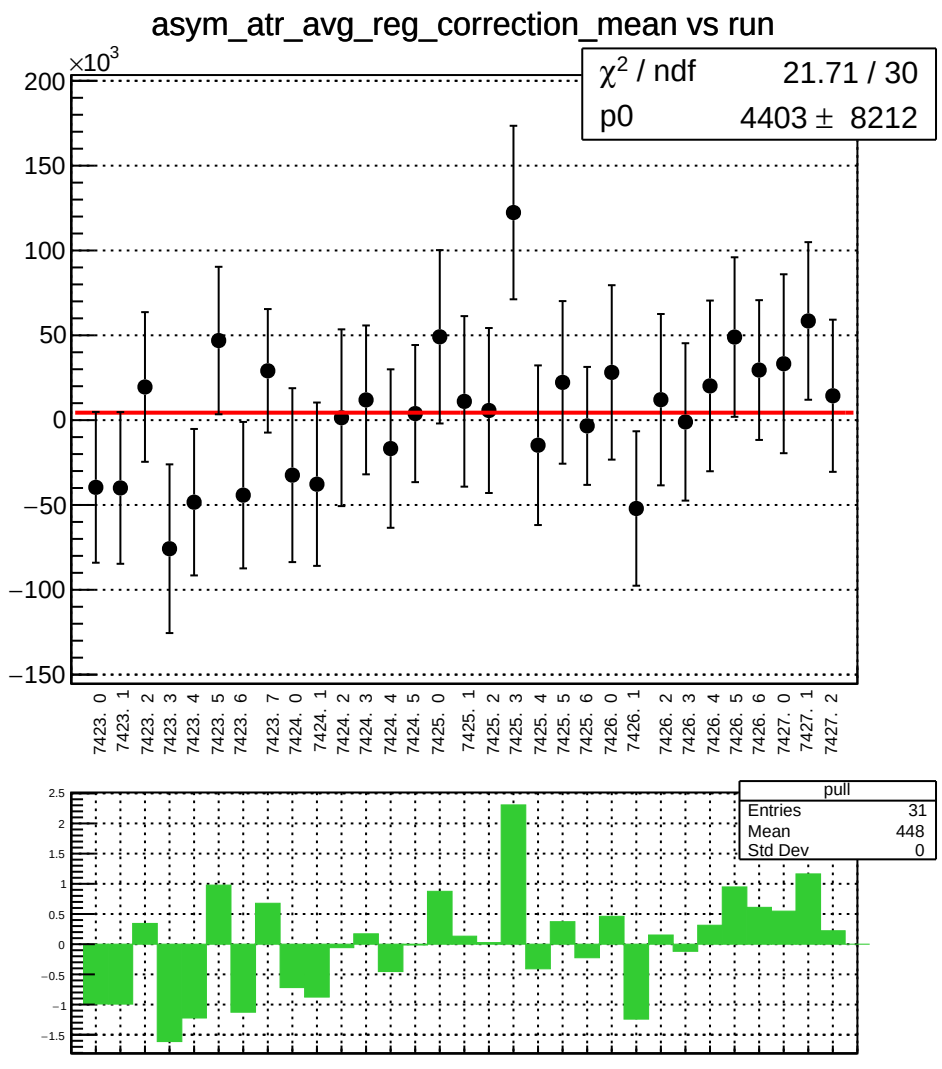

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.6 / 30
p0 9.782e−14 ± 6.856e−14
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −29.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.06552
Std Dev 1.211
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

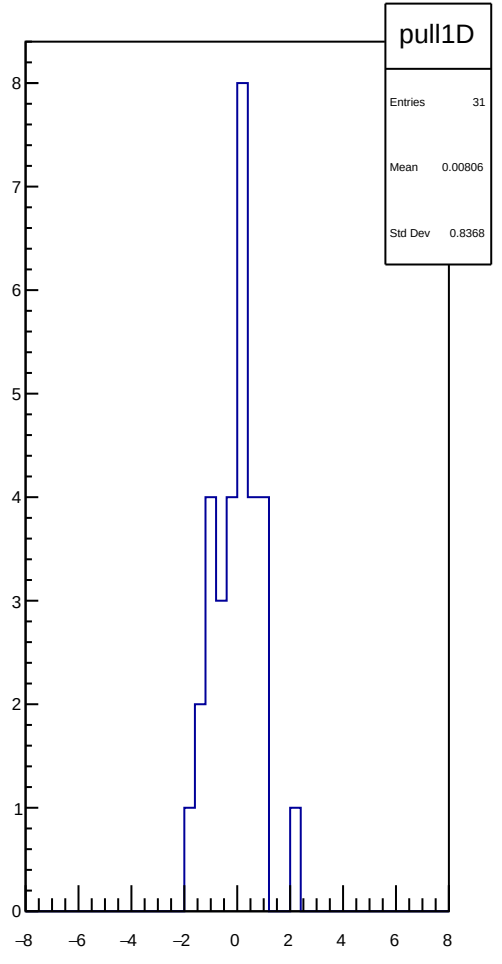

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.24e+05 / 30
p0 3.329e−11 ± 4.848e−14
90
80
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

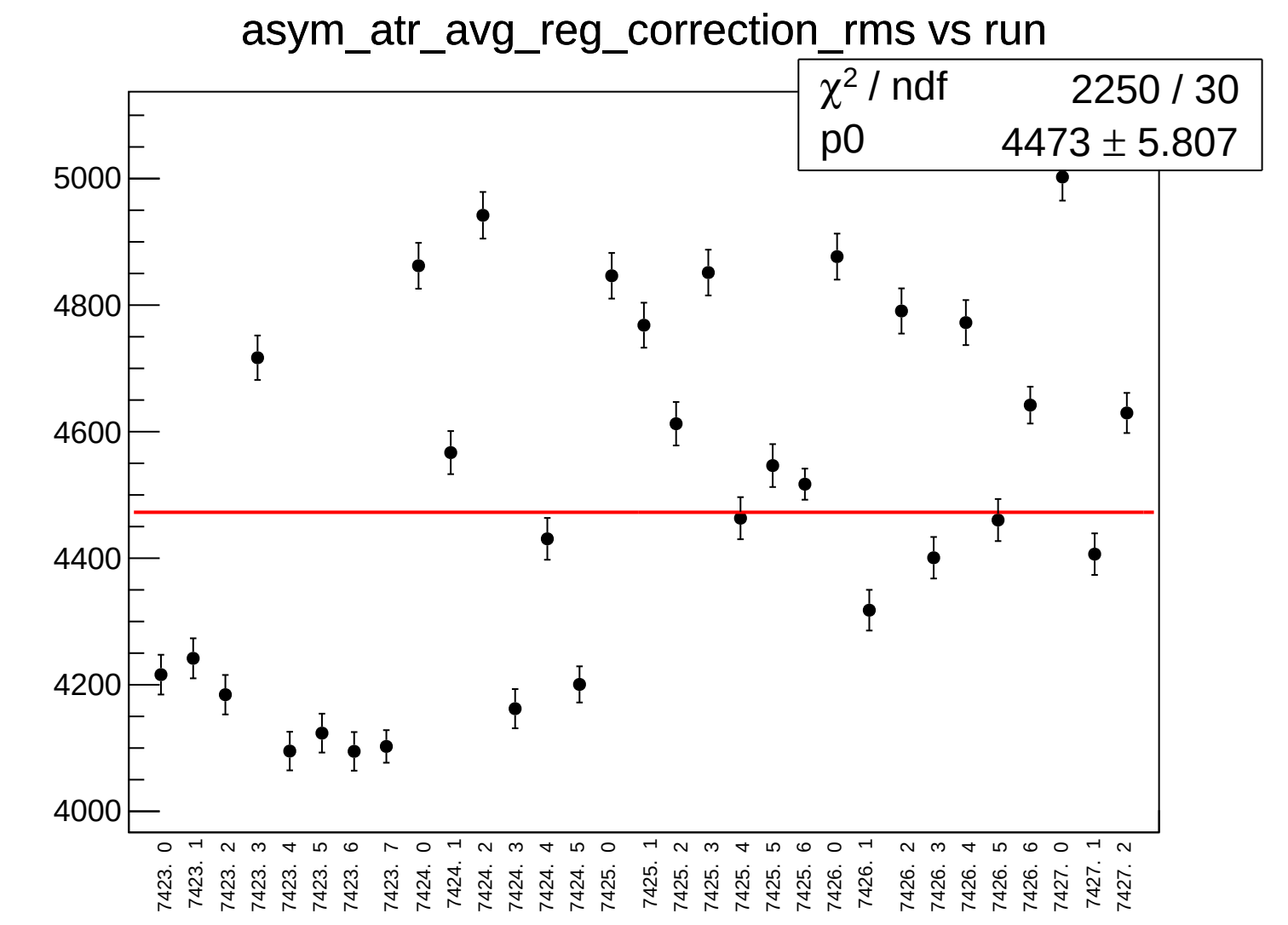

reg_asym_atr_avg_mean vs run
χ² / ndf 18.78 / 30
p0 −5678 ± 3376
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1042
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

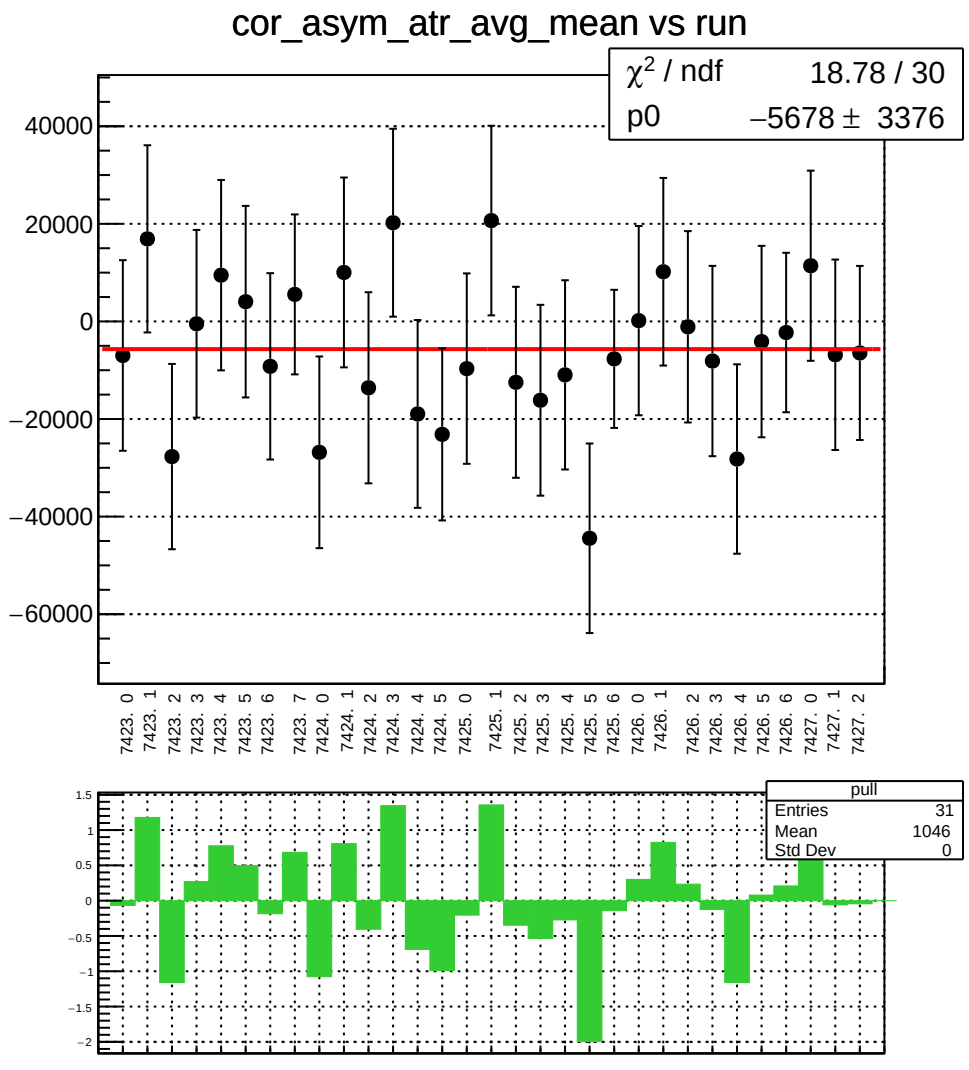

pull1D
Entries 31
Mean −0.0005742
Std Dev 0.7783
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

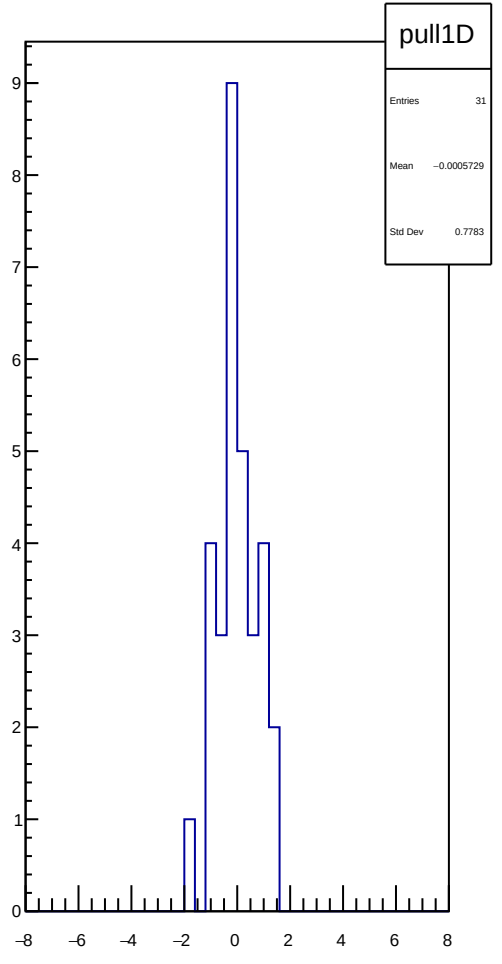

reg_asym_atr_avg_rms vs run
χ² / ndf 37.94 / 30
p0 1842 ± 2.387
1880
1860
1840
1820
1800
1780
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

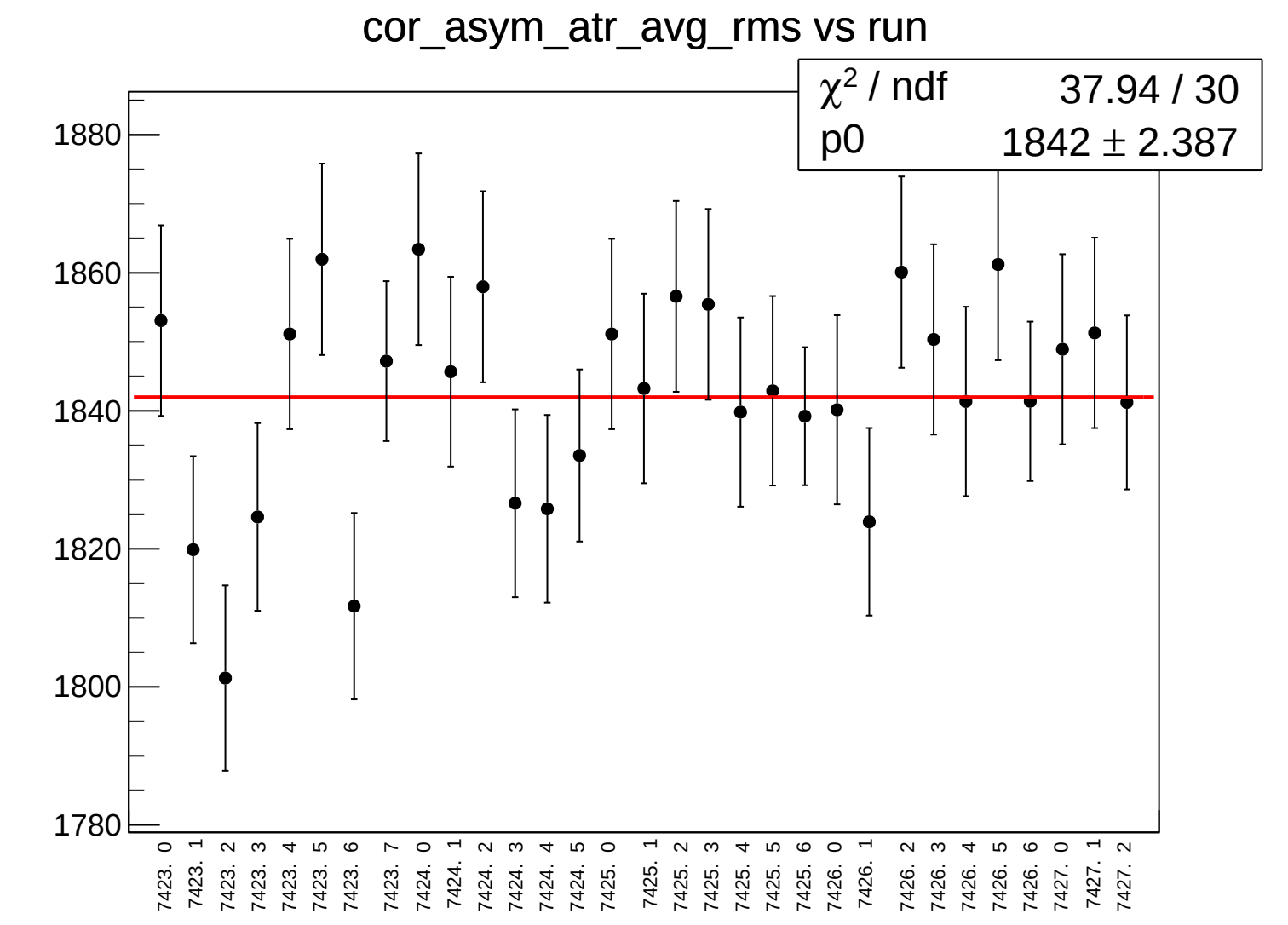

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 21.71 / 30
p0 4403 ± 8212
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 448
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

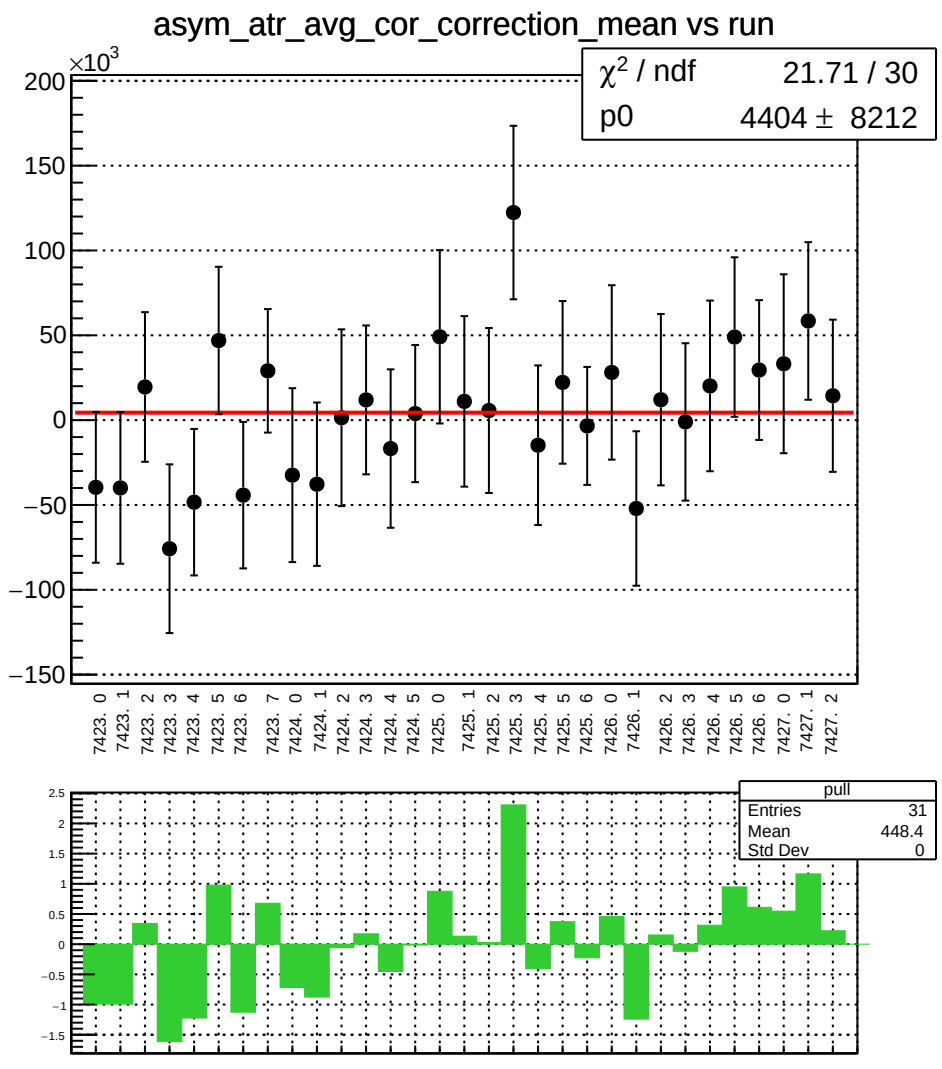

pull1D
Entries 31
Mean 0.00806
Std Dev 0.8368
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

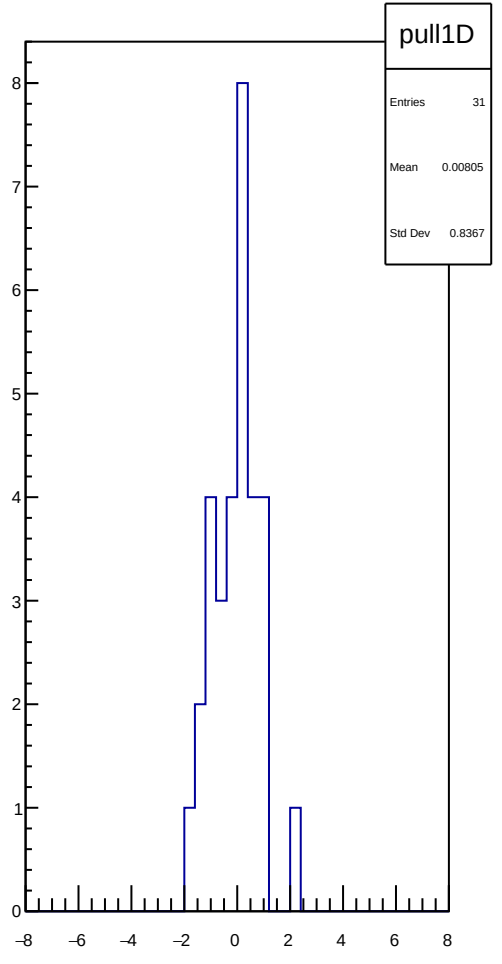

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 2250 / 30
p0 4473 ± 5.807
5000
4800
4600
4400
4200
4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

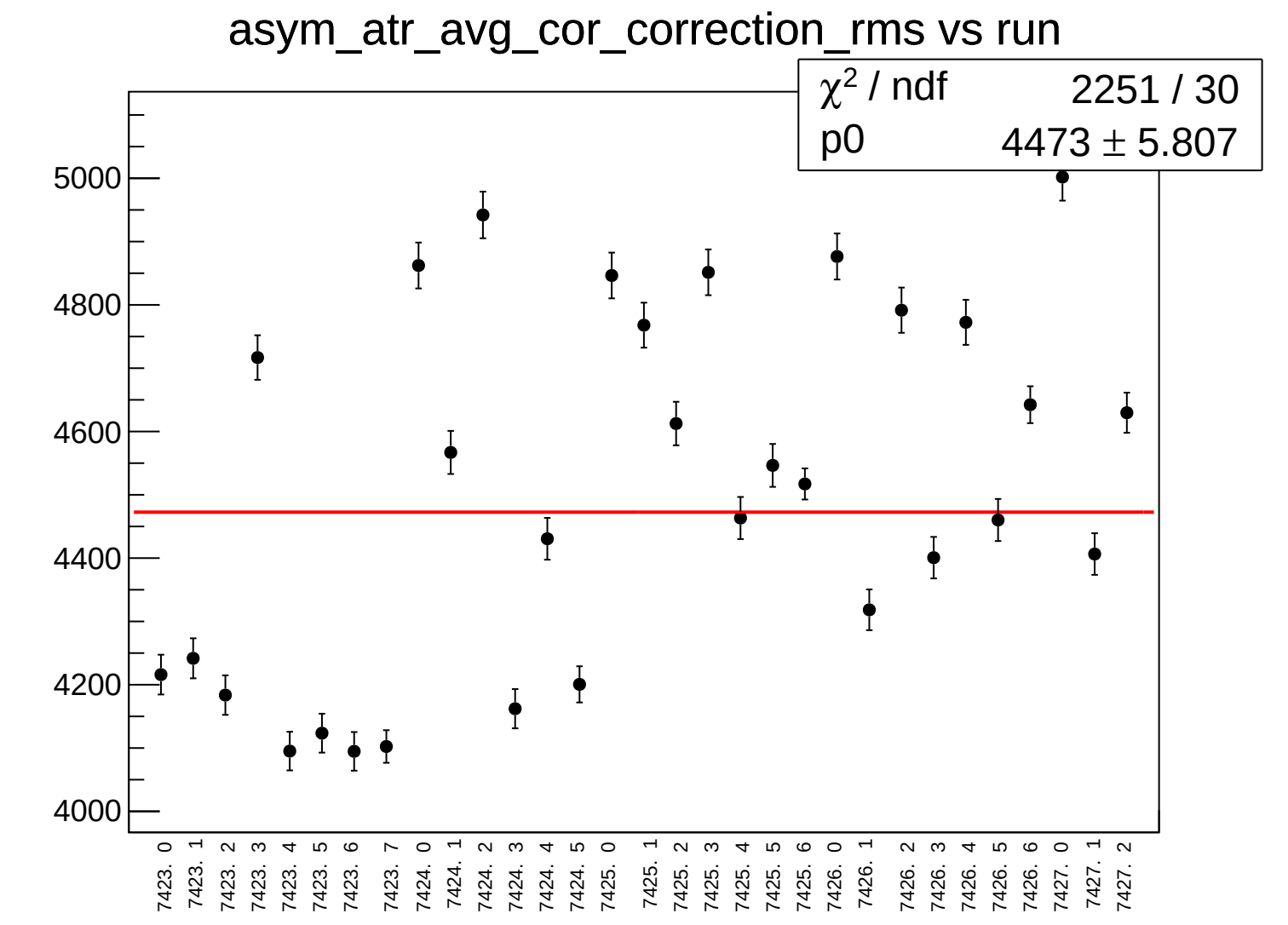

cor_asym_atr_avg_mean vs run
χ² / ndf 18.78 / 30
p0 −5678 ± 3376
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1046
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

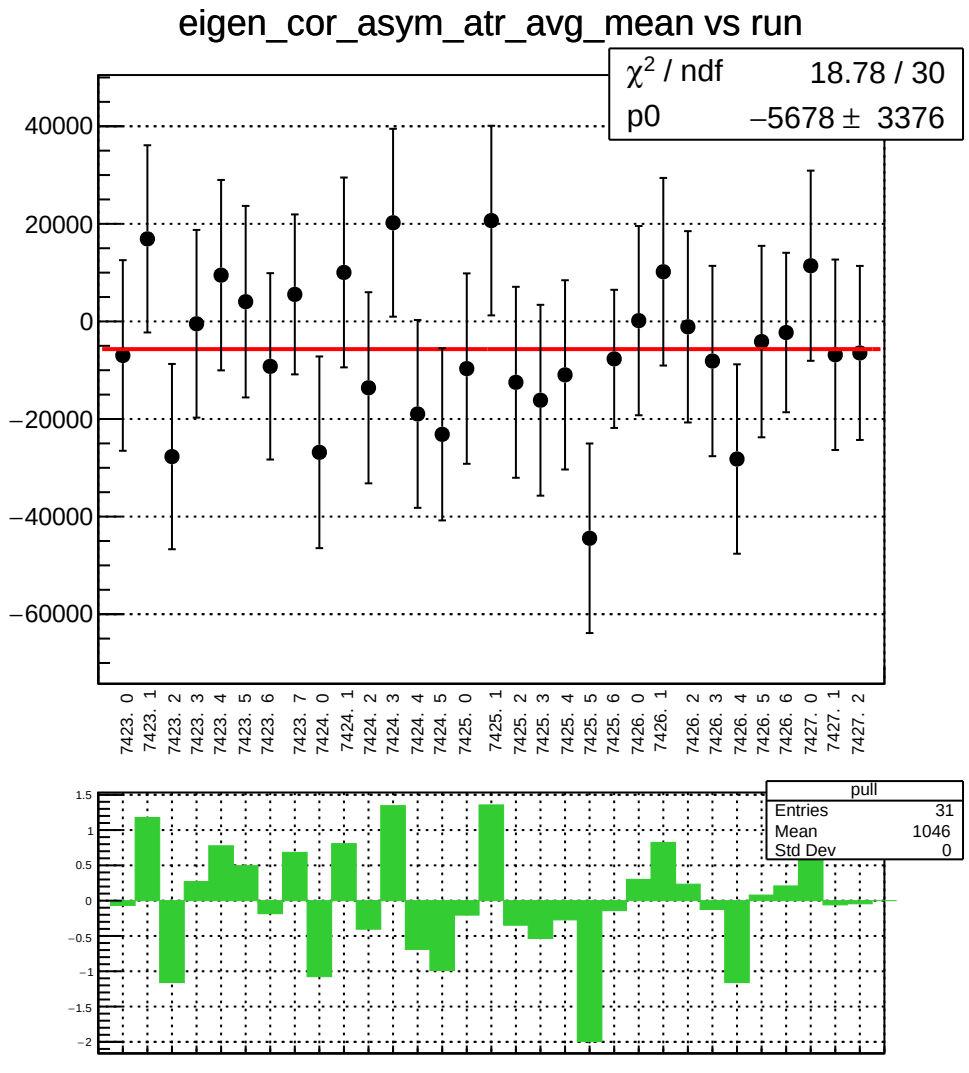

pull1D
Entries 31
Mean −0.0005729
Std Dev 0.7783
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

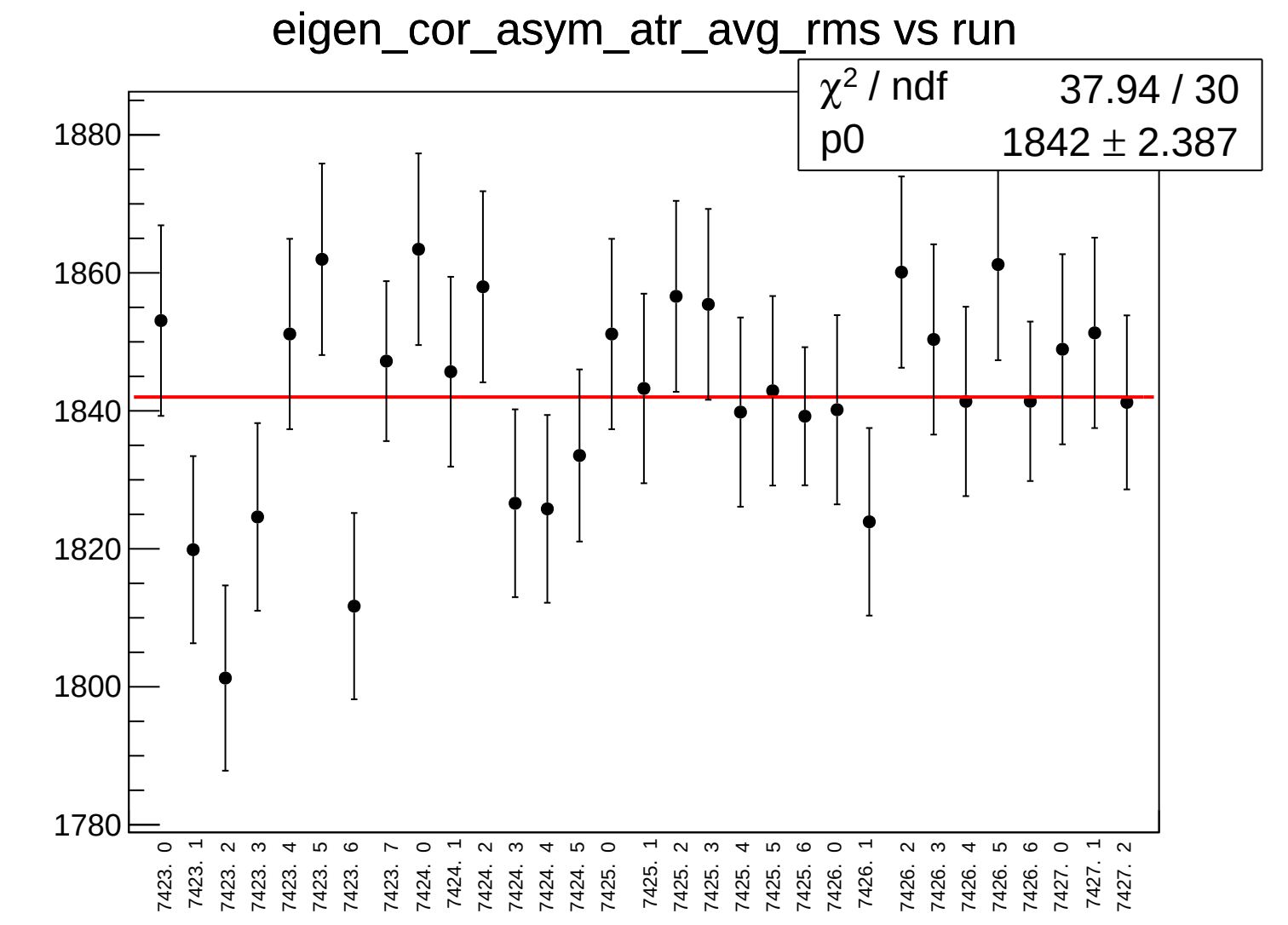

cor_asym_atr_avg_rms vs run
χ² / ndf 37.94 / 30
p0 1842 ± 2.387
1880
1860
1840
1820
1800
1780
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

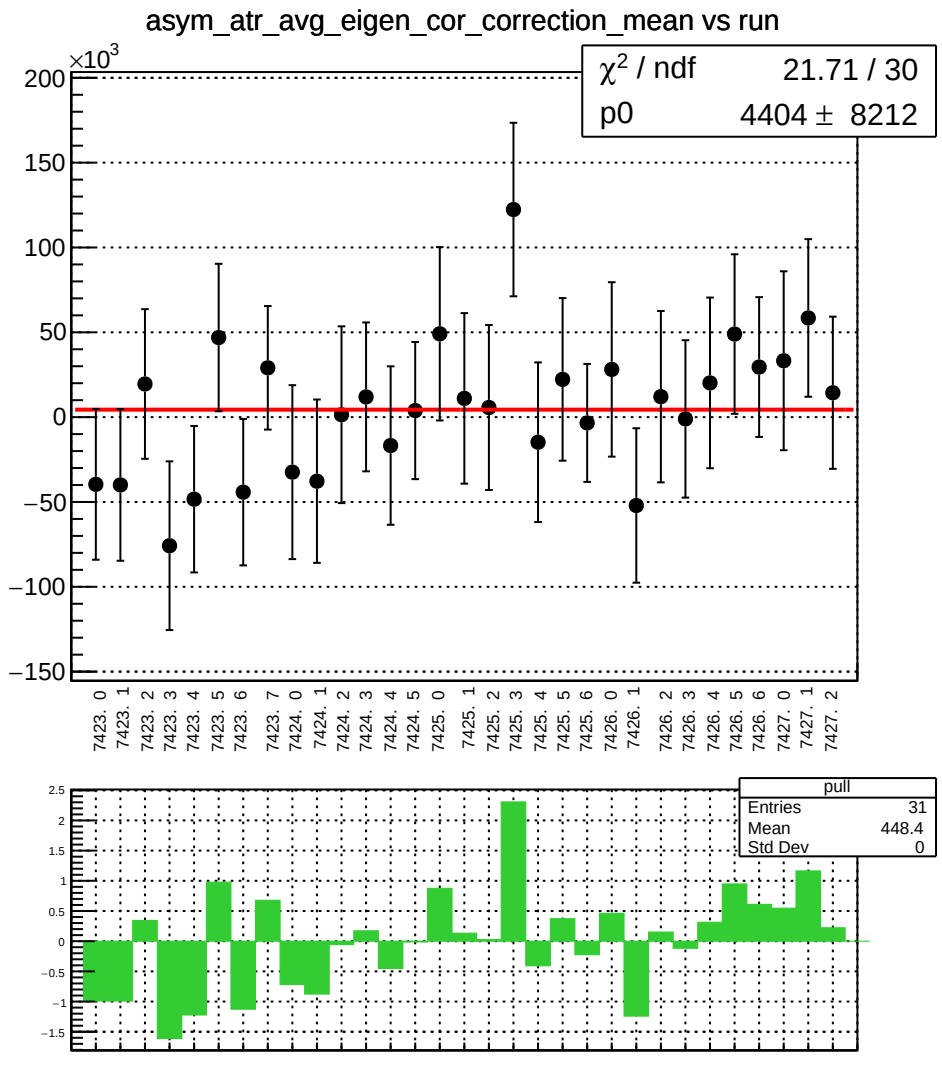

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 21.71 / 30
p0 4404 ± 8212
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 448.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

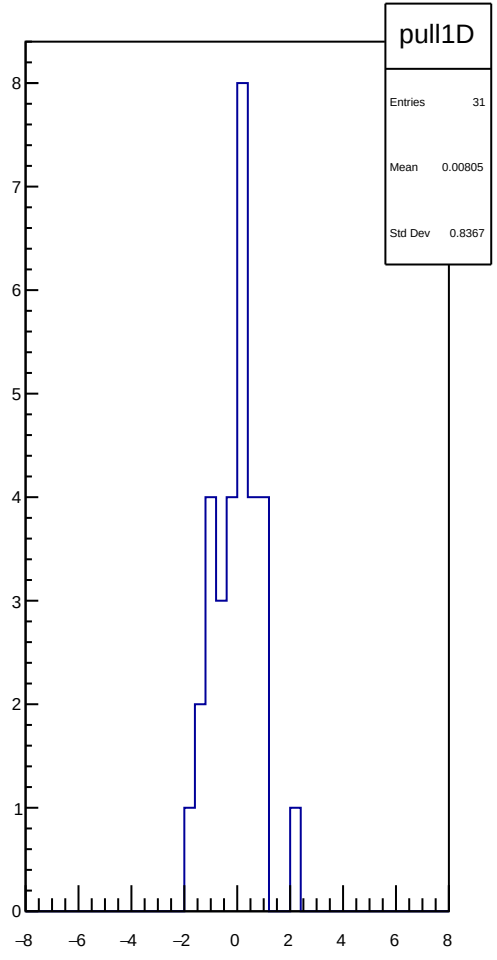

pull1D
Entries 31
Mean 0.00805
Std Dev 0.8367
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

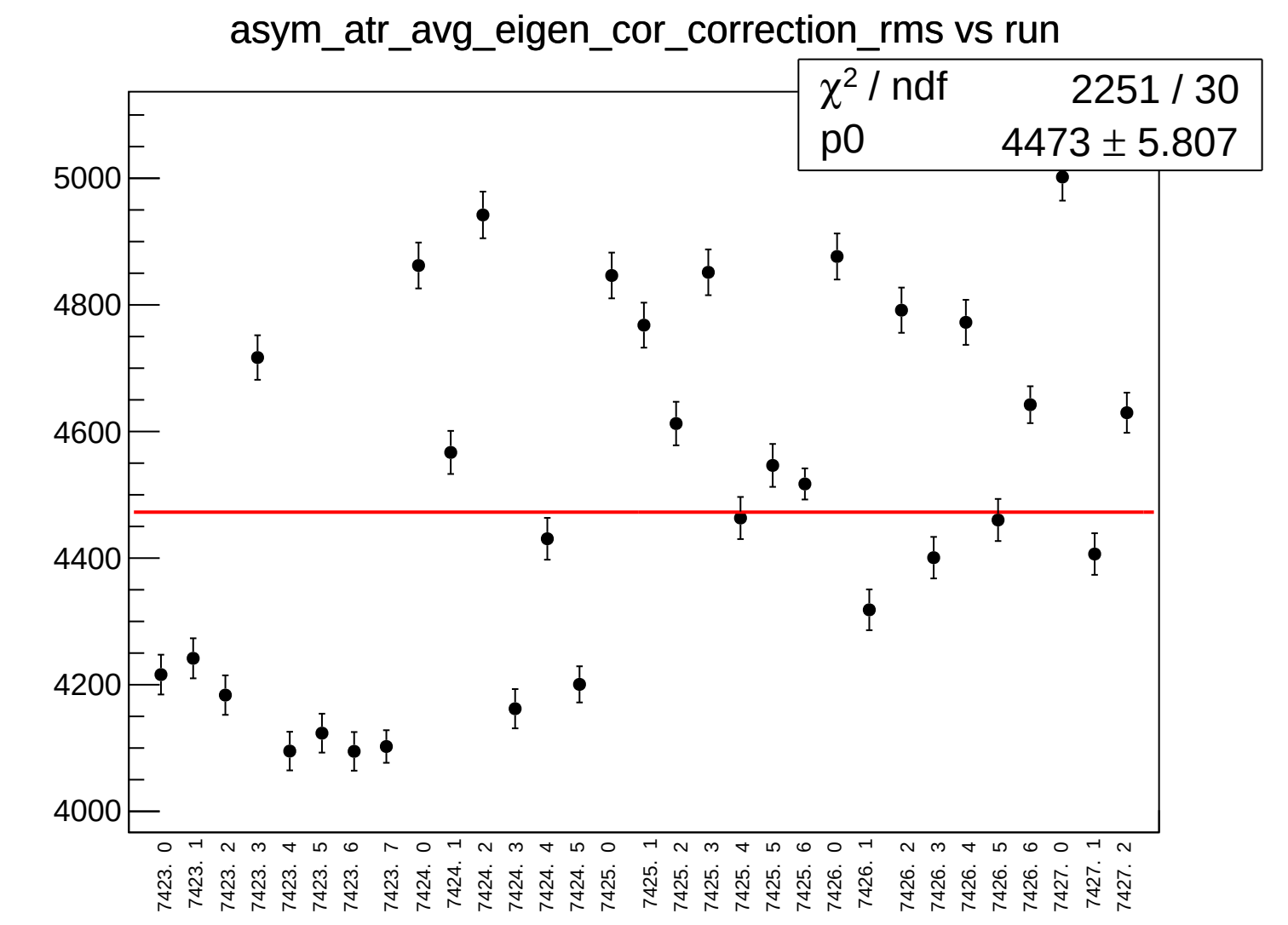

asym_atr_avg_cor_correction_rms vs run
χ^2 / ndf 2251 / 30
p0 4473 ± 5.807
5000
4800
4600
4400
4200
4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

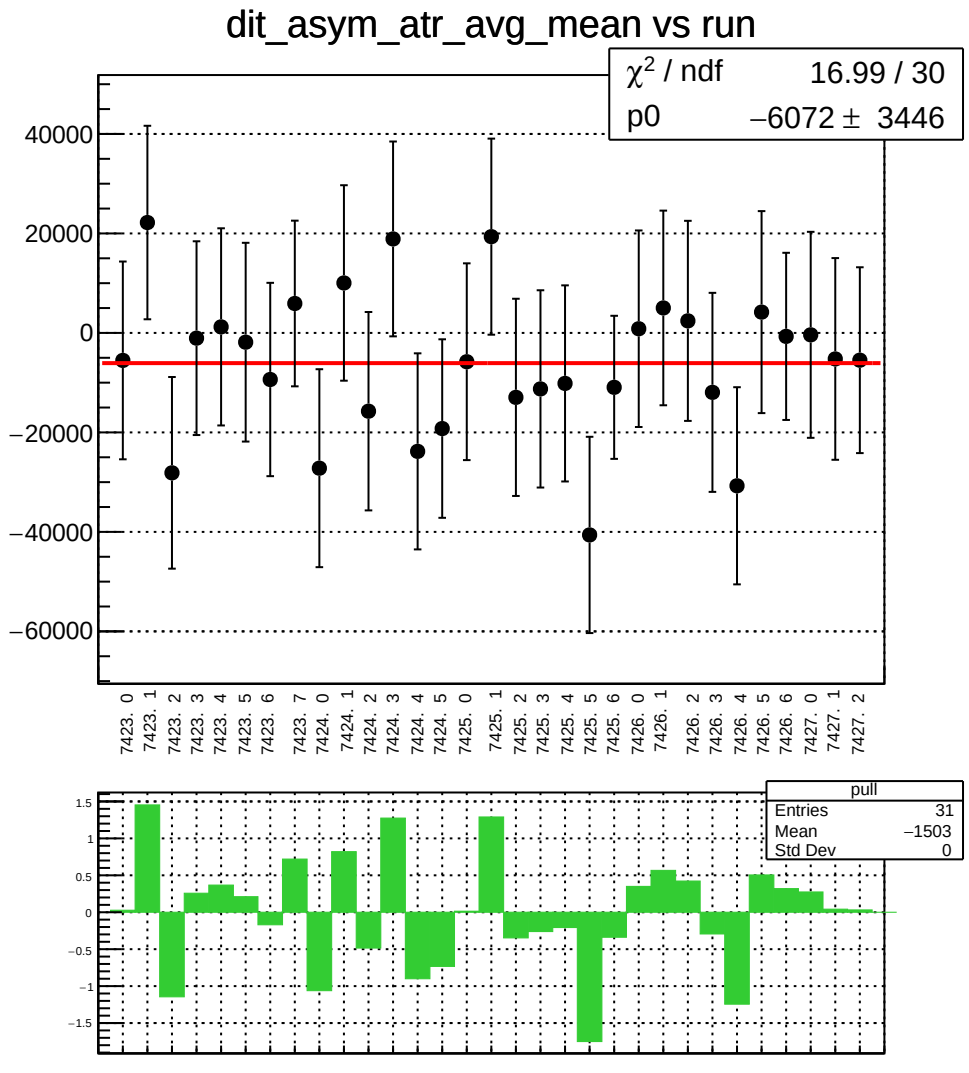

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 18.78 / 30
p0 −5678 ± 3376
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1046
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.0005729
Std Dev 0.7783
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

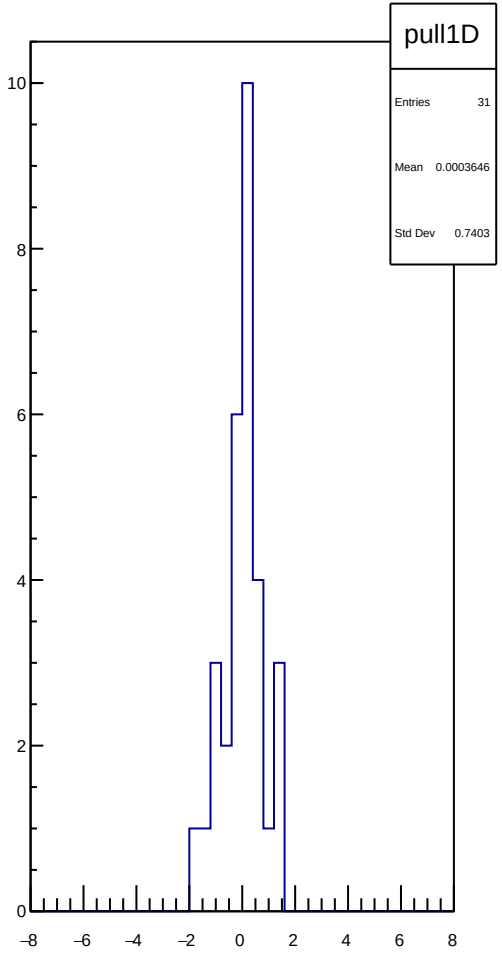

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 37.94 / 30
p0 1842 ± 2.387
1880
1860
1840
1820
1800
1780
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

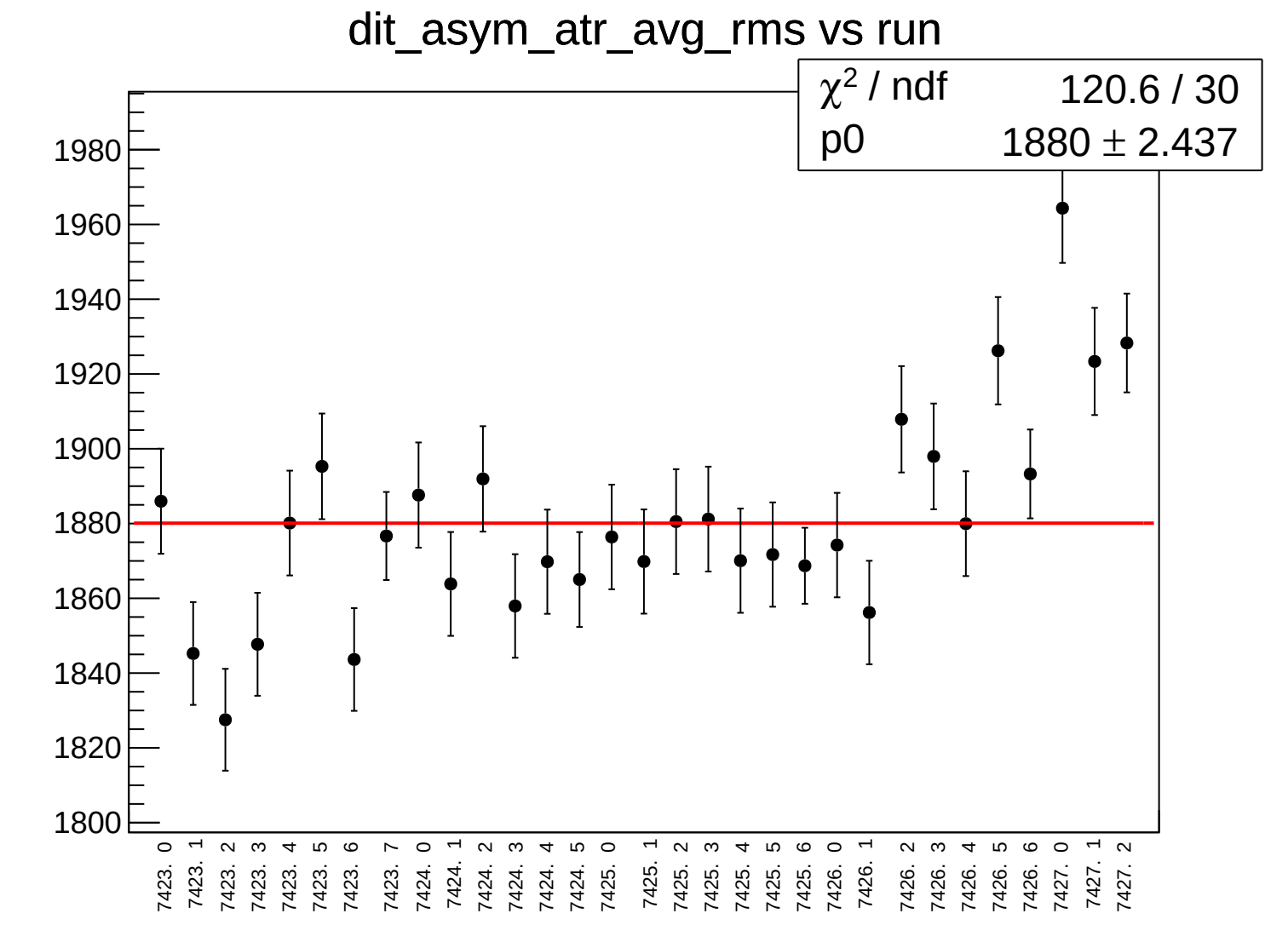

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 21.71 / 30
p0 4404 ± 8212
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 448.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

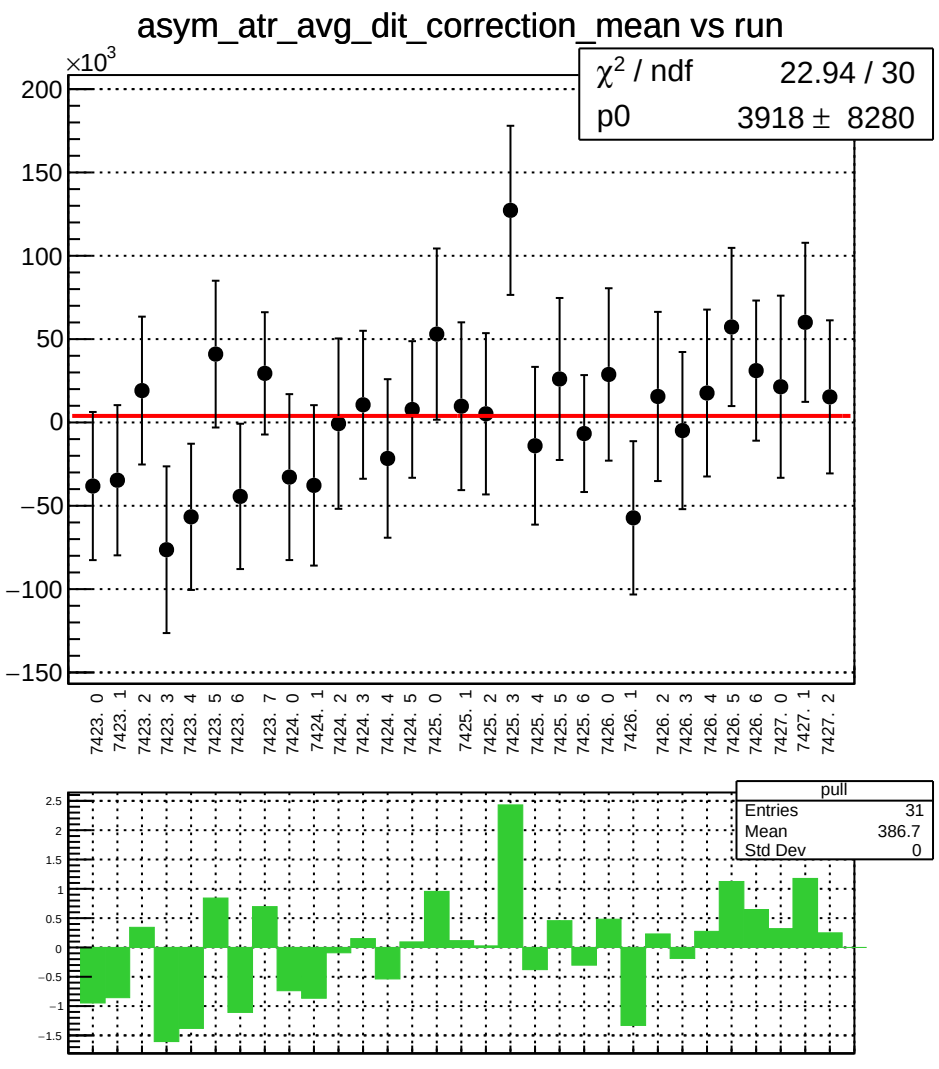

pull1D
Entries 31
Mean 0.00805
Std Dev 0.8367
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

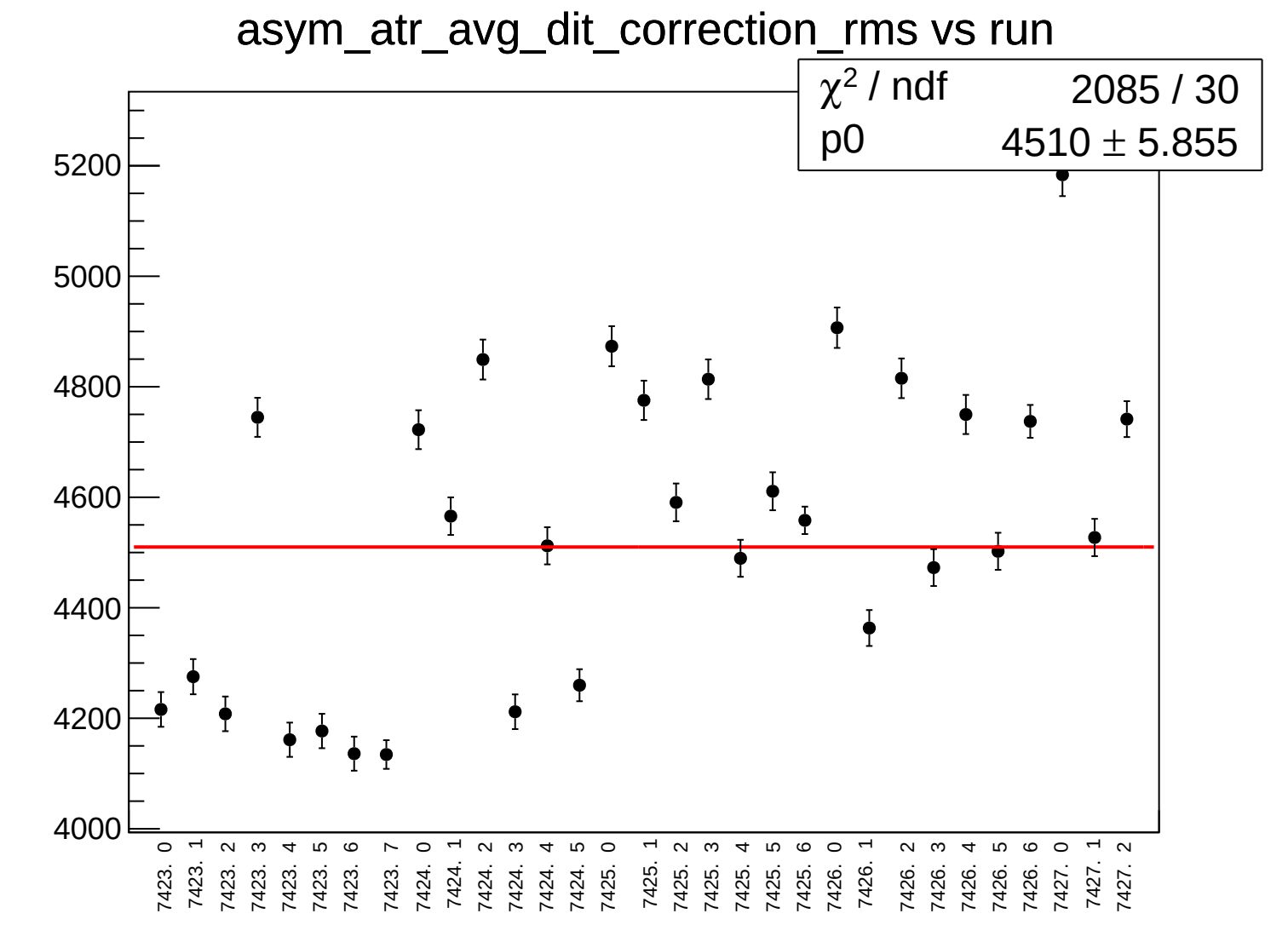

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 2251 / 30
p0 4473 ± 5.807
5000
4800
4600
4400
4200
4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

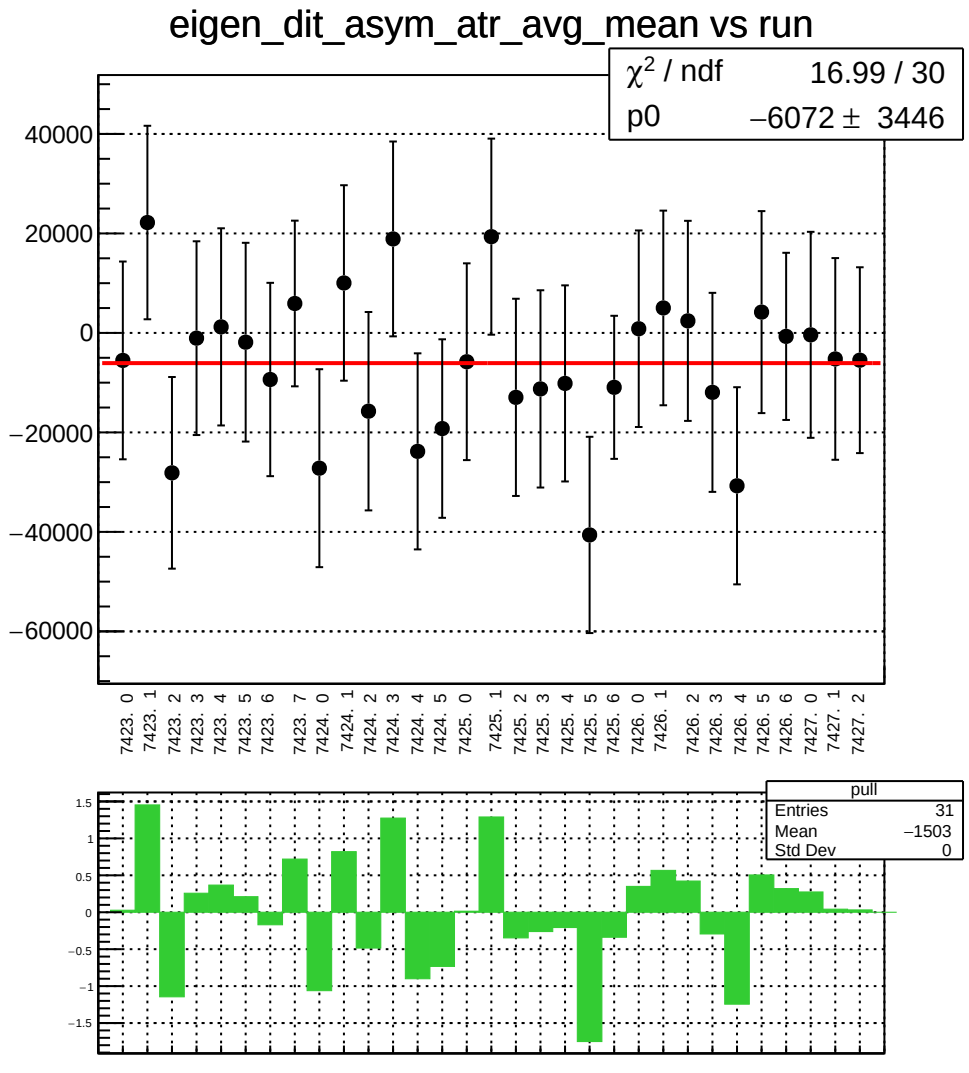

dit_asym_atr_avg_mean vs run
χ² / ndf 16.99 / 30
p0 −6072 ± 3446
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1503
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

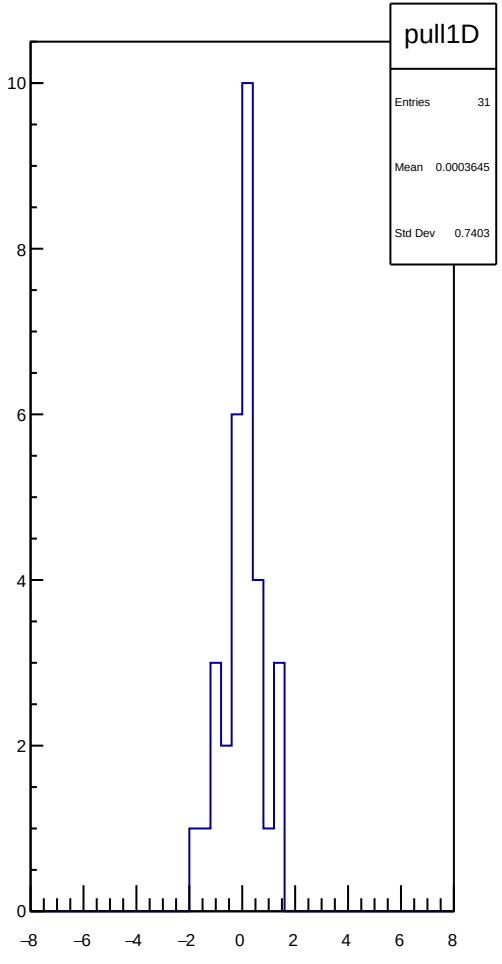

pull1D
Entries 31
Mean 0.0003646
Std Dev 0.7403
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

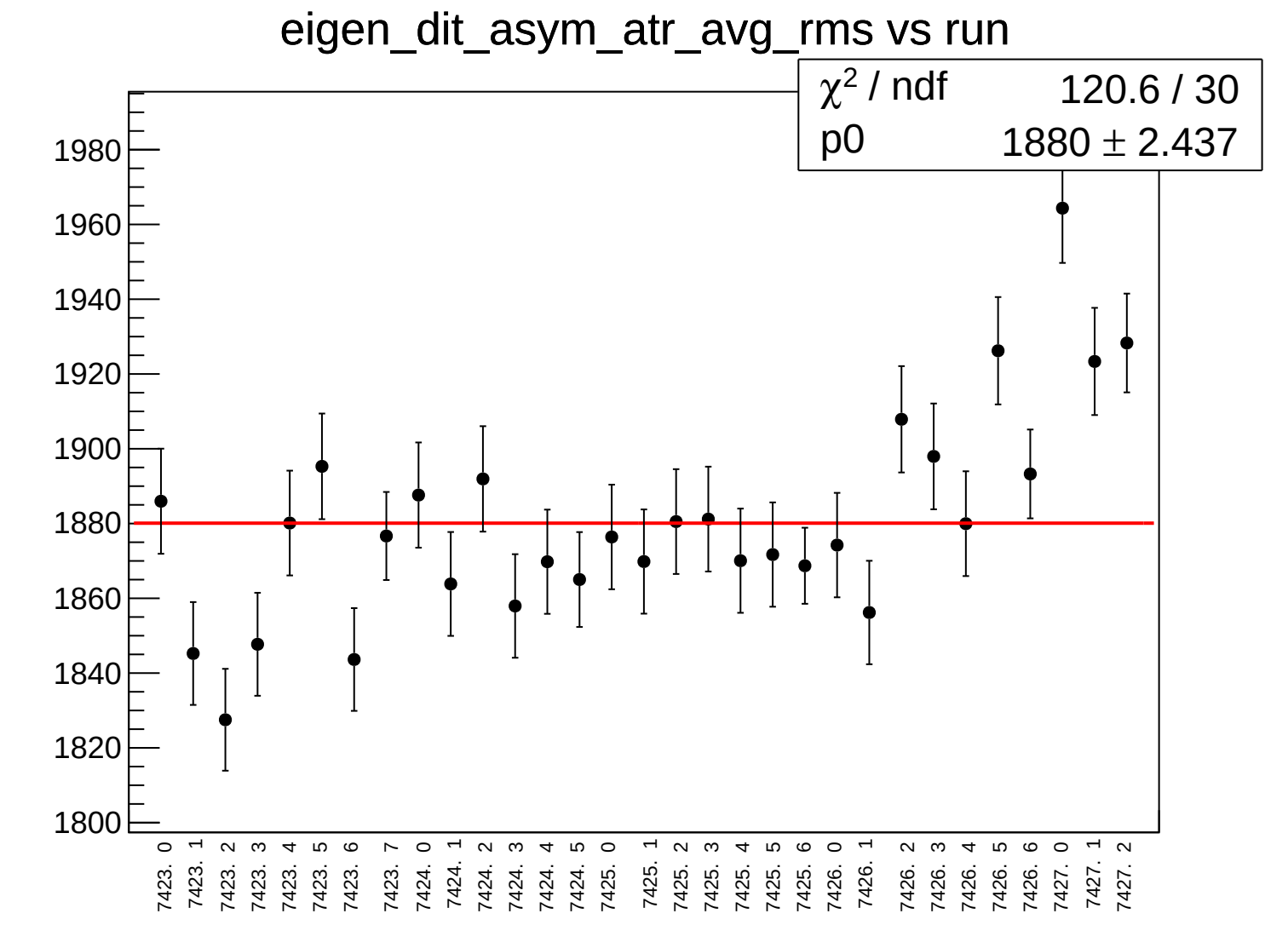

dit_asym_atr_avg_rms vs run
χ² / ndf 120.6 / 30
p0 1880 ± 2.437
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

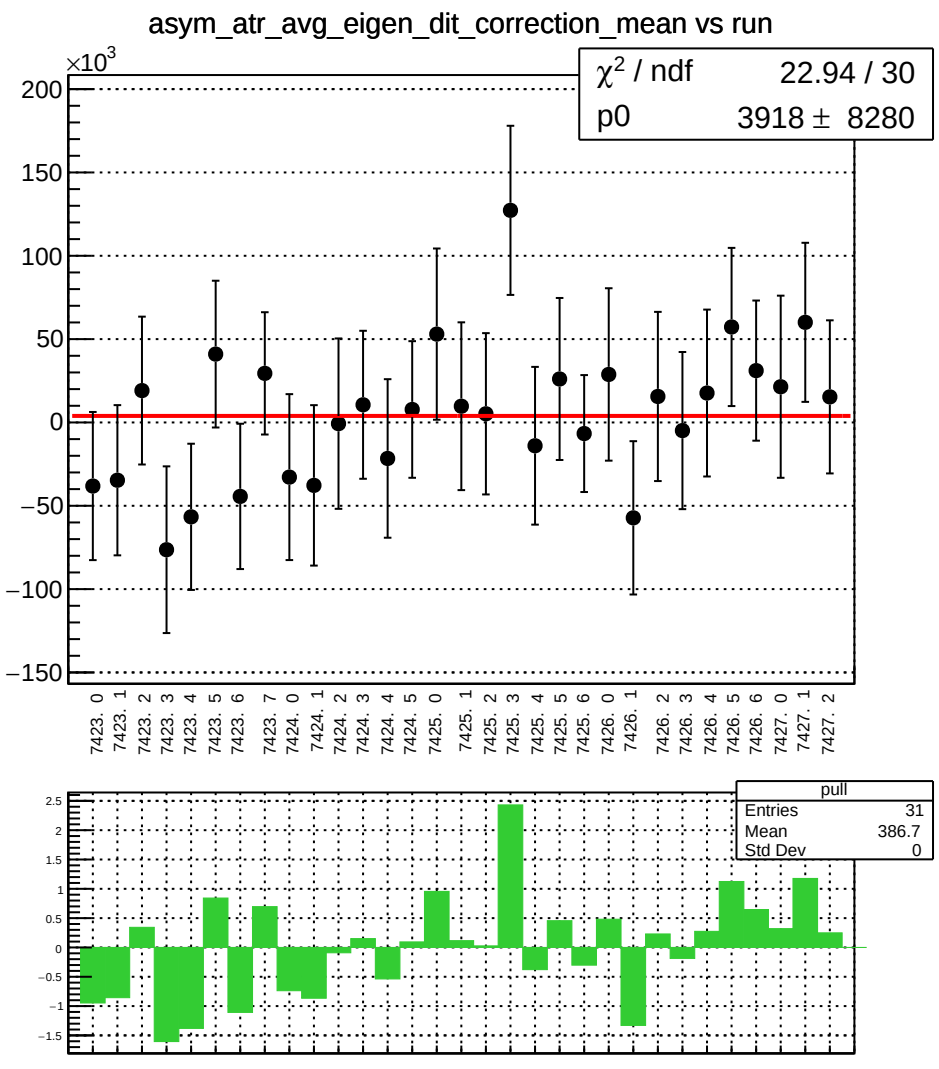

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 22.94 / 30
p0 3918 ± 8280
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 386.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.009375
Std Dev 0.8602
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

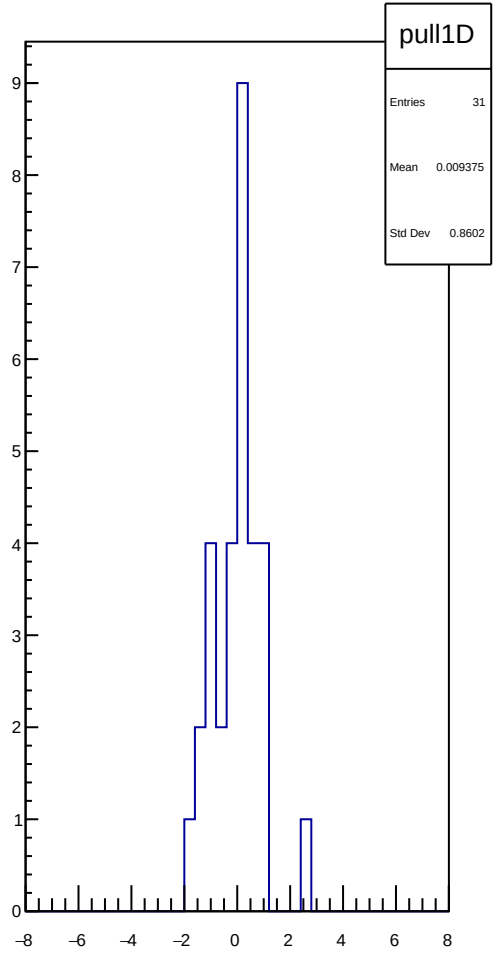

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 2085 / 30
p0 4510 ± 5.855
5200
5000
4800
4600
4400
4200
4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

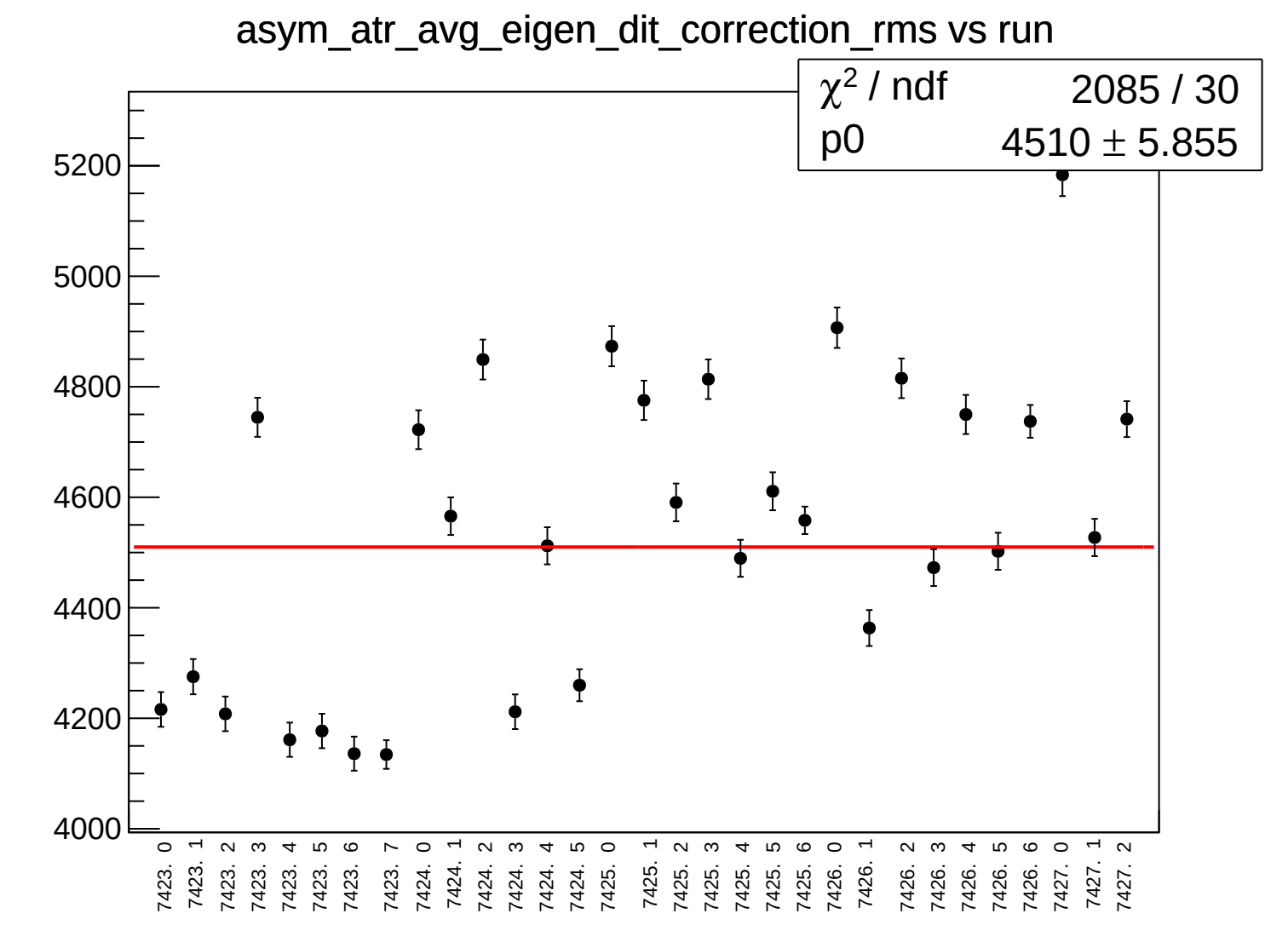

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 16.99 / 30
p0 −6072 ± 3446
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1503
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

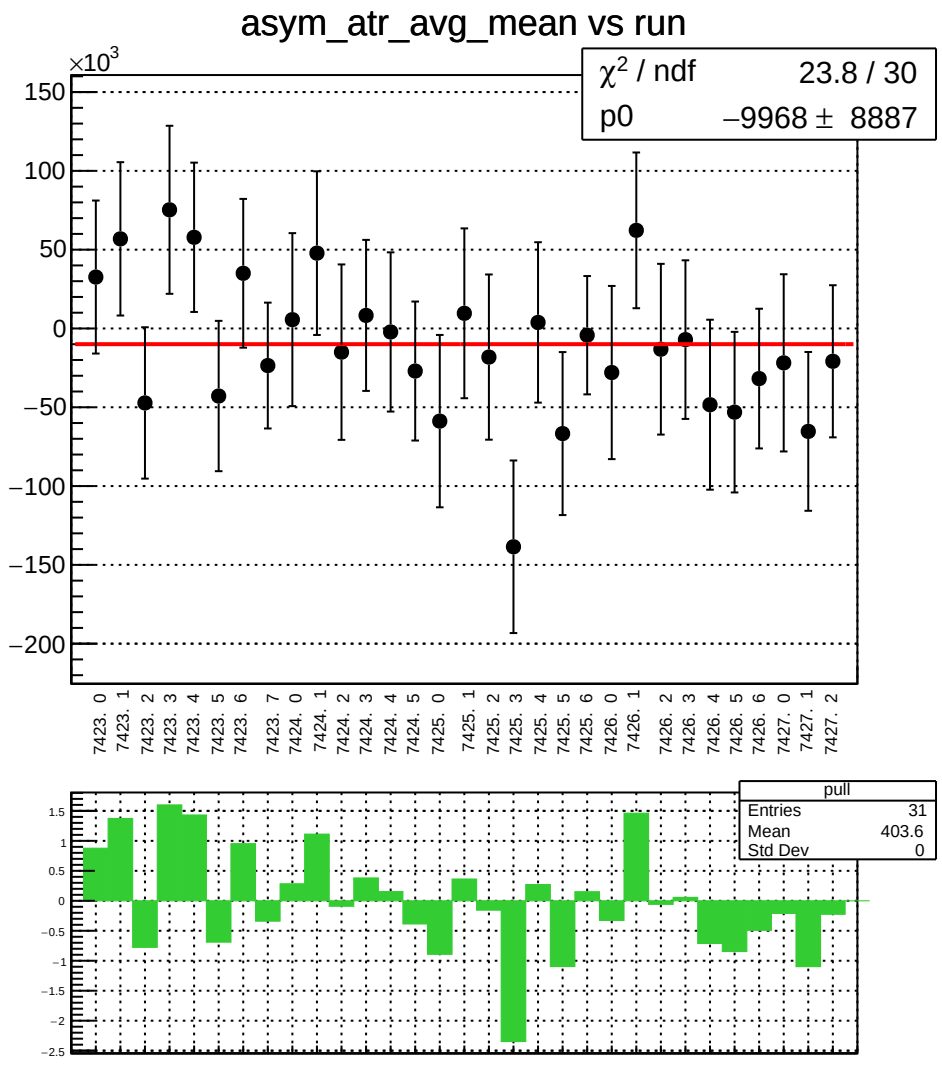

pull1D
Entries 31
Mean 0.0003645
Std Dev 0.7403
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

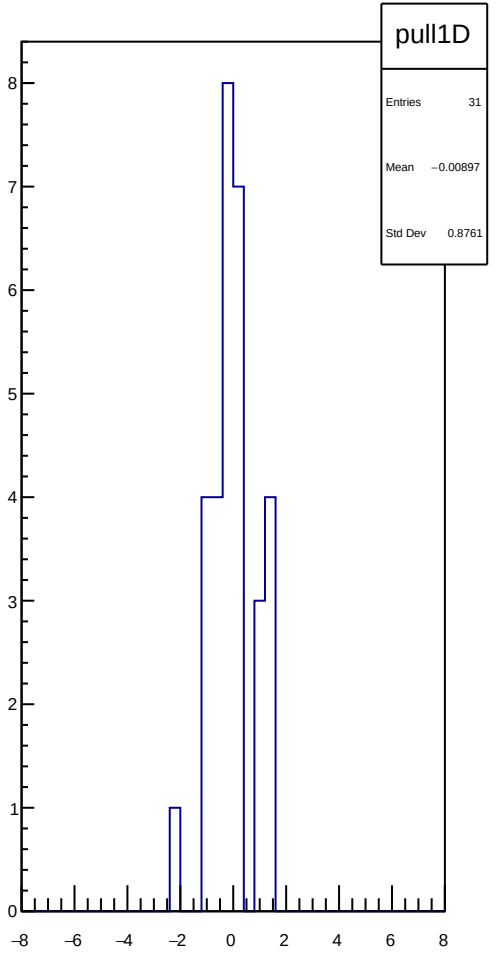

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 120.6 / 30
p0 1880 ± 2.437
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

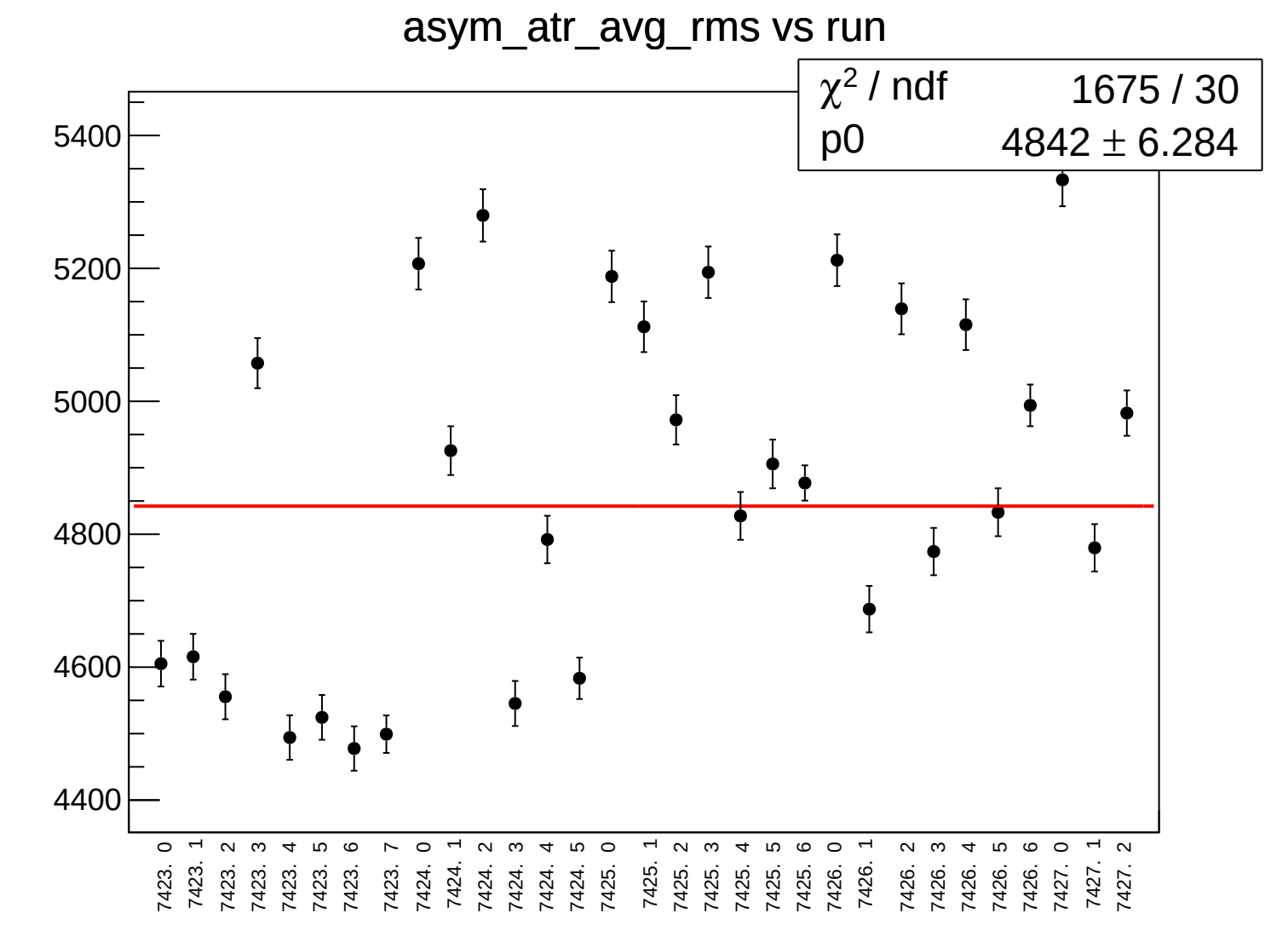

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.94 / 30
p0 3918 ± 8280
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 386.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

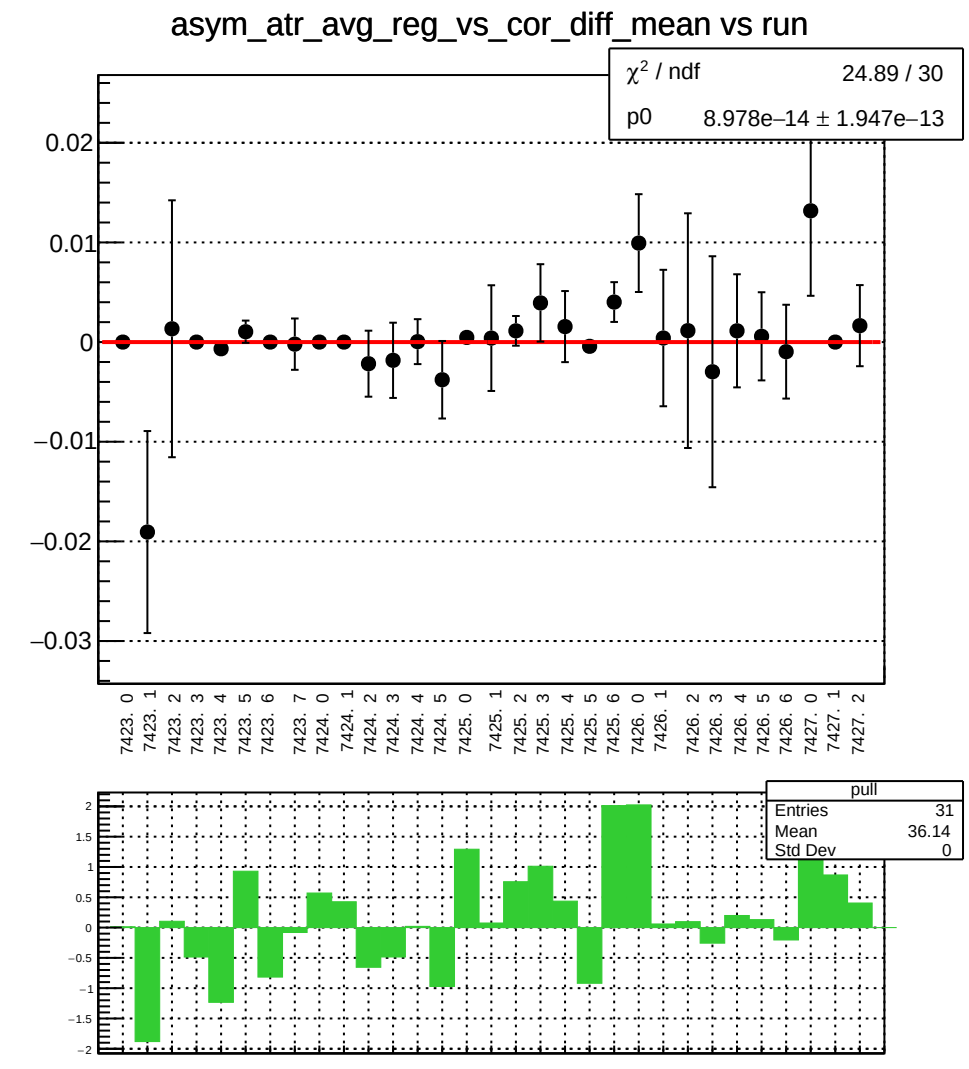

pull1D
Entries 31
Mean 0.009375
Std Dev 0.8602
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

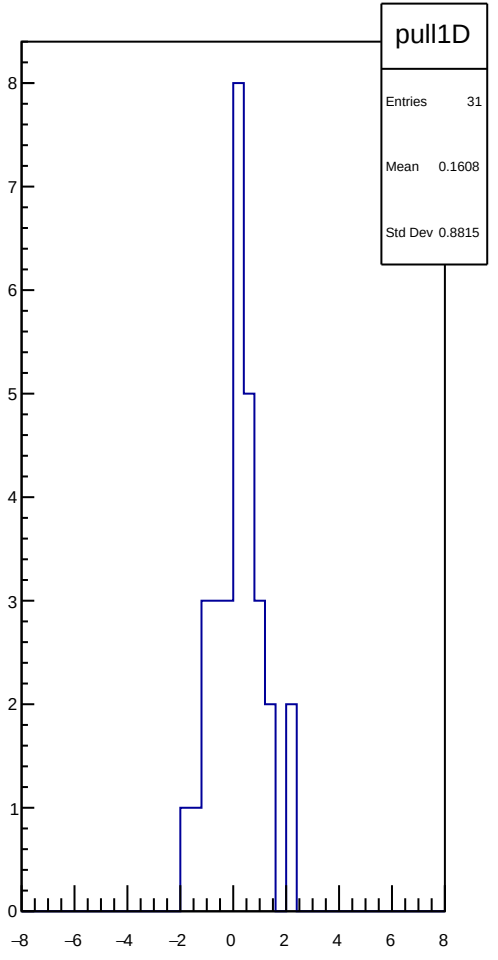

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 2085 / 30
p0 4510 ± 5.855
5200
5000
4800
4600
4400
4200
4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

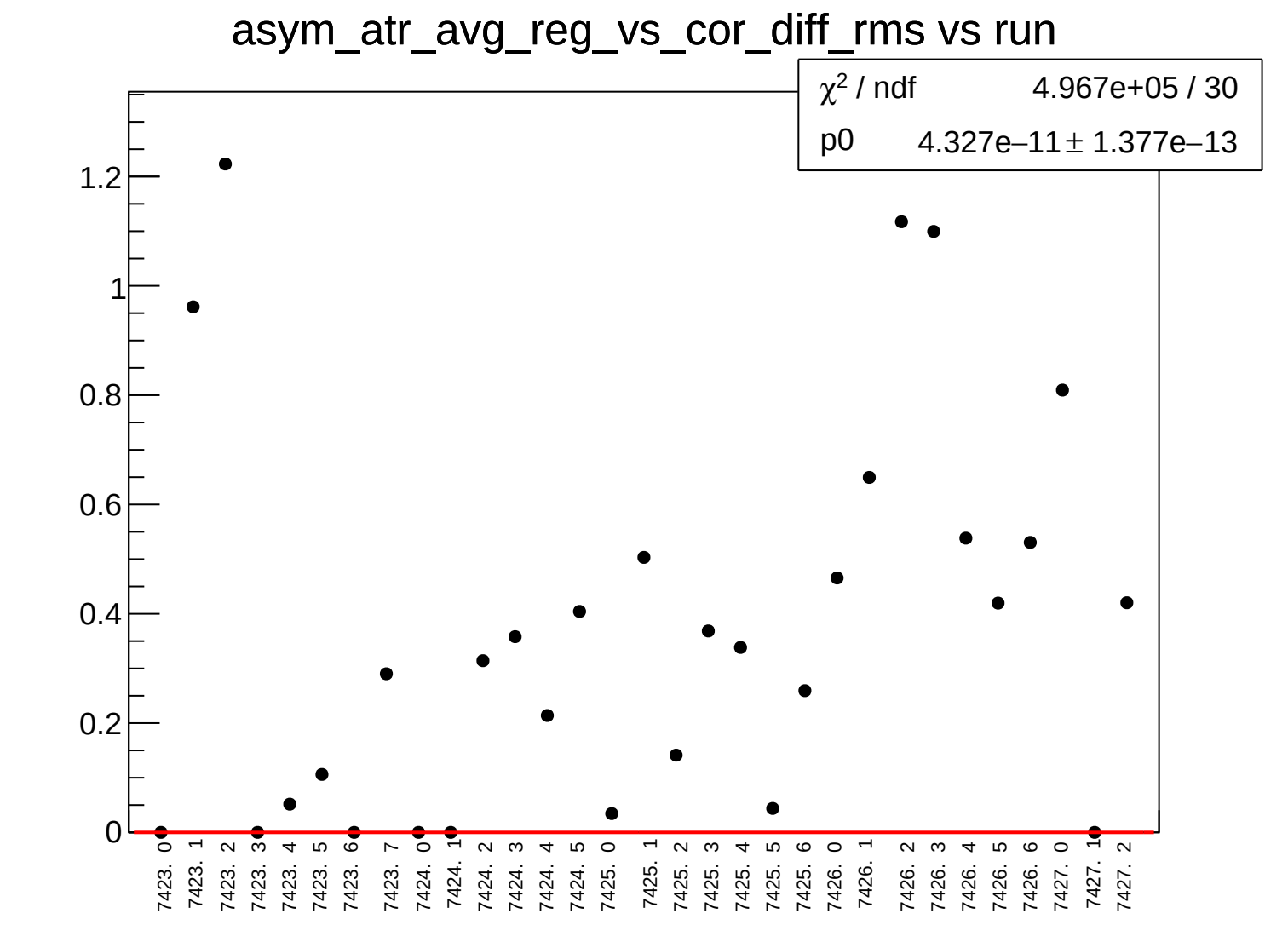

asym_atr_avg_mean vs run
×10^3
χ² / ndf 23.8 / 30
p0 −9968 ± 8887
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 403.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

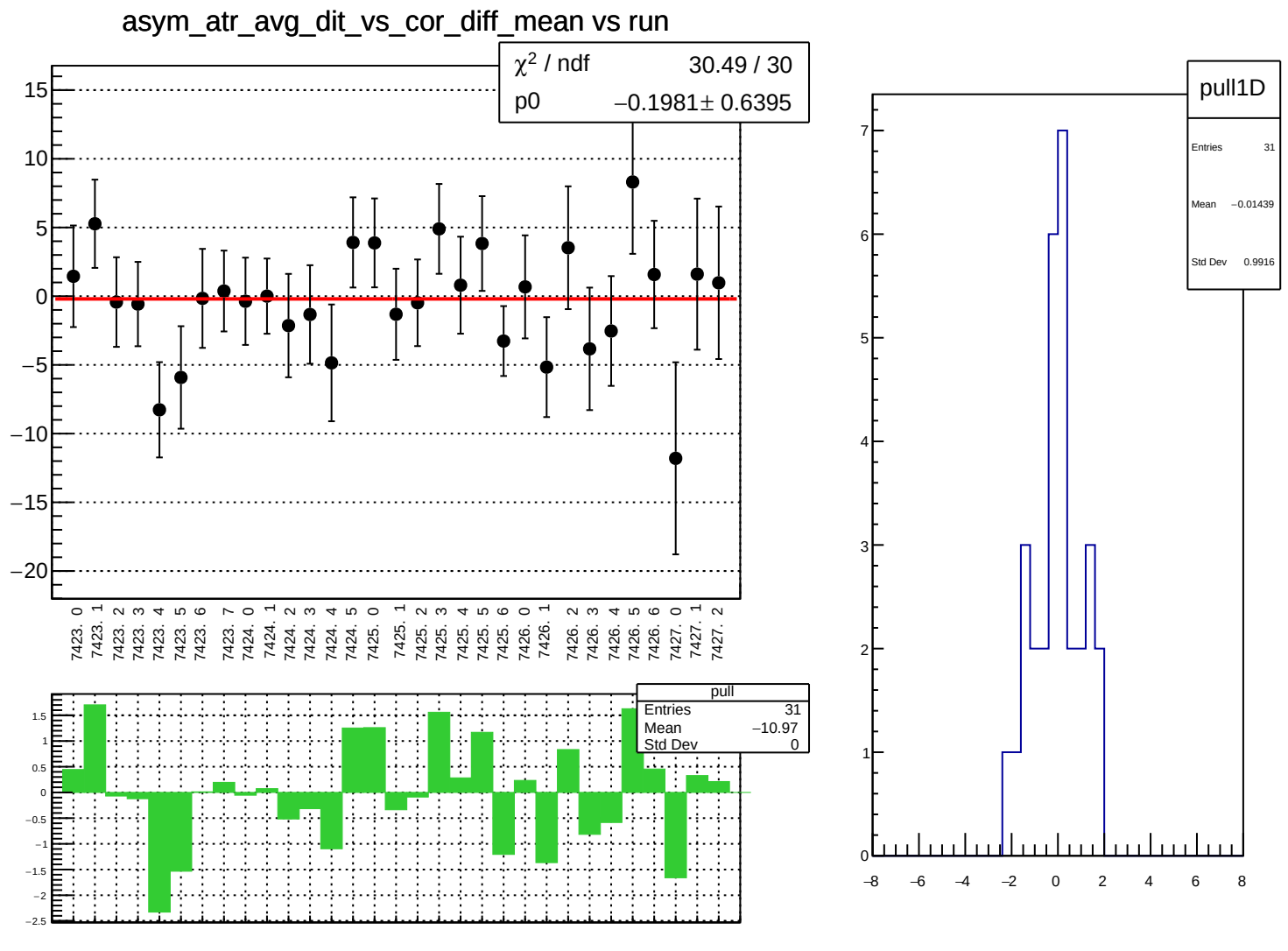

pull1D
Entries 31
Mean −0.00897
Std Dev 0.8761
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

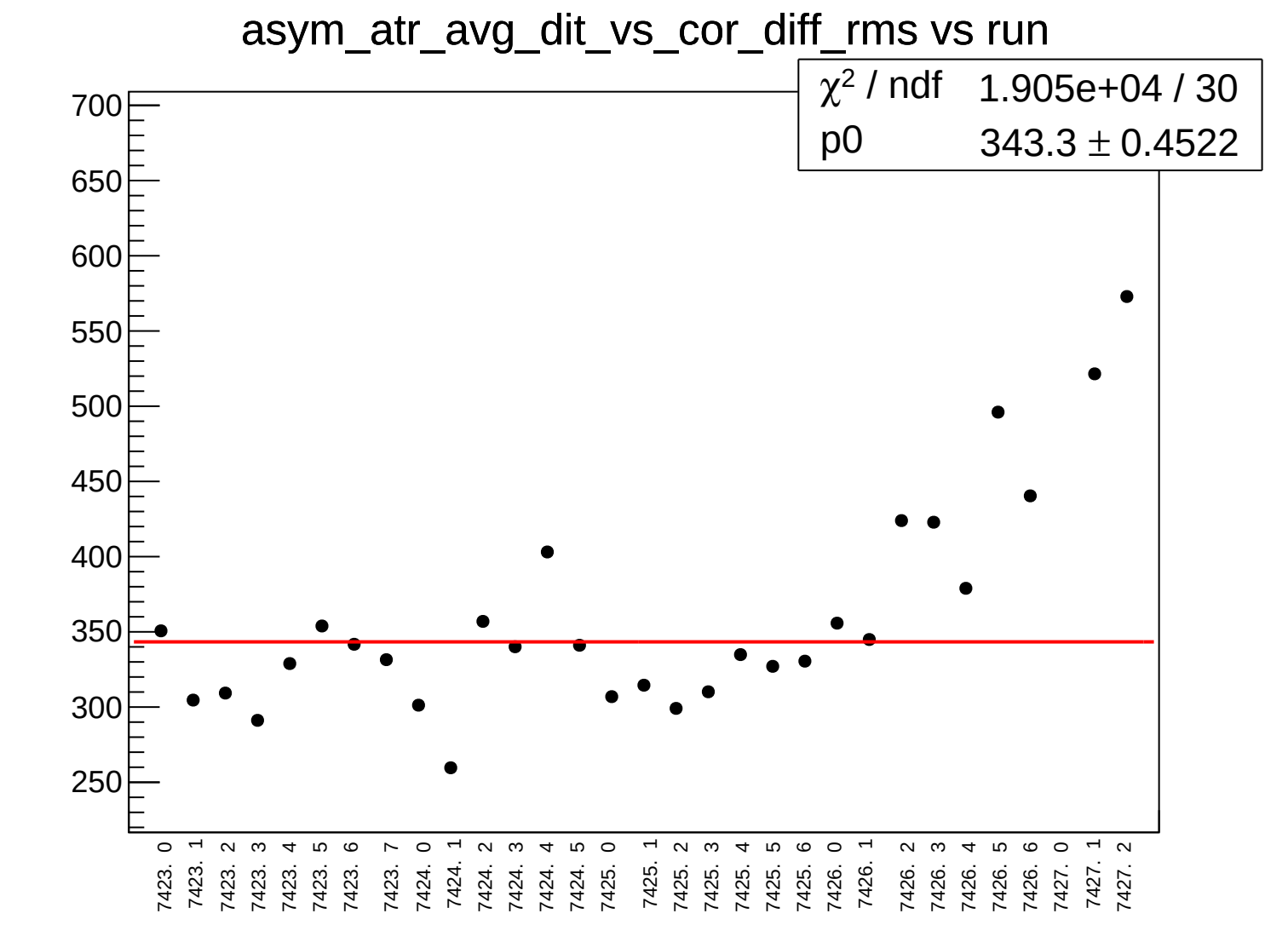

asym_atr_avg_rms vs run
χ² / ndf 1675 / 30
p0 4842 ± 6.284
5400
5200
5000
4800
4600
4400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

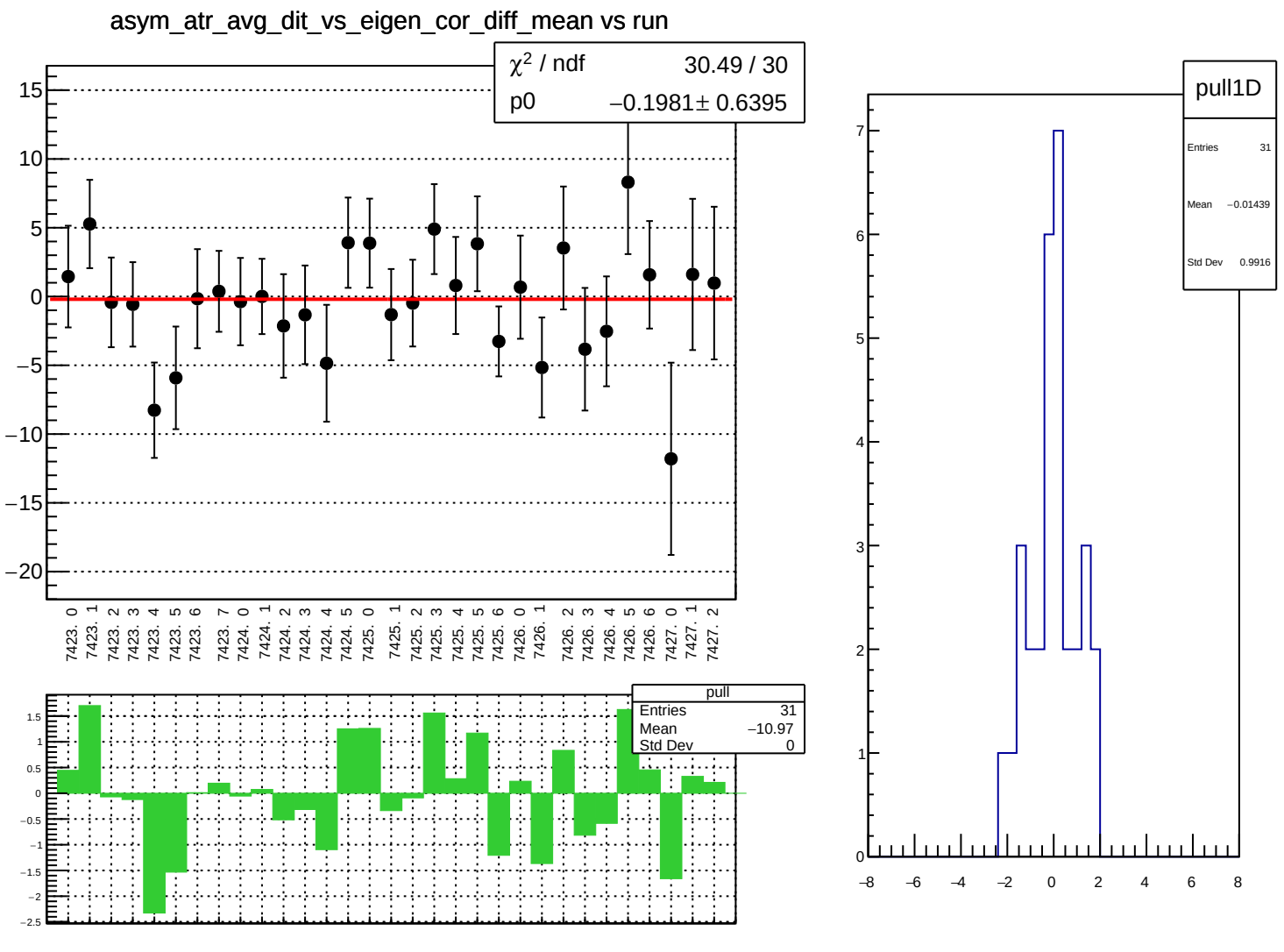

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 24.89 / 30
p0 8.978e−14 ± 1.947e−13
0.02
0.01
0
−0.01
−0.02
−0.03
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 36.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

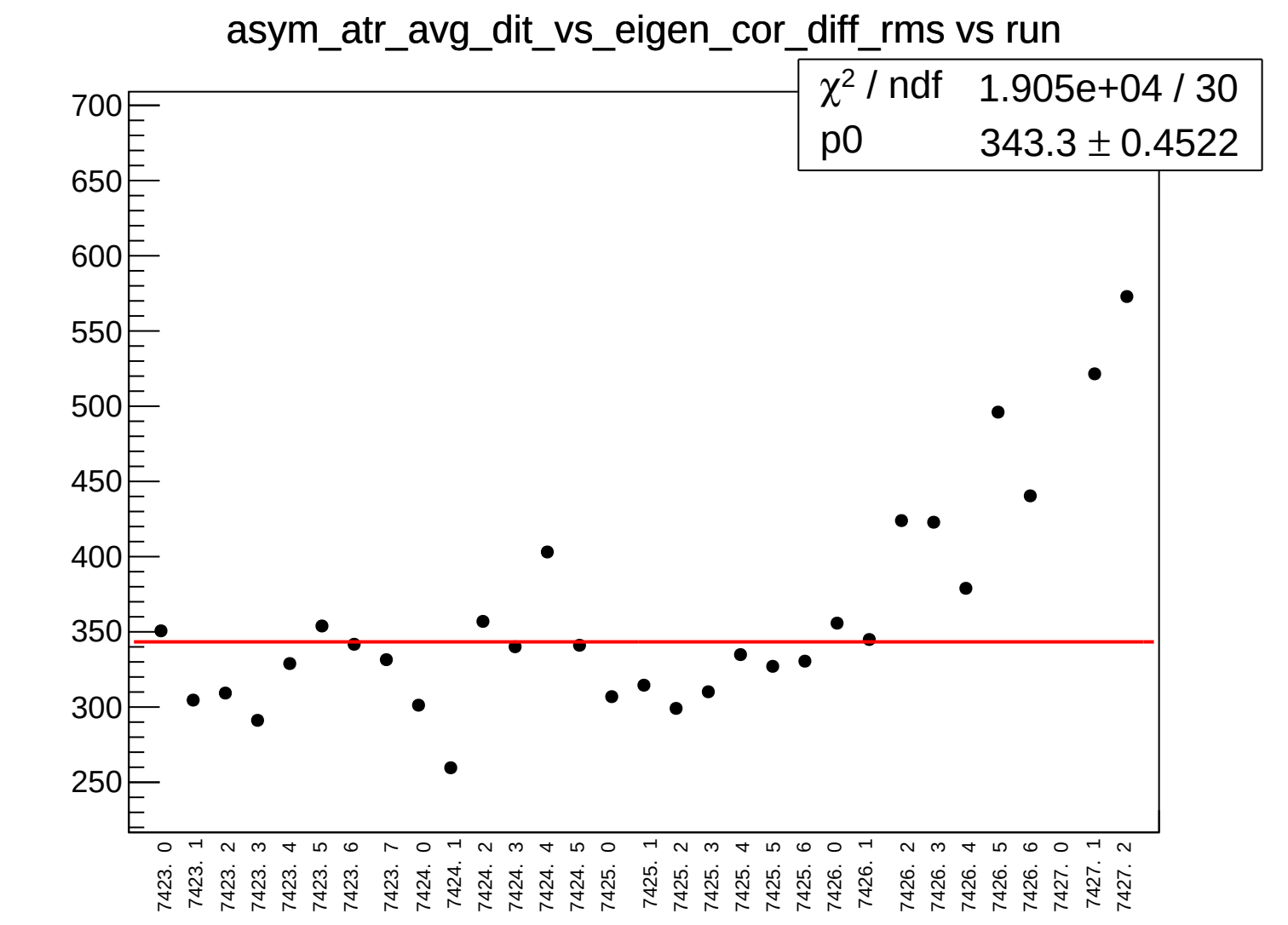

pull1D
Entries 31
Mean 0.1608
Std Dev 0.8815
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

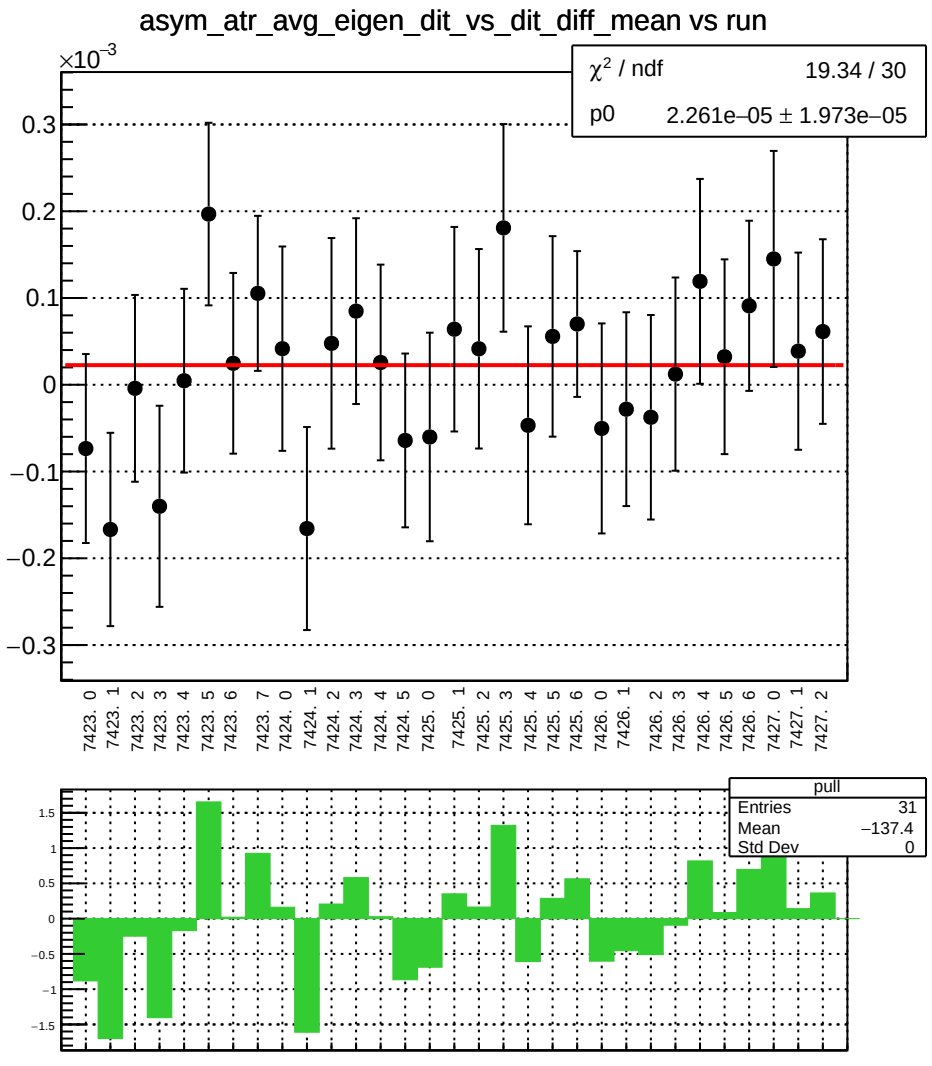

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.967e+05 / 30
p0 4.327e−11 ± 1.377e−13
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

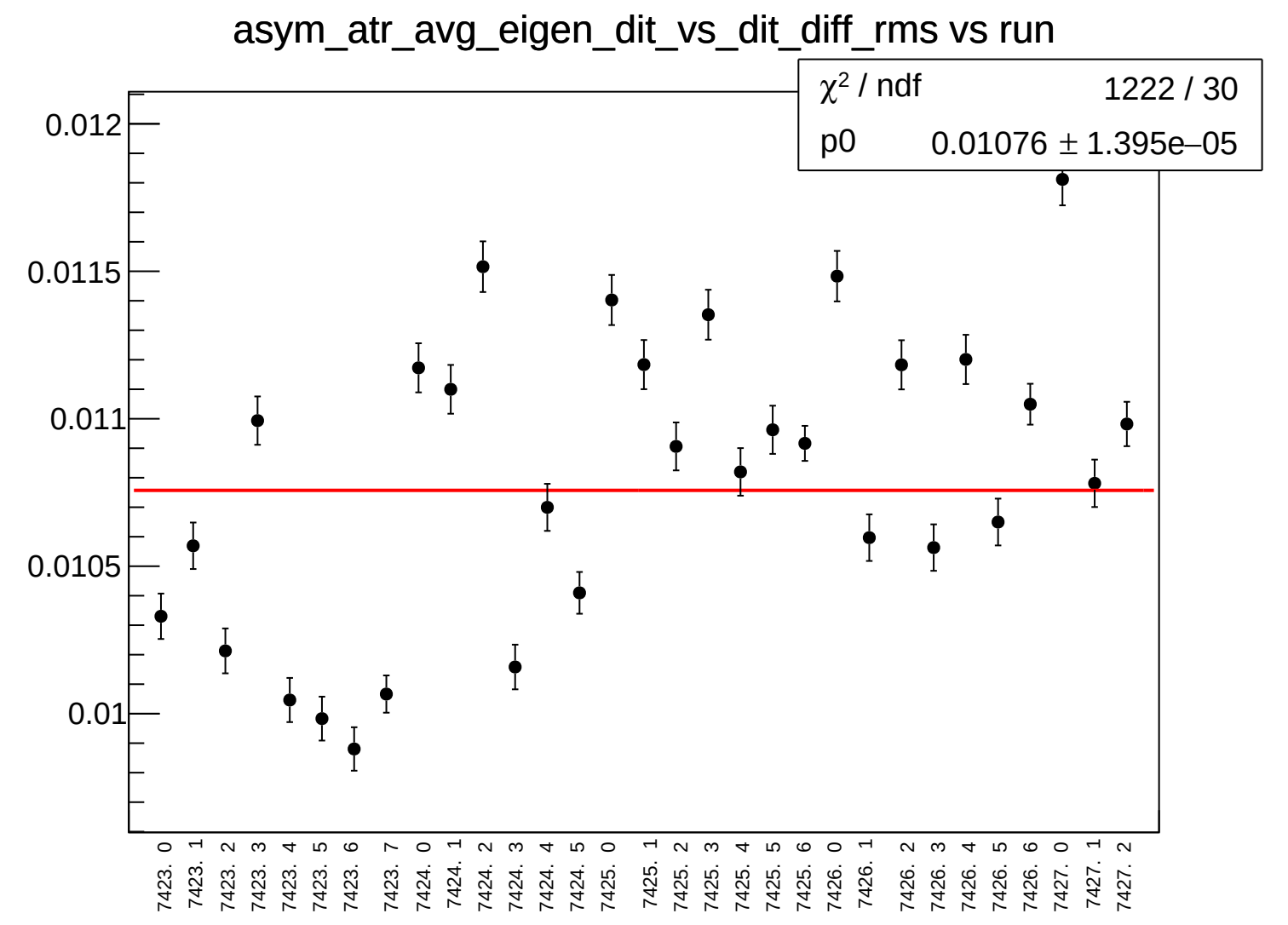

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 30.49 / 30
p0 −0.1981± 0.6395
pull
Entries 31
Mean −10.97
Std Dev 0
pull1D
Entries 31
Mean −0.01439
Std Dev 0.9916

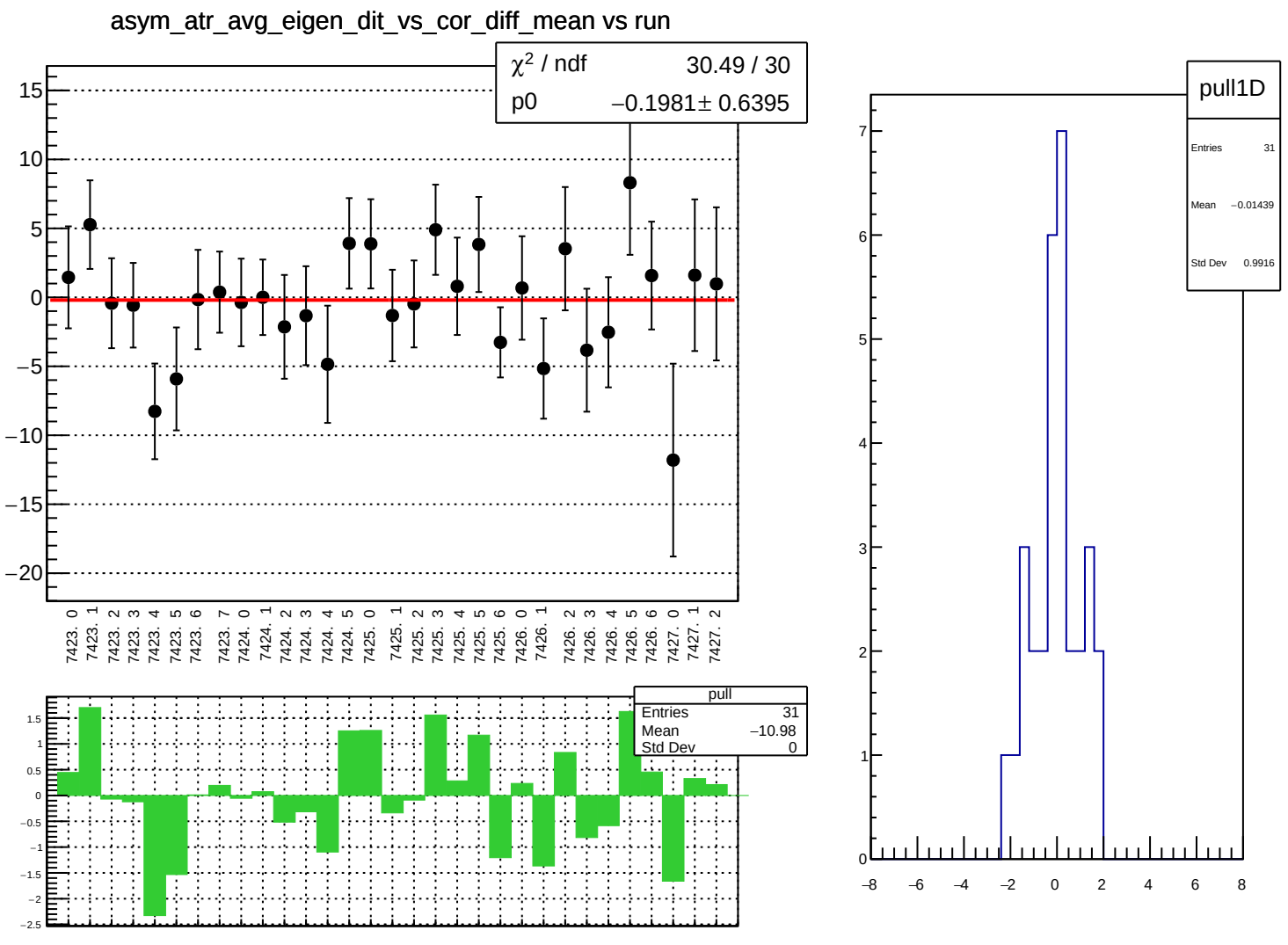

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.905e+04 / 30
p0 343.3 ± 0.4522
700
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

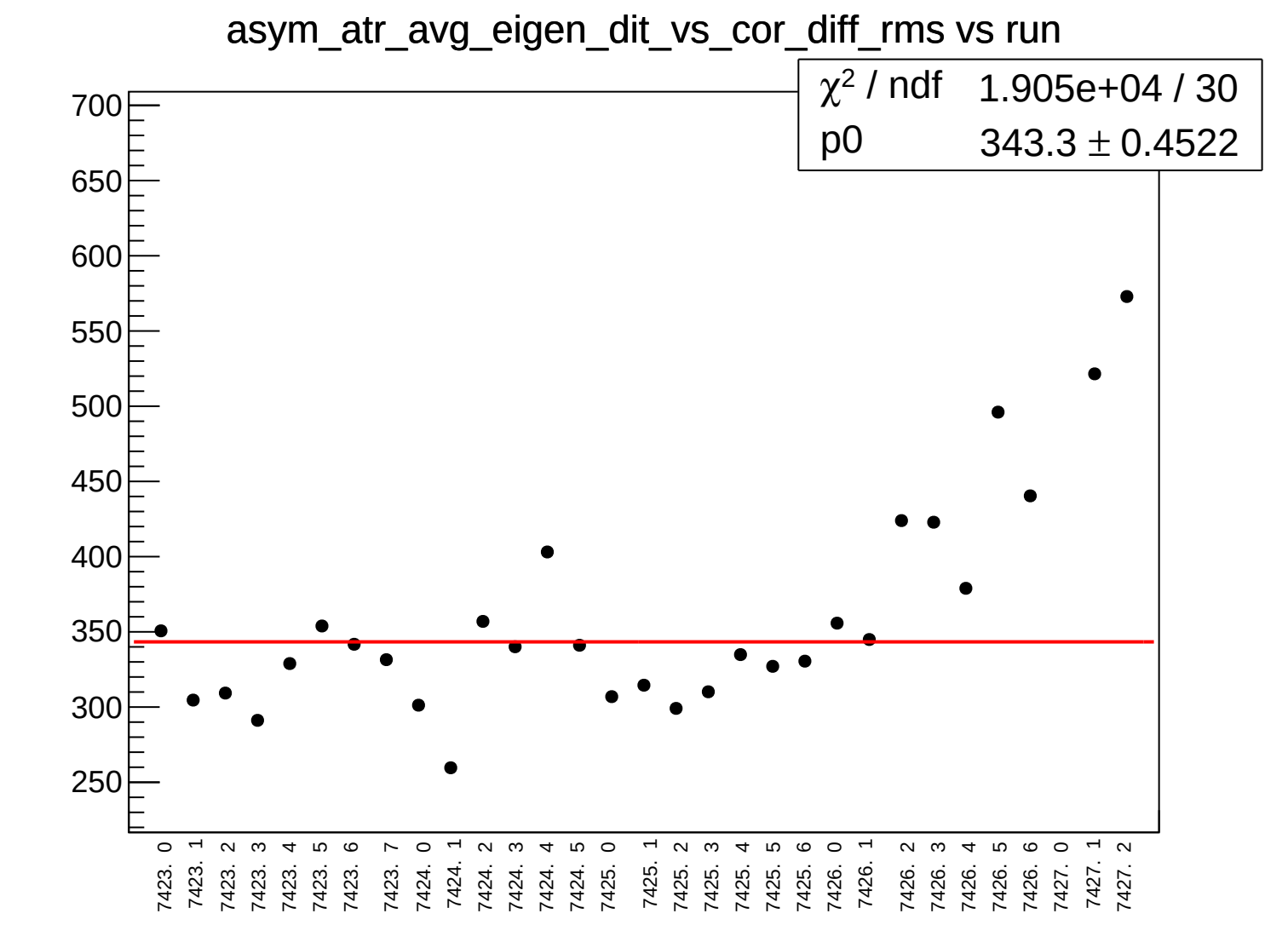

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.49 / 30
p0 −0.1981± 0.6395
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −10.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01439
Std Dev 0.9916
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

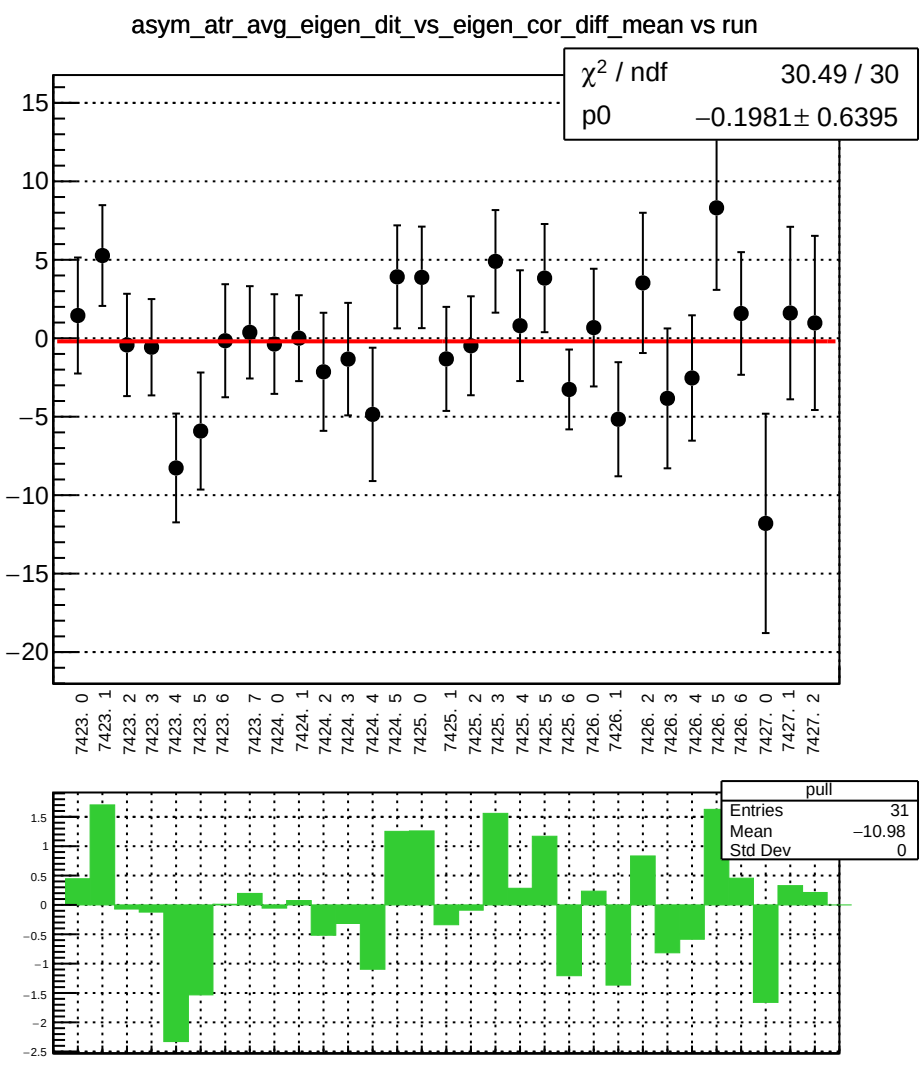

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.905e+04 / 30
p0 343.3 ± 0.4522
700
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

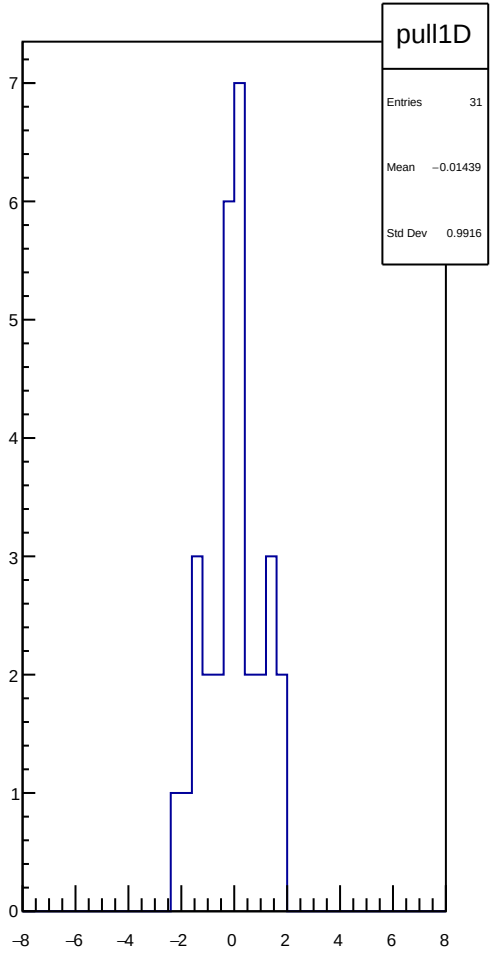

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.34 / 30
p0 2.261e−05 ± 1.973e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −137.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01547
Std Dev 0.7897
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

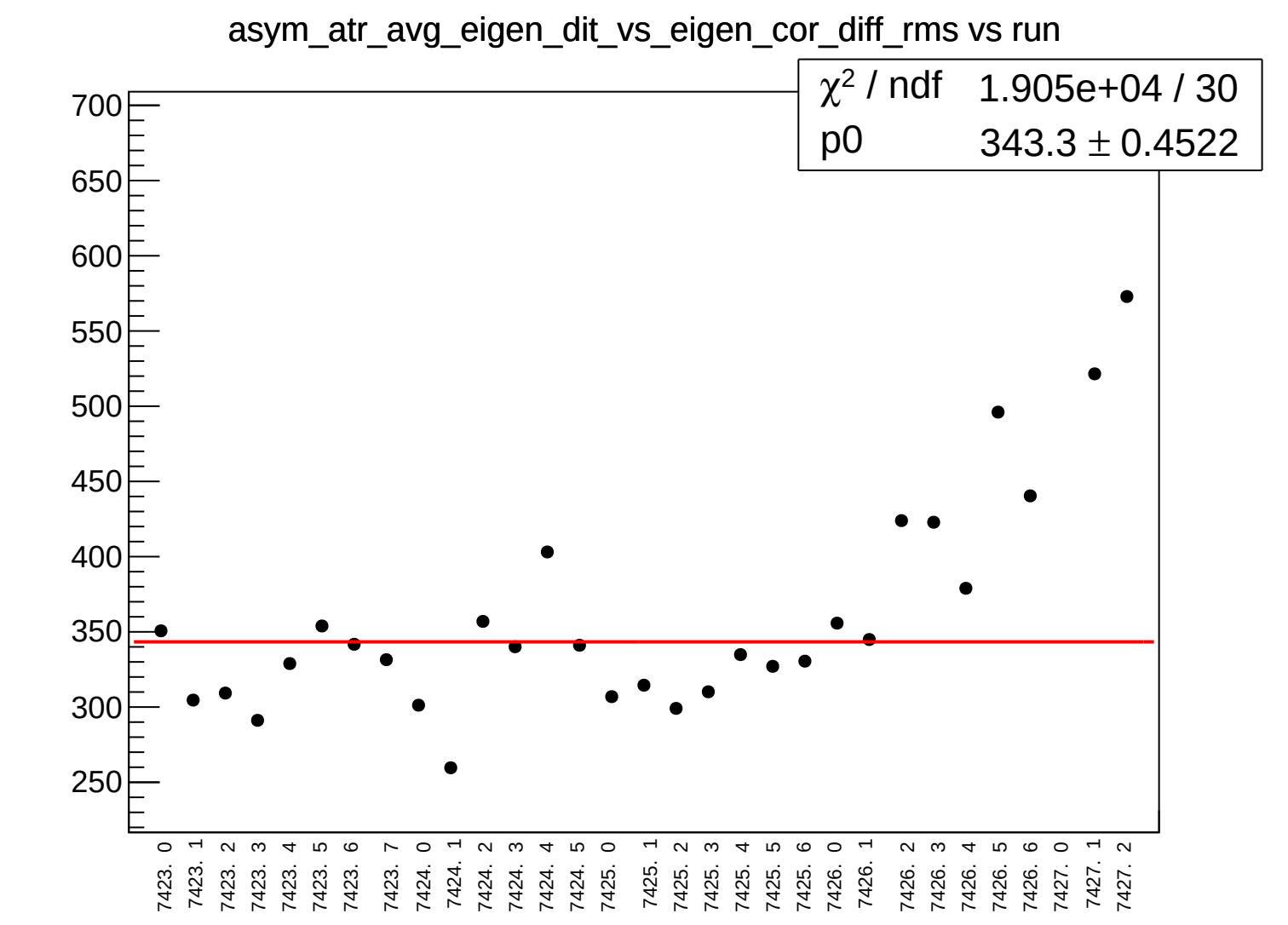

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1222 / 30
p0 0.01076 ± 1.395e−05
0.012
0.0115
0.011
0.0105
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

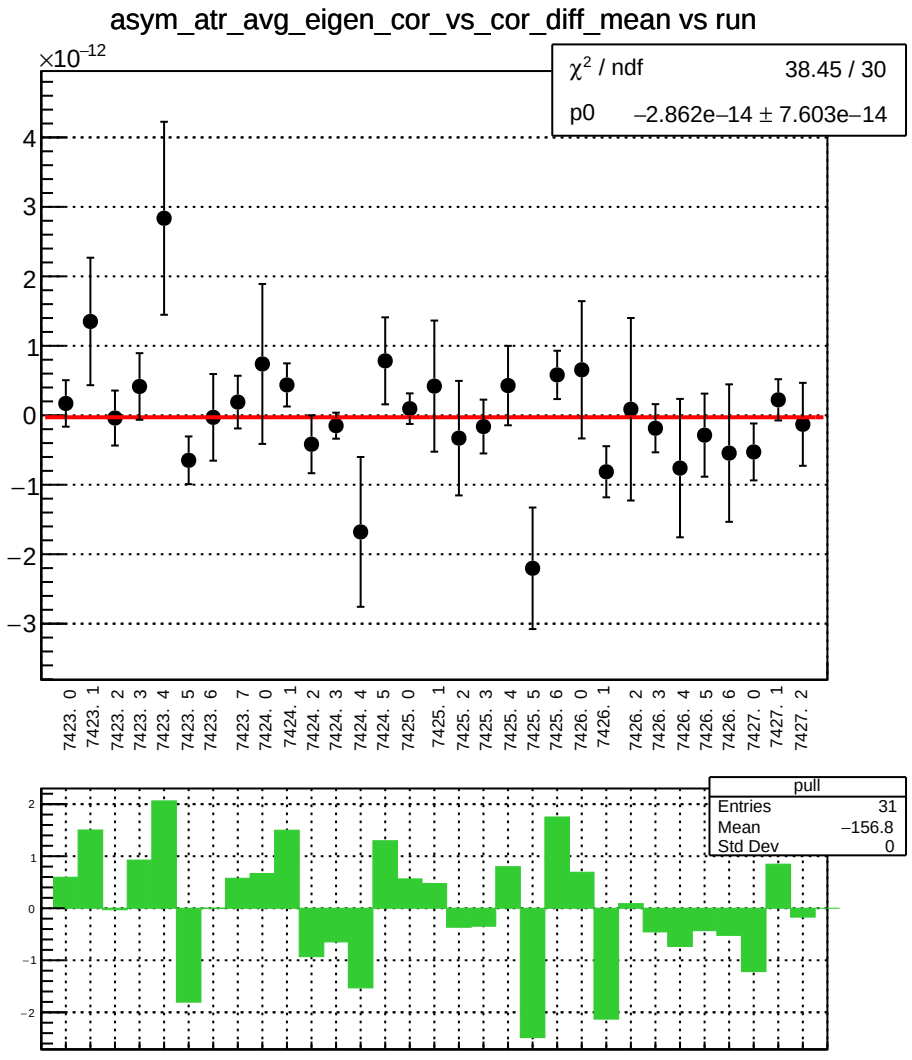

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.49 / 30
p0 −0.1981± 0.6395
pull
Entries 31
Mean −10.98
Std Dev 0
pull1D
Entries 31
Mean −0.01439
Std Dev 0.9916

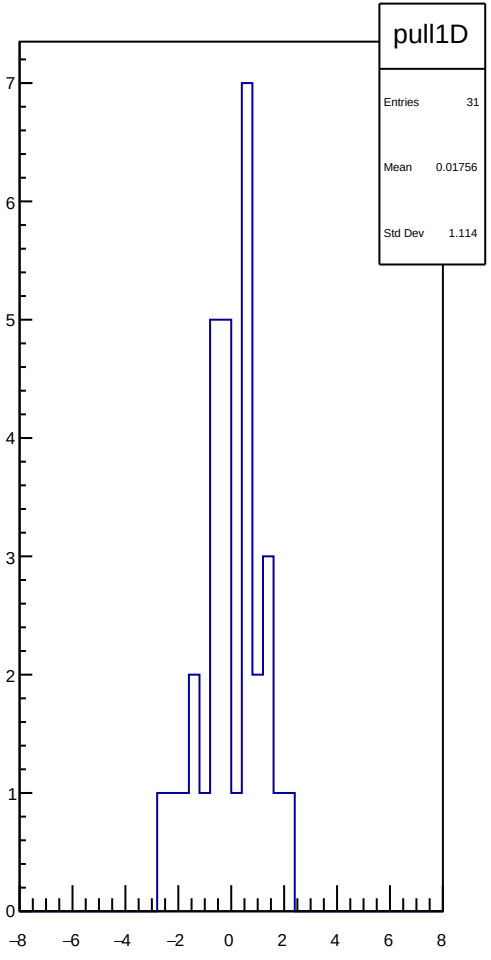

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.905e+04 / 30
p0 343.3 ± 0.4522
700
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

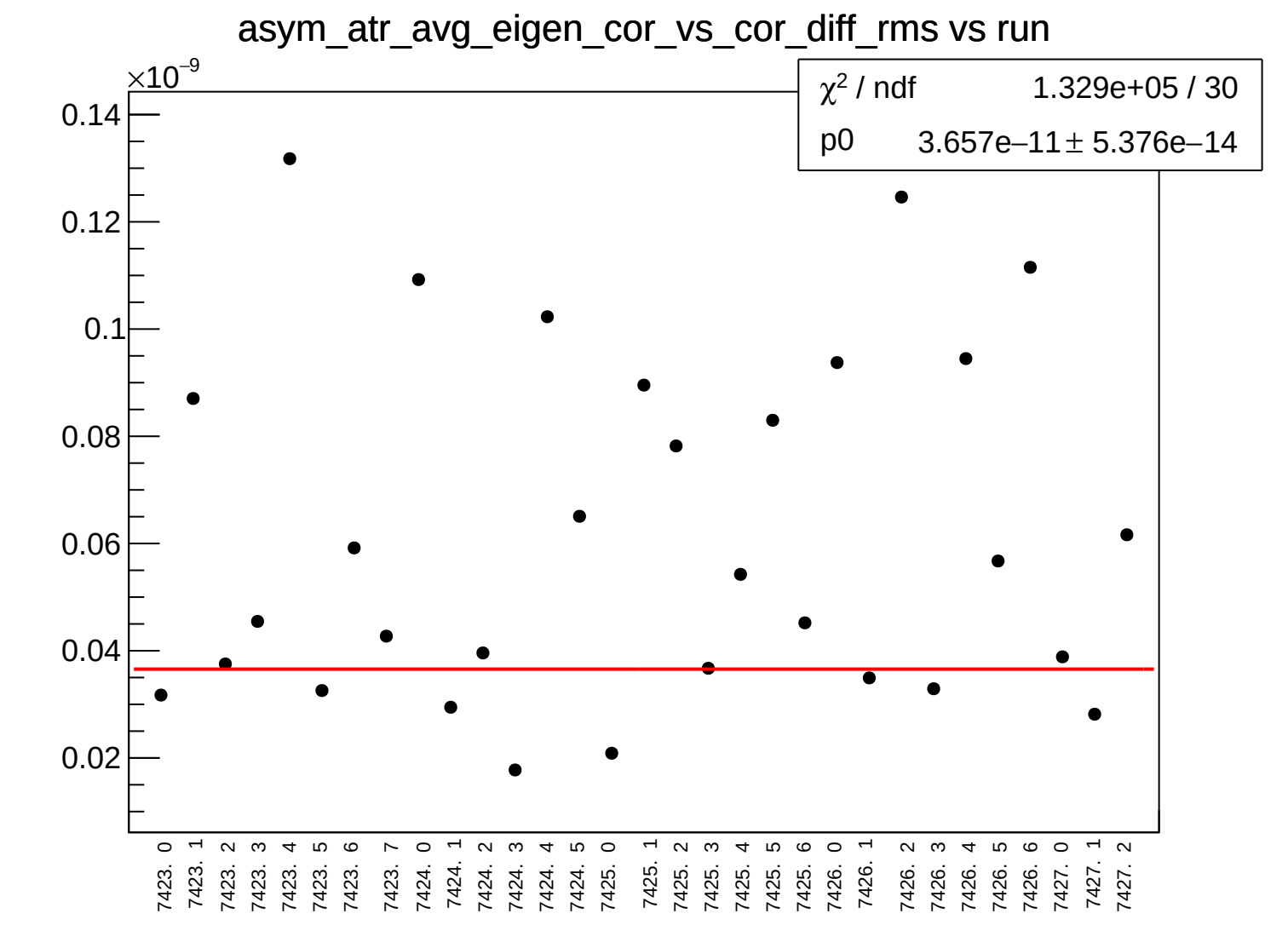

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.49 / 30
p0 −0.1981± 0.6395
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −10.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

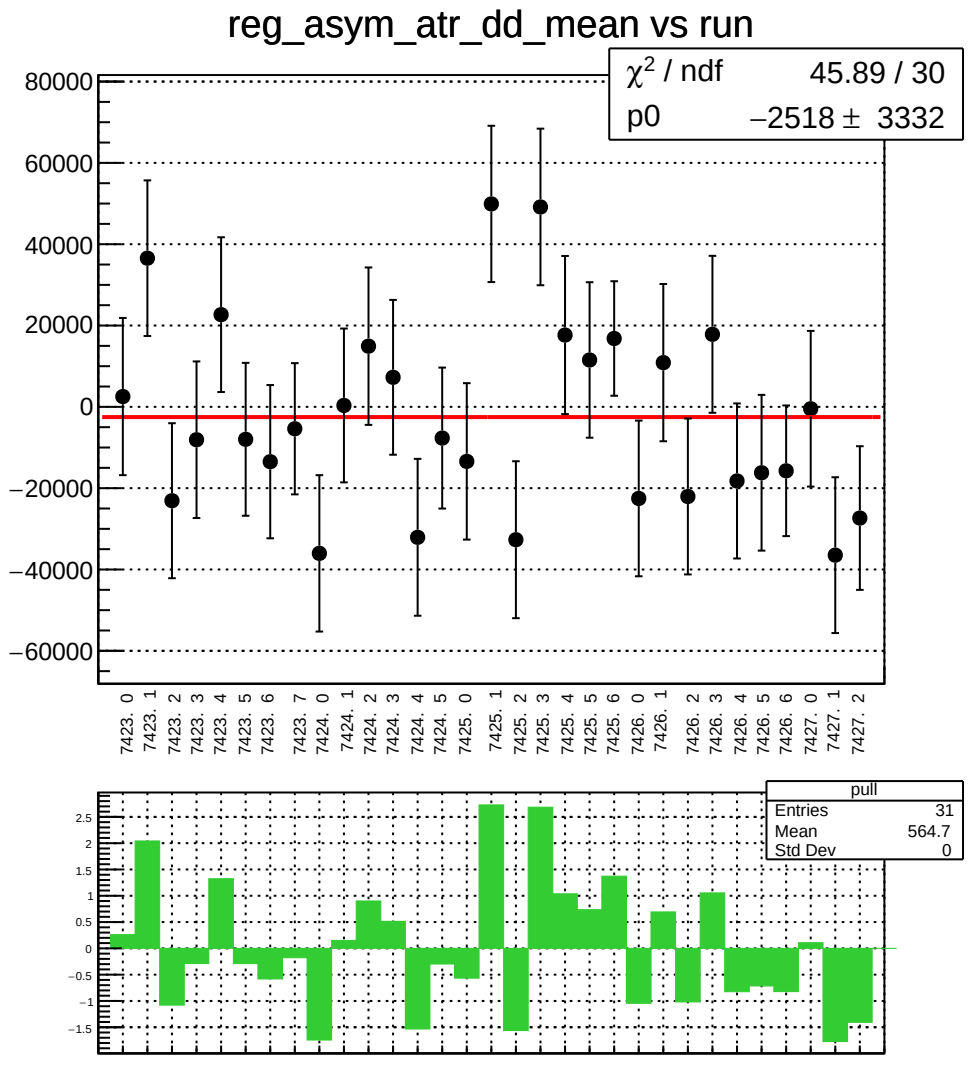

pull1D
Entries 31
Mean −0.01439
Std Dev 0.9916
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

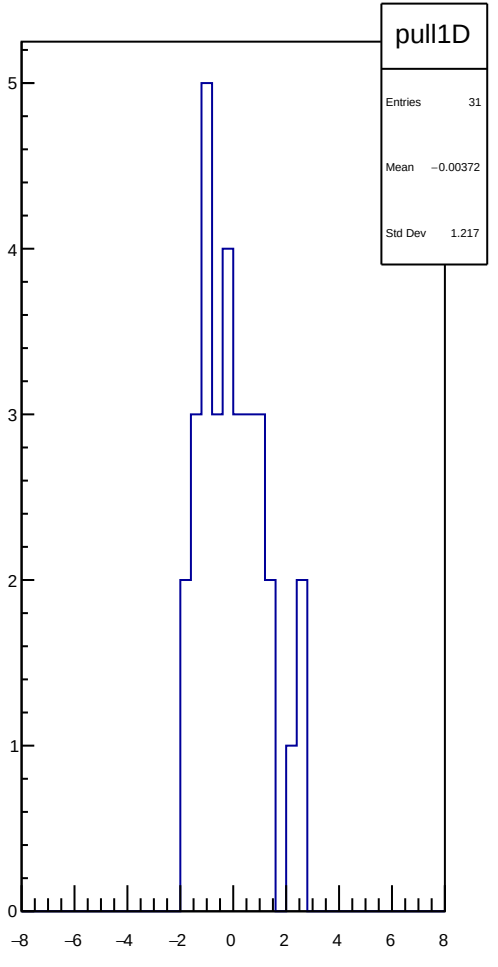

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.905e+04 / 30
p0 343.3 ± 0.4522
700
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

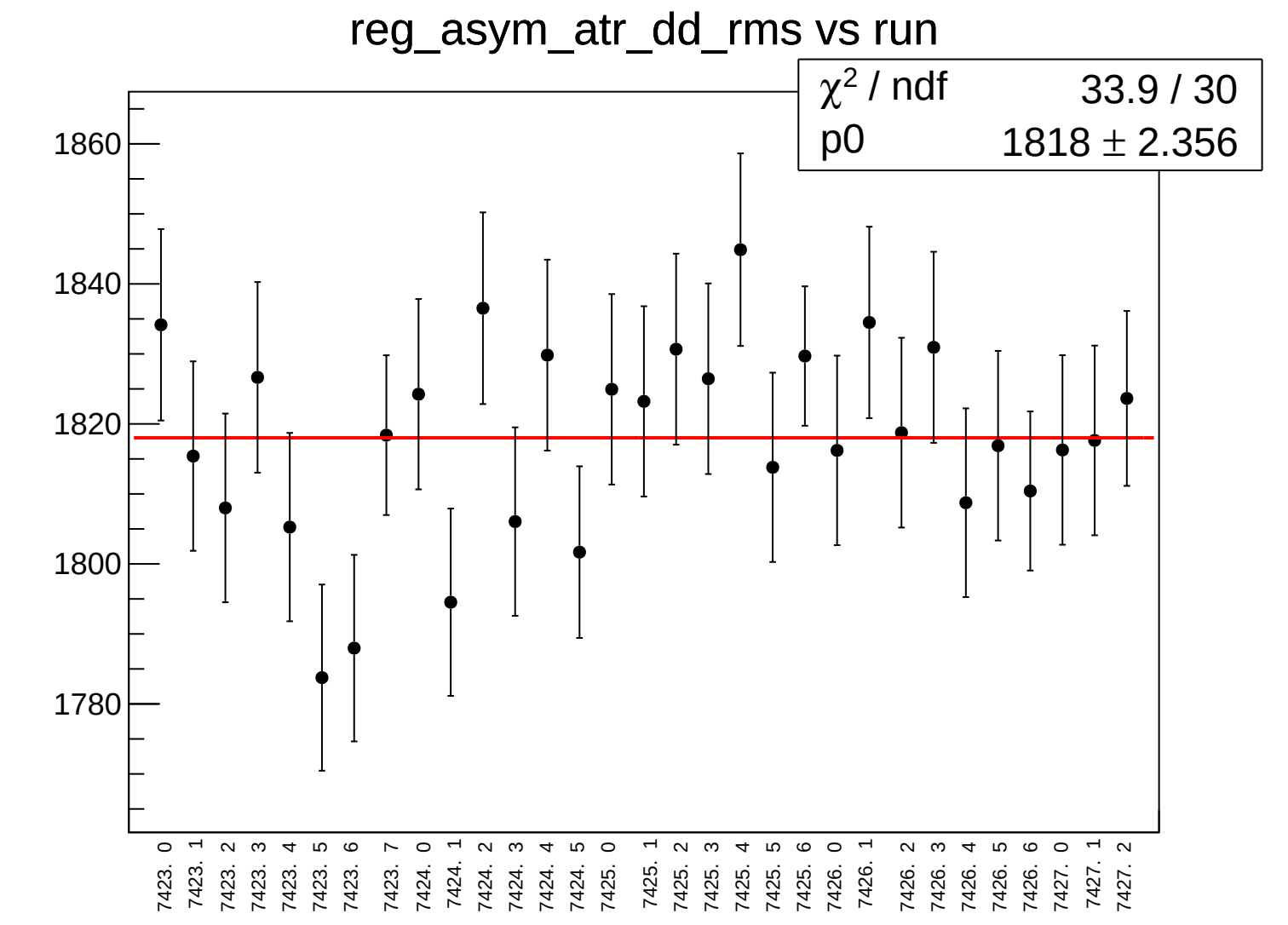

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.45 / 30
p0 −2.862e−14 ± 7.603e−14
4
3
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −156.8
Std Dev 0
2
1
0
−1
−2

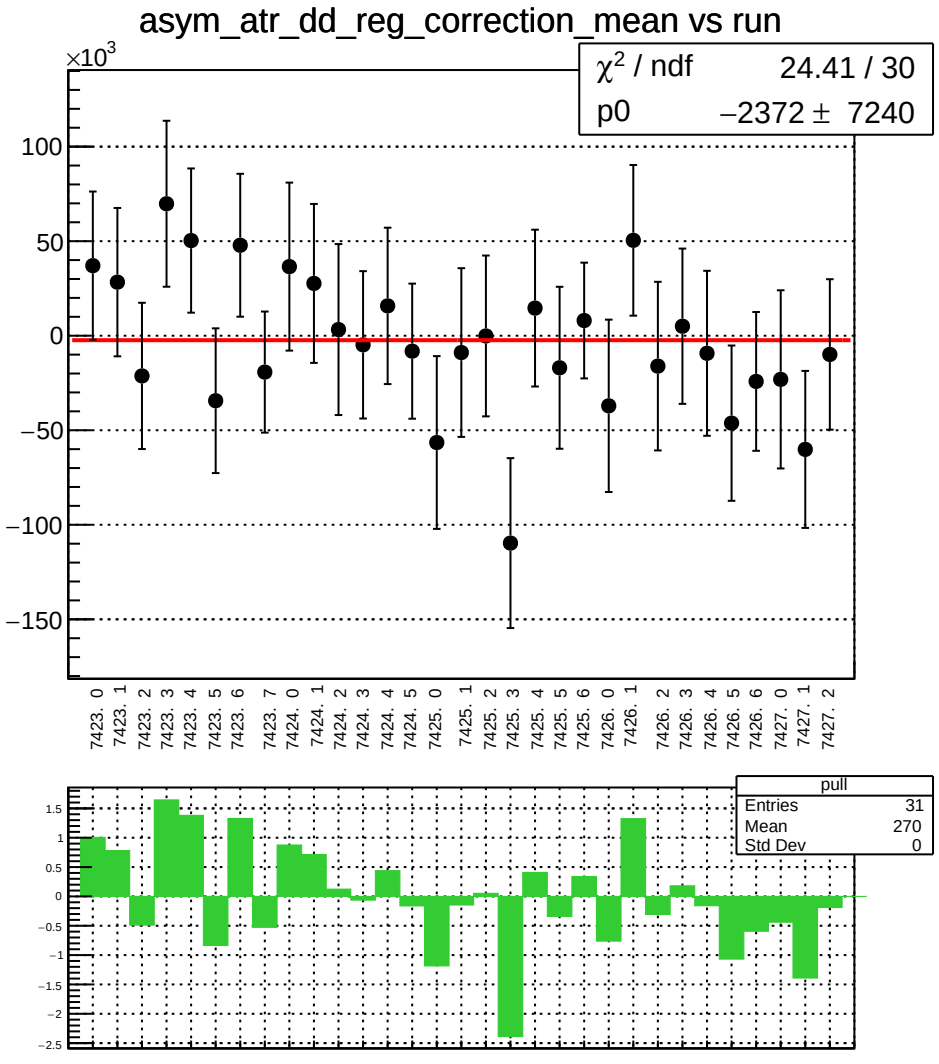

pull1D
Entries 31
Mean 0.01756
Std Dev 1.114
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

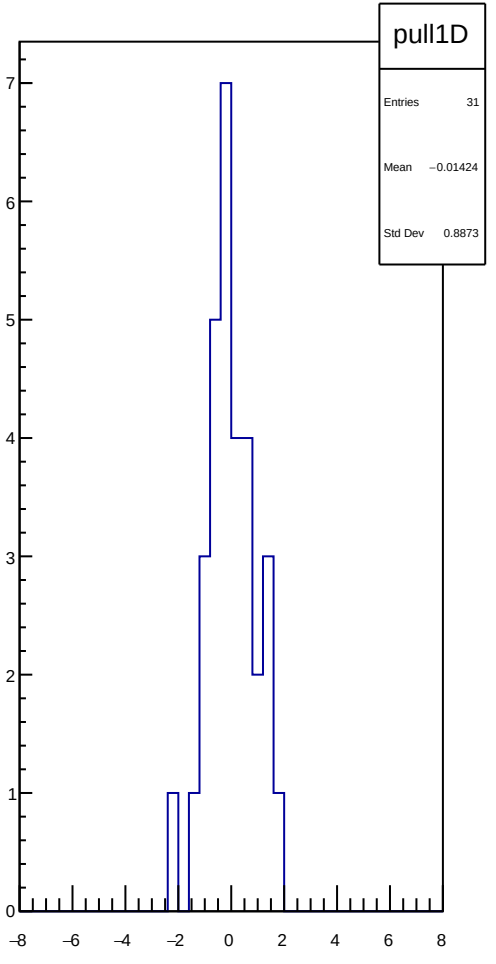

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.329e+05 / 30
p0 3.657e−11 ± 5.376e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

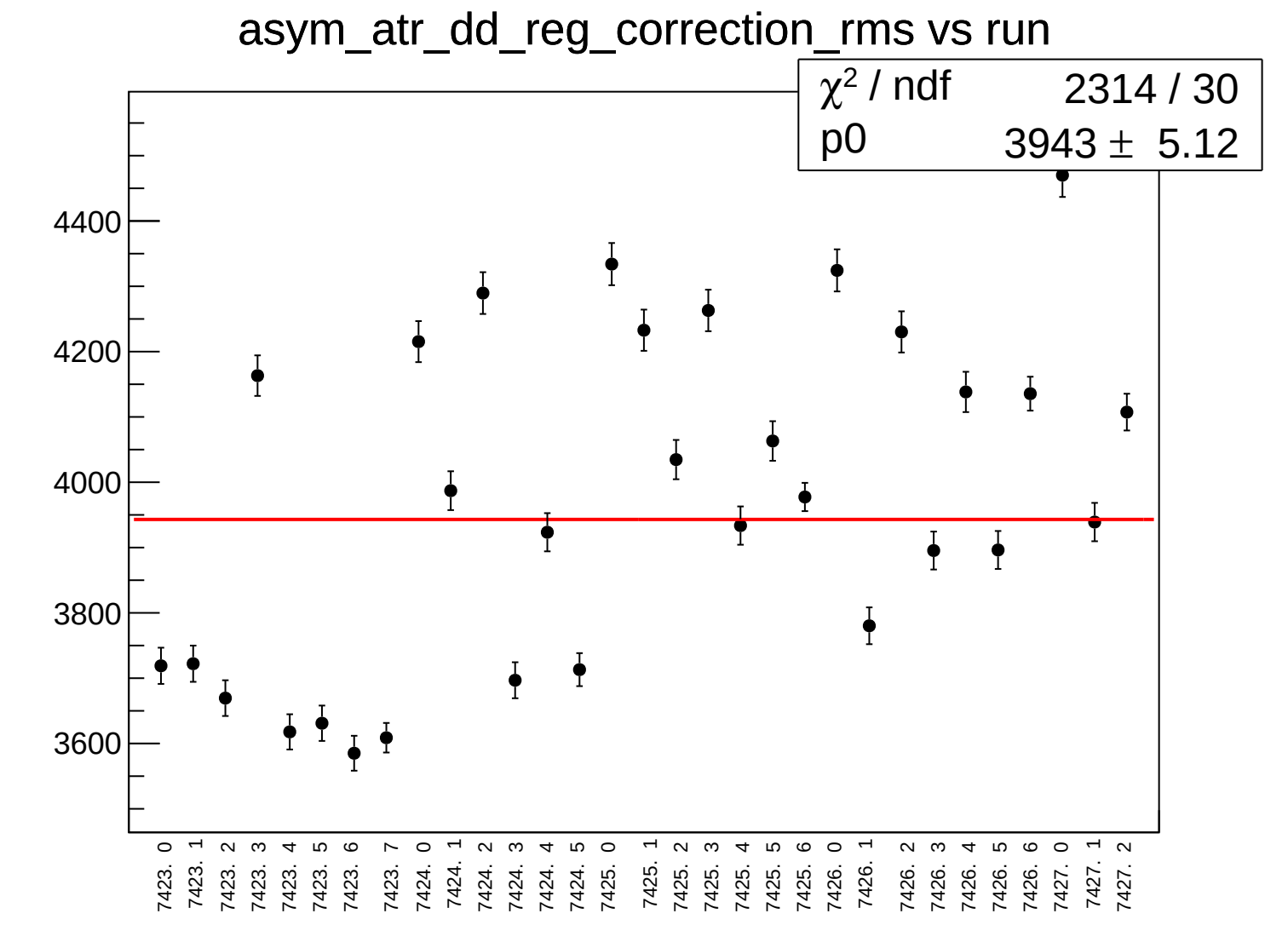

reg_asym_atr_dd_mean vs run
χ² / ndf 45.89 / 30
p0 −2518 ± 3332
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 564.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

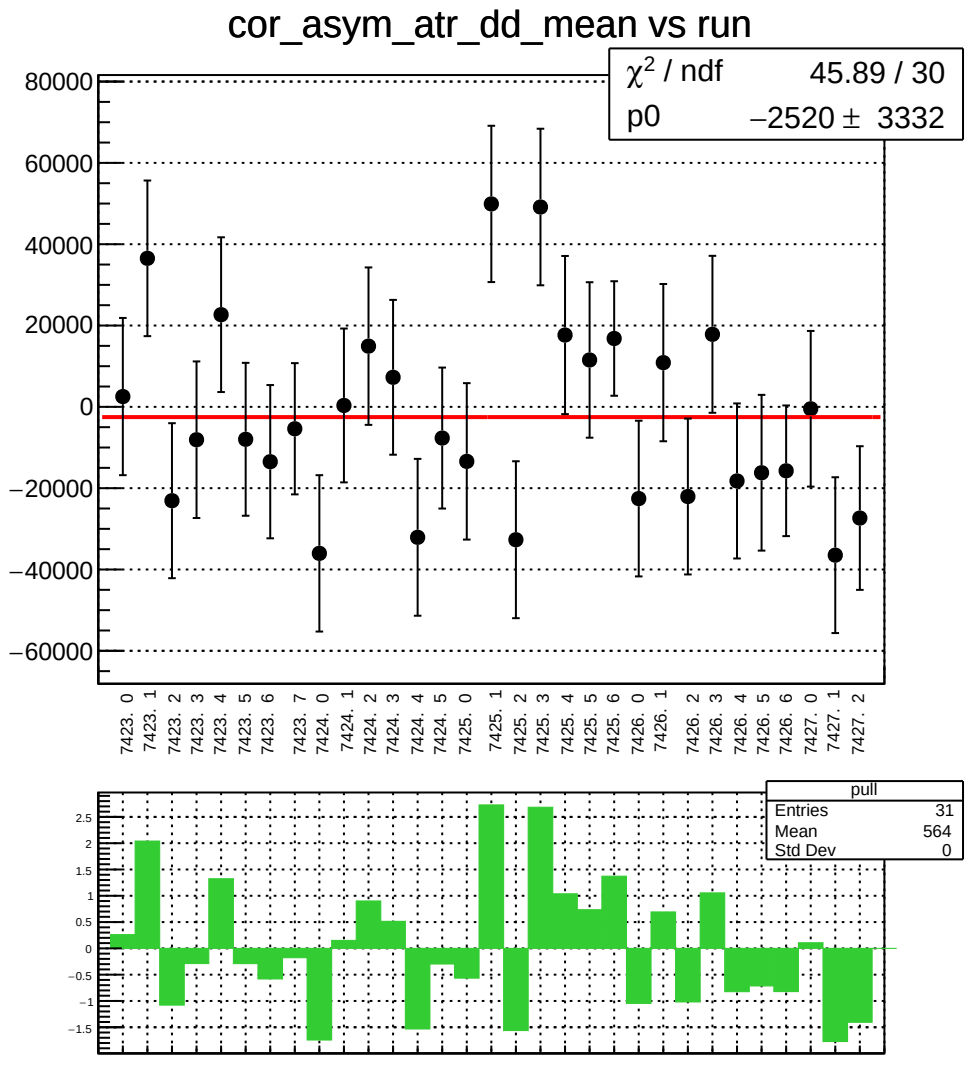

pull1D
Entries 31
Mean −0.00372
Std Dev 1.217
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

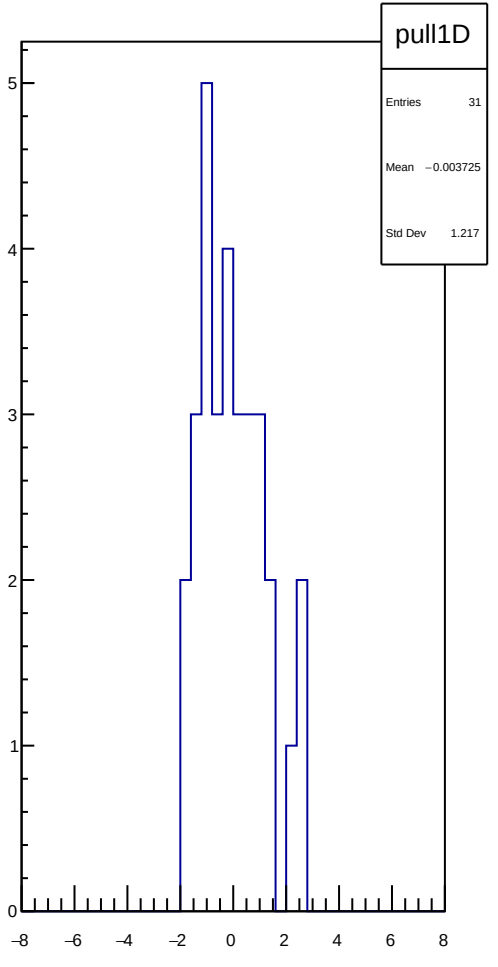

reg_asym_atr_dd_rms vs run
χ² / ndf 33.9 / 30
p0 1818 ± 2.356
1860
1840
1820
1800
1780
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

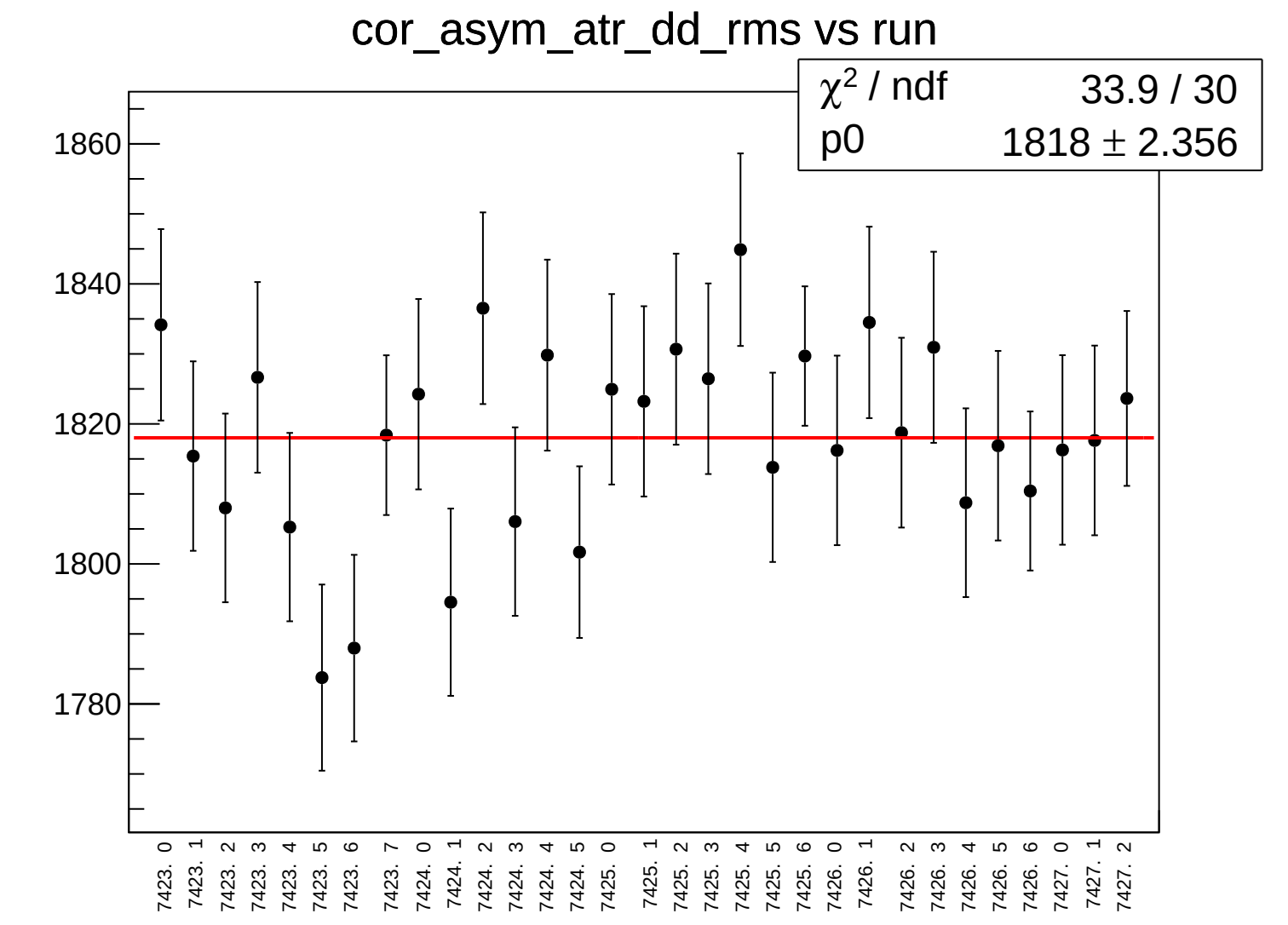

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 24.41 / 30
p0 −2372 ± 7240
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 270
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

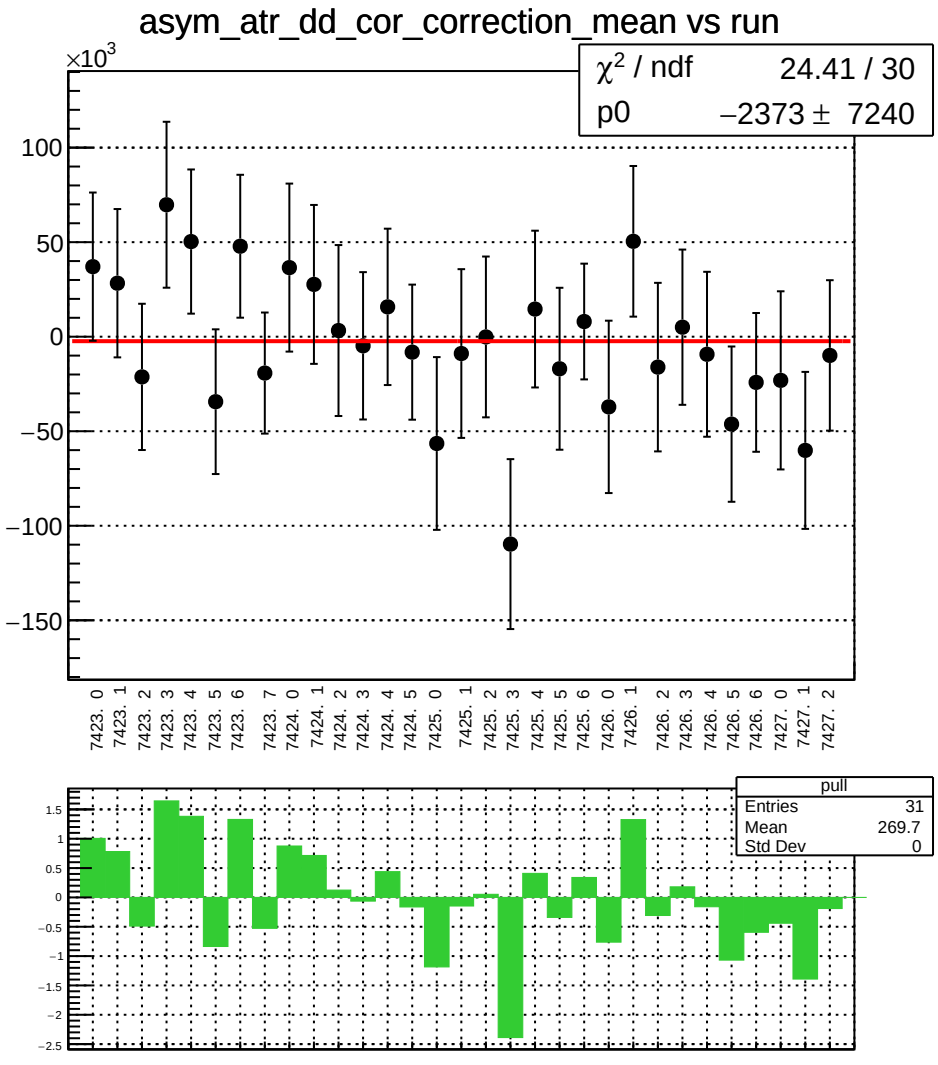

pull1D
Entries 31
Mean −0.01424
Std Dev 0.8873
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

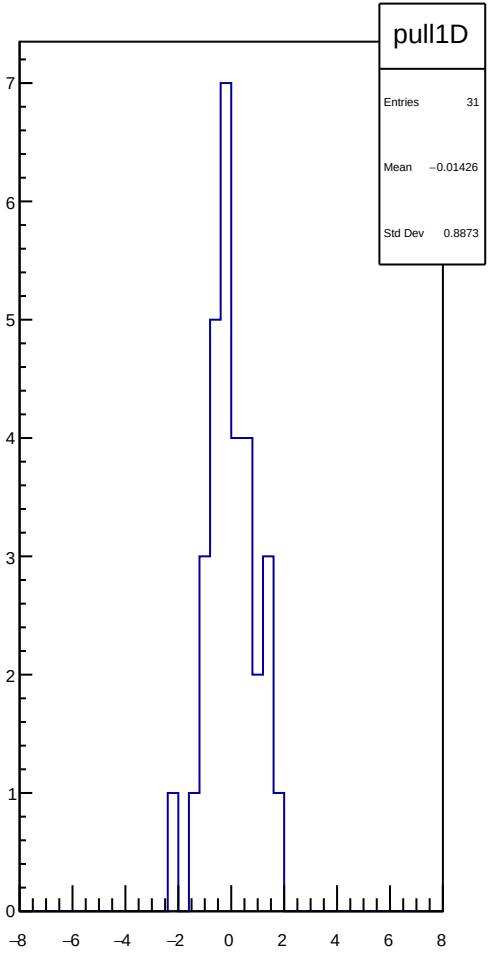

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 2314 / 30
p0 3943 ± 5.12
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

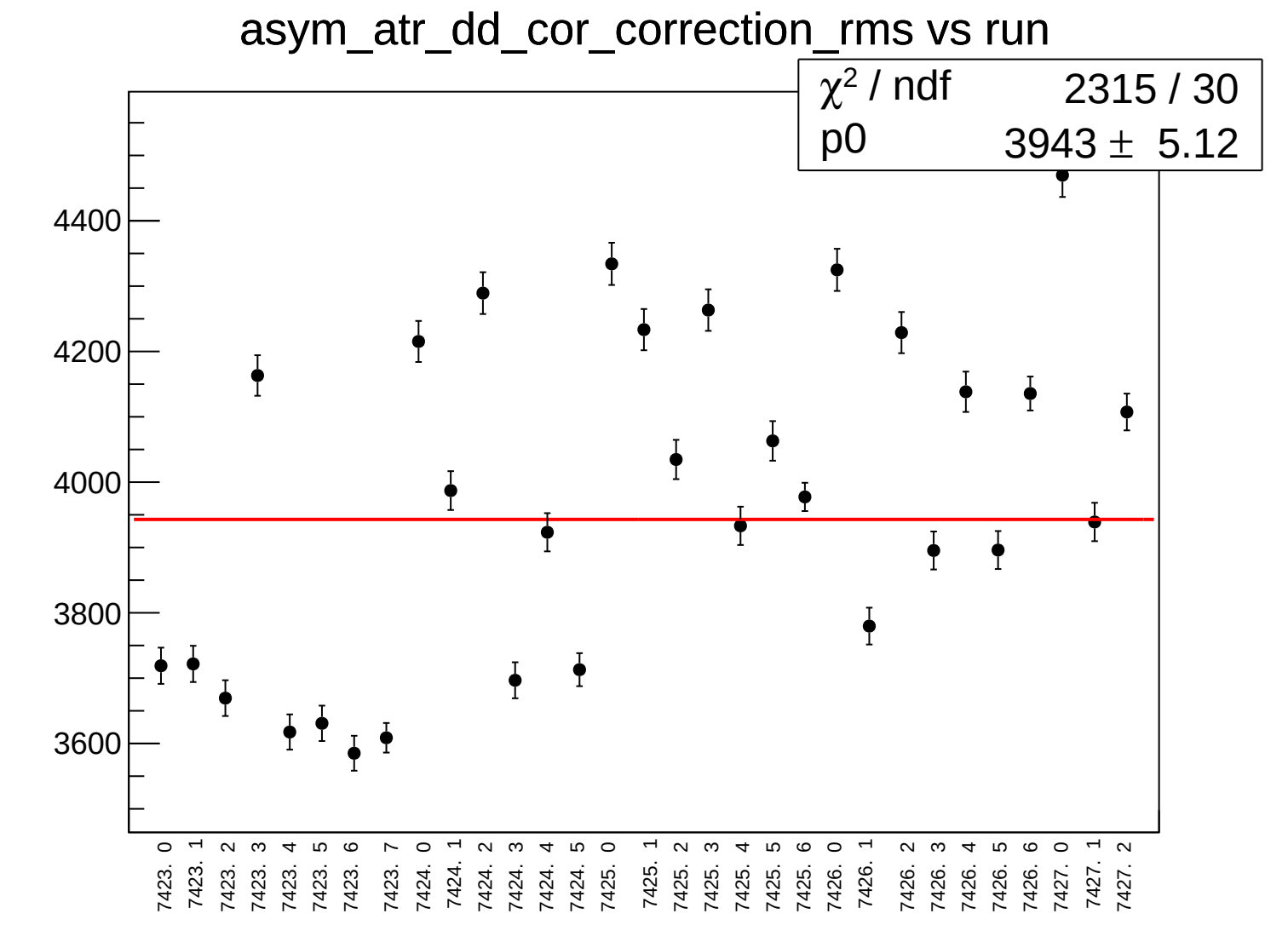

cor_asym_atr_dd_mean vs run
χ² / ndf 45.89 / 30
p0 −2520 ± 3332
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 564
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

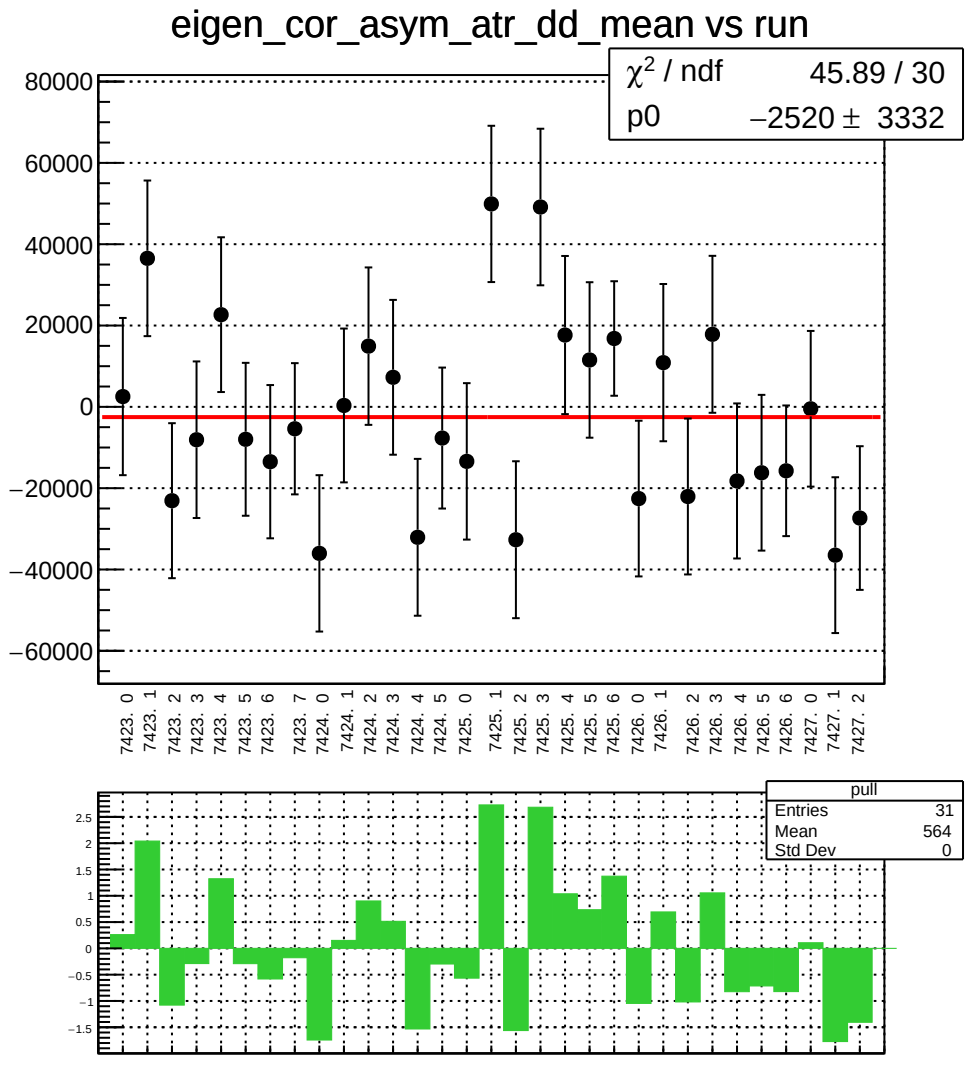

pull1D
Entries 31
Mean −0.003725
Std Dev 1.217
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

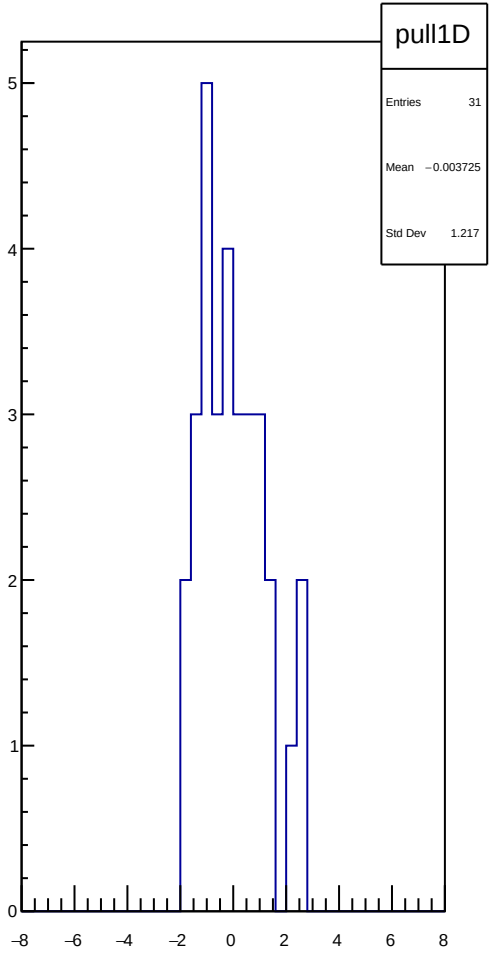

cor_asym_atr_dd_rms vs run
χ² / ndf 33.9 / 30
p0 1818 ± 2.356
1860
1840
1820
1800
1780
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

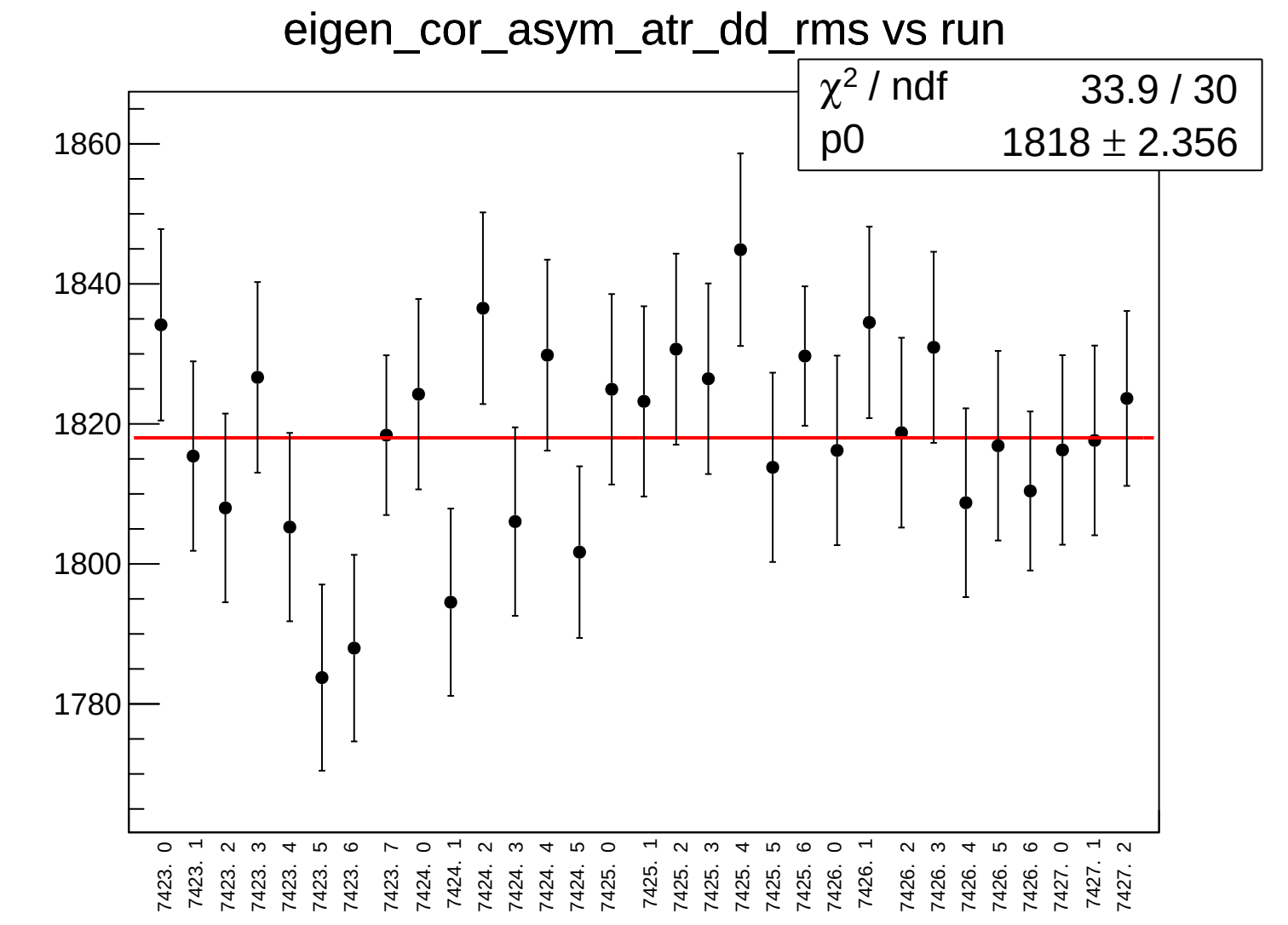

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 24.41 / 30
p0 −2373 ± 7240
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 269.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

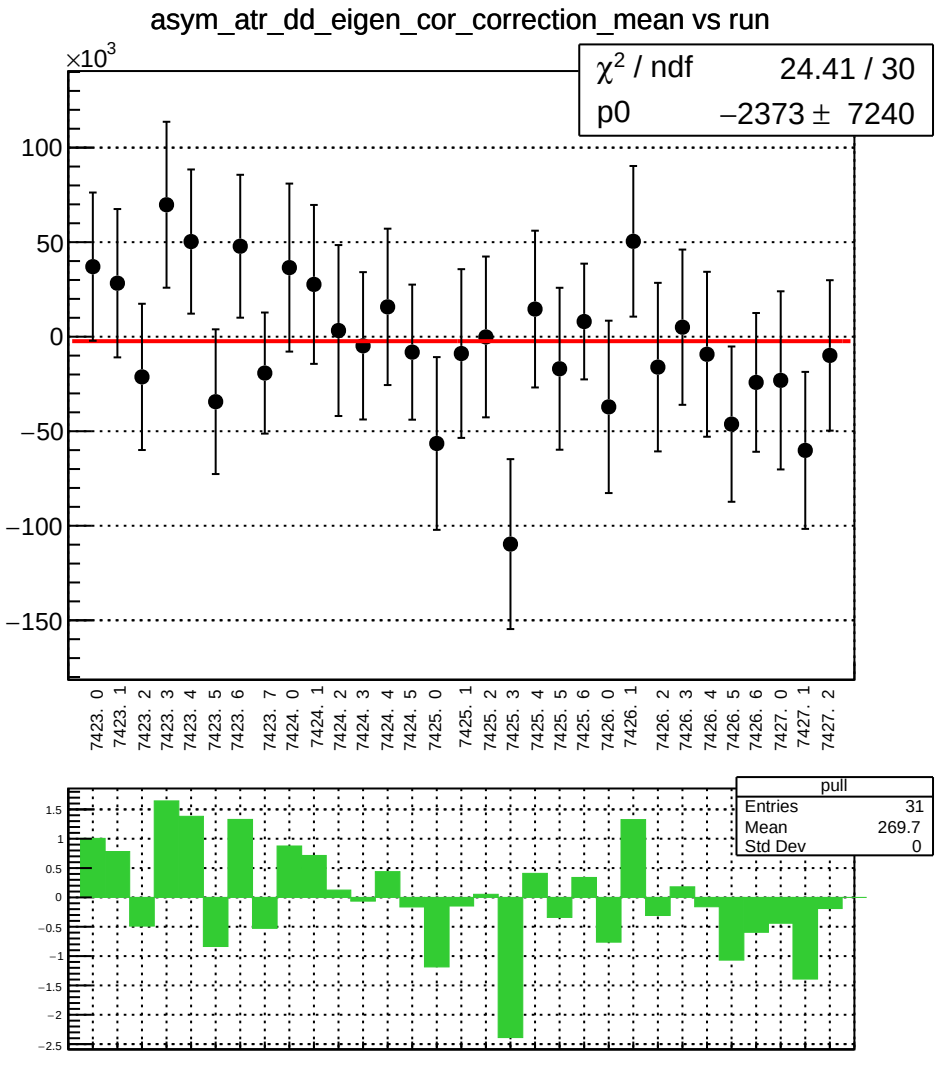

pull1D
Entries 31
Mean −0.01426
Std Dev 0.8873
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

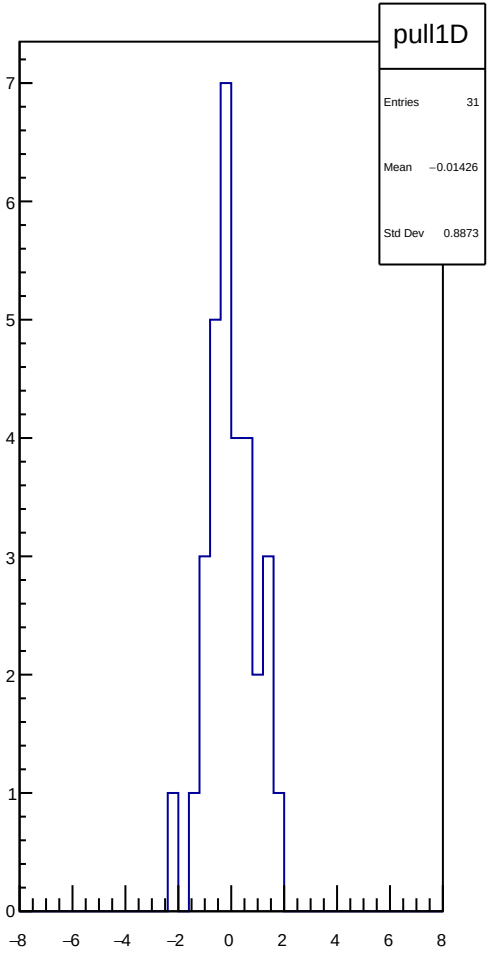

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 2315 / 30
p0 3943 ± 5.12
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

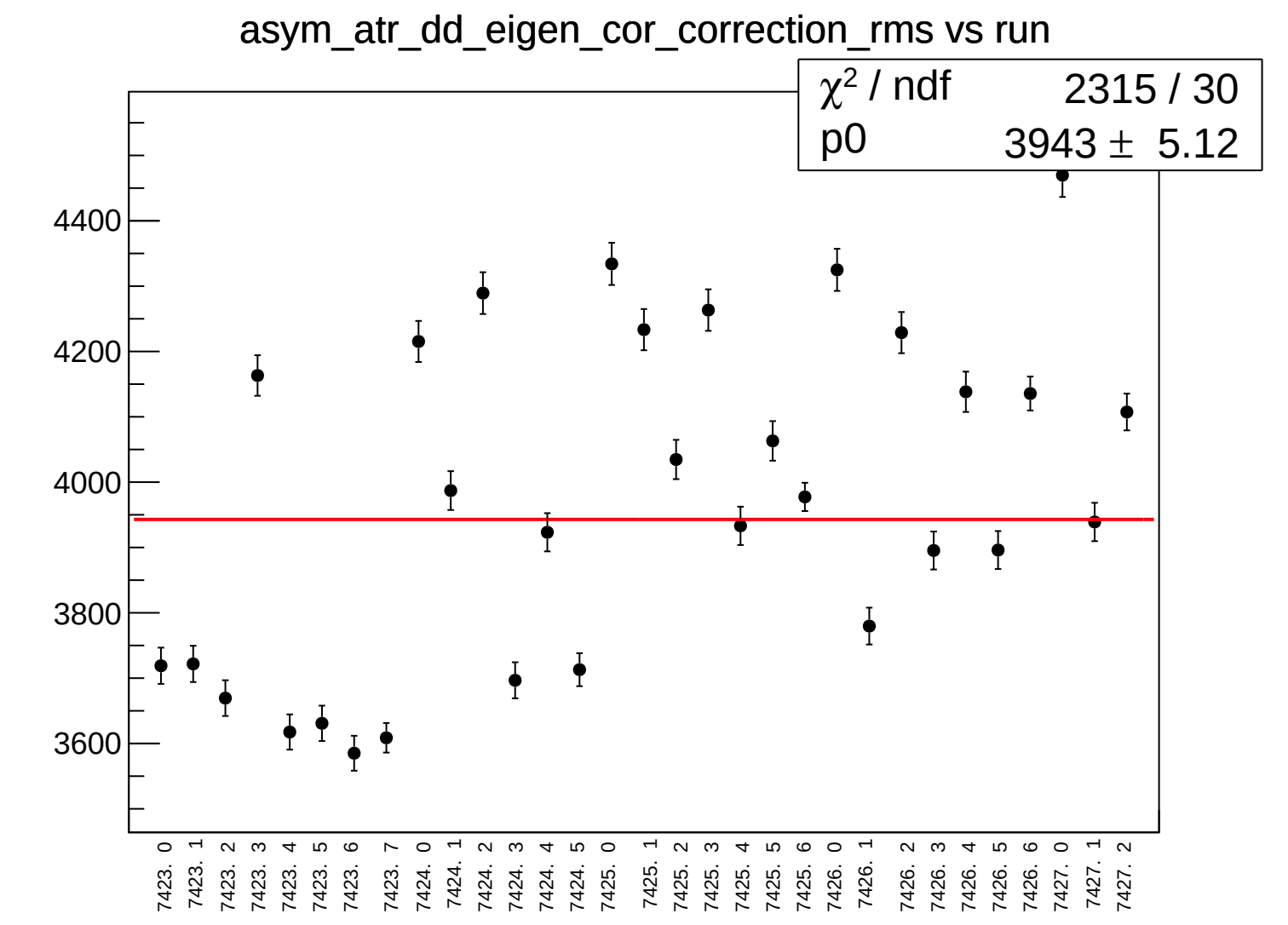

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 45.89 / 30
p0 −2520 ± 3332
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 564
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

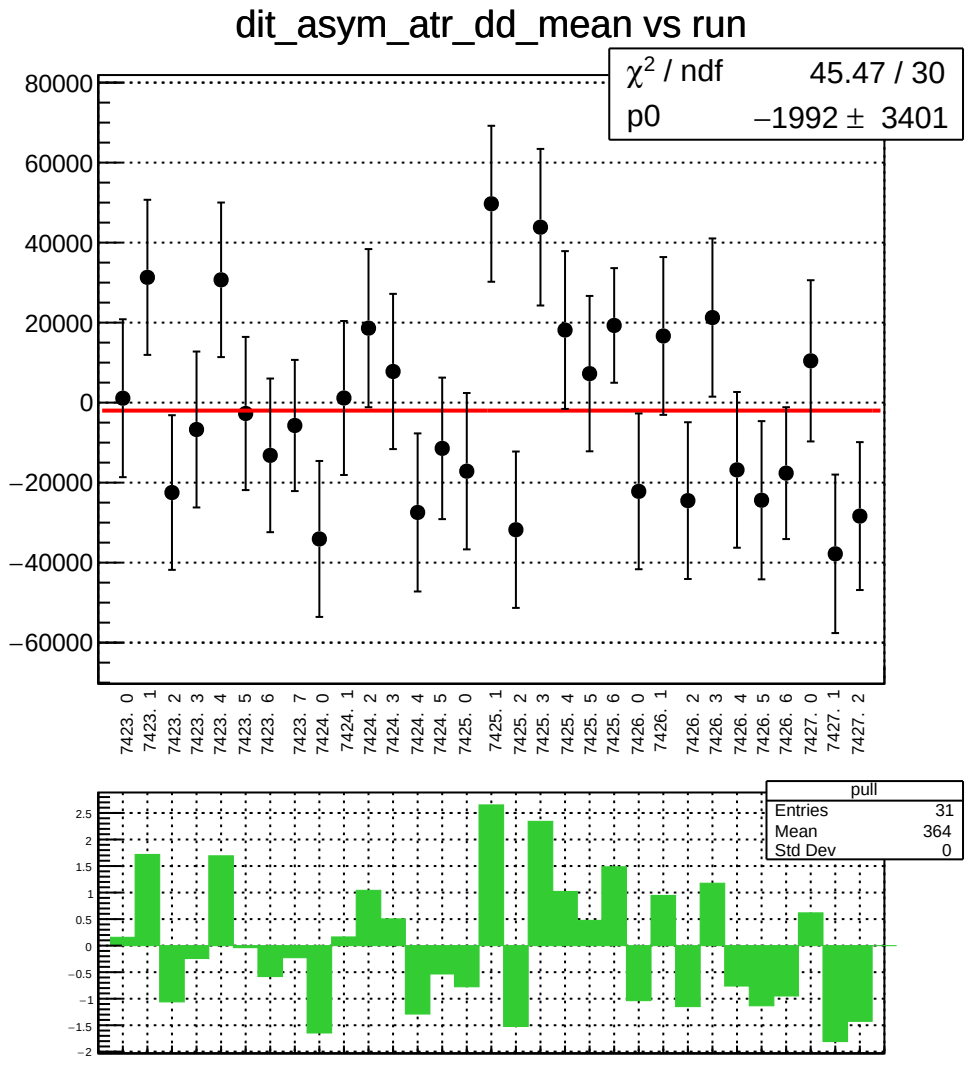

pull1D
Entries 31
Mean −0.003725
Std Dev 1.217
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

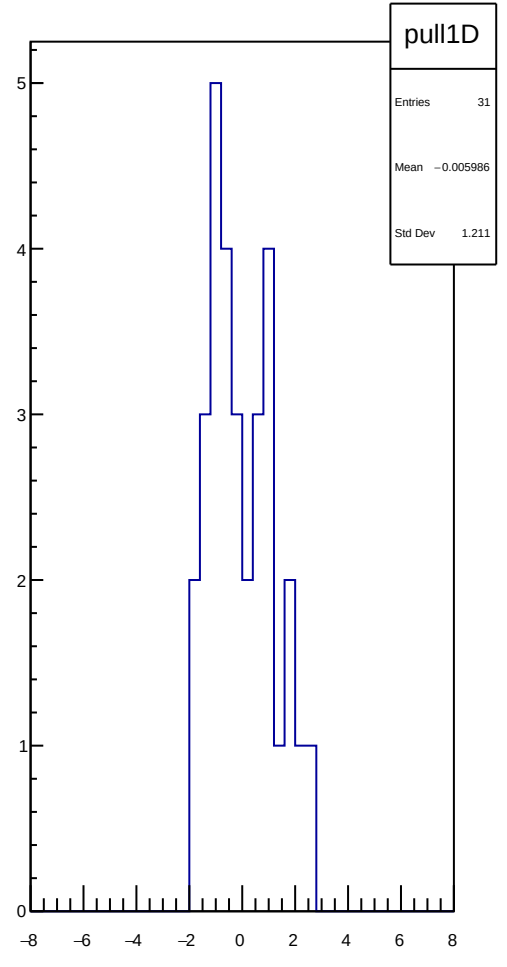

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 33.9 / 30
p0 1818 ± 2.356
1860
1840
1820
1800
1780
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

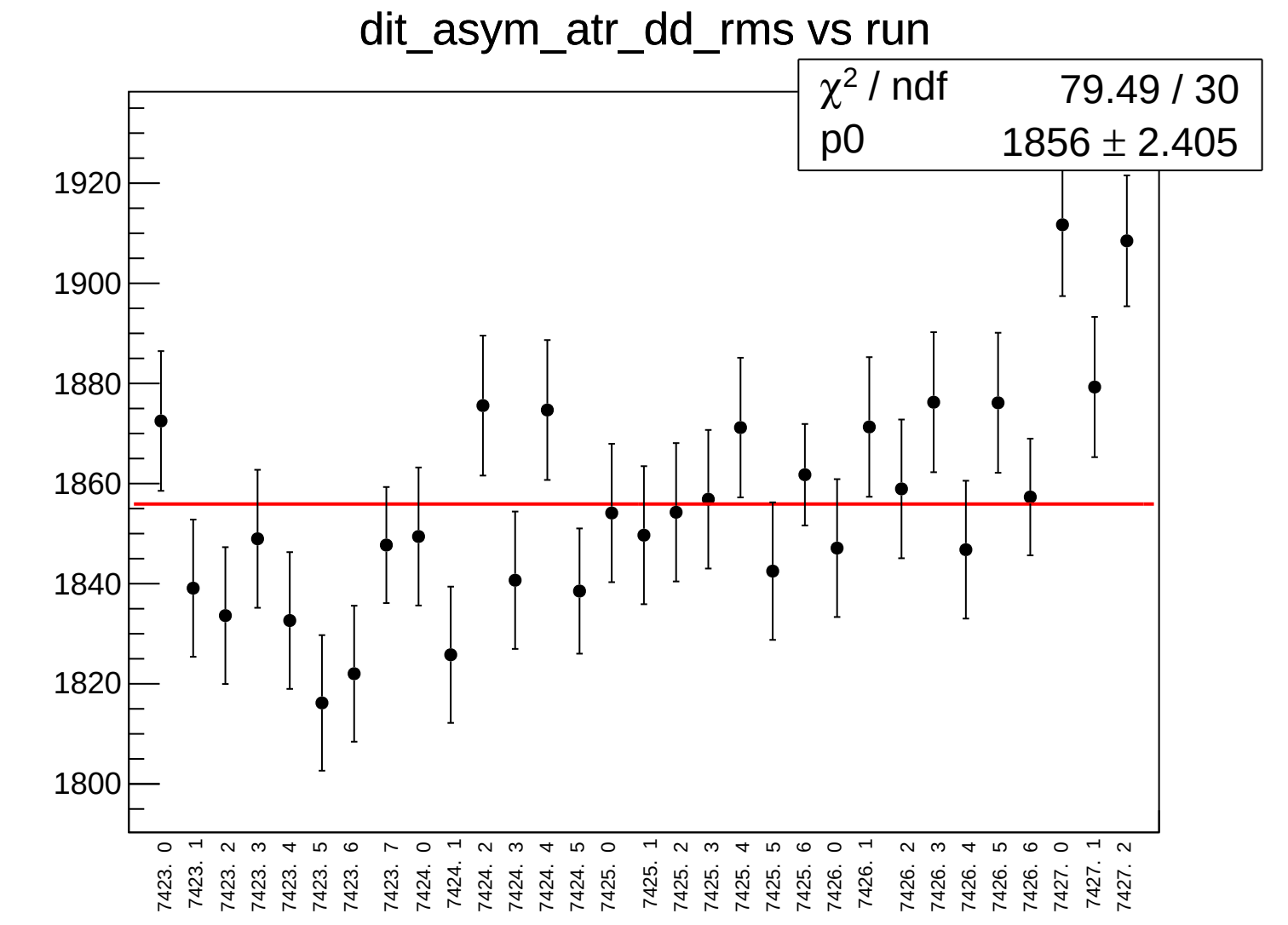

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 24.41 / 30
p0 −2373 ± 7240
×10³
pull
Entries 31
Mean 269.7
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

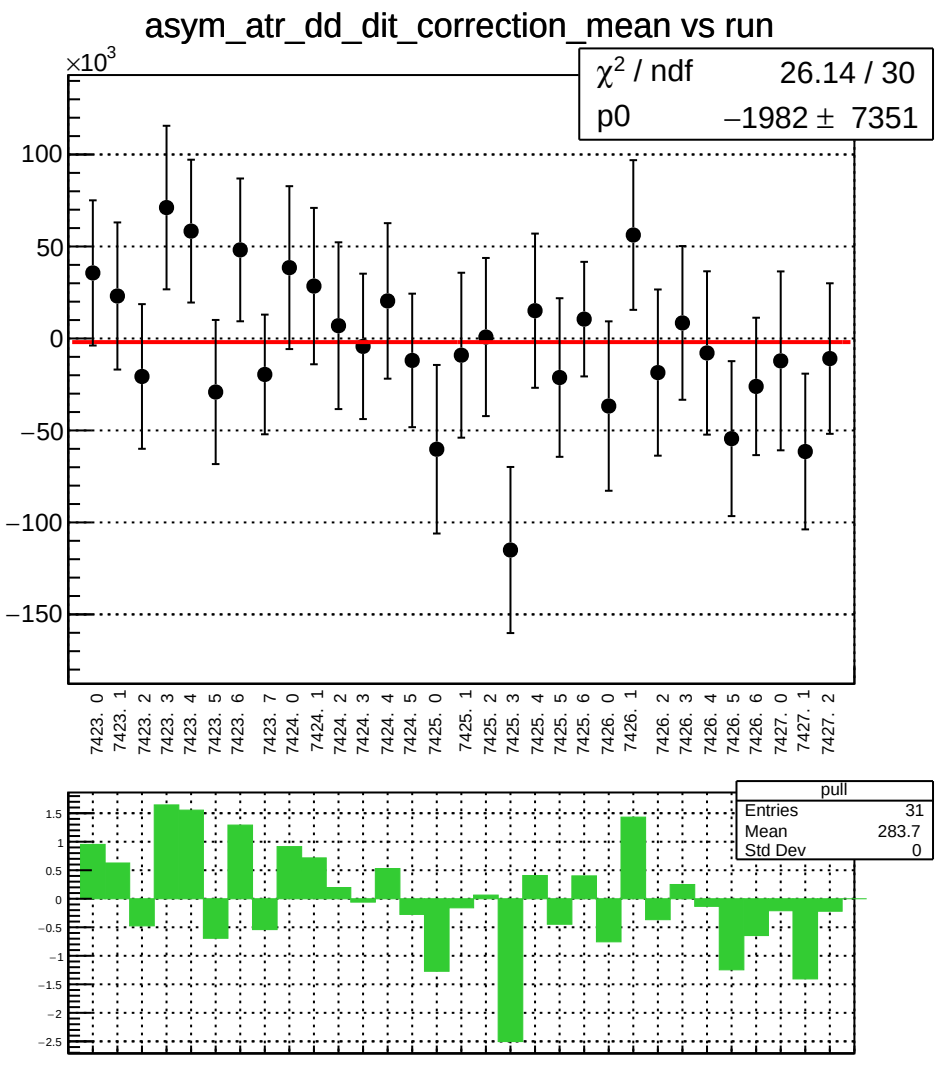

pull1D
Entries 31
Mean −0.01426
Std Dev 0.8873

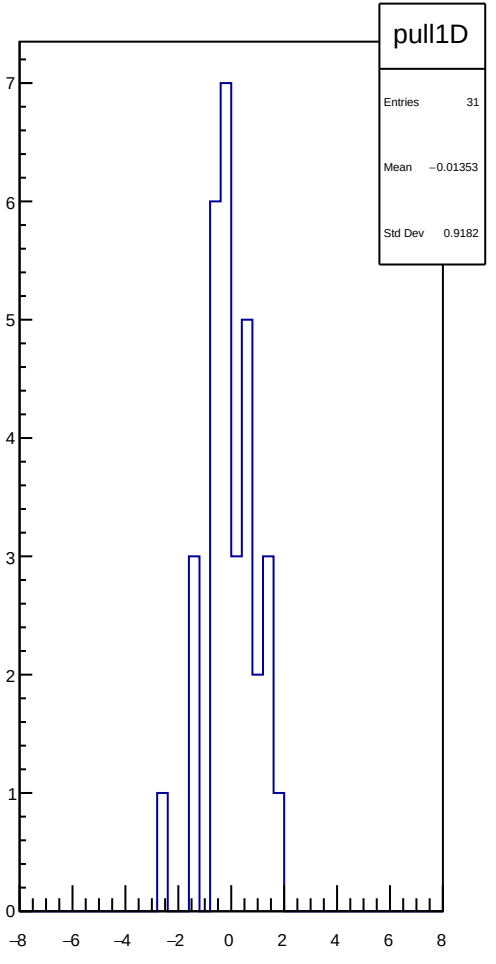

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 2315 / 30
p0 3943 ± 5.12
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

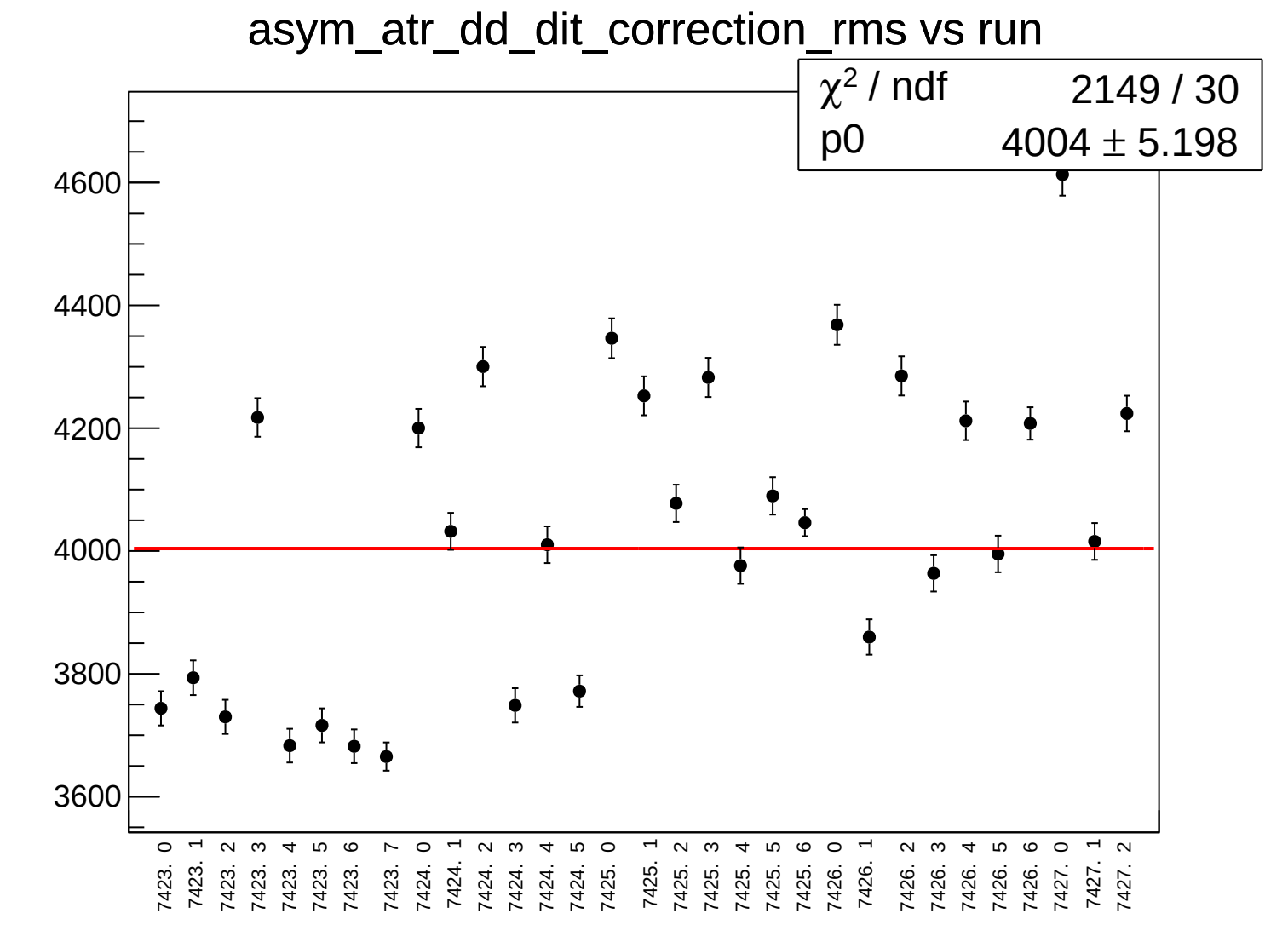

dit_asym_atr_dd_mean vs run
χ² / ndf 45.47 / 30
p0 −1992 ± 3401
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 364
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

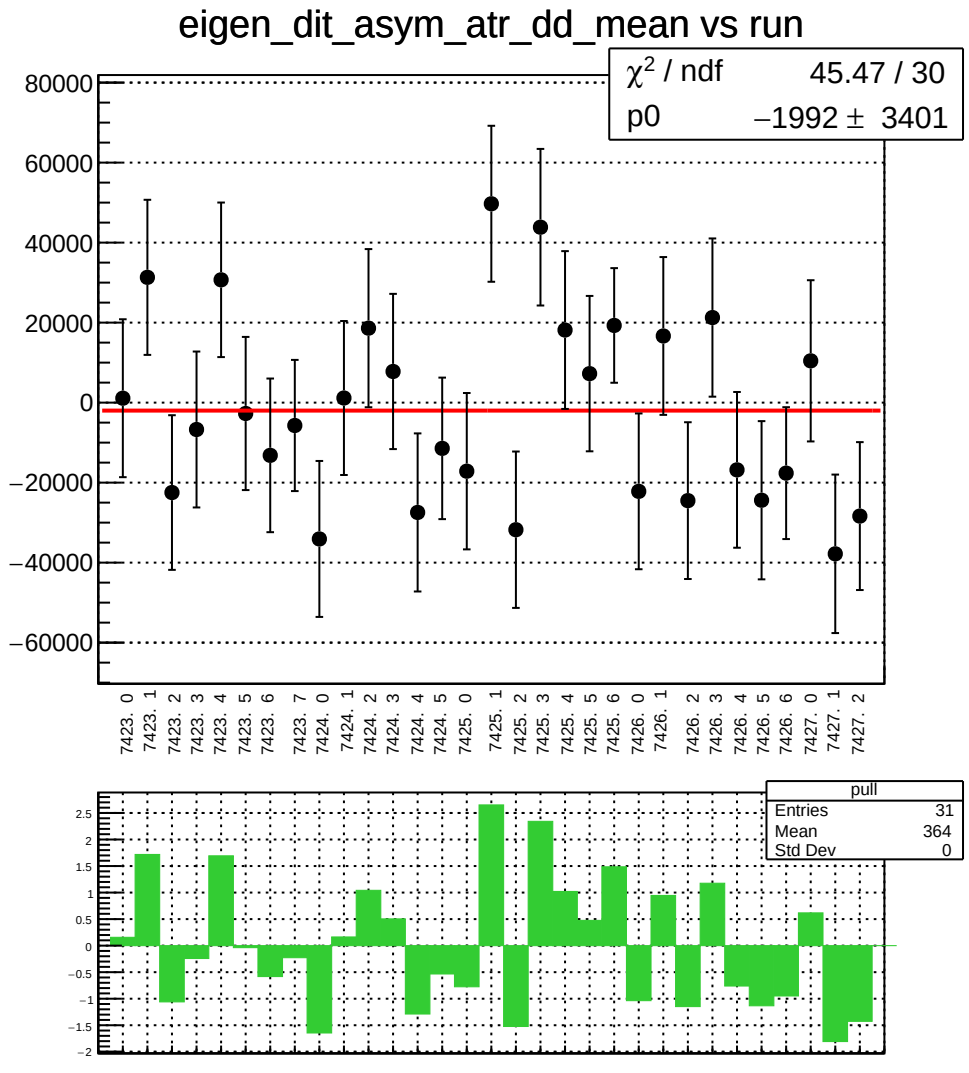

pull1D
Entries 31
Mean −0.005986
Std Dev 1.211
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

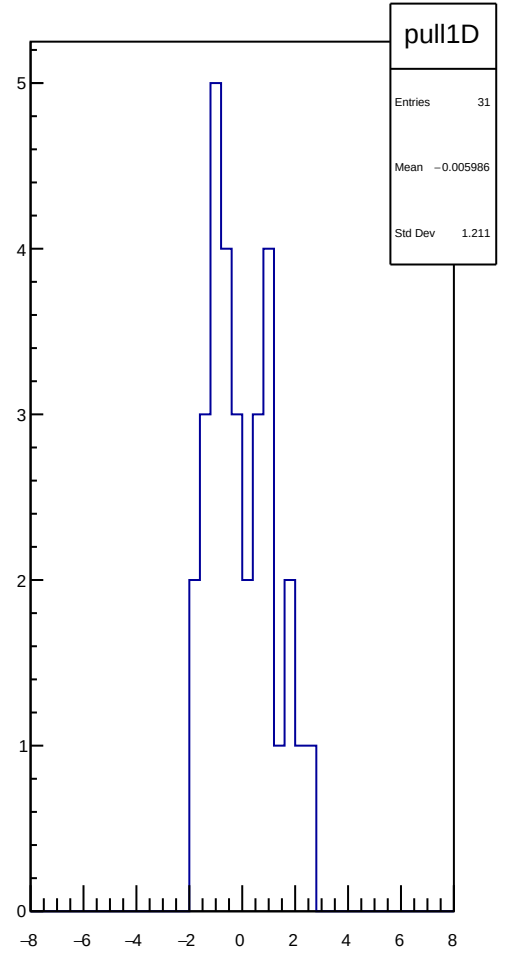

dit_asym_atr_dd_rms vs run
χ² / ndf 79.49 / 30
p0 1856 ± 2.405
1920
1900
1880
1860
1840
1820
1800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

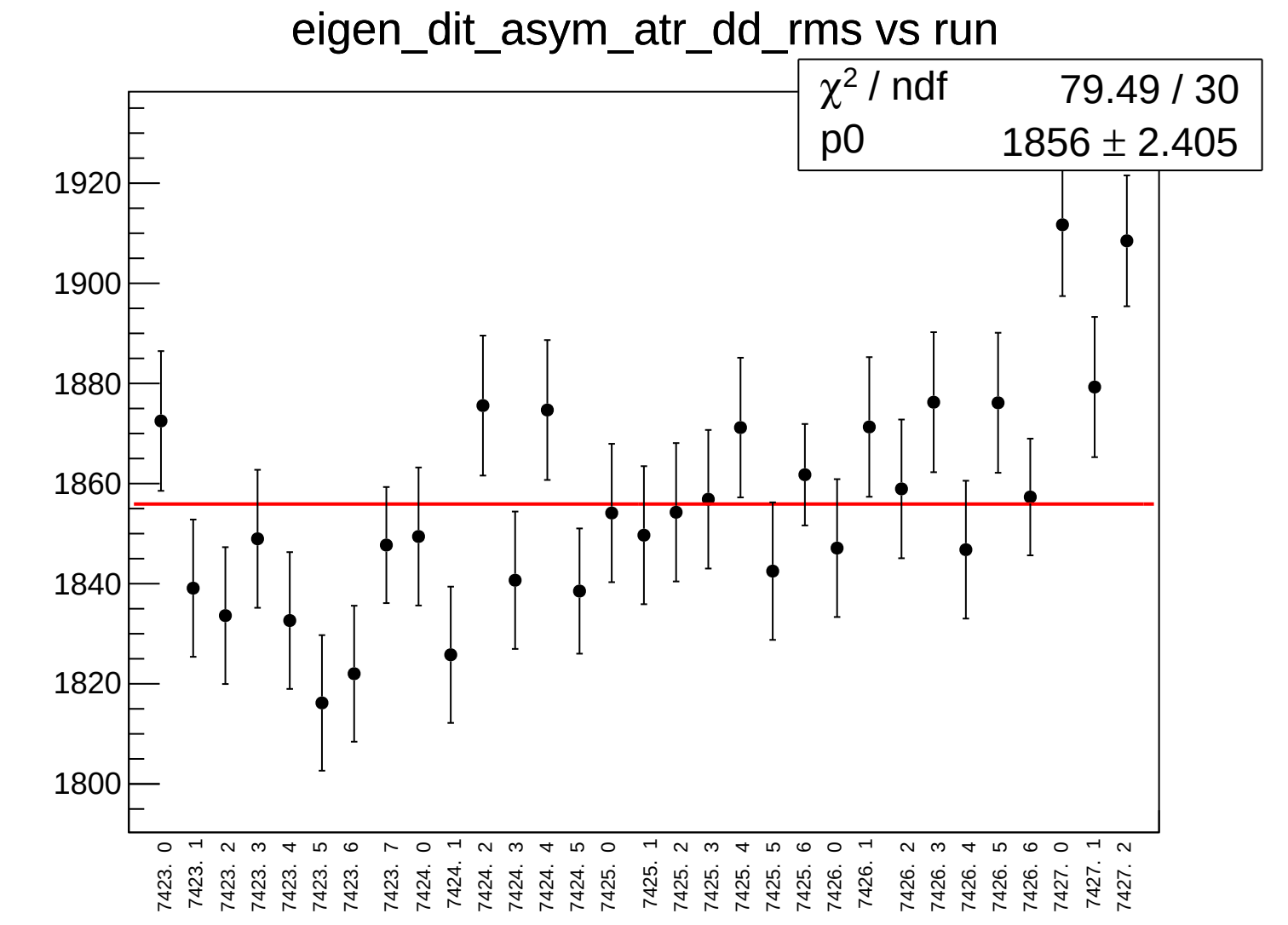

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 26.14 / 30
p0 −1982 ± 7351
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 283.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

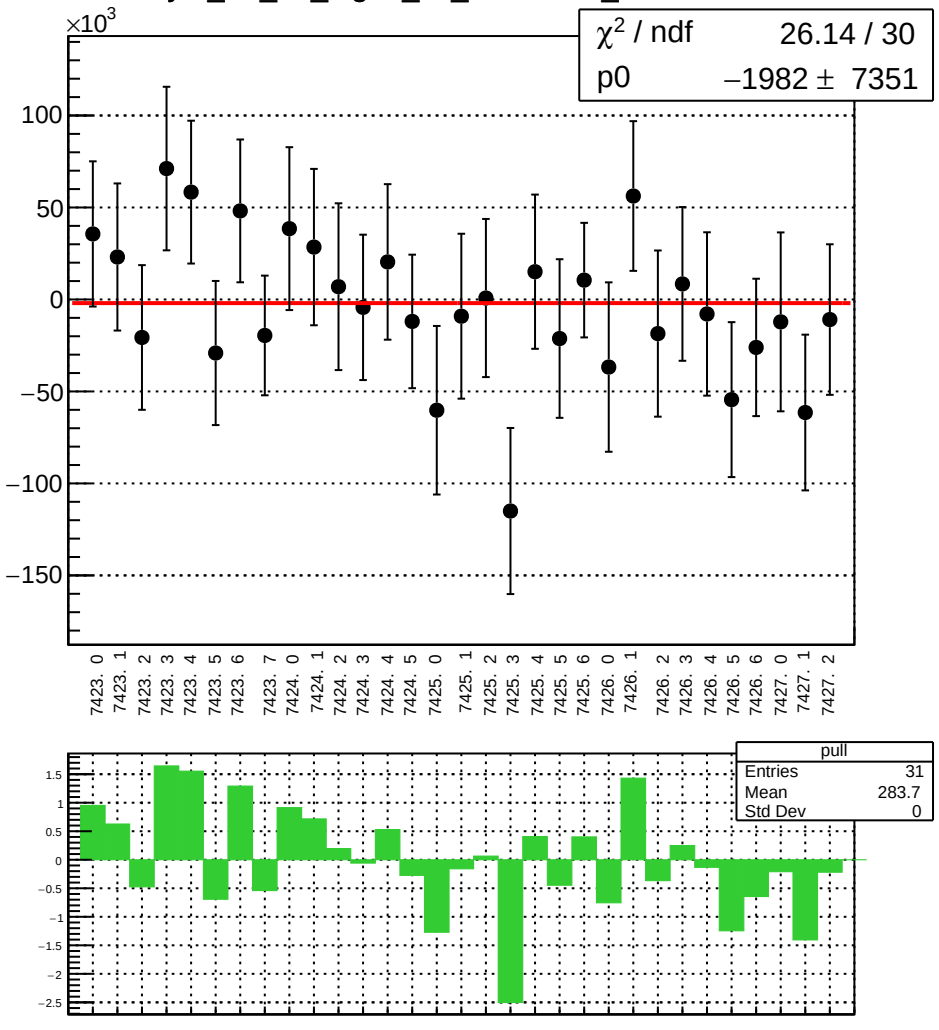

pull1D
Entries 31
Mean −0.01353
Std Dev 0.9182
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

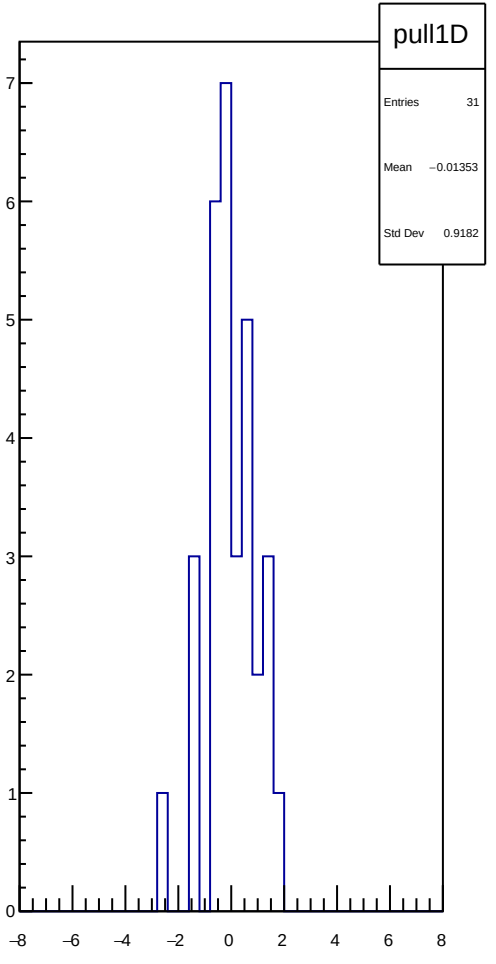

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 2149 / 30
p0 4004 ± 5.198
4600
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

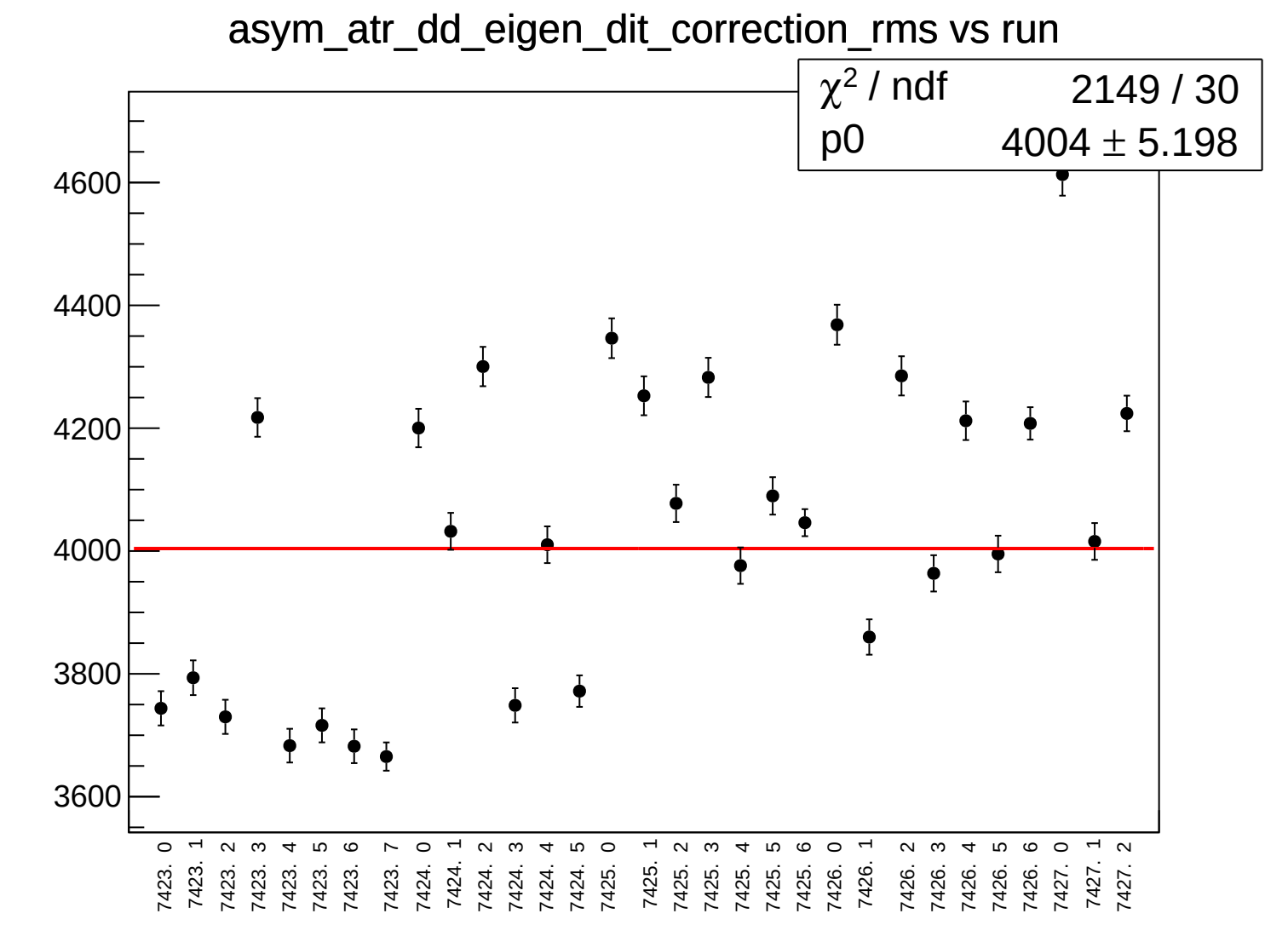

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 45.47 / 30
p0 −1992 ± 3401
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 364
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

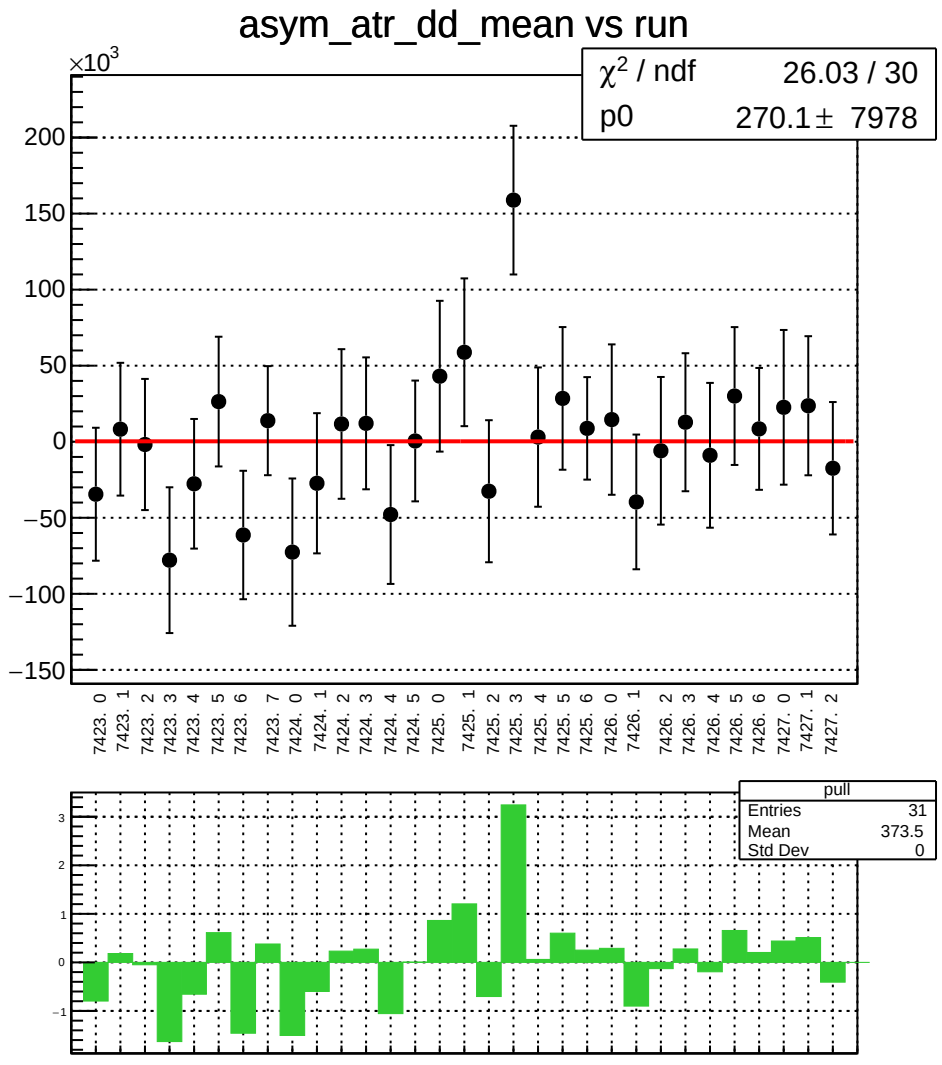

pull1D
Entries 31
Mean −0.005986
Std Dev 1.211
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

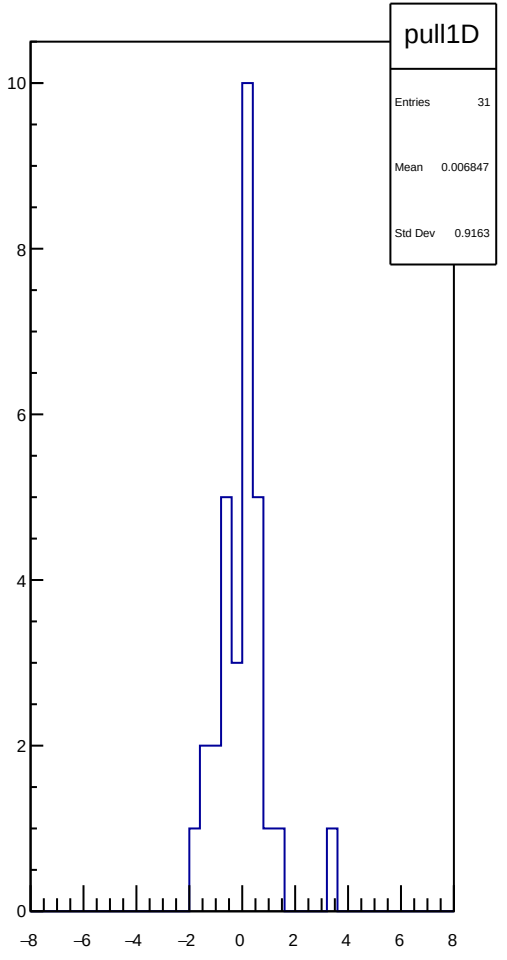

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 79.49 / 30
p0 1856 ± 2.405
1920
1900
1880
1860
1840
1820
1800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

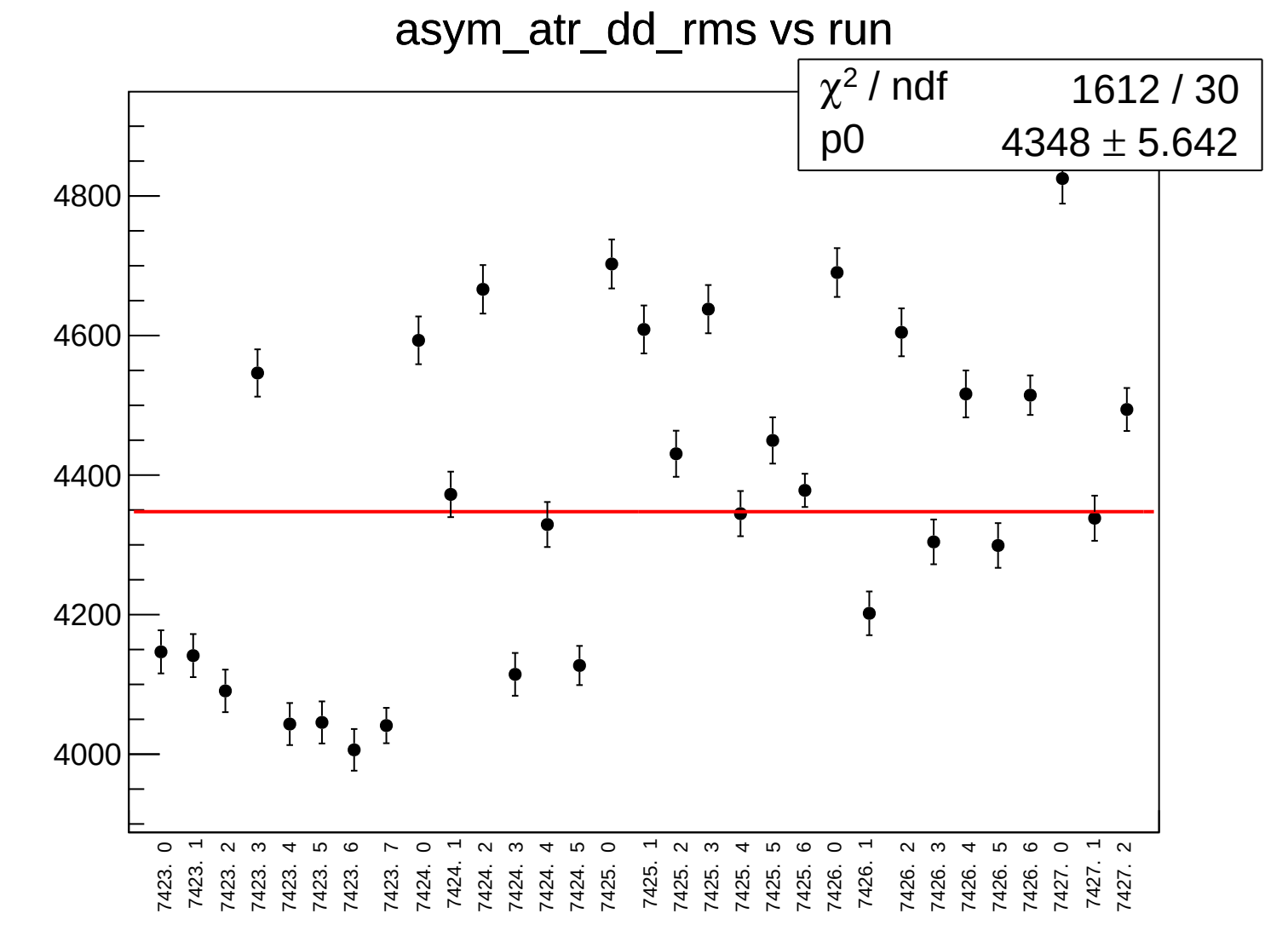

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 26.14 / 30
p0 −1982 ± 7351
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 283.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

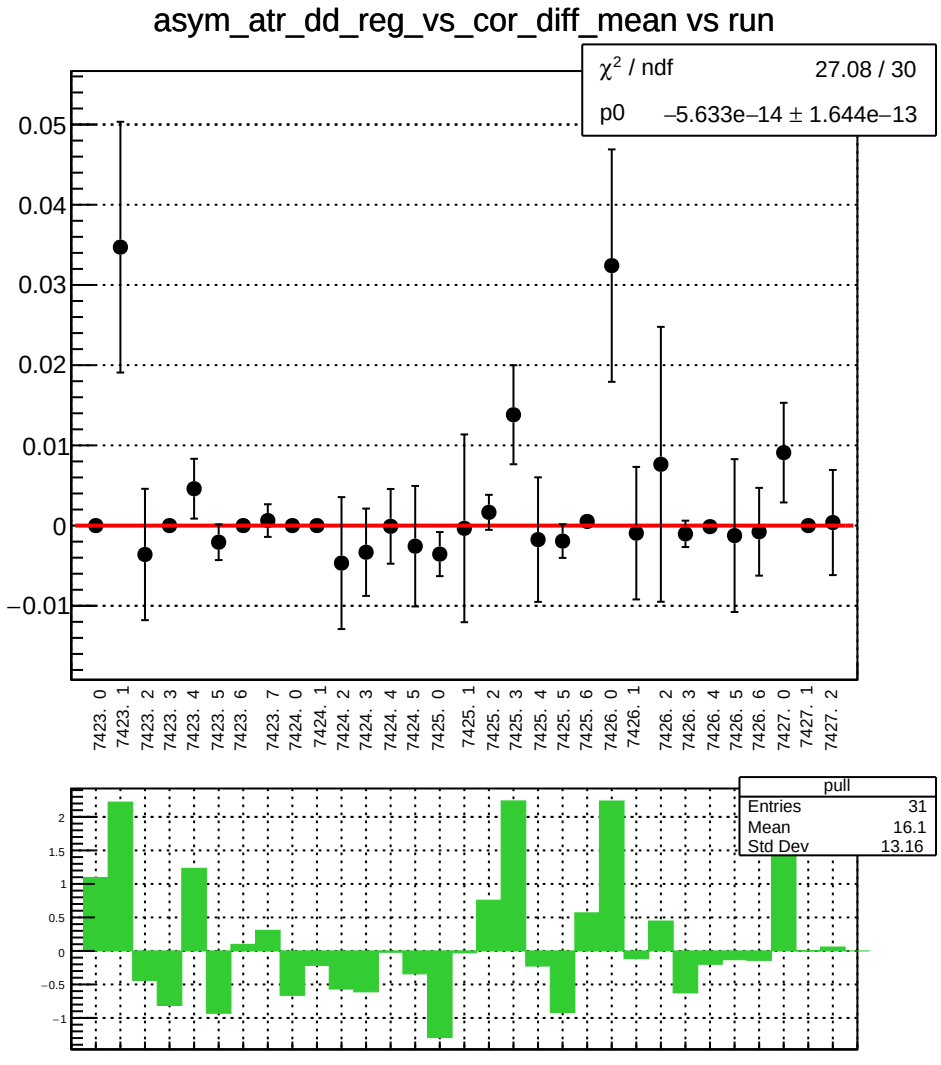

pull1D
Entries 31
Mean −0.01353
Std Dev 0.9182
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

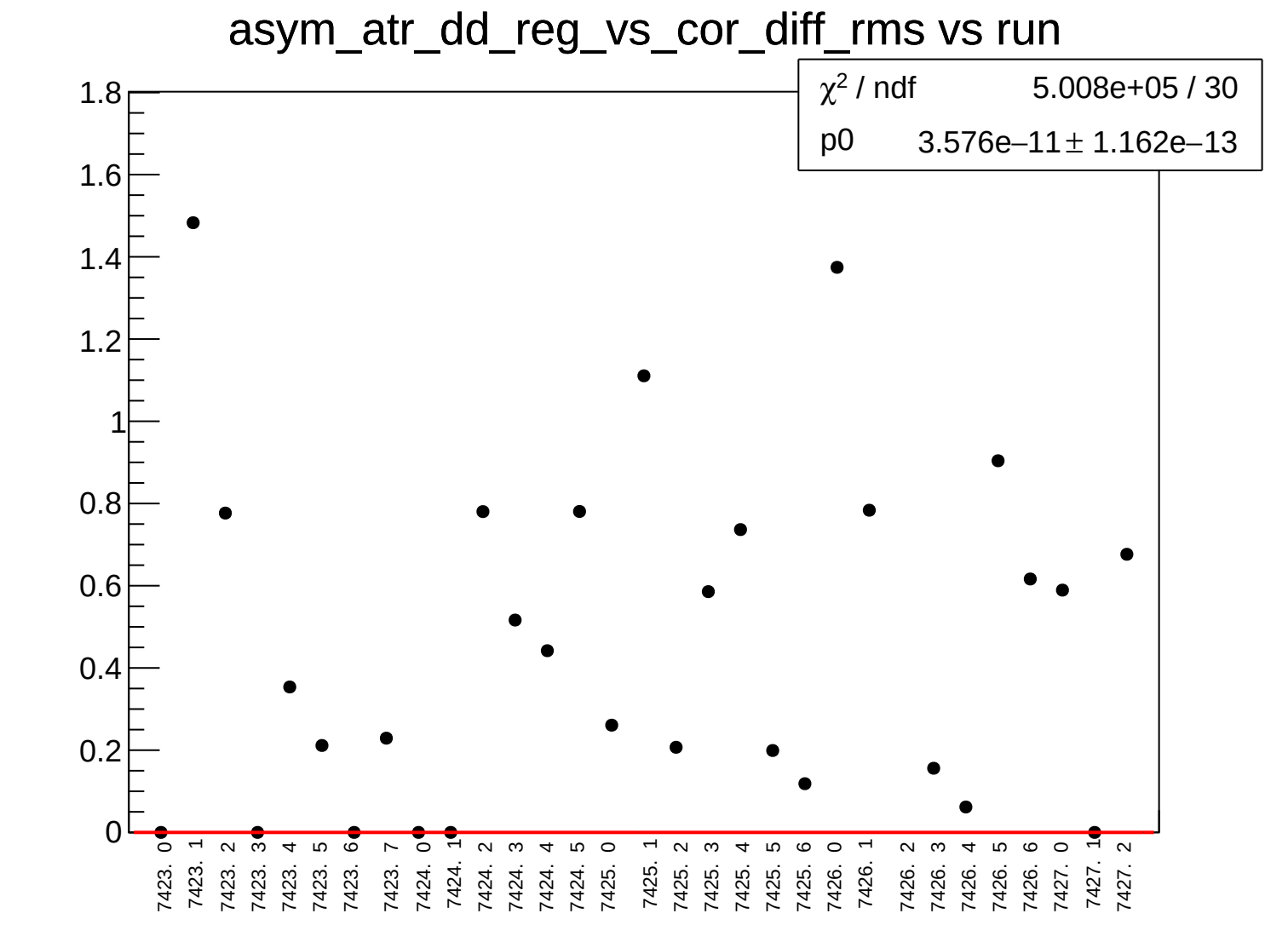

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 2149 / 30
p0 4004 ± 5.198
4600
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

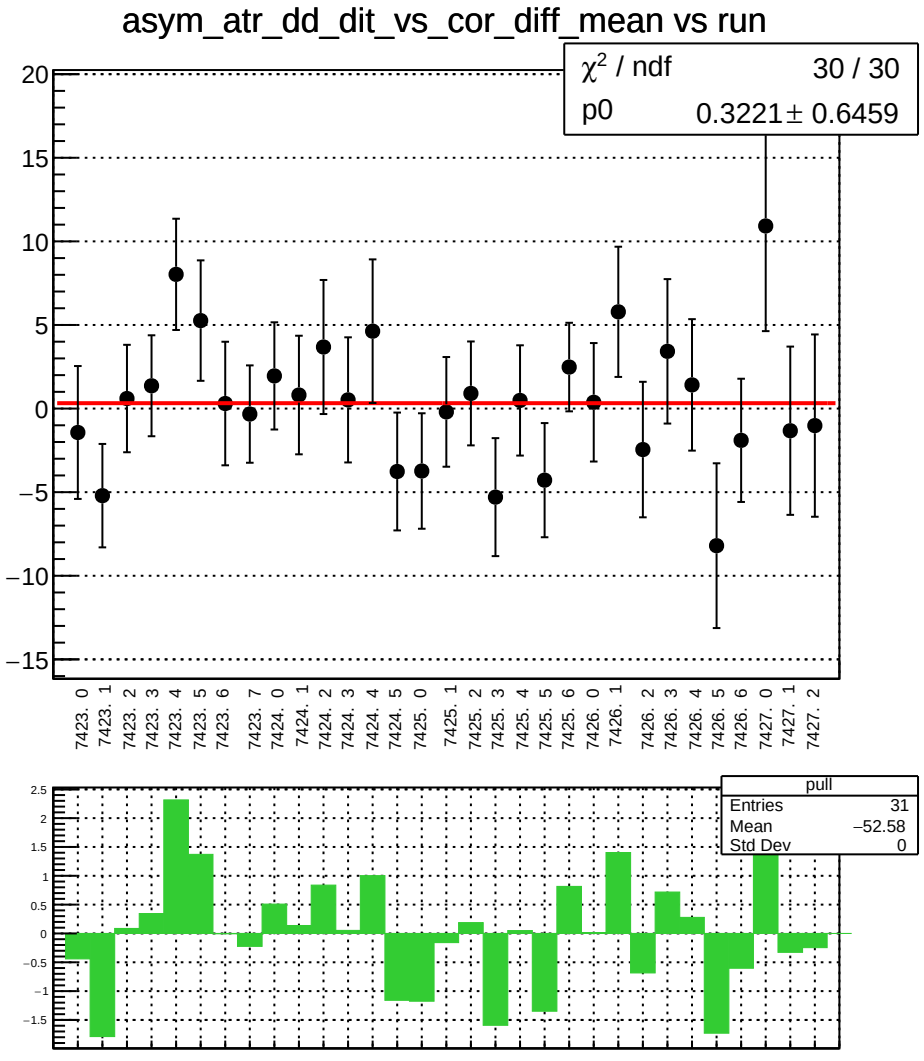

asym_atr_dd_mean vs run
×10^3
χ² / ndf 26.03 / 30
p0 270.1± 7978
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 373.5
Std Dev 0
3
2
1
0
−1

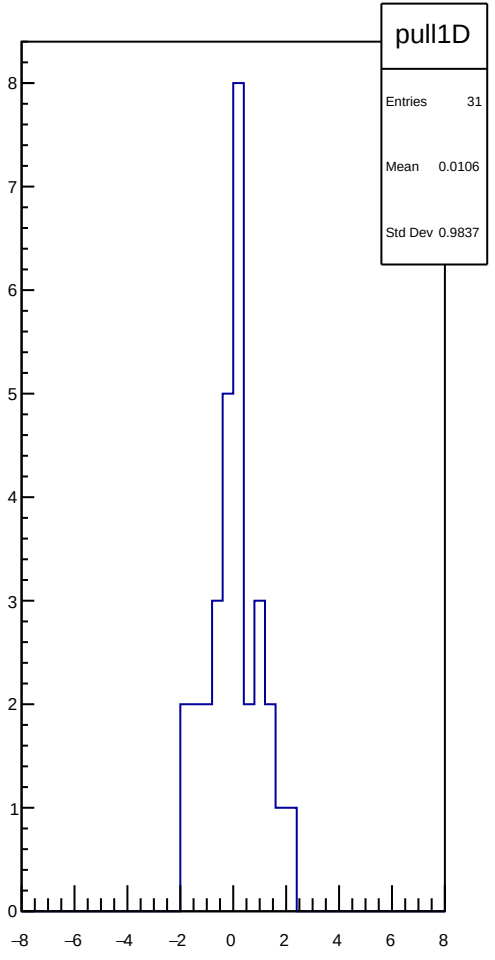

pull1D
Entries 31
Mean 0.006847
Std Dev 0.9163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

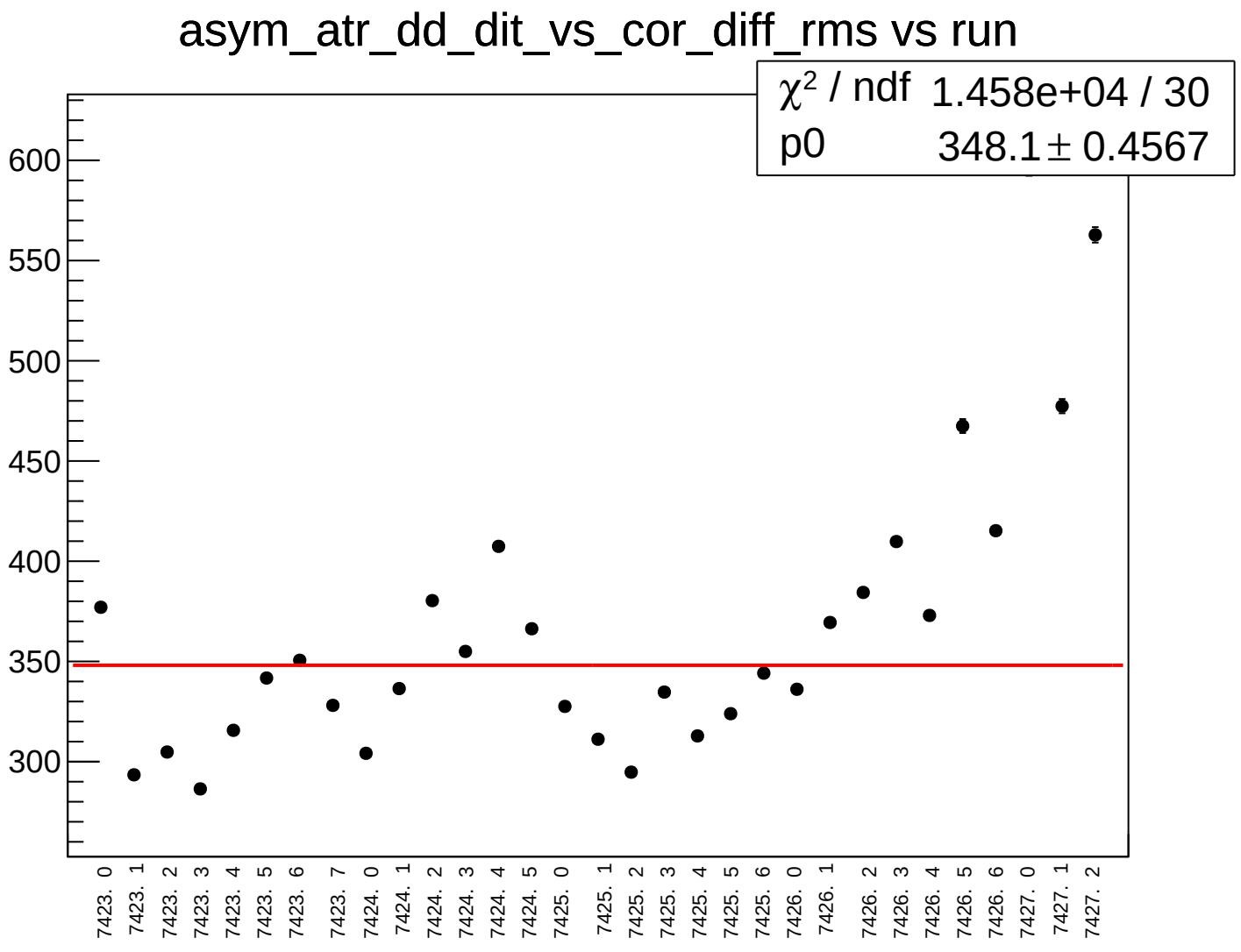

asym_atr_dd_rms vs run
χ² / ndf 1612 / 30
p0 4348 ± 5.642
4800
4600
4400
4200
4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

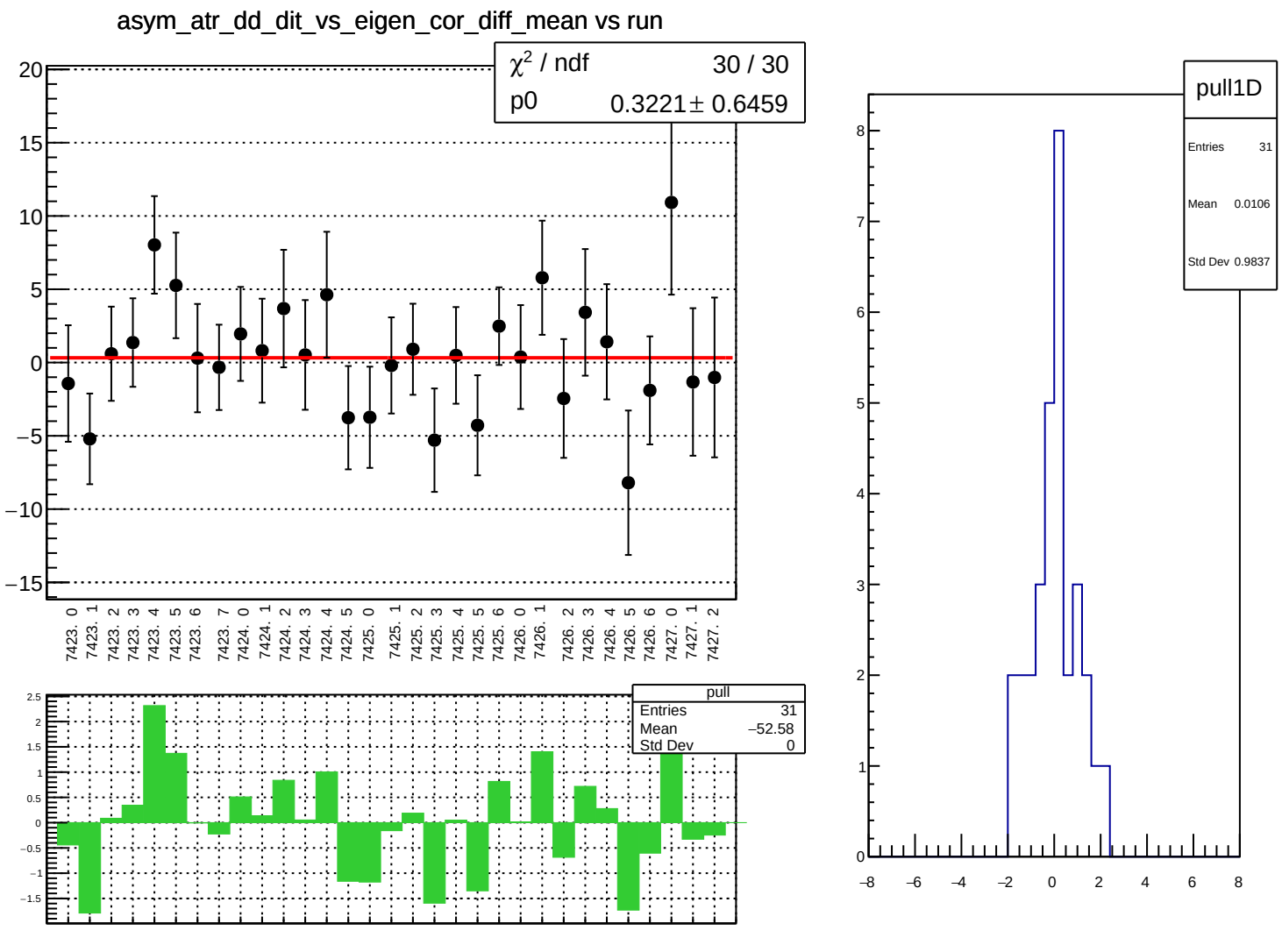

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 27.08 / 30
p0 −5.633e−14 ± 1.644e−13
0.05
0.04
0.03
0.02
0.01
0
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.1
Std Dev 13.16
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.1435
Std Dev 0.9236
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

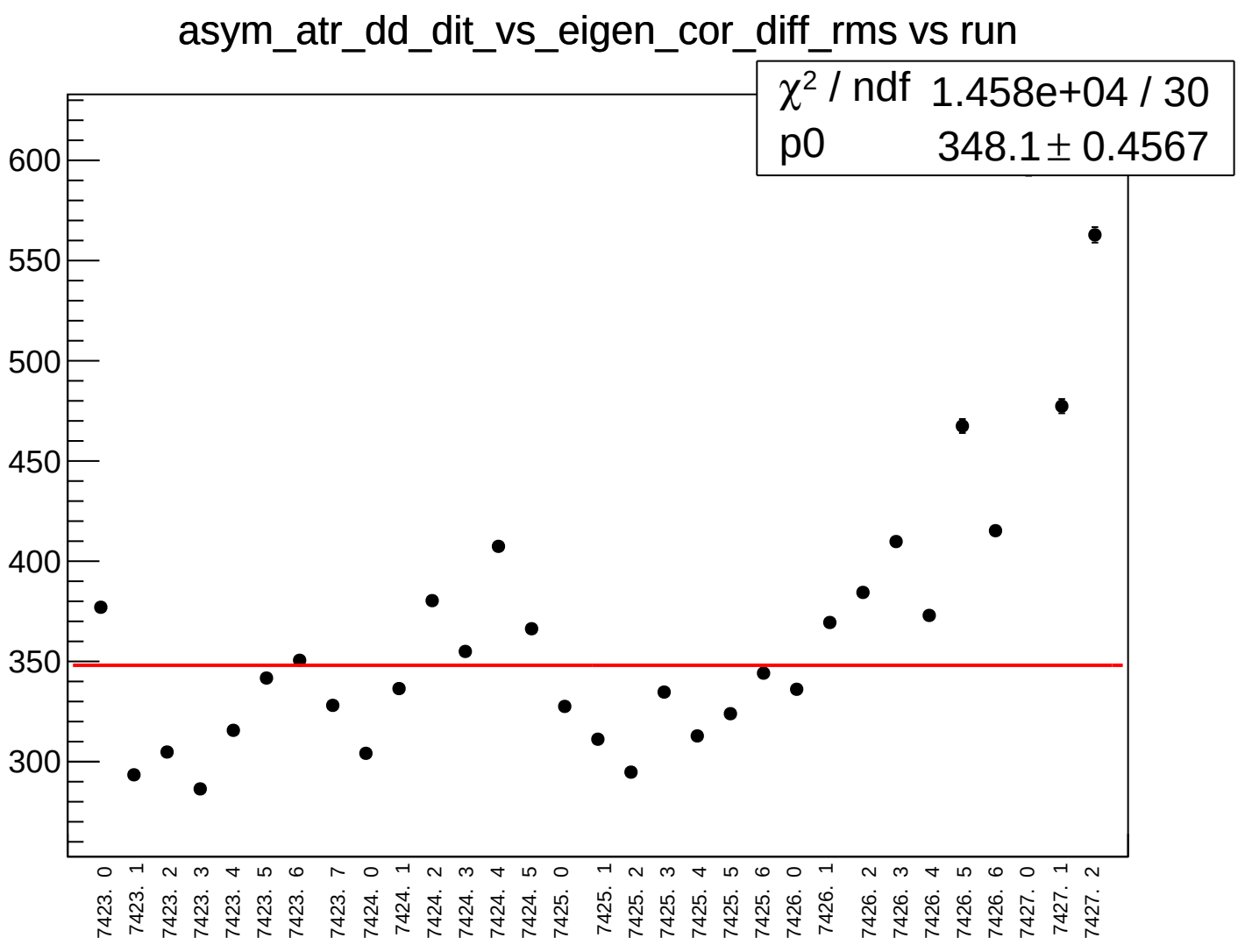

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 5.008e+05 / 30
p0 3.576e−11 ± 1.162e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

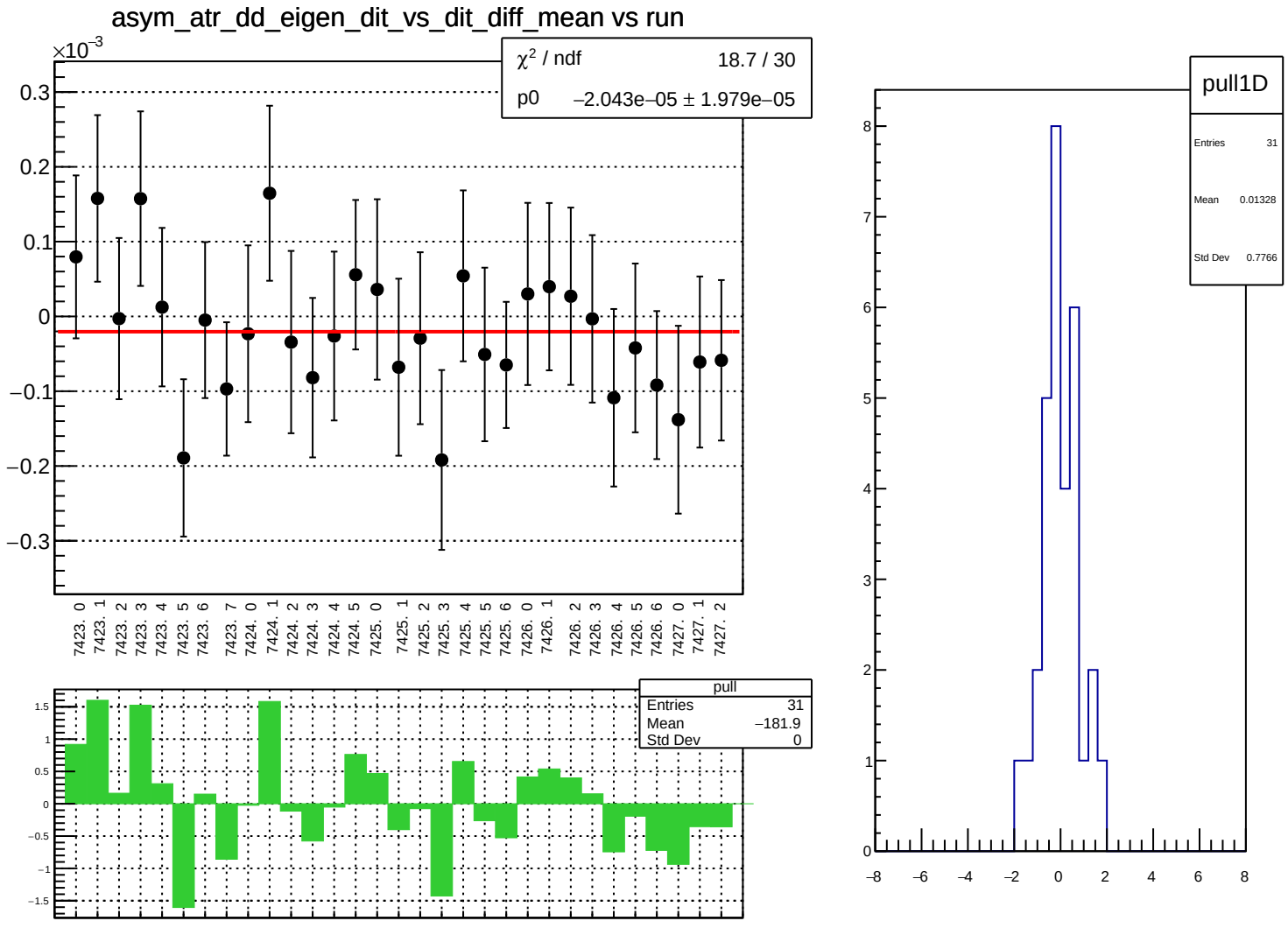

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 30 / 30
p0 0.3221 ± 0.6459
pull
Entries 31
Mean −52.58
Std Dev 0

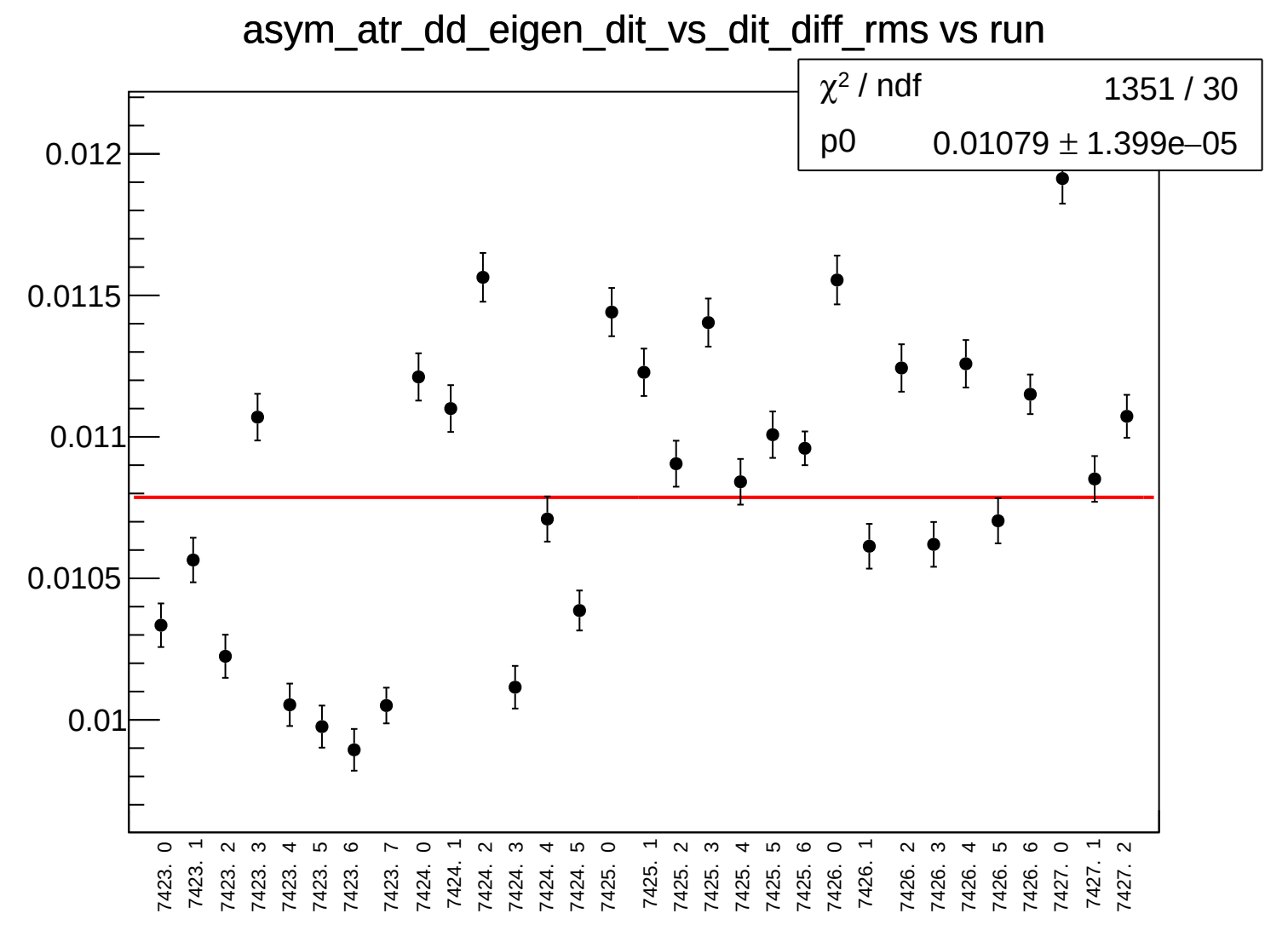

pull1D
Entries 31
Mean 0.0106
Std Dev 0.9837

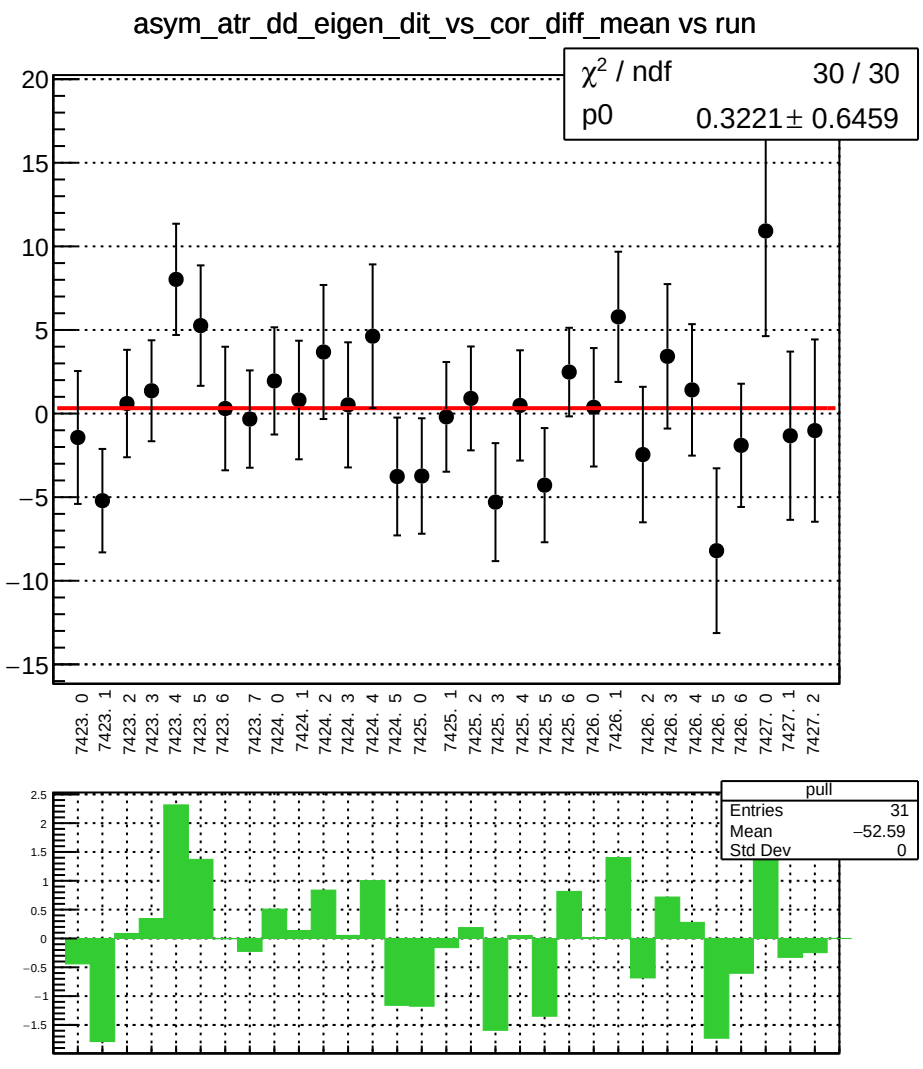

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.458e+04 / 30
p0 348.1 ± 0.4567
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

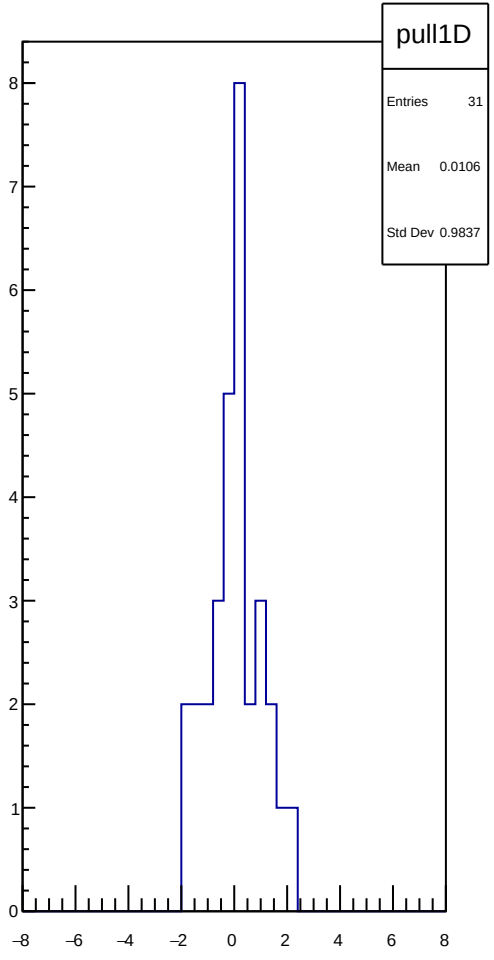

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30 / 30
p0 0.3221 ± 0.6459
pull
Entries 31
Mean −52.58
Std Dev 0
pull1D
Entries 31
Mean 0.0106
Std Dev 0.9837

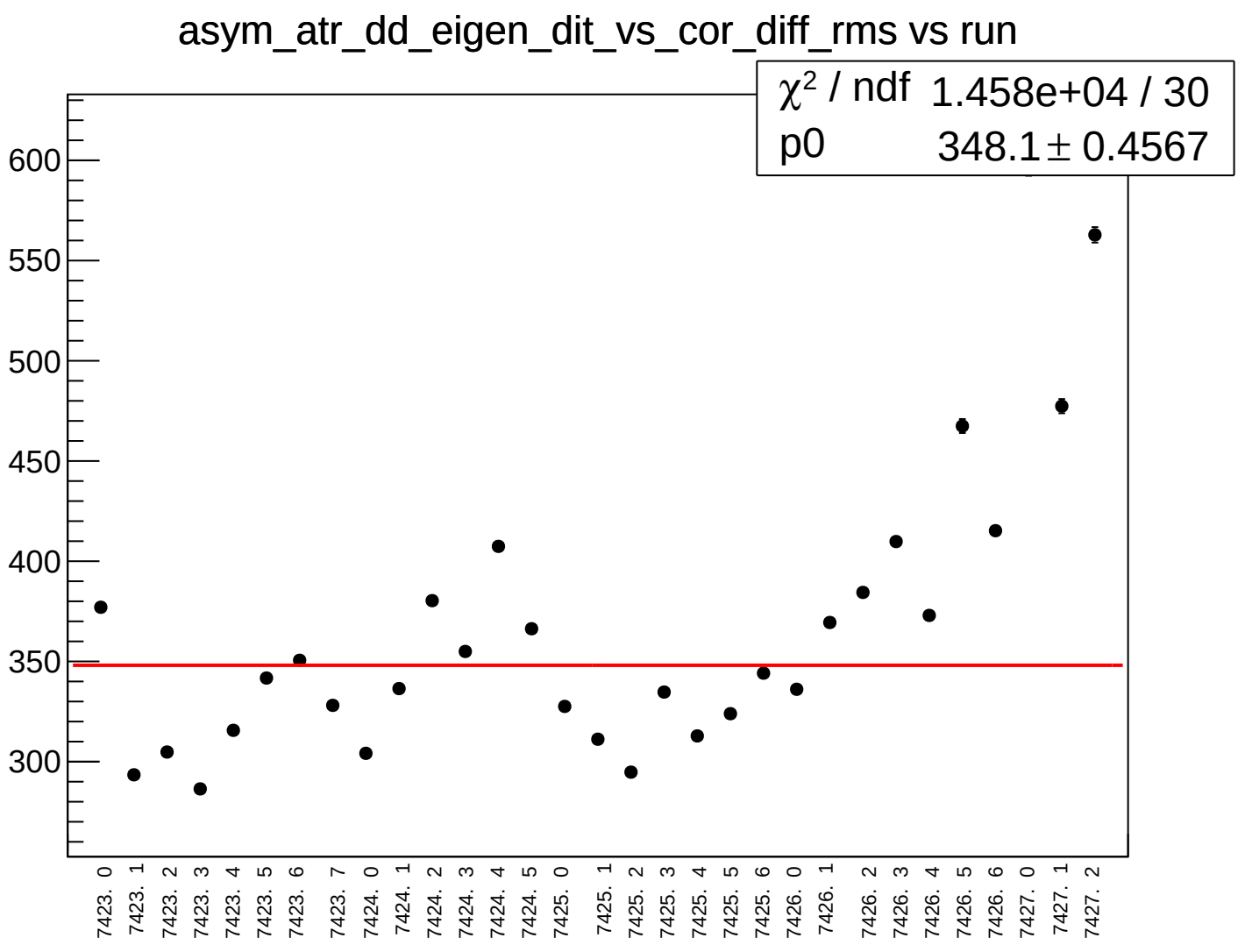

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.458e+04 / 30
p0 348.1 ± 0.4567
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

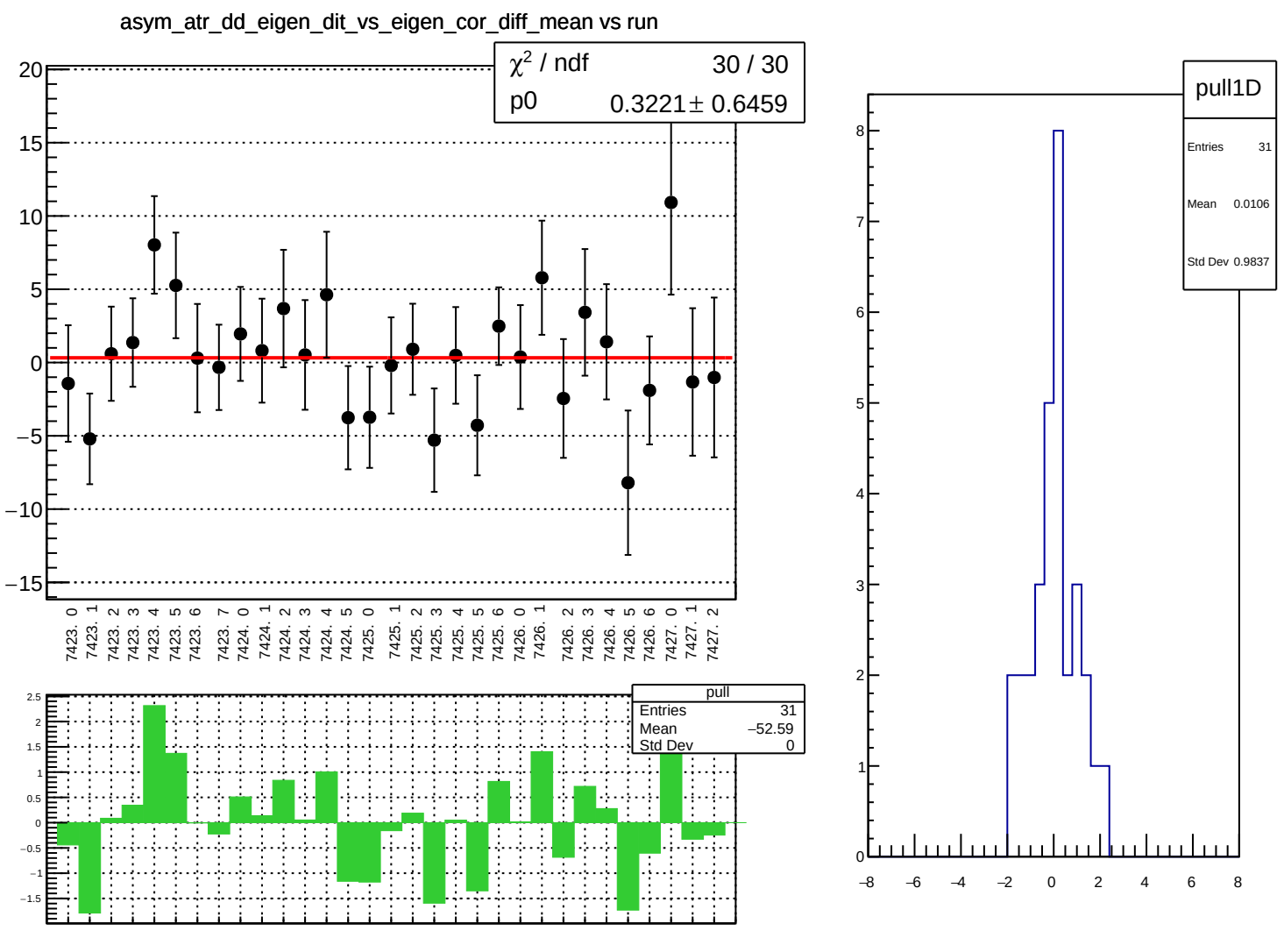

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.7 / 30
p0 −2.043e−05 ± 1.979e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −181.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01328
Std Dev 0.7766
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

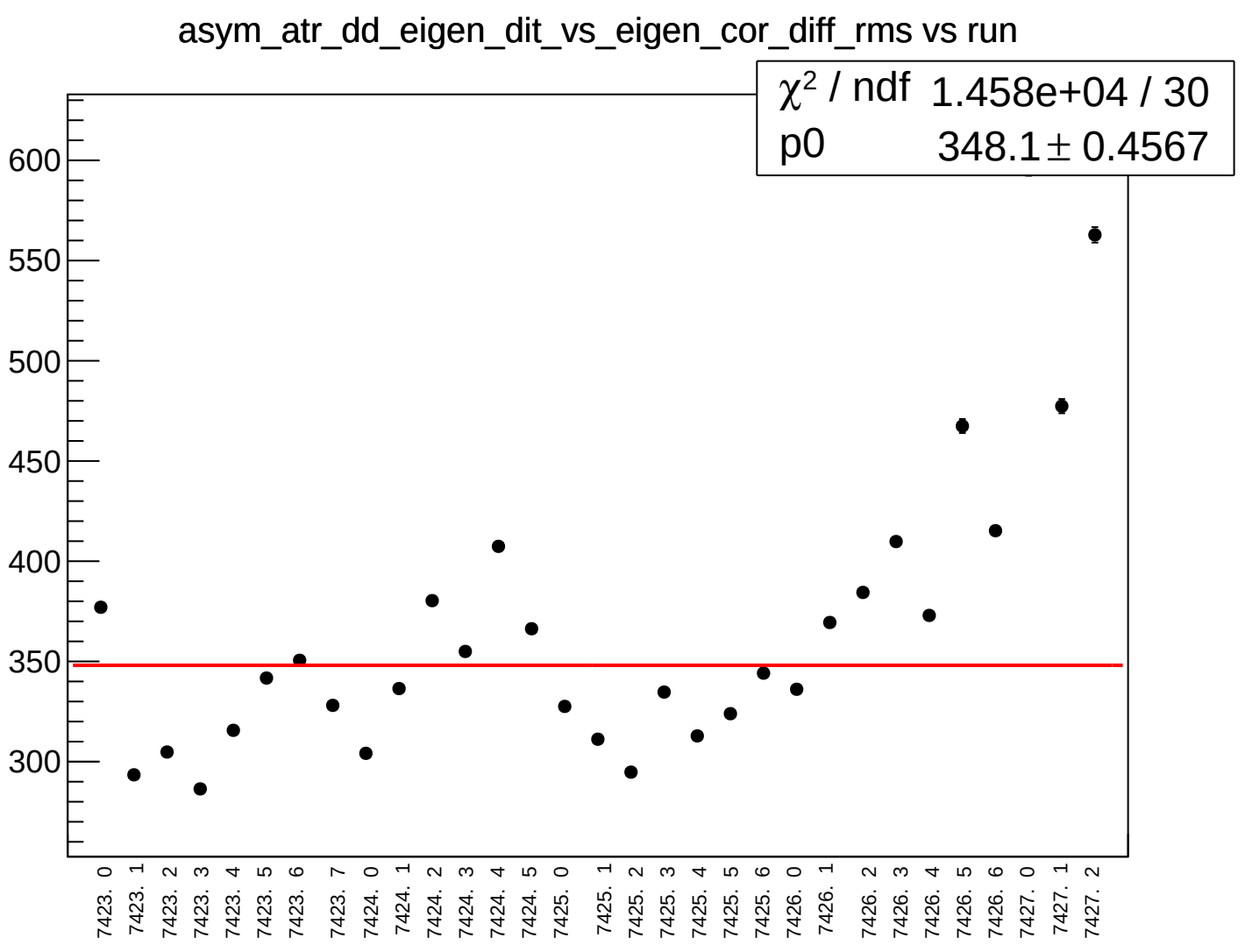

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1351 / 30
p0 0.01079 ± 1.399e–05
0.012
0.0115
0.011
0.0105
0.01
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2


asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30 / 30
p0 0.3221 ± 0.6459
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −52.59
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

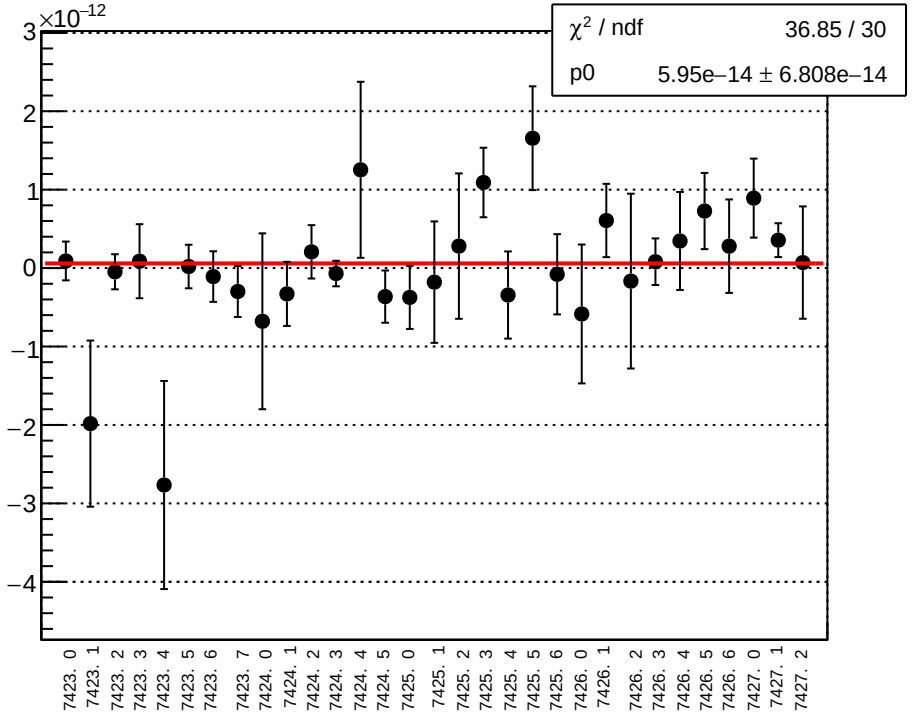

pull1D
Entries 31
Mean 0.0106
Std Dev 0.9837
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

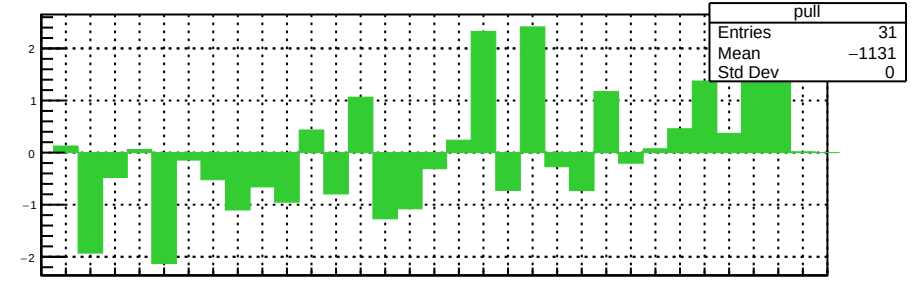

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.458e+04 / 30
p0 348.1 ± 0.4567
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

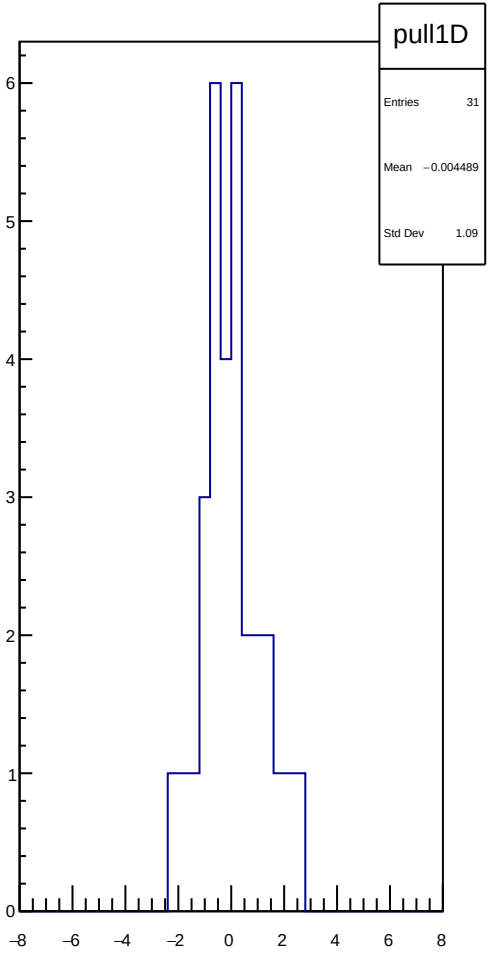

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30 / 30
p0 0.3221 ± 0.6459
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −52.59
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.0106
Std Dev 0.9837
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

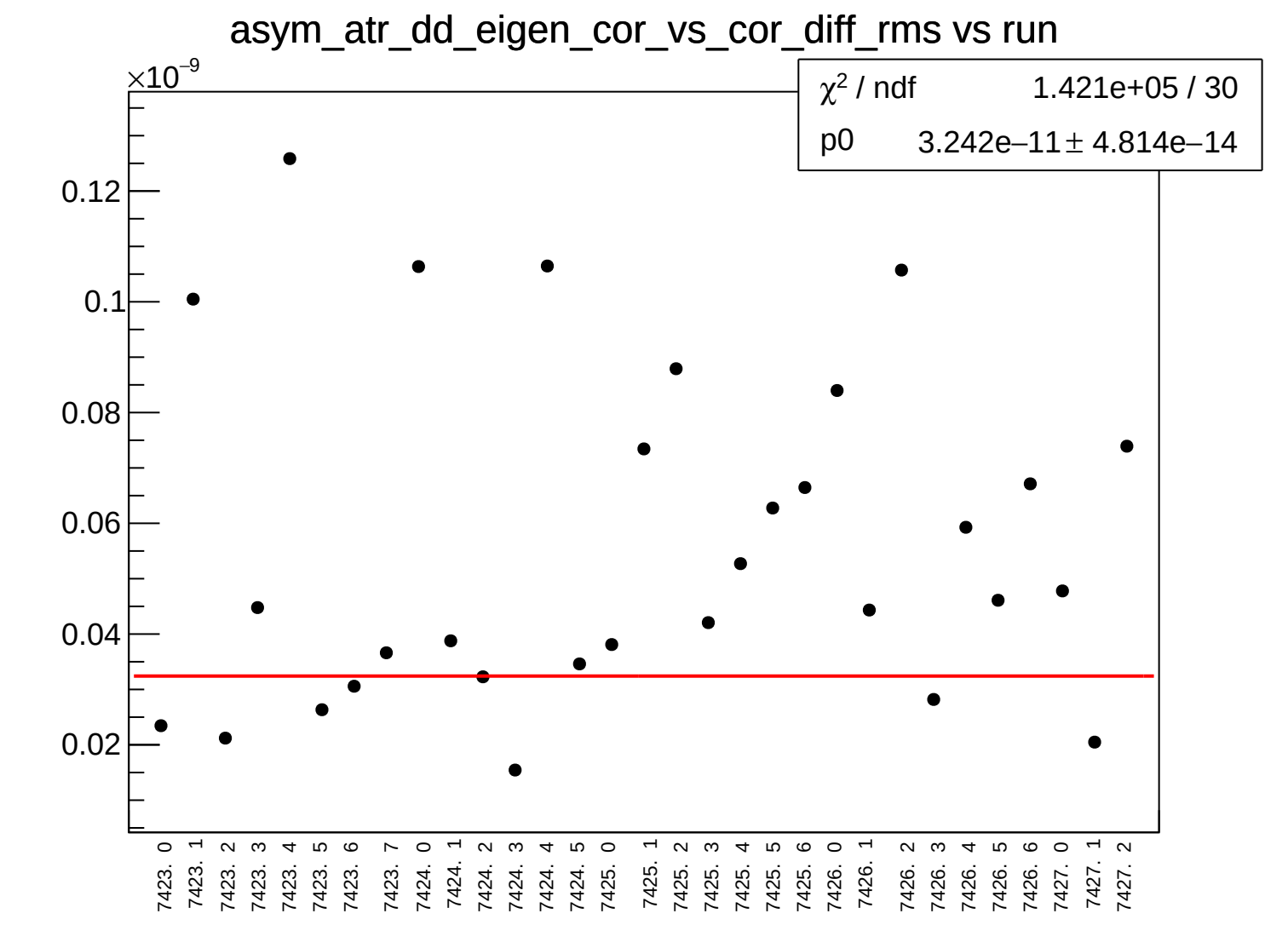

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.458e+04 / 30
p0 348.1 ± 0.4567
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

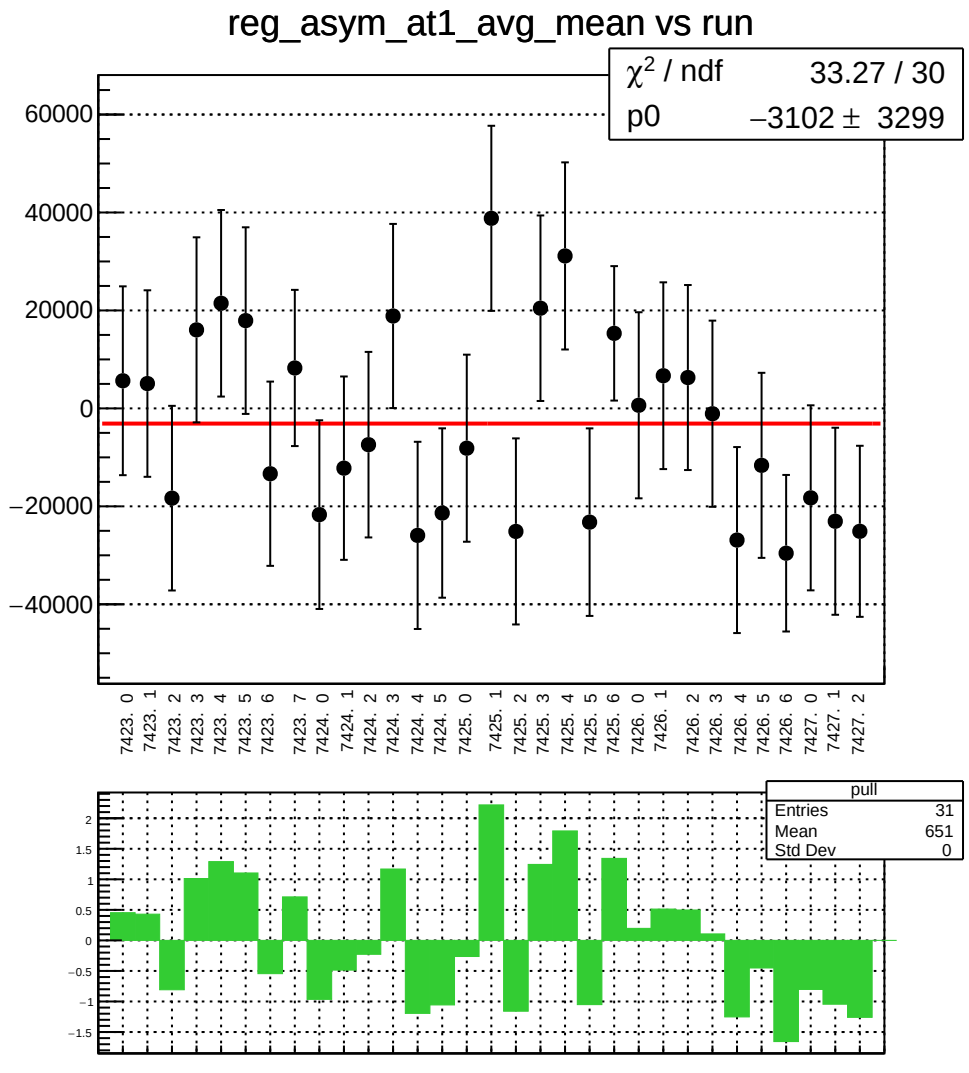
asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run

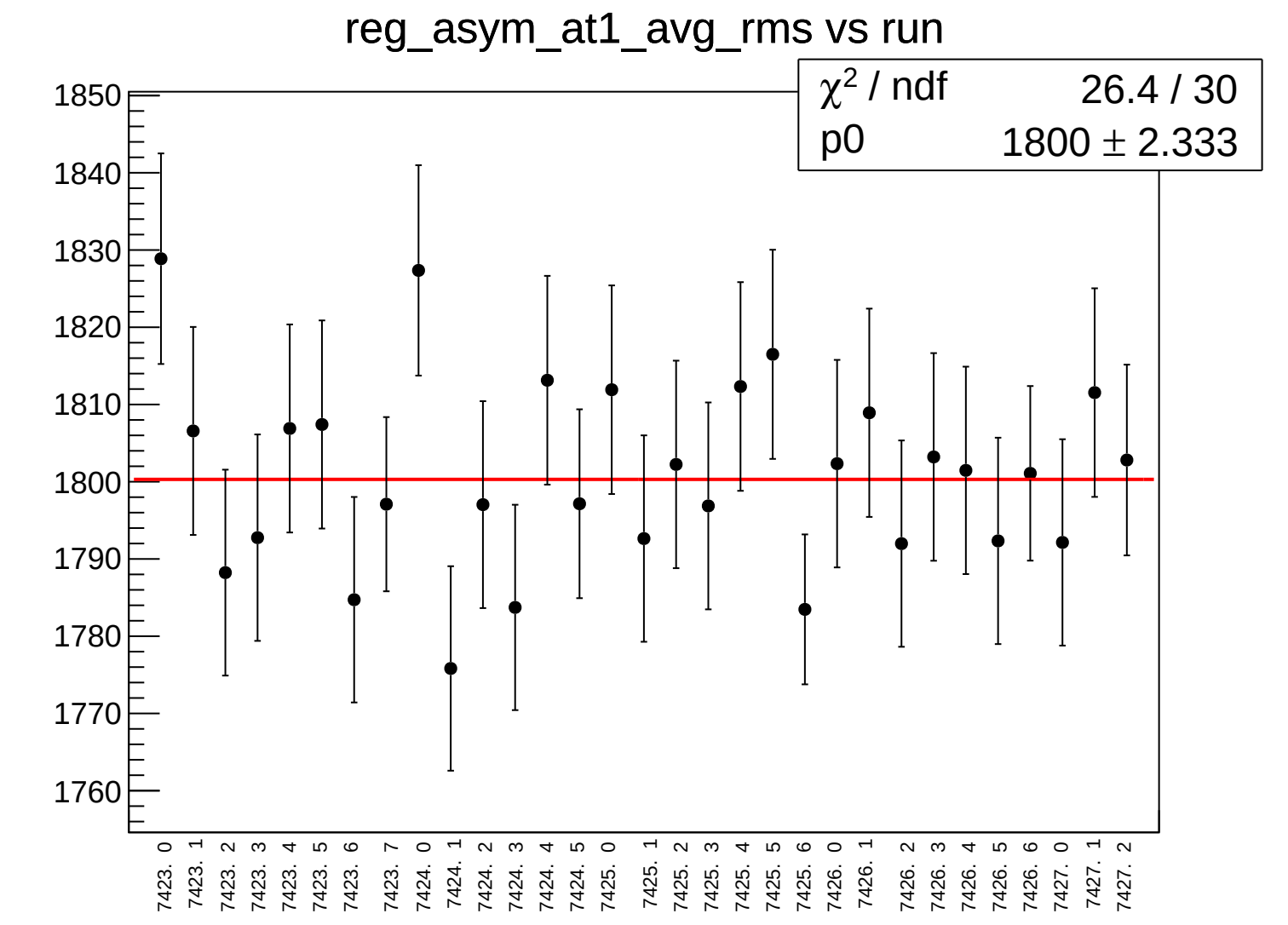


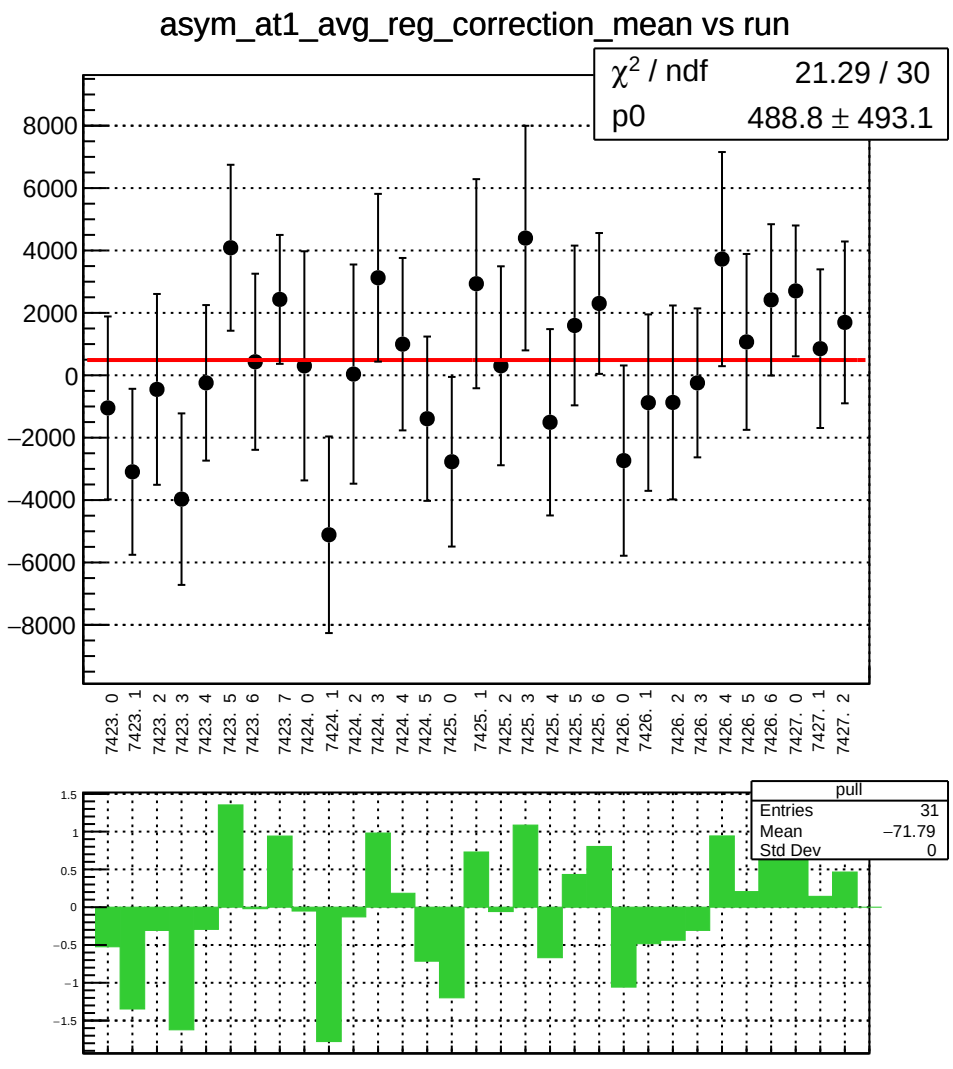


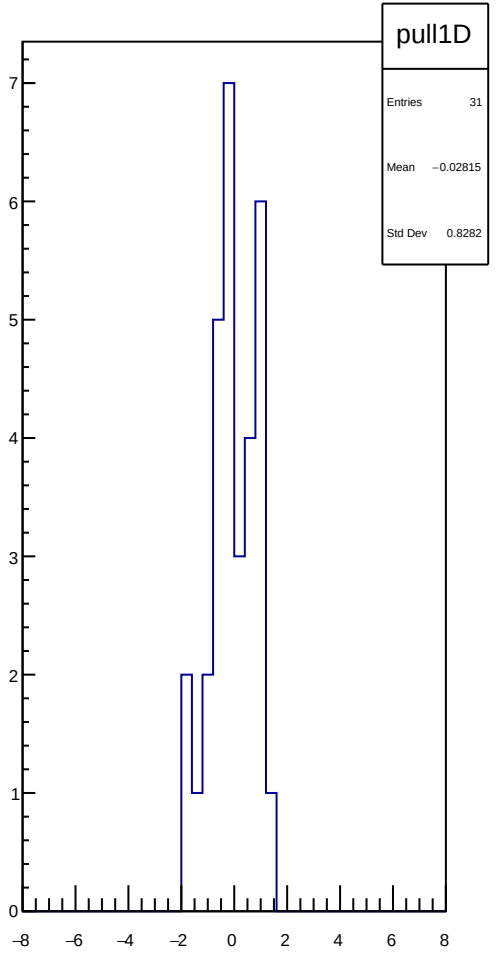


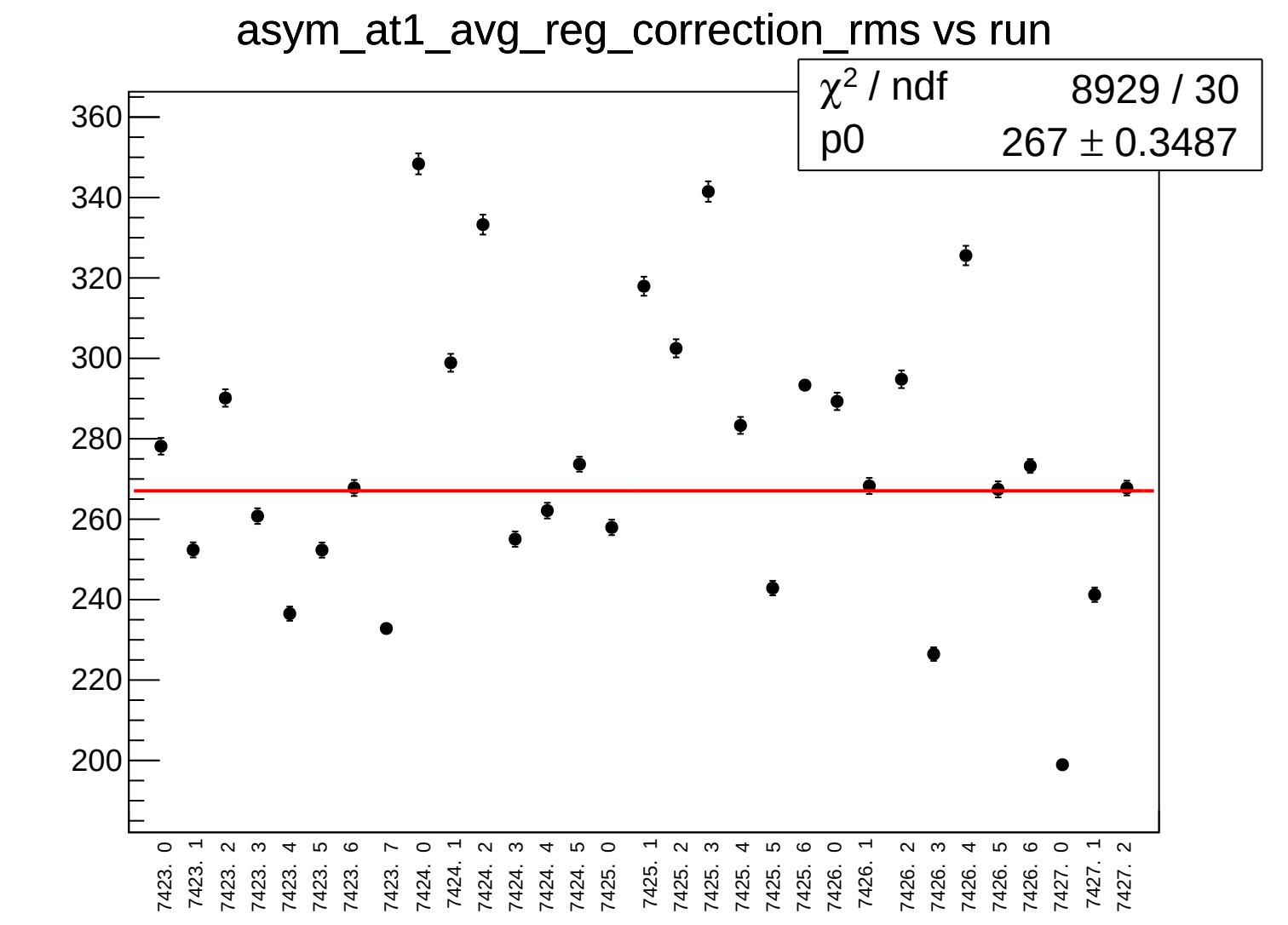

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.421e+05 / 30
p0 3.242e−11 ± 4.814e−14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

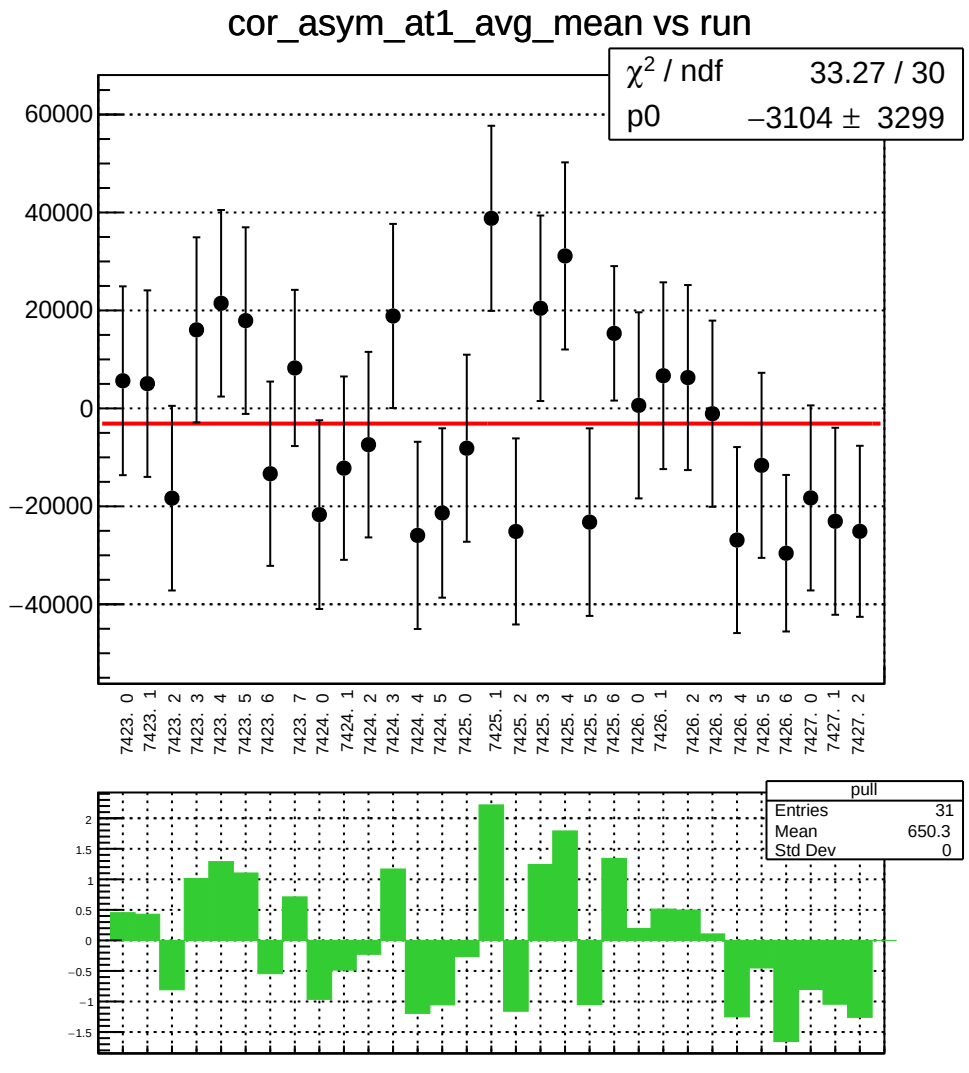

reg_asym_at1_avg_mean vs run
χ² / ndf 33.27 / 30
p0 −3102 ± 3299
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 651
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.004608
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

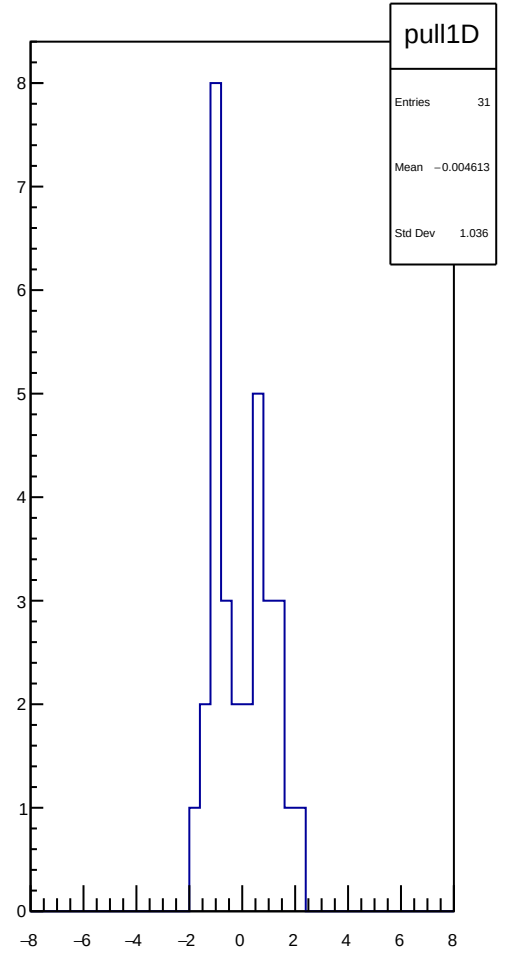

reg_asym_at1_avg_rms vs run
χ² / ndf 26.4 / 30
p0 1800 ± 2.333
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

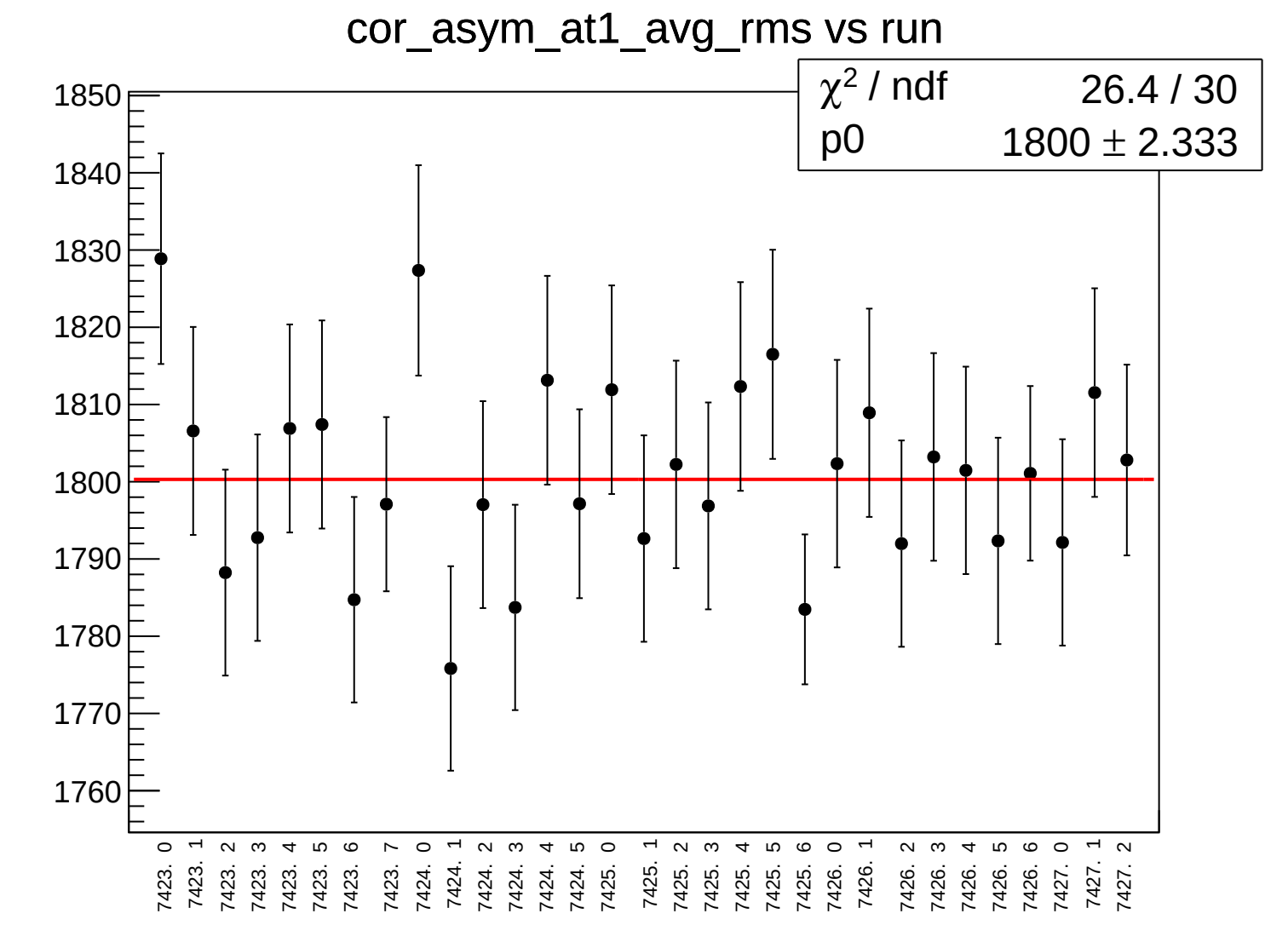

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 21.29 / 30
p0 488.8 ± 493.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −71.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

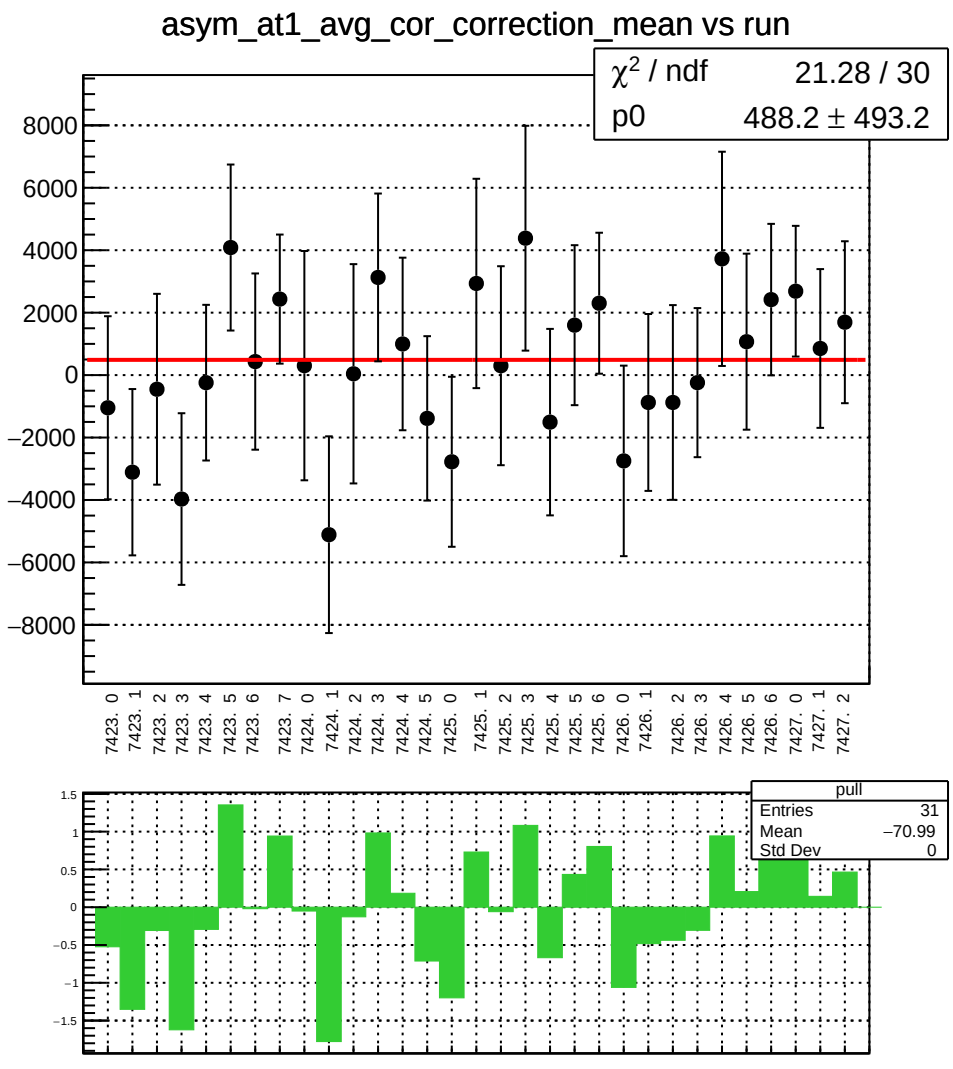

pull1D
Entries 31
Mean −0.02815
Std Dev 0.8282
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

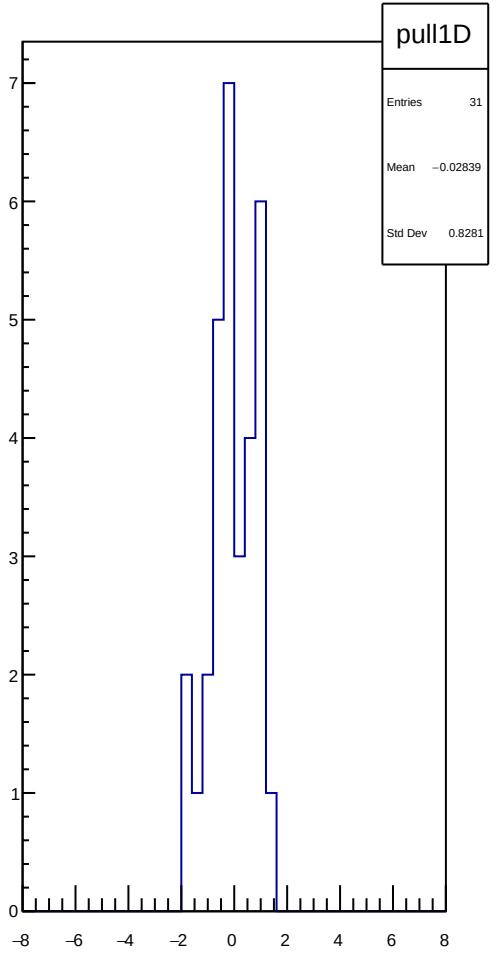

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 8929 / 30
p0 267 ± 0.3487
360
340
320
300
280
260
240
220
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

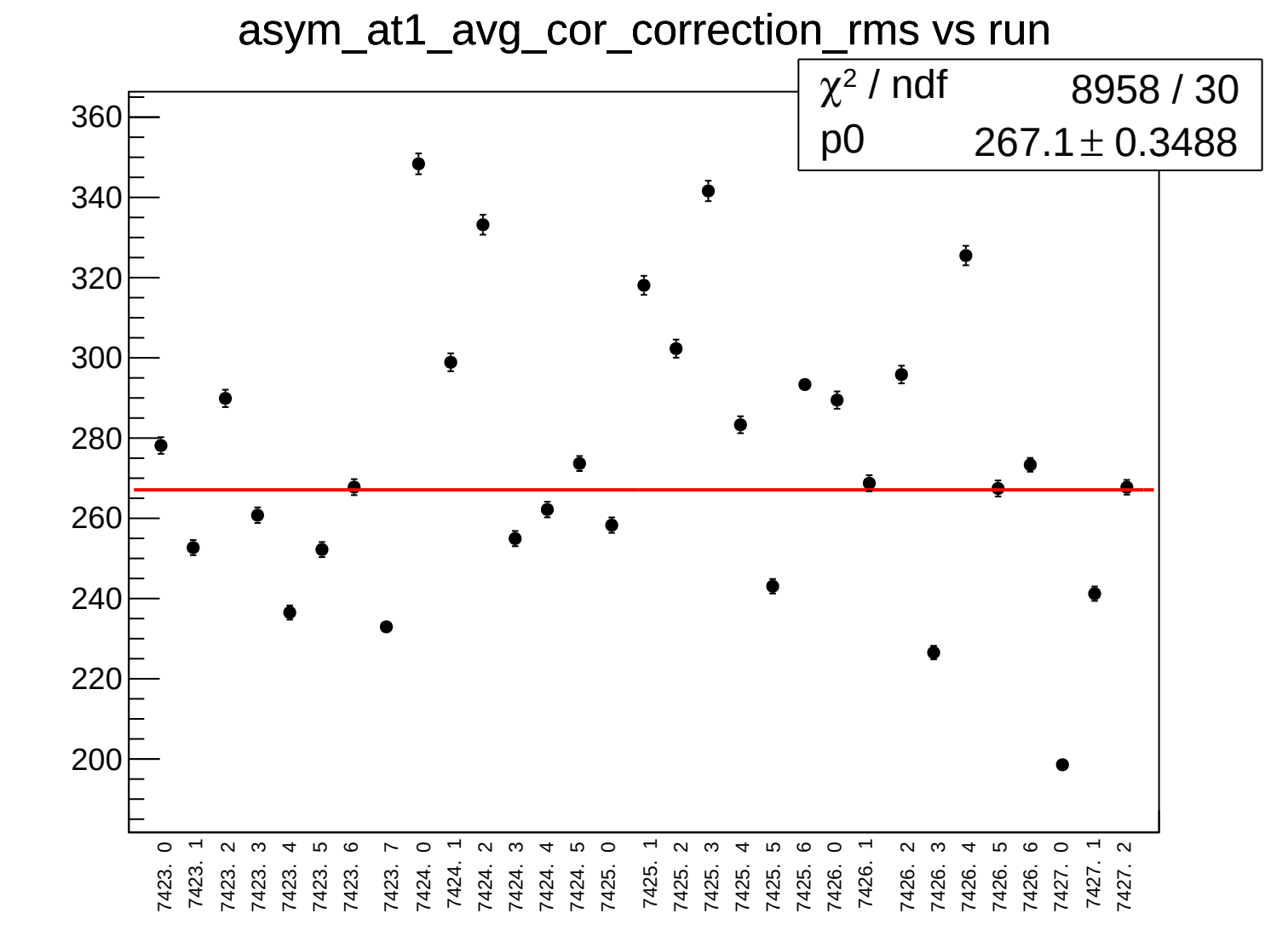

cor_asym_at1_avg_mean vs run
χ² / ndf 33.27 / 30
p0 −3104 ± 3299
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 650.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

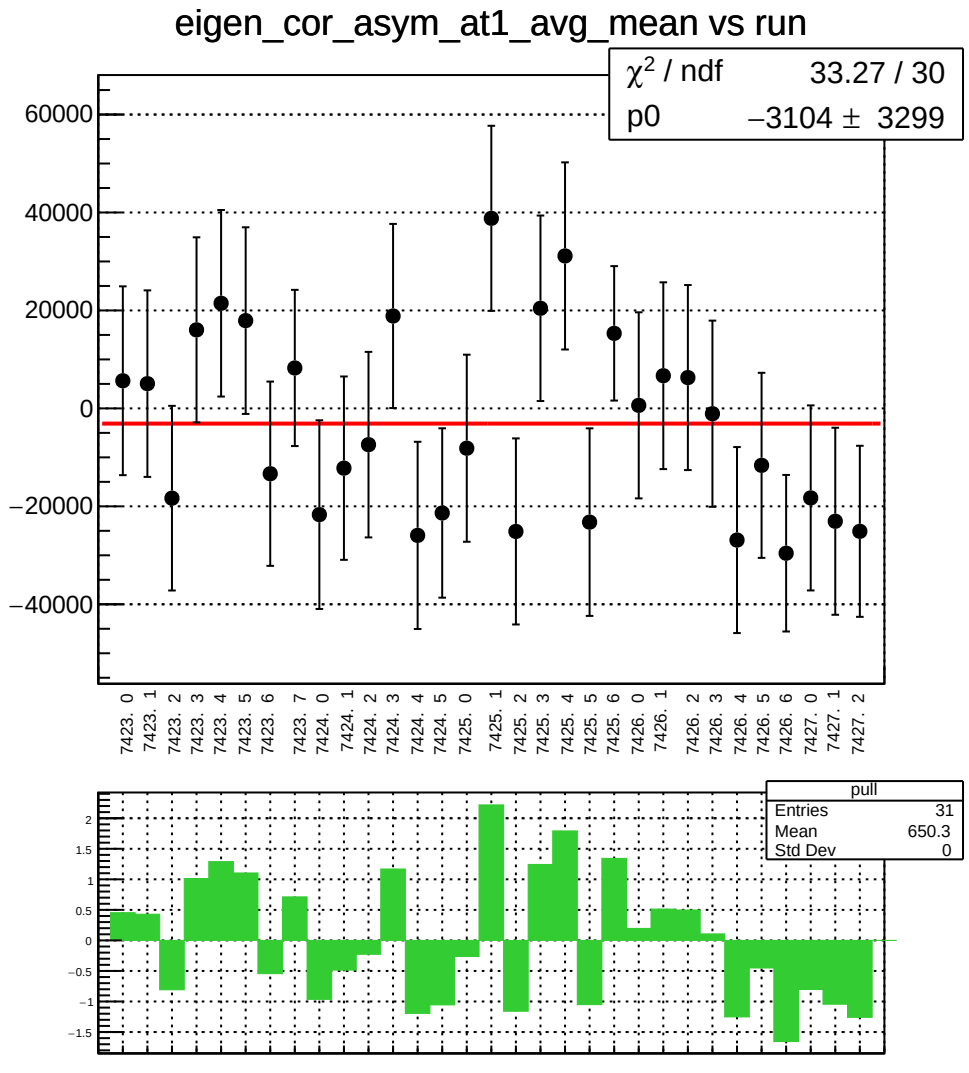

pull1D
Entries 31
Mean −0.004613
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

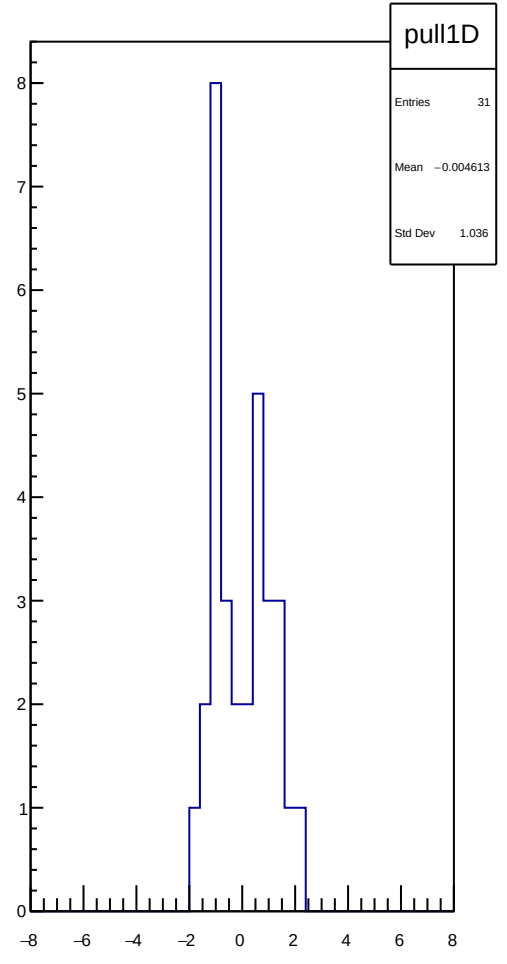

cor_asym_at1_avg_rms vs run
χ² / ndf 26.4 / 30
p0 1800 ± 2.333
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

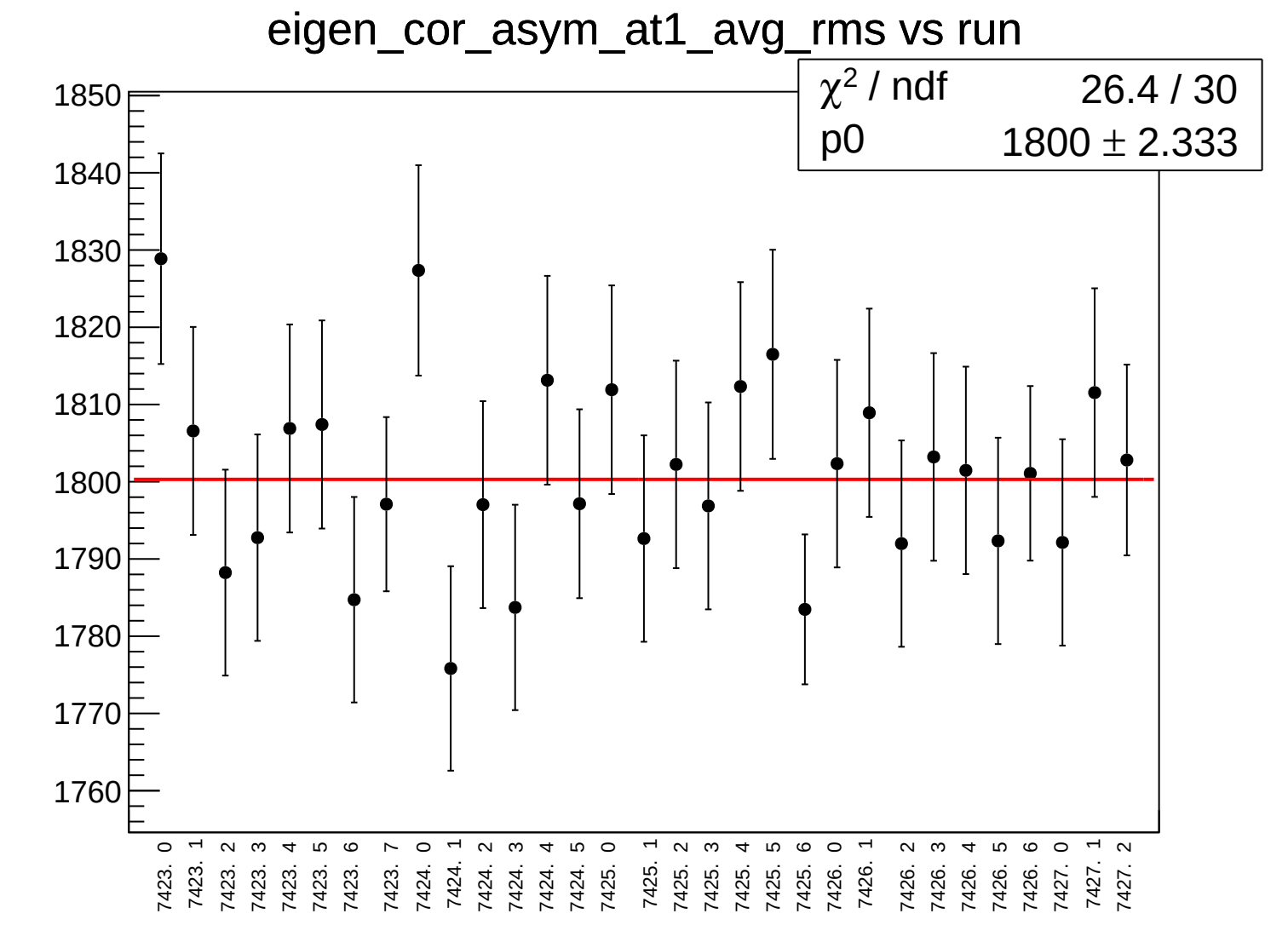

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 21.28 / 30
p0 488.2 ± 493.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −70.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

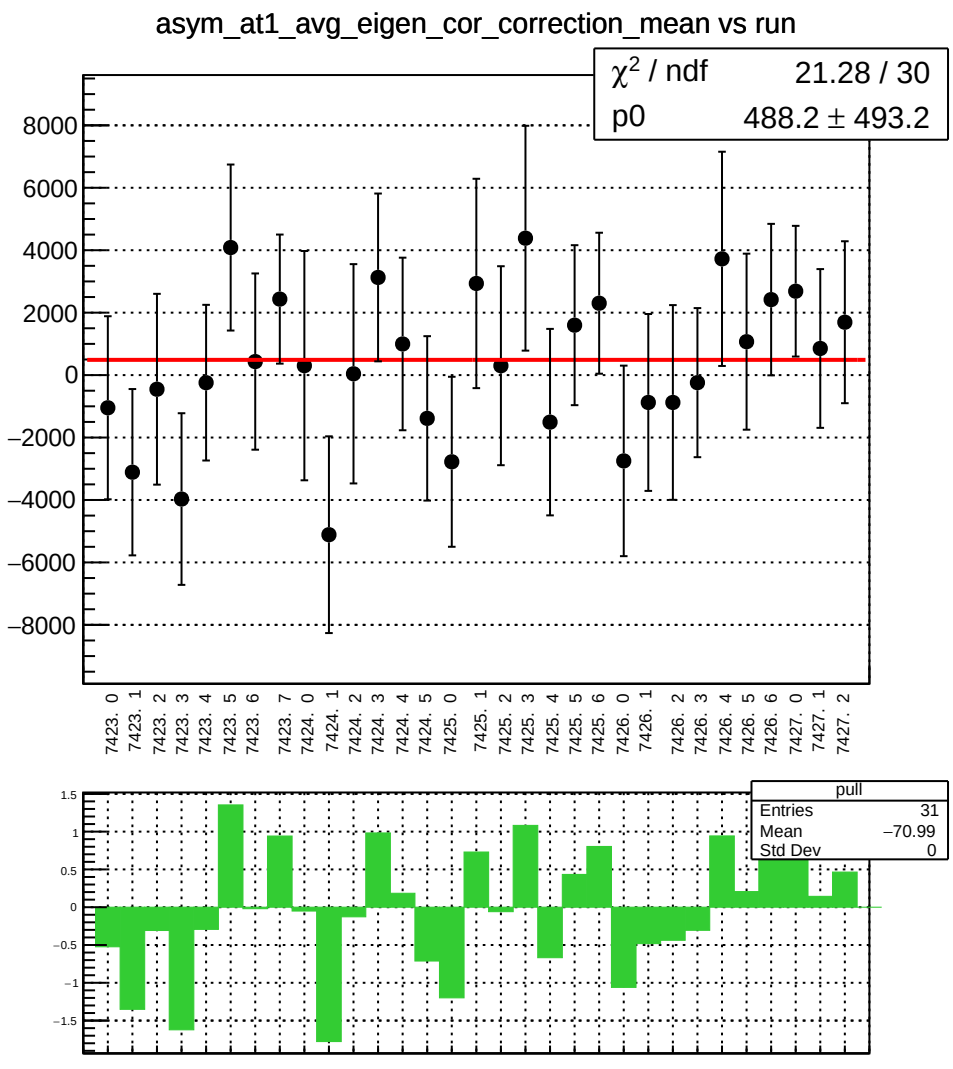

pull1D
Entries 31
Mean −0.02839
Std Dev 0.8281
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

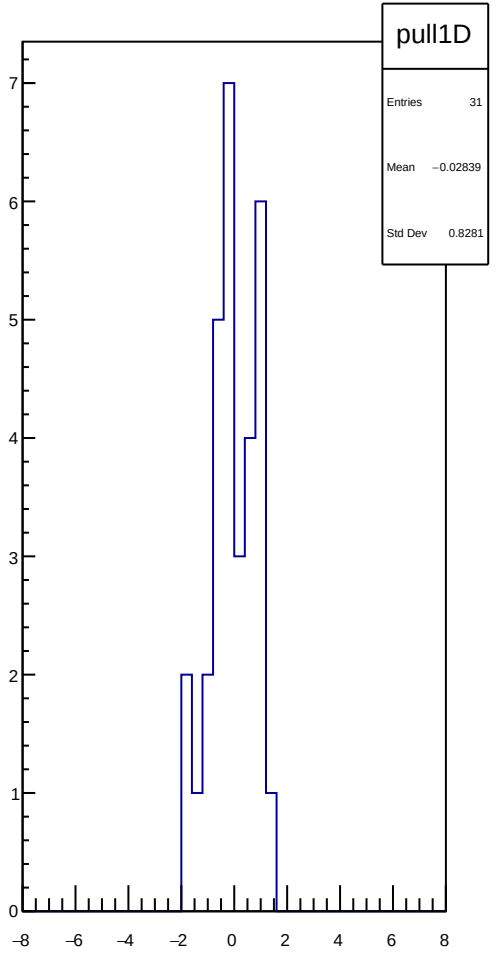

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 8958 / 30
p0 267.1 ± 0.3488
360
340
320
300
280
260
240
220
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

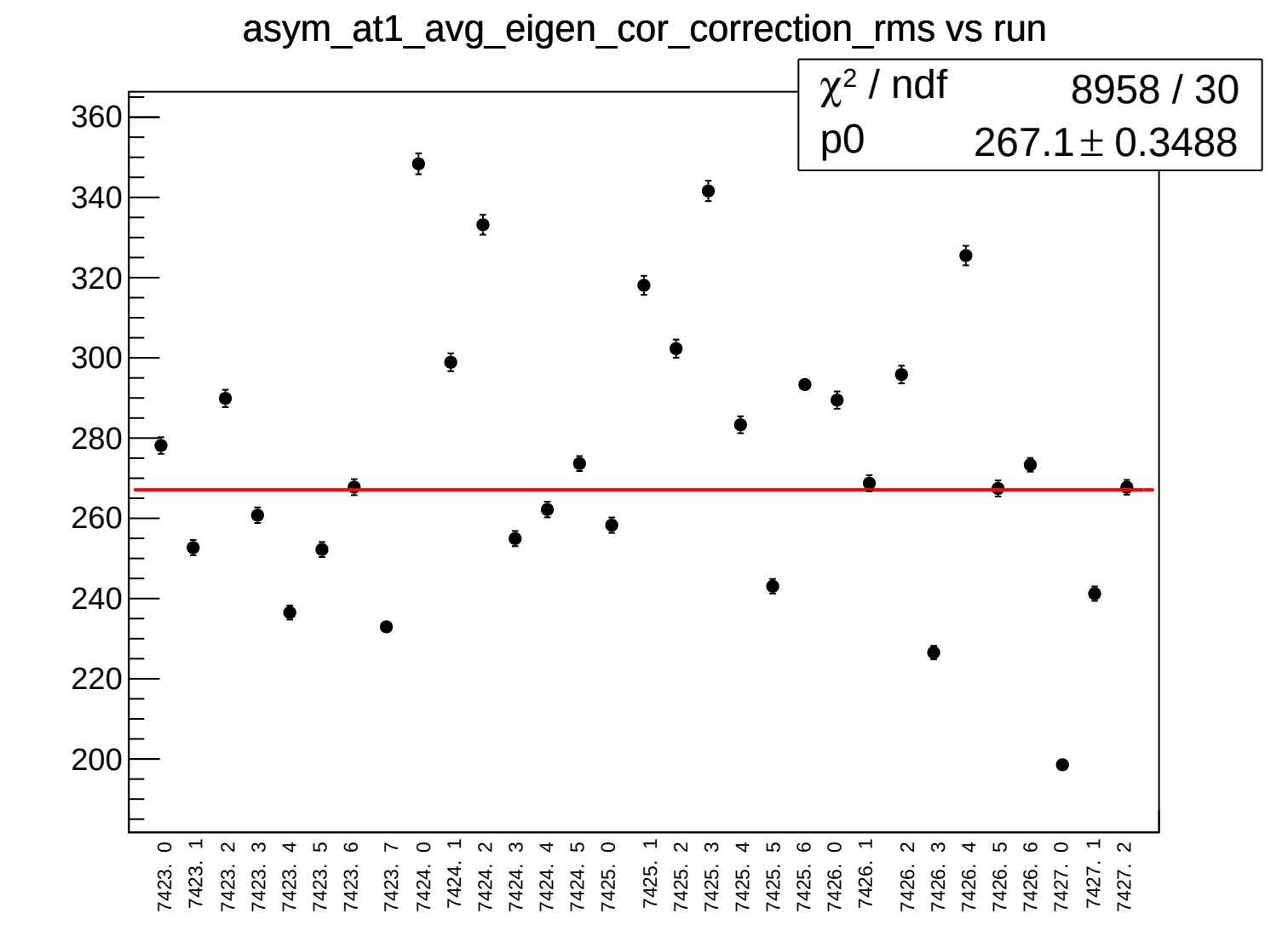

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 33.27 / 30
p0 −3104 ± 3299
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 650.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

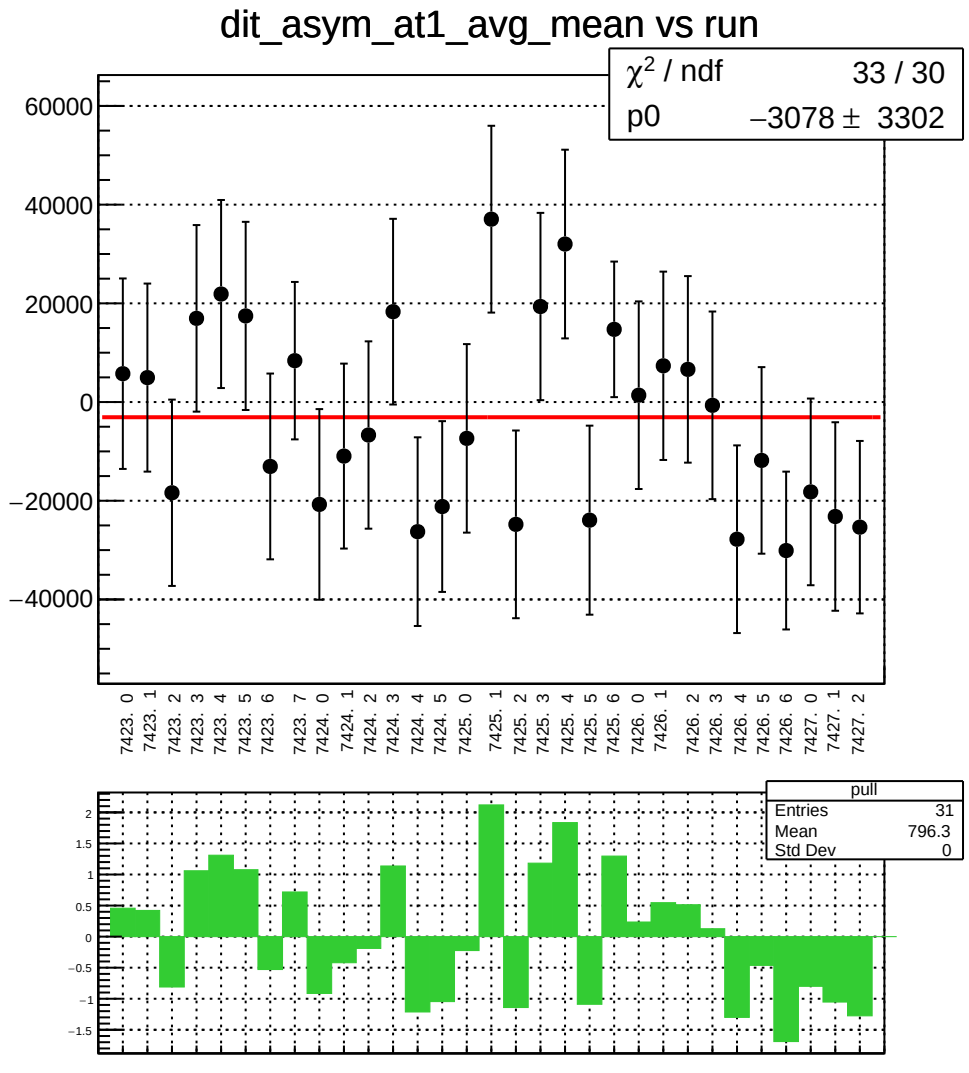

pull1D
Entries 31
Mean −0.004613
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

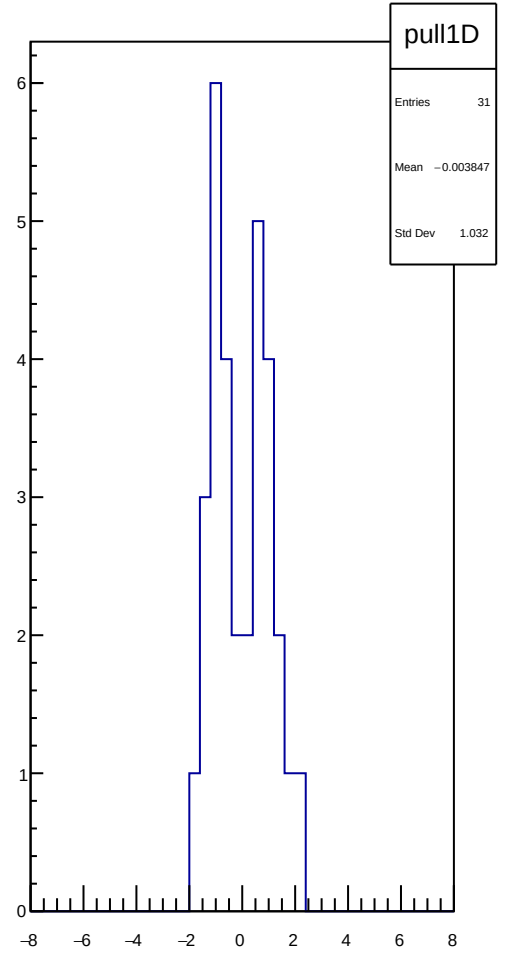

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 26.4 / 30
p0 1800 ± 2.333
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

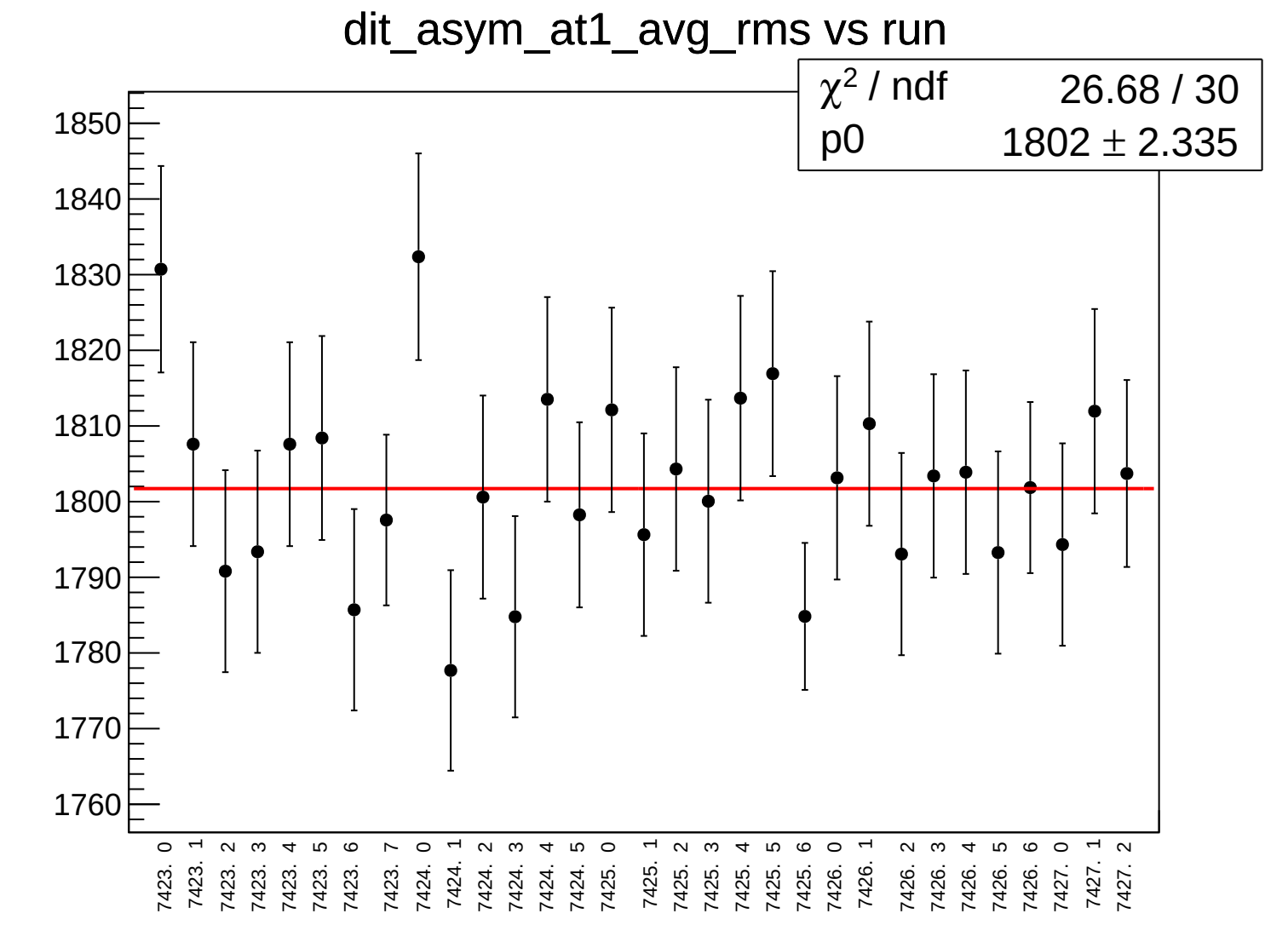

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 21.28 / 30
p0 488.2 ± 493.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −70.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

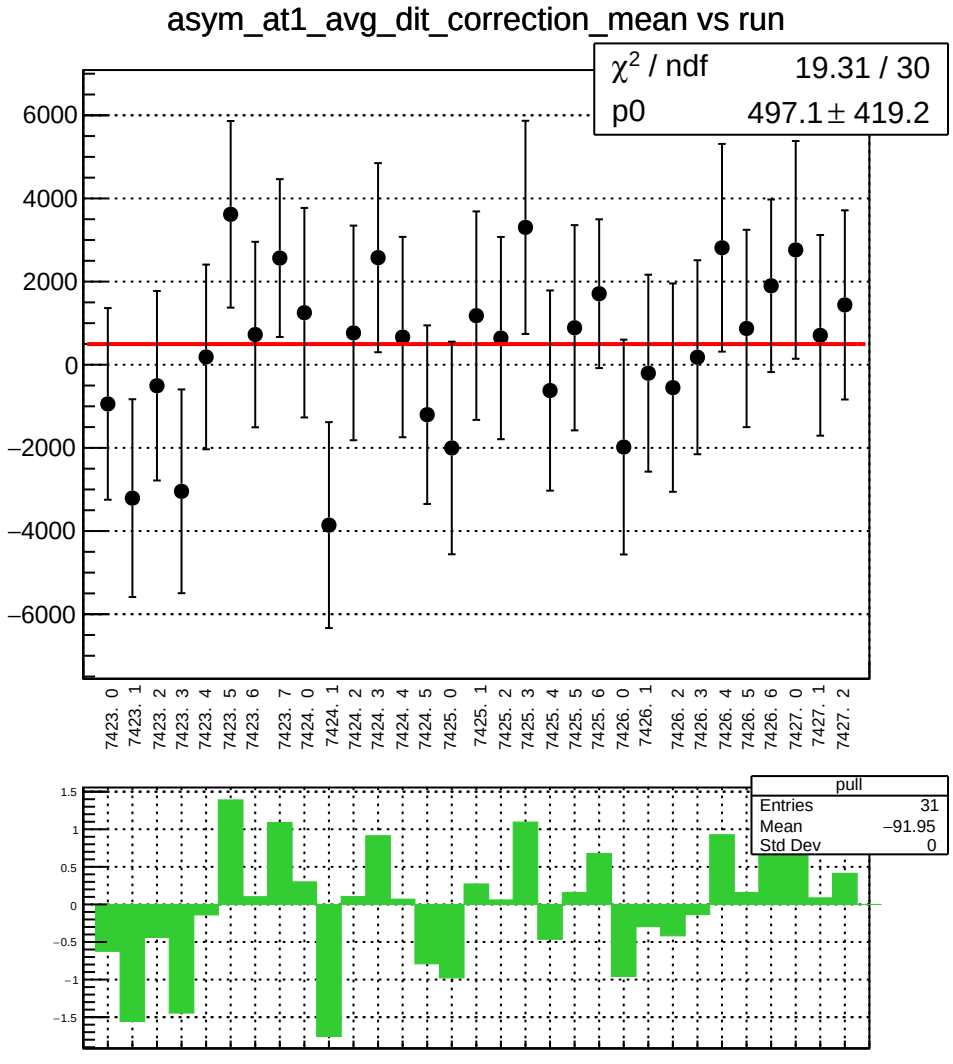

pull1D
Entries 31
Mean −0.02839
Std Dev 0.8281
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

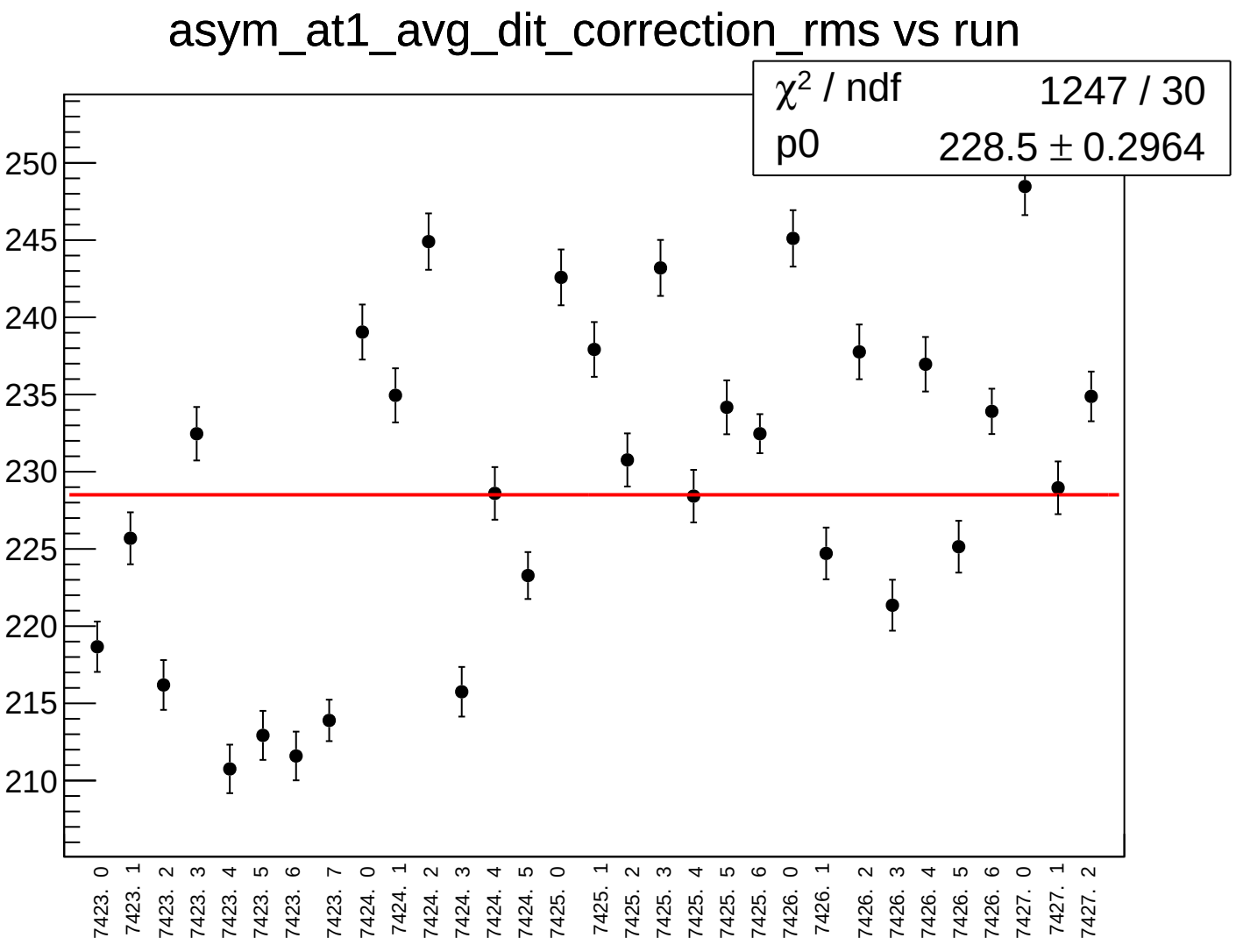

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8958 / 30
p0 267.1 ± 0.3488
360
340
320
300
280
260
240
220
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

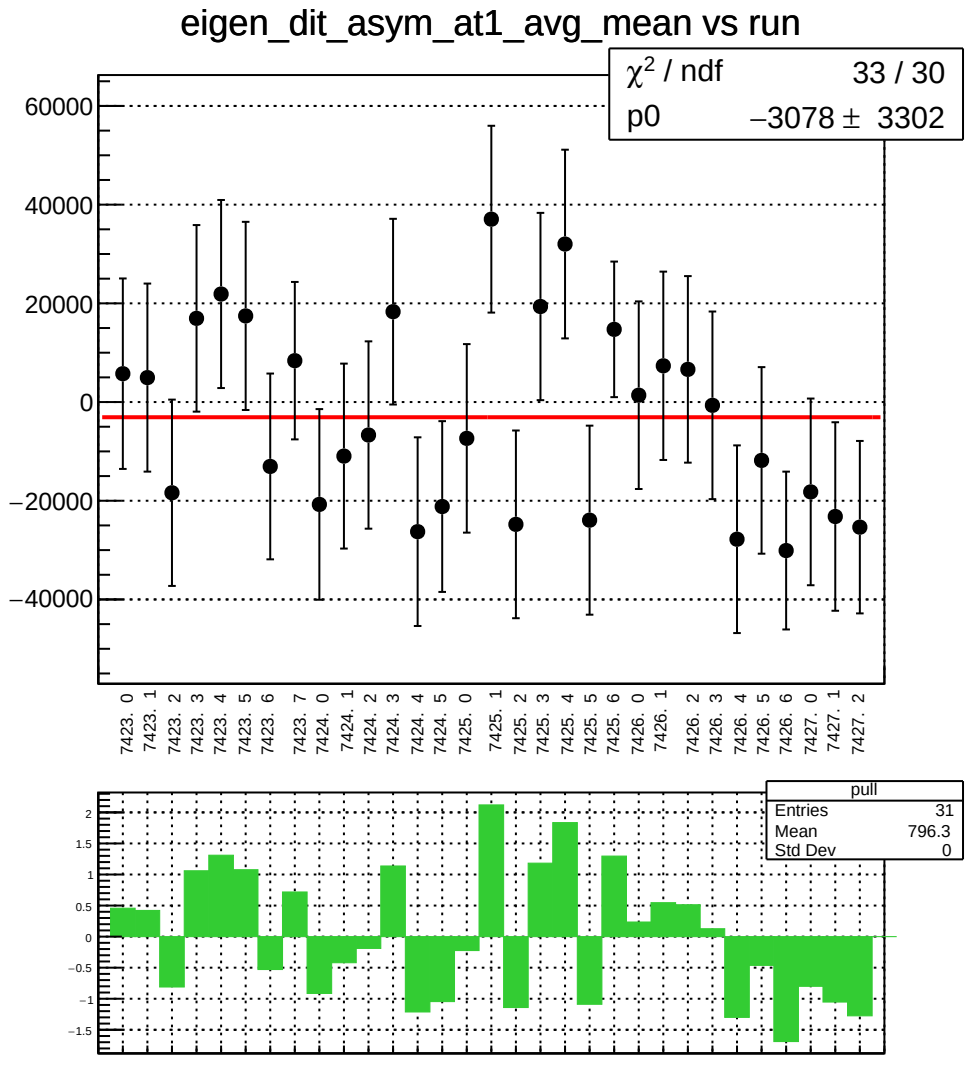

dit_asym_at1_avg_mean vs run
χ² / ndf 33 / 30
p0 −3078 ± 3302
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 796.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

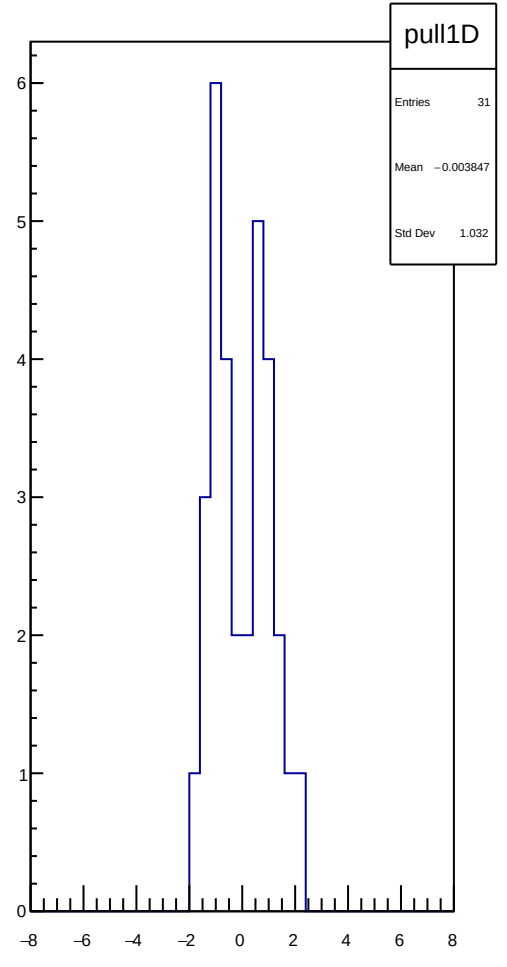

pull1D
Entries 31
Mean −0.003847
Std Dev 1.032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

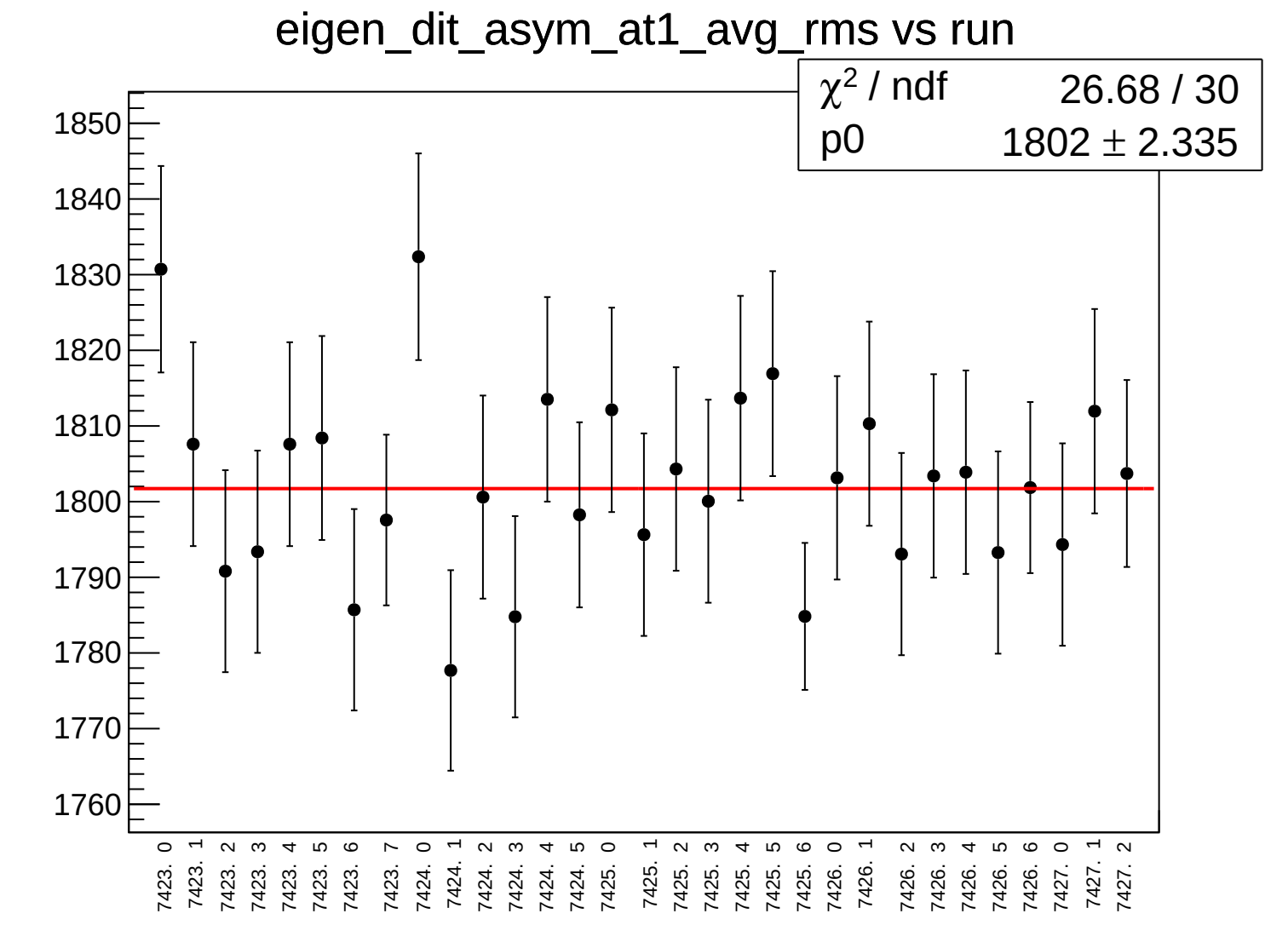

dit_asym_at1_avg_rms vs run
χ² / ndf 26.68 / 30
p0 1802 ± 2.335
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

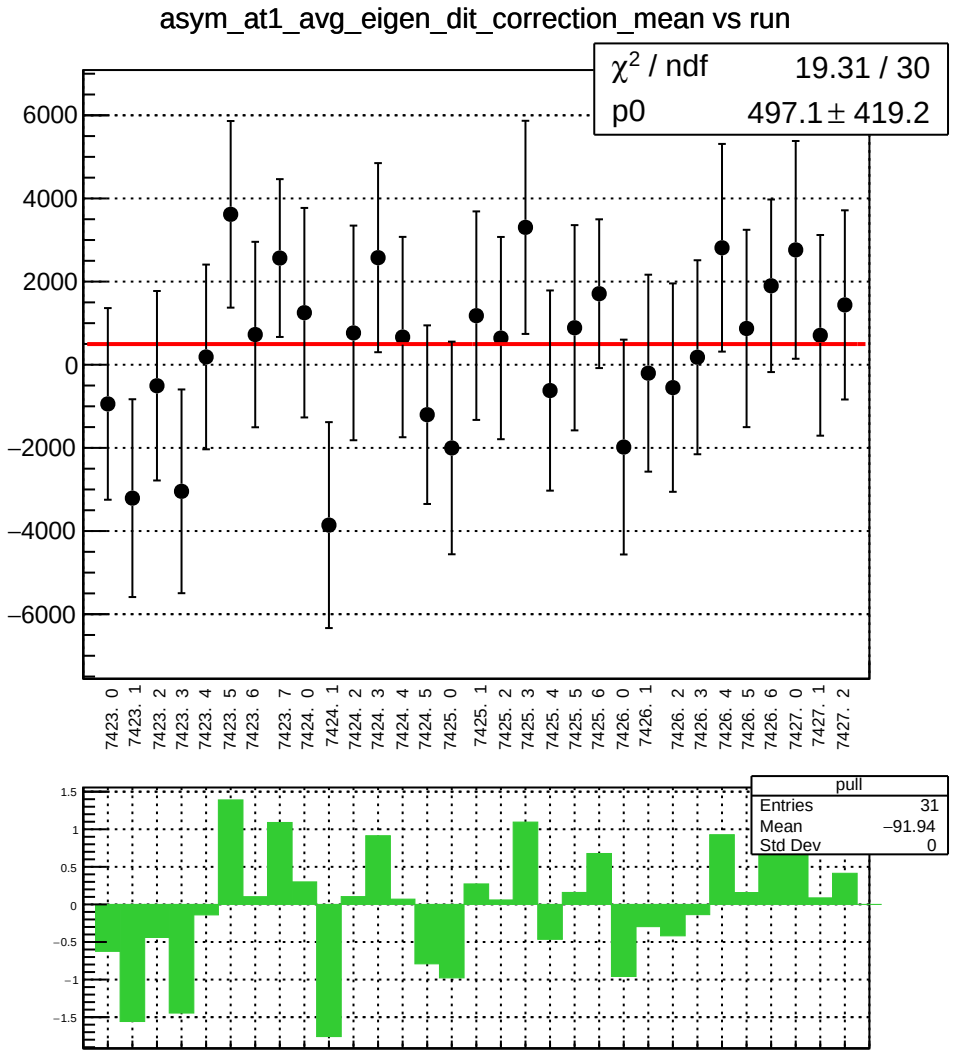

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 19.31 / 30
p0 497.1 ± 419.2
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −91.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.02076
Std Dev 0.7889
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

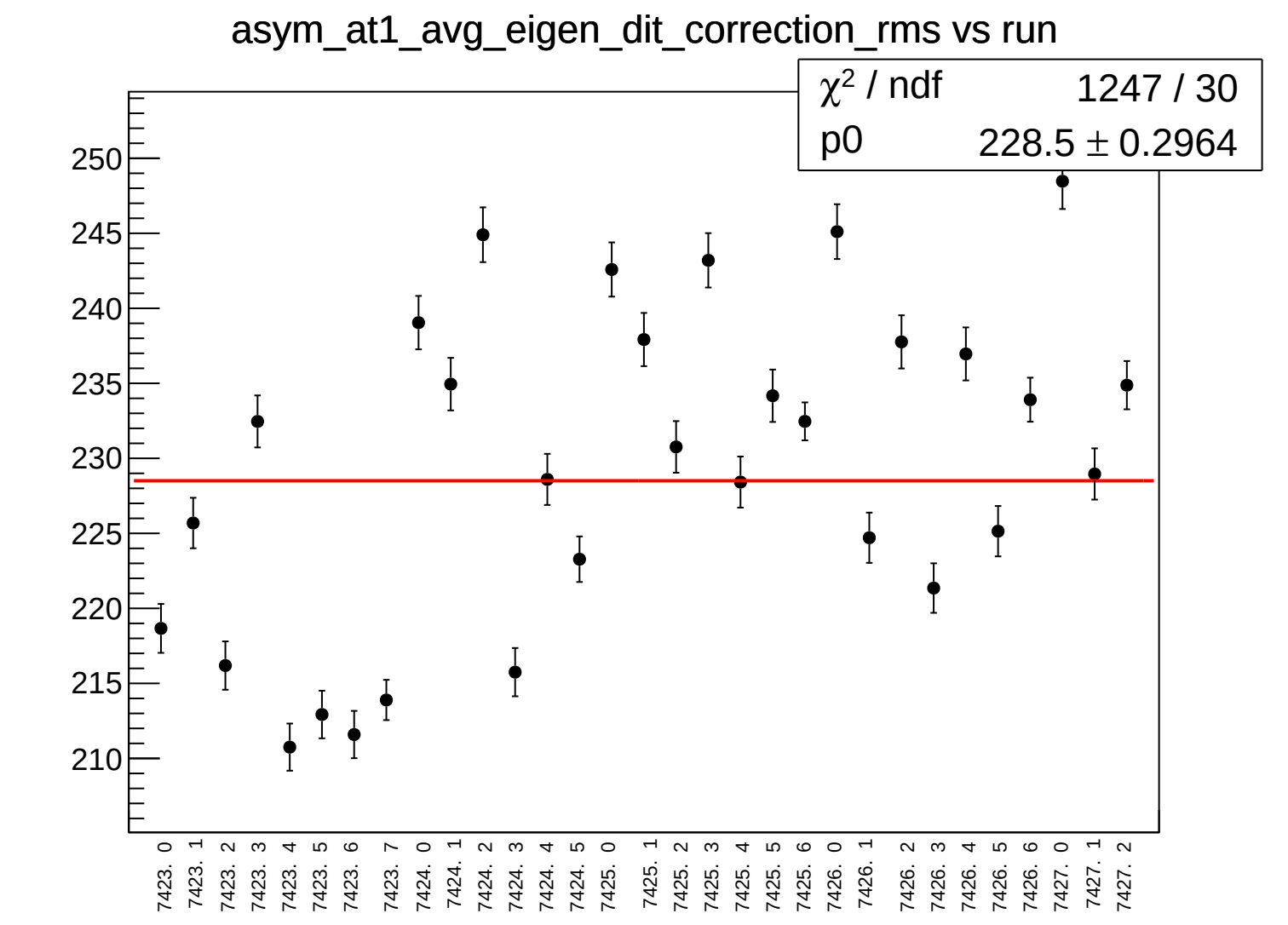

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1247 / 30
p0 228.5 ± 0.2964
250
245
240
235
230
225
220
215
210
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

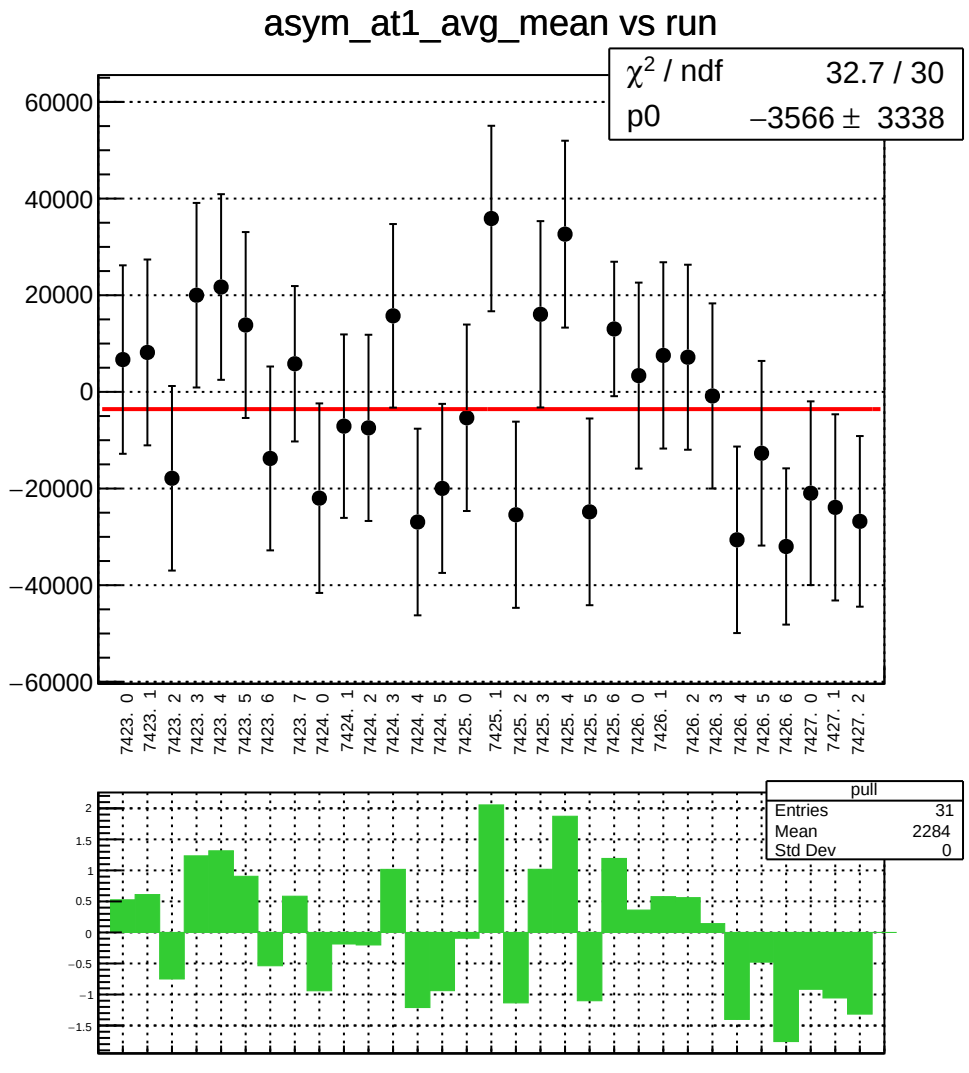

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 33 / 30
p0 −3078 ± 3302
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 796.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

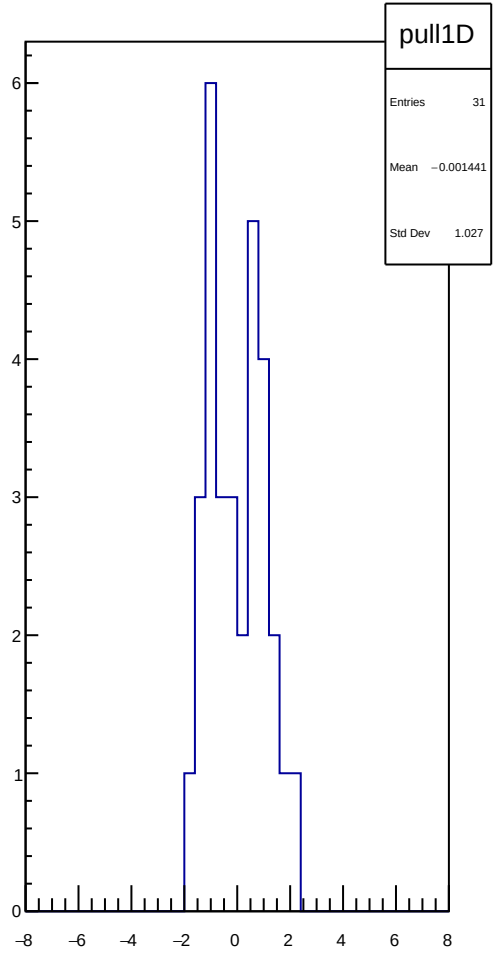

pull1D
Entries 31
Mean −0.003847
Std Dev 1.032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

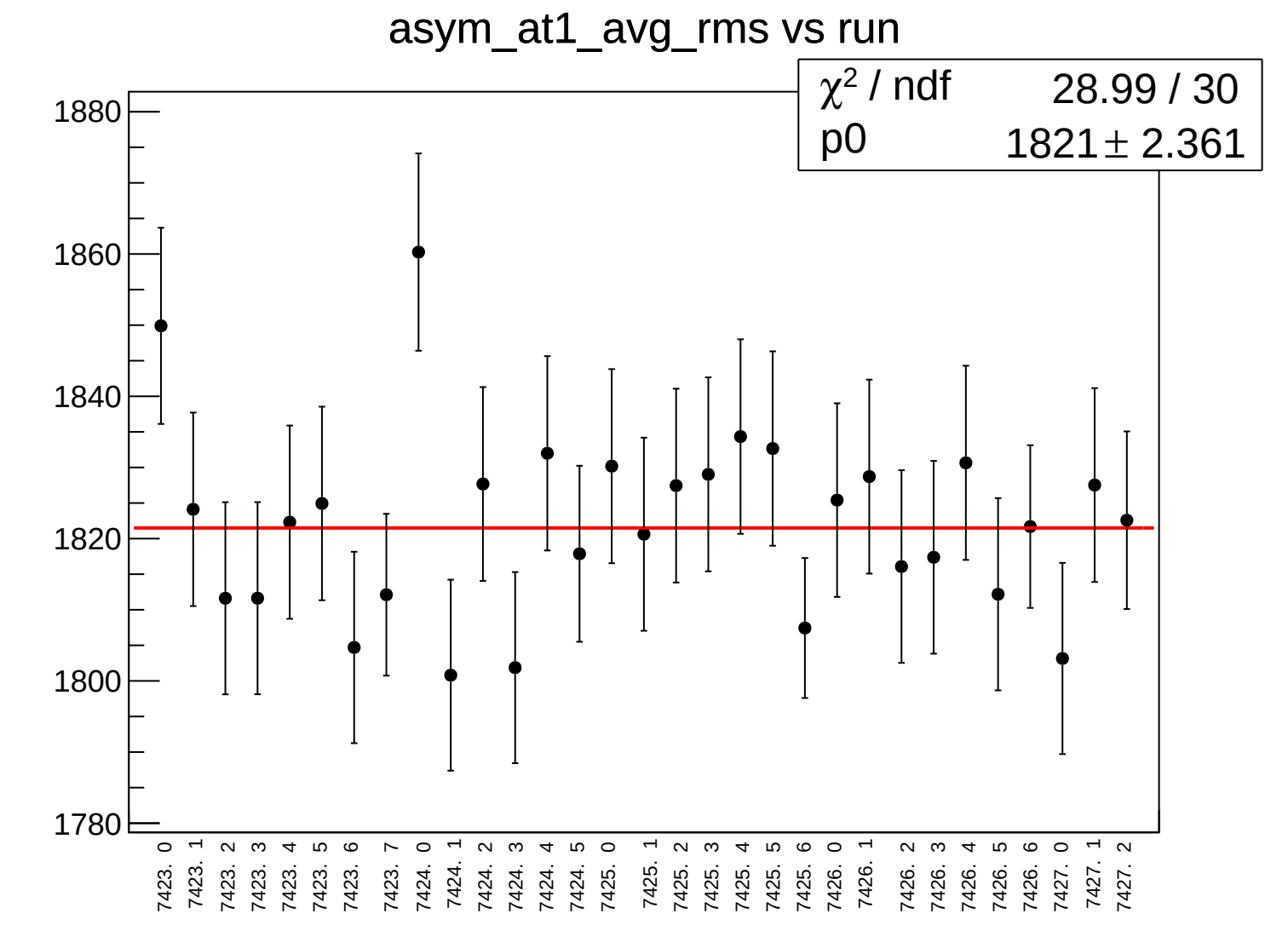

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 26.68 / 30
p0 1802 ± 2.335
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

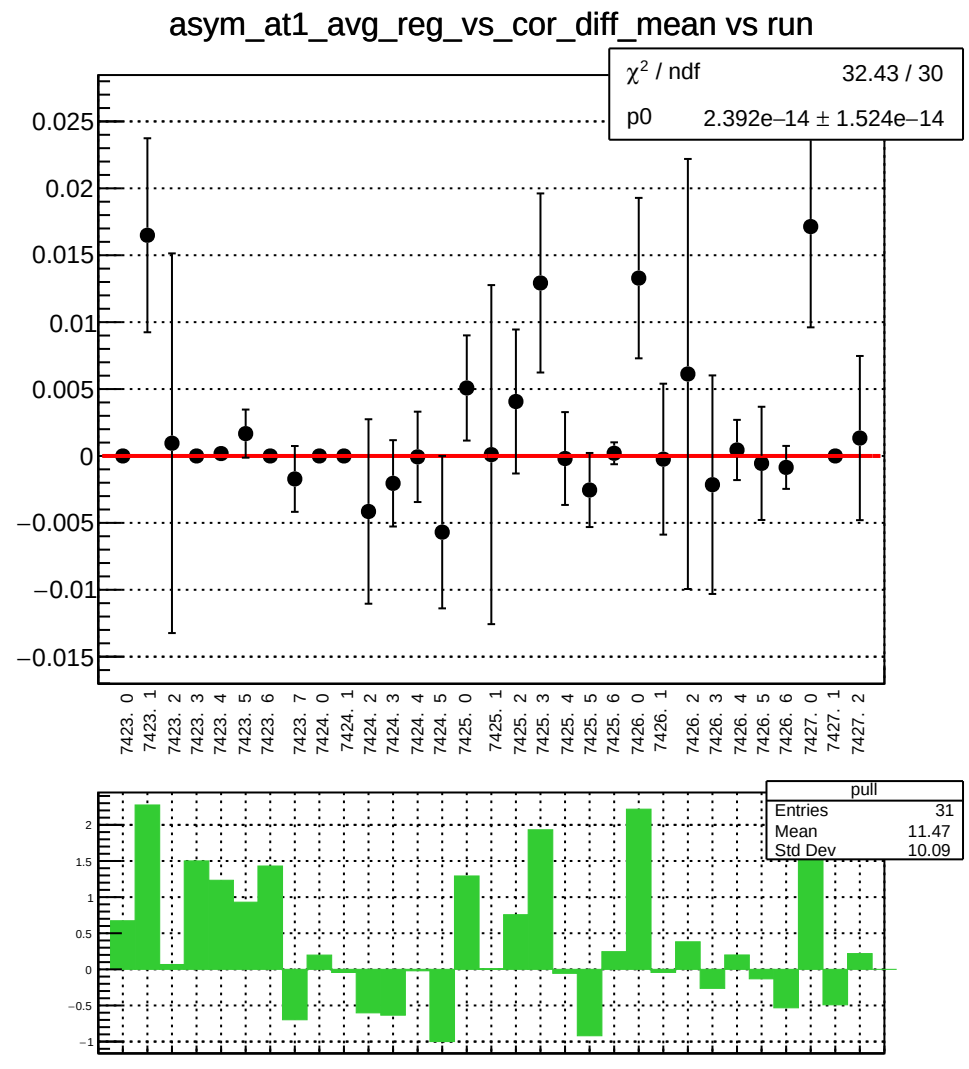

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 19.31 / 30
p0 497.1 ± 419.2
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −91.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.02076
Std Dev 0.7889
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

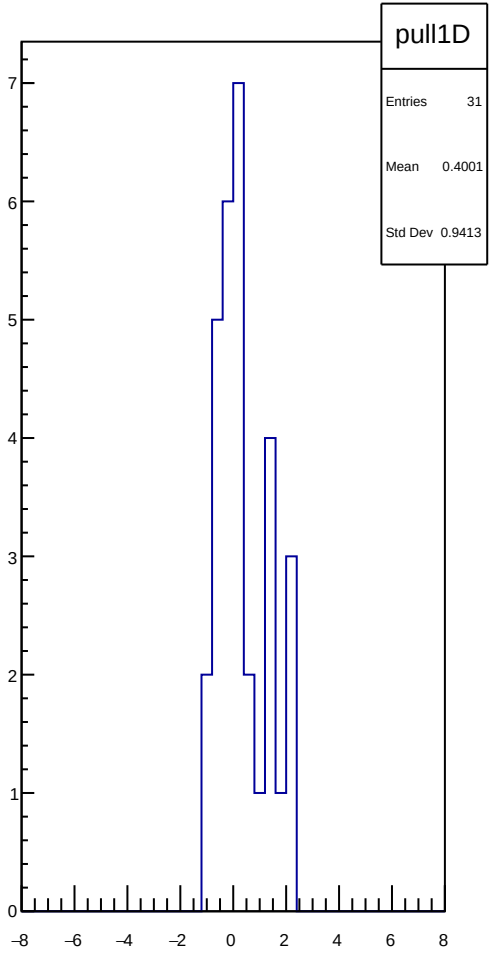

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1247 / 30
p0 228.5 ± 0.2964
250
245
240
235
230
225
220
215
210
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

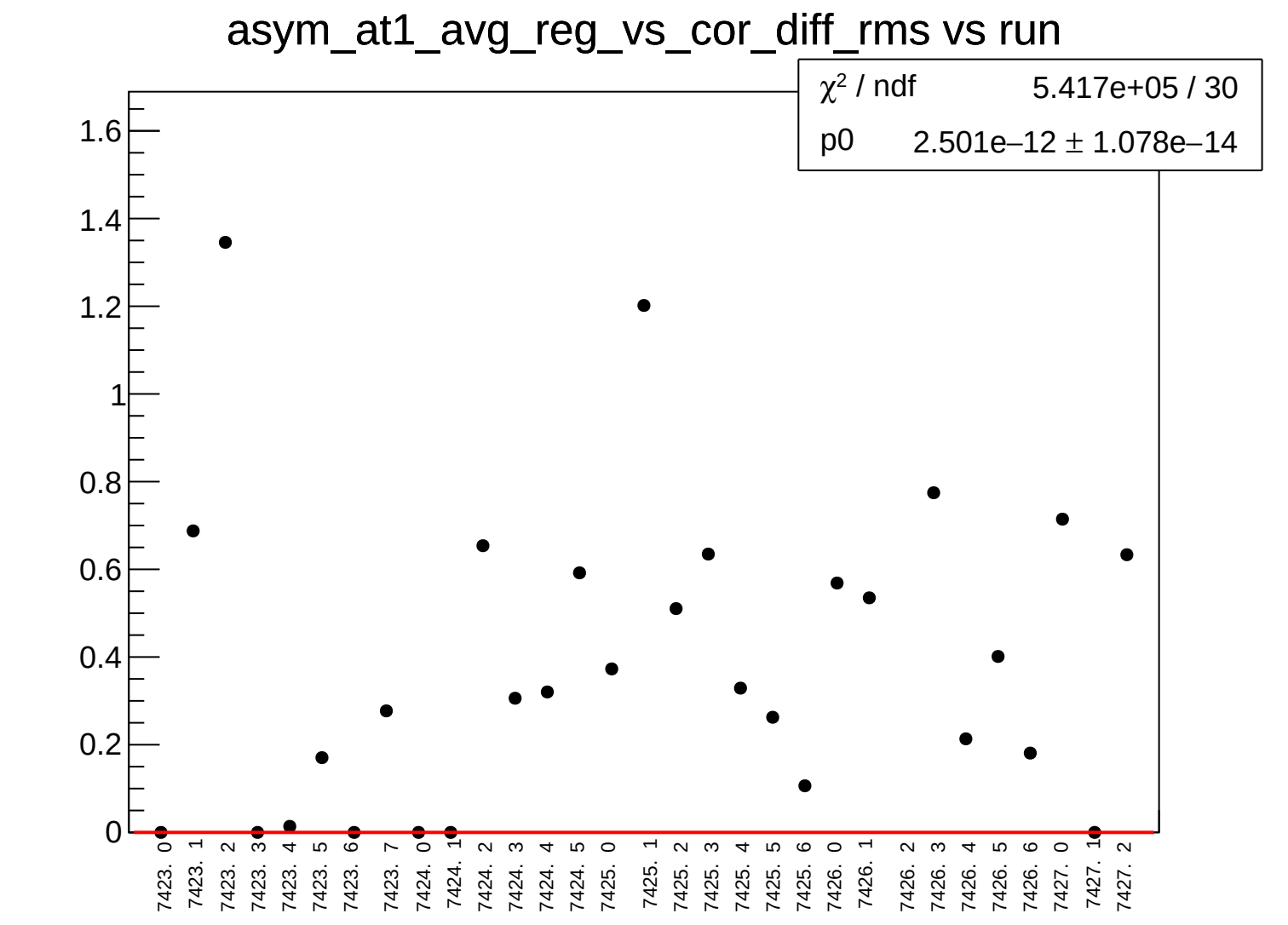

asym_at1_avg_mean vs run
χ² / ndf 32.7 / 30
p0 −3566 ± 3338
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 2284
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

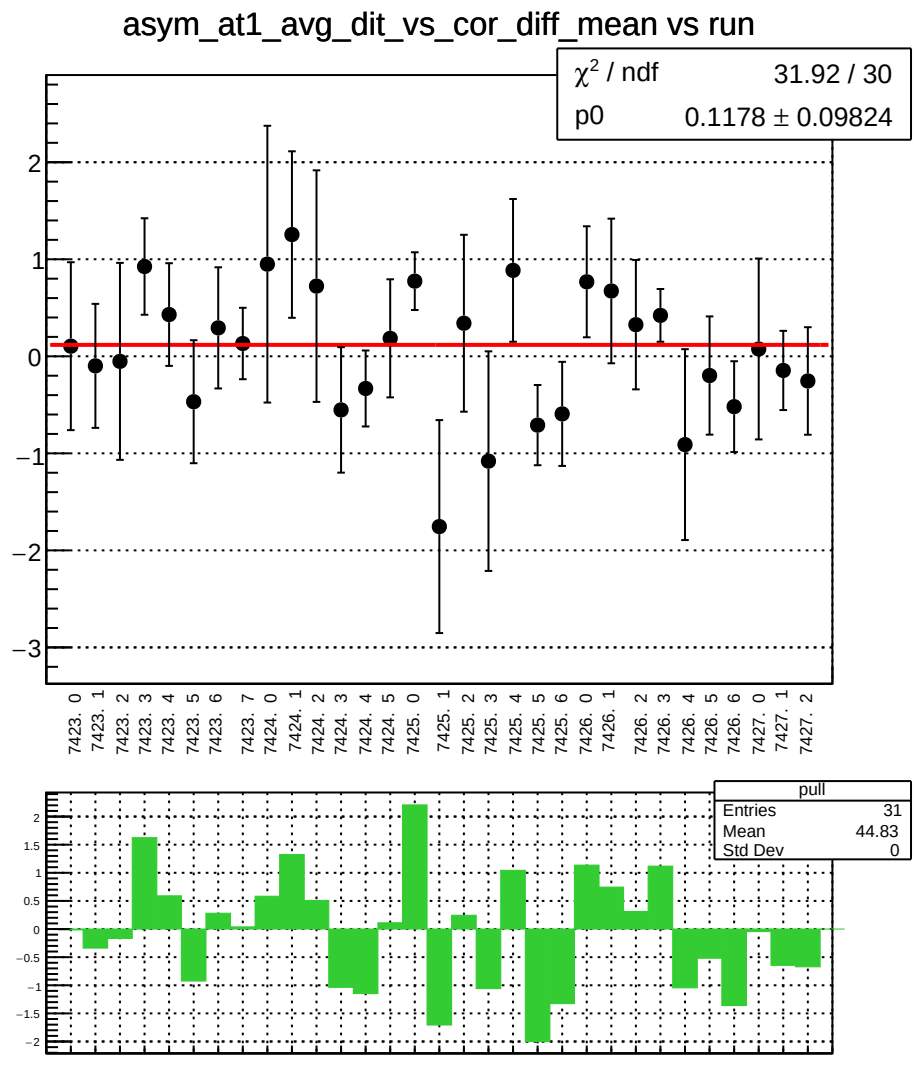

pull1D
Entries 31
Mean −0.001441
Std Dev 1.027
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

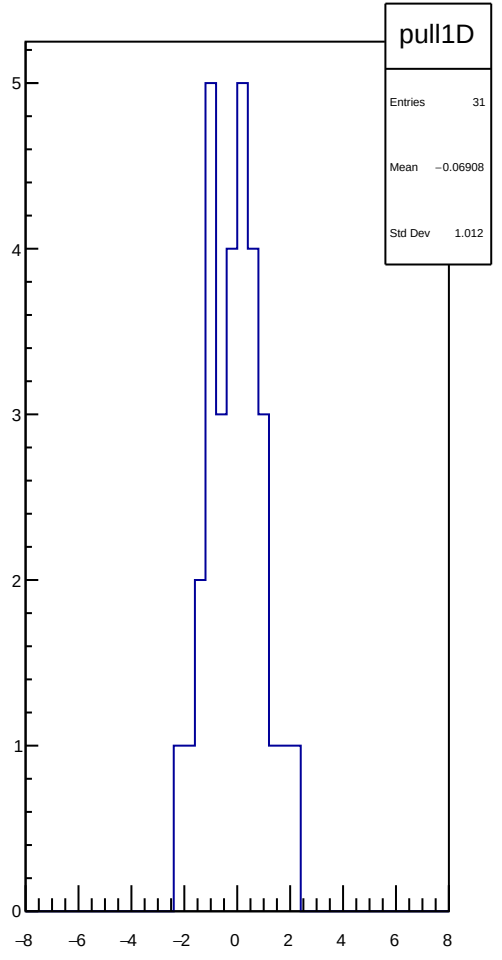

asym_at1_avg_rms vs run
χ² / ndf 28.99 / 30
p0 1821 ± 2.361
1880
1860
1840
1820
1800
1780
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

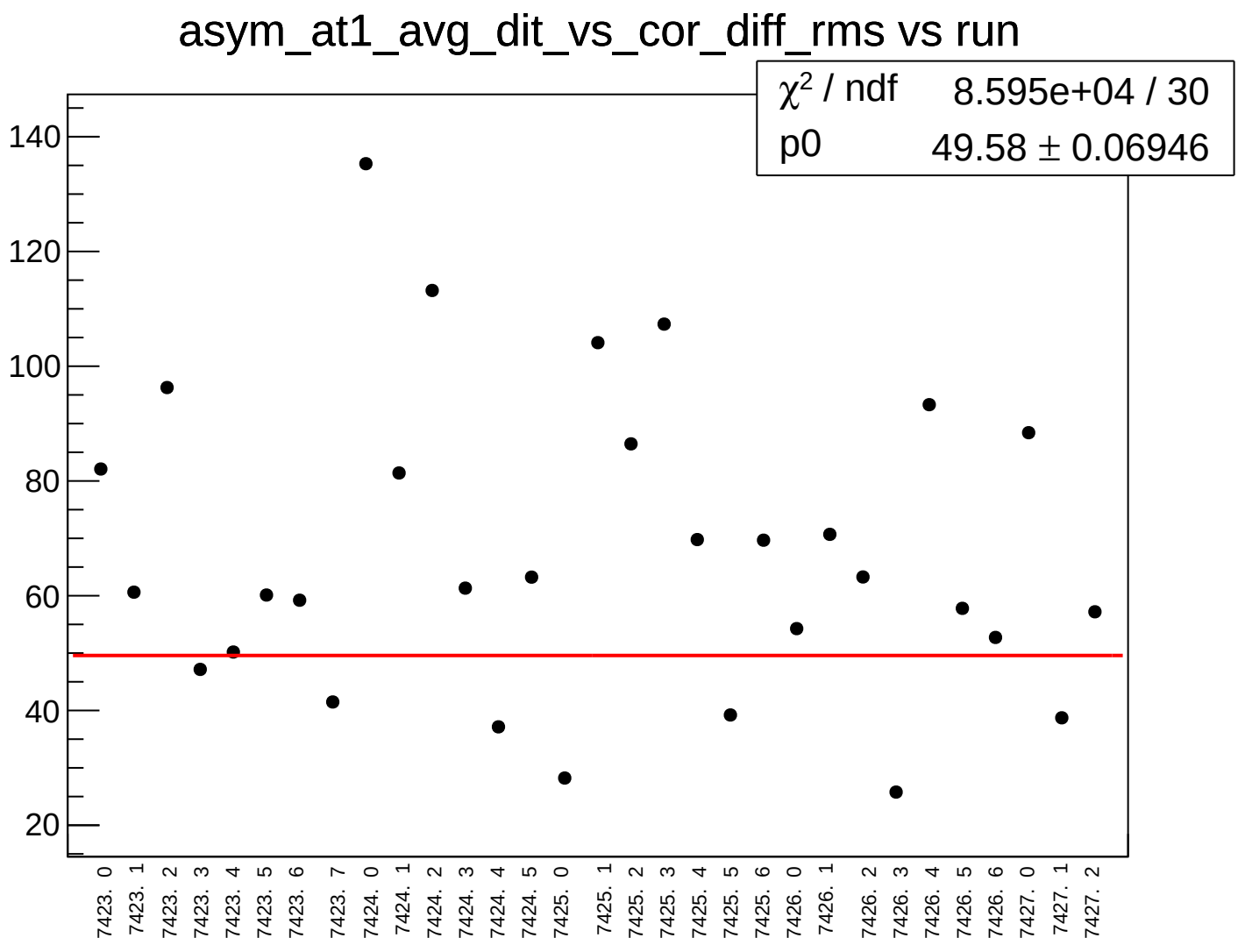

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 32.43 / 30
p0 2.392e−14 ± 1.524e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.47
Std Dev 10.09
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 31
Mean 0.4001
Std Dev 0.9413
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

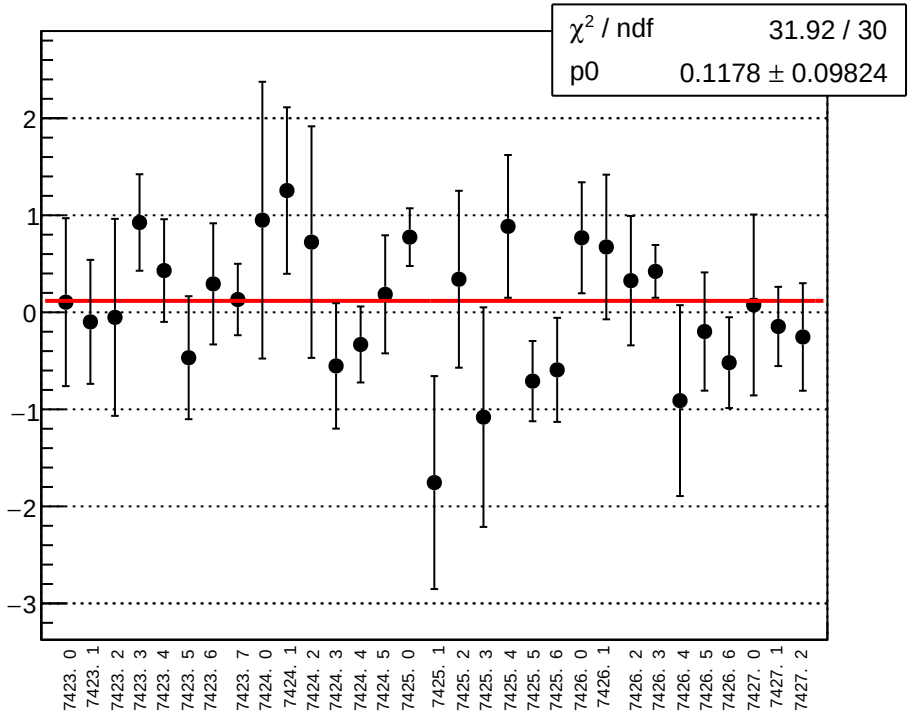

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.417e+05 / 30
p0 2.501e−12 ± 1.078e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

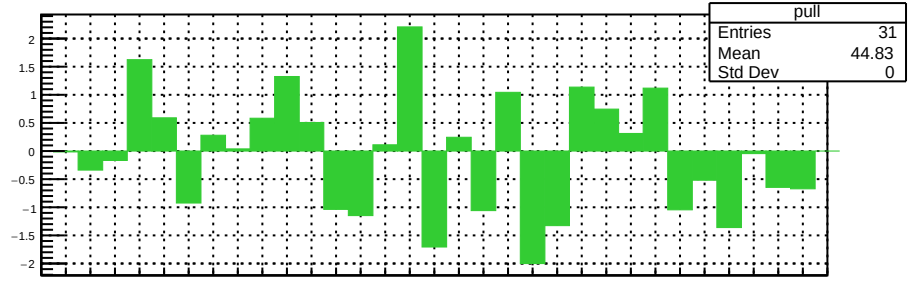

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.92 / 30
p0 0.1178 ± 0.09824
pull
Entries 31
Mean 44.83
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

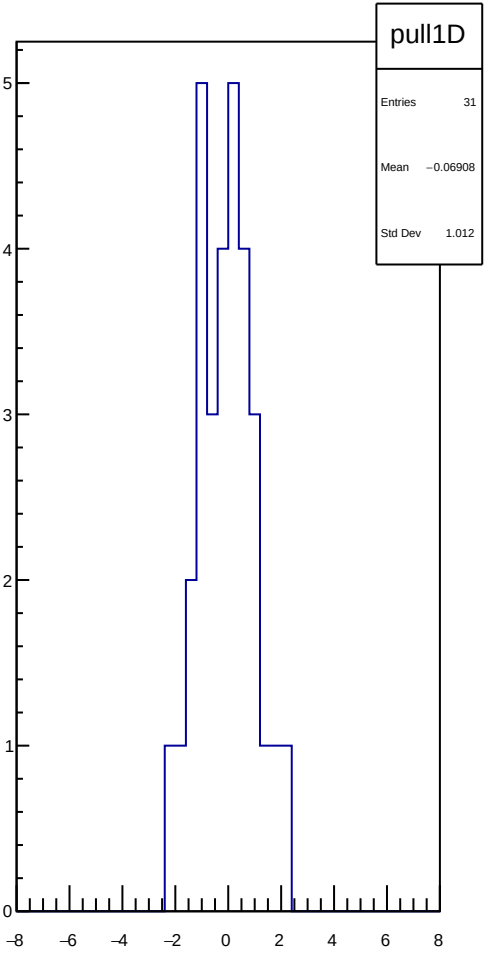

pull1D
Entries 31
Mean −0.06908
Std Dev 1.012

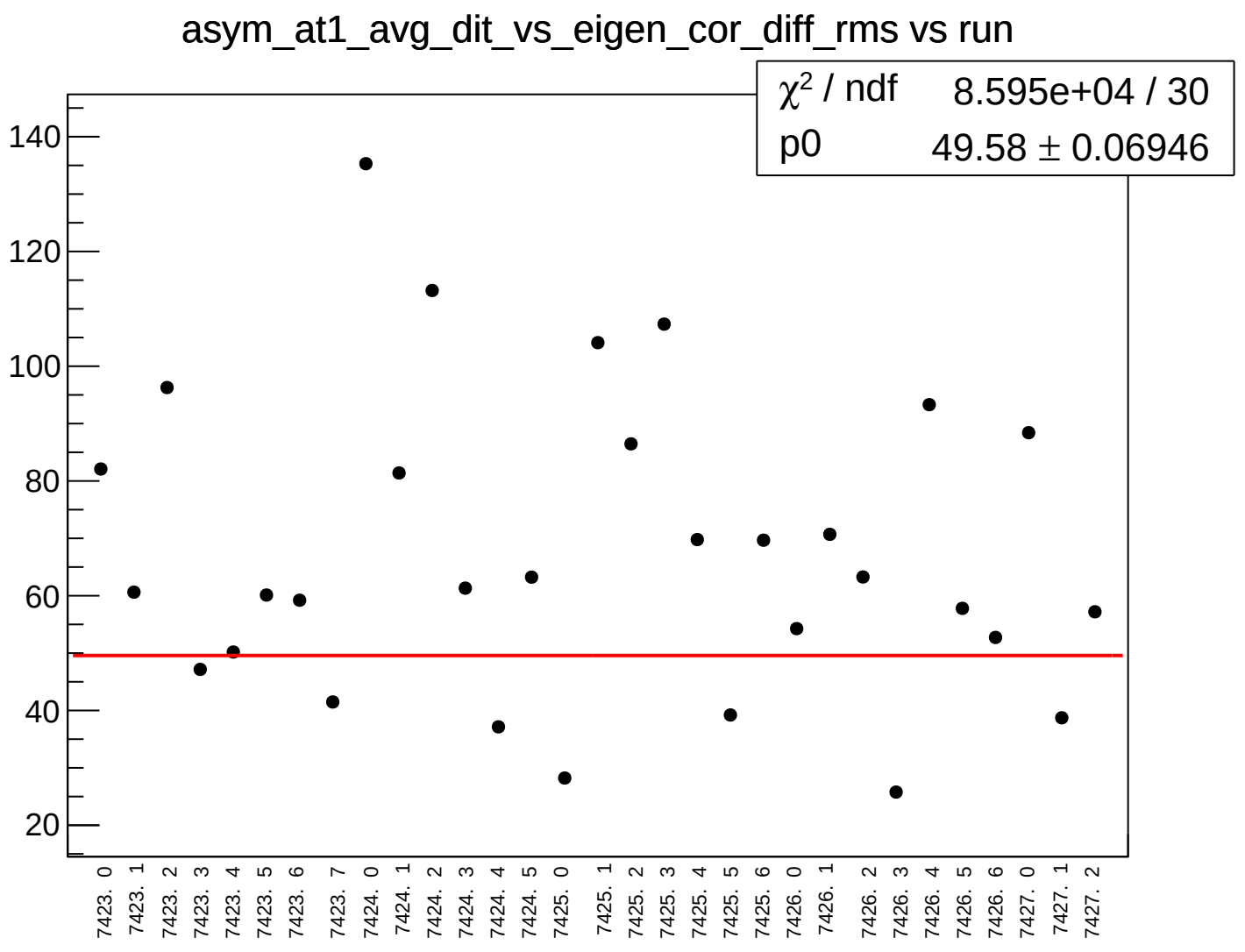

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.595e+04 / 30
p0 49.58 ± 0.06946
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

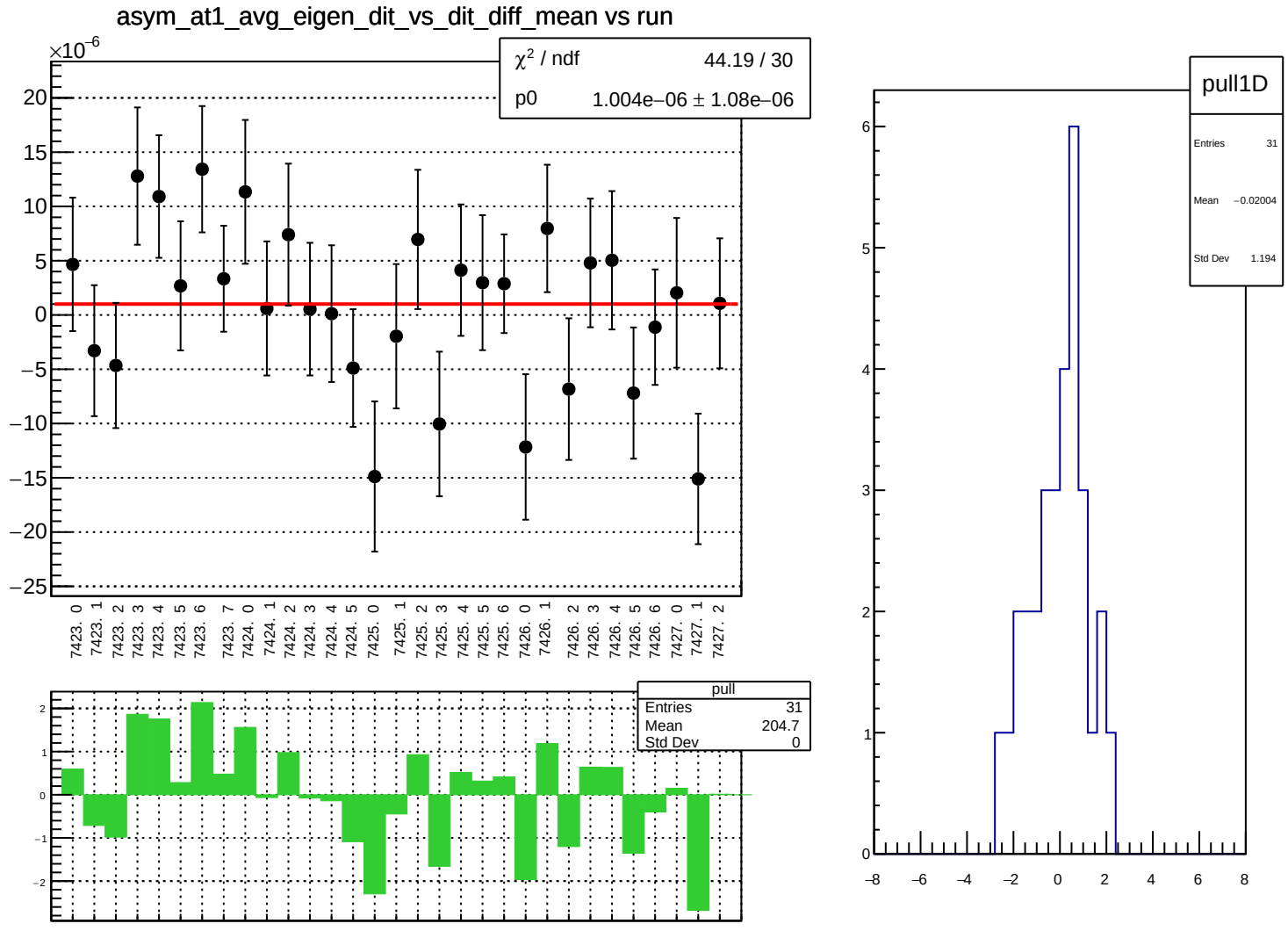
asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run

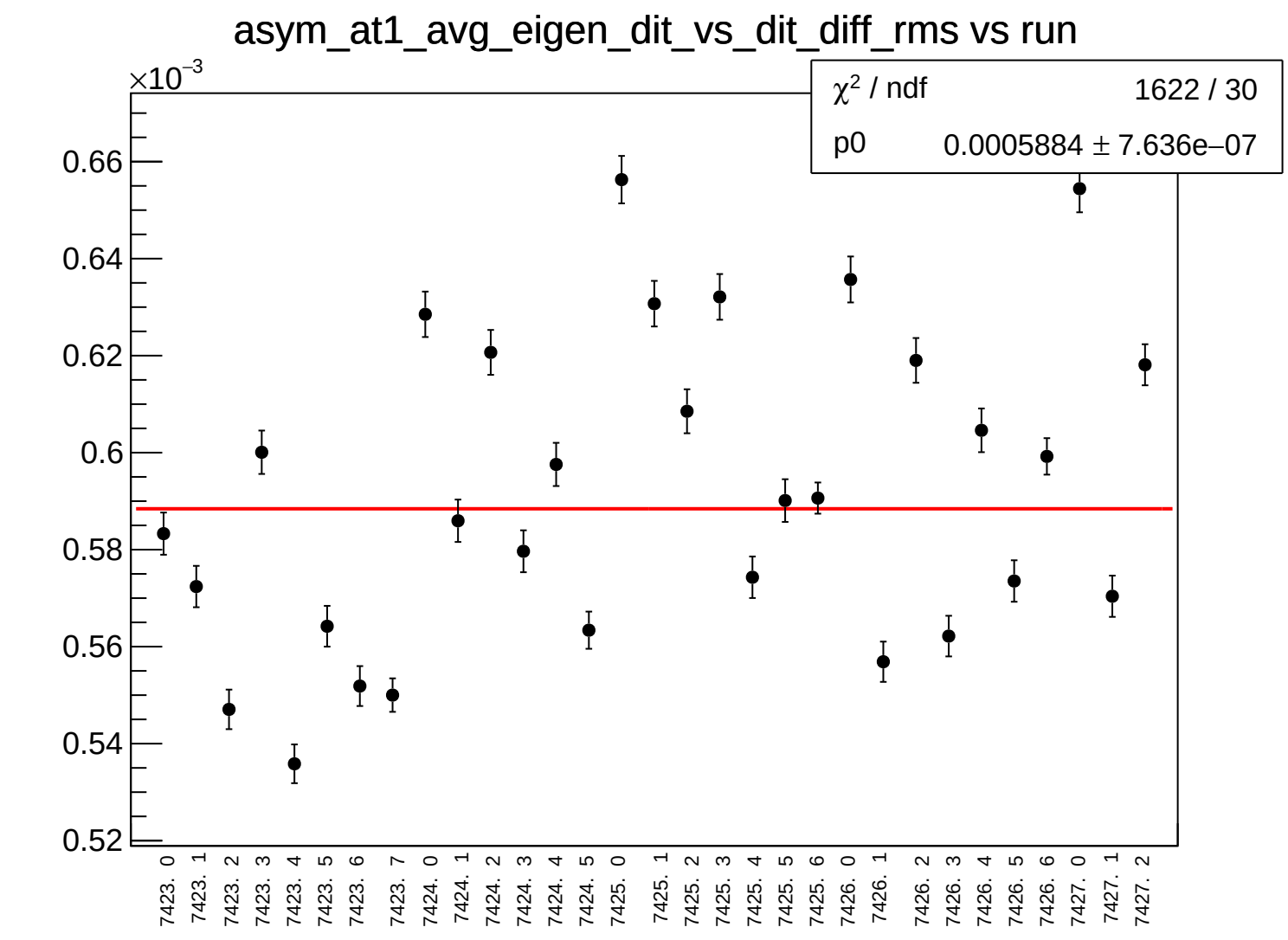




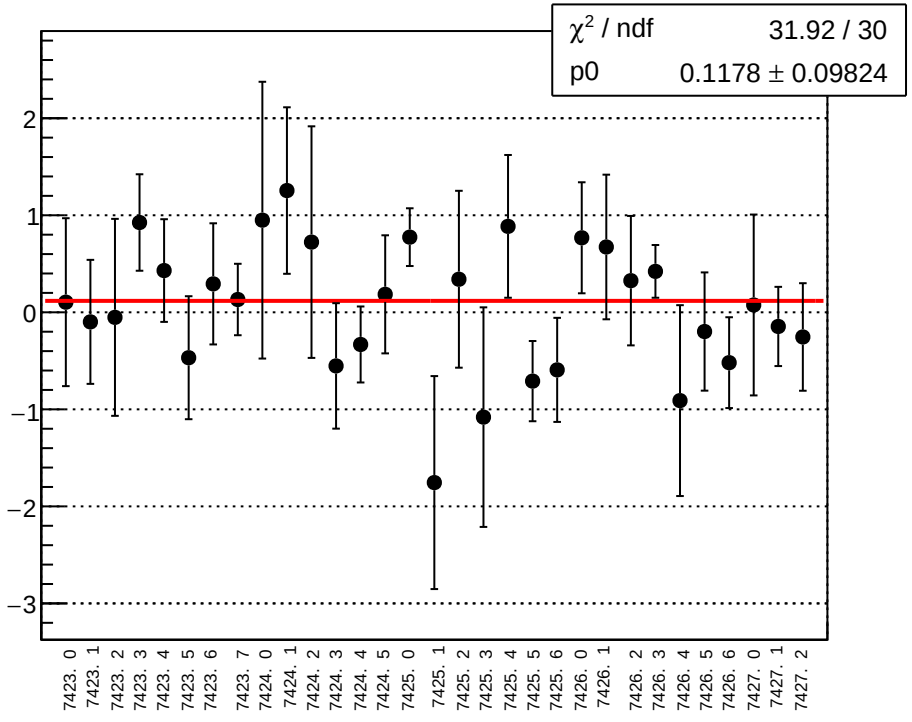


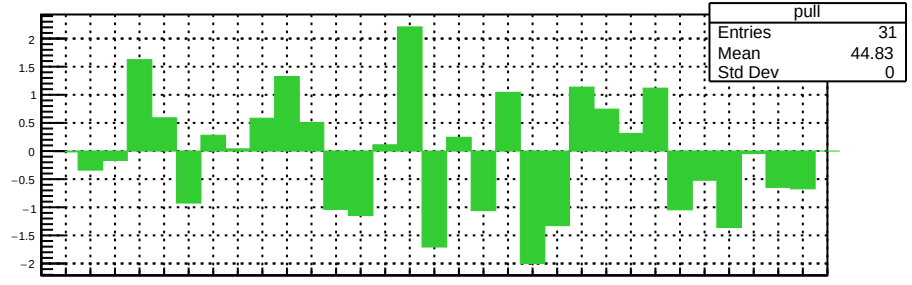

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.595e+04 / 30
p0 49.58 ± 0.06946
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

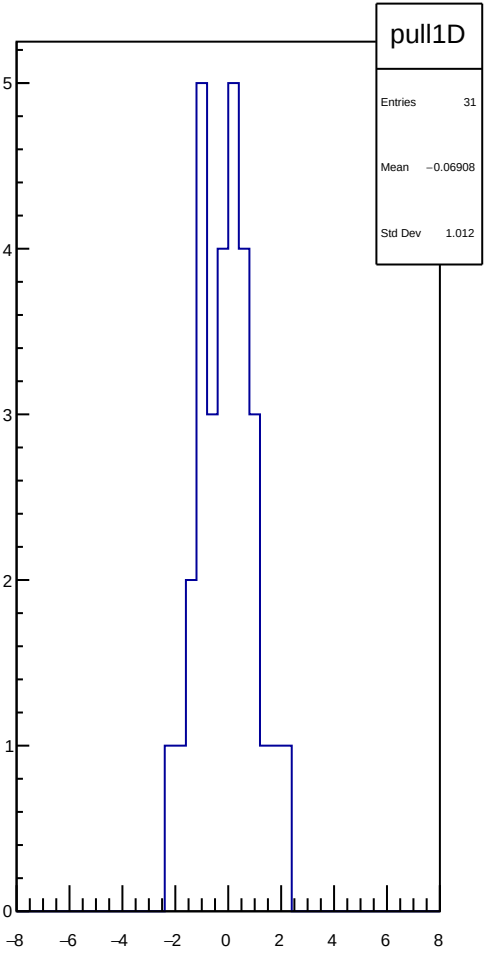

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 44.19 / 30
p0 1.004e−06 ± 1.08e−06
pull
Entries 31
Mean 204.7
Std Dev 0
pull1D
Entries 31
Mean −0.02004
Std Dev 1.194

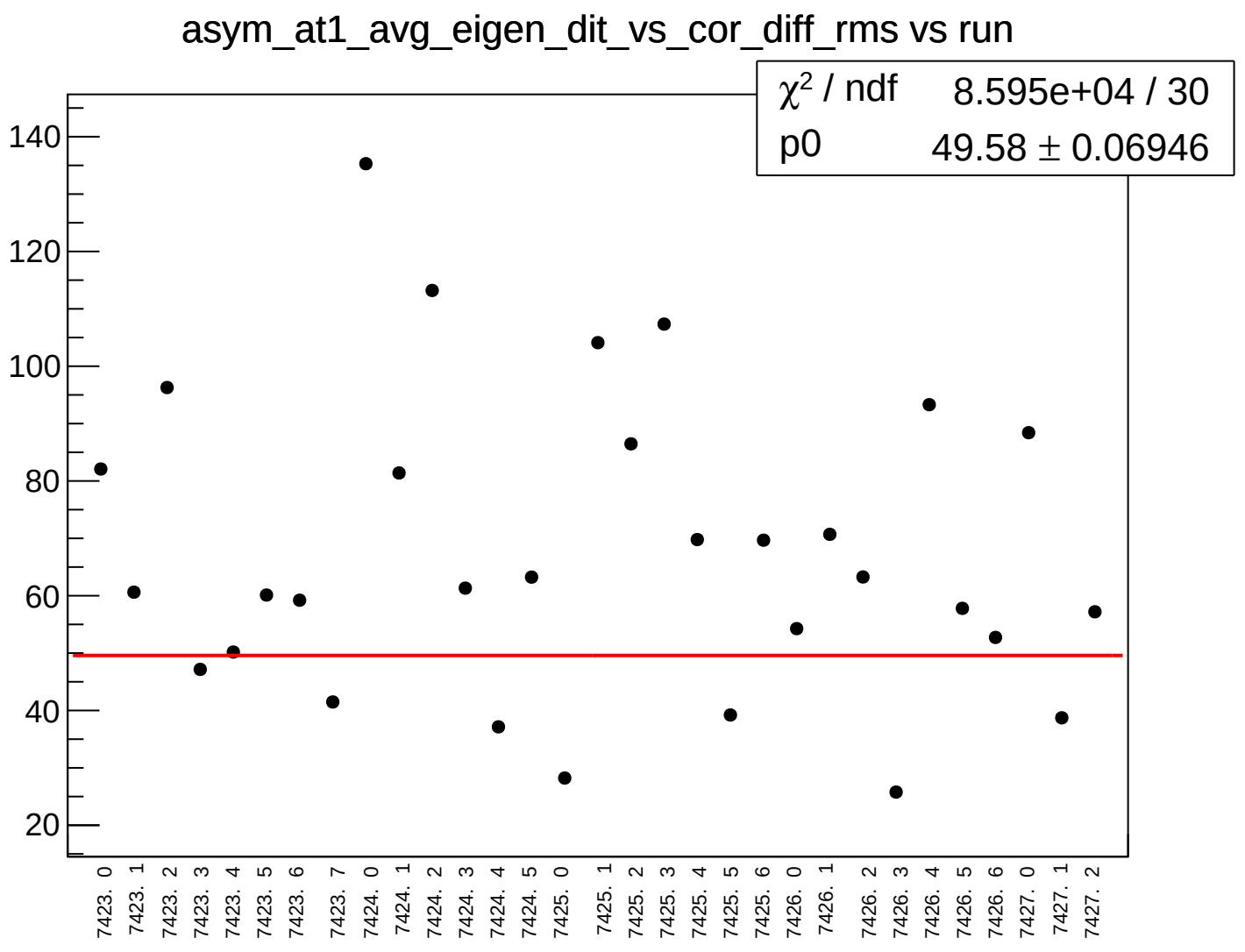

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1622 / 30
p0 0.0005884 ± 7.636e−07
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

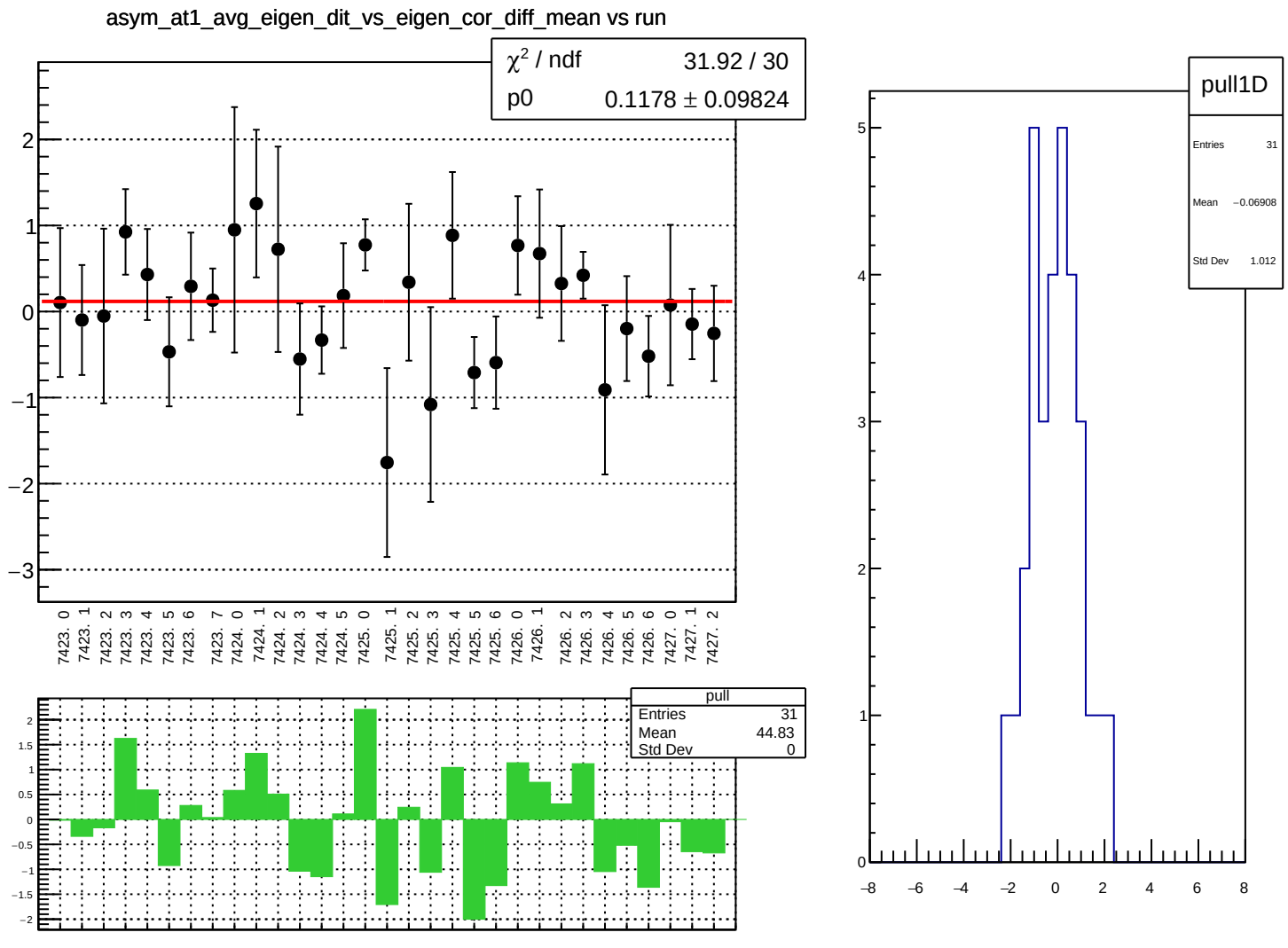
asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run

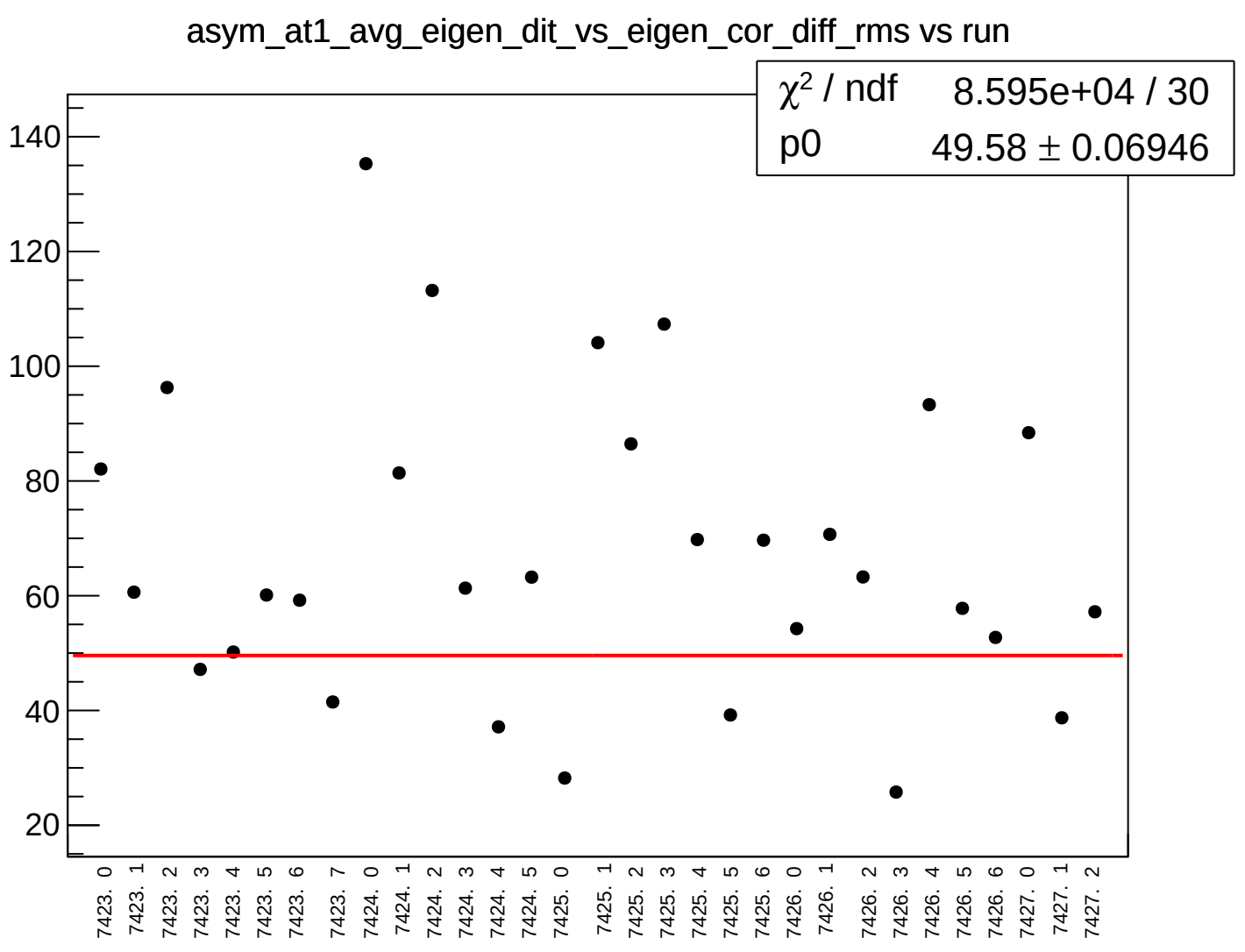


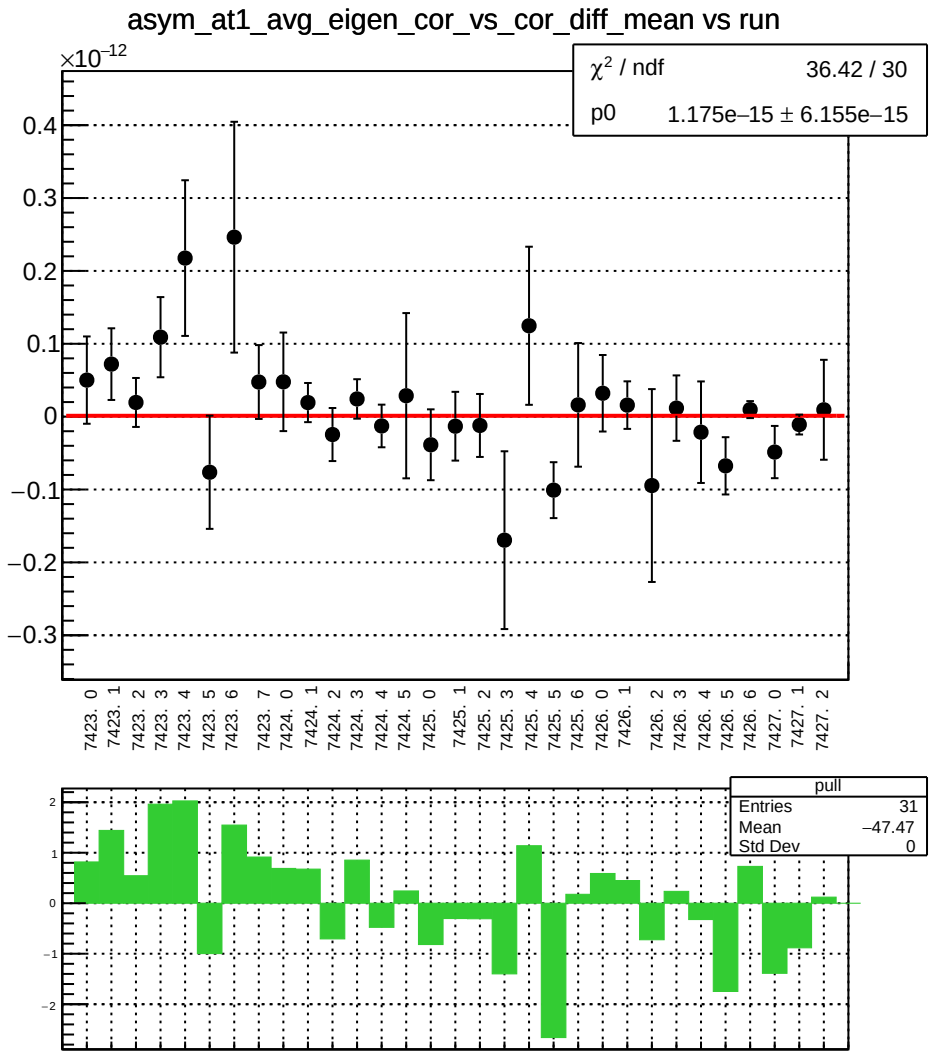


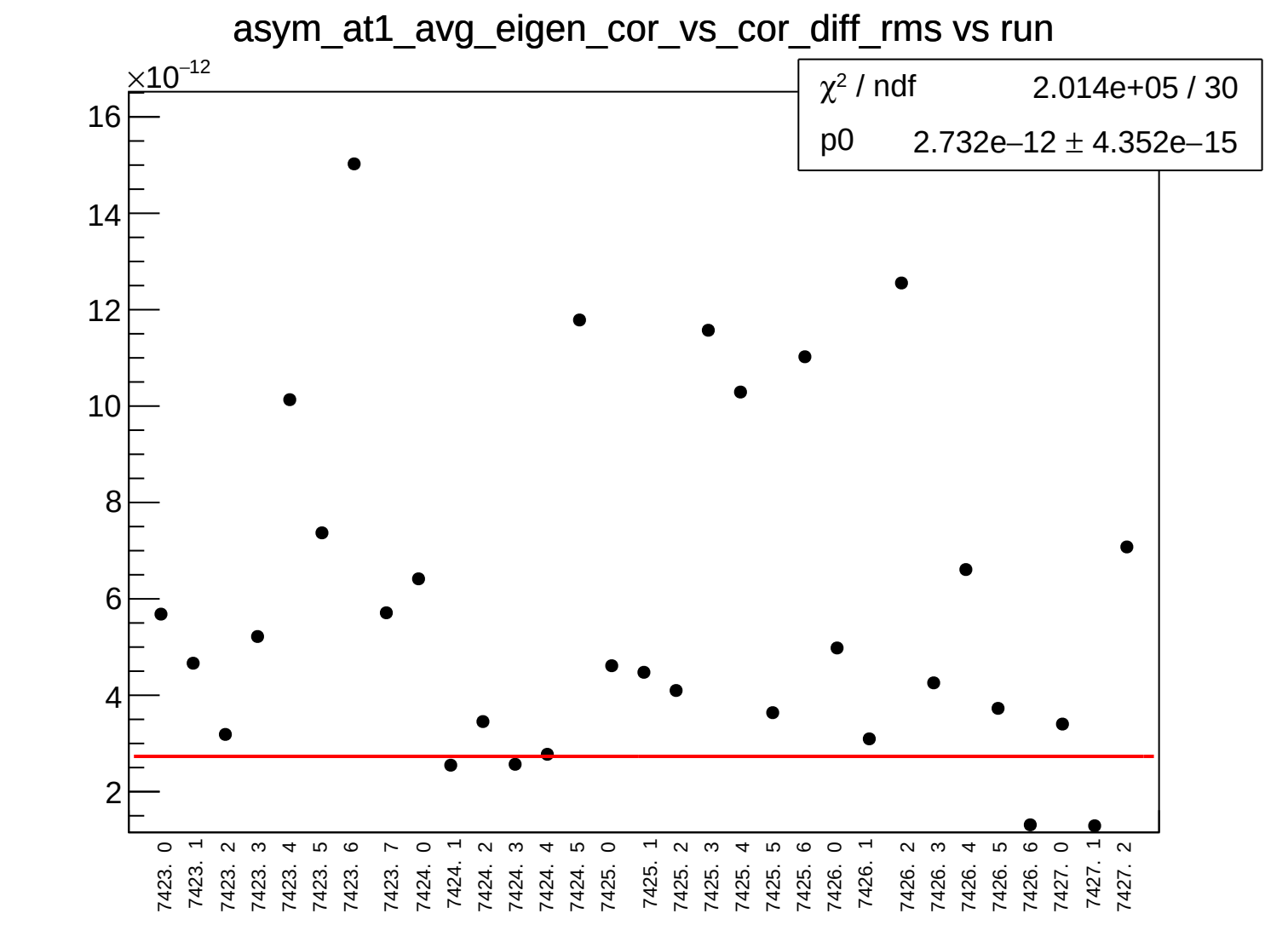


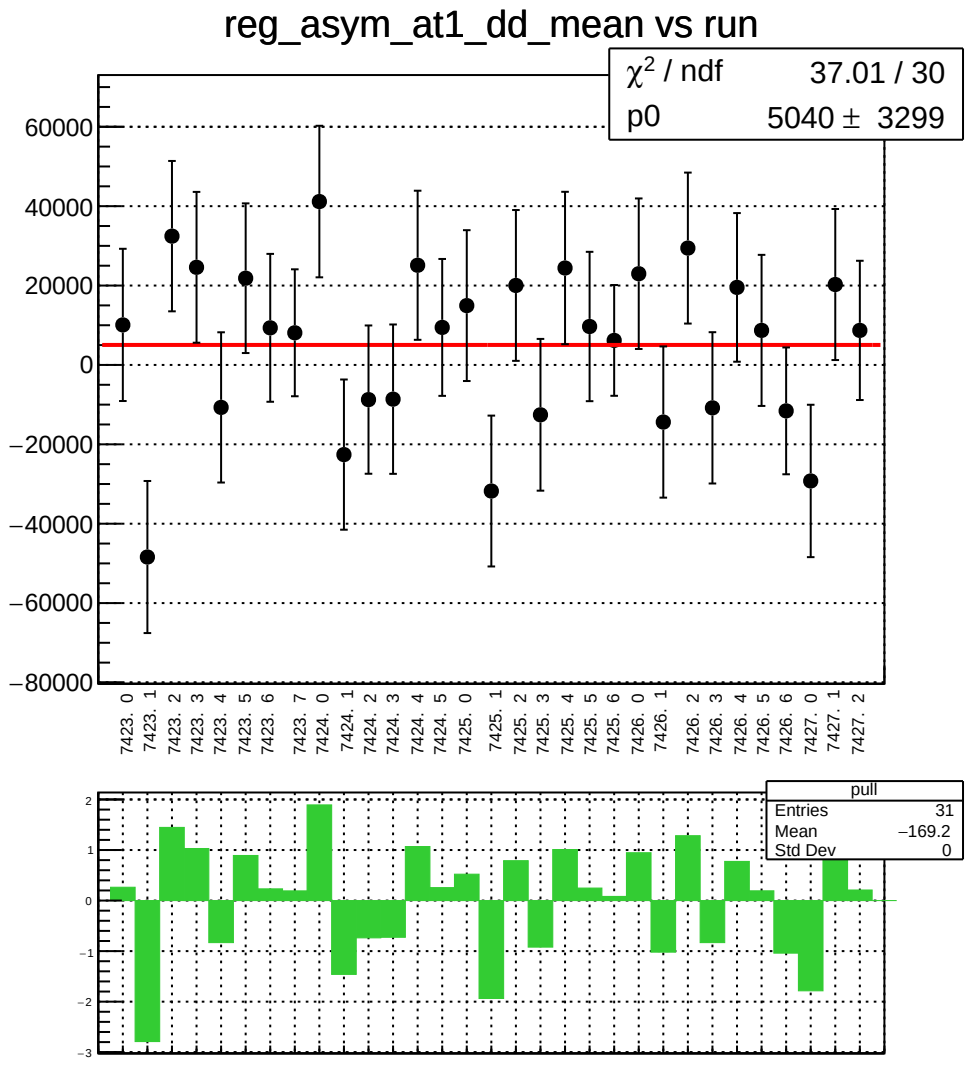

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.595e+04 / 30
p0 49.58 ± 0.06946
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

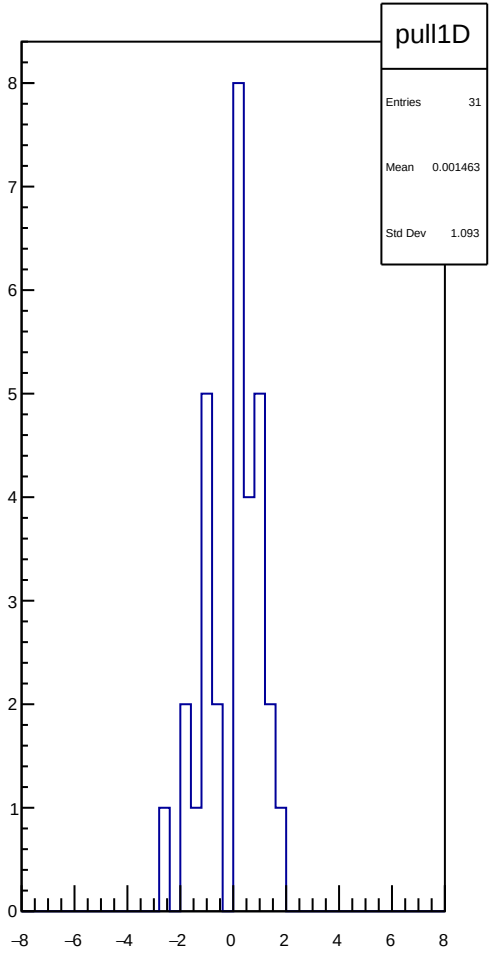

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.92 / 30
p0 0.1178 ± 0.09824
pull
Entries 31
Mean 44.83
Std Dev 0
pull1D
Entries 31
Mean −0.06908
Std Dev 1.012

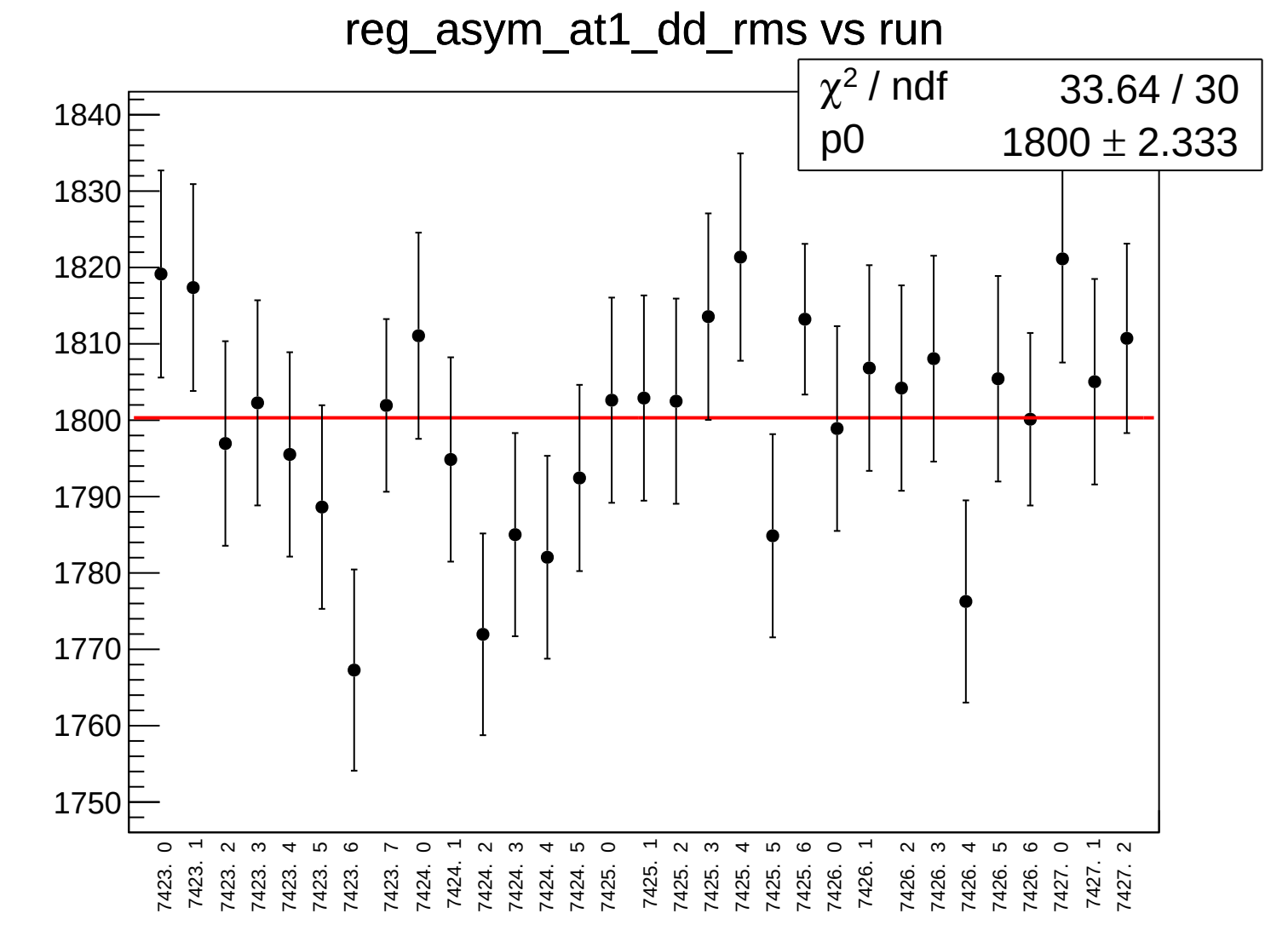

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.595e+04 / 30
p0 49.58 ± 0.06946
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

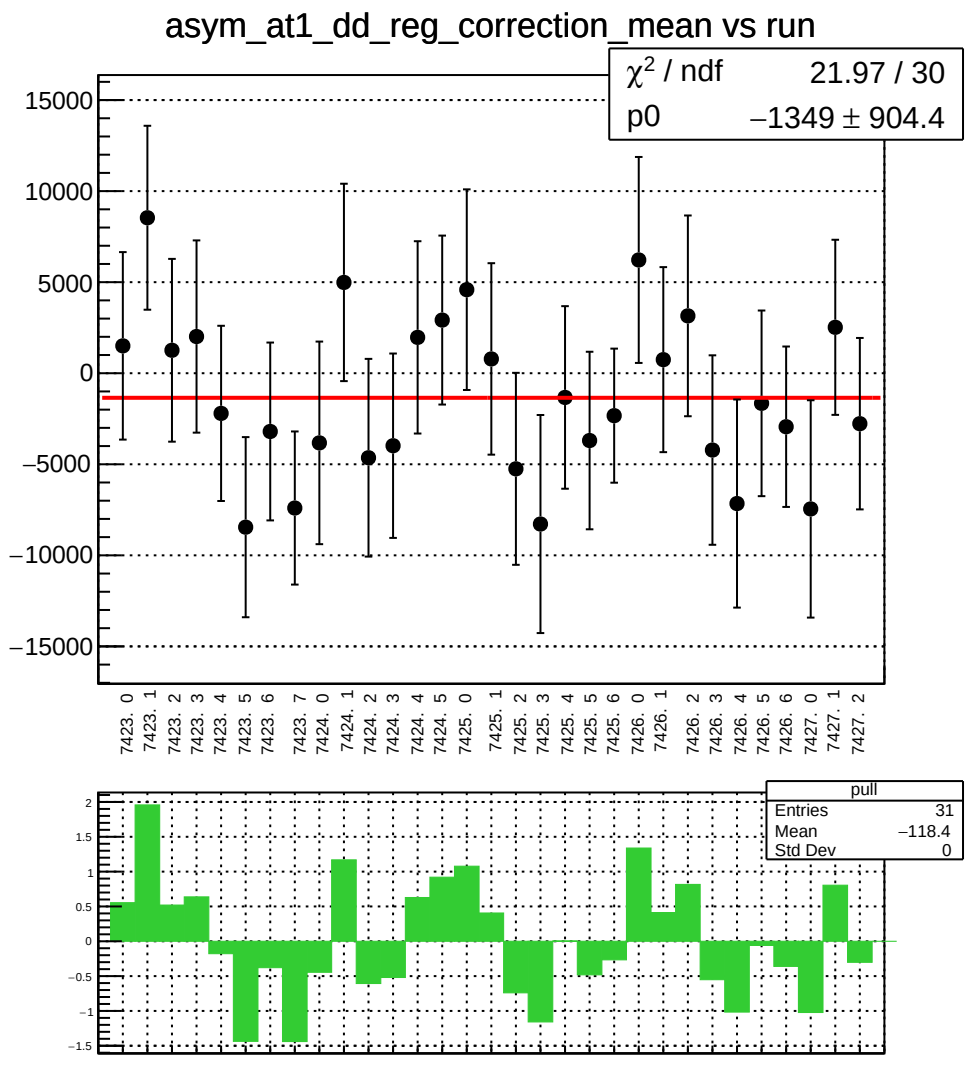

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.42 / 30
p0 1.175e−15 ± 6.155e−15
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −47.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.07805
Std Dev 1.081
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

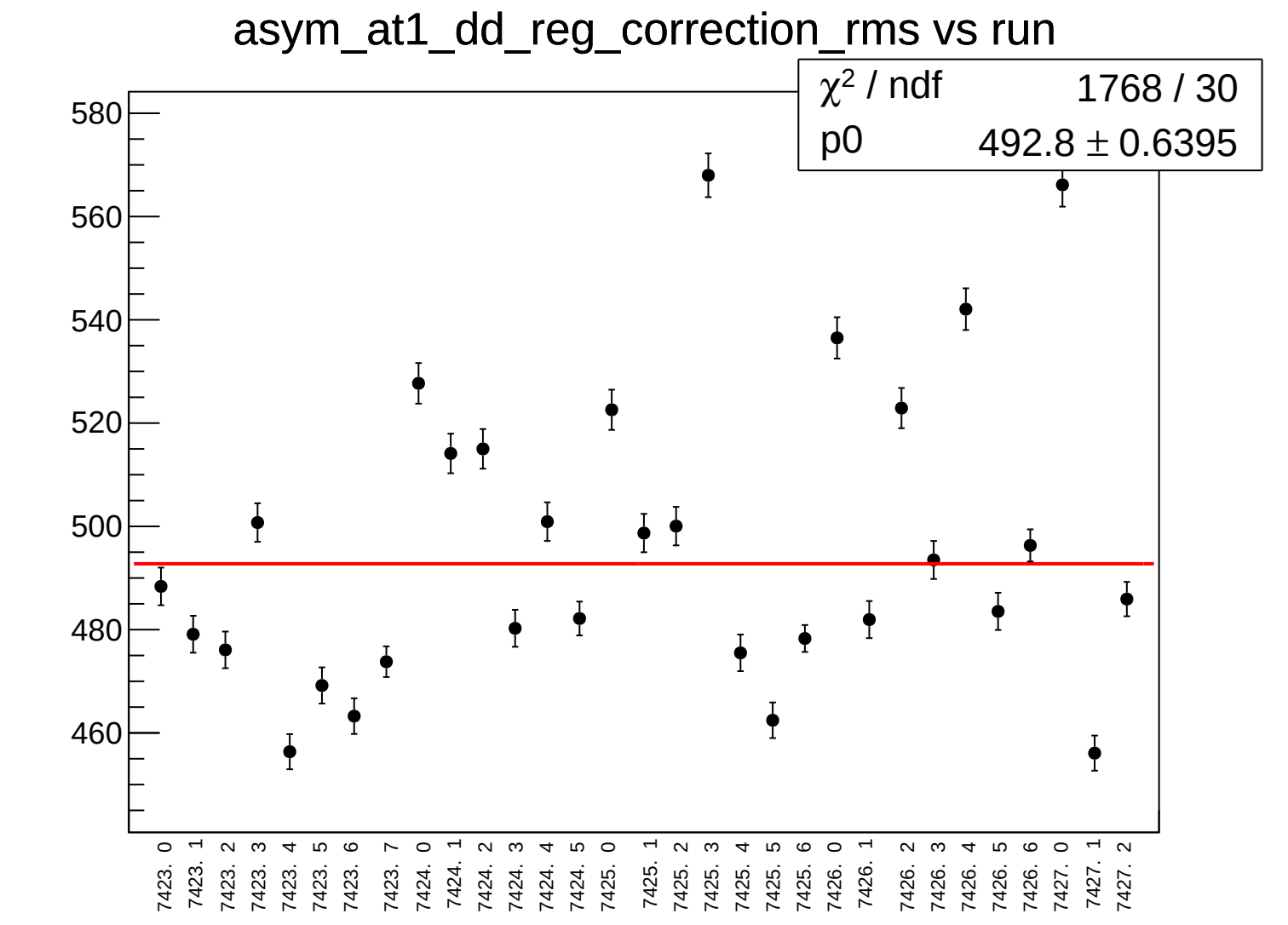

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.014e+05 / 30
p0 2.732e−12 ± 4.352e−15
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

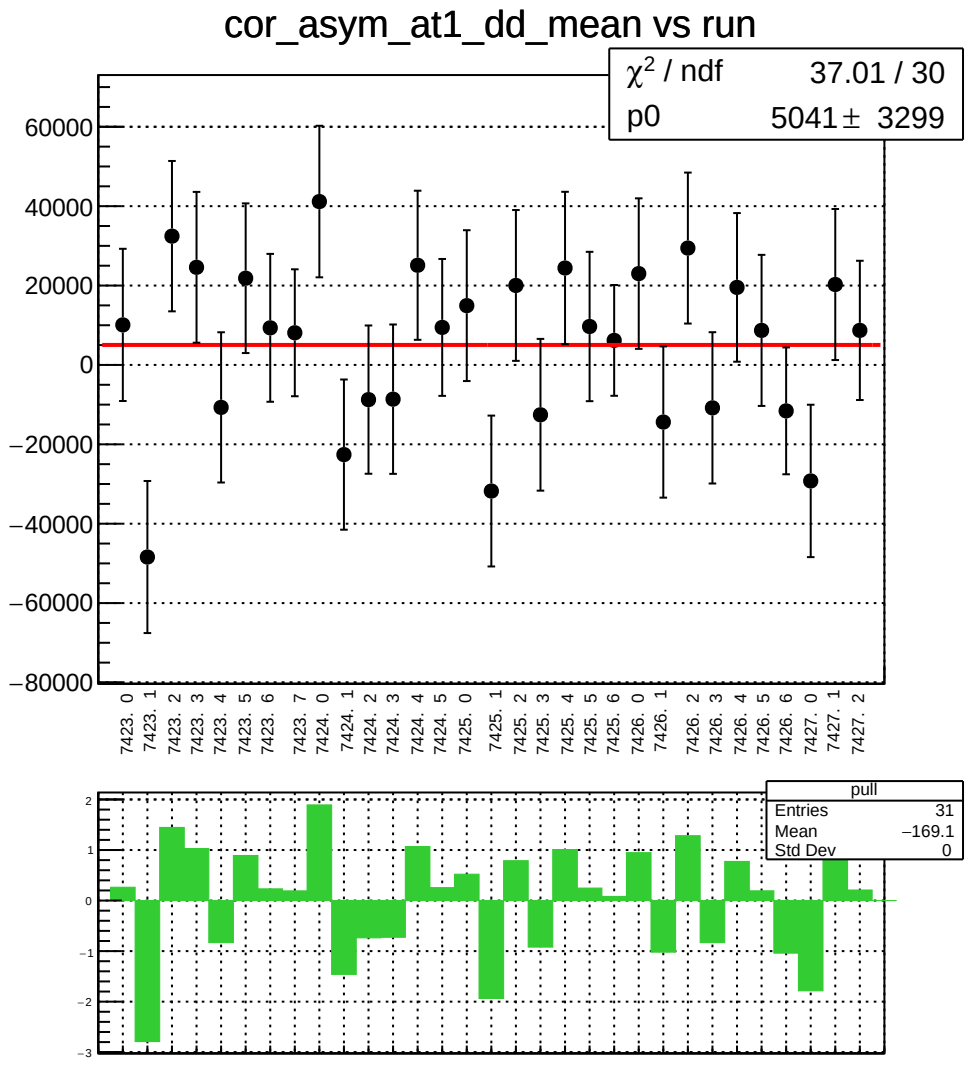

reg_asym_at1_dd_mean vs run
χ² / ndf 37.01 / 30
p0 5040 ± 3299
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −169.2
Std Dev 0
2
1
0
−1
−2
−3

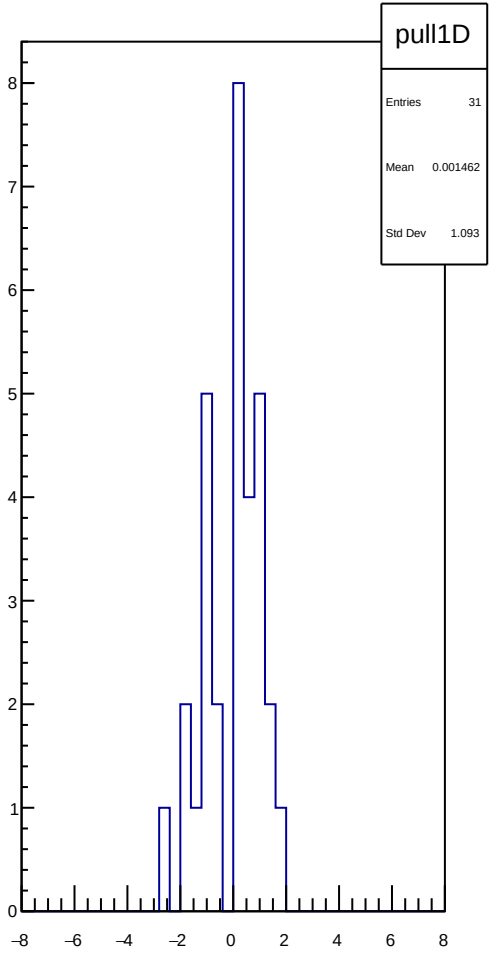

pull1D
Entries 31
Mean 0.001463
Std Dev 1.093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

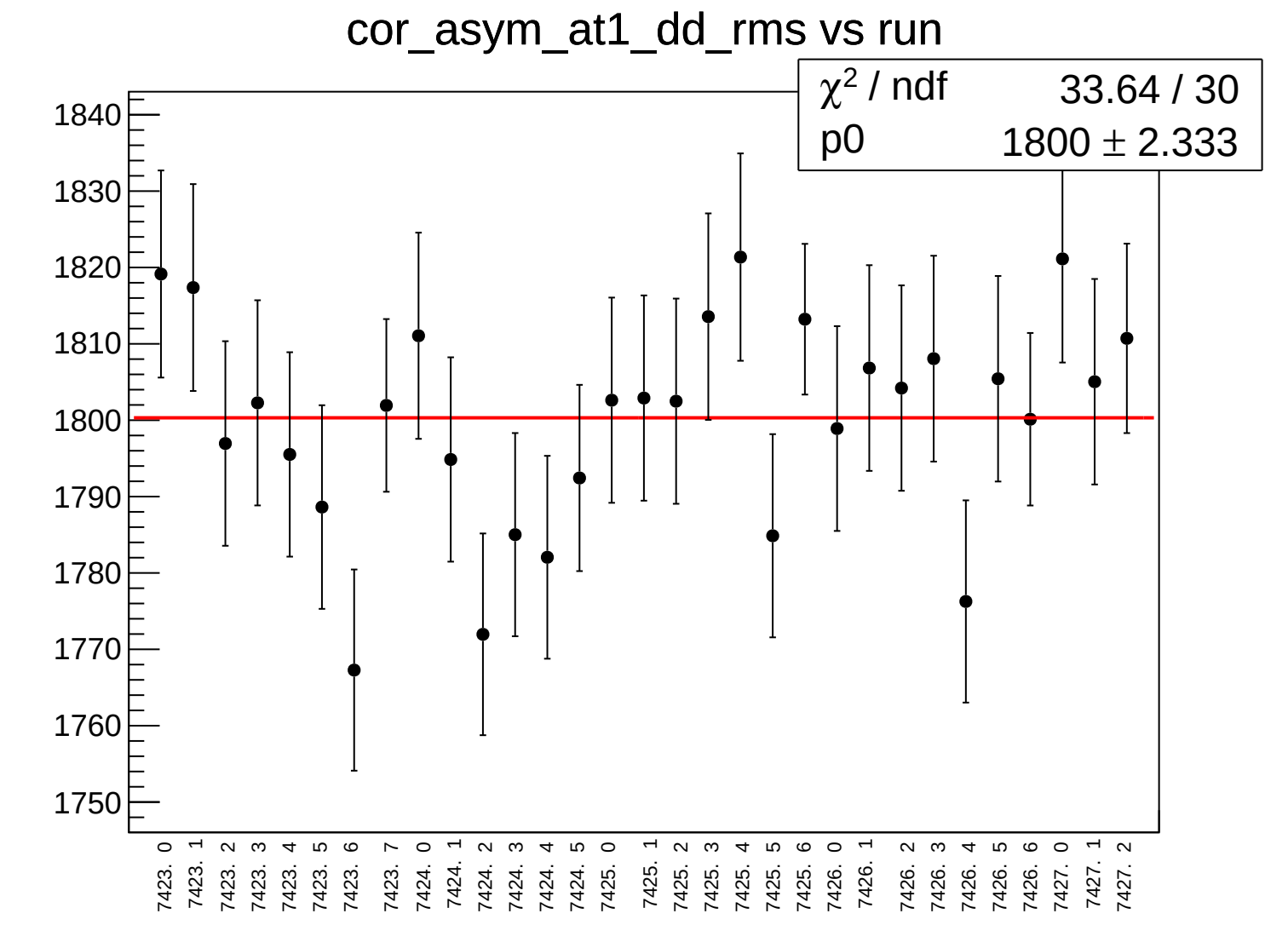

reg_asym_at1_dd_rms vs run
χ² / ndf 33.64 / 30
p0 1800 ± 2.333
1840
1830
1820
1810
1800
1790
1780
1770
1760
1750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

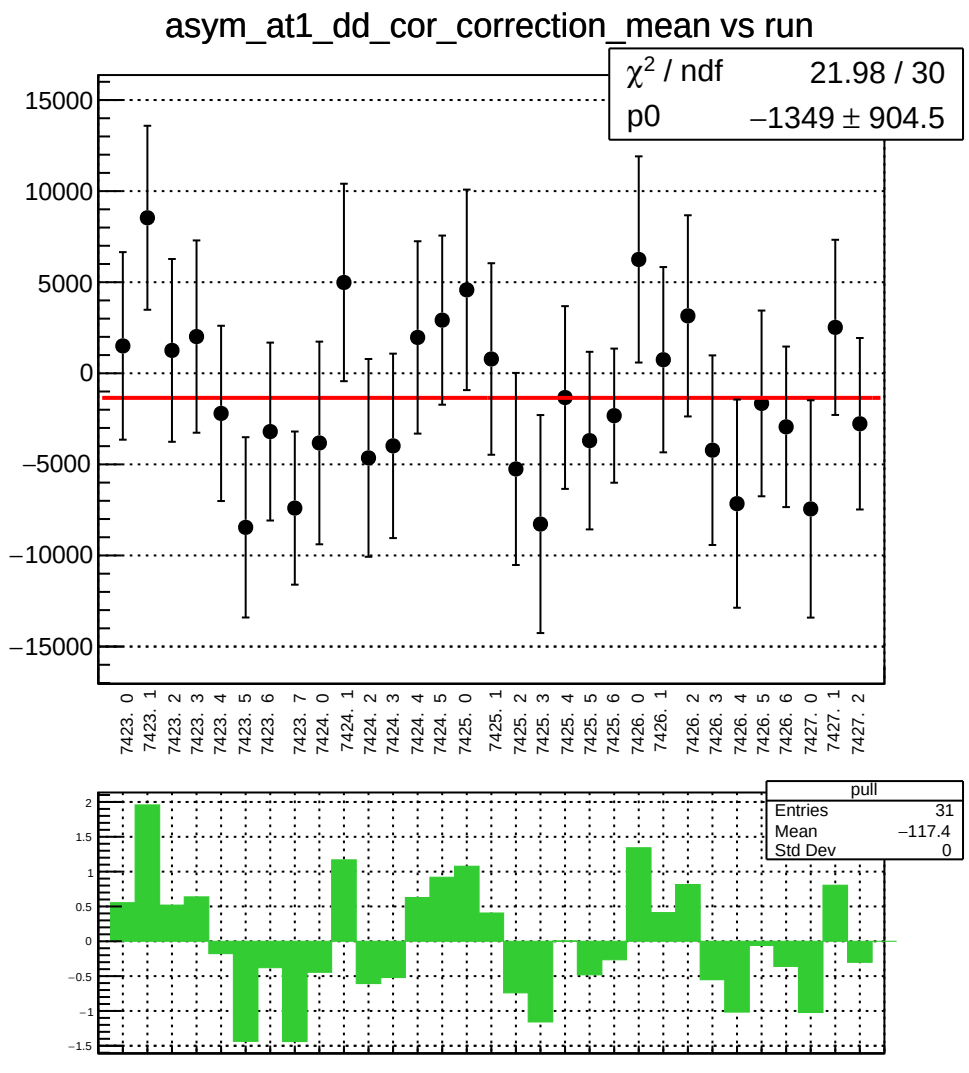

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 21.97 / 30
p0 −1349 ± 904.4
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −118.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.009153
Std Dev 0.8418
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

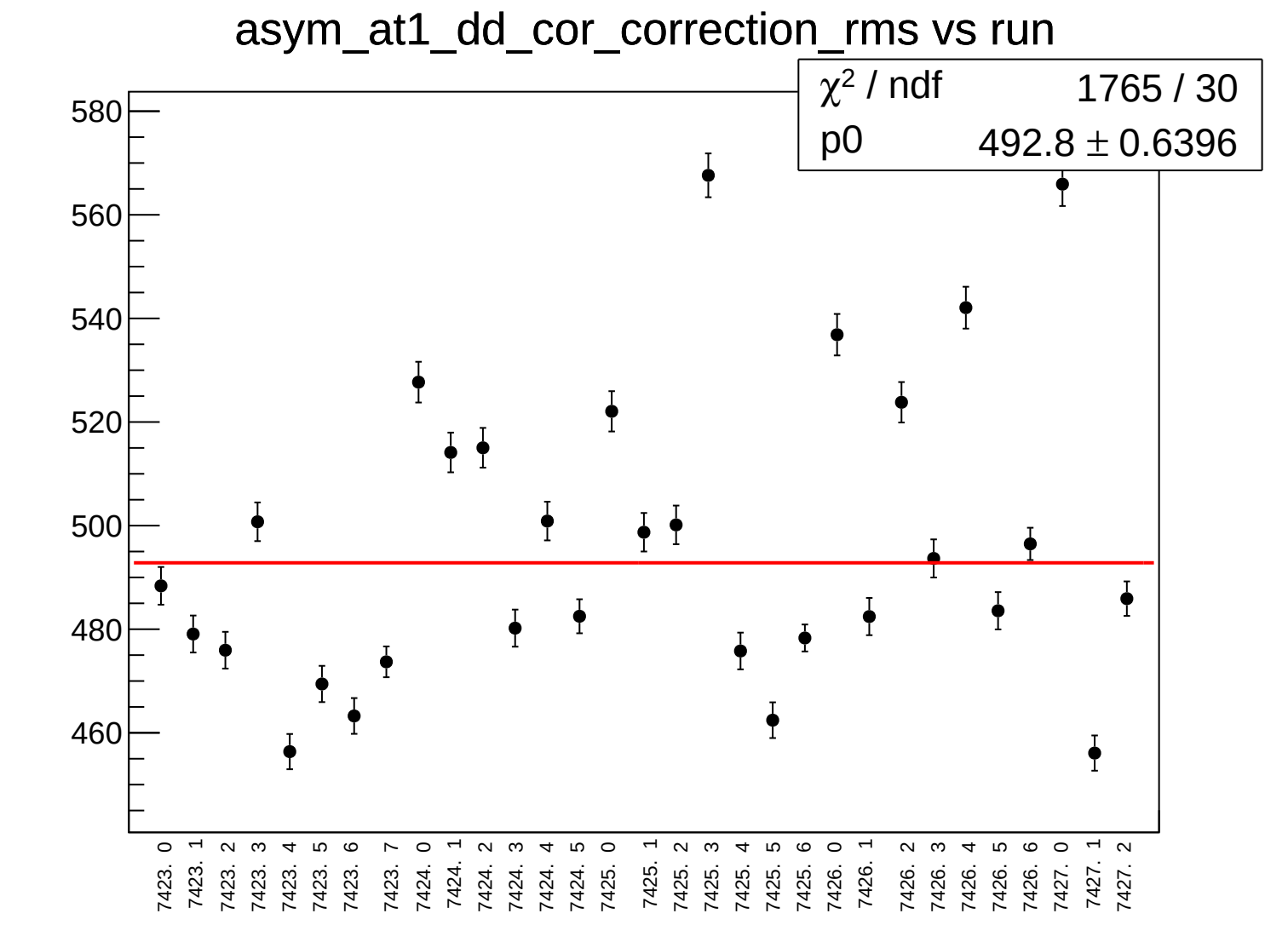

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1768 / 30
p0 492.8 ± 0.6395
580
560
540
520
500
480
460
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

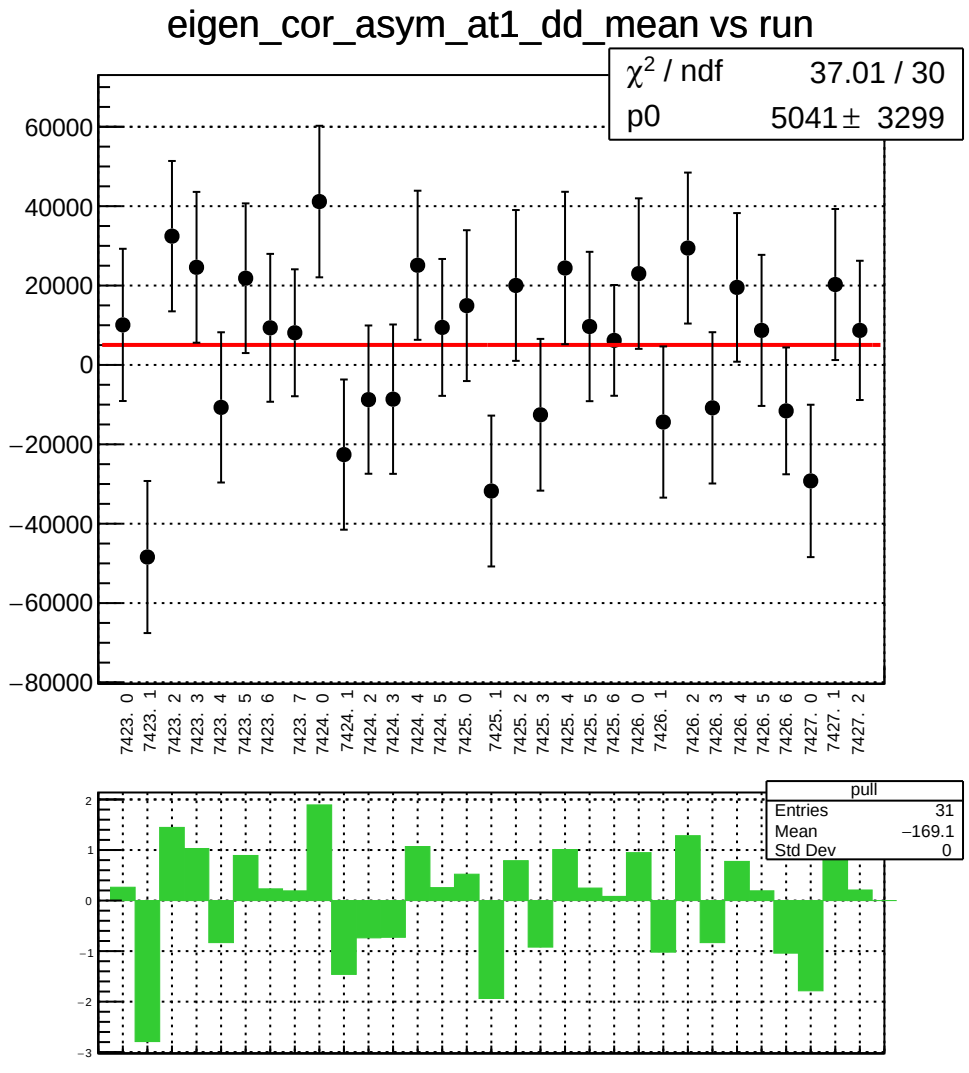

cor_asym_at1_dd_mean vs run
χ² / ndf 37.01 / 30
p0 5041 ± 3299
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −169.1
Std Dev 0
2
1
0
−1
−2
−3

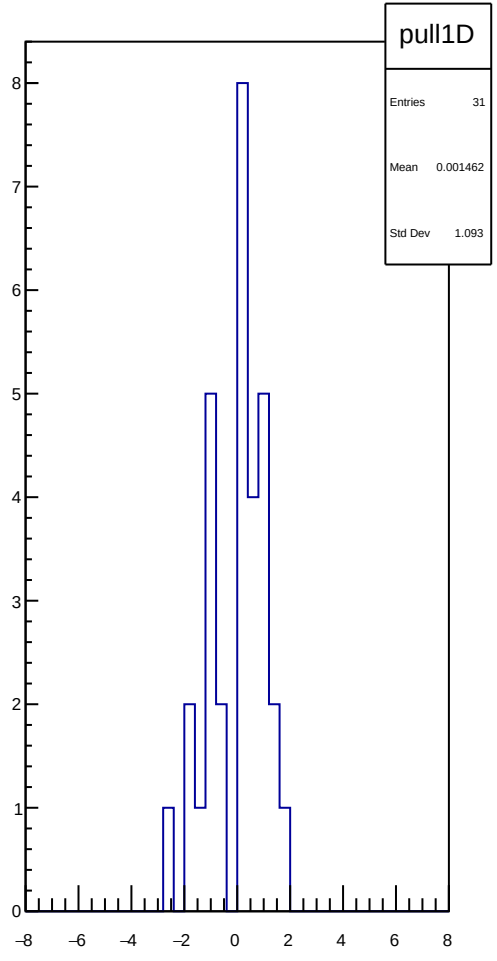

pull1D
Entries 31
Mean 0.001462
Std Dev 1.093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

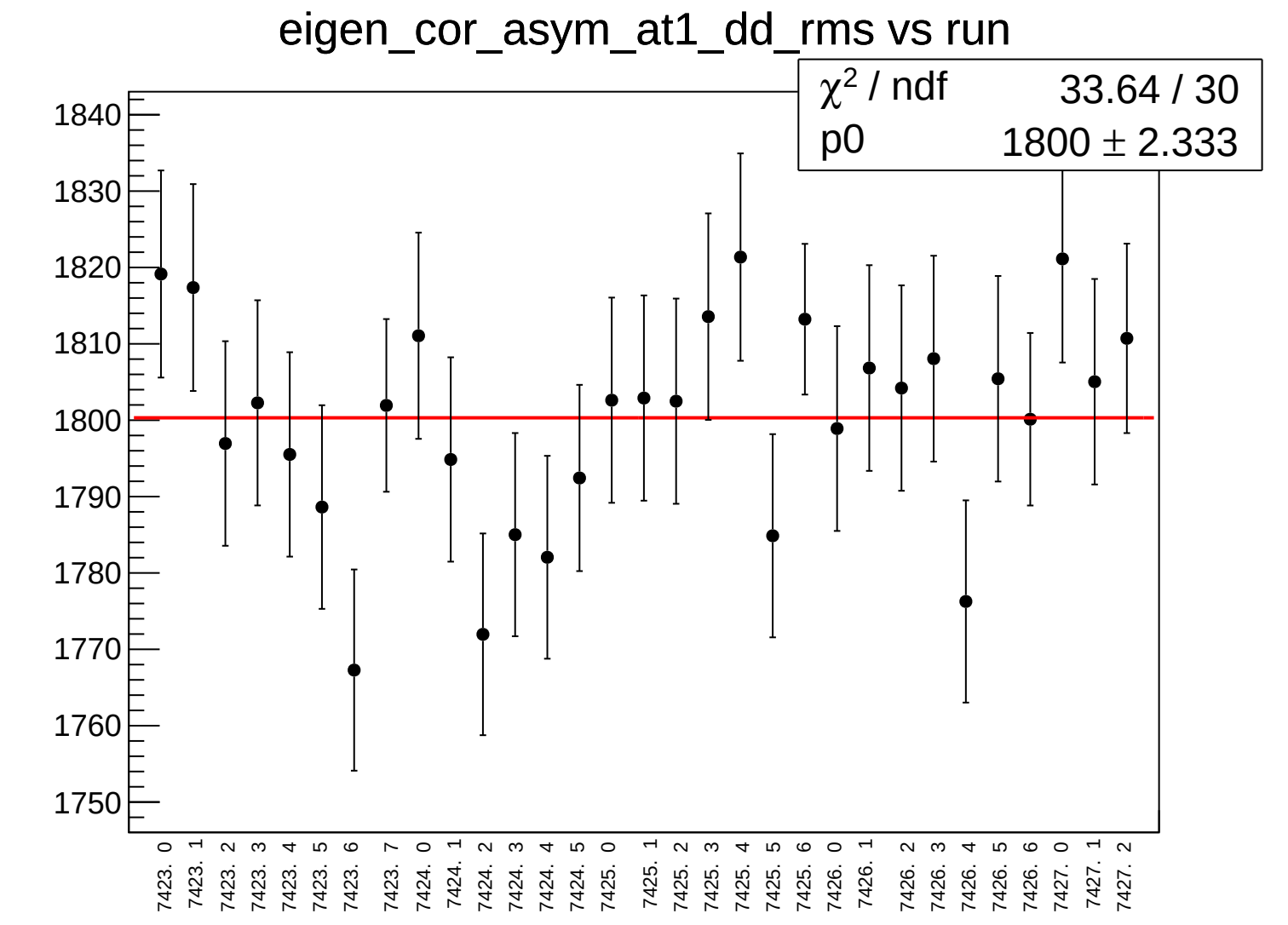

cor_asym_at1_dd_rms vs run
χ² / ndf 33.64 / 30
p0 1800 ± 2.333
1840
1830
1820
1810
1800
1790
1780
1770
1760
1750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

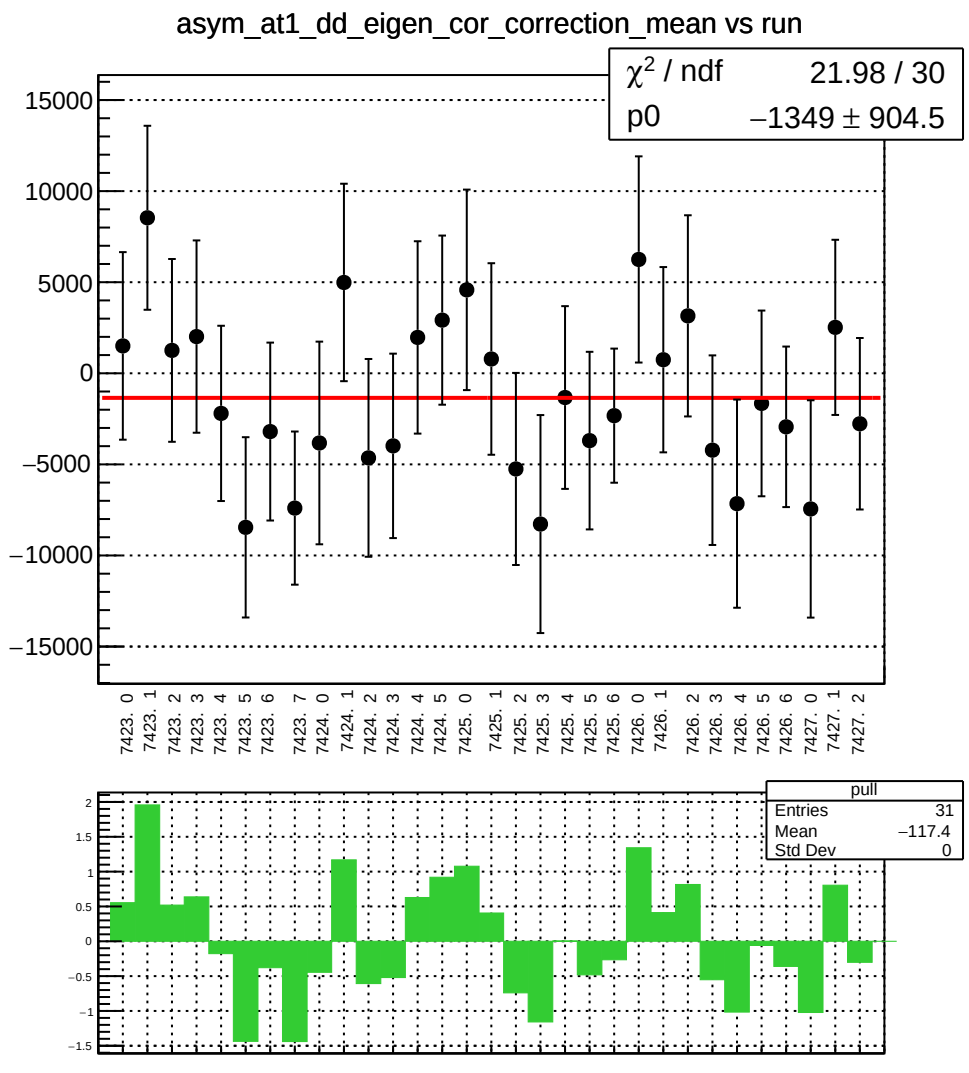

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 21.98 / 30
p0 −1349 ± 904.5
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −117.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.009217
Std Dev 0.8419
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

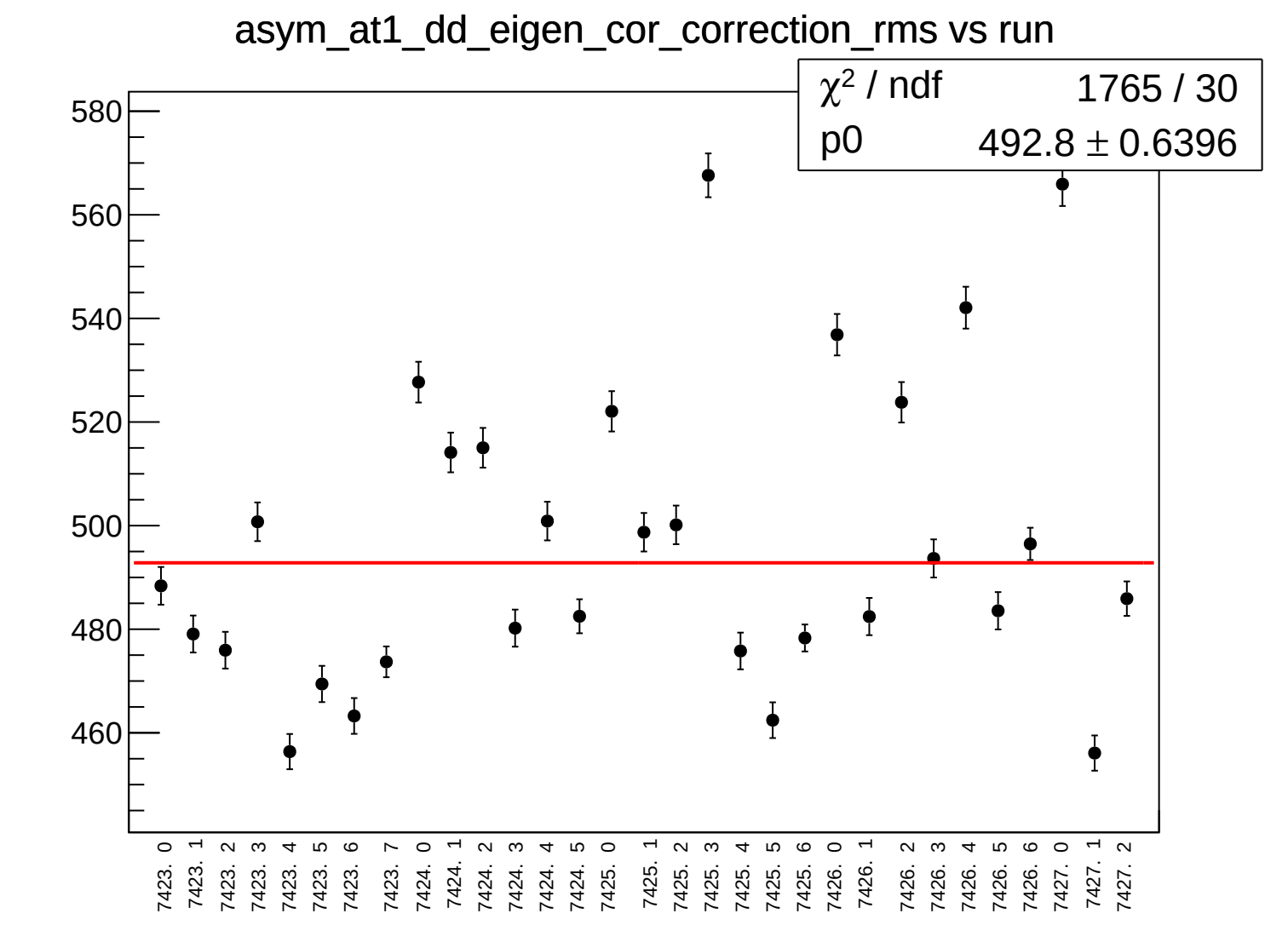

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1765 / 30
p0 492.8 ± 0.6396
580
560
540
520
500
480
460
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

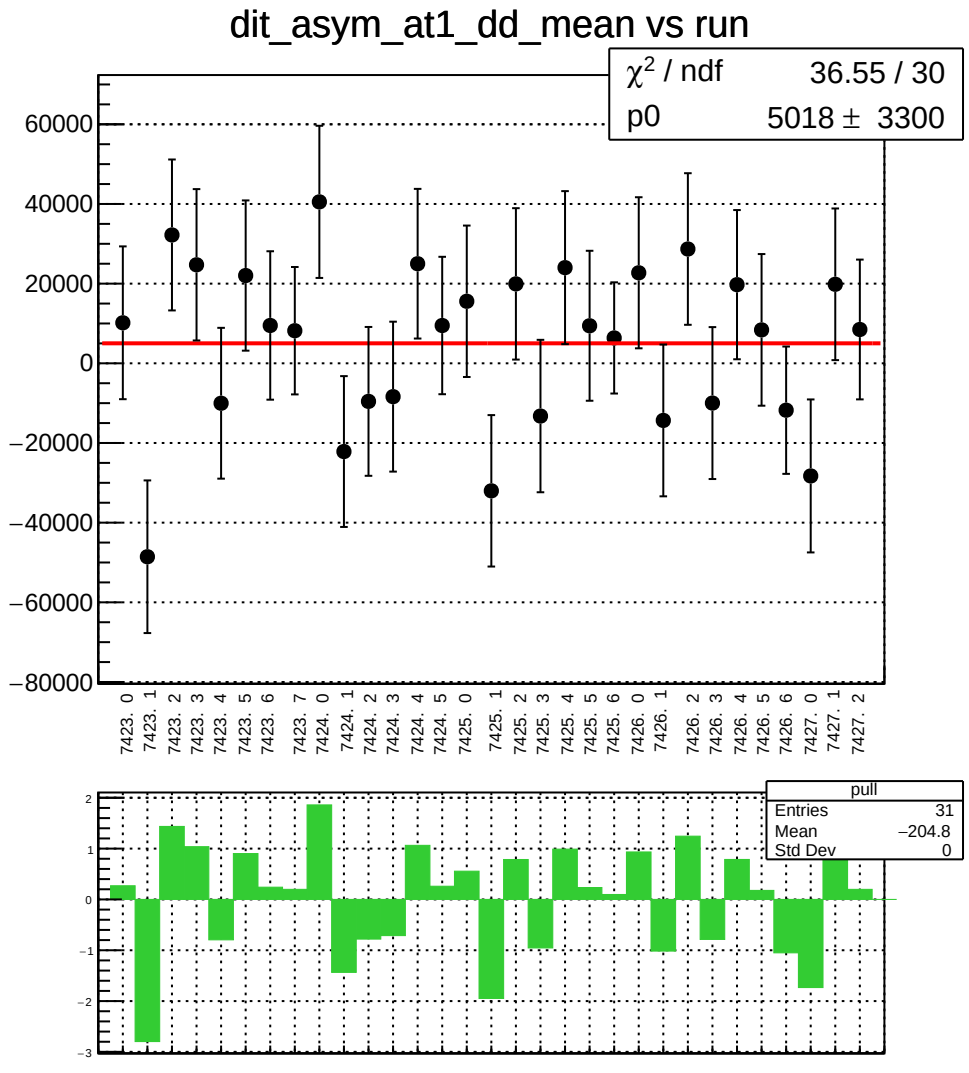

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 37.01 / 30
p0 5041 ± 3299
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −169.1
Std Dev 0
2
1
0
−1
−2
−3

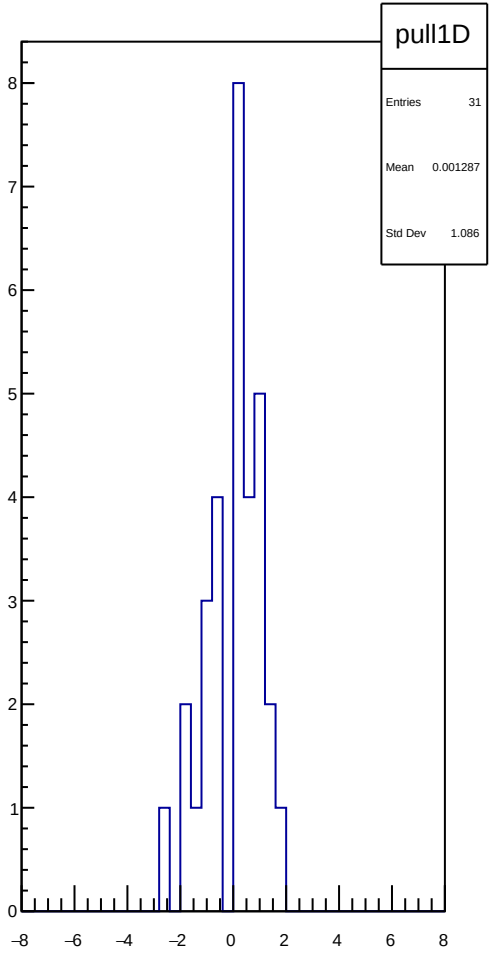

pull1D
Entries 31
Mean 0.001462
Std Dev 1.093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

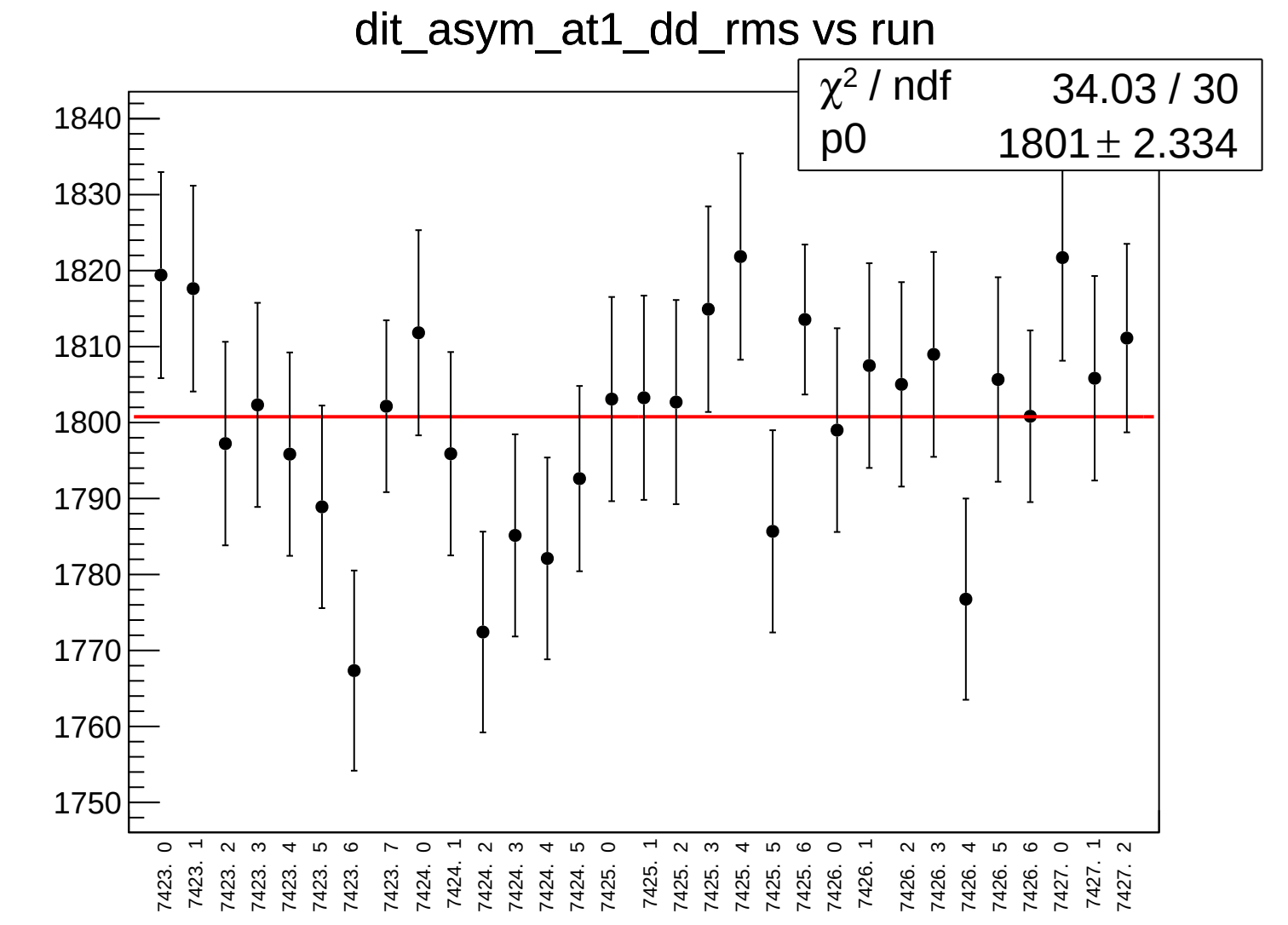

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 33.64 / 30
p0 1800 ± 2.333
1840
1830
1820
1810
1800
1790
1780
1770
1760
1750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

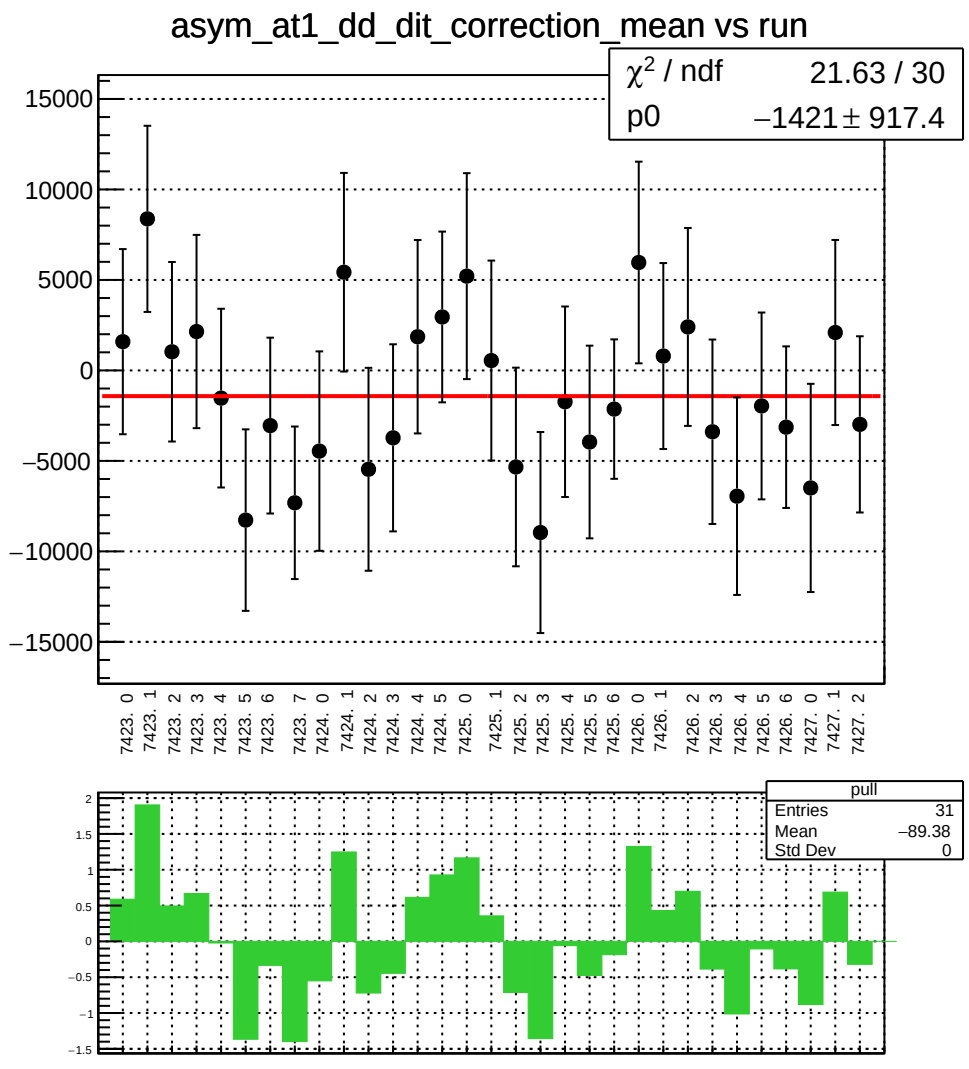

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 21.98 / 30
p0 −1349 ± 904.5
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −117.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.009217
Std Dev 0.8419
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

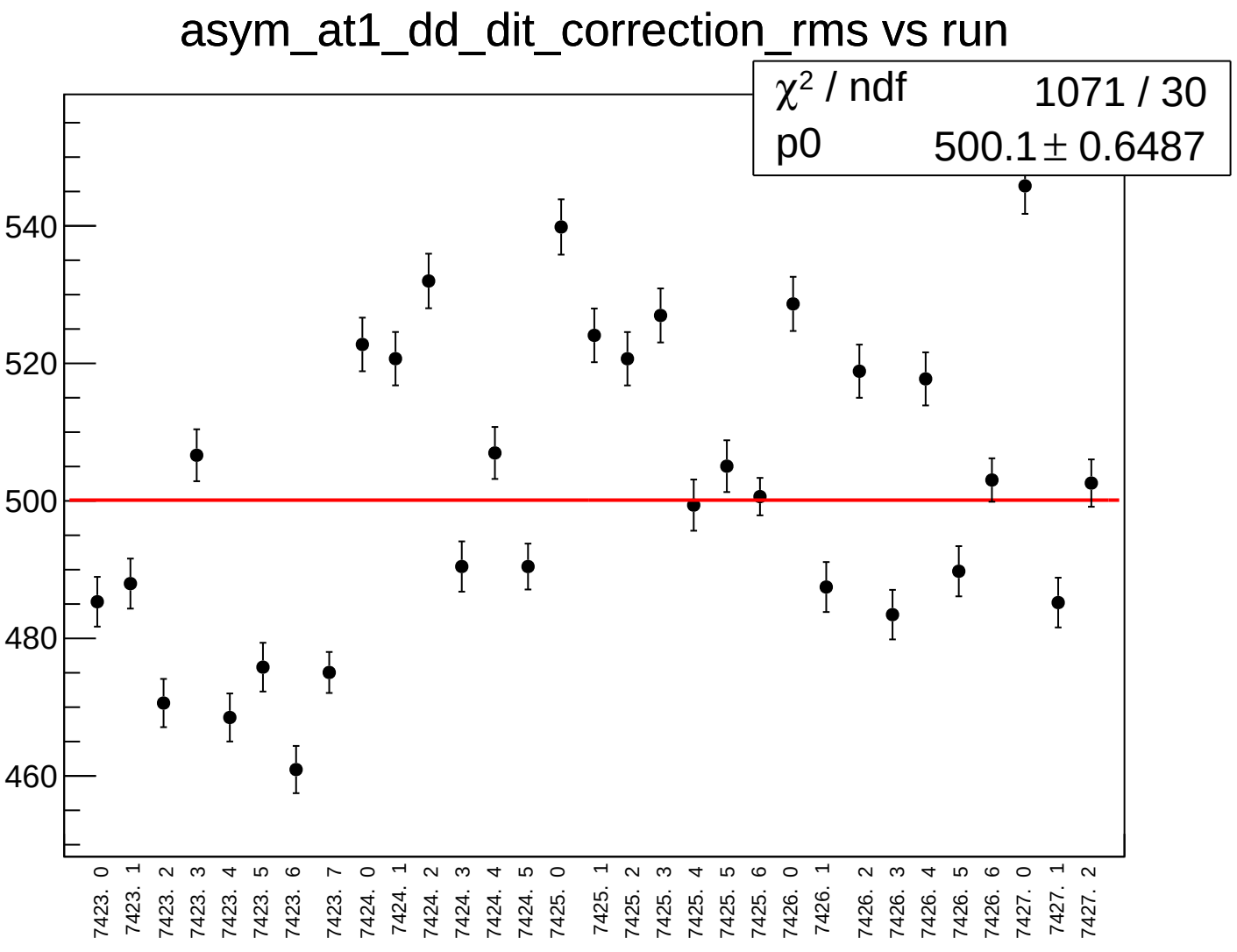

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1765 / 30
p0 492.8 ± 0.6396
580
560
540
520
500
480
460
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

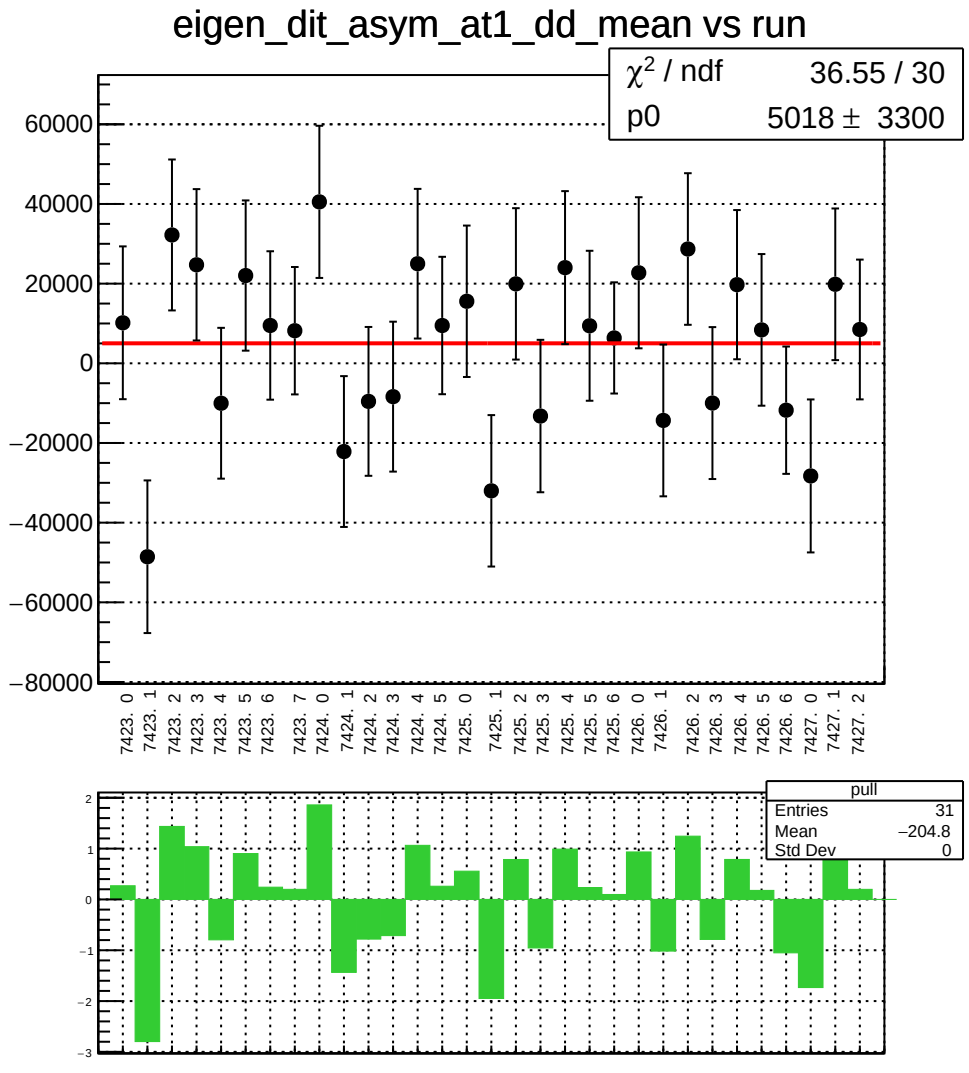

dit_asym_at1_dd_mean vs run
χ² / ndf 36.55 / 30
p0 5018 ± 3300
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −204.8
Std Dev 0
2
1
0
−1
−2
−3

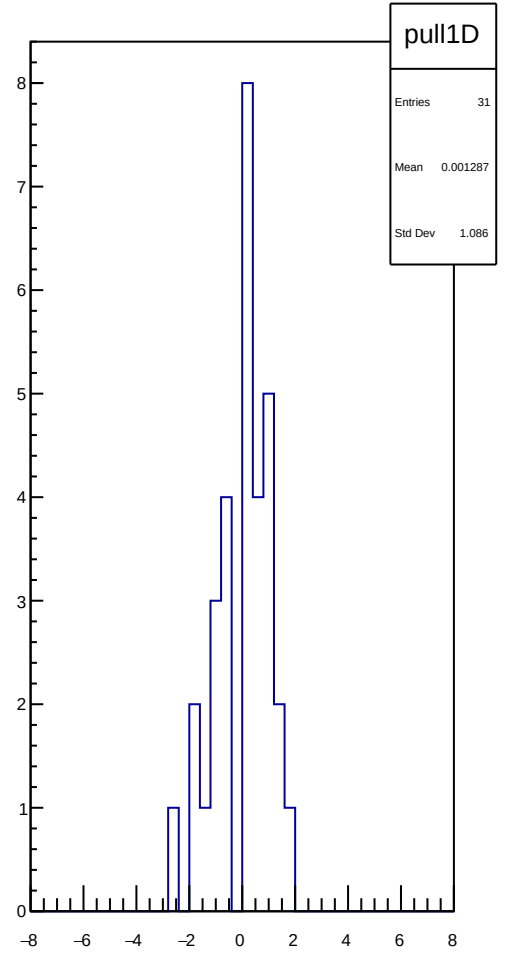

pull1D
Entries 31
Mean 0.001287
Std Dev 1.086
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

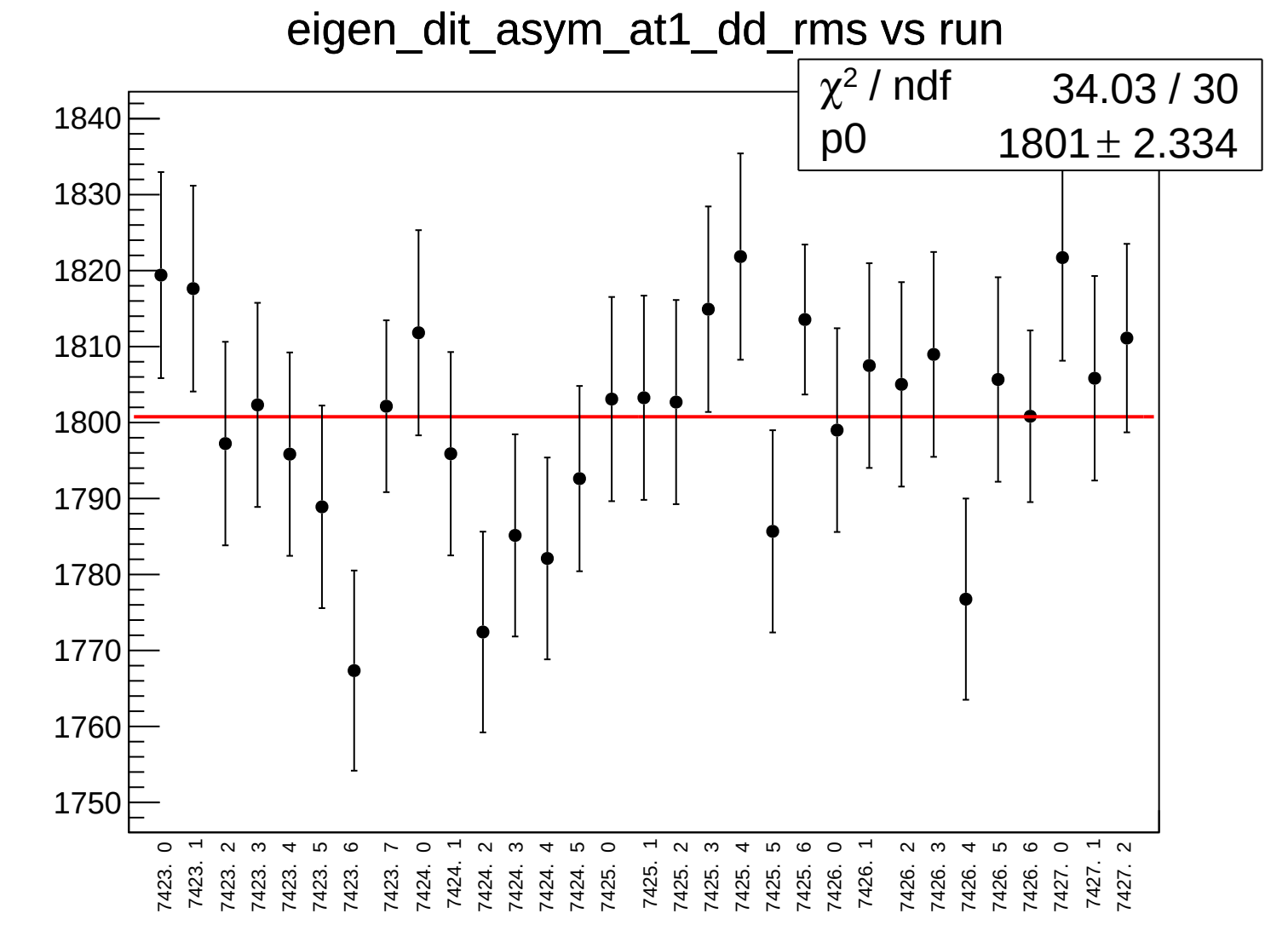

dit_asym_at1_dd_rms vs run
χ² / ndf 34.03 / 30
p0 1801 ± 2.334
1840
1830
1820
1810
1800
1790
1780
1770
1760
1750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

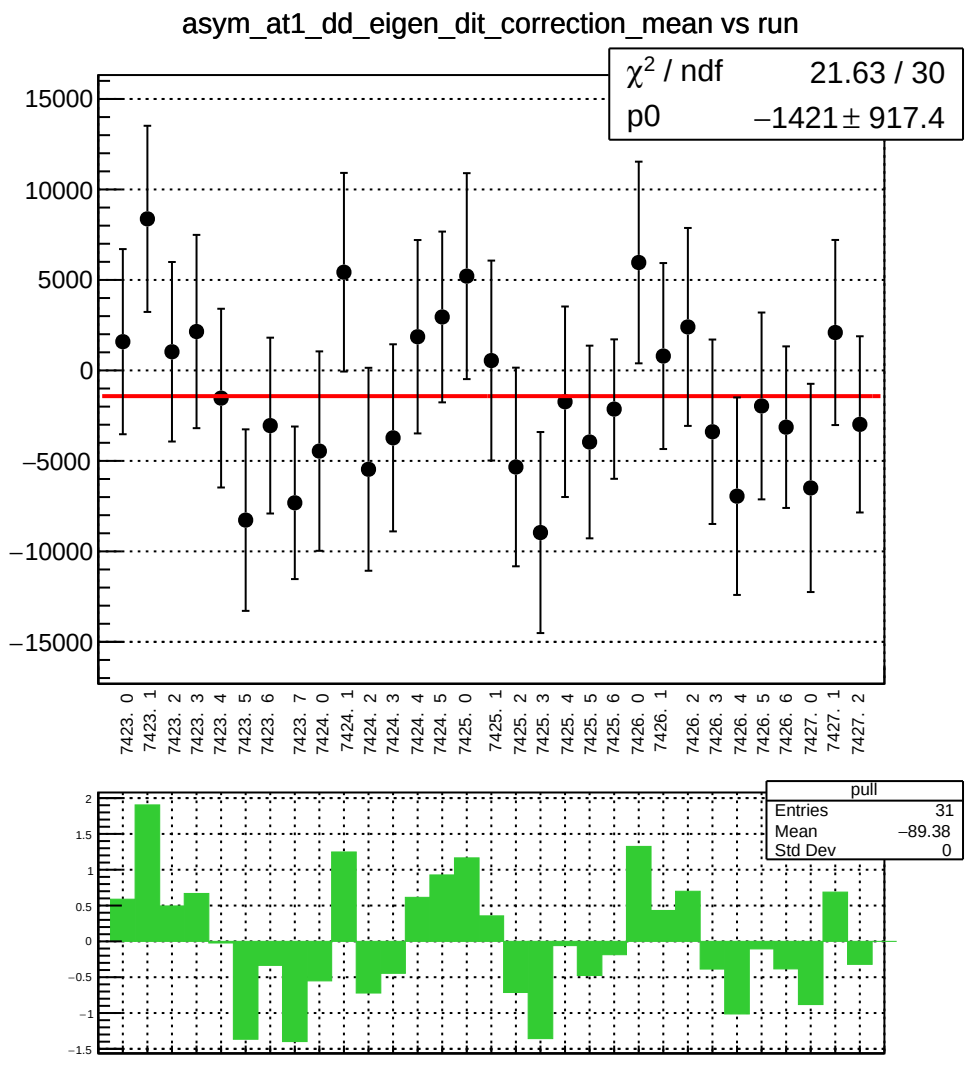

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 21.63 / 30
p0 −1421 ± 917.4
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −89.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01256
Std Dev 0.8352
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

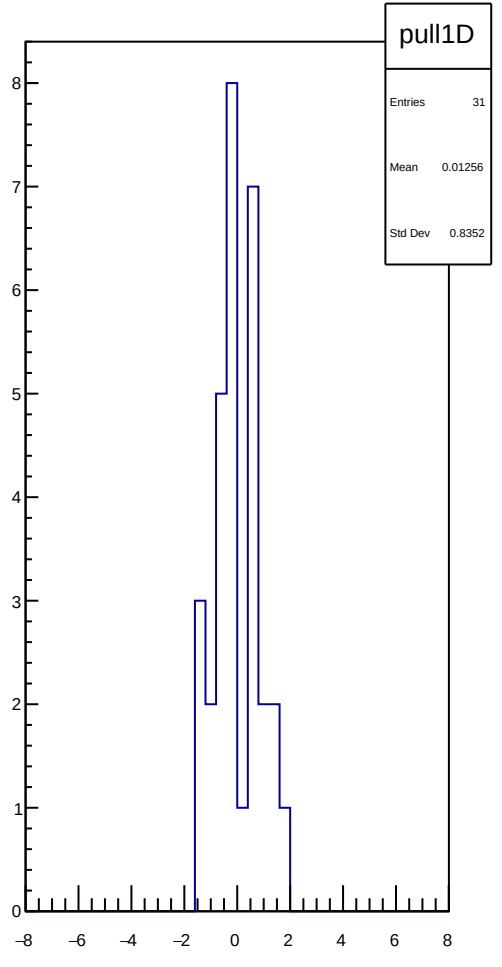

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1071 / 30
p0 500.1 ± 0.6487
540
520
500
480
460
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

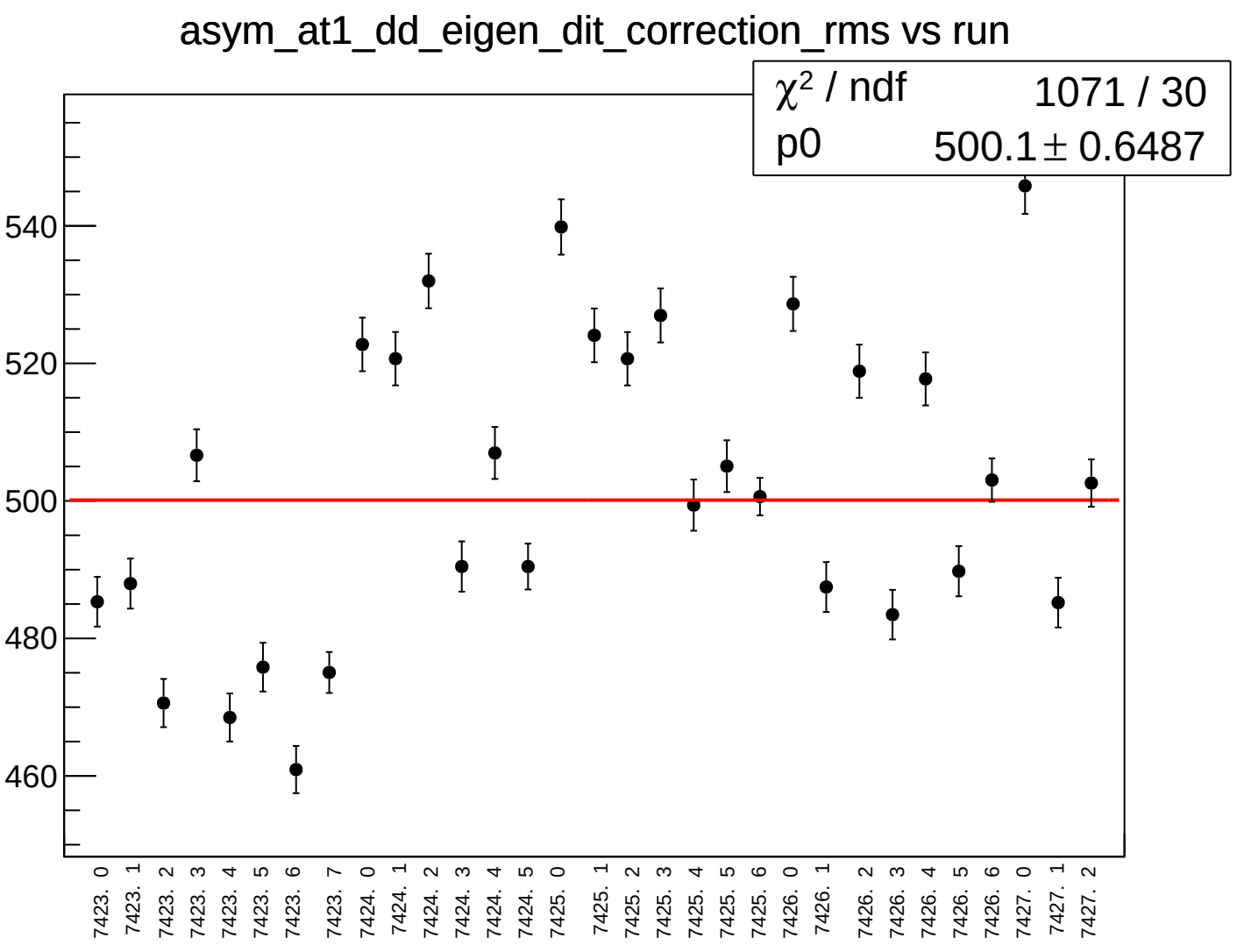

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 36.55 / 30
p0 5018 ± 3300
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −204.8
Std Dev 0
2
1
0
−1
−2
−3

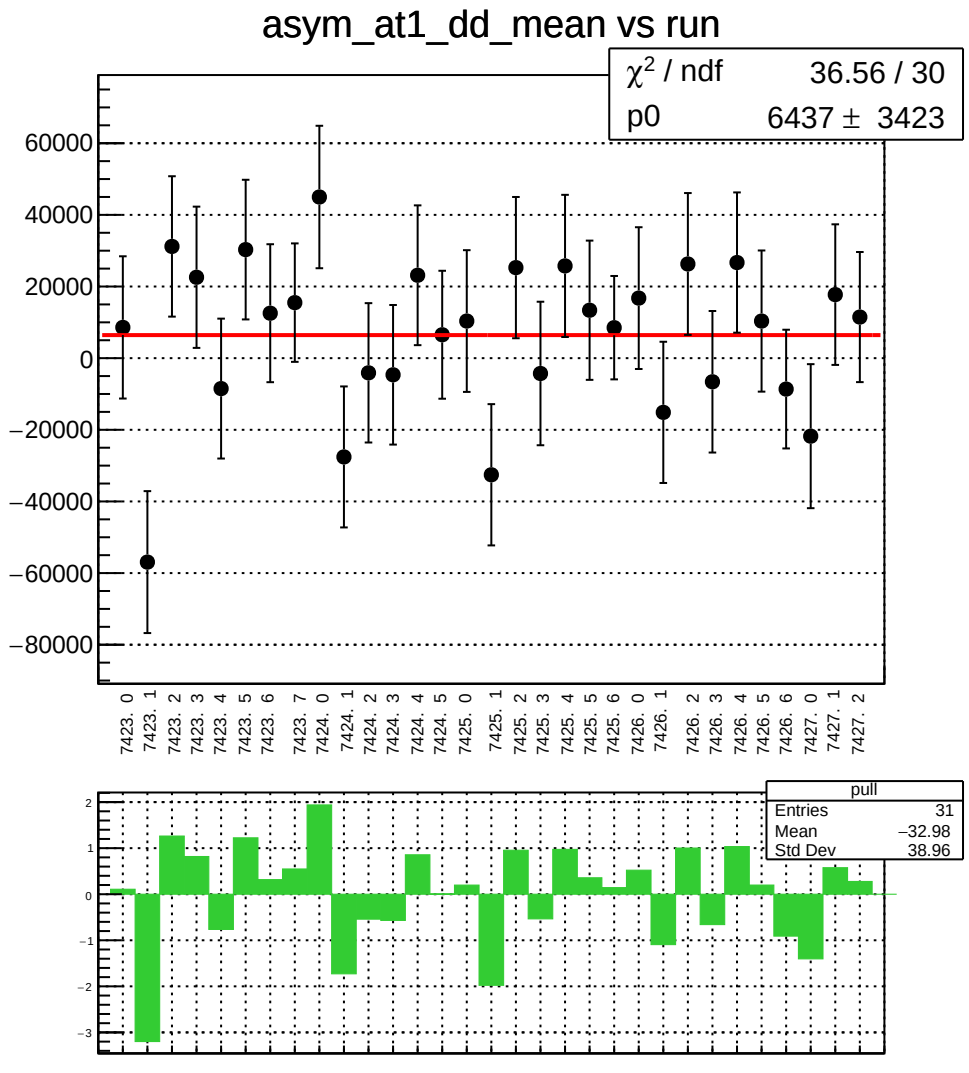

pull1D
Entries 31
Mean 0.001287
Std Dev 1.086
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

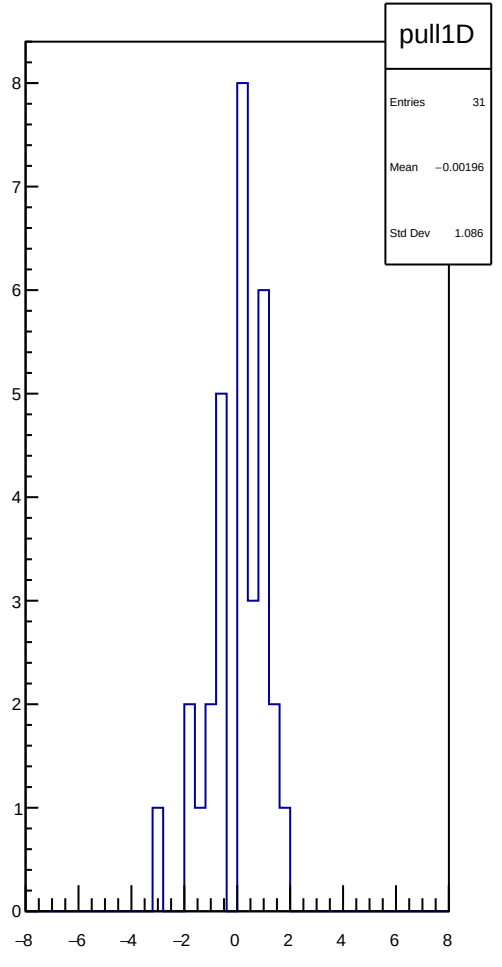

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 34.03 / 30
p0 1801 ± 2.334
1840
1830
1820
1810
1800
1790
1780
1770
1760
1750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

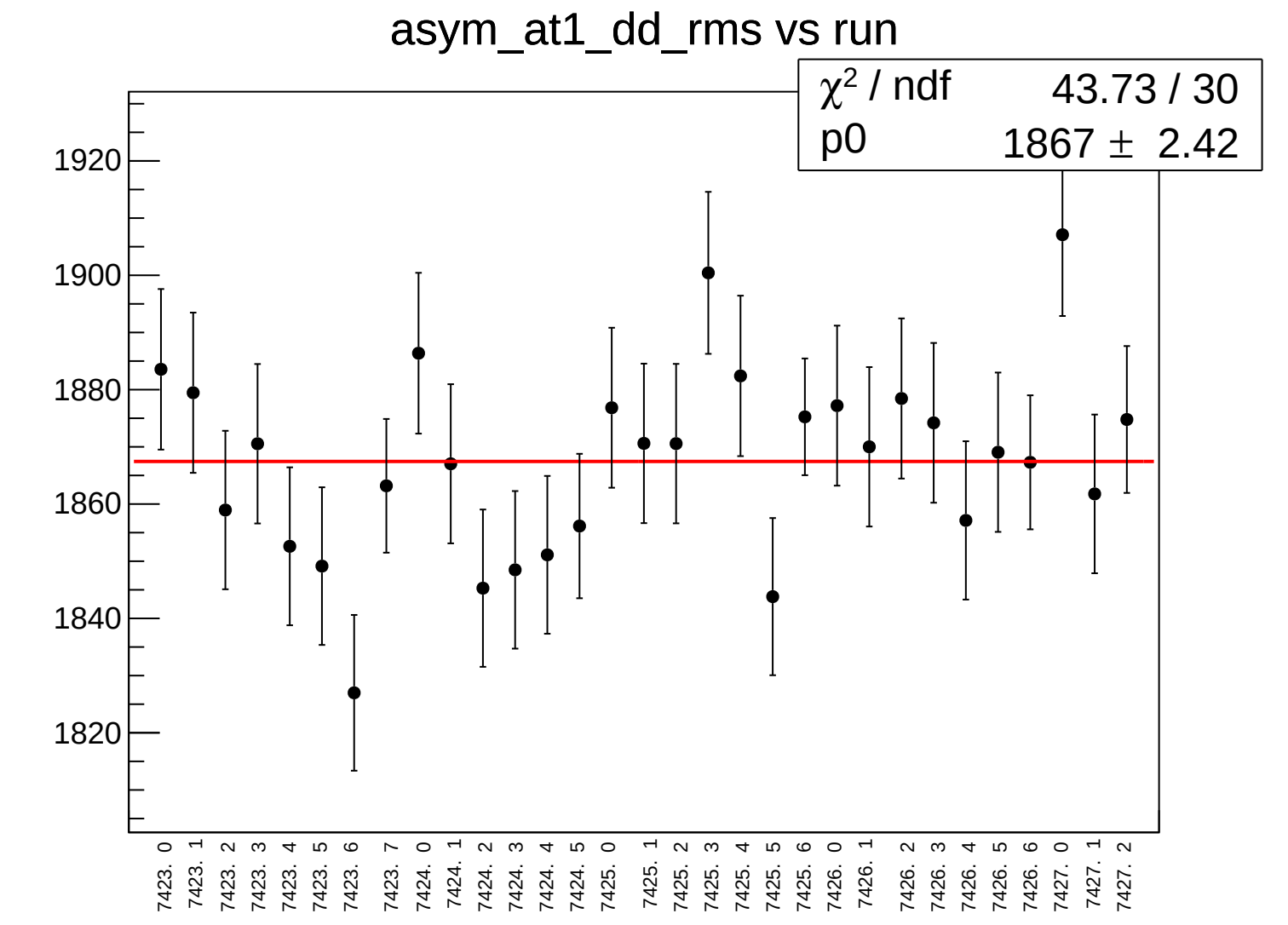

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 21.63 / 30
p0 −1421 ± 917.4
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −89.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

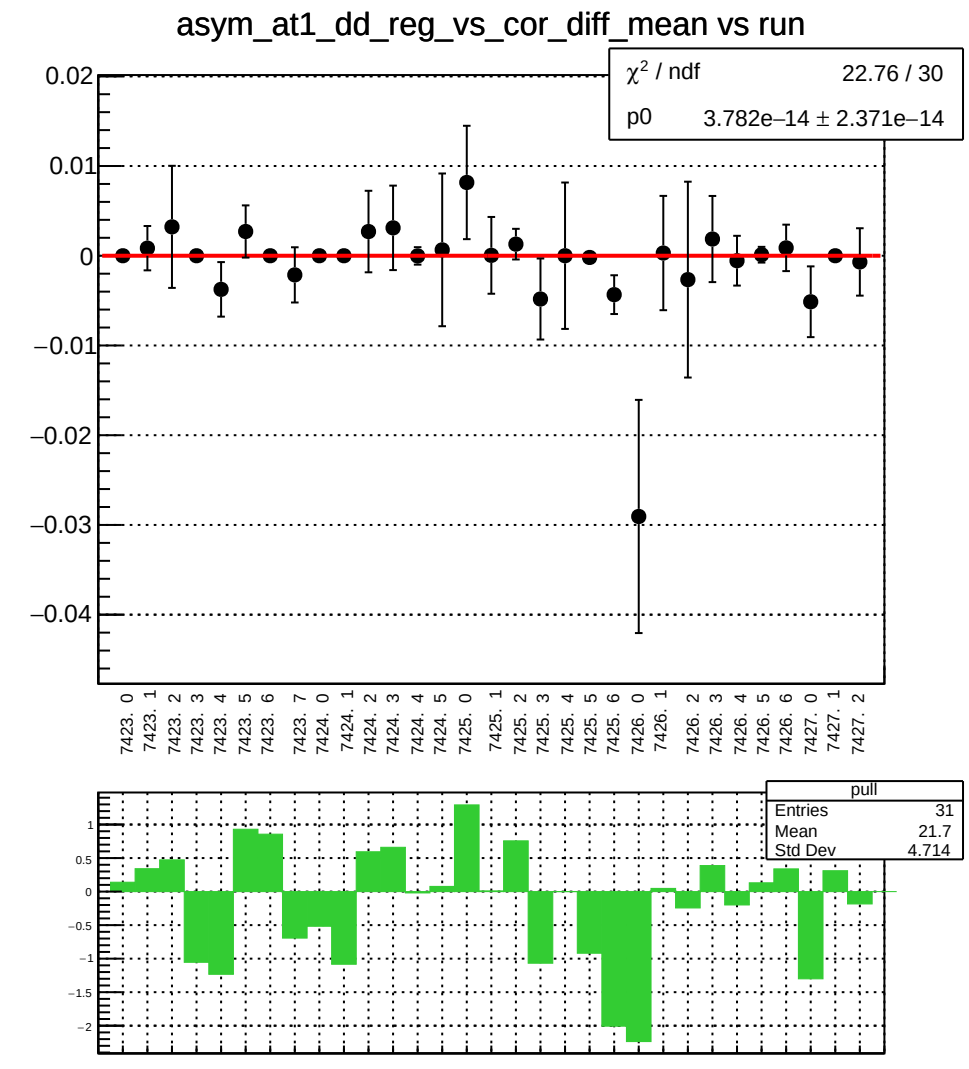

pull1D
Entries 31
Mean 0.01256
Std Dev 0.8352
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

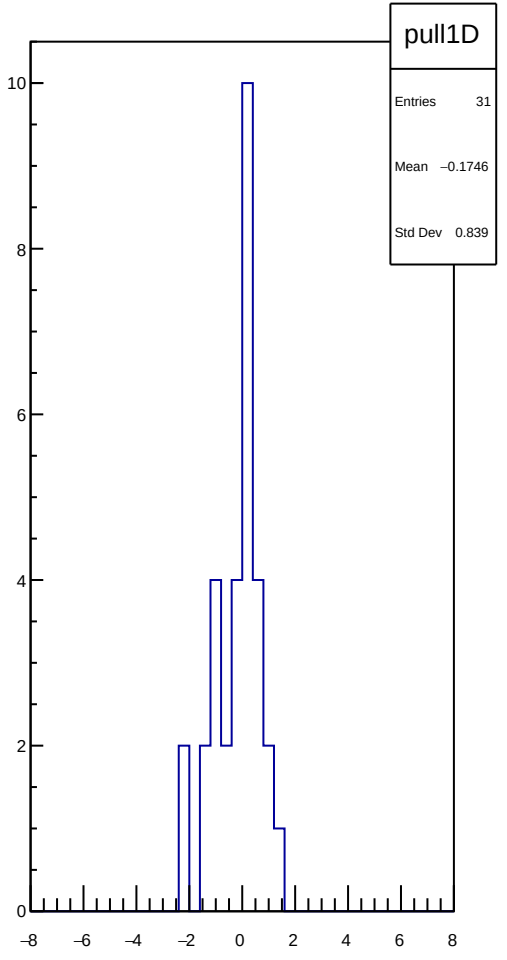

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1071 / 30
p0 500.1 ± 0.6487
540
520
500
480
460
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

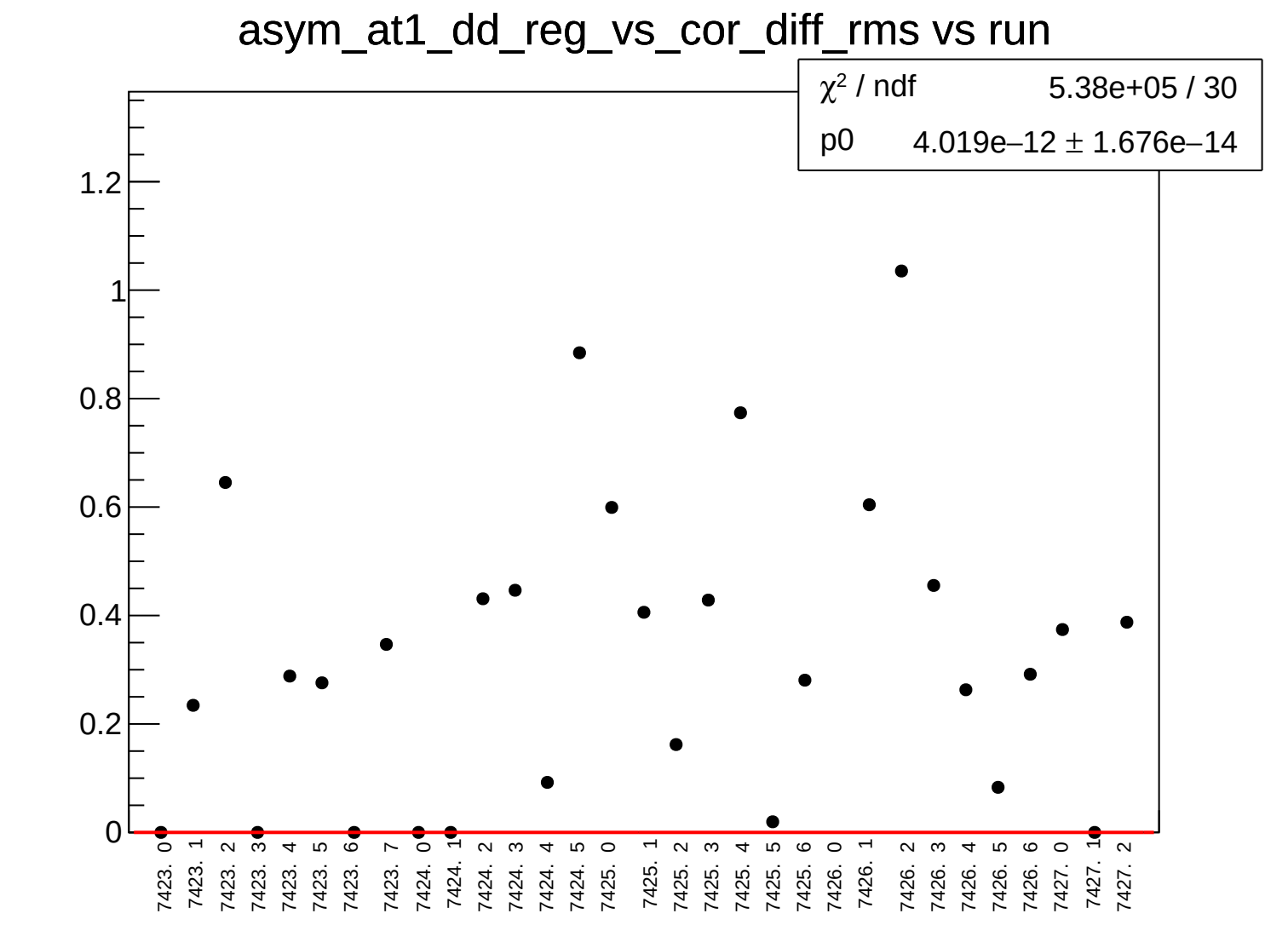

asym_at1_dd_mean vs run
χ² / ndf 36.56 / 30
p0 6437 ± 3423
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −32.98
Std Dev 38.96
2
1
0
−1
−2
−3

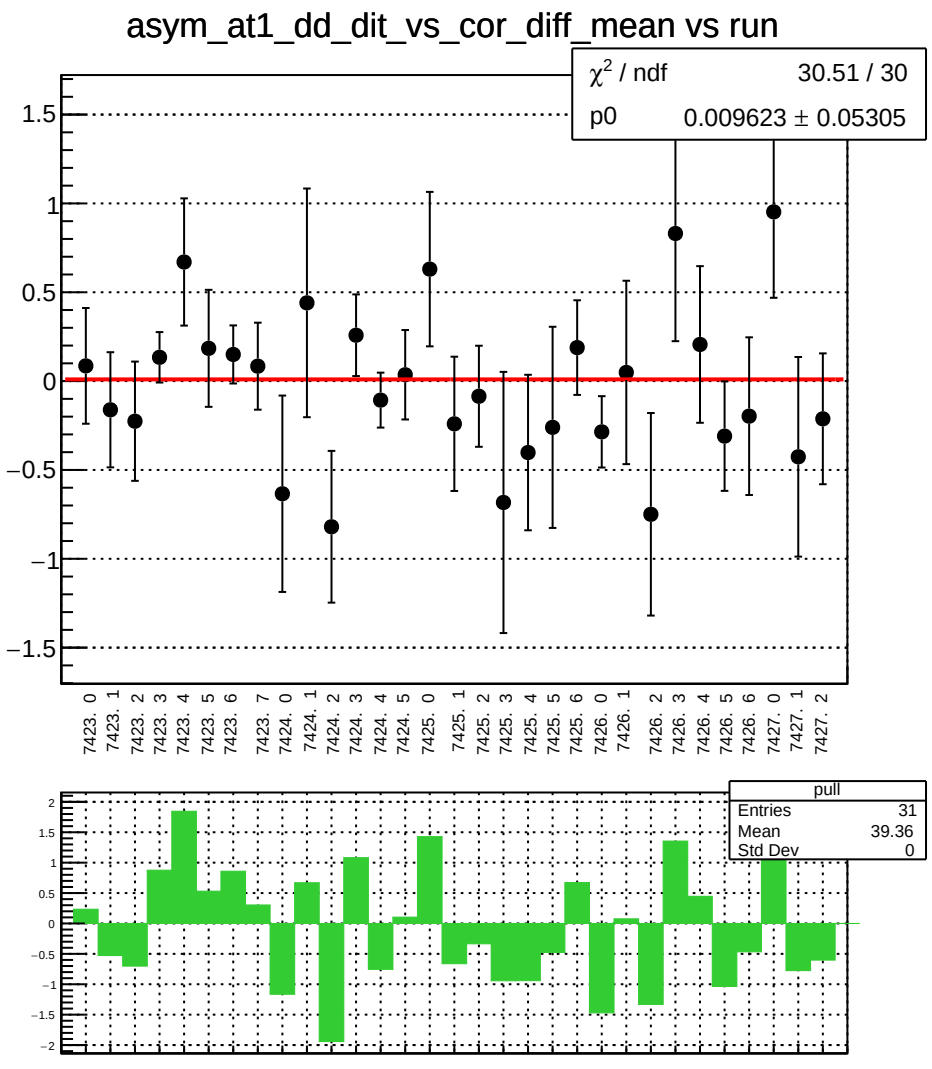

pull1D
Entries 31
Mean −0.00196
Std Dev 1.086
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

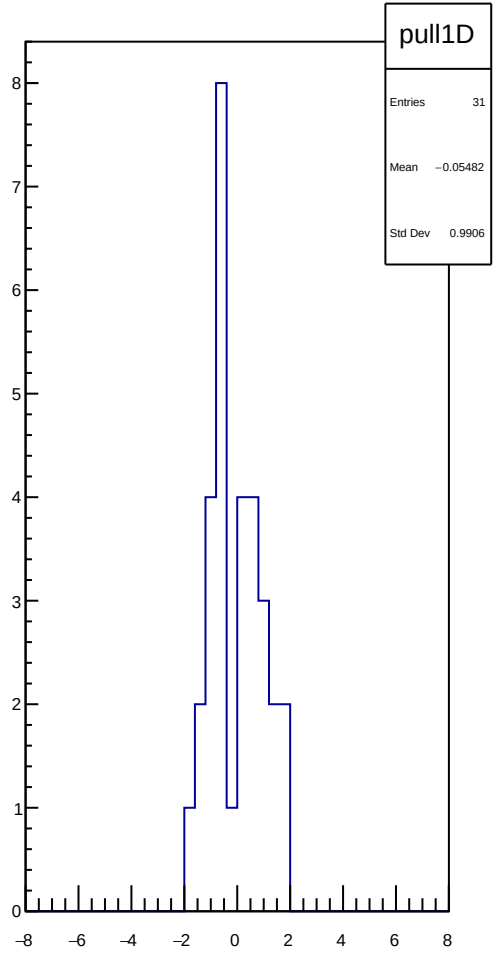

asym_at1_dd_rms vs run
χ² / ndf 43.73 / 30
p0 1867 ± 2.42
1920
1900
1880
1860
1840
1820
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

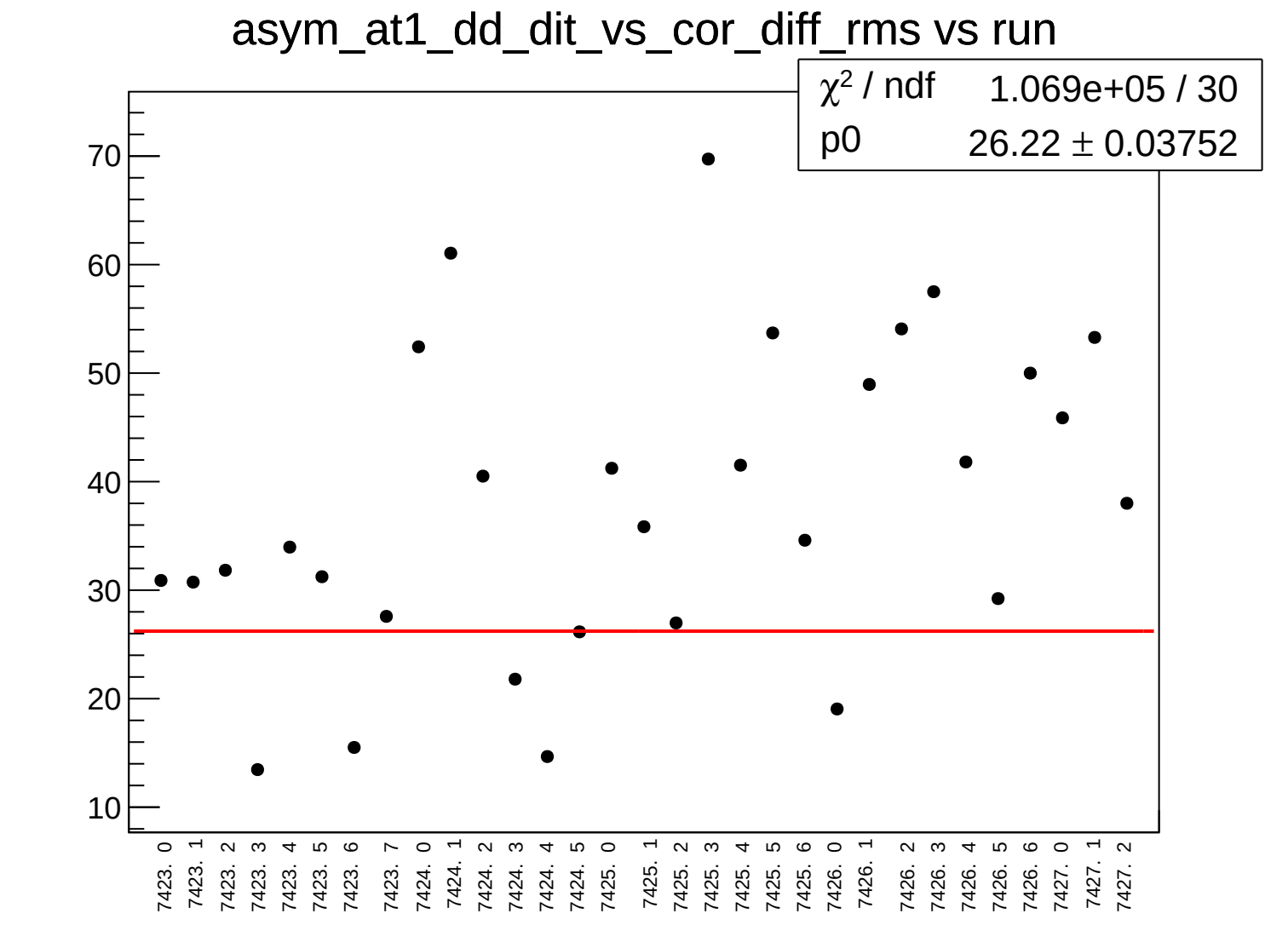

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.76 / 30
p0 3.782e−14 ± 2.371e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 21.7
Std Dev 4.714
1
0.5
0
−0.5
−1
−1.5
−2

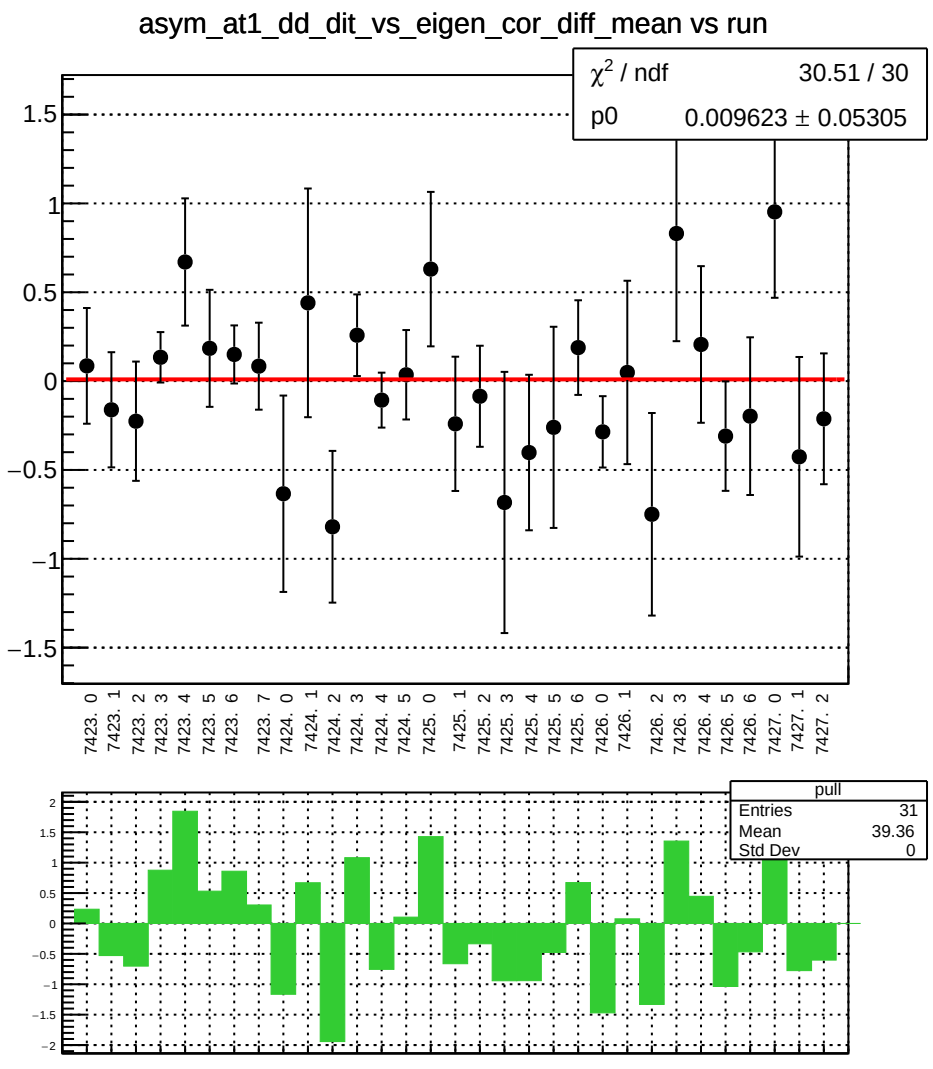

pull1D
Entries 31
Mean −0.1746
Std Dev 0.839
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

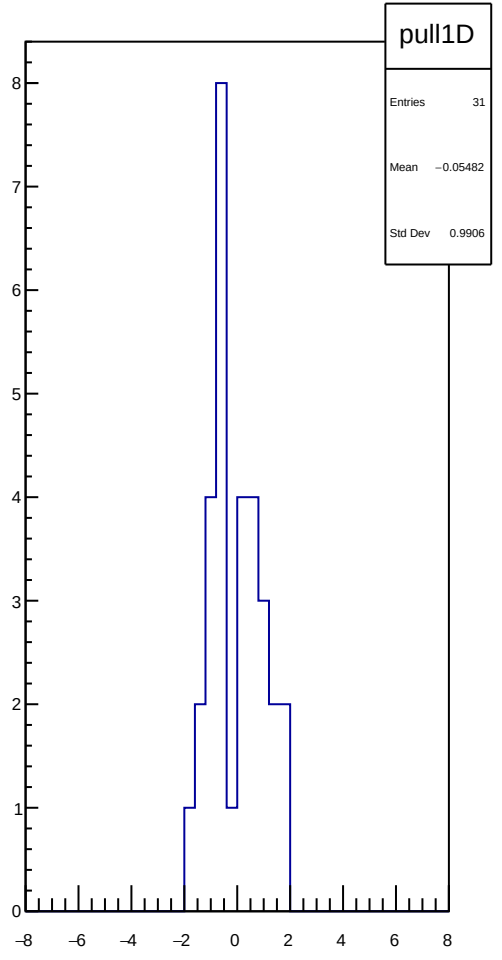

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.38e+05 / 30
p0 4.019e−12 ± 1.676e−14
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

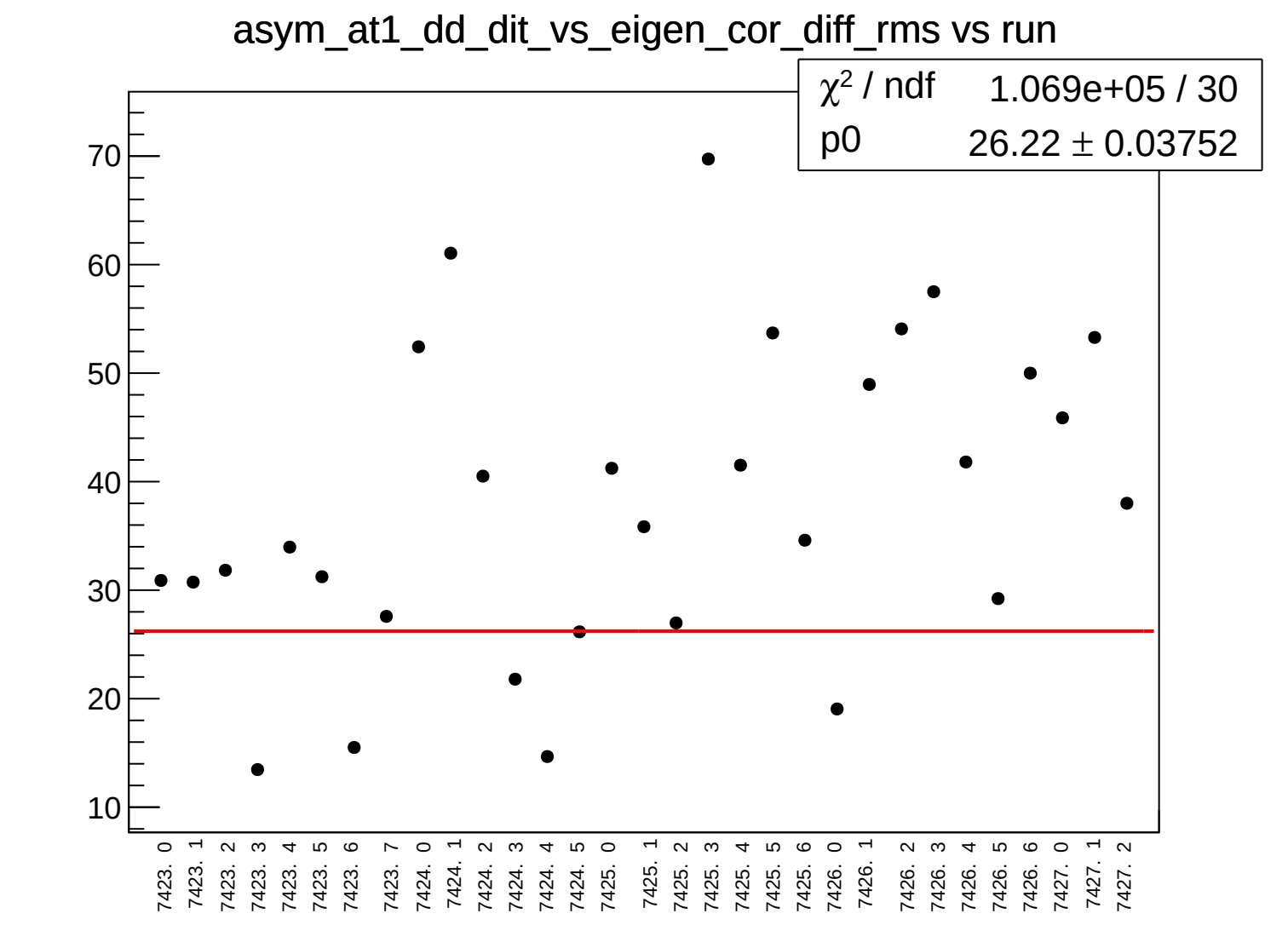

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 30.51 / 30
p0 0.009623 ± 0.05305
pull
Entries 31
Mean 39.36
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

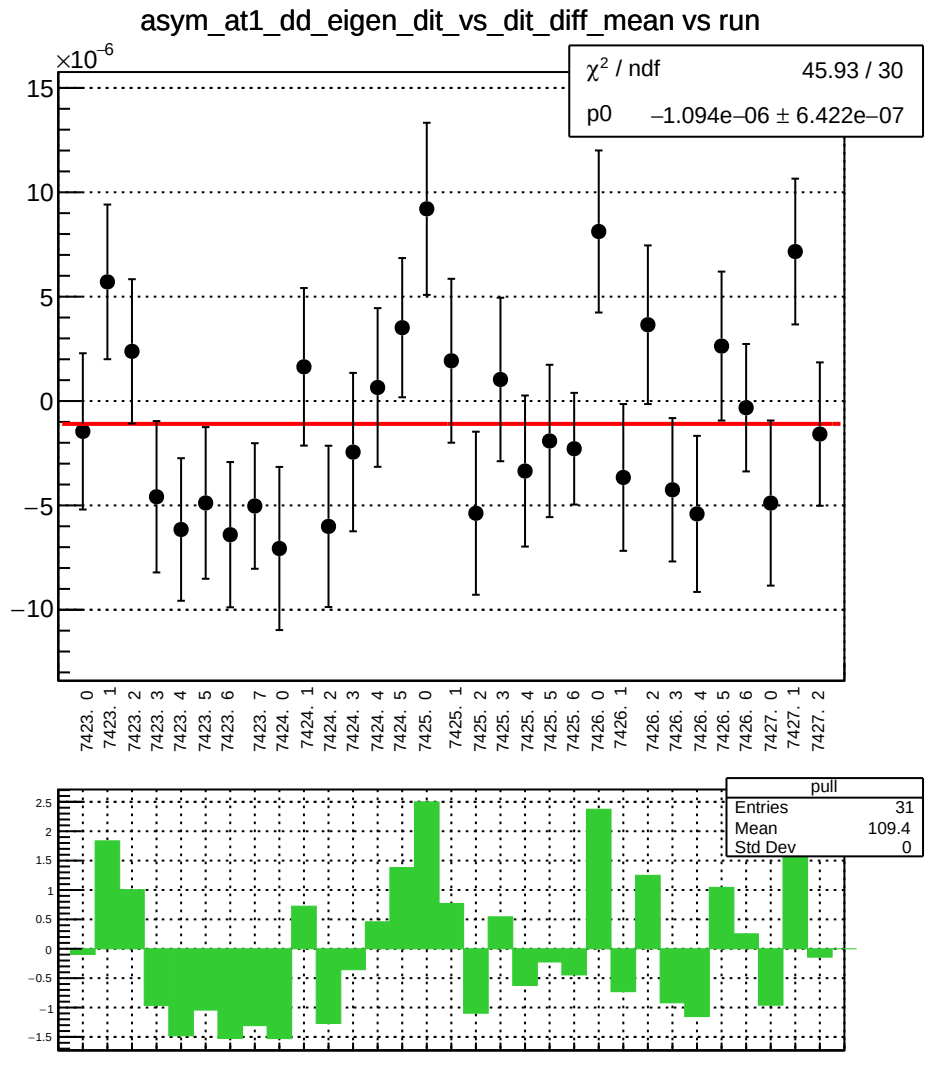

pull1D
Entries 31
Mean −0.05482
Std Dev 0.9906

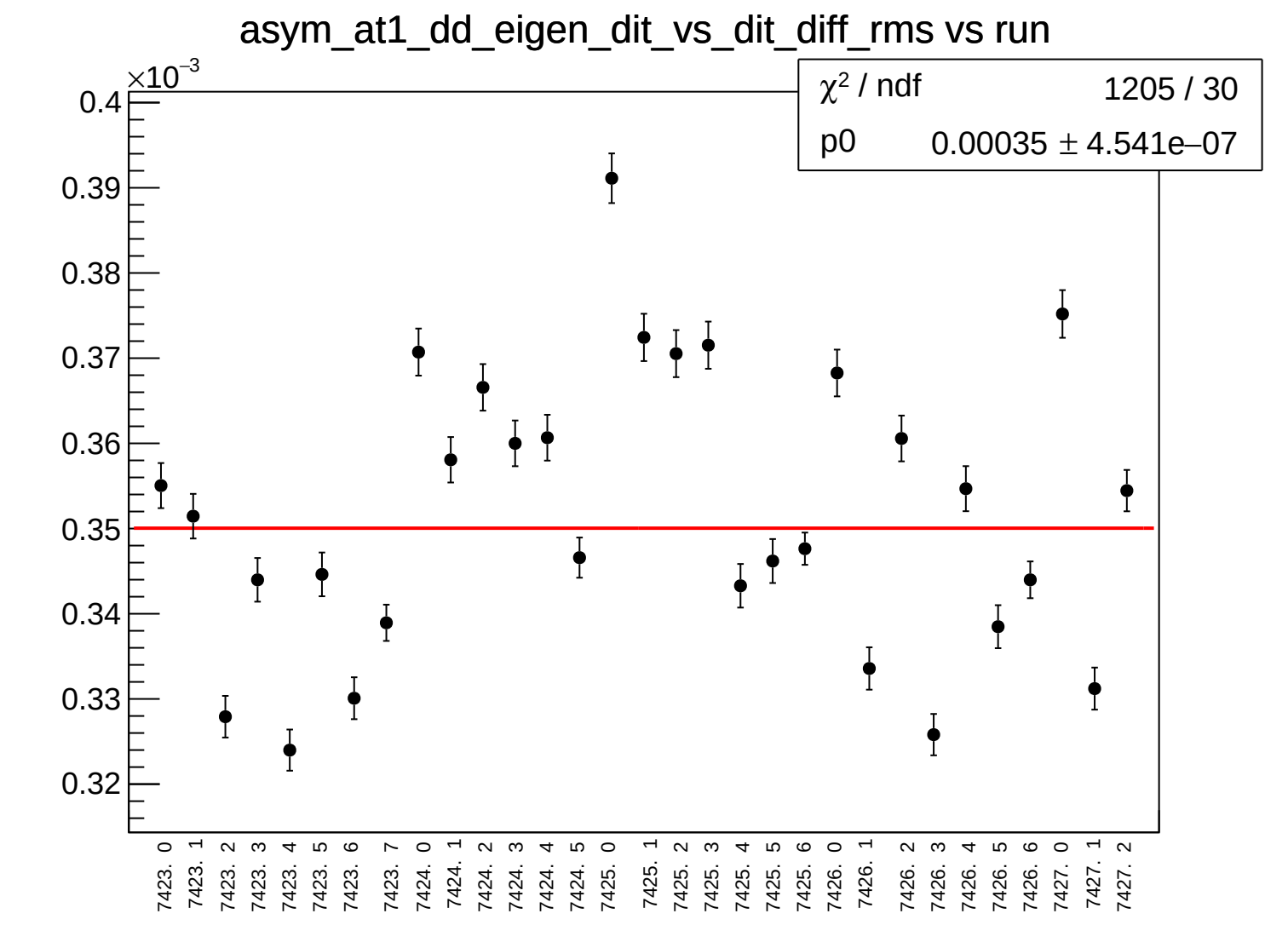

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.069e+05 / 30
p0 26.22 ± 0.03752
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

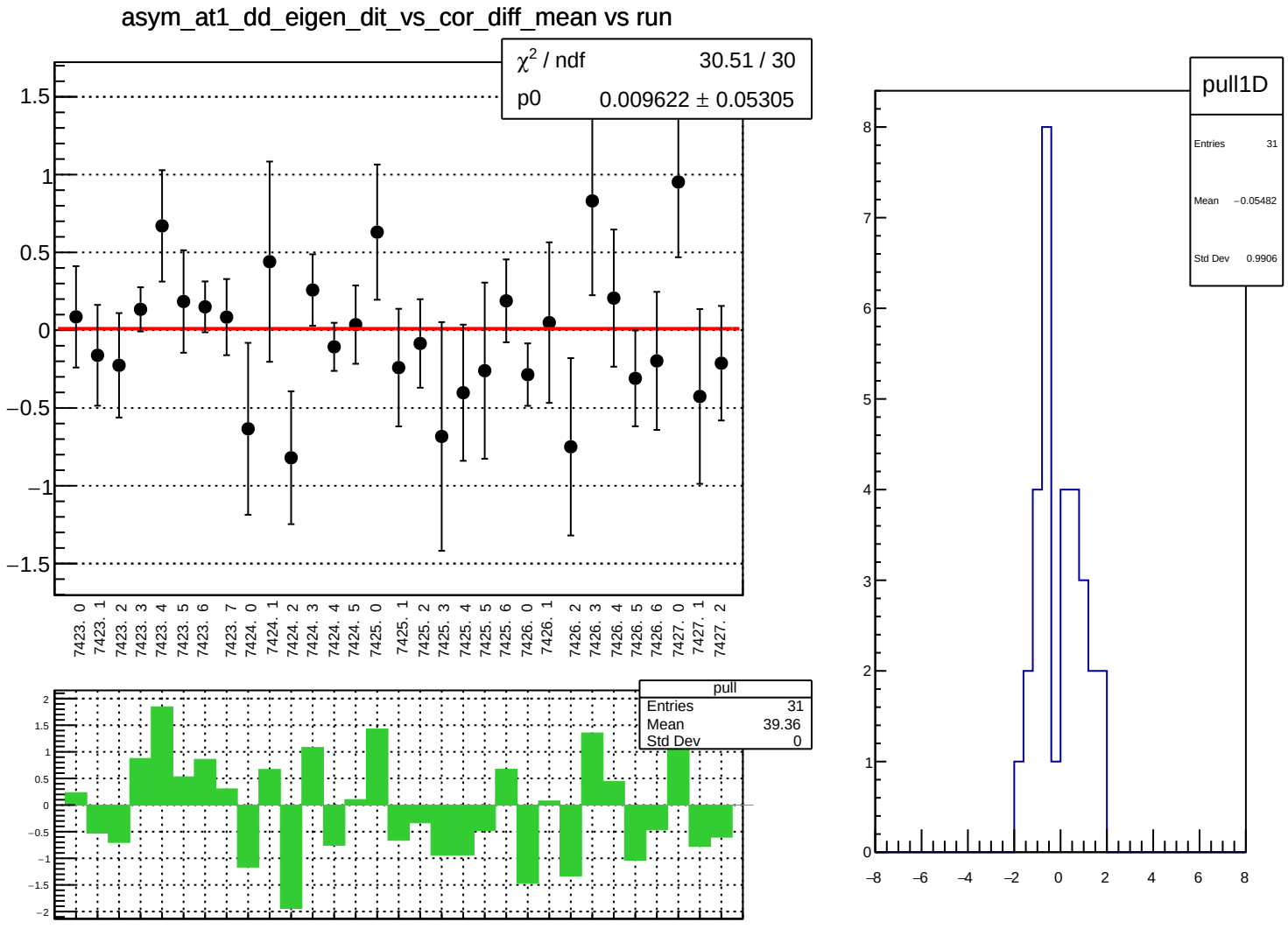

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.51 / 30
p0 0.009623 ± 0.05305
pull
Entries 31
Mean 39.36
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

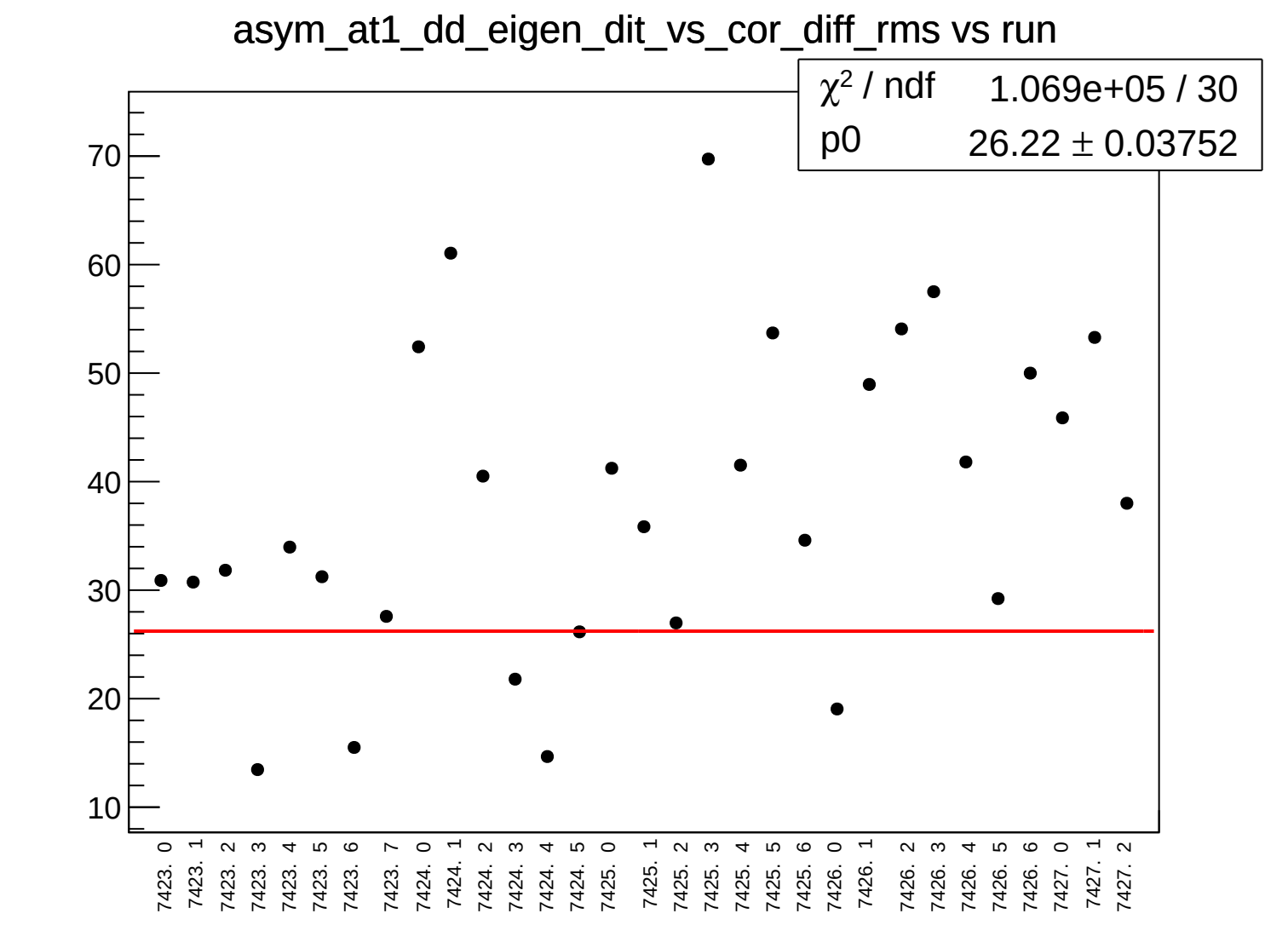

pull1D
Entries 31
Mean −0.05482
Std Dev 0.9906

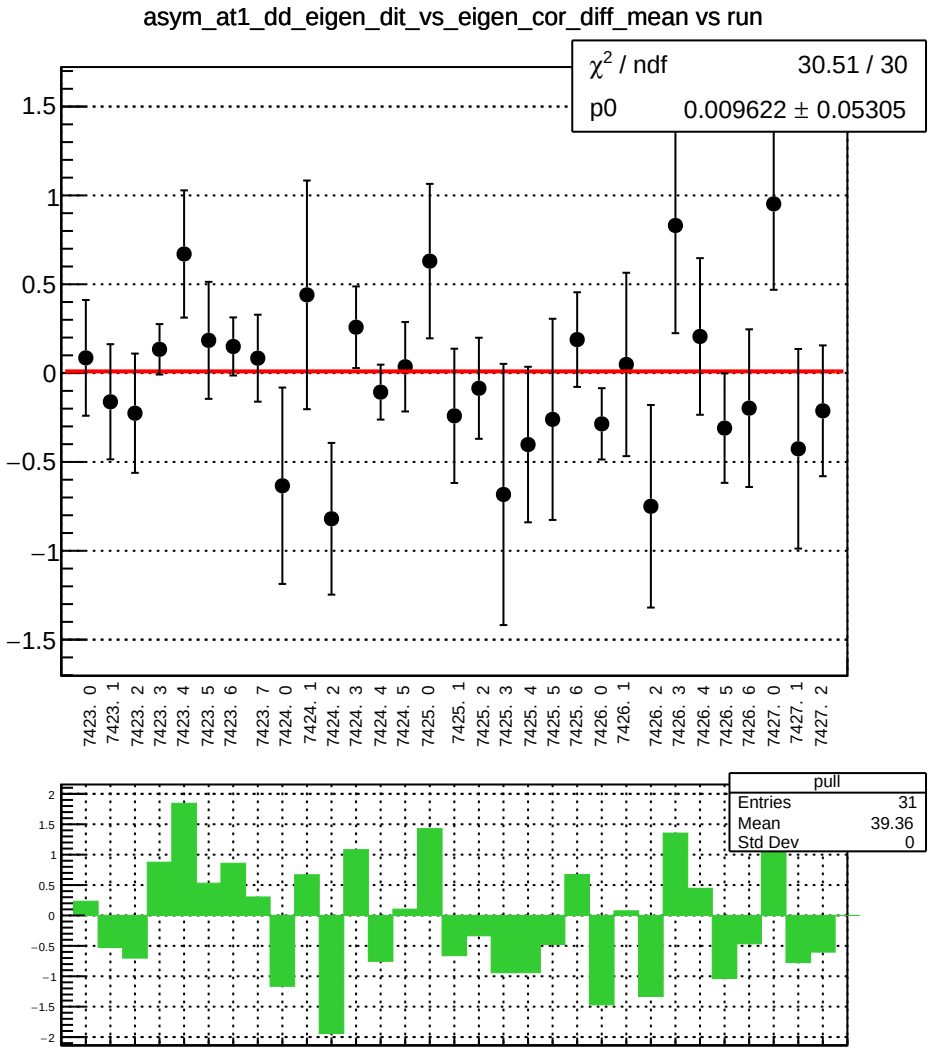

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.069e+05 / 30
p0 26.22 ± 0.03752
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

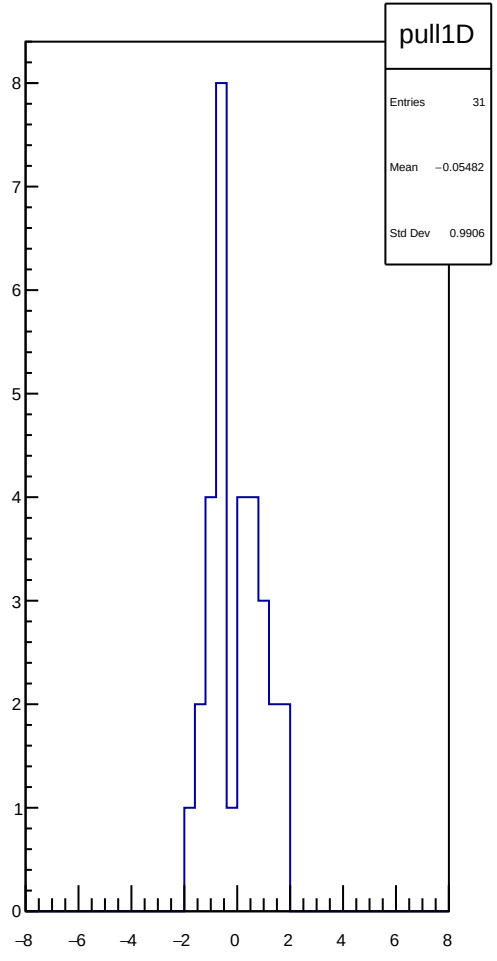

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 45.93 / 30
p0 −1.094e−06 ± 6.422e−07
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 109.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.02062
Std Dev 1.217
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

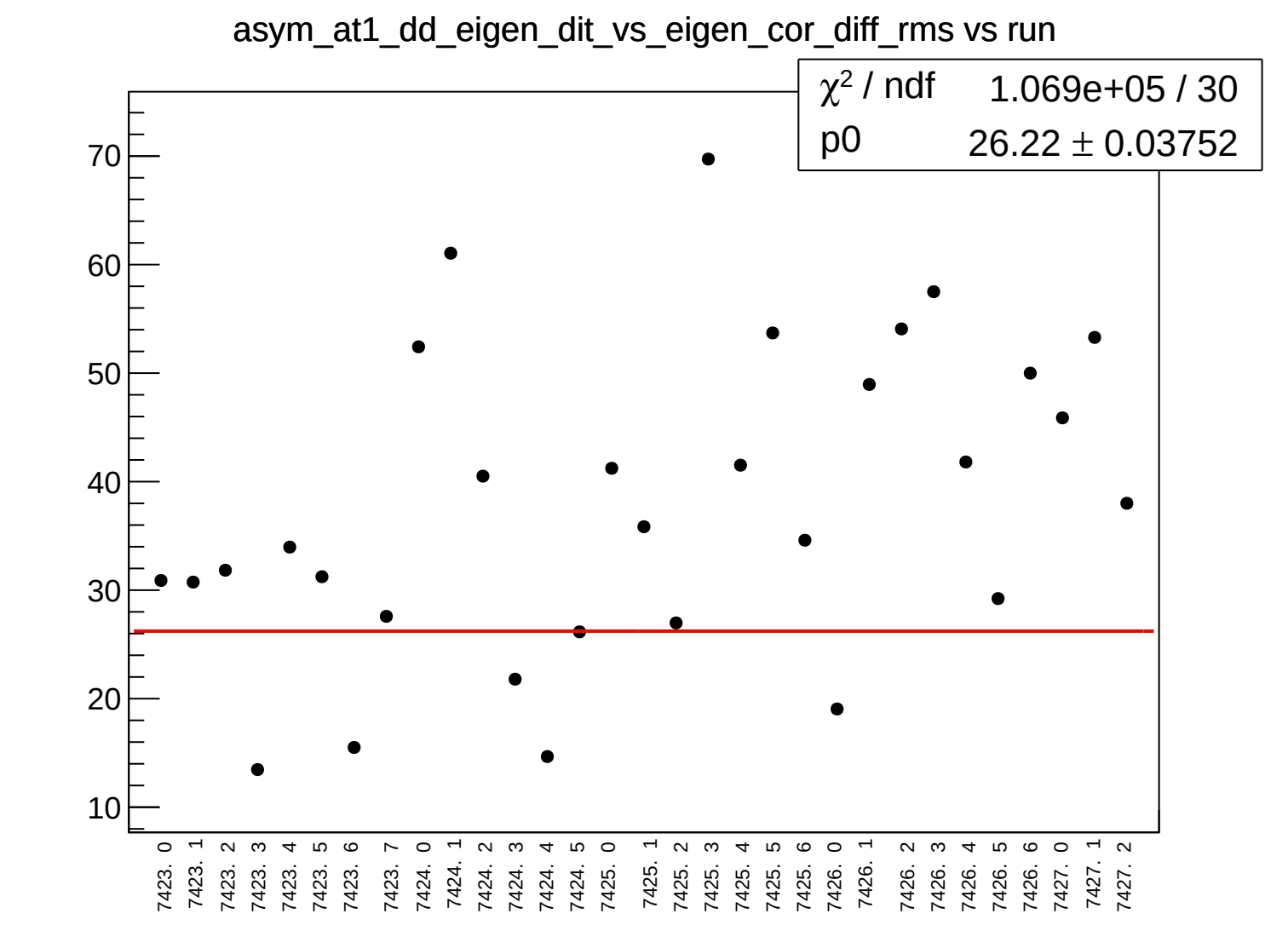

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1205 / 30
p0 0.00035 ± 4.541e–07
0.4
0.39
0.38
0.37
0.36
0.35
0.34
0.33
0.32
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

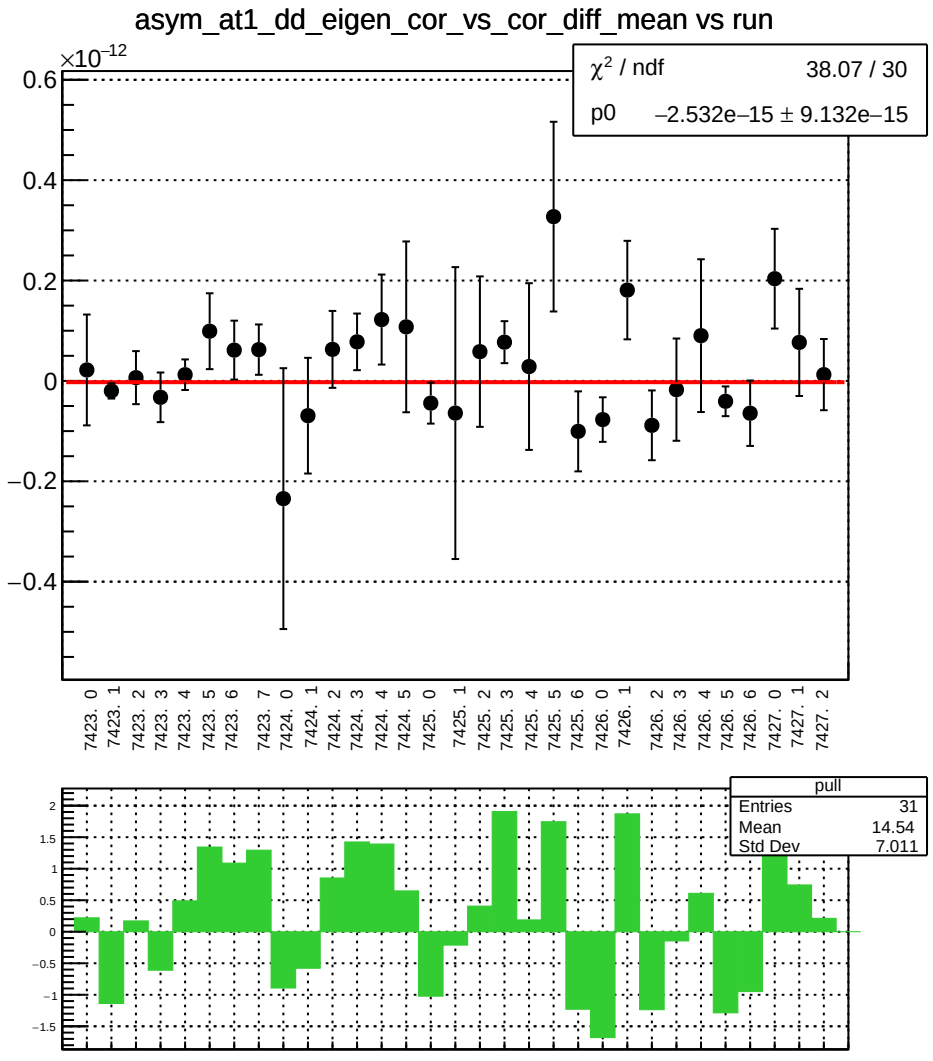

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.51 / 30
p0 0.009622 ± 0.05305
pull
Entries 31
Mean 39.36
Std Dev 0
pull1D
Entries 31
Mean −0.05482
Std Dev 0.9906

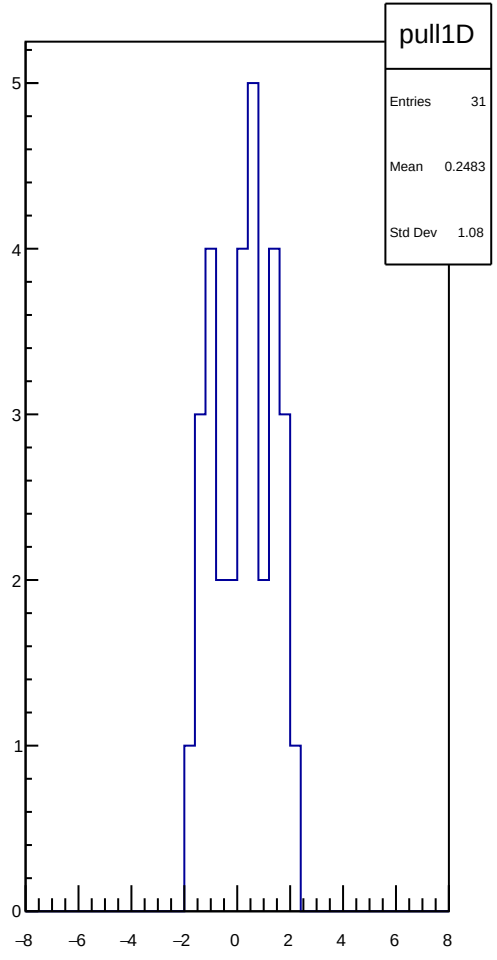

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.069e+05 / 30
p0 26.22 ± 0.03752
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

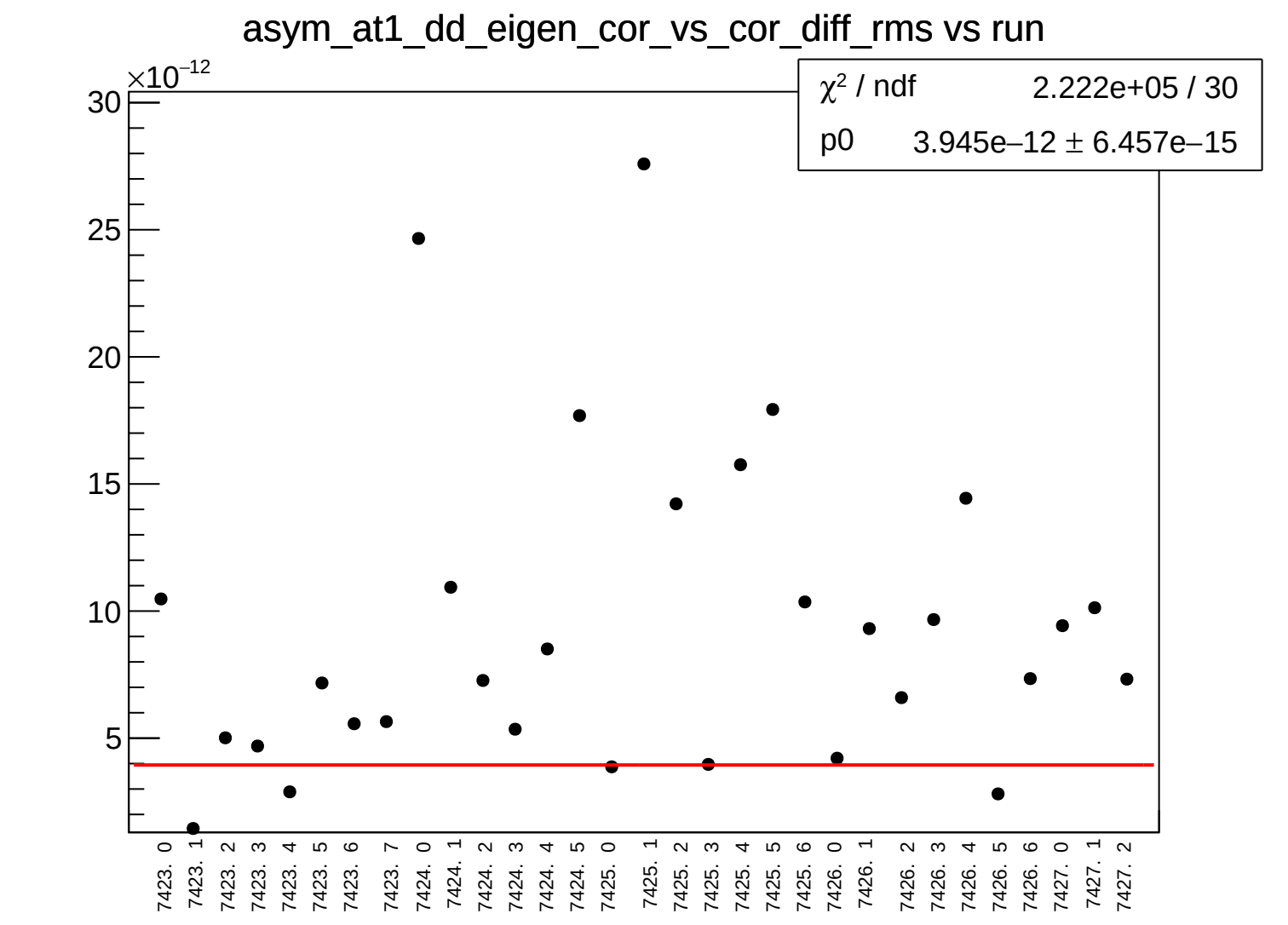

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.51 / 30
p0 0.009622 ± 0.05305
pull
Entries 31
Mean 39.36
Std Dev 0

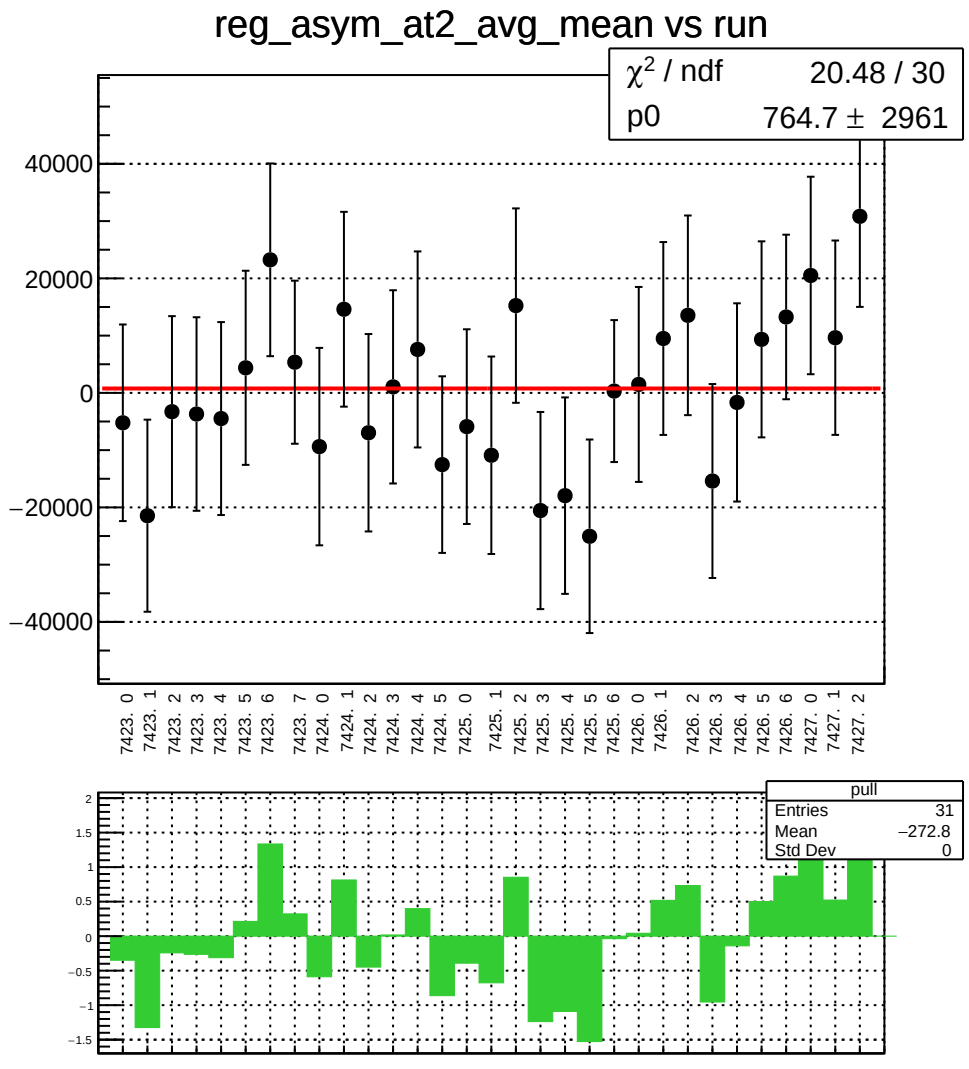

pull1D
Entries 31
Mean −0.05482
Std Dev 0.9906

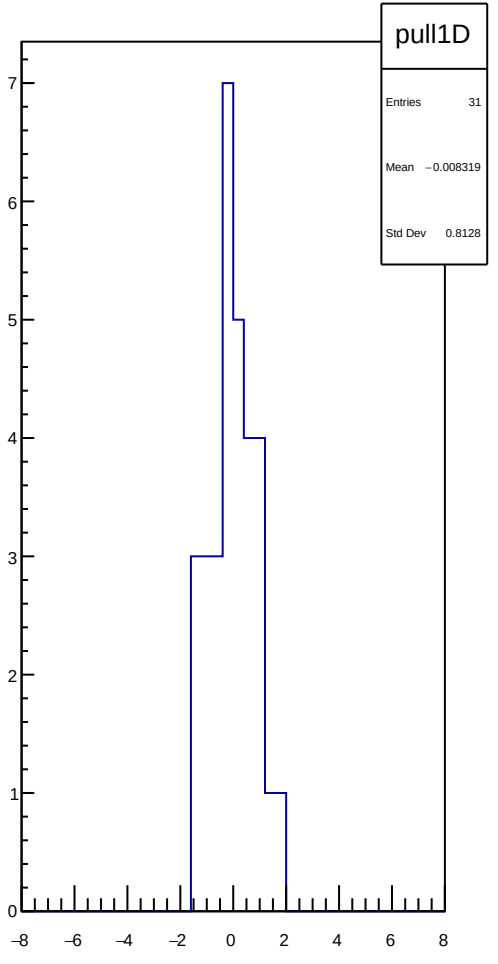

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.069e+05 / 30
p0 26.22 ± 0.03752
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

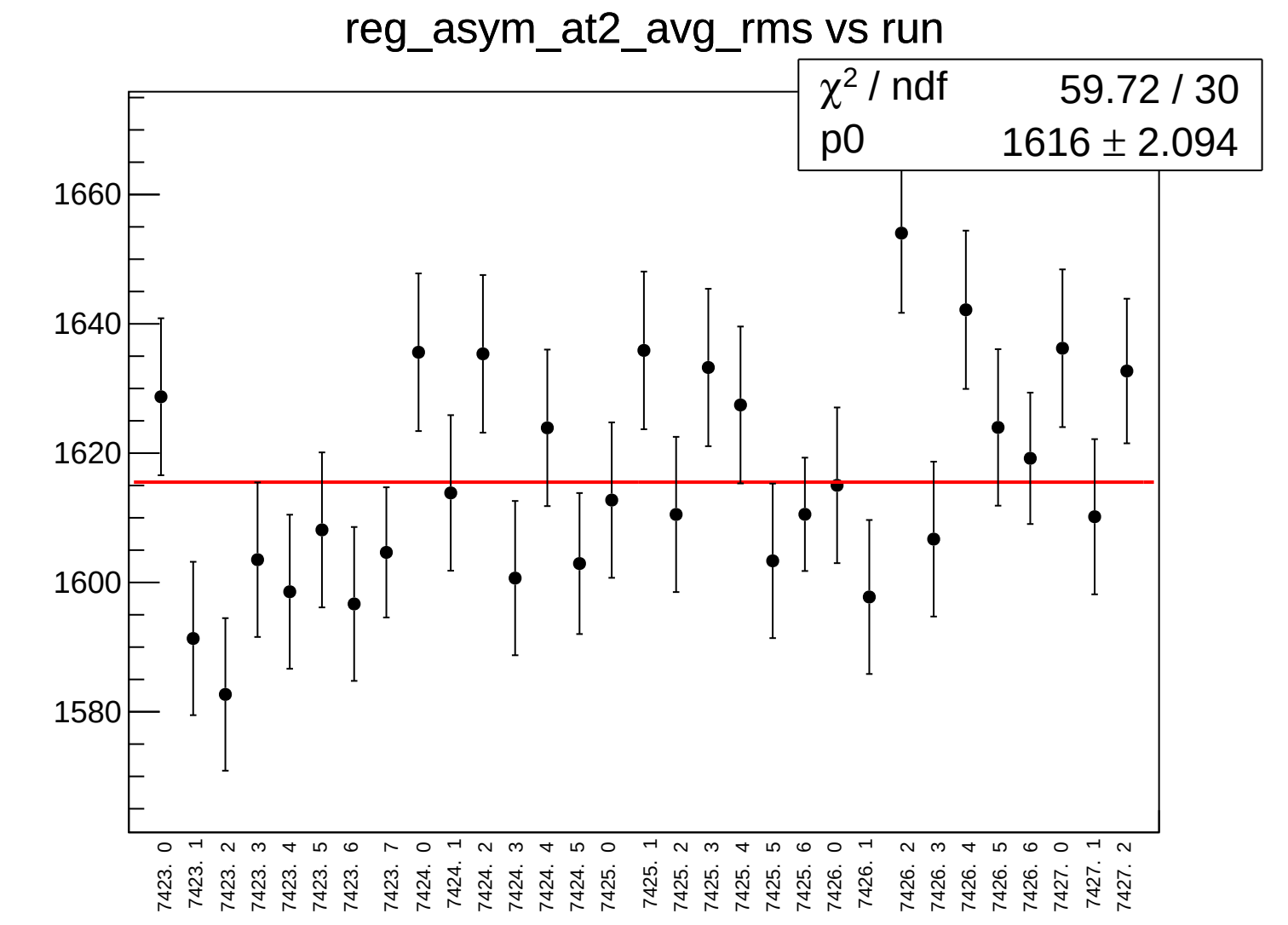

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.07 / 30
p0 −2.532e−15 ± 9.132e−15
0.6
0.4
0.2
0
−0.2
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.54
Std Dev 7.011
2
1.5
1
0.5
0
−0.5
−1
−1.5

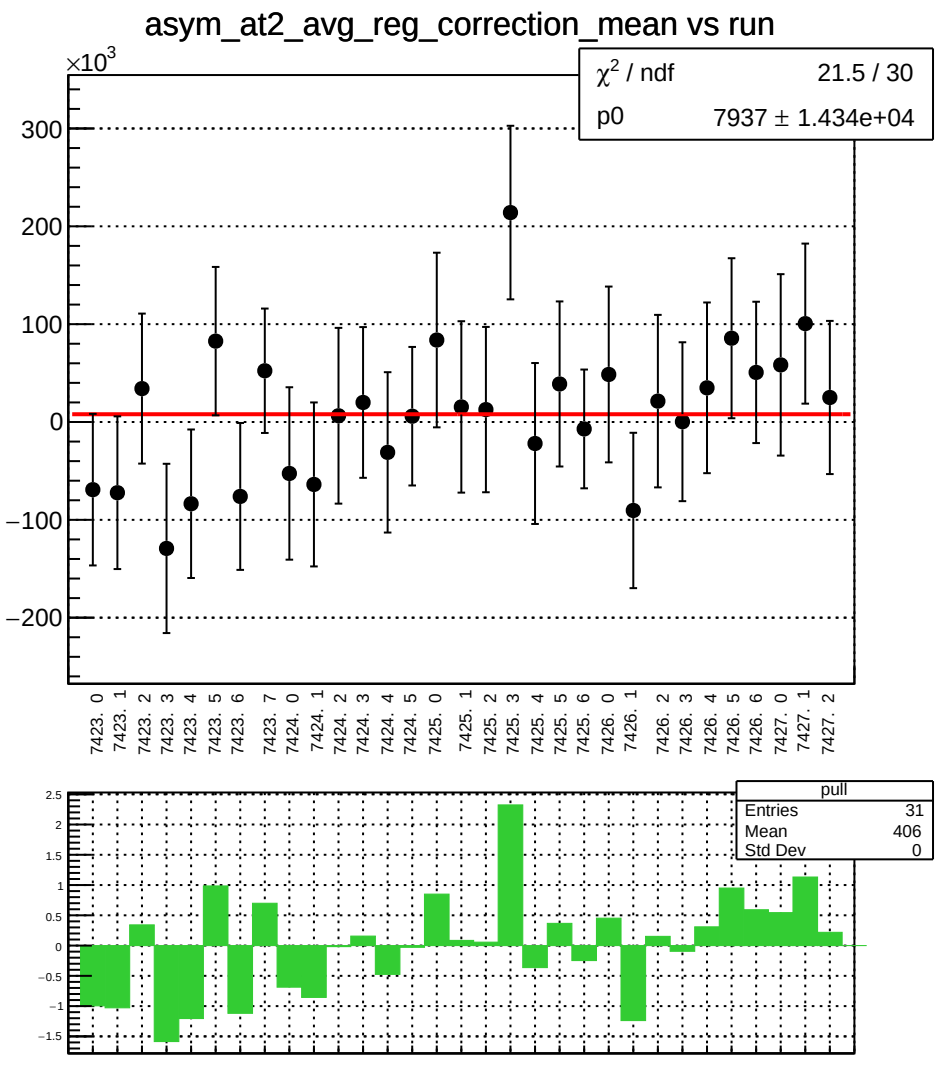

pull1D
Entries 31
Mean 0.2483
Std Dev 1.08
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

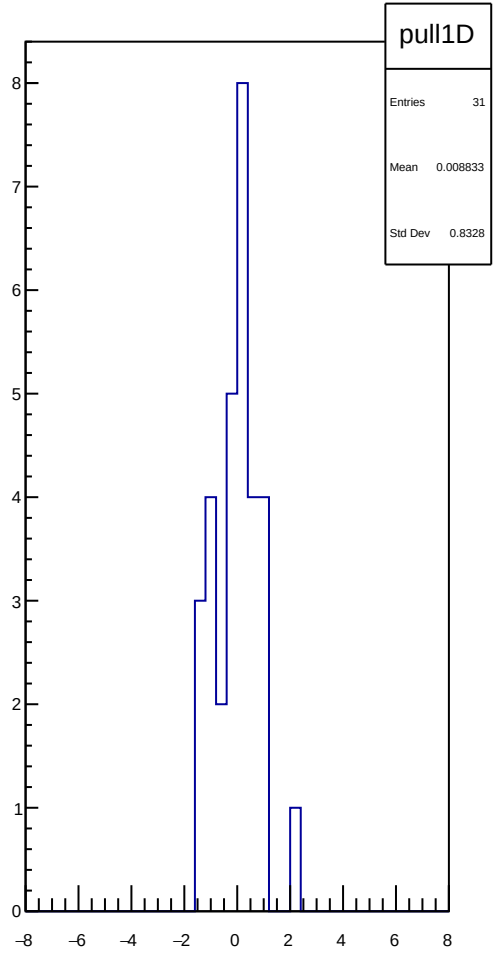

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.222e+05 / 30
p0 3.945e−12 ± 6.457e−15
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

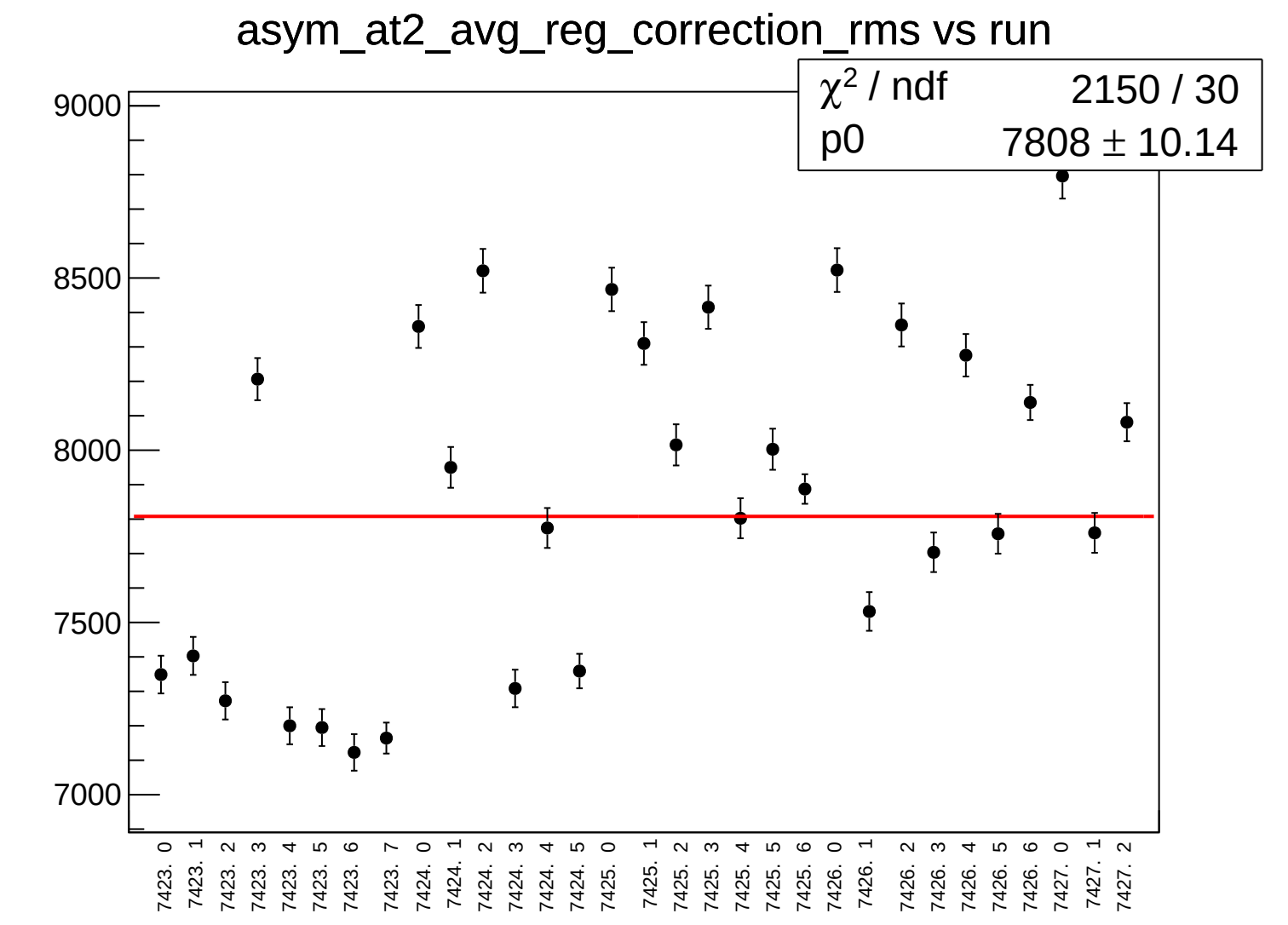

reg_asym_at2_avg_mean vs run
χ² / ndf 20.48 / 30
p0 764.7 ± 2961
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −272.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

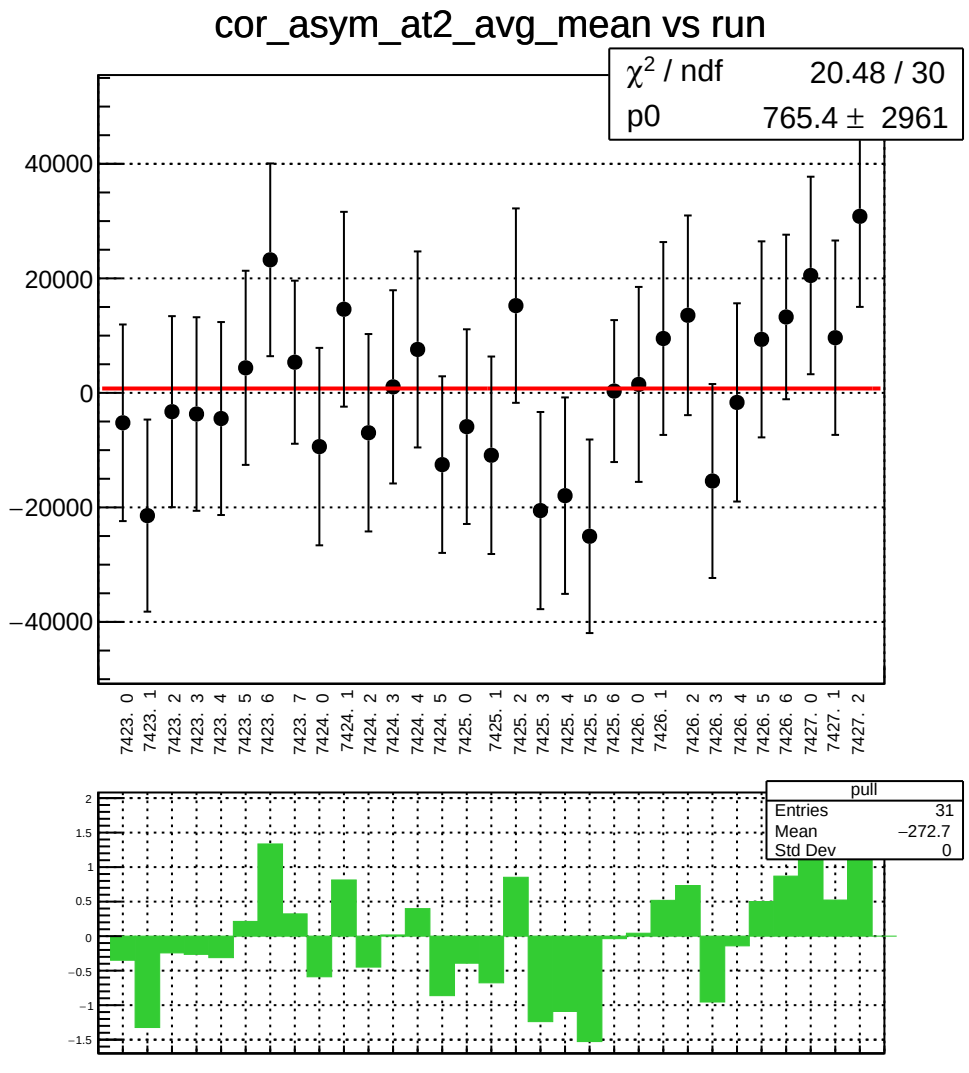

pull1D
Entries 31
Mean −0.008319
Std Dev 0.8128
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

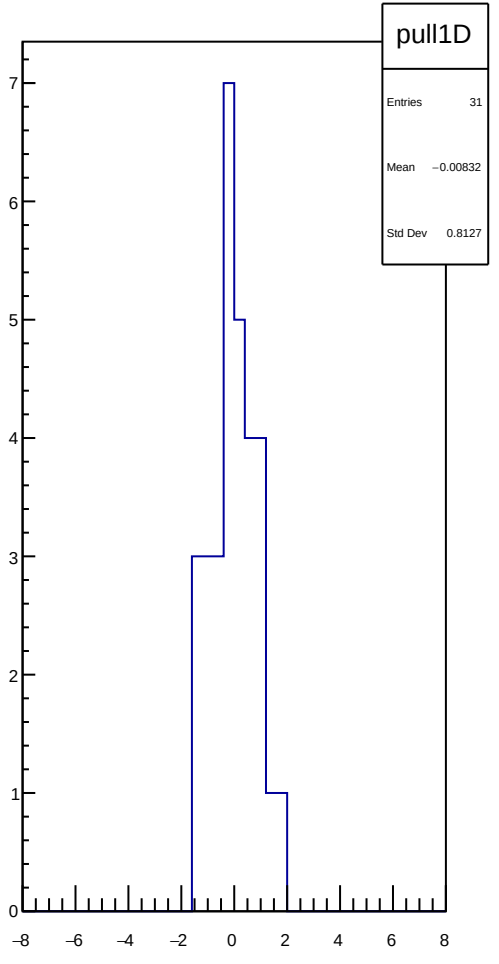

reg_asym_at2_avg_rms vs run
χ² / ndf 59.72 / 30
p0 1616 ± 2.094
1660
1640
1620
1600
1580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

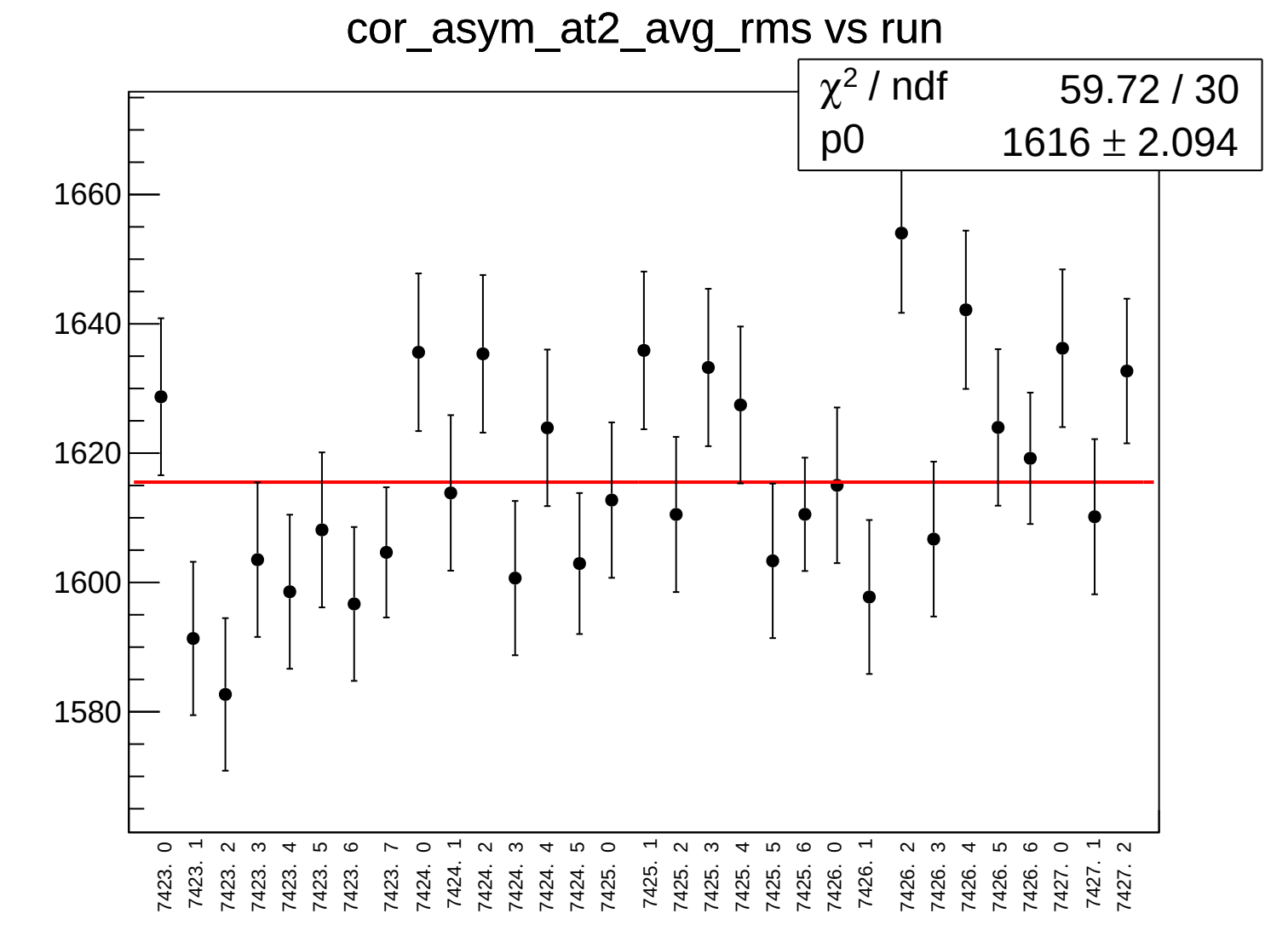

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 21.5 / 30
p0 7937 ± 1.434e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 406
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

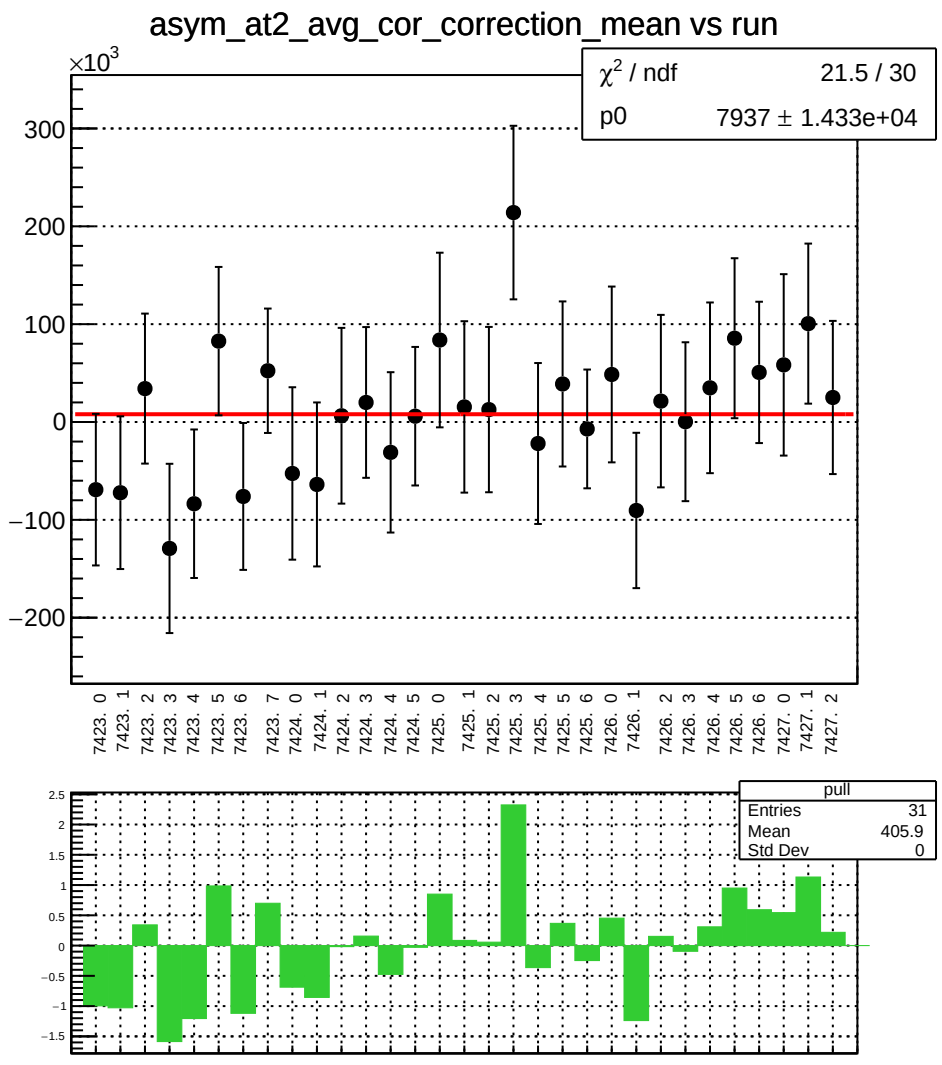

pull1D
Entries 31
Mean 0.008833
Std Dev 0.8328
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

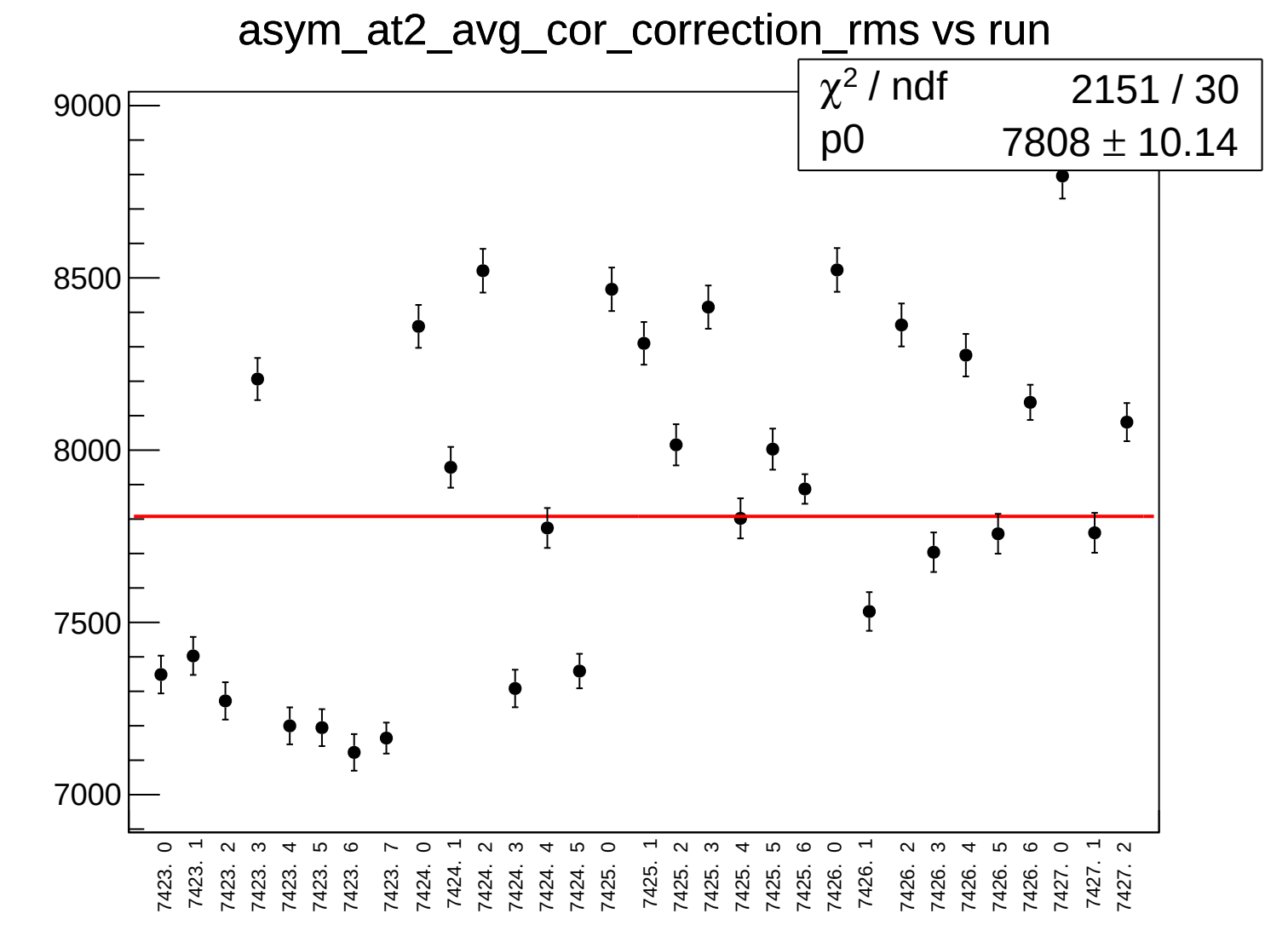

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 2150 / 30
p0 7808 ± 10.14
9000
8500
8000
7500
7000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

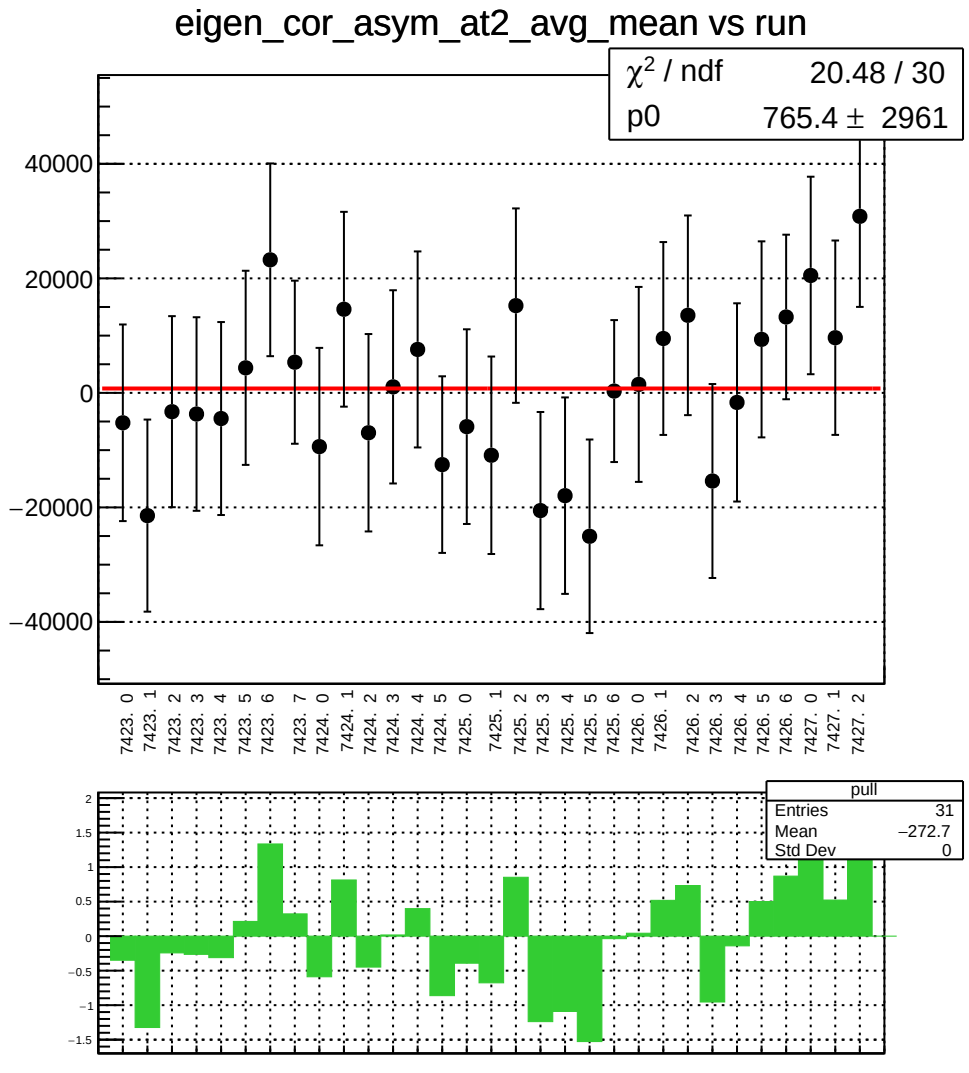

cor_asym_at2_avg_mean vs run
χ² / ndf 20.48 / 30
p0 765.4 ± 2961
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −272.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

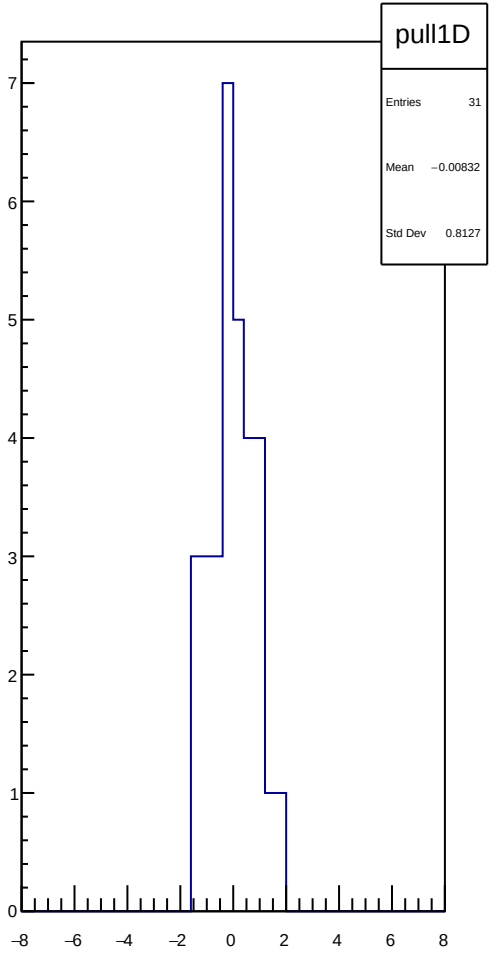

pull1D
Entries 31
Mean −0.00832
Std Dev 0.8127
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

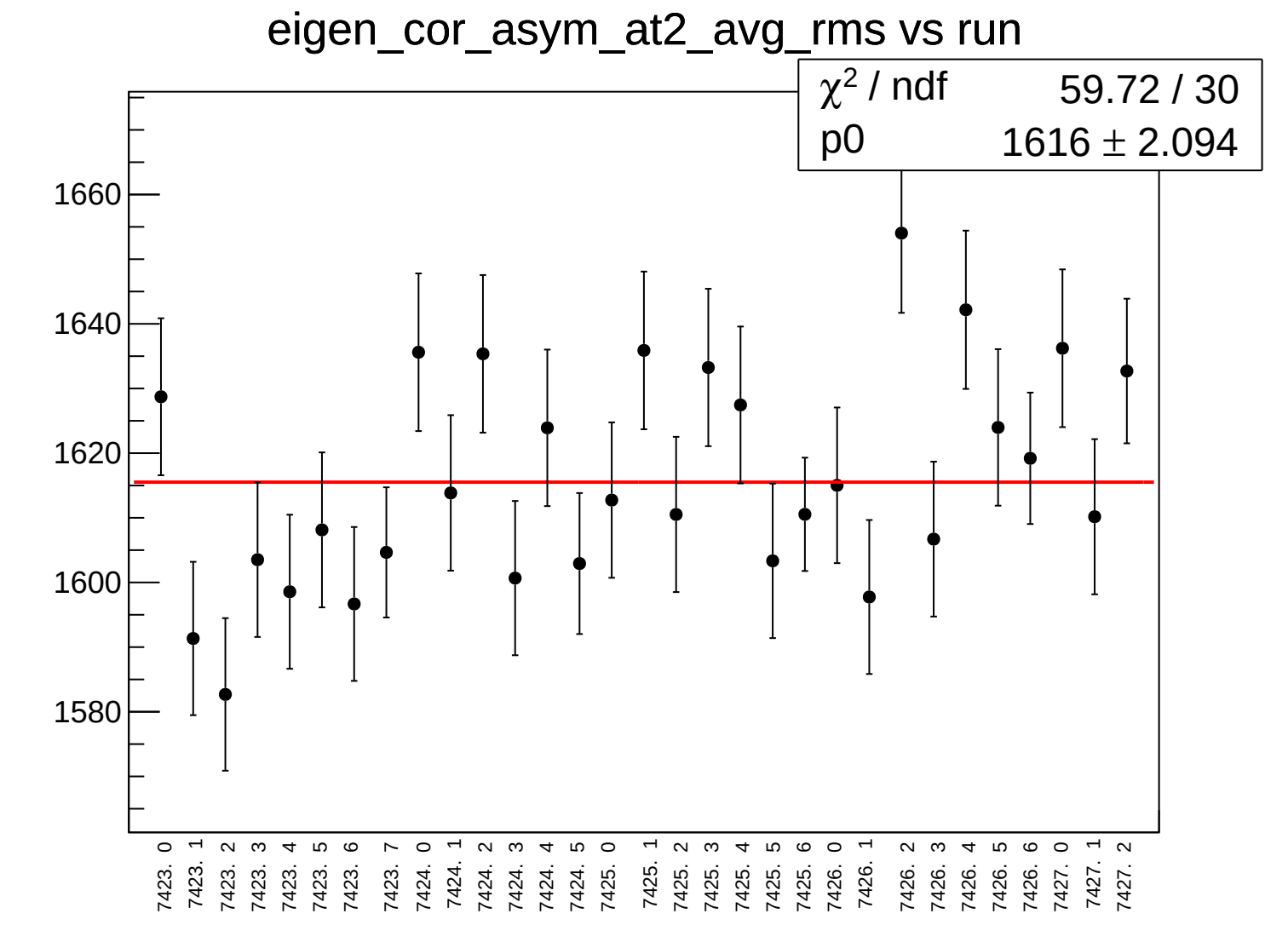

cor_asym_at2_avg_rms vs run
χ² / ndf 59.72 / 30
p0 1616 ± 2.094
1660
1640
1620
1600
1580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

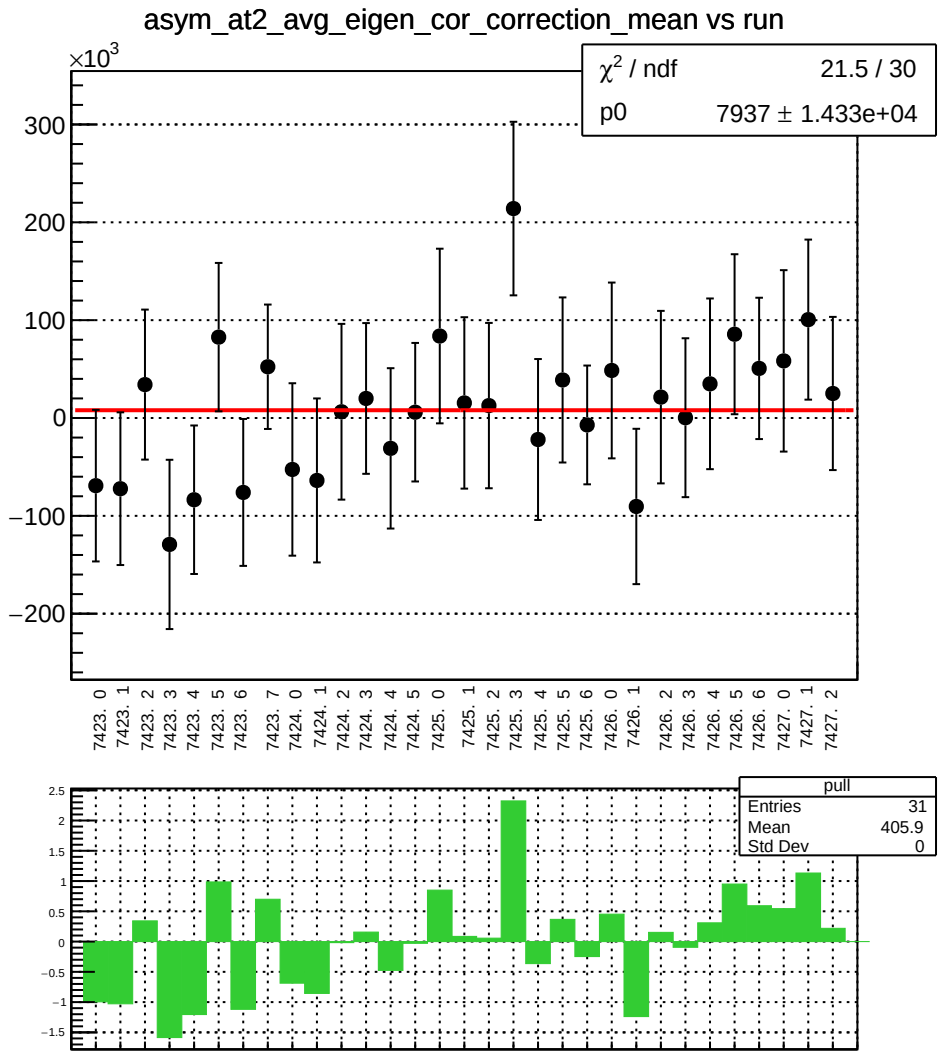

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 21.5 / 30
p0 7937 ± 1.433e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 405.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.008834
Std Dev 0.8328
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

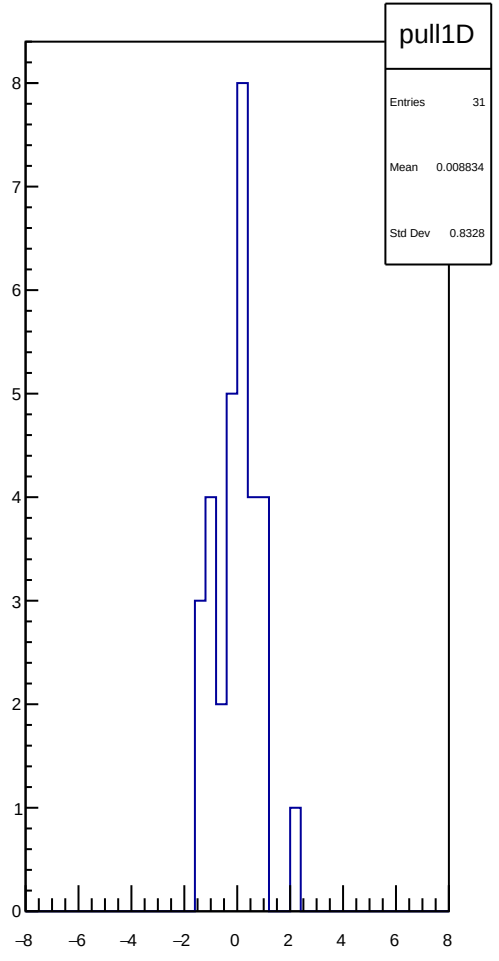

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 2151 / 30
p0 7808 ± 10.14
9000
8500
8000
7500
7000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

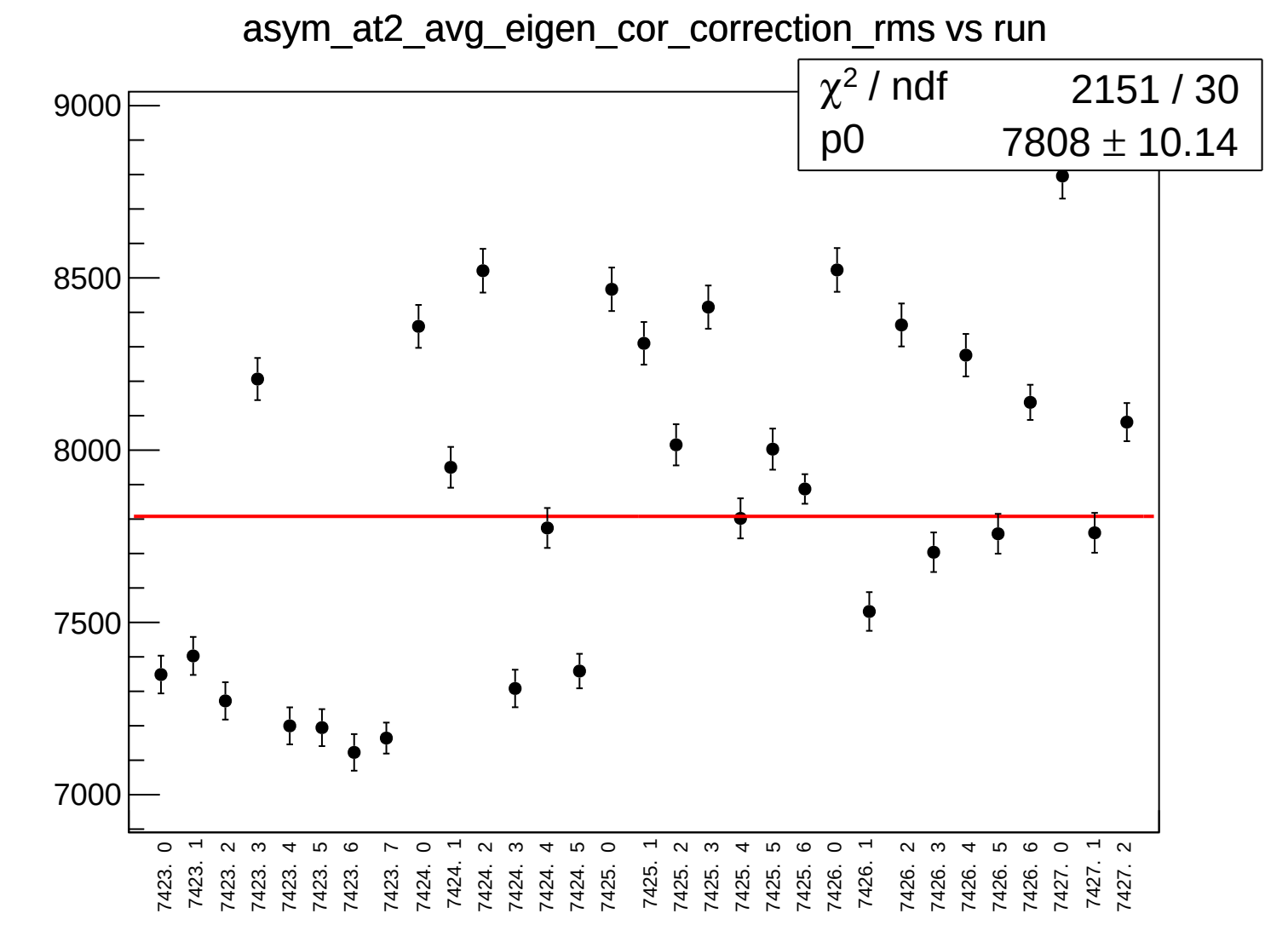

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 20.48 / 30
p0 765.4 ± 2961
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −272.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

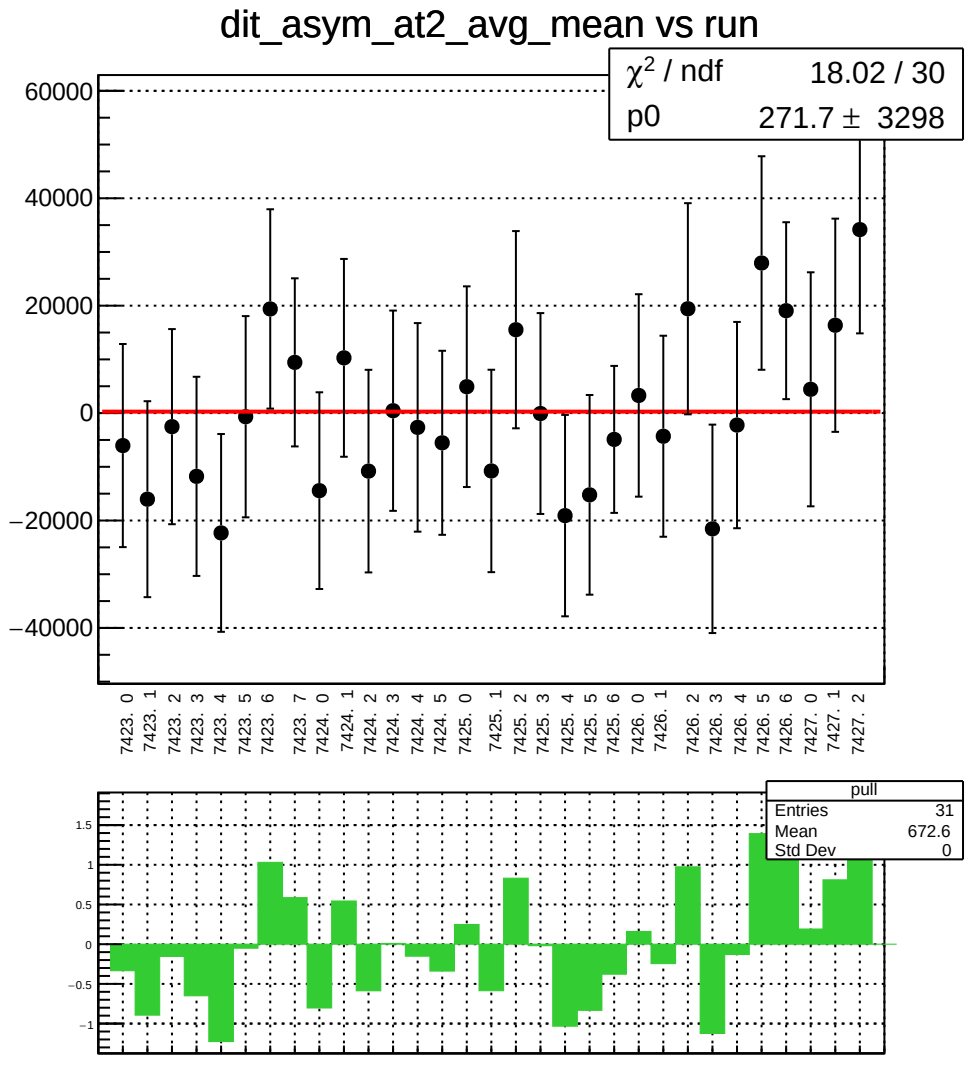

pull1D
Entries 31
Mean −0.00832
Std Dev 0.8127
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

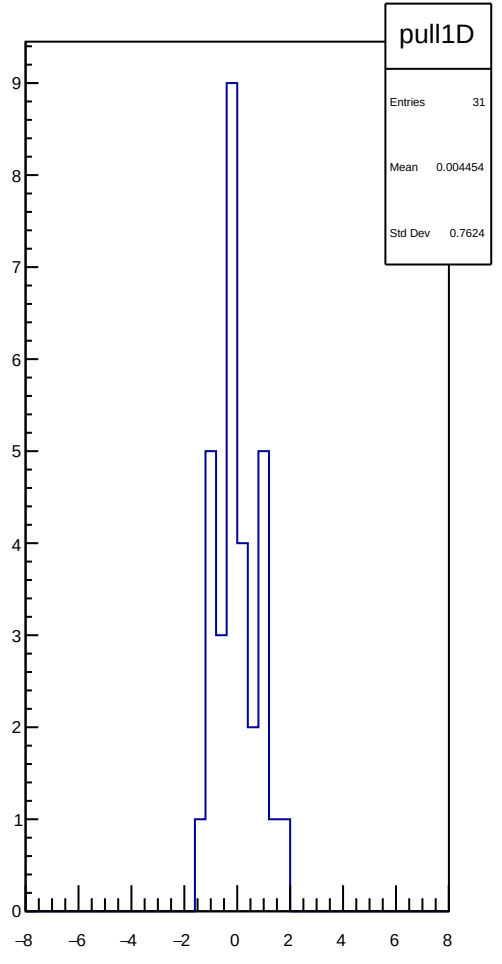

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 59.72 / 30
p0 1616 ± 2.094
1660
1640
1620
1600
1580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

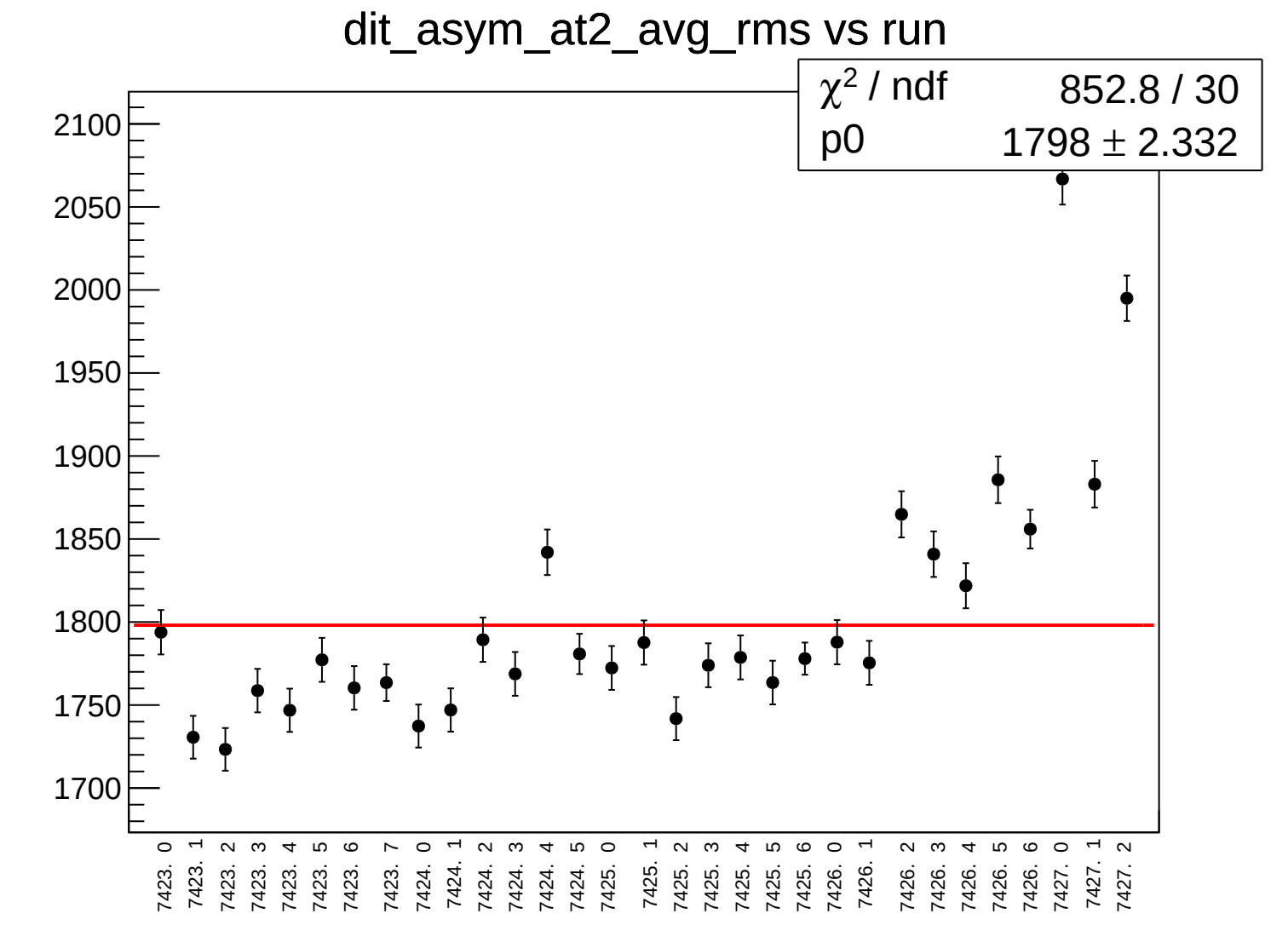

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.5 / 30
p0 7937 ± 1.433e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 405.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

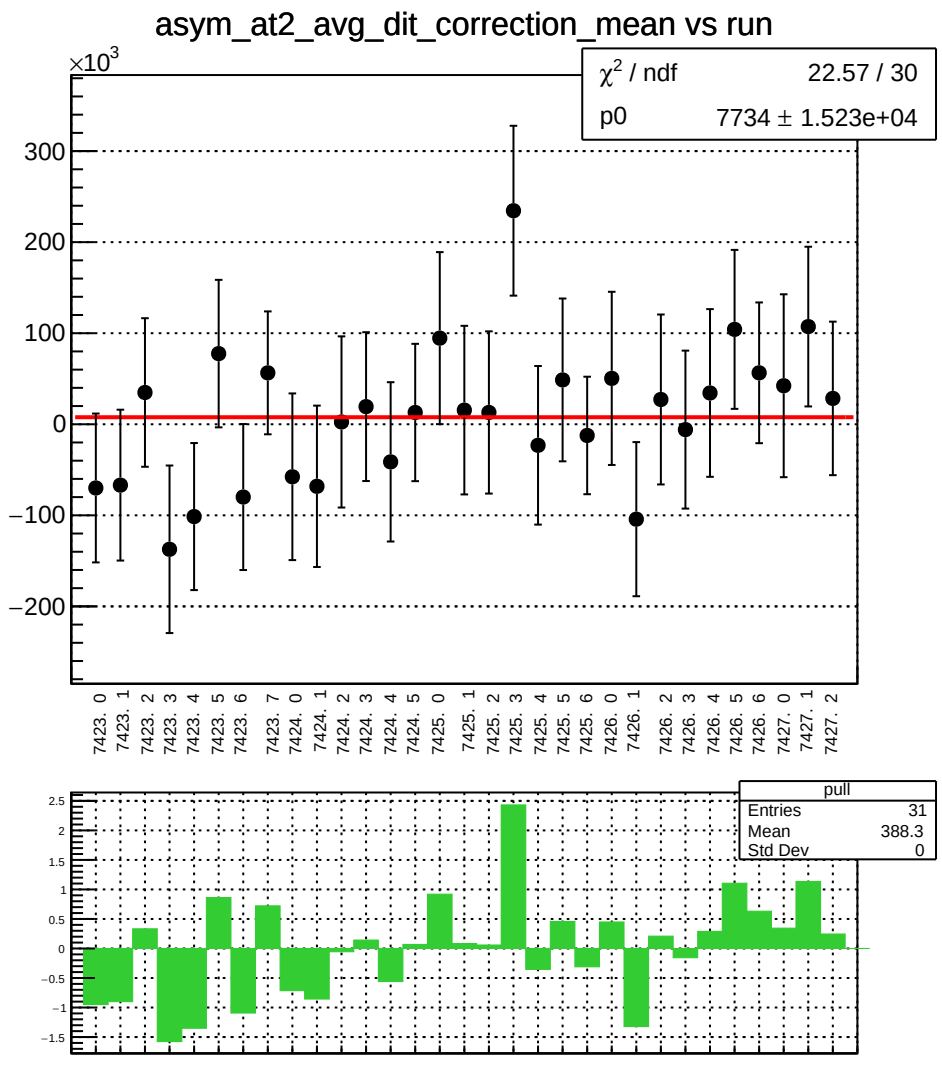

pull1D
Entries 31
Mean 0.008834
Std Dev 0.8328
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

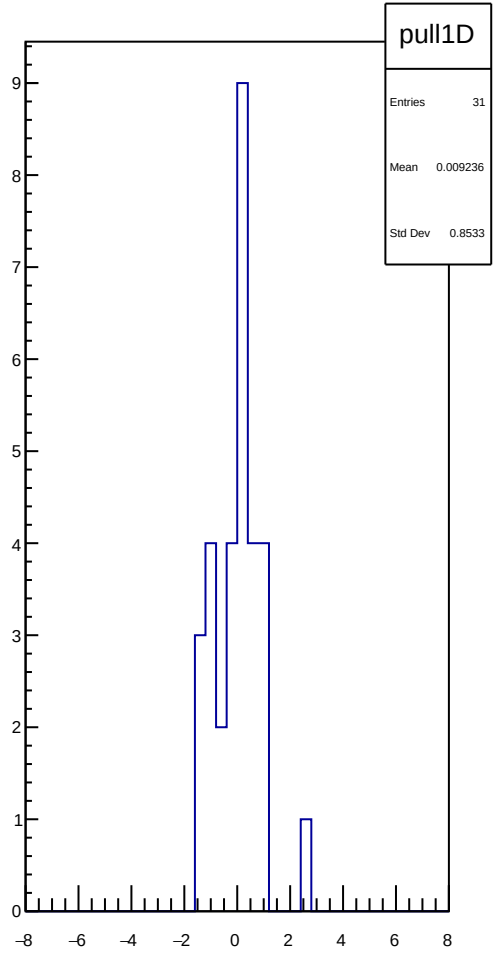

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2151 / 30
p0 7808 ± 10.14
9000
8500
8000
7500
7000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

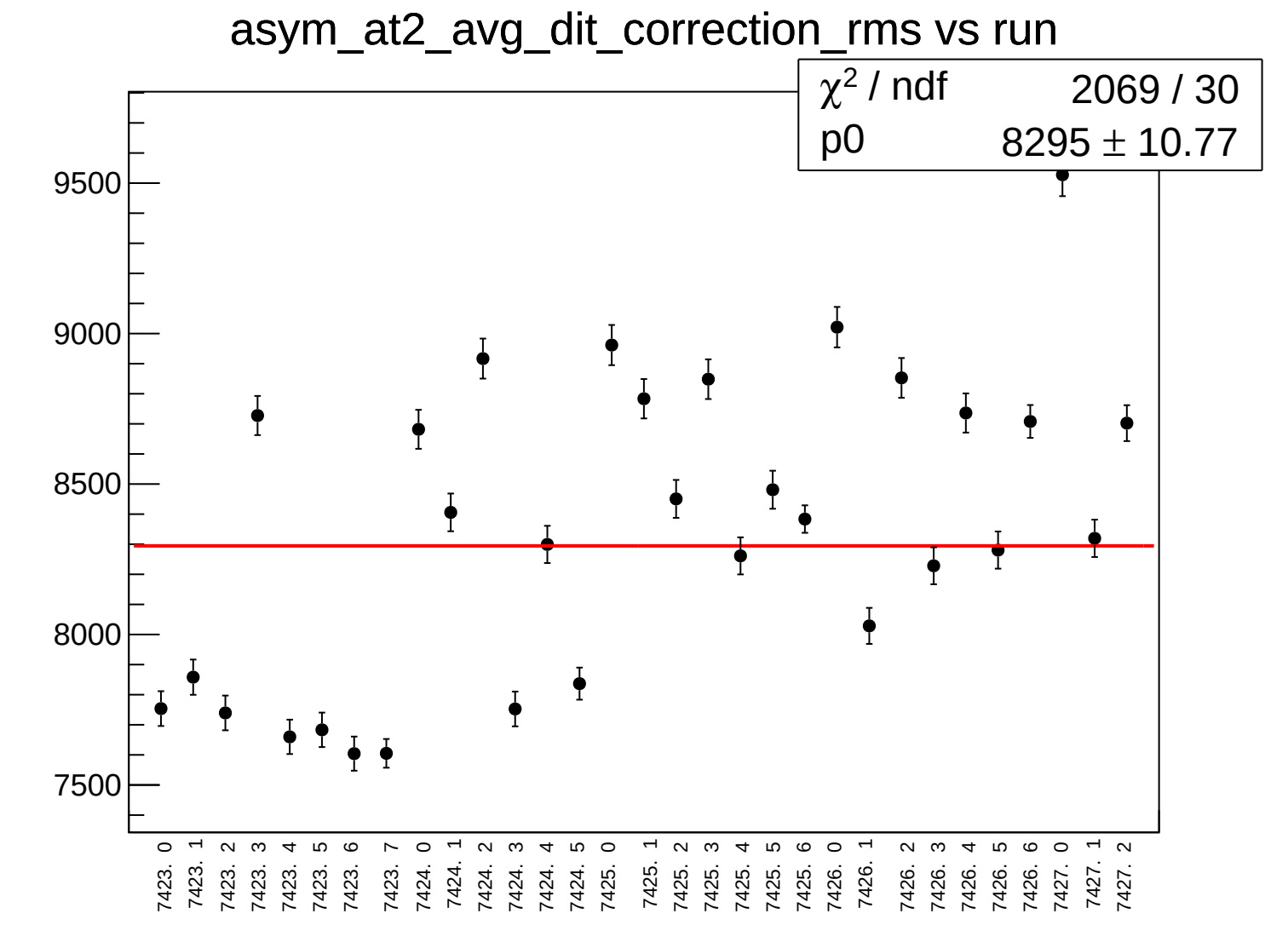

dit_asym_at2_avg_mean vs run
χ² / ndf 18.02 / 30
p0 271.7 ± 3298
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 672.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

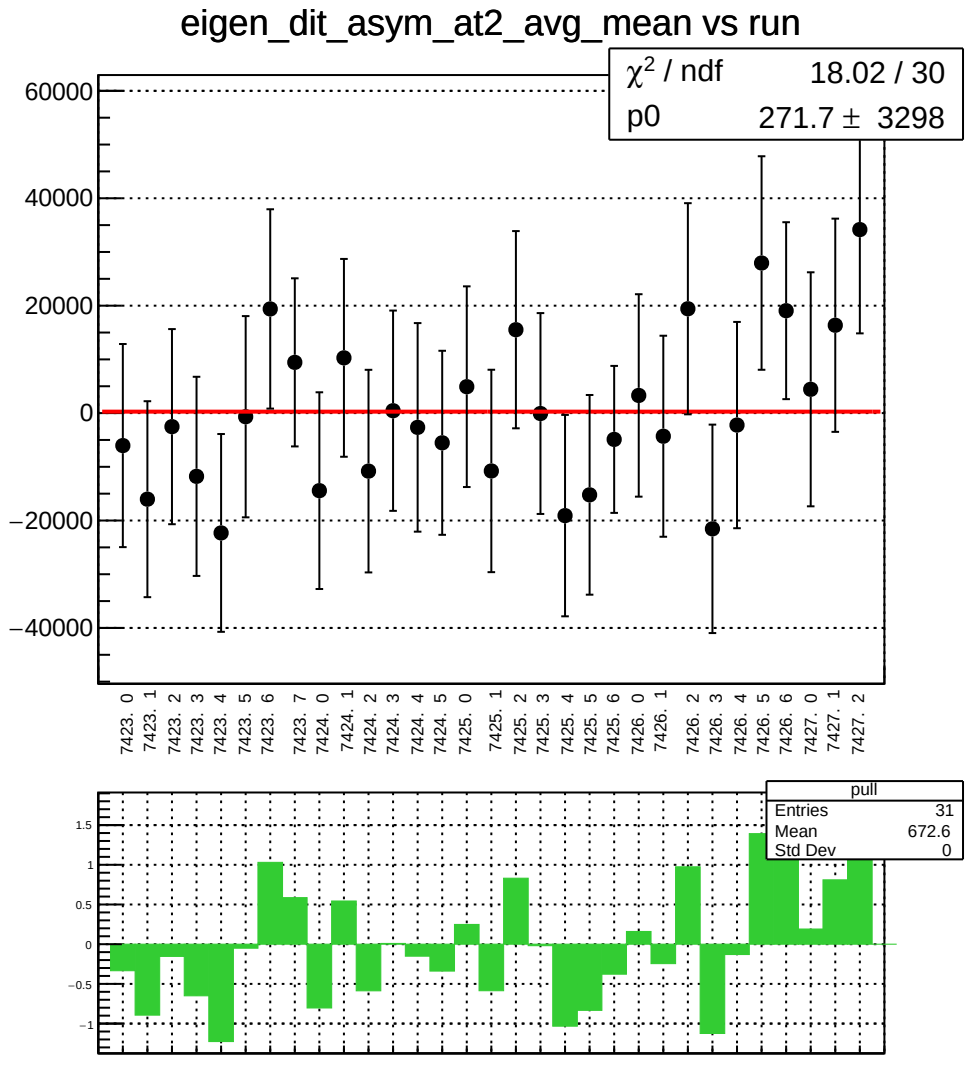

pull1D
Entries 31
Mean 0.004454
Std Dev 0.7624
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

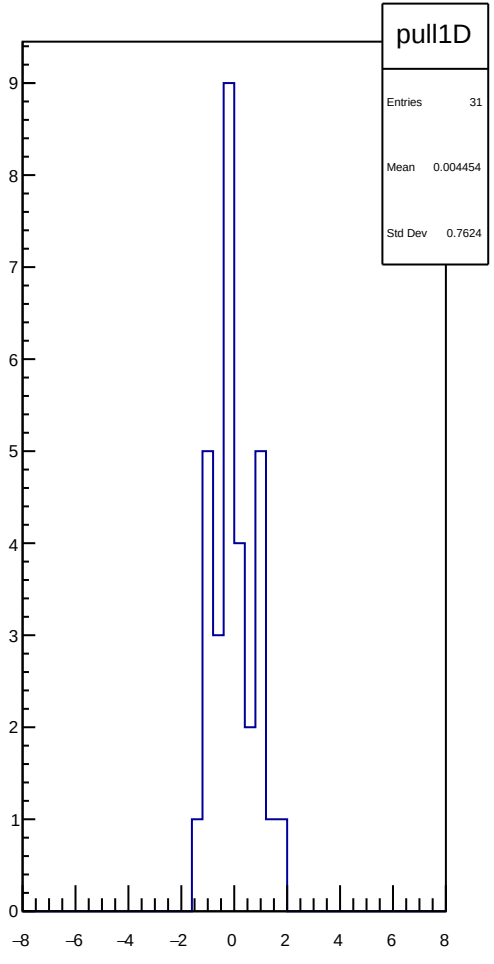

dit_asym_at2_avg_rms vs run
χ² / ndf 852.8 / 30
p0 1798 ± 2.332
2100
2050
2000
1950
1900
1850
1800
1750
1700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

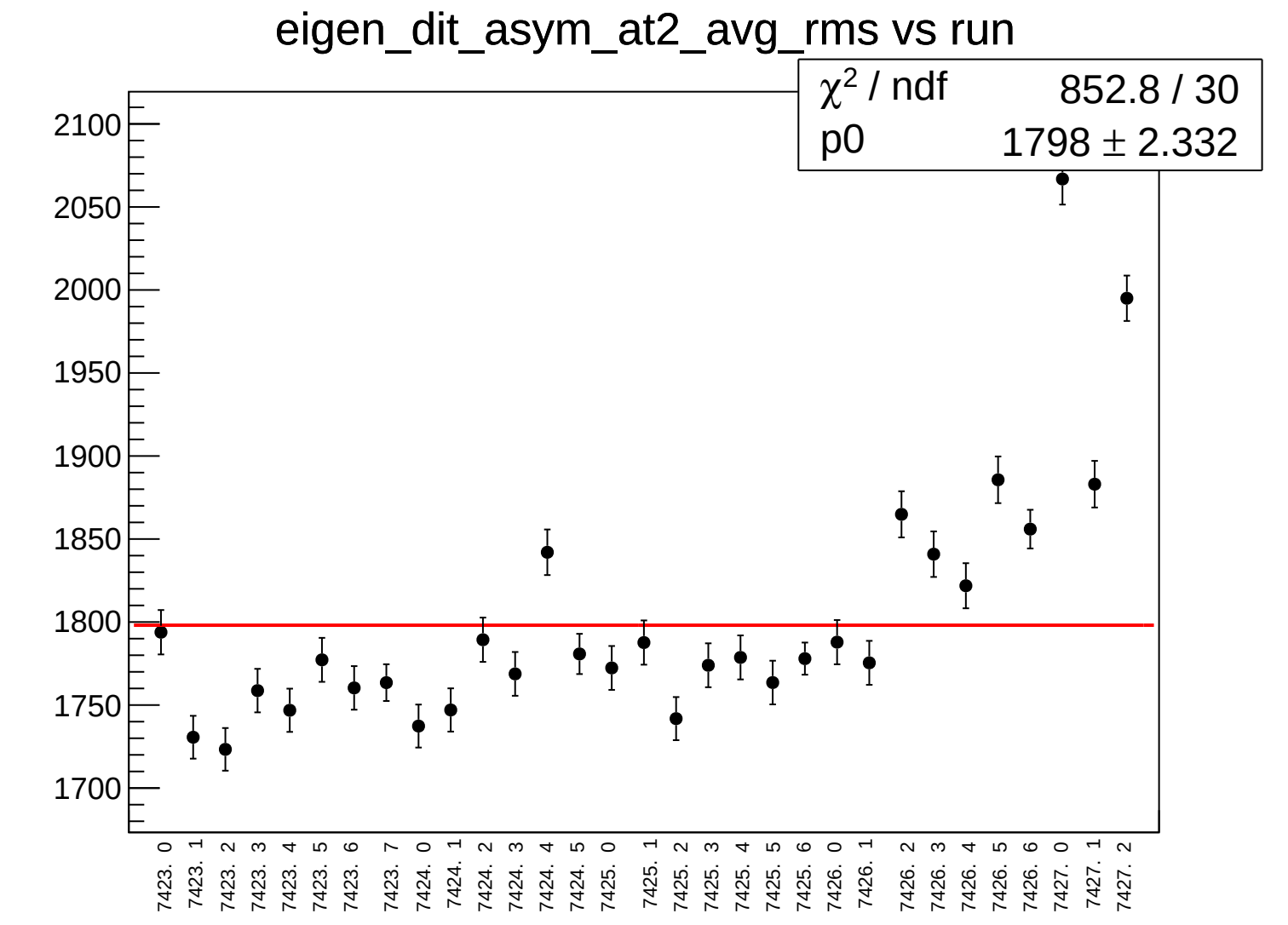

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 22.57 / 30
p0 7734 ± 1.523e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 388.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

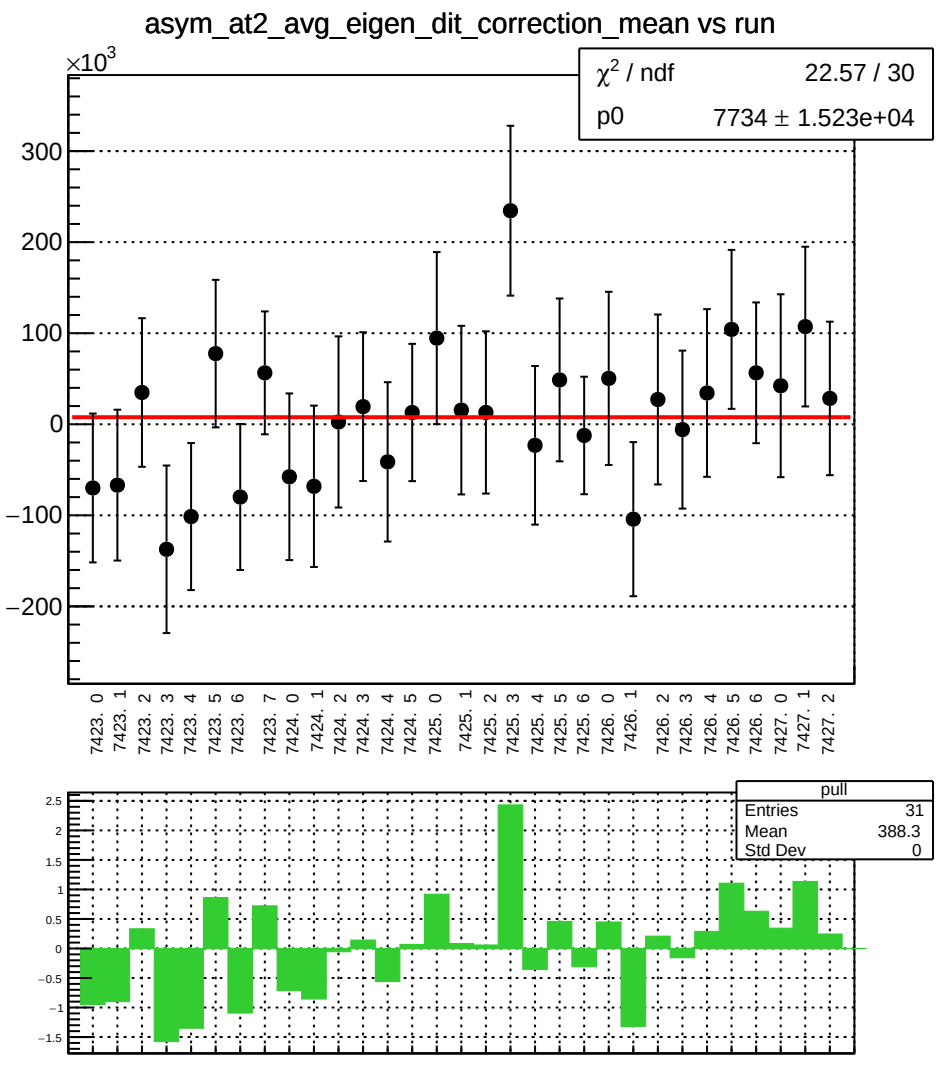

pull1D
Entries 31
Mean 0.009236
Std Dev 0.8533
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

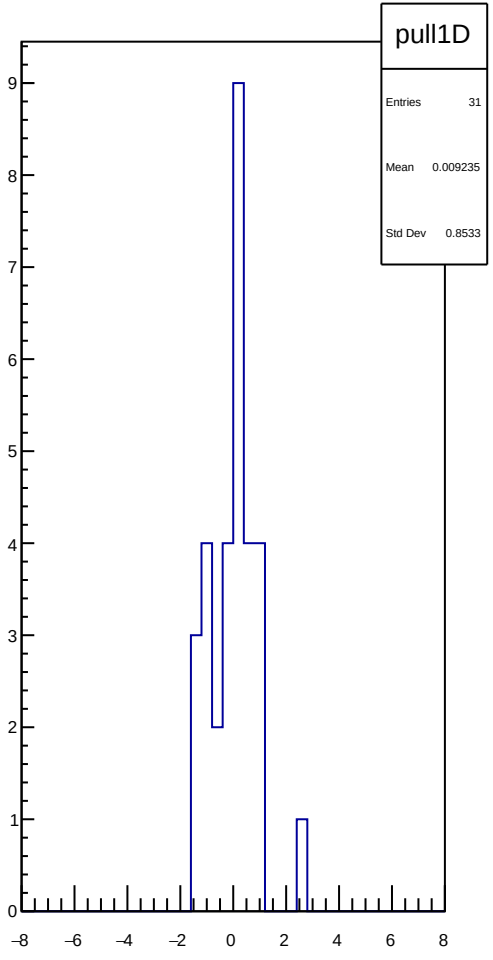

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 2069 / 30
p0 8295 ± 10.77
9500
9000
8500
8000
7500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

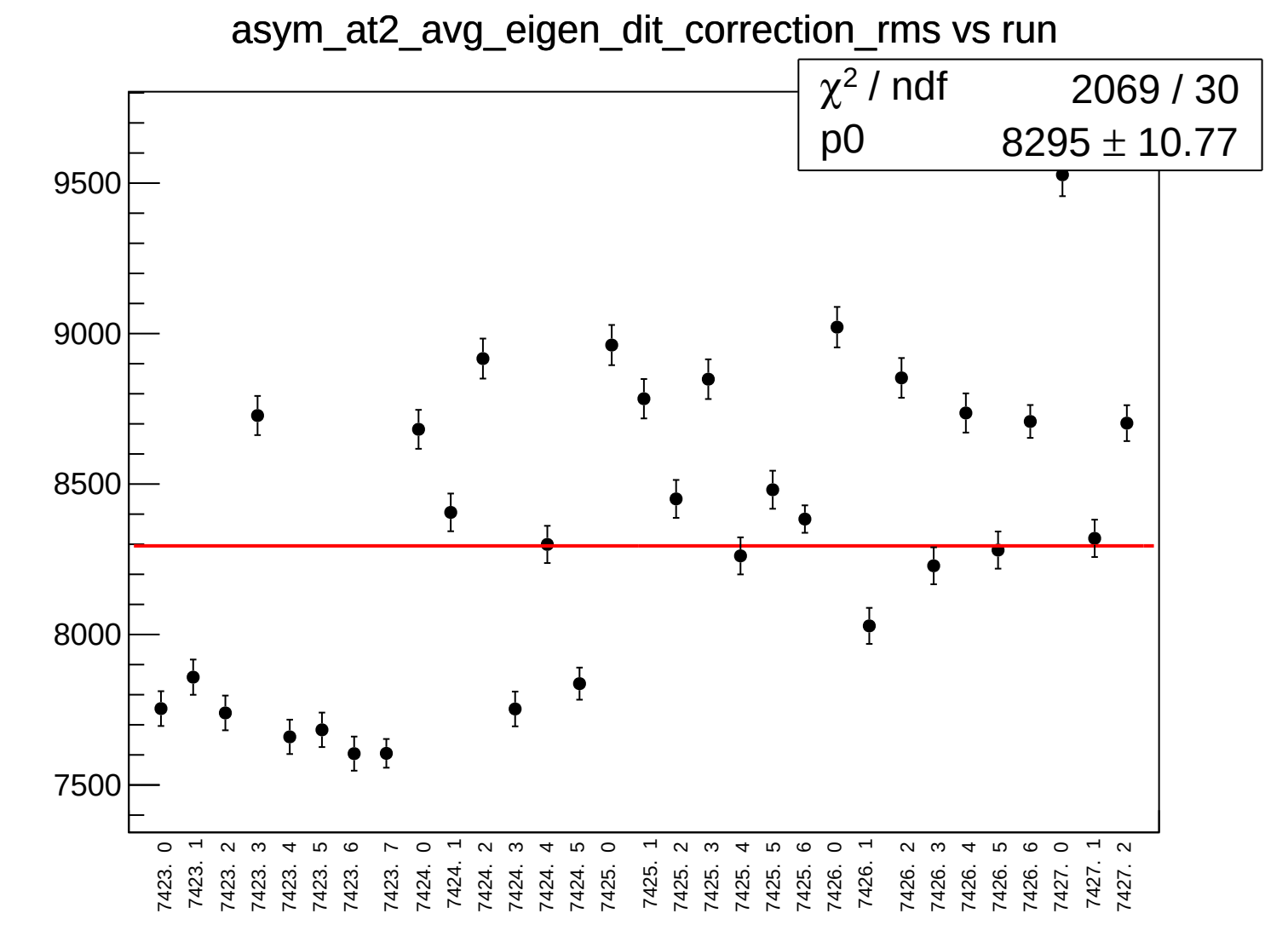

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 18.02 / 30
p0 271.7 ± 3298
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 672.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

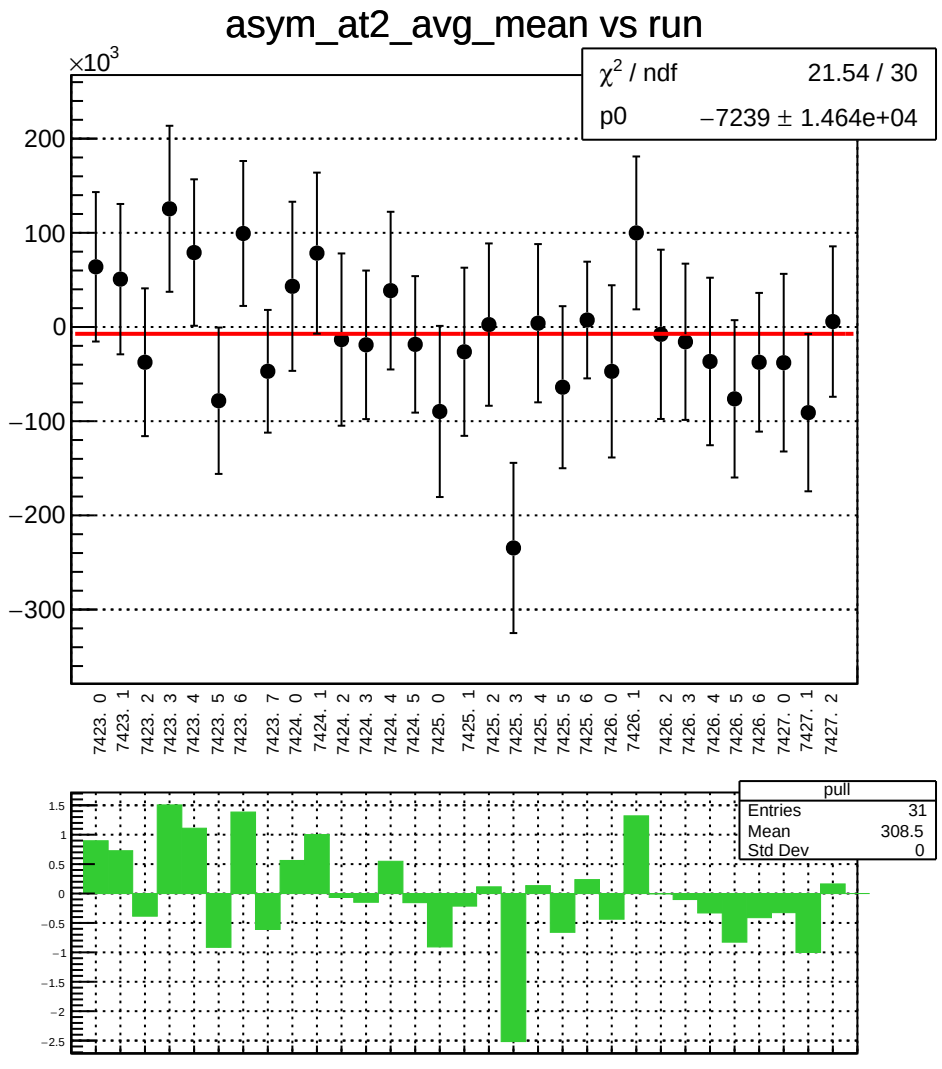

pull1D
Entries 31
Mean 0.004454
Std Dev 0.7624
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

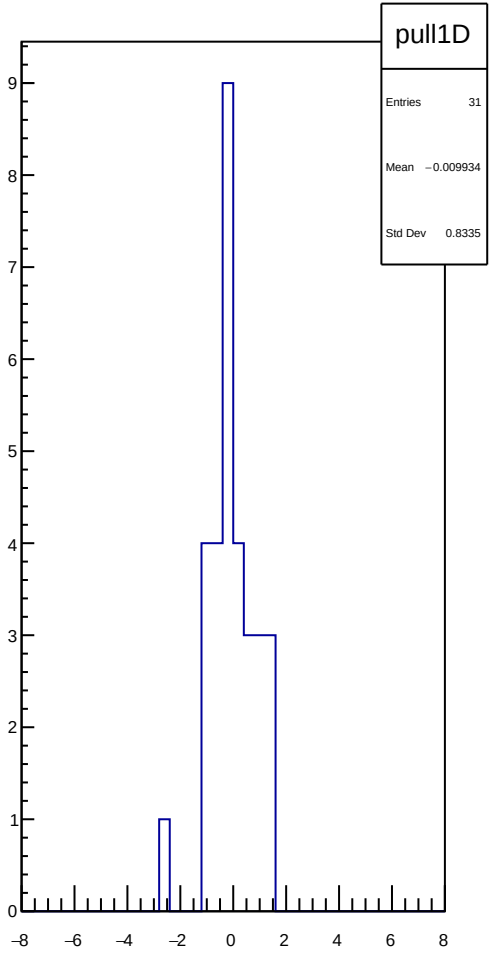

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 852.8 / 30
p0 1798 ± 2.332
2100
2050
2000
1950
1900
1850
1800
1750
1700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

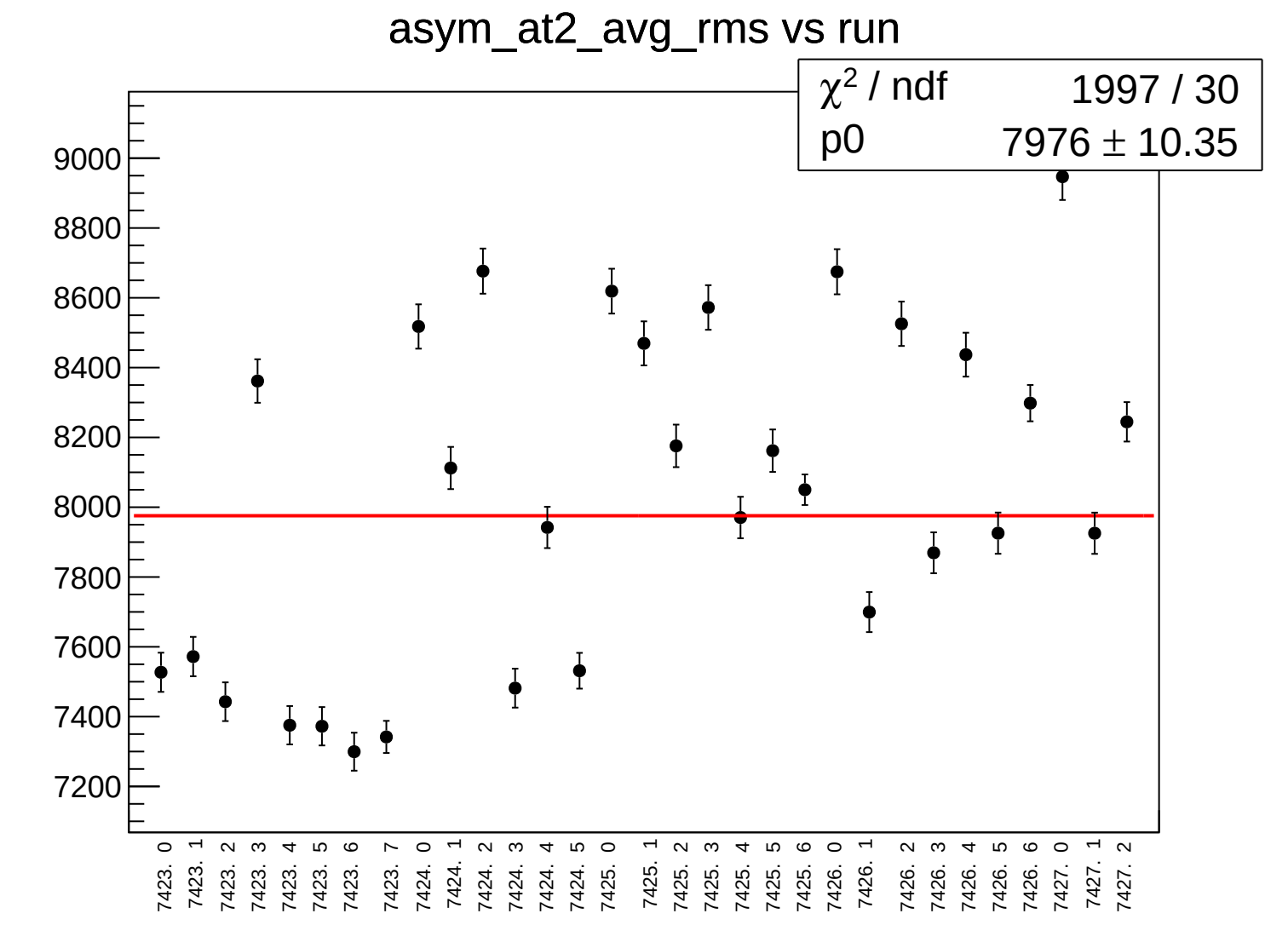

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.57 / 30
p0 7734 ± 1.523e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 388.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

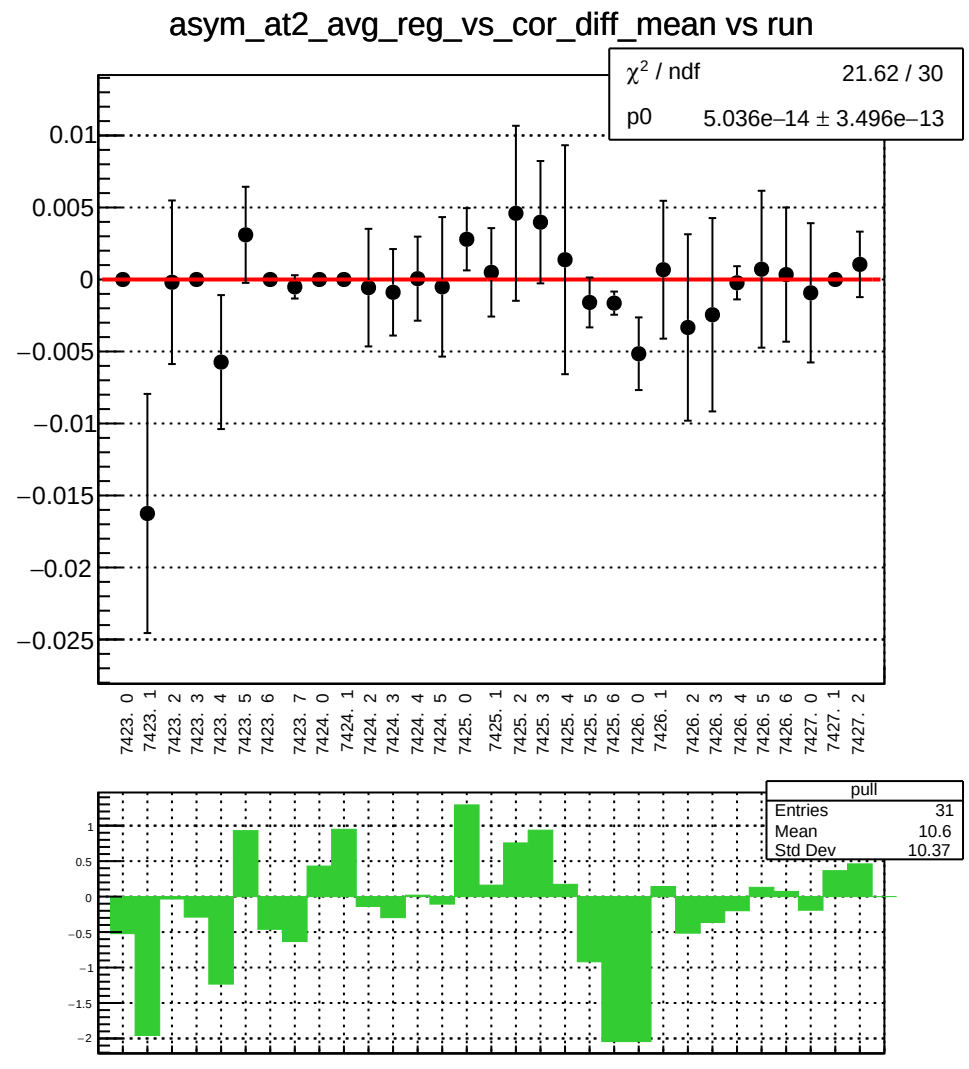

pull1D
Entries 31
Mean 0.009235
Std Dev 0.8533
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

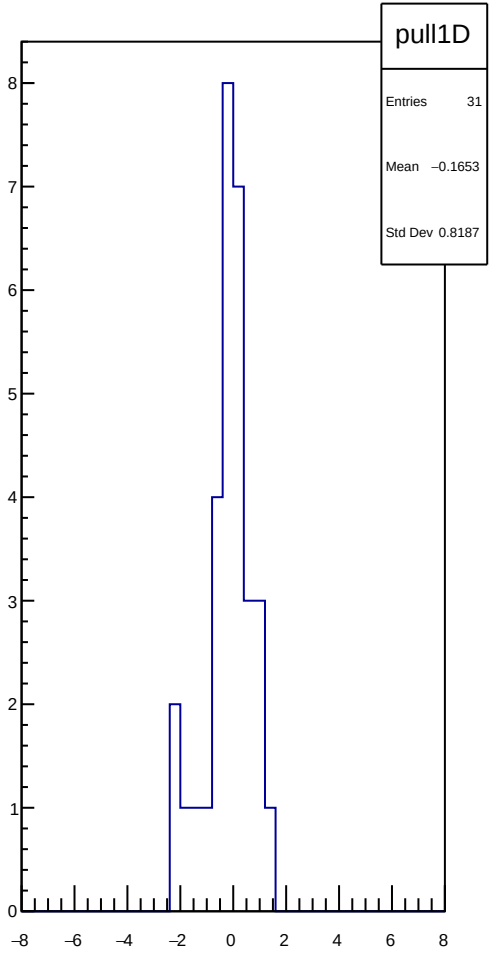

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2069 / 30
p0 8295 ± 10.77
9500
9000
8500
8000
7500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

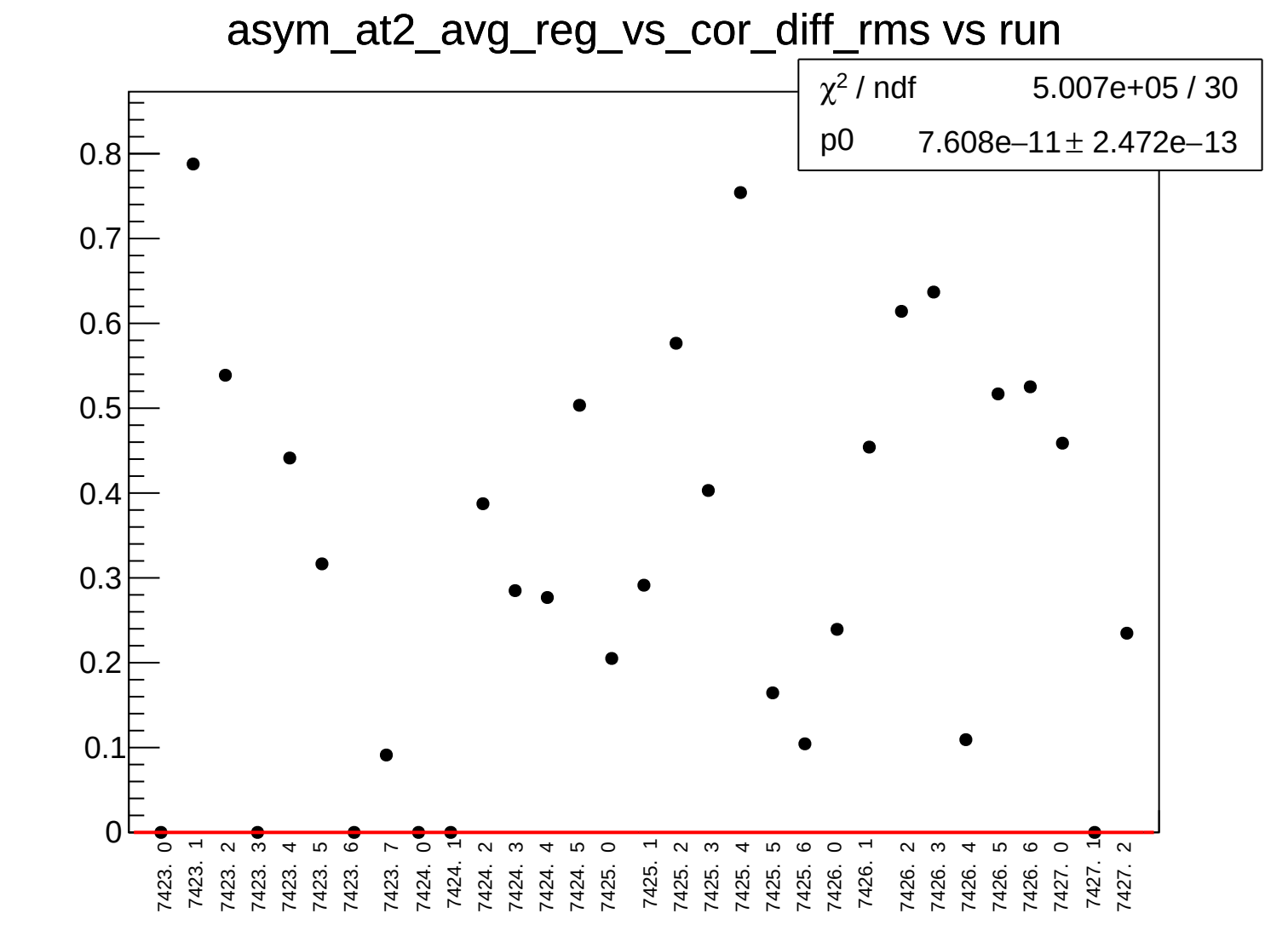

asym_at2_avg_mean vs run
×10^3
χ² / ndf 21.54 / 30
p0 −7239 ± 1.464e+04
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 308.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

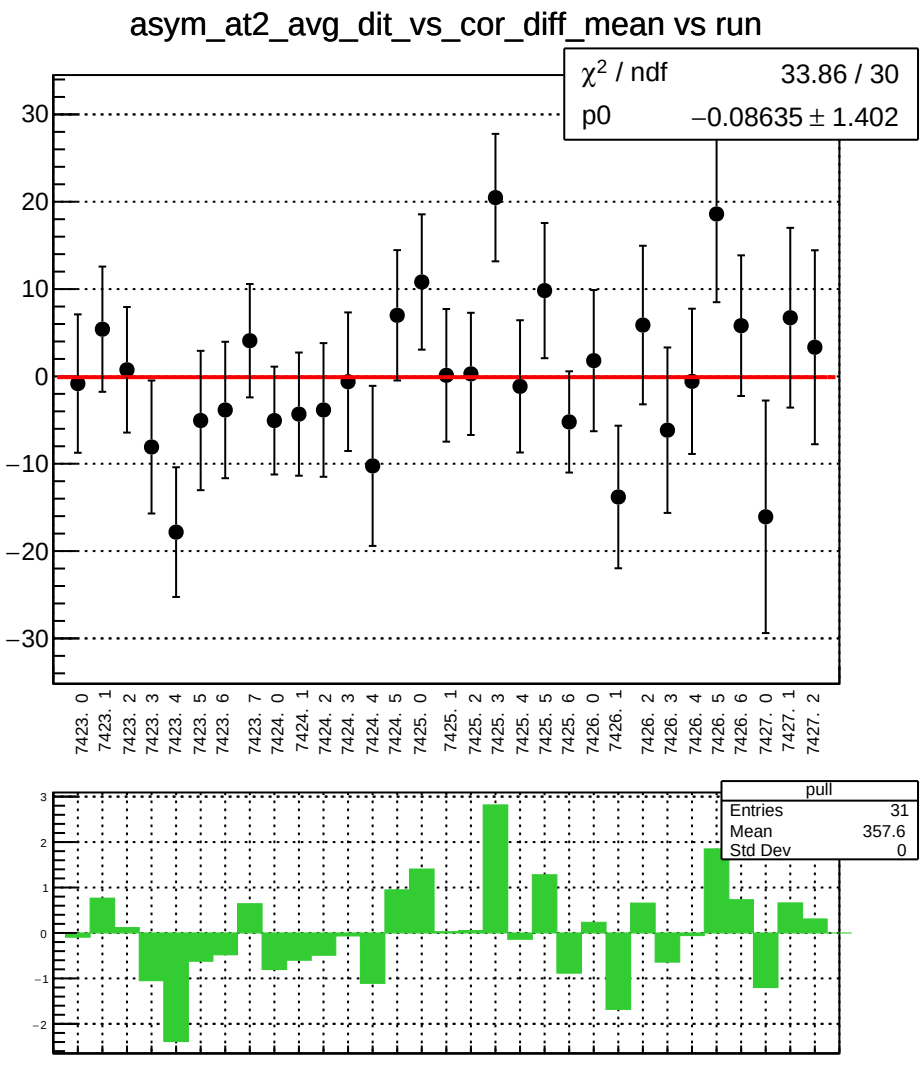

pull1D
Entries 31
Mean −0.009934
Std Dev 0.8335
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

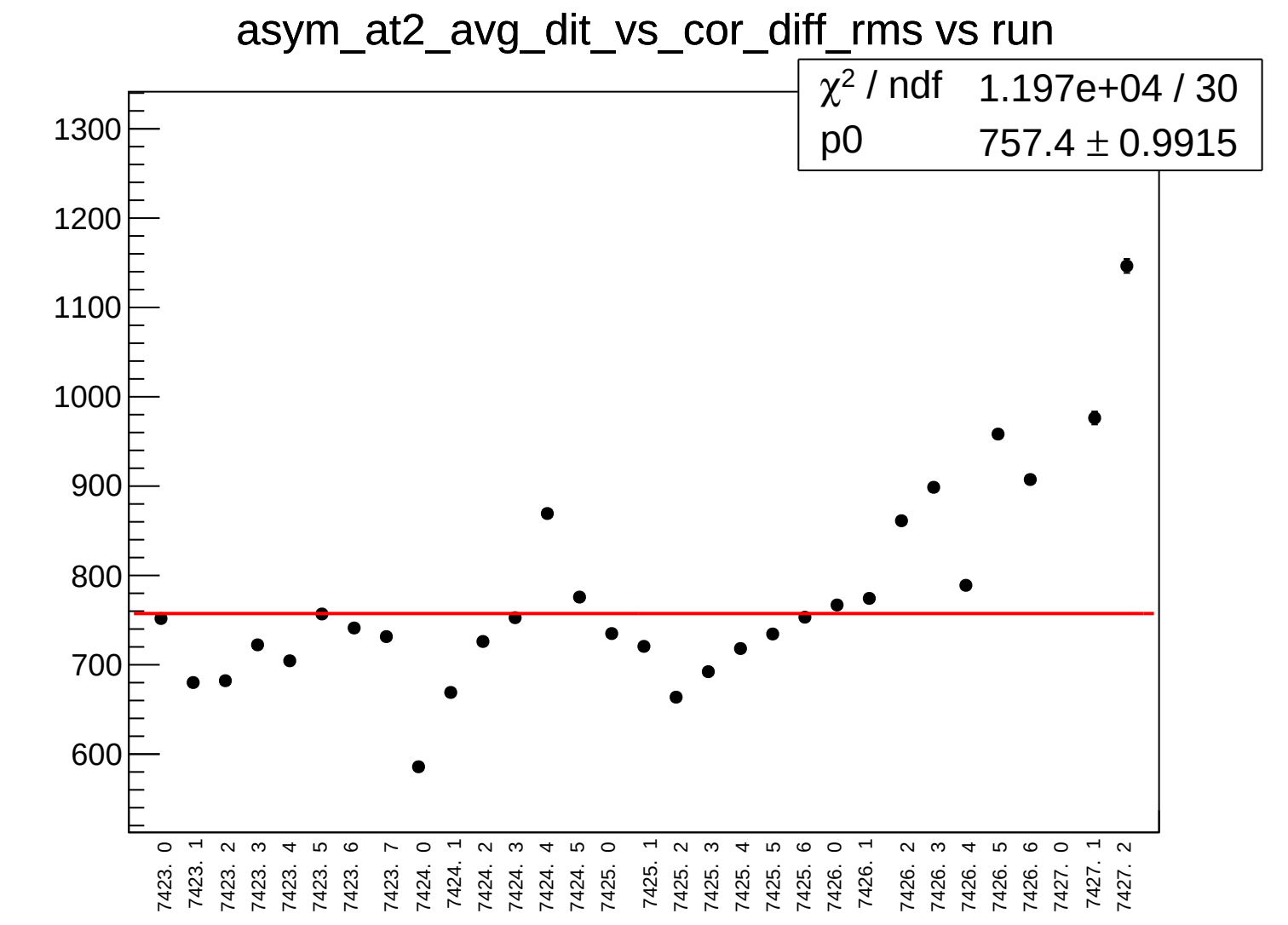

asym_at2_avg_rms vs run
χ² / ndf 1997 / 30
p0 7976 ± 10.35
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

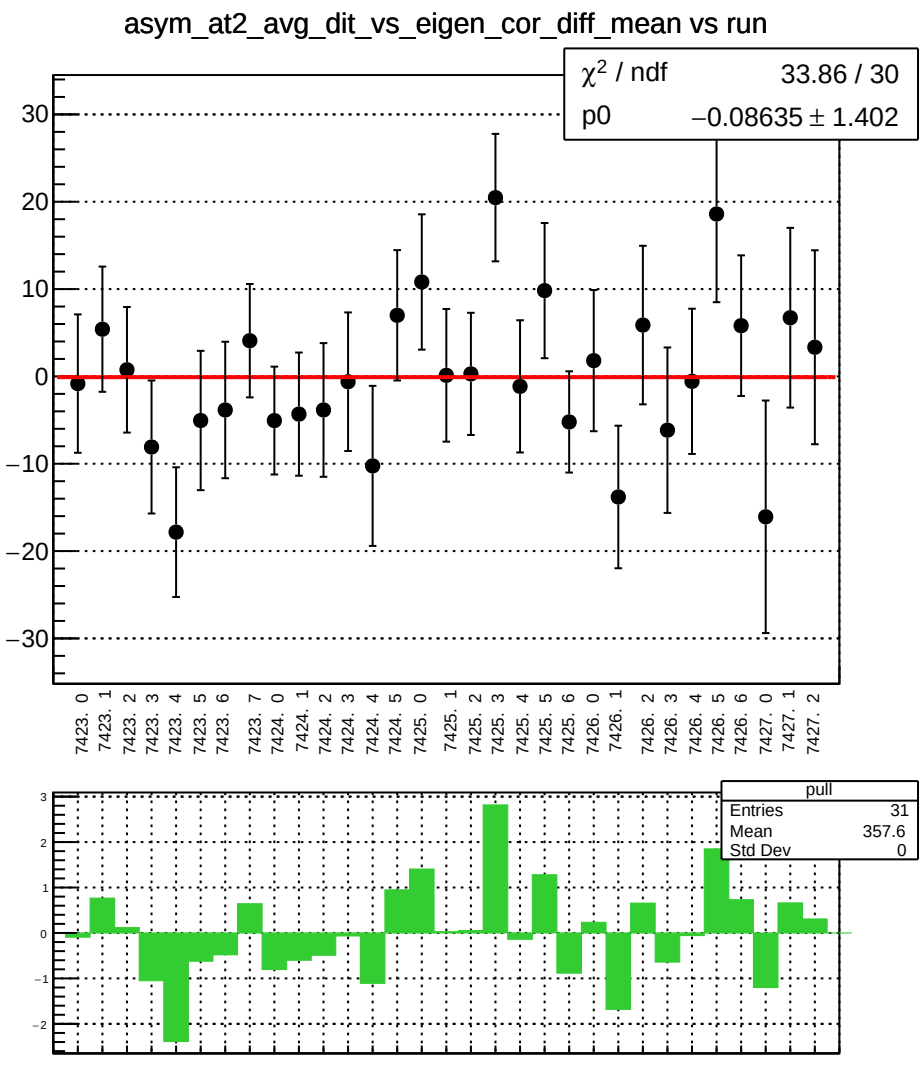

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.62 / 30
p0 5.036e−14 ± 3.496e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 10.6
Std Dev 10.37
1
0.5
0
−0.5
−1
−1.5
−2

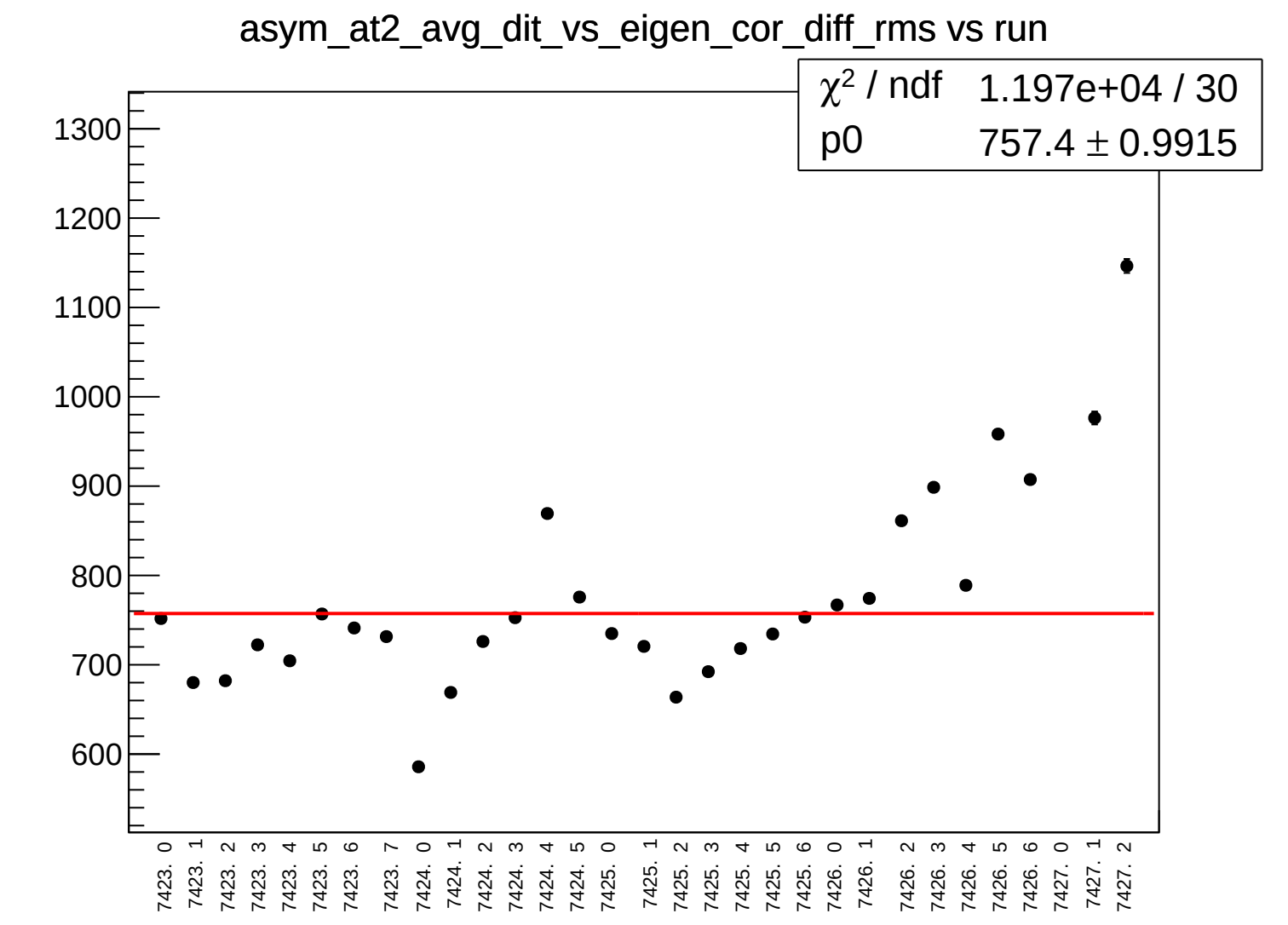

pull1D
Entries 31
Mean −0.1653
Std Dev 0.8187
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

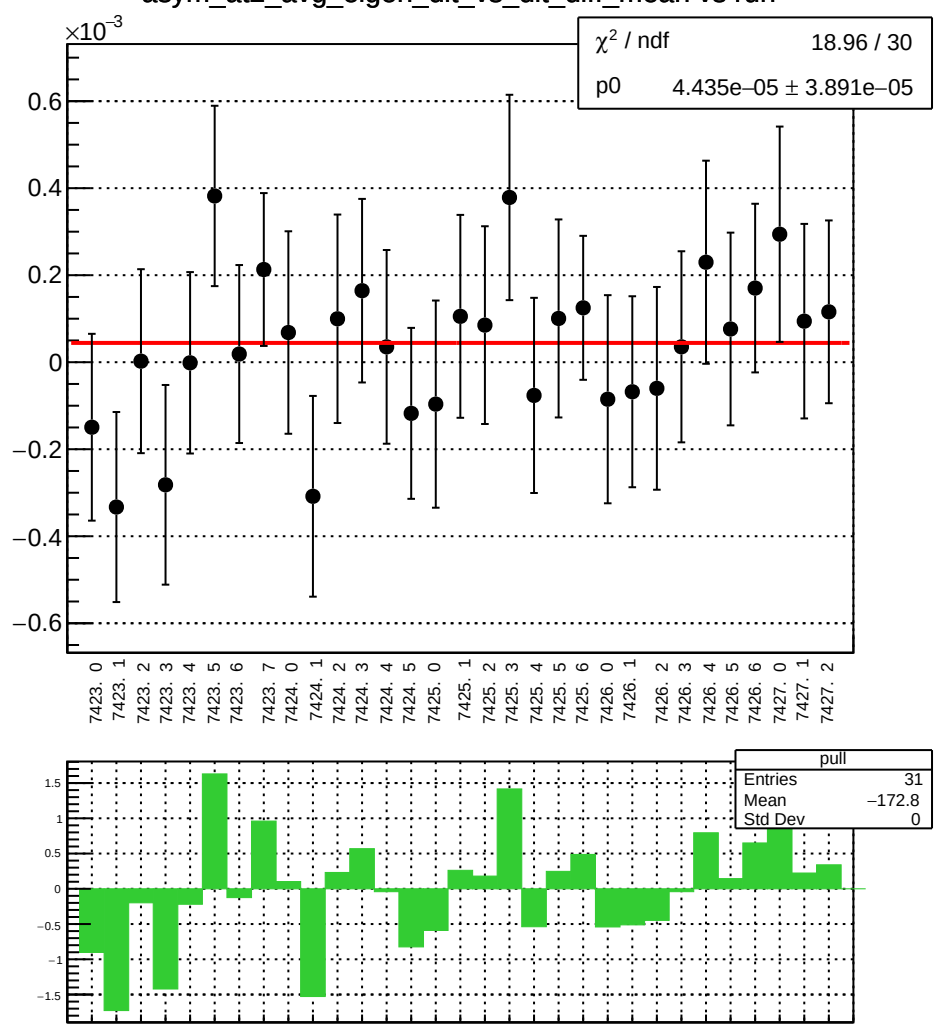

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.007e+05 / 30
p0 7.608e−11 ± 2.472e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

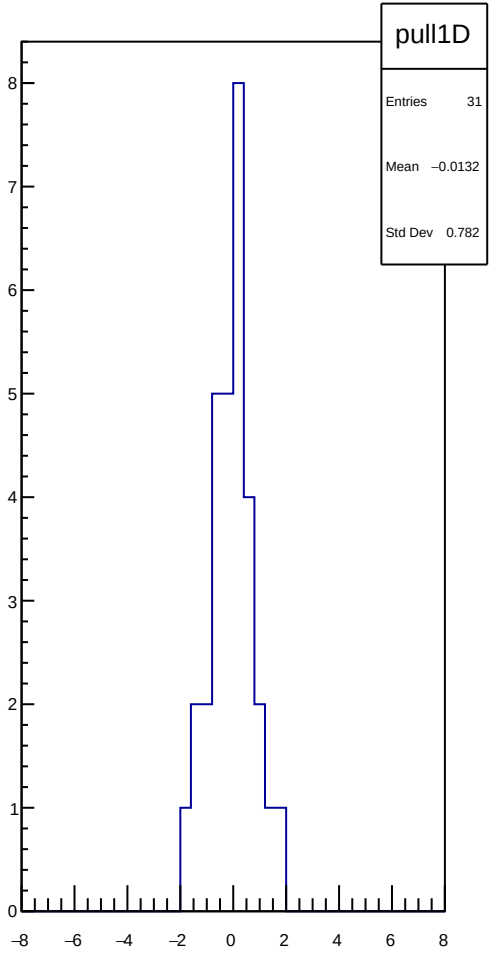

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33.86 / 30
p0 −0.08635 ± 1.402
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 357.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.006349
Std Dev 1.045
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

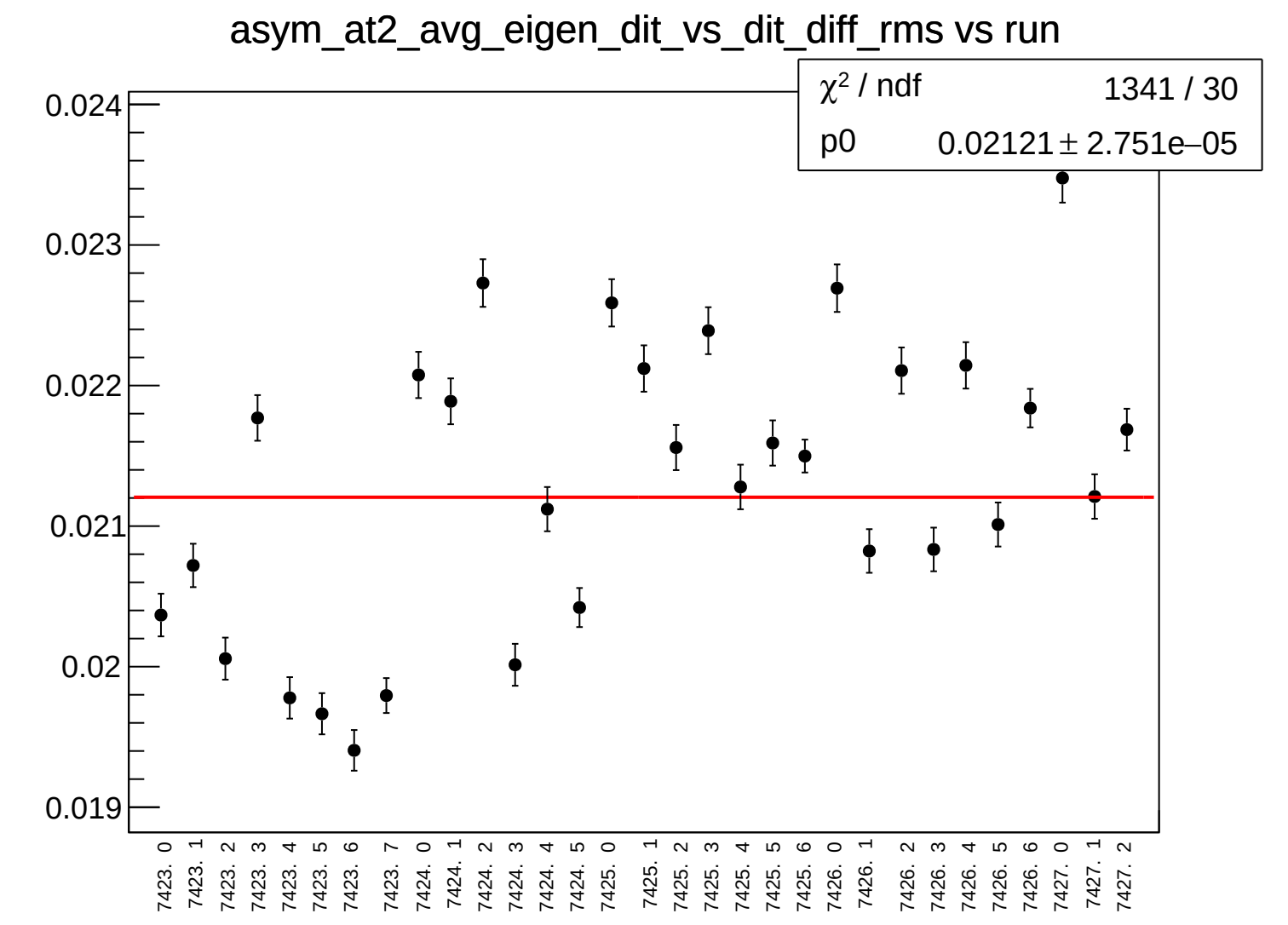

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.197e+04 / 30
p0 757.4 ± 0.9915
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

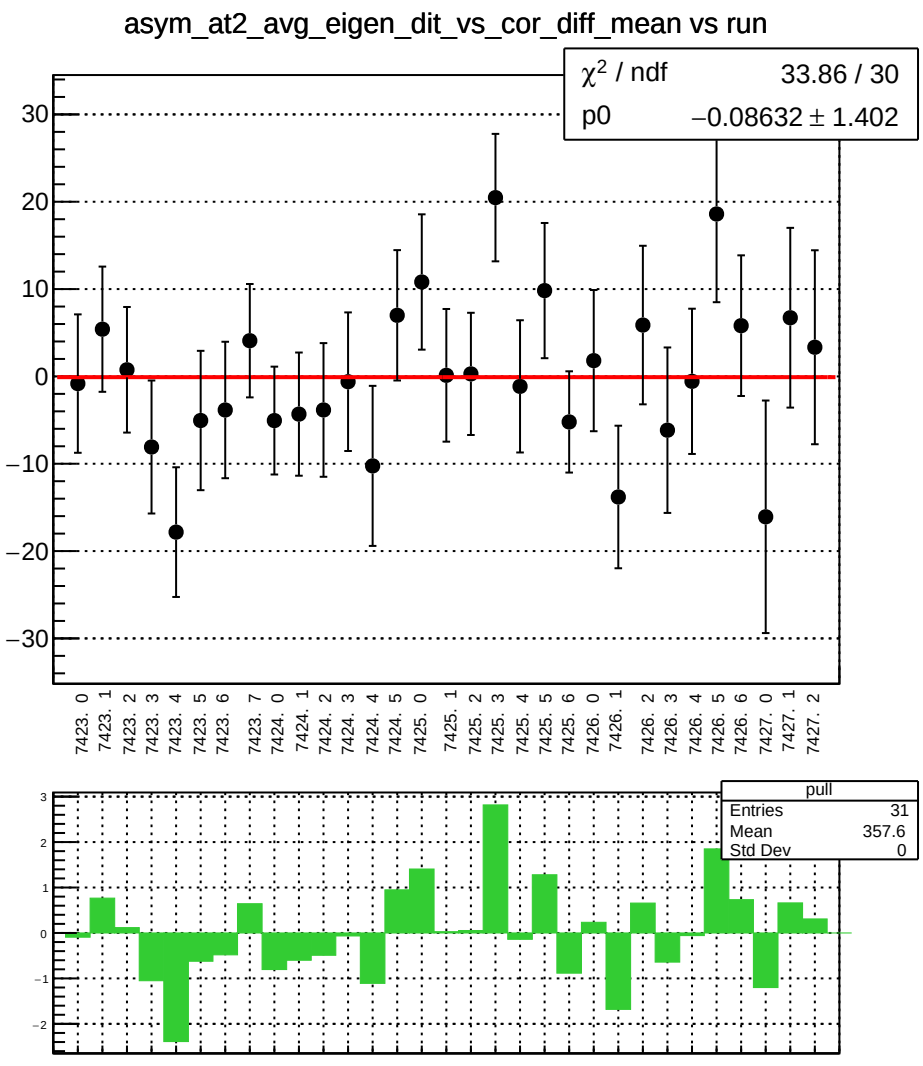

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.86 / 30
p0 −0.08635 ± 1.402
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 357.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.006349
Std Dev 1.045
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

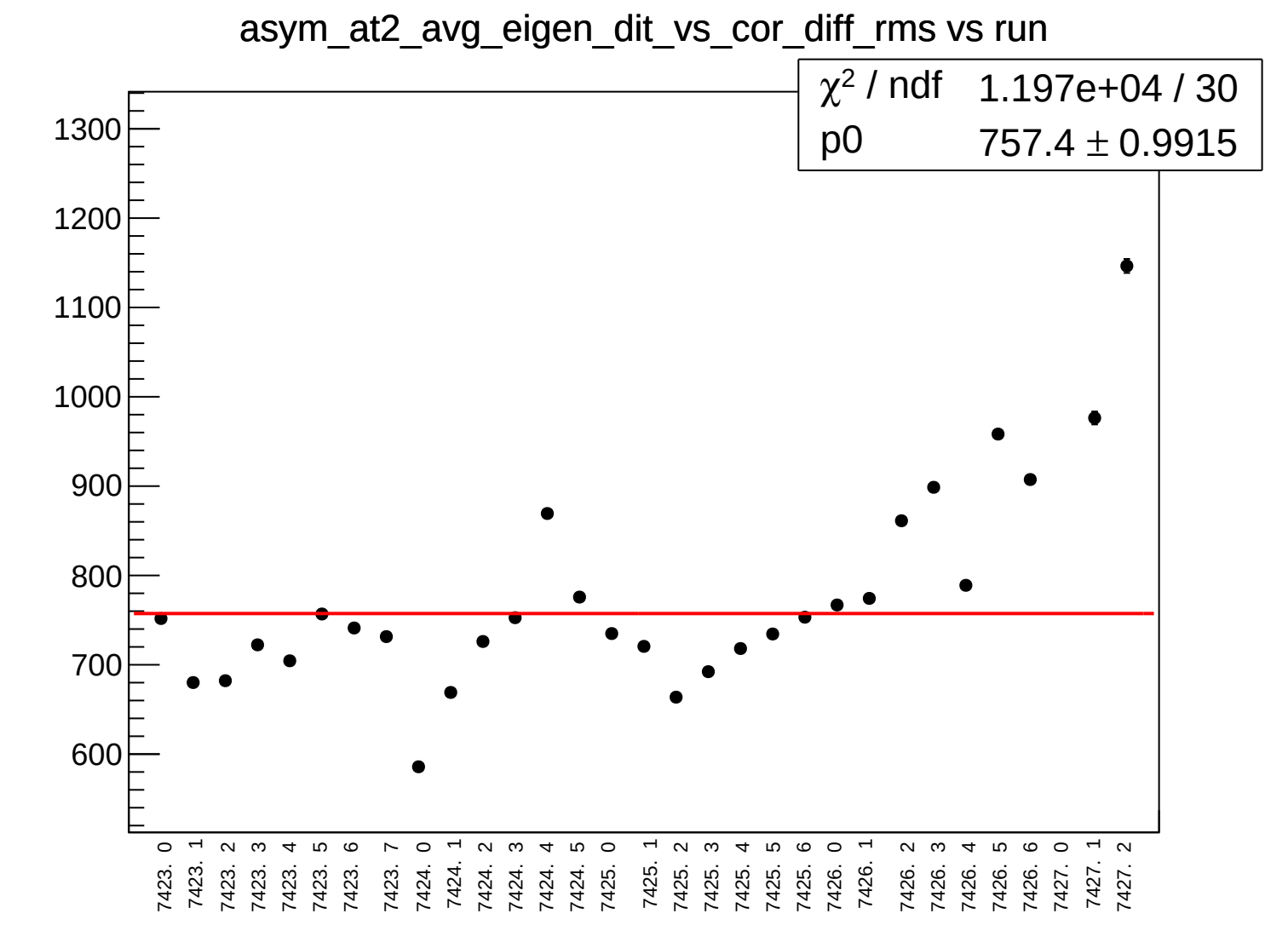

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.197e+04 / 30
p0 757.4 ± 0.9915
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

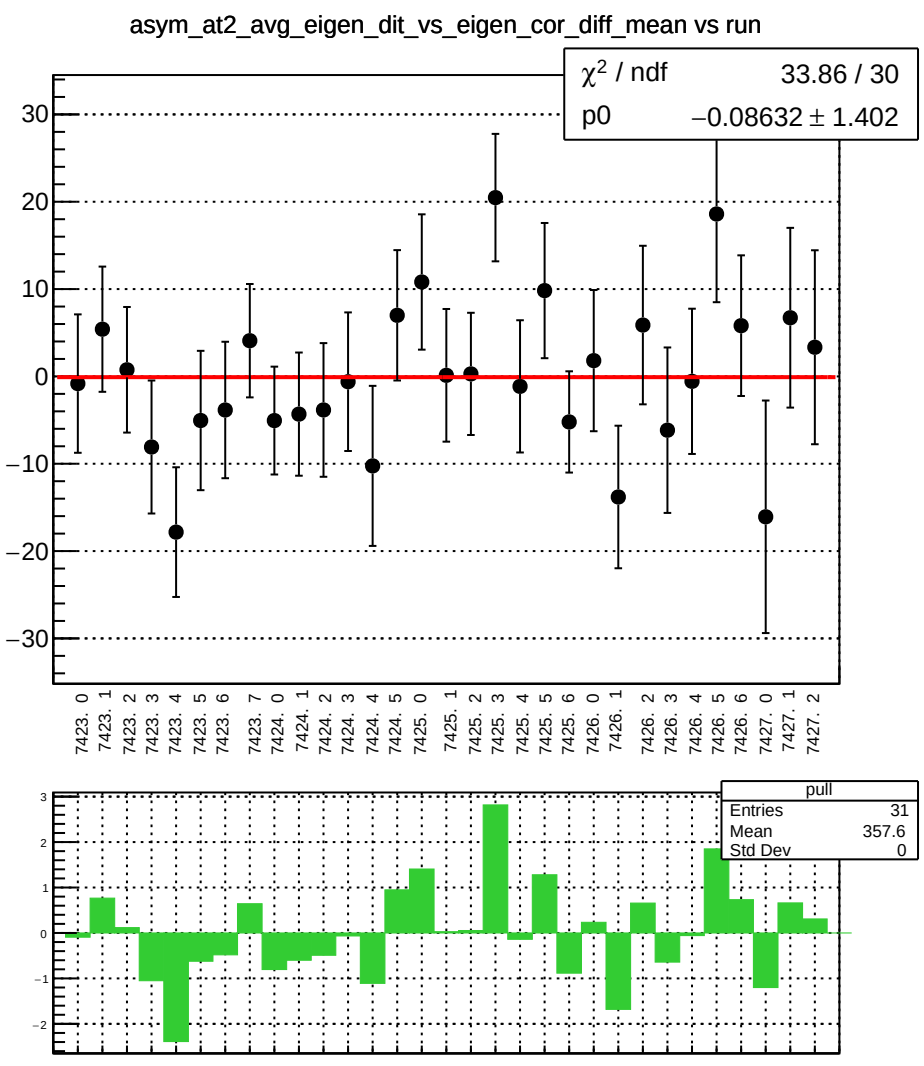

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.96 / 30
p0 4.435e−05 ± 3.891e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −172.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

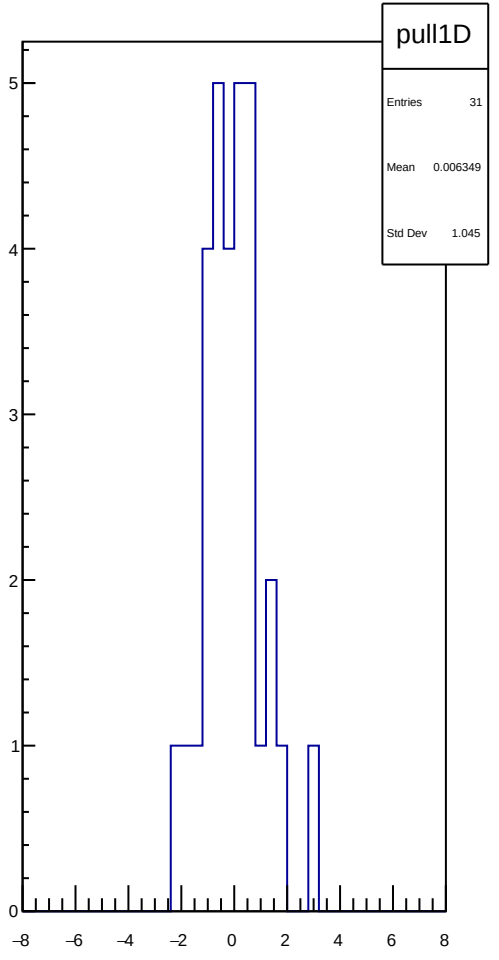

pull1D
Entries 31
Mean −0.0132
Std Dev 0.782
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

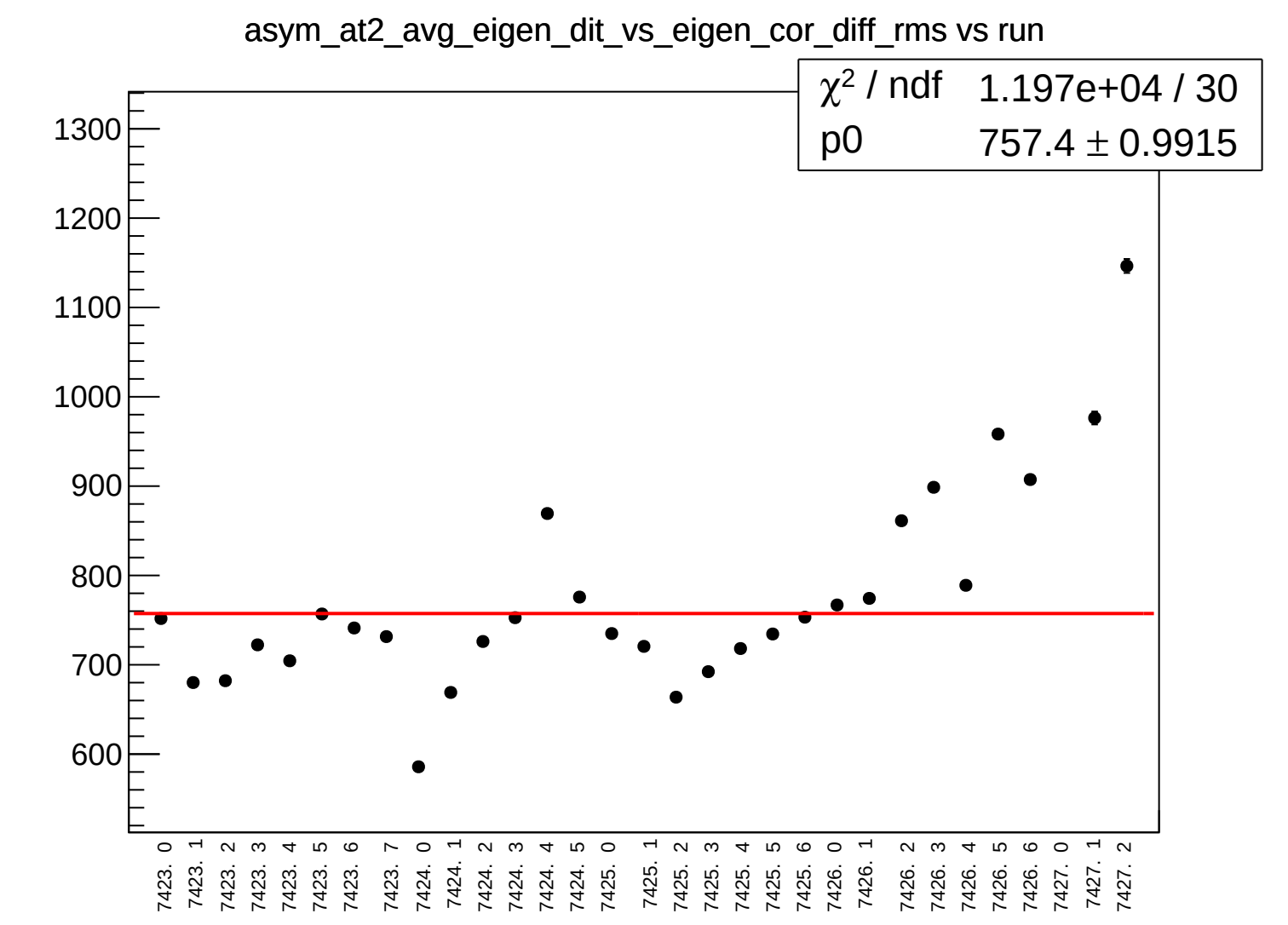

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1341 / 30
p0 0.02121 ± 2.751e–05
0.024
0.023
0.022
0.021
0.02
0.019
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

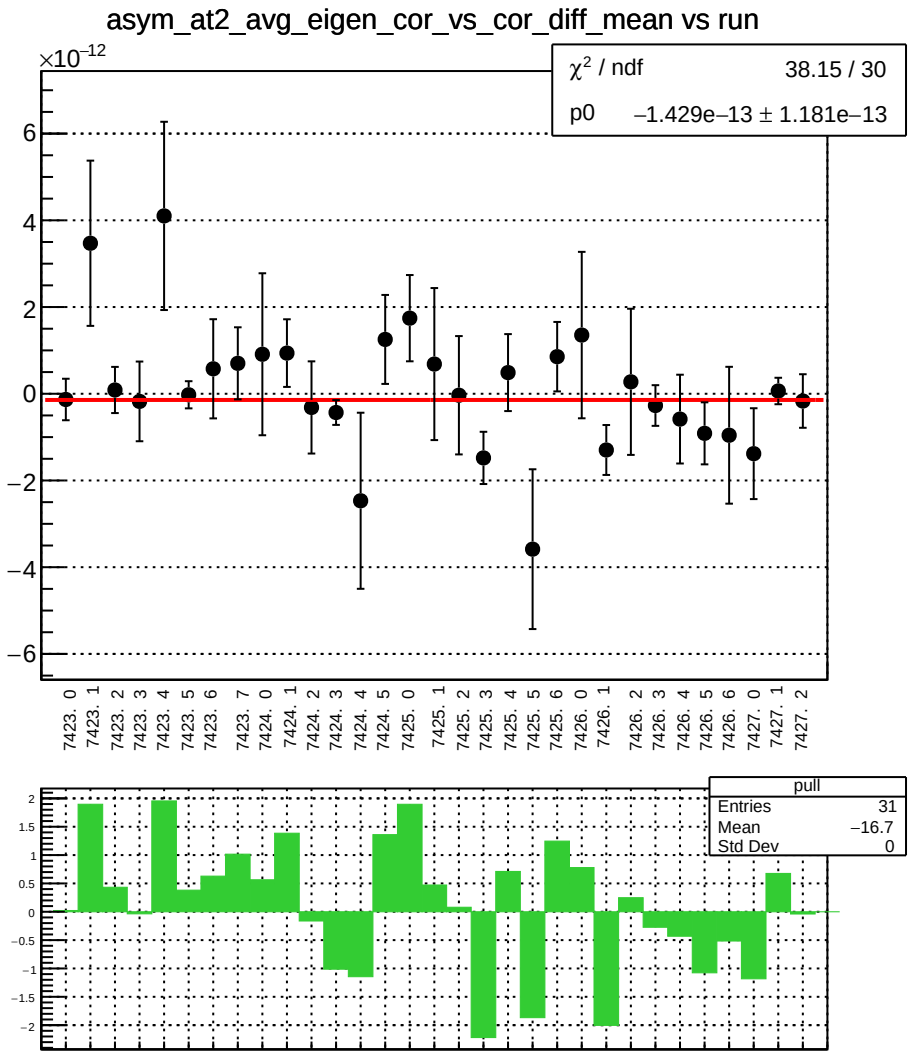

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.86 / 30
p0 −0.08632 ± 1.402
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 357.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.006349
Std Dev 1.045
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

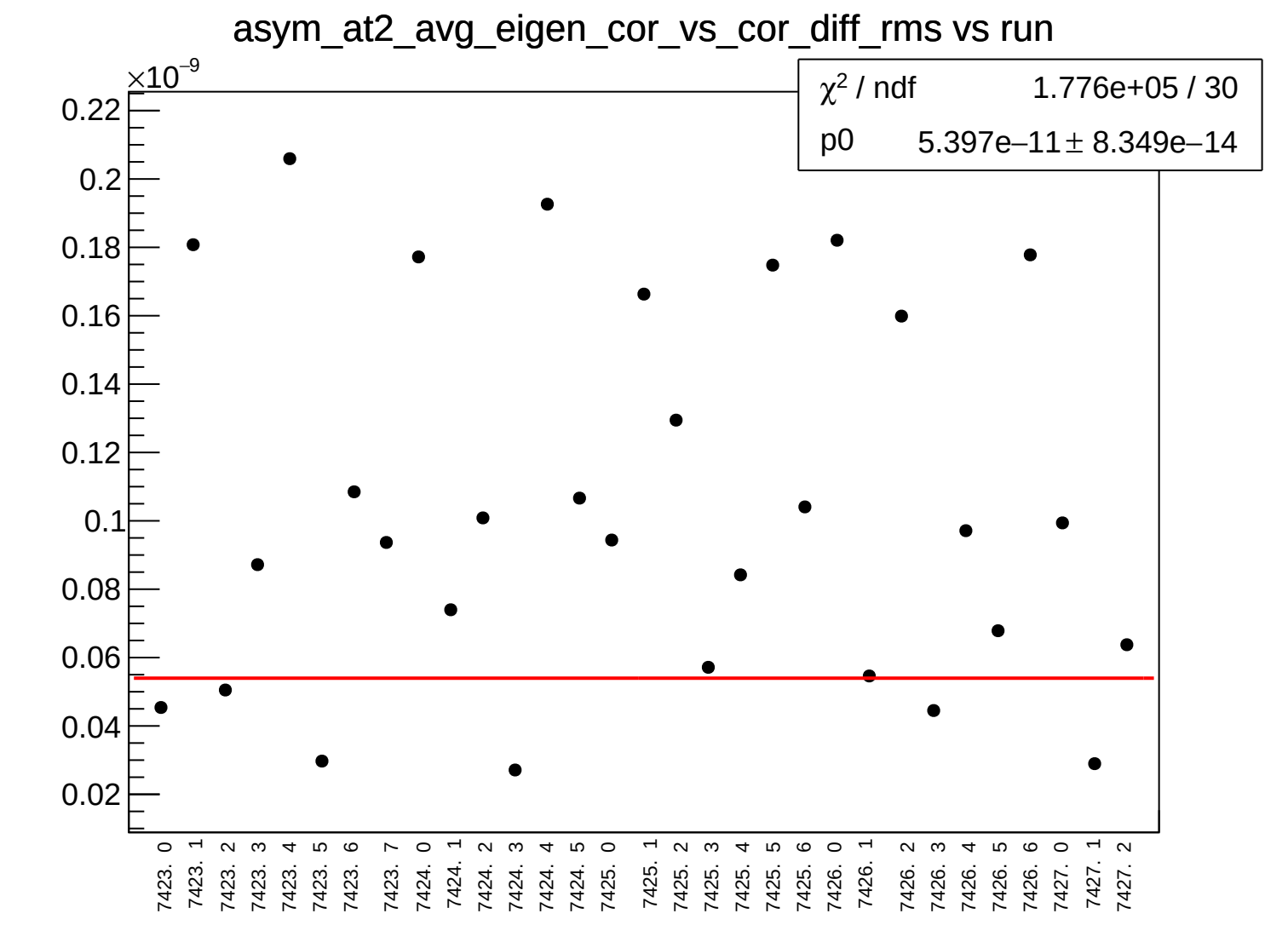

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.197e+04 / 30
p0 757.4 ± 0.9915
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

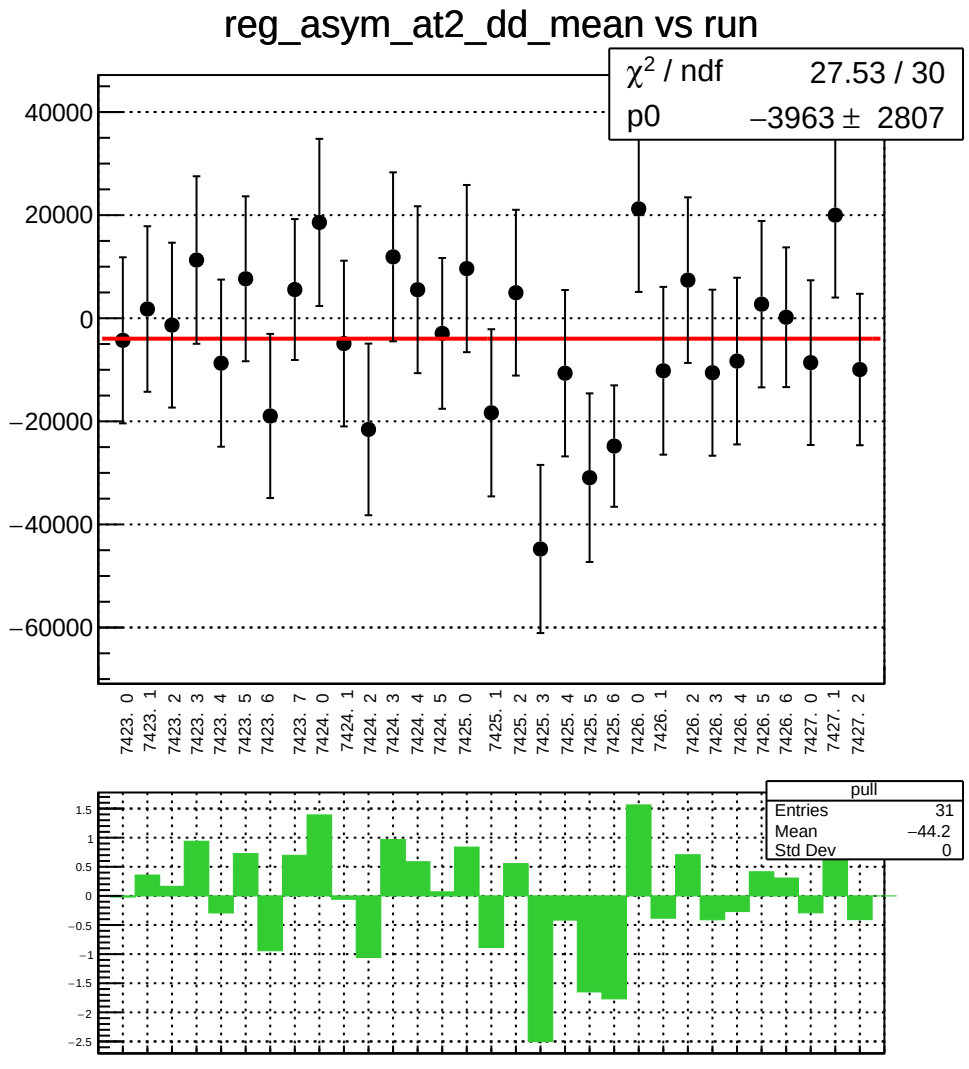

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.86 / 30
p0 −0.08632 ± 1.402
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 357.6
Std Dev 0
3
2
1
0
−1
−2

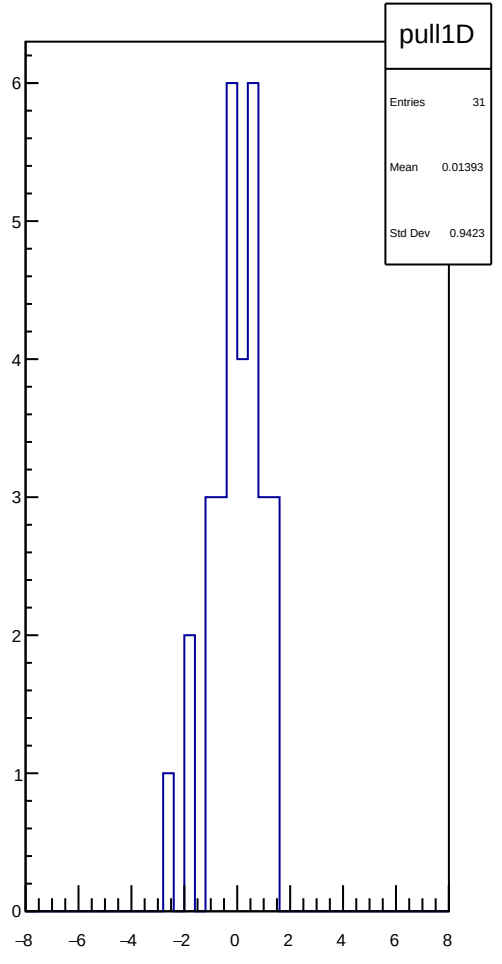

pull1D
Entries 31
Mean 0.006349
Std Dev 1.045
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

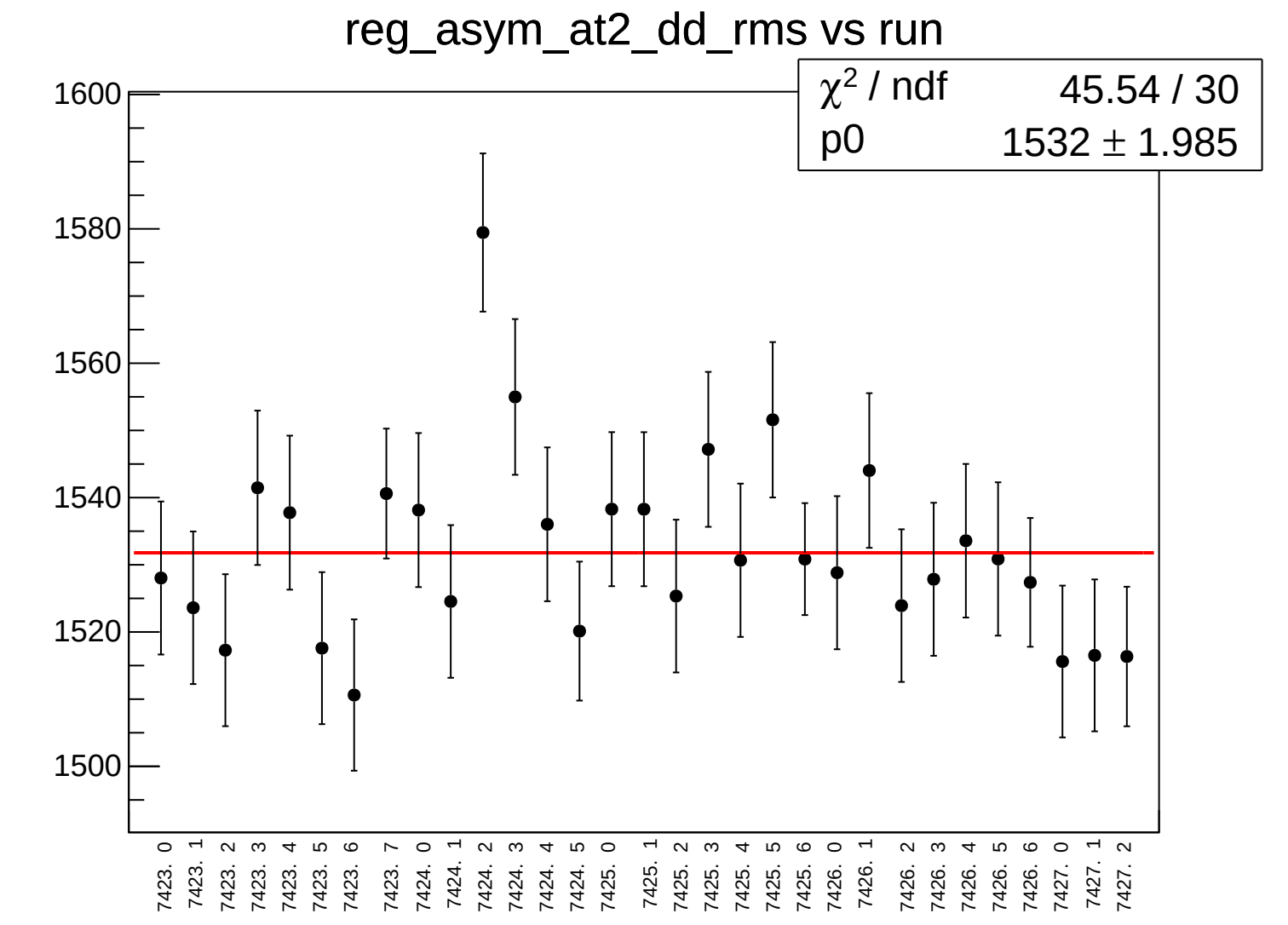

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.197e+04 / 30
p0 757.4 ± 0.9915
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

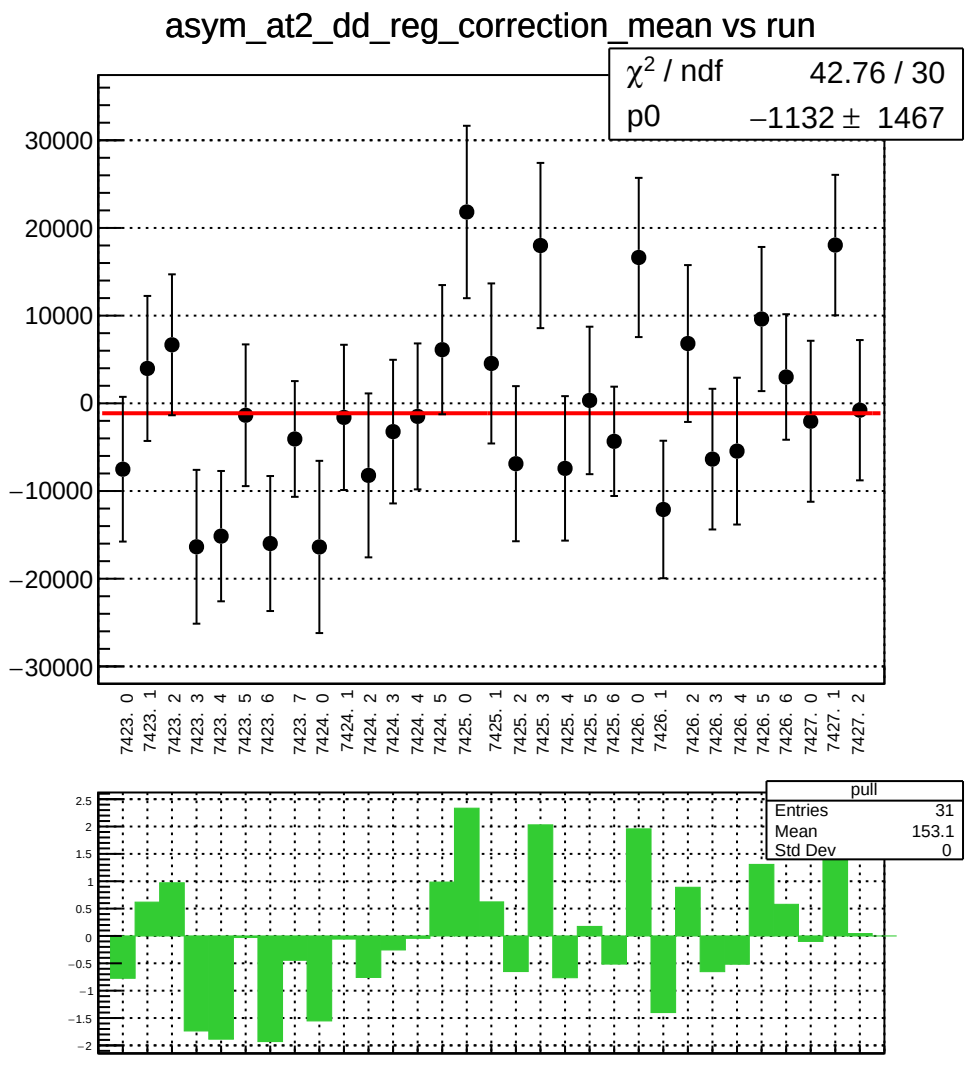

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.15 / 30
p0 −1.429e−13 ± 1.181e−13
6
4
2
0
−2
−4
−6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −16.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.1221
Std Dev 1.103
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

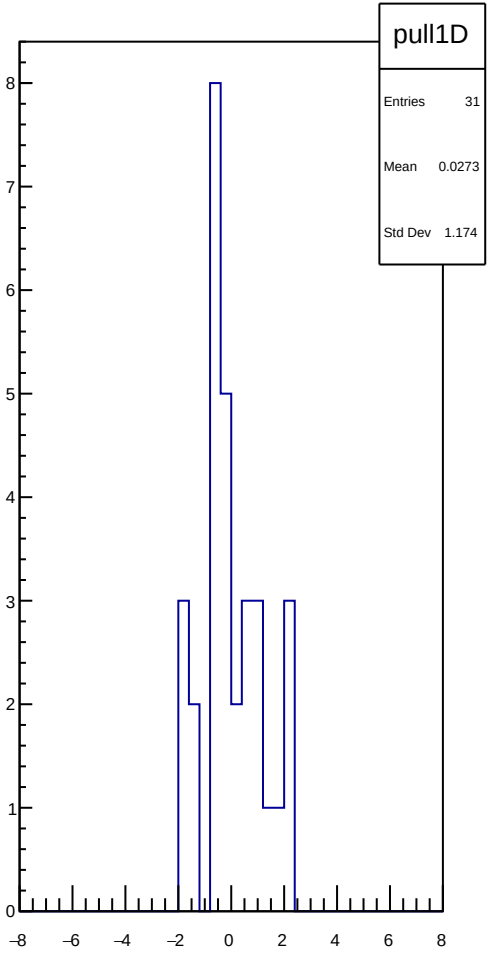

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.776e+05 / 30
p0 5.397e−11 ± 8.349e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

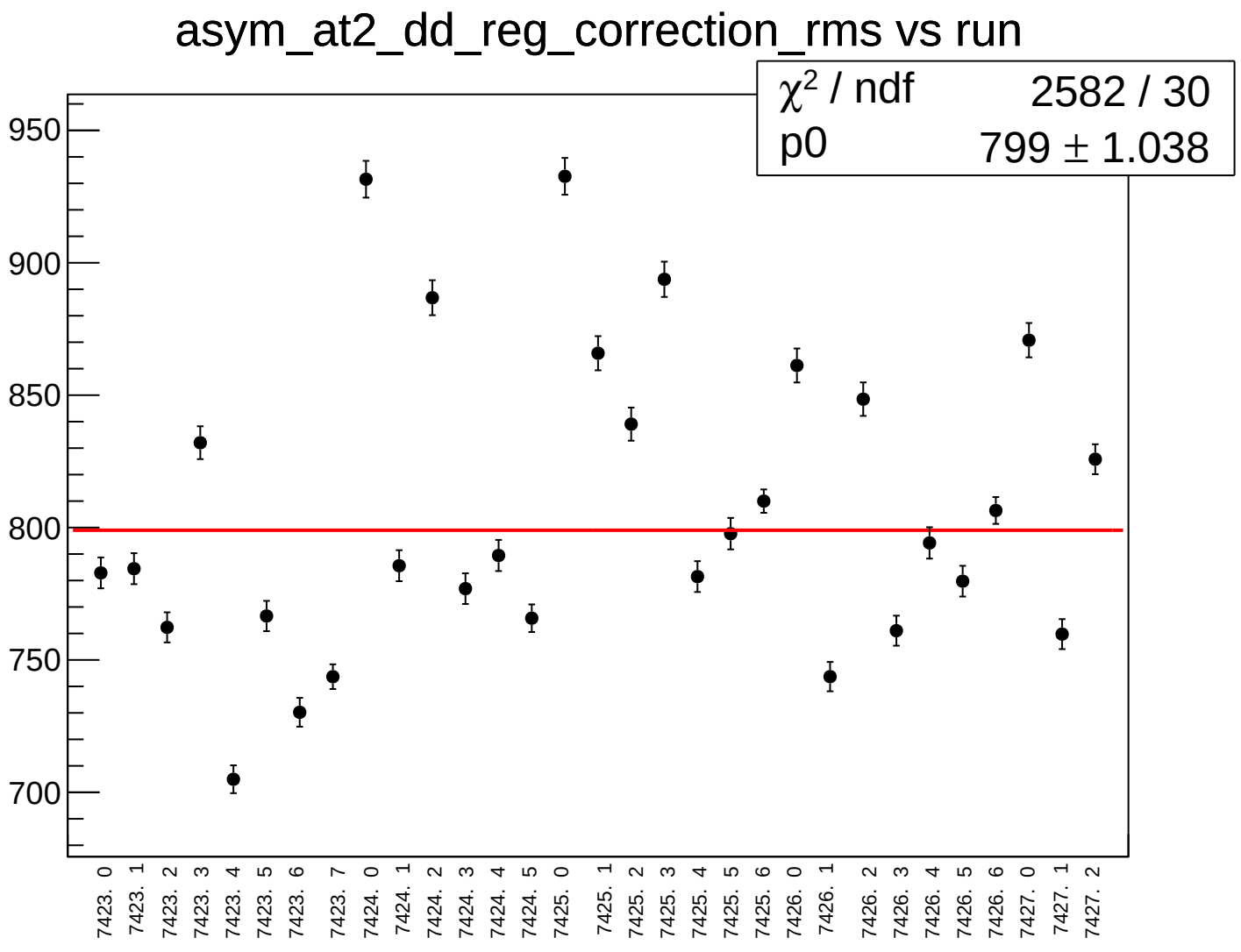

reg_asym_at2_dd_mean vs run
χ² / ndf 27.53 / 30
p0 −3963 ± 2807
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −44.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

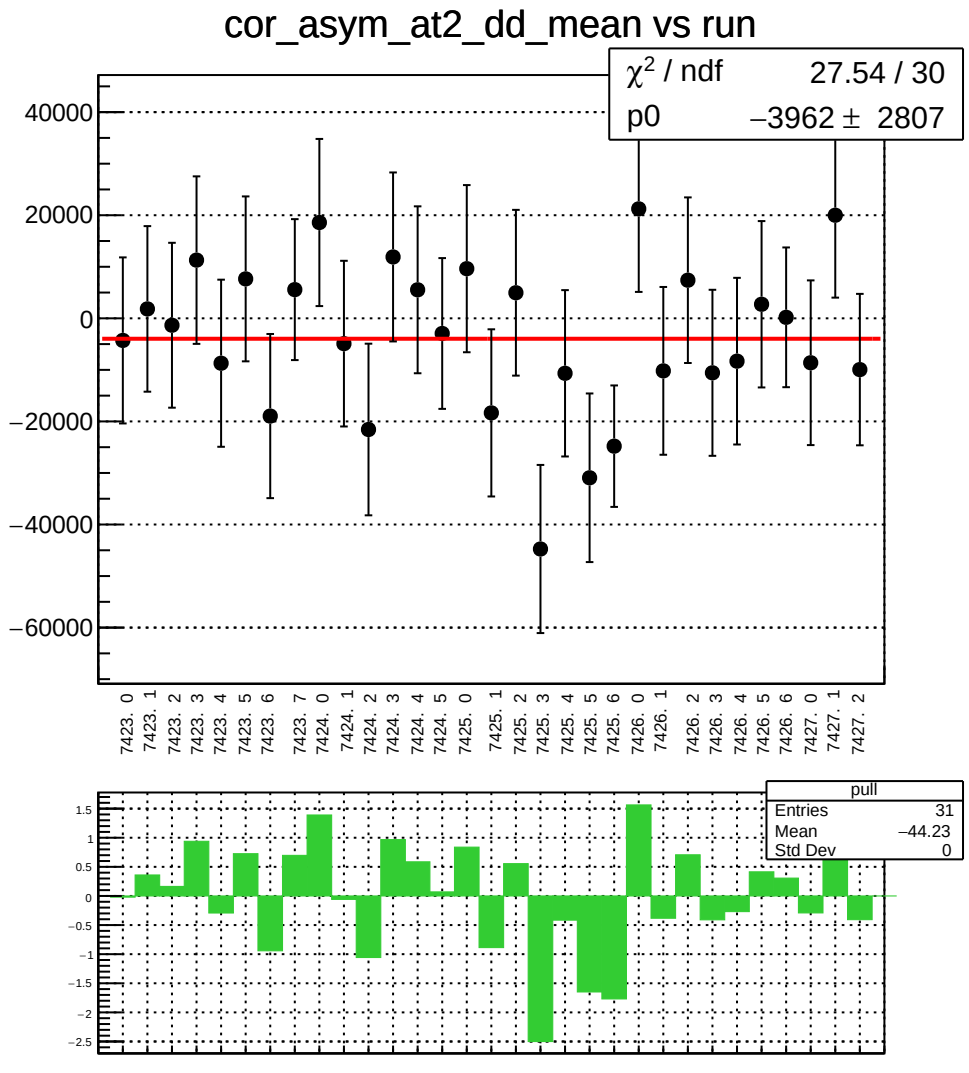

pull1D
Entries 31
Mean 0.01393
Std Dev 0.9423
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

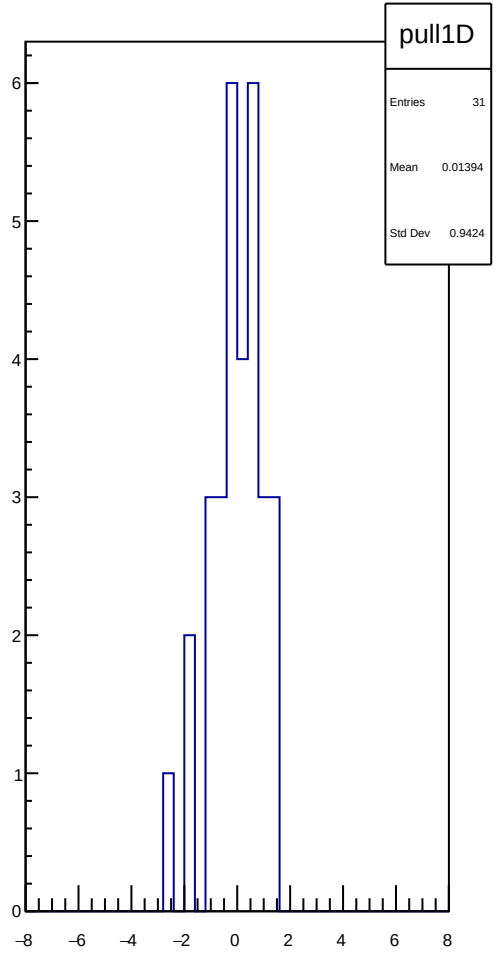

reg_asym_at2_dd_rms vs run
χ² / ndf 45.54 / 30
p0 1532 ± 1.985
1600
1580
1560
1540
1520
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

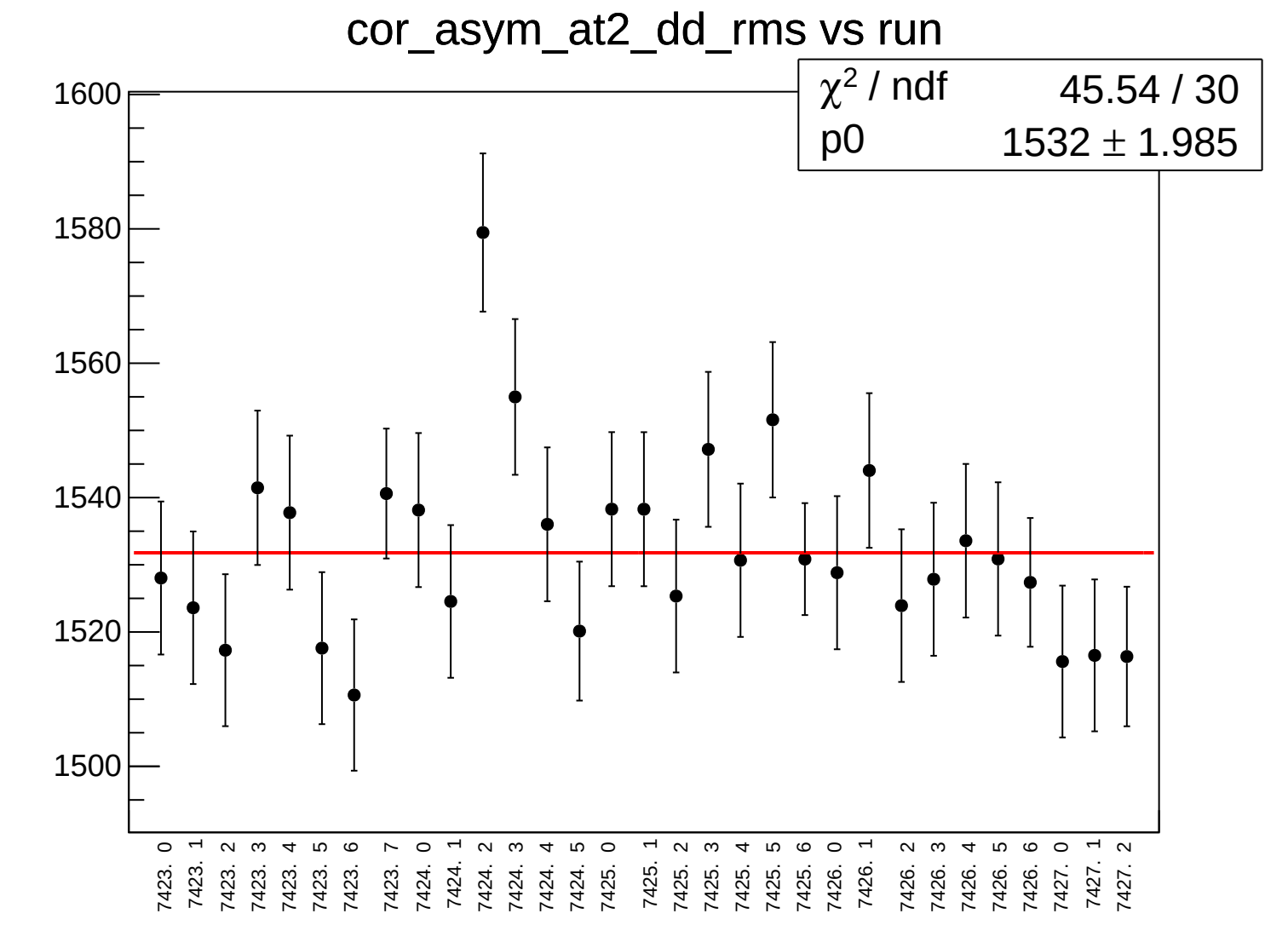

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 42.76 / 30
p0 −1132 ± 1467
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 153.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

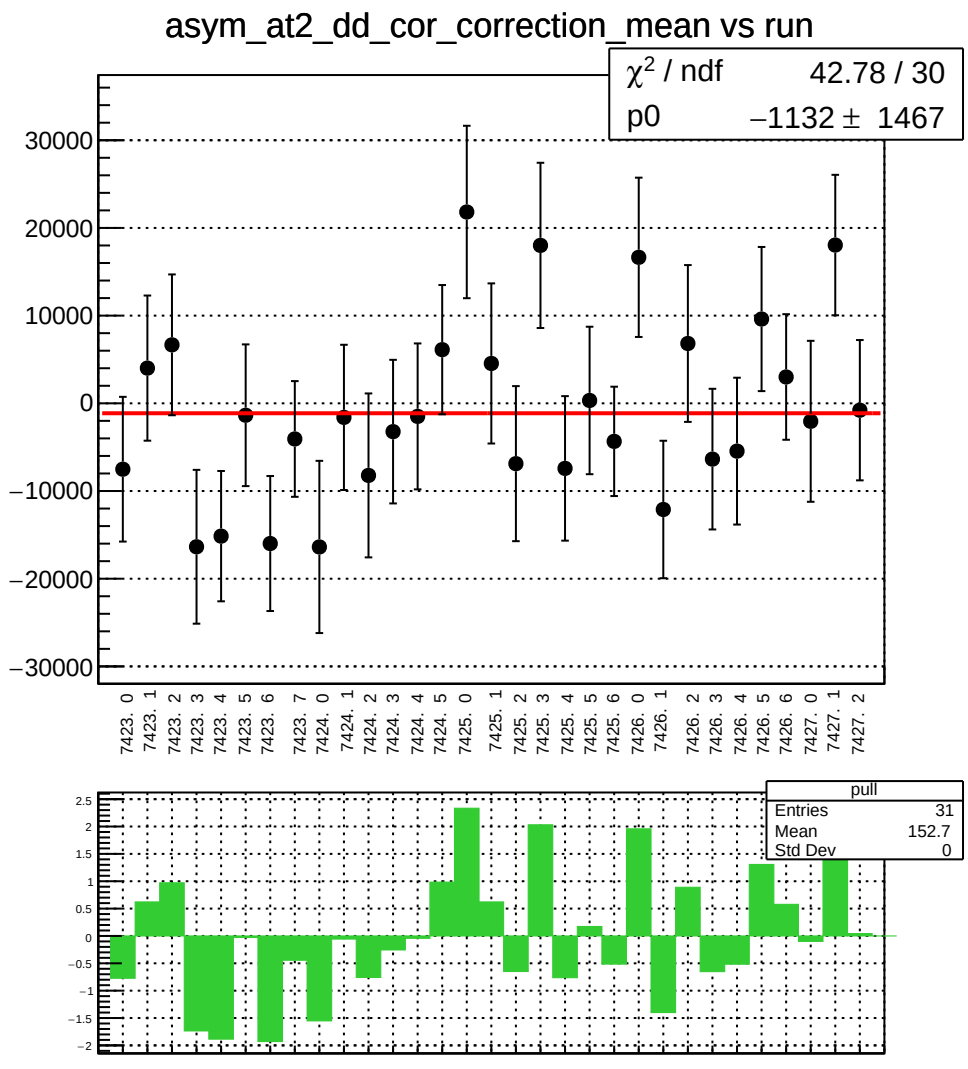

pull1D
Entries 31
Mean 0.0273
Std Dev 1.174
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

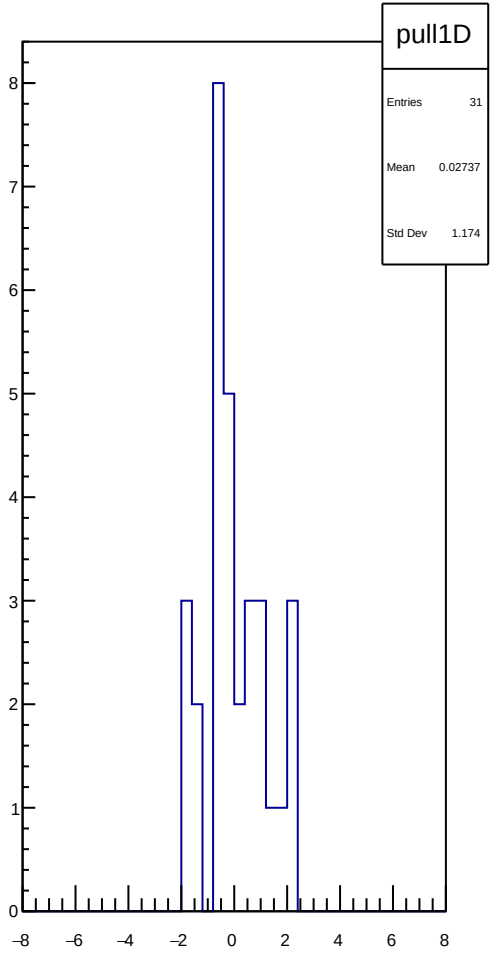

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2582 / 30
p0 799 ± 1.038
950
900
850
800
750
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

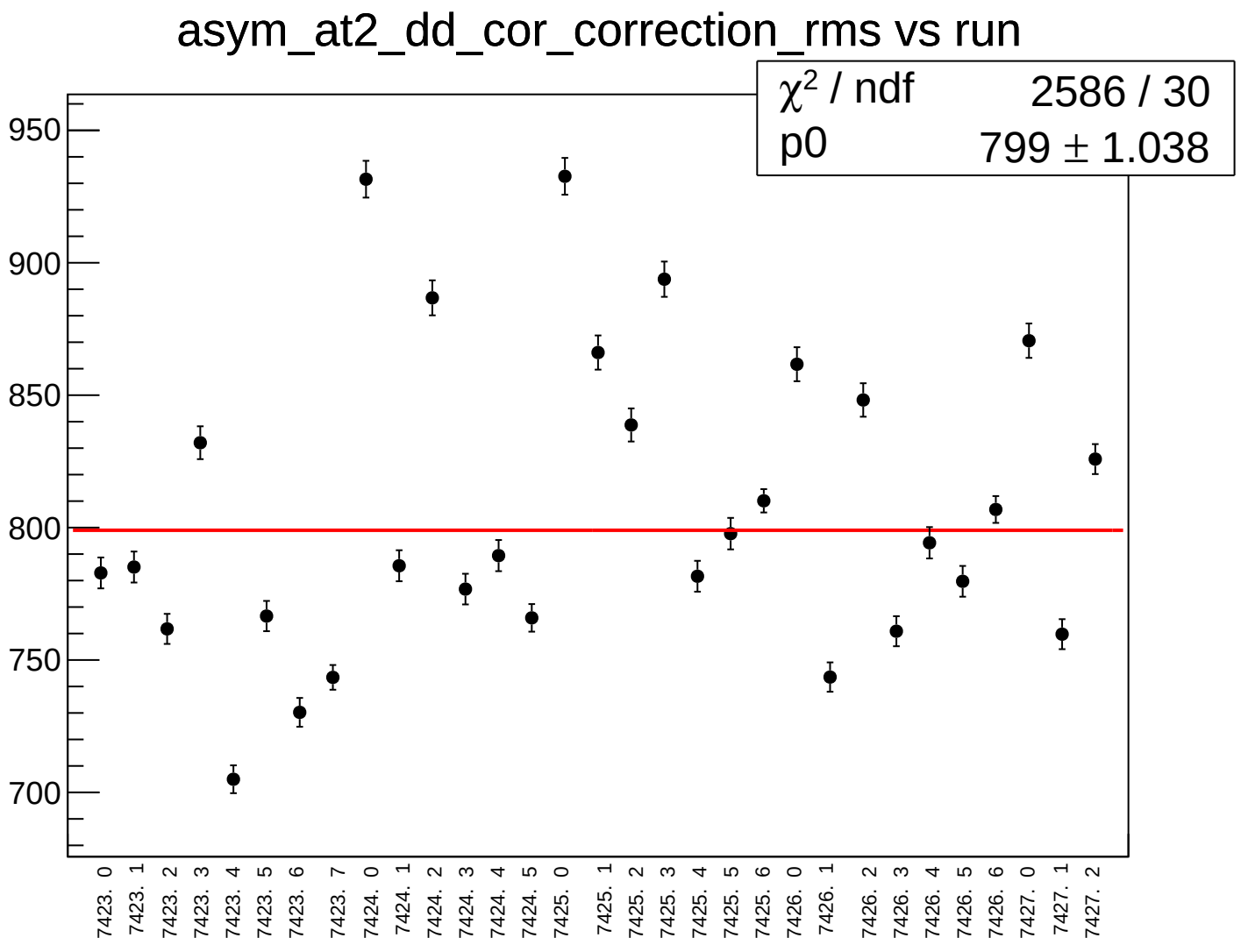

cor_asym_at2_dd_mean vs run
χ² / ndf 27.54 / 30
p0 −3962 ± 2807
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −44.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

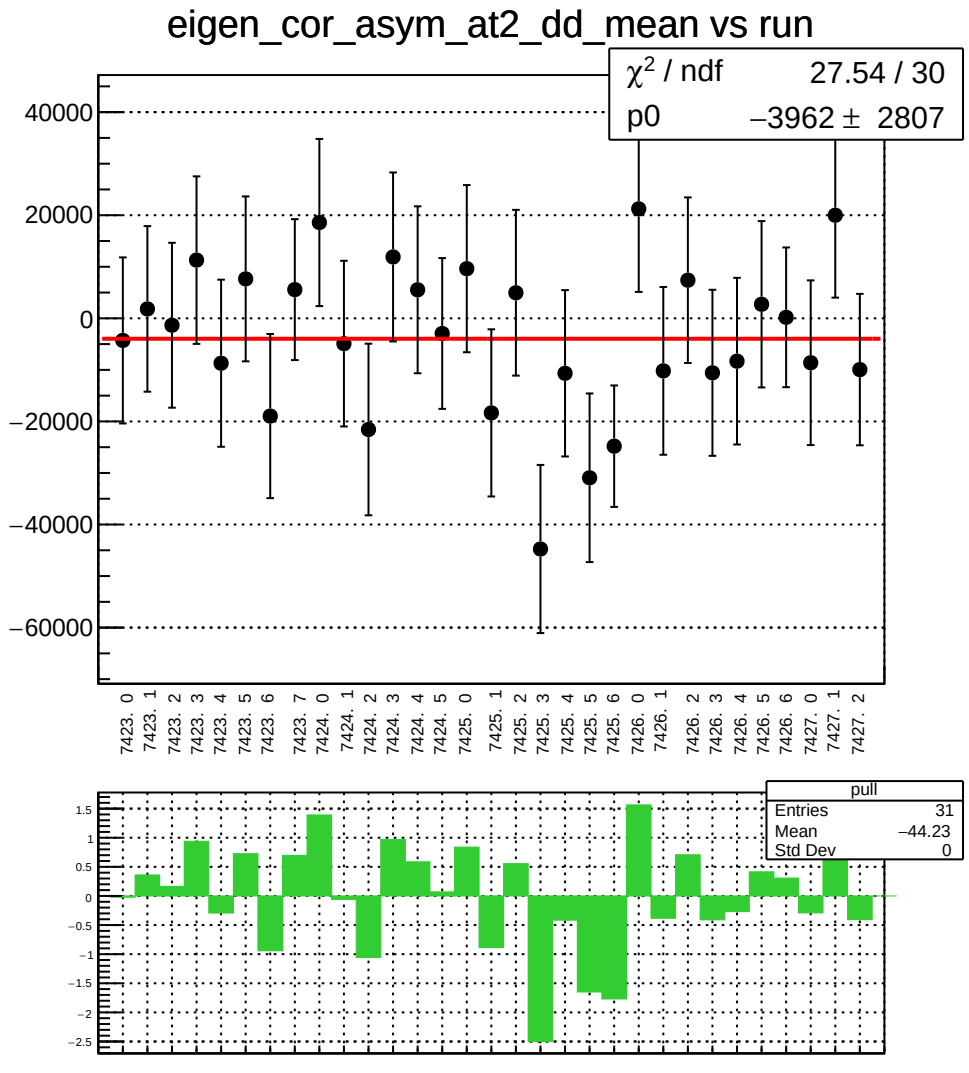

pull1D
Entries 31
Mean 0.01394
Std Dev 0.9424
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

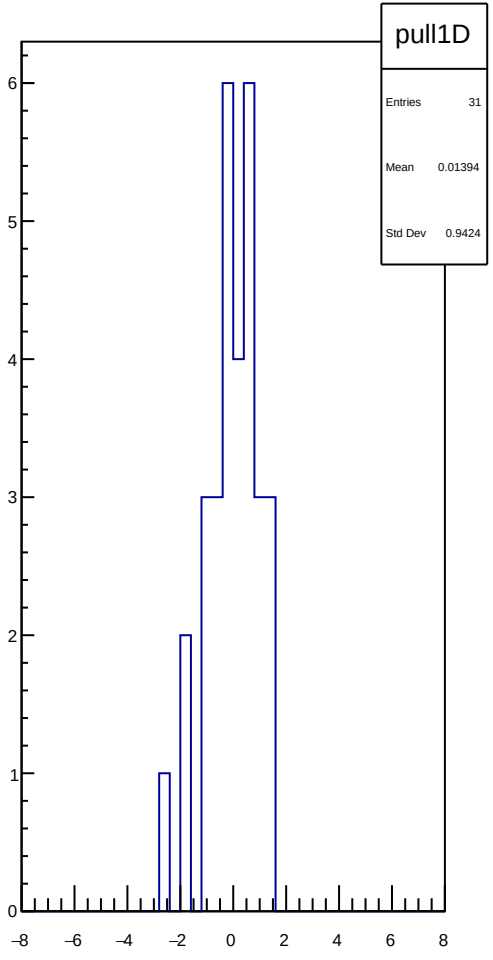

cor_asym_at2_dd_rms vs run
χ² / ndf 45.54 / 30
p0 1532 ± 1.985
1600
1580
1560
1540
1520
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

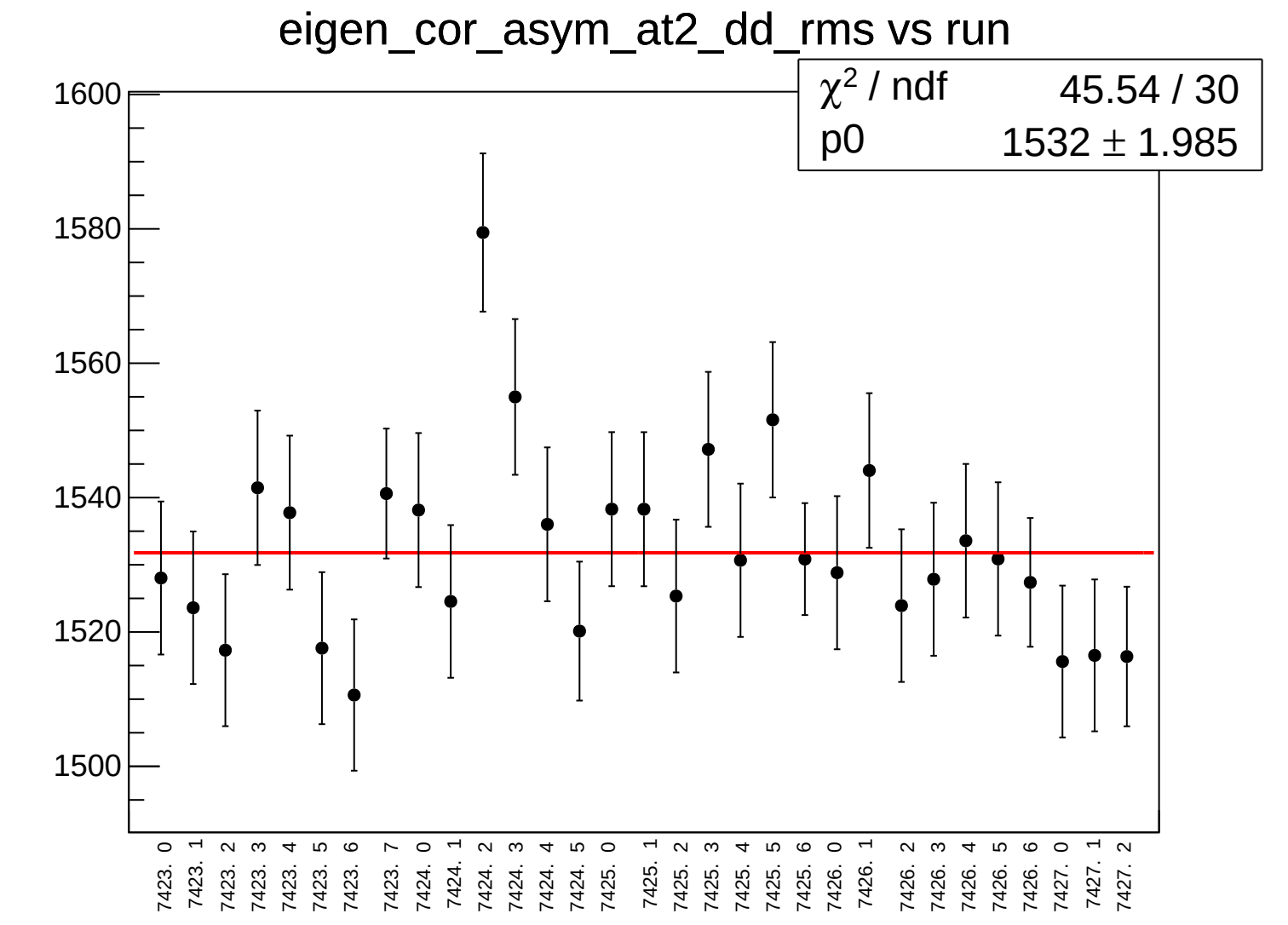

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 42.78 / 30
p0 −1132 ± 1467
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 152.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

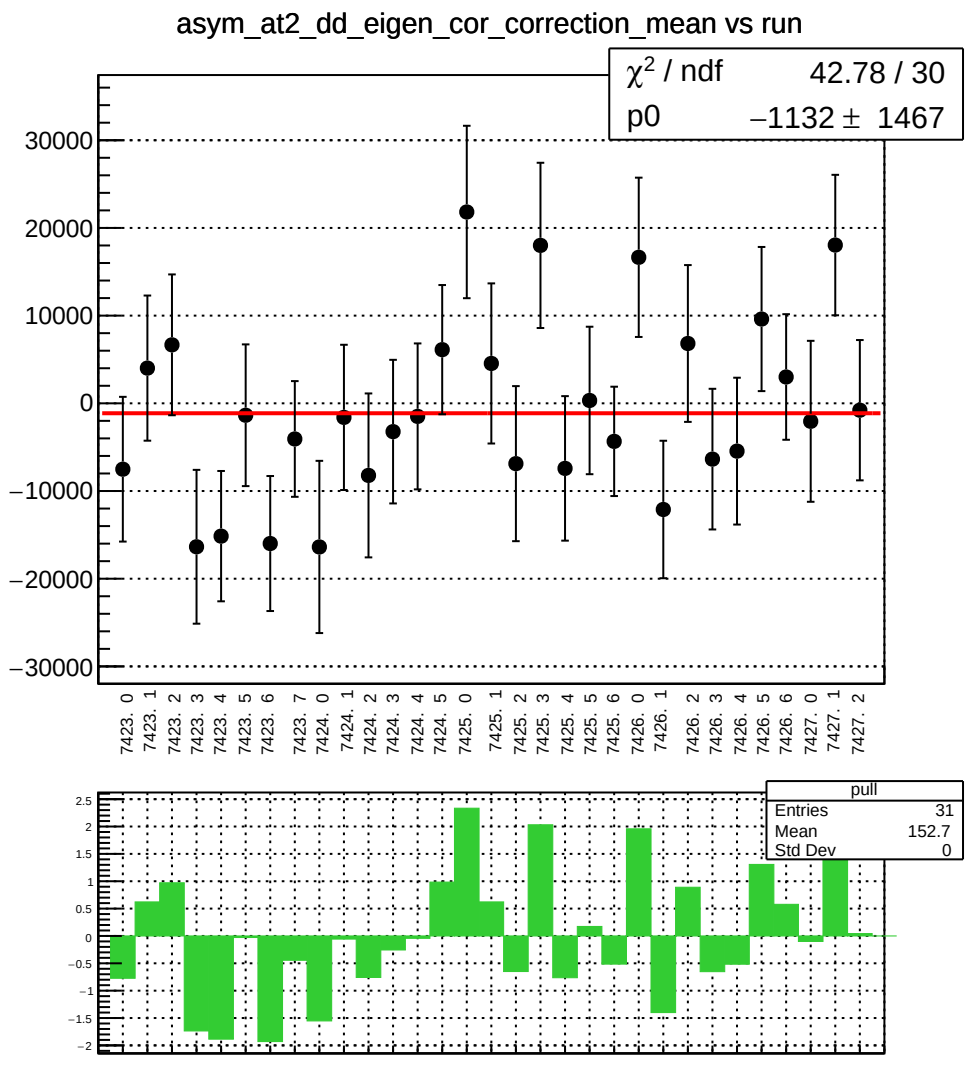

pull1D
Entries 31
Mean 0.02737
Std Dev 1.174
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

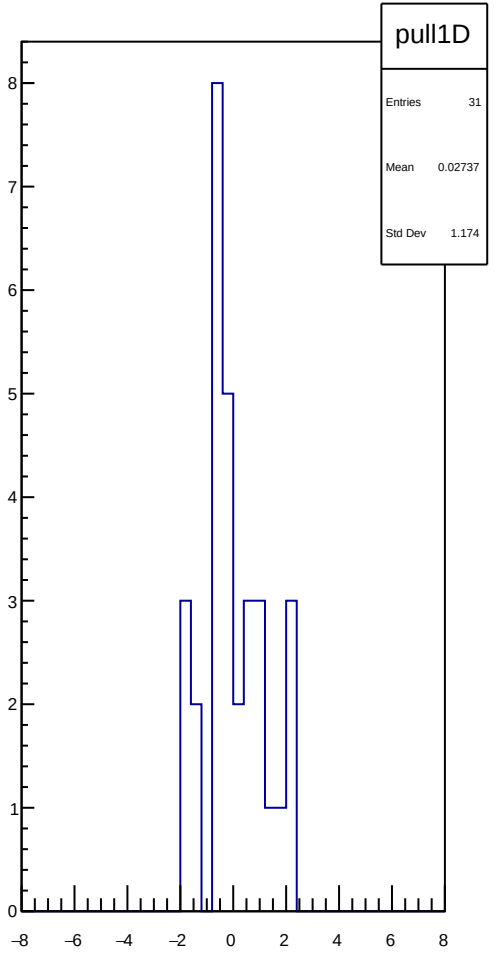

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2586 / 30
p0 799 ± 1.038
950
900
850
800
750
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

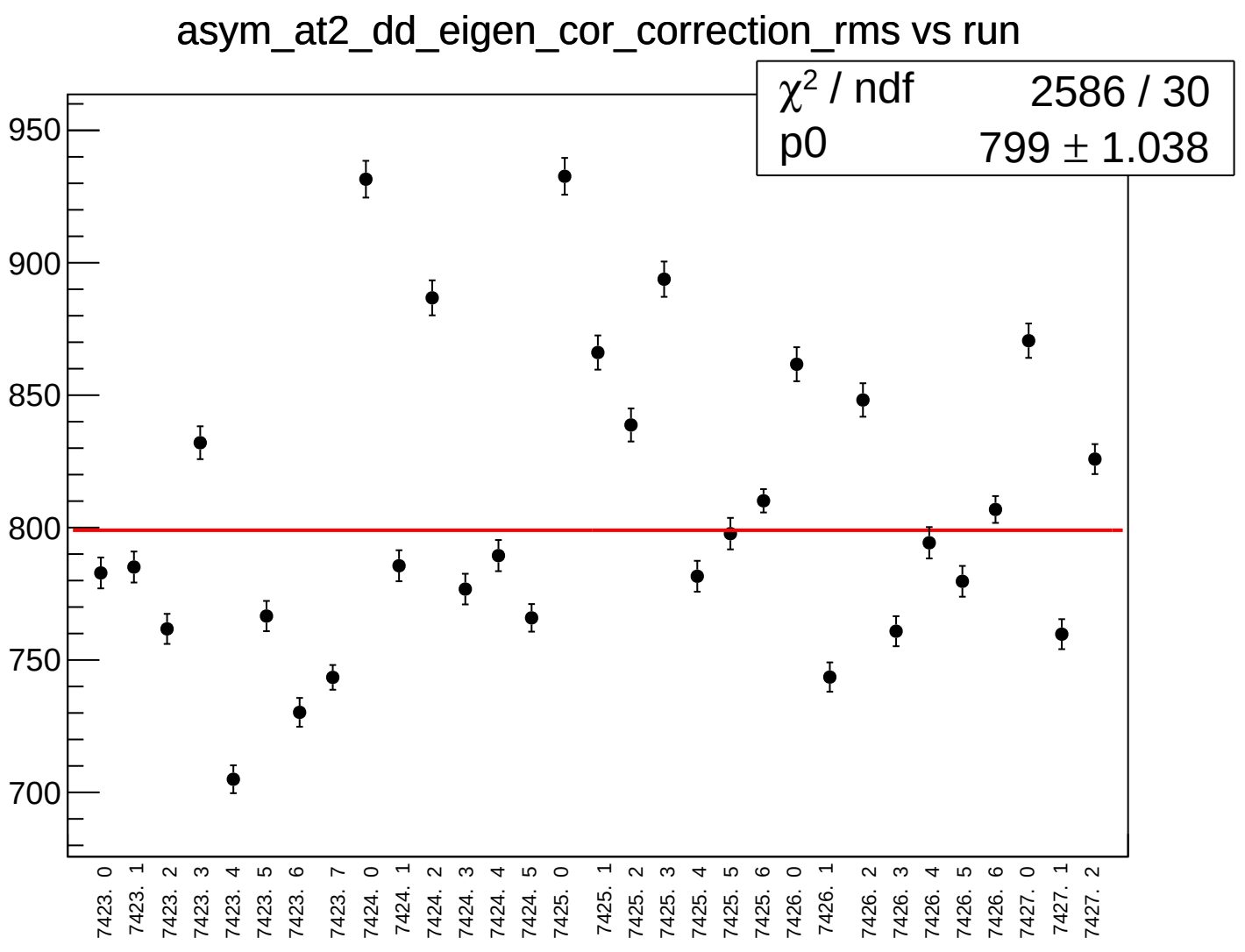

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 27.54 / 30
p0 −3962 ± 2807
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −44.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

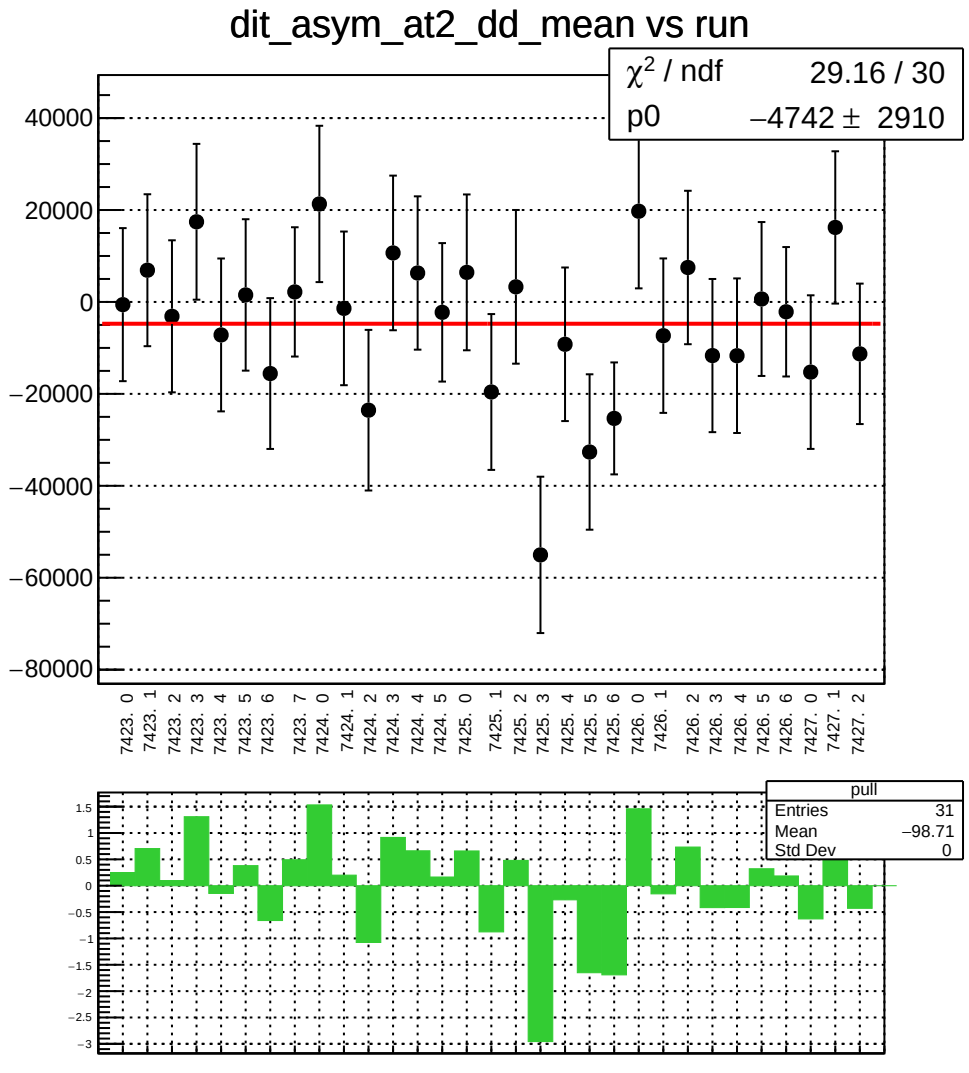

pull1D
Entries 31
Mean 0.01394
Std Dev 0.9424
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

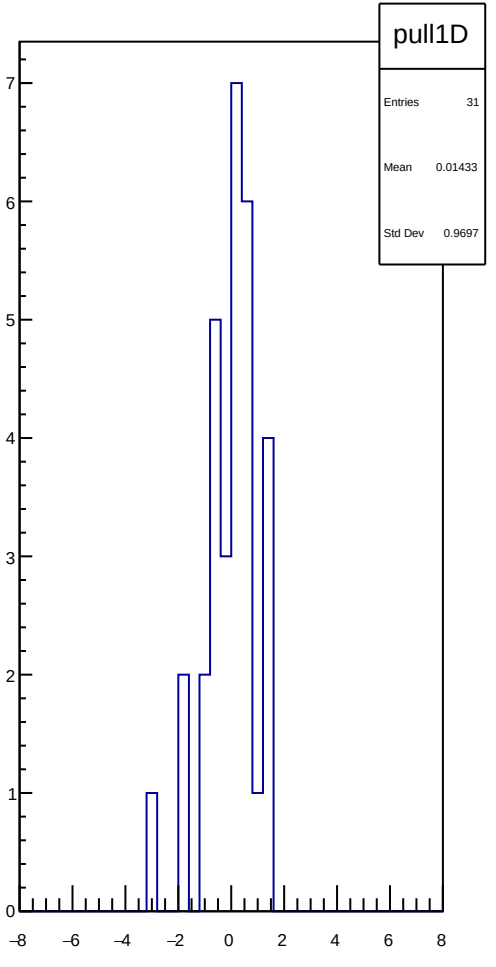

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 45.54 / 30
p0 1532 ± 1.985
1600
1580
1560
1540
1520
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

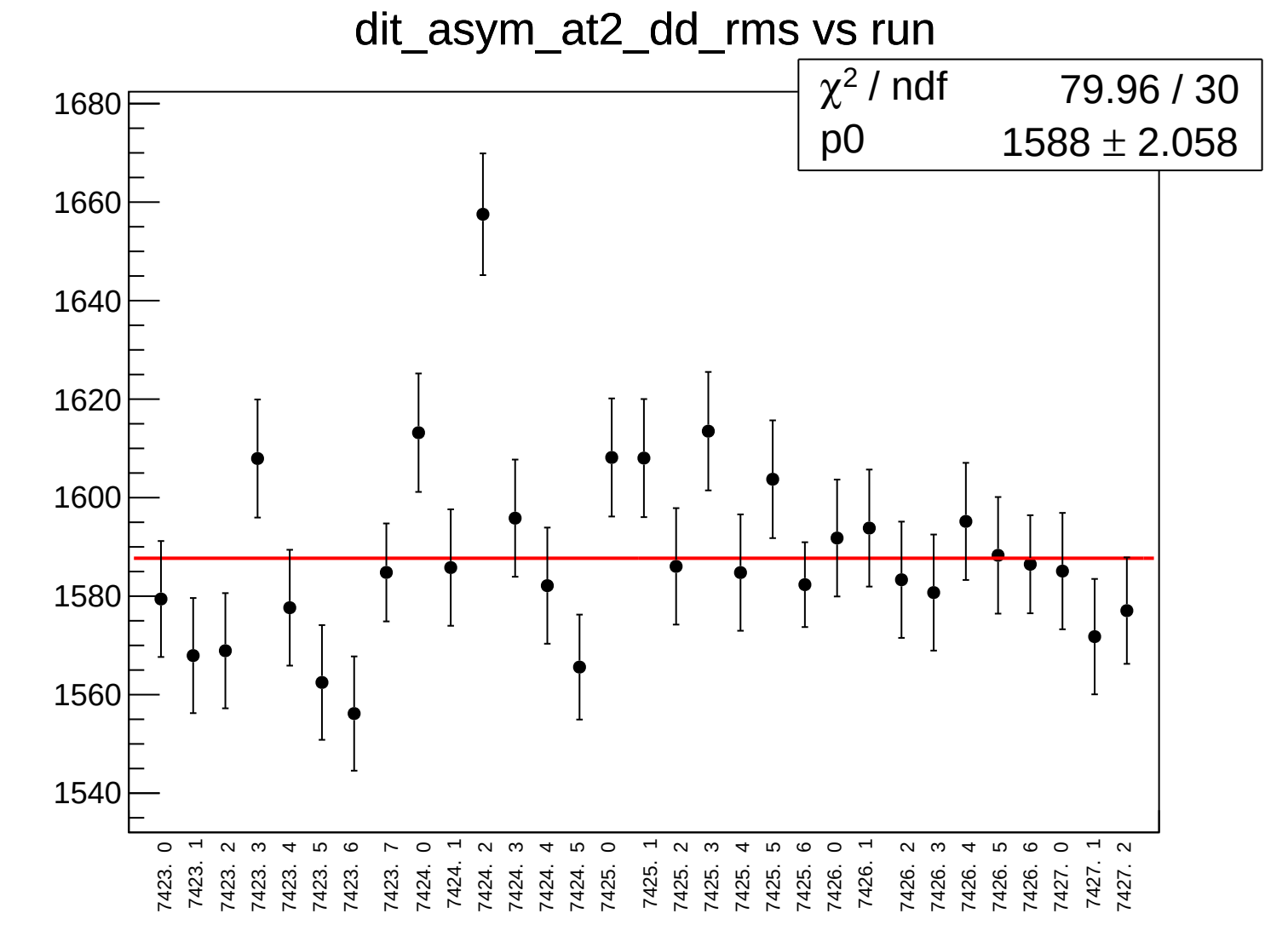

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 42.78 / 30
p0 −1132 ± 1467
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 152.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

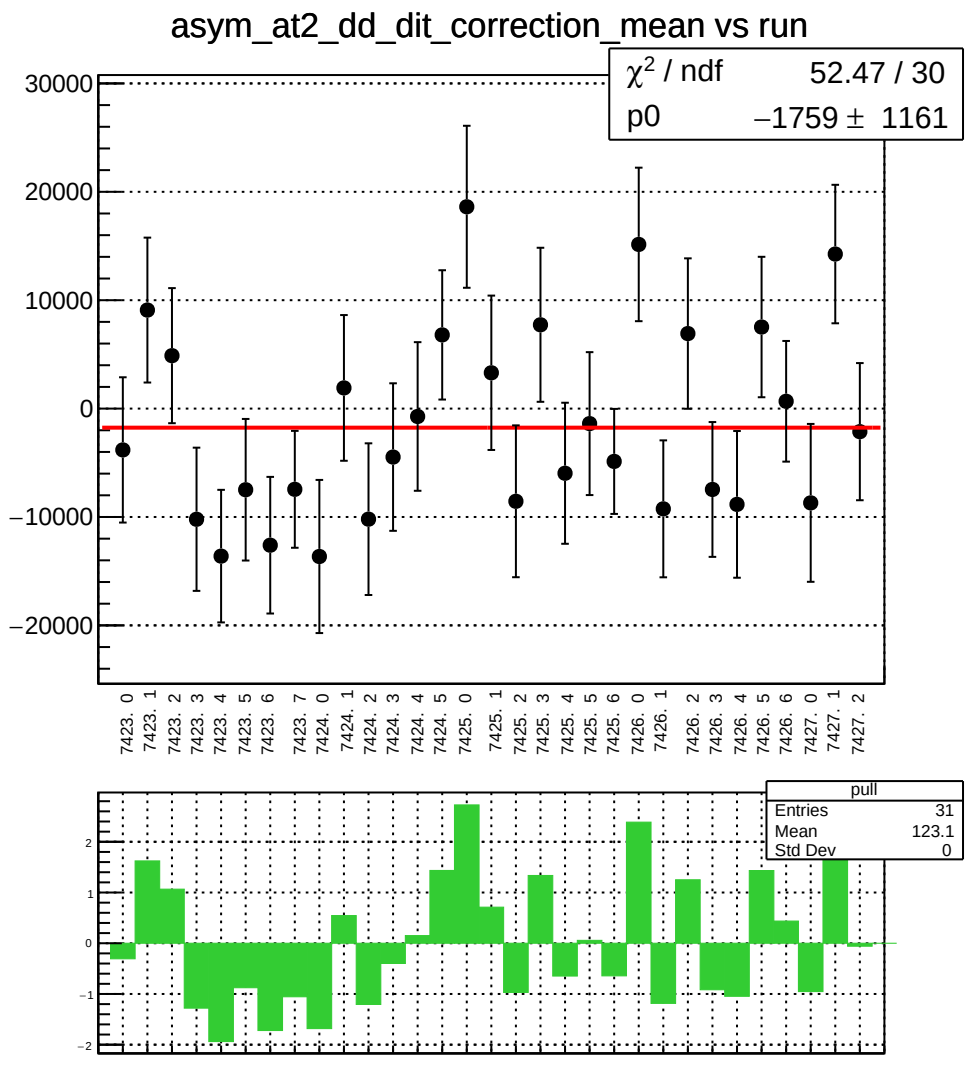

pull1D
Entries 31
Mean 0.02737
Std Dev 1.174
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

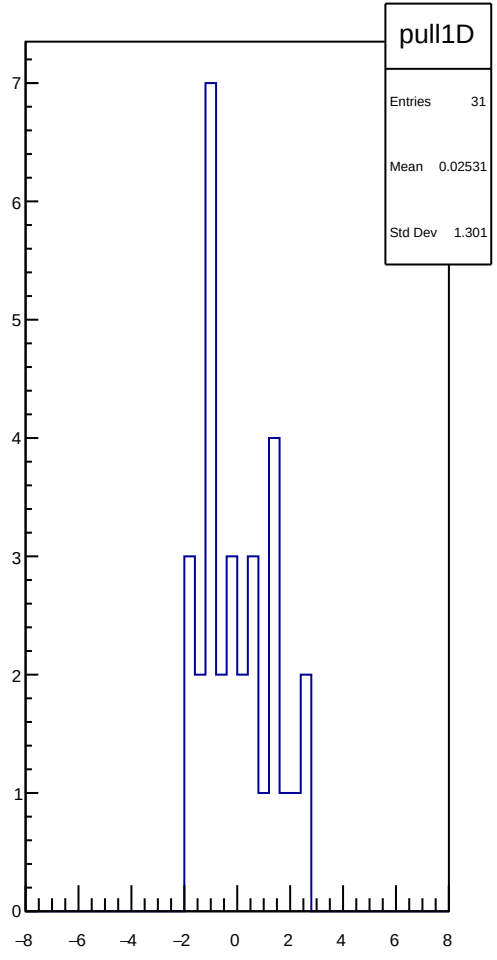

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2586 / 30
p0 799 ± 1.038
950
900
850
800
750
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

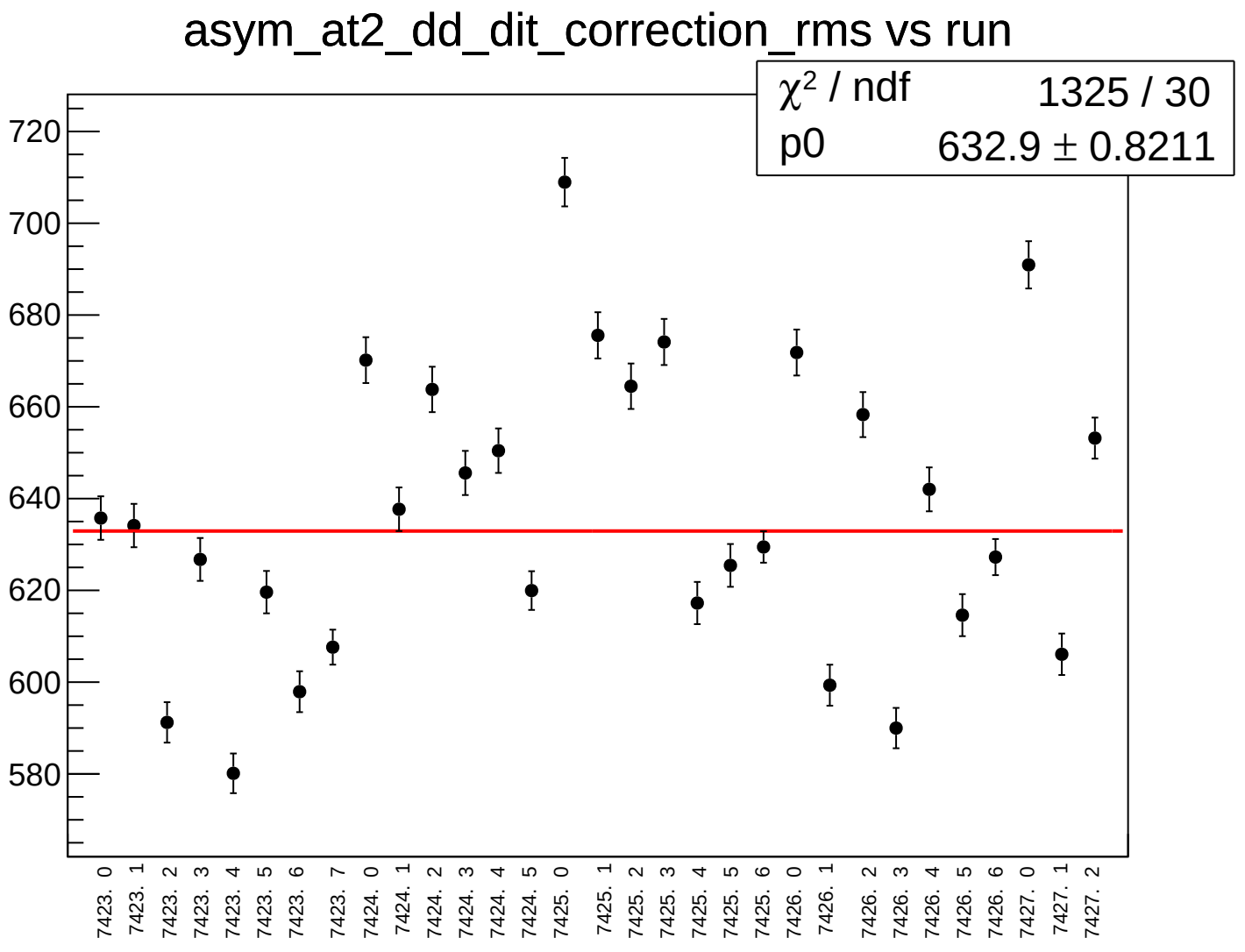

dit_asym_at2_dd_mean vs run
χ² / ndf 29.16 / 30
p0 −4742 ± 2910
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −98.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

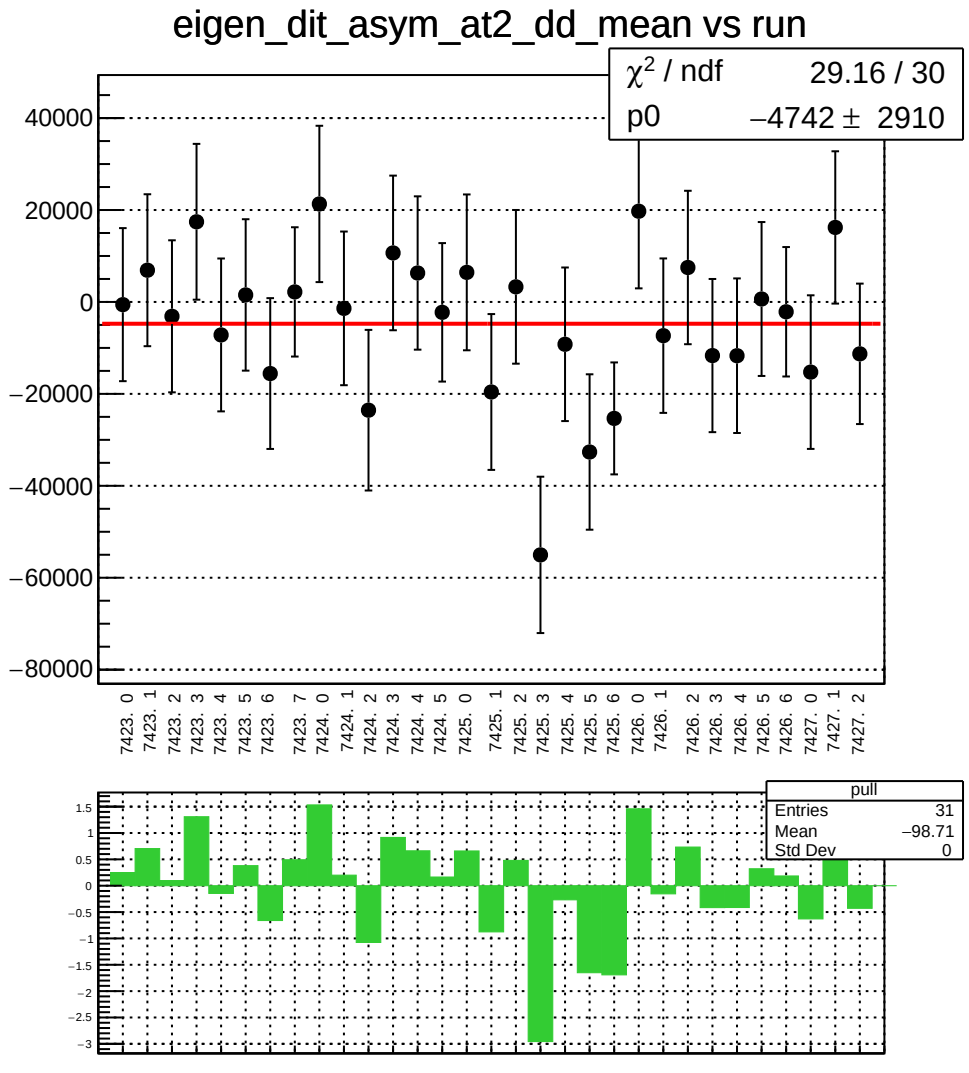

pull1D
Entries 31
Mean 0.01433
Std Dev 0.9697
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

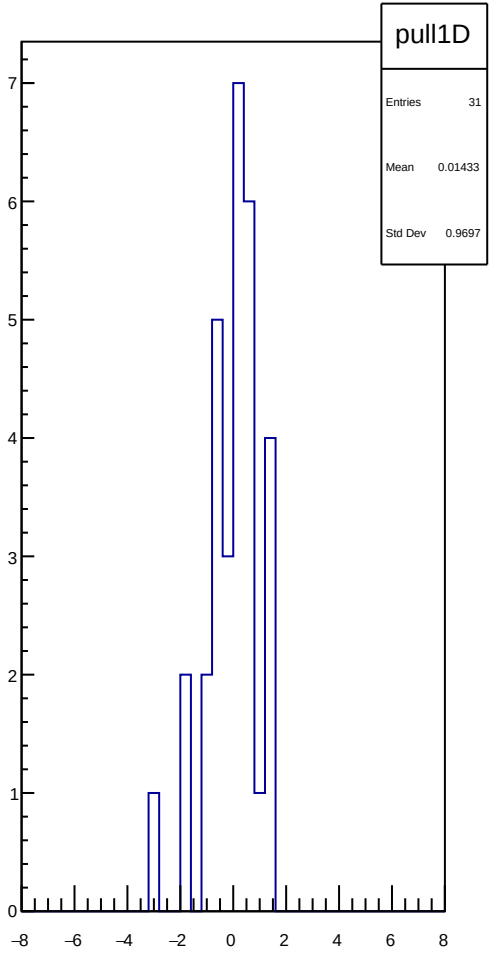

dit_asym_at2_dd_rms vs run
χ² / ndf 79.96 / 30
p0 1588 ± 2.058
1680
1660
1640
1620
1600
1580
1560
1540
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

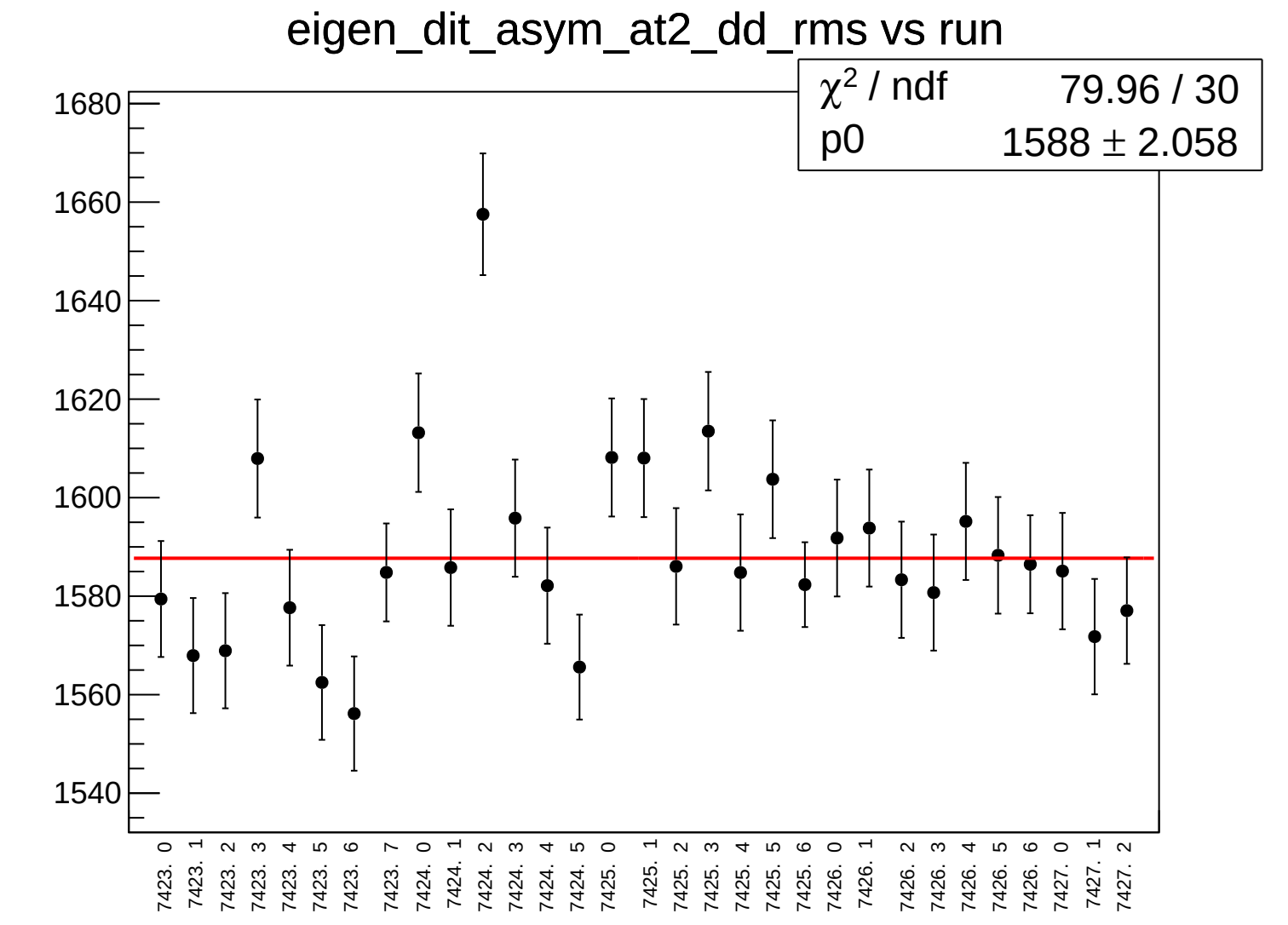

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 52.47 / 30
p0 −1759 ± 1161
30000
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 123.1
Std Dev 0
2
1
0
−1
−2

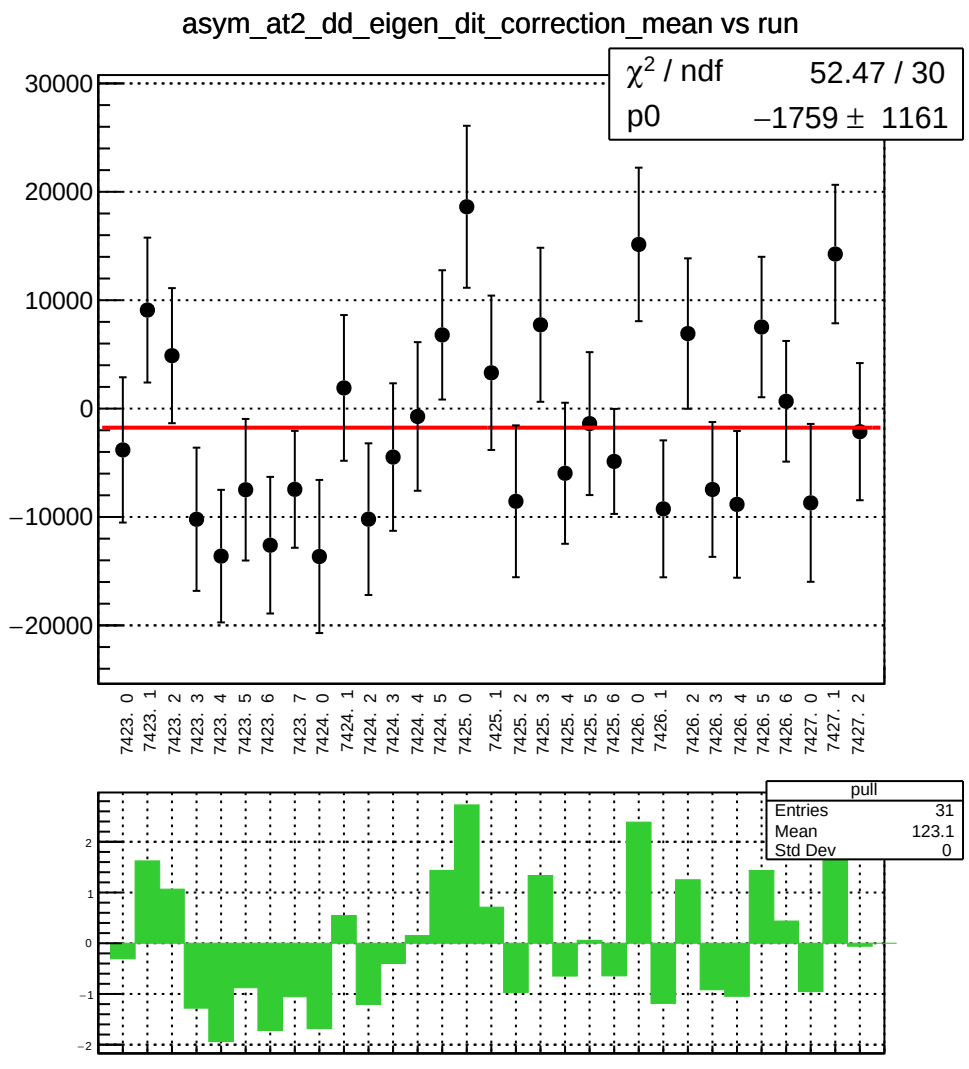

pull1D
Entries 31
Mean 0.02531
Std Dev 1.301
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

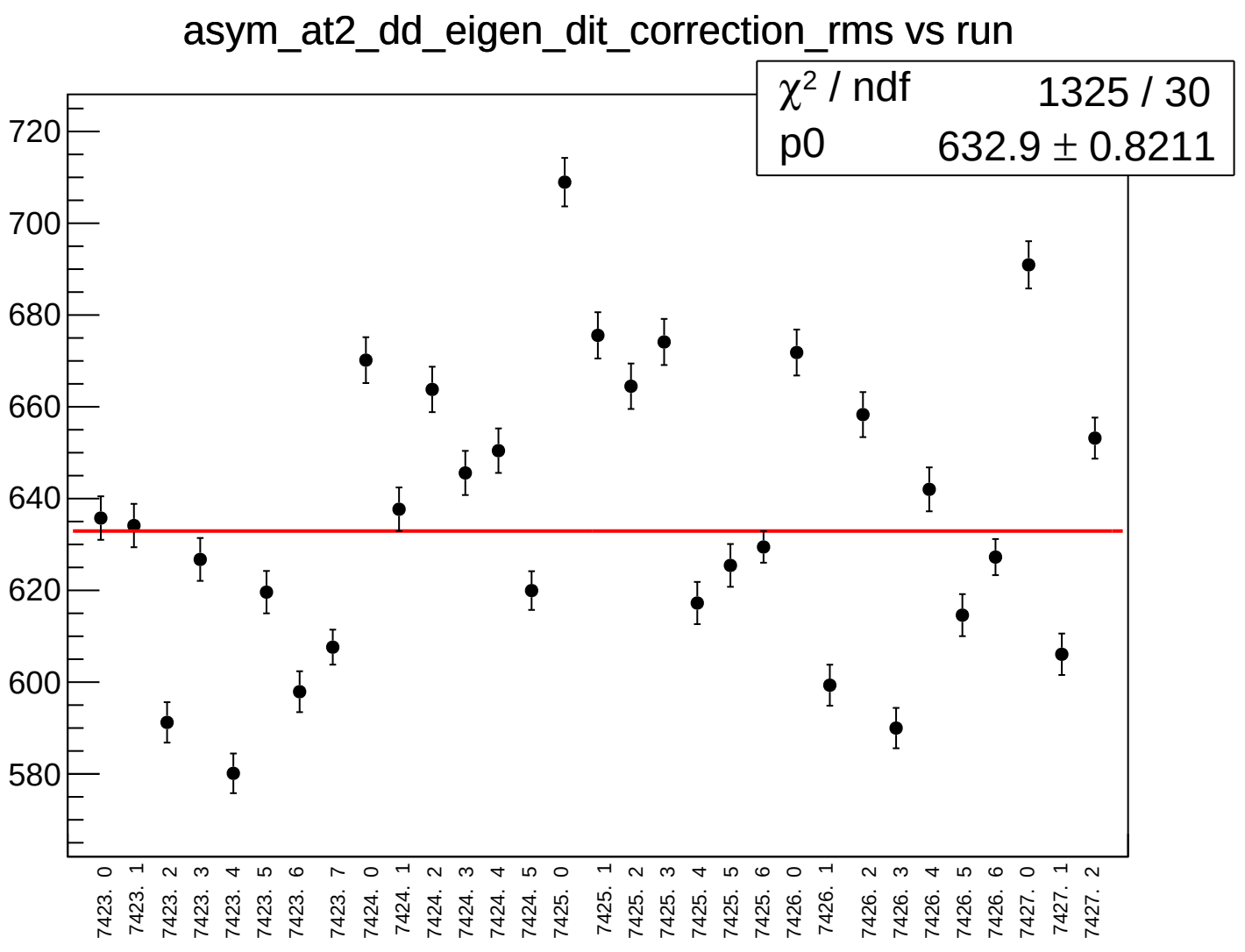

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1325 / 30
p0 632.9 ± 0.8211
720
700
680
660
640
620
600
580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

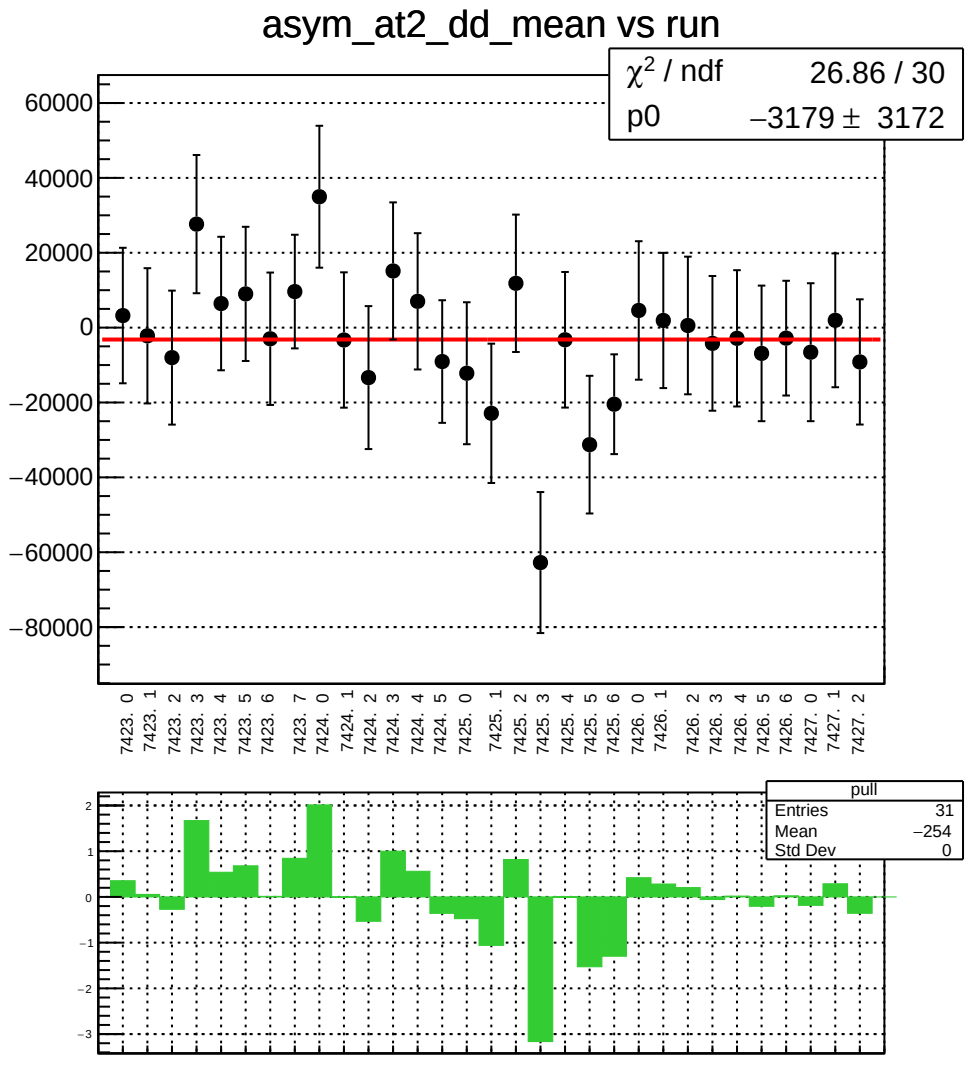

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 29.16 / 30
p0 −4742 ± 2910
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −98.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

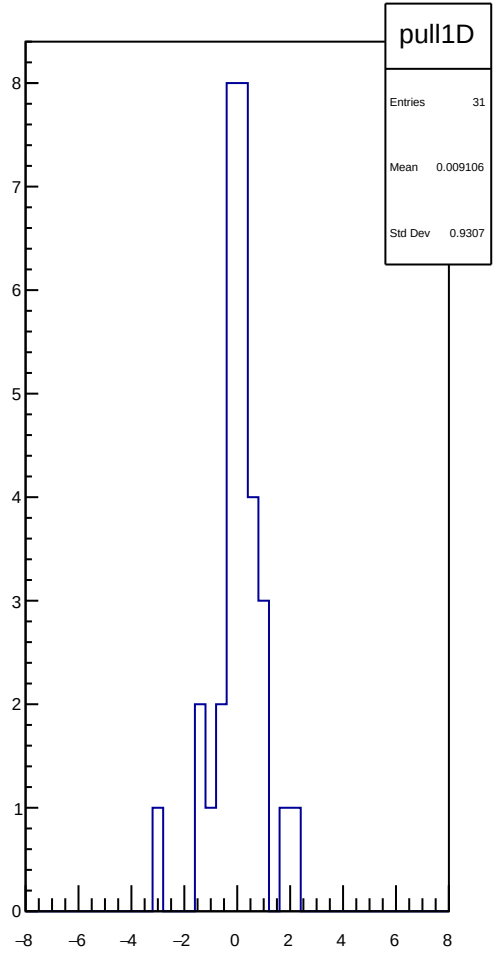

pull1D
Entries 31
Mean 0.01433
Std Dev 0.9697
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

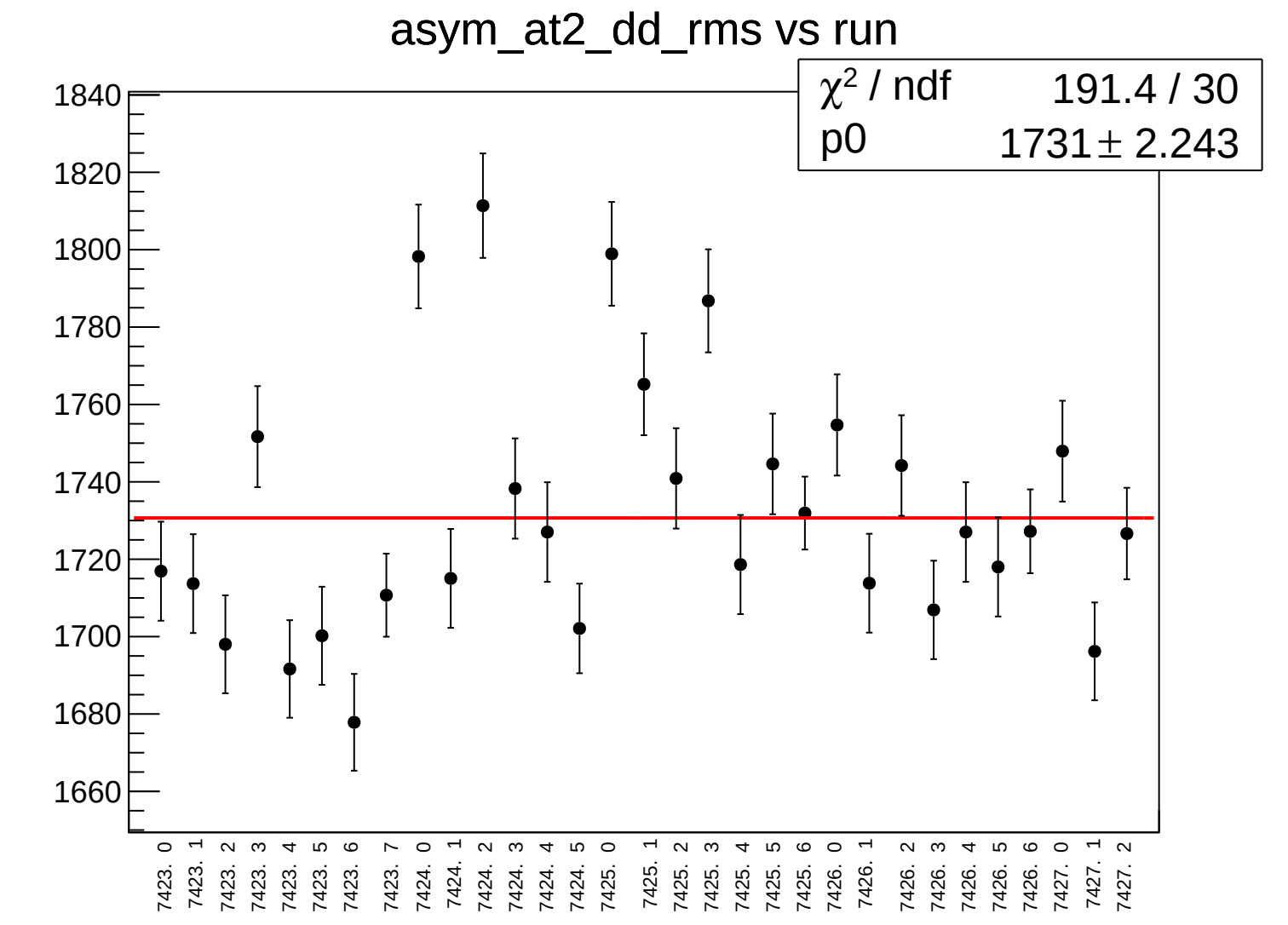

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 79.96 / 30
p0 1588 ± 2.058
1680
1660
1640
1620
1600
1580
1560
1540
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

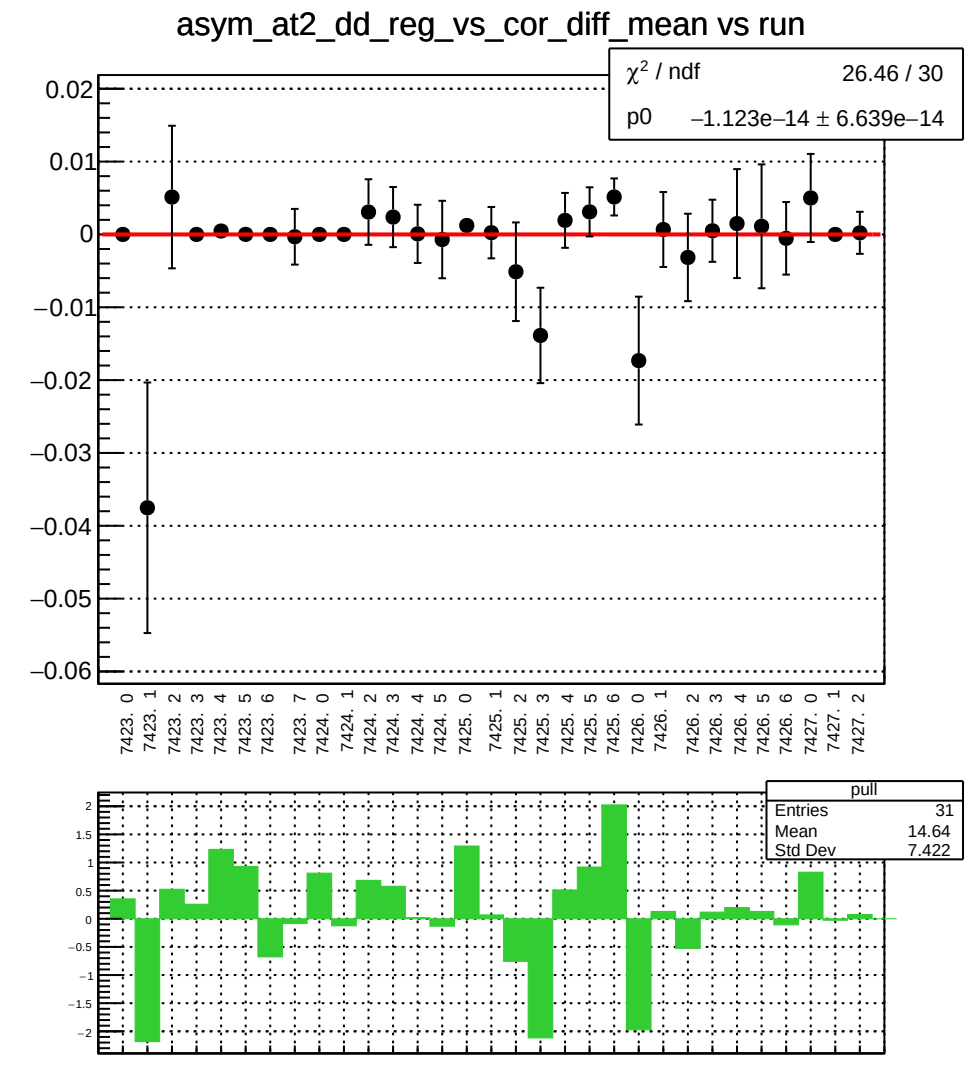

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 52.47 / 30
p0 −1759 ± 1161
30000
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 123.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.02531
Std Dev 1.301
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

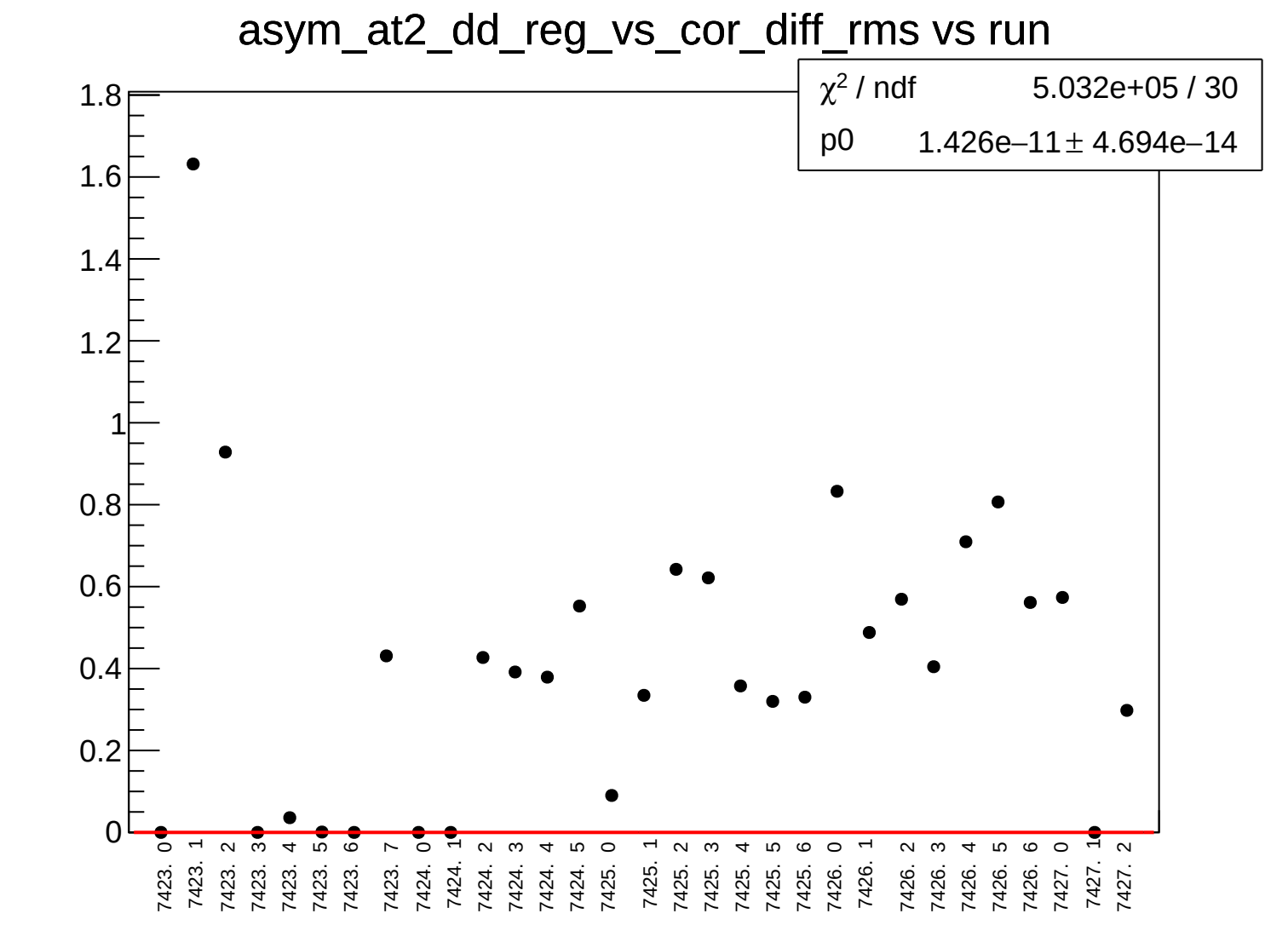

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1325 / 30
p0 632.9 ± 0.8211
720
700
680
660
640
620
600
580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

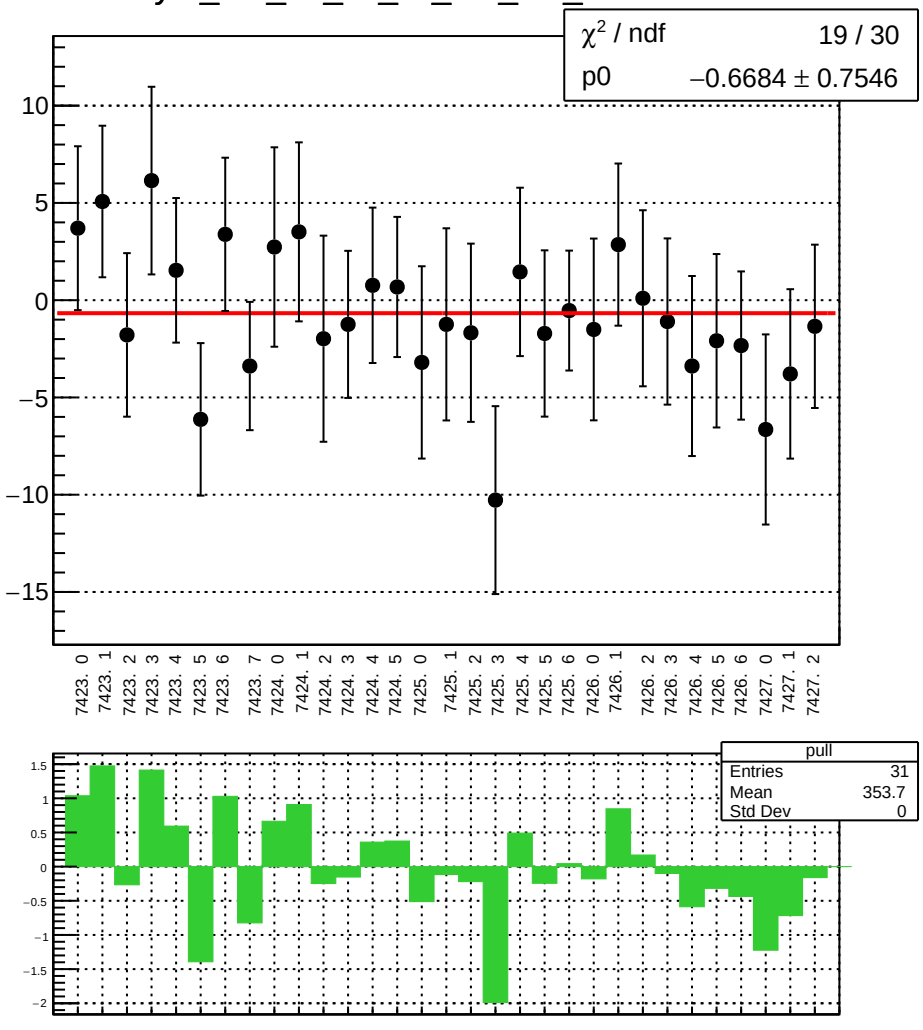

asym_at2_dd_mean vs run
χ² / ndf 26.86 / 30
p0 −3179 ± 3172
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −254
Std Dev 0
2
1
0
−1
−2
−3

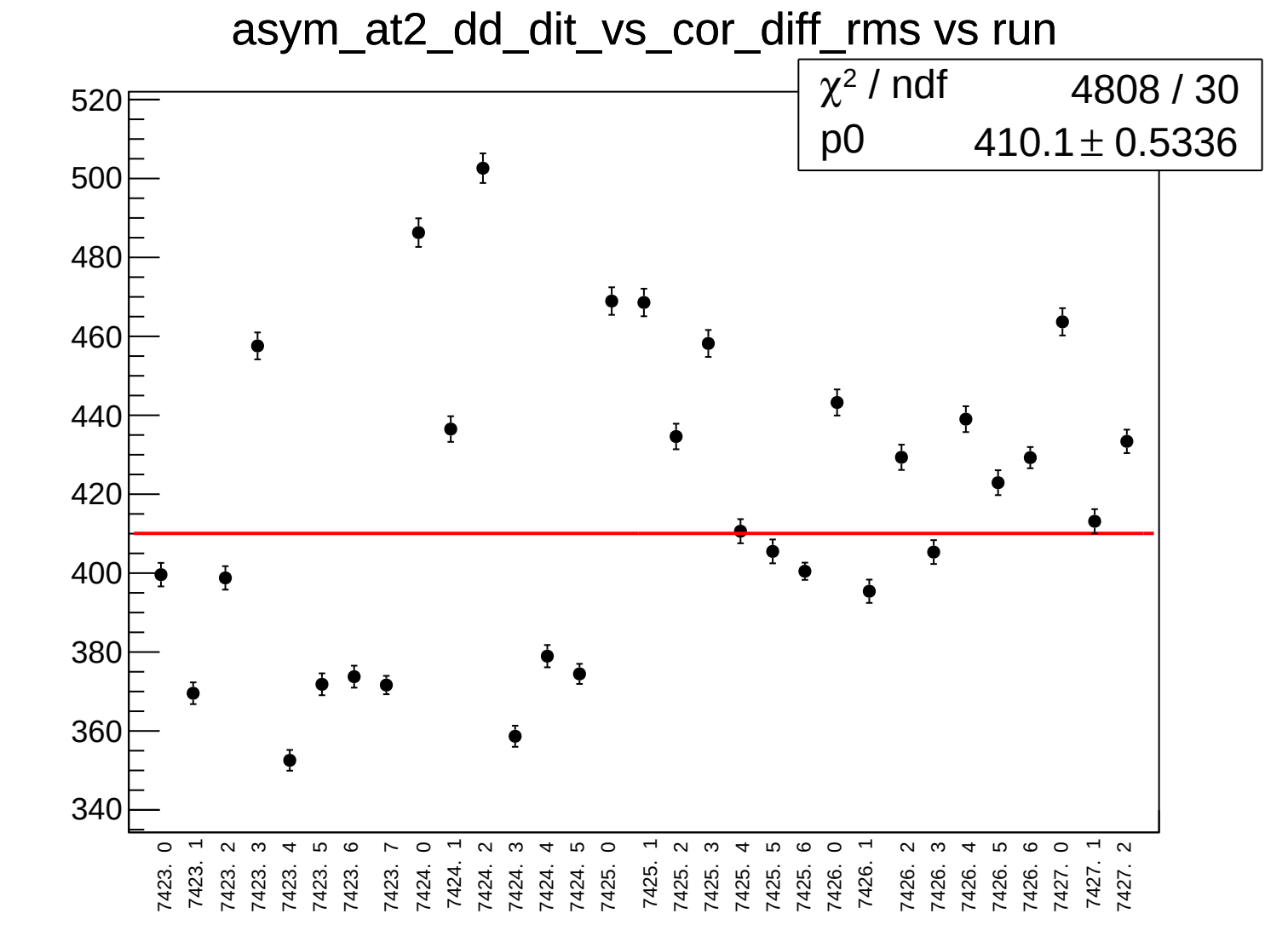

pull1D
Entries 31
Mean 0.009106
Std Dev 0.9307
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_rms vs run
χ² / ndf 191.4 / 30
p0 1731 ± 2.243
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

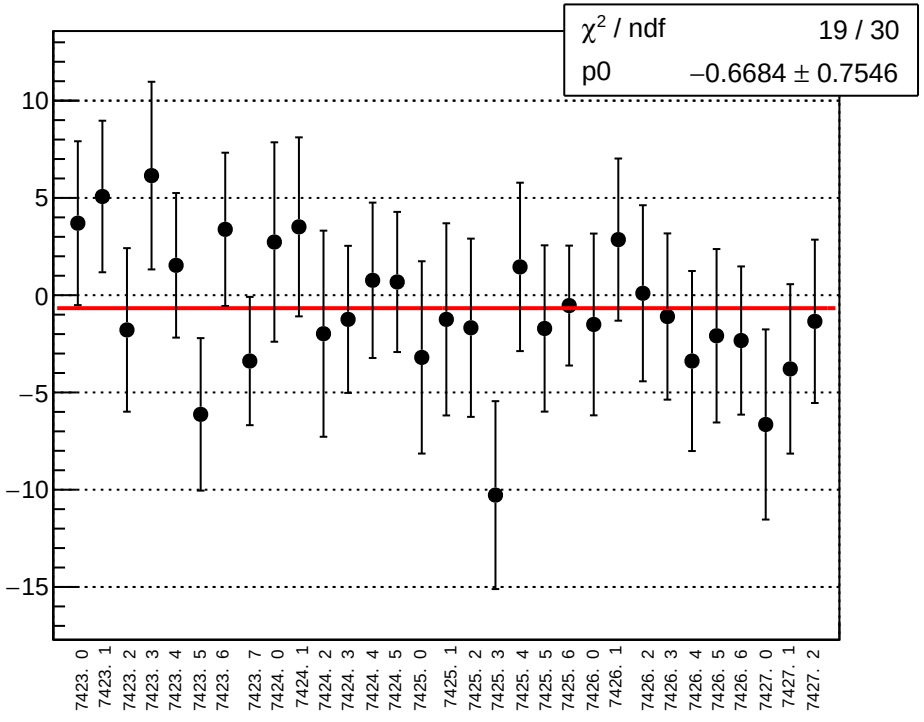

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 26.46 / 30
p0 −1.123e−14 ± 6.639e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.64
Std Dev 7.422
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.09619
Std Dev 0.9189
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

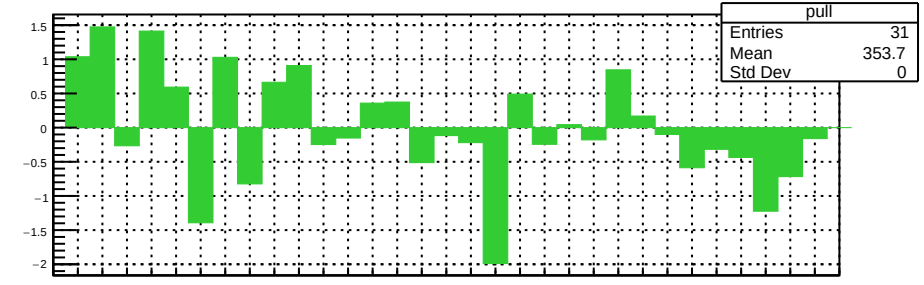

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.032e+05 / 30
p0 1.426e−11 ± 4.694e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

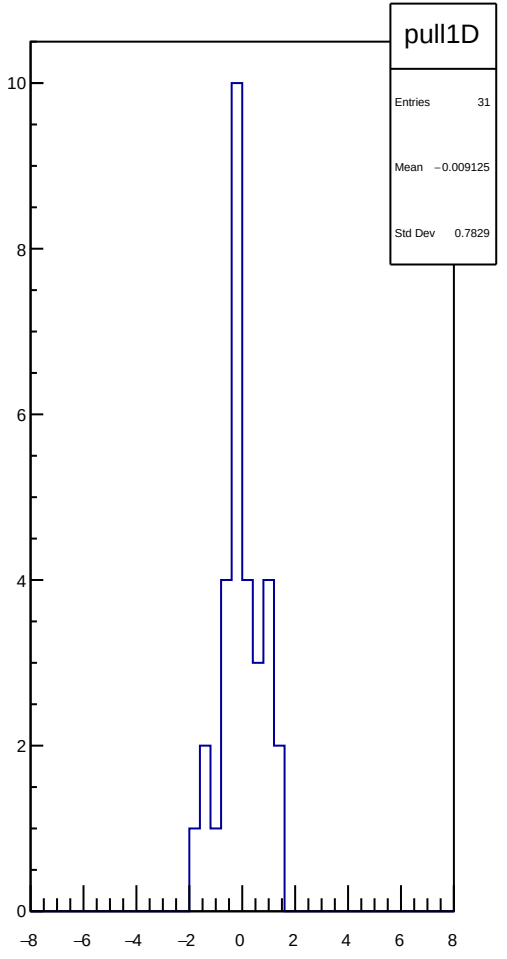

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 19 / 30
p0 −0.6684 ± 0.7546
pull
Entries 31
Mean 353.7
Std Dev 0
pull1D
Entries 31
Mean −0.009125
Std Dev 0.7829

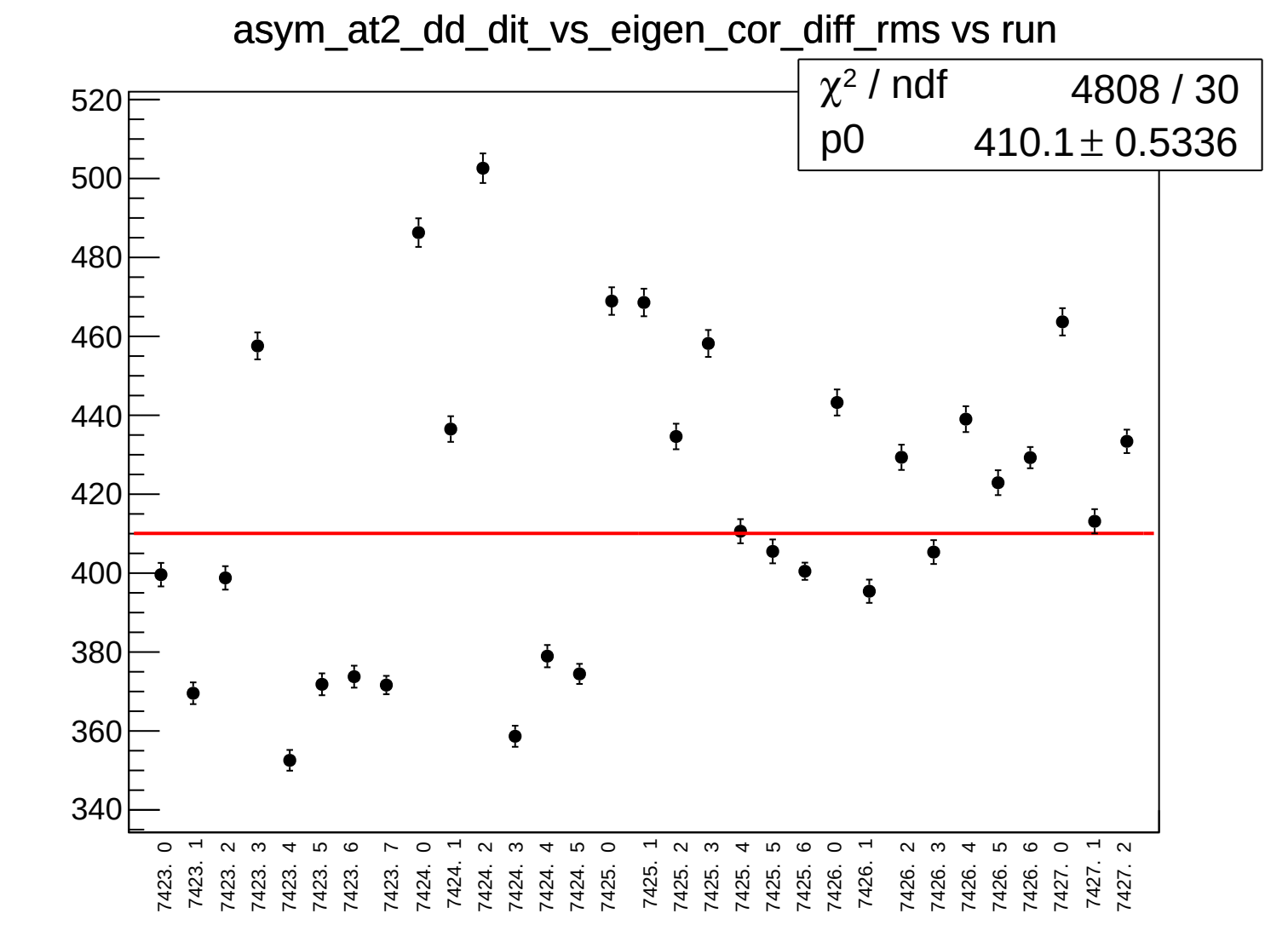

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4808 / 30
p0 410.1 ± 0.5336
520
500
480
460
440
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

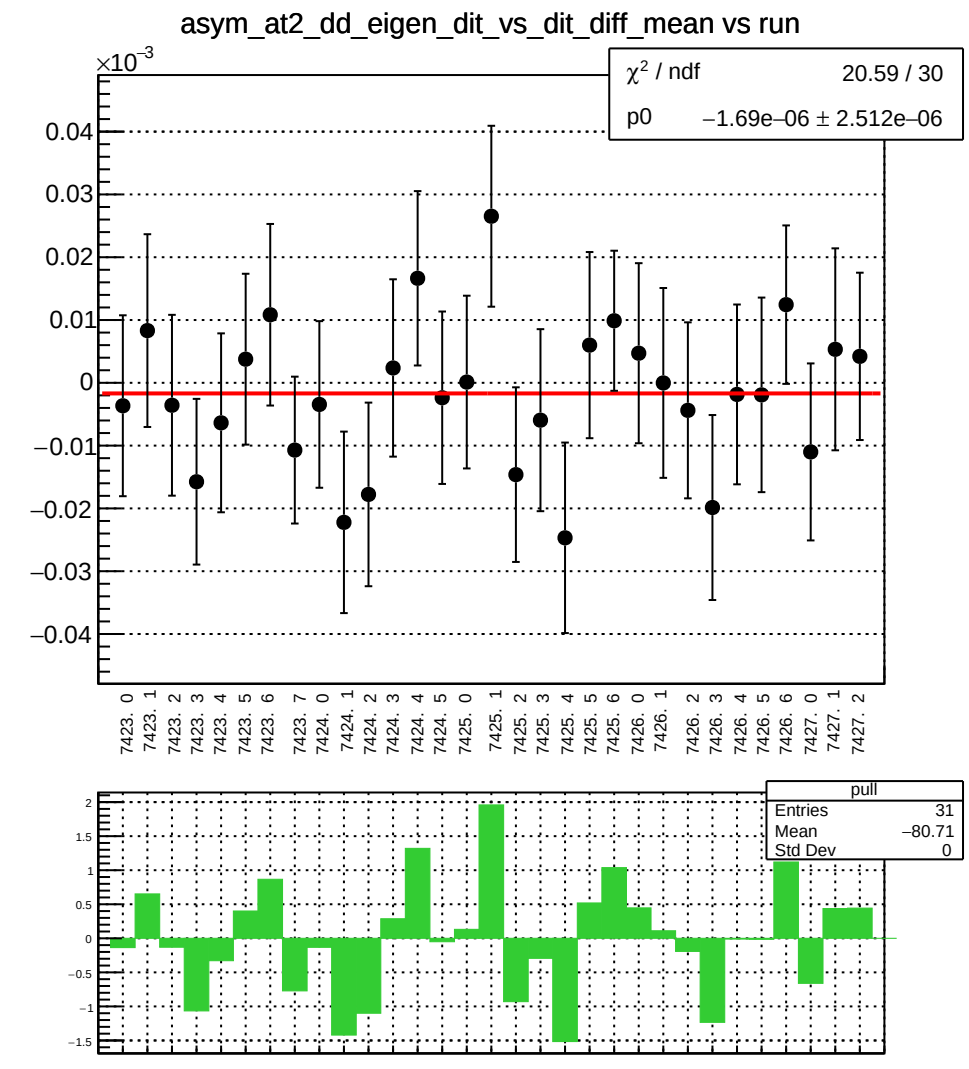
asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run

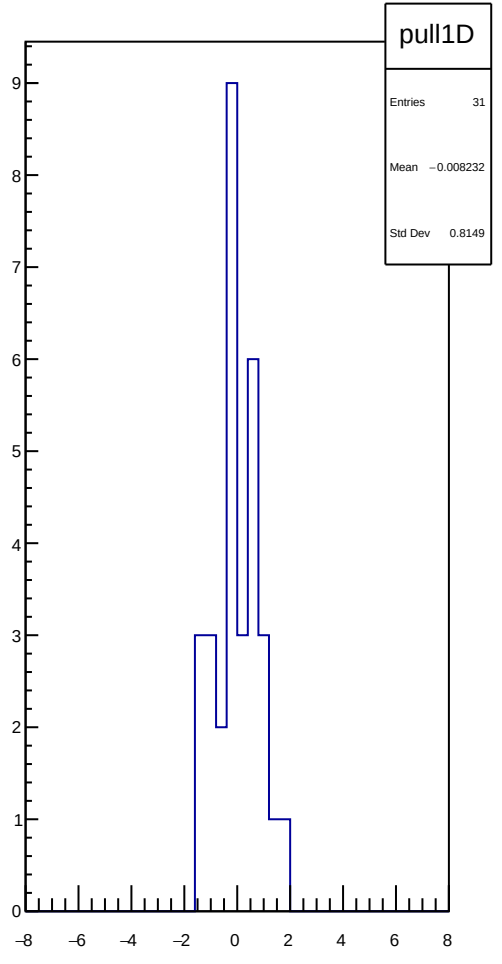


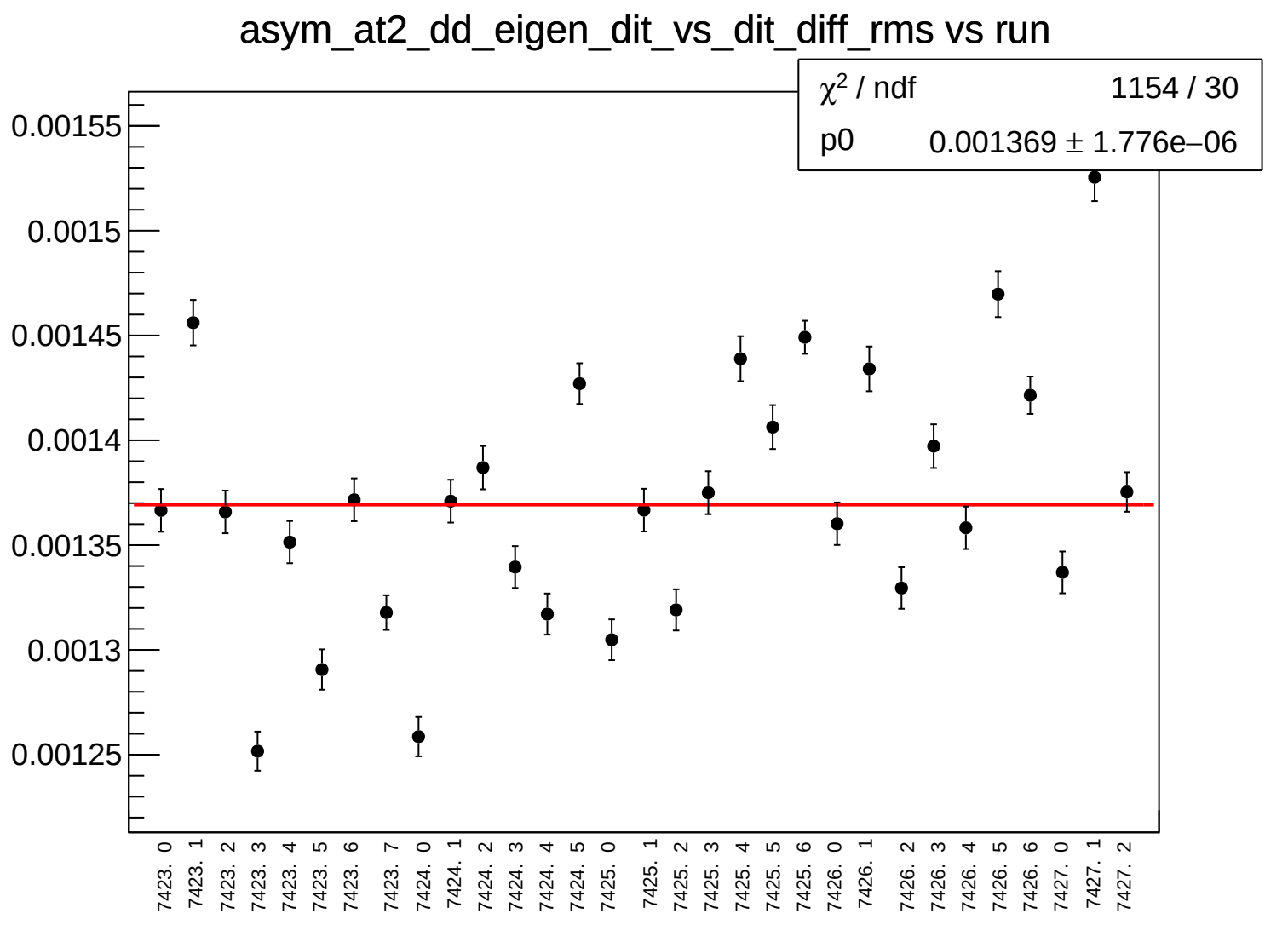




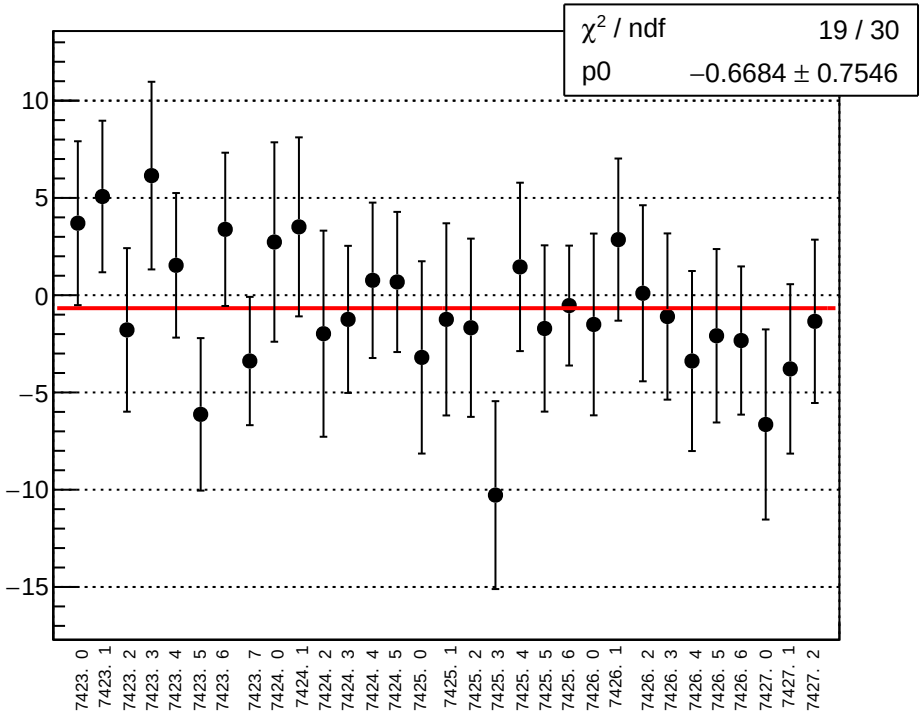

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4808 / 30
p0 410.1 ± 0.5336
520
500
480
460
440
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

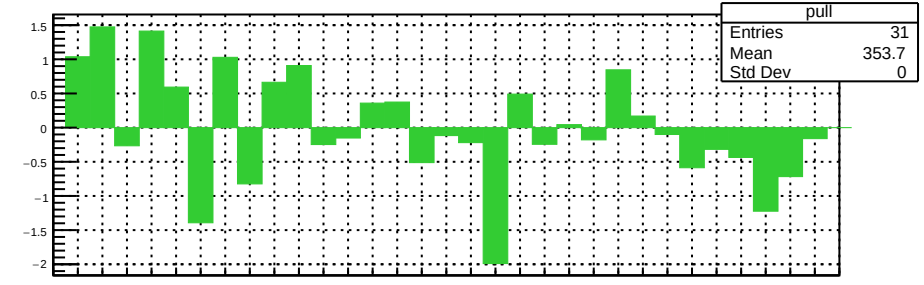

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 20.59 / 30
p0 −1.69e−06 ± 2.512e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −80.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

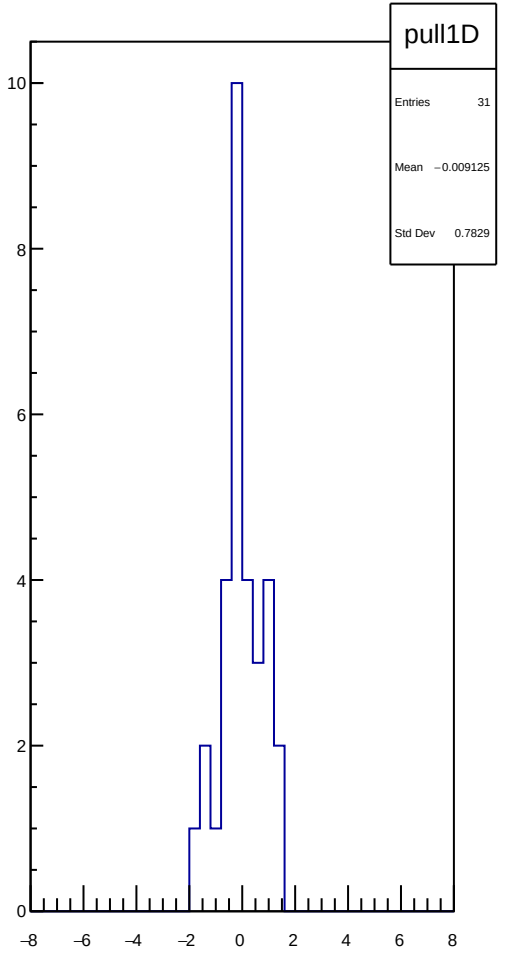

pull1D
Entries 31
Mean −0.008232
Std Dev 0.8149
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

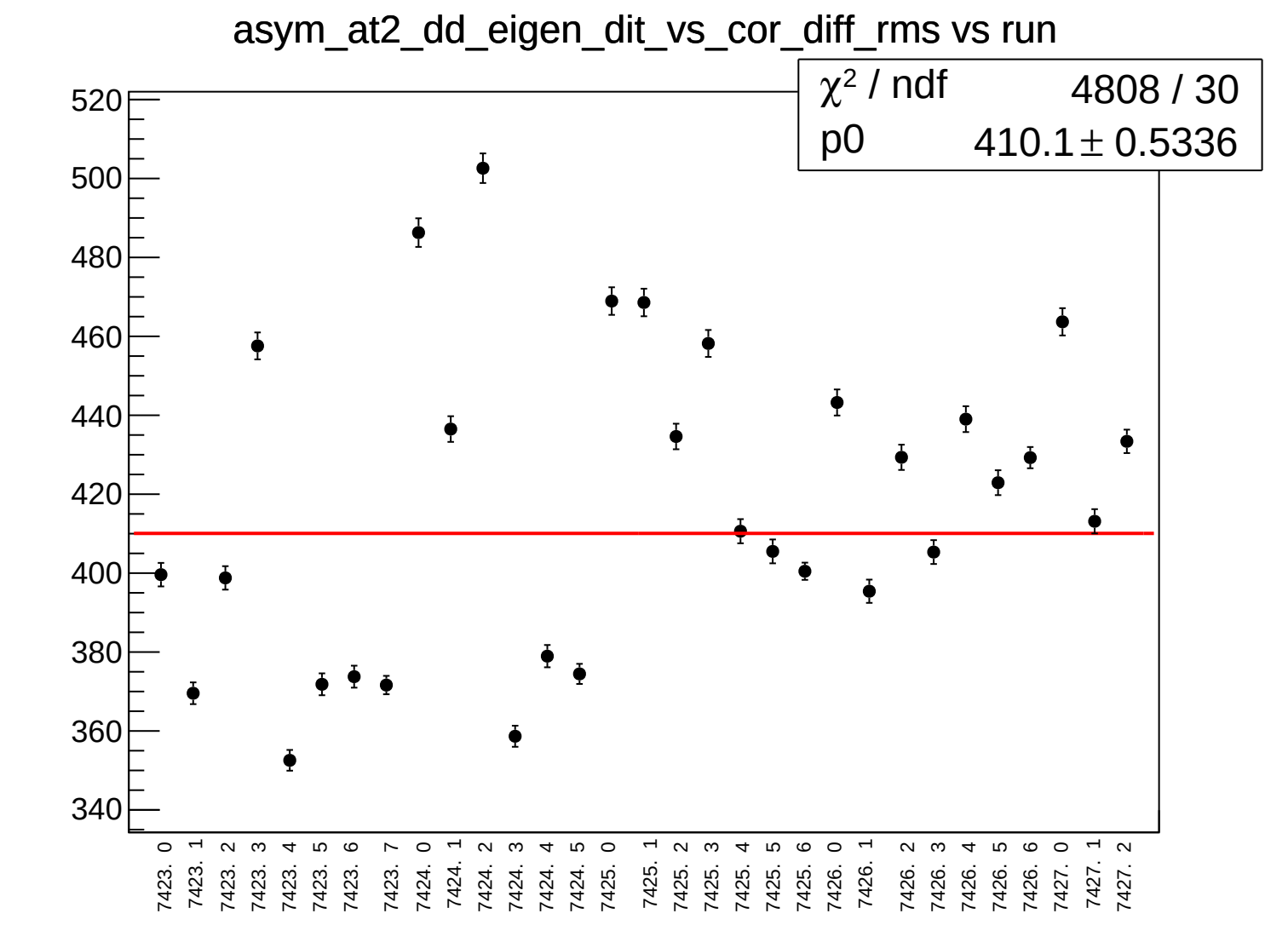

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1154 / 30
p0 0.001369 ± 1.776e−06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run

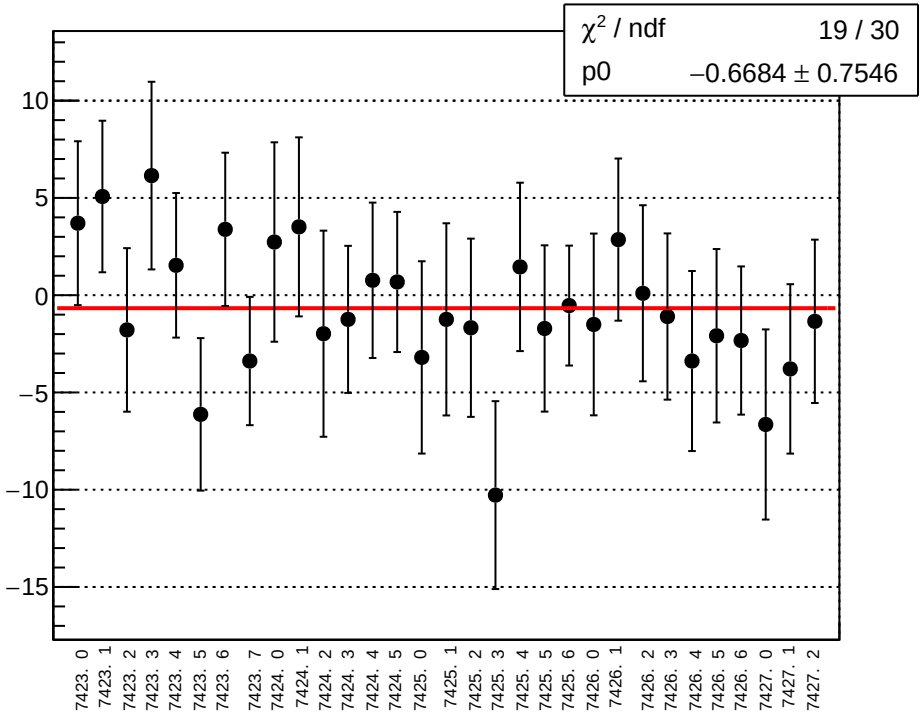


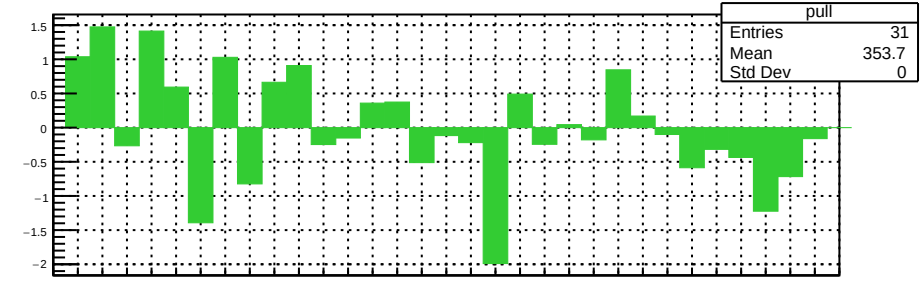


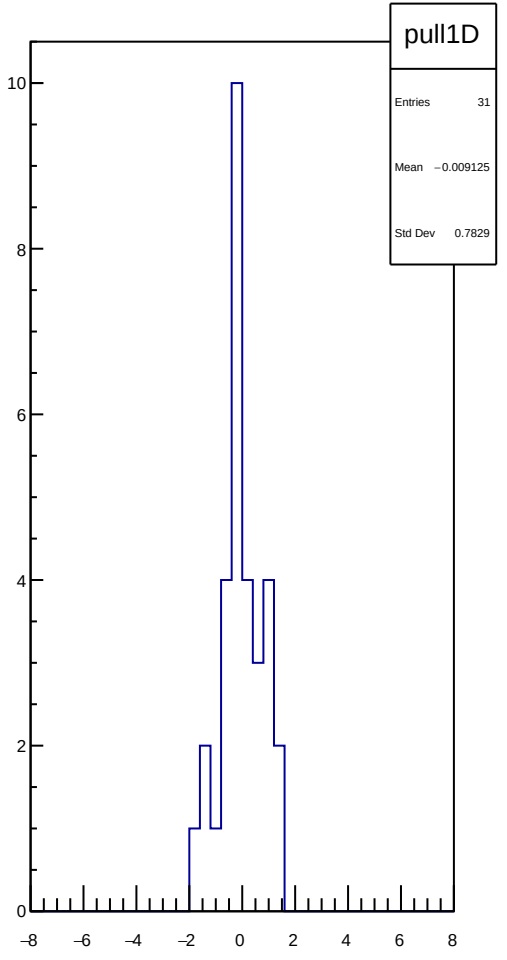


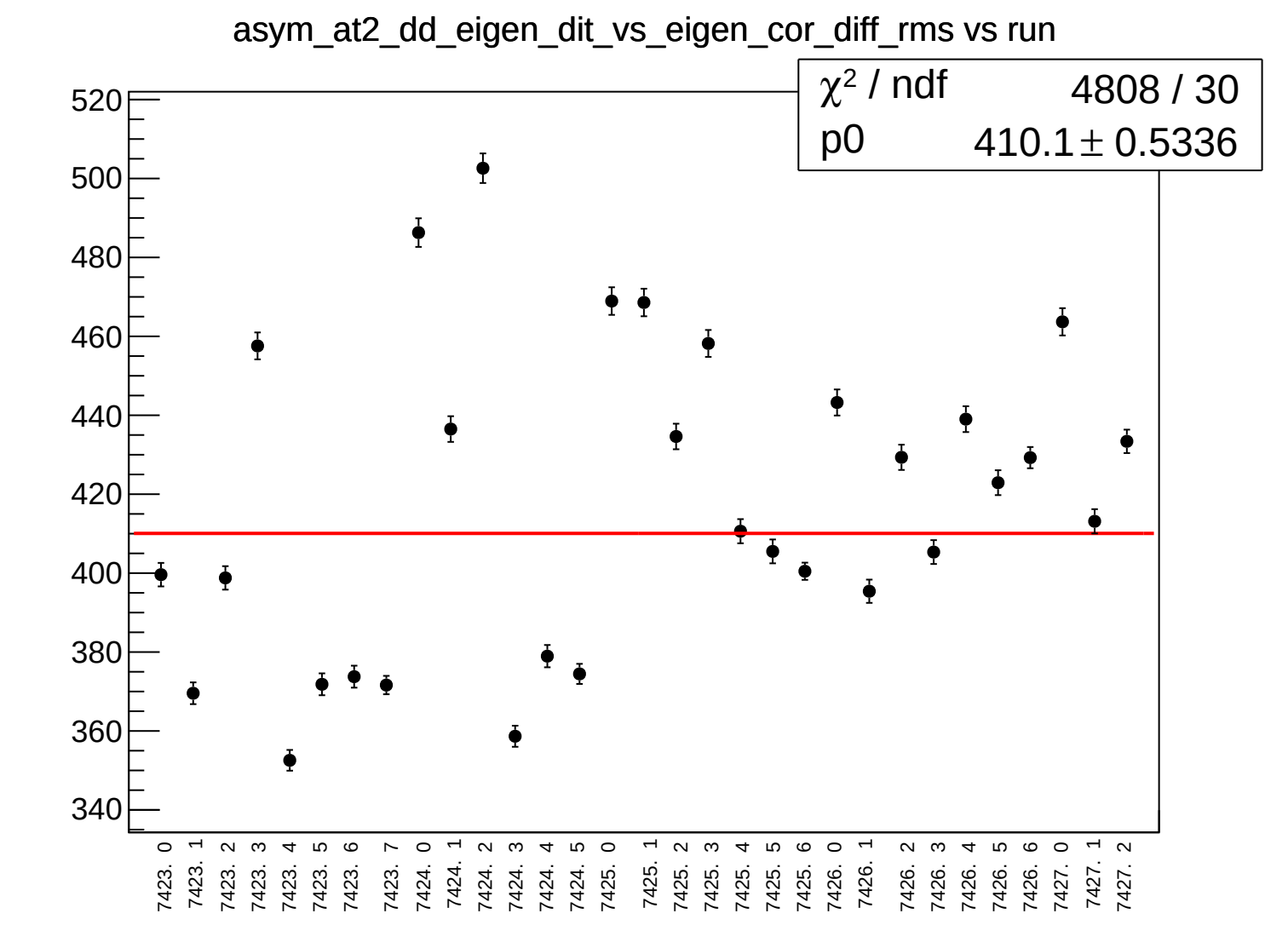

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4808 / 30
p0 410.1 ± 0.5336
520
500
480
460
440
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

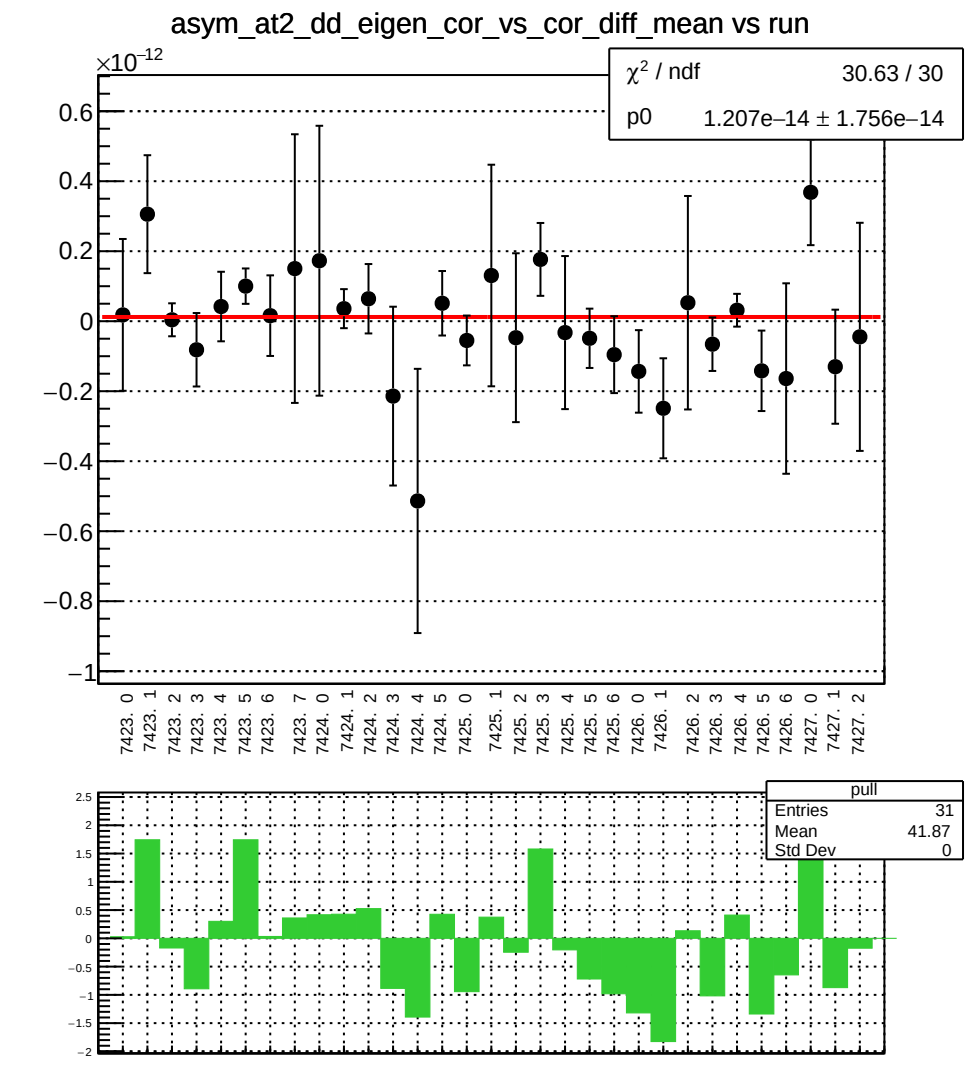
asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

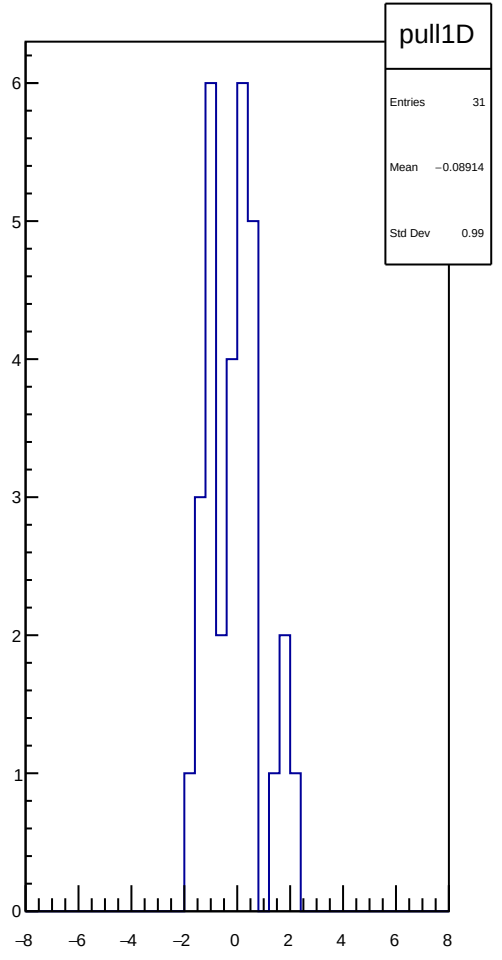


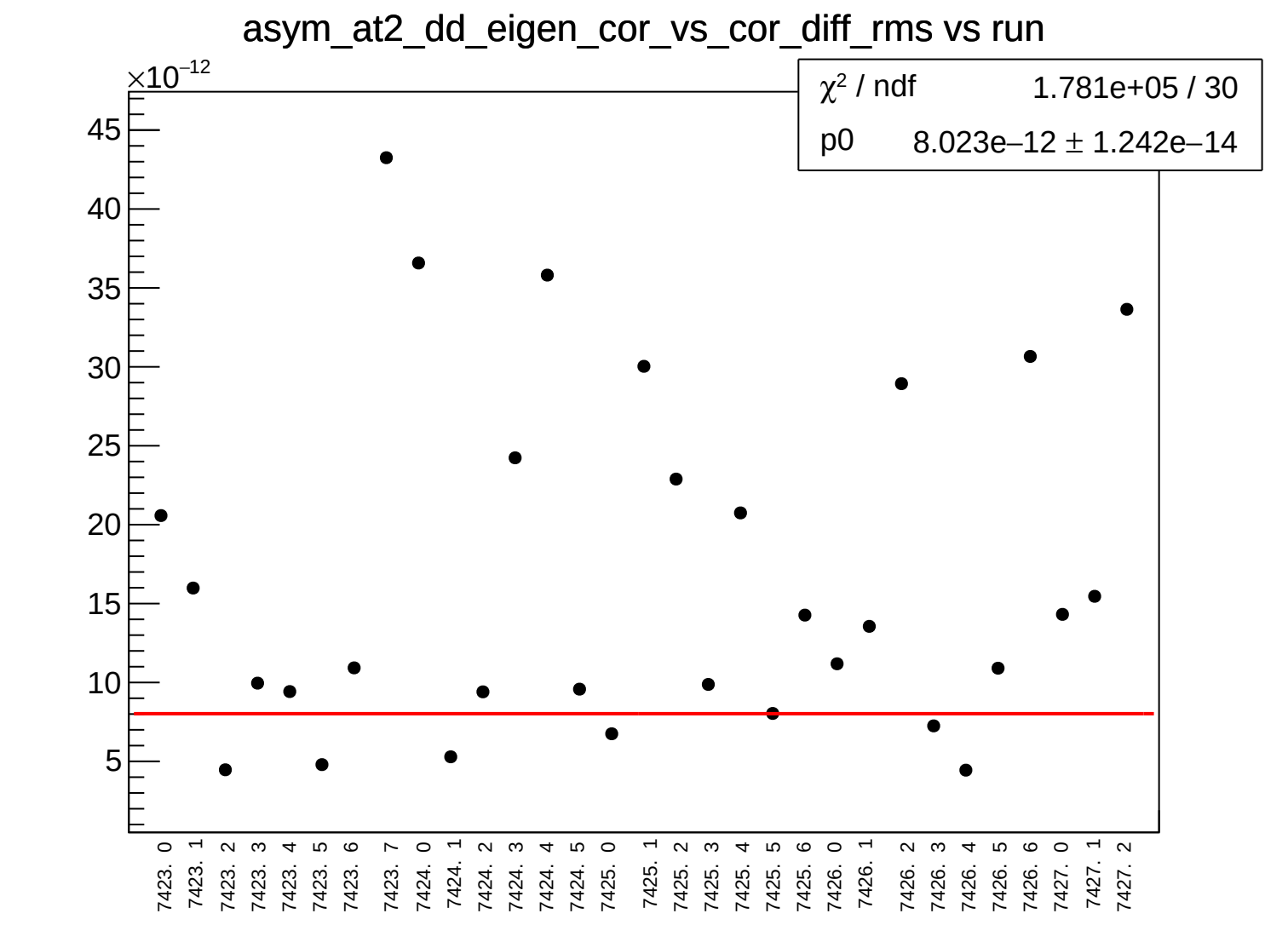


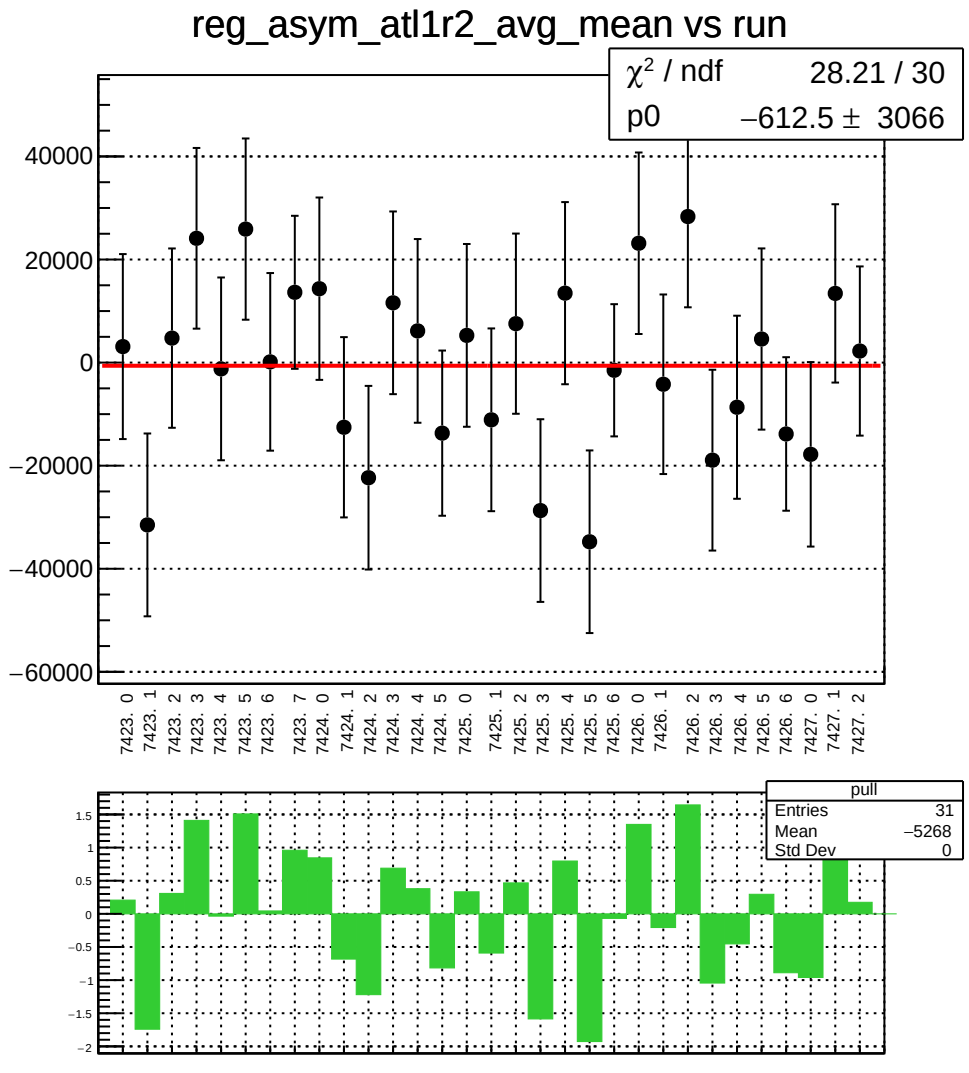


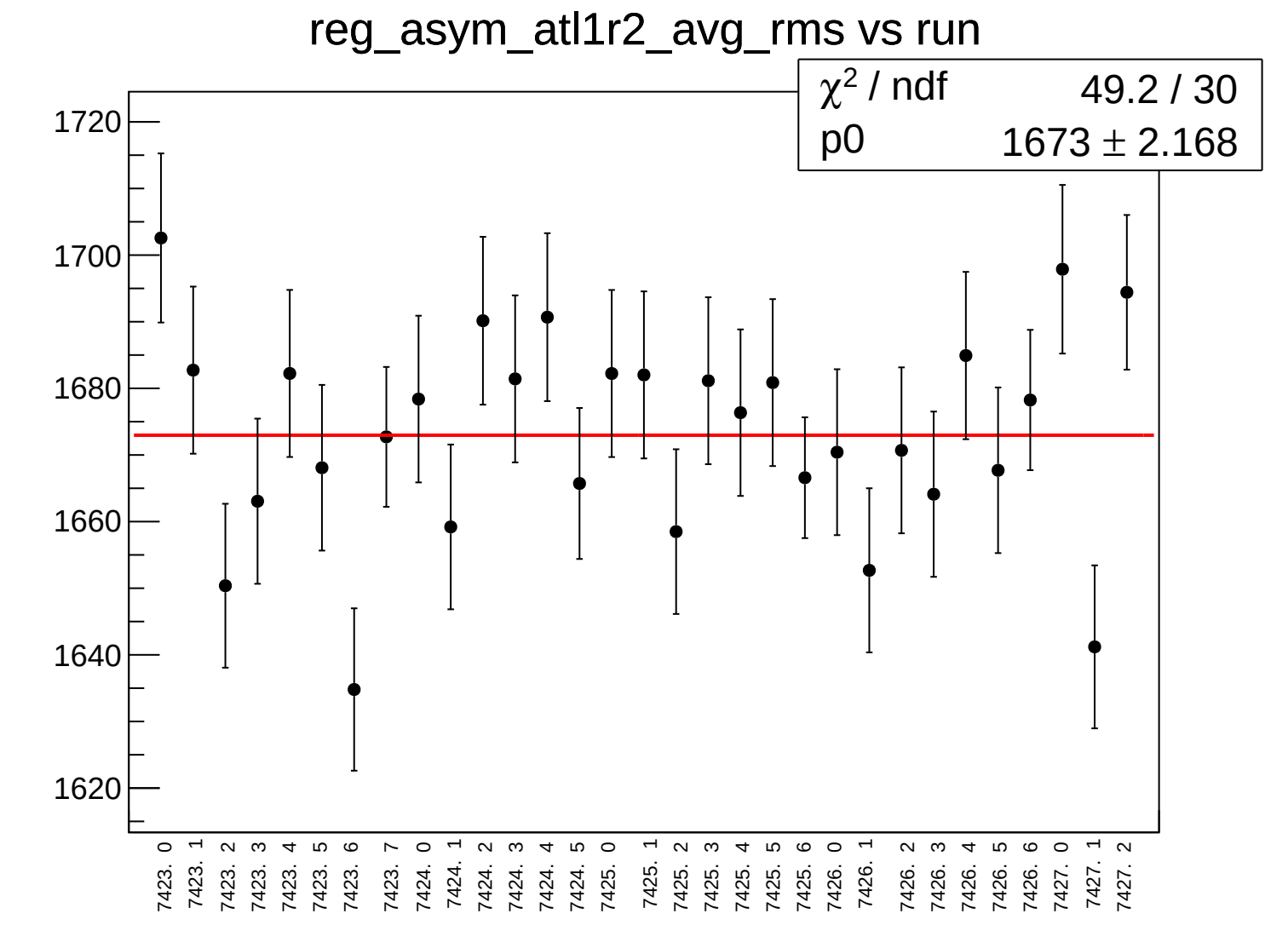

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4808 / 30
p0 410.1 ± 0.5336
520
500
480
460
440
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

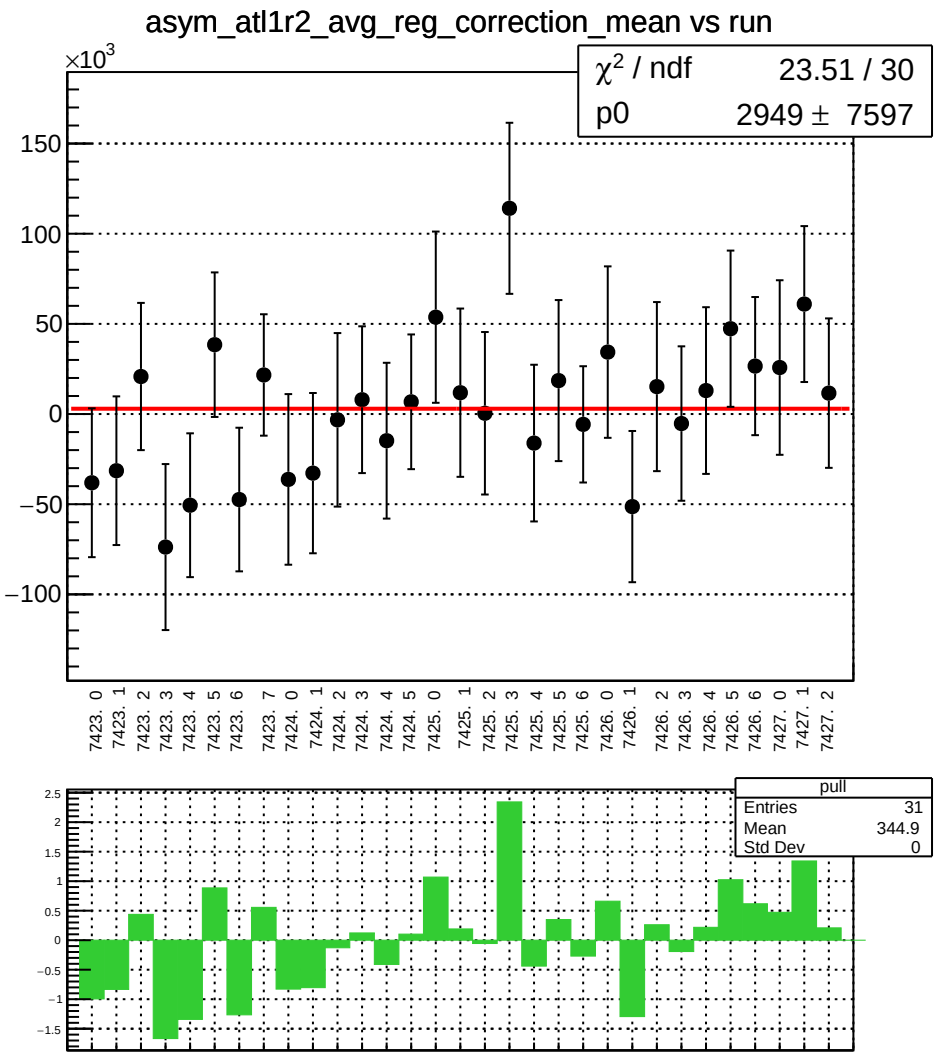

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.63 / 30
p0 1.207e−14 ± 1.756e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 41.87
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

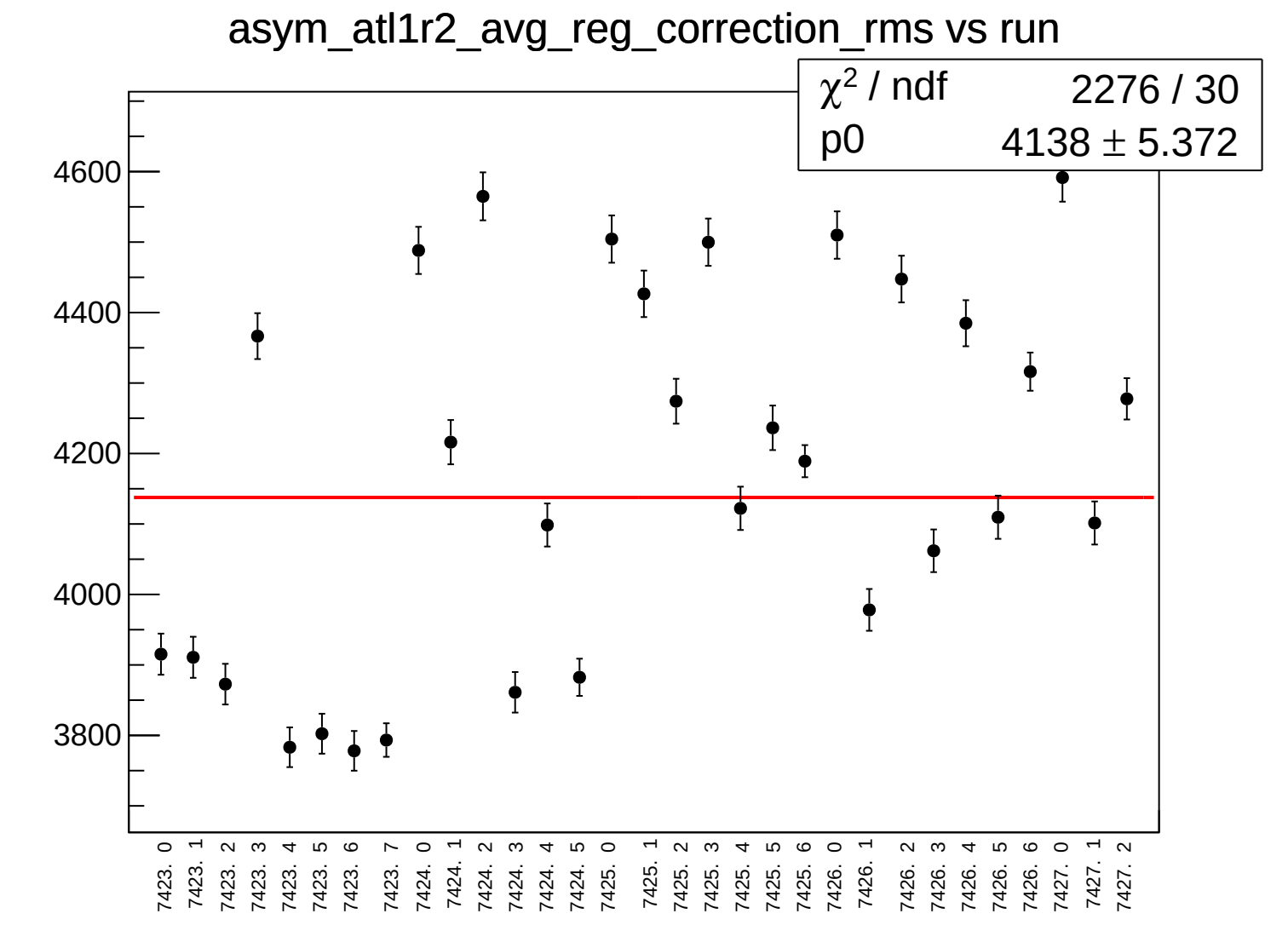

pull1D
Entries 31
Mean −0.08914
Std Dev 0.99
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

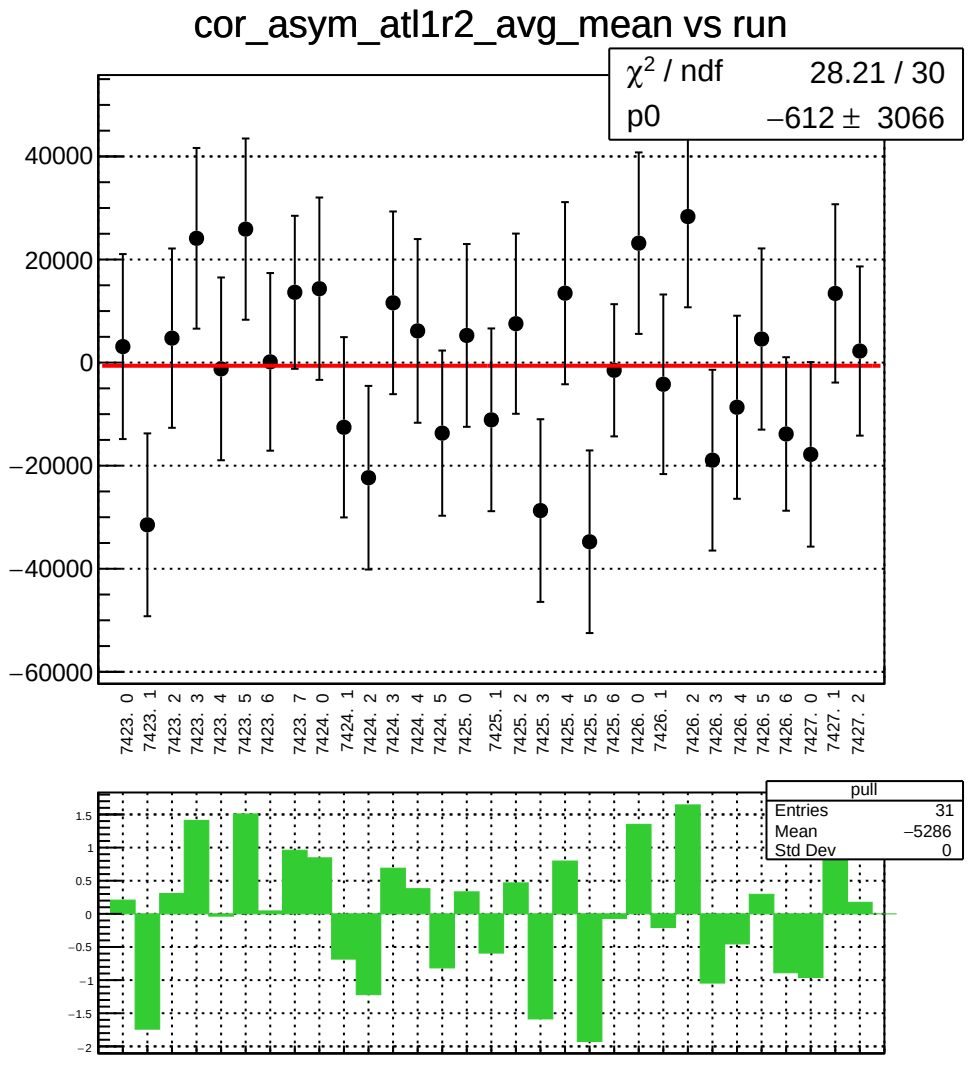

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.781e+05 / 30
p0 8.023e−12 ± 1.242e−14
45
40
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

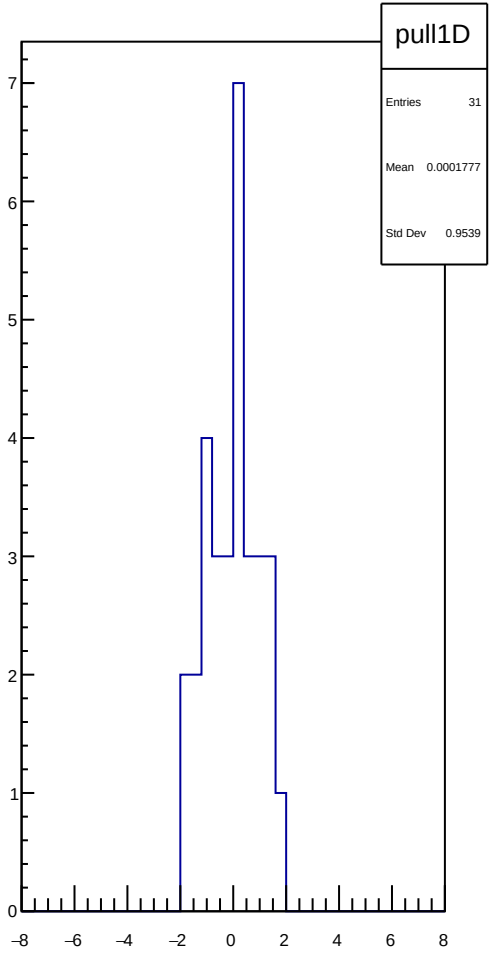

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 28.21 / 30
p0 −612.5 ± 3066
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −5268
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.0001782
Std Dev 0.9539
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

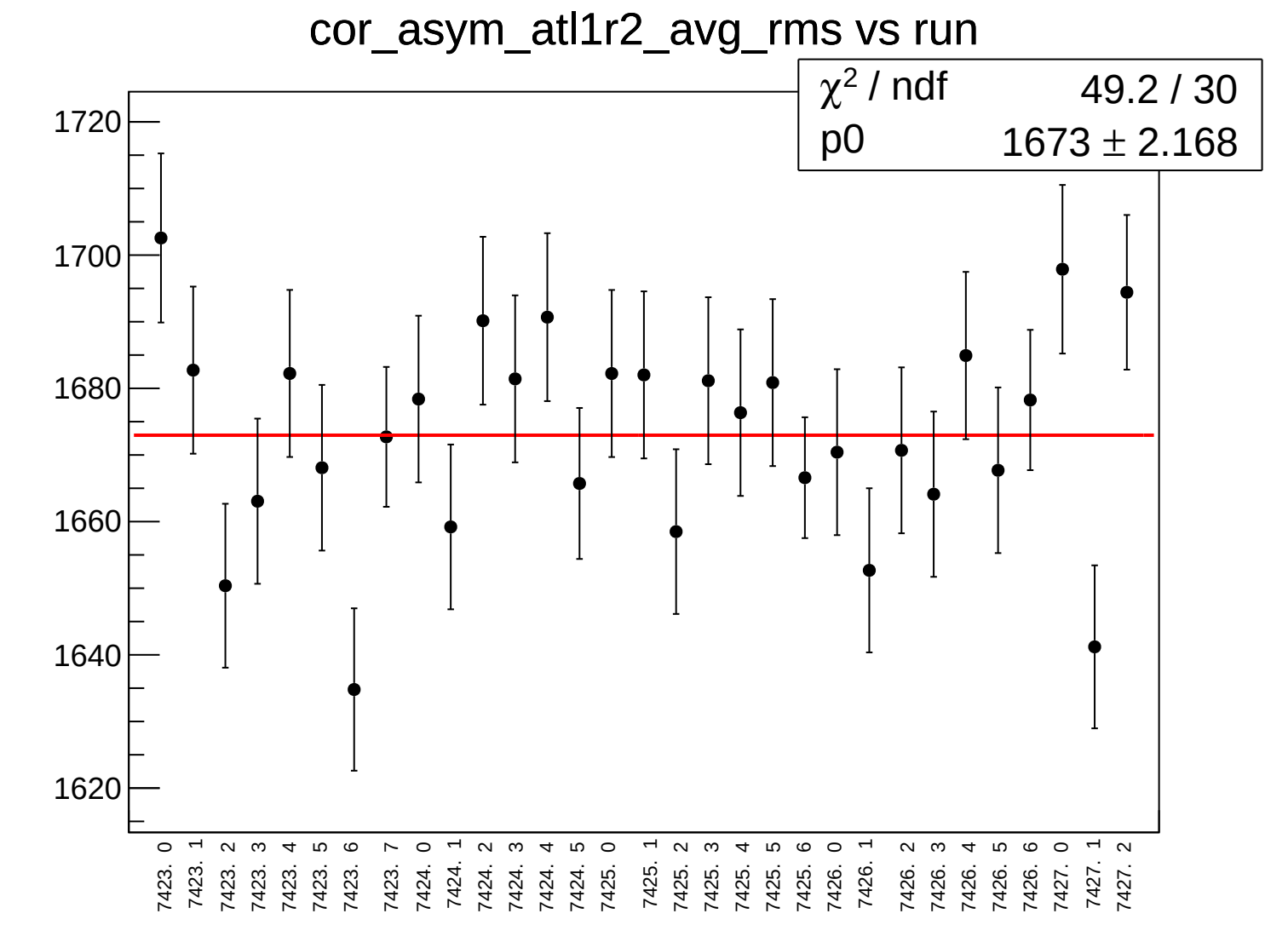

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 49.2 / 30
p0 1673 ± 2.168
1720
1700
1680
1660
1640
1620
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

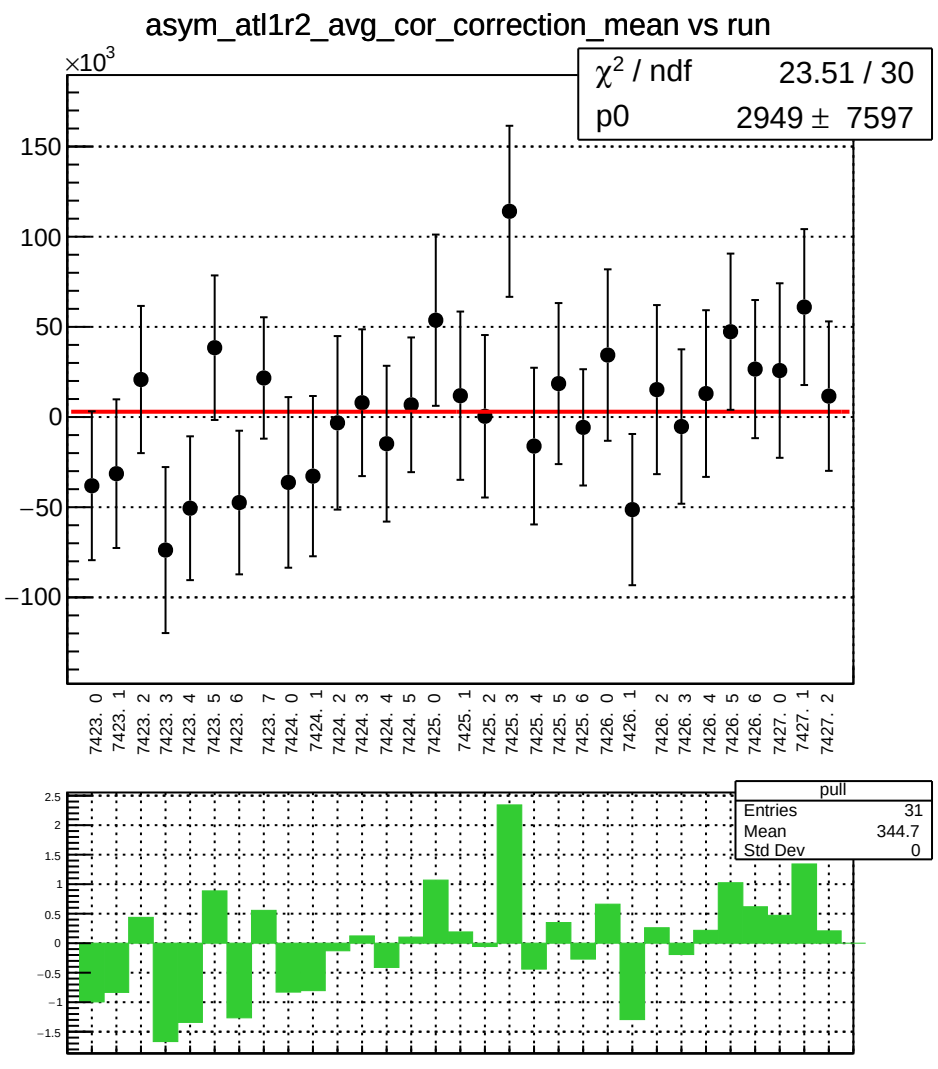

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 23.51 / 30
p0 2949 ± 7597
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 344.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01097
Std Dev 0.8709
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

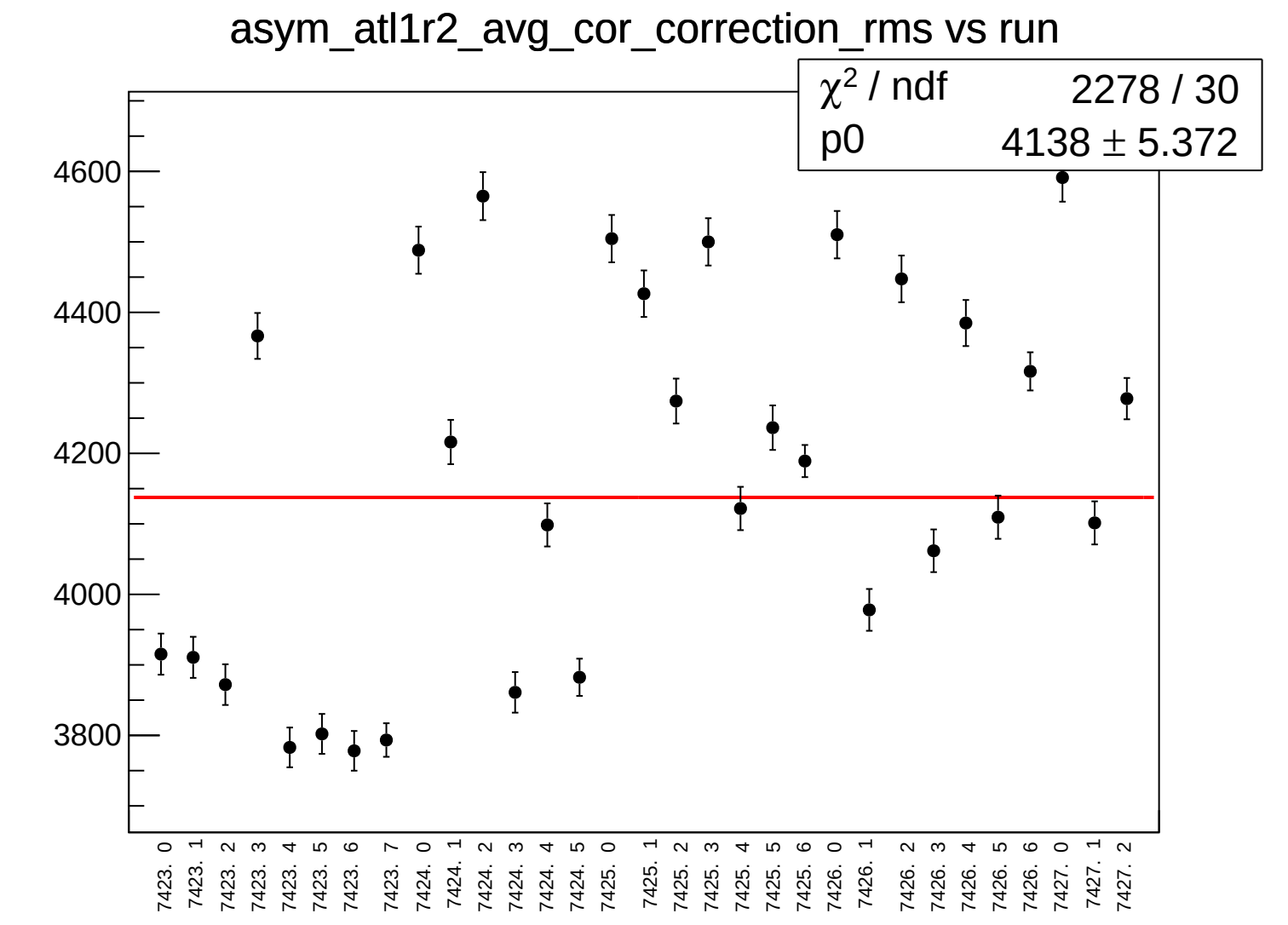

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 2276 / 30
p0 4138 ± 5.372
4600
4400
4200
4000
3800
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

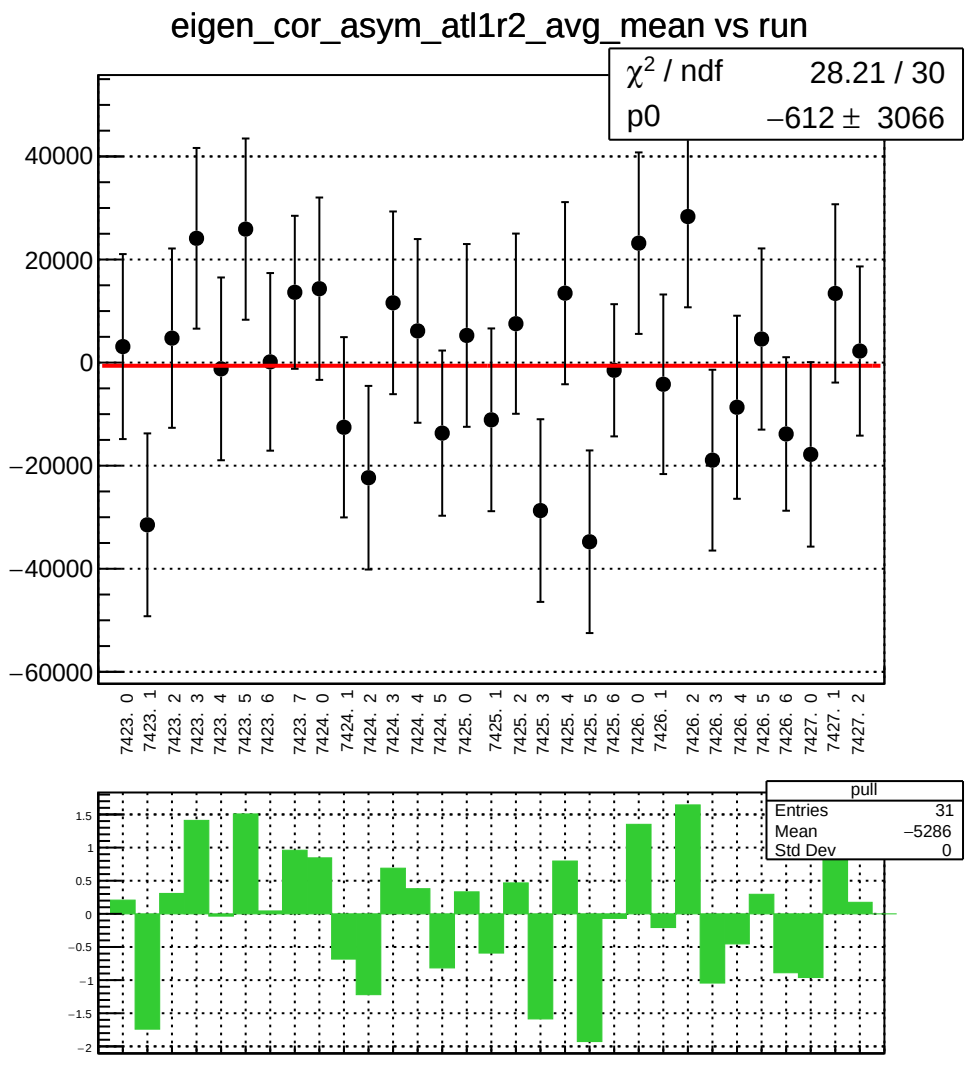

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 28.21 / 30
p0 −612 ± 3066
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −5286
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

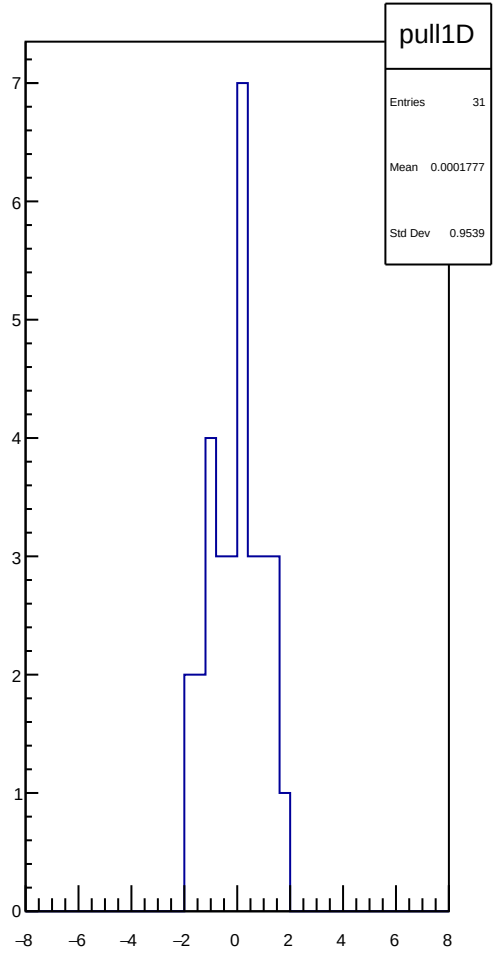

pull1D
Entries 31
Mean 0.0001777
Std Dev 0.9539
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

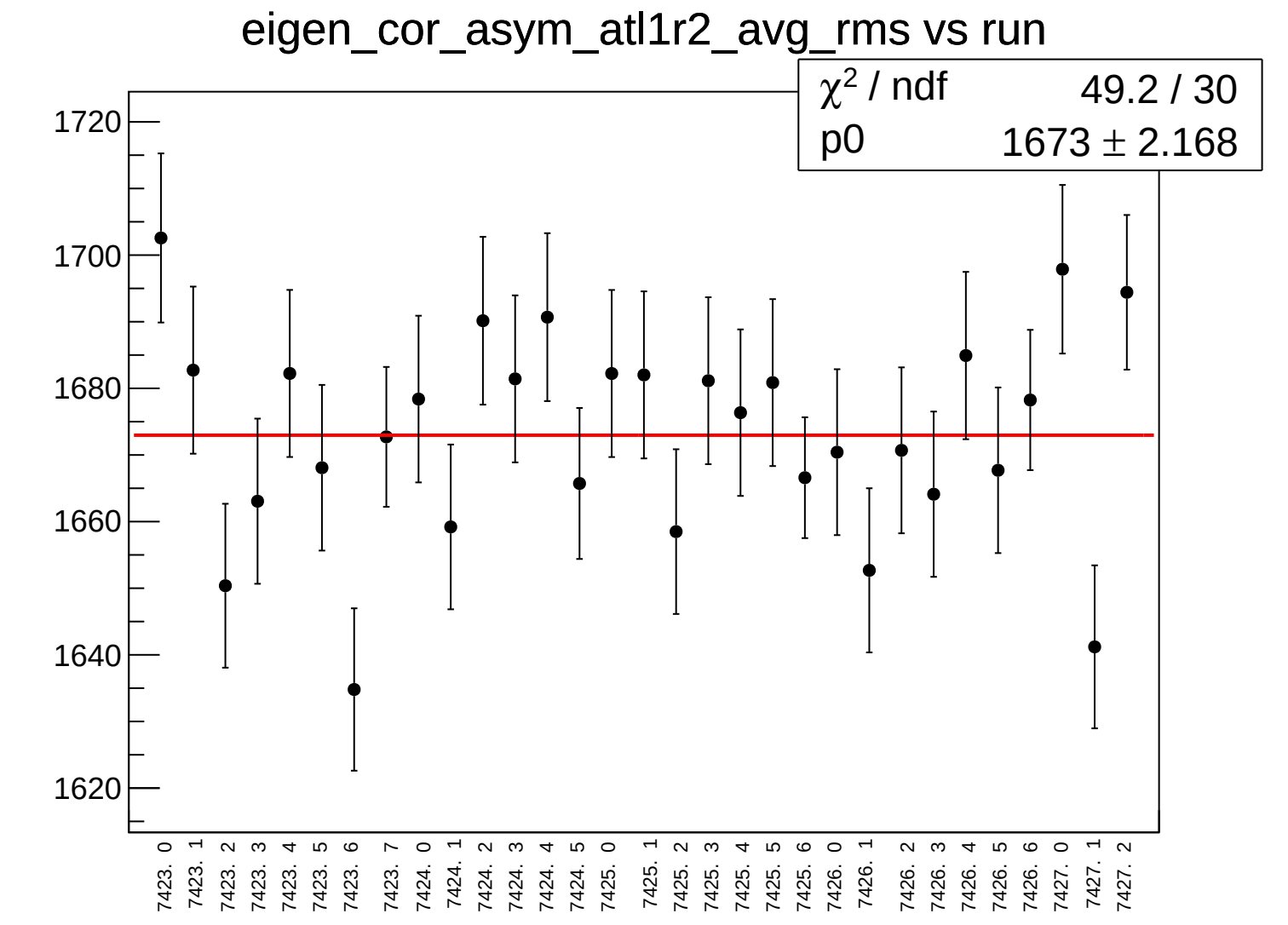

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 49.2 / 30
p0 1673 ± 2.168
1720
1700
1680
1660
1640
1620
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

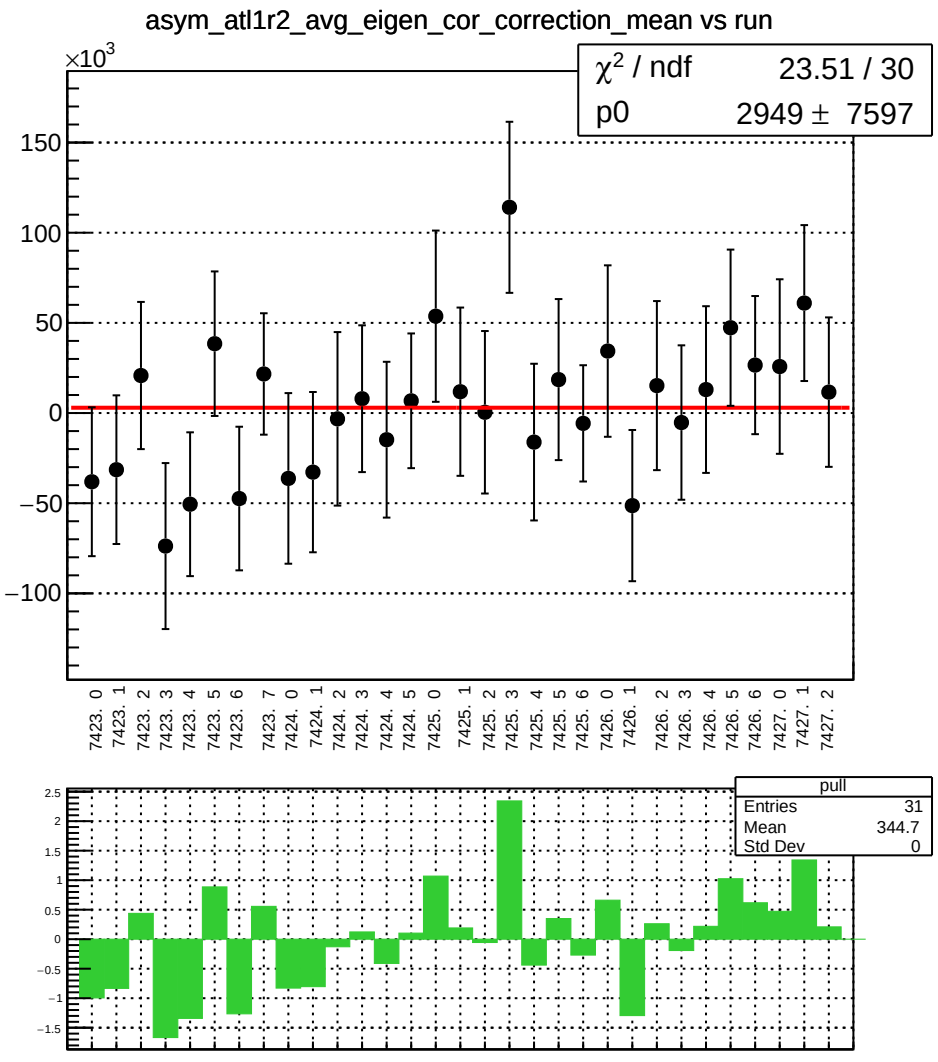

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 23.51 / 30
p0 2949 ± 7597
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 344.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01097
Std Dev 0.8708
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

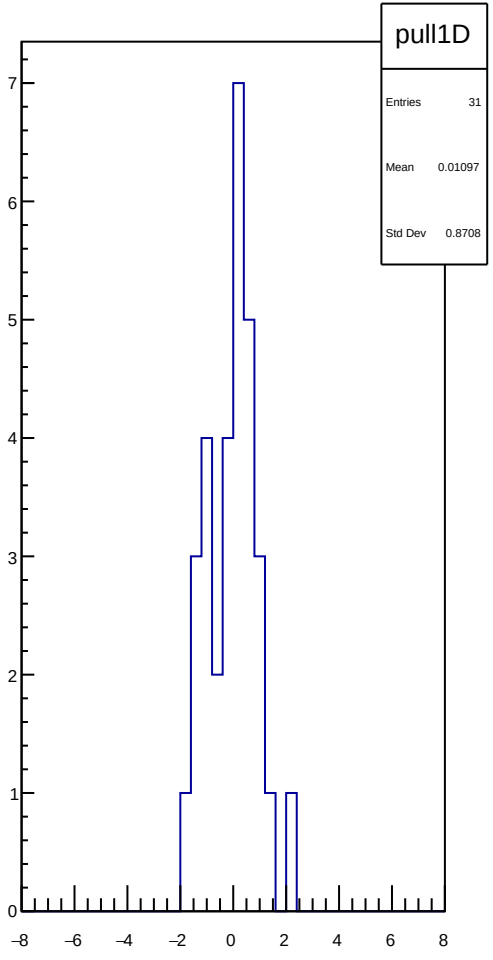

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 2278 / 30
p0 4138 ± 5.372
4600
4400
4200
4000
3800
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

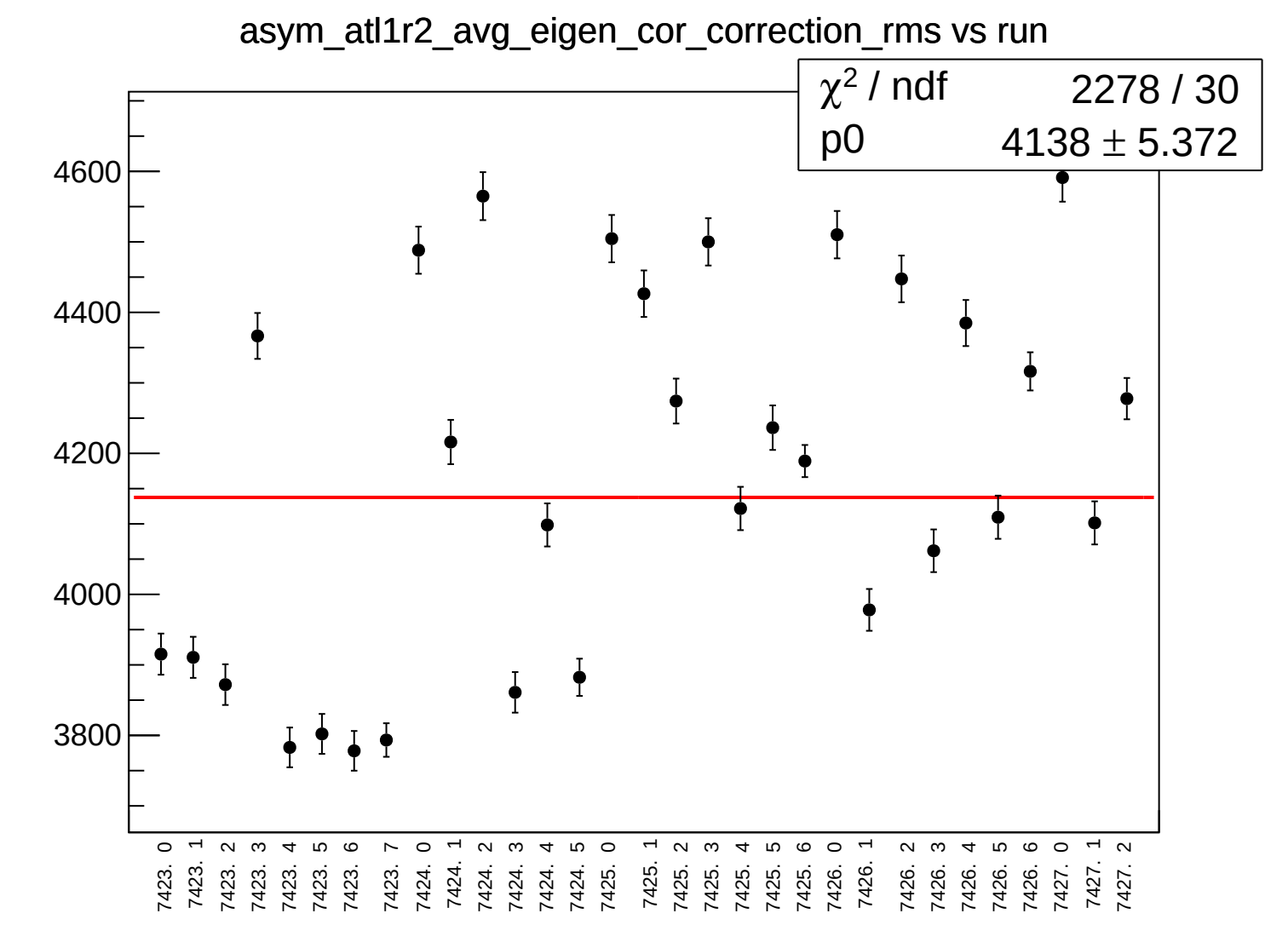

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 28.21 / 30
p0 −612 ± 3066
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −5286
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

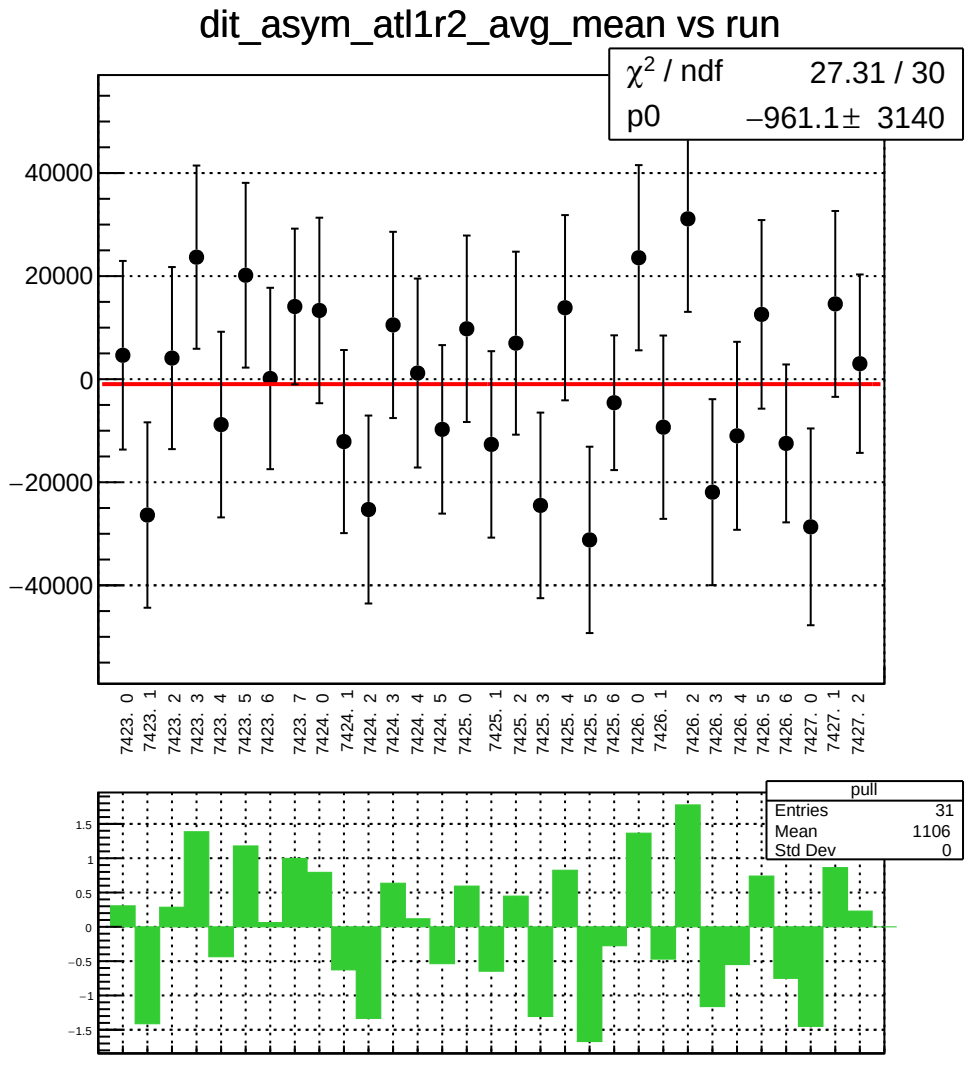

pull1D
Entries 31
Mean 0.0001777
Std Dev 0.9539
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

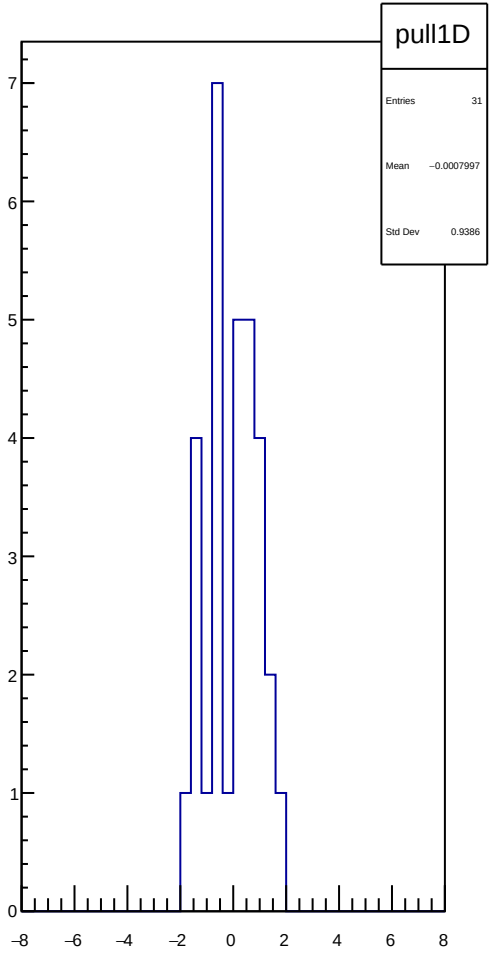

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 49.2 / 30
p0 1673 ± 2.168
1720
1700
1680
1660
1640
1620
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

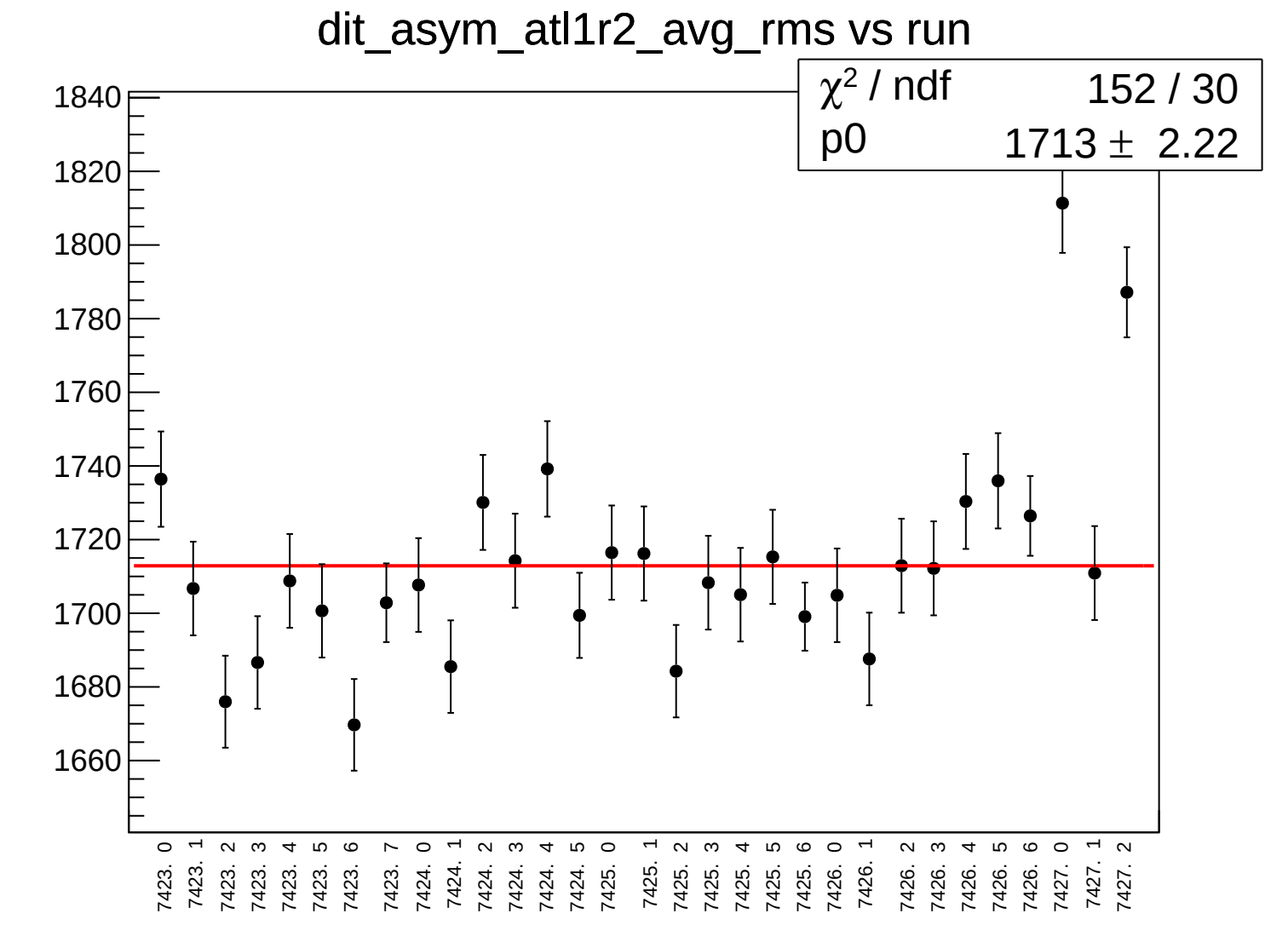

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 23.51 / 30
p0 2949 ± 7597
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 344.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

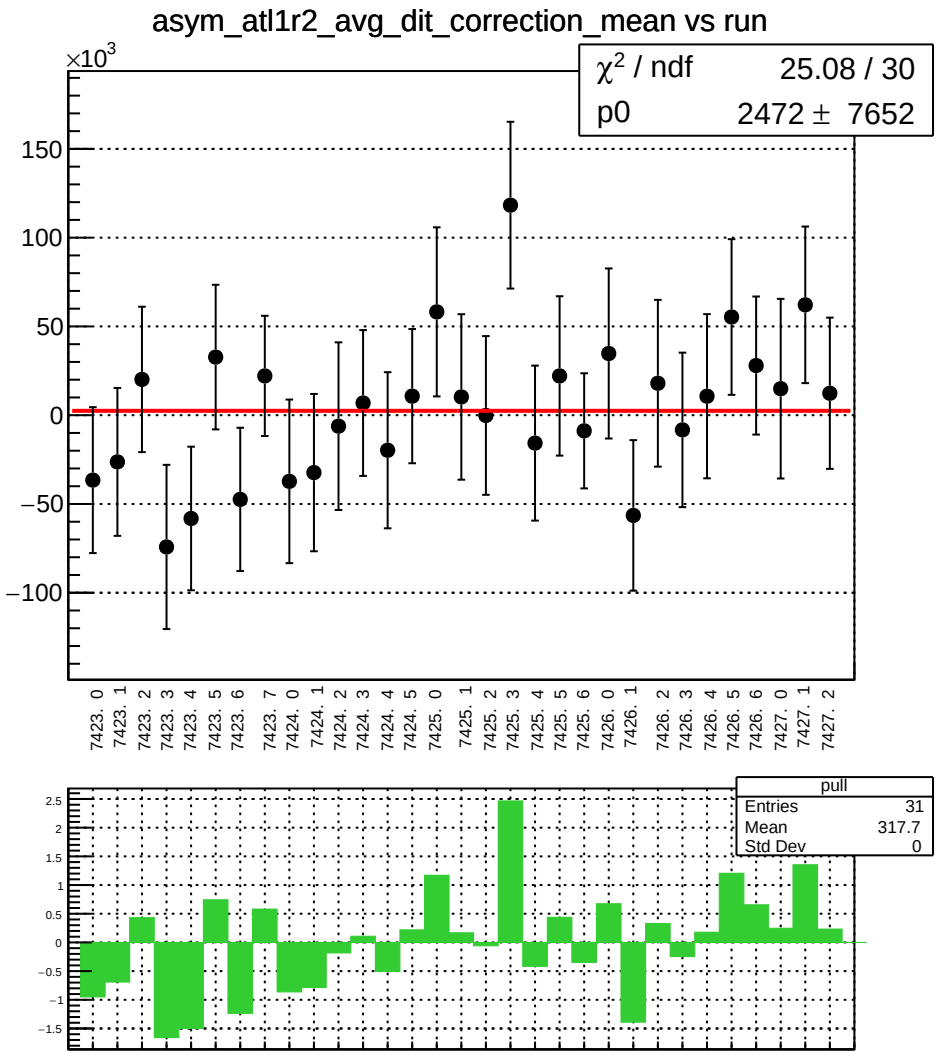

pull1D
Entries 31
Mean 0.01097
Std Dev 0.8708
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

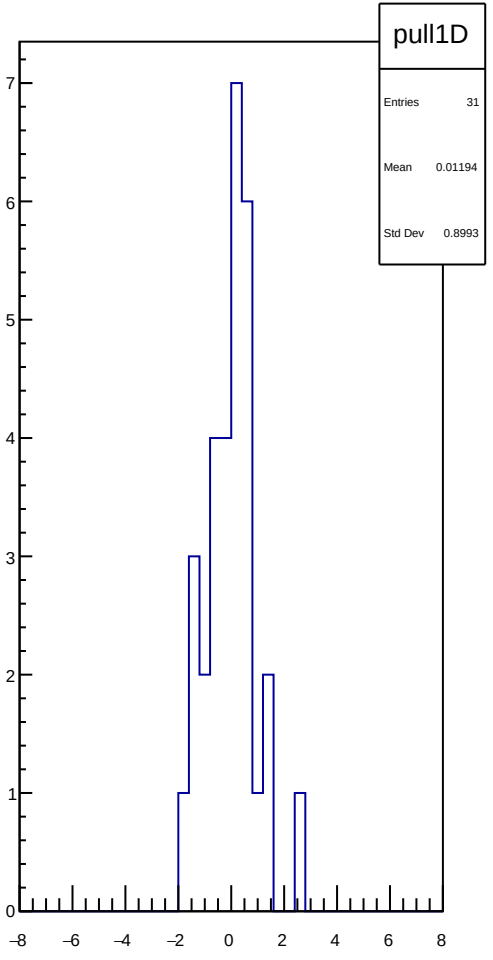

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2278 / 30
p0 4138 ± 5.372
4600
4400
4200
4000
3800
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

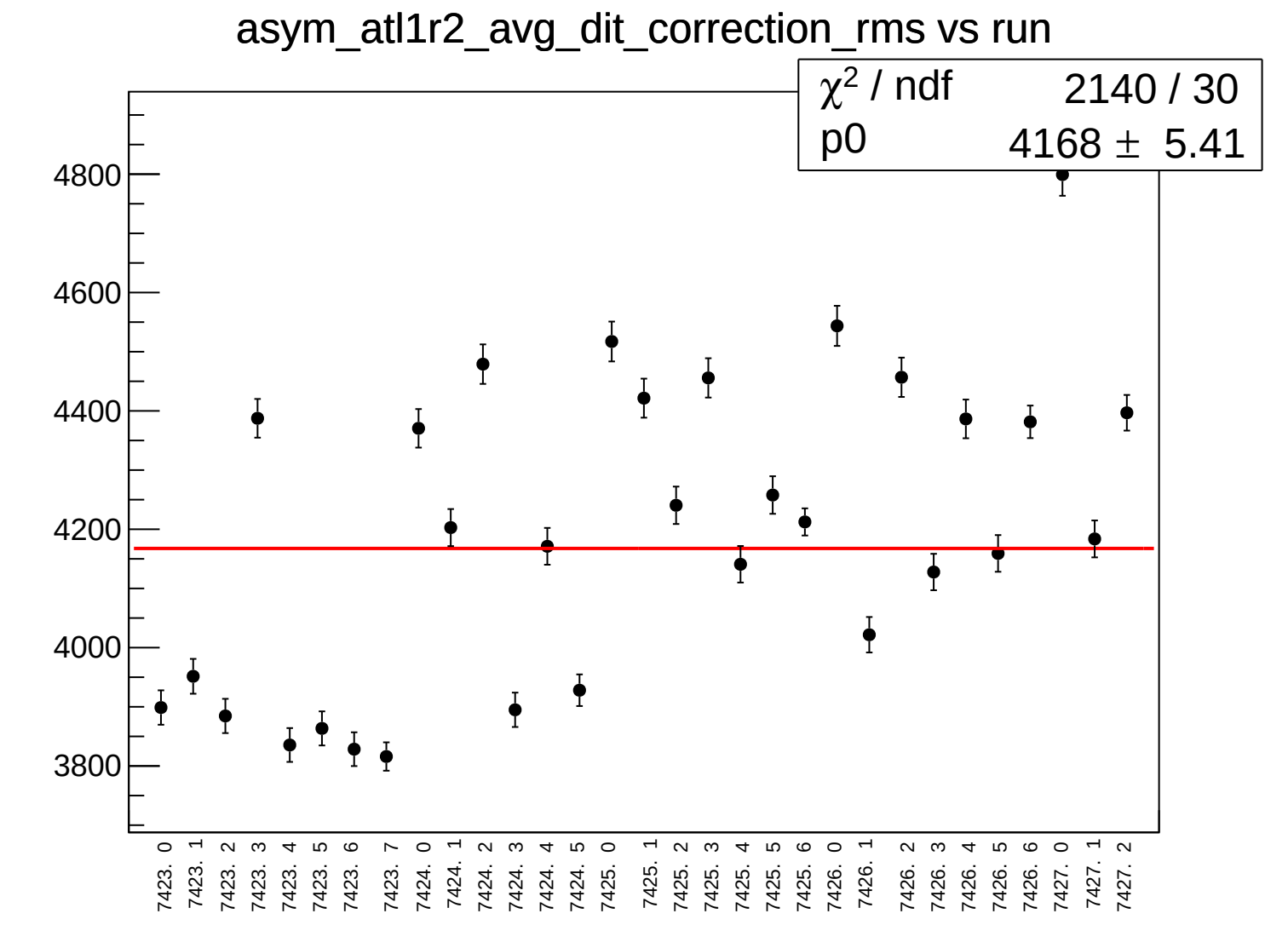

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 27.31 / 30
p0 −961.1± 3140
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1106
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

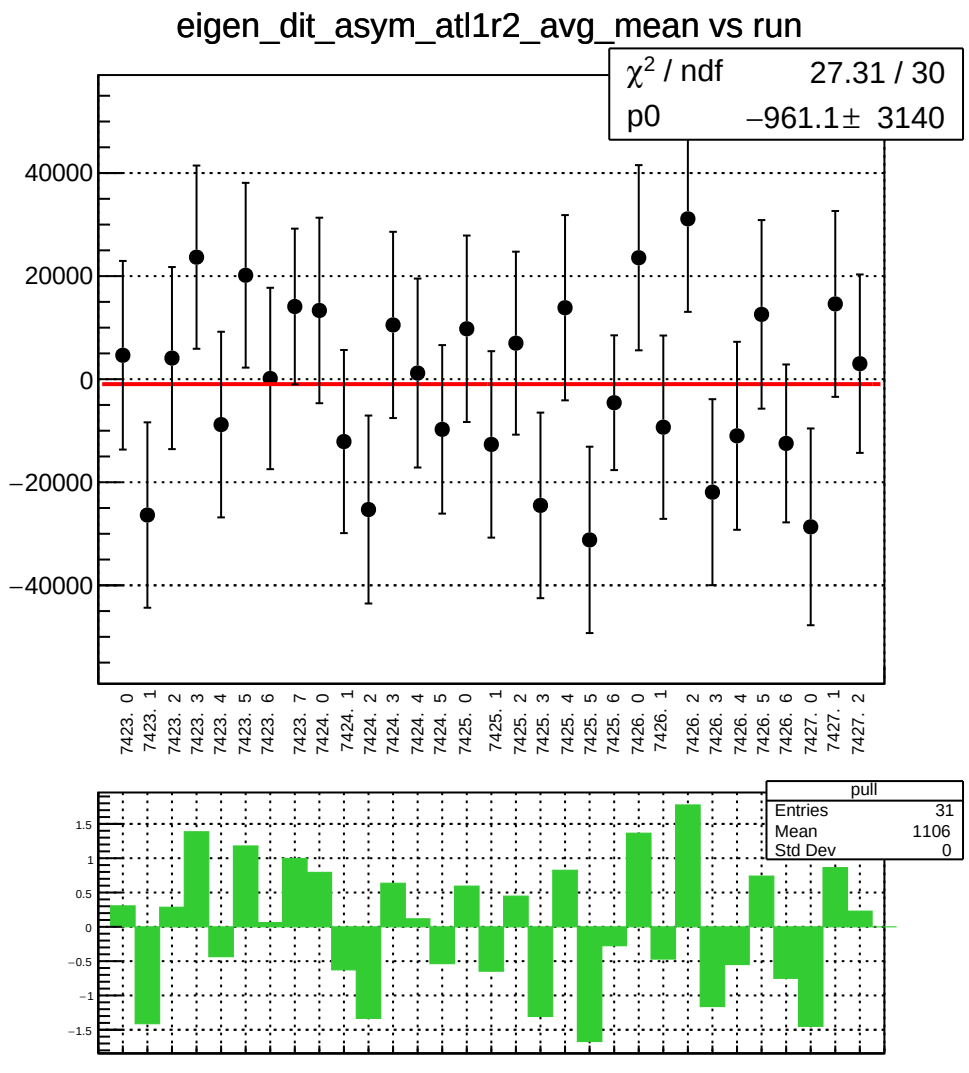

pull1D
Entries 31
Mean −0.0007997
Std Dev 0.9386
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

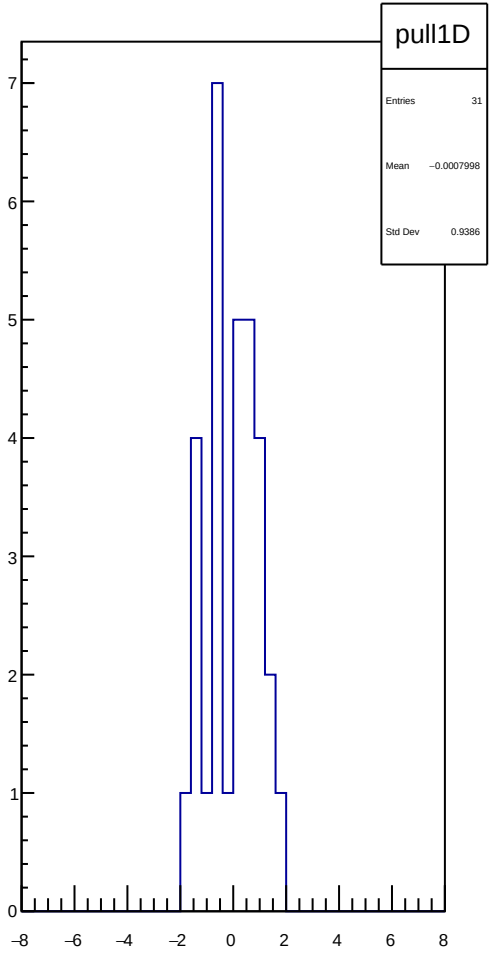

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 152 / 30
p0 1713 ± 2.22
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

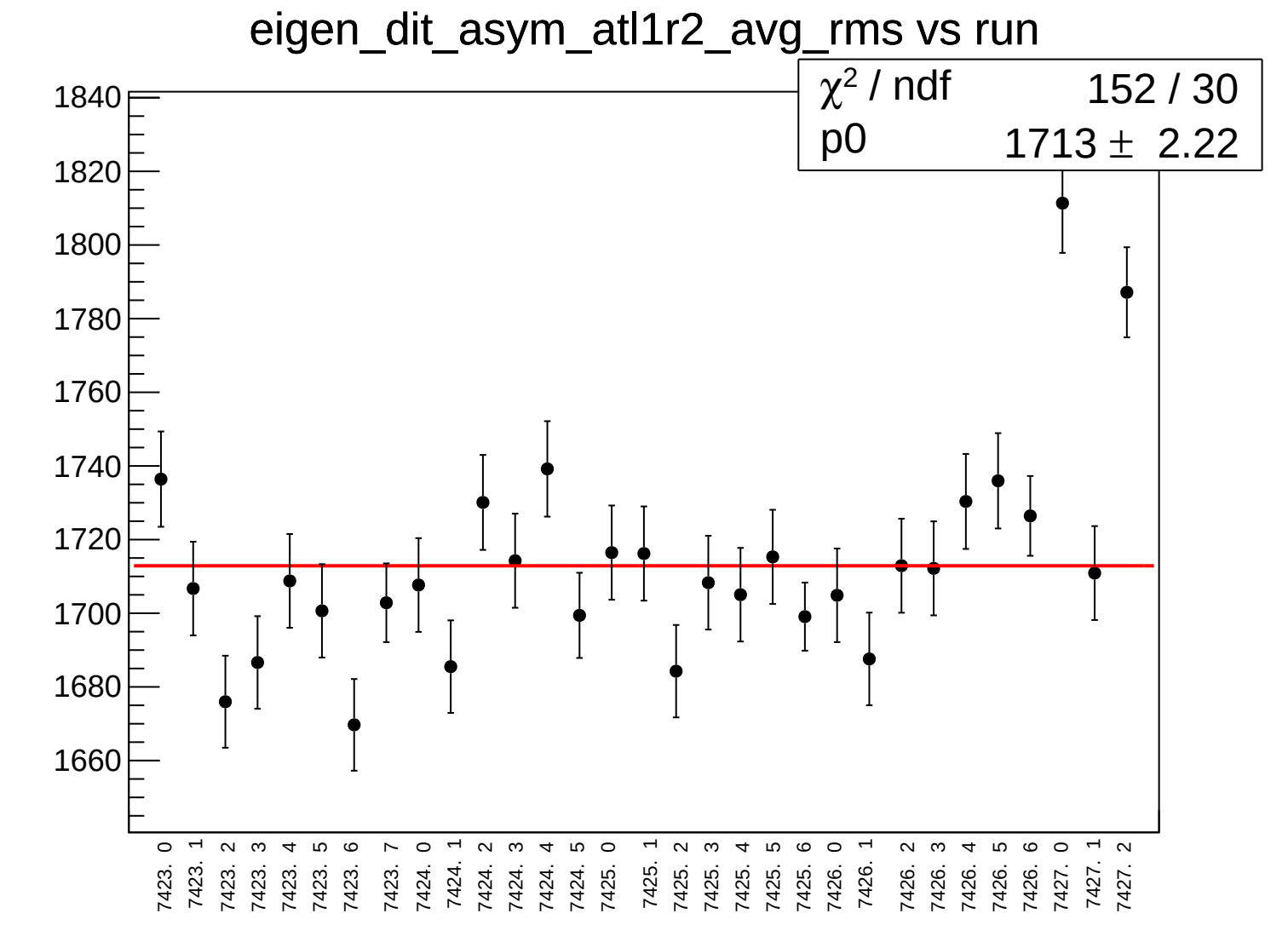

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 25.08 / 30
p0 2472 ± 7652
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 317.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

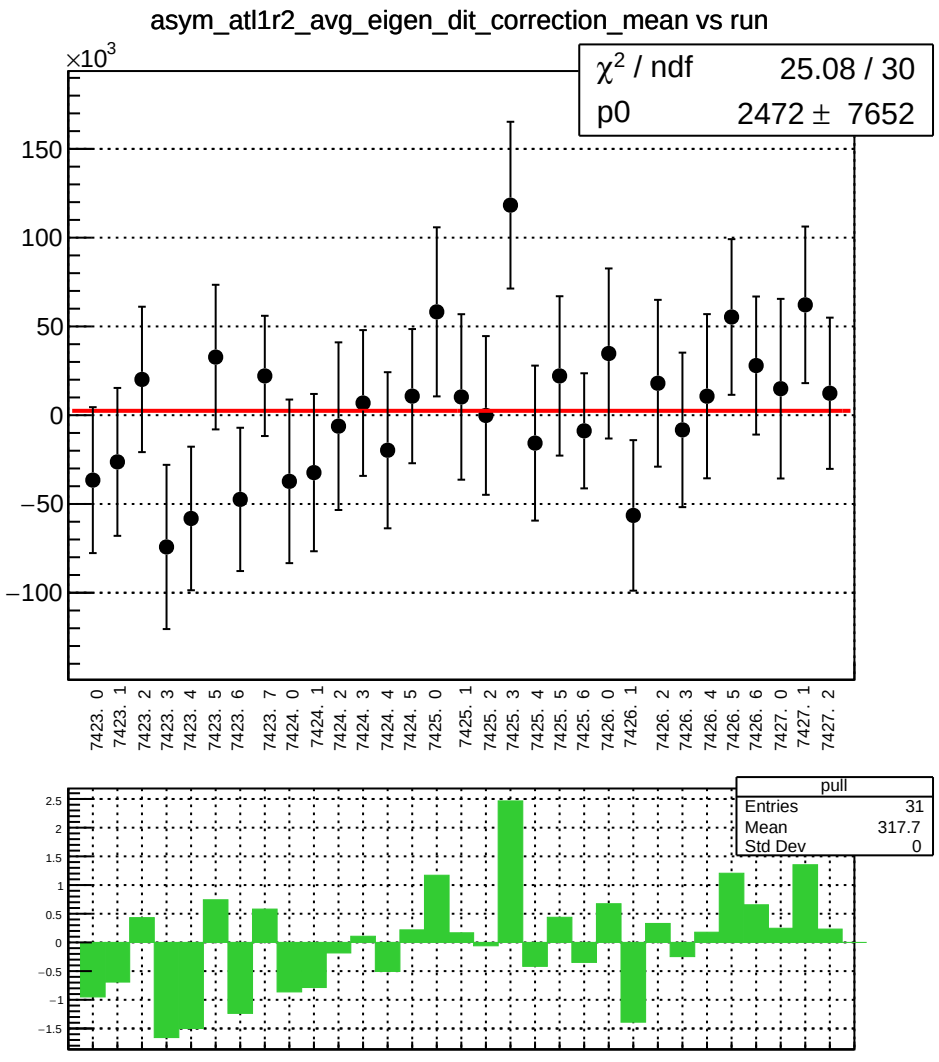

pull1D
Entries 31
Mean 0.01194
Std Dev 0.8993
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

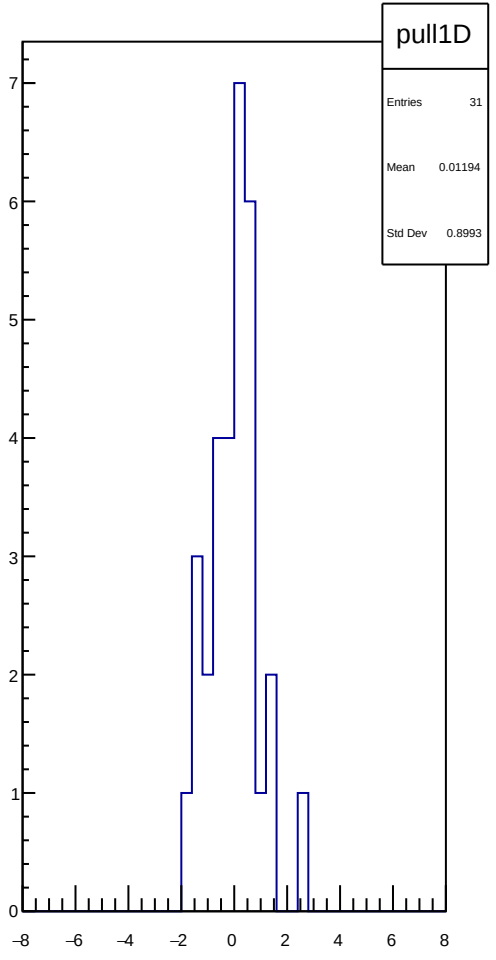

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 2140 / 30
p0 4168 ± 5.41
4800
4600
4400
4200
4000
3800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

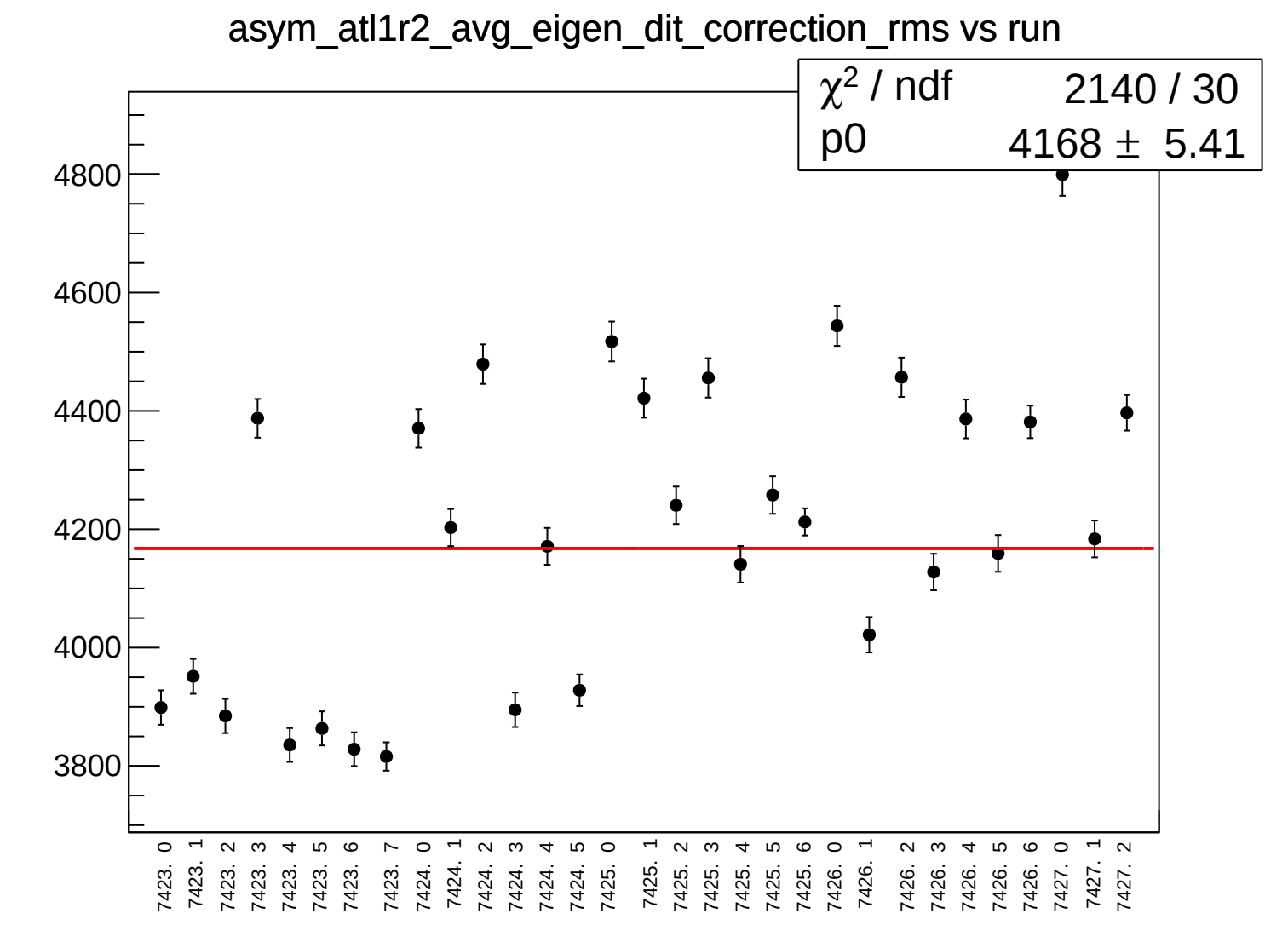

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 27.31 / 30
p0 −961.1± 3140
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1106
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

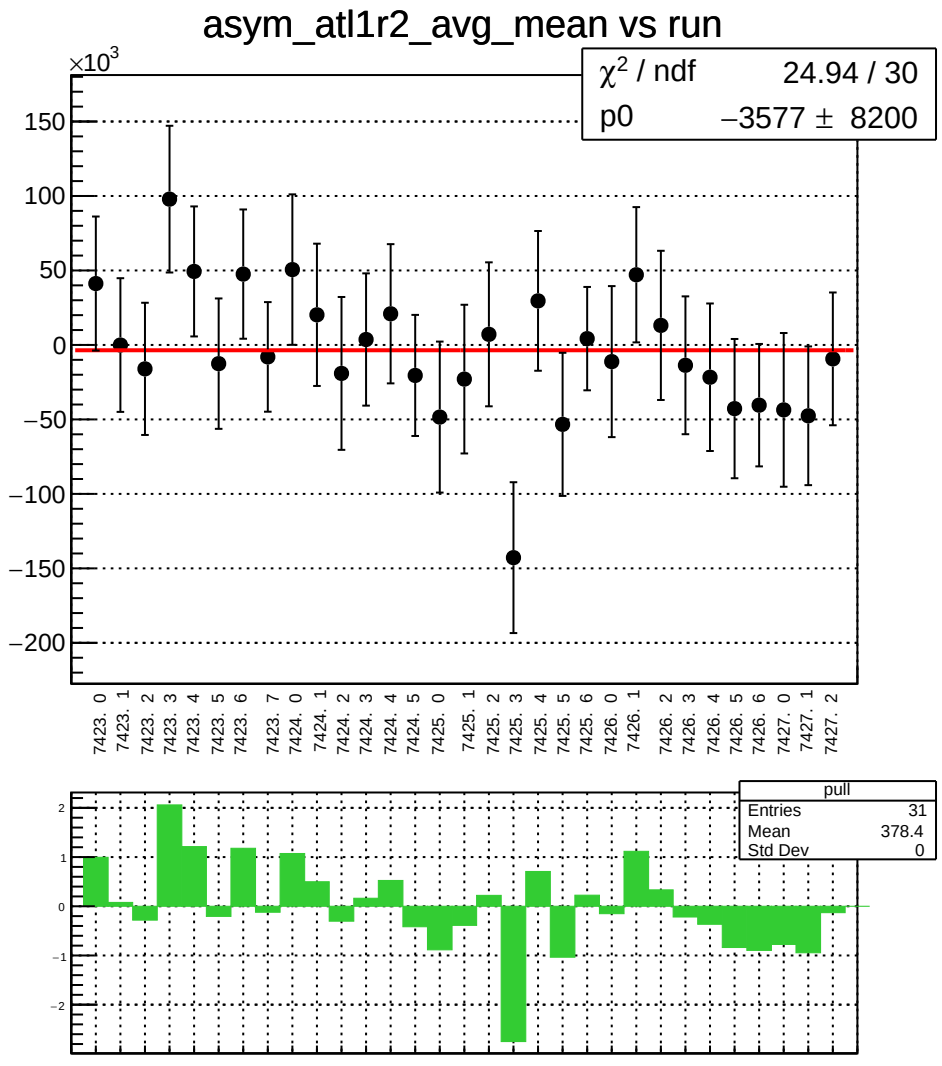

pull1D
Entries 31
Mean −0.0007998
Std Dev 0.9386
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

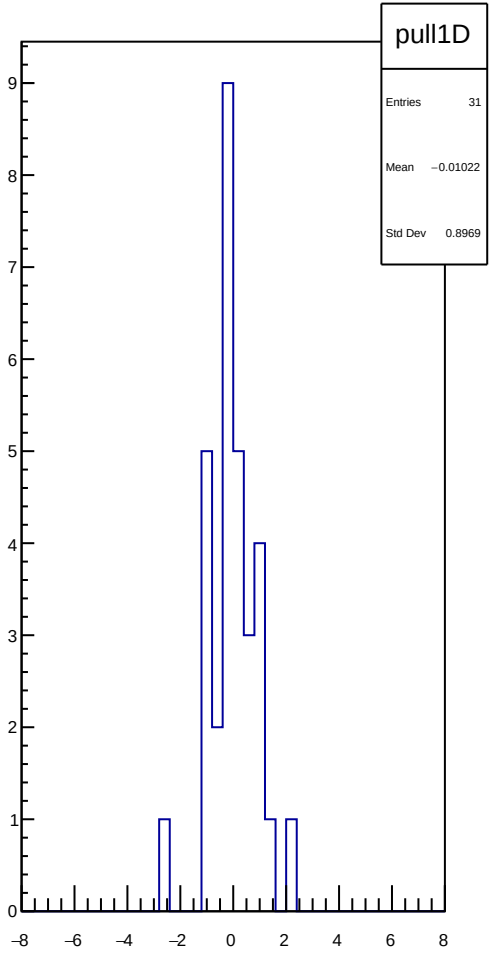

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 152 / 30
p0 1713 ± 2.22
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

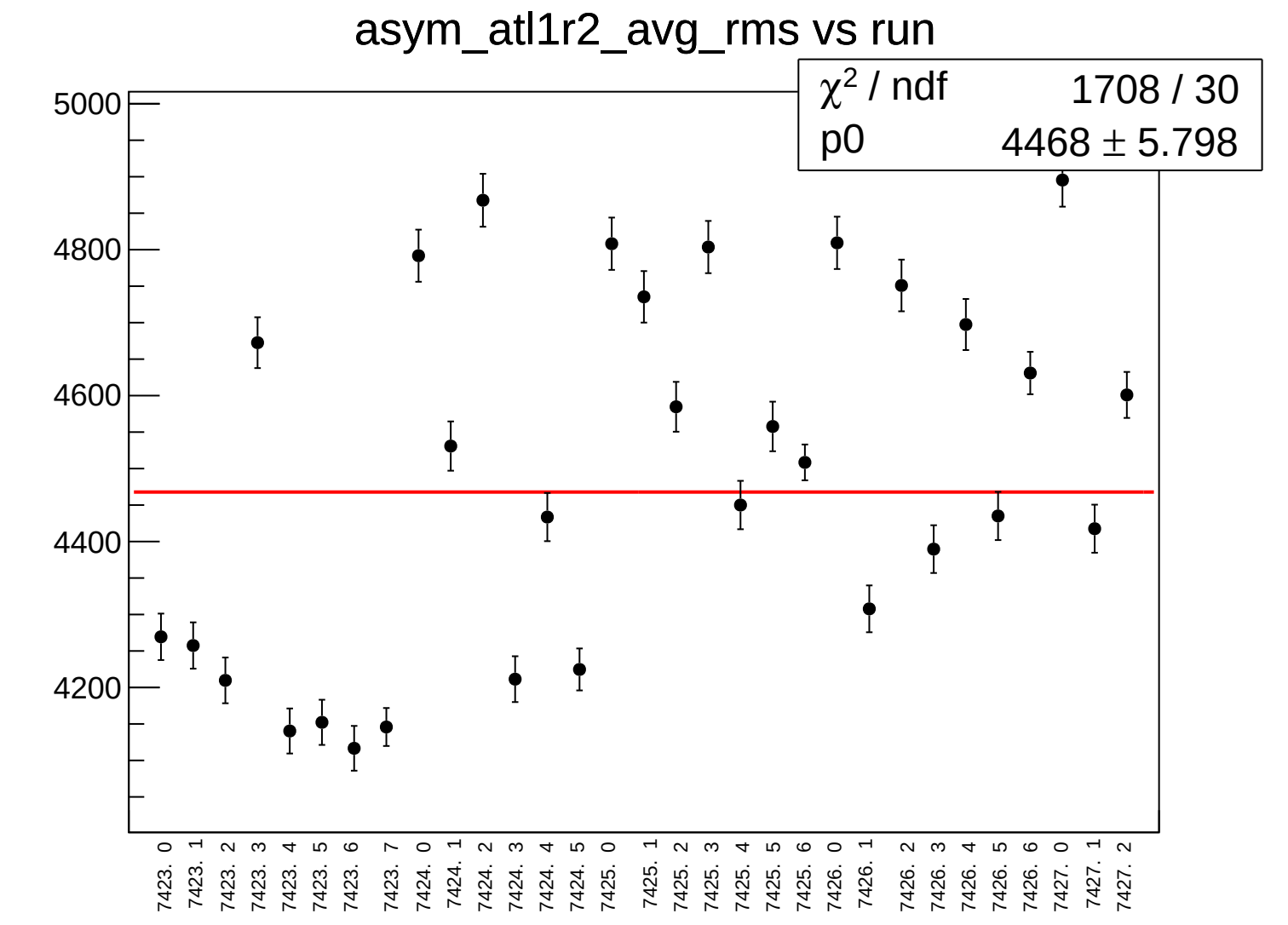

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 25.08 / 30
p0 2472 ± 7652
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 317.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

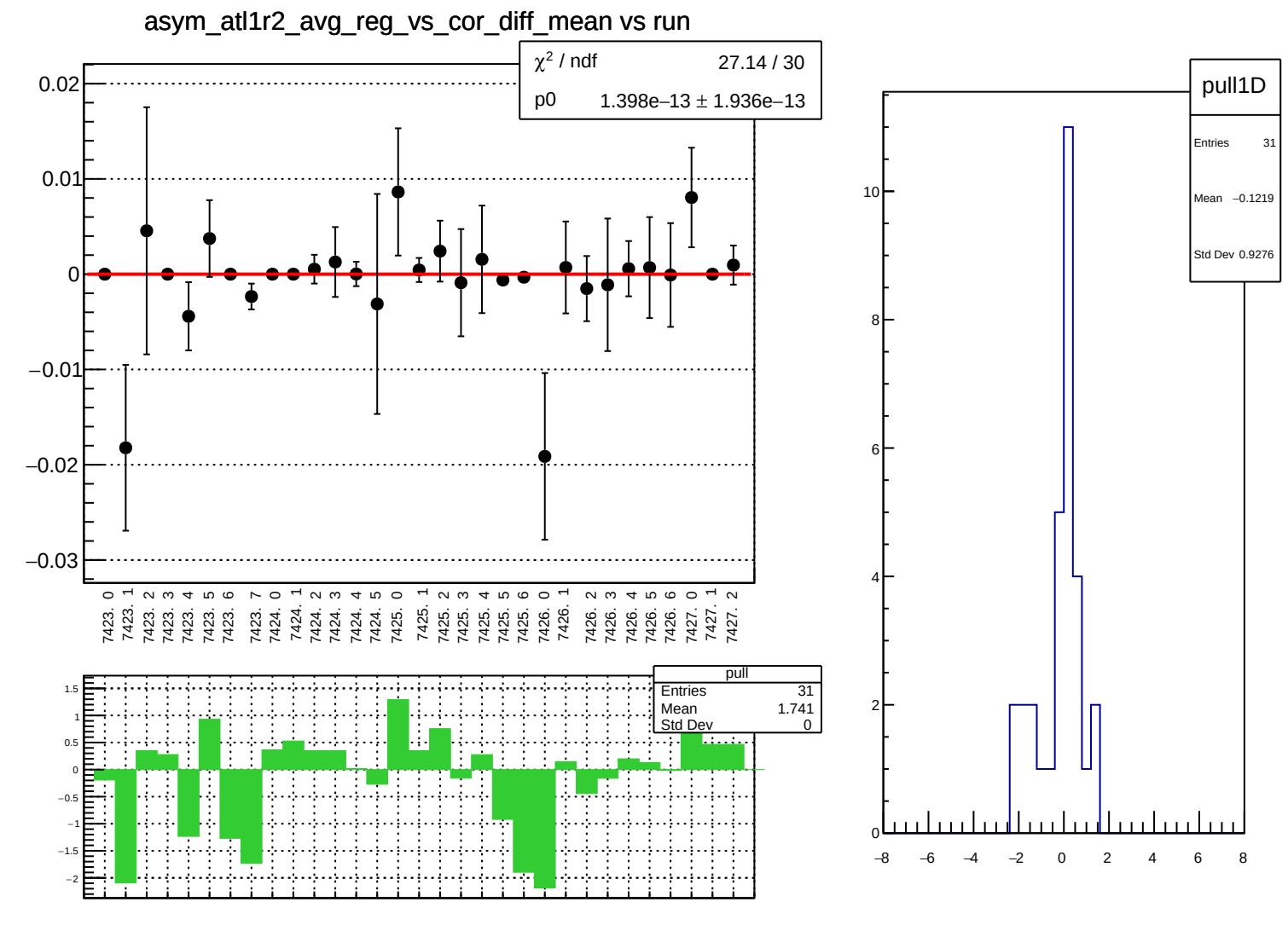

pull1D
Entries 31
Mean 0.01194
Std Dev 0.8993
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

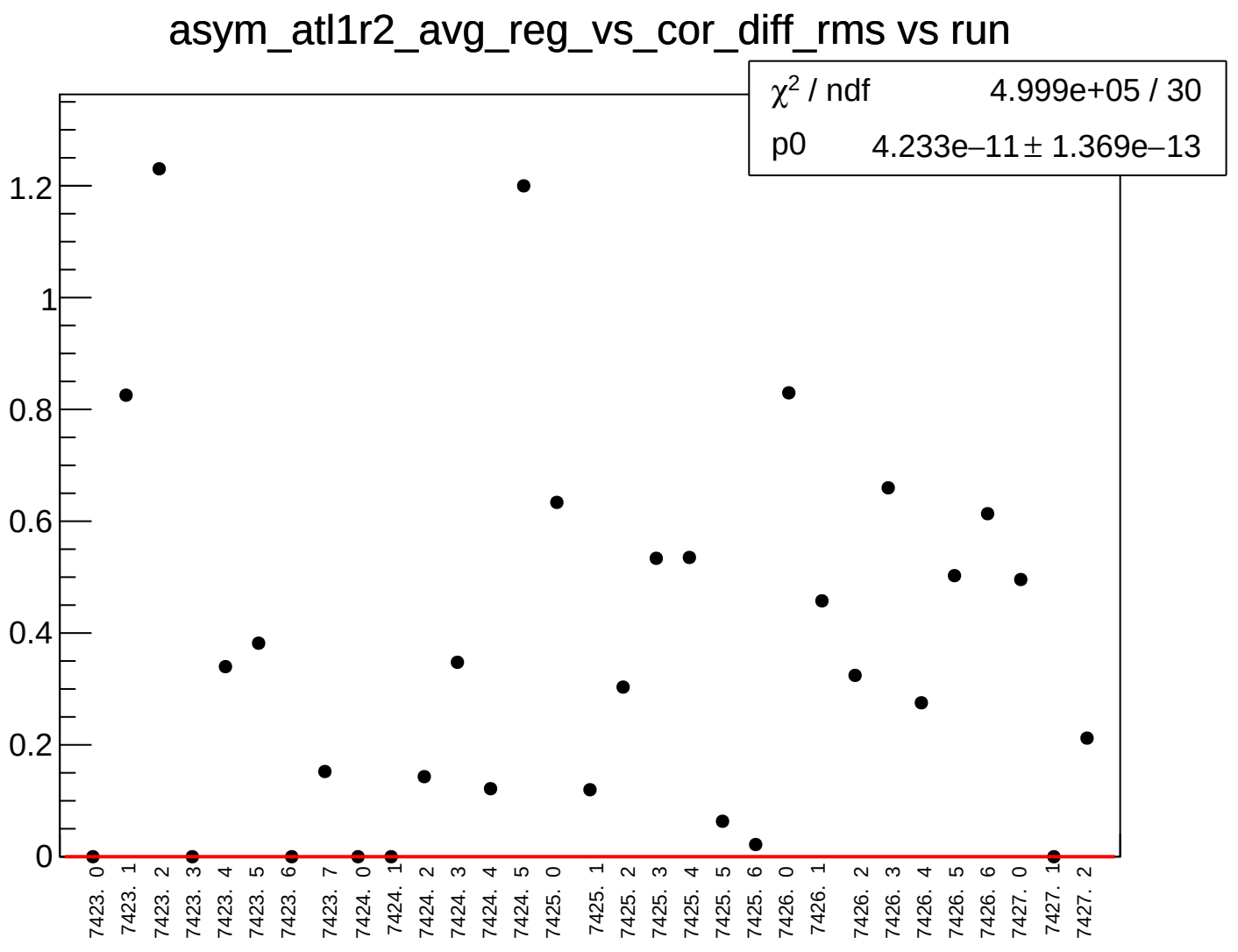

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2140 / 30
p0 4168 ± 5.41
4800
4600
4400
4200
4000
3800
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

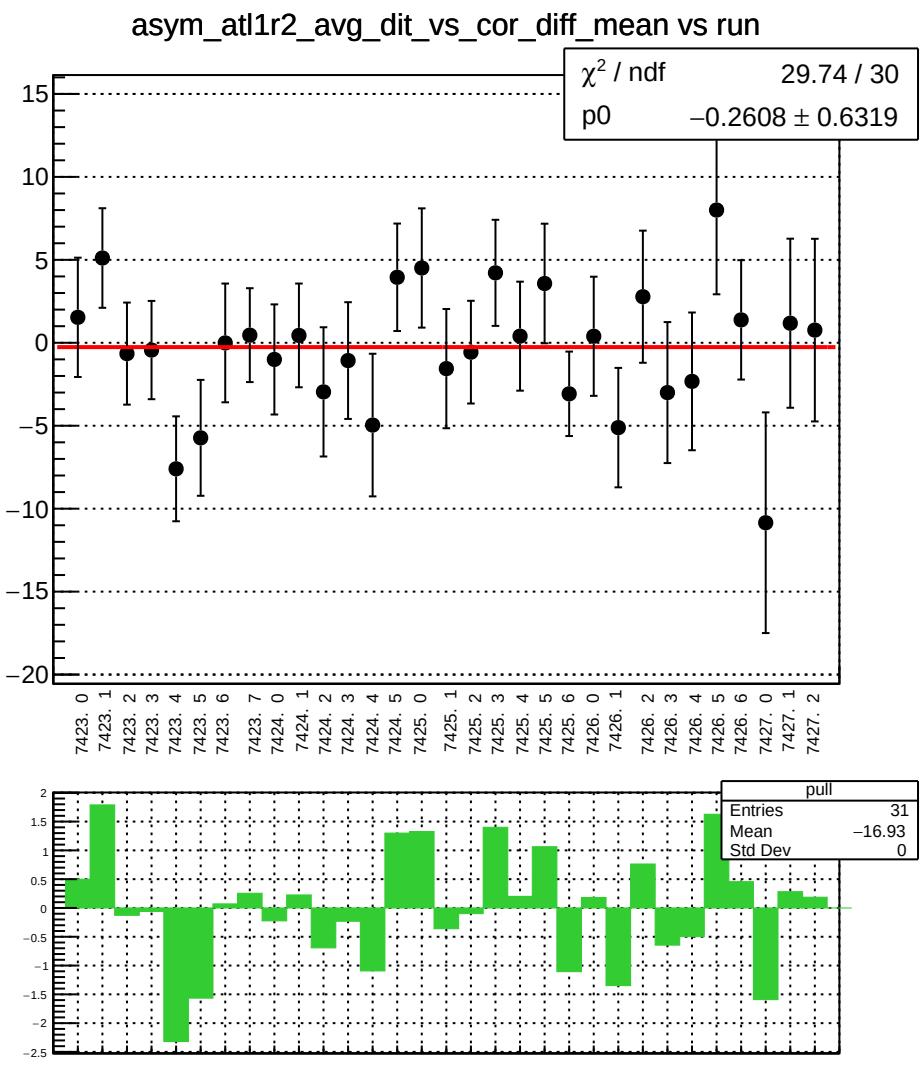

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 24.94 / 30
p0 −3577 ± 8200
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 378.4
Std Dev 0
2
1
0
−1
−2

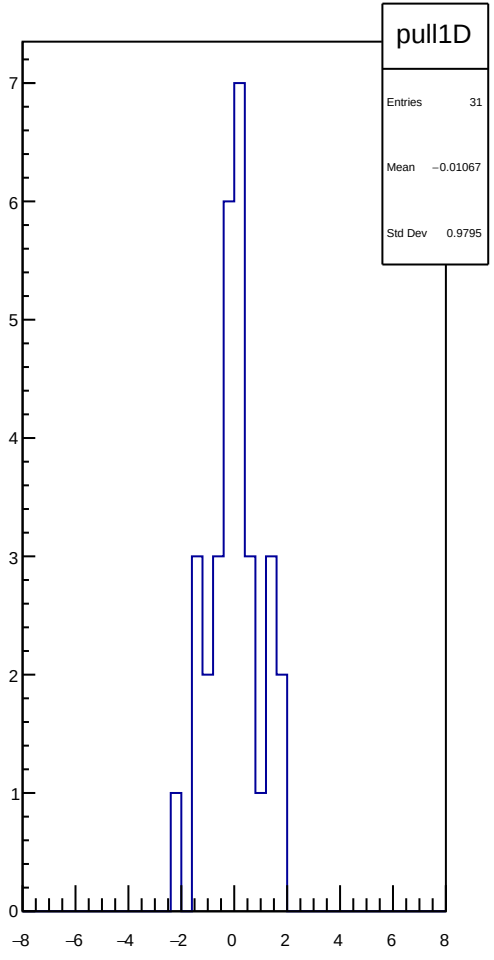

pull1D
Entries 31
Mean −0.01022
Std Dev 0.8969
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

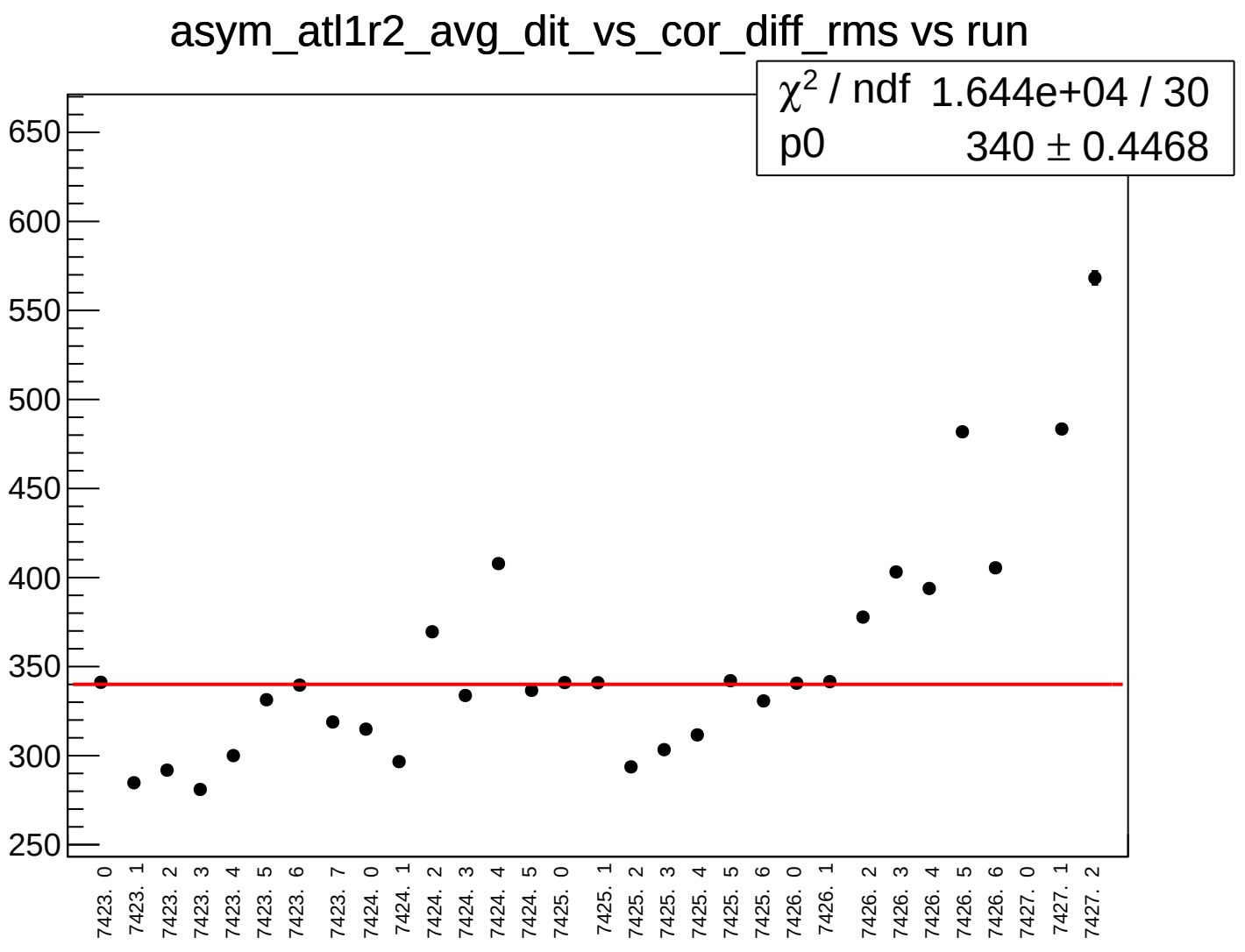

asym_atl1r2_avg_rms vs run
χ² / ndf 1708 / 30
p0 4468 ± 5.798
5000
4800
4600
4400
4200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

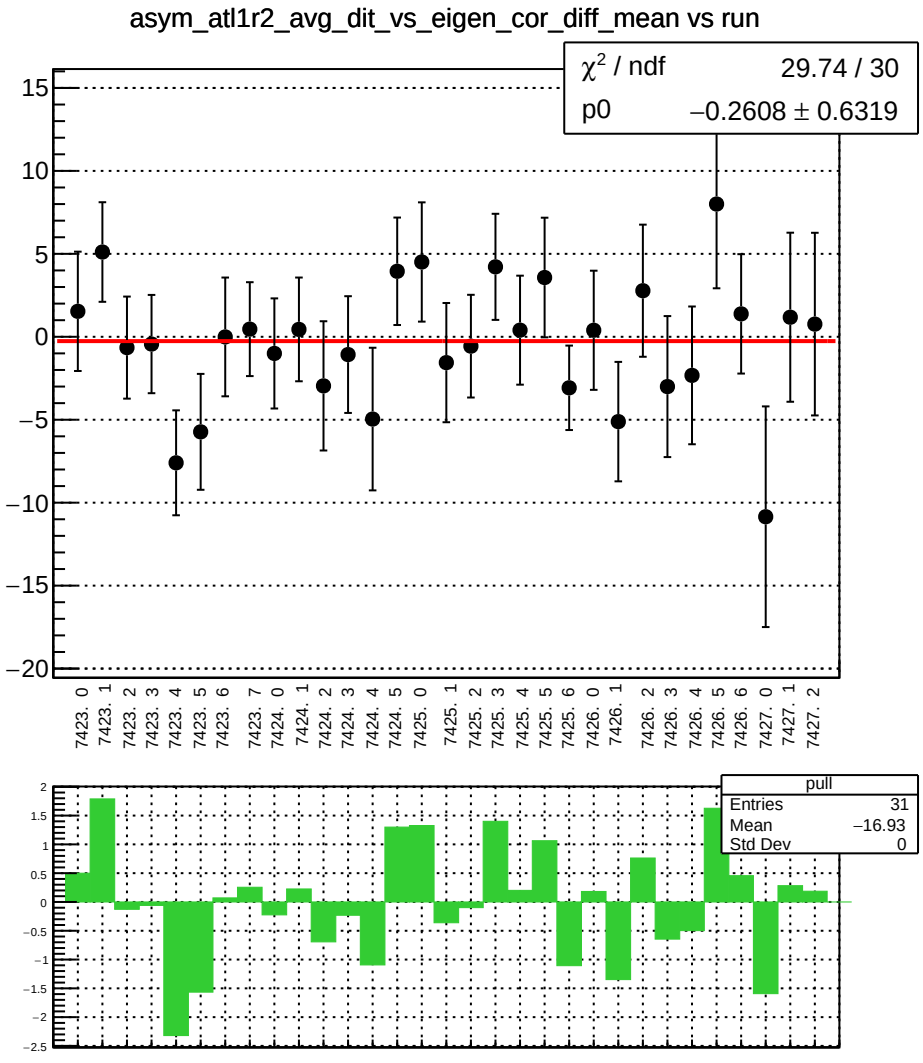

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.14 / 30
p0 1.398e−13 ± 1.936e−13
0.02
0.01
0
−0.01
−0.02
−0.03
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1.741
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.1219
Std Dev 0.9276
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

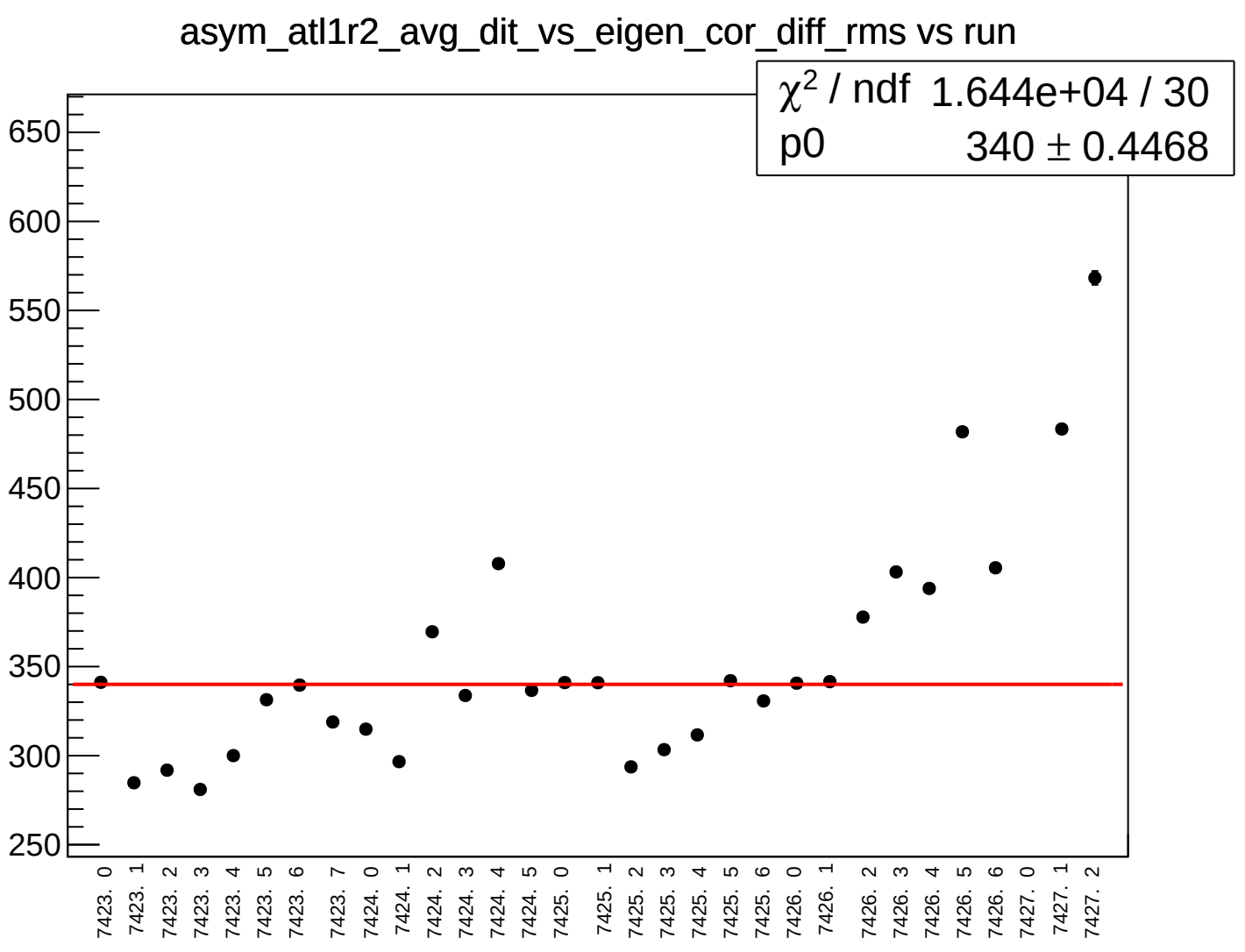

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.999e+05 / 30
p0 4.233e−11 ± 1.369e−13
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

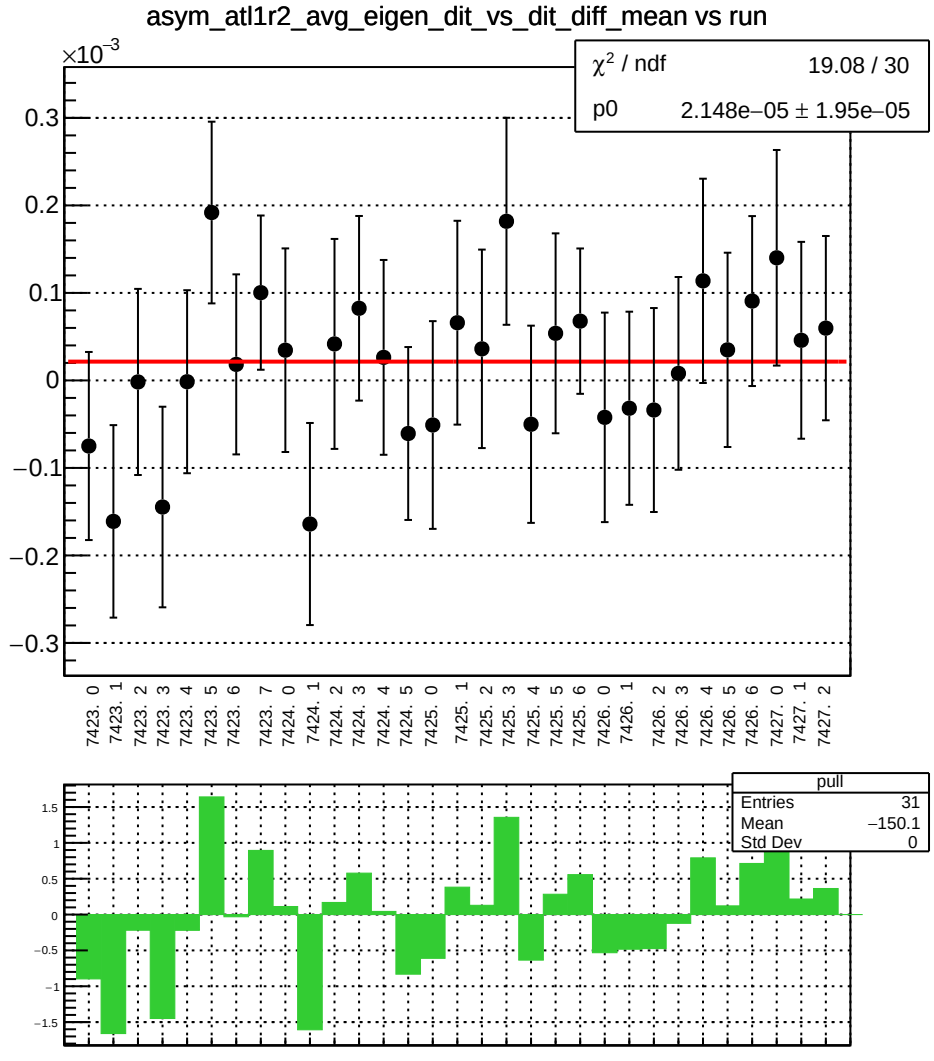

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29.74 / 30
p0 −0.2608 ± 0.6319
pull
Entries 31
Mean −16.93
Std Dev 0

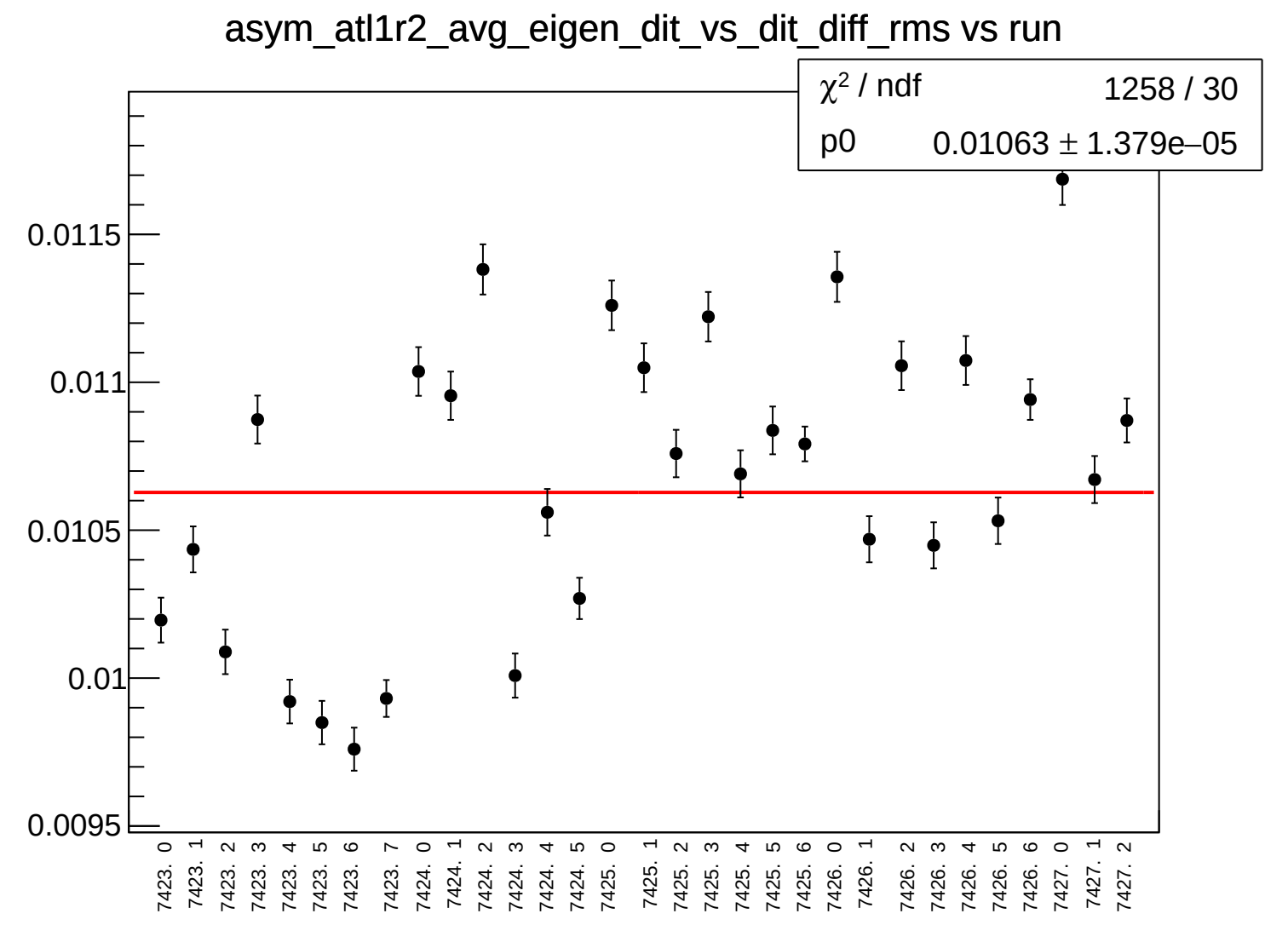

pull1D
Entries 31
Mean −0.01067
Std Dev 0.9795

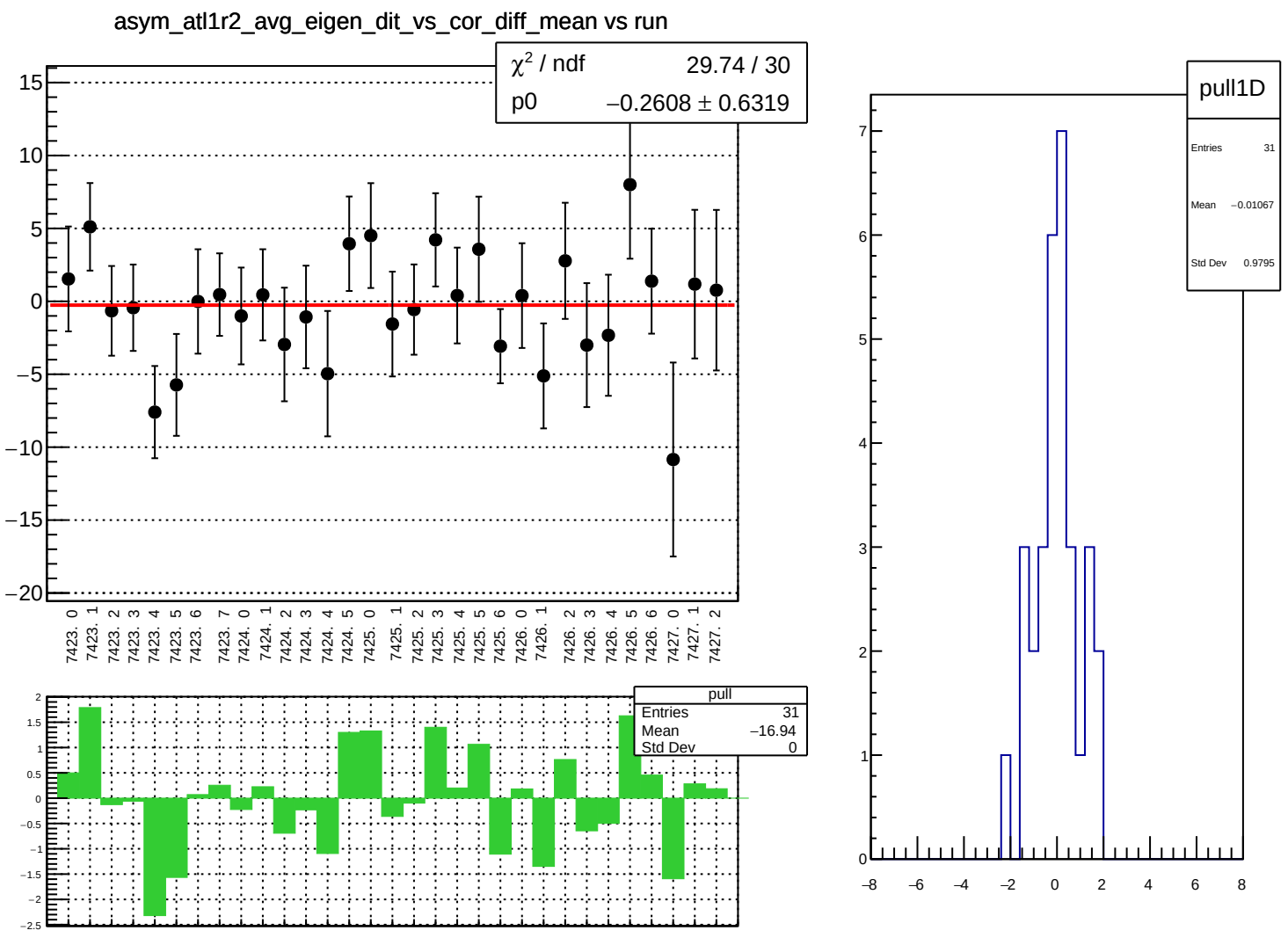

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.644e+04 / 30
p0 340 ± 0.4468
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

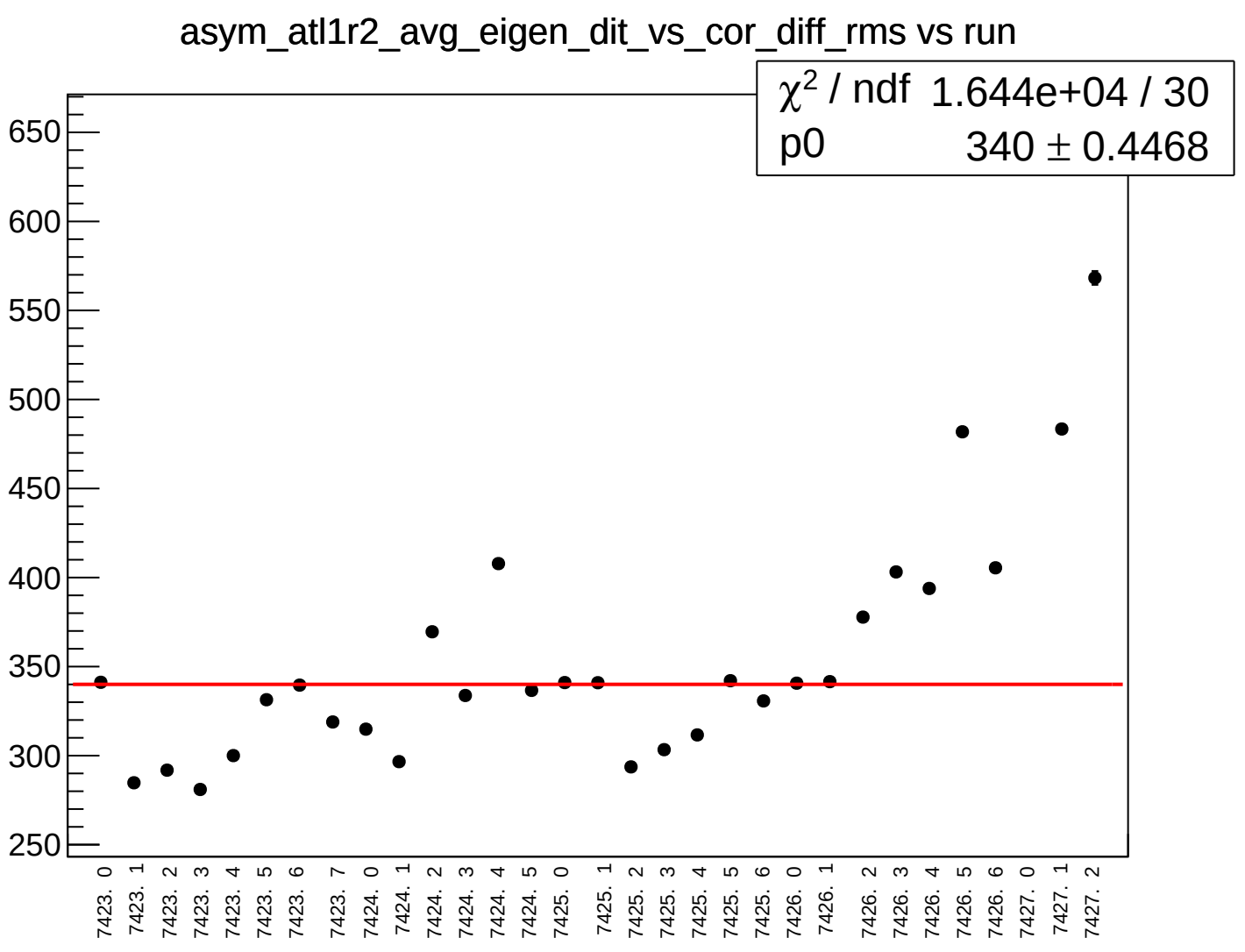

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.74 / 30
p0 −0.2608 ± 0.6319
pull
Entries 31
Mean −16.93
Std Dev 0
pull1D
Entries 31
Mean −0.01067
Std Dev 0.9795

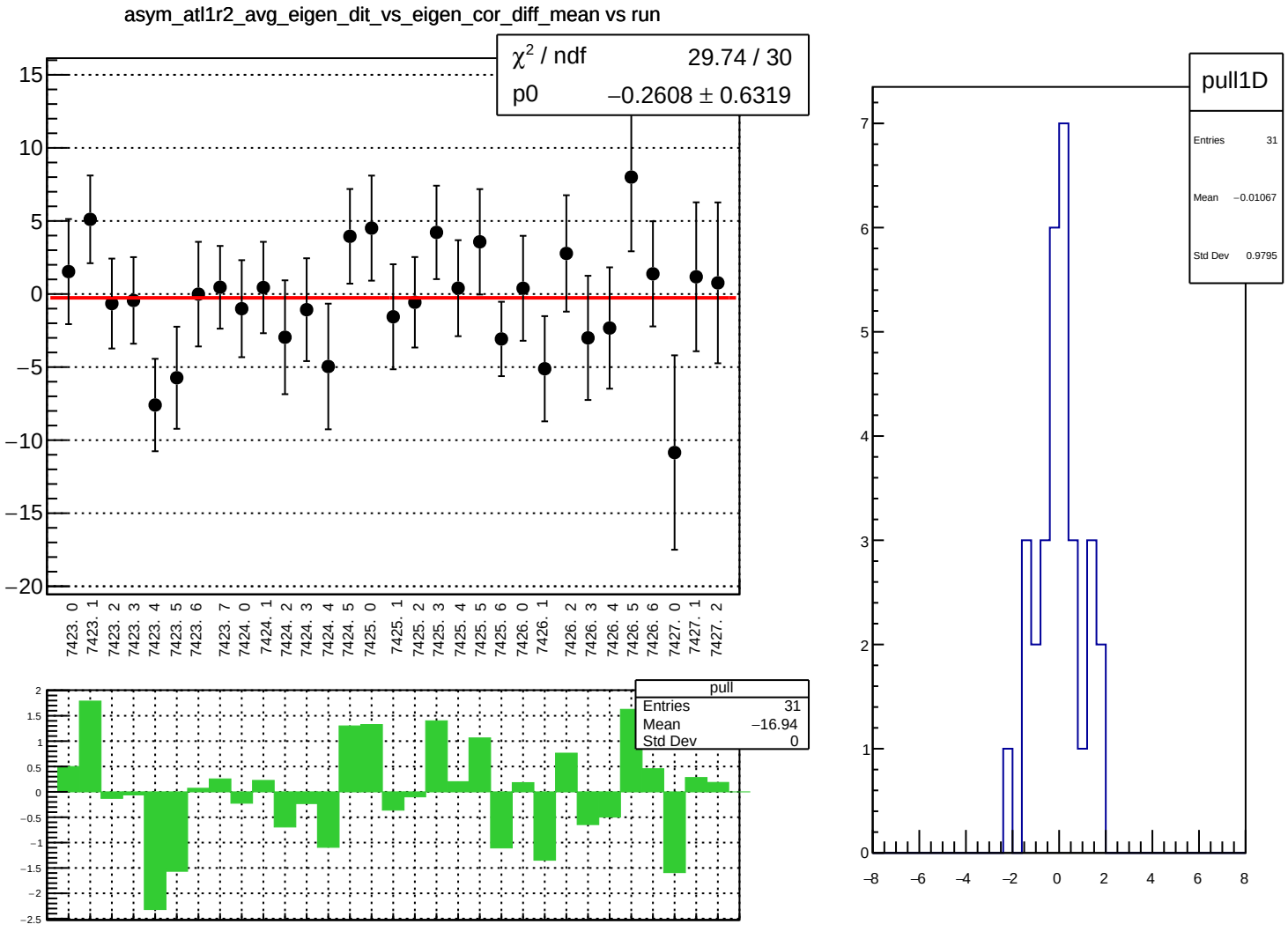

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.644e+04 / 30
p0 340 ± 0.4468
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

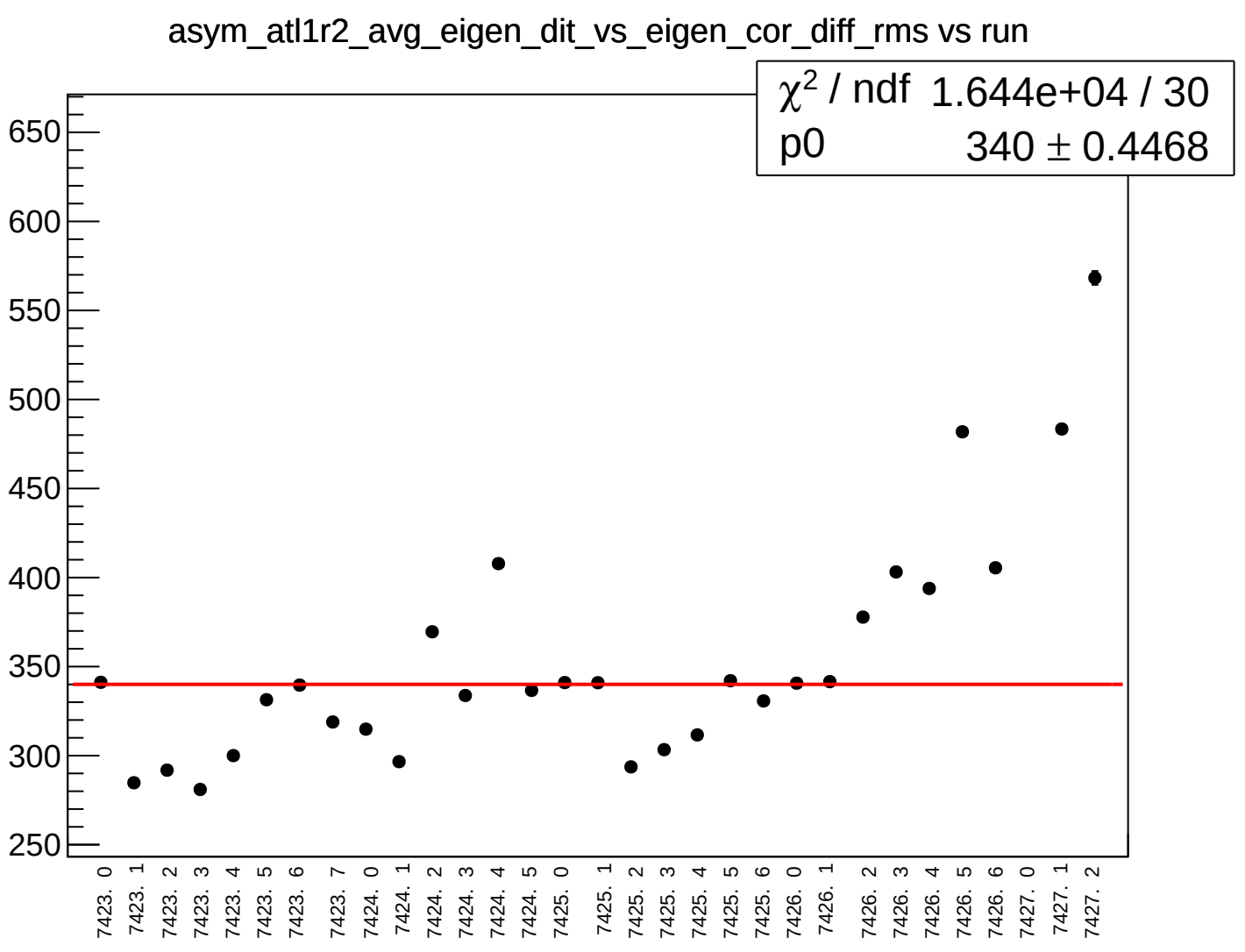

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.08 / 30
p0 2.148e−05 ± 1.95e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −150.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01482
Std Dev 0.7844
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

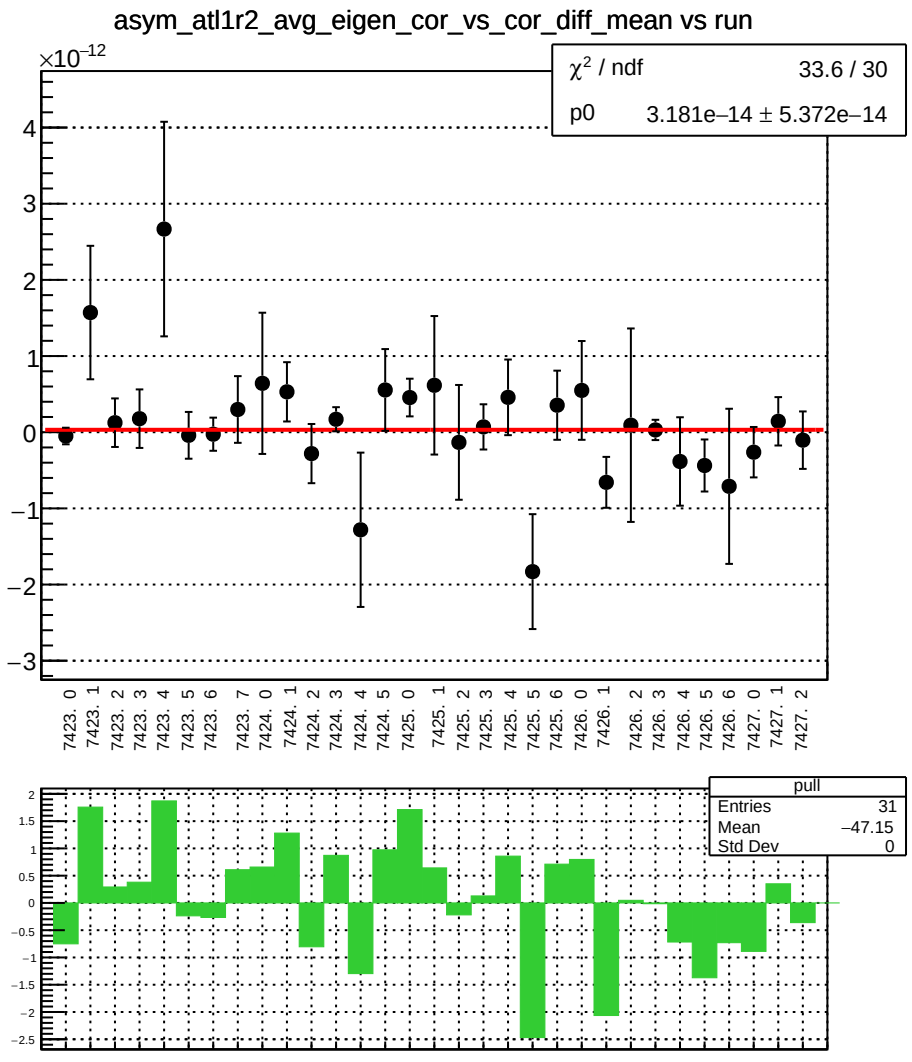

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1258 / 30
p0 0.01063 ± 1.379e–05
0.0115
0.011
0.0105
0.01
0.0095
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

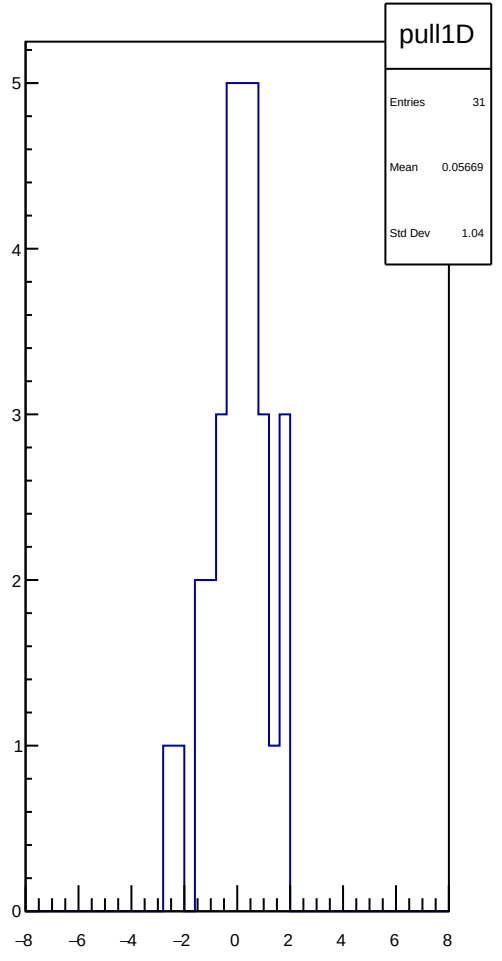

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.74 / 30
p0 −0.2608 ± 0.6319
pull
Entries 31
Mean −16.94
Std Dev 0
pull1D
Entries 31
Mean −0.01067
Std Dev 0.9795

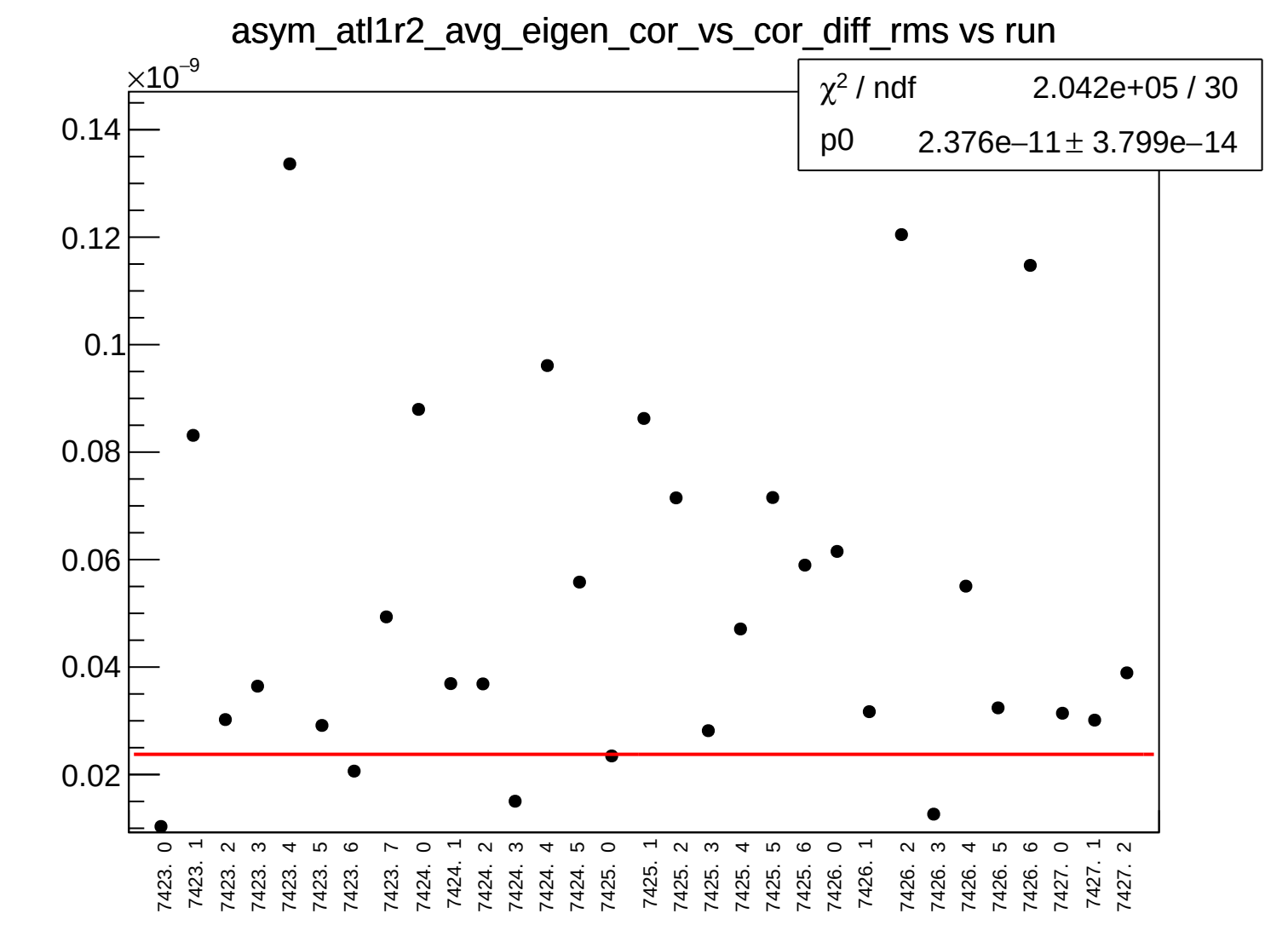

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.644e+04 / 30
p0 340 ± 0.4468
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

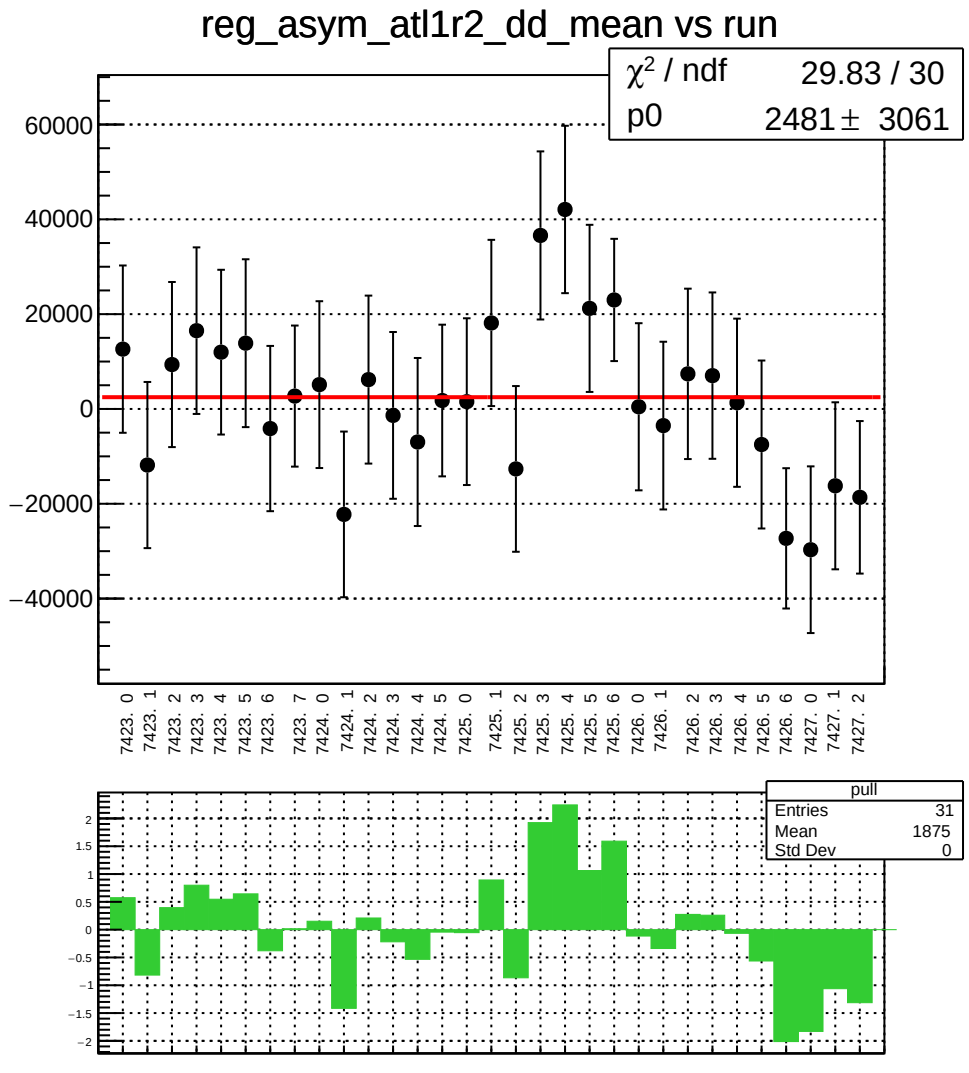

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.74 / 30
p0 −0.2608 ± 0.6319
pull
Entries 31
Mean −16.94
Std Dev 0
pull1D
Entries 31
Mean −0.01067
Std Dev 0.9795

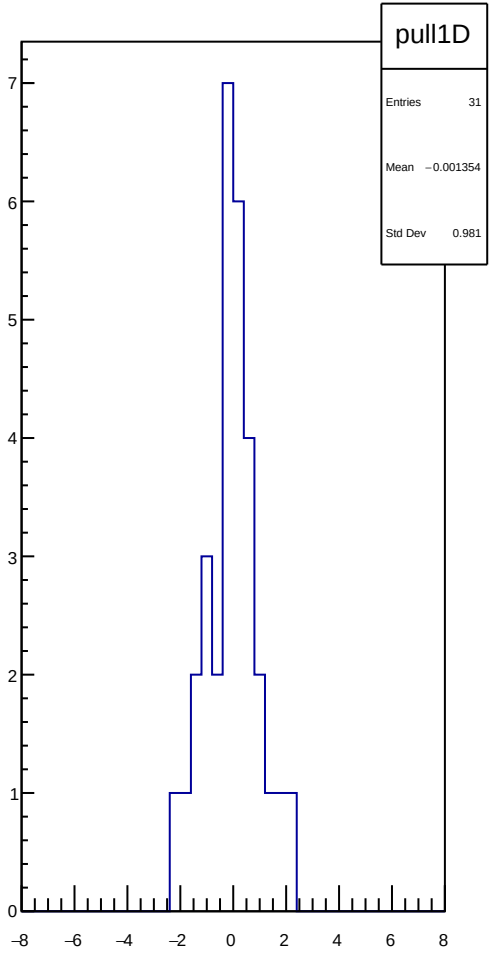

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.644e+04 / 30
p0 340 ± 0.4468
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

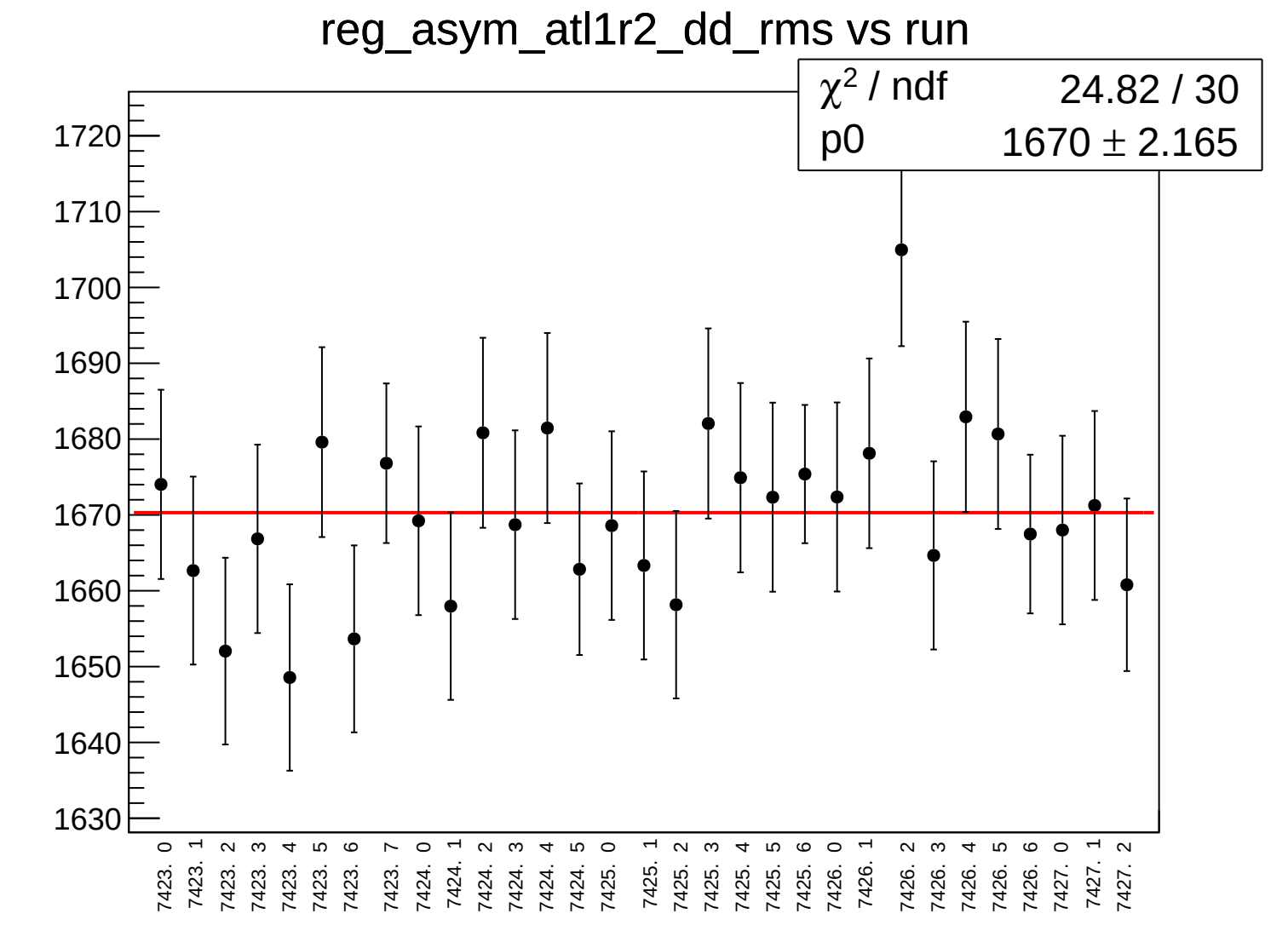

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.6 / 30
p0 3.181e−14 ± 5.372e−14
4
3
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −47.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

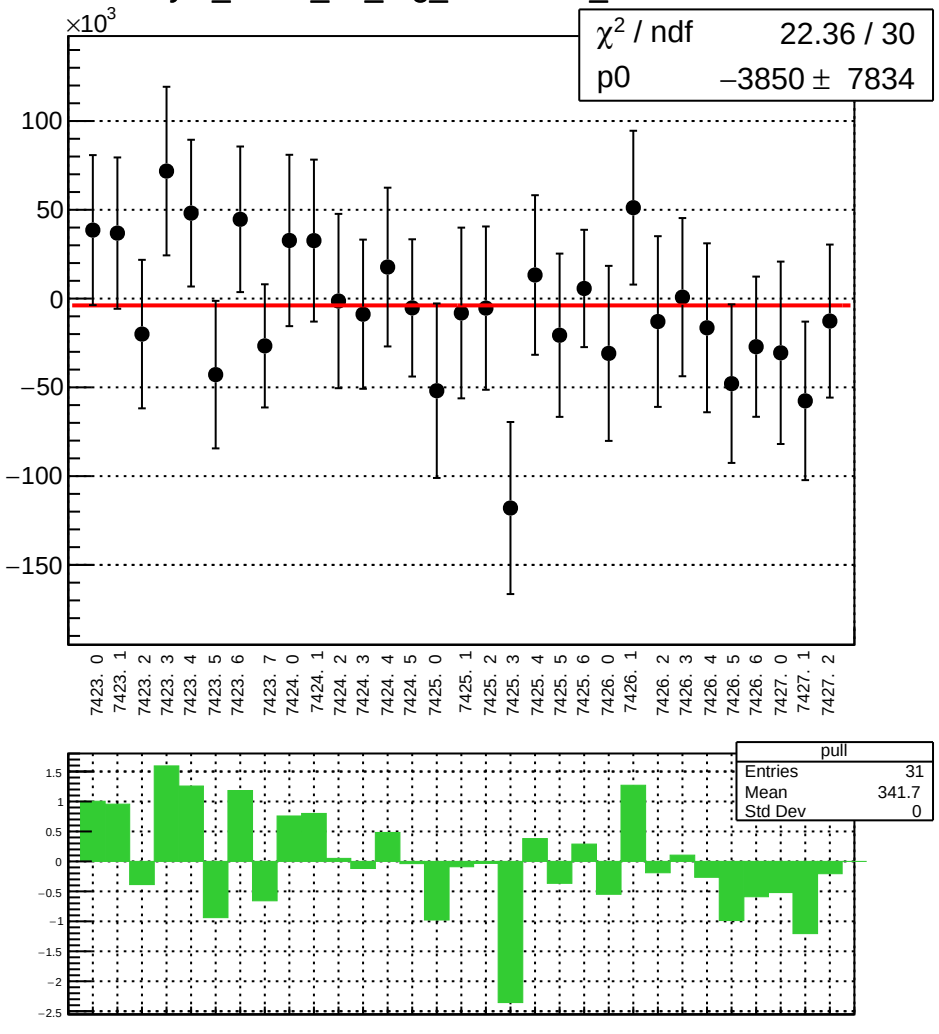

pull1D
Entries 31
Mean 0.05669
Std Dev 1.04
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

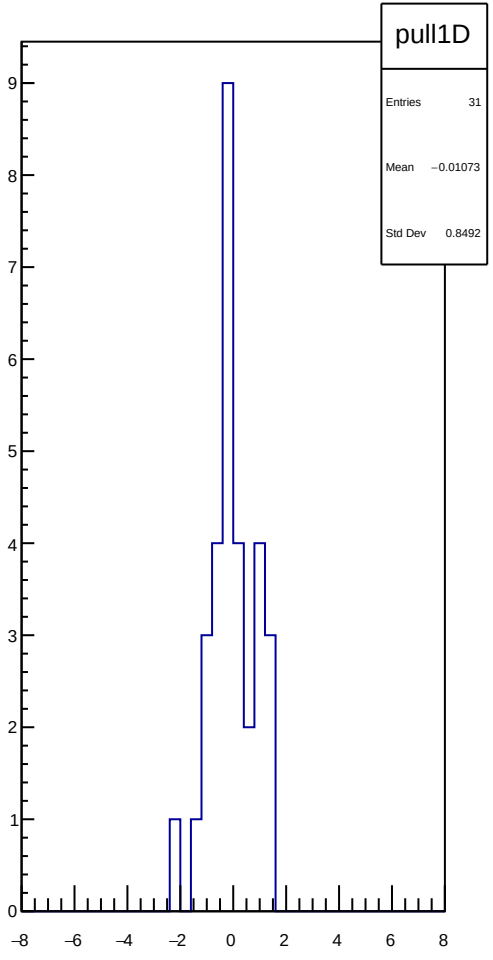

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.042e+05 / 30
p0 2.376e−11 ± 3.799e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

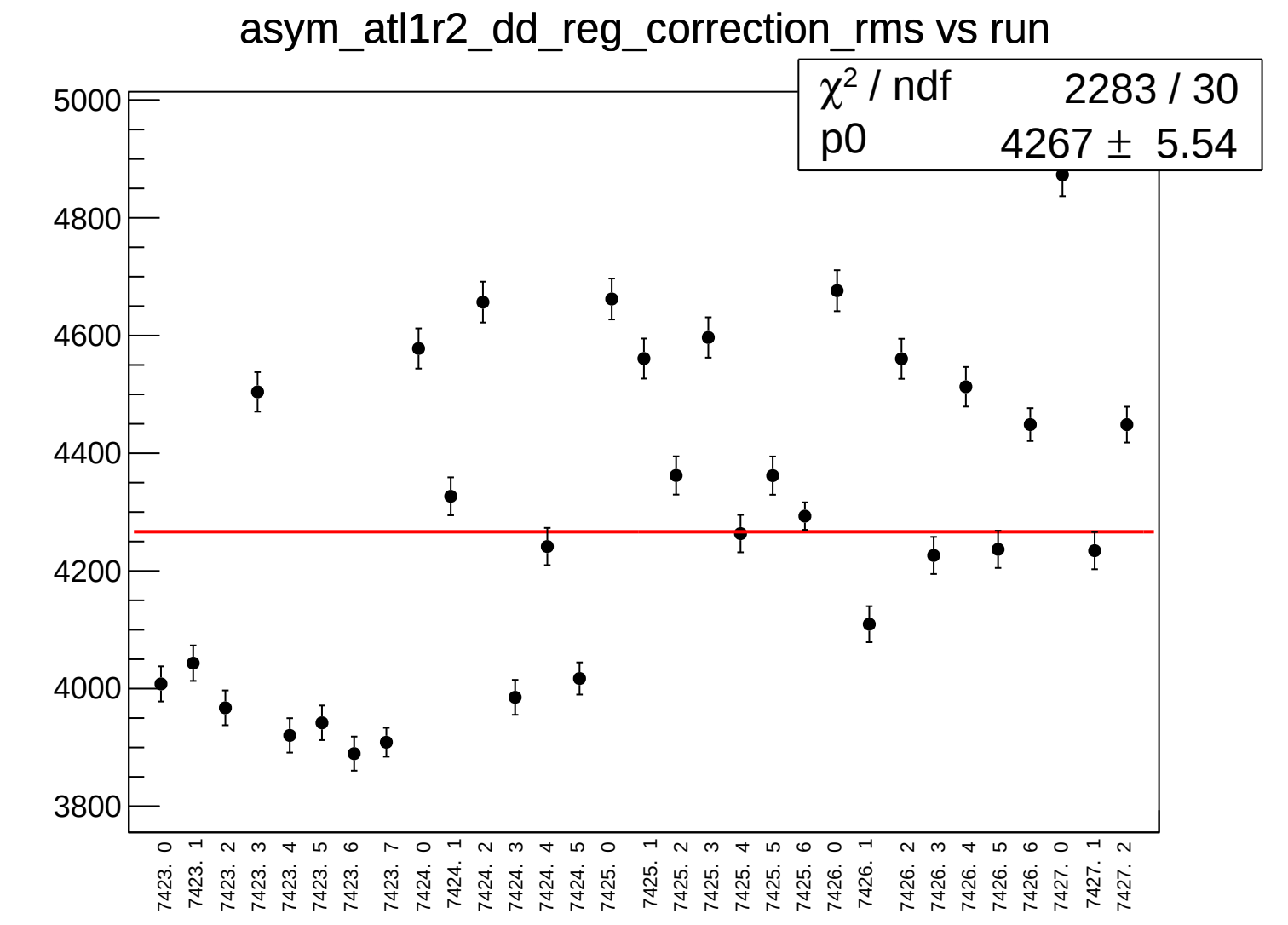

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 29.83 / 30
p0 2481 ± 3061
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1875
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

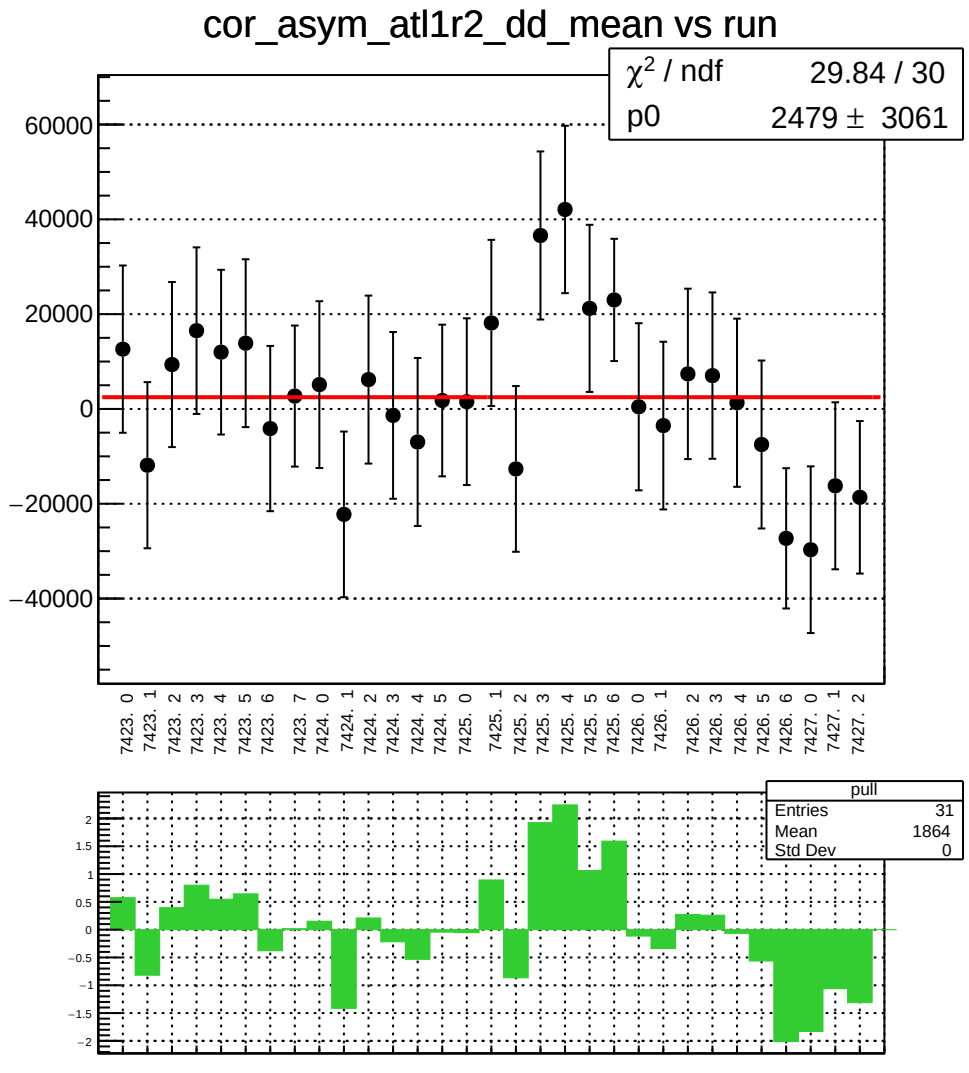

pull1D
Entries 31
Mean −0.001354
Std Dev 0.981
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

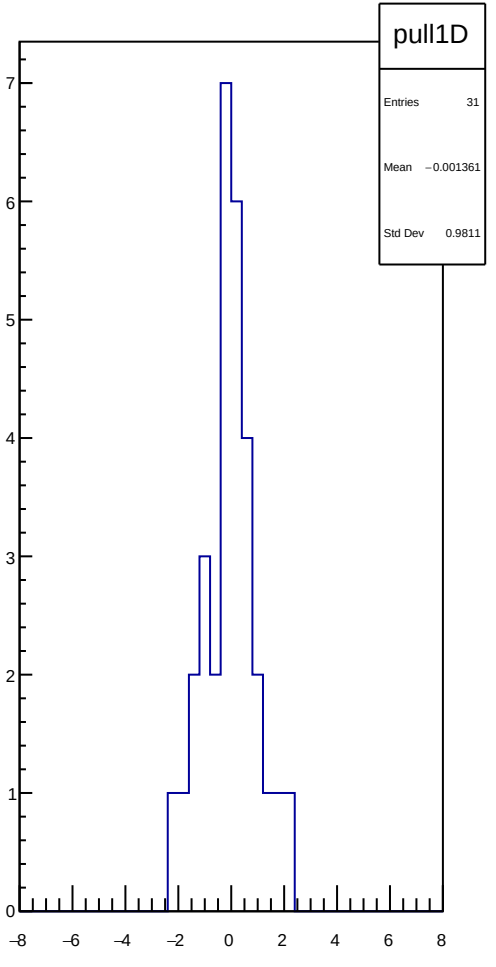

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 24.82 / 30
p0 1670 ± 2.165
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

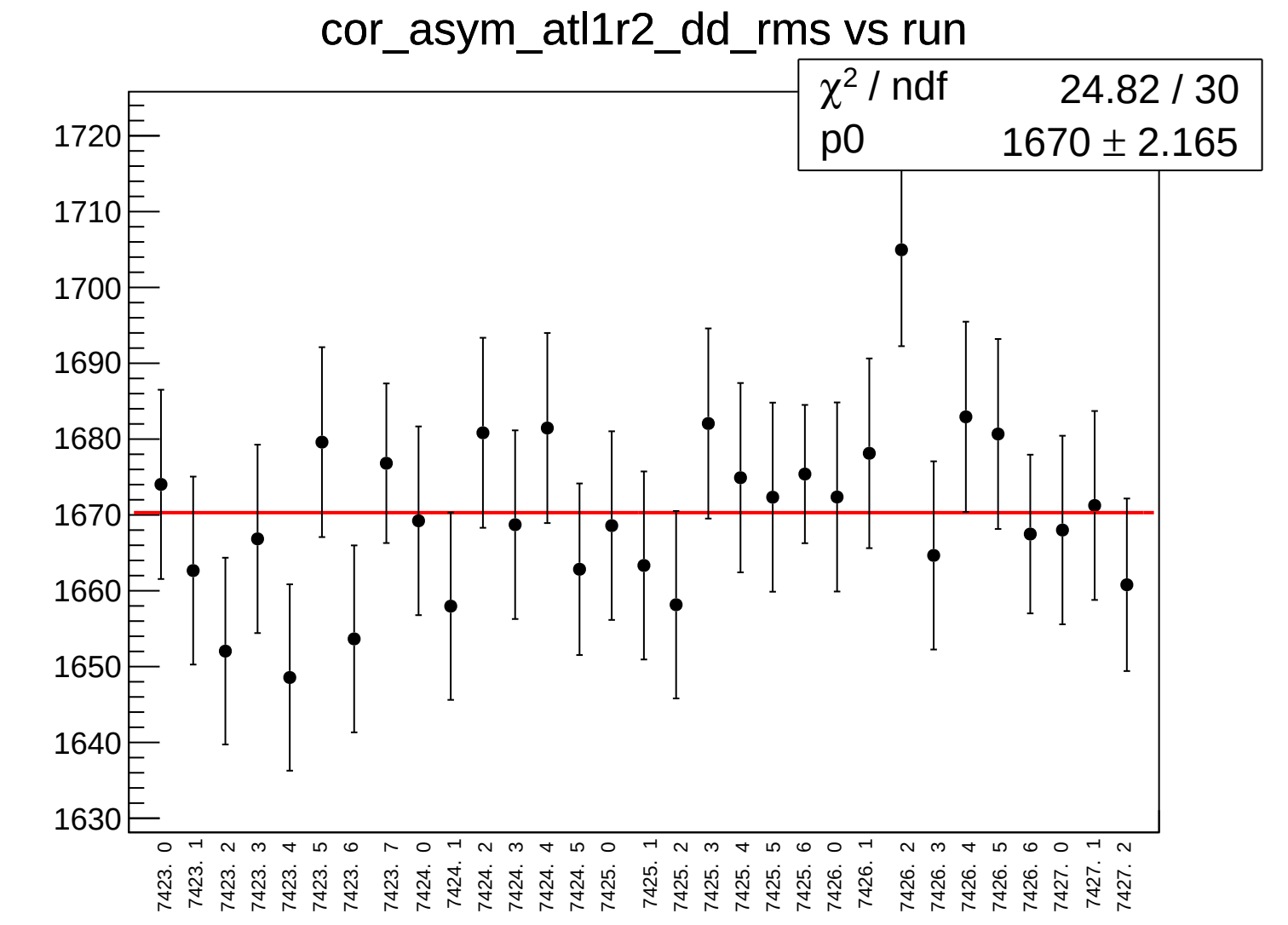

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 22.36 / 30
p0 −3850 ± 7834
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 341.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

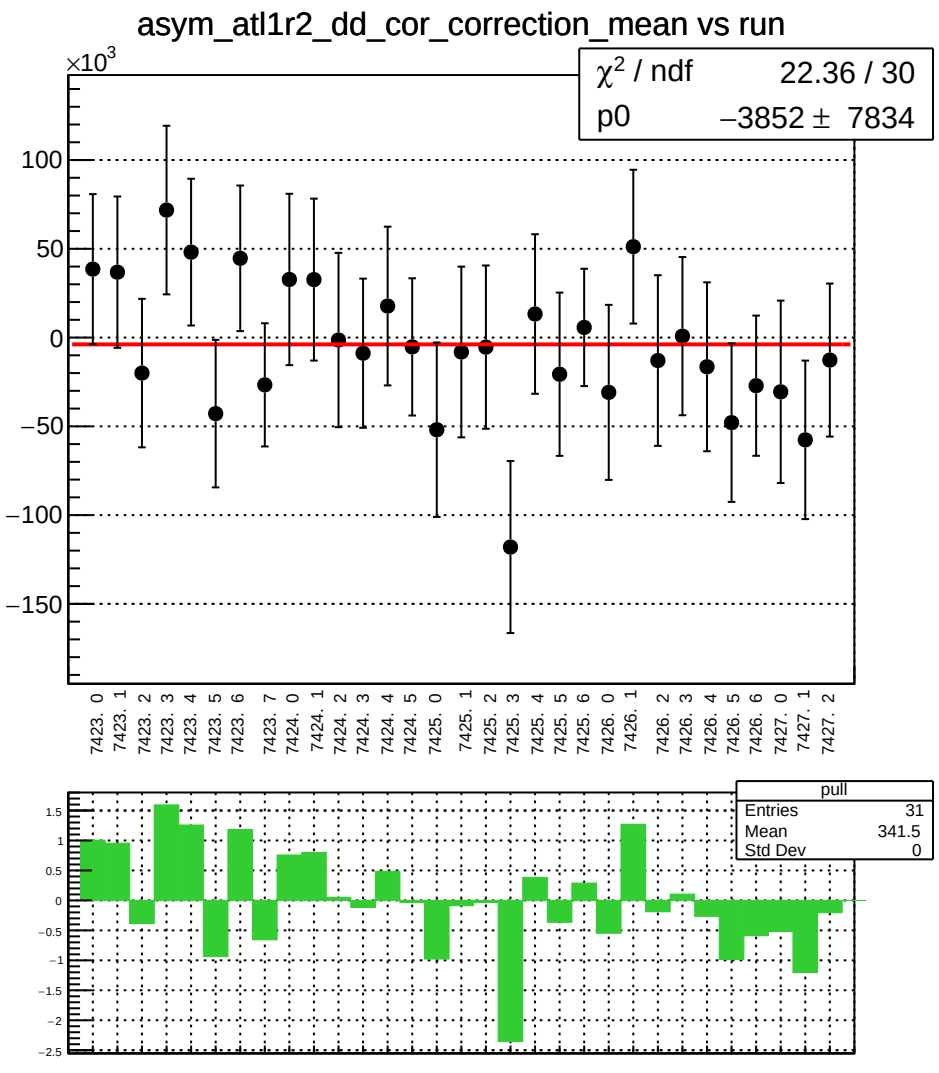

pull1D
Entries 31
Mean −0.01073
Std Dev 0.8492
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

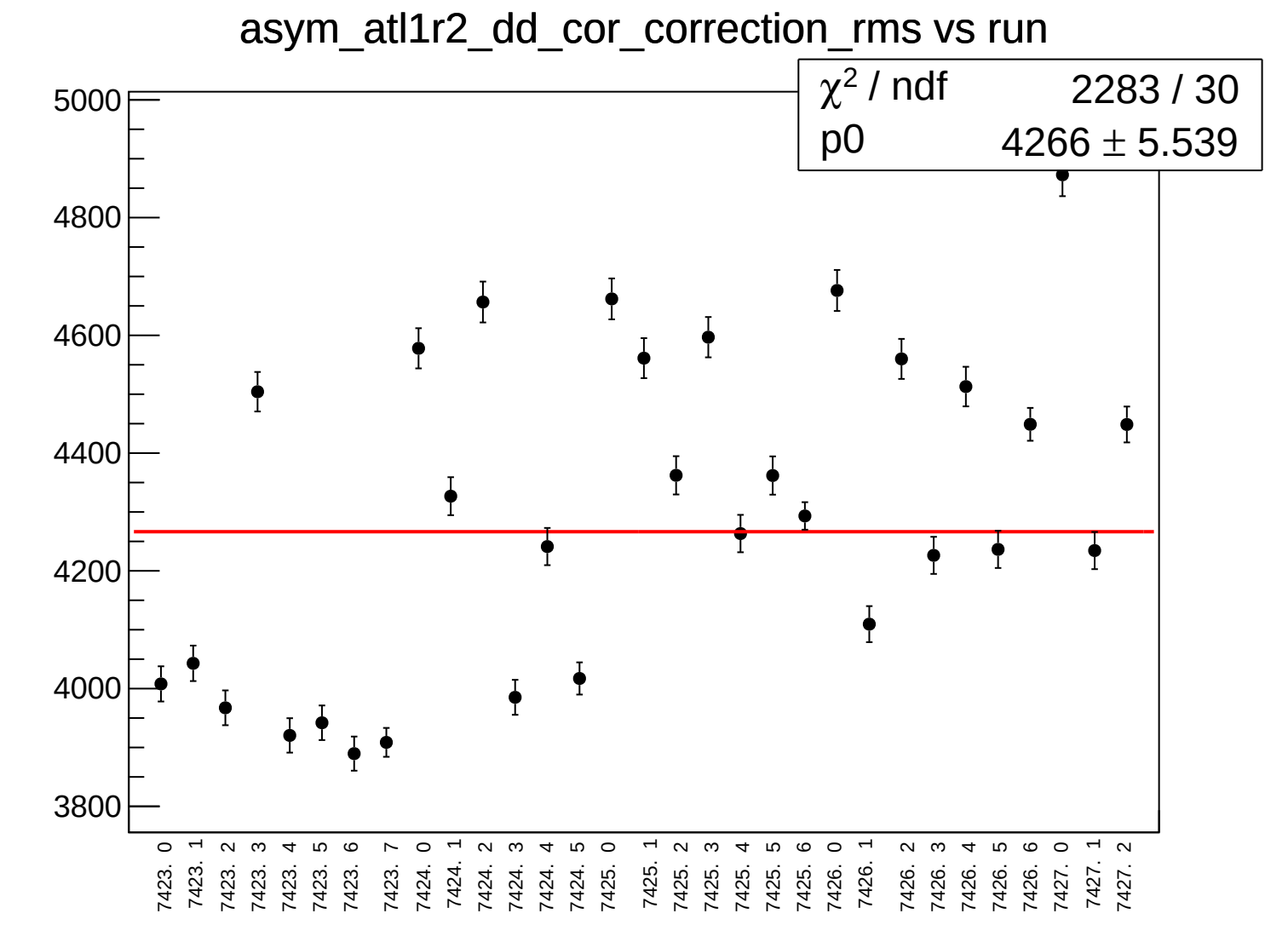

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2283 / 30
p0 4267 ± 5.54
5000
4800
4600
4400
4200
4000
3800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

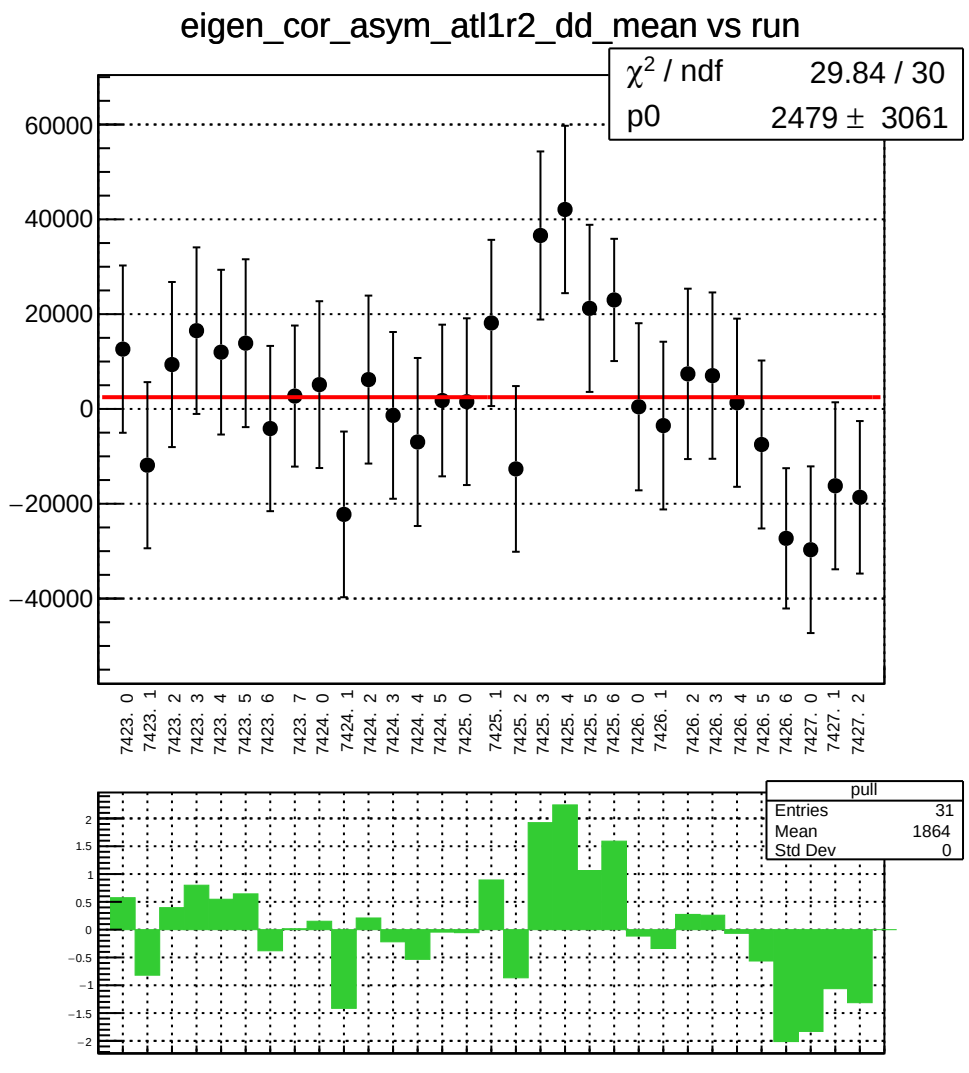

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 29.84 / 30
p0 2479 ± 3061
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1864
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

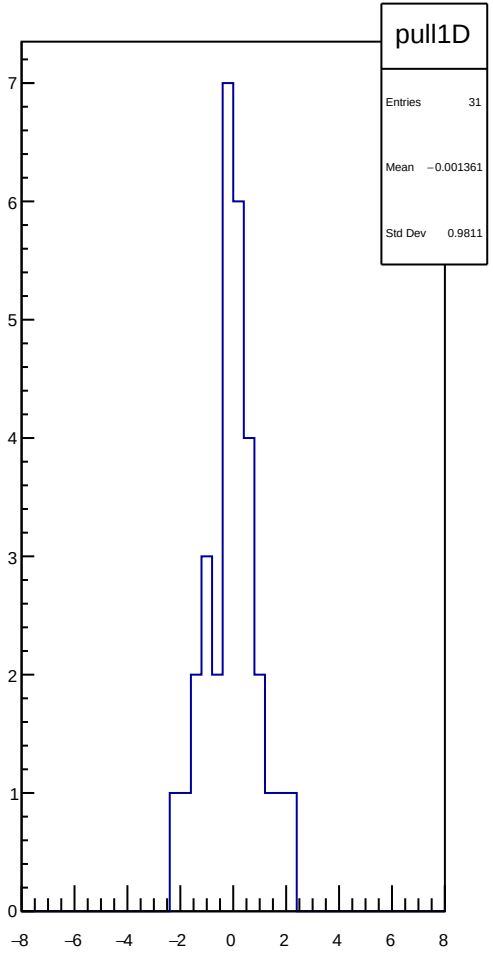

pull1D
Entries 31
Mean −0.001361
Std Dev 0.9811
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

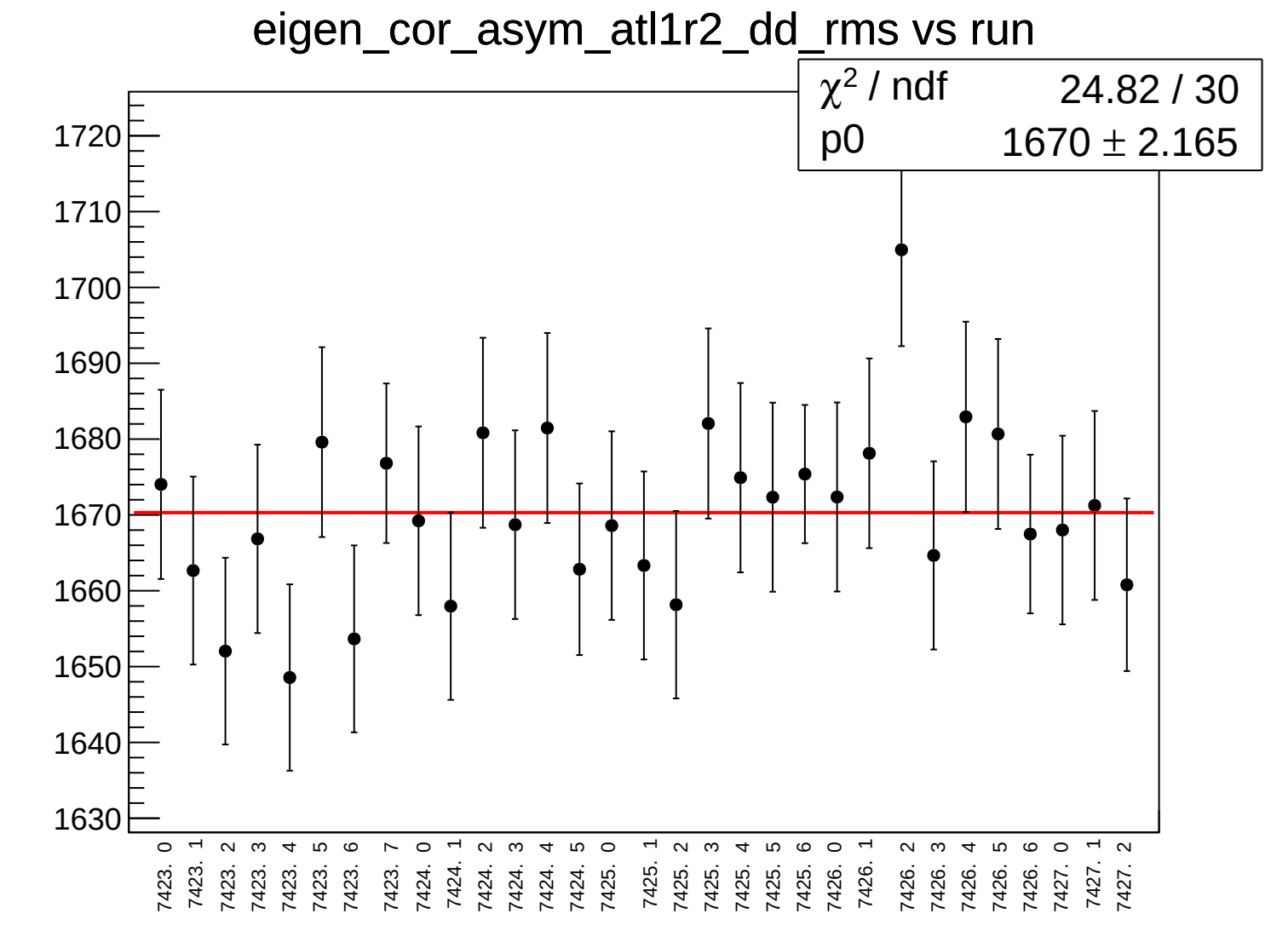

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 24.82 / 30
p0 1670 ± 2.165
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

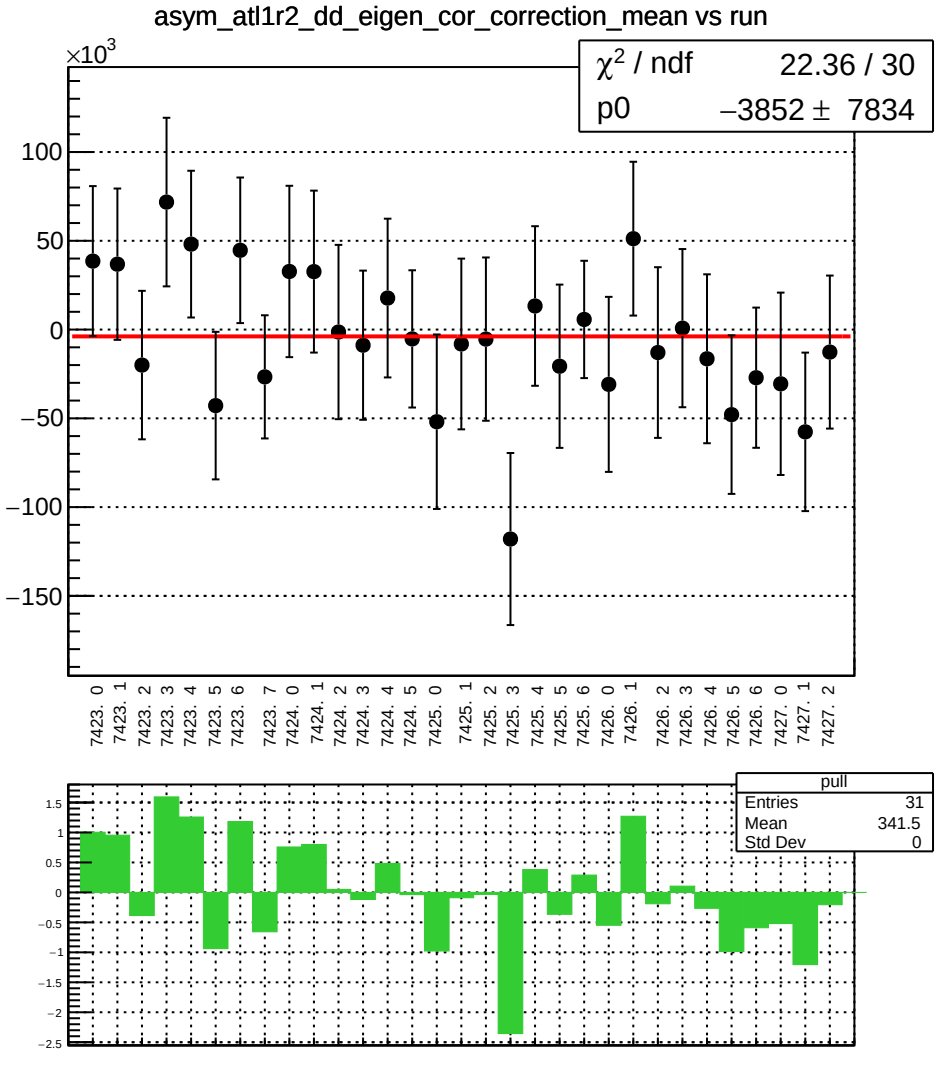

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 22.36 / 30
p0 −3852 ± 7834
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 341.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01073
Std Dev 0.8491
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

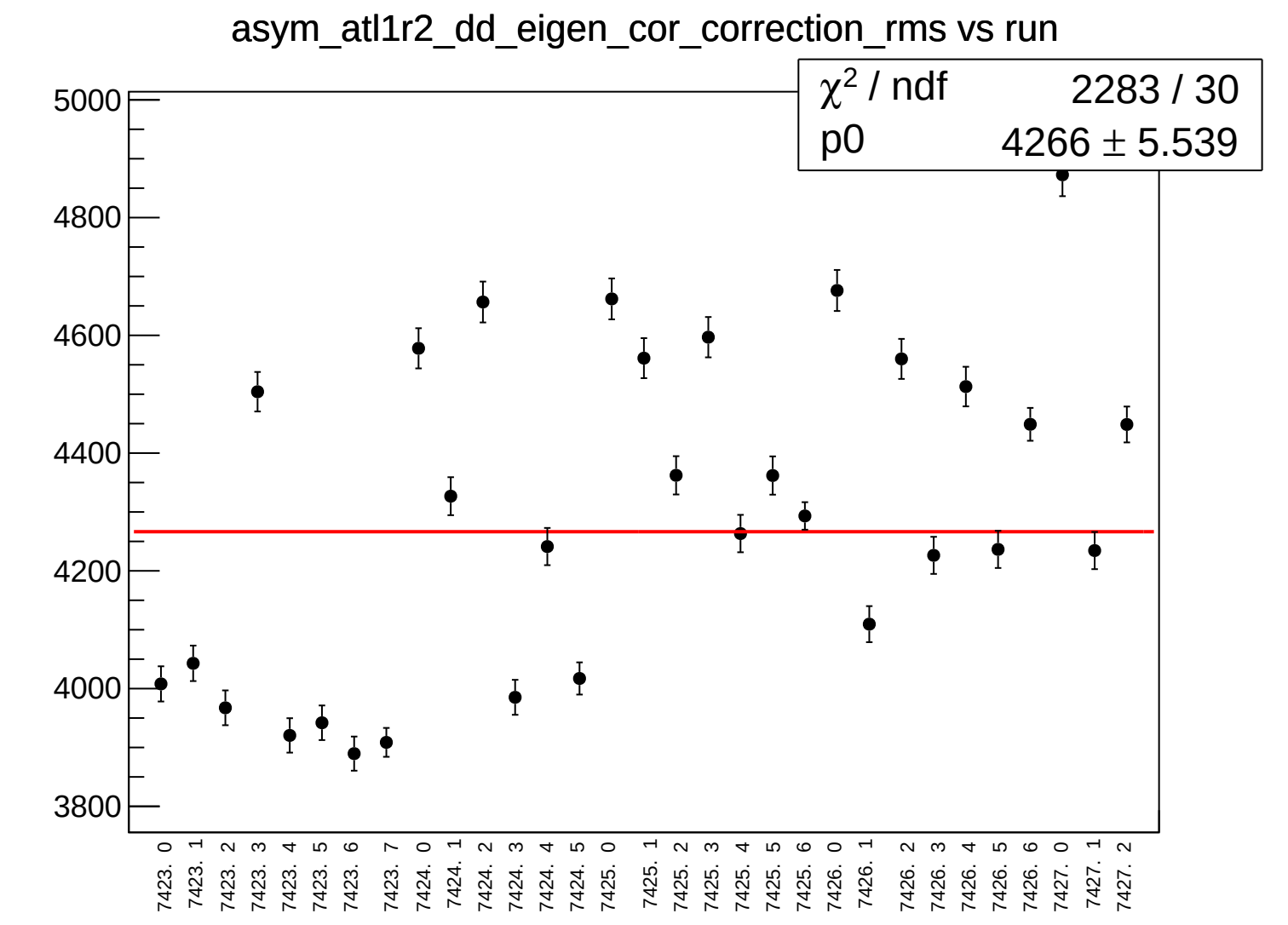

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2283 / 30
p0 4266 ± 5.539
5000
4800
4600
4400
4200
4000
3800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

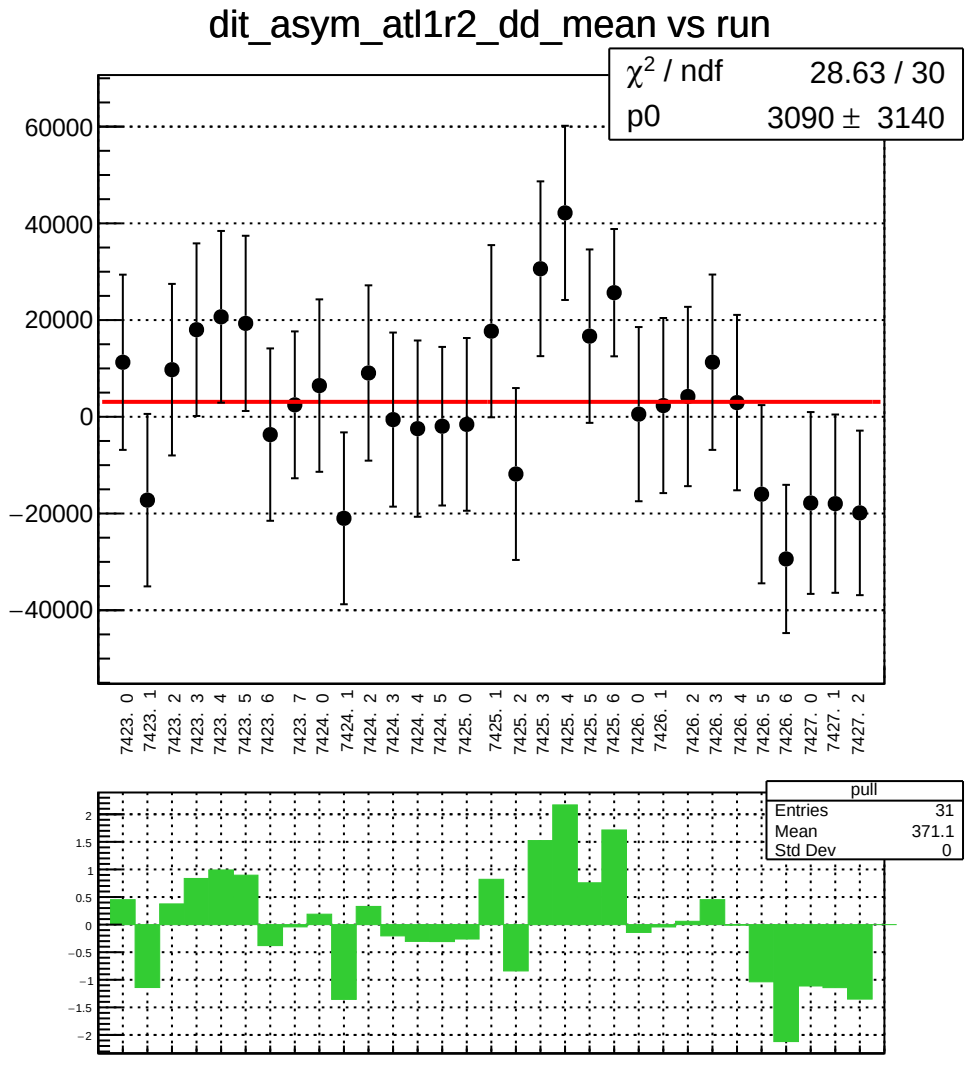

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 29.84 / 30
p0 2479 ± 3061
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1864
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

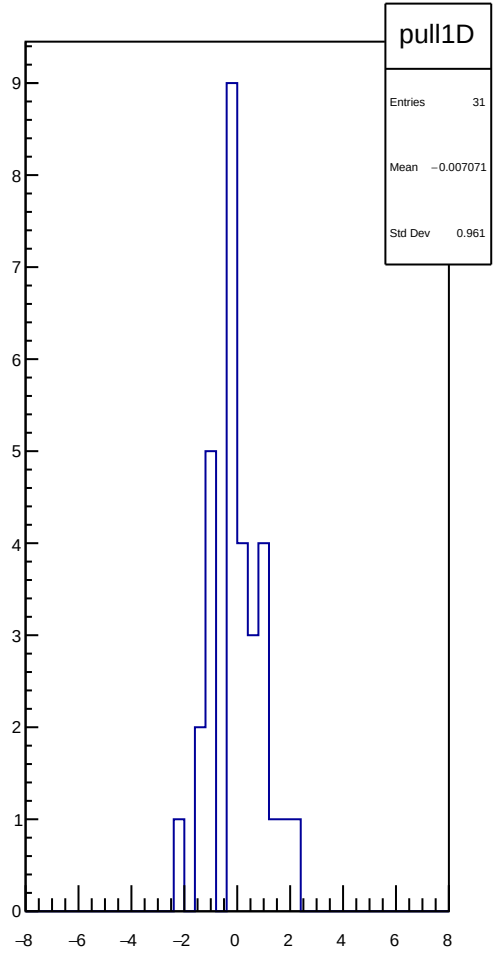

pull1D
Entries 31
Mean −0.001361
Std Dev 0.9811
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

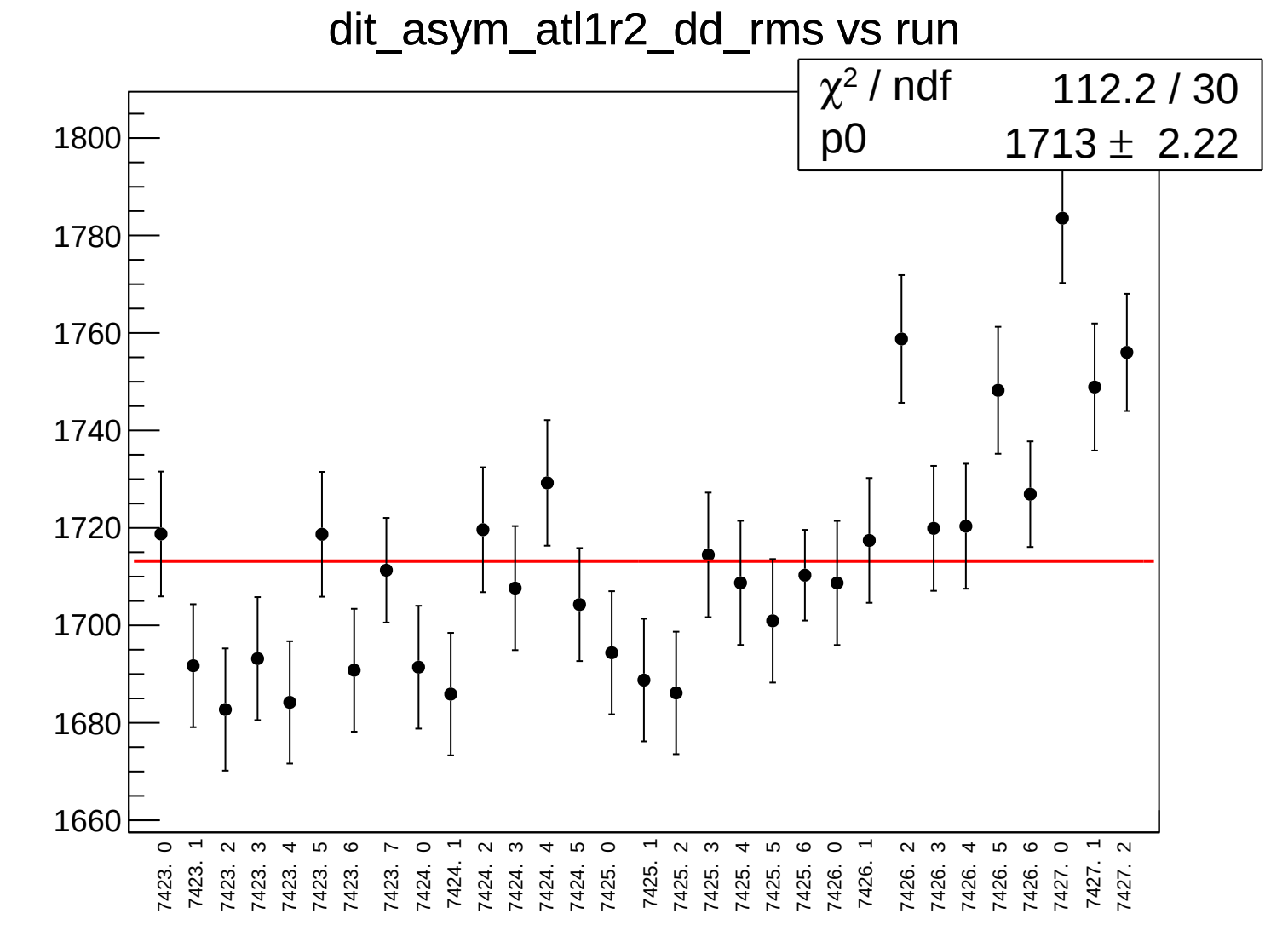

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 24.82 / 30
p0 1670 ± 2.165
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

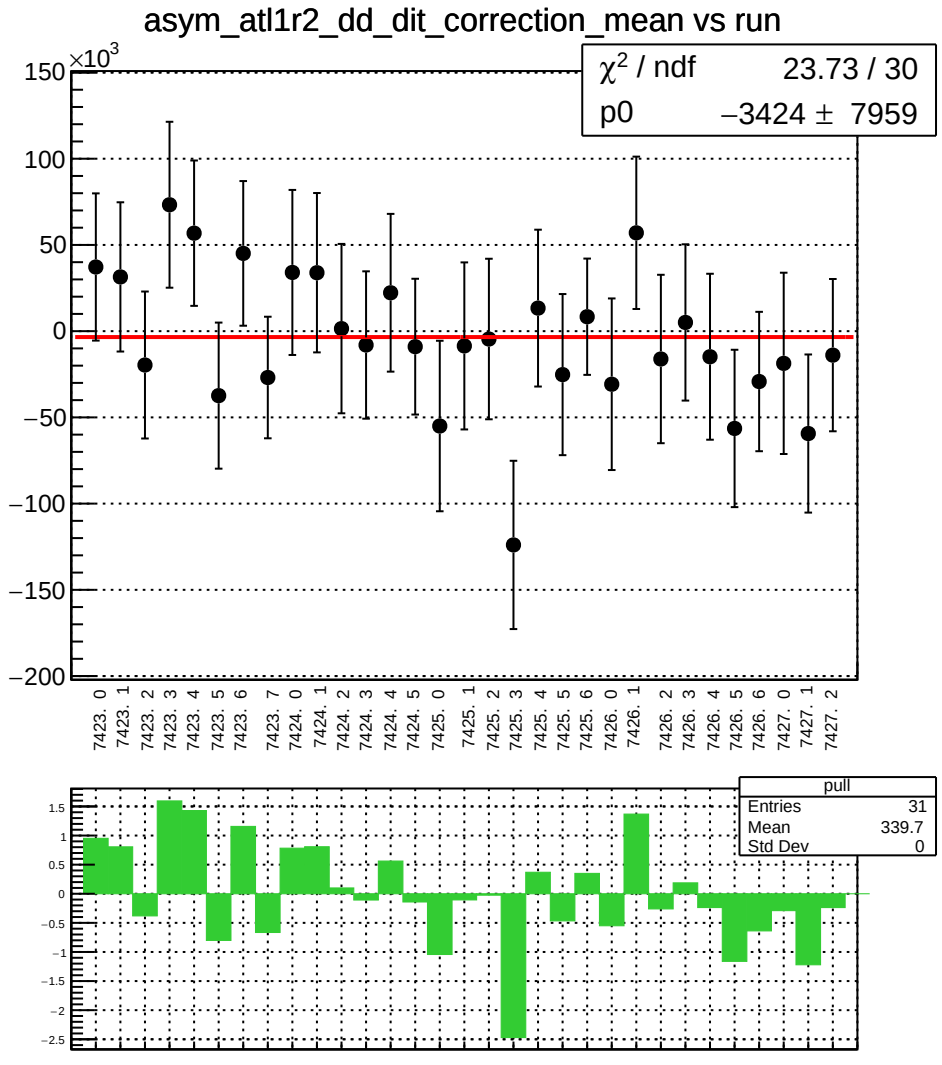

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 22.36 / 30
p0 −3852 ± 7834
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 341.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01073
Std Dev 0.8491
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

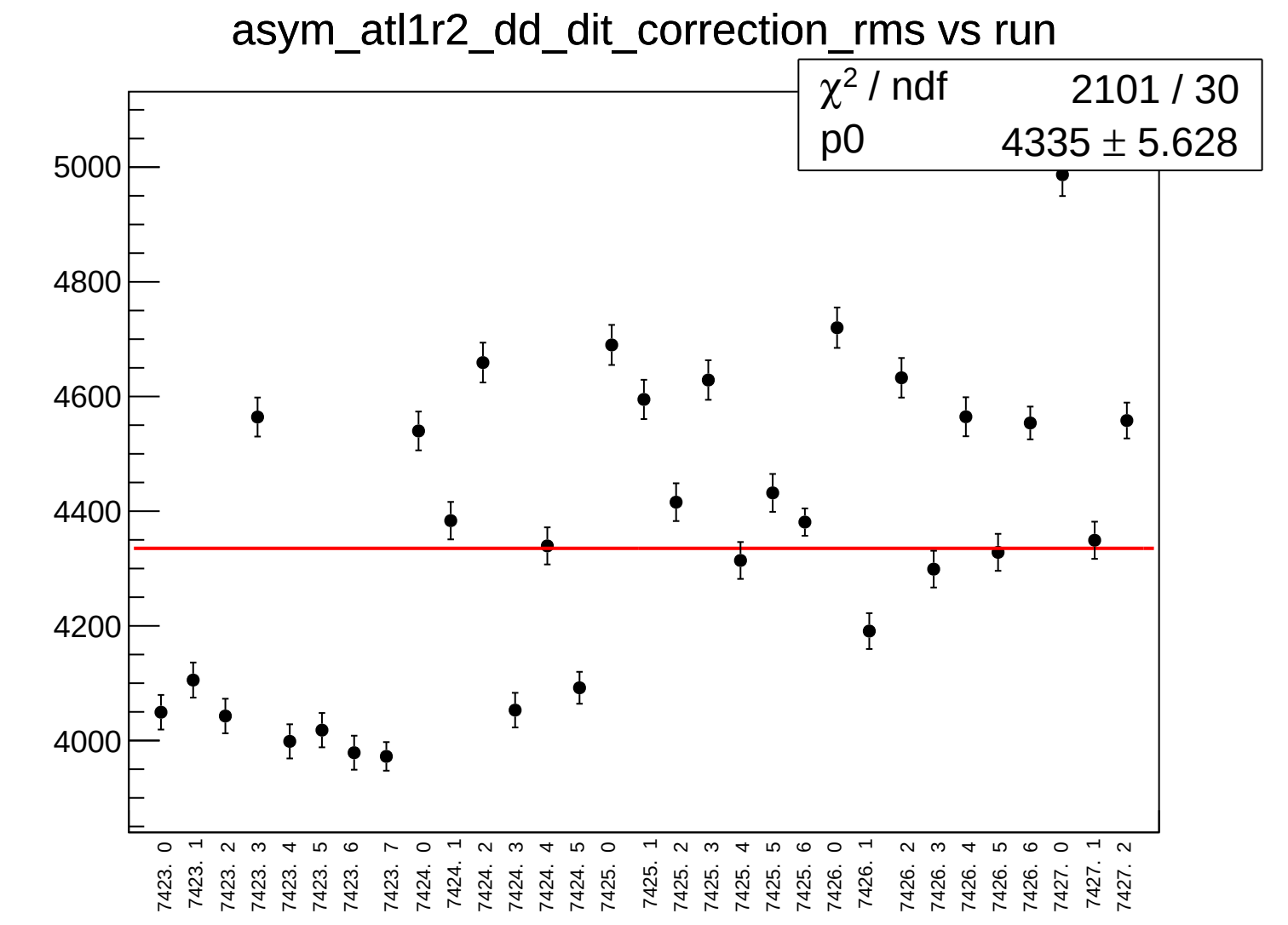

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2283 / 30
p0 4266 ± 5.539
5000
4800
4600
4400
4200
4000
3800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

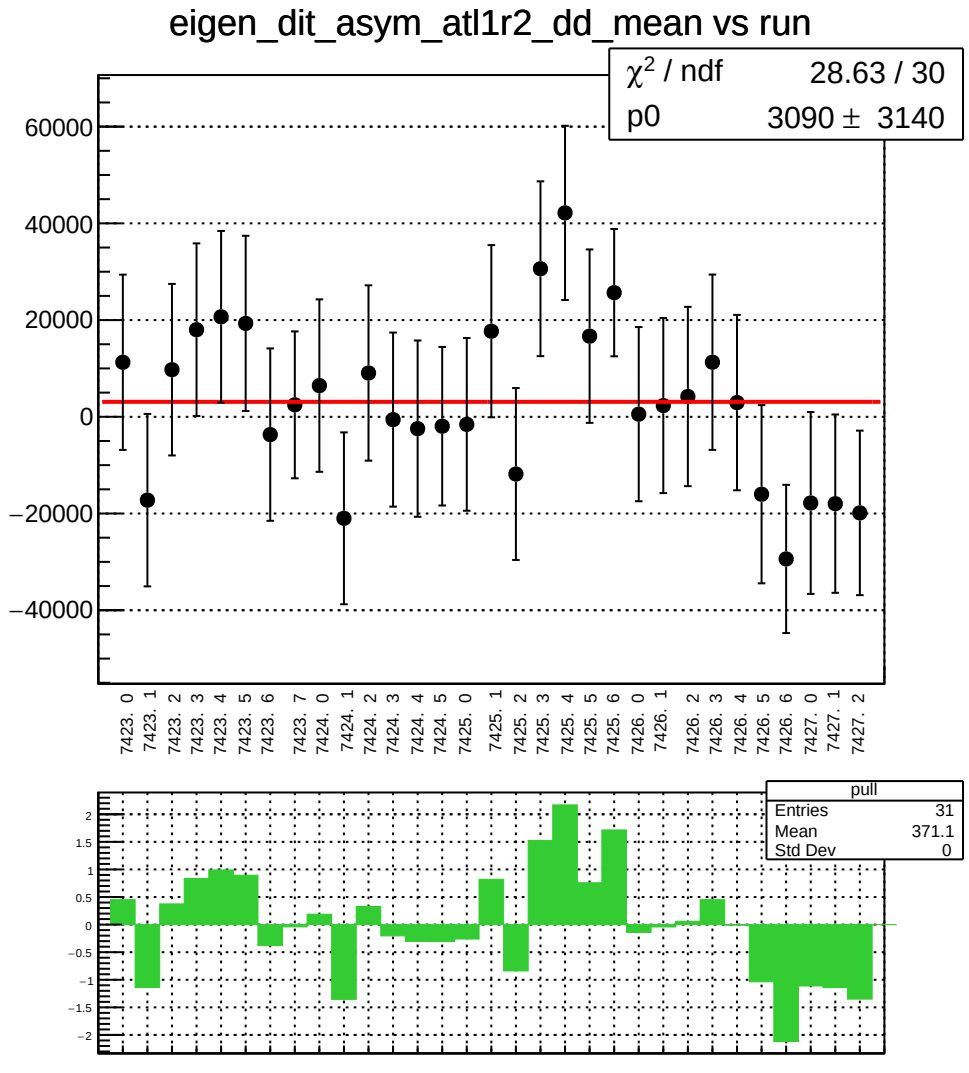

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 28.63 / 30
p0 3090 ± 3140
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 371.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

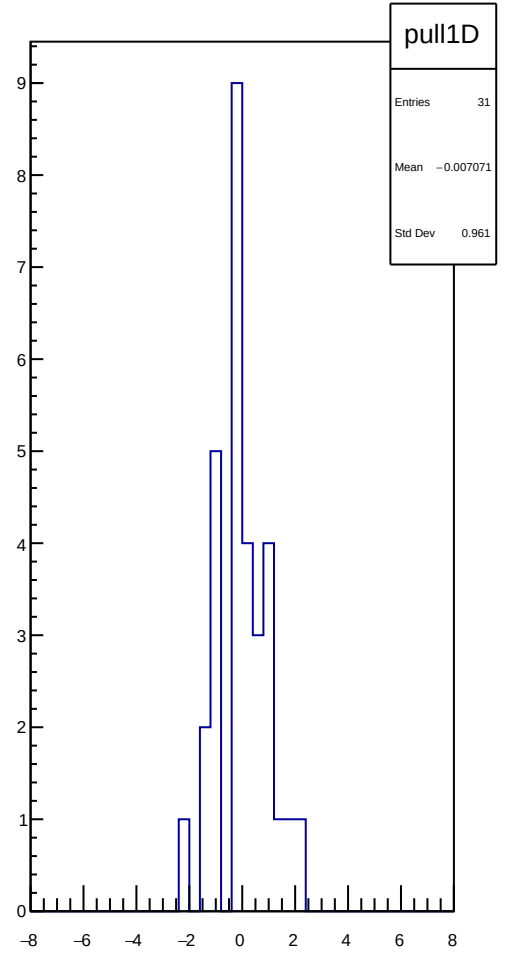

pull1D
Entries 31
Mean −0.007071
Std Dev 0.961
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

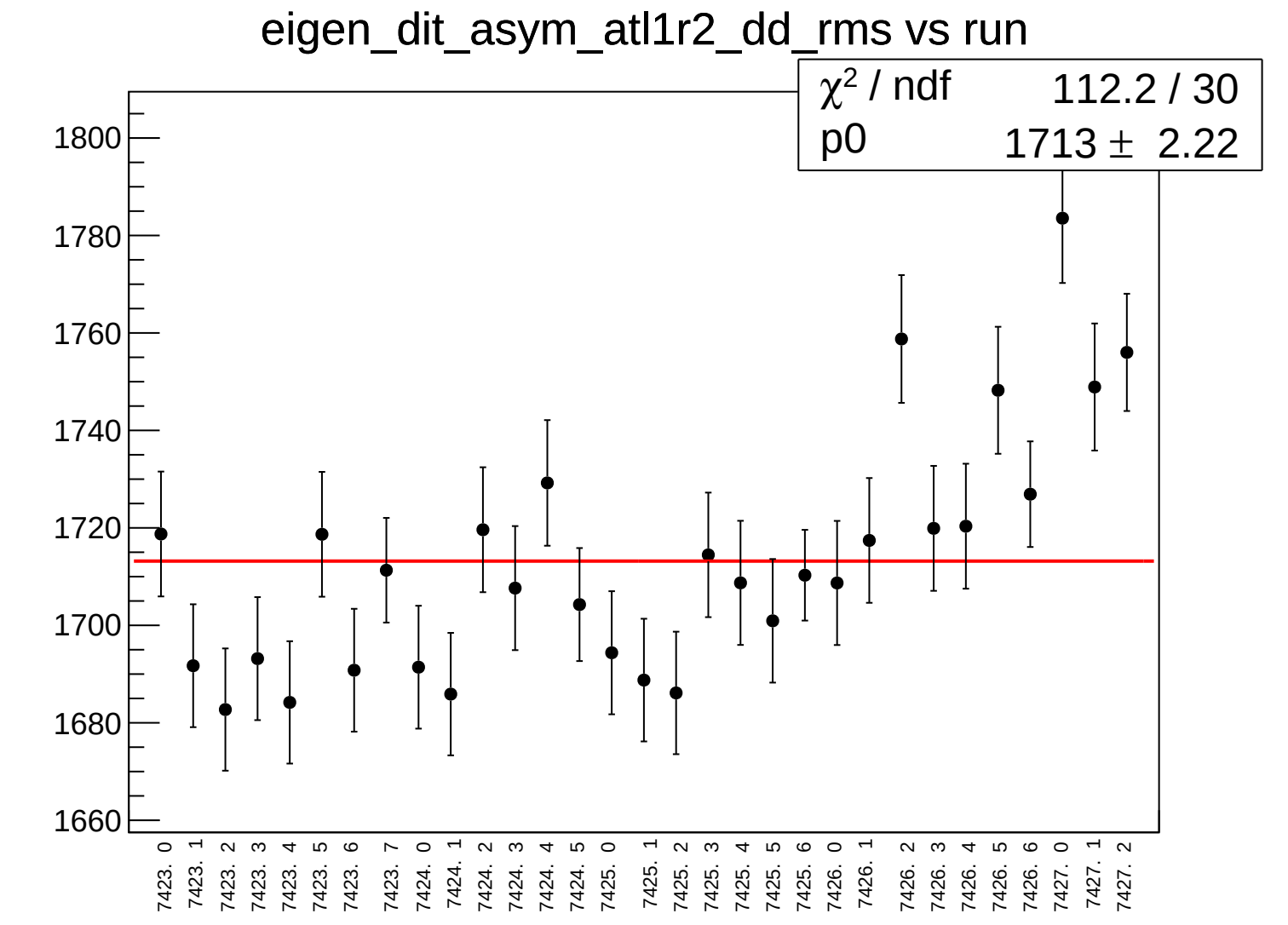

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 112.2 / 30
p0 1713 ± 2.22
1800
1780
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

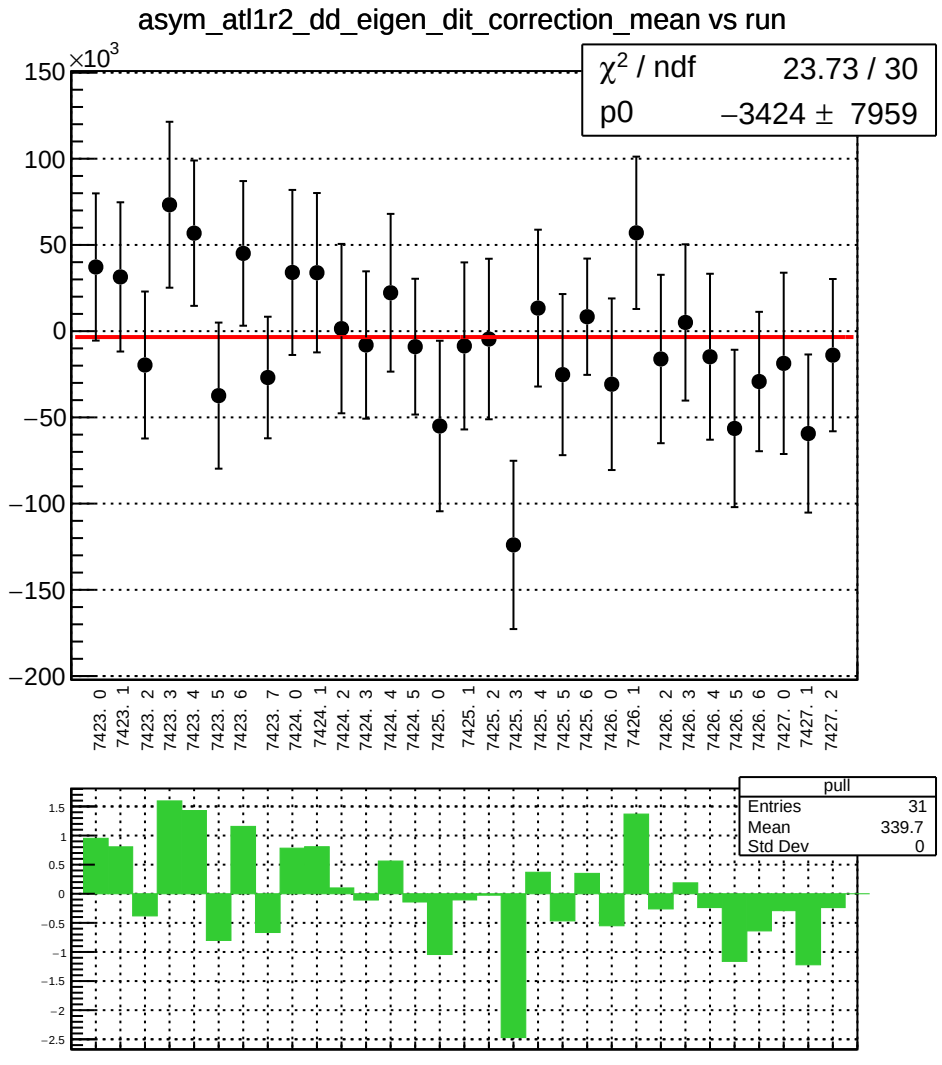

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 23.73 / 30
p0 −3424 ± 7959
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 339.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01081
Std Dev 0.8749
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

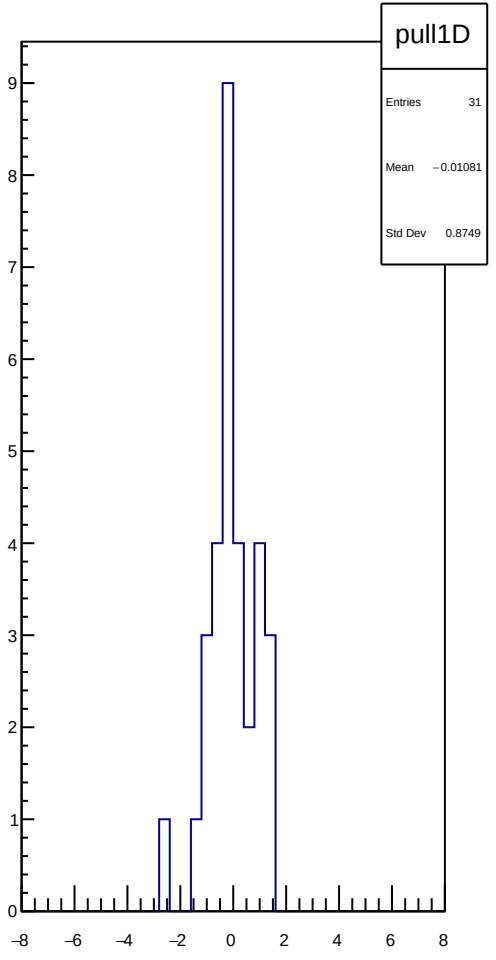

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 2101 / 30
p0 4335 ± 5.628
5000
4800
4600
4400
4200
4000
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

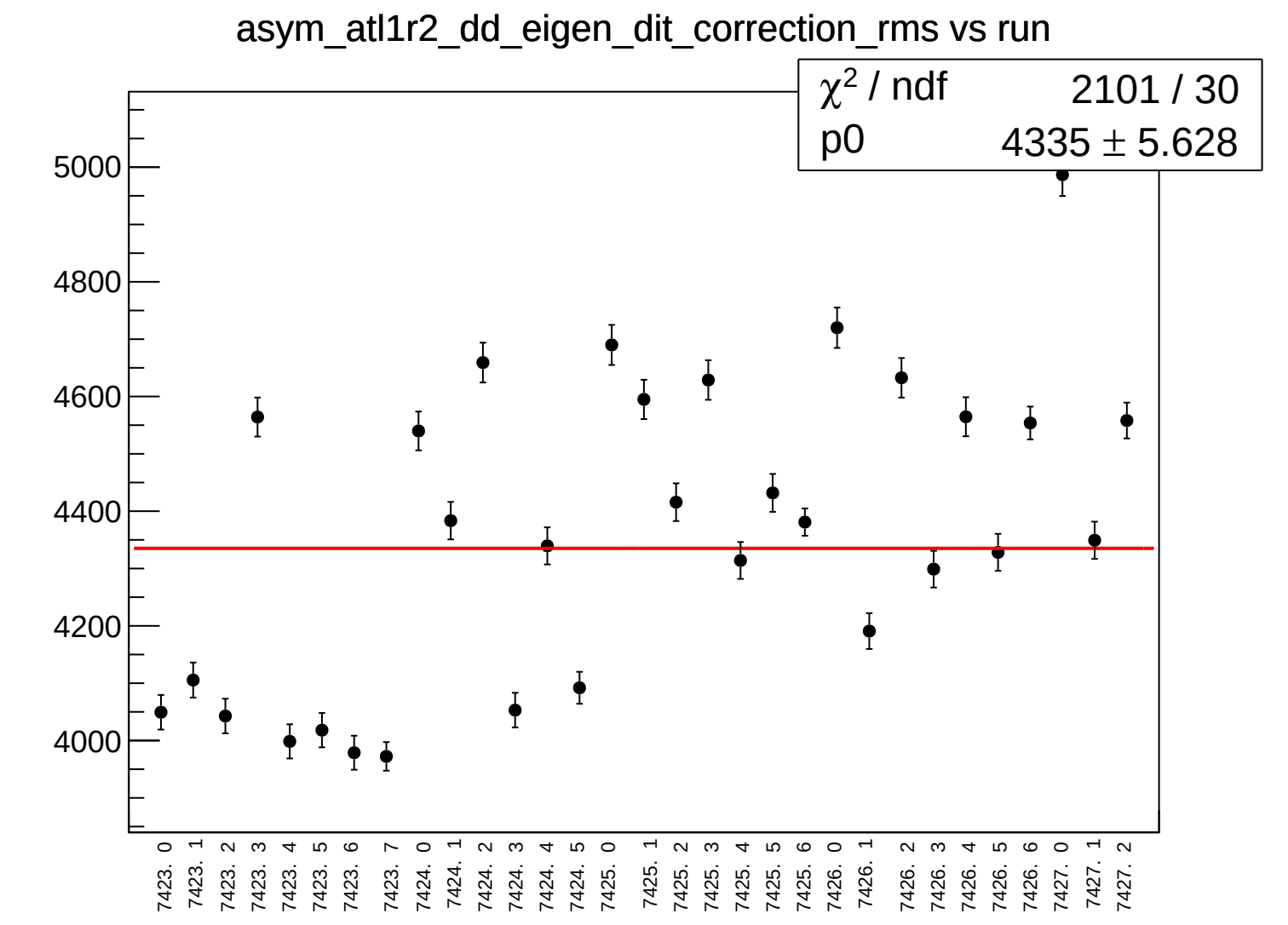

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 28.63 / 30
p0 3090 ± 3140
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 371.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

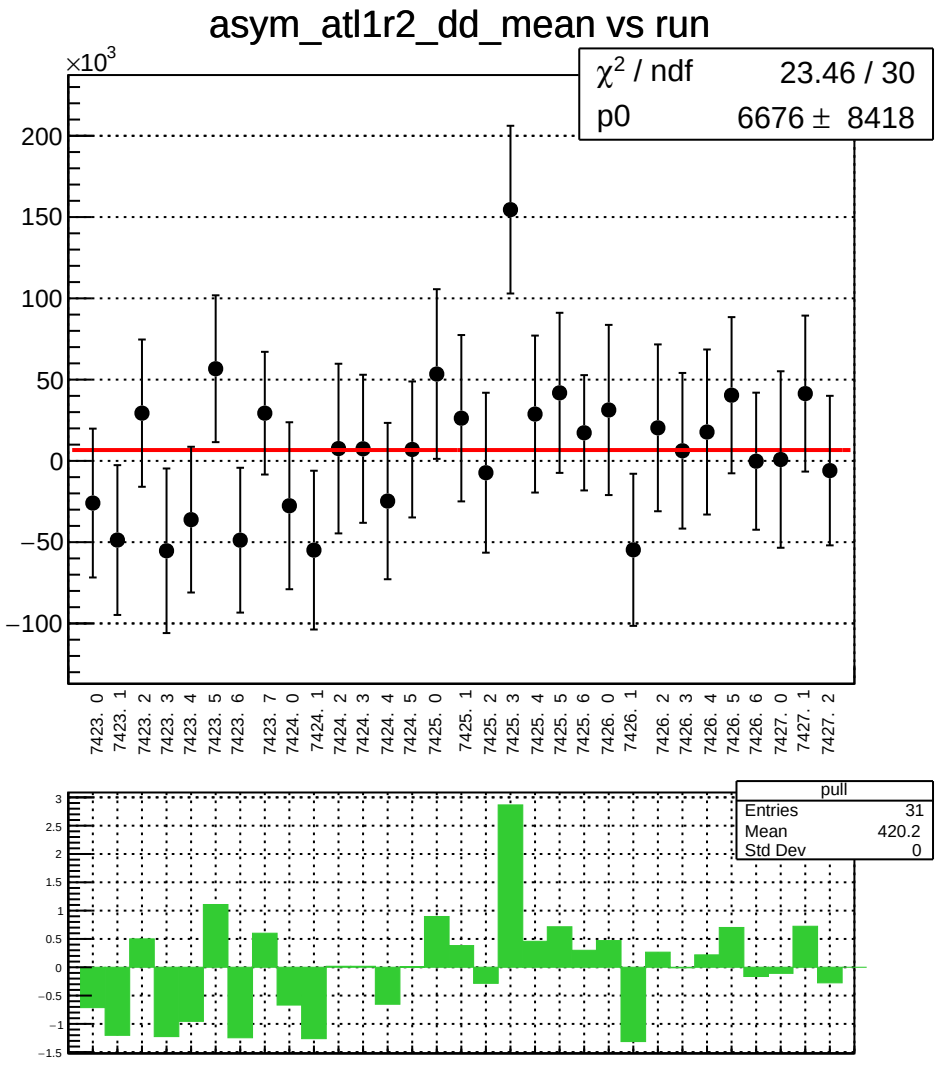

pull1D
Entries 31
Mean −0.007071
Std Dev 0.961
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

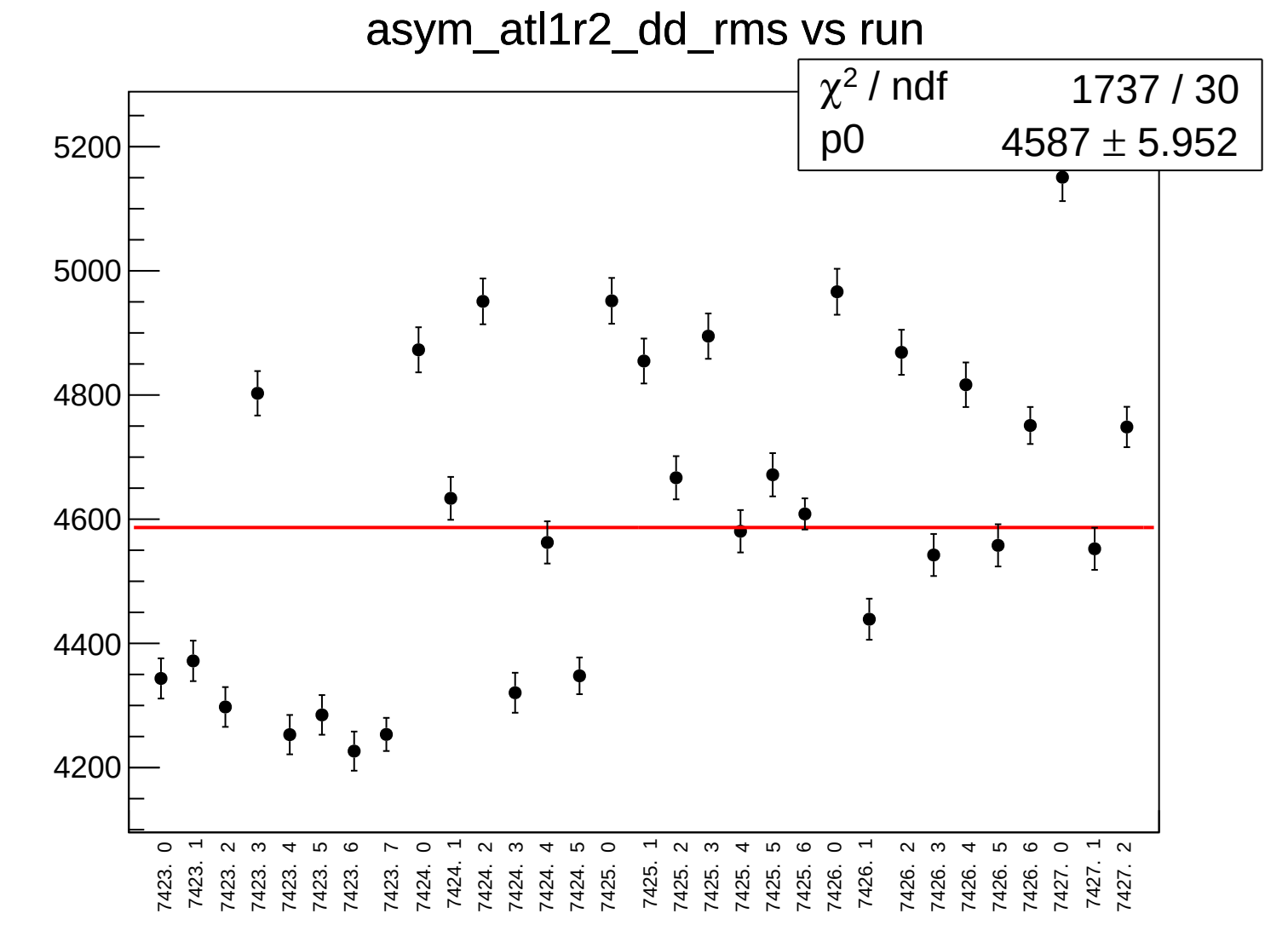

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 112.2 / 30
p0 1713 ± 2.22
1800
1780
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

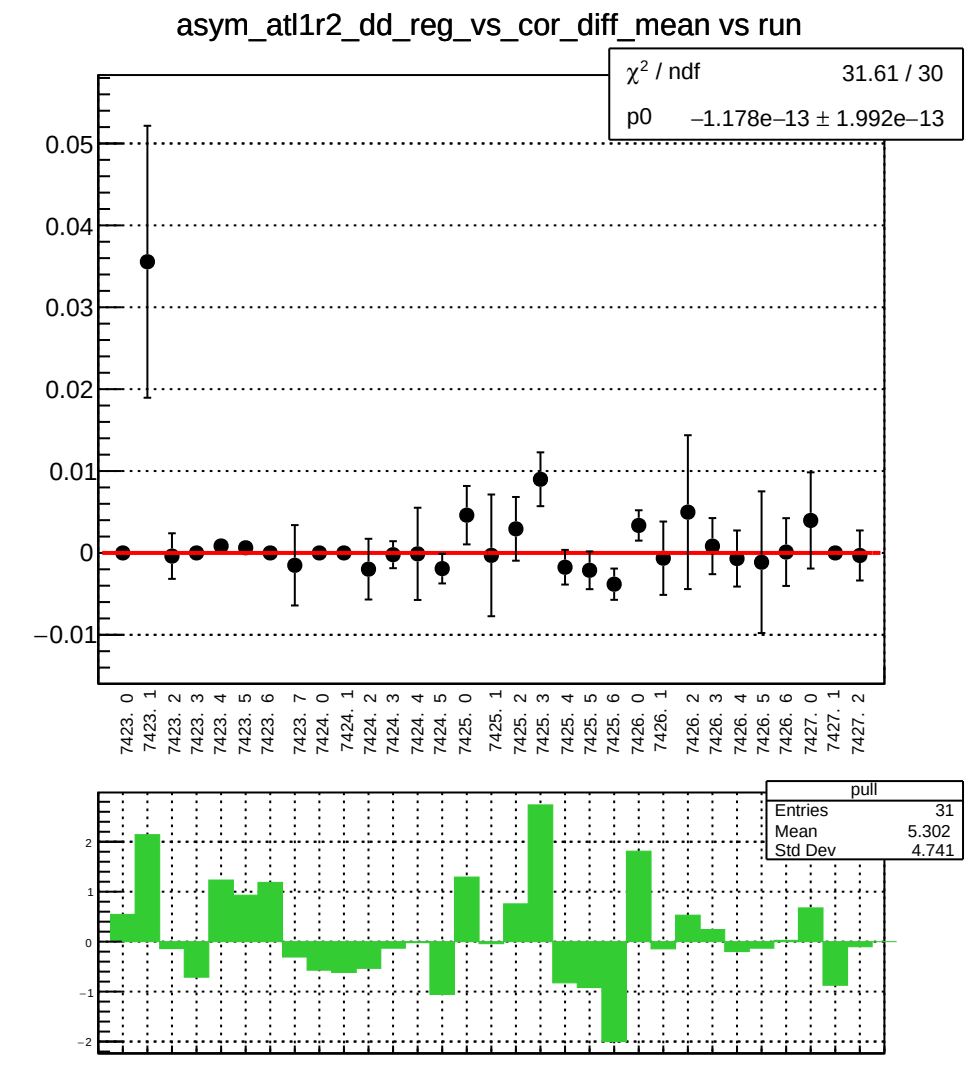

asym_atl1r2_dd_eigen_dit_correction_mean vs run
χ² / ndf 23.73 / 30
p0 −3424 ± 7959
×10³
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 339.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

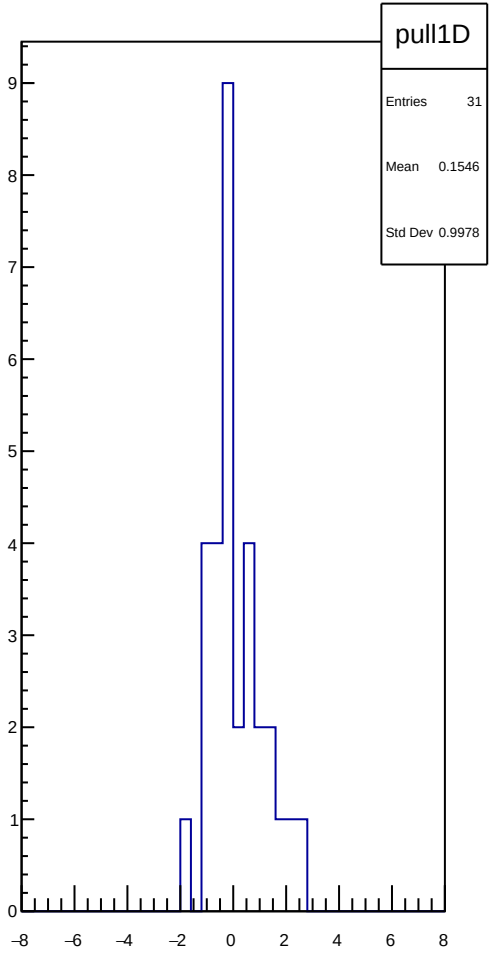

pull1D
Entries 31
Mean −0.01081
Std Dev 0.8749
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

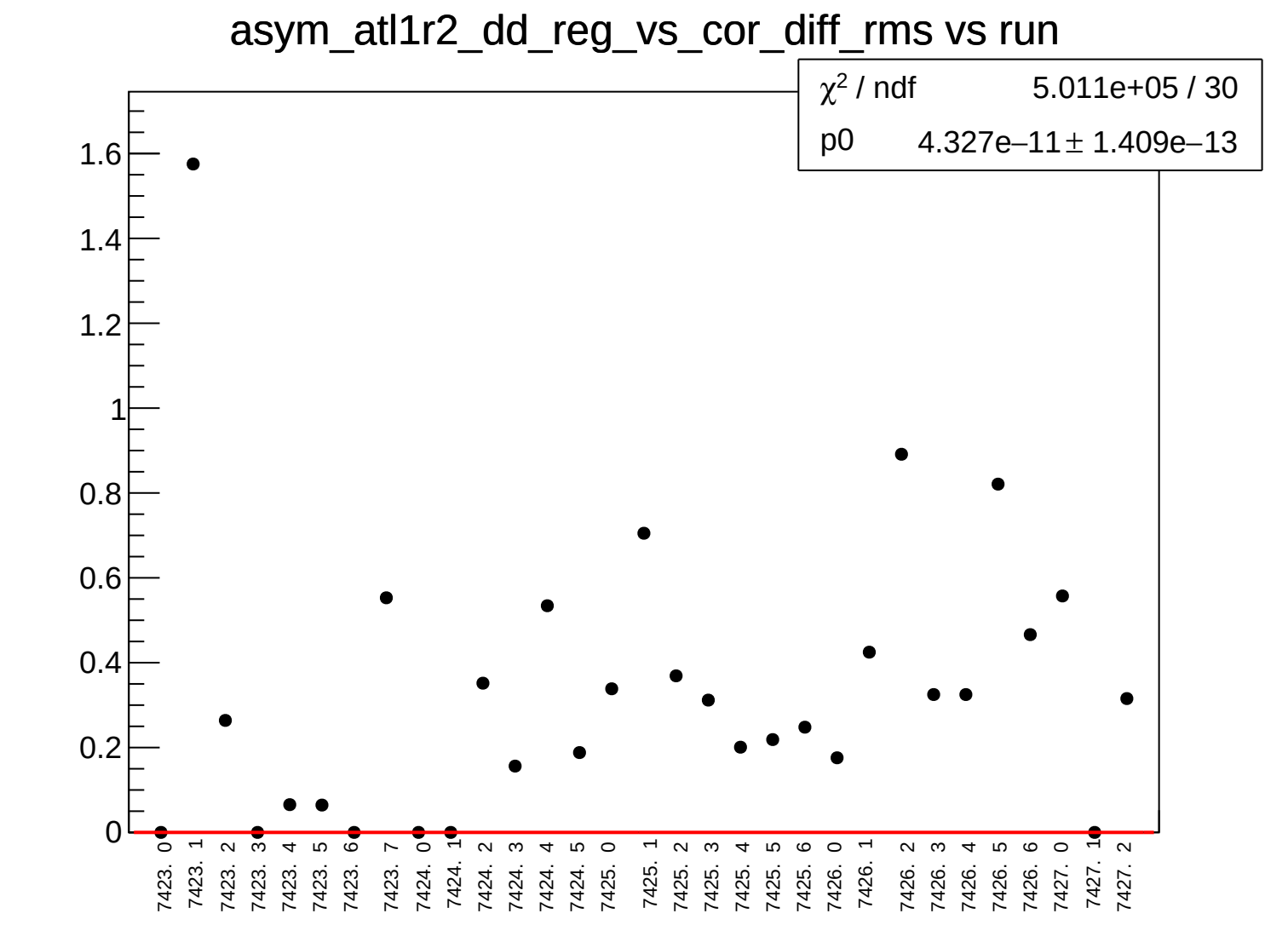

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2101 / 30
p0 4335 ± 5.628
5000
4800
4600
4400
4200
4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

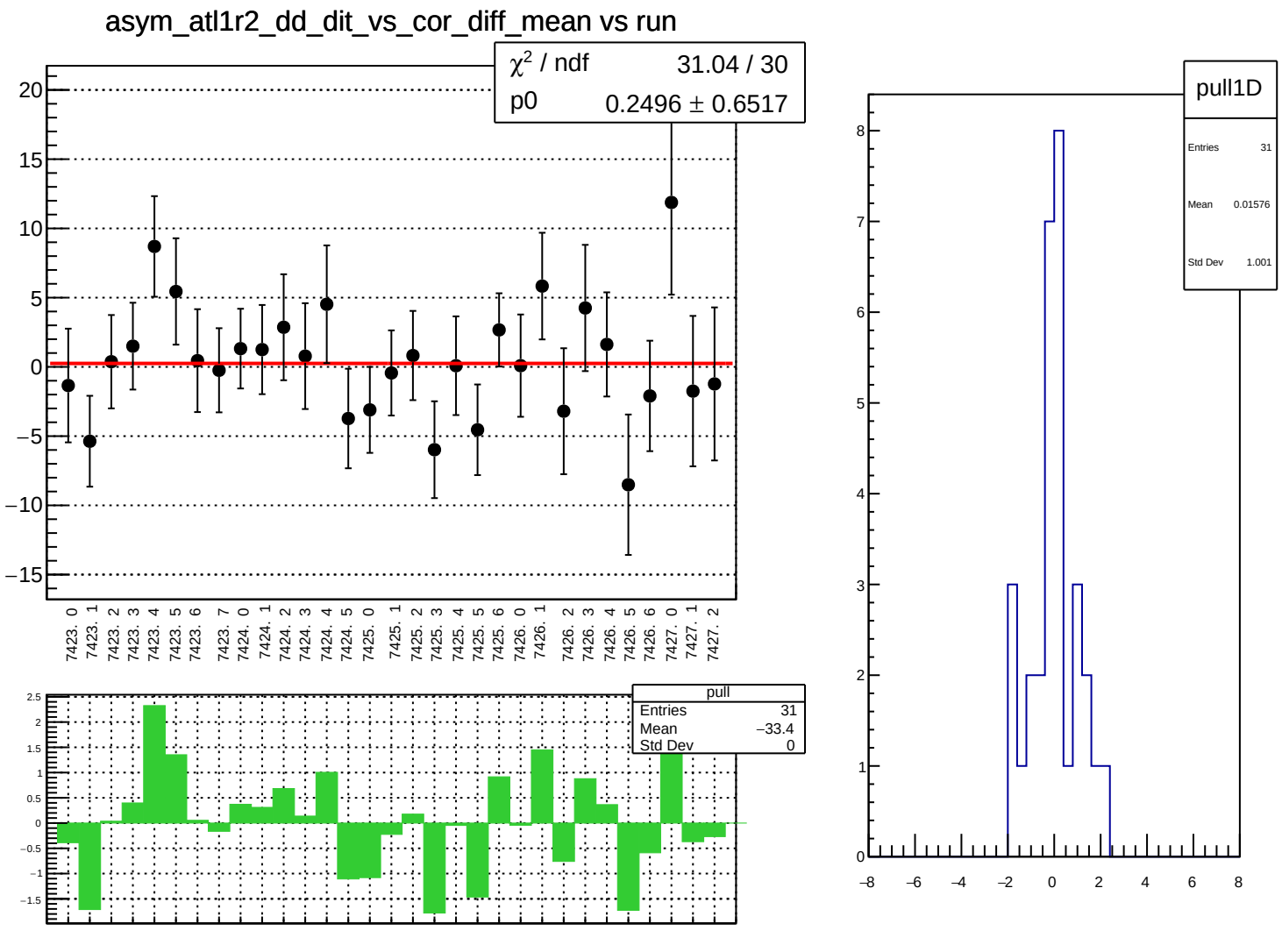

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 23.46 / 30
p0 6676 ± 8418
200
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 420.2
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.005903
Std Dev 0.8699
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

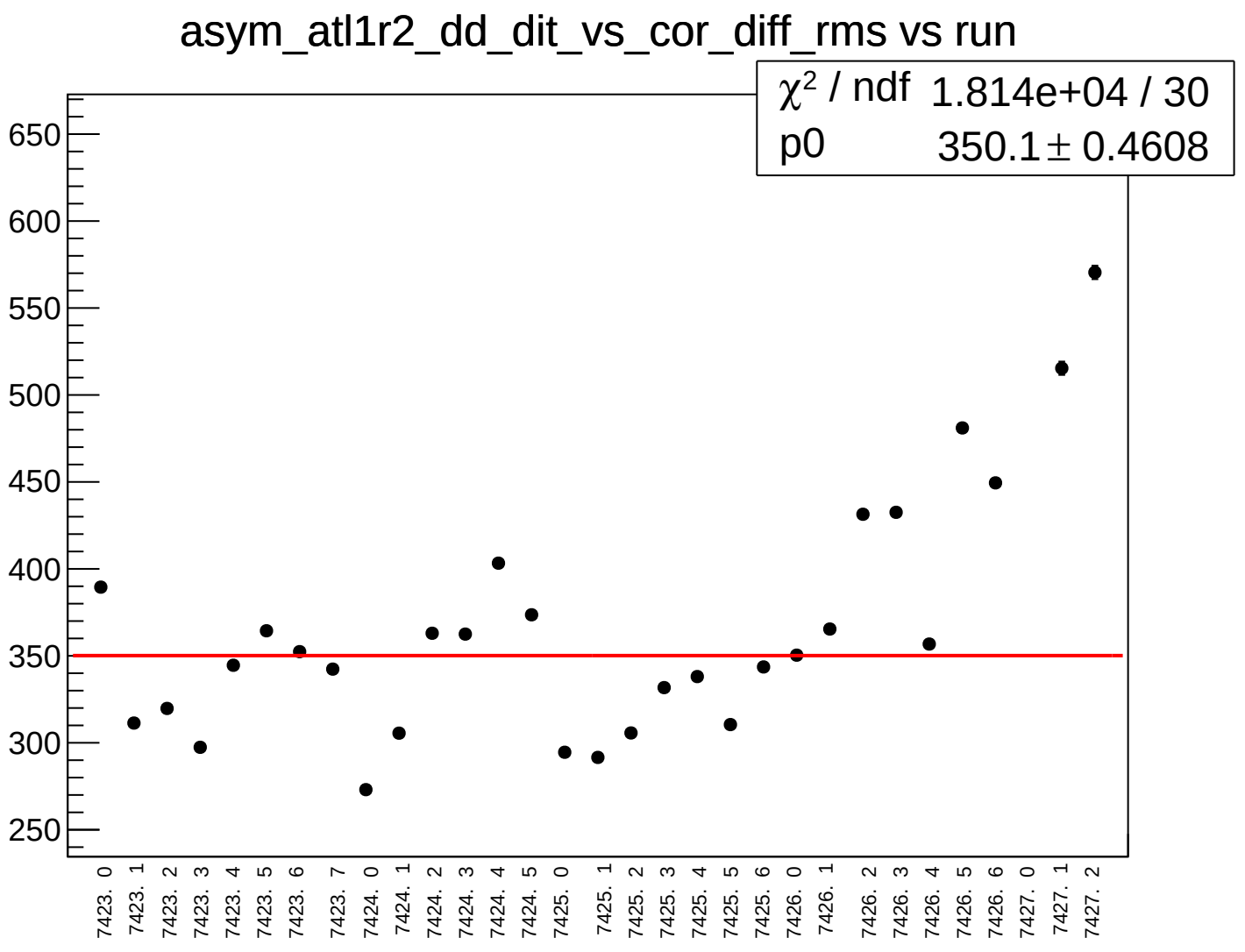

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1737 / 30
p0 4587 ± 5.952
5200
5000
4800
4600
4400
4200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

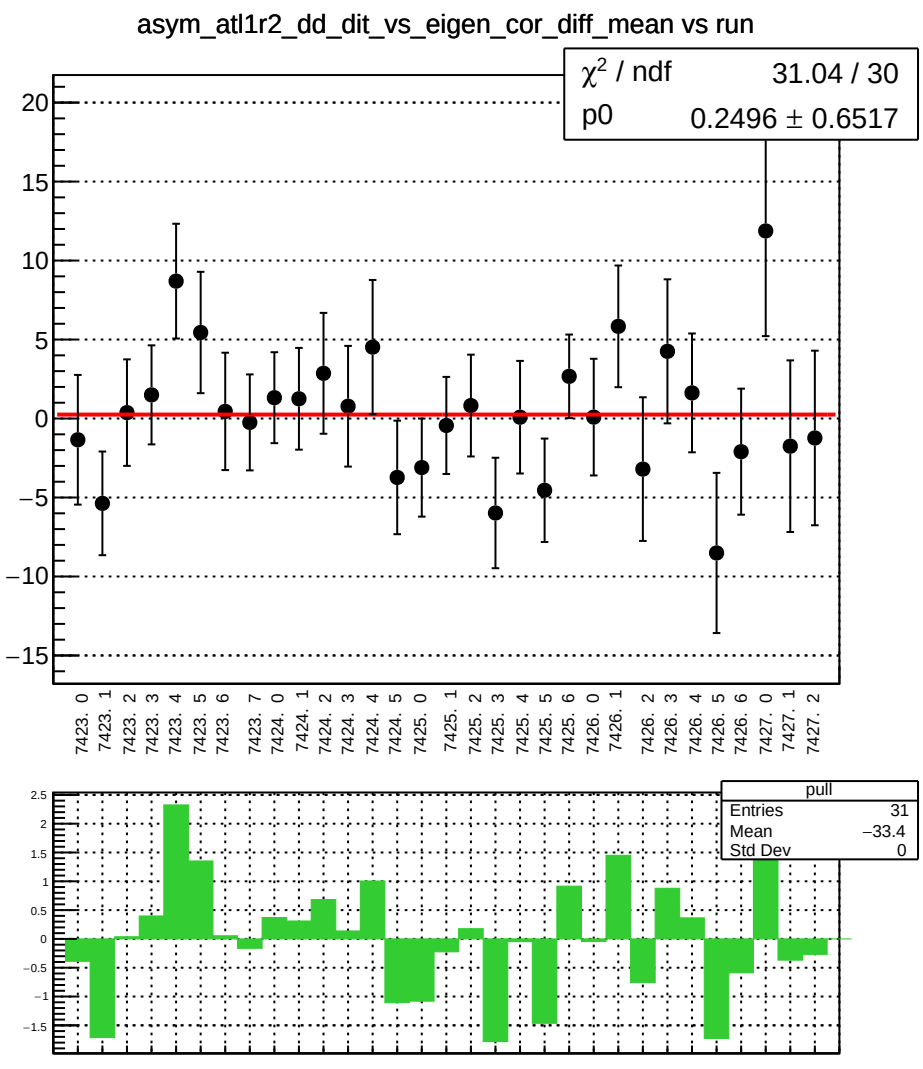

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.61 / 30
p0 −1.178e−13 ± 1.992e−13
0.05
0.04
0.03
0.02
0.01
0
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 5.302
Std Dev 4.741
2
1
0
−1
−2

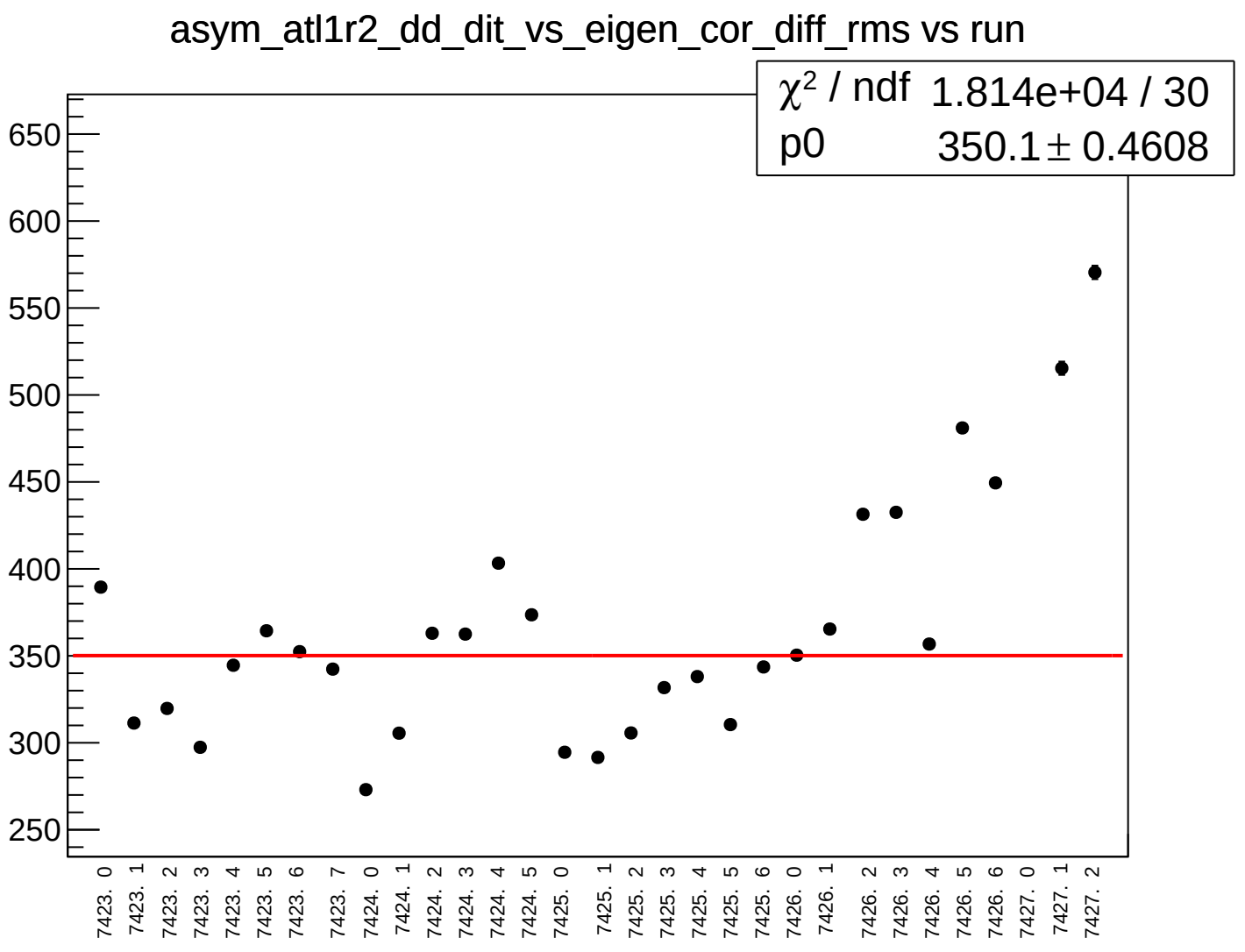

pull1D
Entries 31
Mean 0.1546
Std Dev 0.9978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

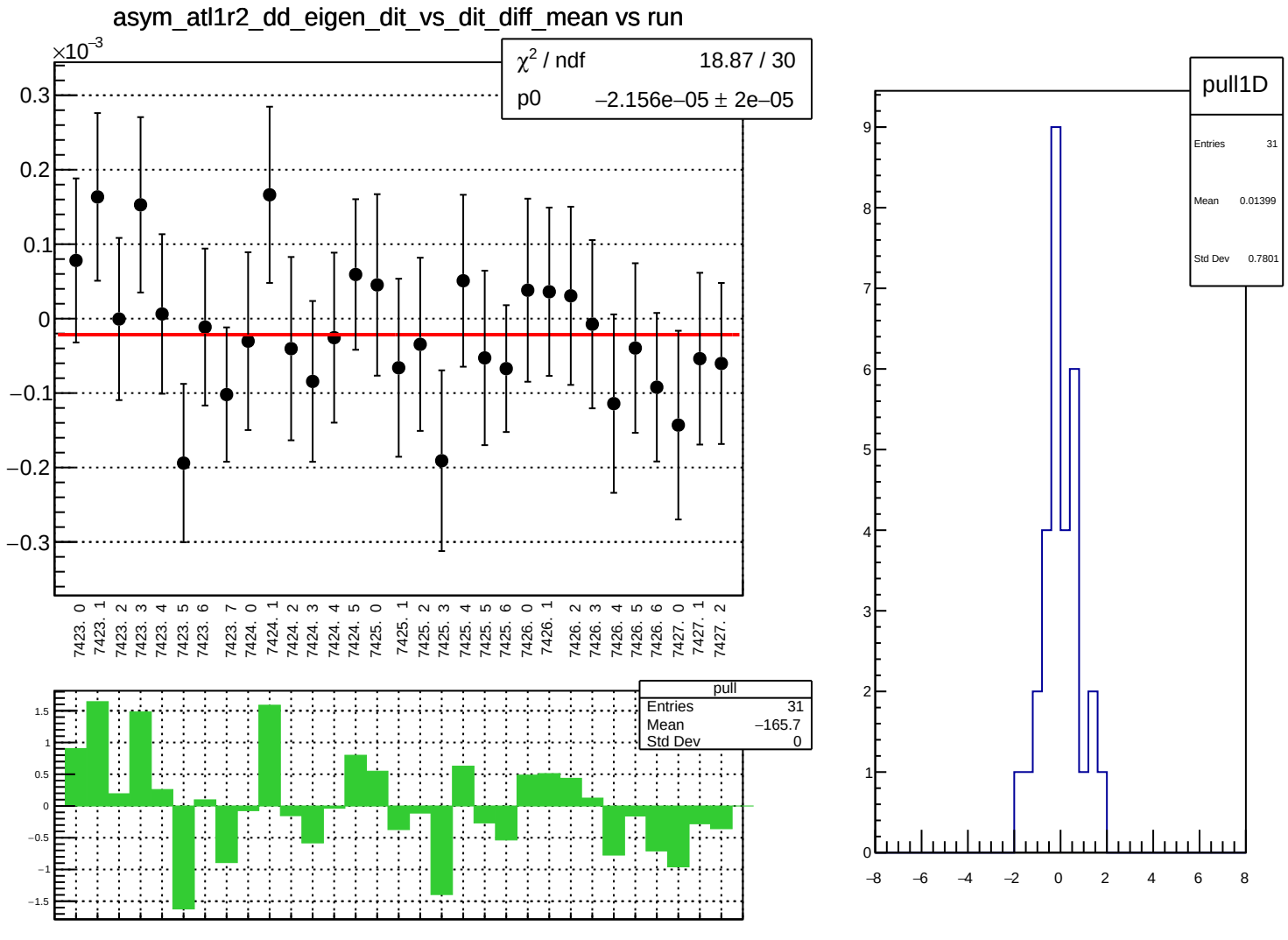

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.011e+05 / 30
p0 4.327e−11 ± 1.409e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

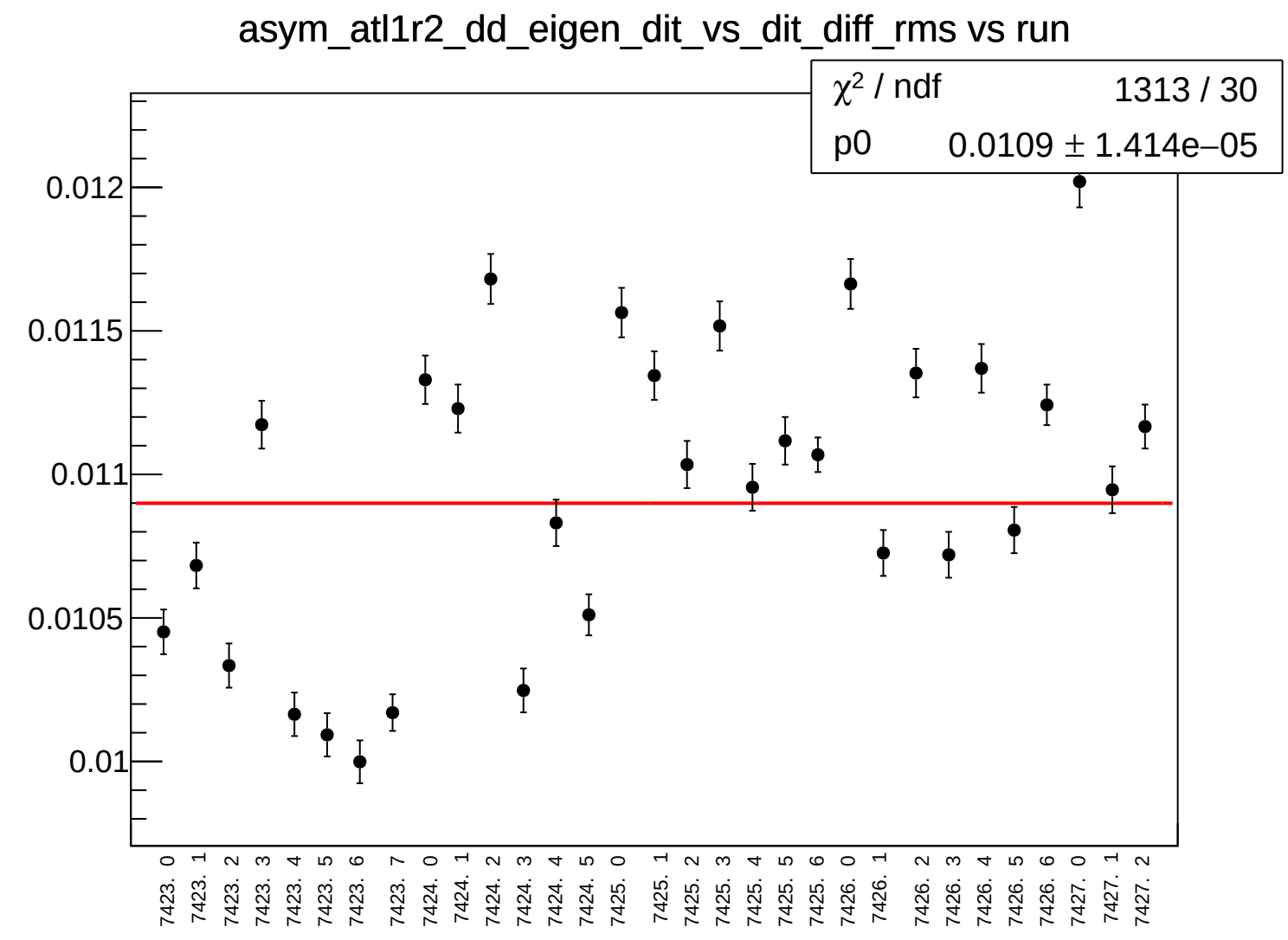

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 31.04 / 30
p0 0.2496 ± 0.6517
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −33.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01576
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

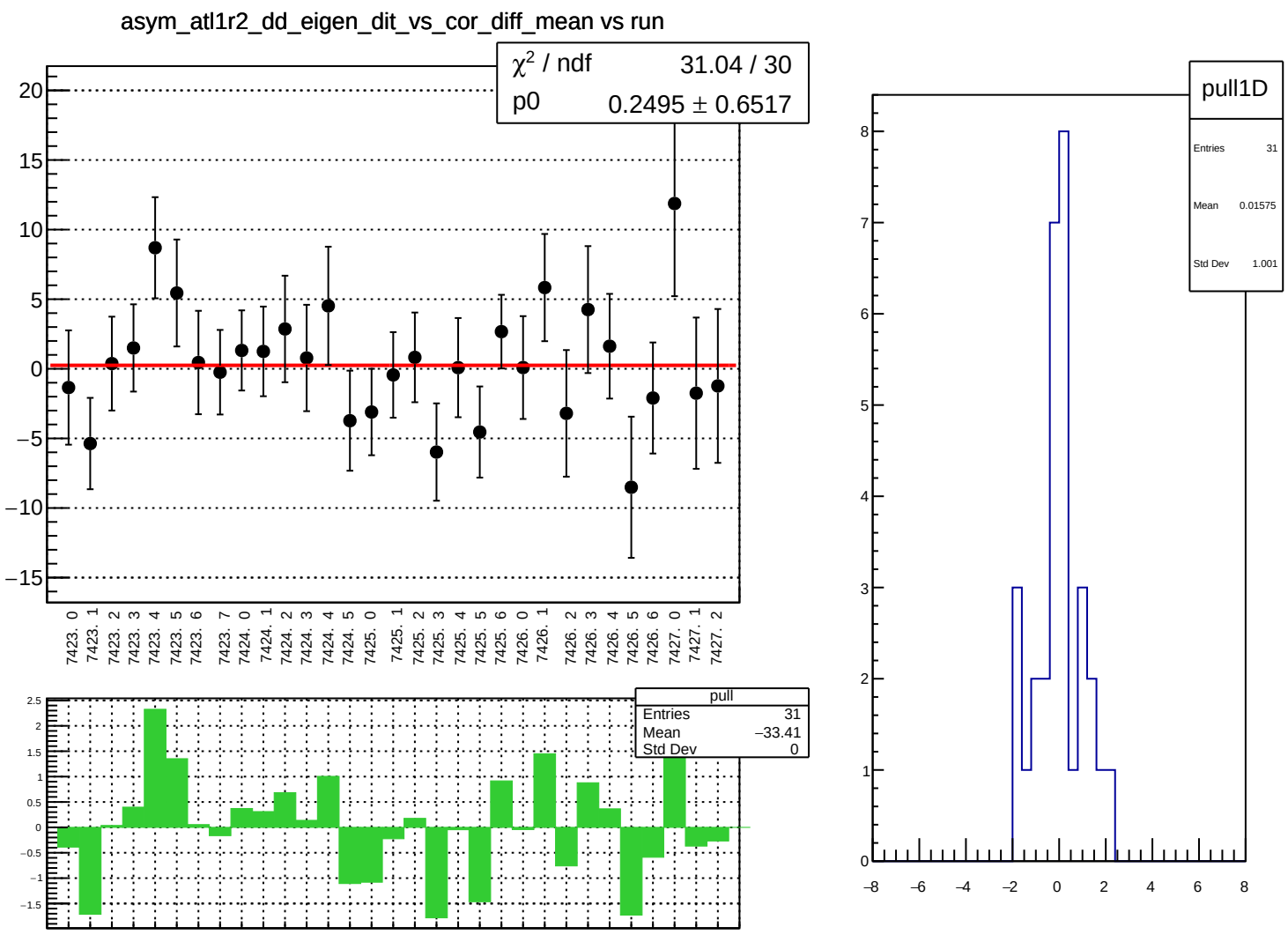

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.814e+04 / 30
p0 350.1 ± 0.4608
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

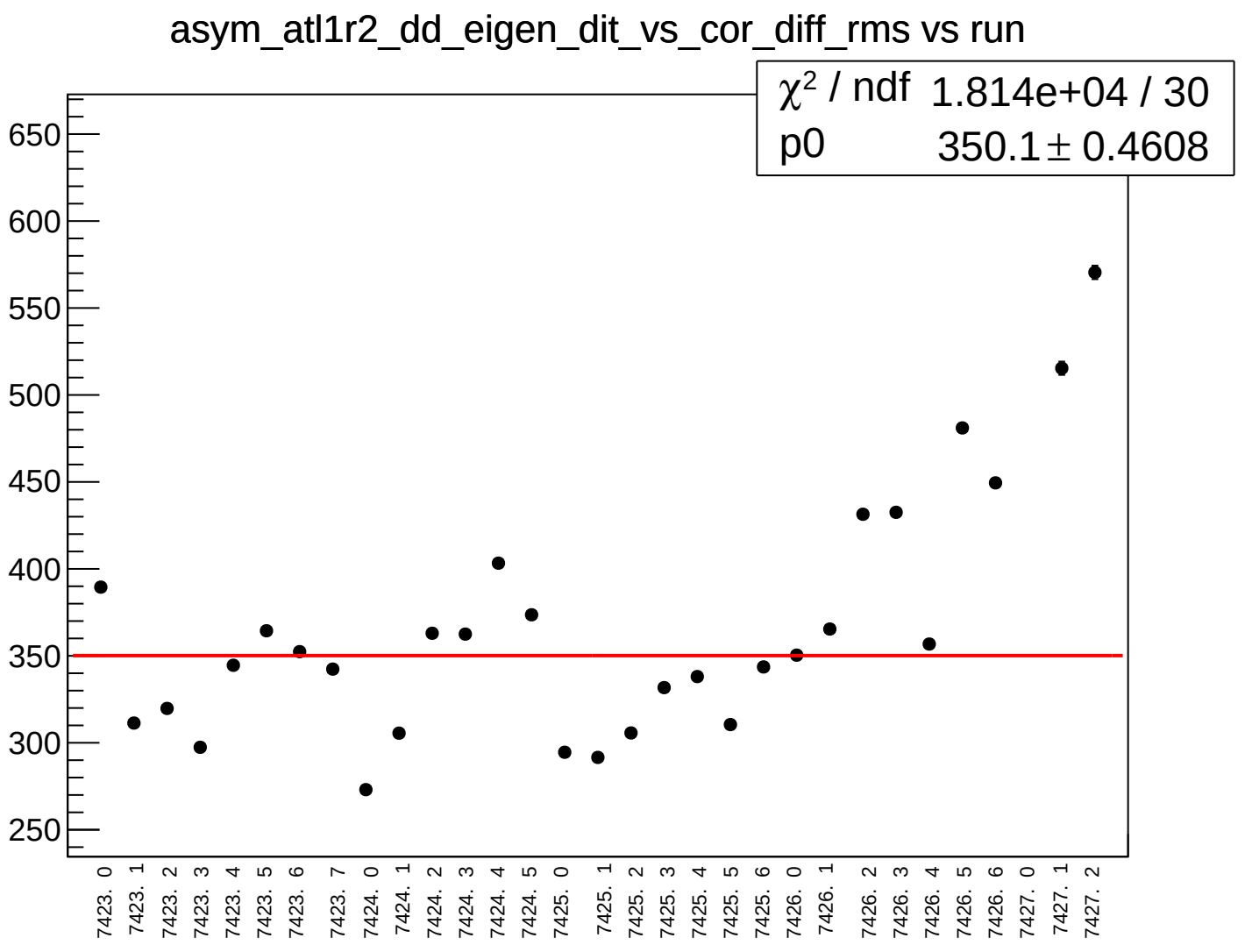

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.04 / 30
p0 0.2496 ± 0.6517
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −33.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01576
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.814e+04 / 30
p0 350.1 ± 0.4608
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

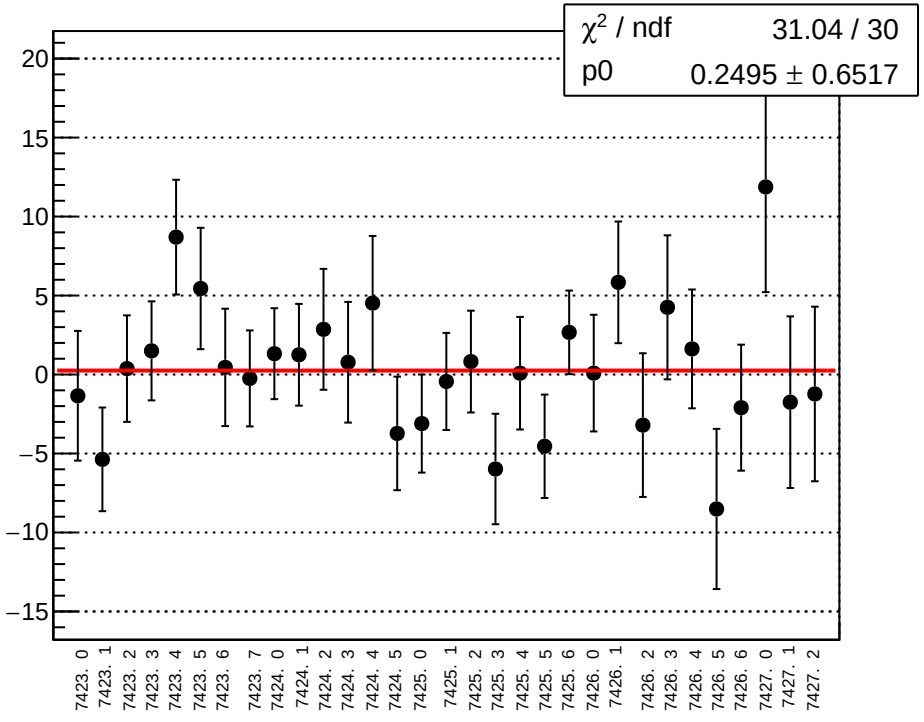

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.87 / 30
p0 −2.156e−05 ± 2e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −165.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01399
Std Dev 0.7801
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

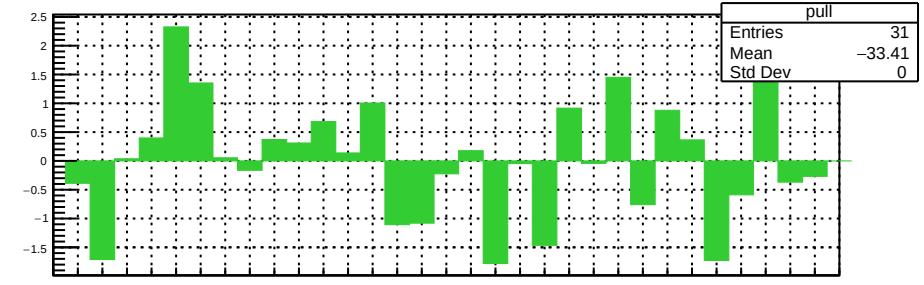

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1313 / 30
p0 0.0109 ± 1.414e−05
0.012
0.0115
0.011
0.0105
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

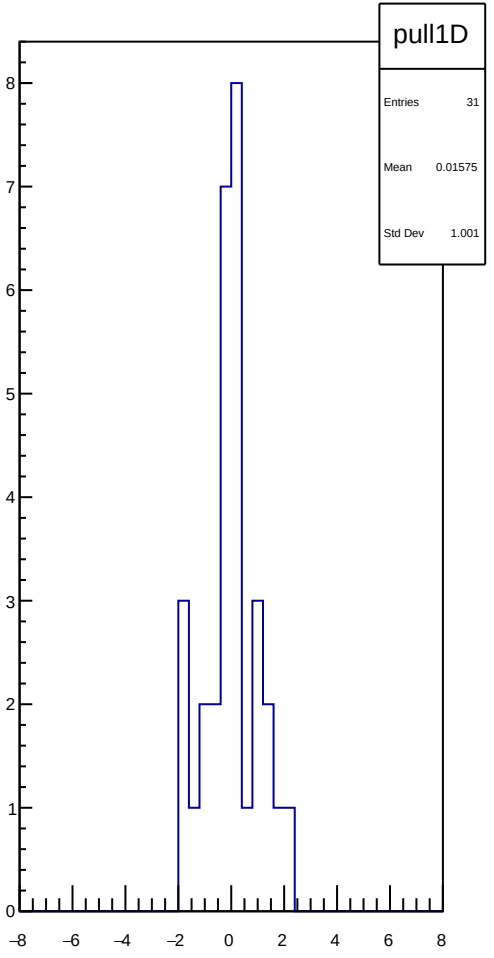

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.04 / 30
p0 0.2495 ± 0.6517
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −33.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01575
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

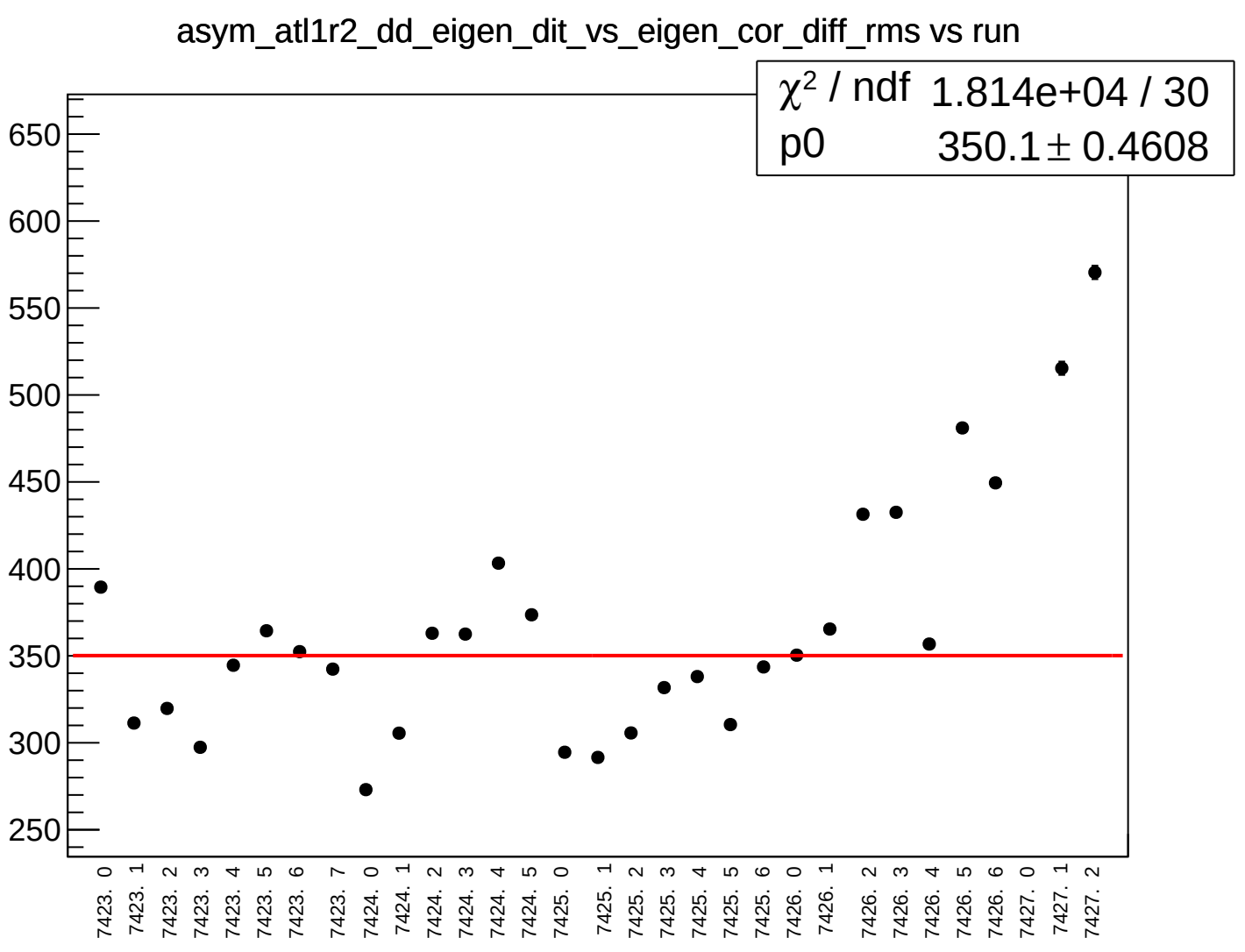

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.814e+04 / 30
p0 350.1 ± 0.4608
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

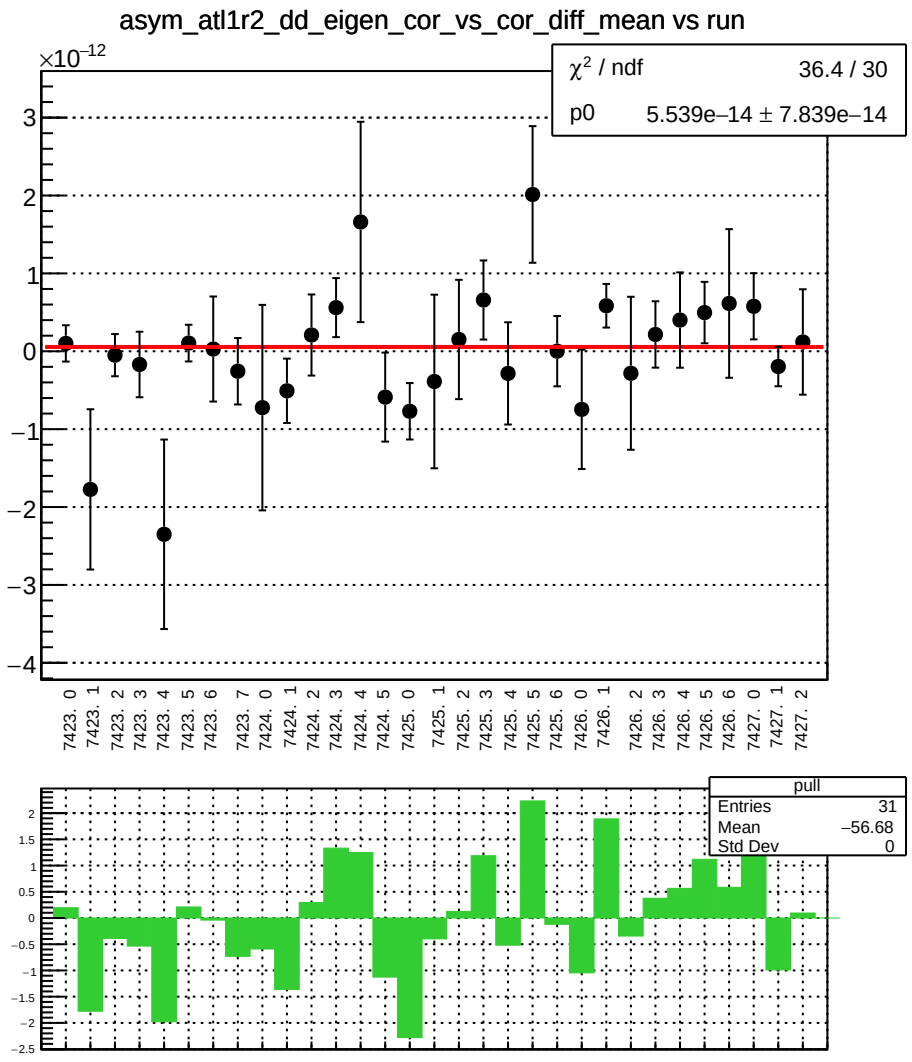
asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

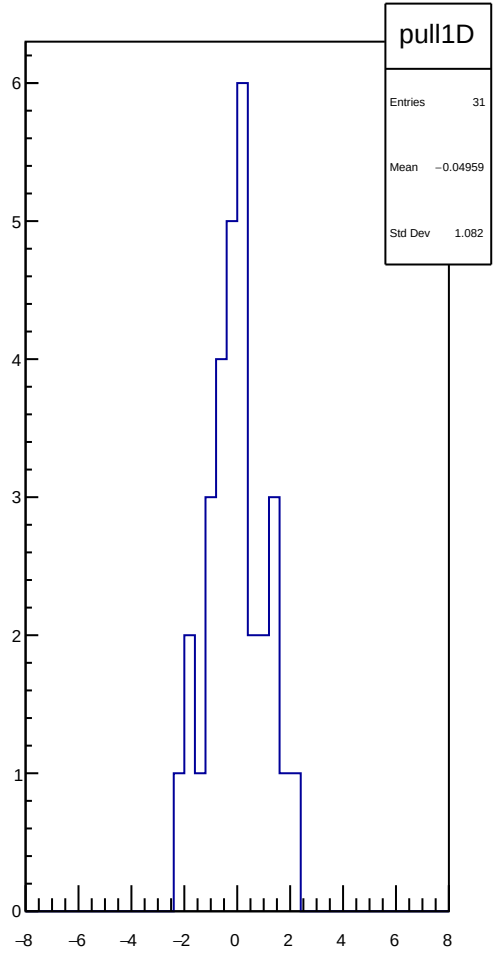


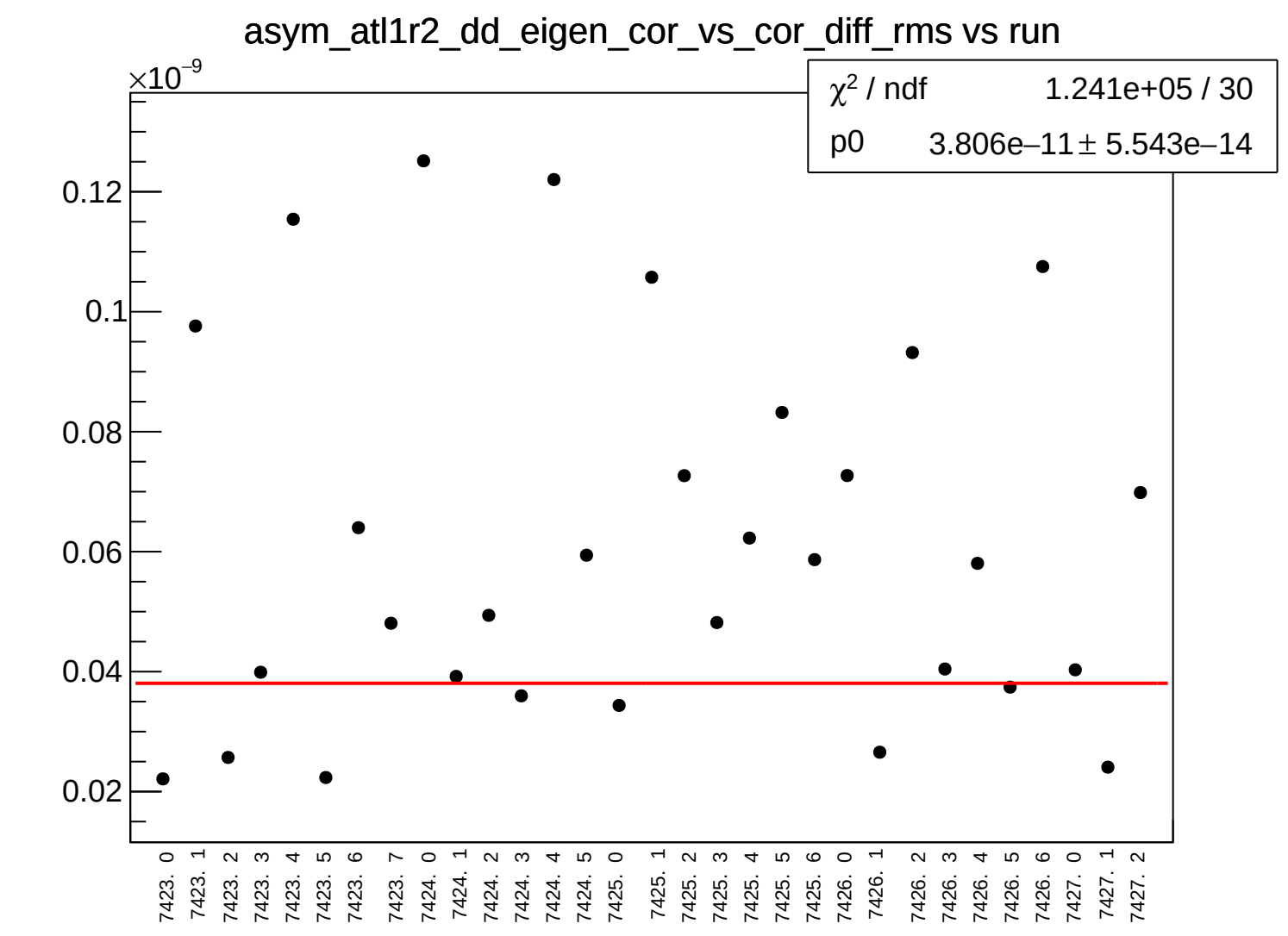


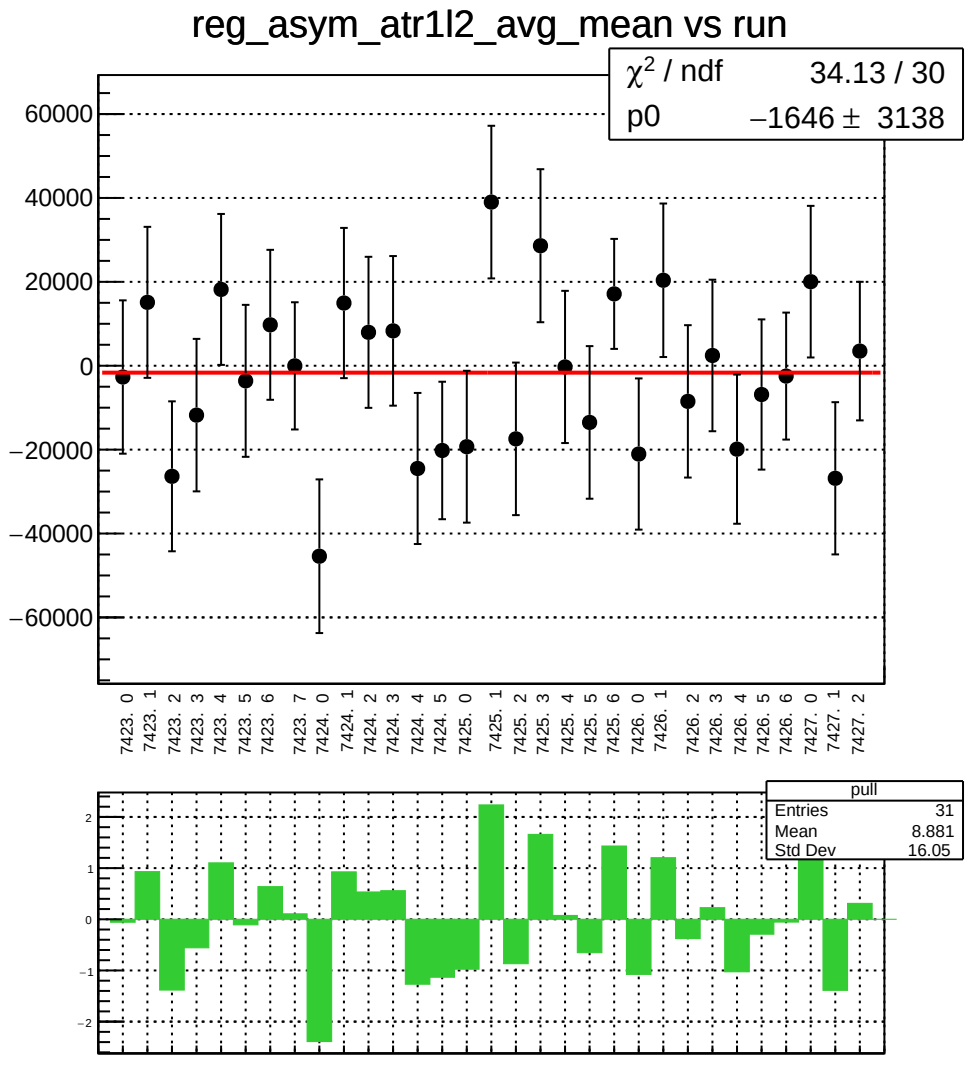


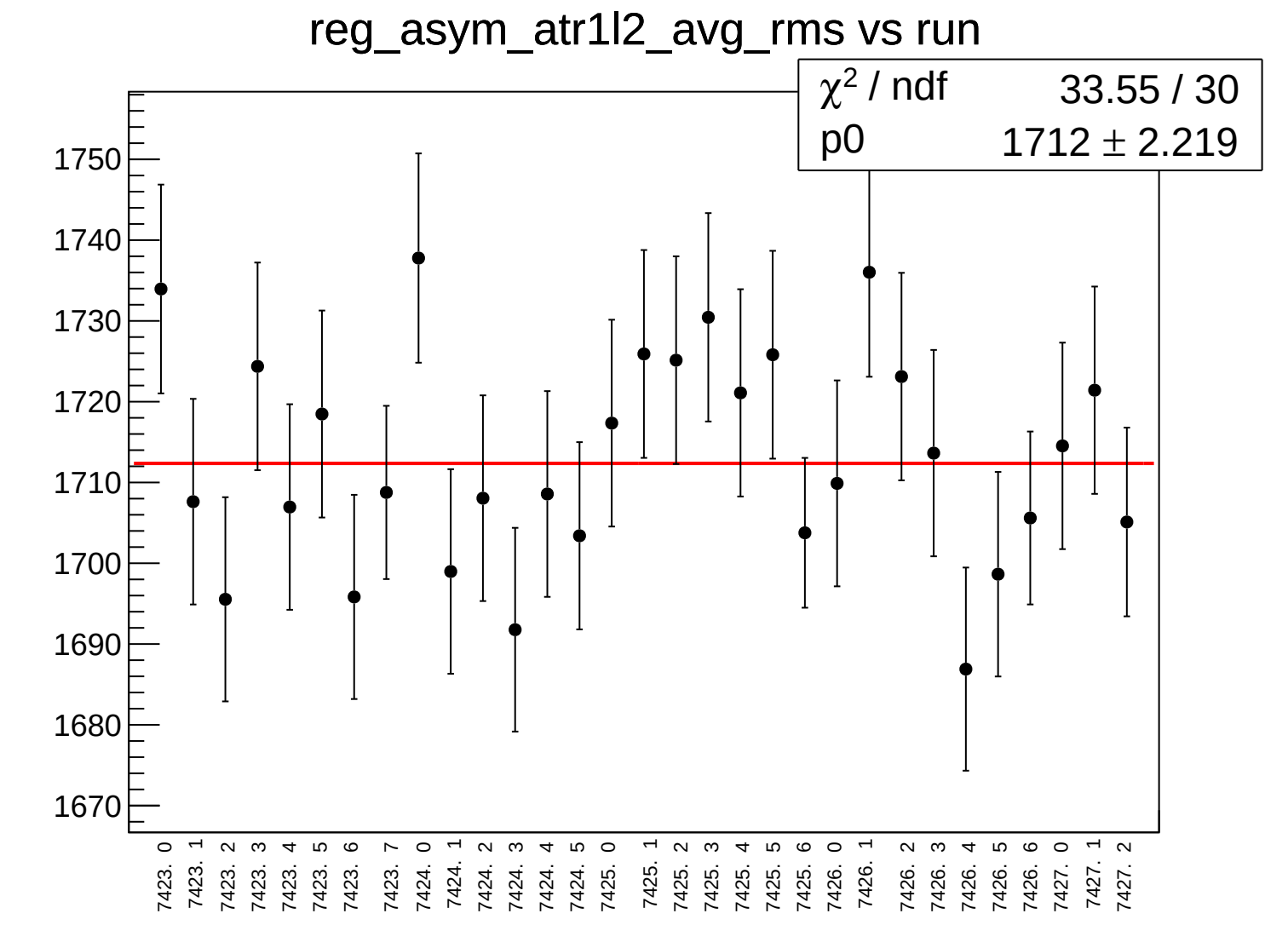

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.814e+04 / 30
p0 350.1 ± 0.4608
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

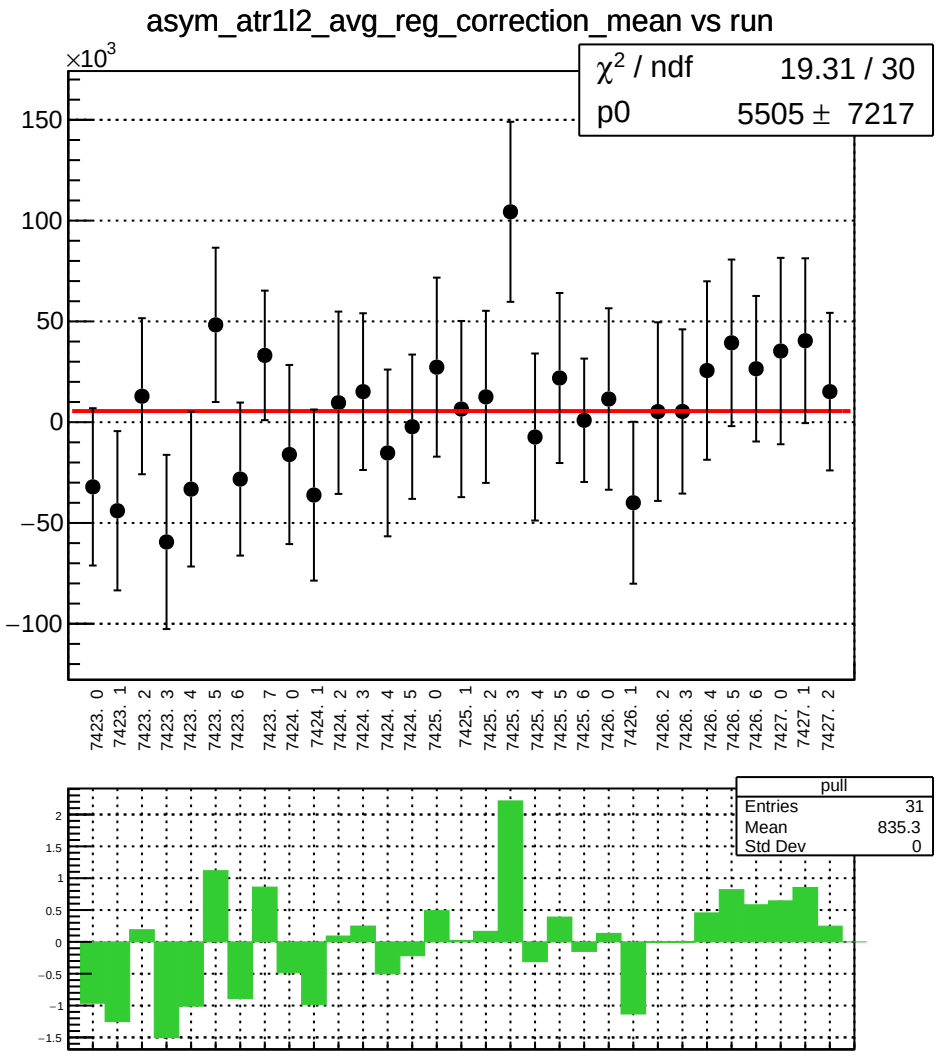

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.4 / 30
p0 5.539e−14 ± 7.839e−14
3
2
1
0
−1
−2
−3
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −56.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

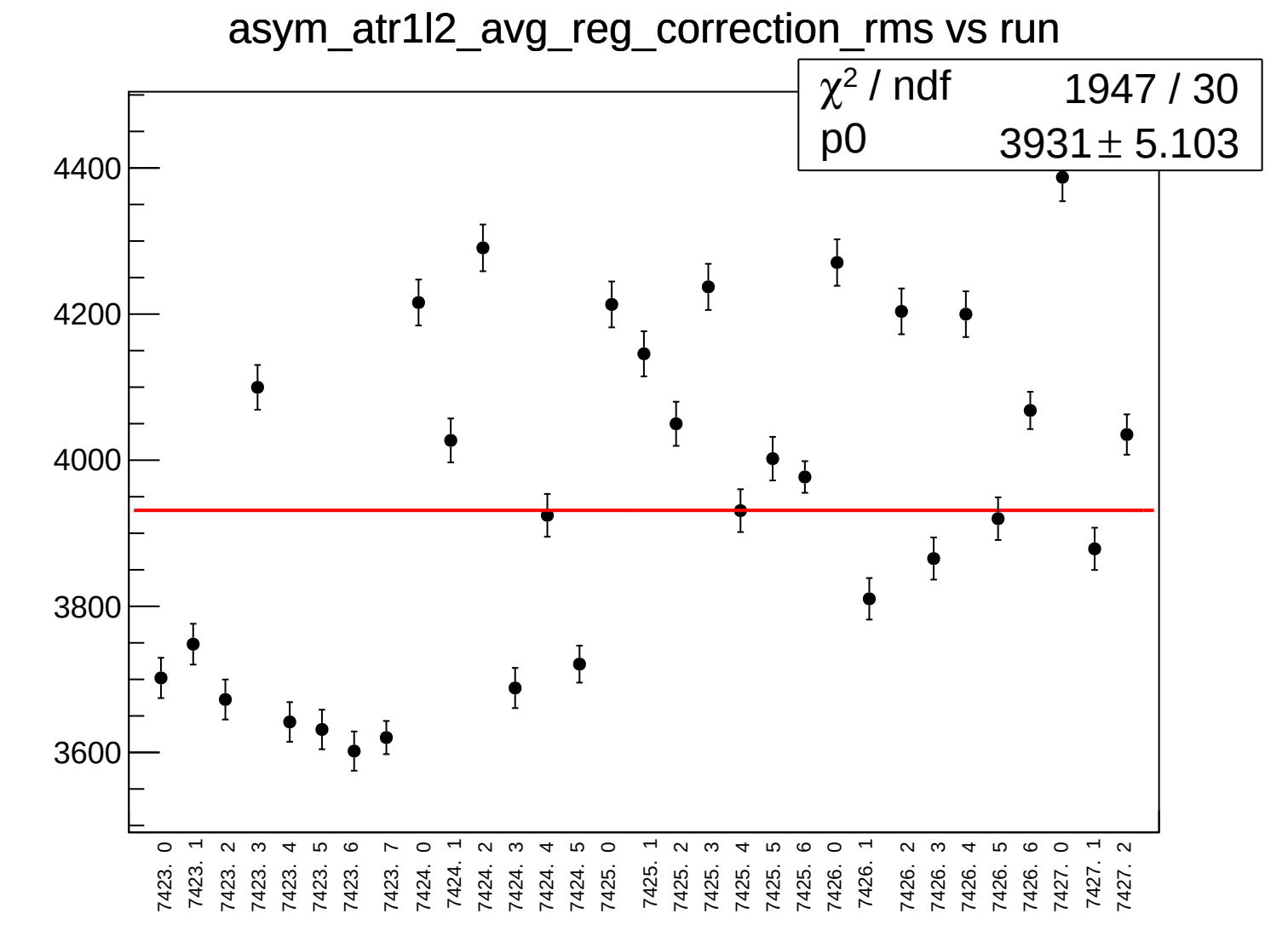

pull1D
Entries 31
Mean −0.04959
Std Dev 1.082
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

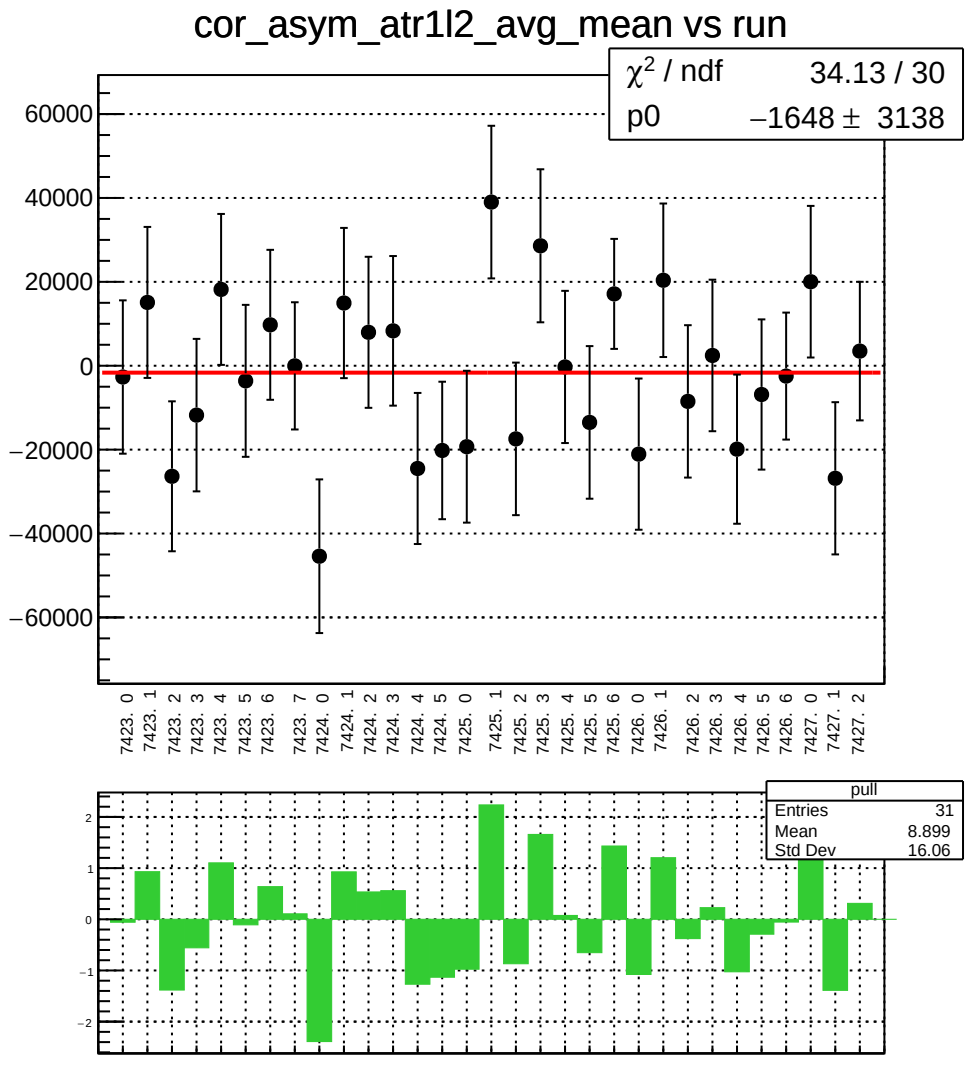

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.241e+05 / 30
p0 3.806e−11 ± 5.543e−14
0.12
0.1
0.08
0.06
0.04
0.02
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

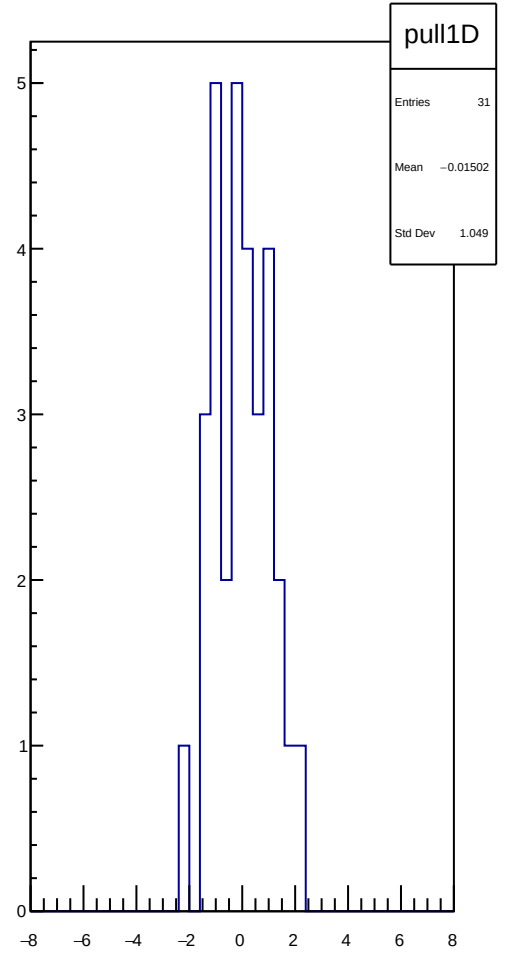

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 34.13 / 30
p0 −1646 ± 3138
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.881
Std Dev 16.05
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.01501
Std Dev 1.049
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

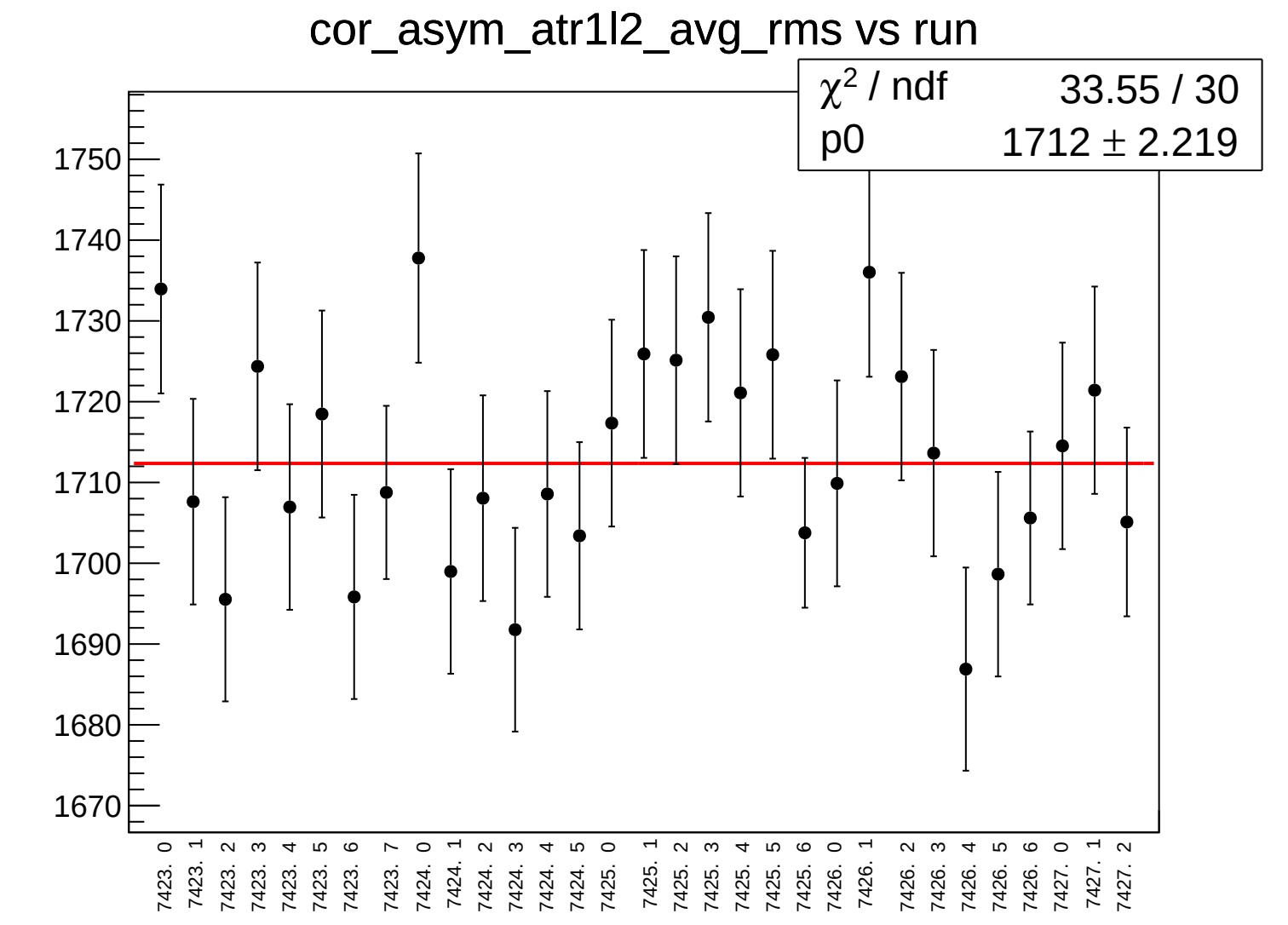

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 33.55 / 30
p0 1712 ± 2.219
1750
1740
1730
1720
1710
1700
1690
1680
1670
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

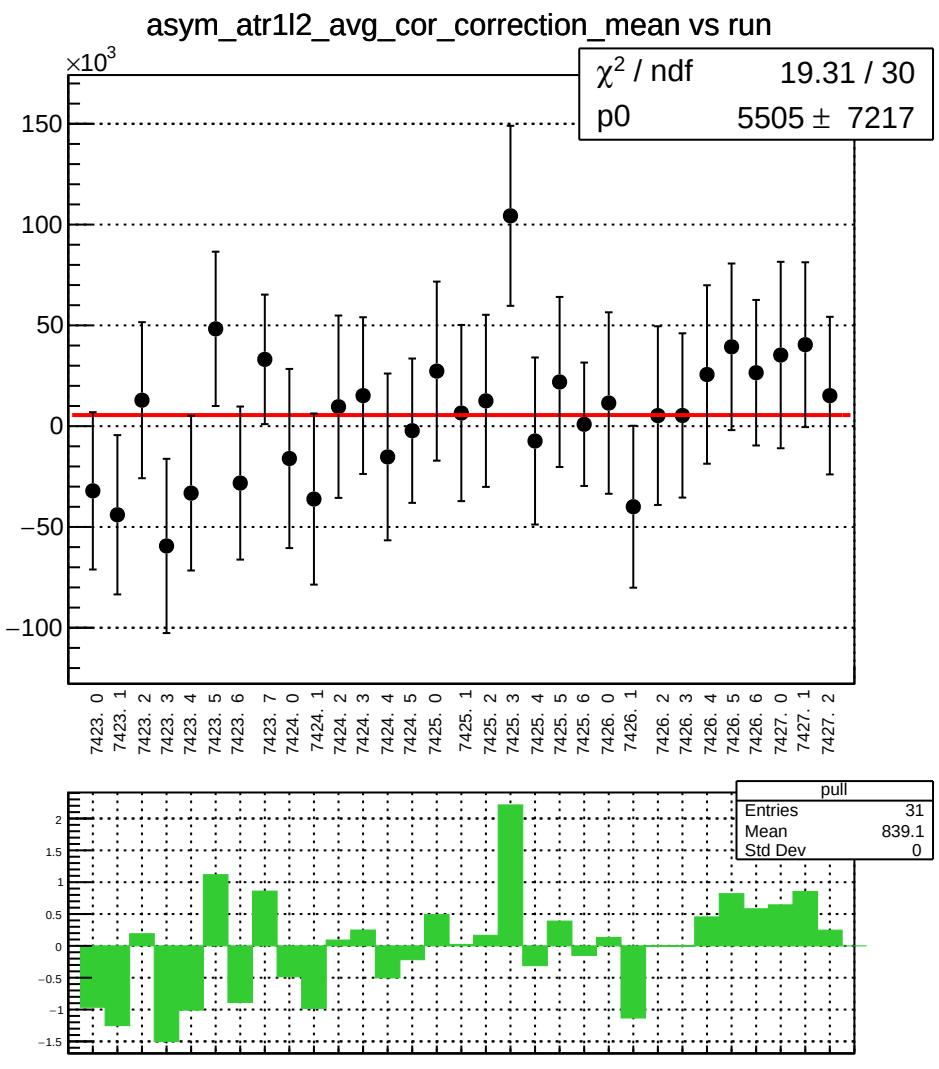

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 19.31 / 30
p0 5505 ± 7217
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 835.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.003922
Std Dev 0.7892
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

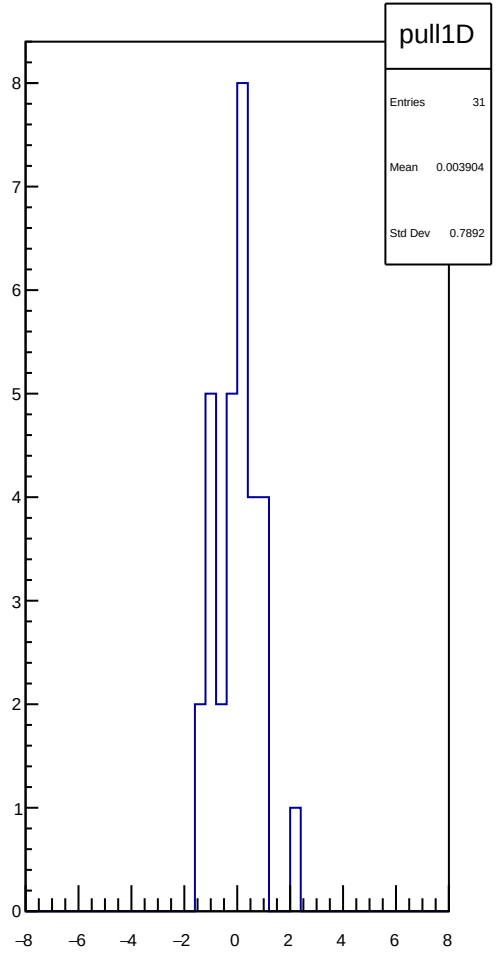

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1947 / 30
p0 3931 ± 5.103
4400
4200
4000
3800
3600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

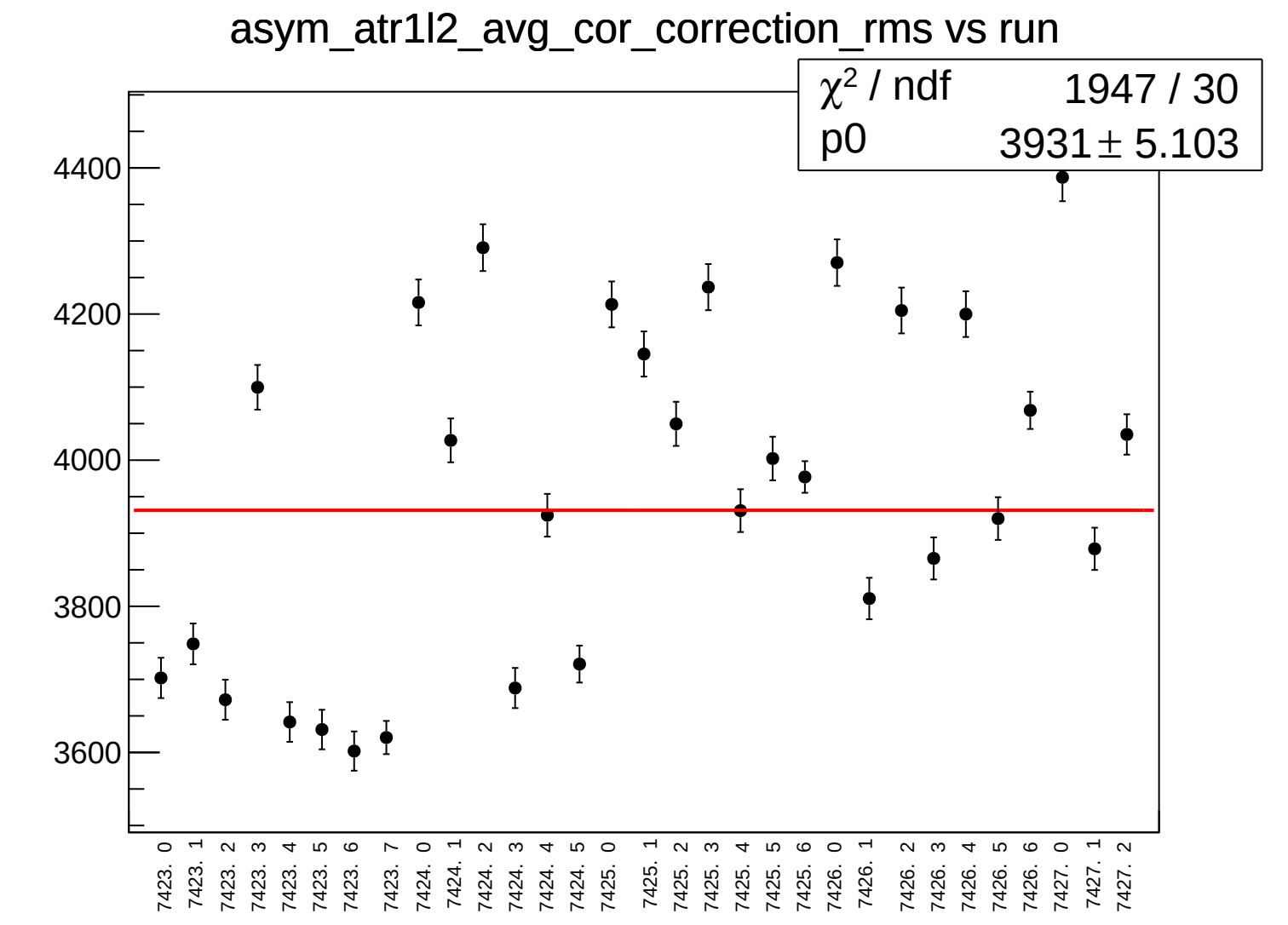

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 34.13 / 30
p0 −1648 ± 3138
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.899
Std Dev 16.06
2
1
0
−1
−2

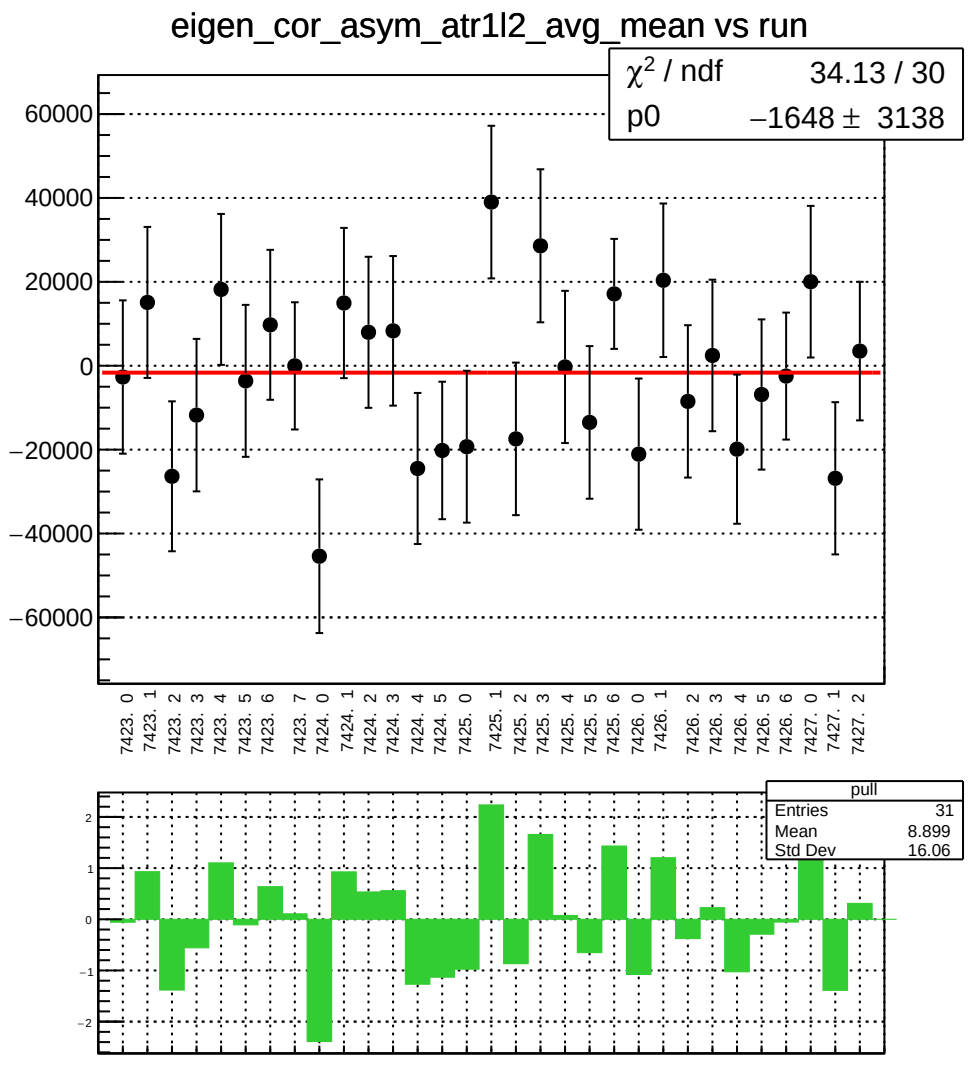

pull1D
Entries 31
Mean −0.01502
Std Dev 1.049
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

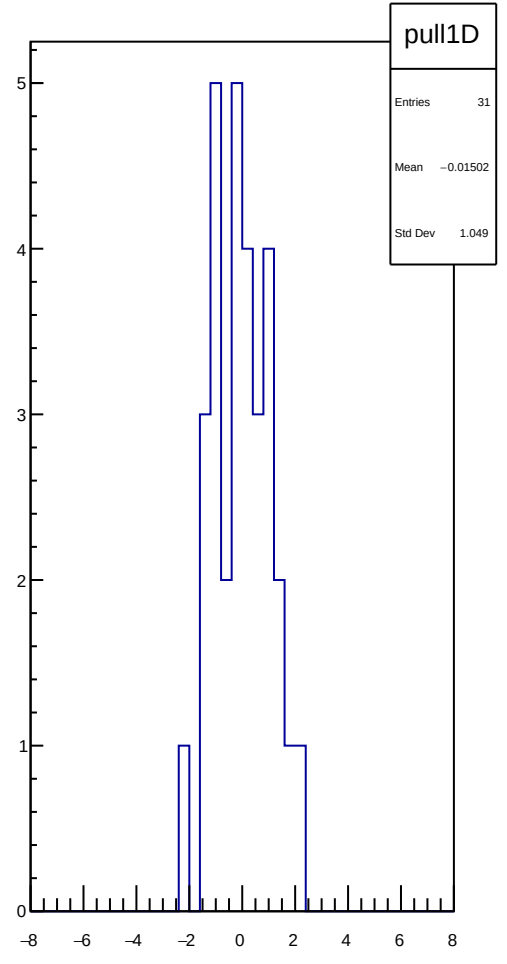

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 33.55 / 30
p0 1712 ± 2.219
1750
1740
1730
1720
1710
1700
1690
1680
1670
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

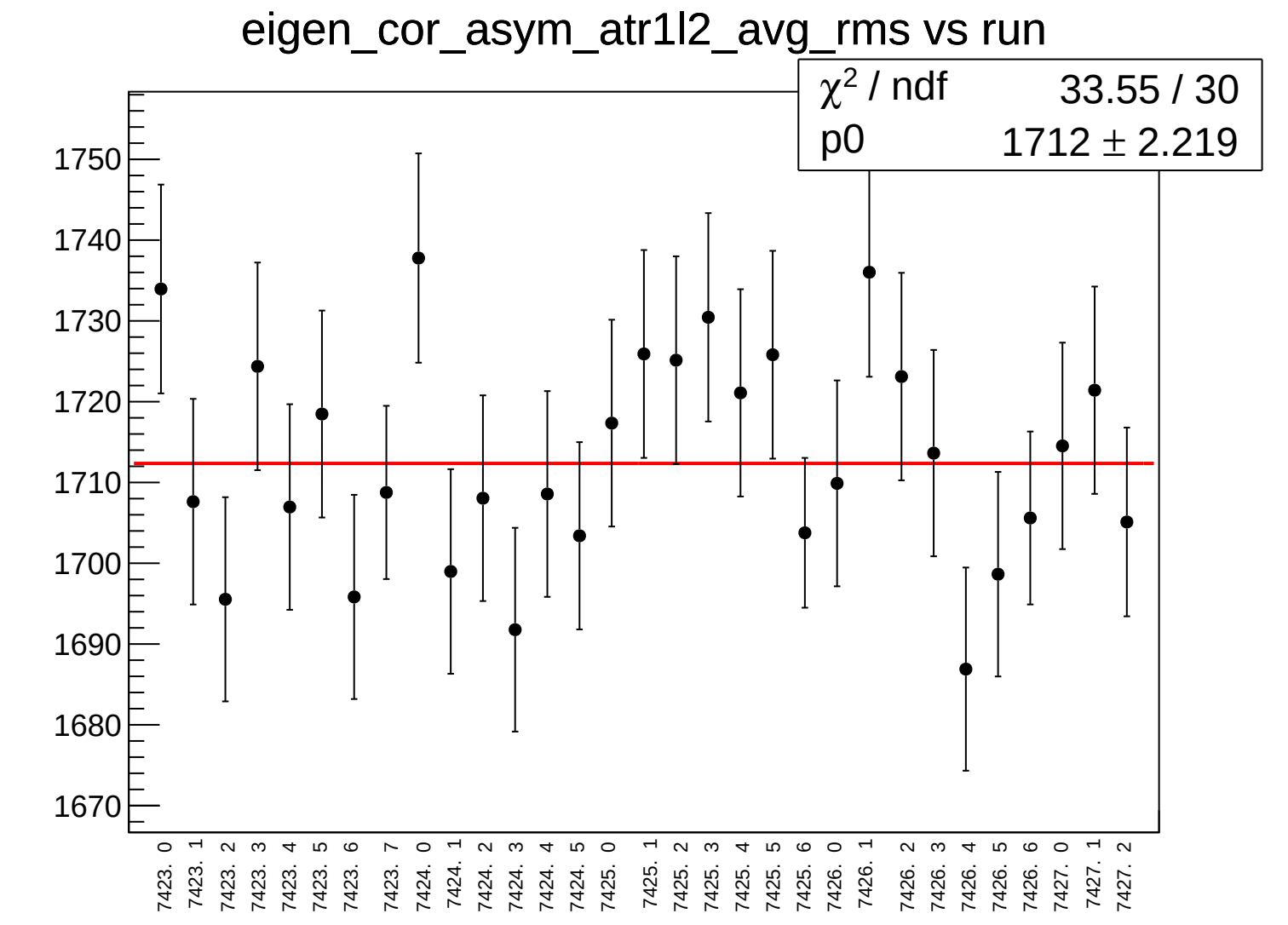

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 19.31 / 30
p0 5505 ± 7217
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 839.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

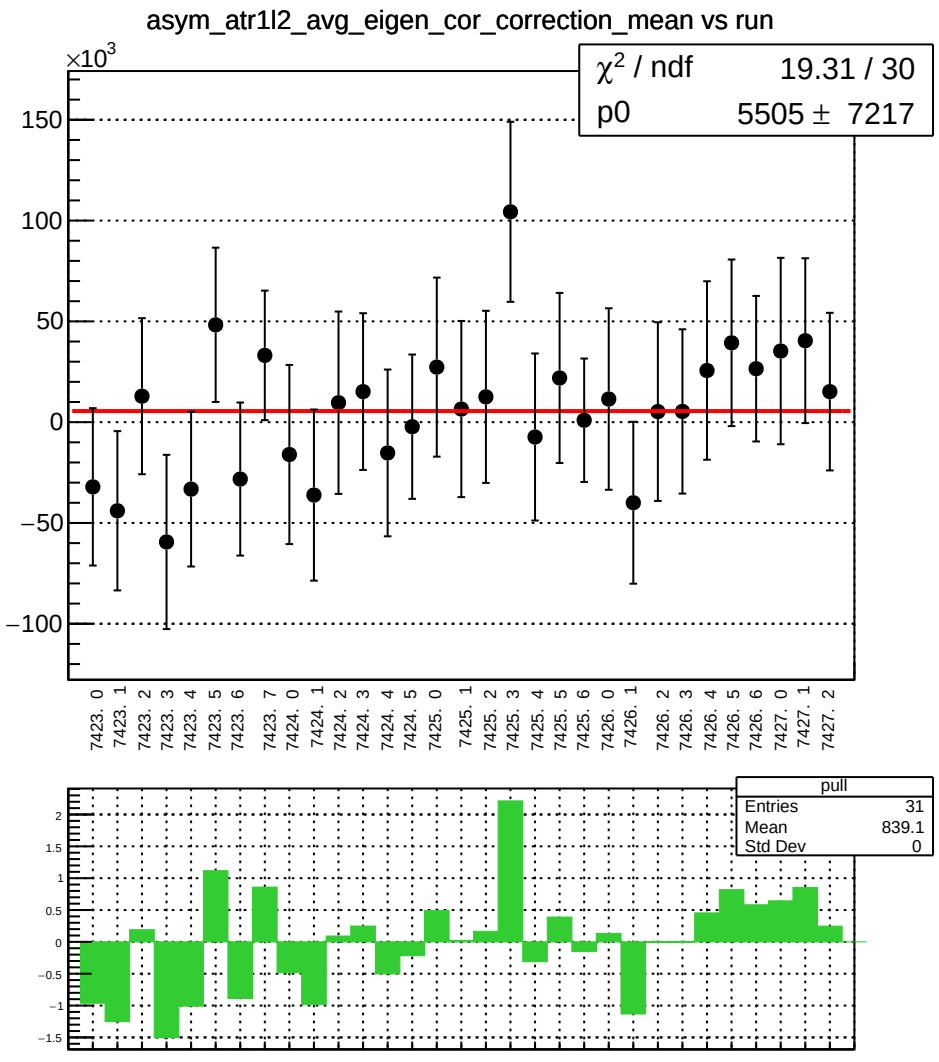

pull1D
Entries 31
Mean 0.003904
Std Dev 0.7892
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

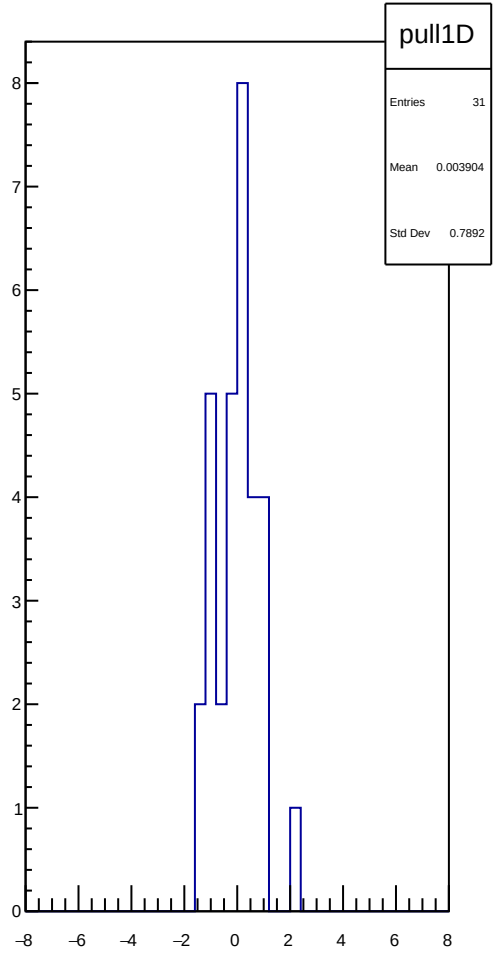

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1947 / 30
p0 3931 ± 5.103
4400
4200
4000
3800
3600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

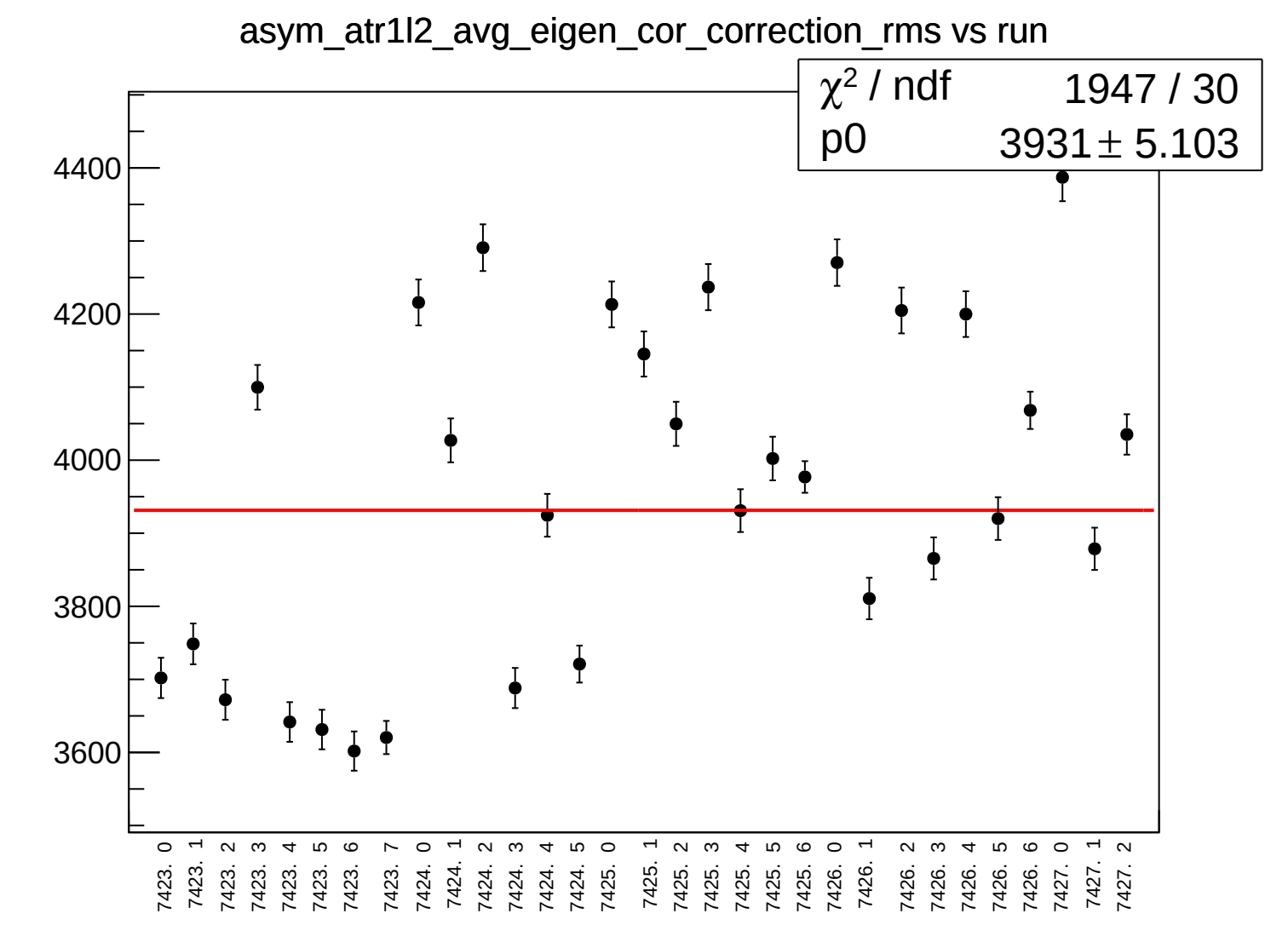

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 34.13 / 30
p0 −1648 ± 3138
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.899
Std Dev 16.06
2
1
0
−1
−2

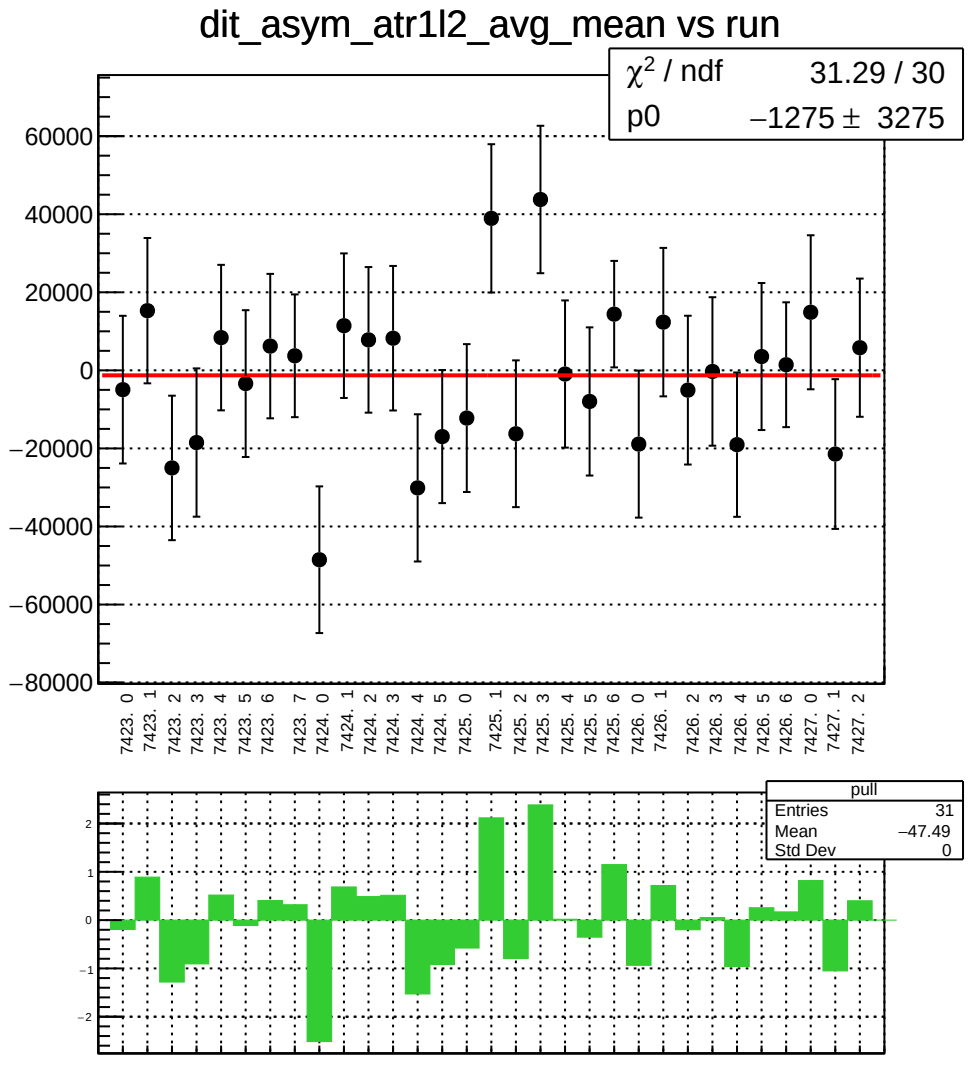

pull1D
Entries 31
Mean −0.01502
Std Dev 1.049
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

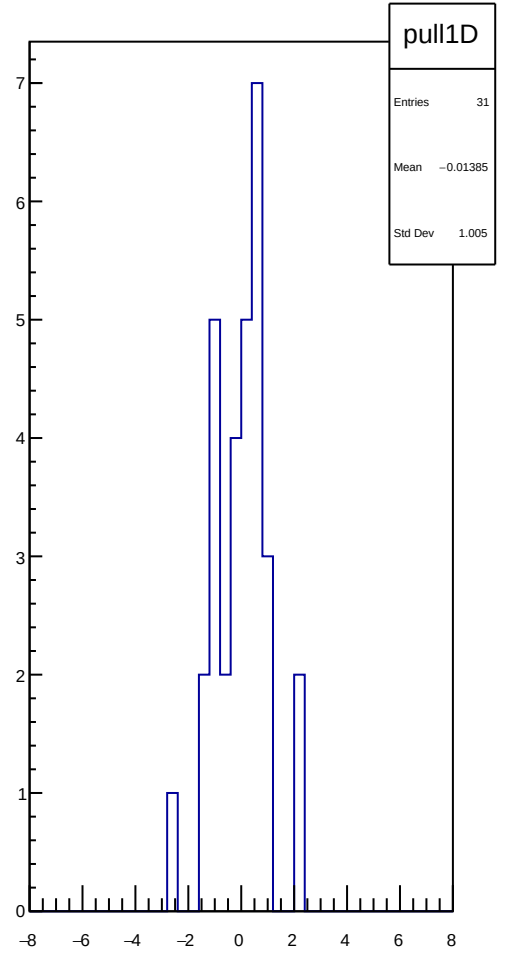

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 33.55 / 30
p0 1712 ± 2.219
1750
1740
1730
1720
1710
1700
1690
1680
1670
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

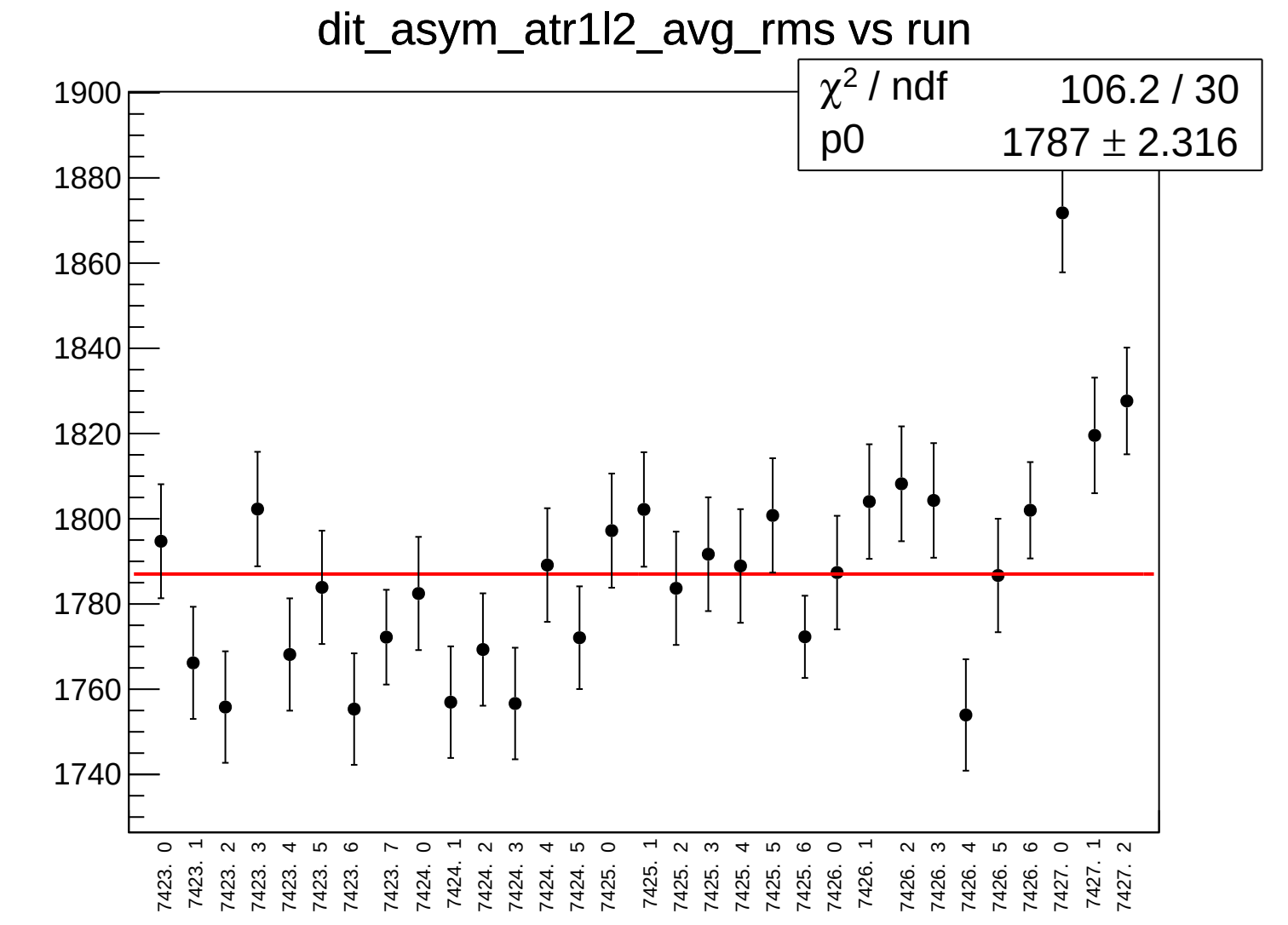

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 19.31 / 30
p0 5505 ± 7217
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 839.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

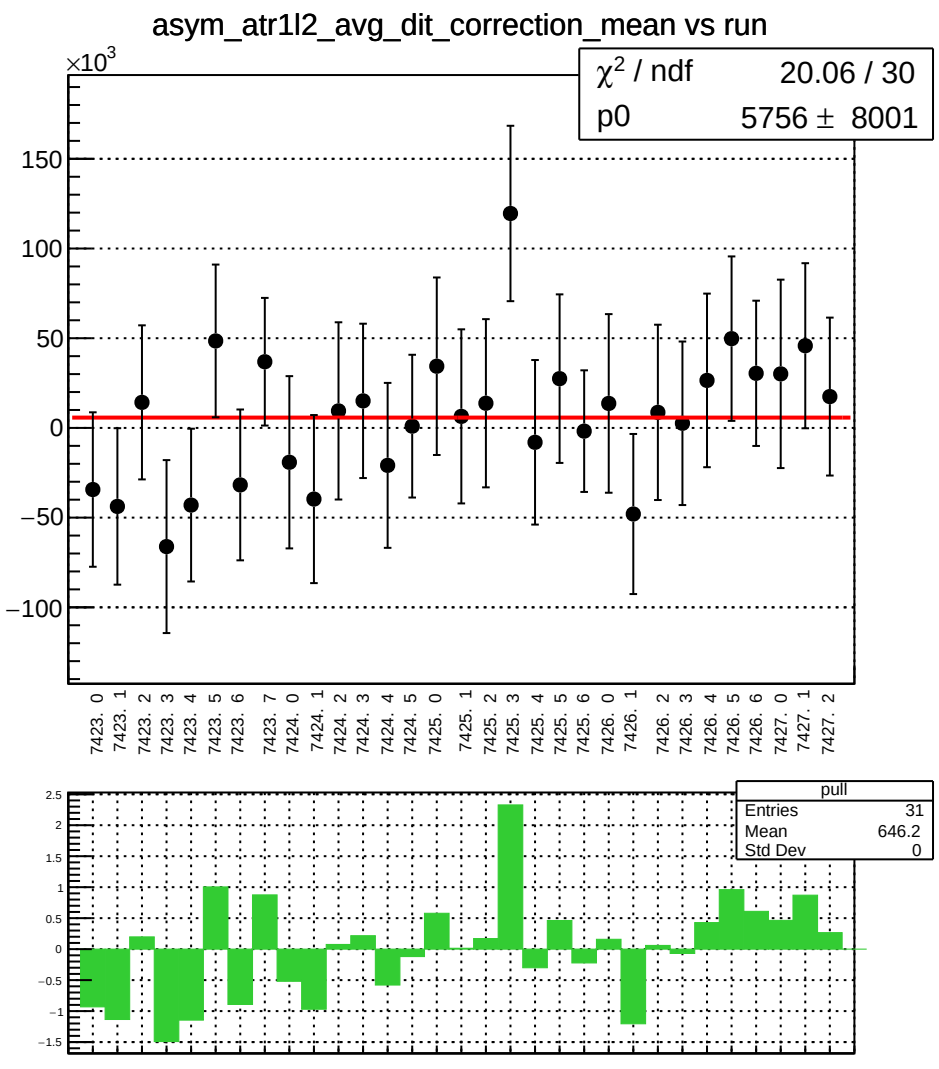

pull1D
Entries 31
Mean 0.003904
Std Dev 0.7892
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

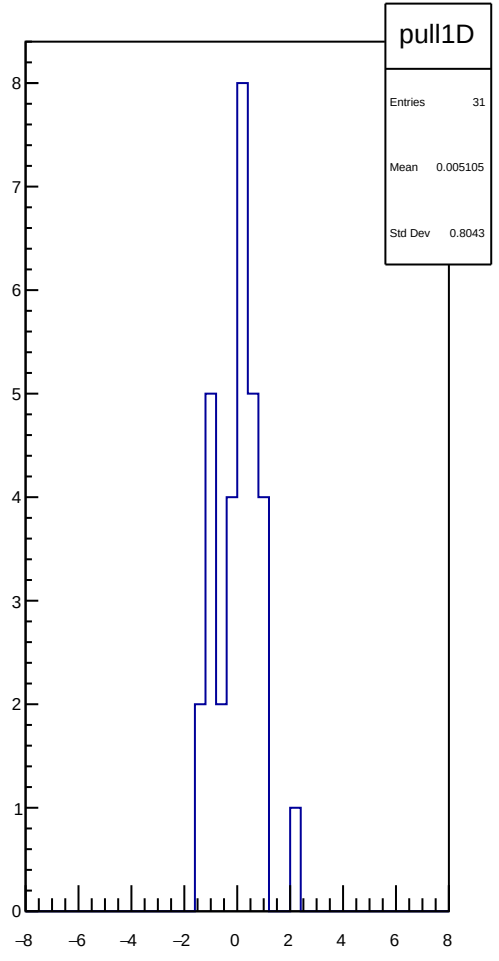

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1947 / 30
p0 3931 ± 5.103
4400
4200
4000
3800
3600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

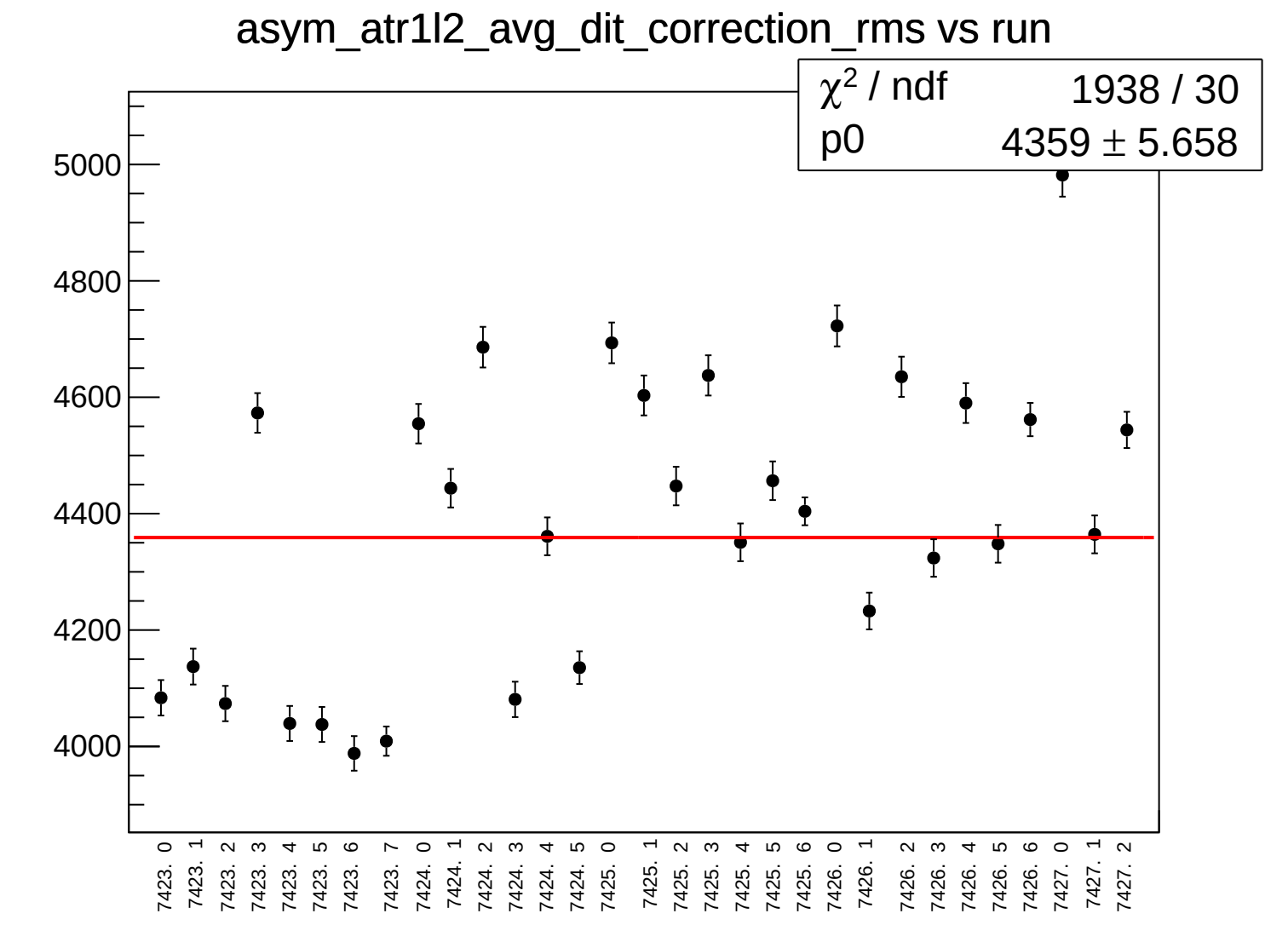

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 31.29 / 30
p0 −1275 ± 3275
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −47.49
Std Dev 0
2
1
0
−1
−2

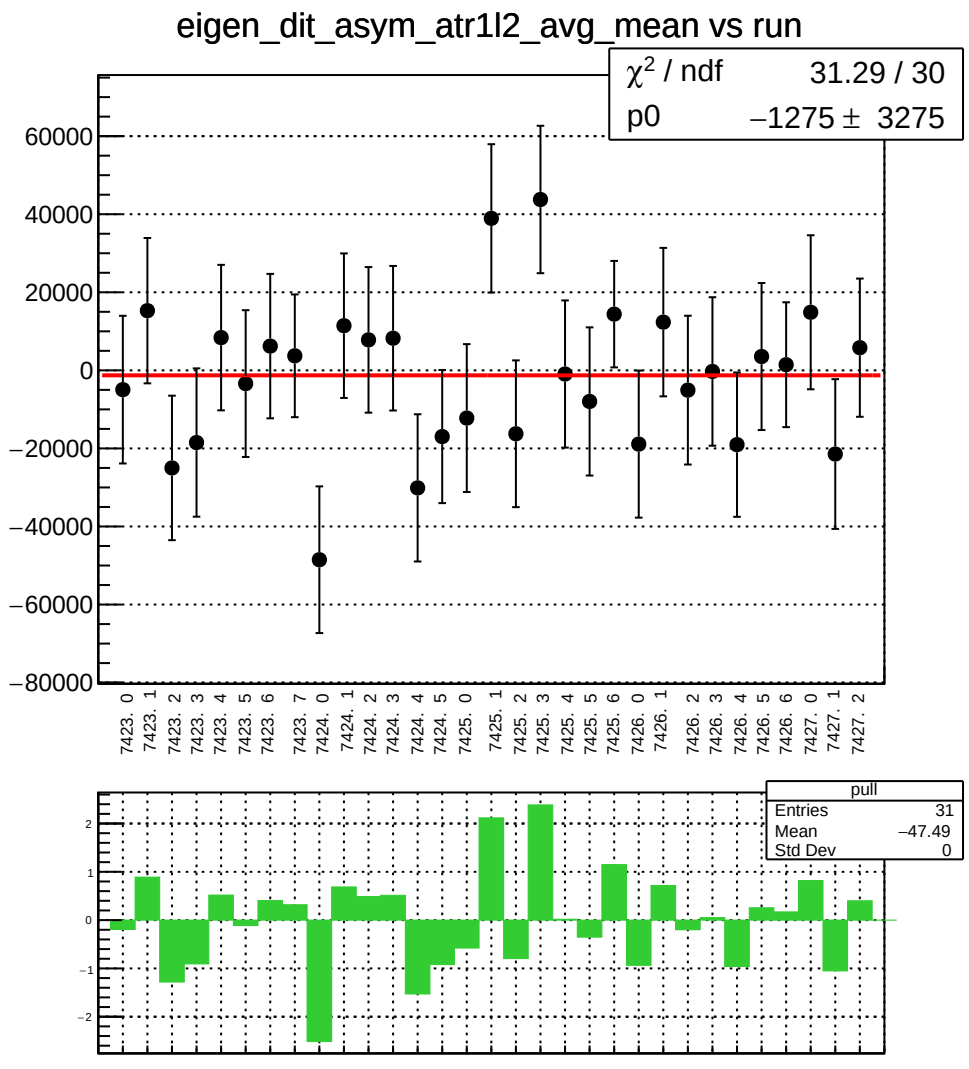

pull1D
Entries 31
Mean −0.01385
Std Dev 1.005
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

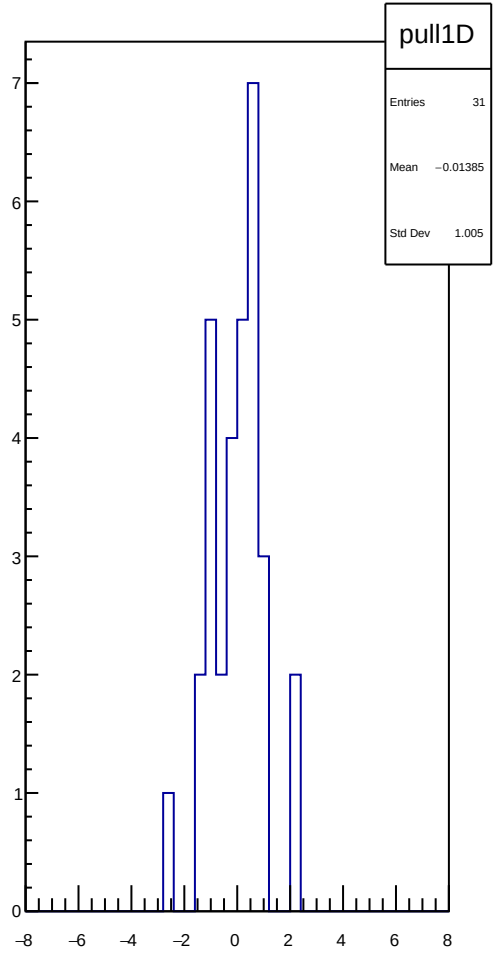

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 106.2 / 30
p0 1787 ± 2.316
1900
1880
1860
1840
1820
1800
1780
1760
1740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

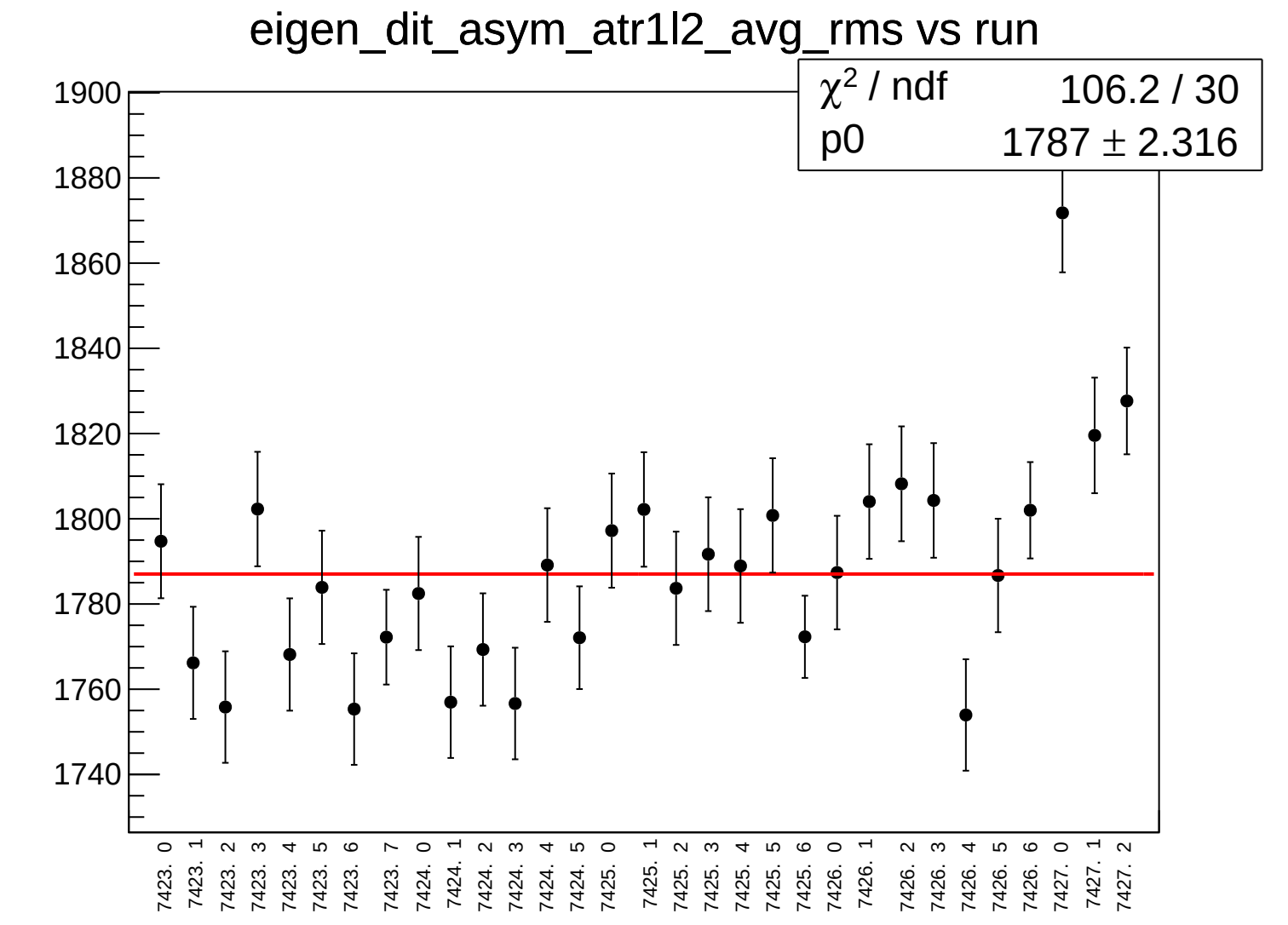

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 20.06 / 30
p0 5756 ± 8001
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 646.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

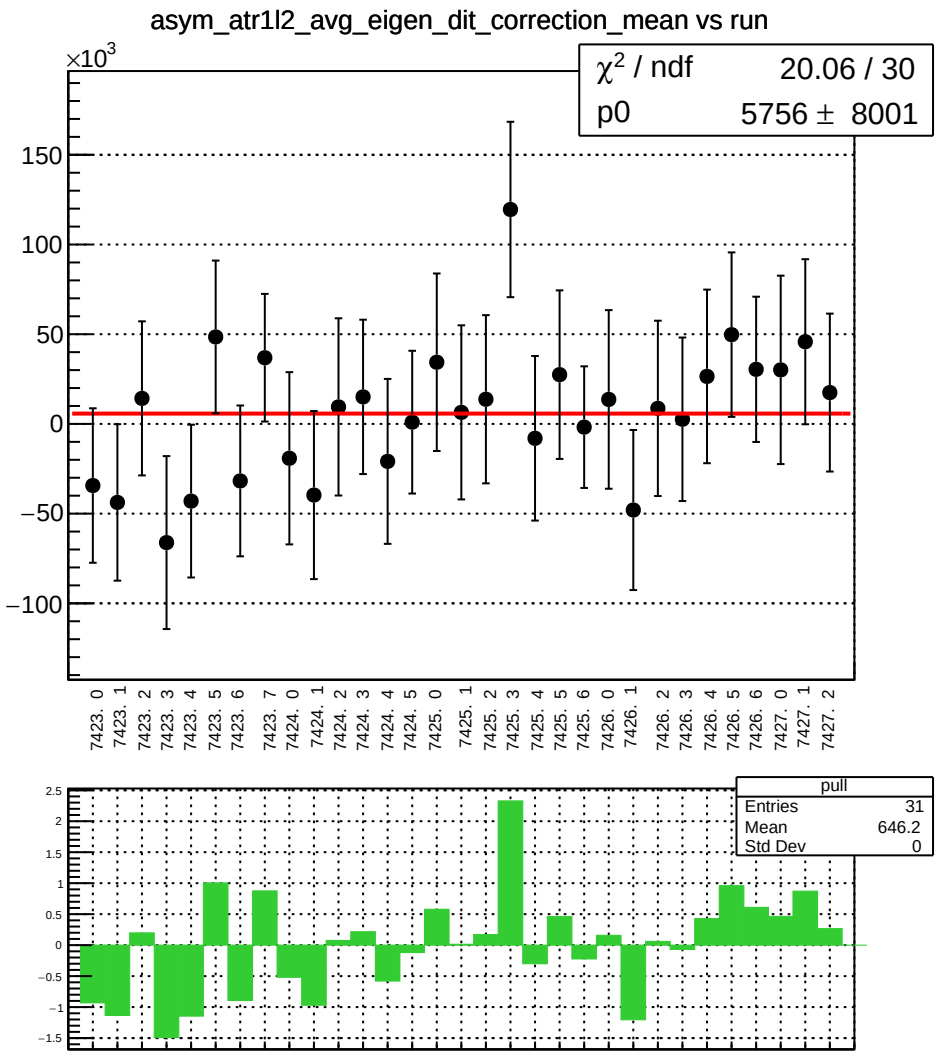

pull1D
Entries 31
Mean 0.005105
Std Dev 0.8043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

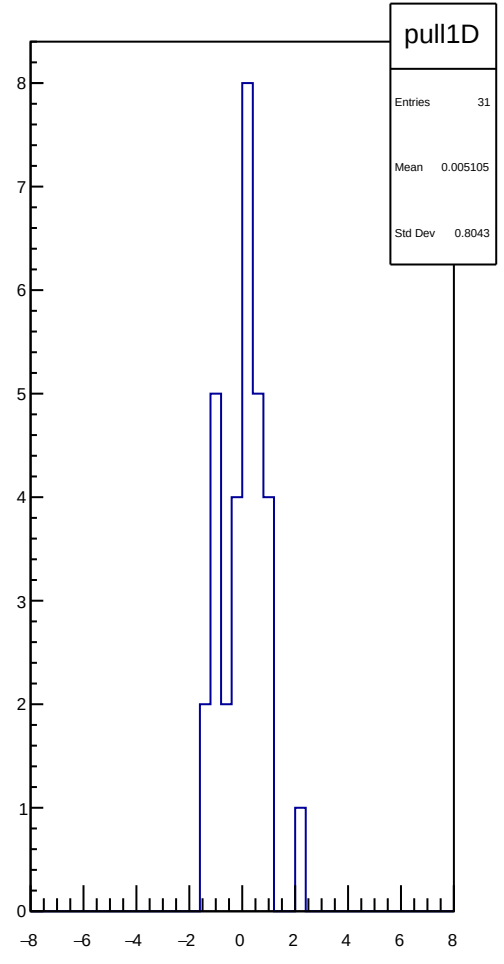

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1938 / 30
p0 4359 ± 5.658
5000
4800
4600
4400
4200
4000
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

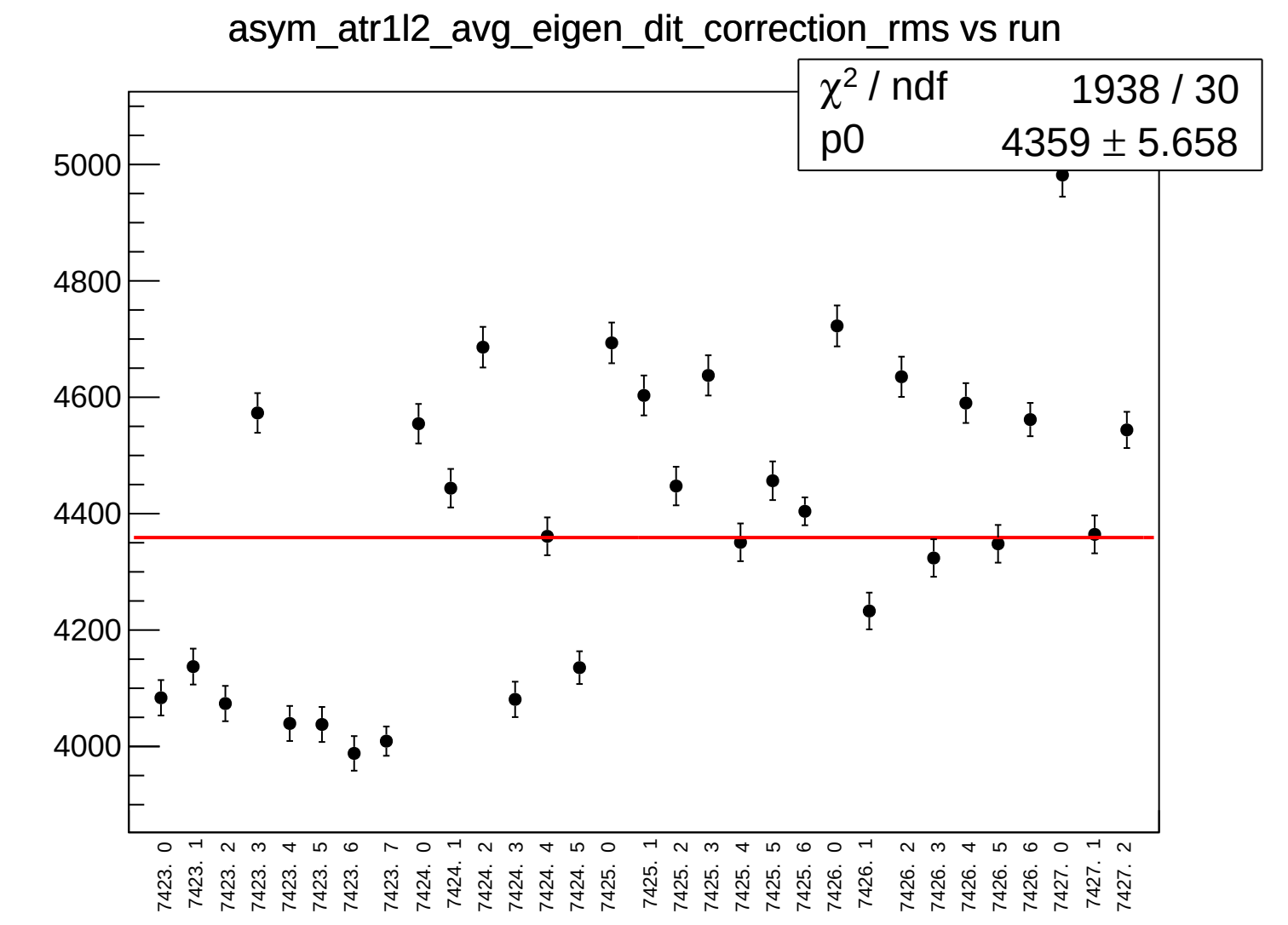

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 31.29 / 30
p0 −1275 ± 3275
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −47.49
Std Dev 0
2
1
0
−1
−2

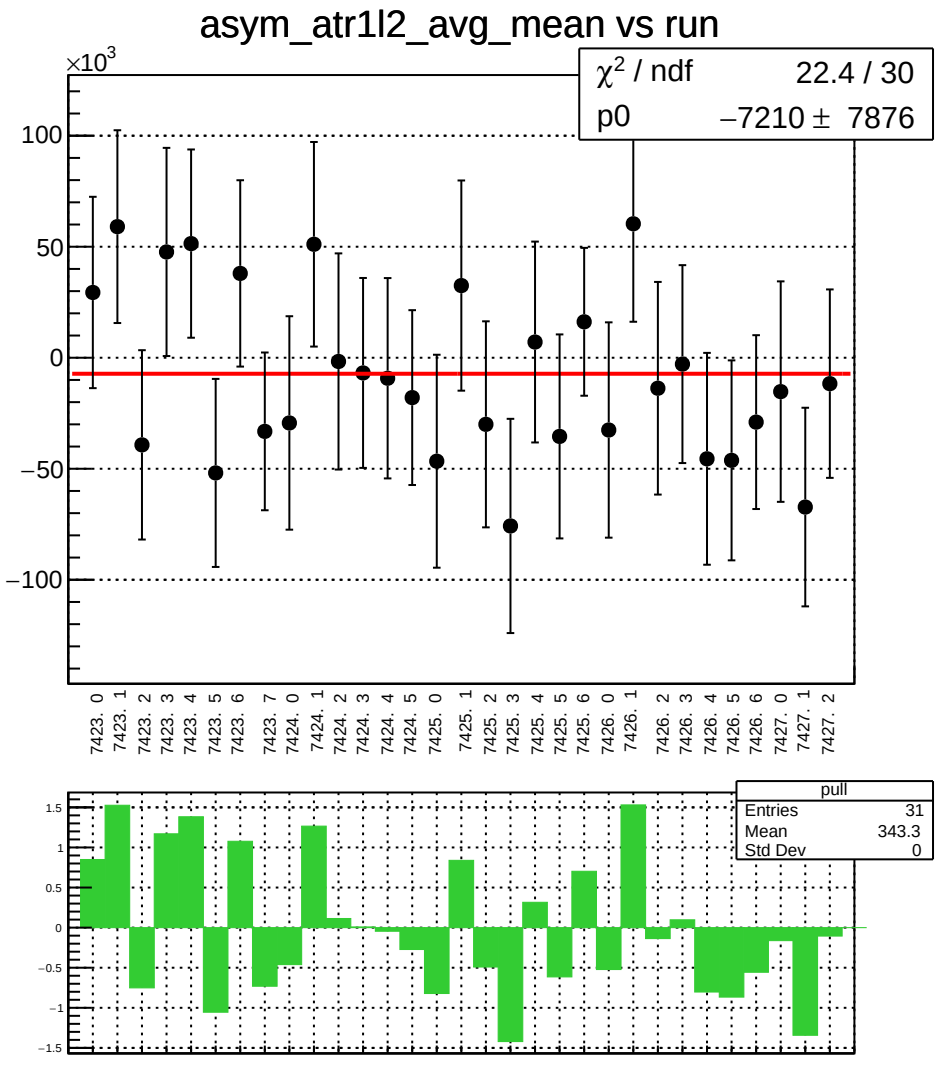

pull1D
Entries 31
Mean −0.01385
Std Dev 1.005
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

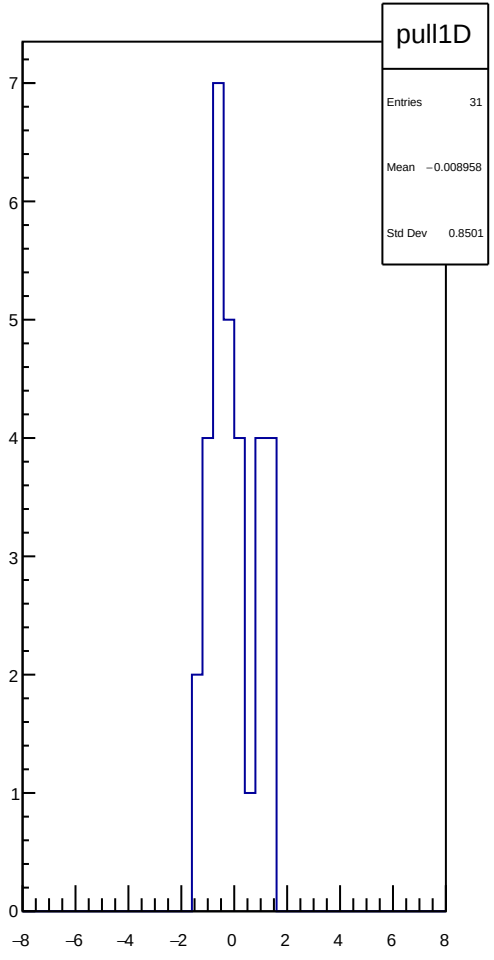

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 106.2 / 30
p0 1787 ± 2.316
1900
1880
1860
1840
1820
1800
1780
1760
1740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

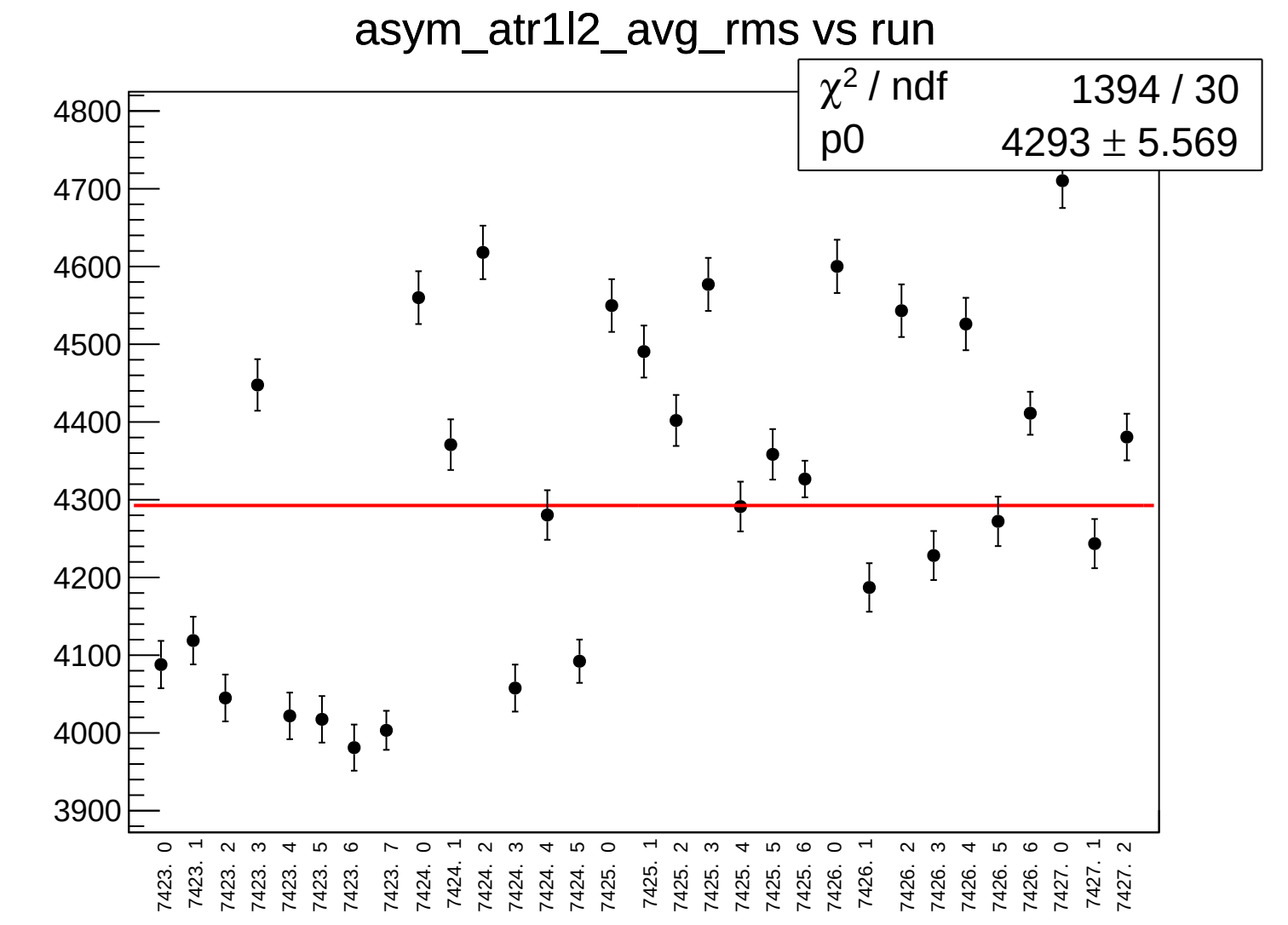

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 20.06 / 30
p0 5756 ± 8001
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 646.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

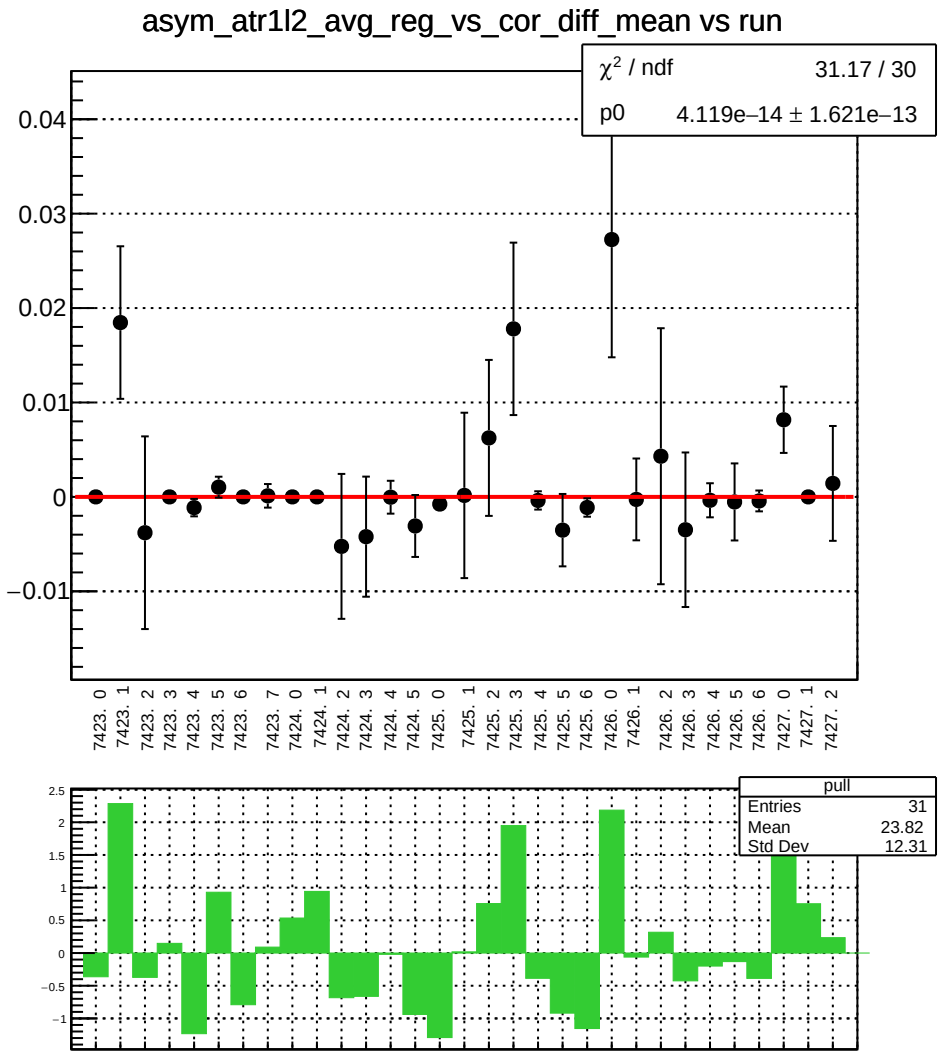

pull1D
Entries 31
Mean 0.005105
Std Dev 0.8043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

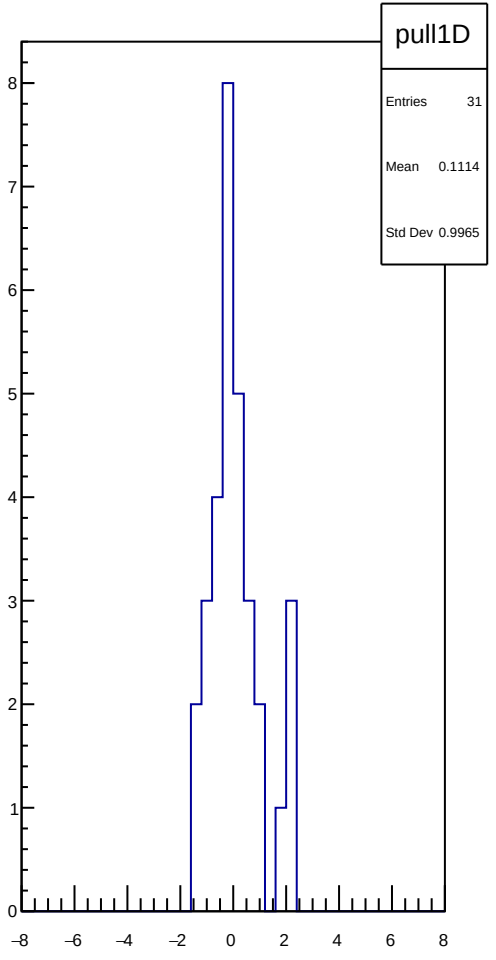

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1938 / 30
p0 4359 ± 5.658
5000
4800
4600
4400
4200
4000
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

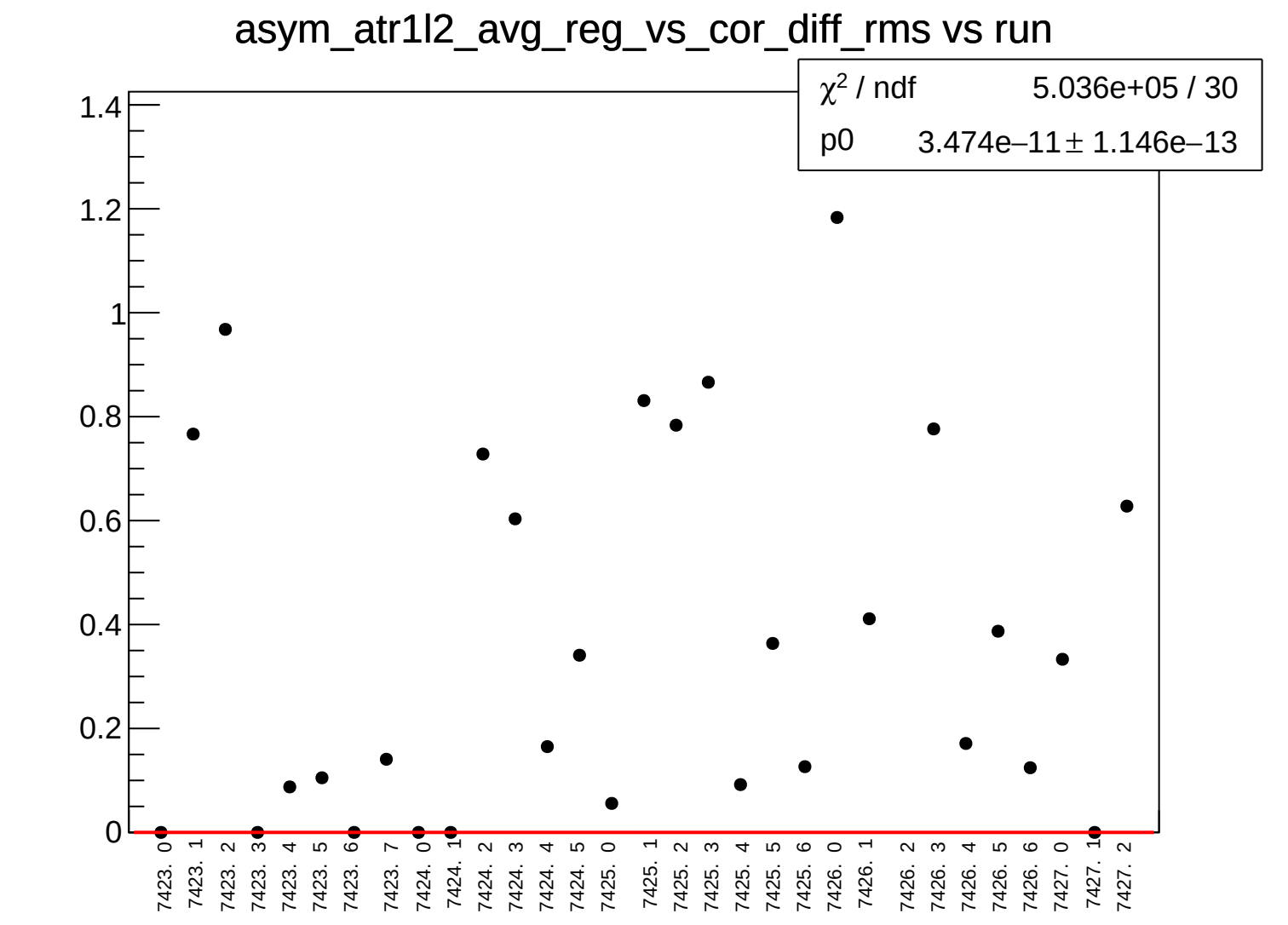

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 22.4 / 30
p0 −7210 ± 7876
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 343.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

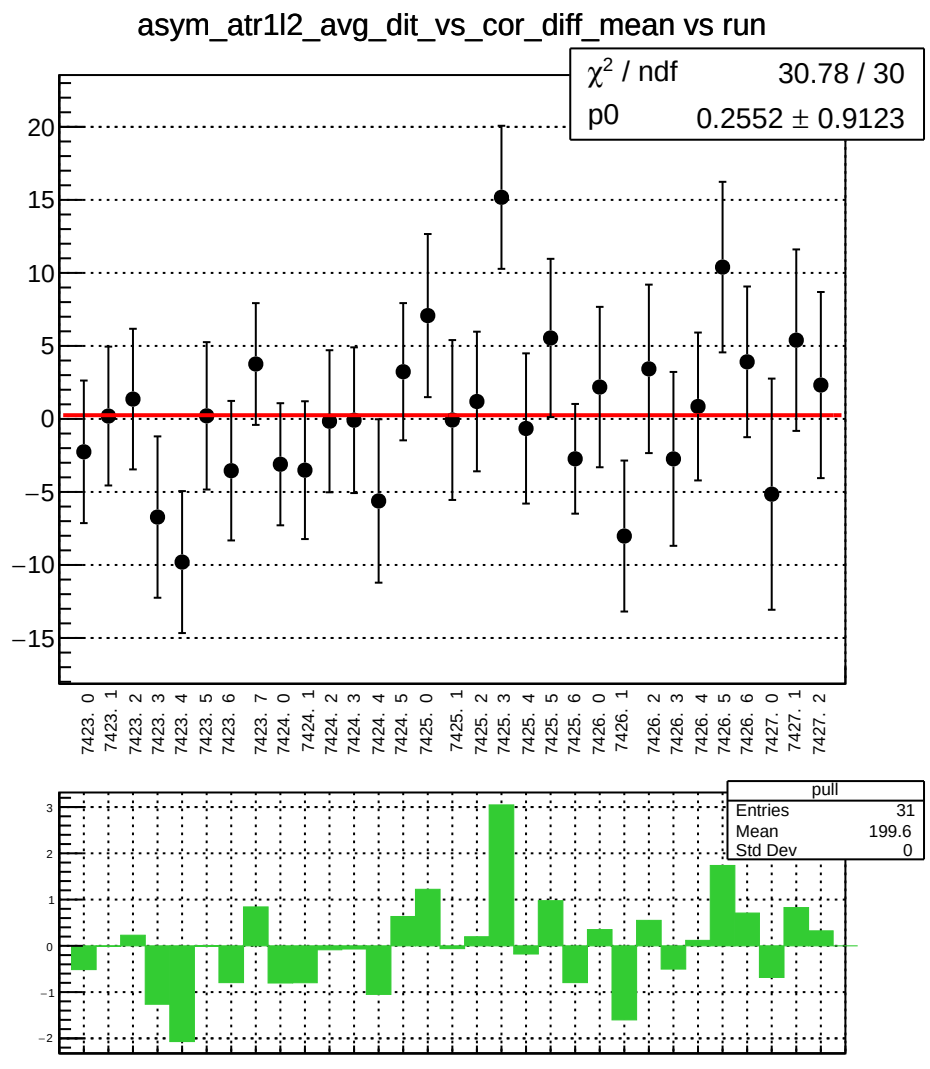

pull1D
Entries 31
Mean −0.008958
Std Dev 0.8501
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

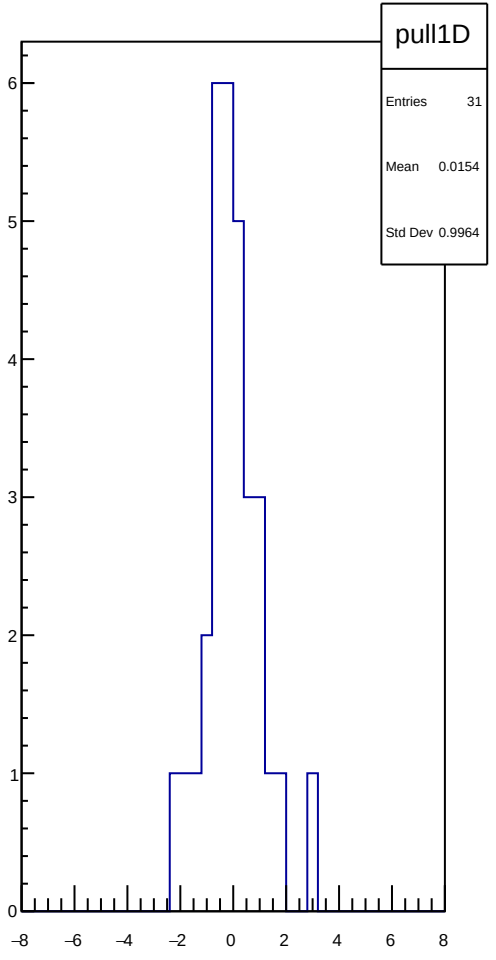

asym_atr1l2_avg_rms vs run
χ² / ndf 1394 / 30
p0 4293 ± 5.569
4800
4700
4600
4500
4400
4300
4200
4100
4000
3900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

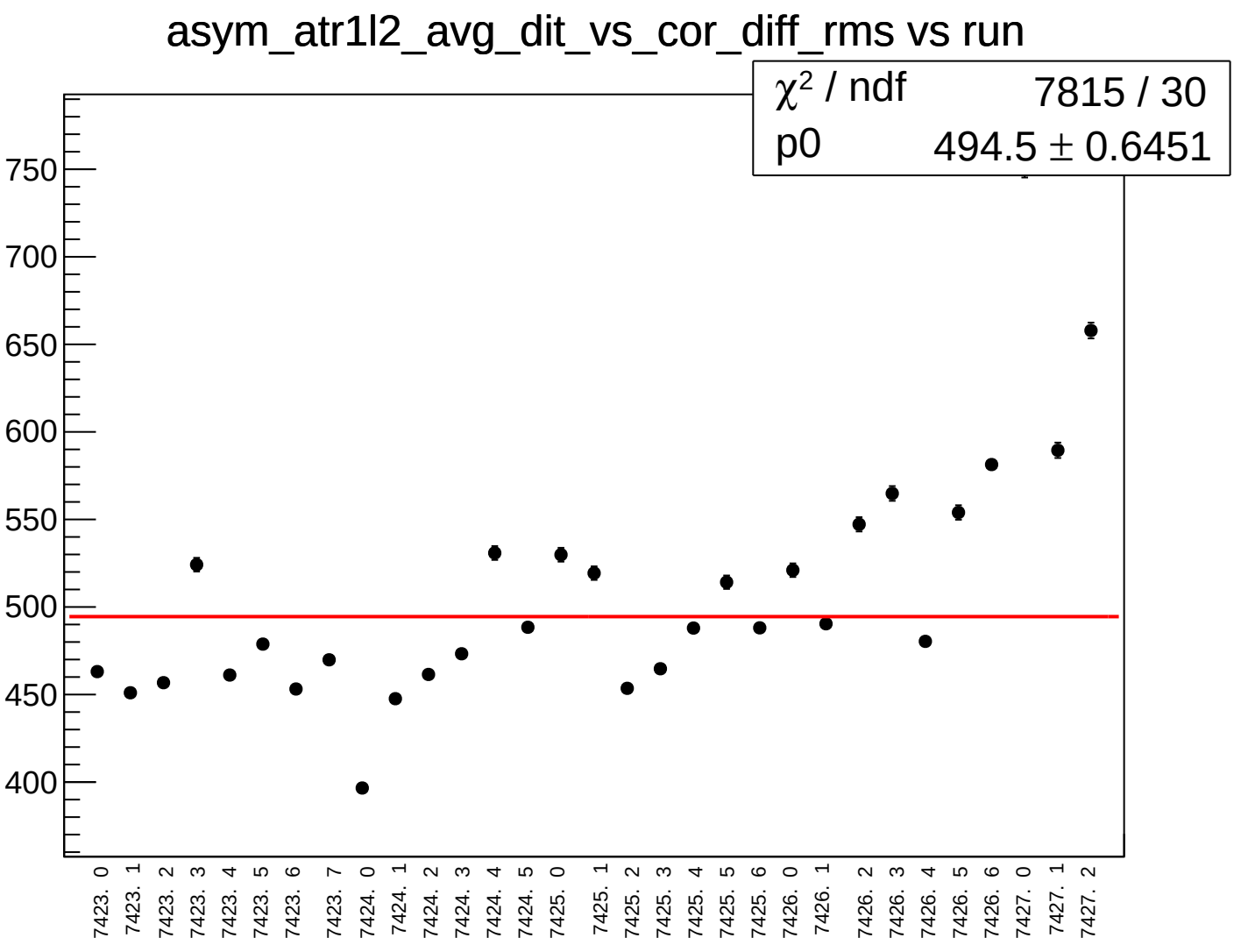

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 31.17 / 30
p0 4.119e−14 ± 1.621e−13
0.04
0.03
0.02
0.01
0
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 23.82
Std Dev 12.31
2.5
2
1.5
1
0.5
0
−0.5
−1

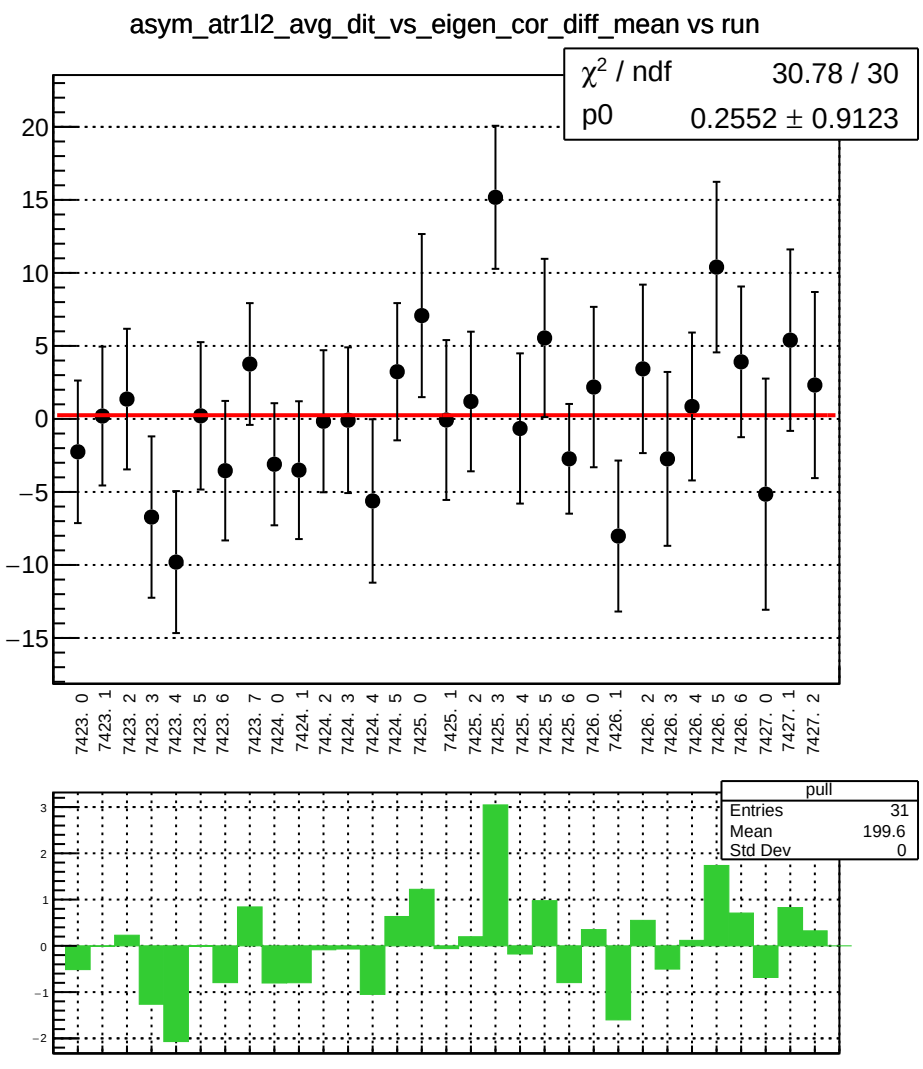

pull1D
Entries 31
Mean 0.1114
Std Dev 0.9965
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

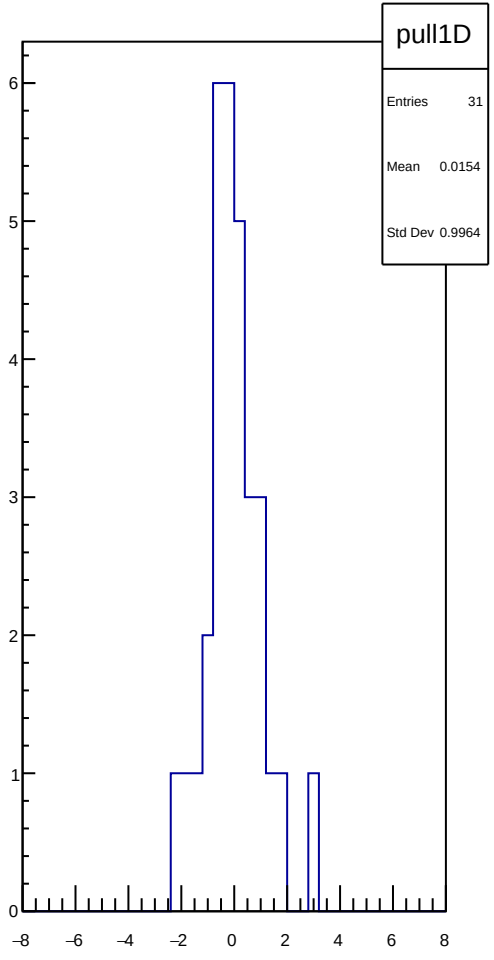

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.036e+05 / 30
p0 3.474e−11 ± 1.146e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

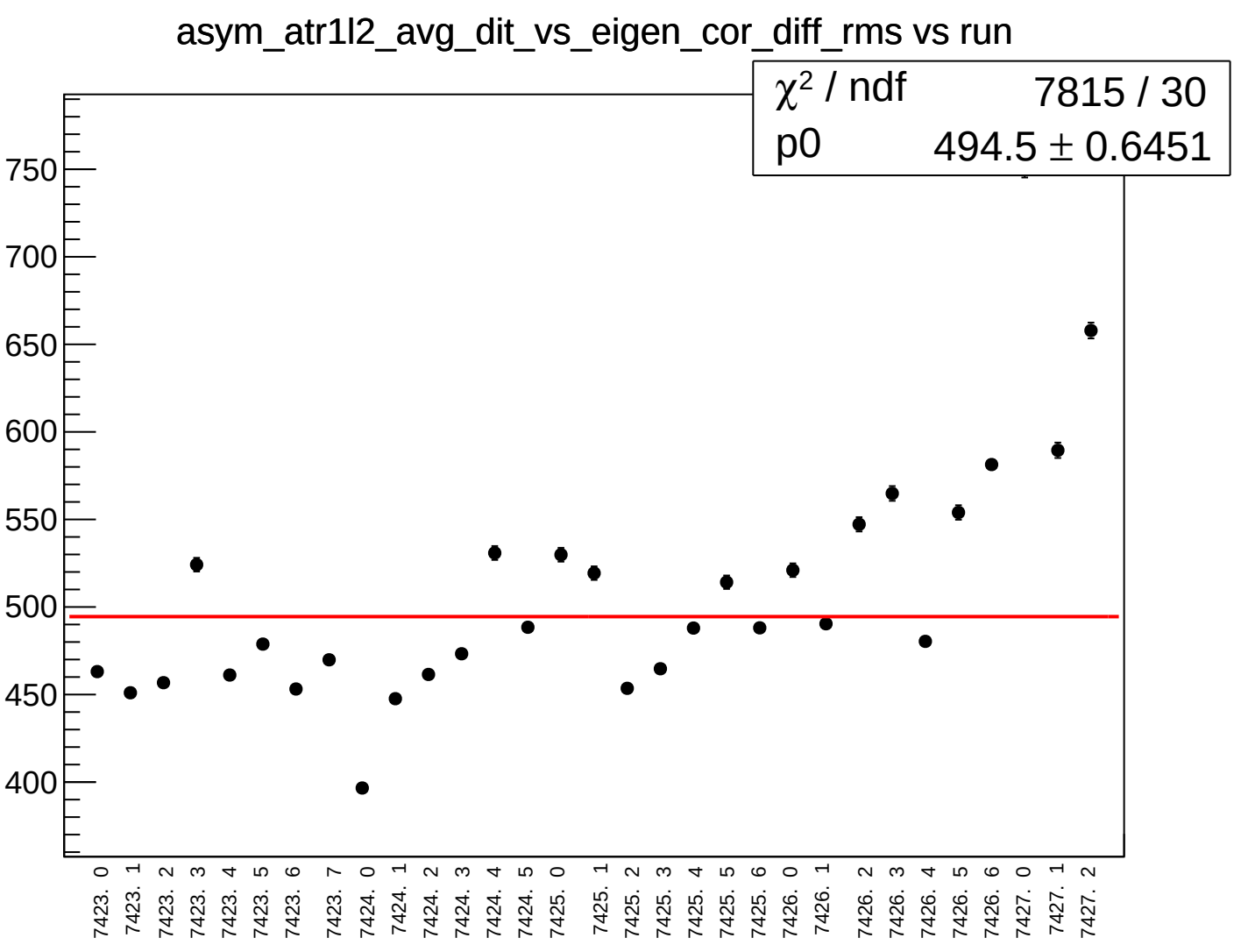

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 30.78 / 30
p0 0.2552 ± 0.9123
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 199.6
Std Dev 0
3
2
1
0
−1
−2

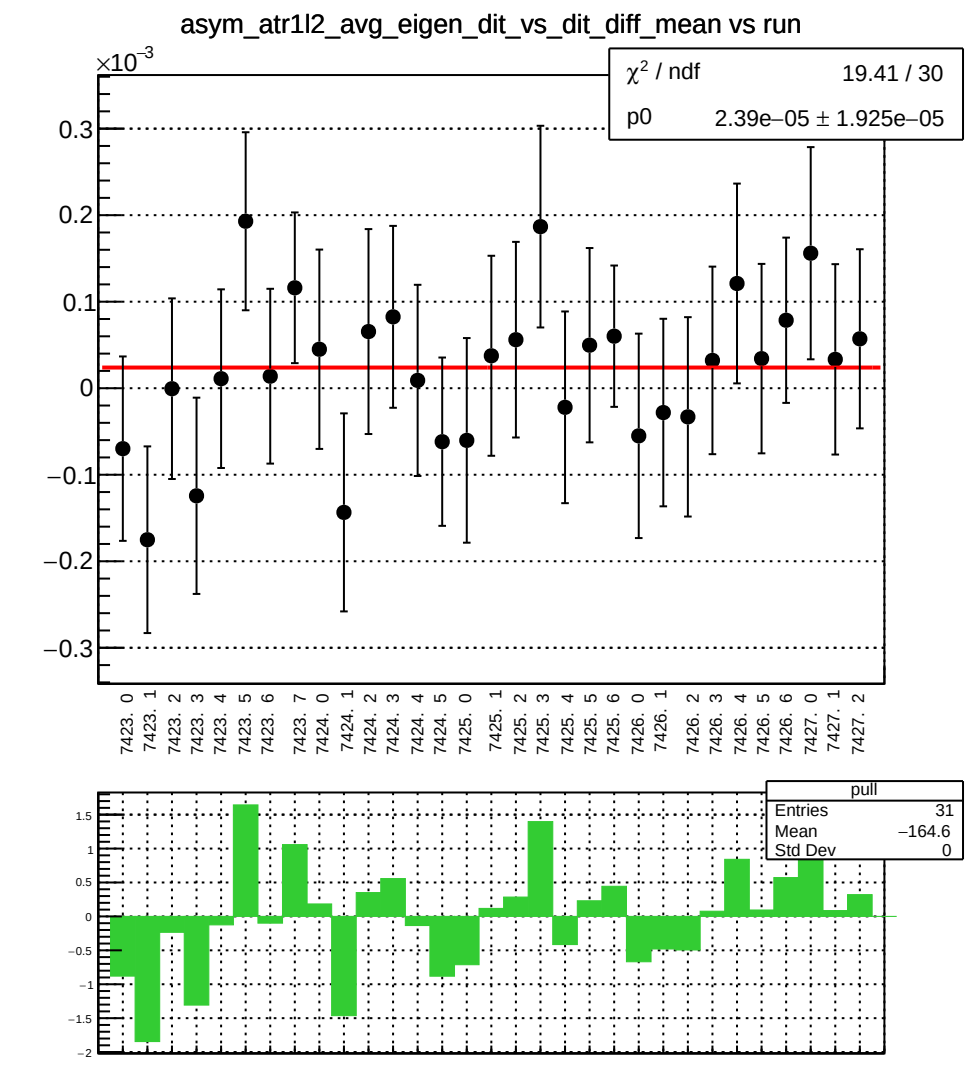

pull1D
Entries 31
Mean 0.0154
Std Dev 0.9964
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

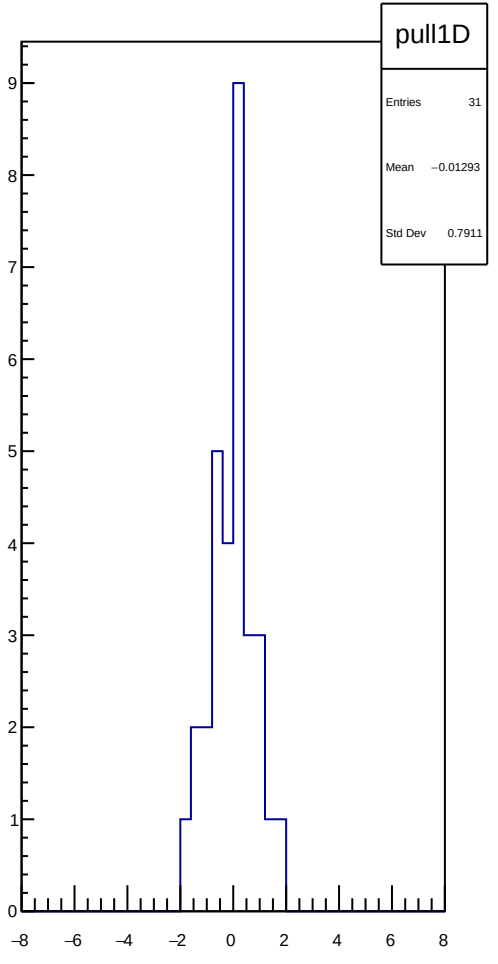

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7815 / 30
p0 494.5 ± 0.6451
750
700
650
600
550
500
450
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

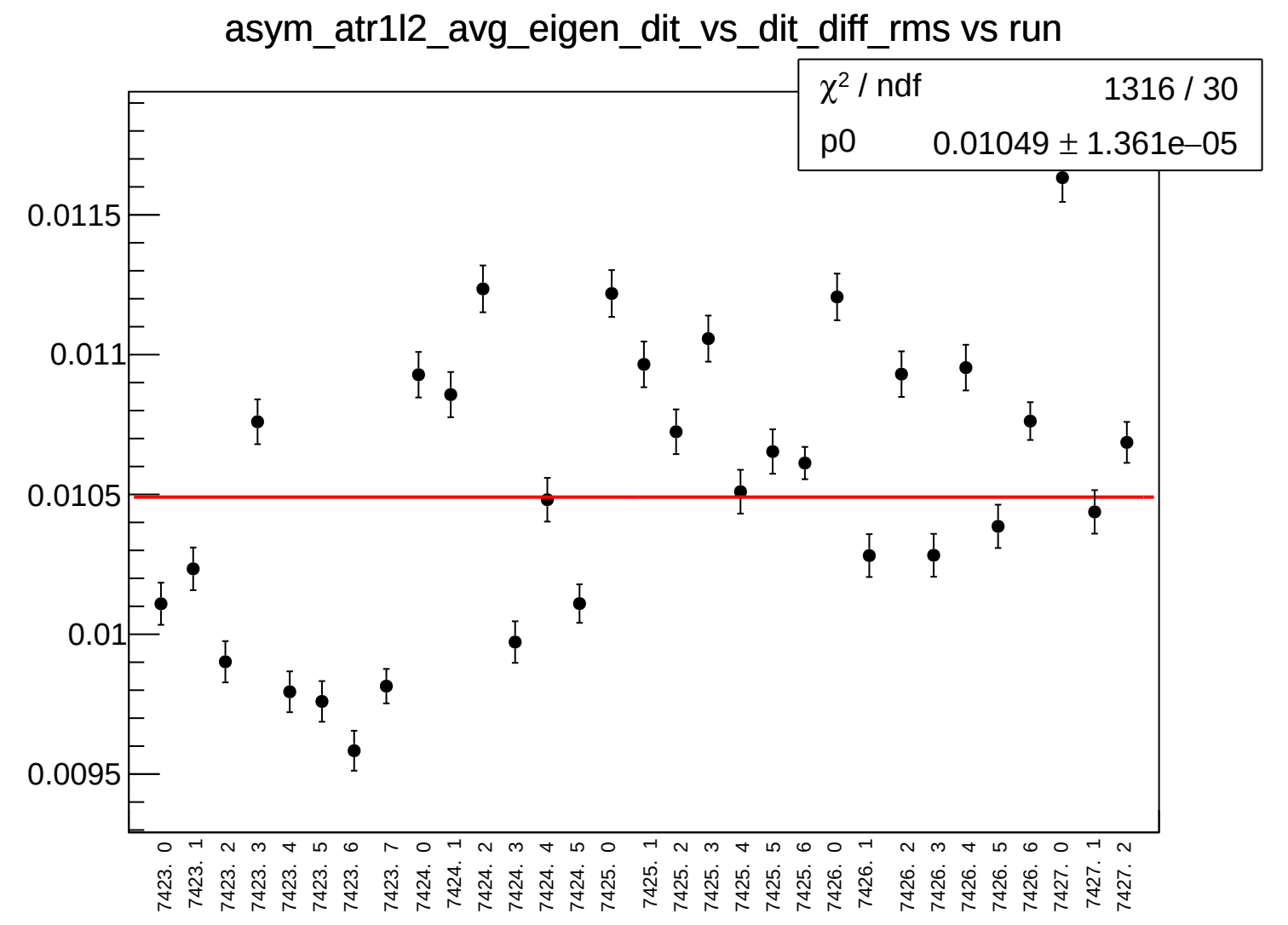

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.78 / 30
p0 0.2552 ± 0.9123
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 199.6
Std Dev 0
3
2
1
0
−1
−2

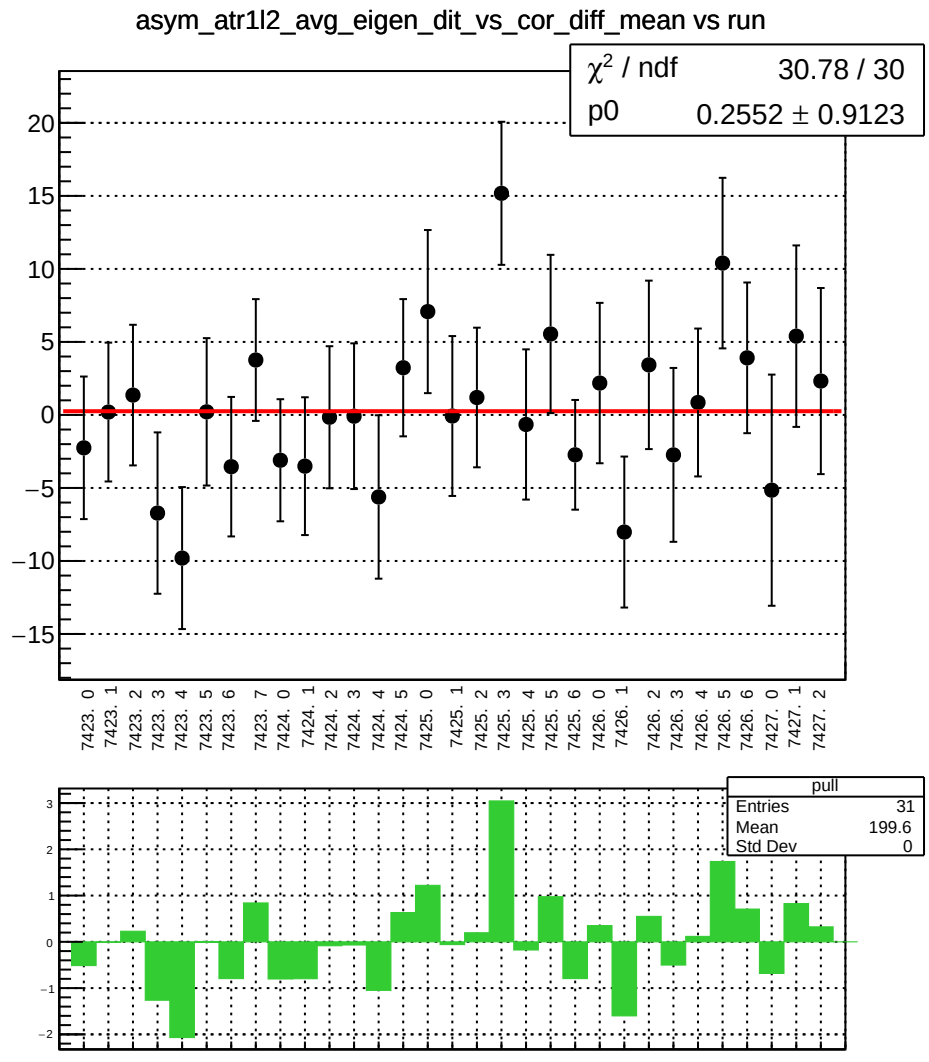

pull1D
Entries 31
Mean 0.0154
Std Dev 0.9964
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

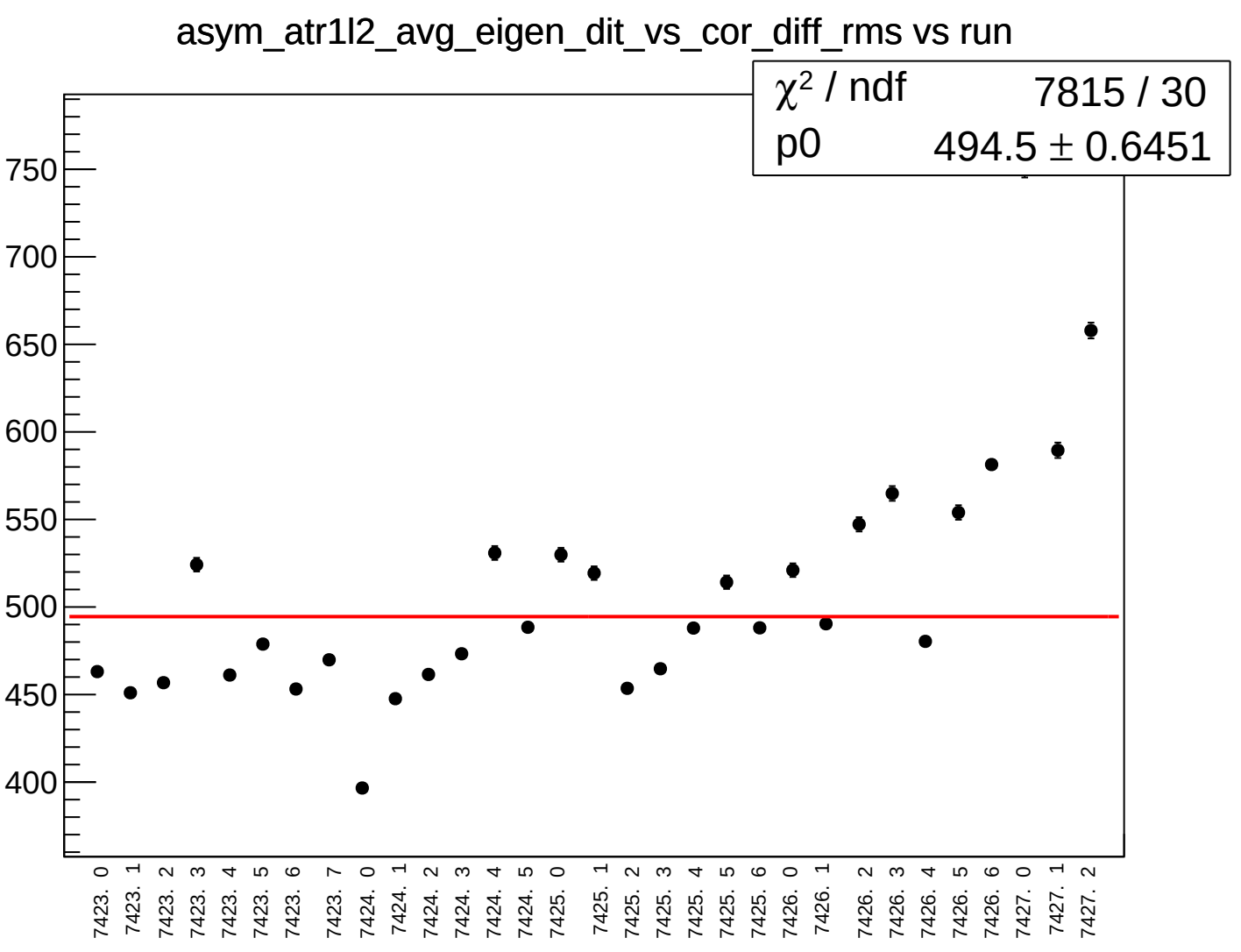

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7815 / 30
p0 494.5 ± 0.6451
750
700
650
600
550
500
450
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

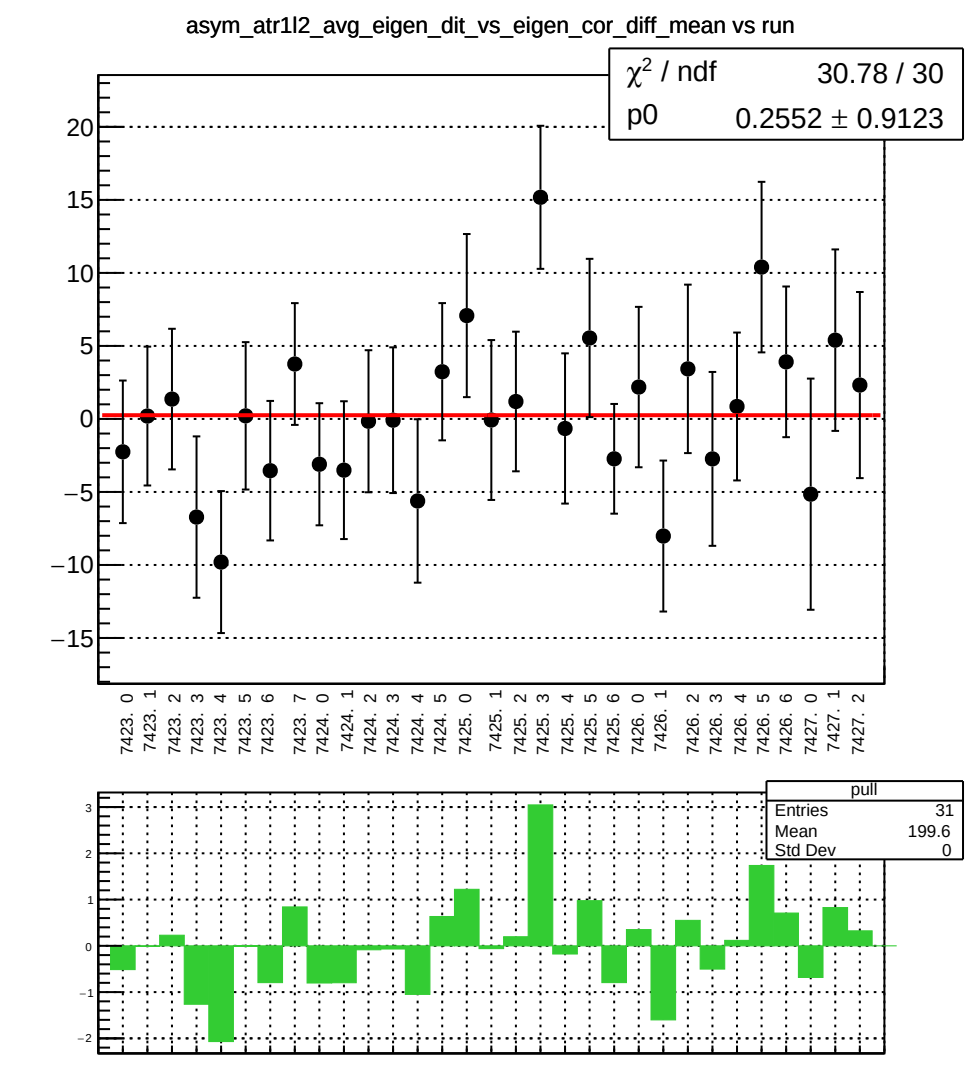

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.41 / 30
p0 2.39e−05 ± 1.925e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −164.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

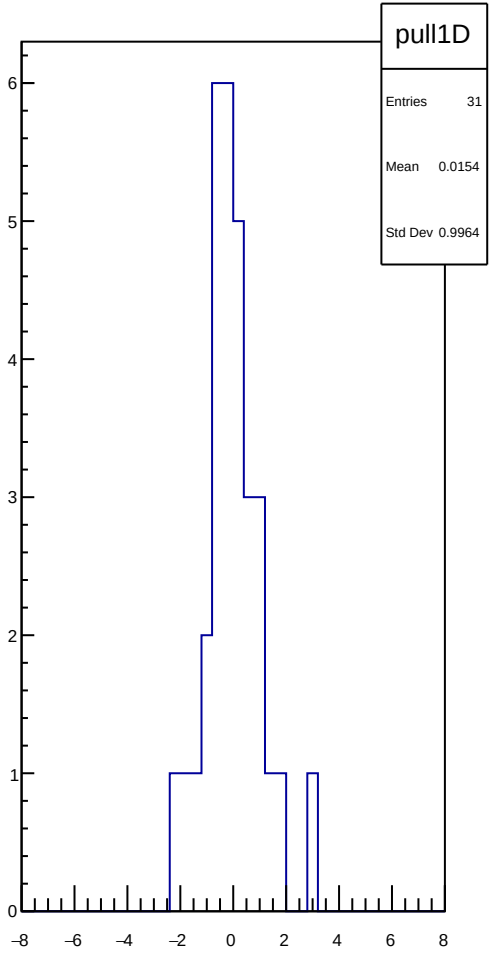

pull1D
Entries 31
Mean −0.01293
Std Dev 0.7911
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

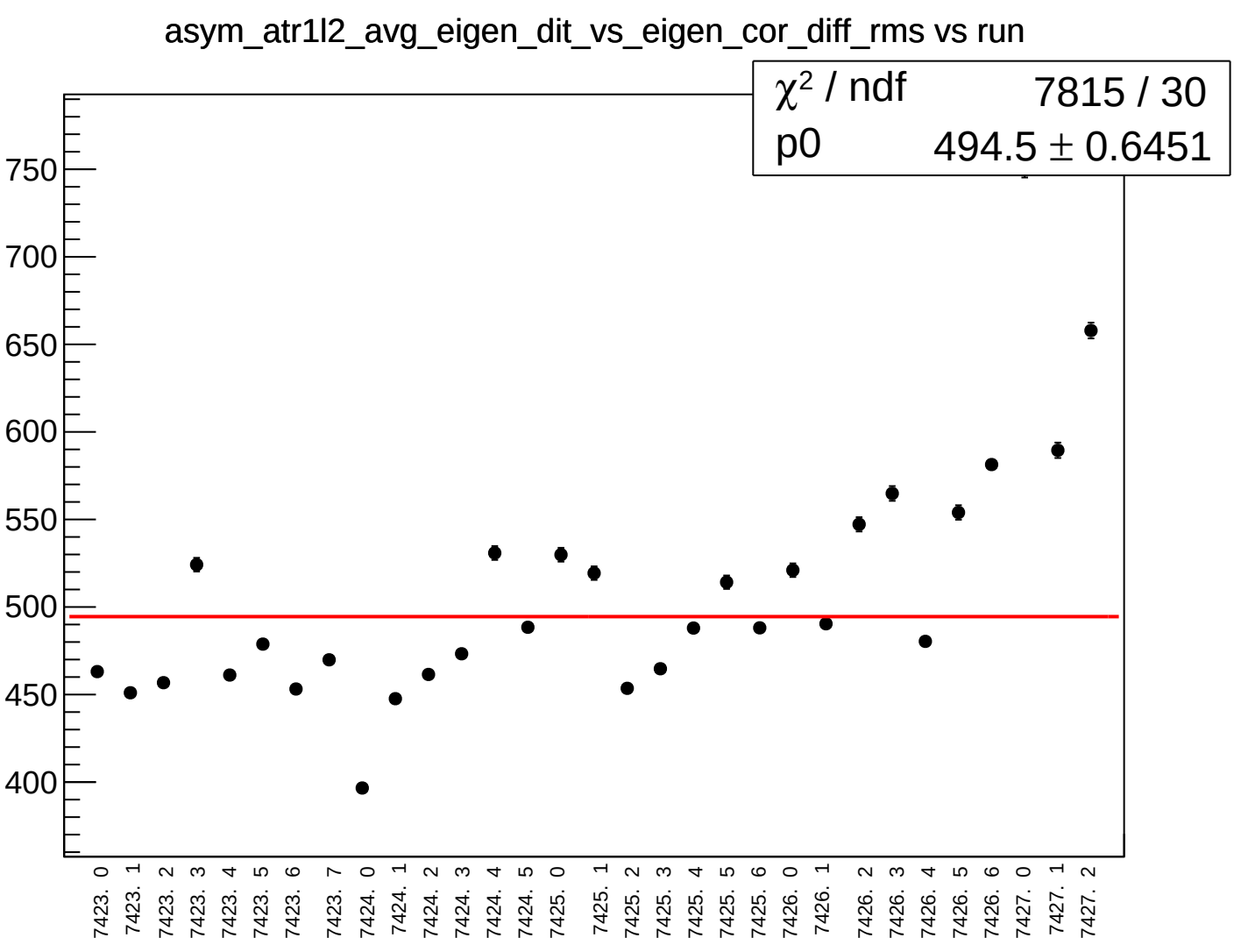

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1316 / 30
p0 0.01049 ± 1.361e–05
0.0115
0.011
0.0105
0.01
0.0095
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

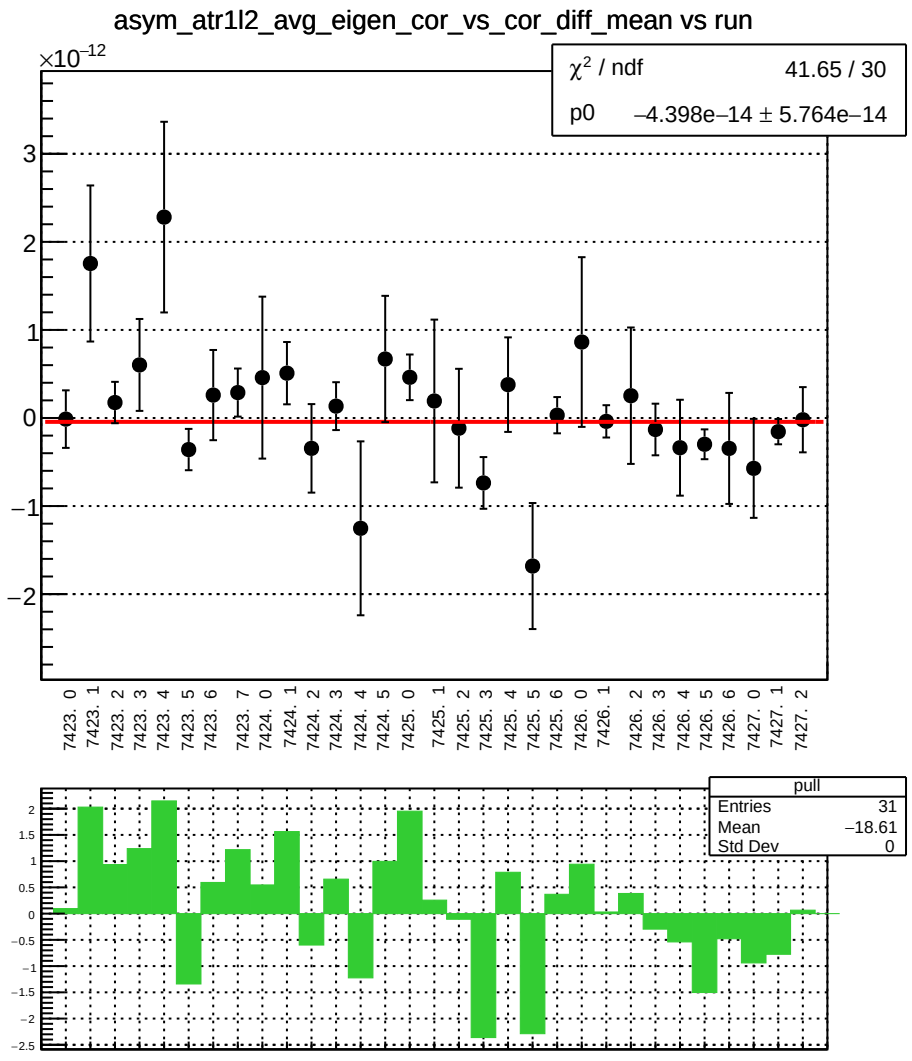

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.78 / 30
p0 0.2552 ± 0.9123
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 199.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.0154
Std Dev 0.9964
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

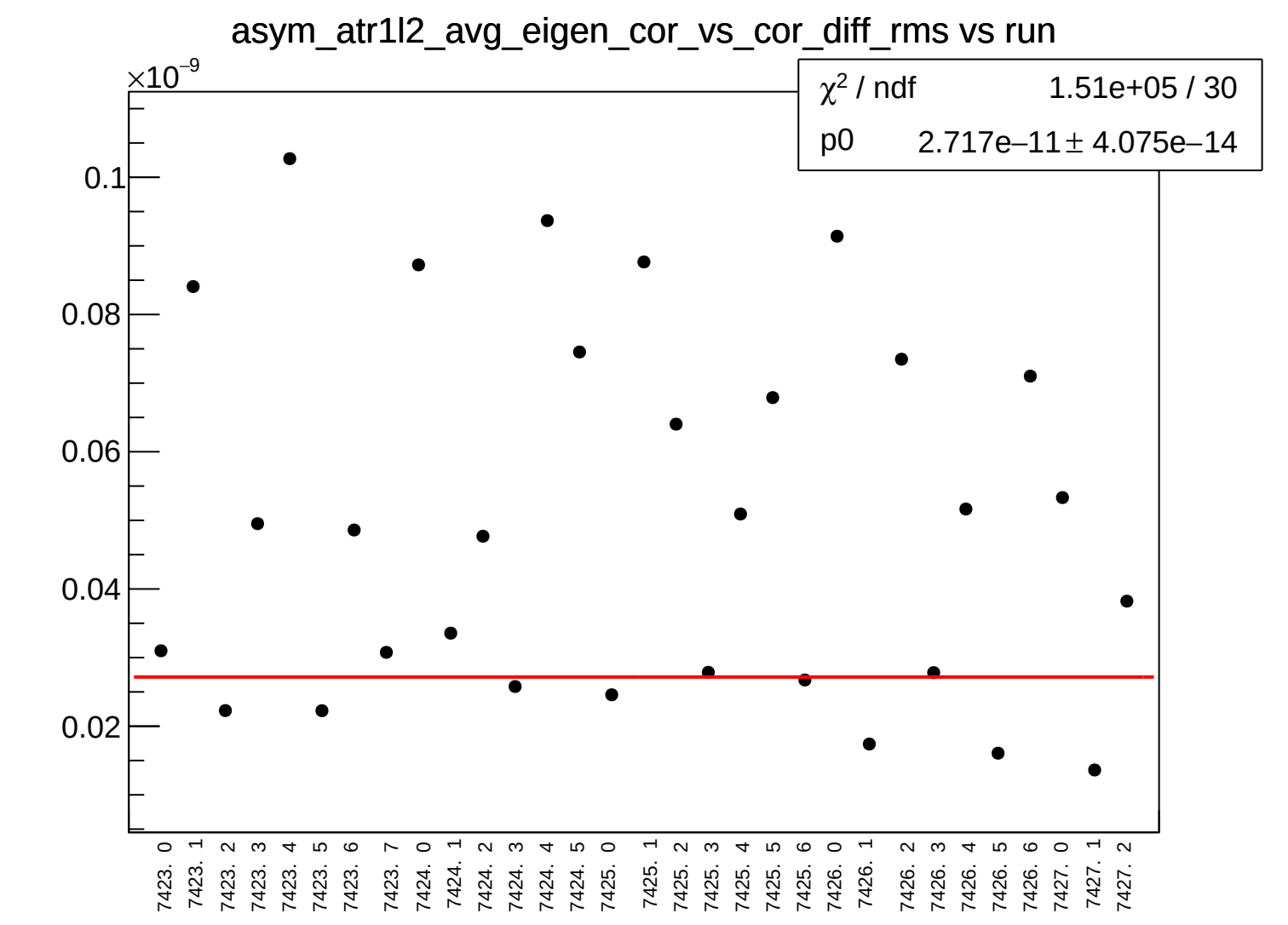

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7815 / 30
p0 494.5 ± 0.6451
750
700
650
600
550
500
450
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

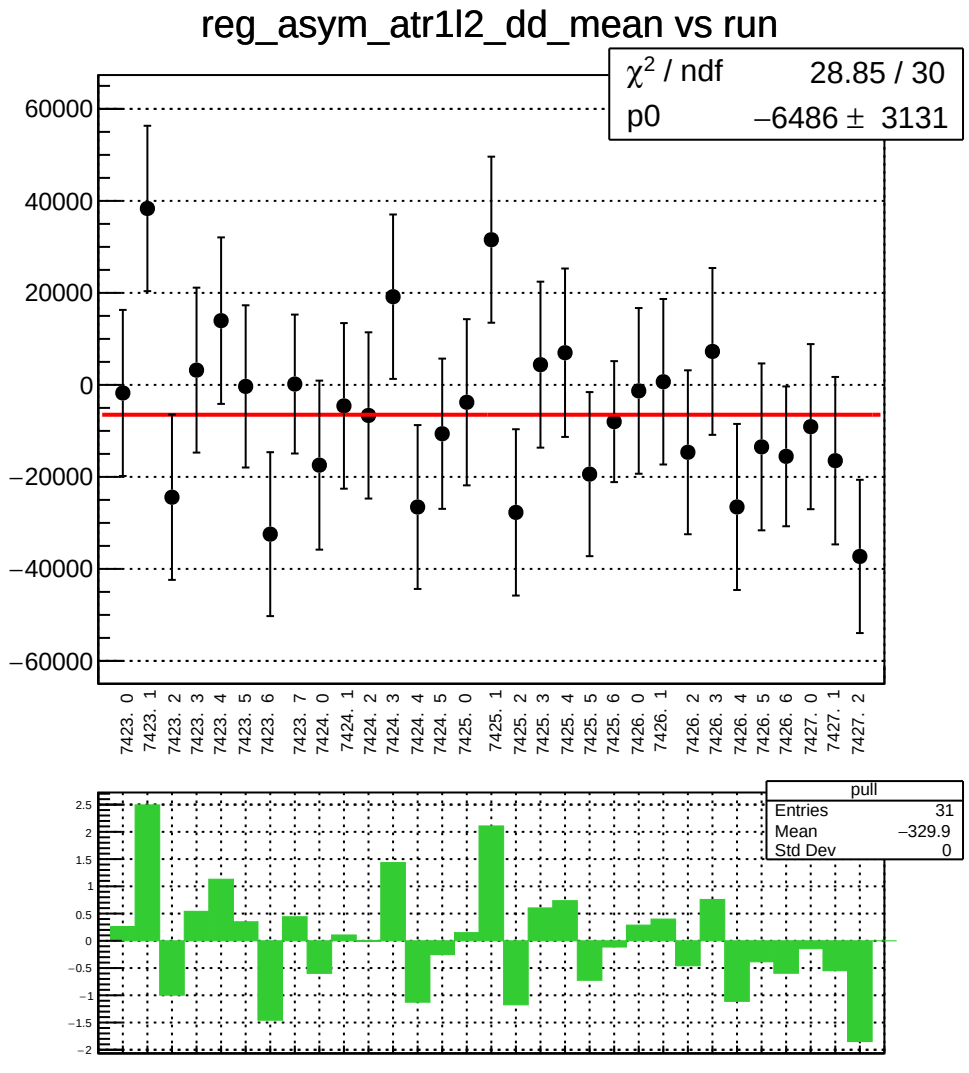

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.78 / 30
p0 0.2552 ± 0.9123
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 199.6
Std Dev 0
3
2
1
0
−1
−2

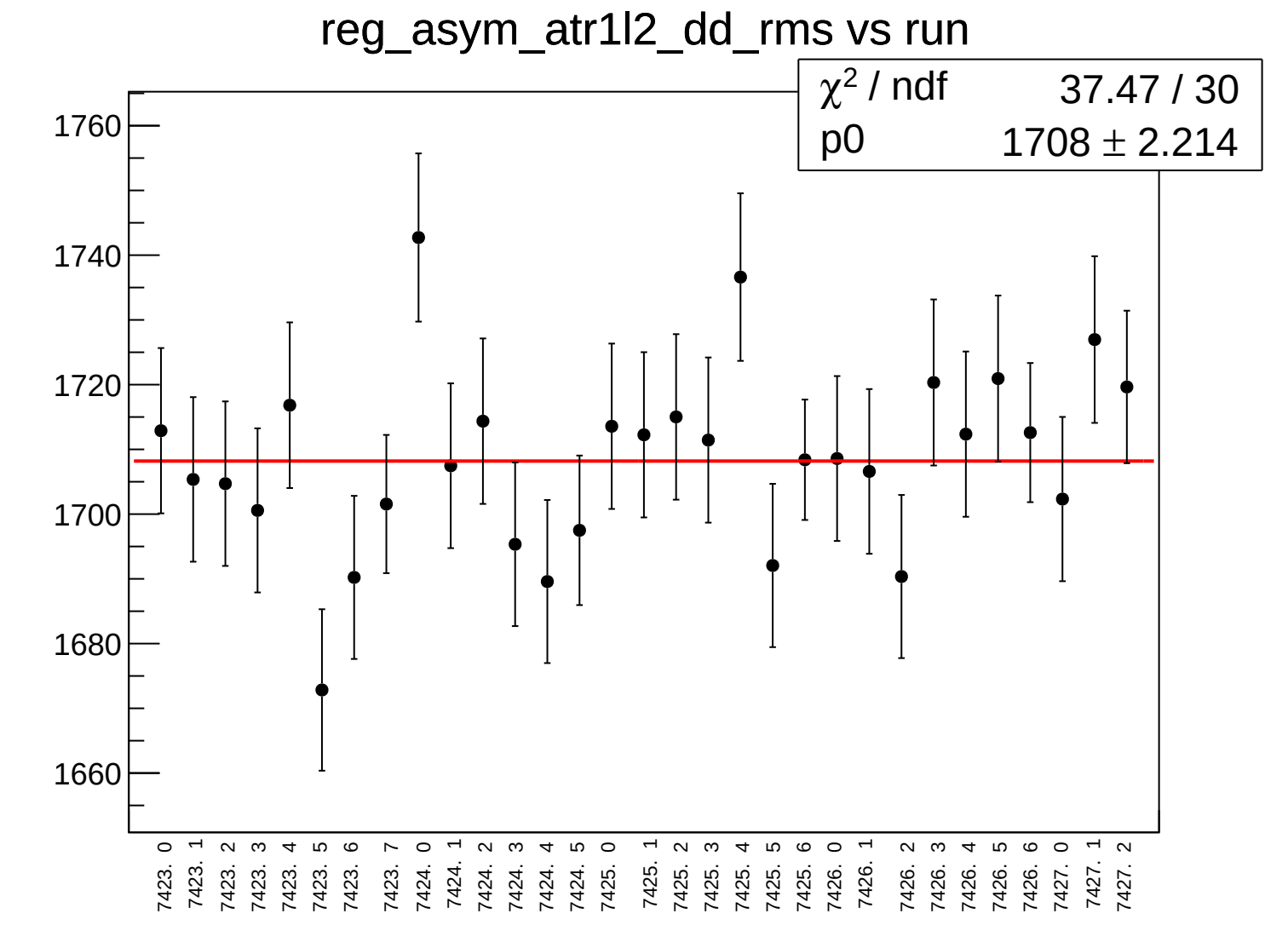

pull1D
Entries 31
Mean 0.0154
Std Dev 0.9964
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

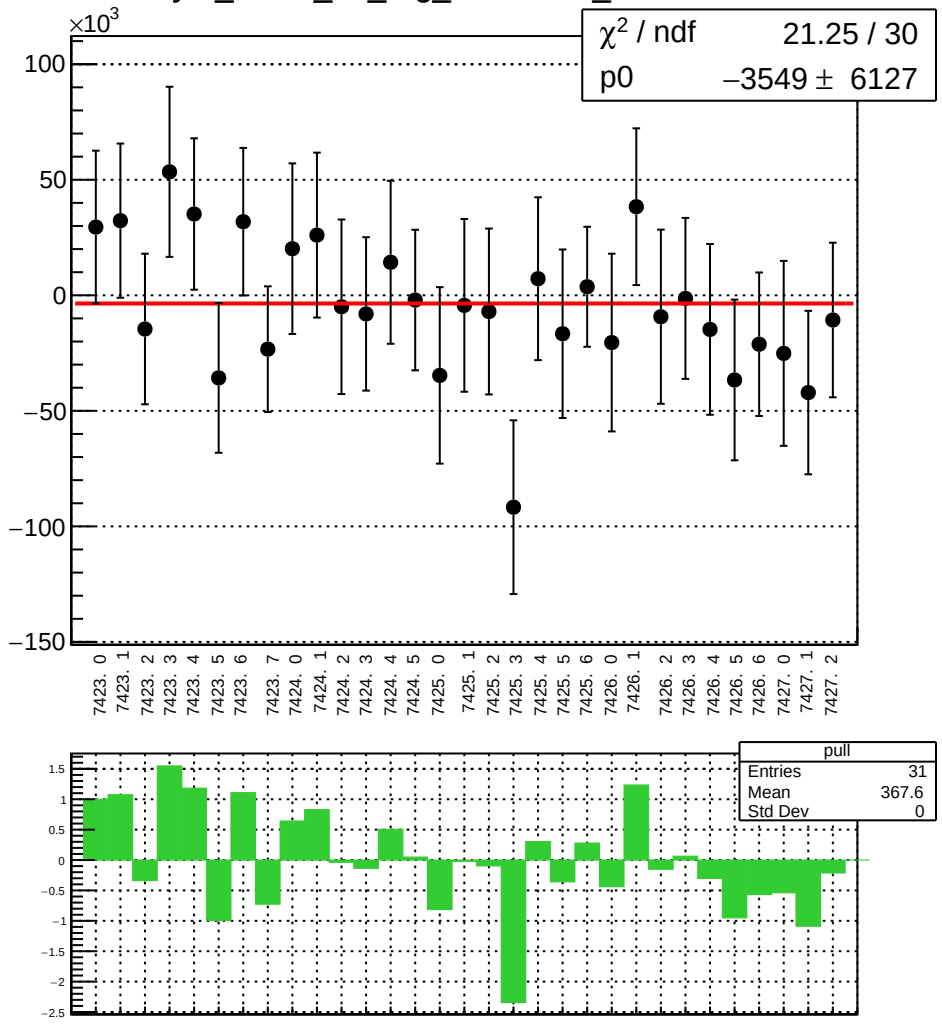

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7815 / 30
p0 494.5 ± 0.6451
750
700
650
600
550
500
450
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

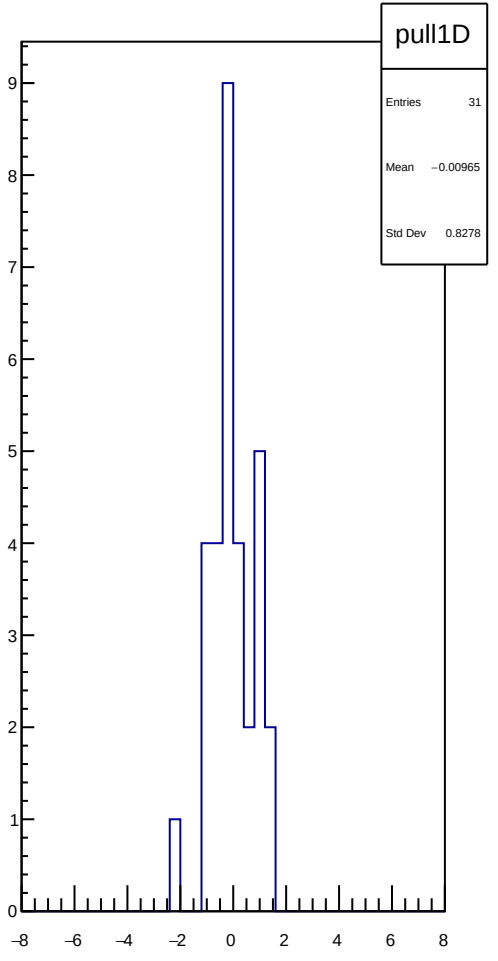

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.65 / 30
p0 −4.398e−14 ± 5.764e−14
3
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −18.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.1405
Std Dev 1.151
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

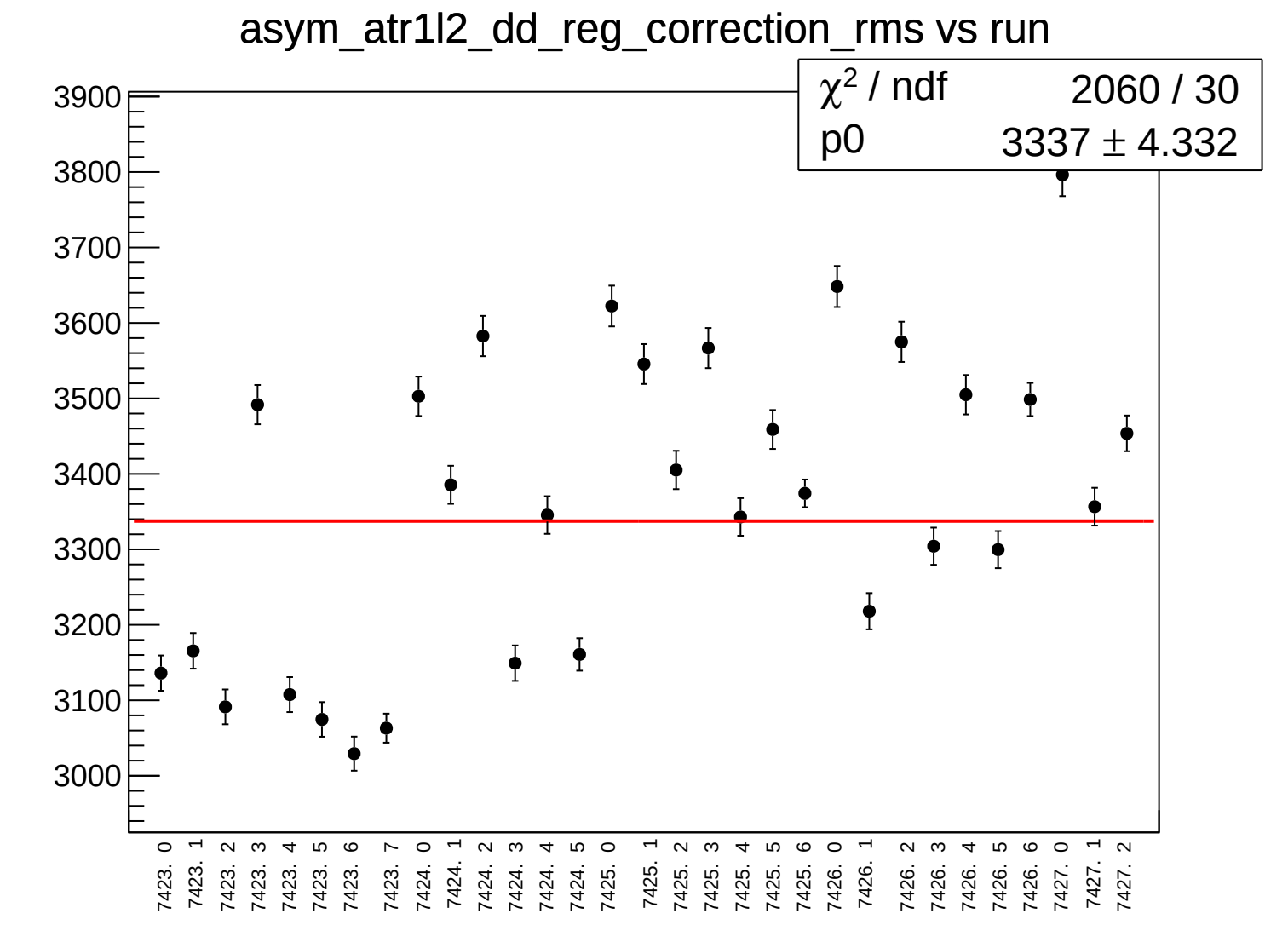

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.51e+05 / 30
p0 2.717e−11 ± 4.075e−14
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

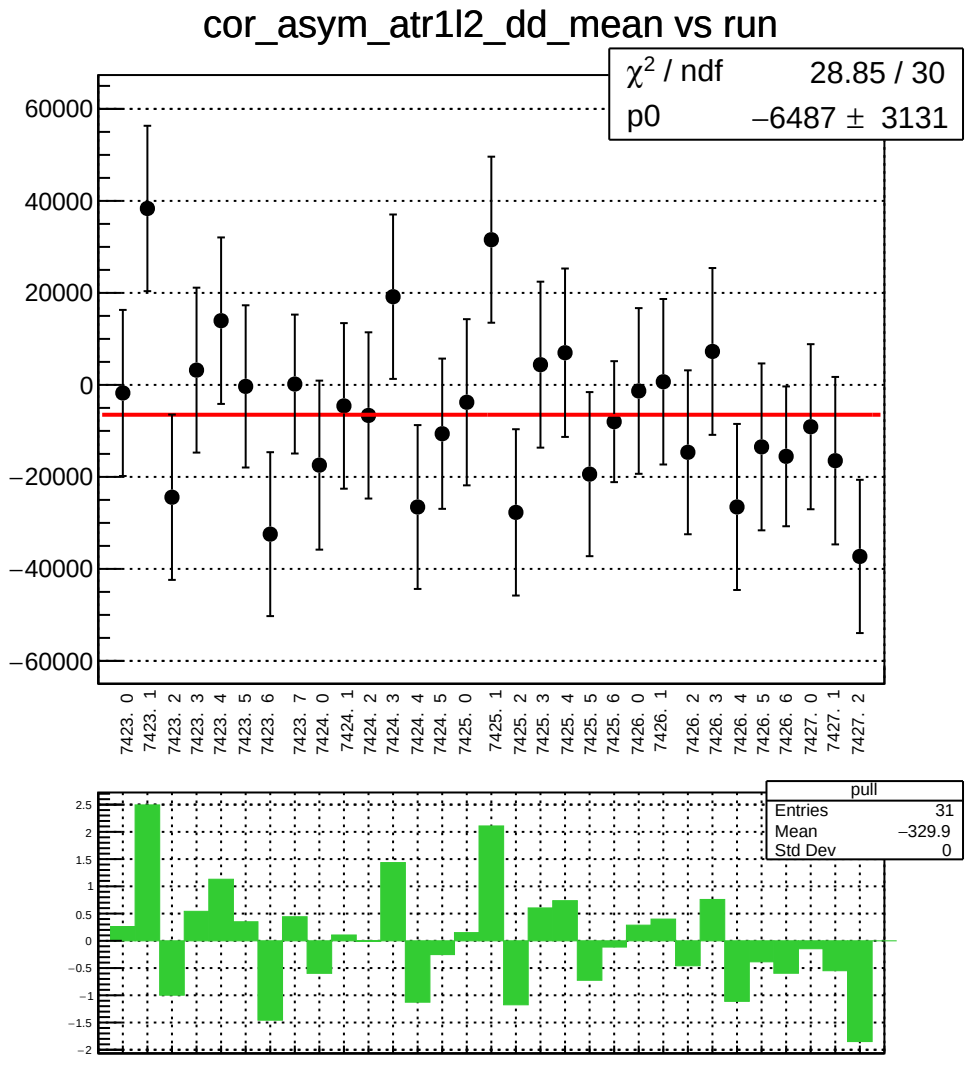

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 28.85 / 30
p0 −6486 ± 3131
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −329.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.00845
Std Dev 0.9647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

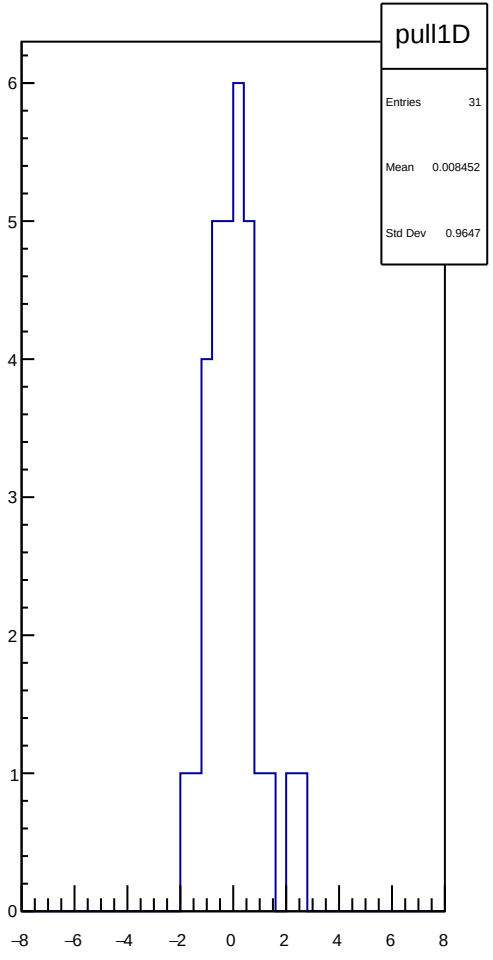

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 37.47 / 30
p0 1708 ± 2.214
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

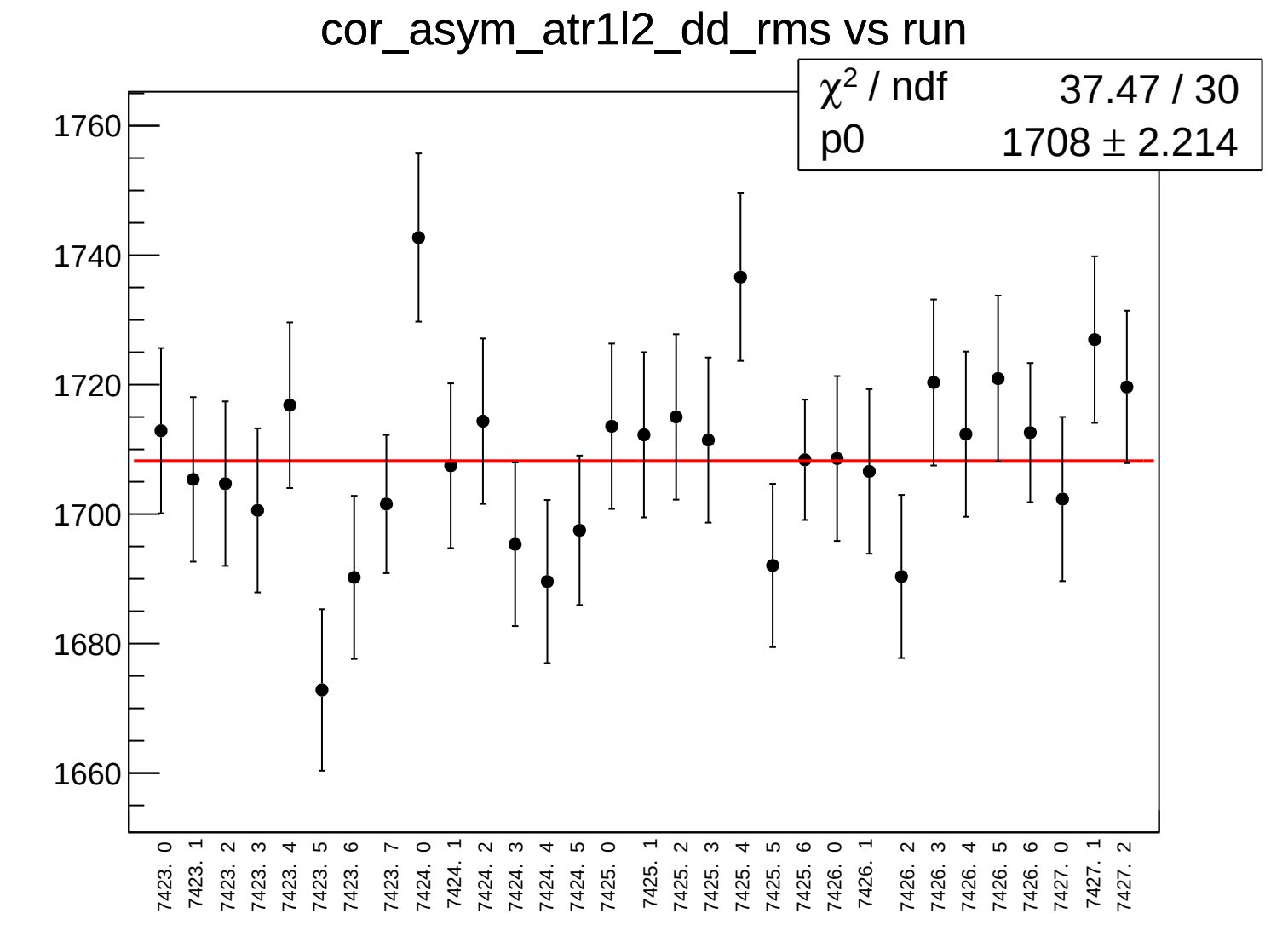

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 21.25 / 30
p0 −3549 ± 6127
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 367.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

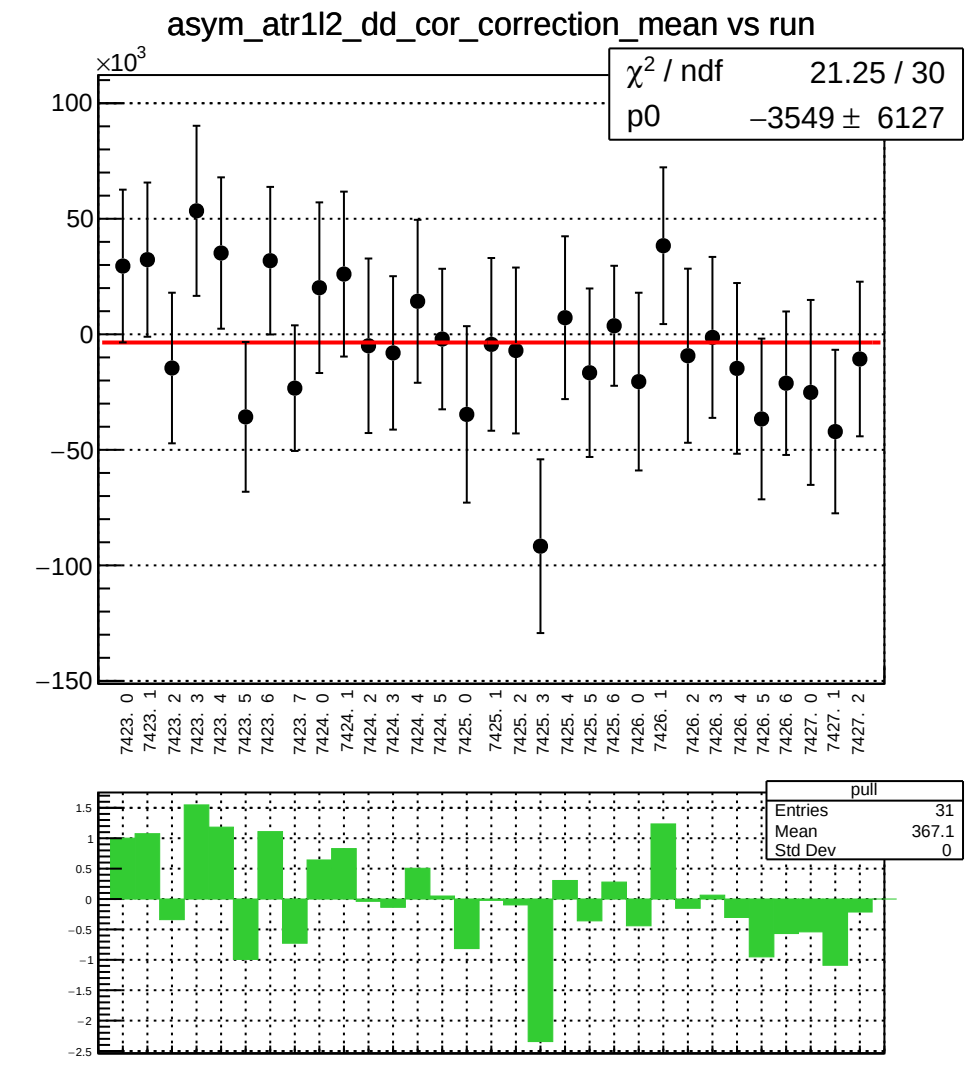

pull1D
Entries 31
Mean −0.00965
Std Dev 0.8278
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

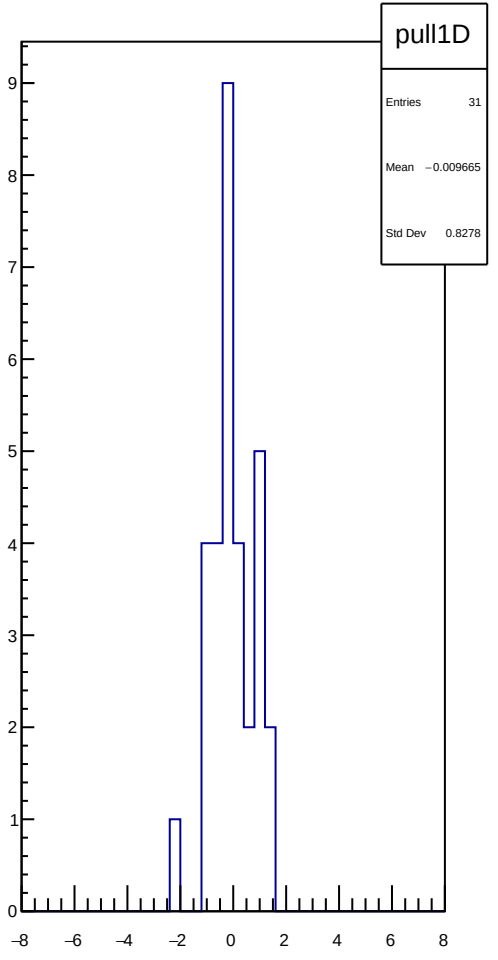

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2060 / 30
p0 3337 ± 4.332
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

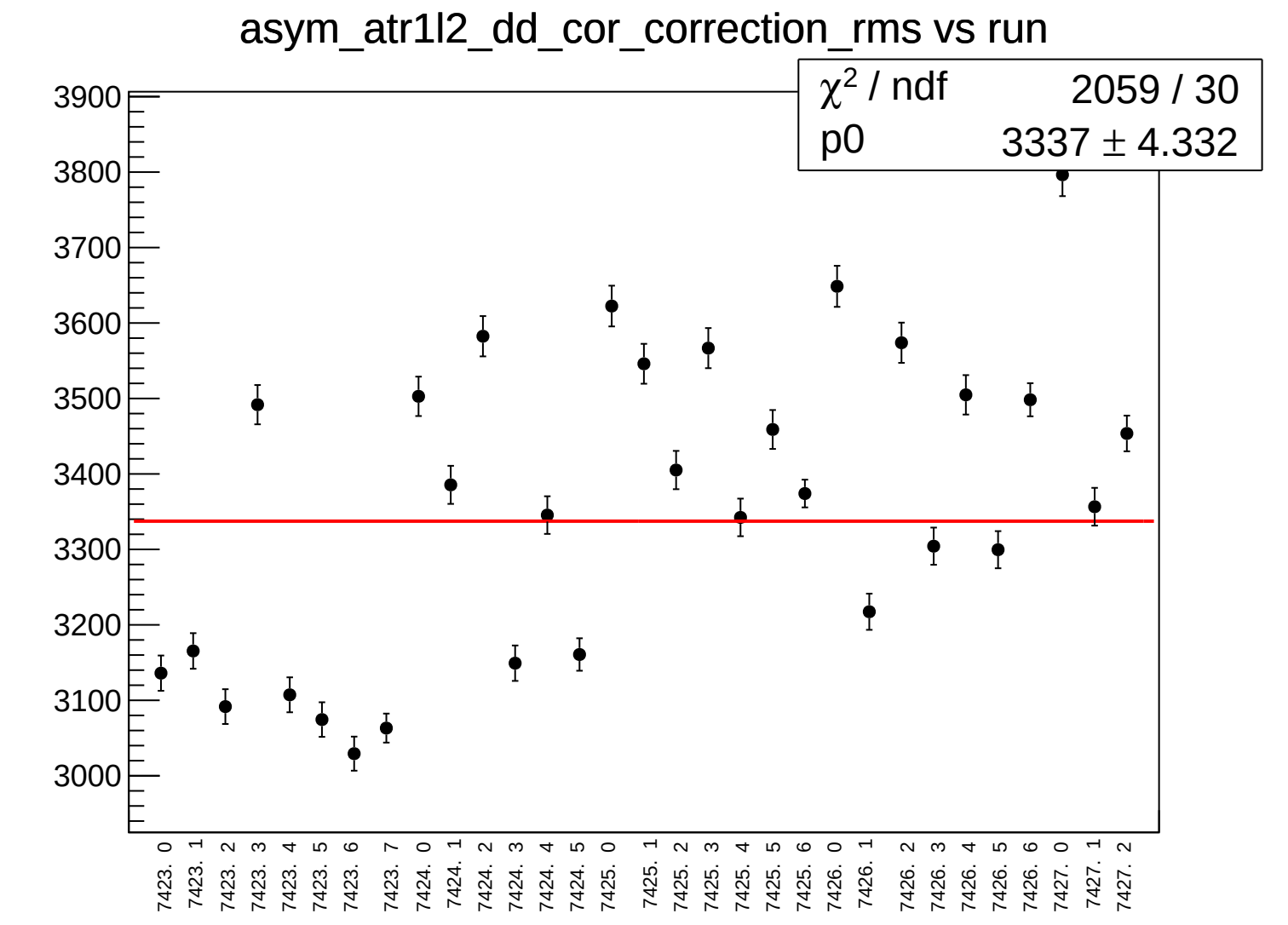

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 28.85 / 30
p0 −6487 ± 3131
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −329.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

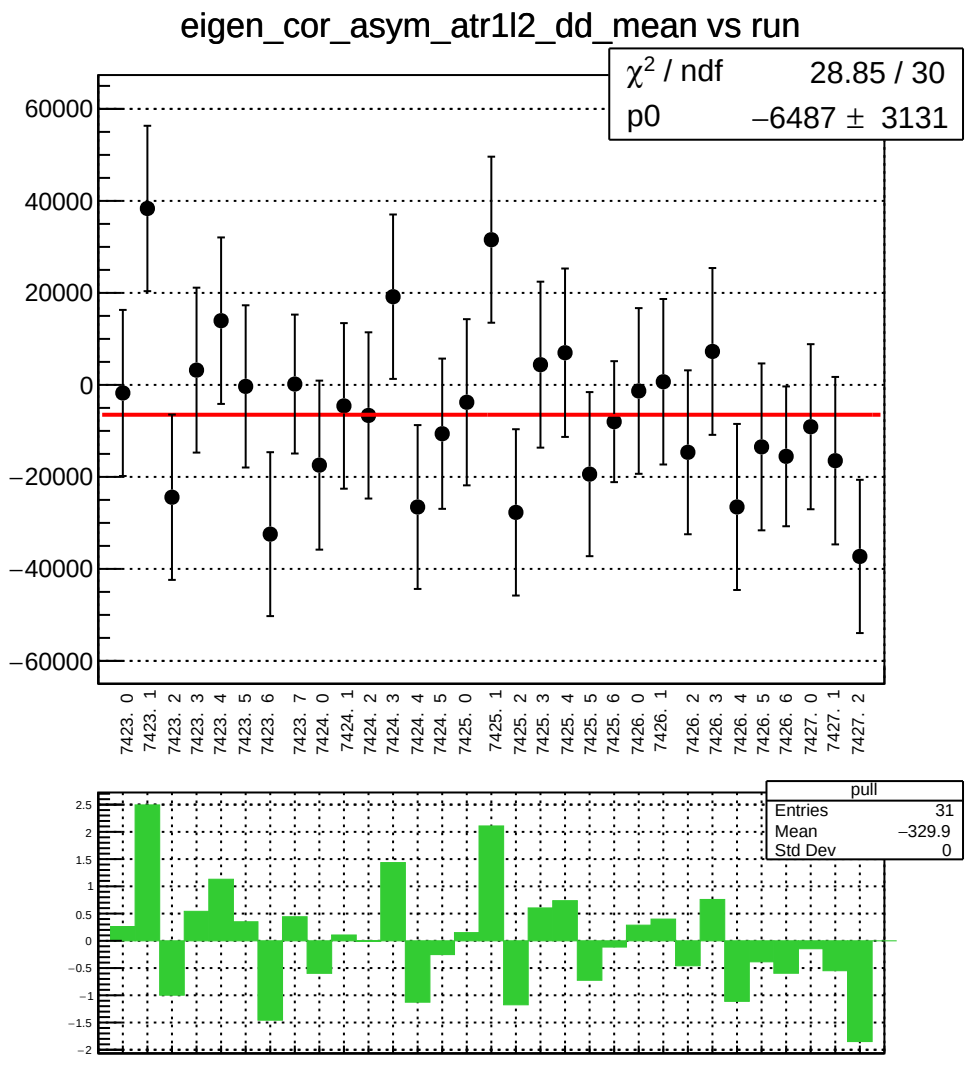

pull1D
Entries 31
Mean 0.008452
Std Dev 0.9647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

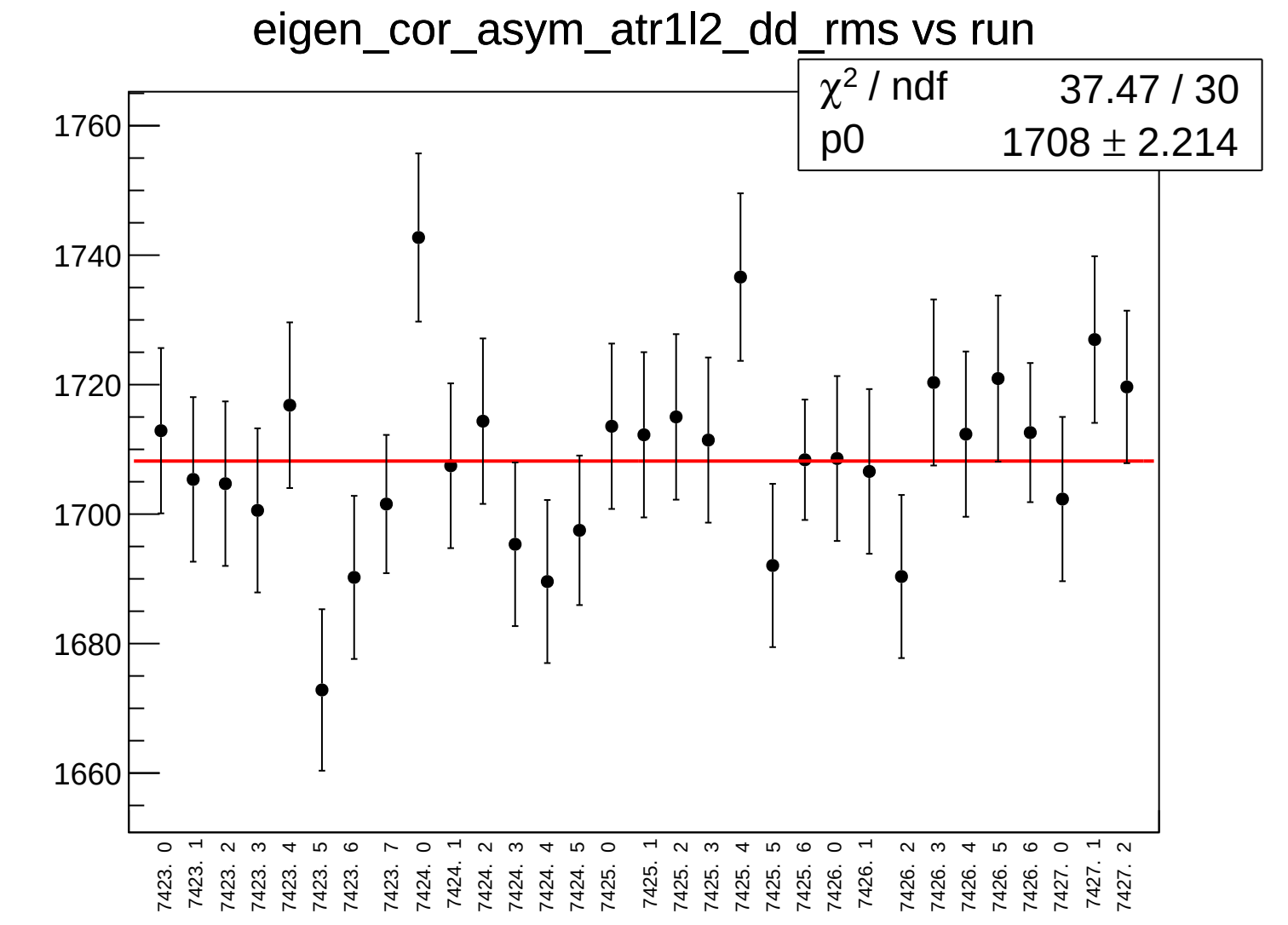

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 37.47 / 30
p0 1708 ± 2.214
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

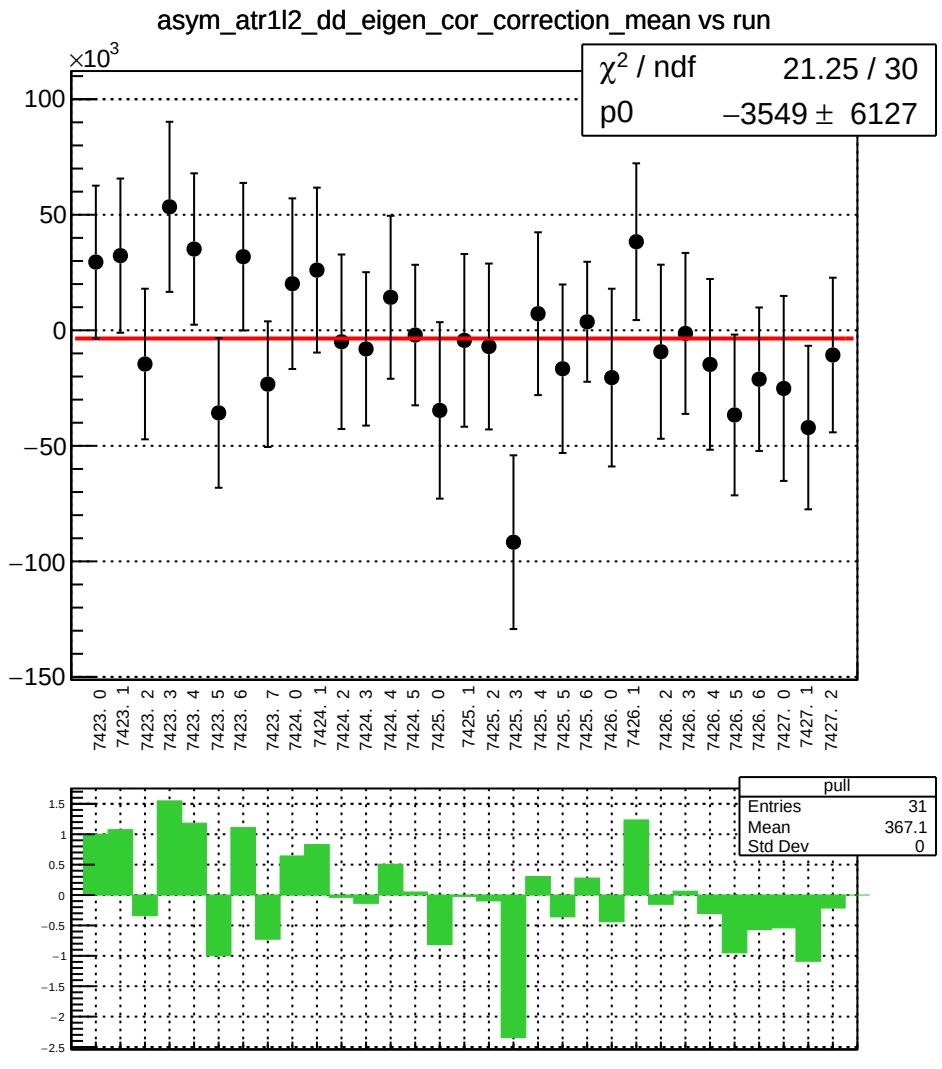

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 21.25 / 30
p0 −3549 ± 6127
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 367.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

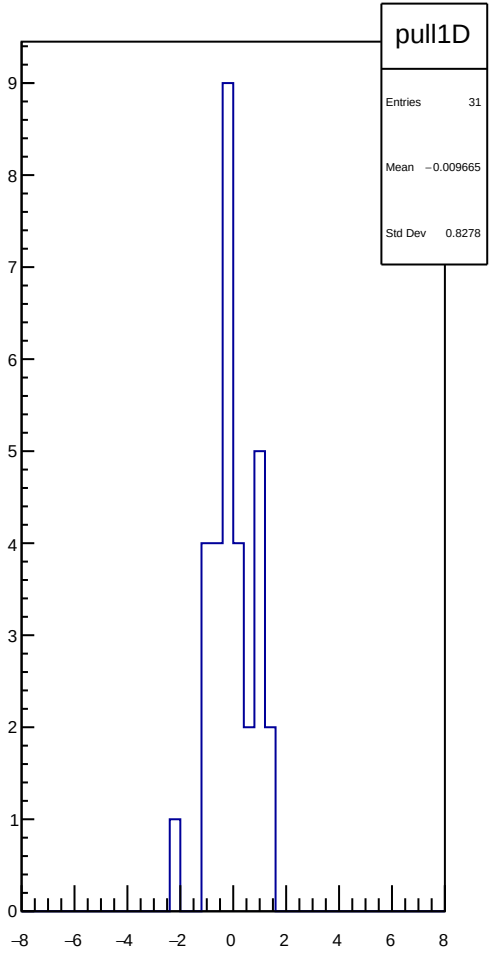

pull1D
Entries 31
Mean −0.009665
Std Dev 0.8278
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

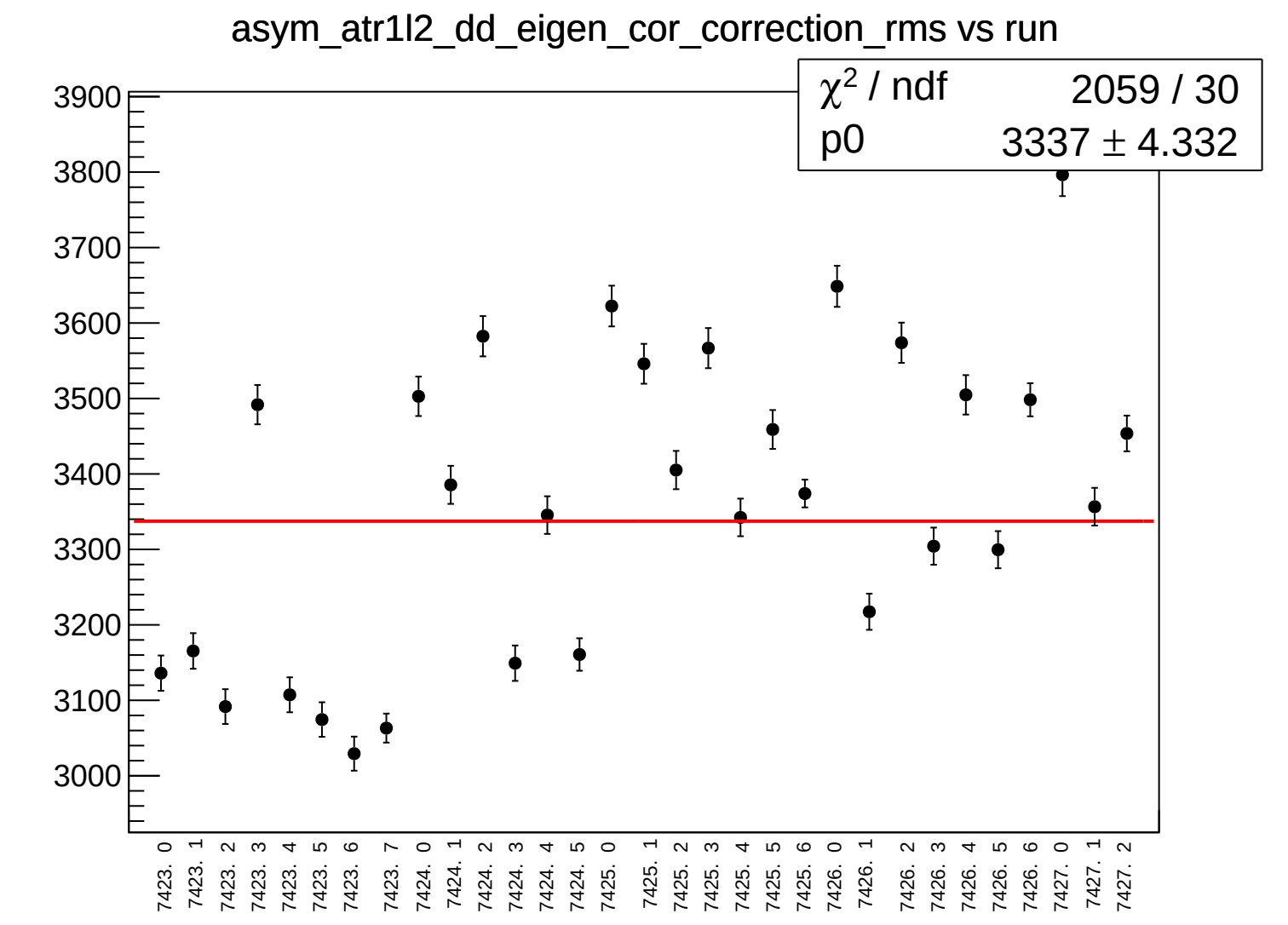

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2059 / 30
p0 3337 ± 4.332
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

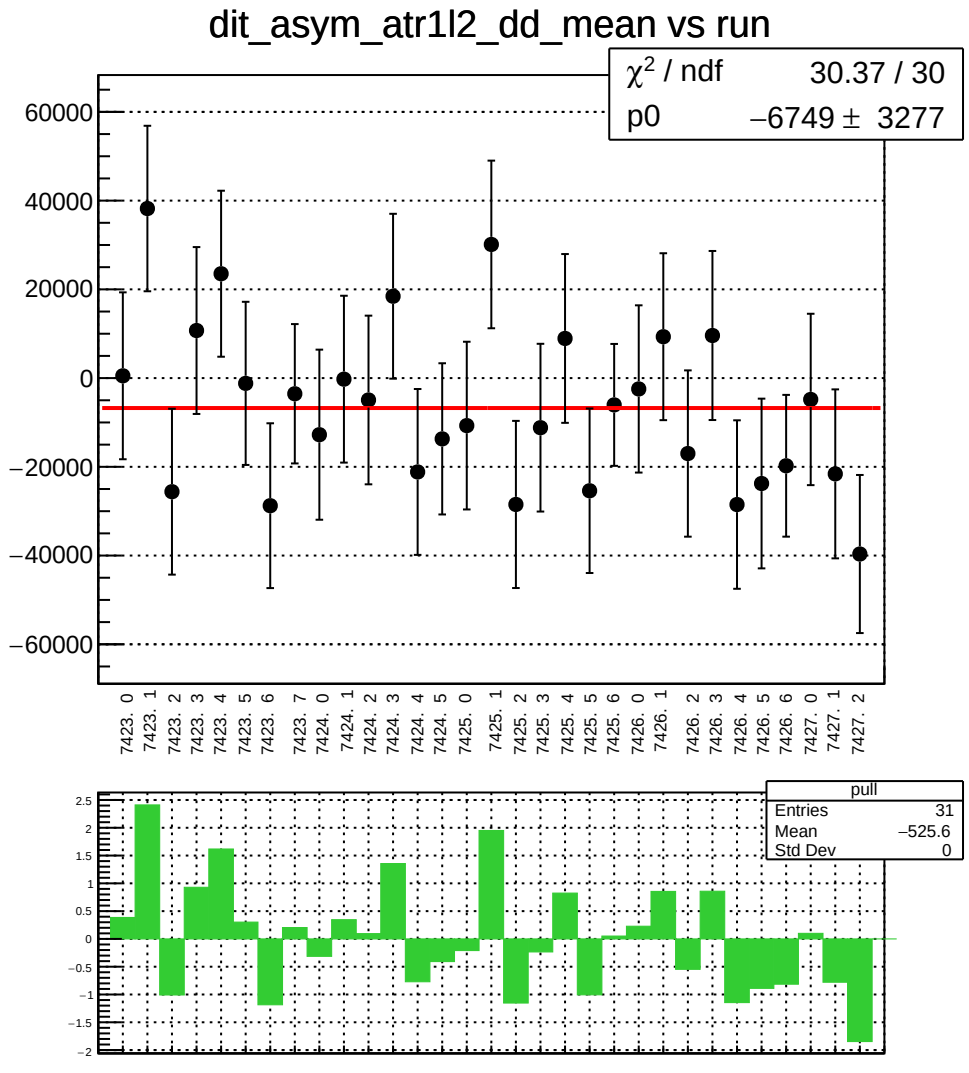

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 28.85 / 30
p0 −6487 ± 3131
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −329.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.008452
Std Dev 0.9647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

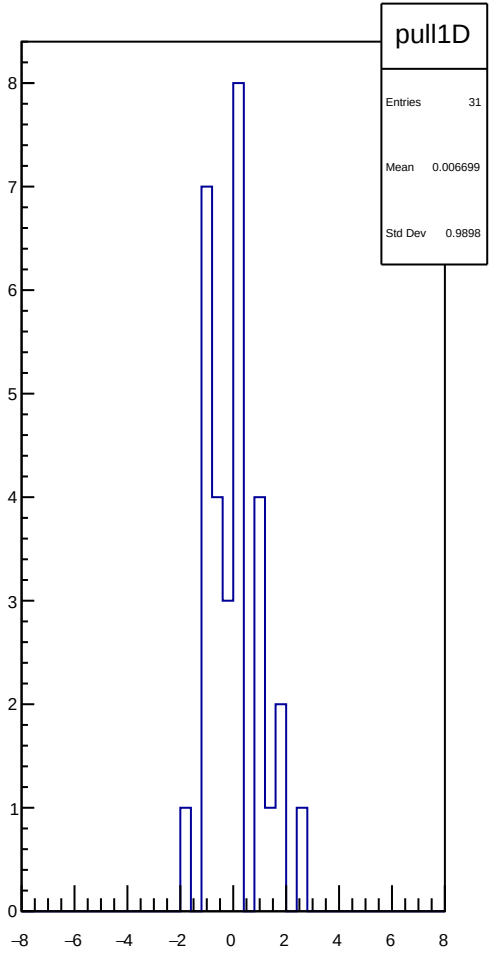

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 37.47 / 30
p0 1708 ± 2.214
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

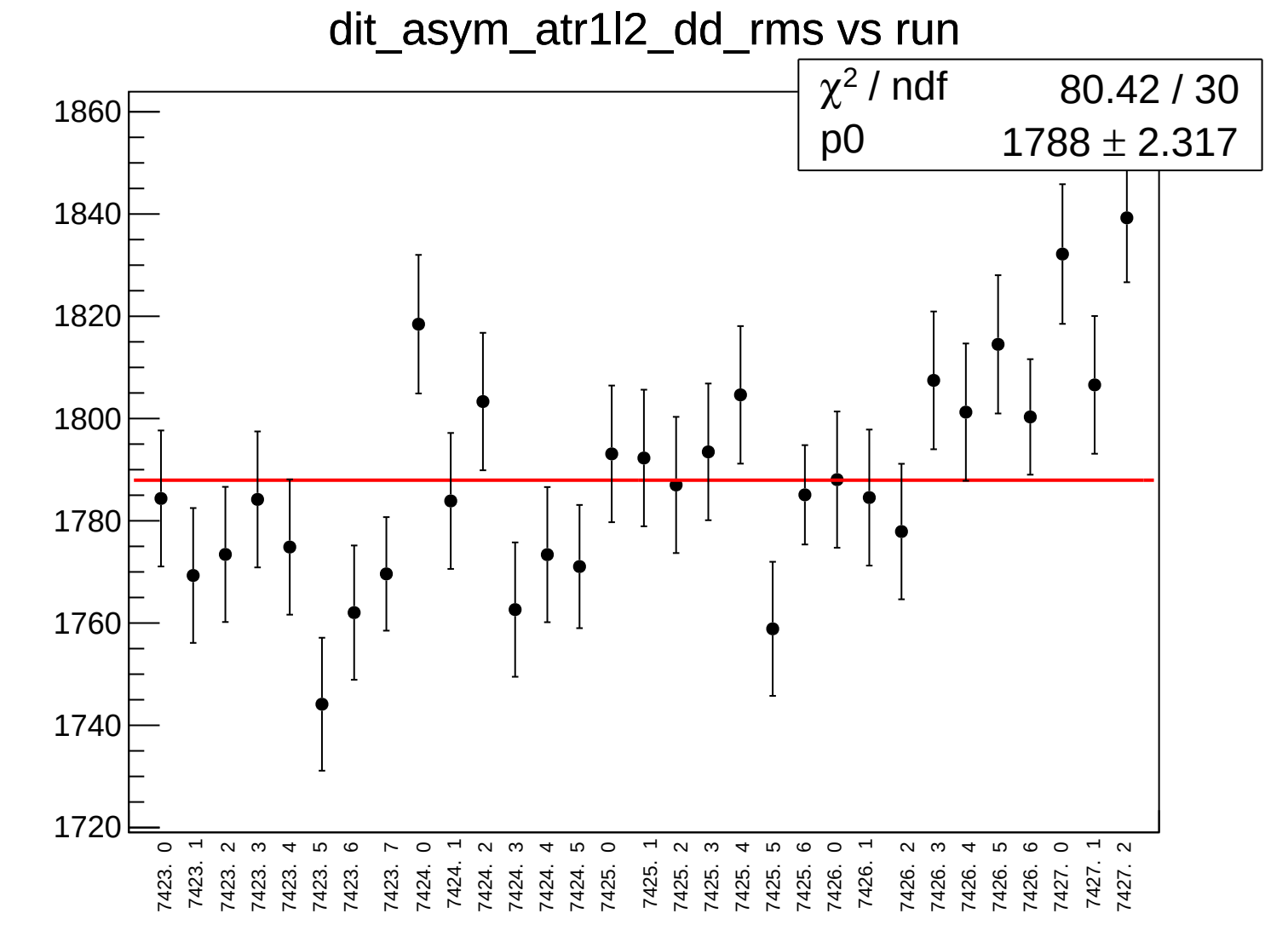

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.25 / 30
p0 −3549 ± 6127
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 367.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

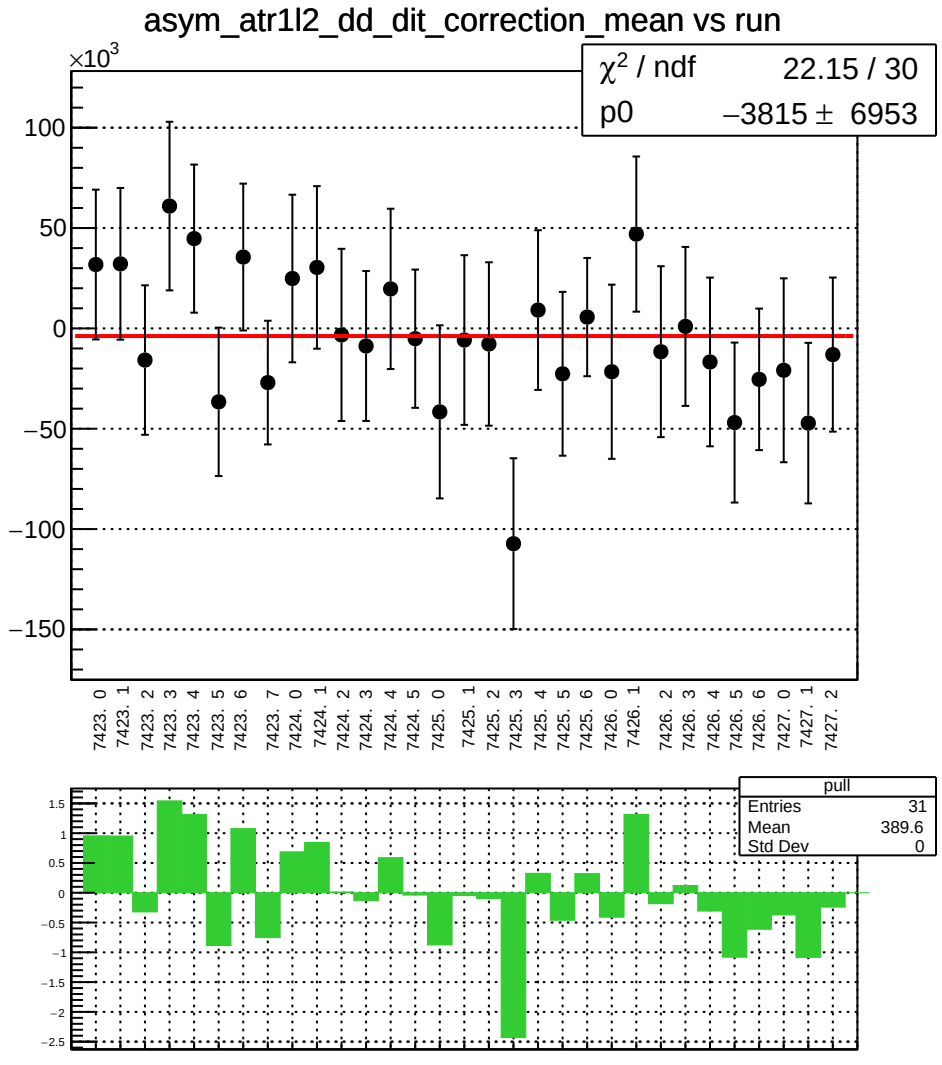

pull1D
Entries 31
Mean −0.009665
Std Dev 0.8278
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

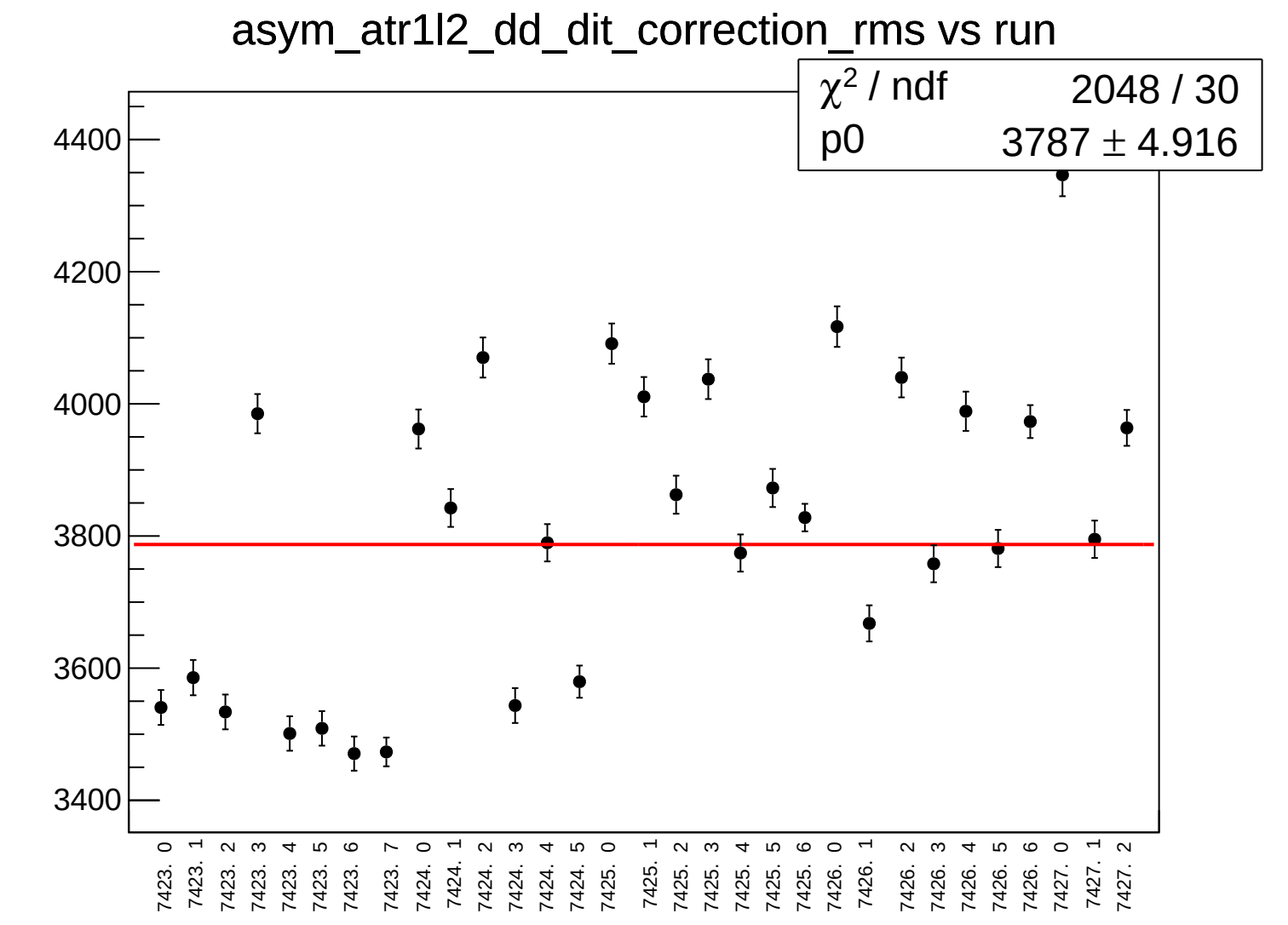

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2059 / 30
p0 3337 ± 4.332
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


dit_asym_atr1l2_dd_mean vs run
χ² / ndf 30.37 / 30
p0 −6749 ± 3277
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −525.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean 0.006699
Std Dev 0.9898
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1l2_dd_rms vs run
χ² / ndf 80.42 / 30
p0 1788 ± 2.317
1860
1840
1820
1800
1780
1760
1740
1720
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 22.15 / 30
p0 −3815 ± 6953
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 389.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.009078
Std Dev 0.8453
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2048 / 30
p0 3787 ± 4.916
4400
4200
4000
3800
3600
3400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
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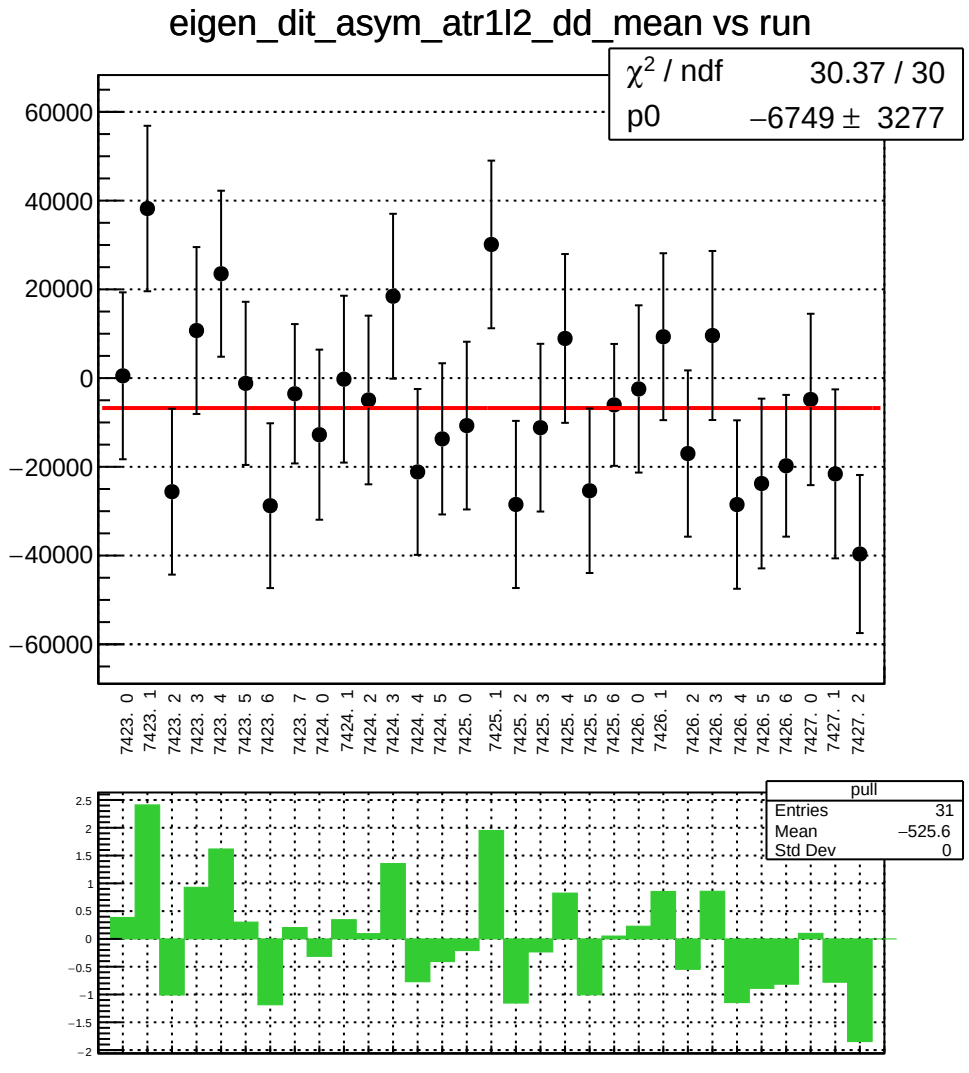
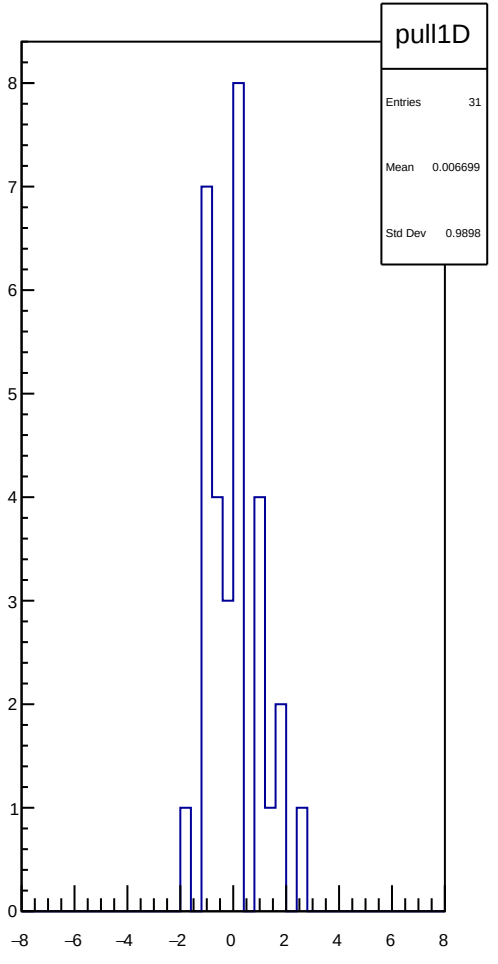
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2


eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 30.37 / 30
p0 −6749 ± 3277
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −525.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean 0.006699
Std Dev 0.9898
8
7
6
5
4
3
2
1
0
−8
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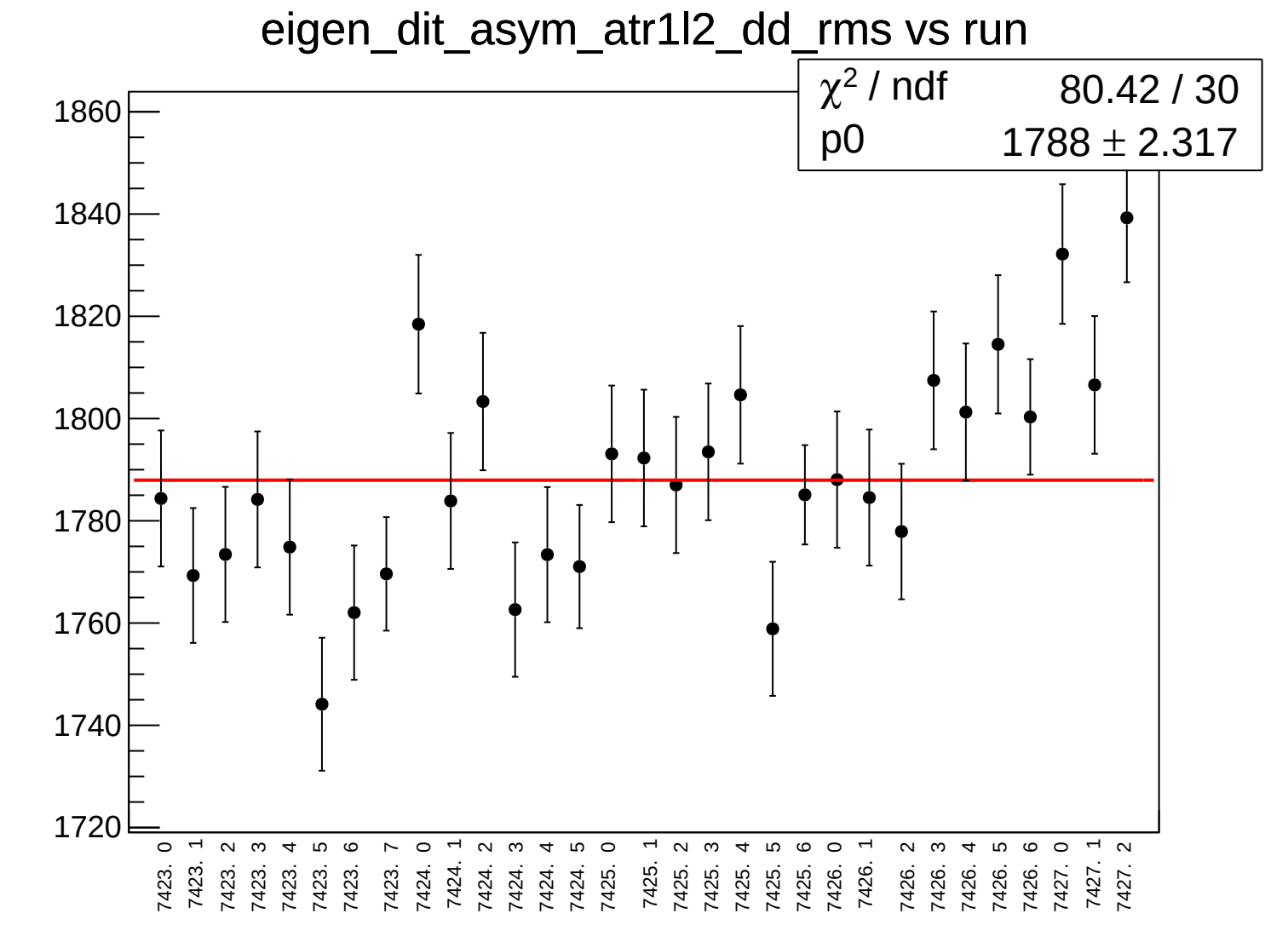
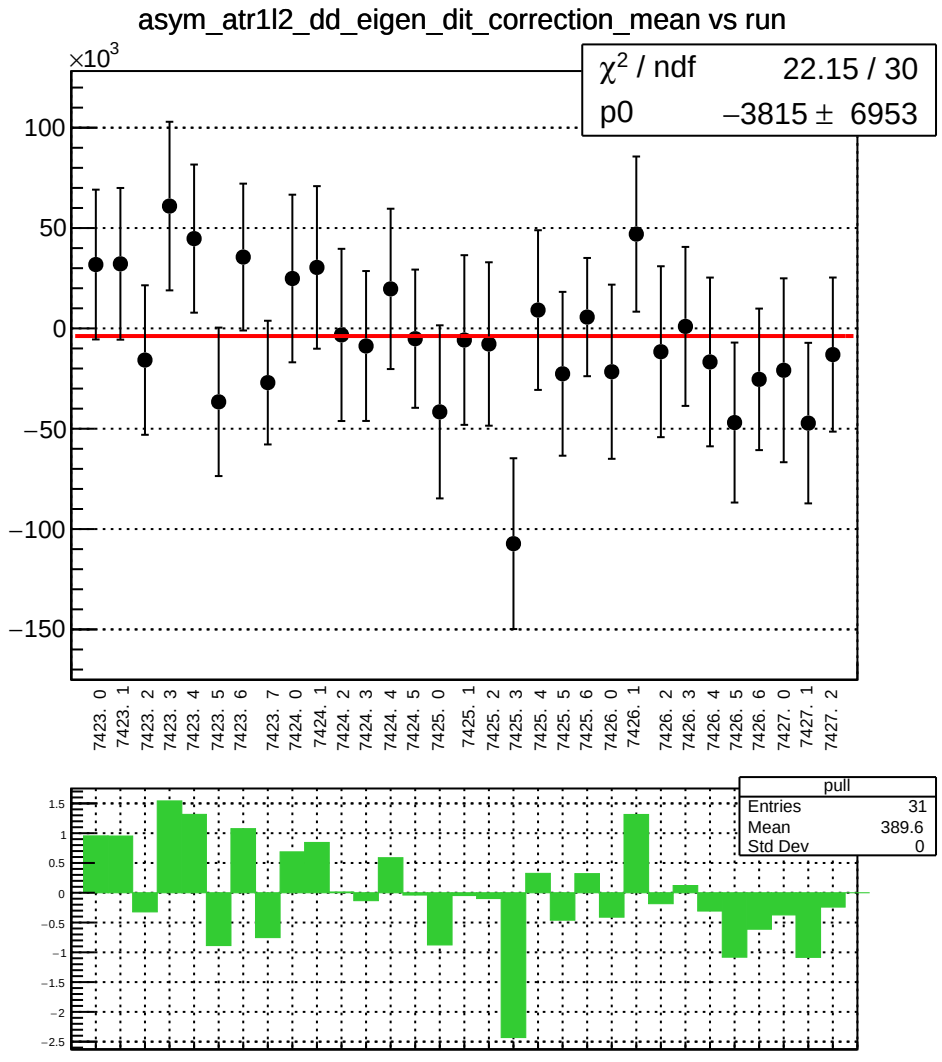
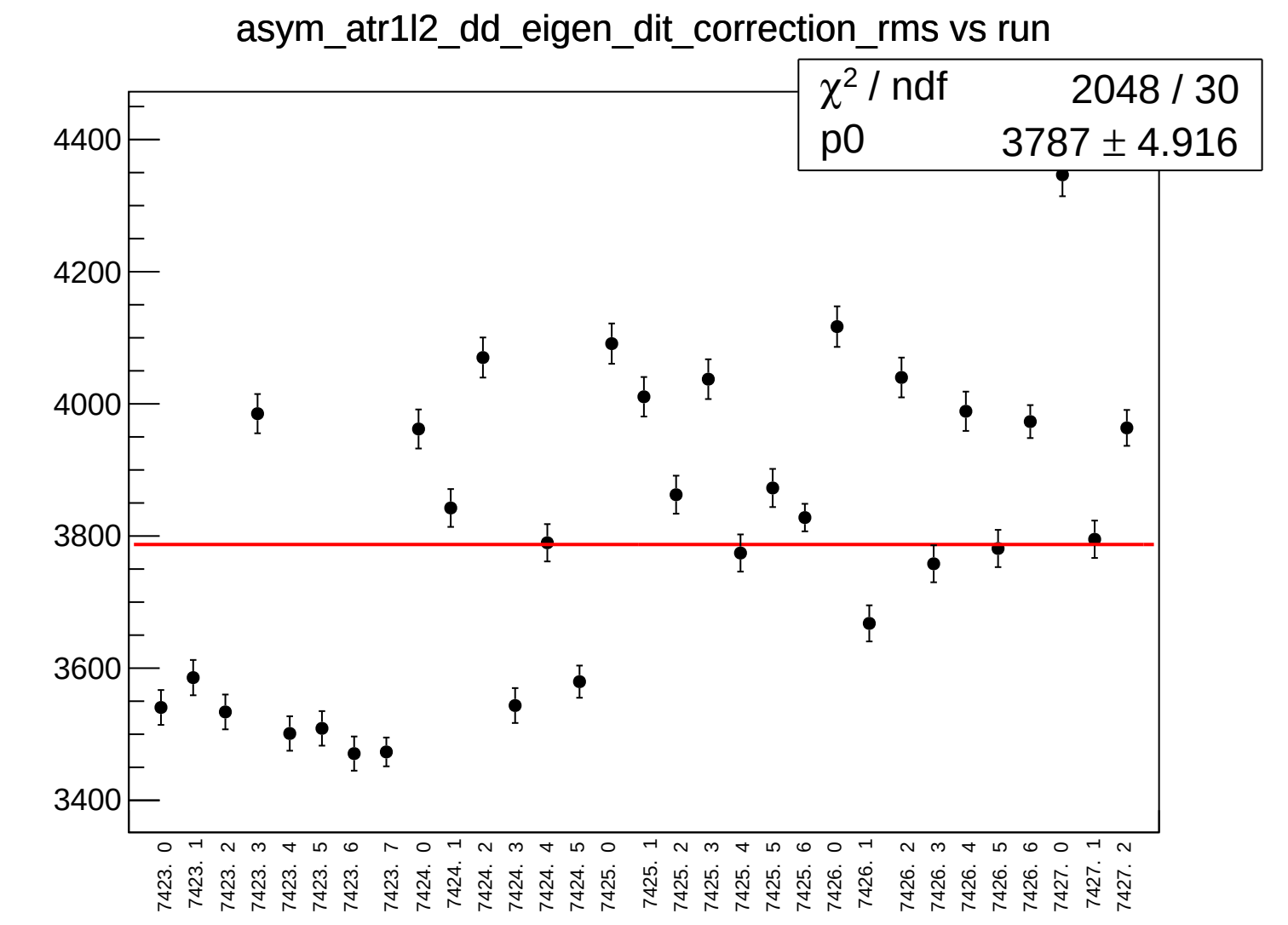
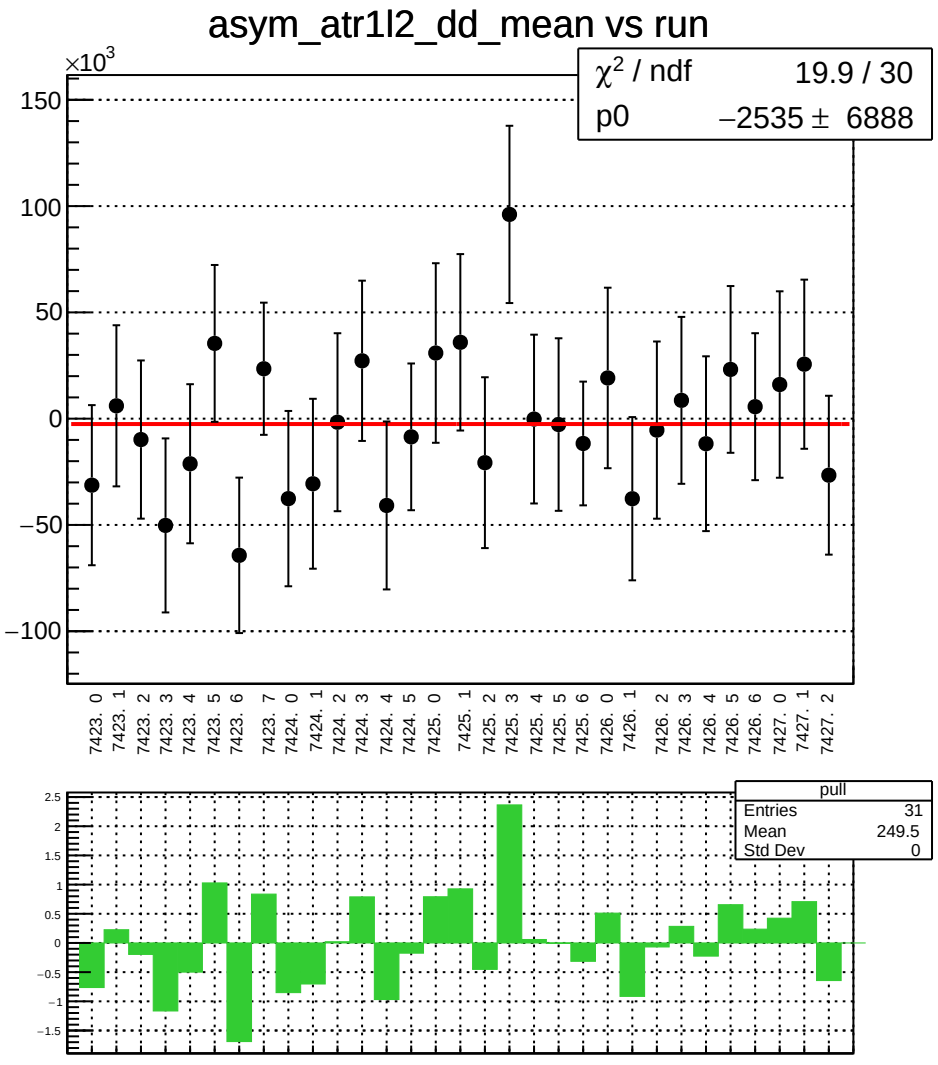
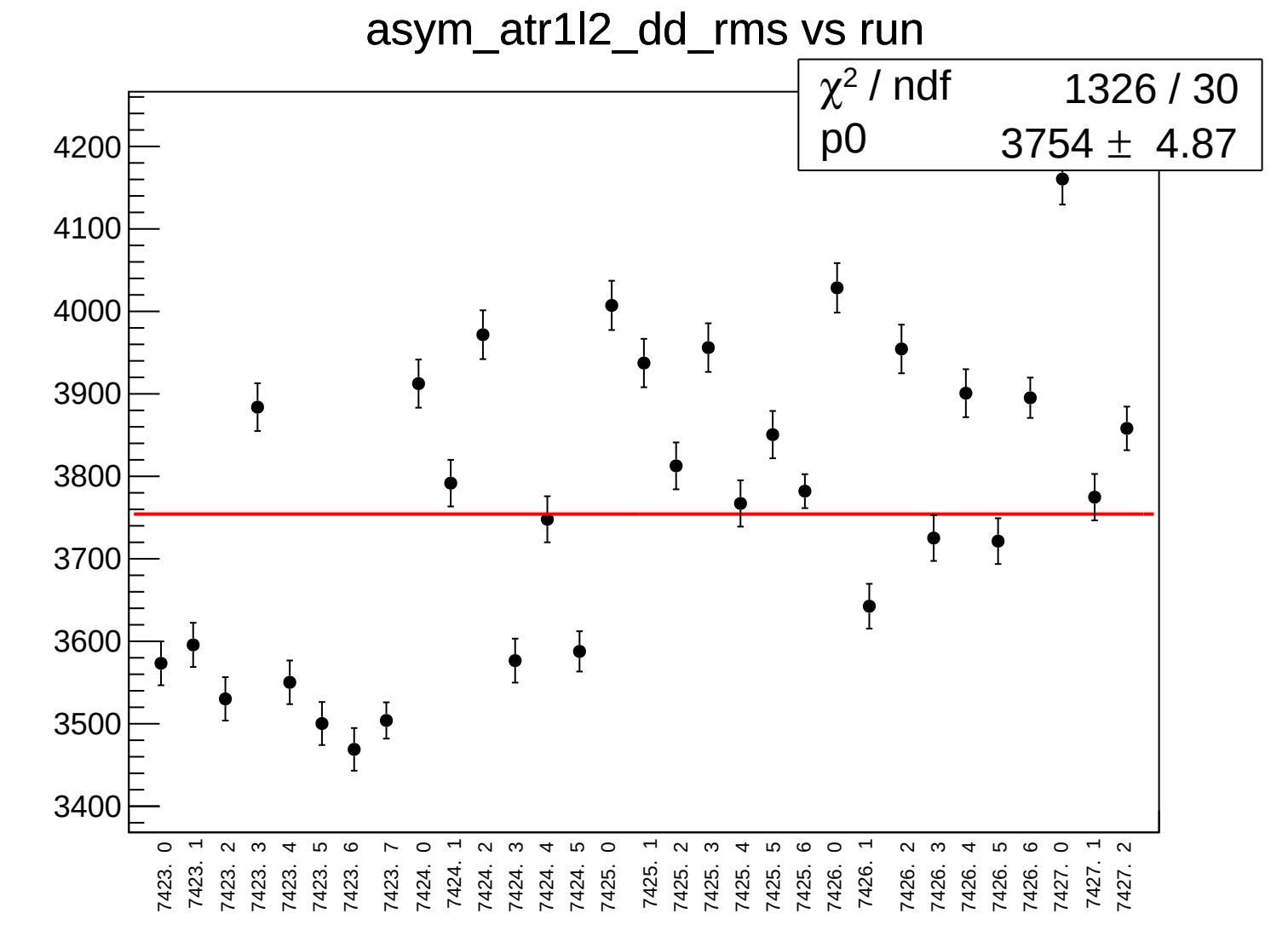
−4
−2
0
2
4
6
8

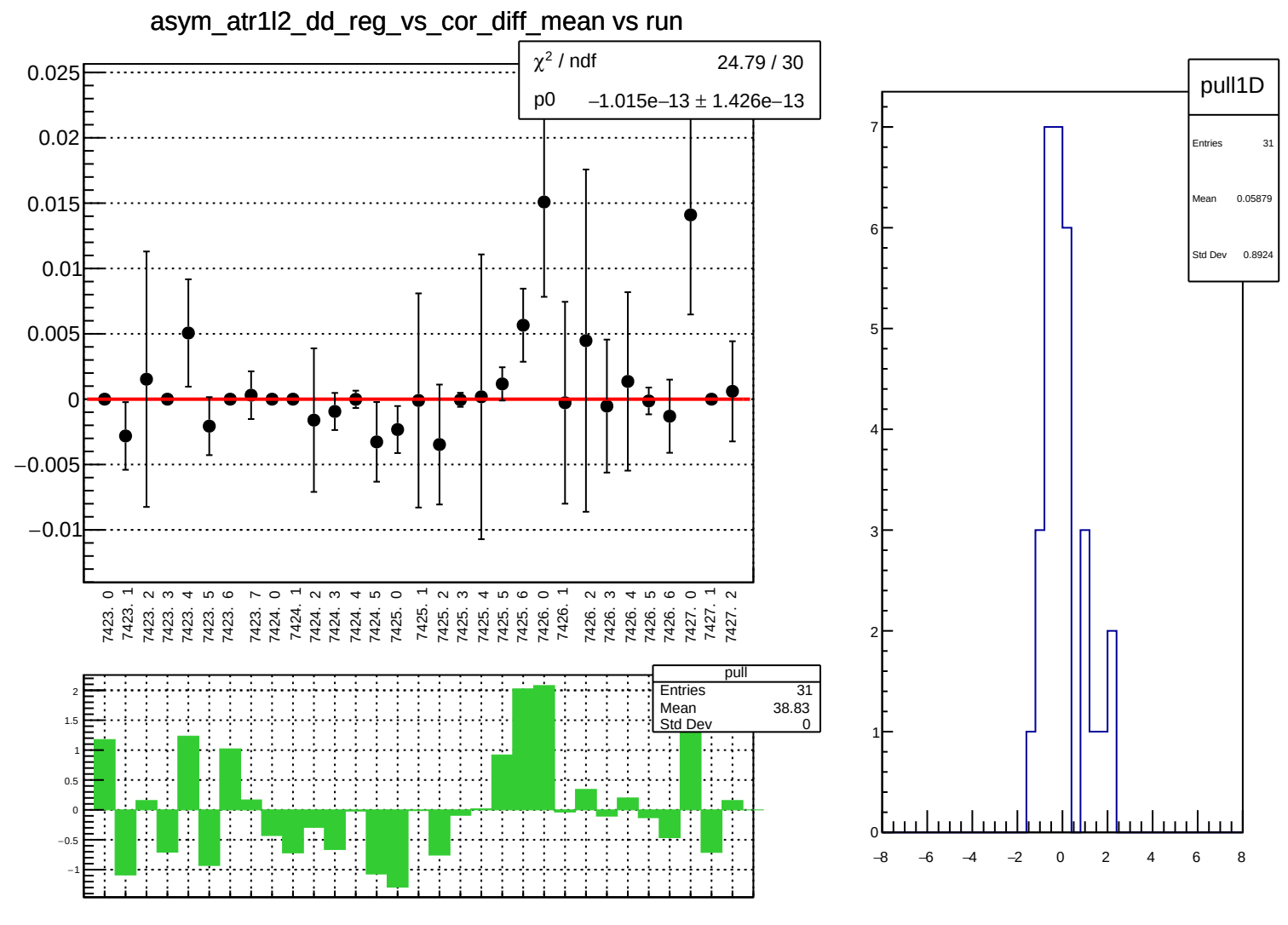

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 80.42 / 30
p0 1788 ± 2.317
1860
1840
1820
1800
1780
1760
1740
1720
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

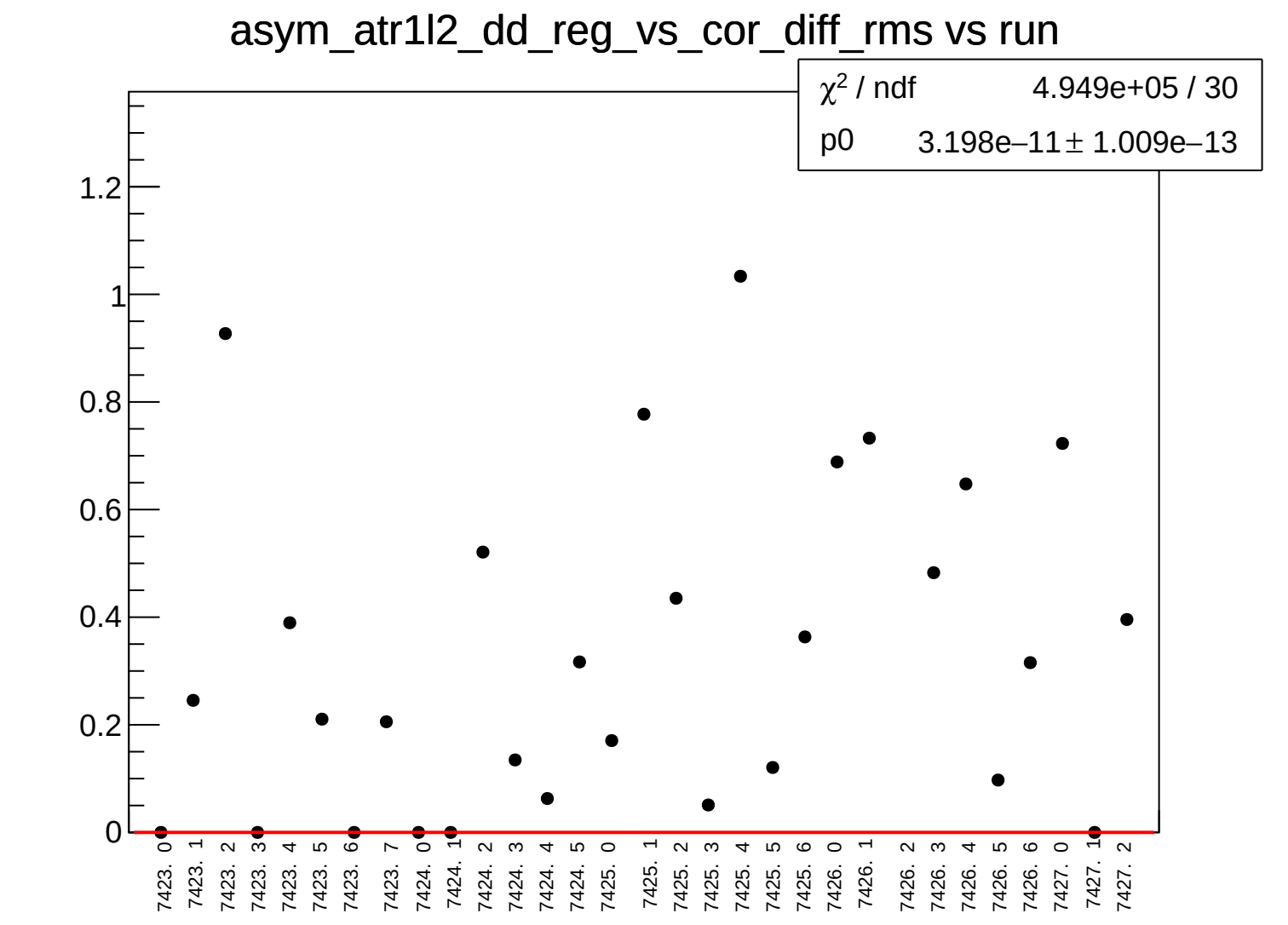

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.15 / 30
p0 −3815 ± 6953
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 389.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.009077
Std Dev 0.8453
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

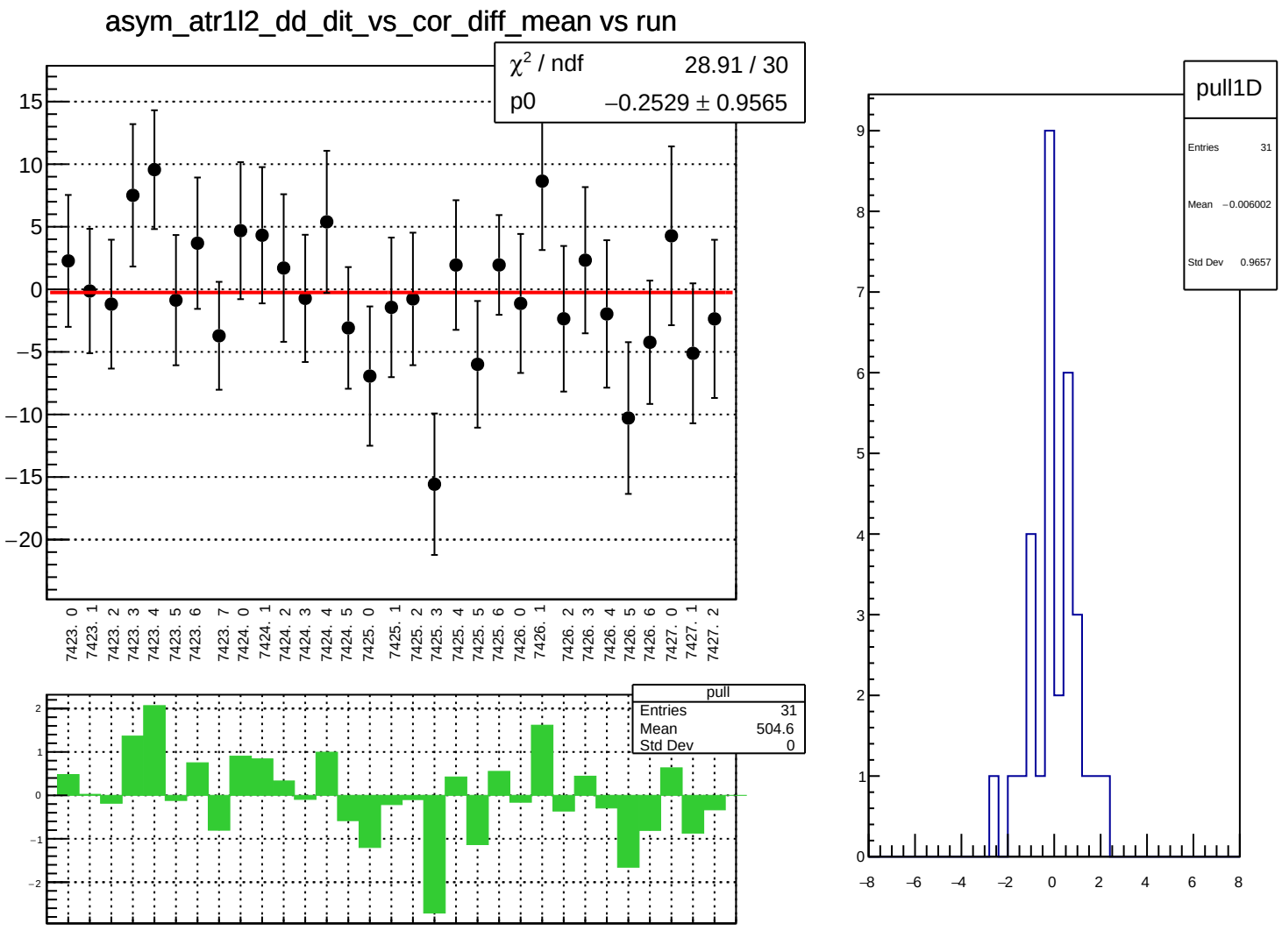

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2048 / 30
p0 3787 ± 4.916
4400
4200
4000
3800
3600
3400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

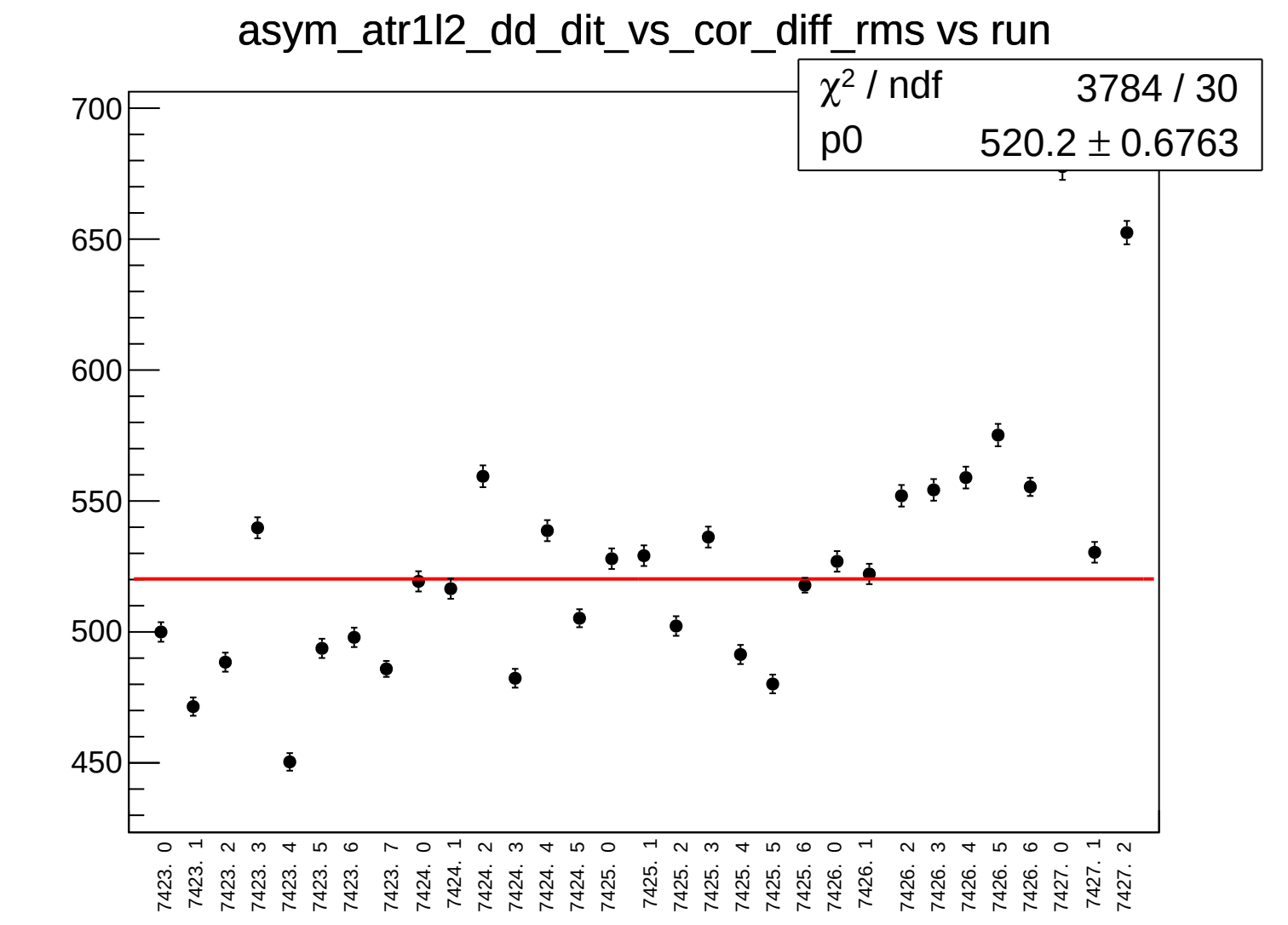

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 19.9 / 30
p0 −2535 ± 6888
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 249.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.007306
Std Dev 0.8012
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

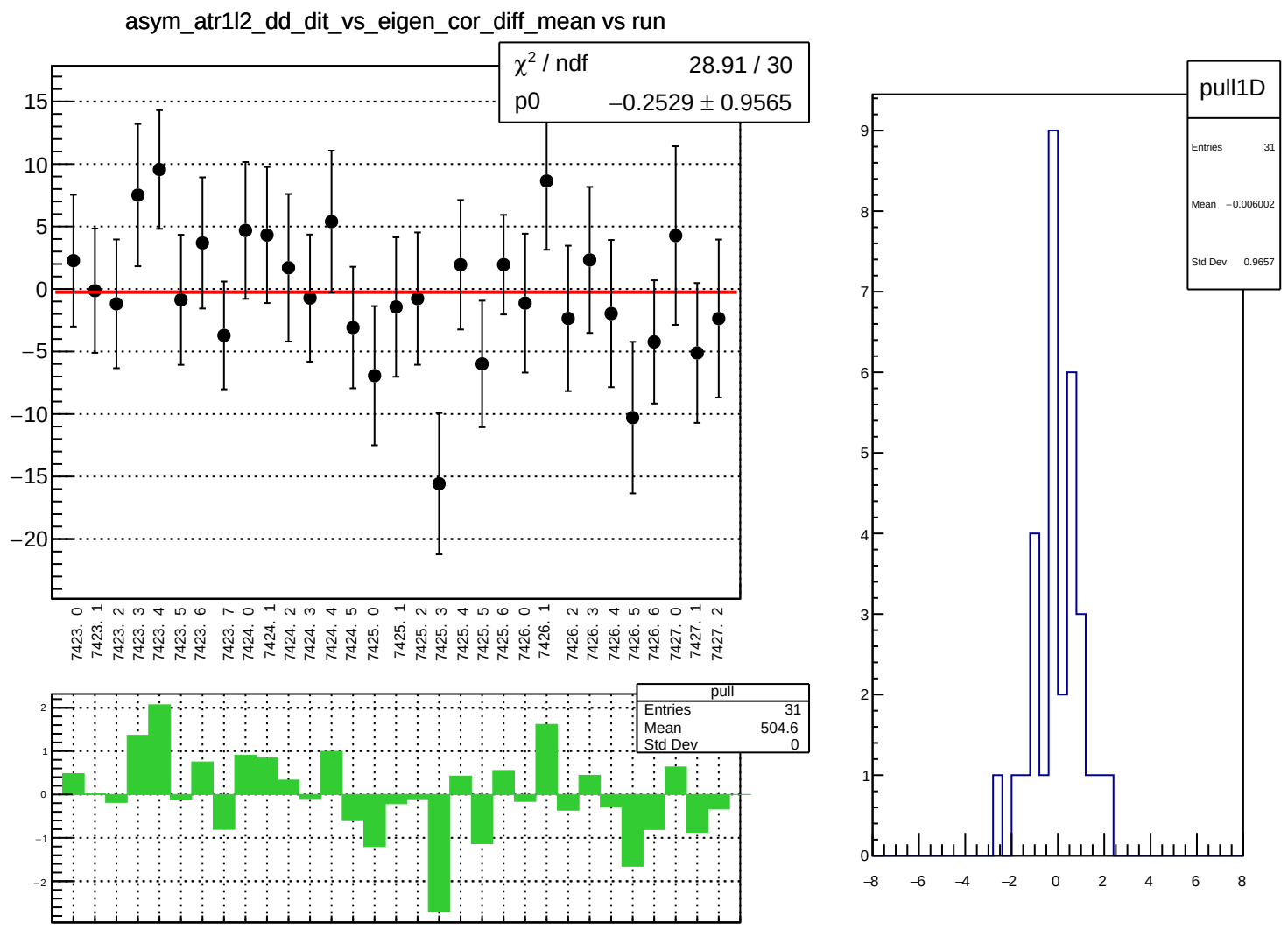

asym_atr1l2_dd_rms vs run
χ² / ndf 1326 / 30
p0 3754 ± 4.87
4200
4100
4000
3900
3800
3700
3600
3500
3400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

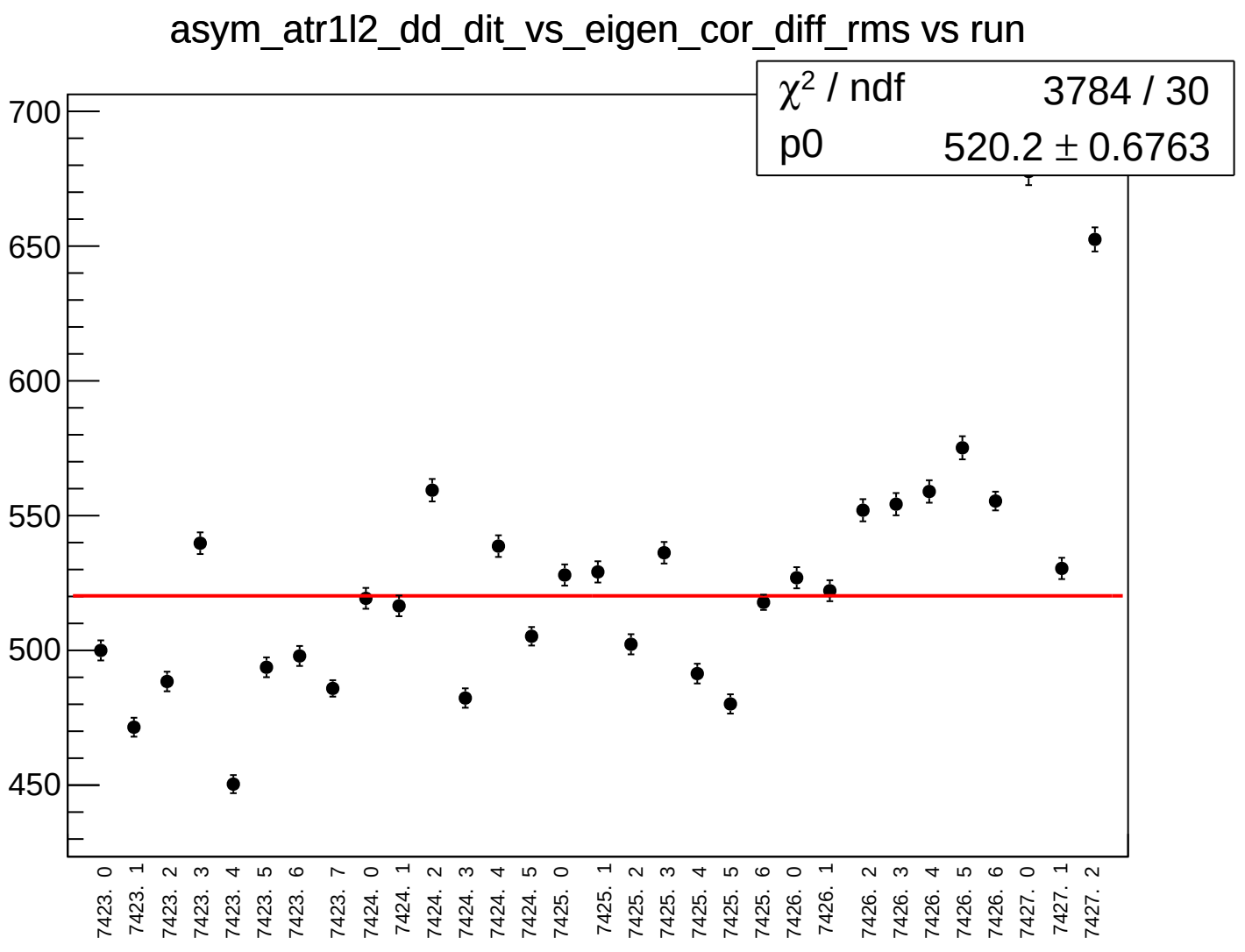

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.79 / 30
p0 −1.015e−13 ± 1.426e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 38.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.05879
Std Dev 0.8924
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

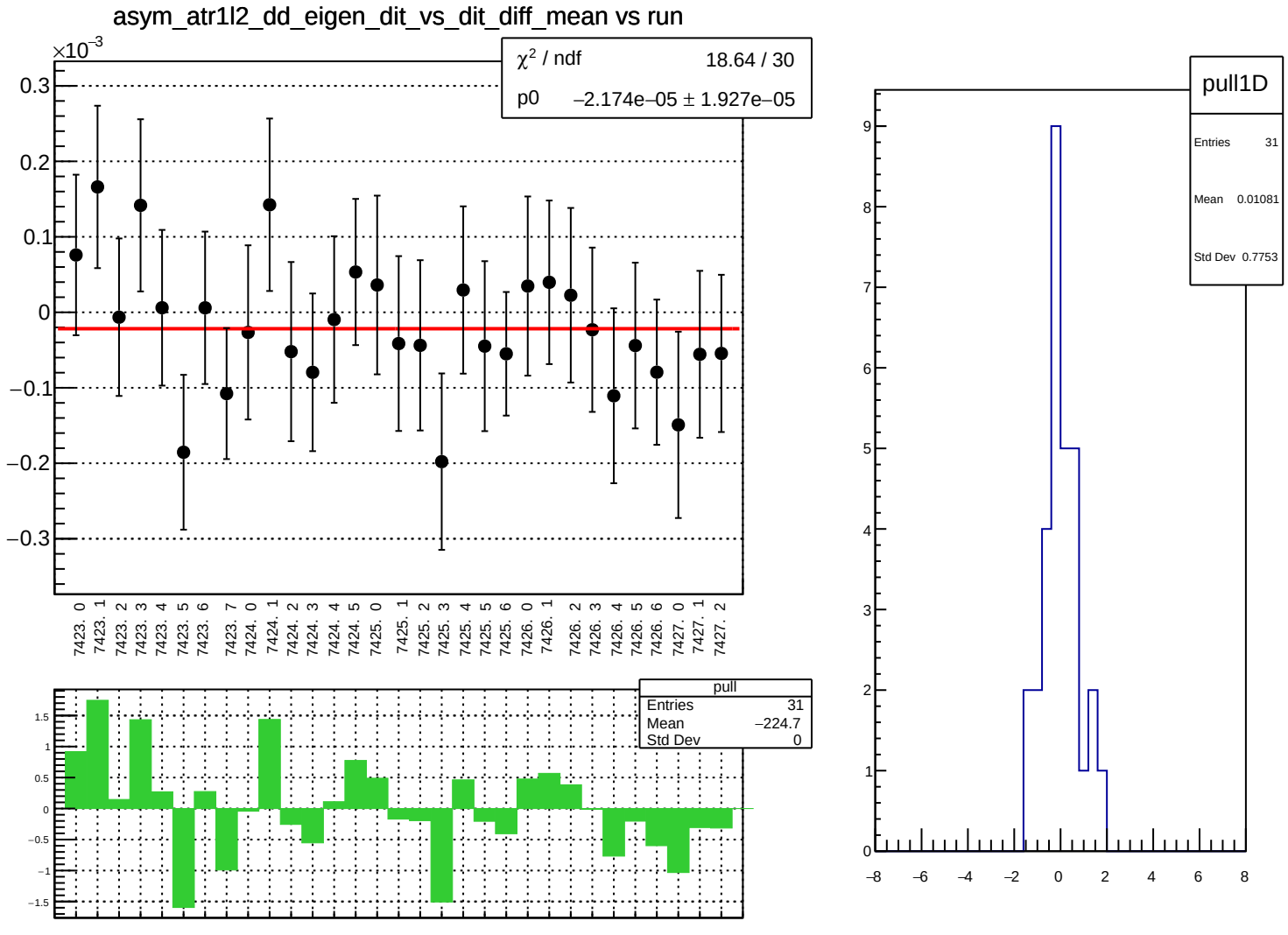

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.949e+05 / 30
p0 3.198e−11 ± 1.009e−13
1.2
1
0.8
0.6
0.4
0.2
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

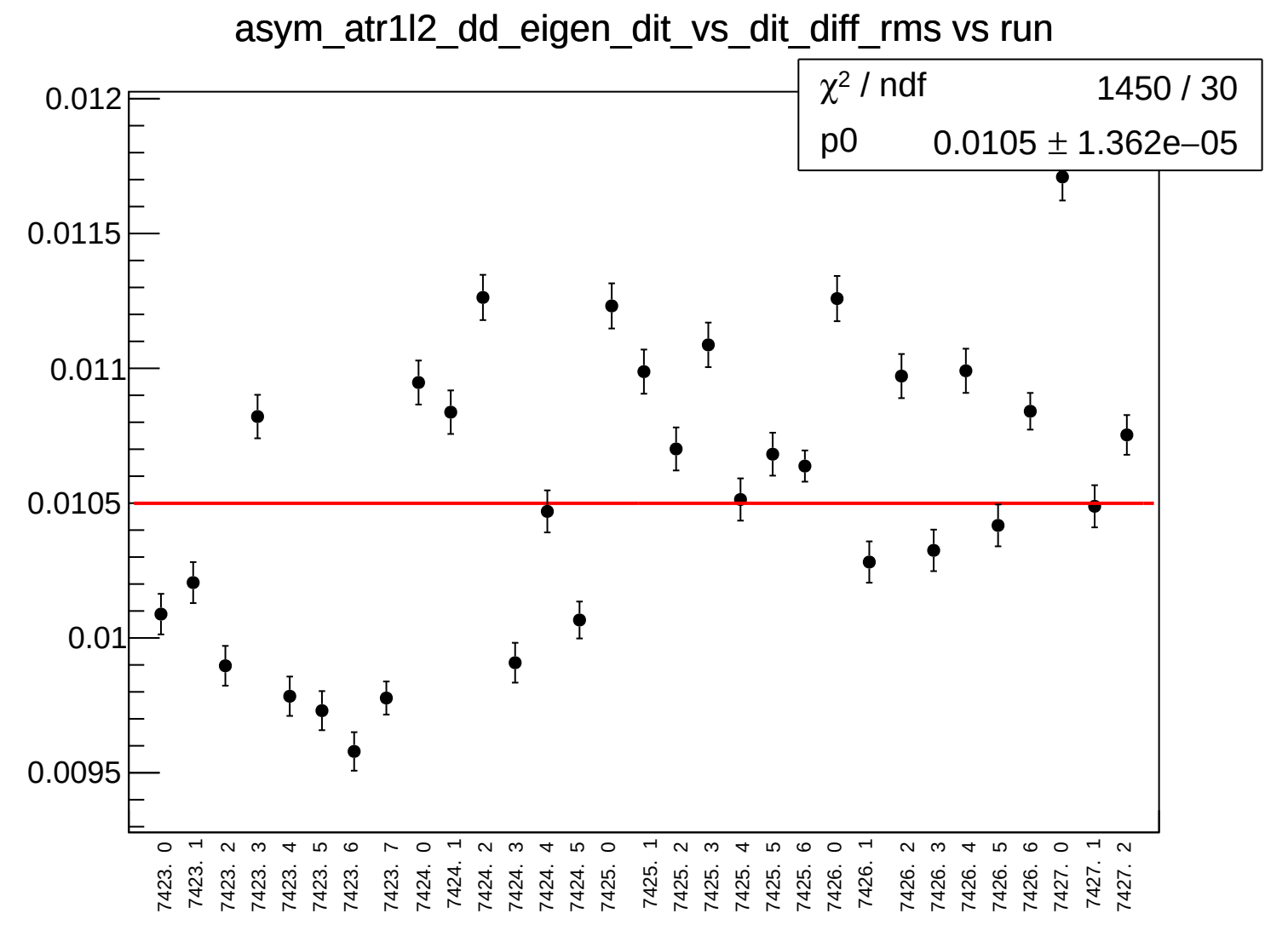

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 28.91 / 30
p0 −0.2529 ± 0.9565
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 504.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.006002
Std Dev 0.9657
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

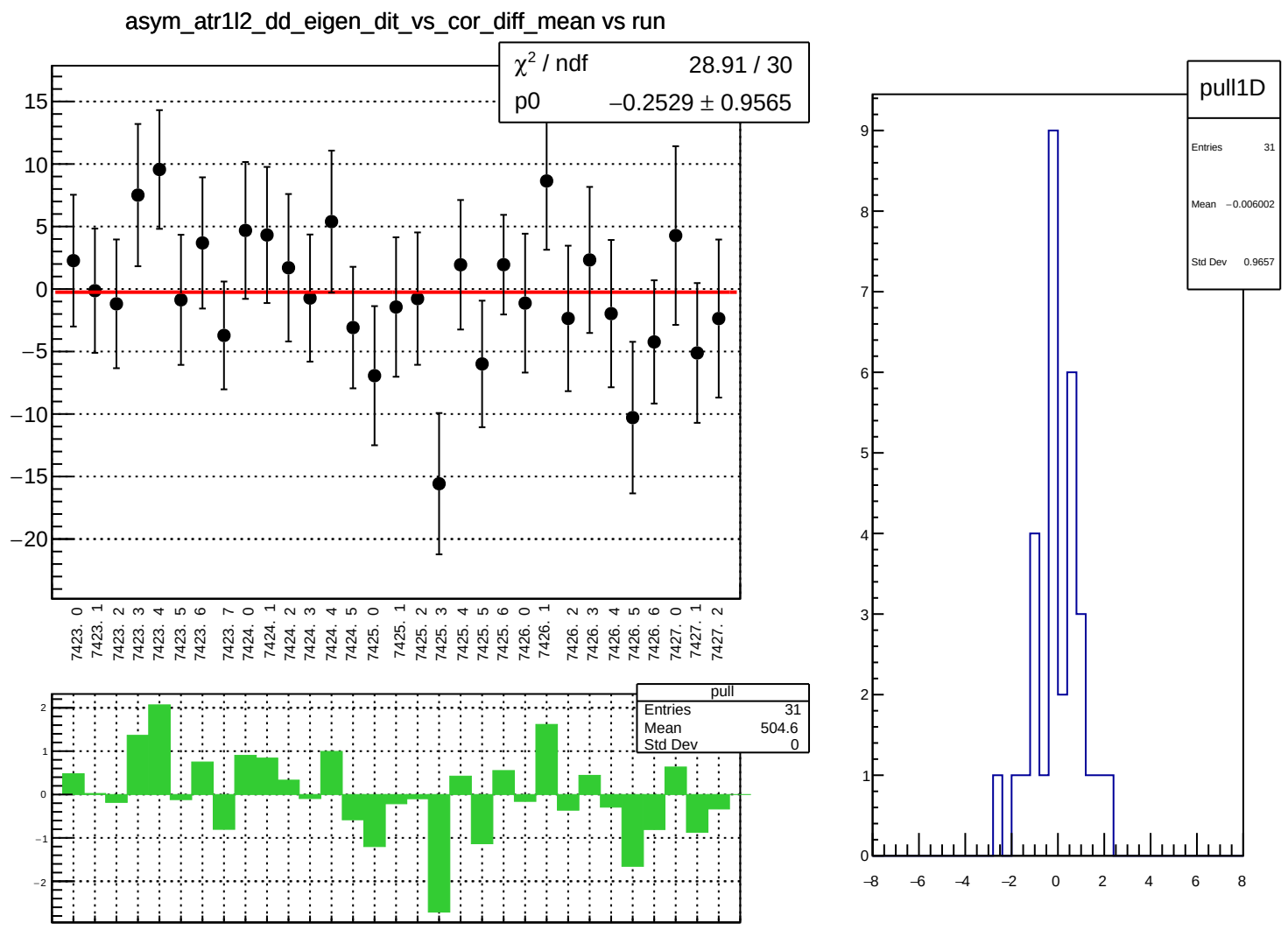

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3784 / 30
p0 520.2 ± 0.6763
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

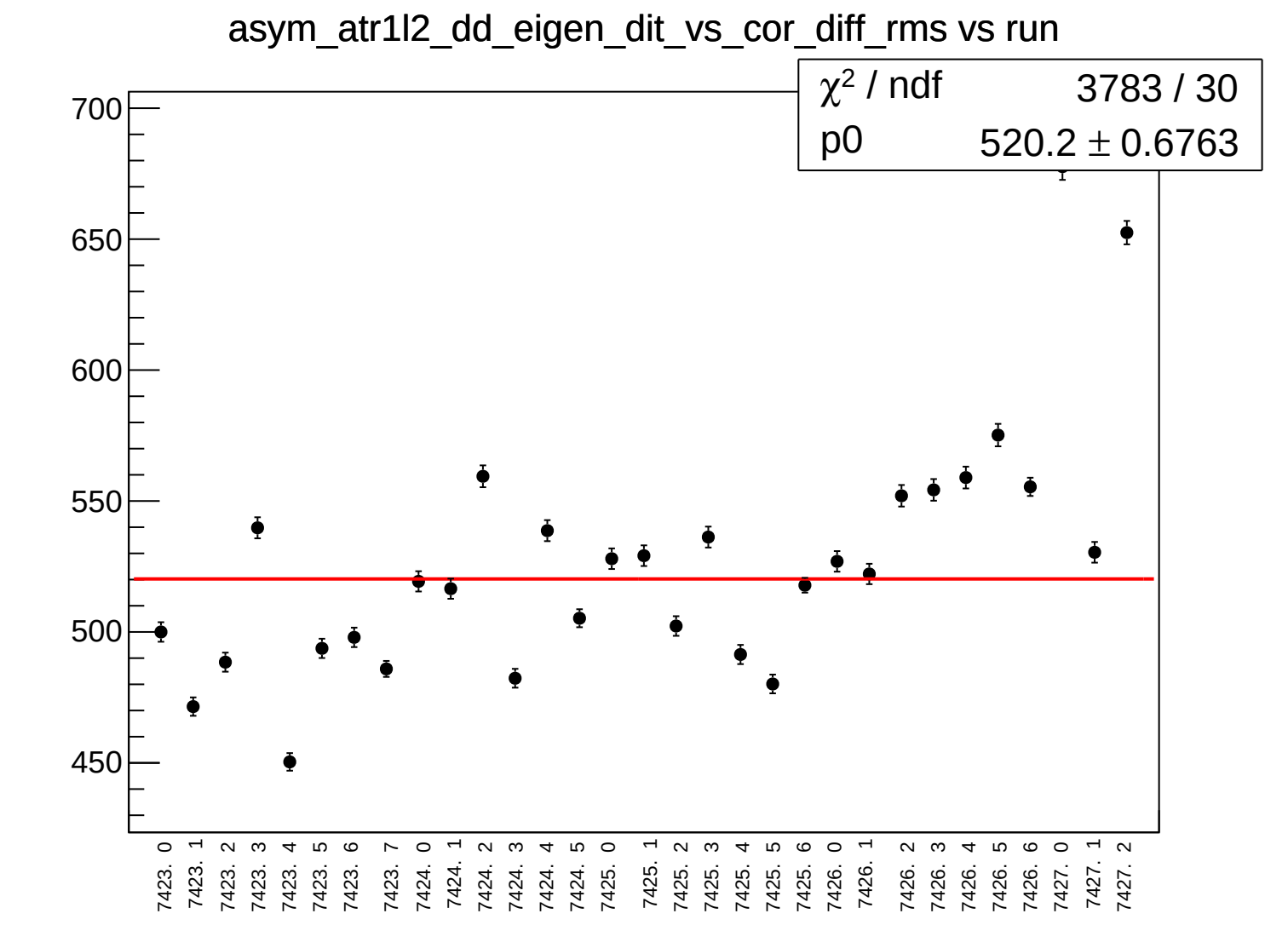

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.91 / 30
p0 −0.2529 ± 0.9565
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 504.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.006002
Std Dev 0.9657
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

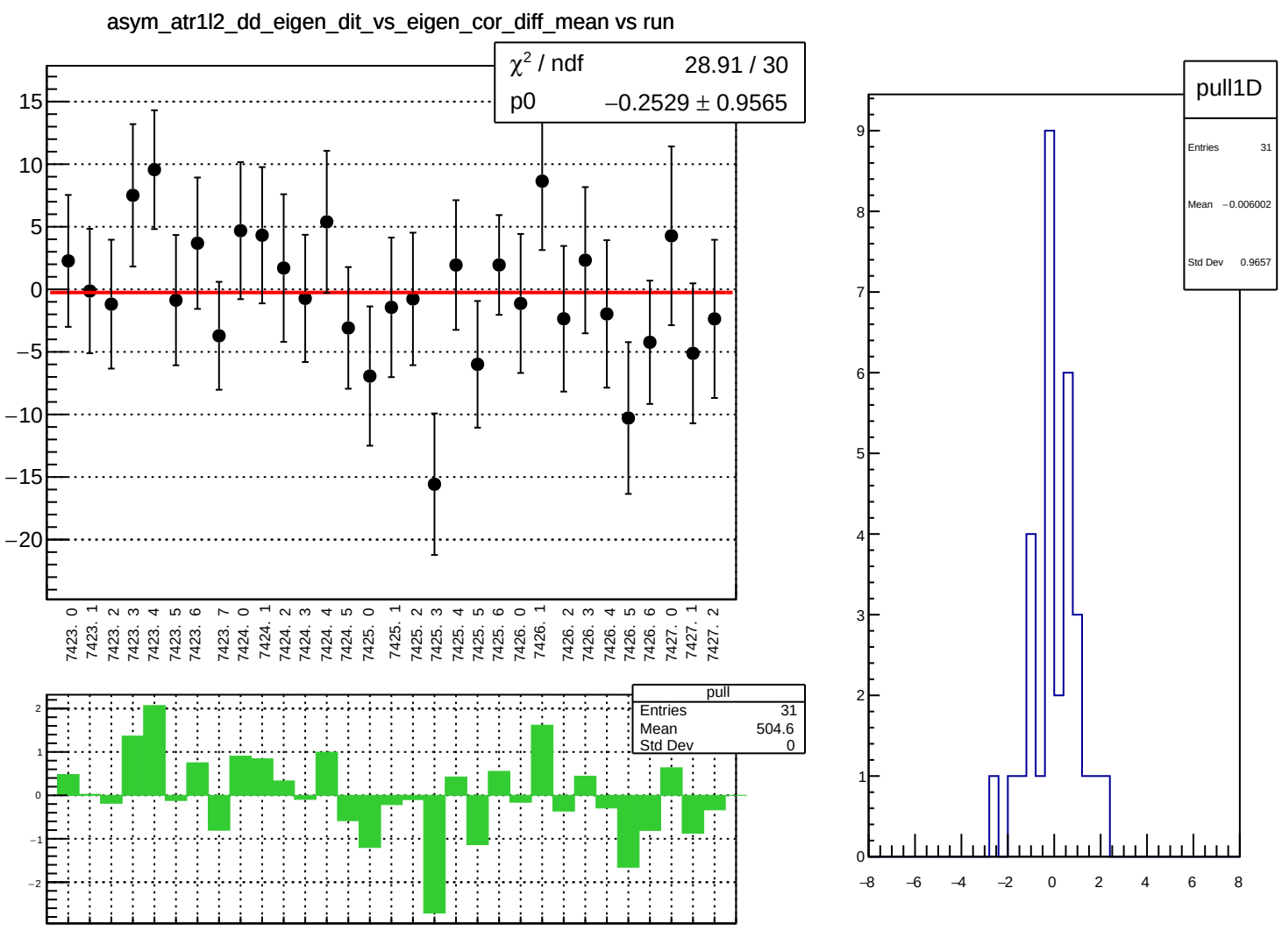

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3784 / 30
p0 520.2 ± 0.6763
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

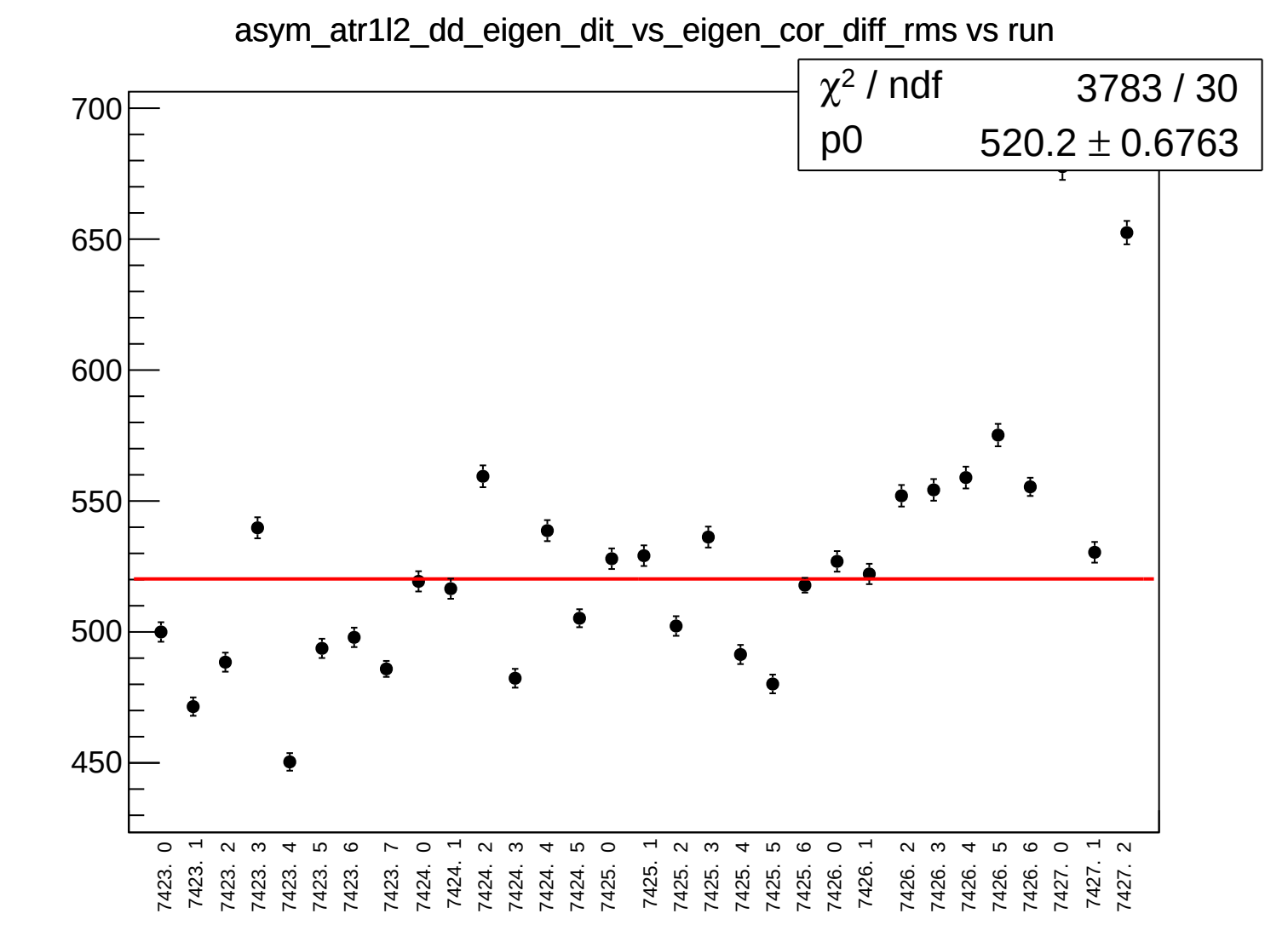

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.64 / 30
p0 −2.174e−05 ± 1.927e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −224.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01081
Std Dev 0.7753
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

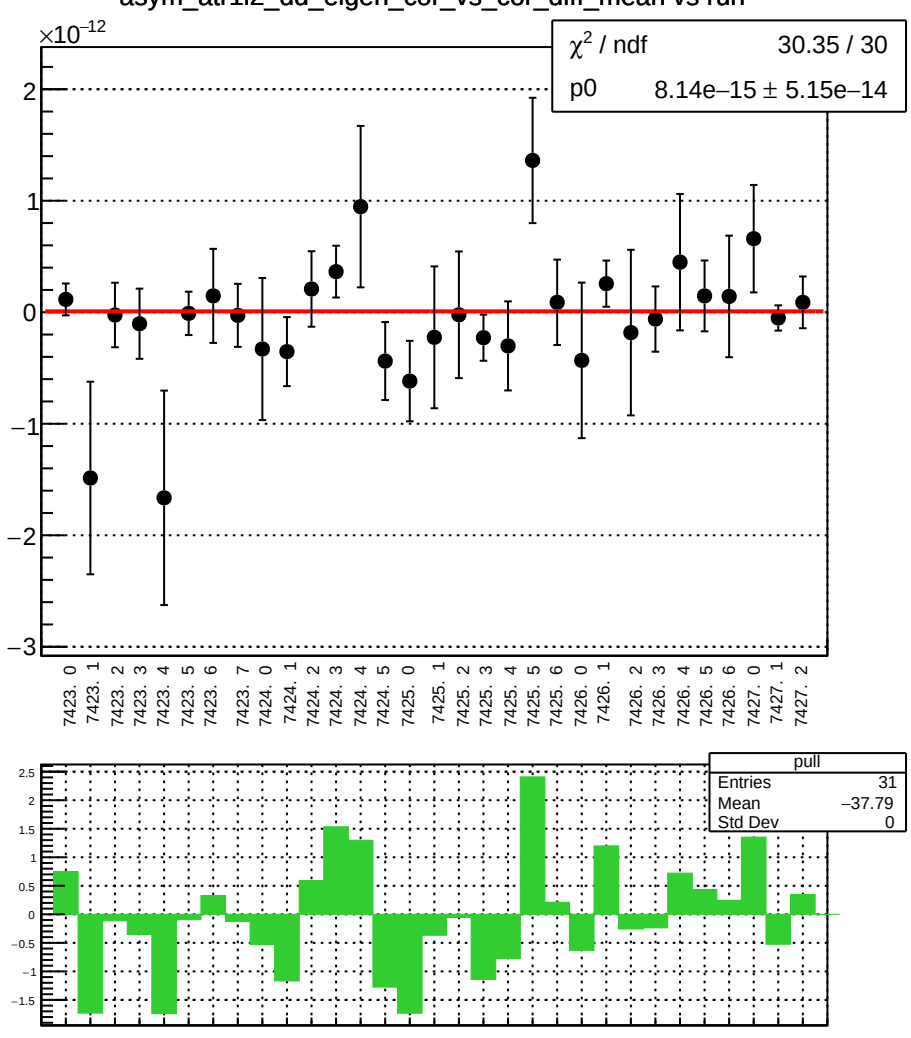

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1450 / 30
p0 0.0105 ± 1.362e−05
0.012
0.0115
0.011
0.0105
0.01
0.0095
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

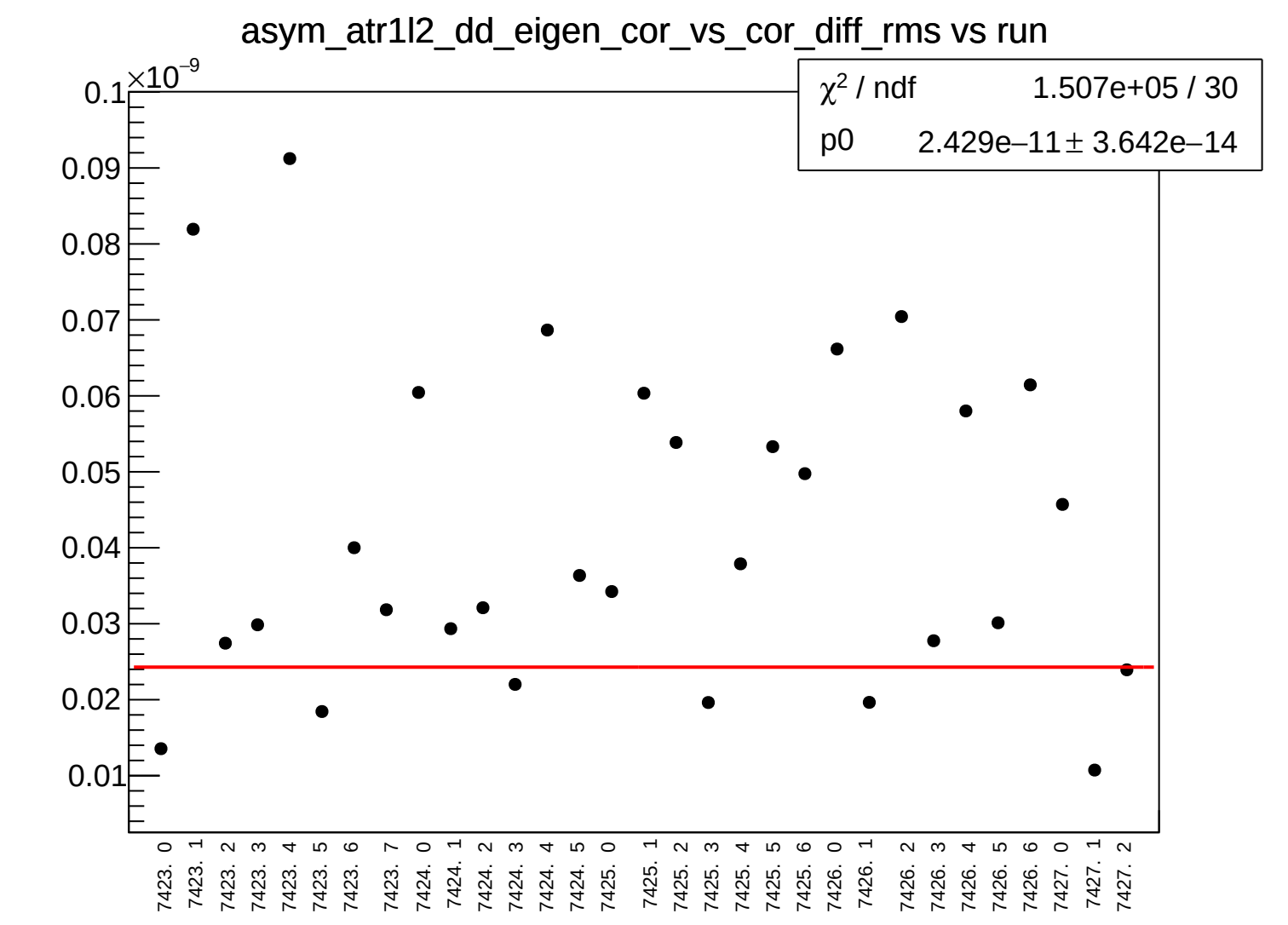

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.91 / 30
p0 −0.2529 ± 0.9565
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 504.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.006002
Std Dev 0.9657
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

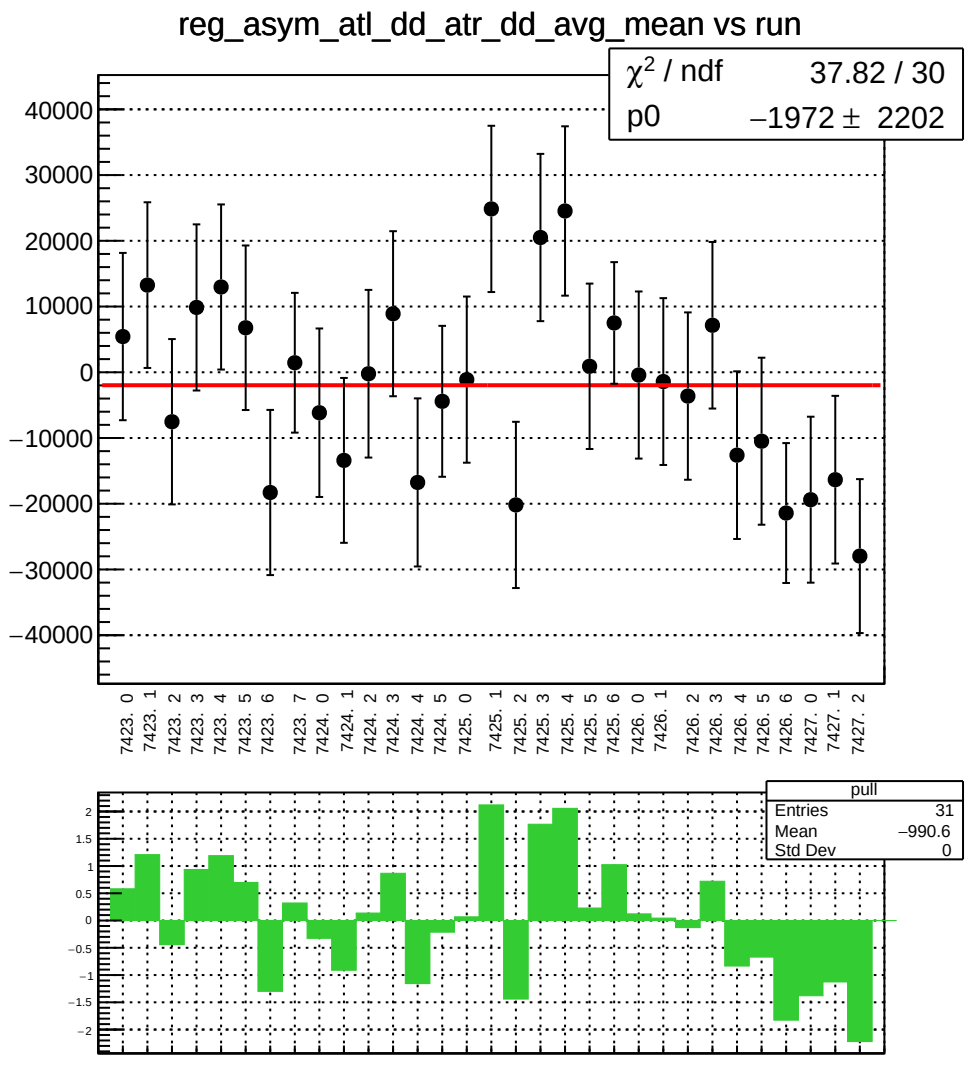

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3783 / 30
p0 520.2 ± 0.6763
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

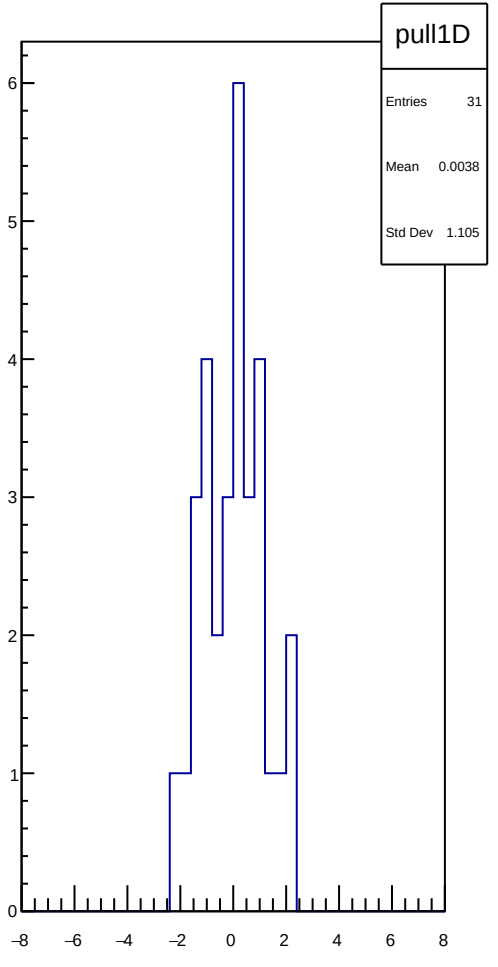

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.91 / 30
p0 −0.2529 ± 0.9565
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 504.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.006002
Std Dev 0.9657
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

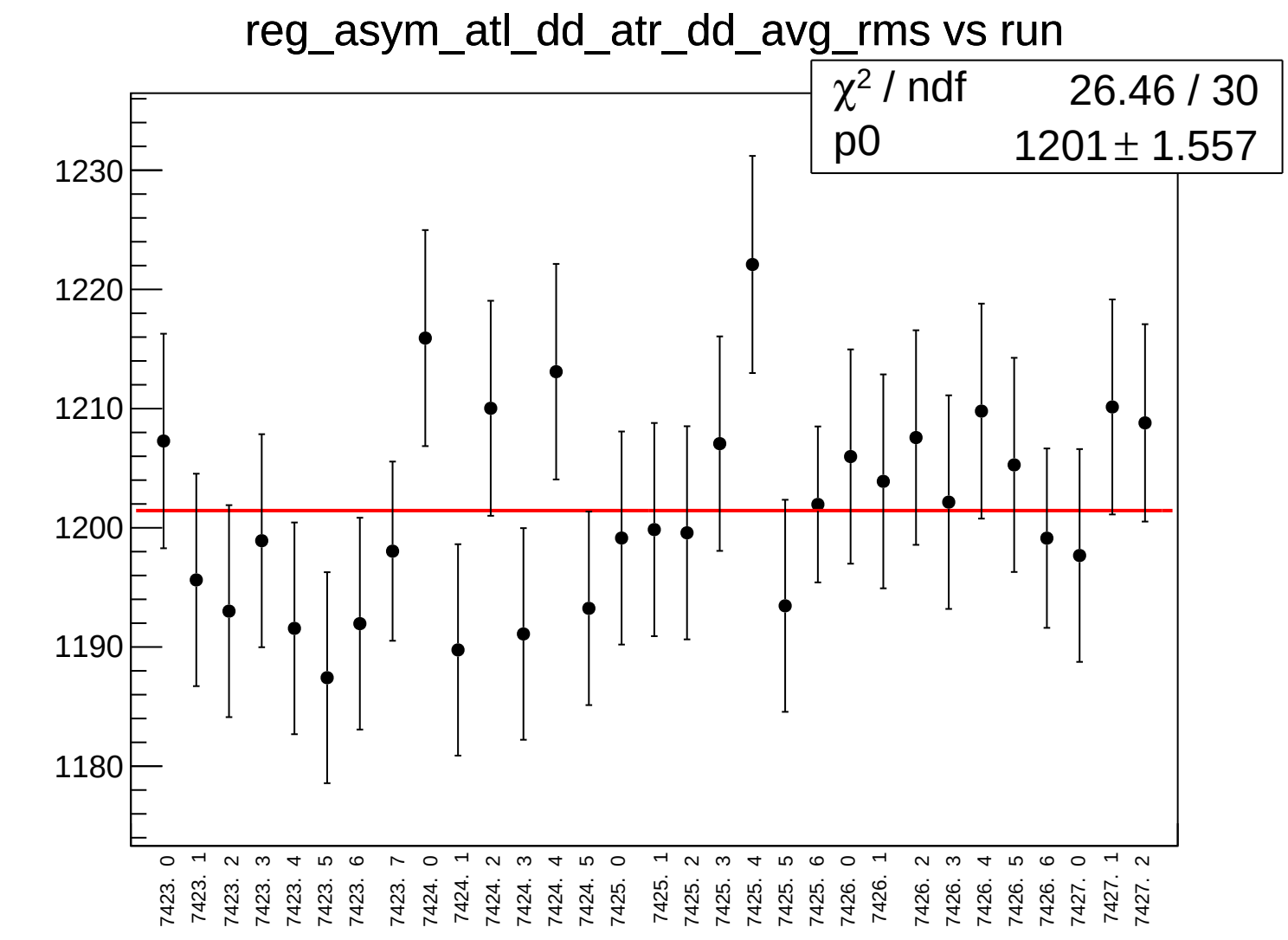

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3783 / 30
p0 520.2 ± 0.6763
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

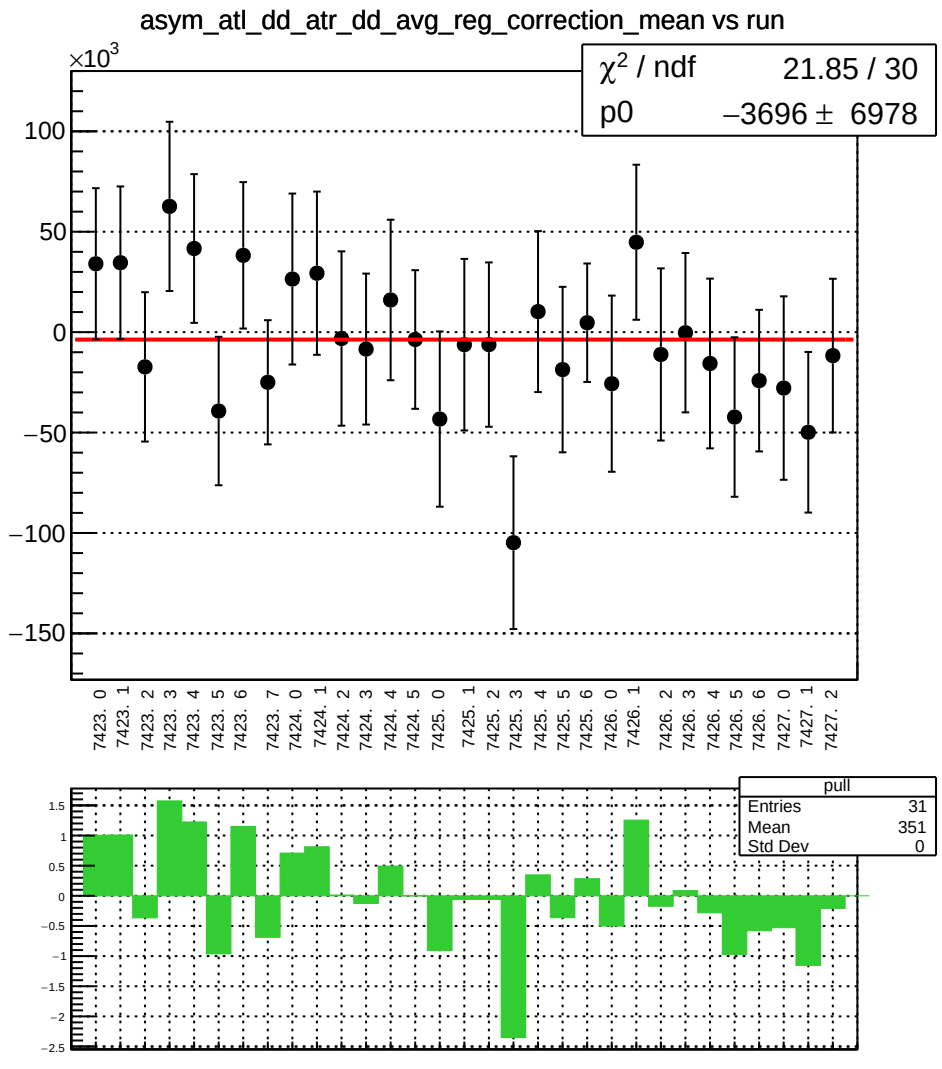

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 30.35 / 30
p0 8.14e−15 ± 5.15e−14
pull
Entries 31
Mean −37.79
Std Dev 0
pull1D
Entries 31
Mean −0.04582
Std Dev 0.9884

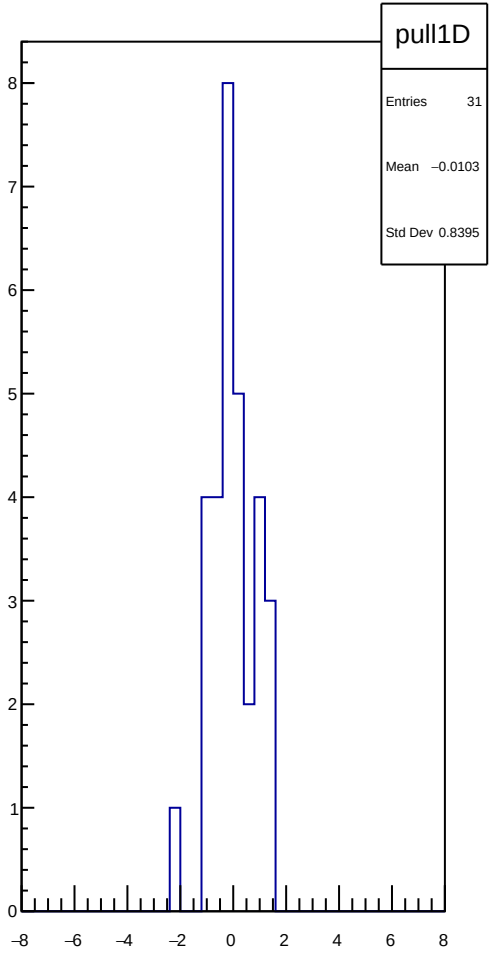

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 30
p0 2.429e−11 ± 3.642e−14
×10⁻⁹
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

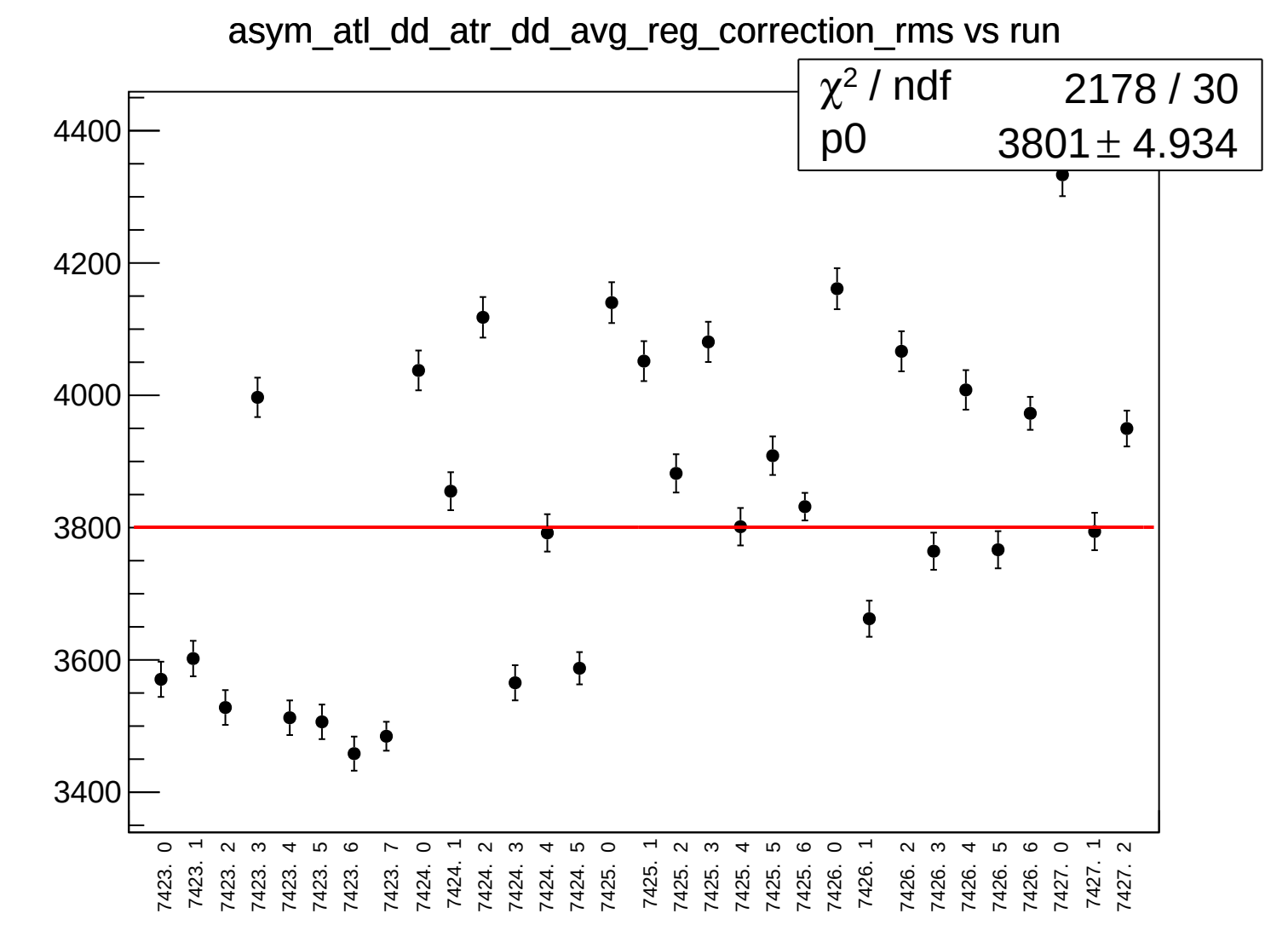

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 37.82 / 30
p0 −1972 ± 2202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −990.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

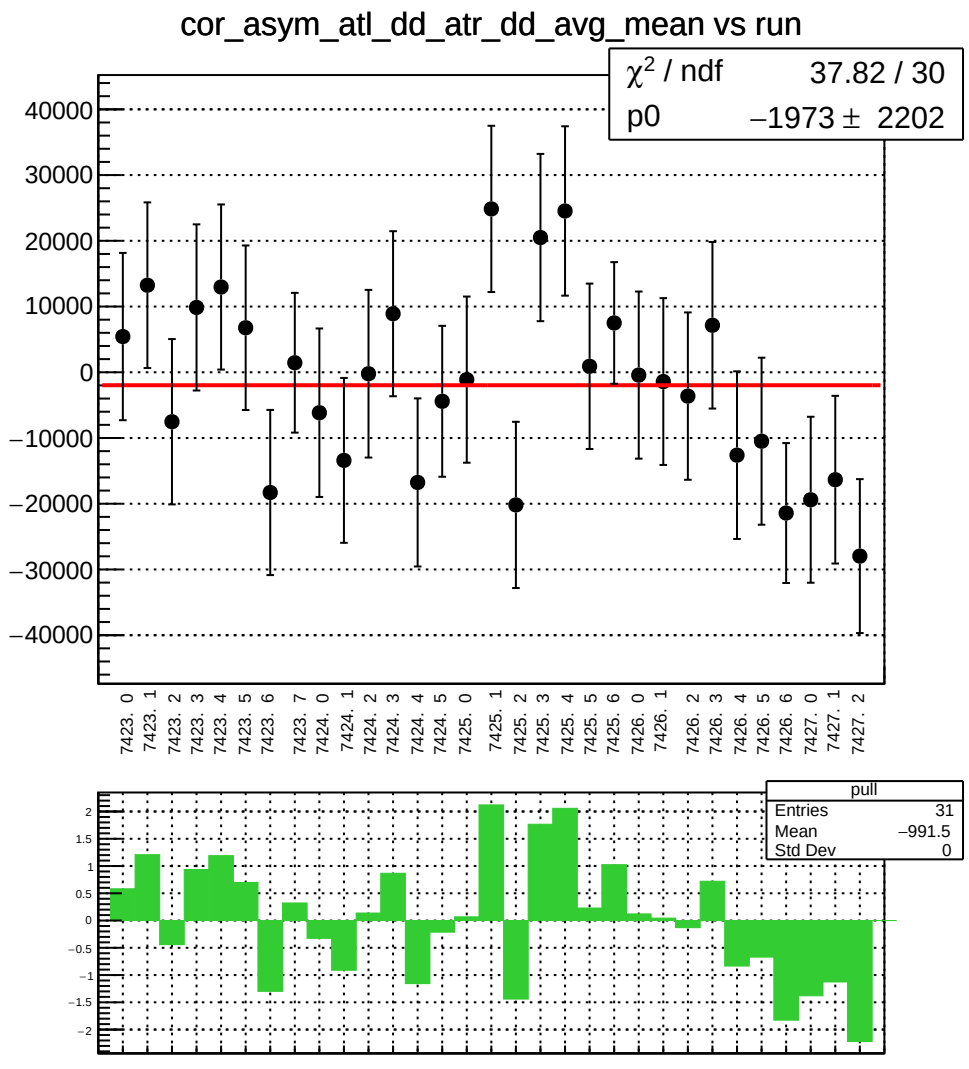

pull1D
Entries 31
Mean 0.0038
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

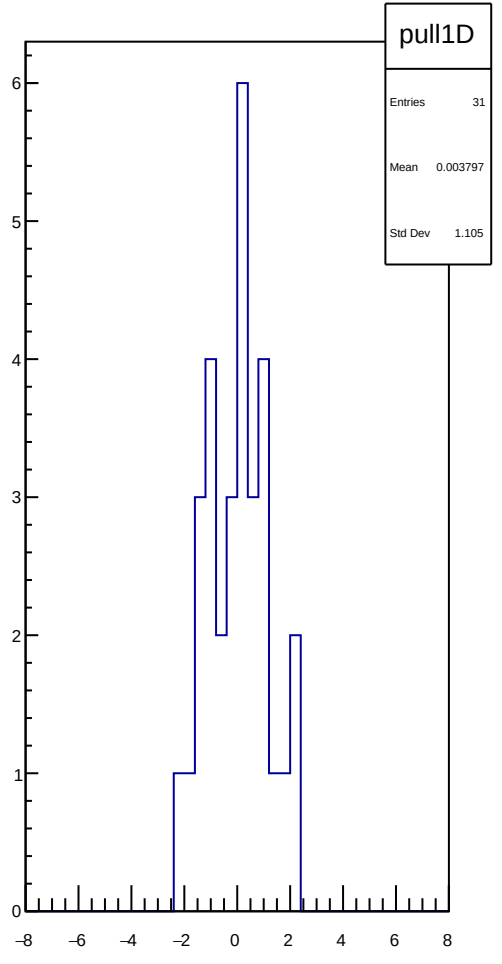

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 26.46 / 30
p0 1201 ± 1.557
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

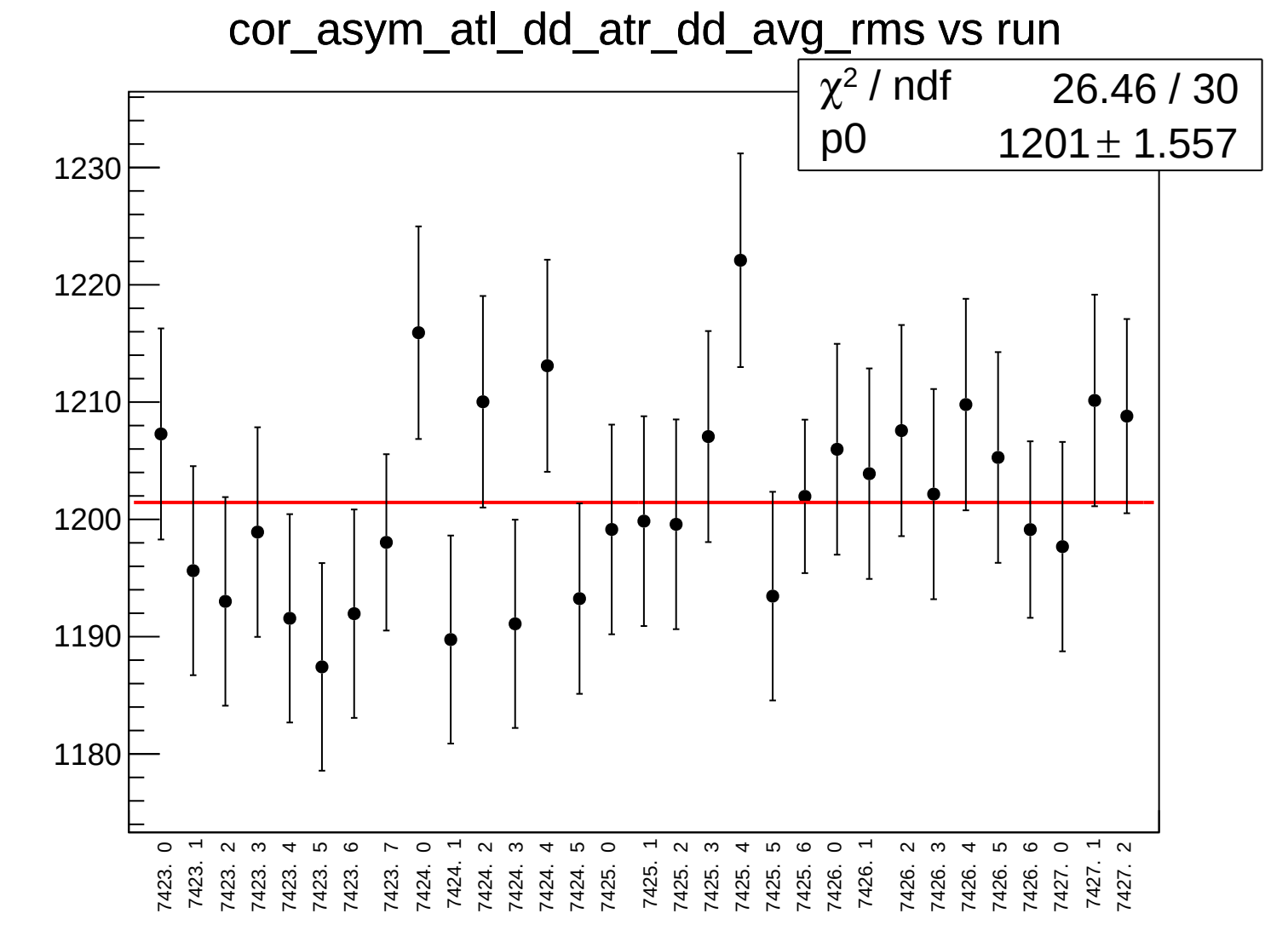

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 21.85 / 30
p0 −3696 ± 6978
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 351
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

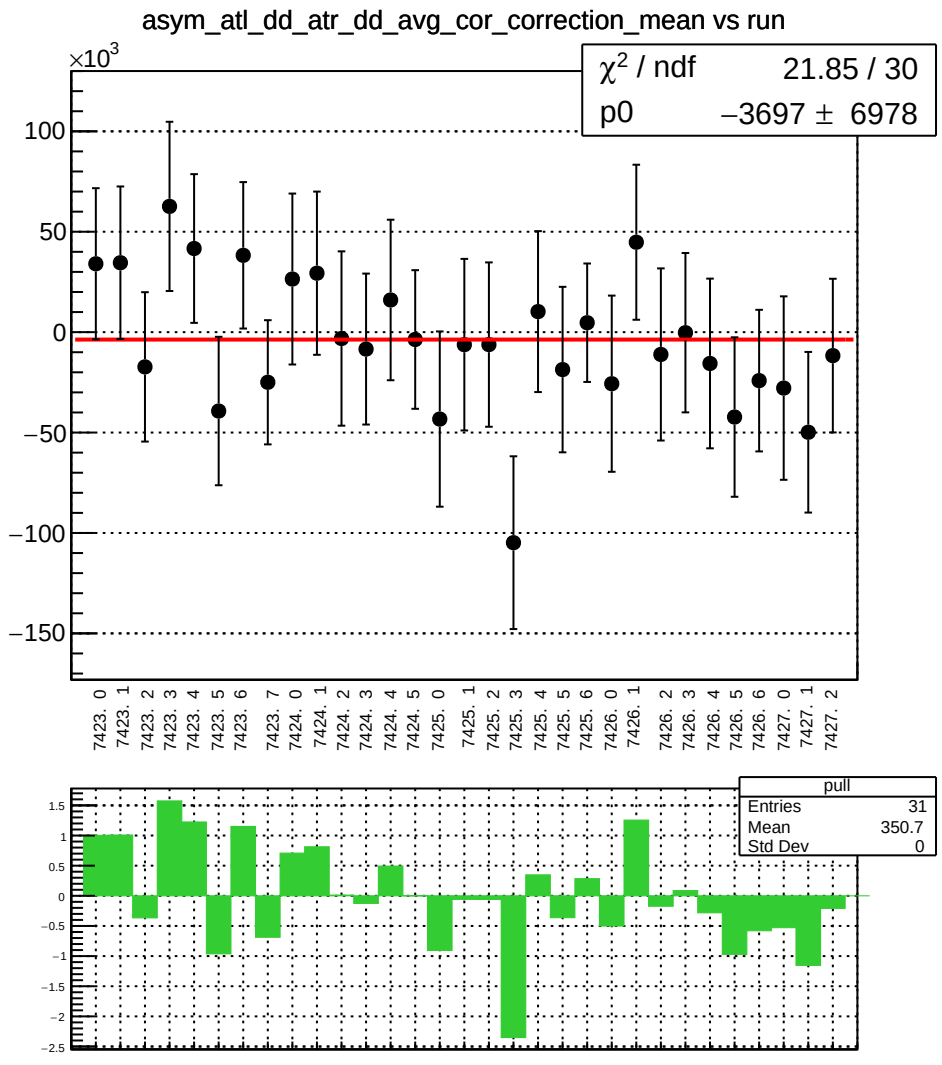

pull1D
Entries 31
Mean −0.0103
Std Dev 0.8395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

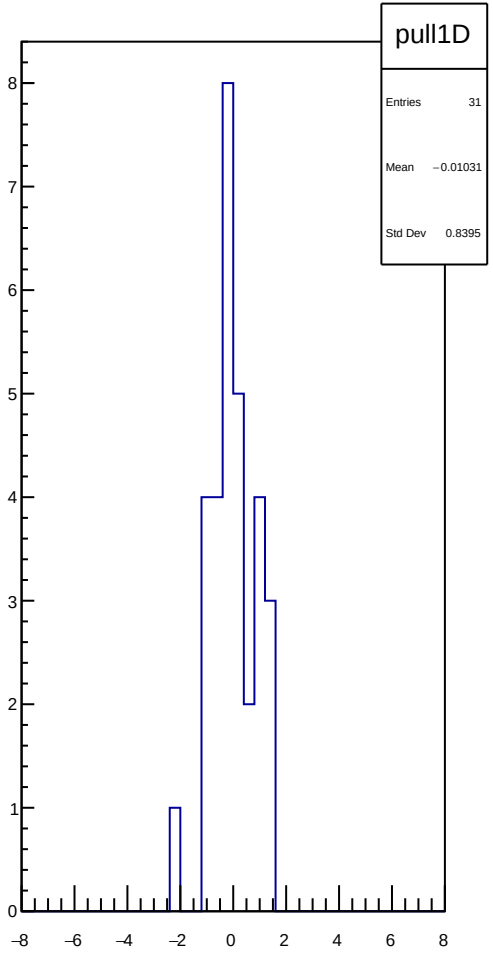

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 2178 / 30
p0 3801 ± 4.934
4400
4200
4000
3800
3600
3400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

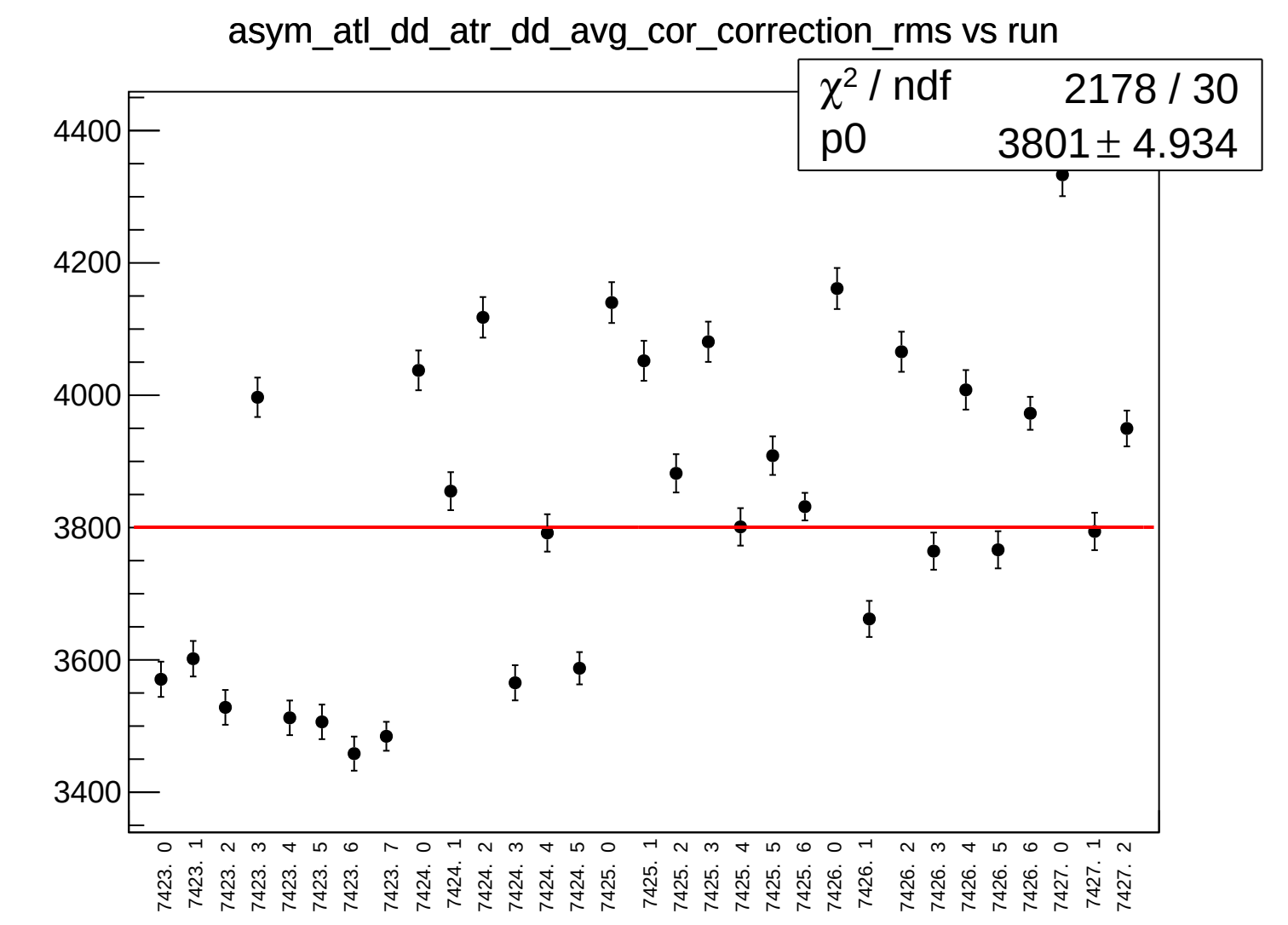

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 37.82 / 30
p0 −1973 ± 2202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −991.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

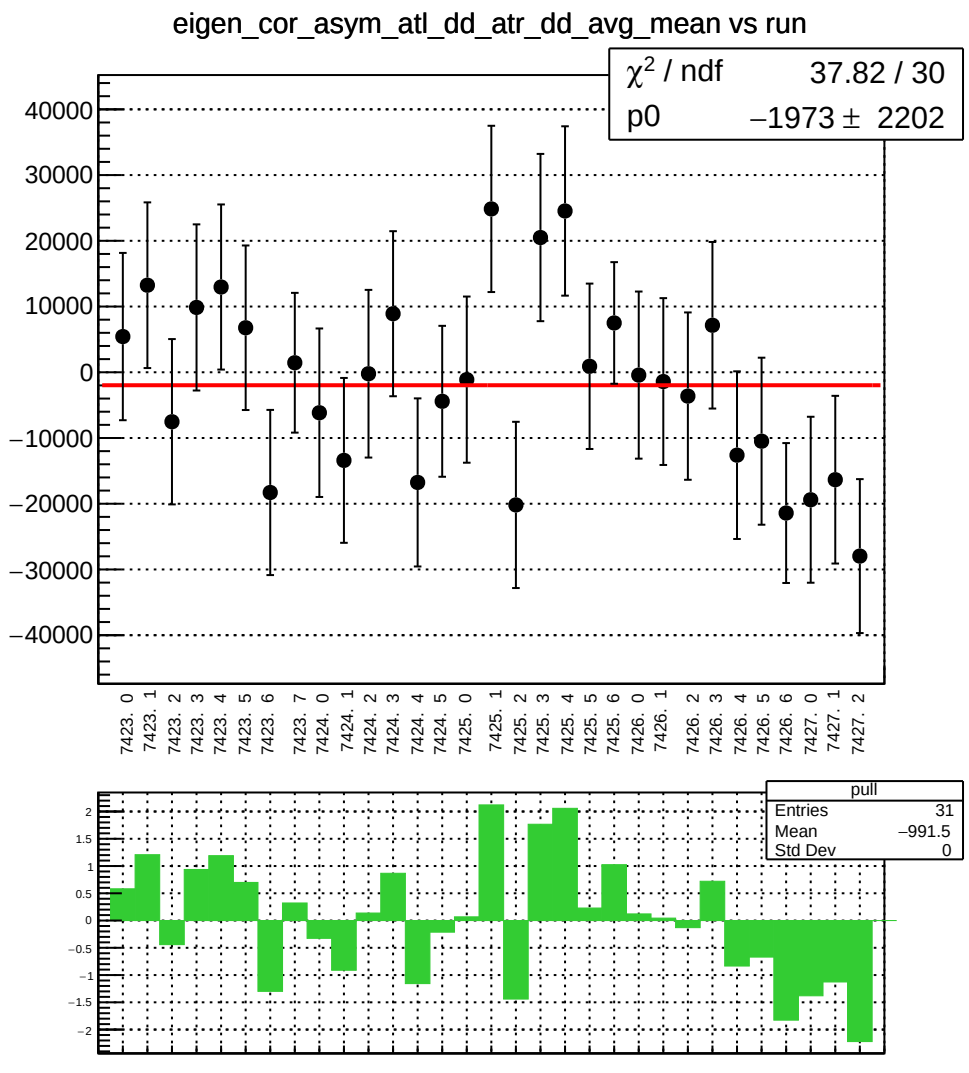

pull1D
Entries 31
Mean 0.003797
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

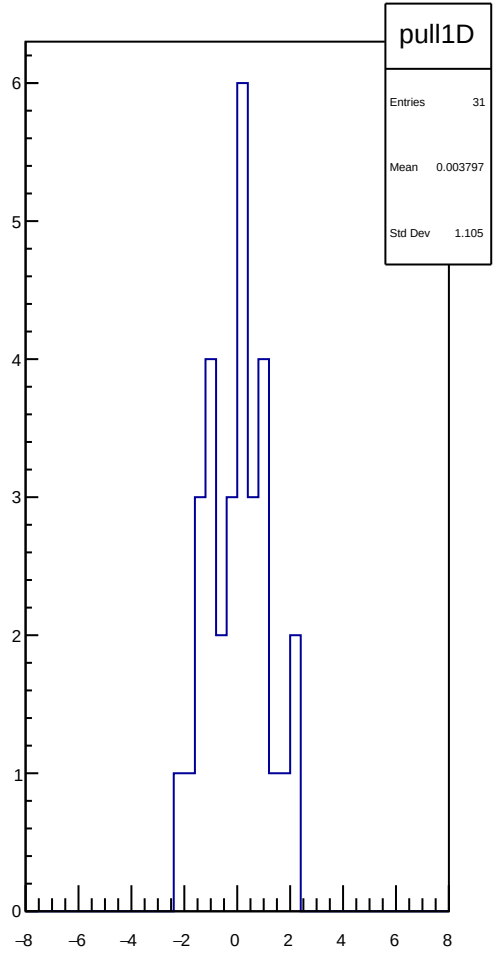

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 26.46 / 30
p0 1201 ± 1.557
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

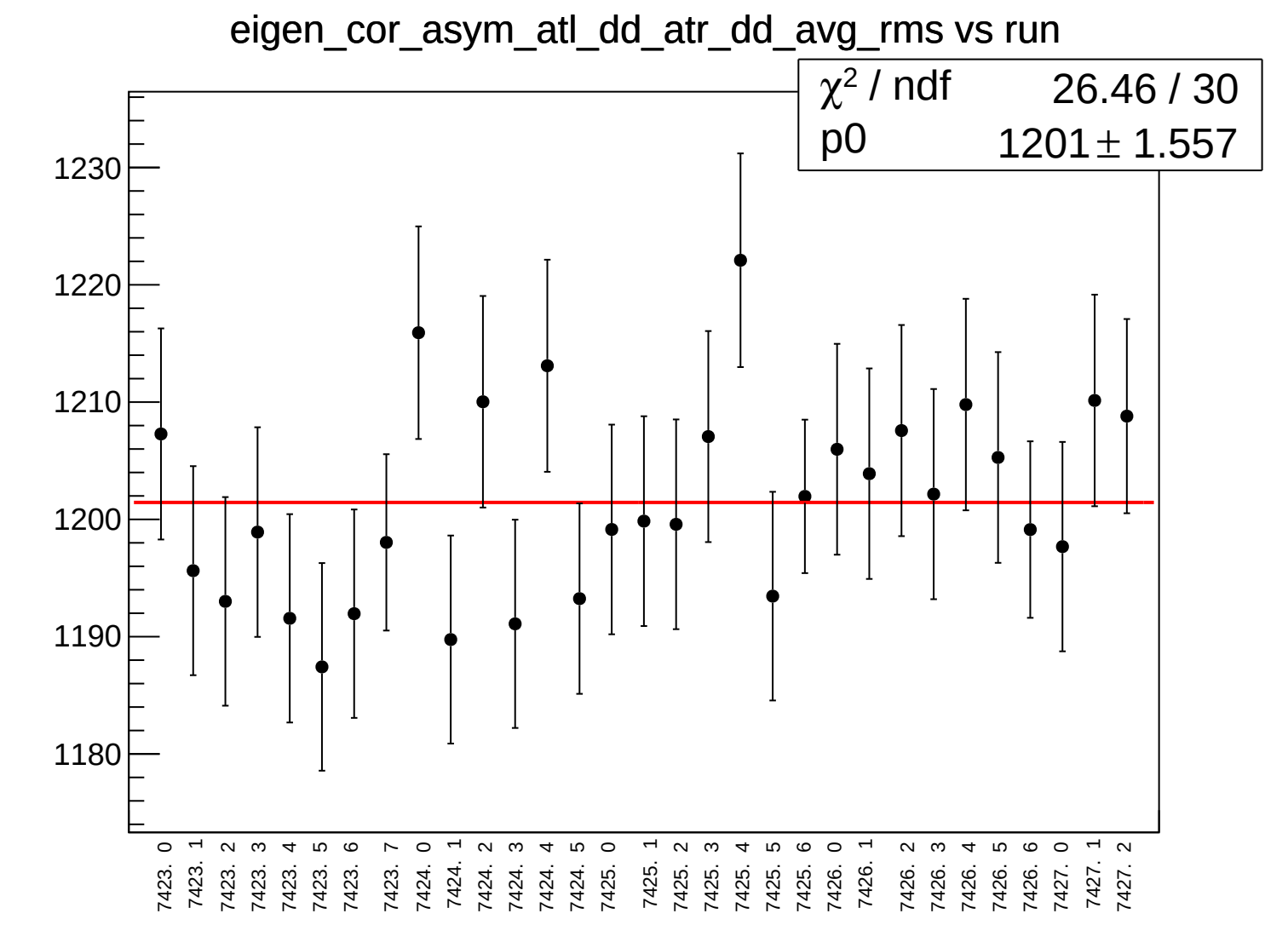

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 21.85 / 30
p0 −3697 ± 6978
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 350.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

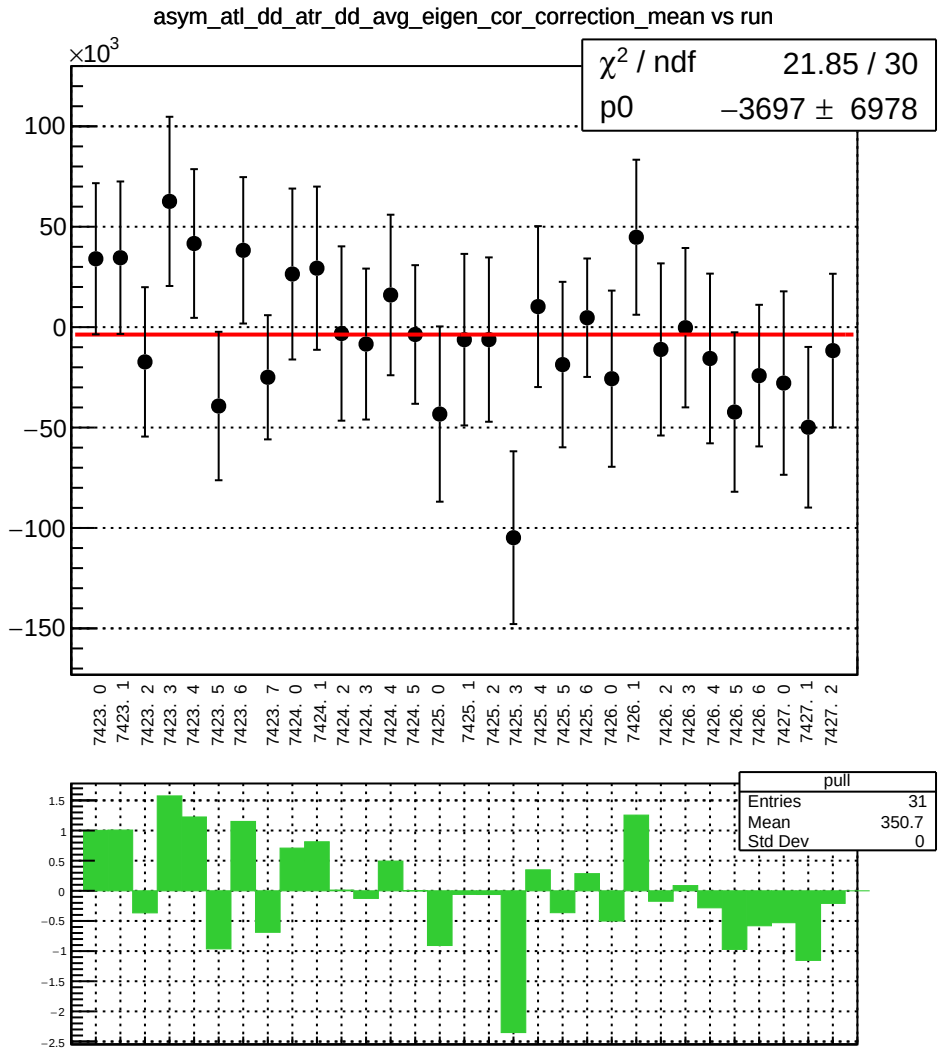

pull1D
Entries 31
Mean −0.01031
Std Dev 0.8395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

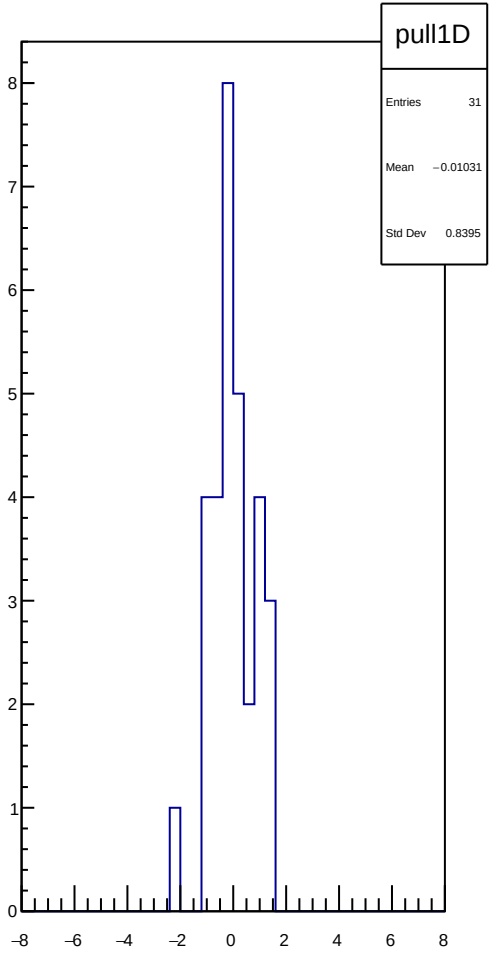

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 2178 / 30
p0 3801 ± 4.934
4400
4200
4000
3800
3600
3400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

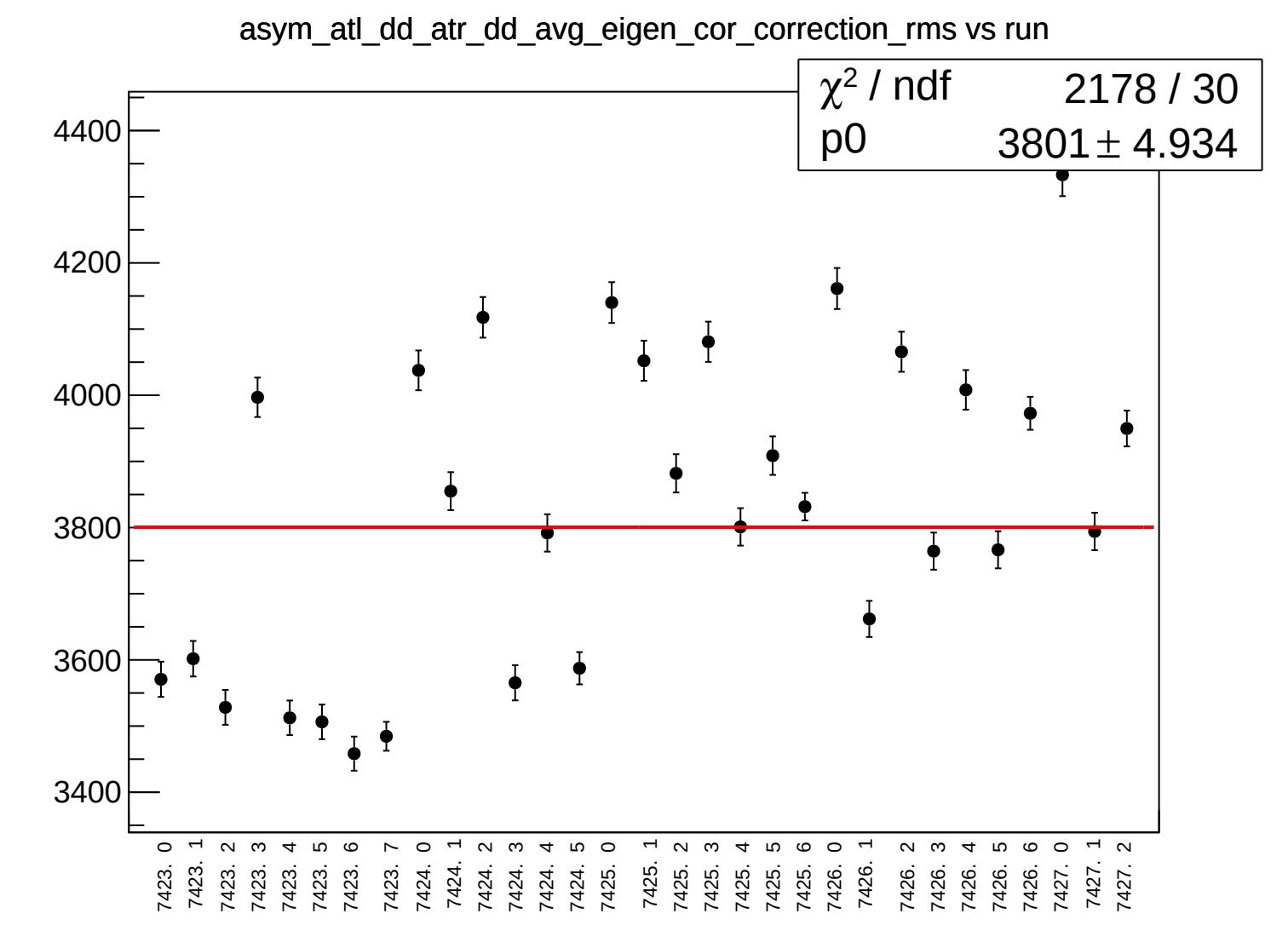

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 37.82 / 30
p0 −1973 ± 2202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −991.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

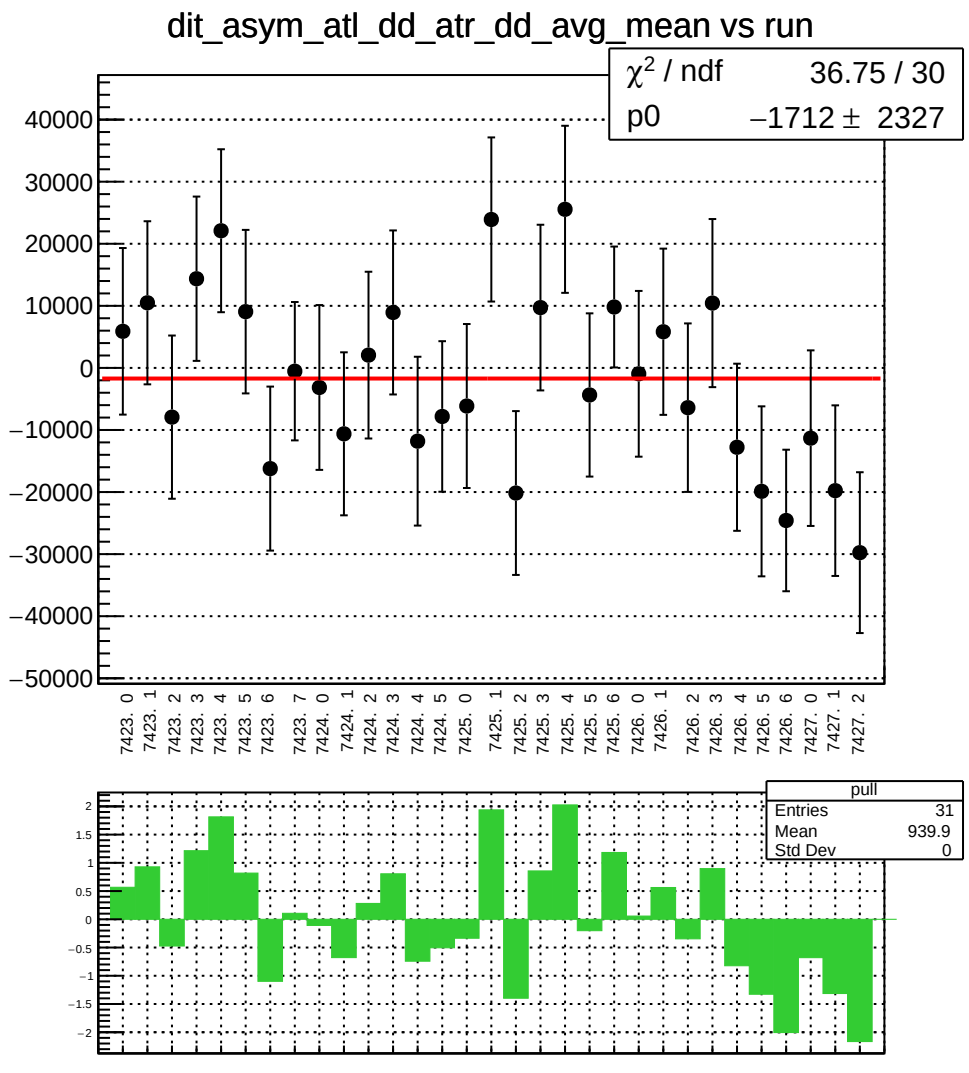

pull1D
Entries 31
Mean 0.003797
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

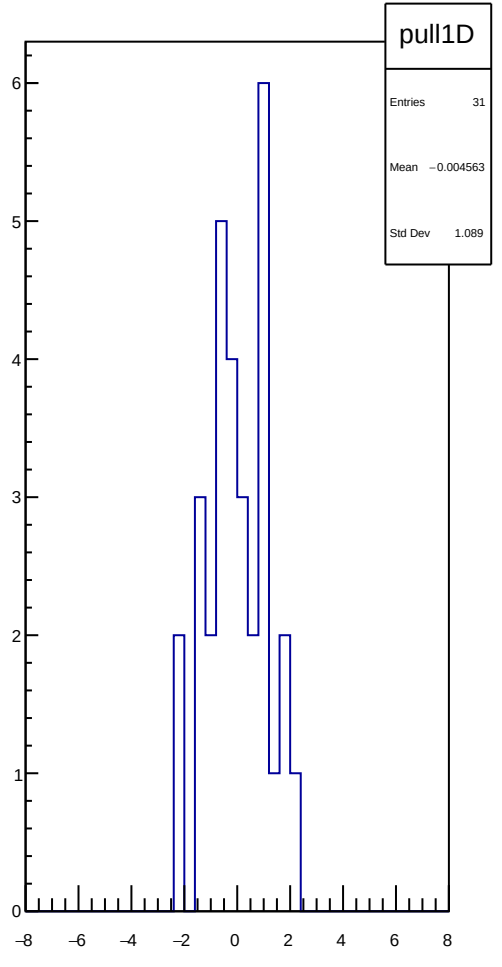

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 26.46 / 30
p0 1201 ± 1.557
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

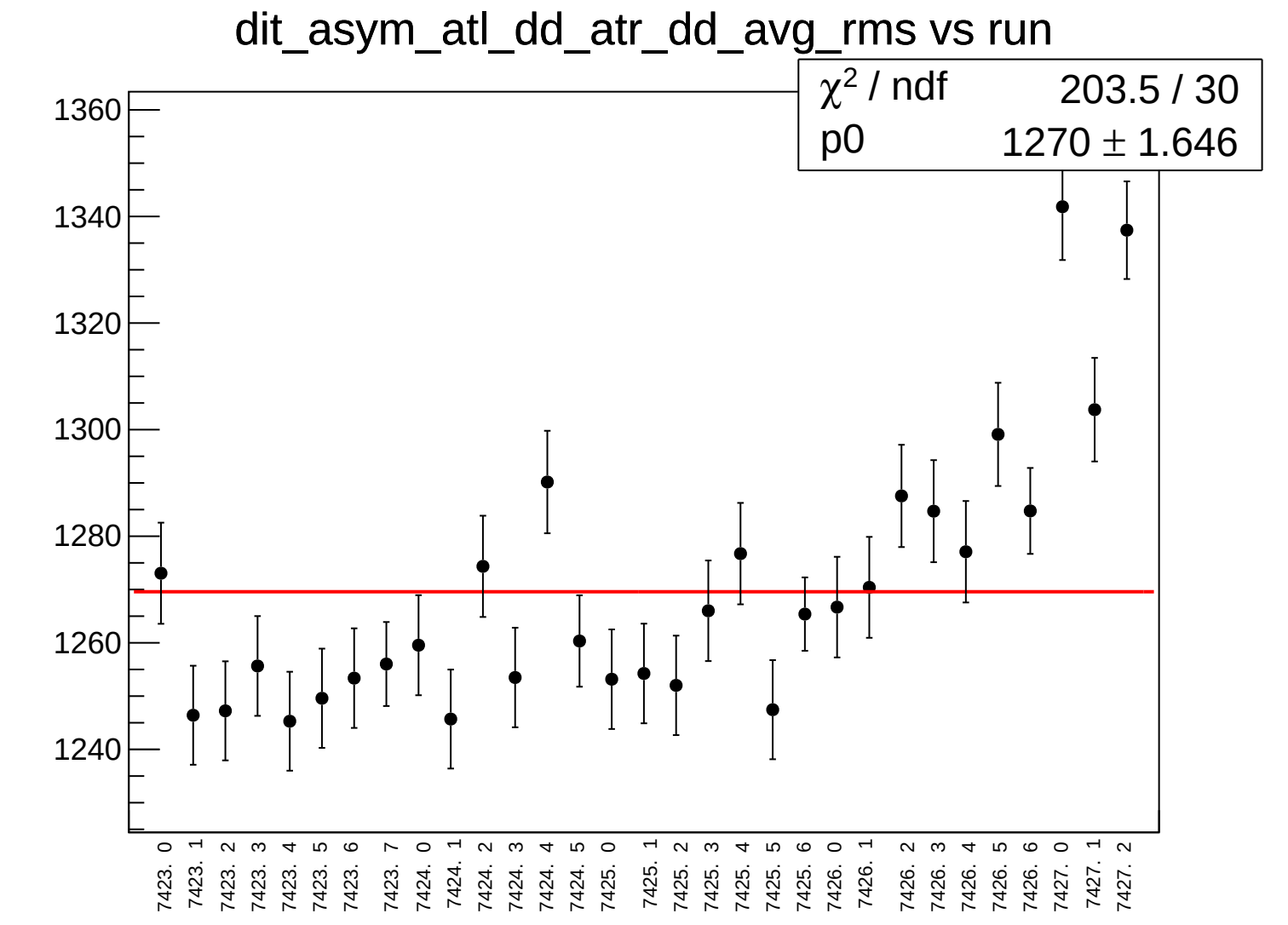

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.85 / 30
p0 −3697 ± 6978
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 350.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

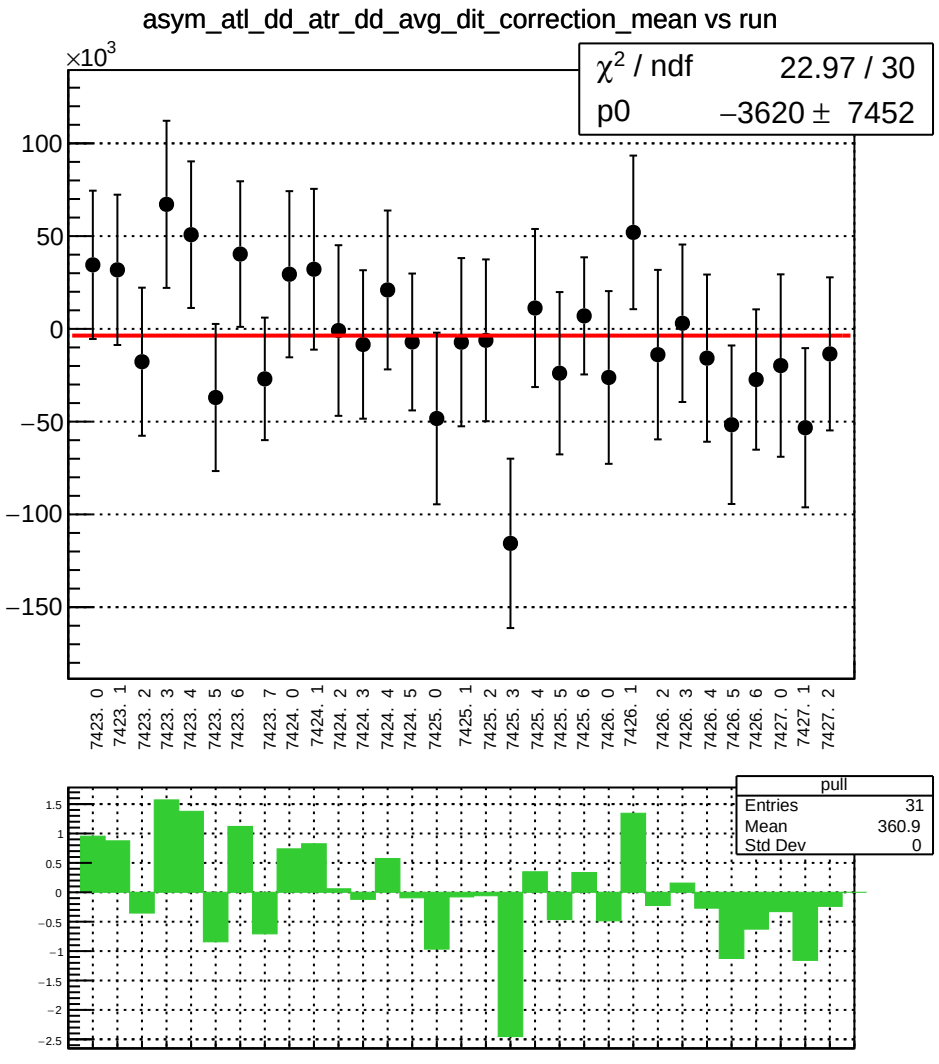

pull1D
Entries 31
Mean −0.01031
Std Dev 0.8395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

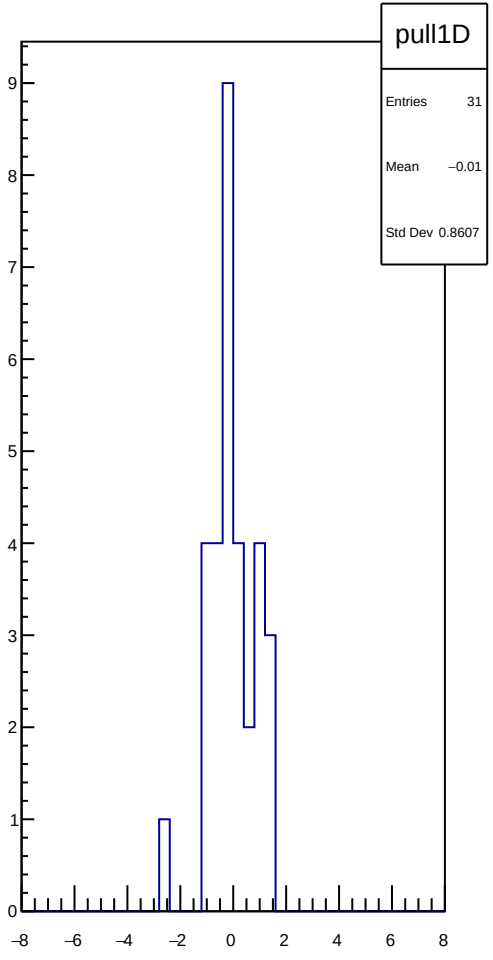

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2178 / 30
p0 3801 ± 4.934
4400
4200
4000
3800
3600
3400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

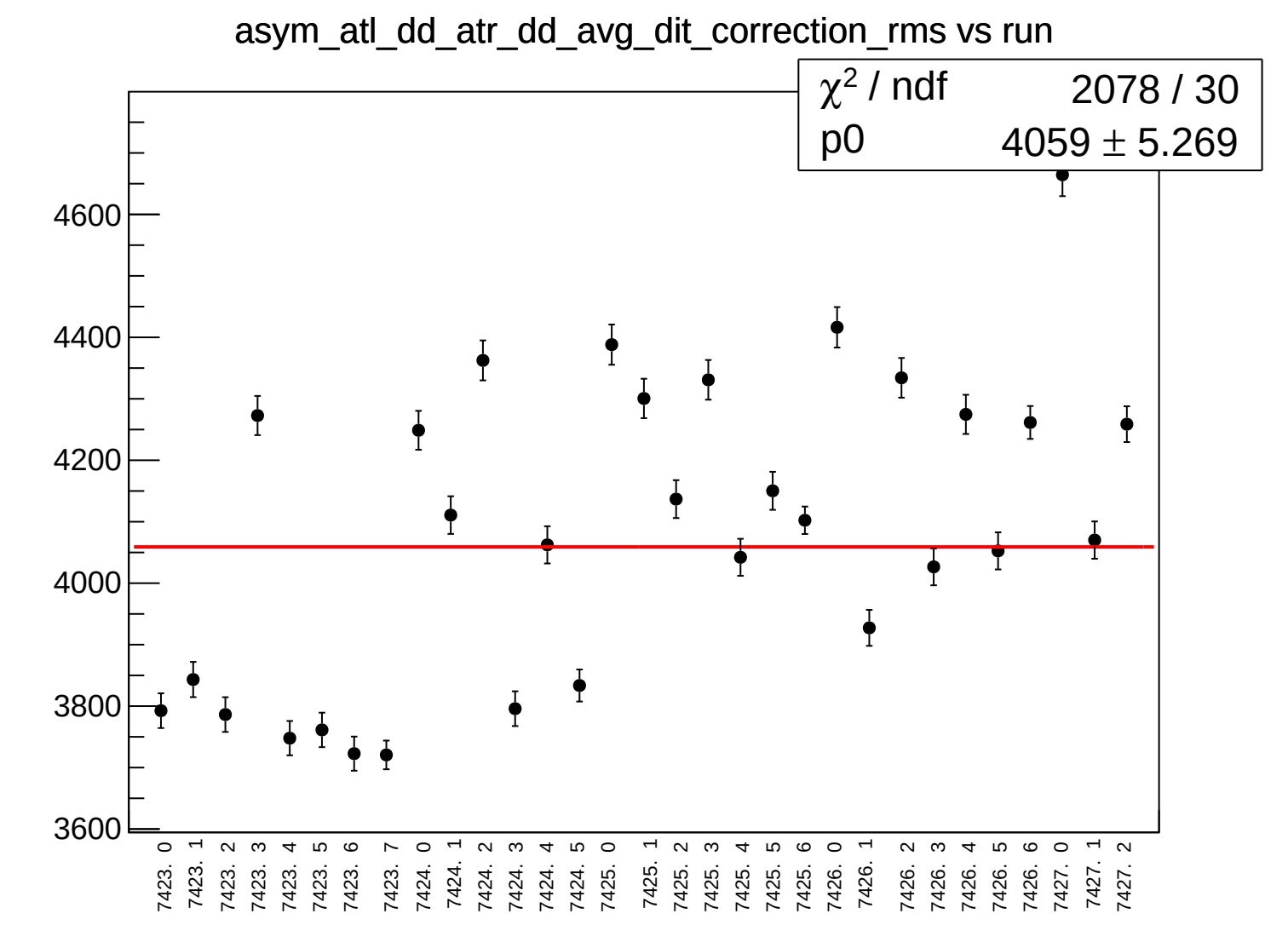

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 36.75 / 30
p0 −1712 ± 2327
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 939.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

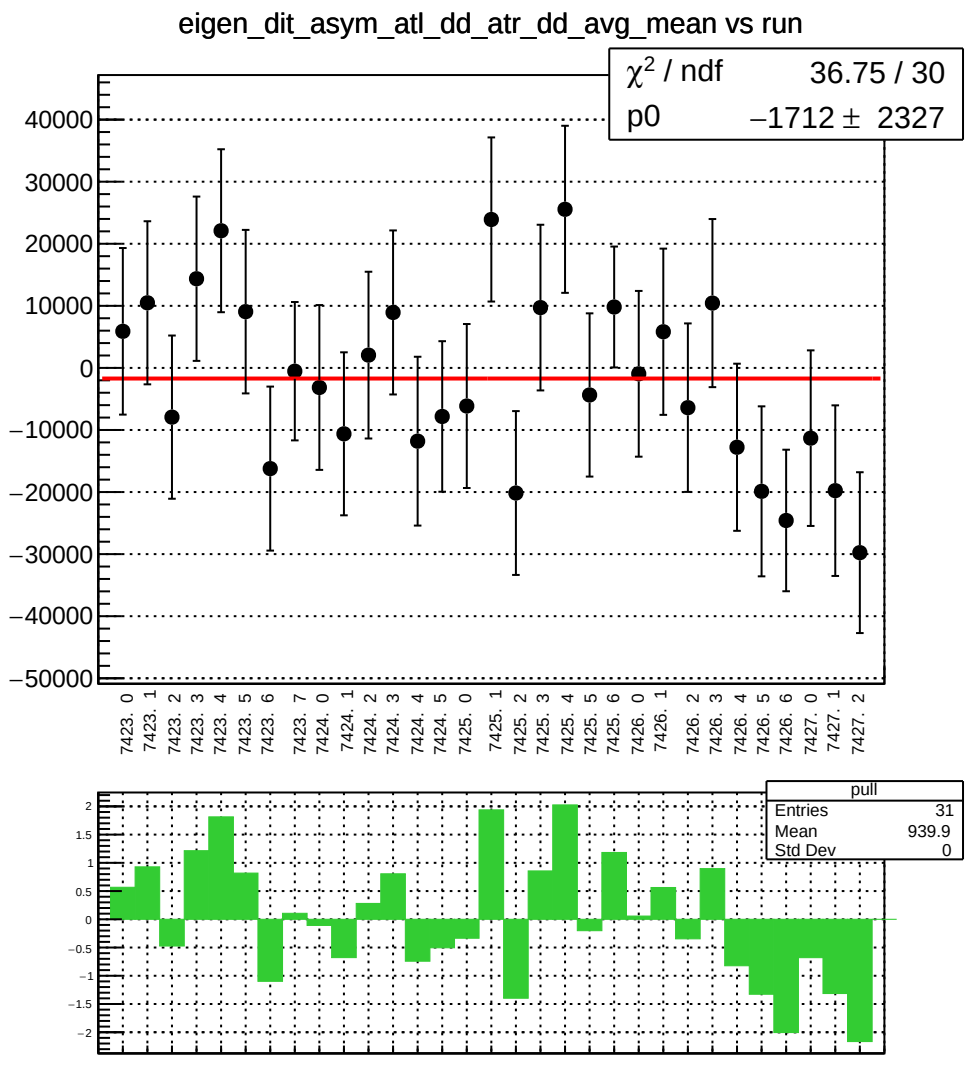

pull1D
Entries 31
Mean −0.004563
Std Dev 1.089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

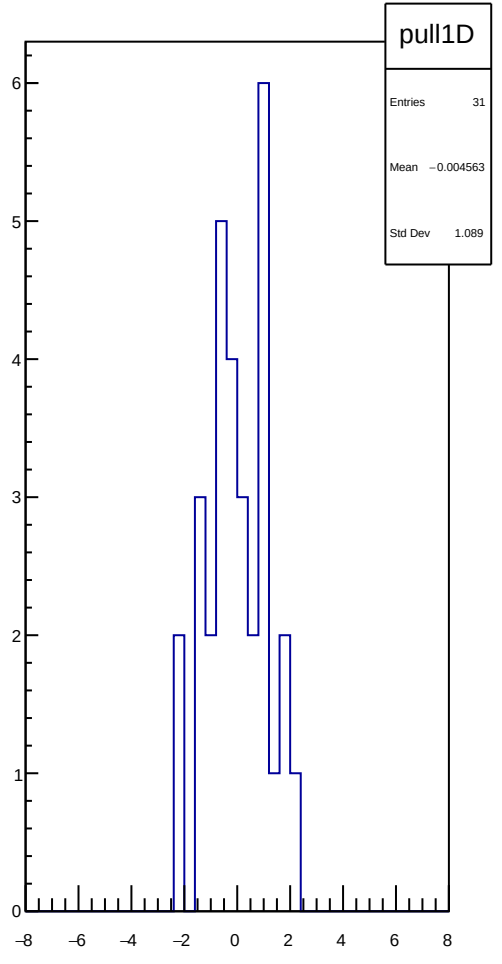

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 203.5 / 30
p0 1270 ± 1.646
1360
1340
1320
1300
1280
1260
1240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

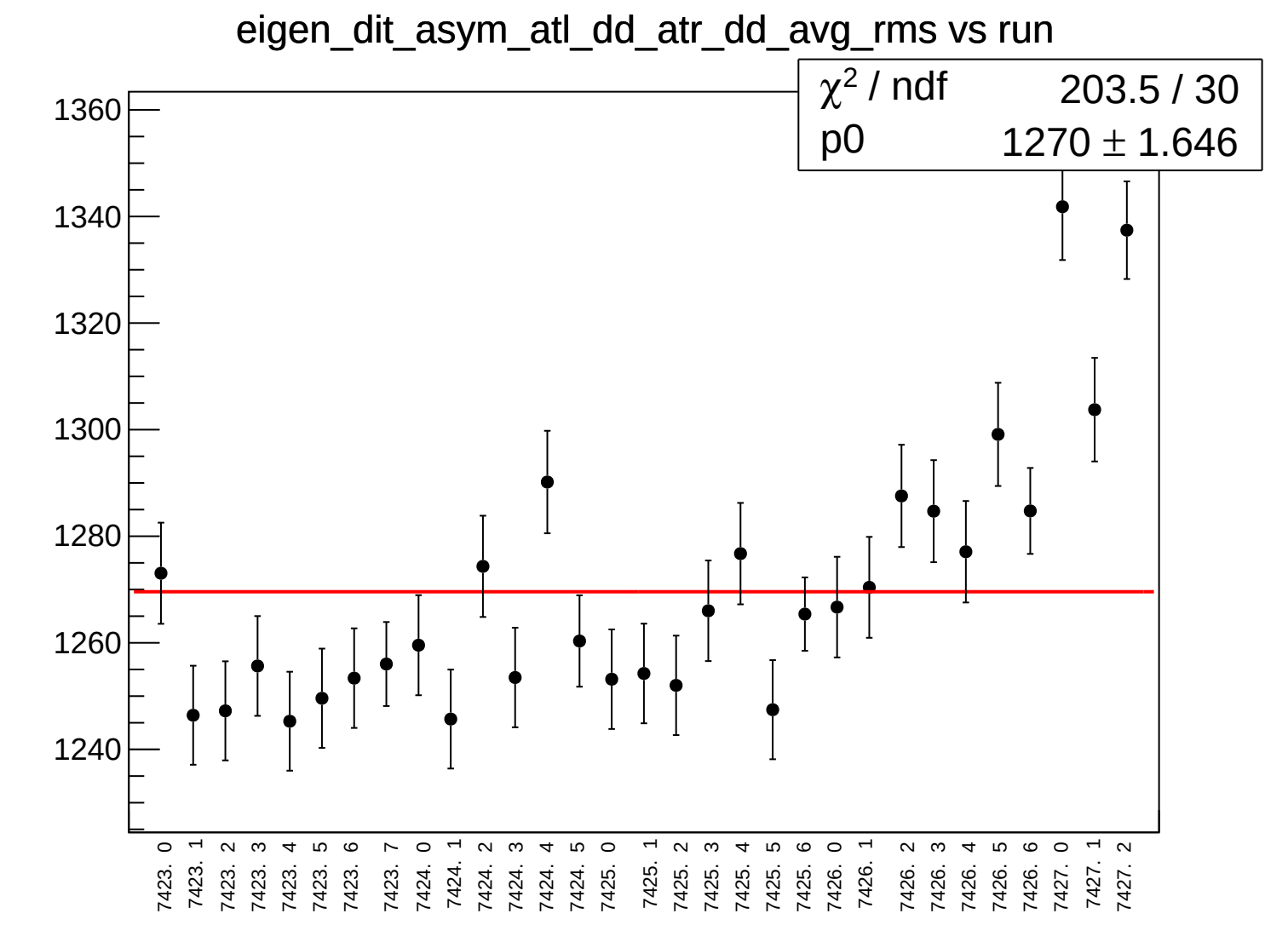

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 22.97 / 30
p0 −3620 ± 7452
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 360.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

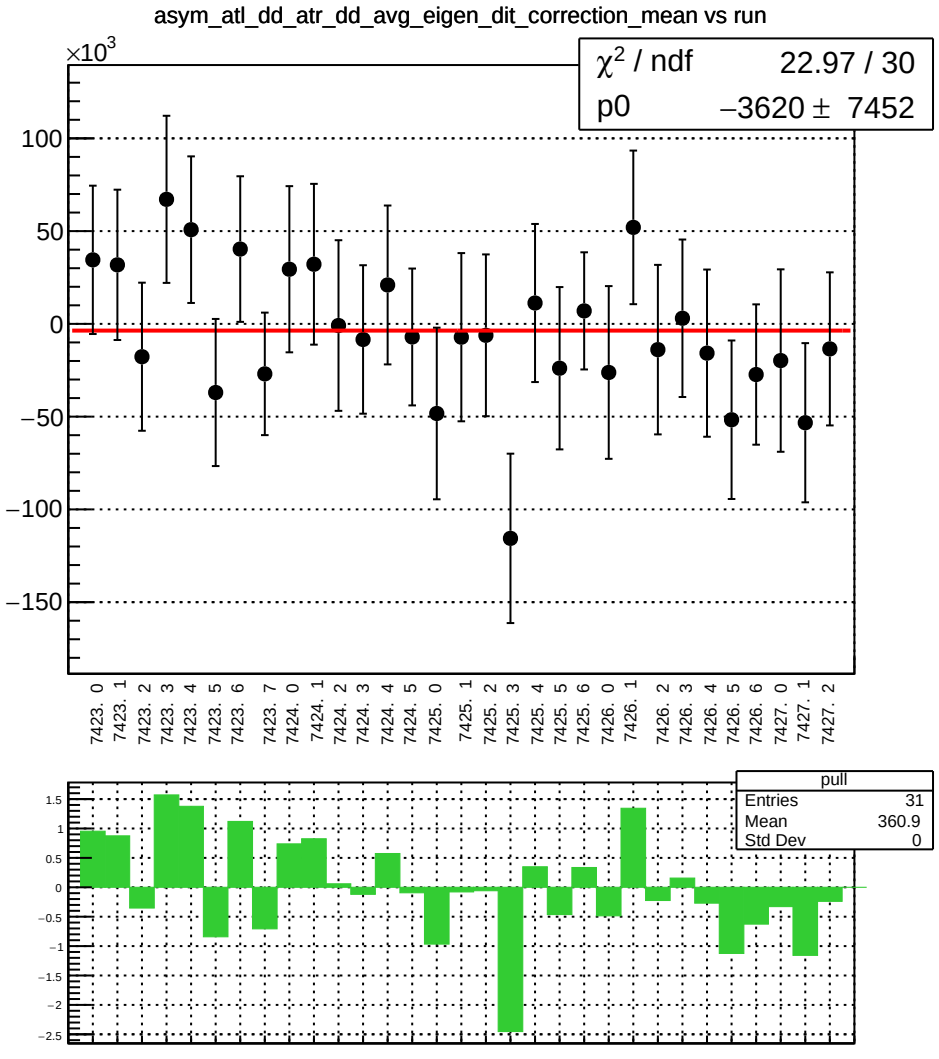

pull1D
Entries 31
Mean −0.01
Std Dev 0.8607
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

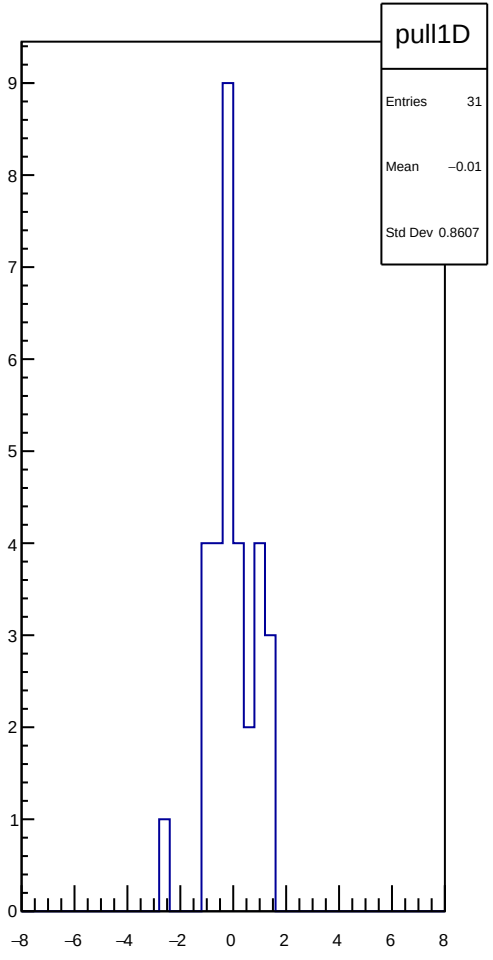

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 2078 / 30
p0 4059 ± 5.269
4600
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

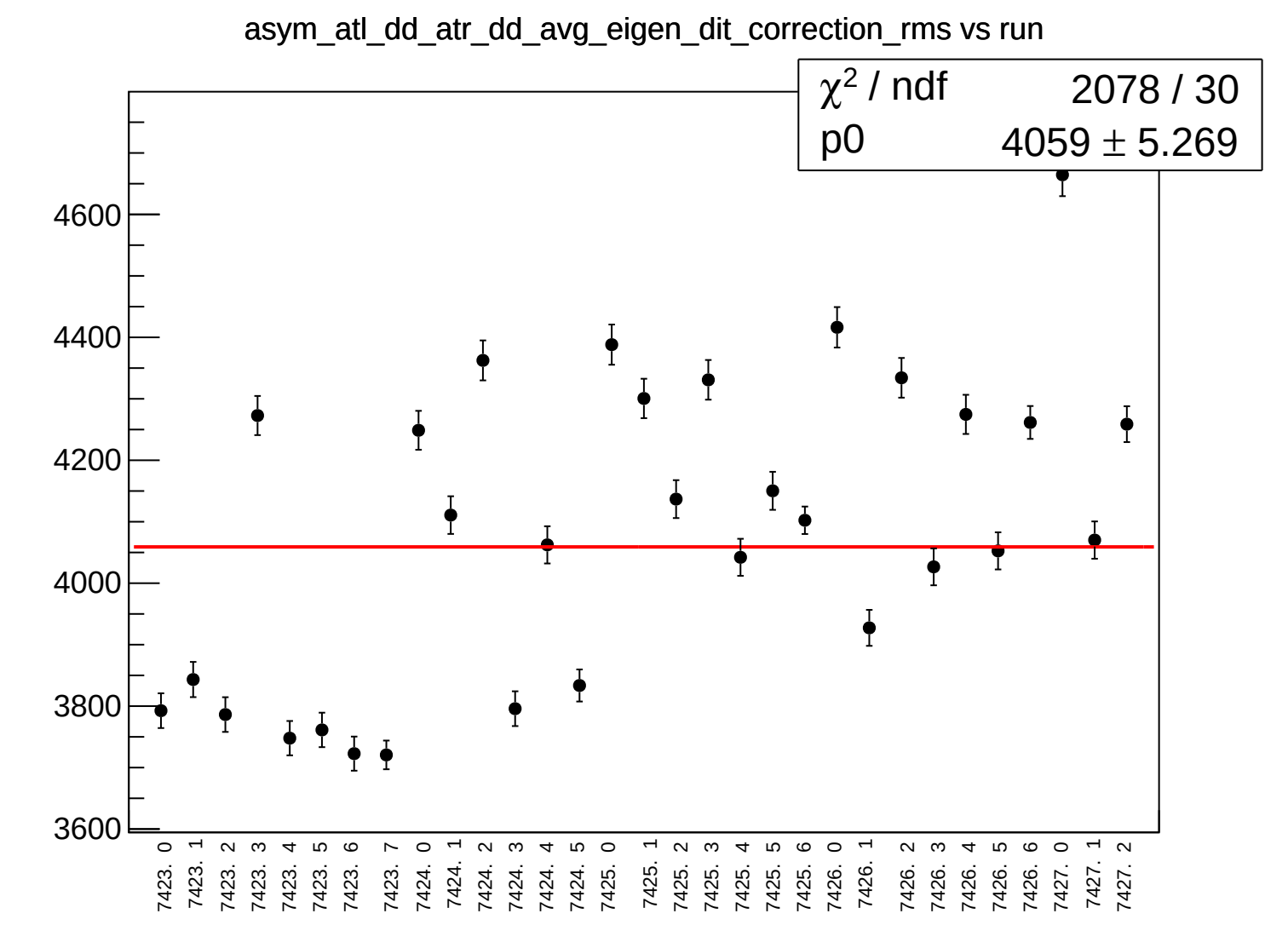

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 36.75 / 30
p0 −1712 ± 2327
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 939.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

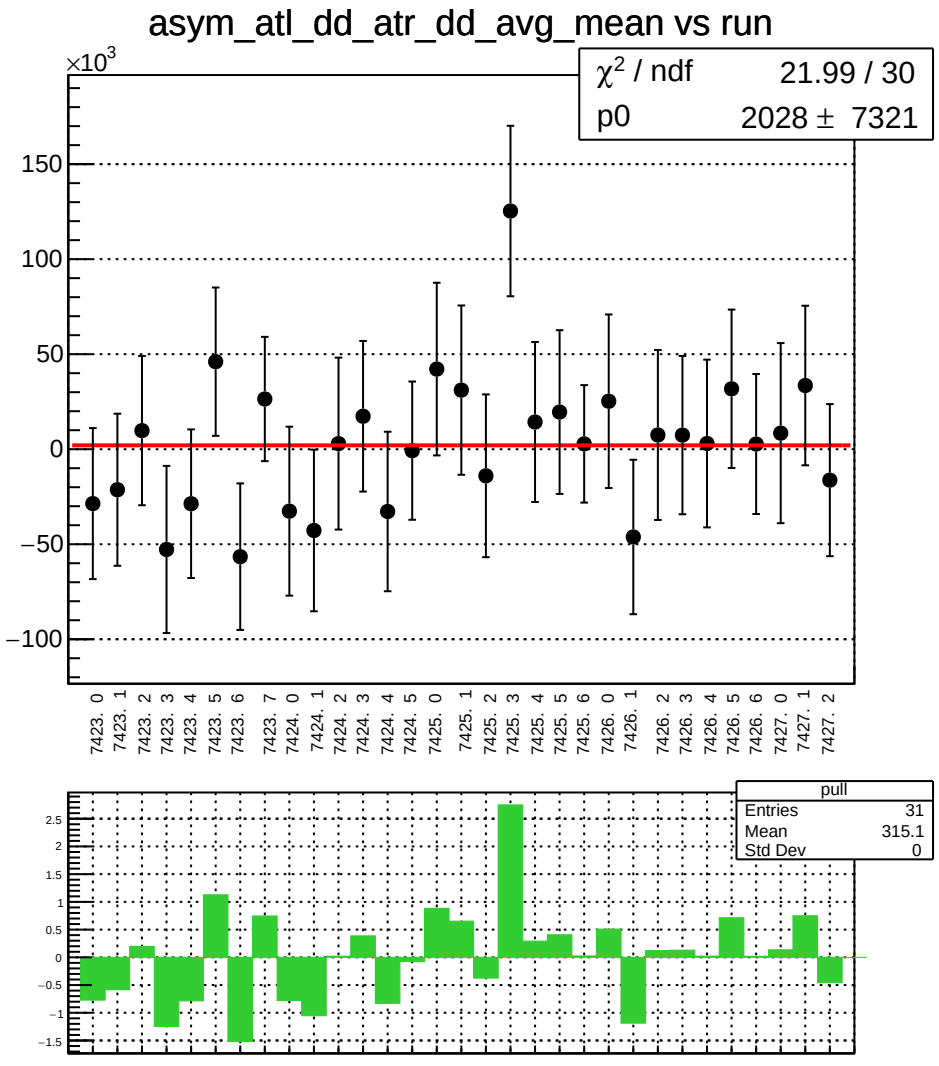

pull1D
Entries 31
Mean −0.004563
Std Dev 1.089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

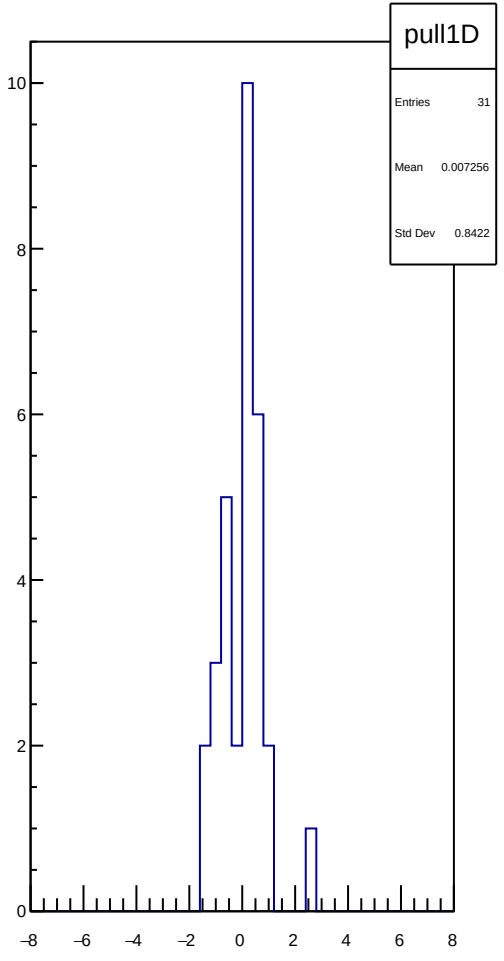

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 203.5 / 30
p0 1270 ± 1.646
1360
1340
1320
1300
1280
1260
1240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

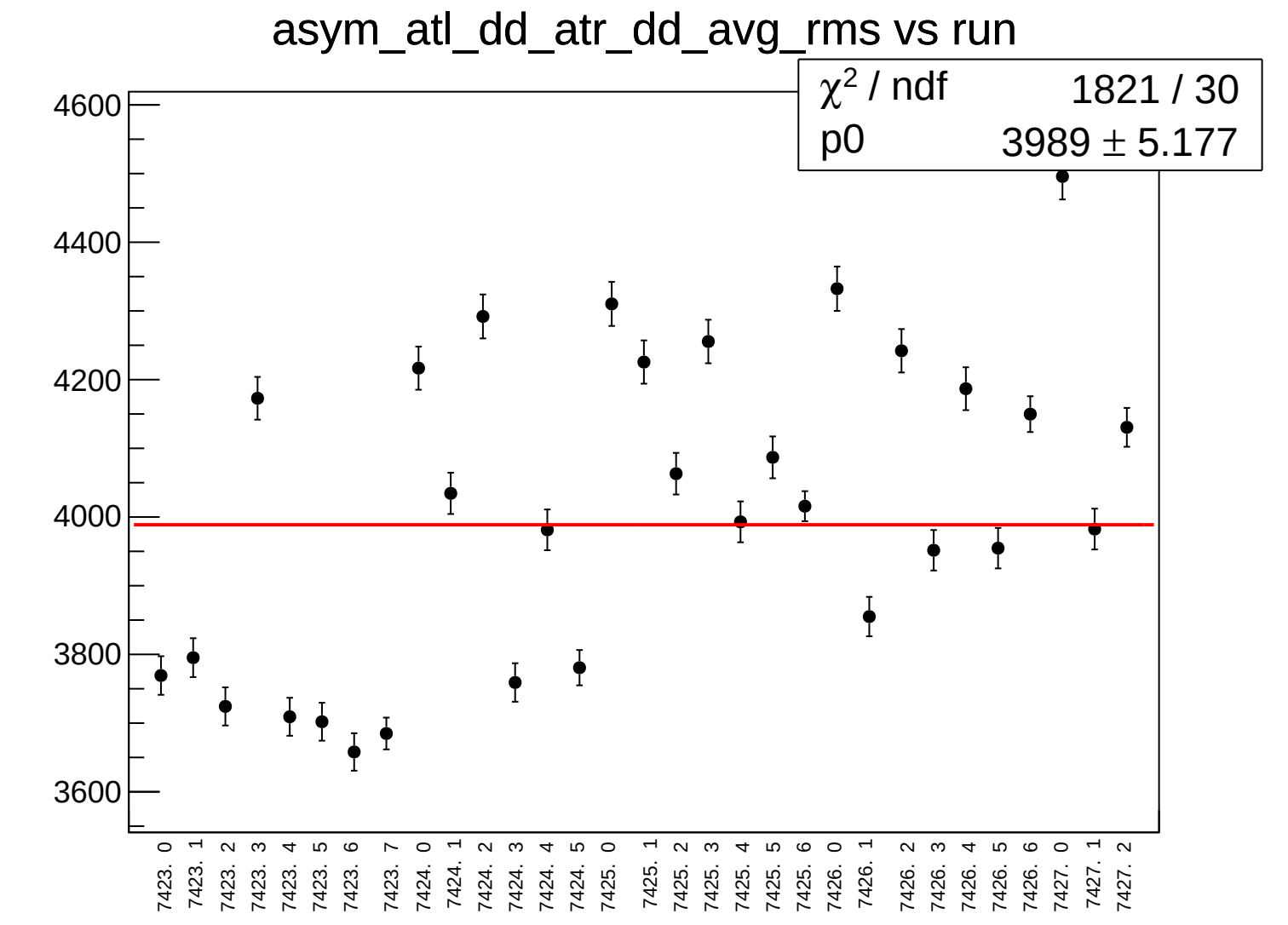

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.97 / 30
p0 −3620 ± 7452
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 360.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

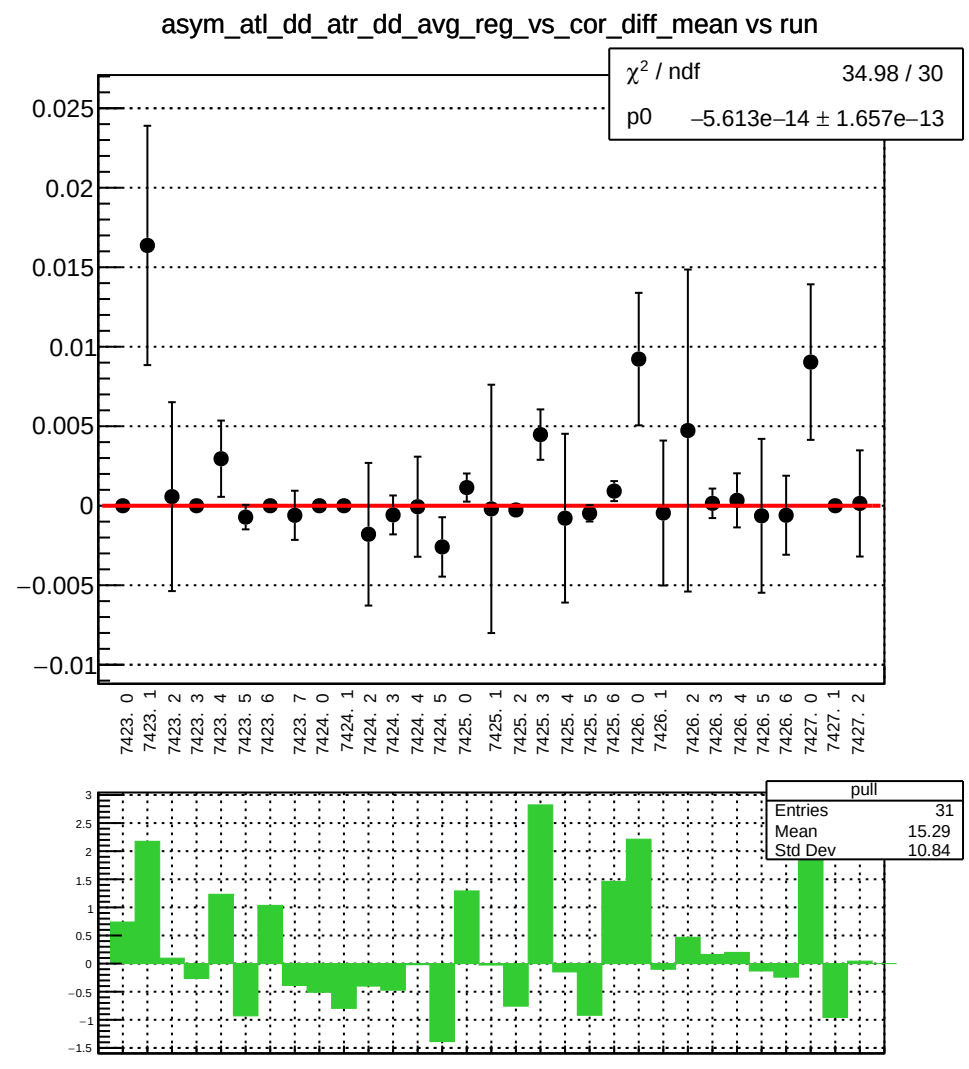

pull1D
Entries 31
Mean −0.01
Std Dev 0.8607
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

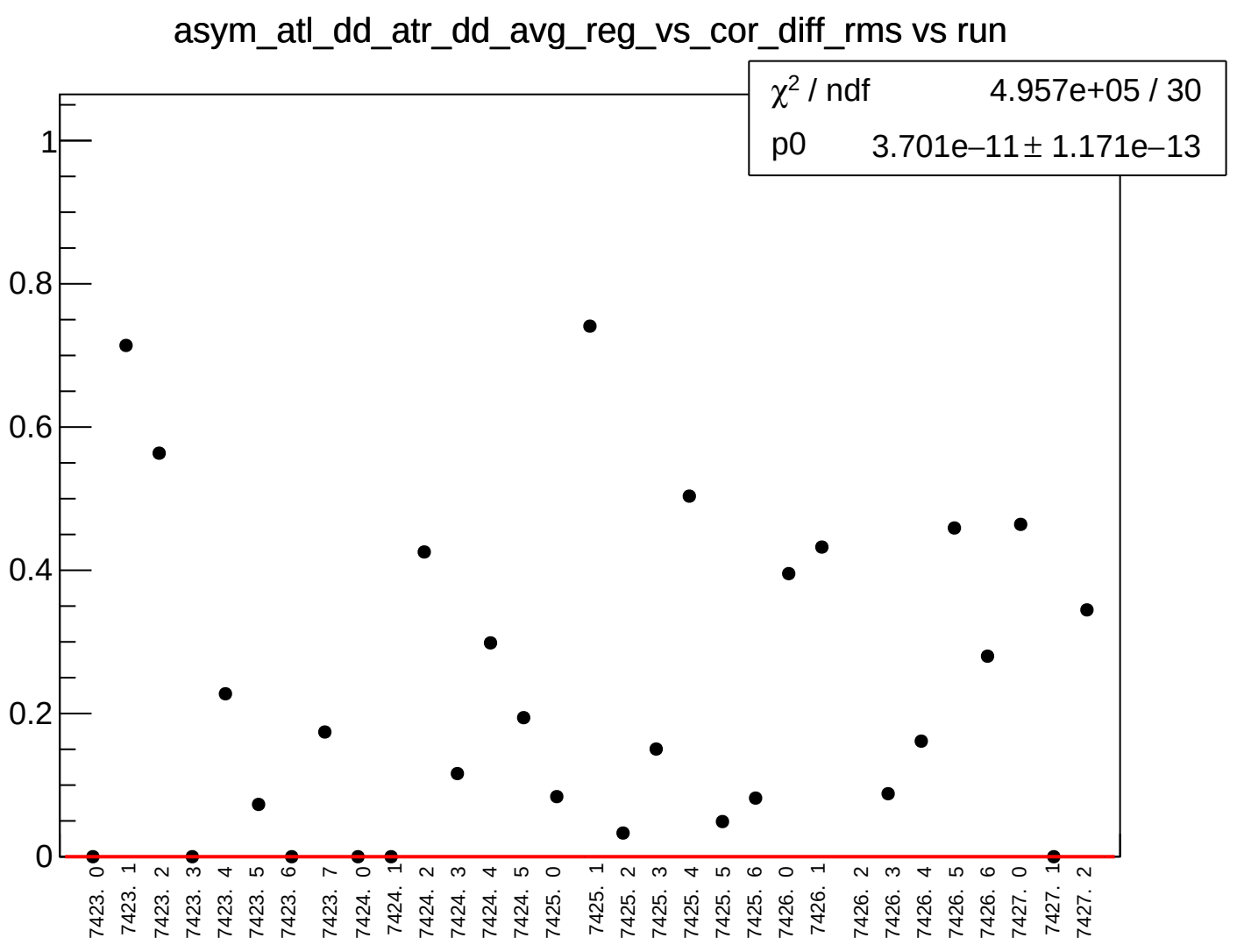

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2078 / 30
p0 4059 ± 5.269
4600
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

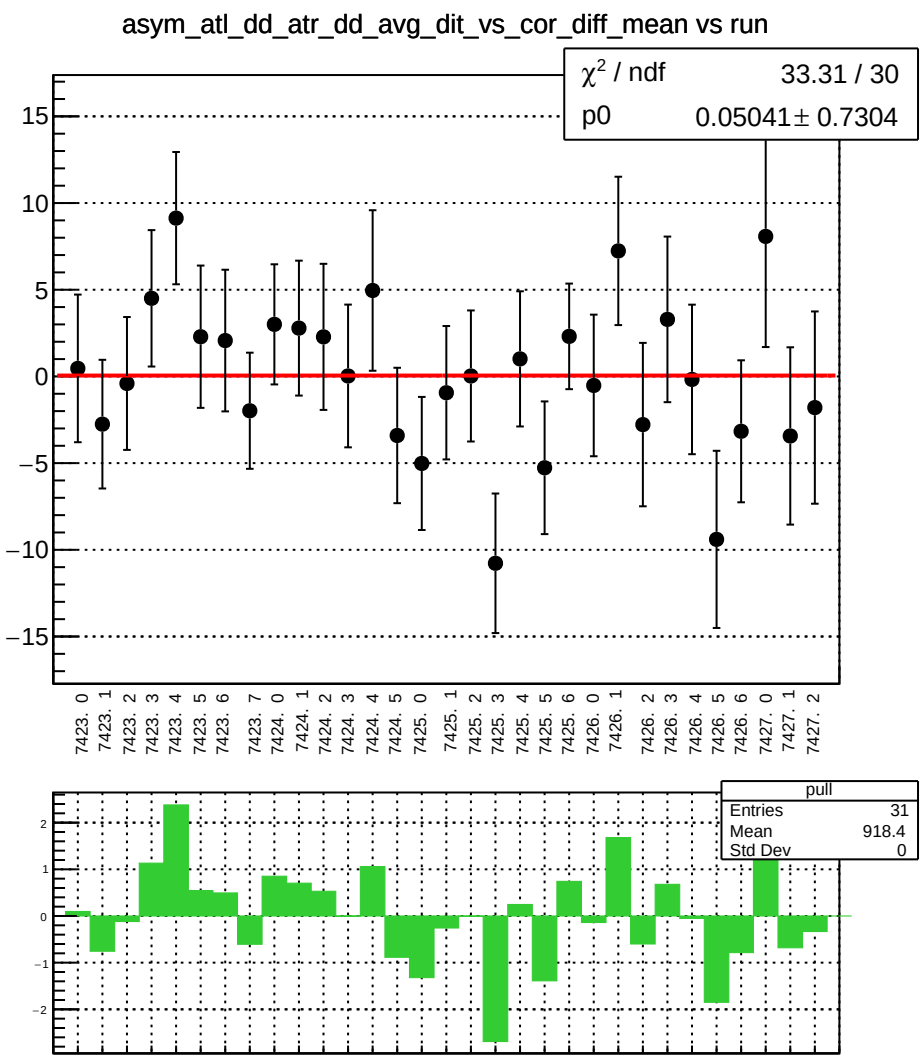

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 21.99 / 30
p0 2028 ± 7321
×10³
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 315.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

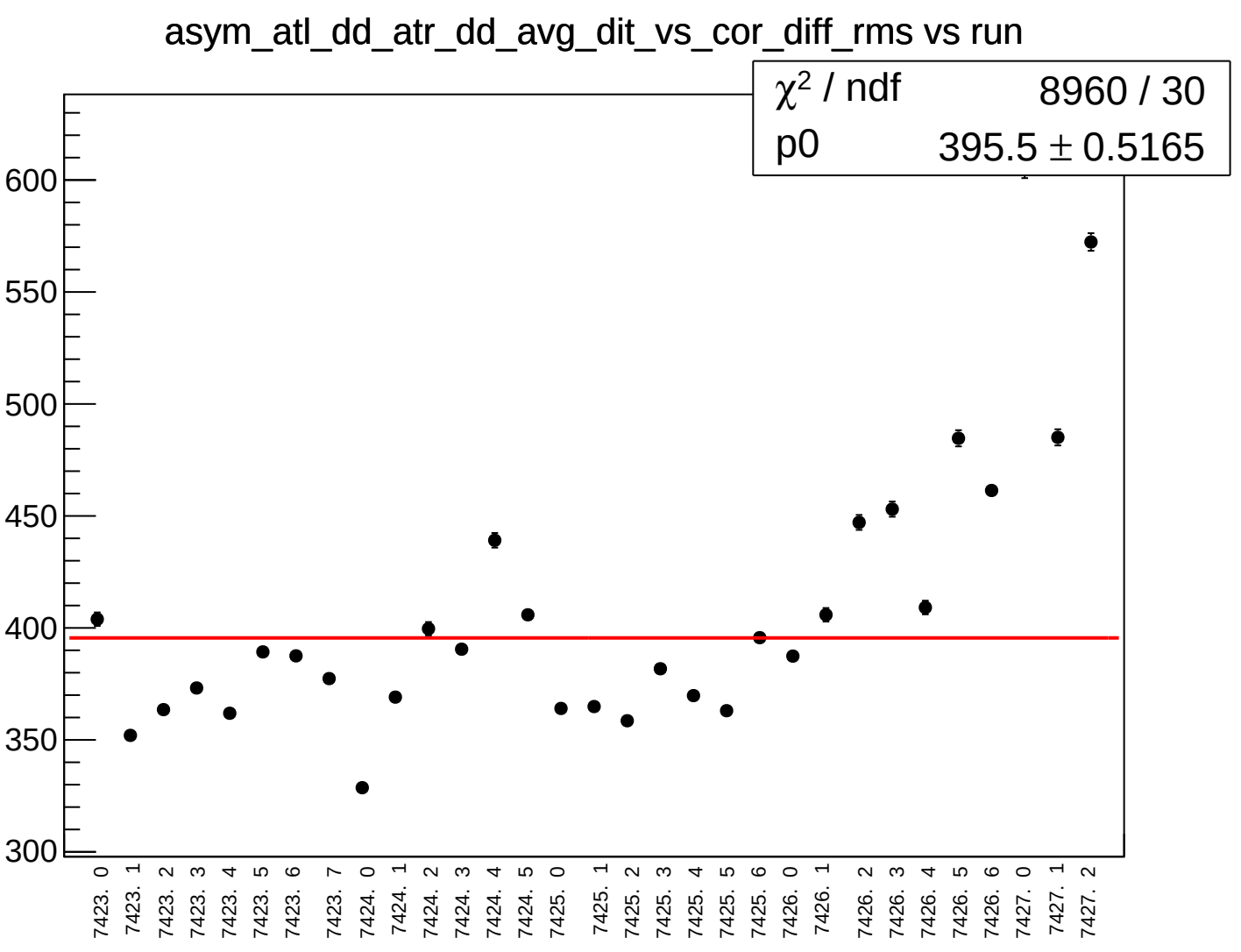

pull1D
Entries 31
Mean 0.007256
Std Dev 0.8422
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

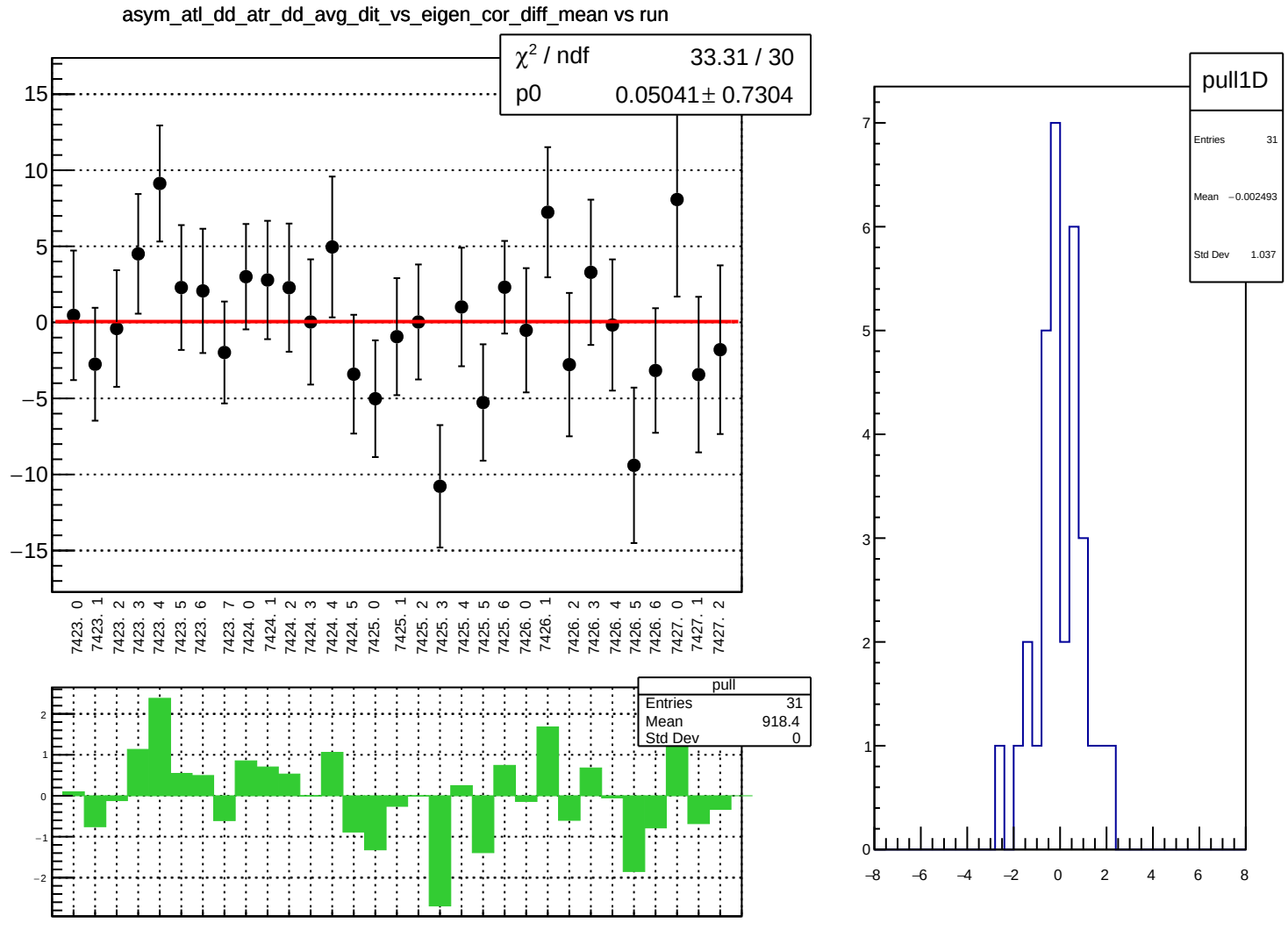

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1821 / 30
p0 3989 ± 5.177
4600
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

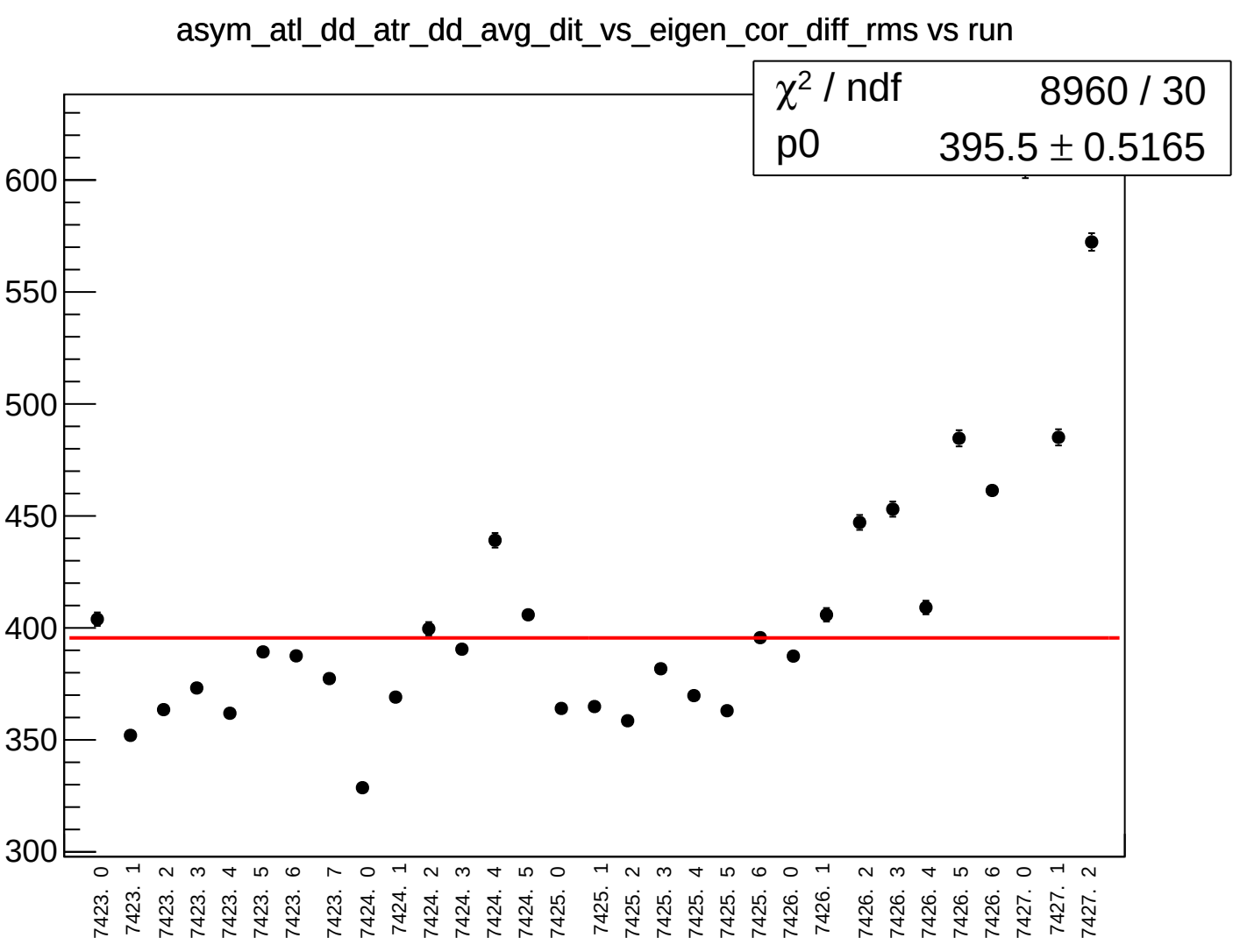

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.98 / 30
p0 −5.613e−14 ± 1.657e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.29
Std Dev 10.84
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.2369
Std Dev 1.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

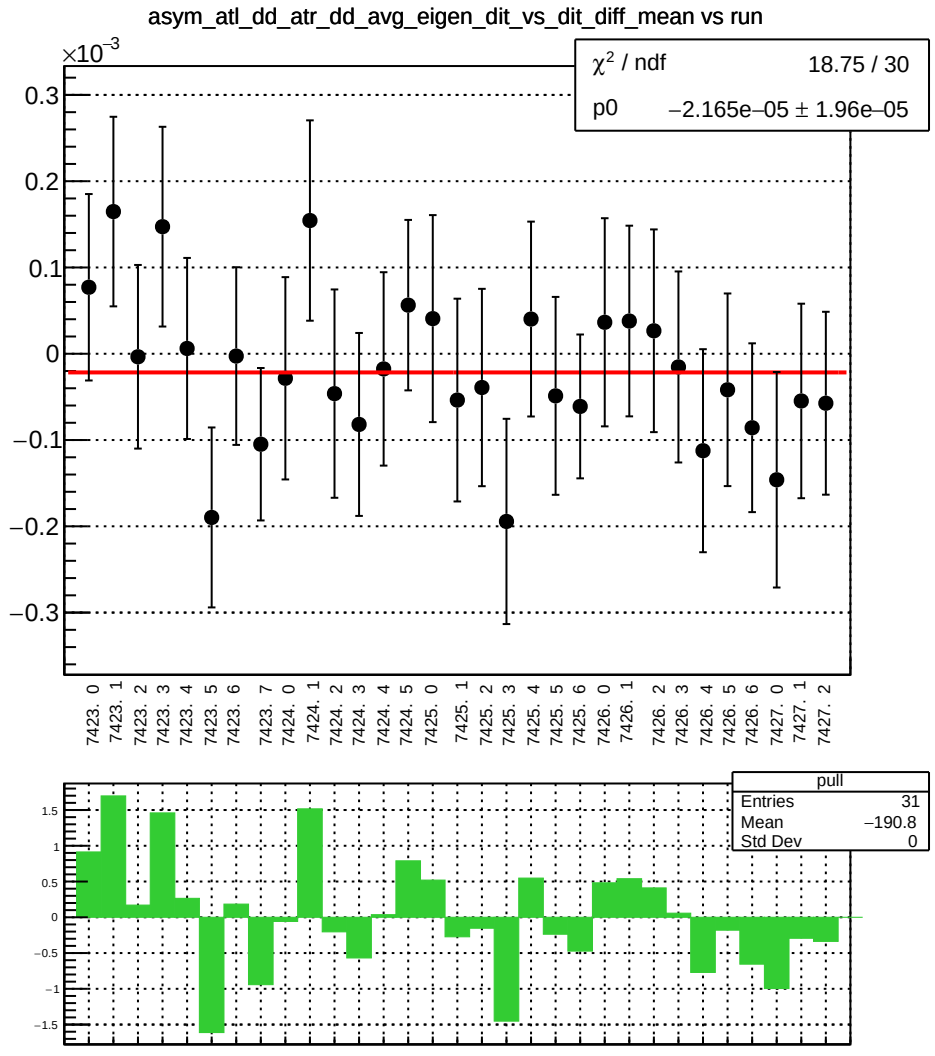

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.957e+05 / 30
p0 3.701e−11 ± 1.171e−13
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

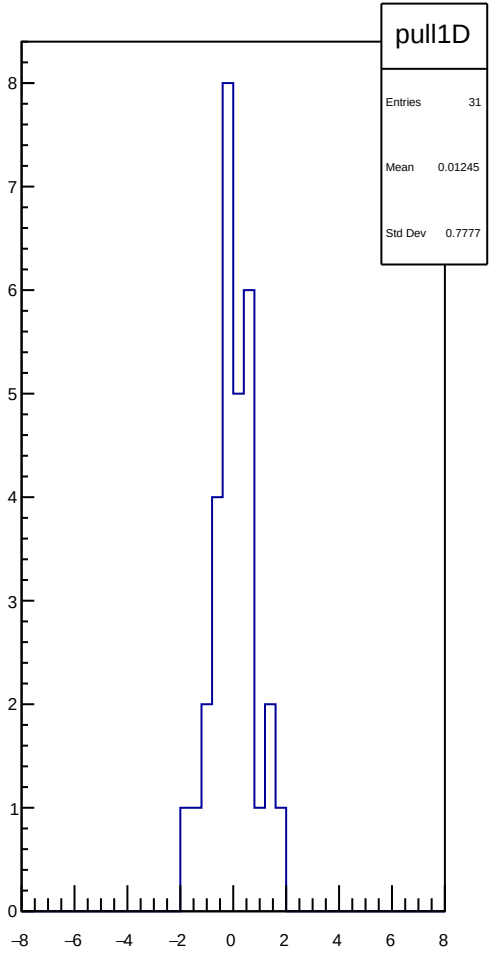

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05041 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002493
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

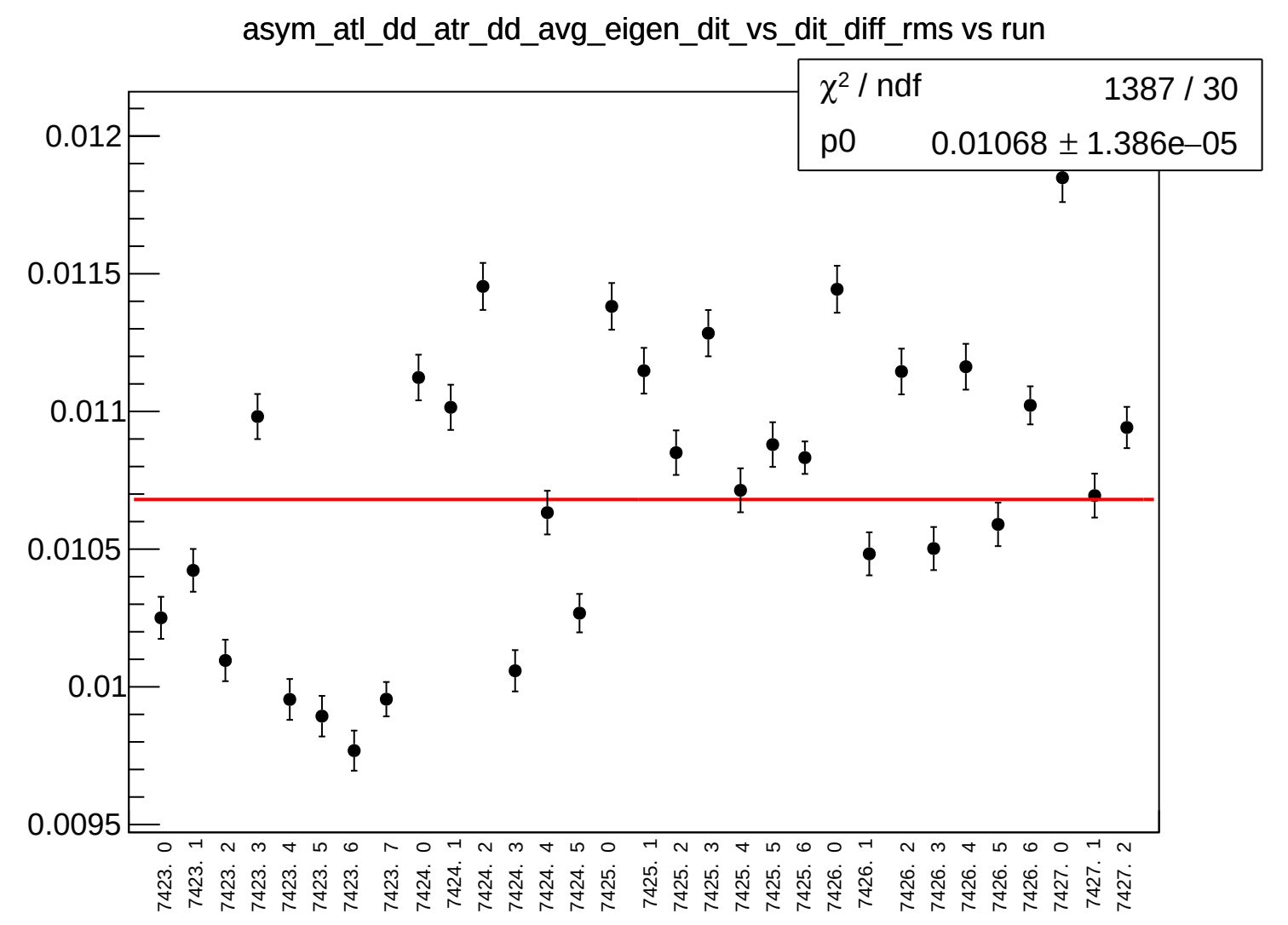

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

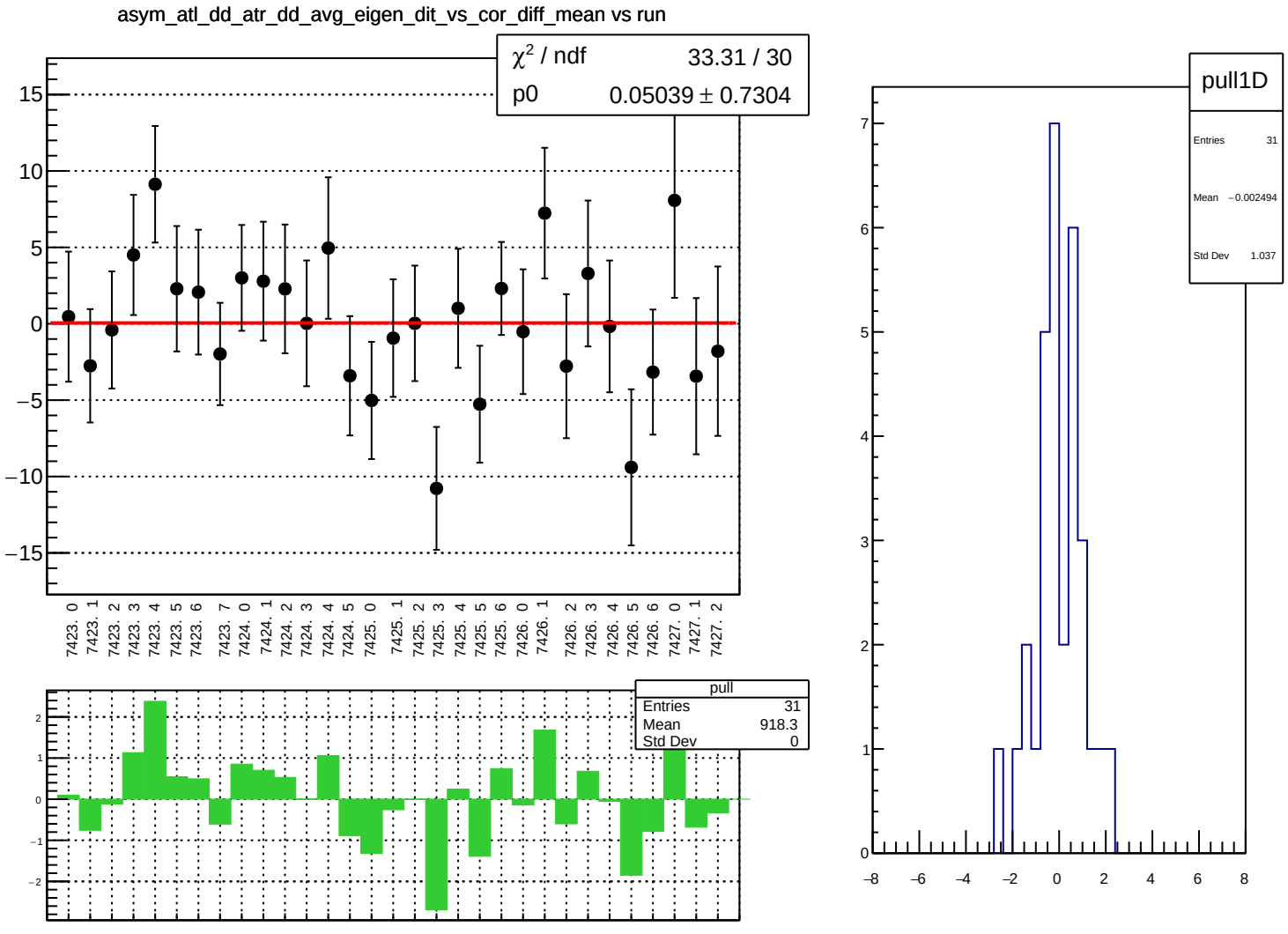

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05041 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002493
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

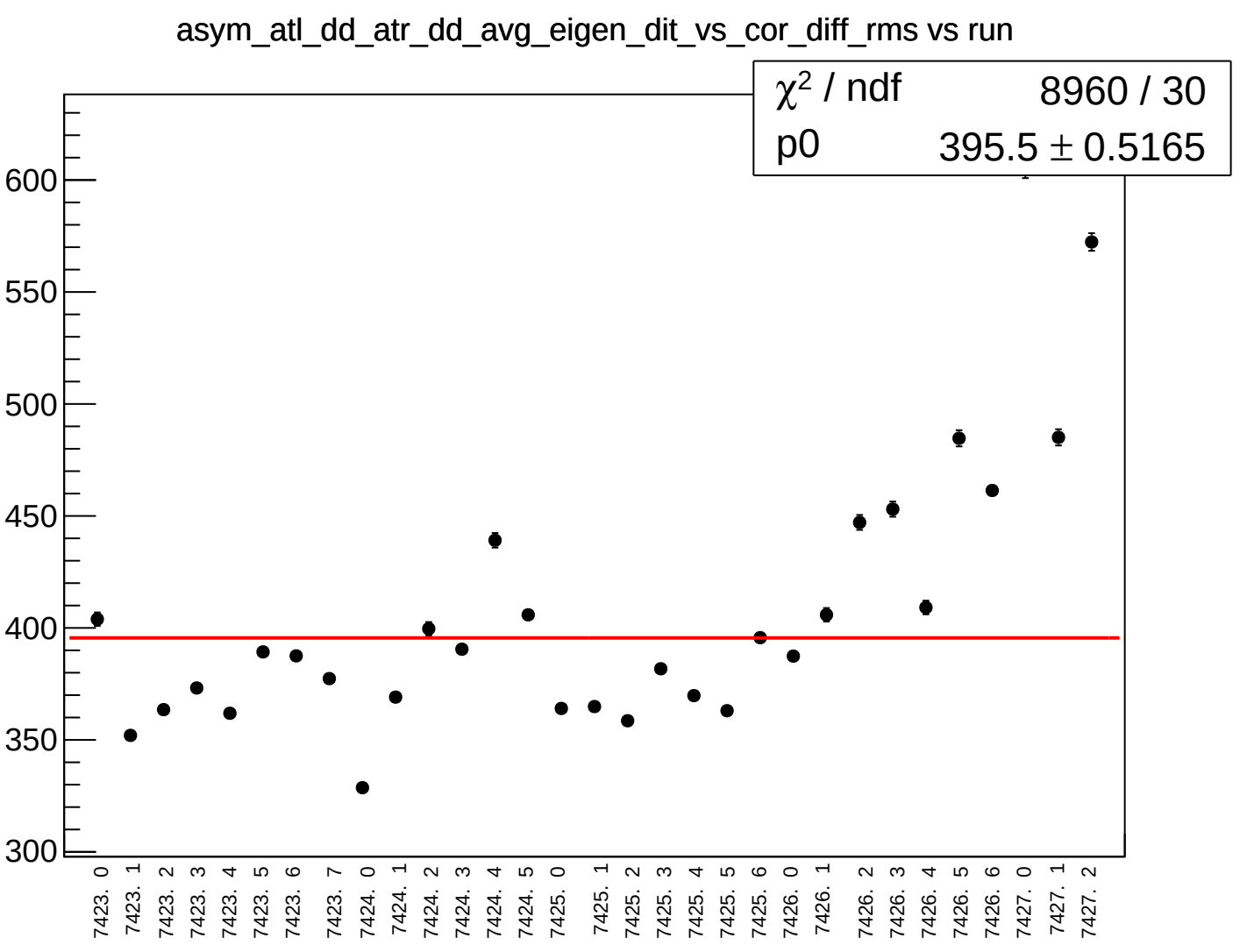

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

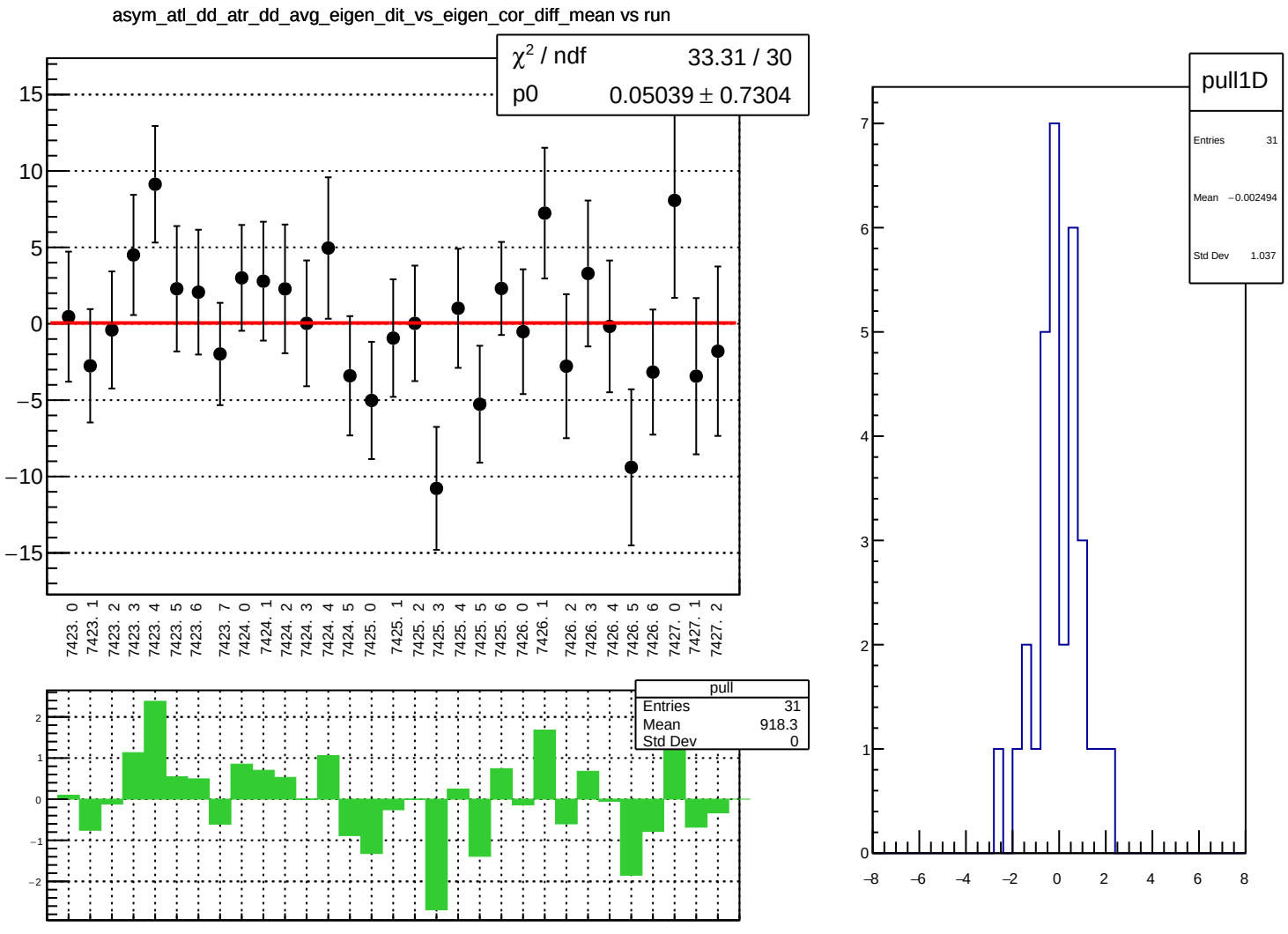

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.75 / 30
p0 −2.165e−05 ± 1.96e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −190.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

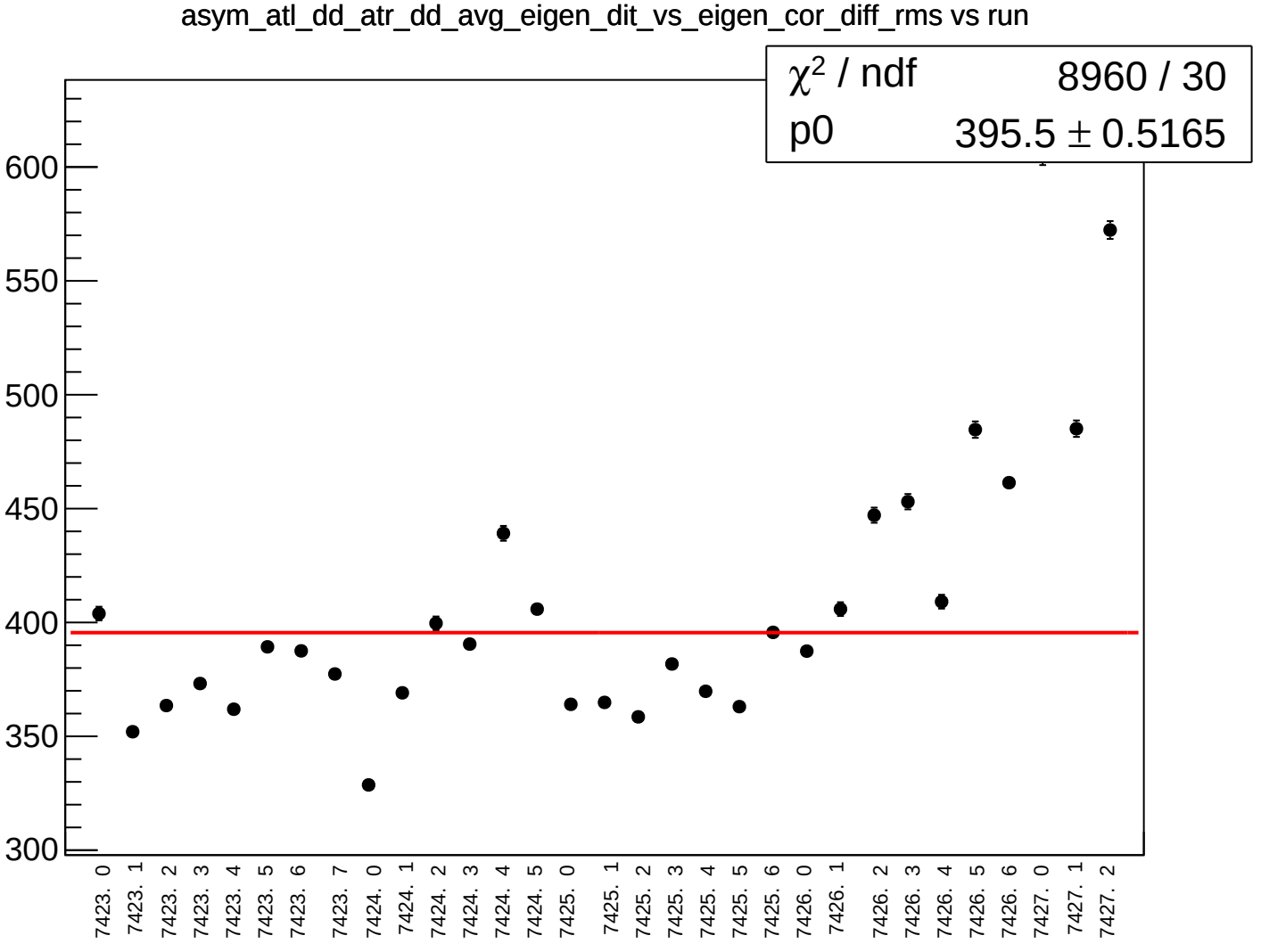

pull1D
Entries 31
Mean 0.01245
Std Dev 0.7777
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

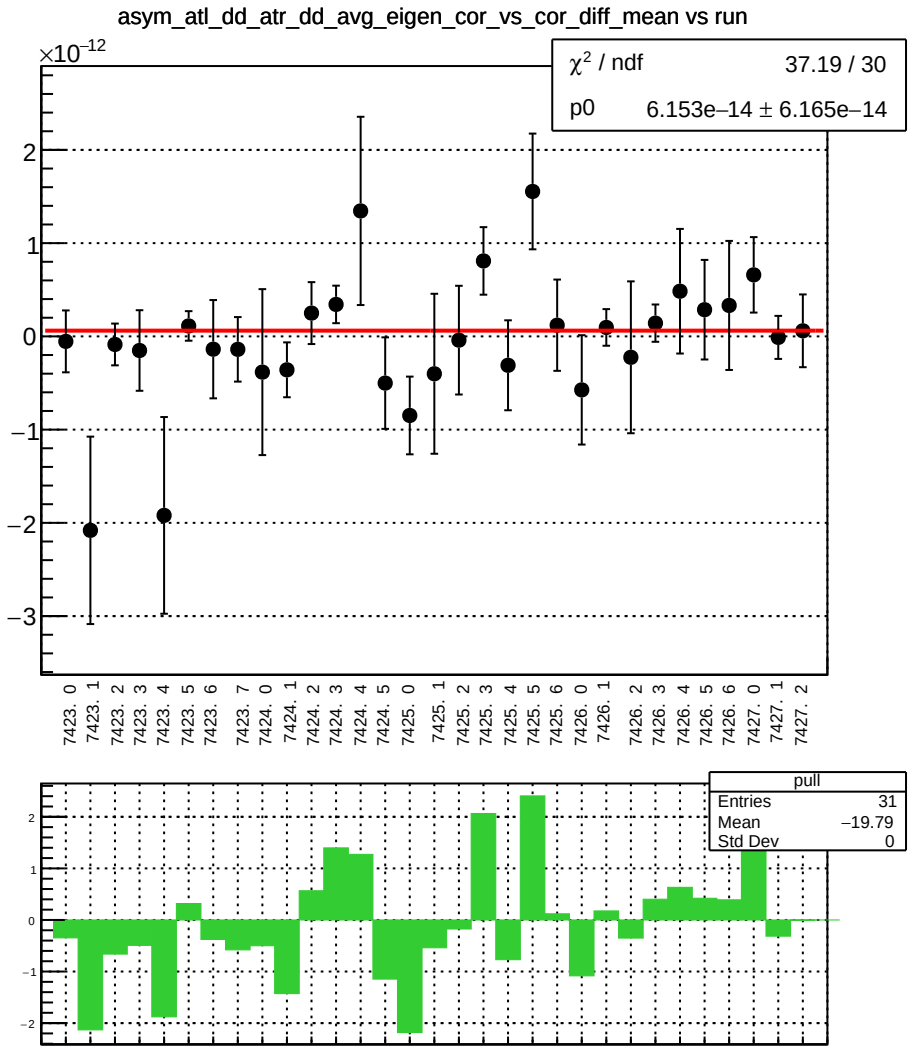

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1387 / 30
p0 0.01068 ± 1.386e−05
0.012
0.0115
0.011
0.0105
0.01
0.0095
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

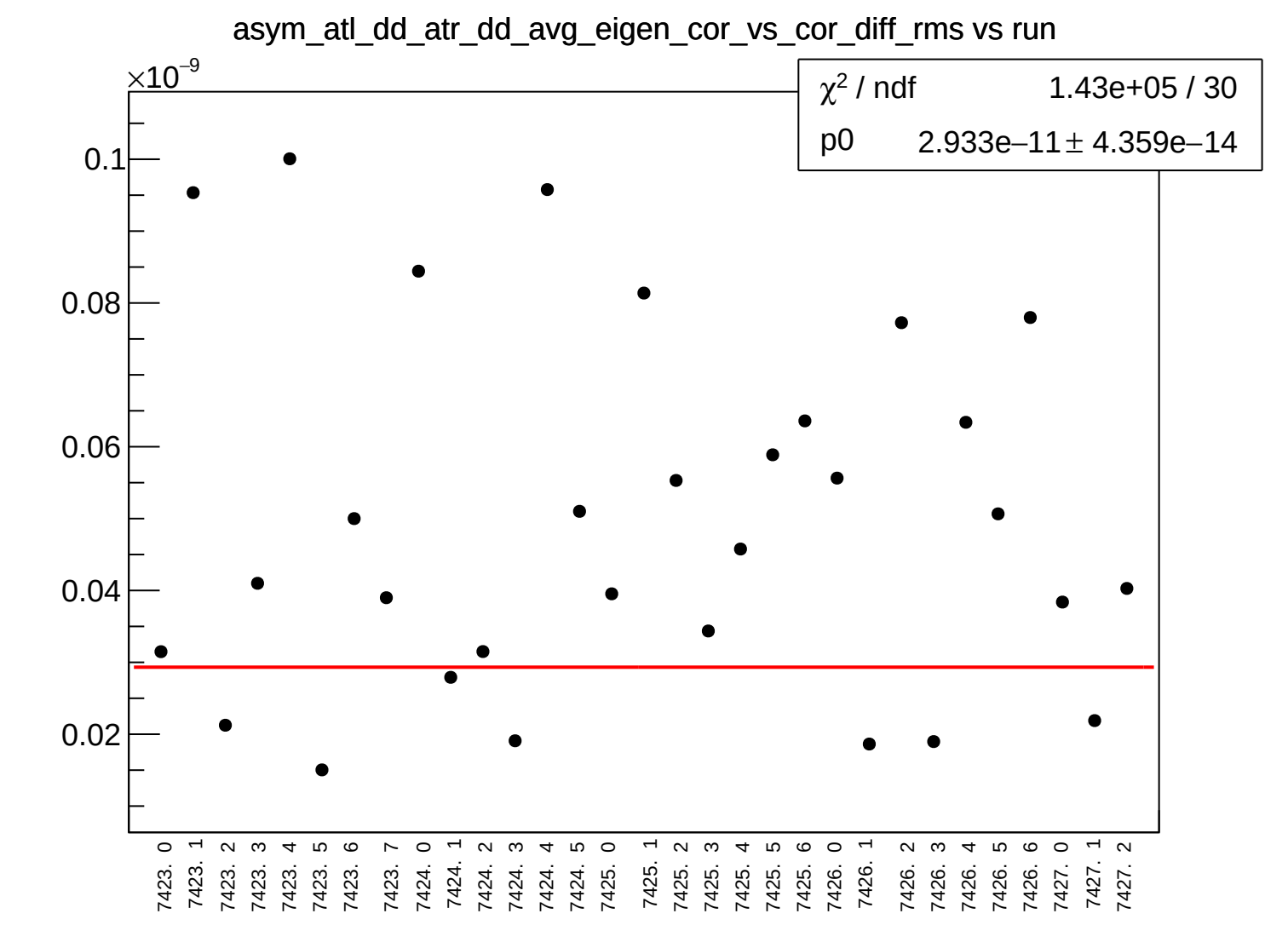

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05039 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002494
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

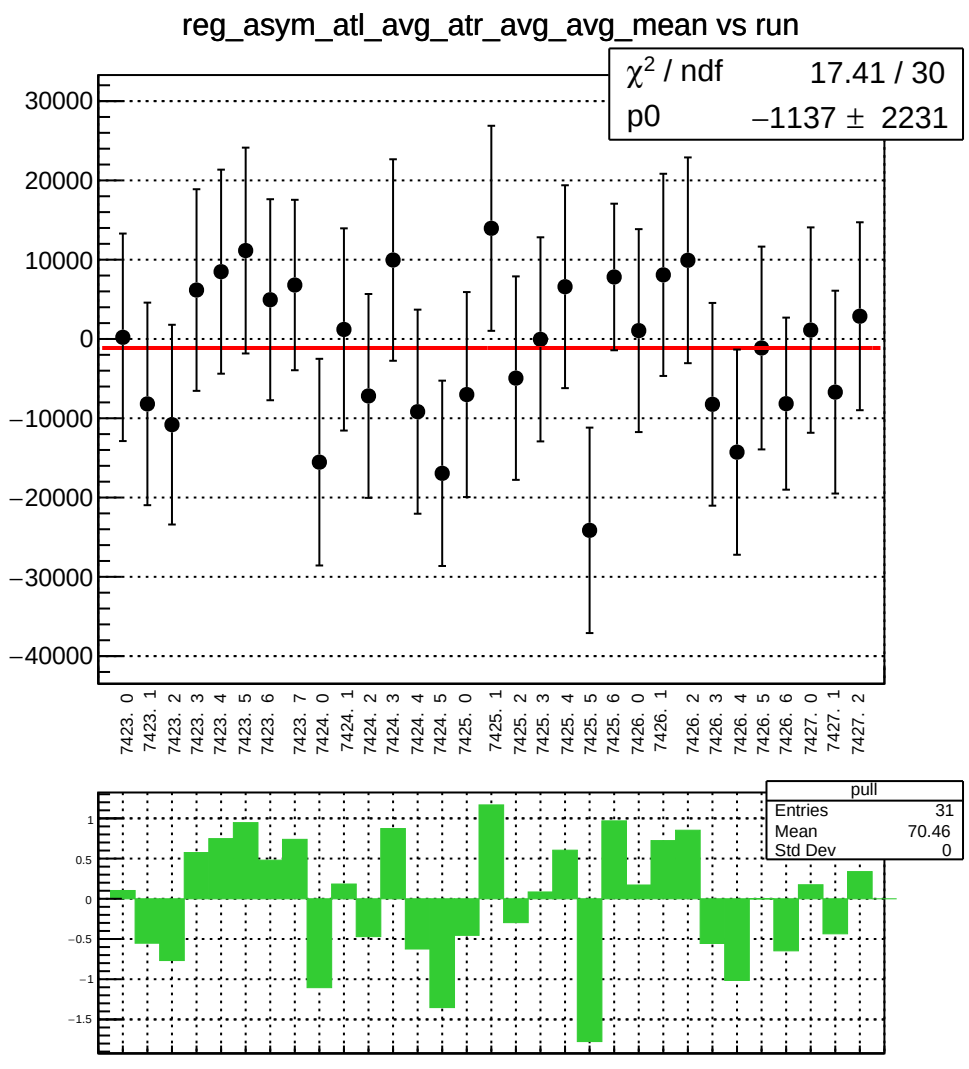

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

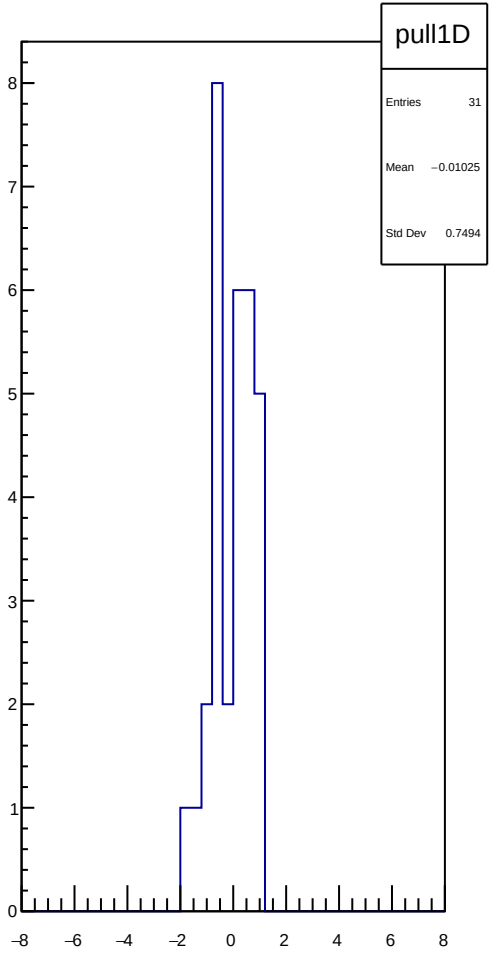

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05039 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002494
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

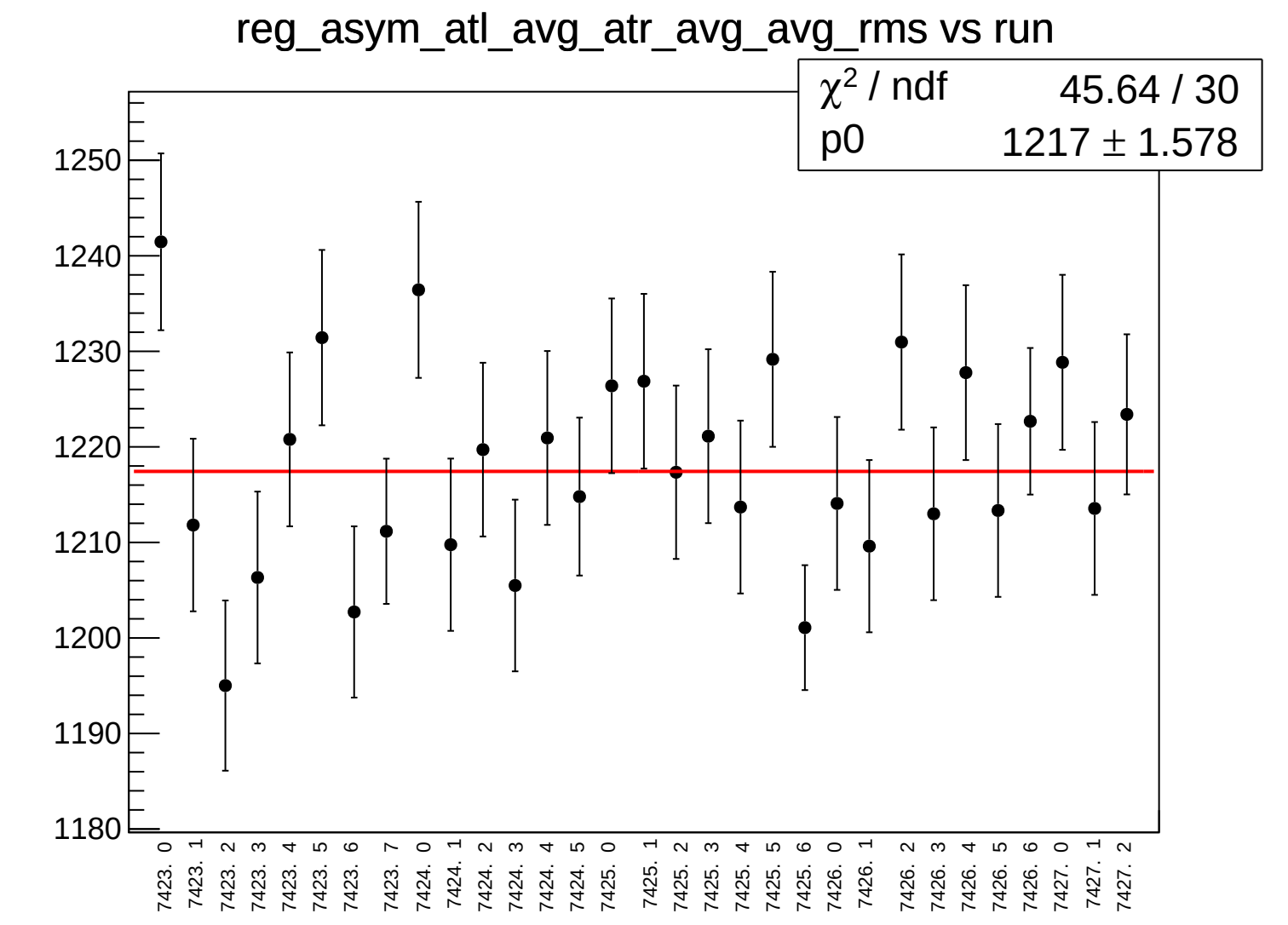

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

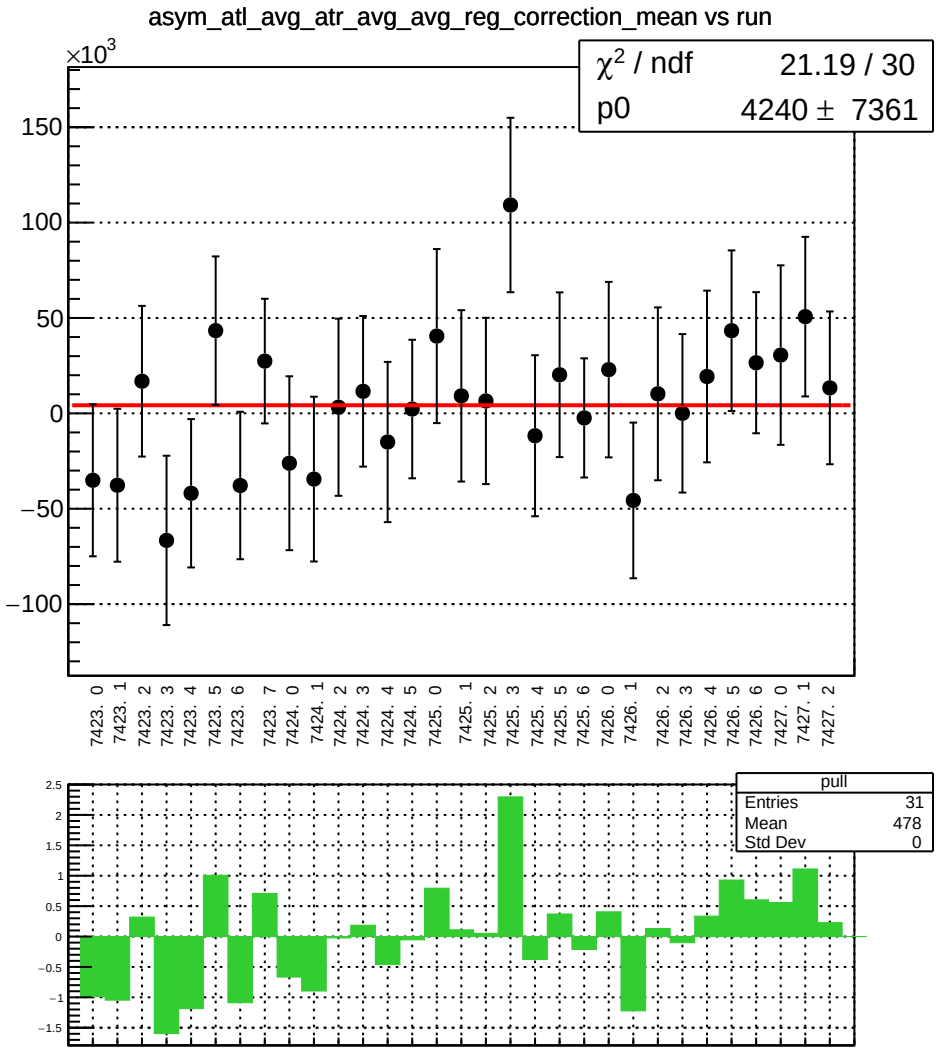

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.19 / 30
p0 6.153e−14 ± 6.165e−14
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −19.79
Std Dev 0
pull1D
Entries 31
Mean −0.1071
Std Dev 1.09
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

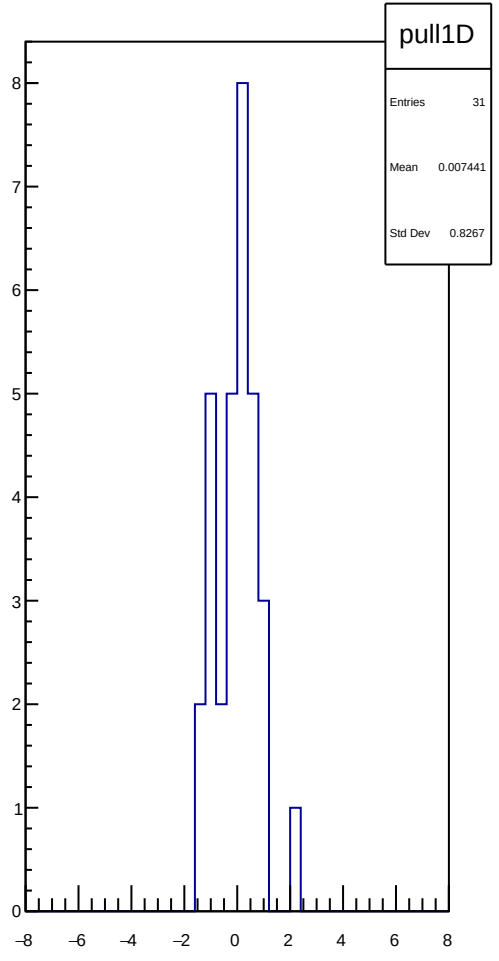

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.43e+05 / 30
p0 2.933e−11 ± 4.359e−14
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

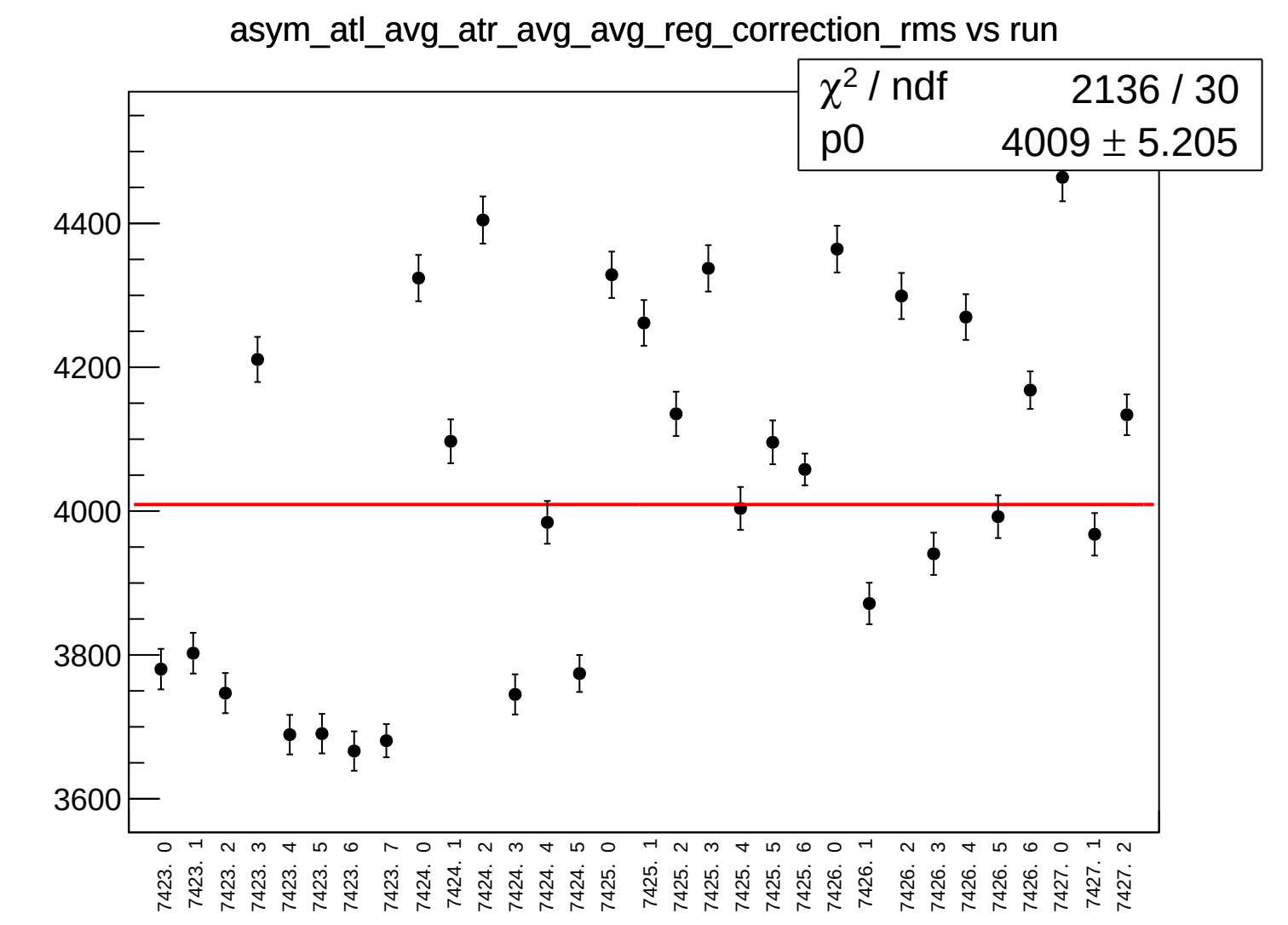

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 17.41 / 30
p0 −1137 ± 2231
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 70.46
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

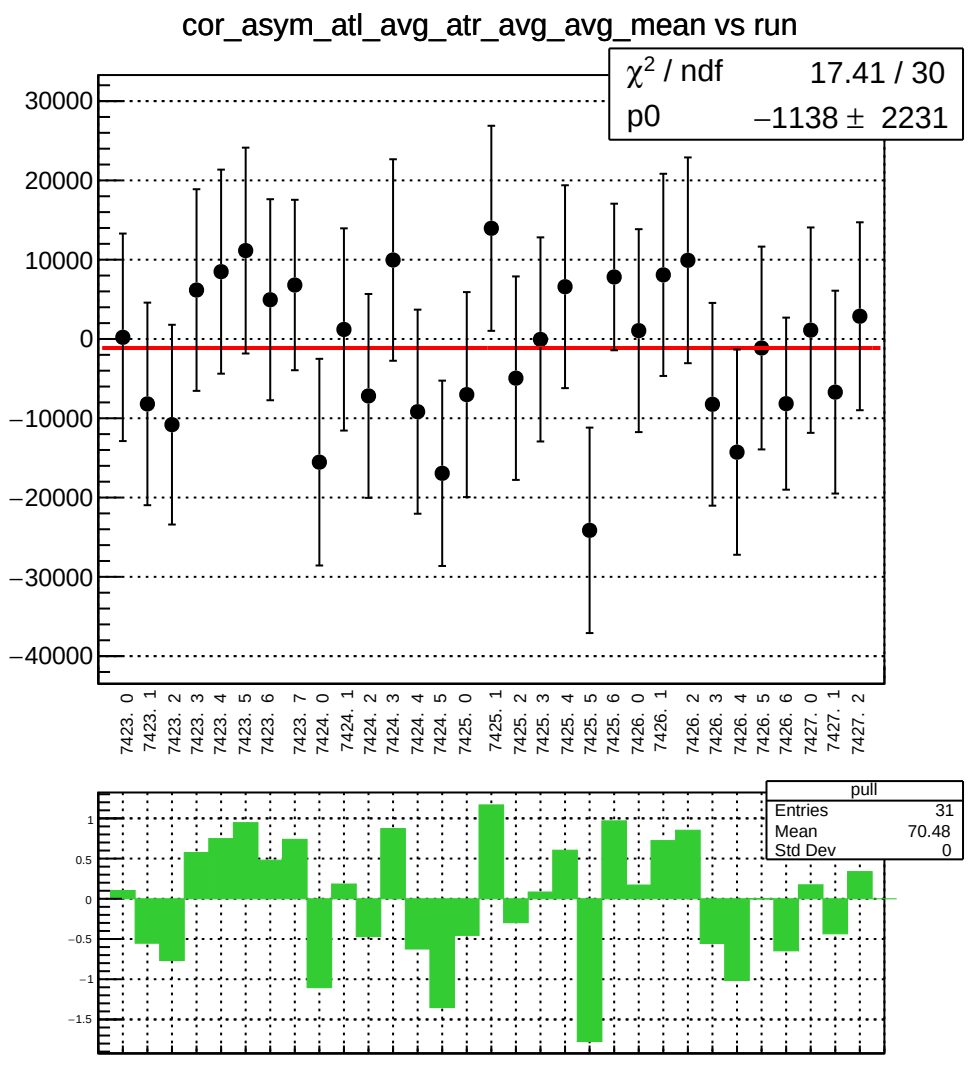

pull1D
Entries 31
Mean −0.01025
Std Dev 0.7494
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

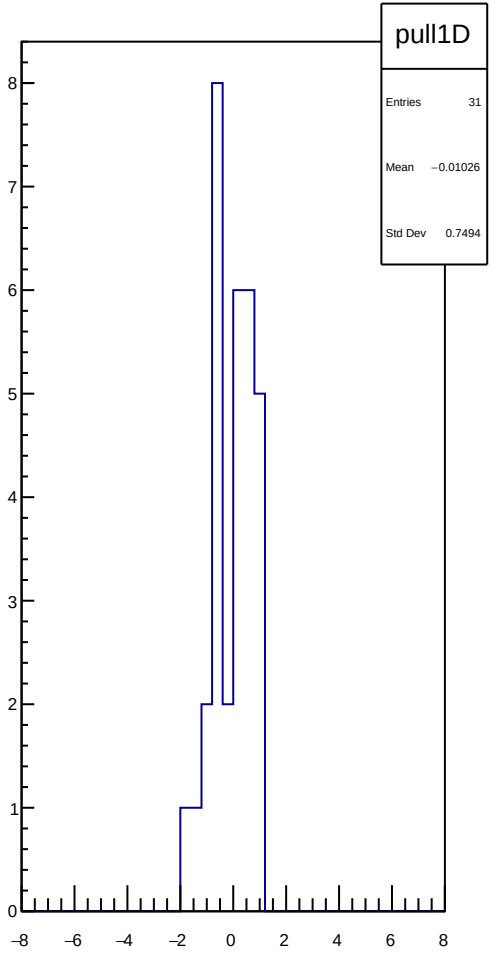

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 45.64 / 30
p0 1217 ± 1.578
1250
1240
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

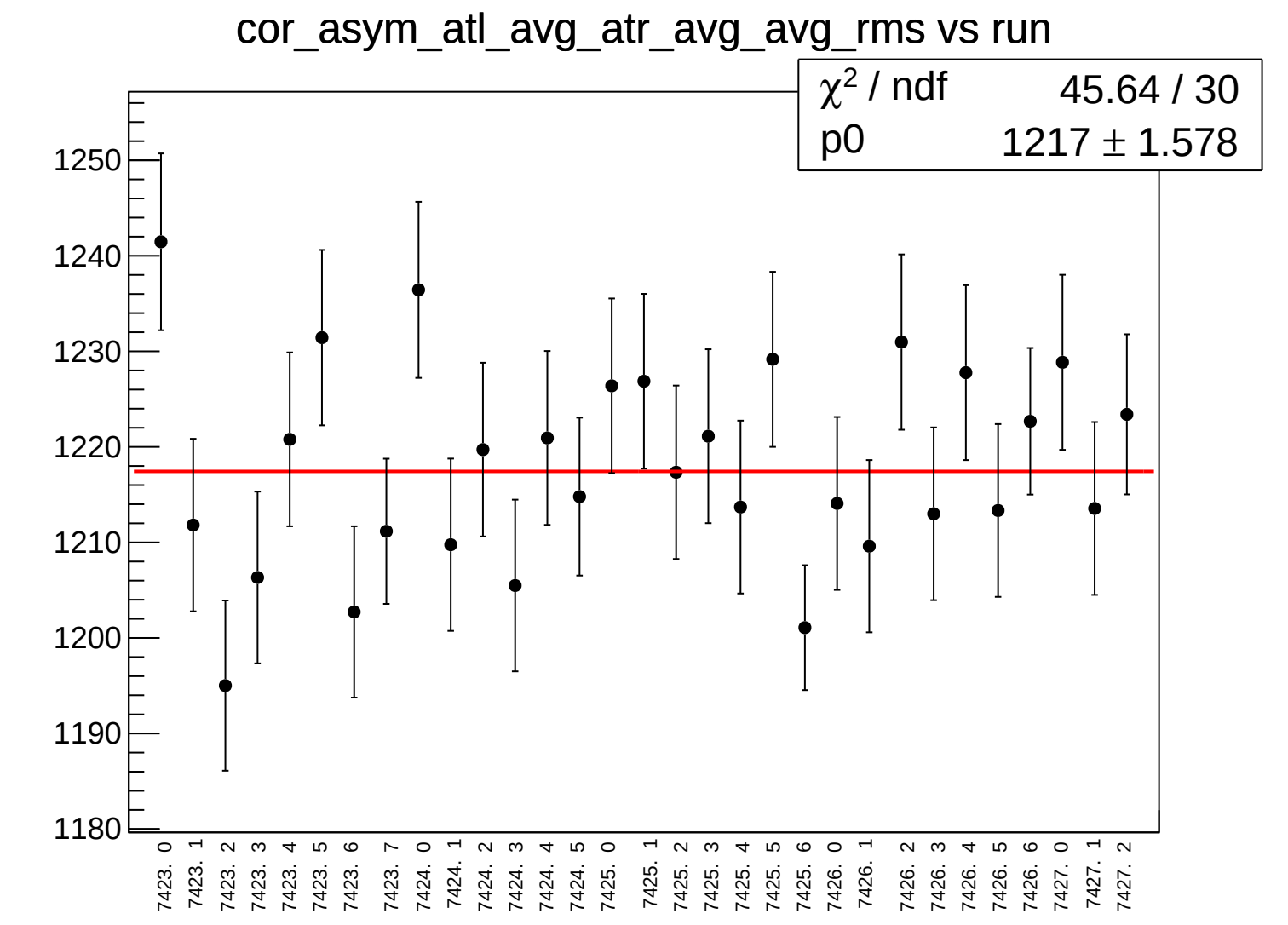

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 21.19 / 30
p0 4240 ± 7361
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 478
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

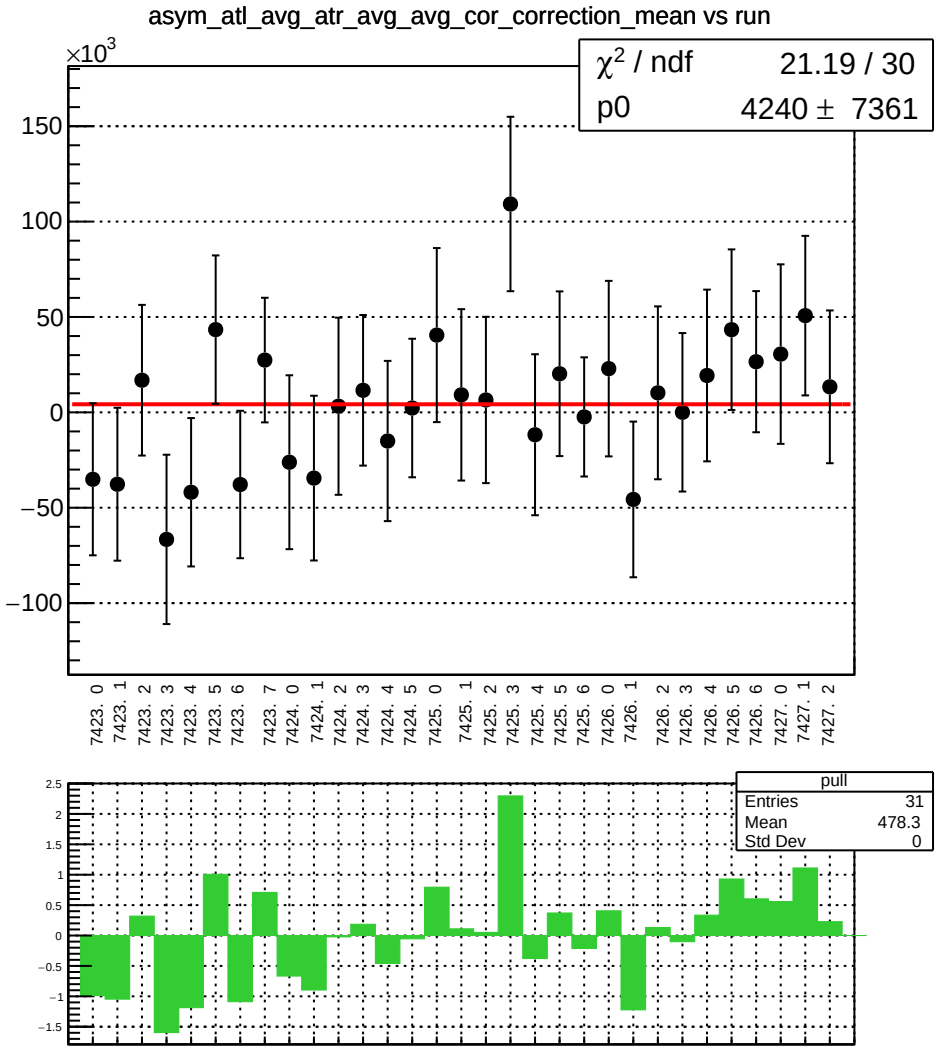

pull1D
Entries 31
Mean 0.007441
Std Dev 0.8267
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

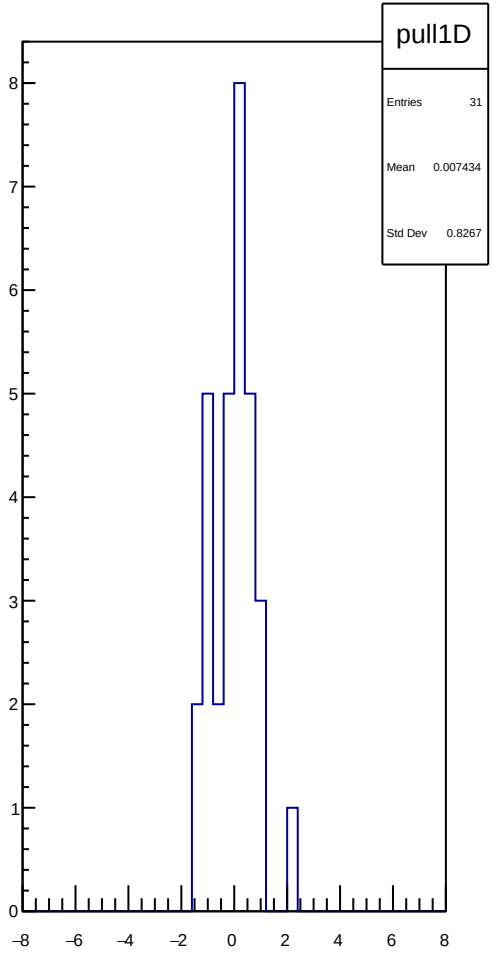

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 2136 / 30
p0 4009 ± 5.205
4400
4200
4000
3800
3600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

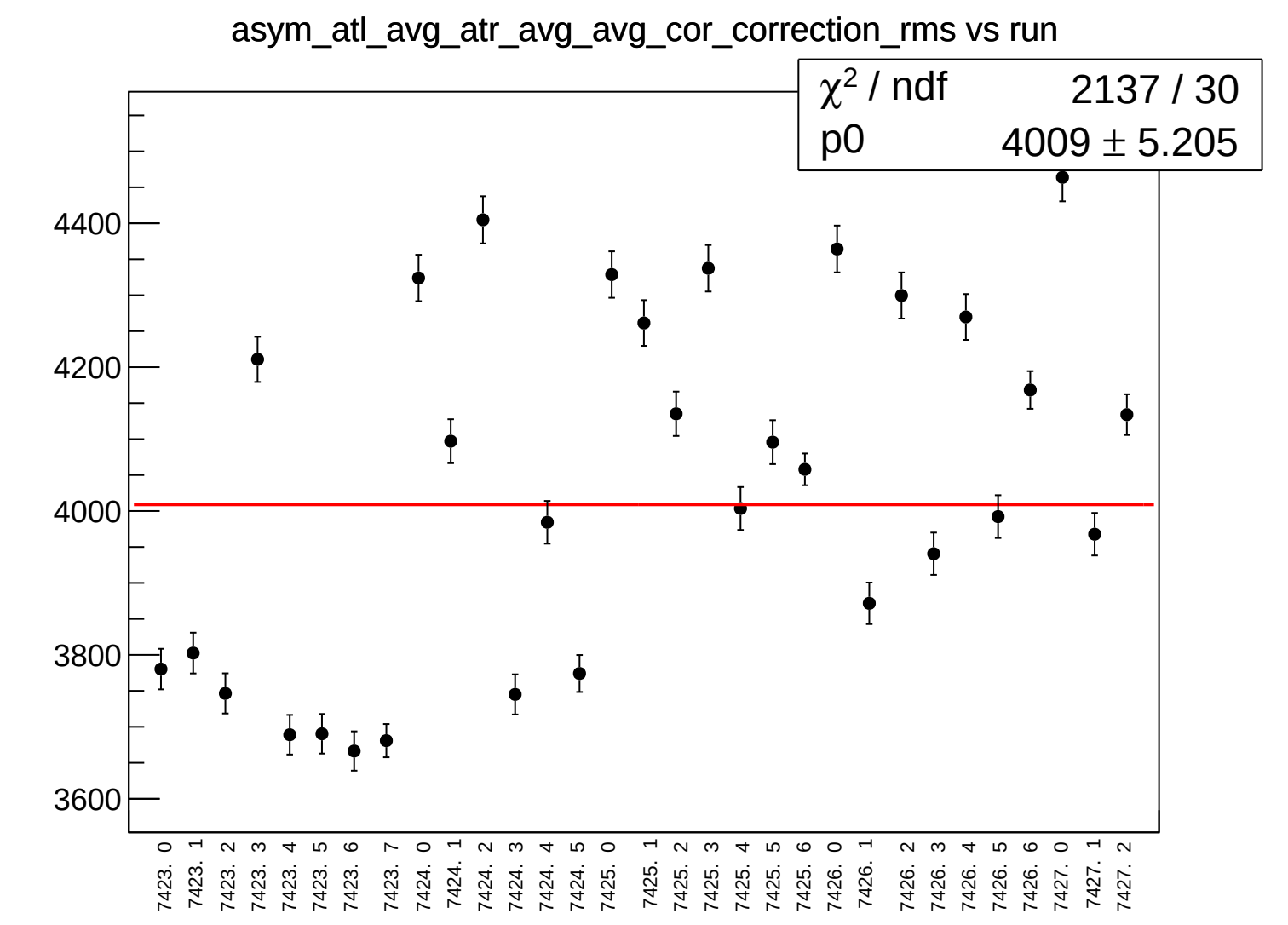

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 17.41 / 30
p0 −1138 ± 2231
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 70.48
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

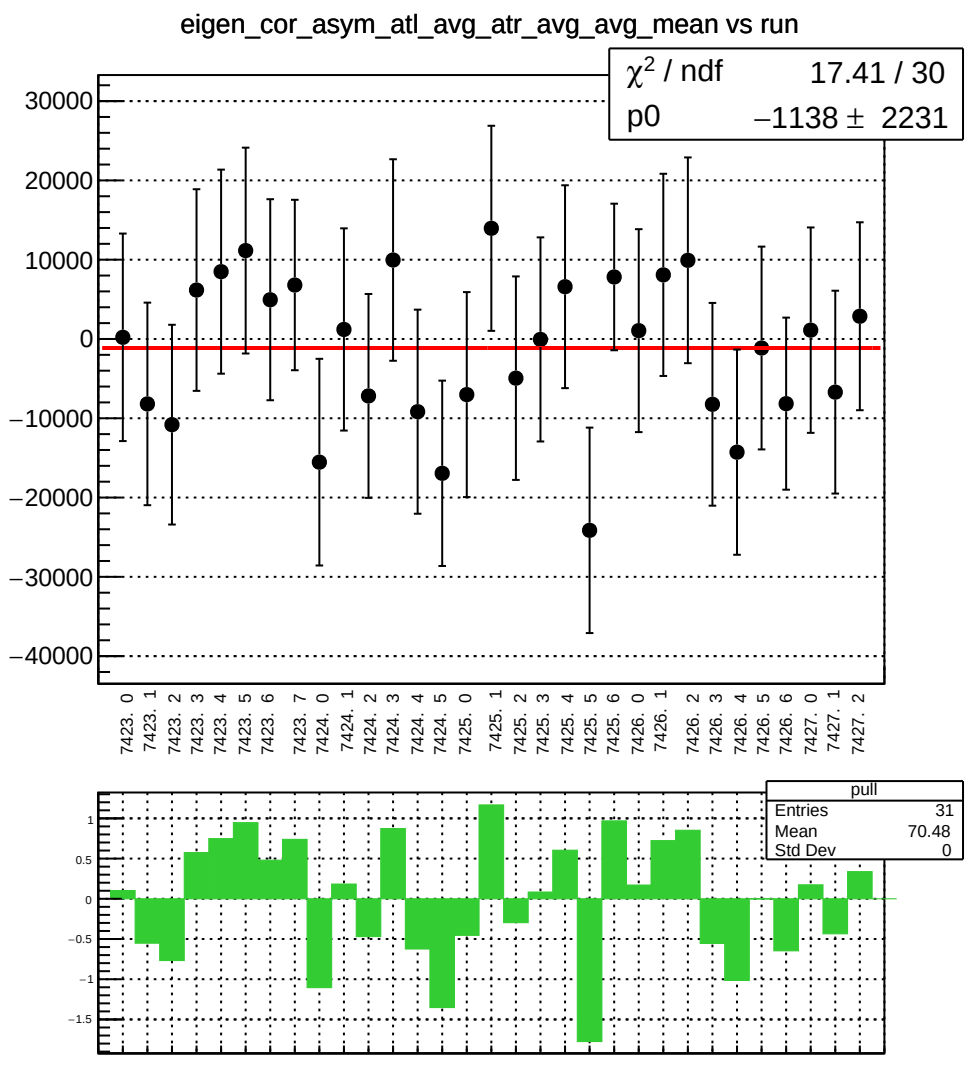

pull1D
Entries 31
Mean −0.01026
Std Dev 0.7494
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

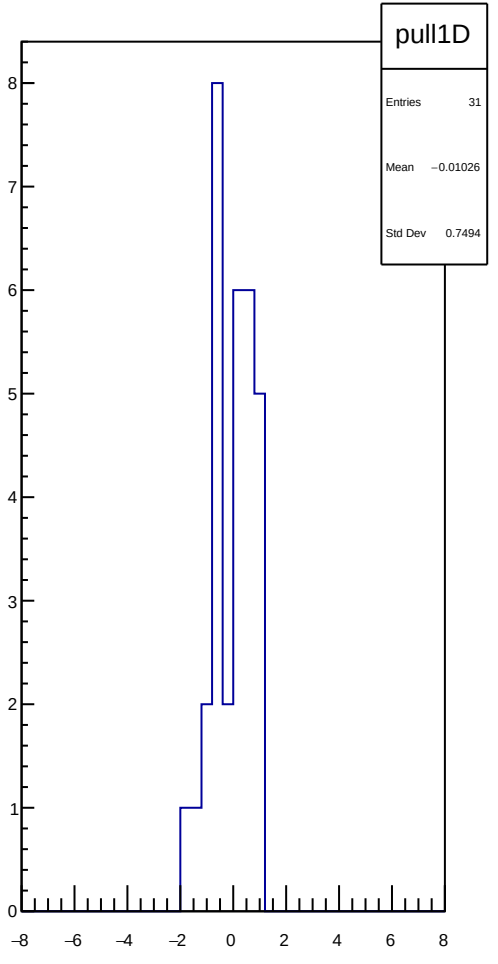

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 45.64 / 30
p0 1217 ± 1.578
1250
1240
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

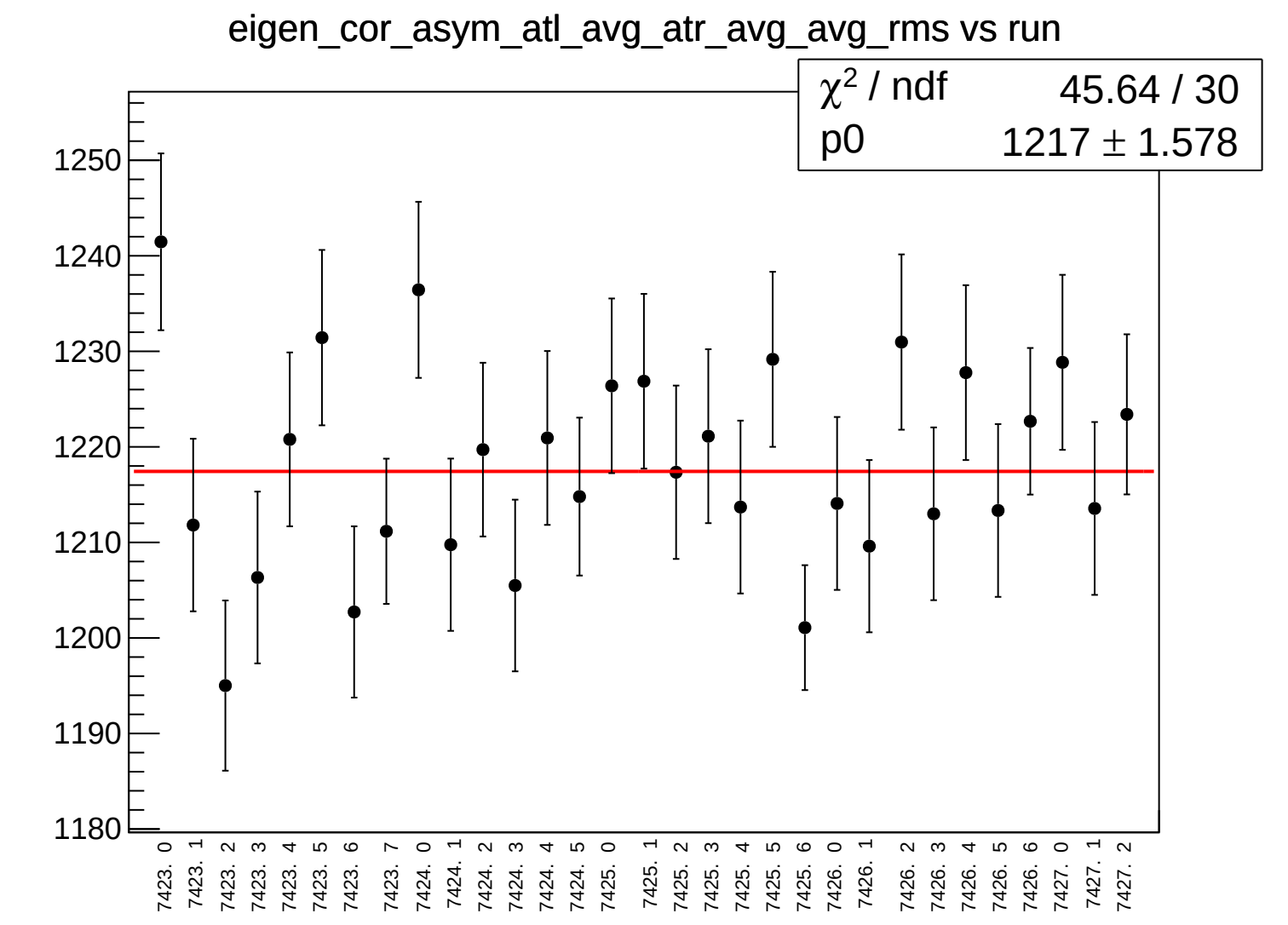

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 21.19 / 30
p0 4240 ± 7361
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 478.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

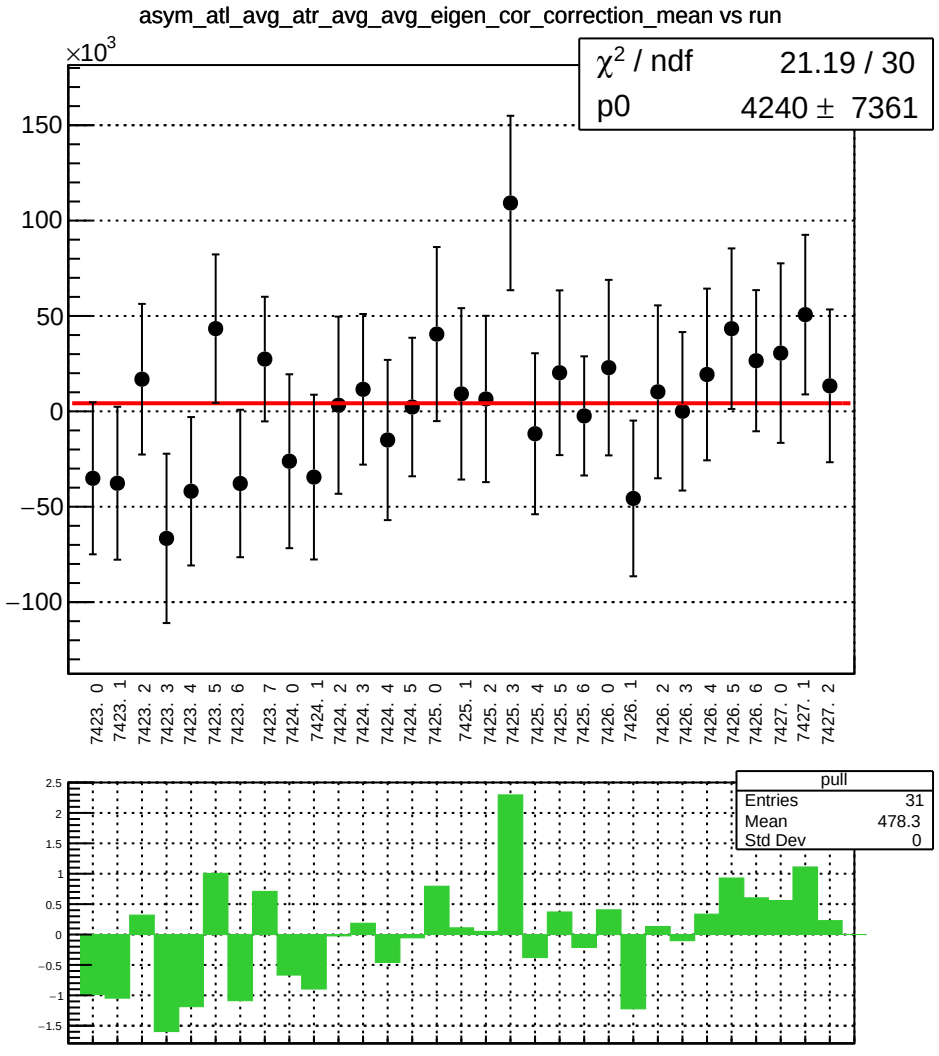

pull1D
Entries 31
Mean 0.007434
Std Dev 0.8267
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

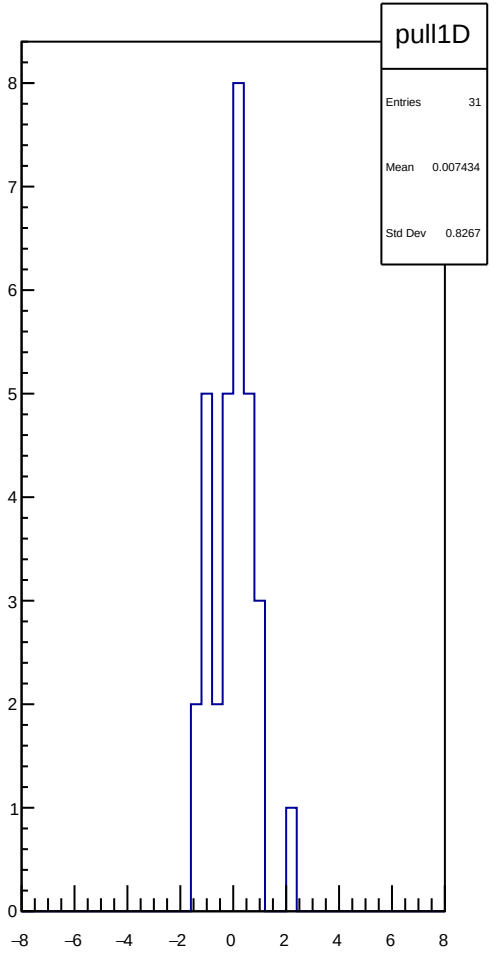

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 2137 / 30
p0 4009 ± 5.205
4400
4200
4000
3800
3600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

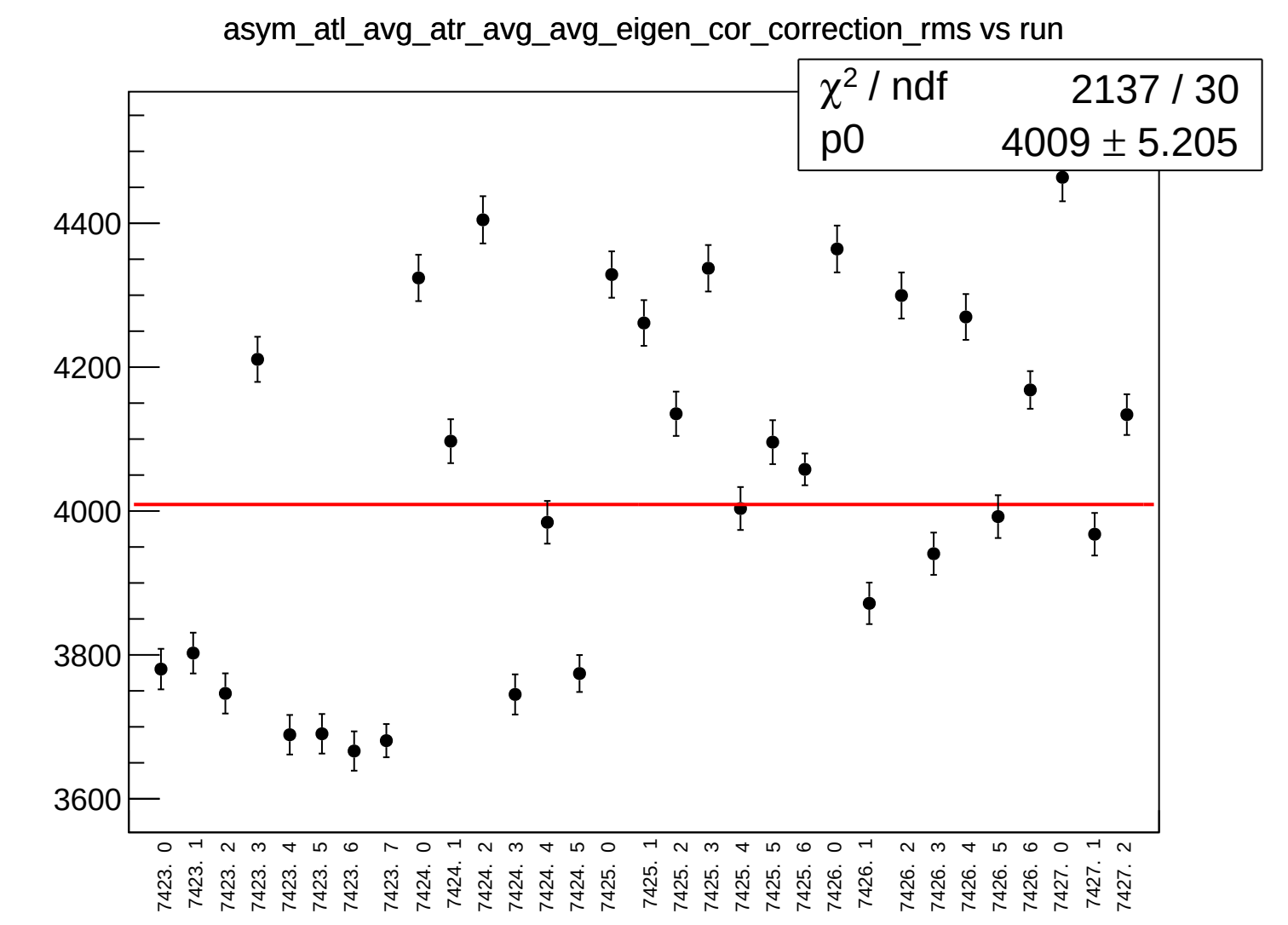

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 17.41 / 30
p0 −1138 ± 2231
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 70.48
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

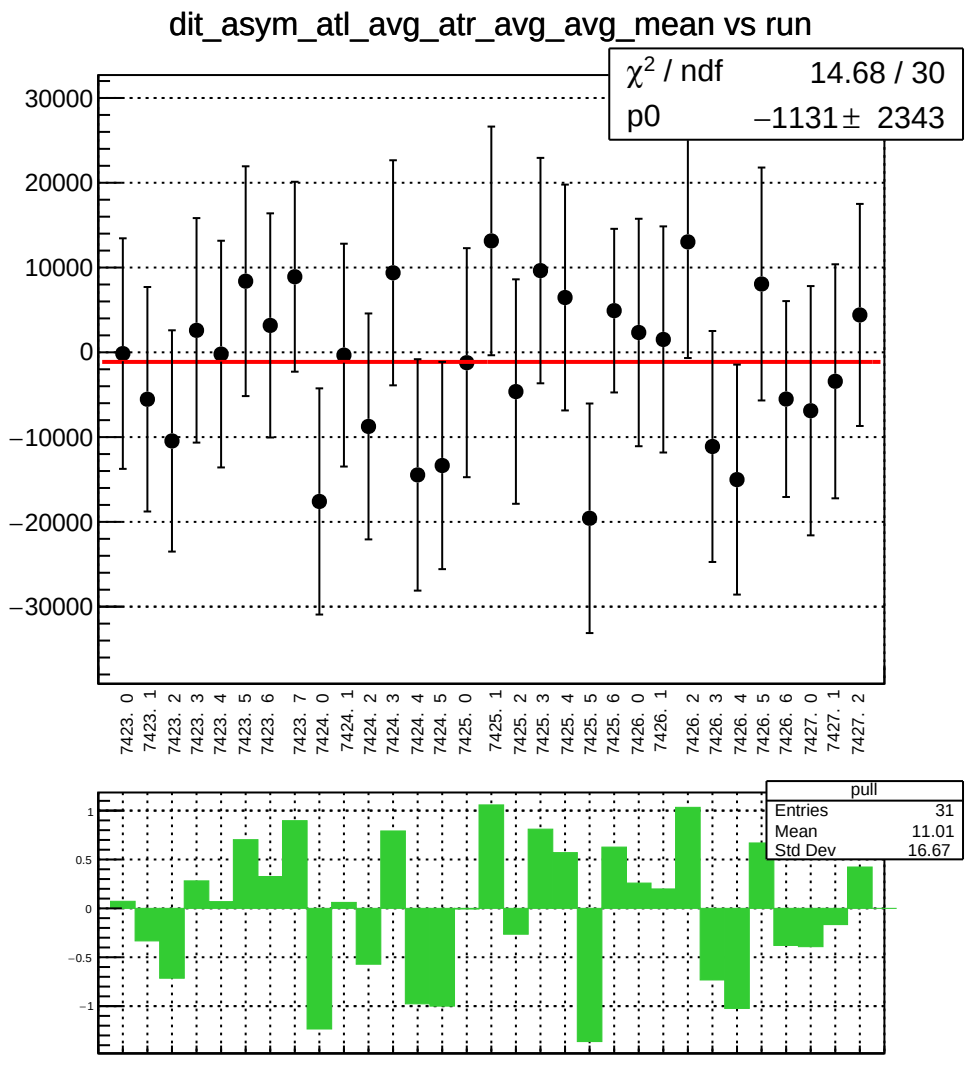

pull1D
Entries 31
Mean −0.01026
Std Dev 0.7494
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

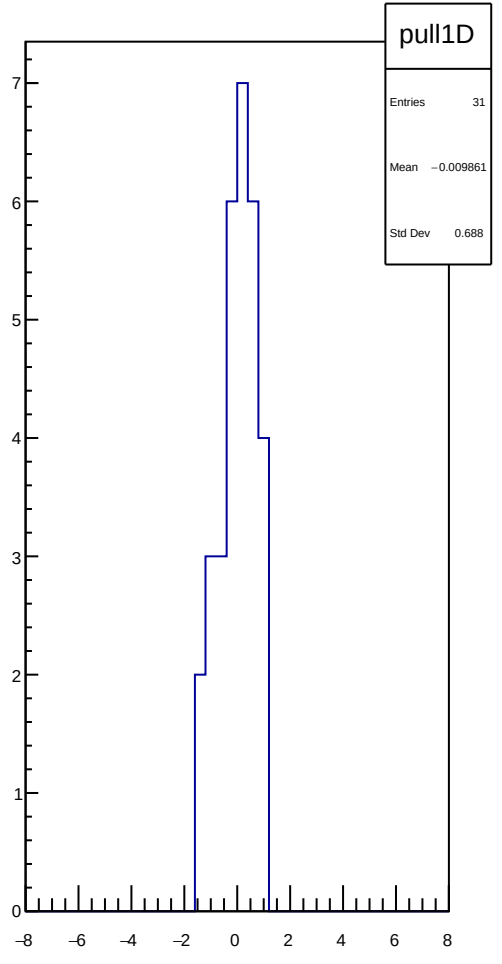

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 45.64 / 30
p0 1217 ± 1.578
1250
1240
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

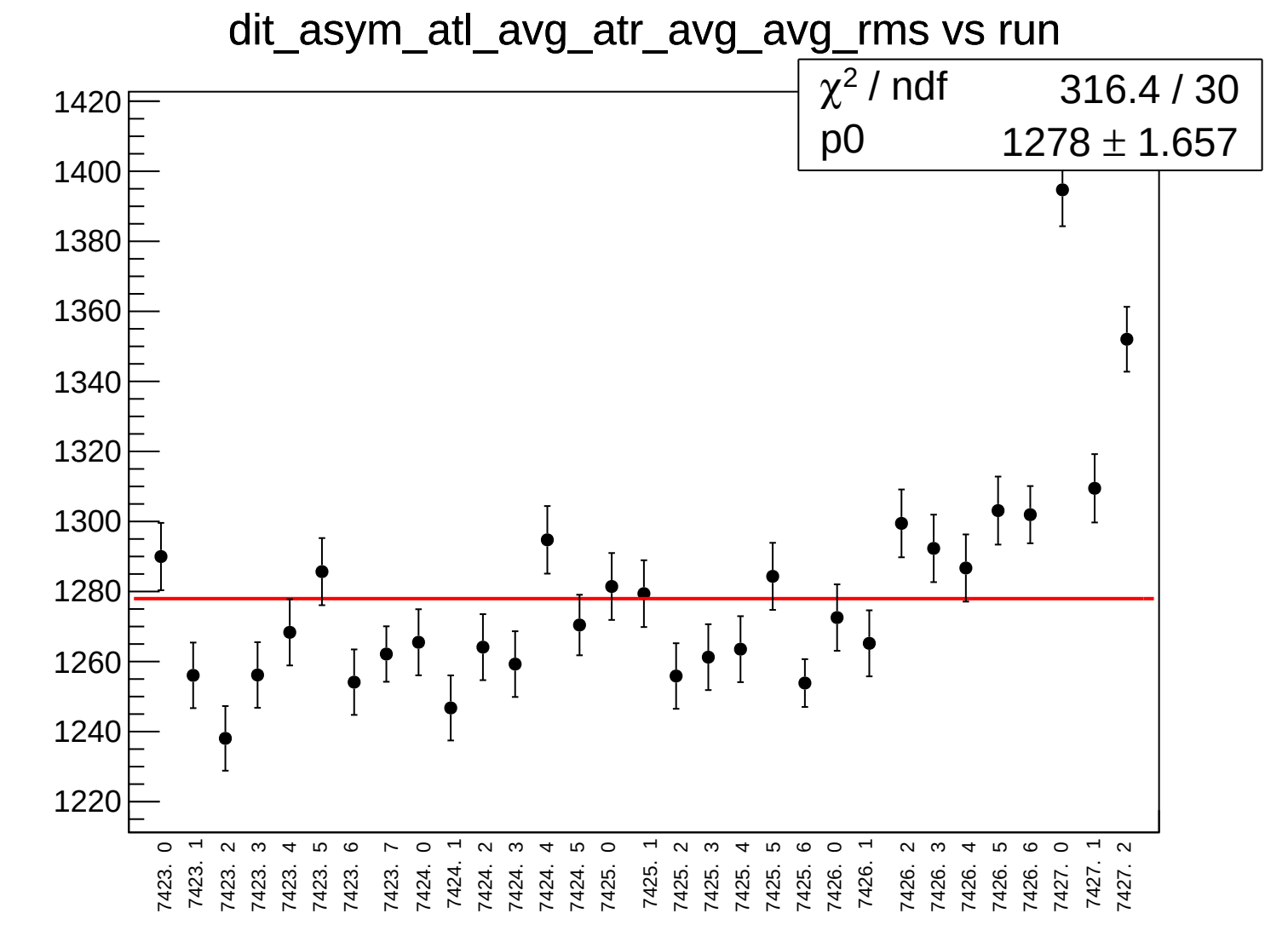

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 21.19 / 30
p0 4240 ± 7361
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 478.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

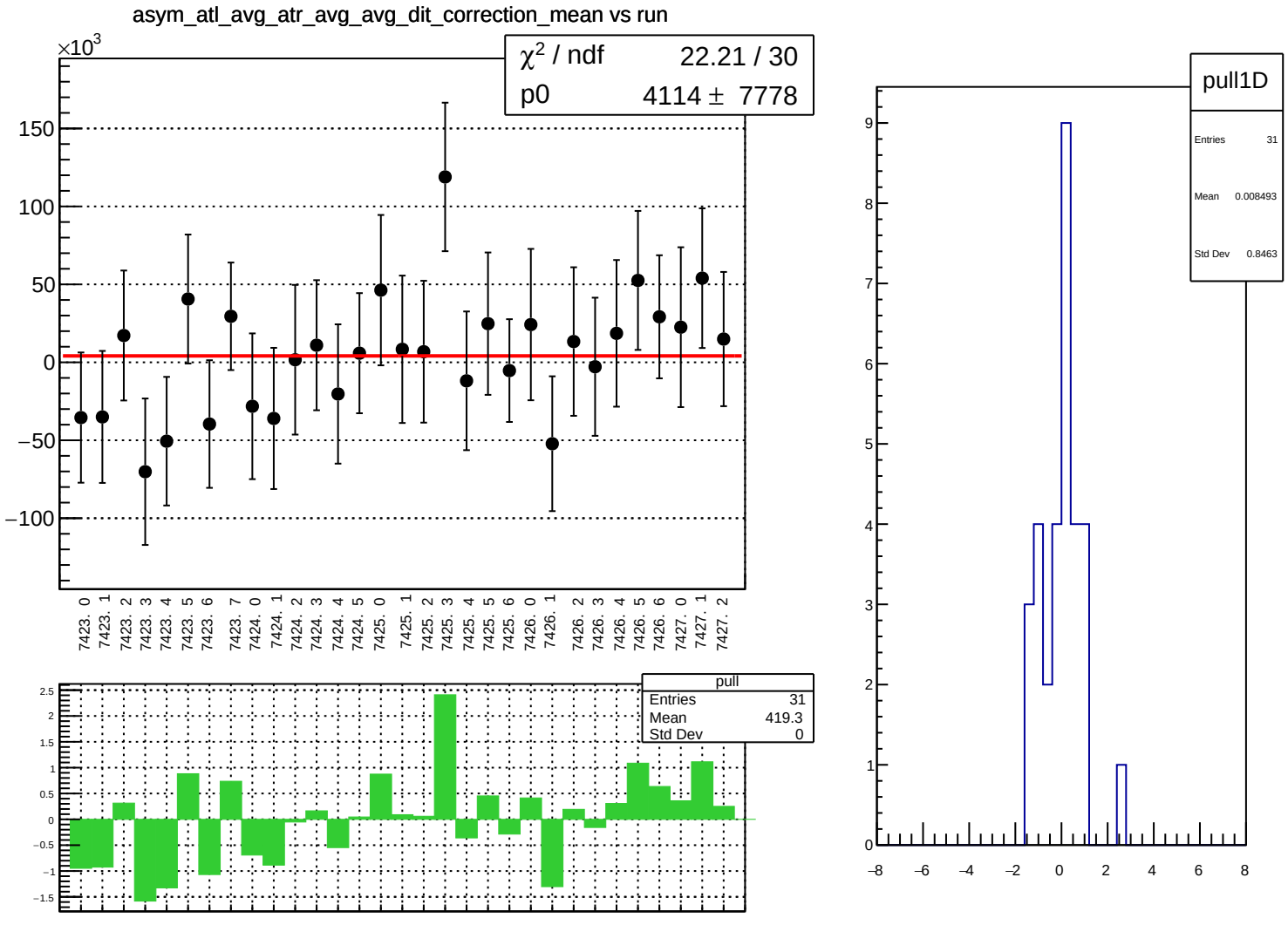

pull1D
Entries 31
Mean 0.007434
Std Dev 0.8267
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

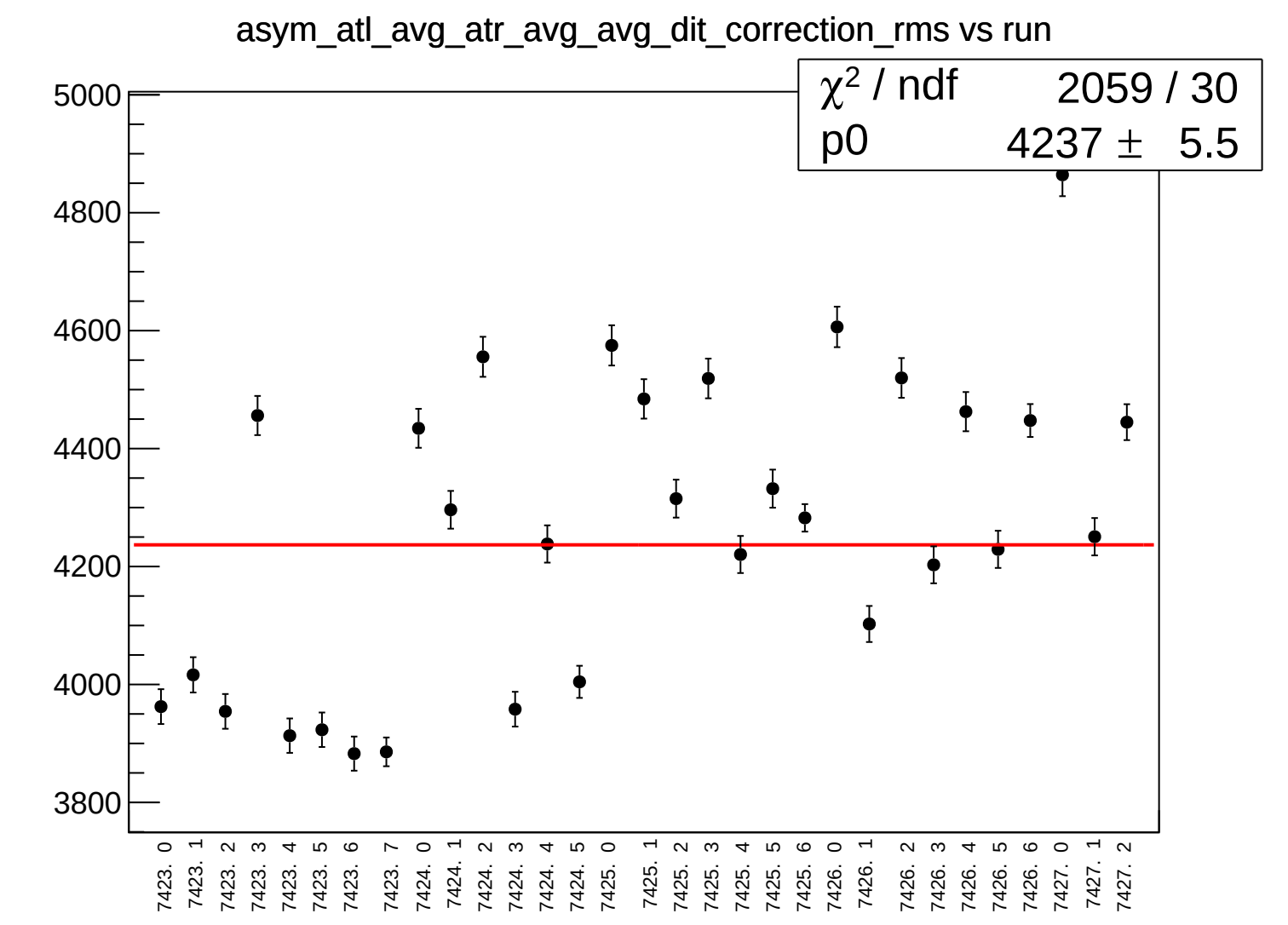

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2137 / 30
p0 4009 ± 5.205
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

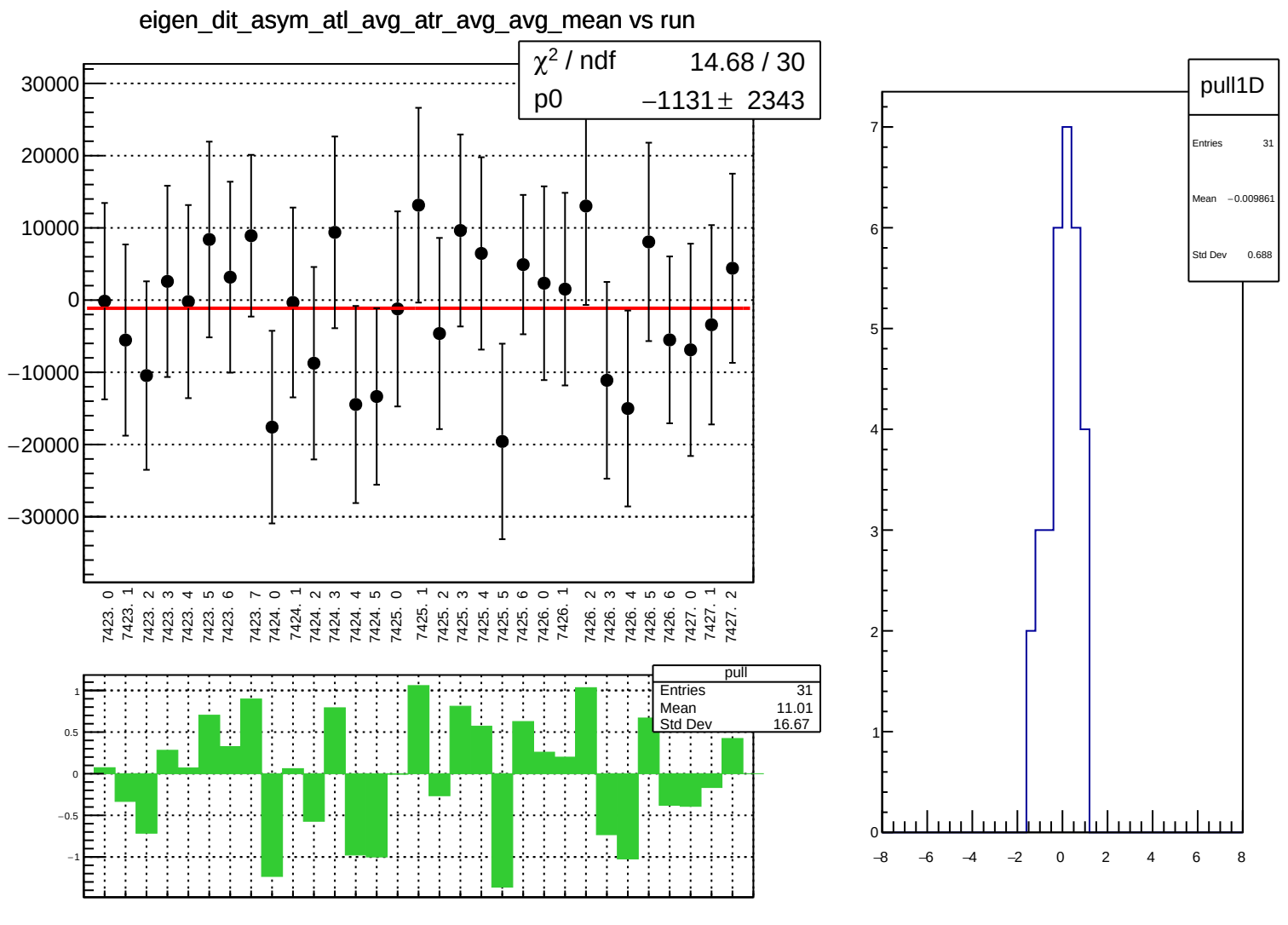

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 14.68 / 30
p0 −1131 ± 2343
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.01
Std Dev 16.67
1
0.5
0
−0.5
−1

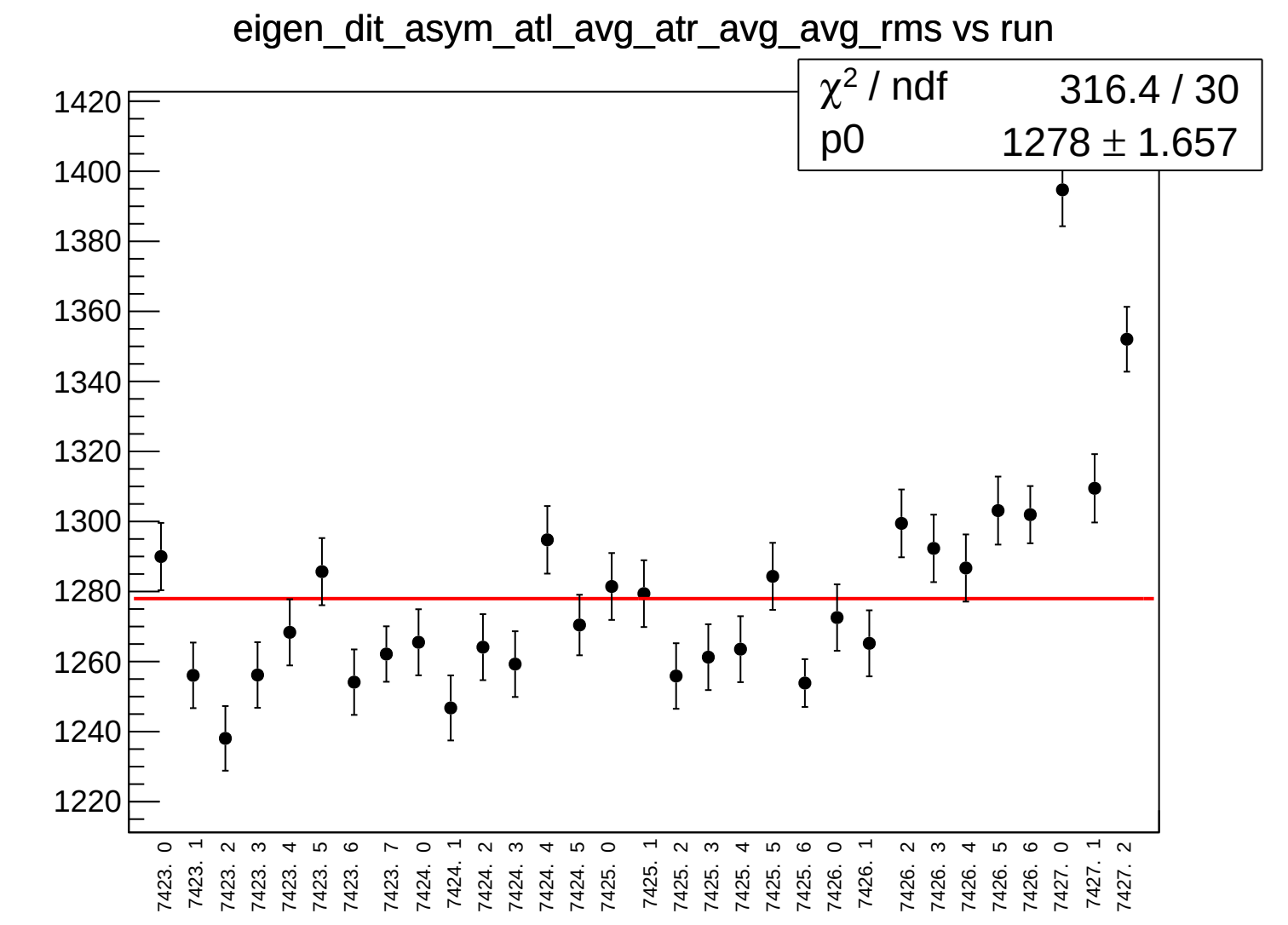

pull1D
Entries 31
Mean −0.009861
Std Dev 0.688
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

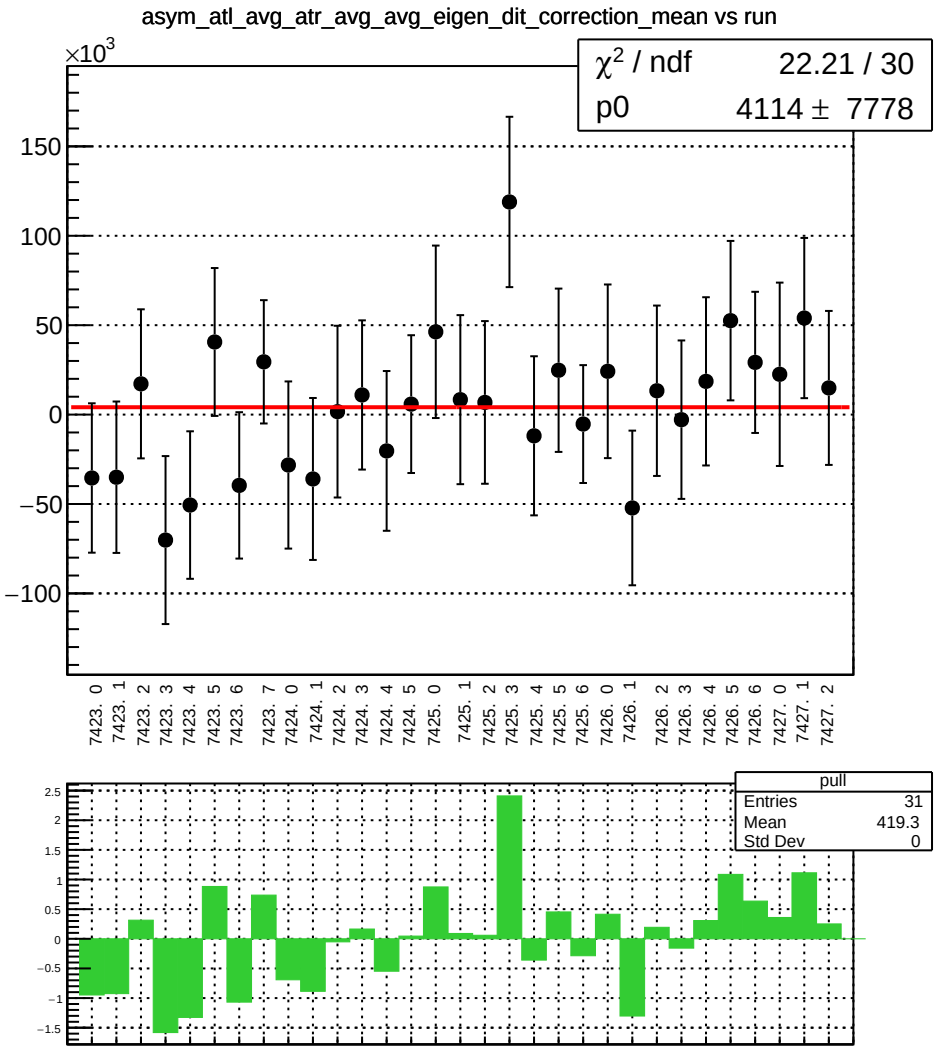

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 316.4 / 30
p0 1278 ± 1.657
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

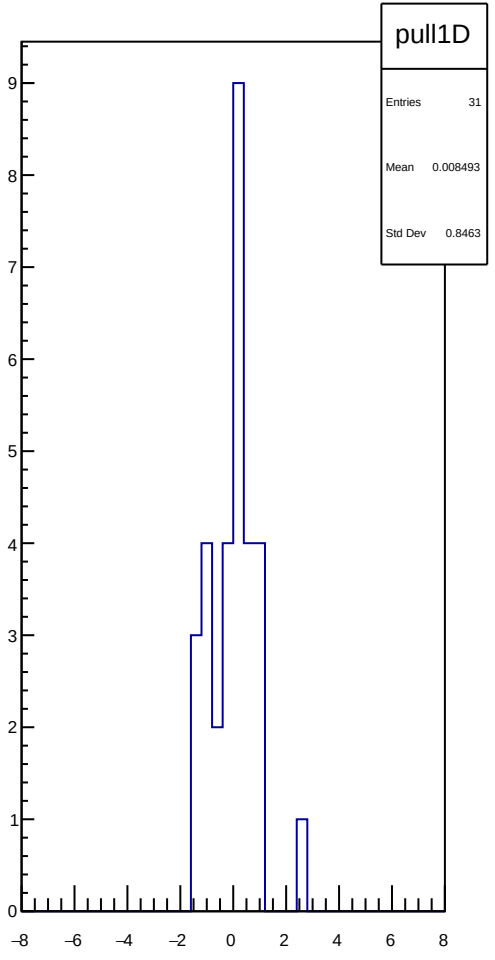

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 22.21 / 30
p0 4114 ± 7778
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 419.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.008493
Std Dev 0.8463
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

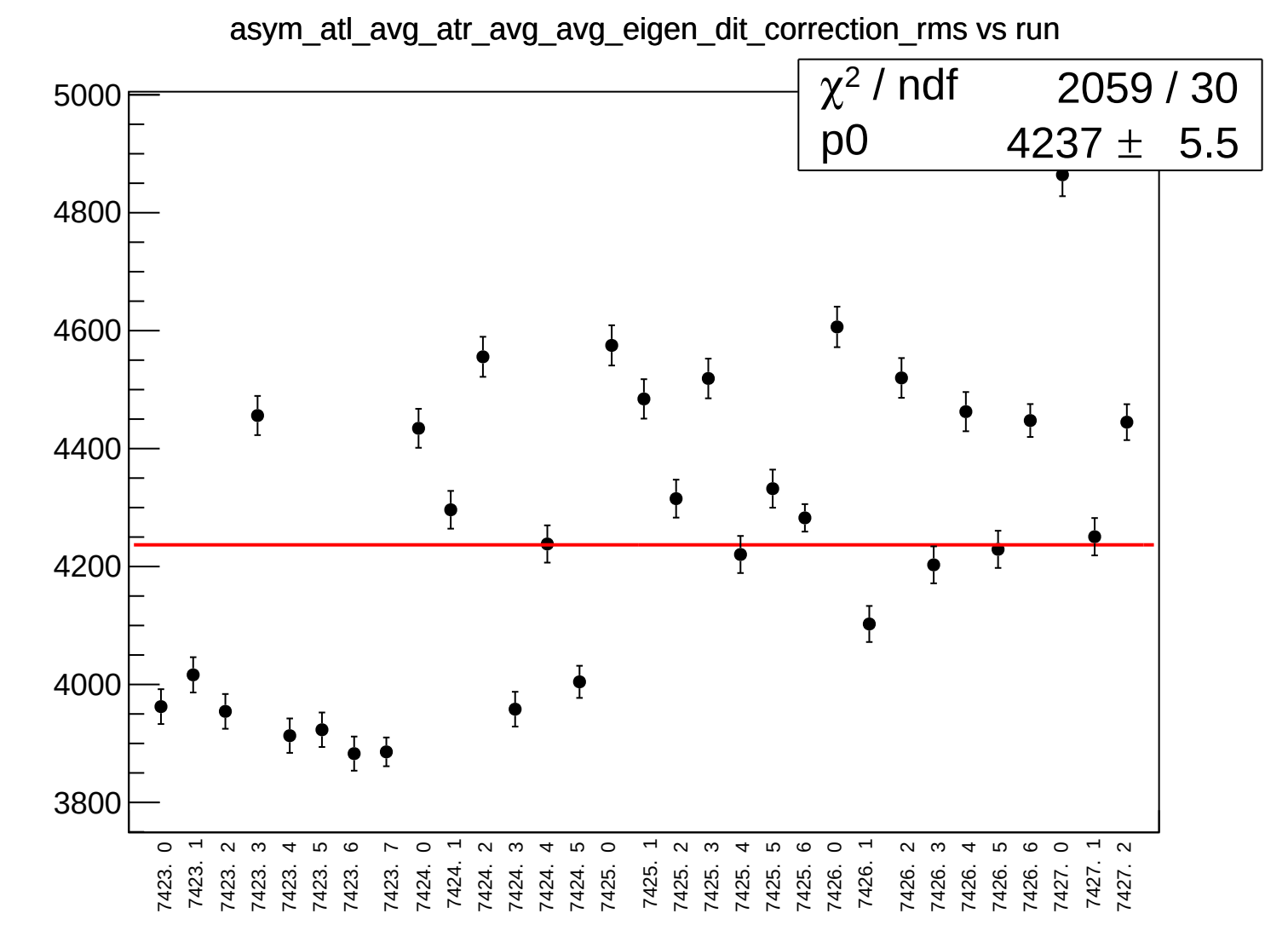

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2059 / 30
p0 4237 ± 5.5
5000
4800
4600
4400
4200
4000
3800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

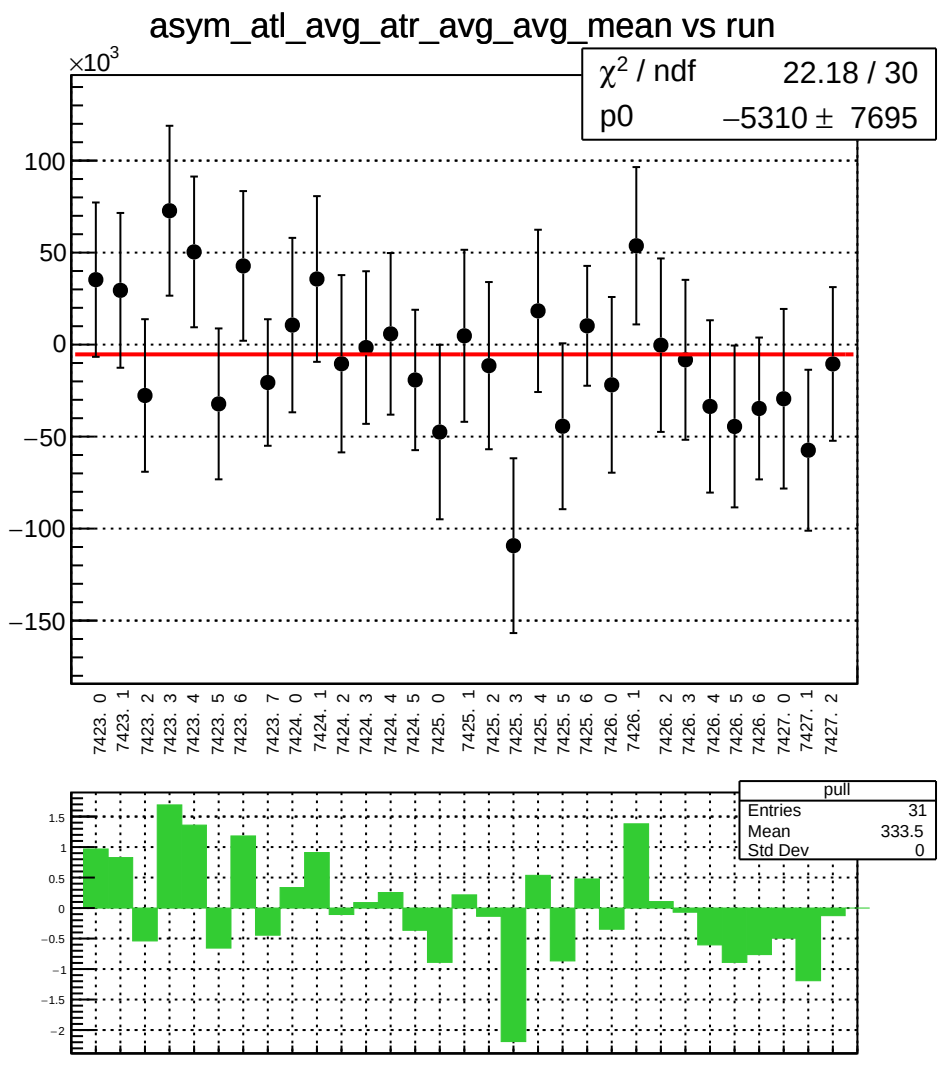

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 14.68 / 30
p0 −1131 ± 2343
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.01
Std Dev 16.67
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.009861
Std Dev 0.688
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

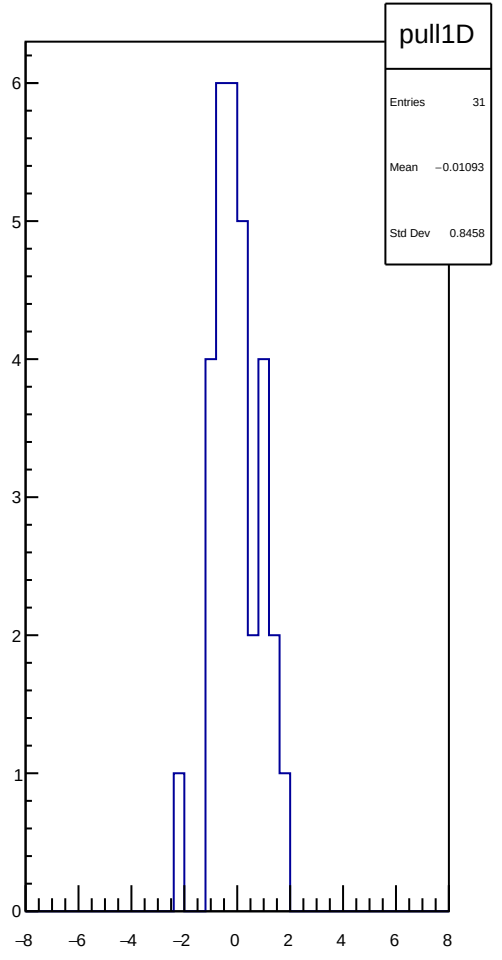

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 316.4 / 30
p0 1278 ± 1.657
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

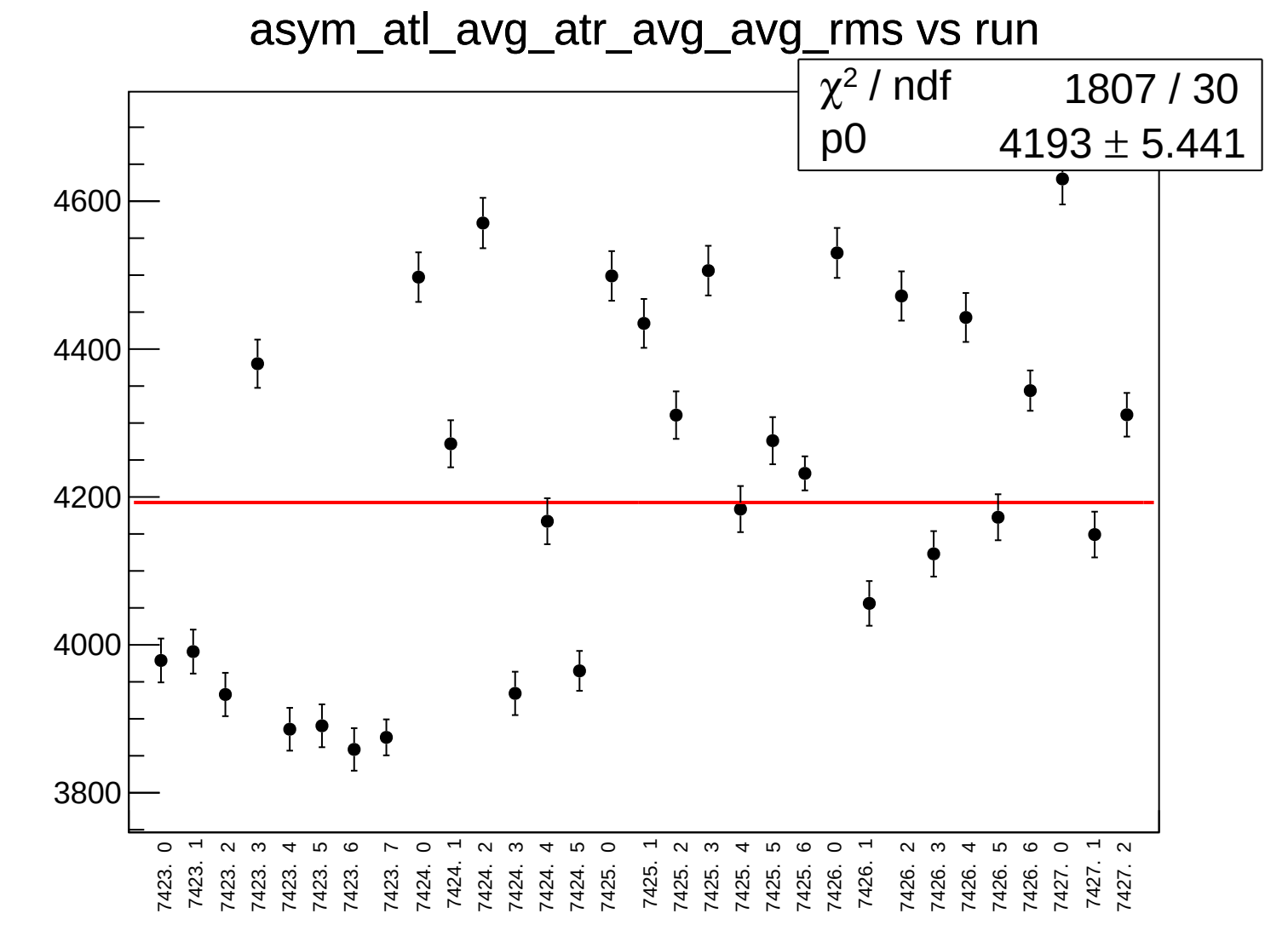

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.21 / 30
p0 4114 ± 7778
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 419.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

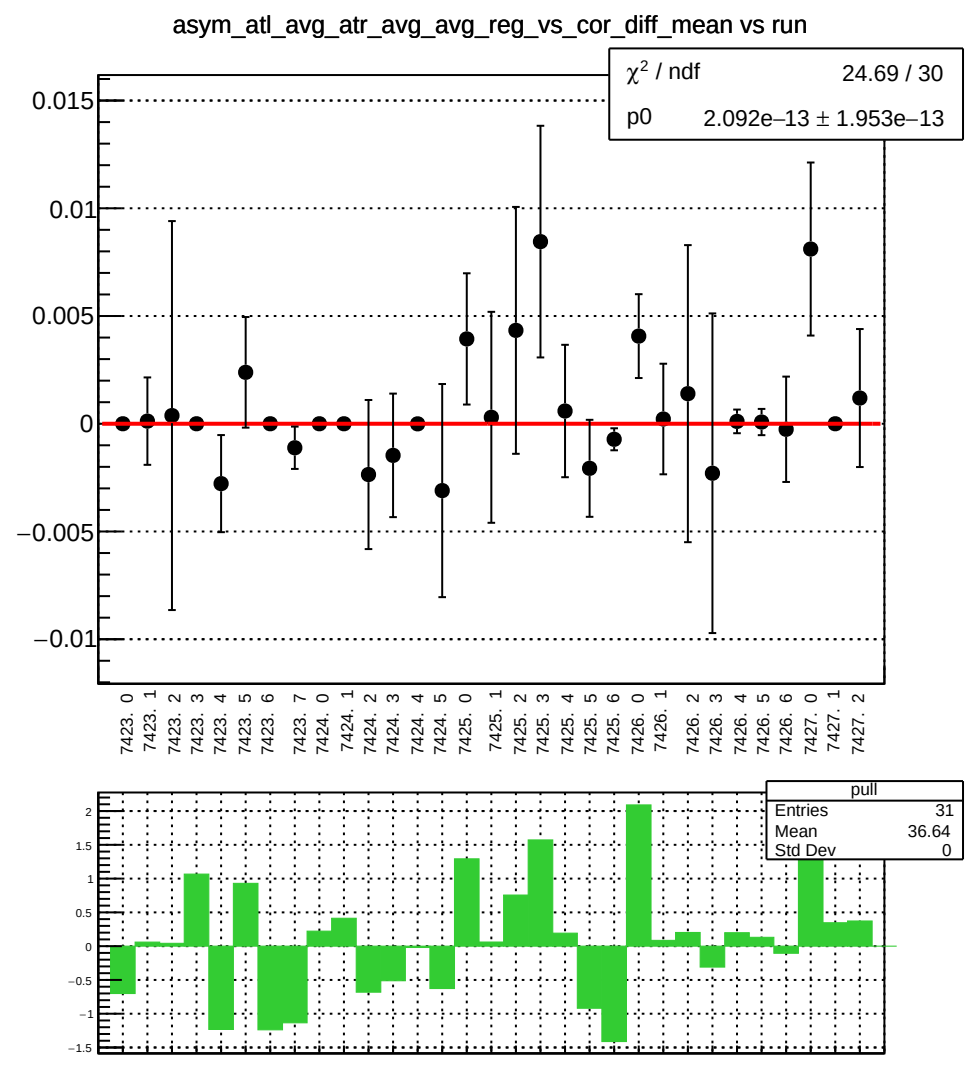

pull1D
Entries 31
Mean 0.008493
Std Dev 0.8463
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

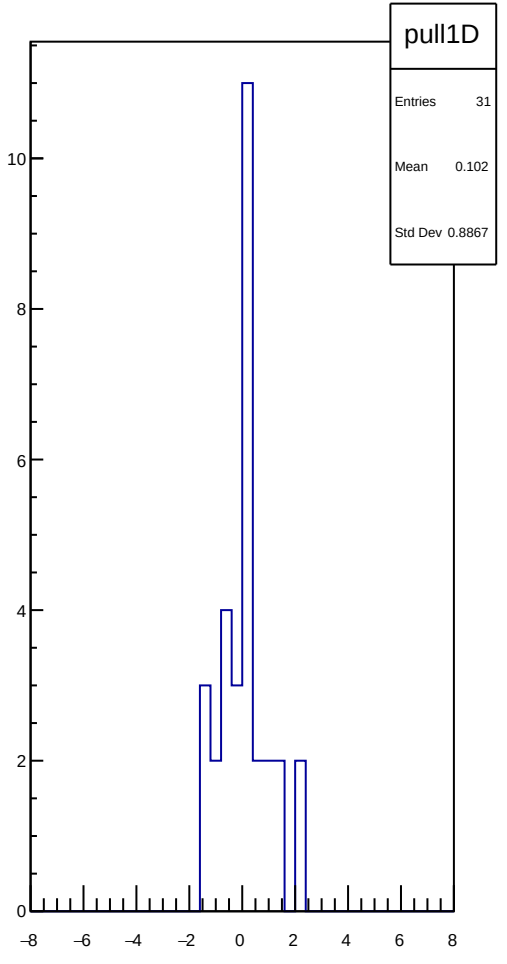

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2059 / 30
p0 4237 ± 5.5
5000
4800
4600
4400
4200
4000
3800
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

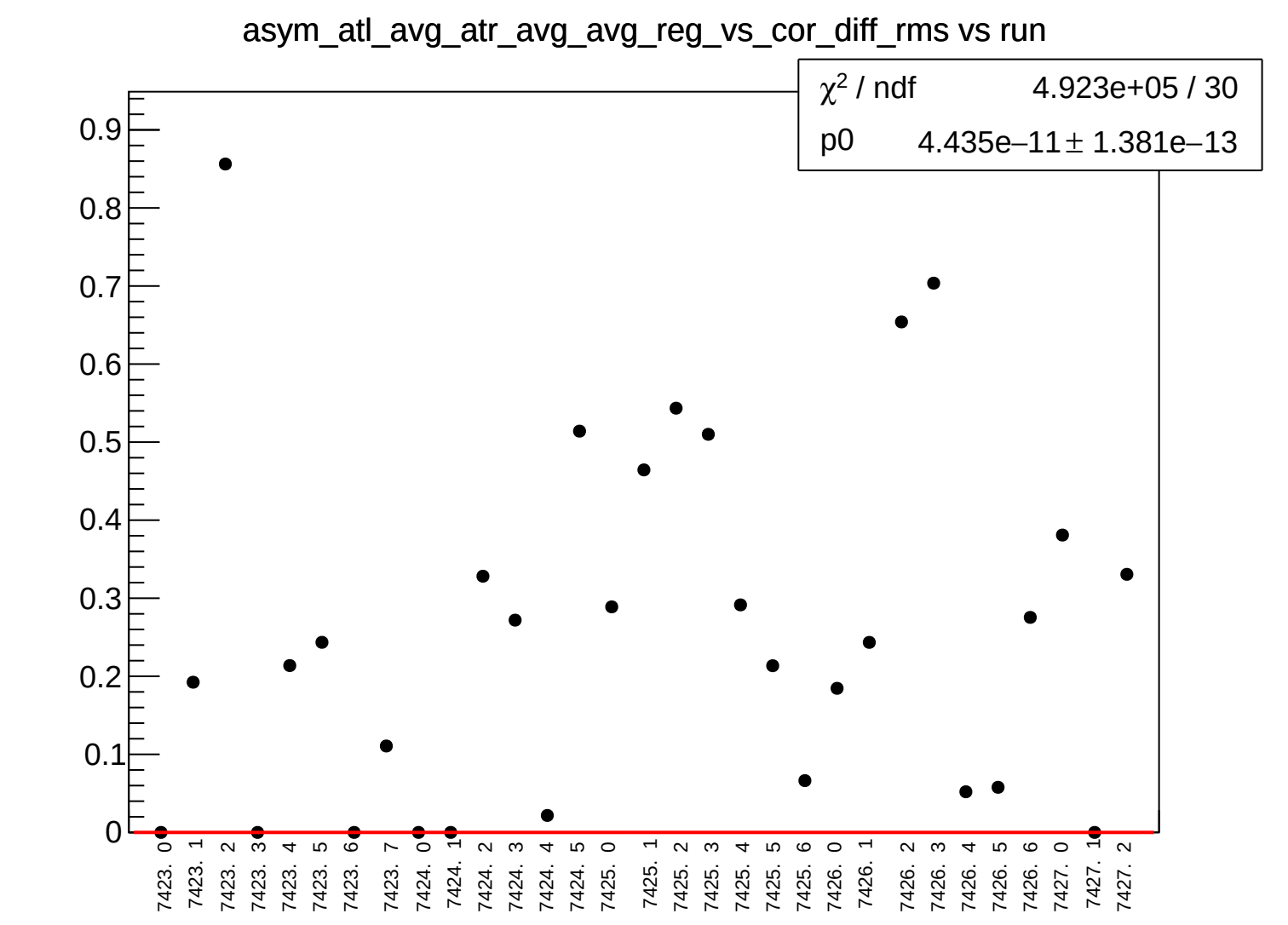

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 22.18 / 30
p0 −5310 ± 7695
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 333.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

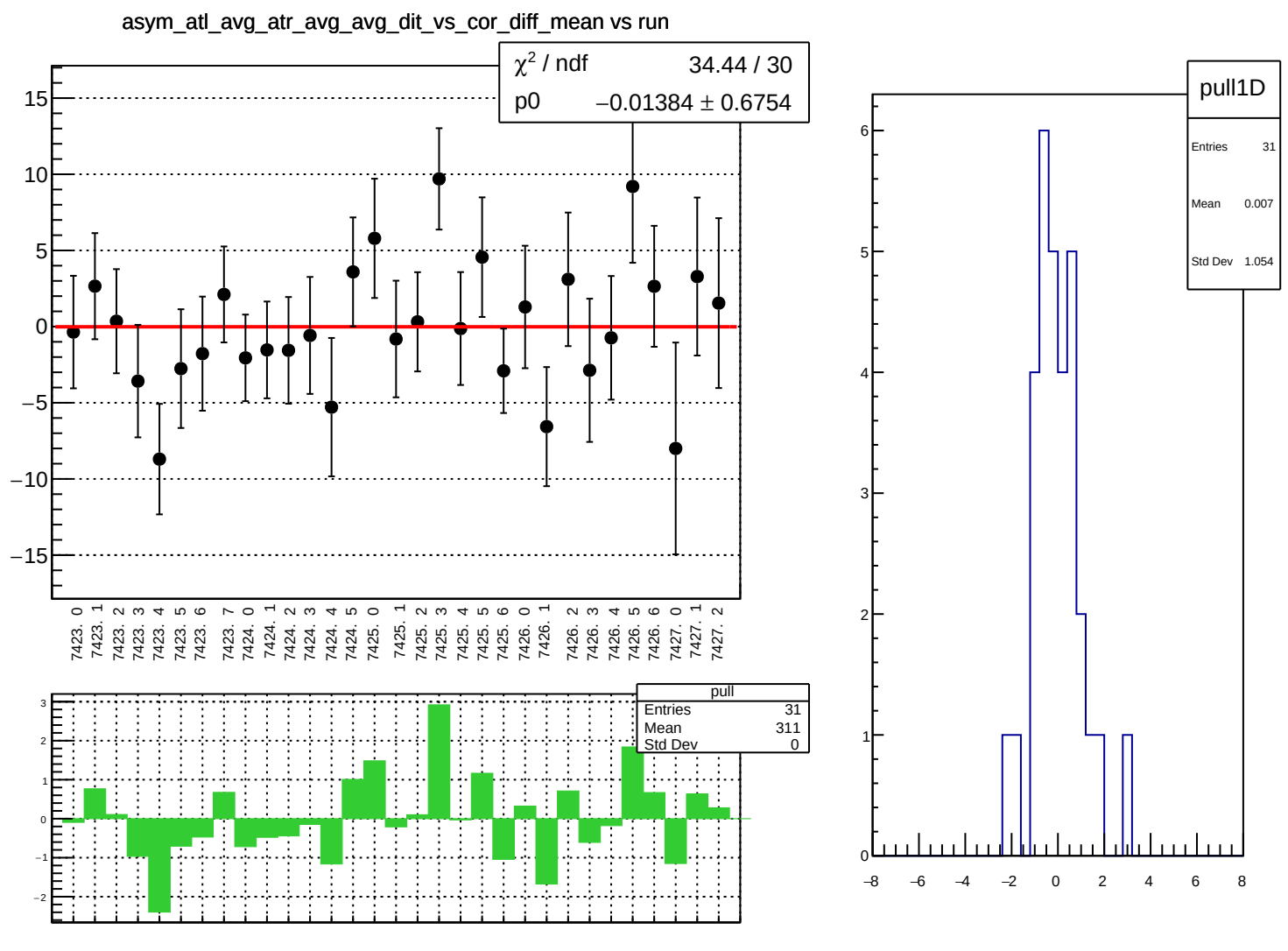

pull1D
Entries 31
Mean −0.01093
Std Dev 0.8458
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

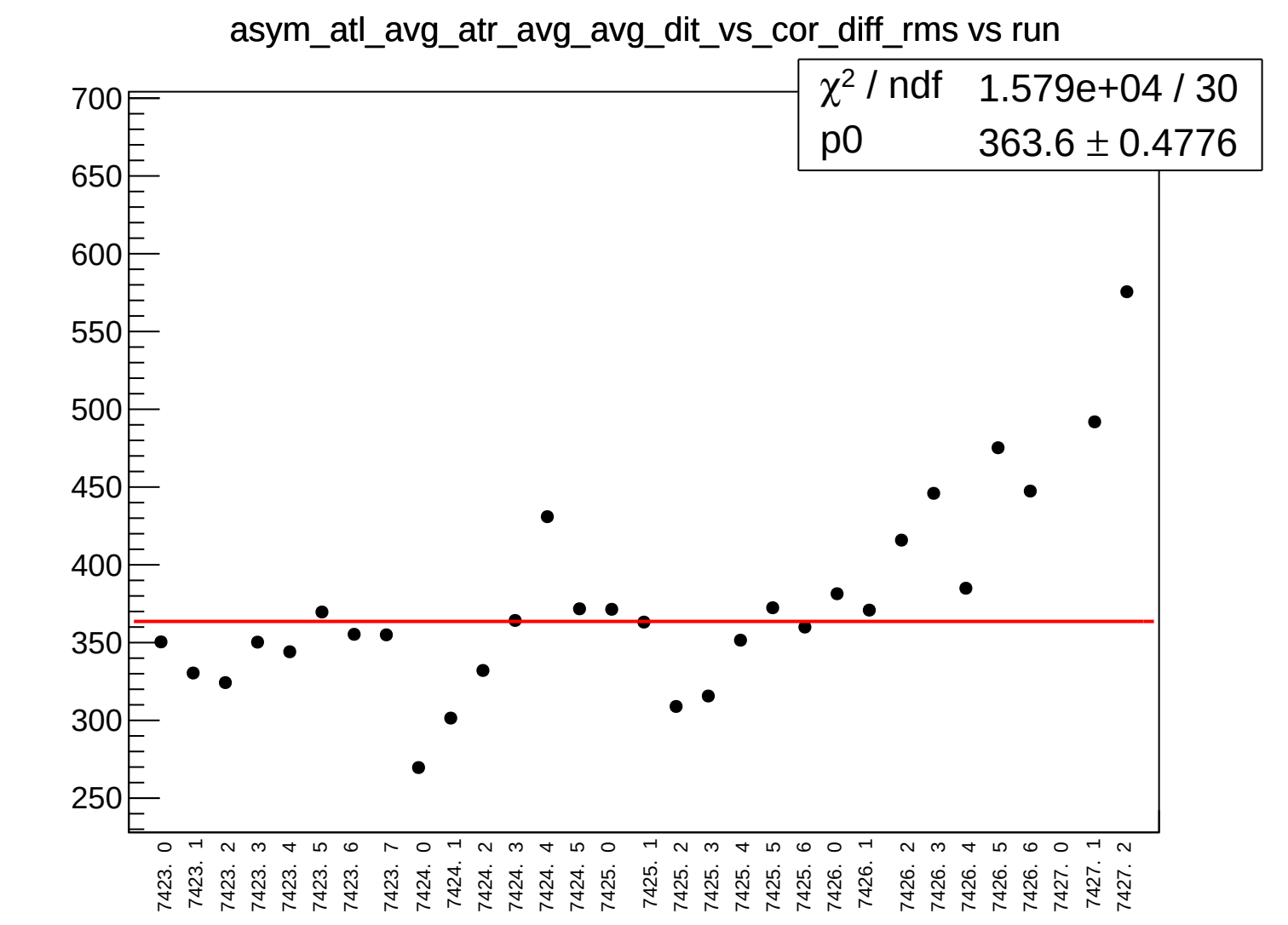

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1807 / 30
p0 4193 ± 5.441
4600
4400
4200
4000
3800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

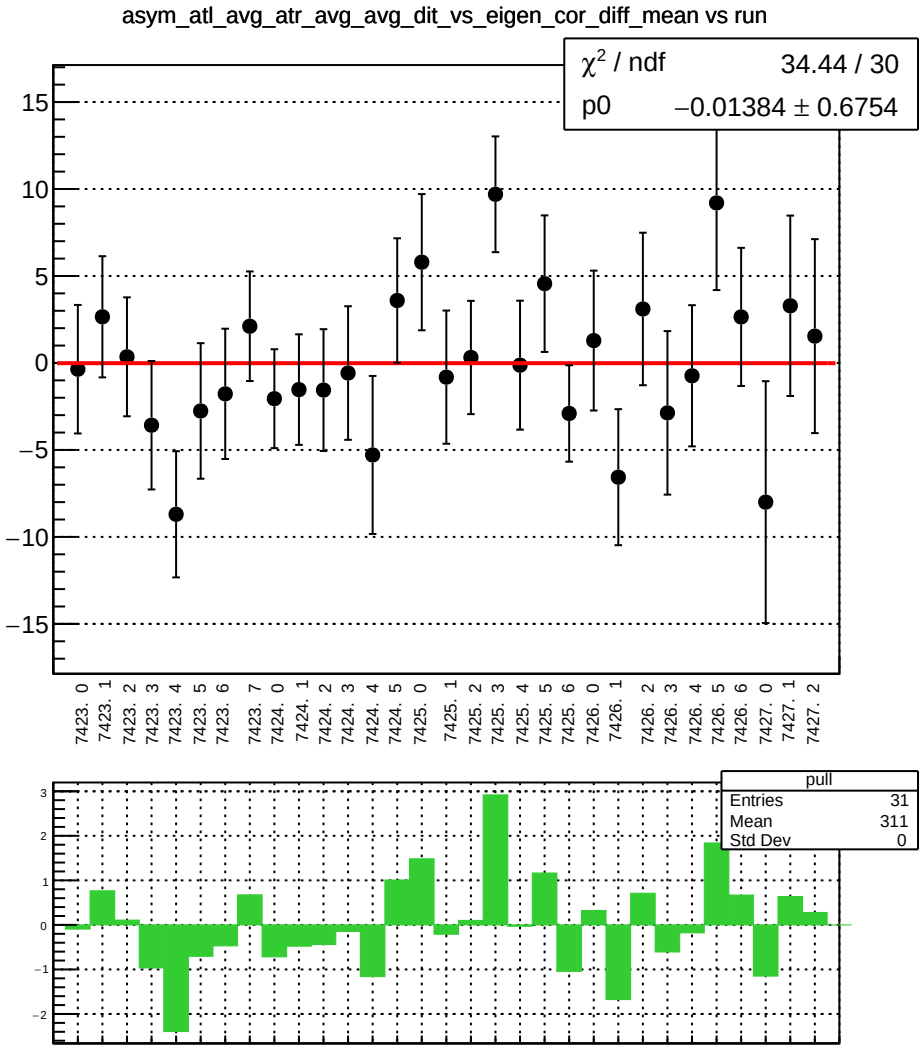

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 24.69 / 30
p0 2.092e−13 ± 1.953e−13
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 36.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

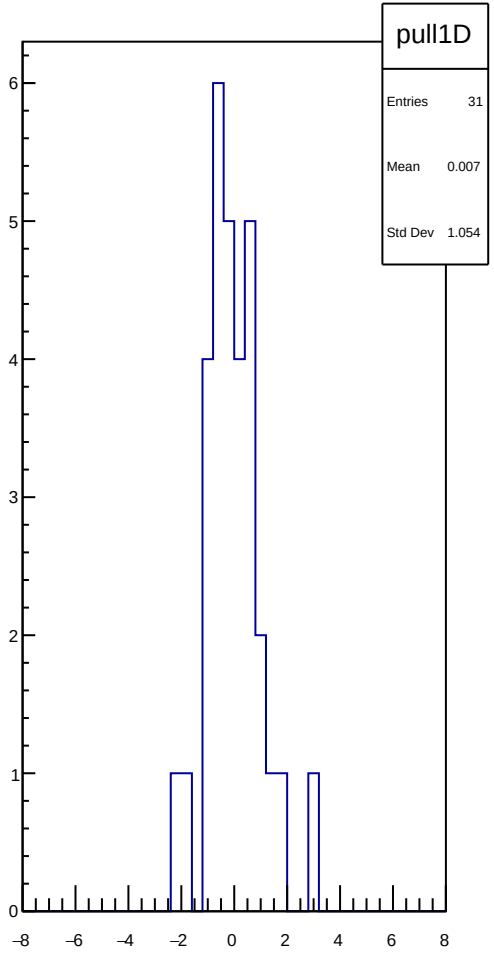

pull1D
Entries 31
Mean 0.102
Std Dev 0.8867
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

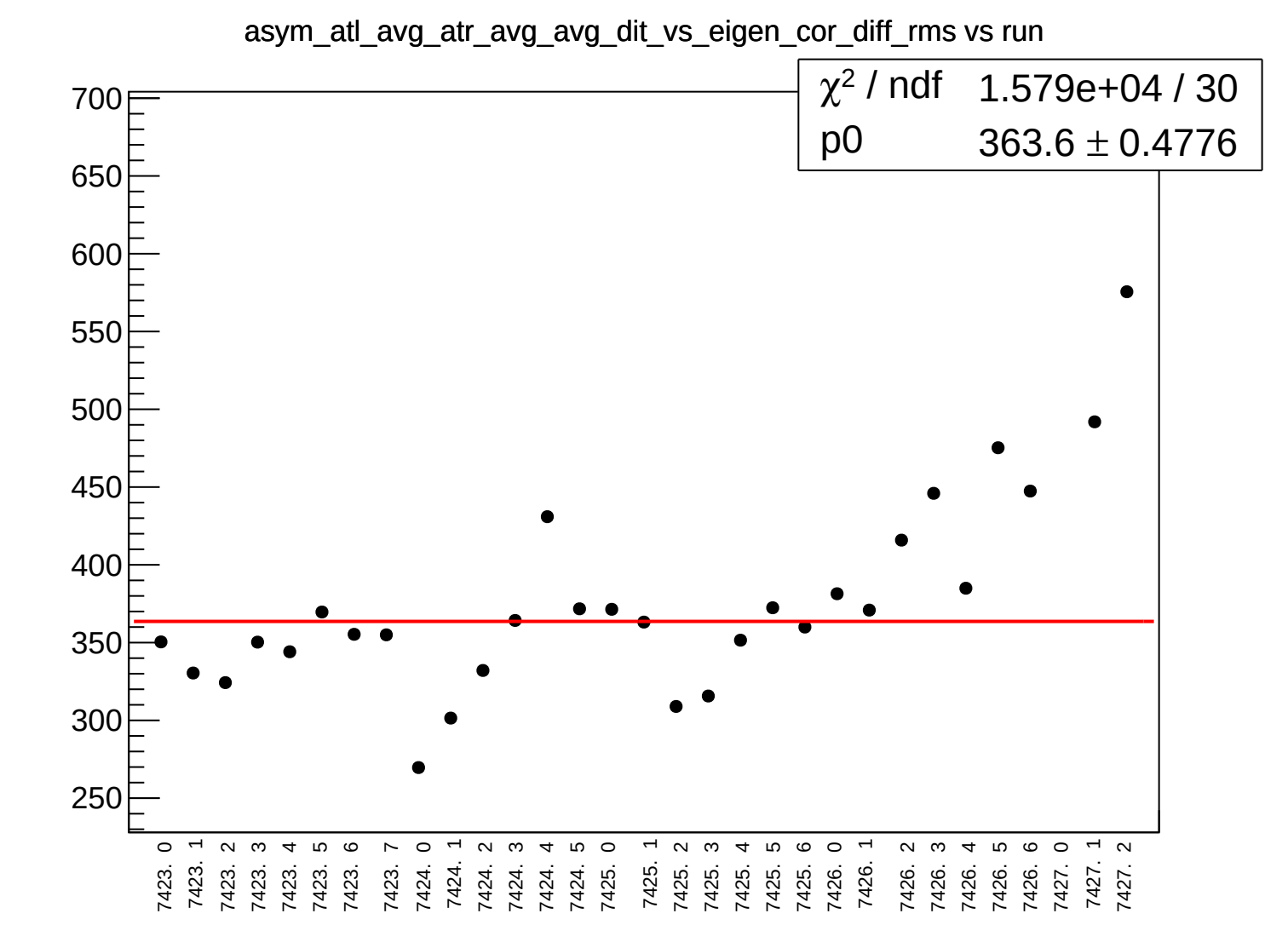

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.923e+05 / 30
p0 4.435e−11 ± 1.381e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

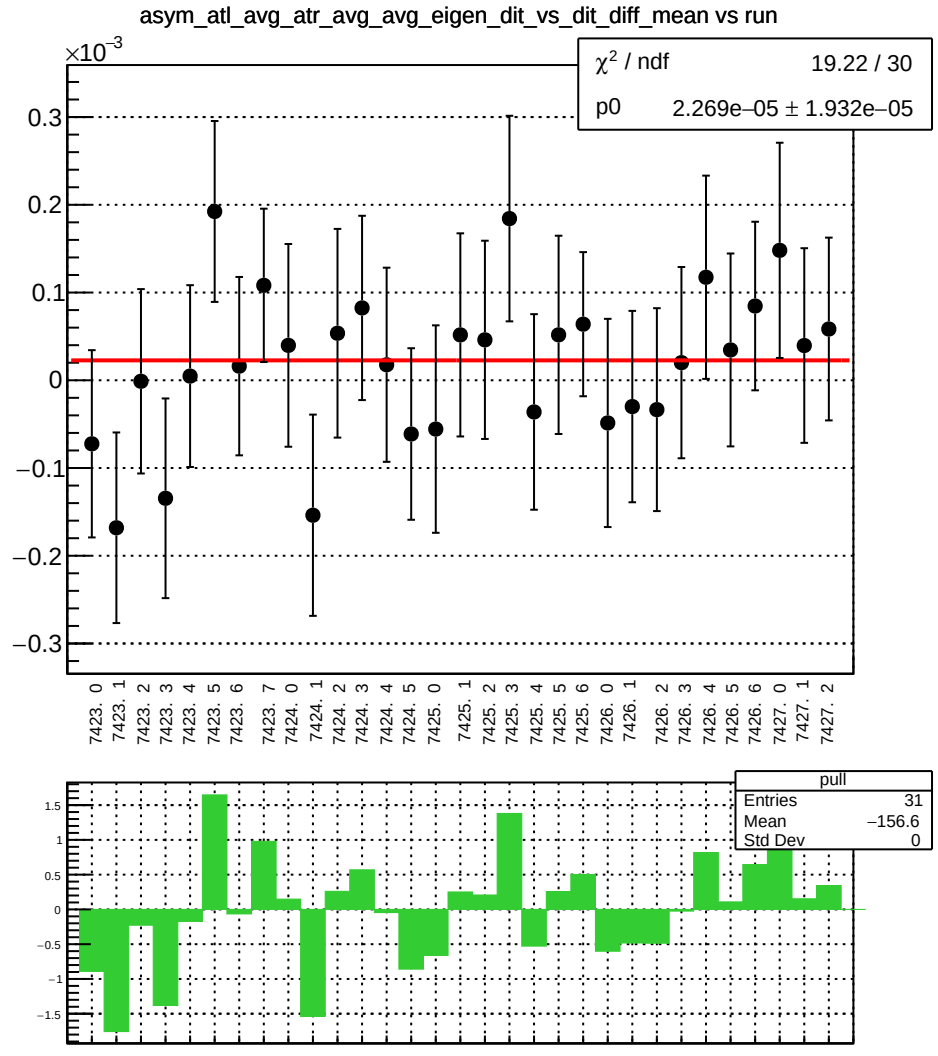

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.44 / 30
p0 −0.01384 ± 0.6754
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 311
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.007
Std Dev 1.054
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

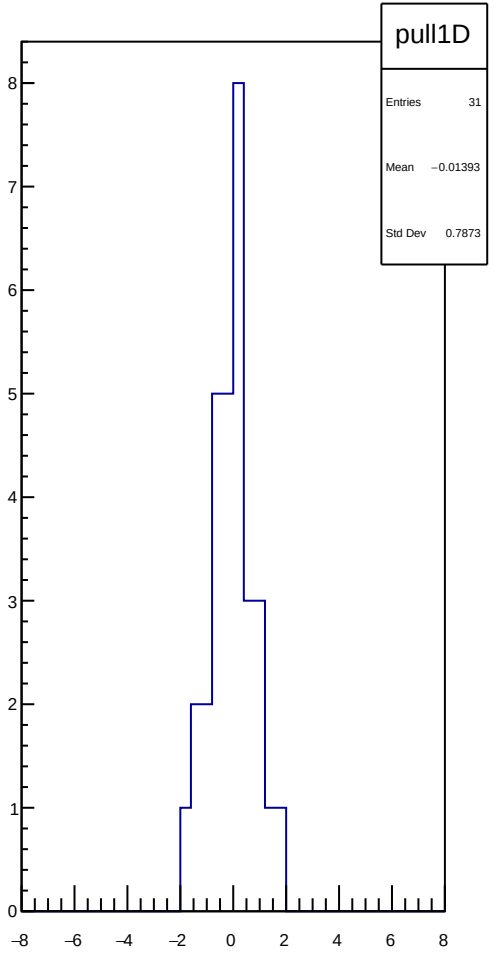

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.579e+04 / 30
p0 363.6 ± 0.4776
700
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

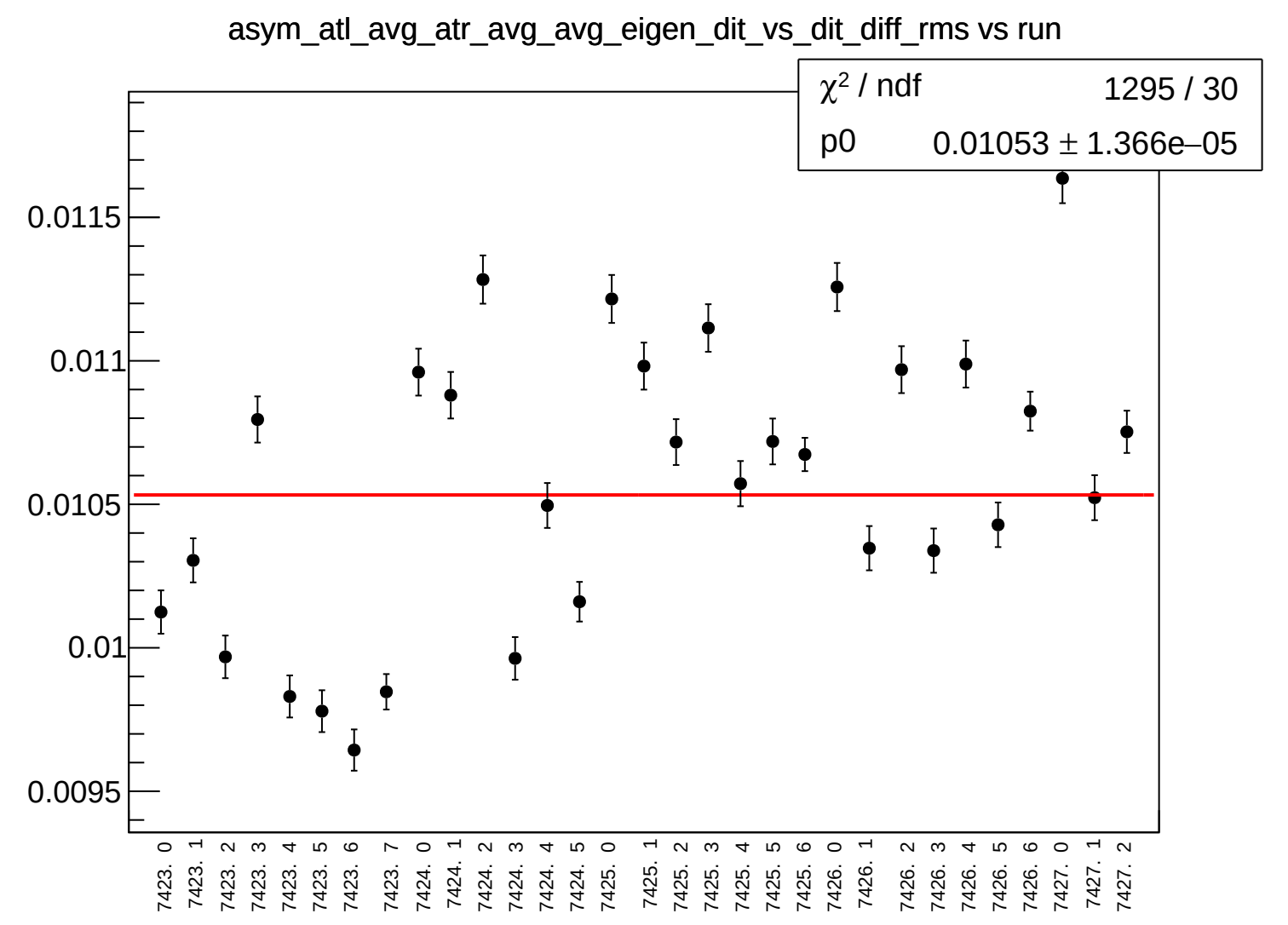

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.44 / 30
p0 −0.01384 ± 0.6754
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 311
Std Dev 0
3
2
1
0
−1
−2

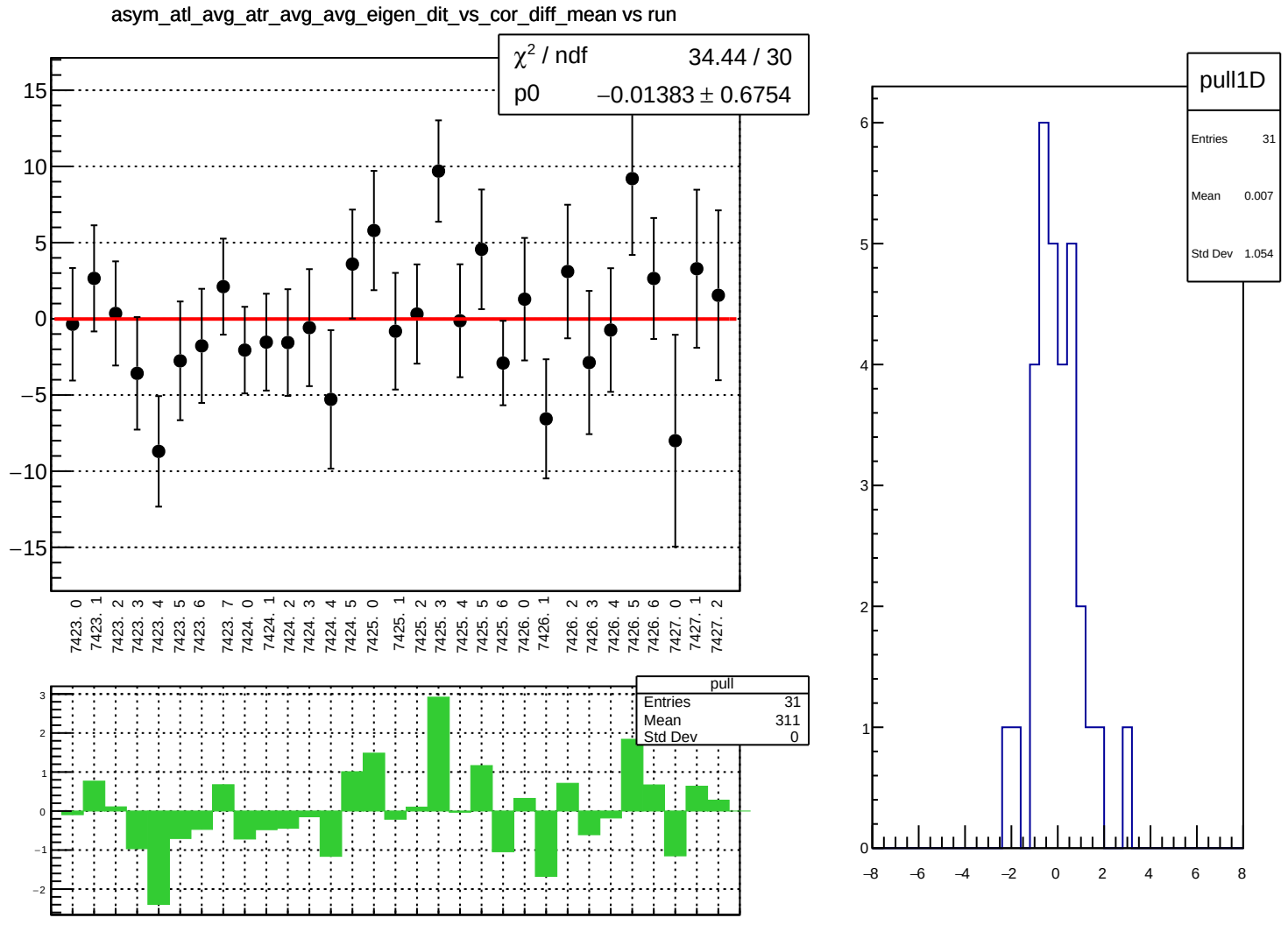

pull1D
Entries 31
Mean 0.007
Std Dev 1.054
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

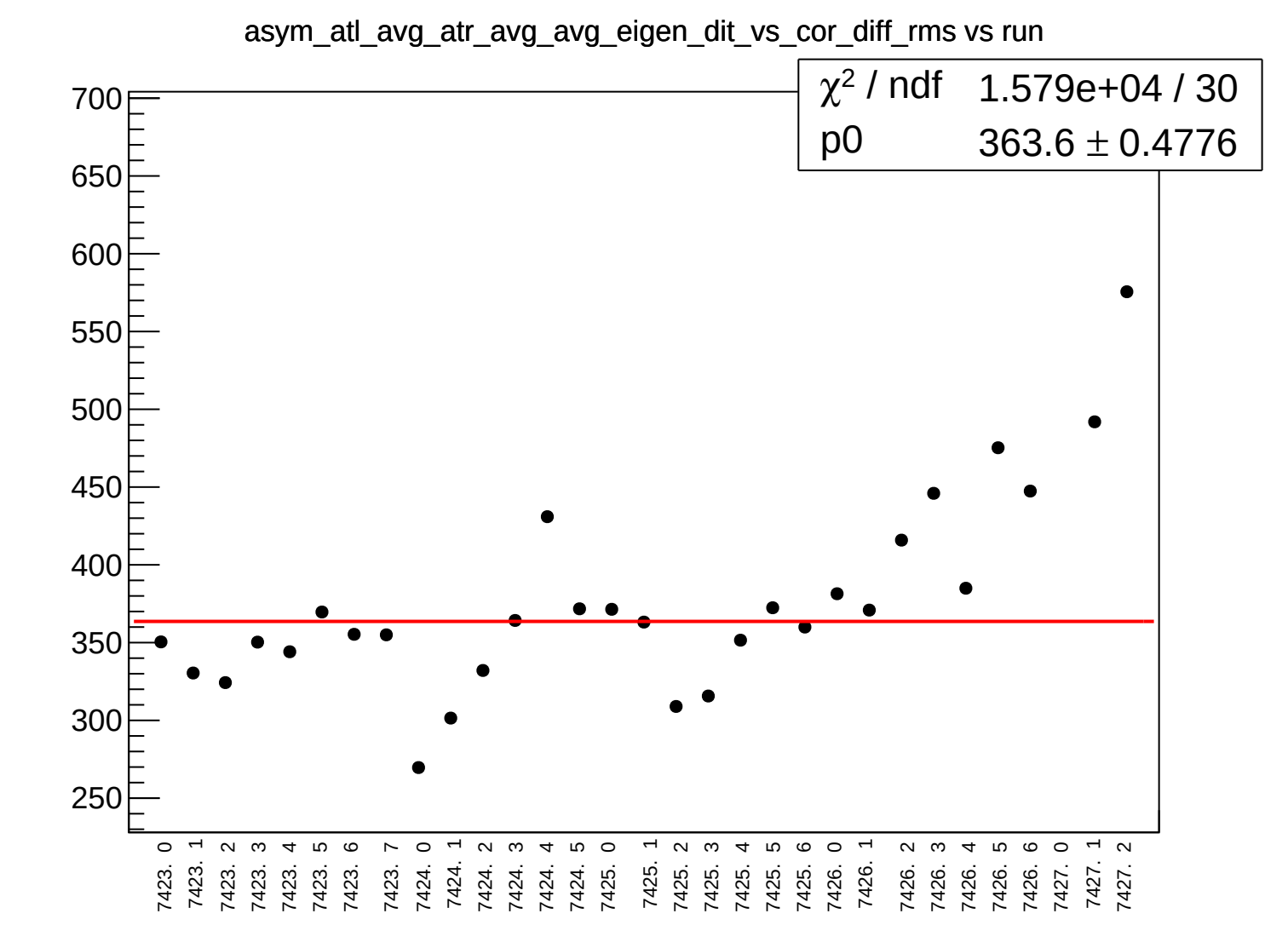

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.579e+04 / 30
p0 363.6 ± 0.4776
700
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

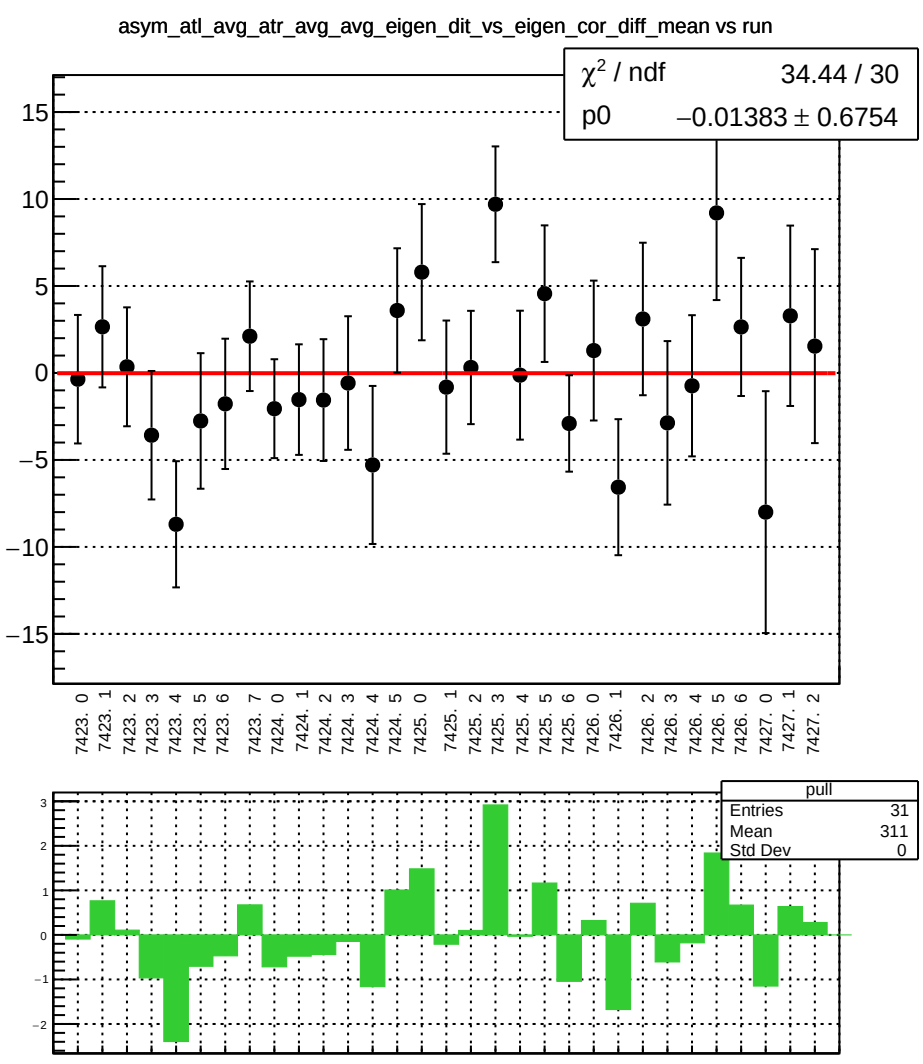

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.22 / 30
p0 2.269e−05 ± 1.932e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −156.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

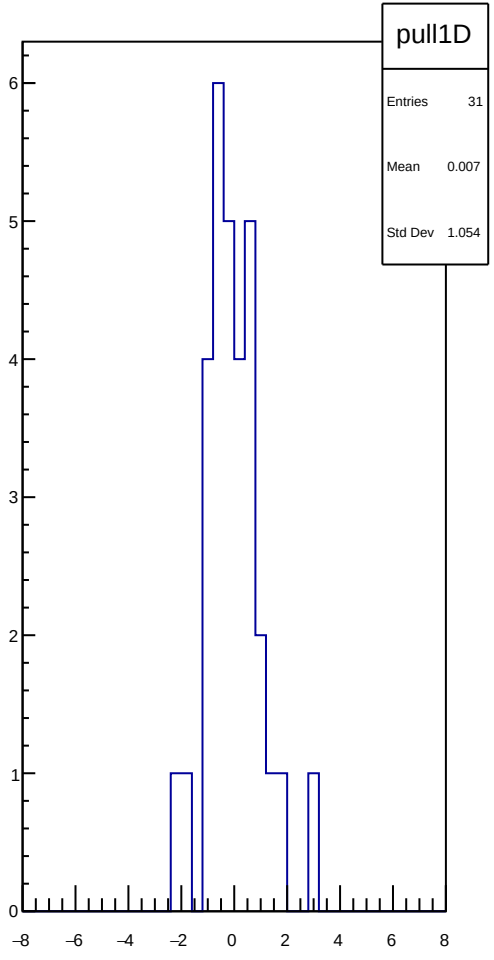

pull1D
Entries 31
Mean −0.01393
Std Dev 0.7873
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

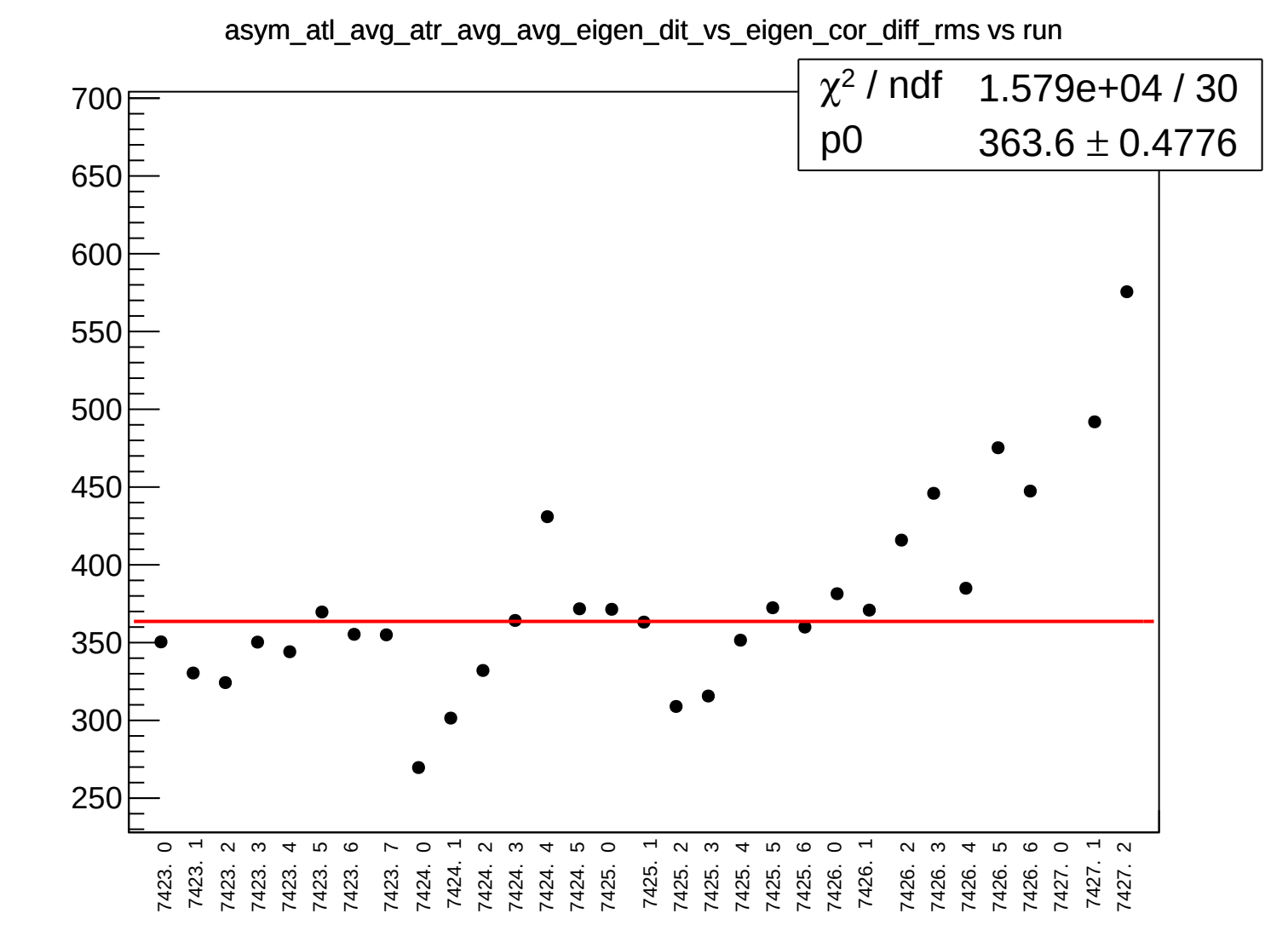

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1295 / 30
p0 0.01053 ± 1.366e−05
0.0115
0.011
0.0105
0.01
0.0095
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

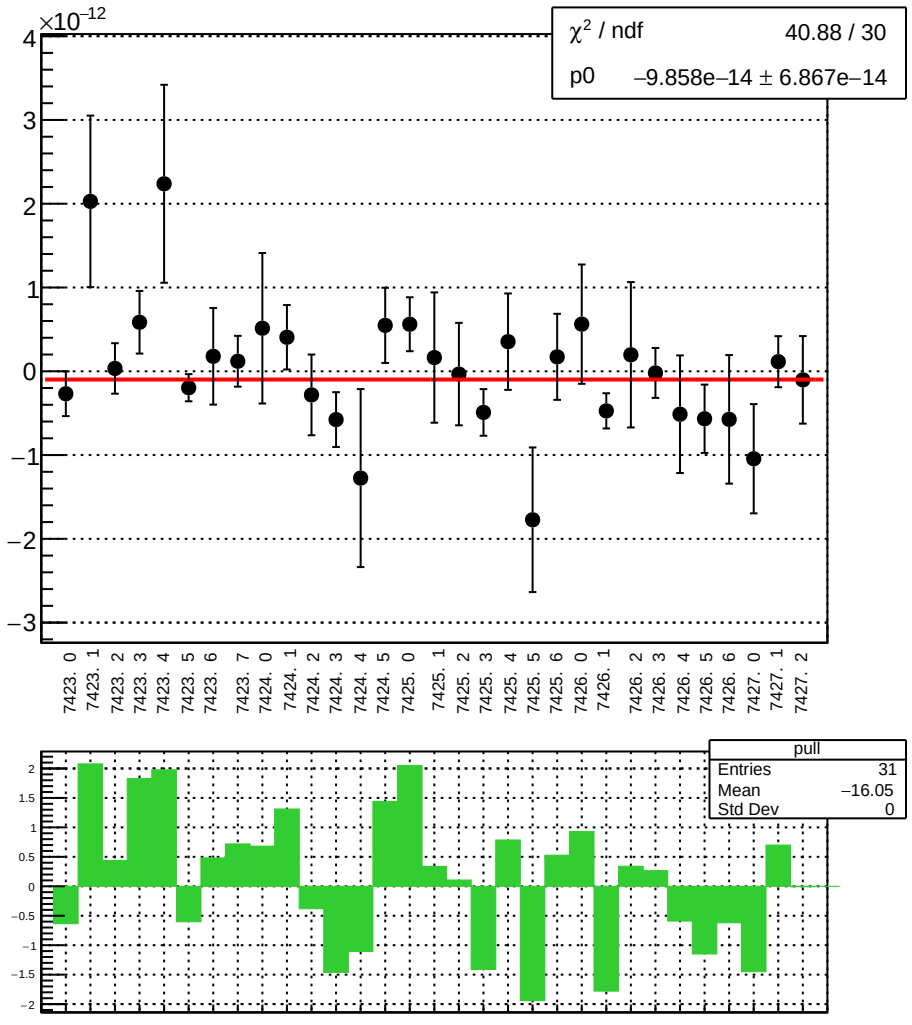

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.44 / 30
p0 −0.01383 ± 0.6754
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 311
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.007
Std Dev 1.054
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

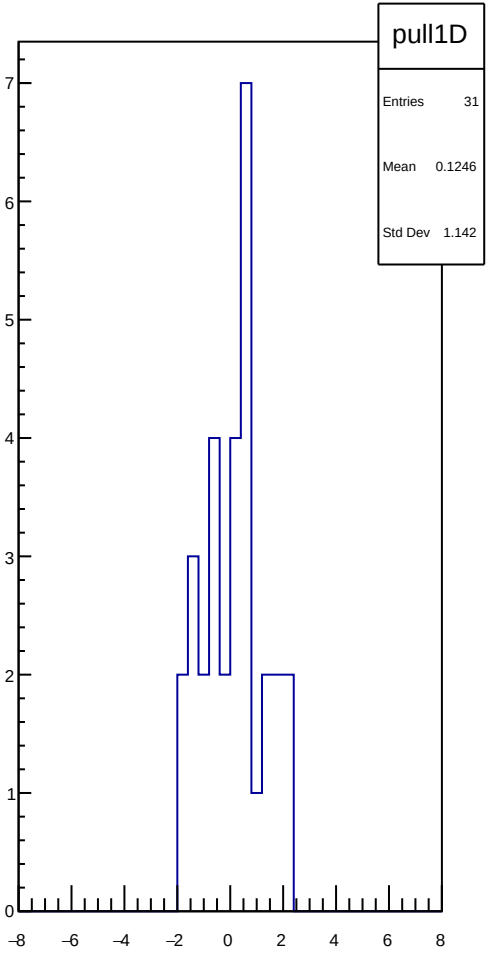

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.579e+04 / 30
p0 363.6 ± 0.4776
700
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

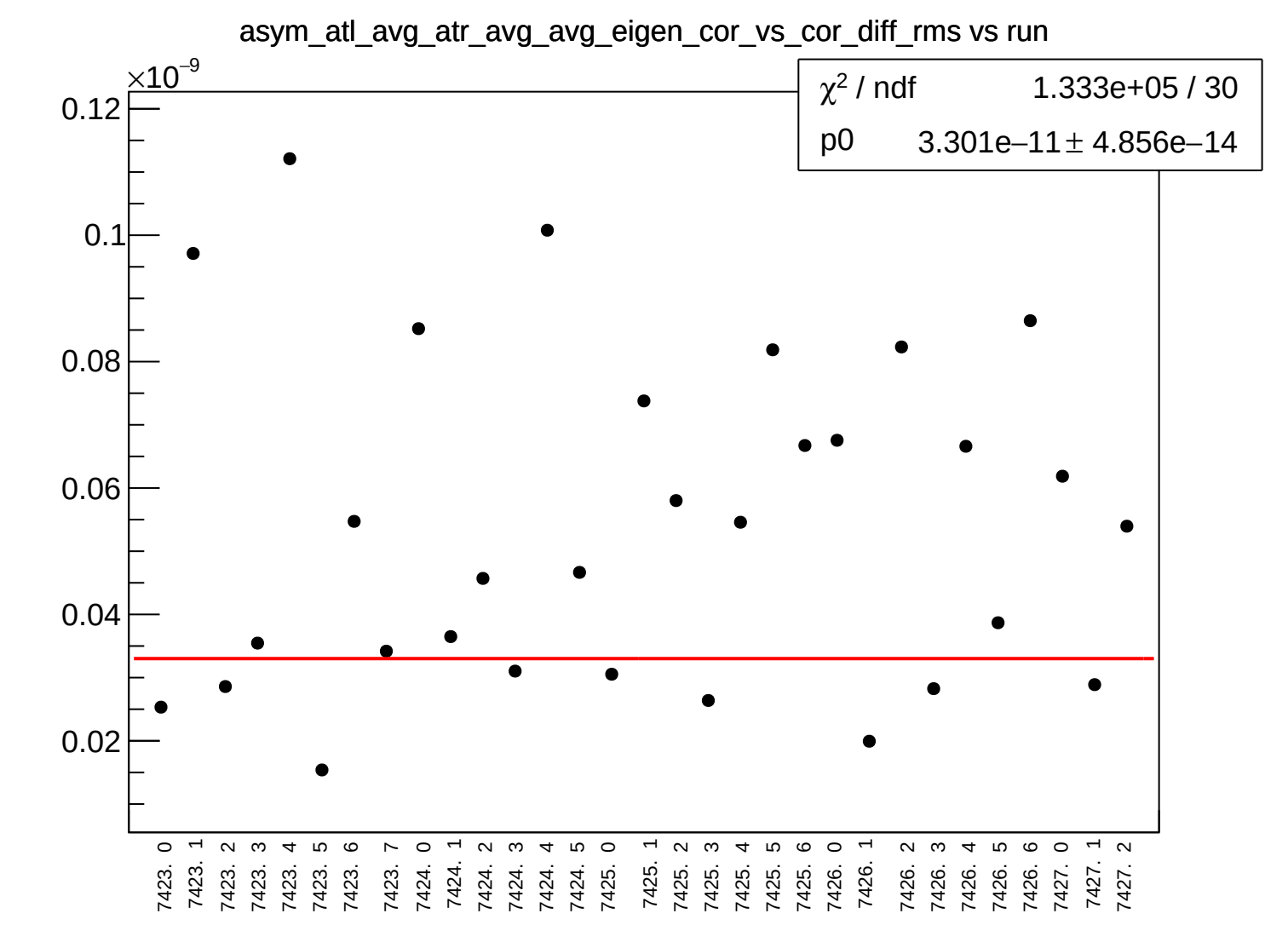

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.44 / 30
p0 −0.01383 ± 0.6754
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 311
Std Dev 0
3
2
1
0
−1
−2

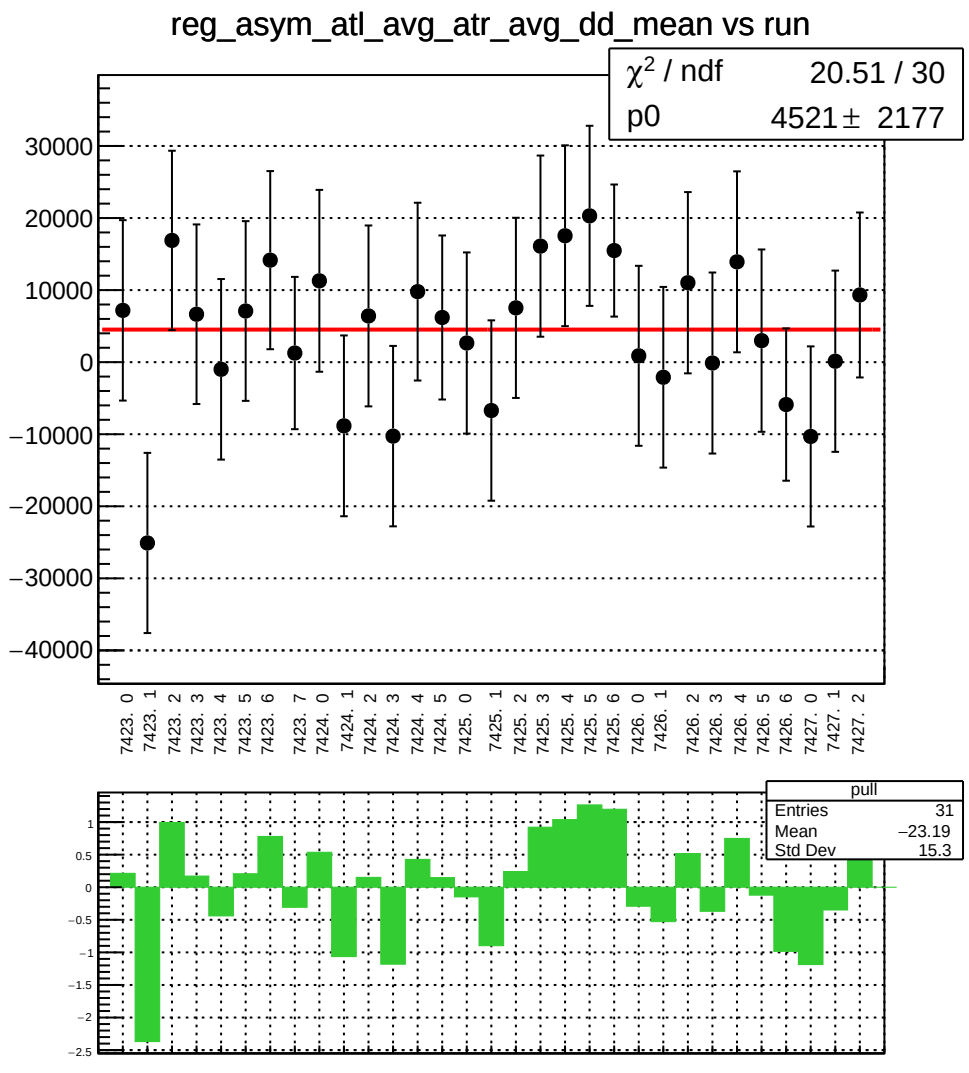

pull1D
Entries 31
Mean 0.007
Std Dev 1.054
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

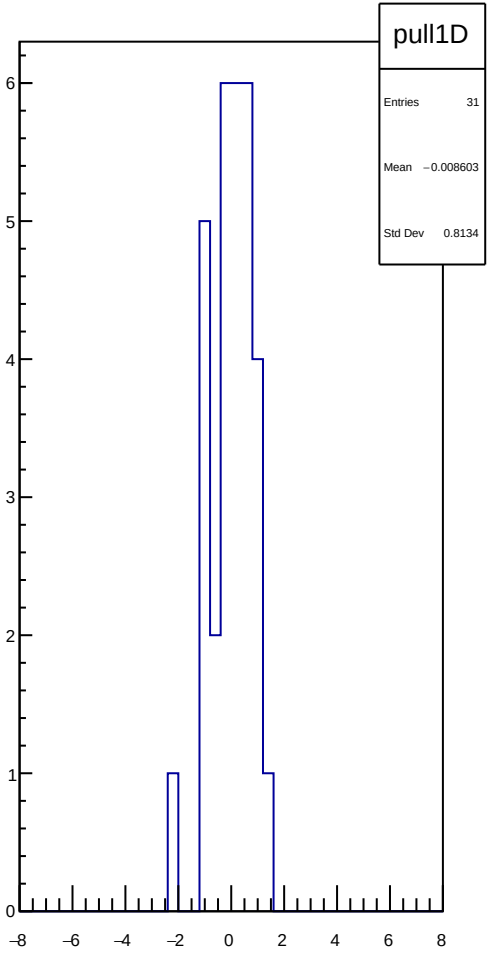

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.579e+04 / 30
p0 363.6 ± 0.4776
700
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

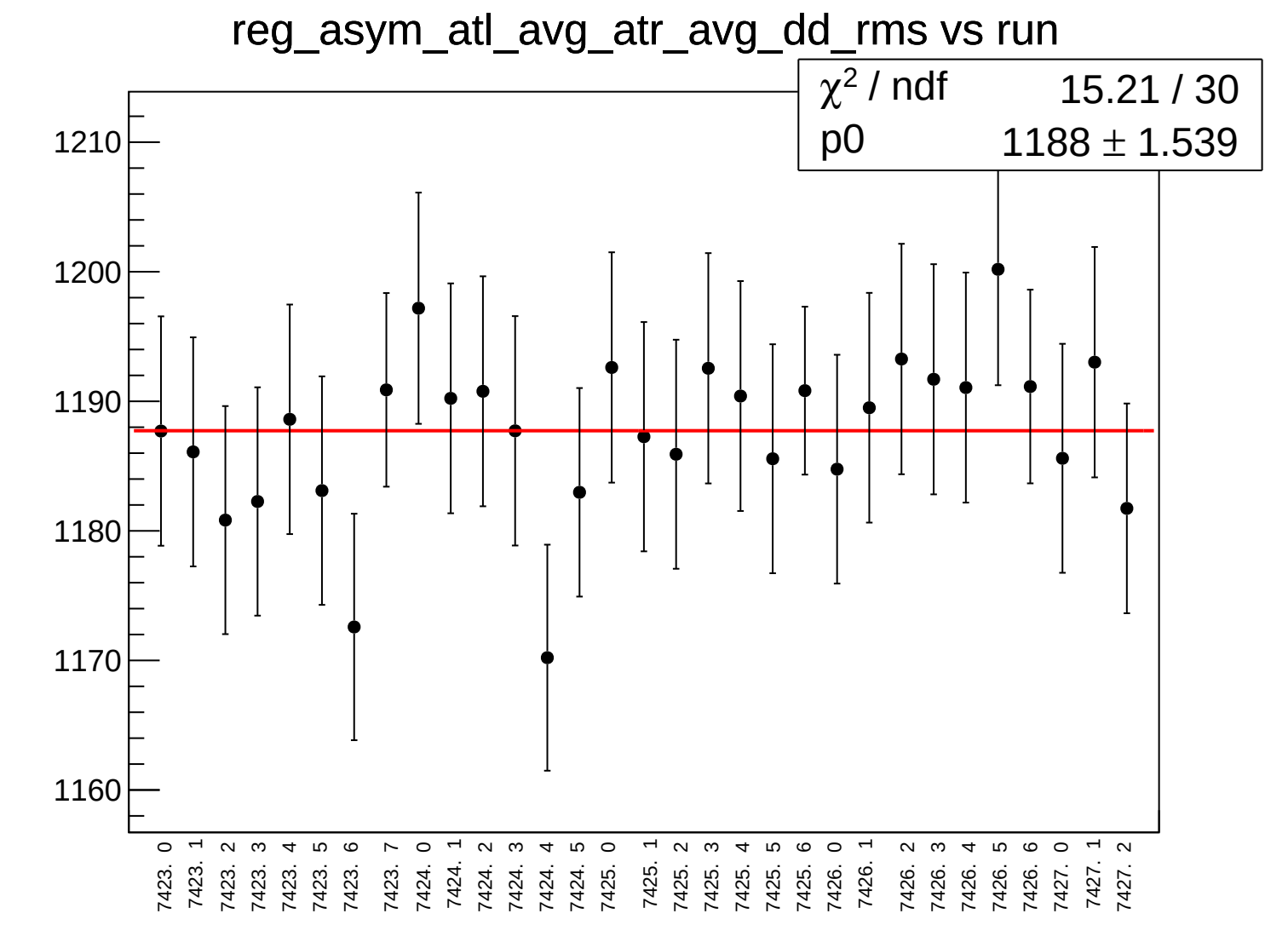

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.88 / 30
p0 −9.858e−14 ± 6.867e−14
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −16.05
Std Dev 0

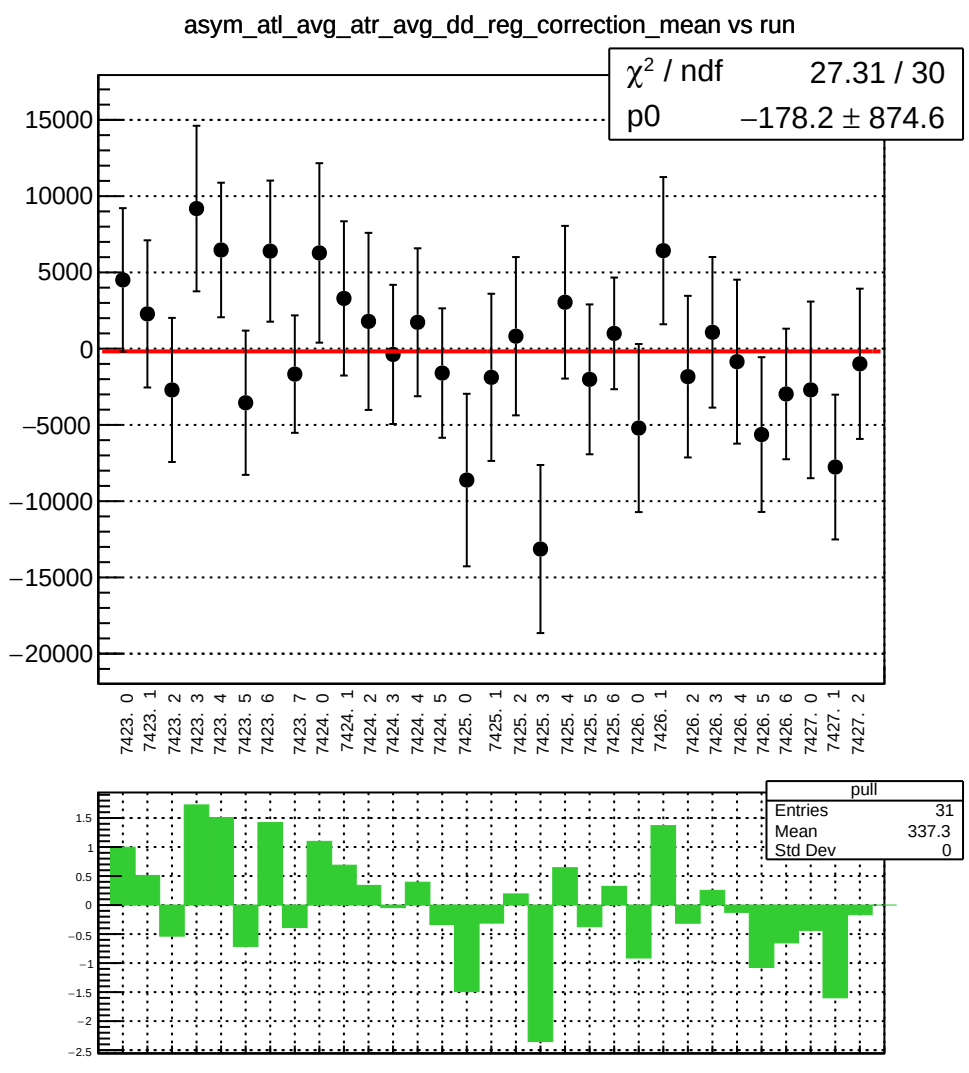

pull1D
Entries 31
Mean 0.1246
Std Dev 1.142

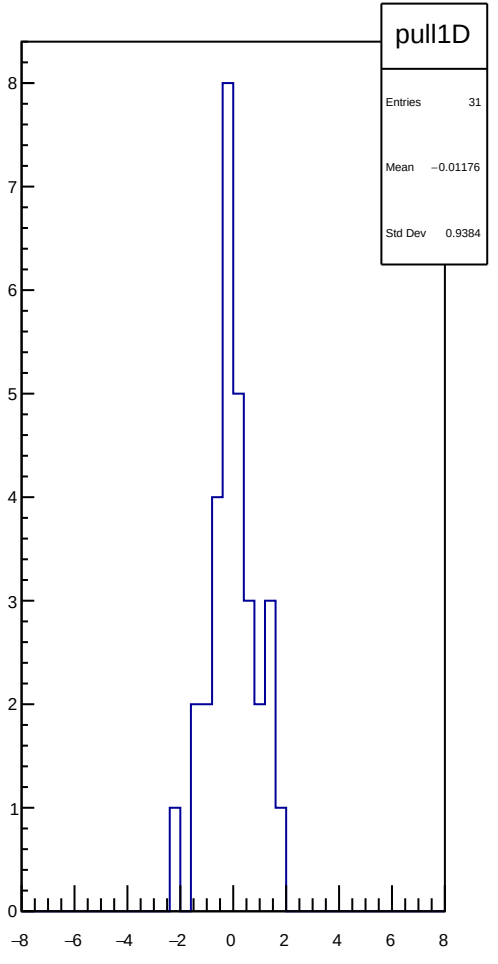

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.333e+05 / 30
p0 3.301e−11 ± 4.856e−14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

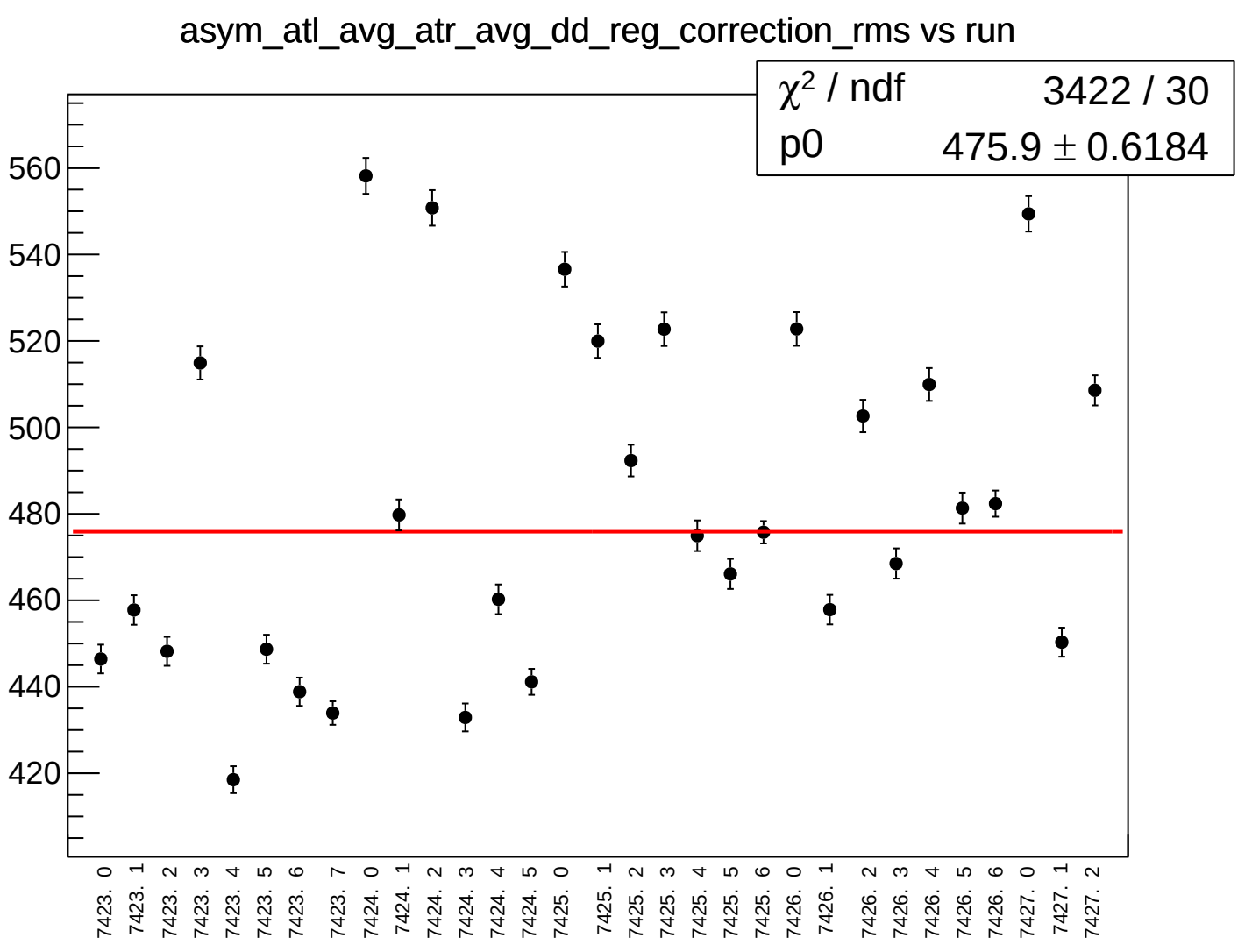

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 20.51 / 30
p0 4521 ± 2177
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −23.19
Std Dev 15.3
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

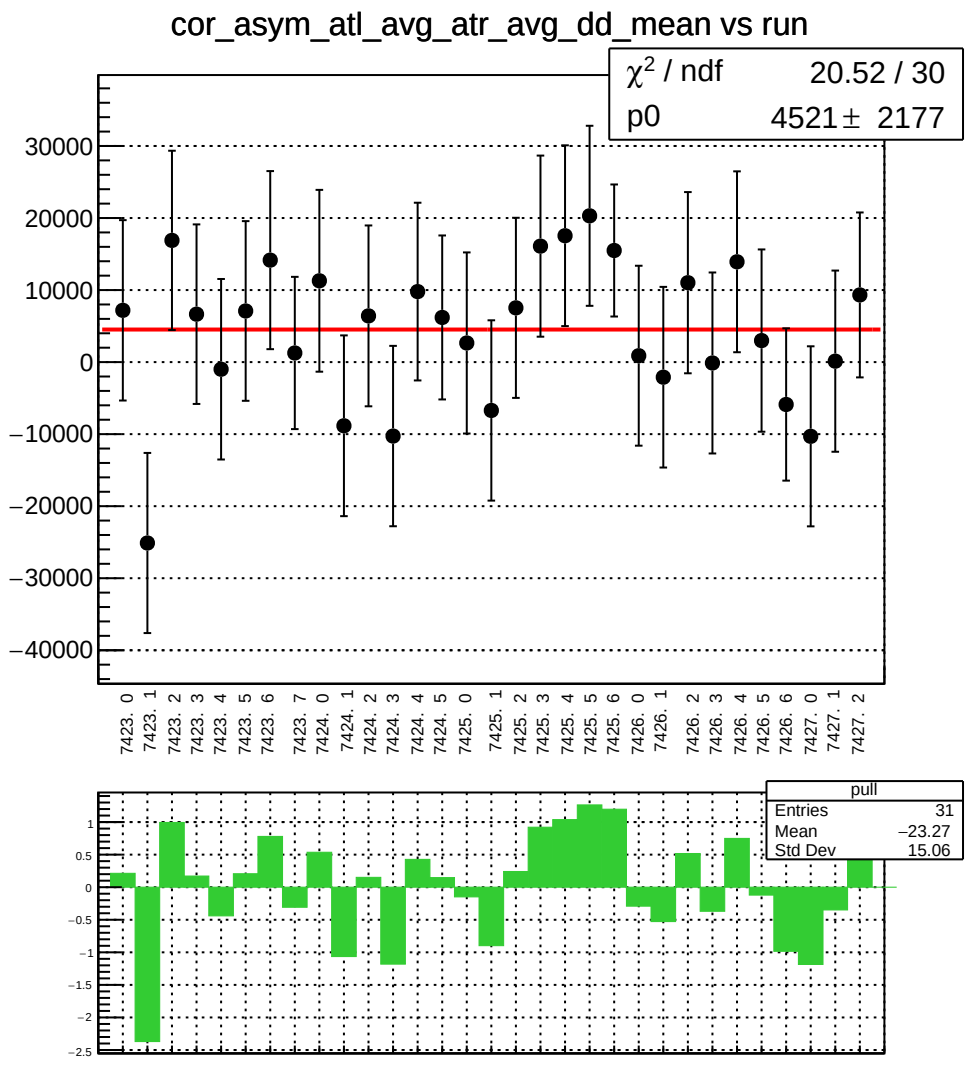

pull1D
Entries 31
Mean −0.008603
Std Dev 0.8134
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

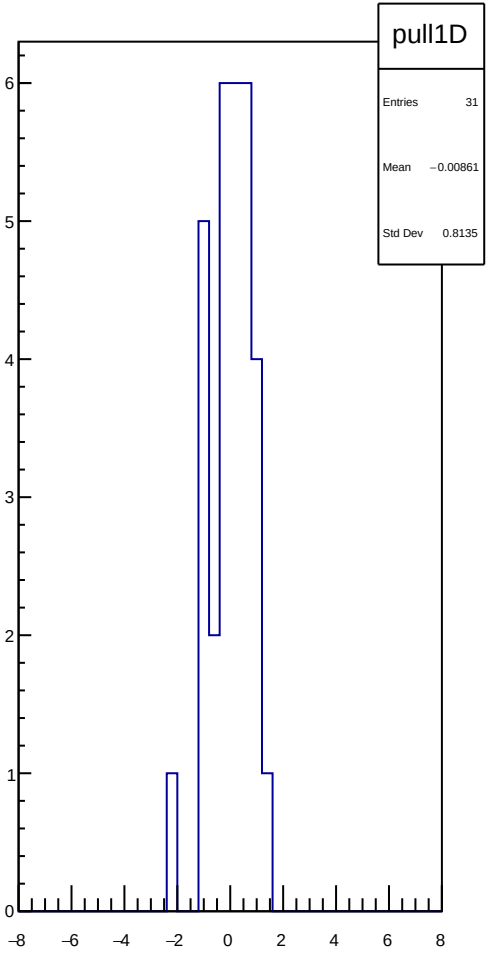

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 15.21 / 30
p0 1188 ± 1.539
1210
1200
1190
1180
1170
1160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

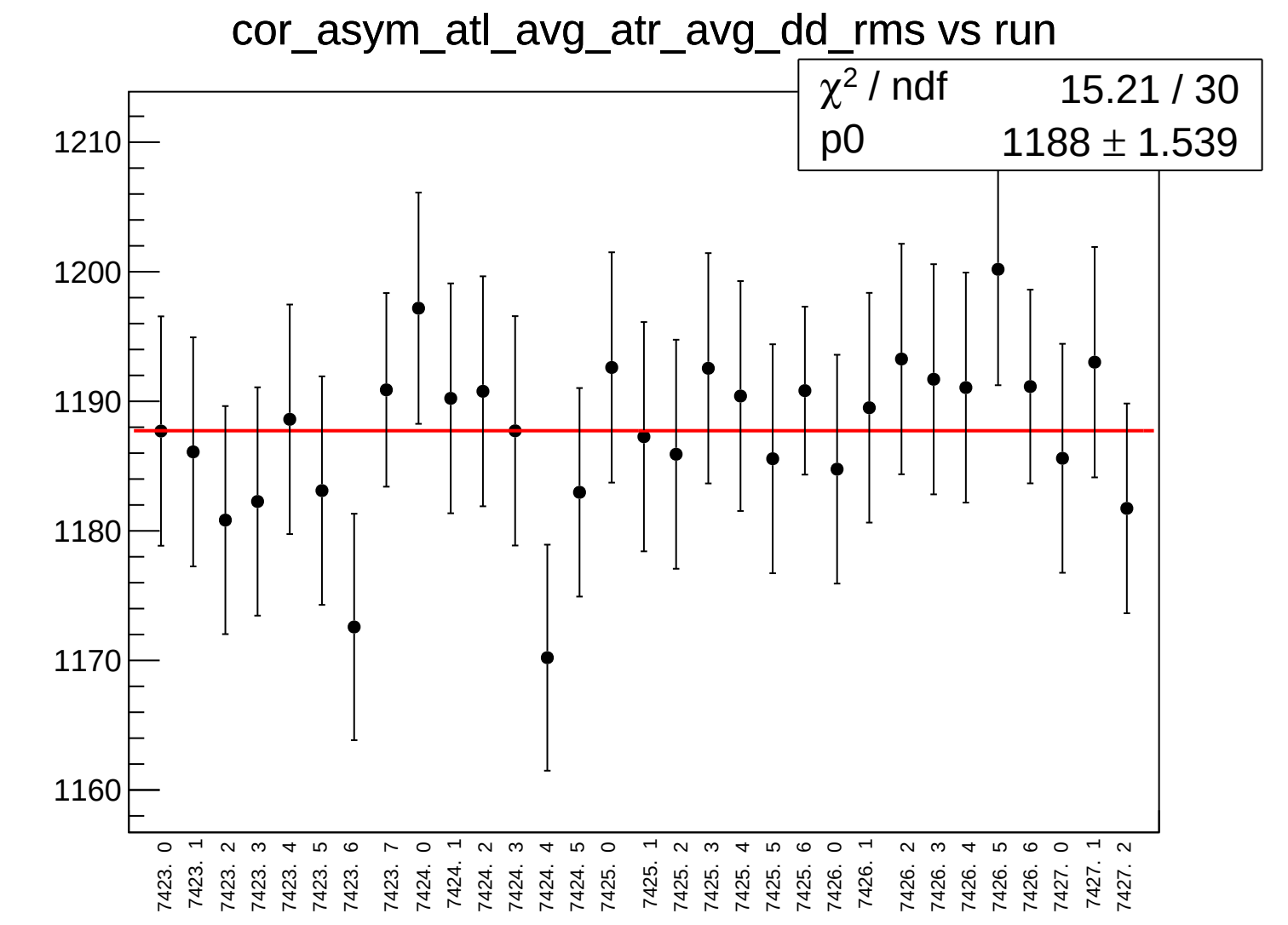

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 27.31 / 30
p0 −178.2 ± 874.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 337.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

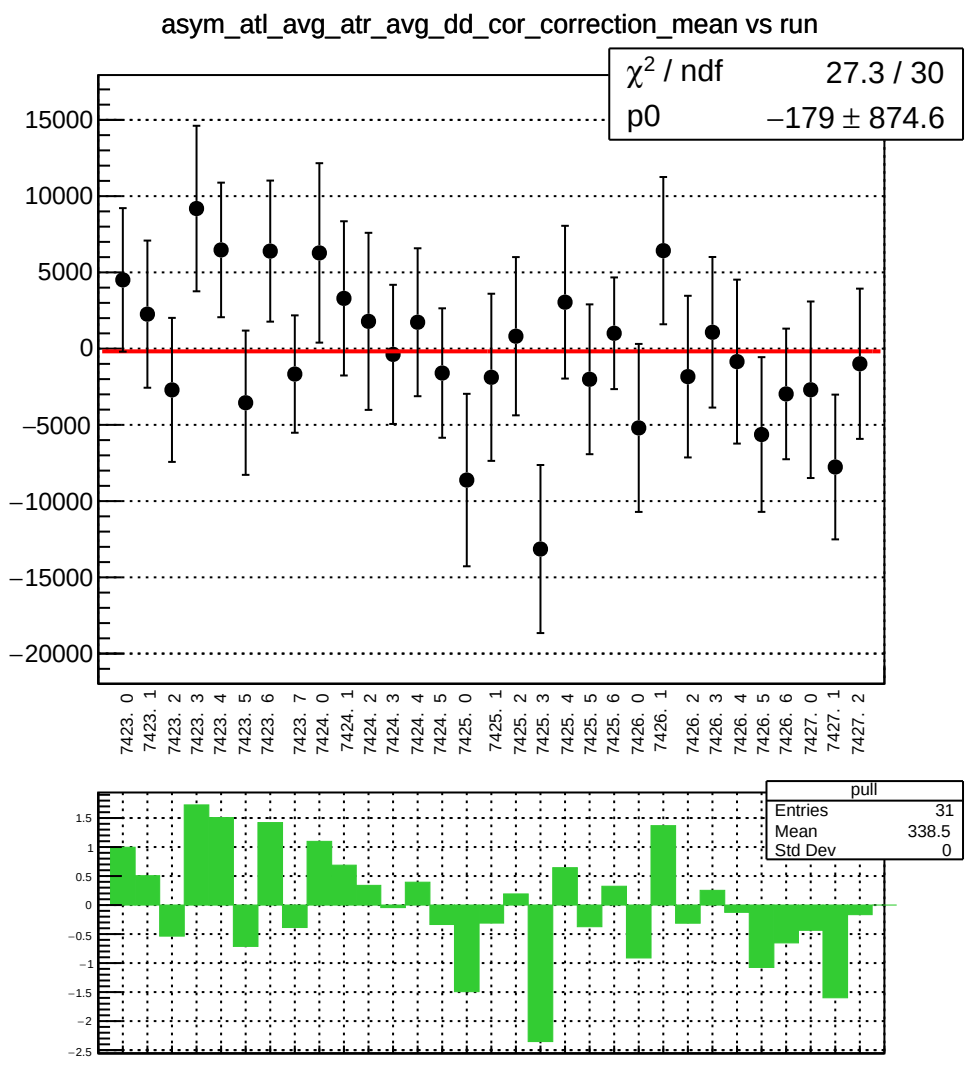

pull1D
Entries 31
Mean −0.01176
Std Dev 0.9384
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

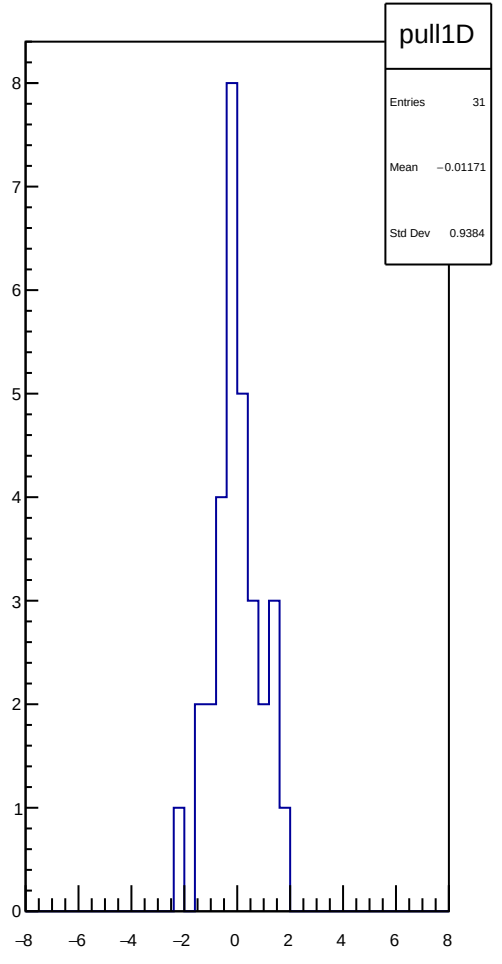

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 3422 / 30
p0 475.9 ± 0.6184
560
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

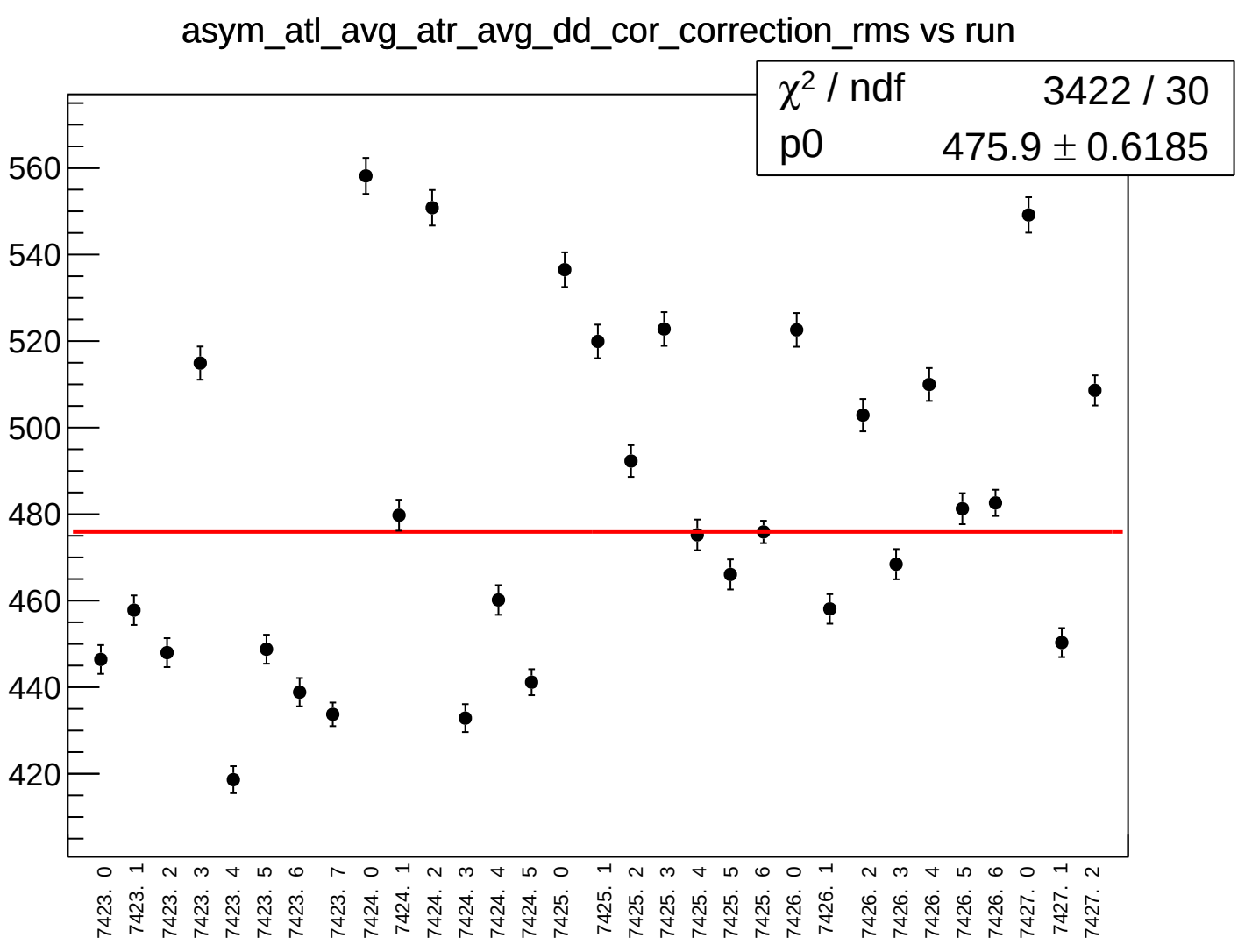

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 20.52 / 30
p0 4521 ± 2177
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −23.27
Std Dev 15.06
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

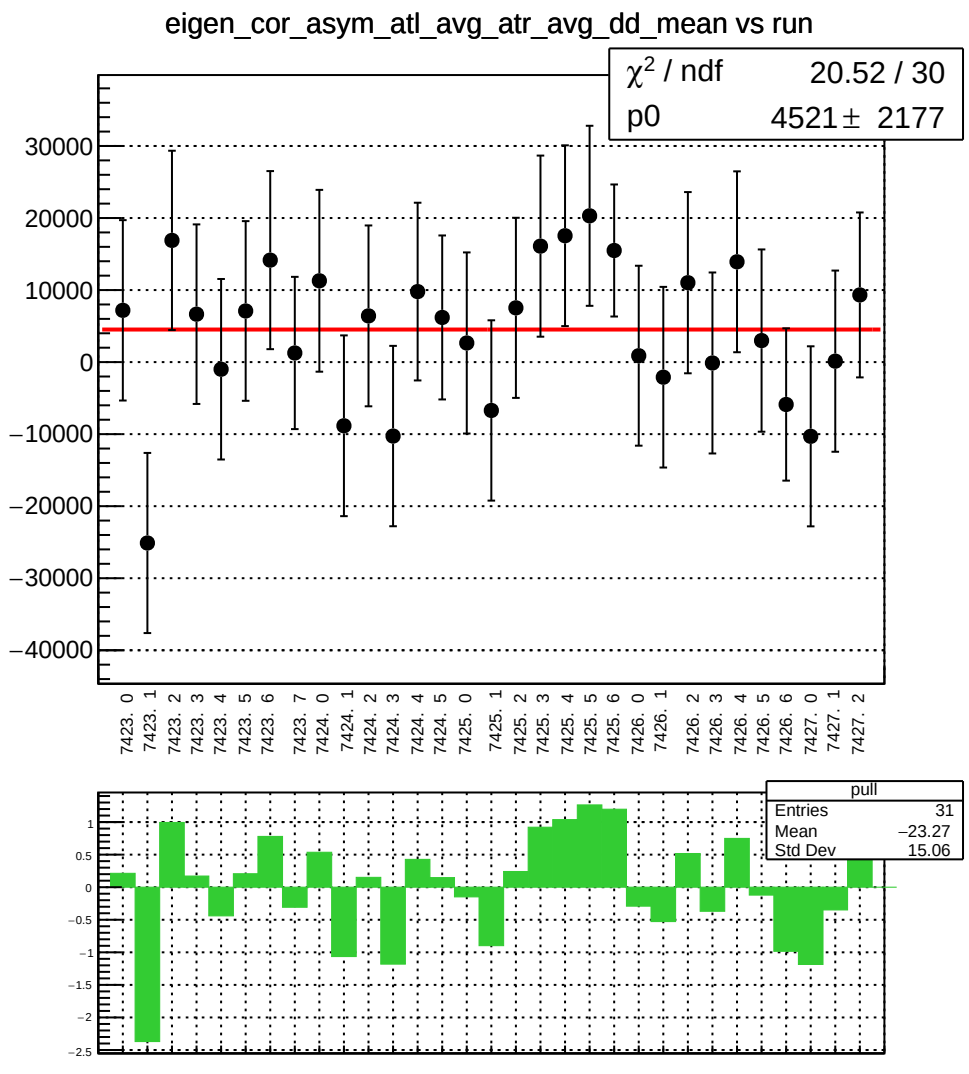

pull1D
Entries 31
Mean −0.00861
Std Dev 0.8135
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

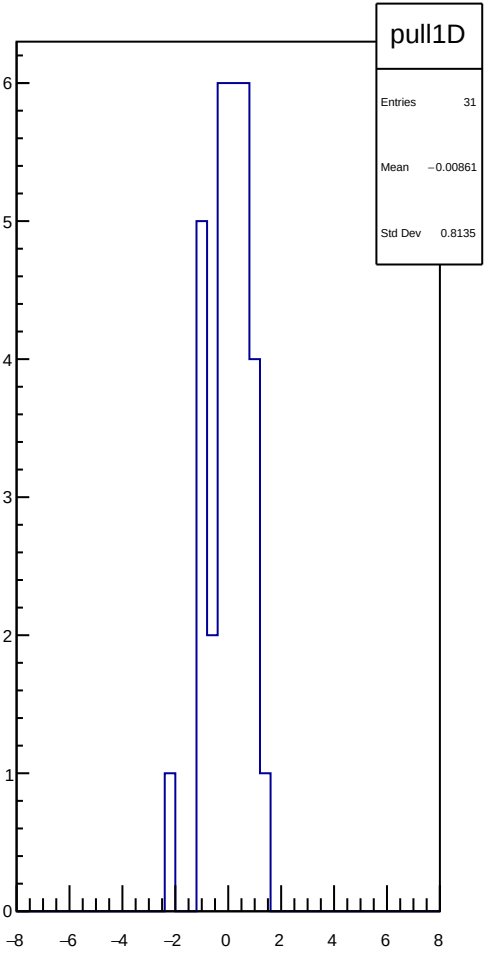

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 15.21 / 30
p0 1188 ± 1.539
1210
1200
1190
1180
1170
1160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

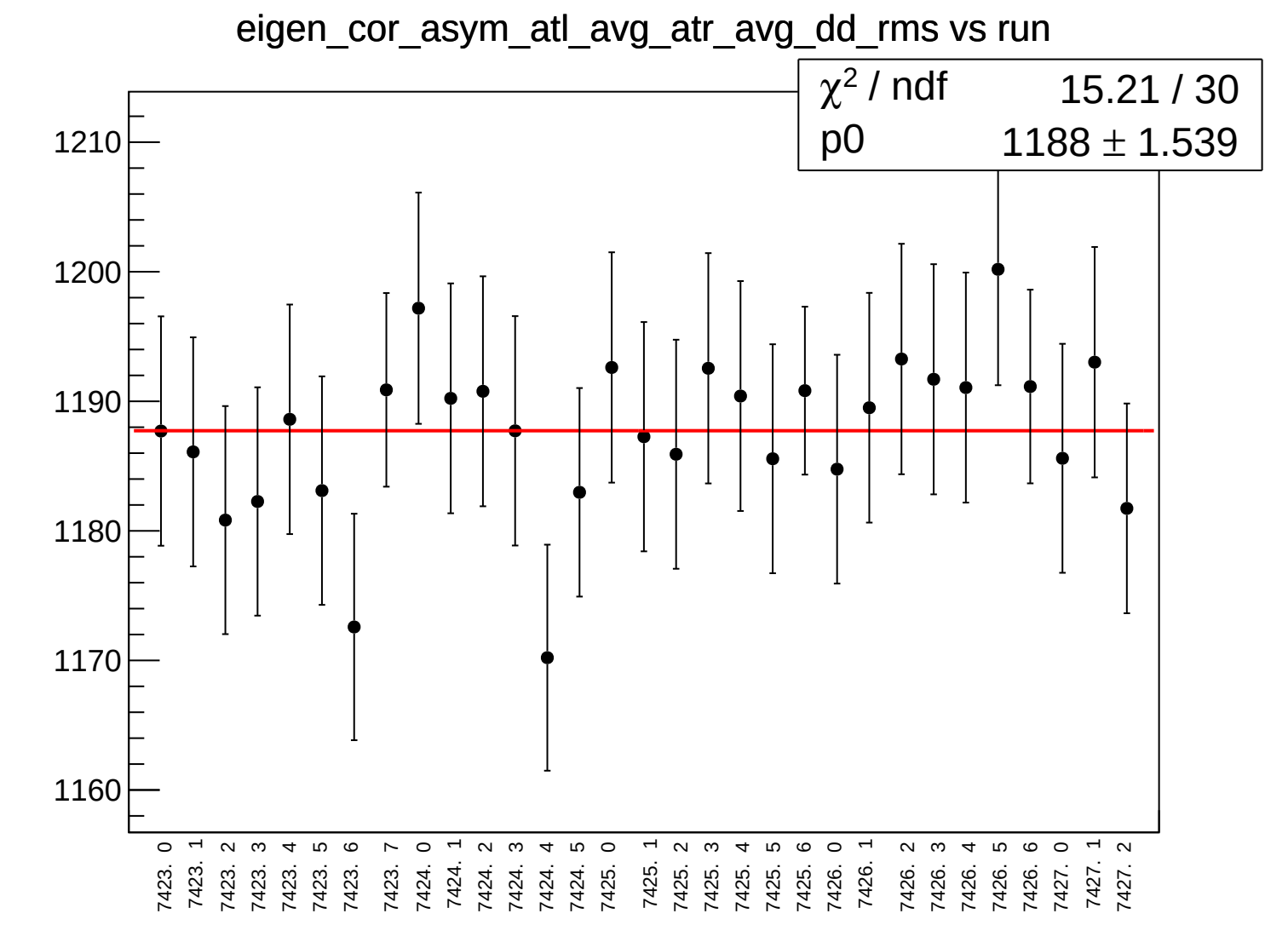

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 27.3 / 30
p0 −179 ± 874.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 338.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

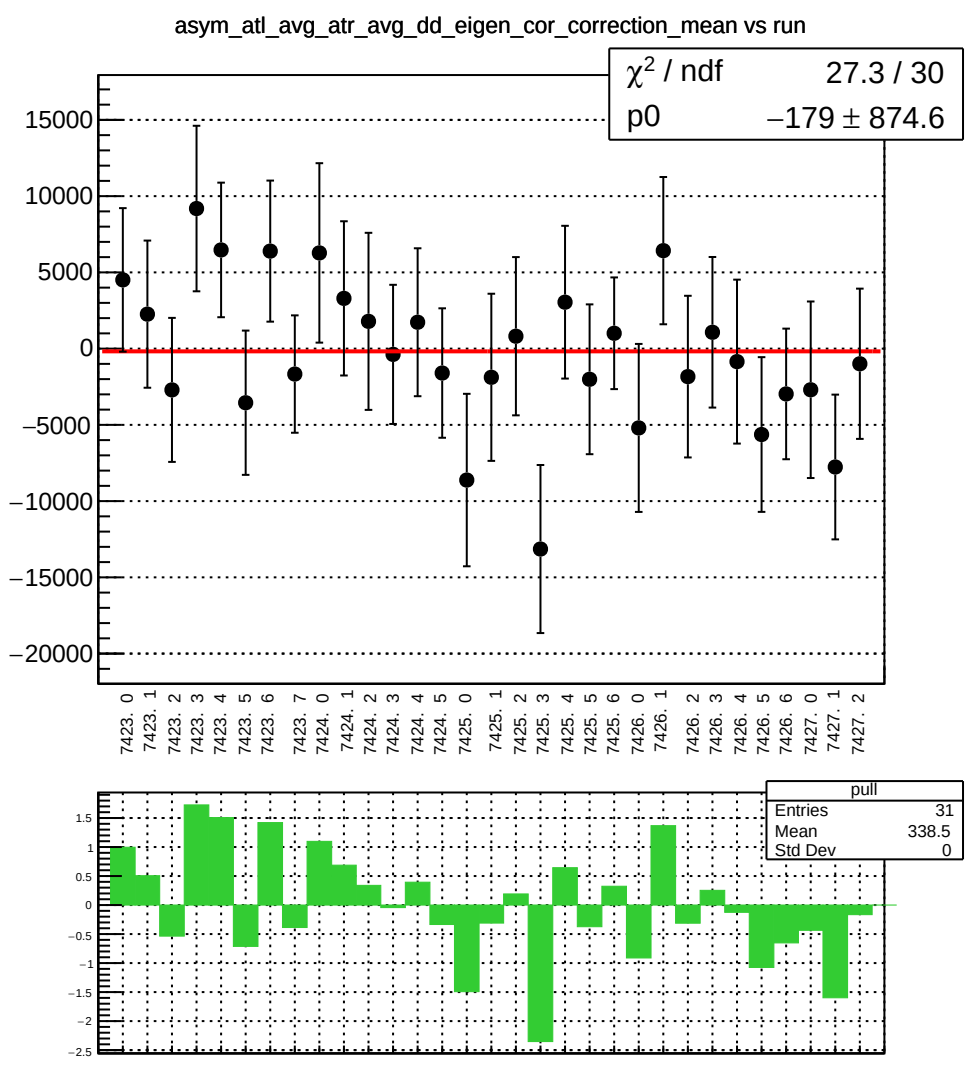

pull1D
Entries 31
Mean −0.01171
Std Dev 0.9384
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

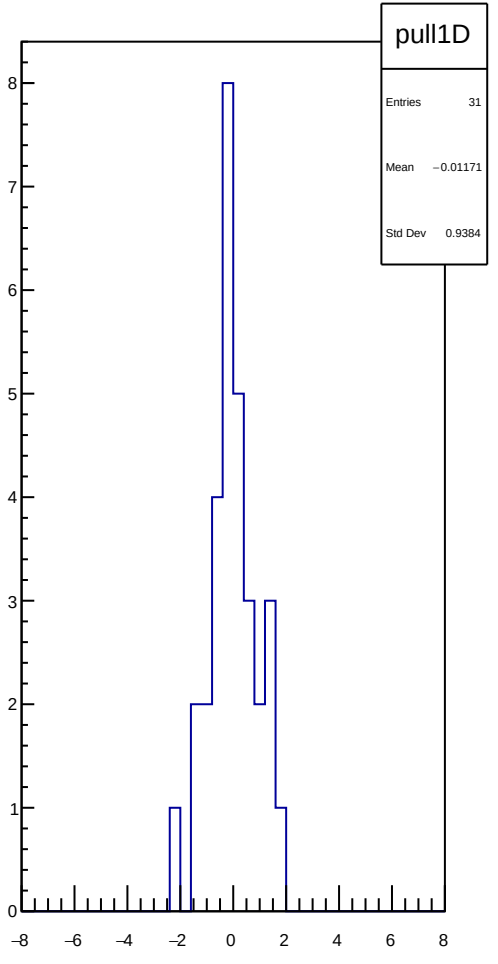

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 3422 / 30
p0 475.9 ± 0.6185
560
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

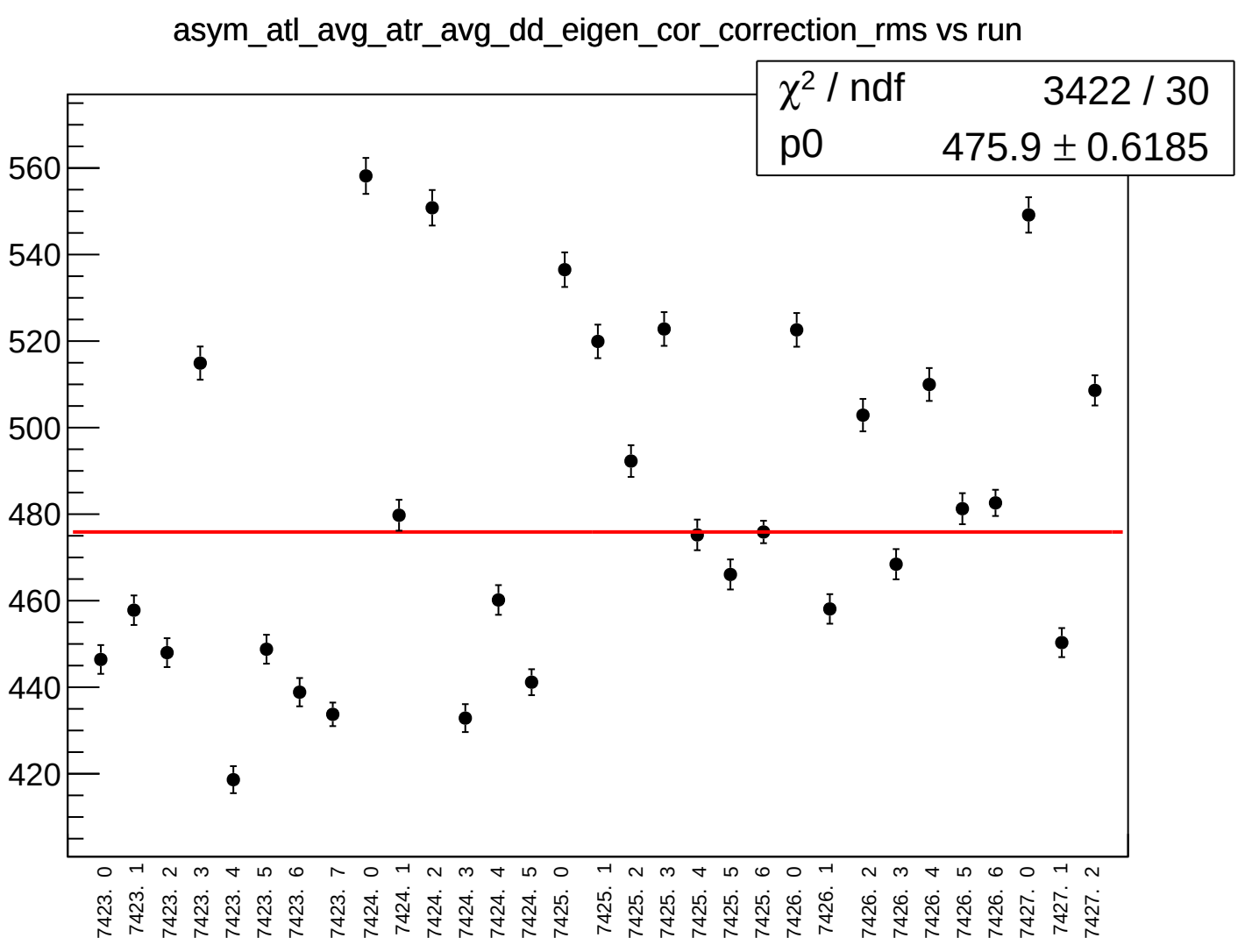

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 20.52 / 30
p0 4521 ± 2177
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −23.27
Std Dev 15.06
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

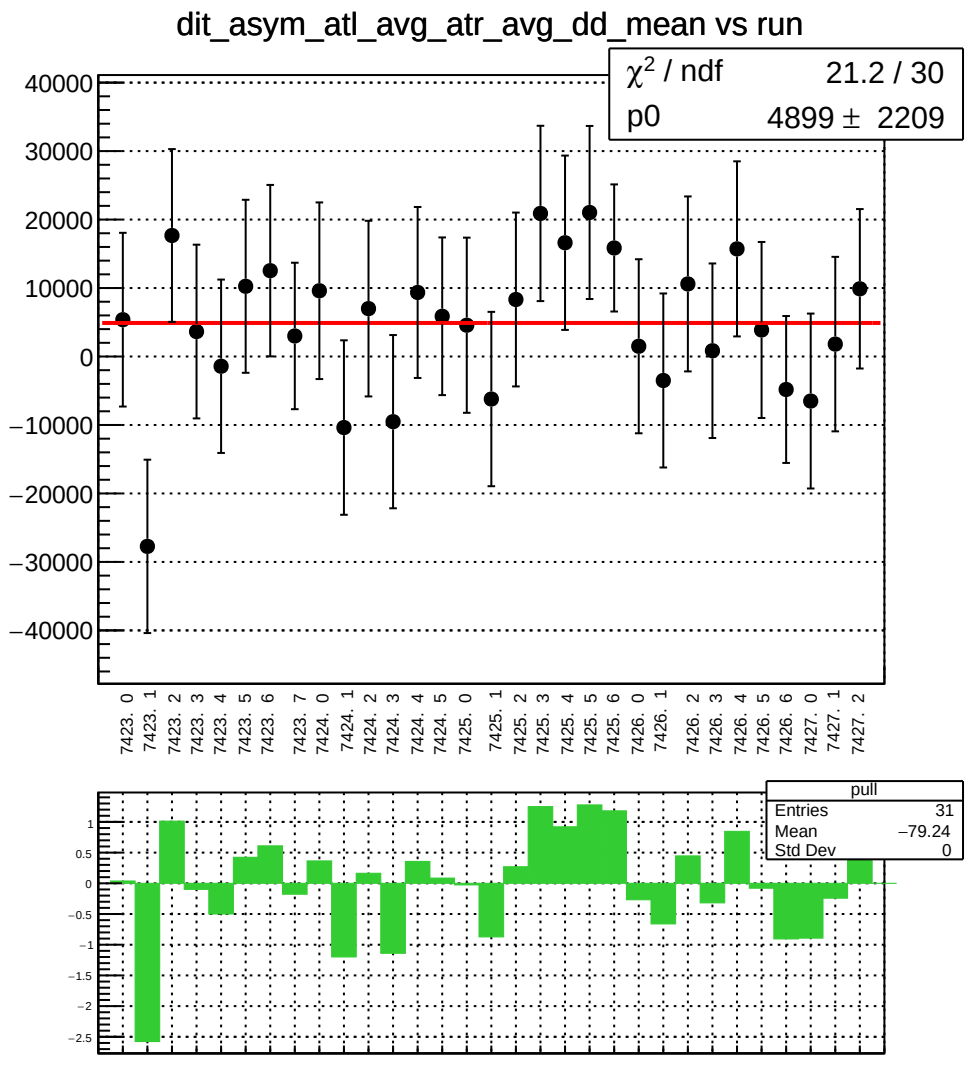

pull1D
Entries 31
Mean −0.00861
Std Dev 0.8135
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

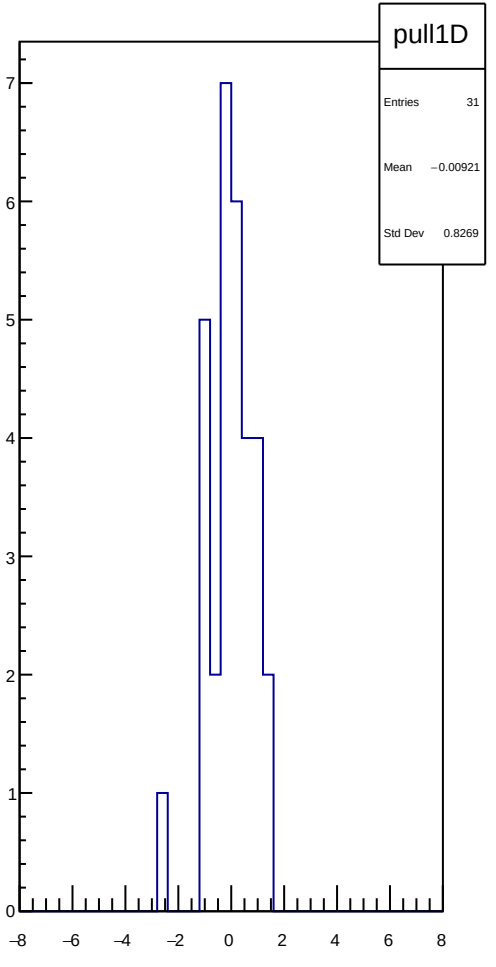

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 15.21 / 30
p0 1188 ± 1.539
1210
1200
1190
1180
1170
1160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

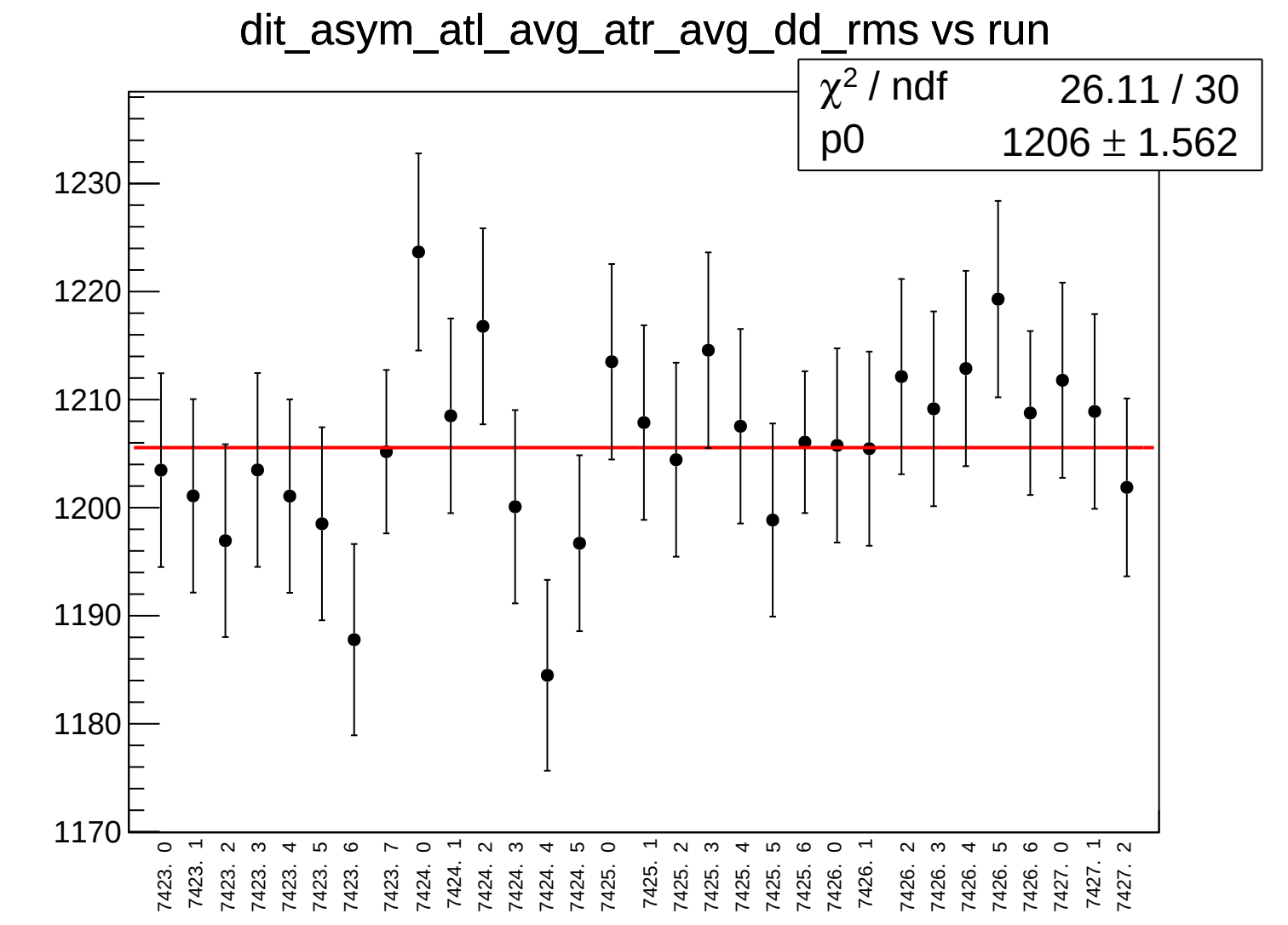

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 27.3 / 30
p0 −179 ± 874.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 338.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

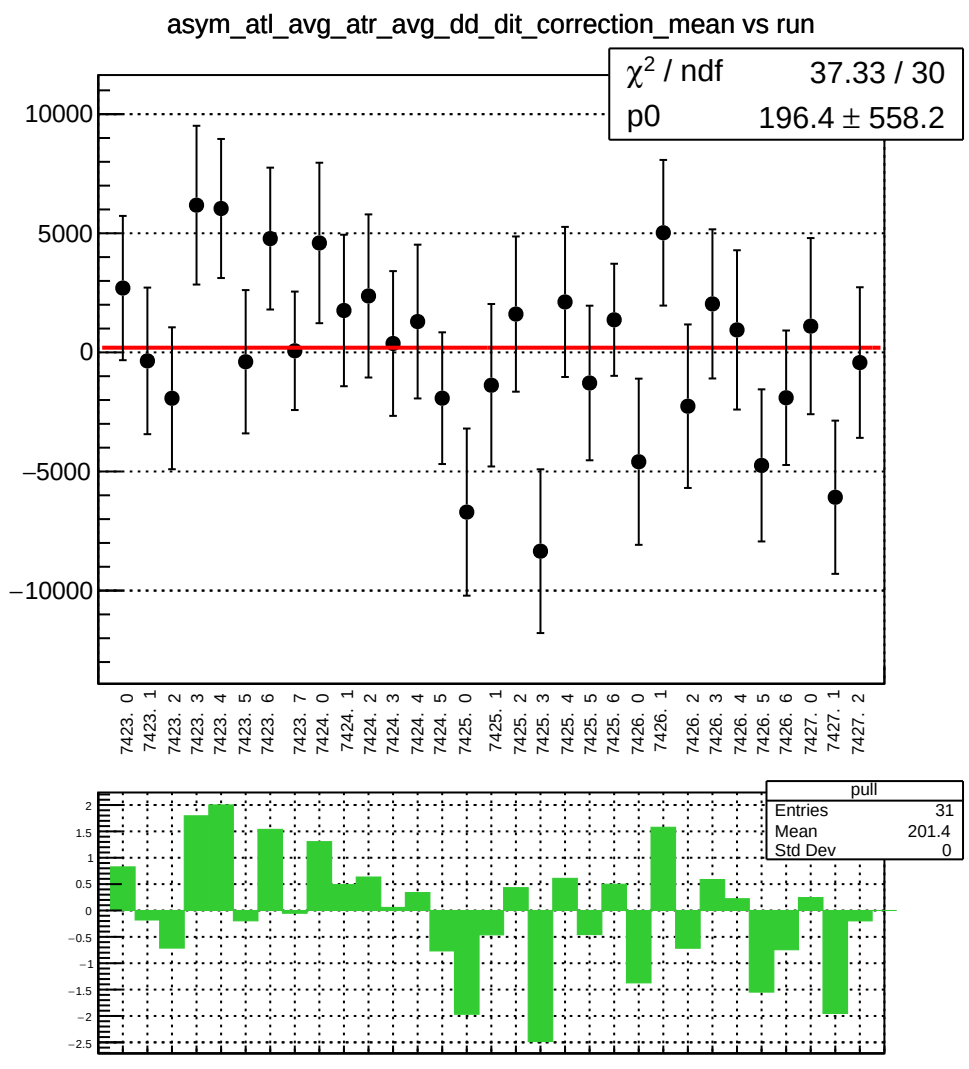

pull1D
Entries 31
Mean −0.01171
Std Dev 0.9384
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

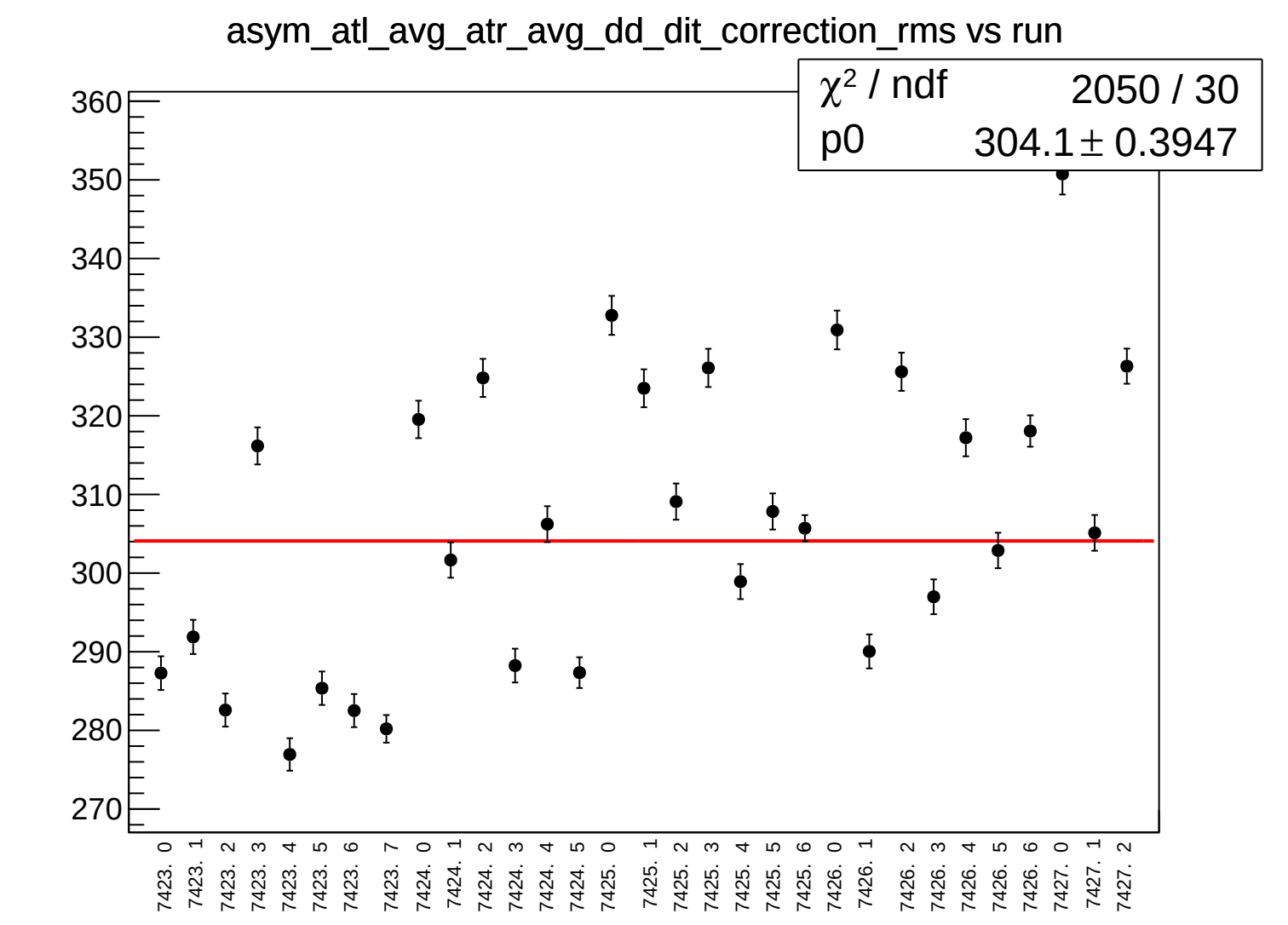

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3422 / 30
p0 475.9 ± 0.6185
560
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

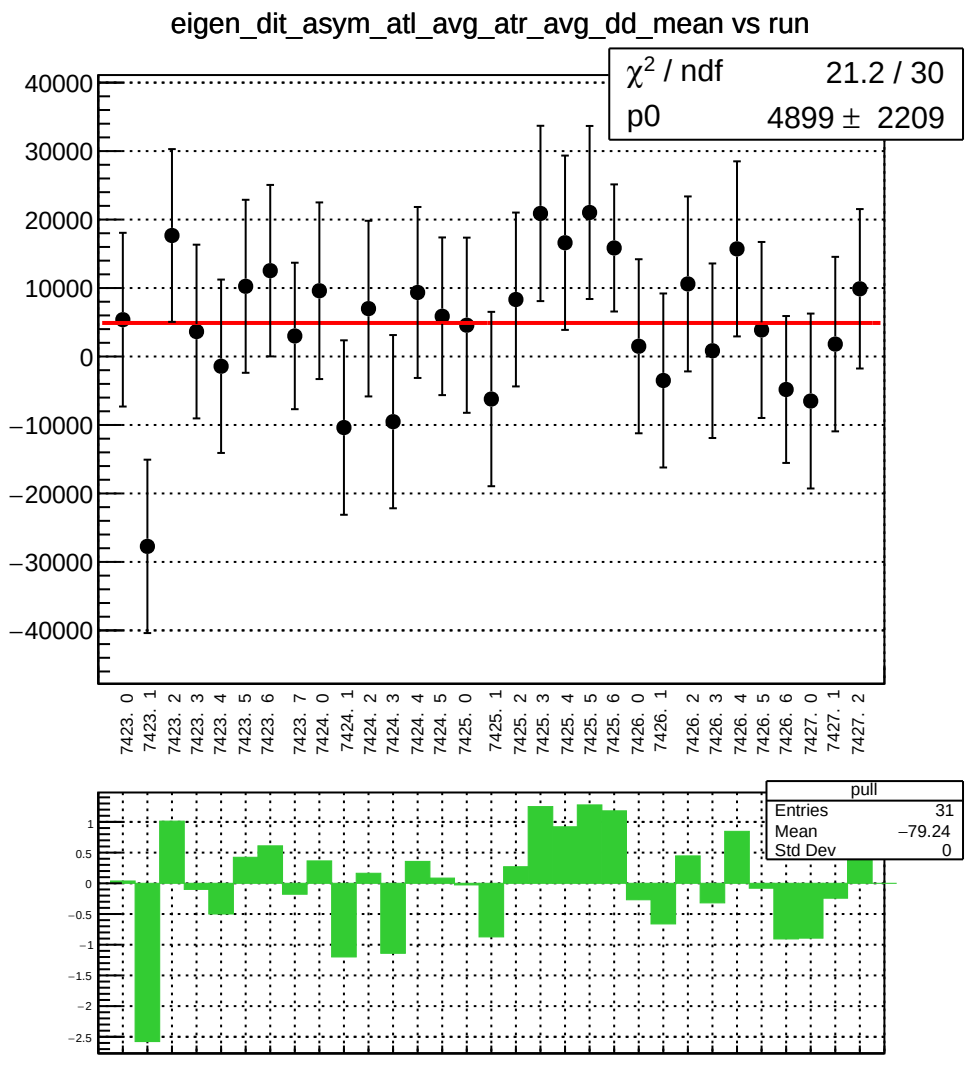

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 21.2 / 30
p0 4899 ± 2209
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −79.24
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

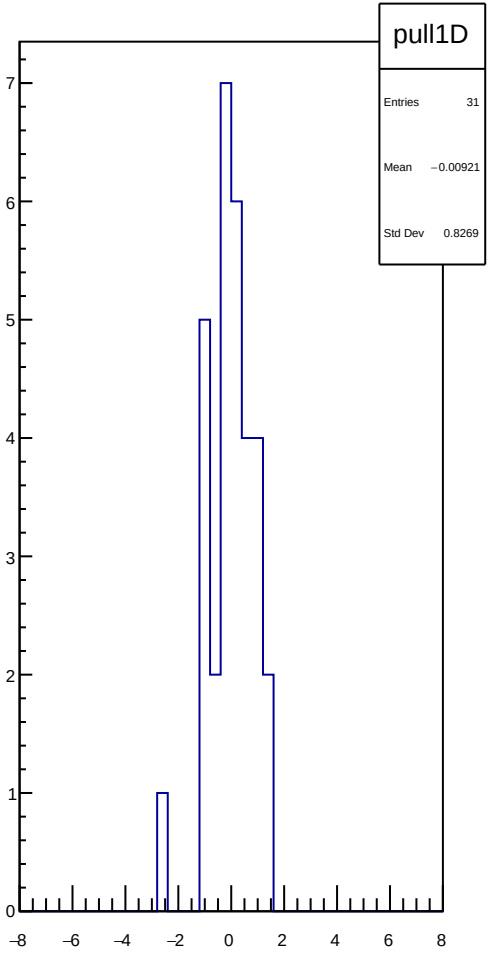

pull1D
Entries 31
Mean −0.00921
Std Dev 0.8269
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

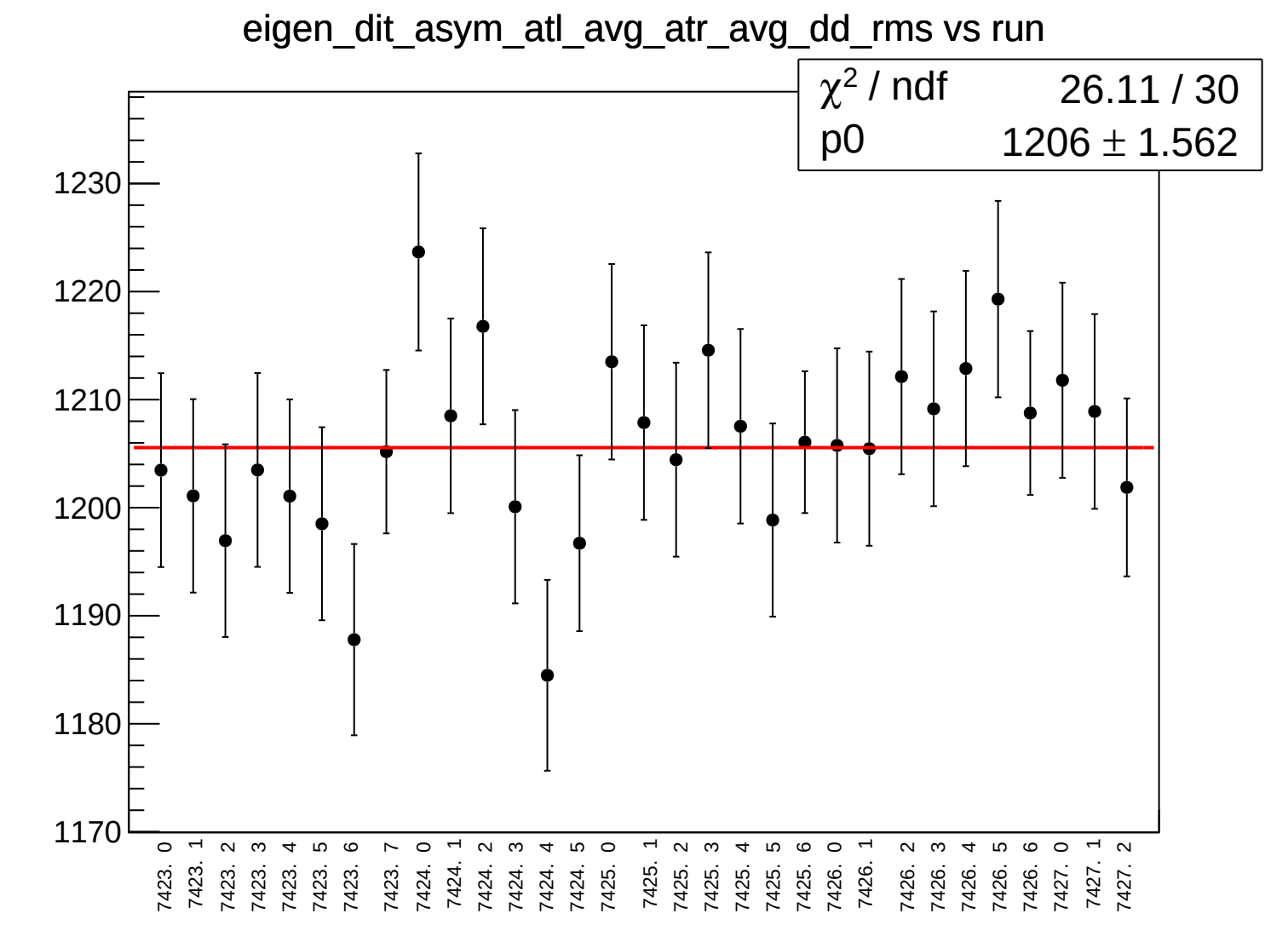

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 26.11 / 30
p0 1206 ± 1.562
1230
1220
1210
1200
1190
1180
1170
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

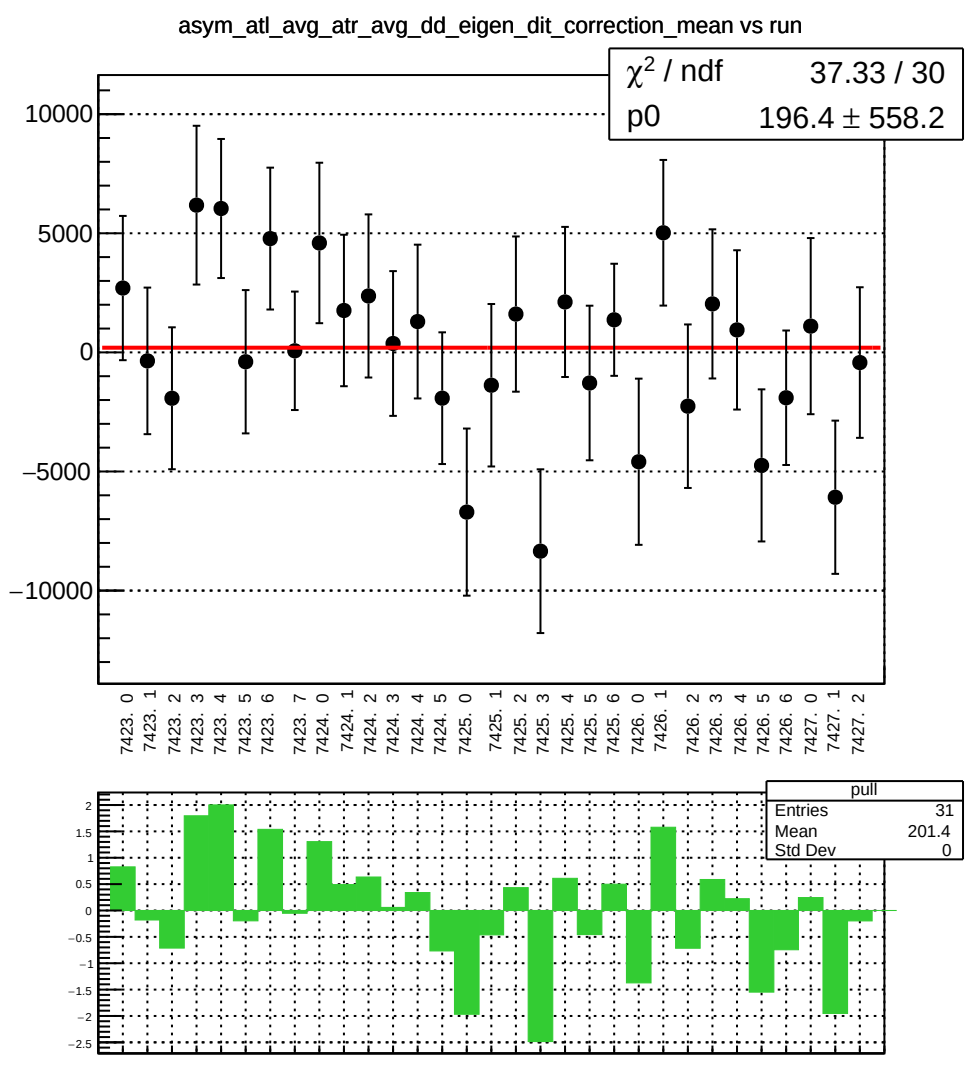

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 37.33 / 30
p0 196.4 ± 558.2
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 201.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.02068
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

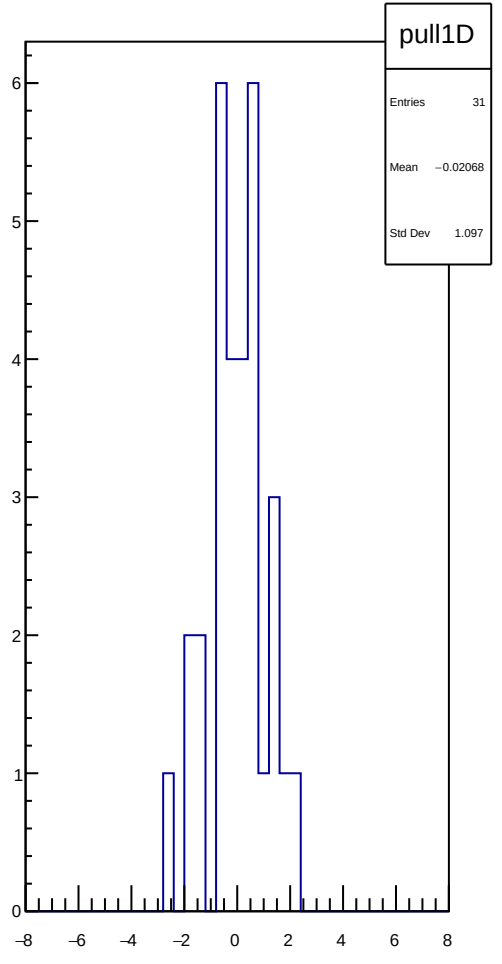

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2050 / 30
p0 304.1 ± 0.3947
360
350
340
330
320
310
300
290
280
270
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

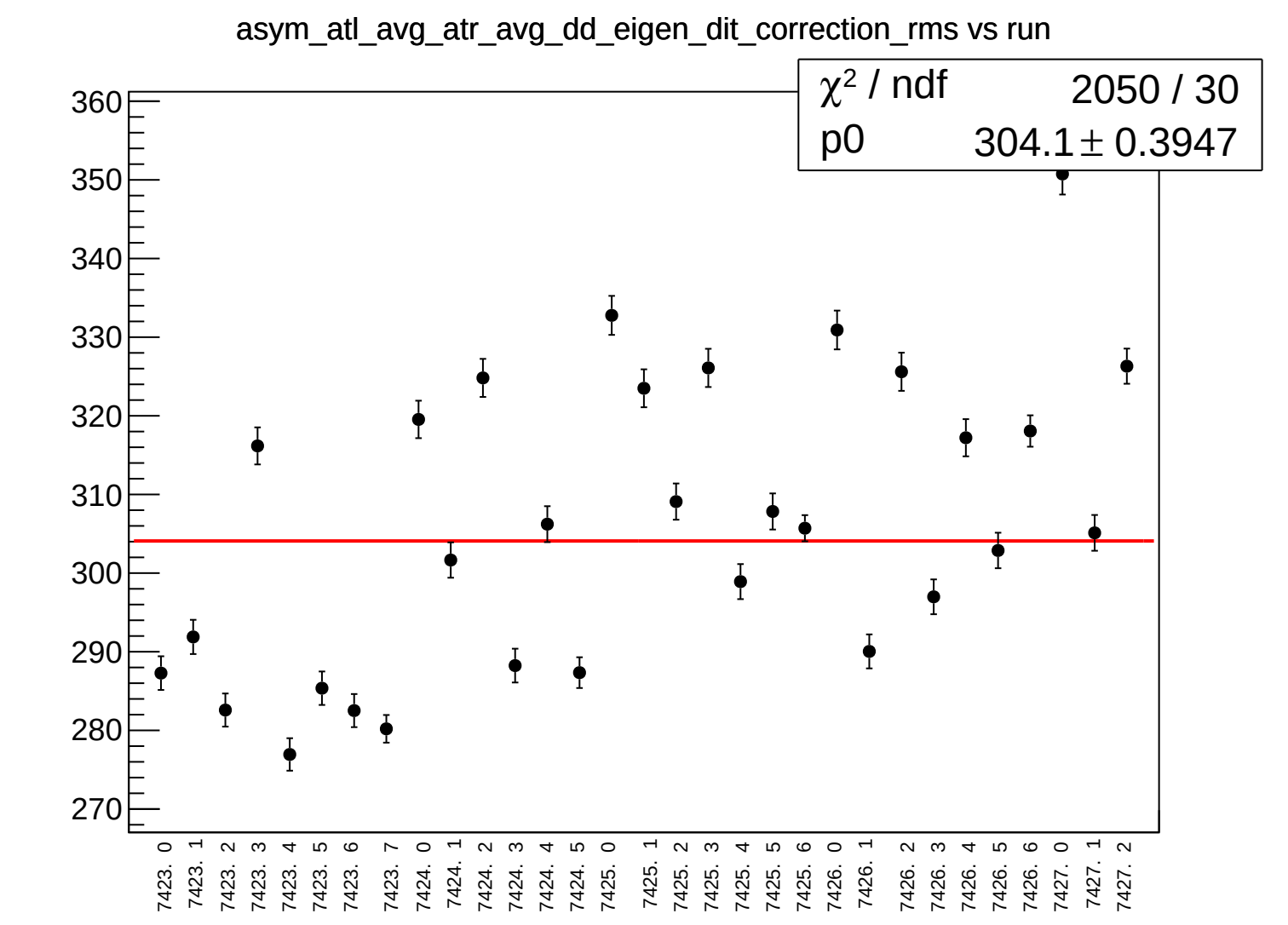

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 21.2 / 30
p0 4899 ± 2209
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −79.24
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

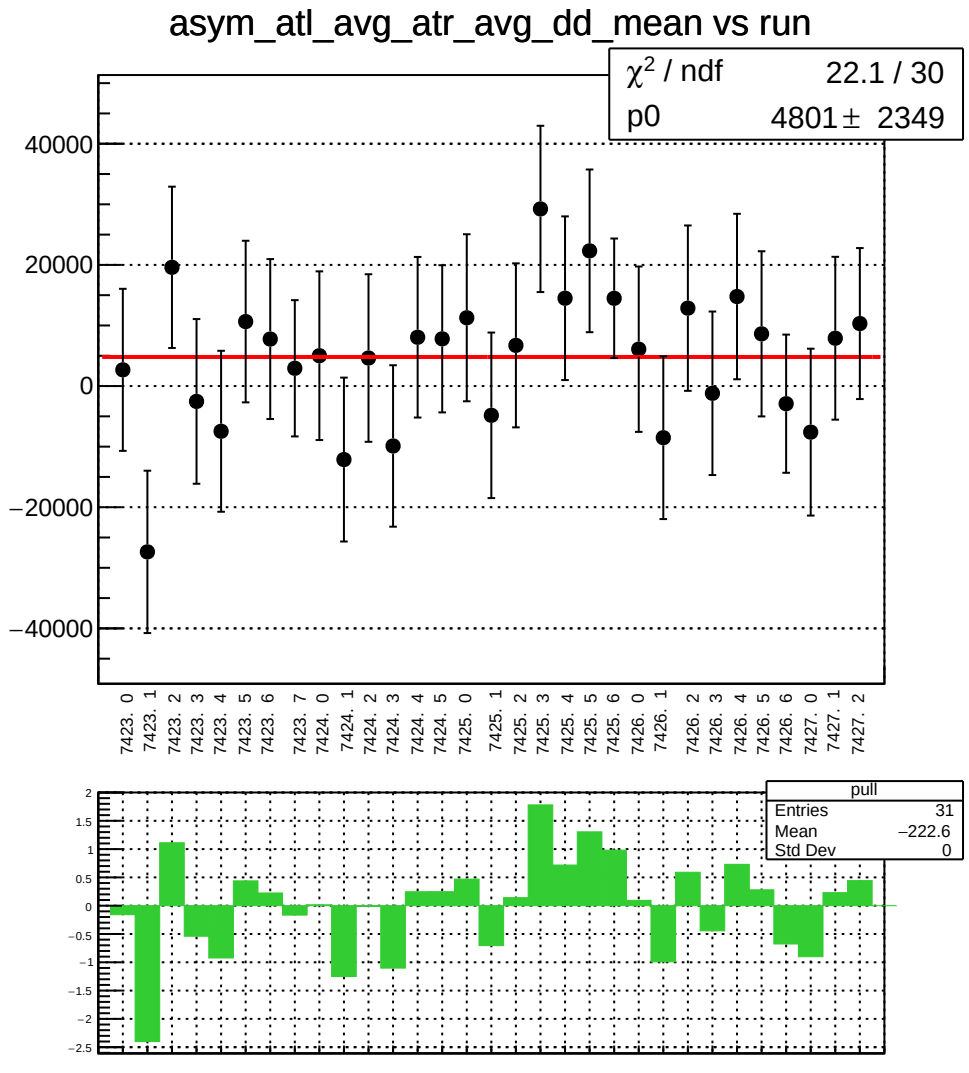

pull1D
Entries 31
Mean −0.00921
Std Dev 0.8269
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

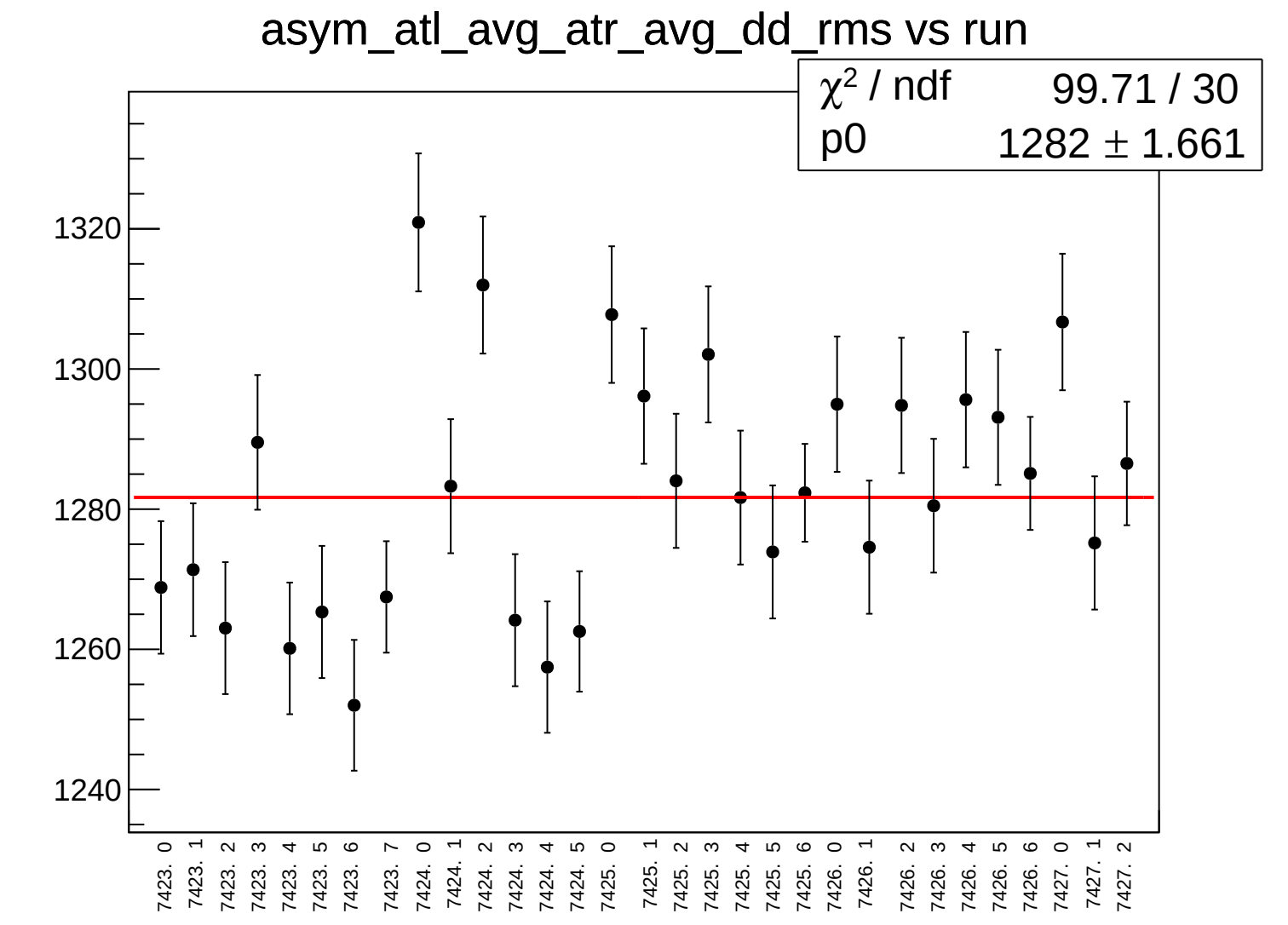

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 26.11 / 30
p0 1206 ± 1.562
1230
1220
1210
1200
1190
1180
1170
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 37.33 / 30
p0 196.4 ± 558.2
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 201.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

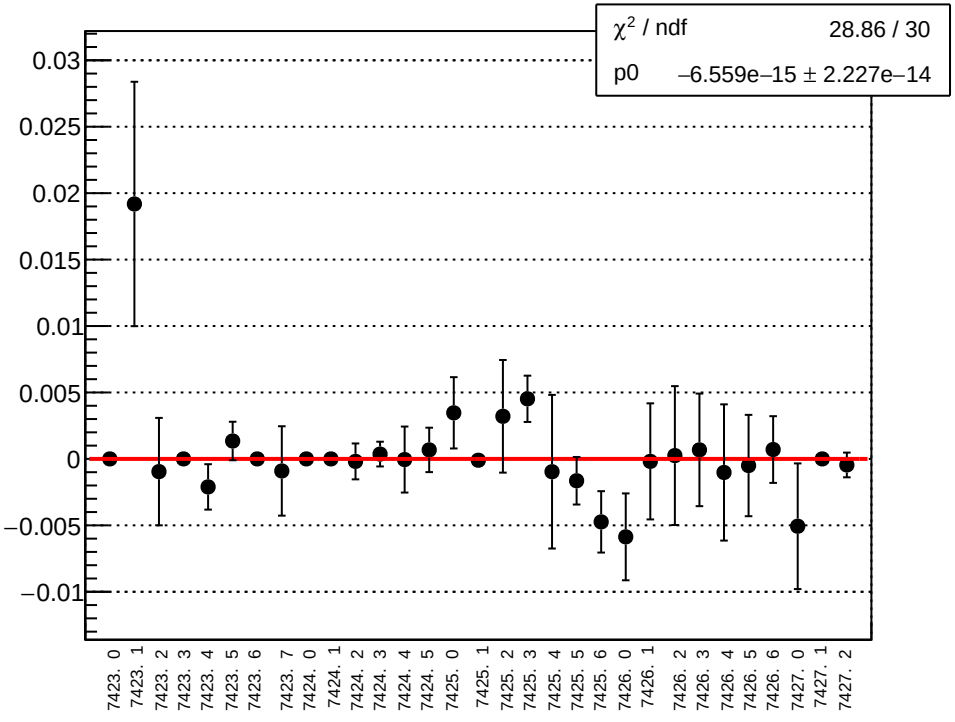

pull1D
Entries 31
Mean −0.02068
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

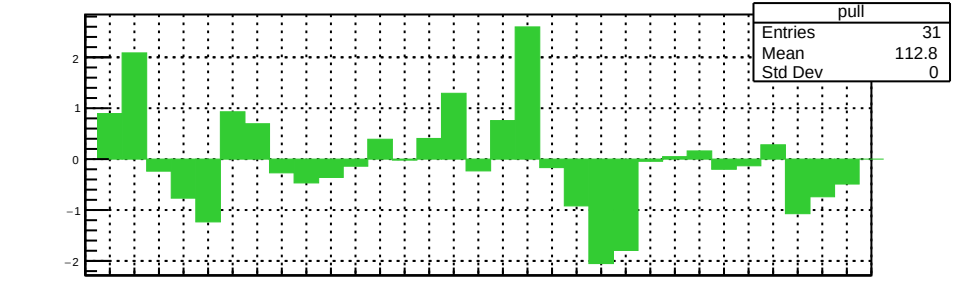

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2050 / 30
p0 304.1 ± 0.3947
360
350
340
330
320
310
300
290
280
270
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

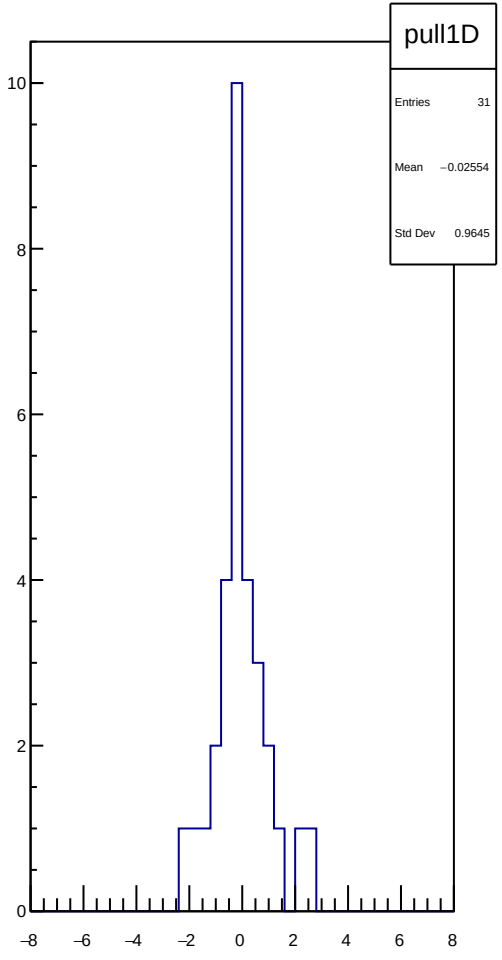

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 22.1 / 30
p0 4801 ± 2349
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −222.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.007321
Std Dev 0.8443
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

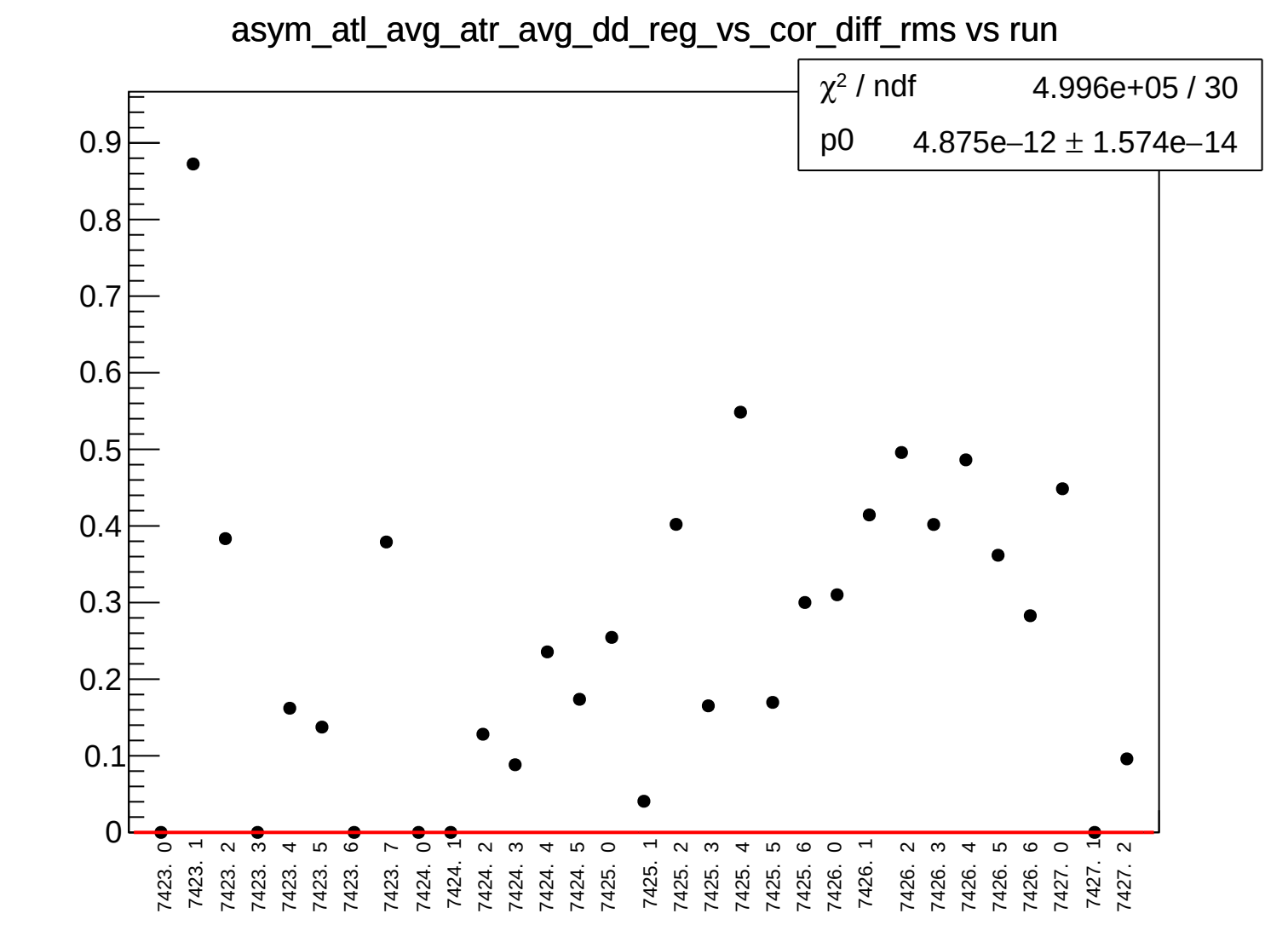

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 99.71 / 30
p0 1282 ± 1.661
1320
1300
1280
1260
1240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run

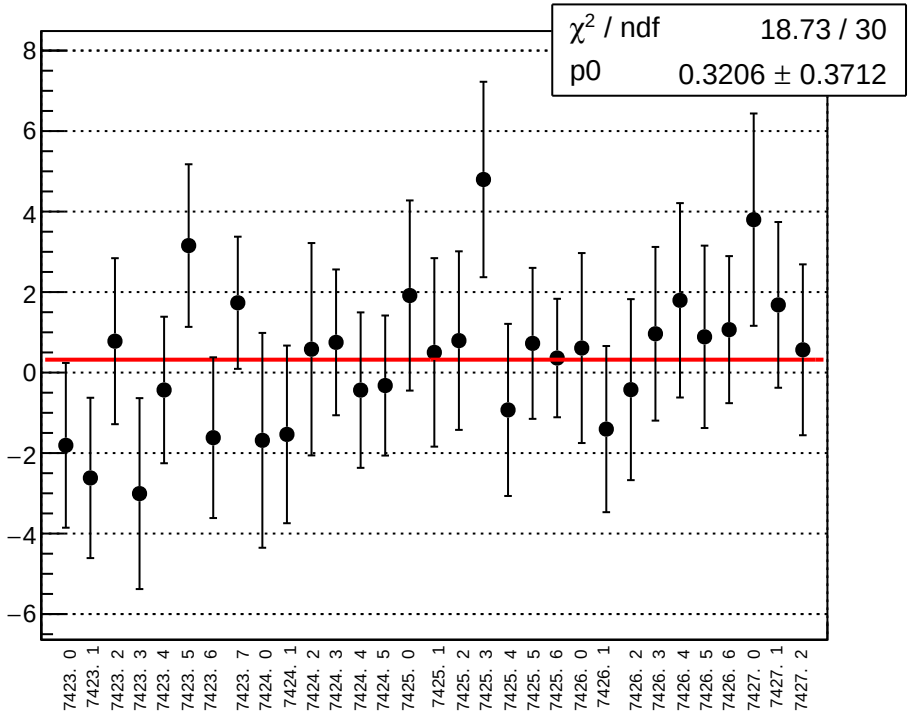


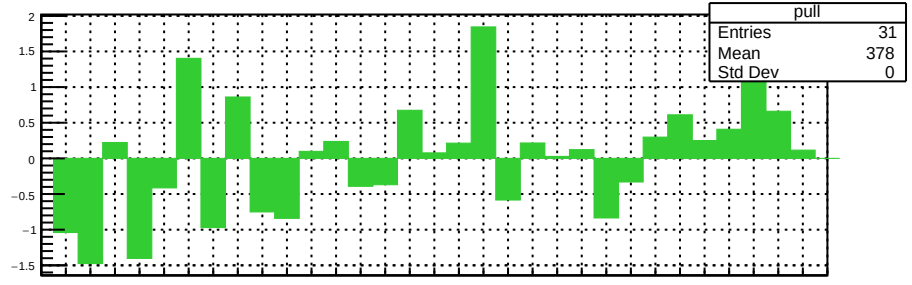


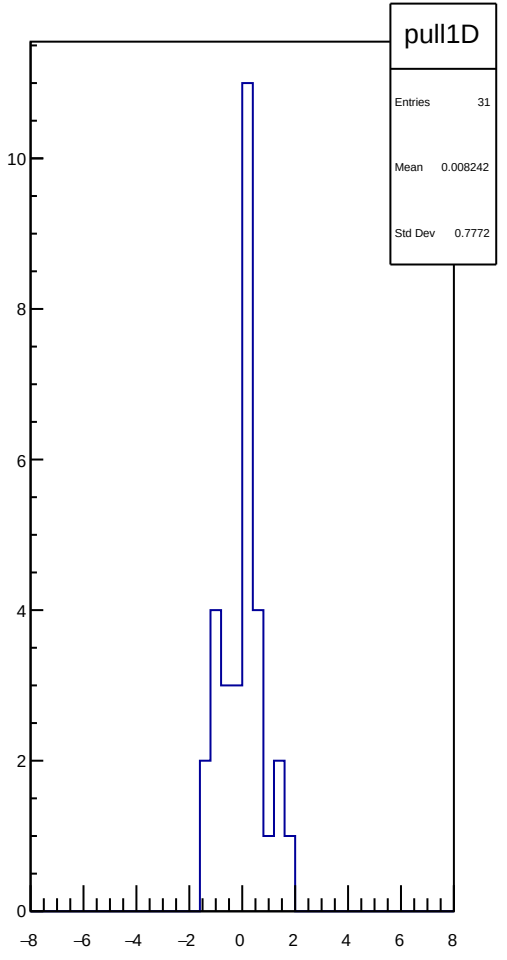


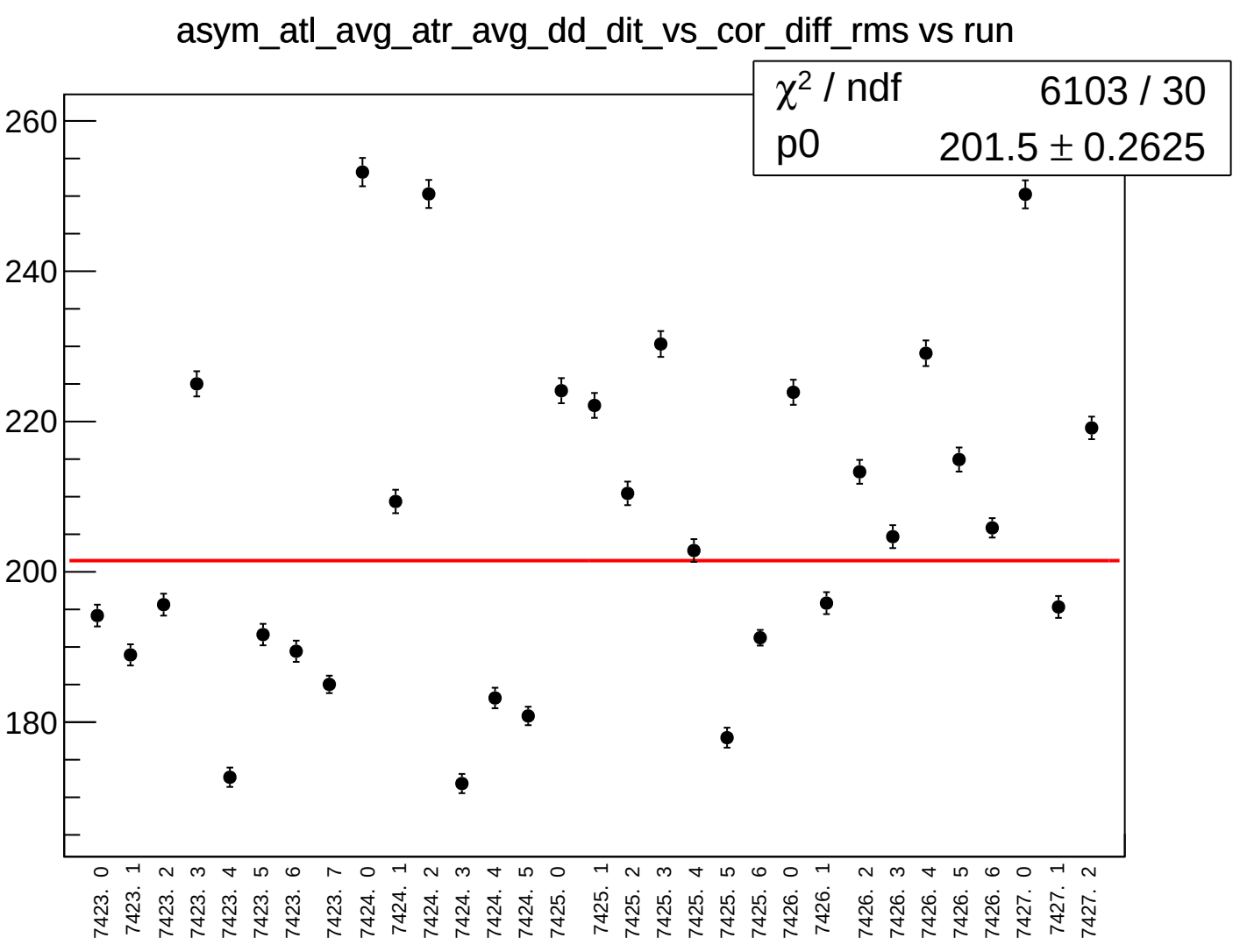

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.996e+05 / 30
p0 4.875e−12 ± 1.574e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

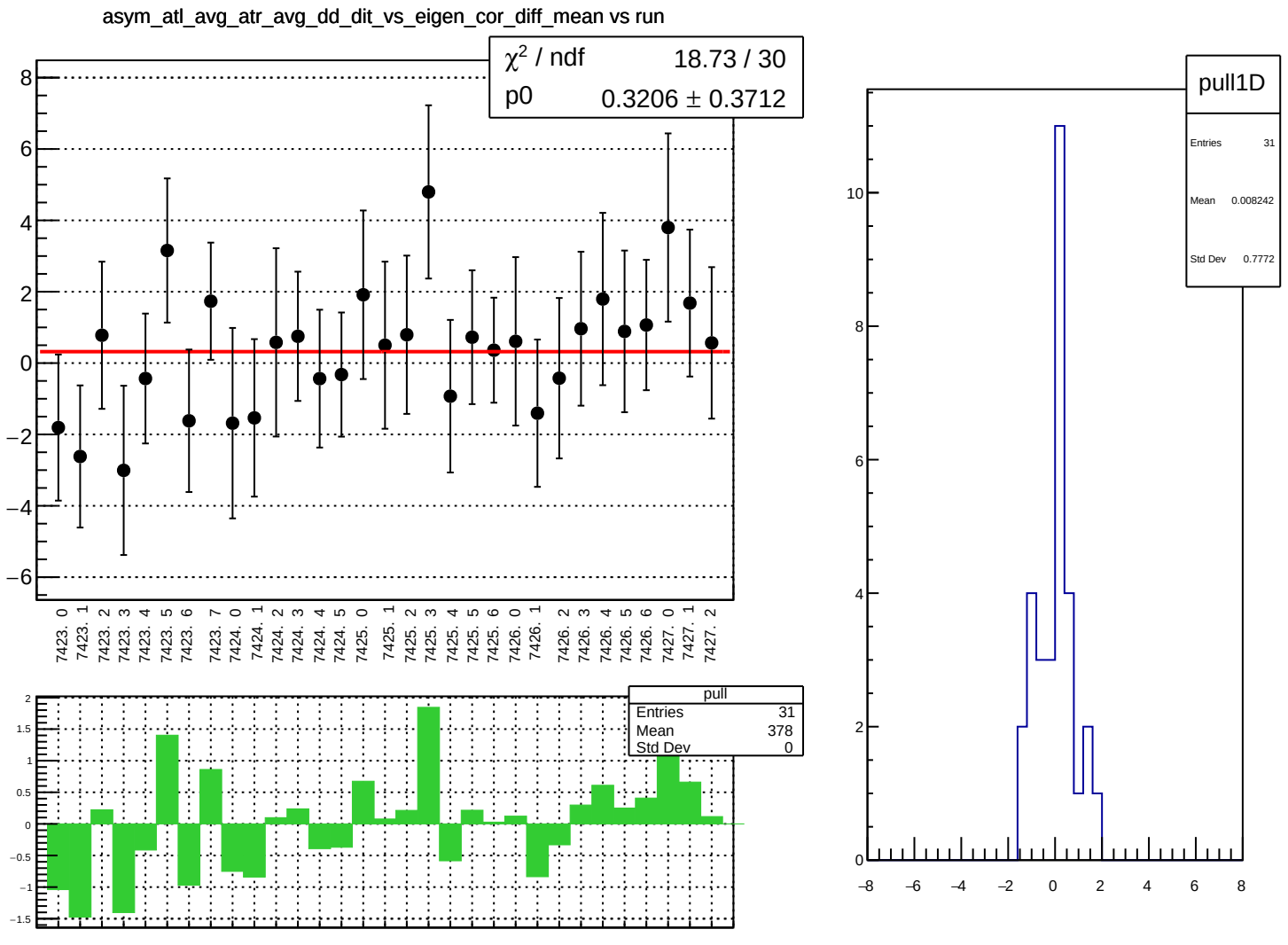
asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run

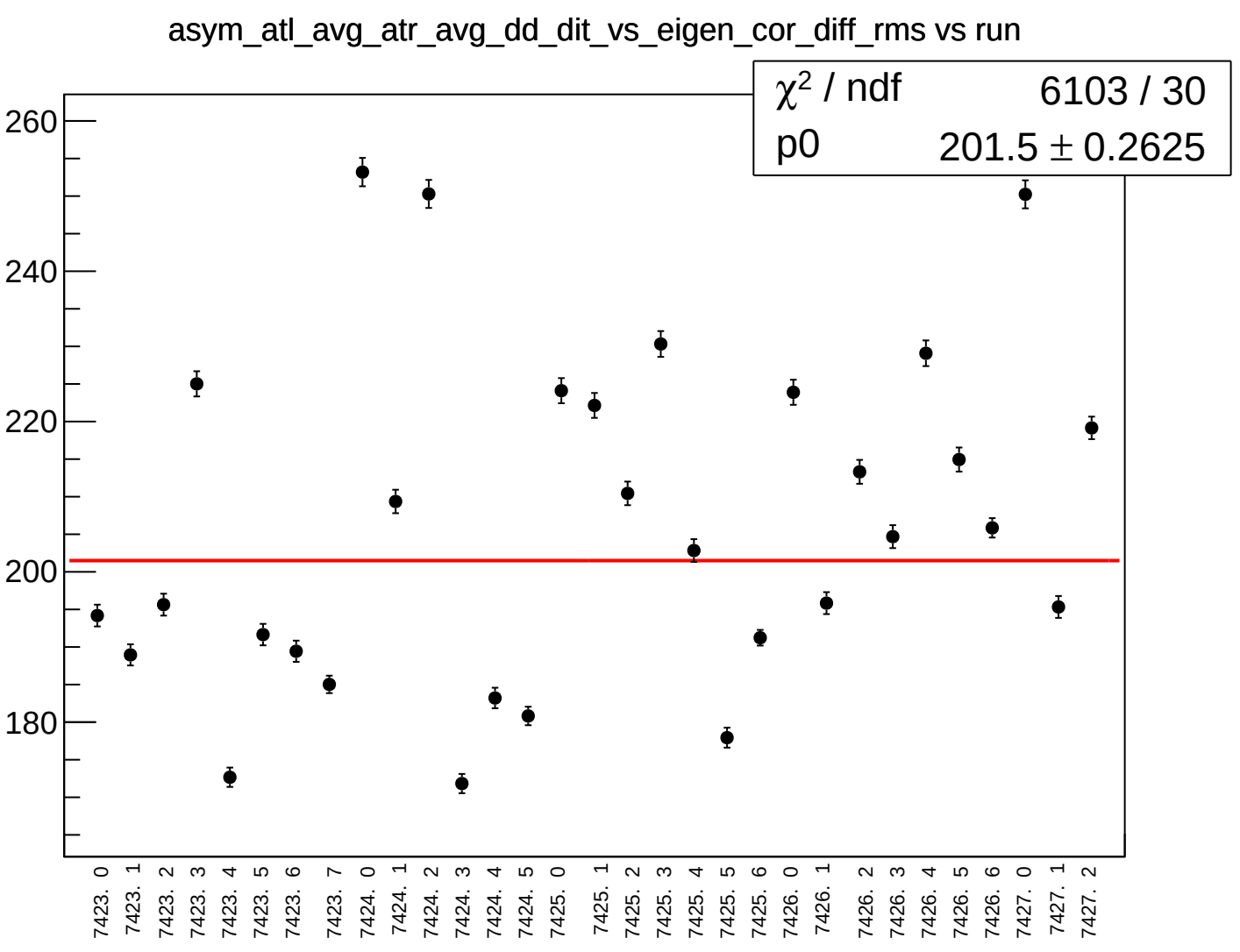


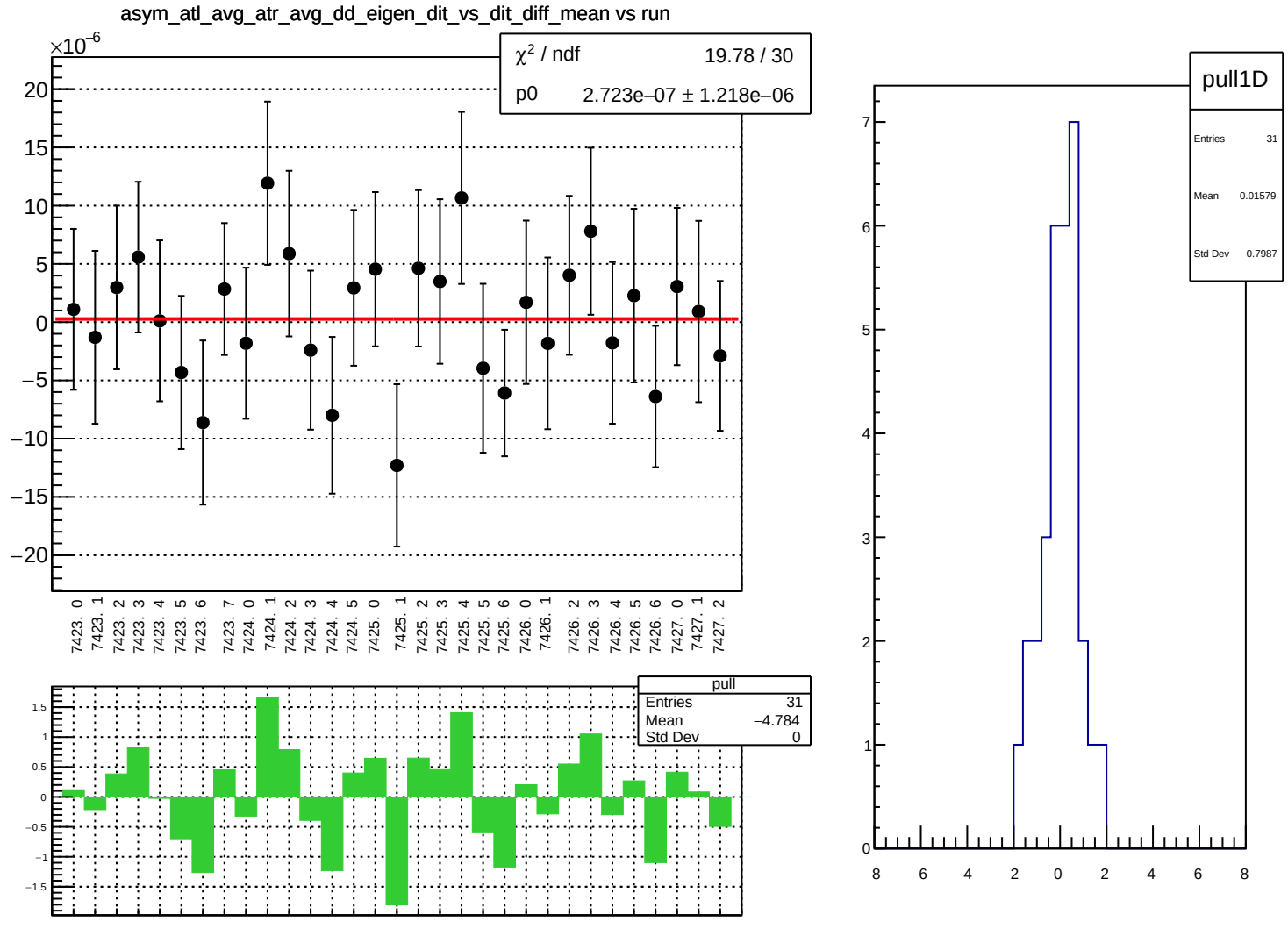


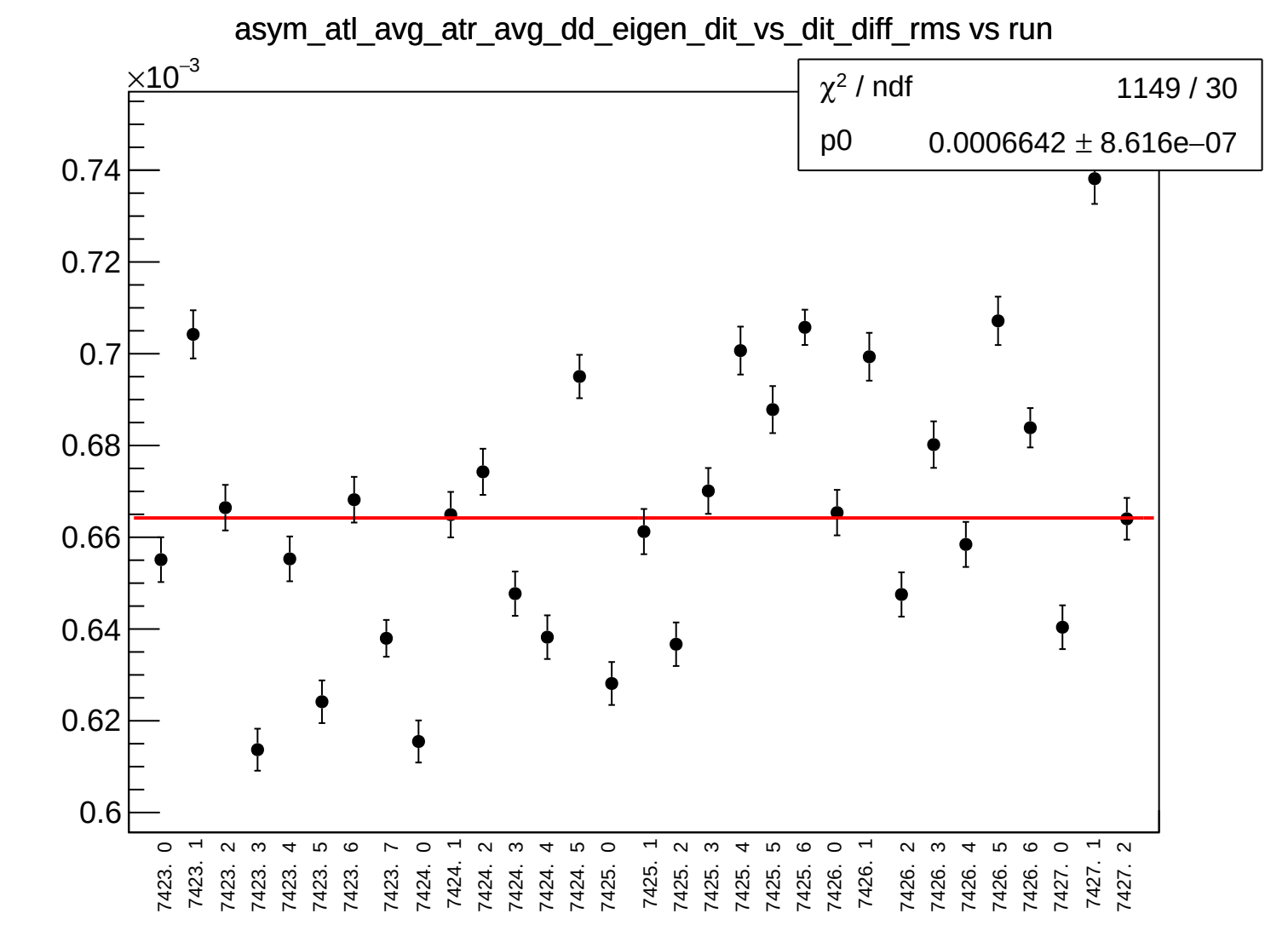


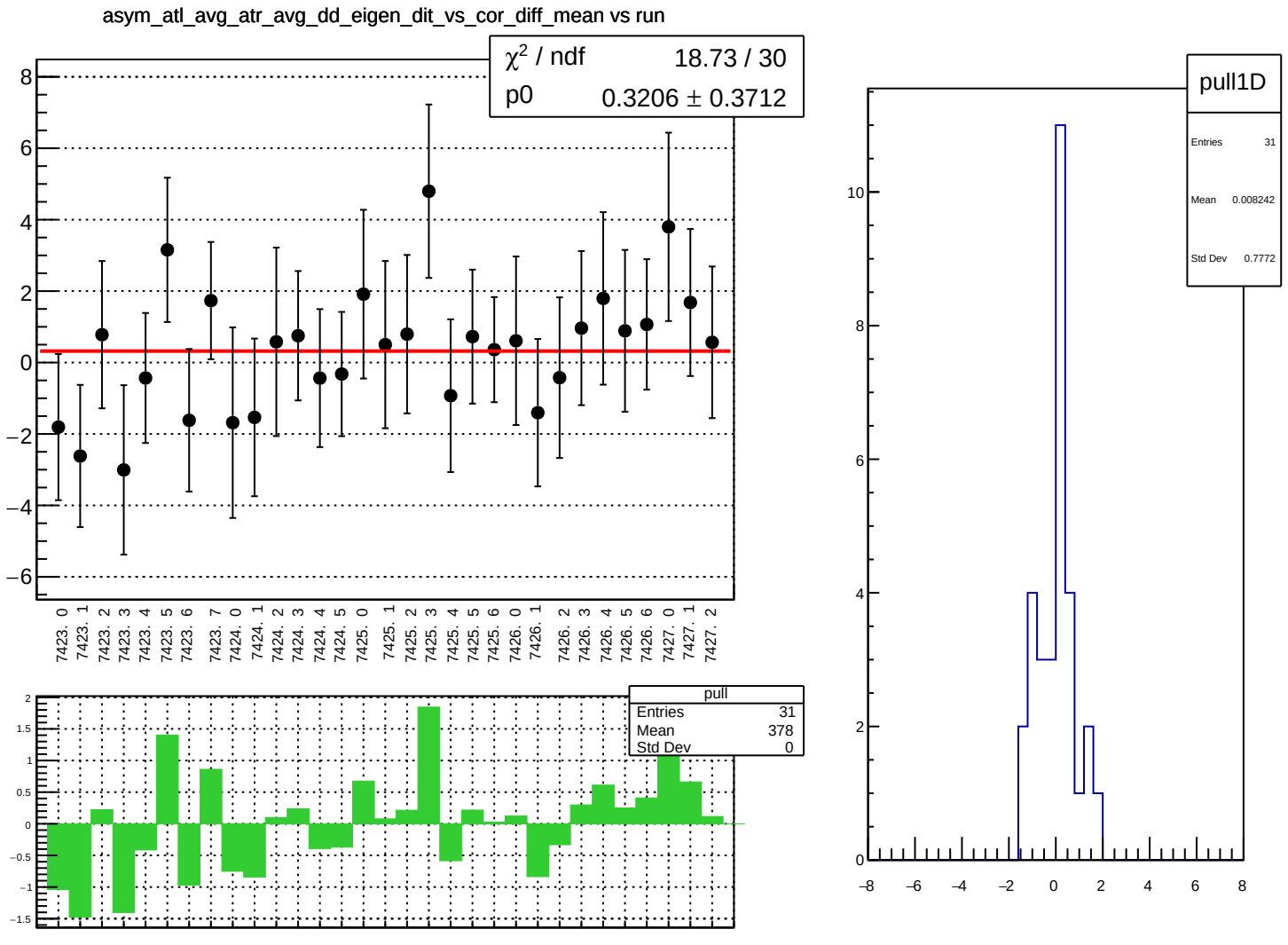

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6103 / 30
p0 201.5 ± 0.2625
260
240
220
200
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

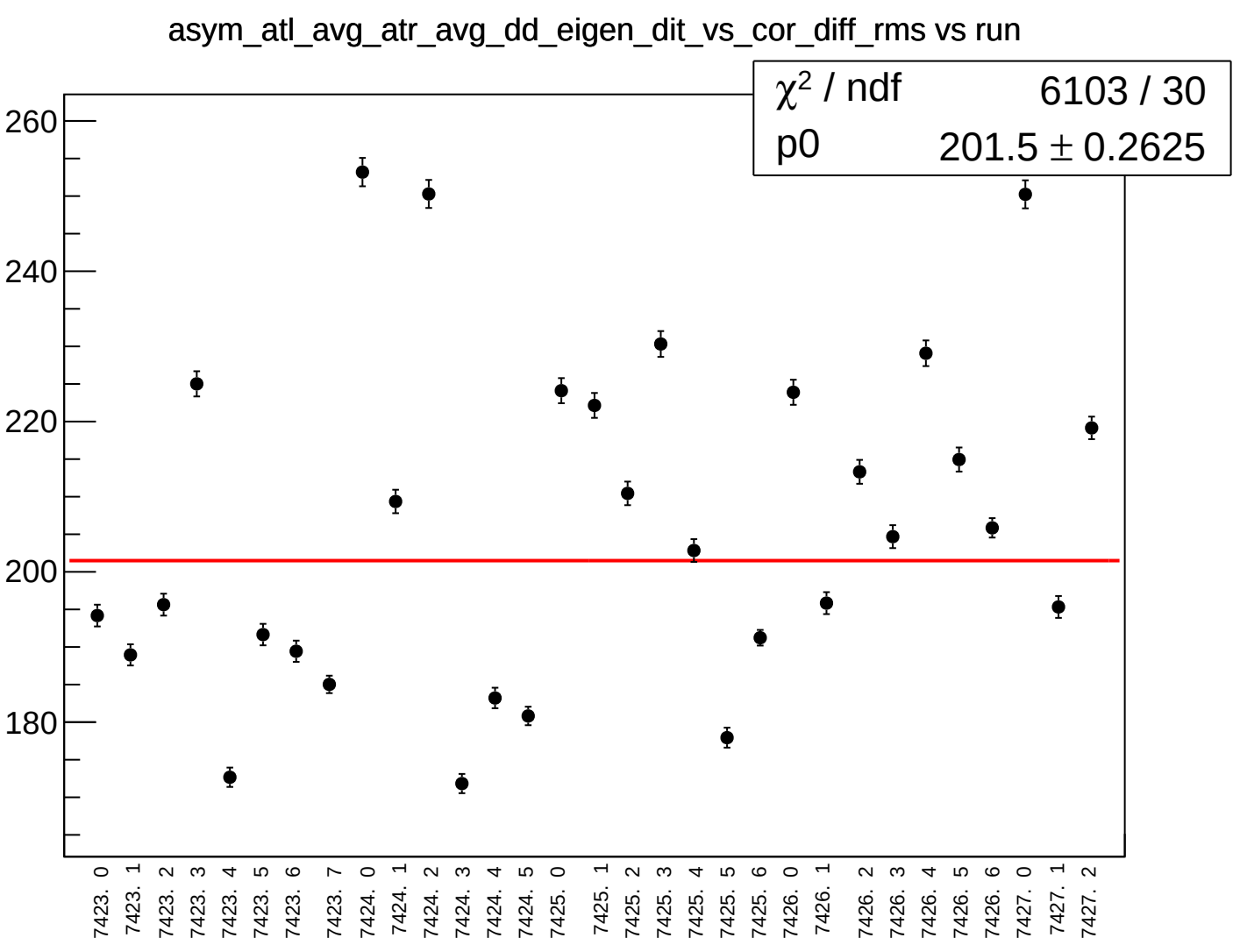

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.73 / 30
p0 0.3206 ± 0.3712
8
6
4
2
0
−2
−4
−6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 378
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.008242
Std Dev 0.7772
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

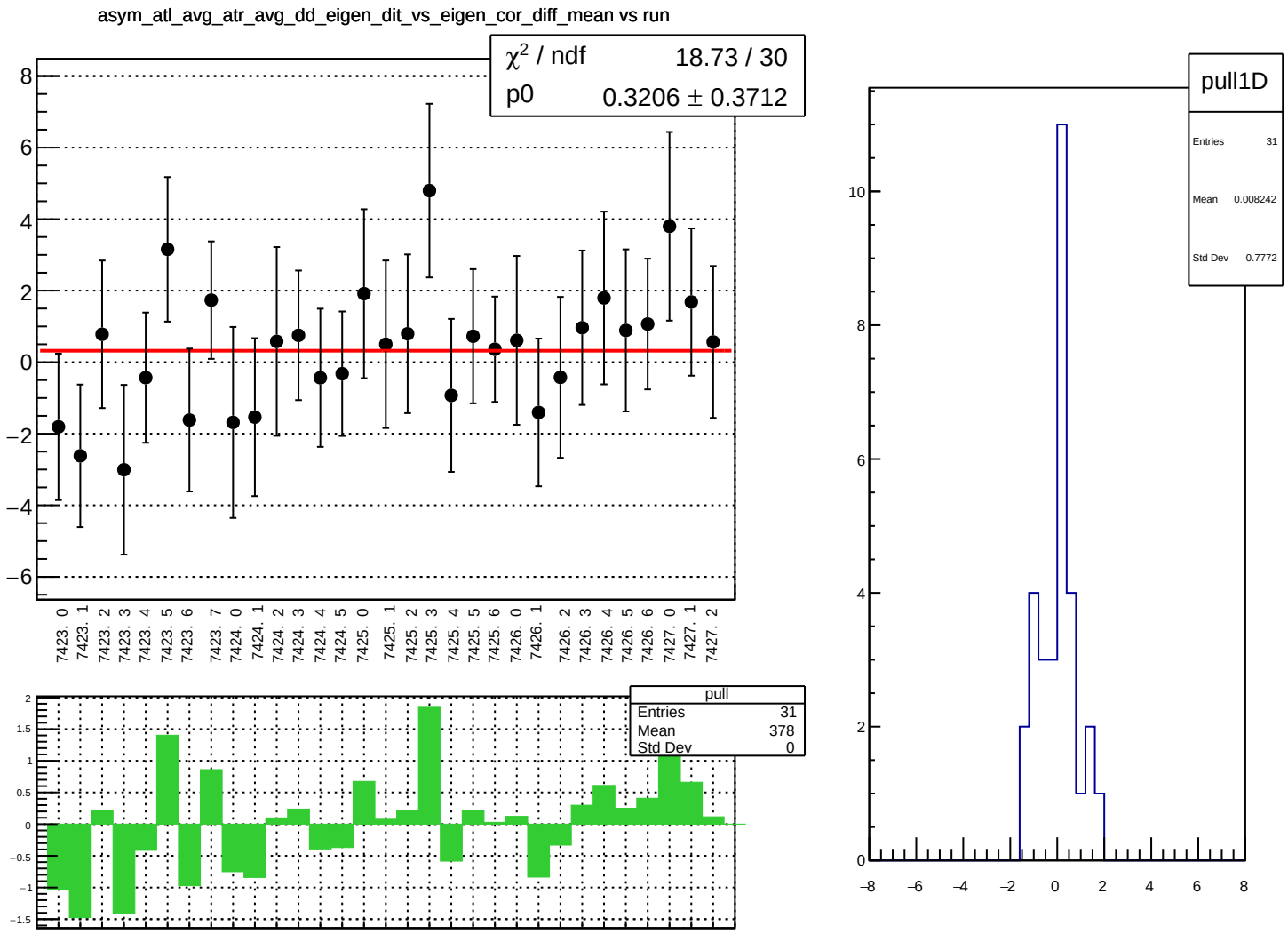

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6103 / 30
p0 201.5 ± 0.2625
260
240
220
200
180
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

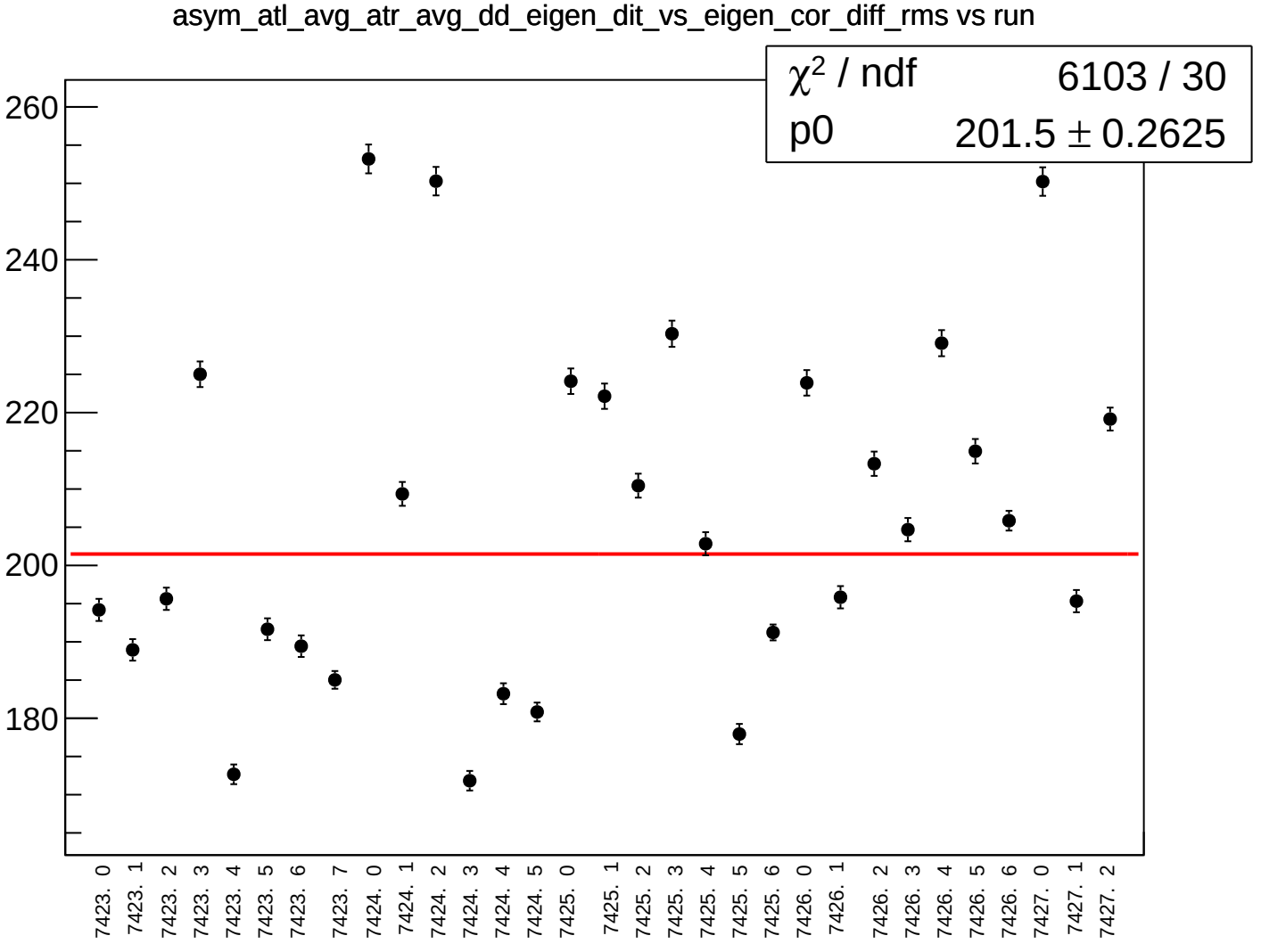

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 19.78 / 30
p0 2.723e−07 ± 1.218e−06
20
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −4.784
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01579
Std Dev 0.7987
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

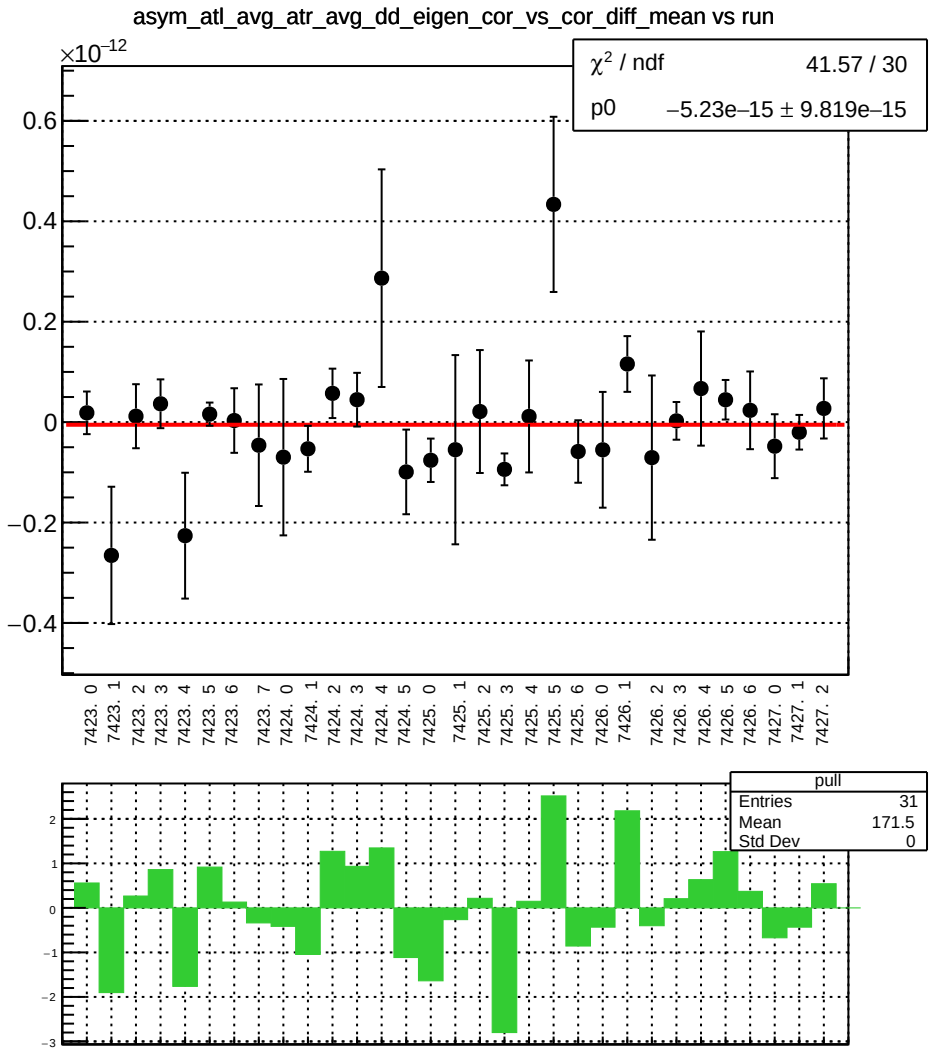

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1149 / 30
p0 0.0006642 ± 8.616e−07
0.74
0.72
0.7
0.68
0.66
0.64
0.62
0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

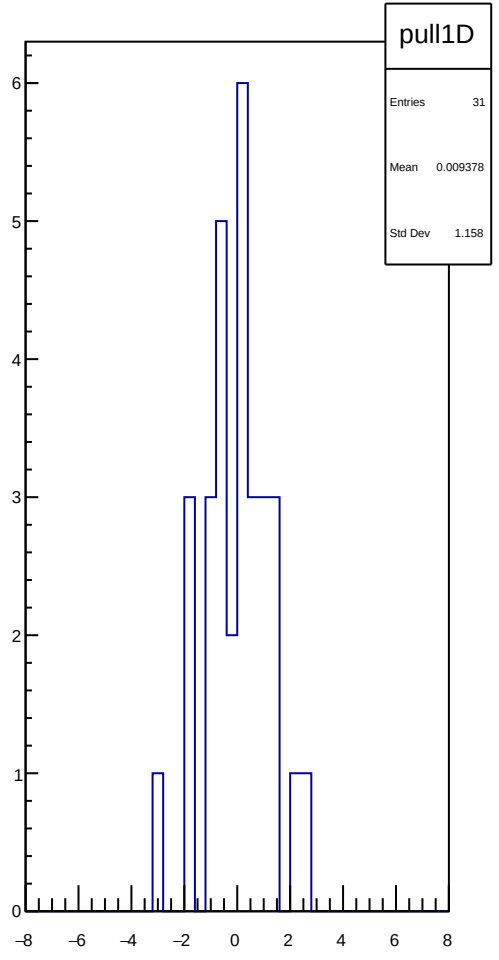

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.73 / 30
p0 0.3206 ± 0.3712
8
6
4
2
0
−2
−4
−6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 378
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.008242
Std Dev 0.7772
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

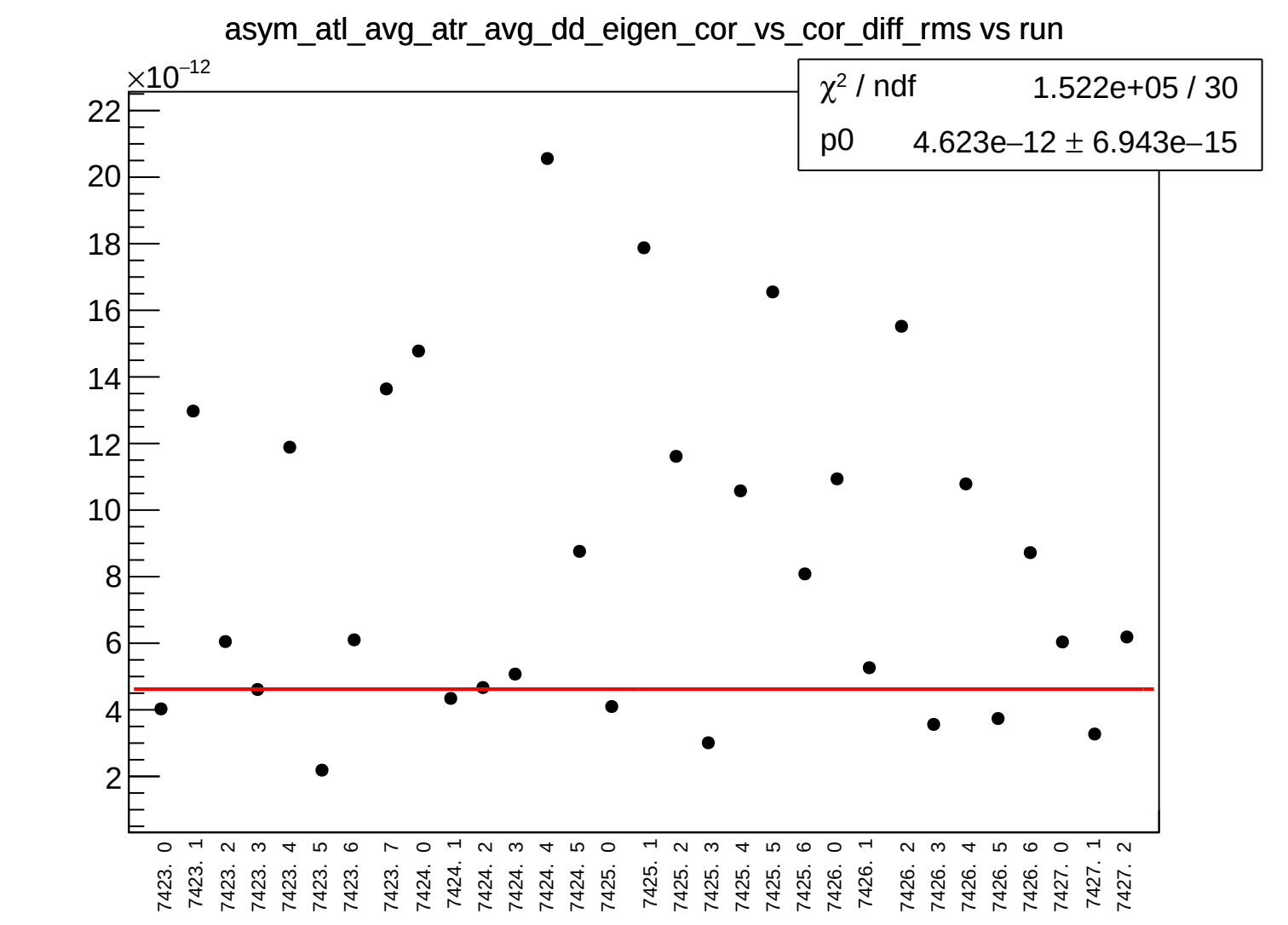

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6103 / 30
p0 201.5 ± 0.2625
260
240
220
200
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

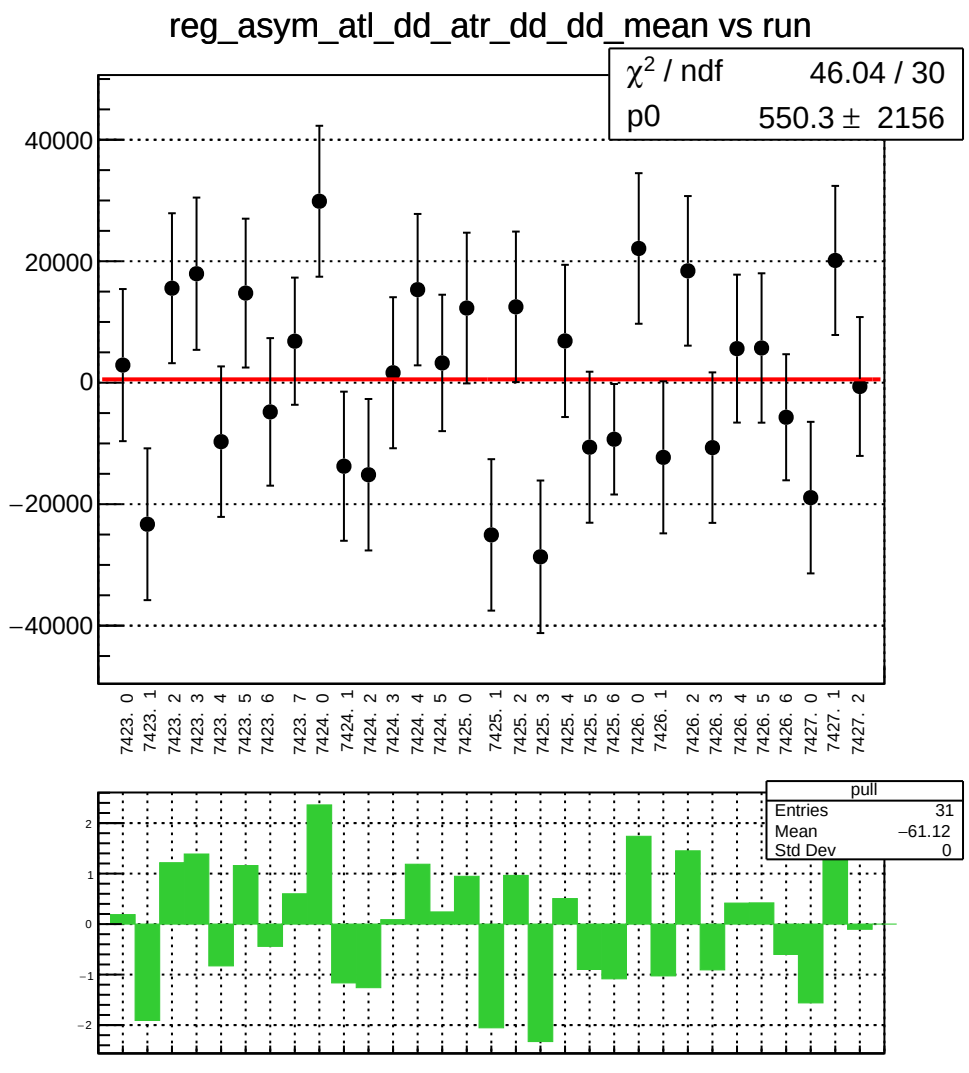

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.73 / 30
p0 0.3206 ± 0.3712
8
6
4
2
0
−2
−4
−6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 378
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.008242
Std Dev 0.7772
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

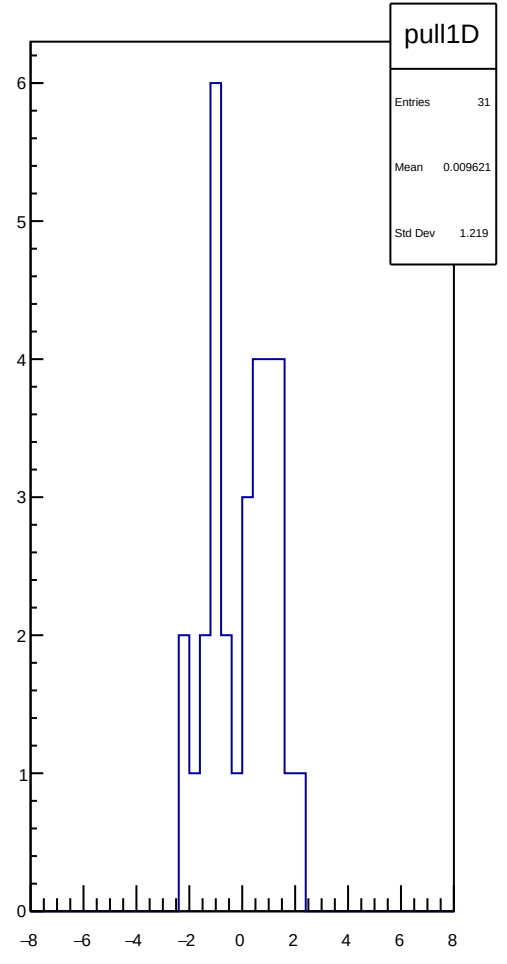

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6103 / 30
p0 201.5 ± 0.2625
260
240
220
200
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

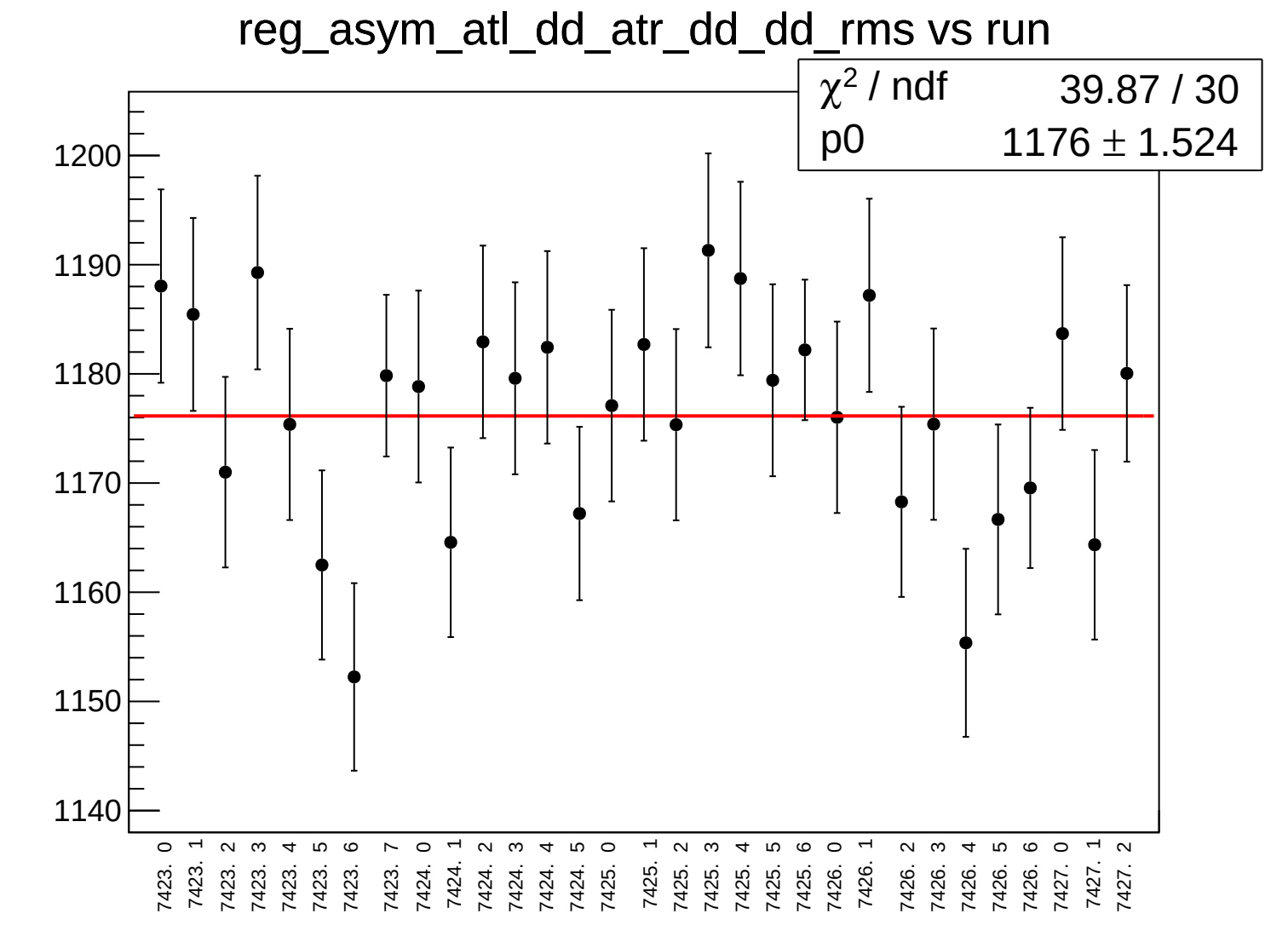

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.57 / 30
p0 −5.23e−15 ± 9.819e−15
0.6
0.4
0.2
0
−0.2
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 171.5
Std Dev 0
2
1
0
−1
−2
−3

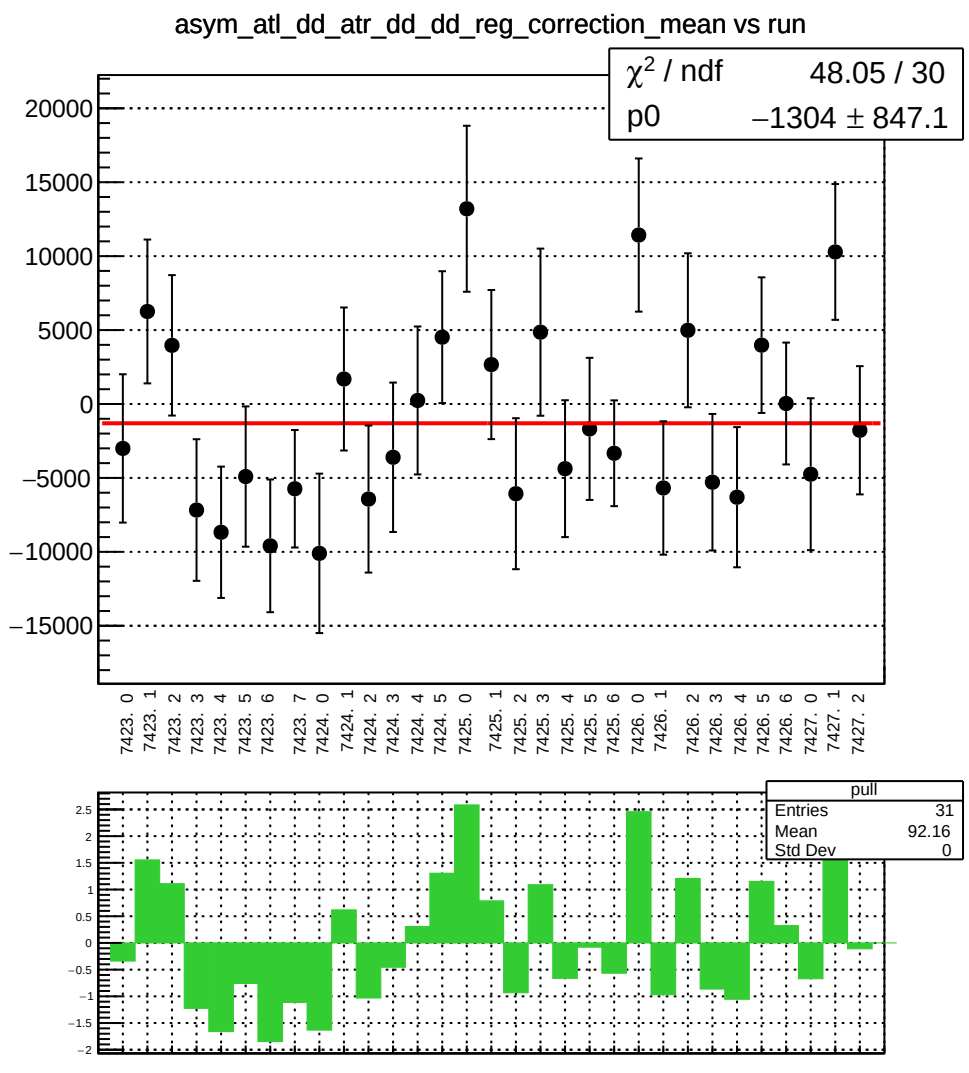

pull1D
Entries 31
Mean 0.009378
Std Dev 1.158
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

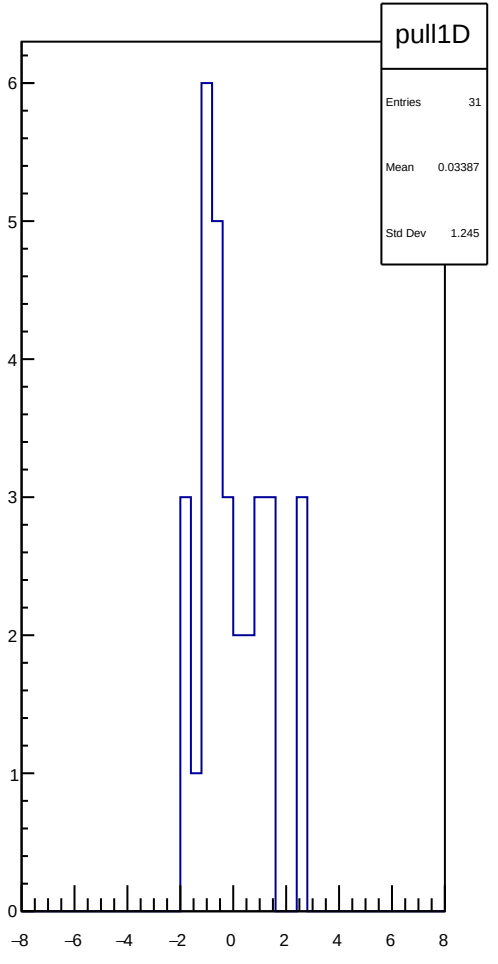

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.522e+05 / 30
p0 4.623e−12 ± 6.943e−15
22
20
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

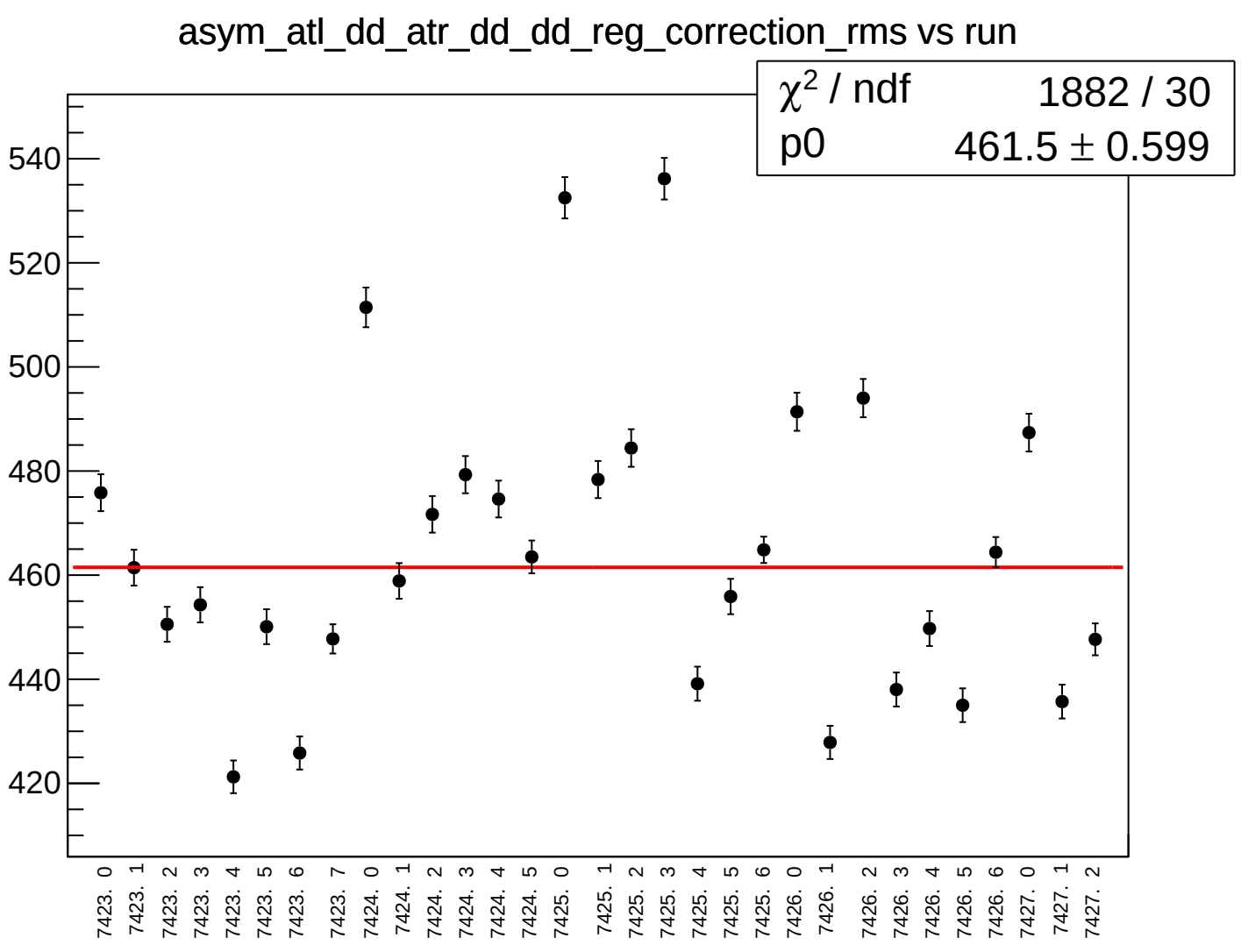

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 46.04 / 30
p0 550.3 ± 2156
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −61.12
Std Dev 0
2
1
0
−1
−2

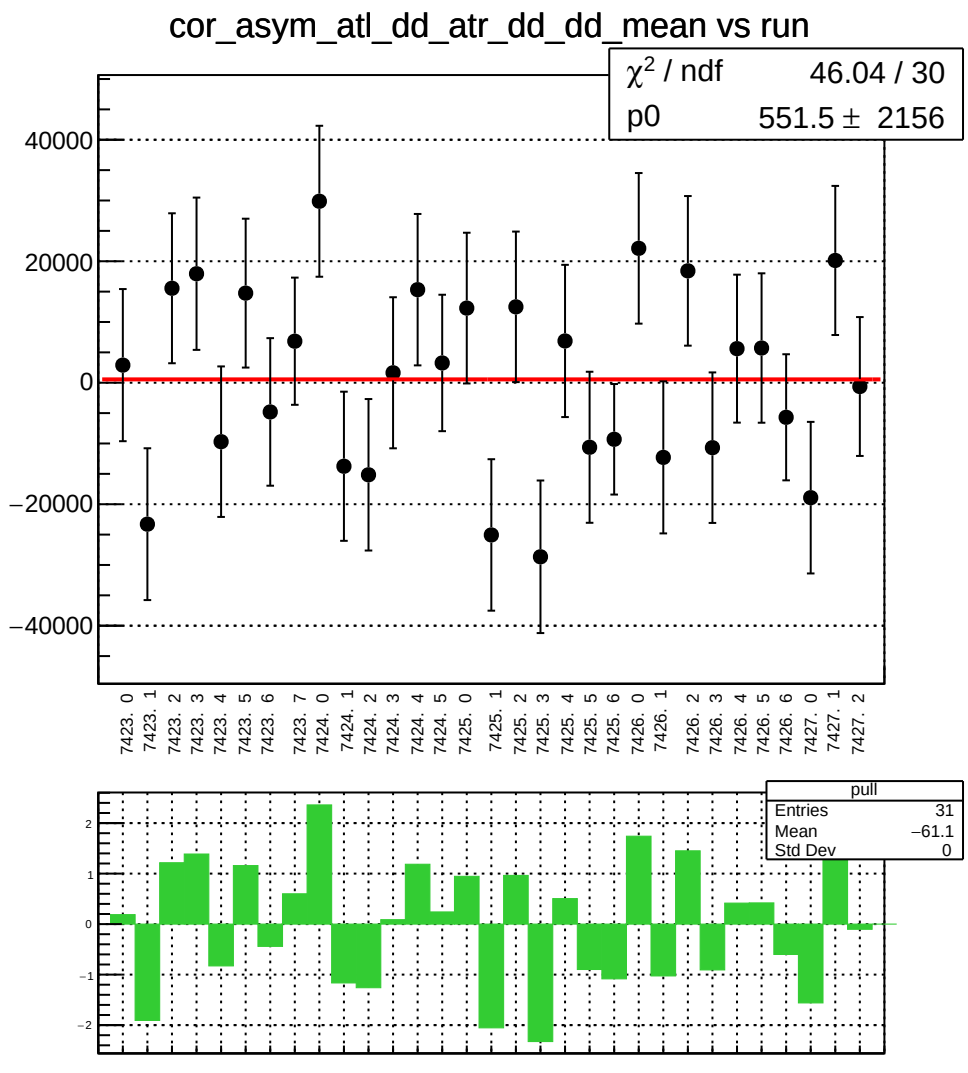

pull1D
Entries 31
Mean 0.009621
Std Dev 1.219
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

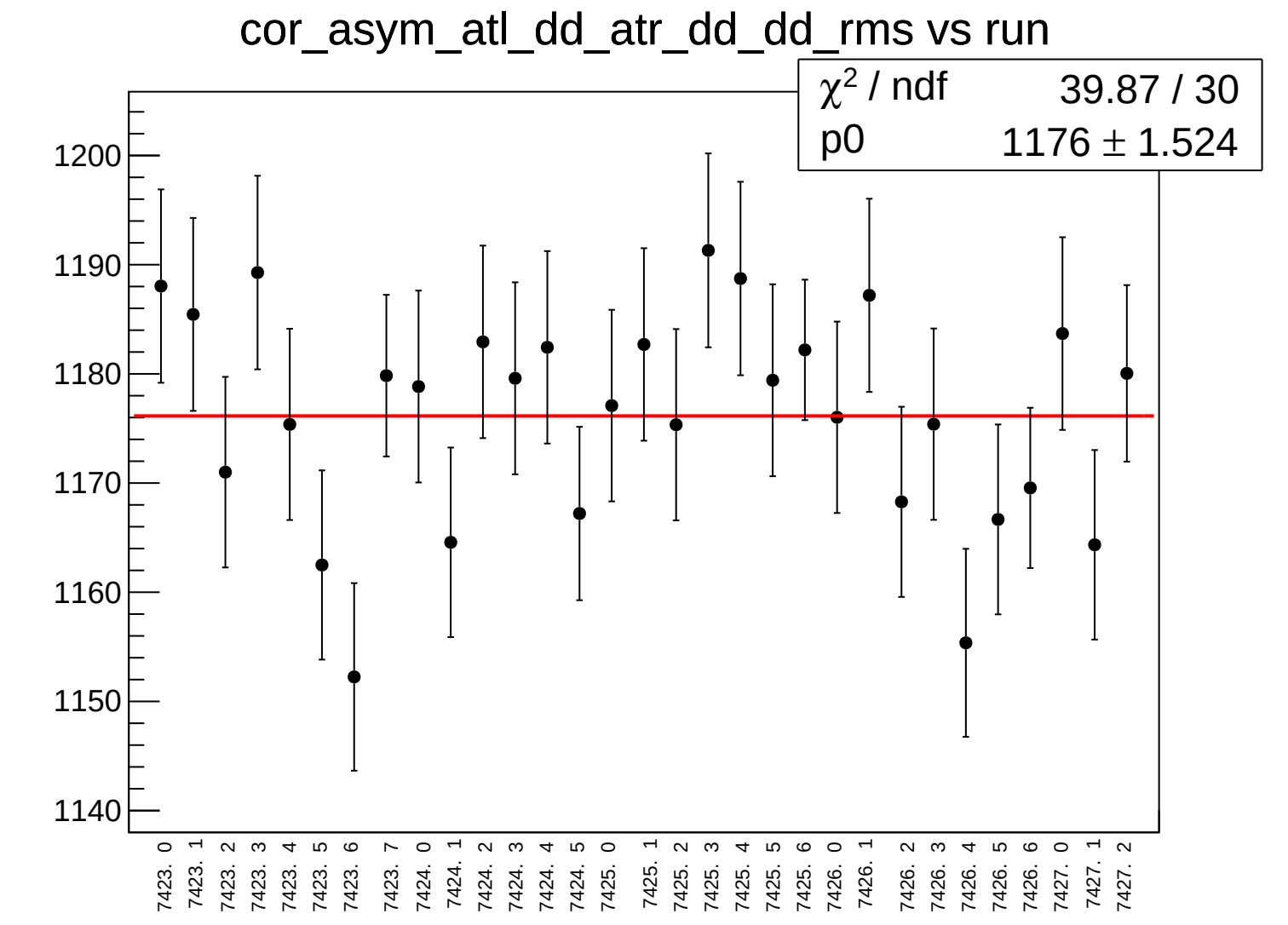

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 39.87 / 30
p0 1176 ± 1.524
1200
1190
1180
1170
1160
1150
1140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

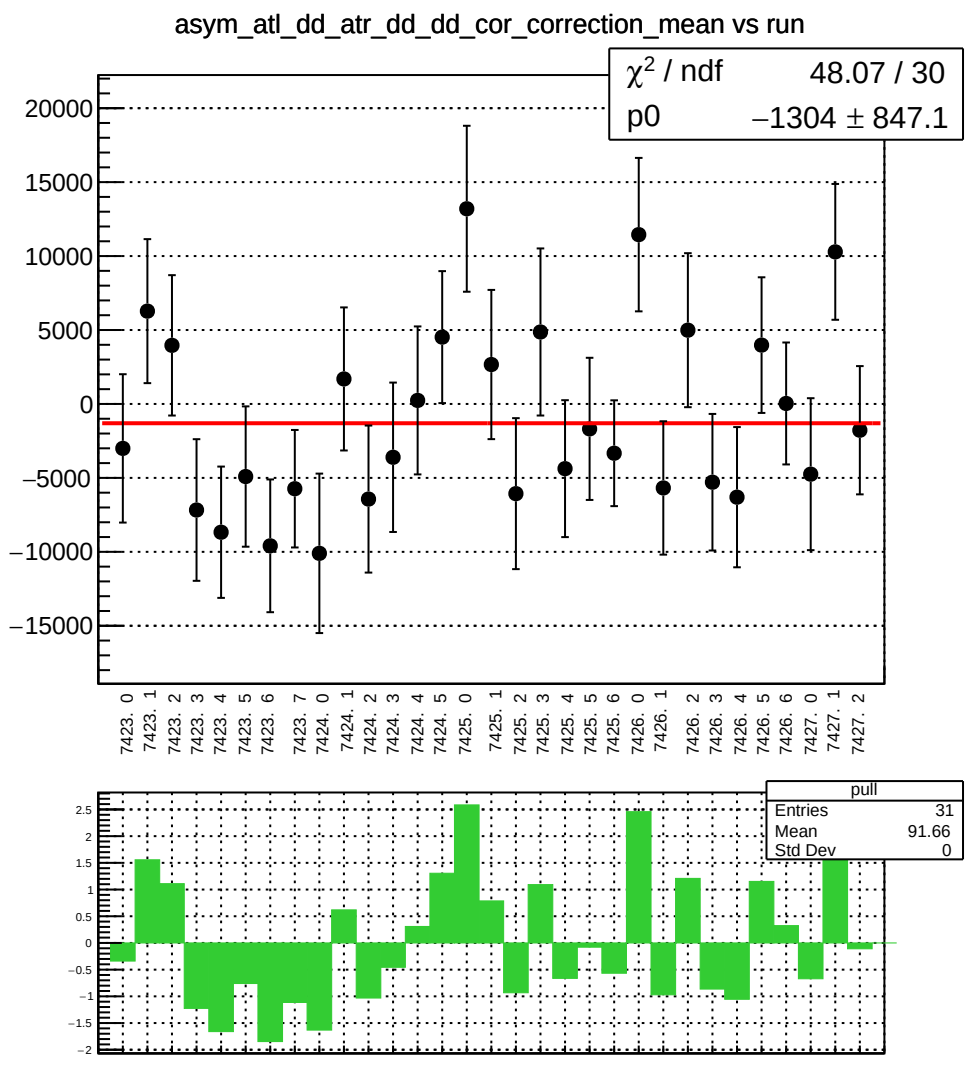

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 48.05 / 30
p0 −1304 ± 847.1
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 92.16
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

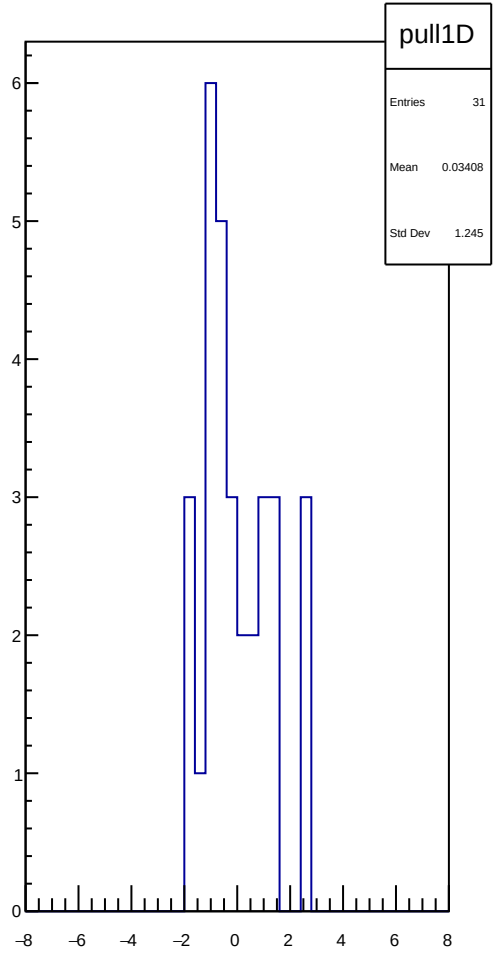

pull1D
Entries 31
Mean 0.03387
Std Dev 1.245
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

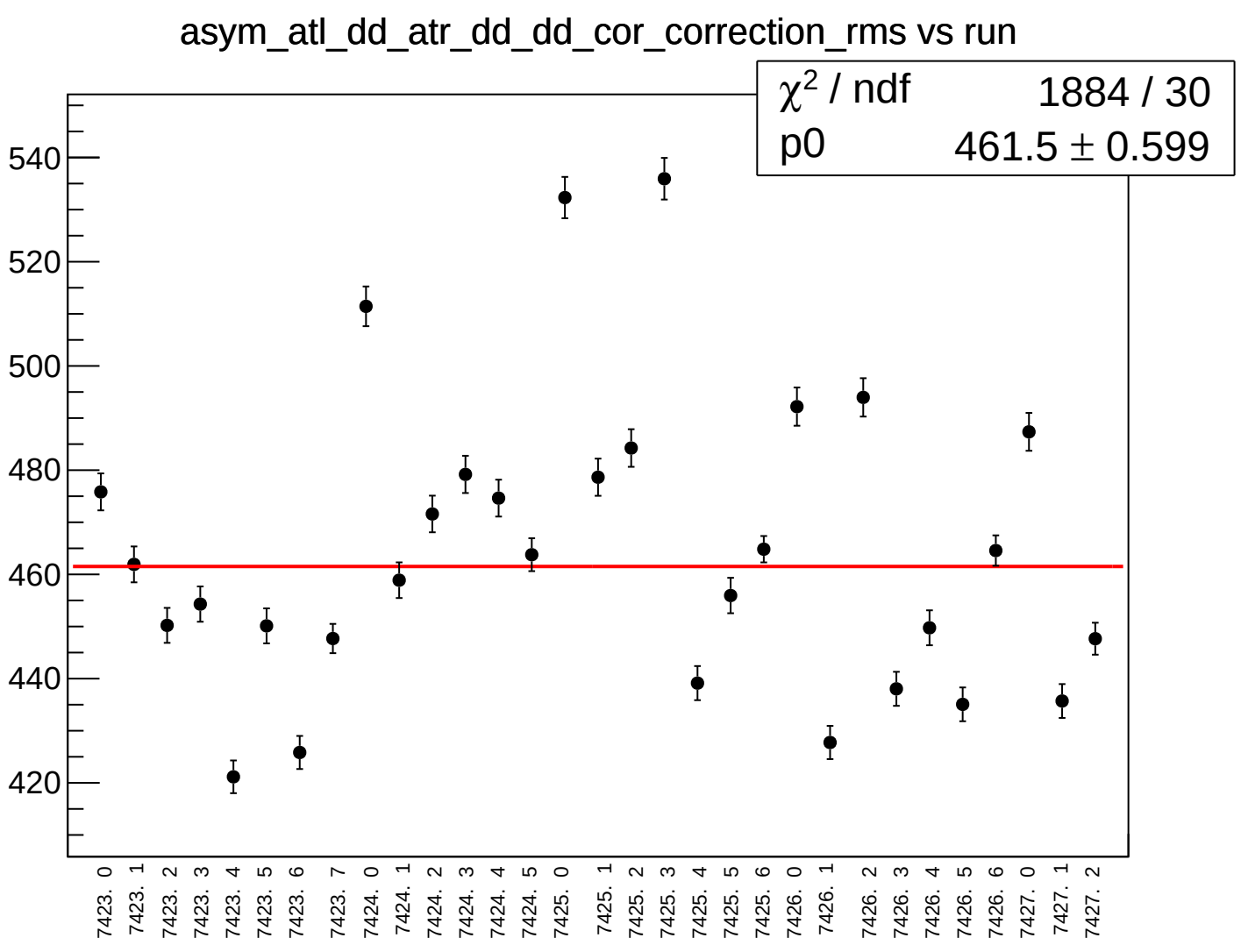

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1882 / 30
p0 461.5 ± 0.599
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

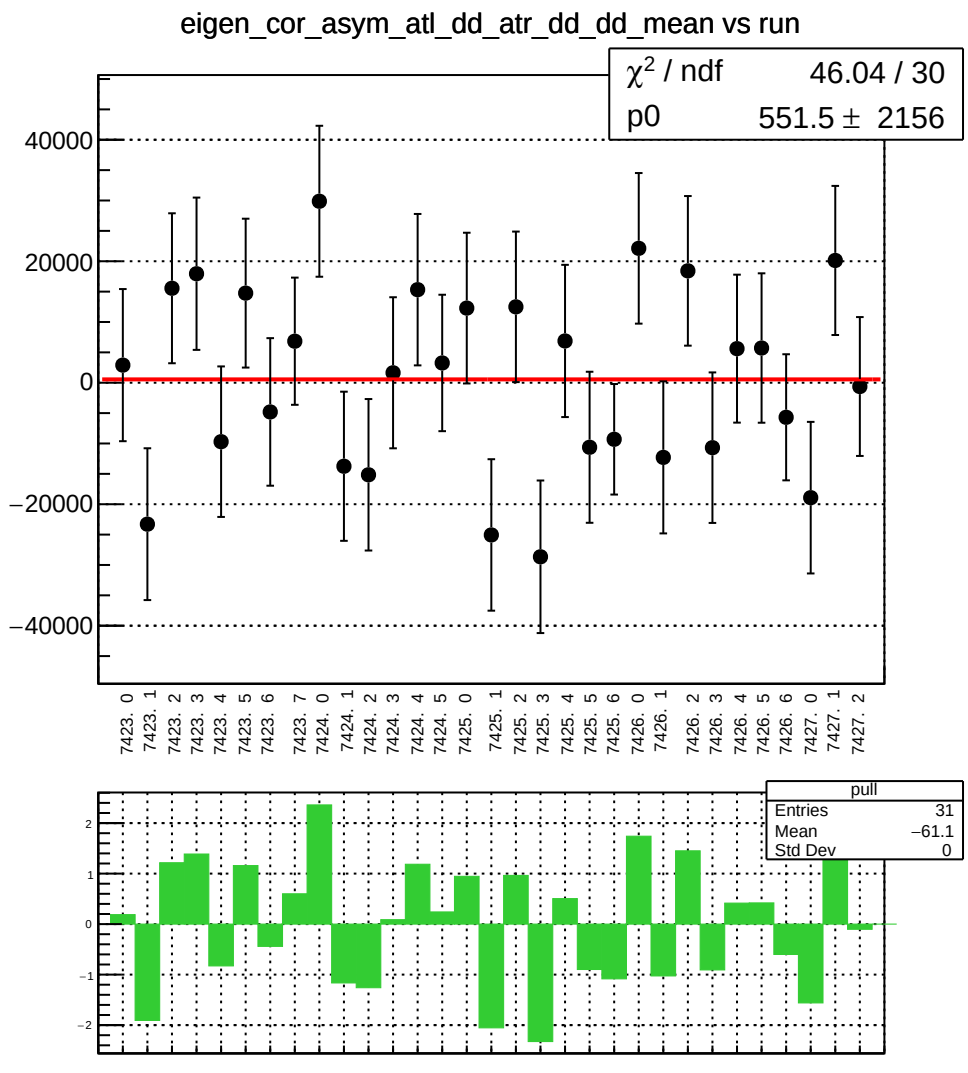

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 46.04 / 30
p0 551.5 ± 2156
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −61.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.009625
Std Dev 1.219
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

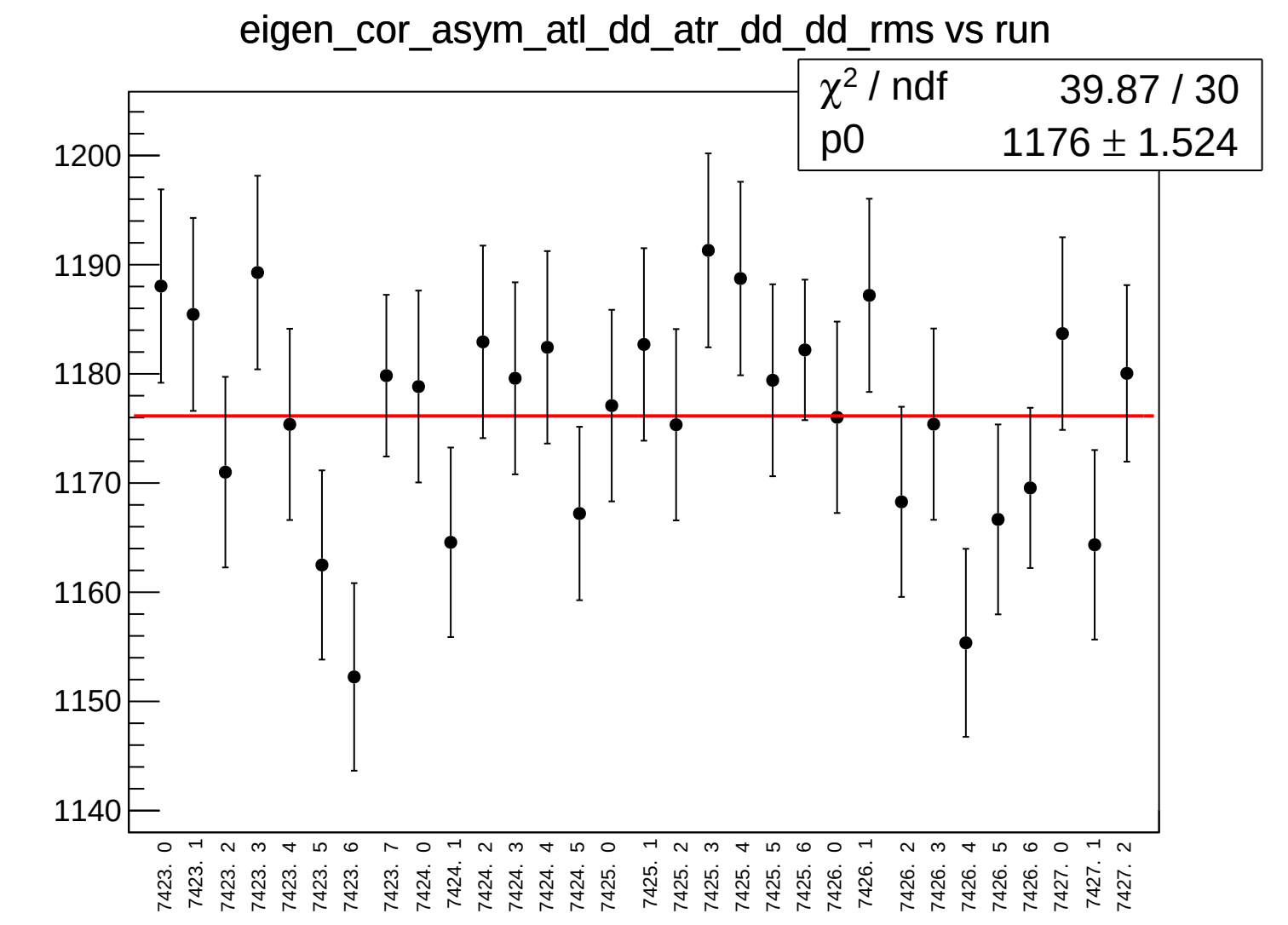

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 39.87 / 30
p0 1176 ± 1.524
1200
1190
1180
1170
1160
1150
1140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

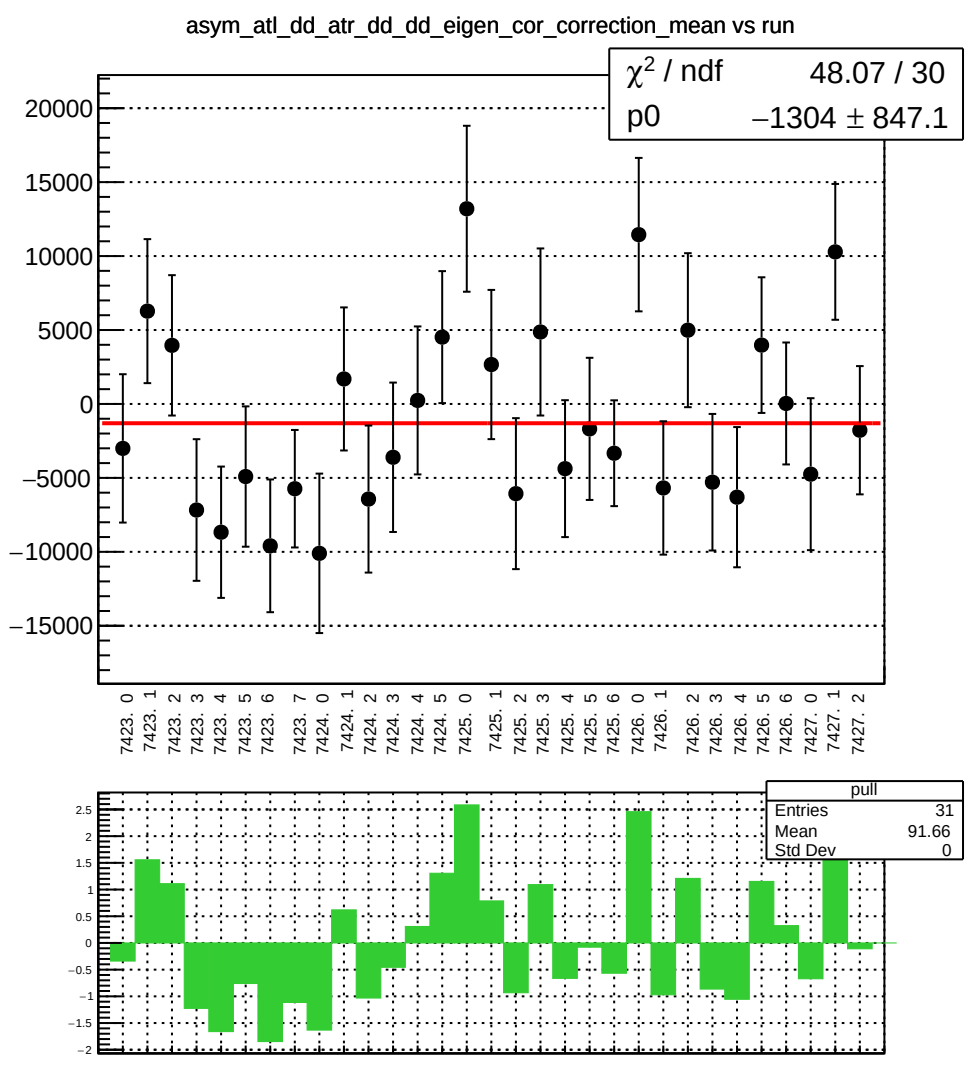

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 48.07 / 30
p0 −1304 ± 847.1
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 91.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

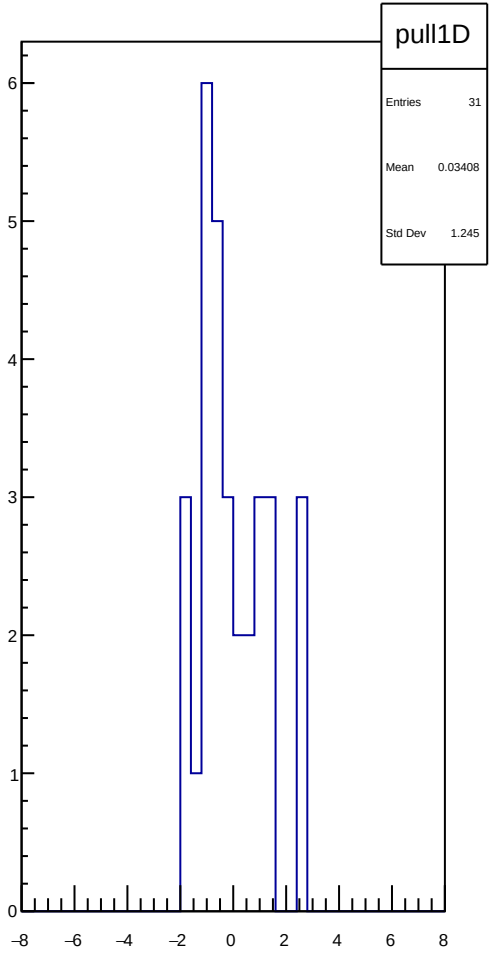

pull1D
Entries 31
Mean 0.03408
Std Dev 1.245
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

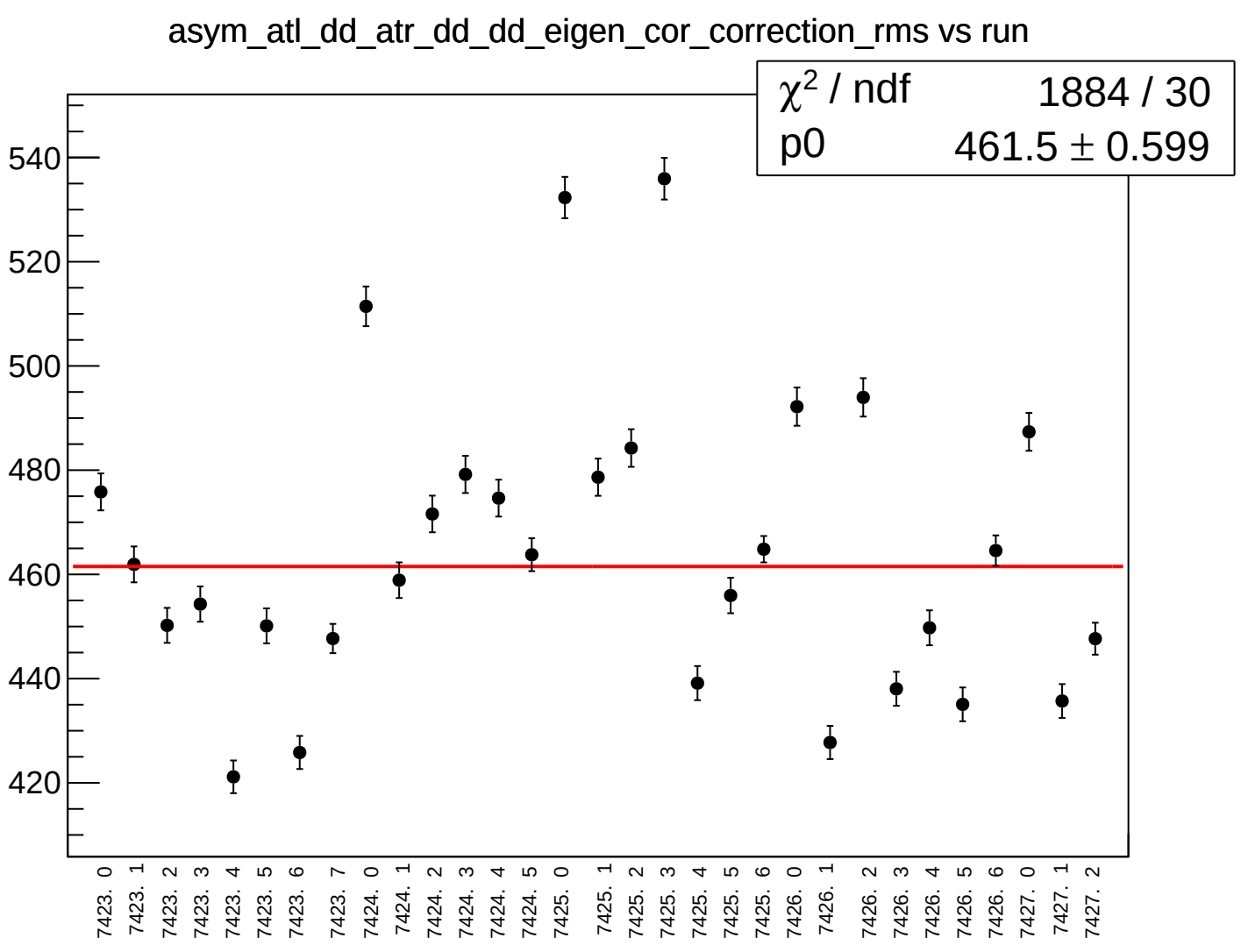

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1884 / 30
p0 461.5 ± 0.599
540
520
500
480
460
440
420
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

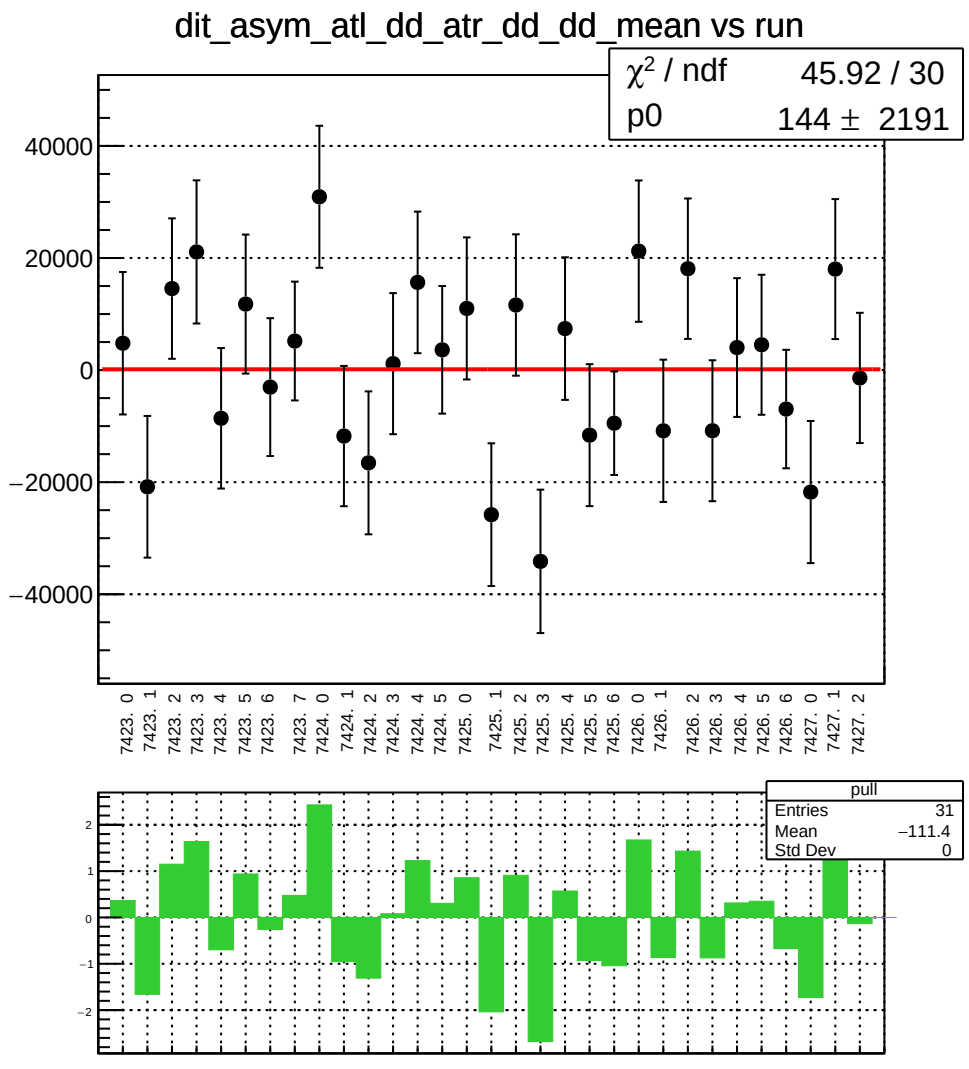

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 46.04 / 30
p0 551.5 ± 2156
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −61.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.009625
Std Dev 1.219
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

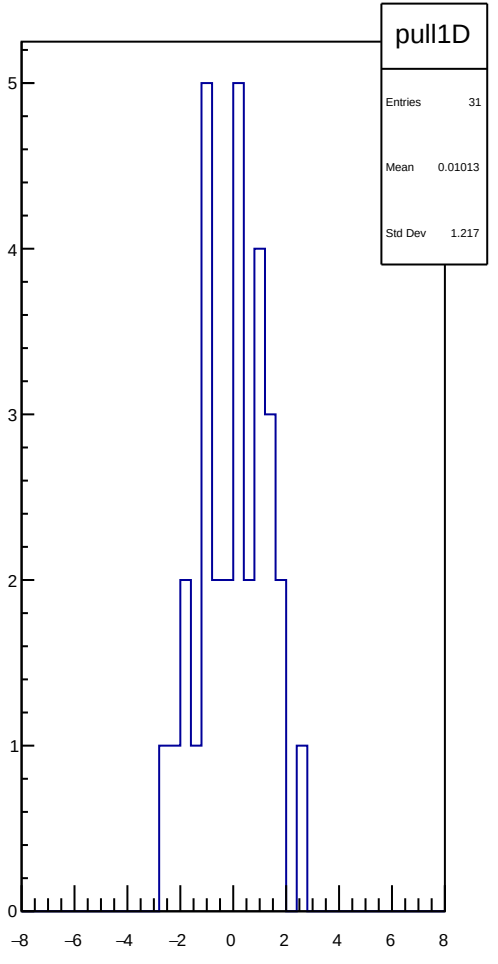

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 39.87 / 30
p0 1176 ± 1.524
1200
1190
1180
1170
1160
1150
1140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

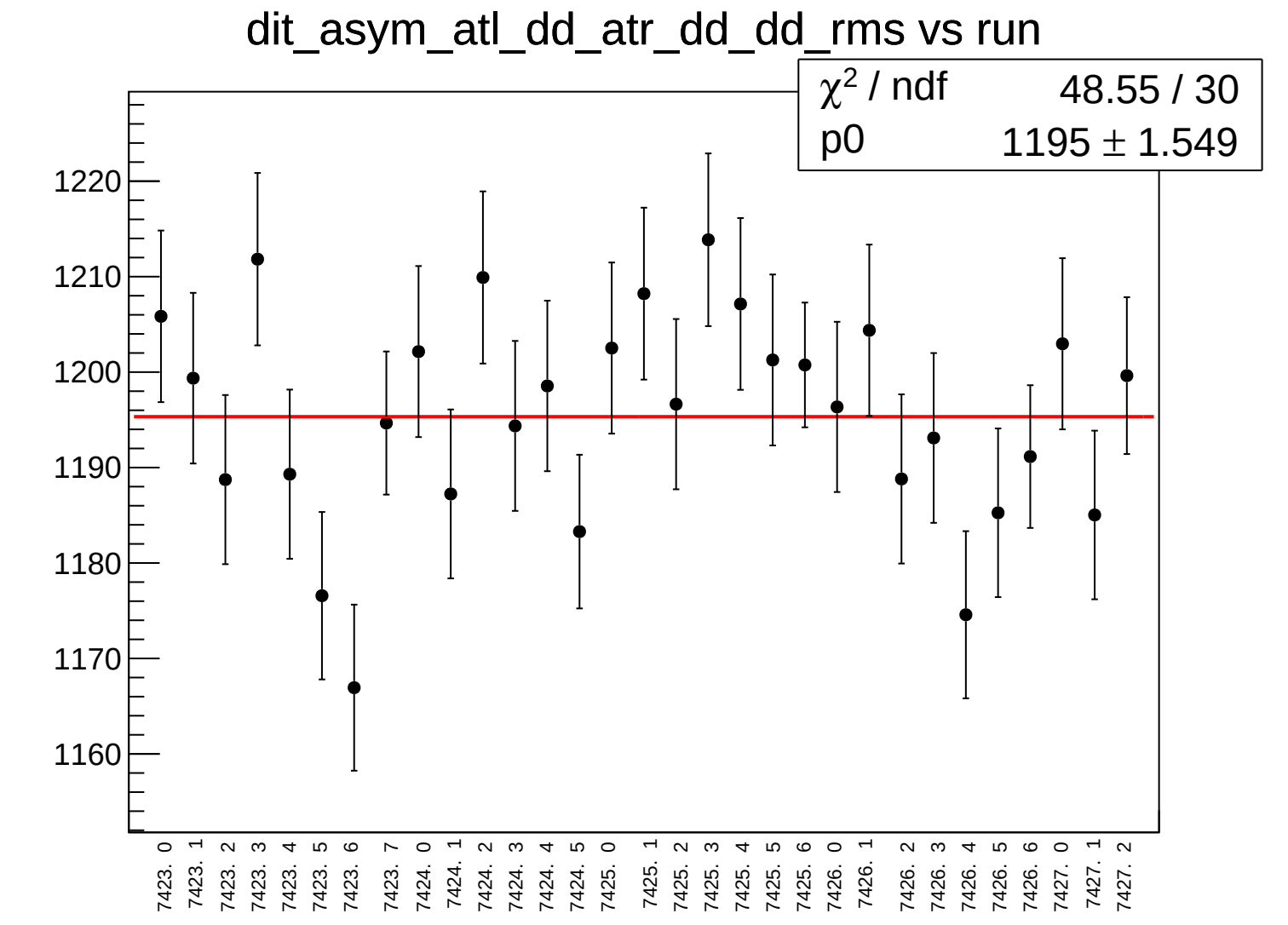

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 48.07 / 30
p0 −1304 ± 847.1
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 91.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

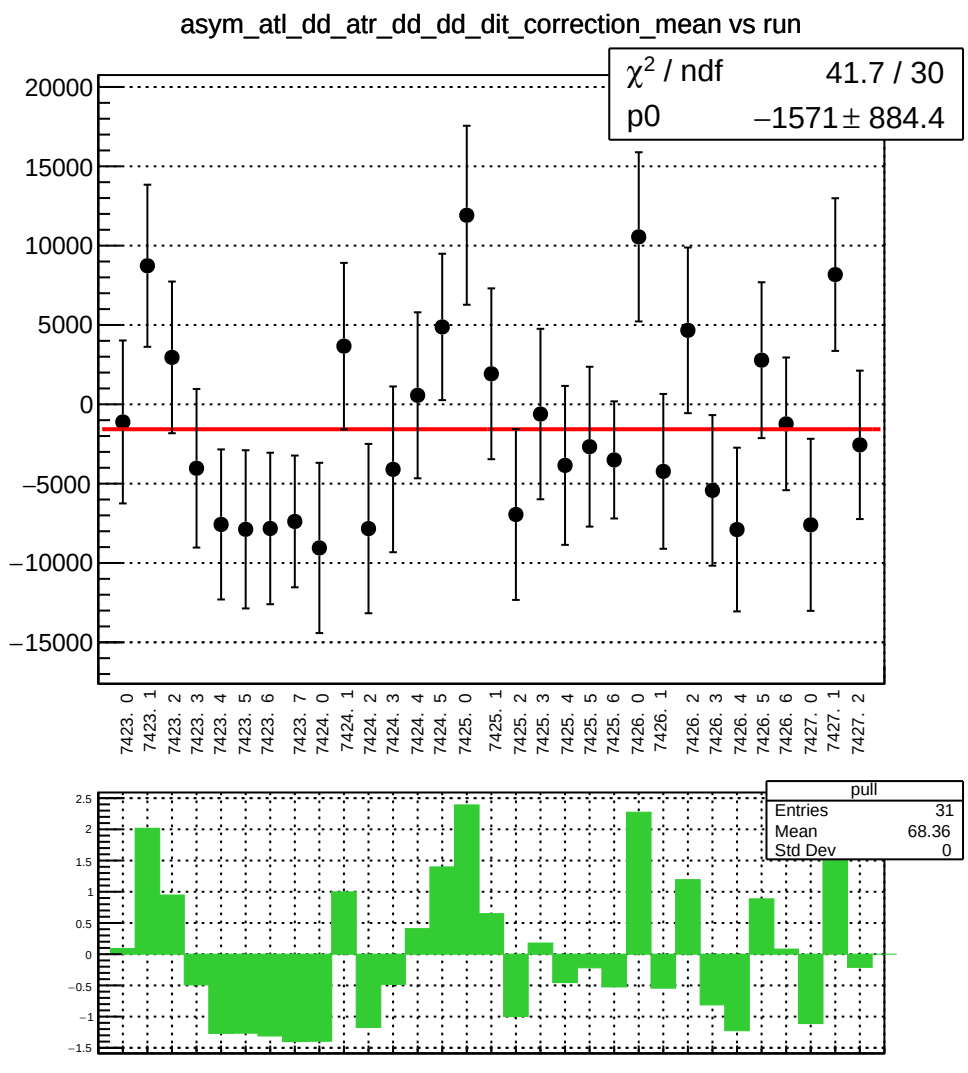

pull1D
Entries 31
Mean 0.03408
Std Dev 1.245
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

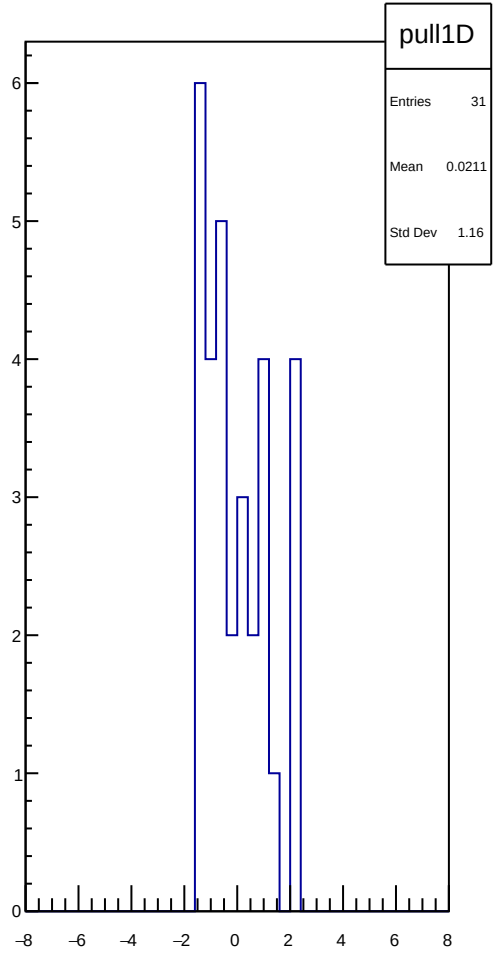

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1884 / 30
p0 461.5 ± 0.599
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

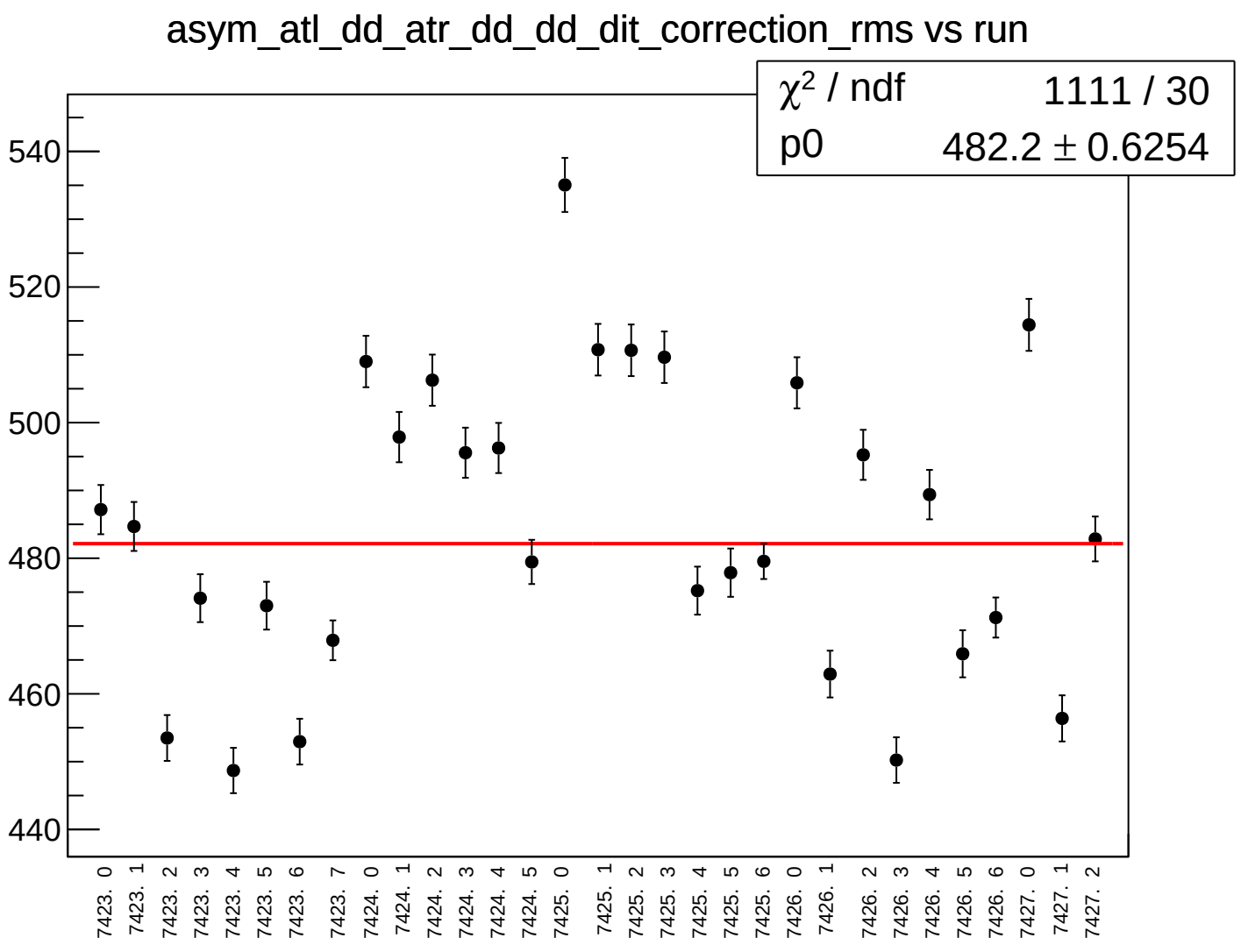

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 45.92 / 30
p0 144 ± 2191
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −111.4
Std Dev 0
2
1
0
−1
−2

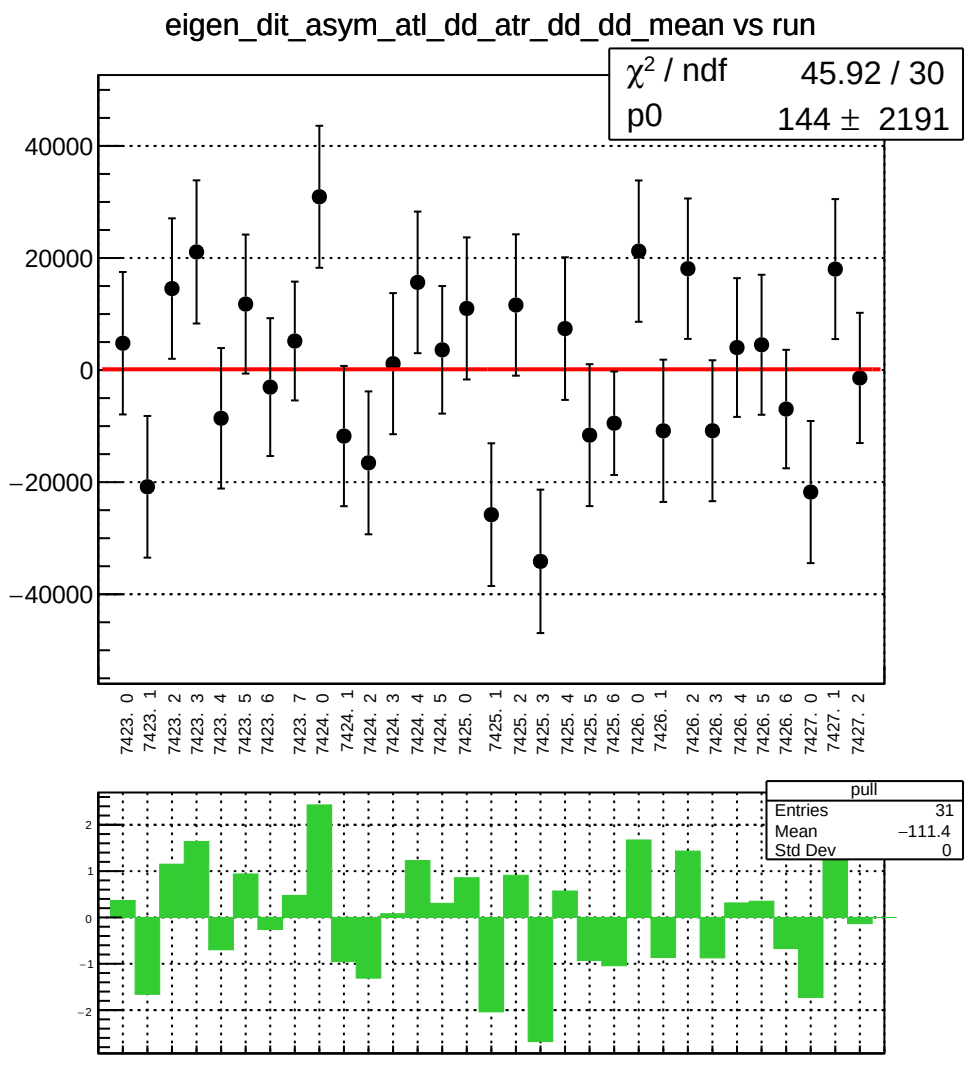

pull1D
Entries 31
Mean 0.01013
Std Dev 1.217
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

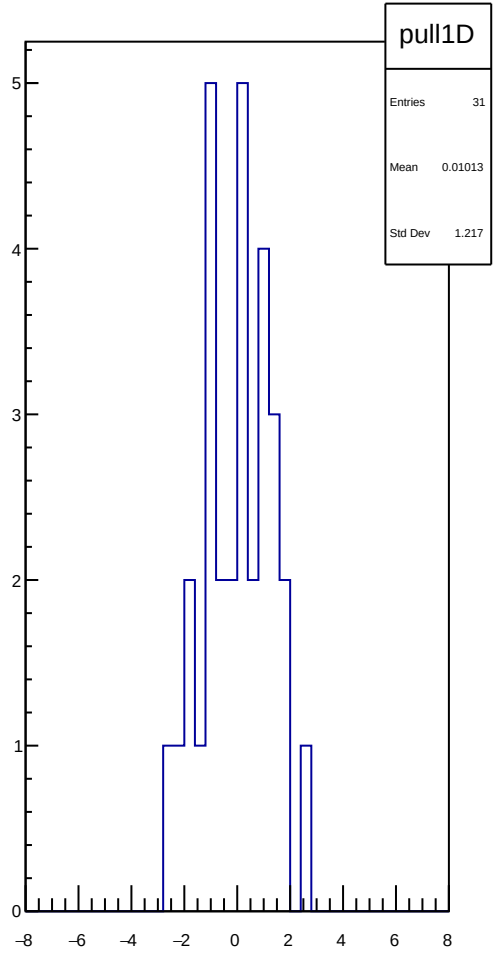

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 48.55 / 30
p0 1195 ± 1.549
1220
1210
1200
1190
1180
1170
1160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

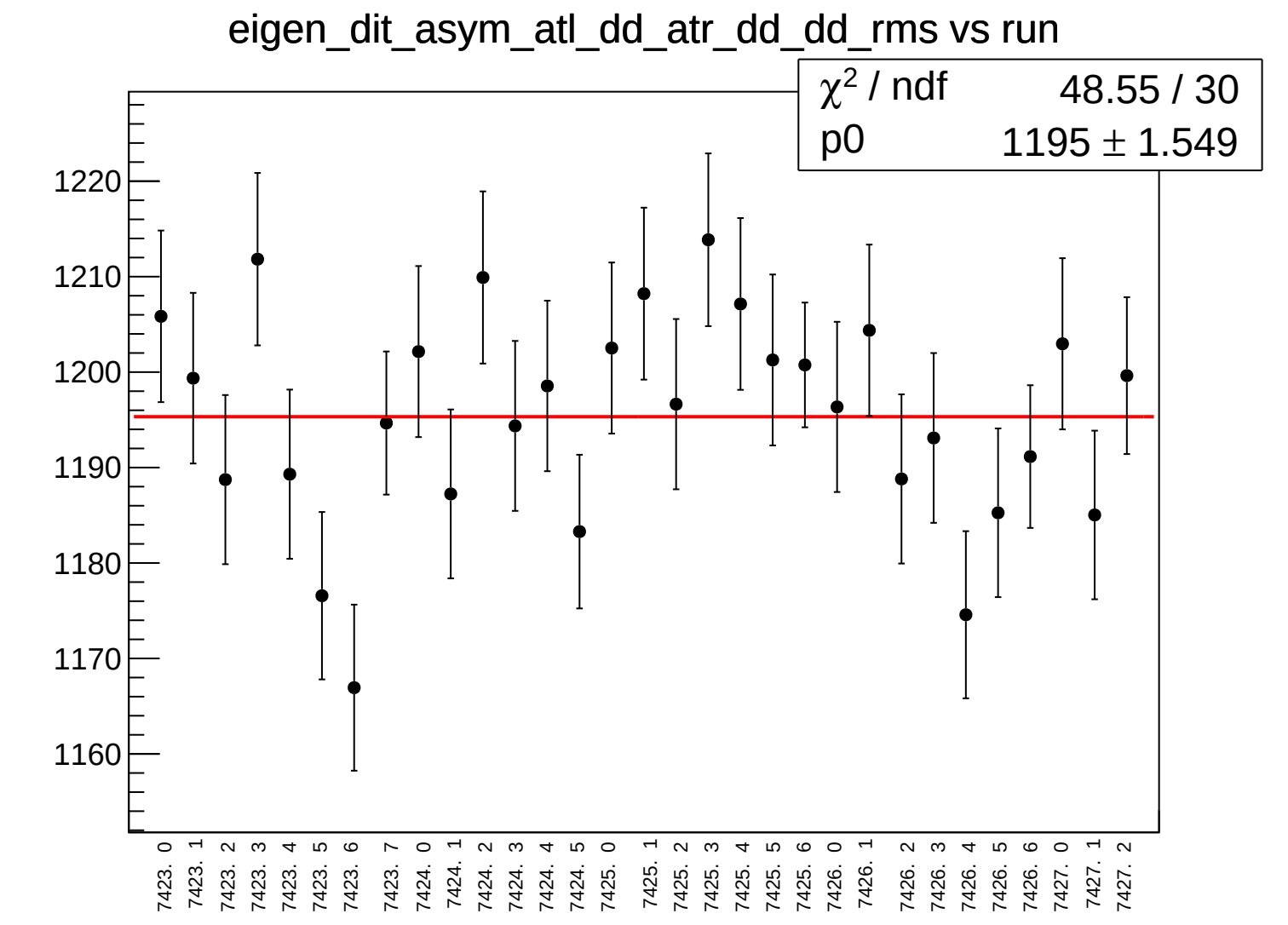

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 41.7 / 30
p0 −1571 ± 884.4
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean 0.0211
Std Dev 1.16
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1111 / 30
p0 482.2 ± 0.6254
540
520
500
480
460
440
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 45.92 / 30
p0 144 ± 2191
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −111.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 31
Mean 0.01013
Std Dev 1.217
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 48.55 / 30
p0 1195 ± 1.549
1220
1210
1200
1190
1180
1170
1160
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
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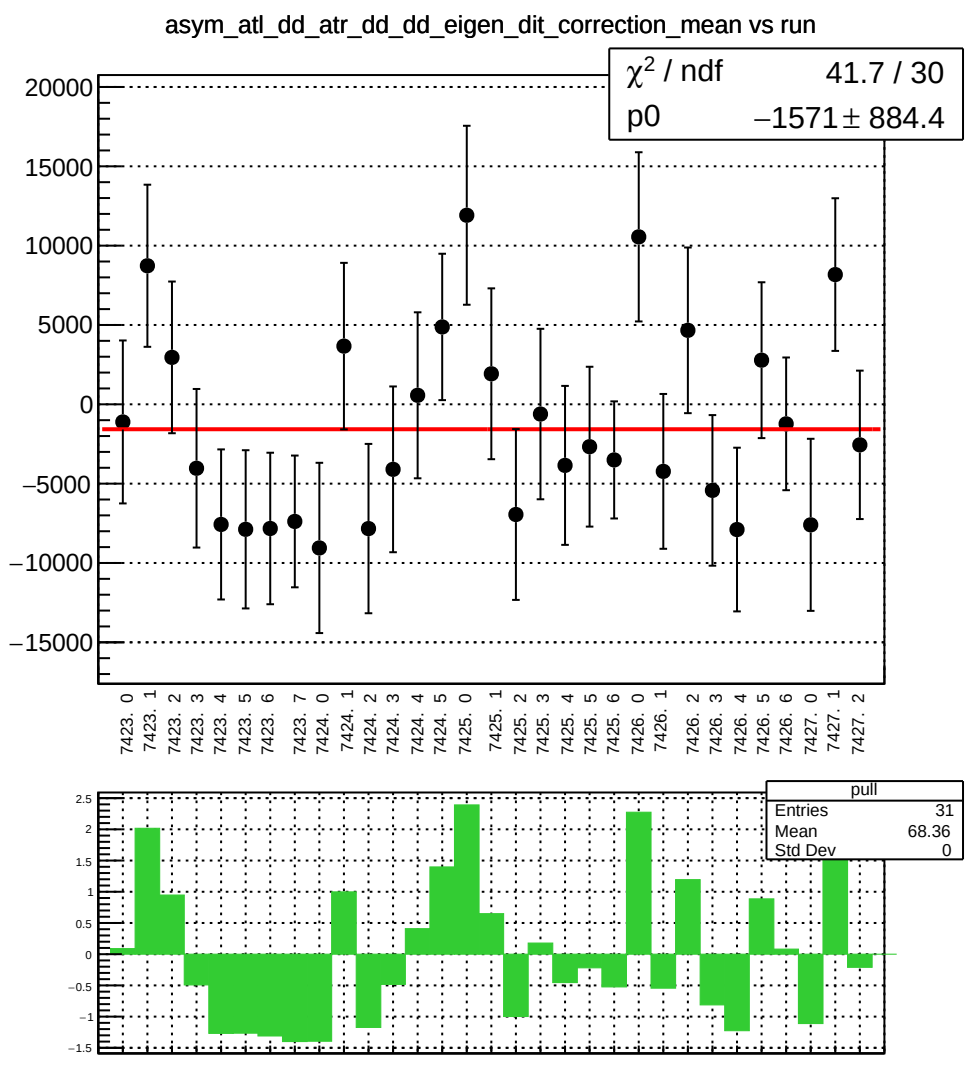
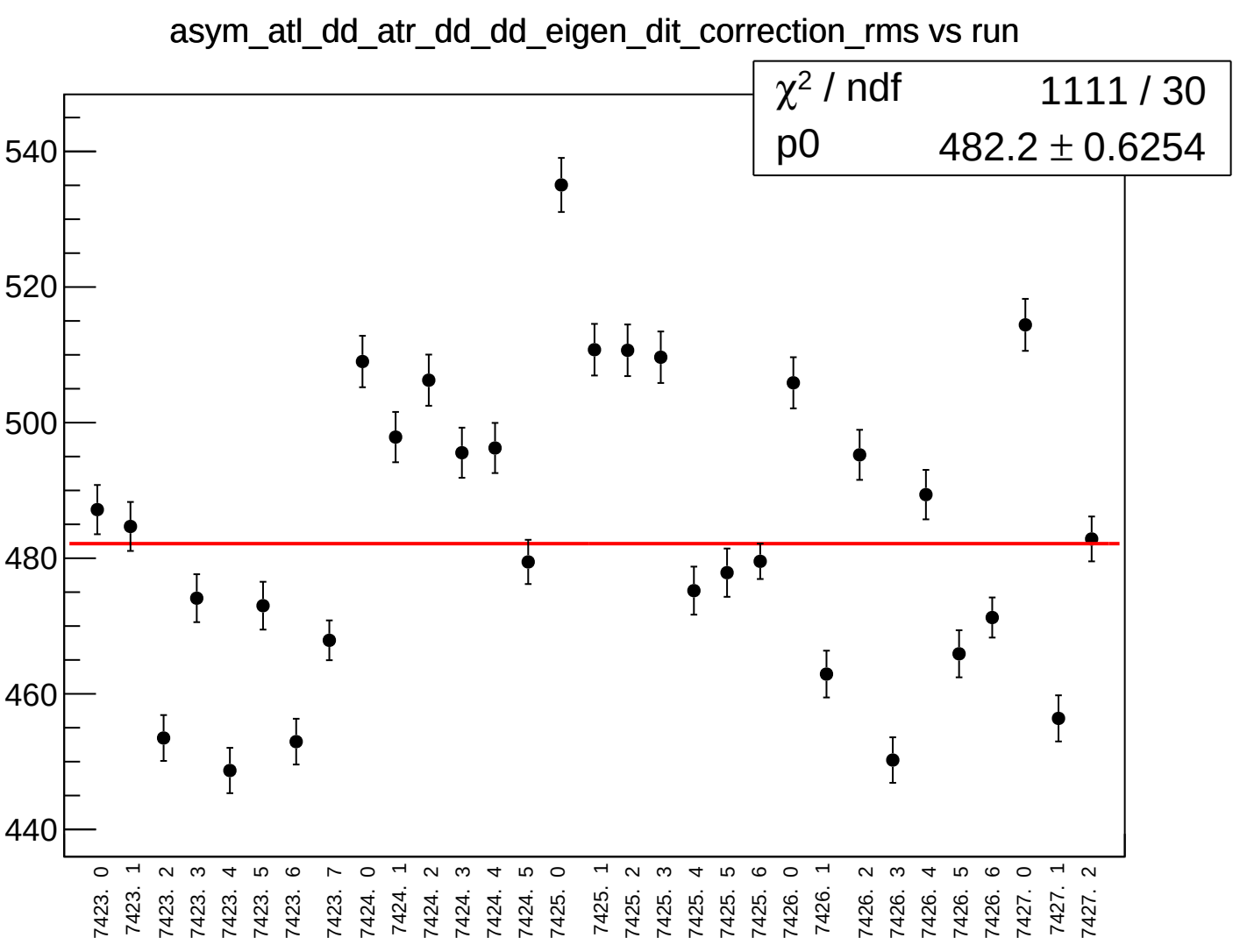
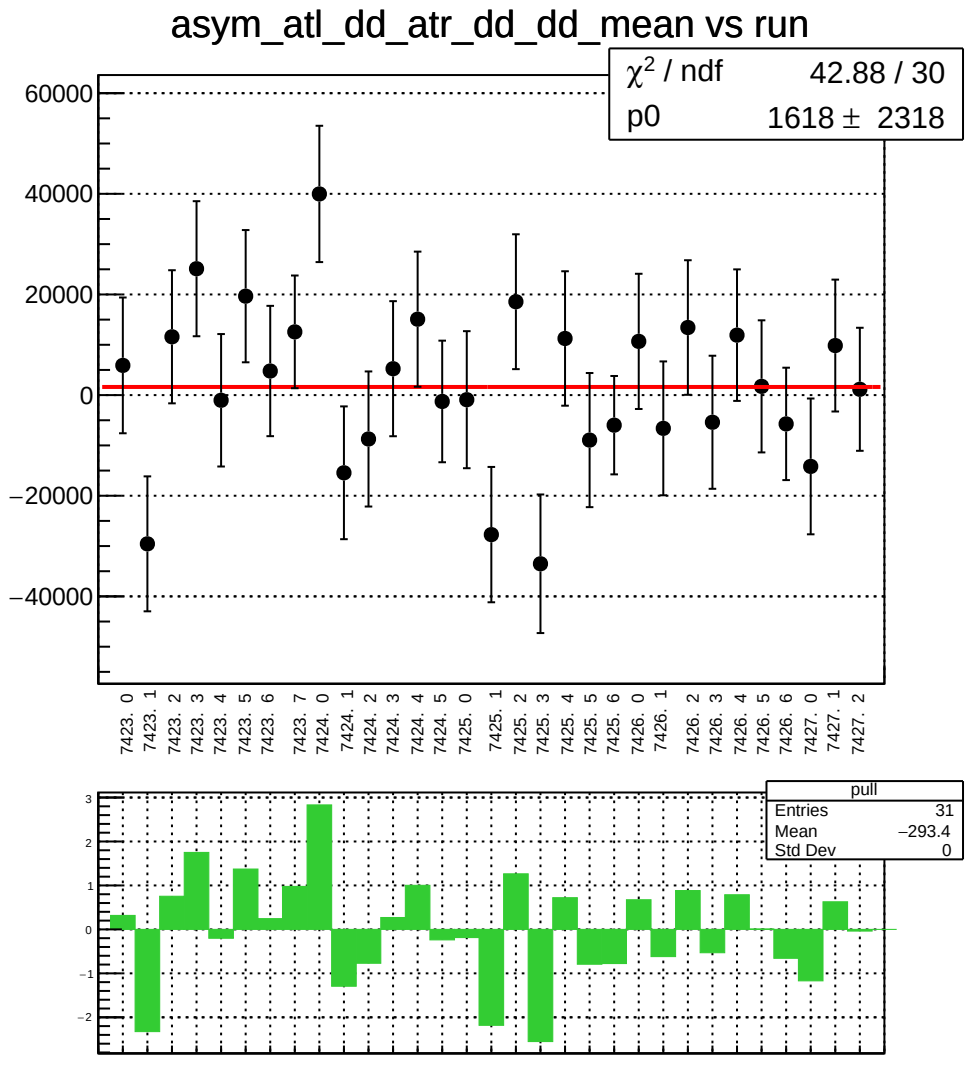
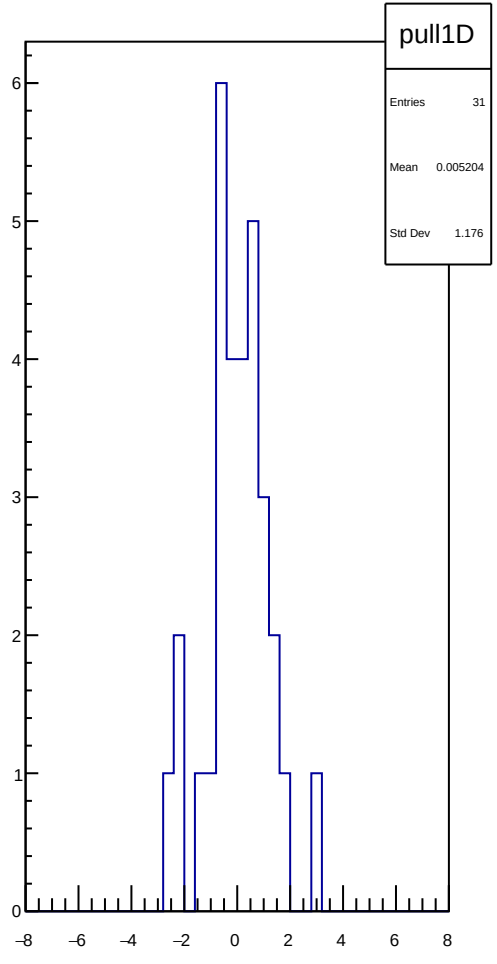
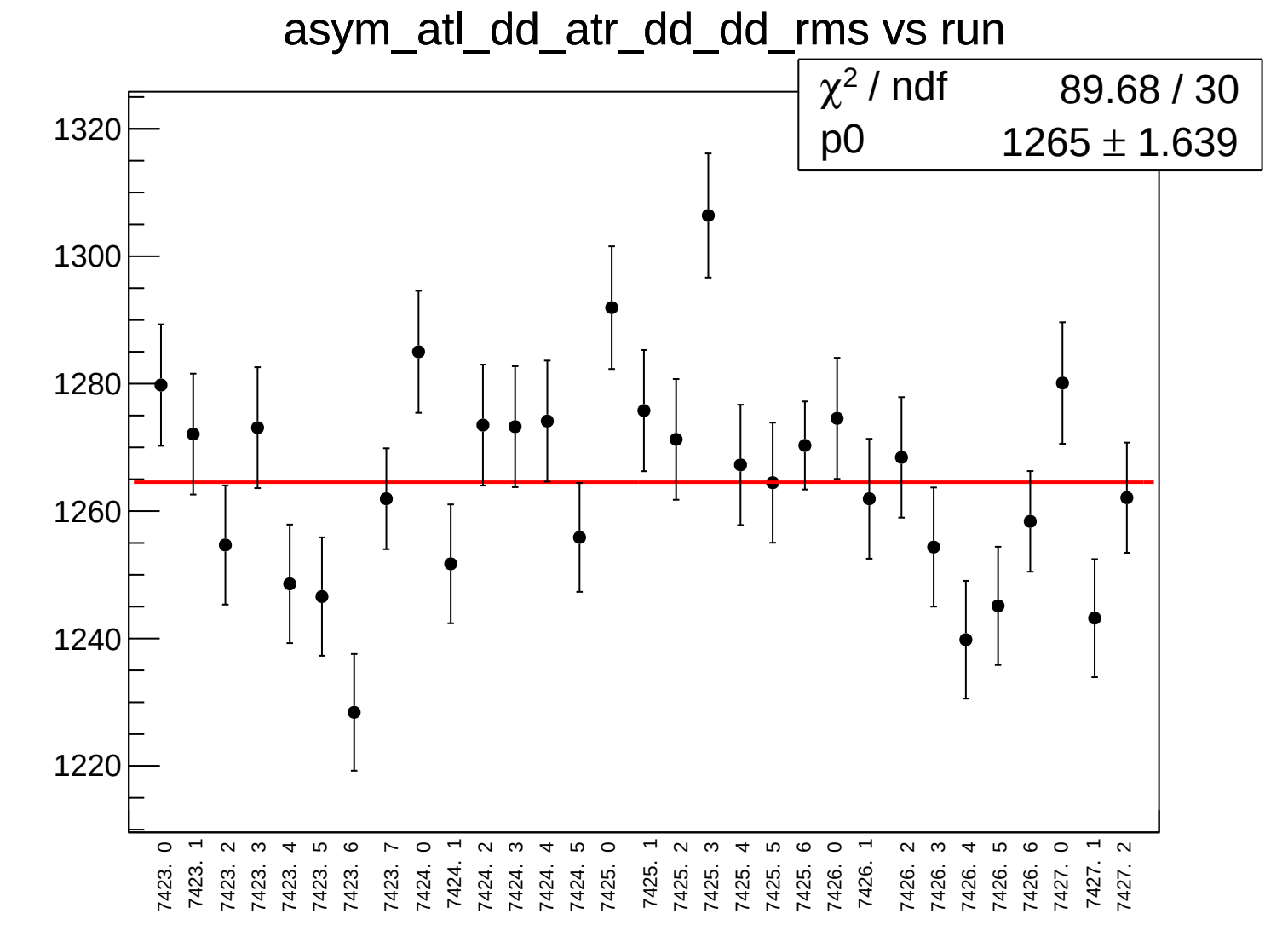
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

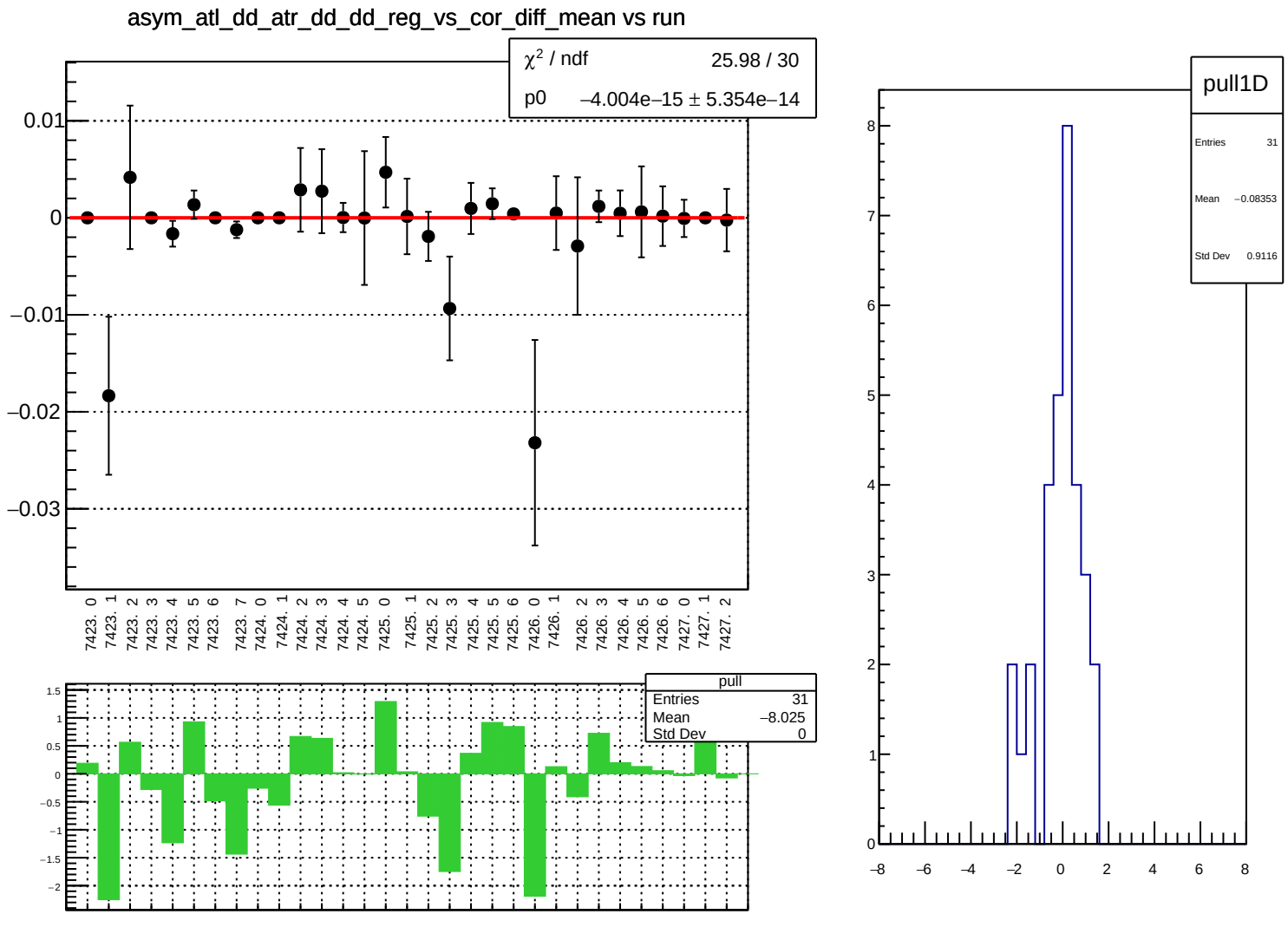

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 41.7 / 30
p0 −1571 ± 884.4
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.0211
Std Dev 1.16
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

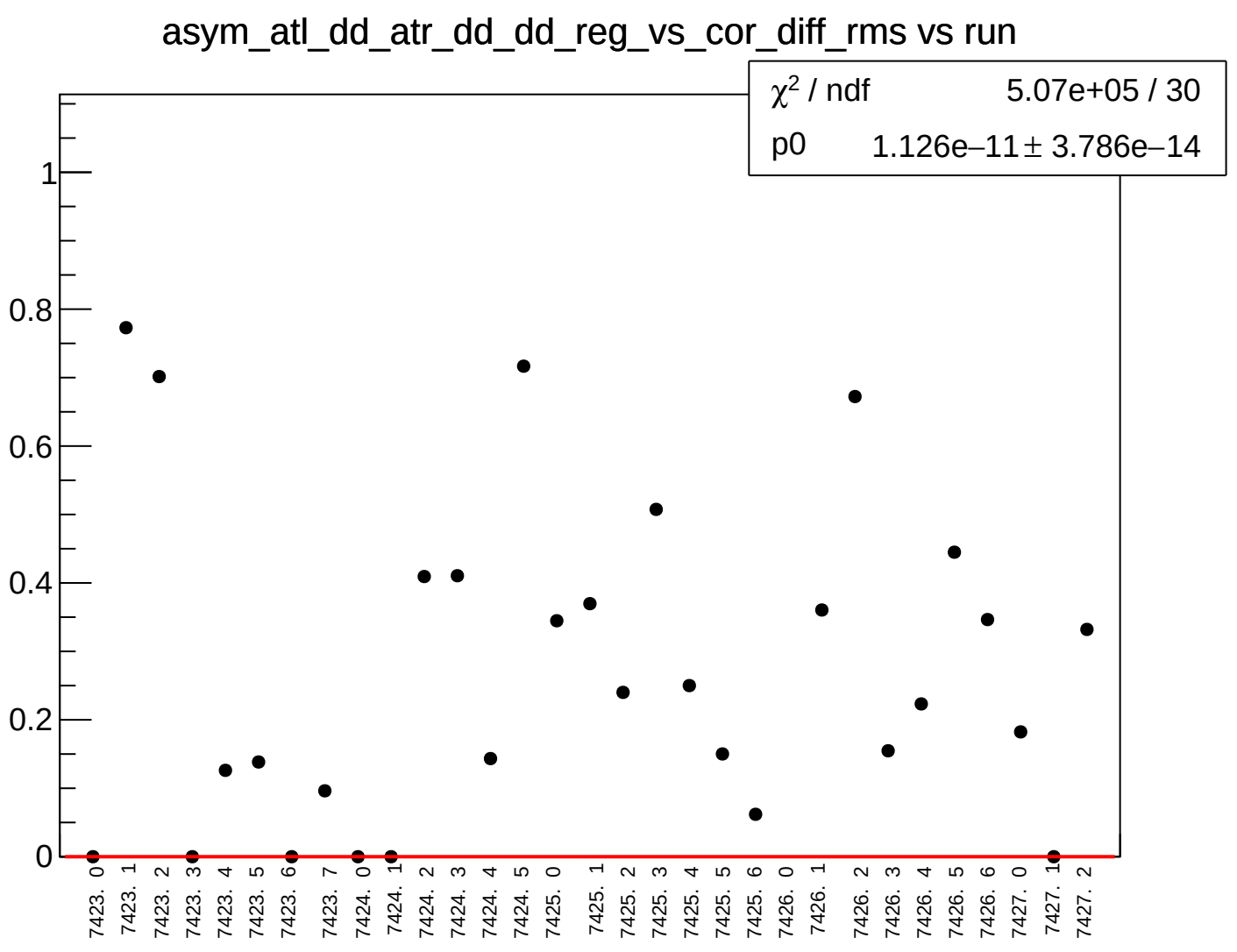

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1111 / 30
p0 482.2 ± 0.6254
540
520
500
480
460
440
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

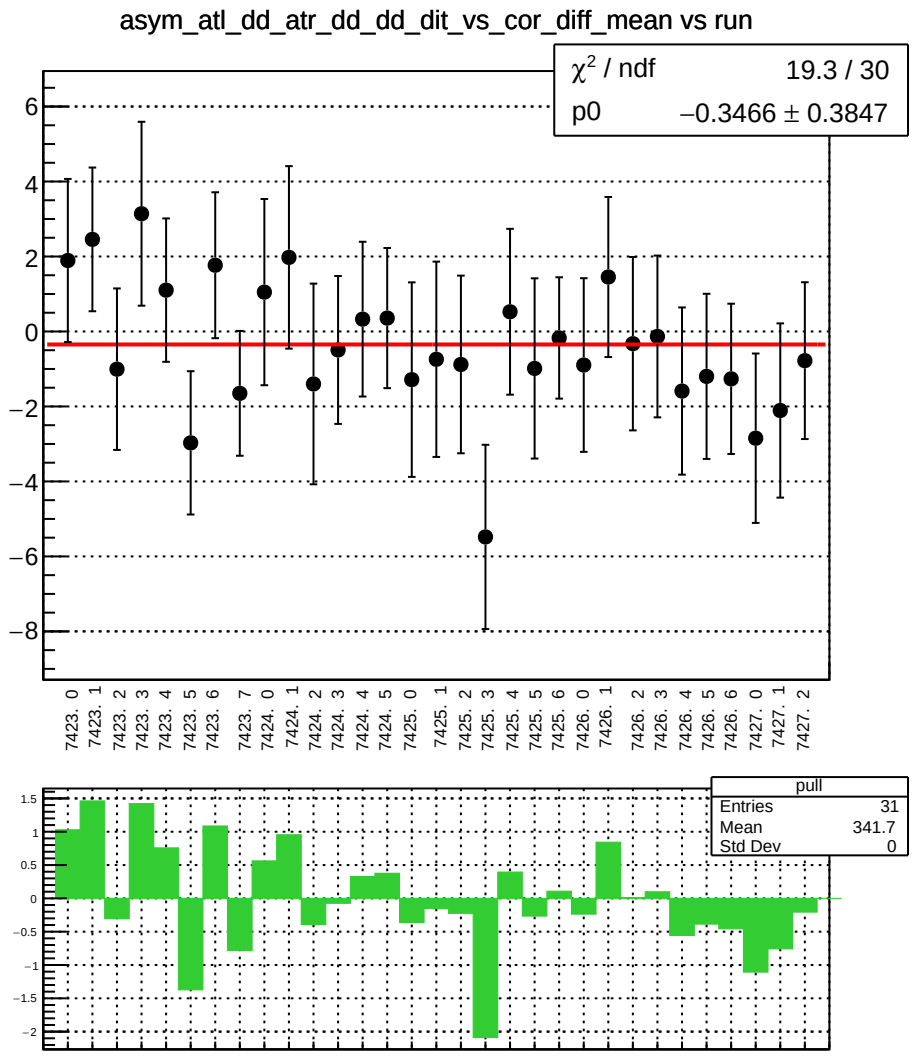

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 42.88 / 30
p0 1618 ± 2318
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −293.4
Std Dev 0
3
2
1
0
−1
−2

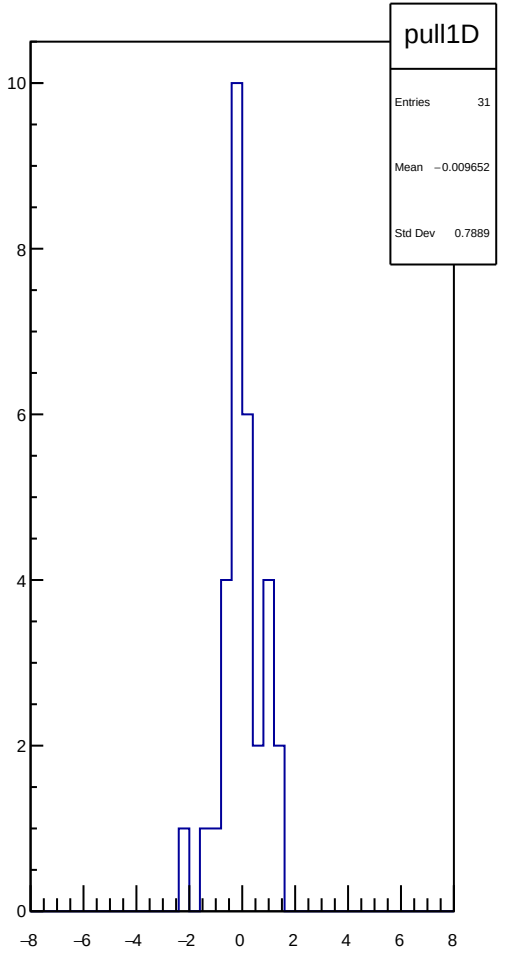

pull1D
Entries 31
Mean 0.005204
Std Dev 1.176
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

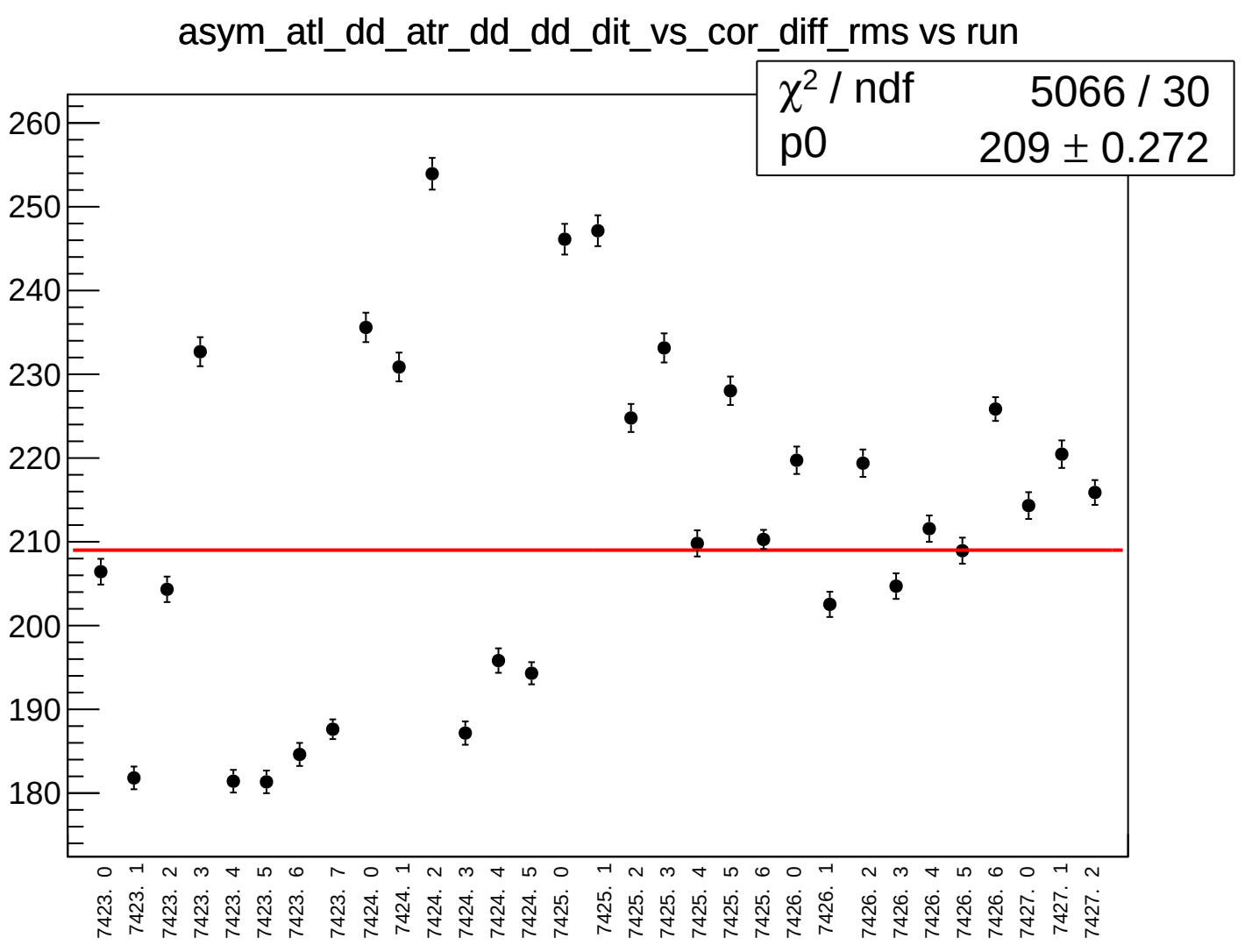

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 89.68 / 30
p0 1265 ± 1.639
1320
1300
1280
1260
1240
1220
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

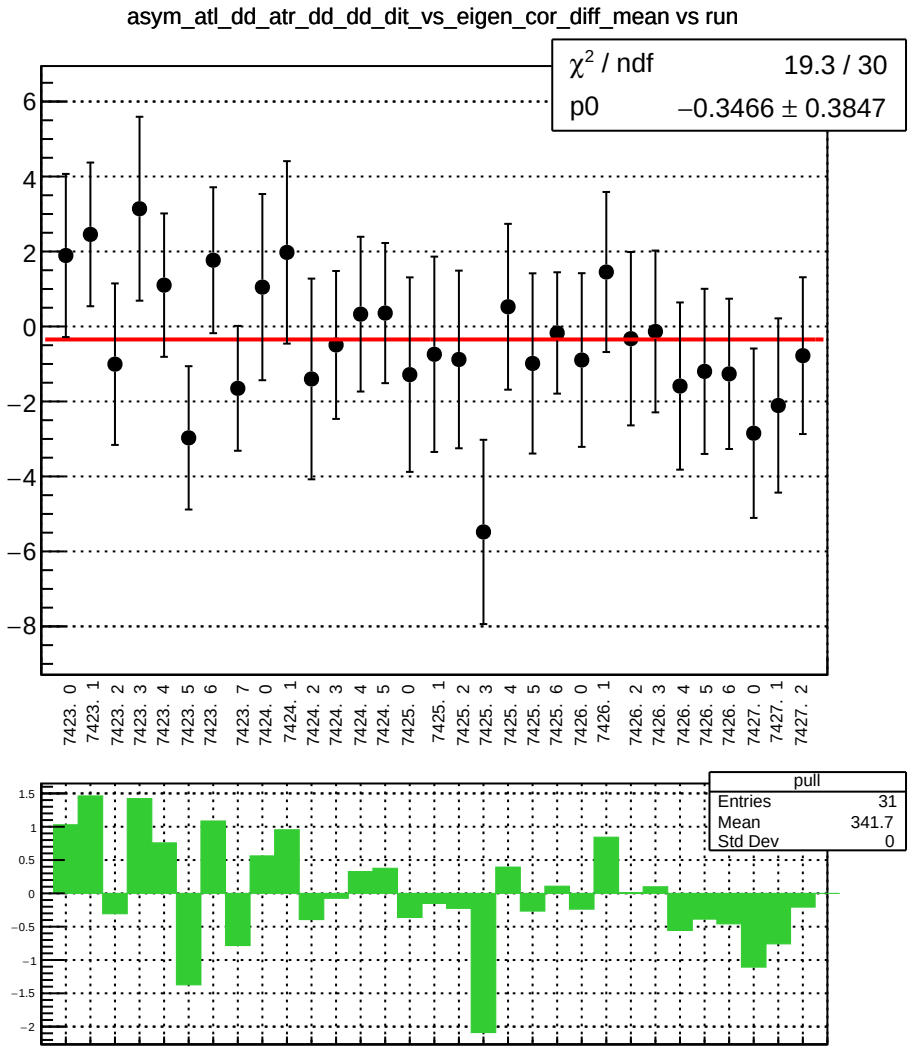

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.98 / 30
p0 −4.004e−15 ± 5.354e−14
0.01
0
−0.01
−0.02
−0.03
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −8.025
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.08353
Std Dev 0.9116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

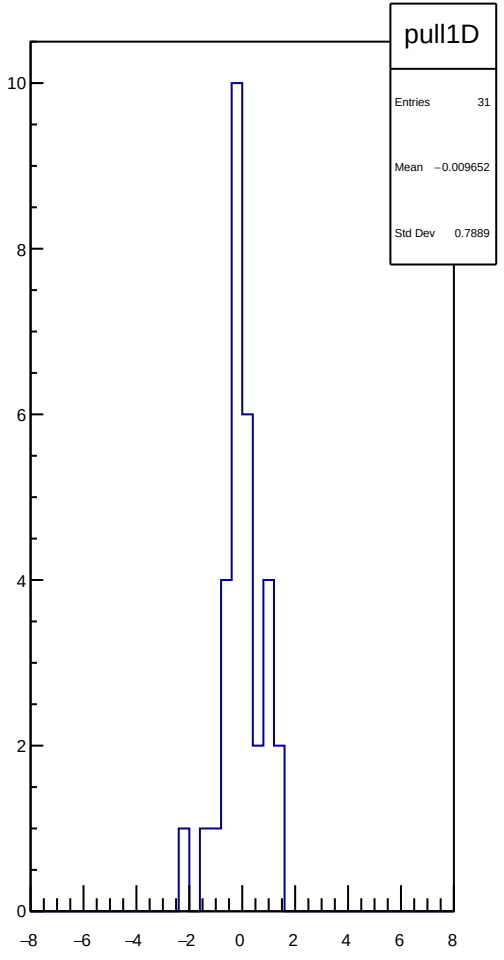

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.07e+05 / 30
p0 1.126e−11 ± 3.786e−14
1
0.8
0.6
0.4
0.2
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

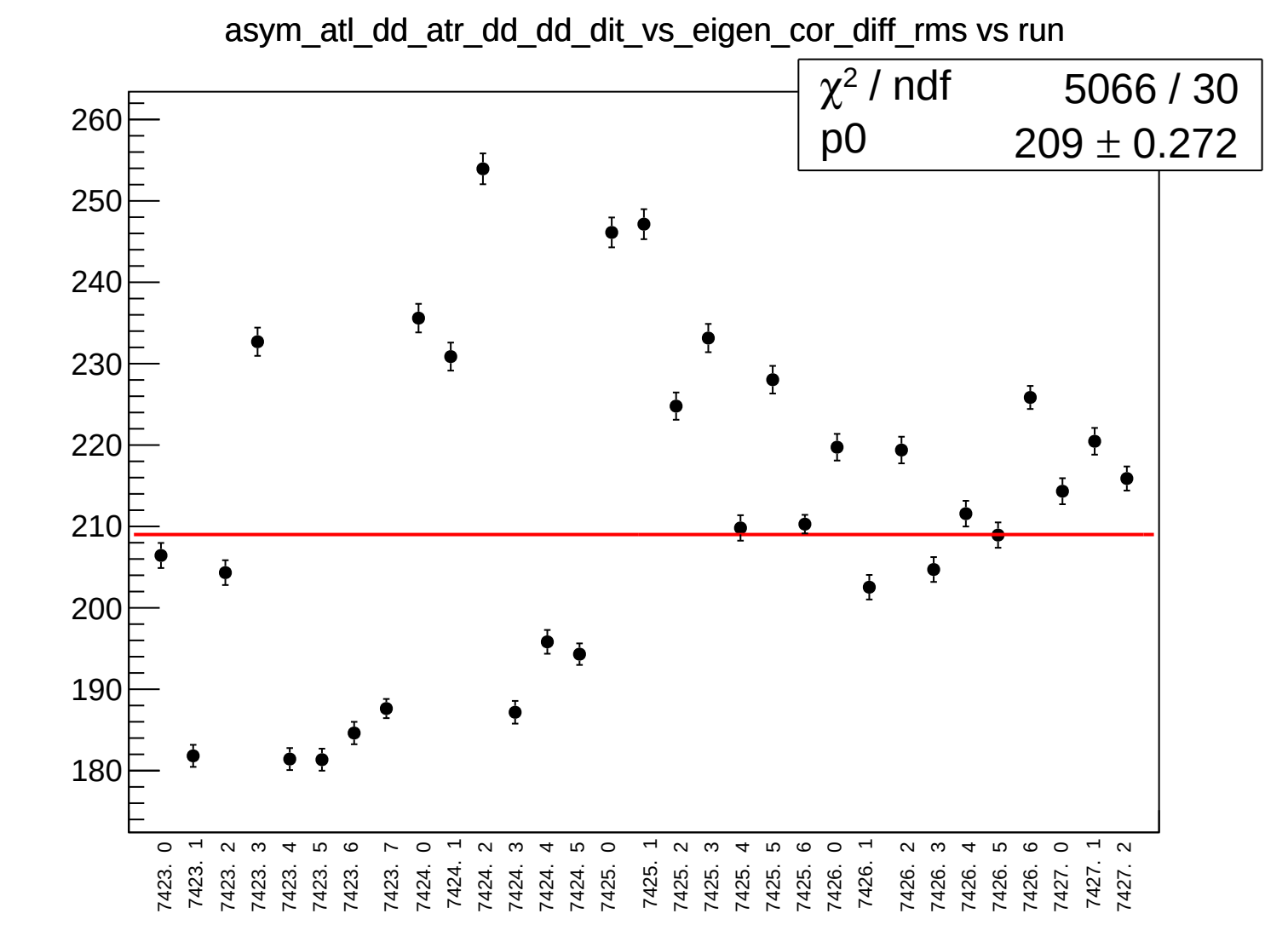

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 19.3 / 30
p0 −0.3466 ± 0.3847
pull
Entries 31
Mean 341.7
Std Dev 0


pull1D
Entries 31
Mean −0.009652
Std Dev 0.7889

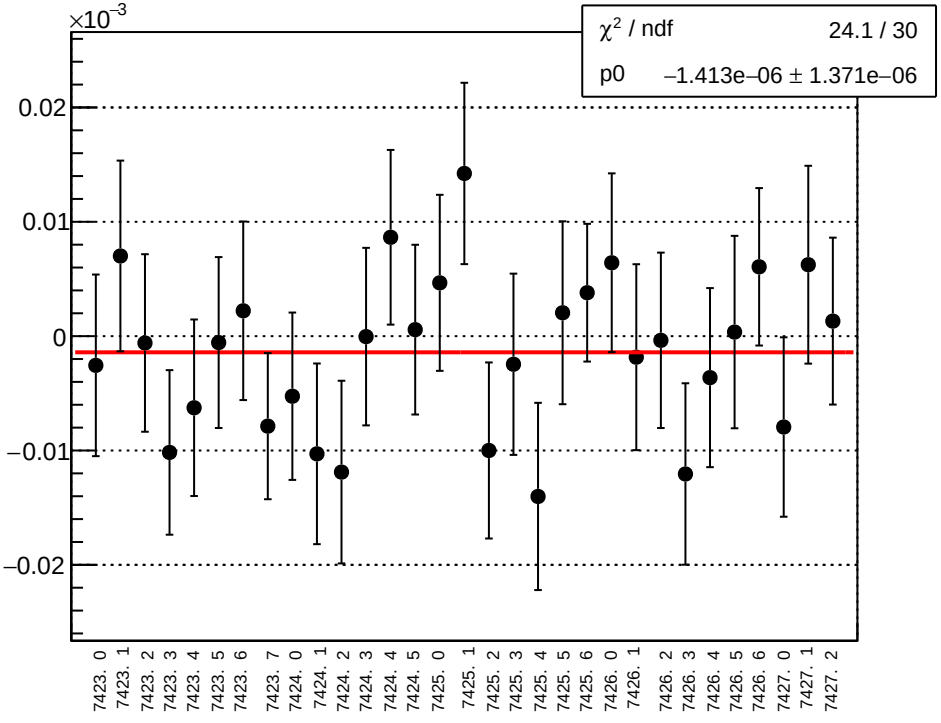

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5066 / 30
p0 209 ± 0.272
260
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

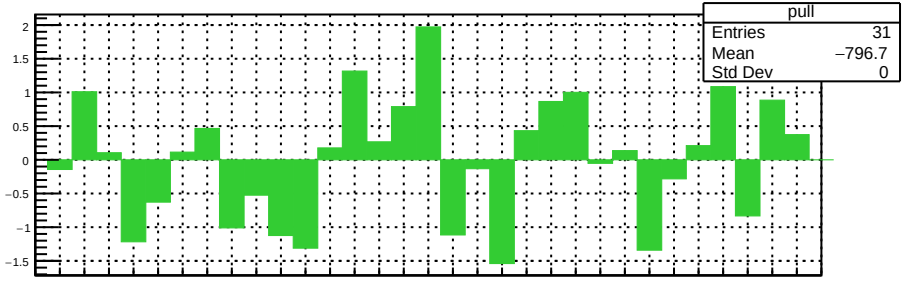

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.3 / 30
p0 −0.3466 ± 0.3847
6
4
2
0
−2
−4
−6
−8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 341.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

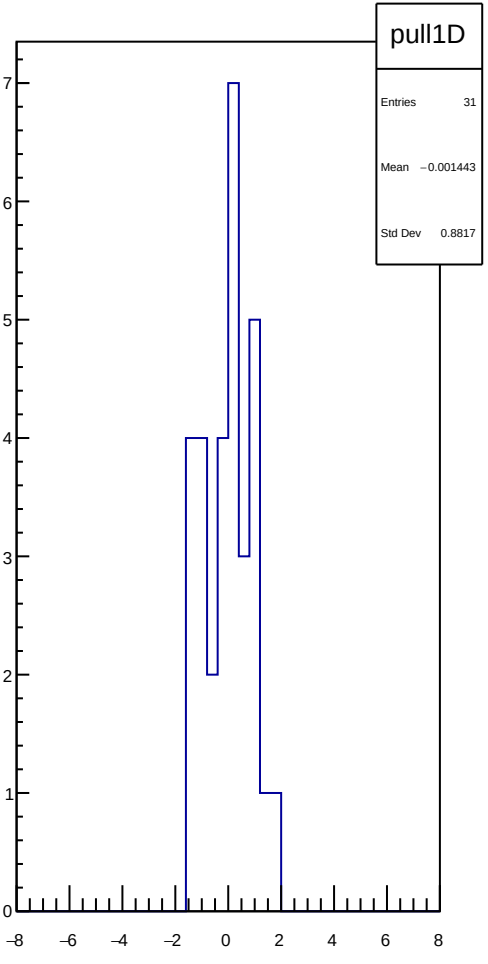

pull1D
Entries 31
Mean −0.009652
Std Dev 0.7889
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

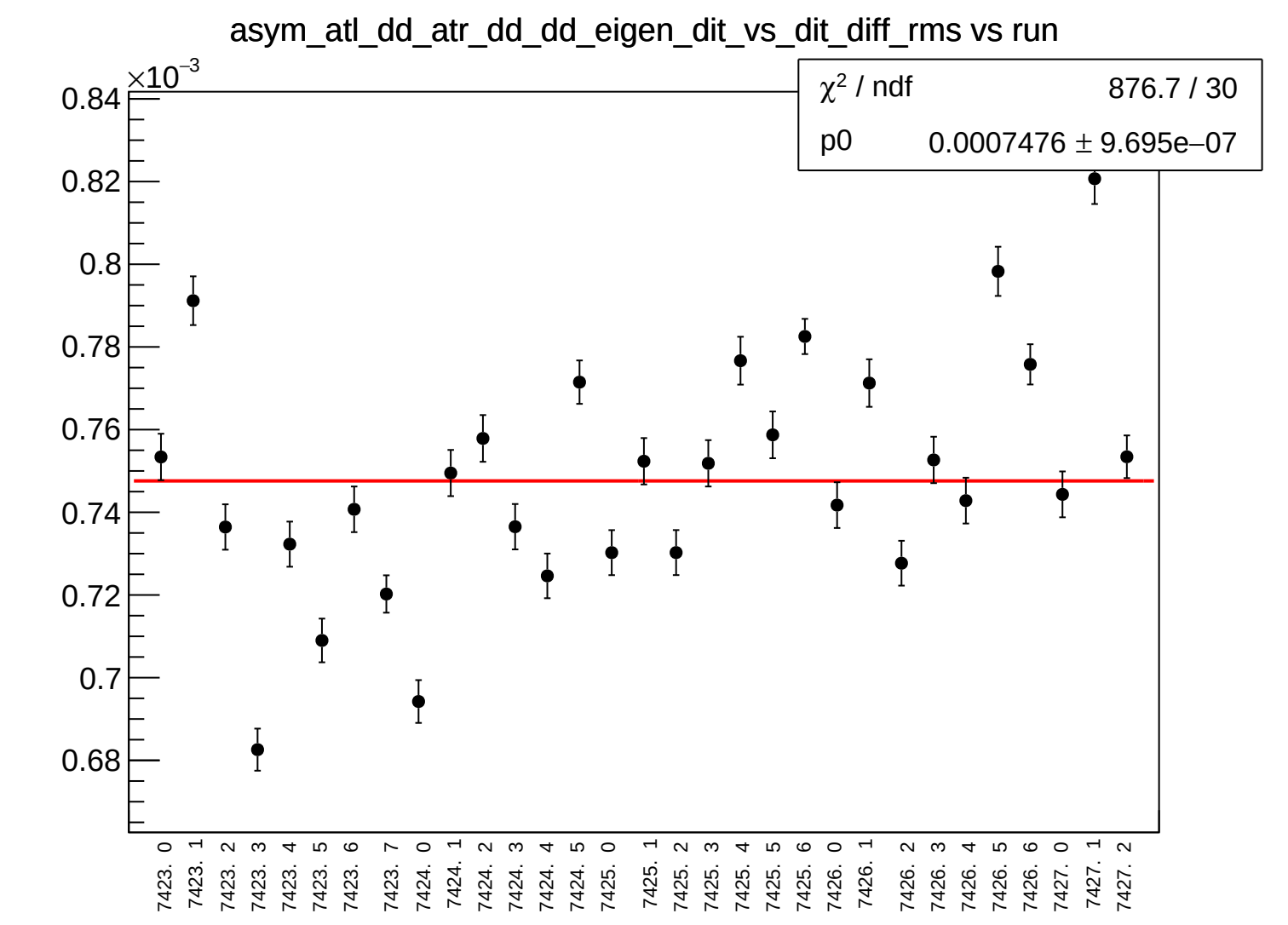

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5066 / 30
p0 209 ± 0.272
260
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run

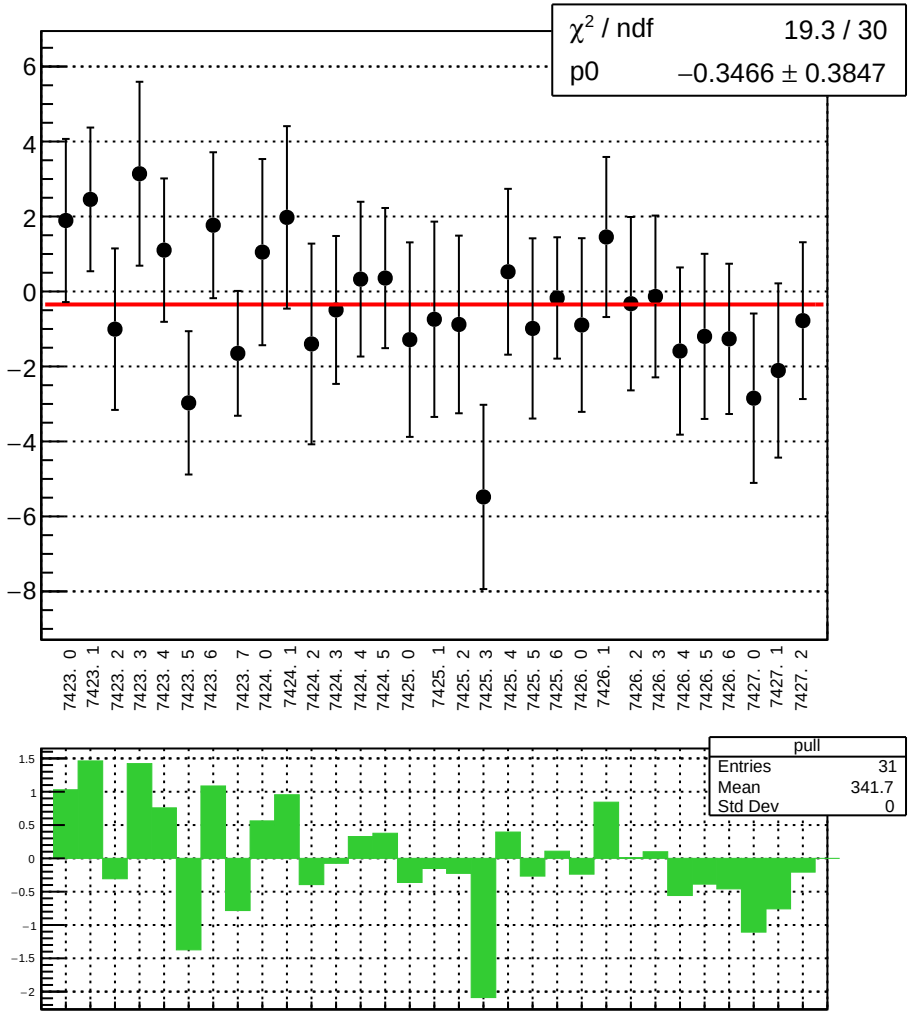


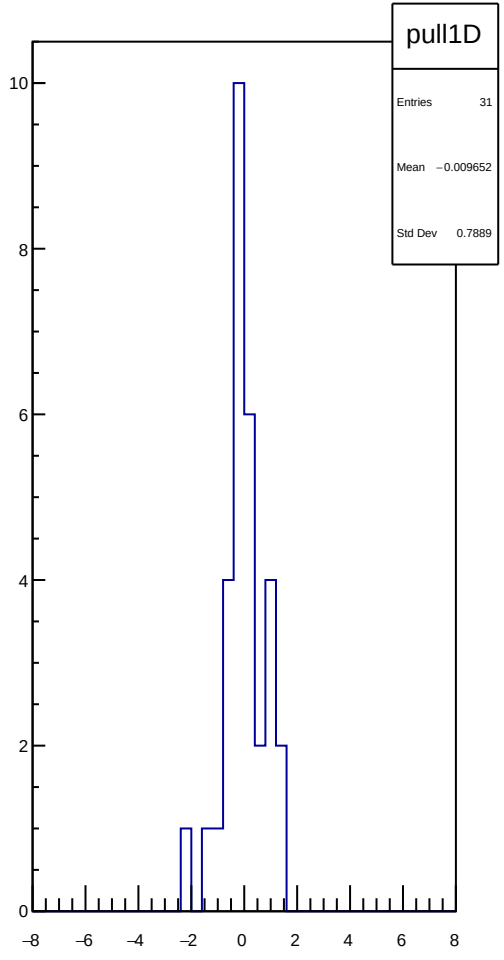


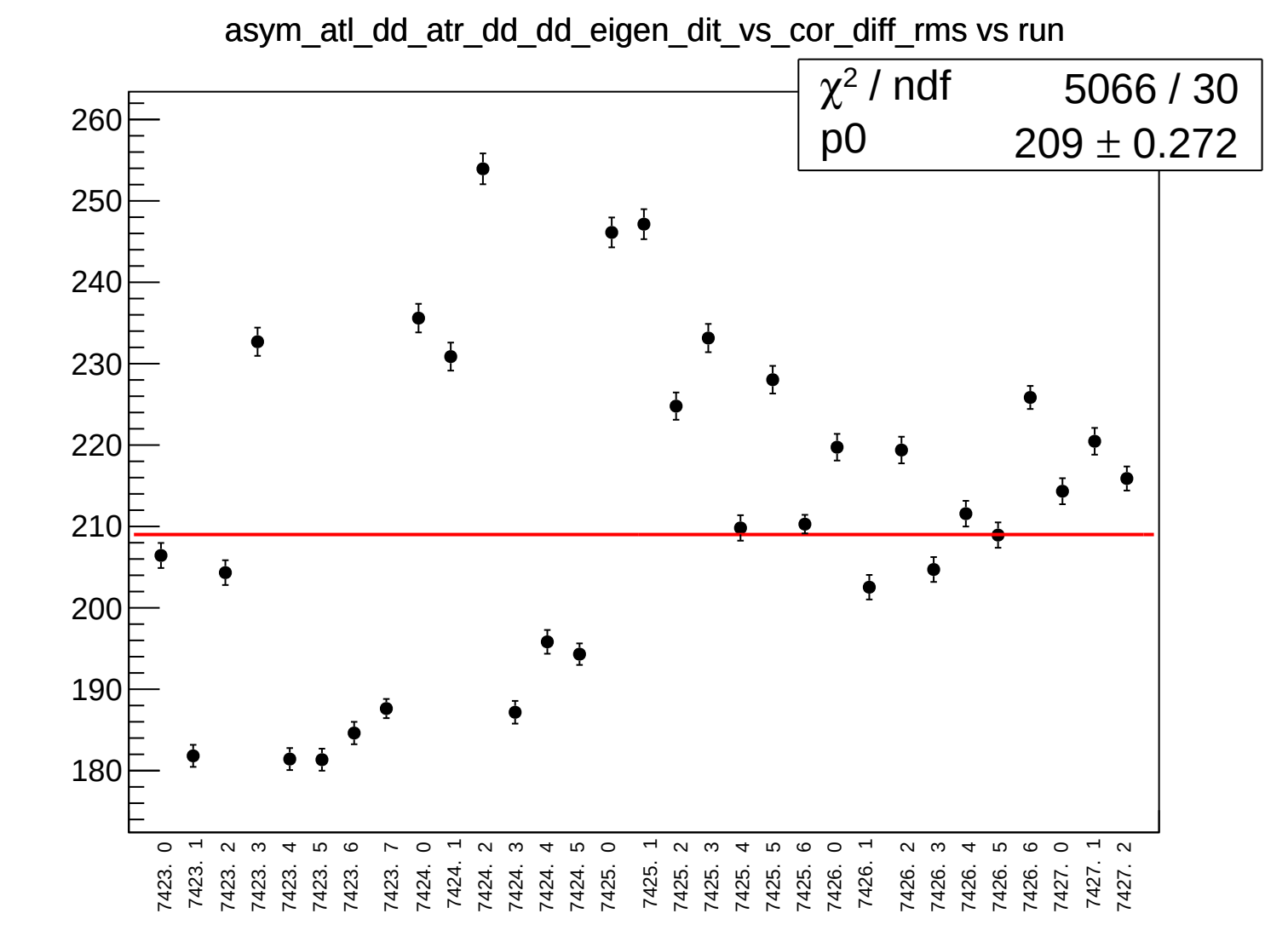


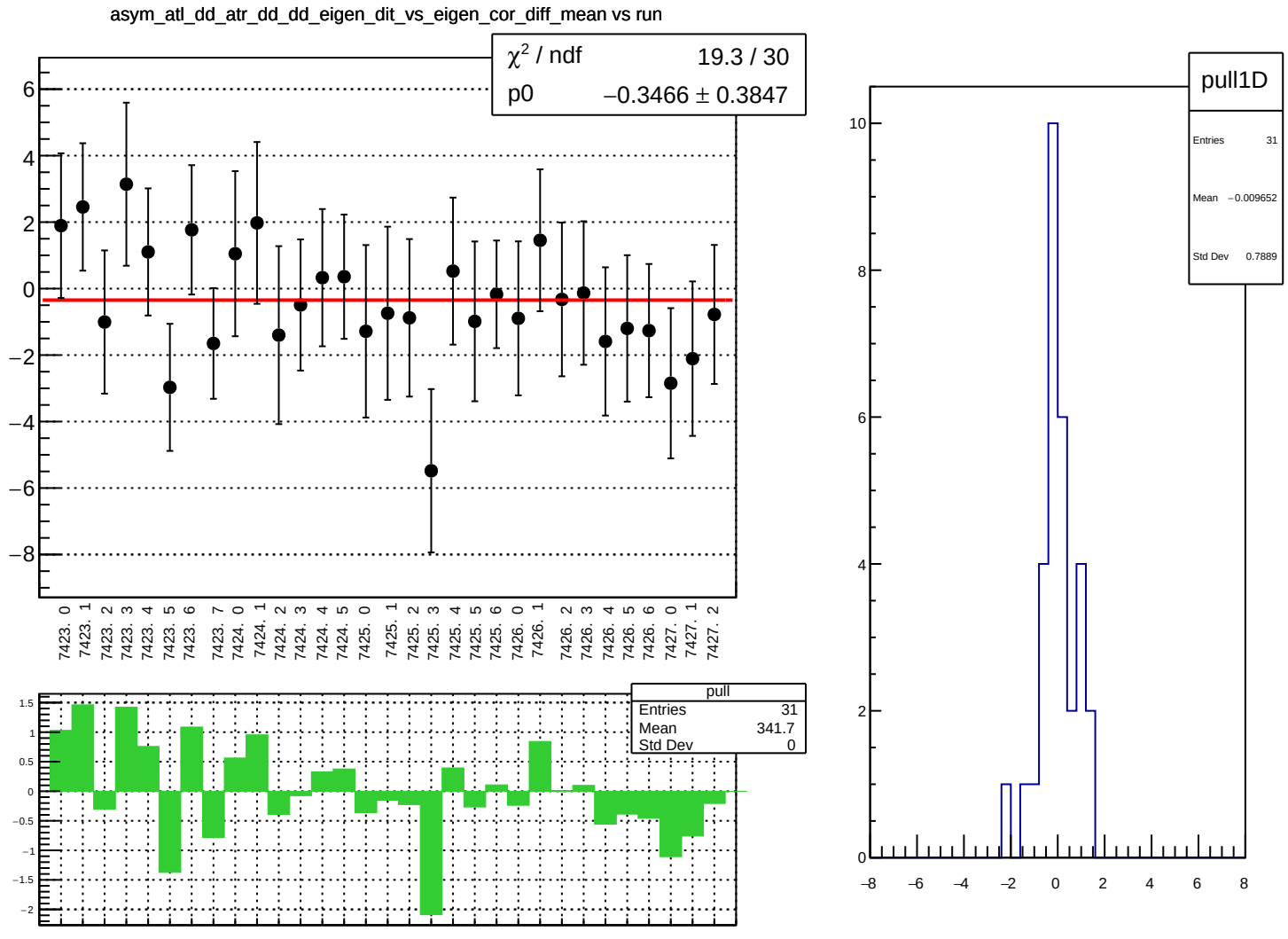

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 876.7 / 30
p0 0.0007476 ± 9.695e−07
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

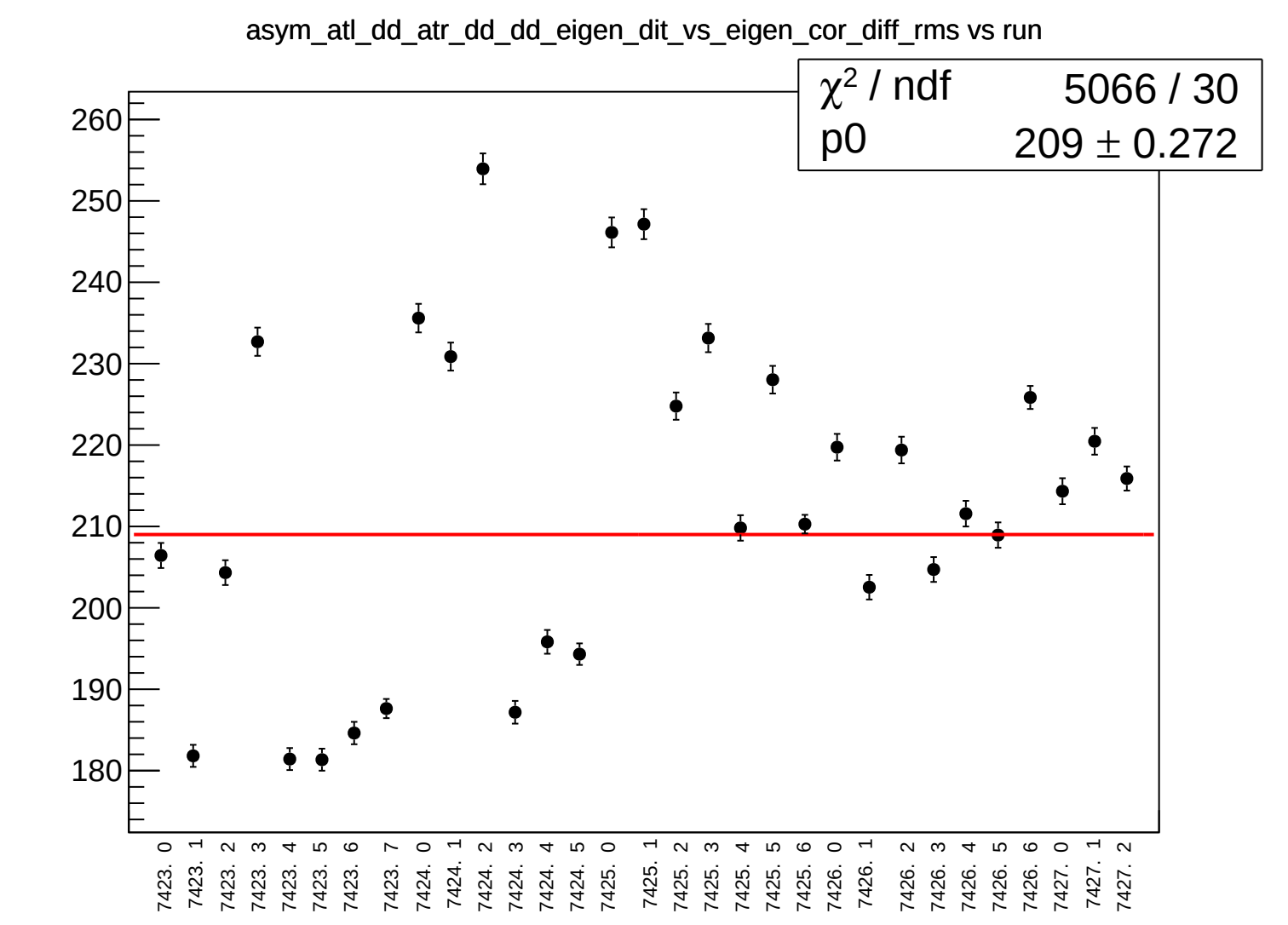
asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run

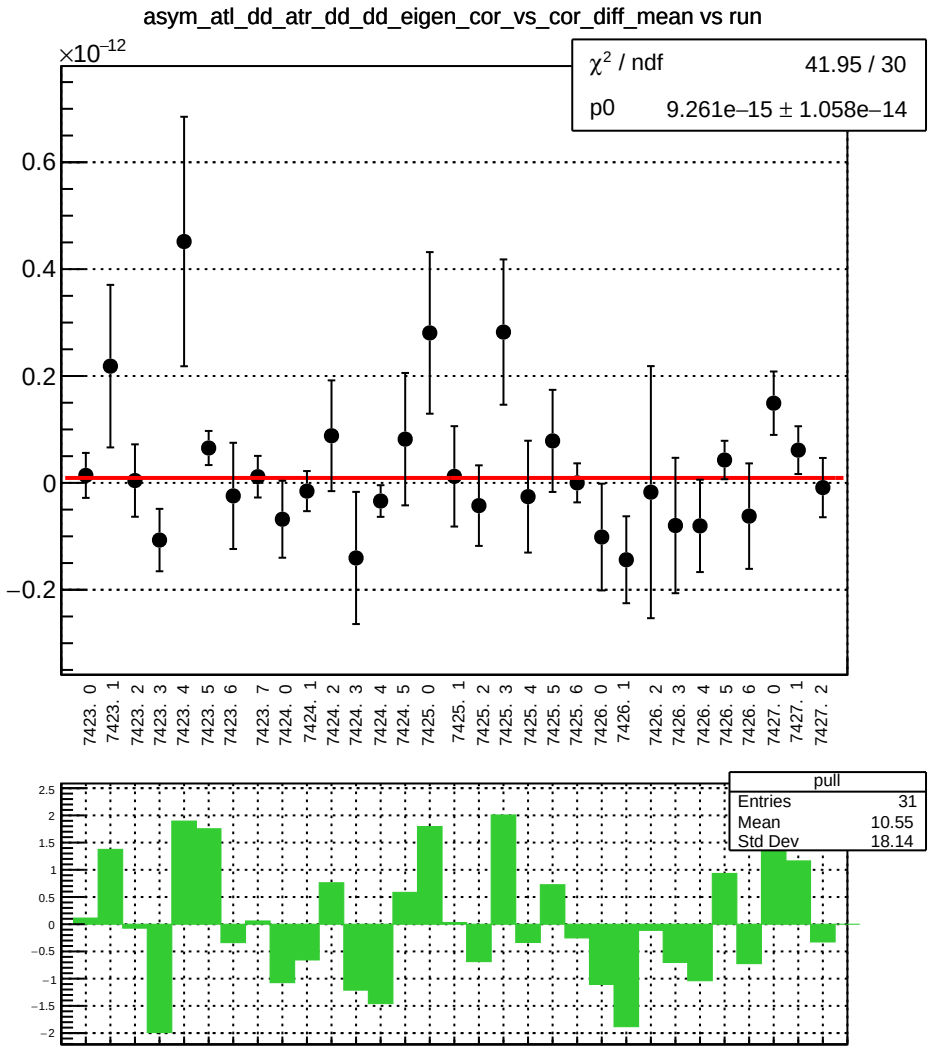


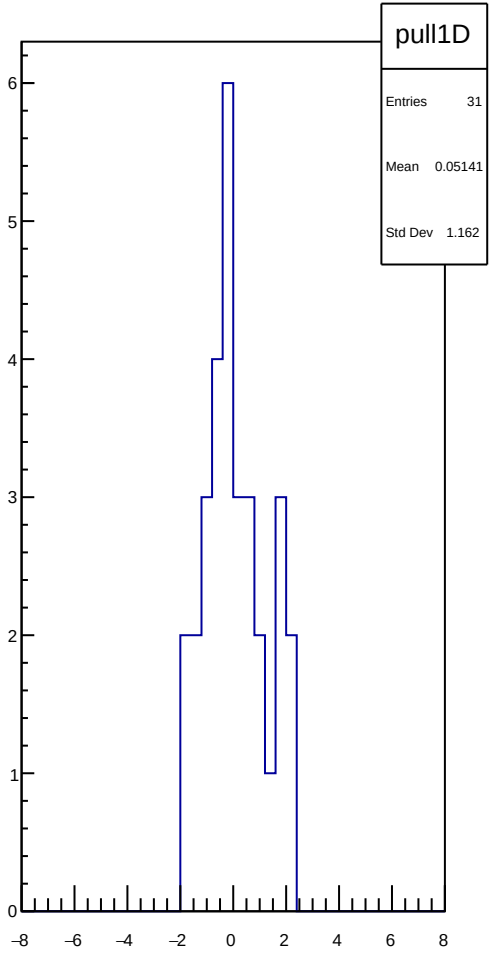


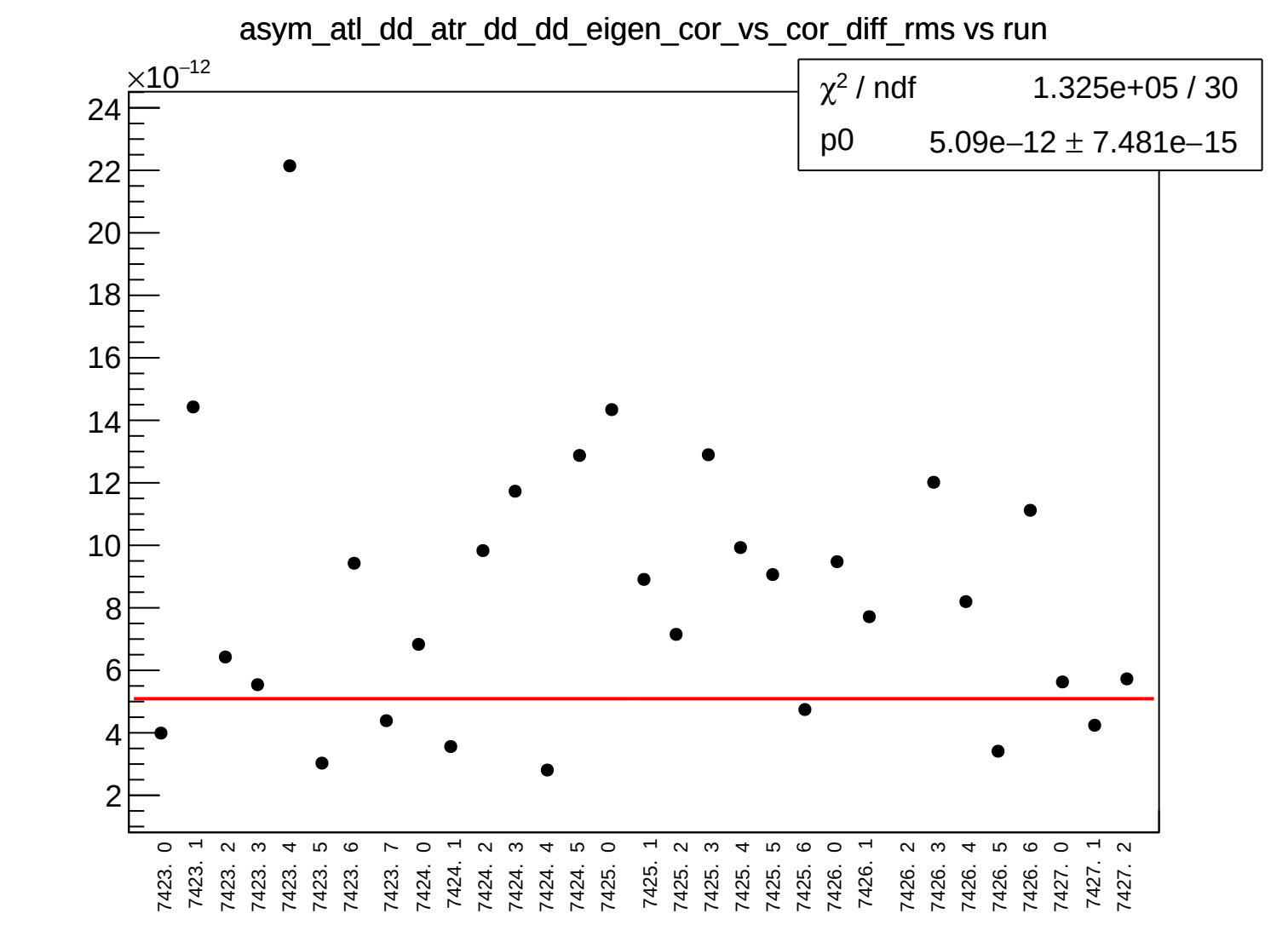

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5066 / 30
p0 209 ± 0.272
260
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

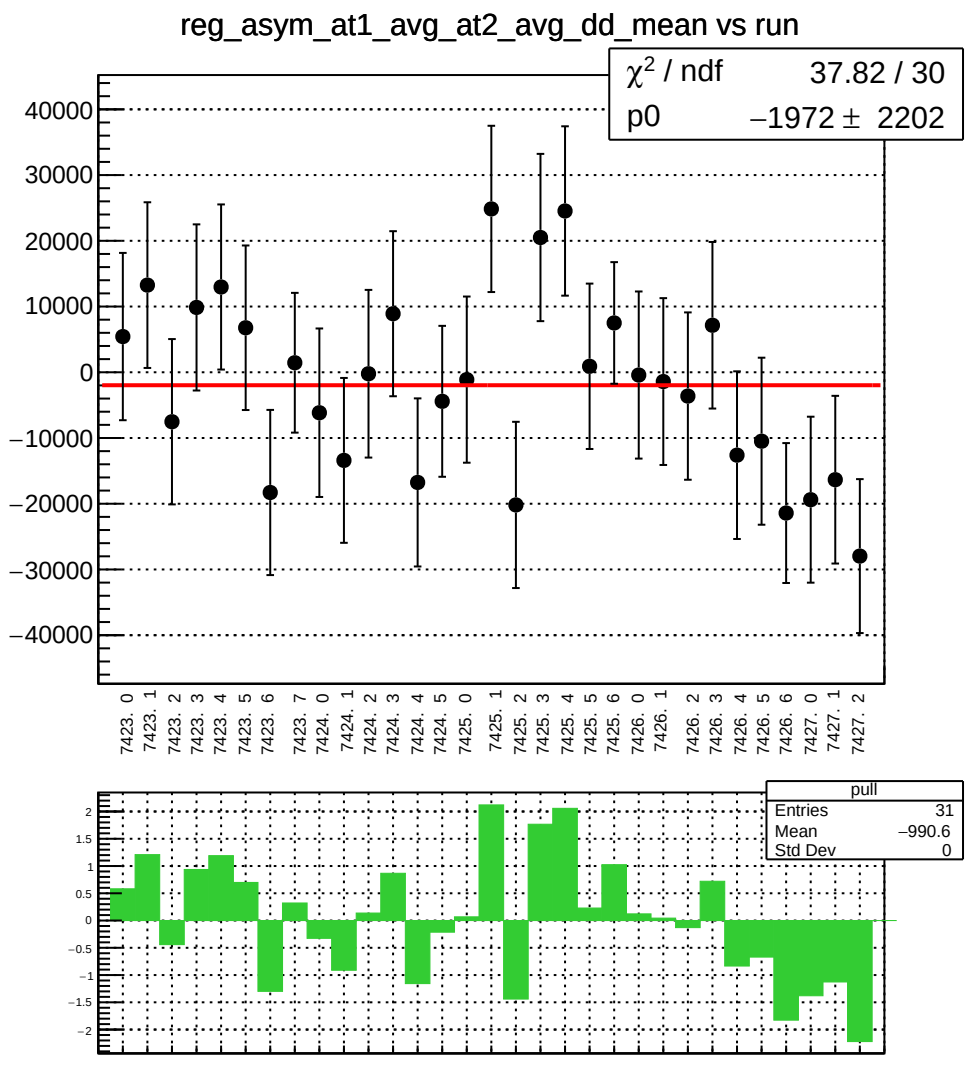

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.3 / 30
p0 −0.3466 ± 0.3847
6
4
2
0
−2
−4
−6
−8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 341.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.009652
Std Dev 0.7889
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

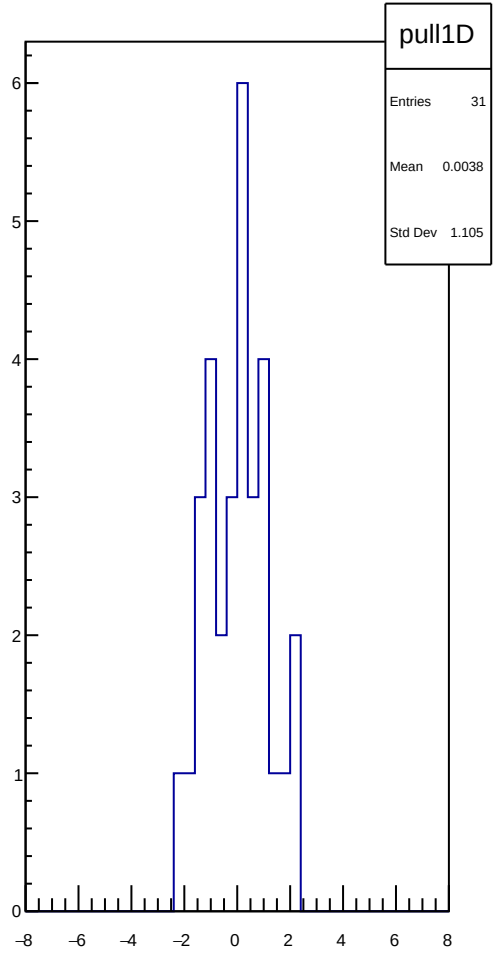

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5066 / 30
p0 209 ± 0.272
260
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

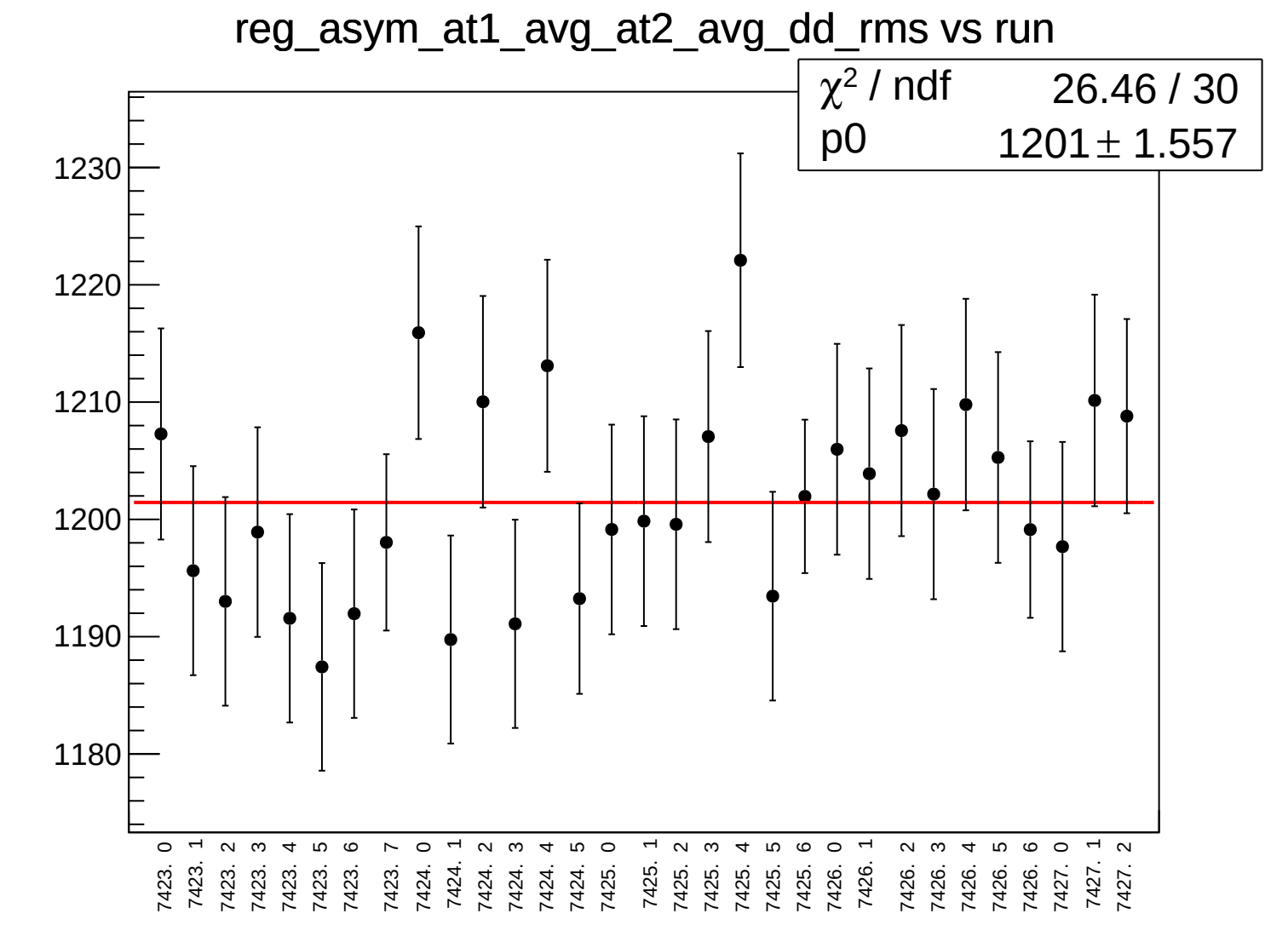

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 41.95 / 30
p0 9.261e−15 ± 1.058e−14
0.6
0.4
0.2
0
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 10.55
Std Dev 18.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

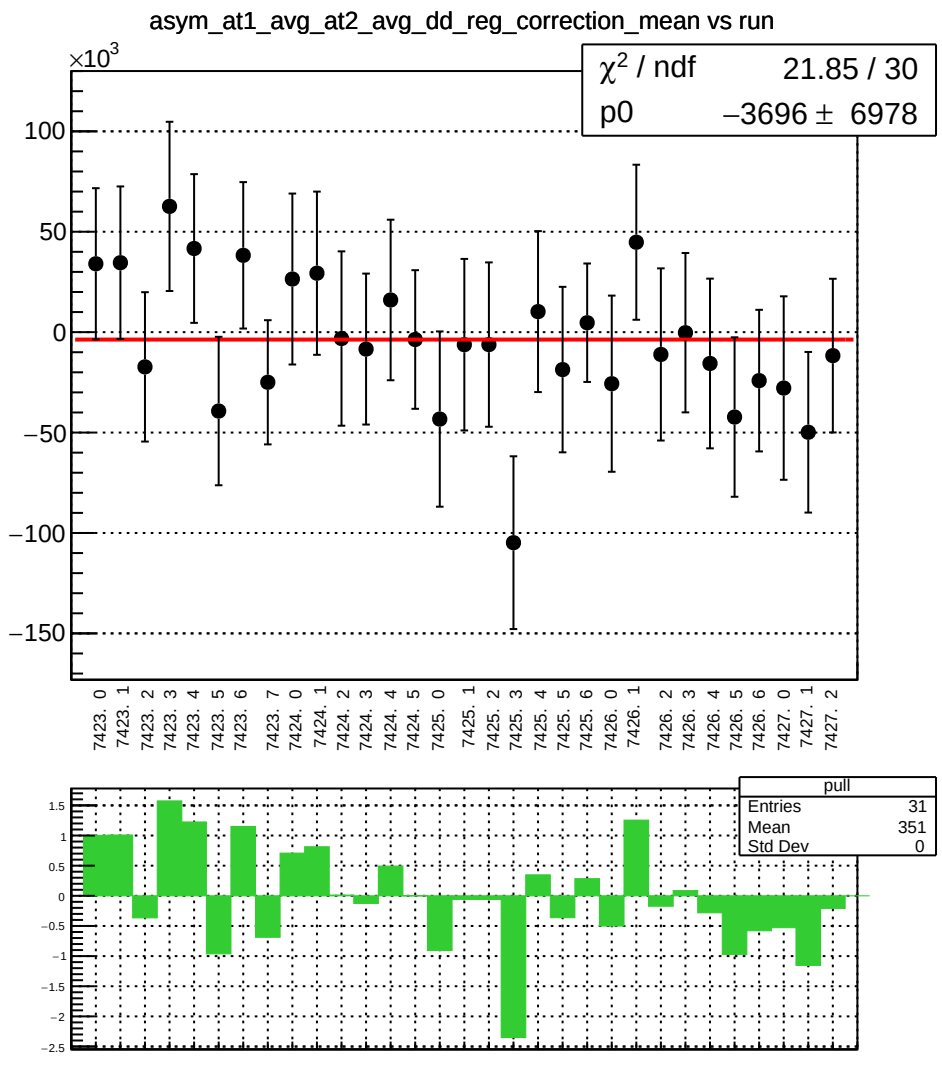

pull1D
Entries 31
Mean 0.05141
Std Dev 1.162
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

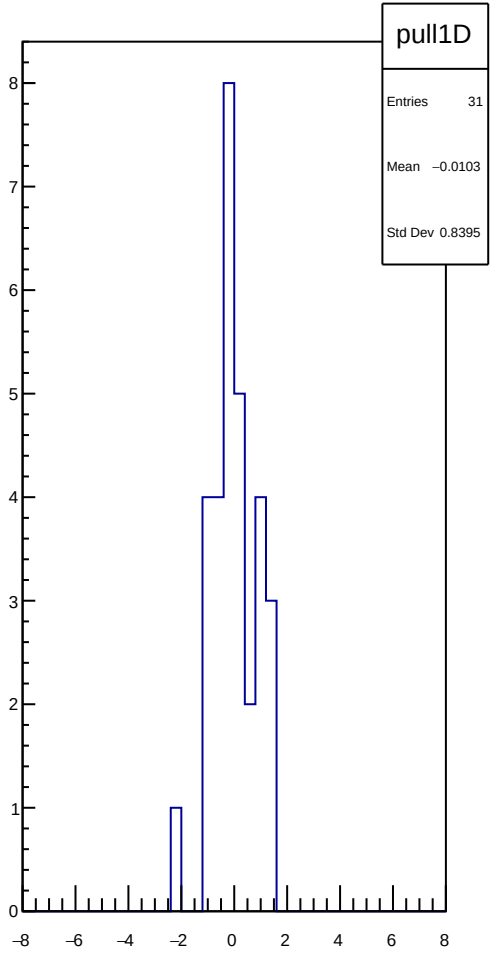

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.325e+05 / 30
p0 5.09e−12 ± 7.481e−15
24
22
20
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

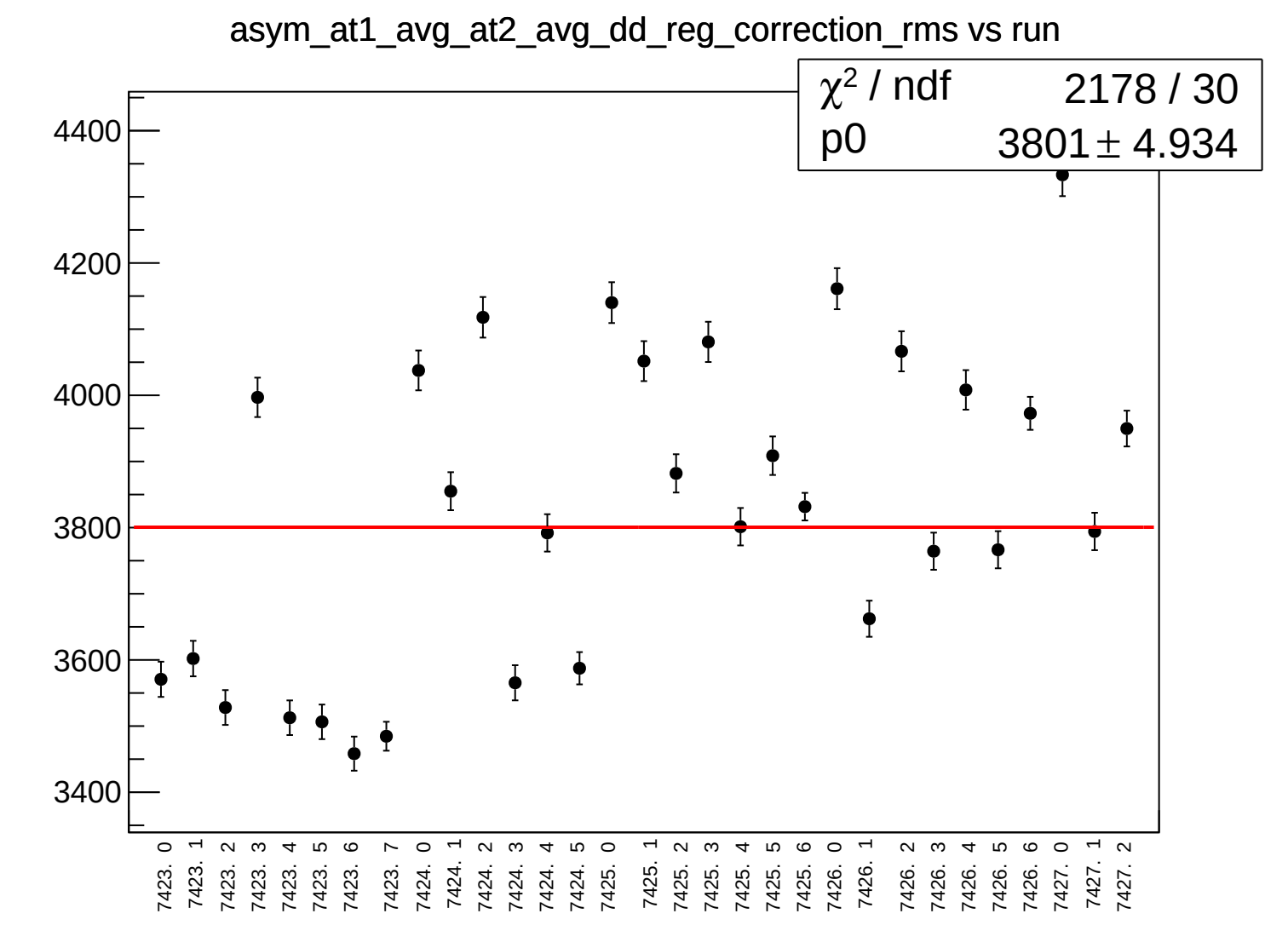

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 37.82 / 30
p0 −1972 ± 2202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −990.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

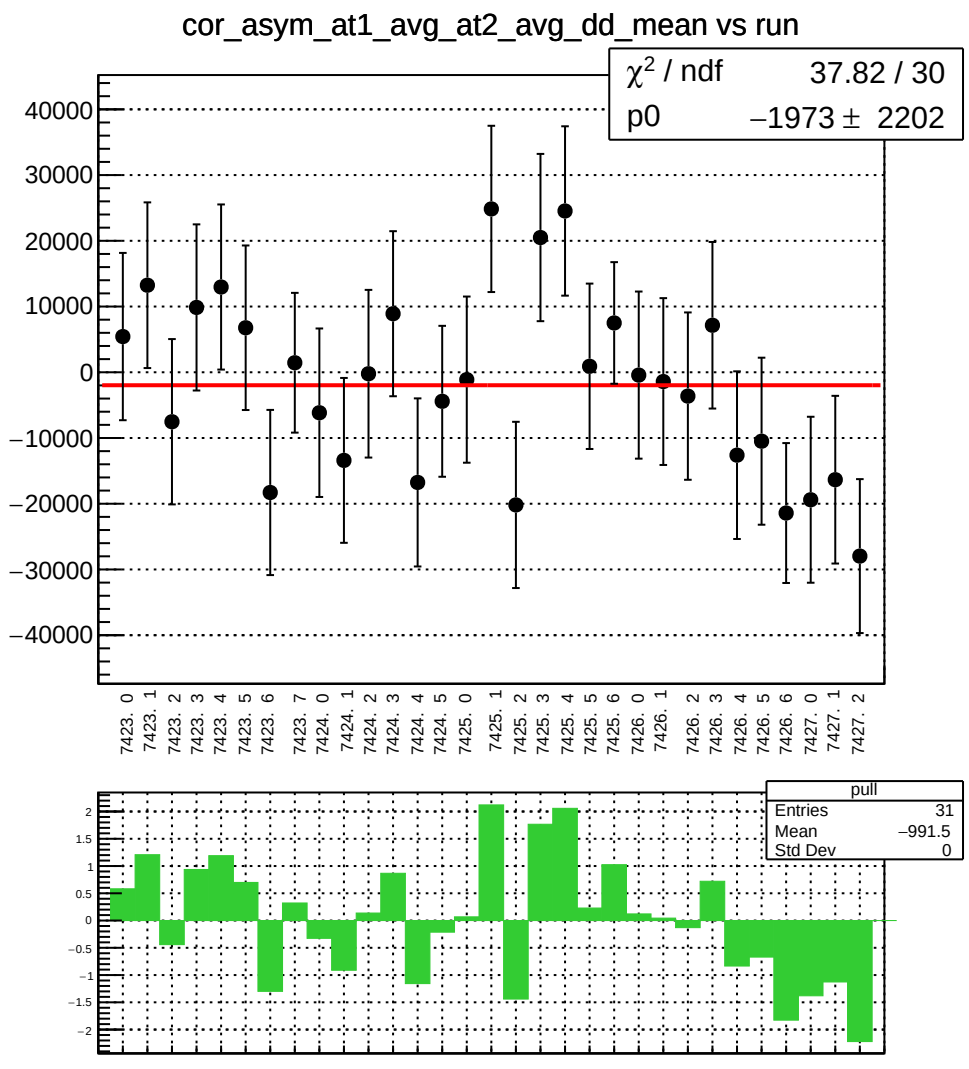

pull1D
Entries 31
Mean 0.0038
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

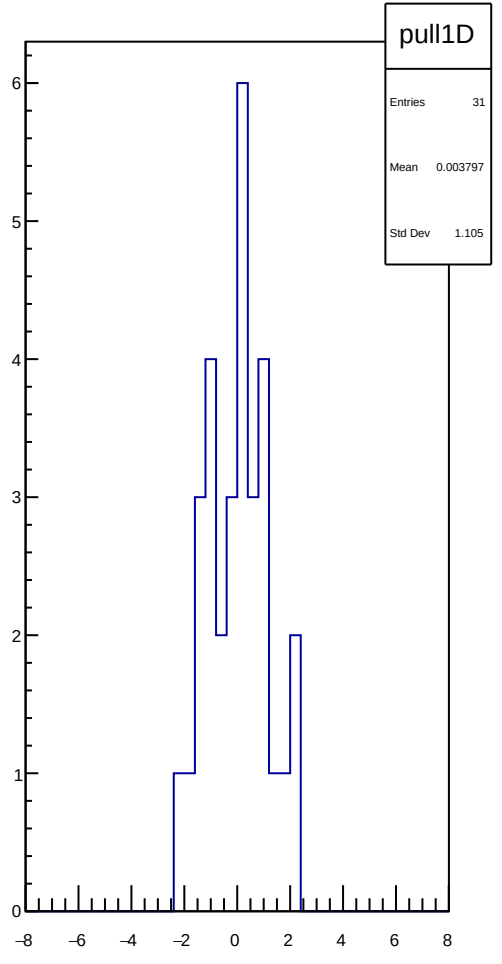

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 26.46 / 30
p0 1201 ± 1.557
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

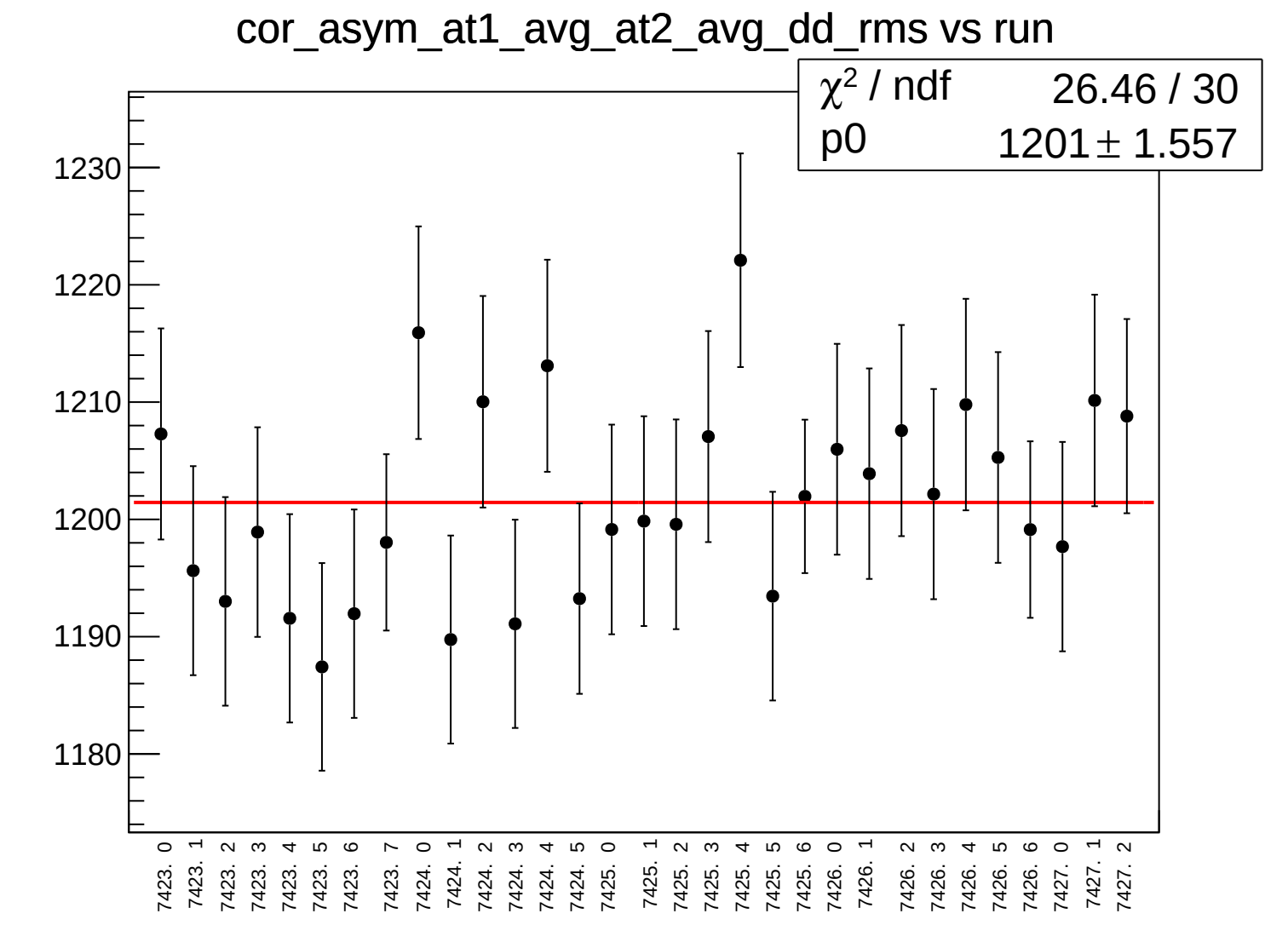

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 21.85 / 30
p0 −3696 ± 6978
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 351
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

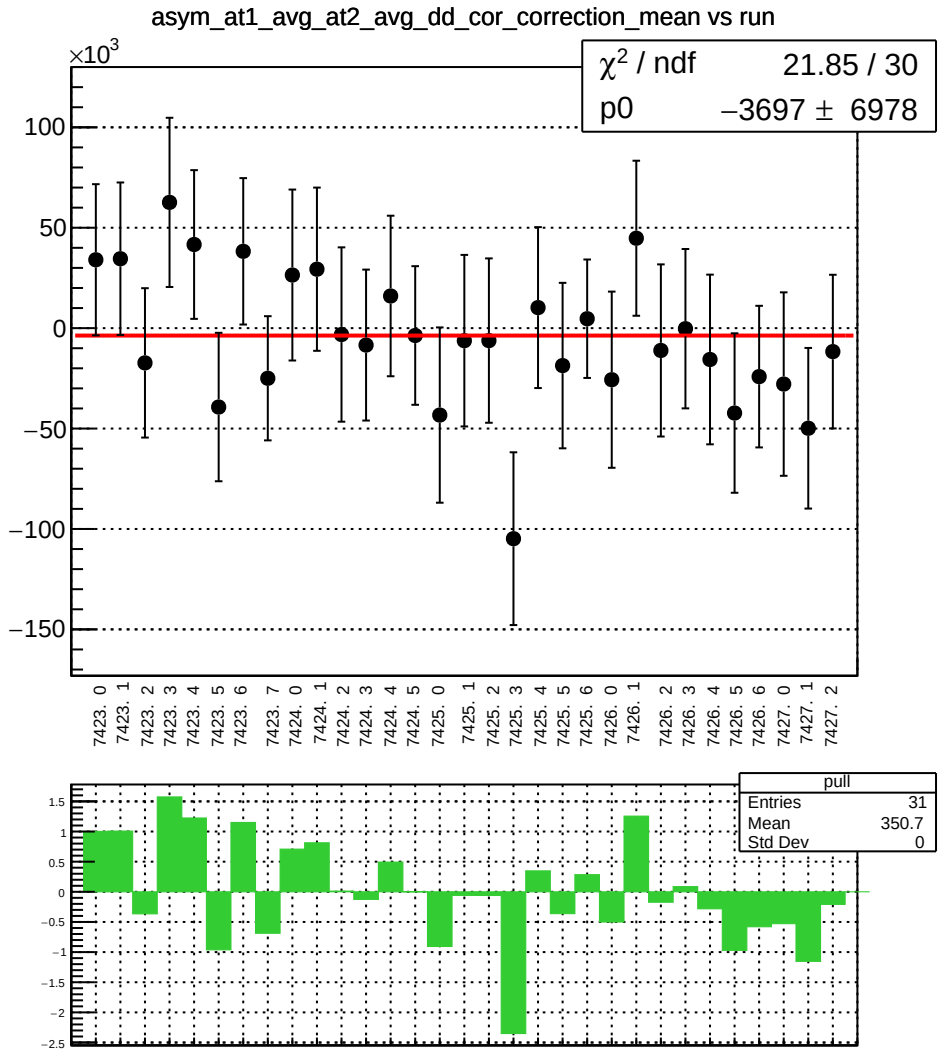

pull1D
Entries 31
Mean −0.0103
Std Dev 0.8395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

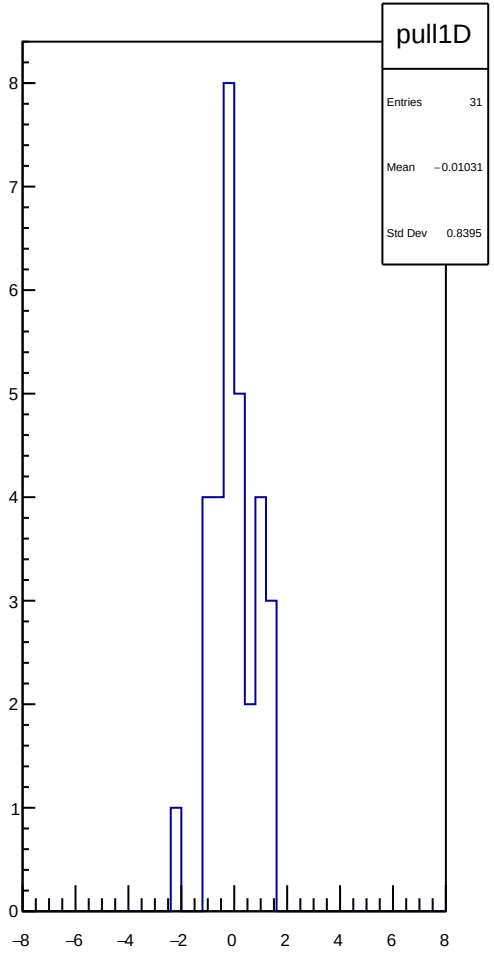

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 2178 / 30
p0 3801 ± 4.934
4400
4200
4000
3800
3600
3400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

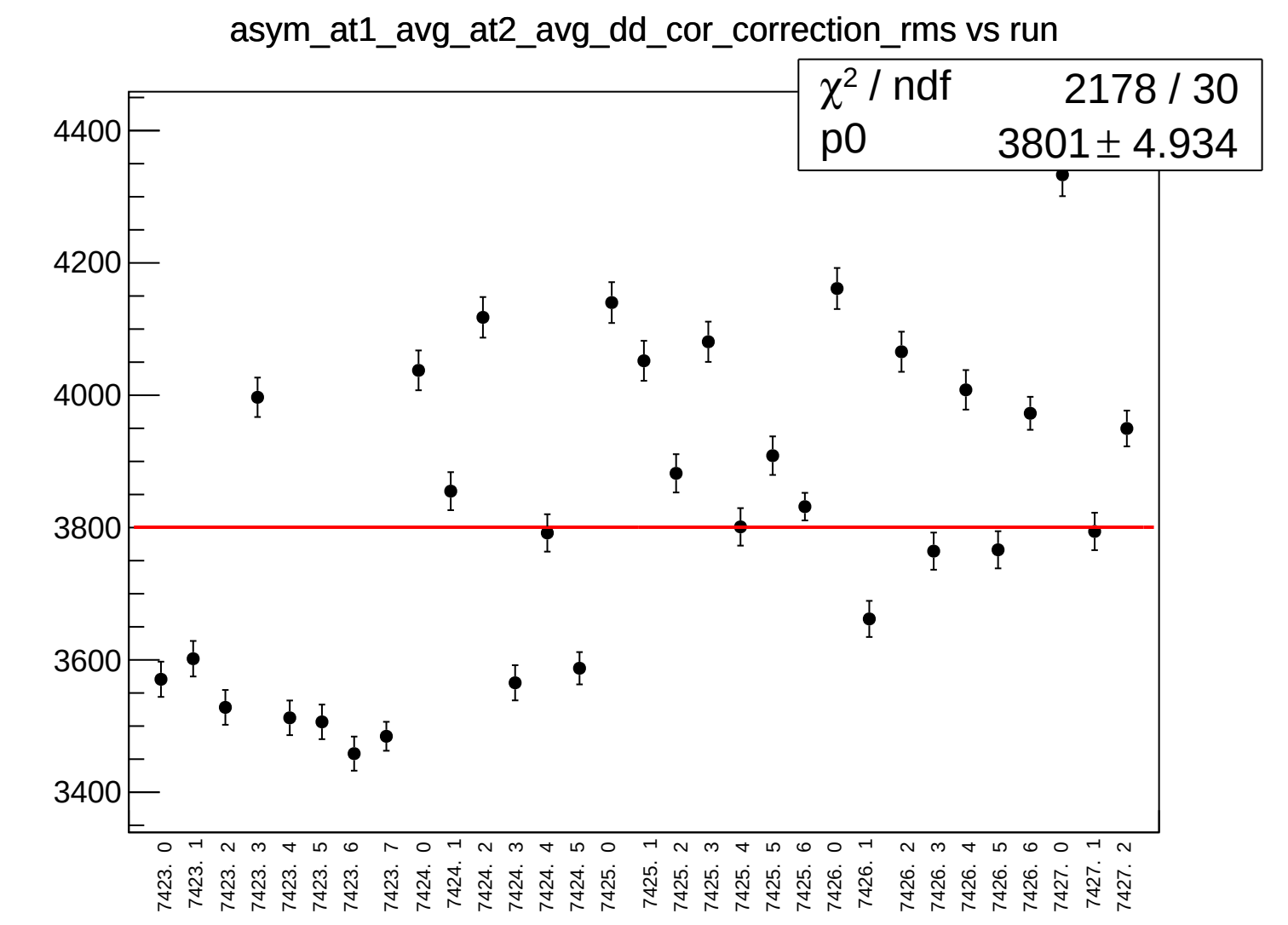

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 37.82 / 30
p0 −1973 ± 2202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −991.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

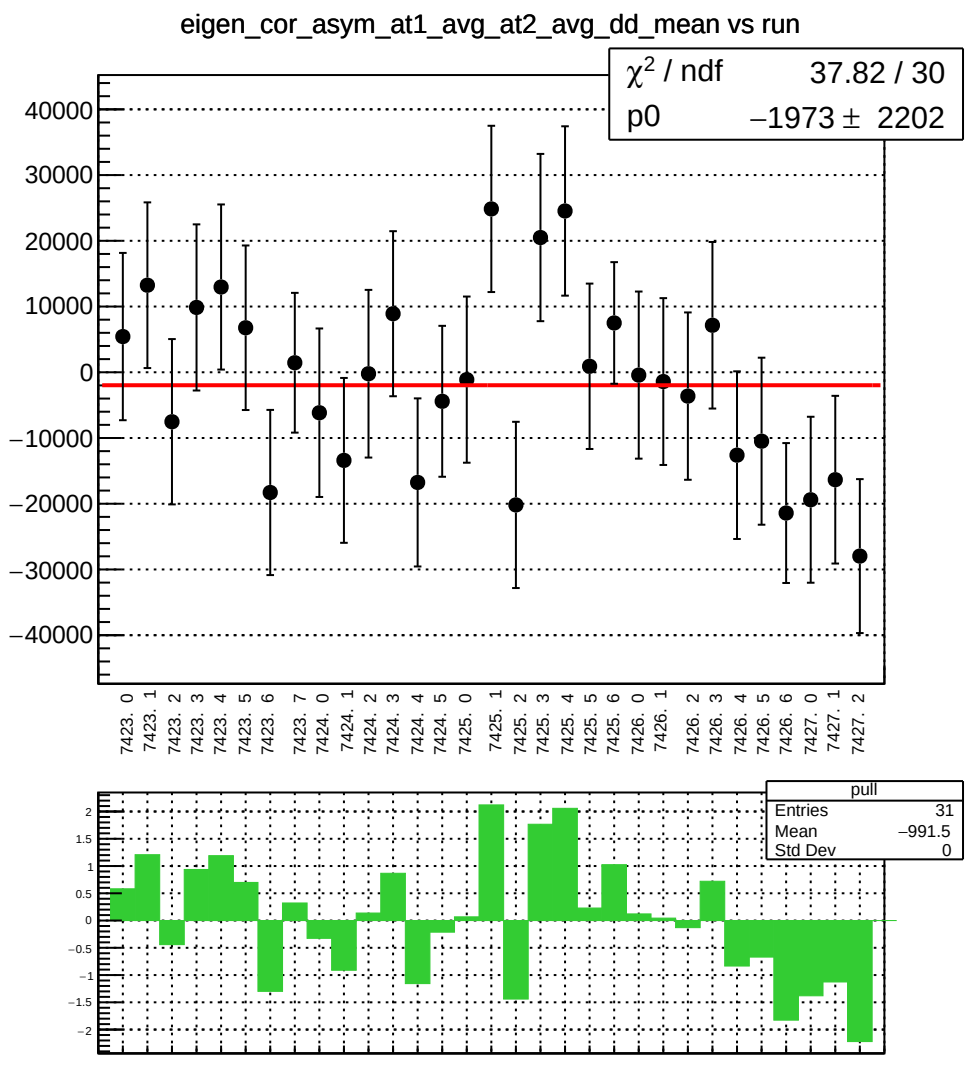

pull1D
Entries 31
Mean 0.003797
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

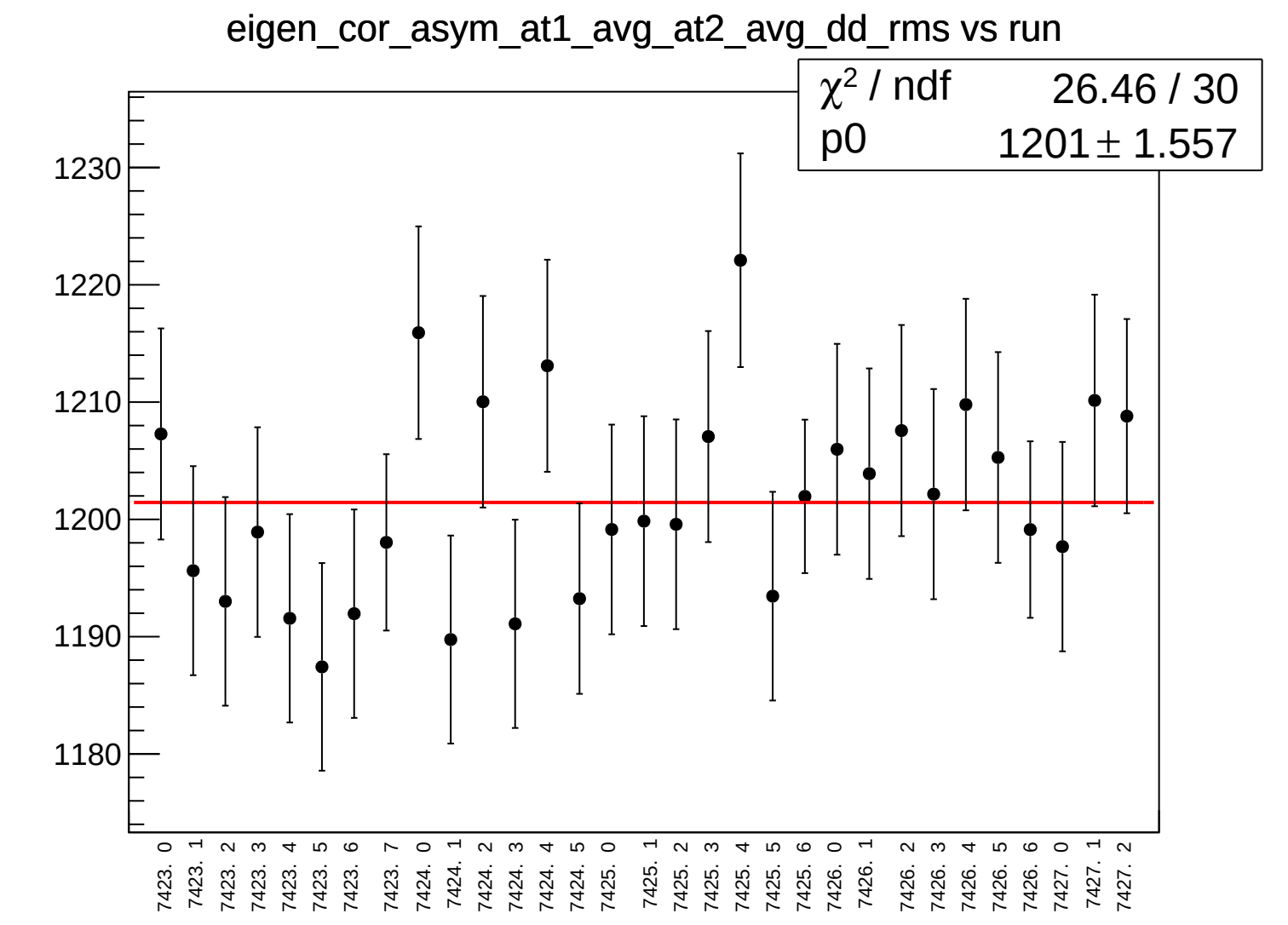

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 26.46 / 30
p0 1201 ± 1.557
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

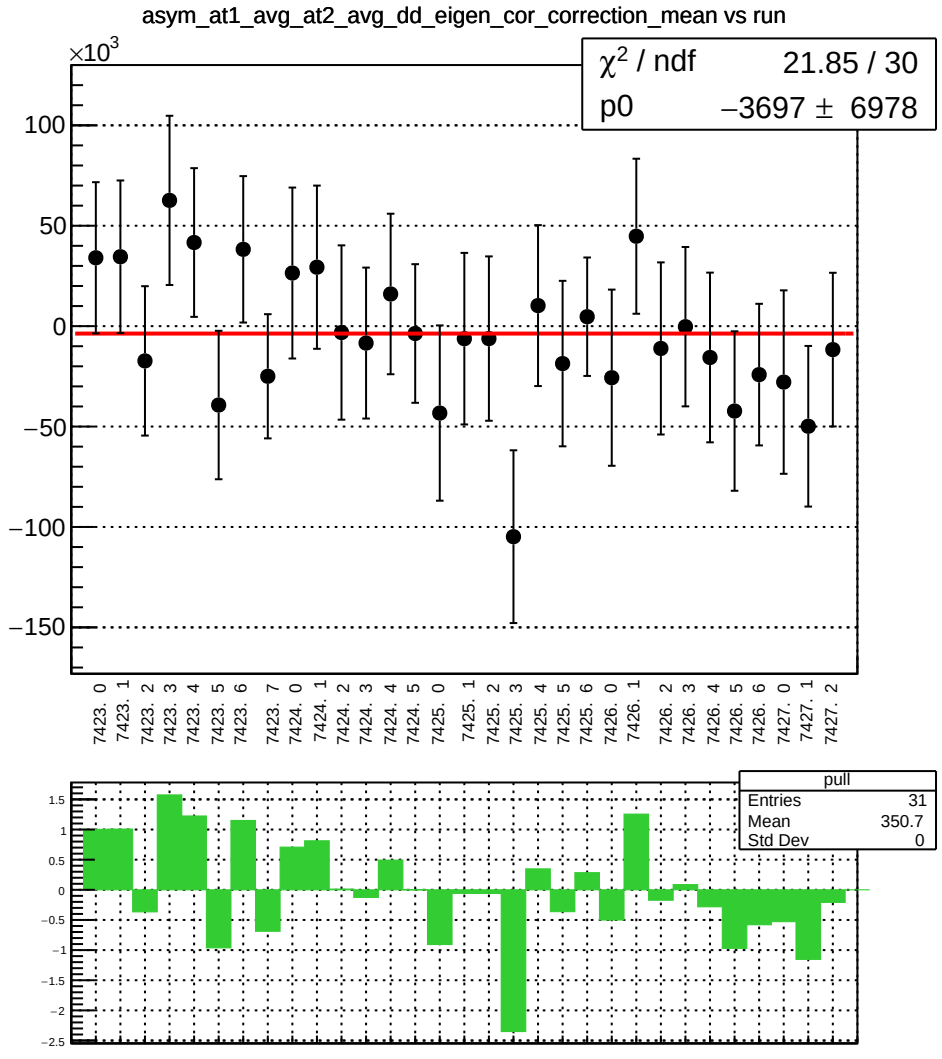

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 21.85 / 30
p0 −3697 ± 6978
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 350.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

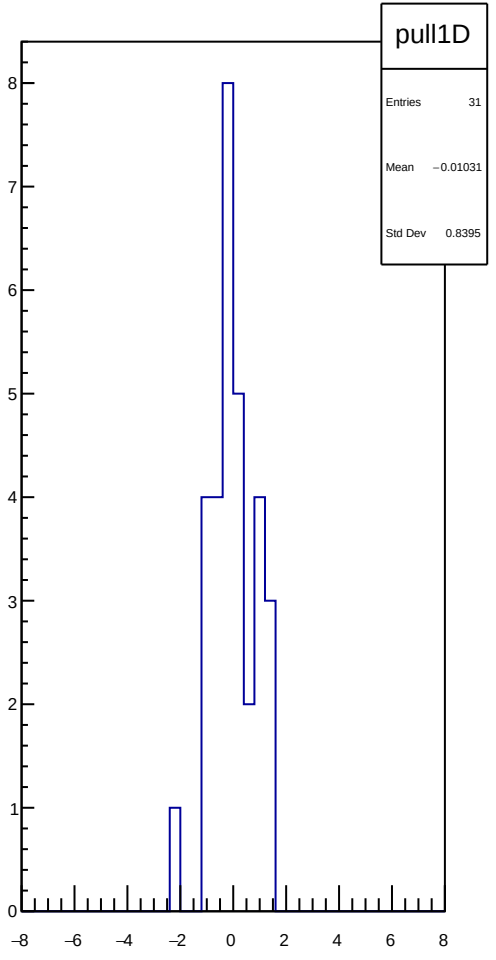

pull1D
Entries 31
Mean −0.01031
Std Dev 0.8395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

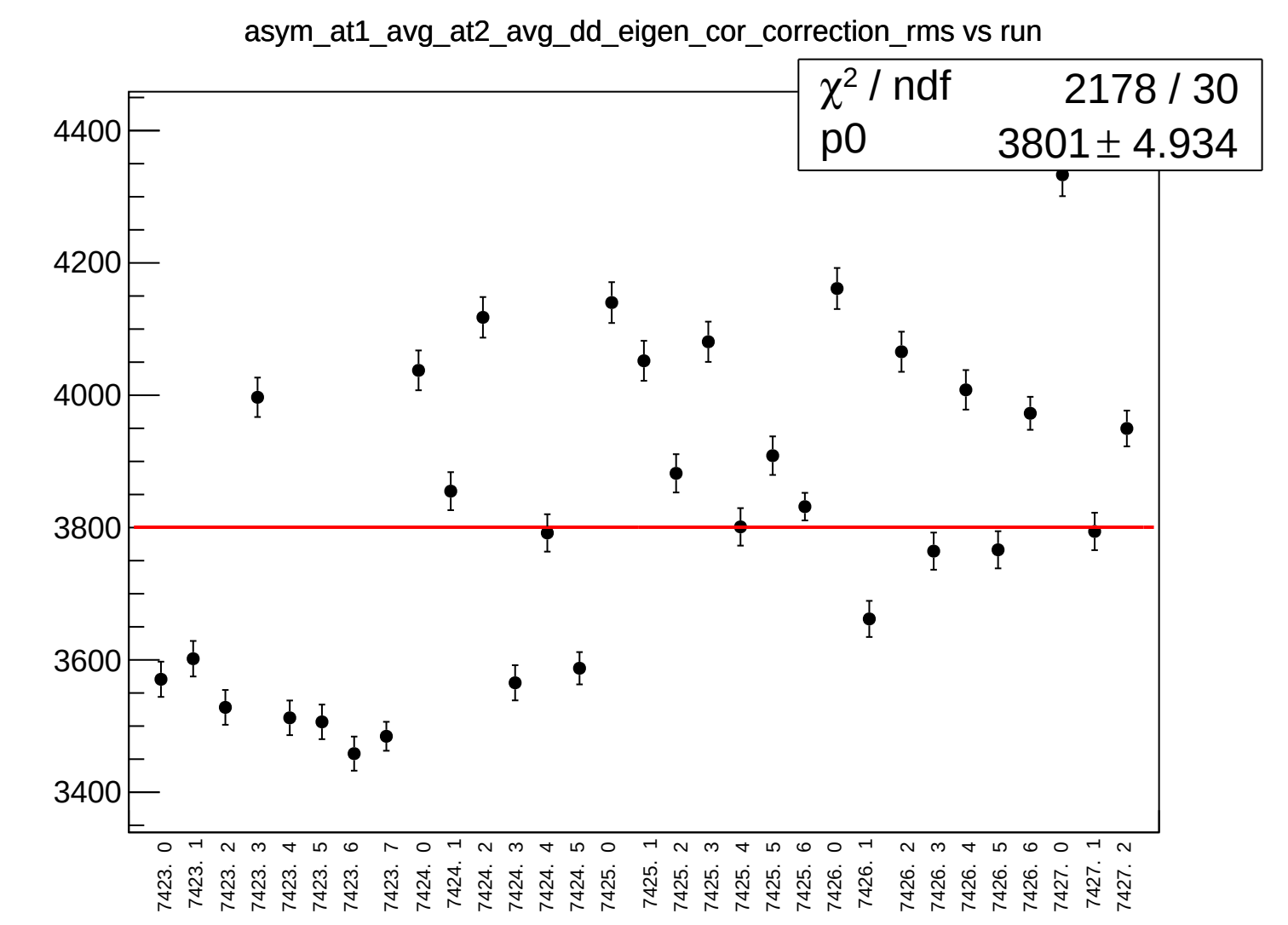

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 2178 / 30
p0 3801 ± 4.934
4400
4200
4000
3800
3600
3400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

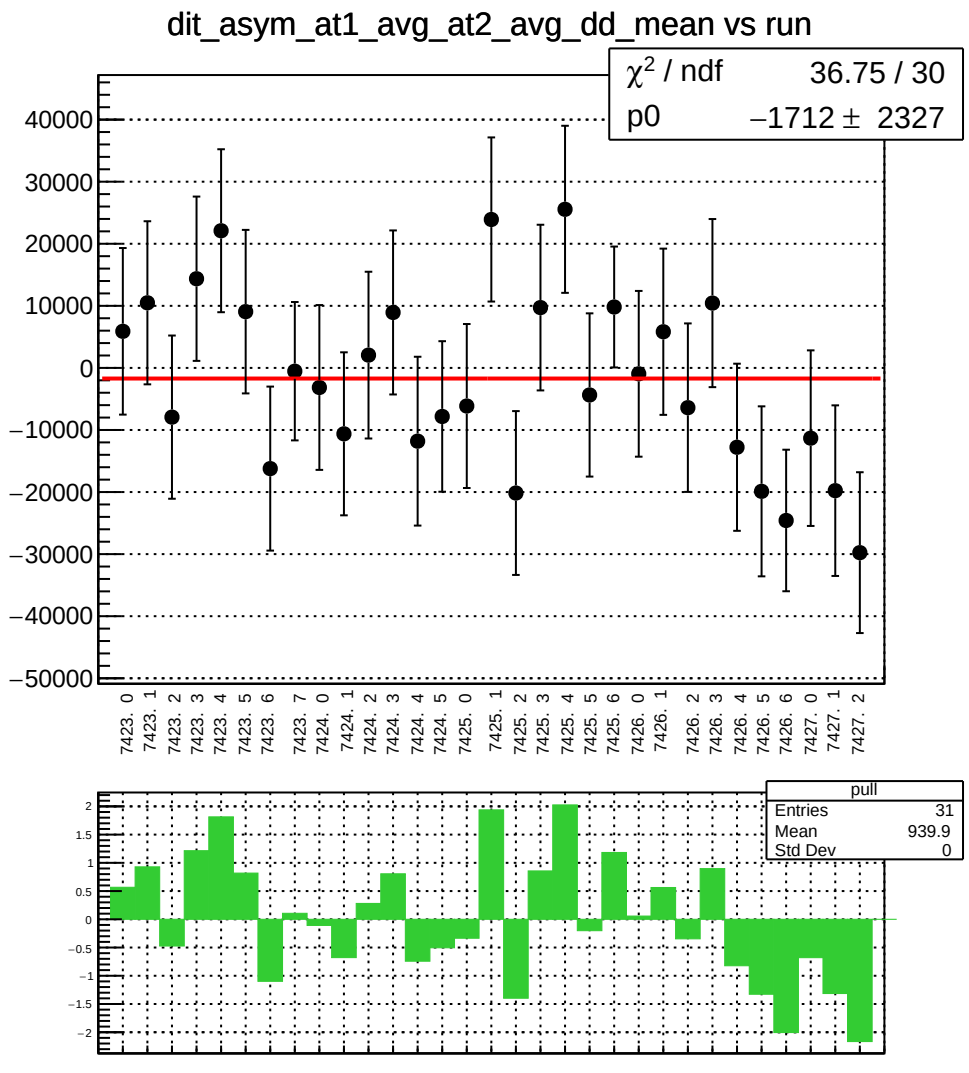

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 37.82 / 30
p0 −1973 ± 2202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −991.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.003797
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

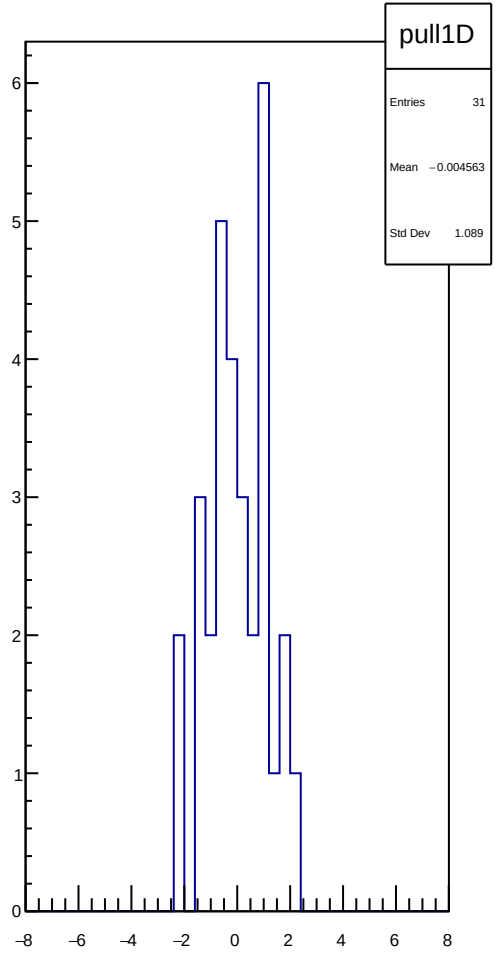

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 26.46 / 30
p0 1201 ± 1.557
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

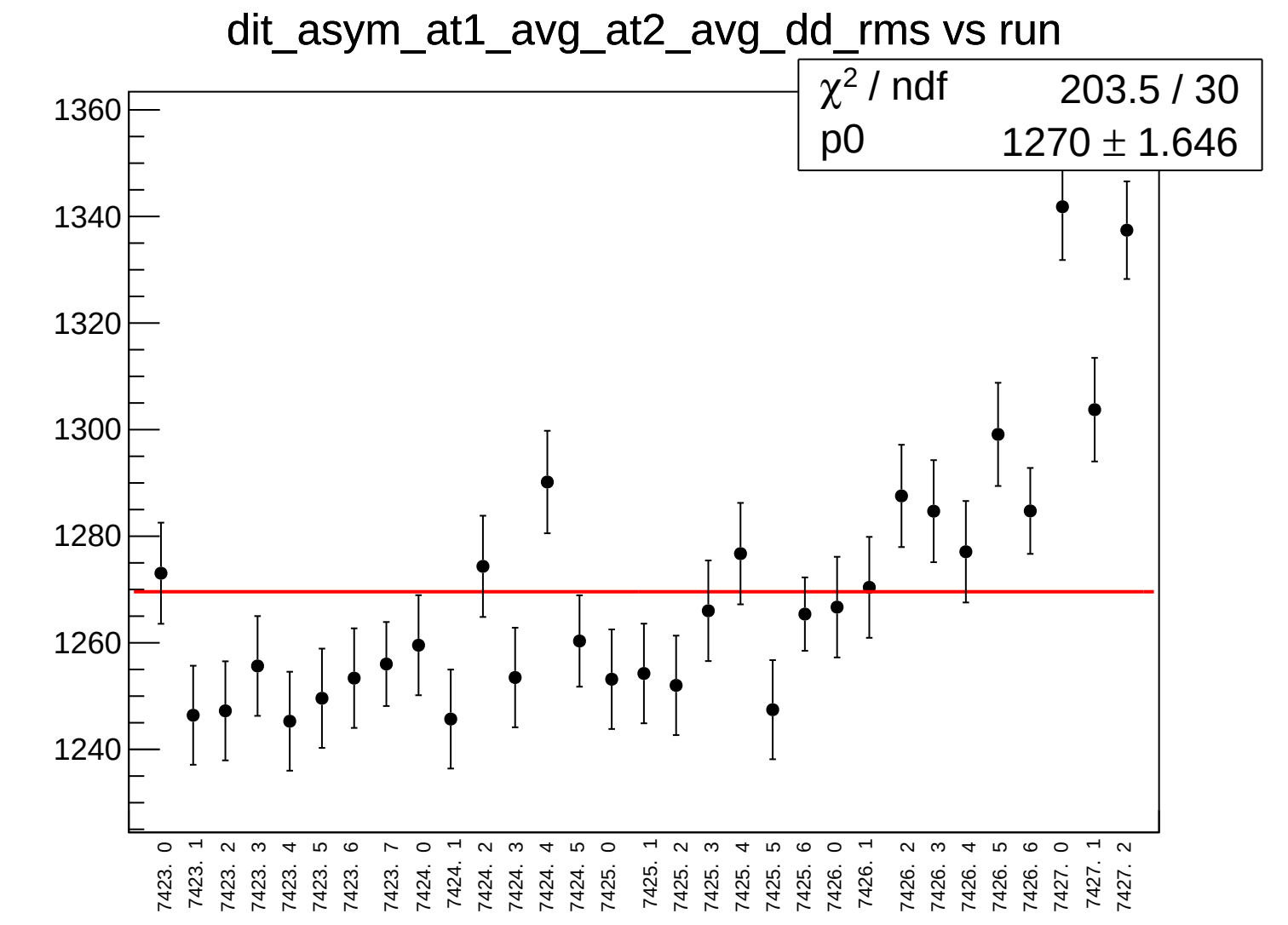

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.85 / 30
p0 −3697 ± 6978
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 350.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

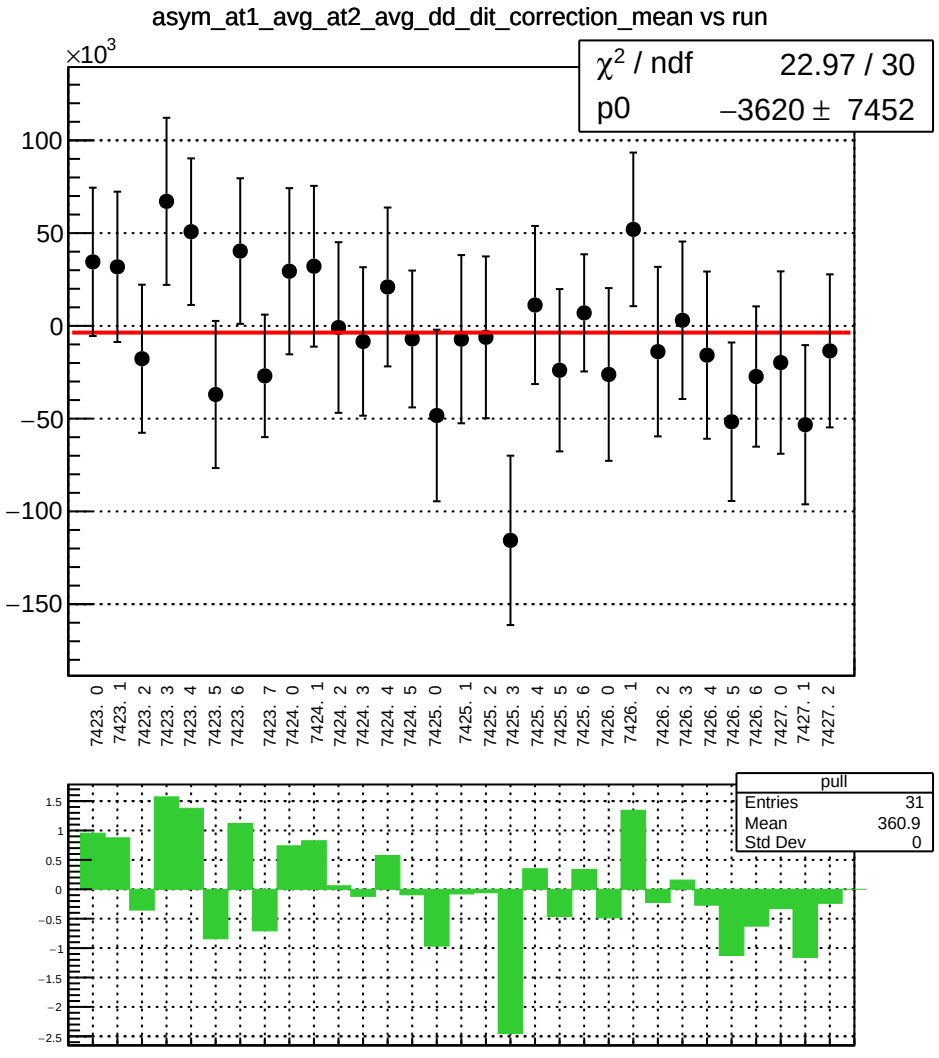

pull1D
Entries 31
Mean −0.01031
Std Dev 0.8395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

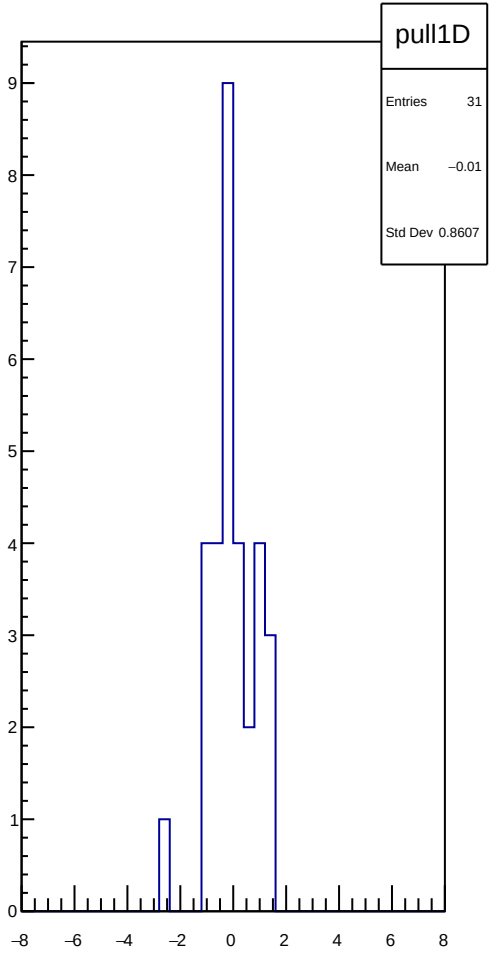

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2178 / 30
p0 3801 ± 4.934
4400
4200
4000
3800
3600
3400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

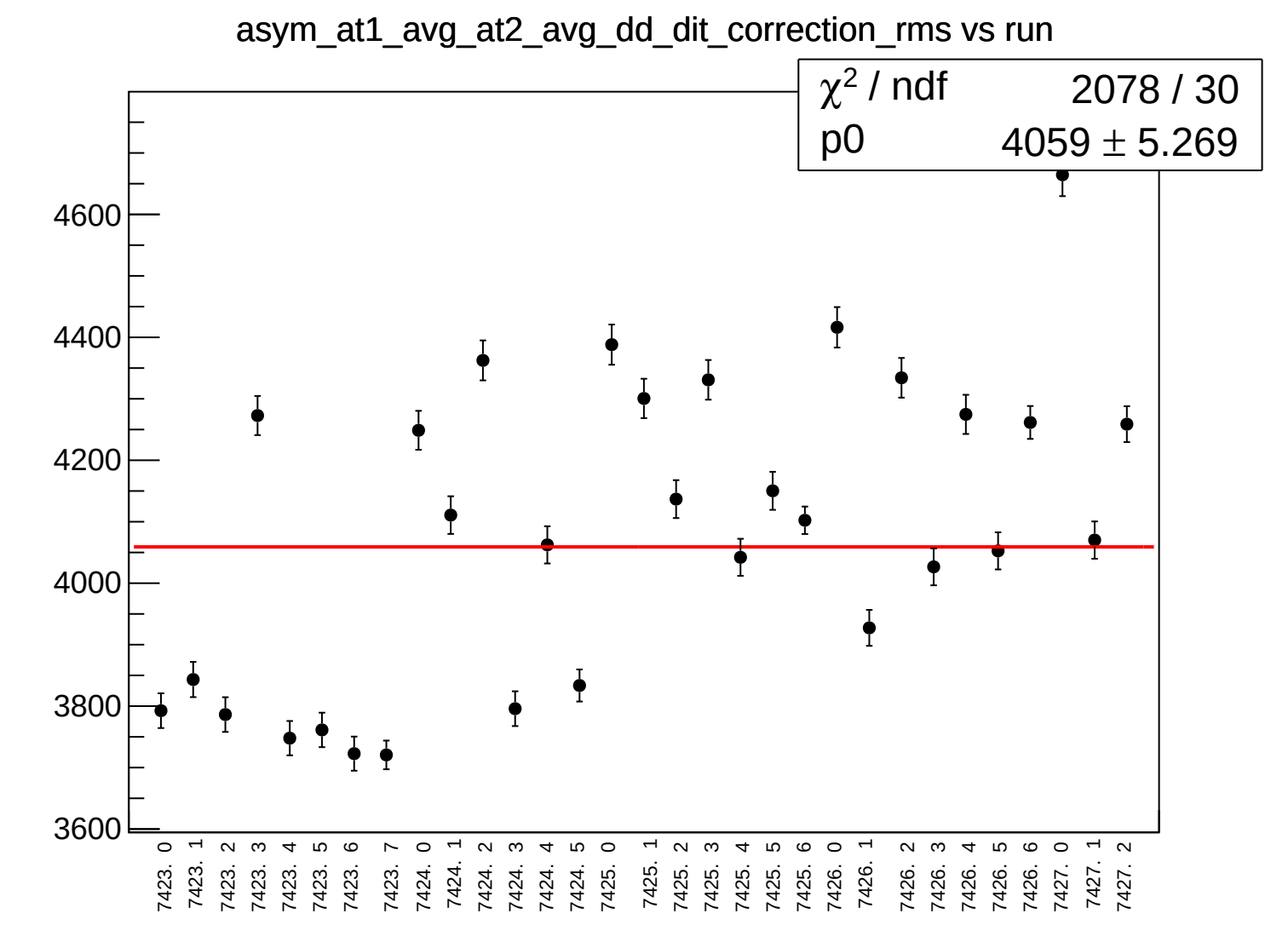

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 36.75 / 30
p0 −1712 ± 2327
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 939.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

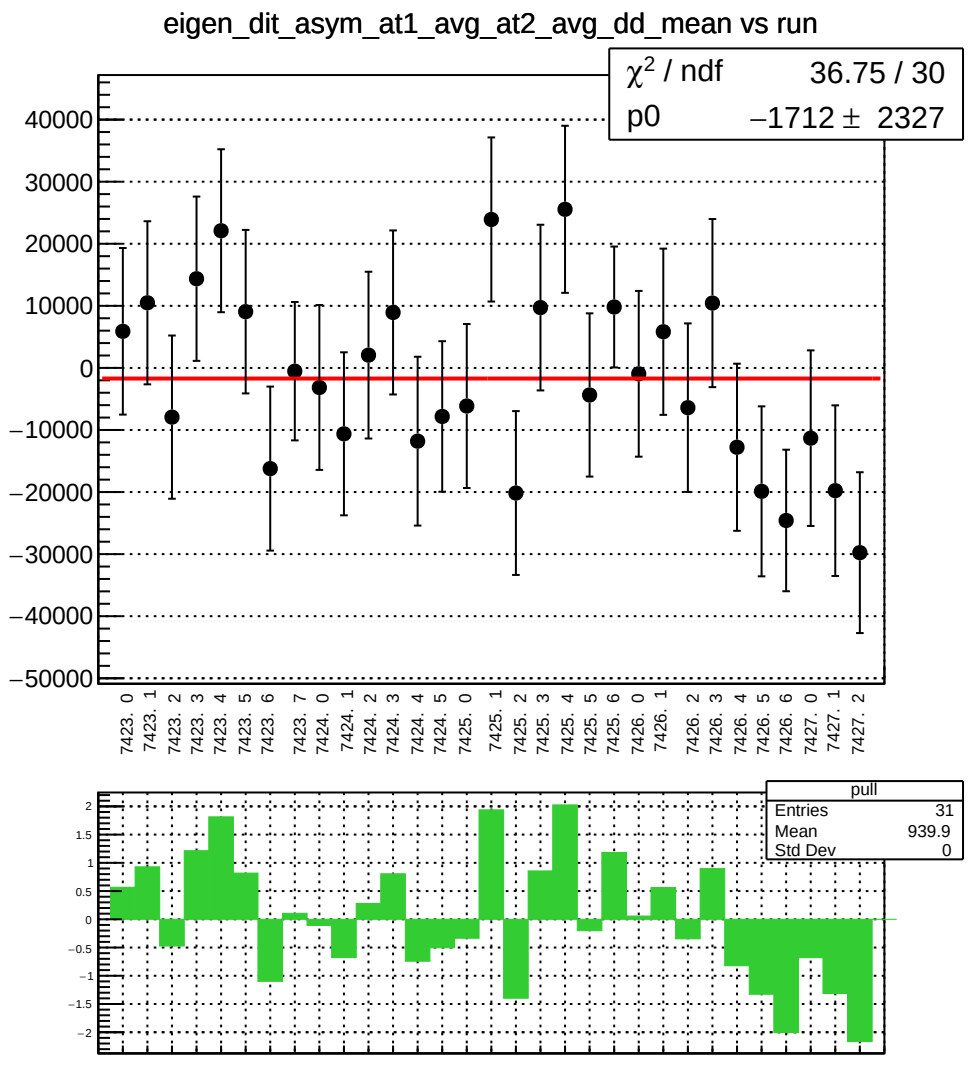

pull1D
Entries 31
Mean −0.004563
Std Dev 1.089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

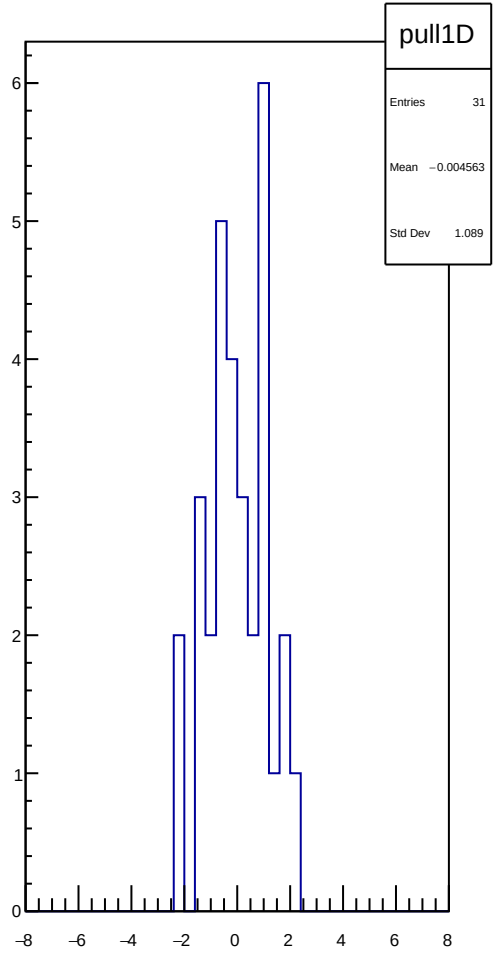

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 203.5 / 30
p0 1270 ± 1.646
1360
1340
1320
1300
1280
1260
1240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

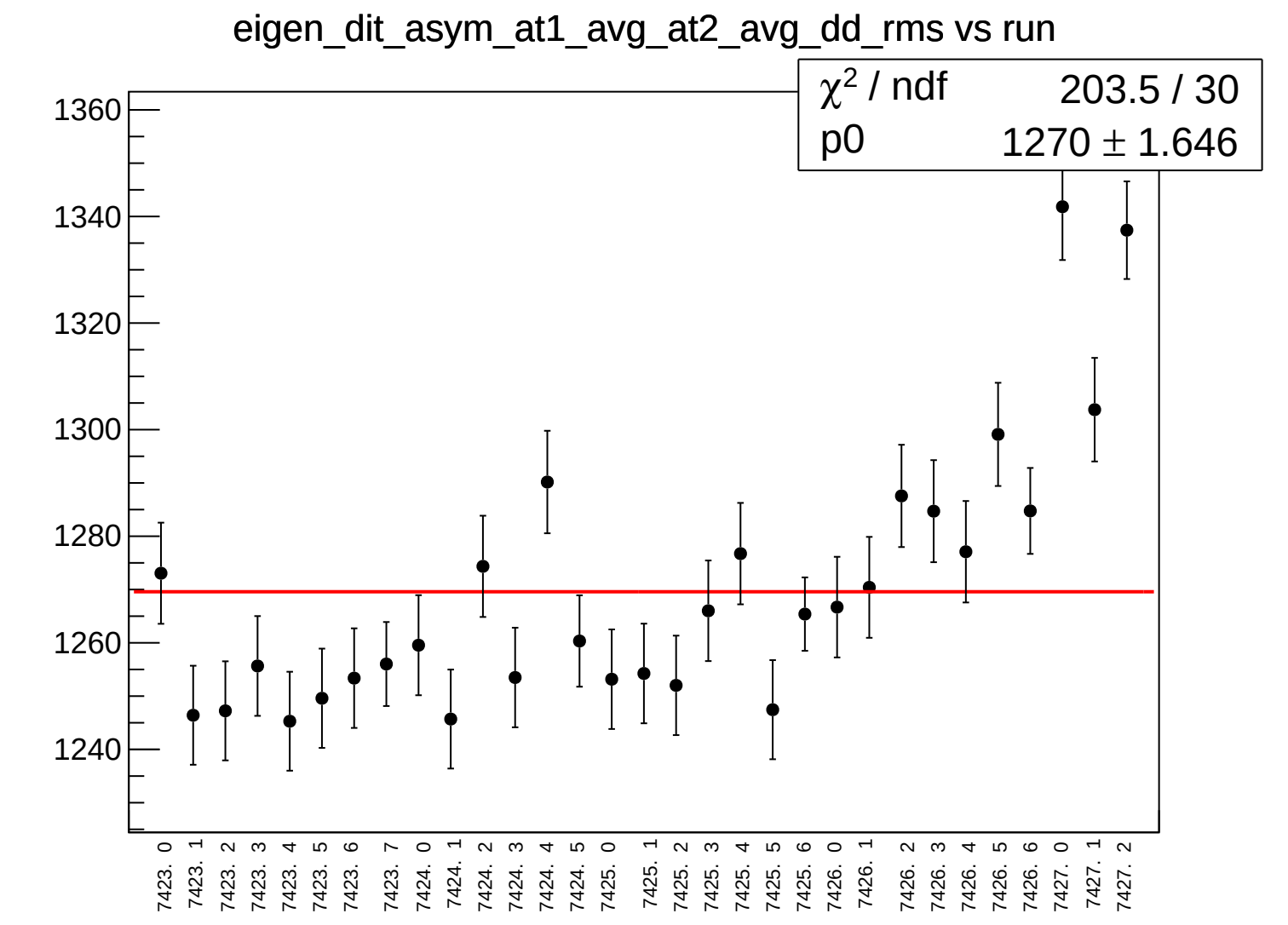

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 22.97 / 30
p0 −3620 ± 7452
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 360.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

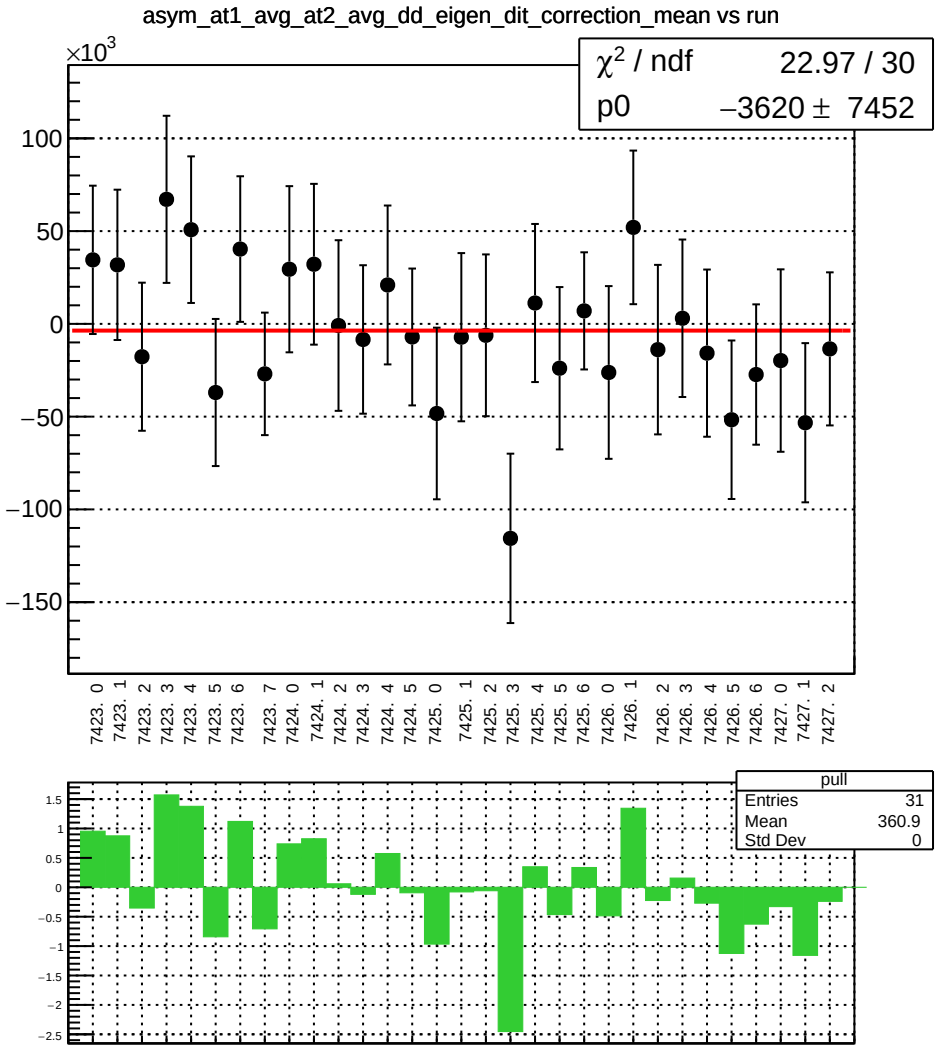

pull1D
Entries 31
Mean −0.01
Std Dev 0.8607
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

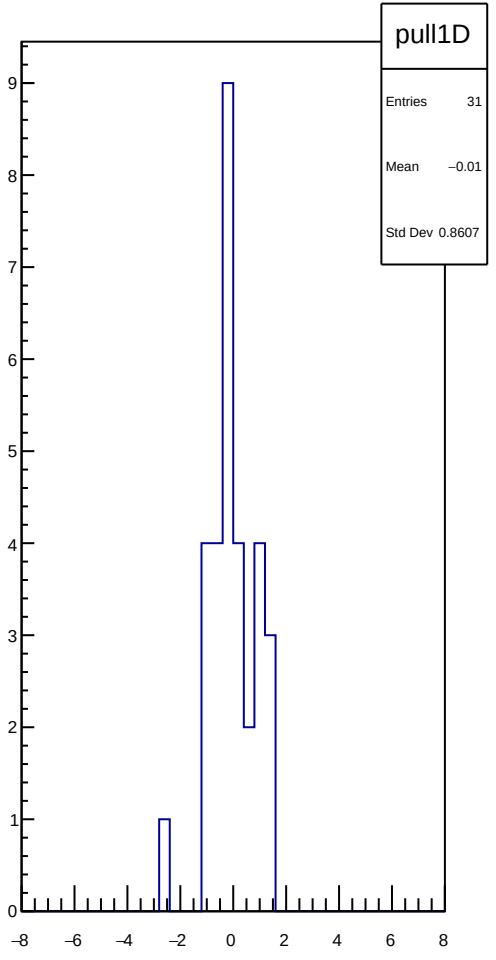

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 2078 / 30
p0 4059 ± 5.269
4600
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

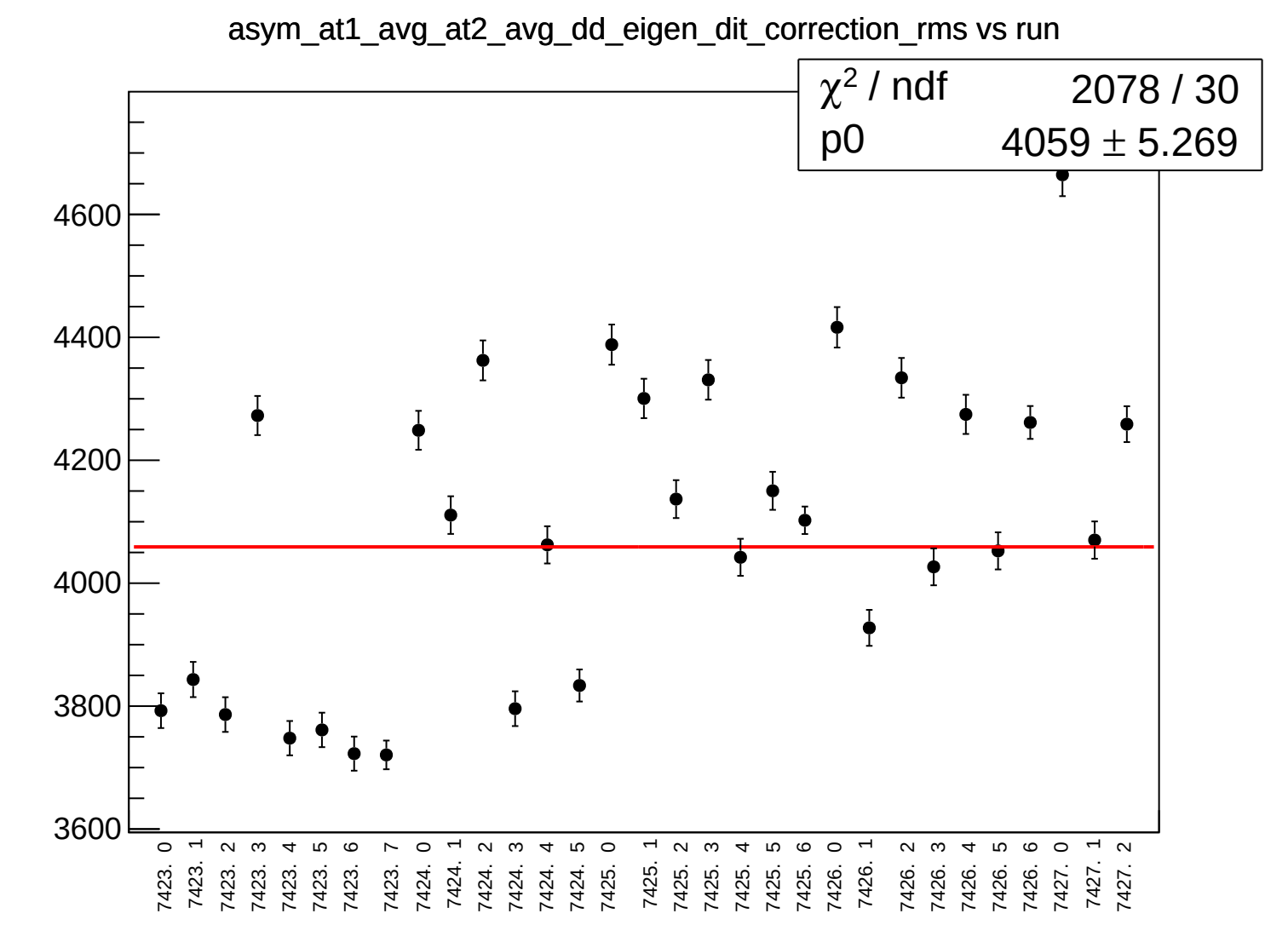

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 36.75 / 30
p0 −1712 ± 2327
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 939.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

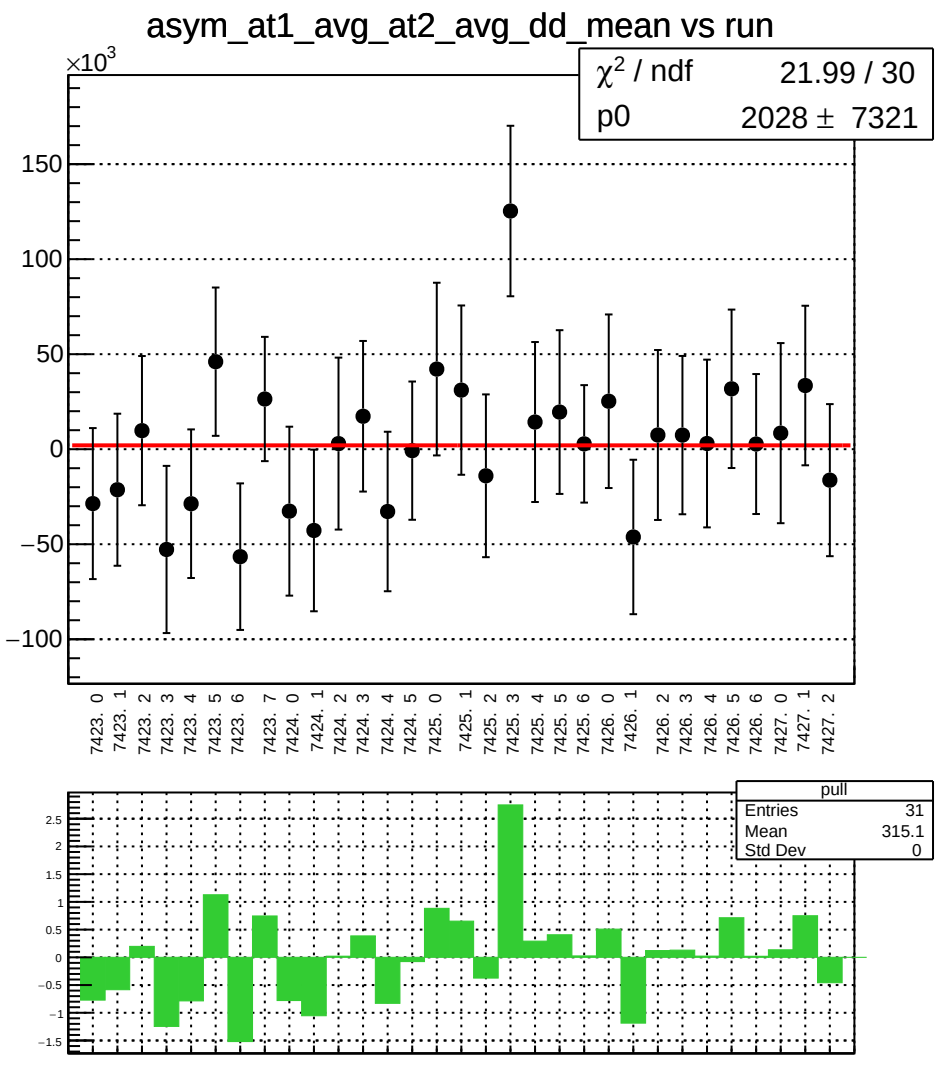

pull1D
Entries 31
Mean −0.004563
Std Dev 1.089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

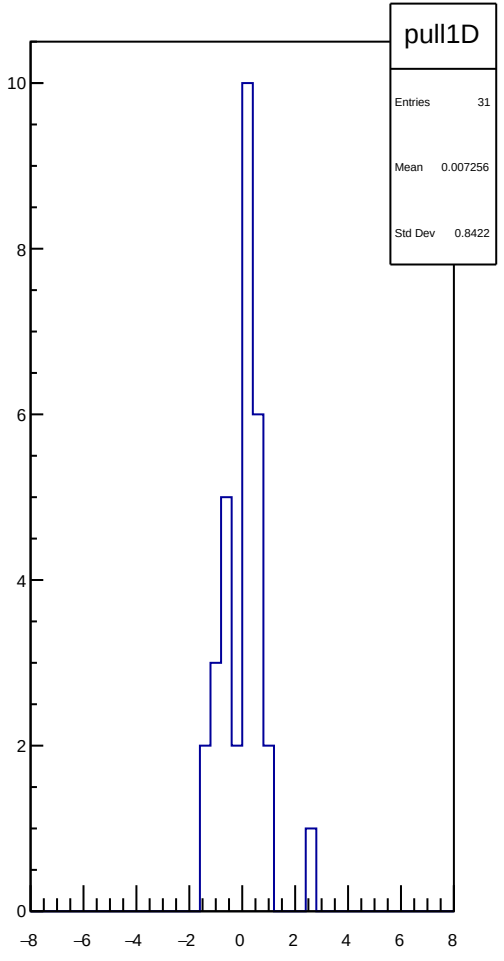

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 203.5 / 30
p0 1270 ± 1.646
1360
1340
1320
1300
1280
1260
1240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

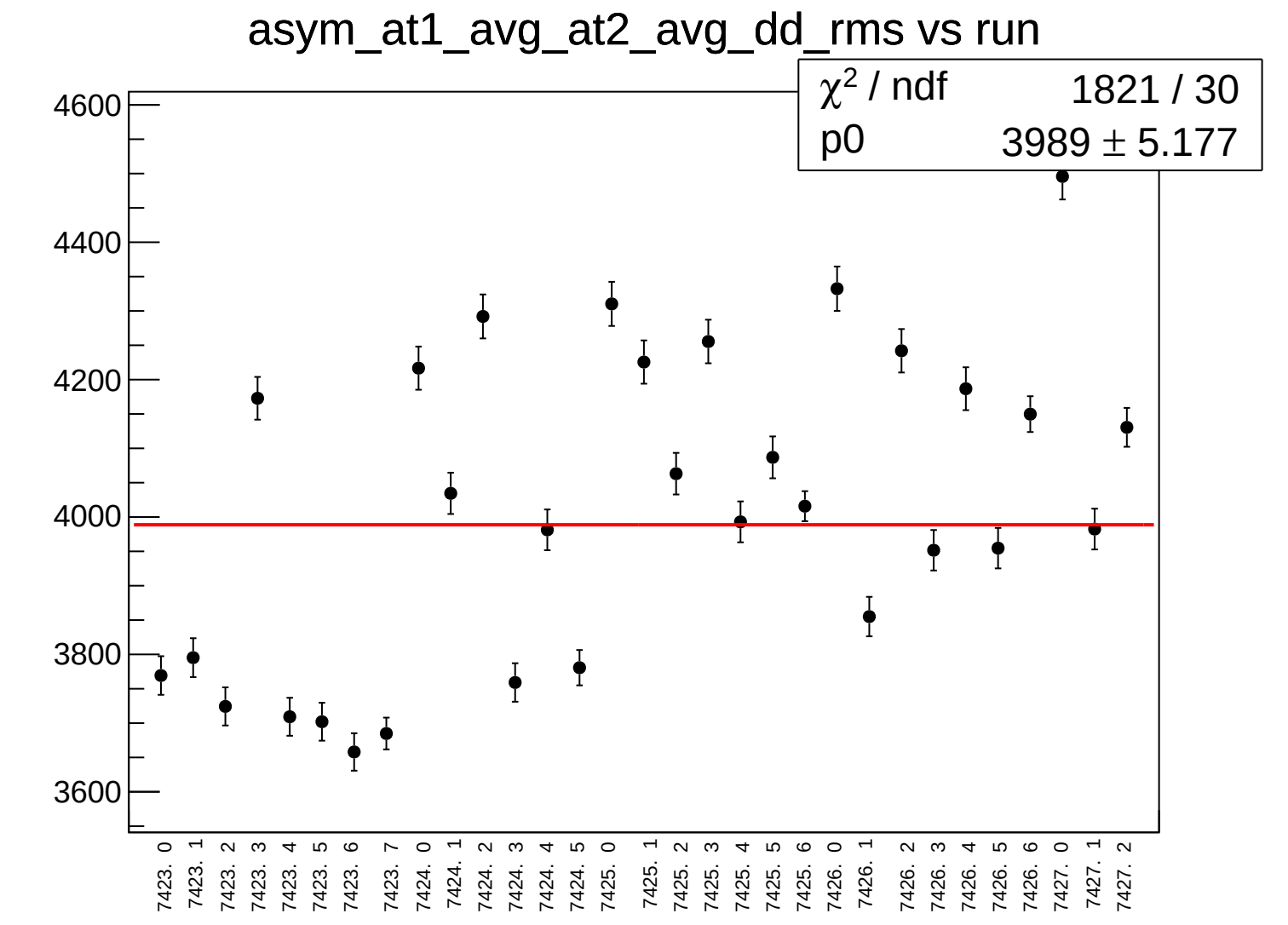

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.97 / 30
p0 −3620 ± 7452
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 360.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

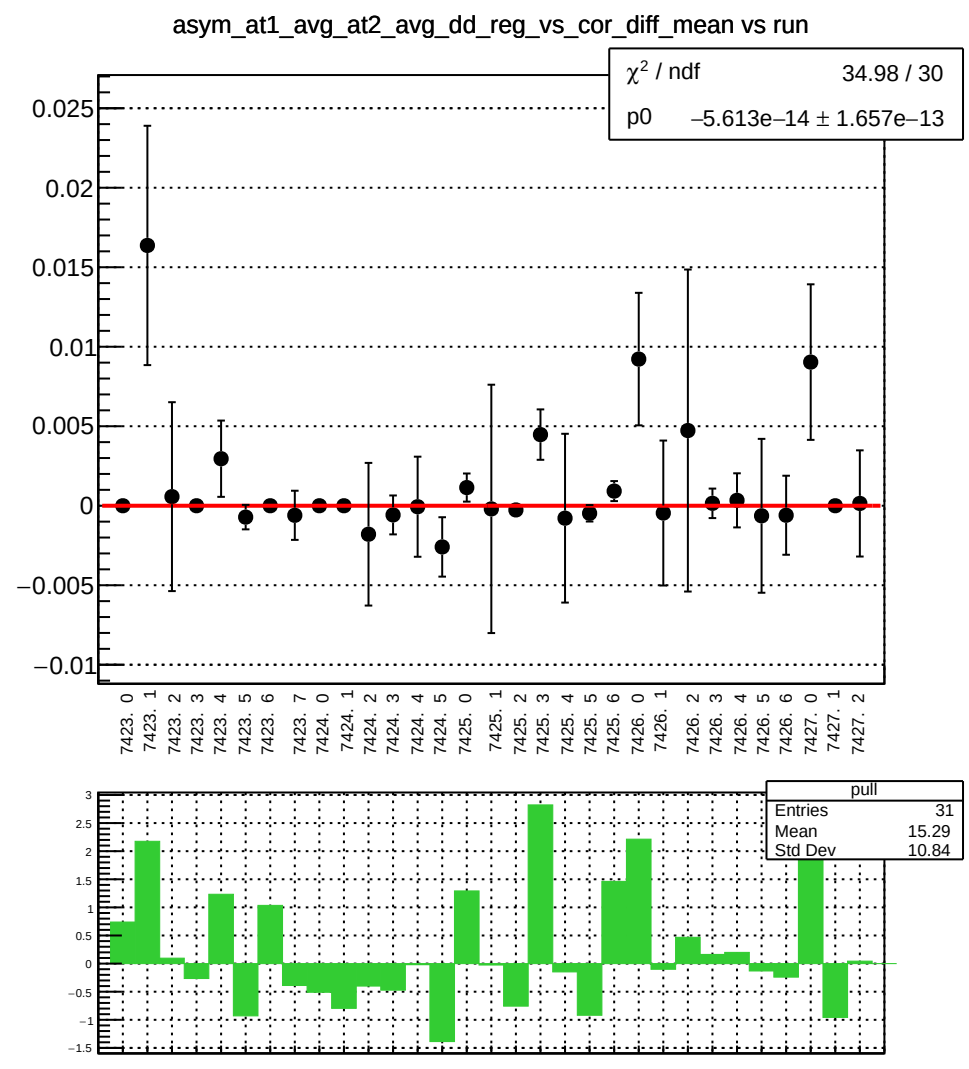

pull1D
Entries 31
Mean −0.01
Std Dev 0.8607
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

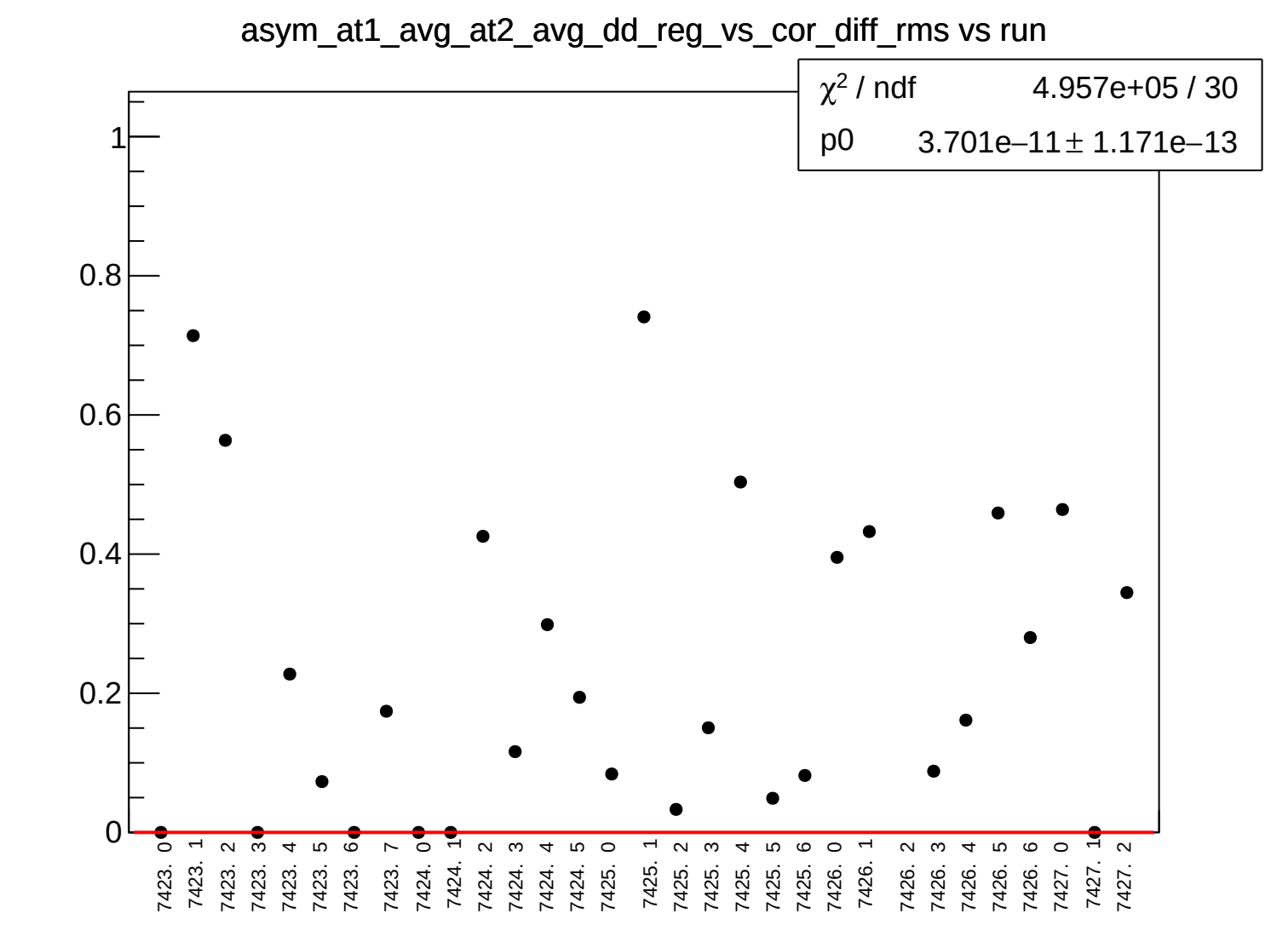

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2078 / 30
p0 4059 ± 5.269
4600
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

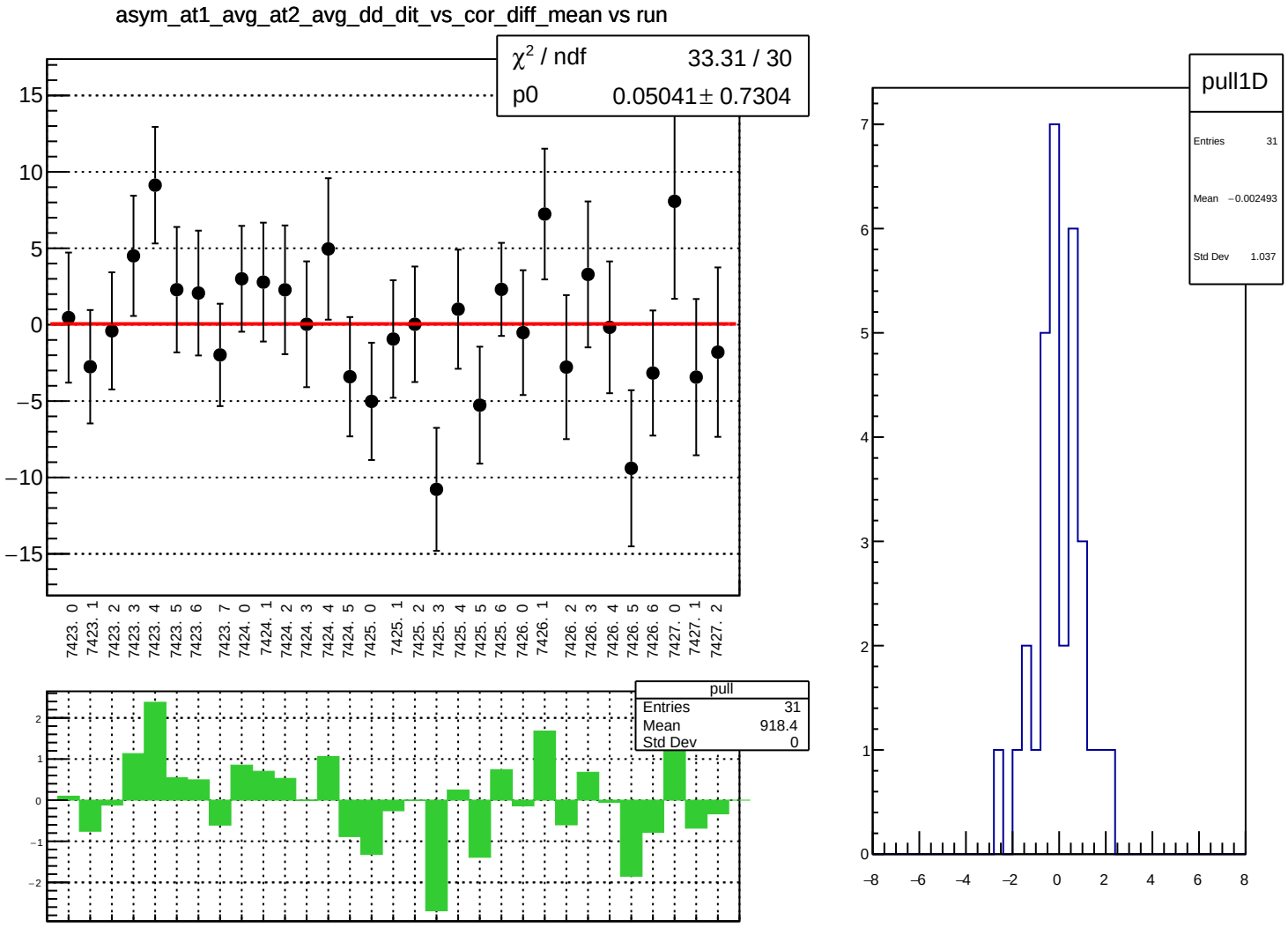

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 21.99 / 30
p0 2028 ± 7321
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 315.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

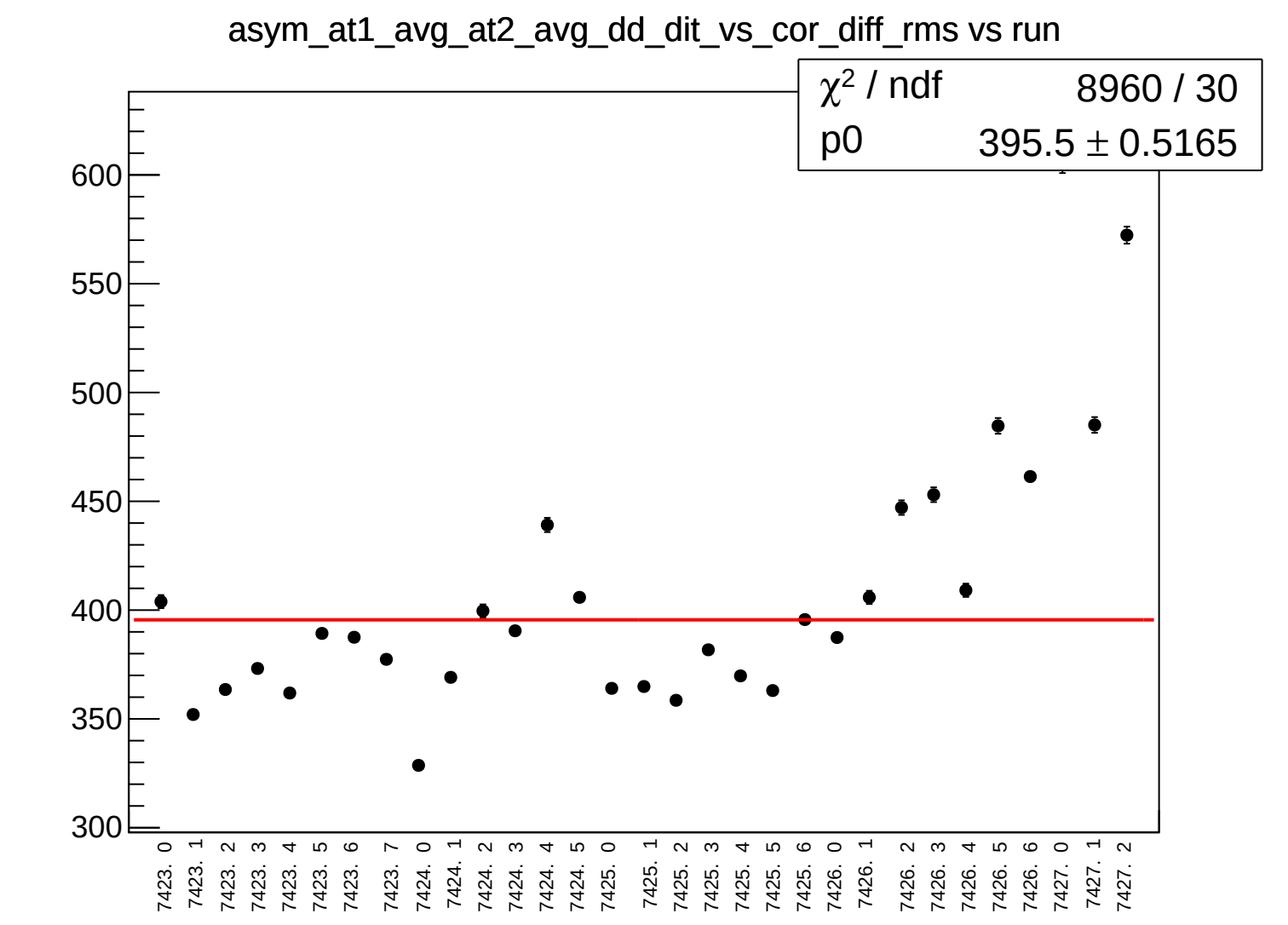

pull1D
Entries 31
Mean 0.007256
Std Dev 0.8422
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

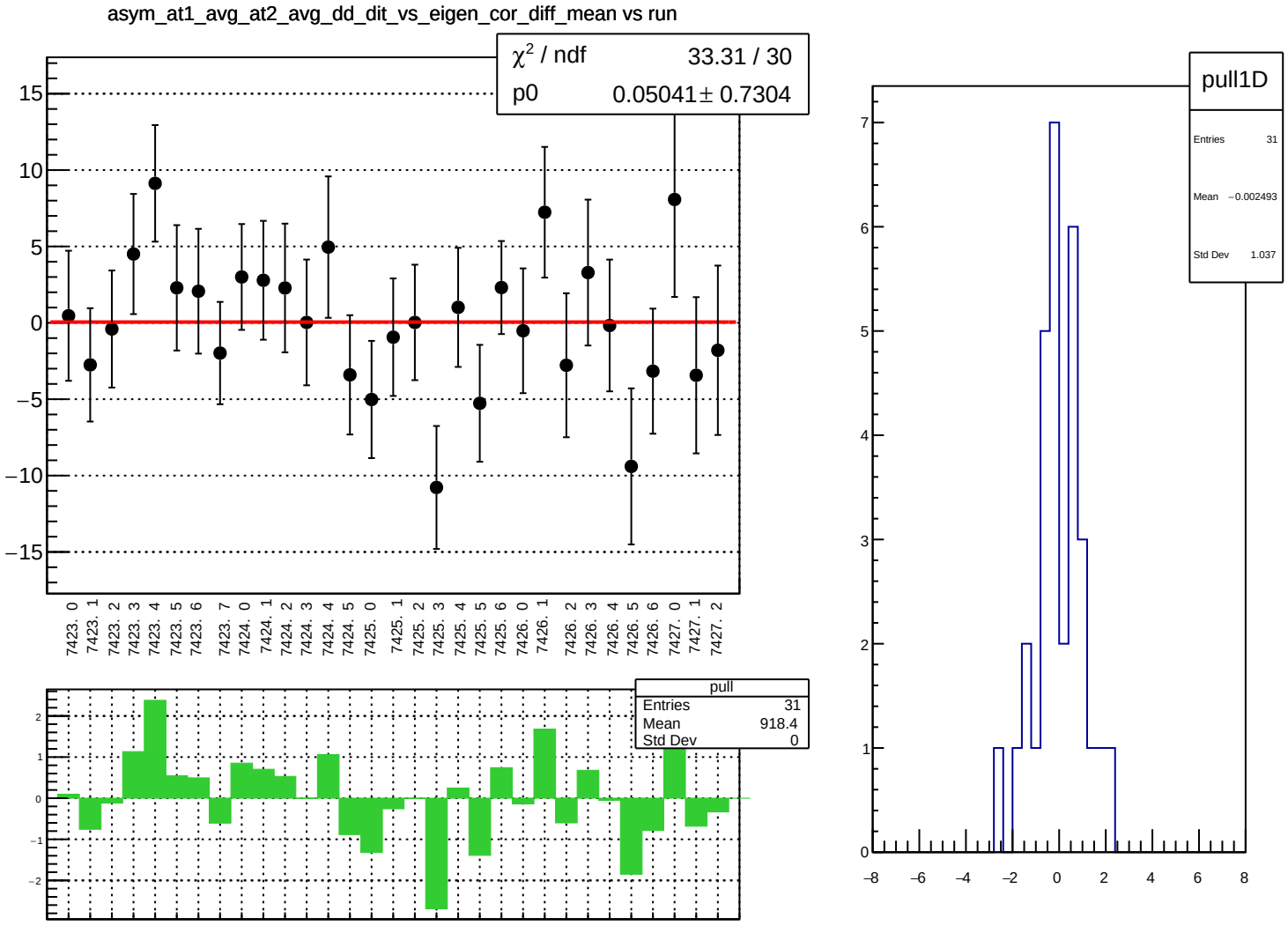

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1821 / 30
p0 3989 ± 5.177
4600
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

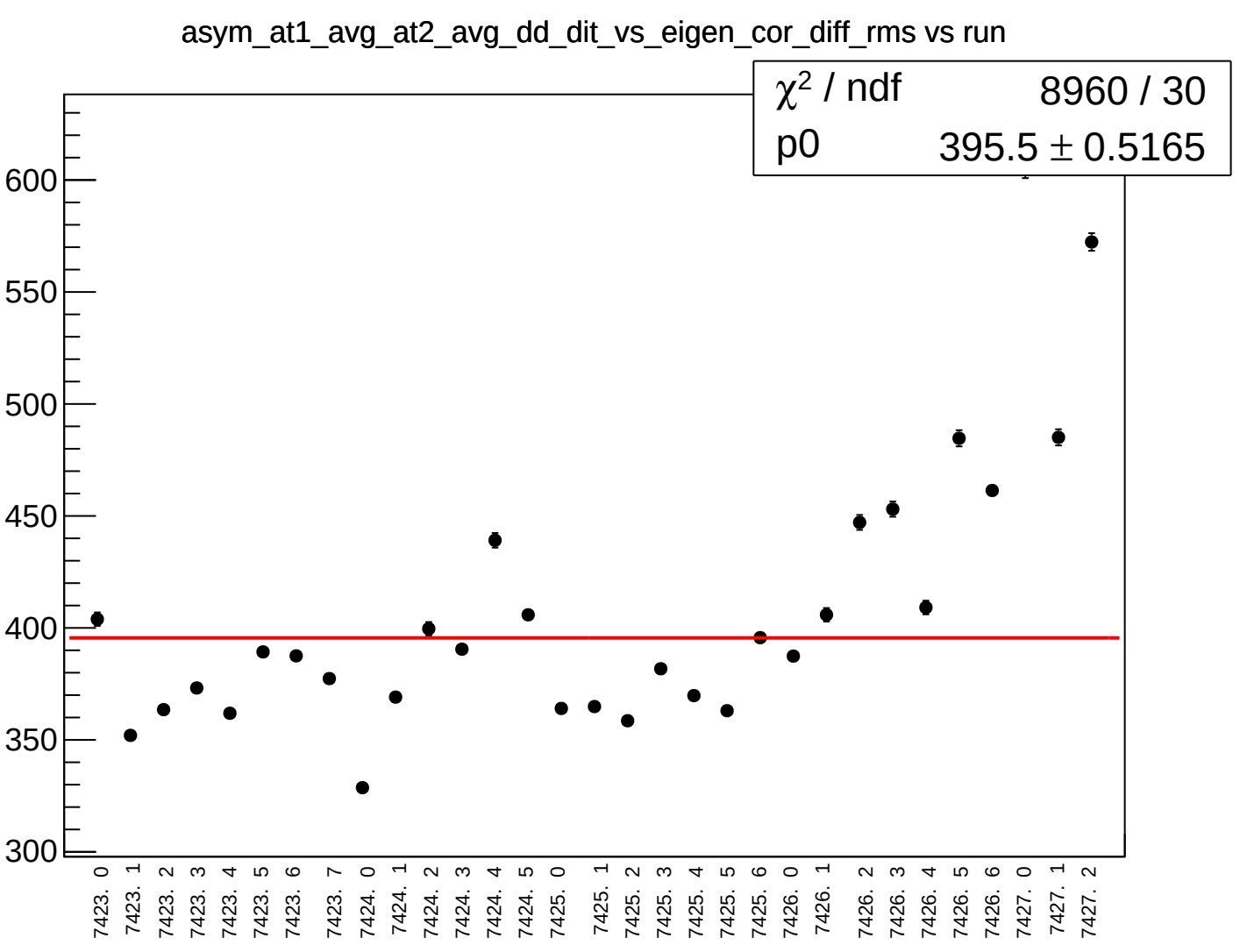

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 34.98 / 30
p0 −5.613e−14 ± 1.657e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.29
Std Dev 10.84
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.2369
Std Dev 1.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

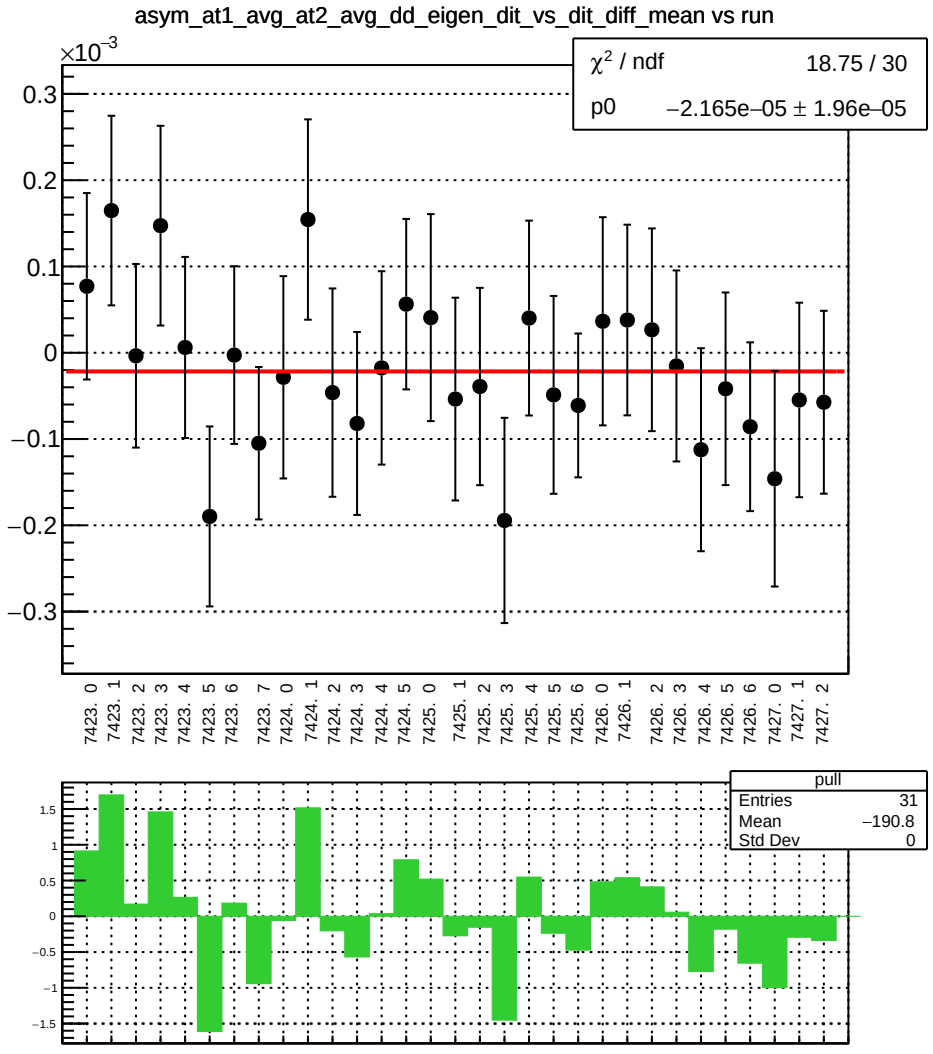

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.957e+05 / 30
p0 3.701e−11 ± 1.171e−13
1
0.8
0.6
0.4
0.2
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

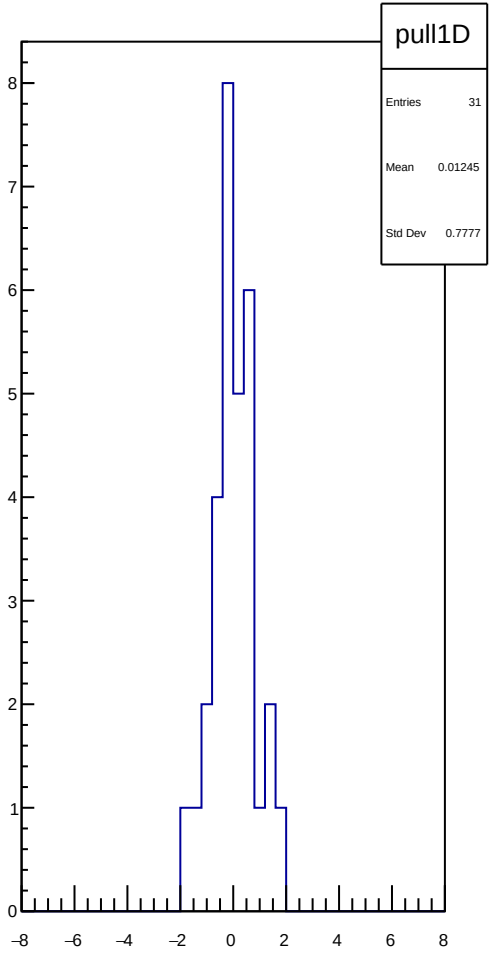

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05041 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002493
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

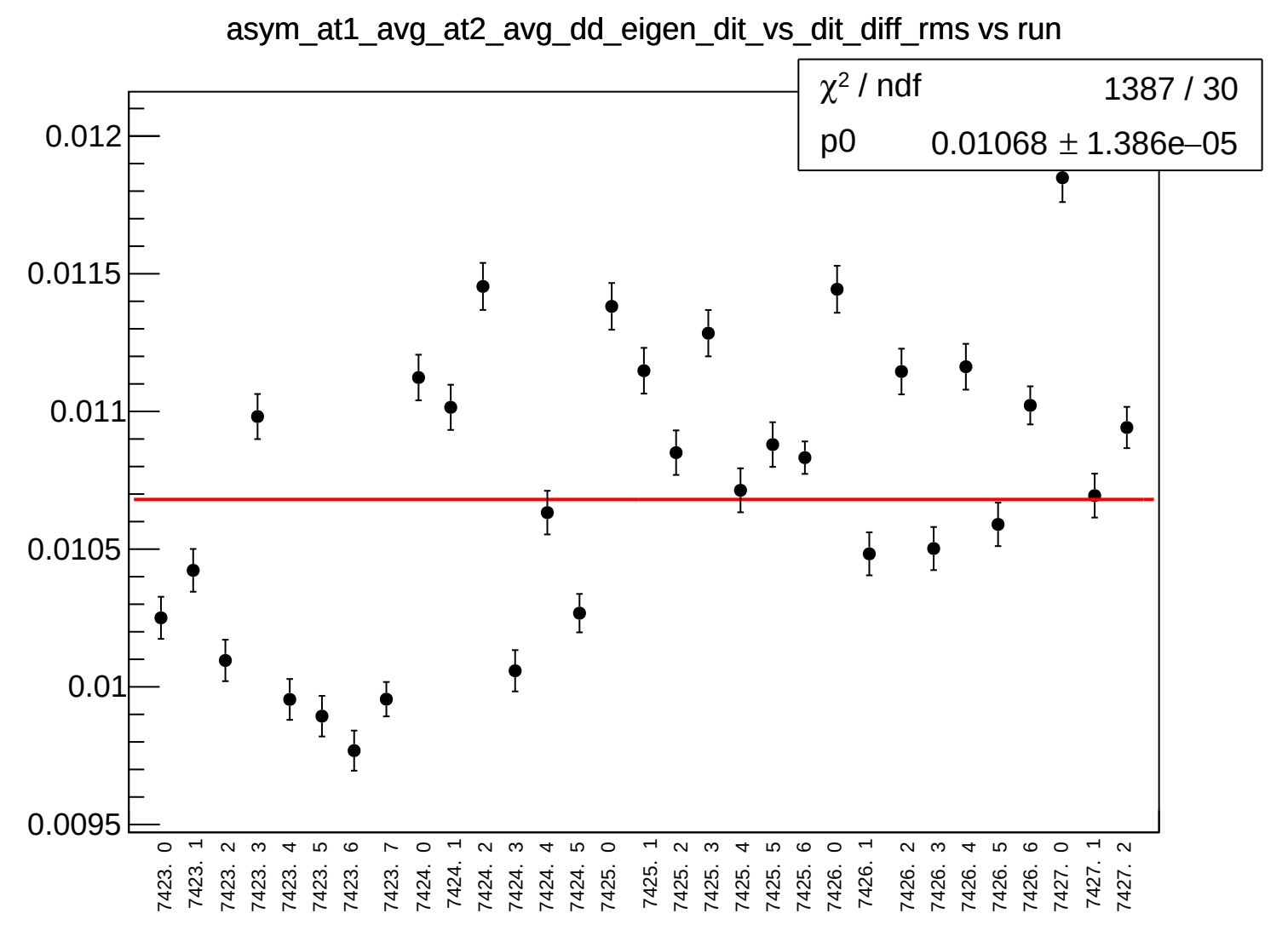

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

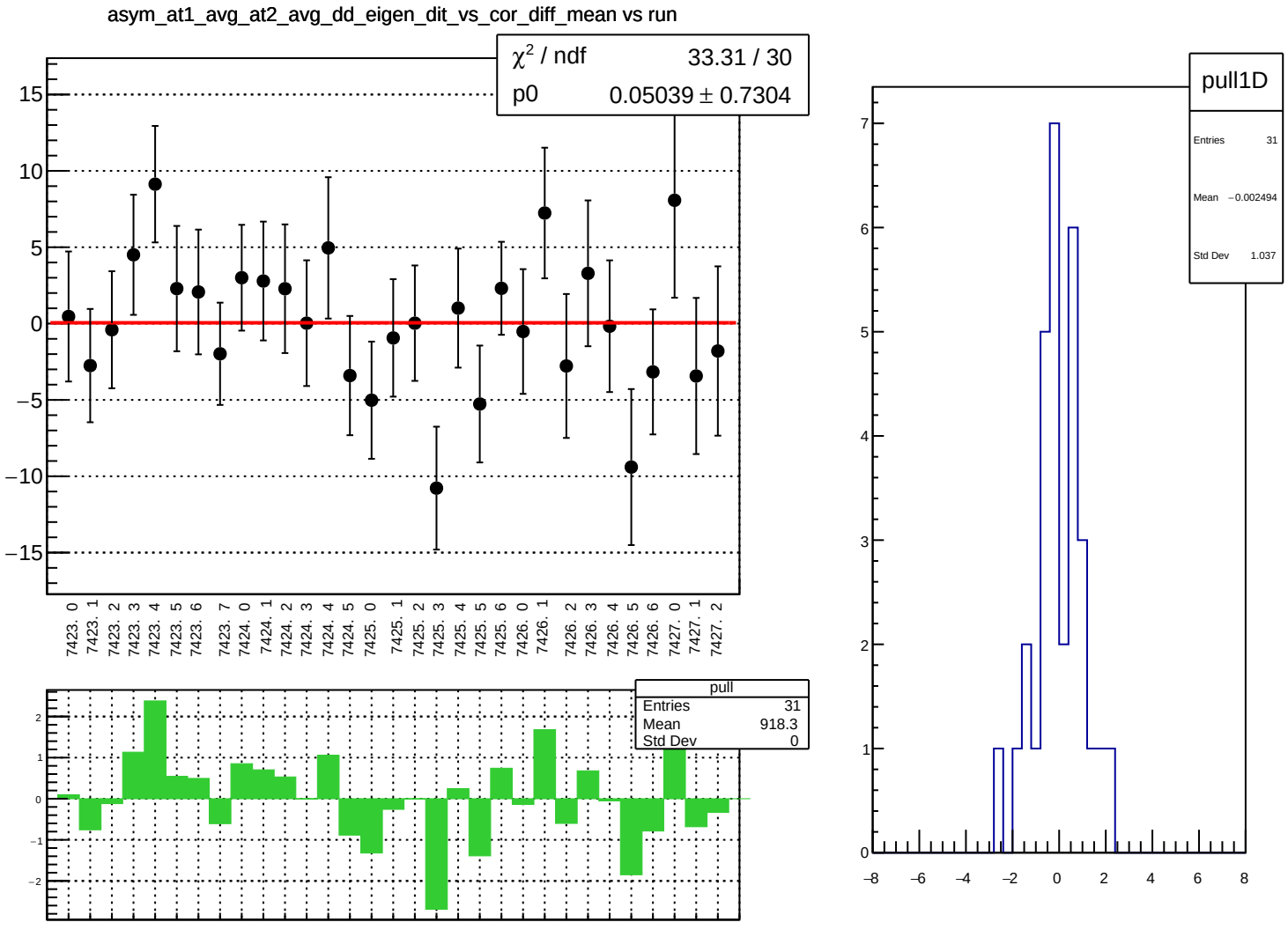

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05041 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002493
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

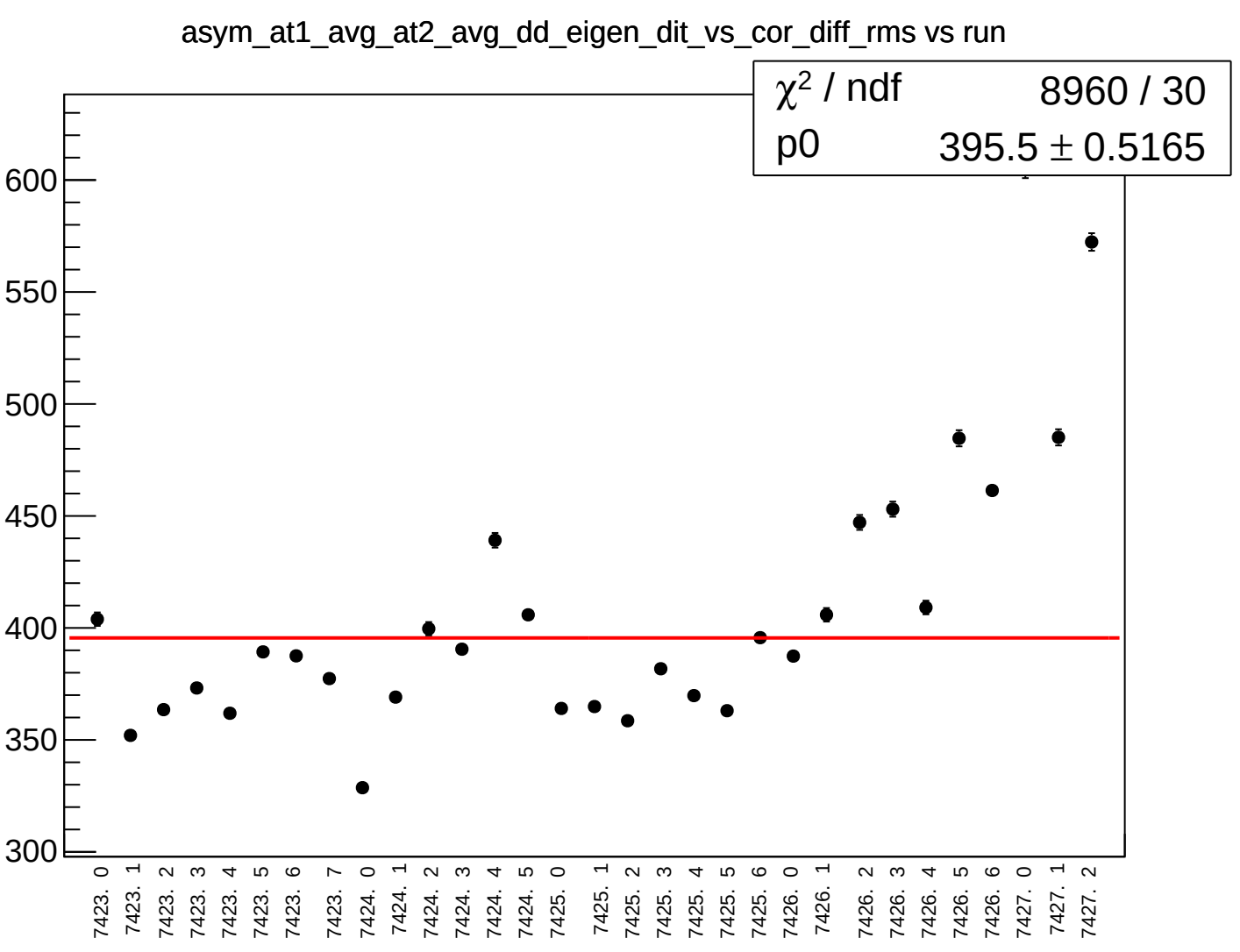

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

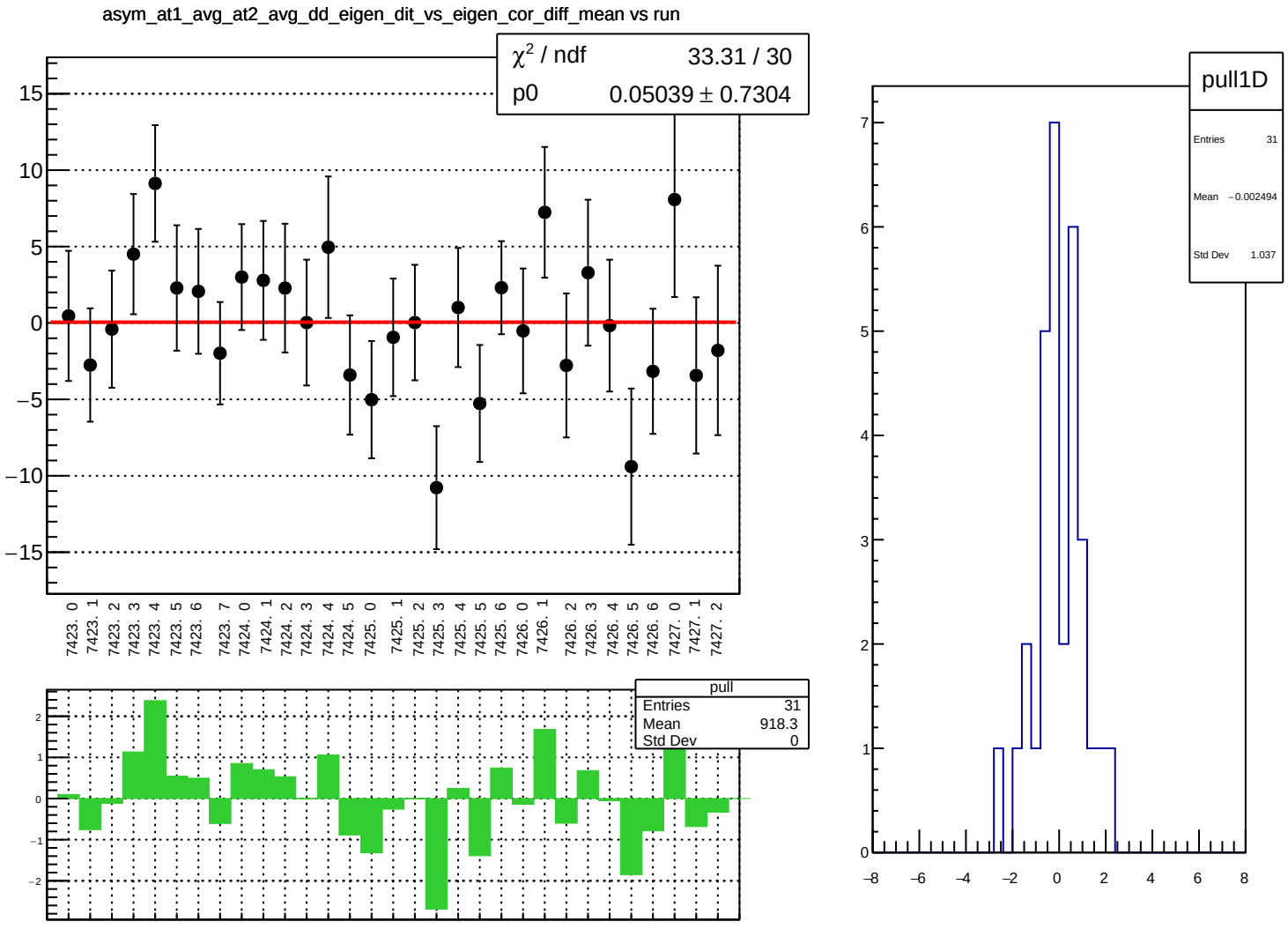

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.75 / 30
p0 −2.165e−05 ± 1.96e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −190.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

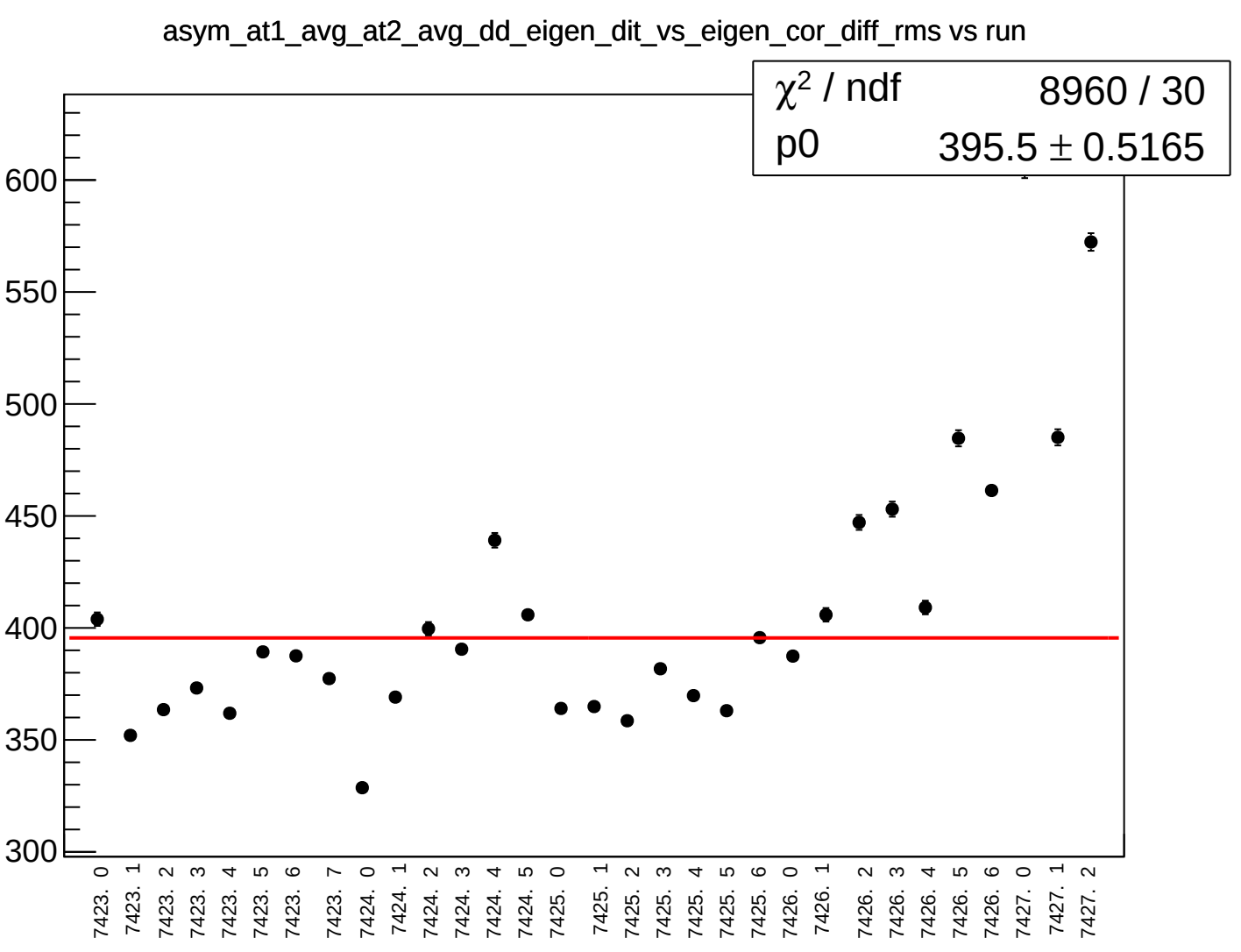

pull1D
Entries 31
Mean 0.01245
Std Dev 0.7777
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

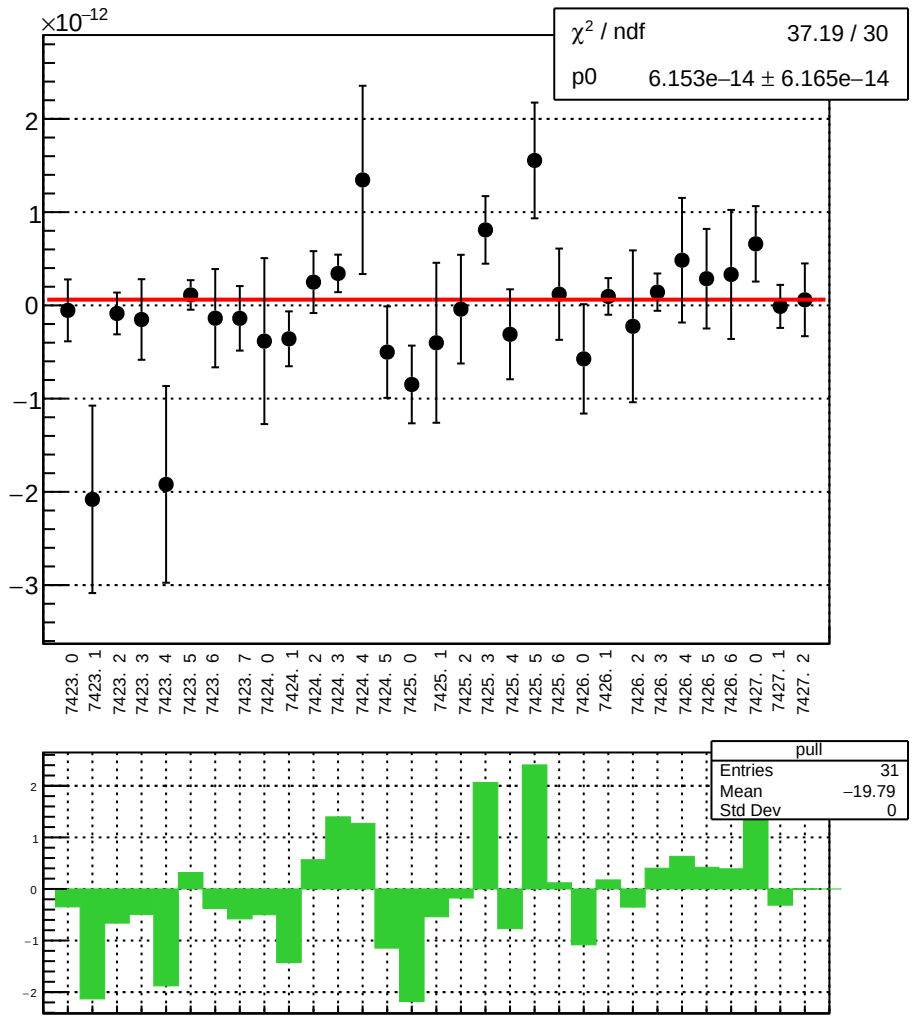

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1387 / 30
p0 0.01068 ± 1.386e−05
0.012
0.0115
0.011
0.0105
0.01
0.0095
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

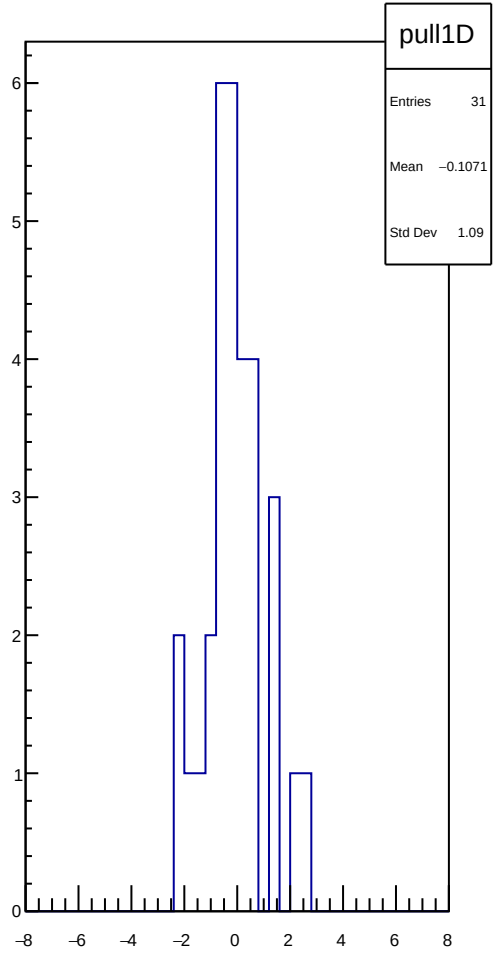

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05039 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002494
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

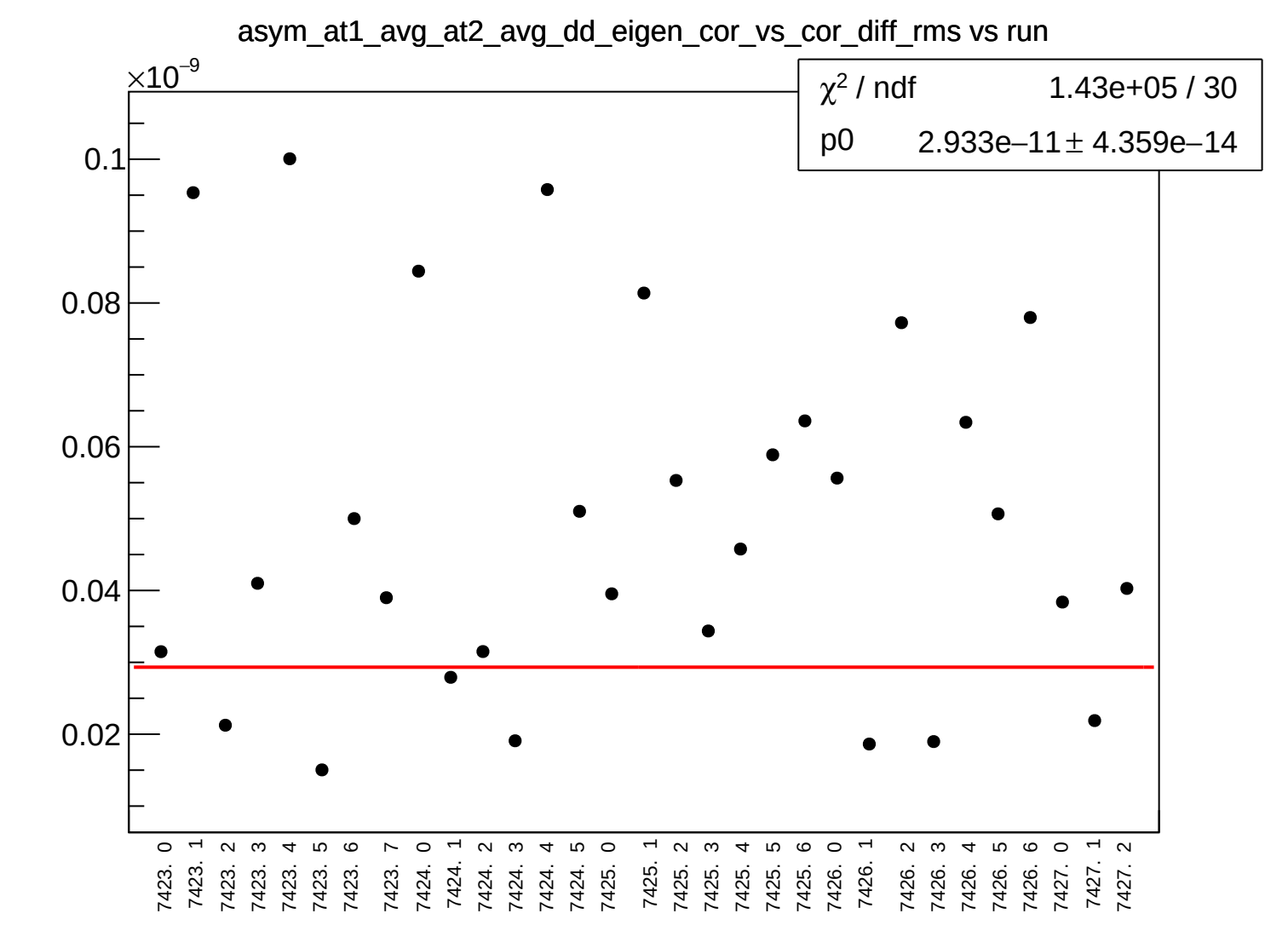

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

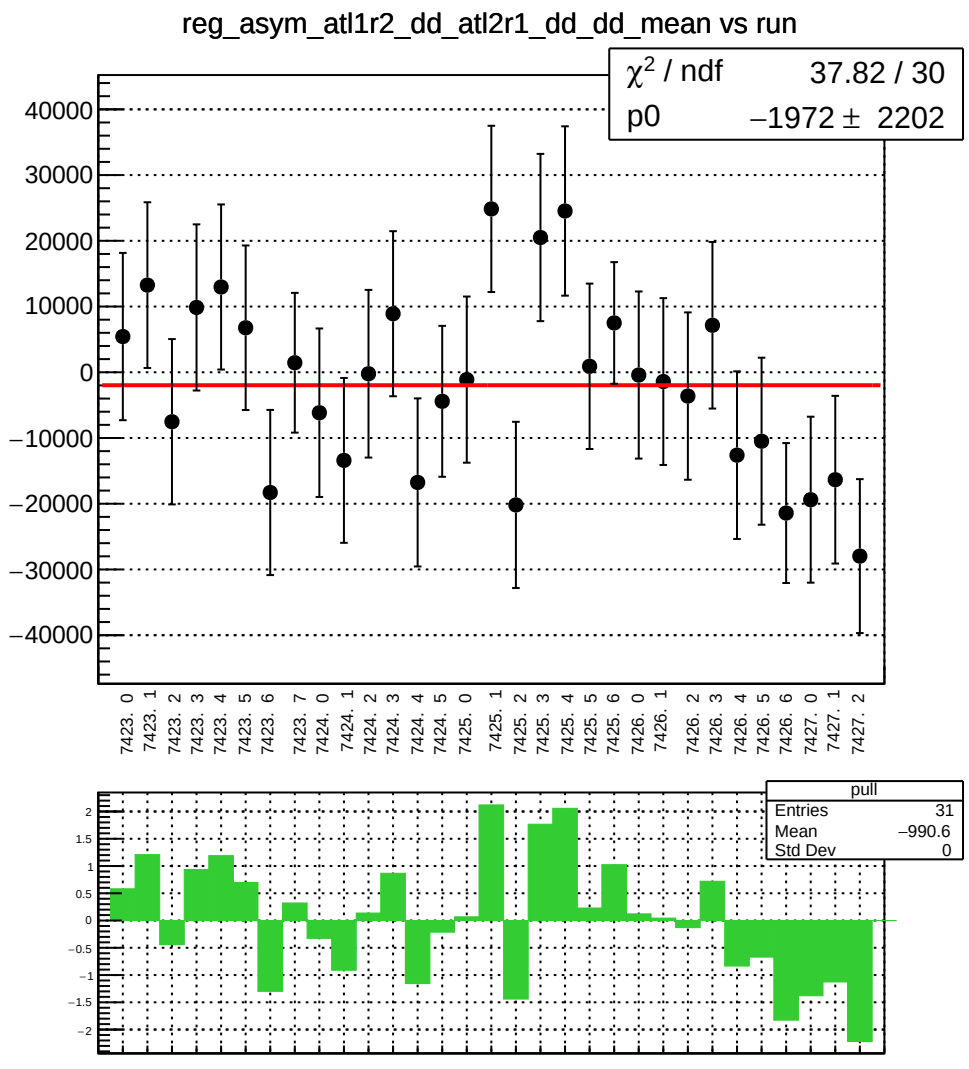

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05039 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002494
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

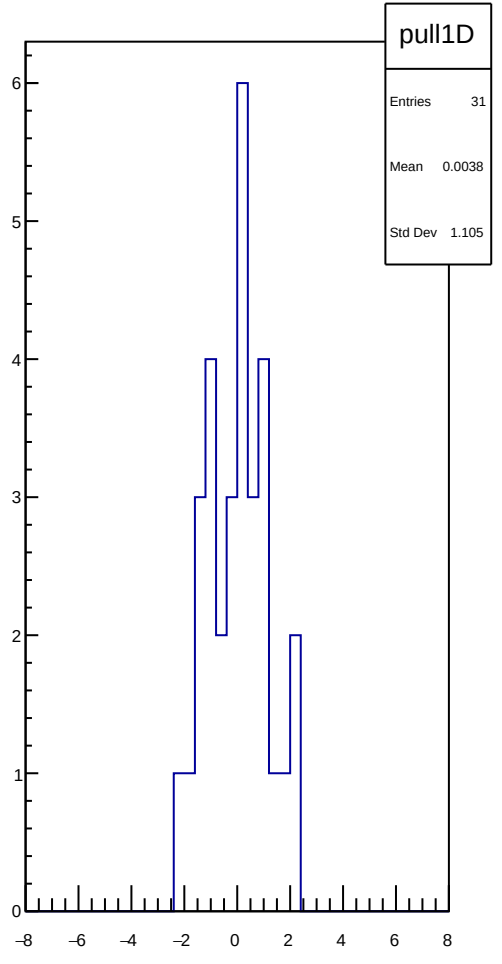

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

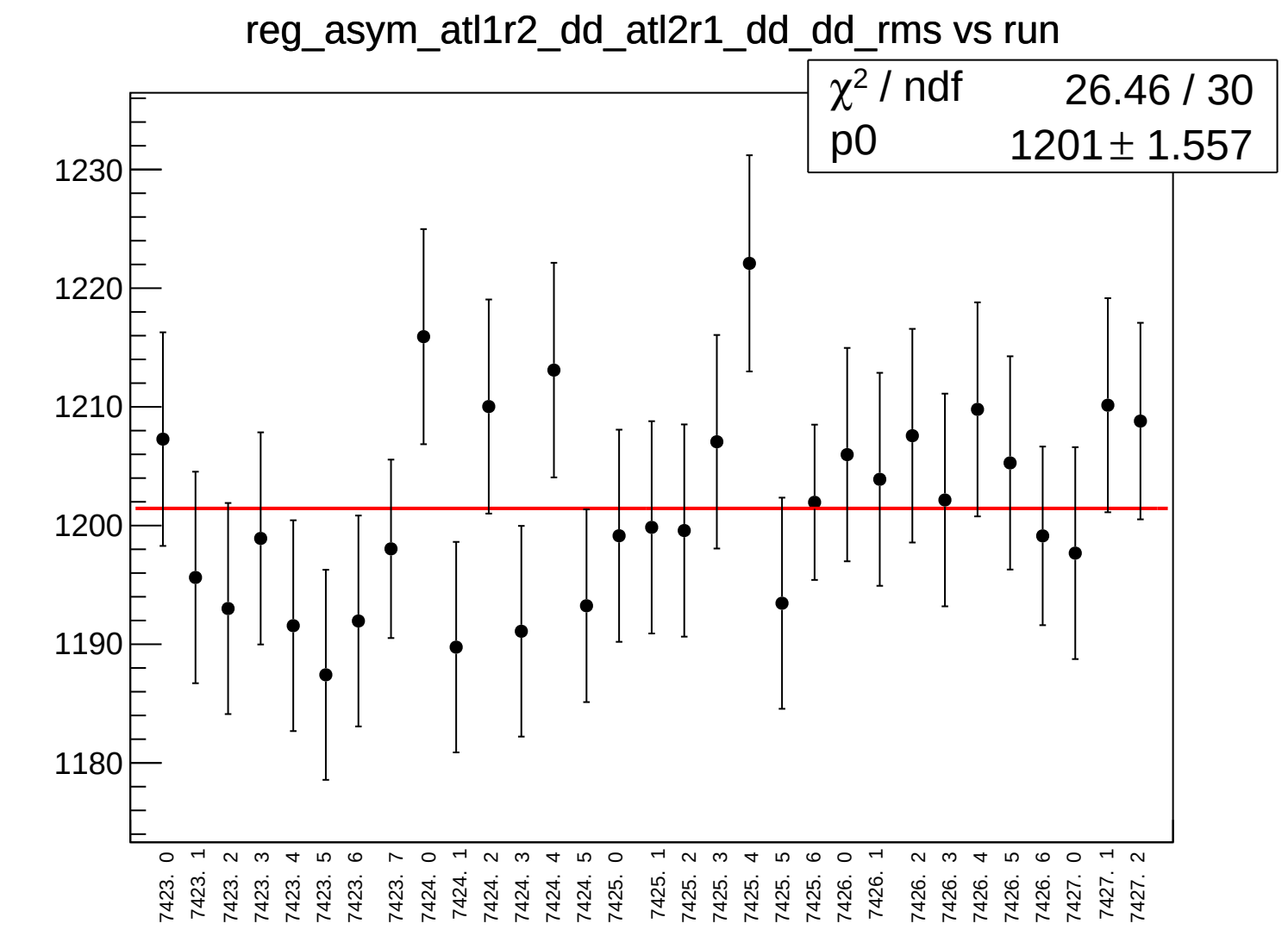

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.19 / 30
p0 6.153e−14 ± 6.165e−14
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −19.79
Std Dev 0

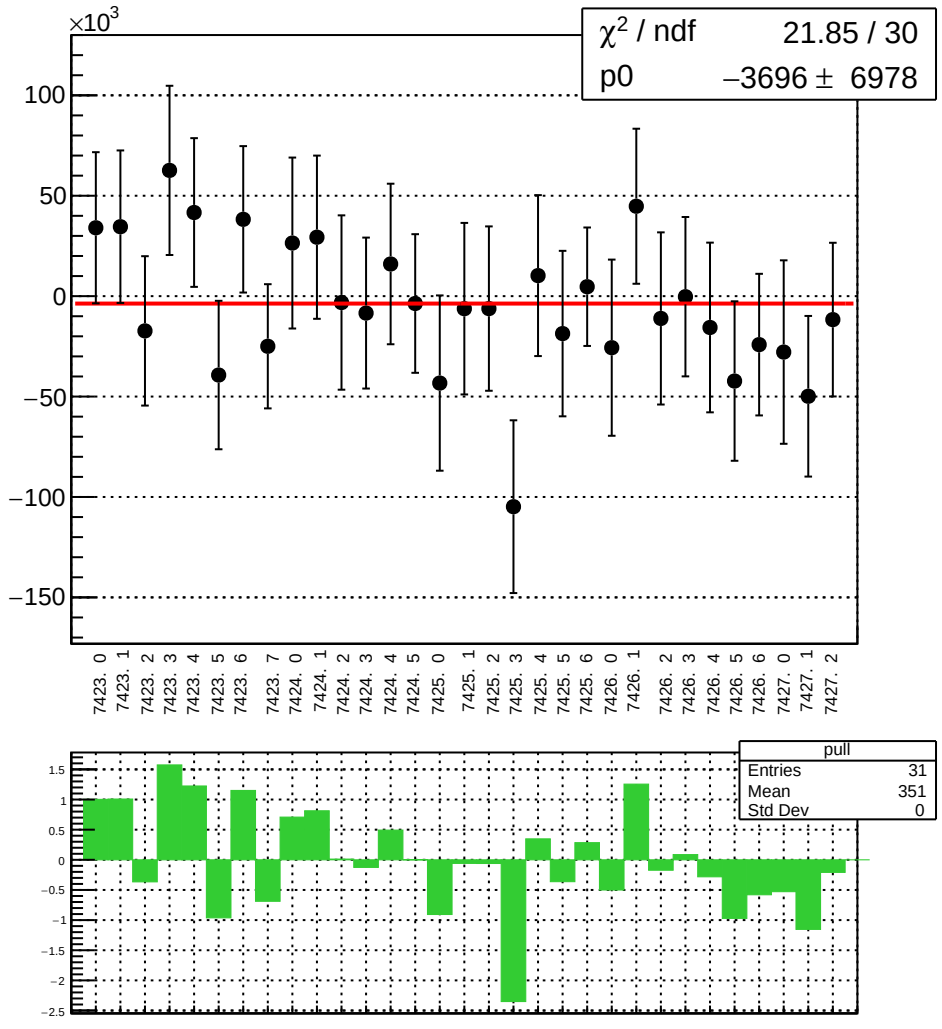

pull1D
Entries 31
Mean −0.1071
Std Dev 1.09
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

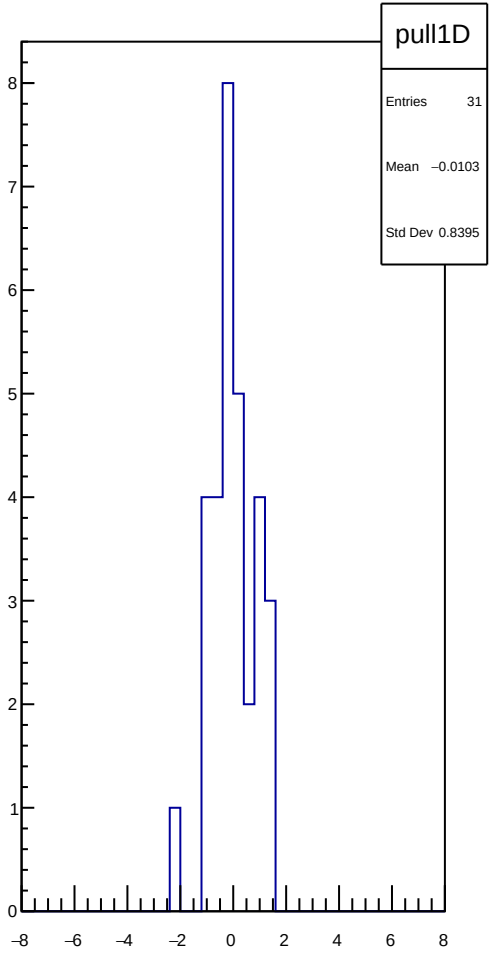

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.43e+05 / 30
p0 2.933e−11 ± 4.359e−14
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

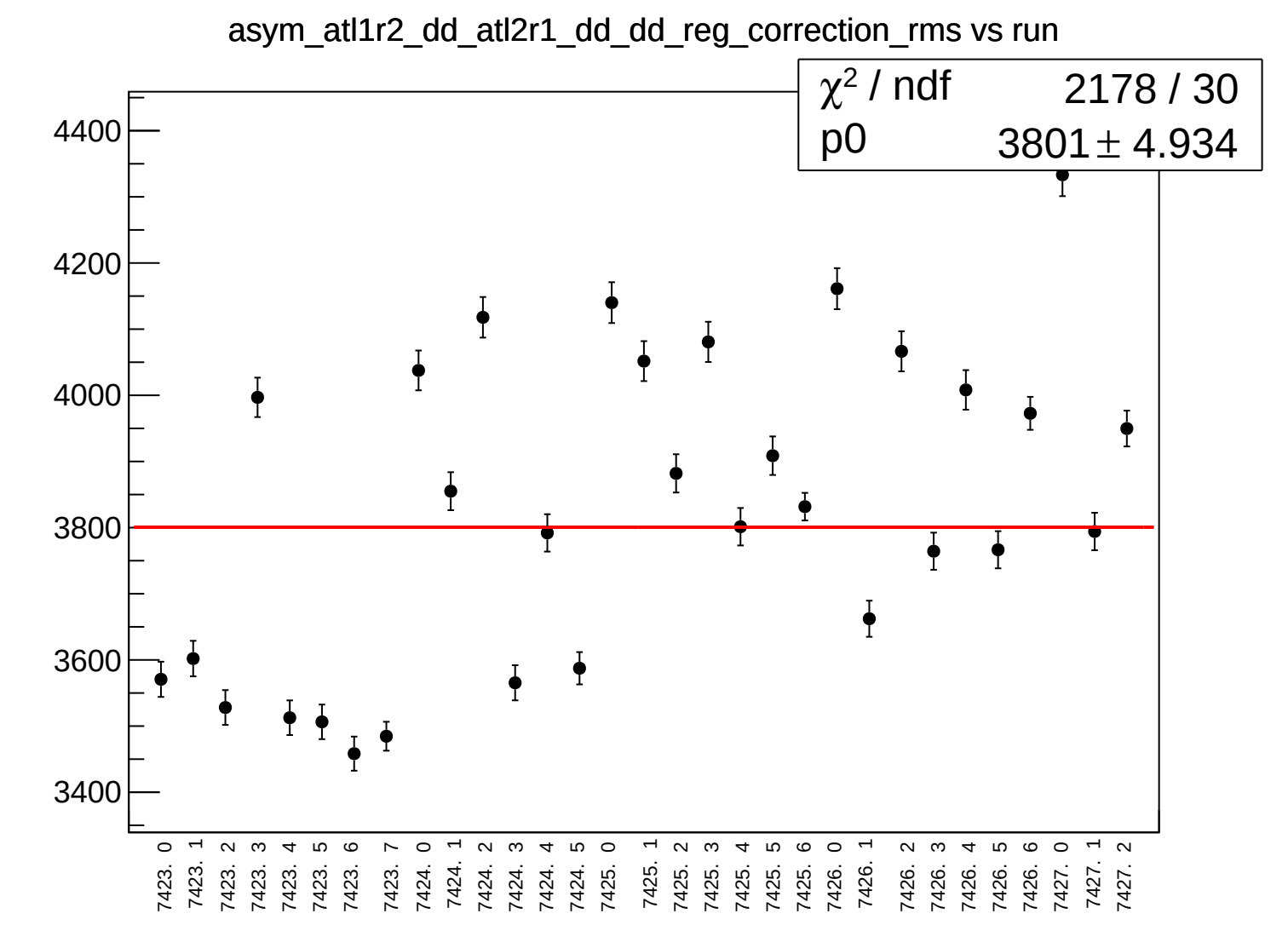

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 37.82 / 30
p0 −1972 ± 2202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −990.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

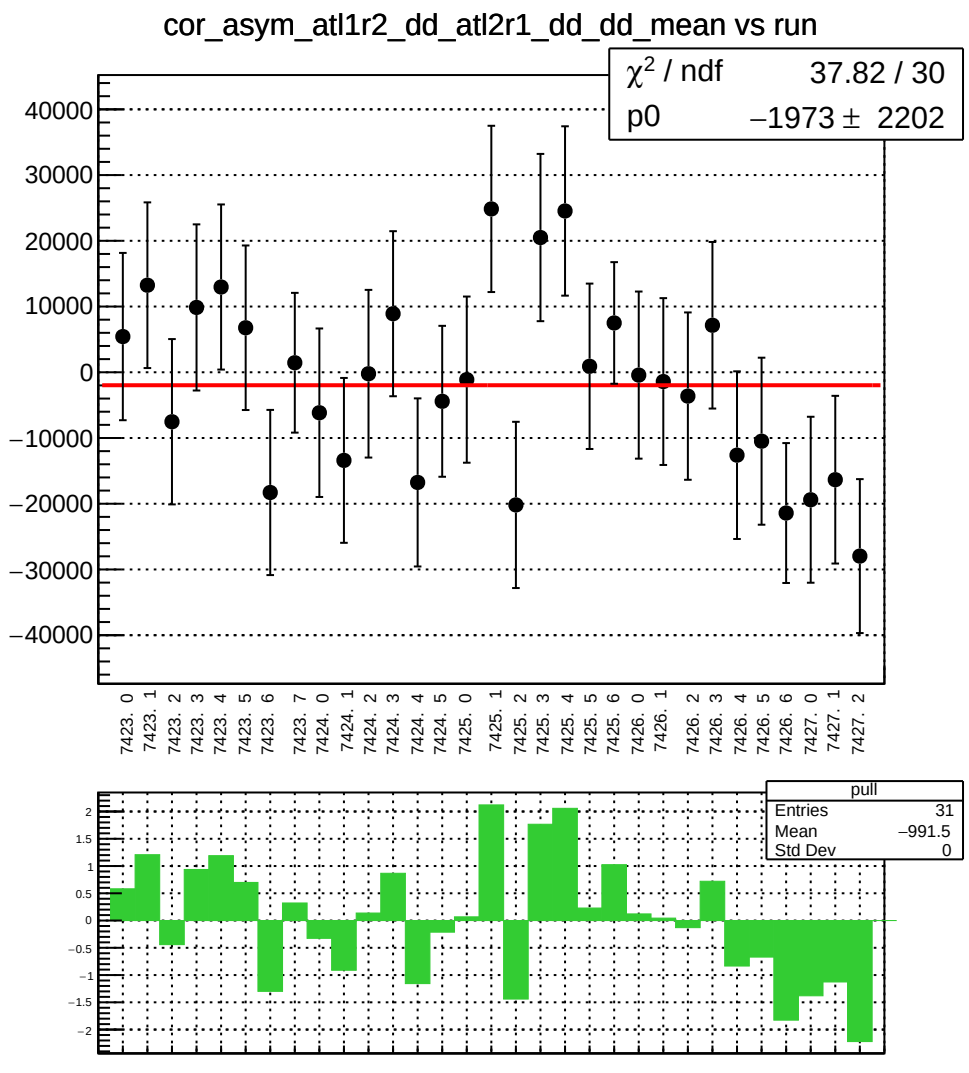

pull1D
Entries 31
Mean 0.0038
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

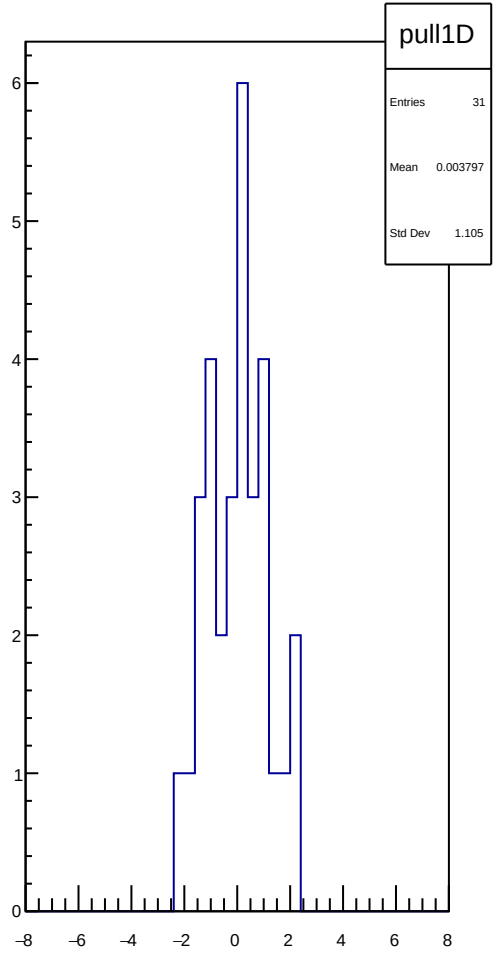

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 26.46 / 30
p0 1201 ± 1.557
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

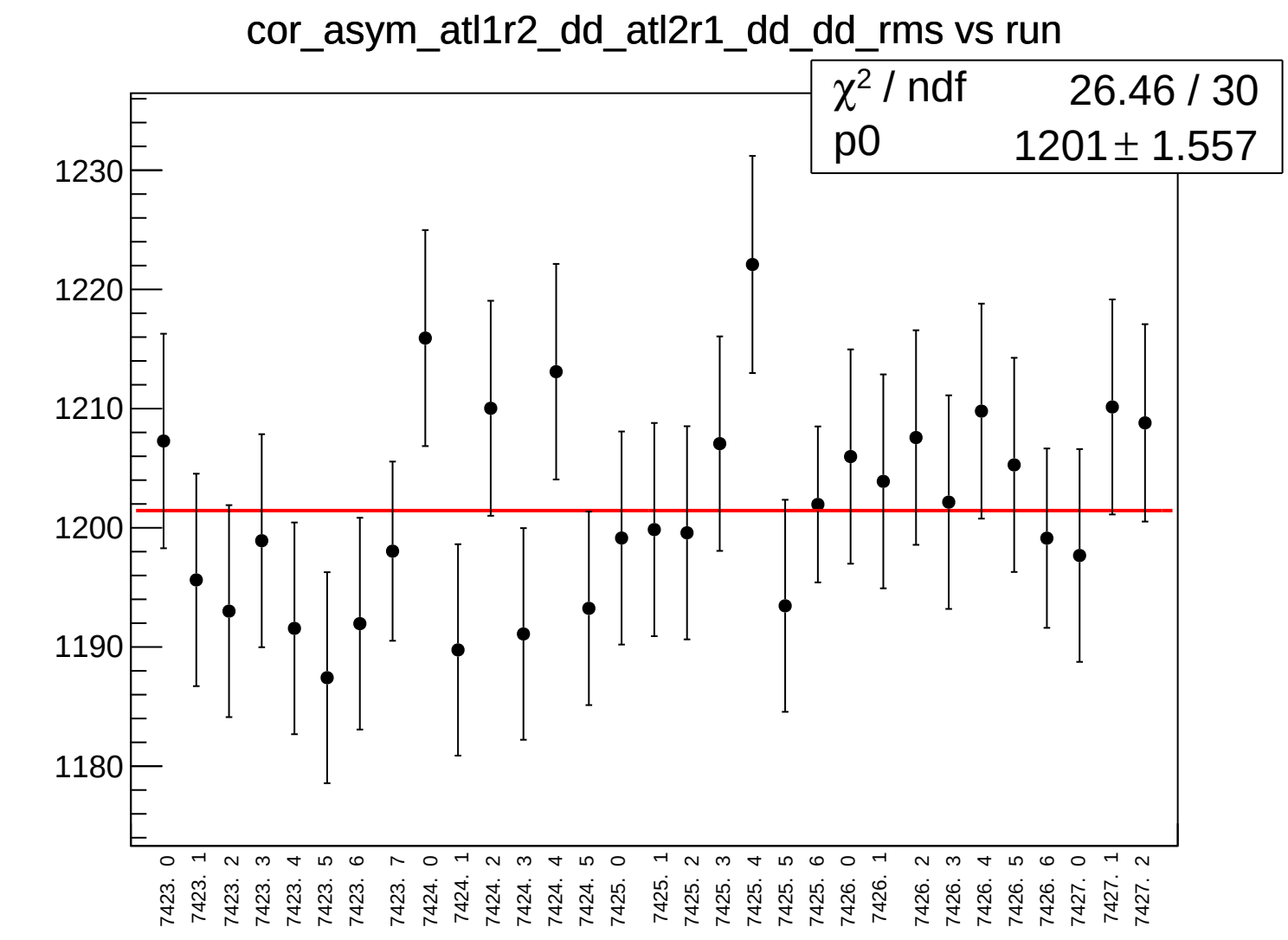

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 21.85 / 30
p0 −3696 ± 6978
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 351
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

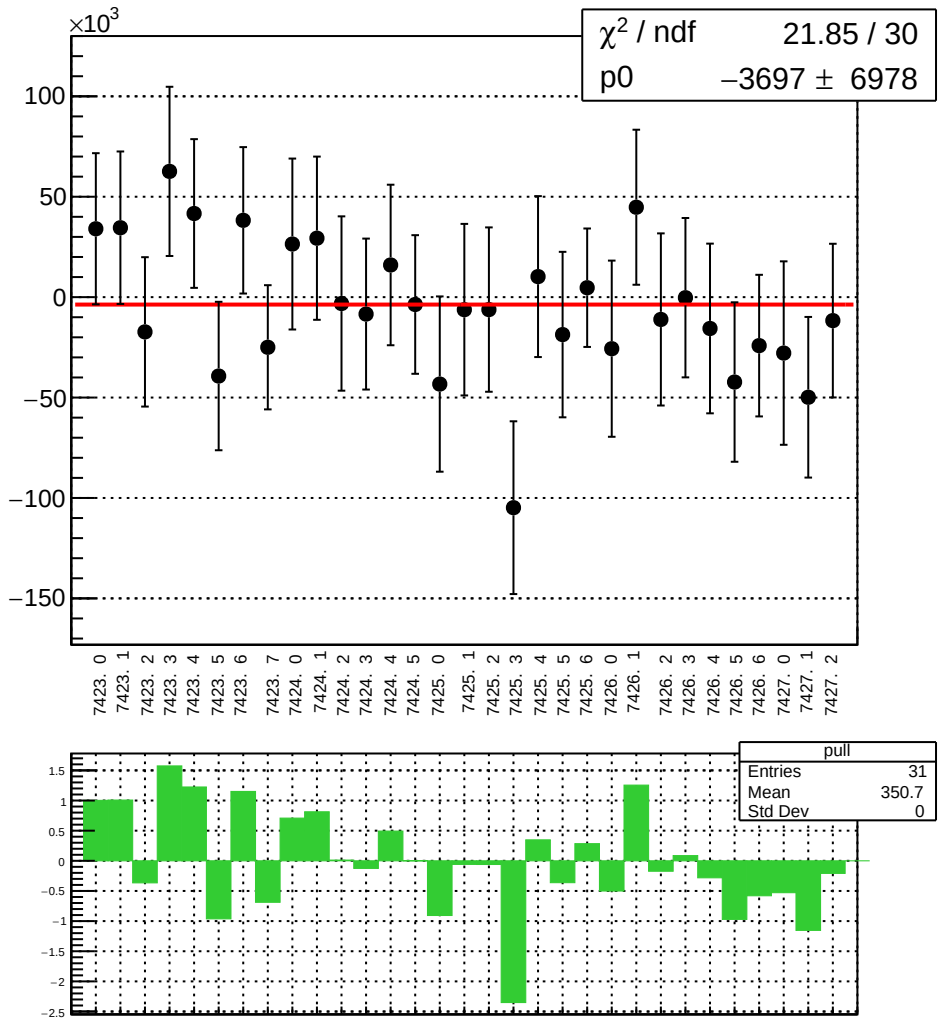

pull1D
Entries 31
Mean −0.0103
Std Dev 0.8395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

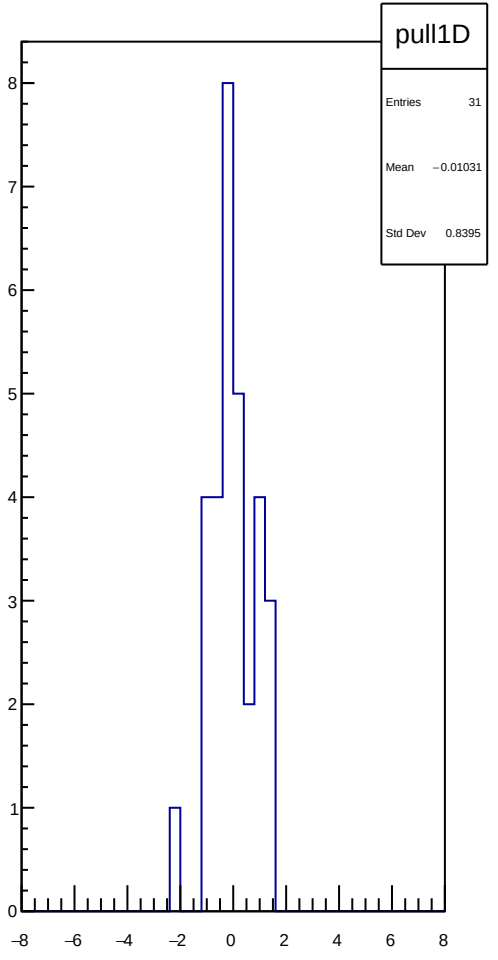

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 2178 / 30
p0 3801 ± 4.934
4400
4200
4000
3800
3600
3400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

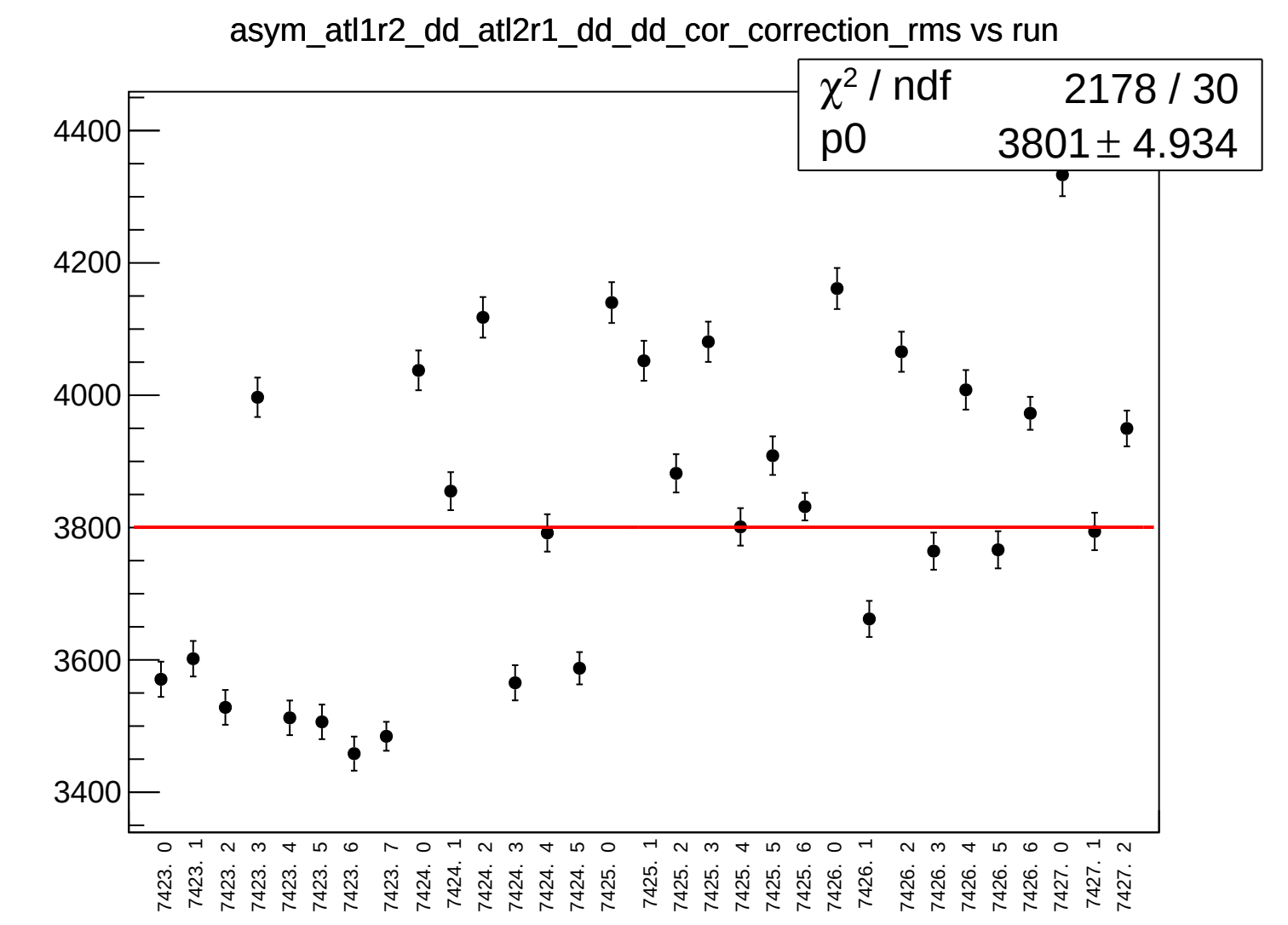

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 37.82 / 30
p0 −1973 ± 2202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −991.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

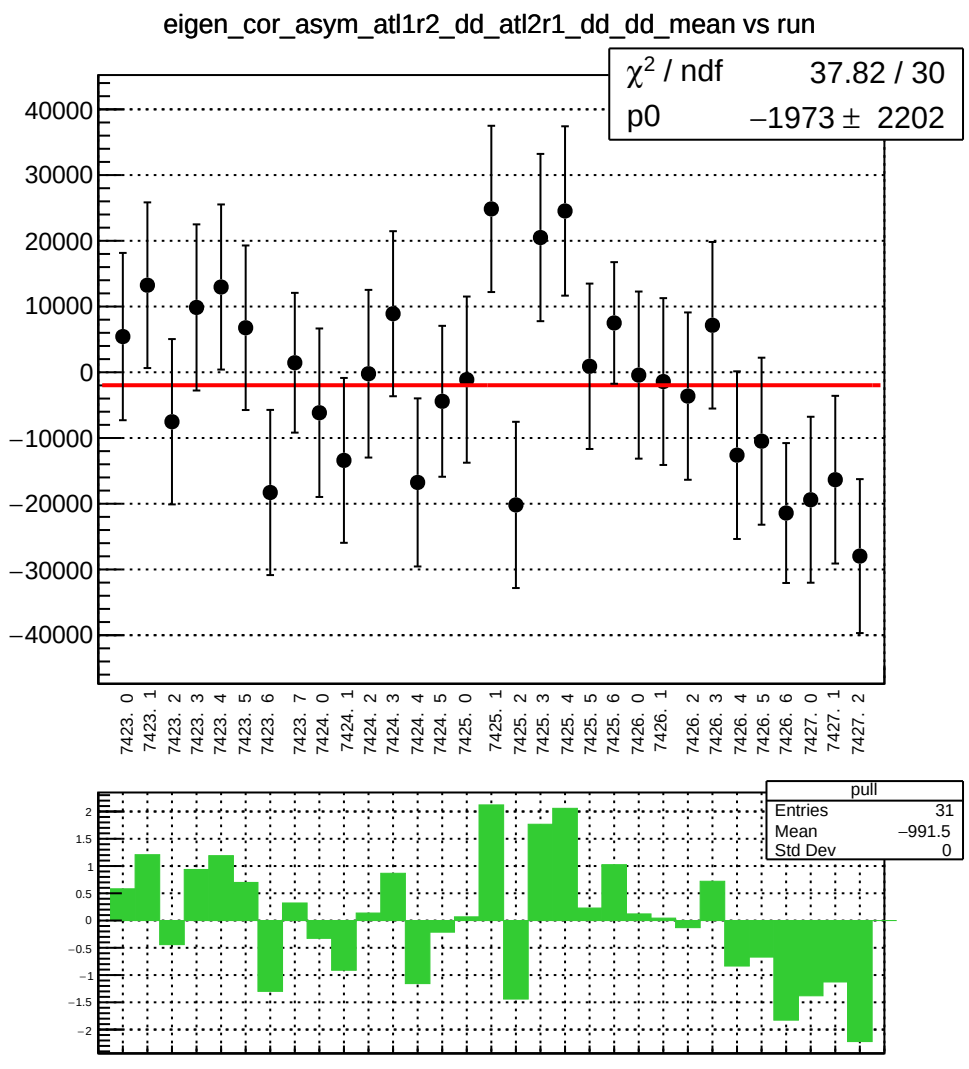

pull1D
Entries 31
Mean 0.003797
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

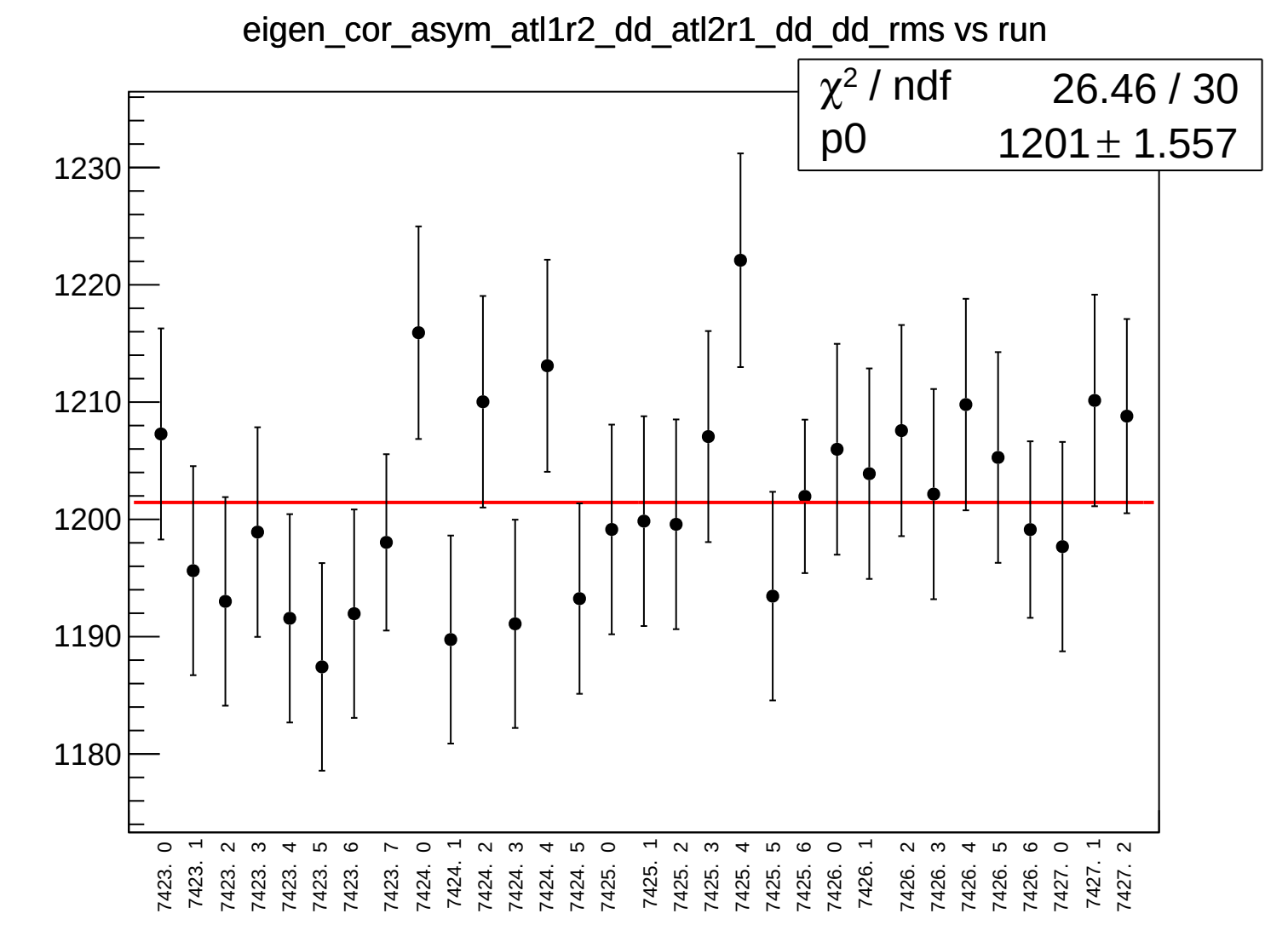

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 26.46 / 30
p0 1201 ± 1.557
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

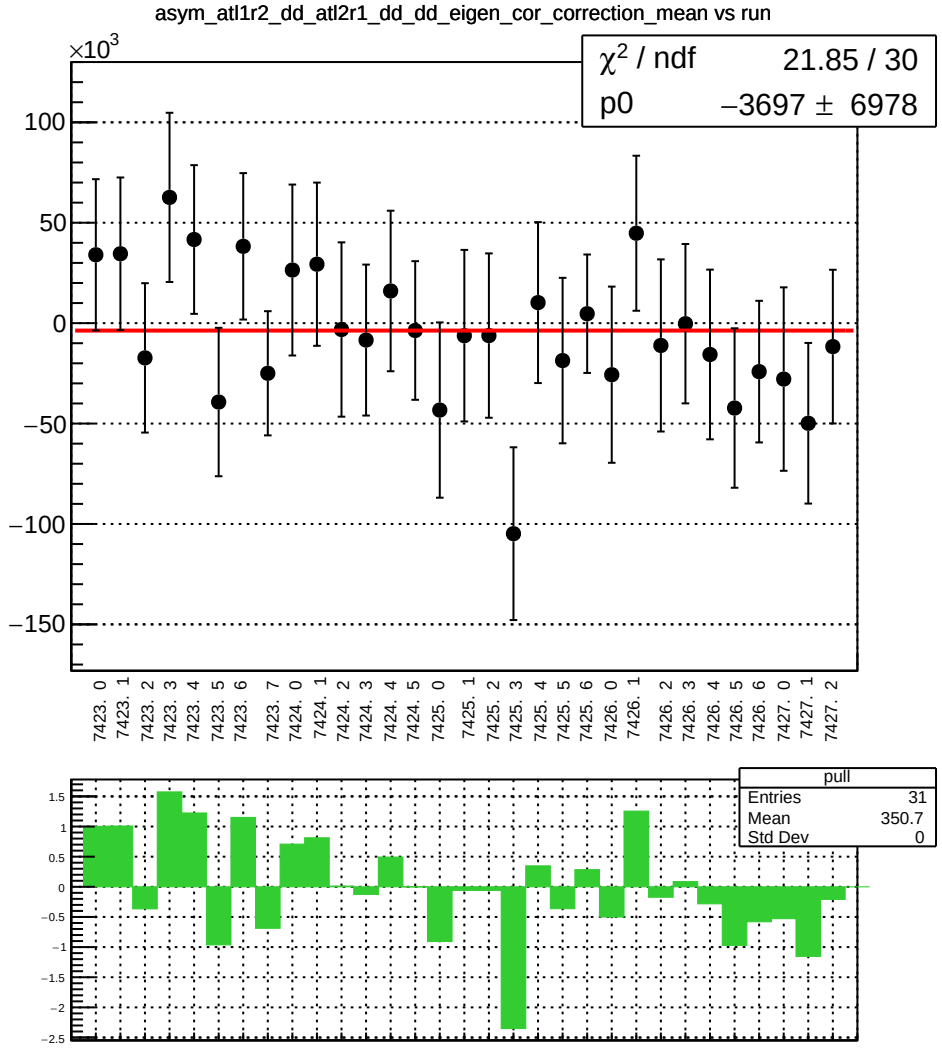

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 21.85 / 30
p0 −3697 ± 6978
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 350.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

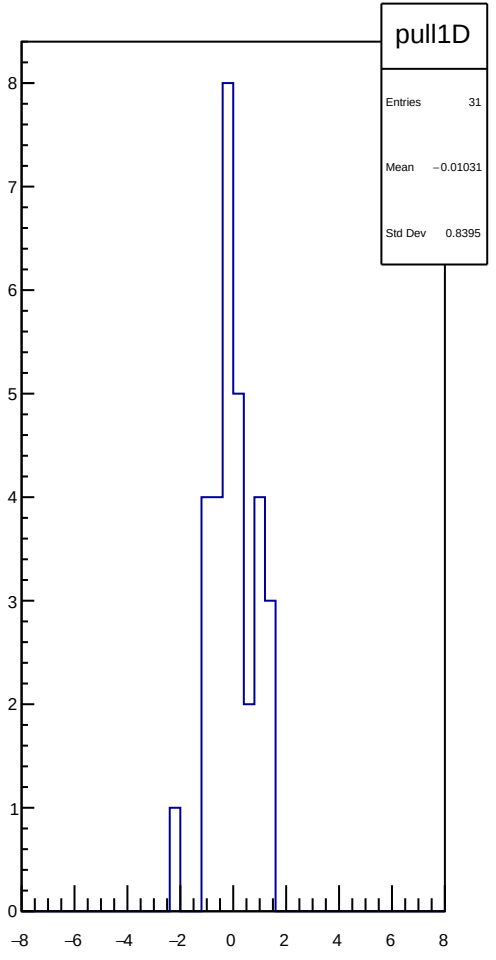

pull1D
Entries 31
Mean −0.01031
Std Dev 0.8395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

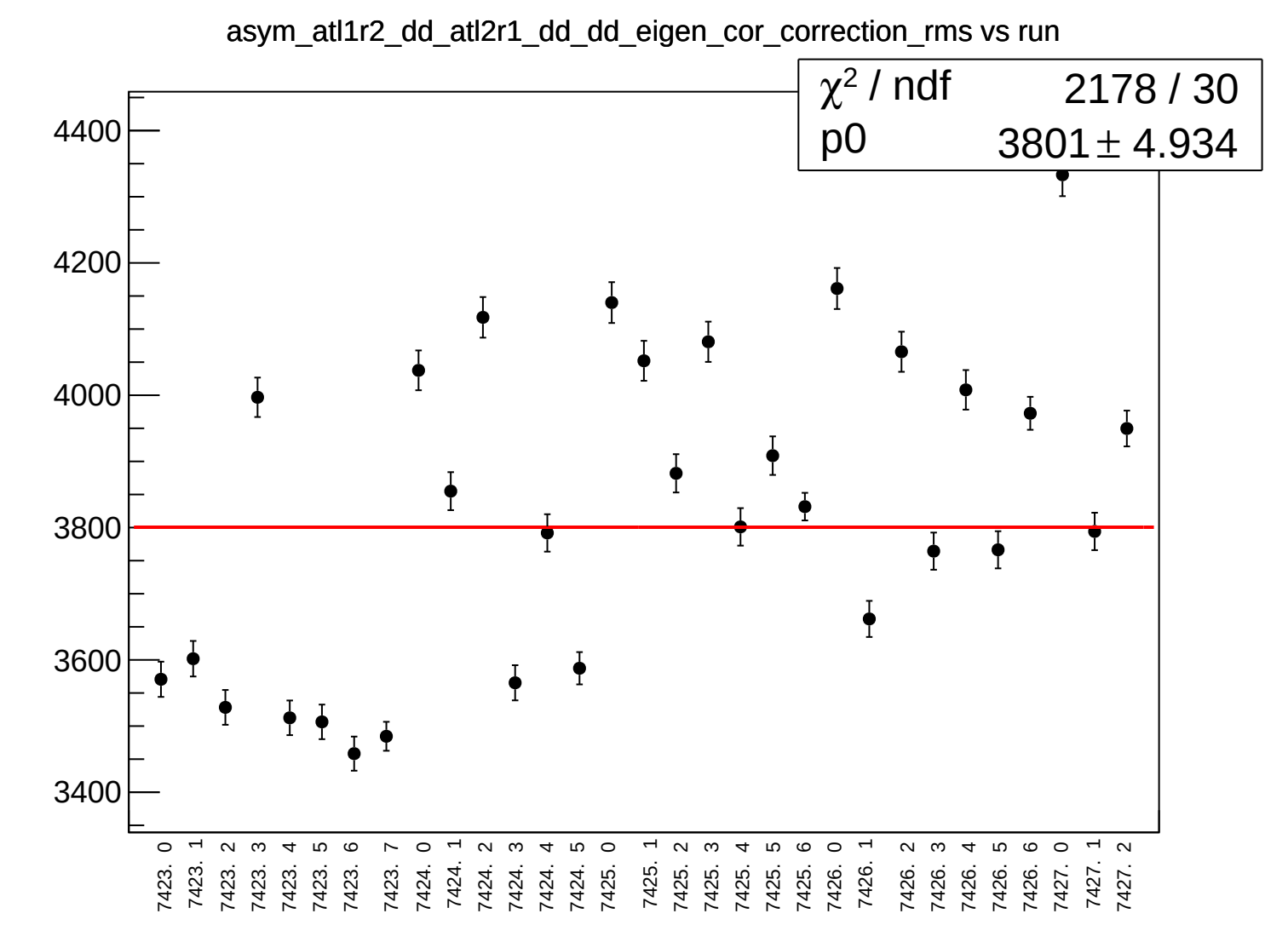

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 2178 / 30
p0 3801 ± 4.934
4400
4200
4000
3800
3600
3400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

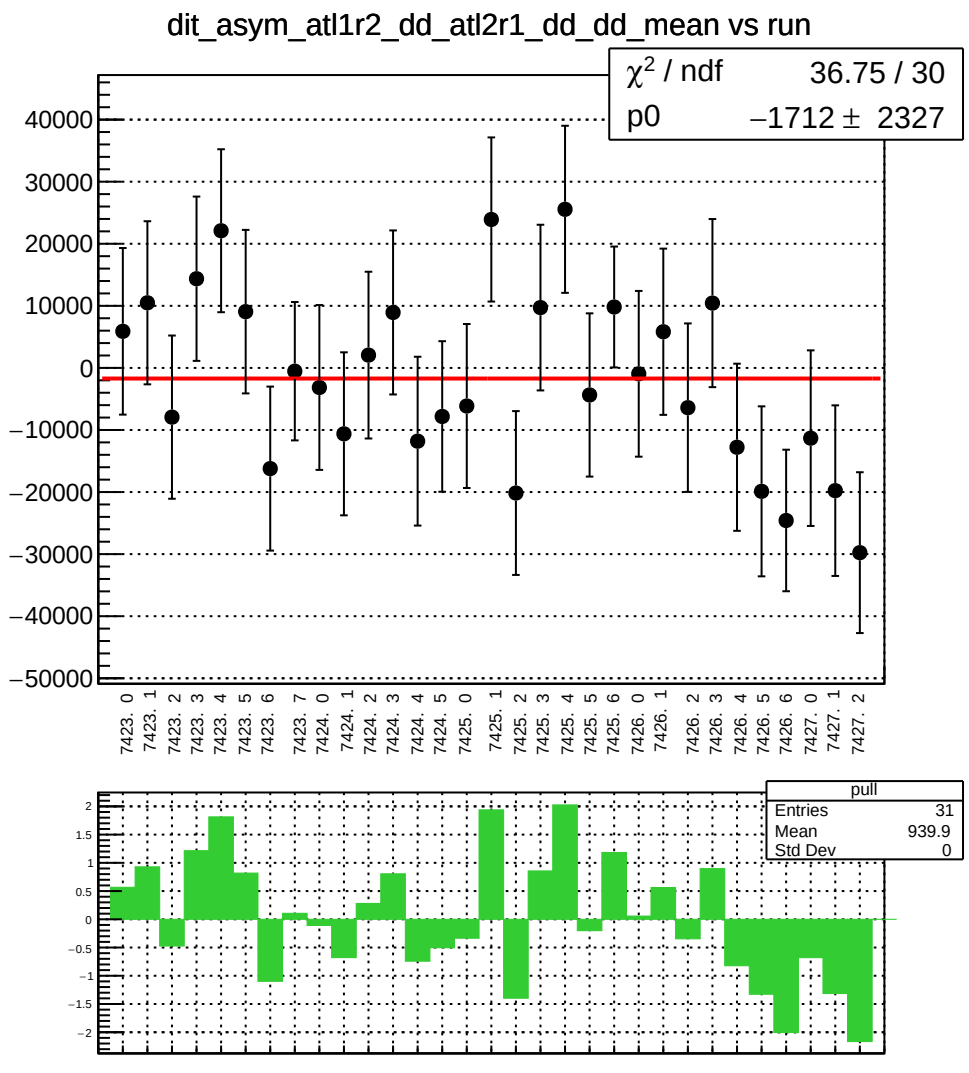

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 37.82 / 30
p0 −1973 ± 2202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −991.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.003797
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

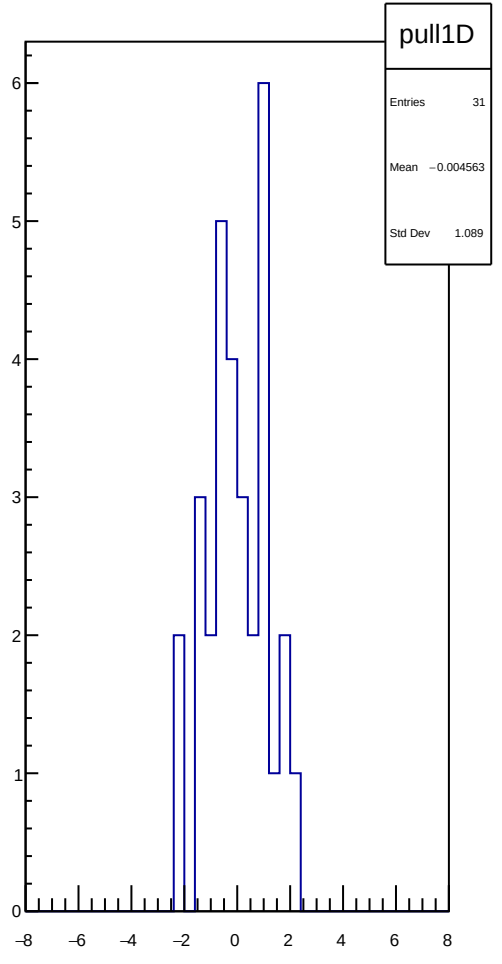

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 26.46 / 30
p0 1201 ± 1.557
1230
1220
1210
1200
1190
1180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

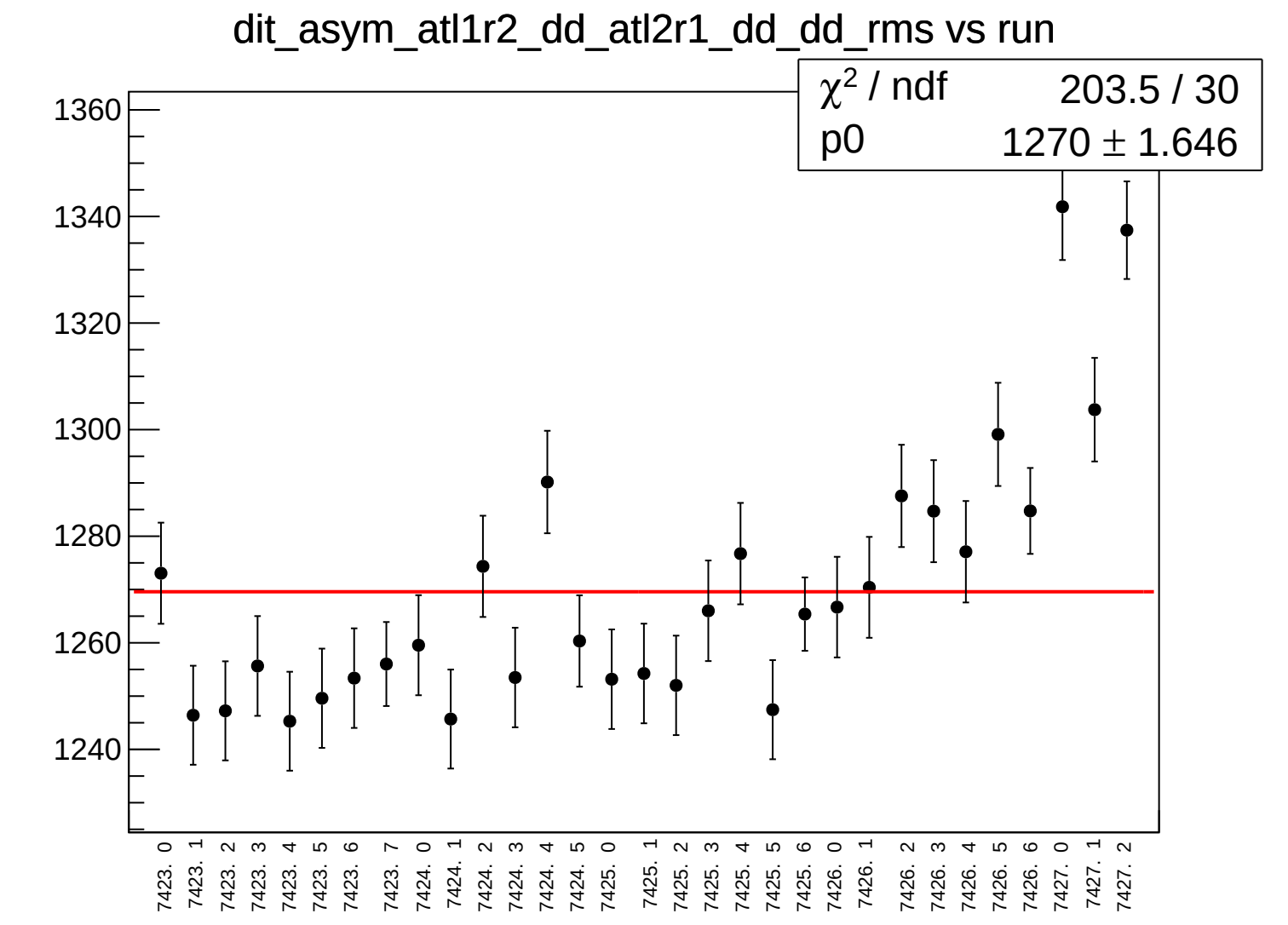

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.85 / 30
p0 −3697 ± 6978
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 350.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

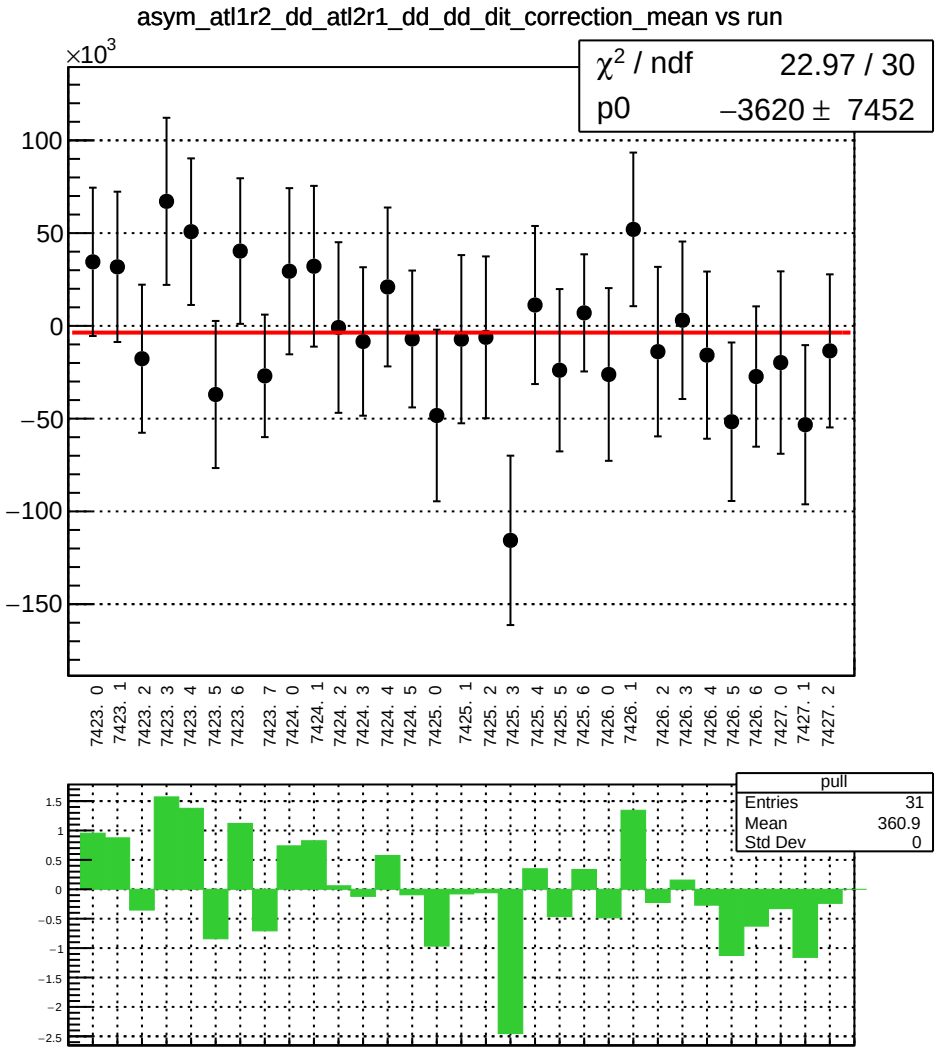

pull1D
Entries 31
Mean −0.01031
Std Dev 0.8395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

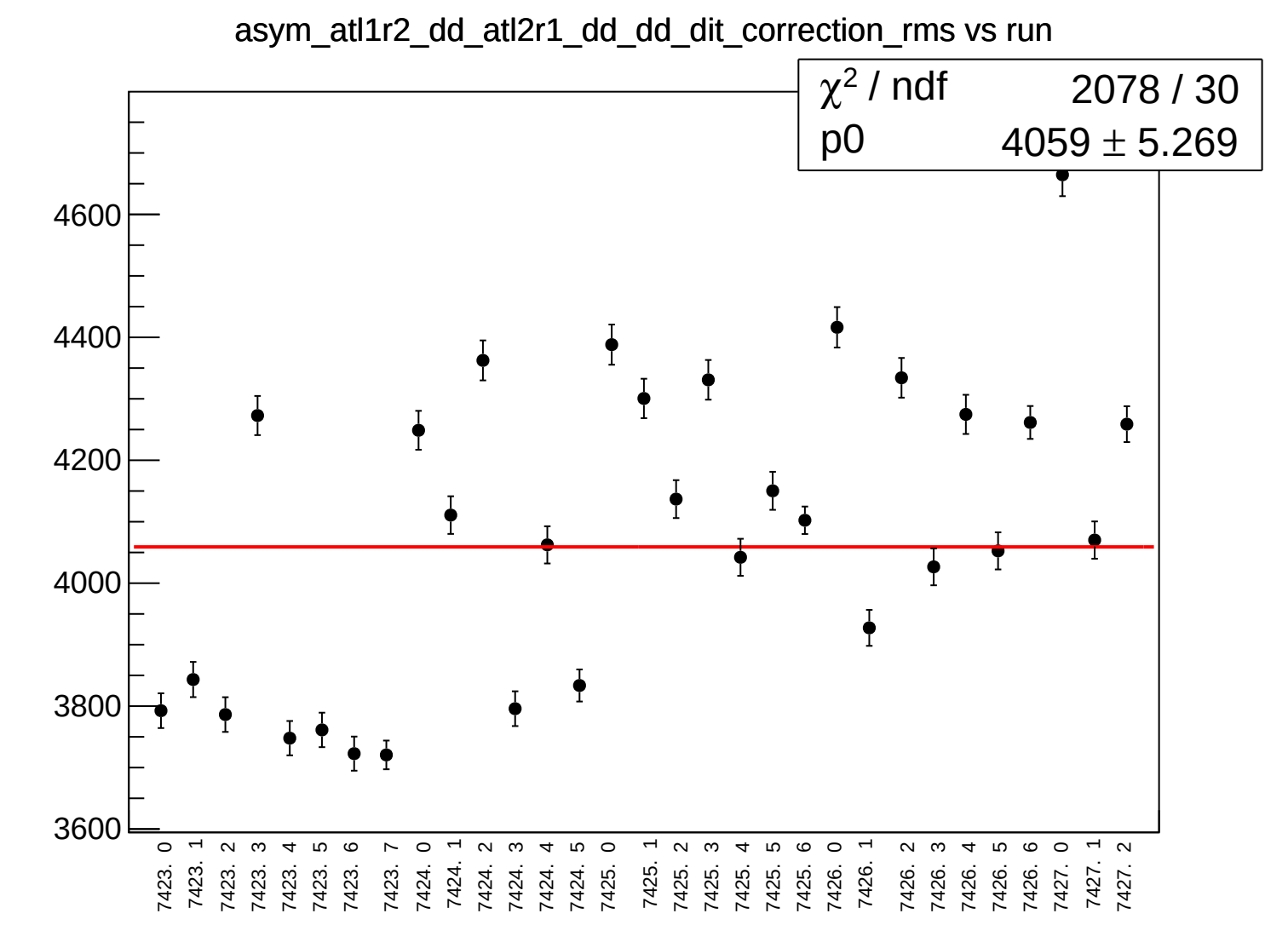

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2178 / 30
p0 3801 ± 4.934
4400
4200
4000
3800
3600
3400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

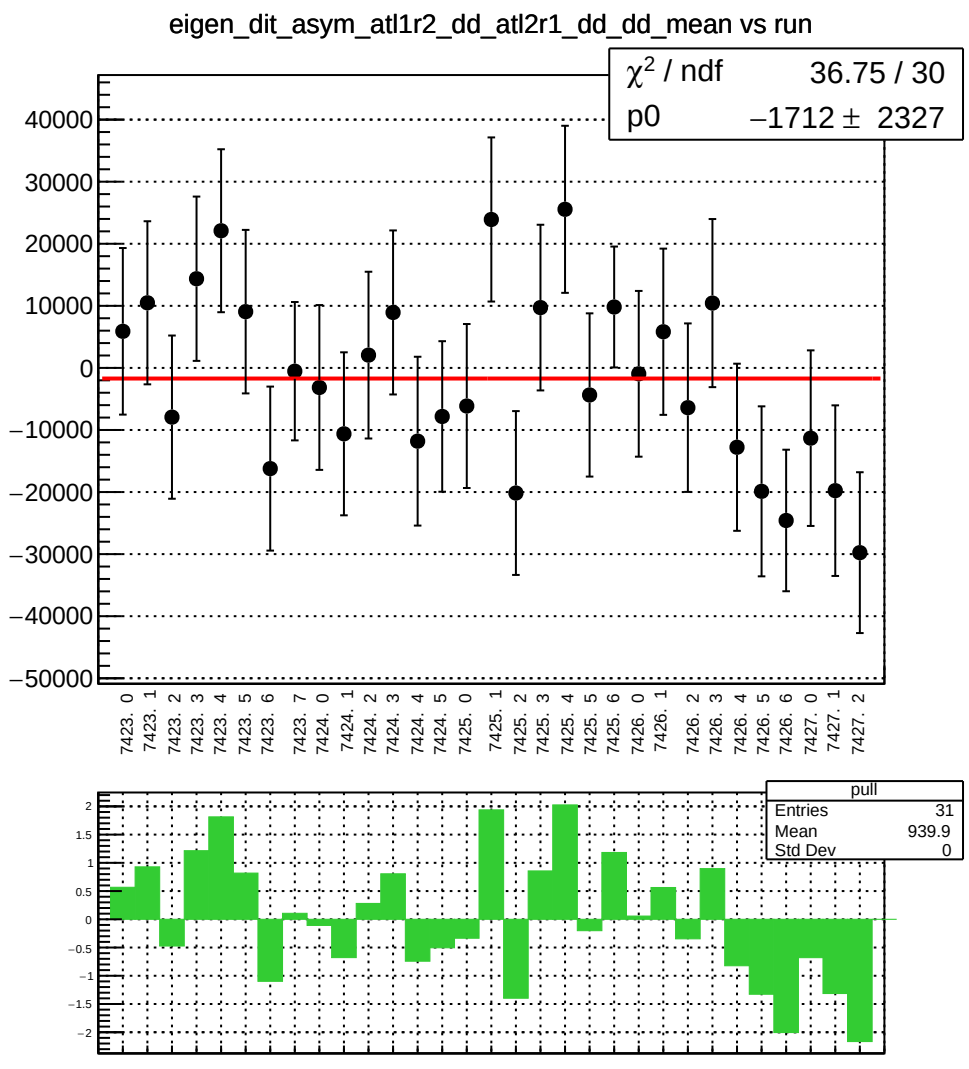

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 36.75 / 30
p0 −1712 ± 2327
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 939.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

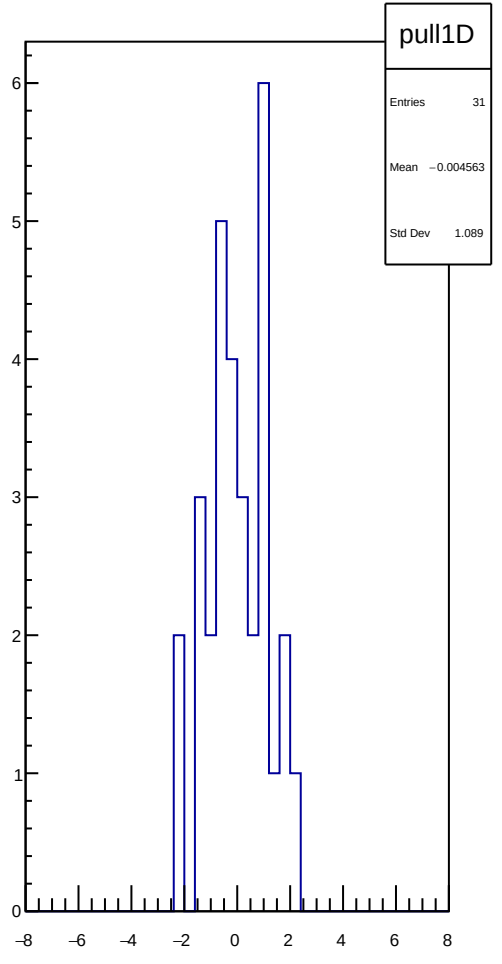

pull1D
Entries 31
Mean −0.004563
Std Dev 1.089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

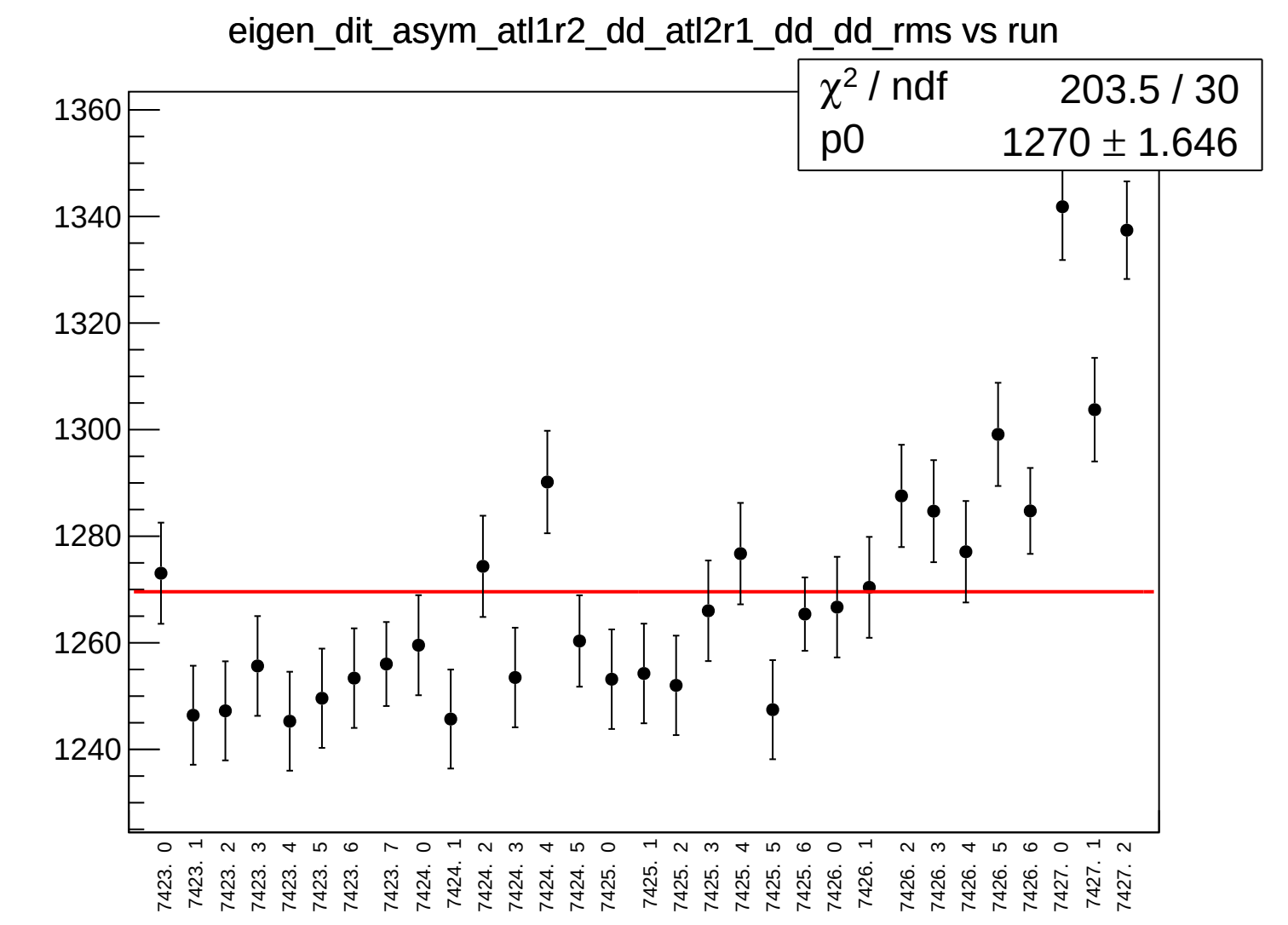

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 203.5 / 30
p0 1270 ± 1.646
1360
1340
1320
1300
1280
1260
1240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

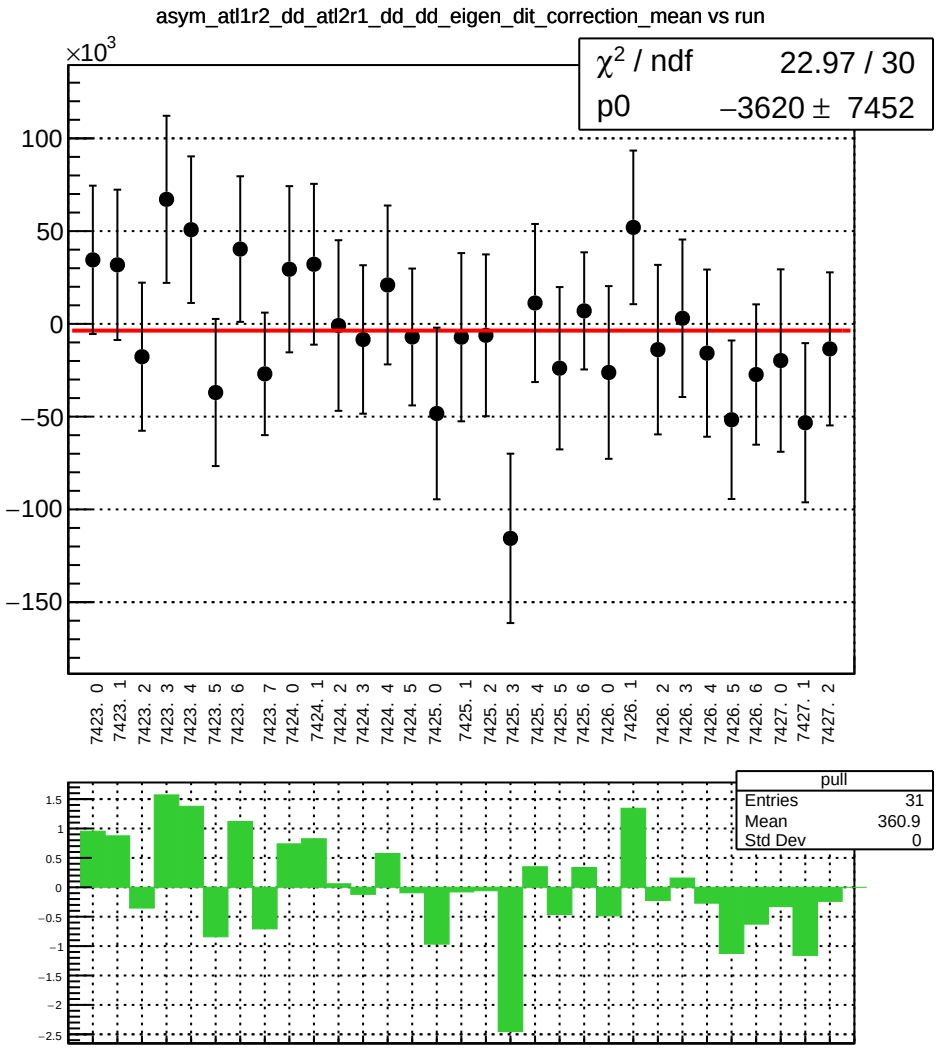

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 22.97 / 30
p0 −3620 ± 7452
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 360.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01
Std Dev 0.8607
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

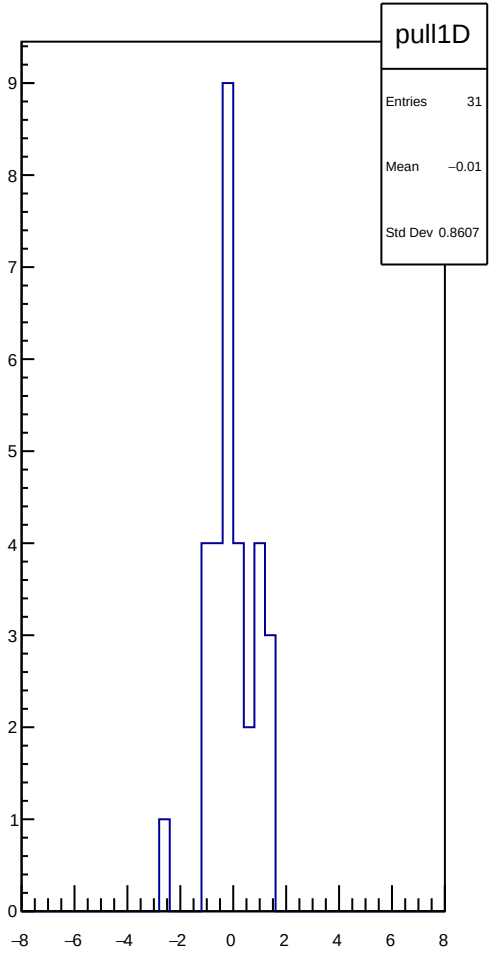

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 2078 / 30
p0 4059 ± 5.269
4600
4400
4200
4000
3800
3600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

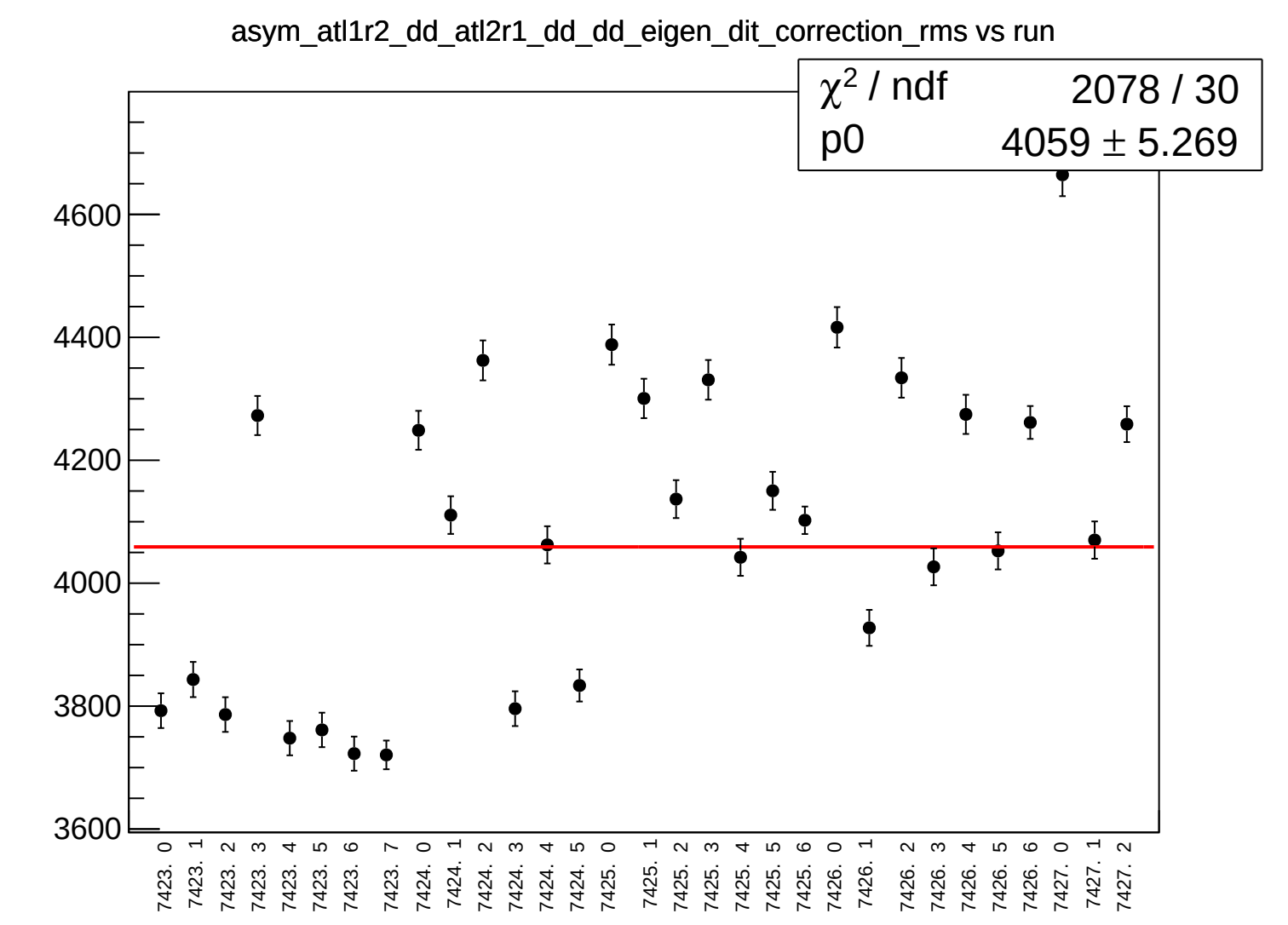

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 36.75 / 30
p0 −1712 ± 2327
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 939.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

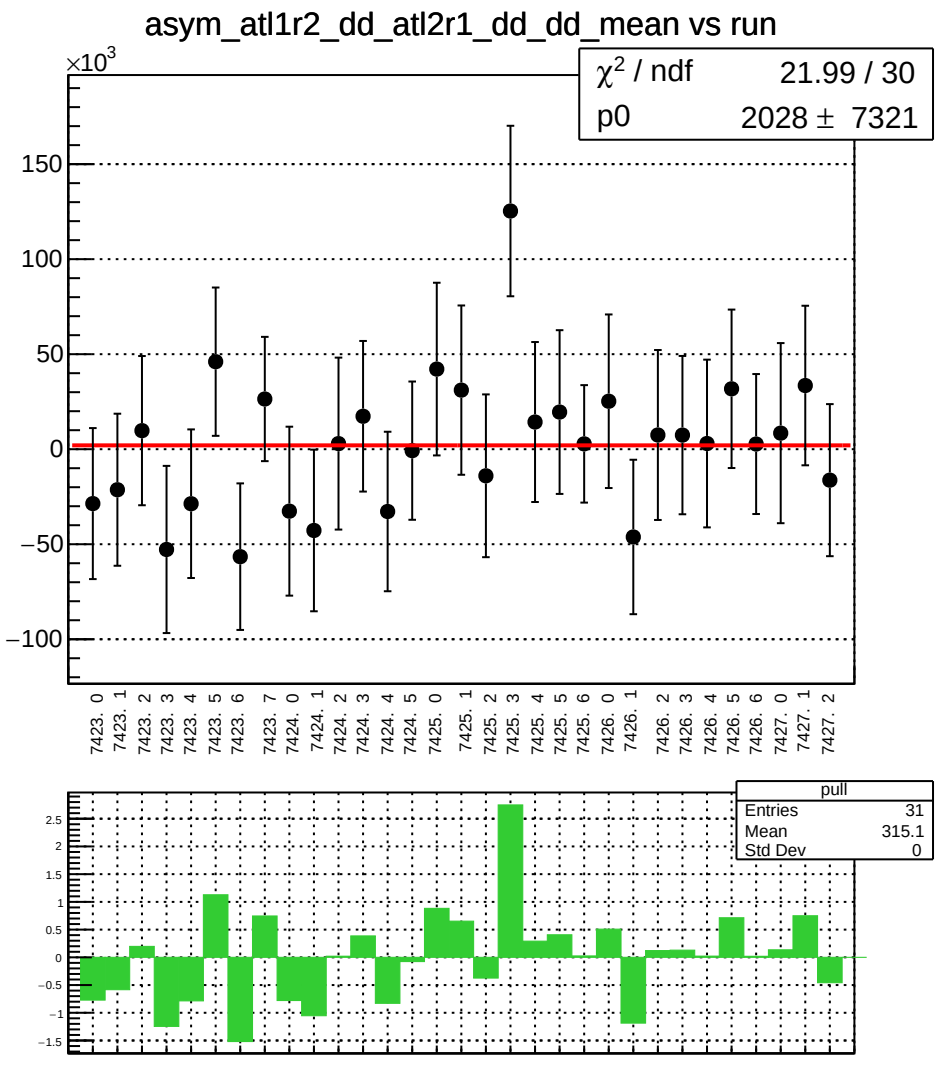

pull1D
Entries 31
Mean −0.004563
Std Dev 1.089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

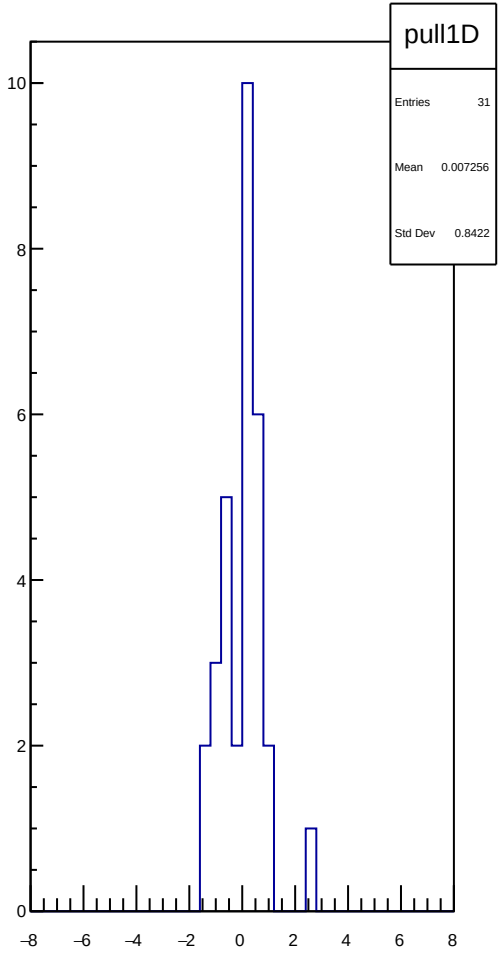

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 203.5 / 30
p0 1270 ± 1.646
1360
1340
1320
1300
1280
1260
1240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

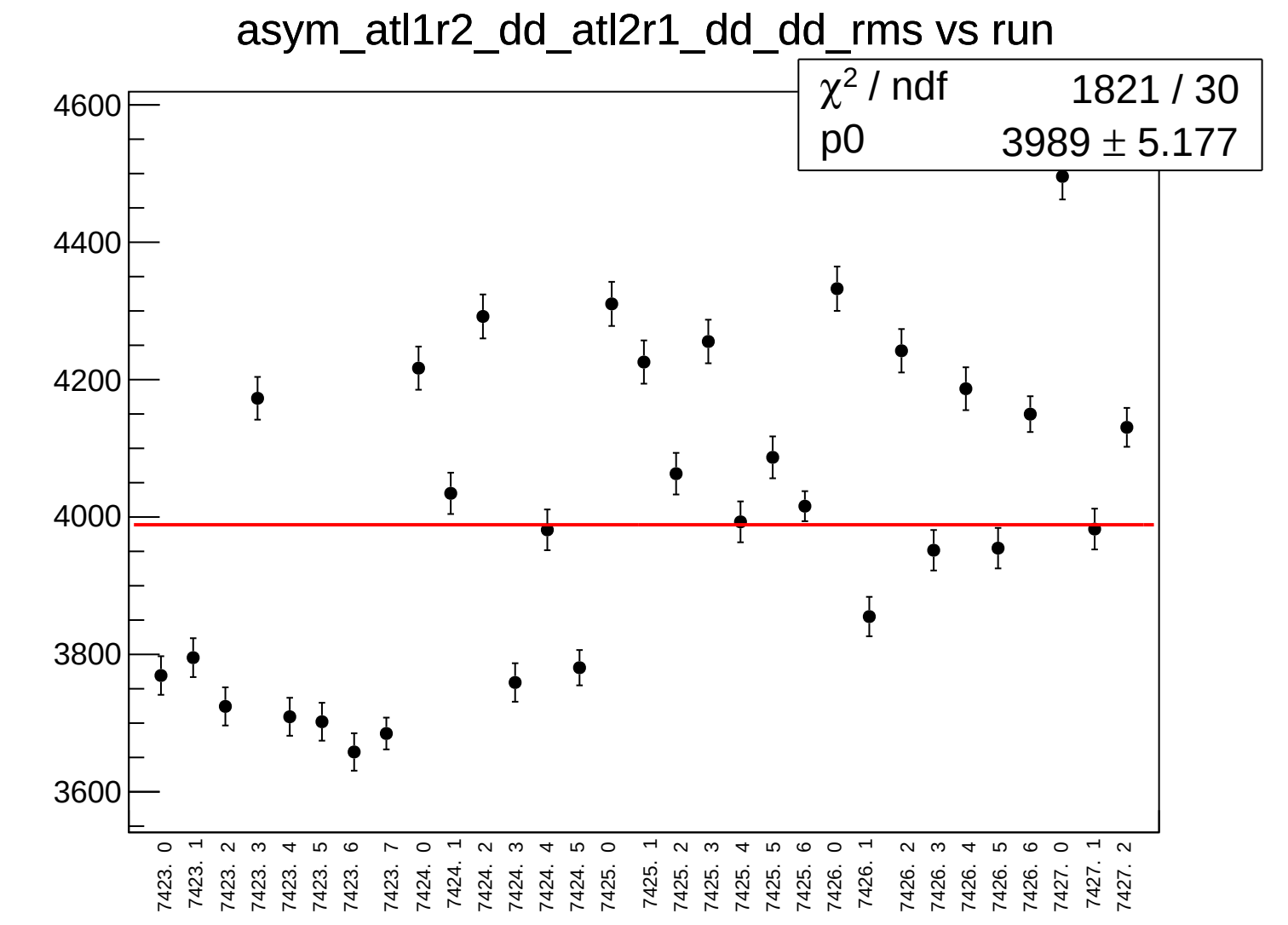

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.97 / 30
p0 −3620 ± 7452
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 360.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

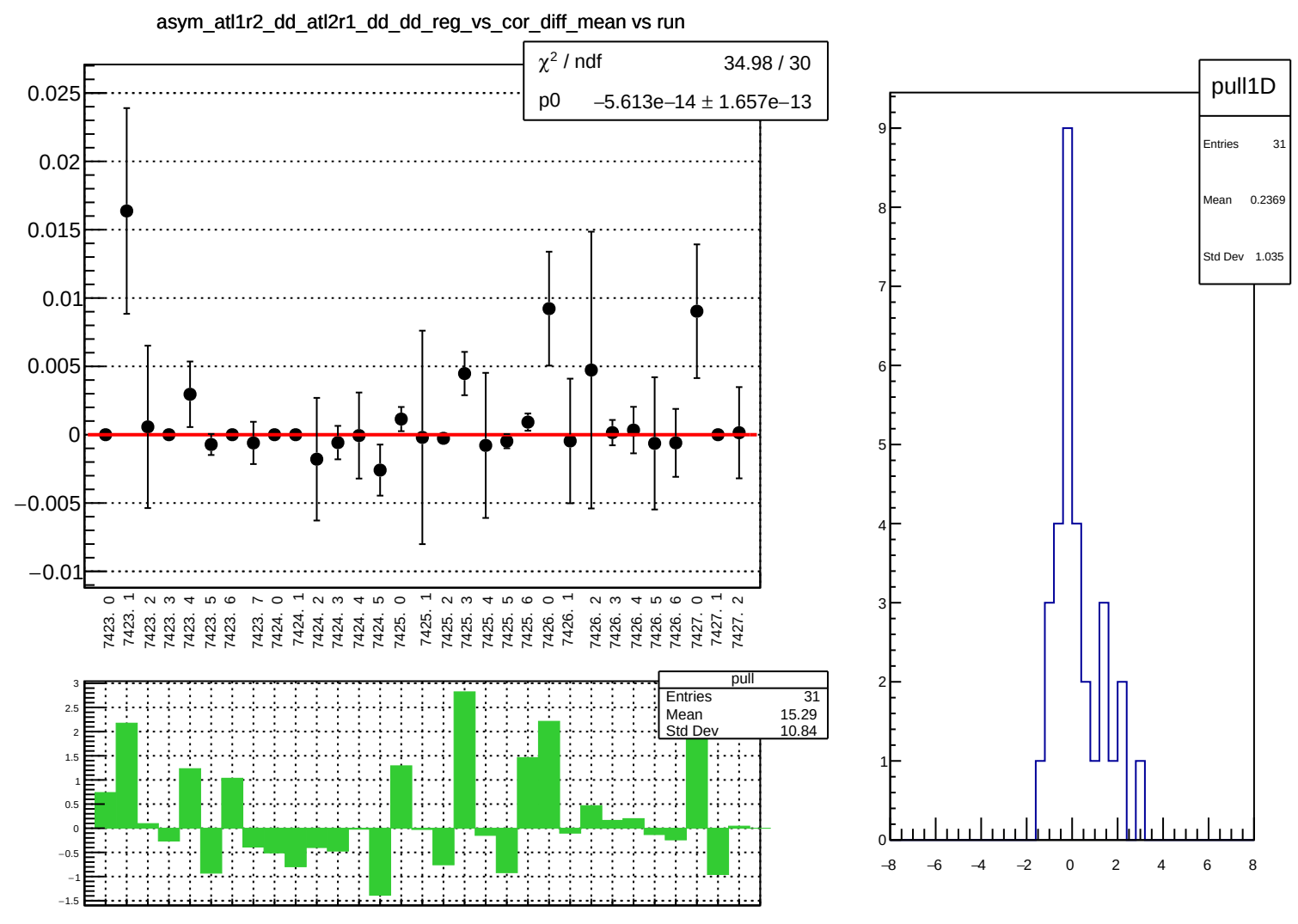

pull1D
Entries 31
Mean −0.01
Std Dev 0.8607
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

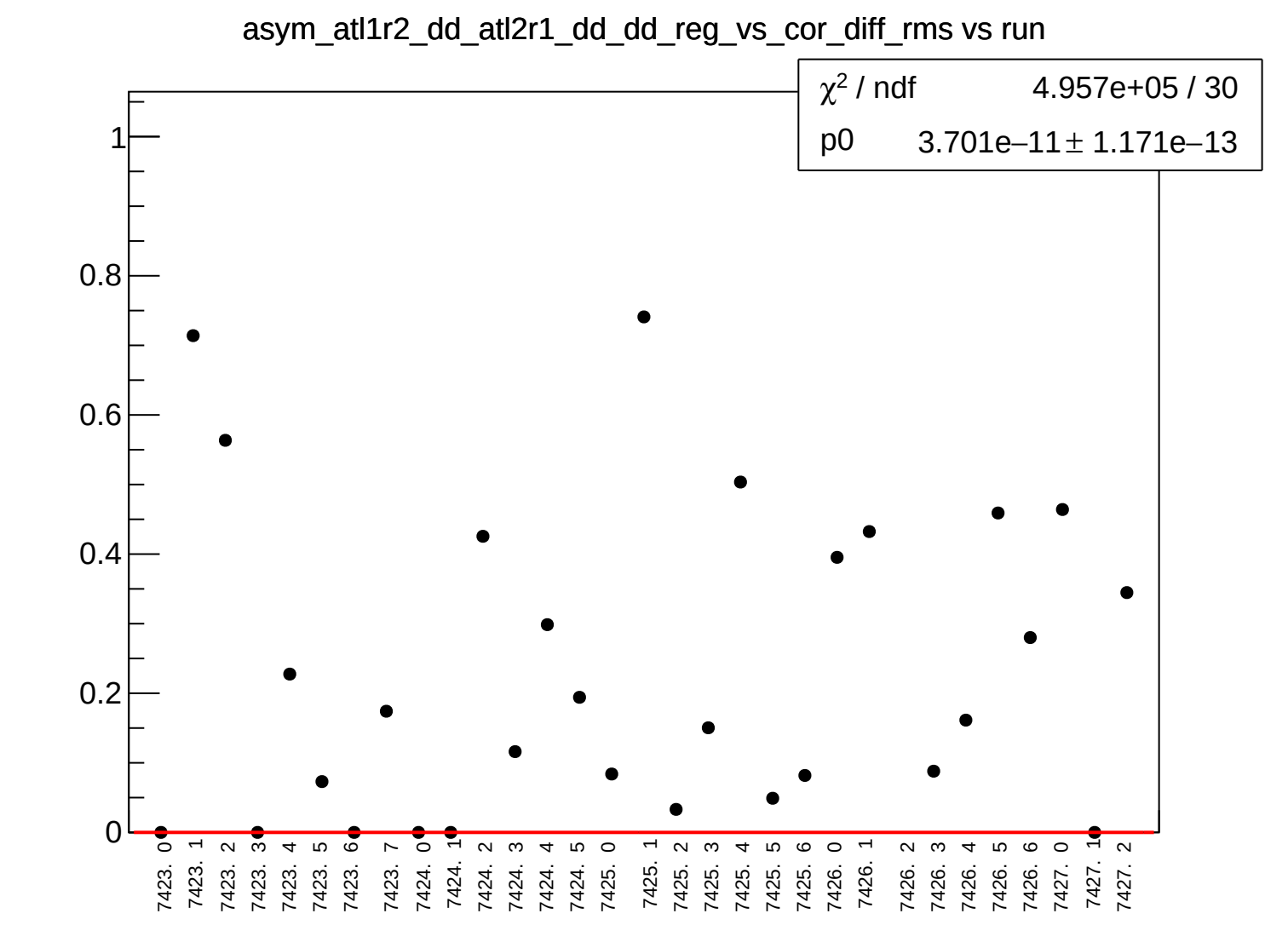

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2078 / 30
p0 4059 ± 5.269
4600
4400
4200
4000
3800
3600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

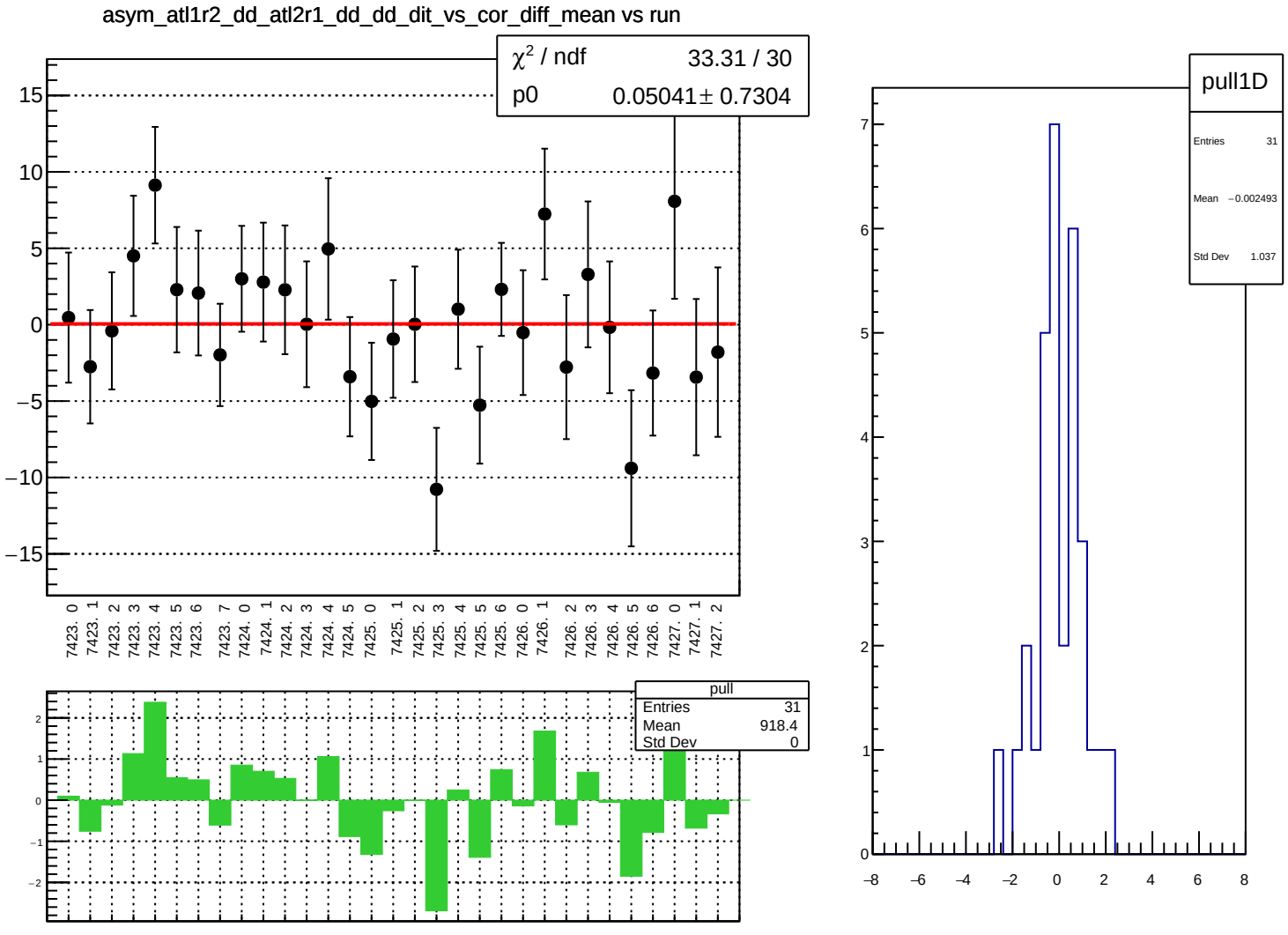

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ^2 / ndf 21.99 / 30
p0 2028 ± 7321
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 315.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

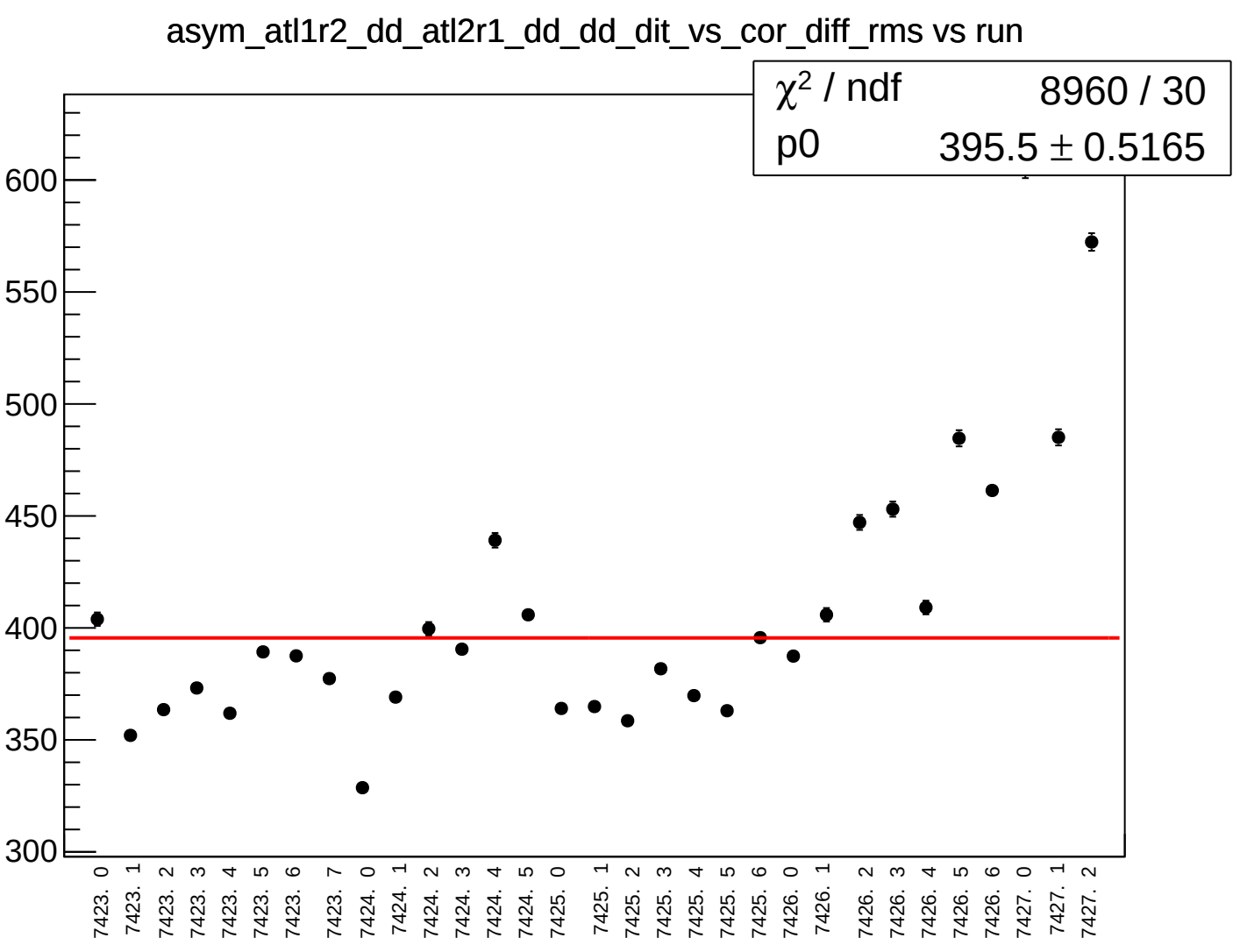

pull1D
Entries 31
Mean 0.007256
Std Dev 0.8422
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

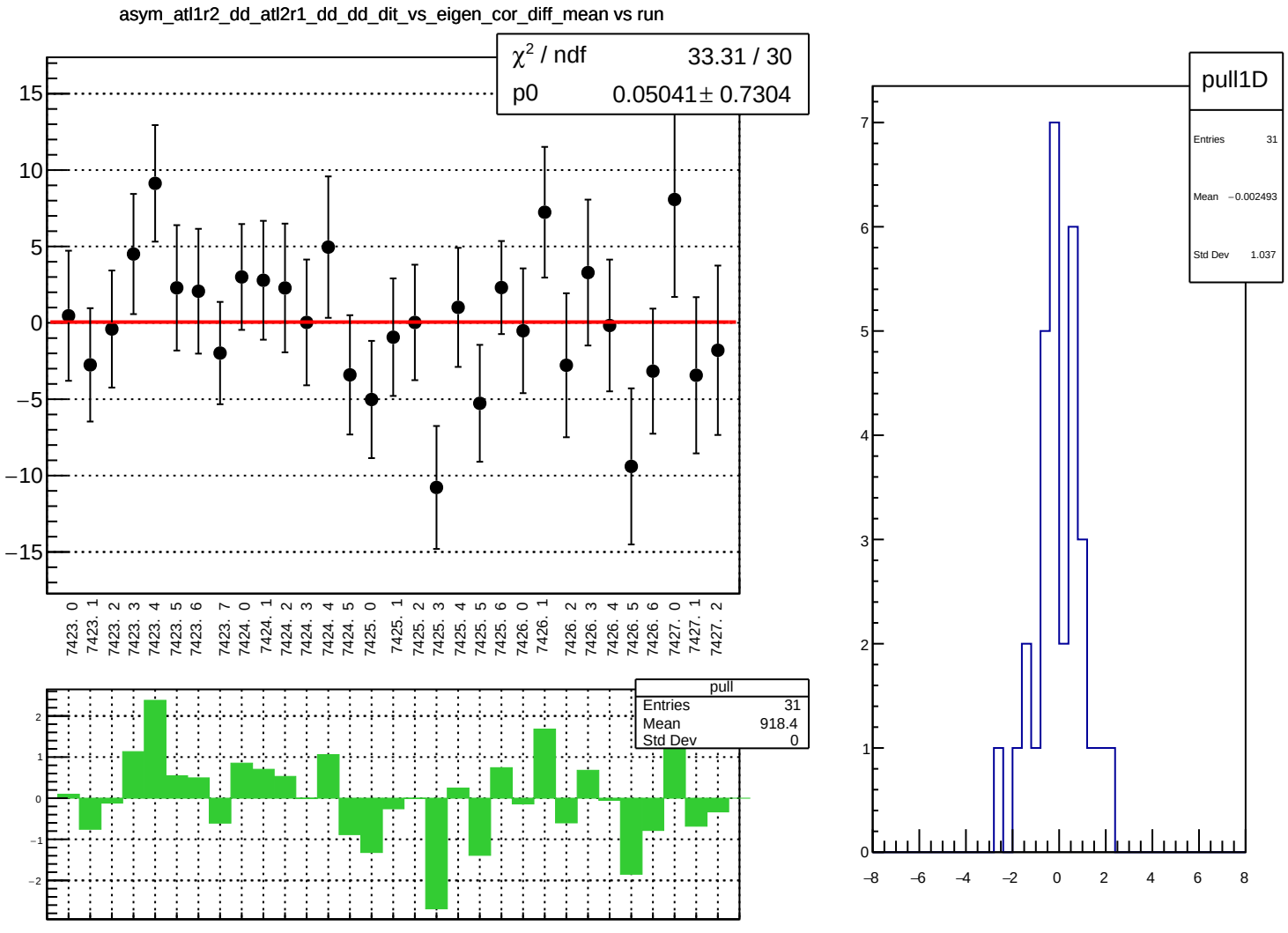

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1821 / 30
p0 3989 ± 5.177
4600
4400
4200
4000
3800
3600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

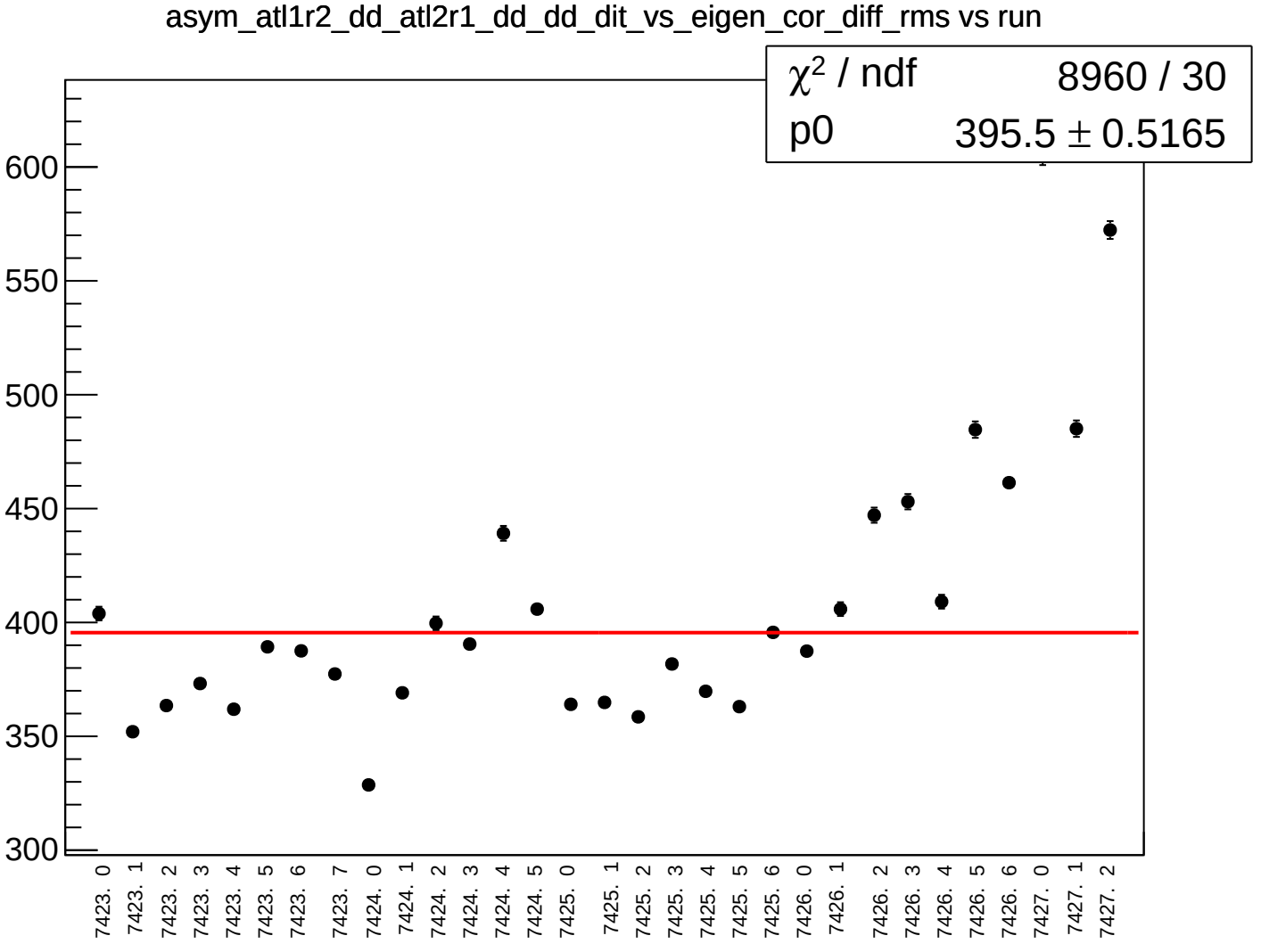

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 34.98 / 30
p0 −5.613e−14 ± 1.657e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.29
Std Dev 10.84
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.2369
Std Dev 1.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

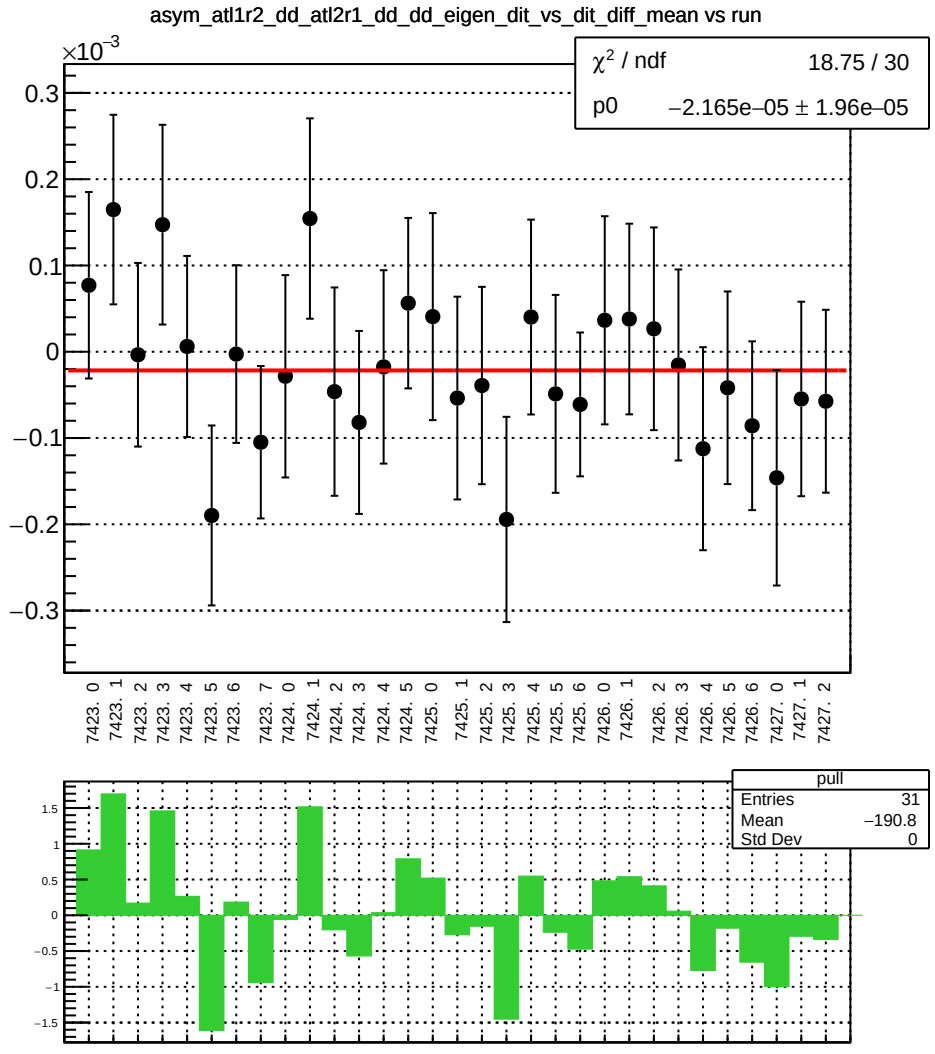

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.957e+05 / 30
p0 3.701e−11 ± 1.171e−13
1
0.8
0.6
0.4
0.2
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

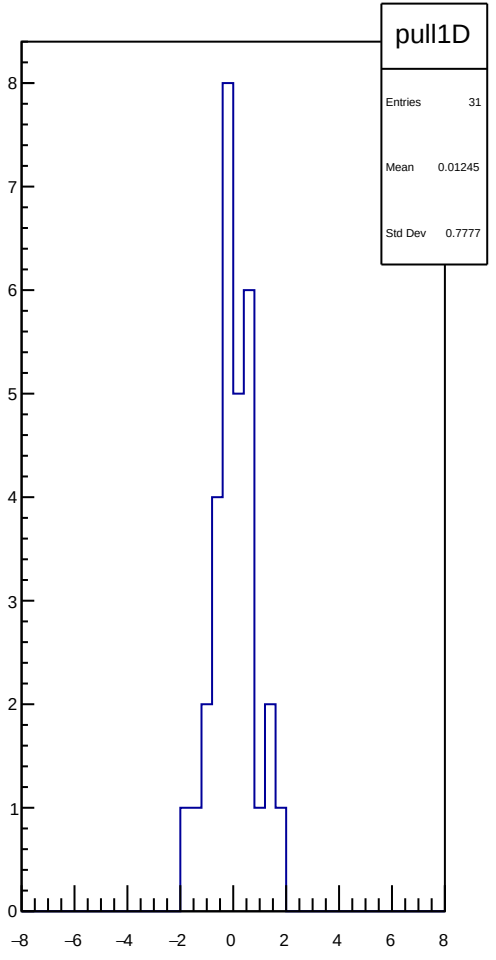

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05041 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002493
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

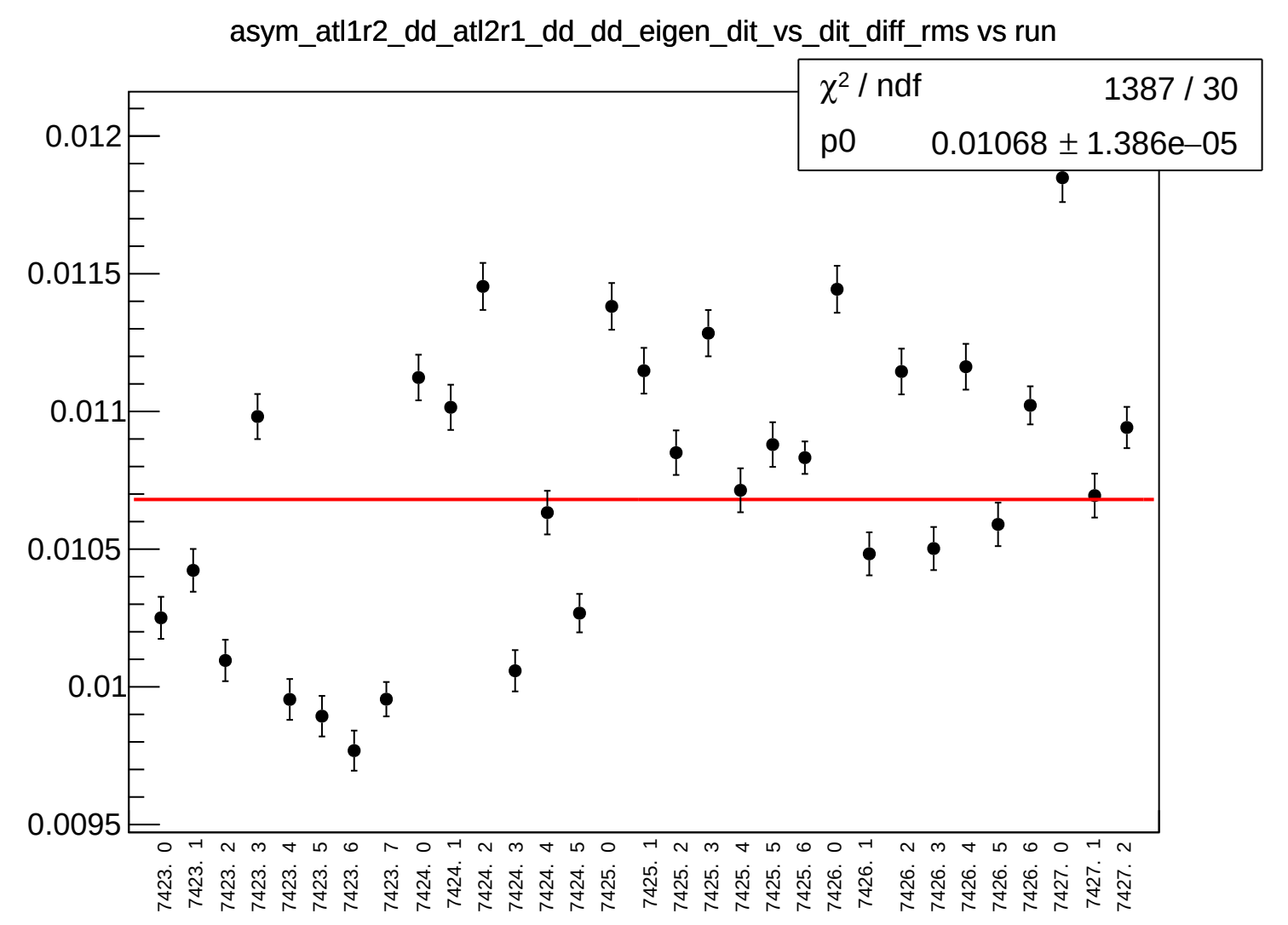

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

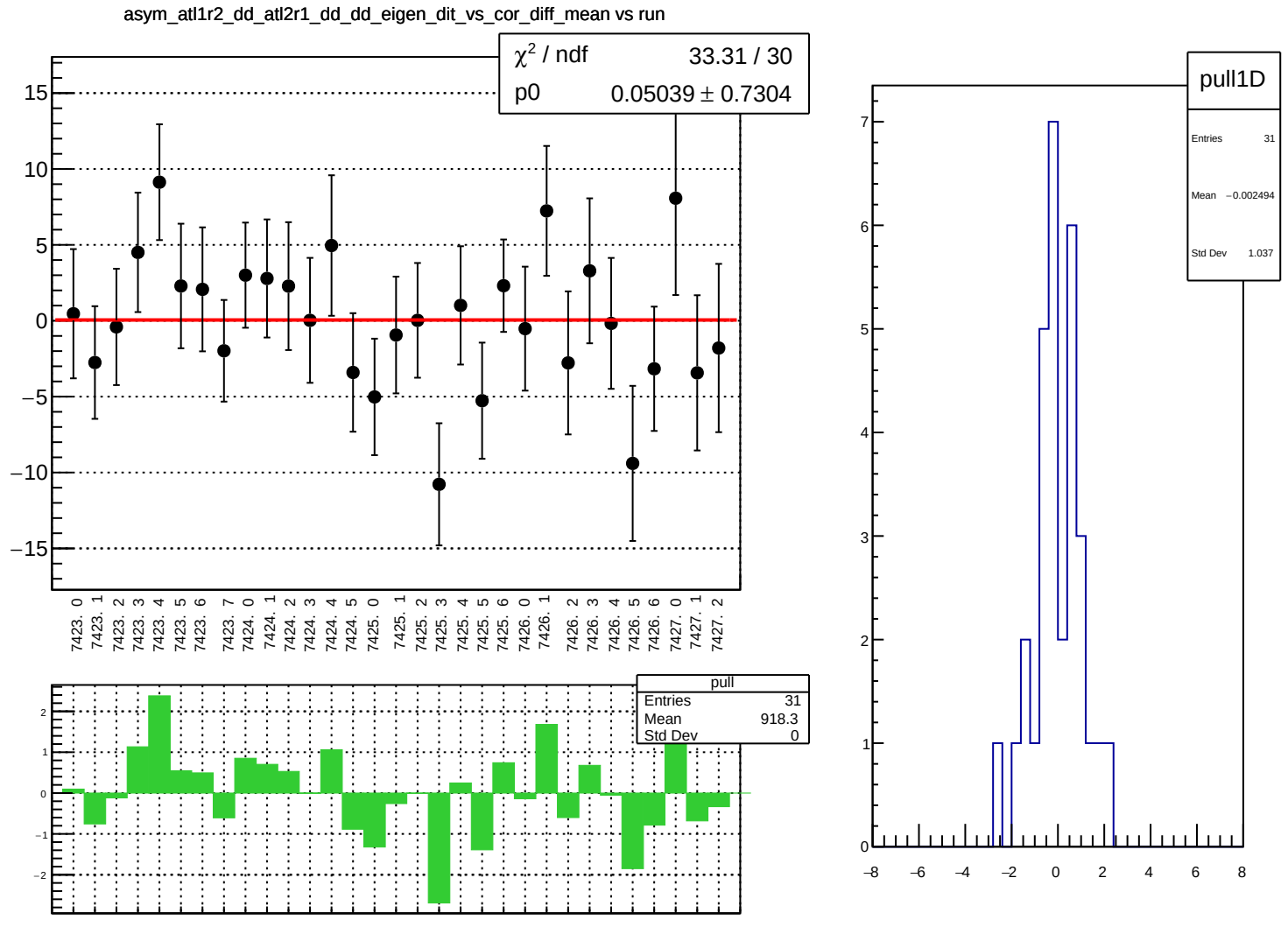

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05041 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002493
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

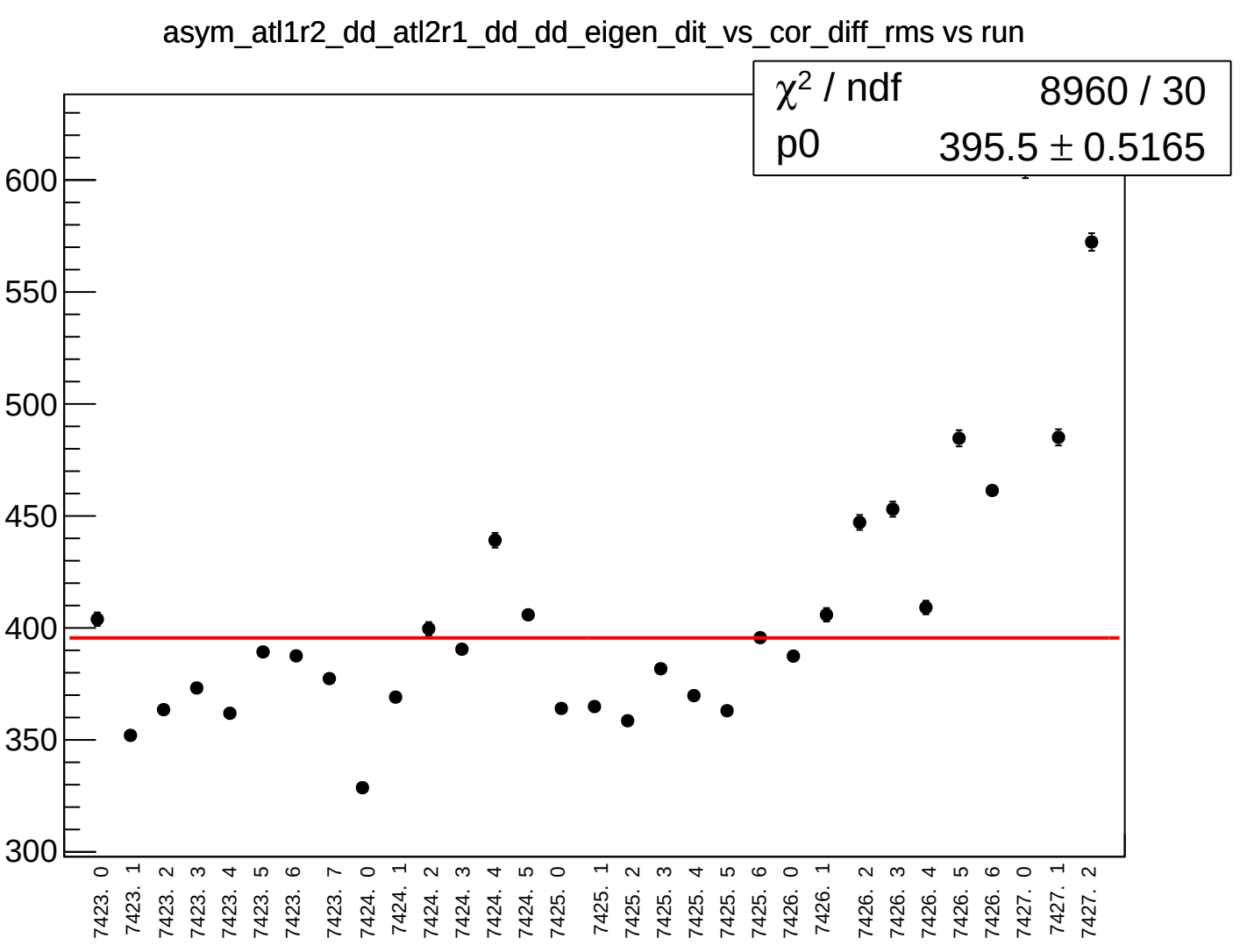

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

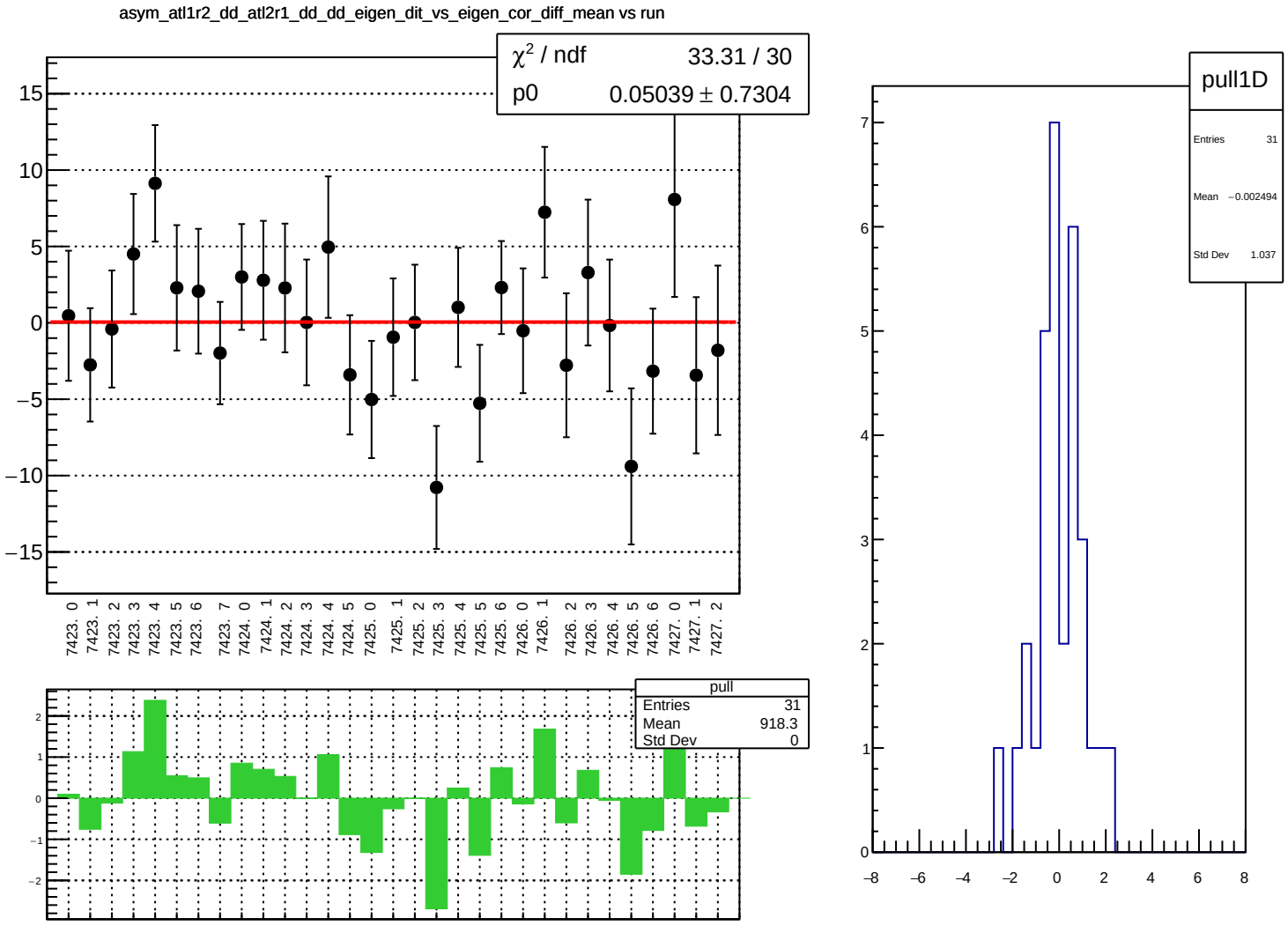

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.75 / 30
p0 −2.165e−05 ± 1.96e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −190.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

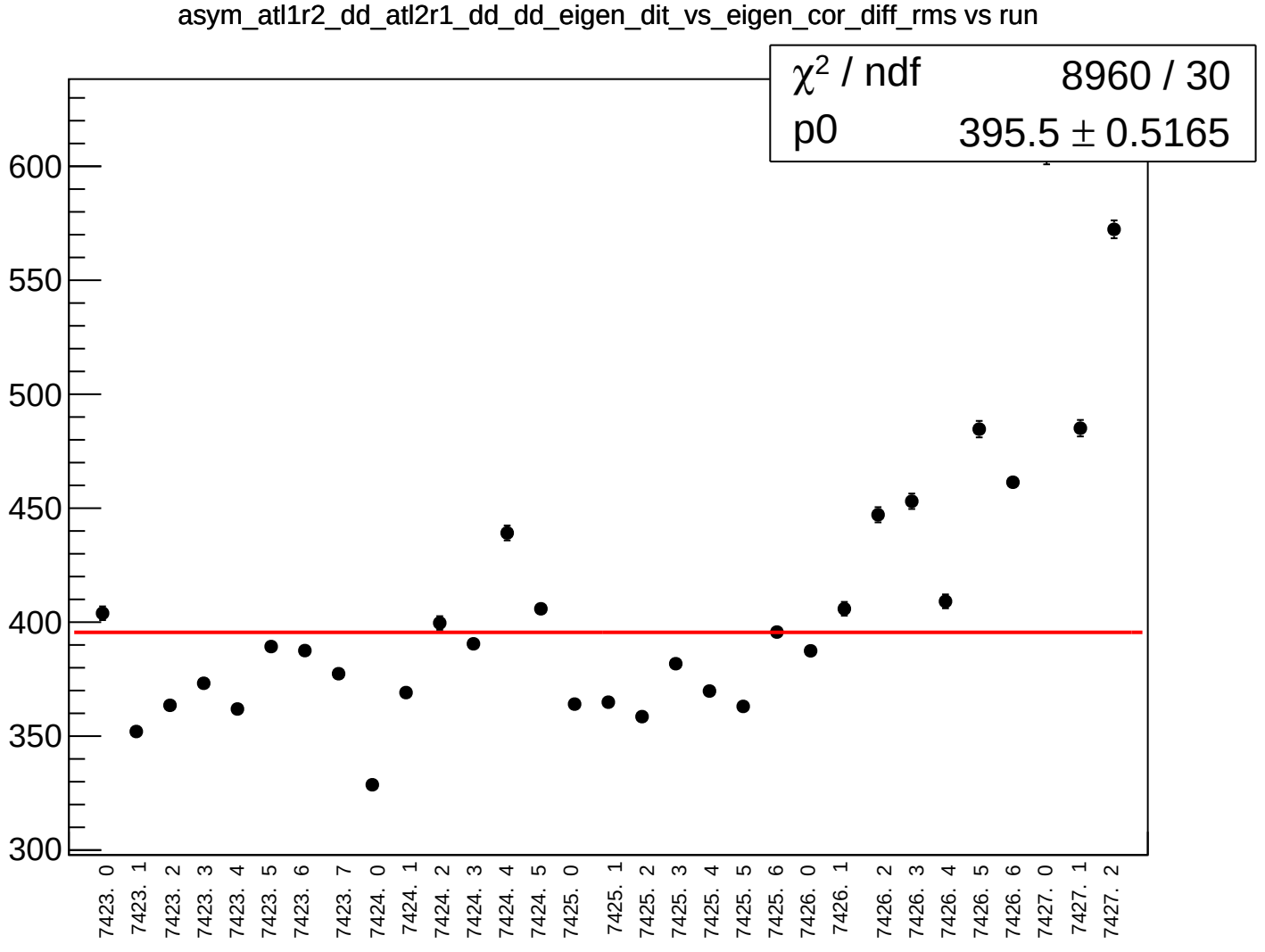

pull1D
Entries 31
Mean 0.01245
Std Dev 0.7777
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

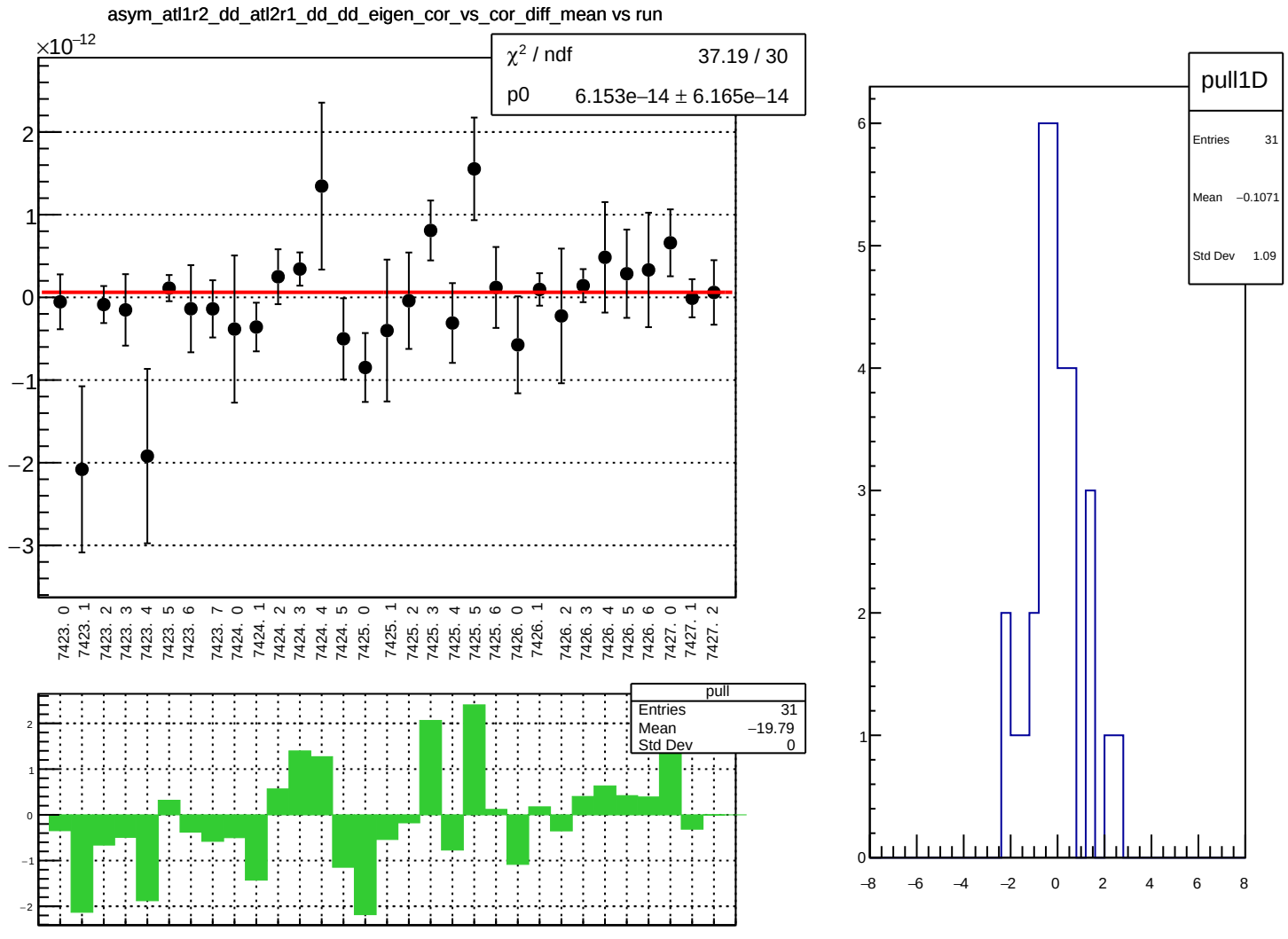

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1387 / 30
p0 0.01068 ± 1.386e−05
0.012
0.0115
0.011
0.0105
0.01
0.0095
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

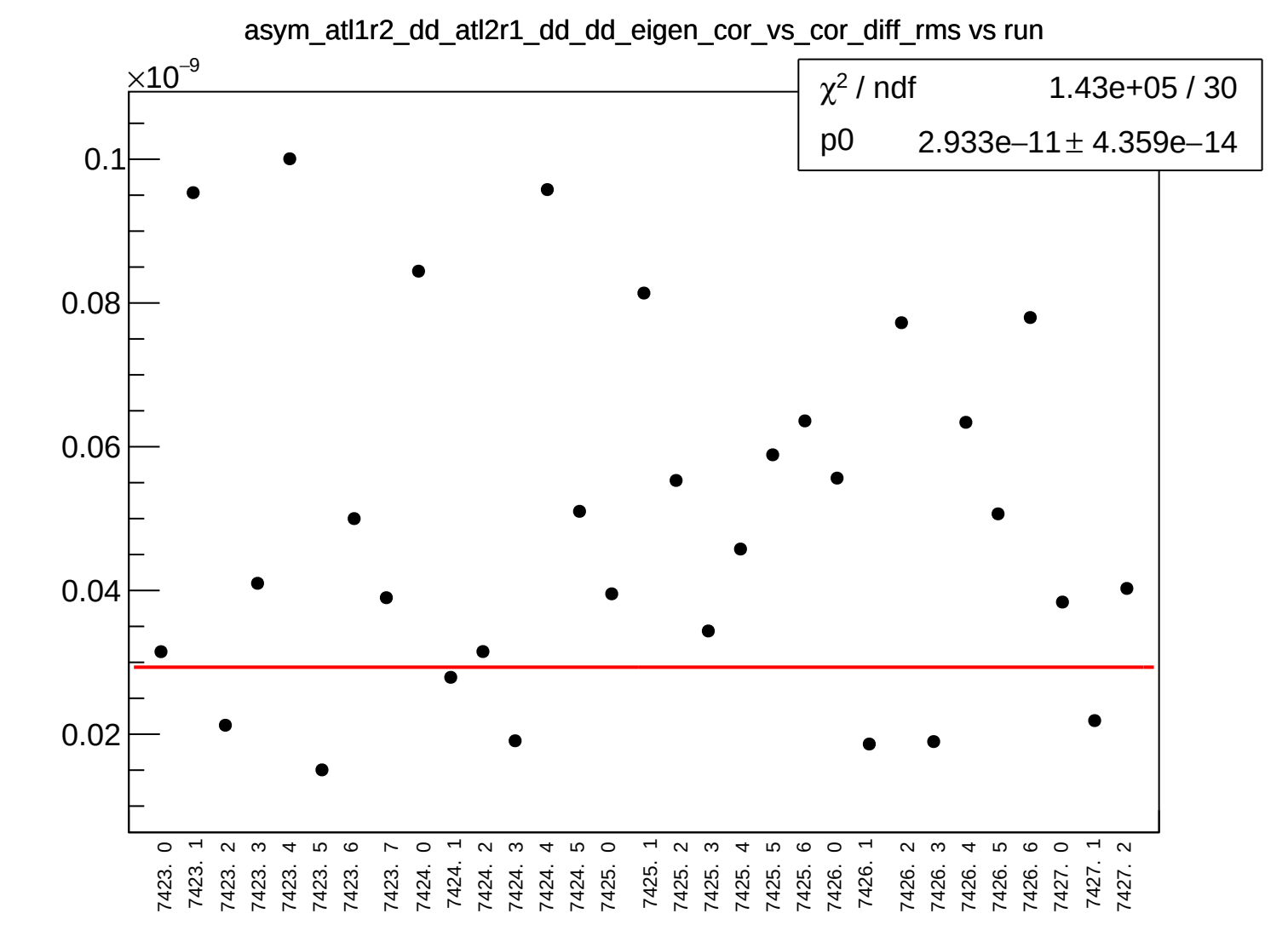

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05039 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002494
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

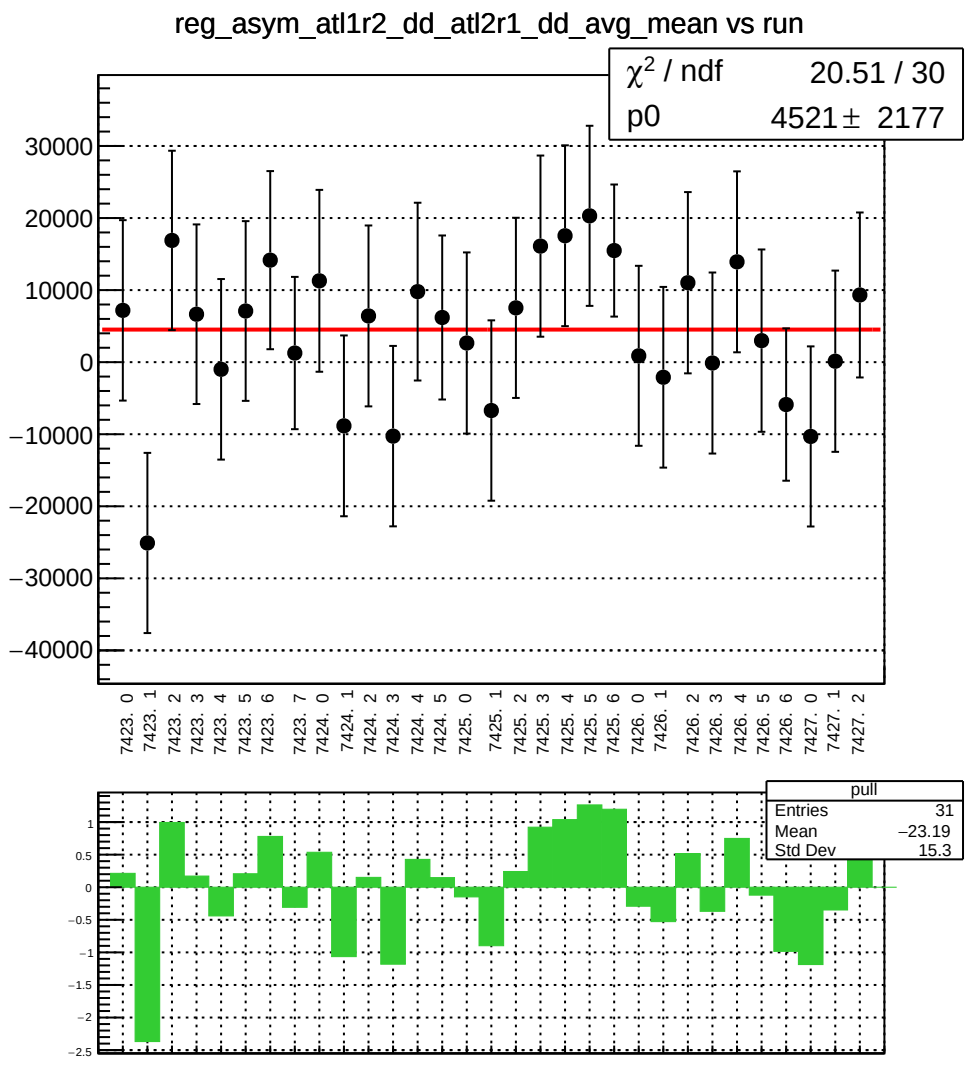

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

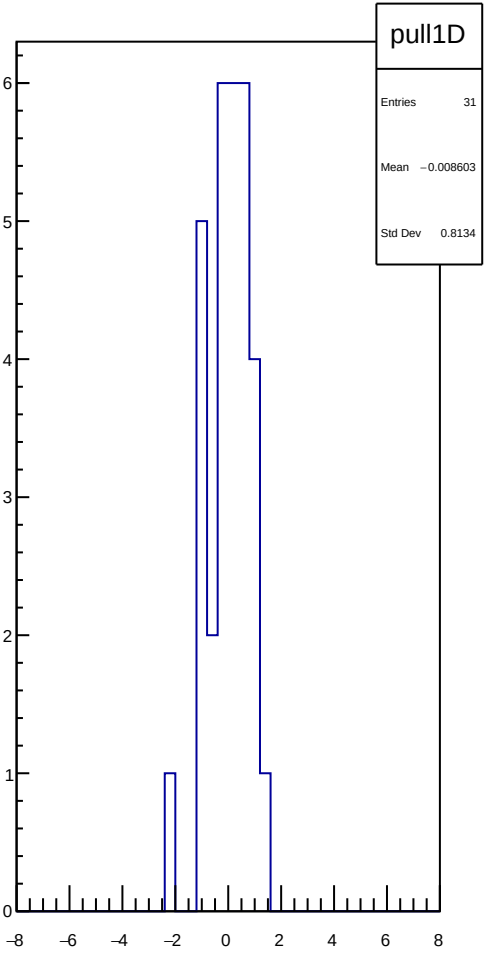

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.31 / 30
p0 0.05039 ± 0.7304
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 918.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.002494
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

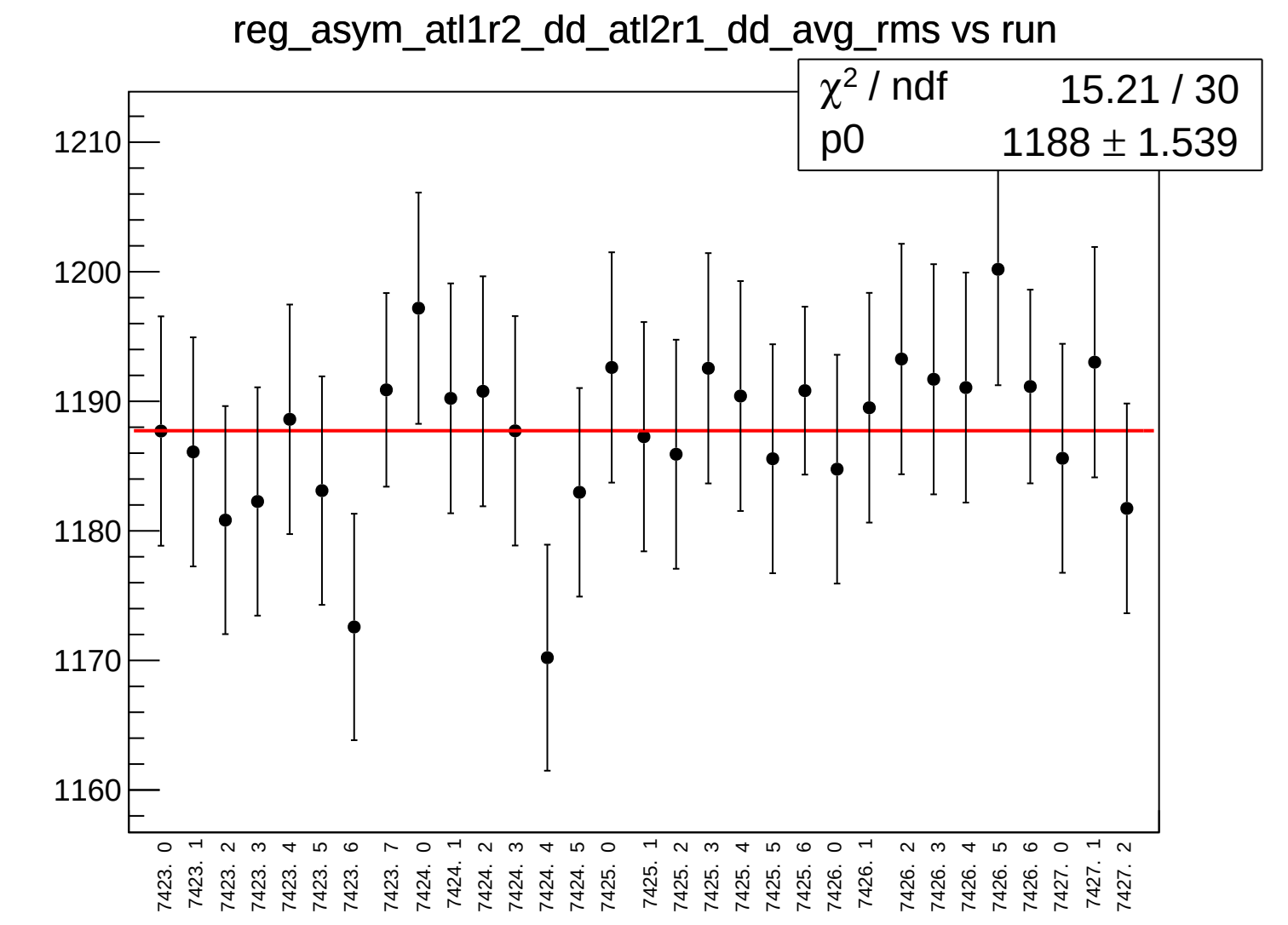

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8960 / 30
p0 395.5 ± 0.5165
600
550
500
450
400
350
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

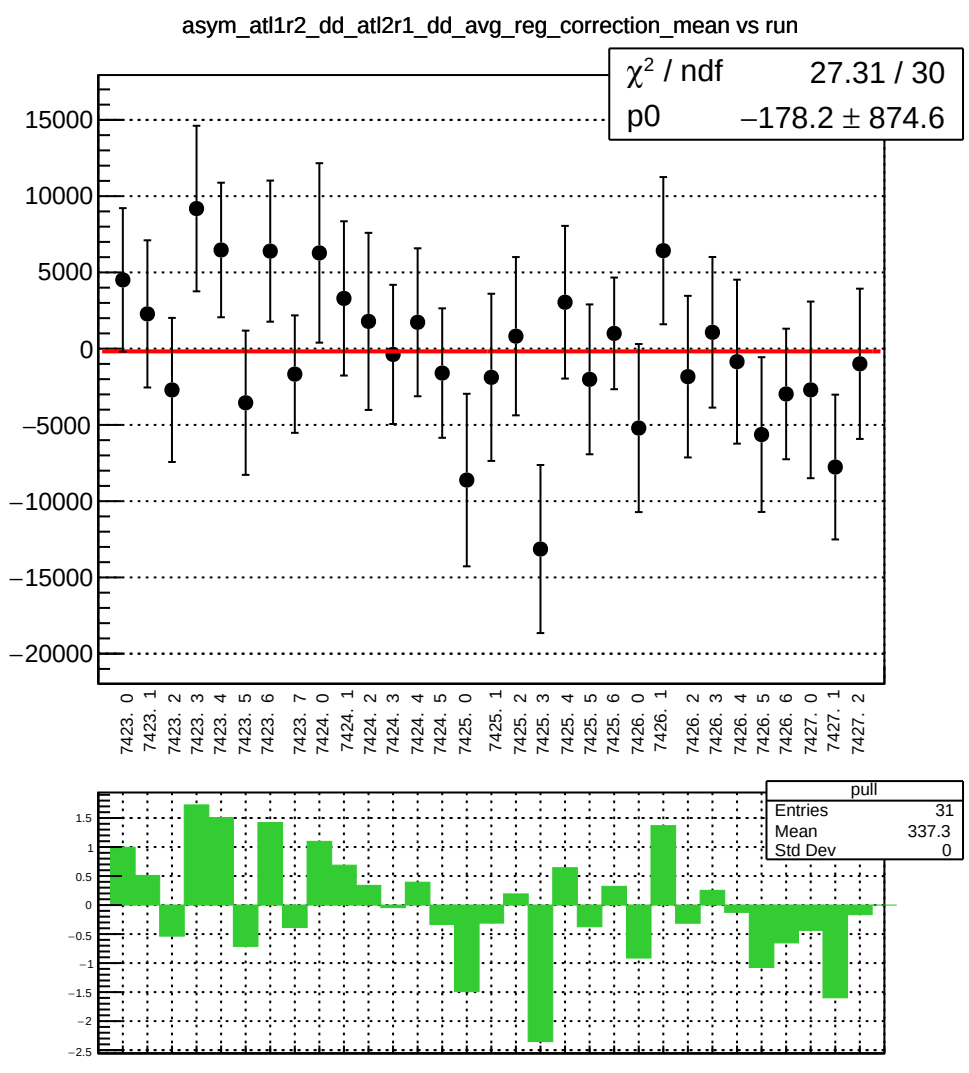

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 37.19 / 30
p0 6.153e−14 ± 6.165e−14
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −19.79
Std Dev 0
pull1D
Entries 31
Mean −0.1071
Std Dev 1.09

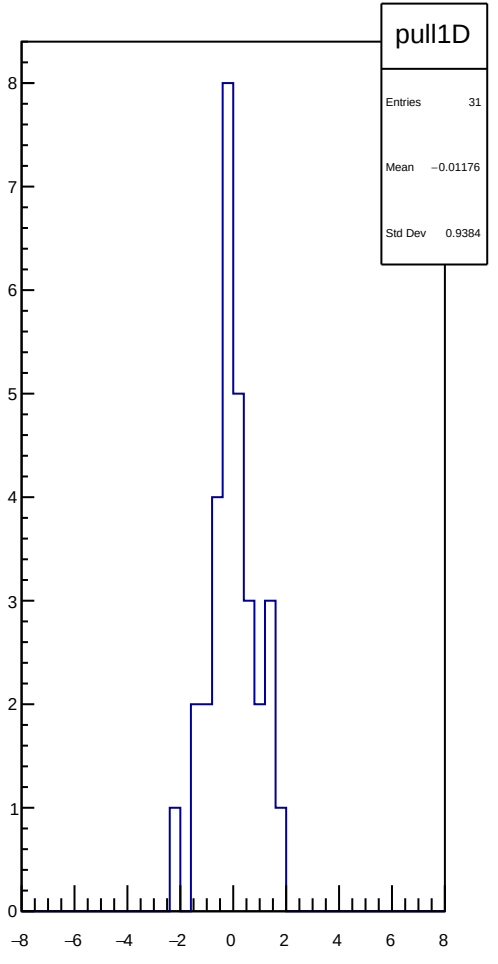

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.43e+05 / 30
p0 2.933e−11 ± 4.359e−14
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

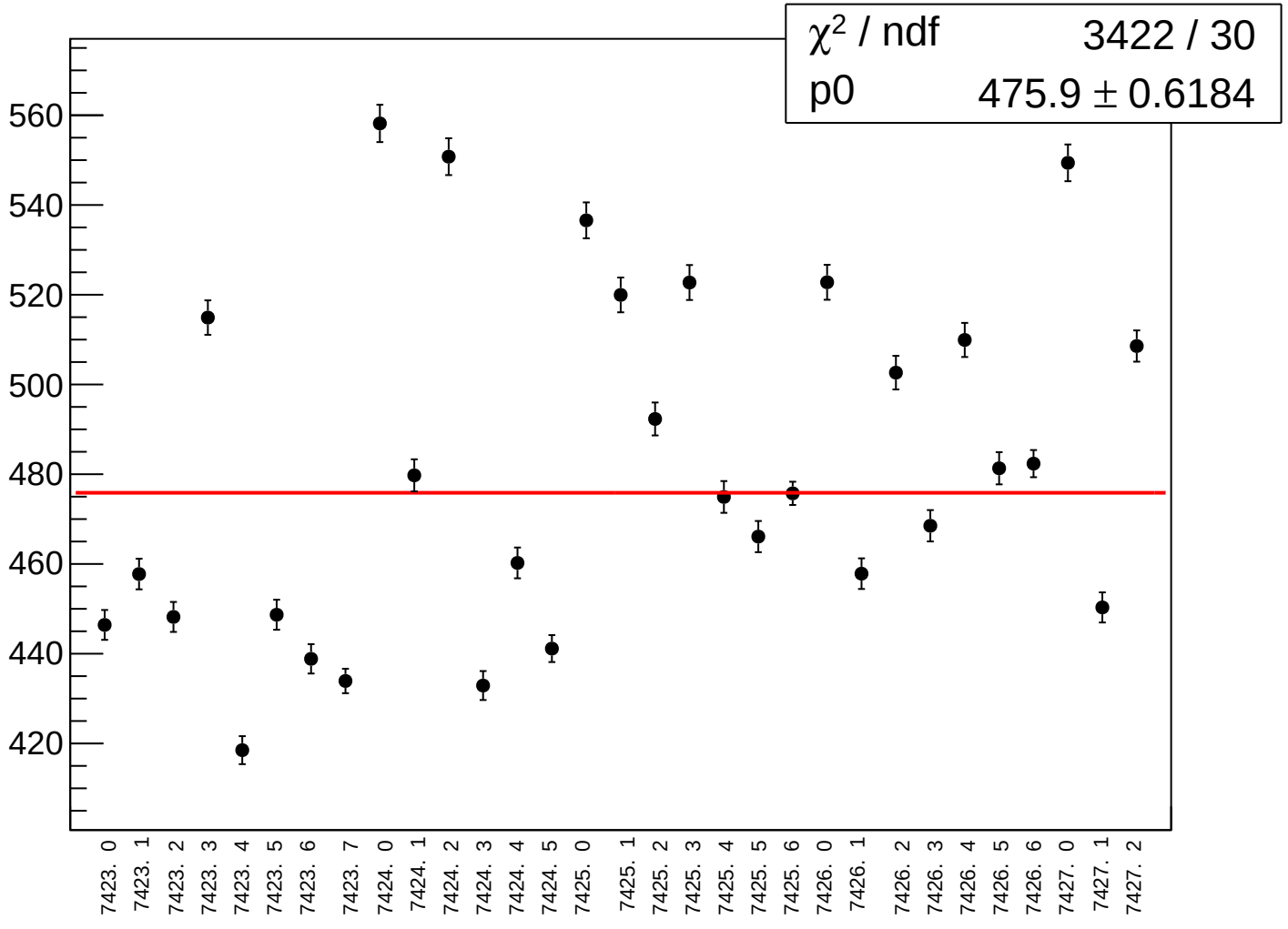

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 20.51 / 30
p0 4521 ± 2177
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −23.19
Std Dev 15.3
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

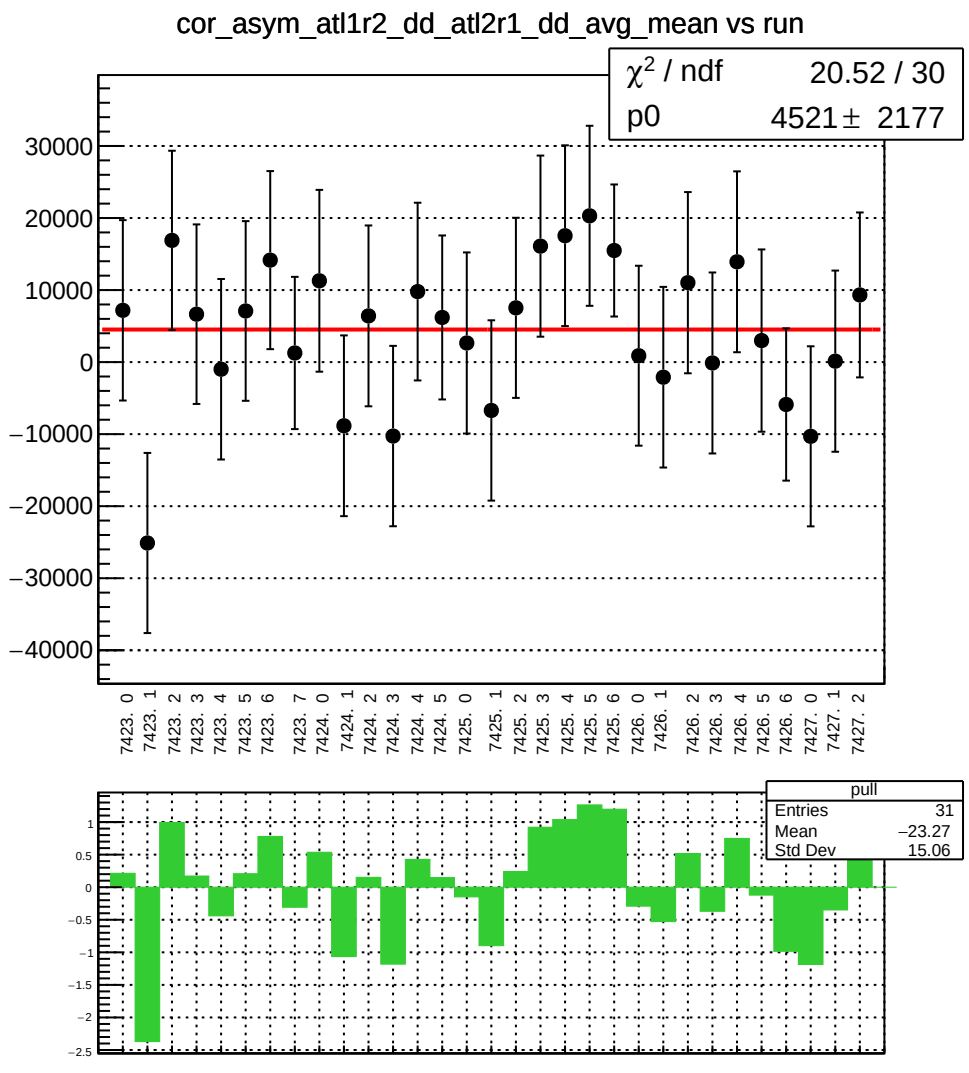

pull1D
Entries 31
Mean −0.008603
Std Dev 0.8134
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

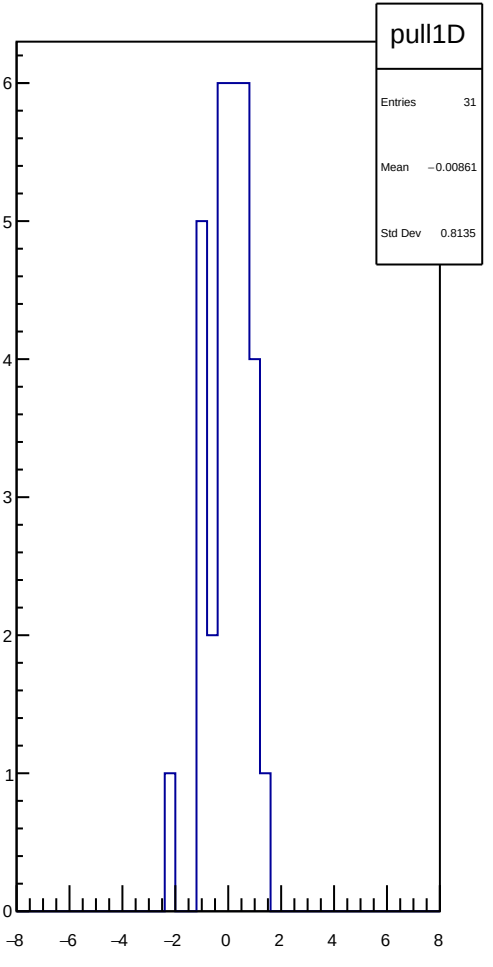

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 15.21 / 30
p0 1188 ± 1.539
1210
1200
1190
1180
1170
1160
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

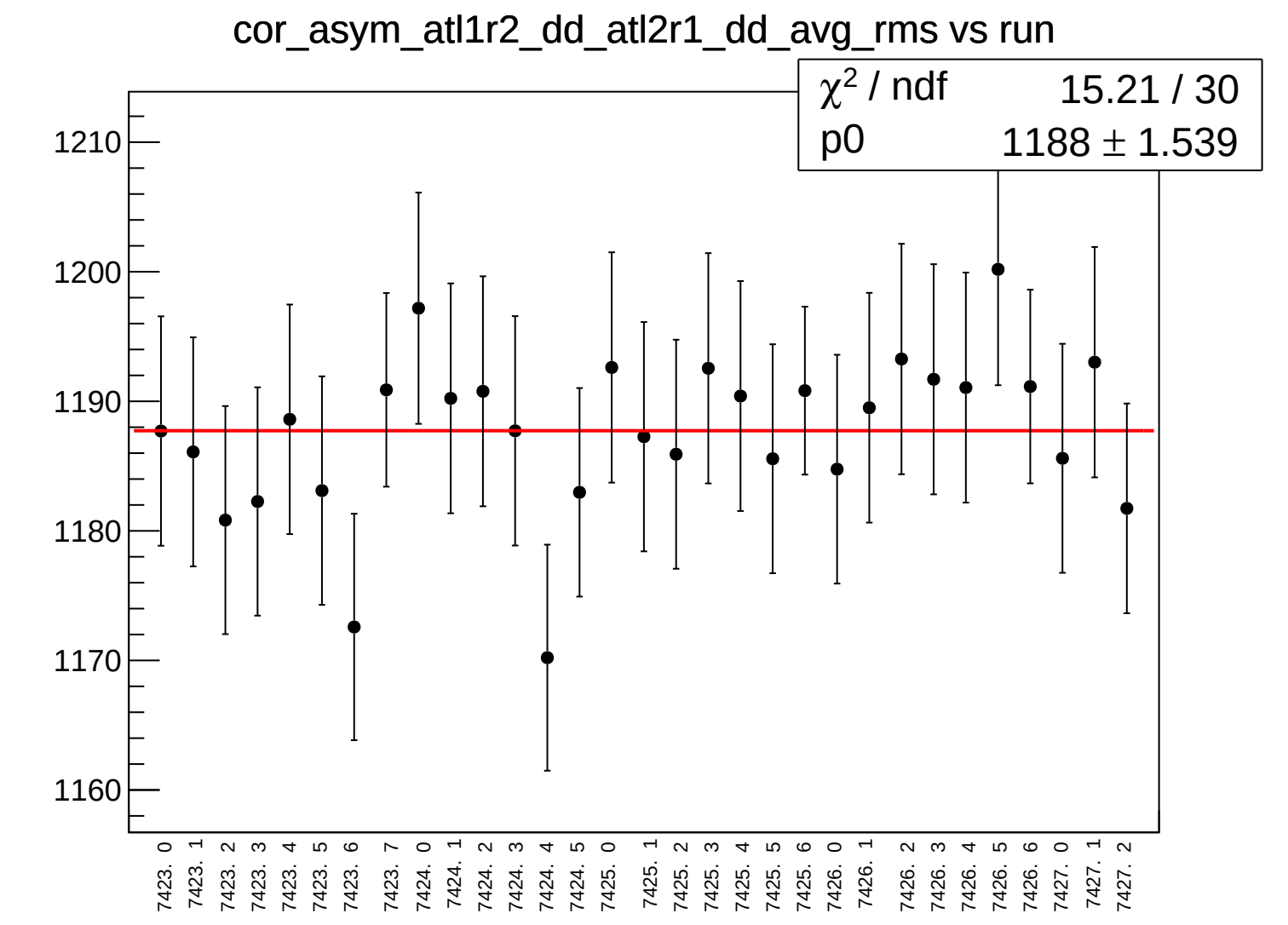

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 27.31 / 30
p0 −178.2 ± 874.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 337.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

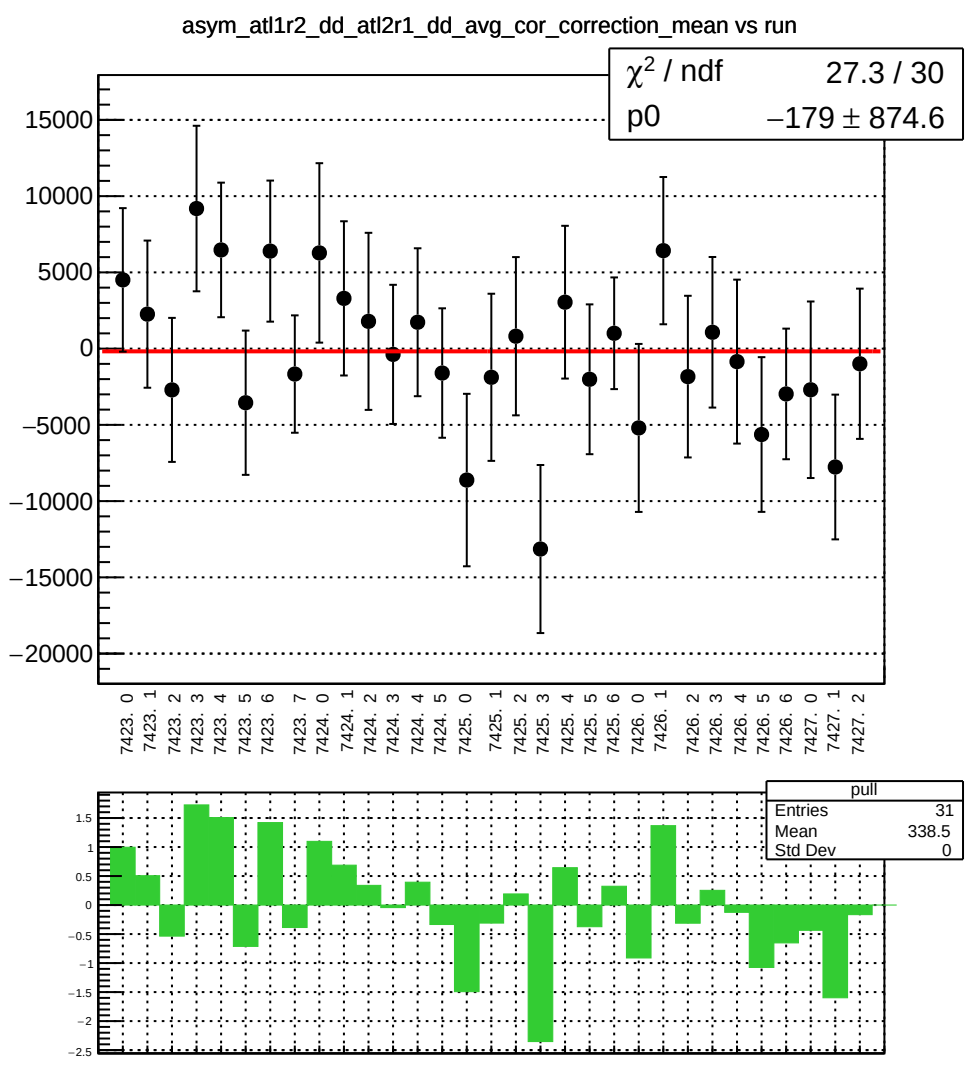

pull1D
Entries 31
Mean −0.01176
Std Dev 0.9384
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

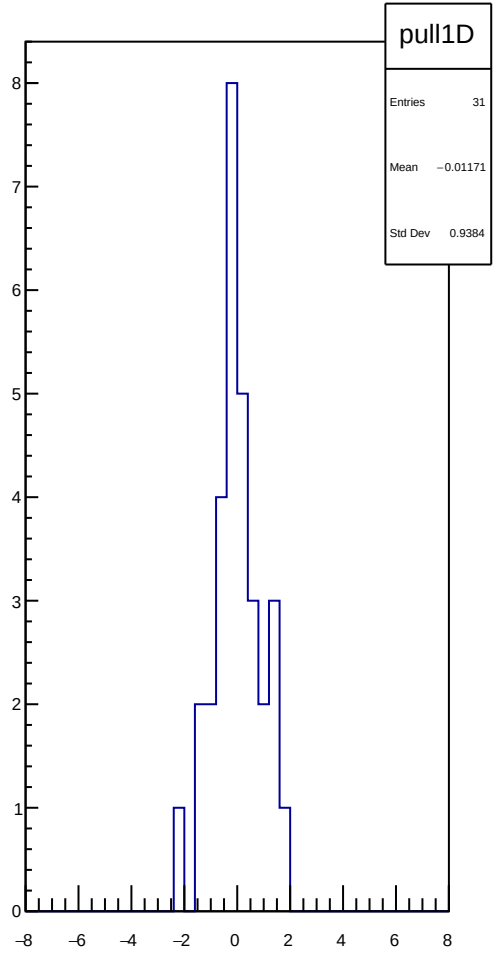

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 3422 / 30
p0 475.9 ± 0.6184
560
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

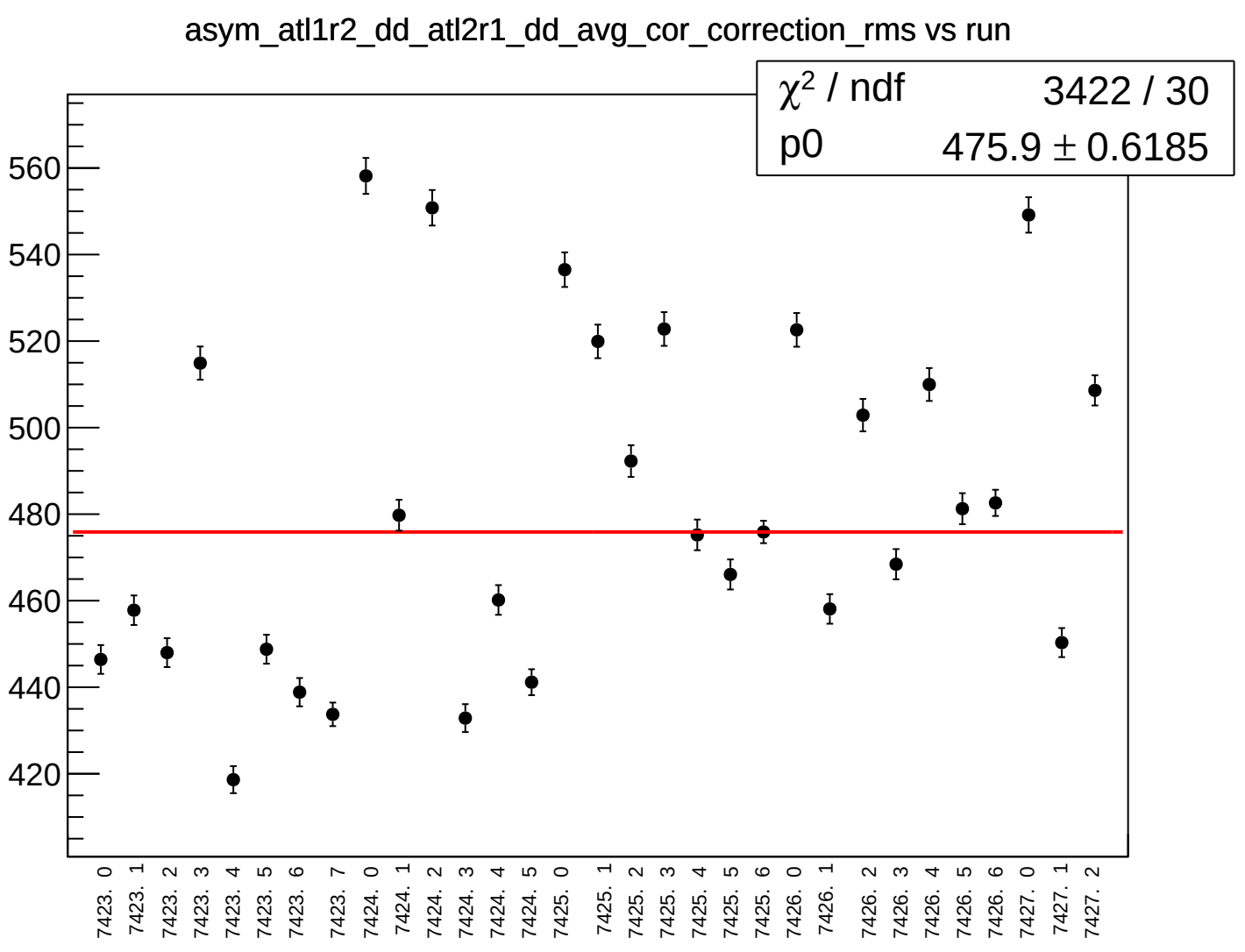

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 20.52 / 30
p0 4521 ± 2177
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −23.27
Std Dev 15.06
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

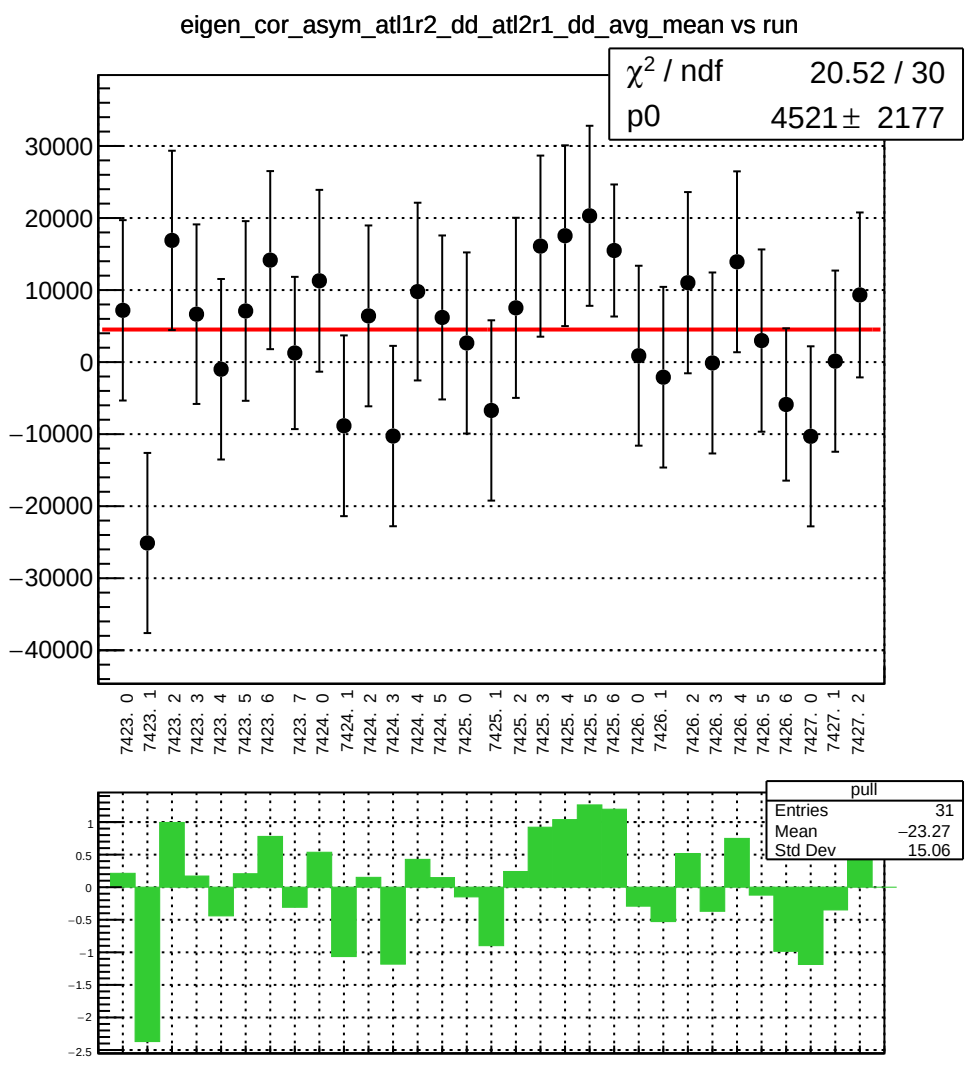

pull1D
Entries 31
Mean −0.00861
Std Dev 0.8135
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

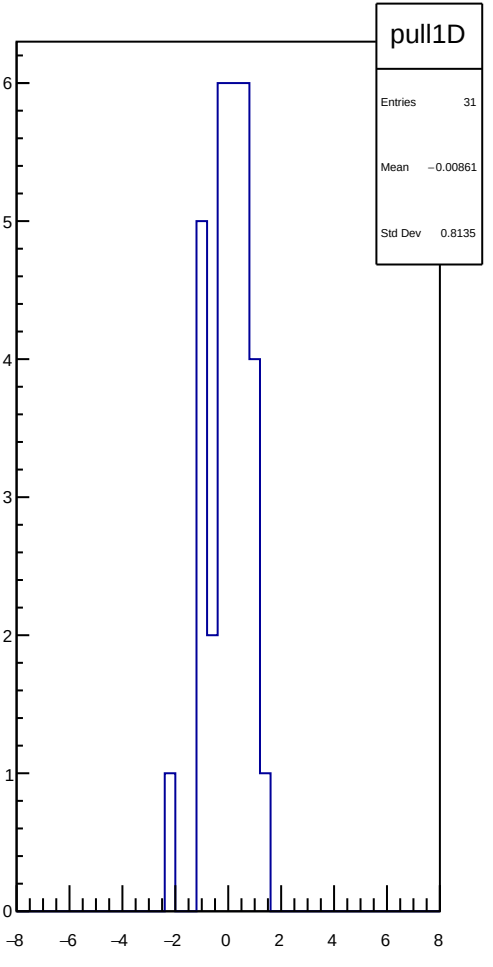

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 15.21 / 30
p0 1188 ± 1.539
1210
1200
1190
1180
1170
1160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

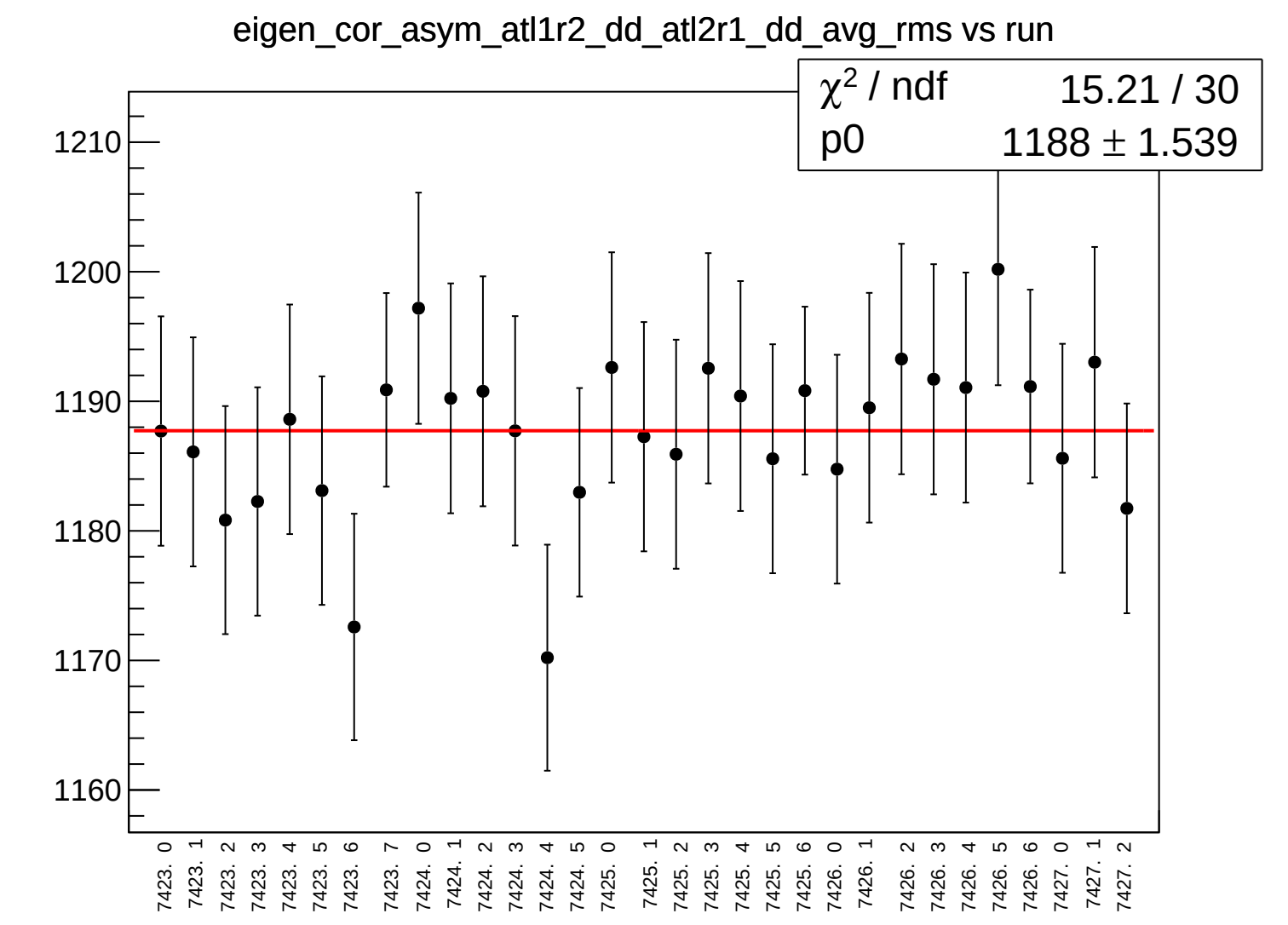

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 27.3 / 30
p0 −179 ± 874.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 338.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

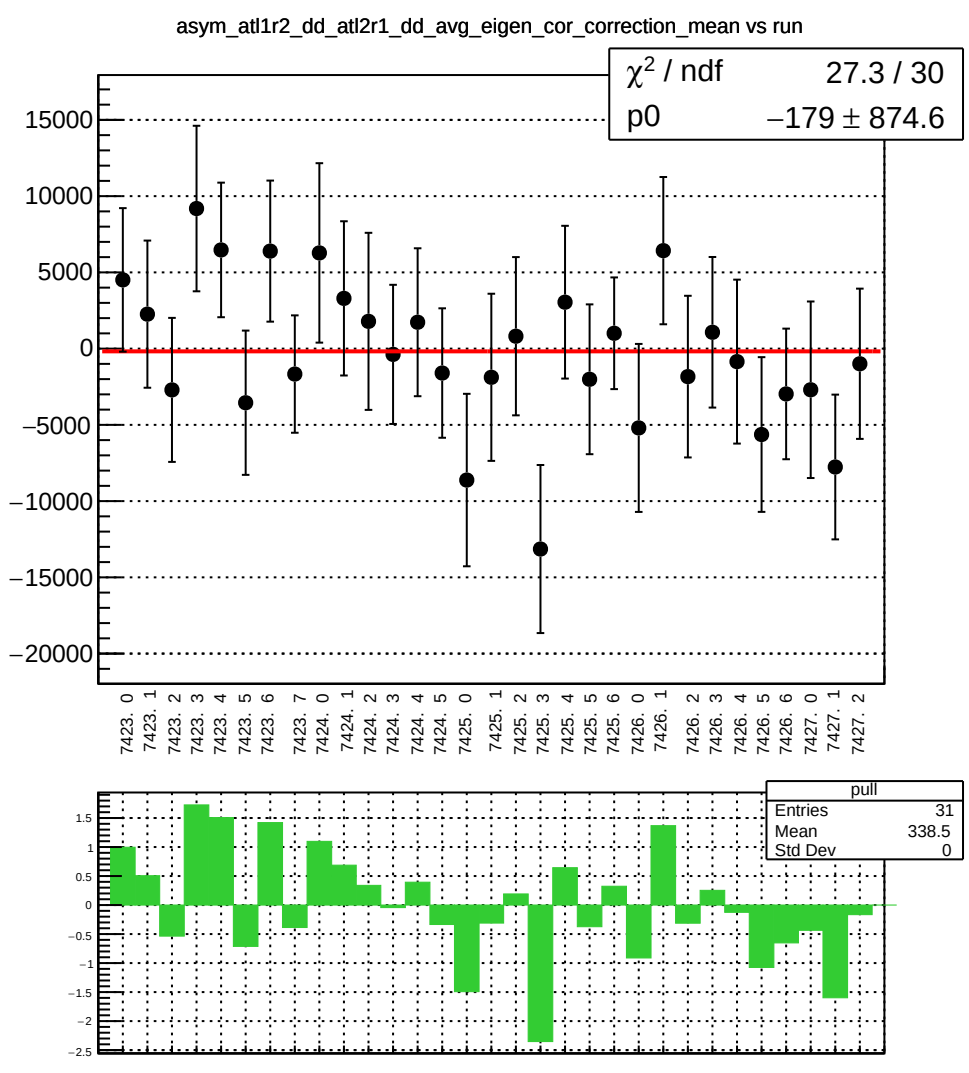

pull1D
Entries 31
Mean −0.01171
Std Dev 0.9384
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

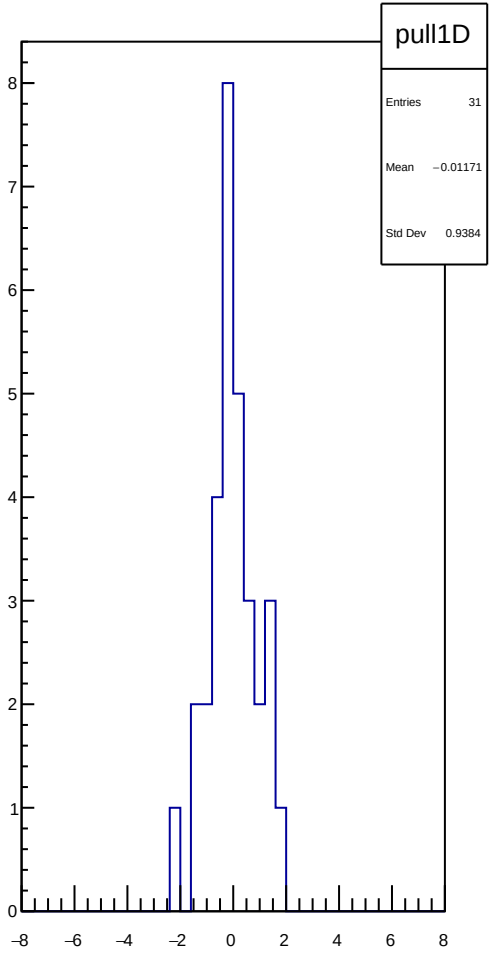

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 3422 / 30
p0 475.9 ± 0.6185
560
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

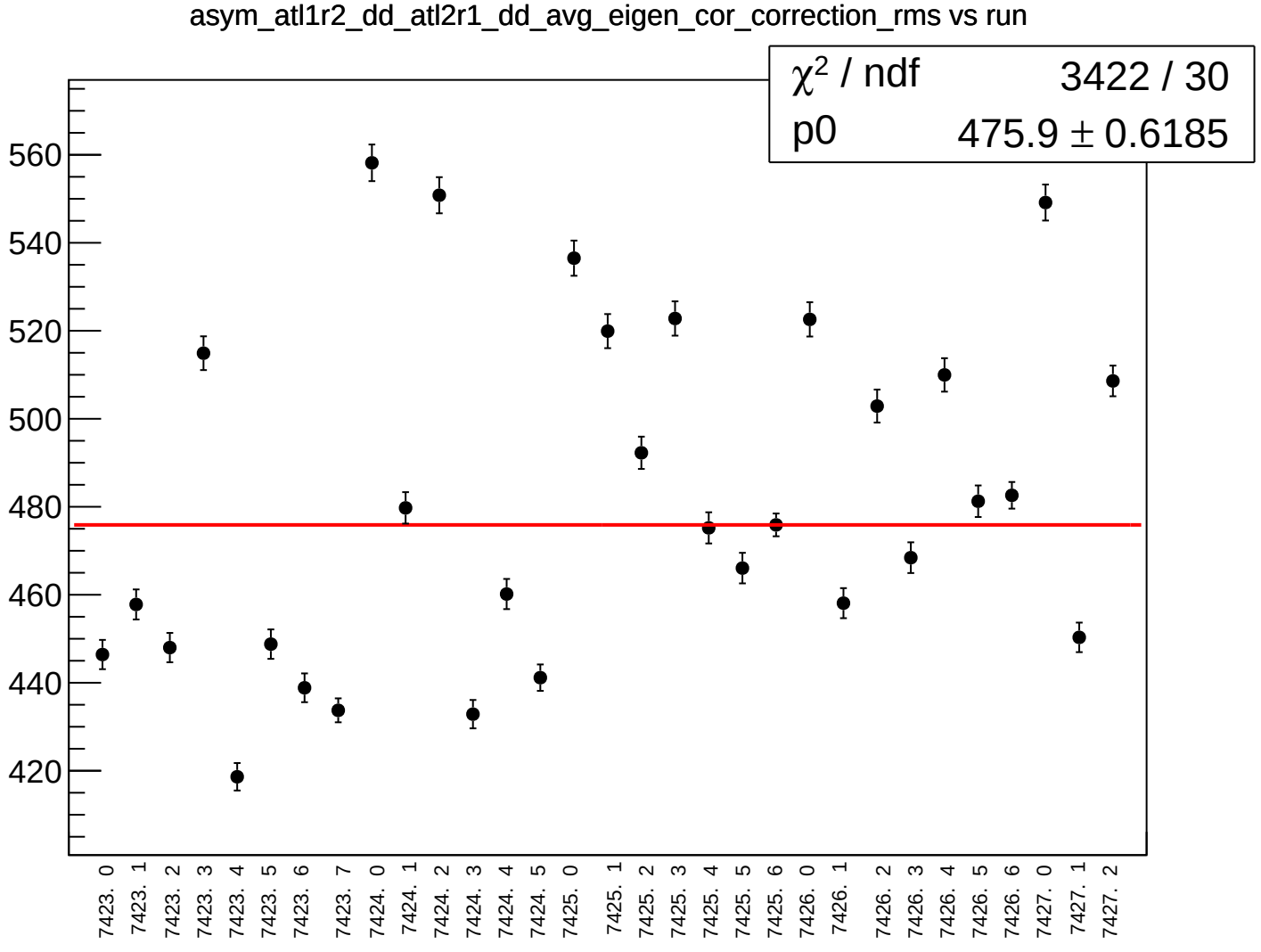

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 20.52 / 30
p0 4521 ± 2177
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −23.27
Std Dev 15.06
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

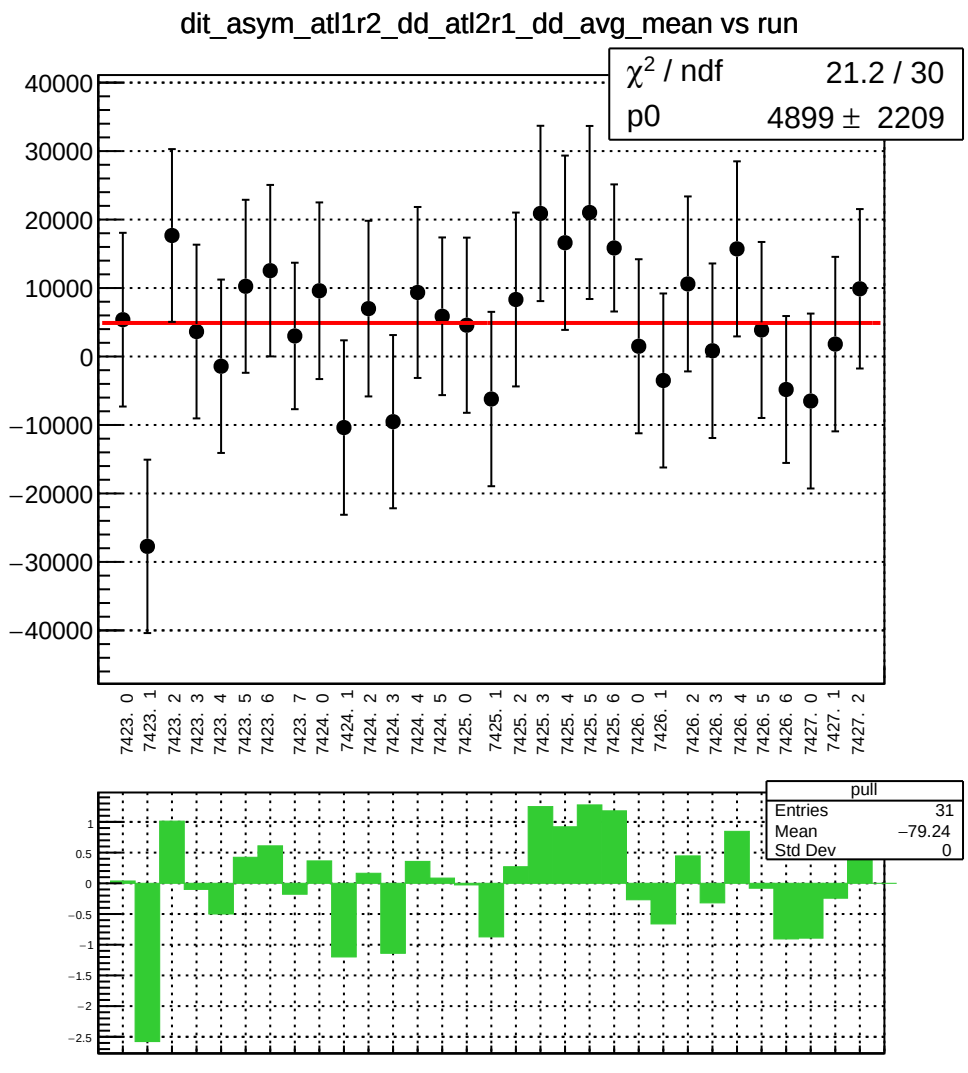

pull1D
Entries 31
Mean −0.00861
Std Dev 0.8135
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

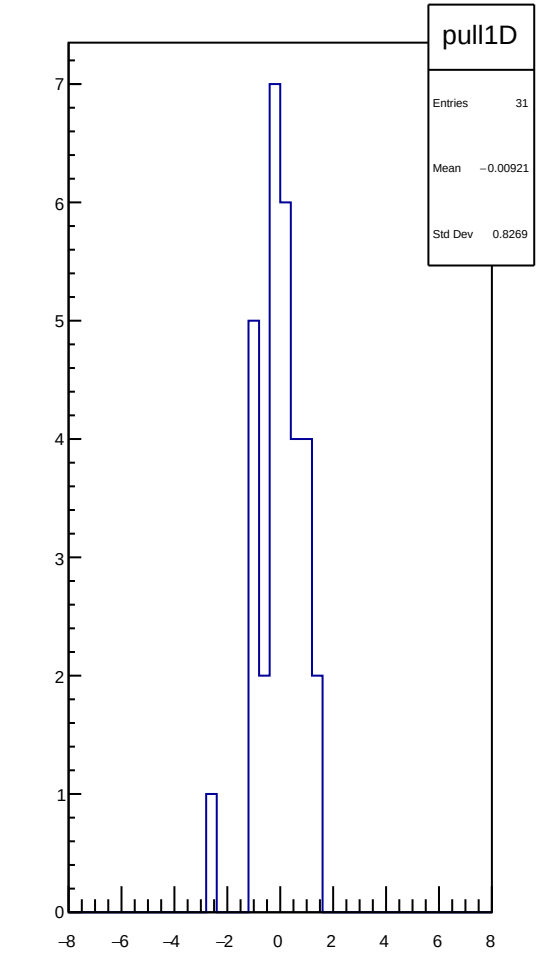

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 15.21 / 30
p0 1188 ± 1.539
1210
1200
1190
1180
1170
1160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

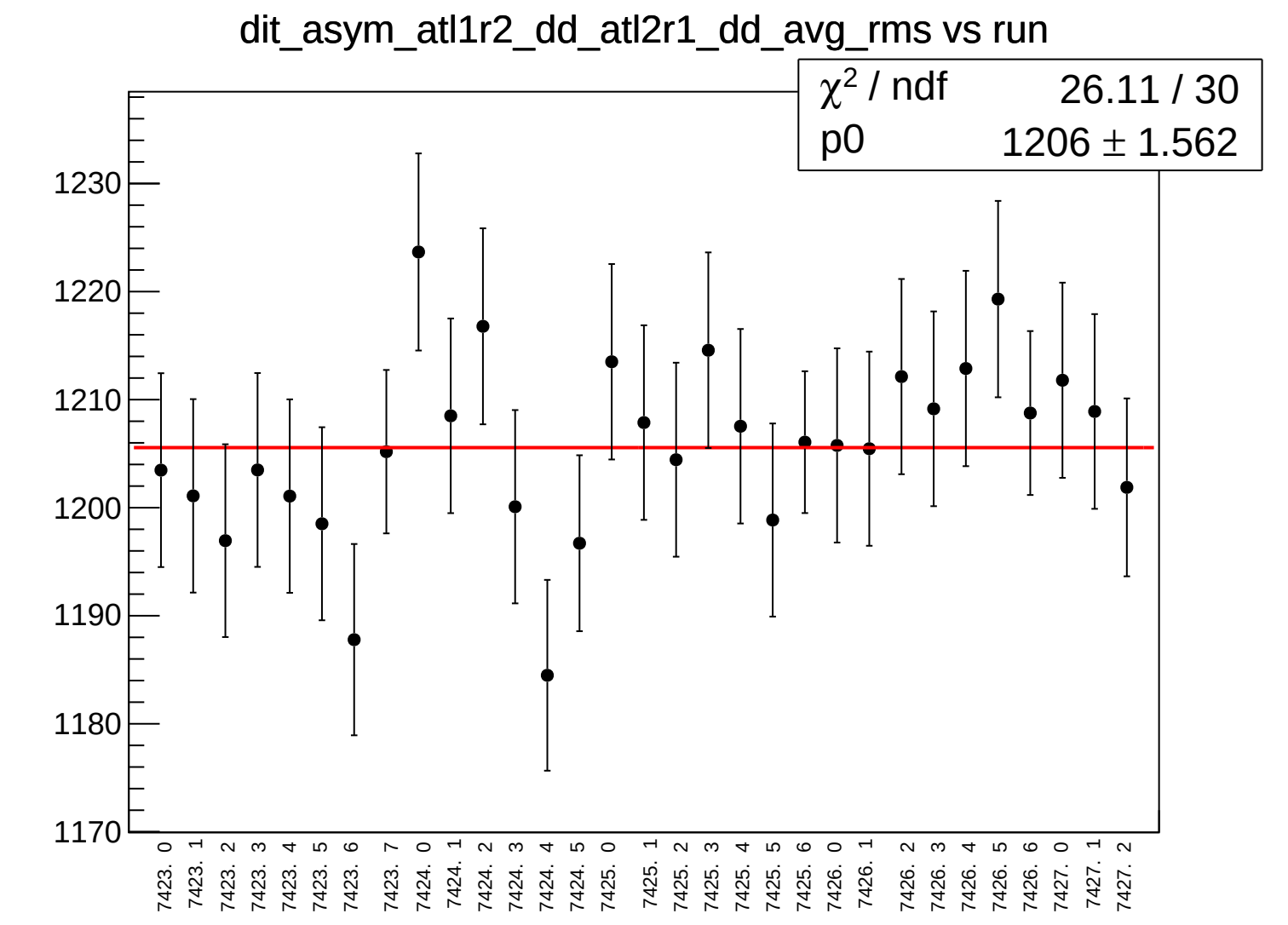

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 27.3 / 30
p0 −179 ± 874.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 338.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

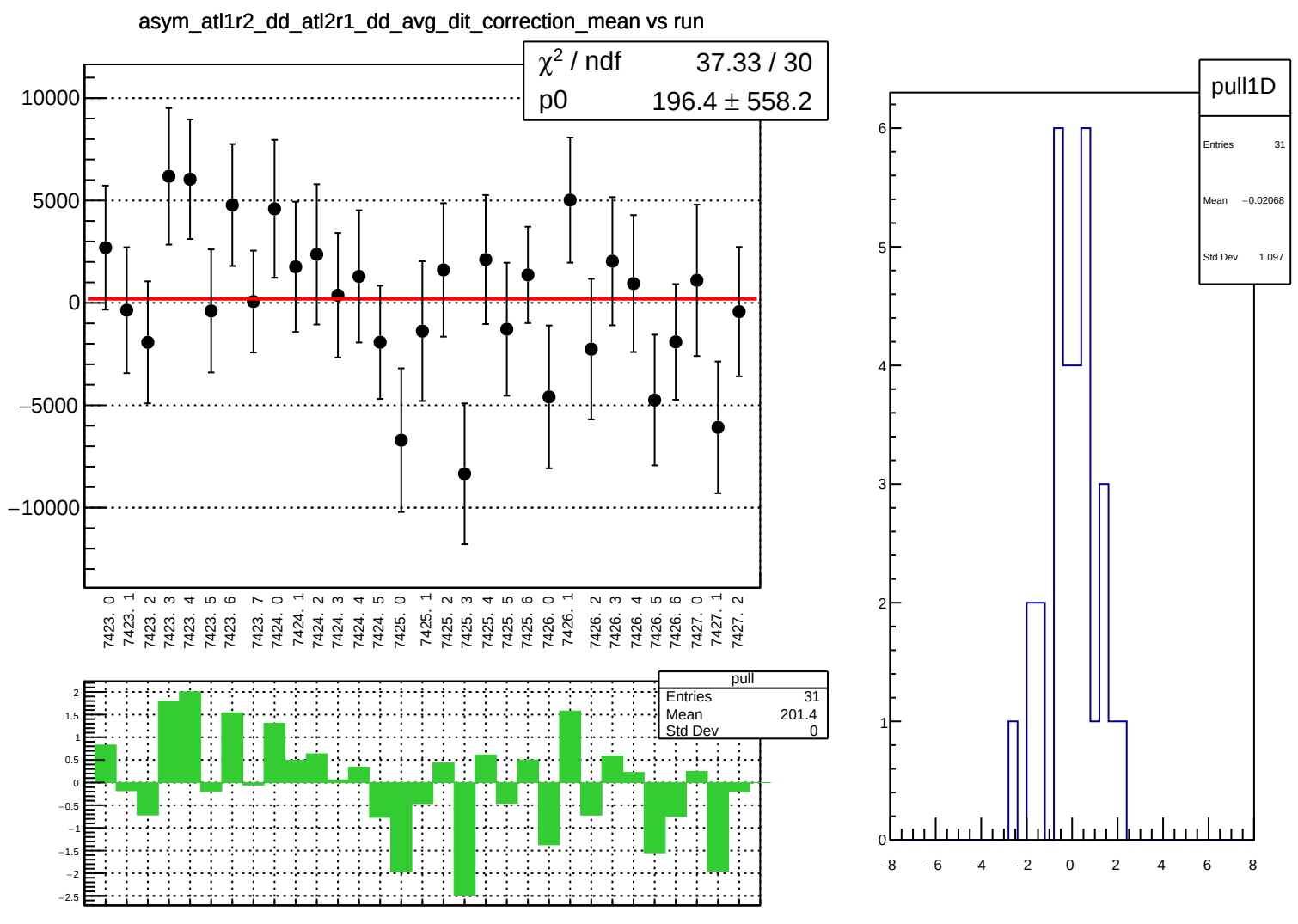

pull1D
Entries 31
Mean −0.01171
Std Dev 0.9384
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

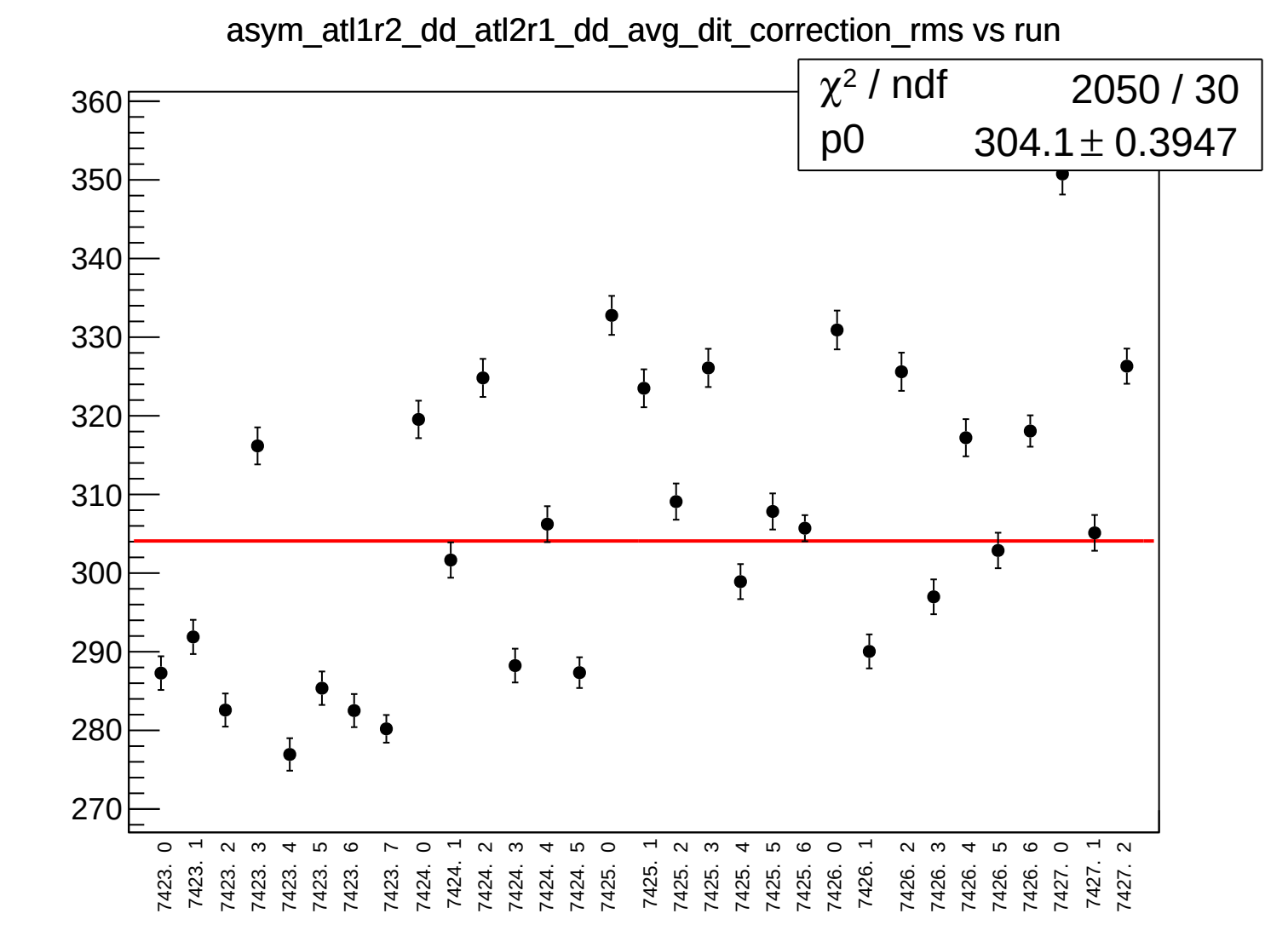

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3422 / 30
p0 475.9 ± 0.6185
560
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

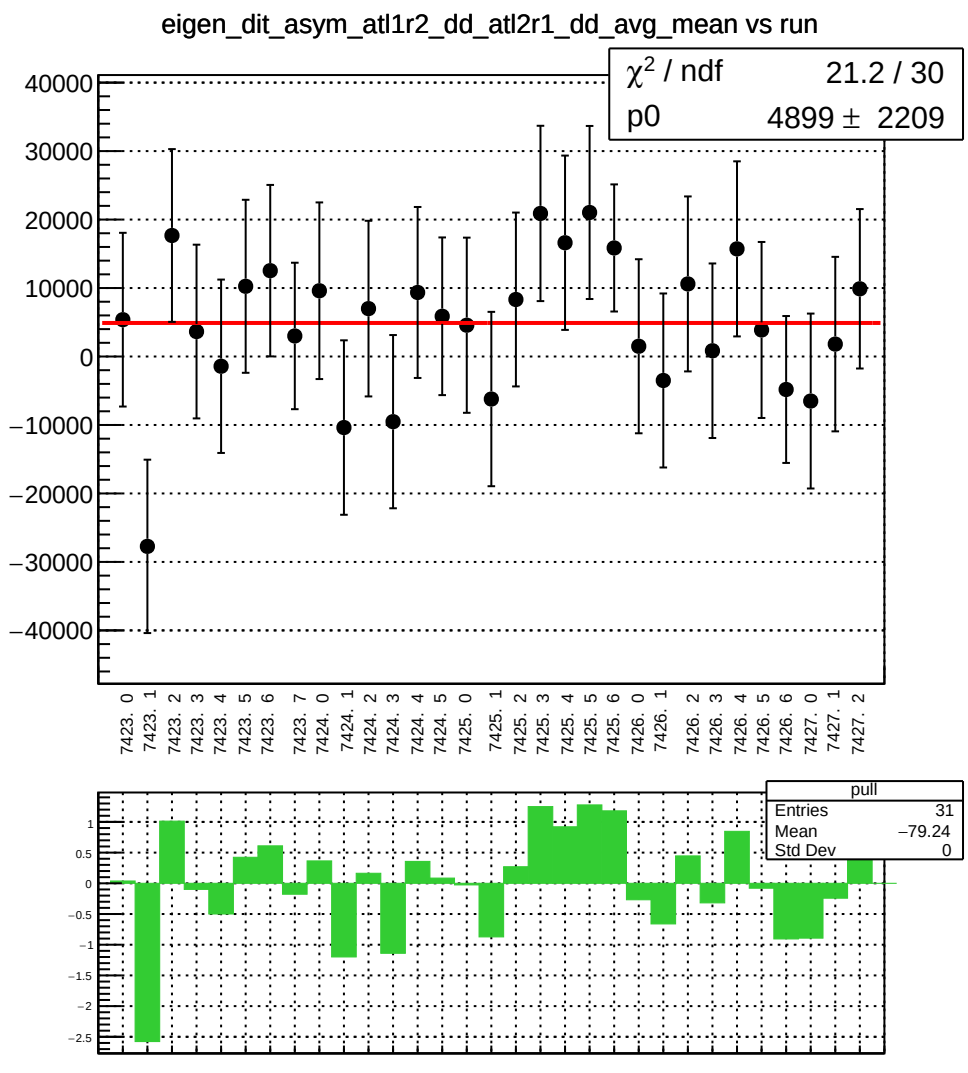

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 21.2 / 30
p0 4899 ± 2209
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −79.24
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

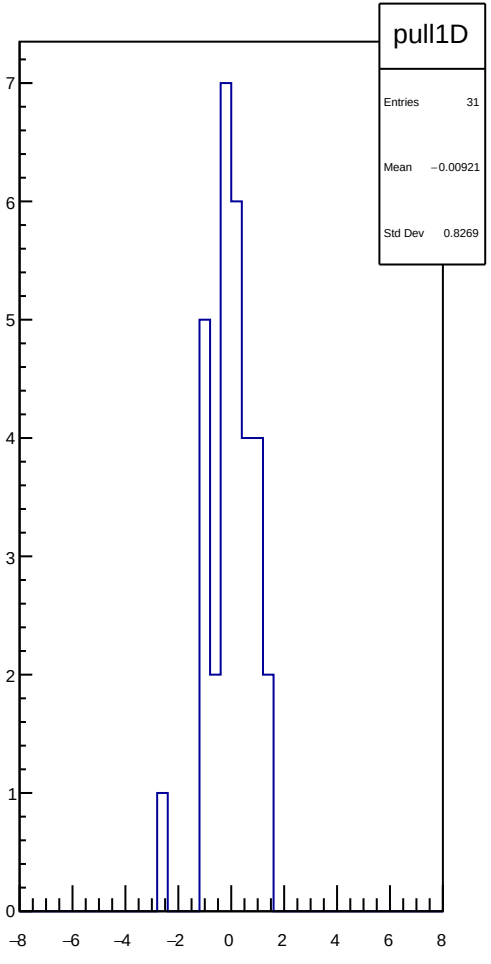

pull1D
Entries 31
Mean −0.00921
Std Dev 0.8269
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

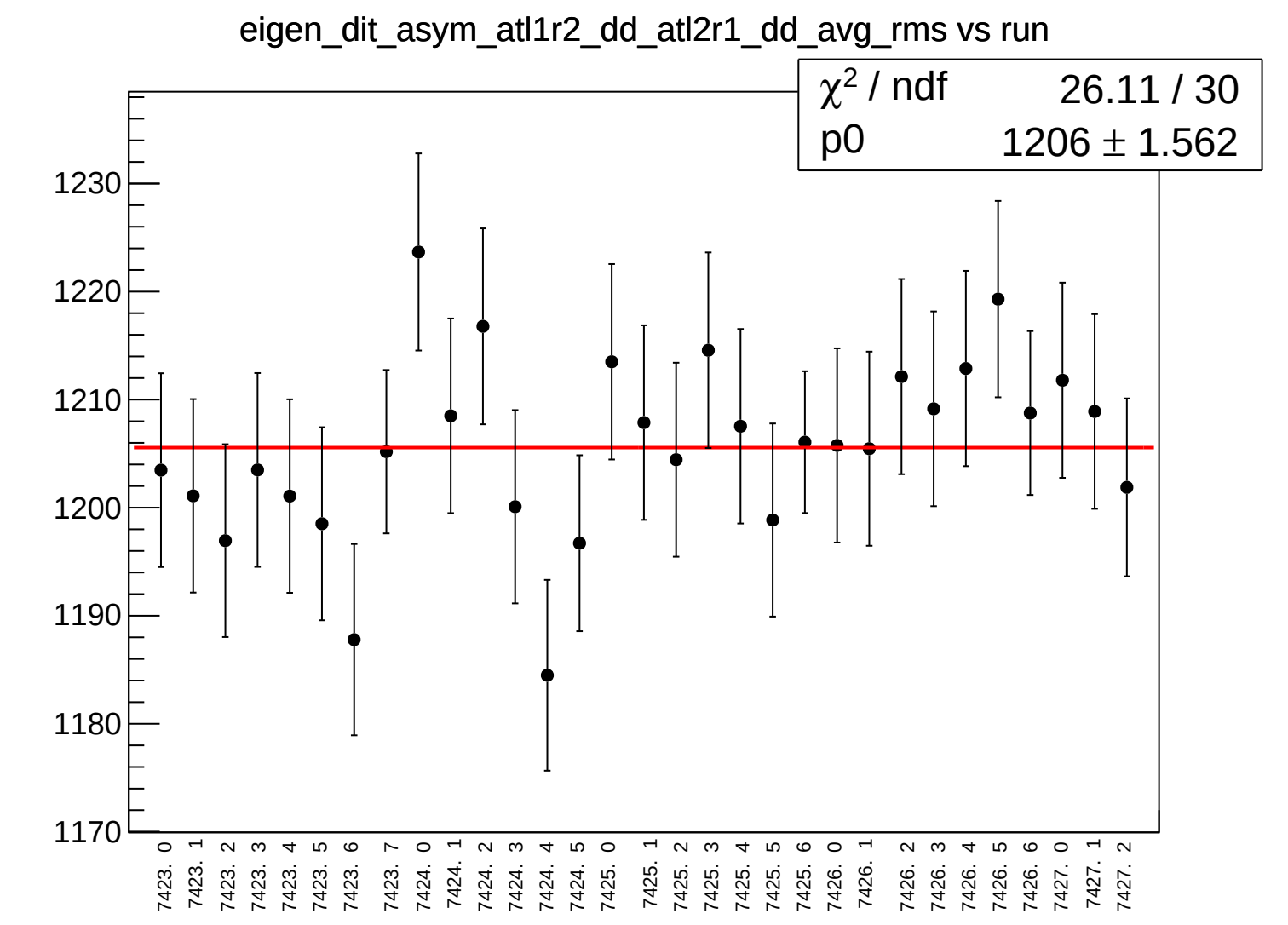

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 26.11 / 30
p0 1206 ± 1.562
1230
1220
1210
1200
1190
1180
1170
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

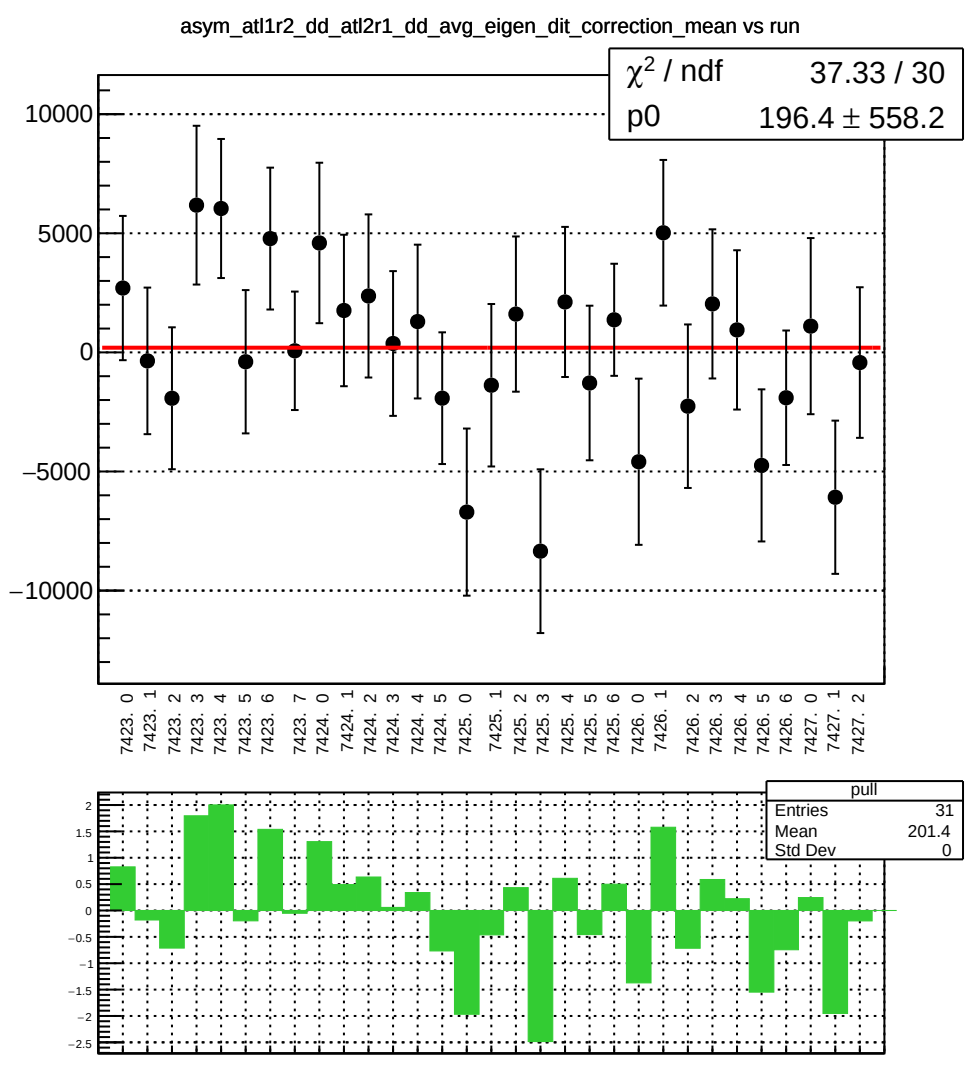

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 37.33 / 30
p0 196.4 ± 558.2
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 201.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.02068
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

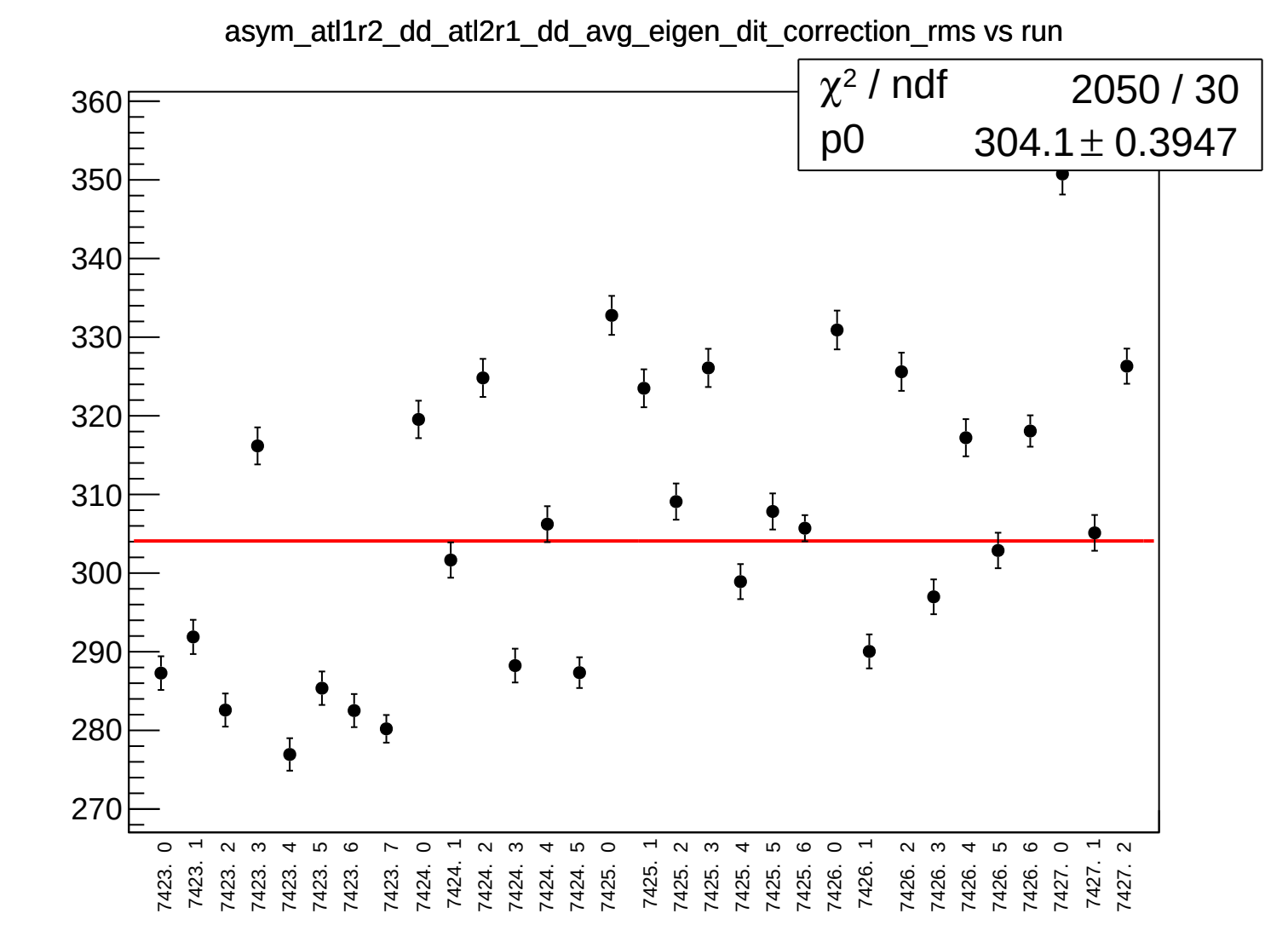

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2050 / 30
p0 304.1 ± 0.3947
360
350
340
330
320
310
300
290
280
270
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

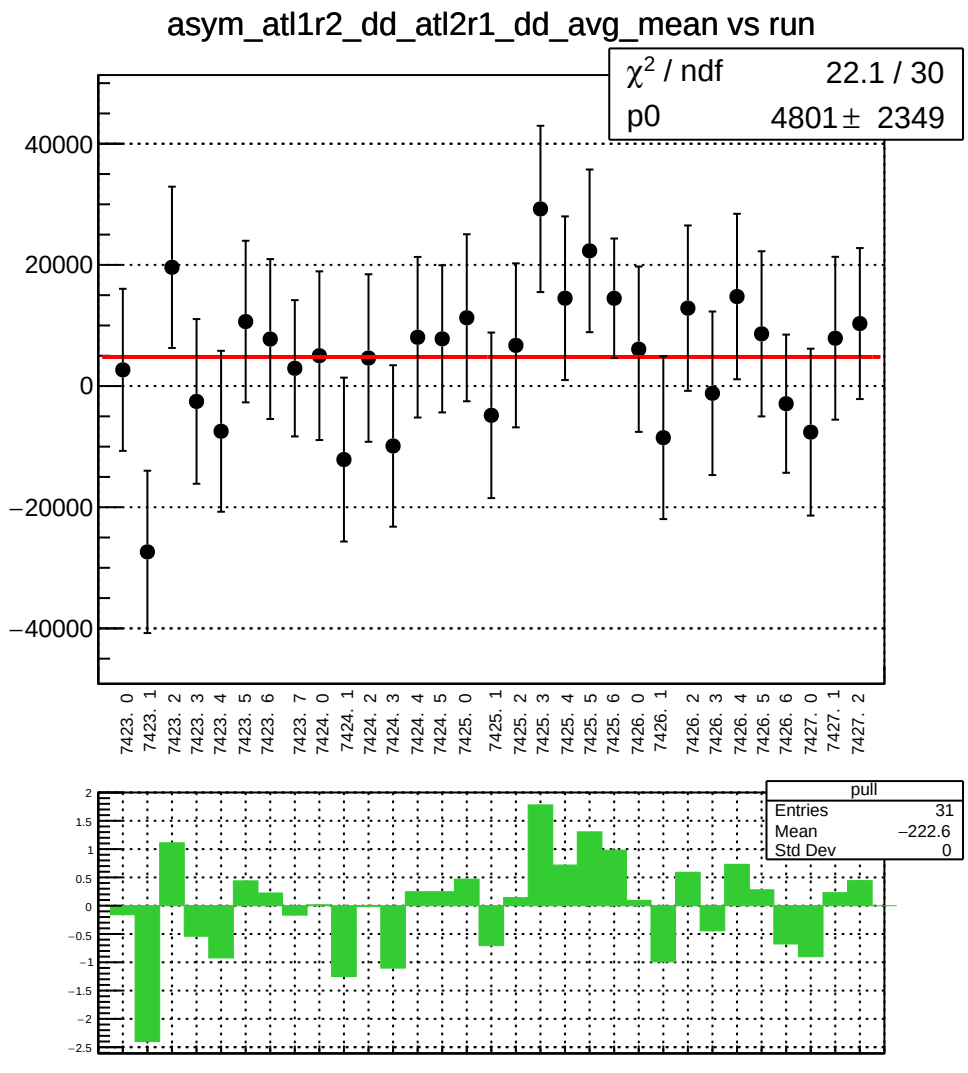

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 21.2 / 30
p0 4899 ± 2209
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −79.24
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

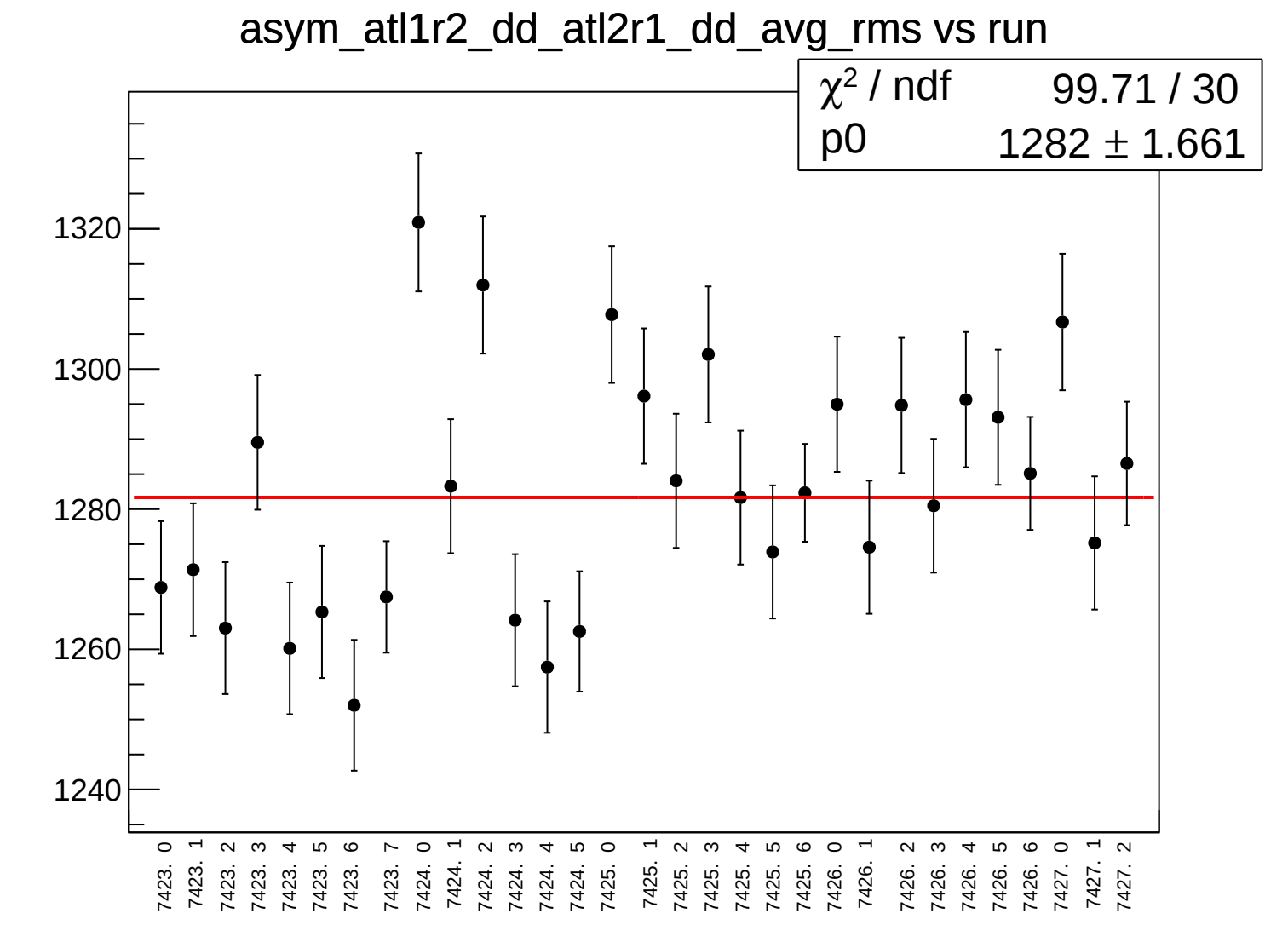

pull1D
Entries 31
Mean −0.00921
Std Dev 0.8269
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

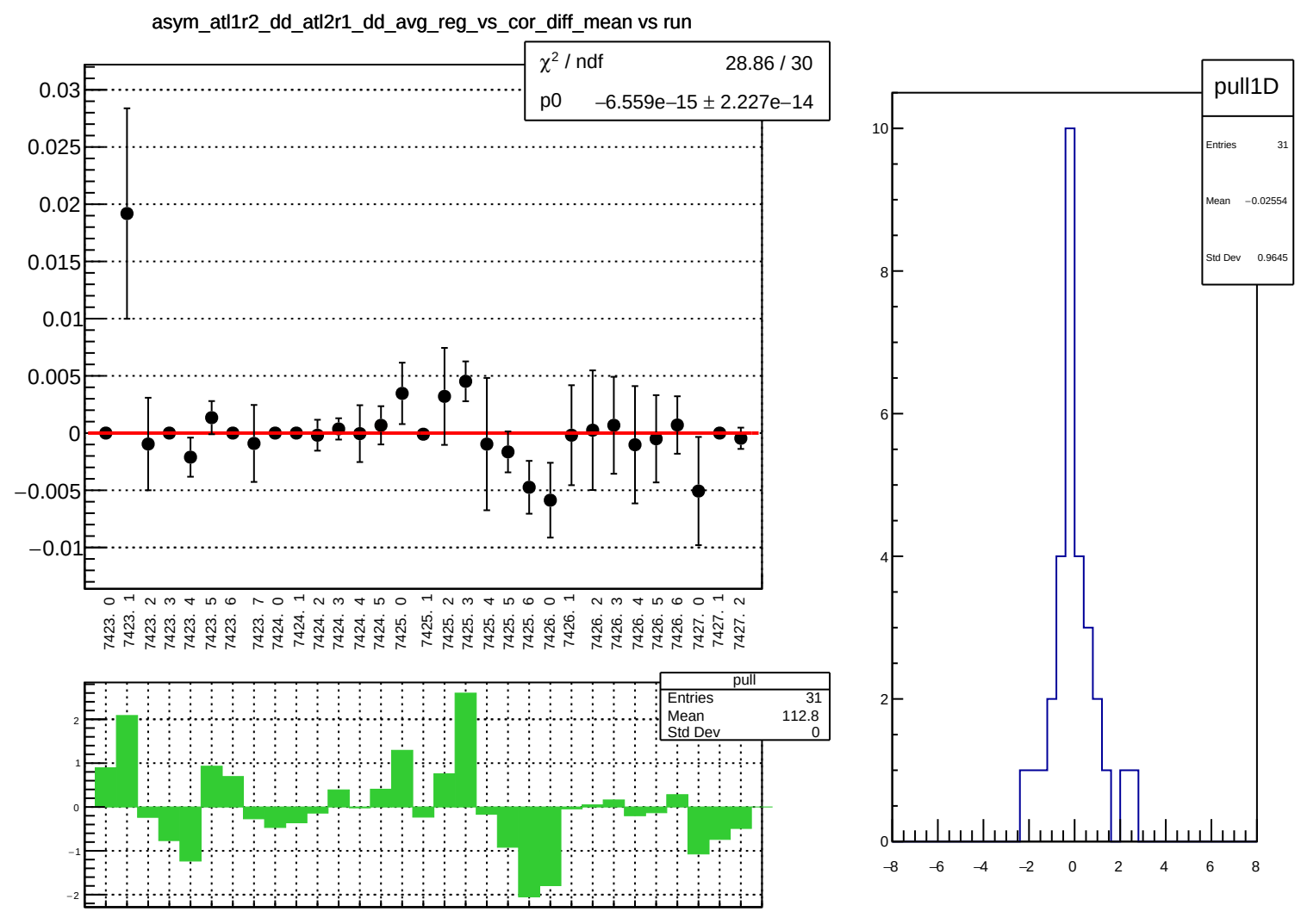

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 26.11 / 30
p0 1206 ± 1.562
1230
1220
1210
1200
1190
1180
1170
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

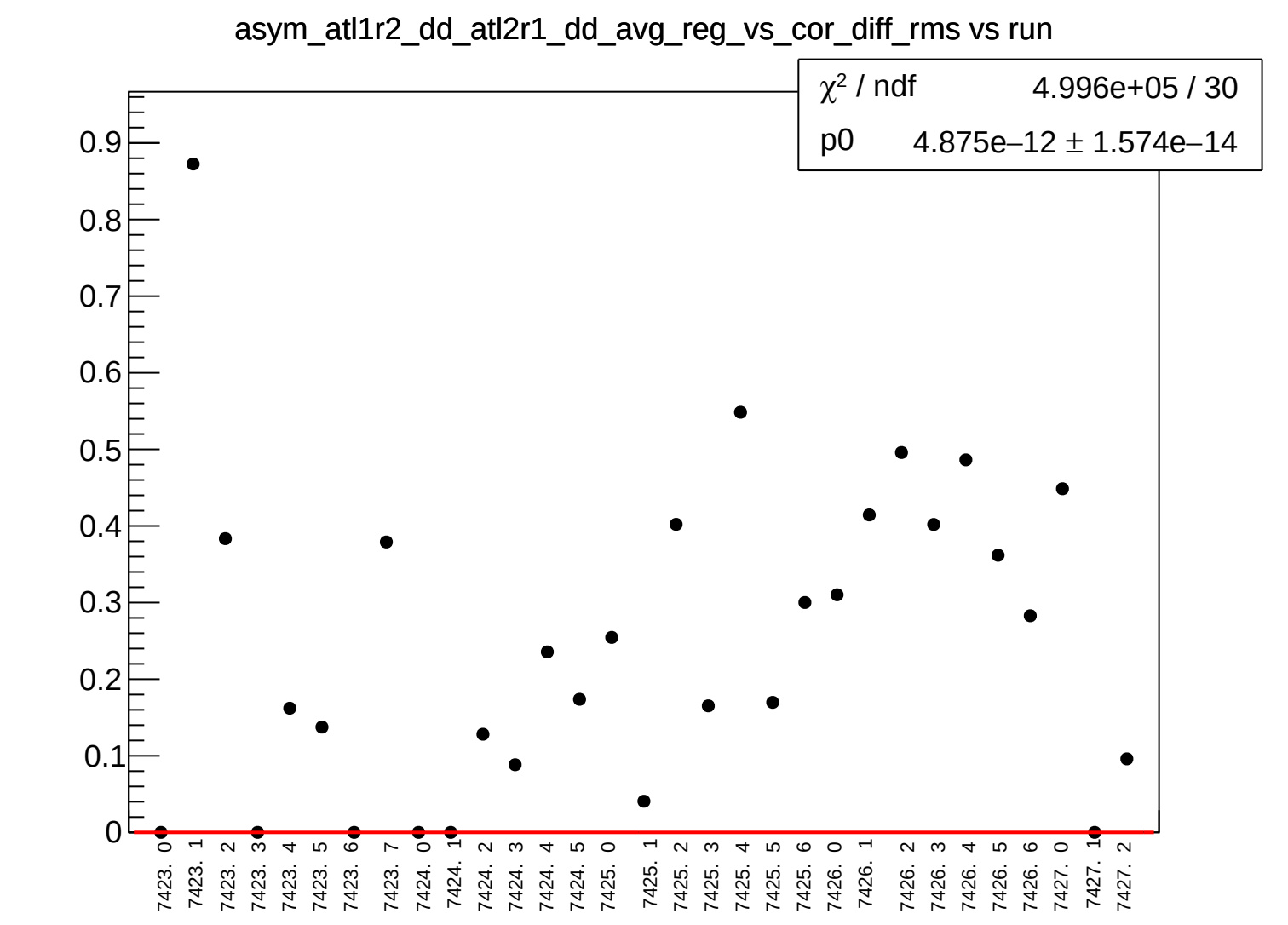

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 37.33 / 30
p0 196.4 ± 558.2
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 201.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.02068
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

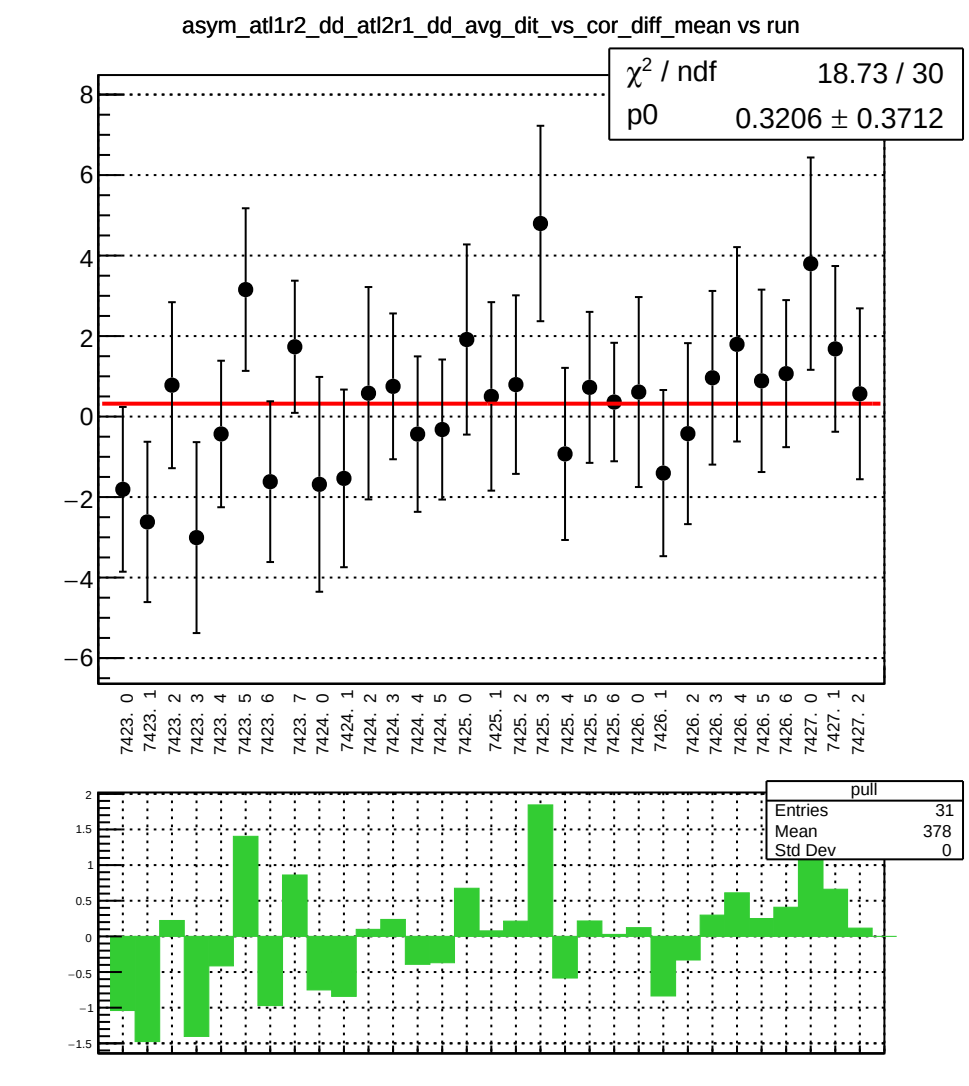

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2050 / 30
p0 304.1 ± 0.3947
360
350
340
330
320
310
300
290
280
270
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

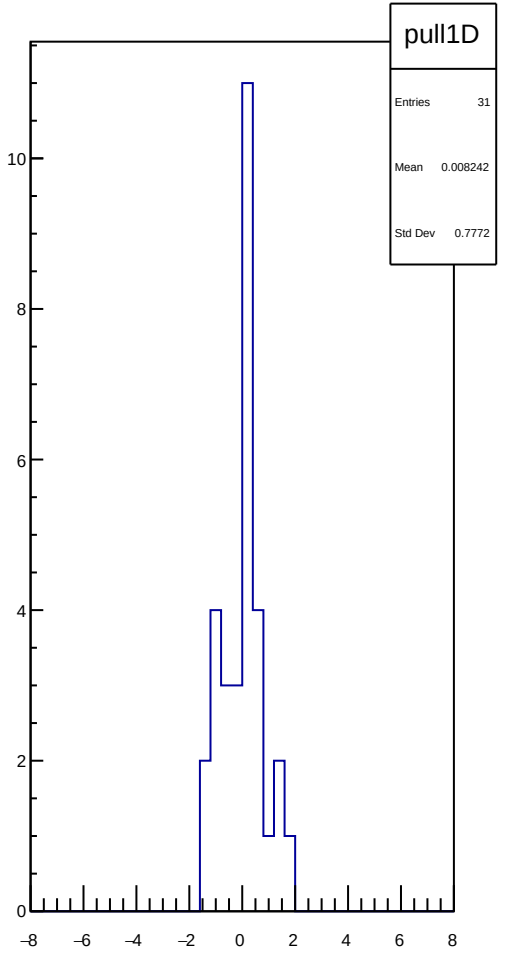

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 22.1 / 30
p0 4801 ± 2349
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −222.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.007321
Std Dev 0.8443
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

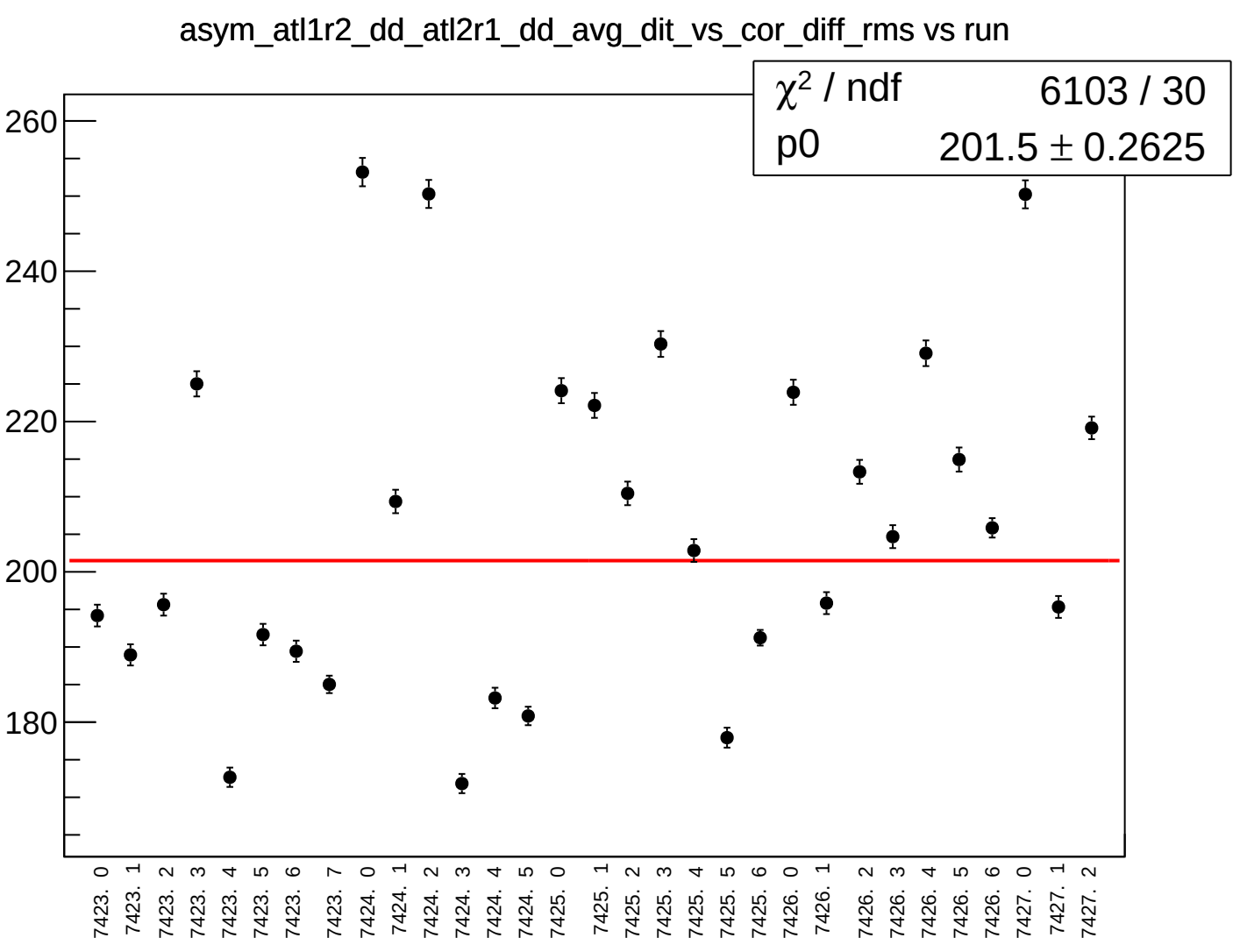

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 99.71 / 30
p0 1282 ± 1.661
1320
1300
1280
1260
1240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

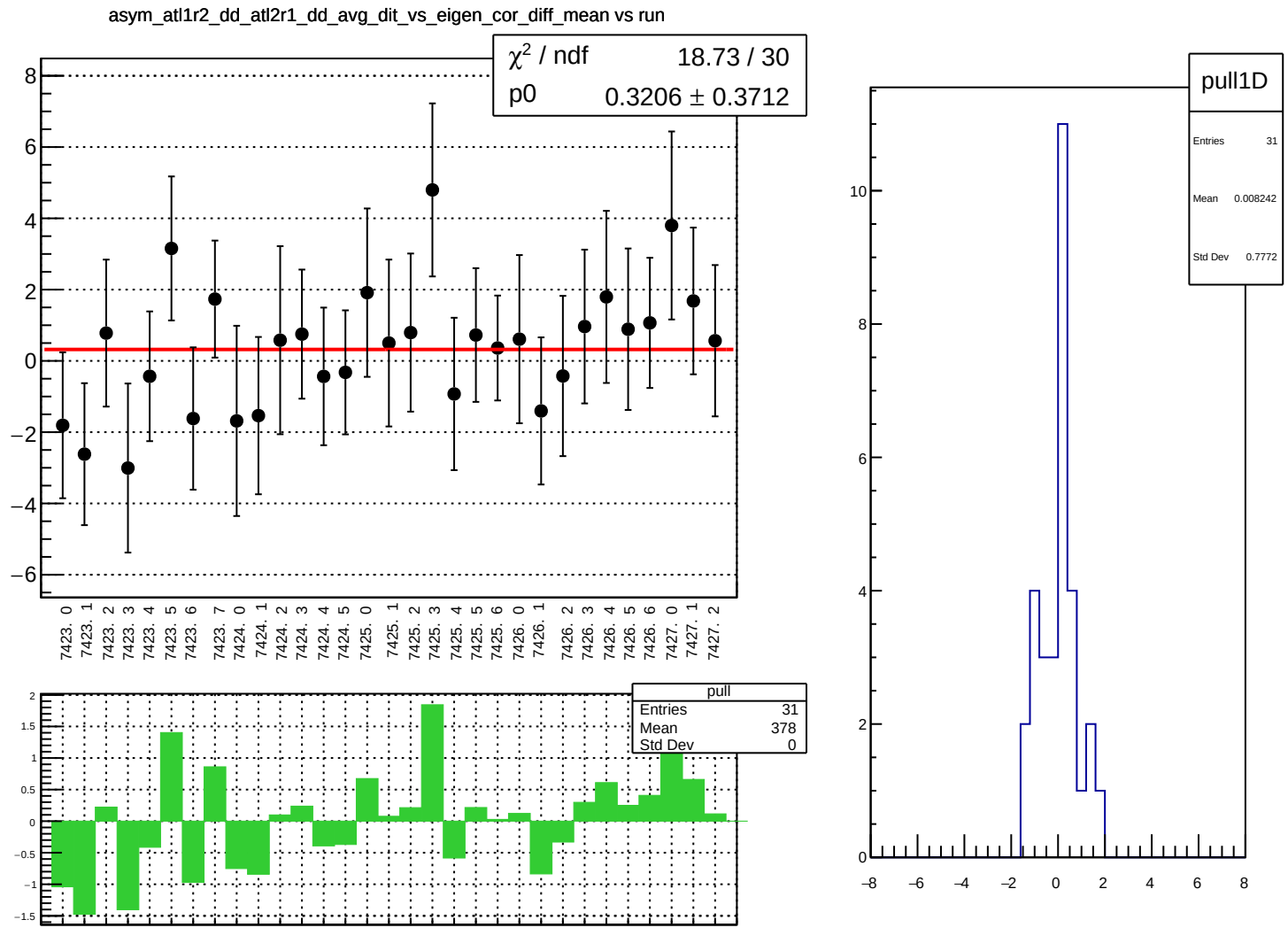

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.86 / 30
p0 −6.559e−15 ± 2.227e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 112.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.02554
Std Dev 0.9645
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

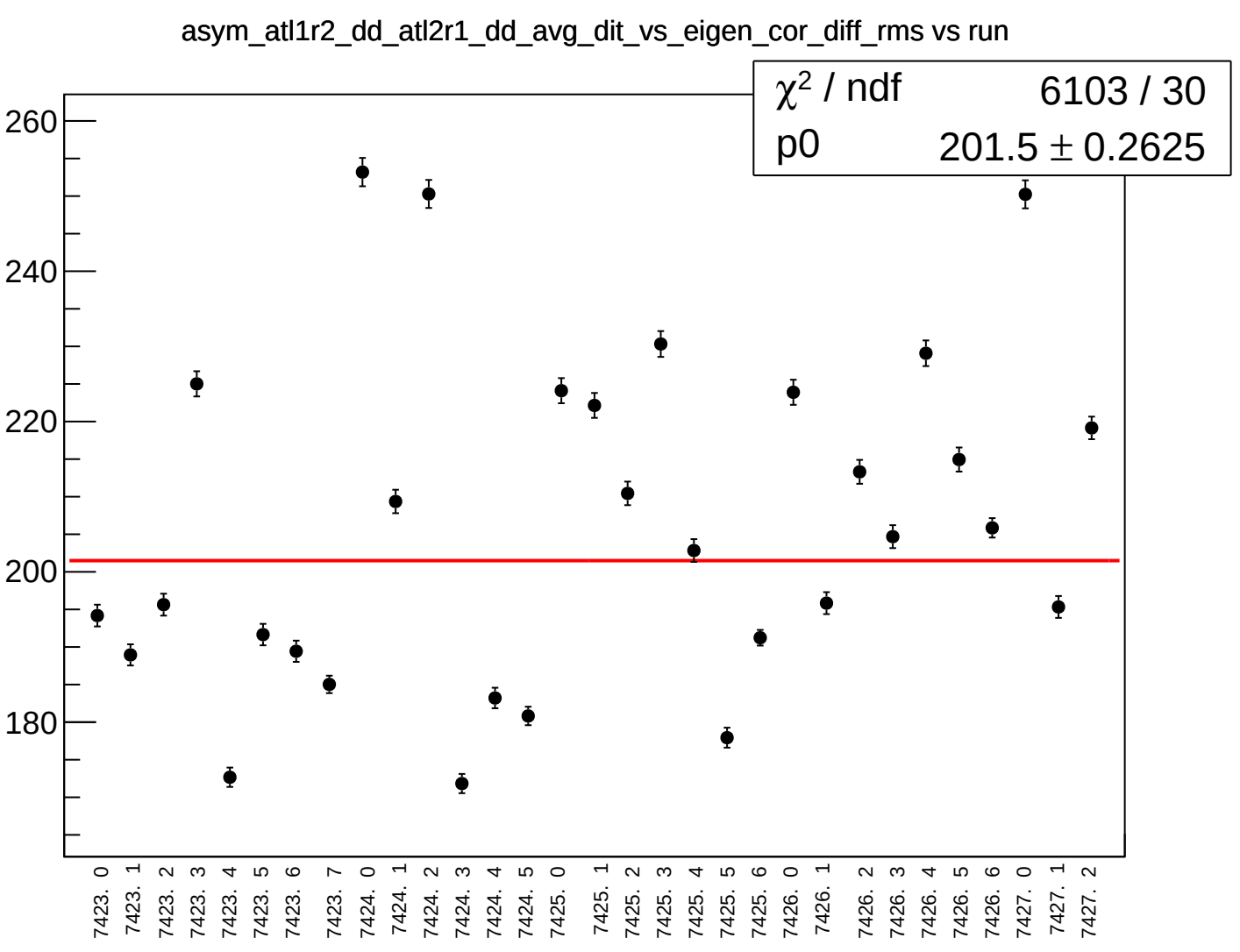

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.996e+05 / 30
p0 4.875e−12 ± 1.574e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

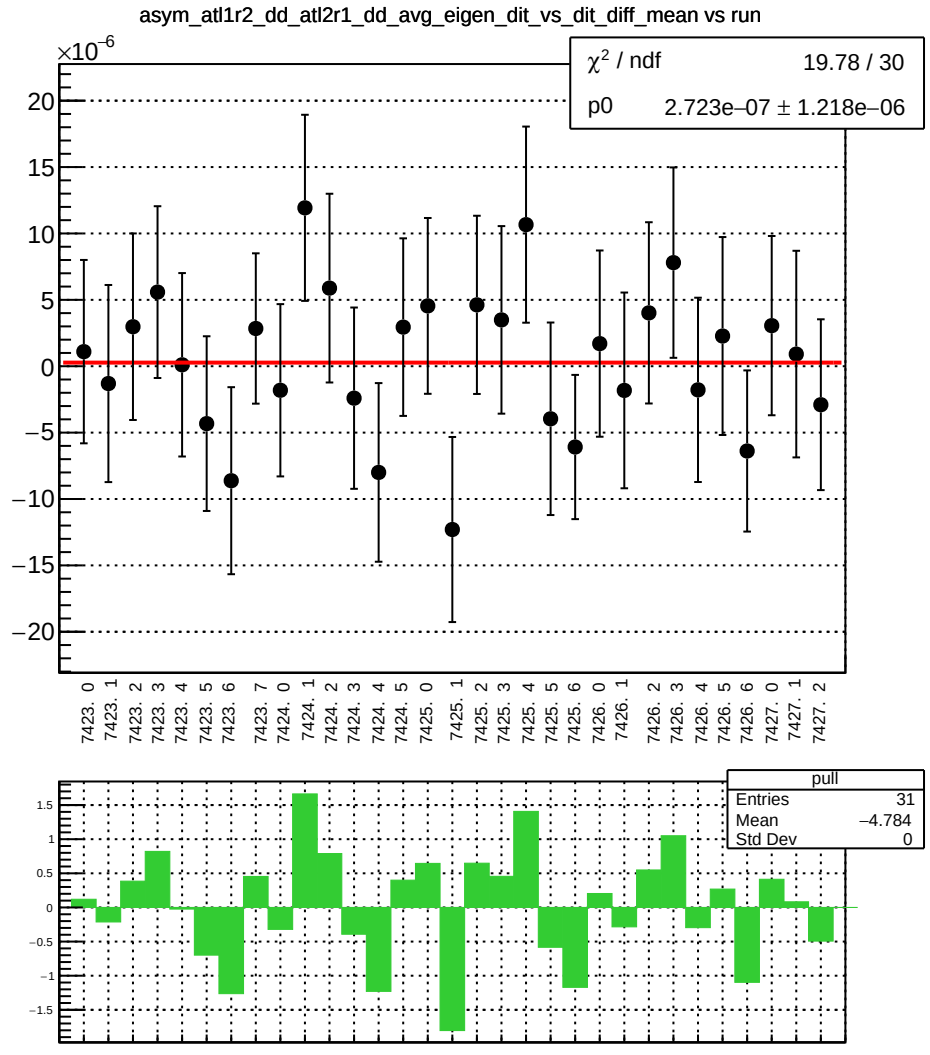

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 18.73 / 30
p0 0.3206 ± 0.3712
pull
Entries 31
Mean 378
Std Dev 0

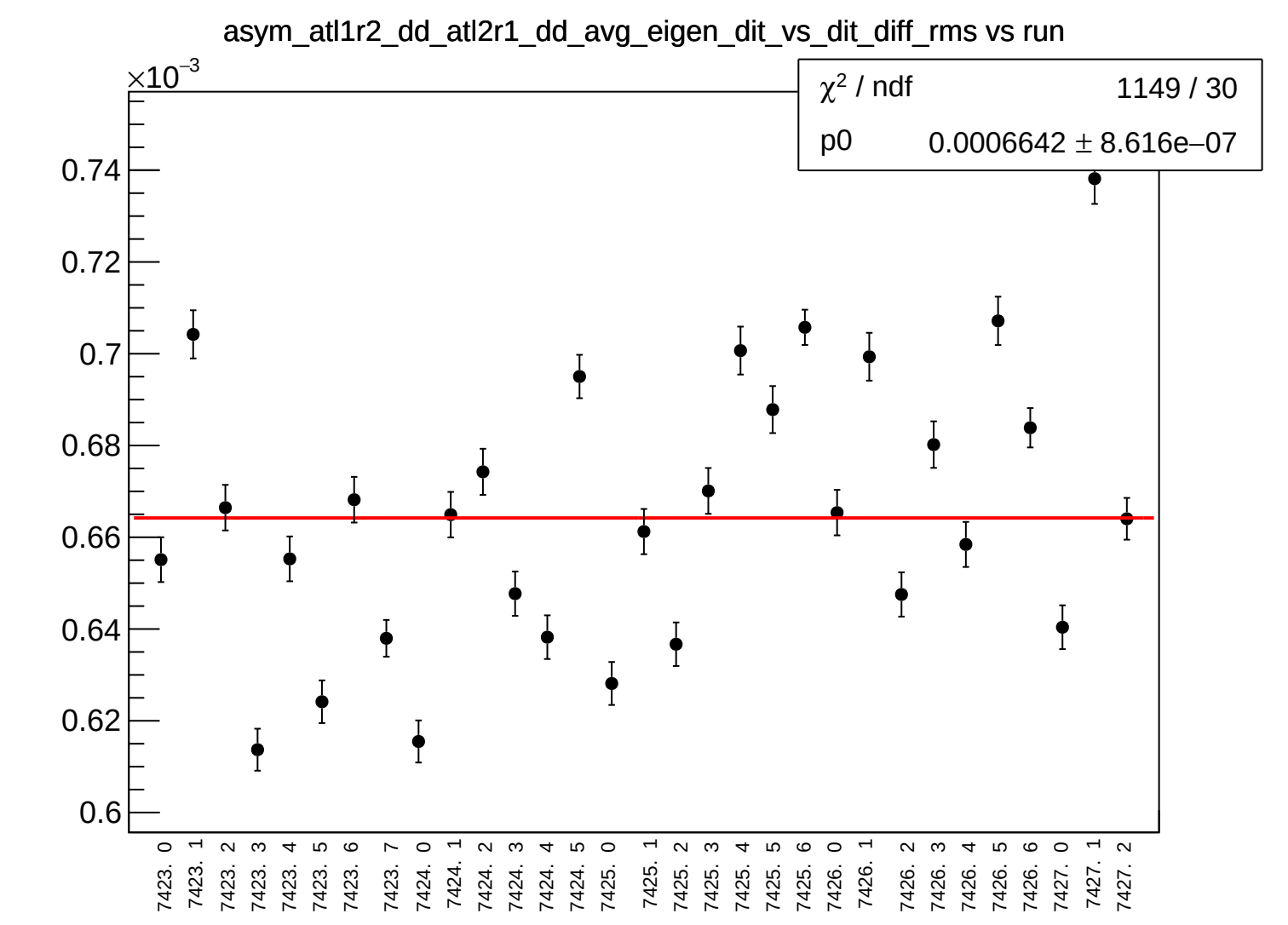

pull1D
Entries 31
Mean 0.008242
Std Dev 0.7772

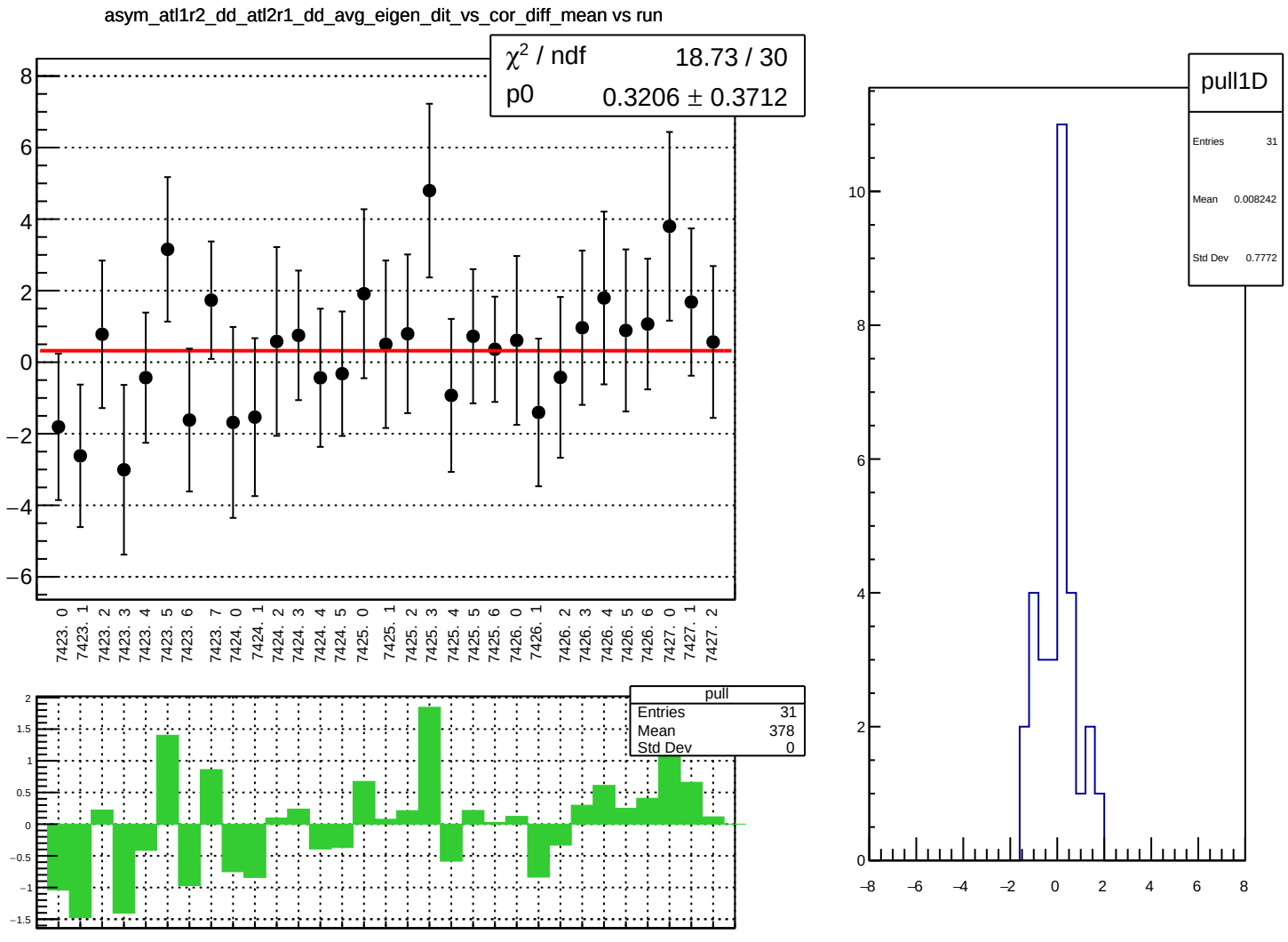

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6103 / 30
p0 201.5 ± 0.2625
260
240
220
200
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

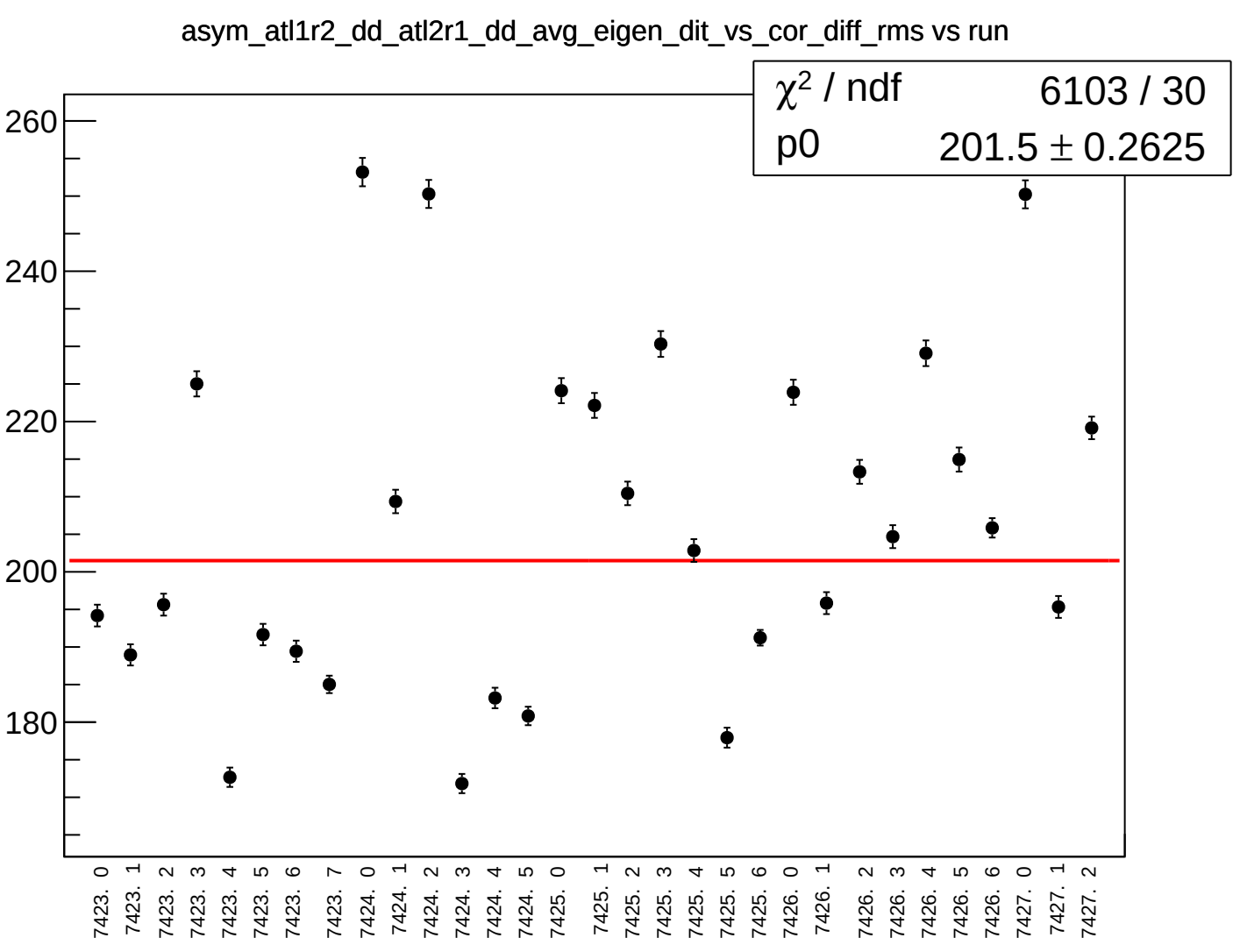

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.73 / 30
p0 0.3206 ± 0.3712
8
6
4
2
0
−2
−4
−6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 378
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.008242
Std Dev 0.7772
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

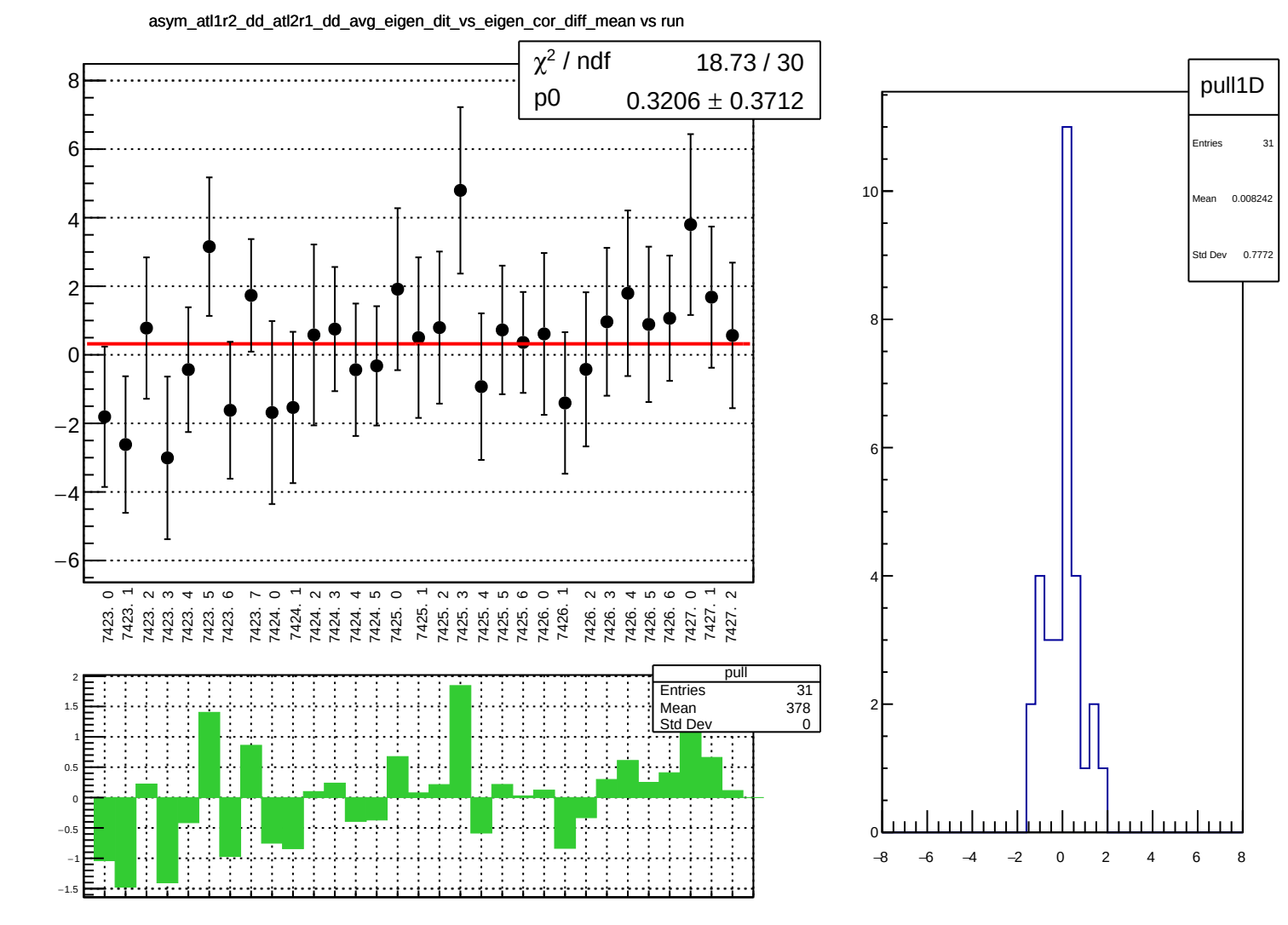

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6103 / 30
p0 201.5 ± 0.2625
260
240
220
200
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

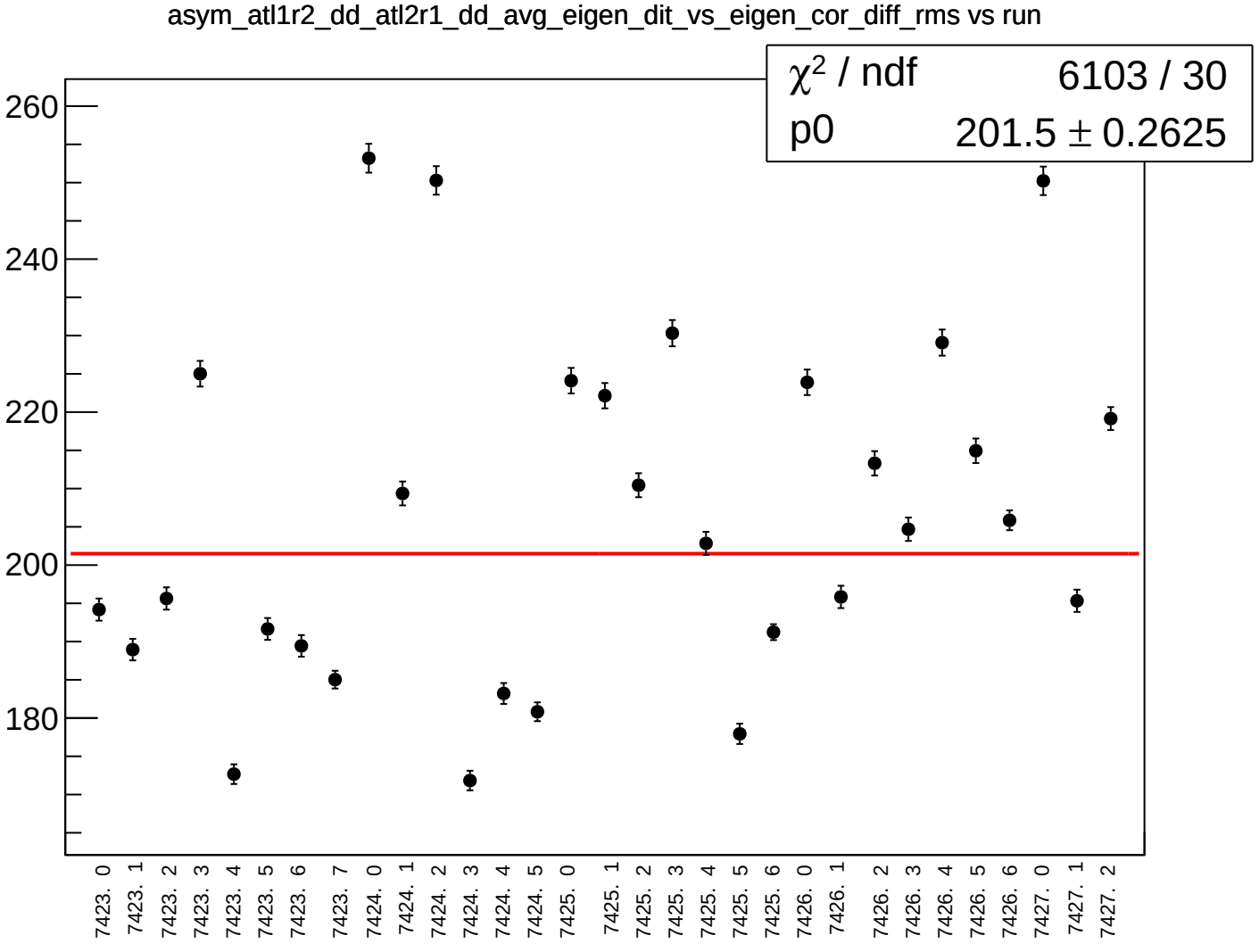

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 19.78 / 30
p0 2.723e−07 ± 1.218e−06
20
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −4.784
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01579
Std Dev 0.7987
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

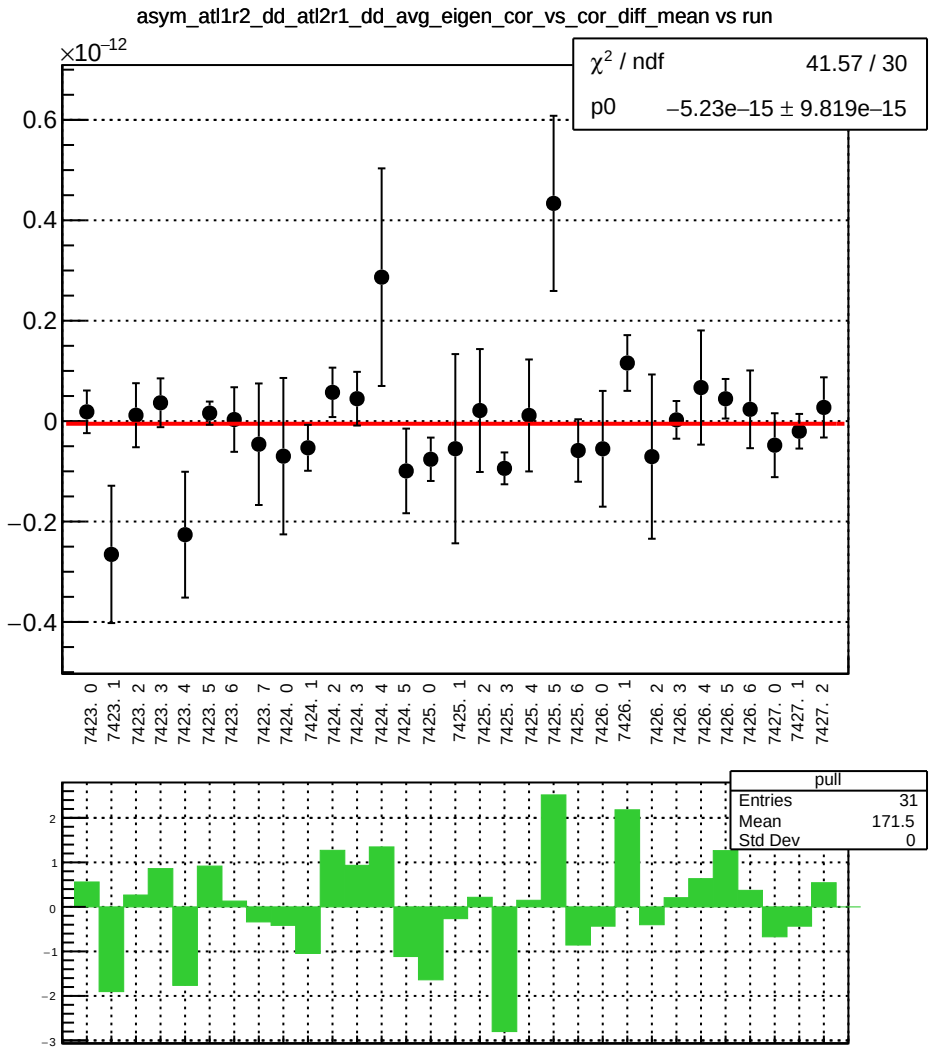

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1149 / 30
p0 0.0006642 ± 8.616e−07
0.74
0.72
0.7
0.68
0.66
0.64
0.62
0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

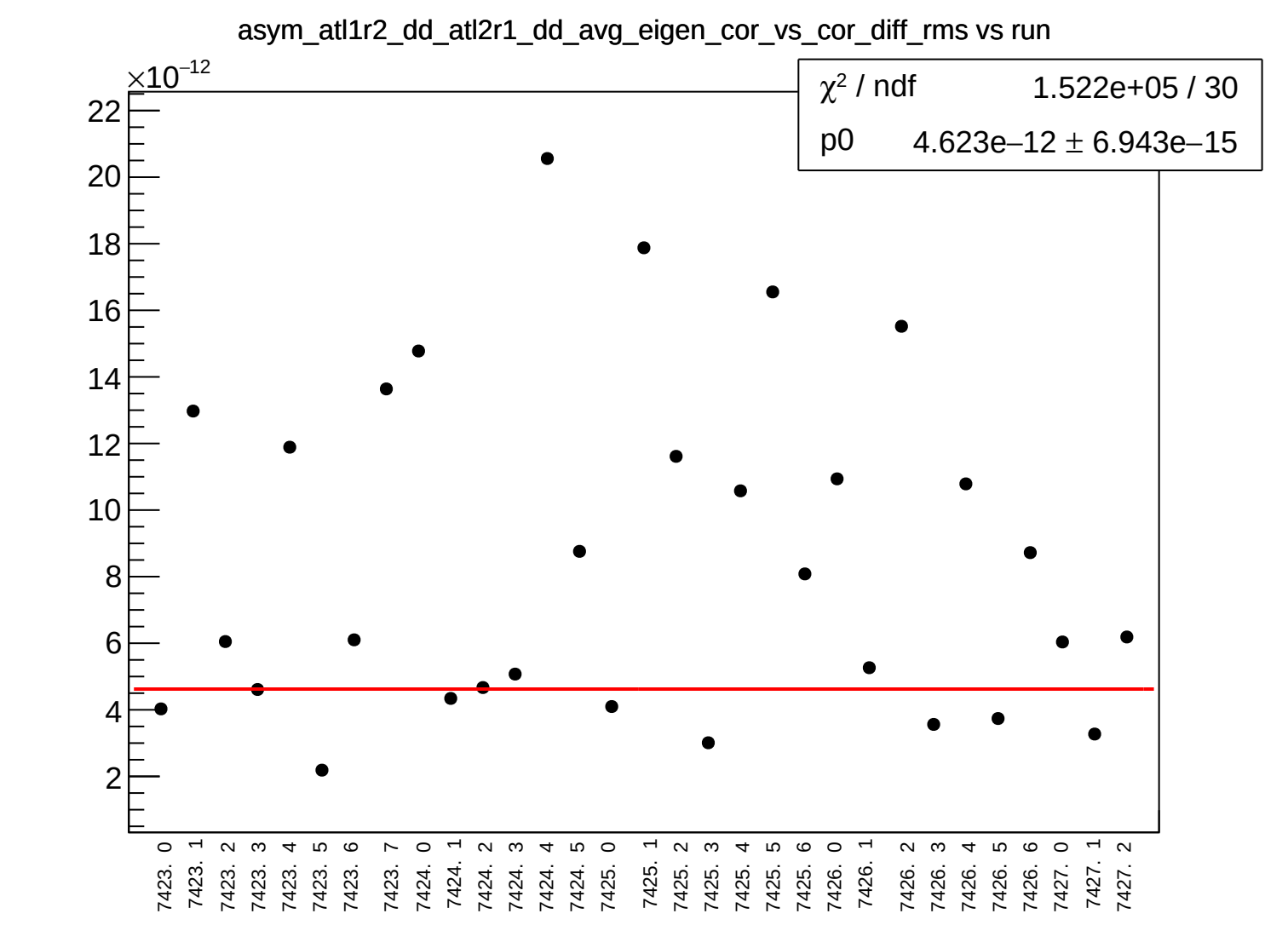

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.73 / 30
p0 0.3206 ± 0.3712
pull
Entries 31
Mean 378
Std Dev 0
pull1D
Entries 31
Mean 0.008242
Std Dev 0.7772

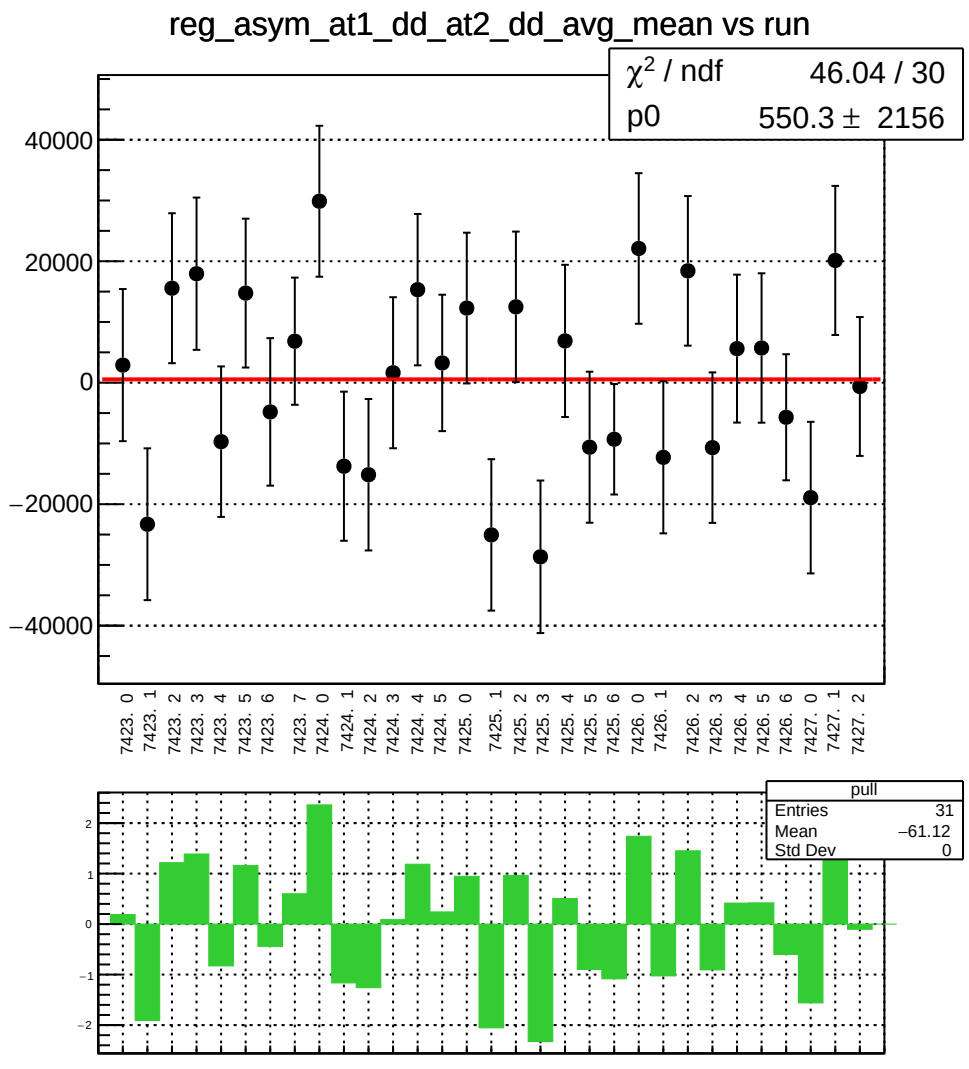

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6103 / 30
p0 201.5 ± 0.2625
260
240
220
200
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

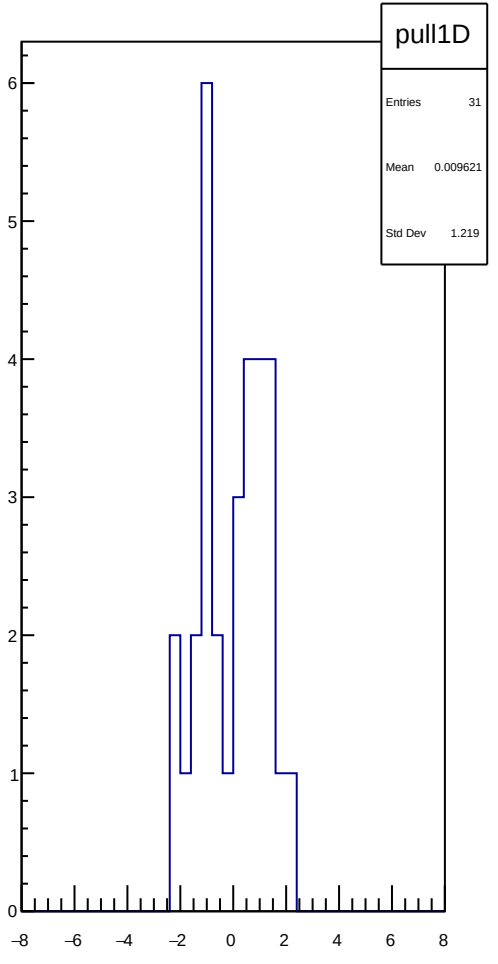

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.73 / 30
p0 0.3206 ± 0.3712
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 378
Std Dev 0
pull1D
Entries 31
Mean 0.008242
Std Dev 0.7772

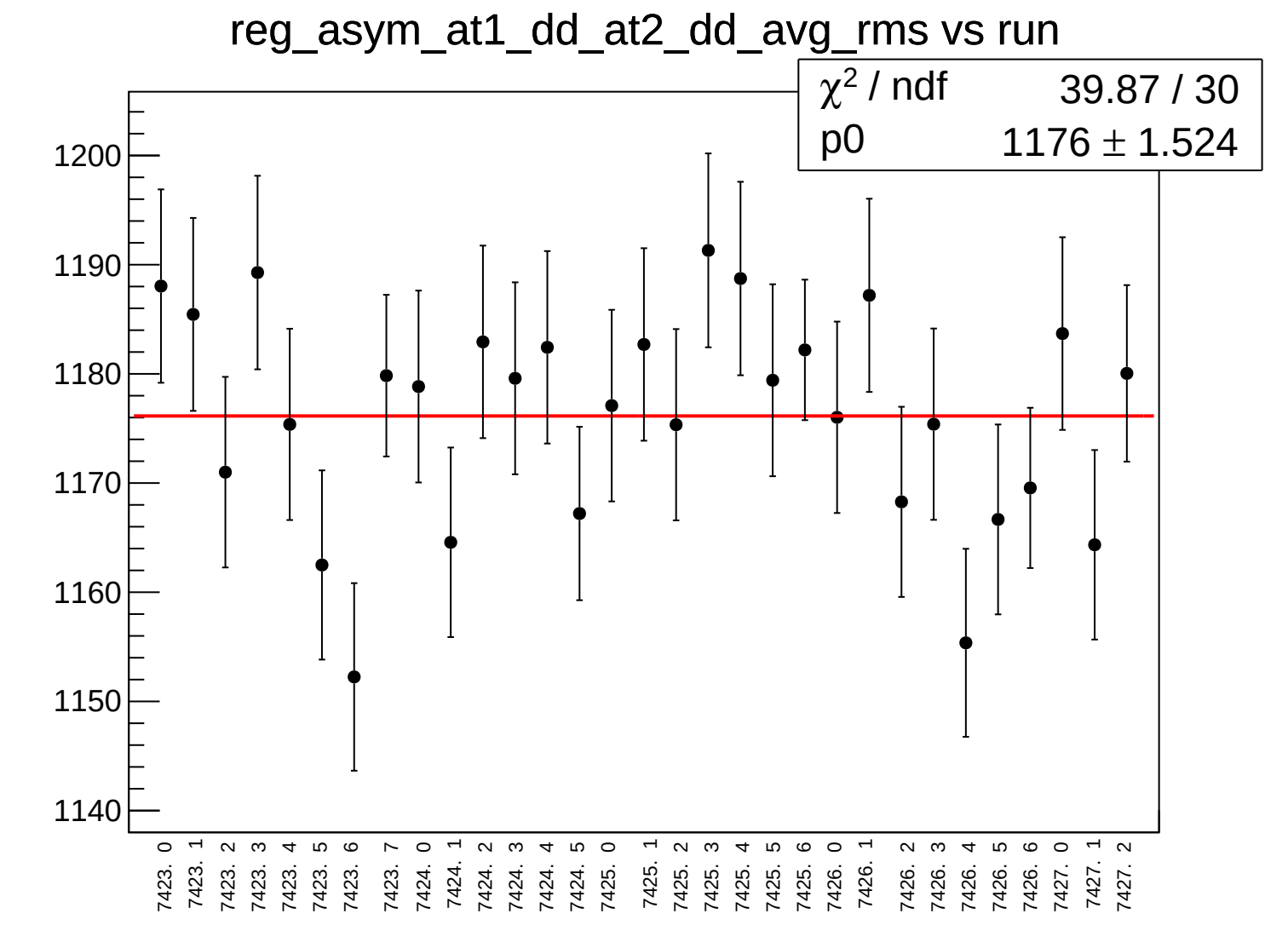

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6103 / 30
p0 201.5 ± 0.2625
260
240
220
200
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

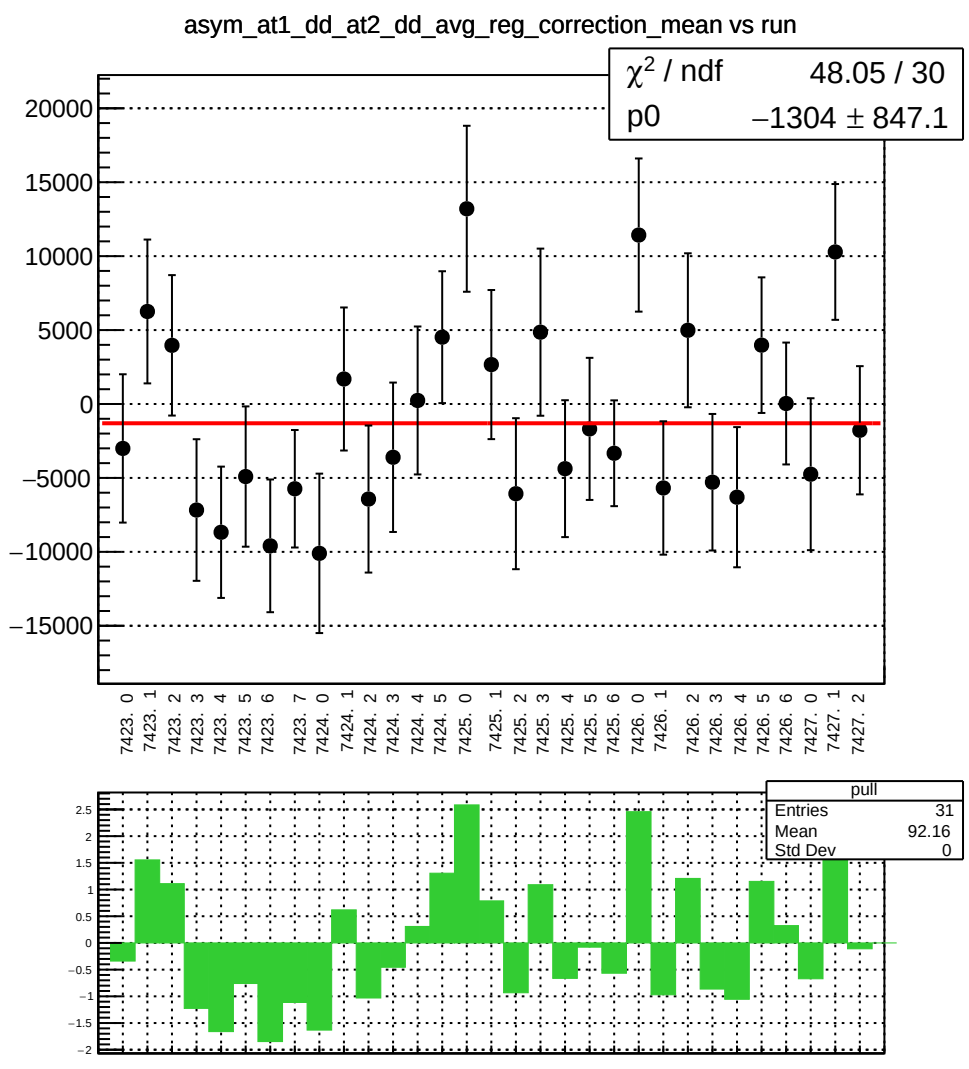

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.57 / 30
p0 −5.23e−15 ± 9.819e−15
0.6
0.4
0.2
0
−0.2
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 171.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.009378
Std Dev 1.158
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

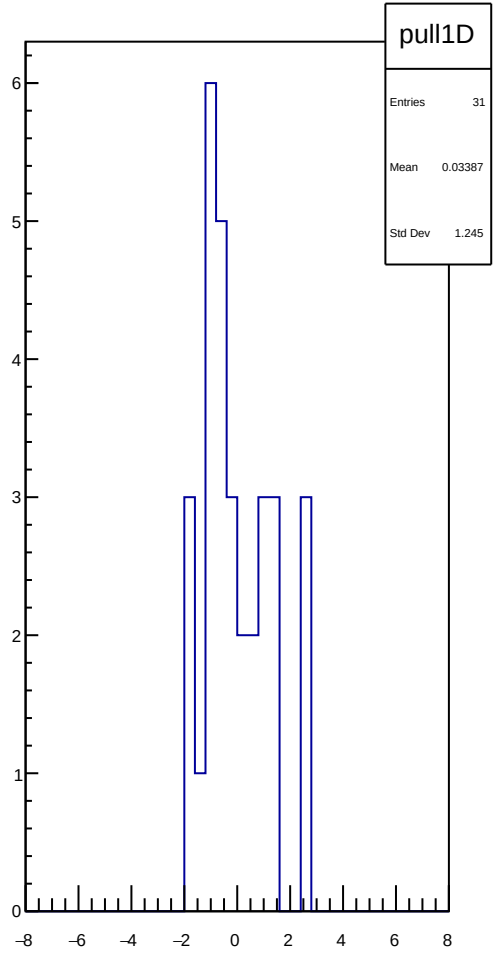

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.522e+05 / 30
p0 4.623e−12 ± 6.943e−15
22
20
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

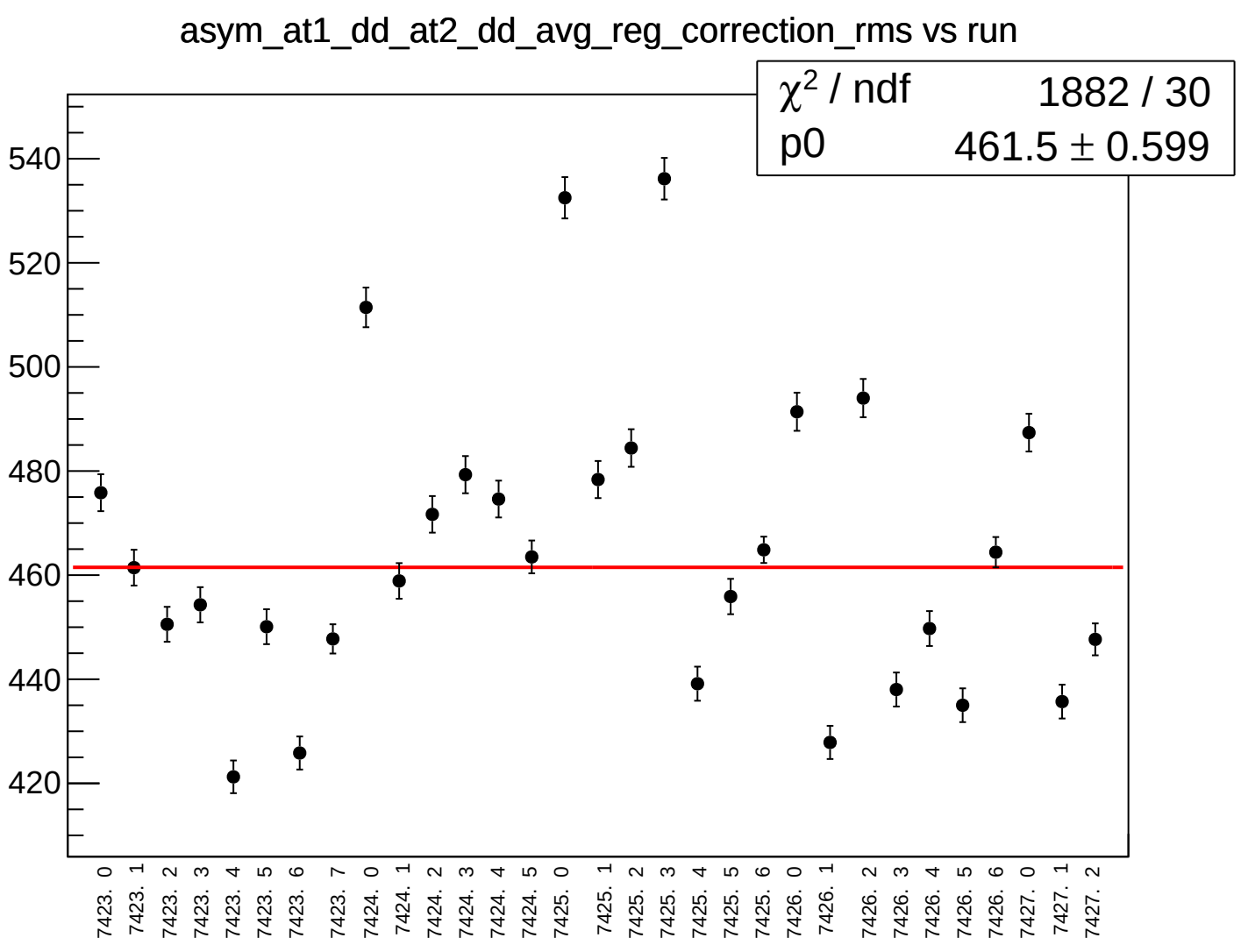

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 46.04 / 30
p0 550.3 ± 2156
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −61.12
Std Dev 0
2
1
0
−1
−2

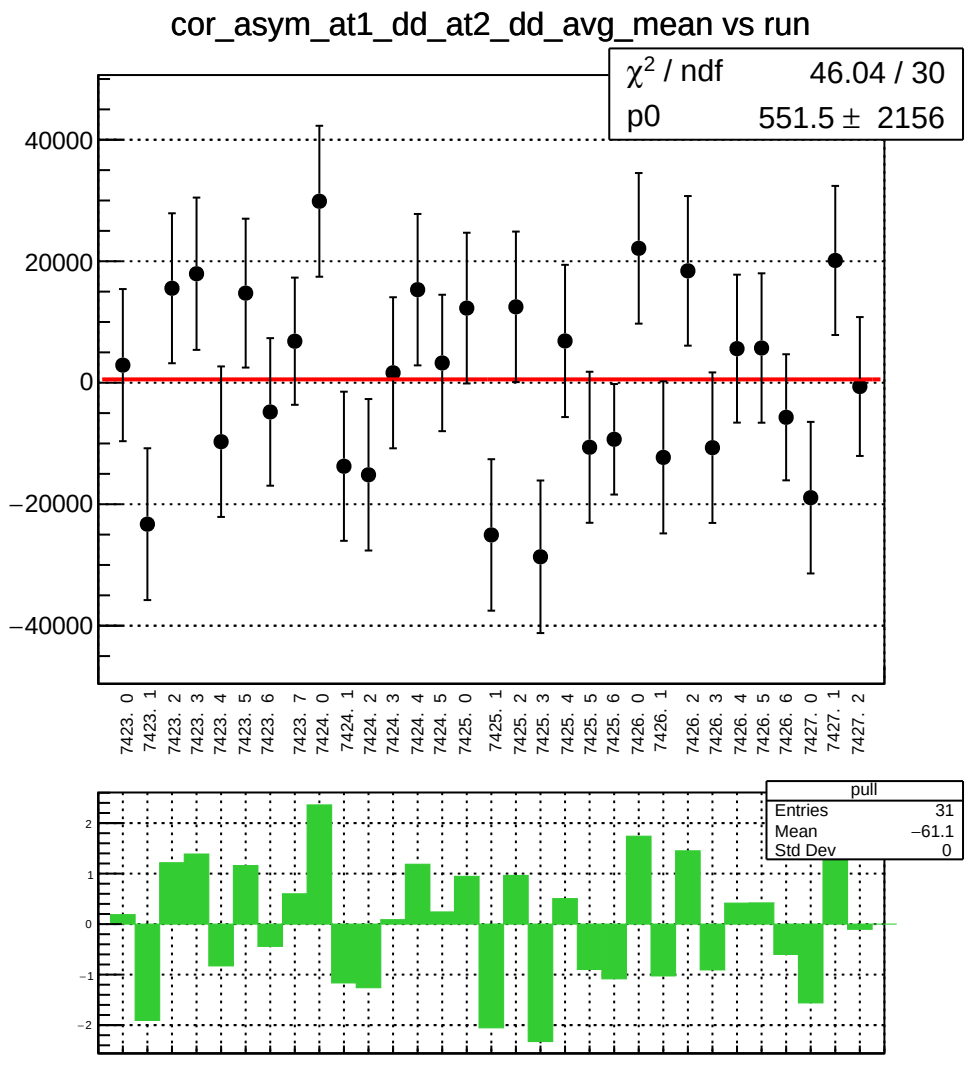

pull1D
Entries 31
Mean 0.009621
Std Dev 1.219
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

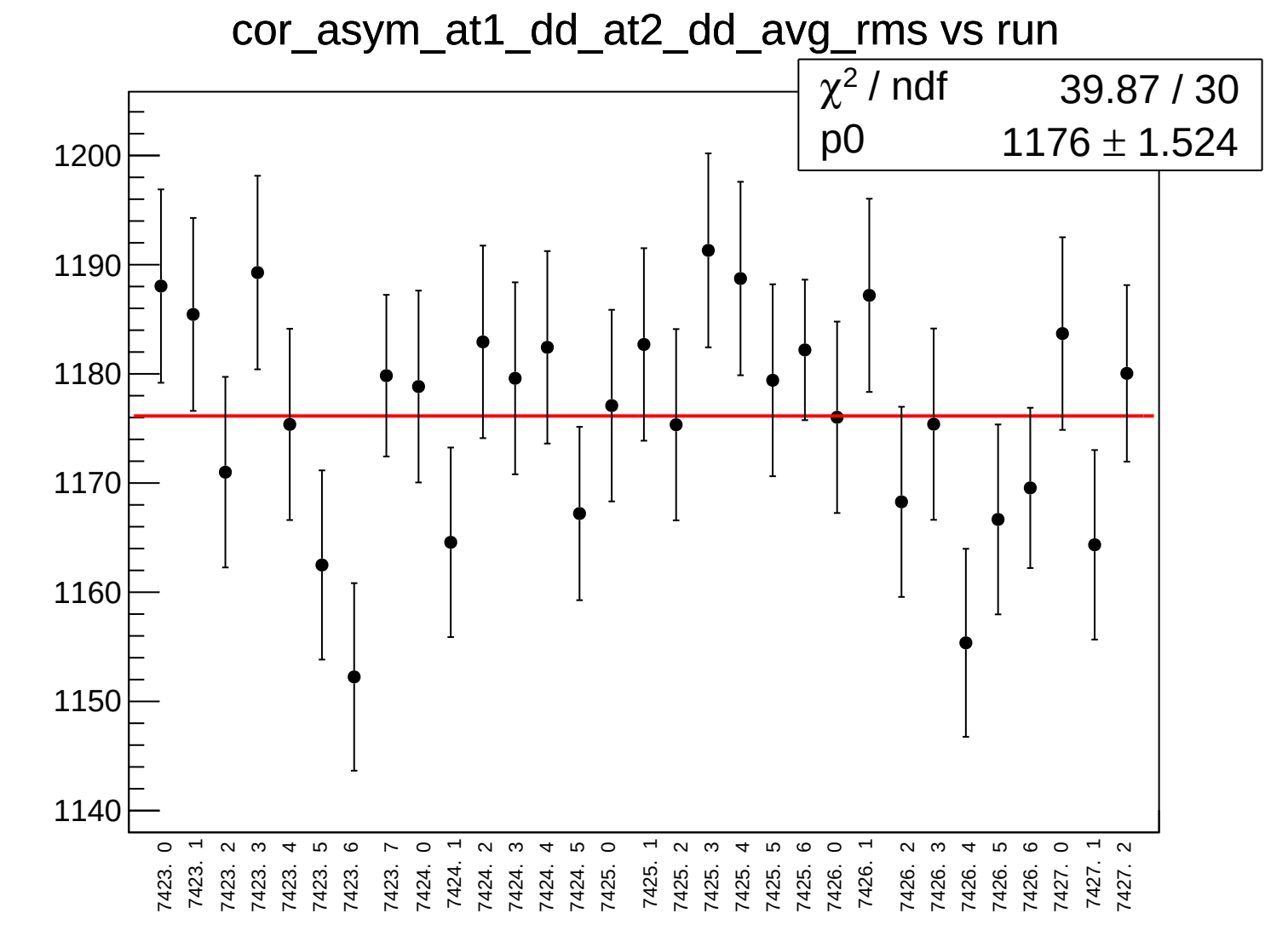

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 39.87 / 30
p0 1176 ± 1.524
1200
1190
1180
1170
1160
1150
1140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

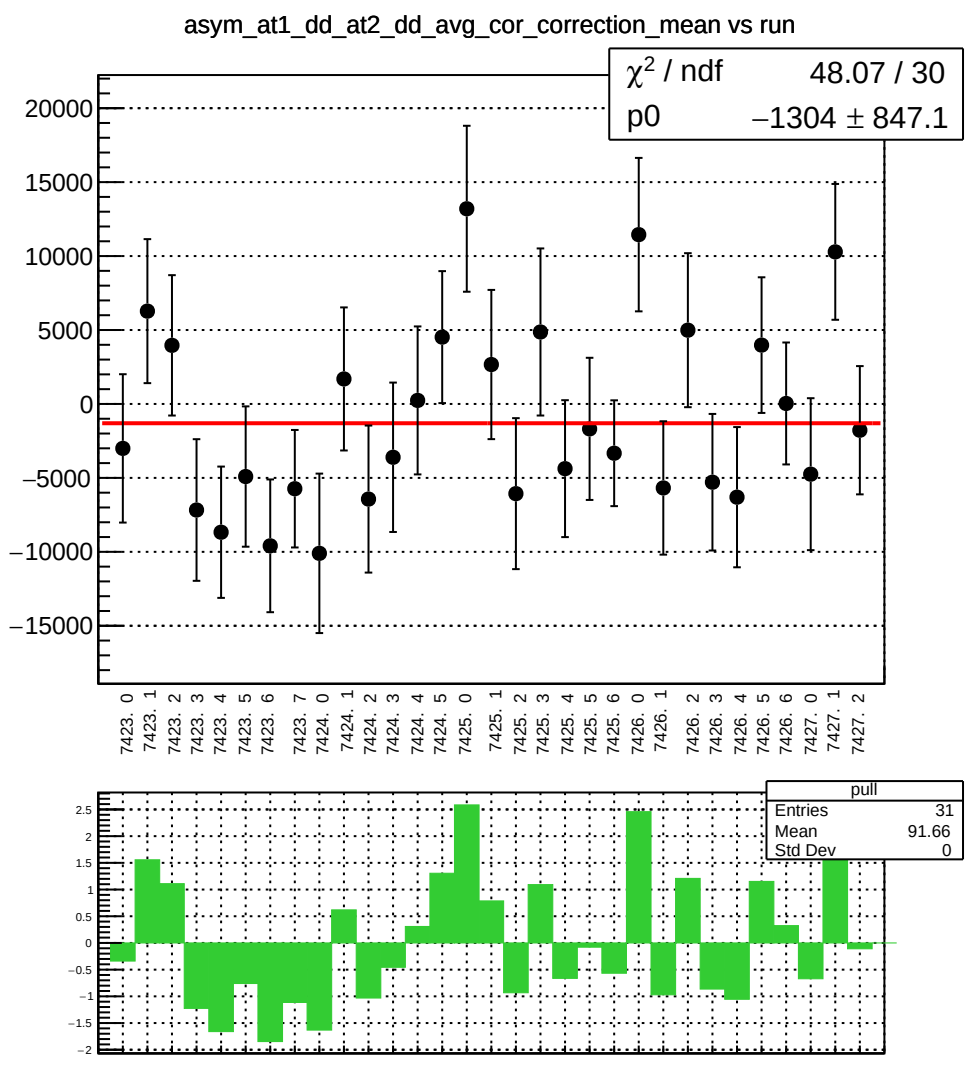

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 48.05 / 30
p0 −1304 ± 847.1
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 92.16
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

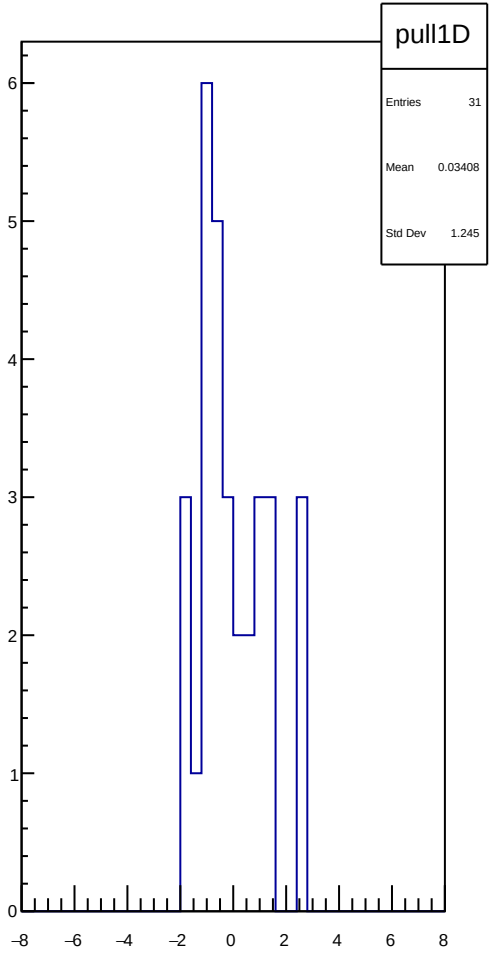

pull1D
Entries 31
Mean 0.03387
Std Dev 1.245
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

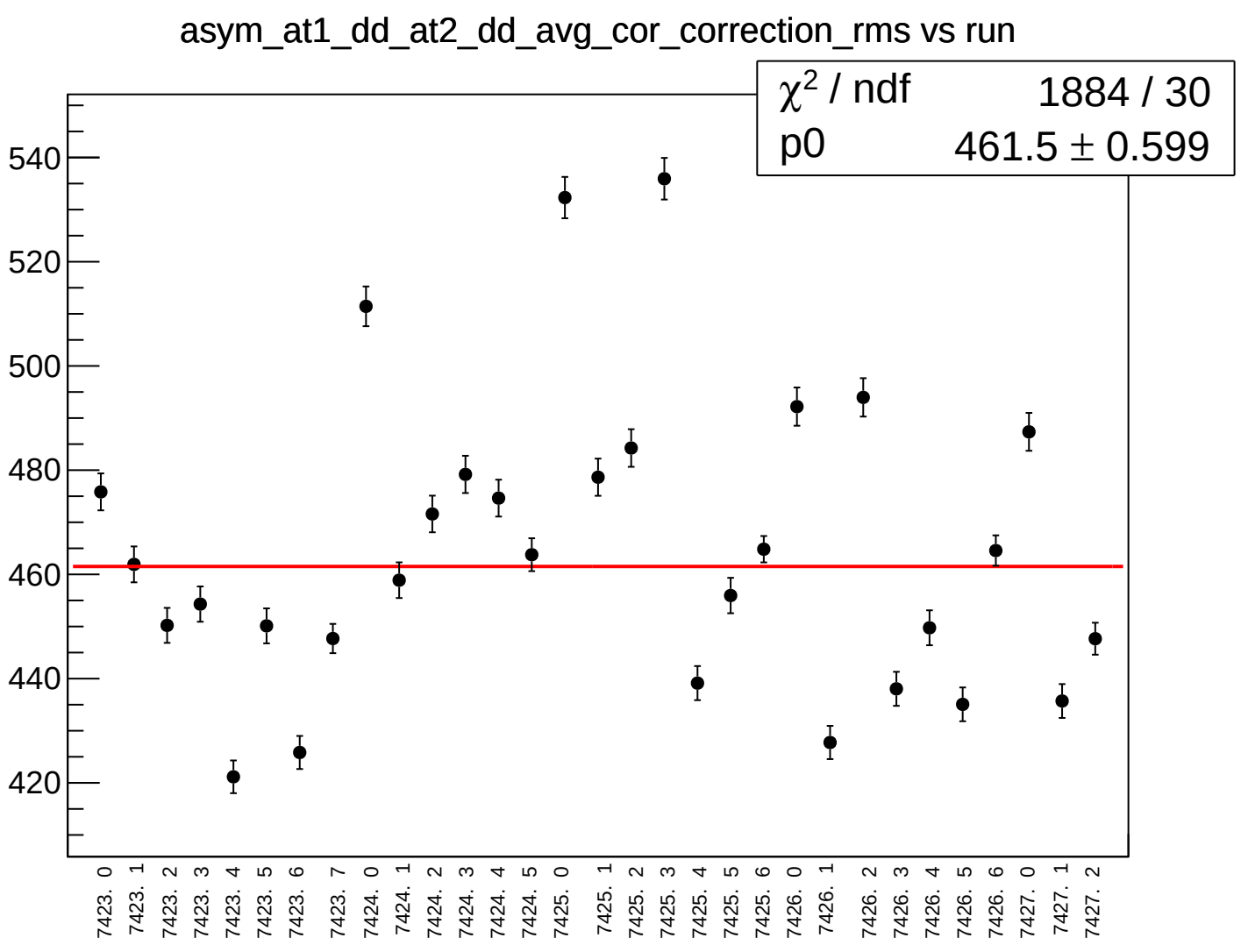

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1882 / 30
p0 461.5 ± 0.599
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

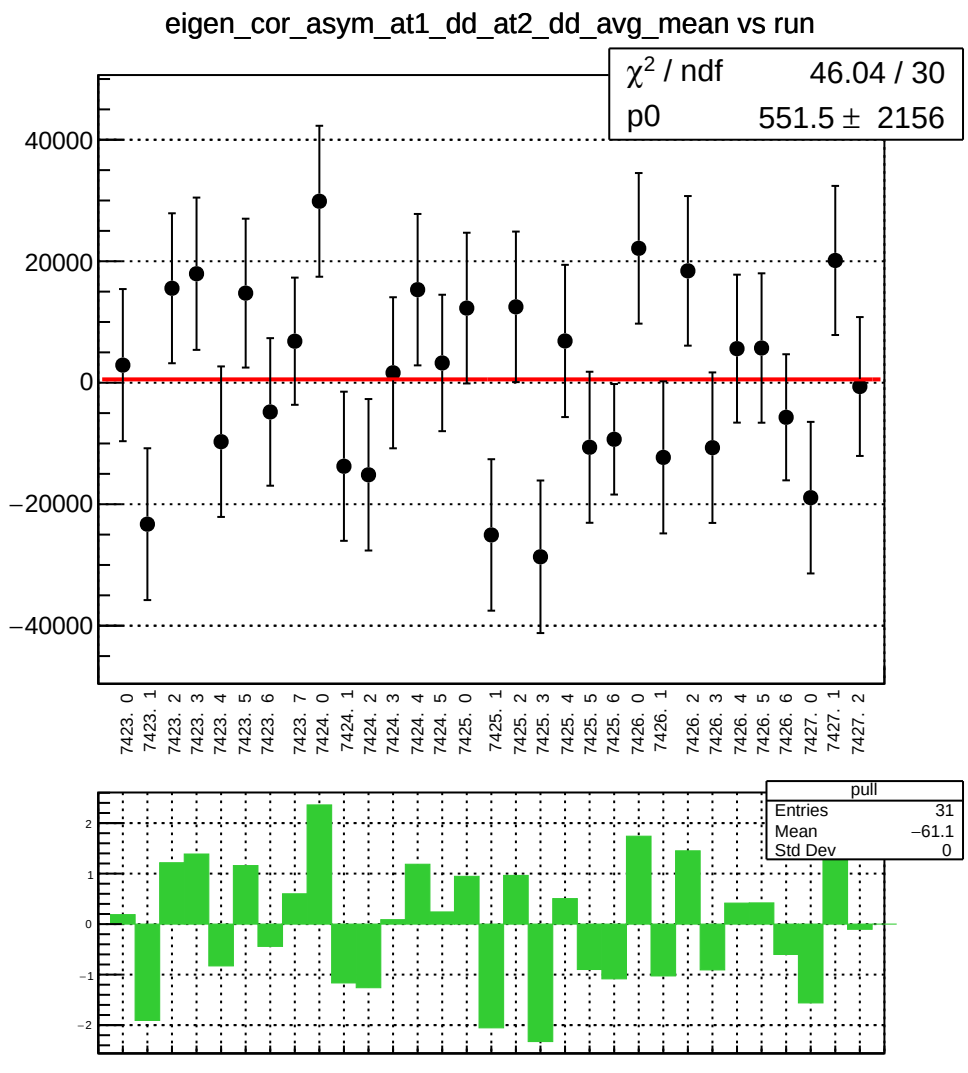

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 46.04 / 30
p0 551.5 ± 2156
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −61.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.009625
Std Dev 1.219
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

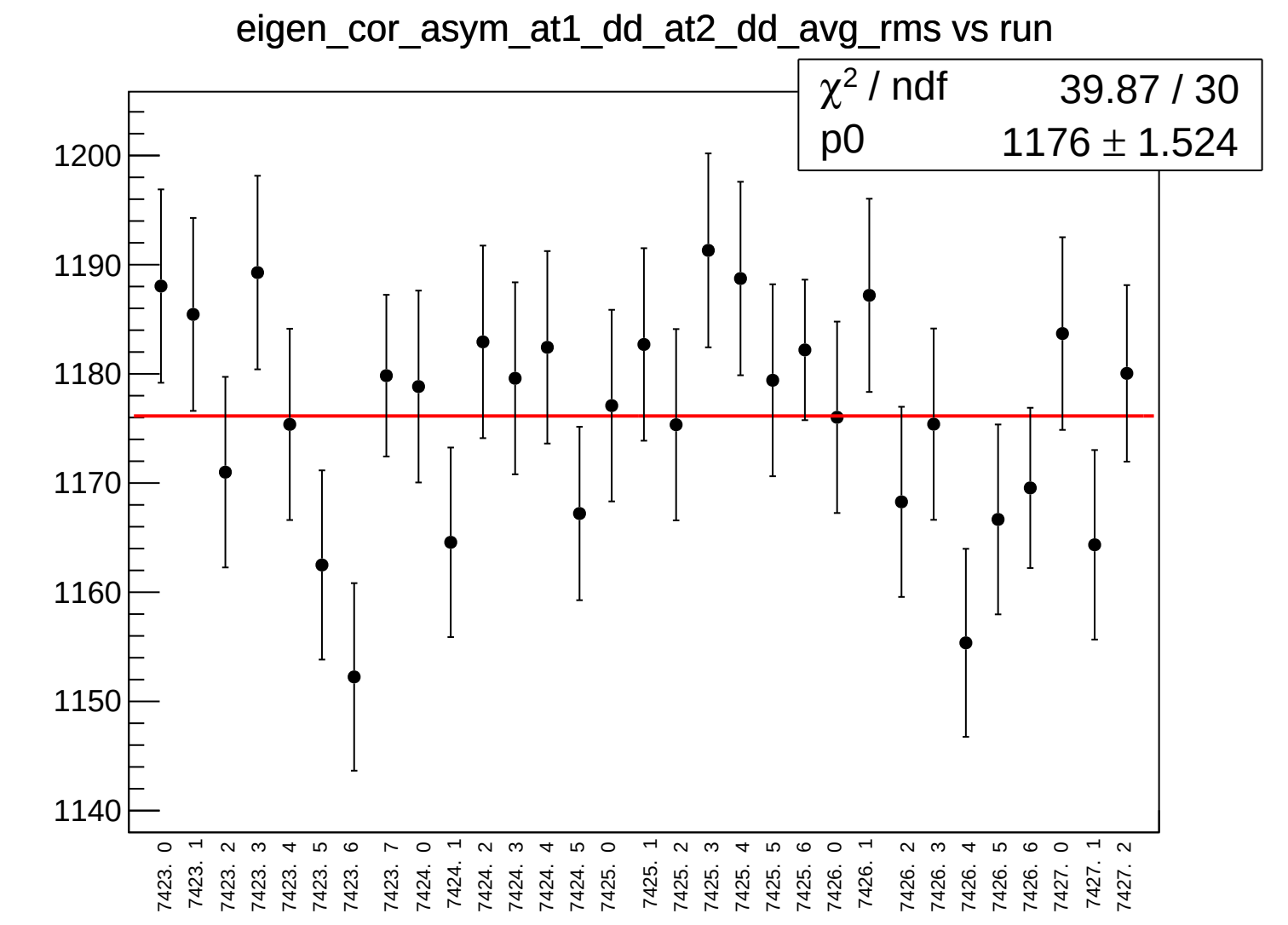

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 39.87 / 30
p0 1176 ± 1.524
1200
1190
1180
1170
1160
1150
1140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

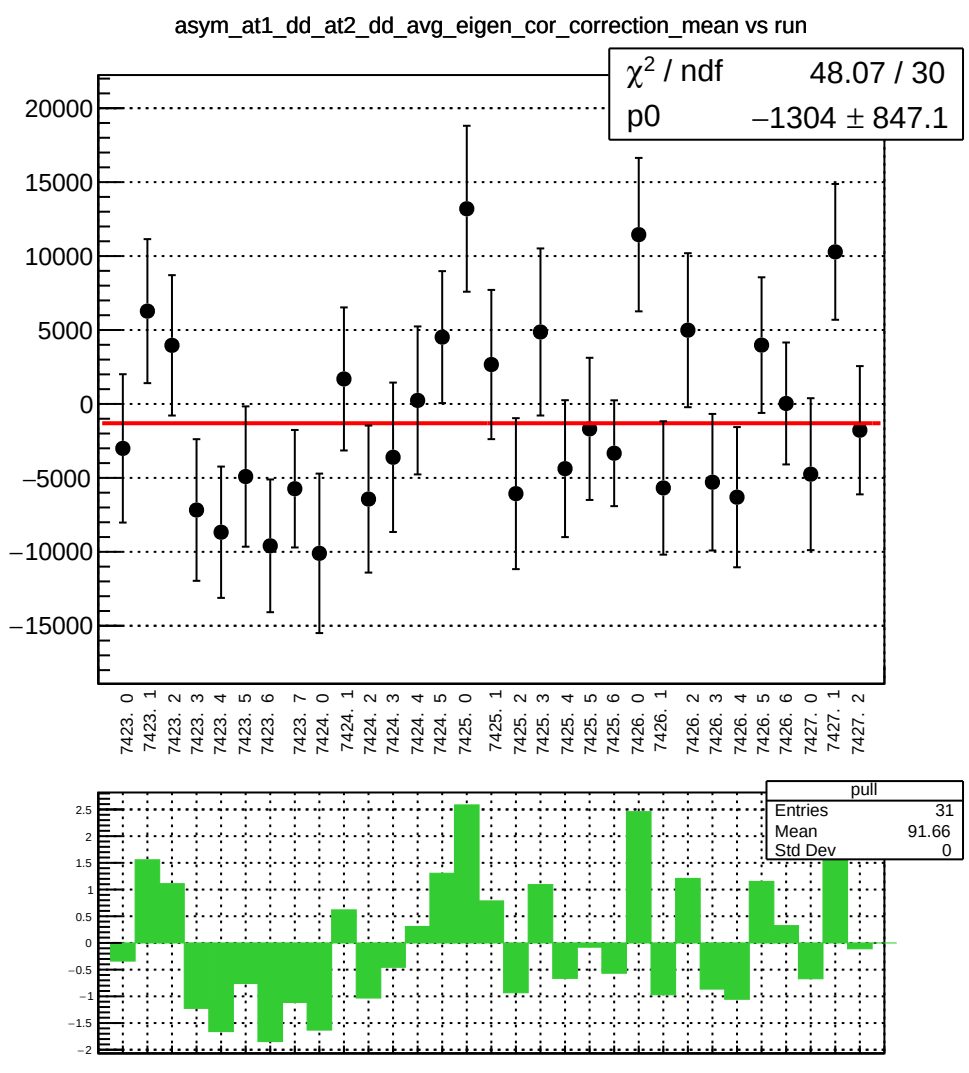

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 48.07 / 30
p0 −1304 ± 847.1
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 91.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

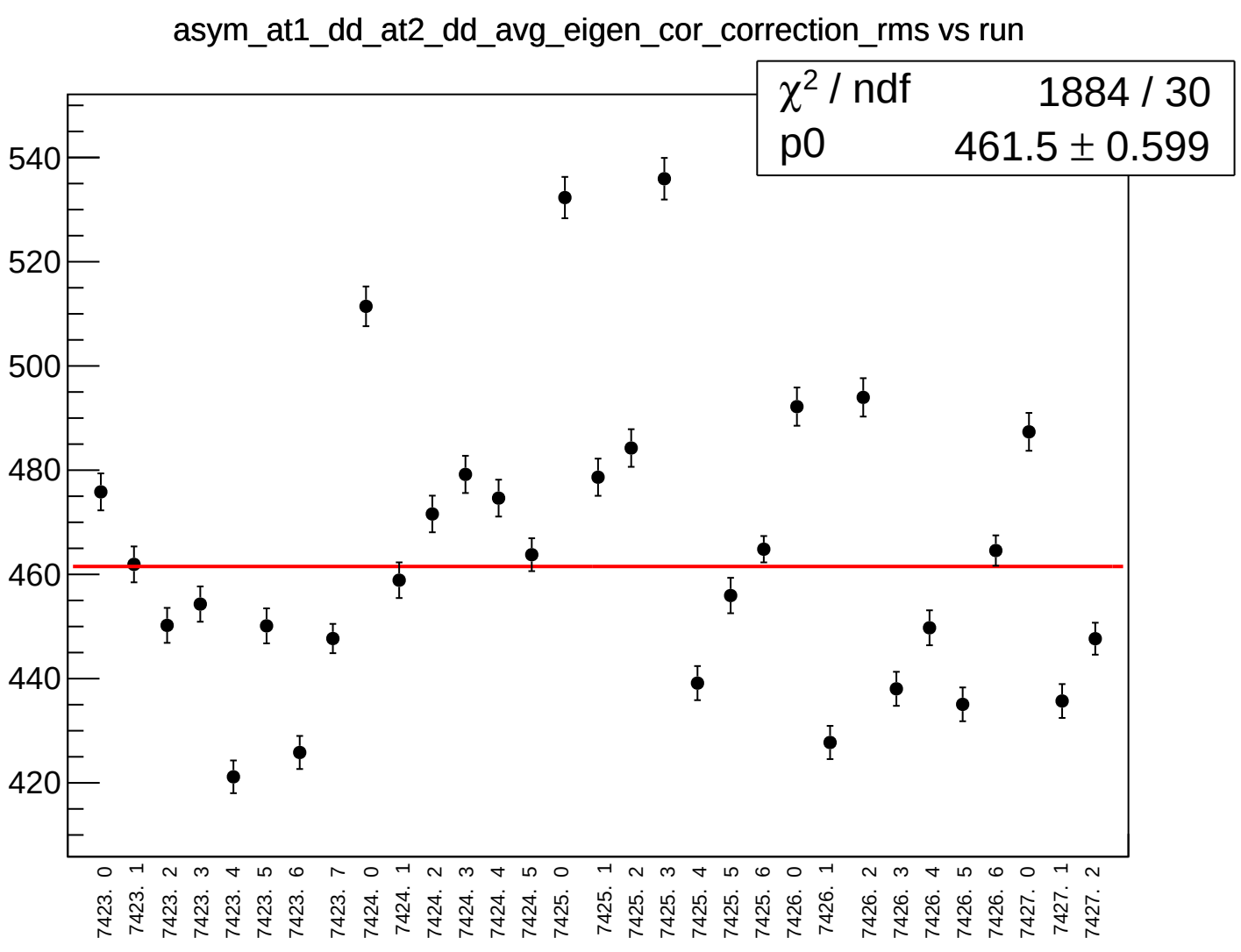

pull1D
Entries 31
Mean 0.03408
Std Dev 1.245
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

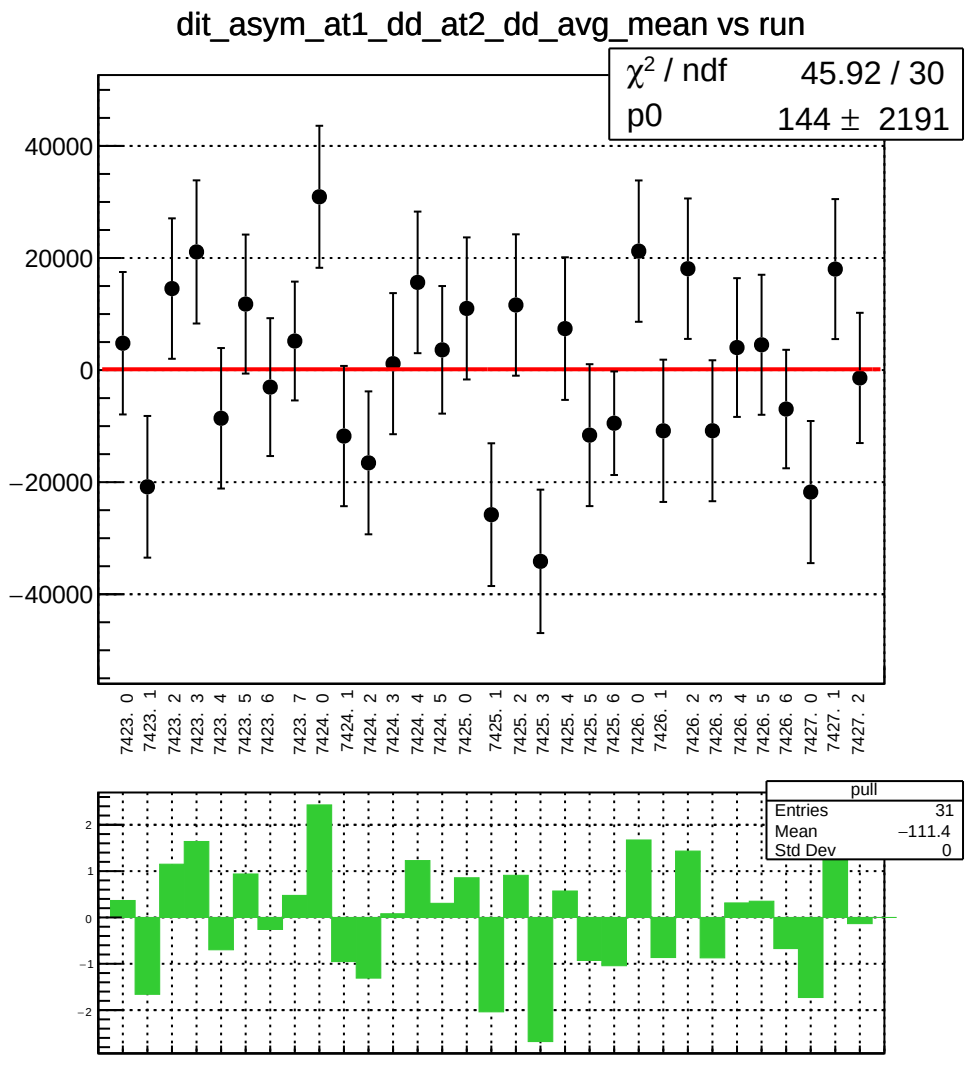

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1884 / 30
p0 461.5 ± 0.599
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

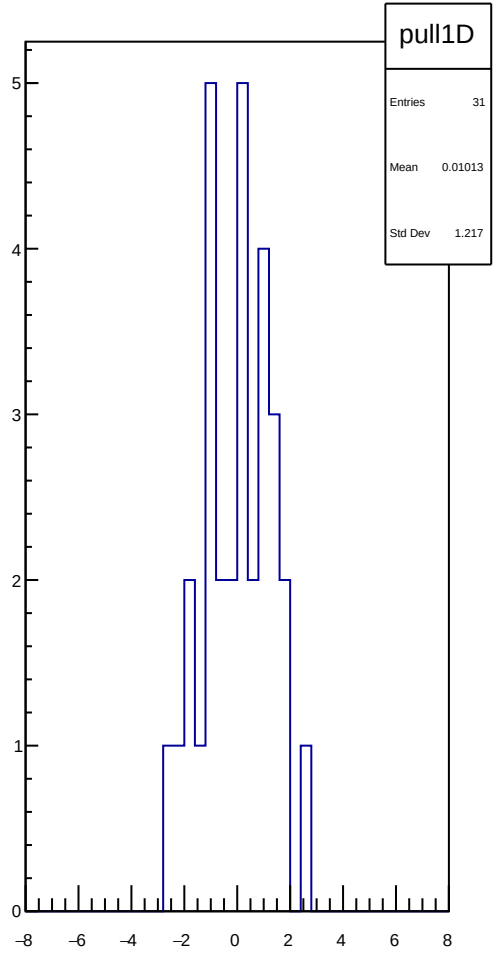

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 46.04 / 30
p0 551.5 ± 2156
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −61.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.009625
Std Dev 1.219
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

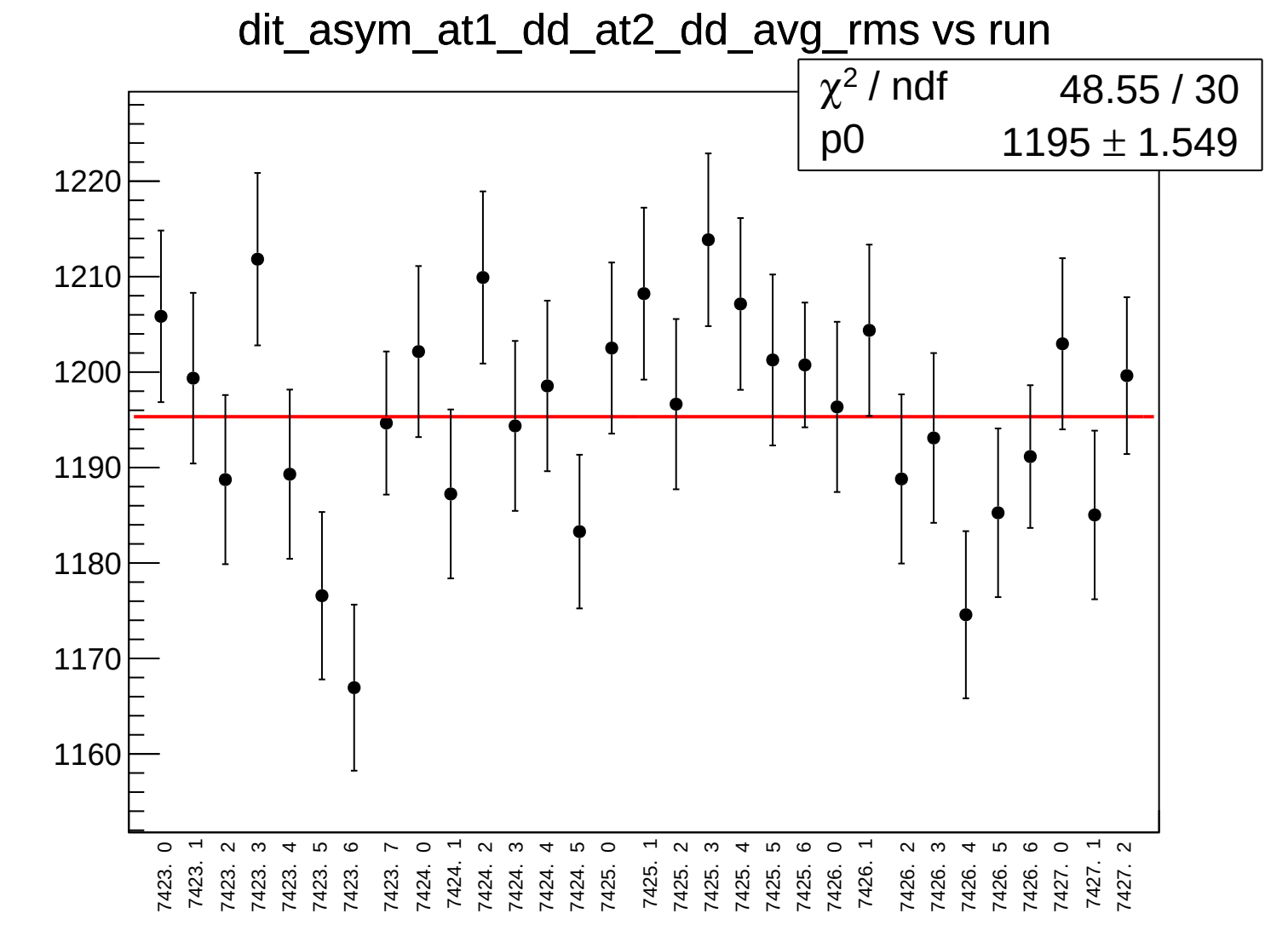

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 39.87 / 30
p0 1176 ± 1.524
1200
1190
1180
1170
1160
1150
1140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

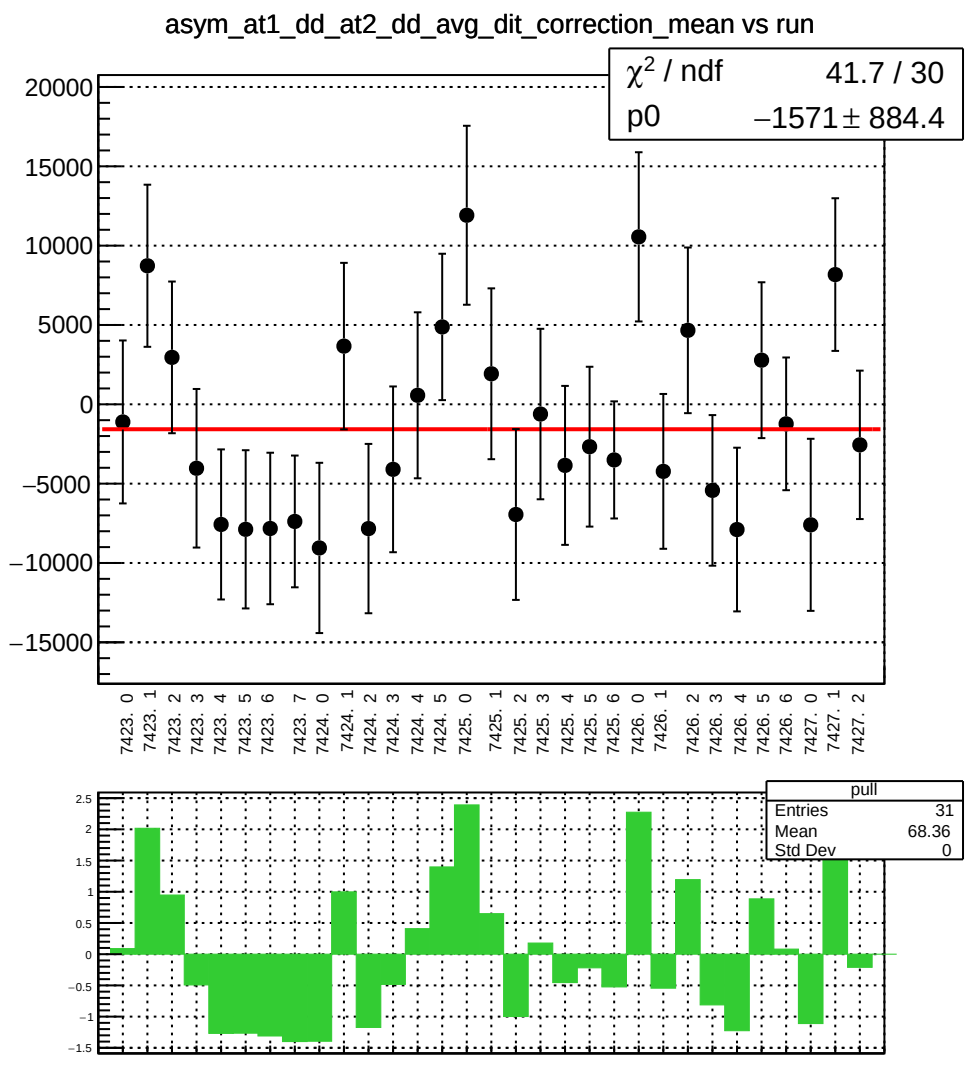

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 48.07 / 30
p0 −1304 ± 847.1
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 91.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.03408
Std Dev 1.245
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

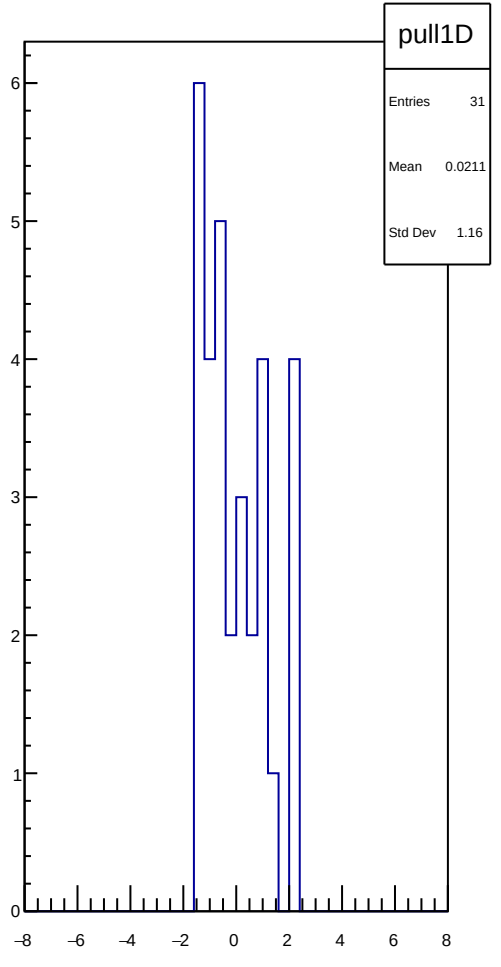

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1884 / 30
p0 461.5 ± 0.599
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

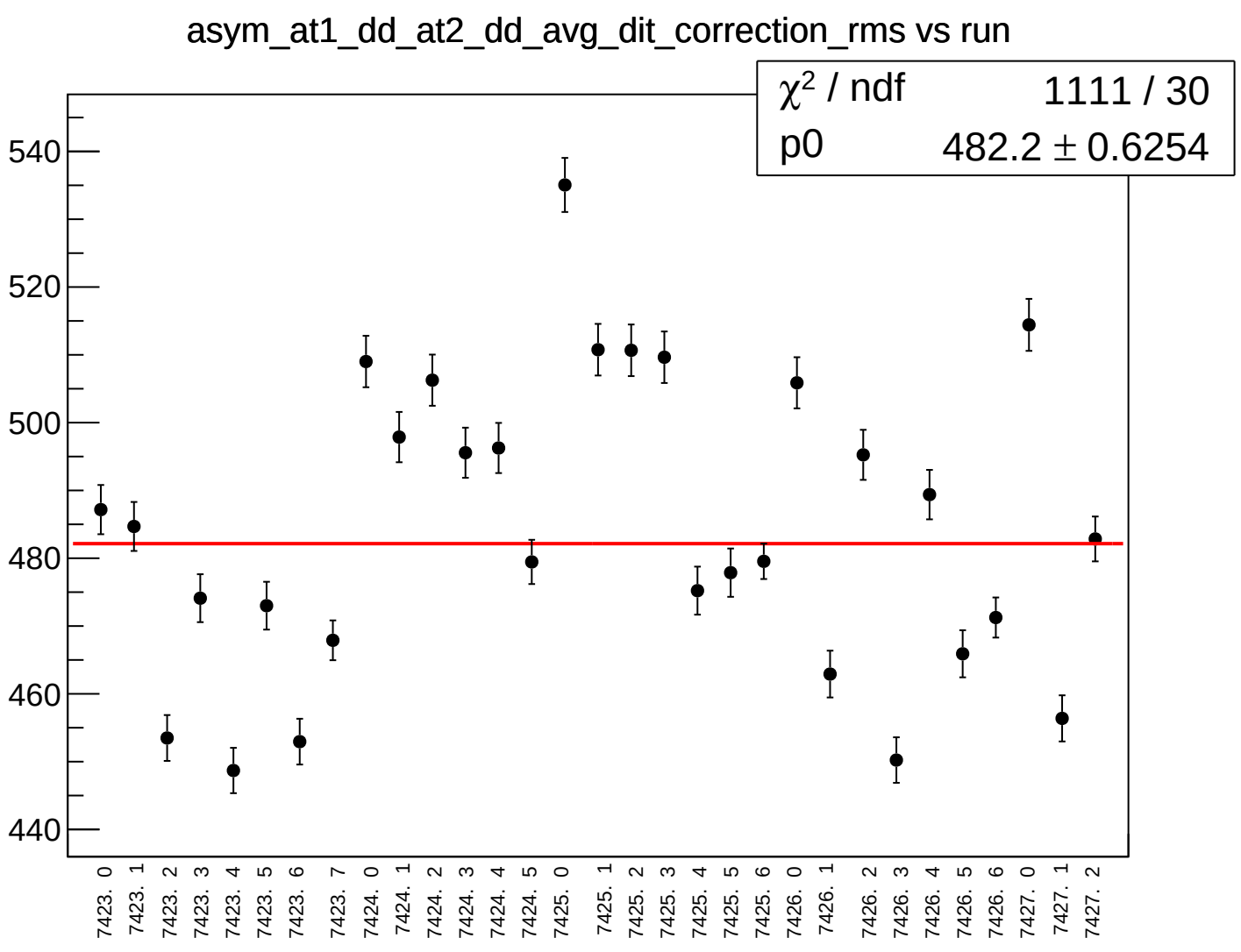

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 45.92 / 30
p0 144 ± 2191
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −111.4
Std Dev 0
2
1
0
−1
−2

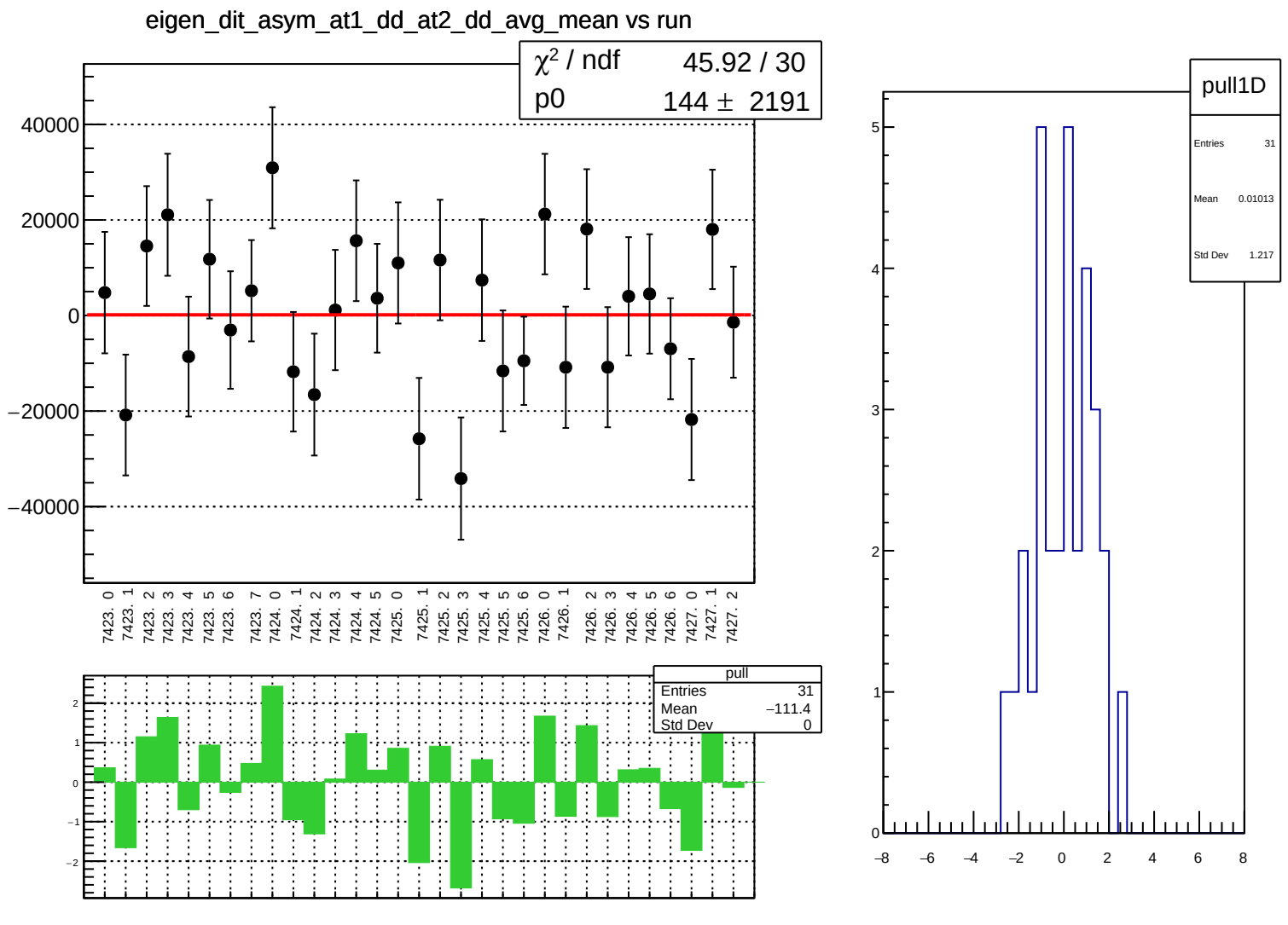

pull1D
Entries 31
Mean 0.01013
Std Dev 1.217
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

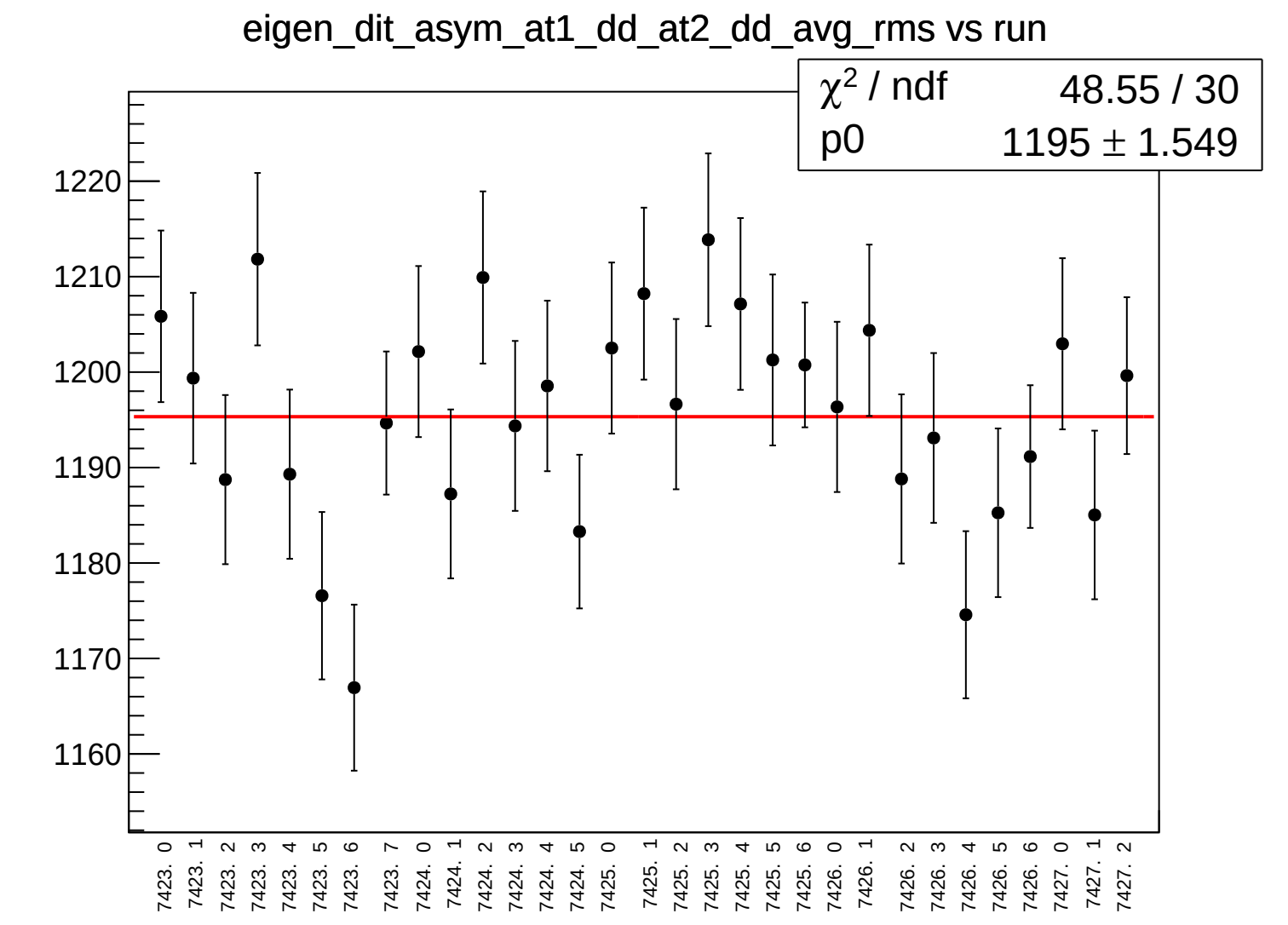

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 48.55 / 30
p0 1195 ± 1.549
1220
1210
1200
1190
1180
1170
1160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

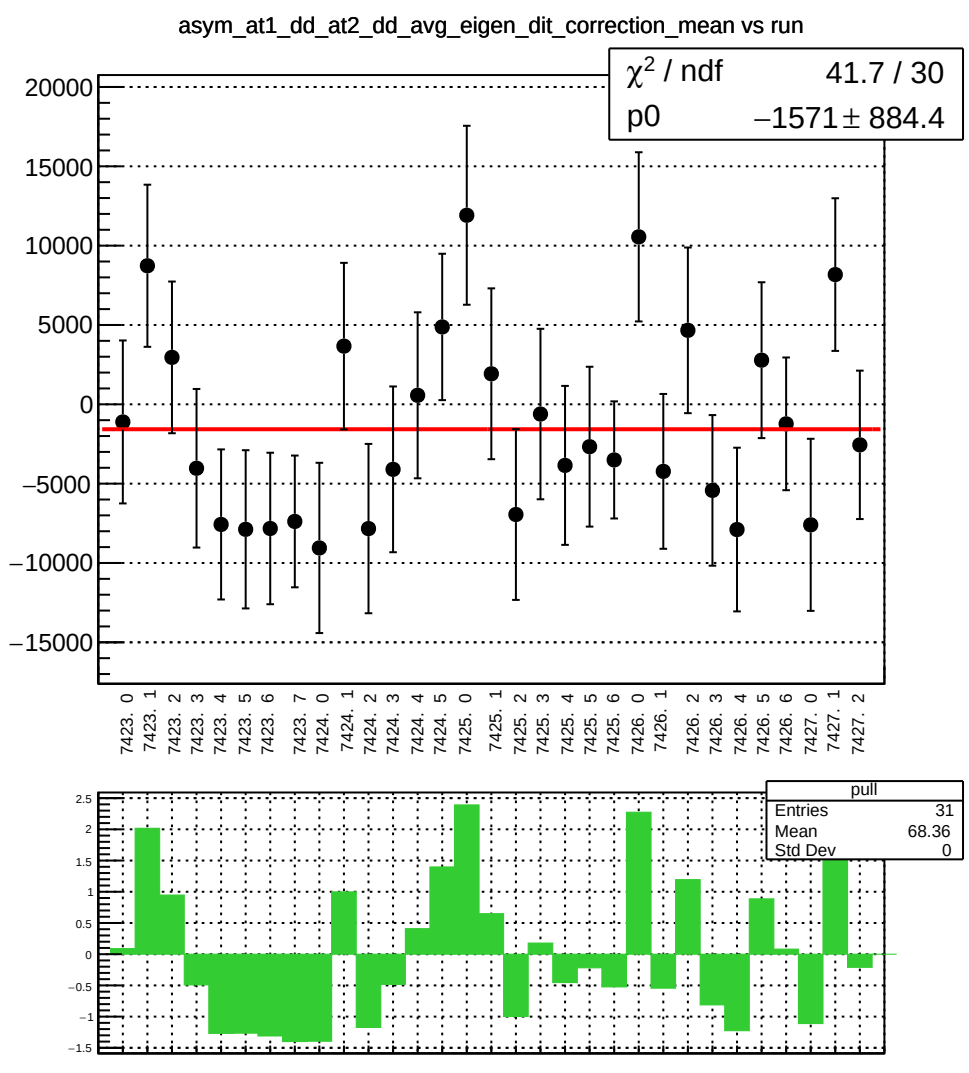

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 41.7 / 30
p0 −1571 ± 884.4
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

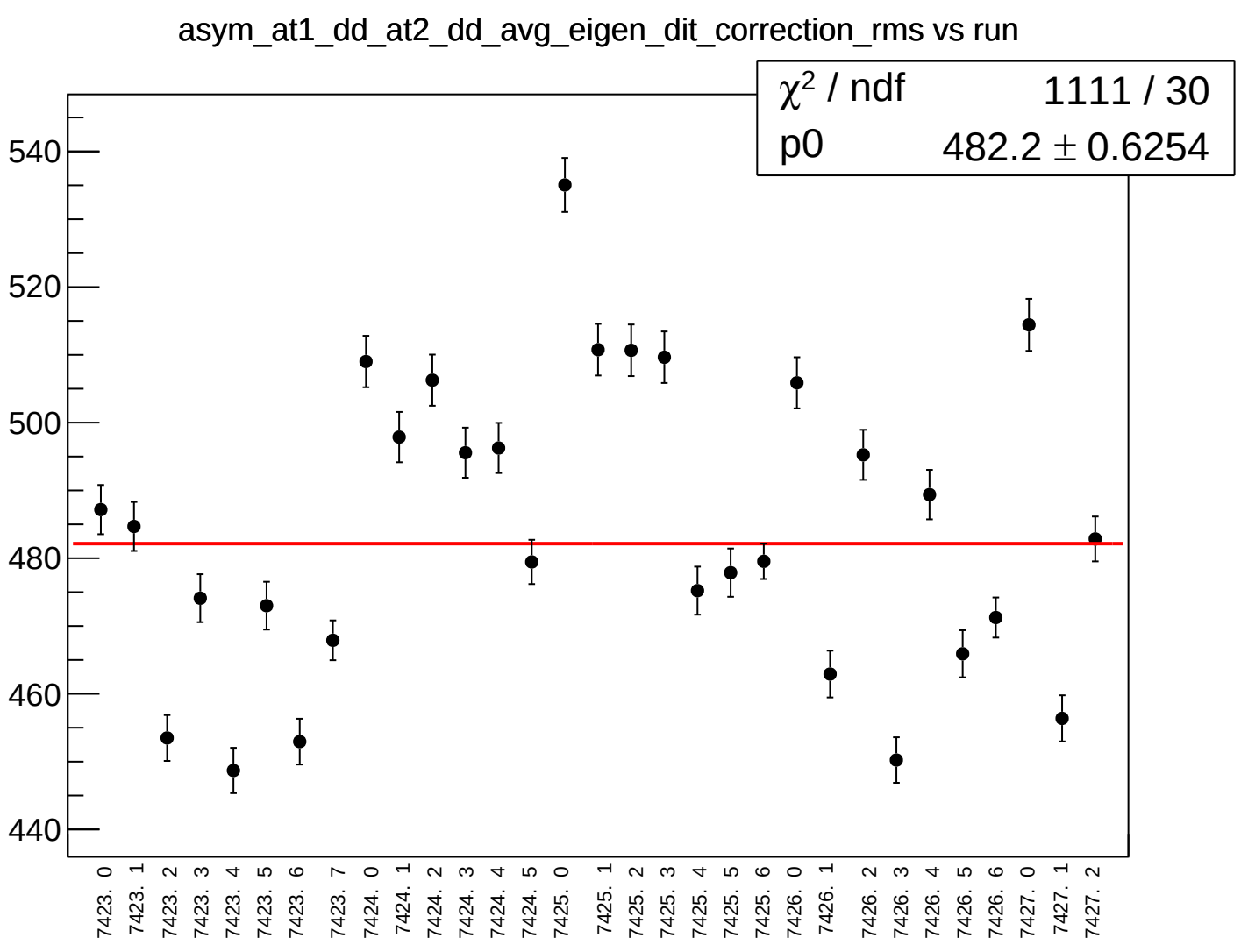

pull1D
Entries 31
Mean 0.0211
Std Dev 1.16
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

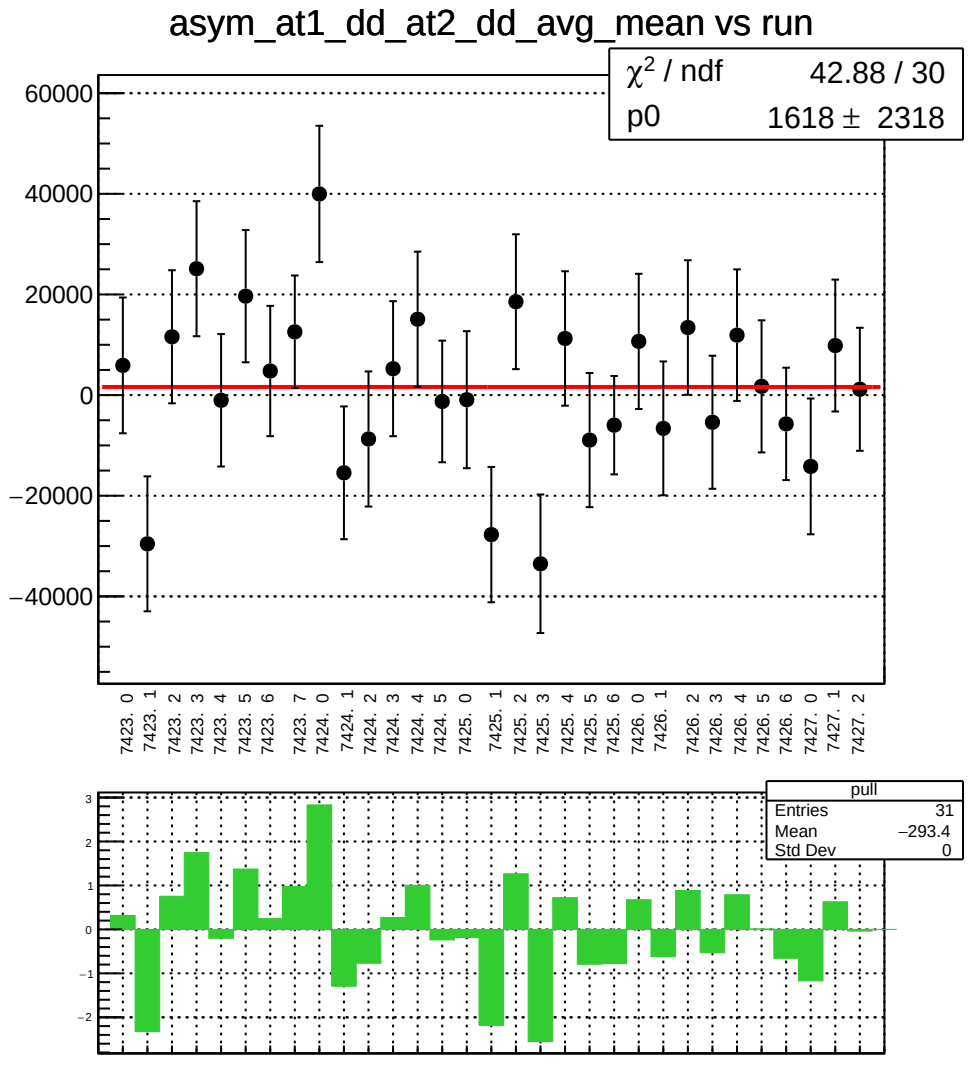

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1111 / 30
p0 482.2 ± 0.6254
540
520
500
480
460
440
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

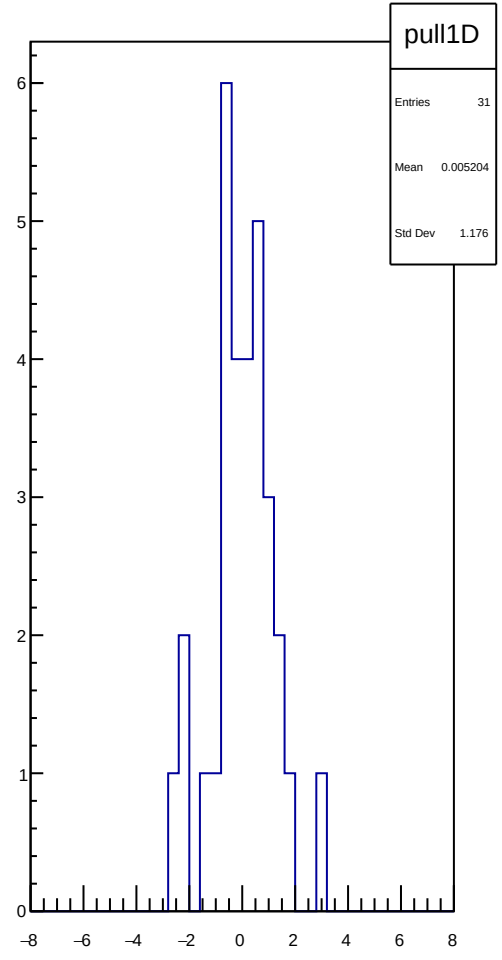

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 45.92 / 30
p0 144 ± 2191
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −111.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.01013
Std Dev 1.217
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

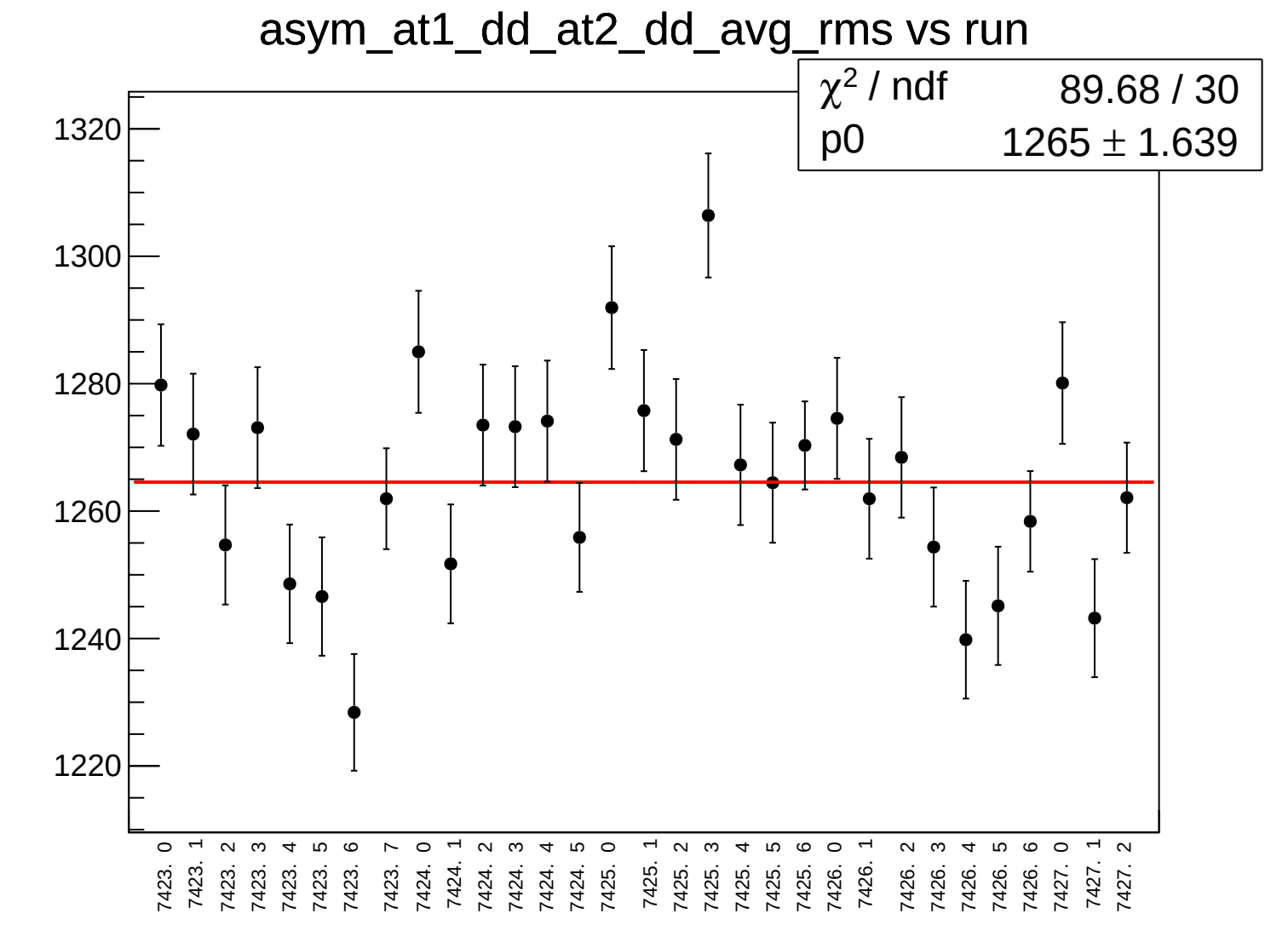

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 48.55 / 30
p0 1195 ± 1.549
1220
1210
1200
1190
1180
1170
1160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

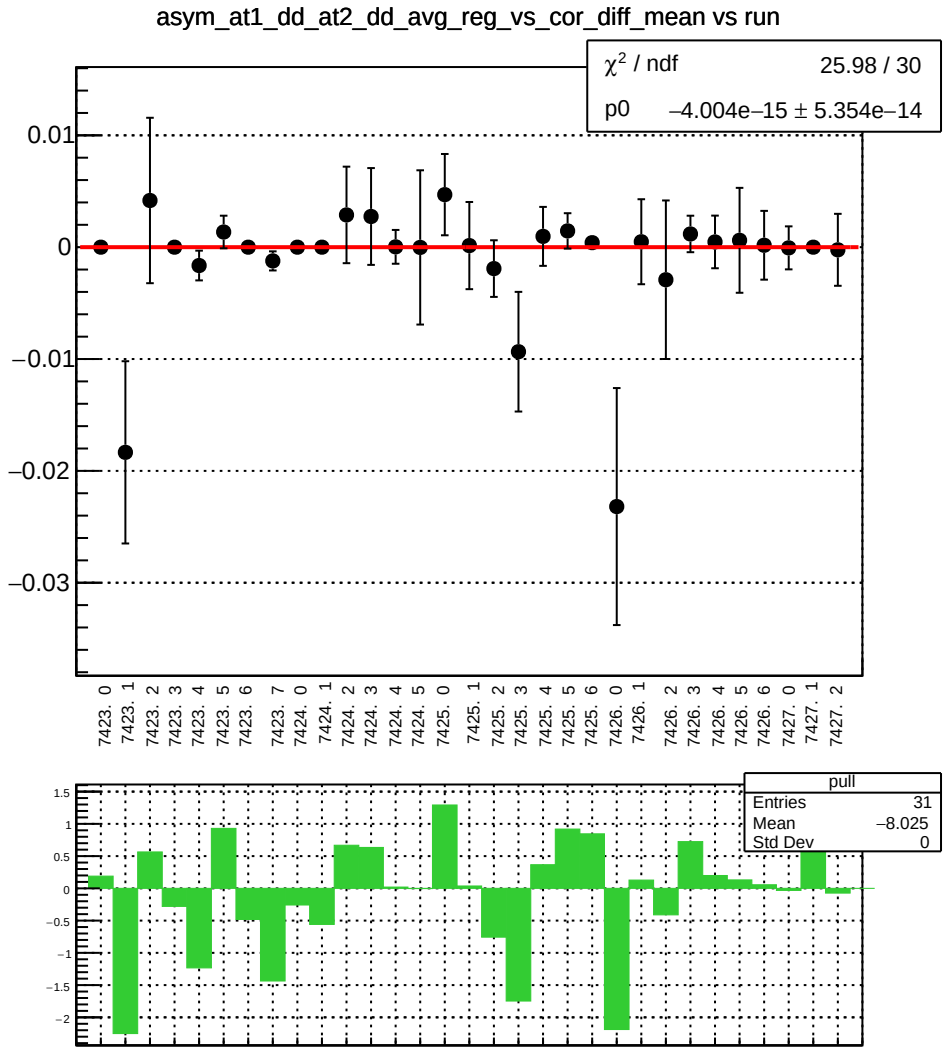

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.7 / 30
p0 −1571 ± 884.4
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.0211
Std Dev 1.16
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

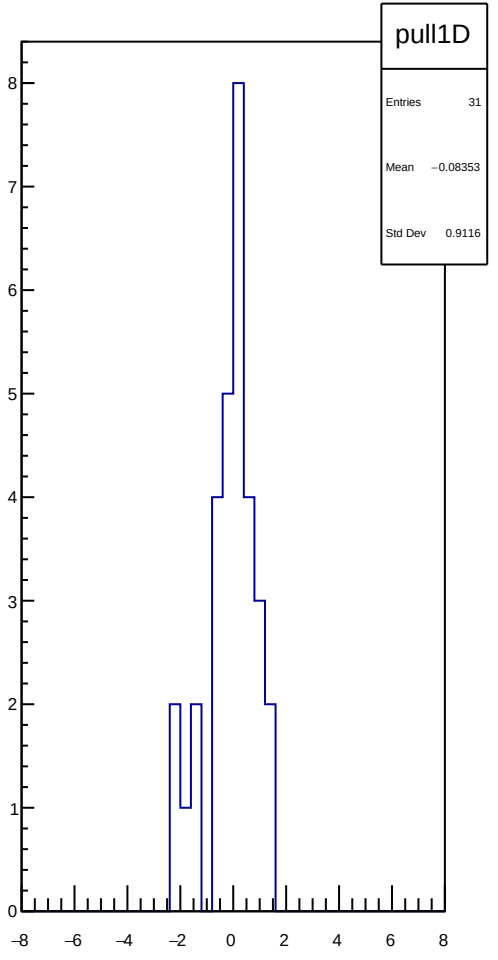

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1111 / 30
p0 482.2 ± 0.6254
540
520
500
480
460
440
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

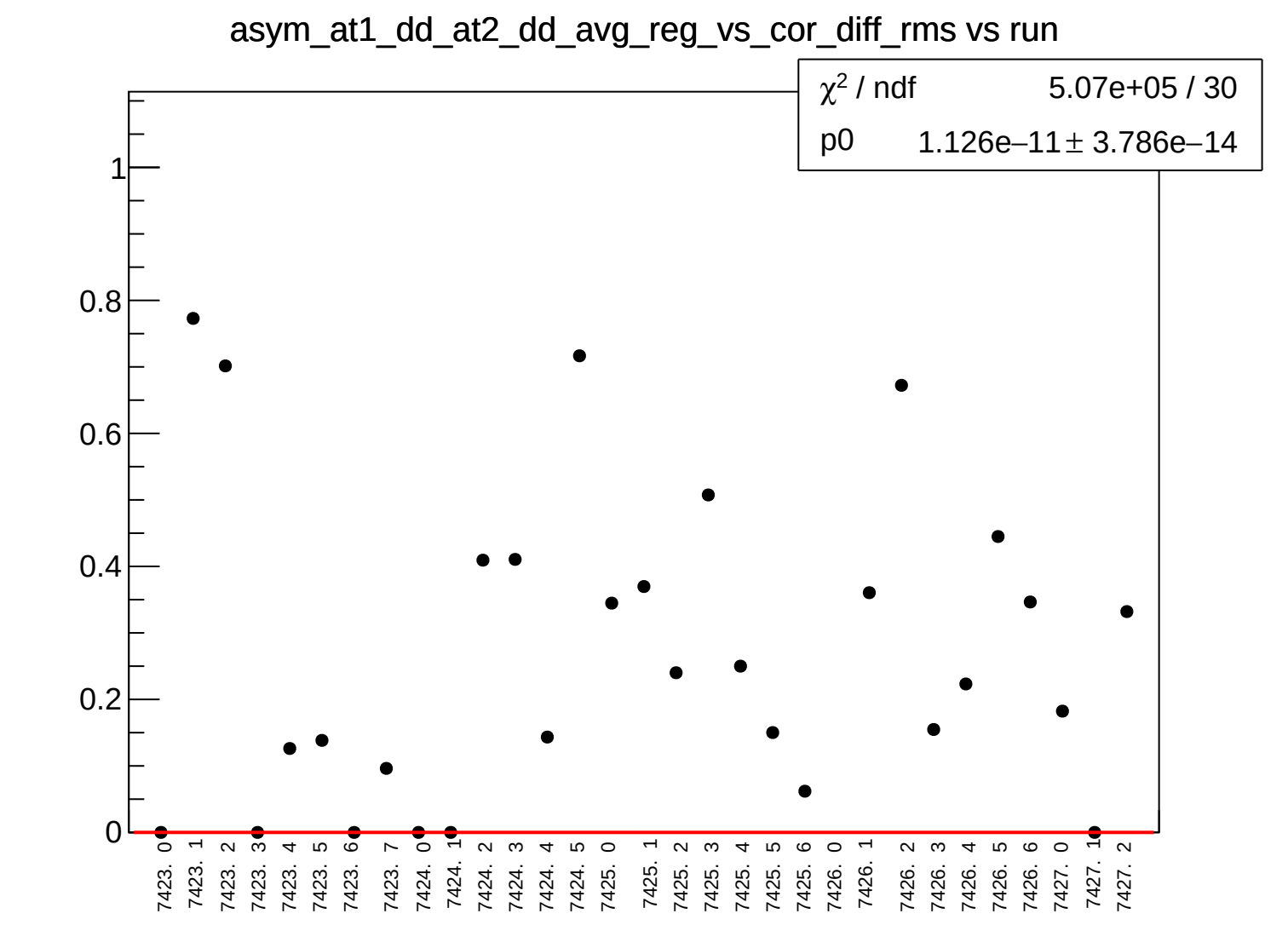

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 42.88 / 30
p0 1618 ± 2318
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −293.4
Std Dev 0
3
2
1
0
−1
−2

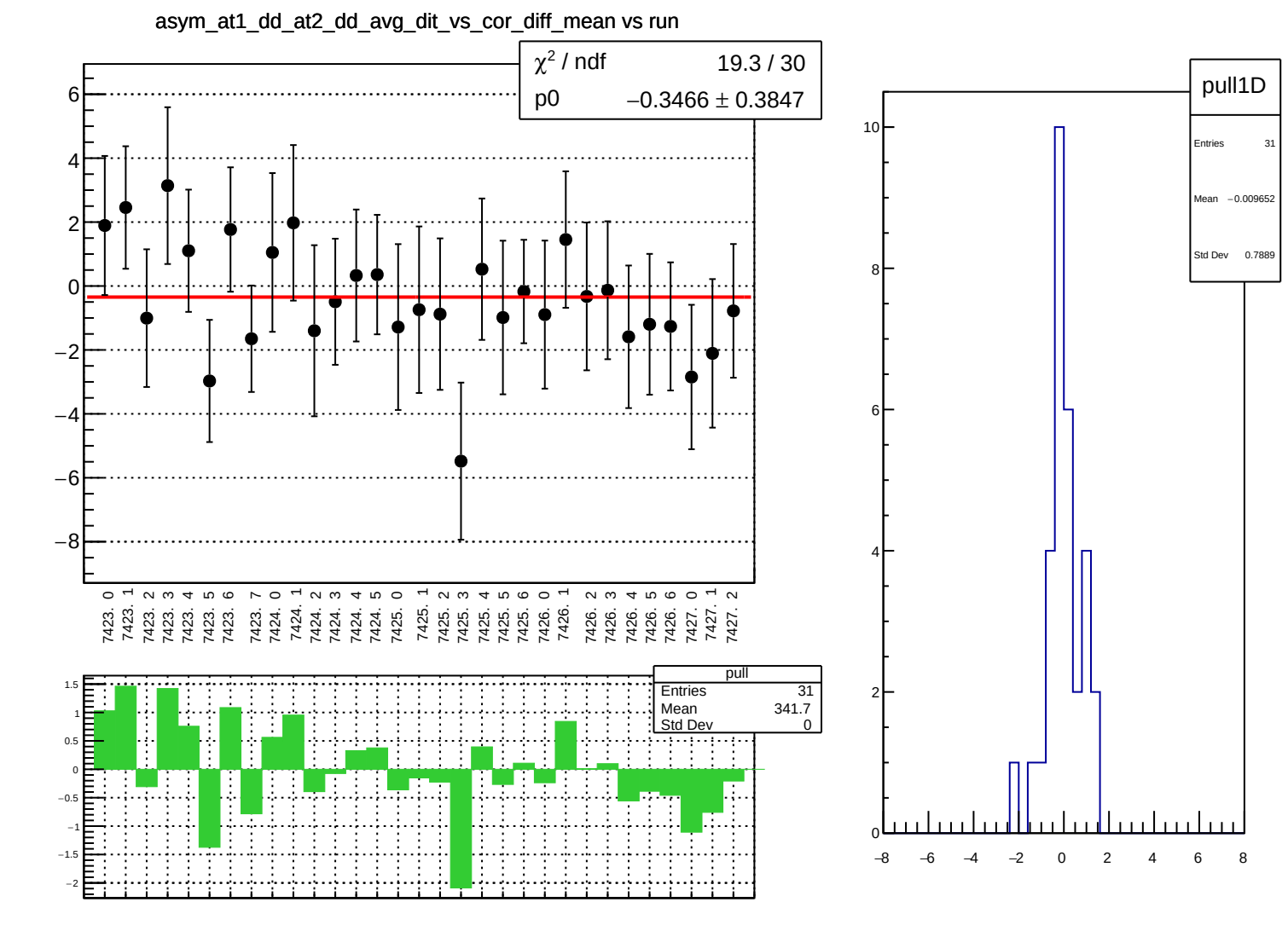

pull1D
Entries 31
Mean 0.005204
Std Dev 1.176
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

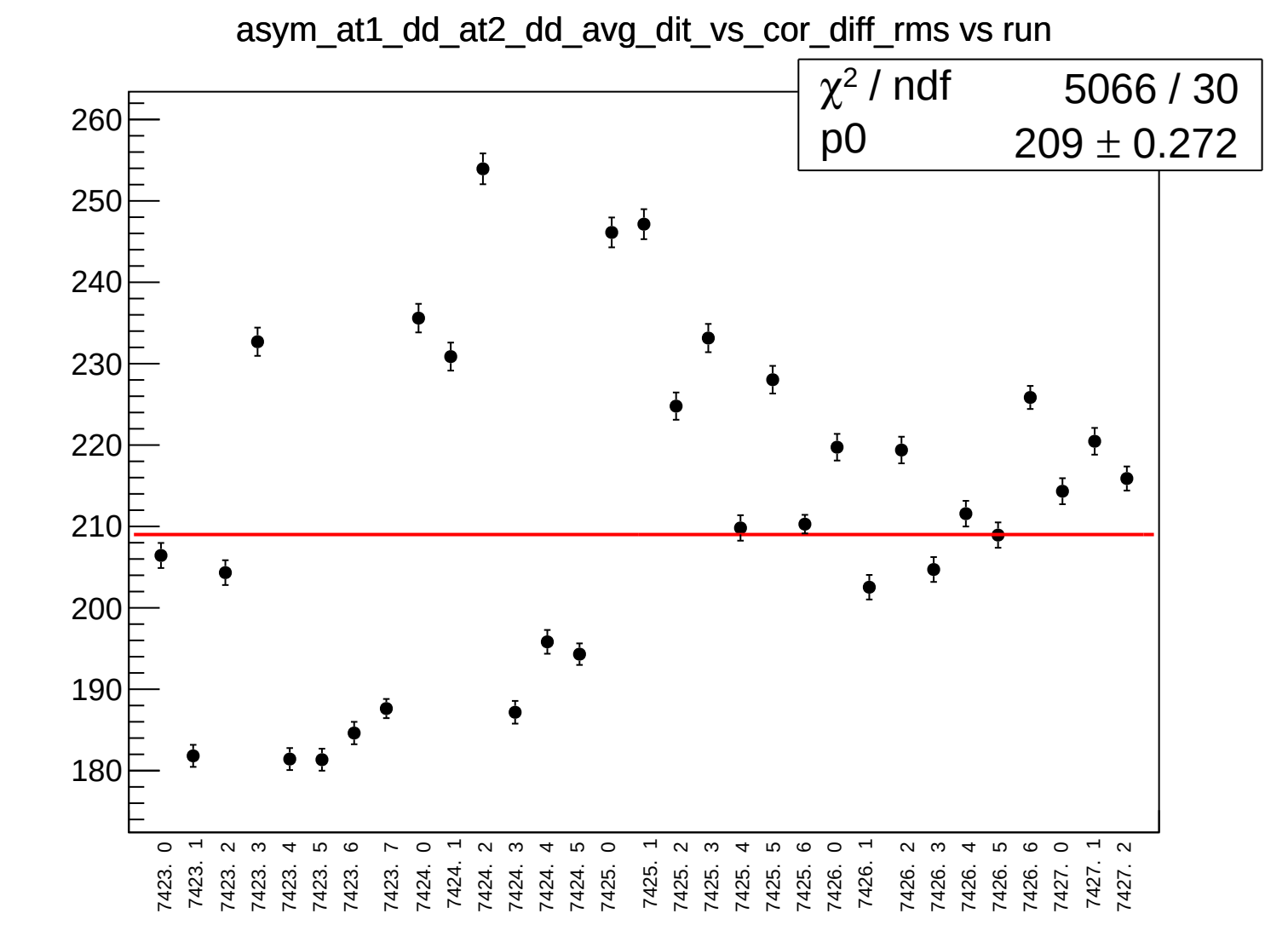

asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 89.68 / 30
p0 1265 ± 1.639
1320
1300
1280
1260
1240
1220
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

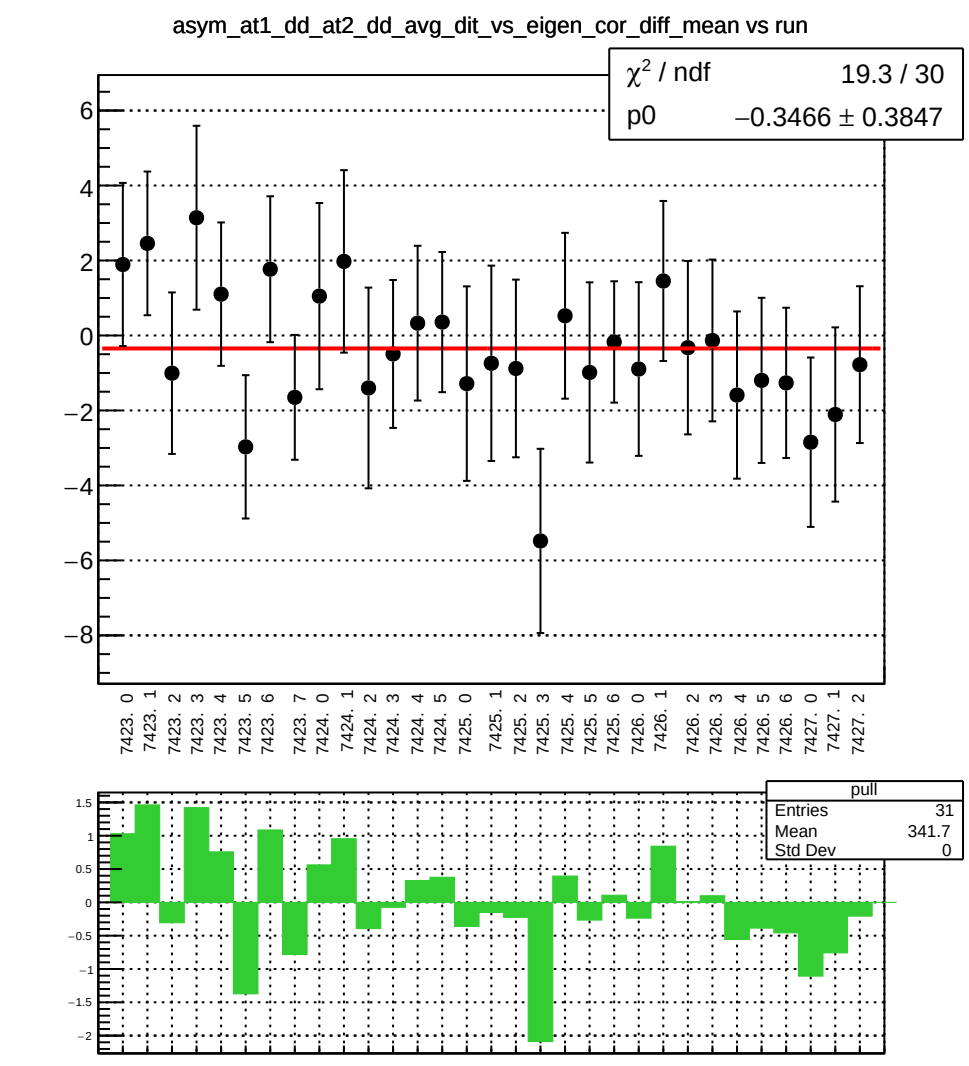

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.98 / 30
p0 −4.004e−15 ± 5.354e−14
0.01
0
−0.01
−0.02
−0.03
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −8.025
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

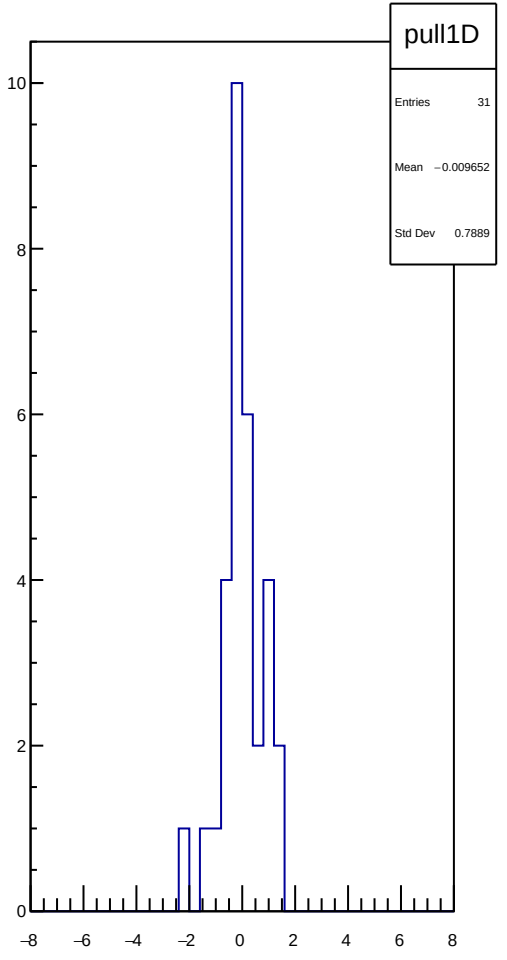

pull1D
Entries 31
Mean −0.08353
Std Dev 0.9116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

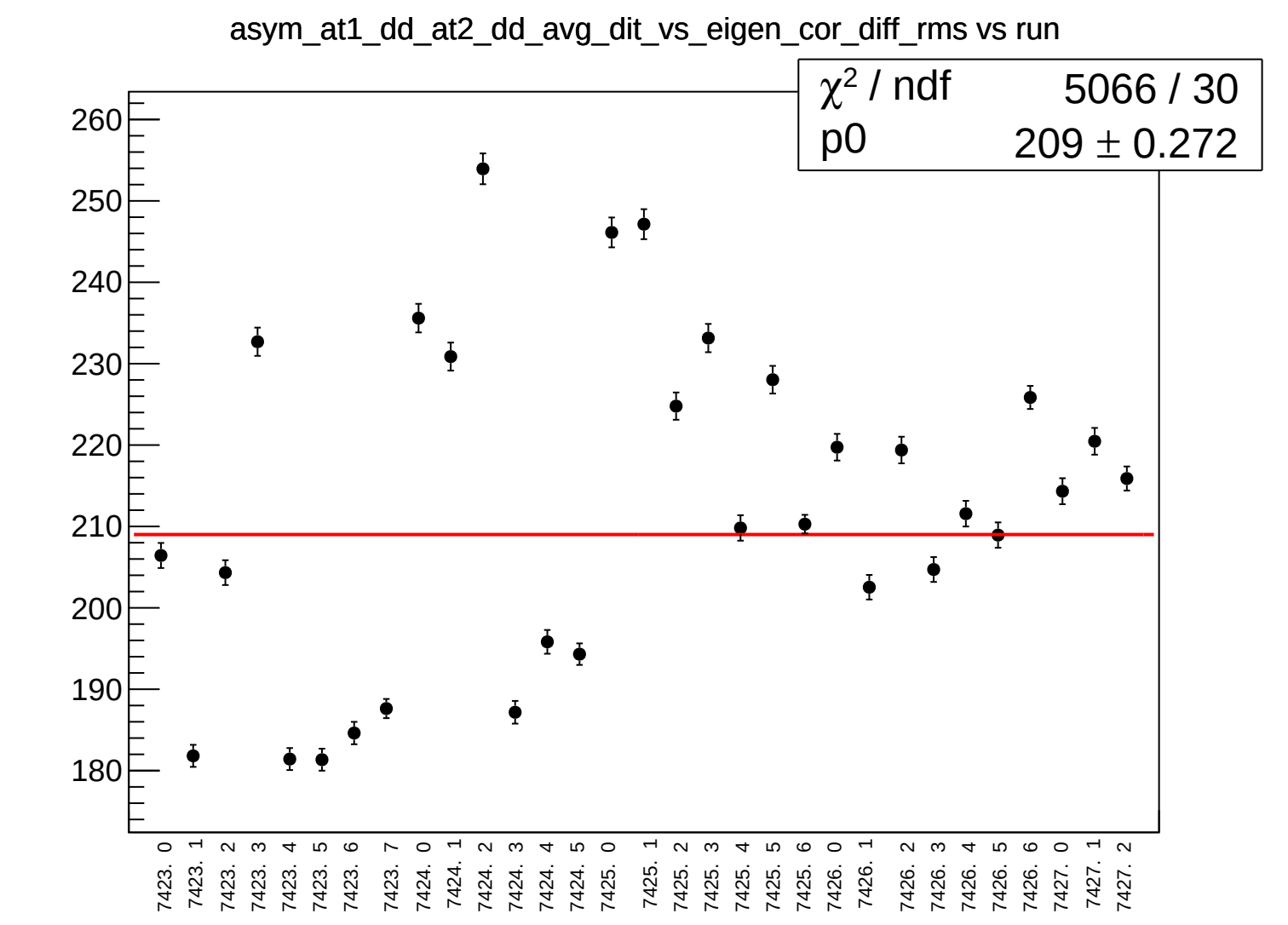

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.07e+05 / 30
p0 1.126e−11 ± 3.786e−14
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

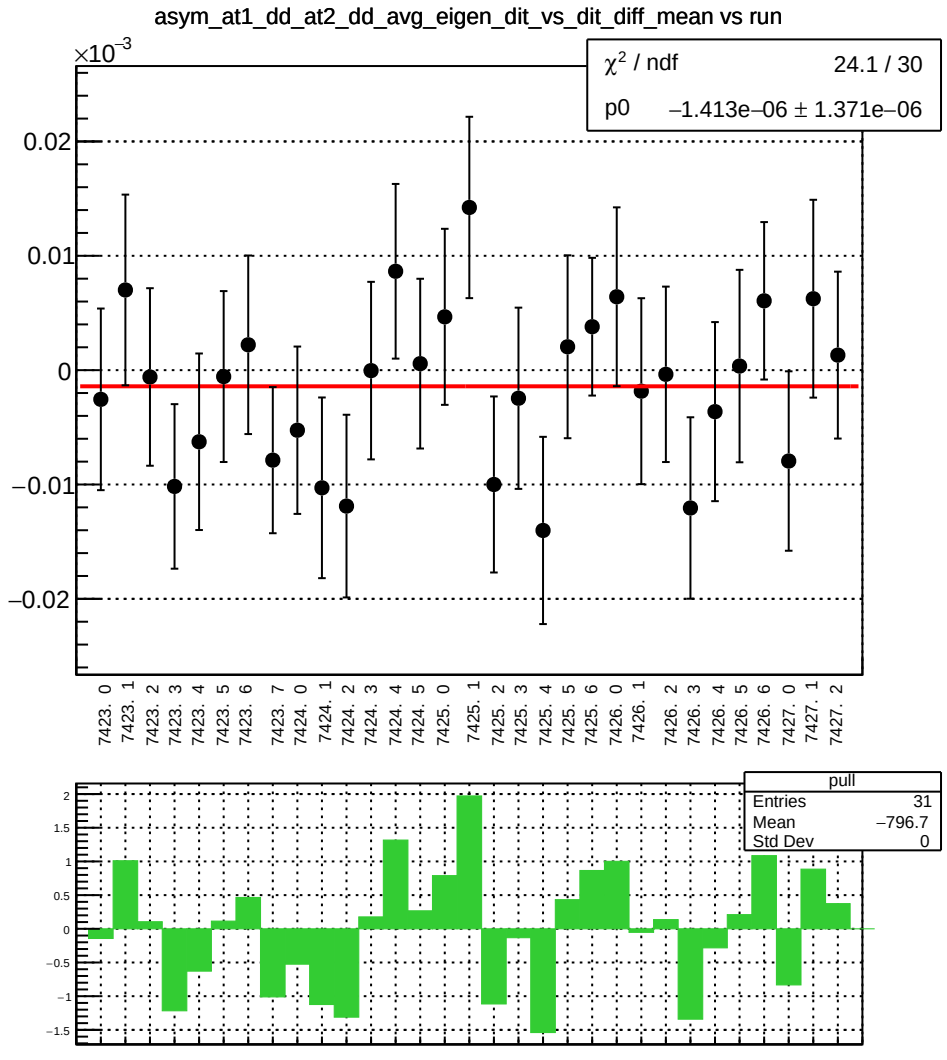

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 19.3 / 30
p0 −0.3466 ± 0.3847
6
4
2
0
−2
−4
−6
−8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 341.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.009652
Std Dev 0.7889
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

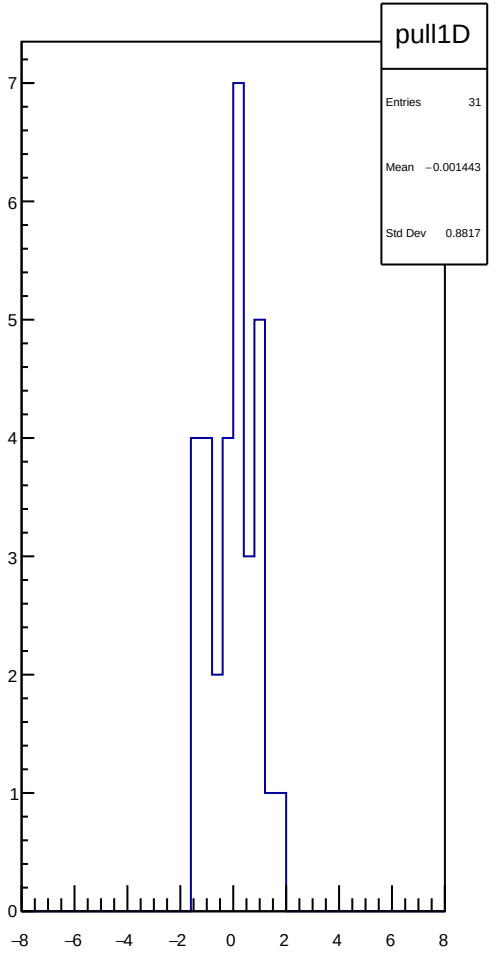

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5066 / 30
p0 209 ± 0.272
260
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

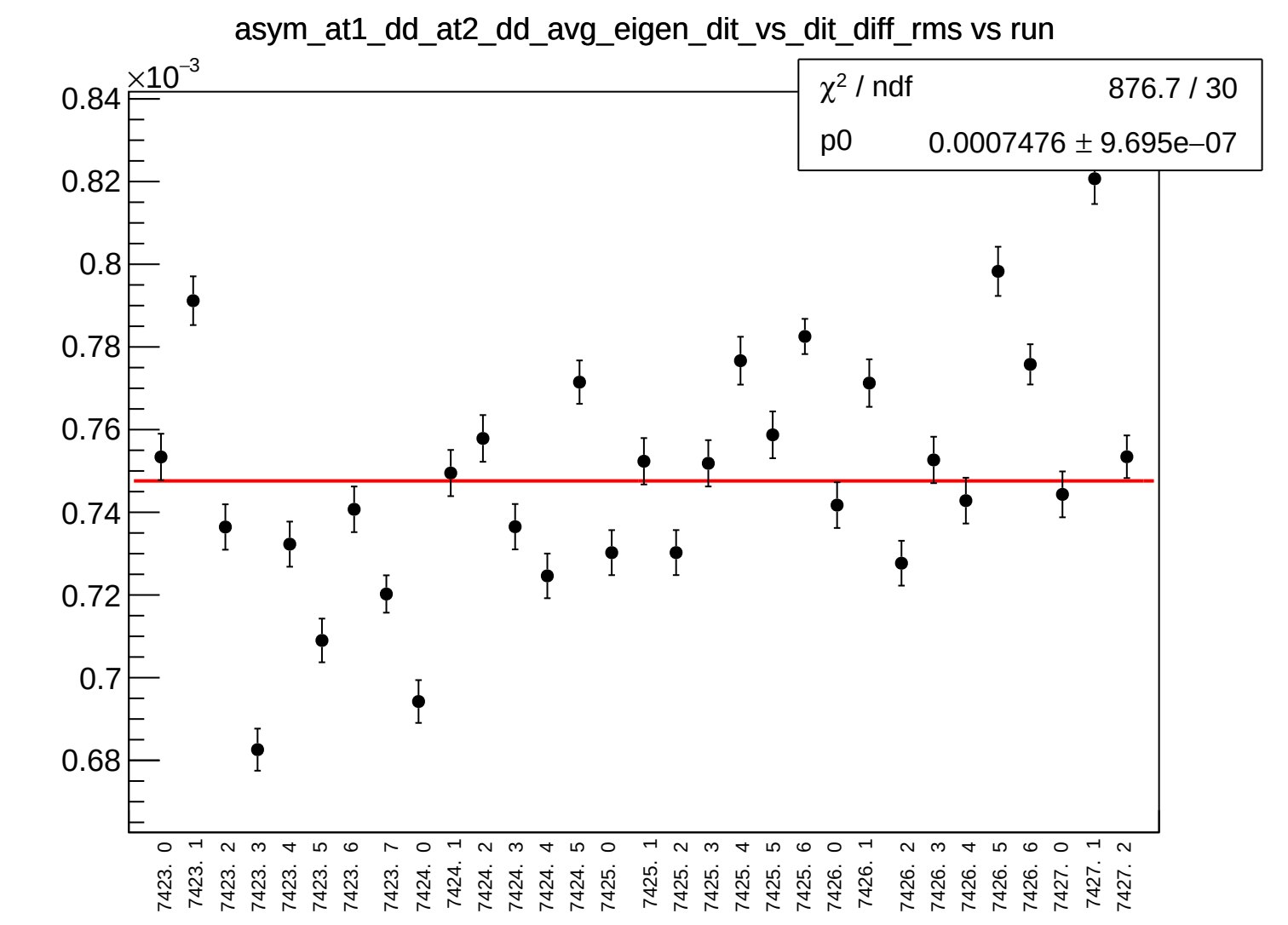

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.3 / 30
p0 −0.3466 ± 0.3847
6
4
2
0
−2
−4
−6
−8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 341.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.009652
Std Dev 0.7889
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

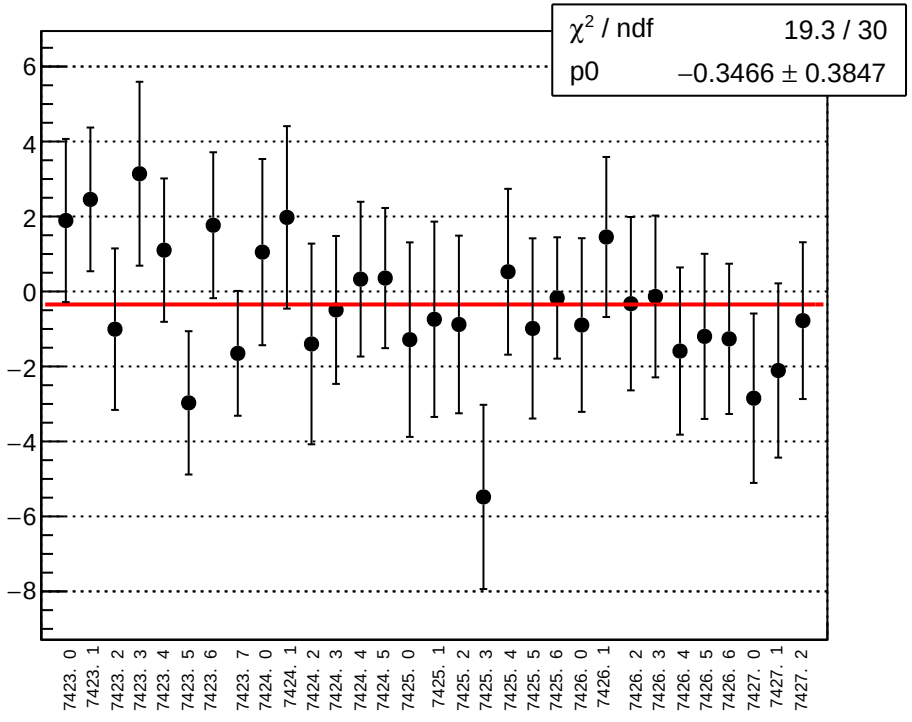

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5066 / 30
p0 209 ± 0.272
260
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

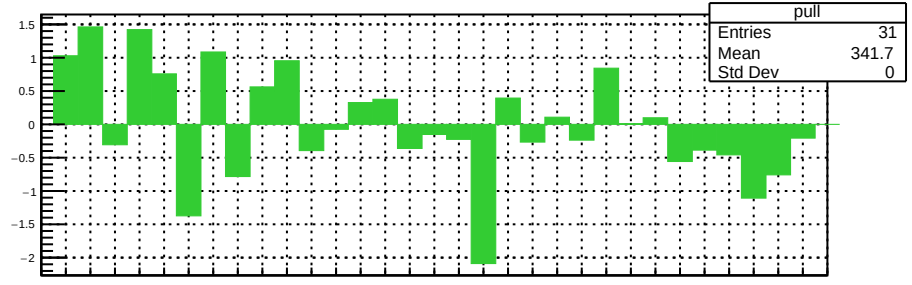

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 24.1 / 30
p0 −1.413e−06 ± 1.371e−06
0.02
0.01
0
−0.01
−0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −796.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

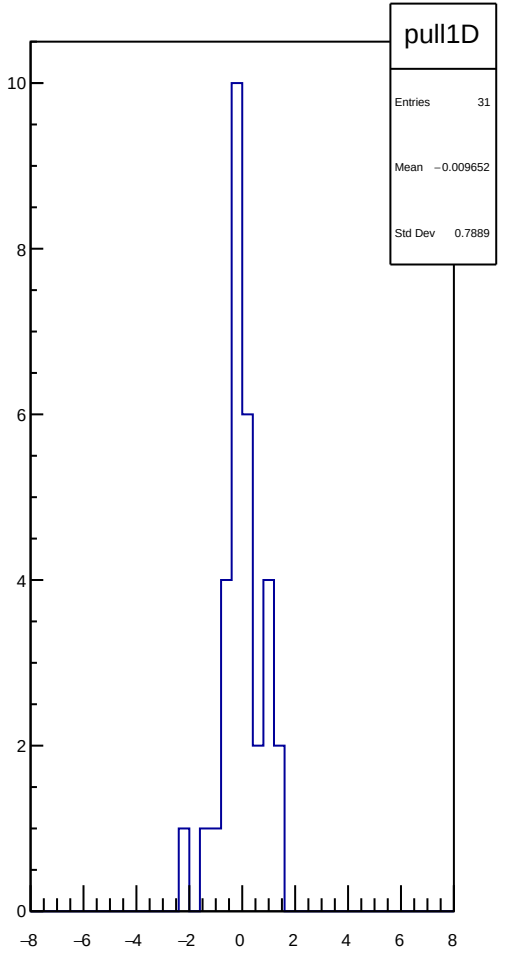

pull1D
Entries 31
Mean −0.001443
Std Dev 0.8817
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

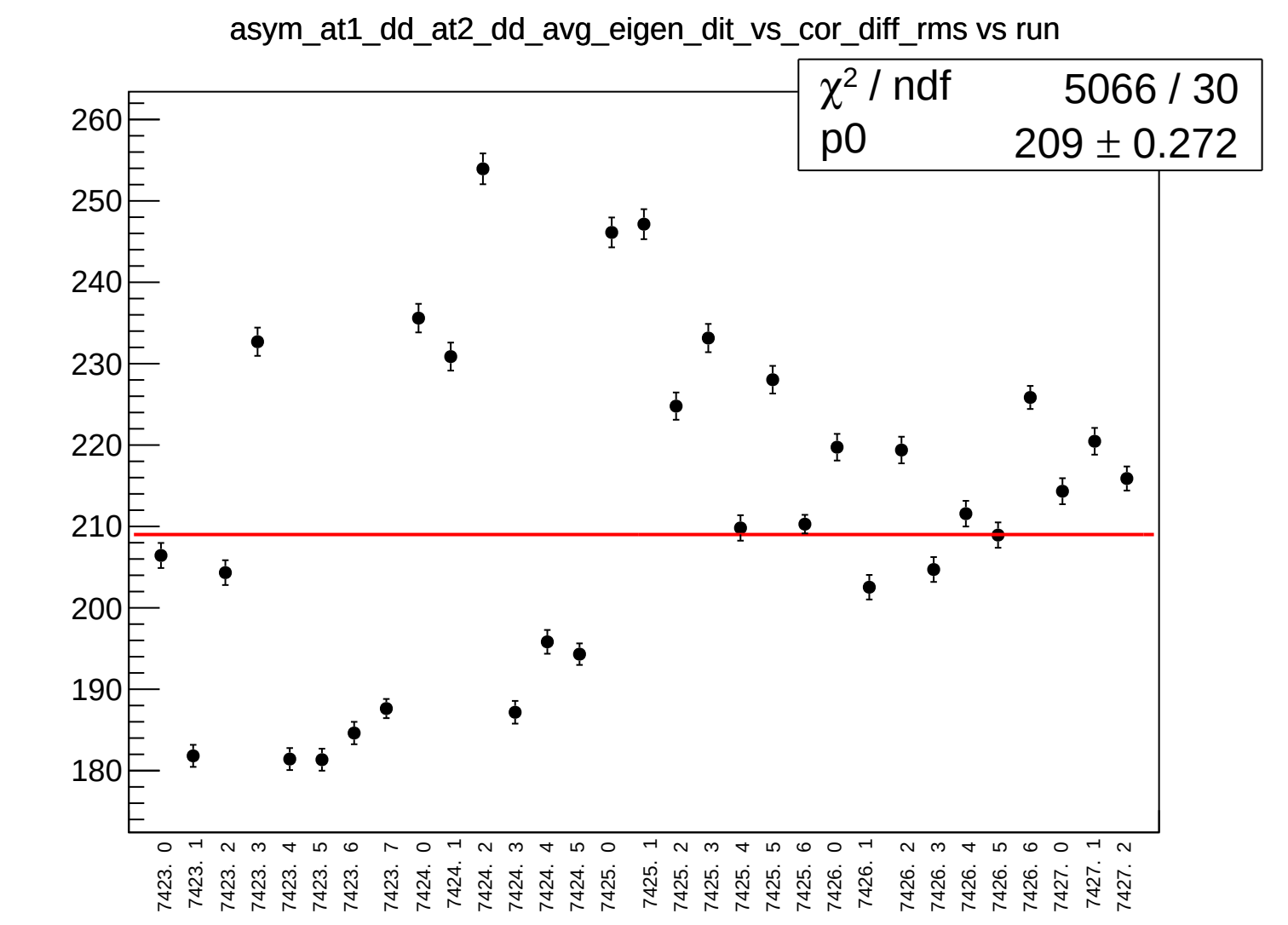

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 876.7 / 30
p0 0.0007476 ± 9.695e−07
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

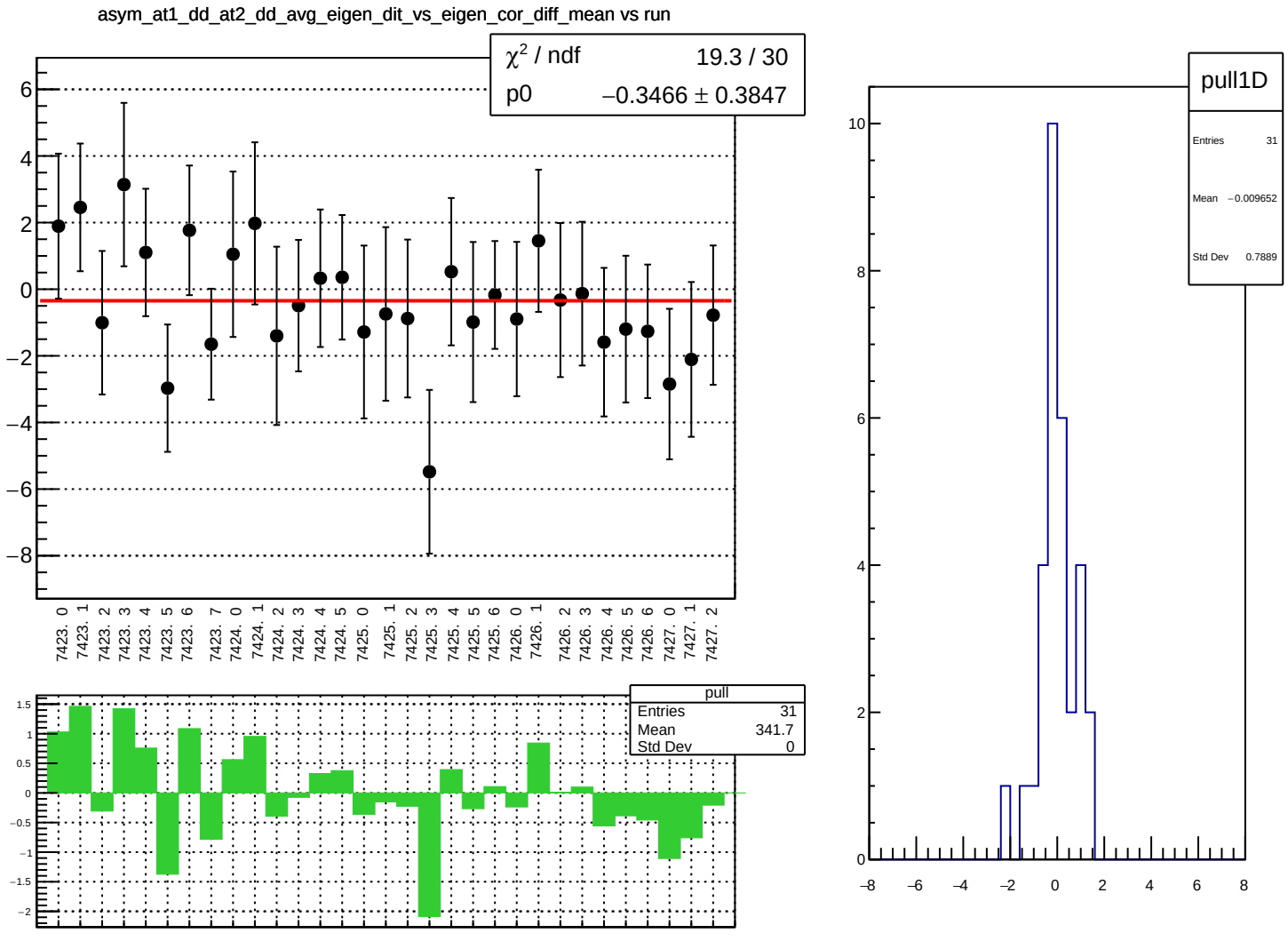
asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run

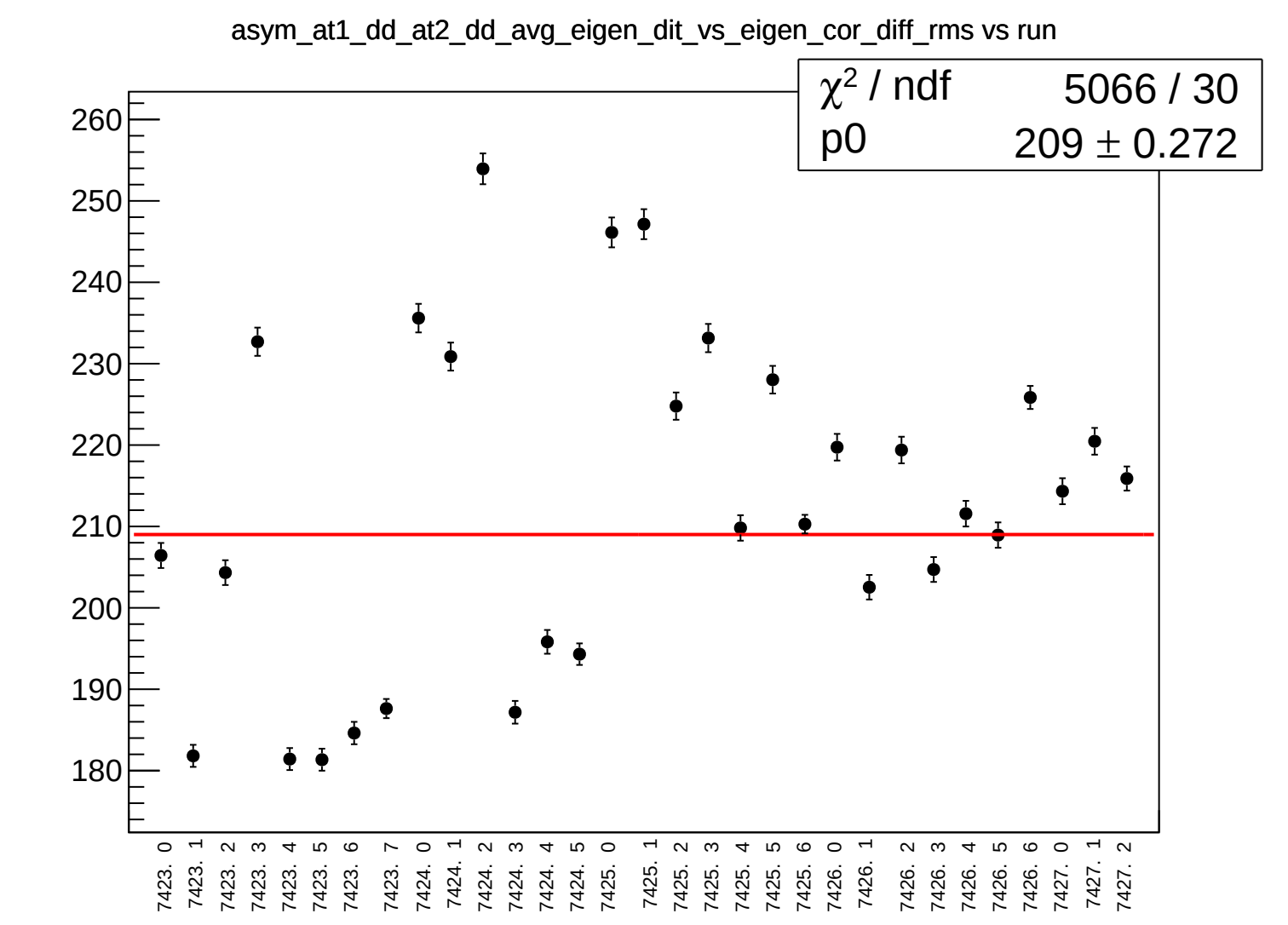


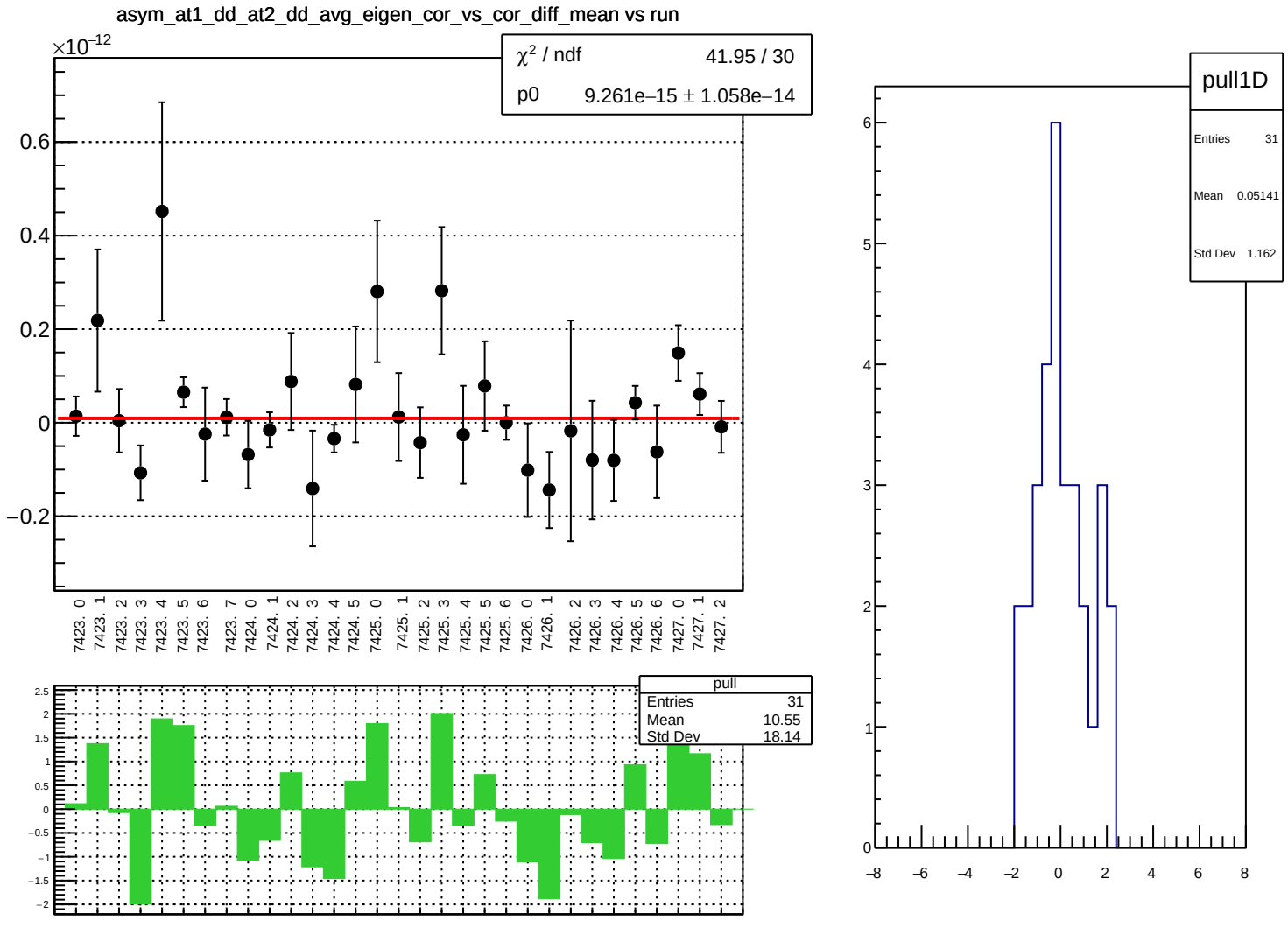


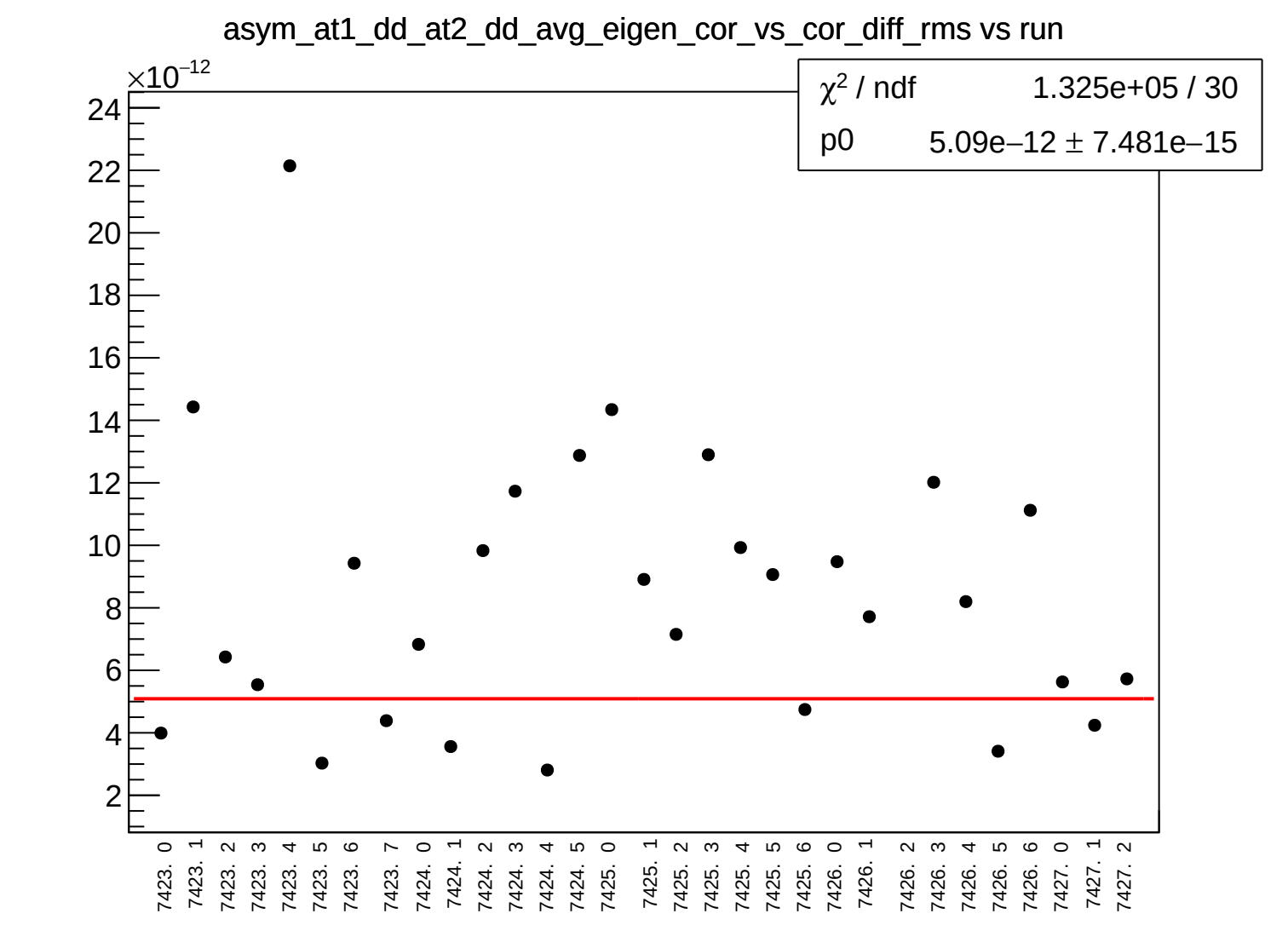


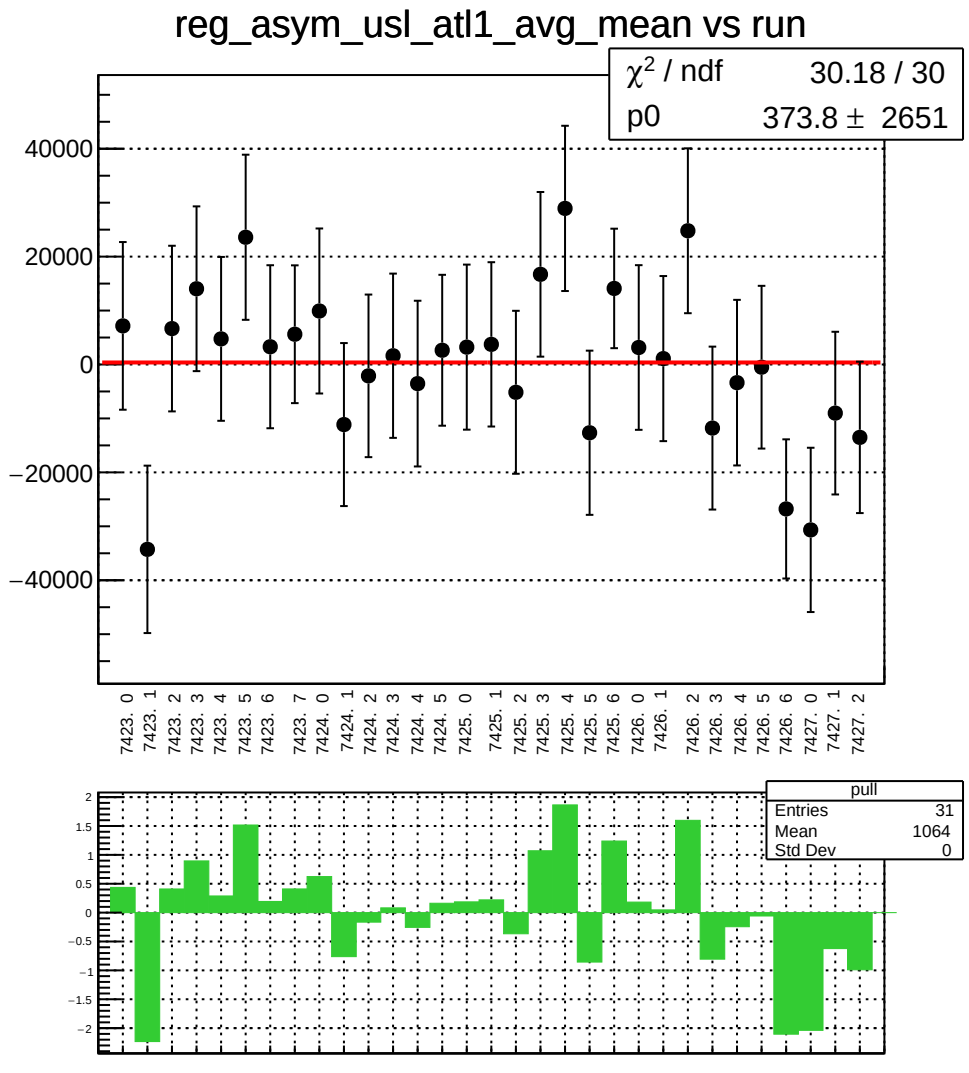

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5066 / 30
p0 209 ± 0.272
260
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

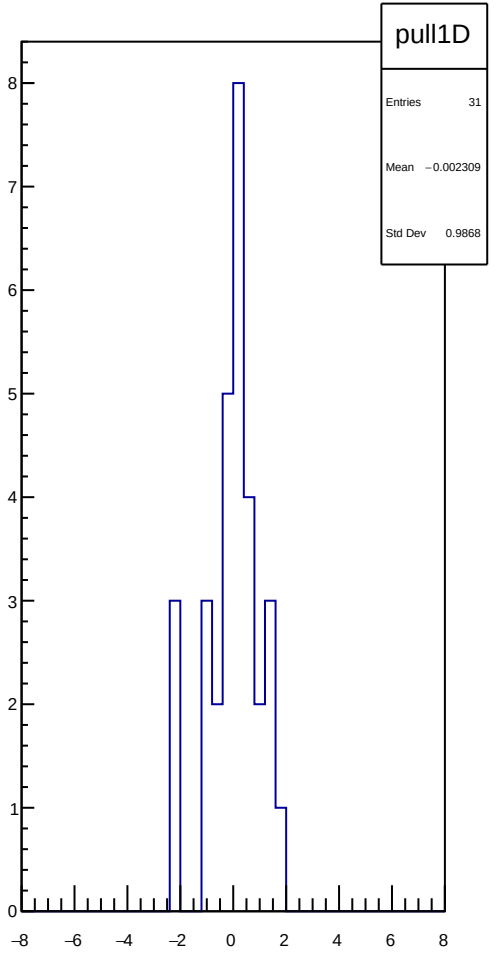

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.3 / 30
p0 −0.3466 ± 0.3847
pull
Entries 31
Mean 341.7
Std Dev 0
pull1D
Entries 31
Mean −0.009652
Std Dev 0.7889

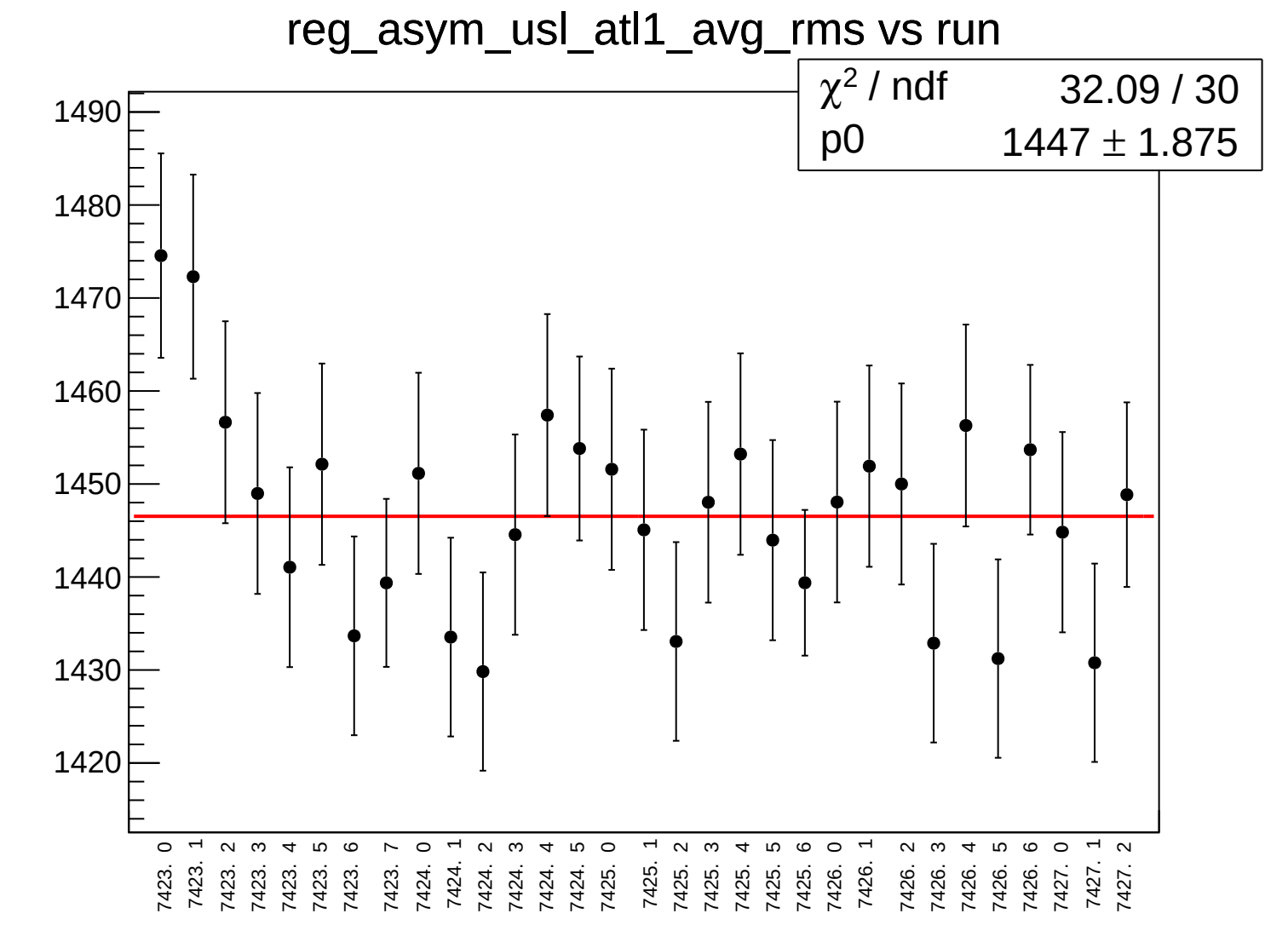

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5066 / 30
p0 209 ± 0.272
260
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

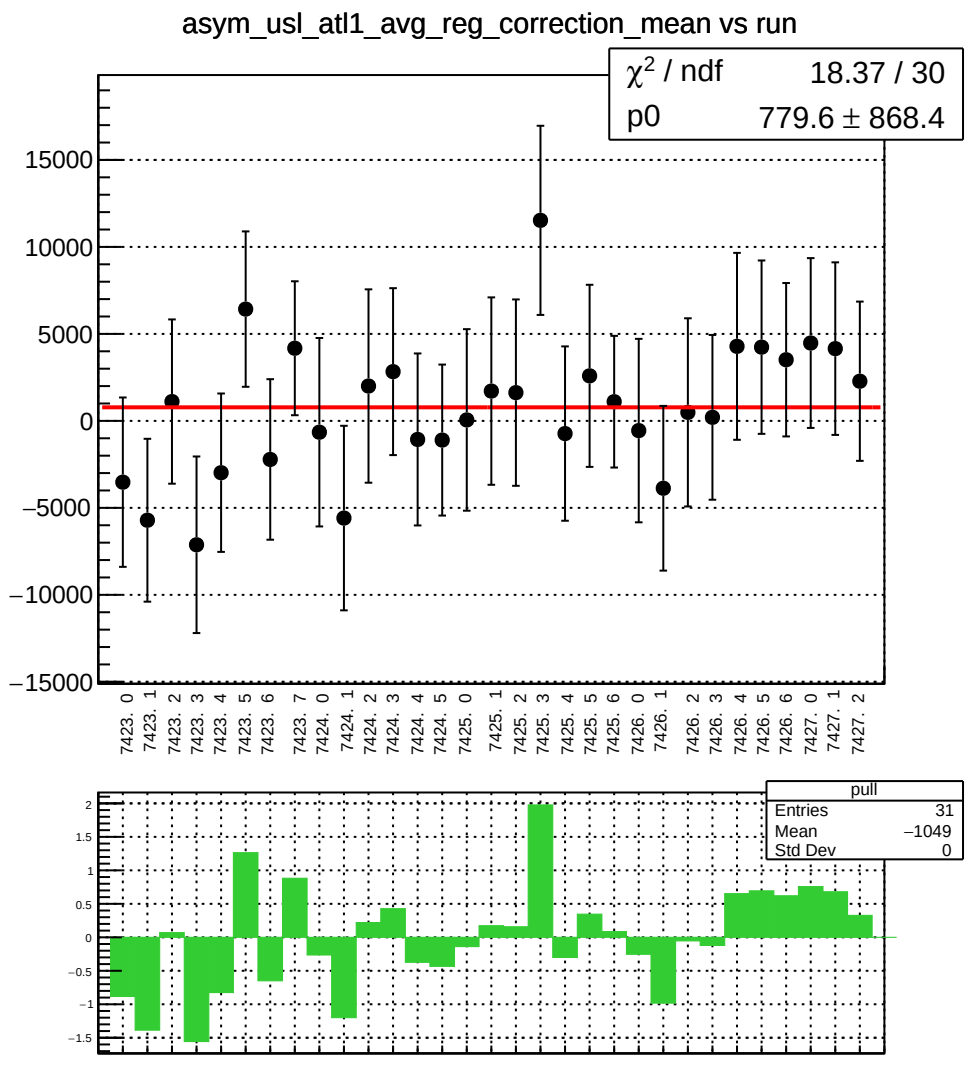

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 41.95 / 30
p0 9.261e−15 ± 1.058e−14
0.6
0.4
0.2
0
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 10.55
Std Dev 18.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.05141
Std Dev 1.162
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

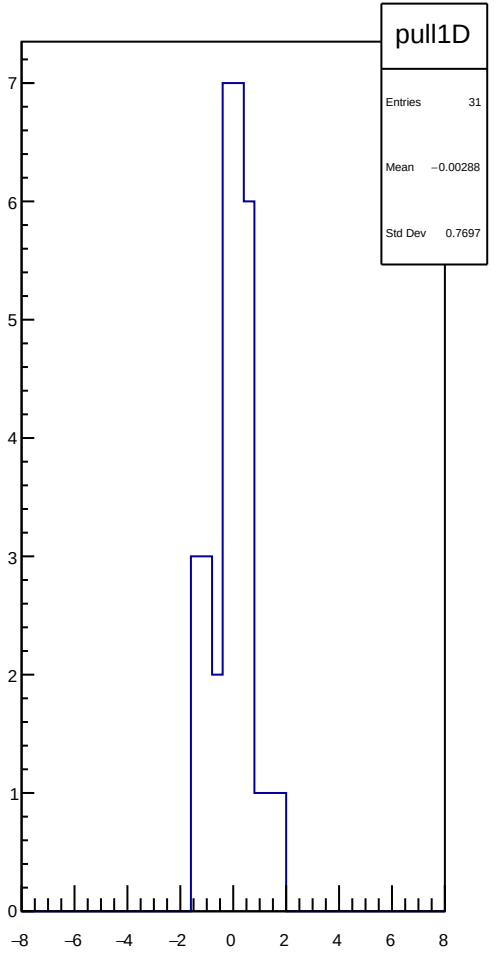

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.325e+05 / 30
p0 5.09e−12 ± 7.481e−15
24
22
20
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

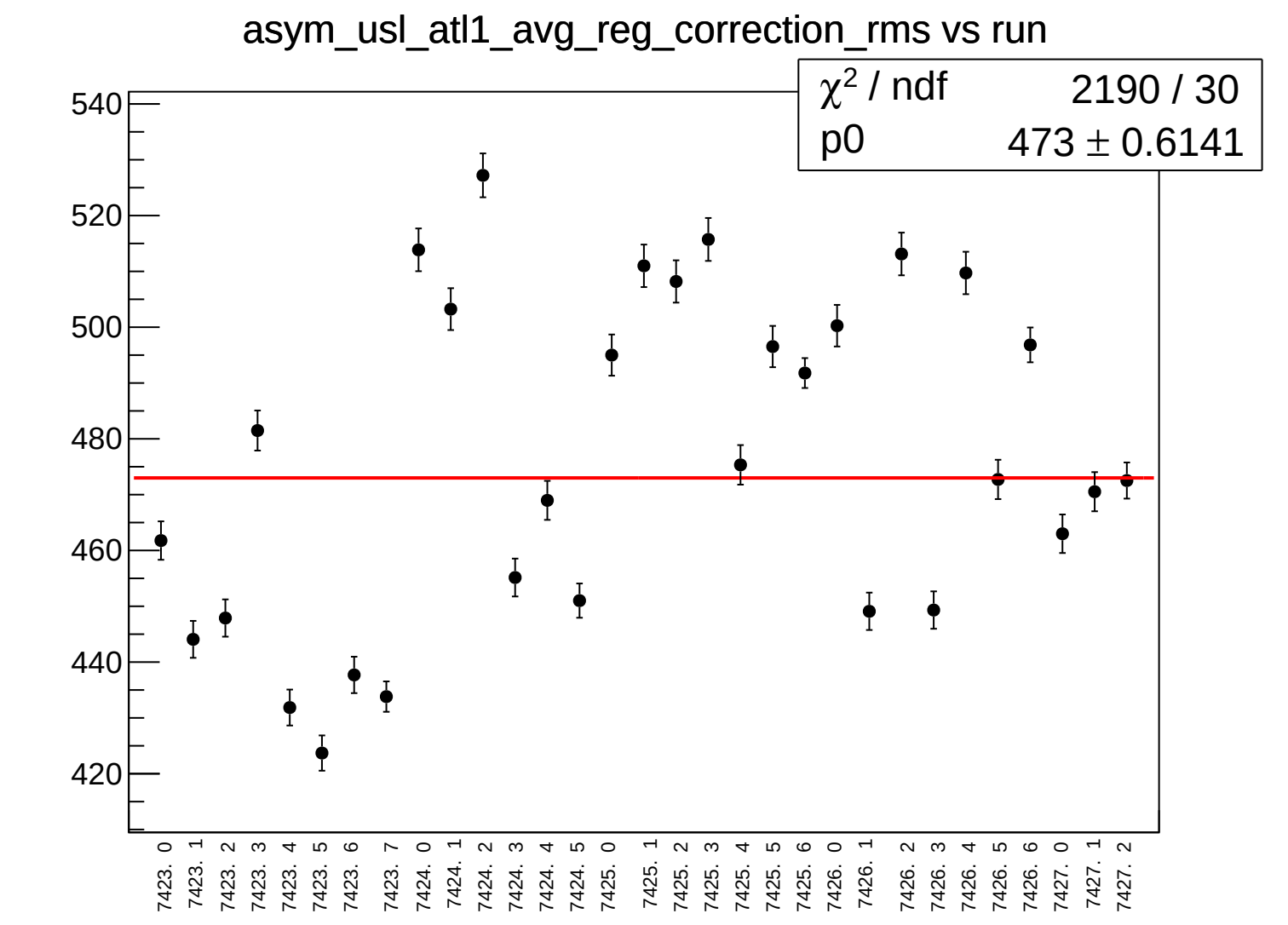

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 30.18 / 30
p0 373.8 ± 2651
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1064
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

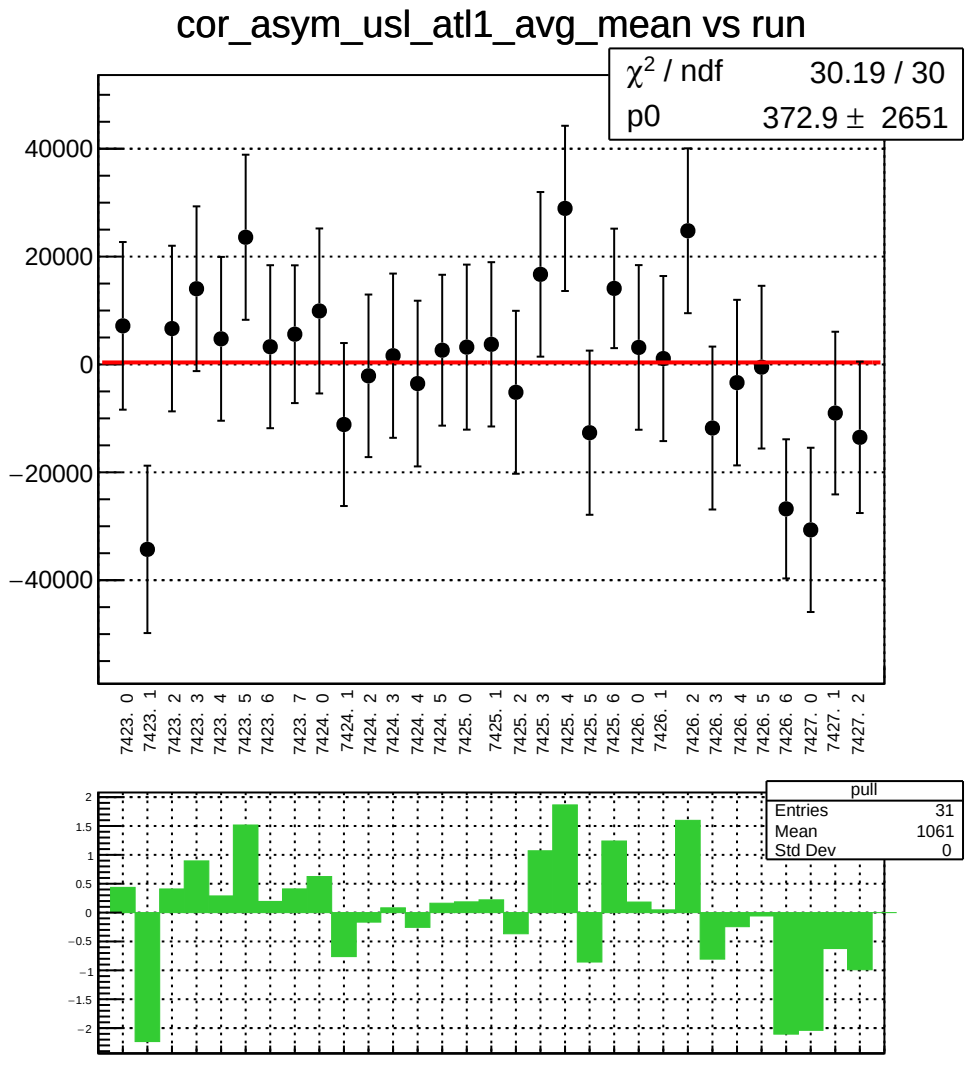

pull1D
Entries 31
Mean −0.002309
Std Dev 0.9868
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

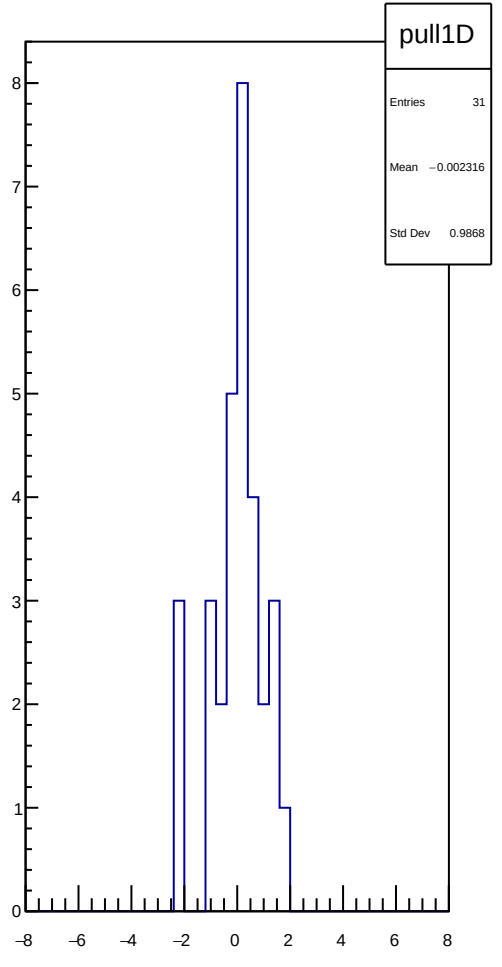

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 32.09 / 30
p0 1447 ± 1.875
1490
1480
1470
1460
1450
1440
1430
1420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

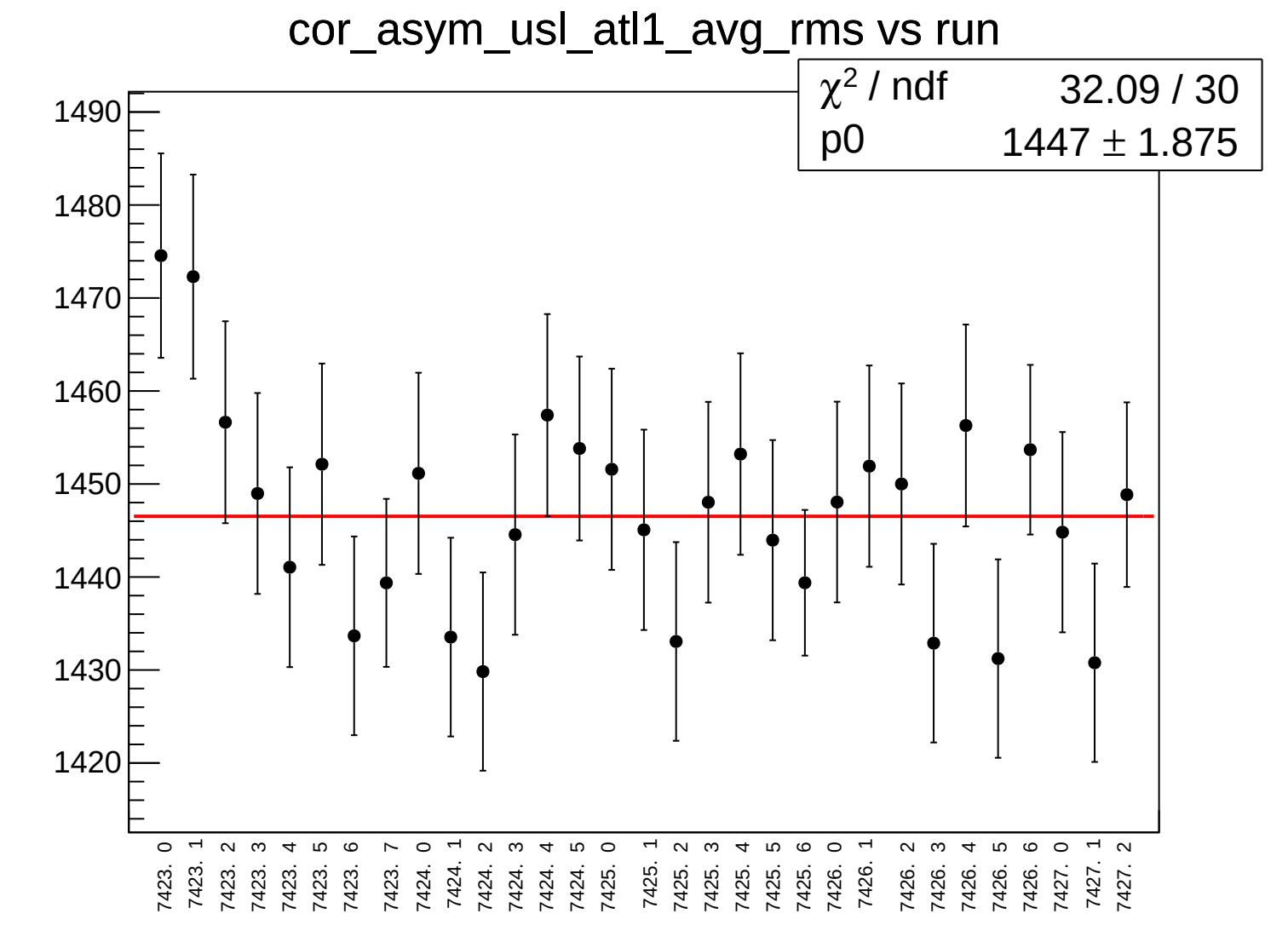

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 18.37 / 30
p0 779.6 ± 868.4
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1049
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

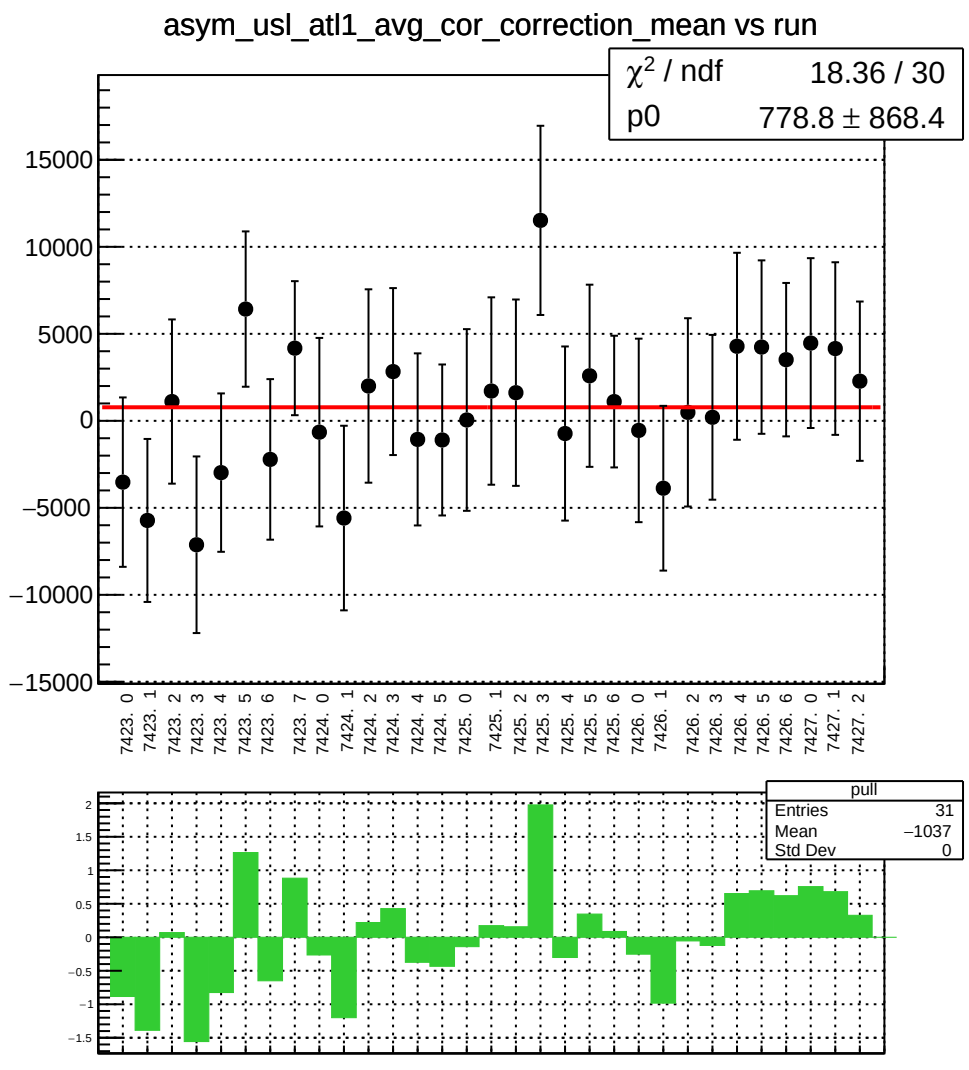

pull1D
Entries 31
Mean −0.00288
Std Dev 0.7697
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

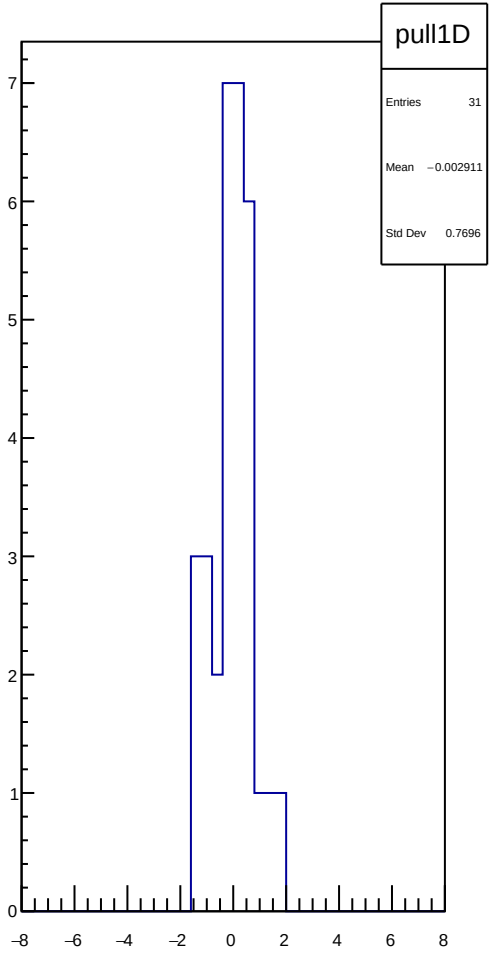

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 2190 / 30
p0 473 ± 0.6141
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

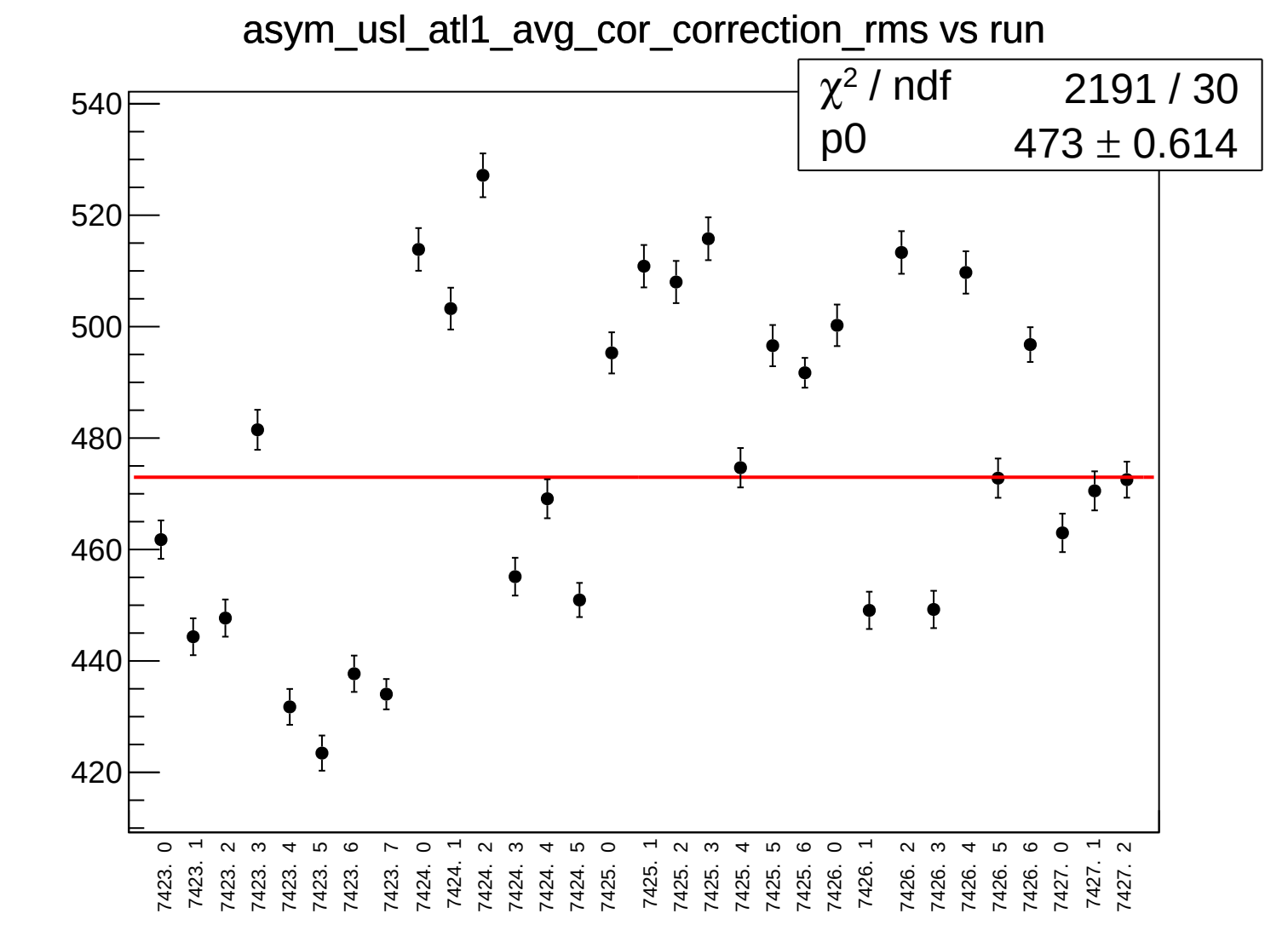

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 30.19 / 30
p0 372.9 ± 2651
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1061
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

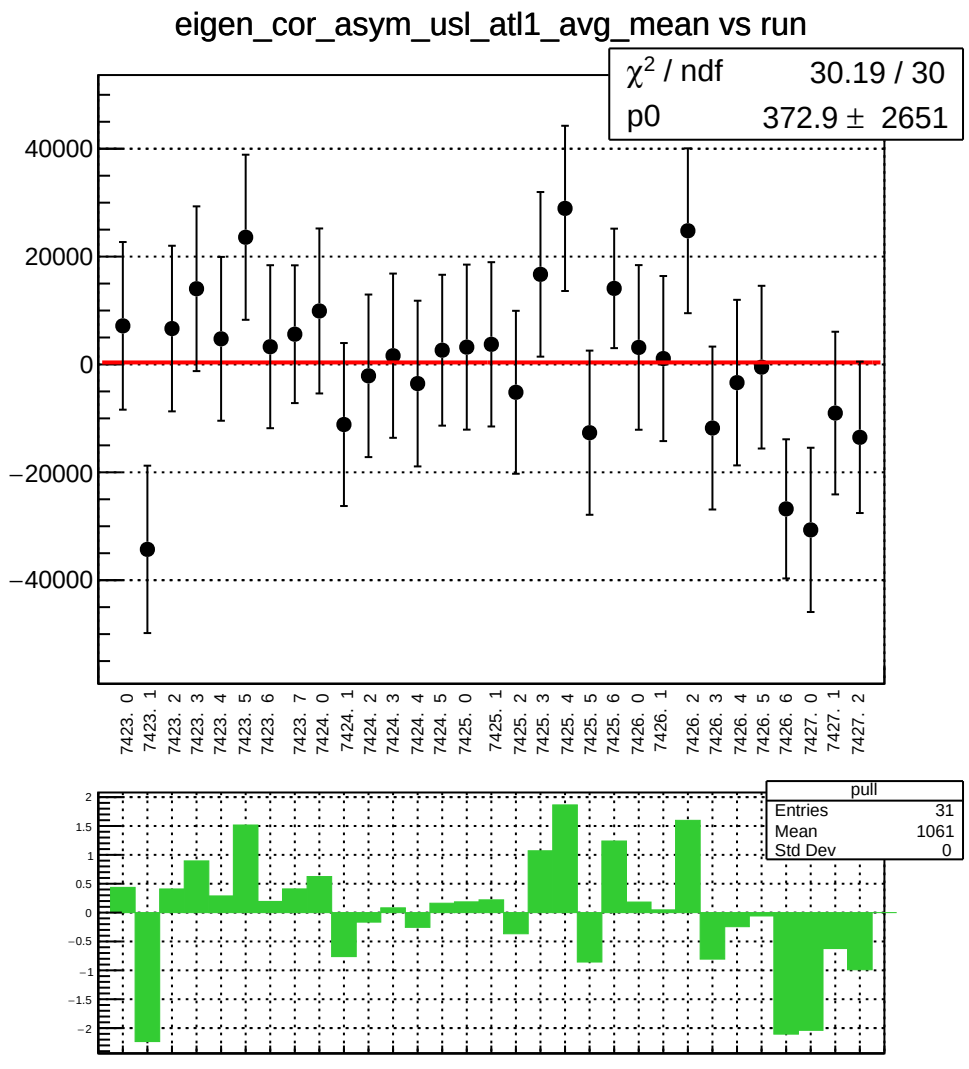

pull1D
Entries 31
Mean −0.002316
Std Dev 0.9868
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

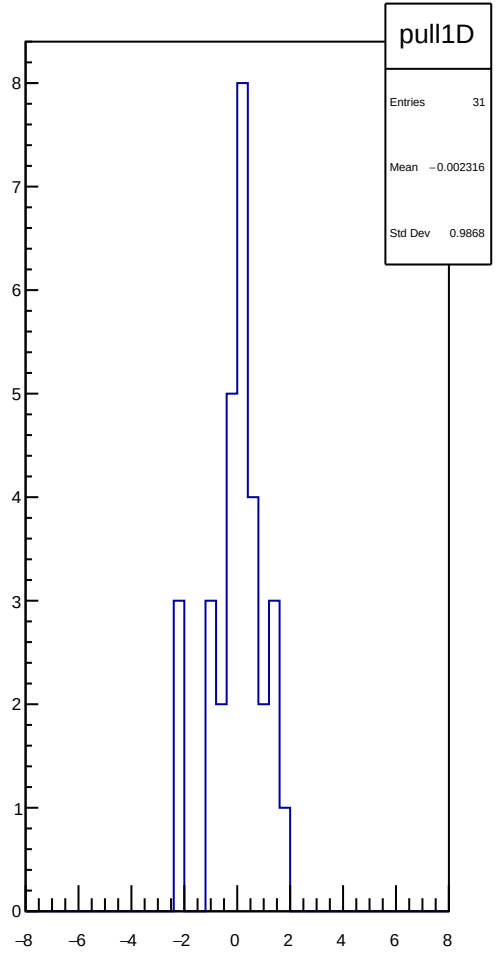

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 32.09 / 30
p0 1447 ± 1.875
1490
1480
1470
1460
1450
1440
1430
1420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

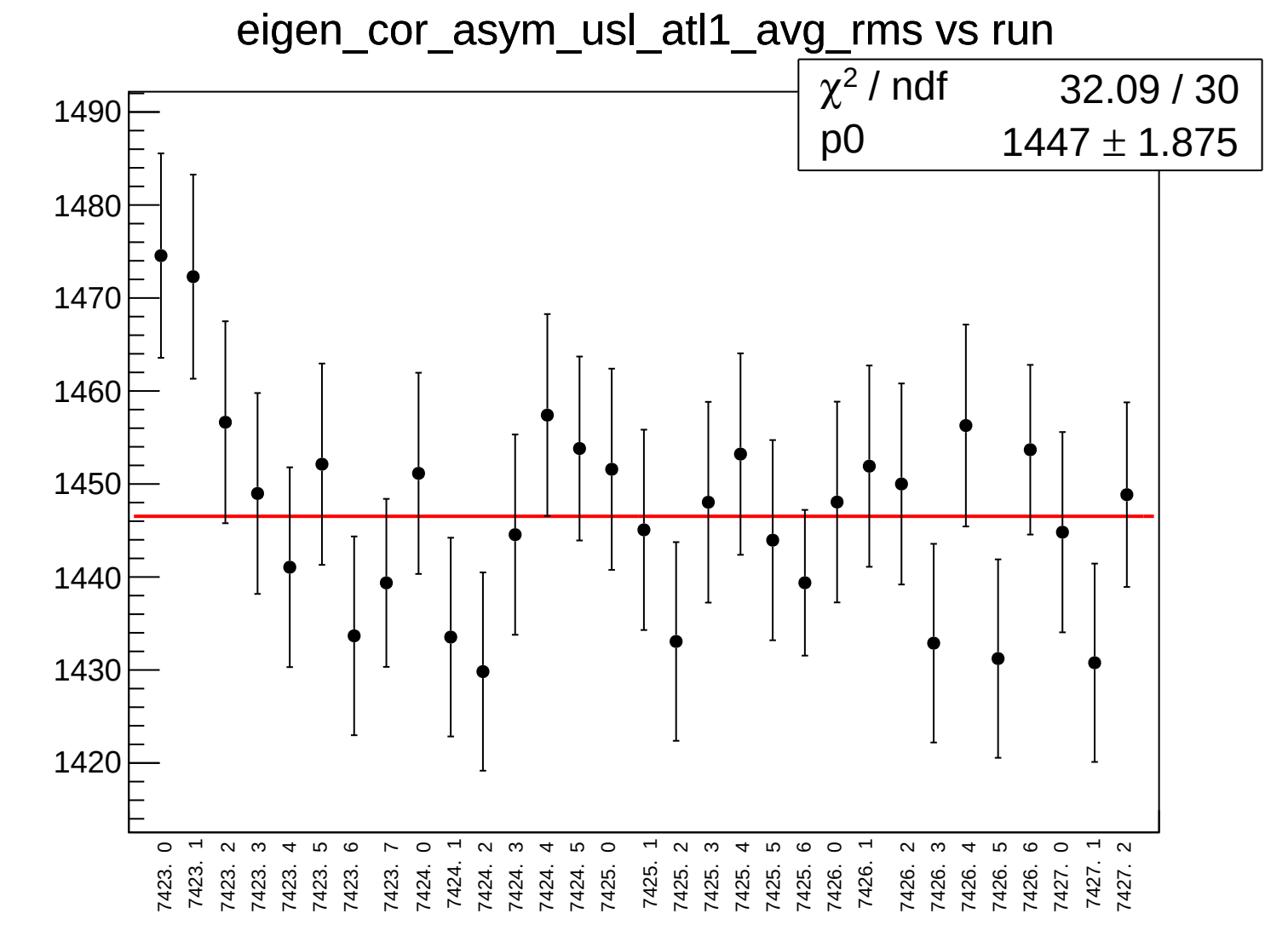

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 18.36 / 30
p0 778.8 ± 868.4
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1037
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

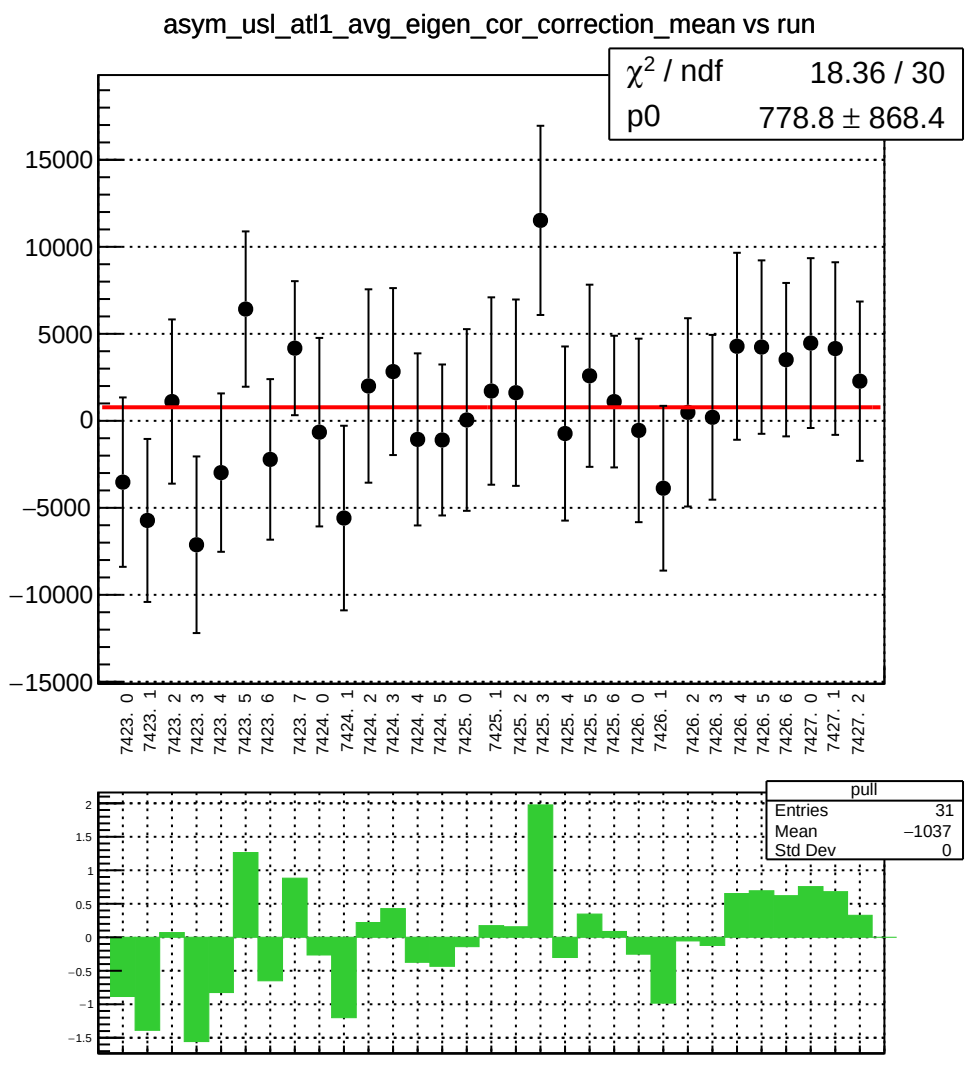

pull1D
Entries 31
Mean −0.002911
Std Dev 0.7696
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

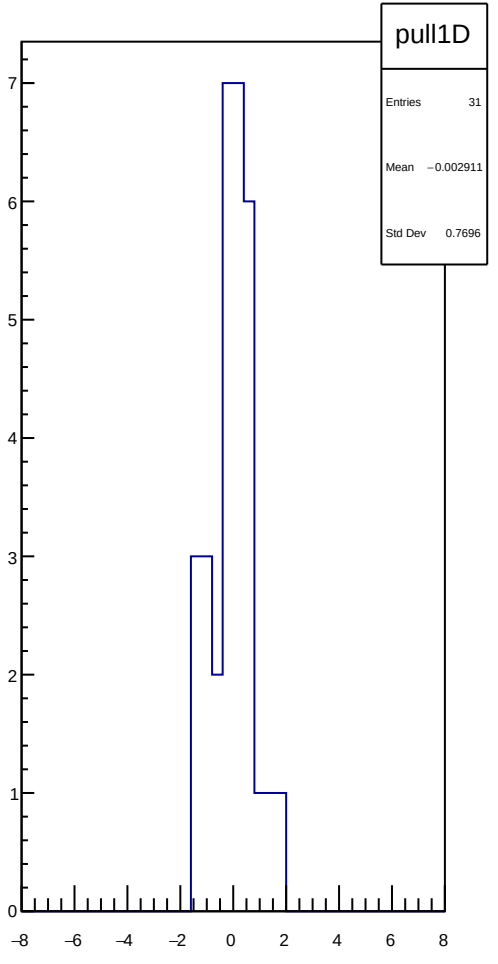

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 2191 / 30
p0 473 ± 0.614
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 30.19 / 30
p0 372.9 ± 2651
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1061
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.002316
Std Dev 0.9868
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 32.09 / 30
p0 1447 ± 1.875
1490
1480
1470
1460
1450
1440
1430
1420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 18.36 / 30
p0 778.8 ± 868.4
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1037
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean −0.002911
Std Dev 0.7696
7
6
5
4
3
2
1
0
−8
−6
−4
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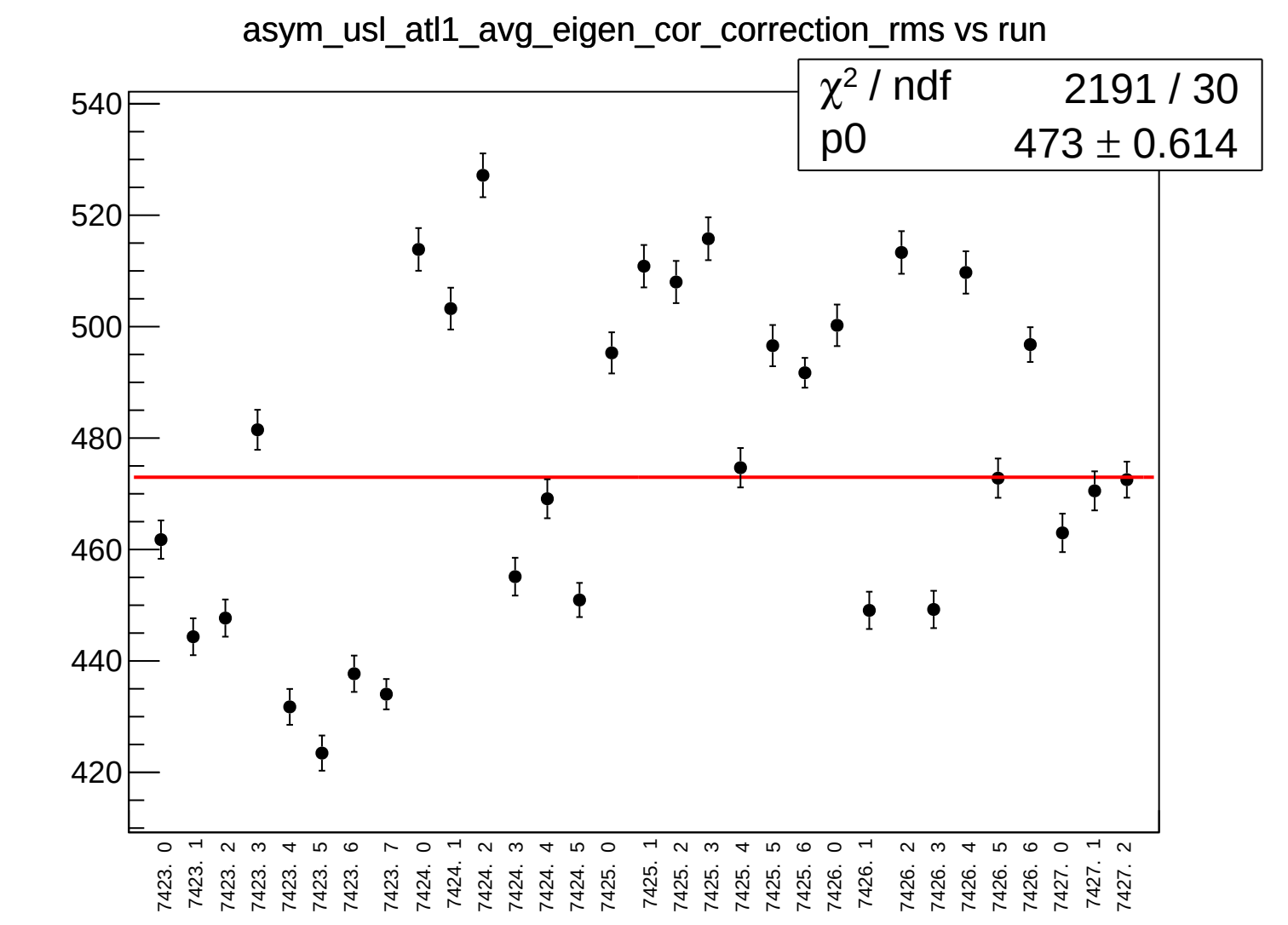
0
2
4
6
8


asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2191 / 30
p0 473 ± 0.614
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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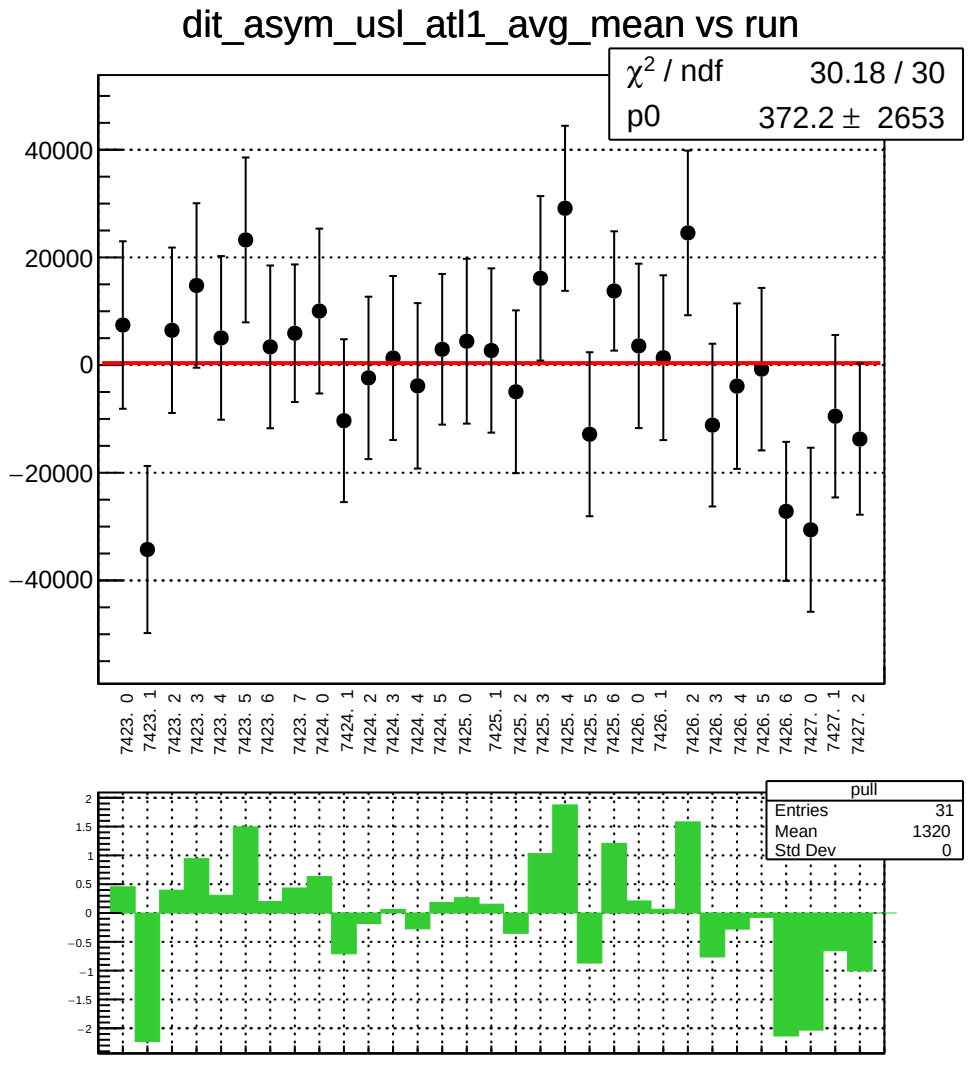
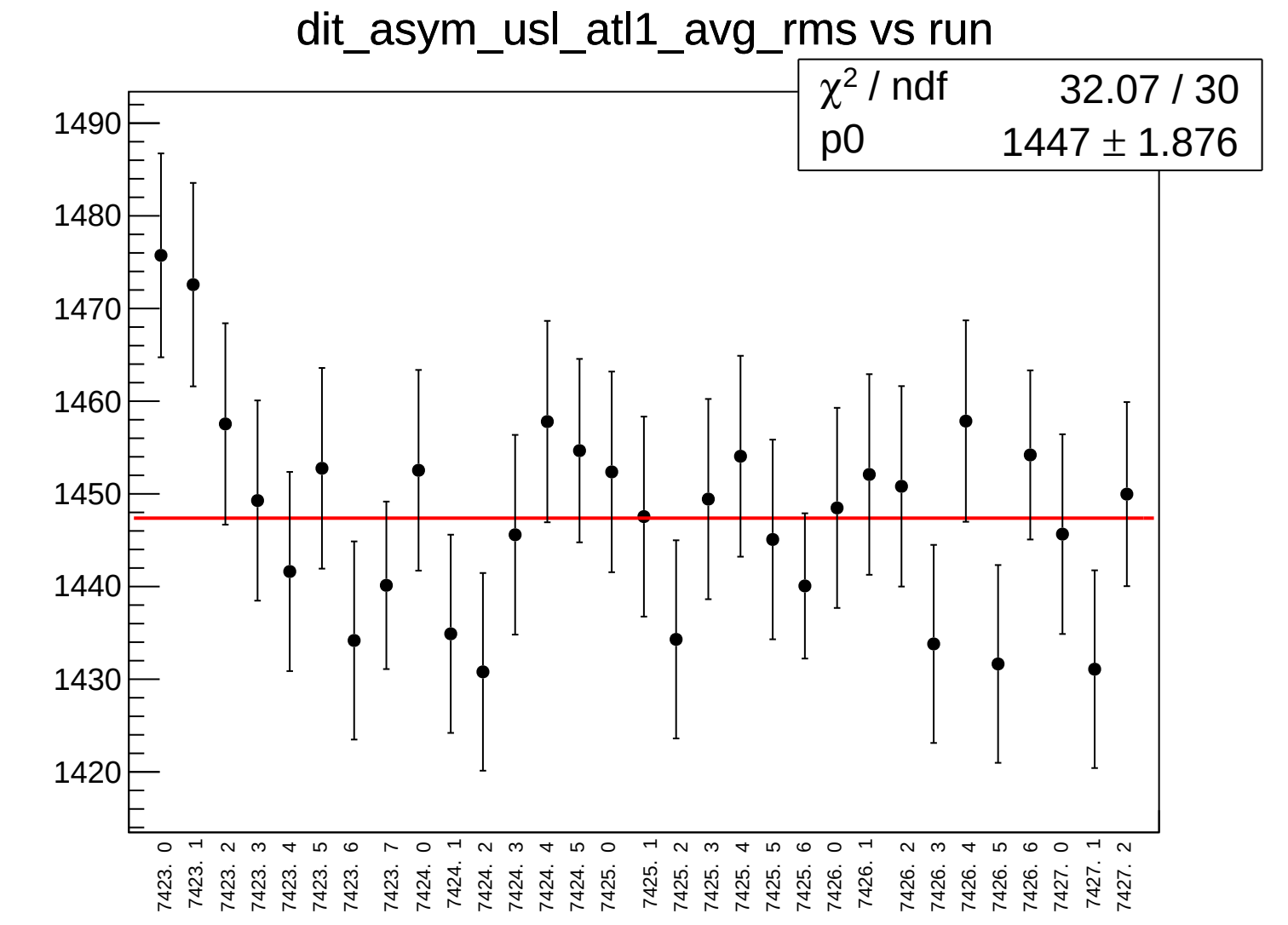
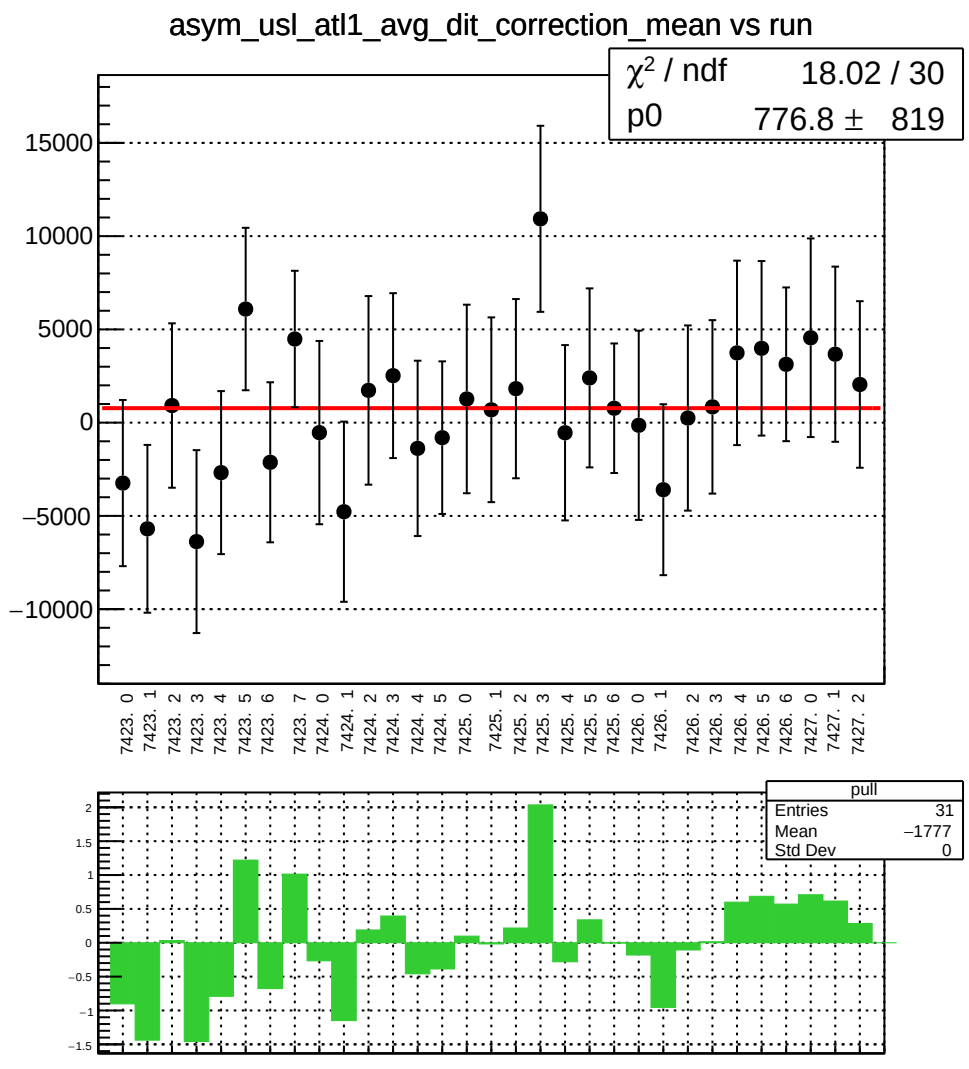
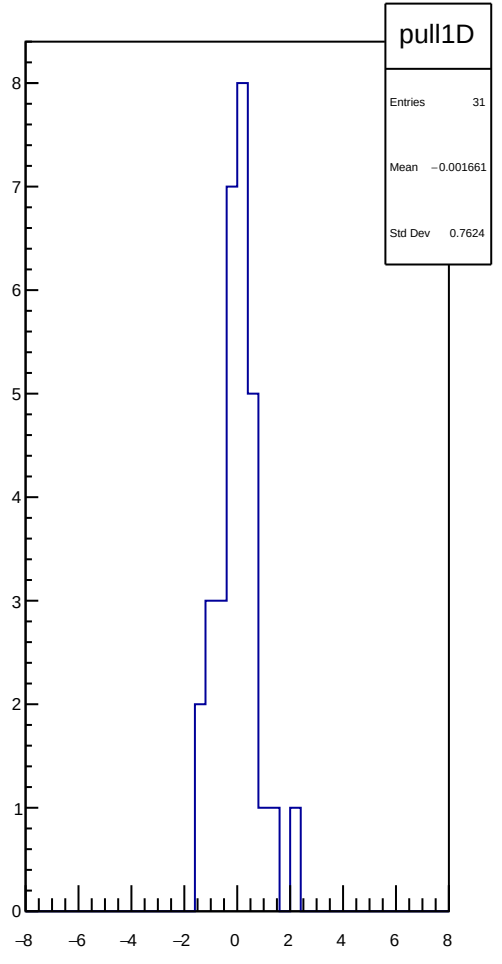
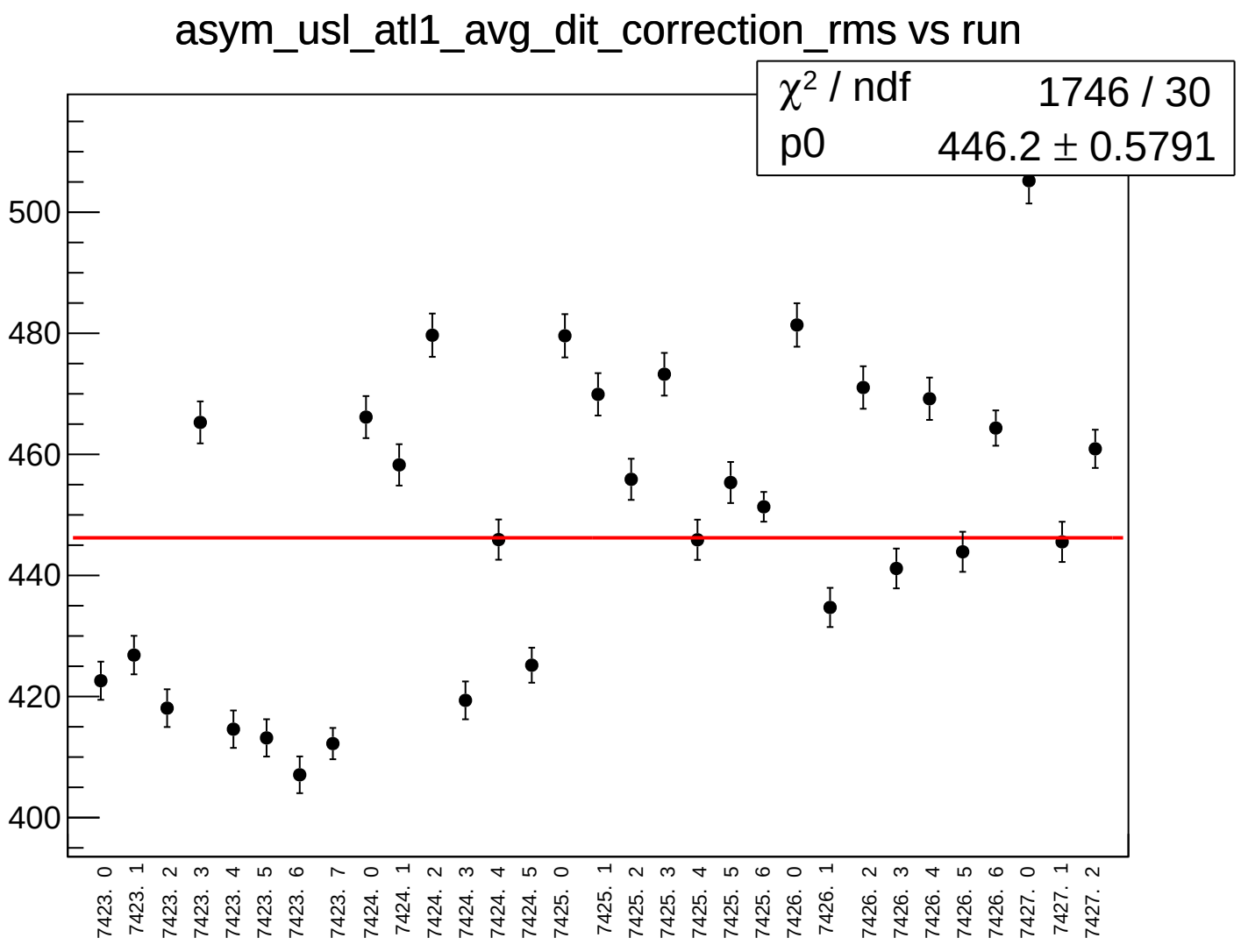
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 30.18 / 30
p0 372.2 ± 2653
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1320
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.001915
Std Dev 0.9866
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 32.07 / 30
p0 1447 ± 1.876
1490
1480
1470
1460
1450
1440
1430
1420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 18.02 / 30
p0 776.8 ± 819
15000
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1777
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean −0.001661
Std Dev 0.7624
8
7
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 1746 / 30
p0 446.2 ± 0.5791
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
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7426. 6
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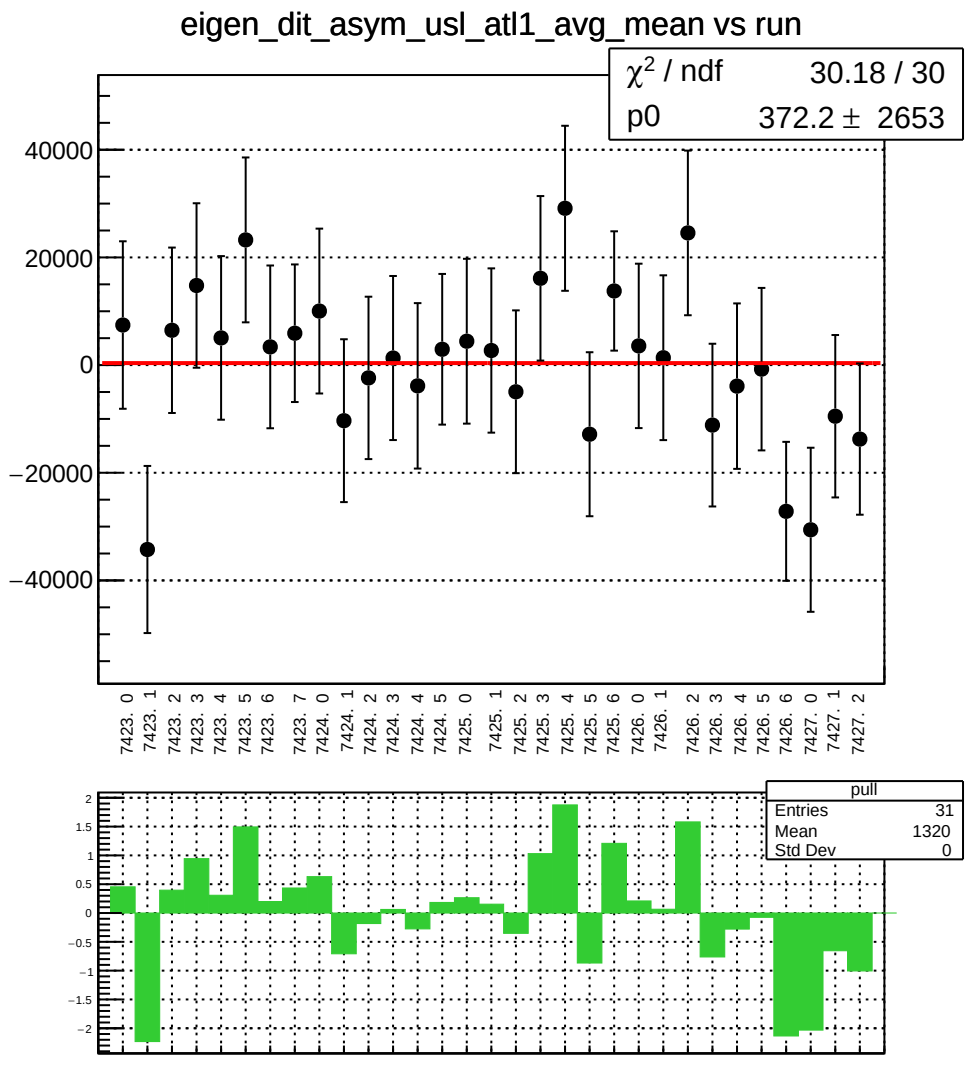
7427. 1
7427. 2


eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 30.18 / 30
p0 372.2 ± 2653
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
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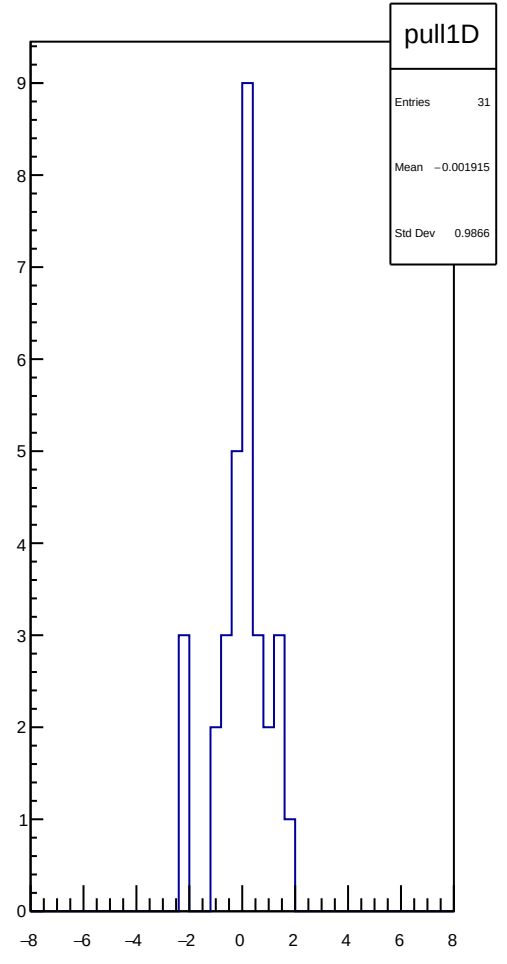
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1320
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.001915
Std Dev 0.9866
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8
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5
4
3
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1
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−4
−2
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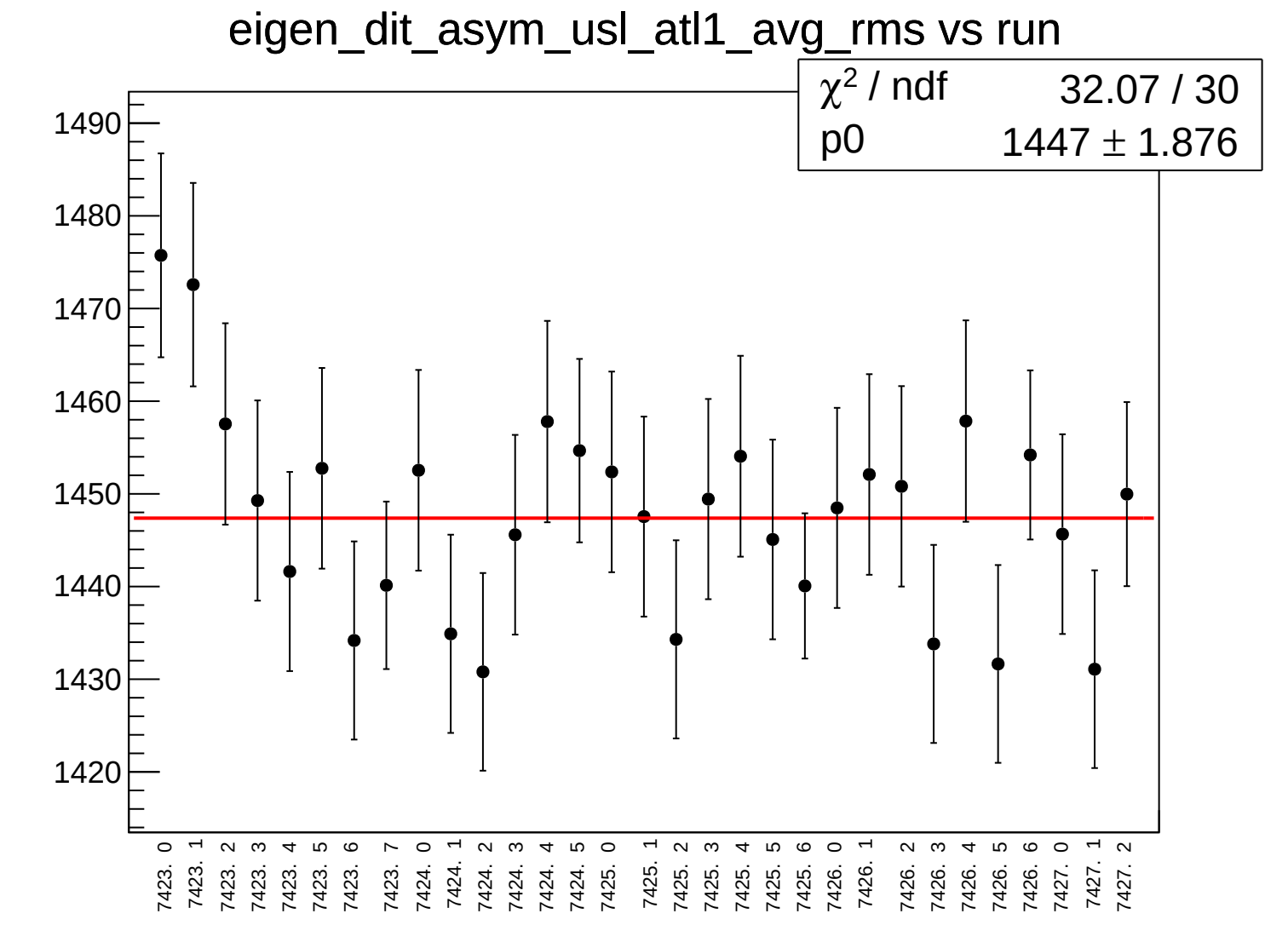
2
4
6
8


eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 32.07 / 30
p0 1447 ± 1.876
1490
1480
1470
1460
1450
1440
1430
1420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
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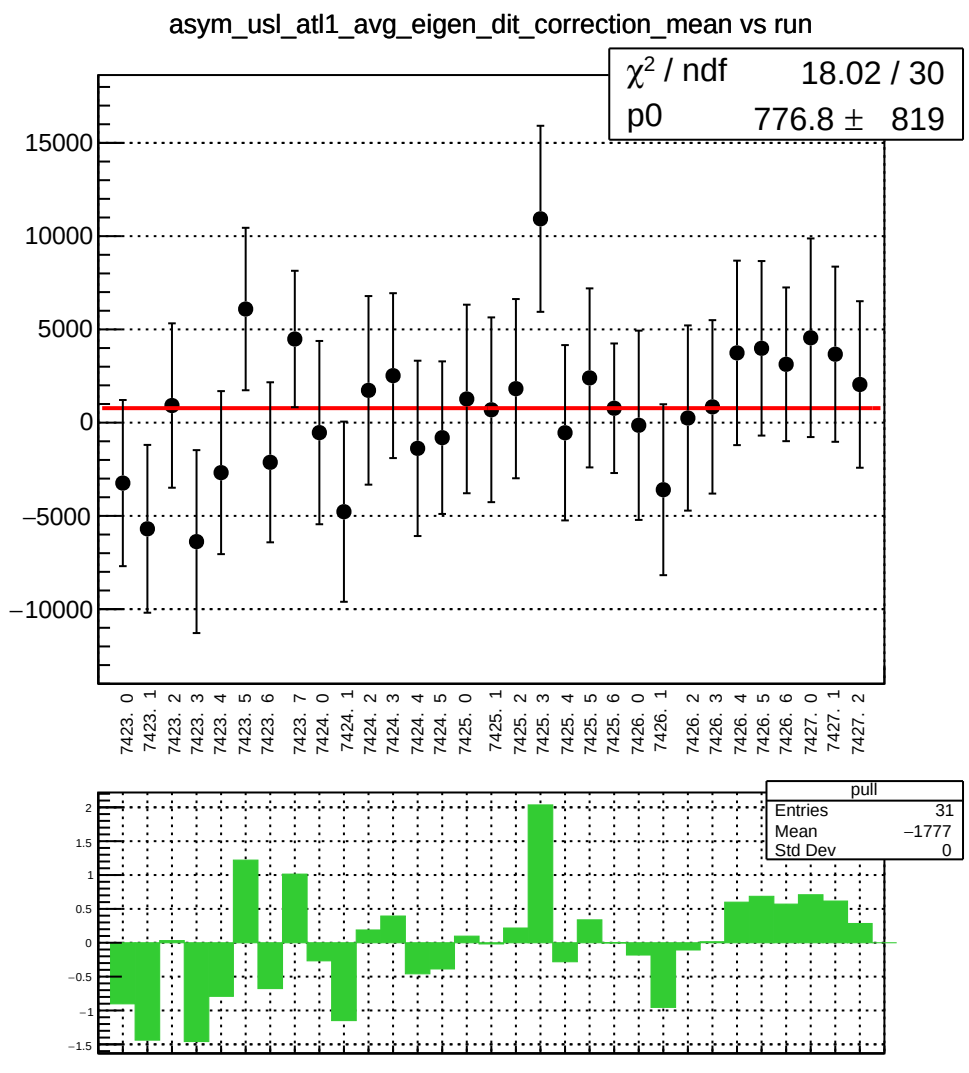
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 18.02 / 30
p0 776.8 ± 819
15000
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
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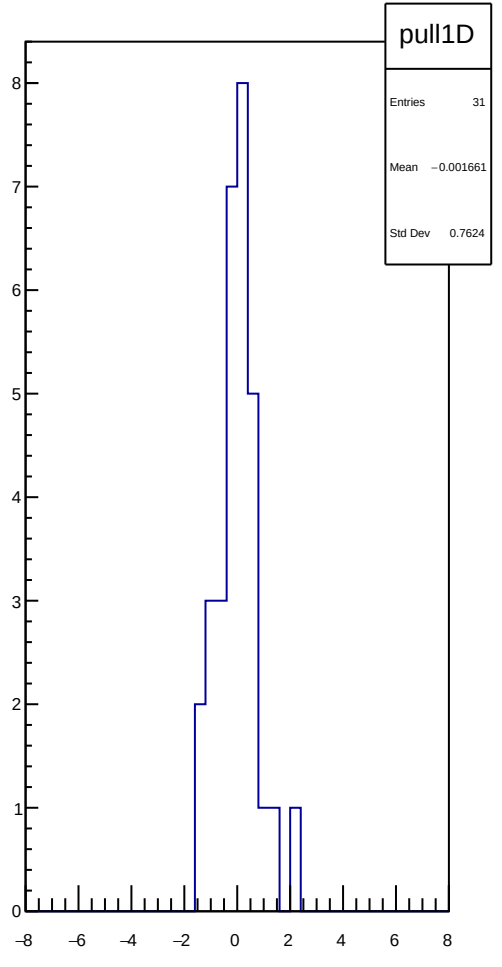
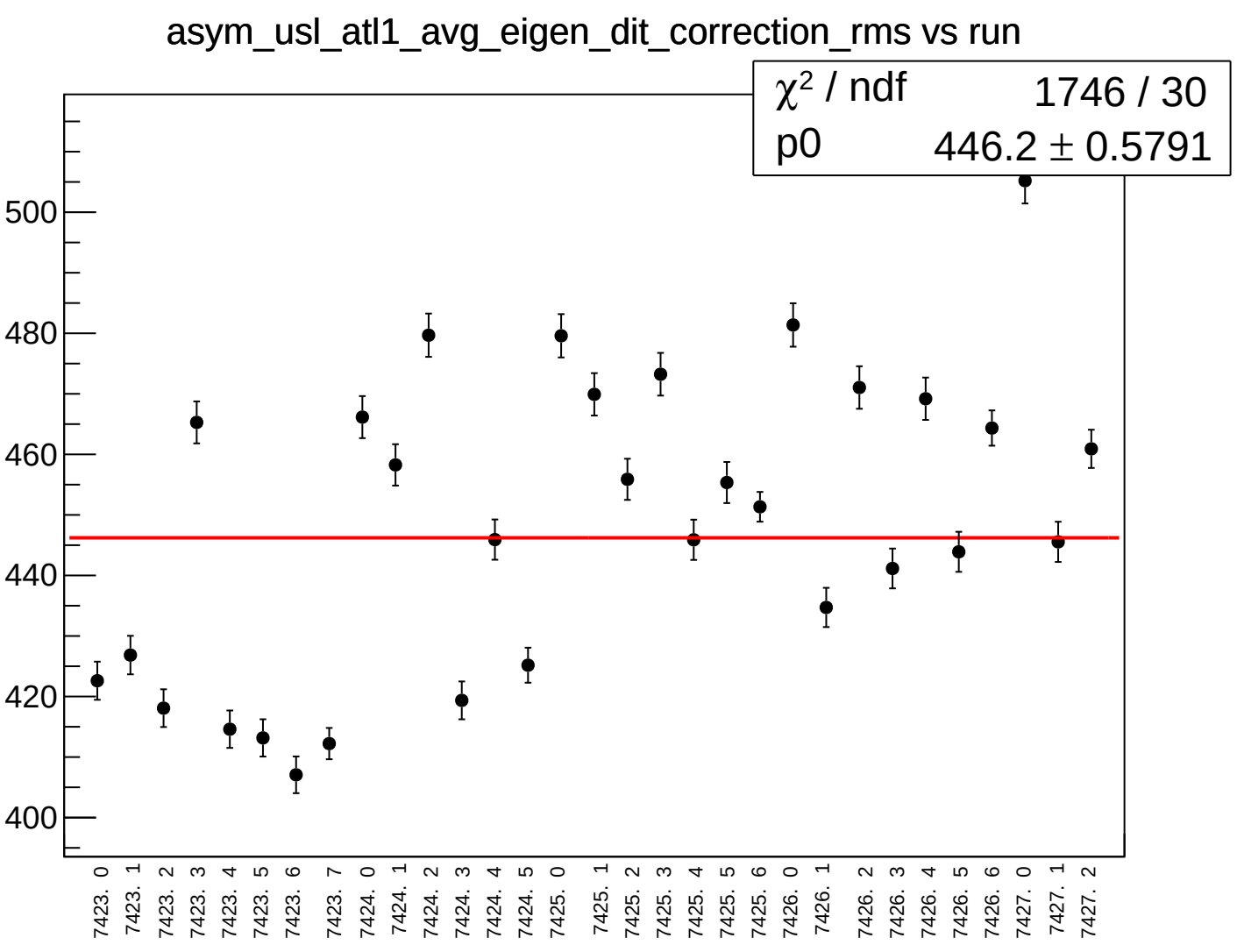
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1777
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean −0.001661
Std Dev 0.7624
8
7
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 1746 / 30
p0 446.2 ± 0.5791
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
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7426. 2
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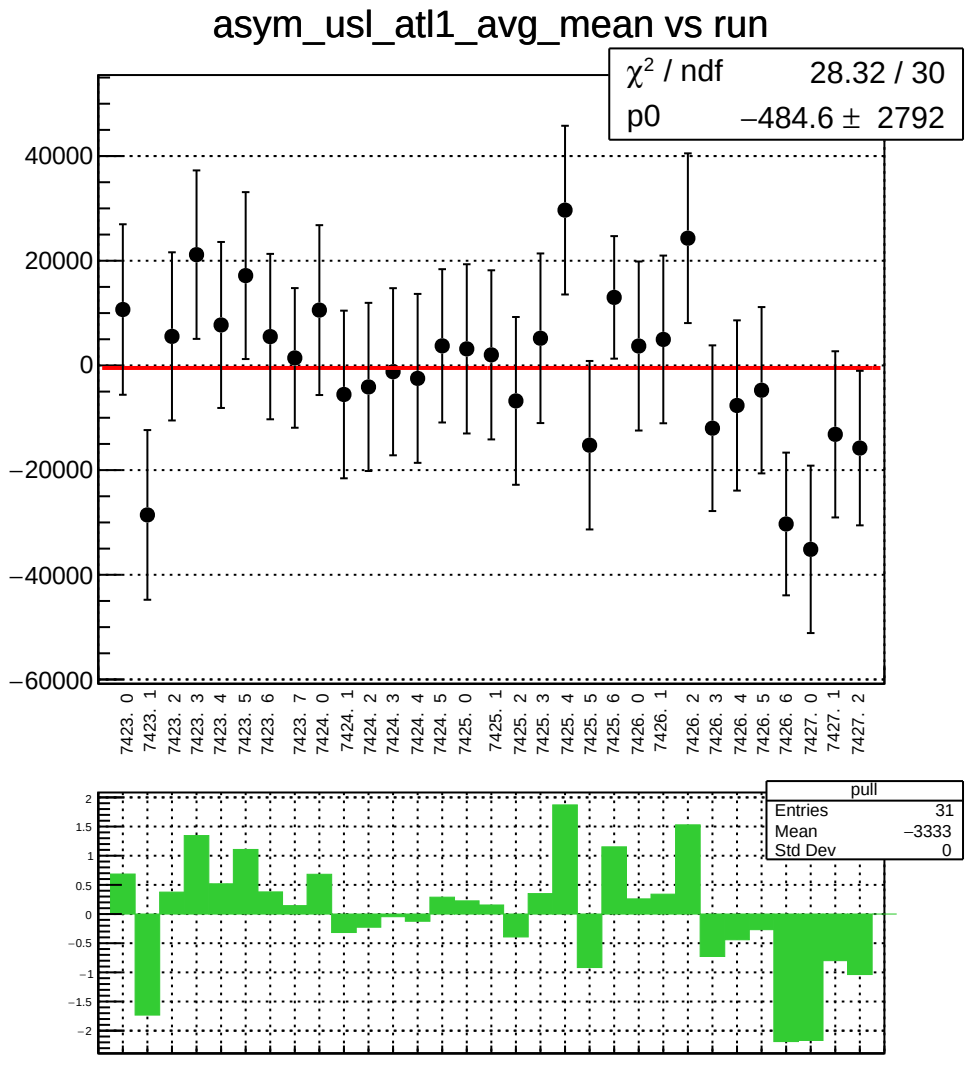
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_usl_atl1_avg_mean vs run
χ² / ndf 28.32 / 30
p0 −484.6 ± 2792
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
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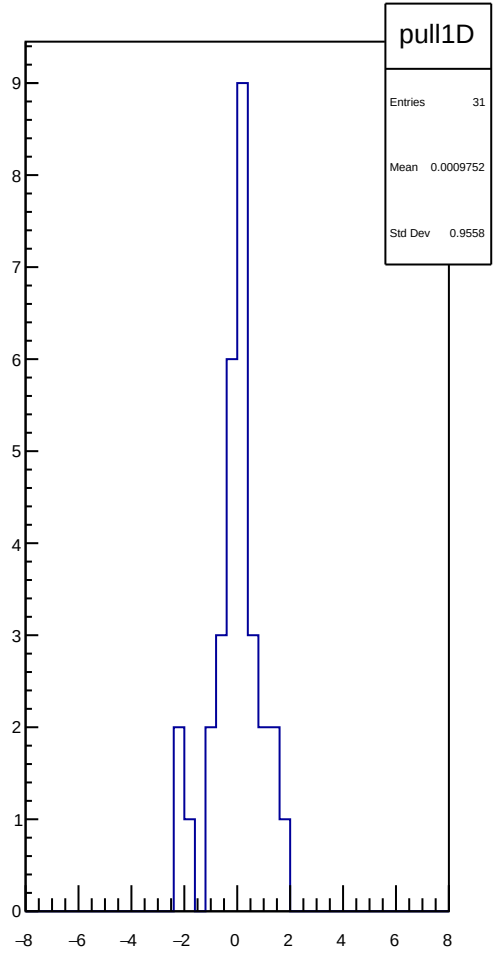
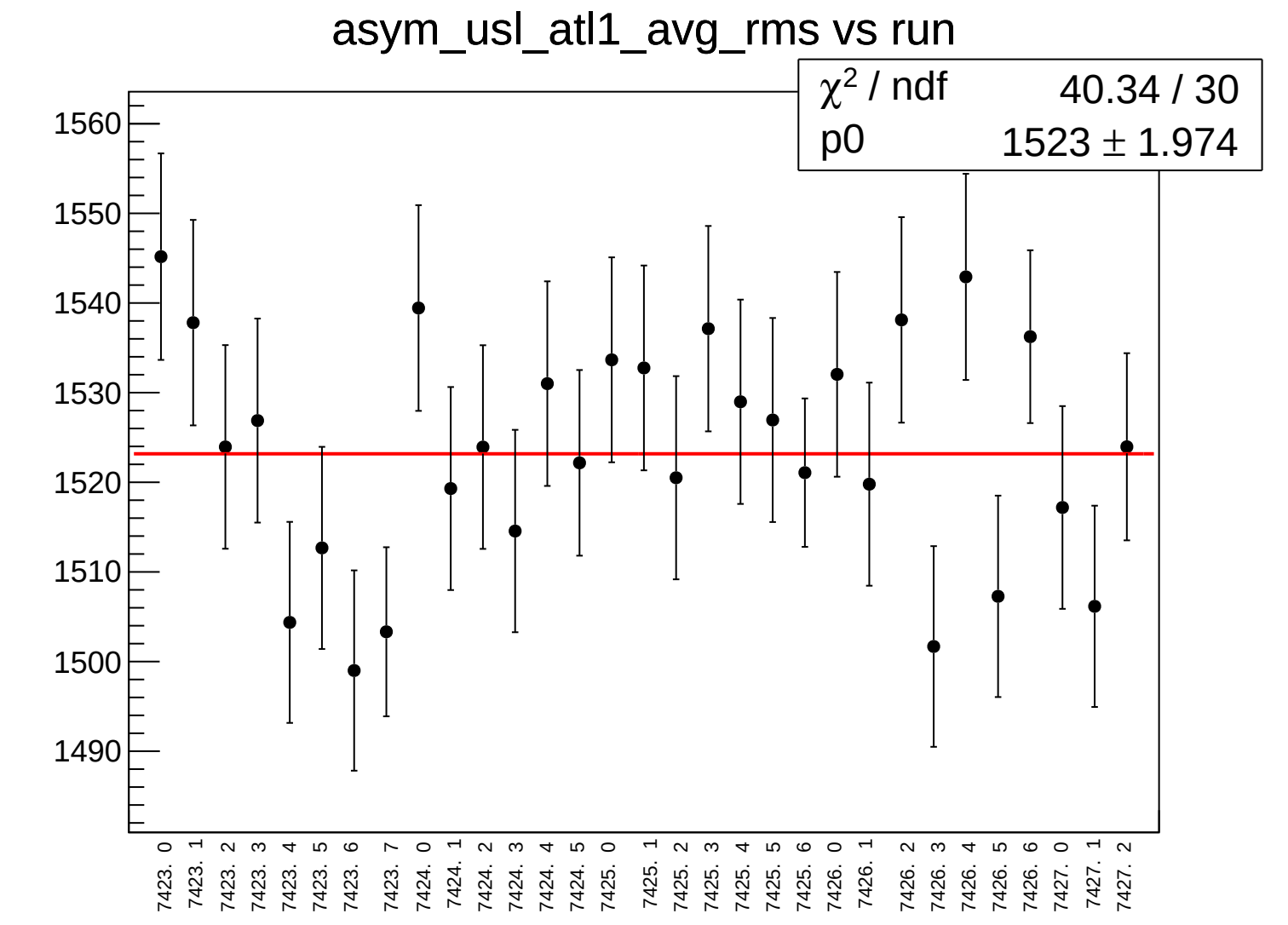
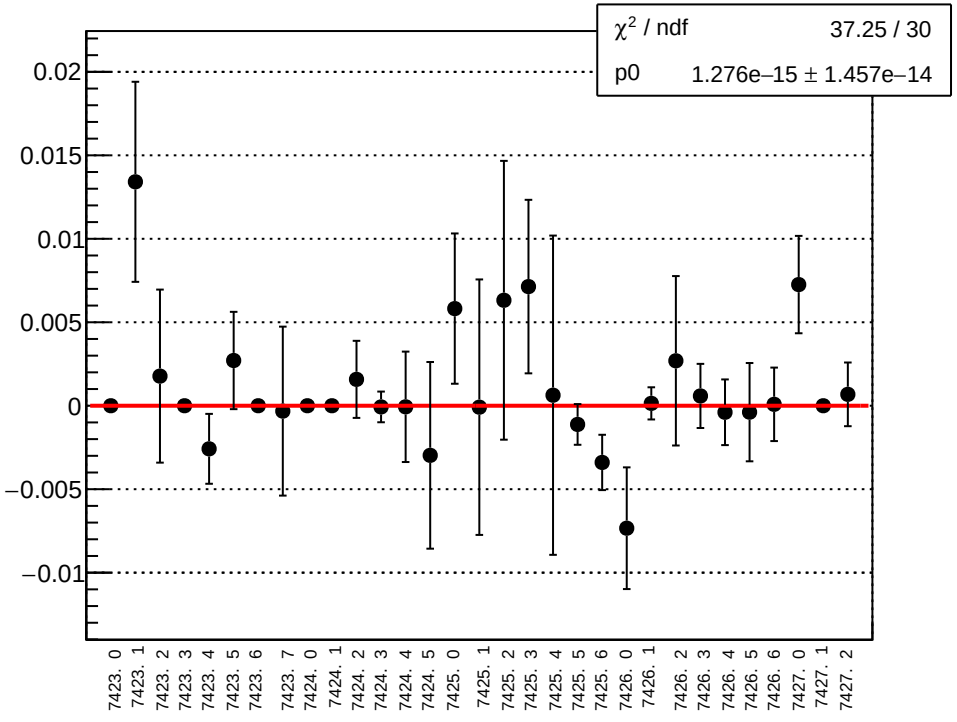
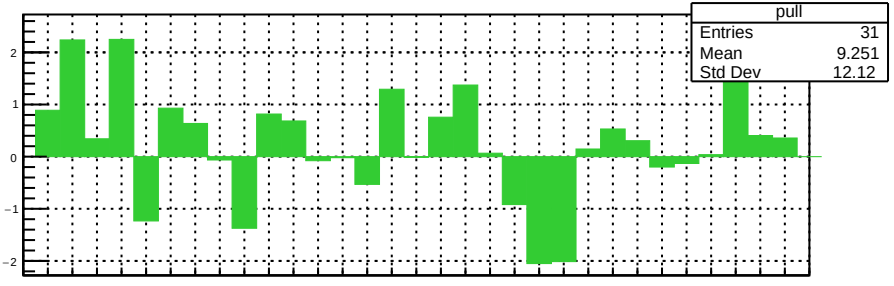
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −3333
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

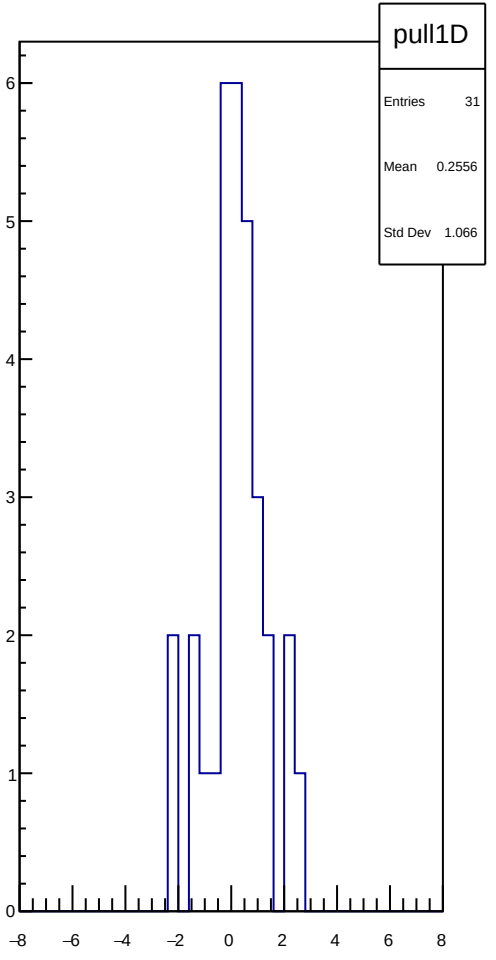

pull1D
Entries 31
Mean 0.0009752
Std Dev 0.9558
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

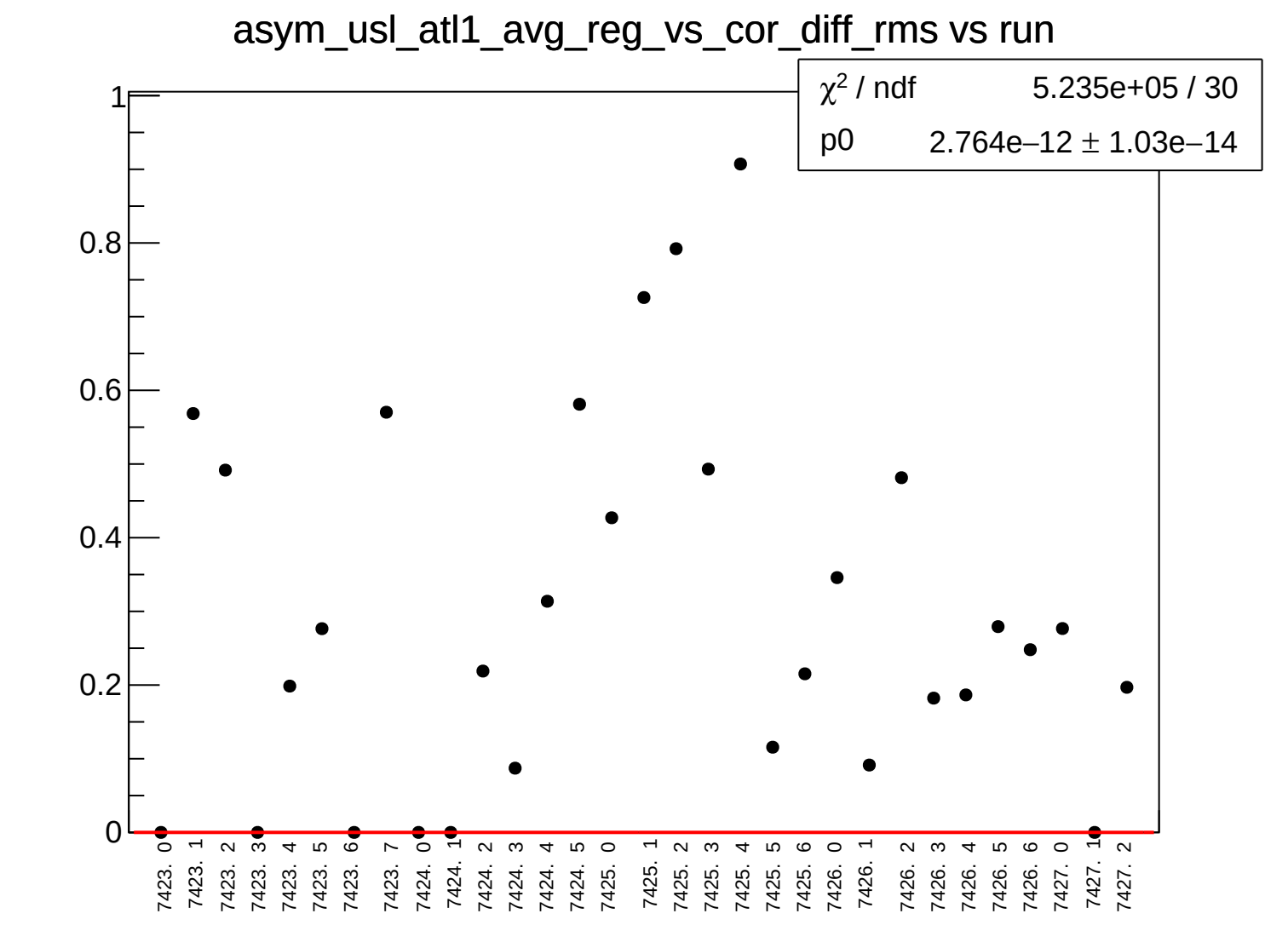

asym_usl_atl1_avg_rms vs run
χ² / ndf 40.34 / 30
p0 1523 ± 1.974
1560
1550
1540
1530
1520
1510
1500
1490
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

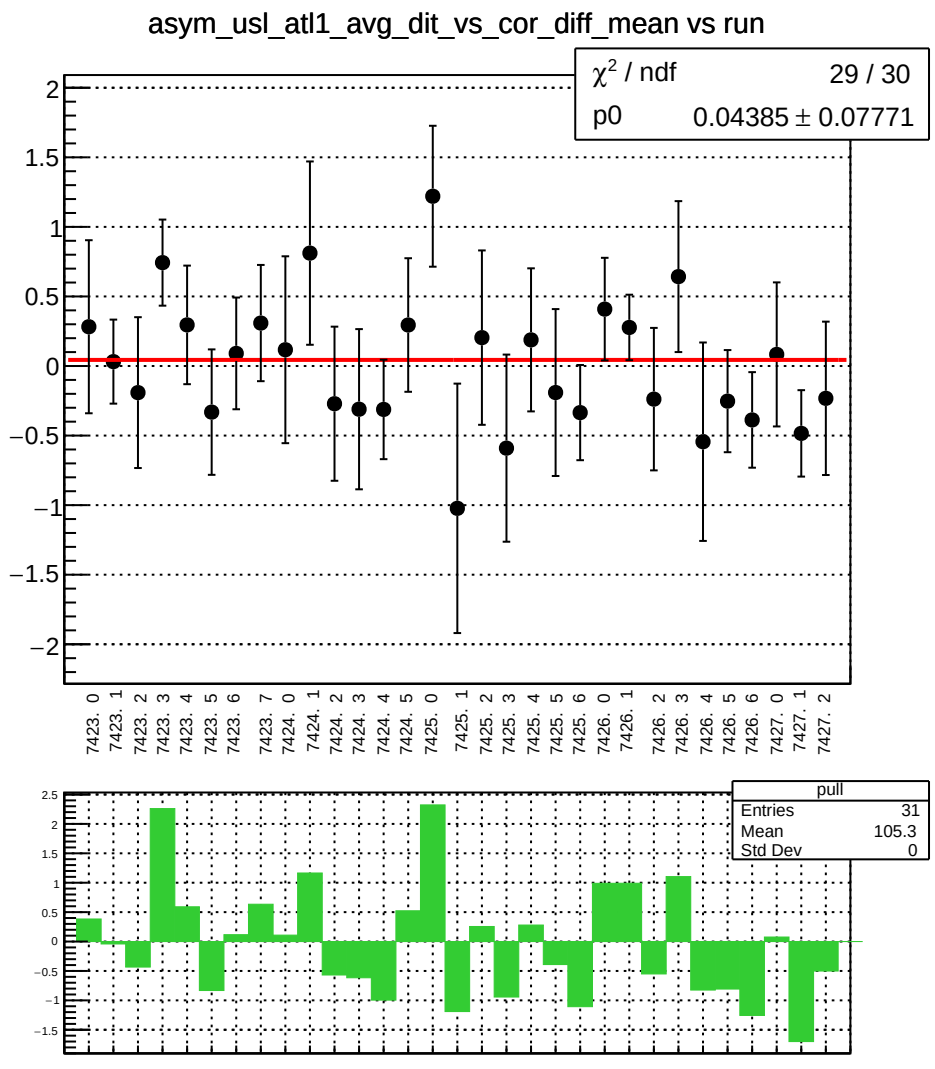
asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run

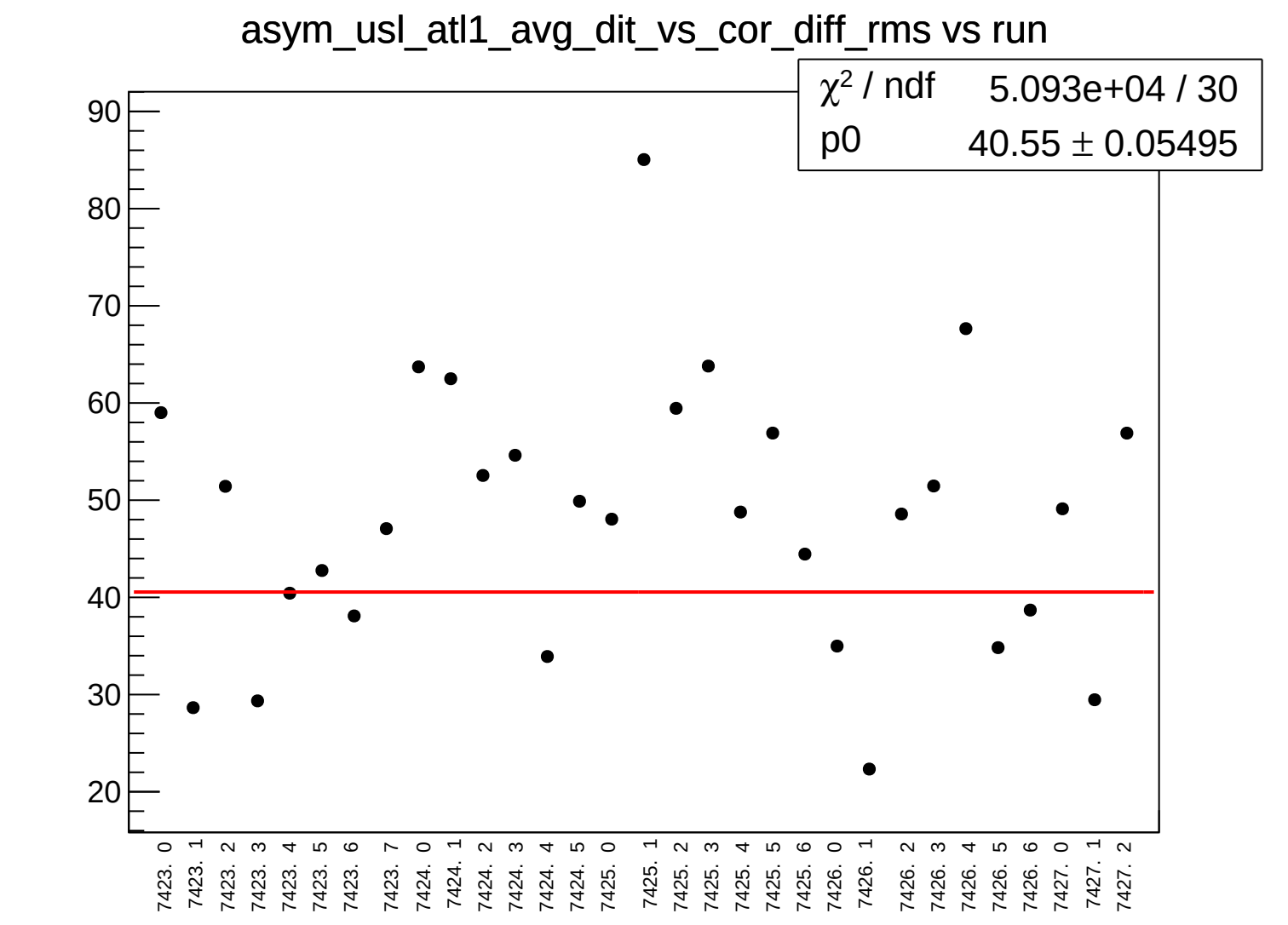


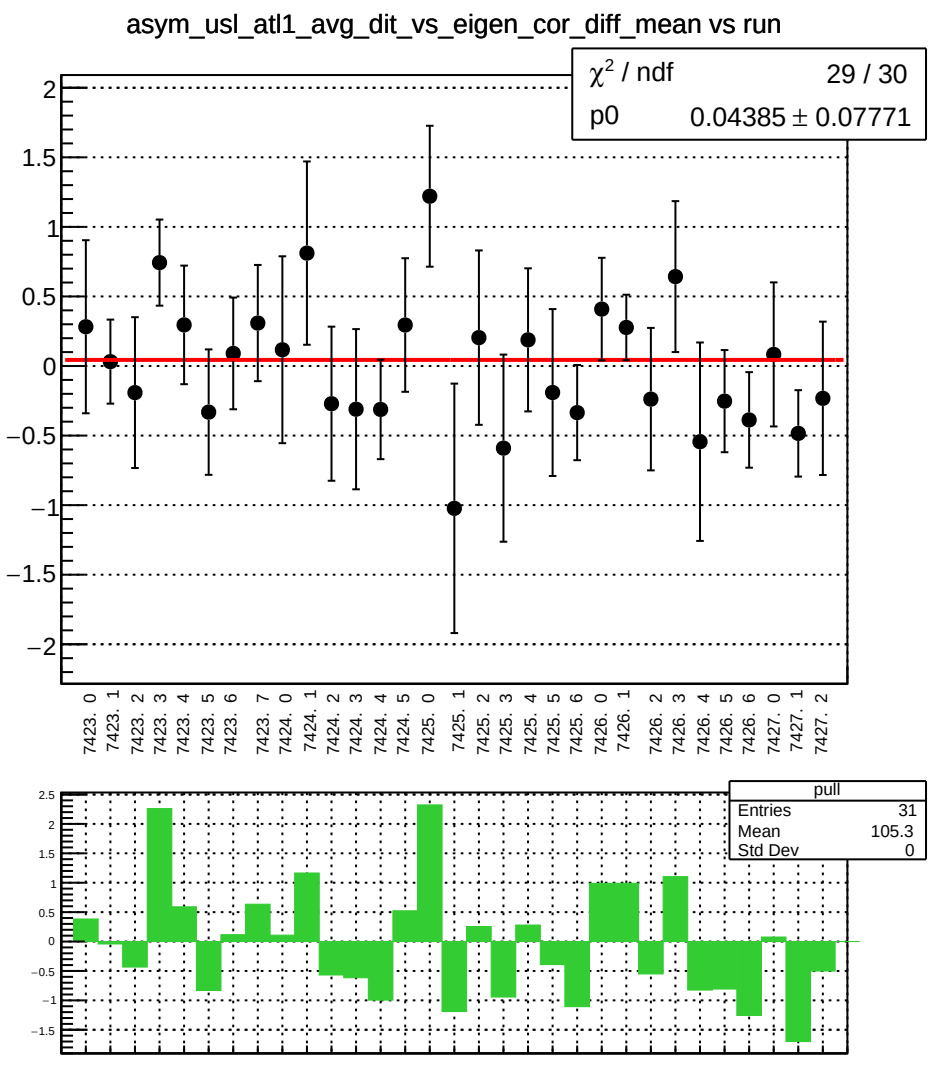


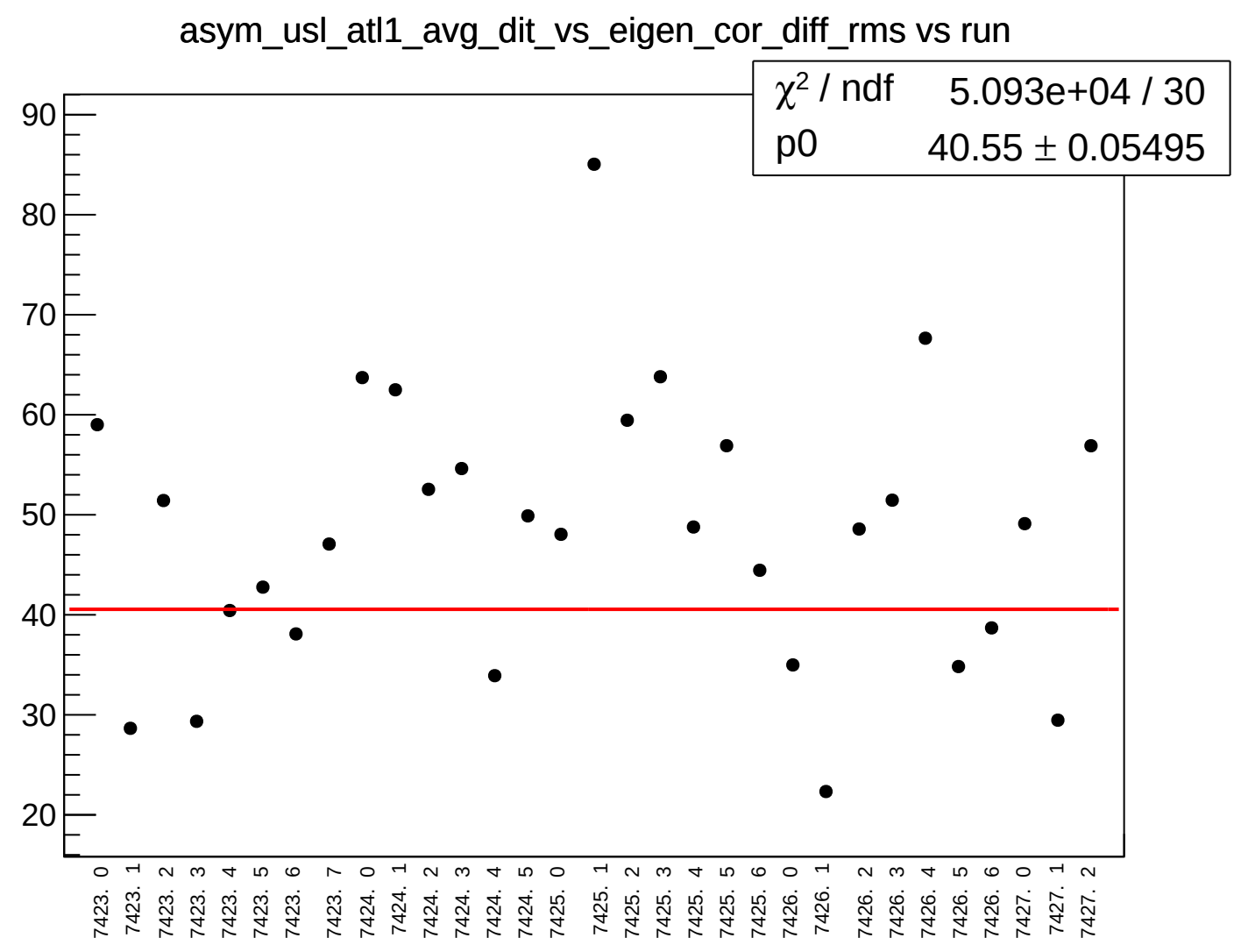


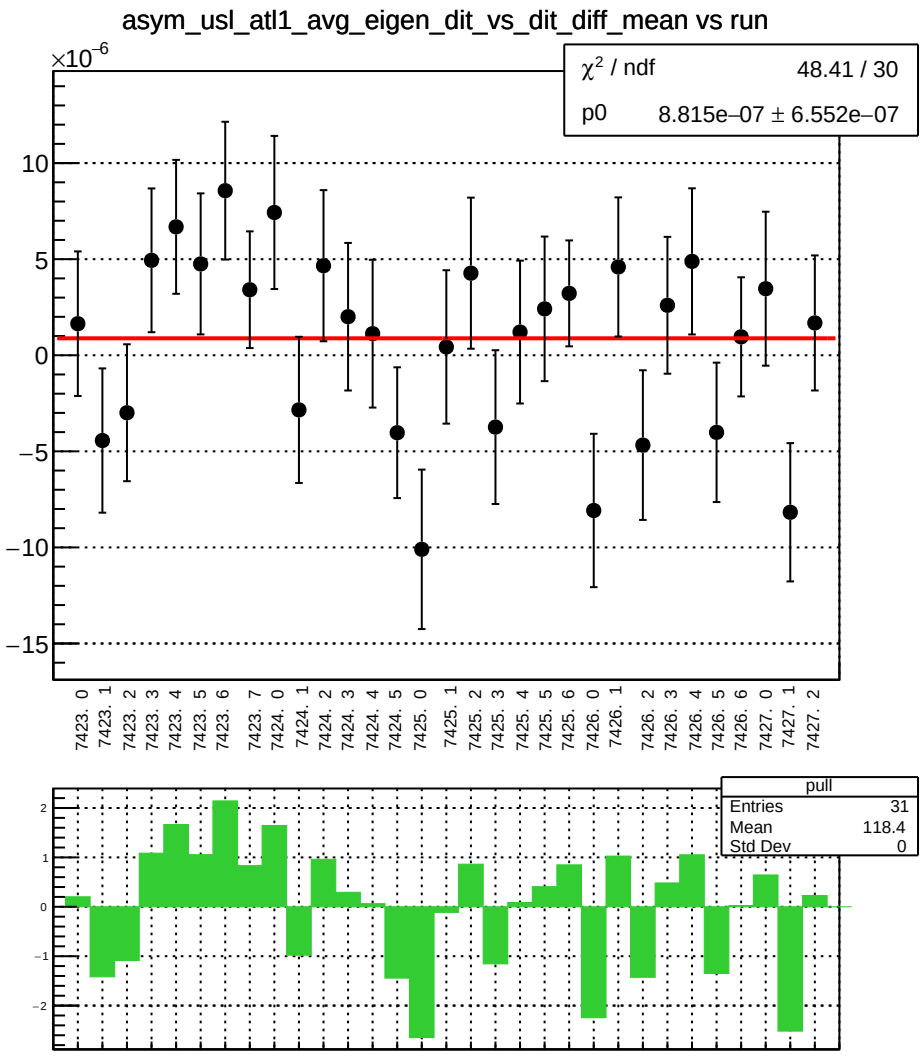

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.235e+05 / 30
p0 2.764e−12 ± 1.03e−14
1
0.8
0.6
0.4
0.2
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

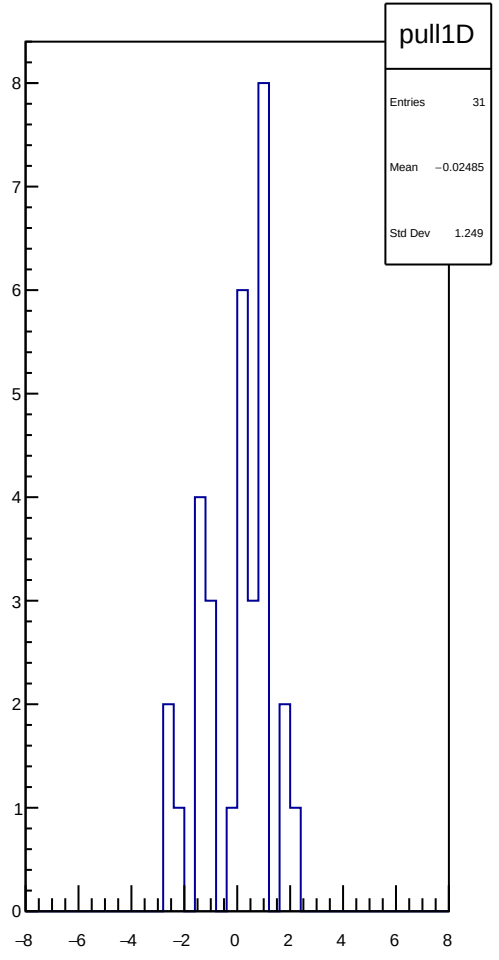

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29 / 30
p0 0.04385 ± 0.07771
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 105.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.03083
Std Dev 0.9667
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

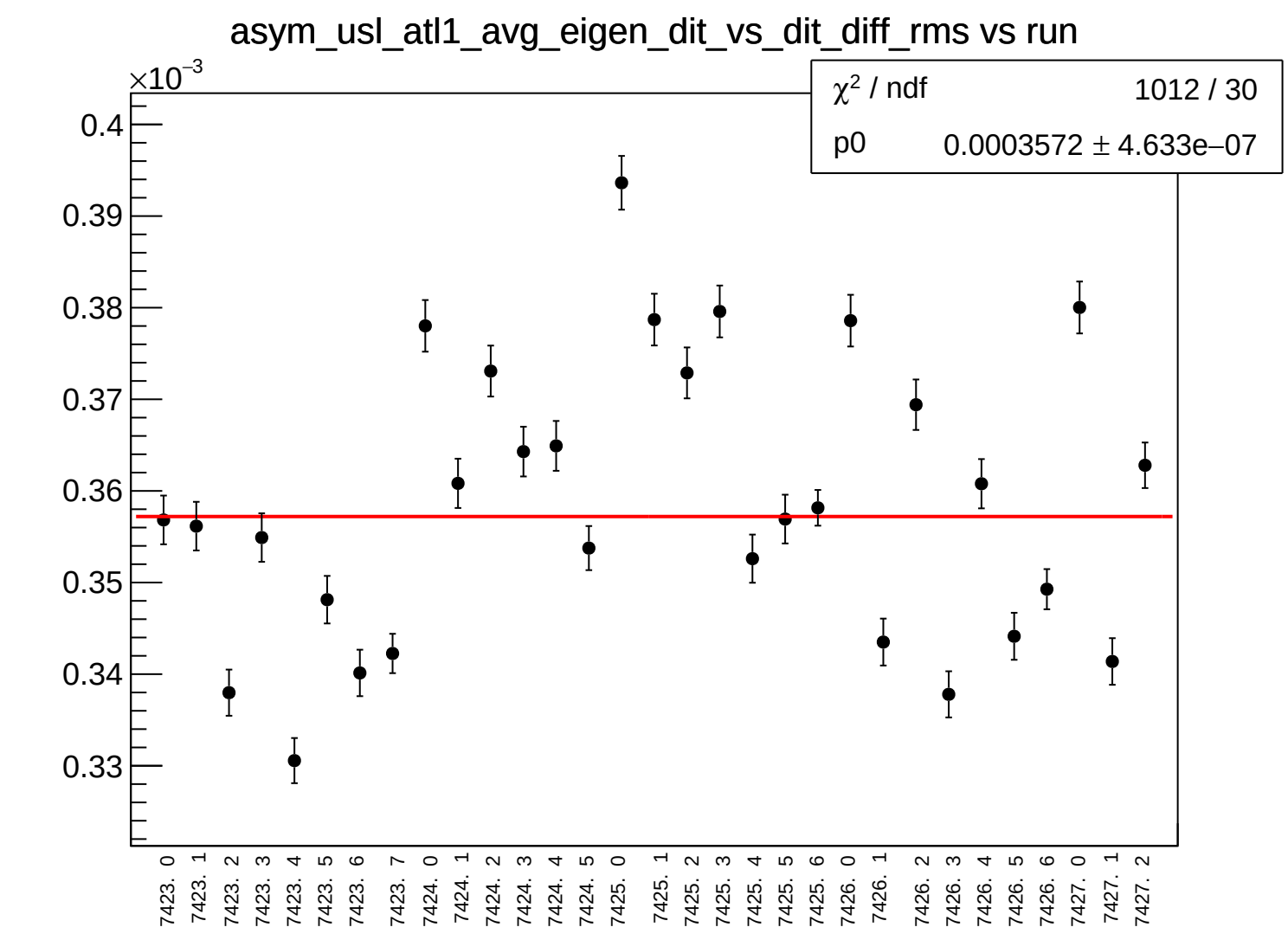

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.093e+04 / 30
p0 40.55 ± 0.05495
90
80
70
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

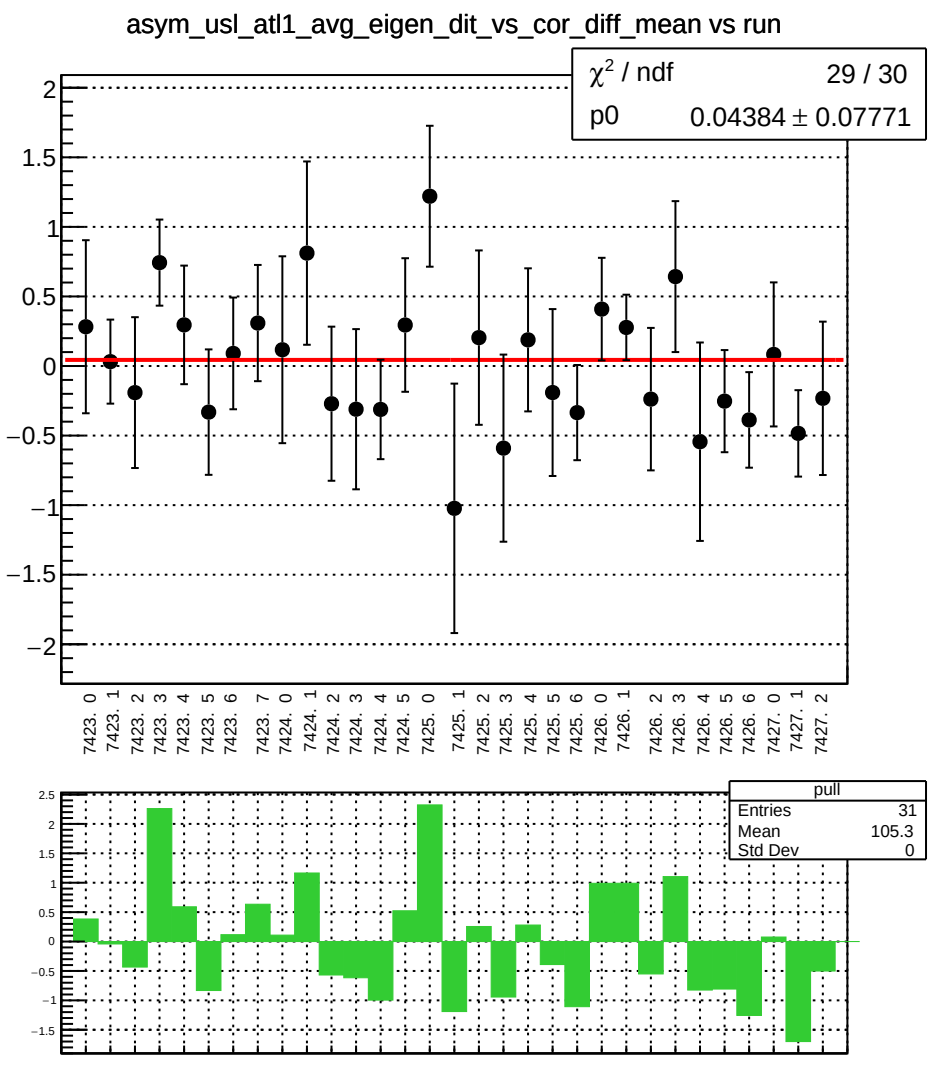

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29 / 30
p0 0.04385 ± 0.07771
pull
Entries 31
Mean 105.3
Std Dev 0
pull1D
Entries 31
Mean −0.03083
Std Dev 0.9667

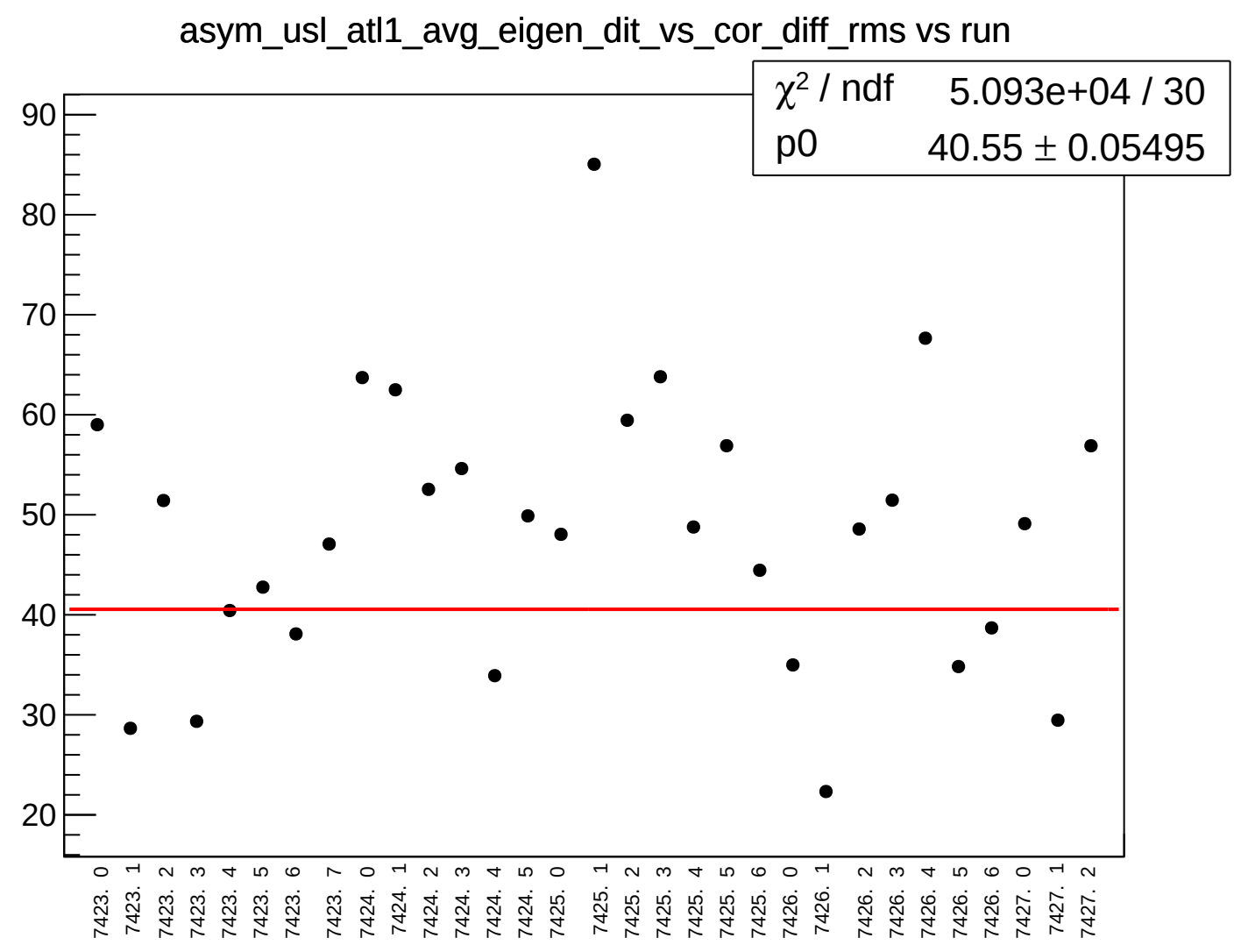

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.093e+04 / 30
p0 40.55 ± 0.05495
90
80
70
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

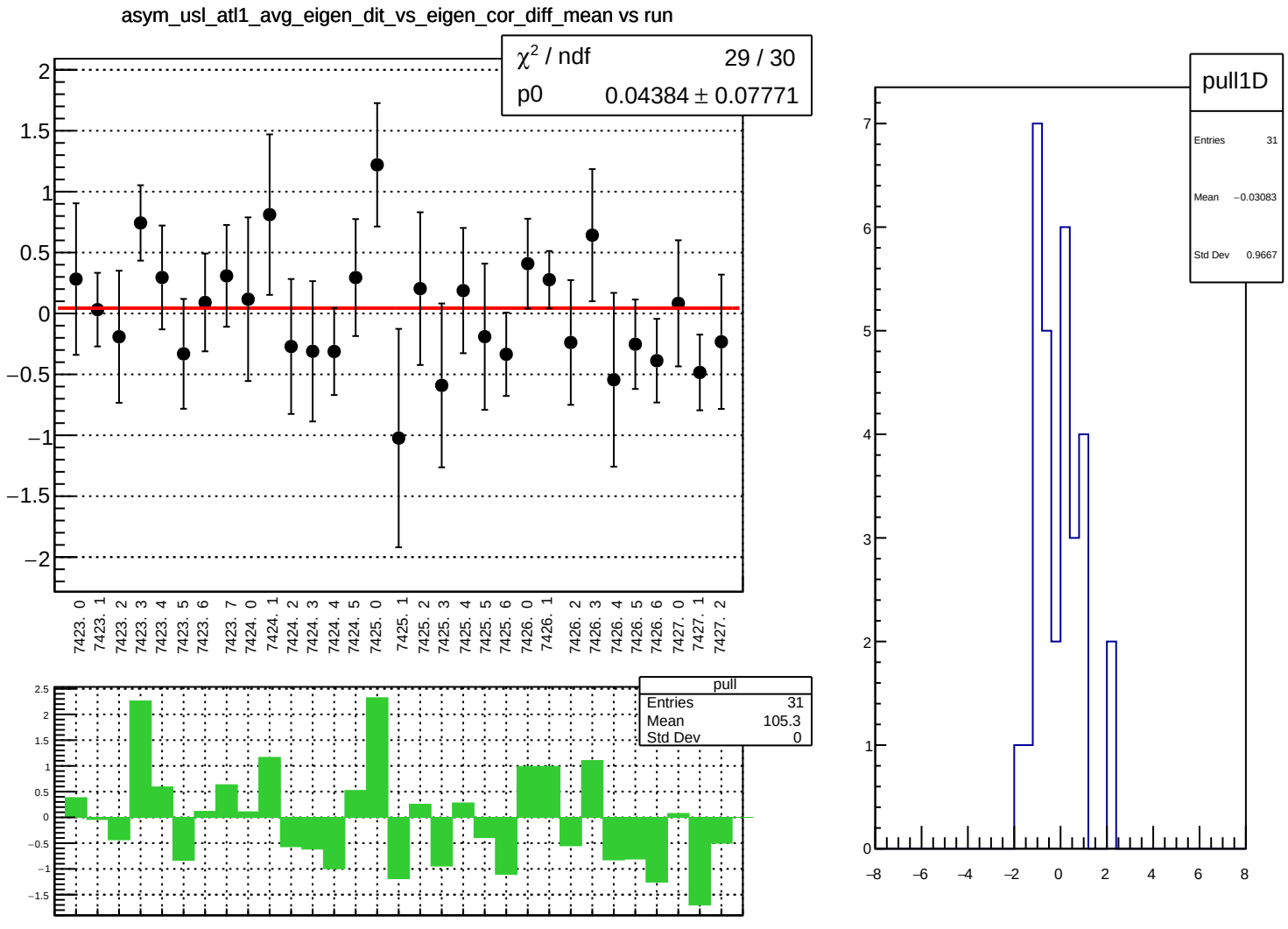

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 48.41 / 30
p0 8.815e−07 ± 6.552e−07
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 118.4
Std Dev 0
2
1
0
−1
−2

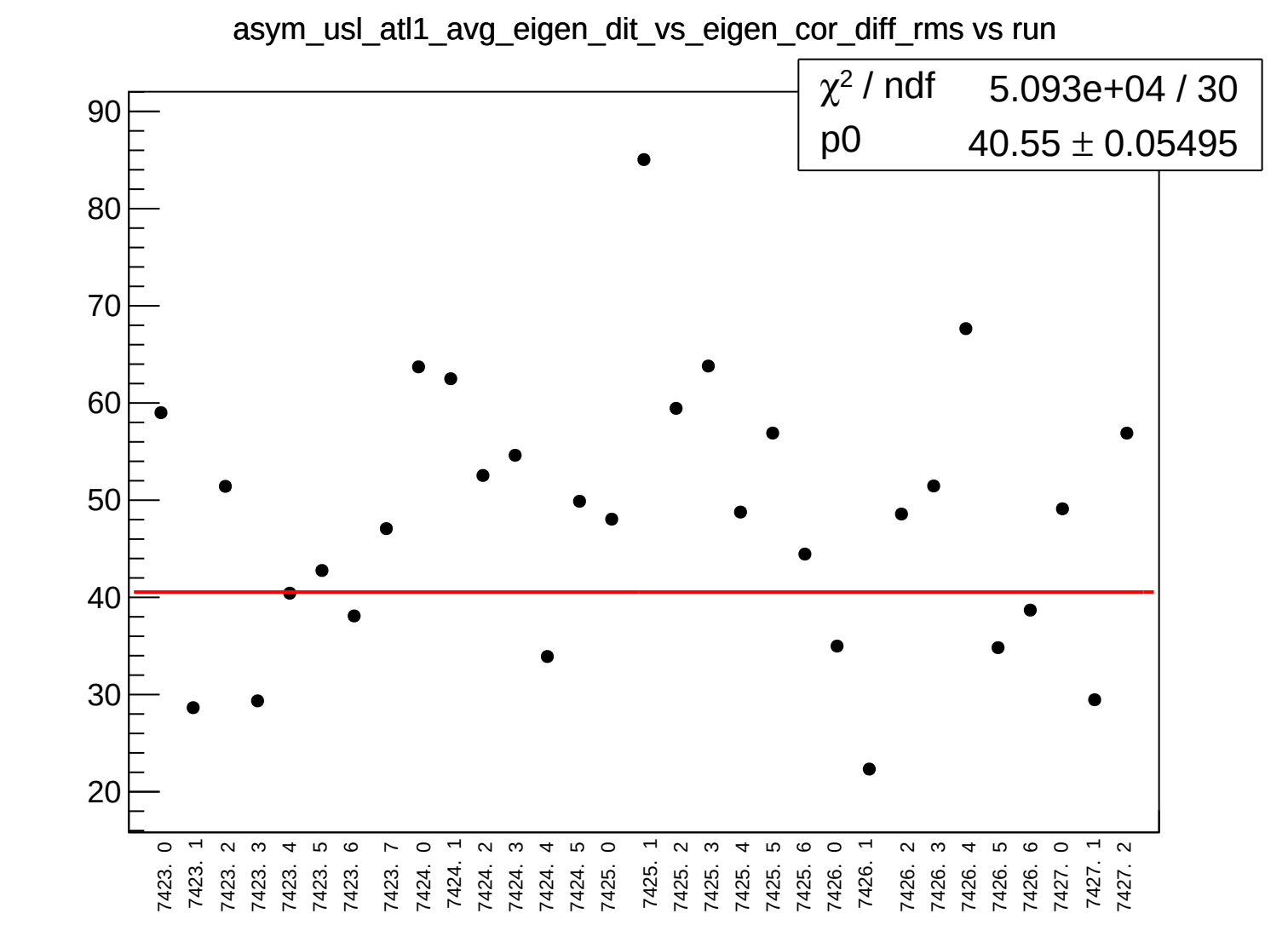

pull1D
Entries 31
Mean −0.02485
Std Dev 1.249
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

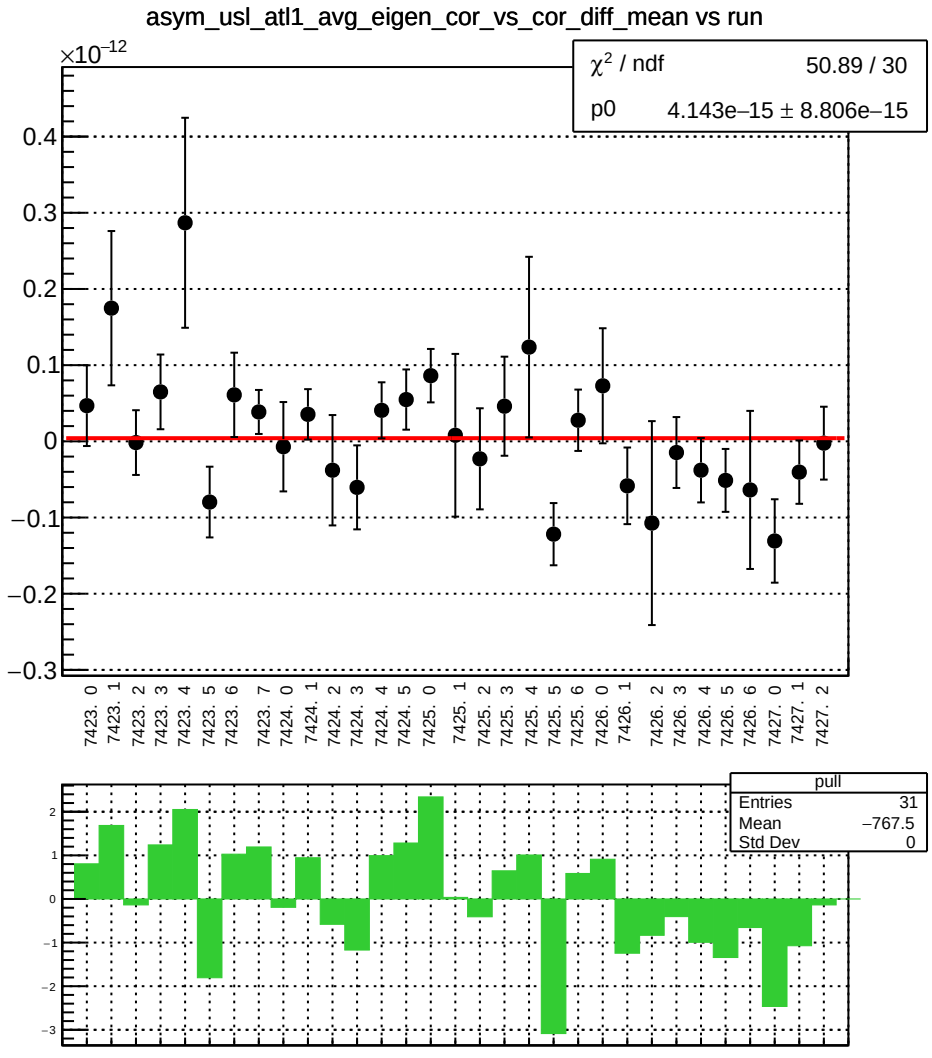

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1012 / 30
p0 0.0003572 ± 4.633e−07
0.4
0.39
0.38
0.37
0.36
0.35
0.34
0.33
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

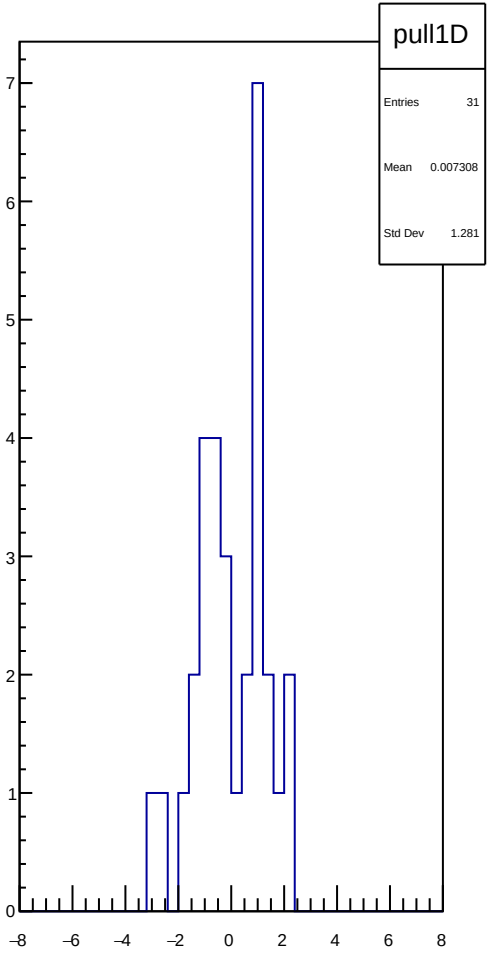

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29 / 30
p0 0.04384 ± 0.07771
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 105.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.03083
Std Dev 0.9667
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

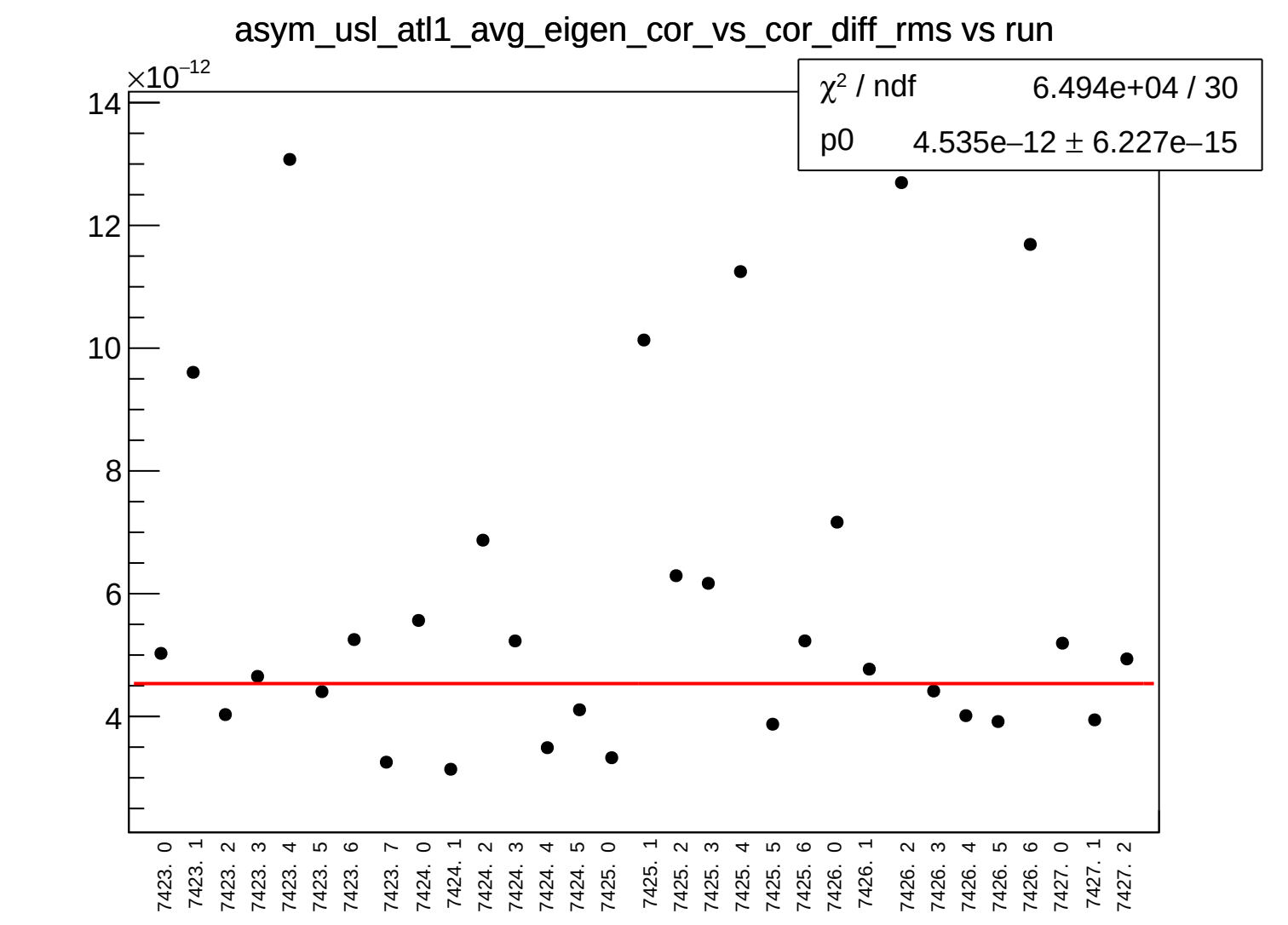

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.093e+04 / 30
p0 40.55 ± 0.05495
90
80
70
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

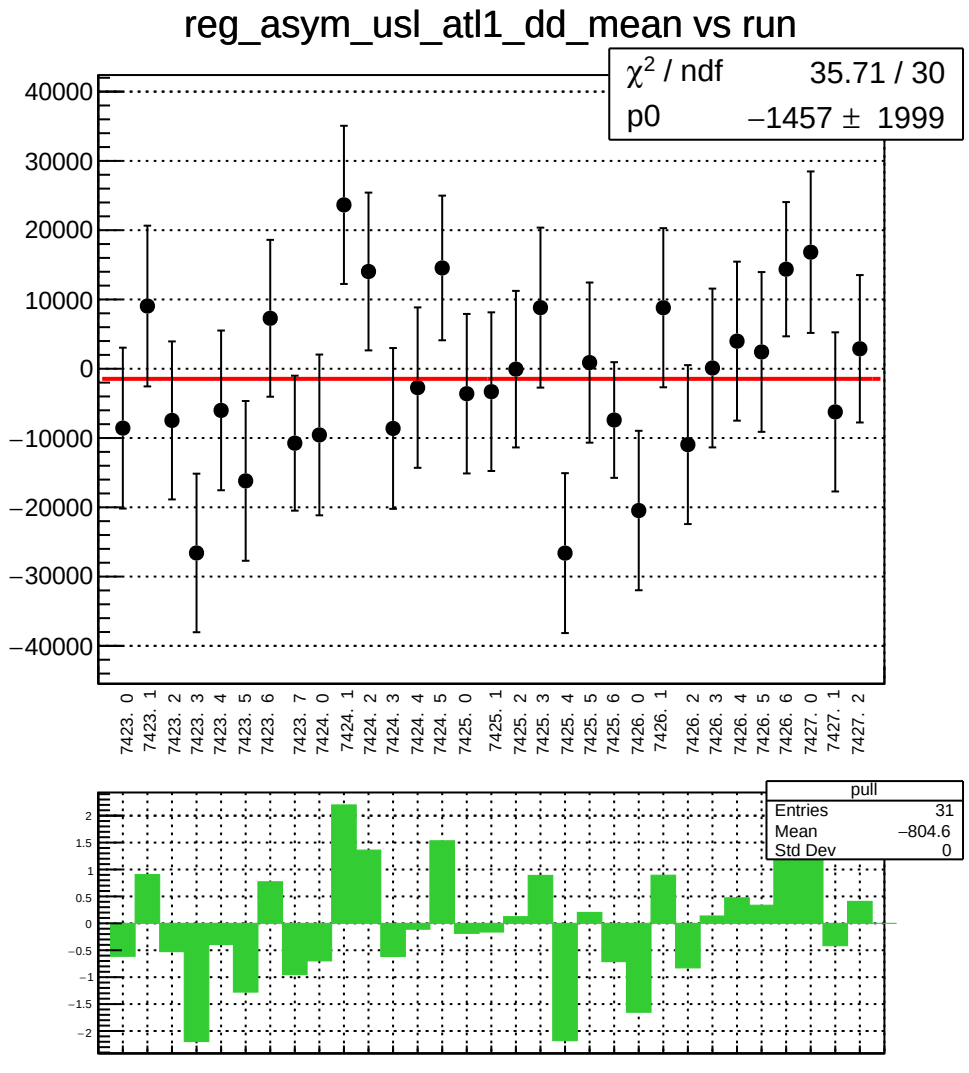

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29 / 30
p0 0.04384 ± 0.07771
pull
Entries 31
Mean 105.3
Std Dev 0
pull1D
Entries 31
Mean −0.03083
Std Dev 0.9667

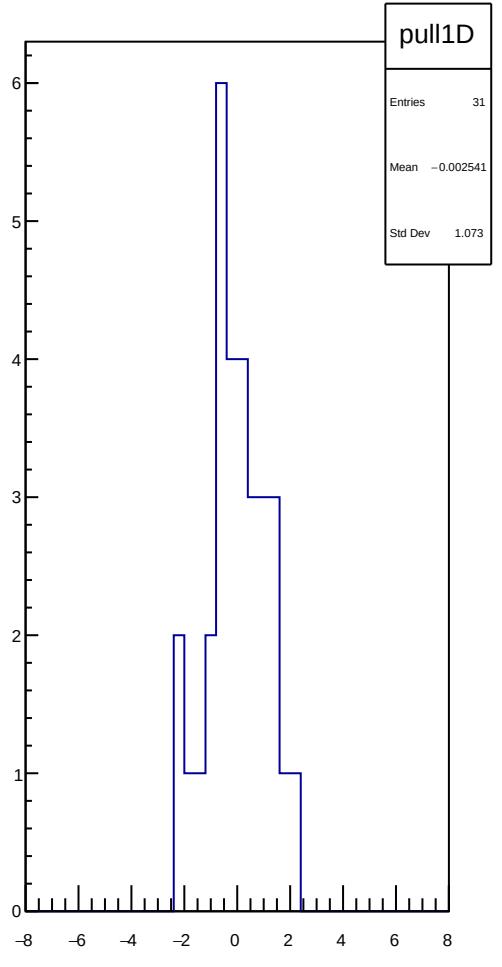

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.093e+04 / 30
p0 40.55 ± 0.05495
90
80
70
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

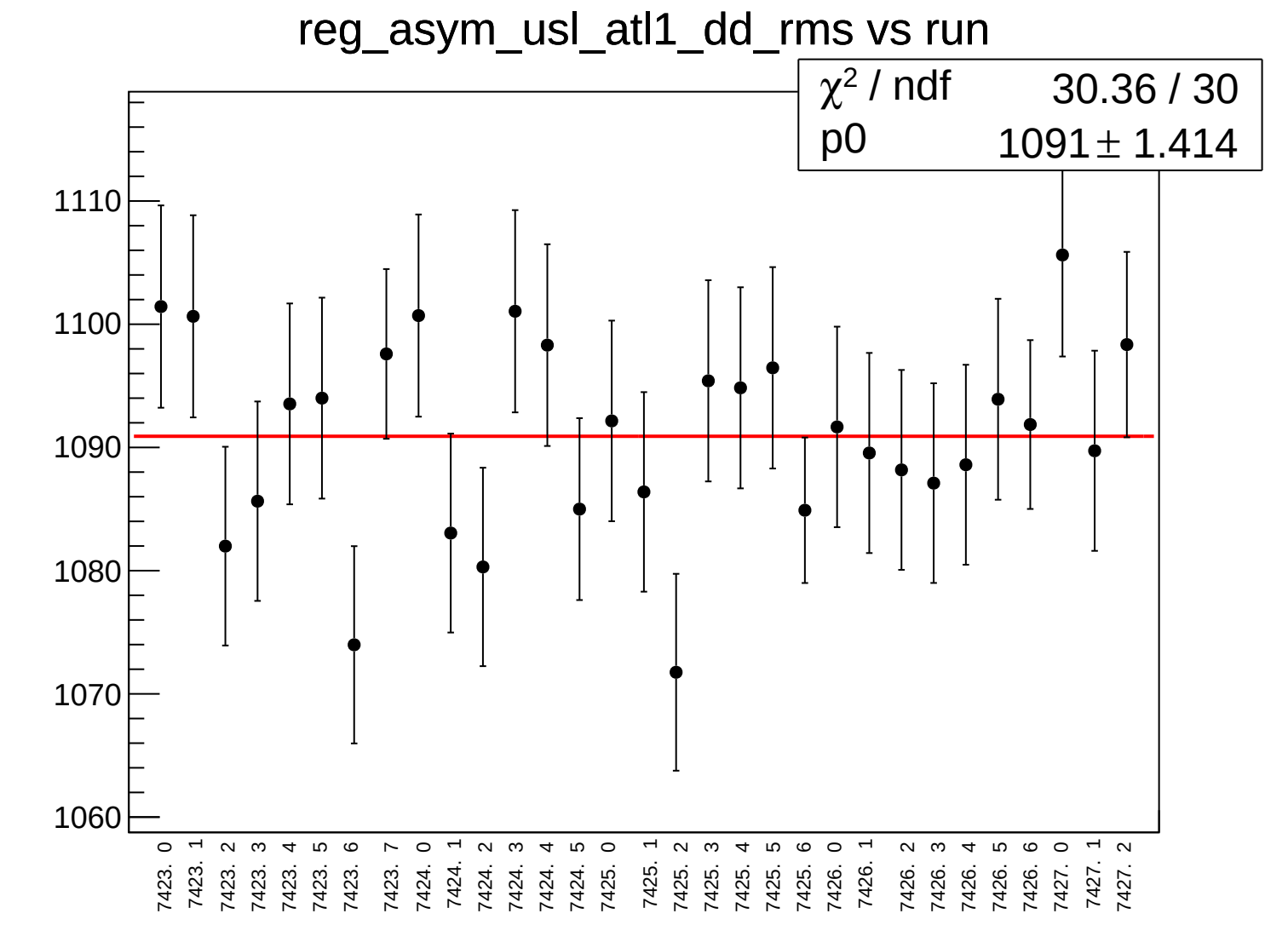

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 50.89 / 30
p0 4.143e−15 ± 8.806e−15
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −767.5
Std Dev 0
2
1
0
−1
−2
−3

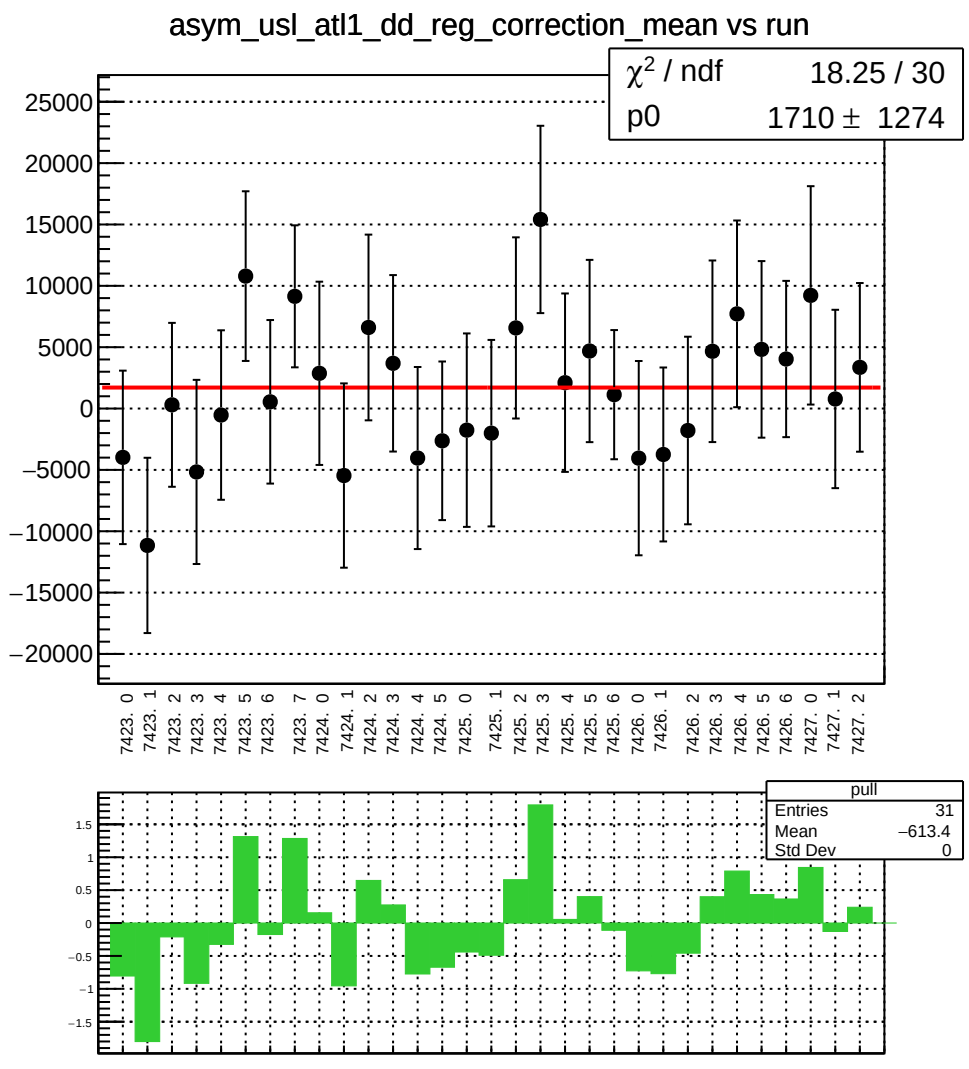

pull1D
Entries 31
Mean 0.007308
Std Dev 1.281
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

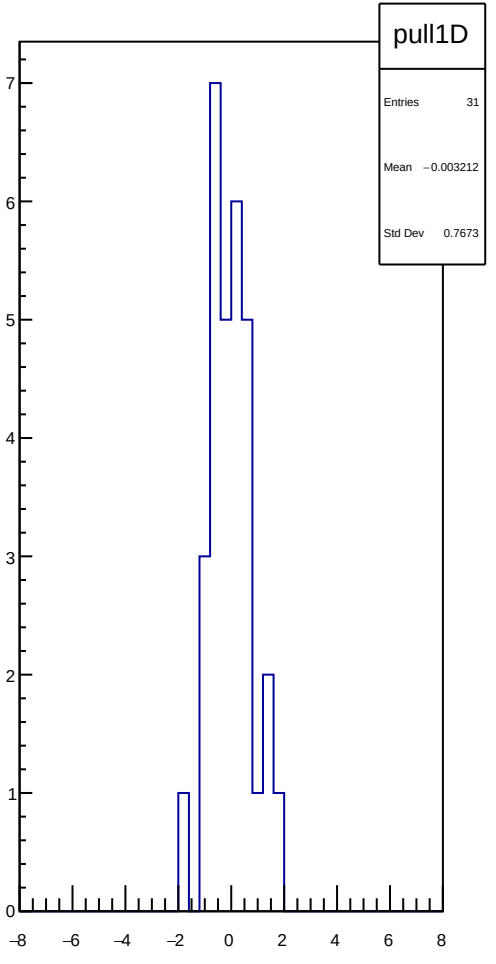

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.494e+04 / 30
p0 4.535e−12 ± 6.227e−15
14
12
10
8
6
4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

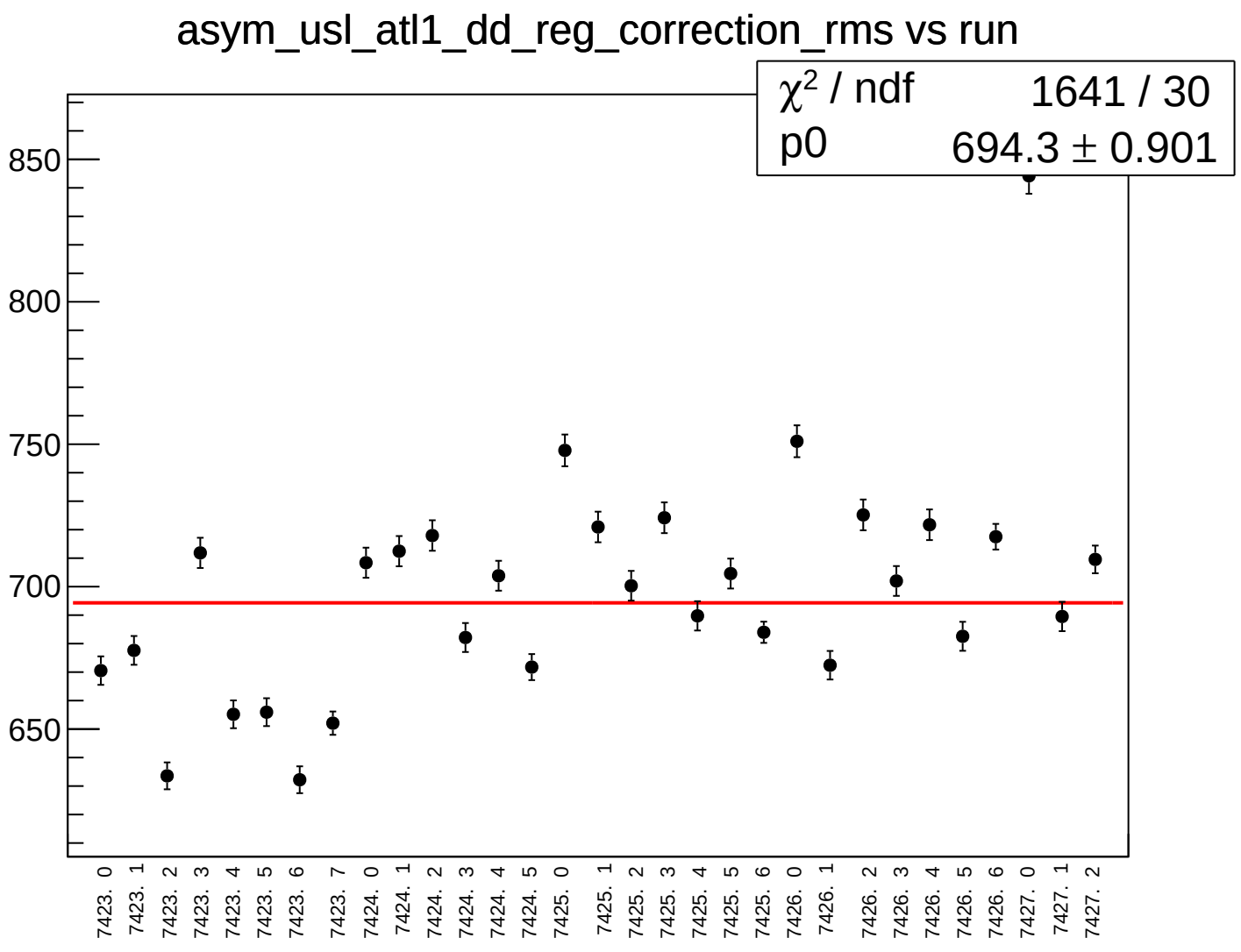

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 35.71 / 30
p0 −1457 ± 1999
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −804.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

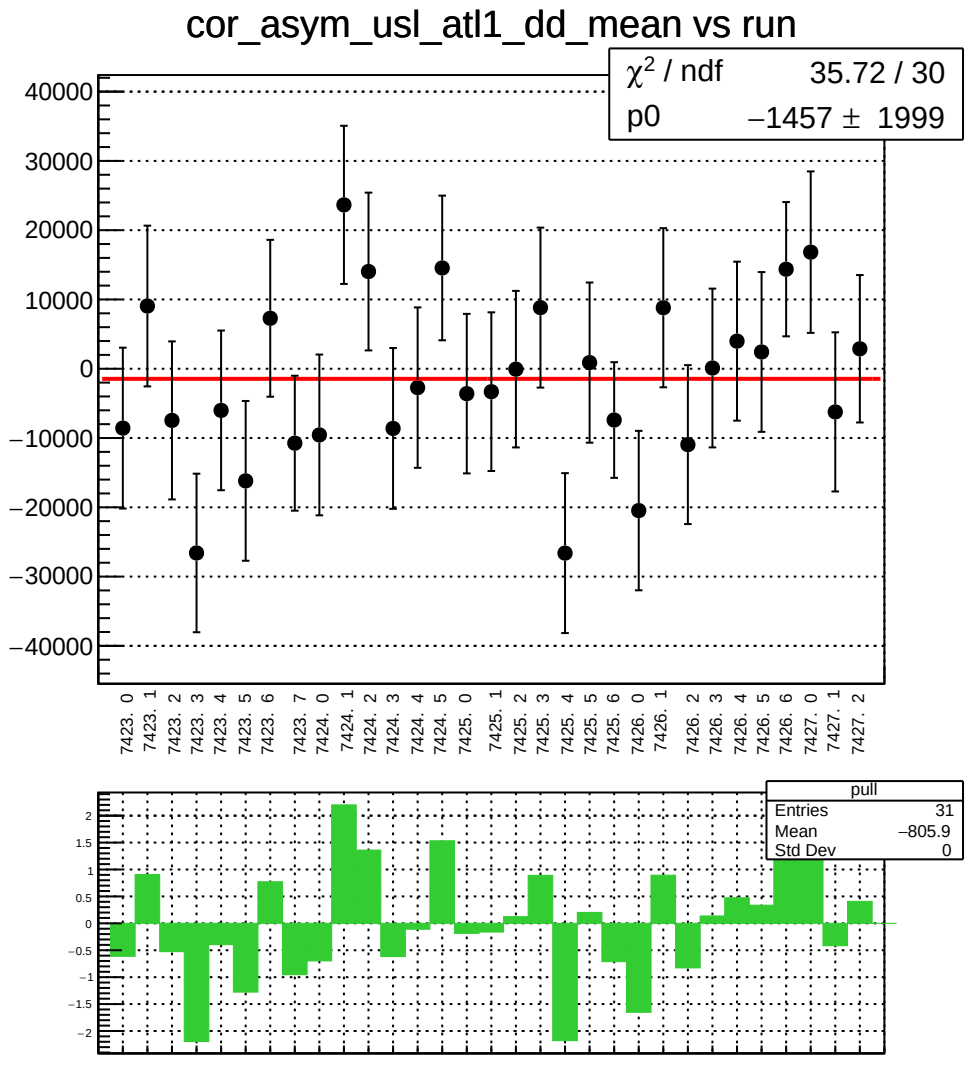

pull1D
Entries 31
Mean −0.002541
Std Dev 1.073
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

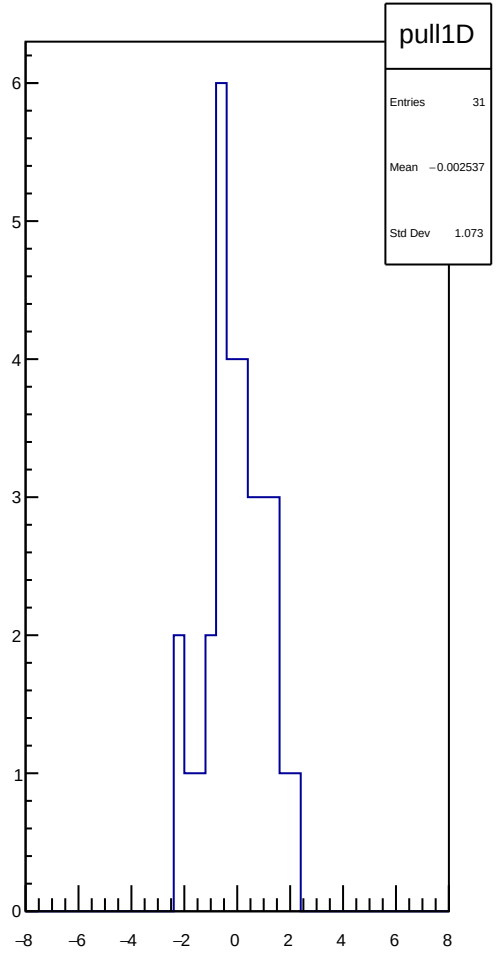

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 30.36 / 30
p0 1091 ± 1.414
1110
1100
1090
1080
1070
1060
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

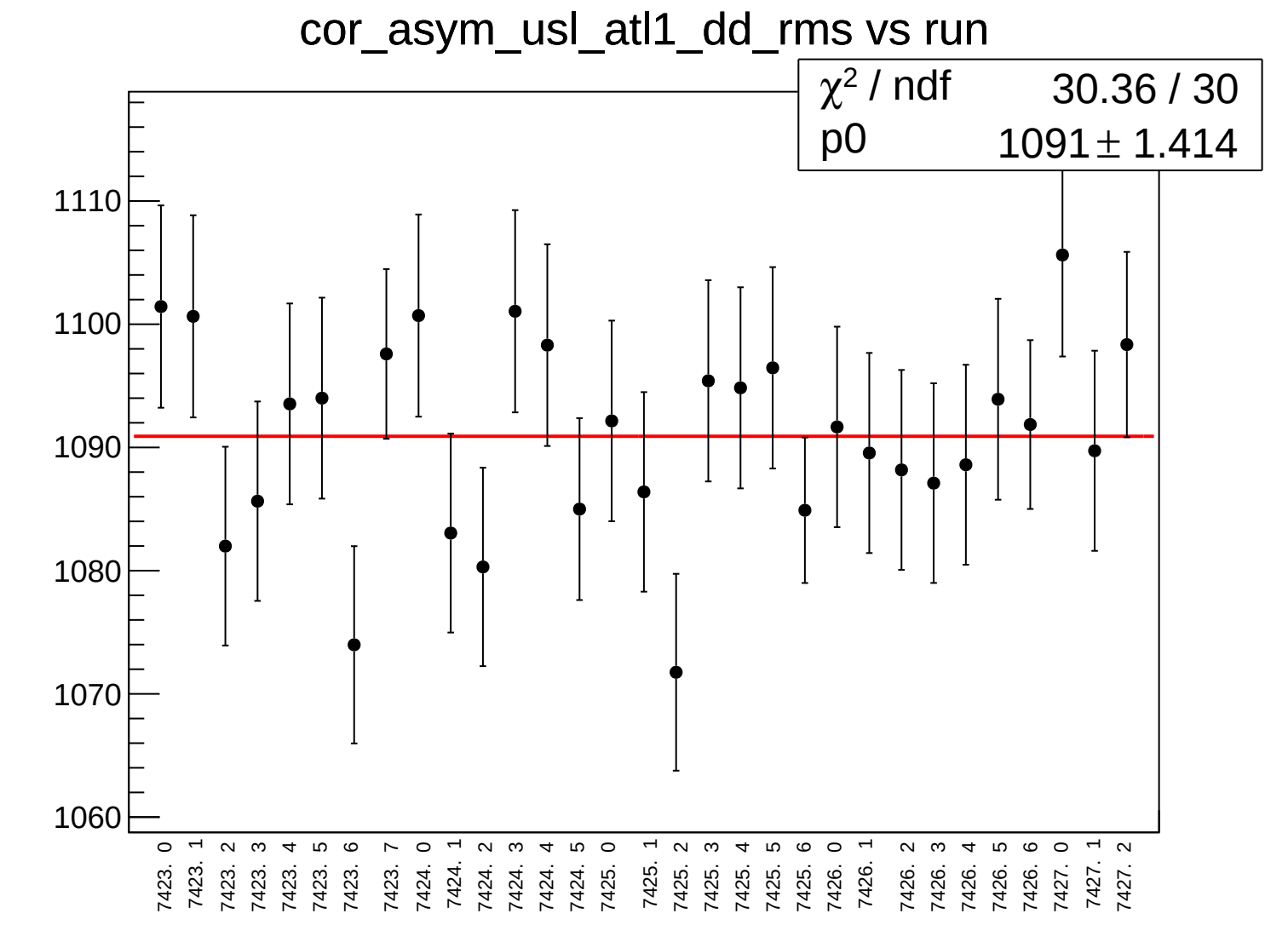

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 18.25 / 30
p0 1710 ± 1274
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −613.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

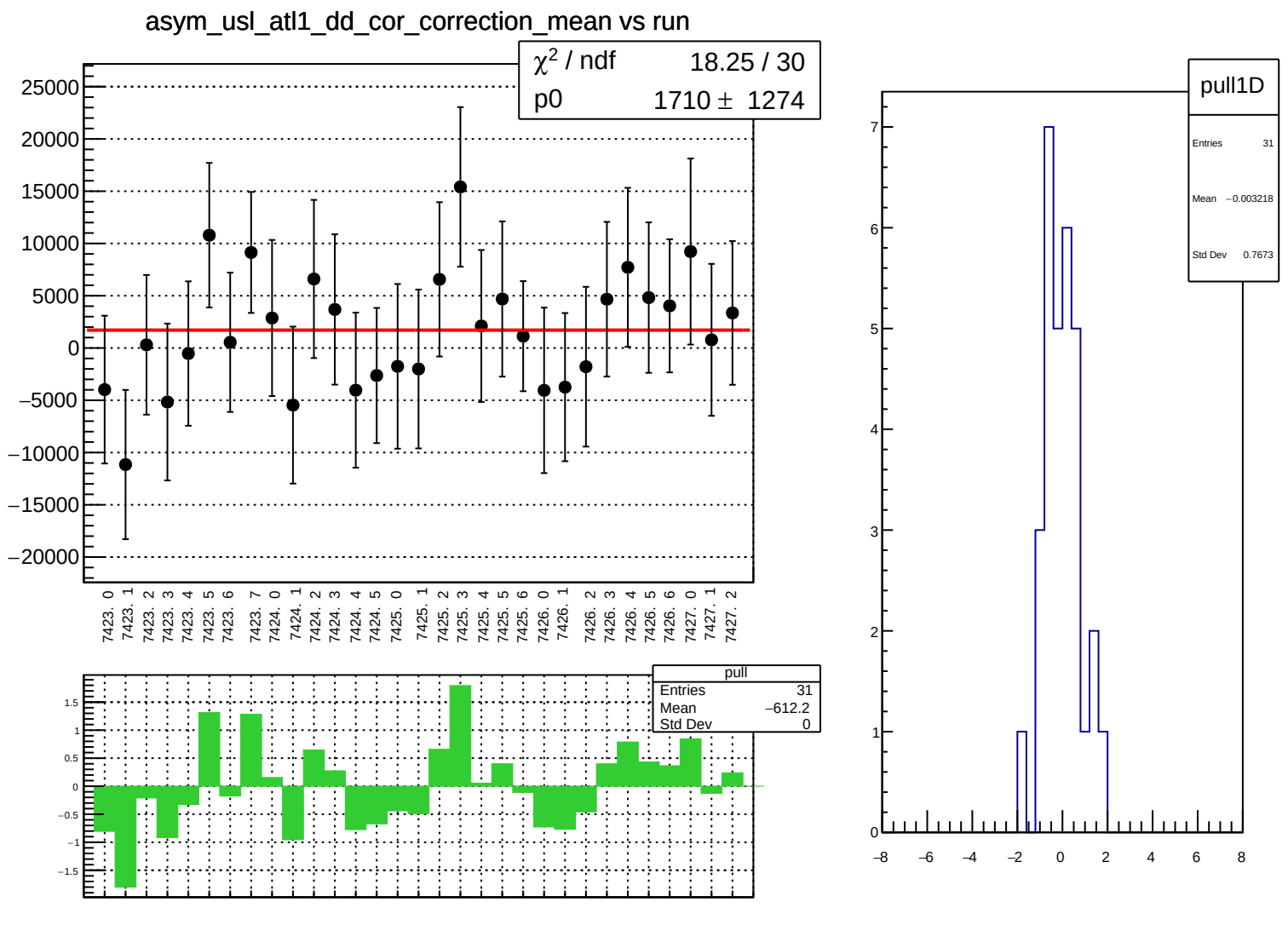

pull1D
Entries 31
Mean −0.003212
Std Dev 0.7673
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

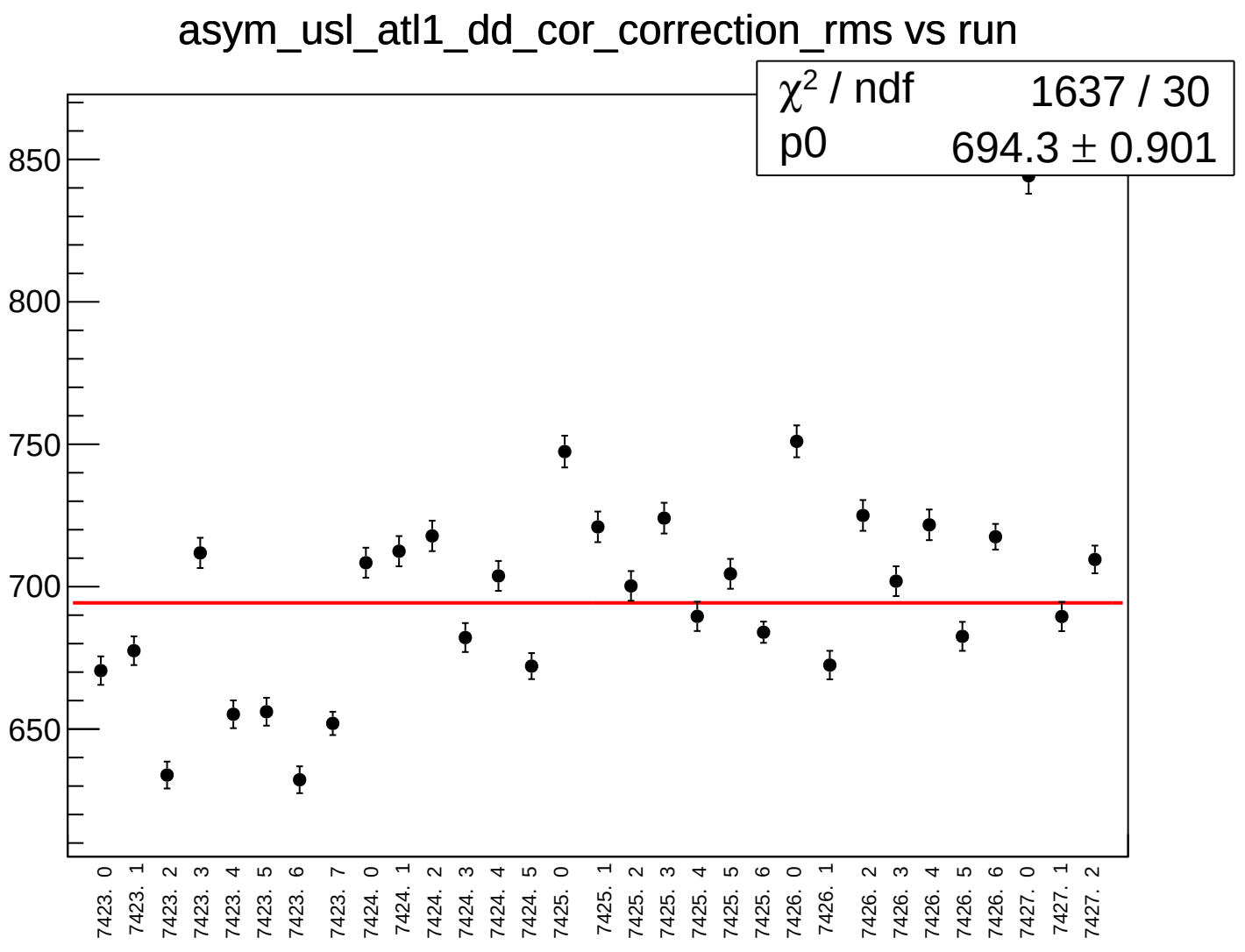

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1641 / 30
p0 694.3 ± 0.901
850
800
750
700
650
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

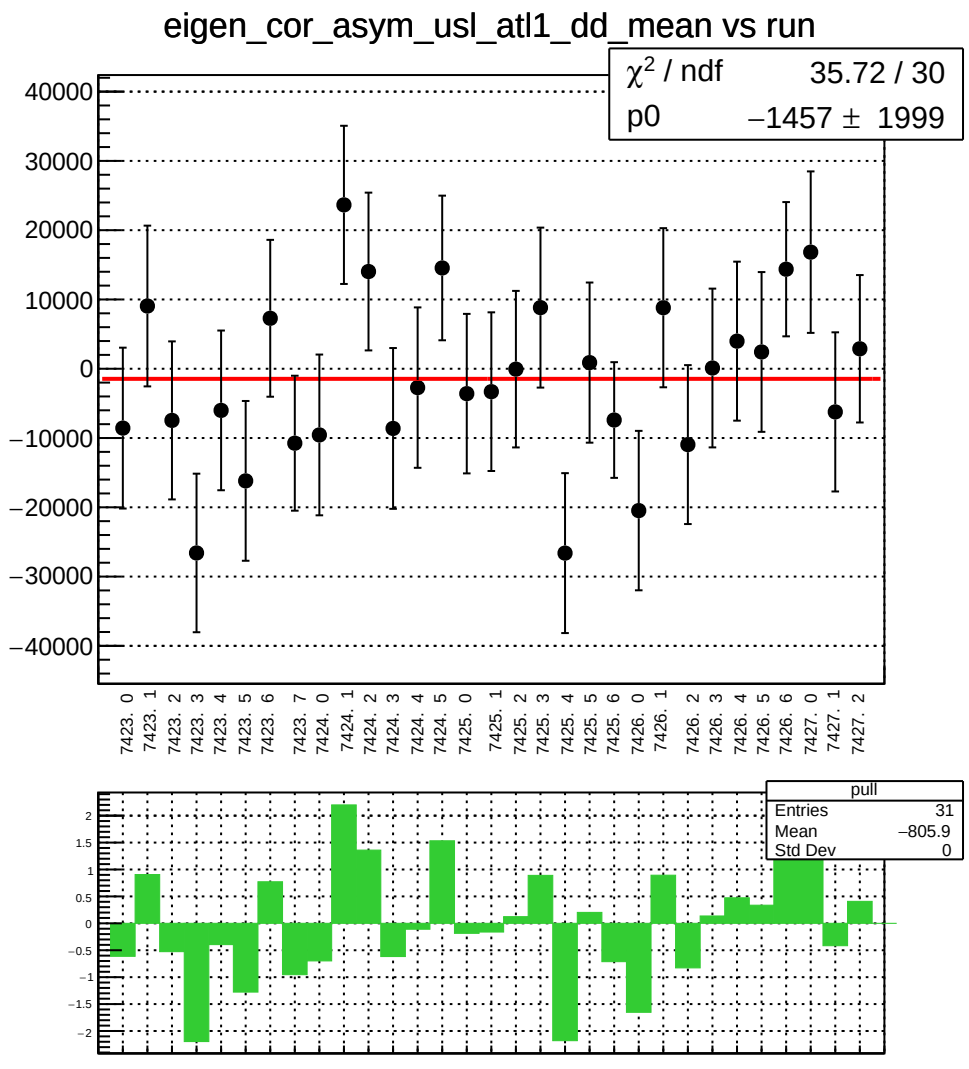

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 35.72 / 30
p0 −1457 ± 1999
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −805.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

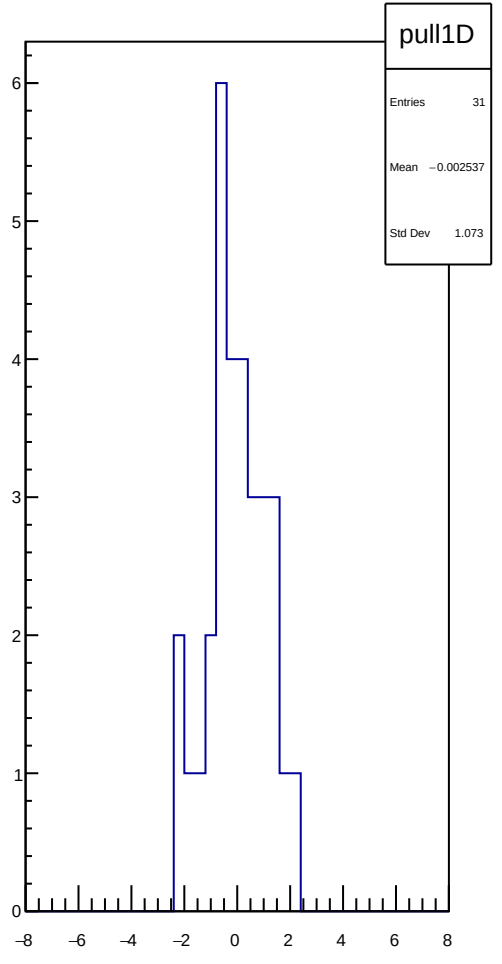

pull1D
Entries 31
Mean −0.002537
Std Dev 1.073
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

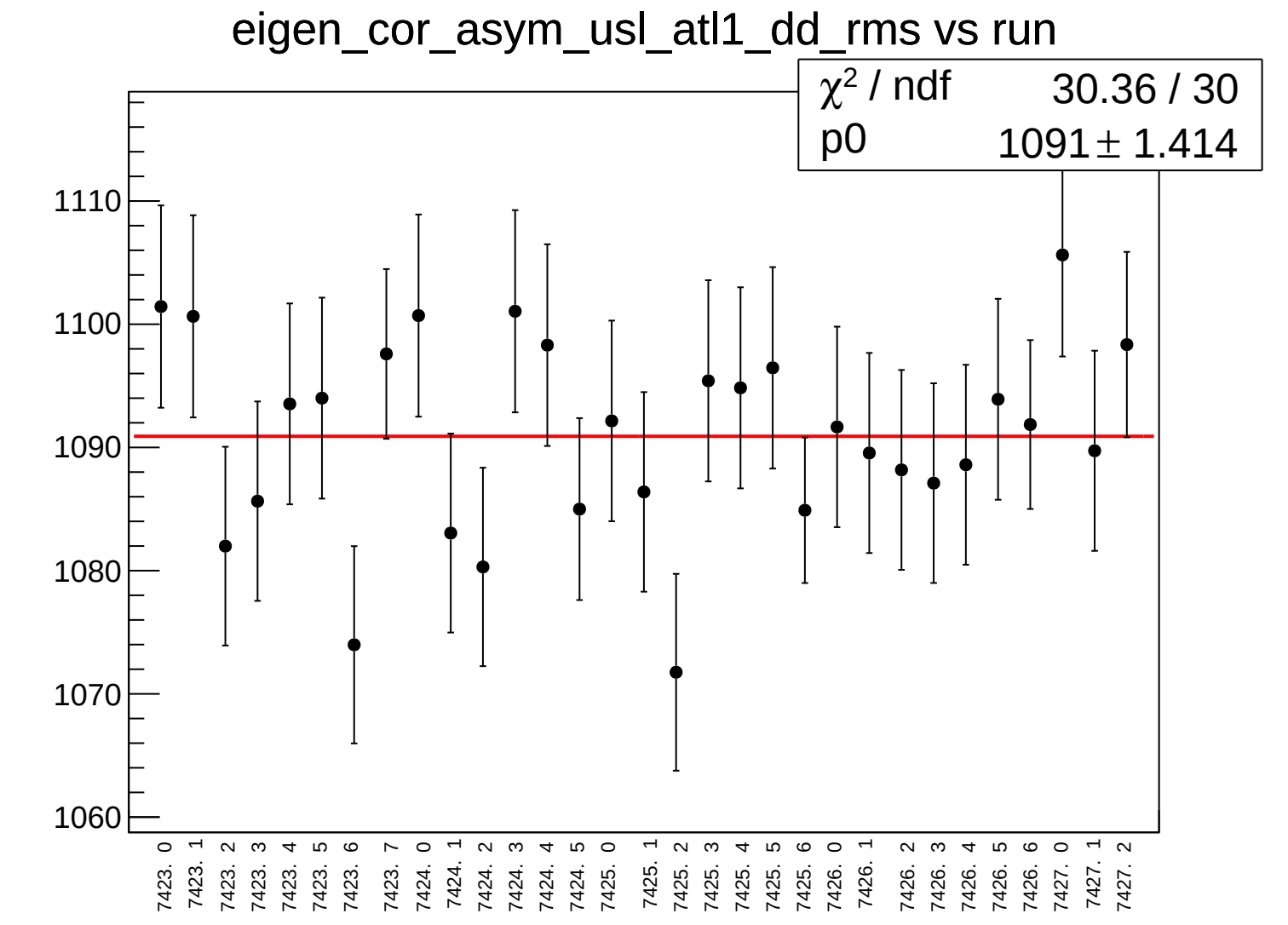

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 30.36 / 30
p0 1091 ± 1.414
1110
1100
1090
1080
1070
1060
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

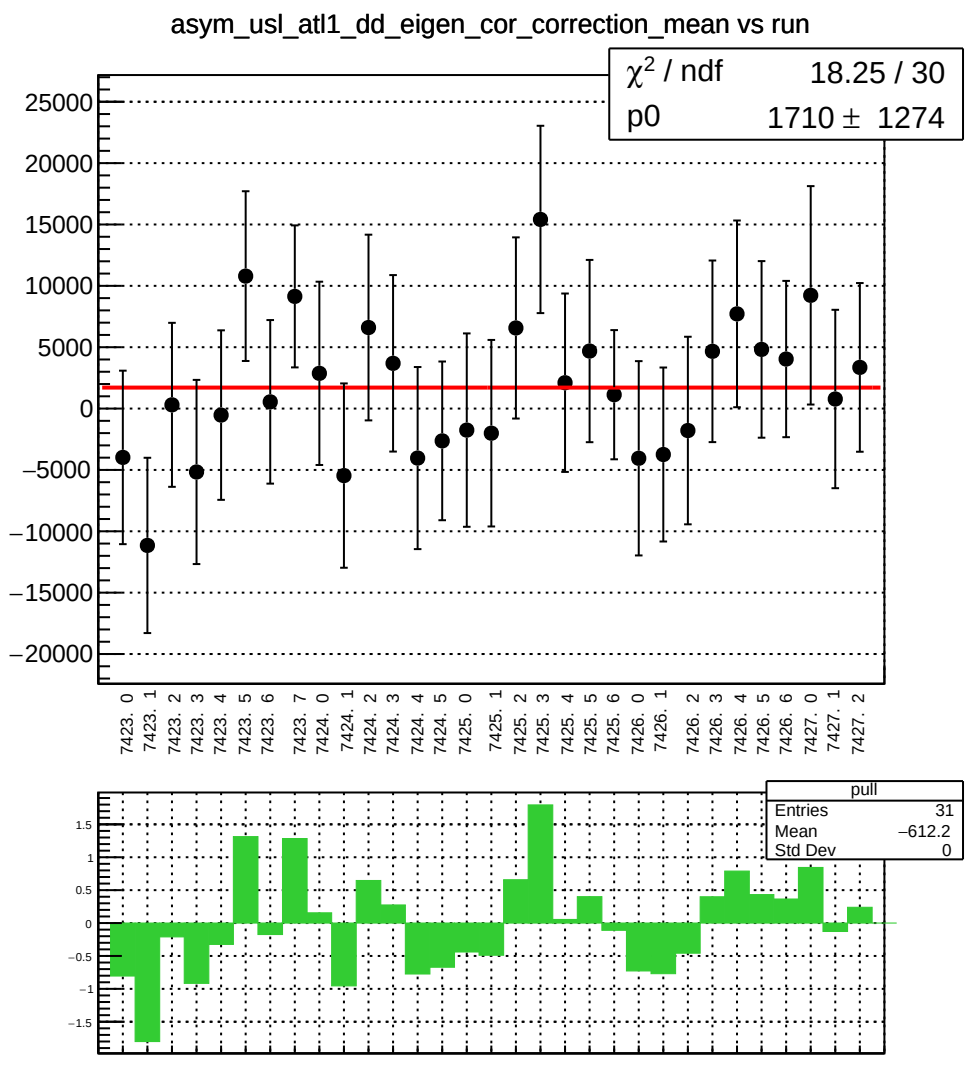

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 18.25 / 30
p0 1710 ± 1274
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −612.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.003218
Std Dev 0.7673
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

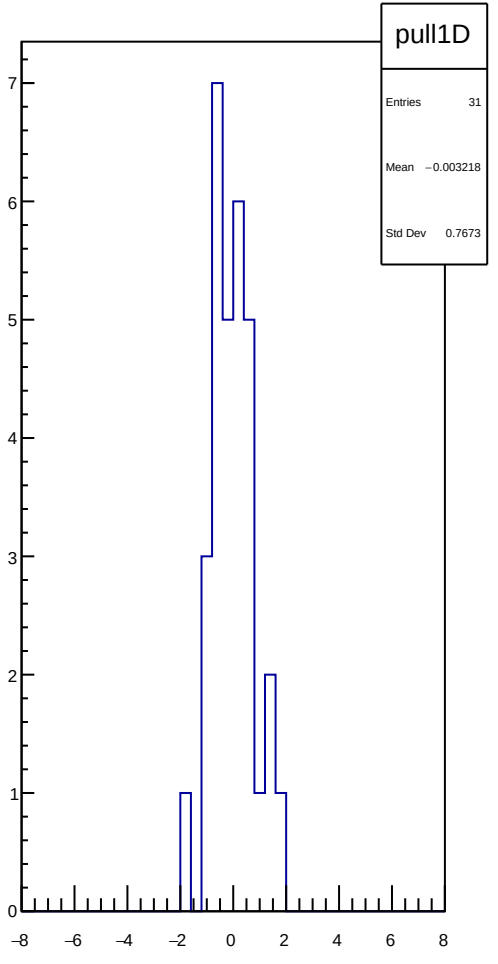

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1637 / 30
p0 694.3 ± 0.901
850
800
750
700
650
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

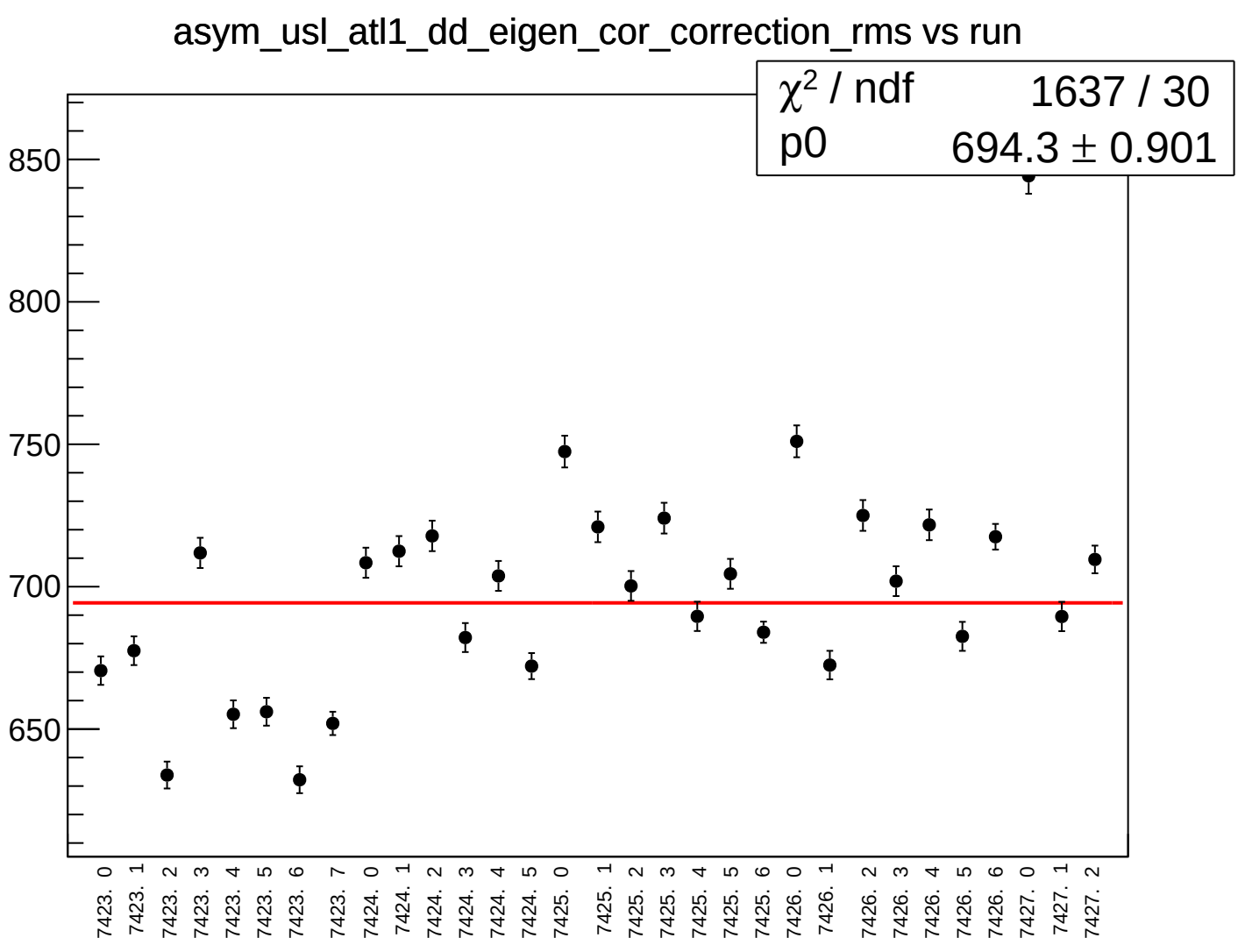

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 35.72 / 30
p0 −1457 ± 1999
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −805.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

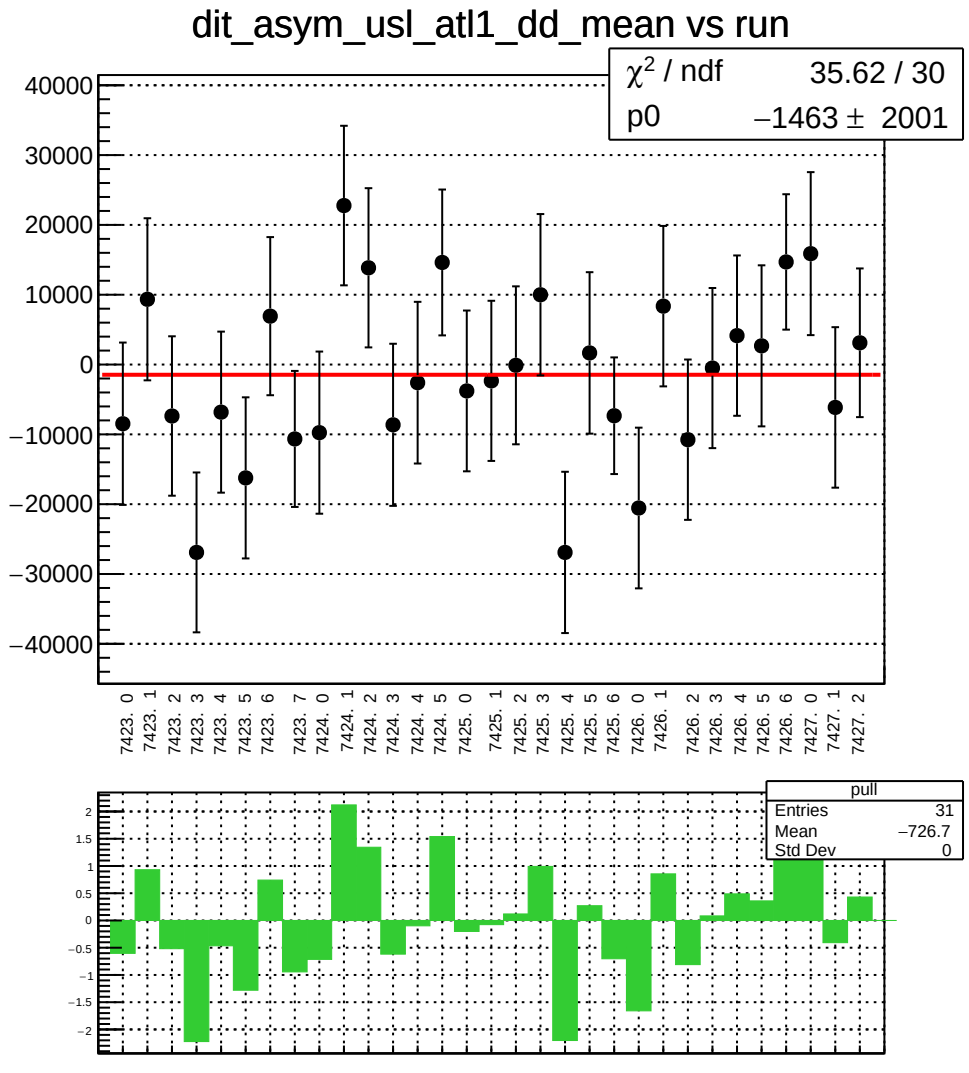

pull1D
Entries 31
Mean −0.002537
Std Dev 1.073
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

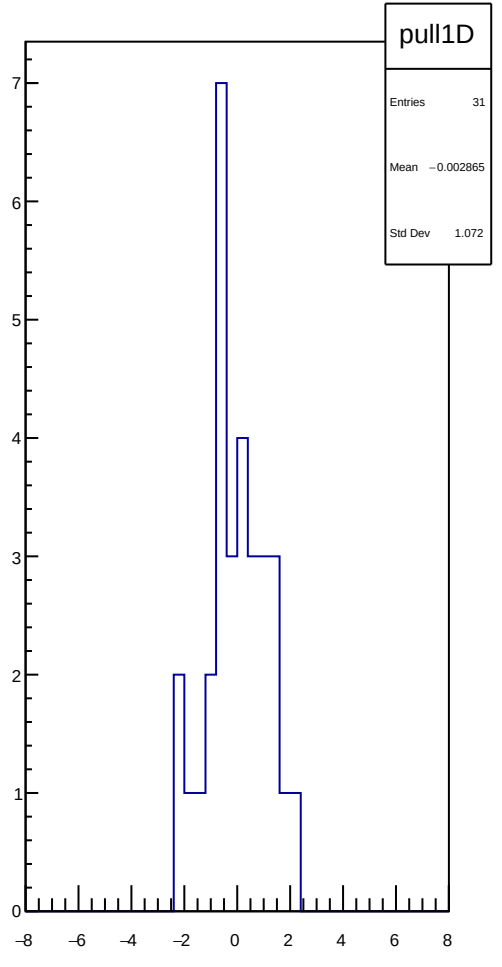

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 30.36 / 30
p0 1091 ± 1.414
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

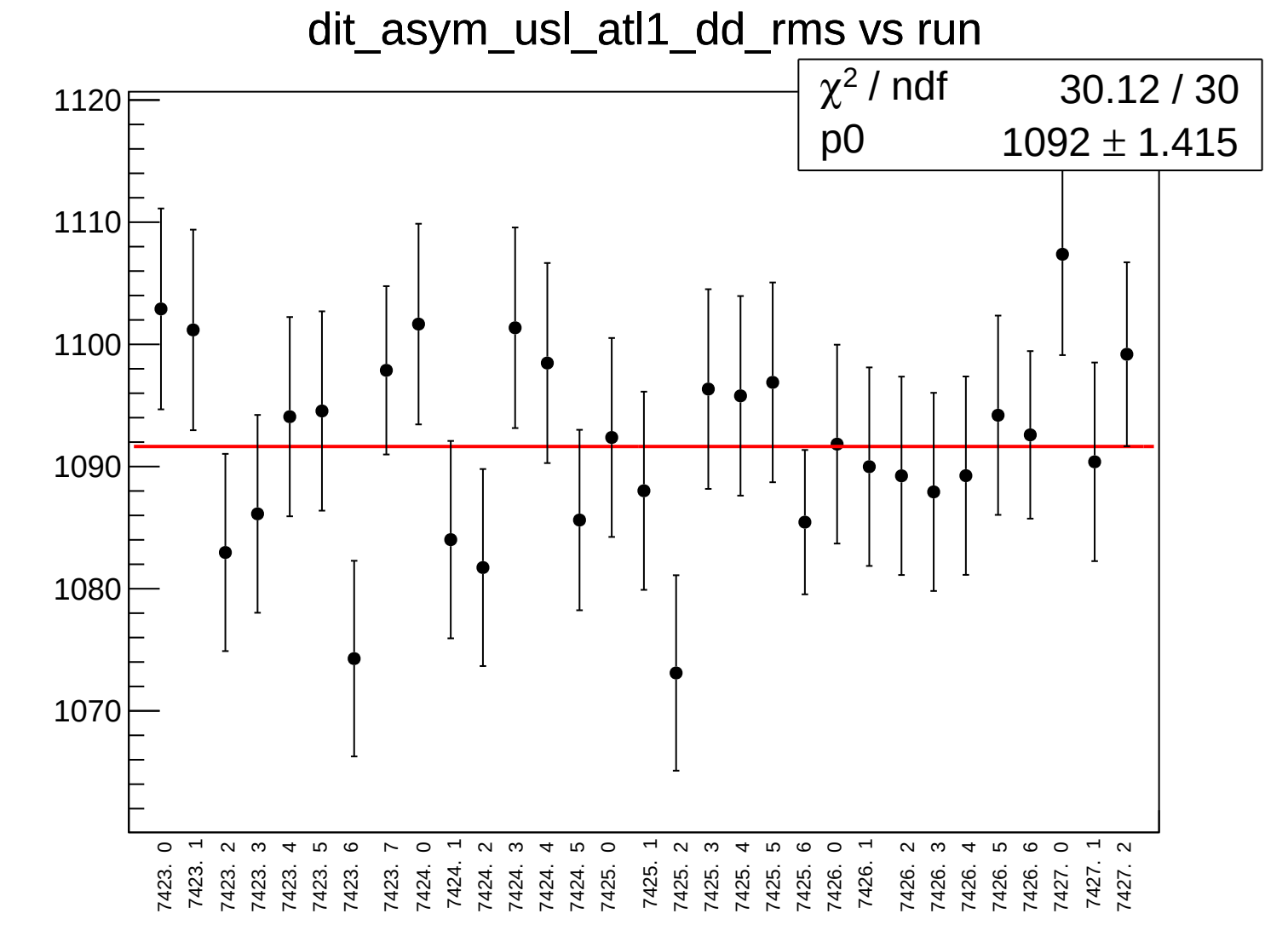

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 18.25 / 30
p0 1710 ± 1274
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −612.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

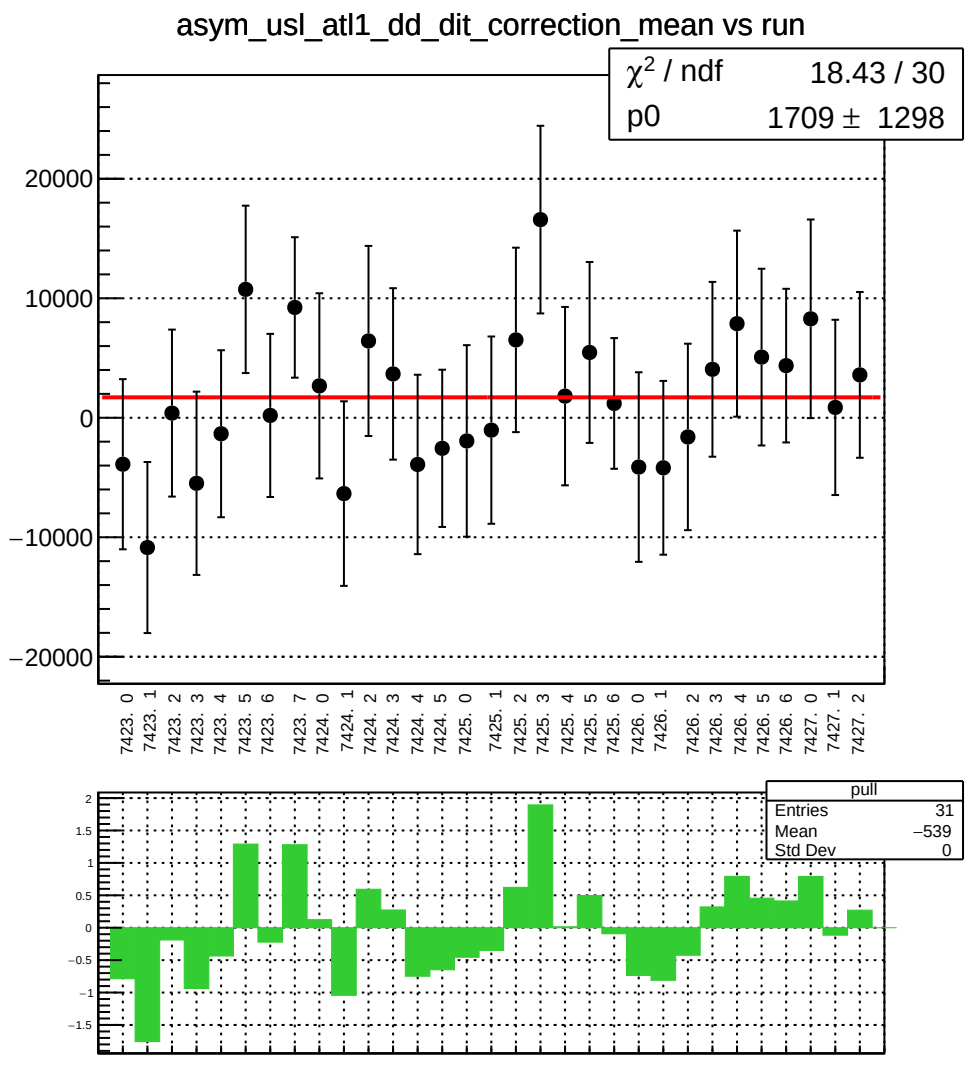

pull1D
Entries 31
Mean −0.003218
Std Dev 0.7673
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

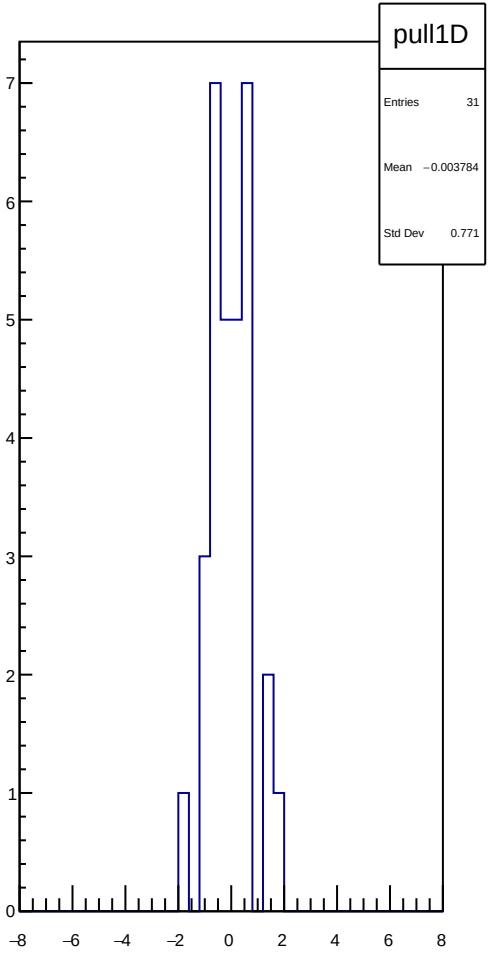

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1637 / 30
p0 694.3 ± 0.901
850
800
750
700
650
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

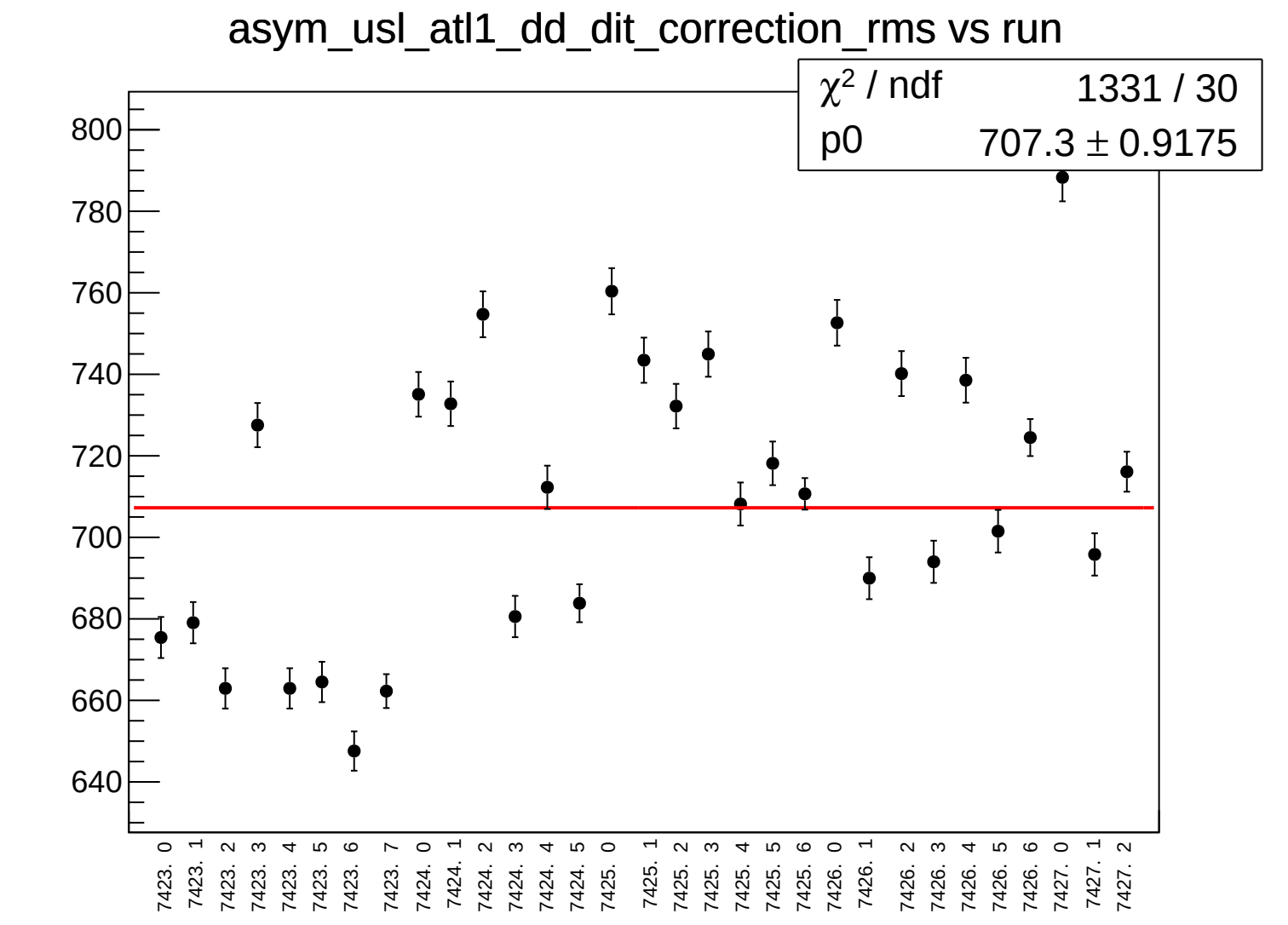

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 35.62 / 30
p0 −1463 ± 2001
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −726.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

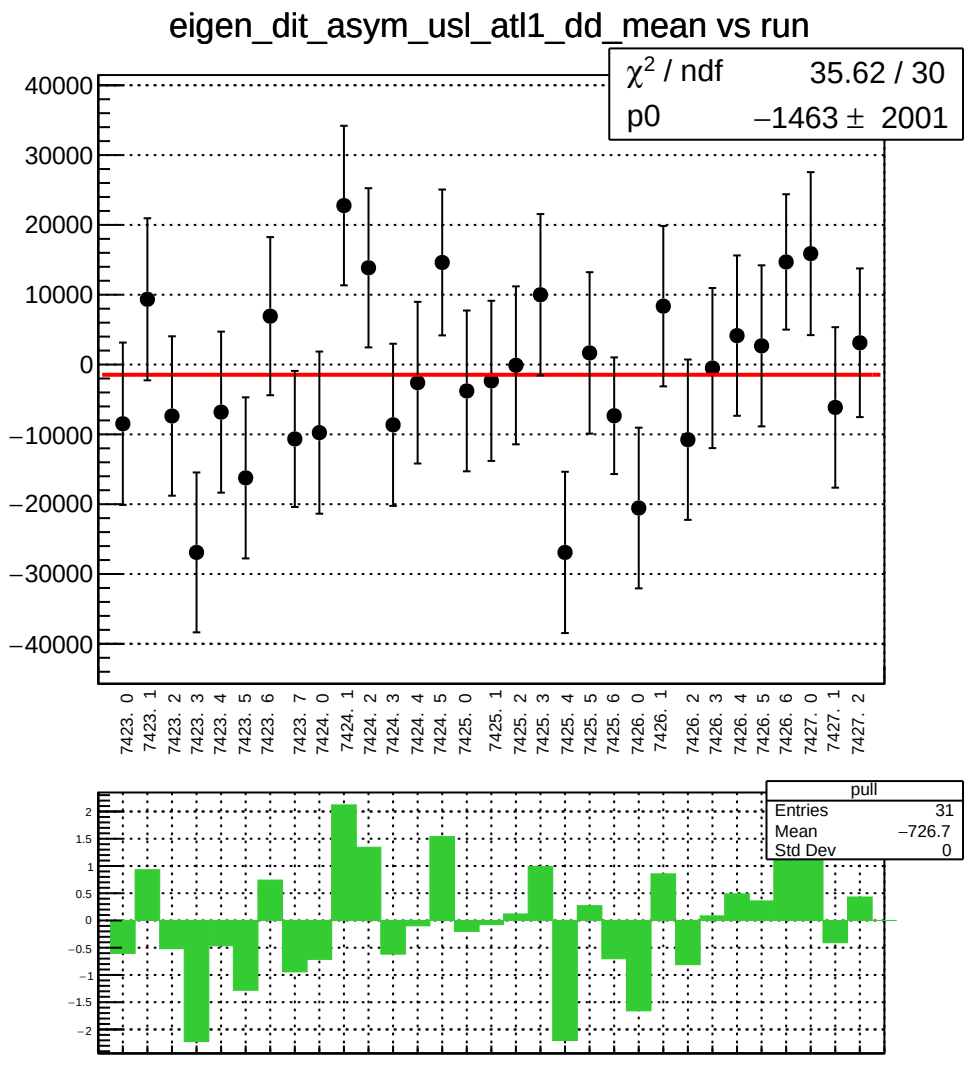

pull1D
Entries 31
Mean −0.002865
Std Dev 1.072
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

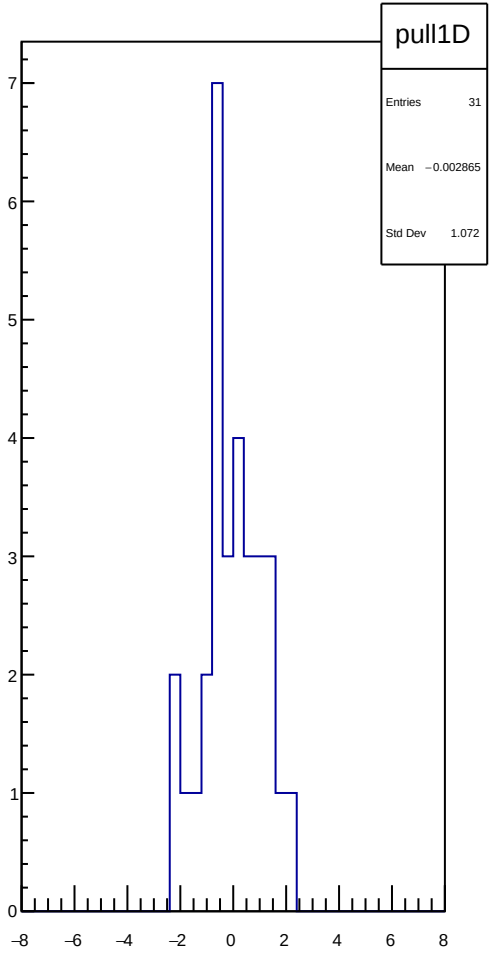

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 30.12 / 30
p0 1092 ± 1.415
1120
1110
1100
1090
1080
1070
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

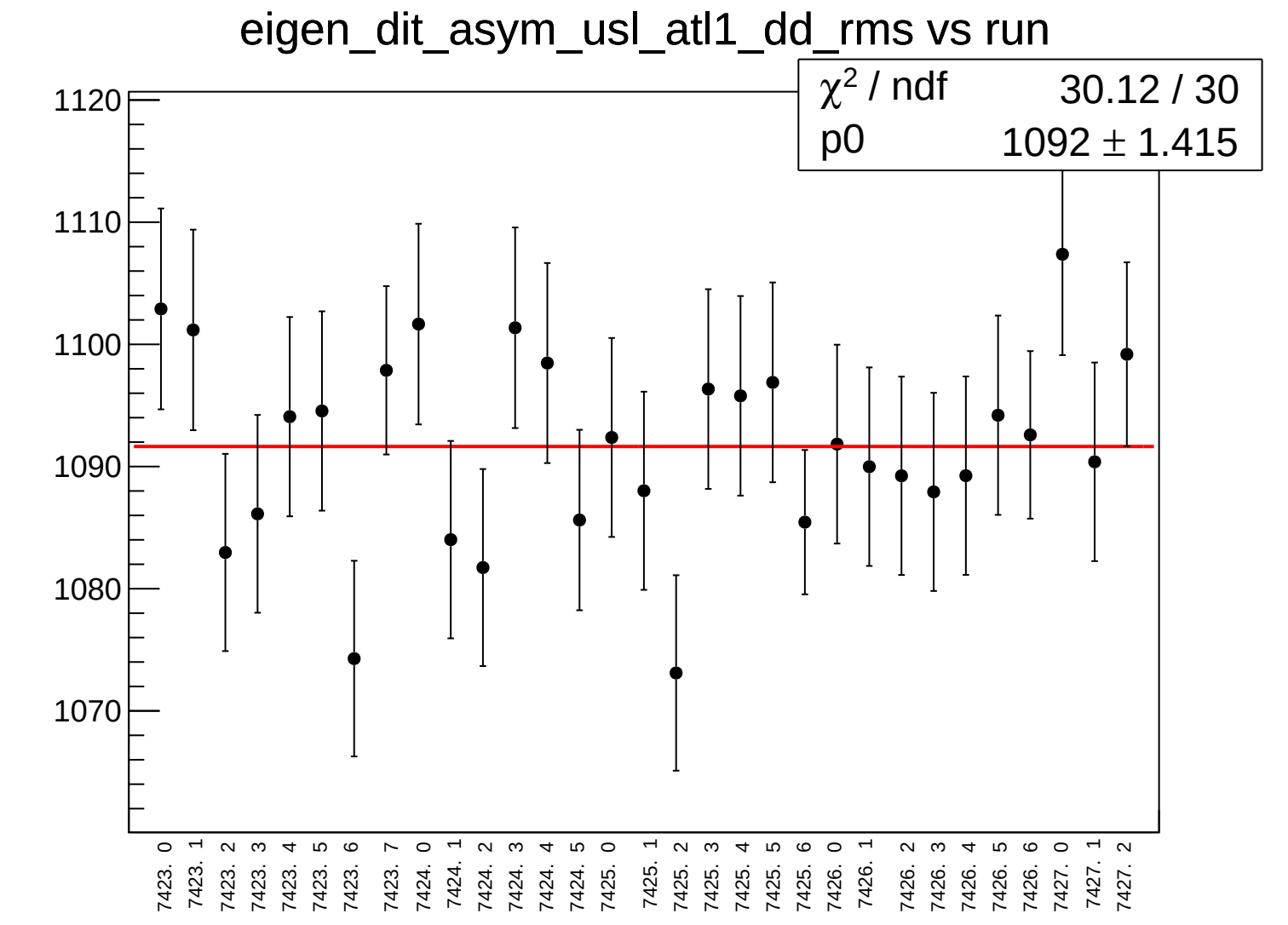

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 18.43 / 30
p0 1709 ± 1298
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −539
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

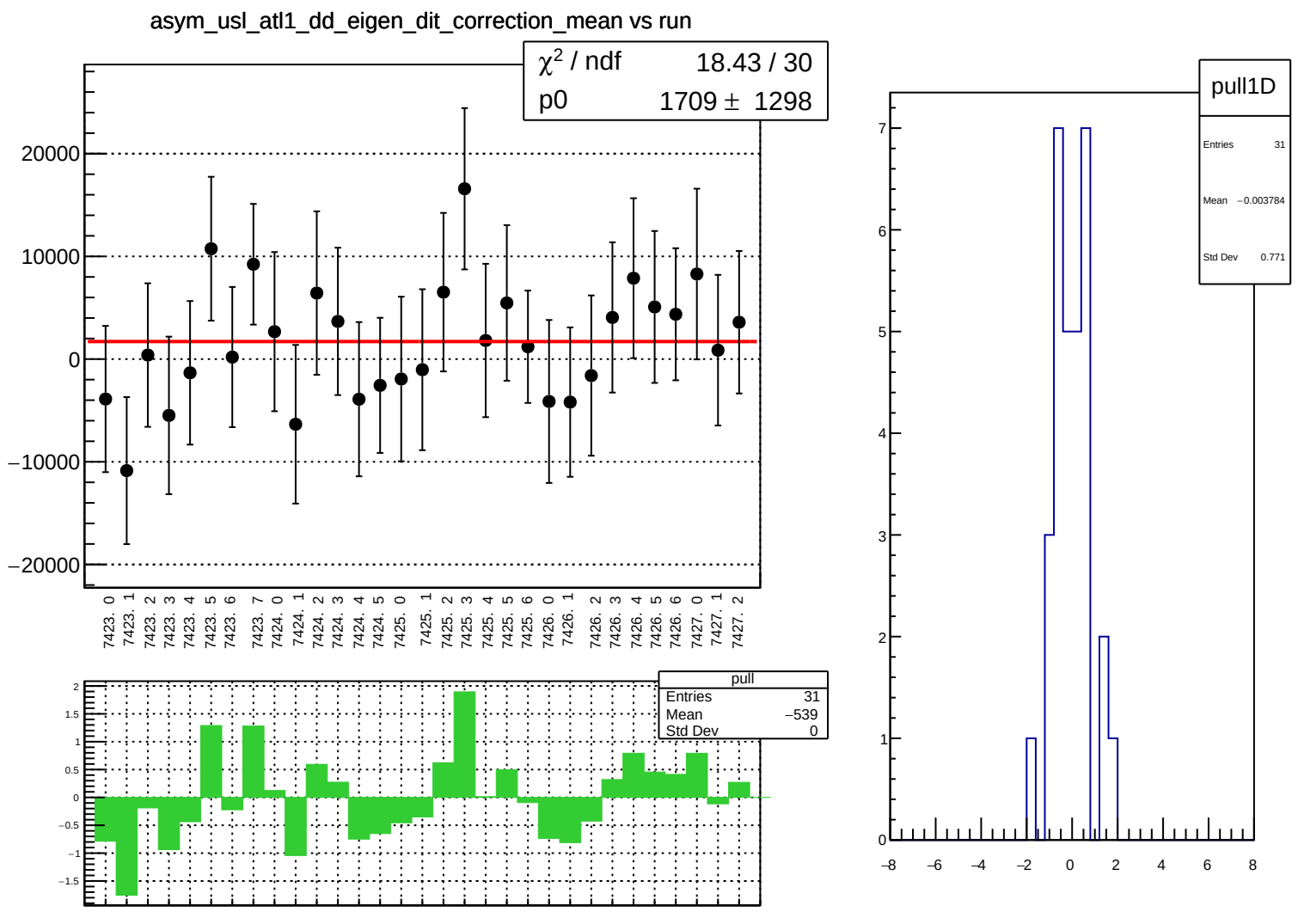

pull1D
Entries 31
Mean −0.003784
Std Dev 0.771
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

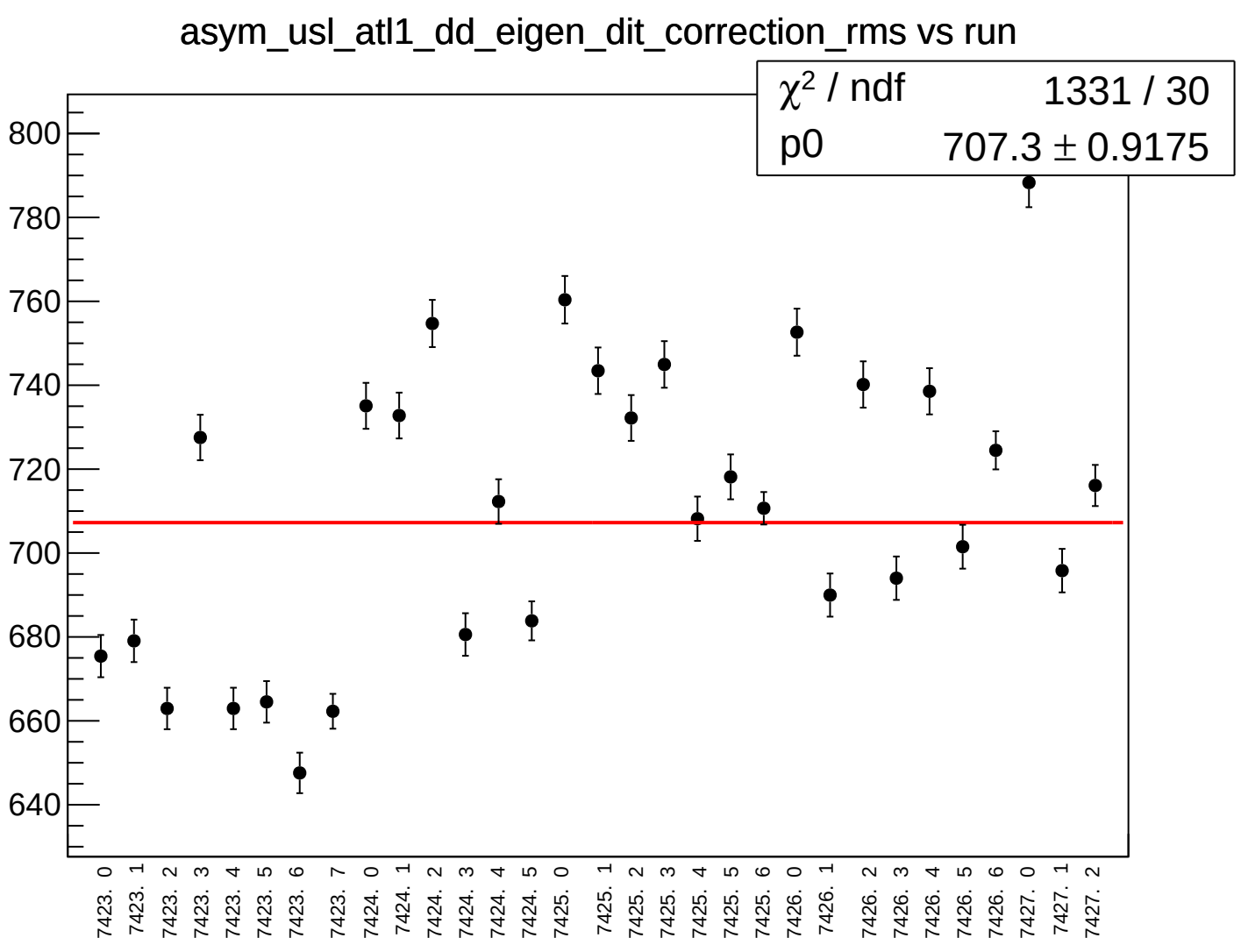

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1331 / 30
p0 707.3 ± 0.9175
800
780
760
740
720
700
680
660
640
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

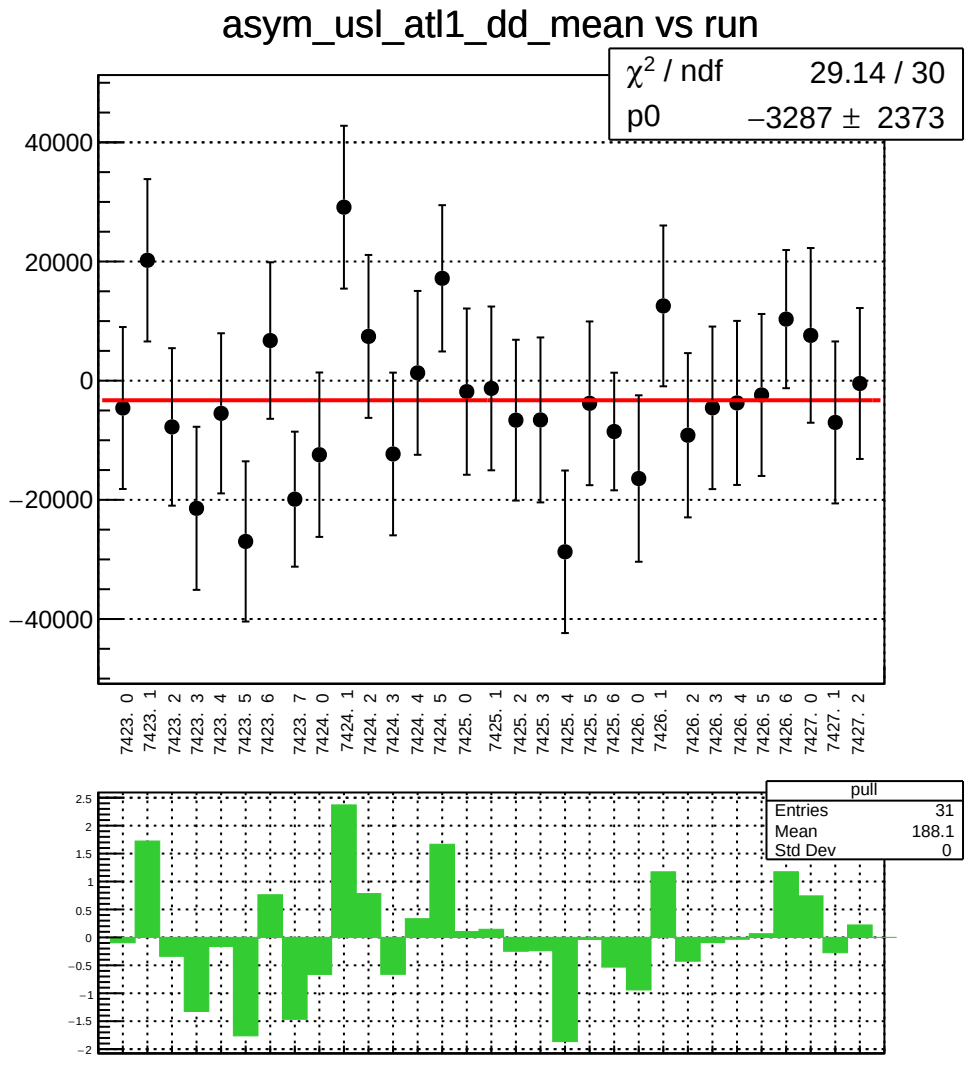

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 35.62 / 30
p0 −1463 ± 2001
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −726.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

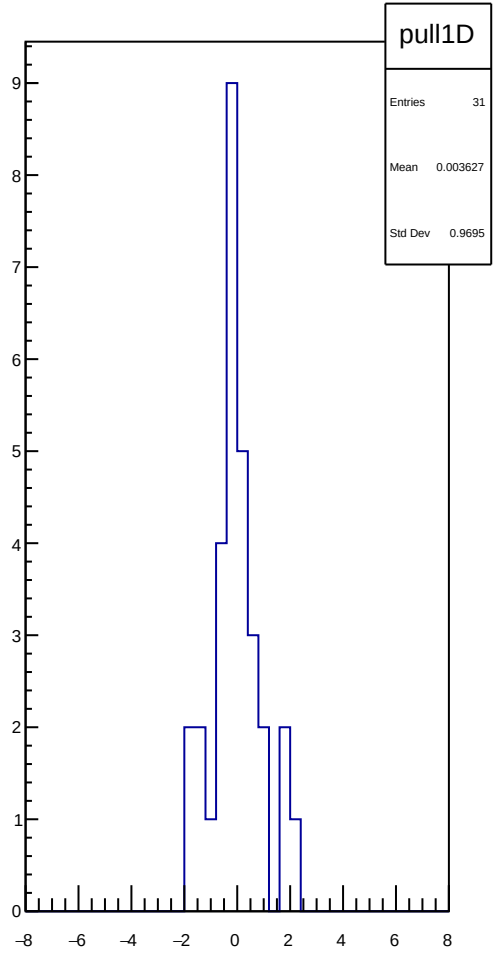

pull1D
Entries 31
Mean −0.002865
Std Dev 1.072
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

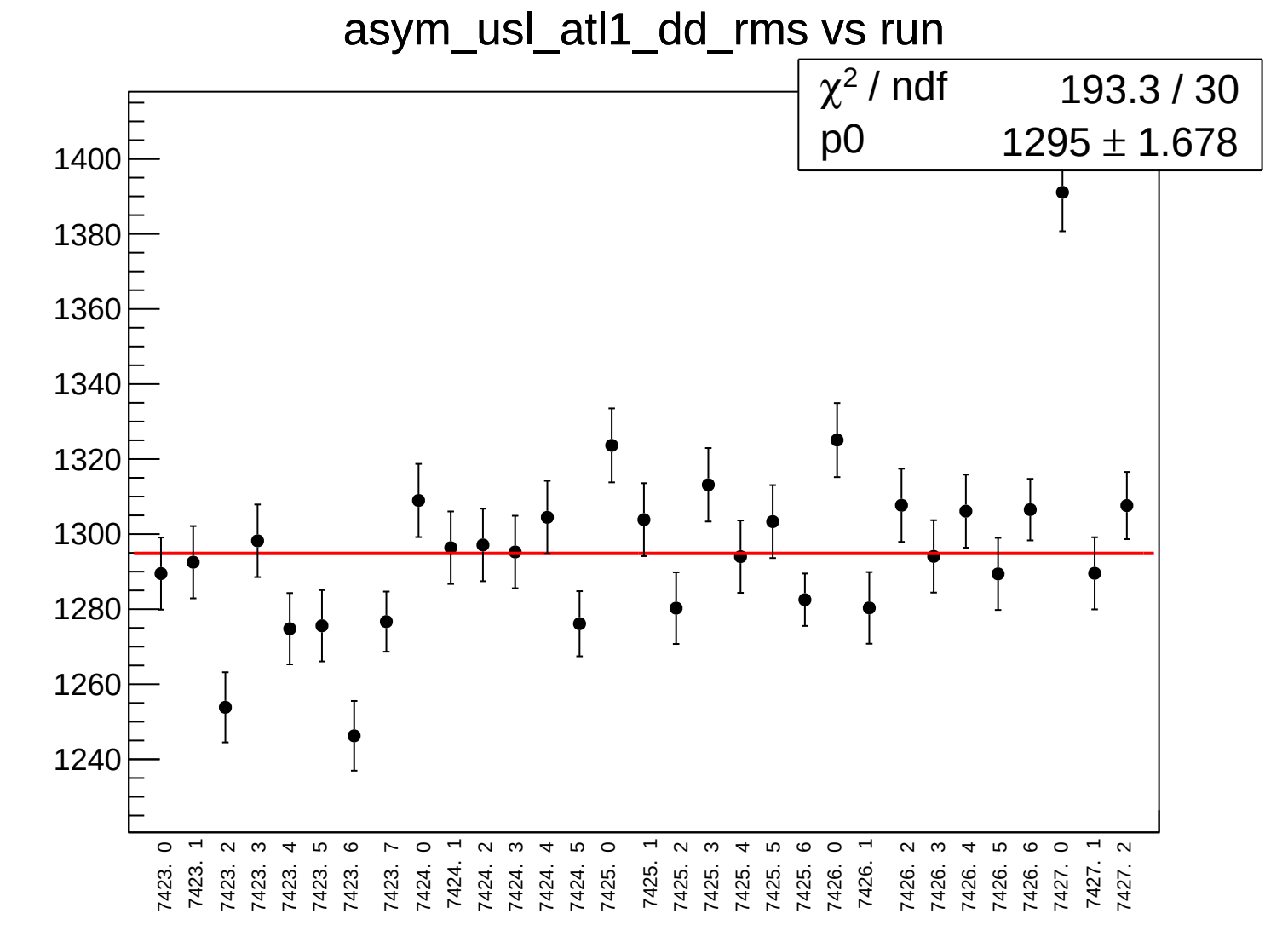

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 30.12 / 30
p0 1092 ± 1.415
1120
1110
1100
1090
1080
1070
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

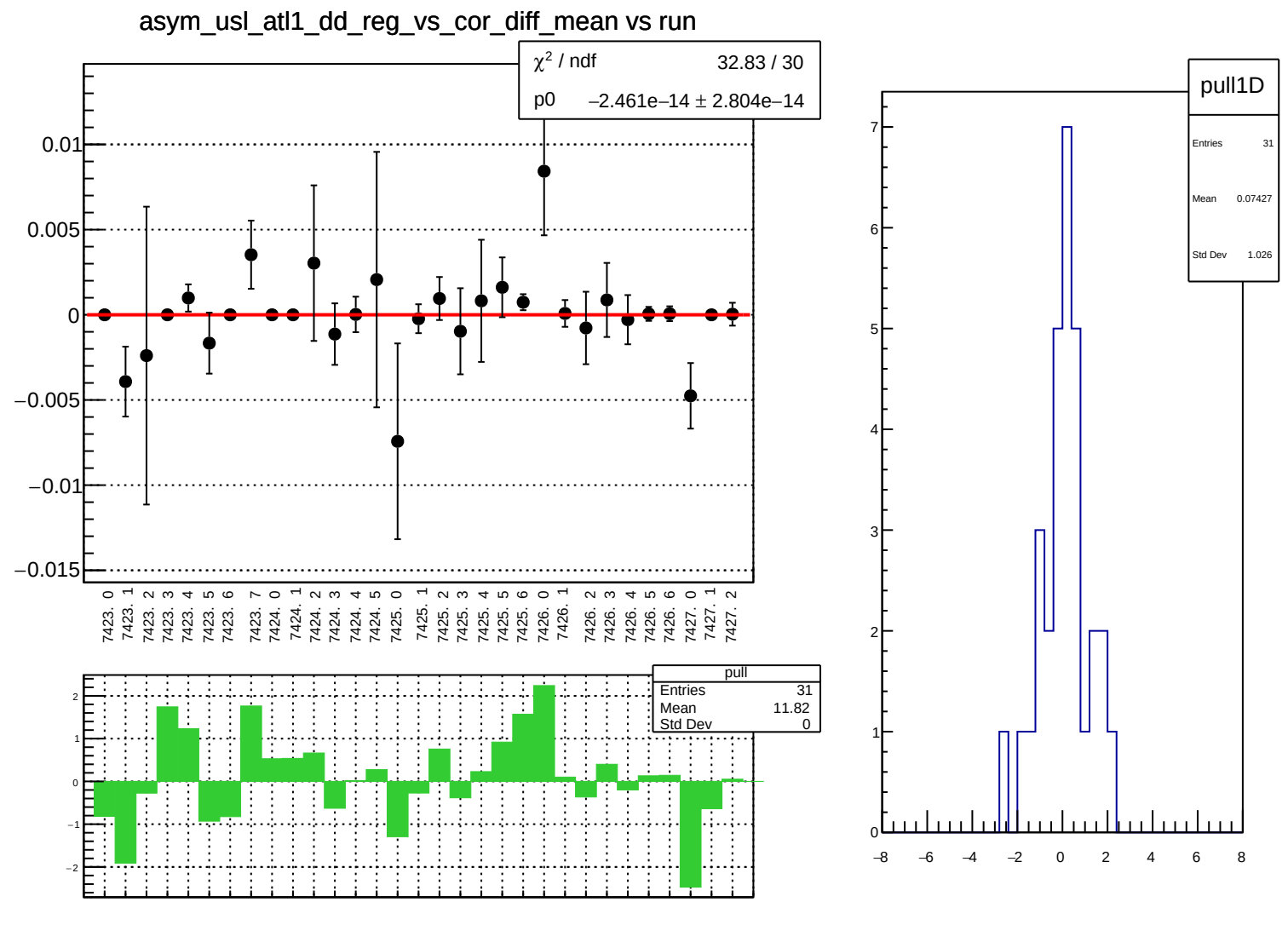

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 18.43 / 30
p0 1709 ± 1298
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −539
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.003784
Std Dev 0.771
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

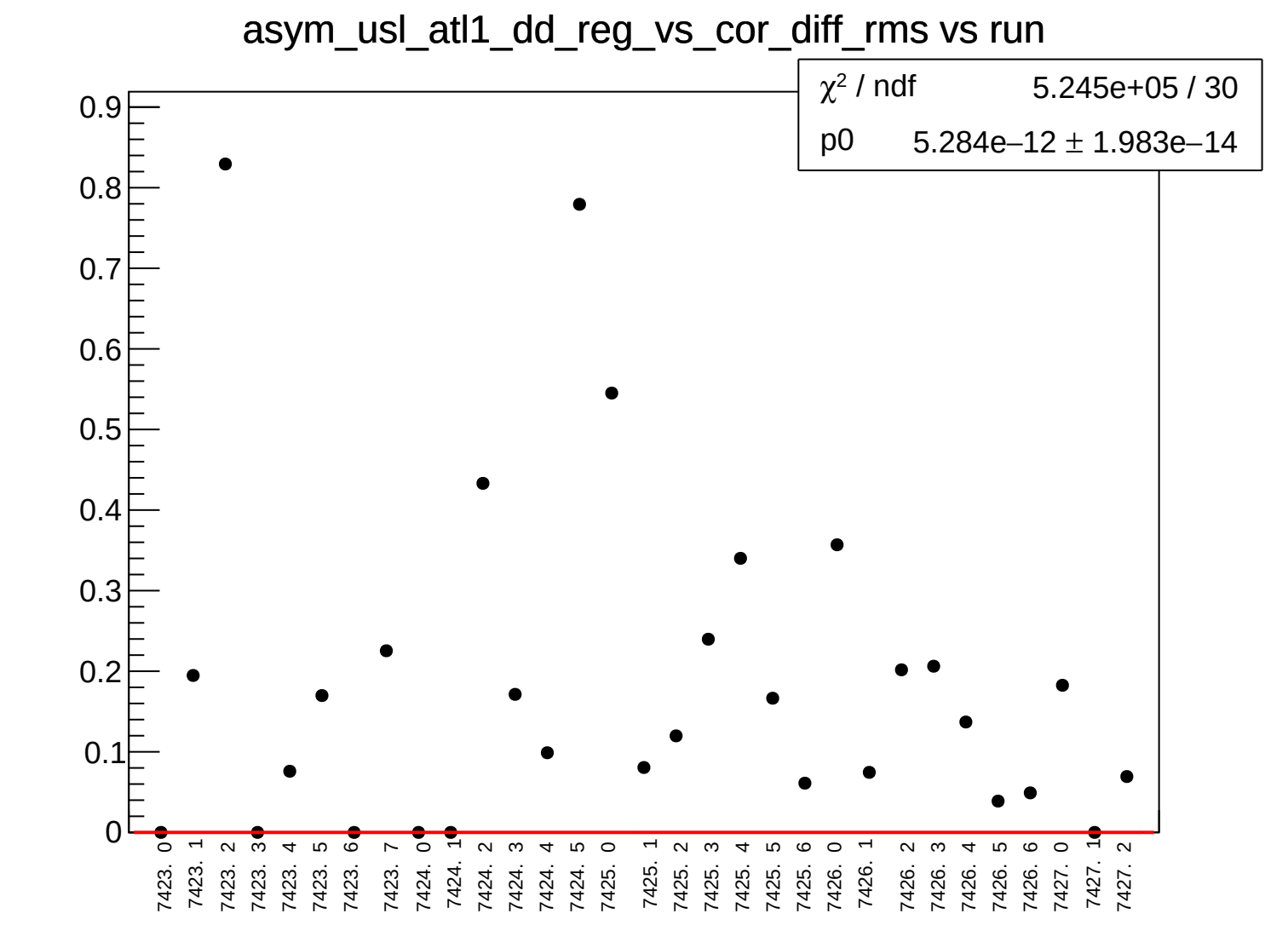

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1331 / 30
p0 707.3 ± 0.9175
800
780
760
740
720
700
680
660
640
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

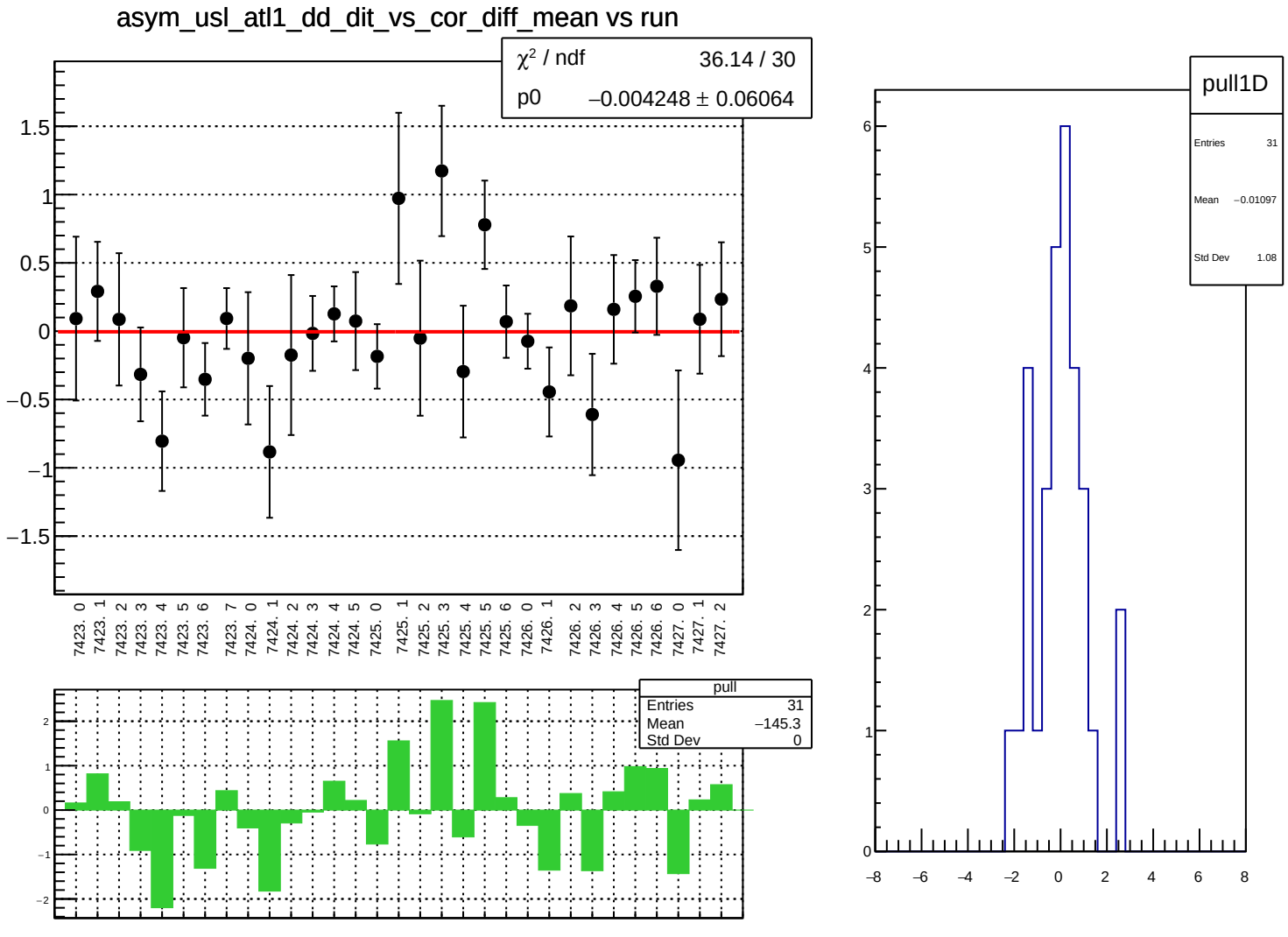

asym_usl_atl1_dd_mean vs run
χ² / ndf 29.14 / 30
p0 −3287 ± 2373
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 188.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

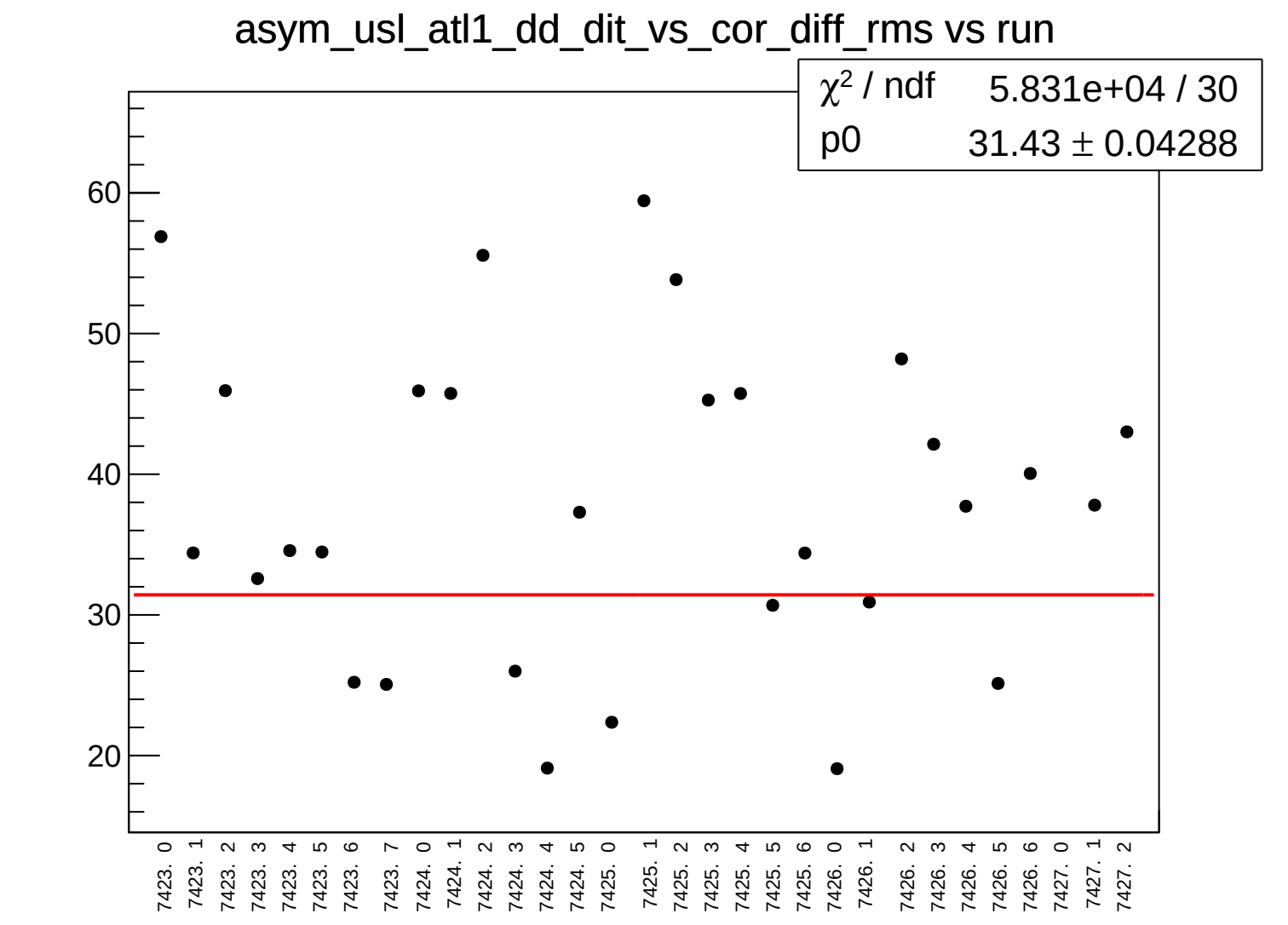

pull1D
Entries 31
Mean 0.003627
Std Dev 0.9695
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

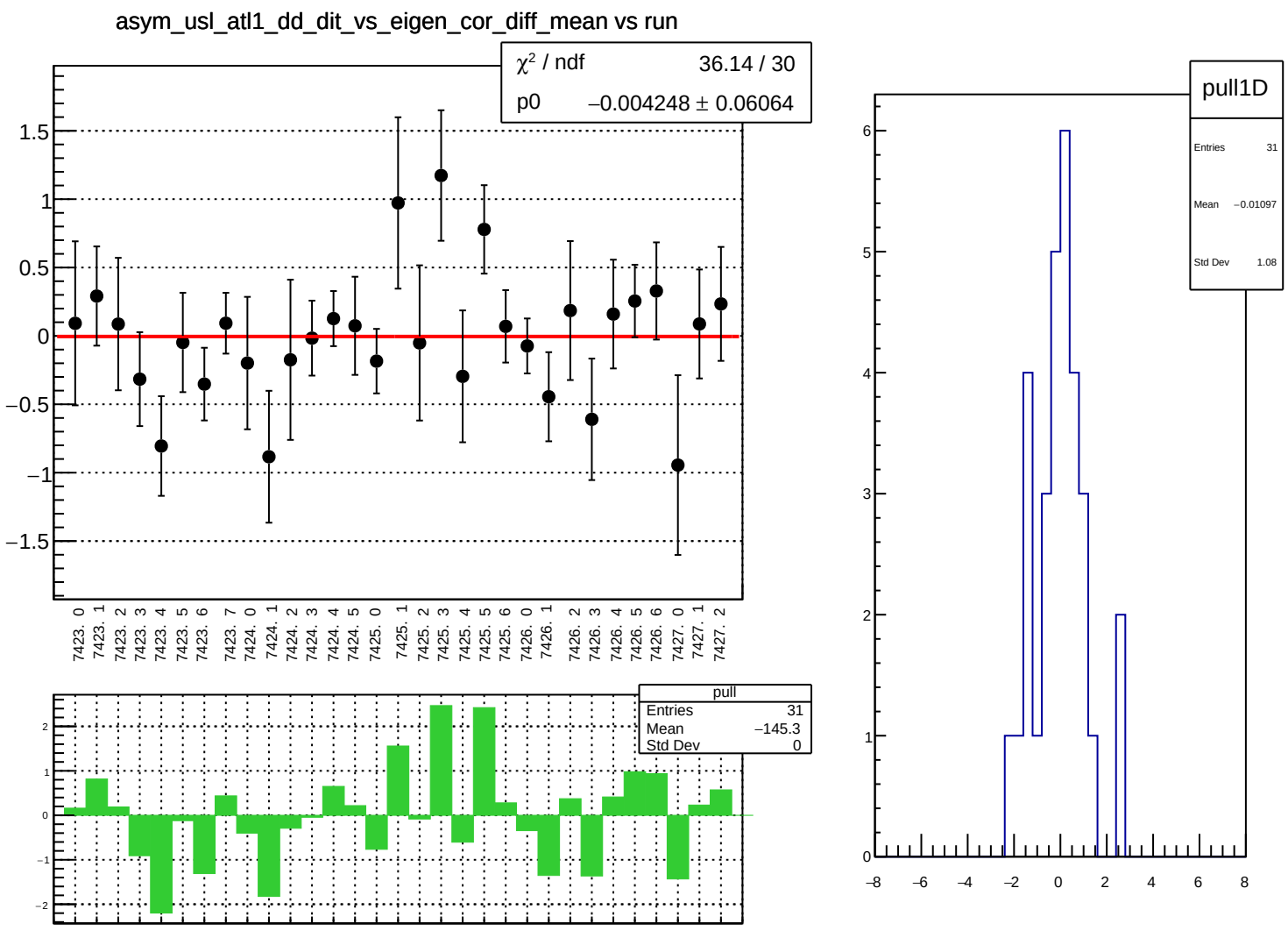

asym_usl_atl1_dd_rms vs run
χ² / ndf 193.3 / 30
p0 1295 ± 1.678
1400
1380
1360
1340
1320
1300
1280
1260
1240
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

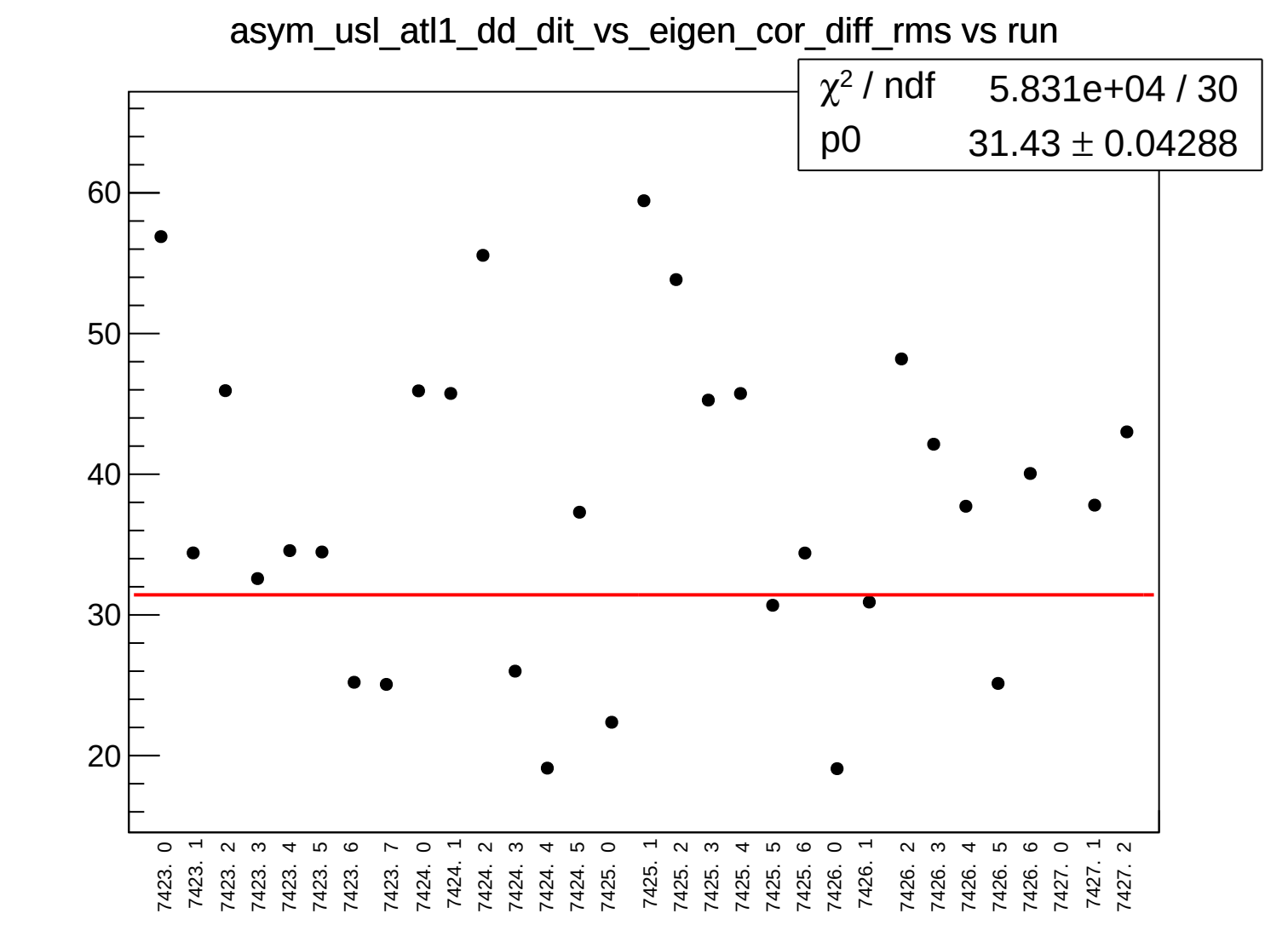

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 32.83 / 30
p0 −2.461e−14 ± 2.804e−14
0.01
0.005
0
−0.005
−0.01
−0.015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.07427
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

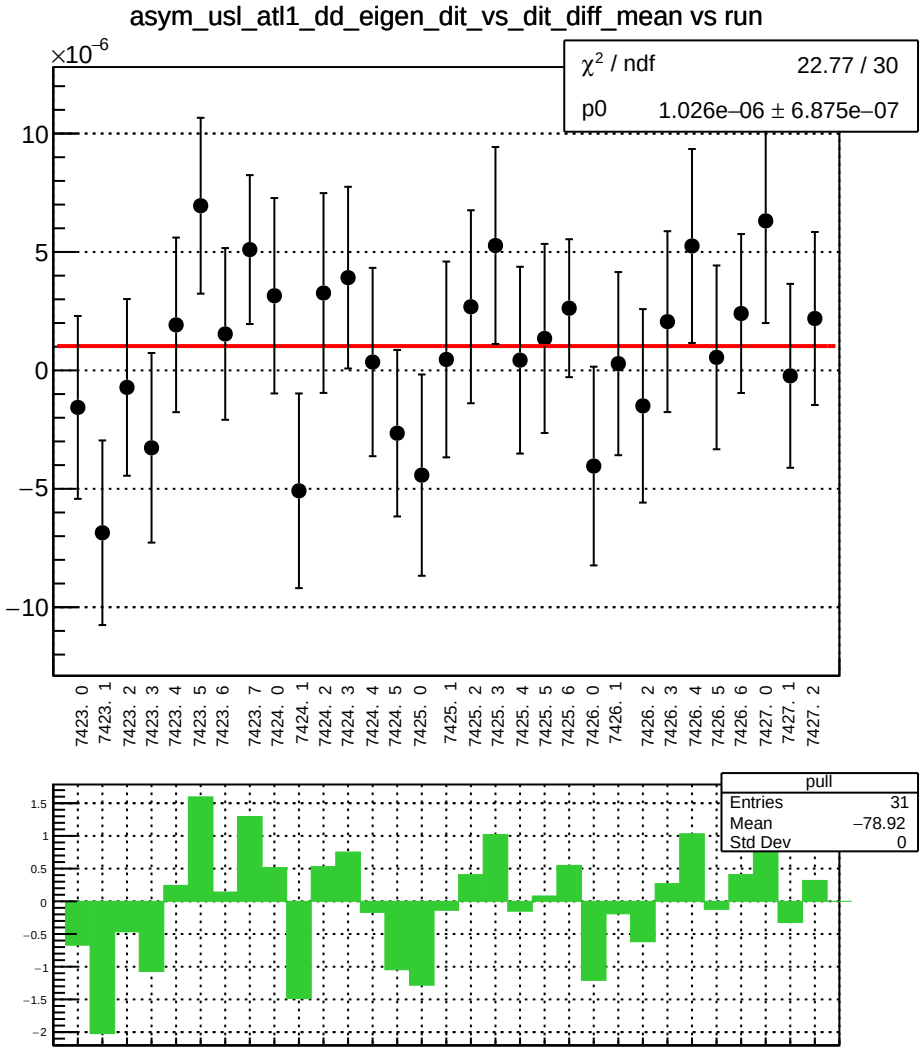

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.245e+05 / 30
p0 5.284e−12 ± 1.983e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

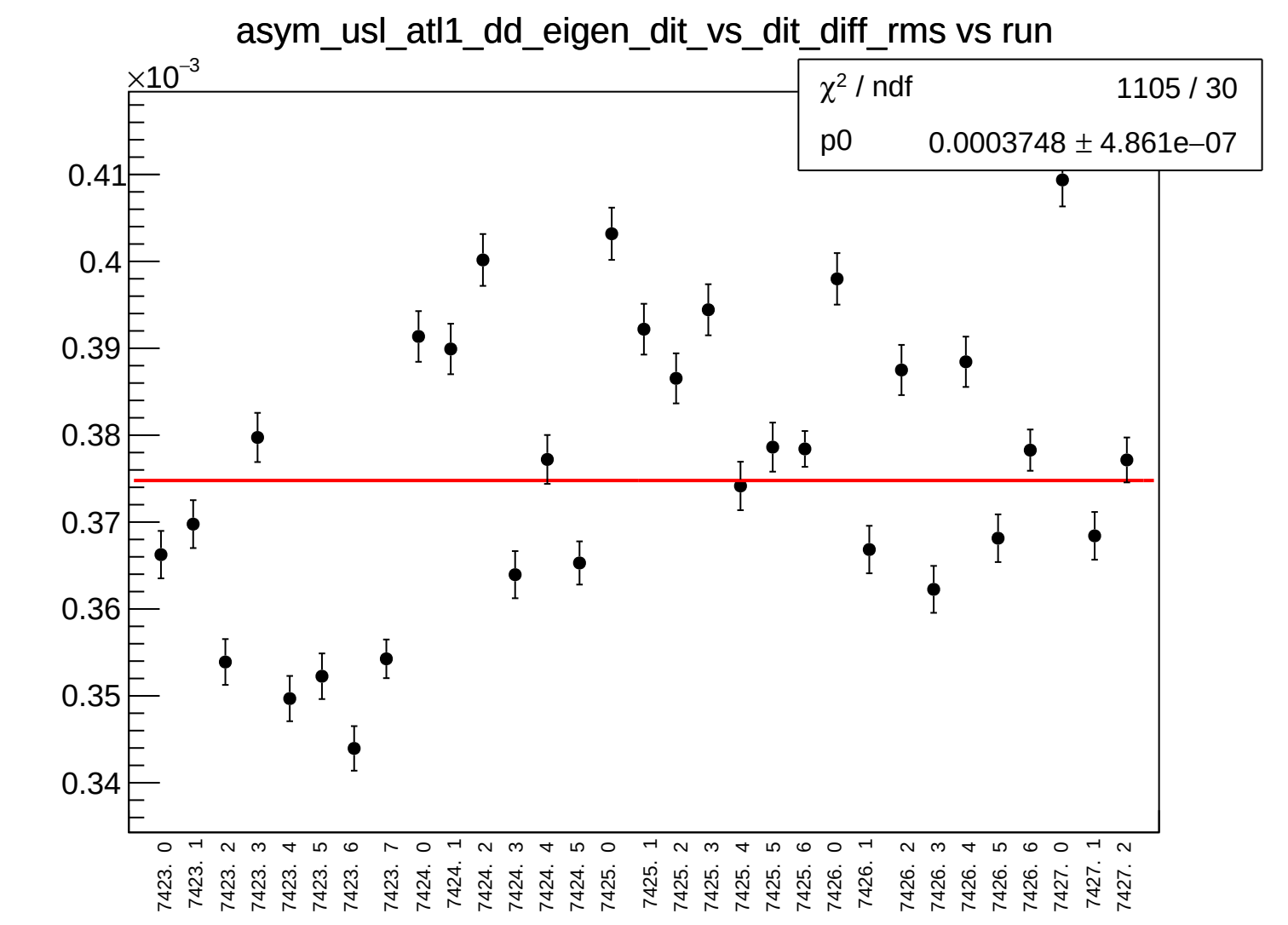

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.14 / 30
p0 −0.004248 ± 0.06064
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −145.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.01097
Std Dev 1.08
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

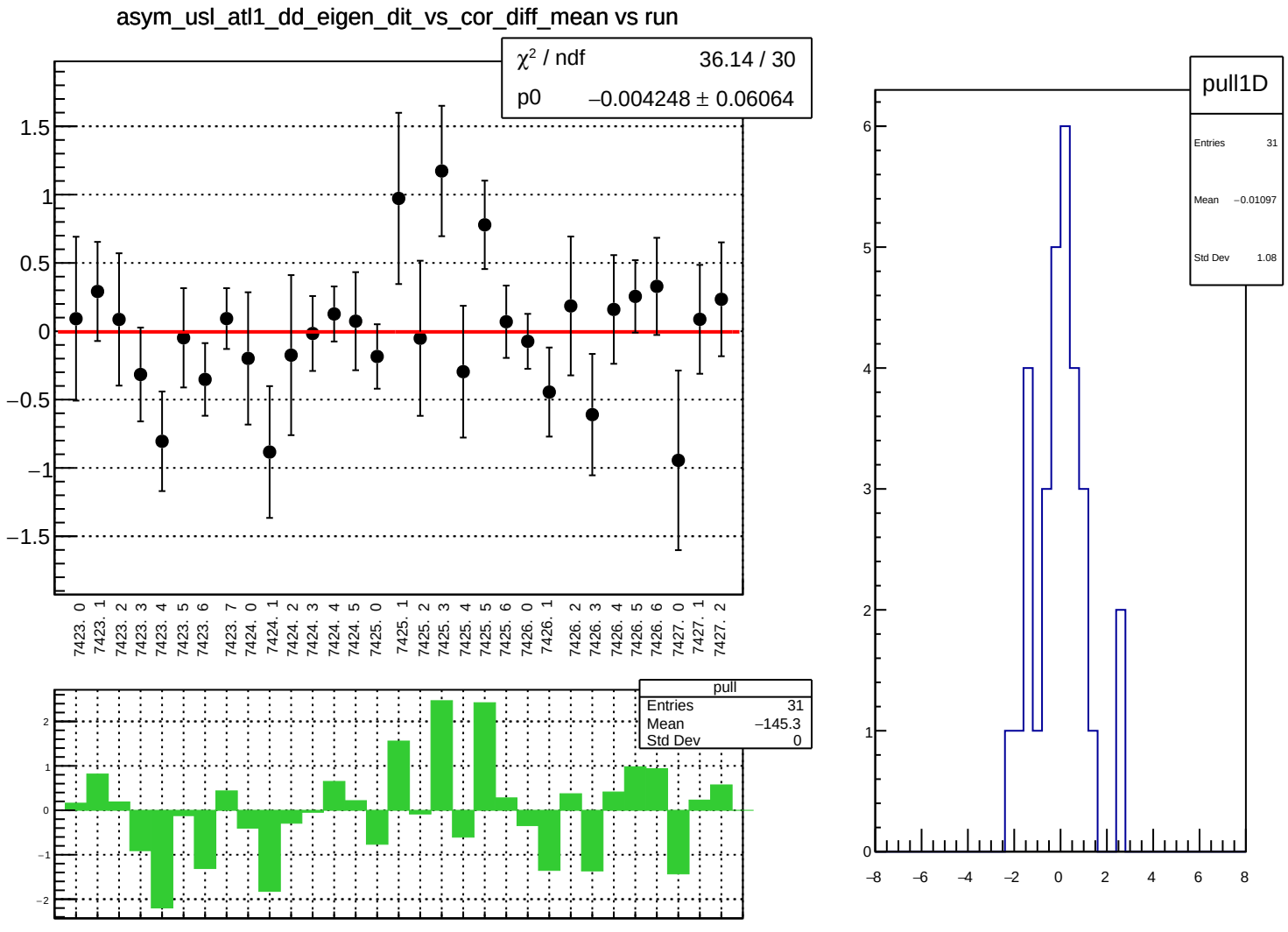

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.831e+04 / 30
p0 31.43 ± 0.04288
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

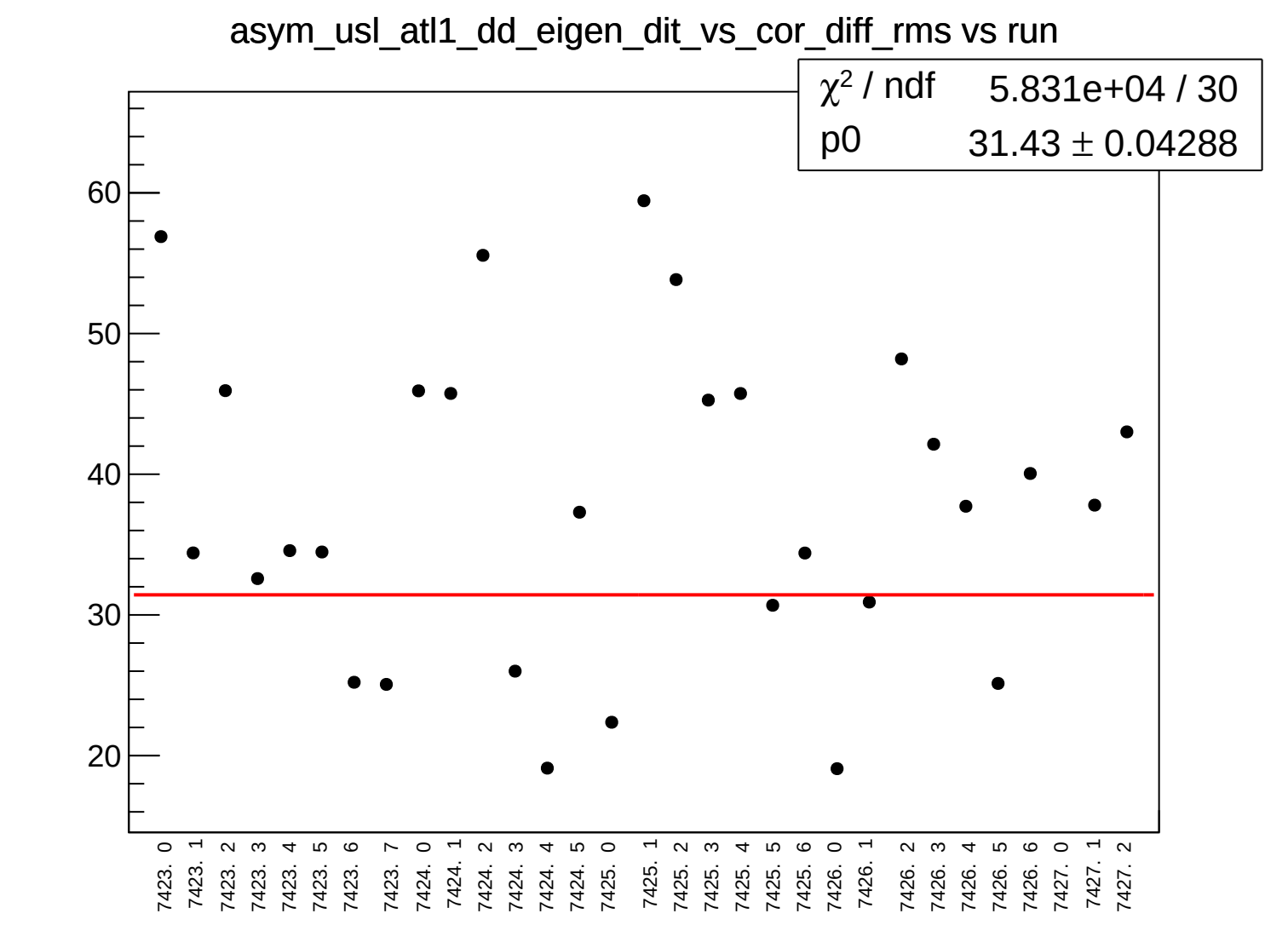

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.14 / 30
p0 −0.004248 ± 0.06064
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −145.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.01097
Std Dev 1.08
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

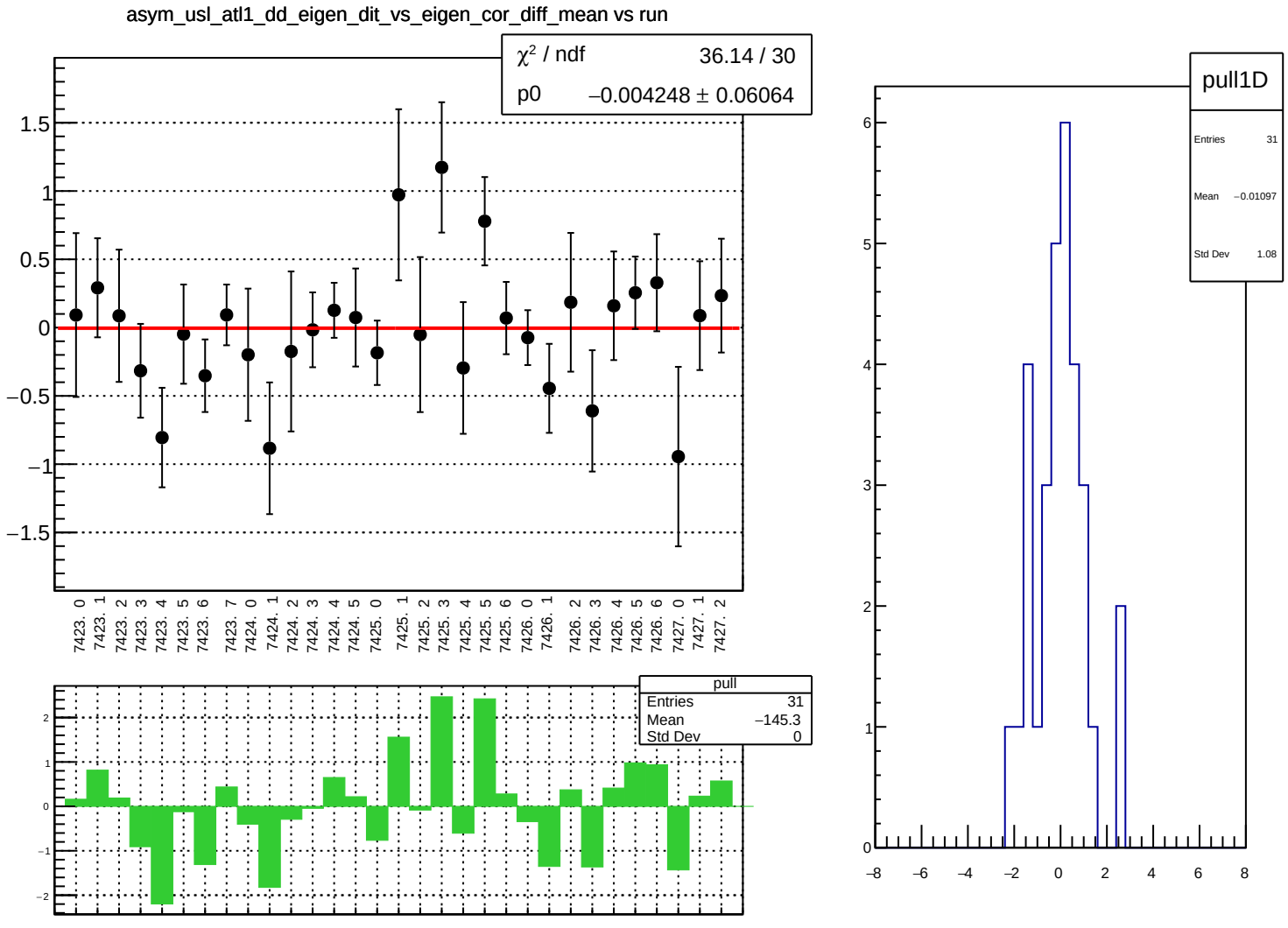

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.831e+04 / 30
p0 31.43 ± 0.04288
60
50
40
30
20
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

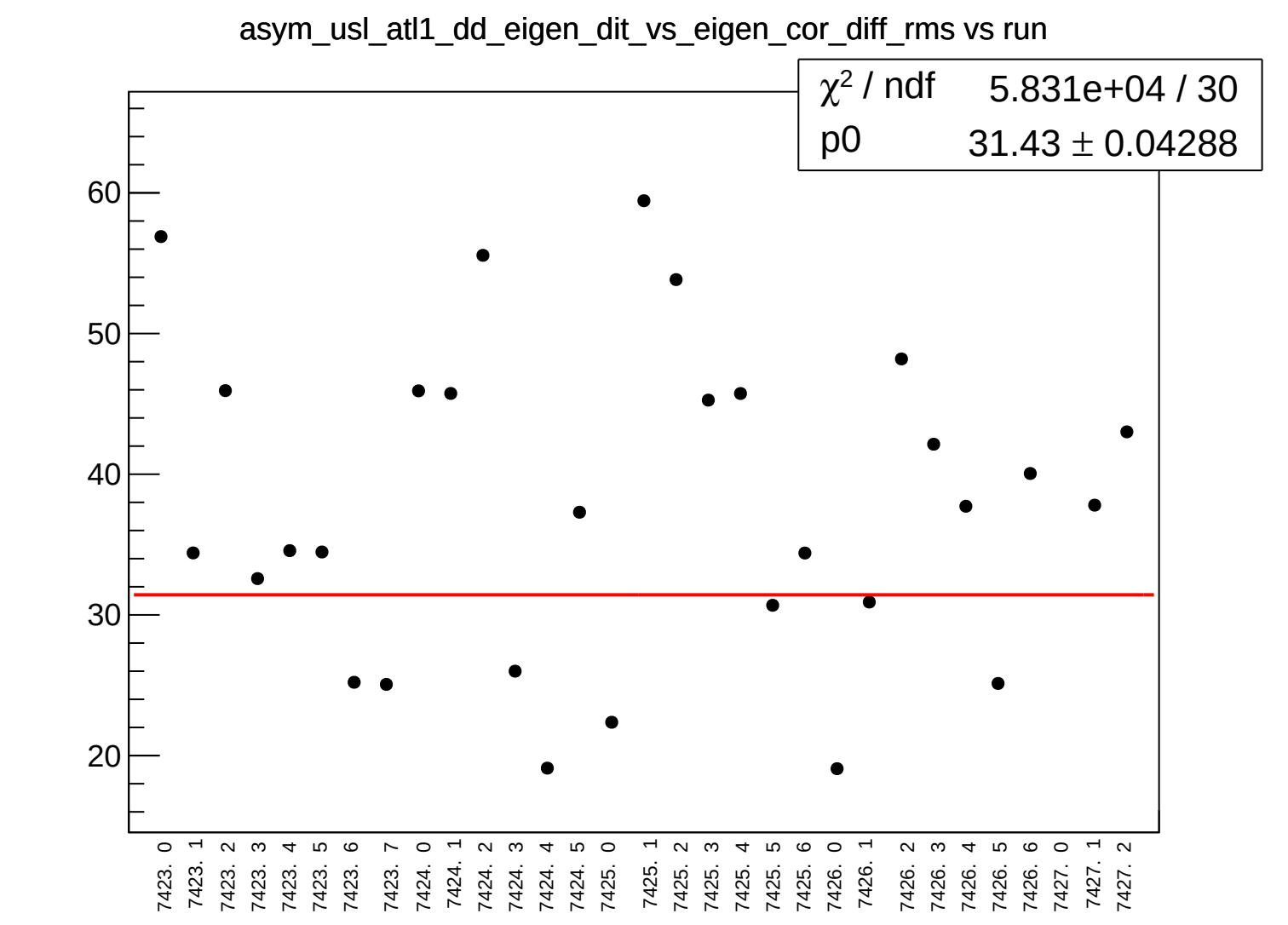

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 22.77 / 30
p0 1.026e−06 ± 6.875e−07
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −78.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01866
Std Dev 0.8569
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

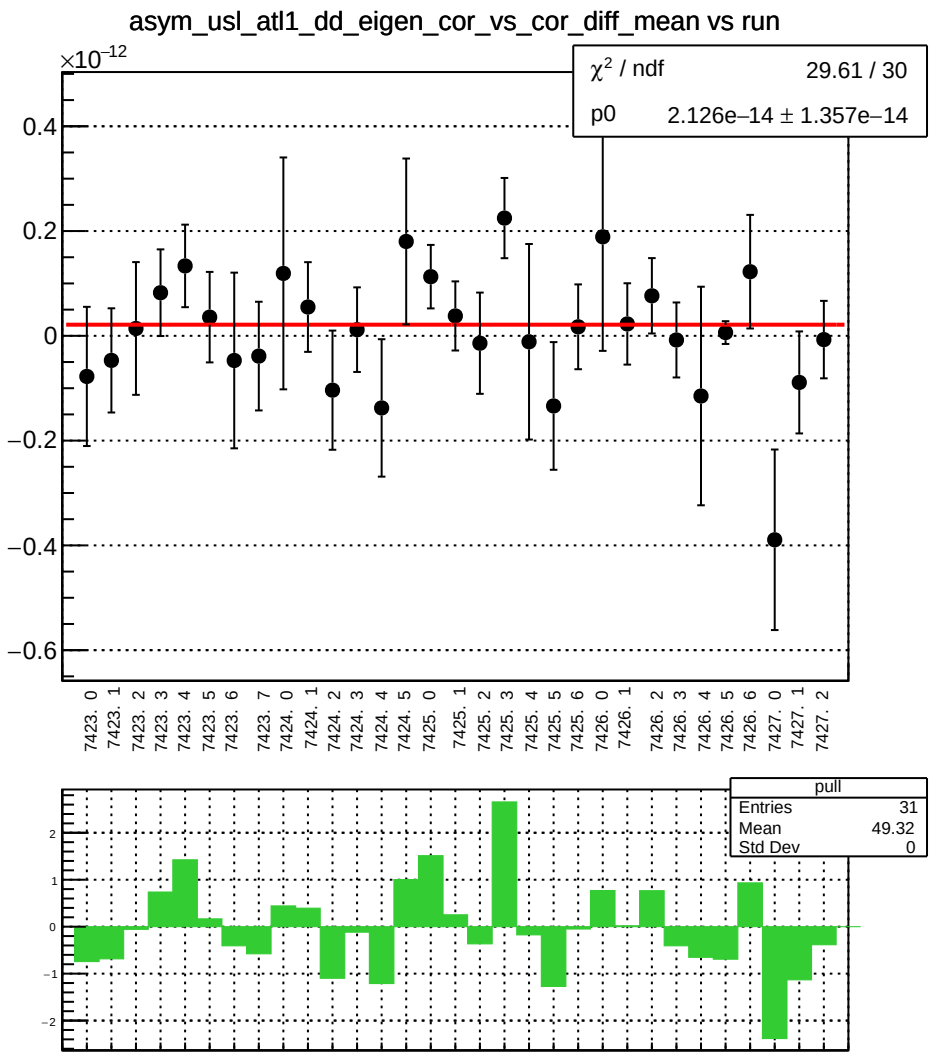

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1105 / 30
p0 0.0003748 ± 4.861e−07
0.41
0.4
0.39
0.38
0.37
0.36
0.35
0.34
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

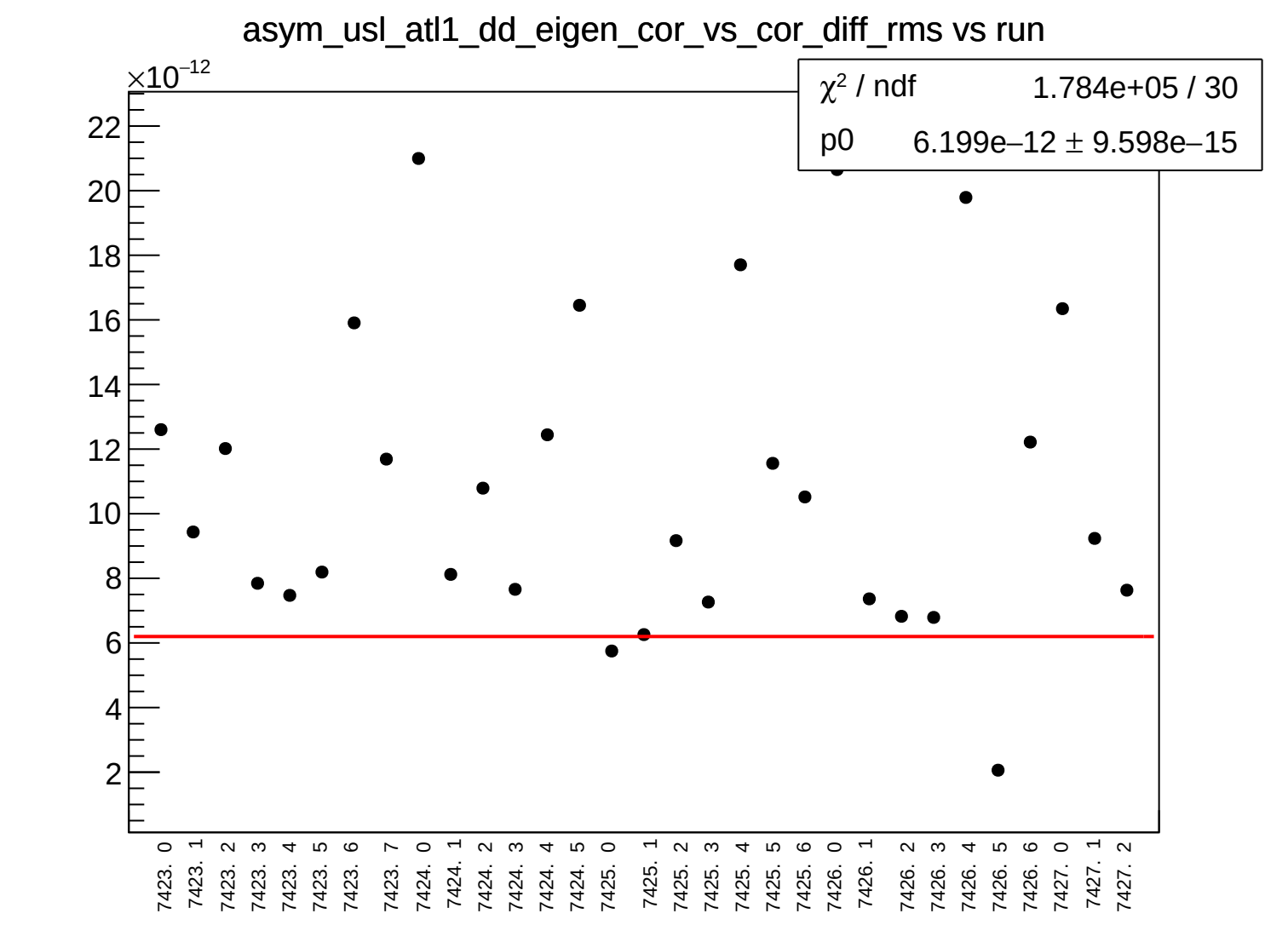

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.14 / 30
p0 −0.004248 ± 0.06064
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −145.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.01097
Std Dev 1.08
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

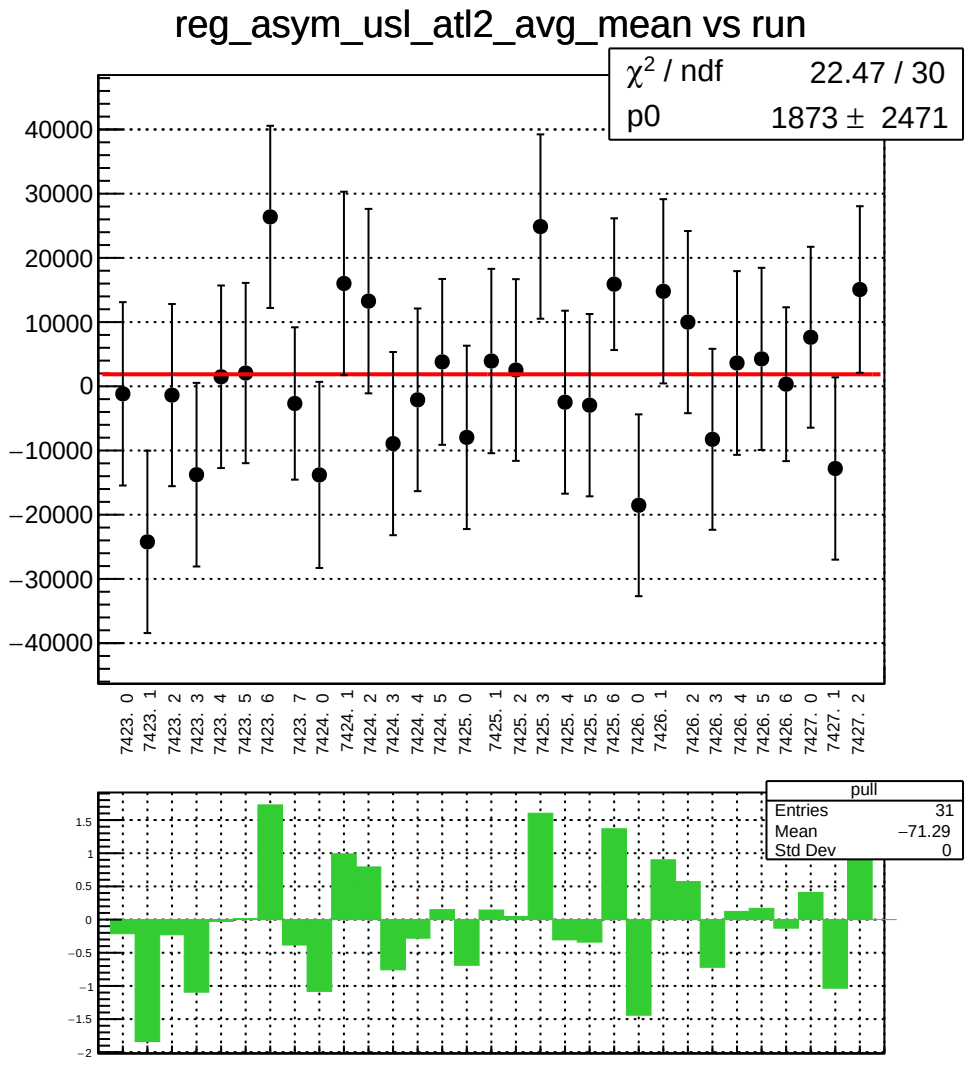

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.831e+04 / 30
p0 31.43 ± 0.04288
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

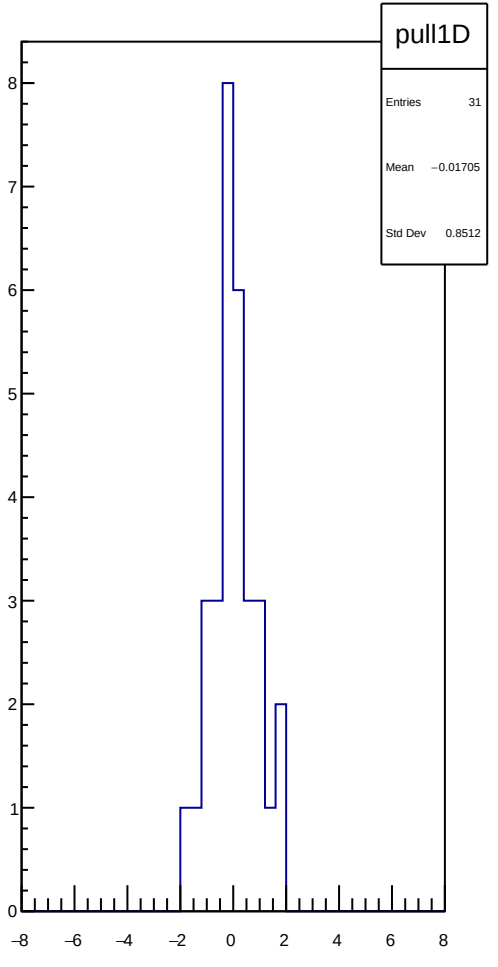

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.14 / 30
p0 −0.004248 ± 0.06064
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −145.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.01097
Std Dev 1.08
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

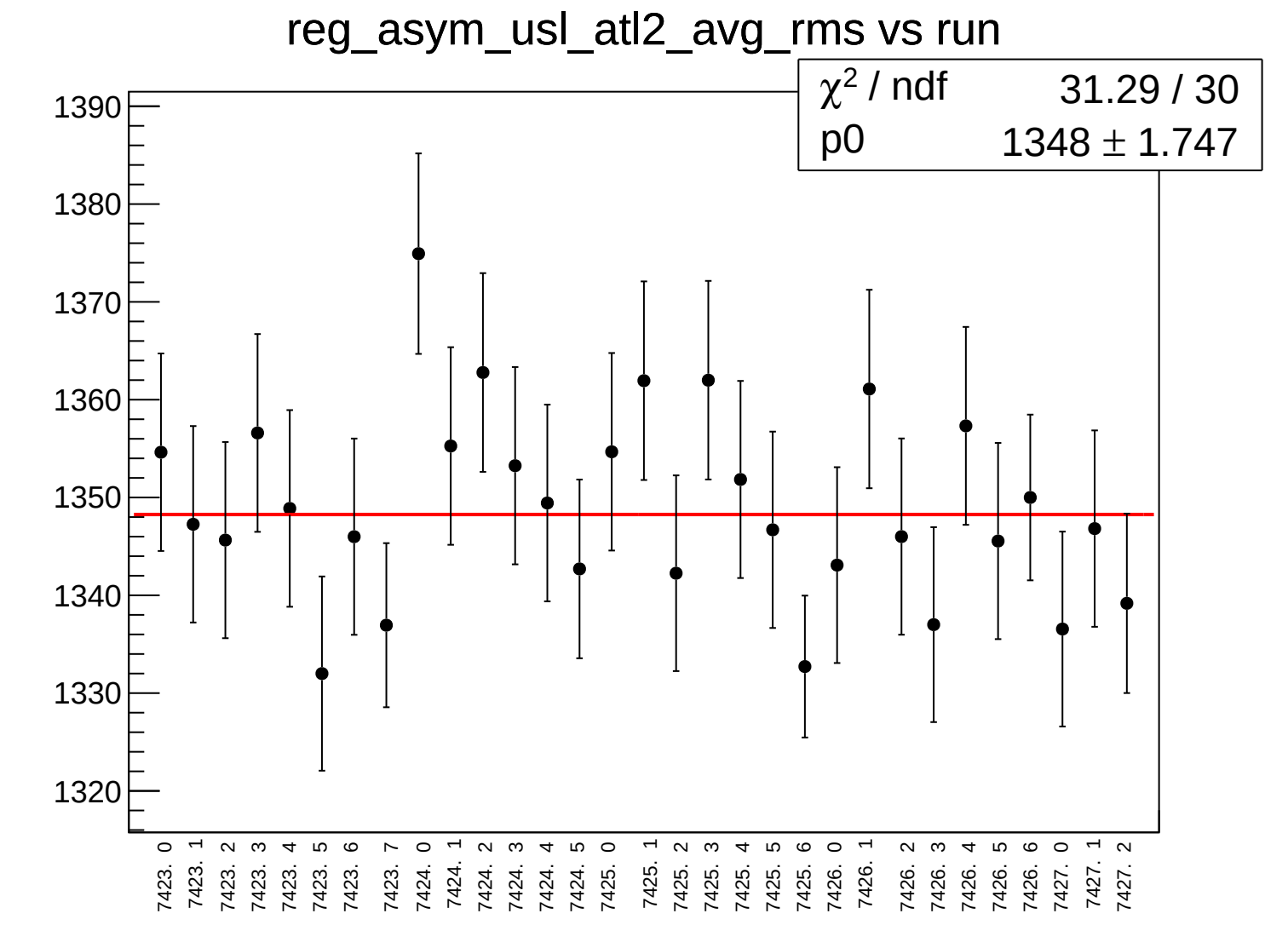

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.831e+04 / 30
p0 31.43 ± 0.04288
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

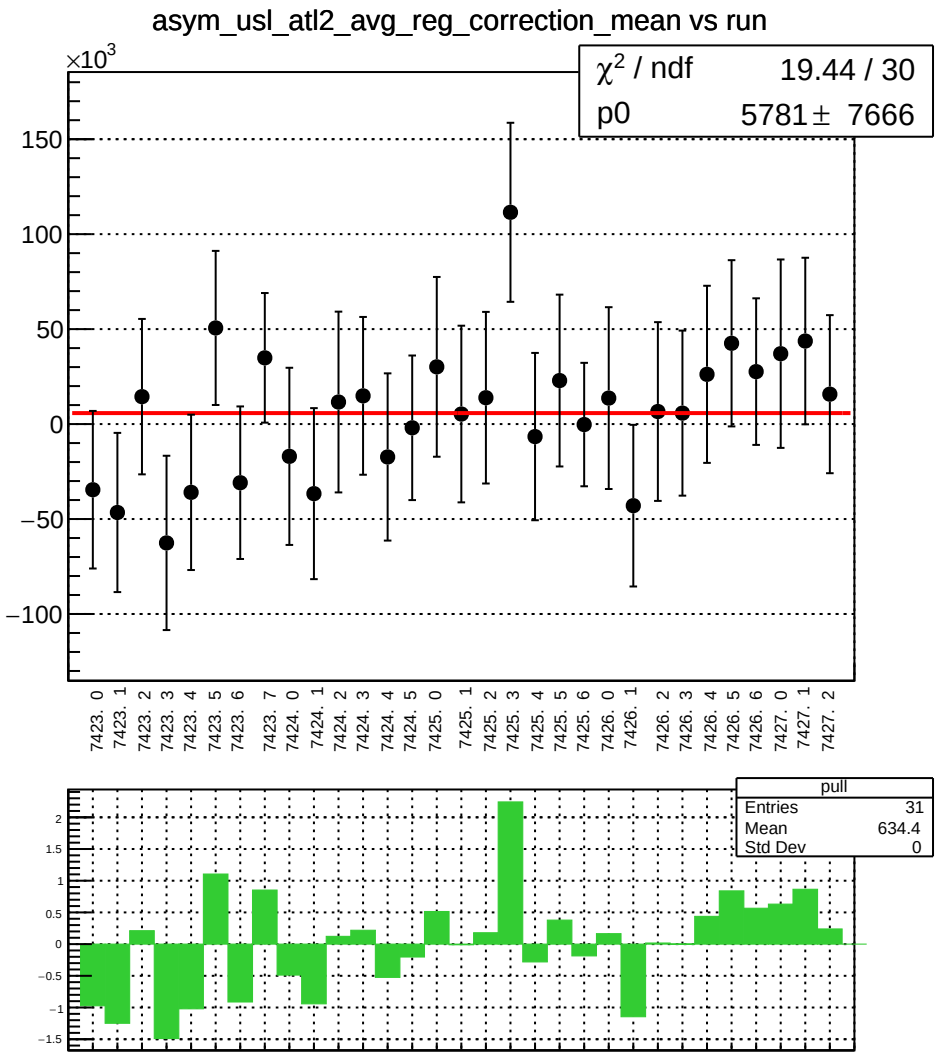

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.61 / 30
p0 2.126e−14 ± 1.357e−14
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.32
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.04296
Std Dev 0.9763
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

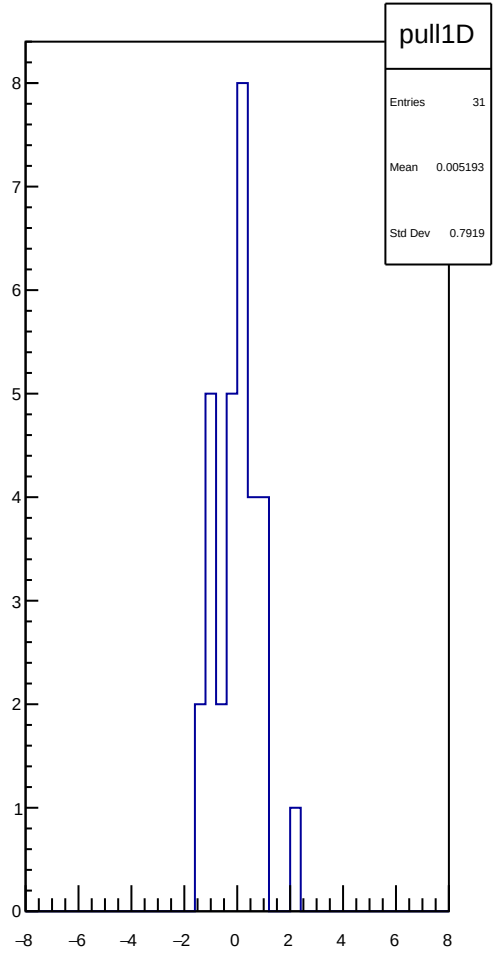

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.784e+05 / 30
p0 6.199e−12 ± 9.598e−15
22
20
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

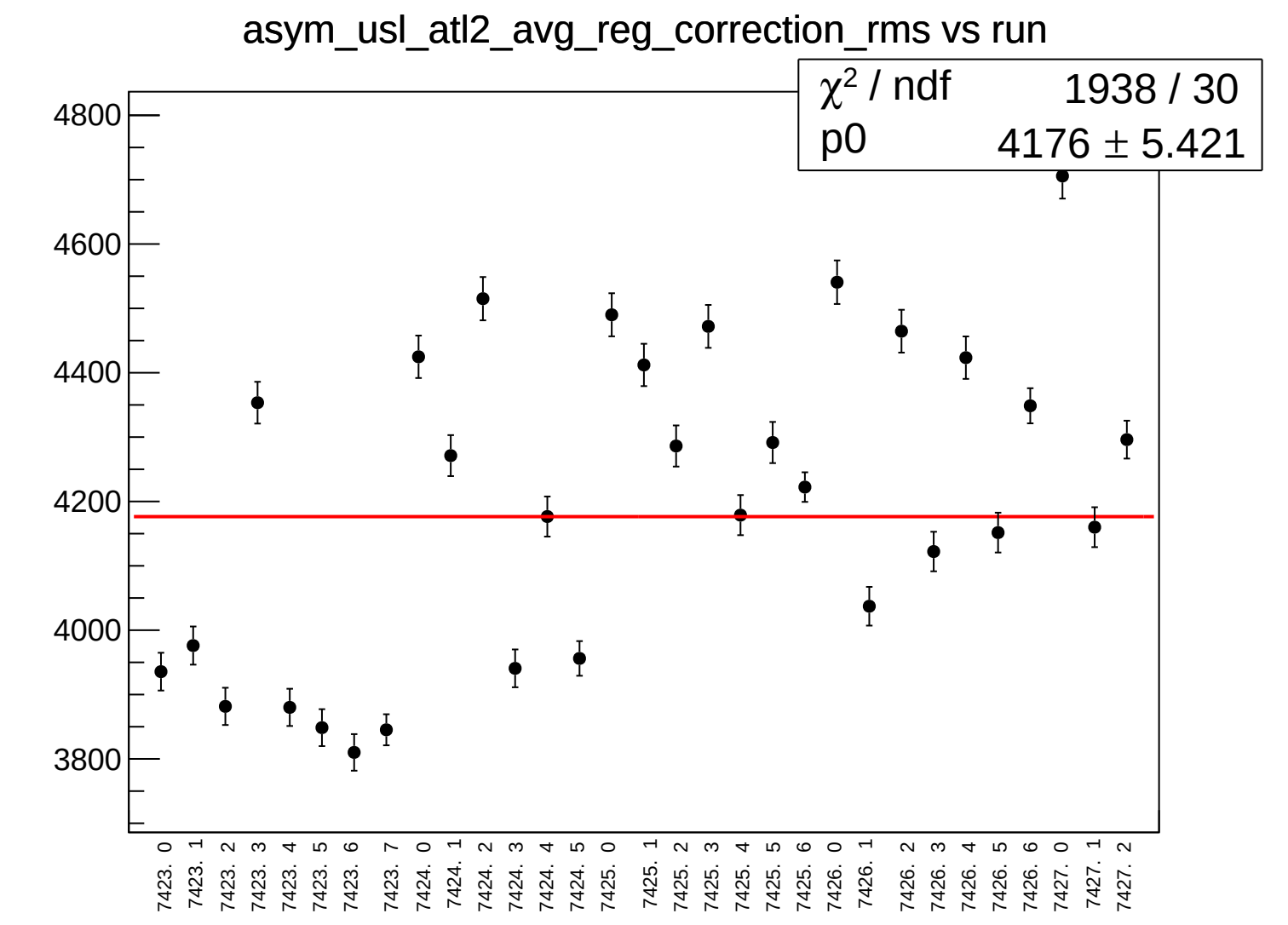

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 22.47 / 30
p0 1873 ± 2471
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −71.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

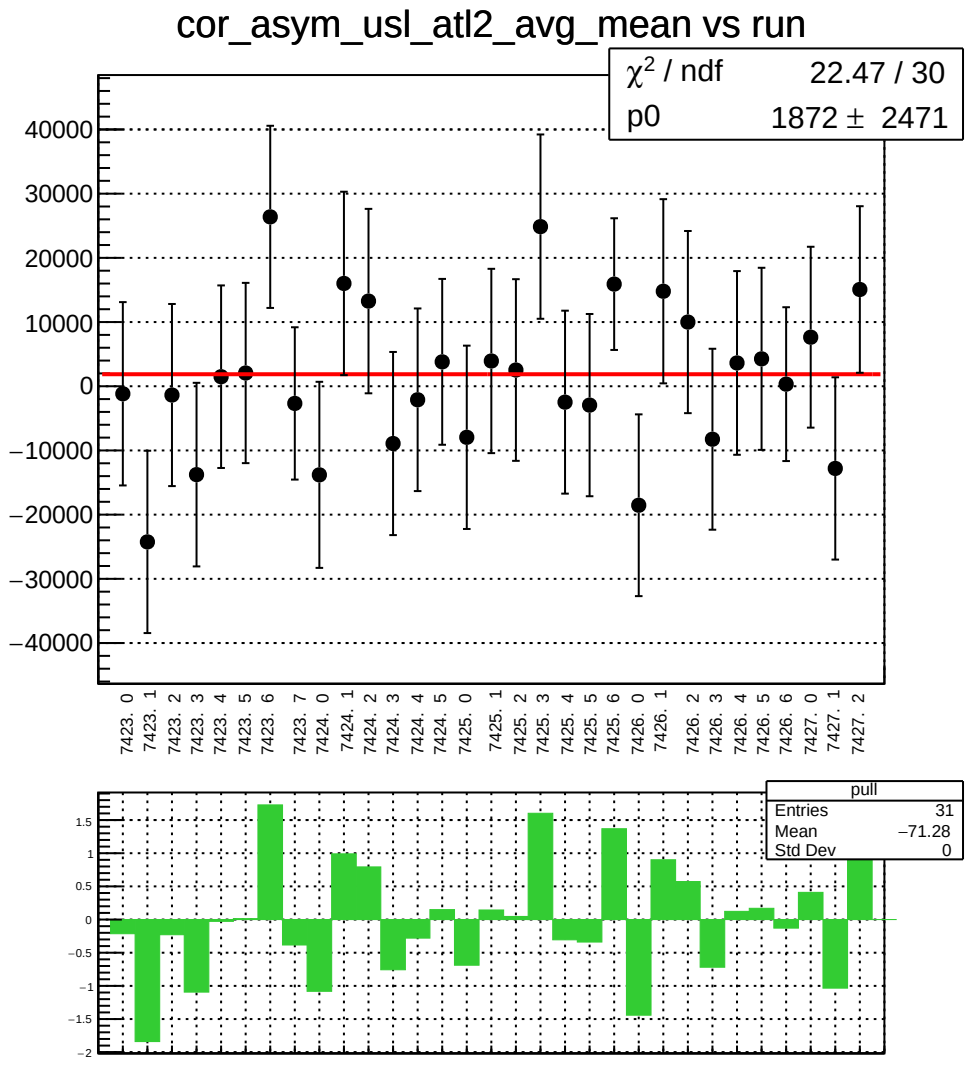

pull1D
Entries 31
Mean −0.01705
Std Dev 0.8512
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

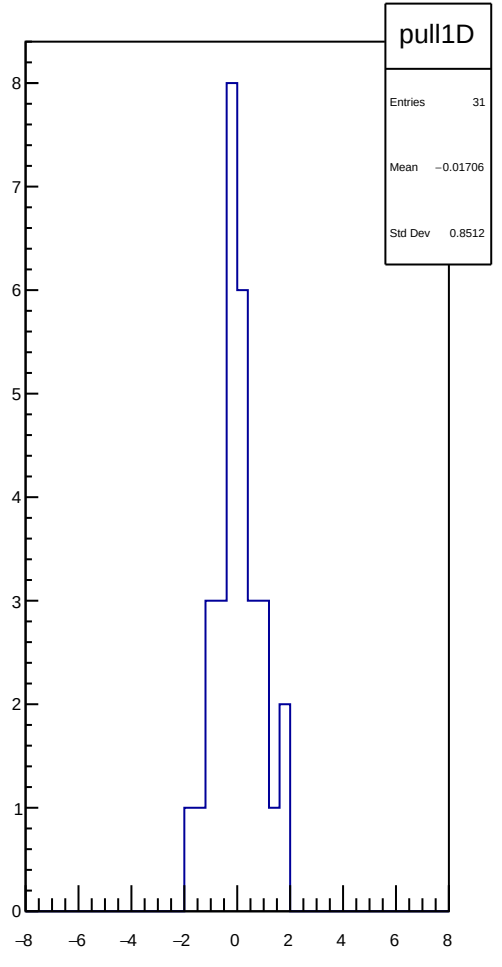

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 31.29 / 30
p0 1348 ± 1.747
1390
1380
1370
1360
1350
1340
1330
1320
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

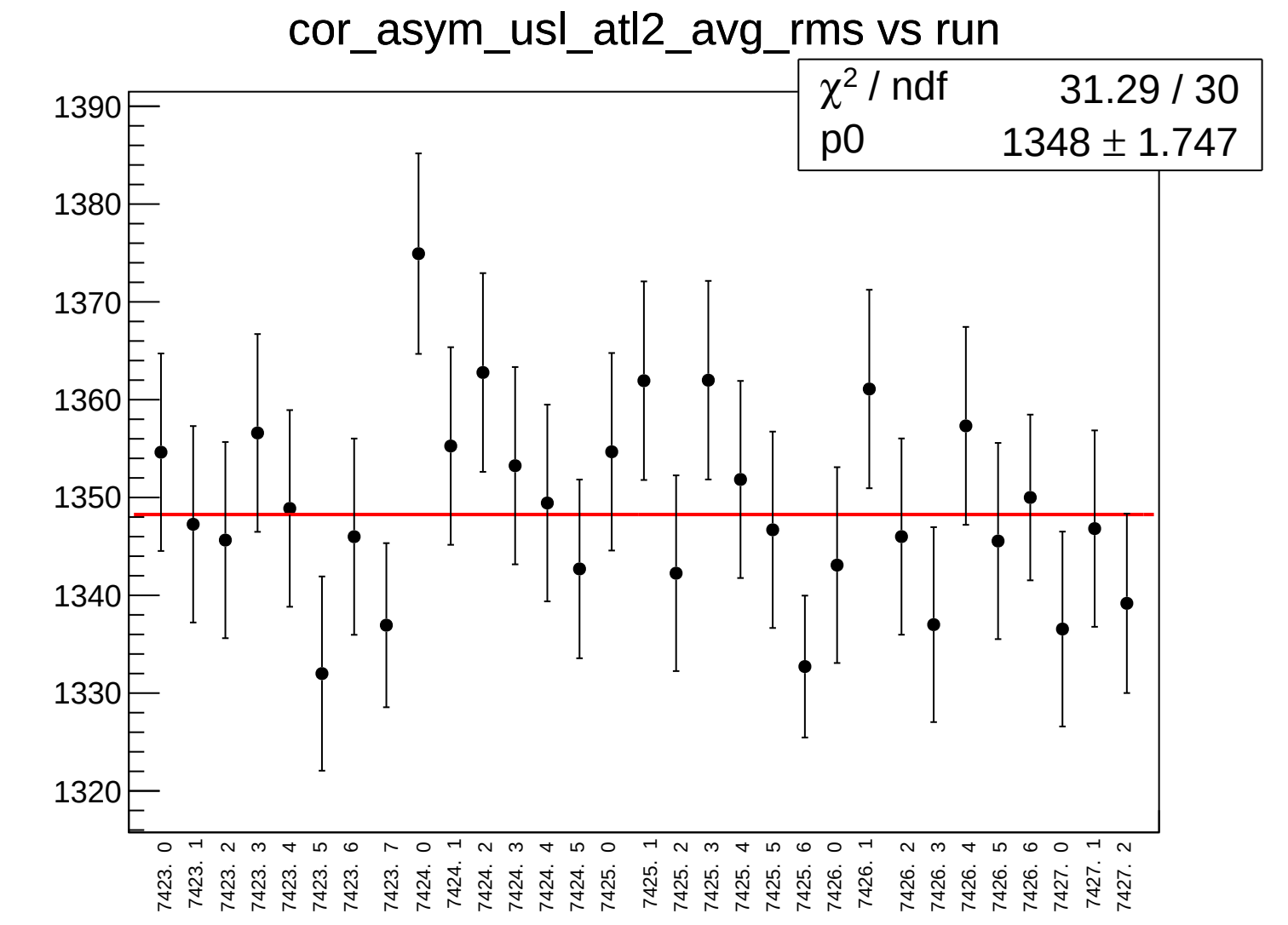

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 19.44 / 30
p0 5781 ± 7666
×10³
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 634.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

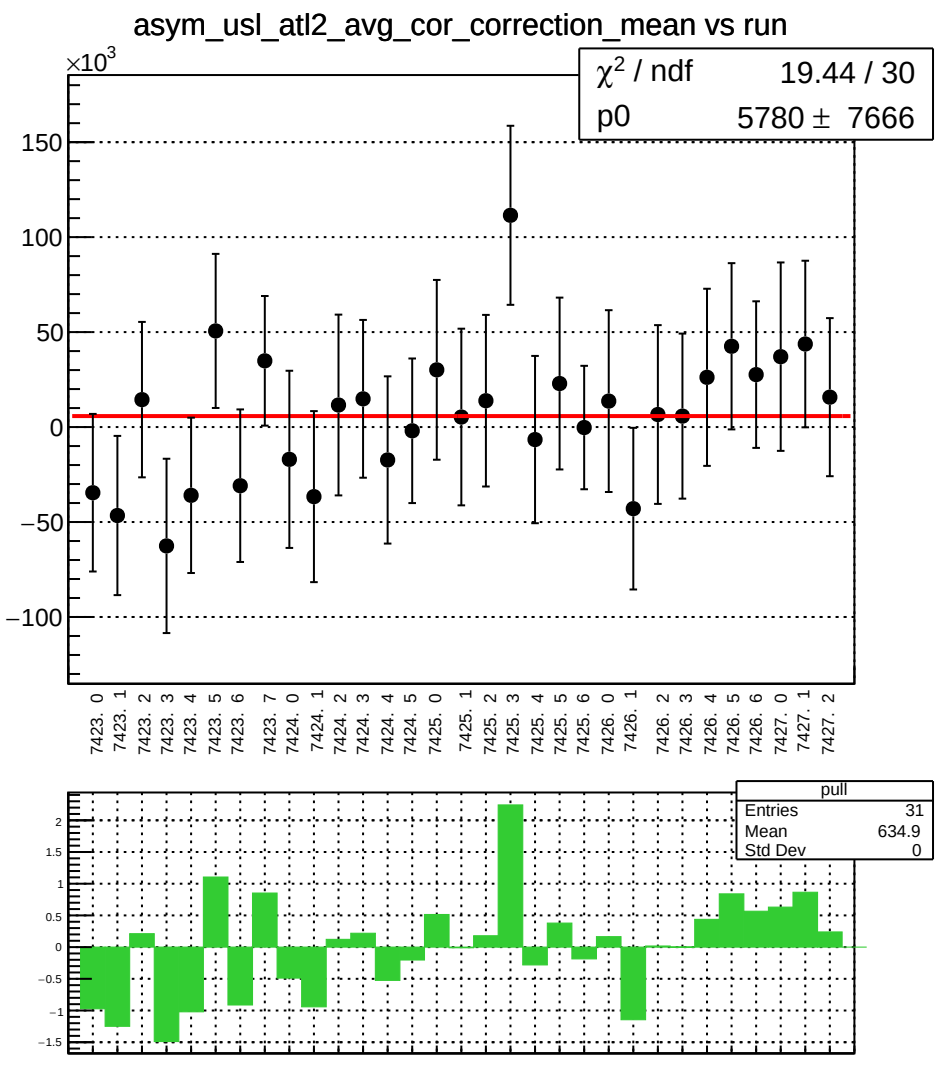

pull1D
Entries 31
Mean 0.005193
Std Dev 0.7919
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

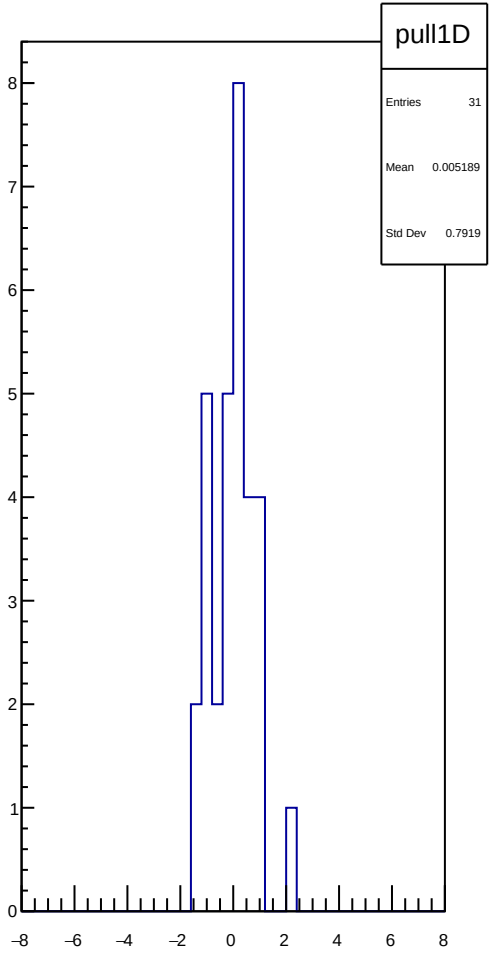

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1938 / 30
p0 4176 ± 5.421
4800
4600
4400
4200
4000
3800
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

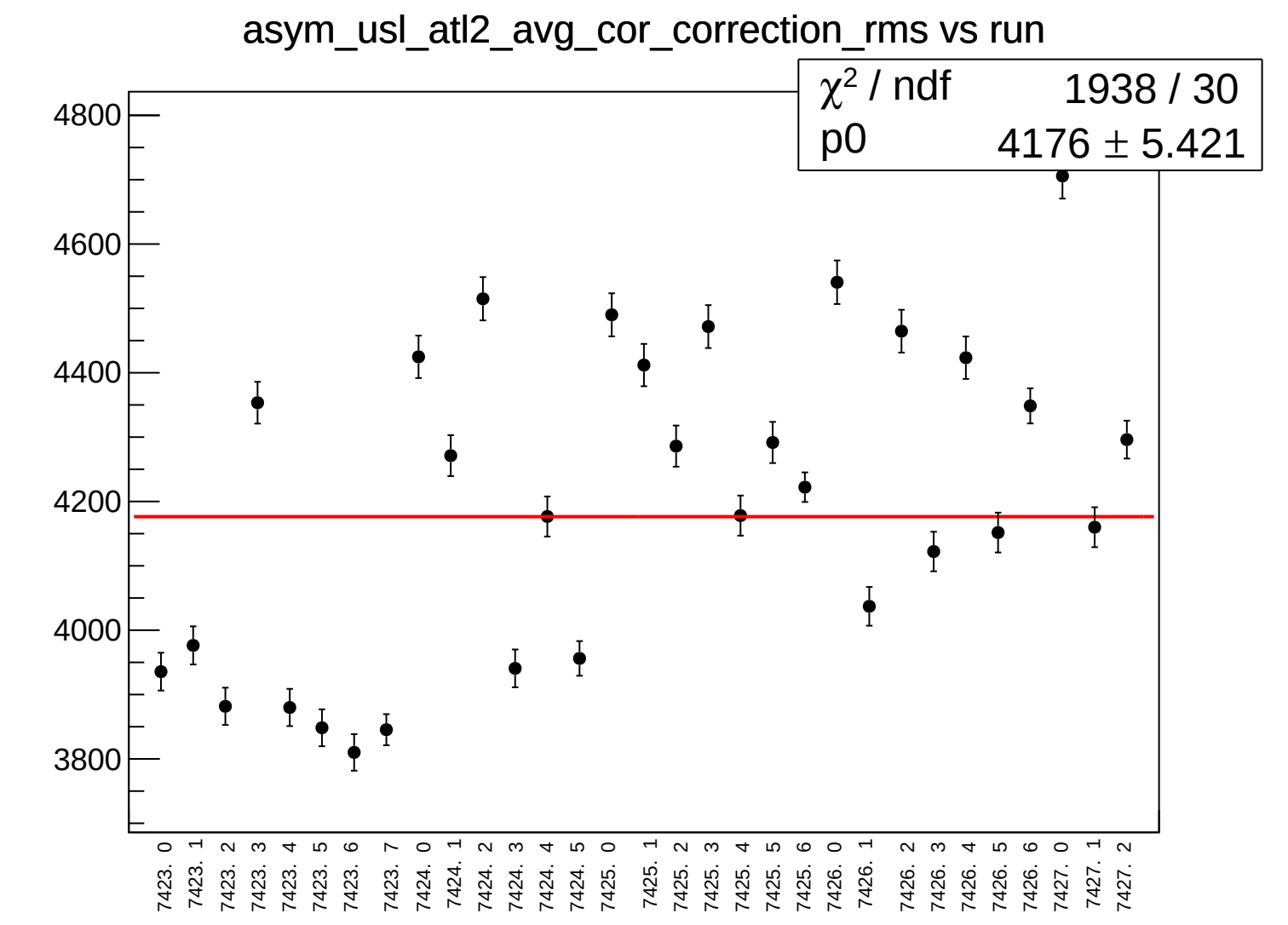

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 22.47 / 30
p0 1872 ± 2471
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −71.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

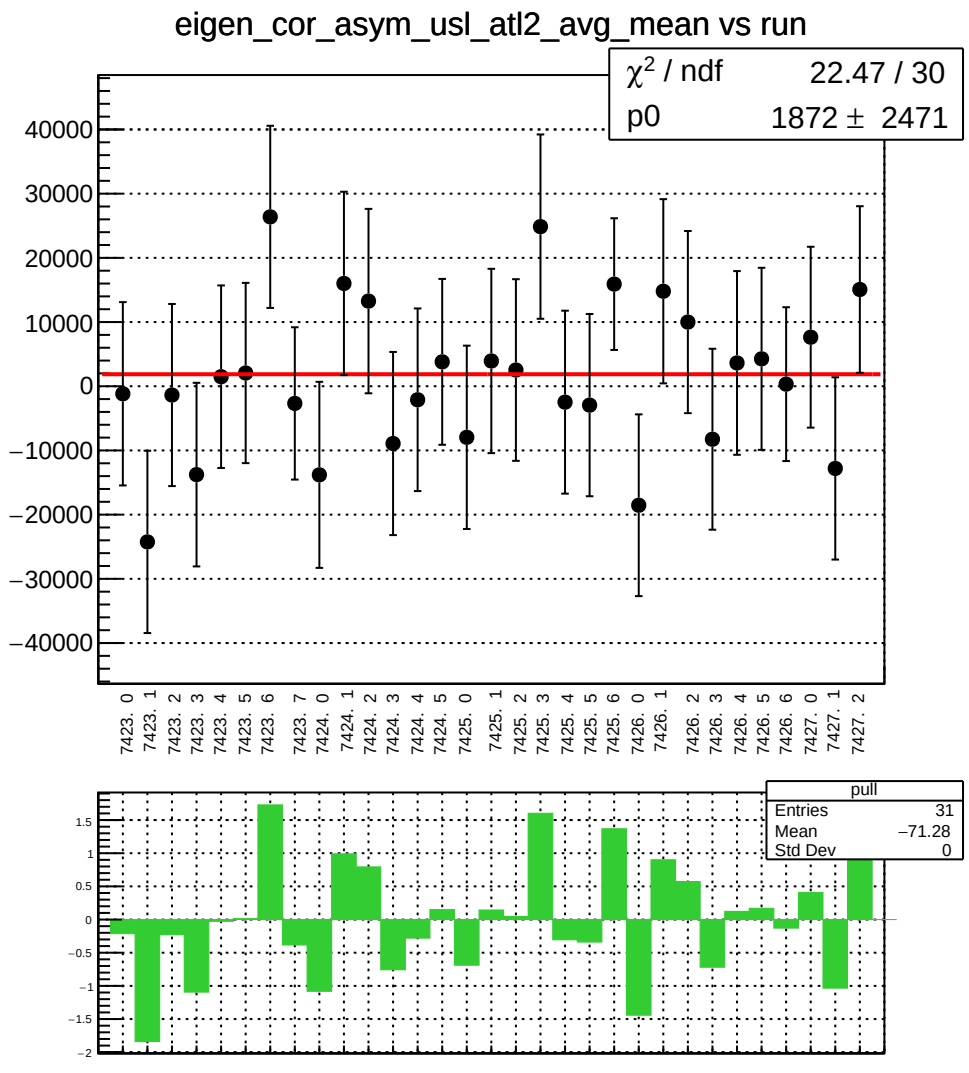

pull1D
Entries 31
Mean −0.01706
Std Dev 0.8512
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

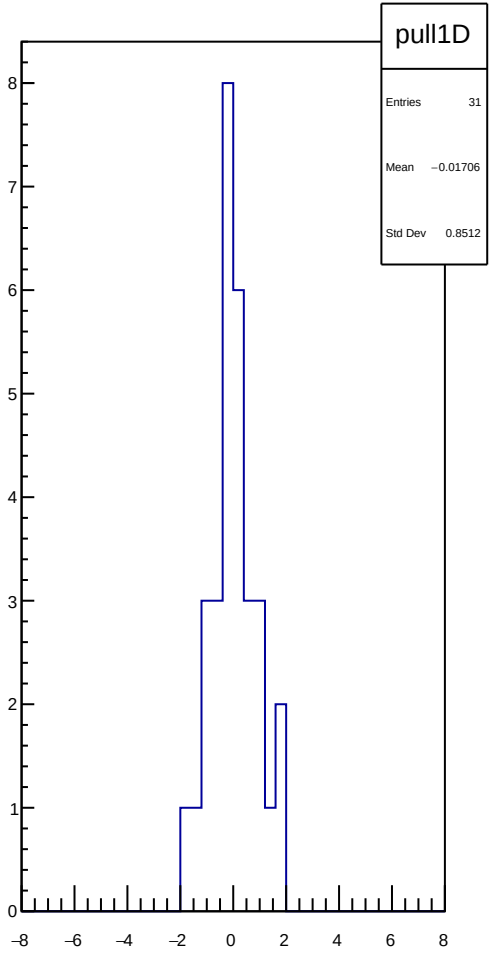

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 31.29 / 30
p0 1348 ± 1.747
1390
1380
1370
1360
1350
1340
1330
1320
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

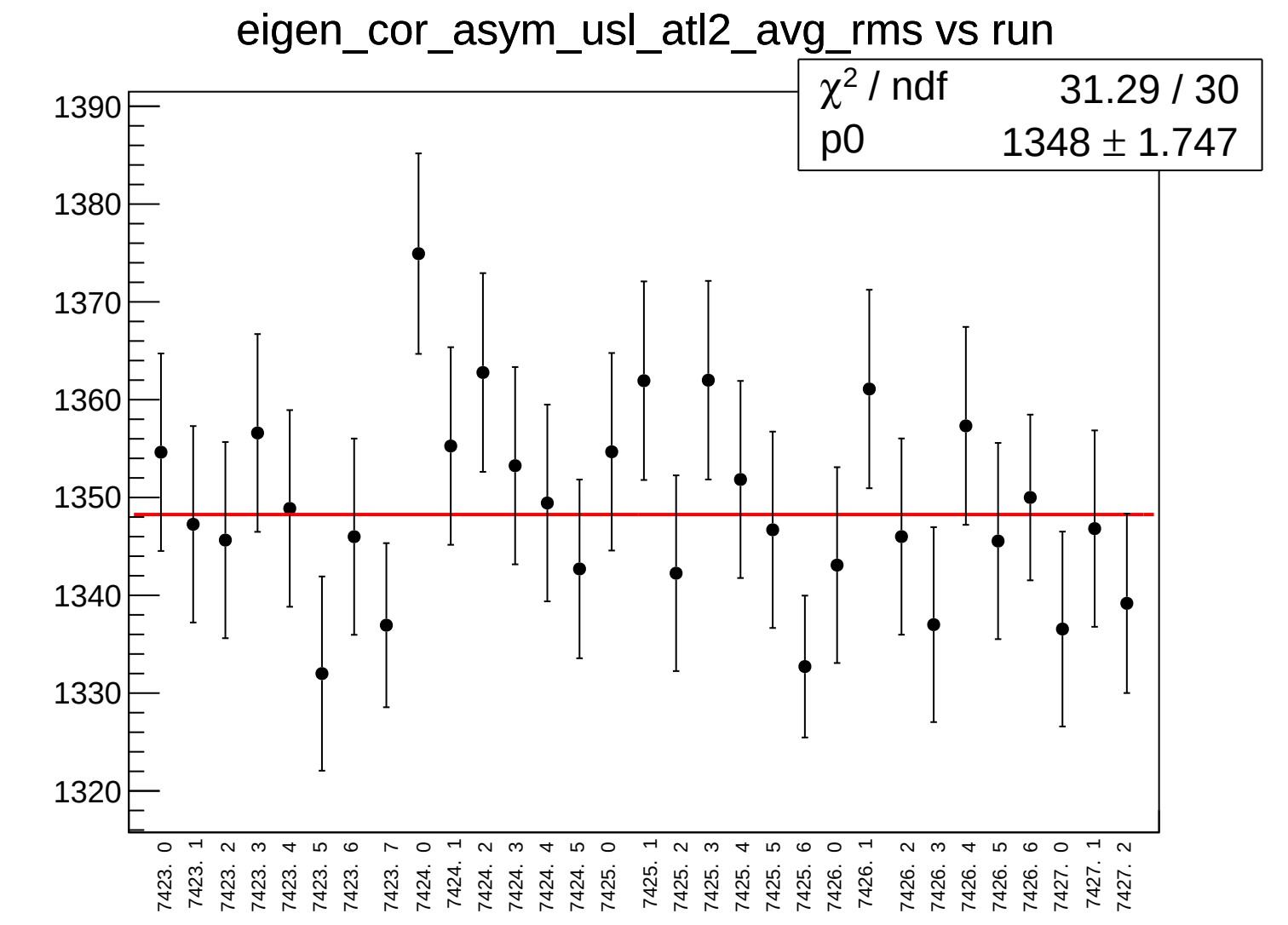

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 19.44 / 30
p0 5780 ± 7666
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 634.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

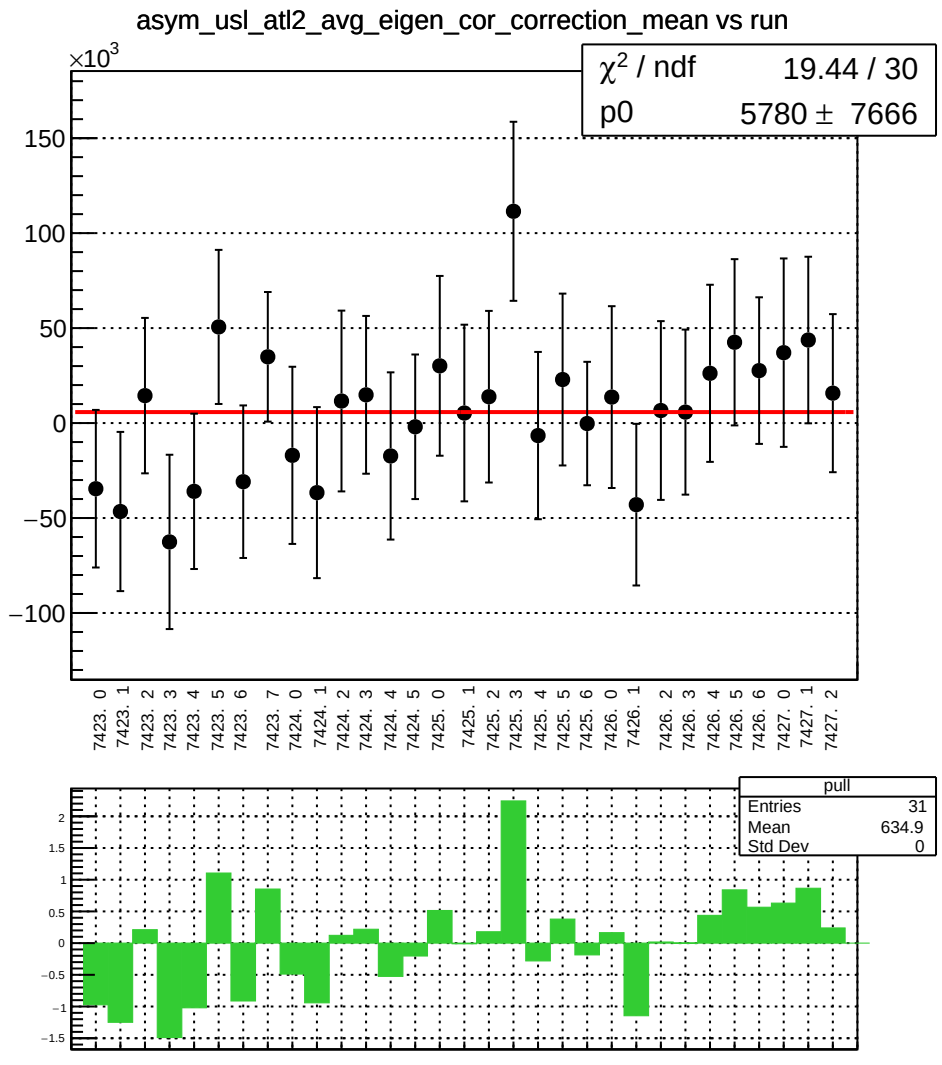

pull1D
Entries 31
Mean 0.005189
Std Dev 0.7919
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

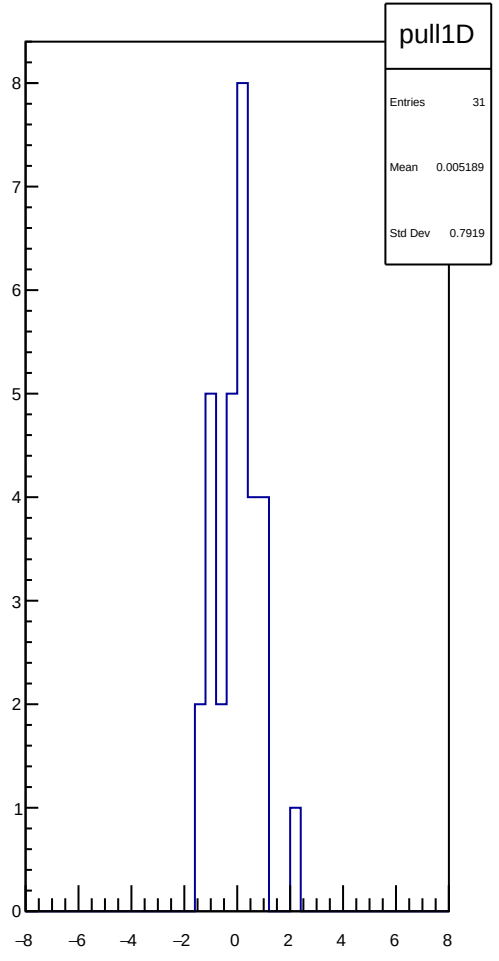

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1938 / 30
p0 4176 ± 5.421
4800
4600
4400
4200
4000
3800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

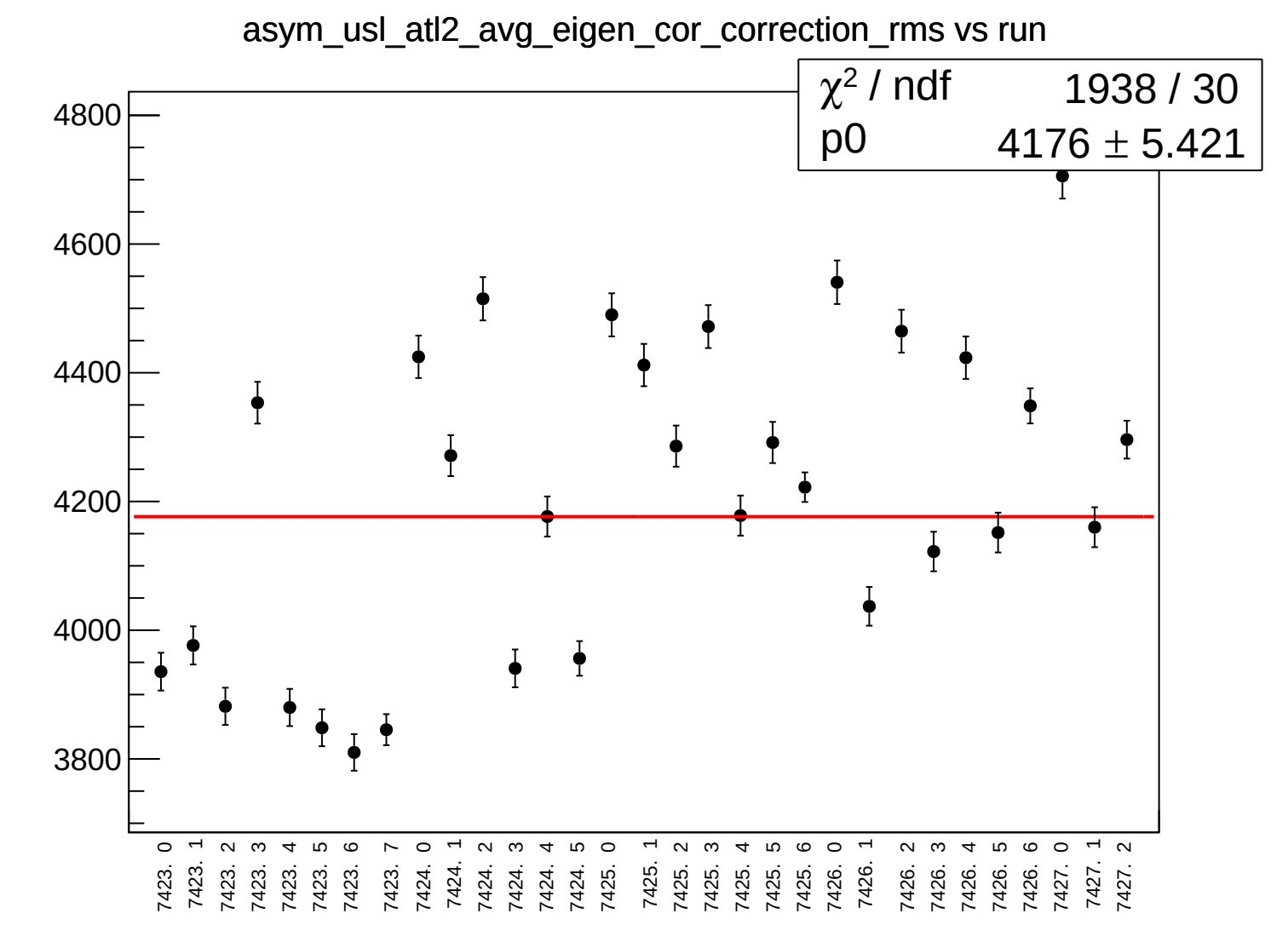

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 22.47 / 30
p0 1872 ± 2471
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −71.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

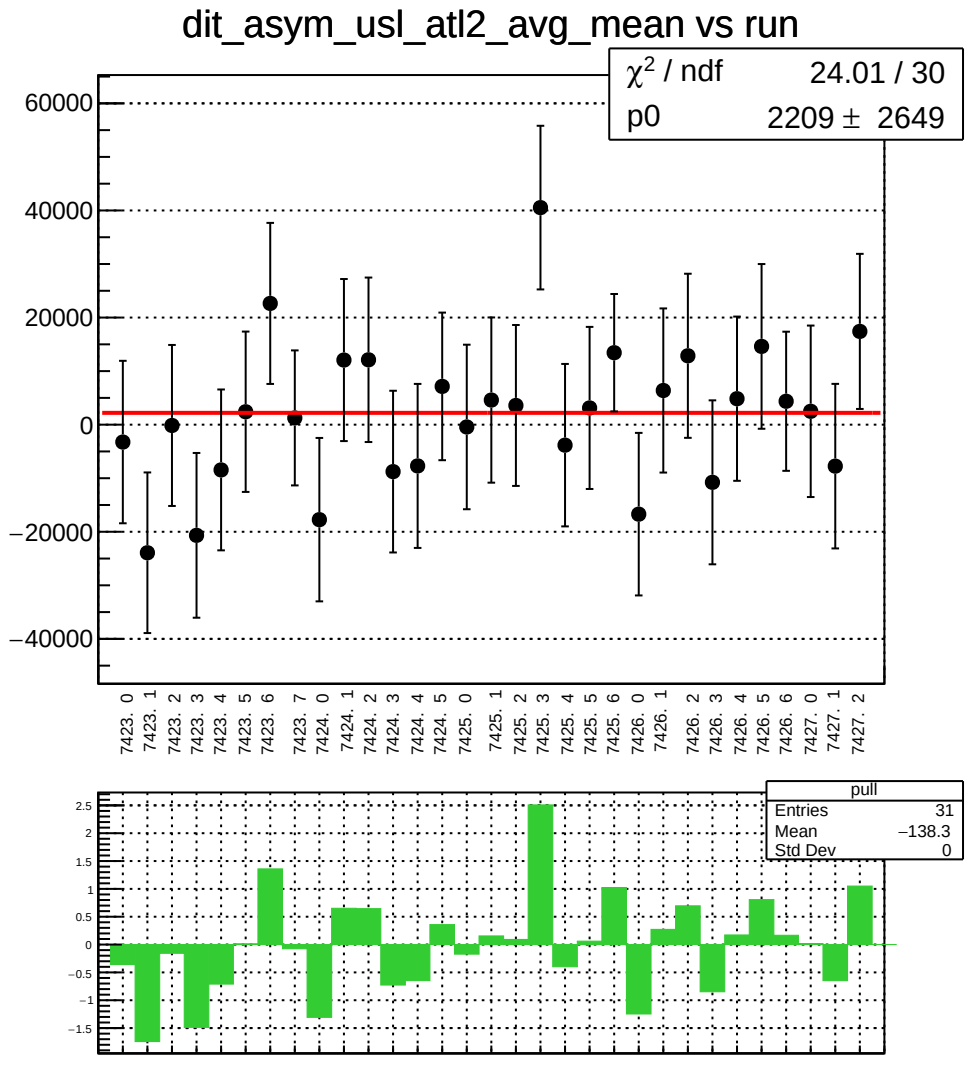

pull1D
Entries 31
Mean −0.01706
Std Dev 0.8512
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

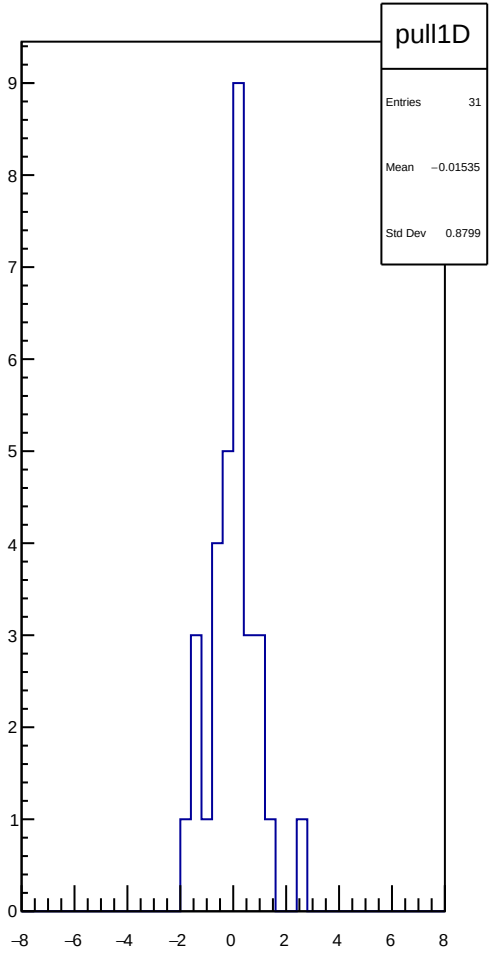

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 31.29 / 30
p0 1348 ± 1.747
1390
1380
1370
1360
1350
1340
1330
1320
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

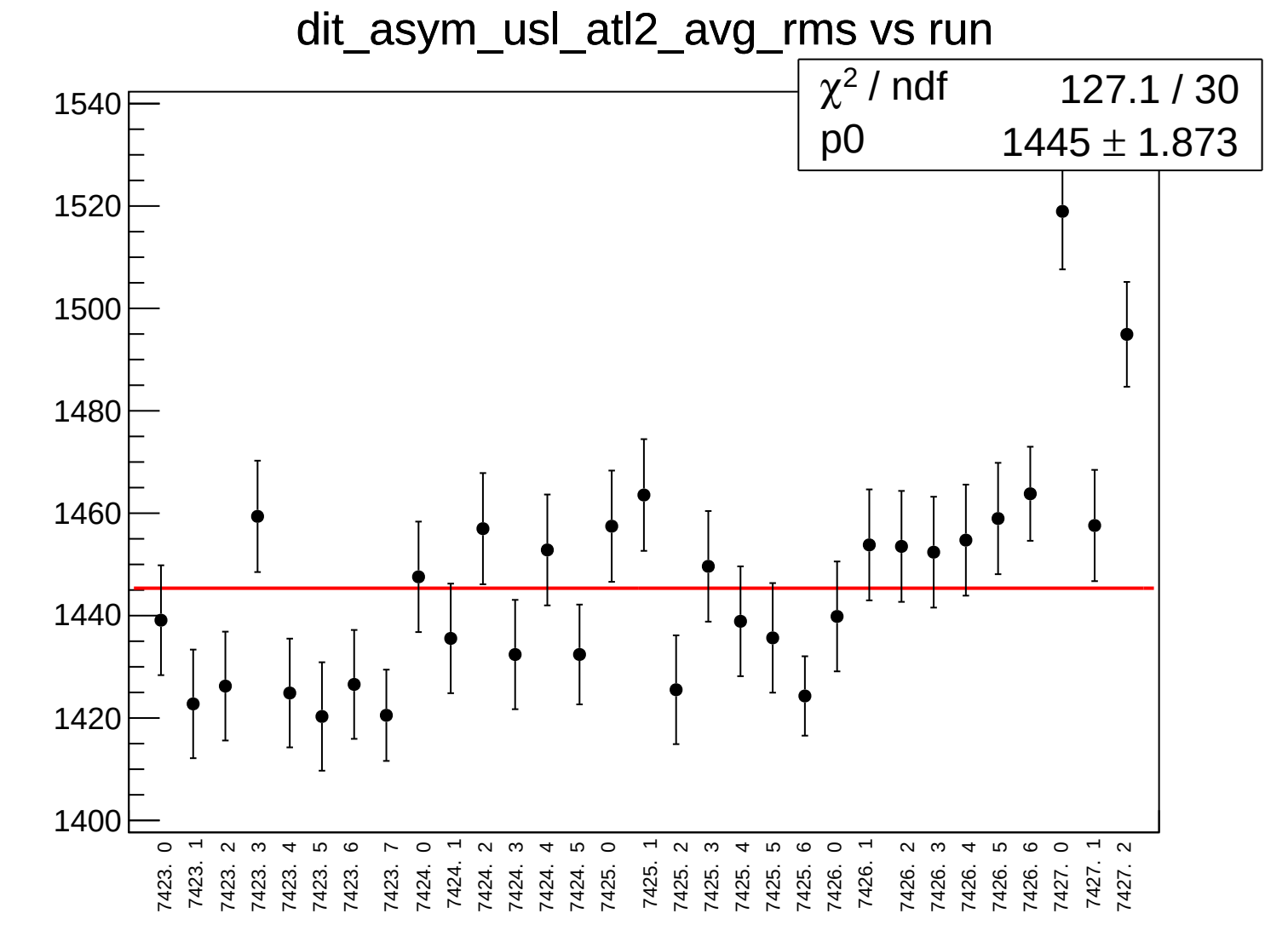

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 19.44 / 30
p0 5780 ± 7666
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 634.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

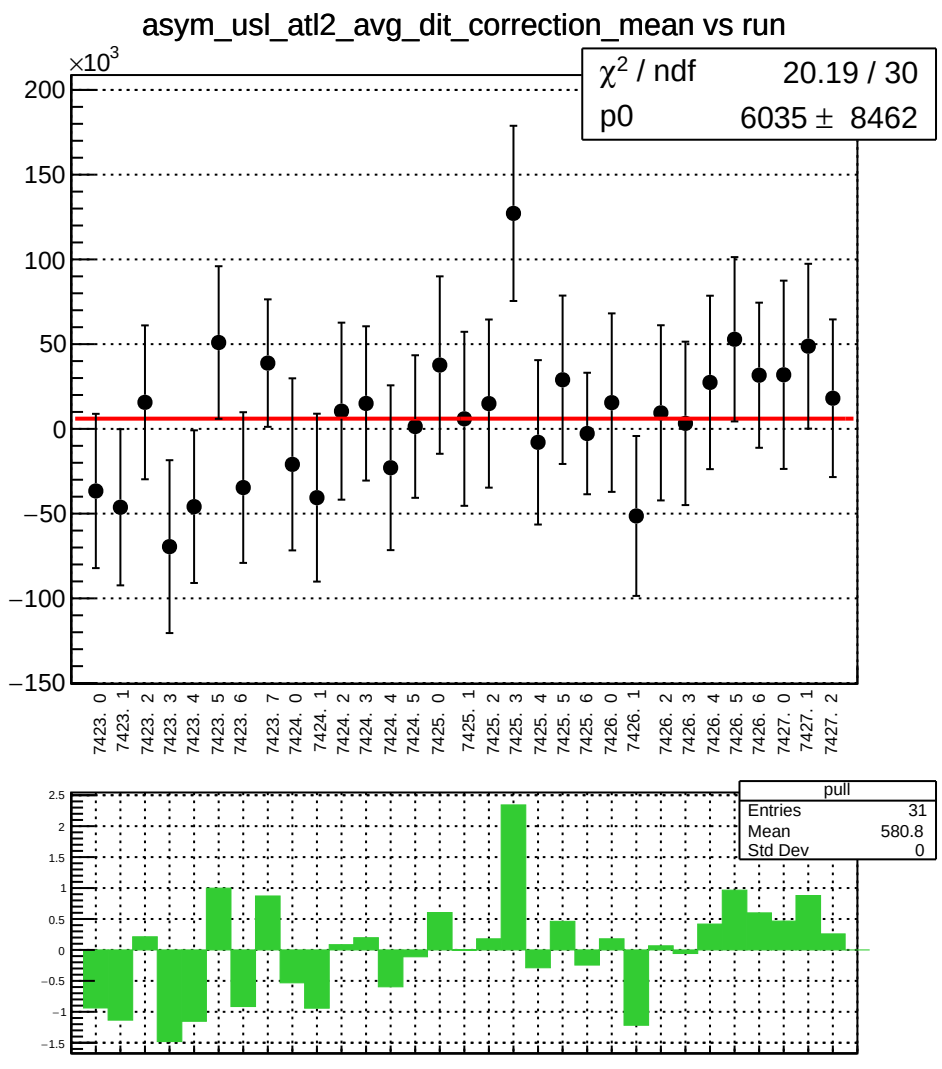

pull1D
Entries 31
Mean 0.005189
Std Dev 0.7919
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

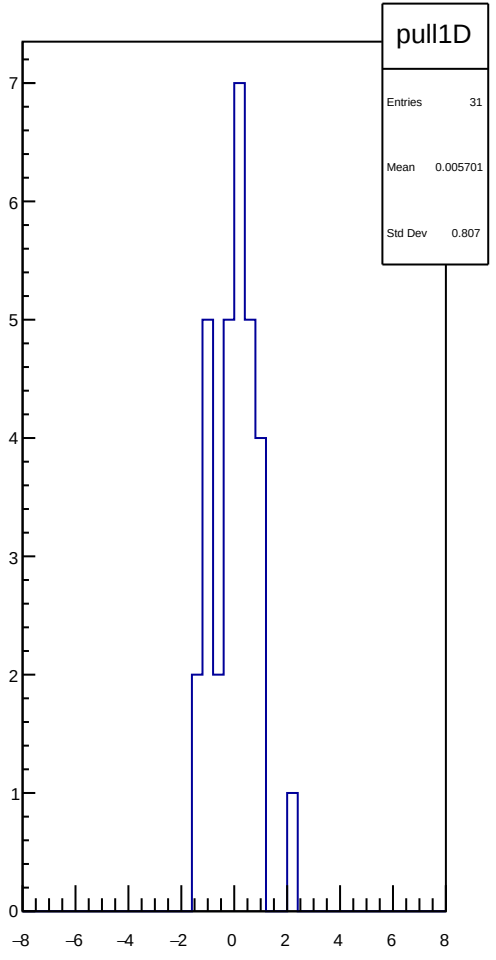

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1938 / 30
p0 4176 ± 5.421
4800
4600
4400
4200
4000
3800
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

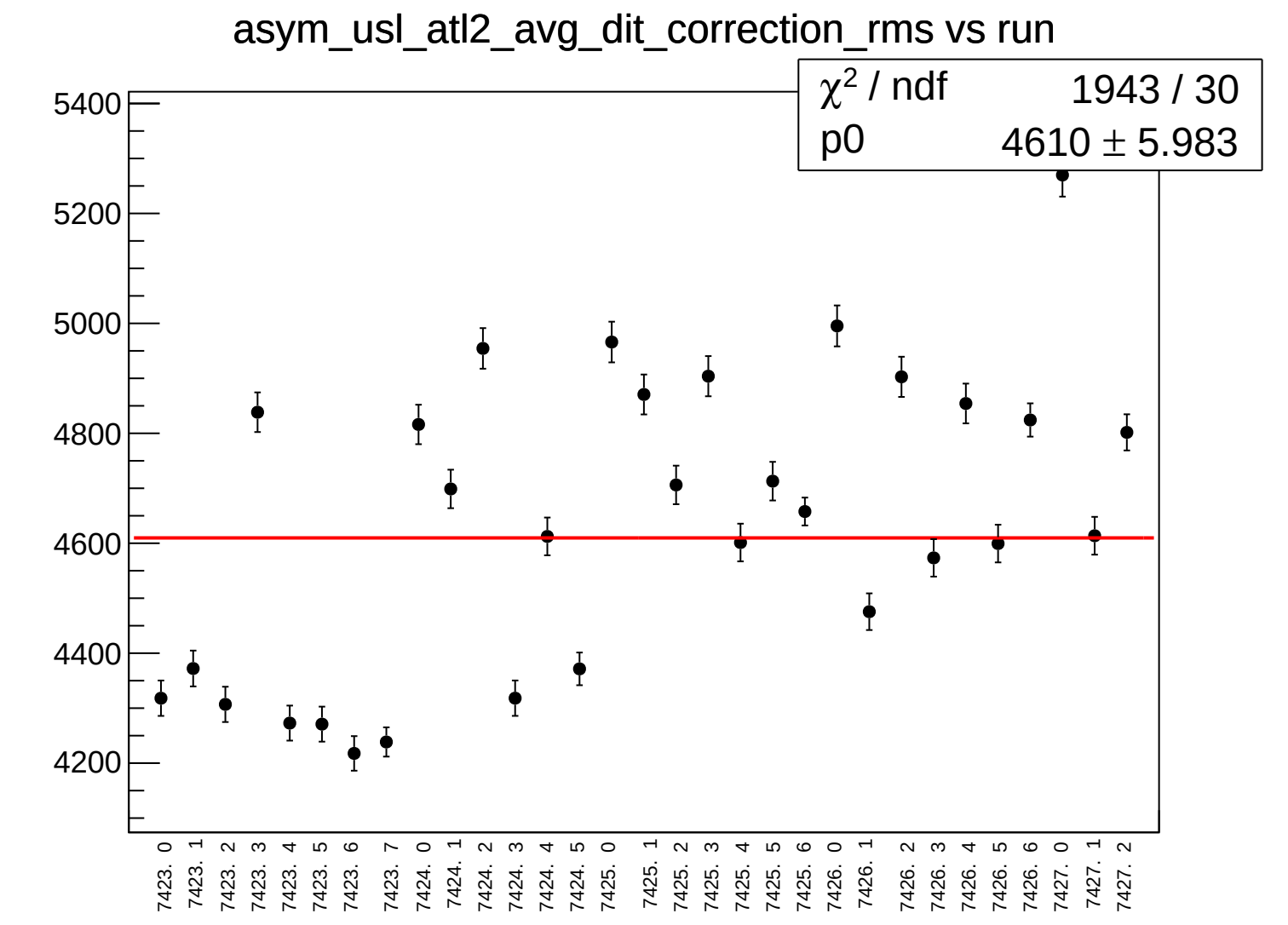

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 24.01 / 30
p0 2209 ± 2649
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −138.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

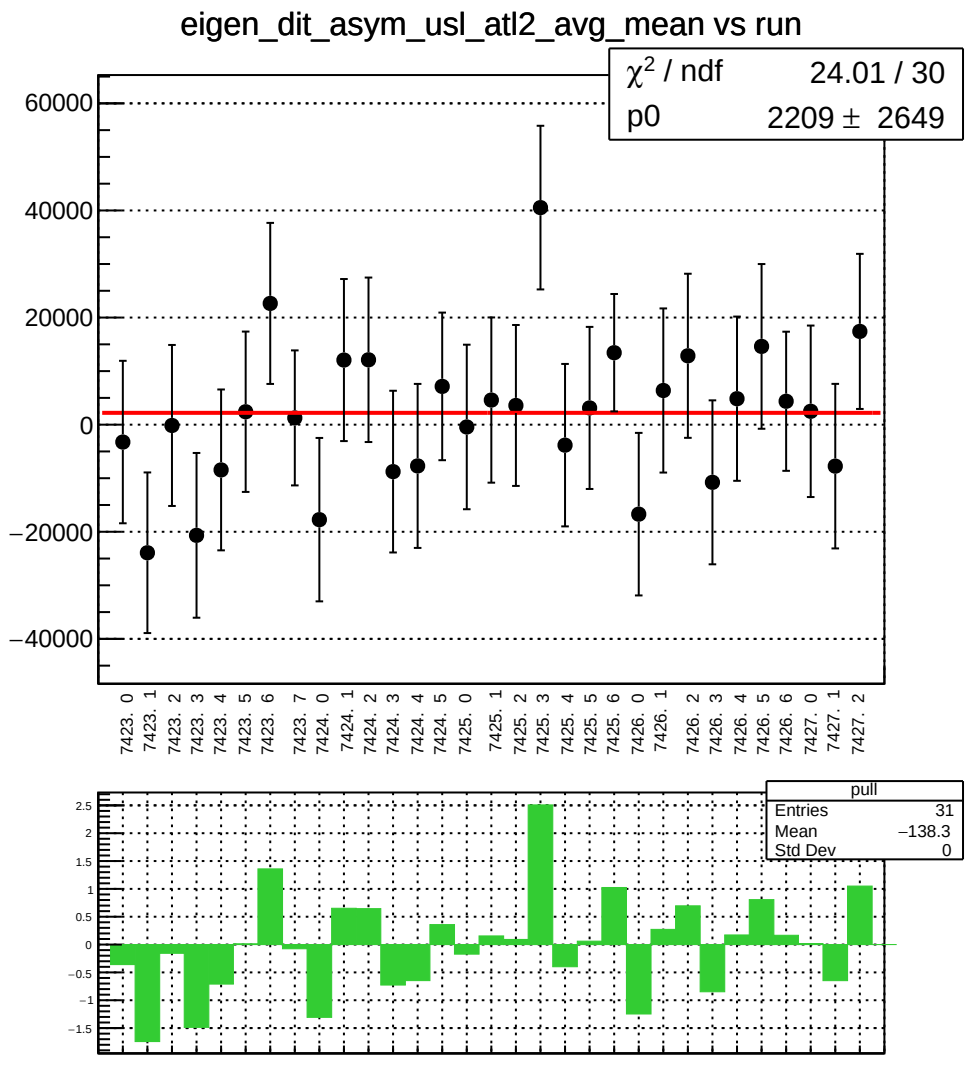

pull1D
Entries 31
Mean −0.01535
Std Dev 0.8799
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

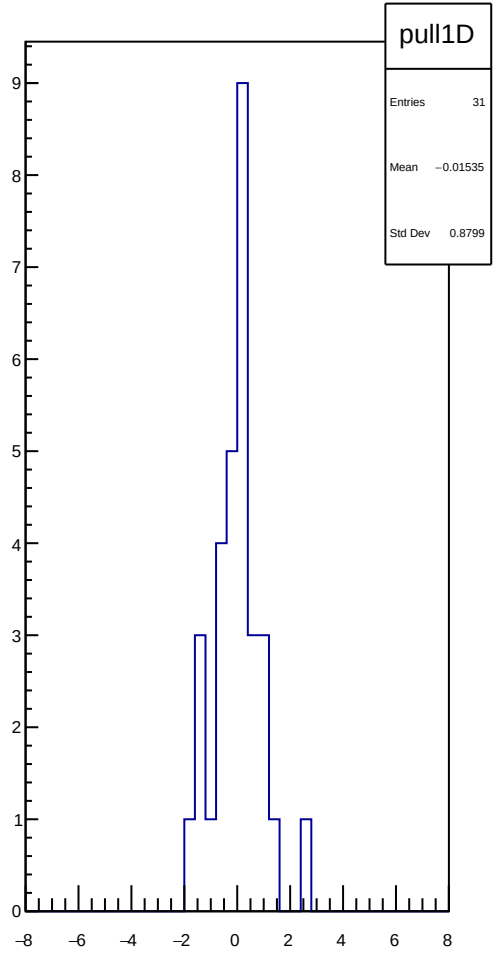

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 127.1 / 30
p0 1445 ± 1.873
1540
1520
1500
1480
1460
1440
1420
1400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

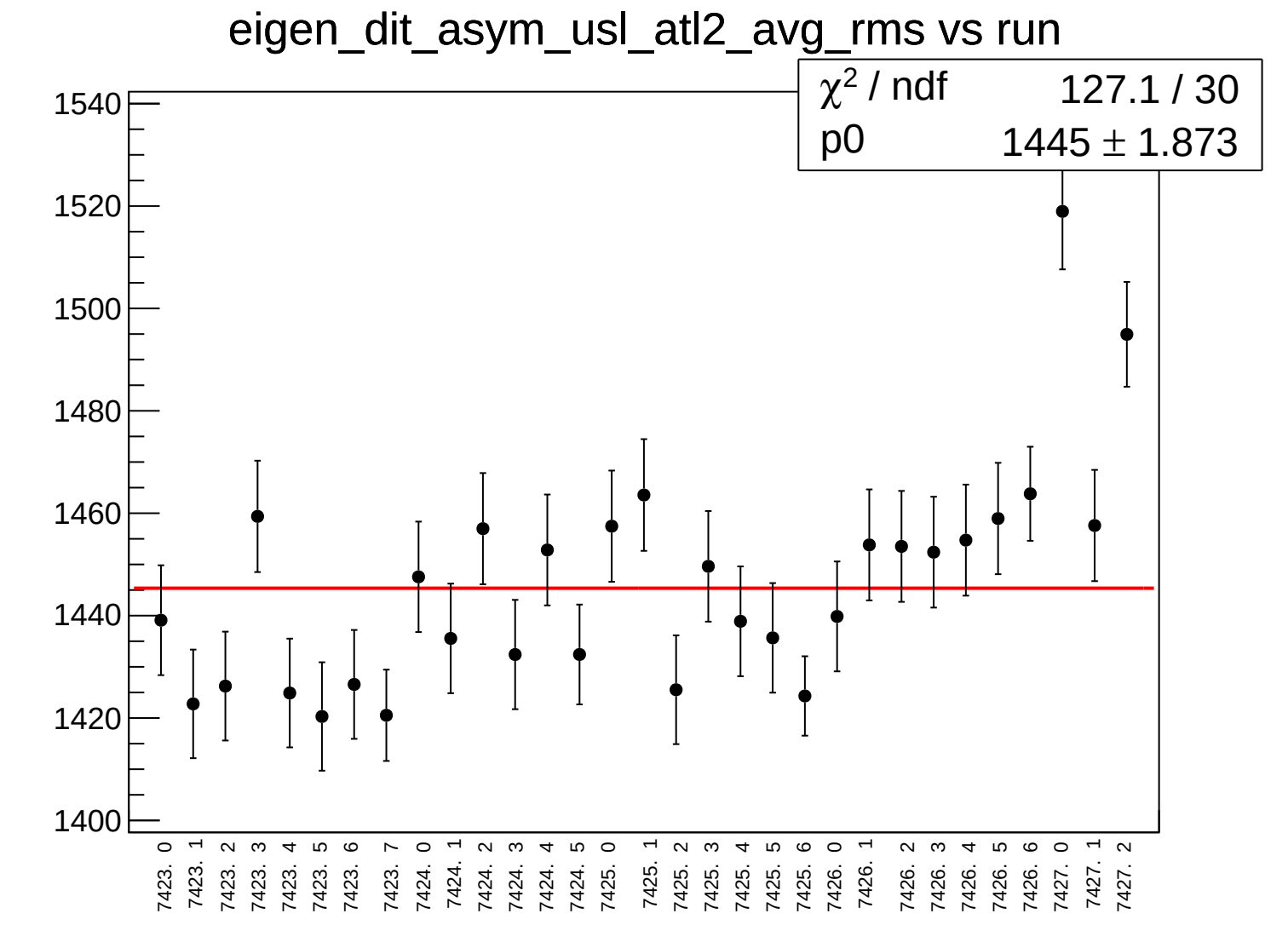

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 20.19 / 30
p0 6035 ± 8462
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 580.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

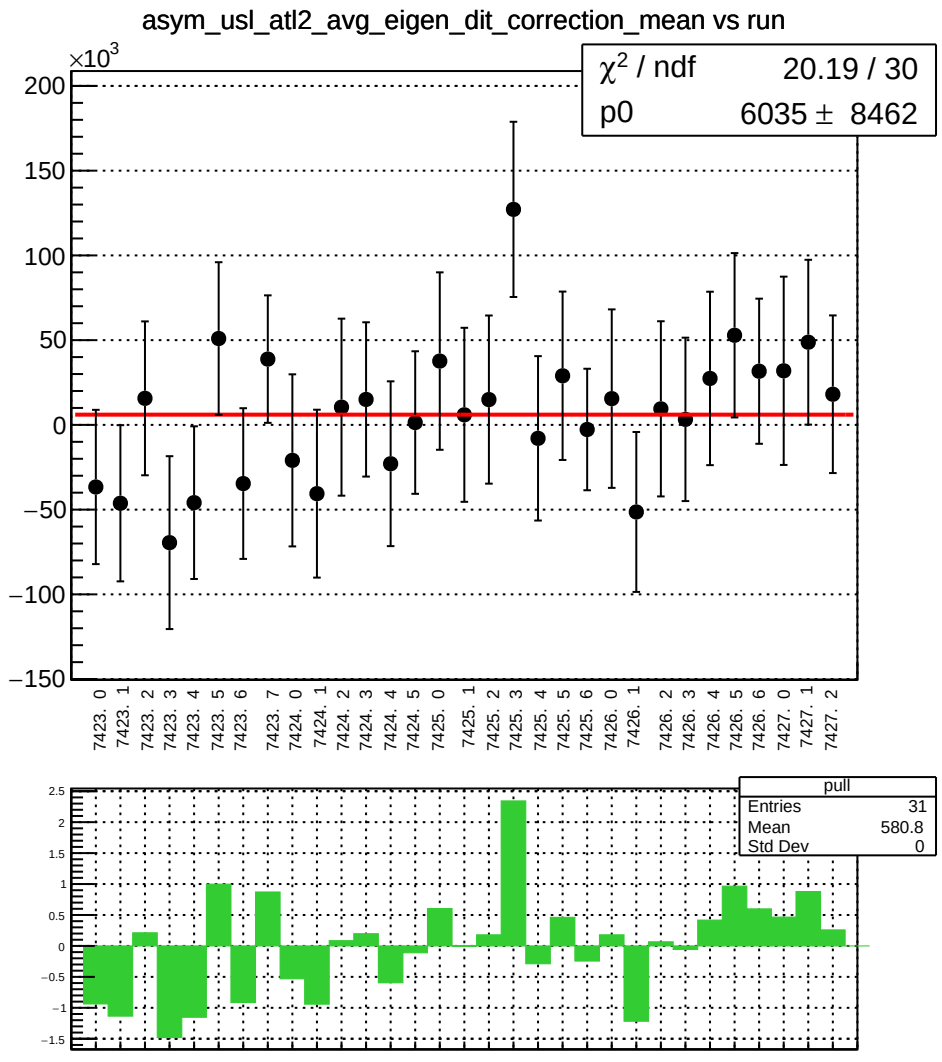

pull1D
Entries 31
Mean 0.005701
Std Dev 0.807
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

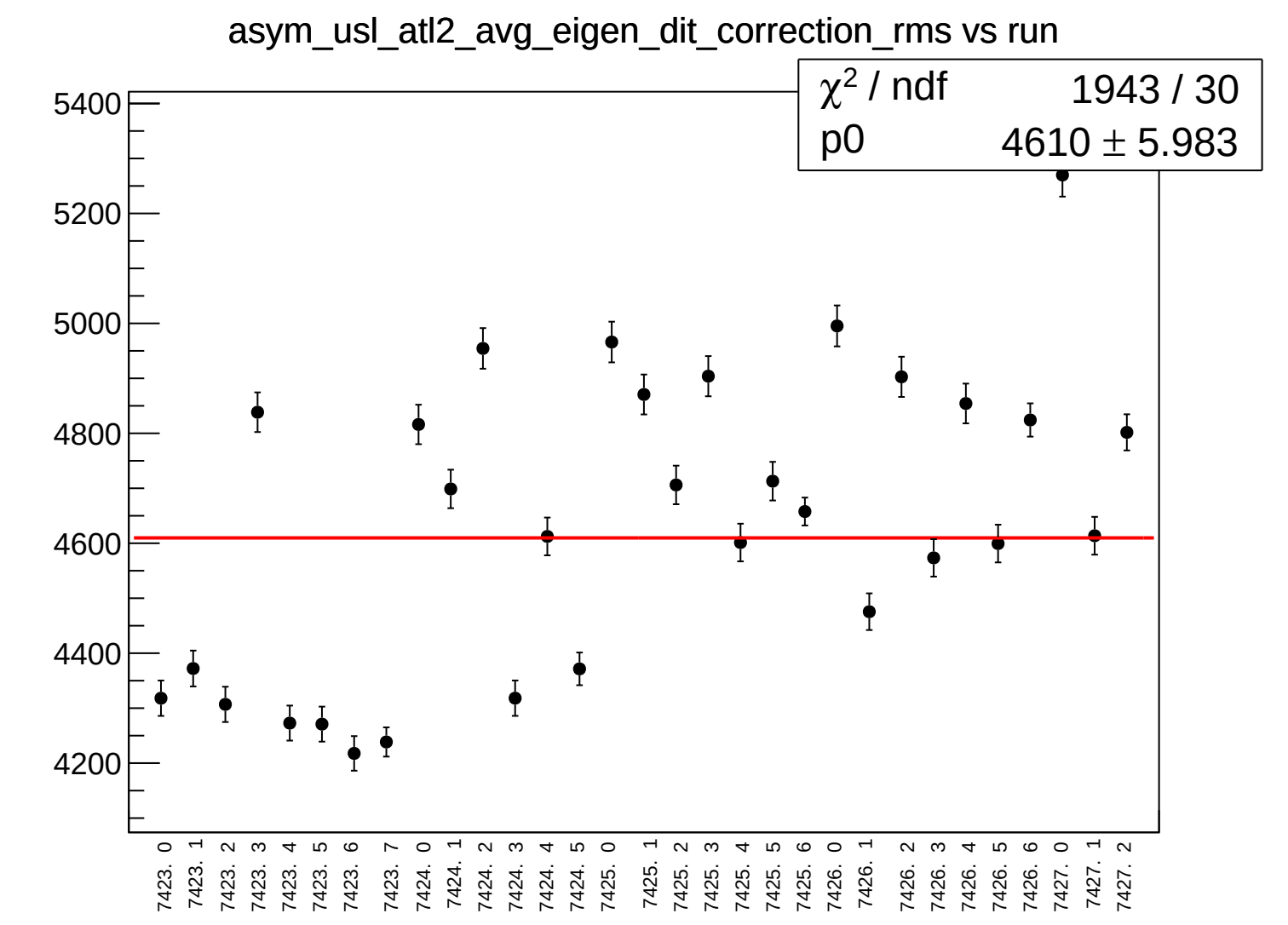

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1943 / 30
p0 4610 ± 5.983
5400
5200
5000
4800
4600
4400
4200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

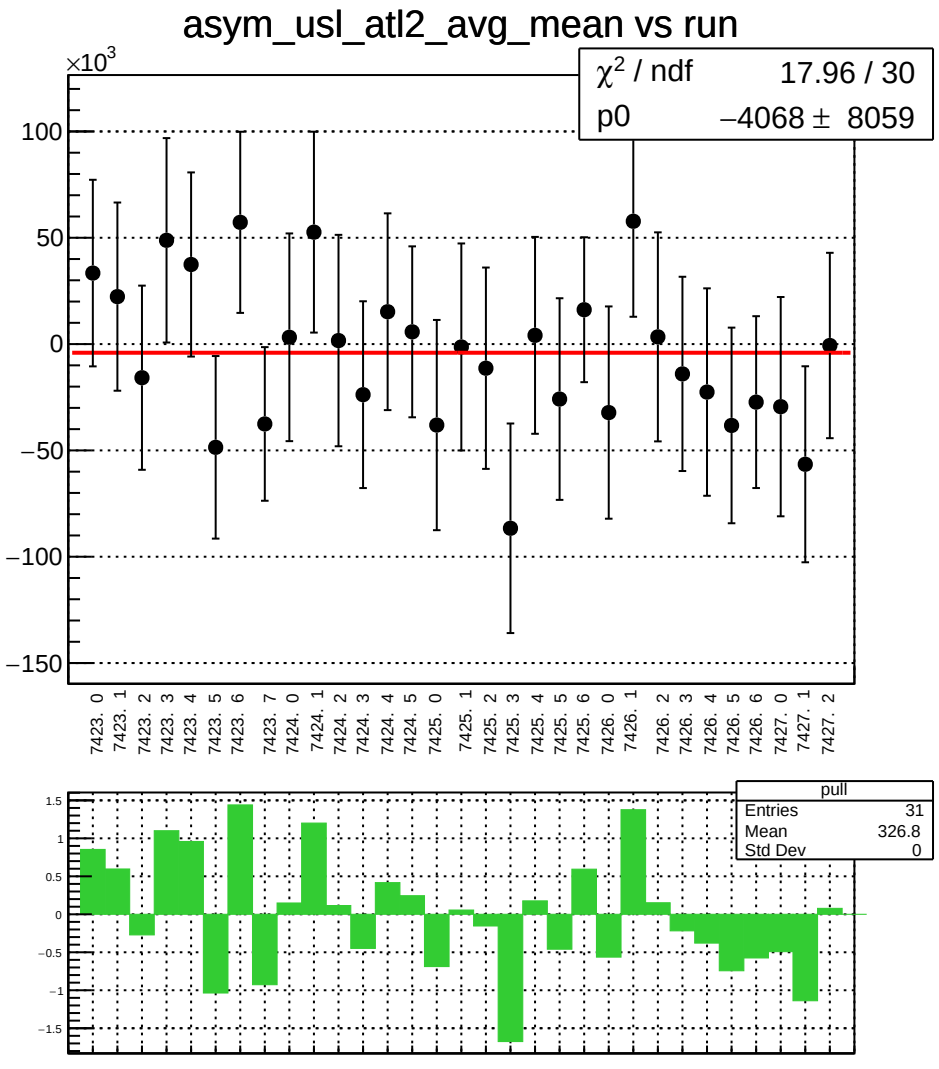

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 24.01 / 30
p0 2209 ± 2649
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −138.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

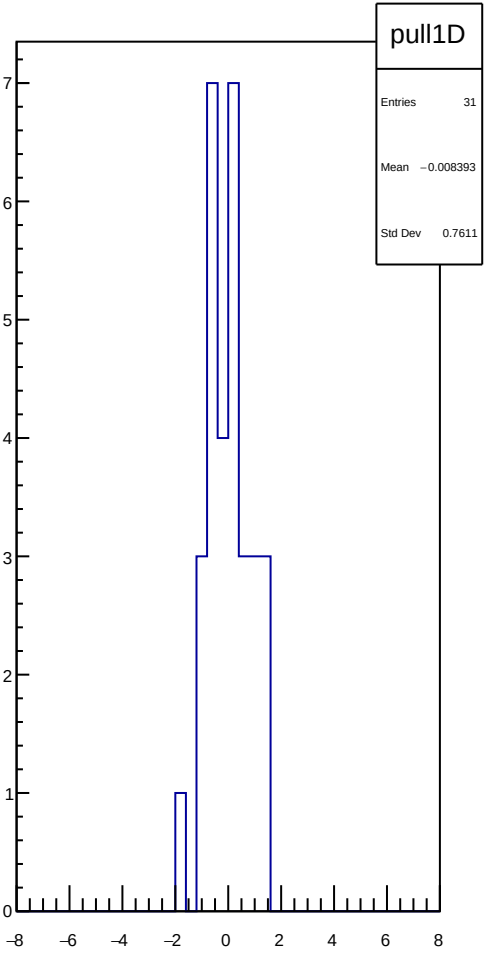

pull1D
Entries 31
Mean −0.01535
Std Dev 0.8799
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

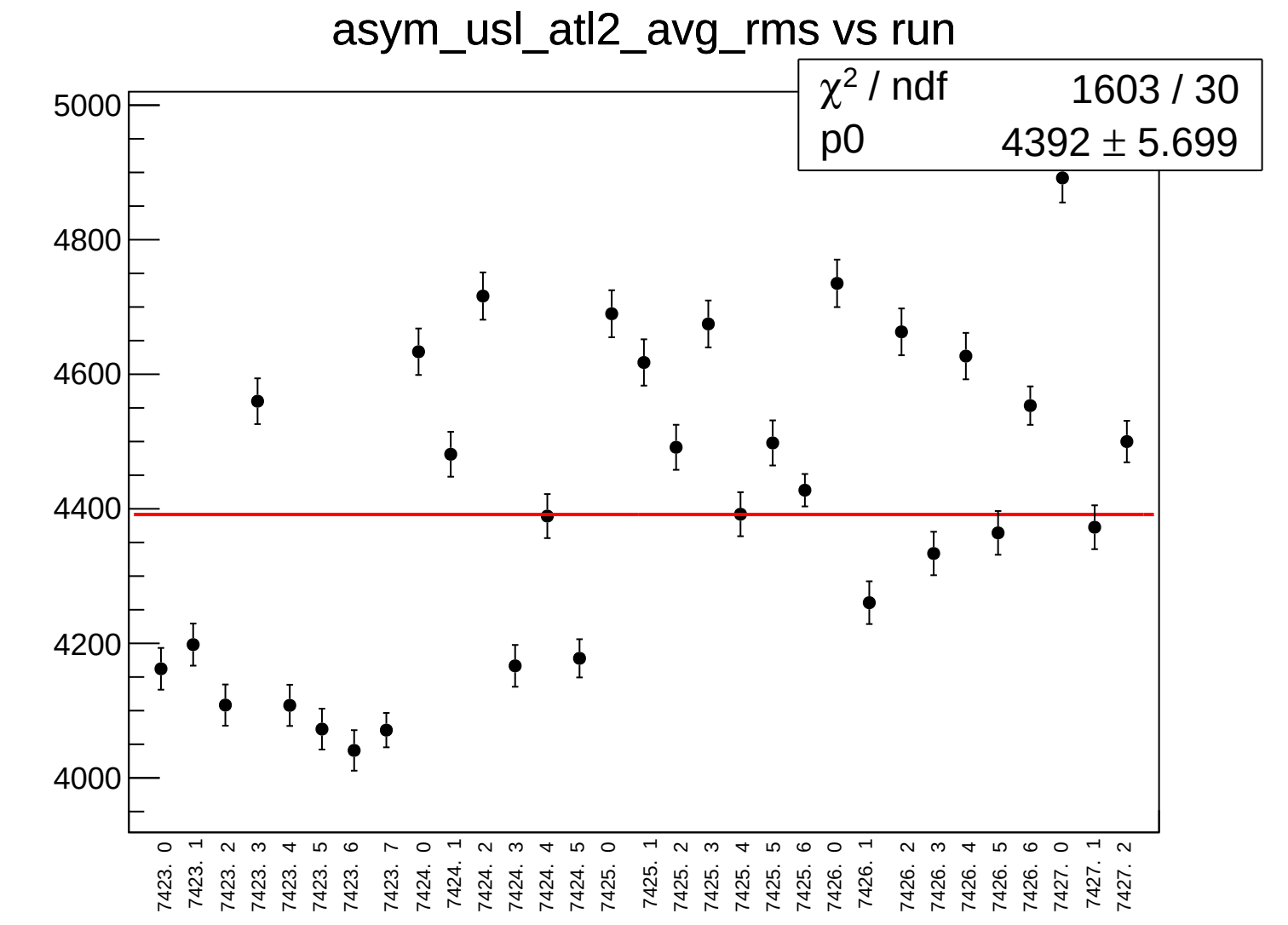

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 127.1 / 30
p0 1445 ± 1.873
1540
1520
1500
1480
1460
1440
1420
1400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

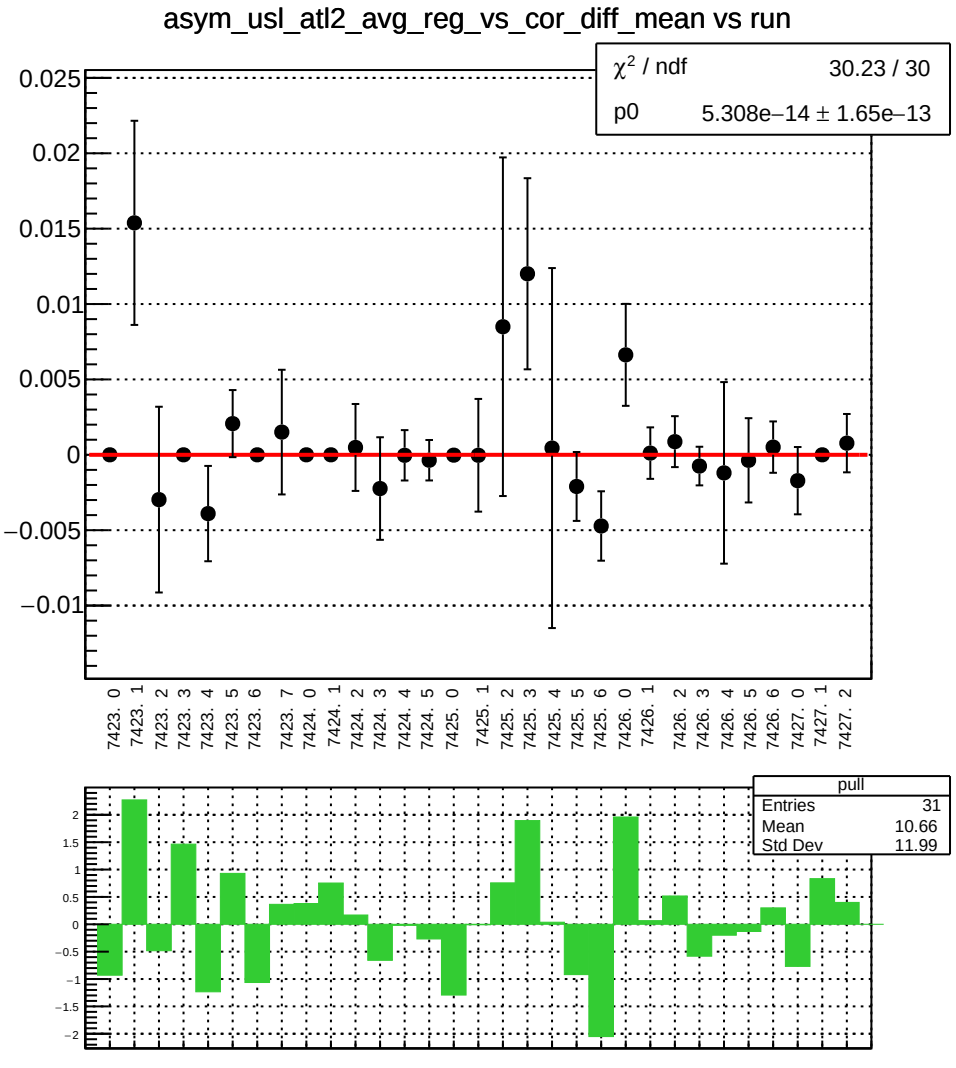

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 20.19 / 30
p0 6035 ± 8462
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 580.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.0057
Std Dev 0.807
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

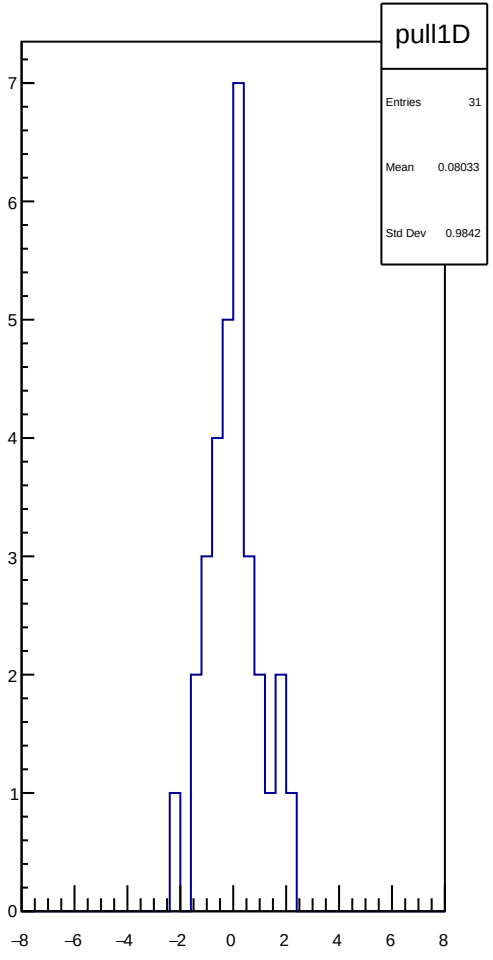

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1943 / 30
p0 4610 ± 5.983
5400
5200
5000
4800
4600
4400
4200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

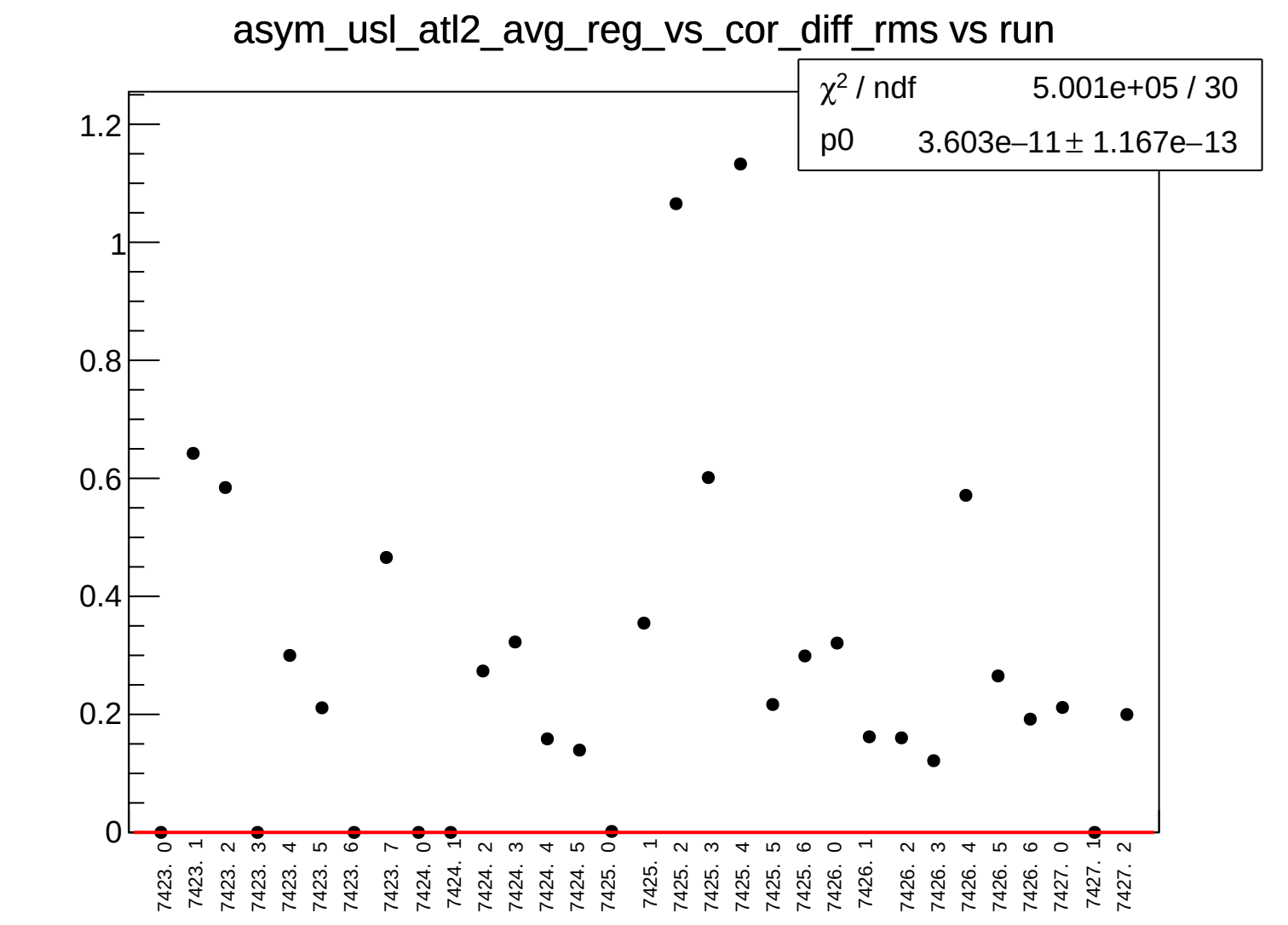

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 17.96 / 30
p0 −4068 ± 8059
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 326.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

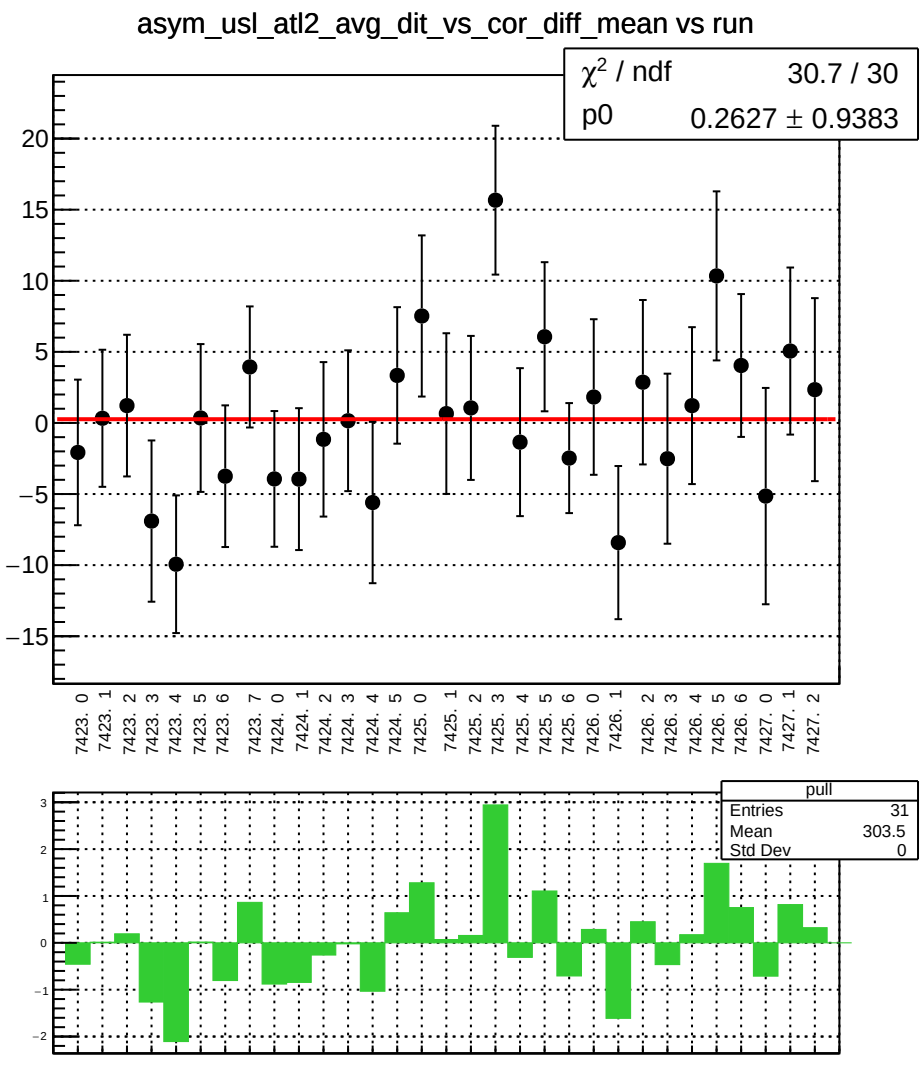

pull1D
Entries 31
Mean −0.008393
Std Dev 0.7611
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

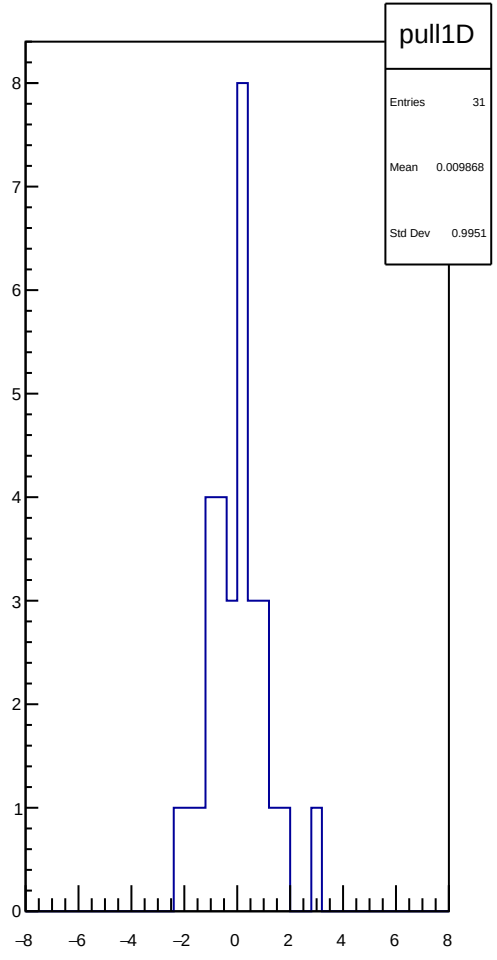

asym_usl_atl2_avg_rms vs run
χ² / ndf 1603 / 30
p0 4392 ± 5.699
5000
4800
4600
4400
4200
4000
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

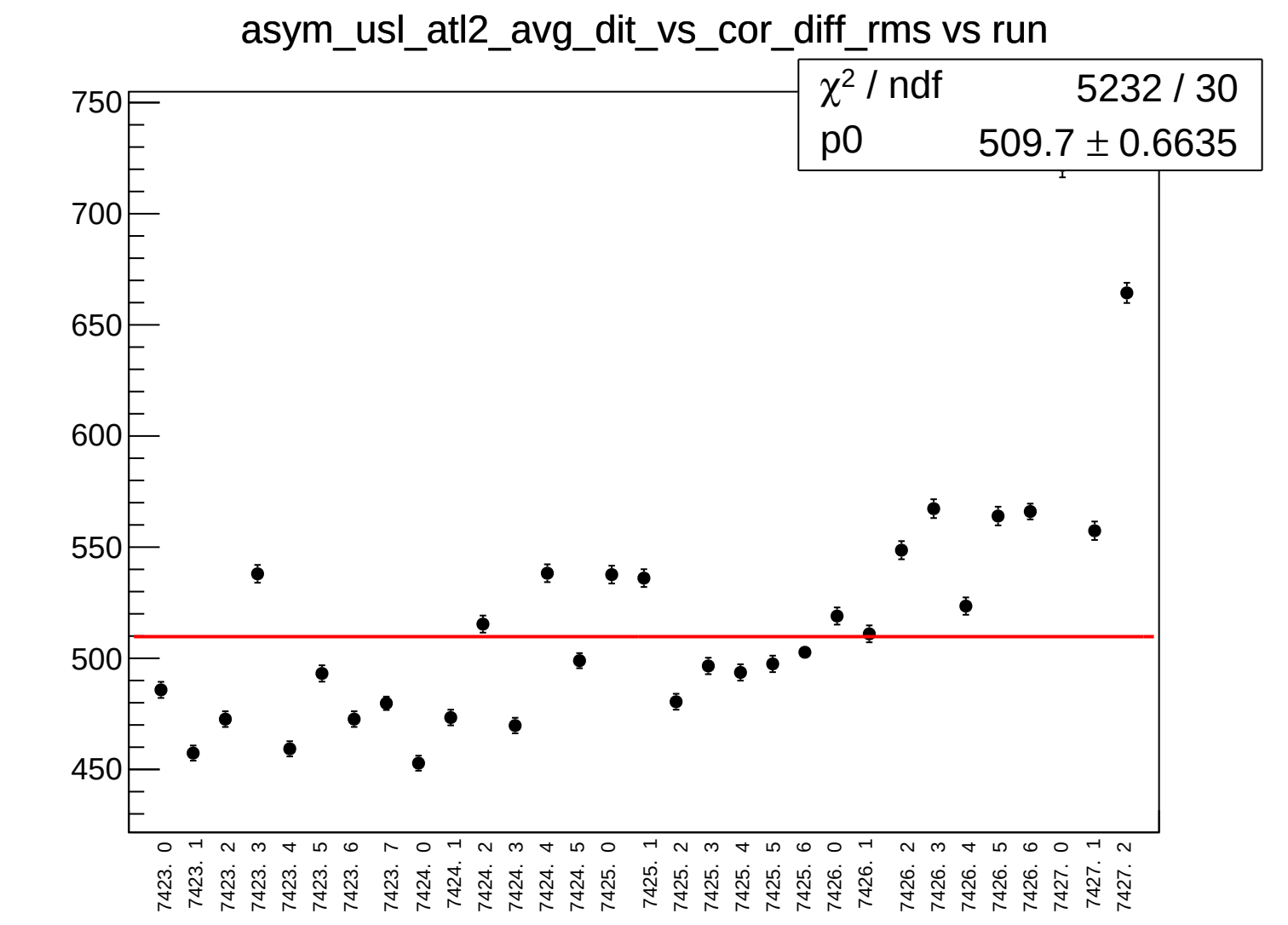

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 30.23 / 30
p0 5.308e−14 ± 1.65e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 10.66
Std Dev 11.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

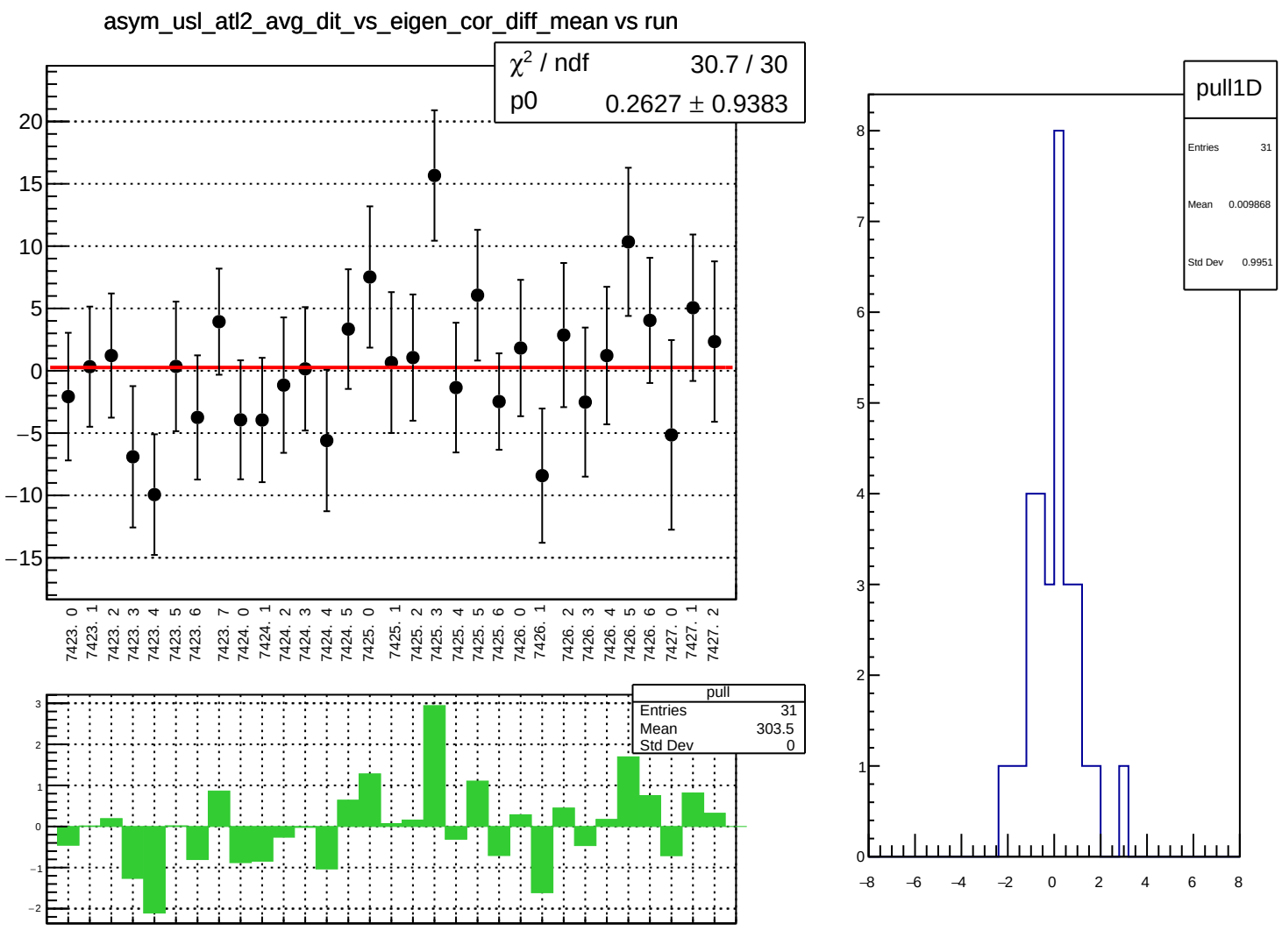

pull1D
Entries 31
Mean 0.08033
Std Dev 0.9842
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

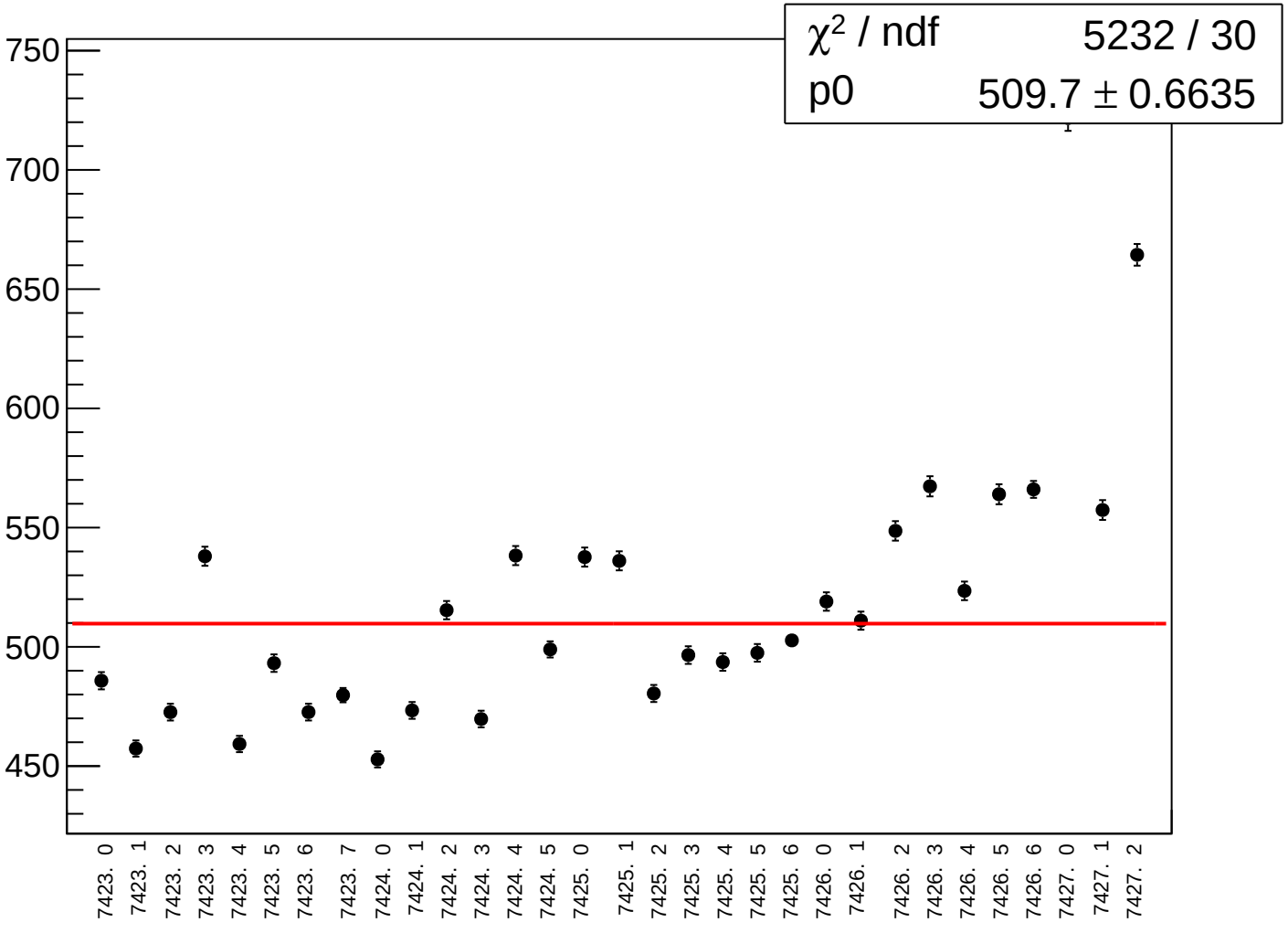

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.001e+05 / 30
p0 3.603e−11 ± 1.167e−13
1.2
1
0.8
0.6
0.4
0.2
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

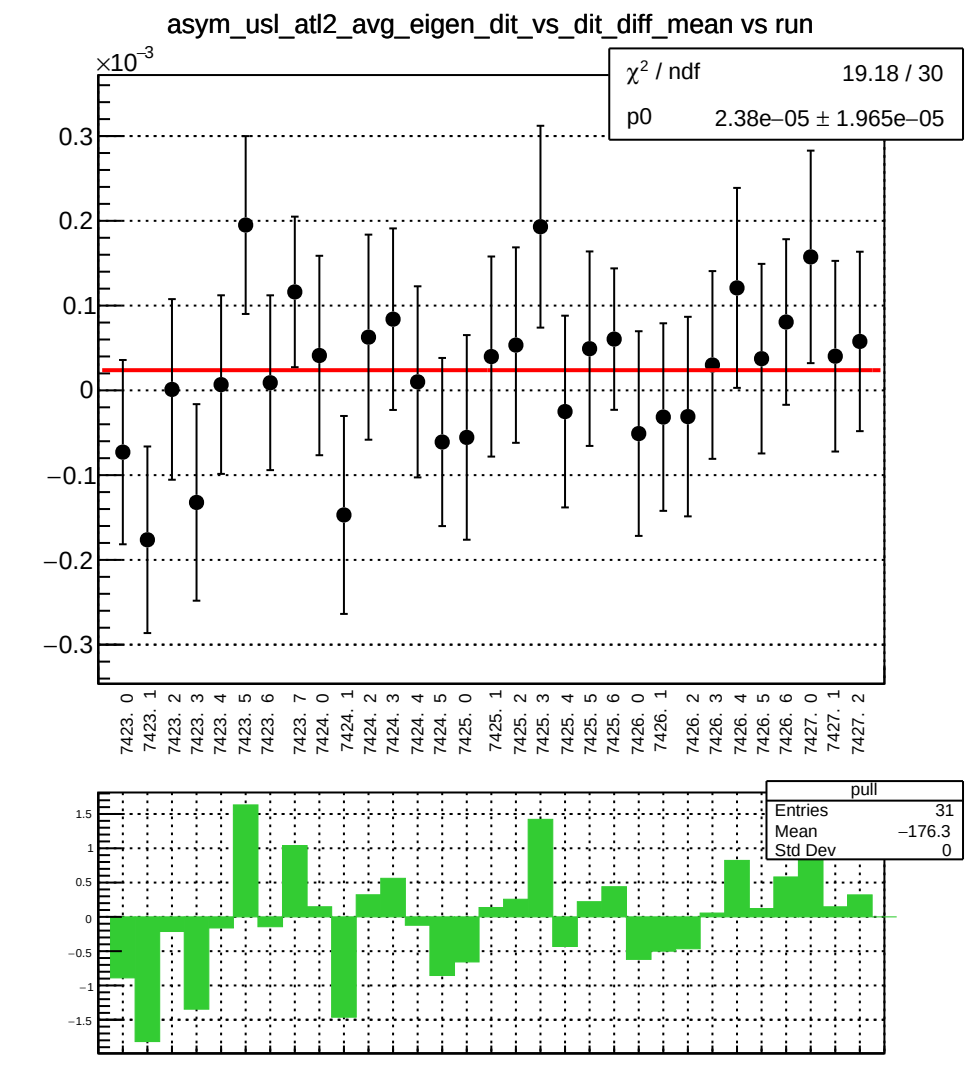

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 30.7 / 30
p0 0.2627 ± 0.9383
pull
Entries 31
Mean 303.5
Std Dev 0

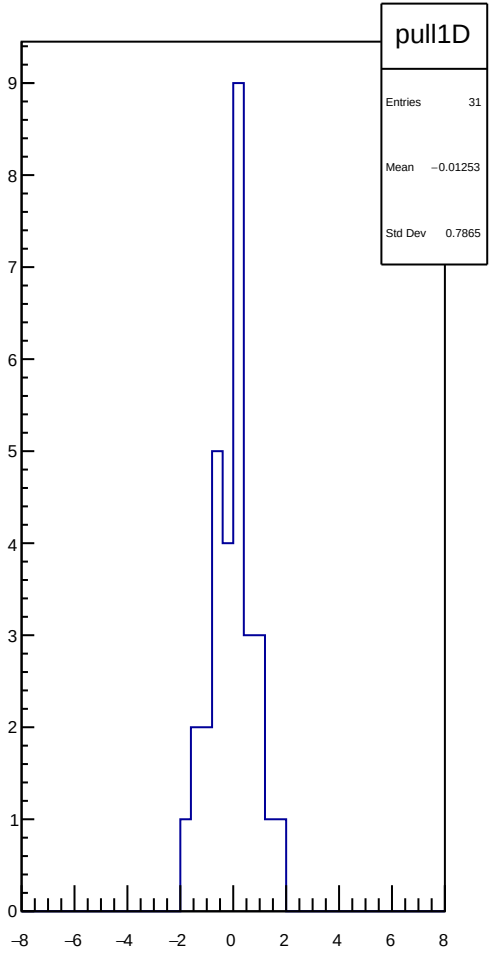

pull1D
Entries 31
Mean 0.009868
Std Dev 0.9951

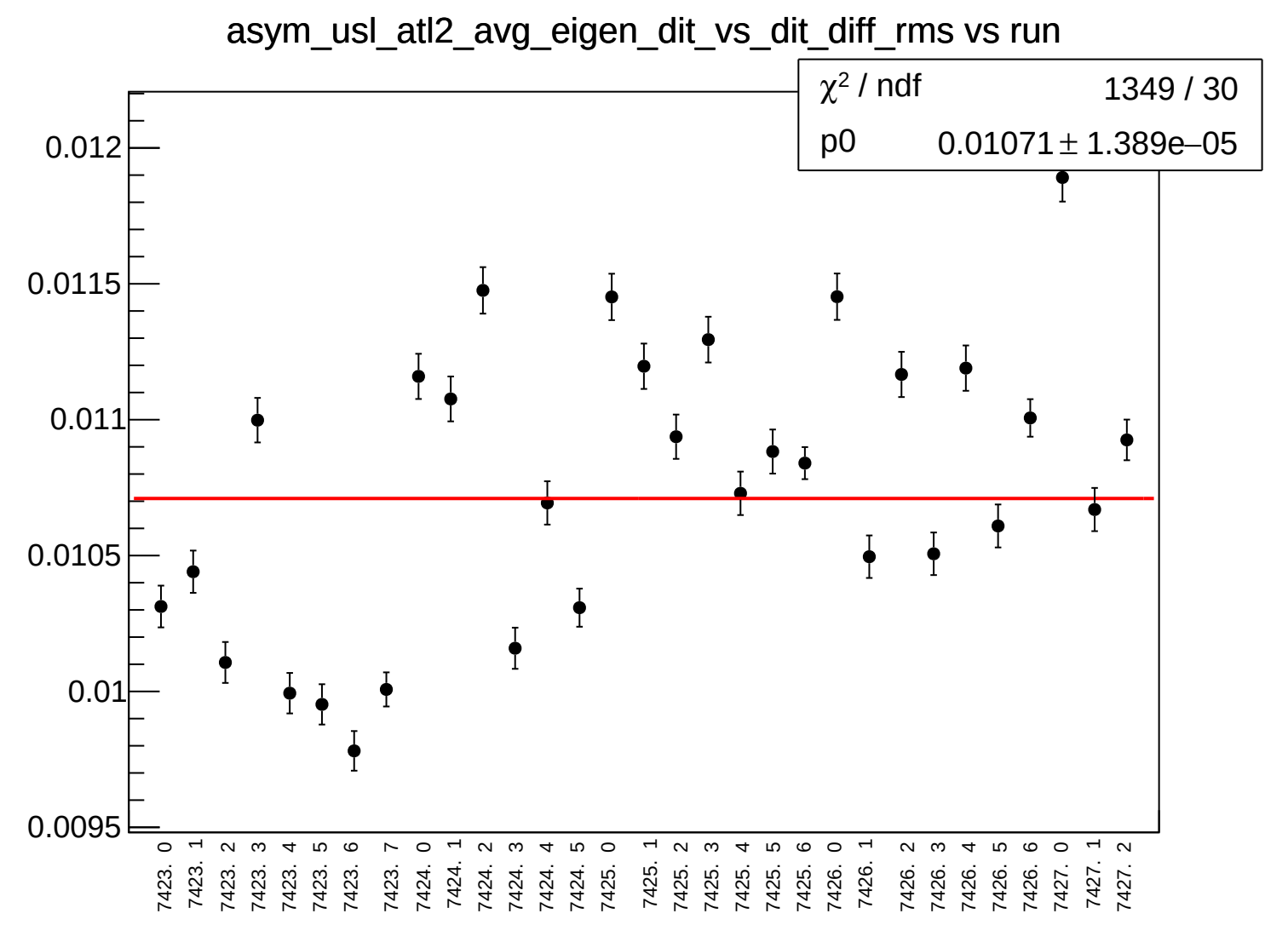

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5232 / 30
p0 509.7 ± 0.6635
750
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

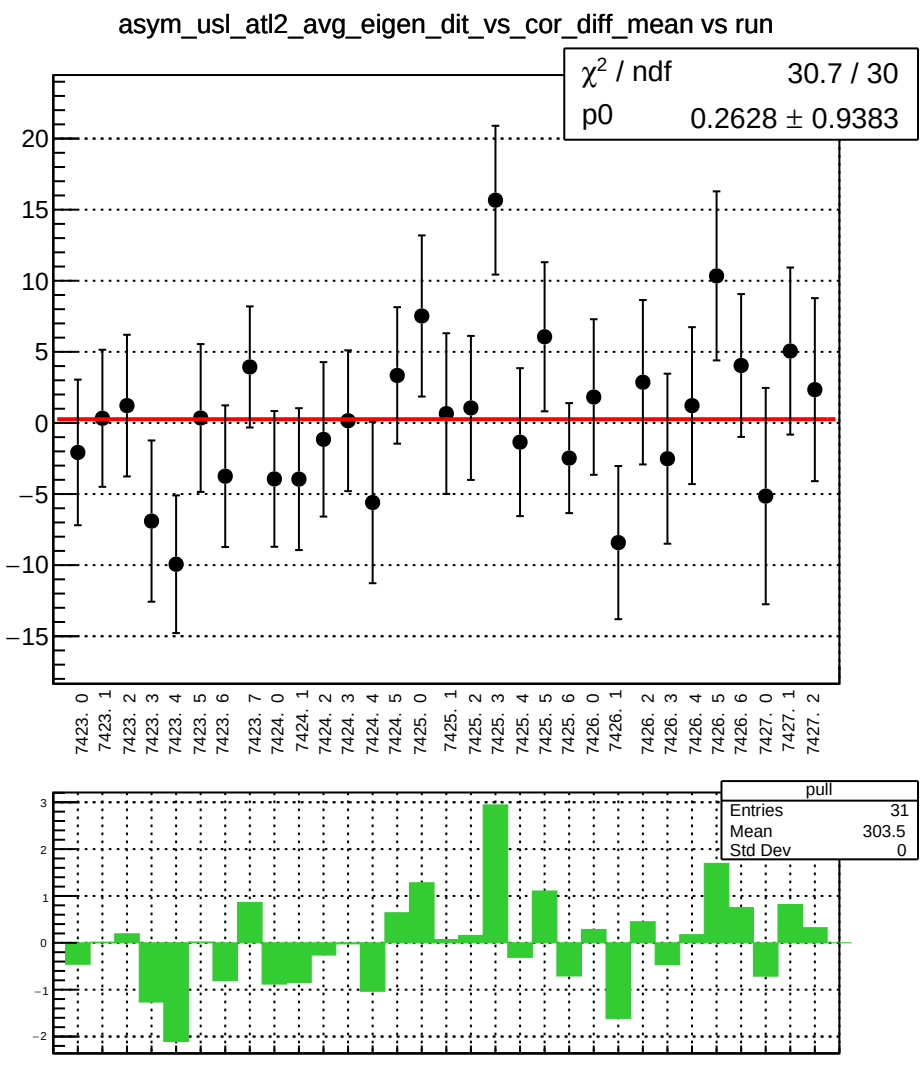

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.7 / 30
p0 0.2627 ± 0.9383
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 303.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.009868
Std Dev 0.9951
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

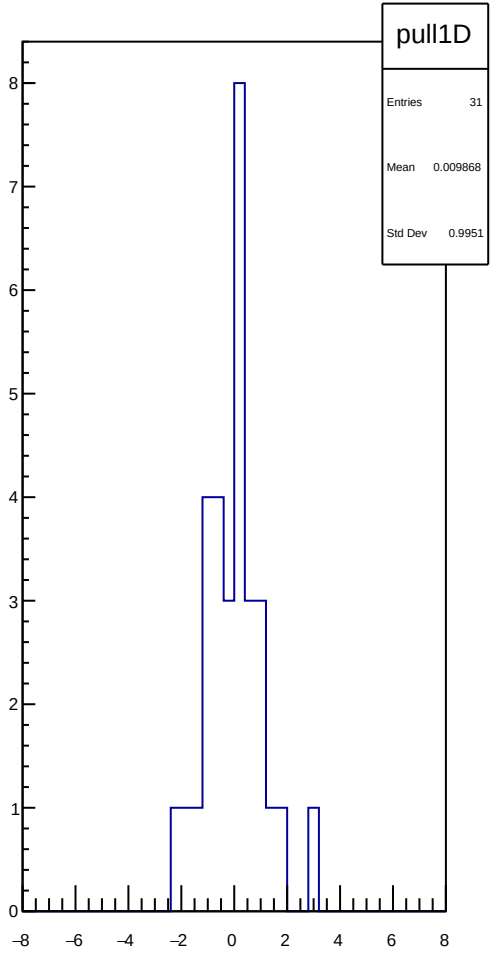

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5232 / 30
p0 509.7 ± 0.6635
750
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

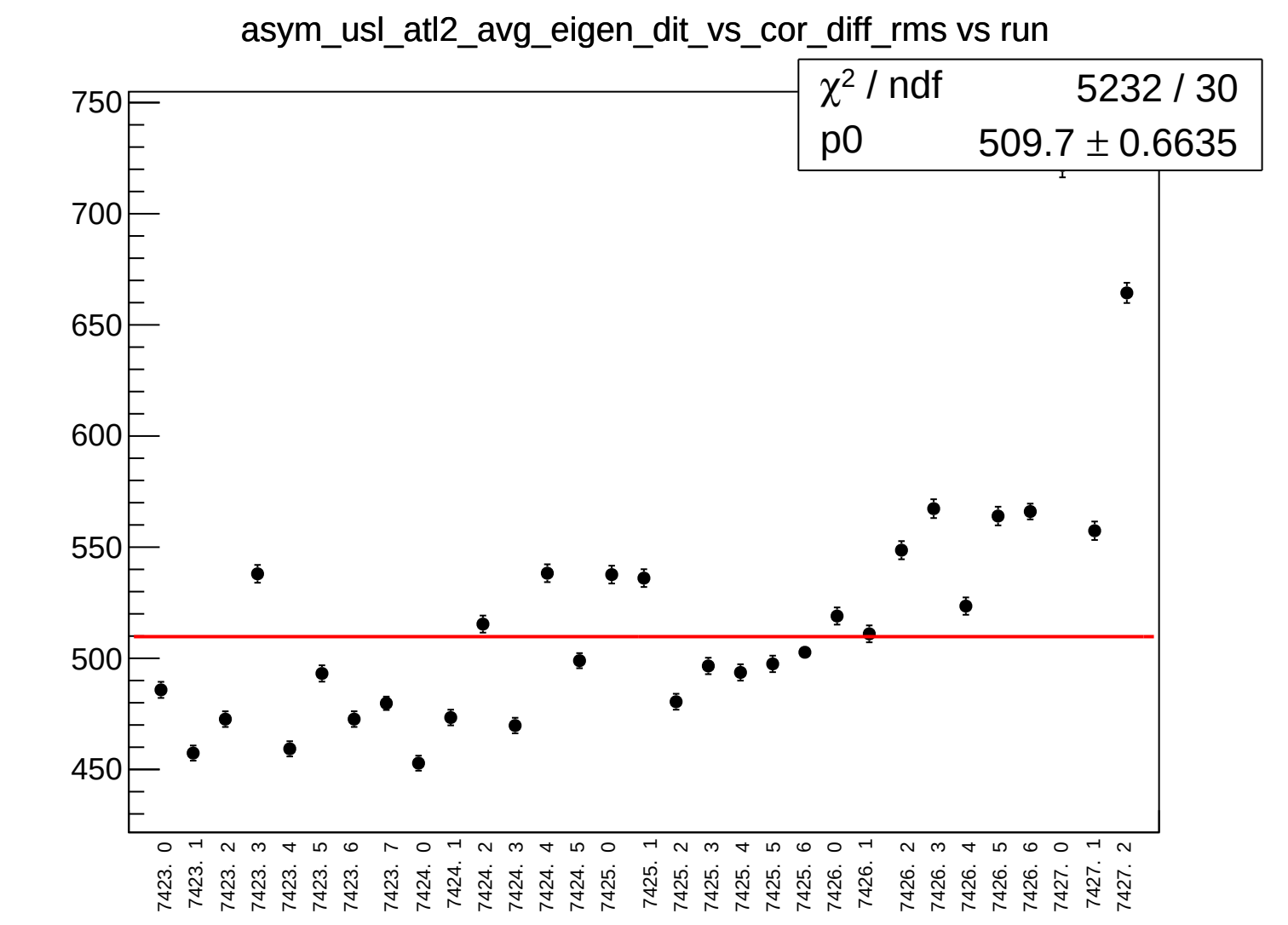

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.18 / 30
p0 2.38e−05 ± 1.965e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −176.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

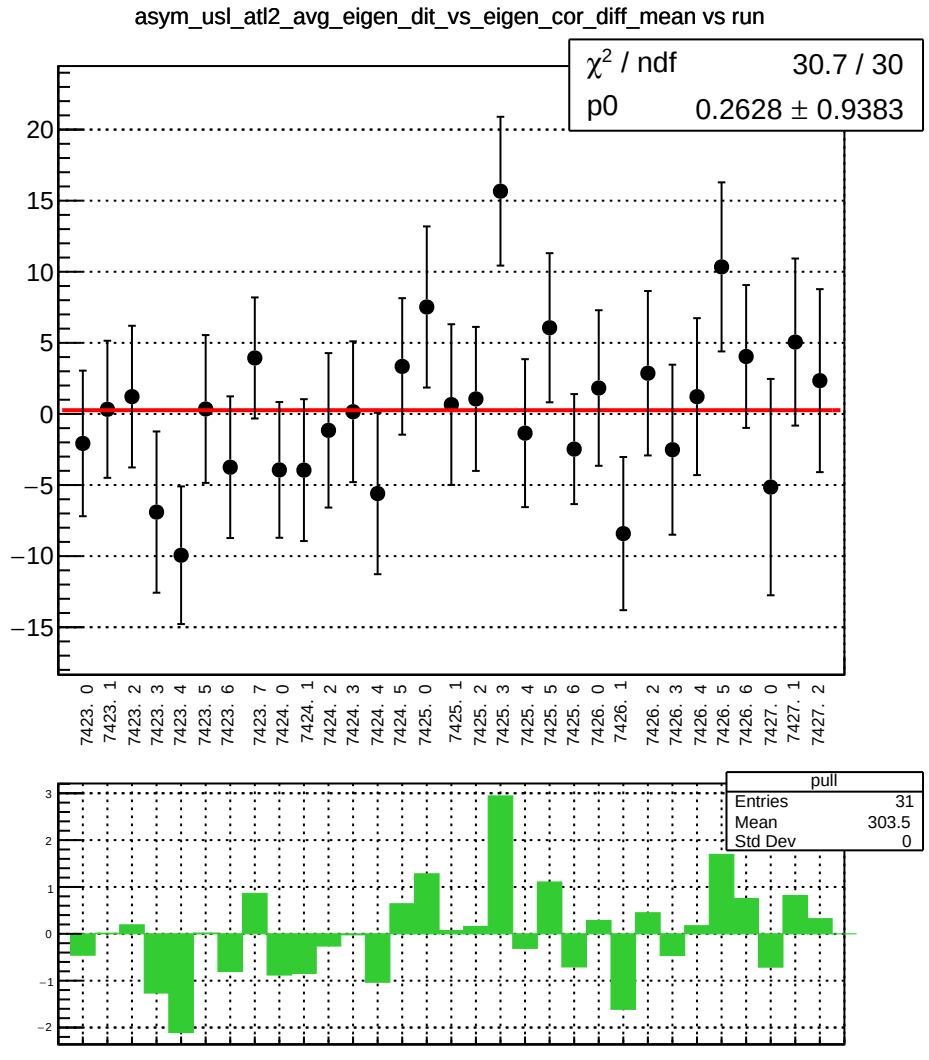

pull1D
Entries 31
Mean −0.01253
Std Dev 0.7865
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

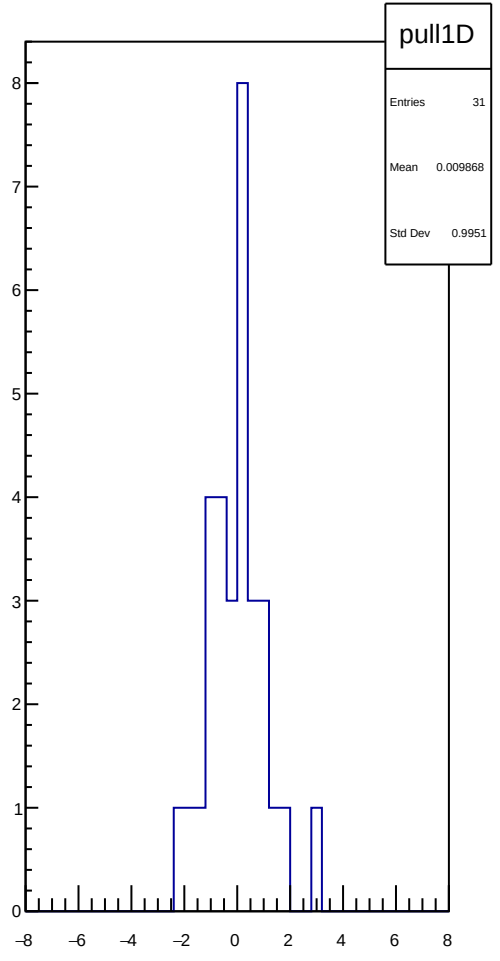

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1349 / 30
p0 0.01071 ± 1.389e–05
0.012
0.0115
0.011
0.0105
0.01
0.0095
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

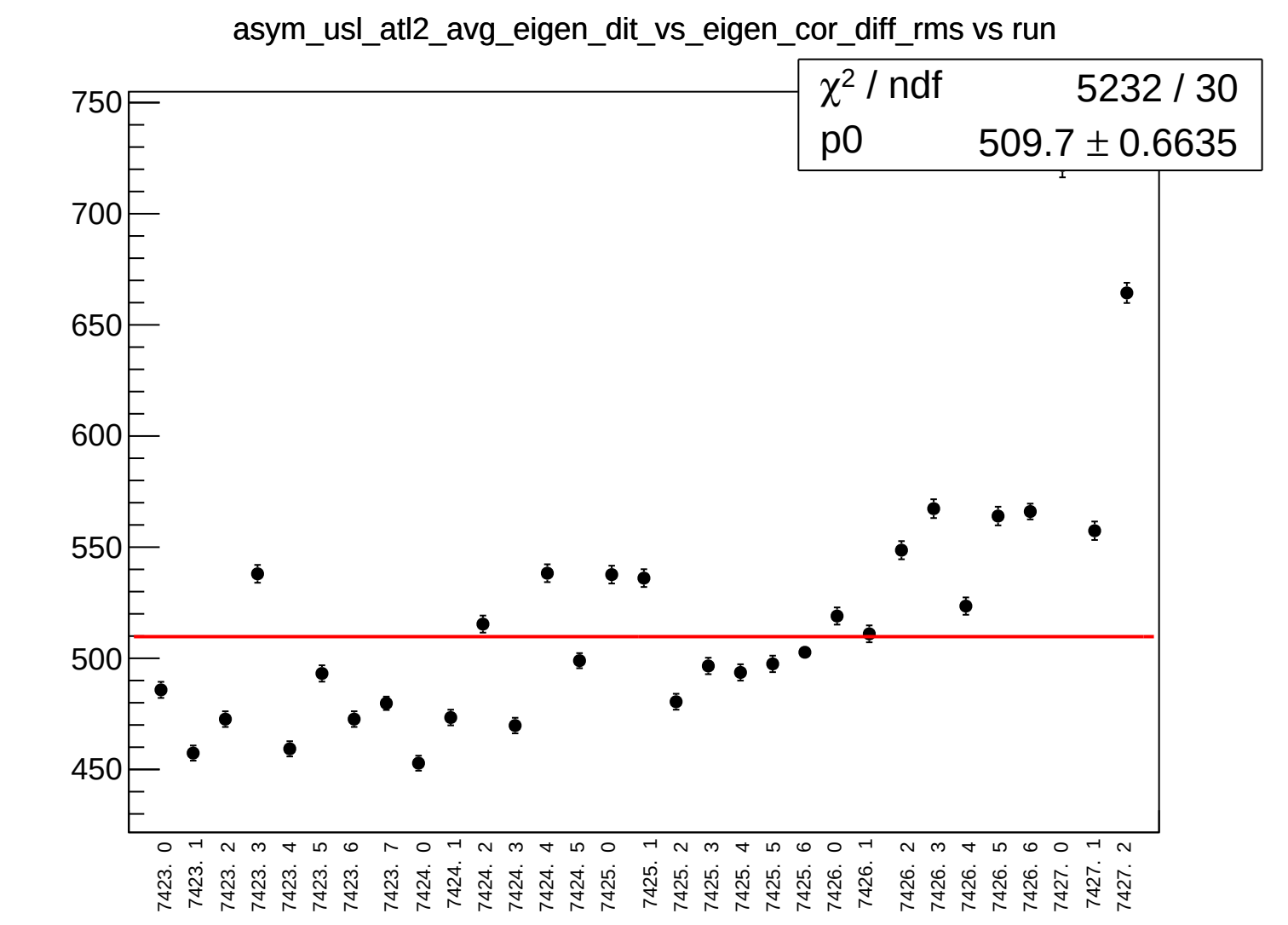

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.7 / 30
p0 0.2628 ± 0.9383
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 303.5
Std Dev 0
3
2
1
0
−1
−2

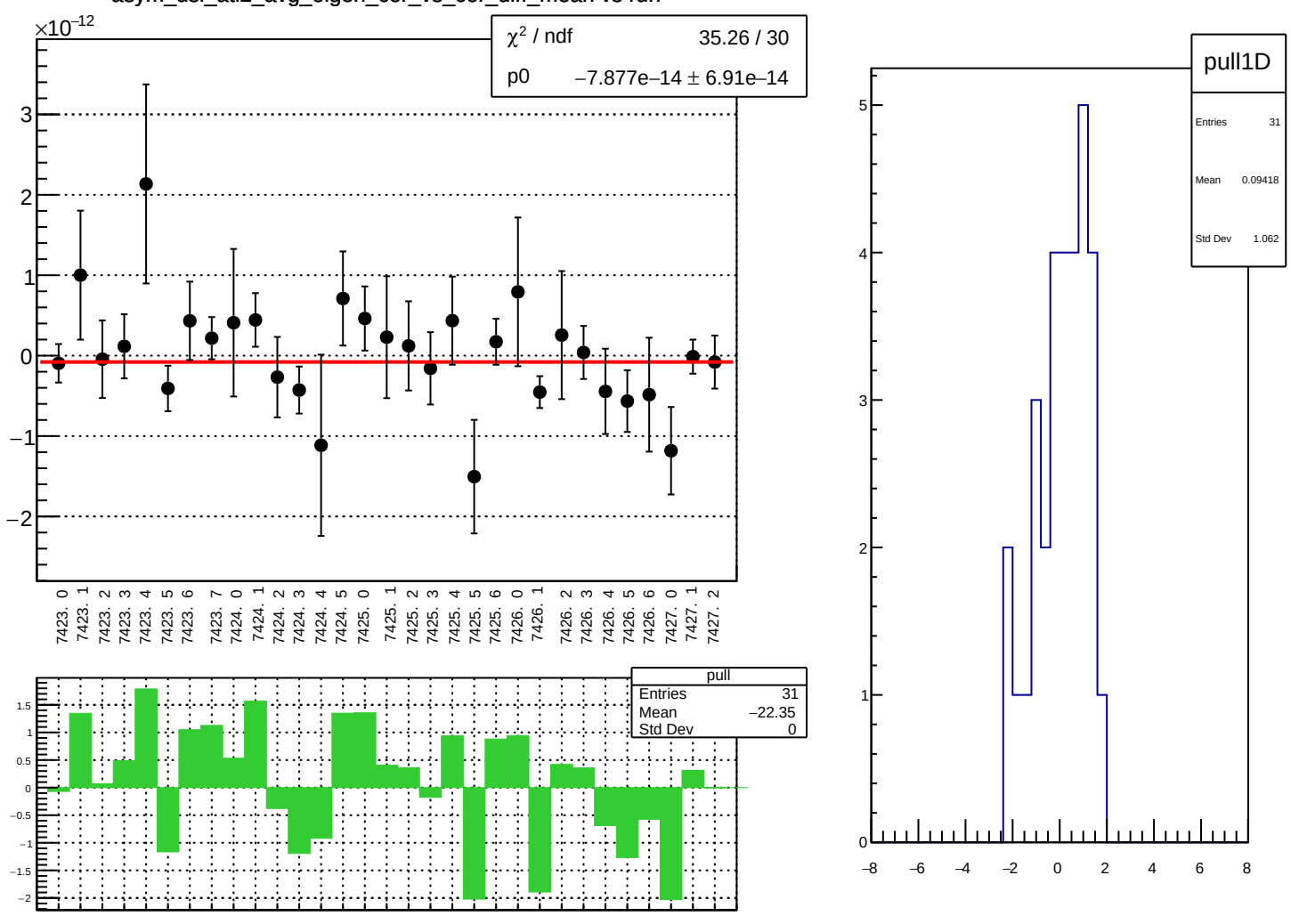

pull1D
Entries 31
Mean 0.009868
Std Dev 0.9951
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

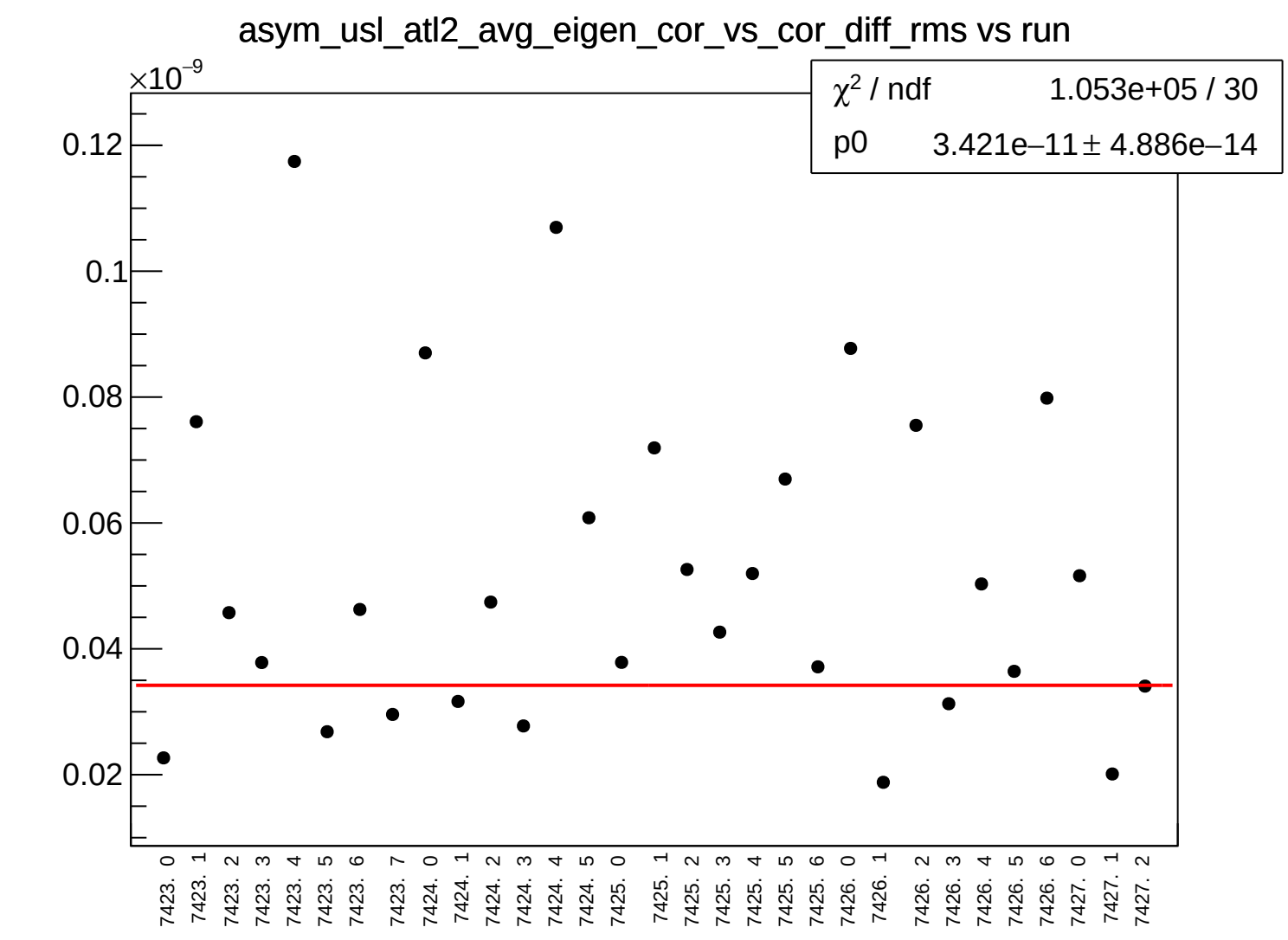

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5232 / 30
p0 509.7 ± 0.6635
750
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

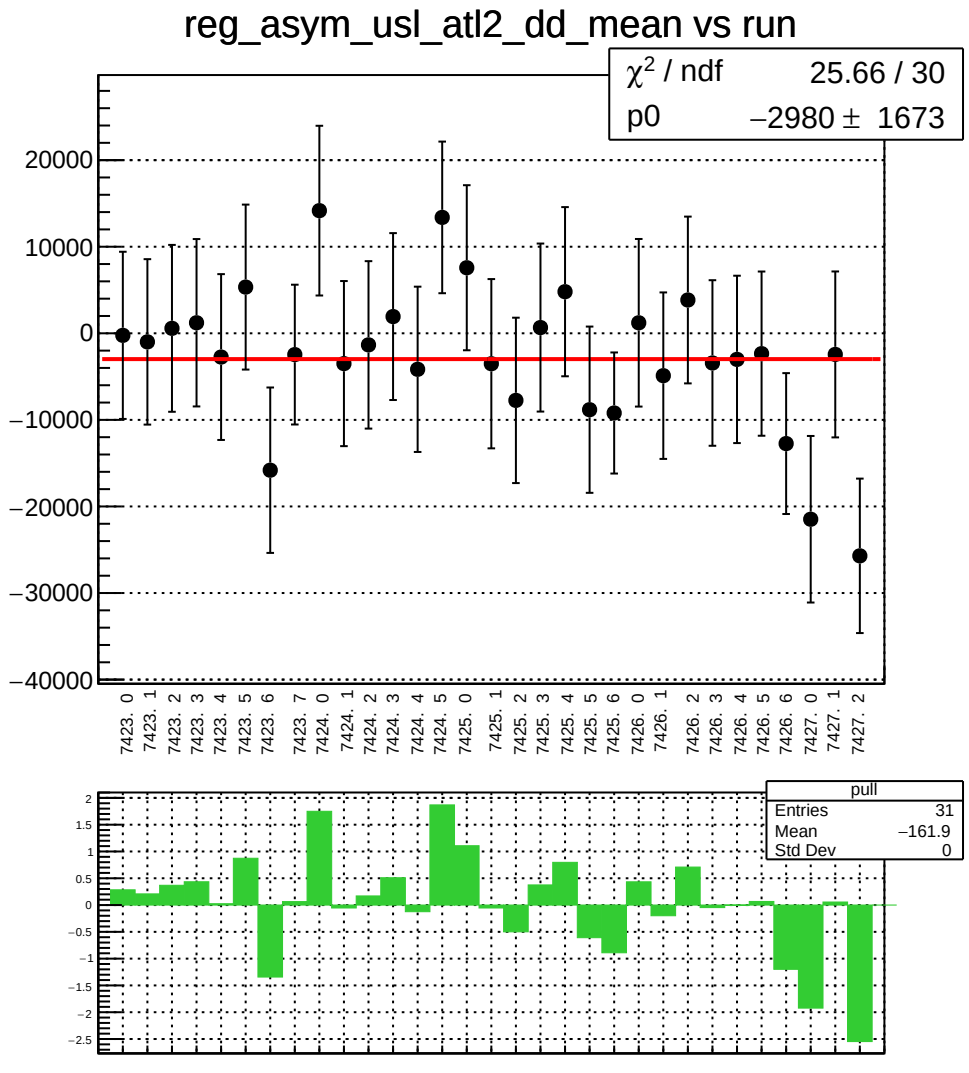

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.7 / 30
p0 0.2628 ± 0.9383
pull
Entries 31
Mean 303.5
Std Dev 0

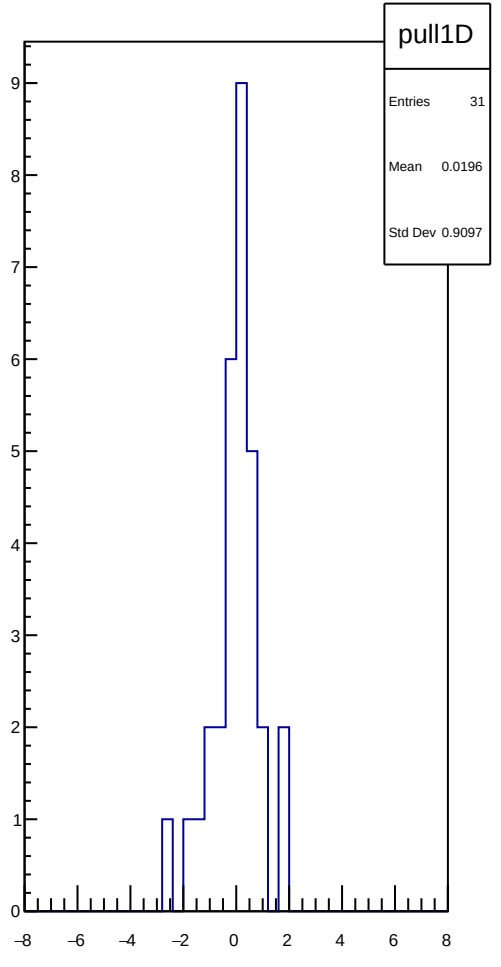

pull1D
Entries 31
Mean 0.009868
Std Dev 0.9951

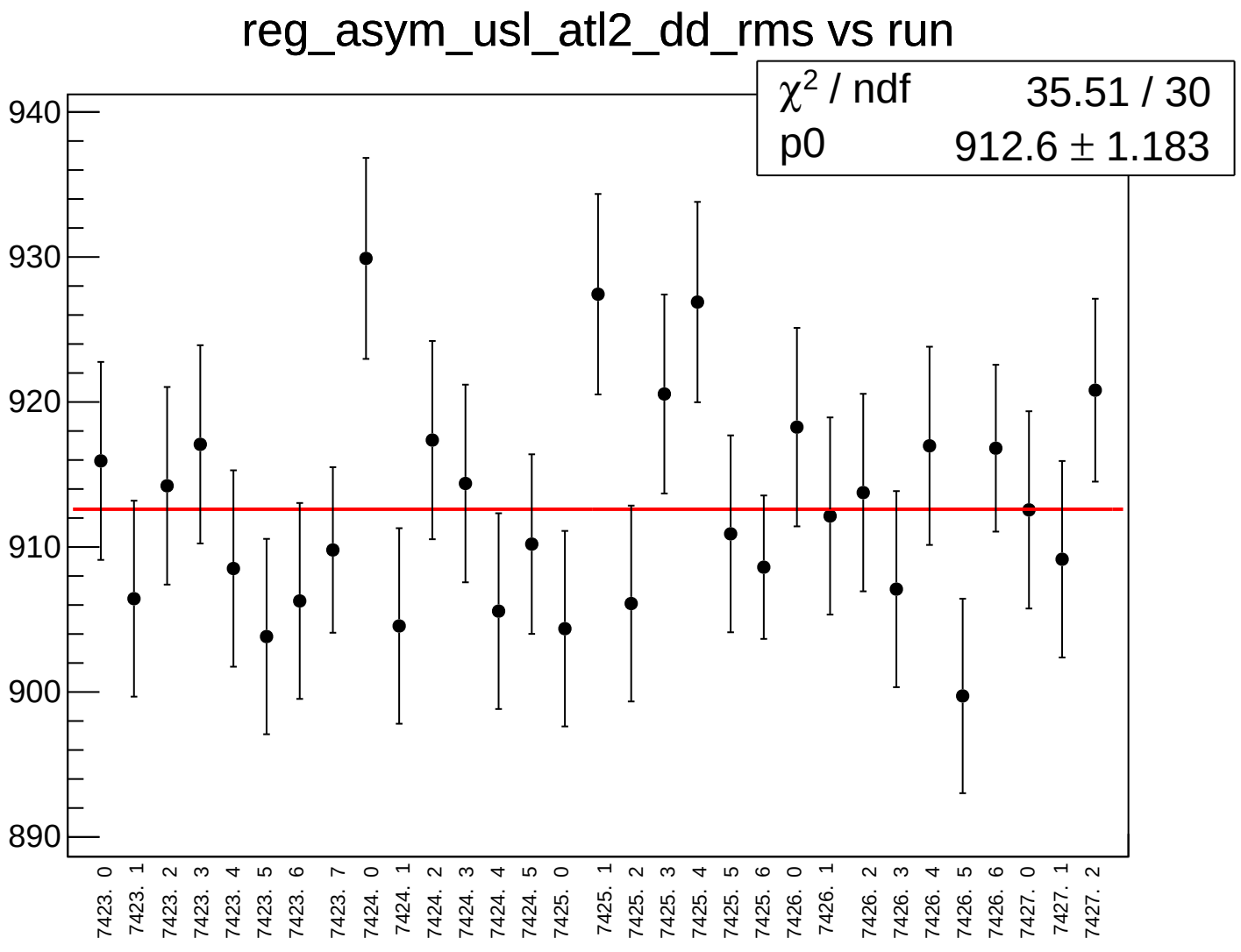

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5232 / 30
p0 509.7 ± 0.6635
750
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

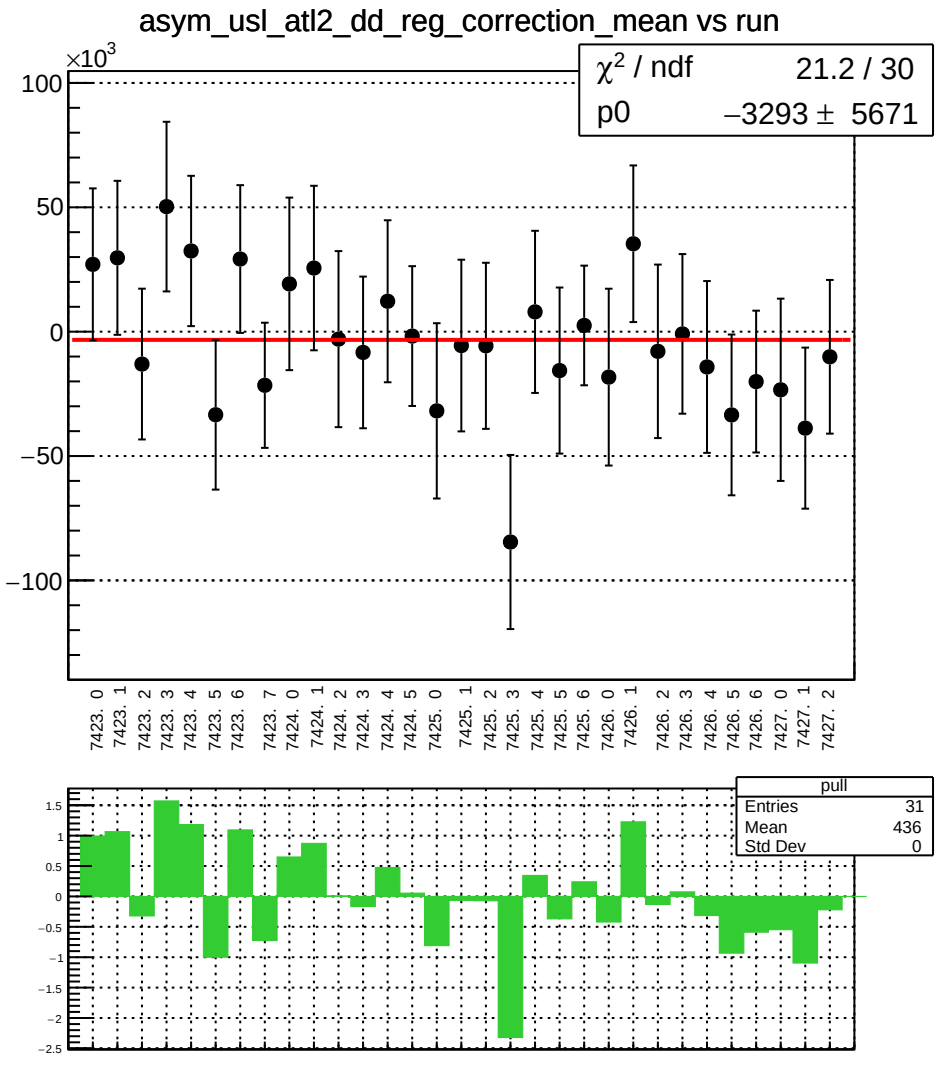

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.26 / 30
p0 −7.877e−14 ± 6.91e−14
3
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −22.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.09418
Std Dev 1.062
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

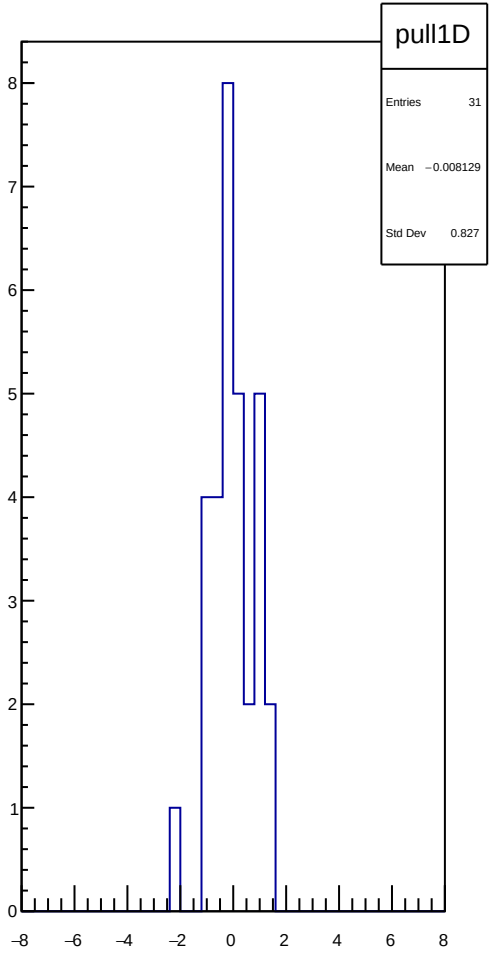

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.053e+05 / 30
p0 3.421e−11 ± 4.886e−14
0.12
0.1
0.08
0.06
0.04
0.02
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

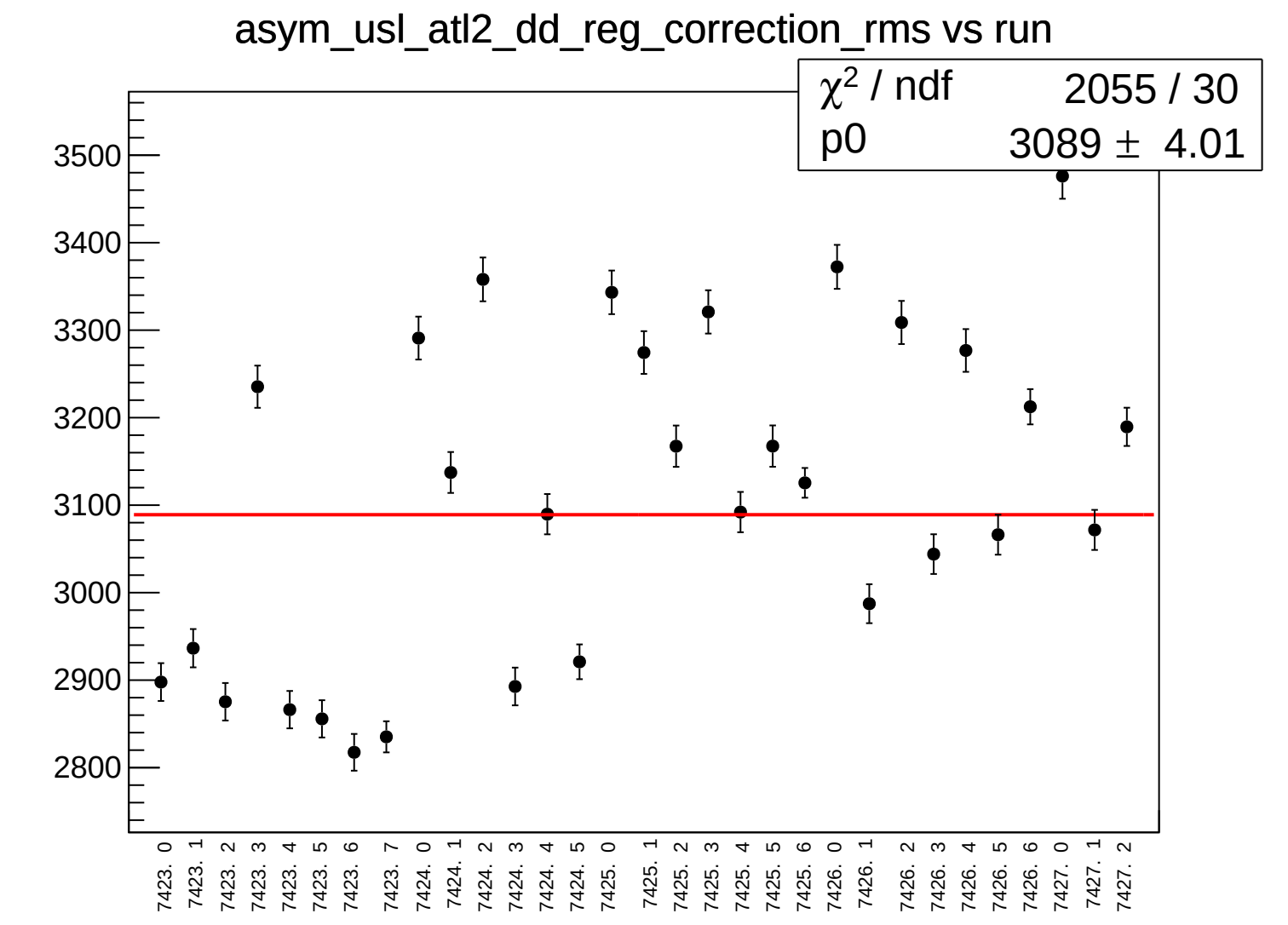

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 25.66 / 30
p0 −2980 ± 1673
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −161.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

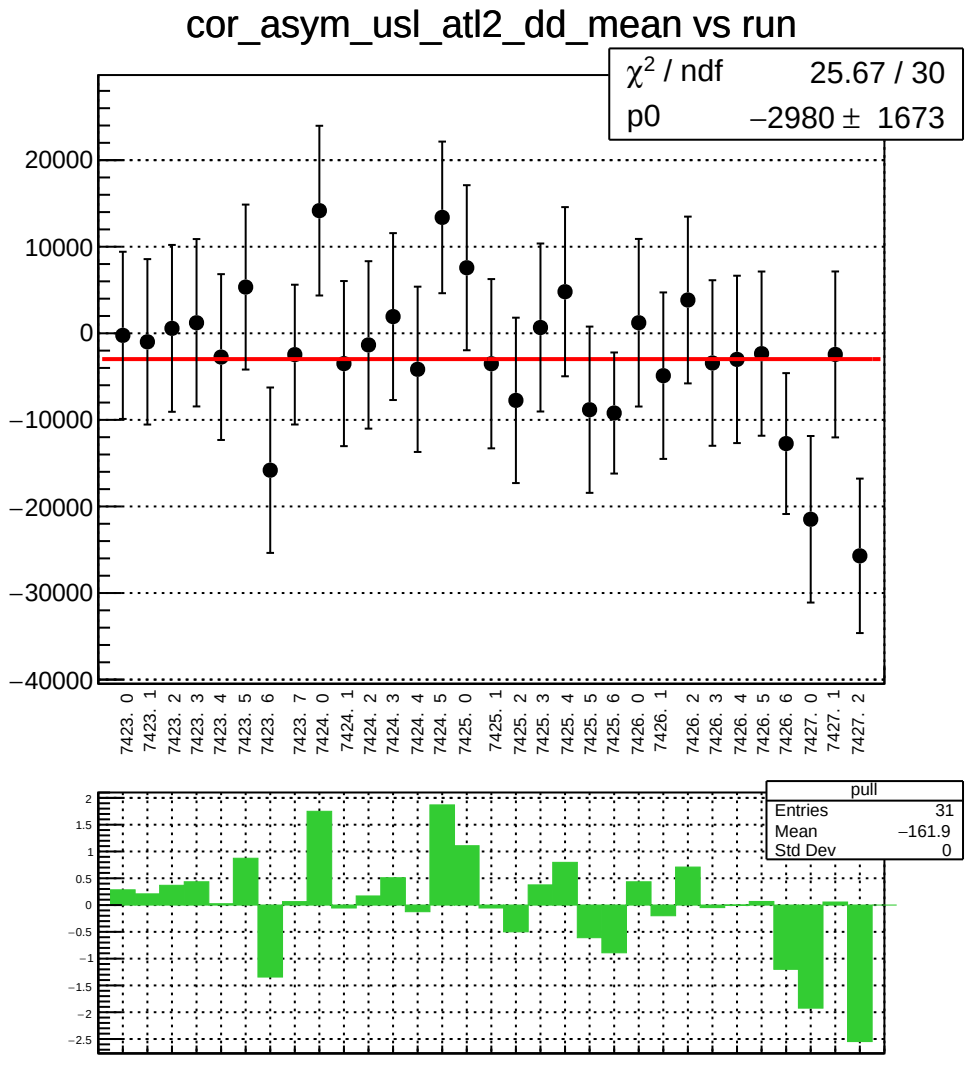

pull1D
Entries 31
Mean 0.0196
Std Dev 0.9097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

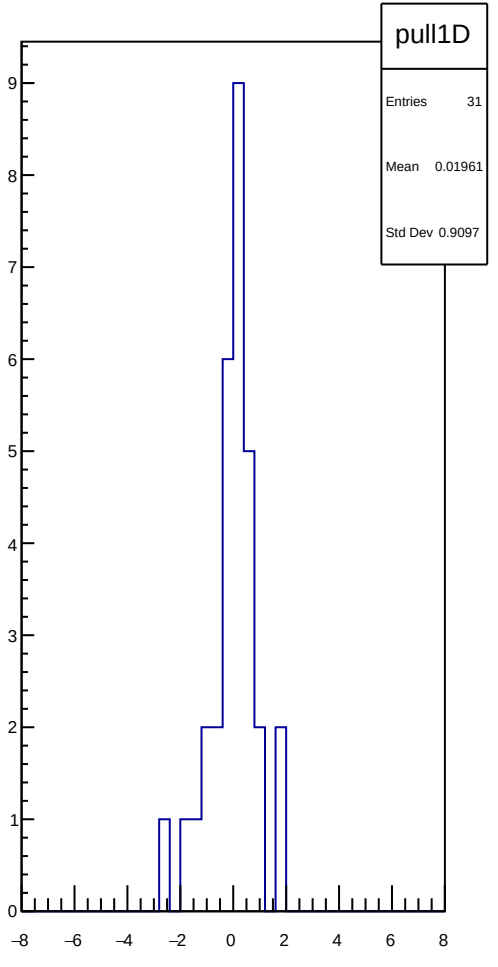

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 35.51 / 30
p0 912.6 ± 1.183
940
930
920
910
900
890
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

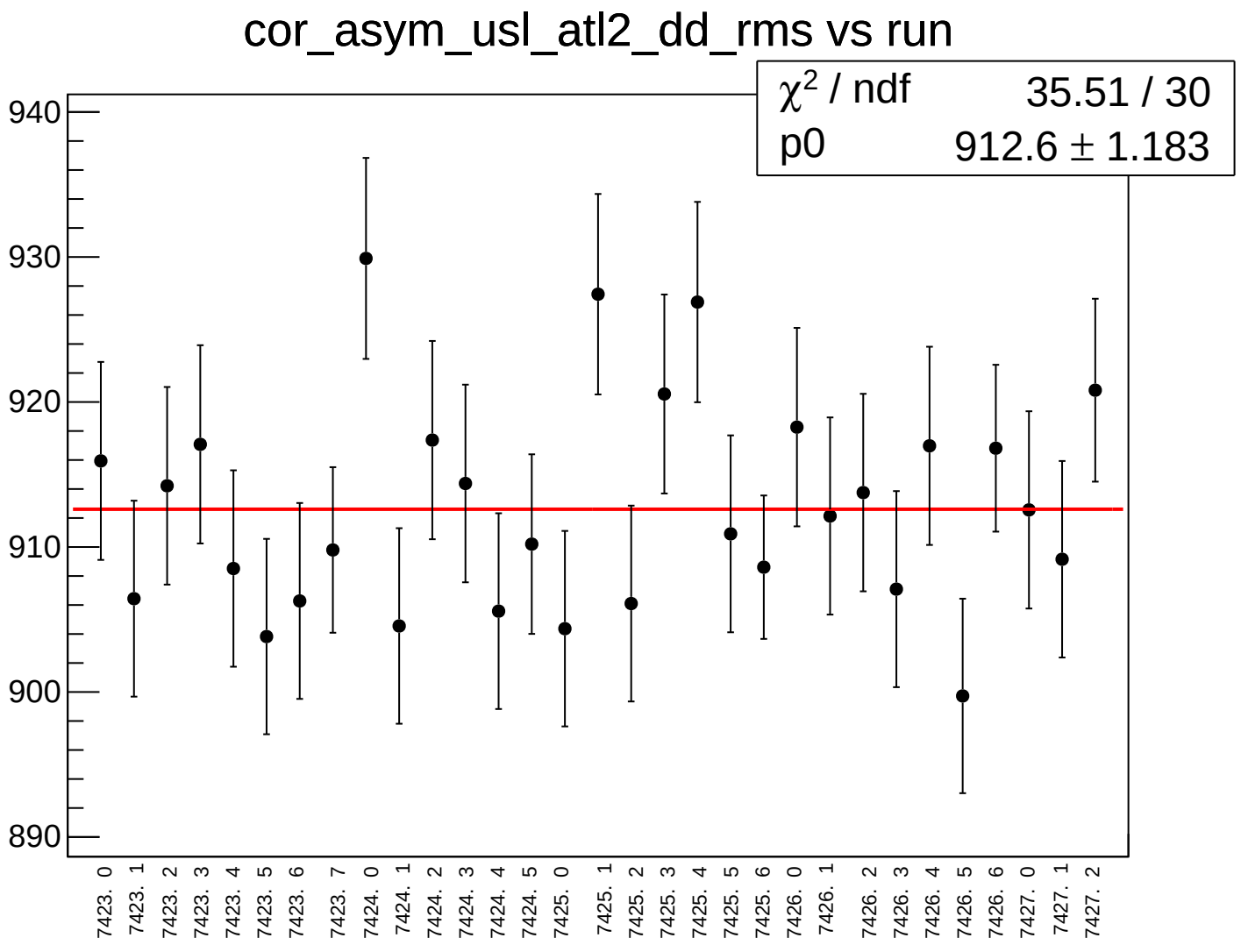

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 21.2 / 30
p0 −3293 ± 5671
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 436
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

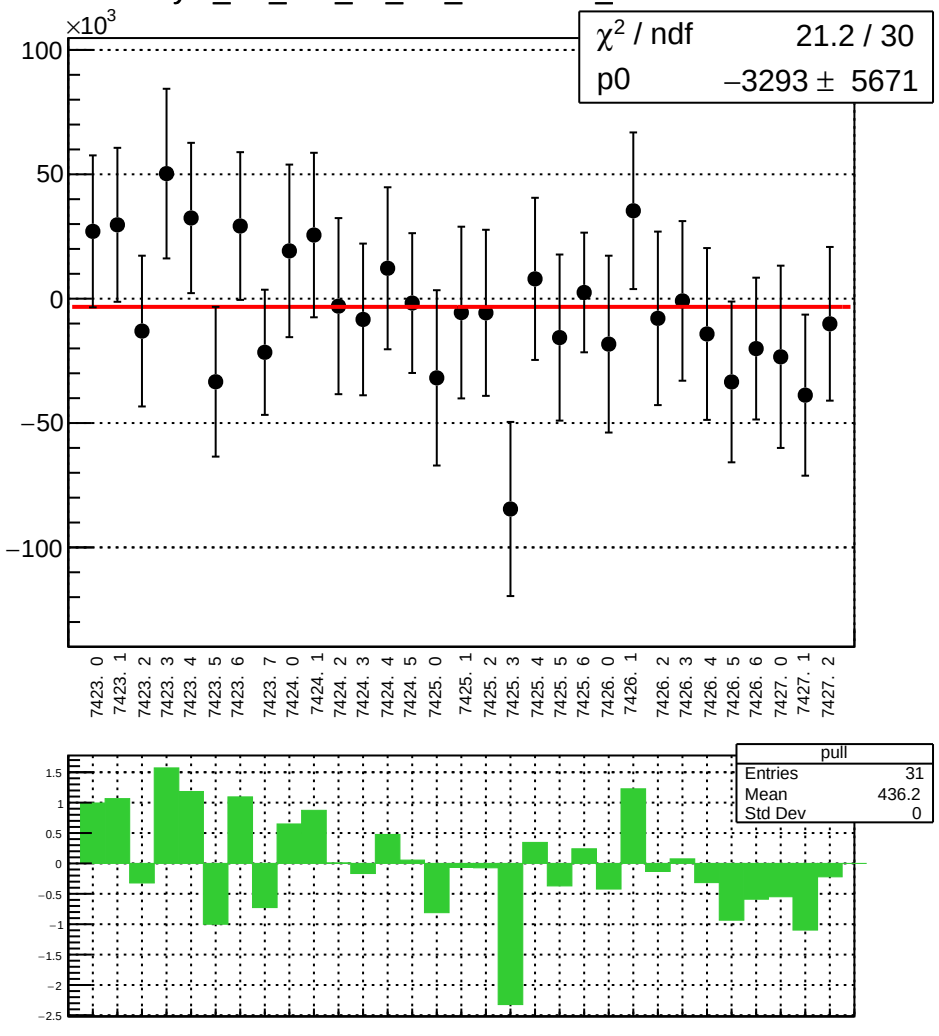

pull1D
Entries 31
Mean −0.008129
Std Dev 0.827
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

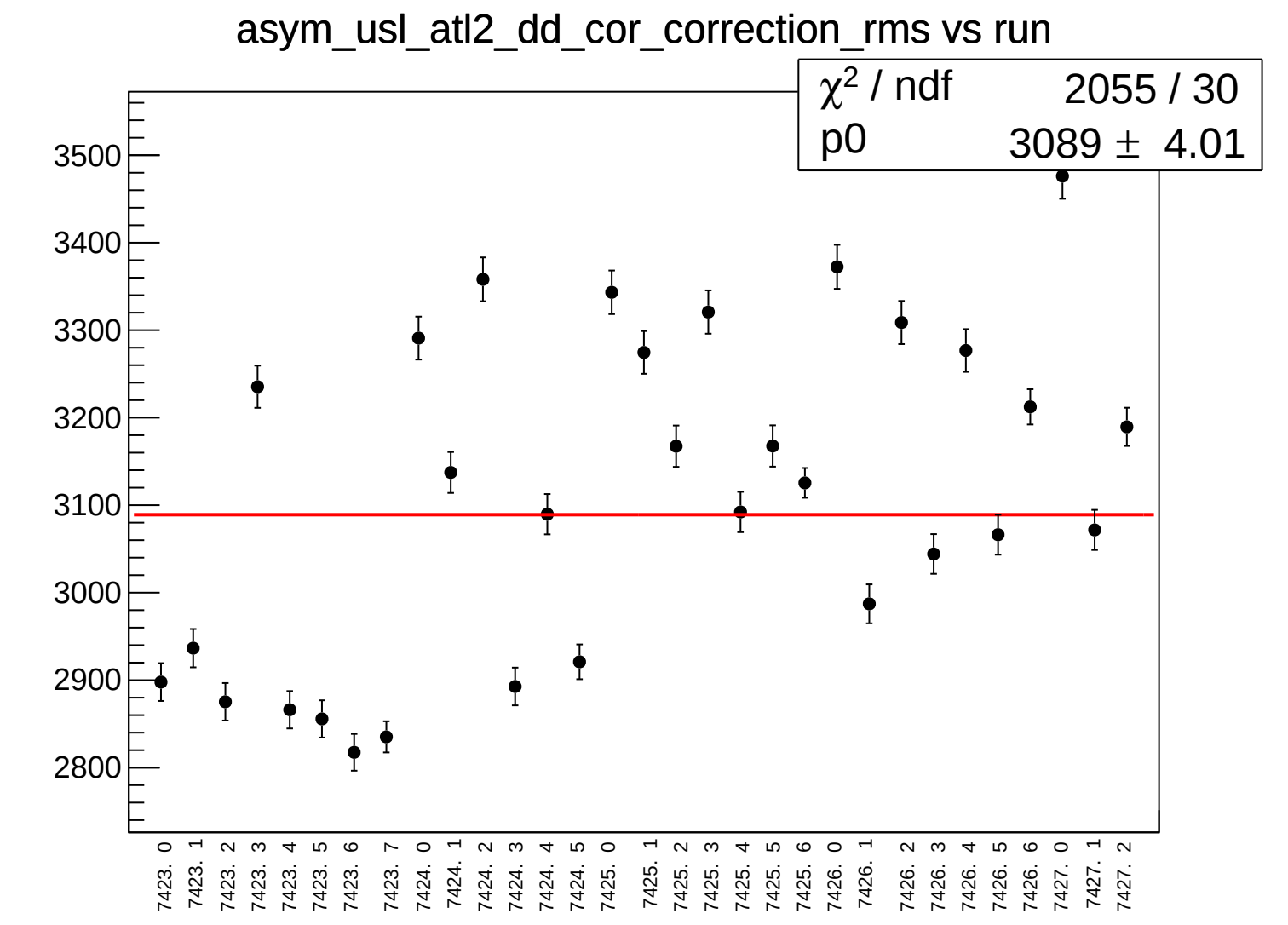

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2055 / 30
p0 3089 ± 4.01
3500
3400
3300
3200
3100
3000
2900
2800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

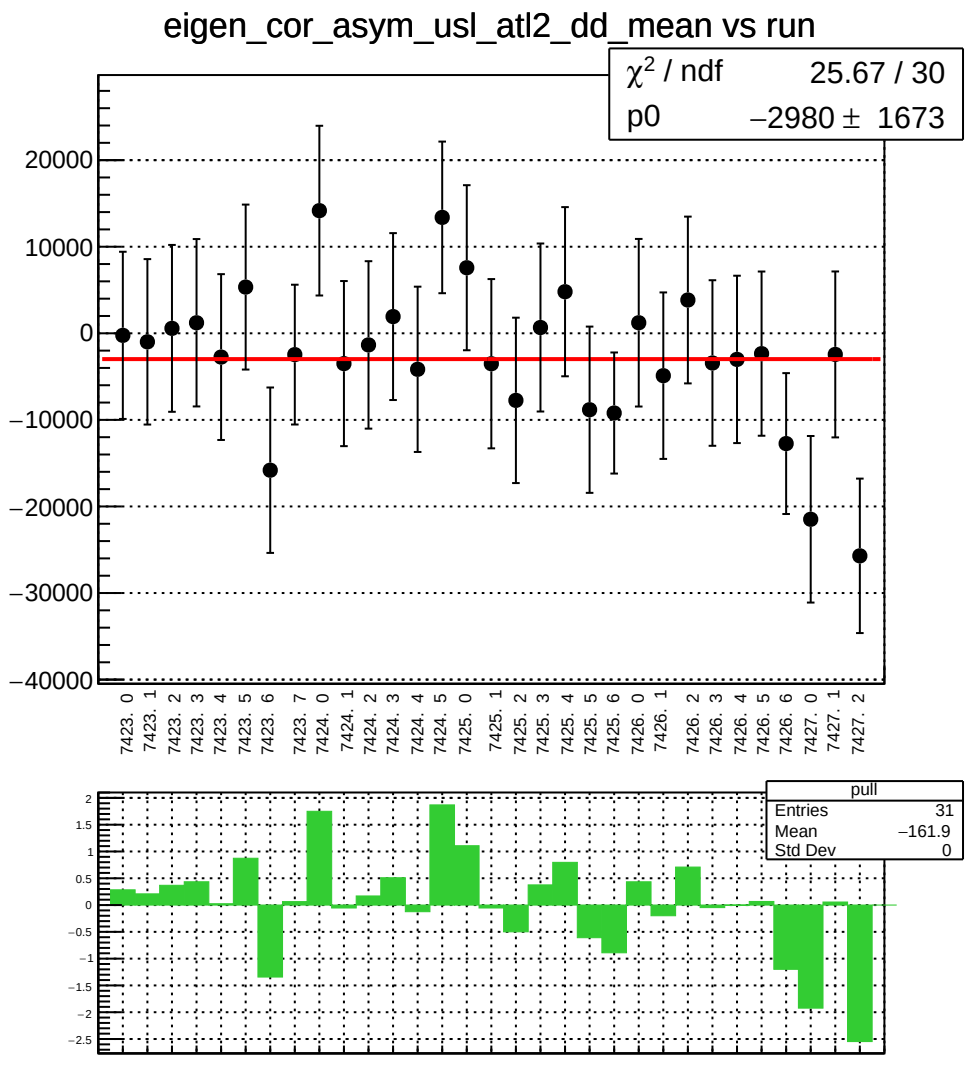

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 25.67 / 30
p0 −2980 ± 1673
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −161.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

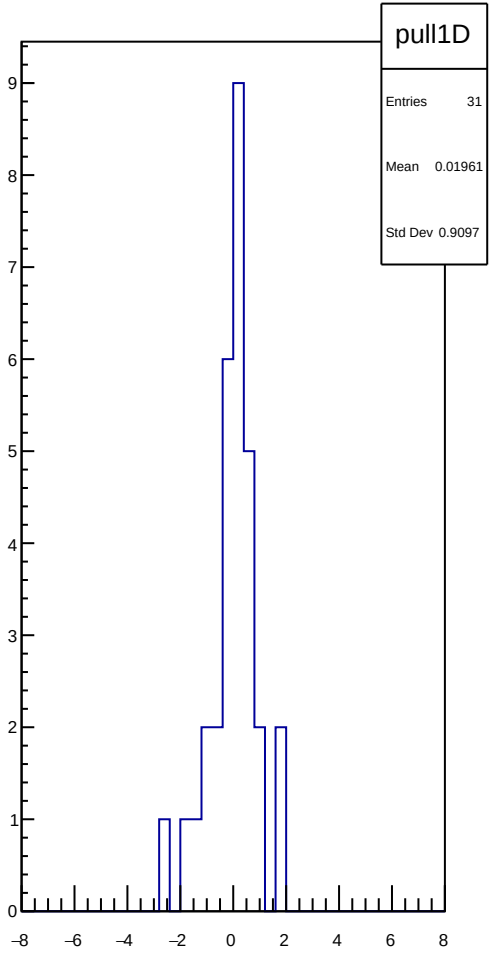

pull1D
Entries 31
Mean 0.01961
Std Dev 0.9097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

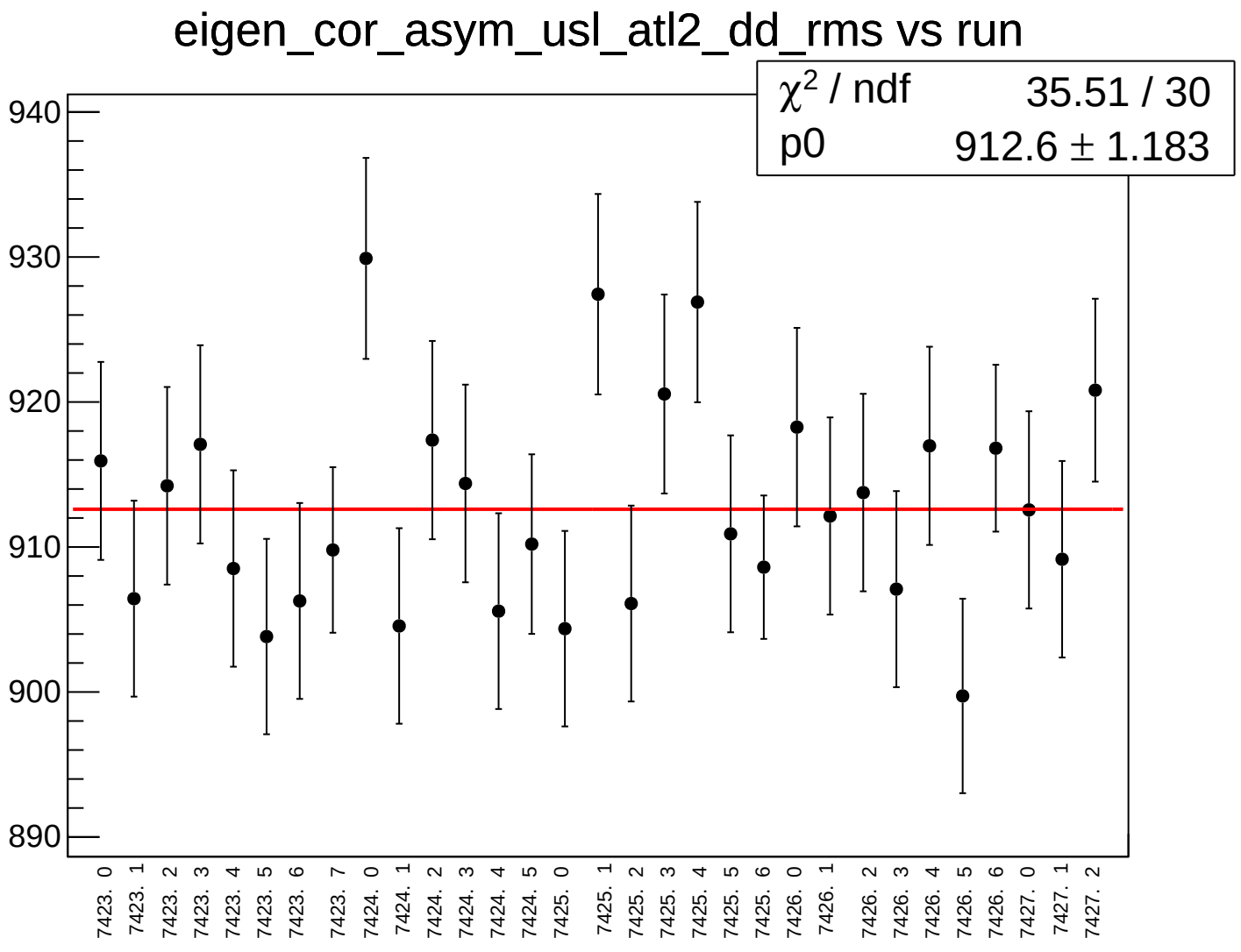

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 35.51 / 30
p0 912.6 ± 1.183
940
930
920
910
900
890
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

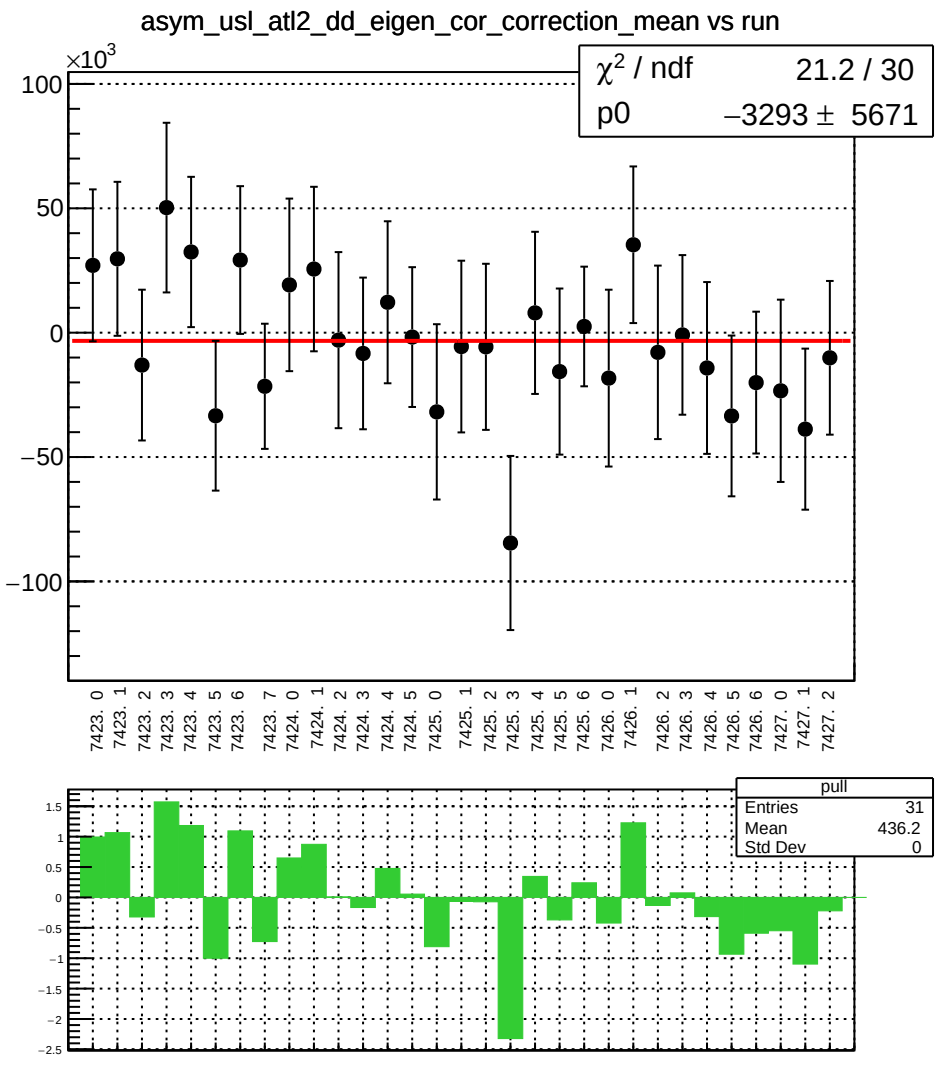

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 21.2 / 30
p0 −3293 ± 5671
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 436.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.008127
Std Dev 0.827
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

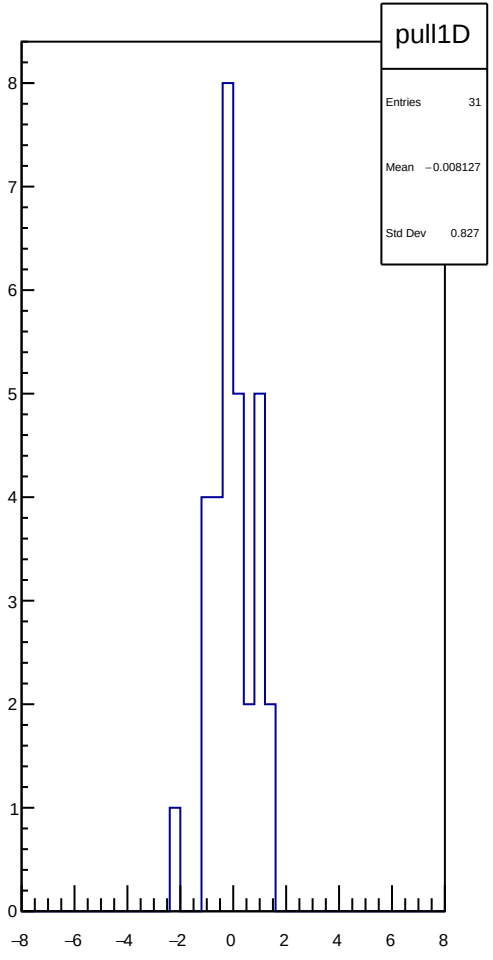

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2055 / 30
p0 3089 ± 4.01
3500
3400
3300
3200
3100
3000
2900
2800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

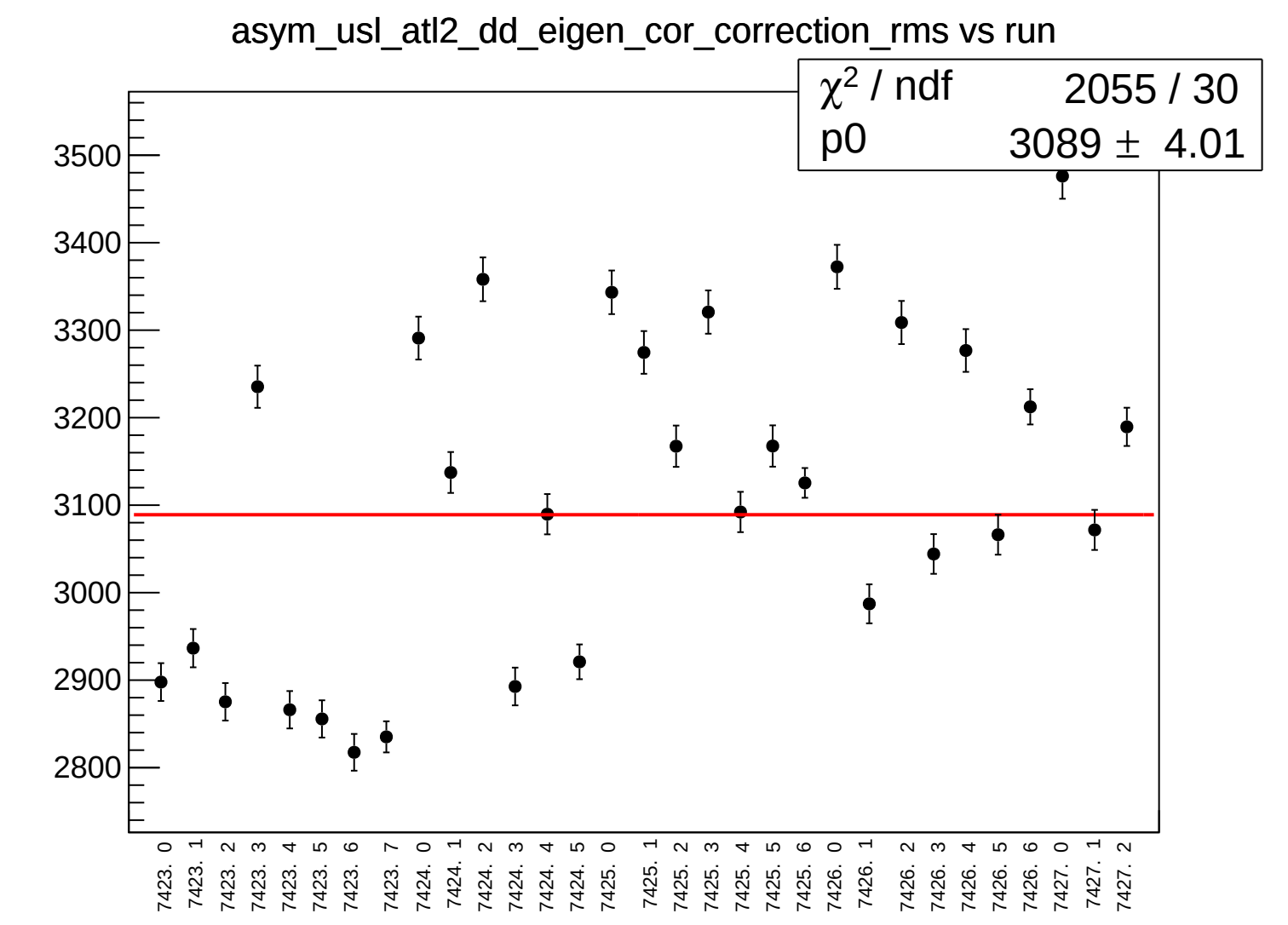

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 25.67 / 30
p0 −2980 ± 1673
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −161.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

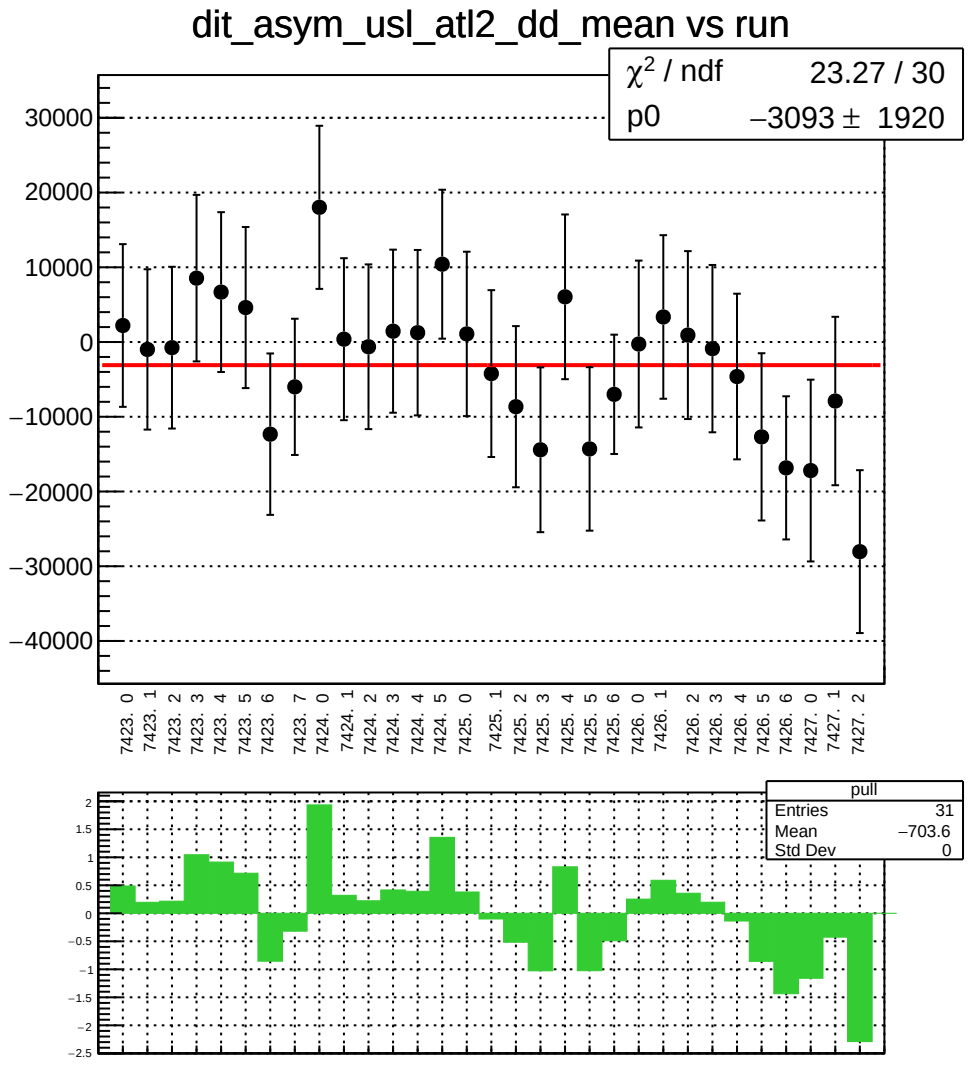

pull1D
Entries 31
Mean 0.01961
Std Dev 0.9097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

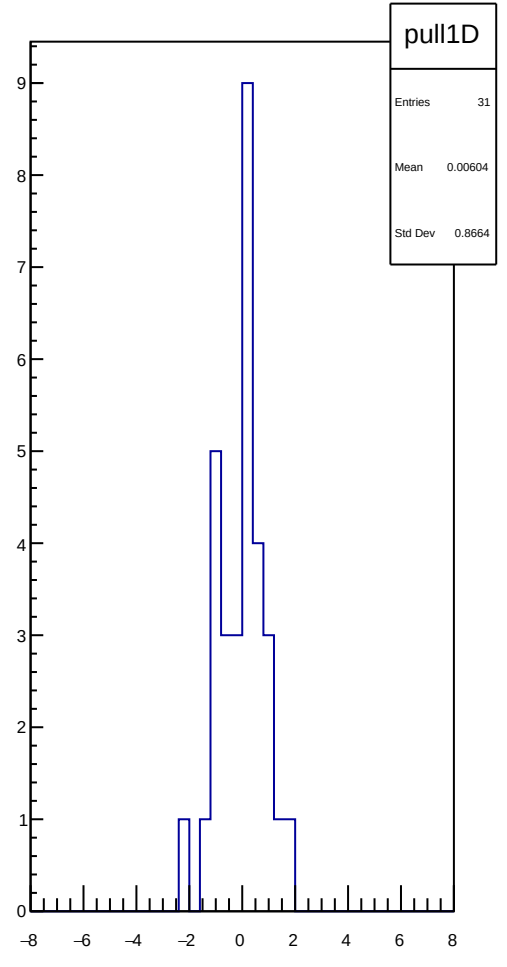

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 35.51 / 30
p0 912.6 ± 1.183
940
930
920
910
900
890
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

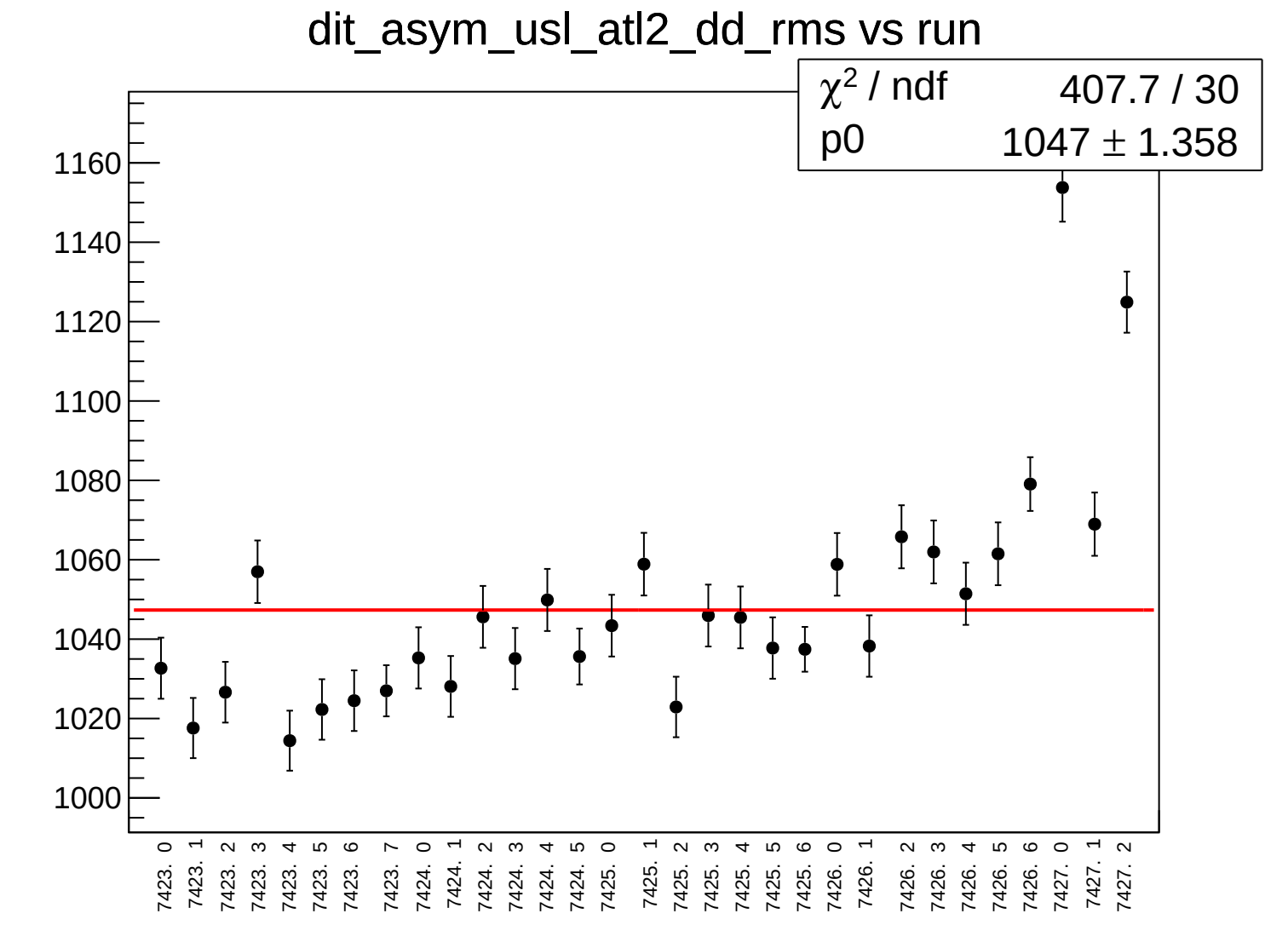

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.2 / 30
p0 −3293 ± 5671
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 436.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

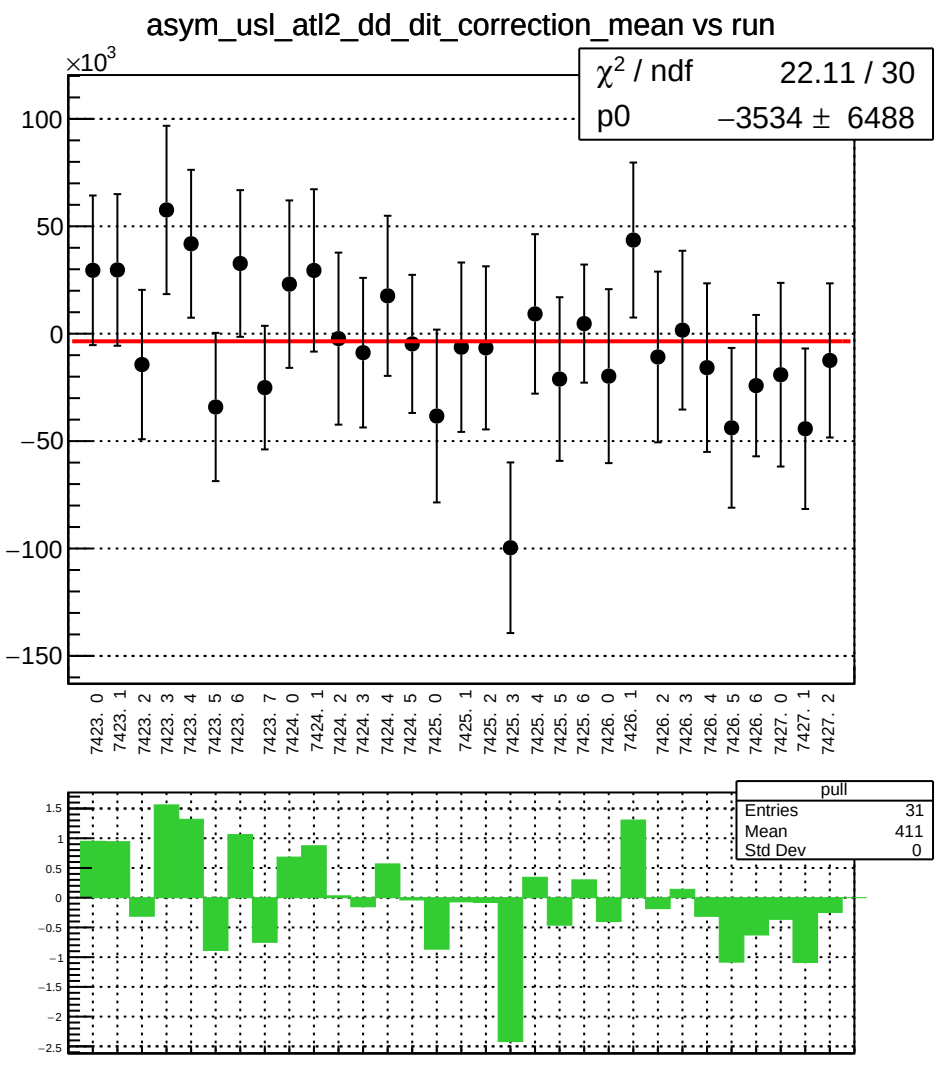

pull1D
Entries 31
Mean −0.008127
Std Dev 0.827
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

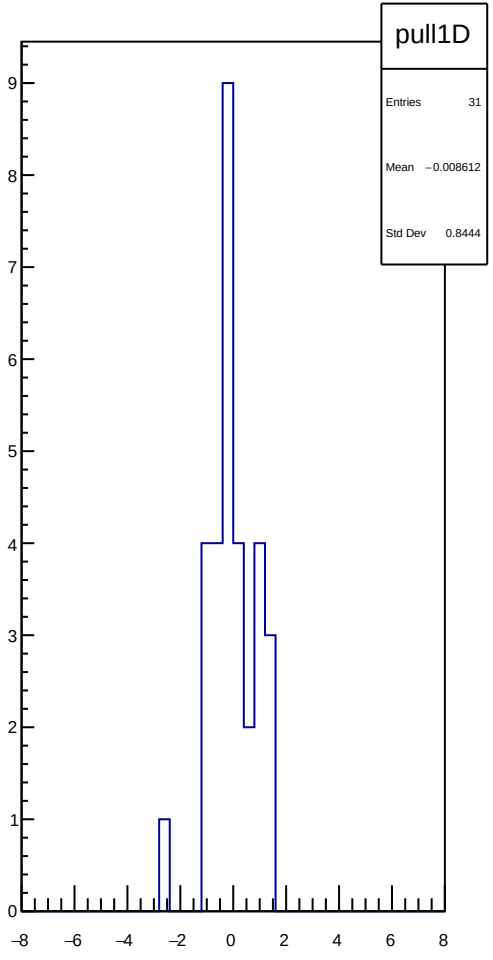

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2055 / 30
p0 3089 ± 4.01
3500
3400
3300
3200
3100
3000
2900
2800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

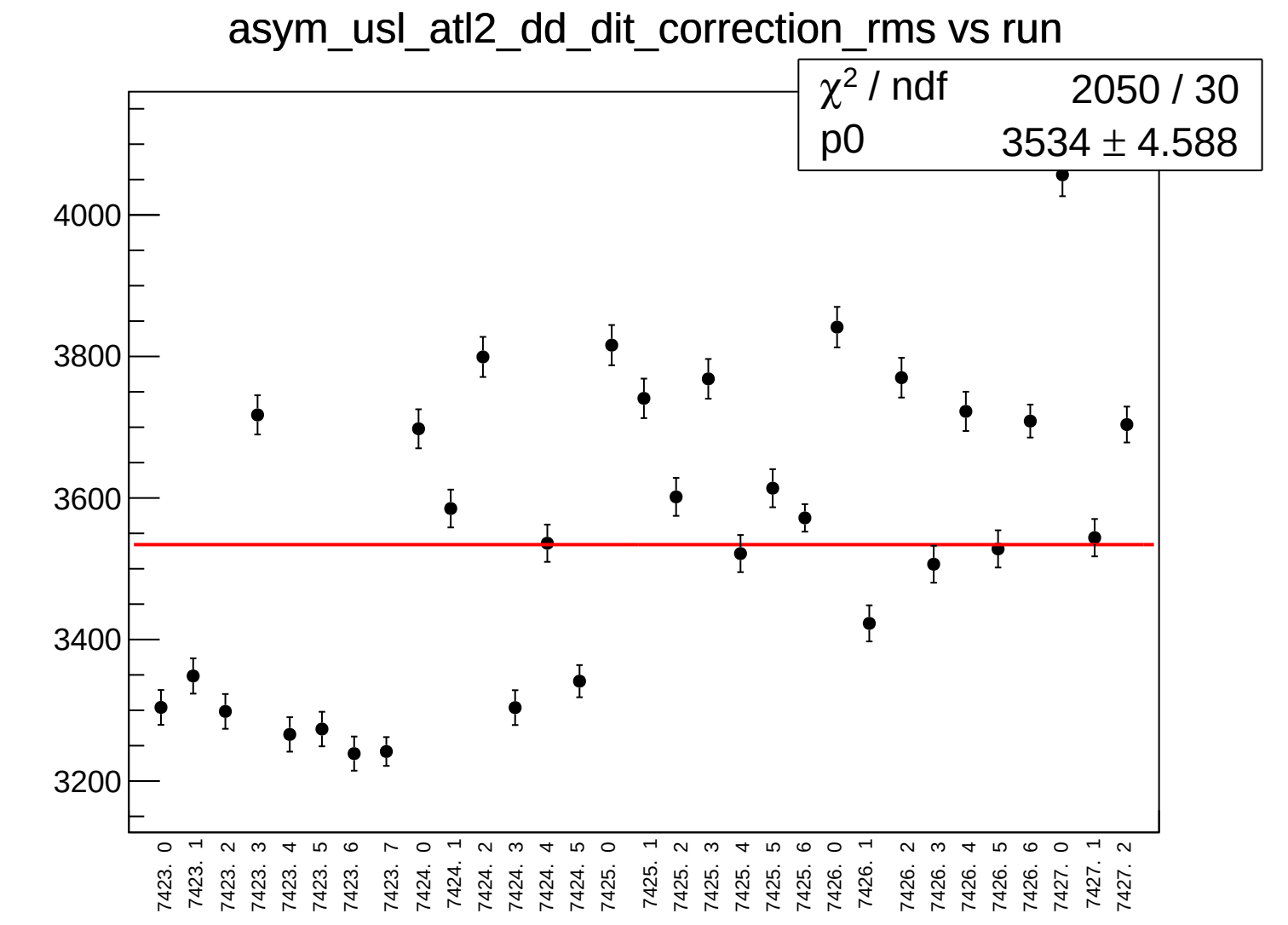

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 23.27 / 30
p0 −3093 ± 1920
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −703.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

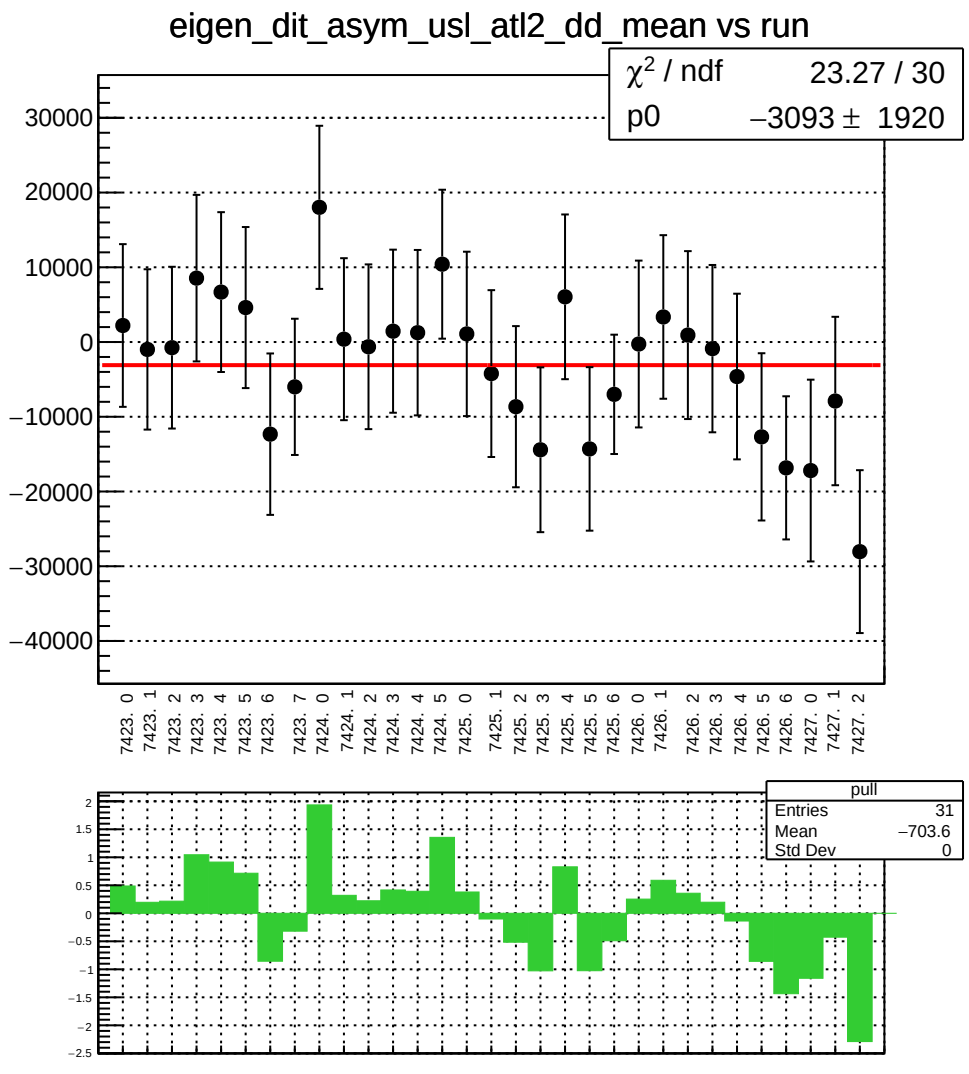

pull1D
Entries 31
Mean 0.00604
Std Dev 0.8664
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

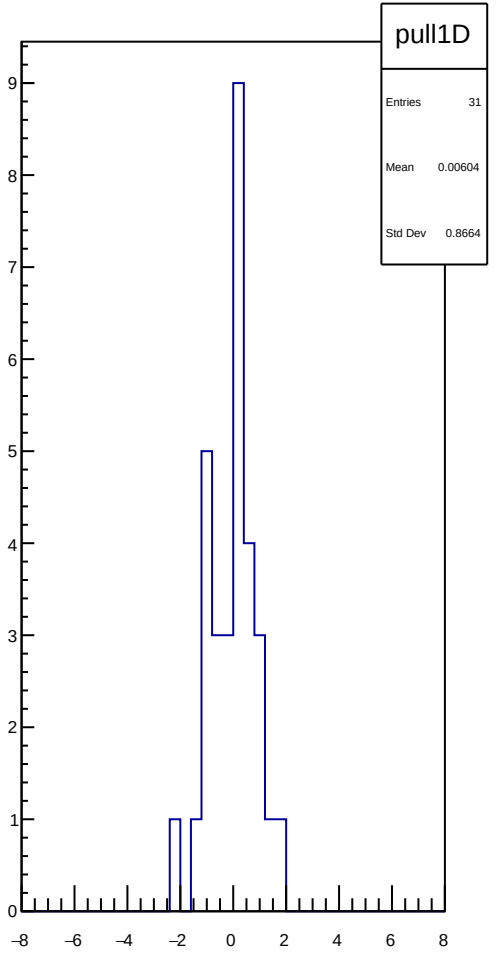

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 407.7 / 30
p0 1047 ± 1.358
1160
1140
1120
1100
1080
1060
1040
1020
1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

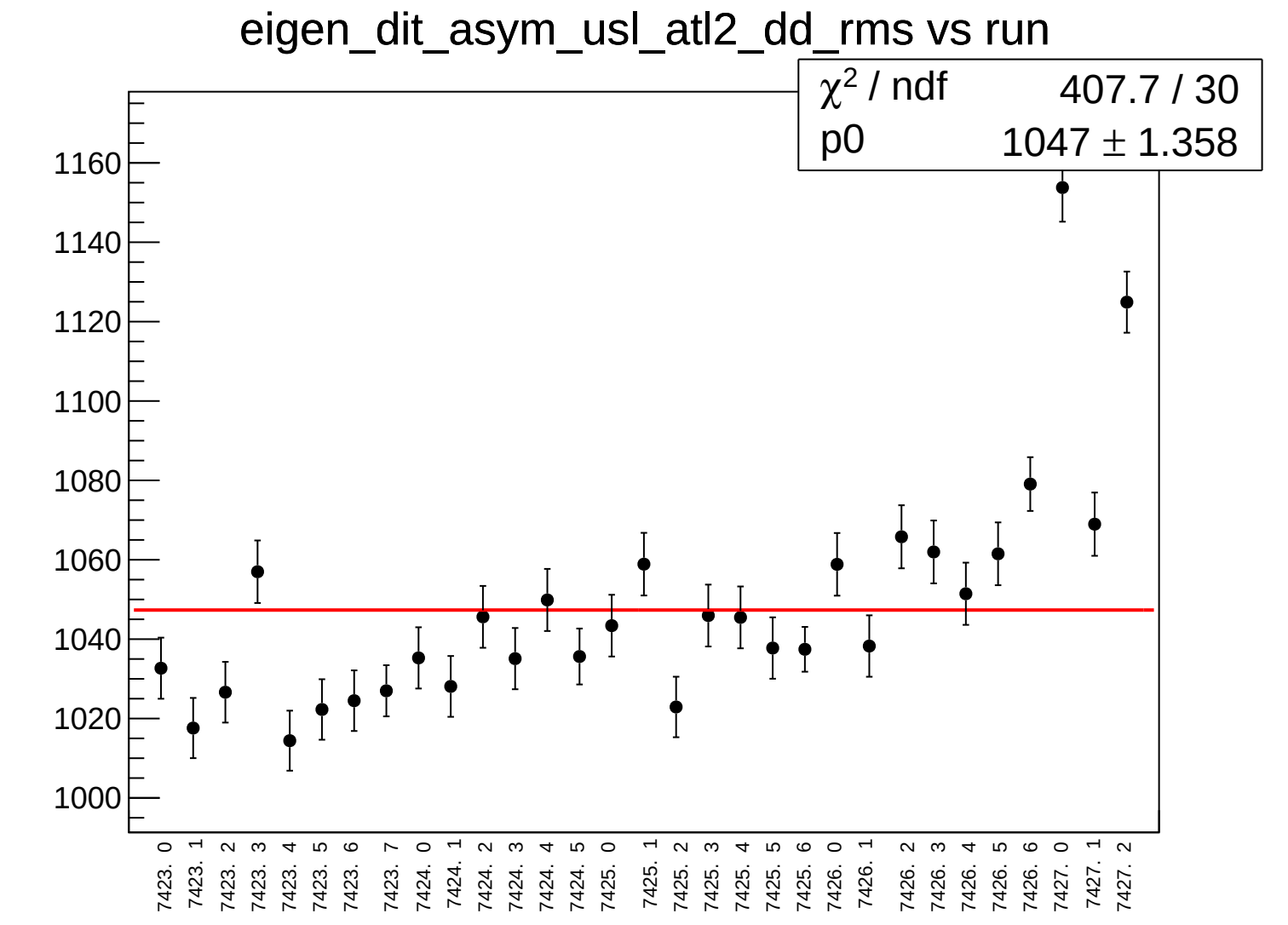

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 22.11 / 30
p0 −3534 ± 6488
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 411
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

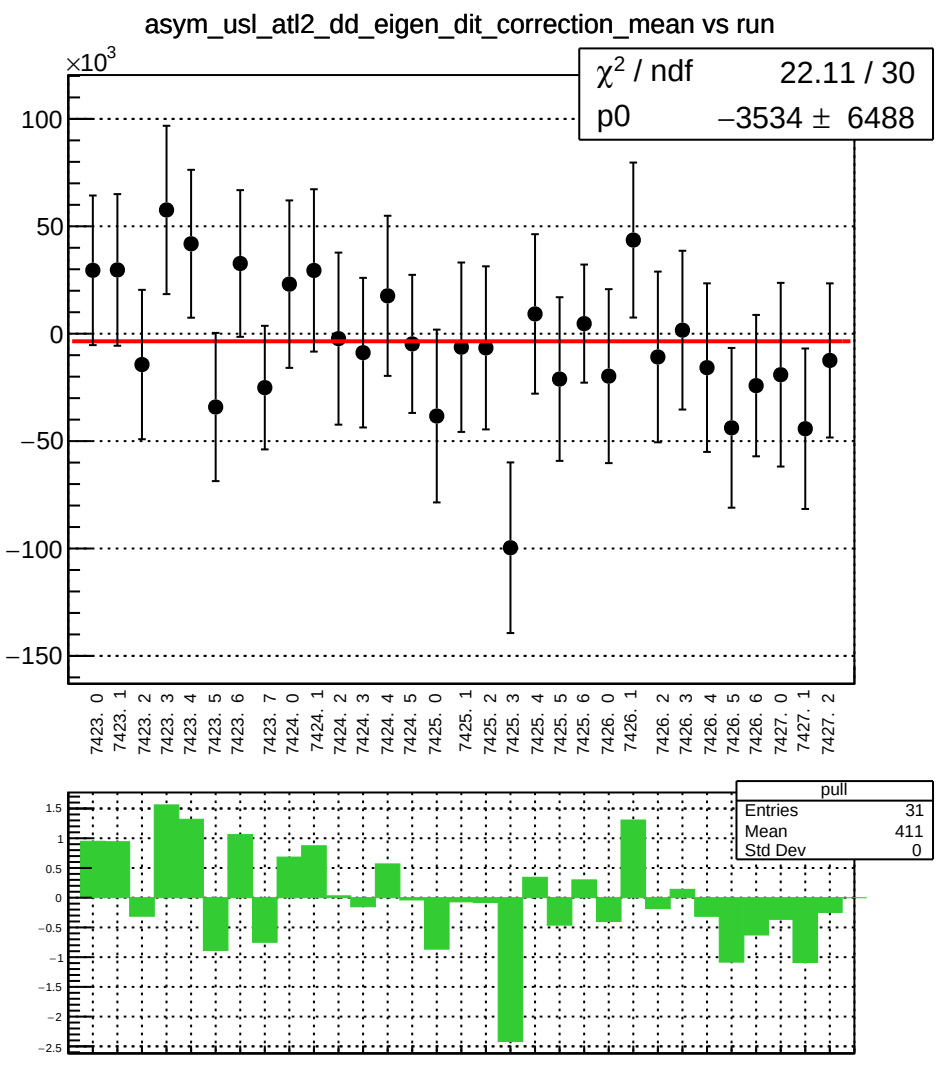

pull1D
Entries 31
Mean −0.008612
Std Dev 0.8444
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

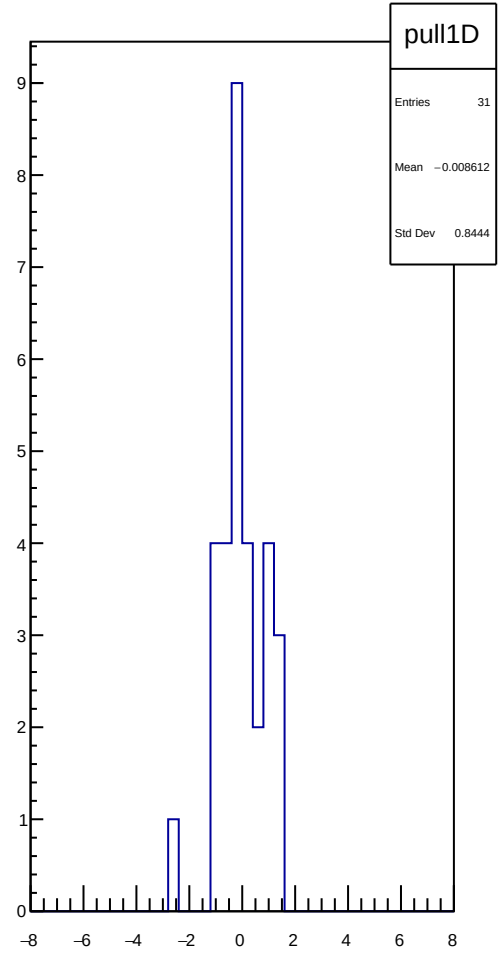

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2050 / 30
p0 3534 ± 4.588
4000
3800
3600
3400
3200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

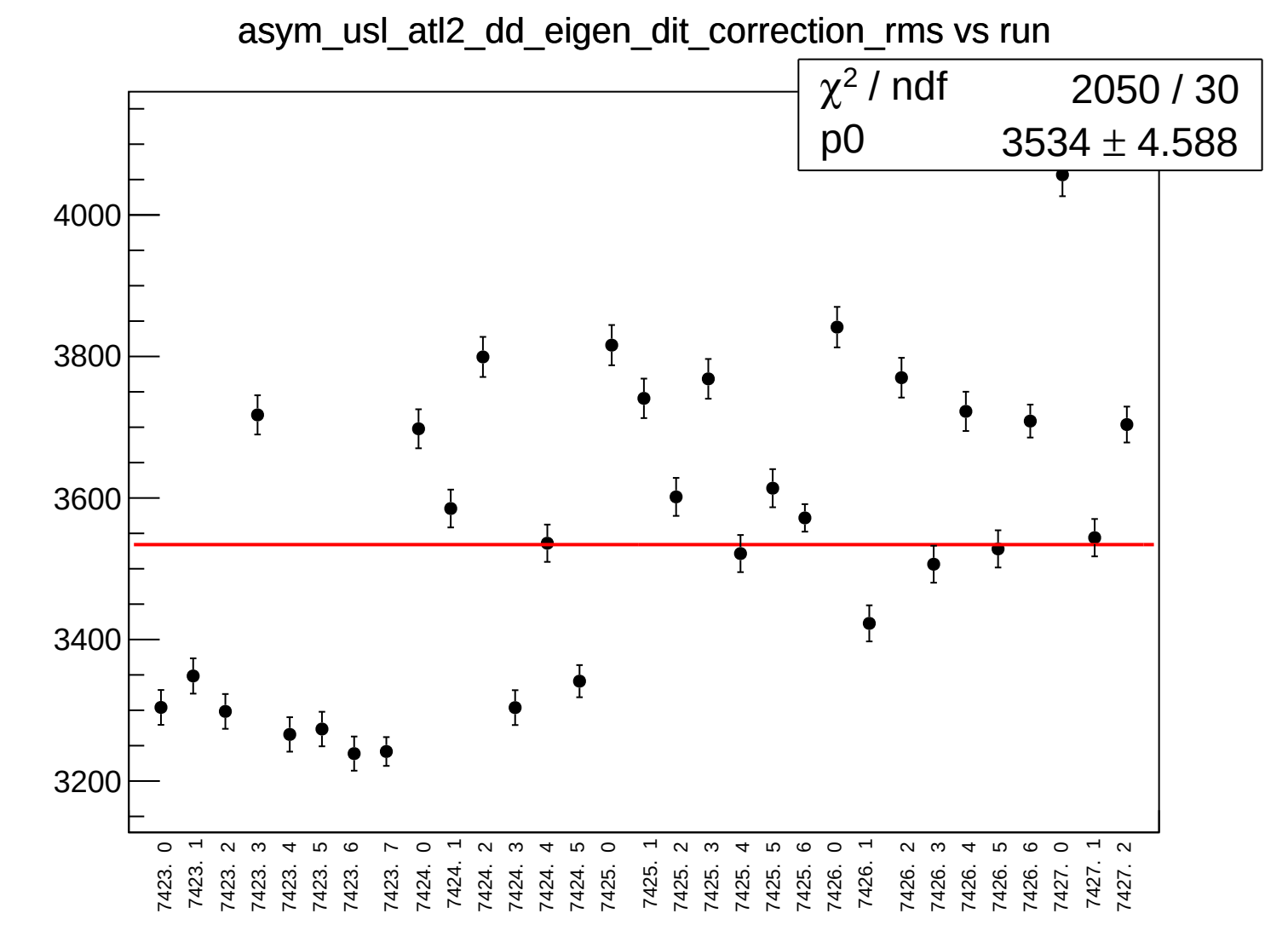

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 23.27 / 30
p0 −3093 ± 1920
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −703.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

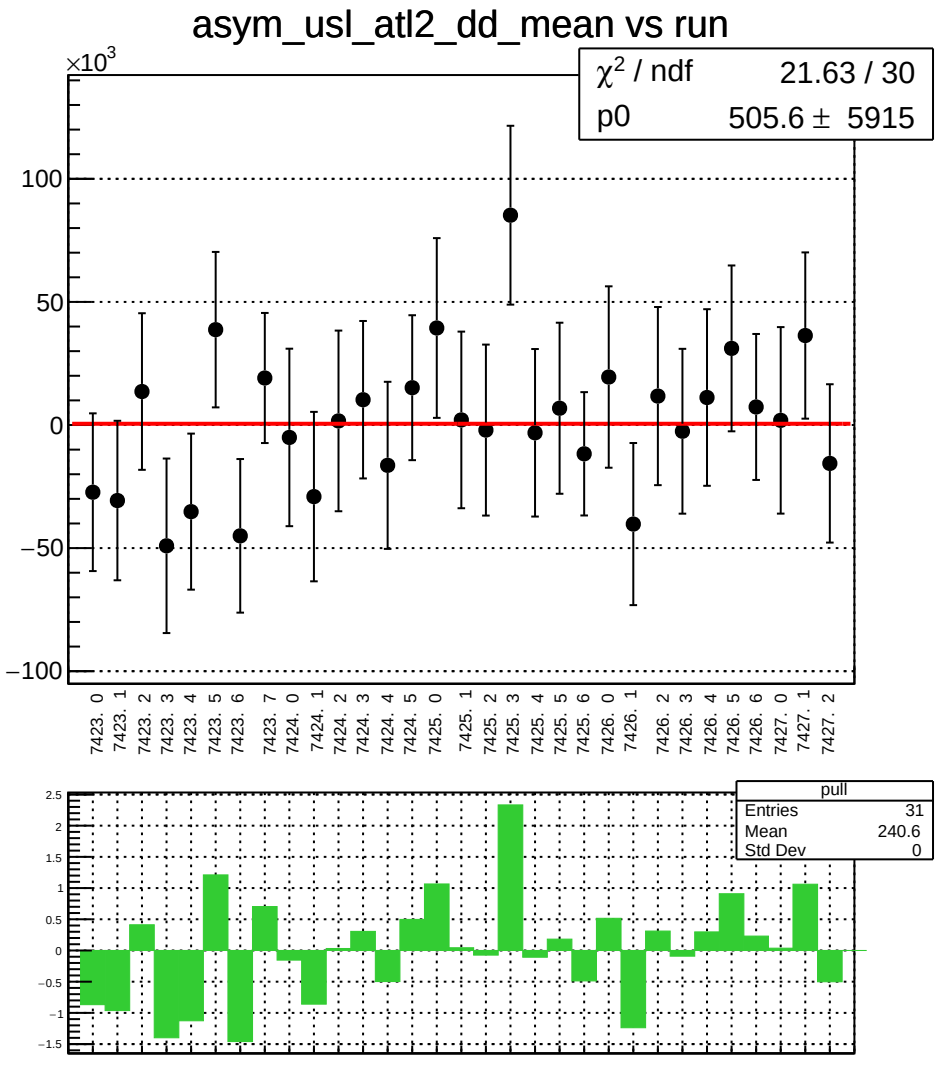

pull1D
Entries 31
Mean 0.00604
Std Dev 0.8664
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

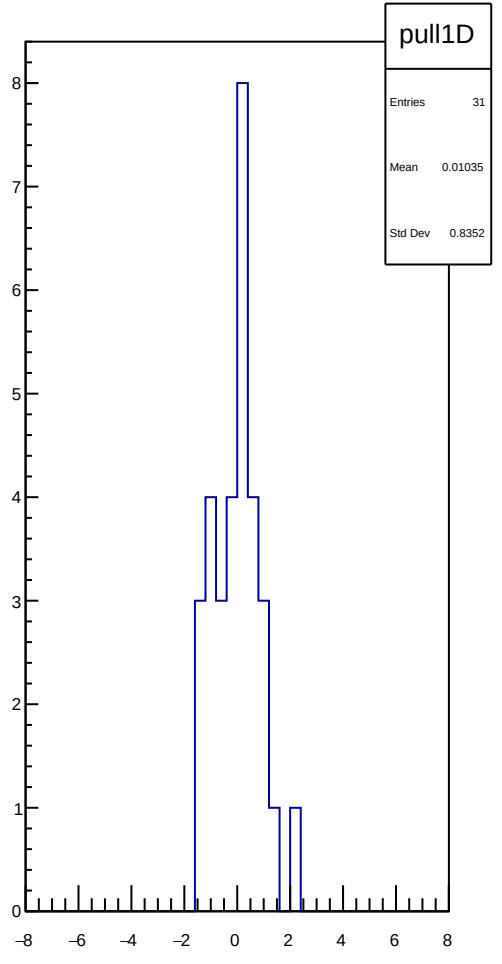

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 407.7 / 30
p0 1047 ± 1.358
1160
1140
1120
1100
1080
1060
1040
1020
1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

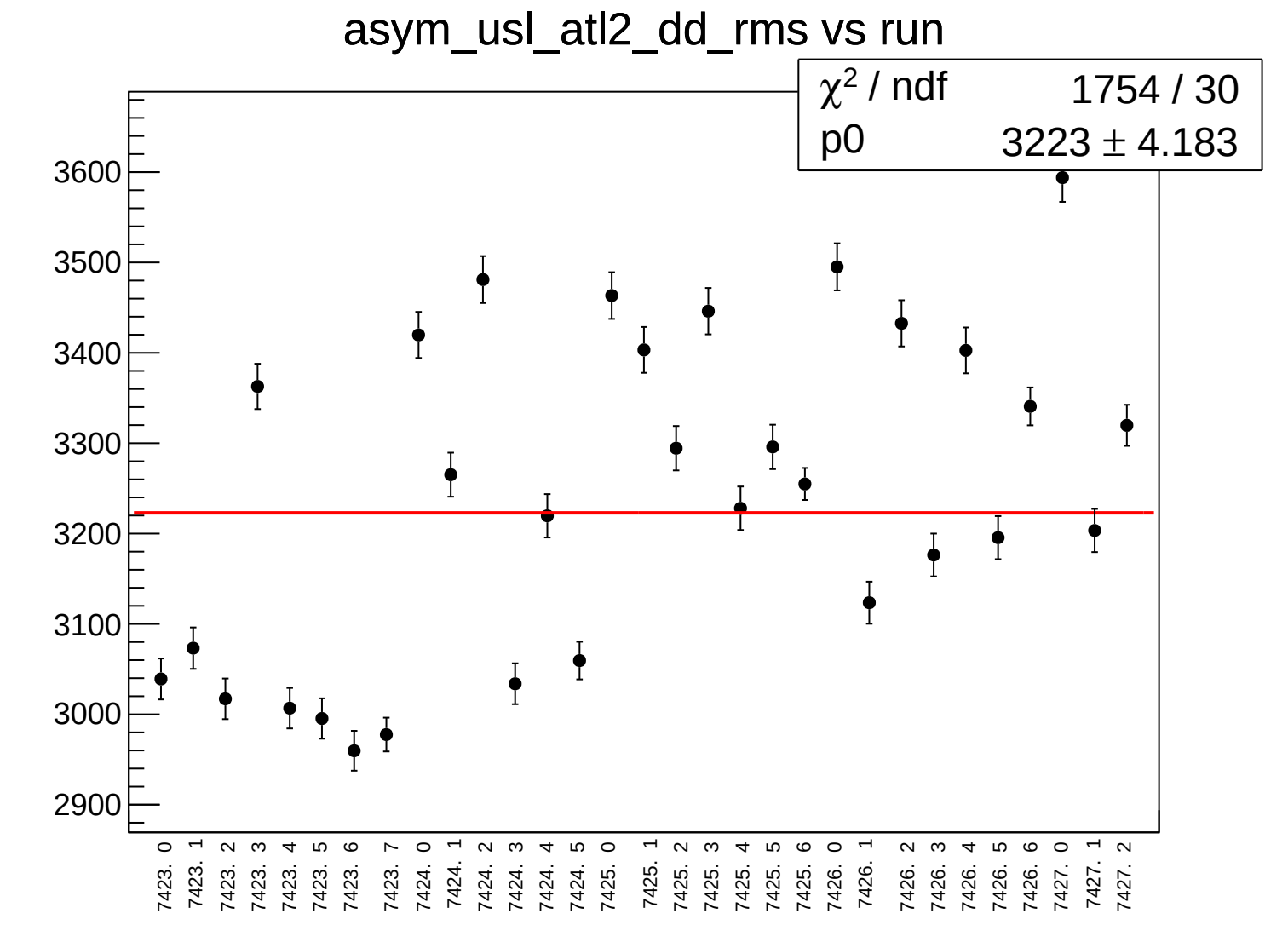

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.11 / 30
p0 −3534 ± 6488
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 411
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

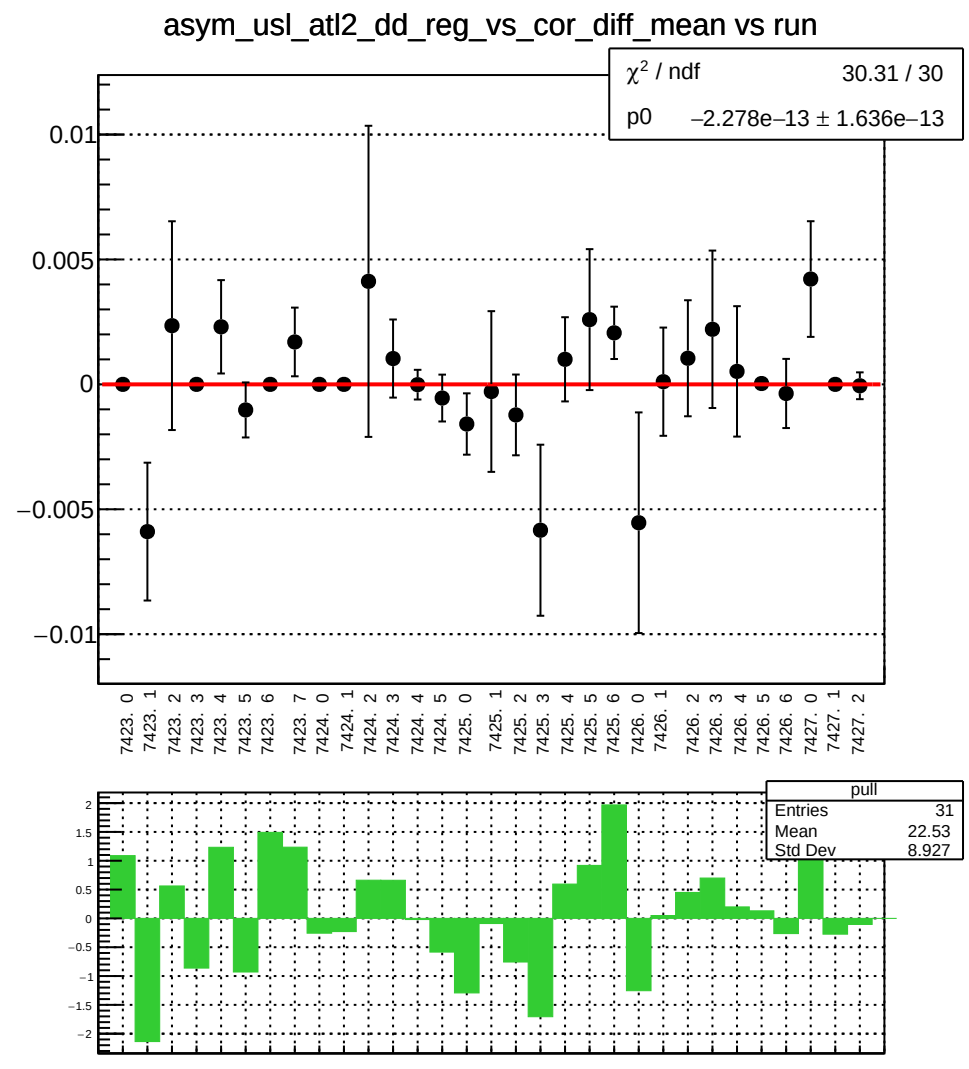

pull1D
Entries 31
Mean −0.008612
Std Dev 0.8444
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

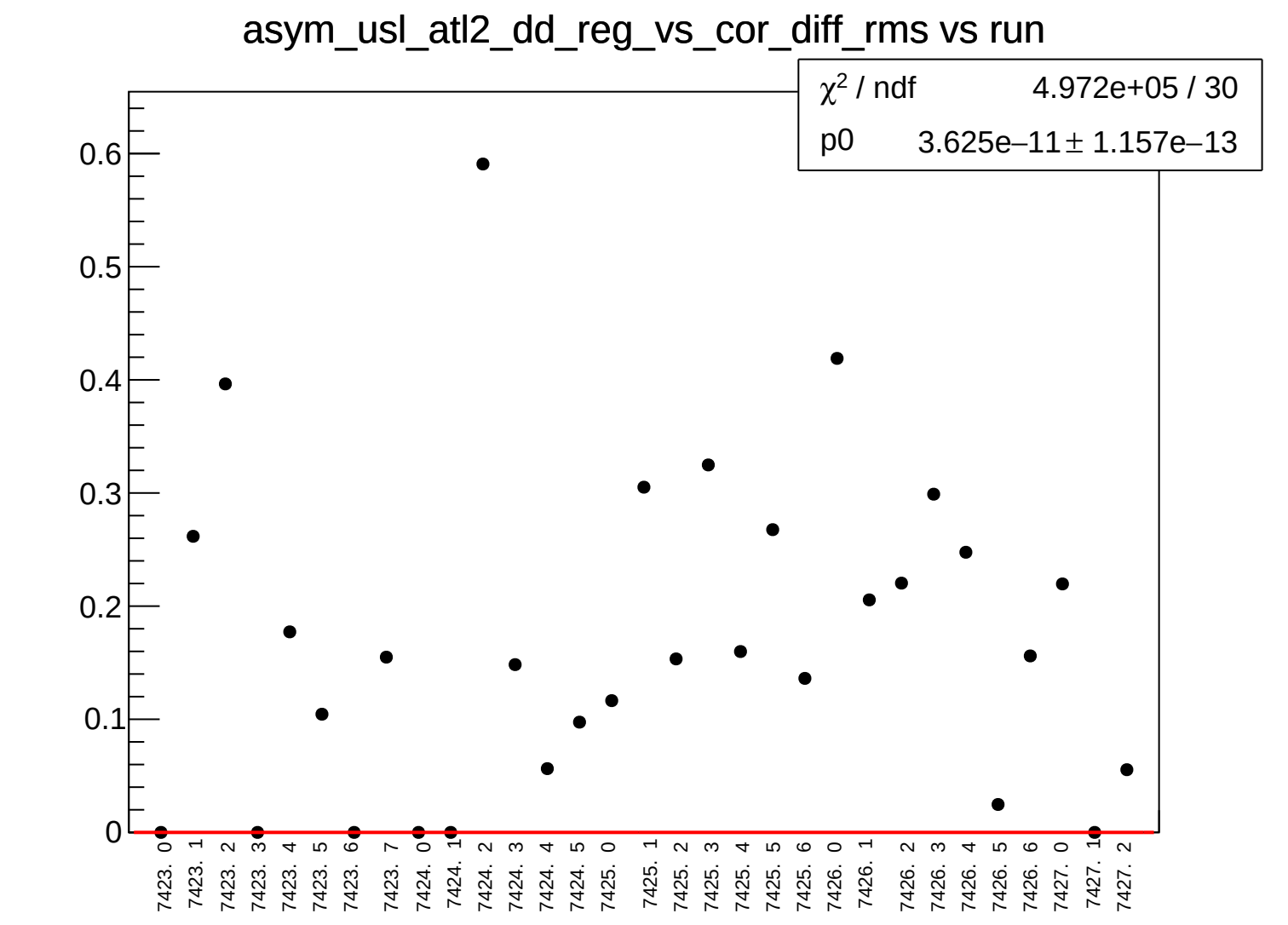

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2050 / 30
p0 3534 ± 4.588
4000
3800
3600
3400
3200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

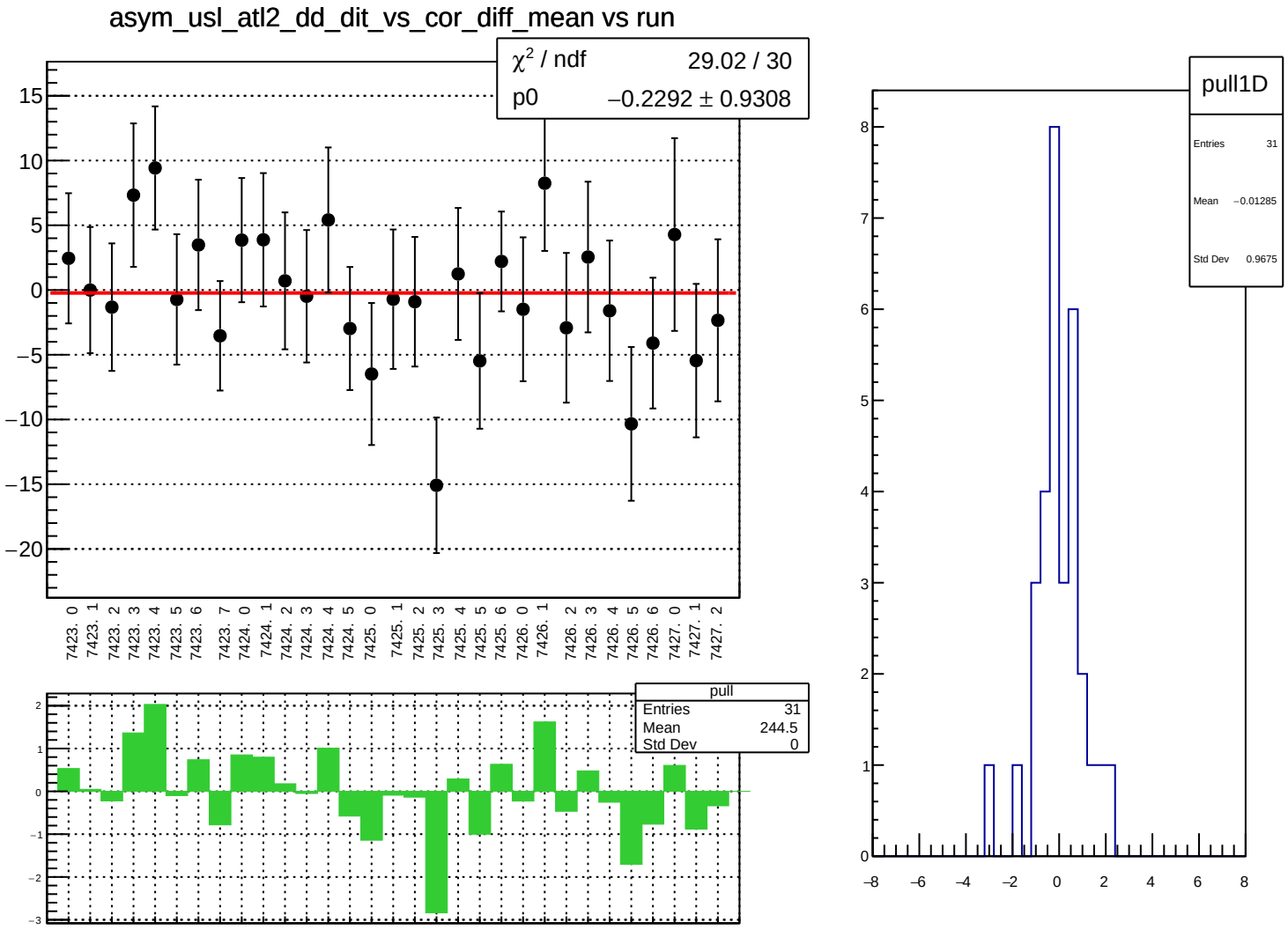

asym_usl_atl2_dd_mean vs run
χ² / ndf 21.63 / 30
p0 505.6 ± 5915
×10³
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 240.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

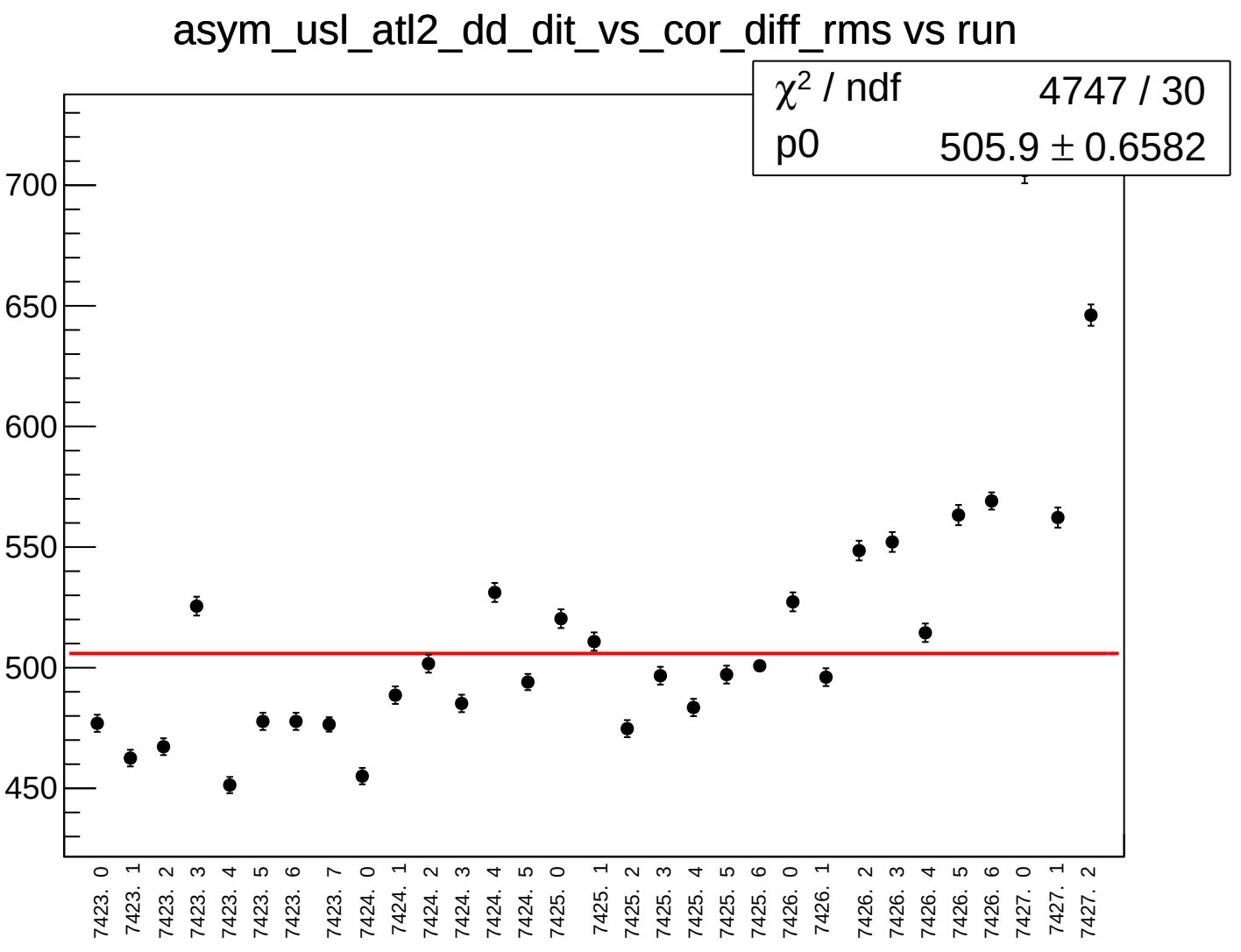

pull1D
Entries 31
Mean 0.01035
Std Dev 0.8352
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

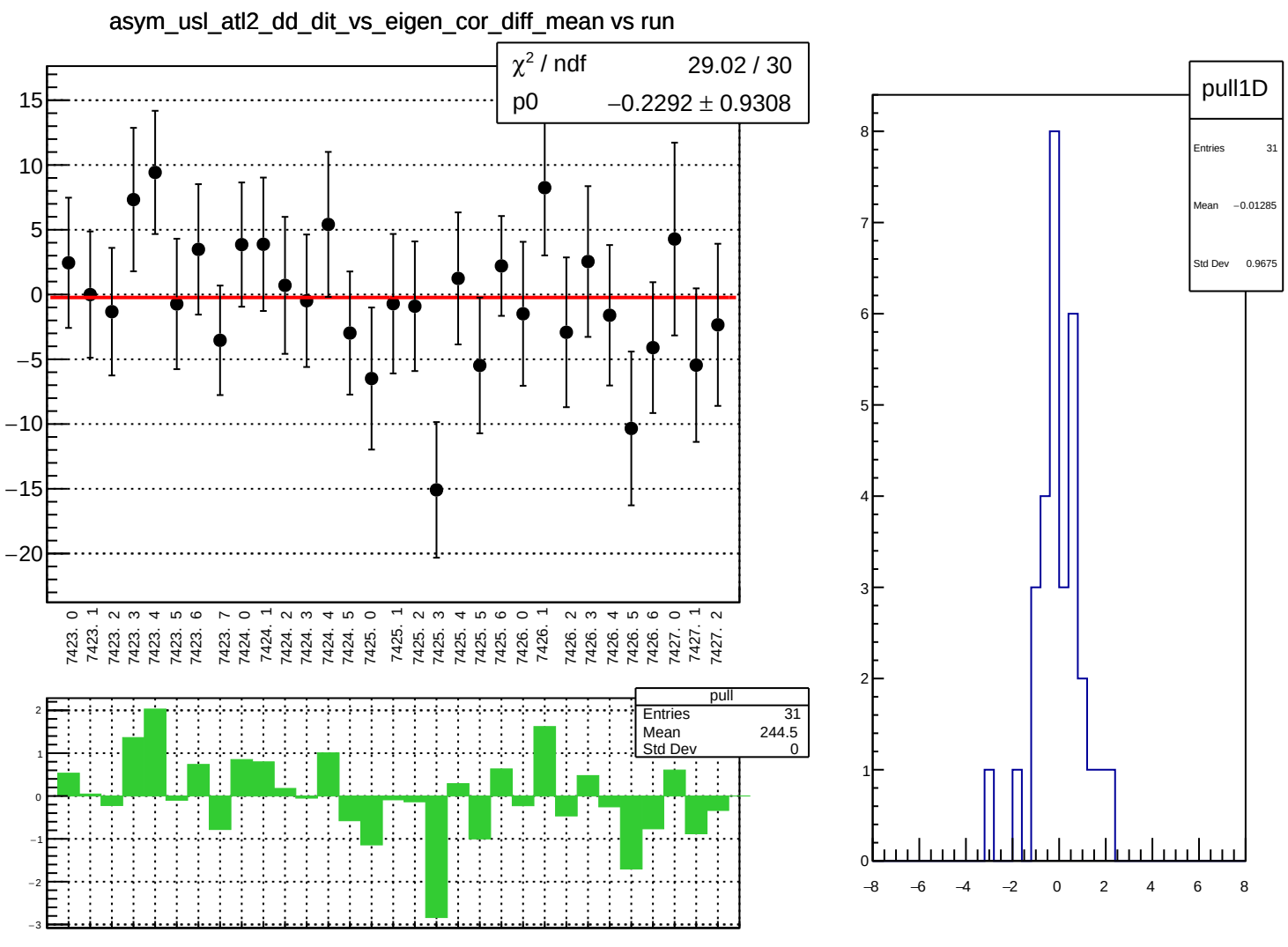

asym_usl_atl2_dd_rms vs run
χ² / ndf 1754 / 30
p0 3223 ± 4.183
3600
3500
3400
3300
3200
3100
3000
2900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

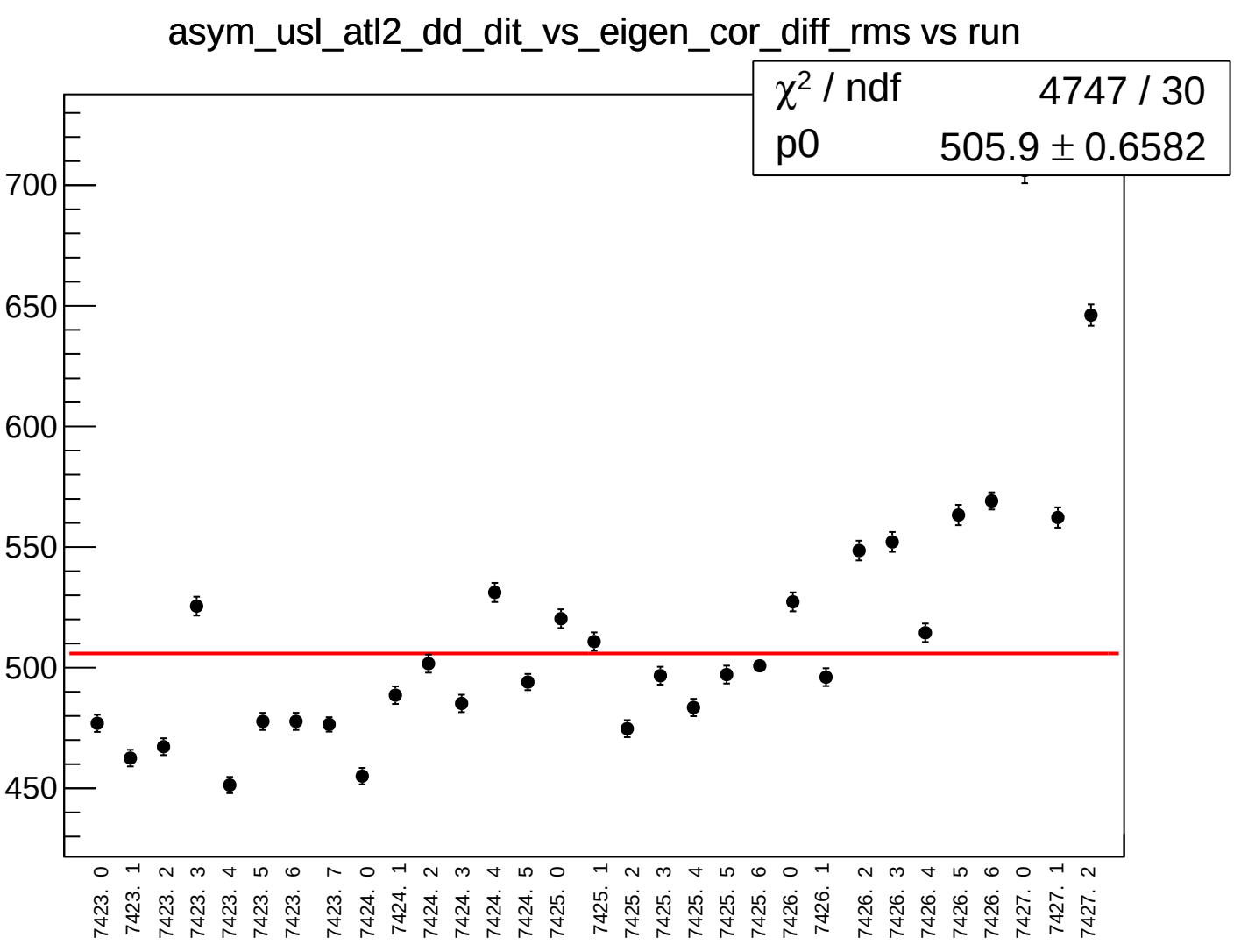

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 30.31 / 30
p0 −2.278e−13 ± 1.636e−13
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 22.53
Std Dev 8.927
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.09715
Std Dev 0.984
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.972e+05 / 30
p0 3.625e−11 ± 1.157e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

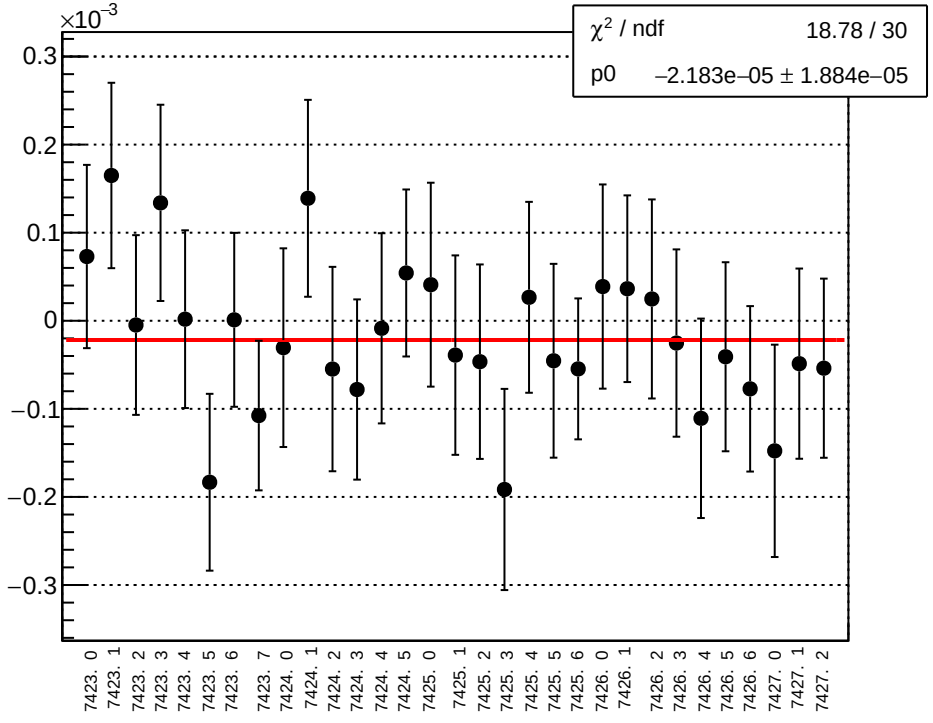

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 29.02 / 30
p0 −0.2292 ± 0.9308
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 244.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.01285
Std Dev 0.9675
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

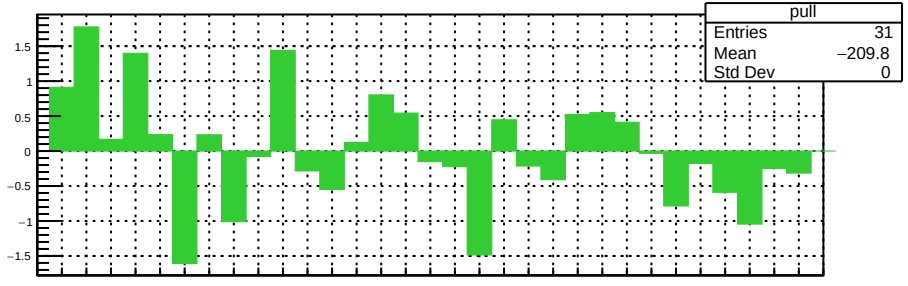

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4747 / 30
p0 505.9 ± 0.6582
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

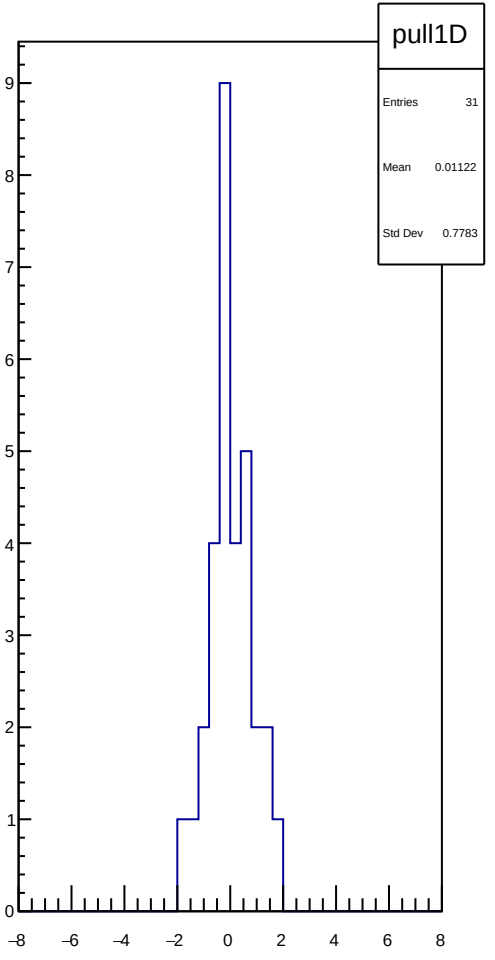

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.02 / 30
p0 −0.2292 ± 0.9308
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 244.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.01285
Std Dev 0.9675
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

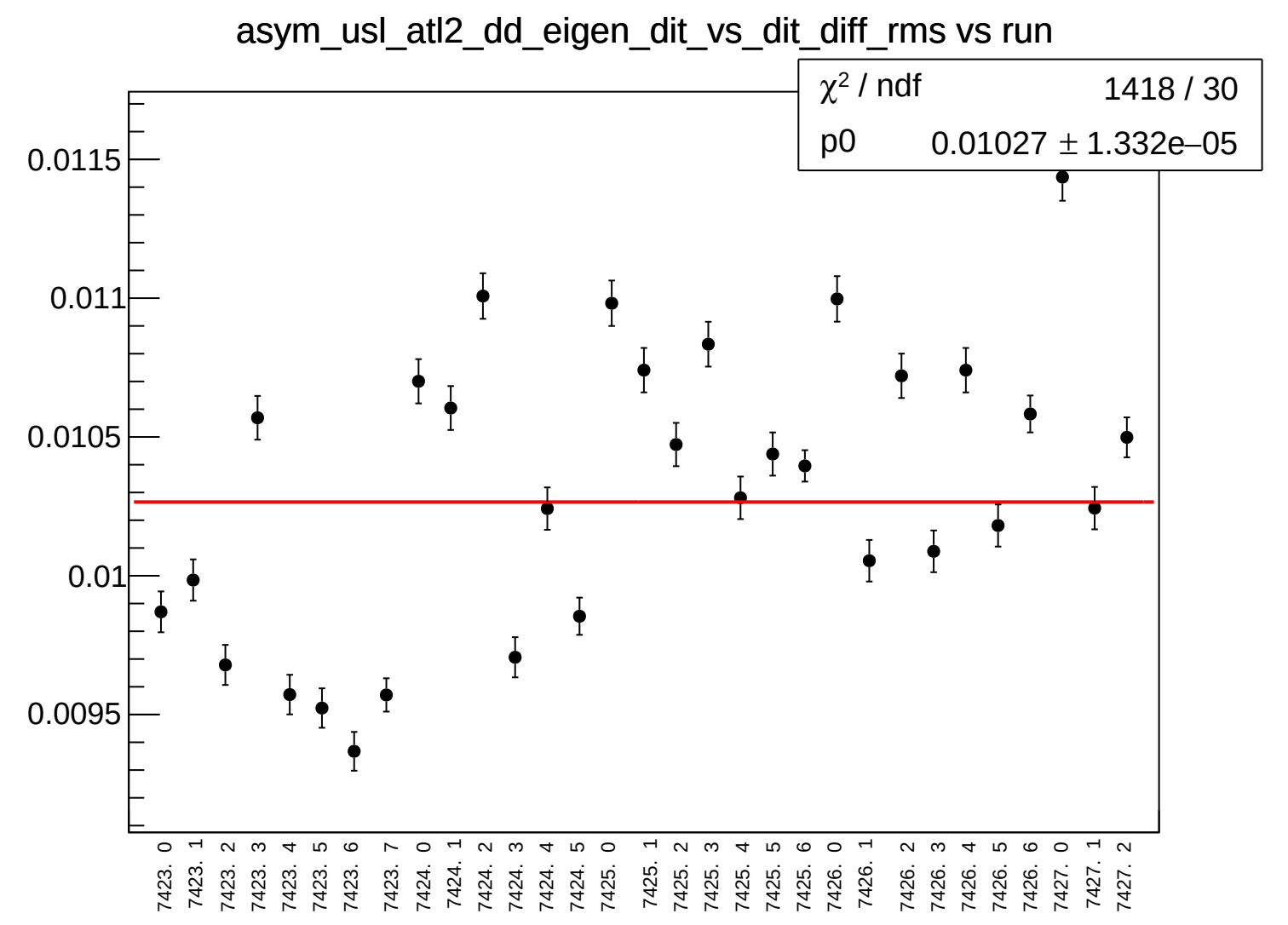

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4747 / 30
p0 505.9 ± 0.6582
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

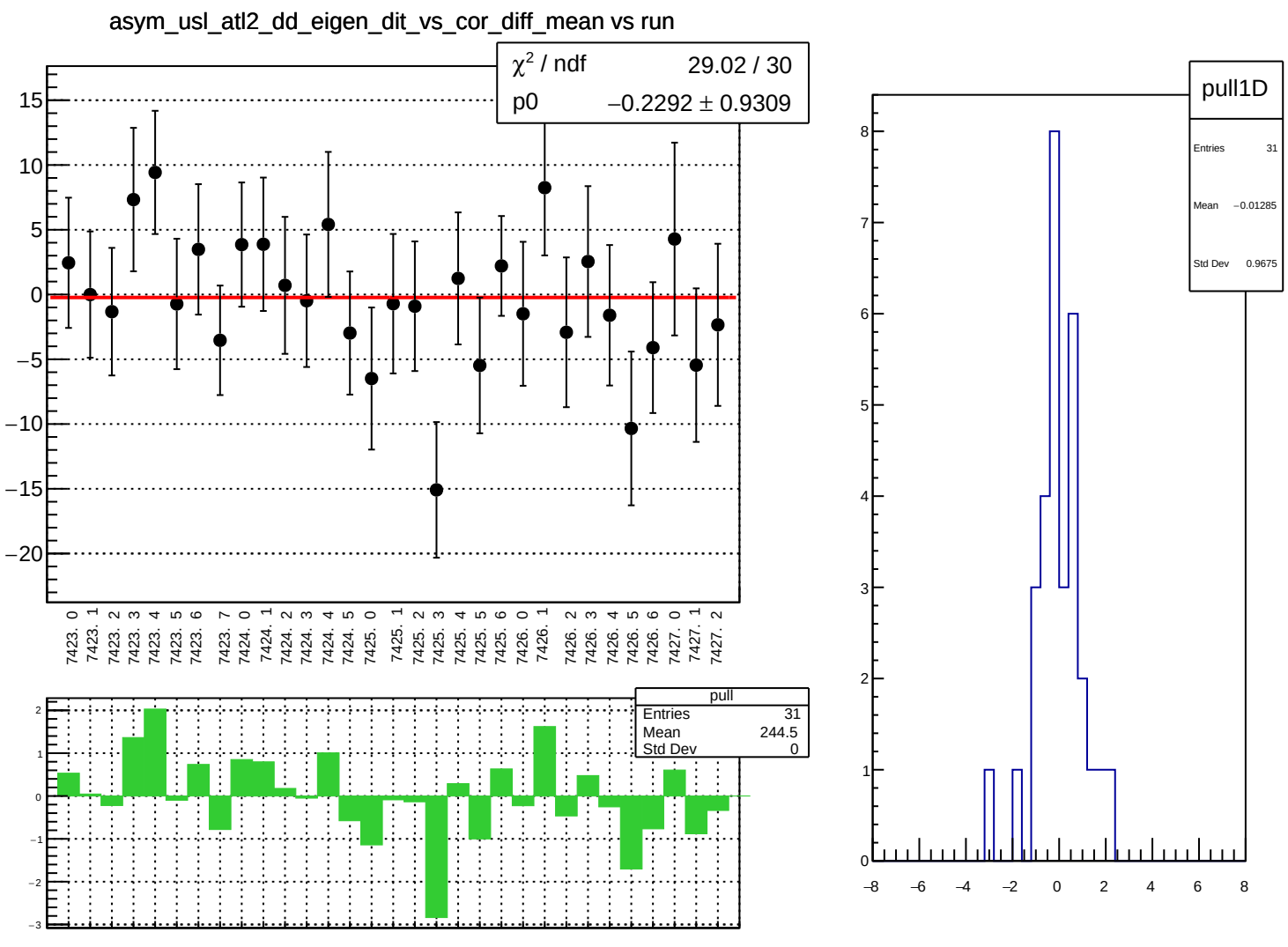
asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run

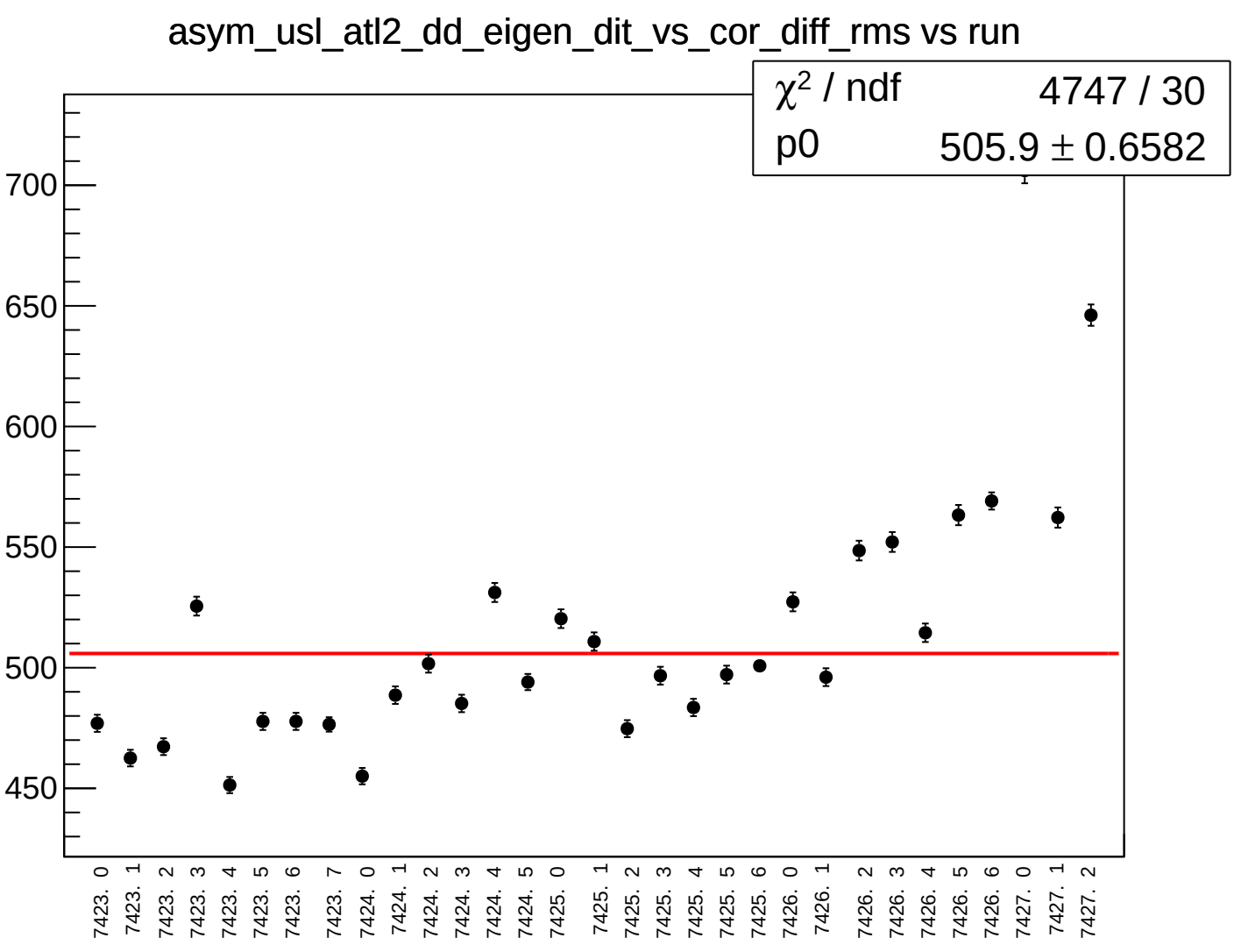


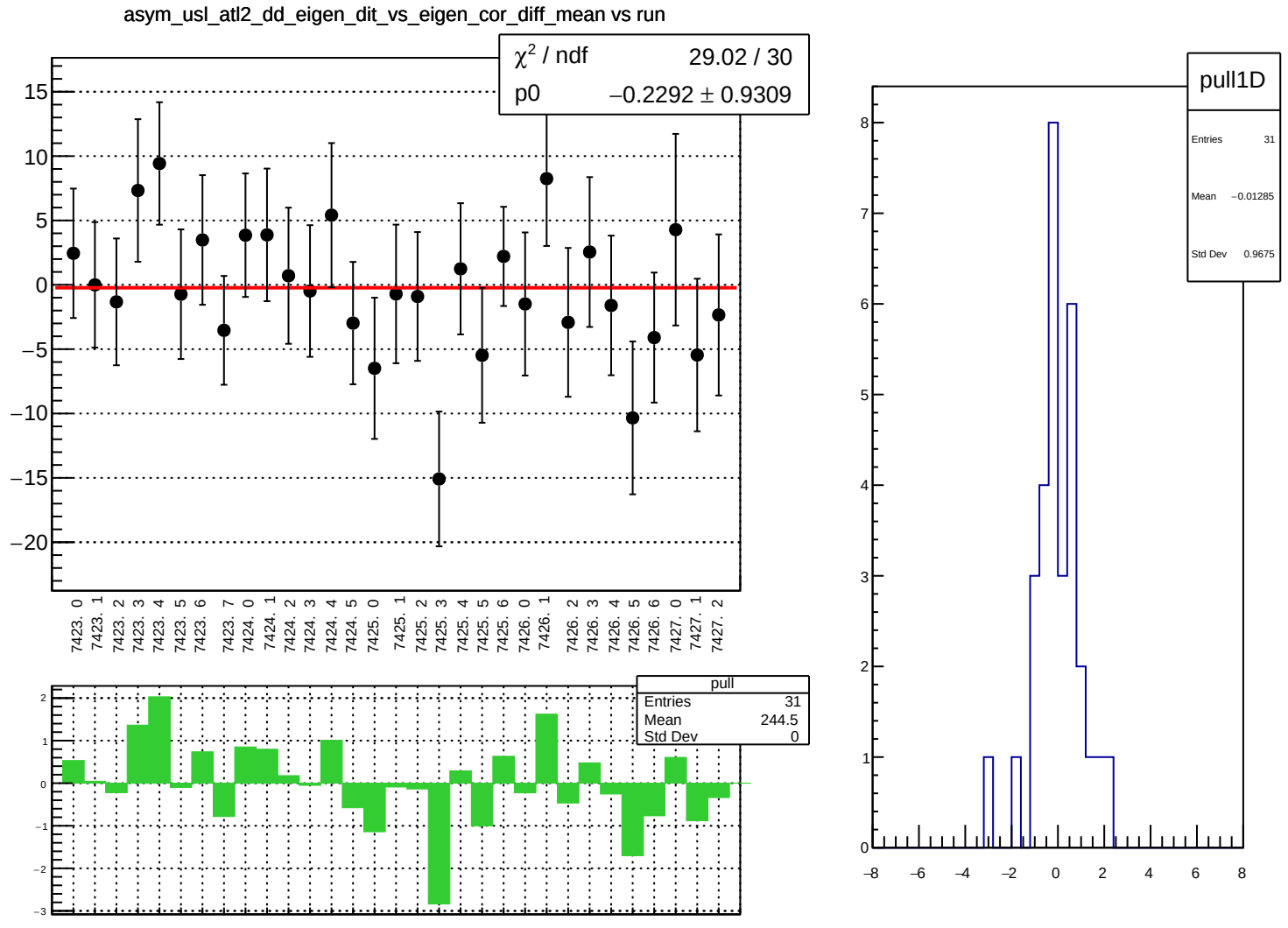


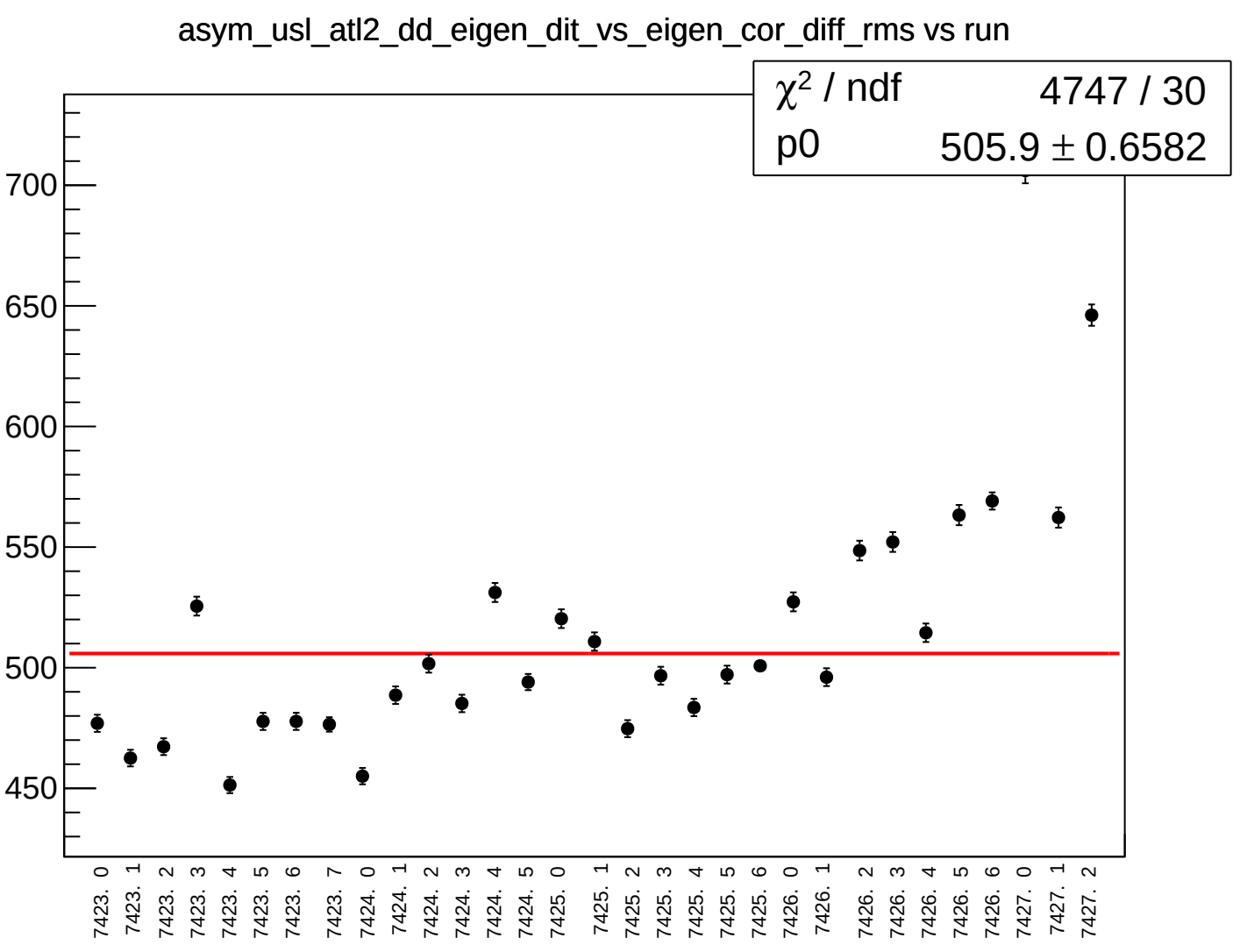


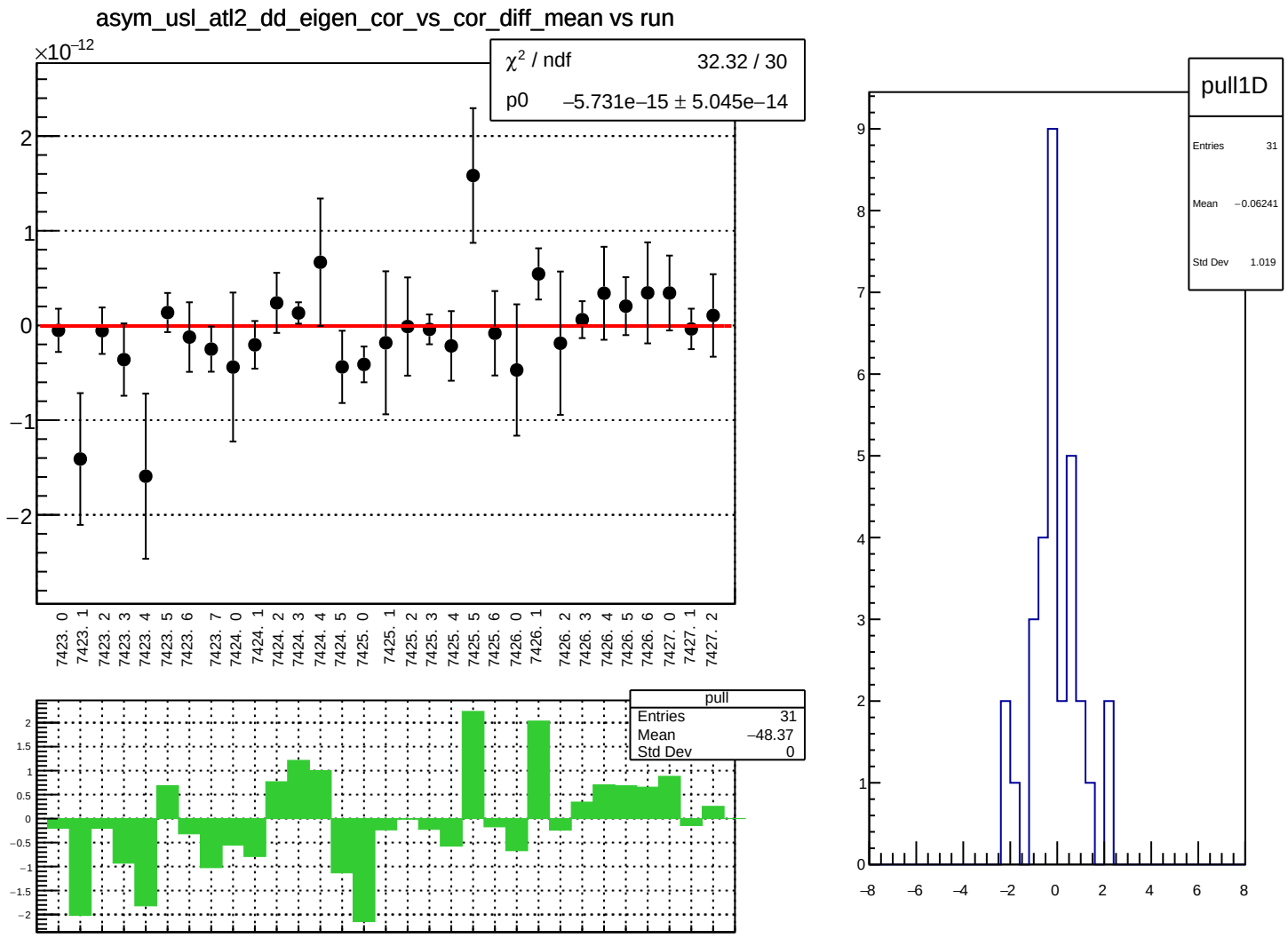

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1418 / 30
p0 0.01027 ± 1.332e–05
0.0115
0.011
0.0105
0.01
0.0095
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

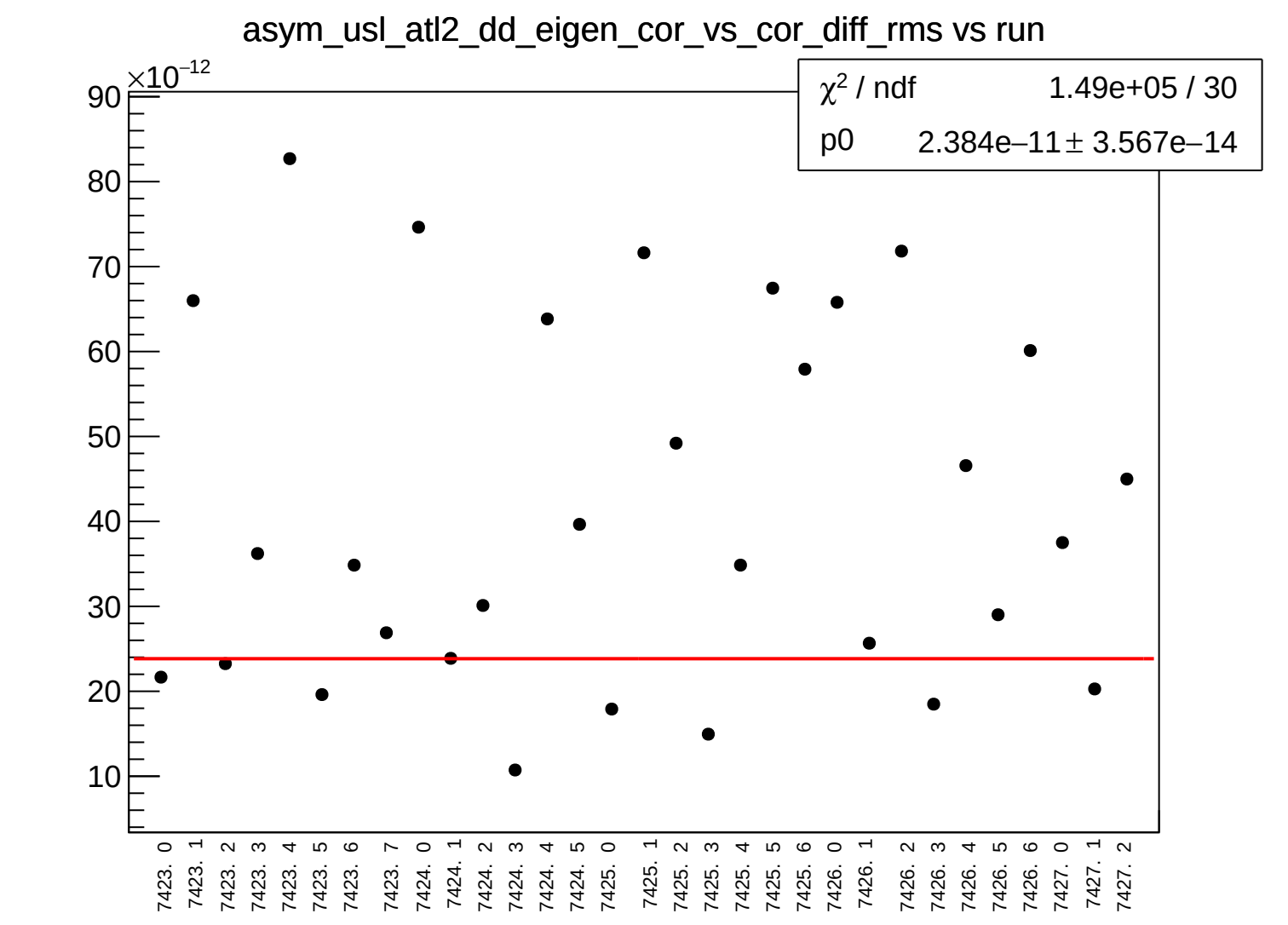

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.02 / 30
p0 −0.2292 ± 0.9309
pull
Entries 31
Mean 244.5
Std Dev 0
pull1D
Entries 31
Mean −0.01285
Std Dev 0.9675

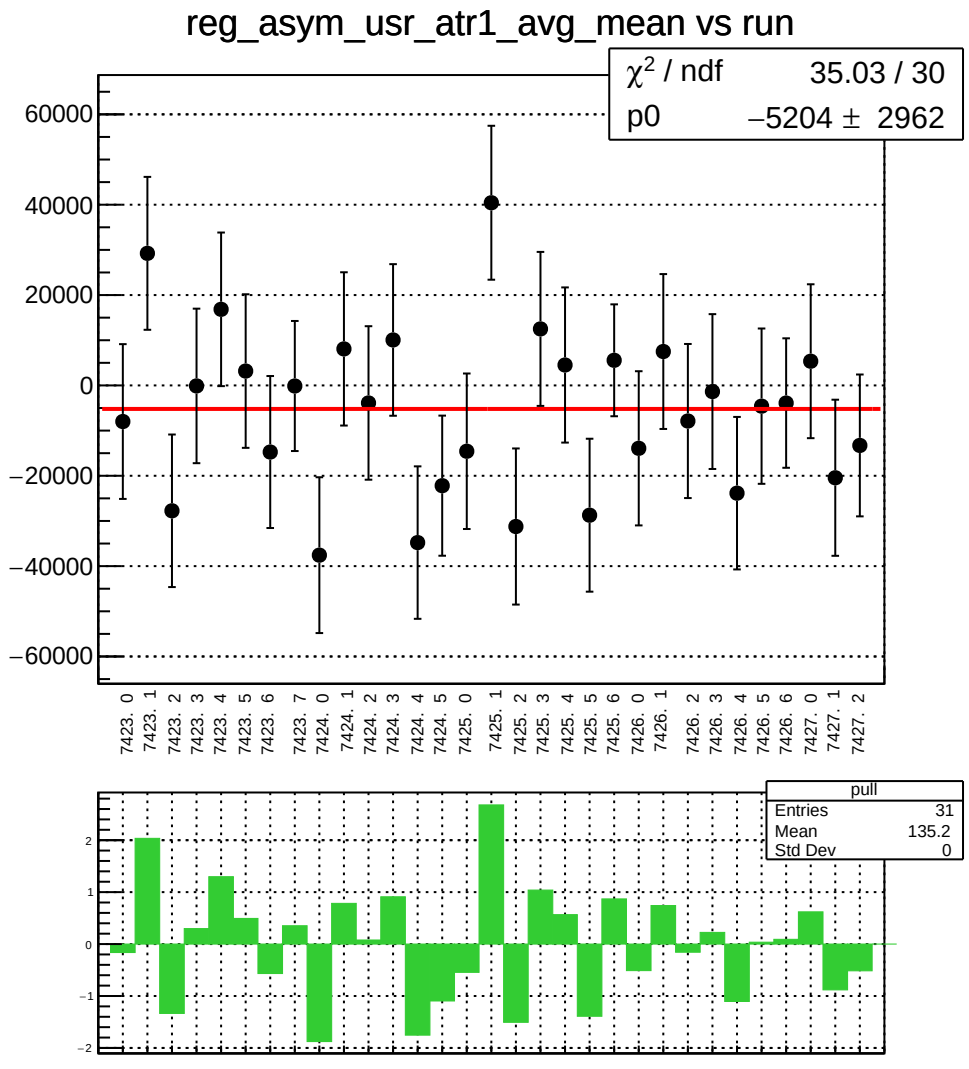

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4747 / 30
p0 505.9 ± 0.6582
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

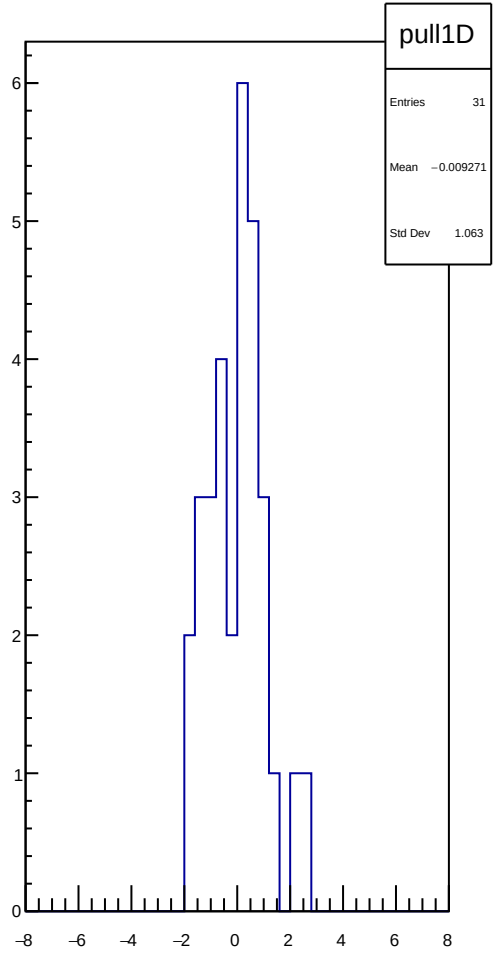

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.02 / 30
p0 −0.2292 ± 0.9309
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 244.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.01285
Std Dev 0.9675
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

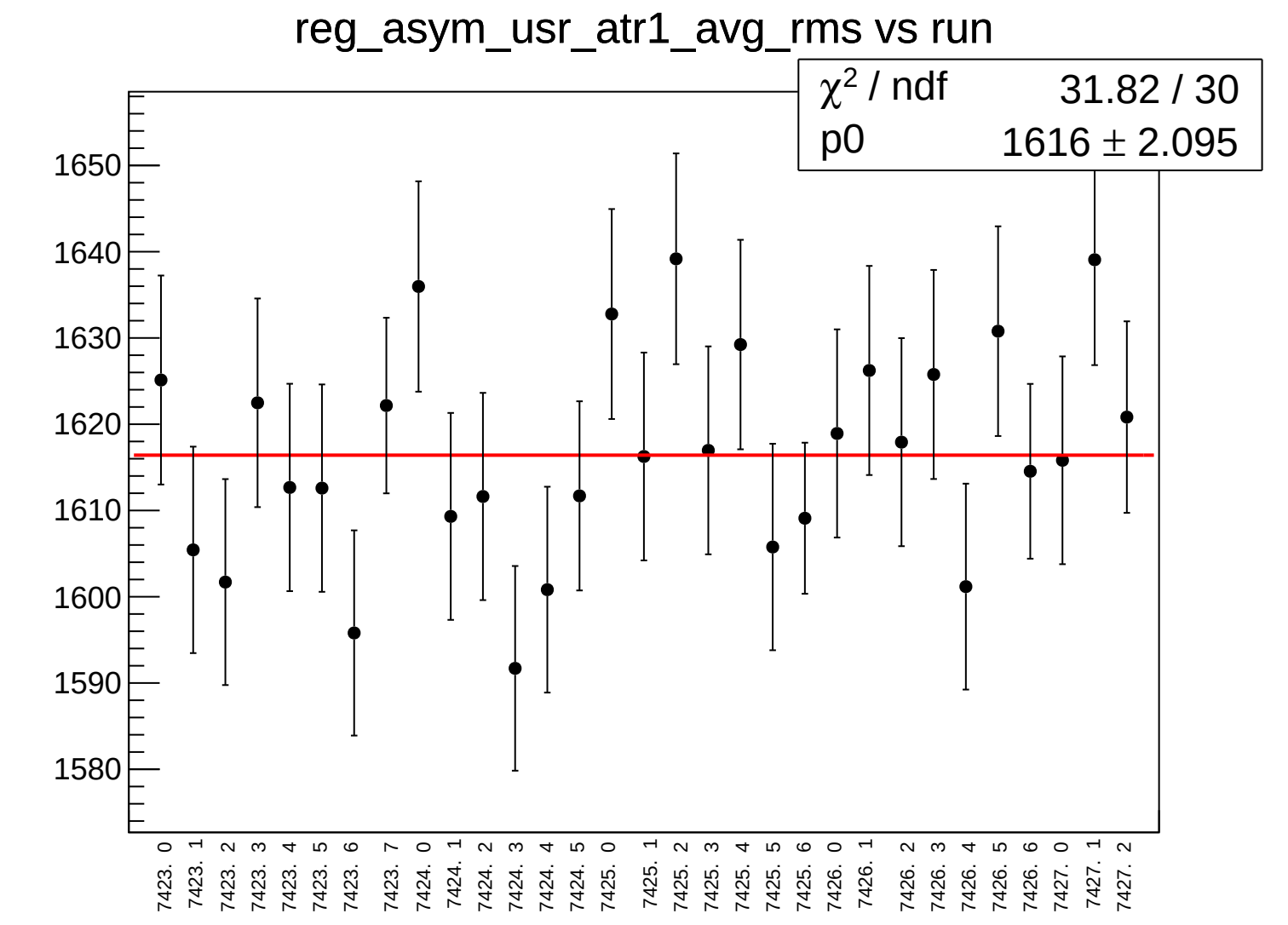

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4747 / 30
p0 505.9 ± 0.6582
700
650
600
550
500
450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

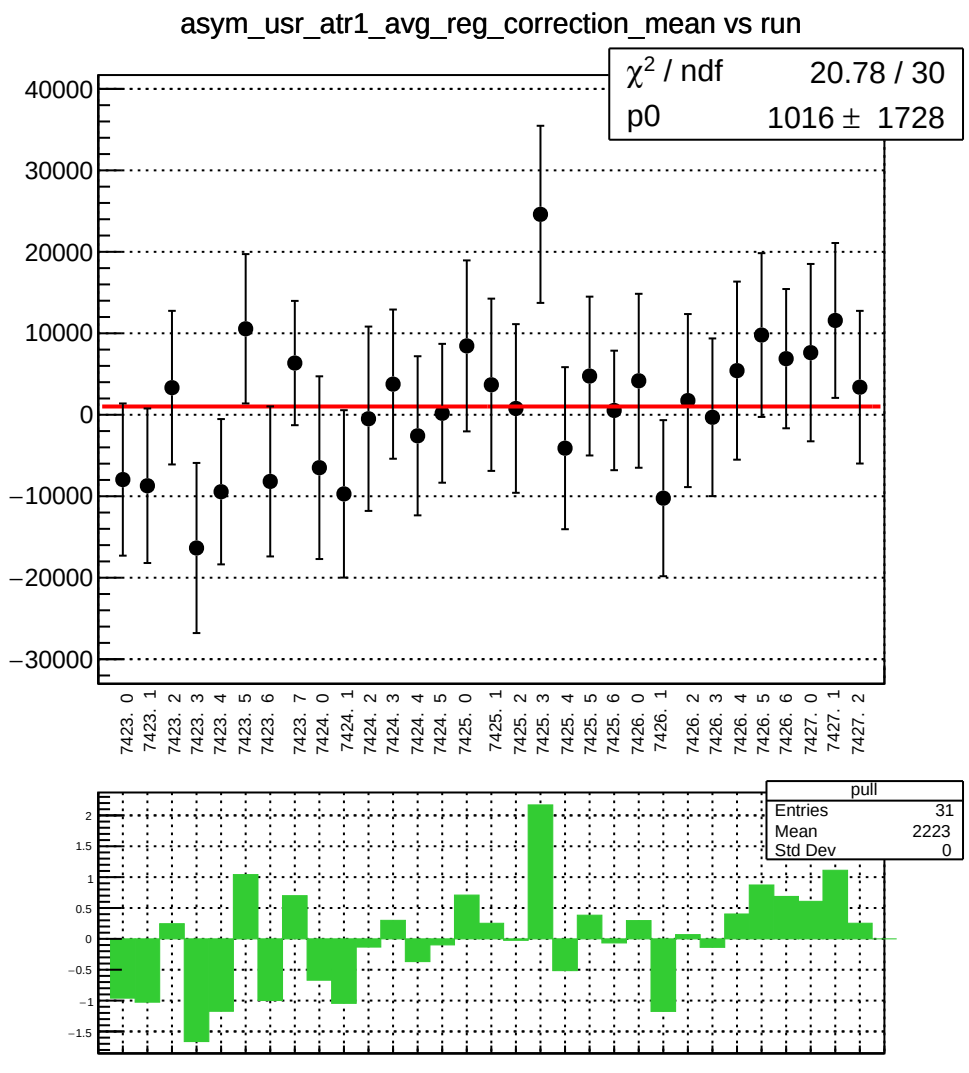

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.32 / 30
p0 −5.731e−15 ± 5.045e−14
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −48.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.06241
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

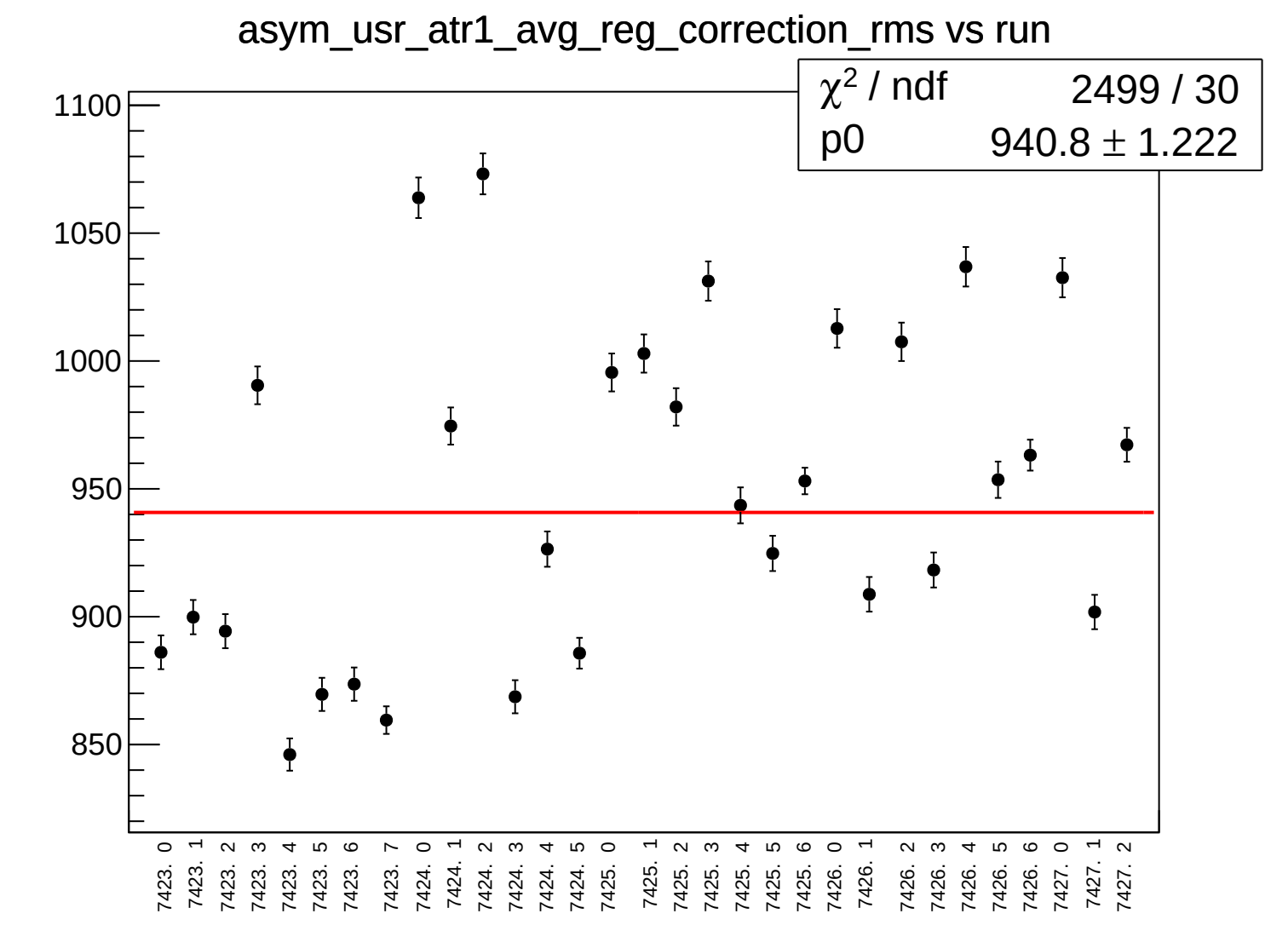

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.49e+05 / 30
p0 2.384e−11 ± 3.567e−14
90
80
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

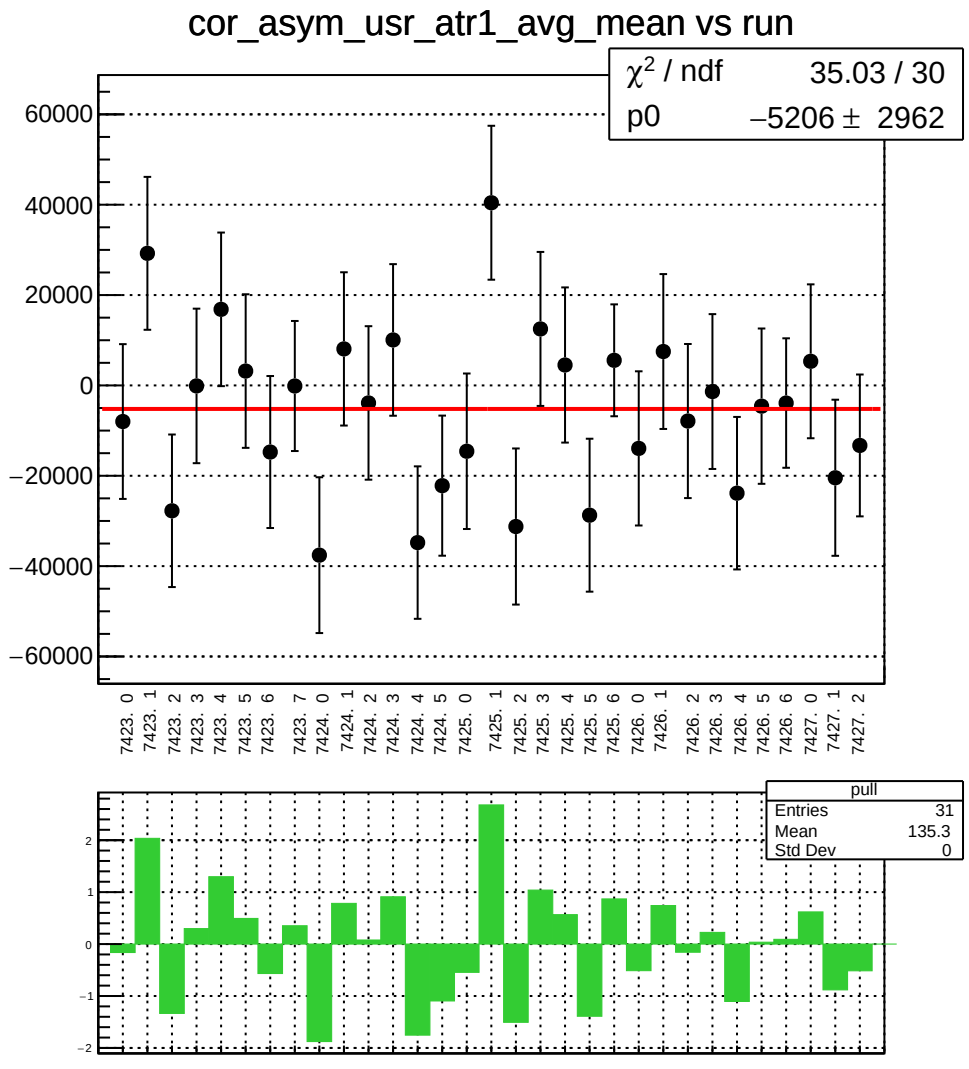

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 35.03 / 30
p0 −5204 ± 2962
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 135.2
Std Dev 0
2
1
0
−1
−2

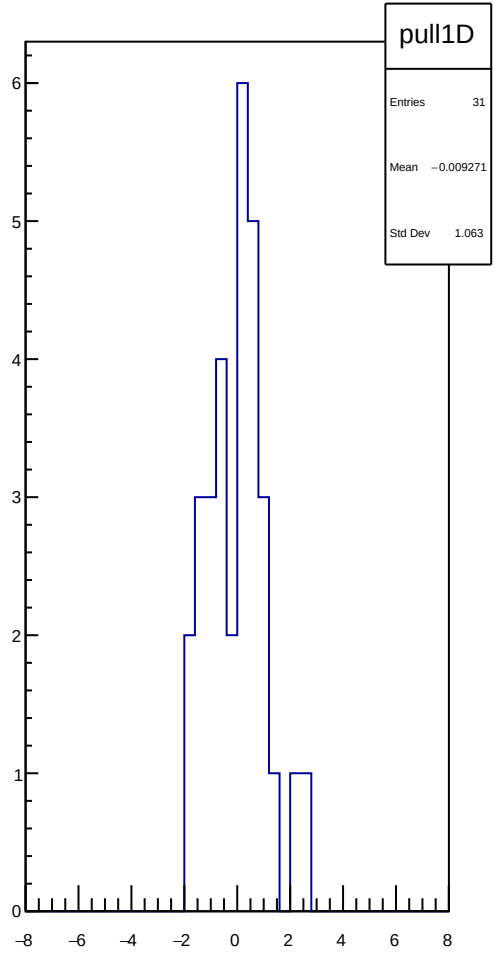

pull1D
Entries 31
Mean −0.009271
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

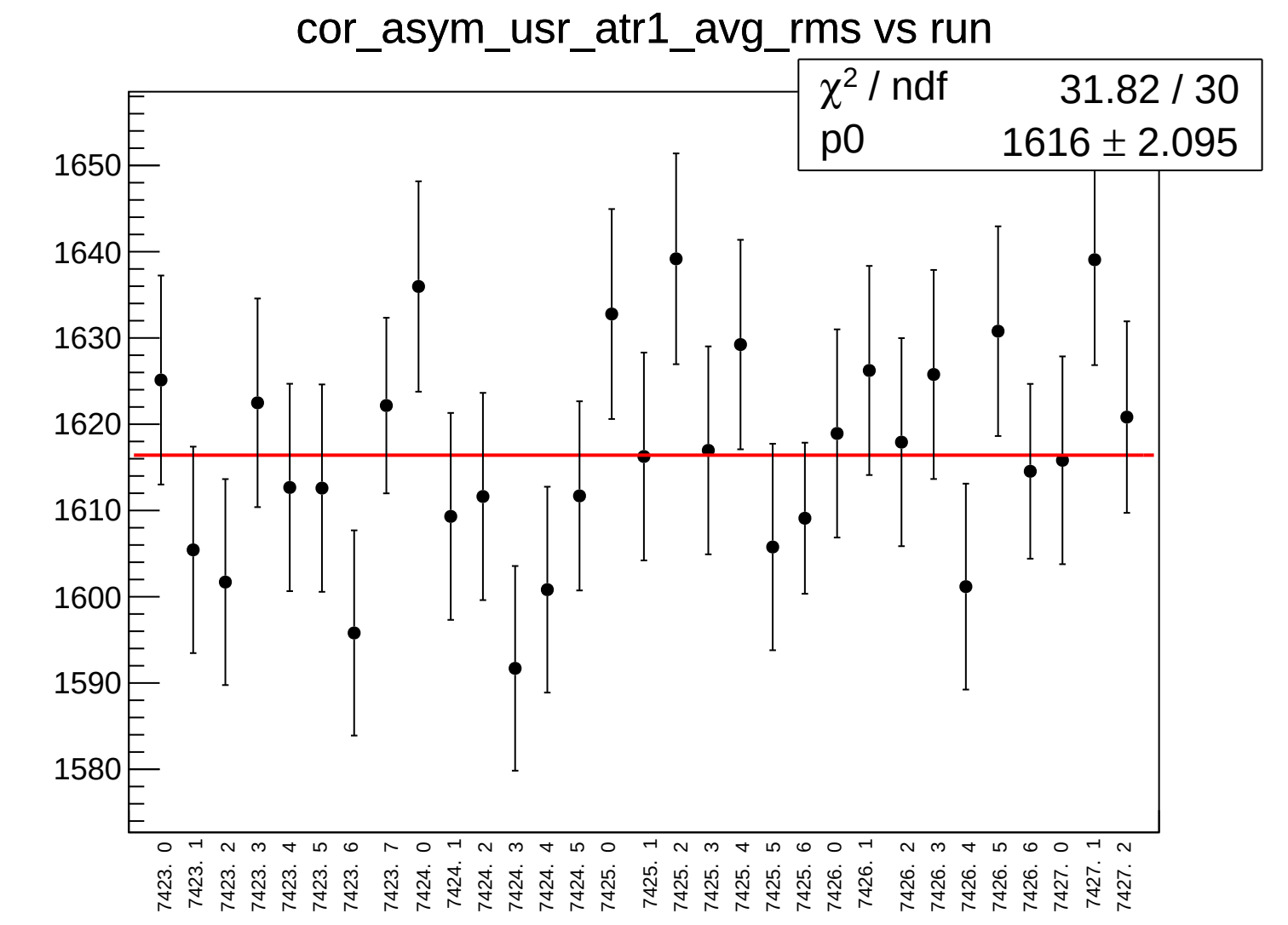

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 31.82 / 30
p0 1616 ± 2.095
1650
1640
1630
1620
1610
1600
1590
1580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

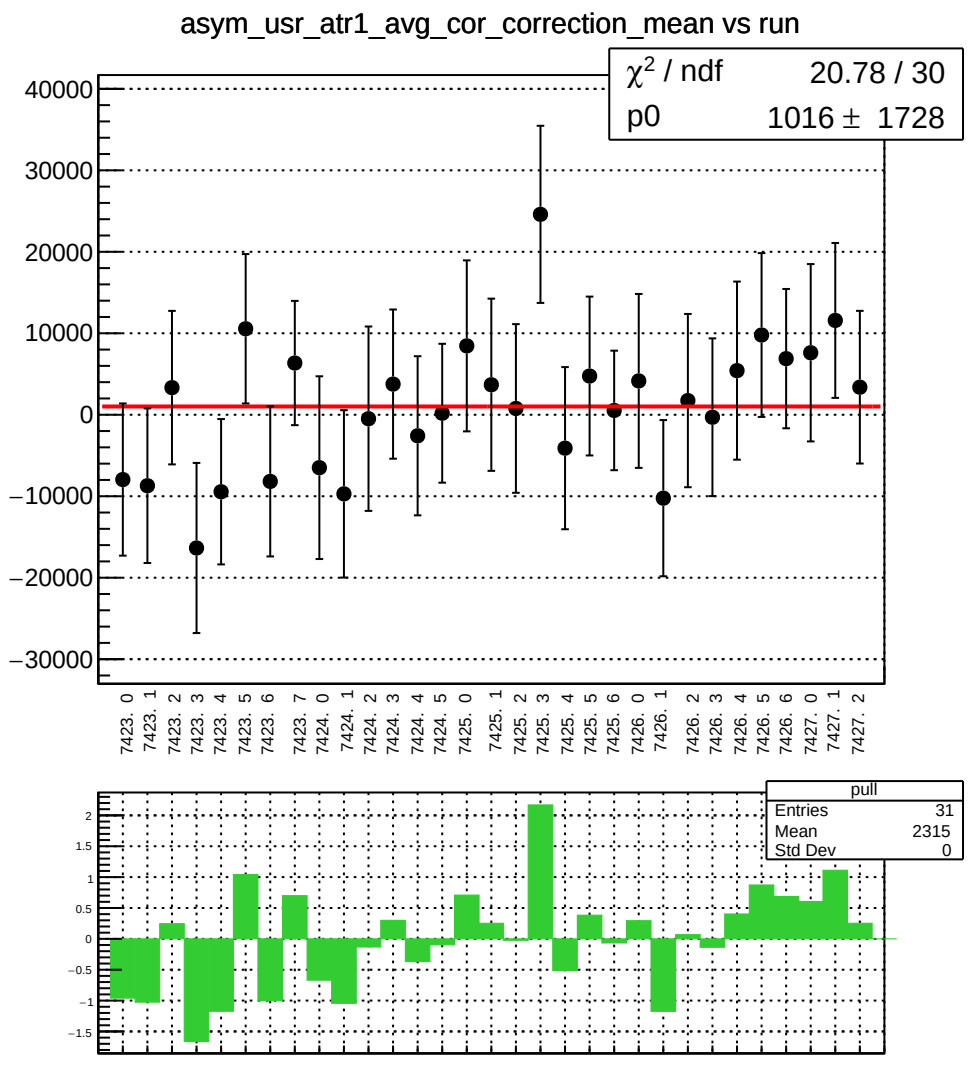

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 20.78 / 30
p0 1016 ± 1728
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 2223
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.001584
Std Dev 0.8188
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

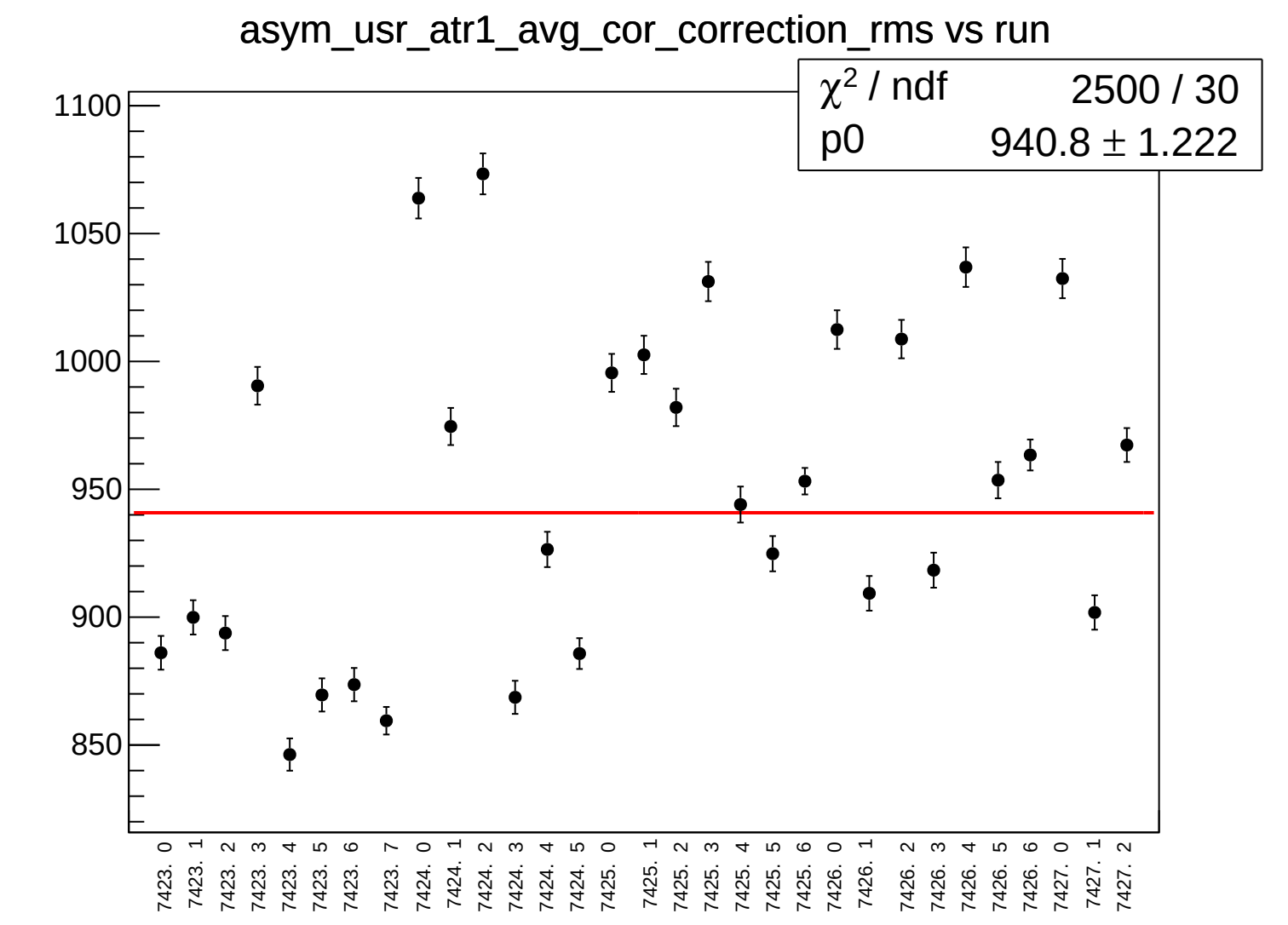

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 2499 / 30
p0 940.8 ± 1.222
1100
1050
1000
950
900
850
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

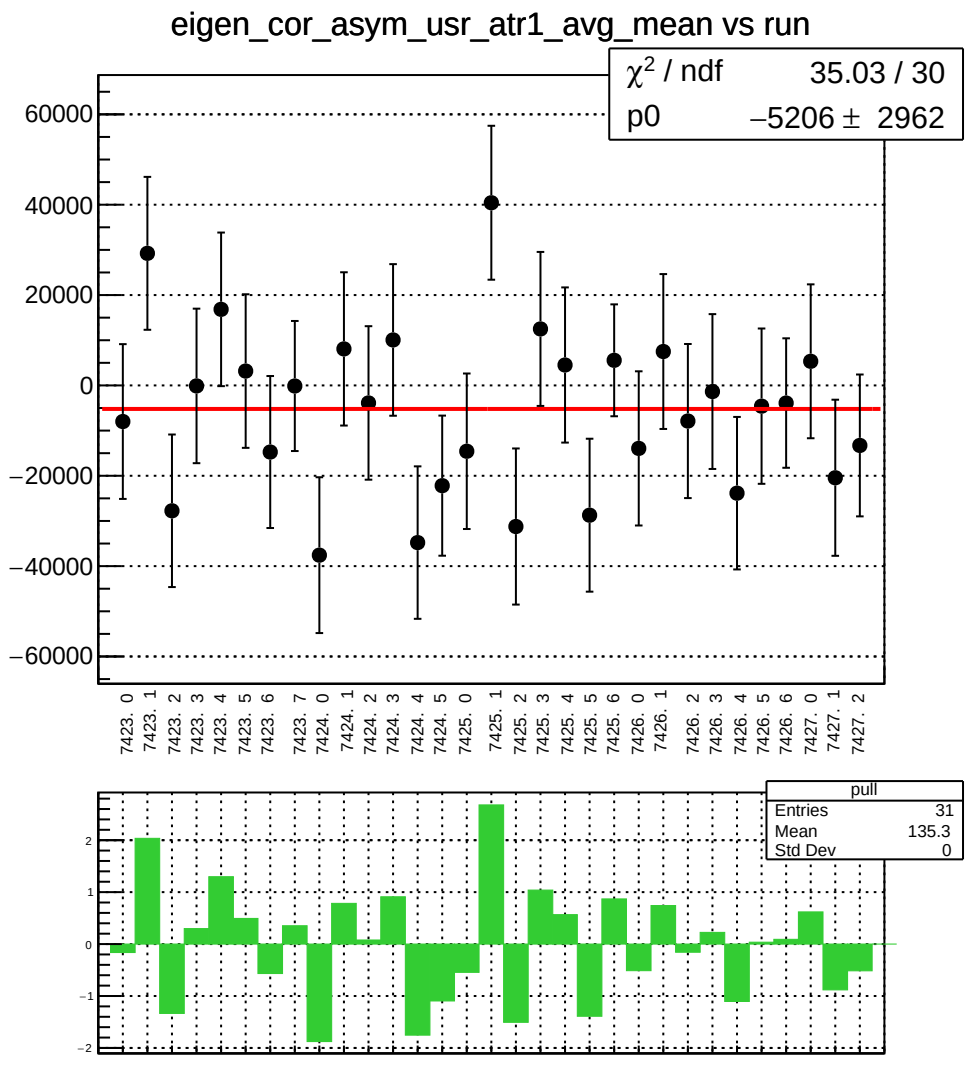

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 35.03 / 30
p0 −5206 ± 2962
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 135.3
Std Dev 0
2
1
0
−1
−2

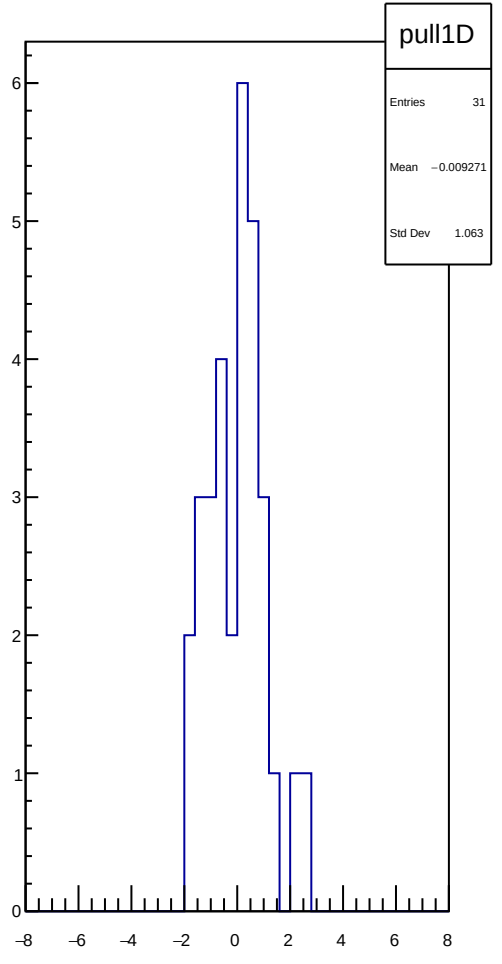

pull1D
Entries 31
Mean −0.009271
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

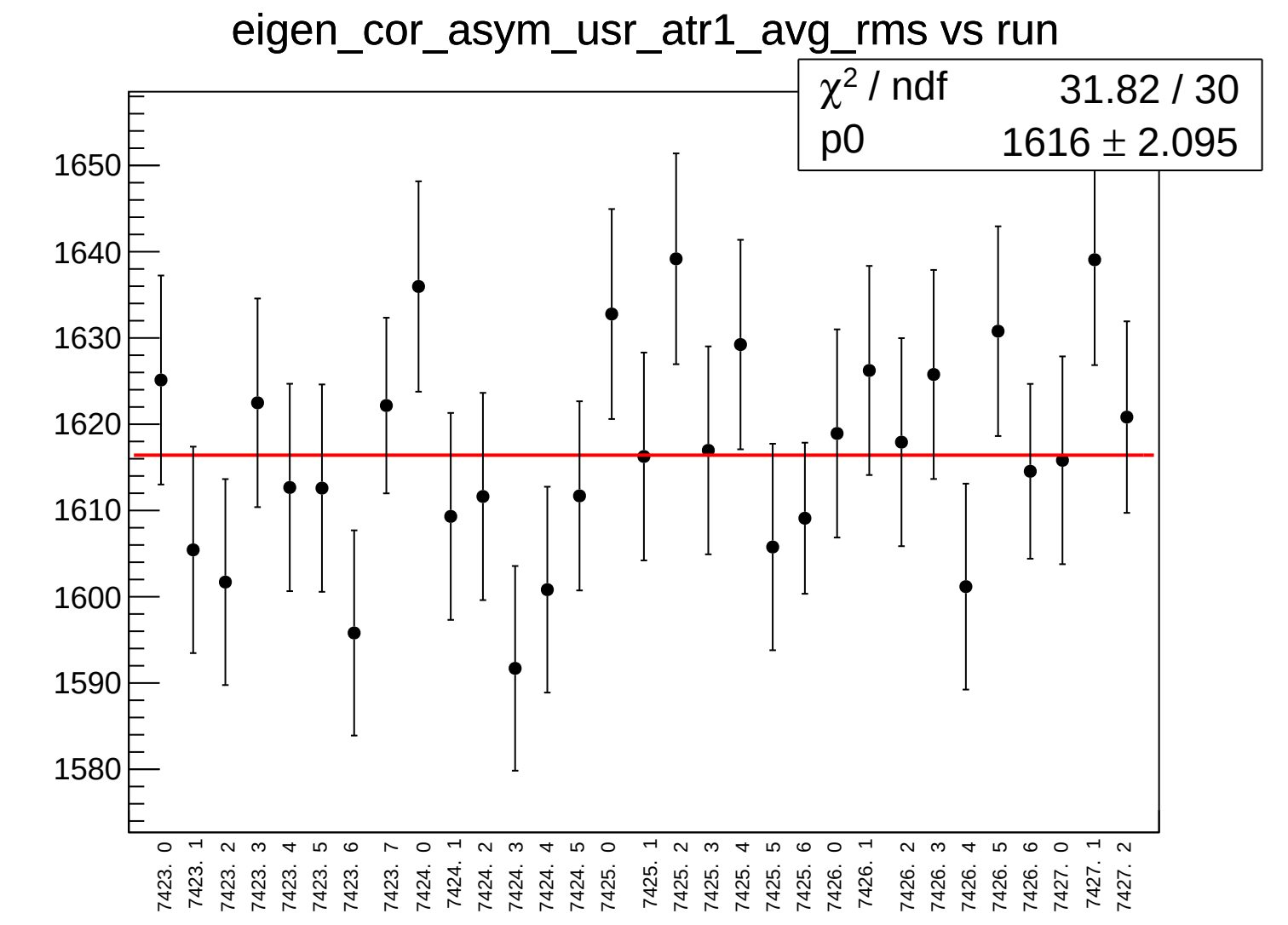

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 31.82 / 30
p0 1616 ± 2.095
1650
1640
1630
1620
1610
1600
1590
1580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

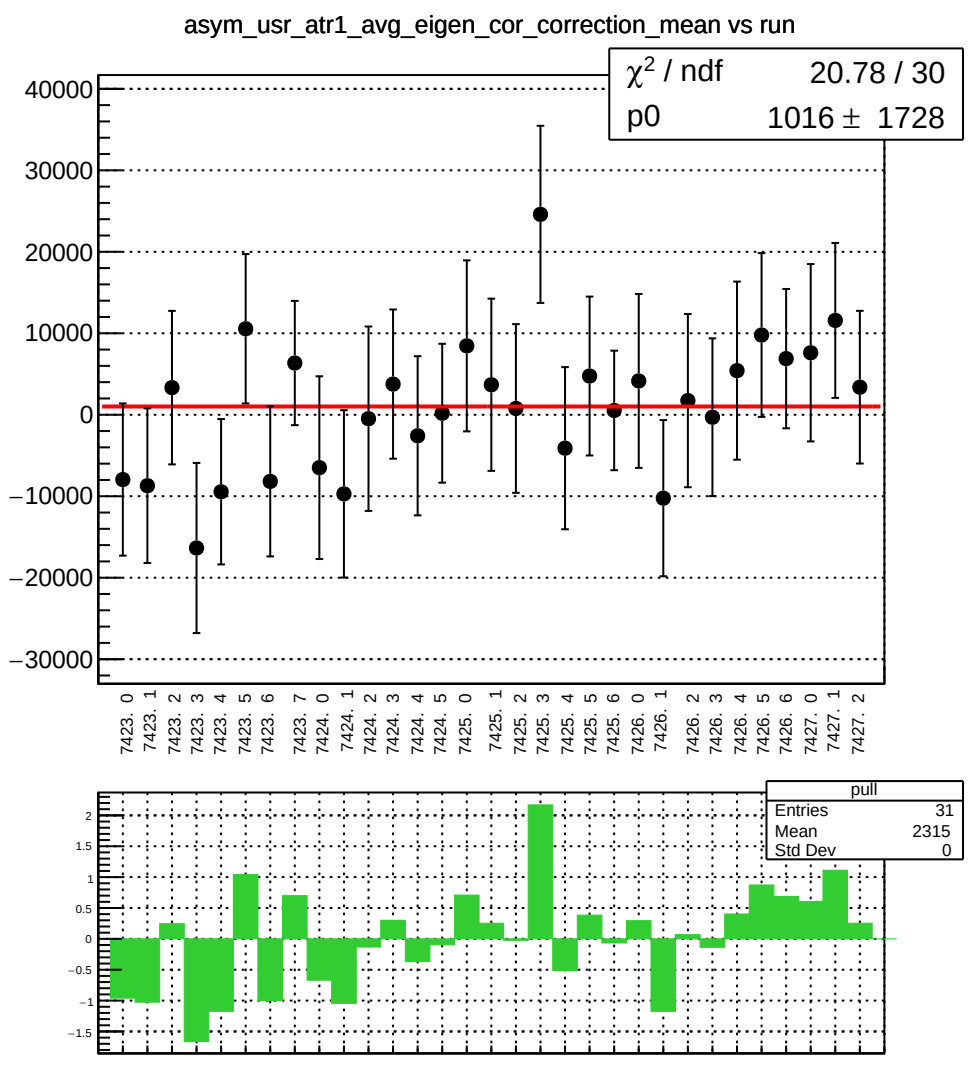

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 20.78 / 30
p0 1016 ± 1728
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 2315
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.00152
Std Dev 0.8186
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

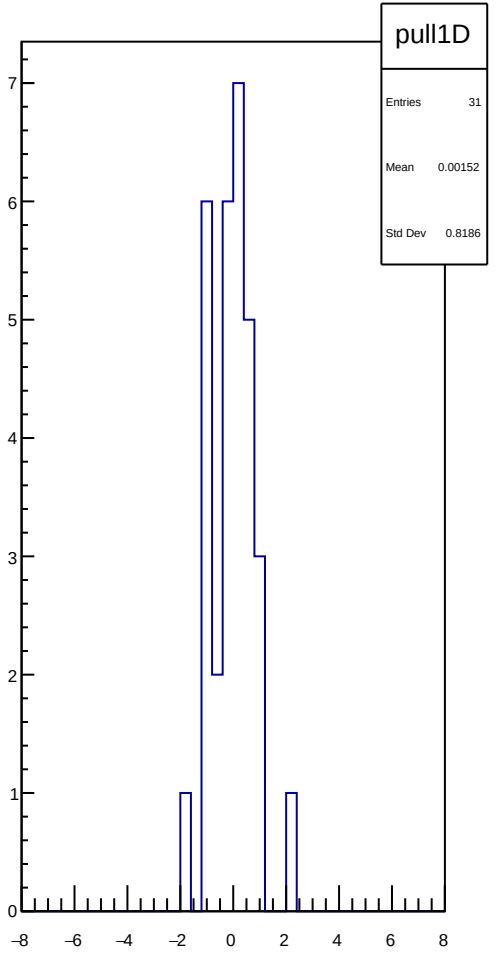

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 2500 / 30
p0 940.8 ± 1.222
1100
1050
1000
950
900
850
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

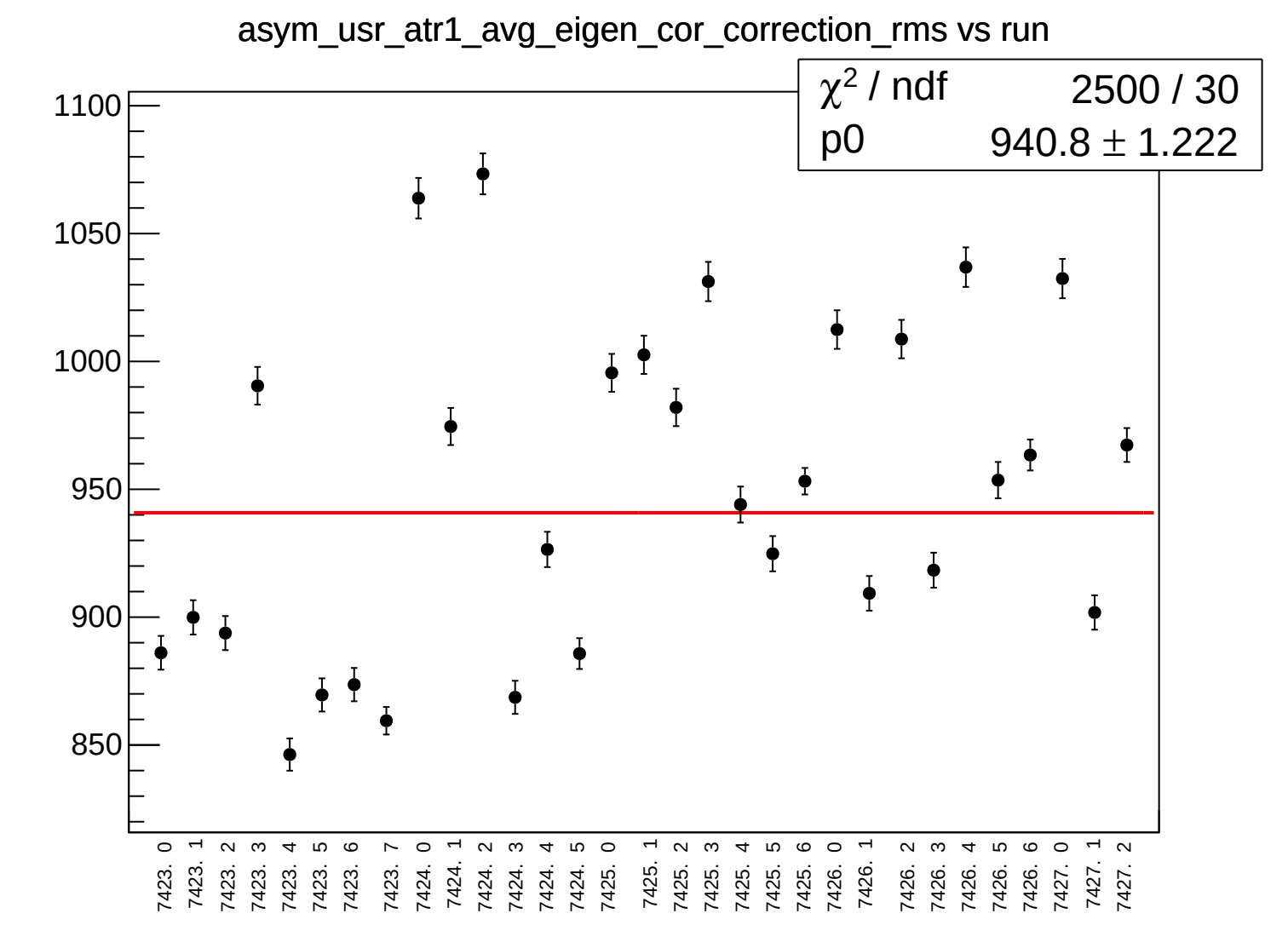

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 35.03 / 30
p0 −5206 ± 2962
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 135.3
Std Dev 0
2
1
0
−1
−2

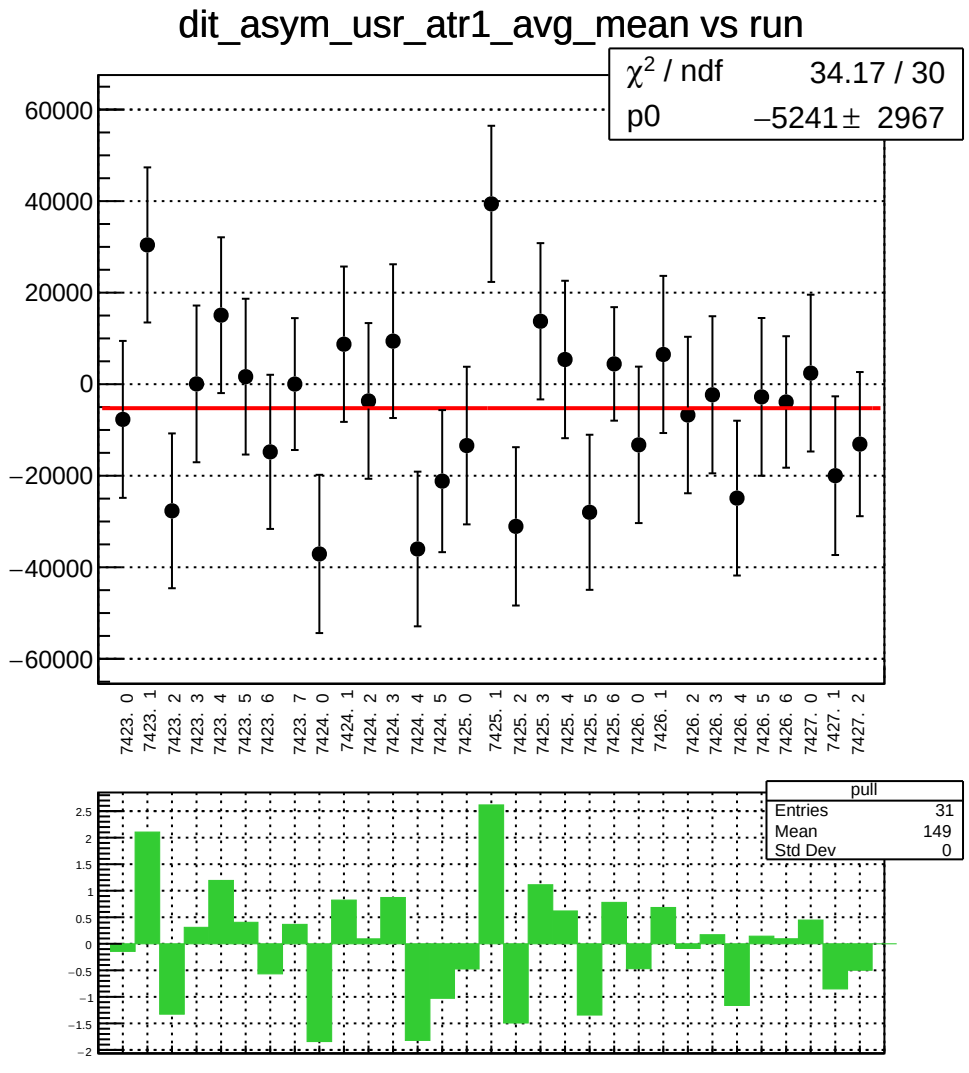

pull1D
Entries 31
Mean −0.009271
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

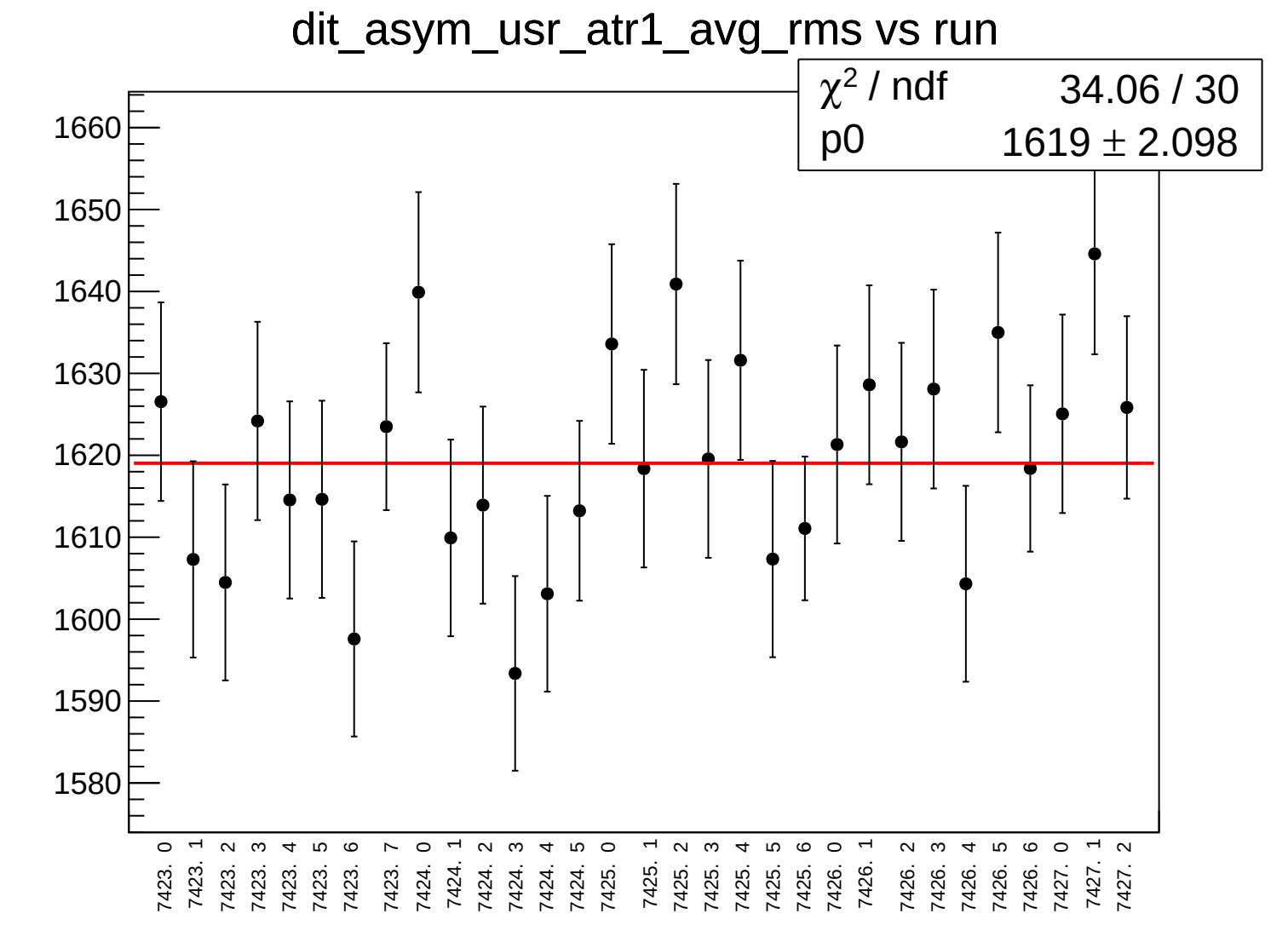

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 31.82 / 30
p0 1616 ± 2.095
1650
1640
1630
1620
1610
1600
1590
1580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

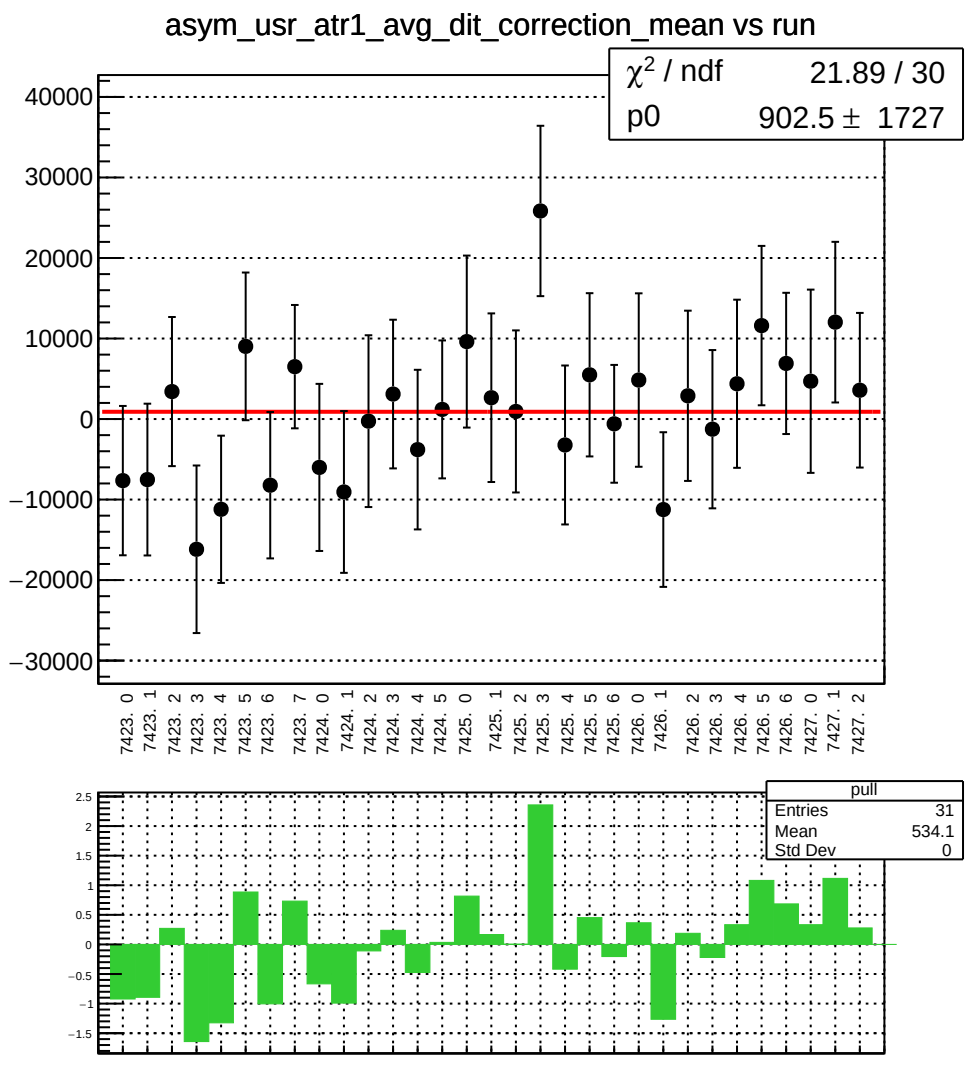

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 20.78 / 30
p0 1016 ± 1728
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 2315
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

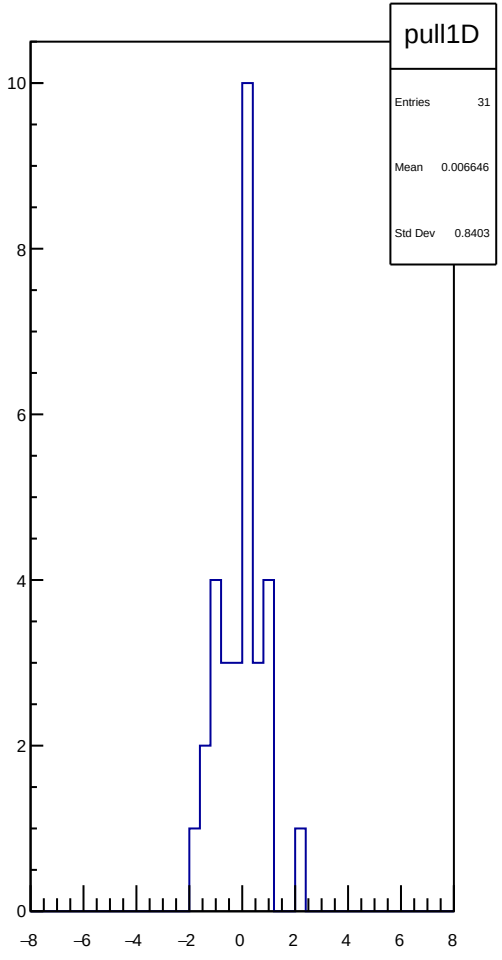

pull1D
Entries 31
Mean 0.00152
Std Dev 0.8186
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

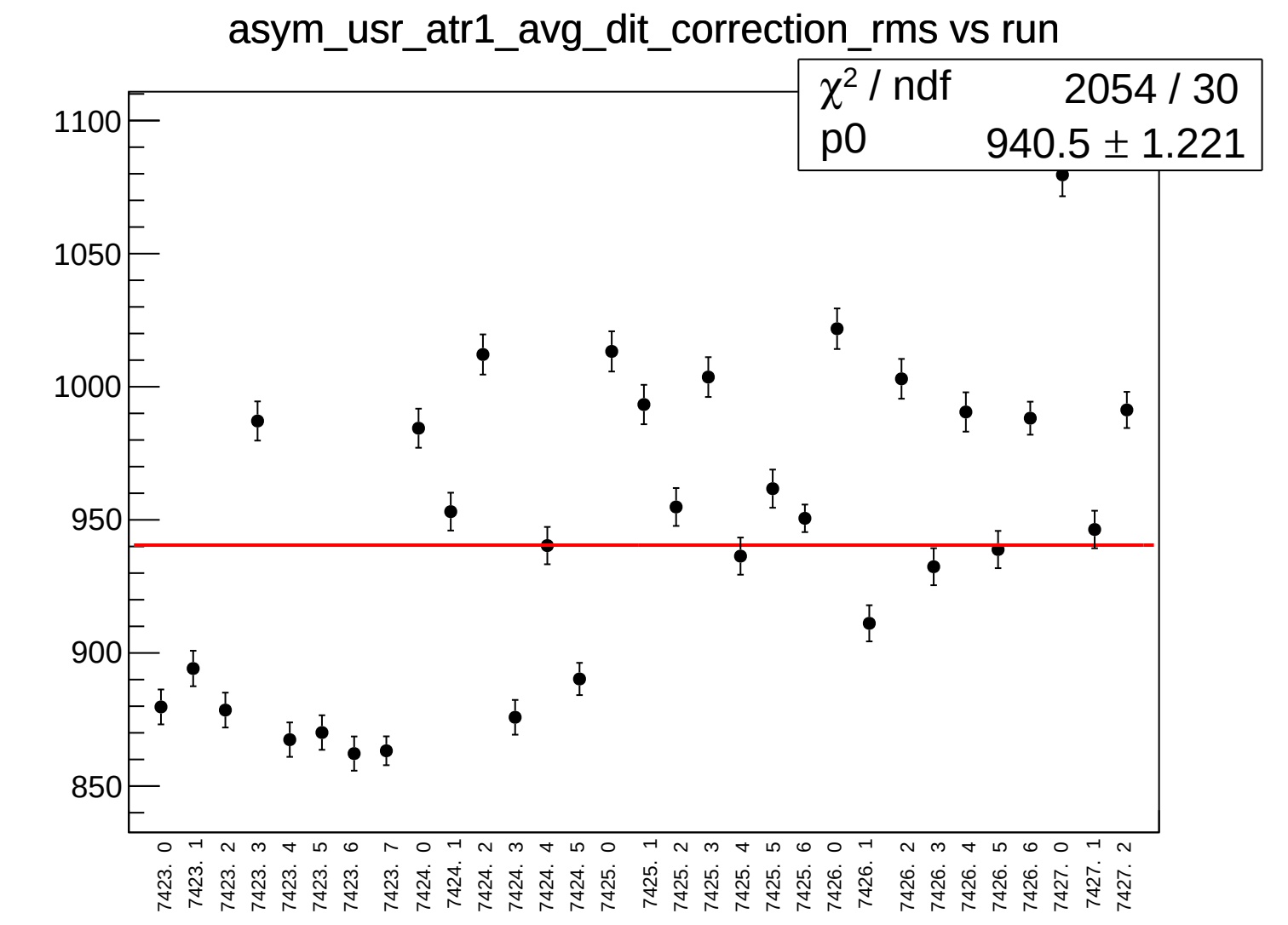

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2500 / 30
p0 940.8 ± 1.222
1100
1050
1000
950
900
850
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

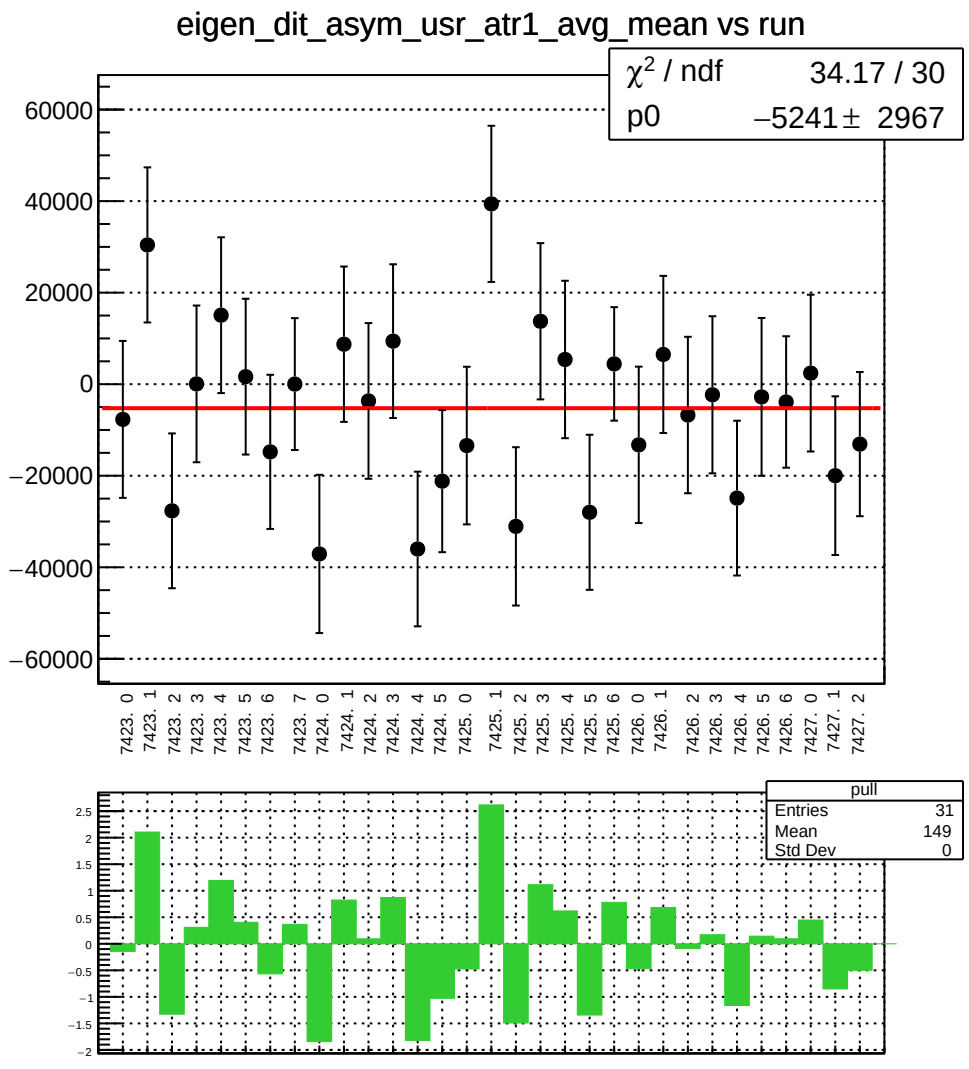

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 34.17 / 30
p0 −5241 ± 2967
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 149
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.008547
Std Dev 1.05
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

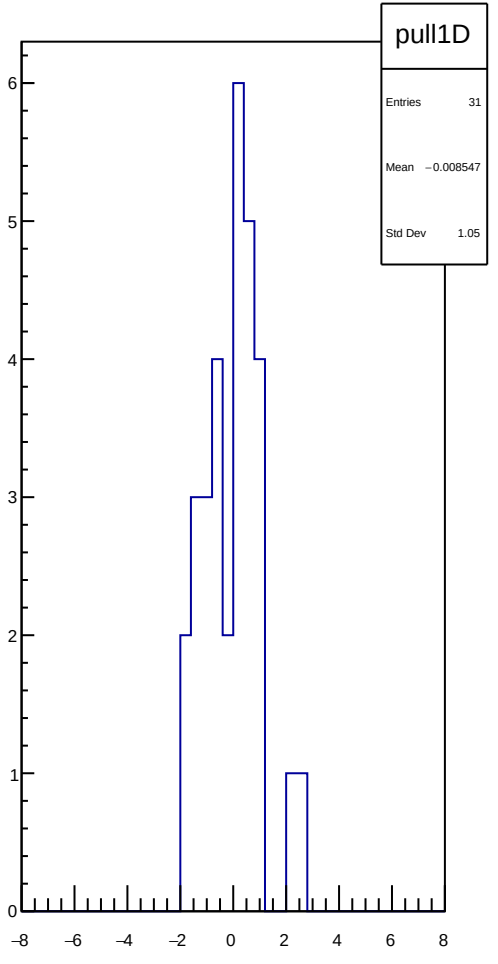

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 34.06 / 30
p0 1619 ± 2.098
1660
1650
1640
1630
1620
1610
1600
1590
1580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

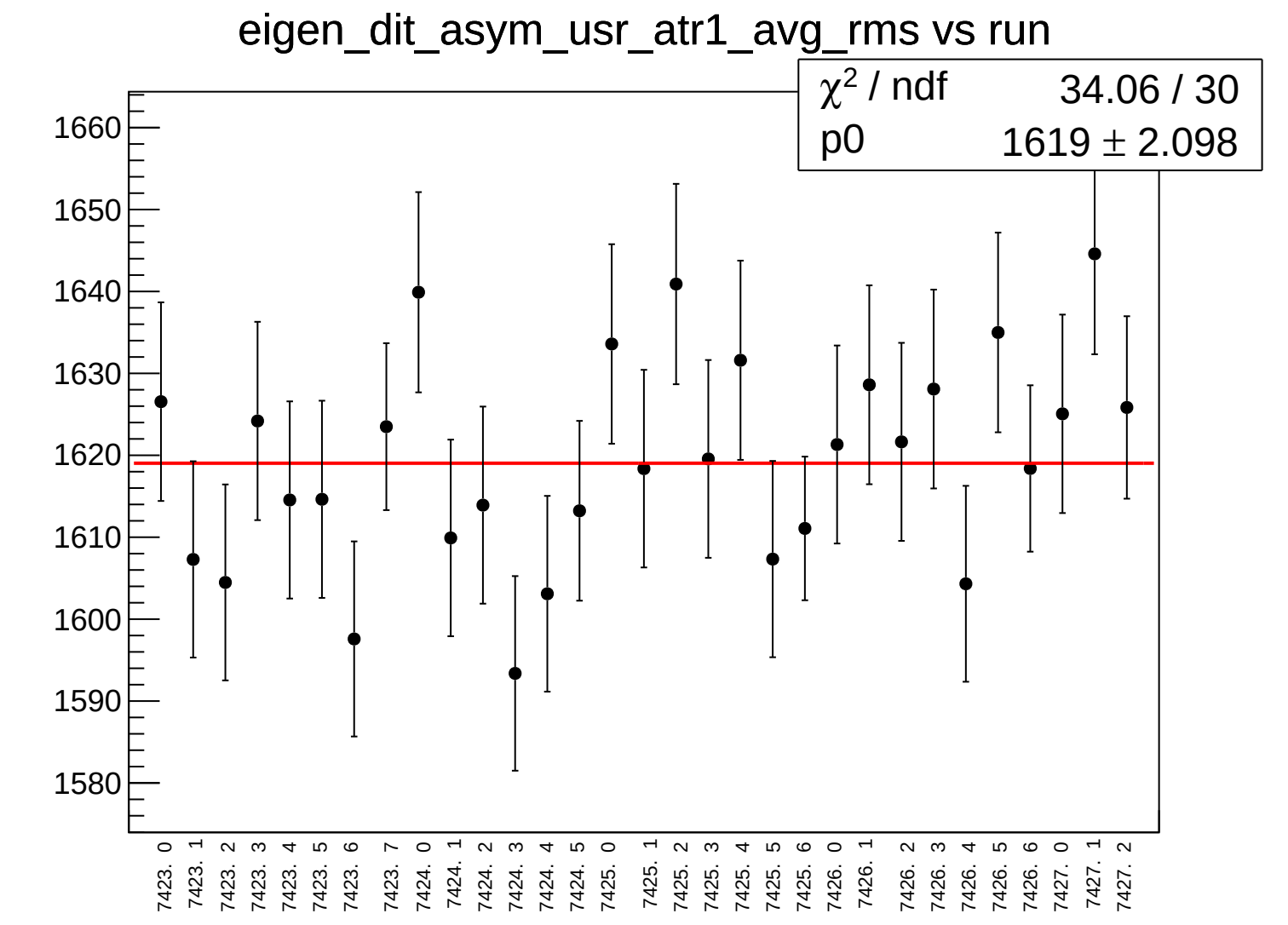

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 21.89 / 30
p0 902.5 ± 1727
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 534.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

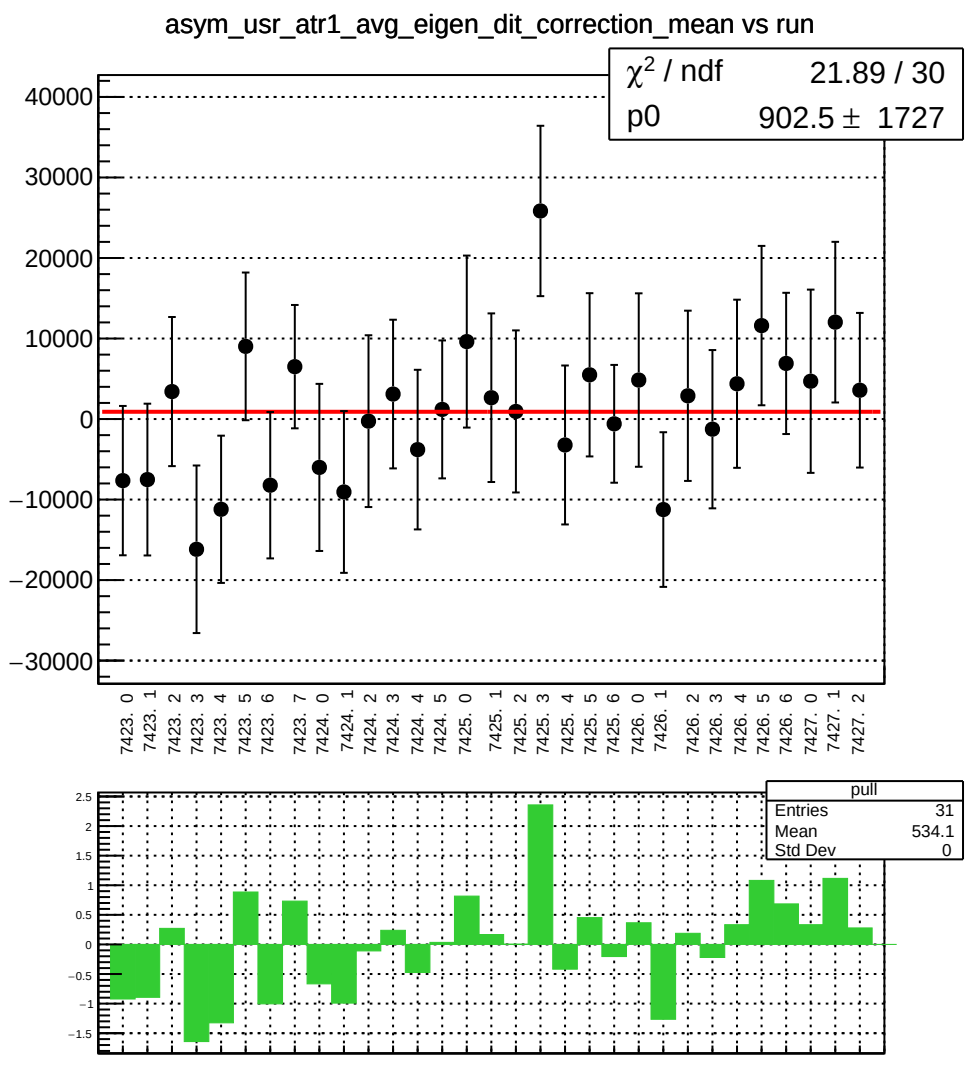

pull1D
Entries 31
Mean 0.006646
Std Dev 0.8403
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

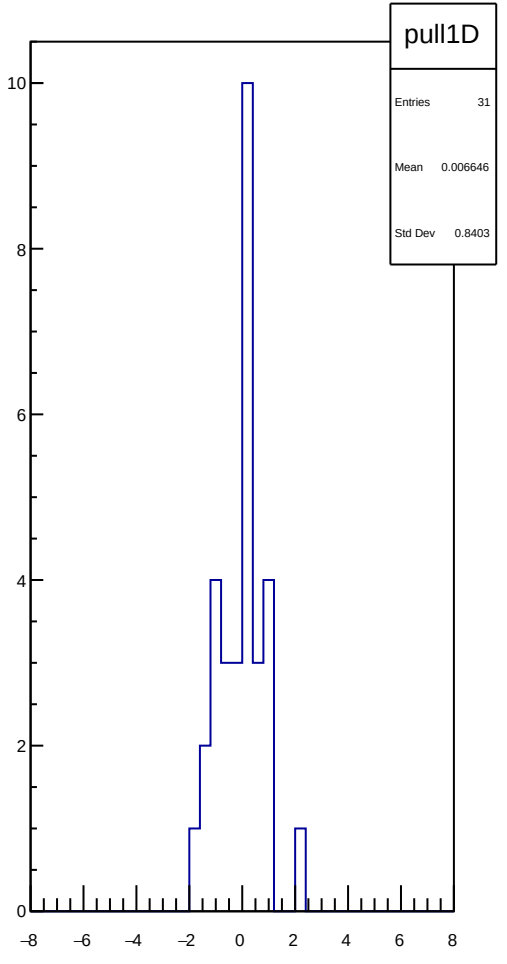

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2054 / 30
p0 940.5 ± 1.221
1100
1050
1000
950
900
850
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

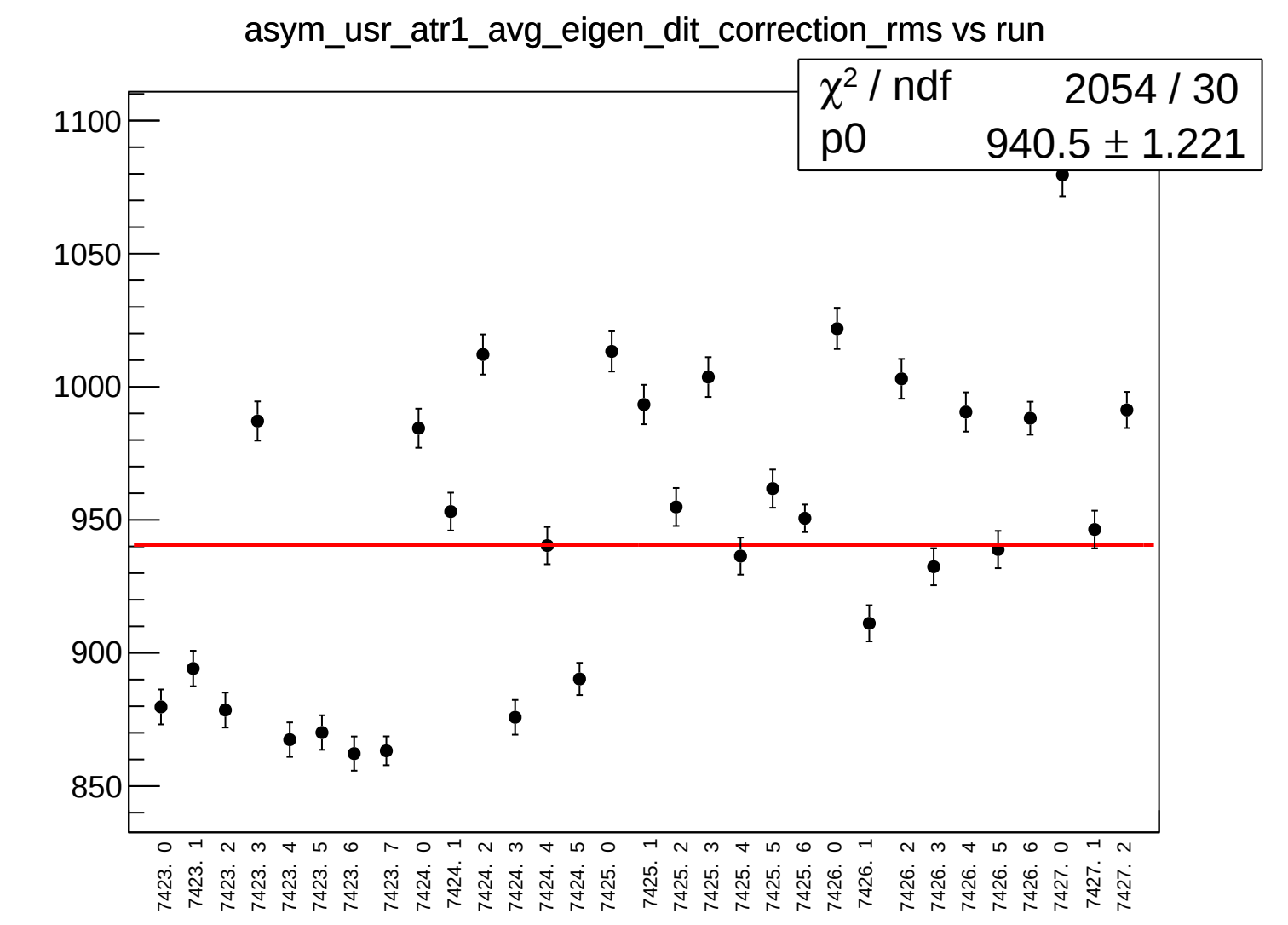

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 34.17 / 30
p0 −5241 ± 2967
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 149
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

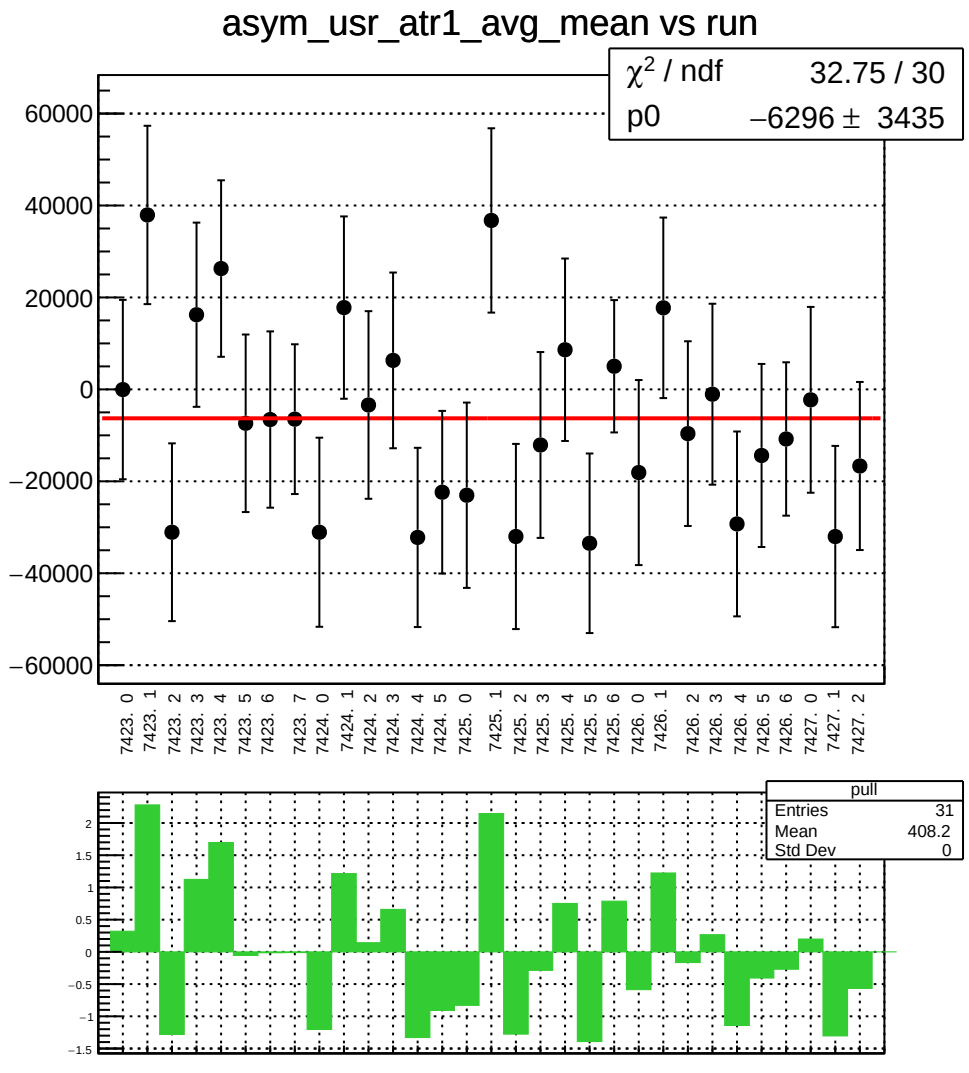

pull1D
Entries 31
Mean −0.008547
Std Dev 1.05
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

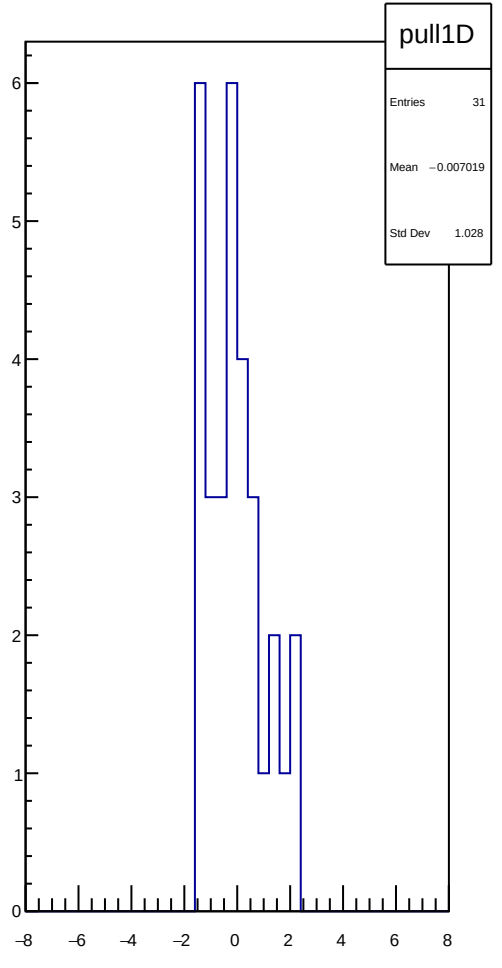

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 34.06 / 30
p0 1619 ± 2.098
1660
1650
1640
1630
1620
1610
1600
1590
1580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

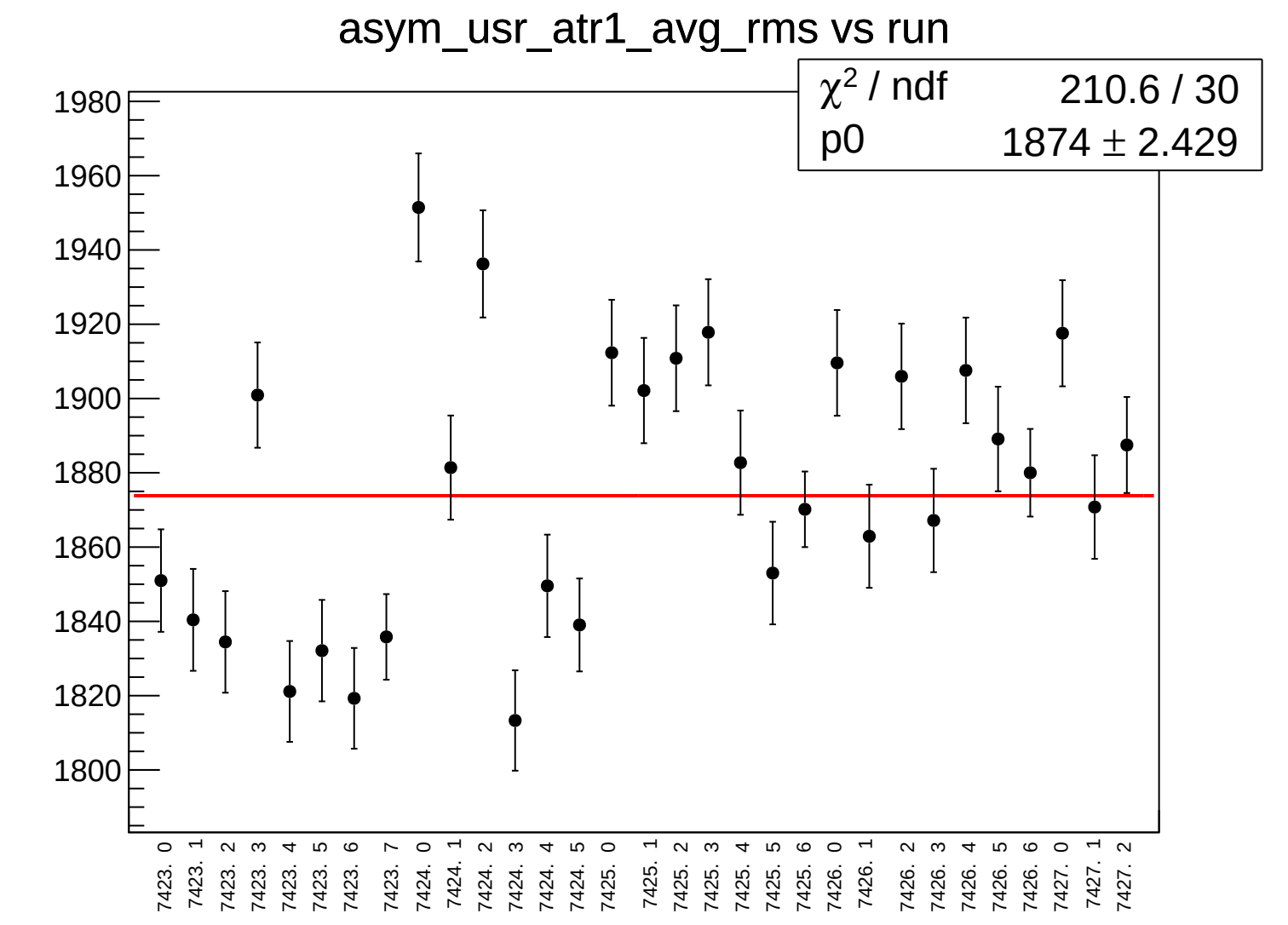

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 21.89 / 30
p0 902.5 ± 1727
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 534.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

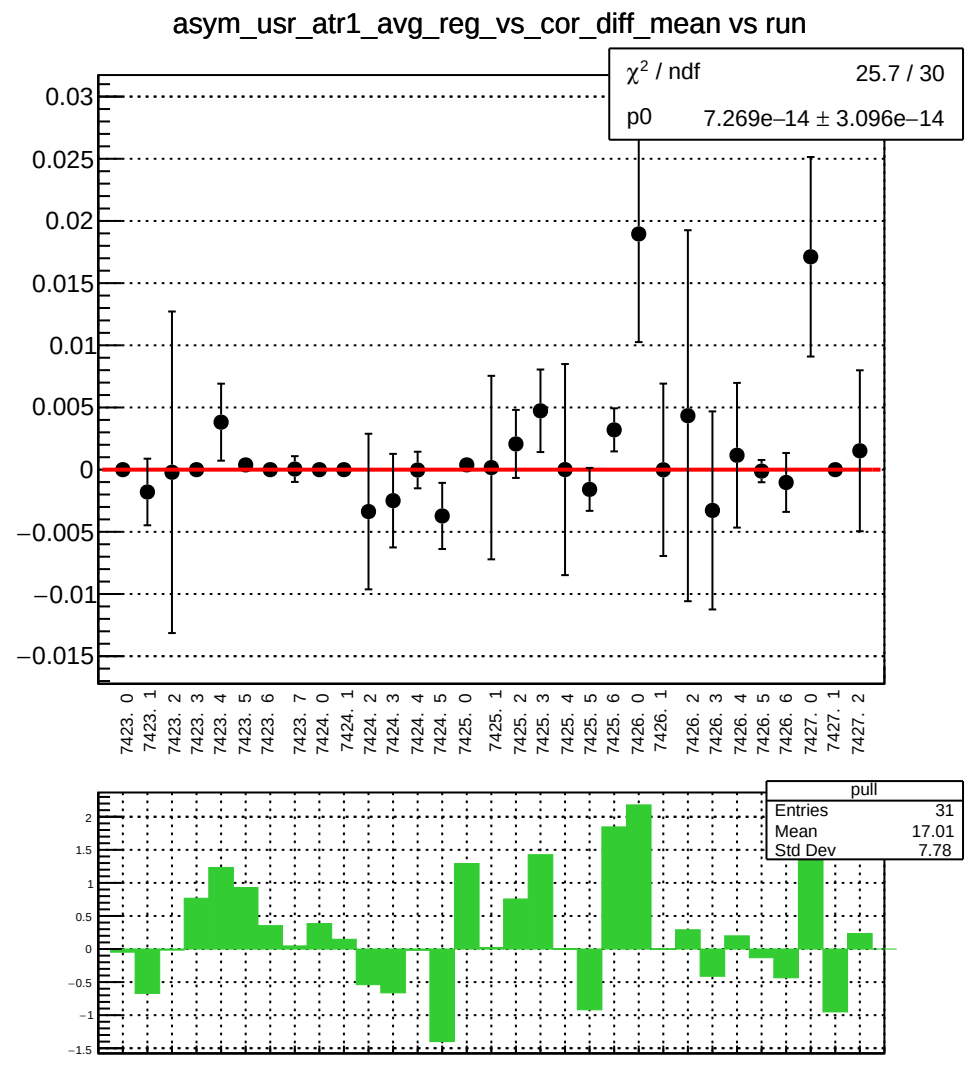

pull1D
Entries 31
Mean 0.006646
Std Dev 0.8403
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

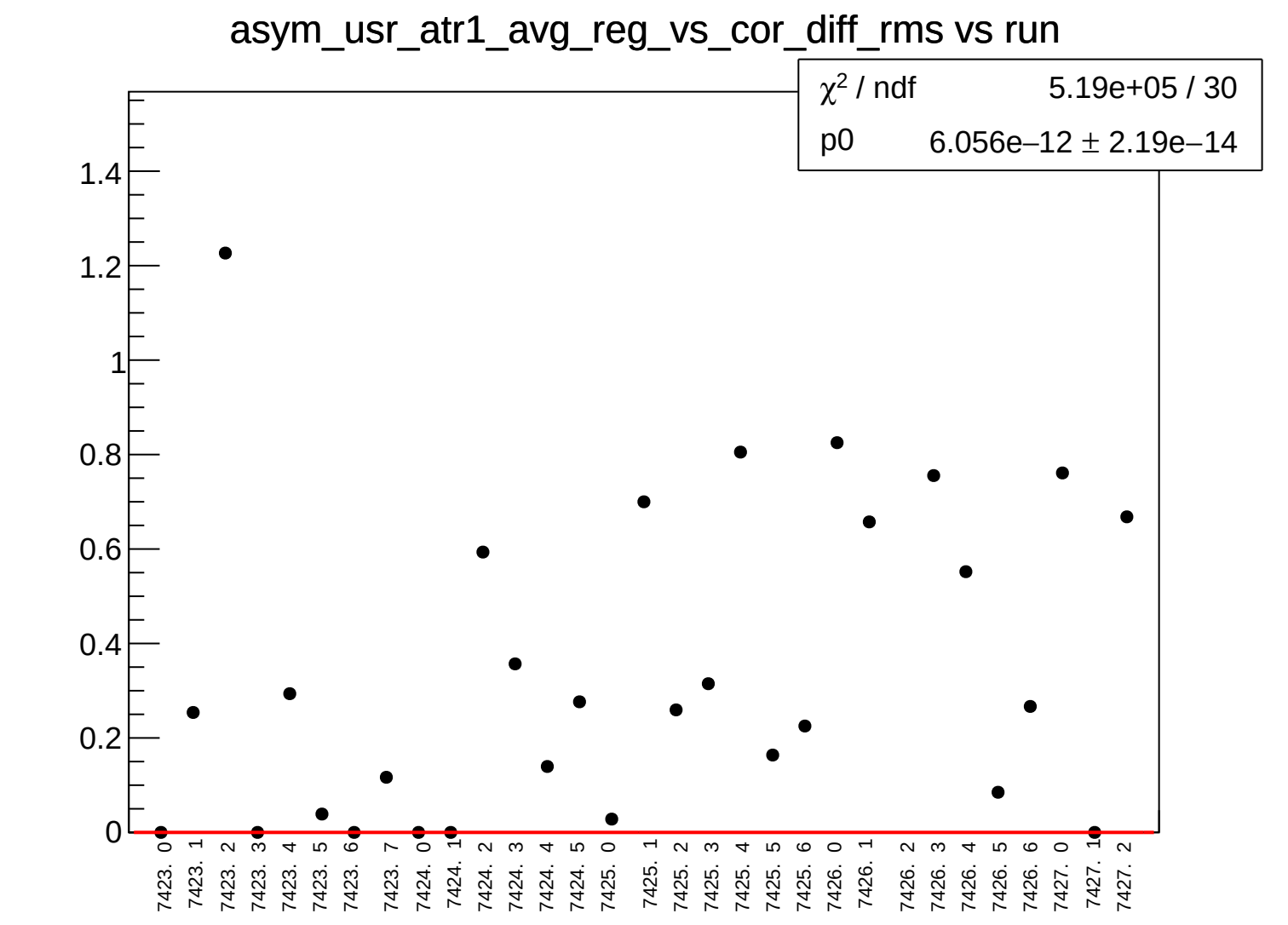

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2054 / 30
p0 940.5 ± 1.221
1100
1050
1000
950
900
850
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

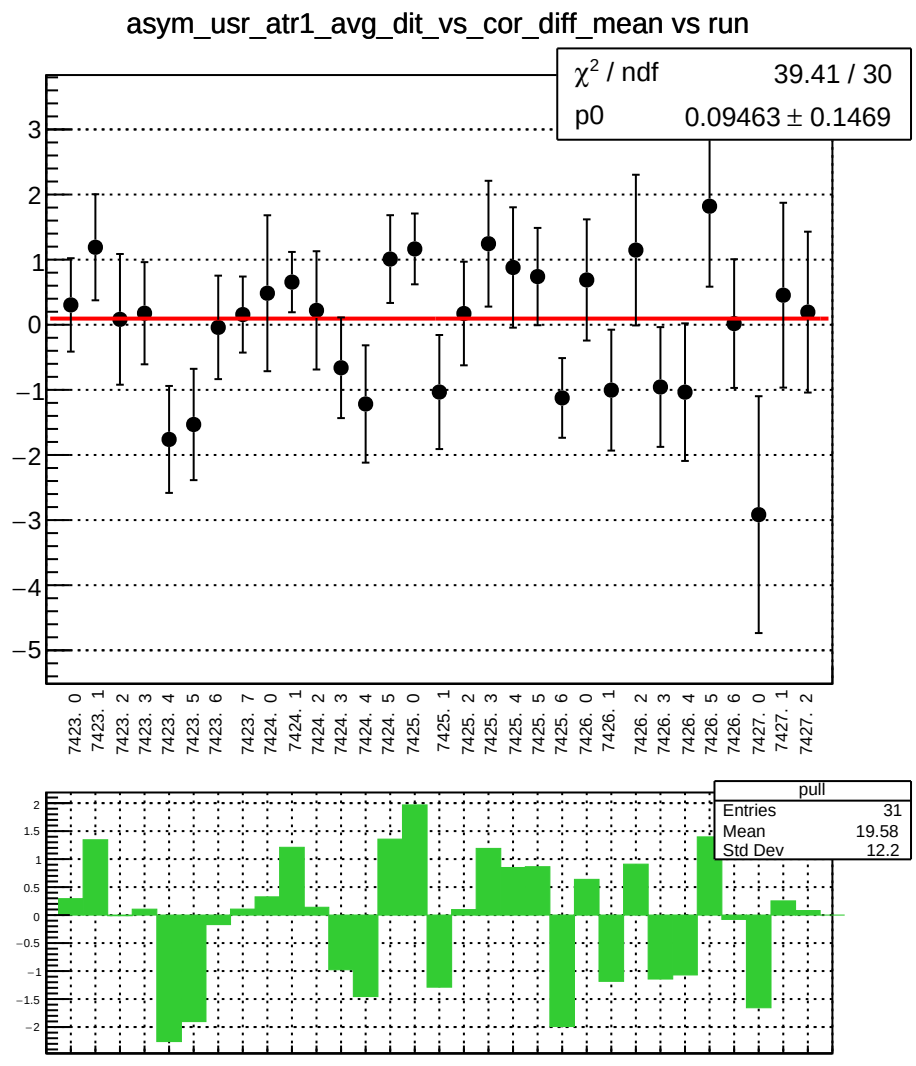

asym_usr_atr1_avg_mean vs run
χ² / ndf 32.75 / 30
p0 −6296 ± 3435
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 408.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

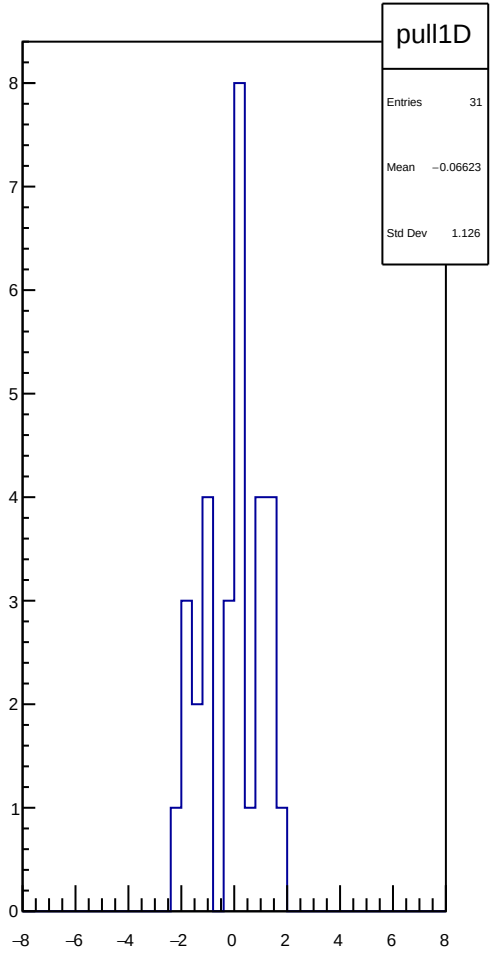

pull1D
Entries 31
Mean −0.007019
Std Dev 1.028
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

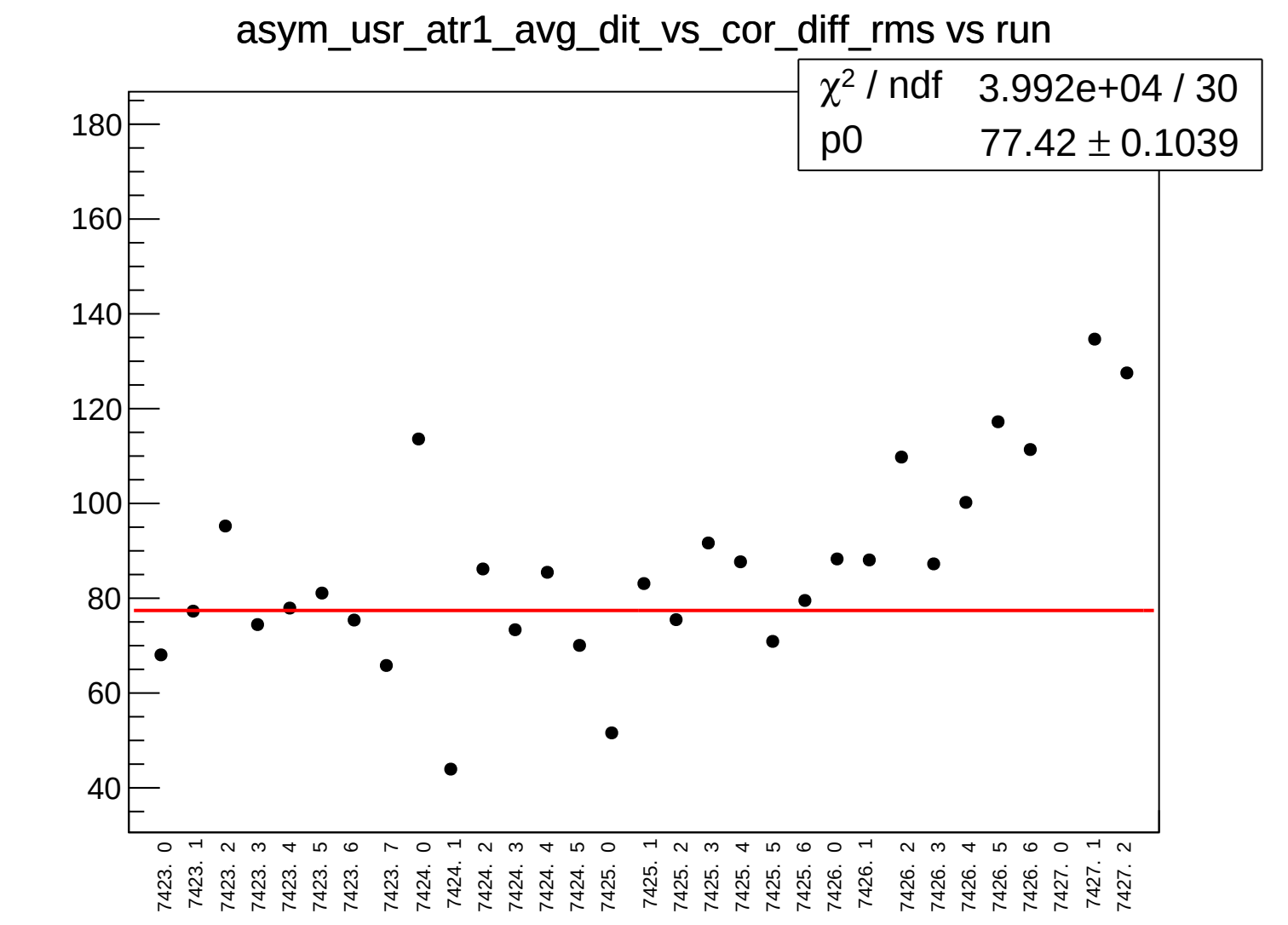

asym_usr_atr1_avg_rms vs run
χ² / ndf 210.6 / 30
p0 1874 ± 2.429
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

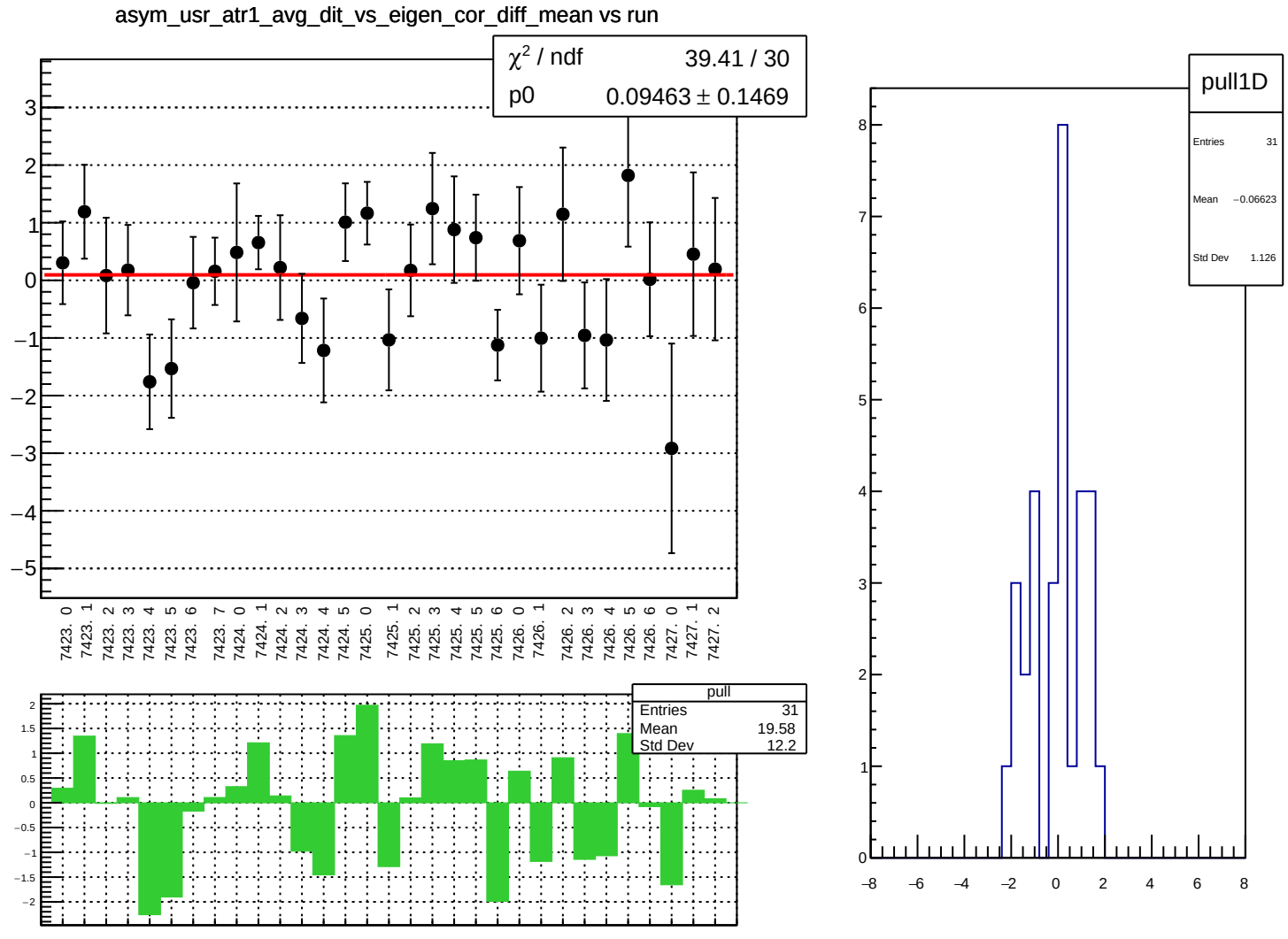

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.7 / 30
p0 7.269e−14 ± 3.096e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 17.01
Std Dev 7.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.2594
Std Dev 0.8728
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

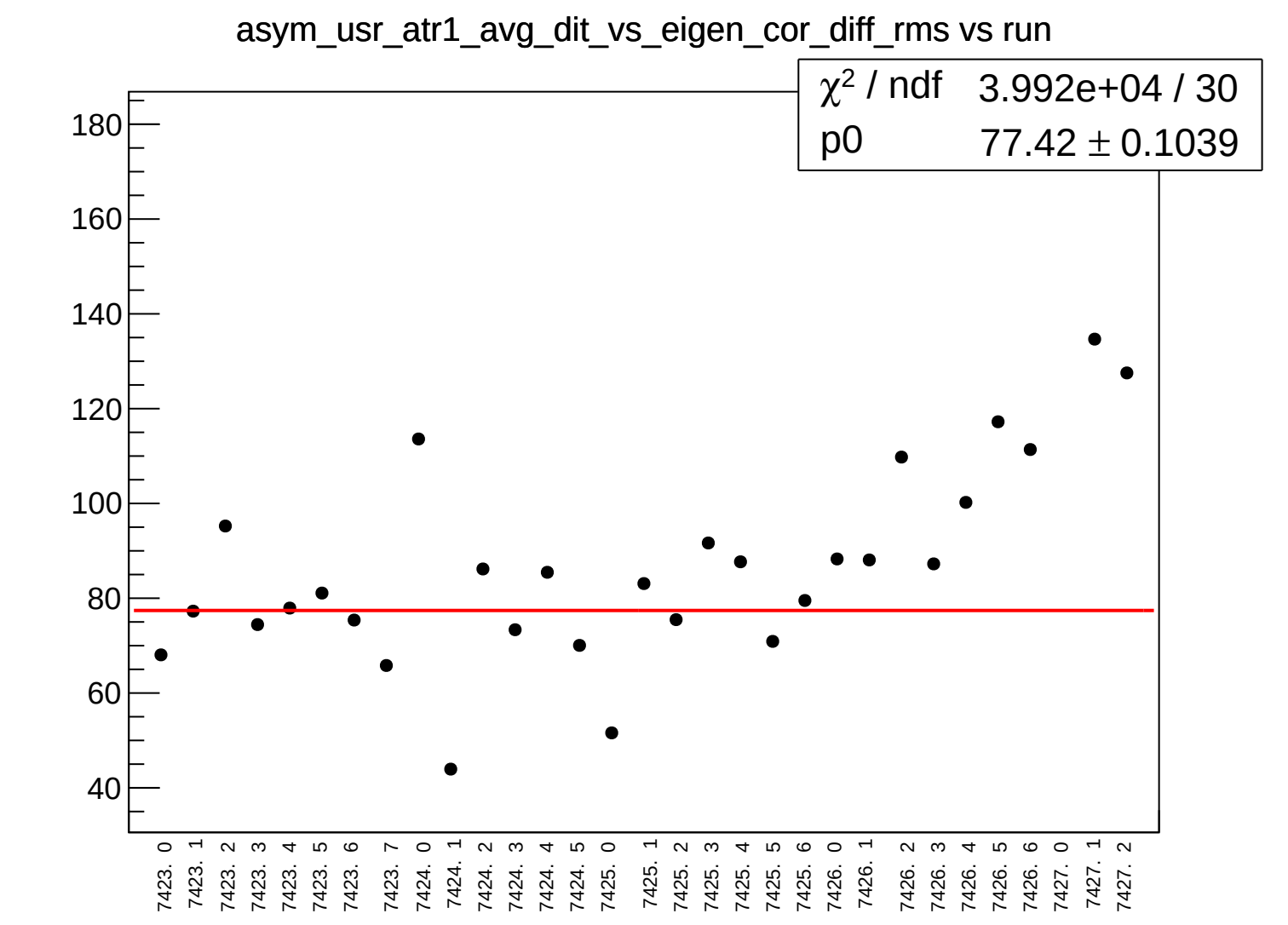

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.19e+05 / 30
p0 6.056e−12 ± 2.19e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

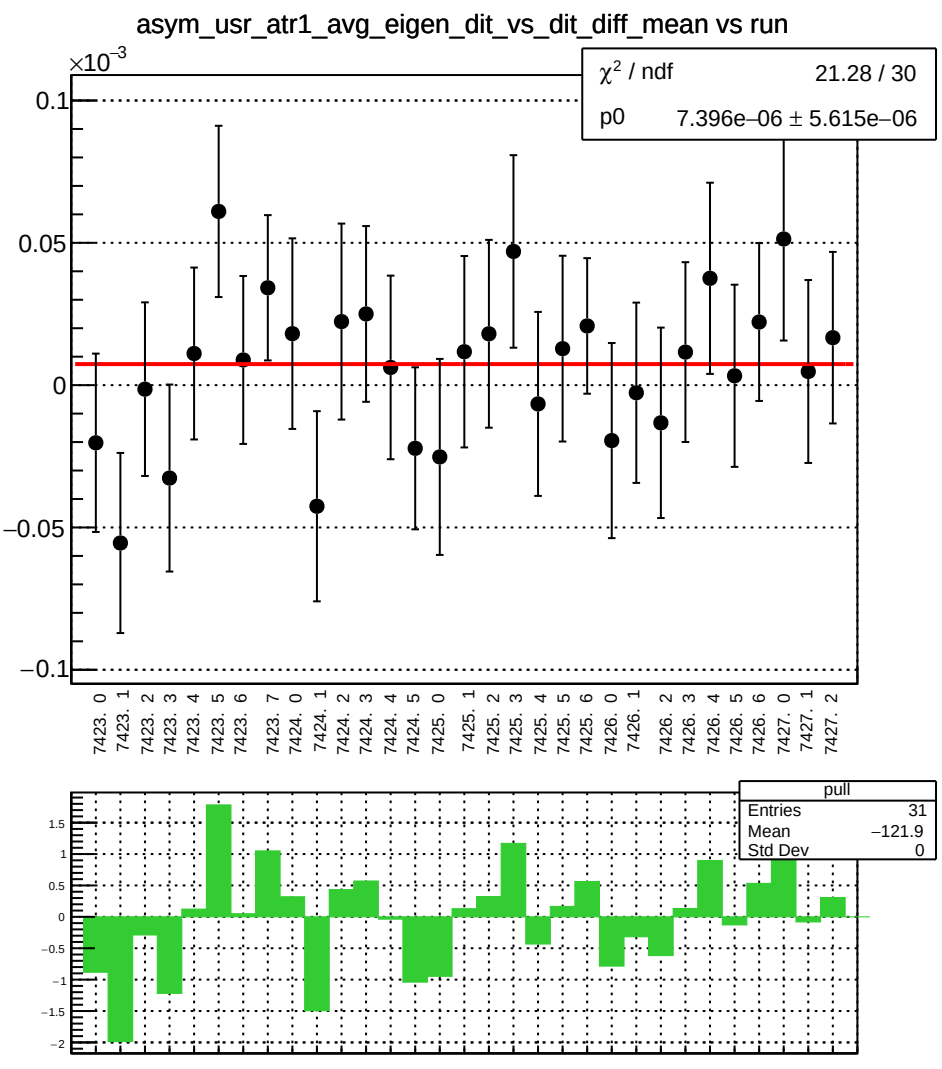

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.41 / 30
p0 0.09463 ± 0.1469
pull
Entries 31
Mean 19.58
Std Dev 12.2

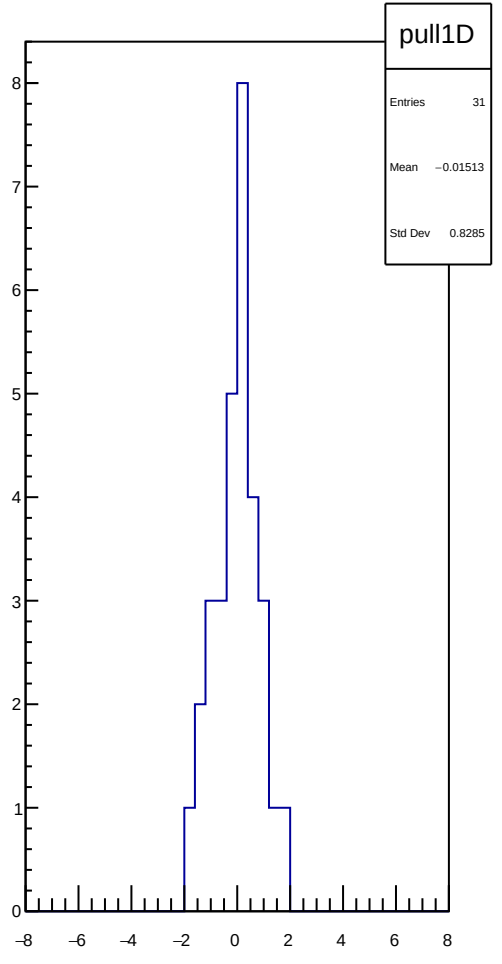

pull1D
Entries 31
Mean −0.06623
Std Dev 1.126

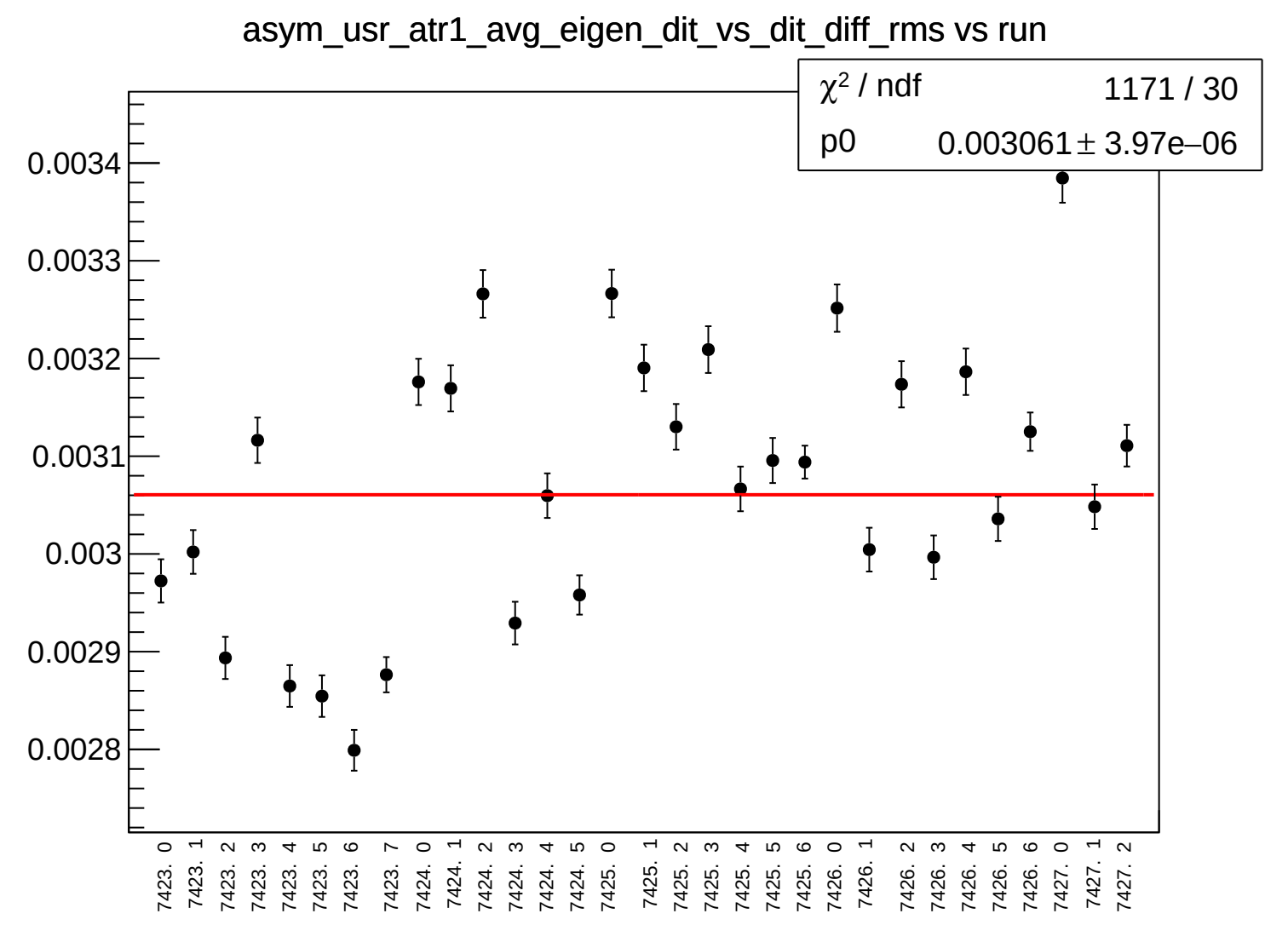

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.992e+04 / 30
p0 77.42 ± 0.1039
180
160
140
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

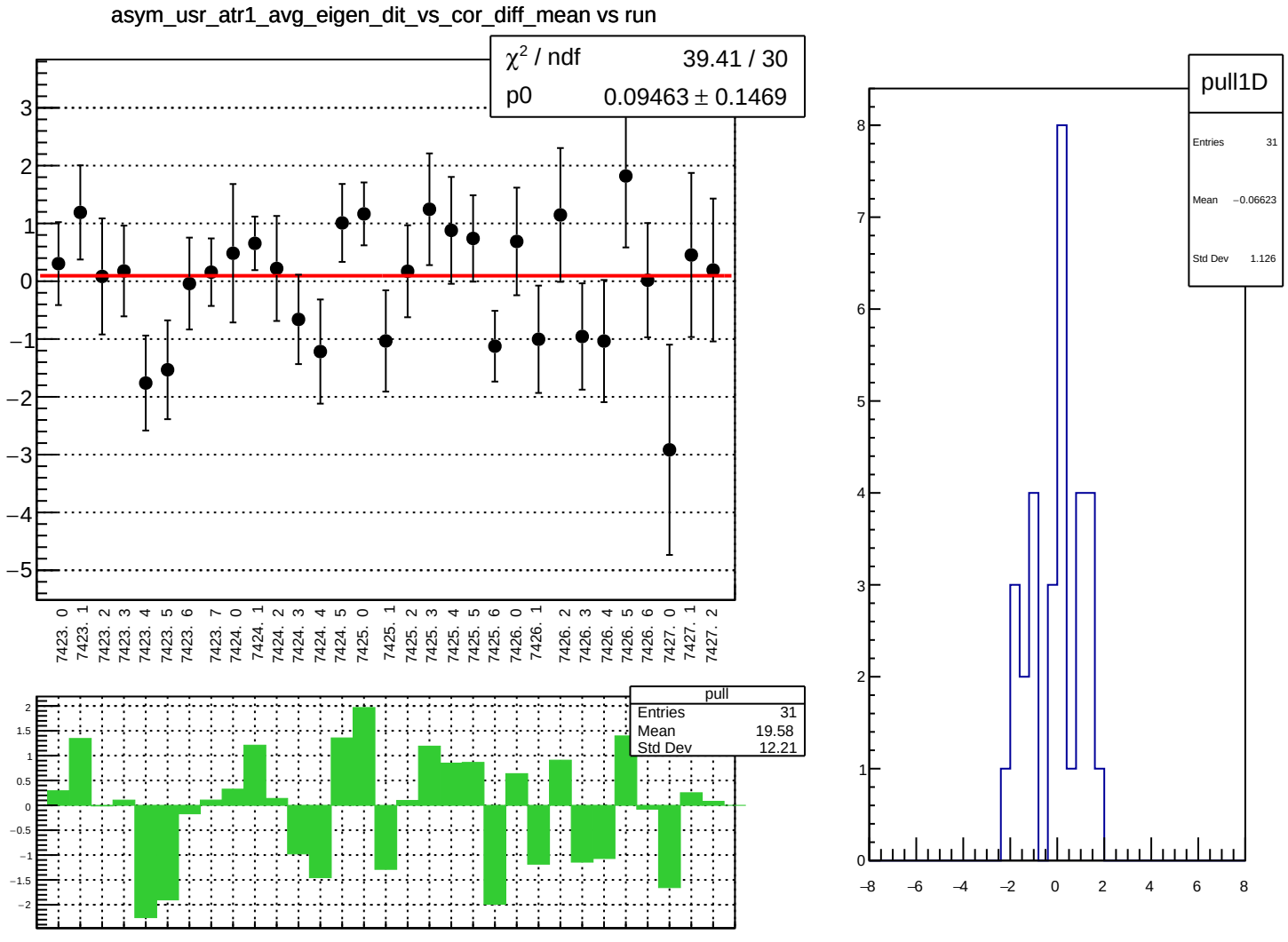

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.41 / 30
p0 0.09463 ± 0.1469
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 19.58
Std Dev 12.2
pull1D
Entries 31
Mean −0.06623
Std Dev 1.126

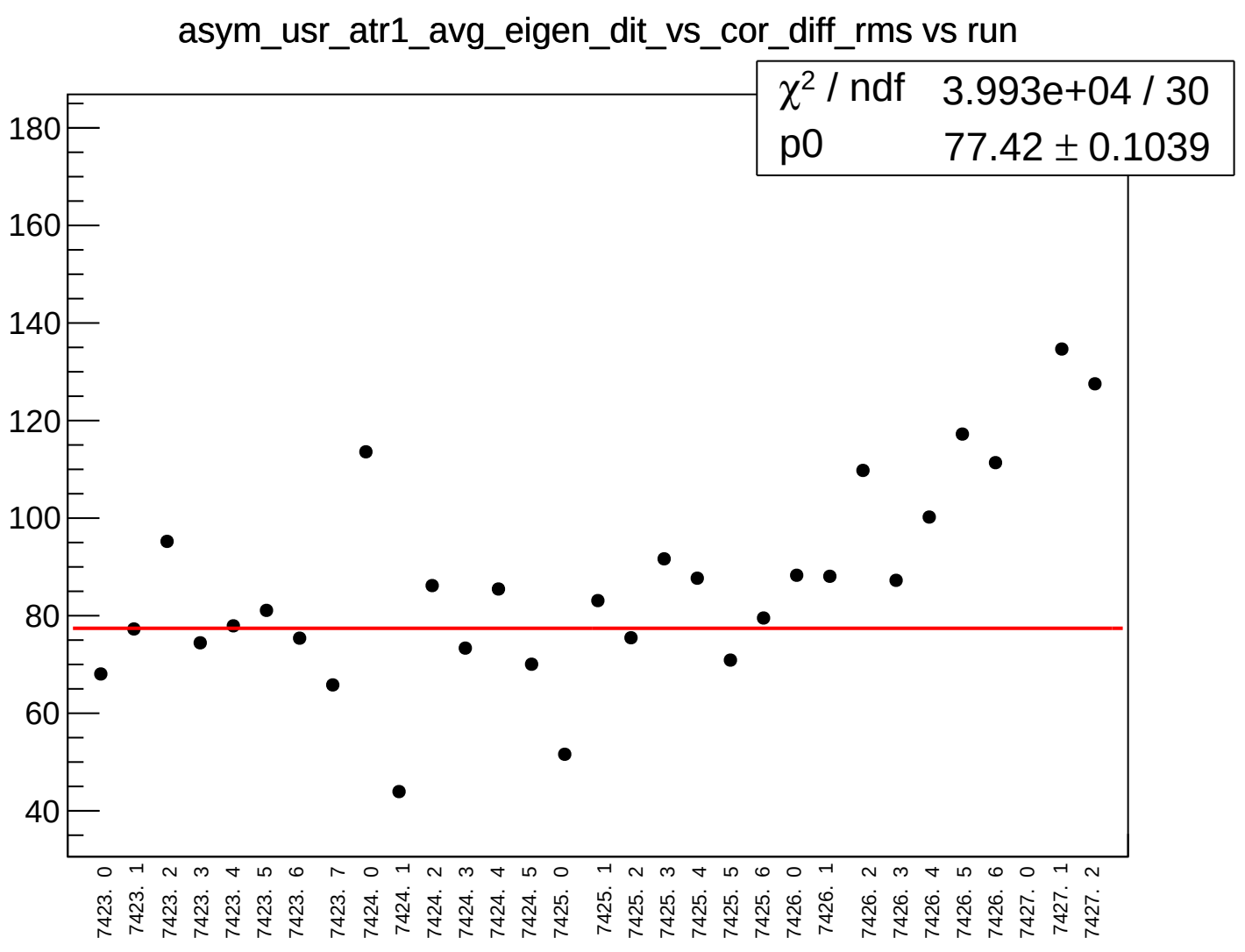

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.992e+04 / 30
p0 77.42 ± 0.1039
180
160
140
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

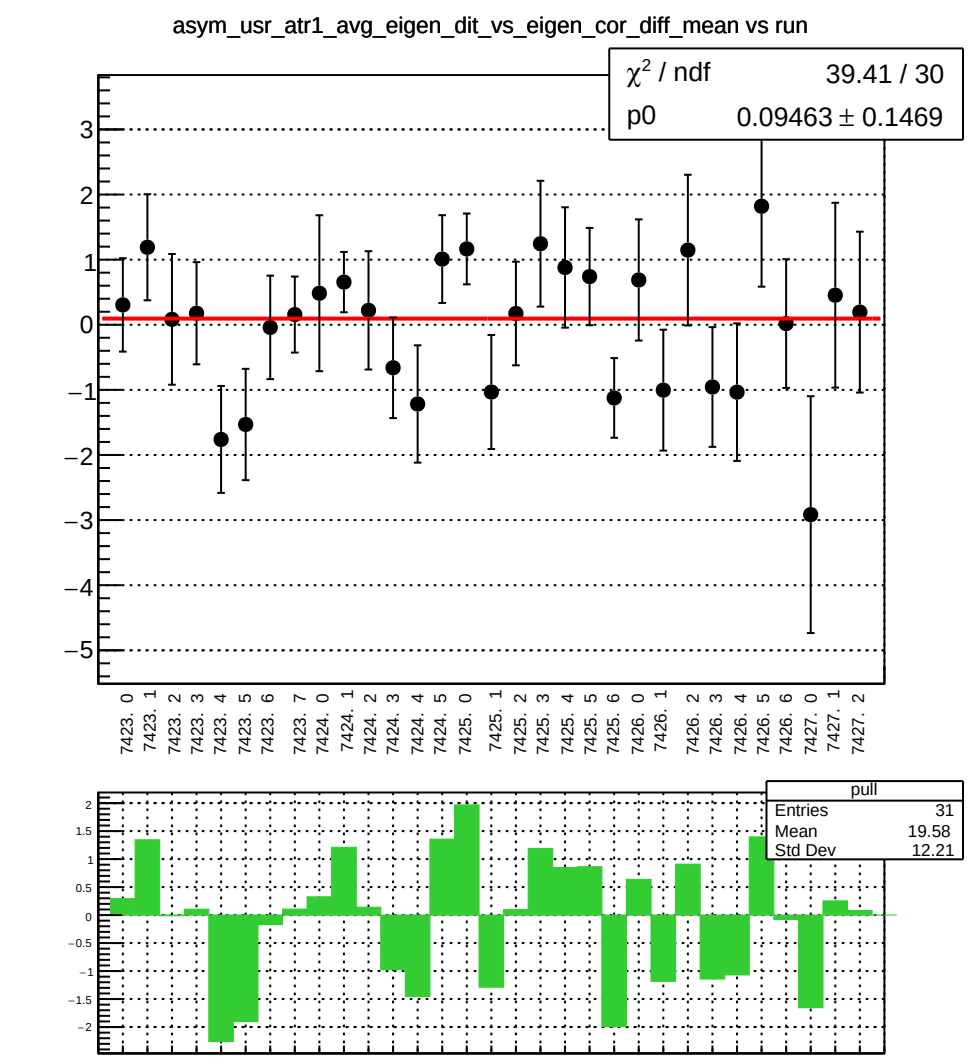

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 21.28 / 30
p0 7.396e−06 ± 5.615e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −121.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

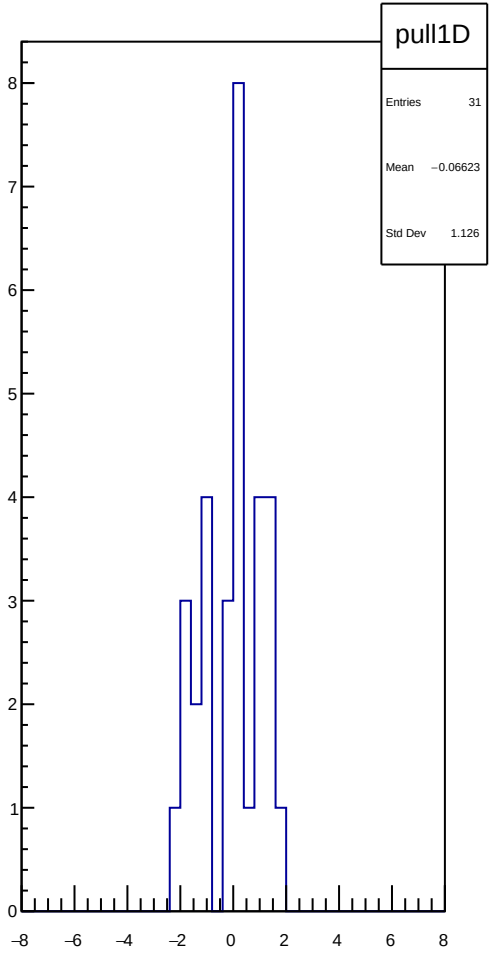

pull1D
Entries 31
Mean −0.01513
Std Dev 0.8285
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

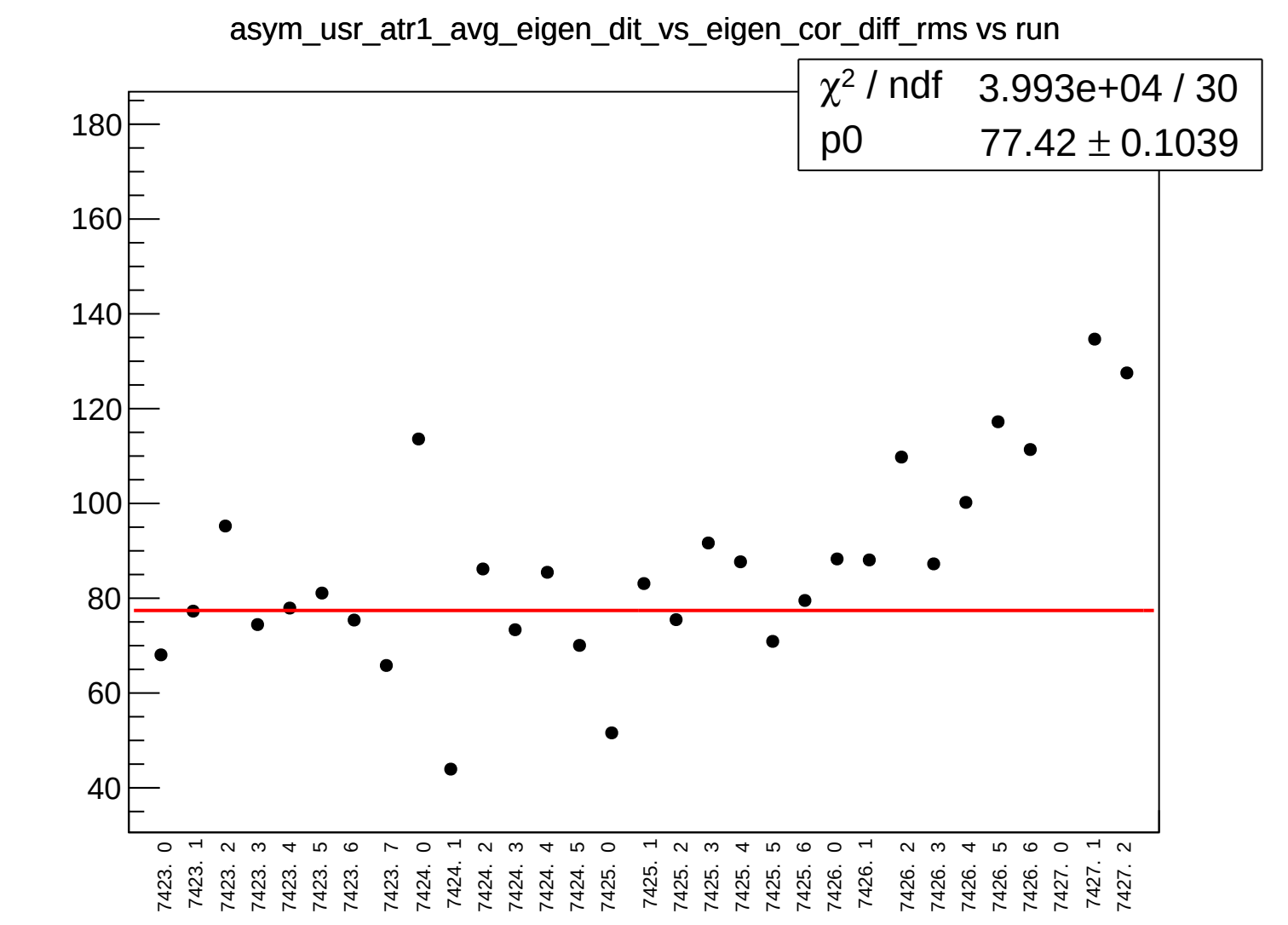

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1171 / 30
p0 0.003061 ± 3.97e–06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

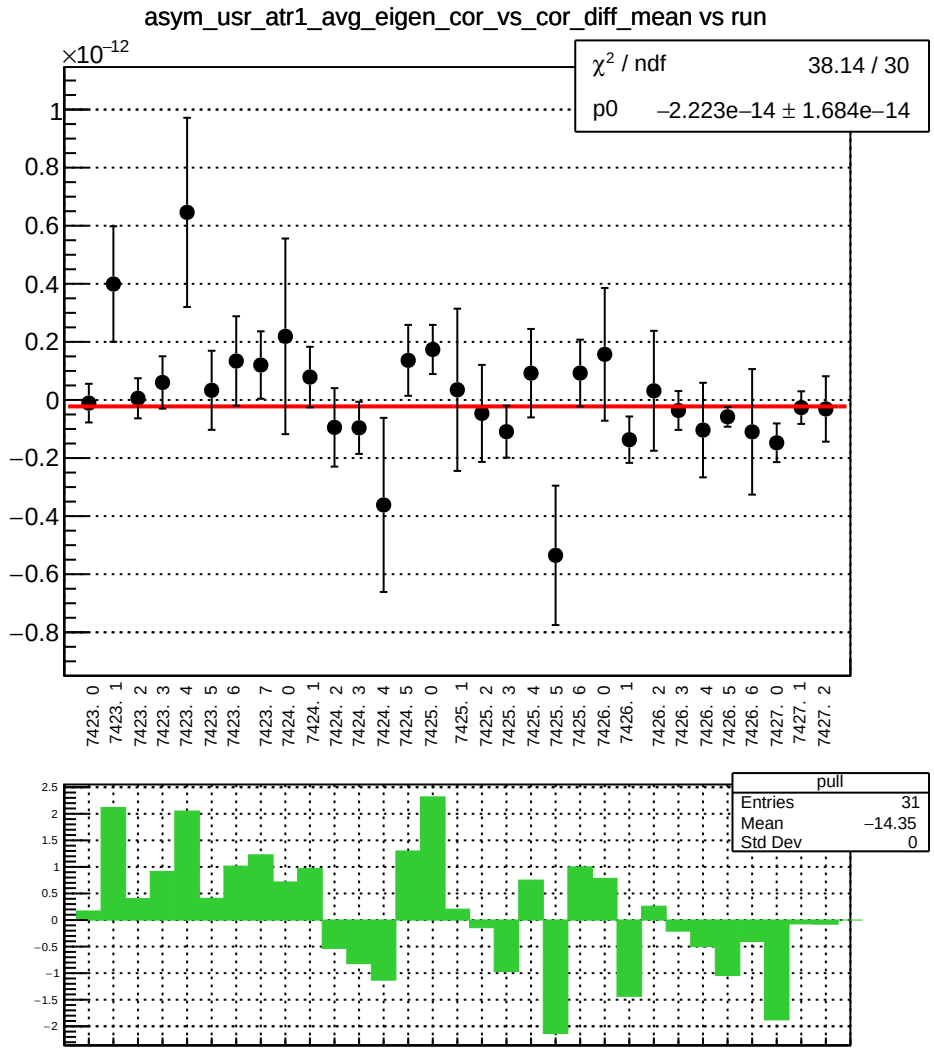

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.41 / 30
p0 0.09463 ± 0.1469
3
2
1
0
−1
−2
−3
−4
−5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 19.58
Std Dev 12.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.06623
Std Dev 1.126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

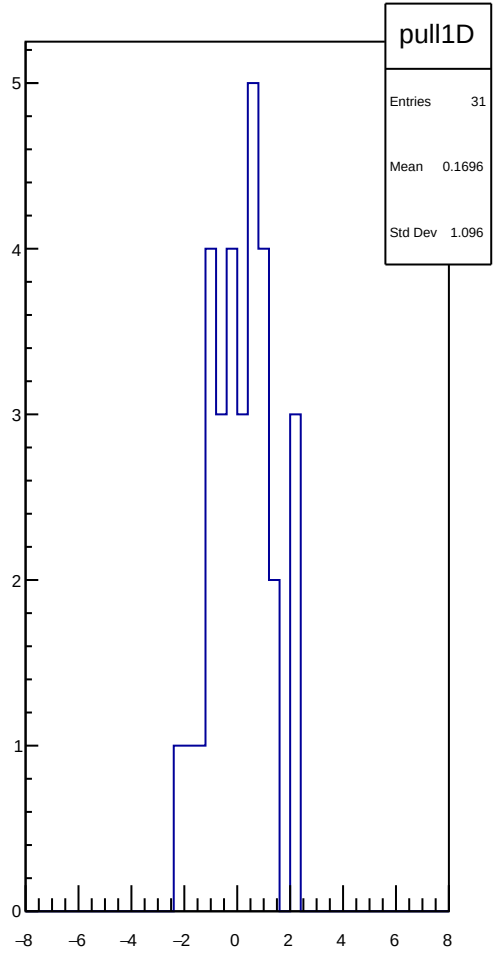

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.993e+04 / 30
p0 77.42 ± 0.1039
180
160
140
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

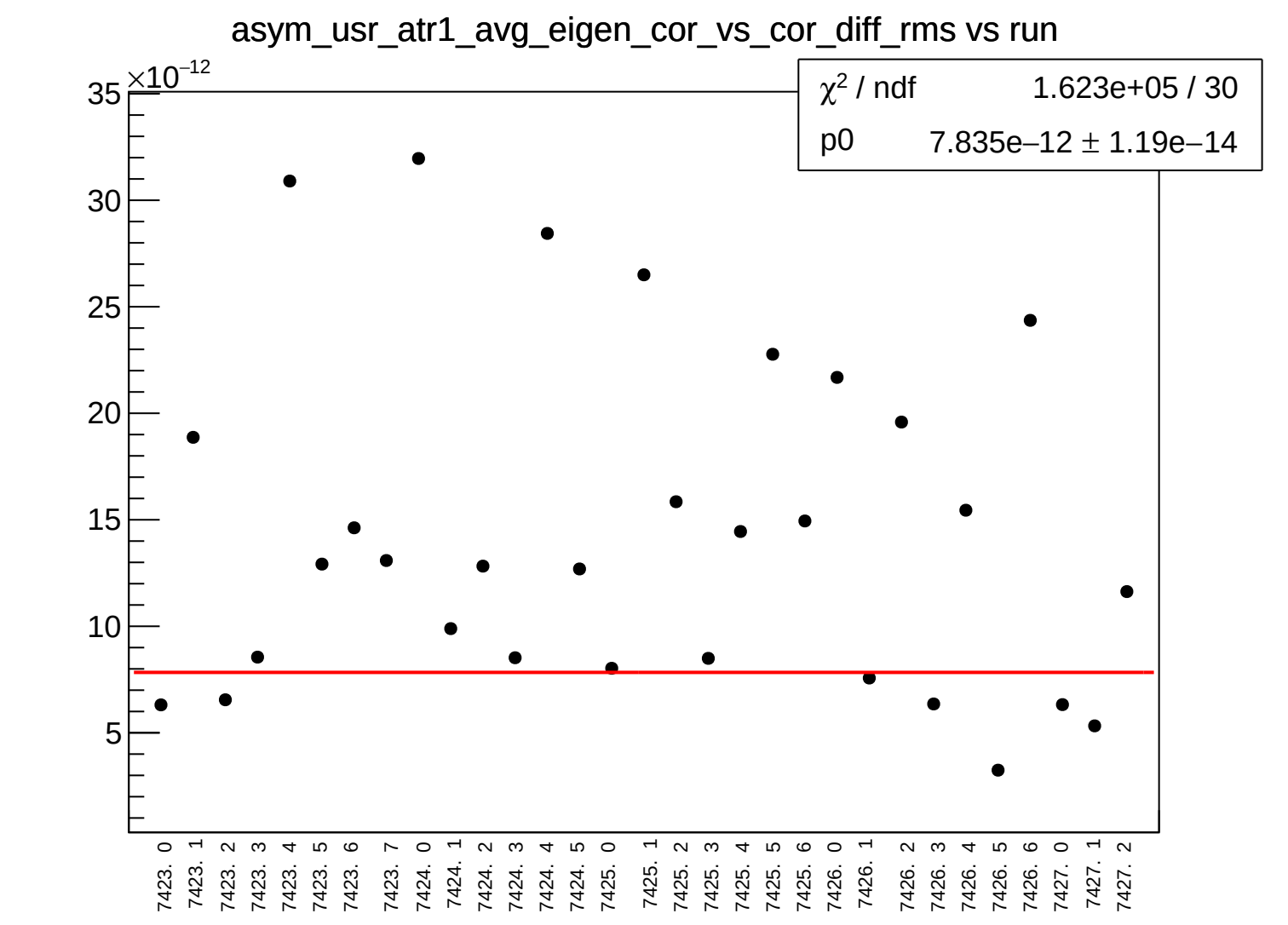

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.41 / 30
p0 0.09463 ± 0.1469
3
2
1
0
−1
−2
−3
−4
−5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 19.58
Std Dev 12.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

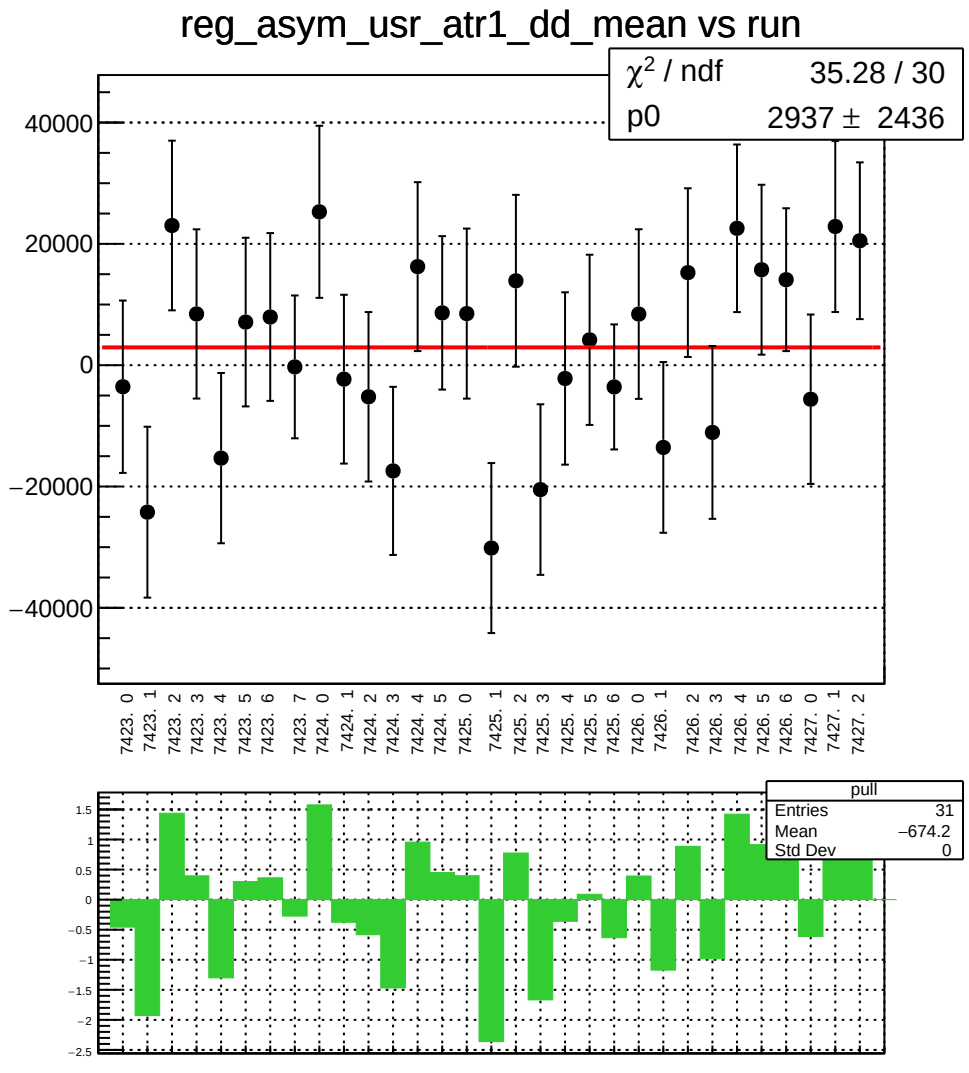

pull1D
Entries 31
Mean −0.06623
Std Dev 1.126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

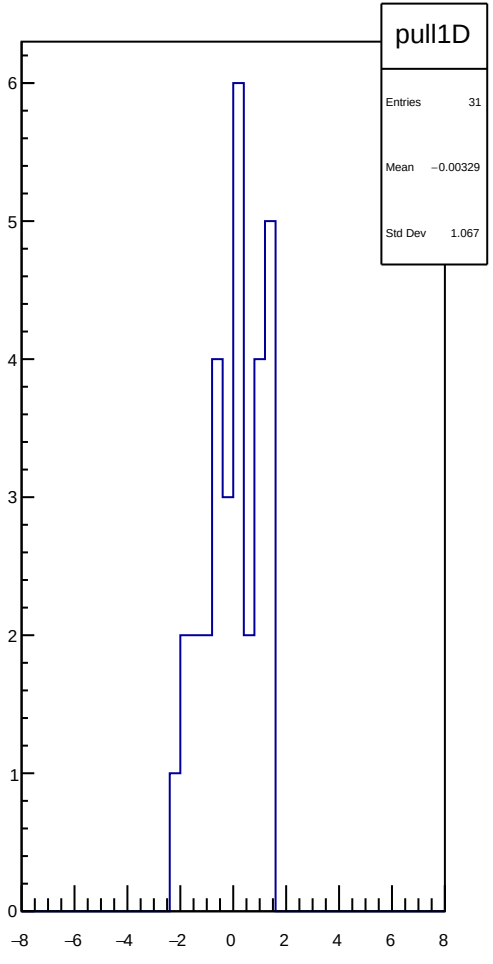

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.993e+04 / 30
p0 77.42 ± 0.1039
180
160
140
120
100
80
60
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

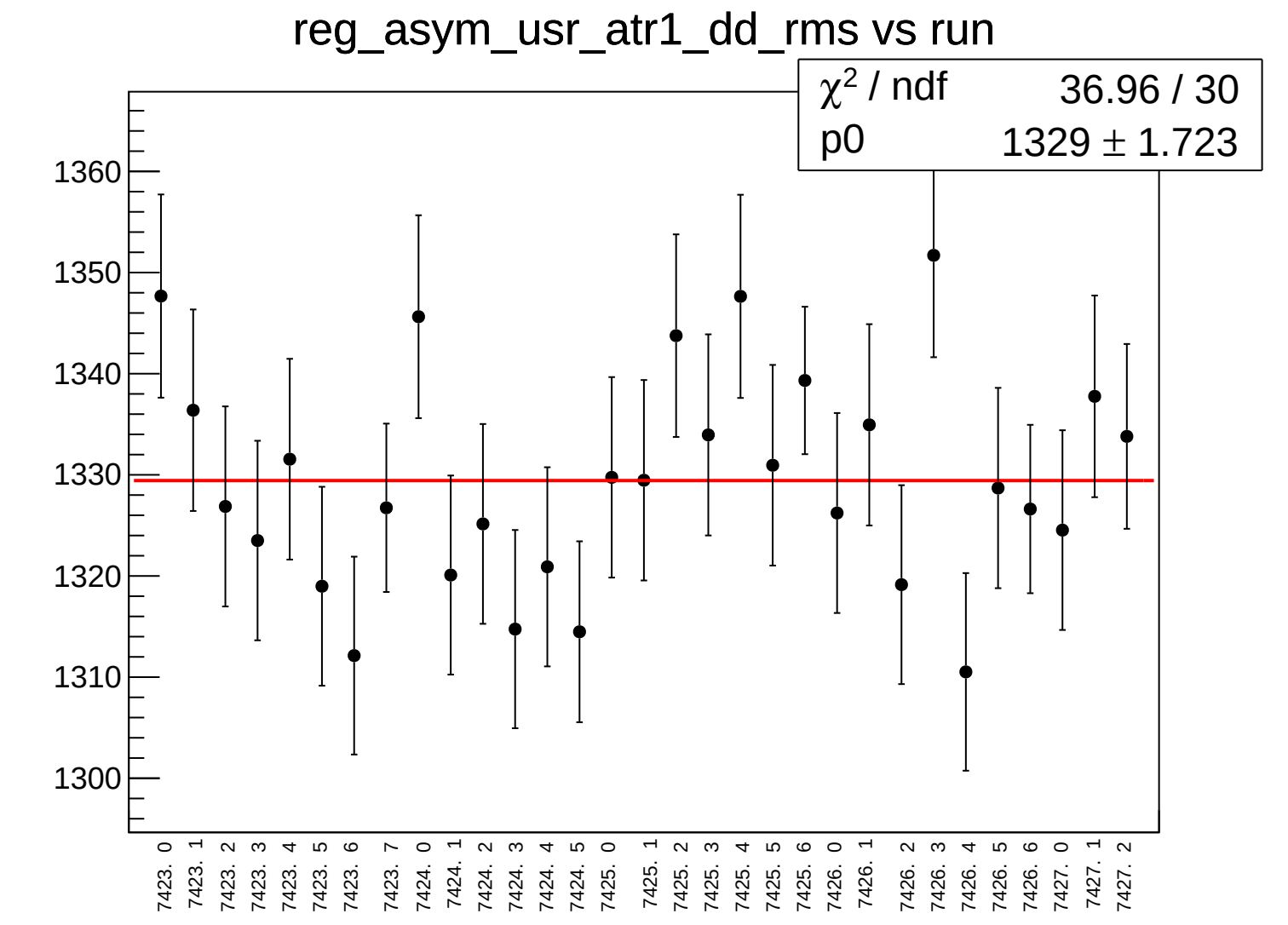

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.14 / 30
p0 −2.223e−14 ± 1.684e−14
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −14.35
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

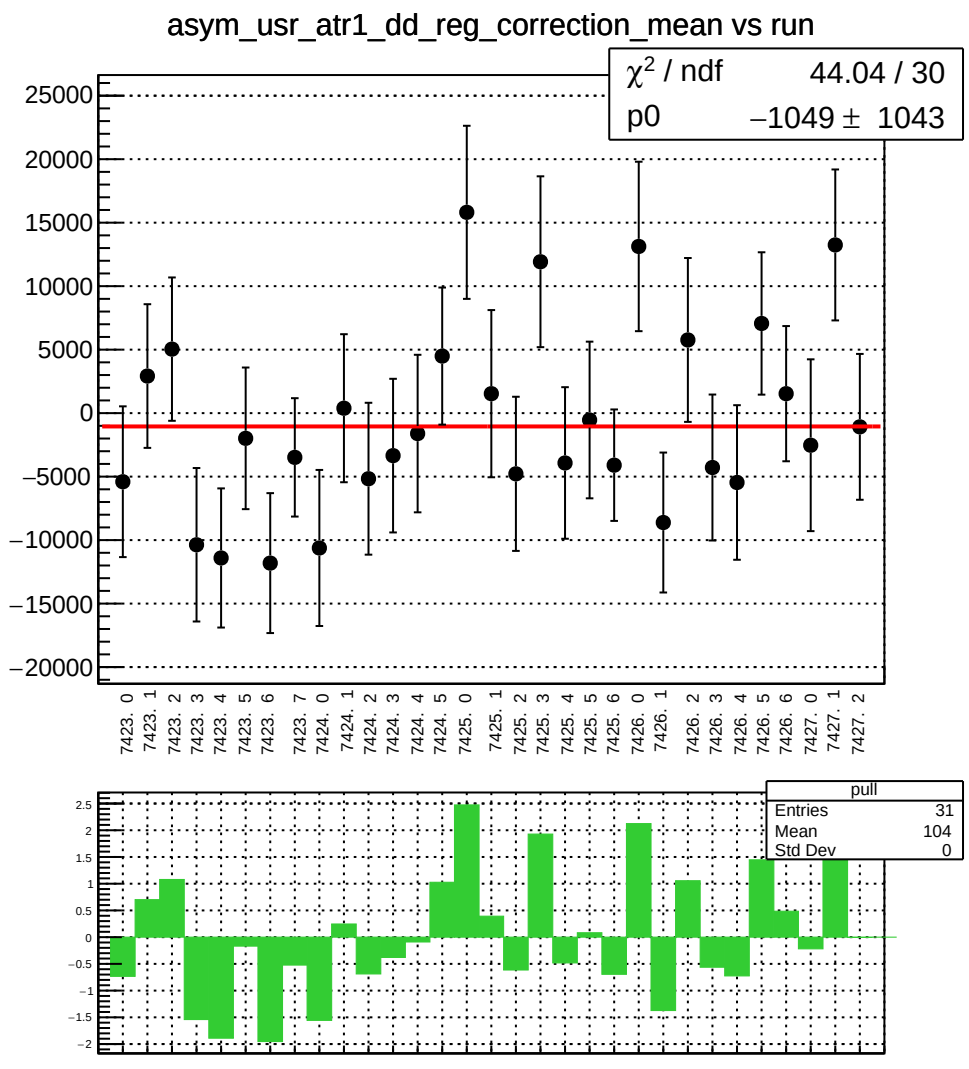

pull1D
Entries 31
Mean 0.1696
Std Dev 1.096
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

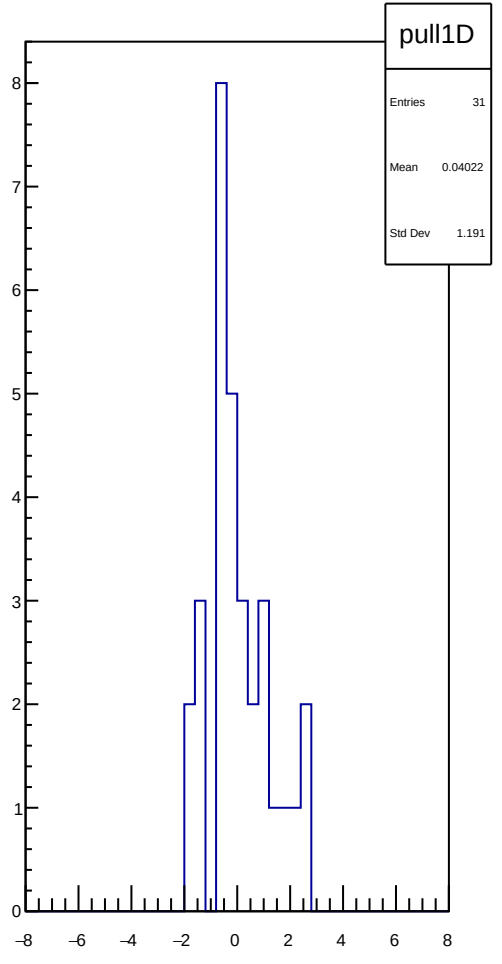

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
35
30
25
20
15
10
5
χ² / ndf 1.623e+05 / 30
p0 7.835e−12 ± 1.19e−14
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

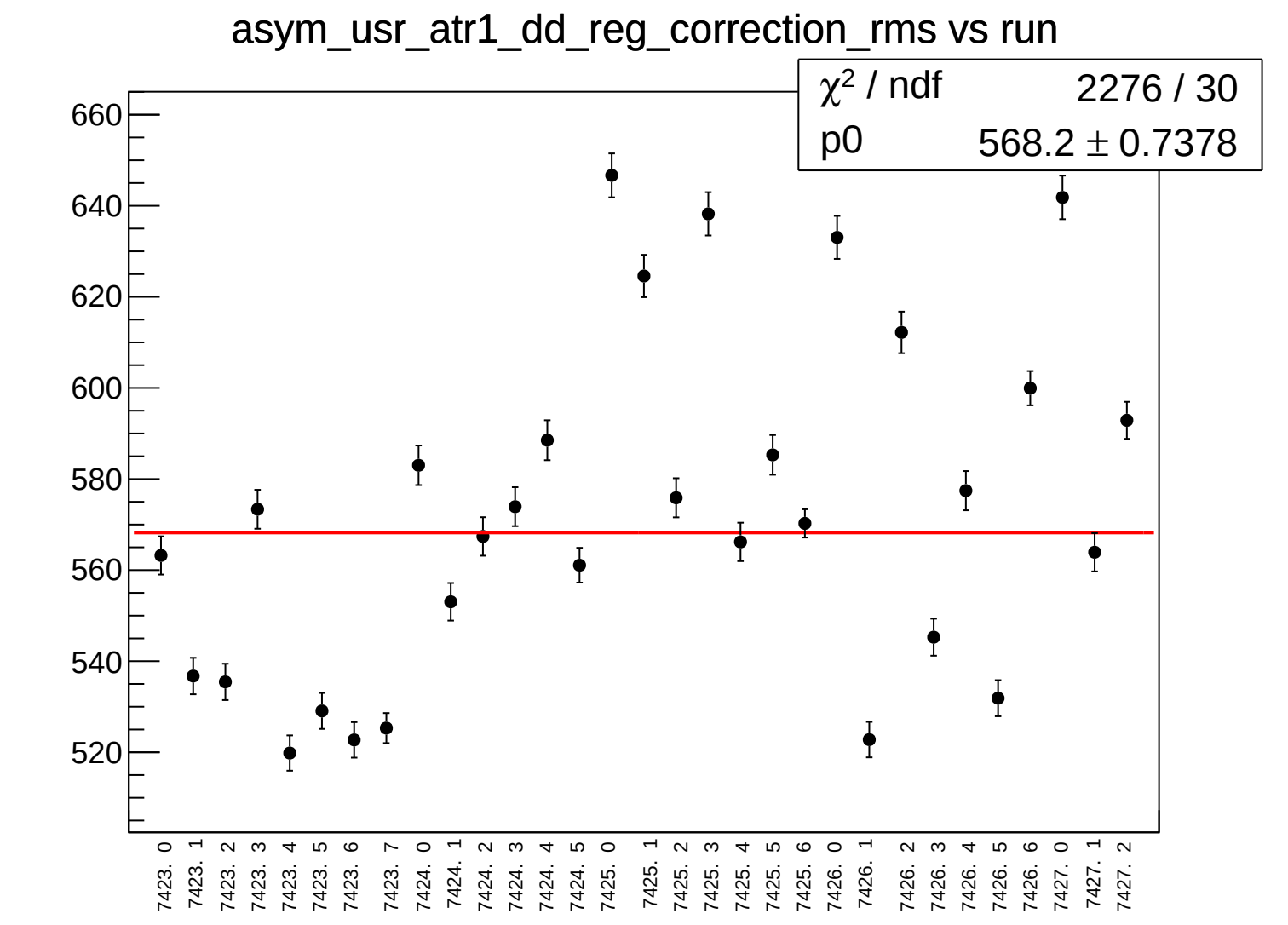

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 35.28 / 30
p0 2937 ± 2436
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −674.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

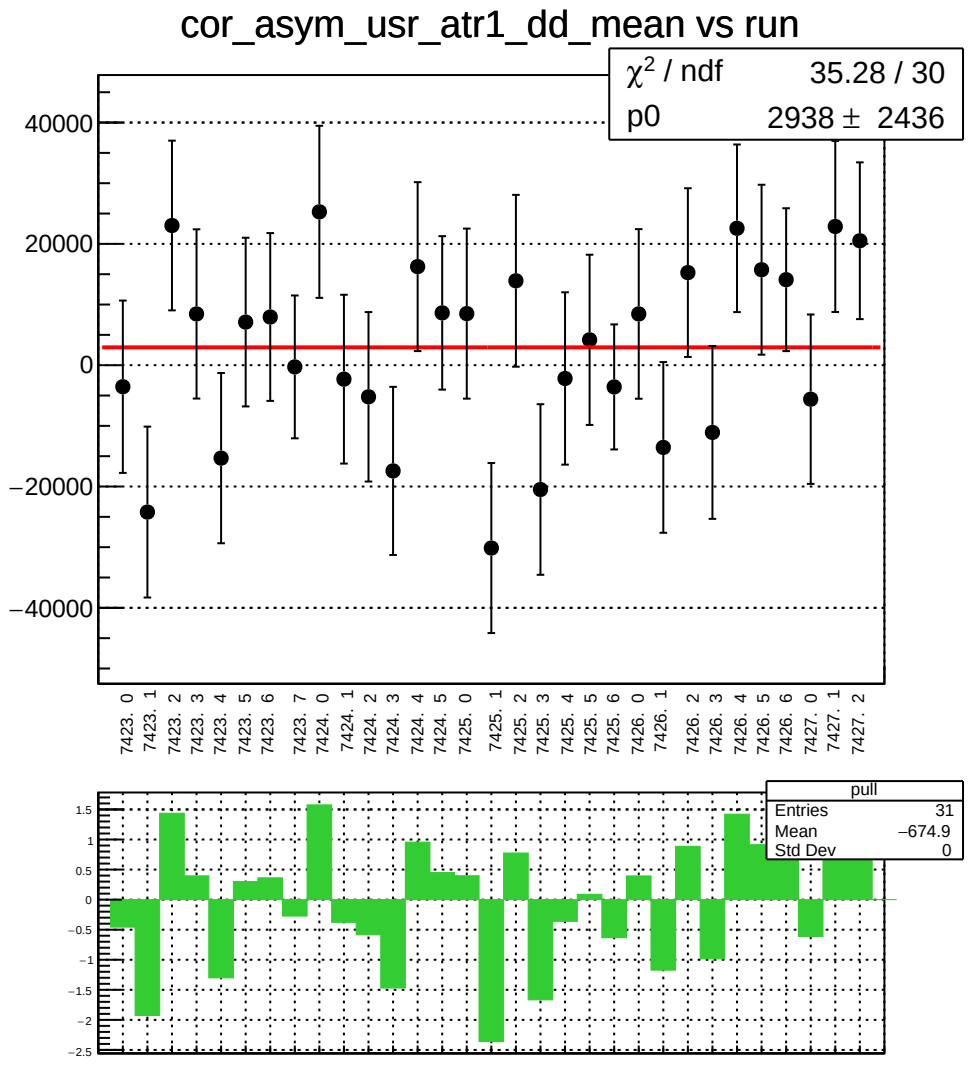

pull1D
Entries 31
Mean −0.00329
Std Dev 1.067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

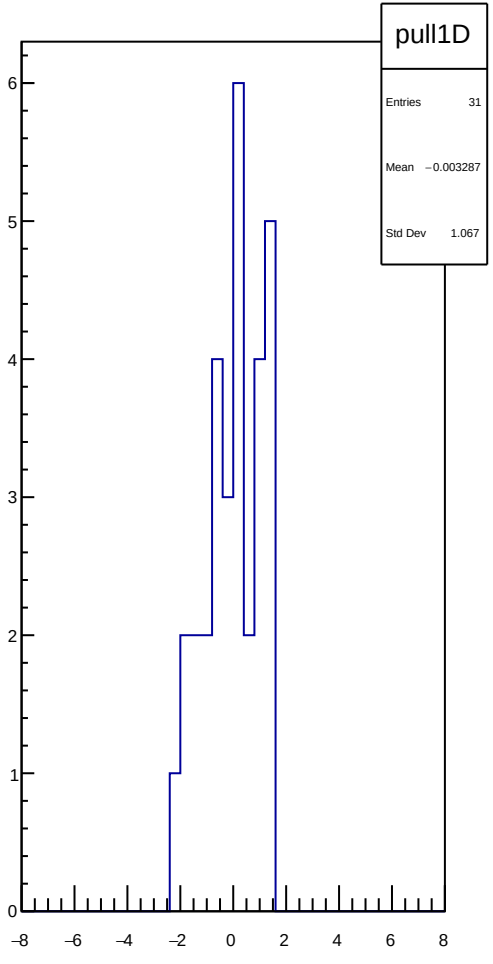

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 36.96 / 30
p0 1329 ± 1.723
1360
1350
1340
1330
1320
1310
1300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

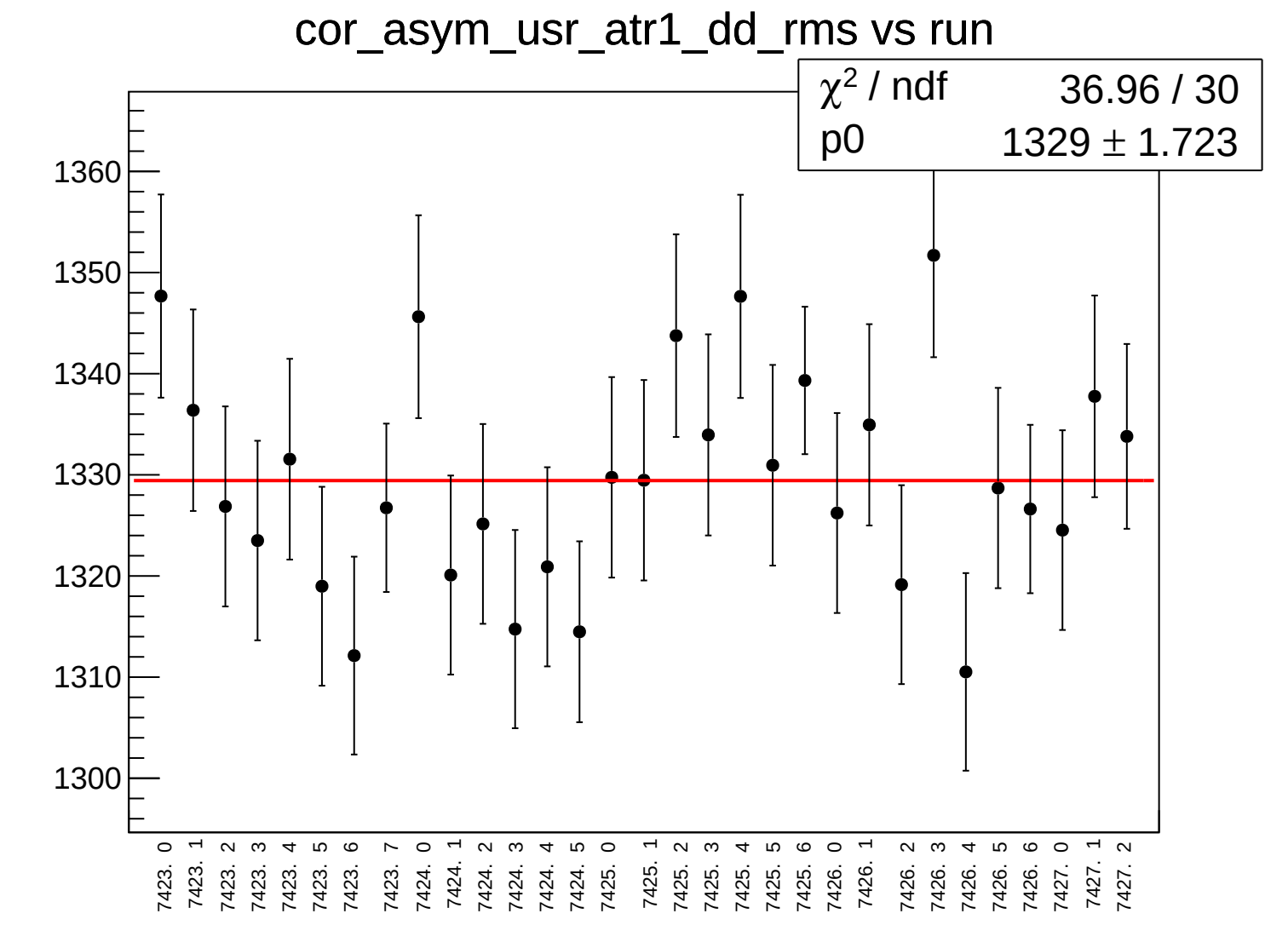

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 44.04 / 30
p0 −1049 ± 1043
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 104
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

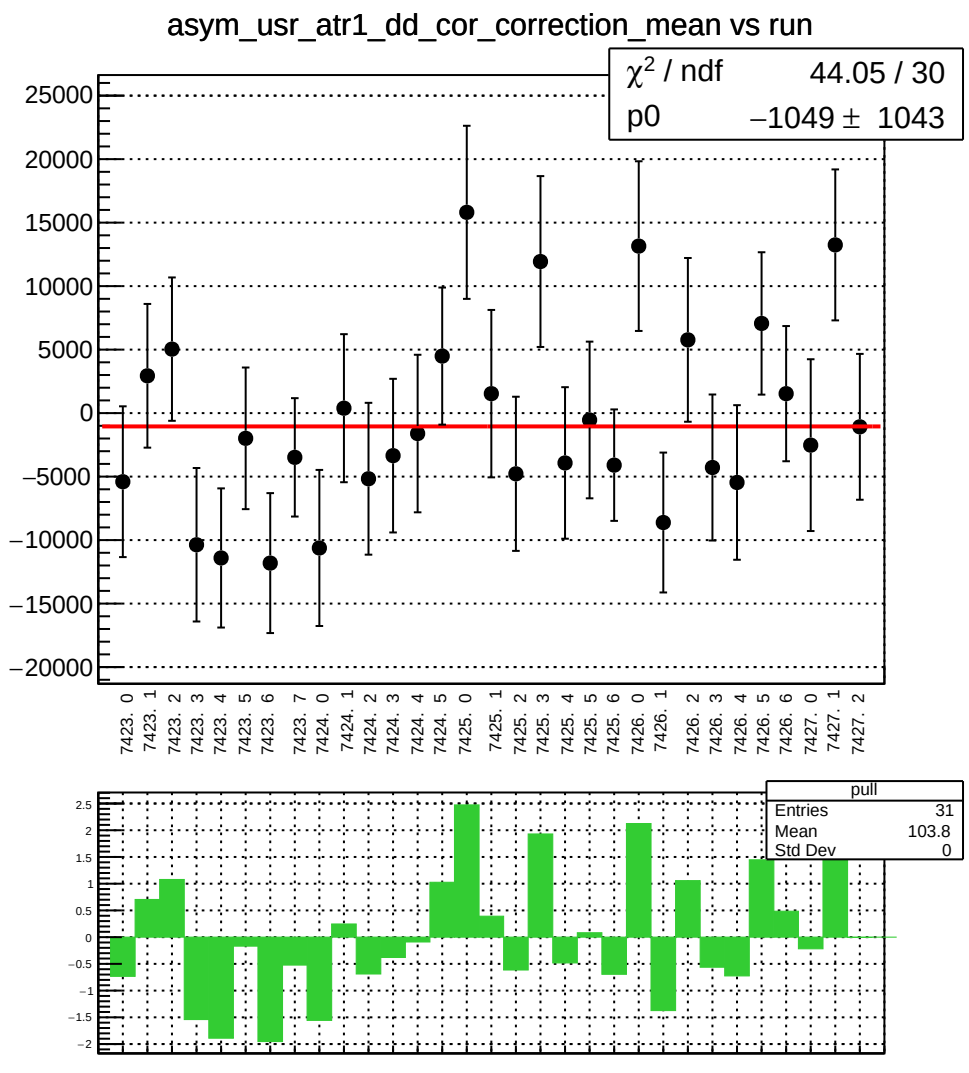

pull1D
Entries 31
Mean 0.04022
Std Dev 1.191
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

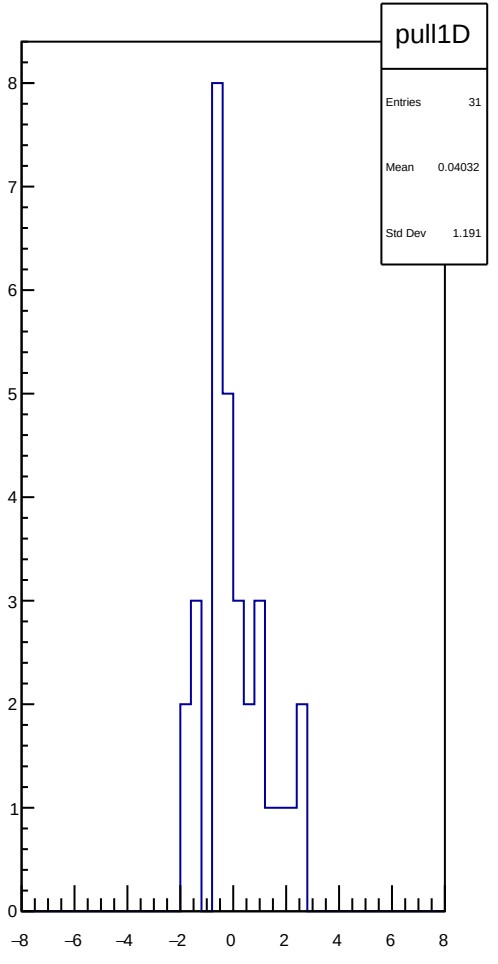

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 2276 / 30
p0 568.2 ± 0.7378
660
640
620
600
580
560
540
520
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

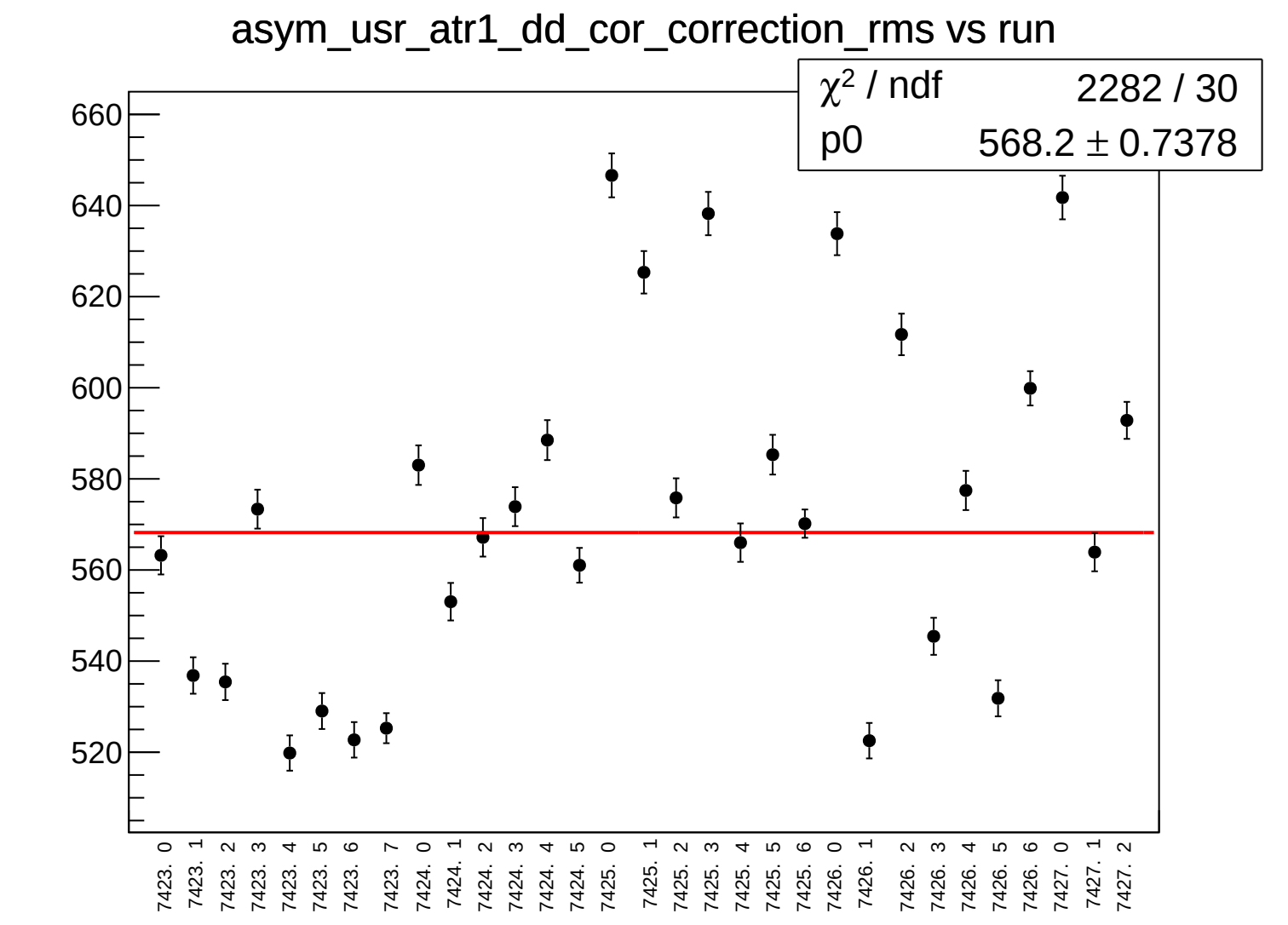

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 35.28 / 30
p0 2938 ± 2436
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −674.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

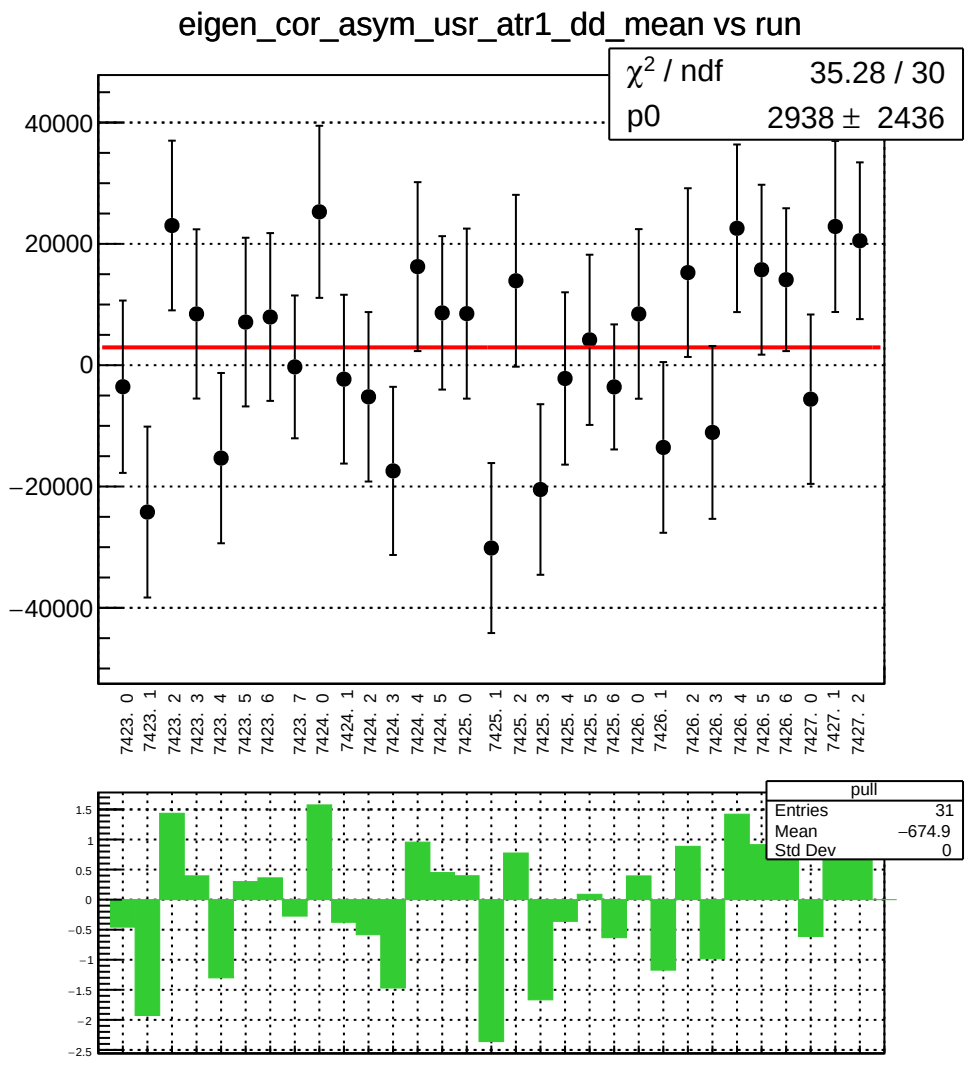

pull1D
Entries 31
Mean −0.003287
Std Dev 1.067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

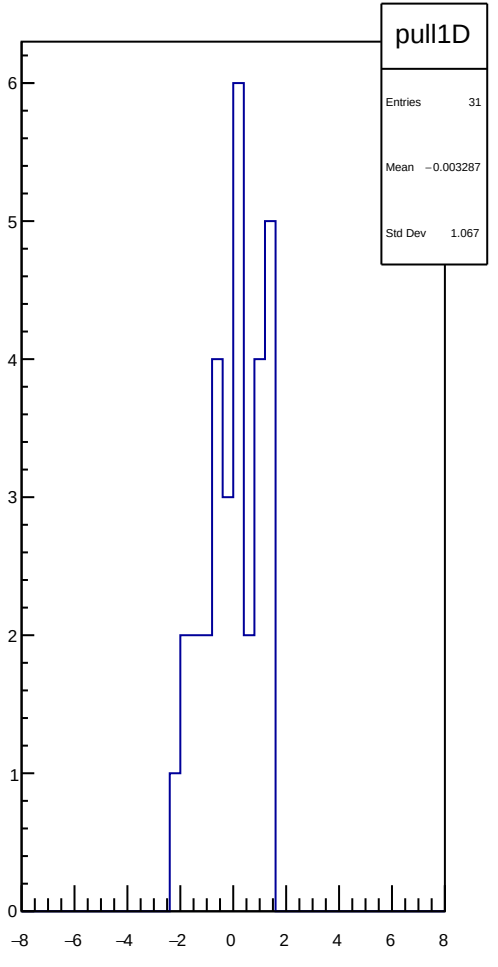

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 36.96 / 30
p0 1329 ± 1.723
1360
1350
1340
1330
1320
1310
1300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

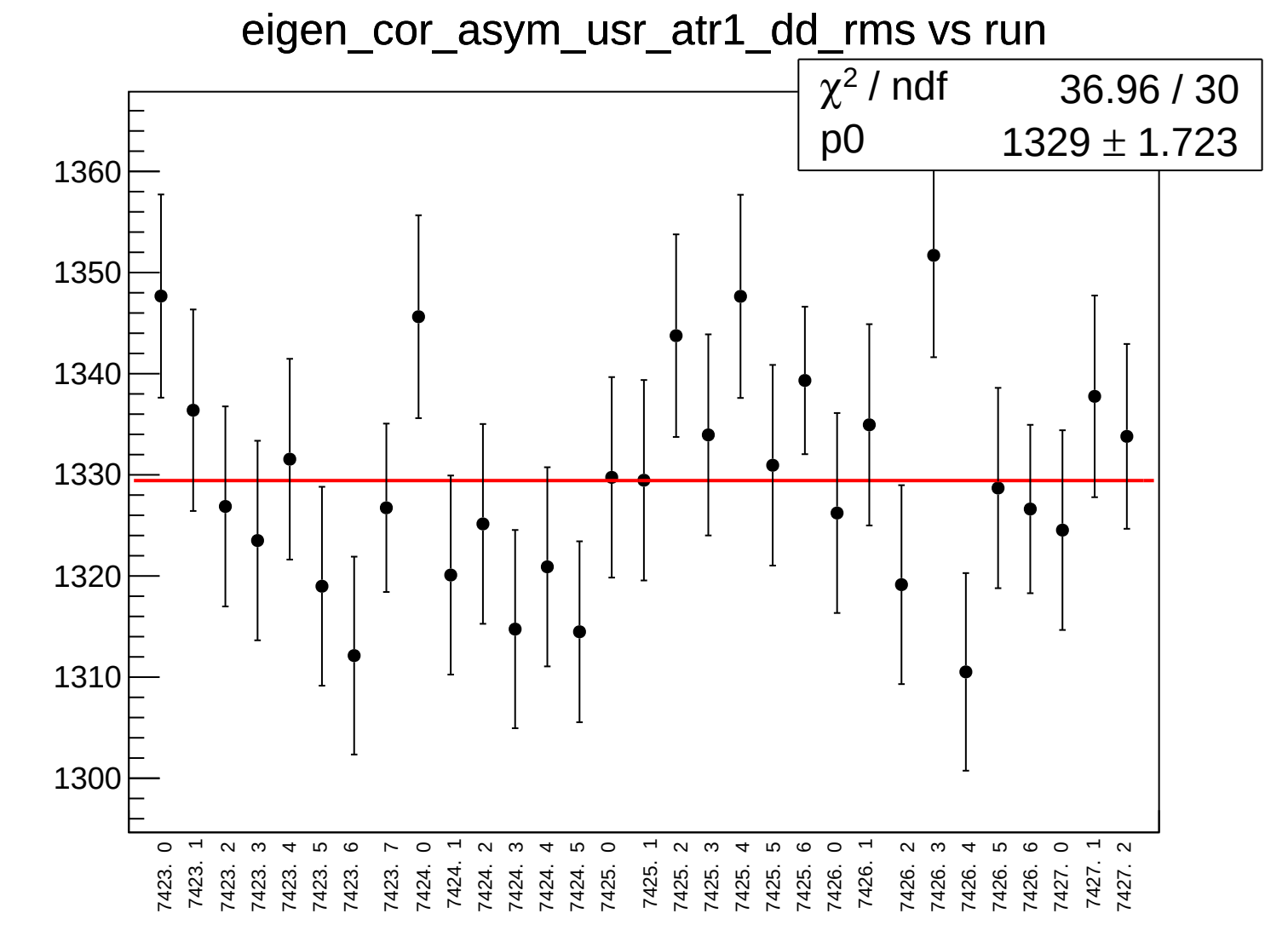

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 44.05 / 30
p0 −1049 ± 1043
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 103.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

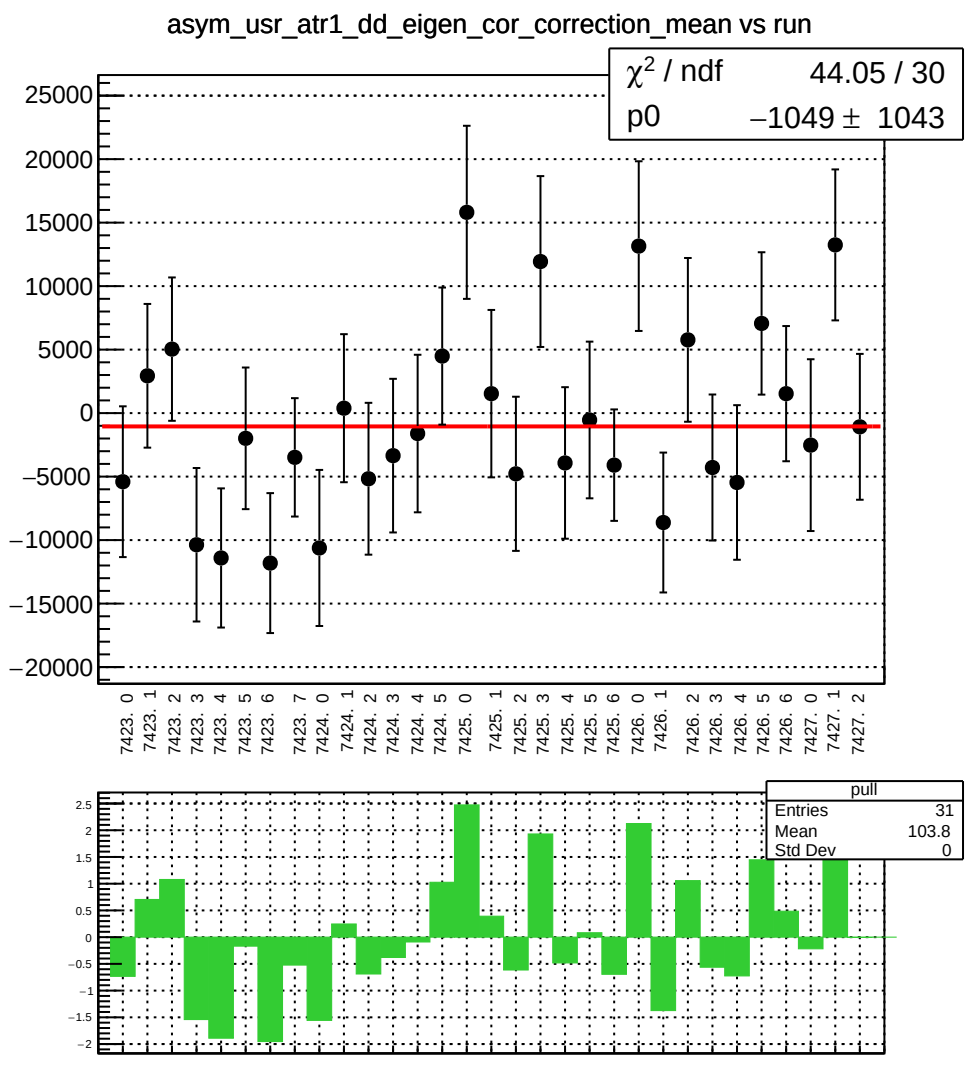

pull1D
Entries 31
Mean 0.04032
Std Dev 1.191
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

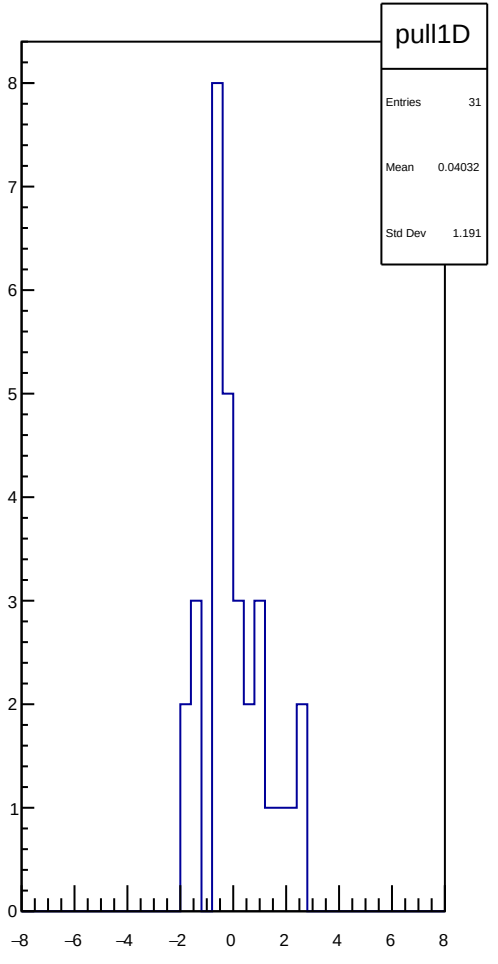

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 2282 / 30
p0 568.2 ± 0.7378
660
640
620
600
580
560
540
520
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

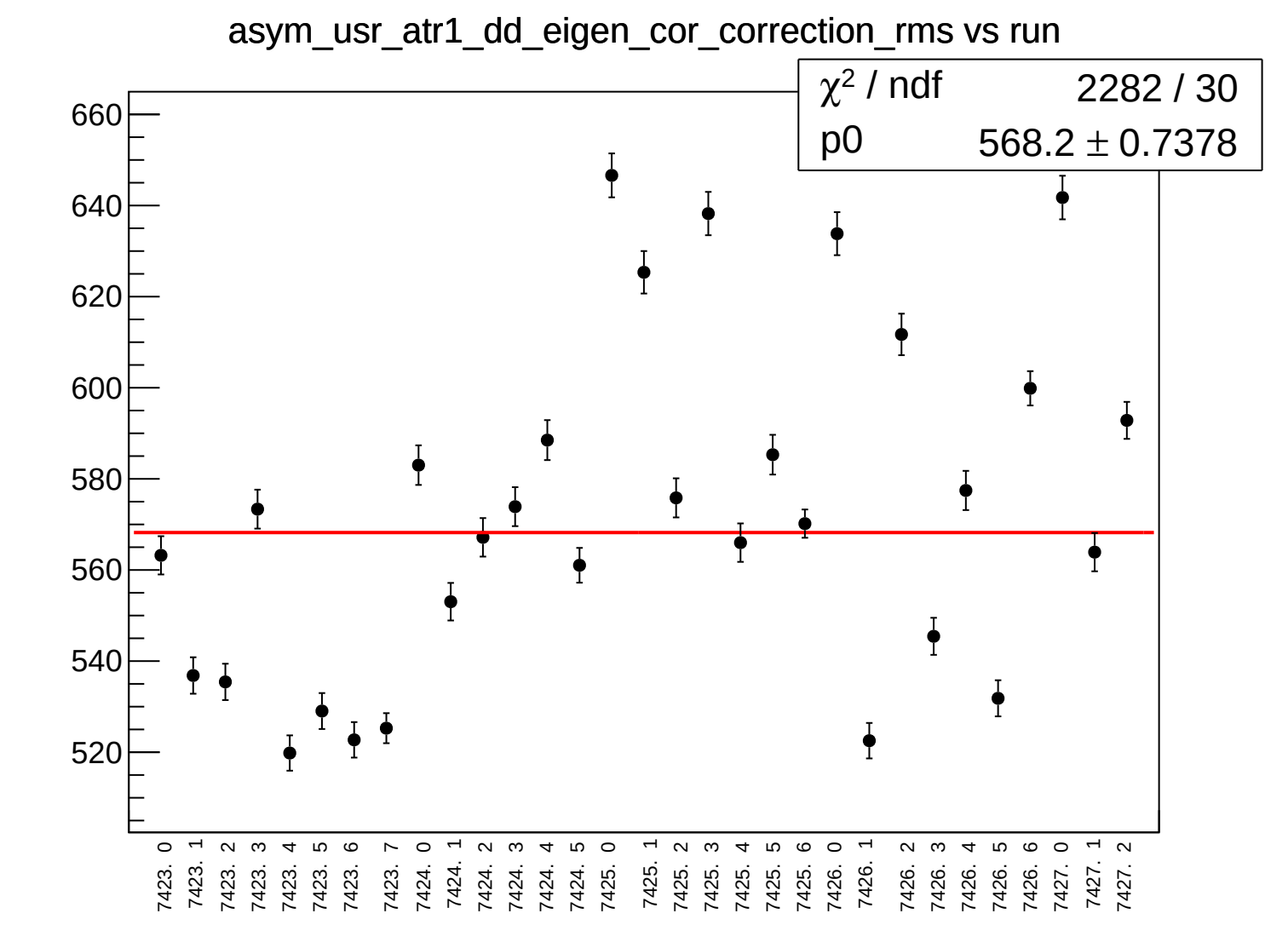

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 35.28 / 30
p0 2938 ± 2436
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −674.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

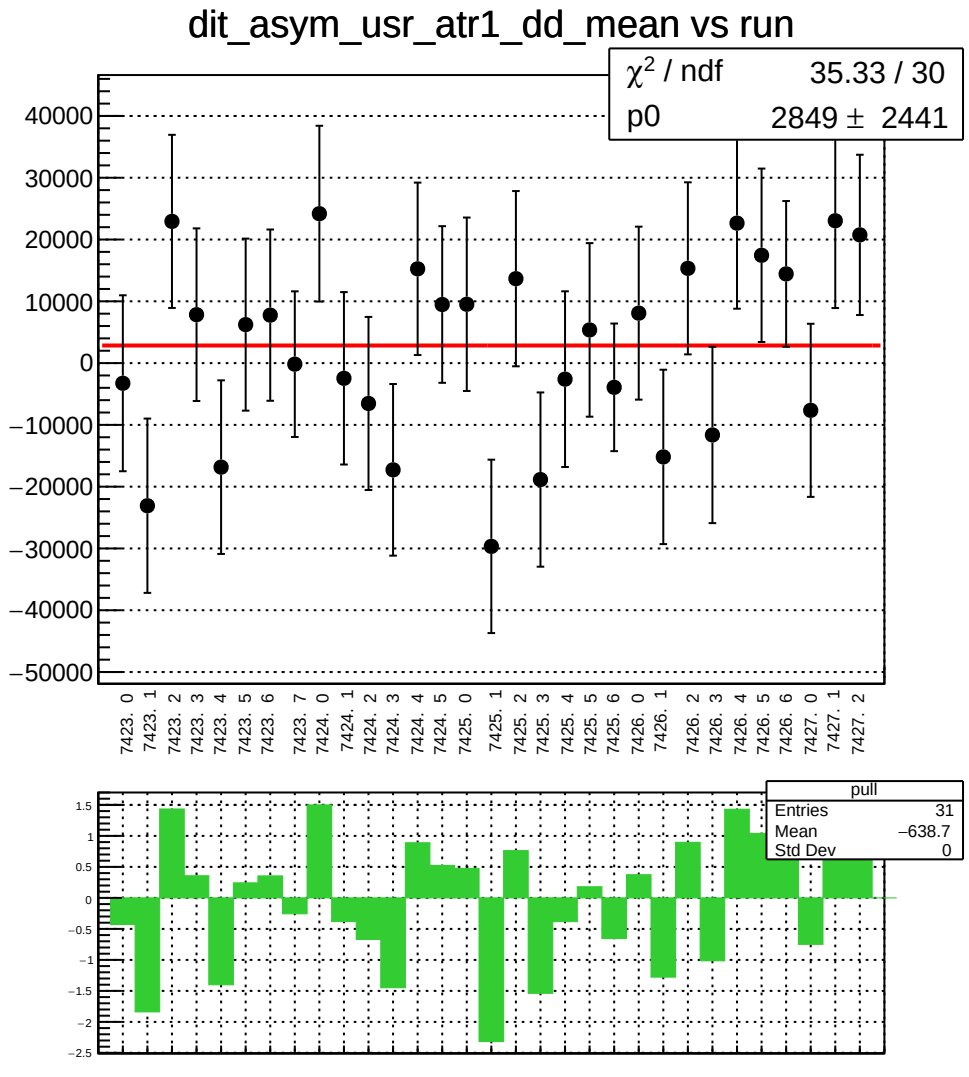

pull1D
Entries 31
Mean −0.003287
Std Dev 1.067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

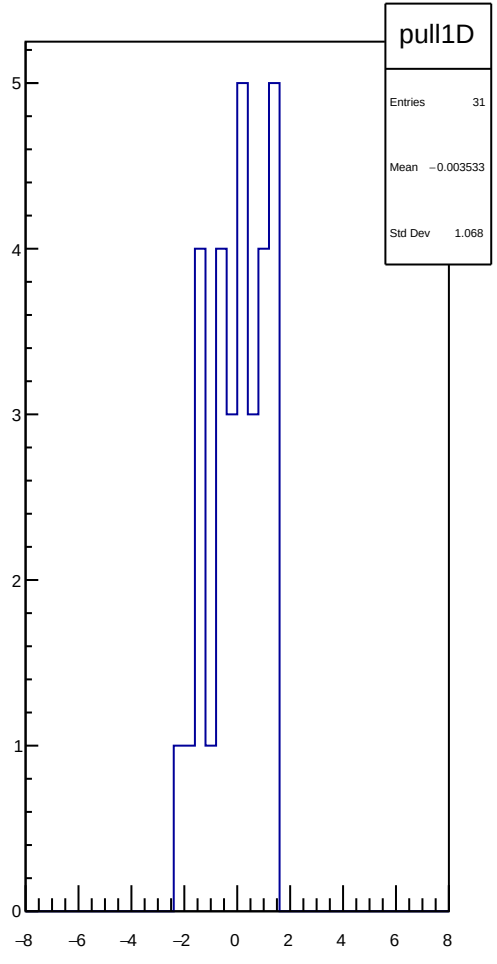

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 36.96 / 30
p0 1329 ± 1.723
1360
1350
1340
1330
1320
1310
1300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

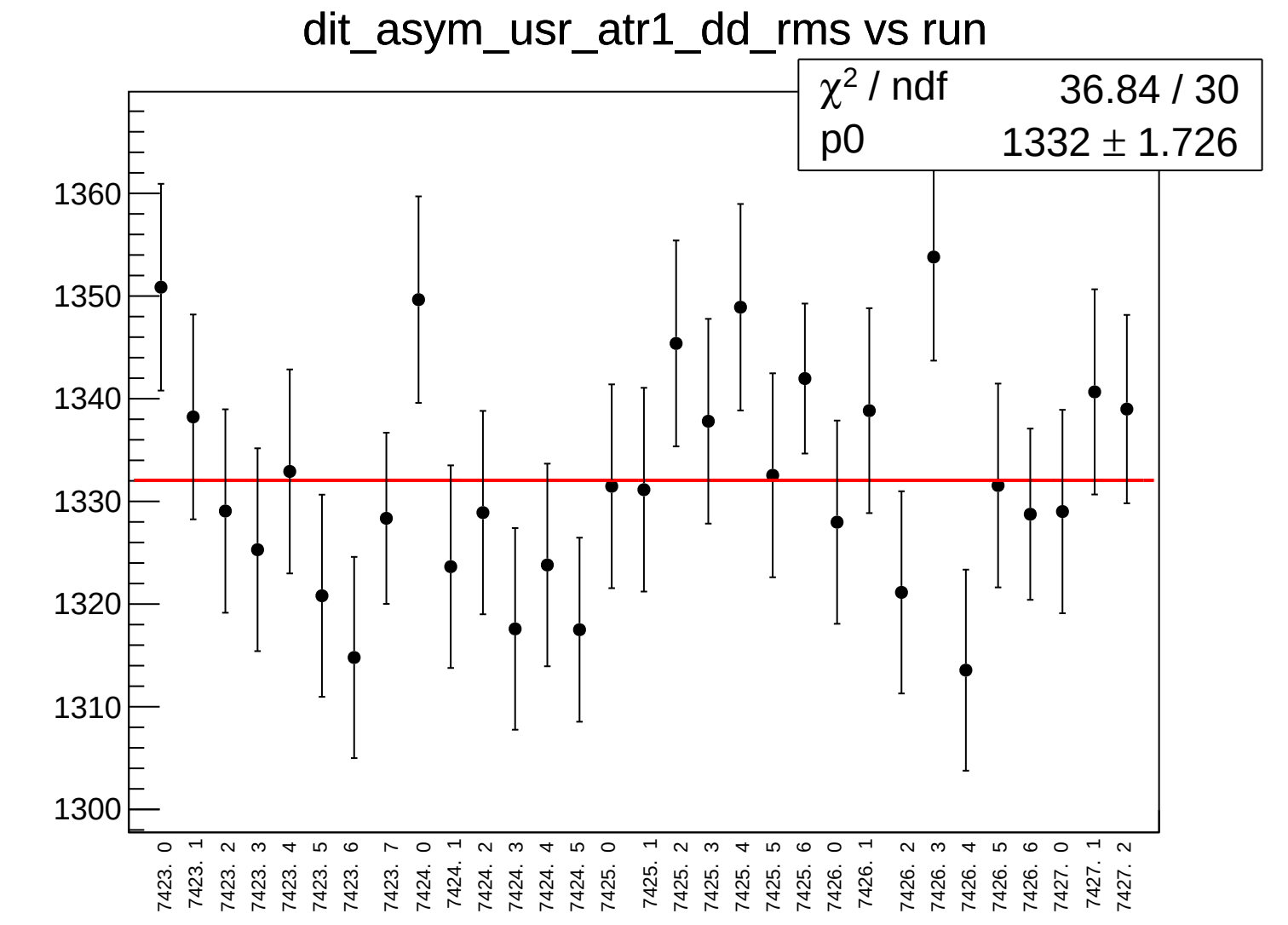

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 44.05 / 30
p0 −1049 ± 1043
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 103.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

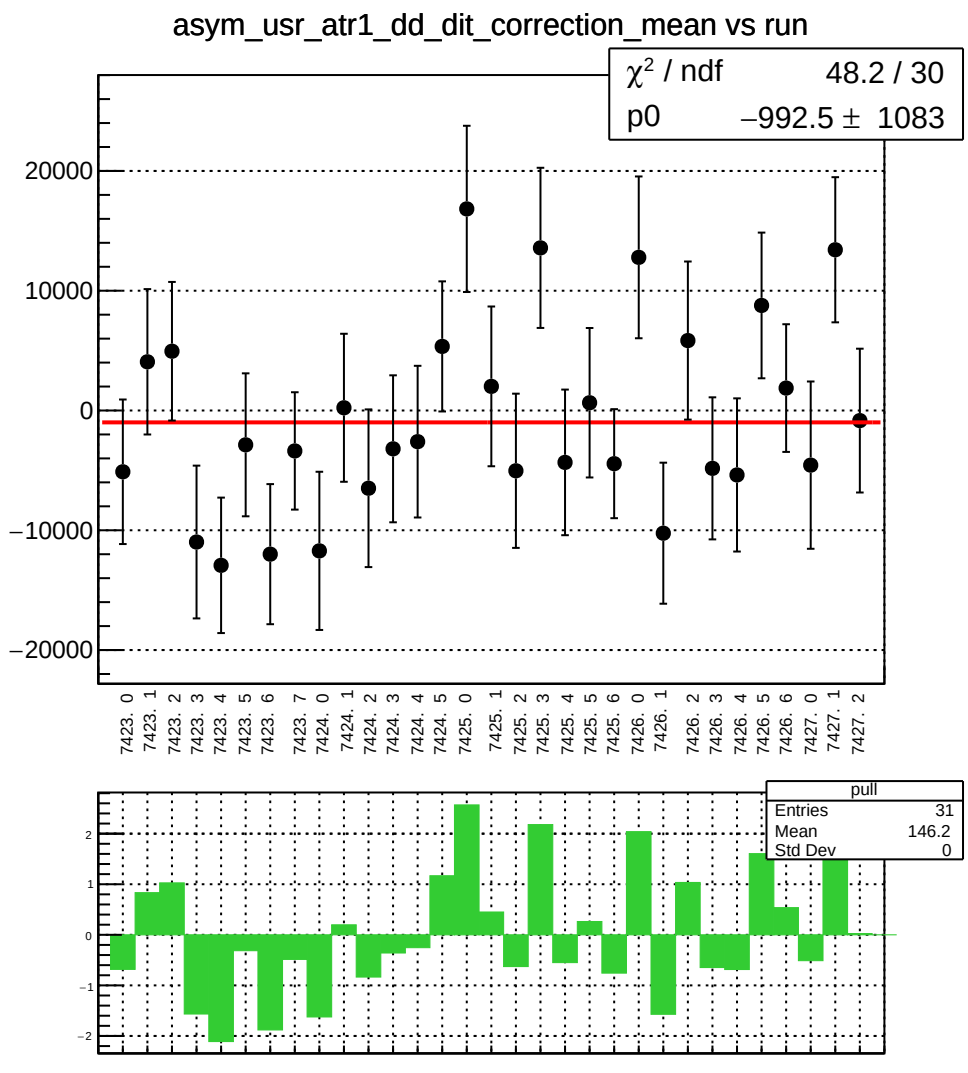

pull1D
Entries 31
Mean 0.04032
Std Dev 1.191
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

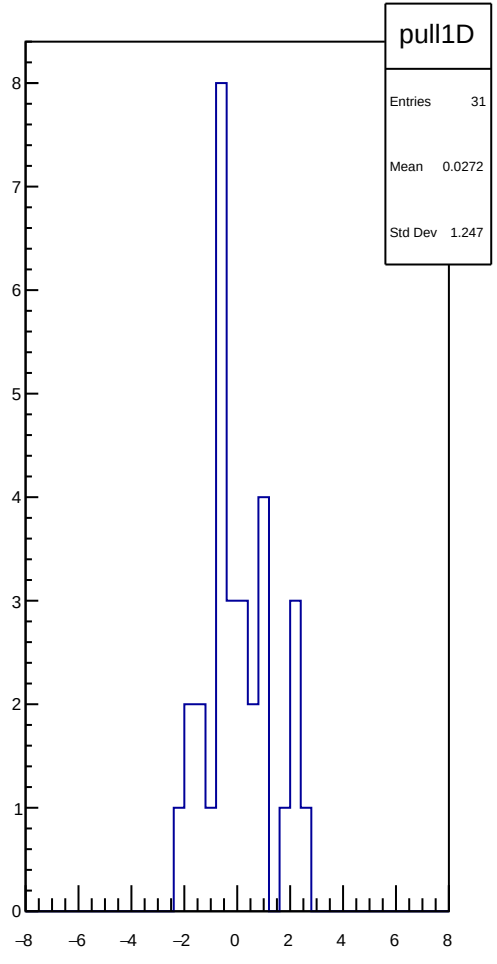

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2282 / 30
p0 568.2 ± 0.7378
660
640
620
600
580
560
540
520
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

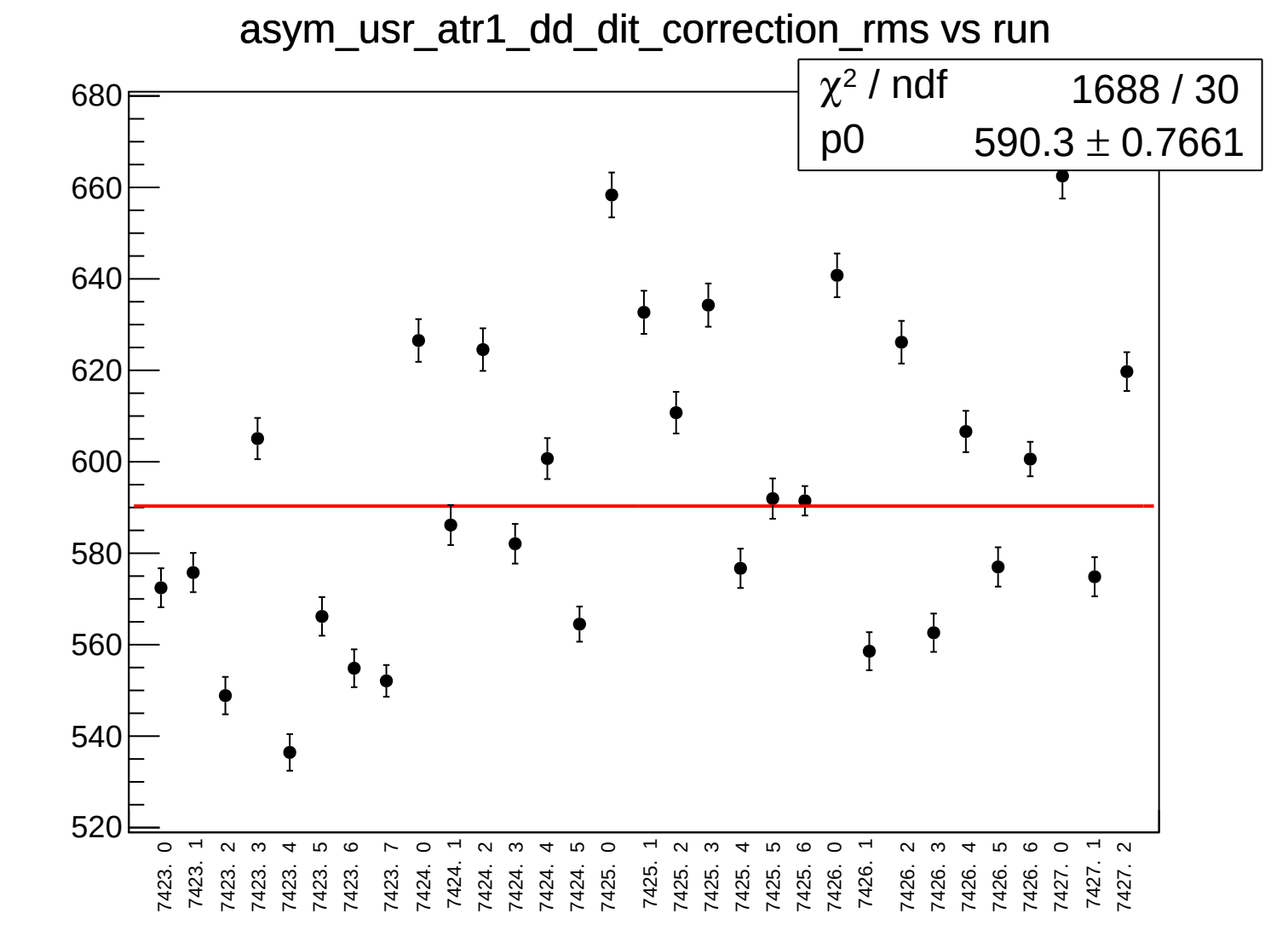

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 35.33 / 30
p0 2849 ± 2441
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −638.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

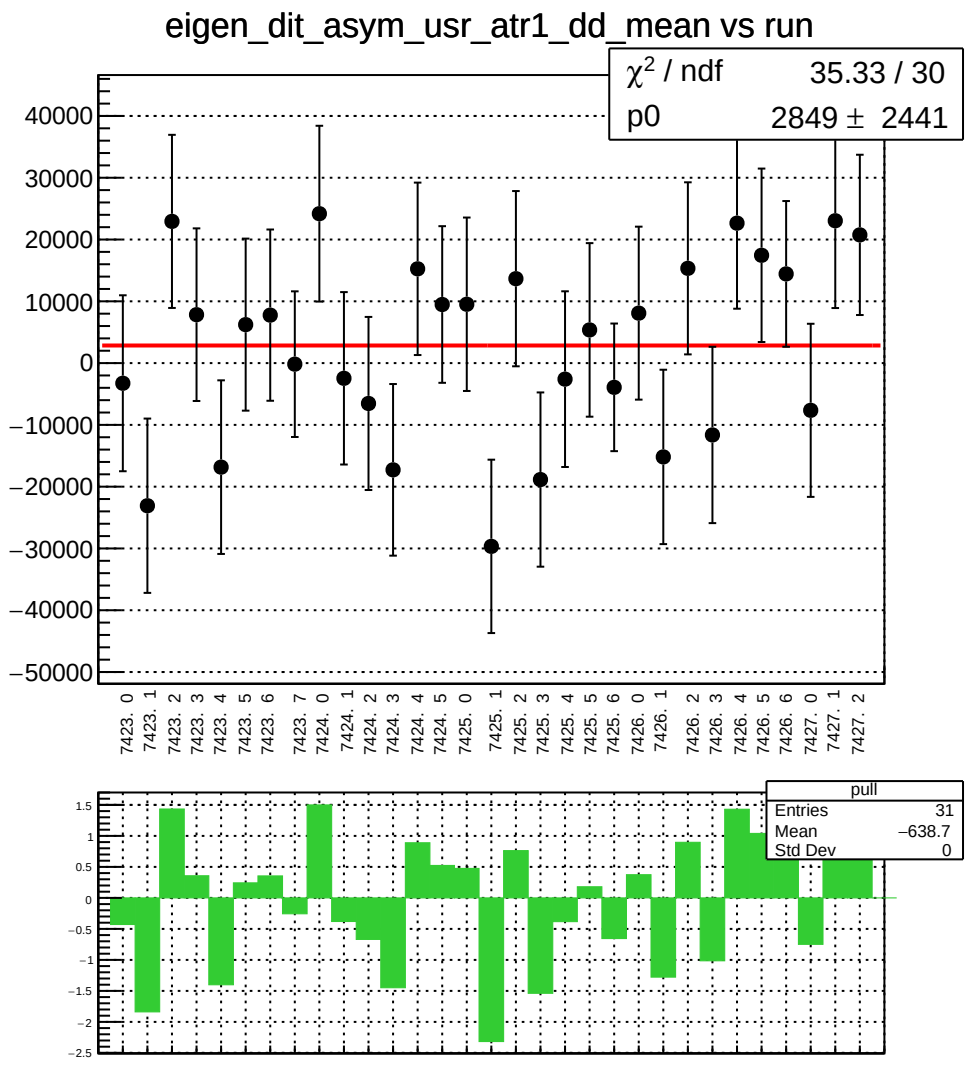

pull1D
Entries 31
Mean −0.003533
Std Dev 1.068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

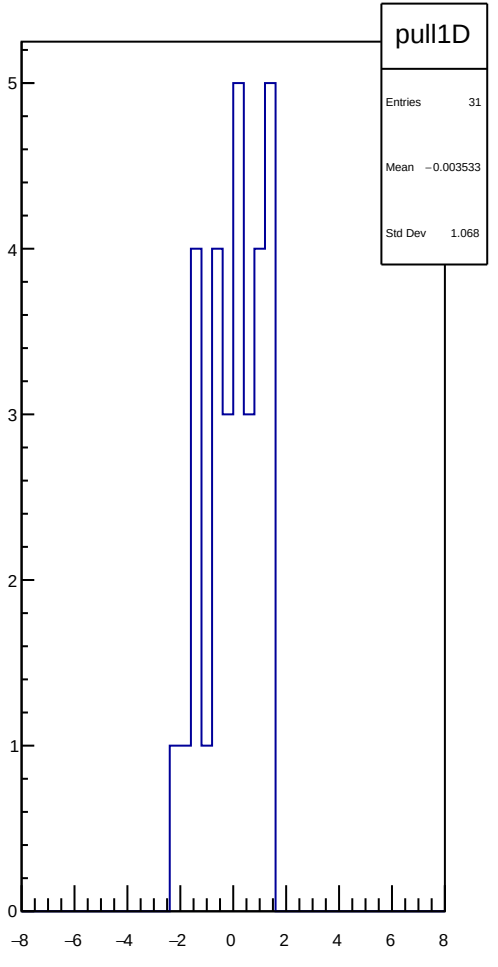

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 36.84 / 30
p0 1332 ± 1.726
1360
1350
1340
1330
1320
1310
1300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

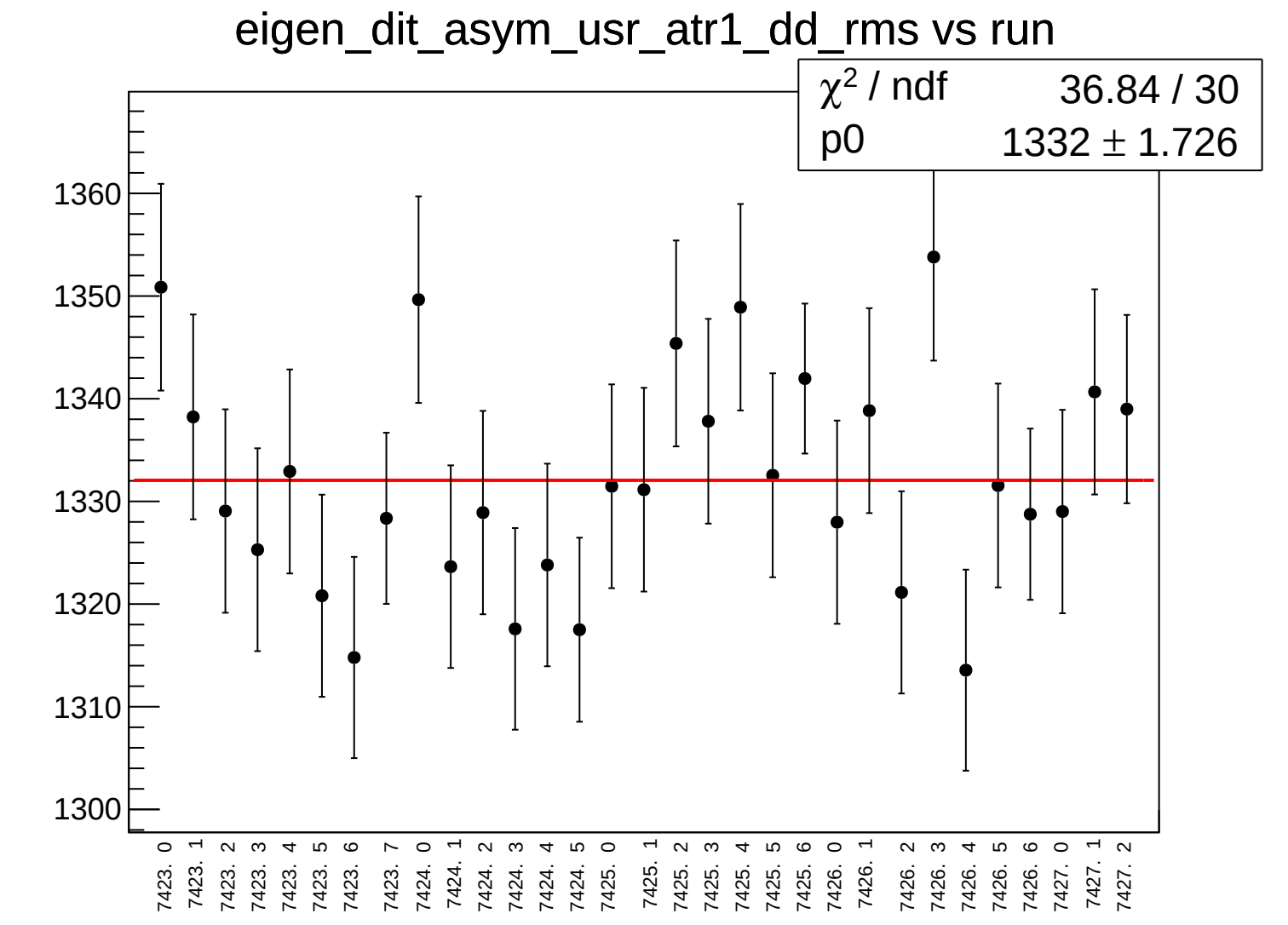

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 48.2 / 30
p0 −992.5 ± 1083
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 146.2
Std Dev 0
2
1
0
−1
−2

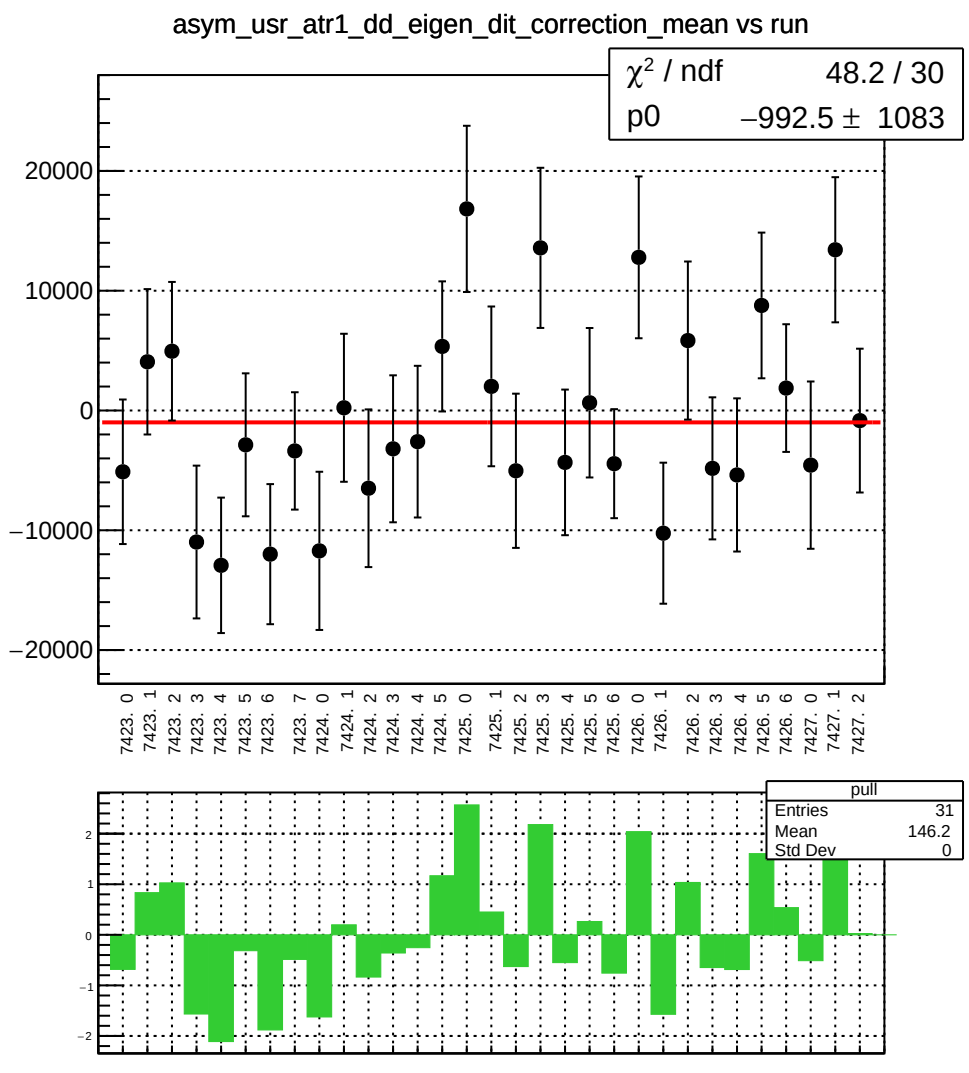

pull1D
Entries 31
Mean 0.0272
Std Dev 1.247
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

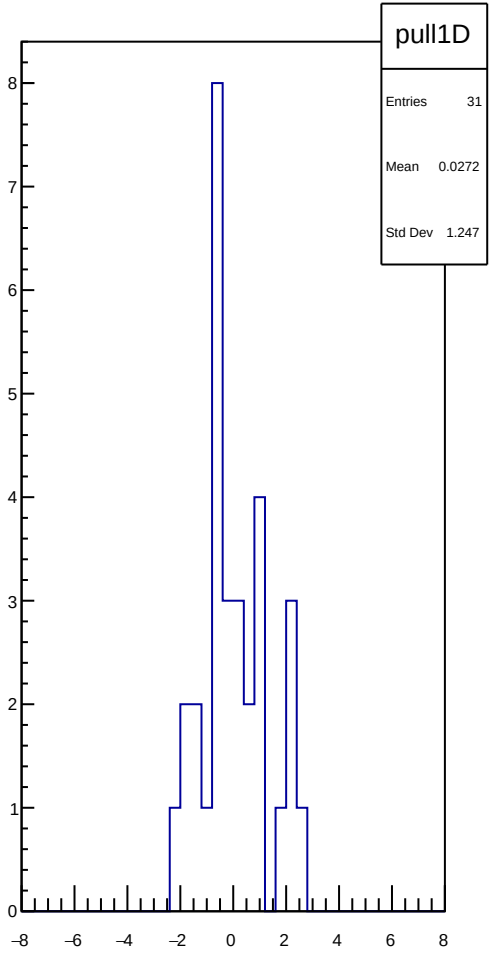

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1688 / 30
p0 590.3 ± 0.7661
680
660
640
620
600
580
560
540
520
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

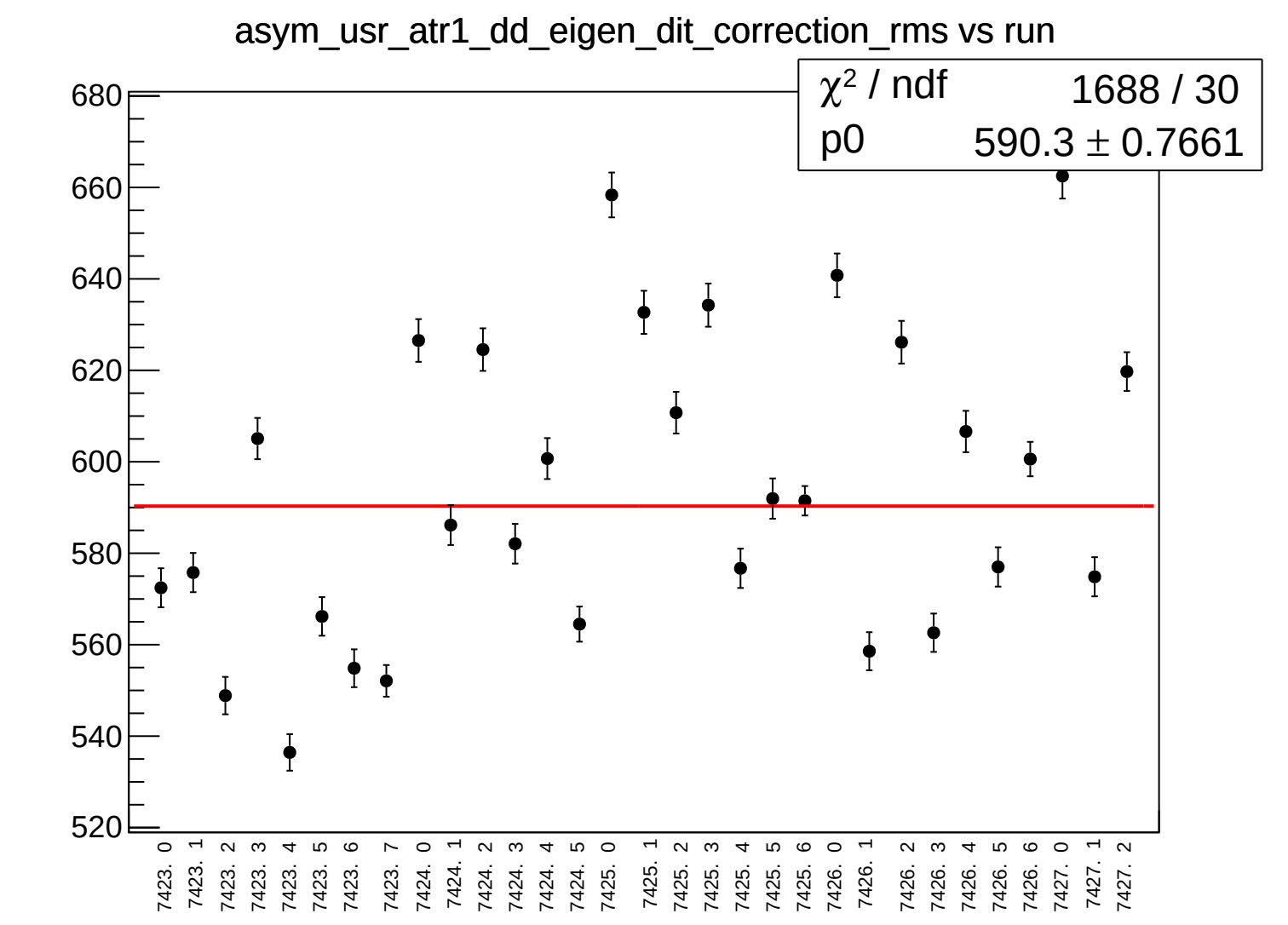

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 35.33 / 30
p0 2849 ± 2441
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −638.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

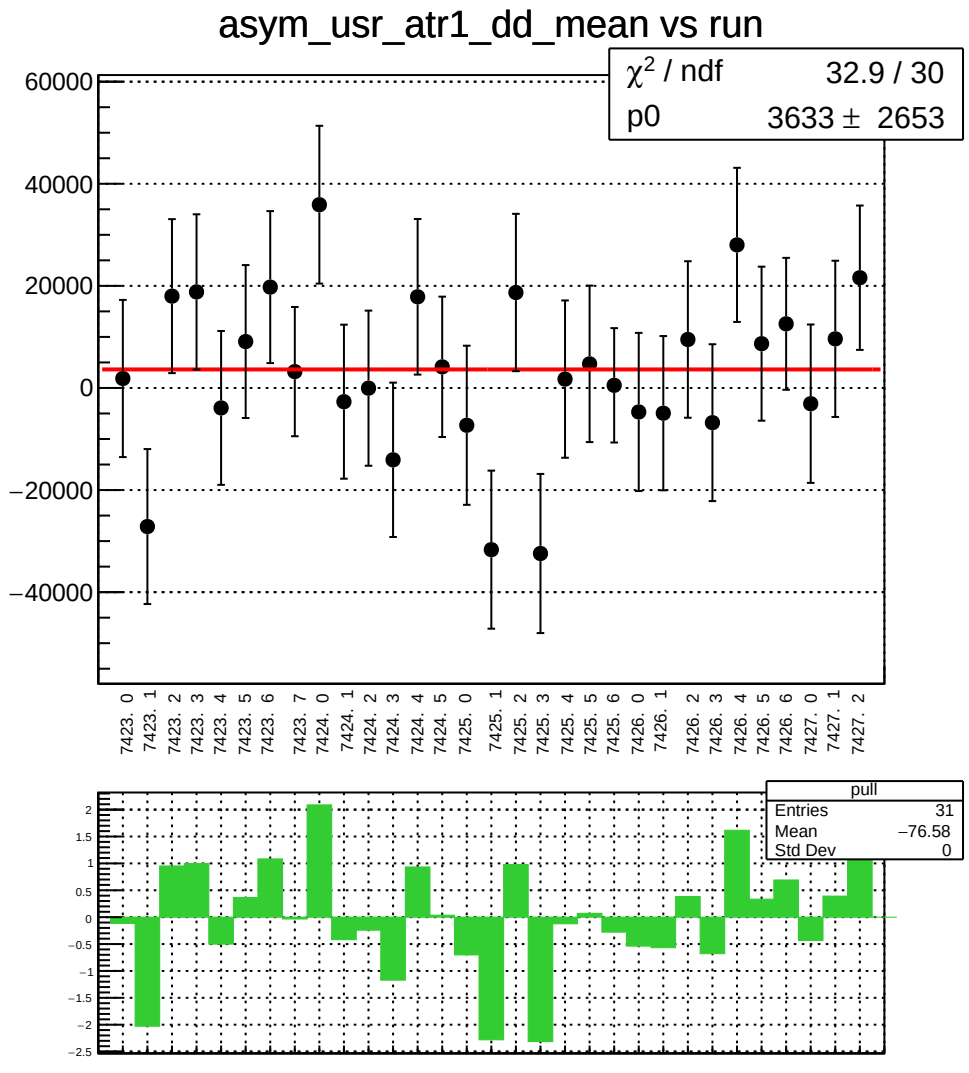

pull1D
Entries 31
Mean −0.003533
Std Dev 1.068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

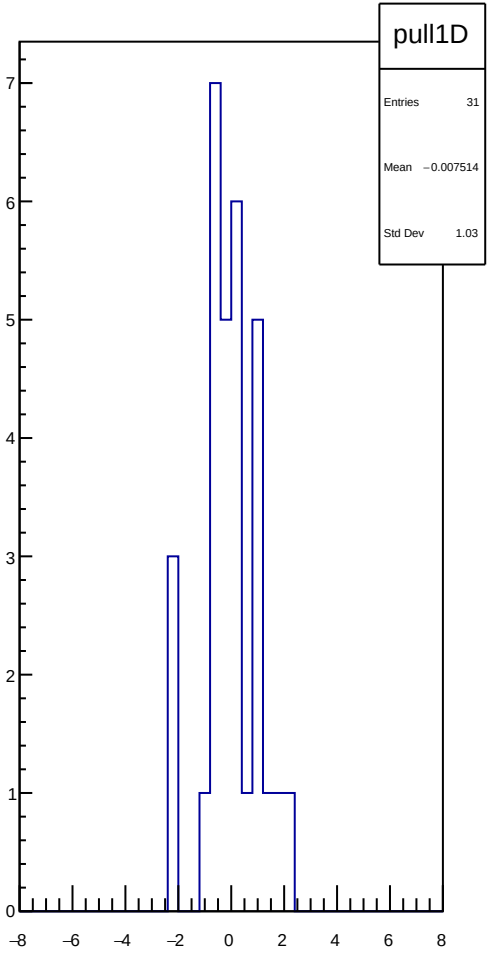

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 36.84 / 30
p0 1332 ± 1.726
1360
1350
1340
1330
1320
1310
1300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

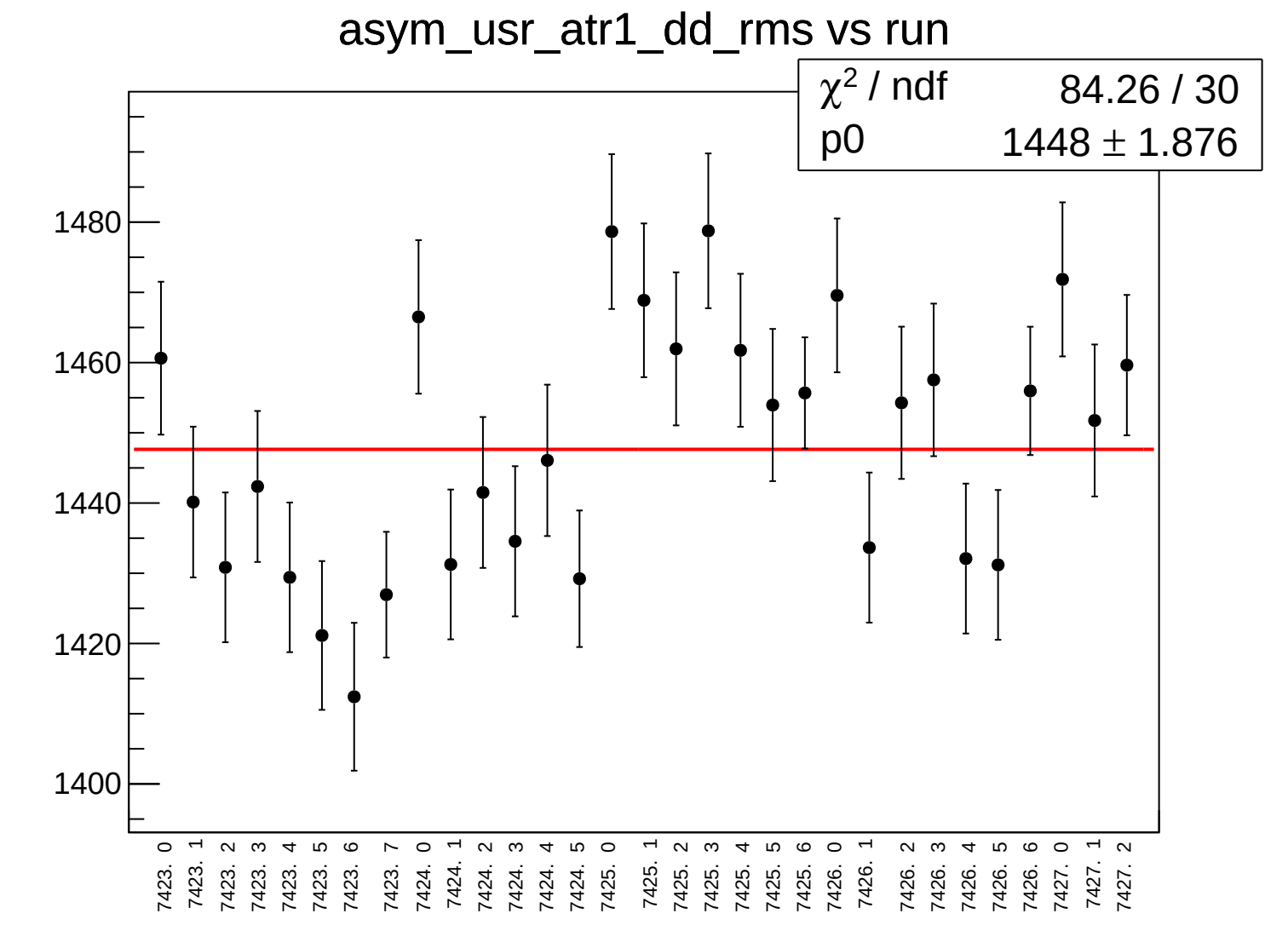

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 48.2 / 30
p0 −992.5 ± 1083
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 146.2
Std Dev 0
2
1
0
−1
−2

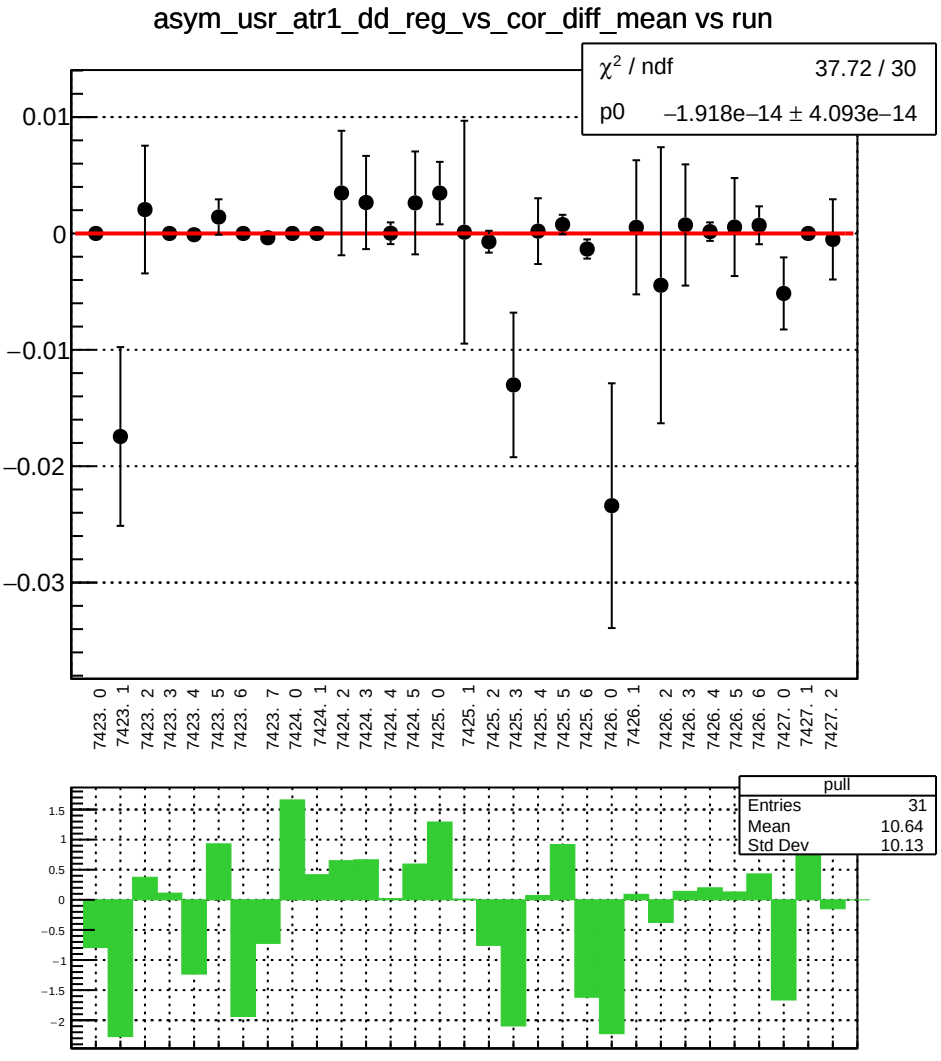

pull1D
Entries 31
Mean 0.0272
Std Dev 1.247
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

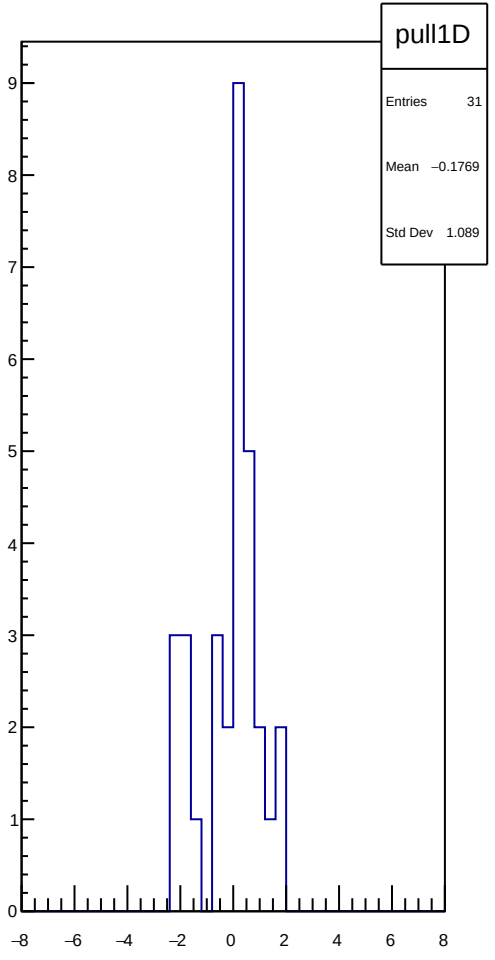

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1688 / 30
p0 590.3 ± 0.7661
680
660
640
620
600
580
560
540
520
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

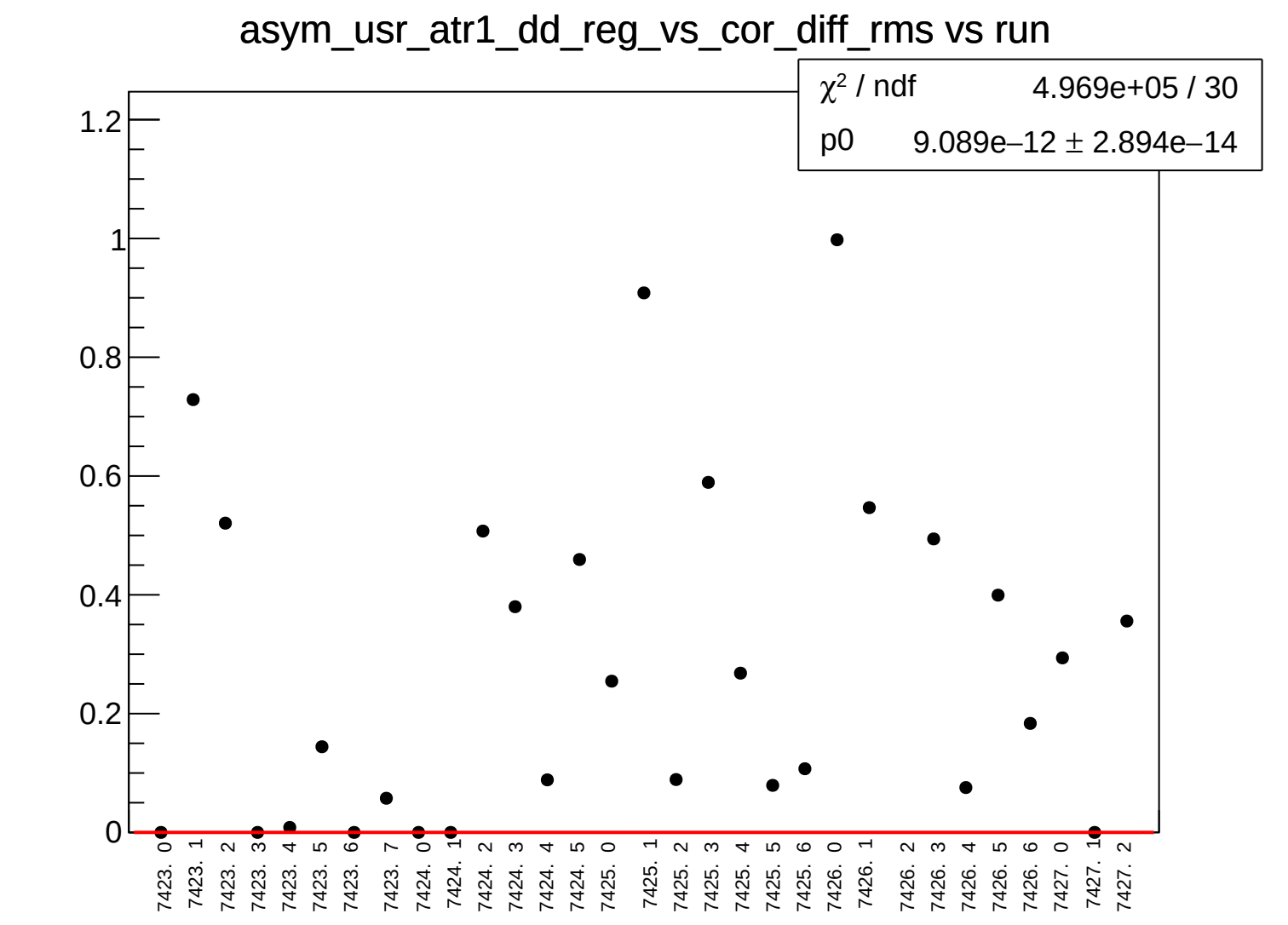

asym_usr_atr1_dd_mean vs run
χ² / ndf 32.9 / 30
p0 3633 ± 2653
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −76.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

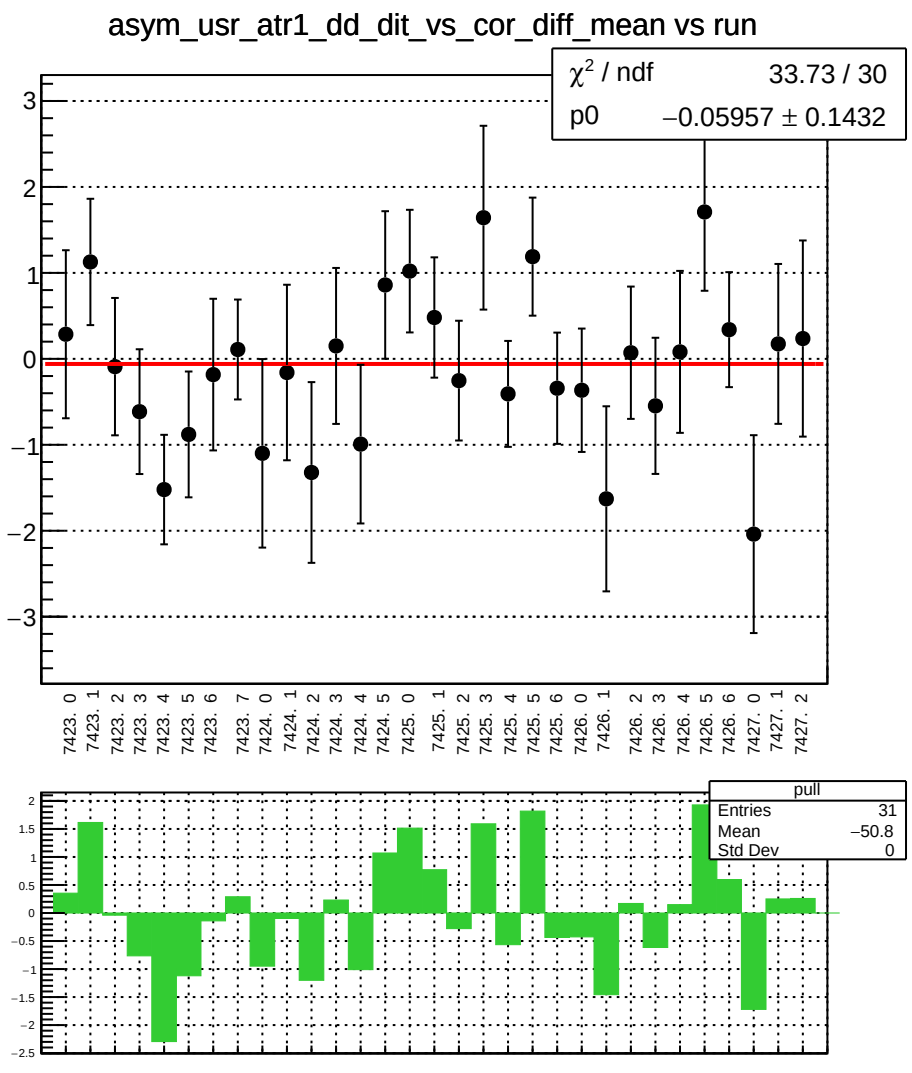

pull1D
Entries 31
Mean −0.007514
Std Dev 1.03
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

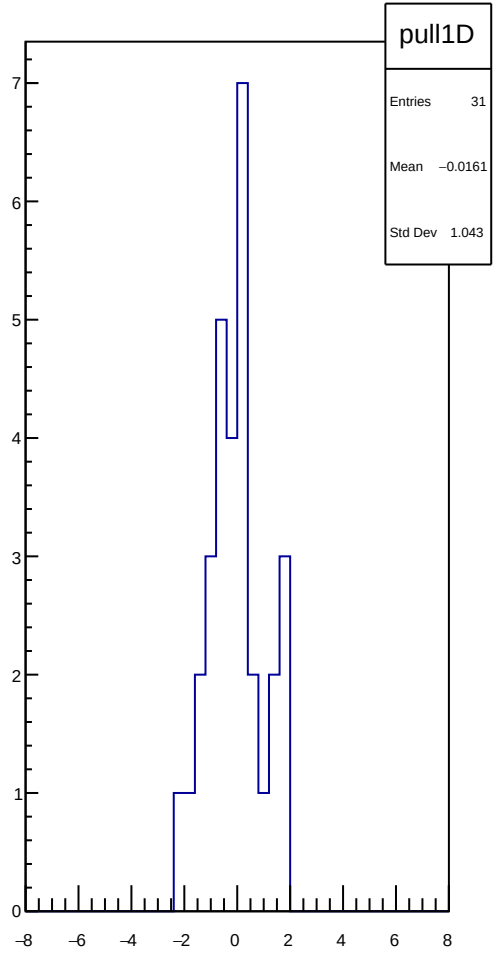

asym_usr_atr1_dd_rms vs run
χ² / ndf 84.26 / 30
p0 1448 ± 1.876
1480
1460
1440
1420
1400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

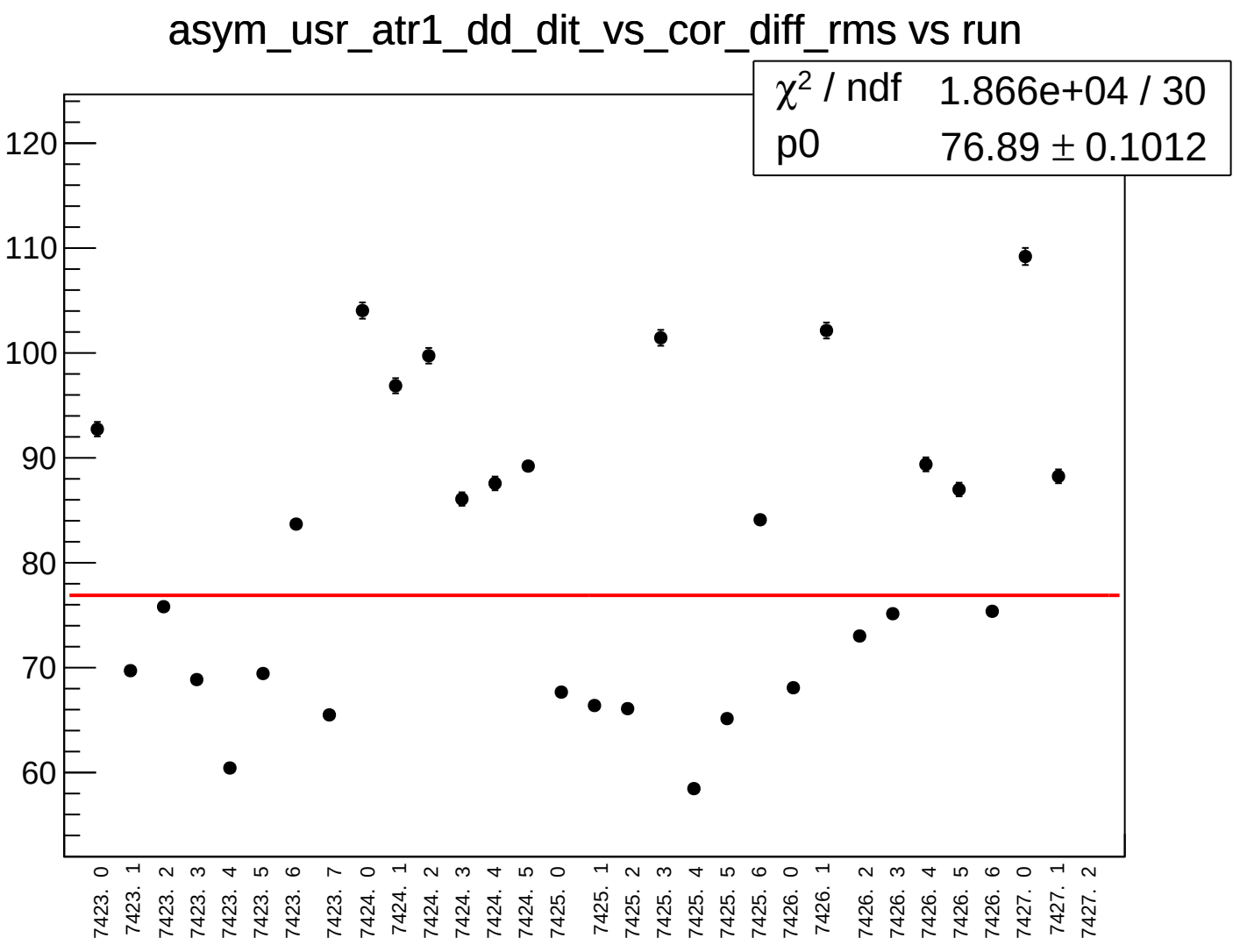

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 37.72 / 30
p0 −1.918e−14 ± 4.093e−14
0.01
0
−0.01
−0.02
−0.03
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 10.64
Std Dev 10.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2

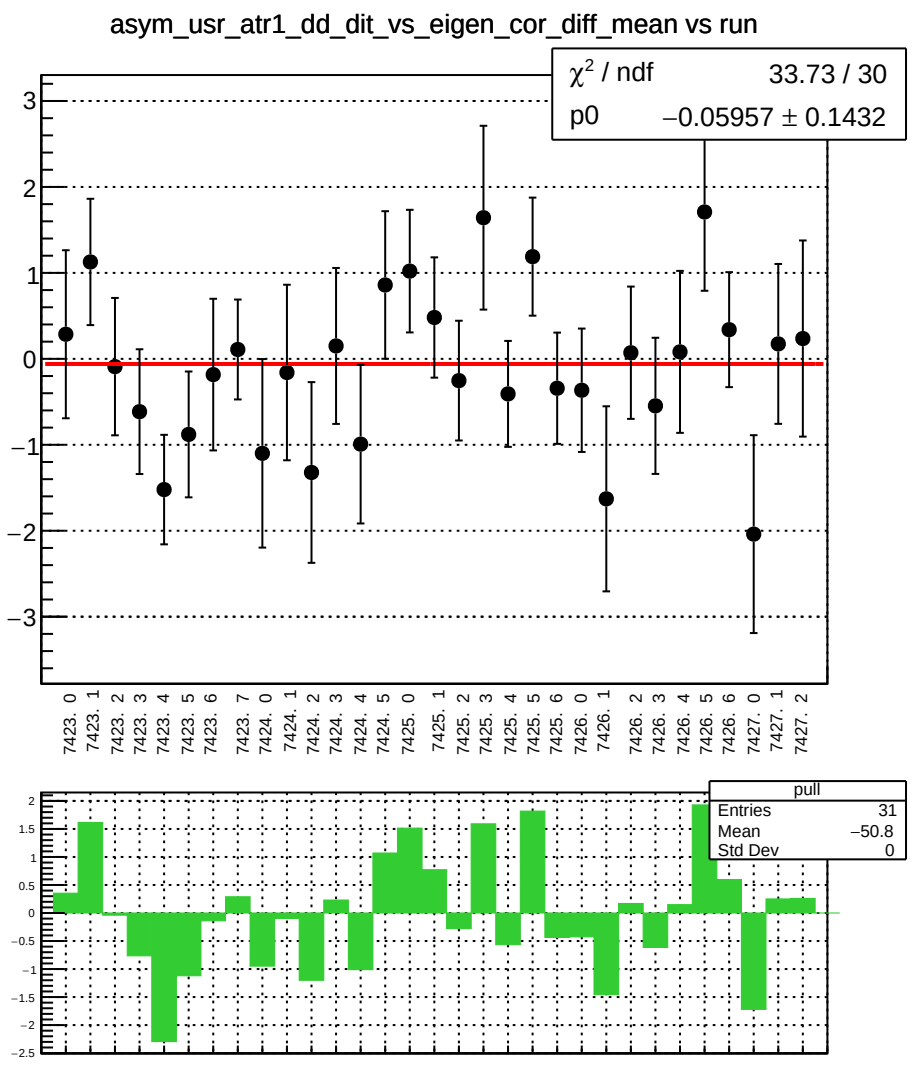

pull1D
Entries 31
Mean −0.1769
Std Dev 1.089
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

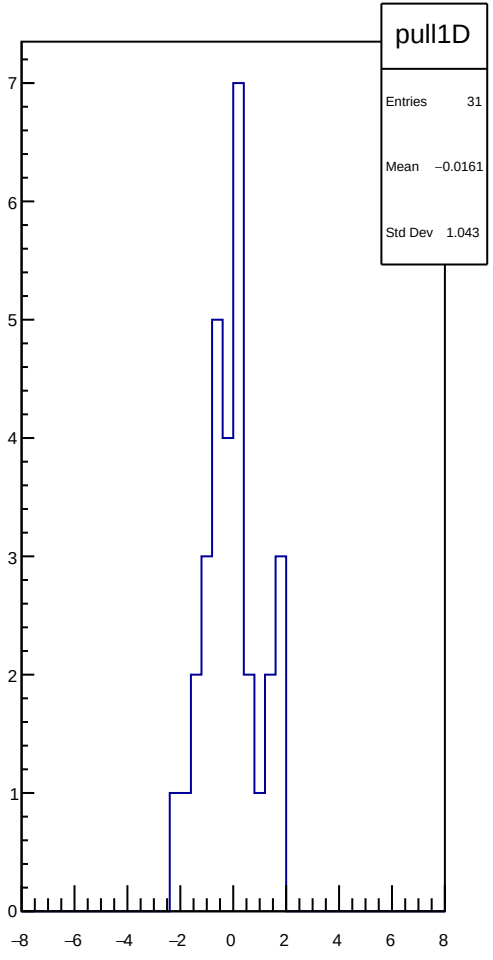

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.969e+05 / 30
p0 9.089e−12 ± 2.894e−14
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

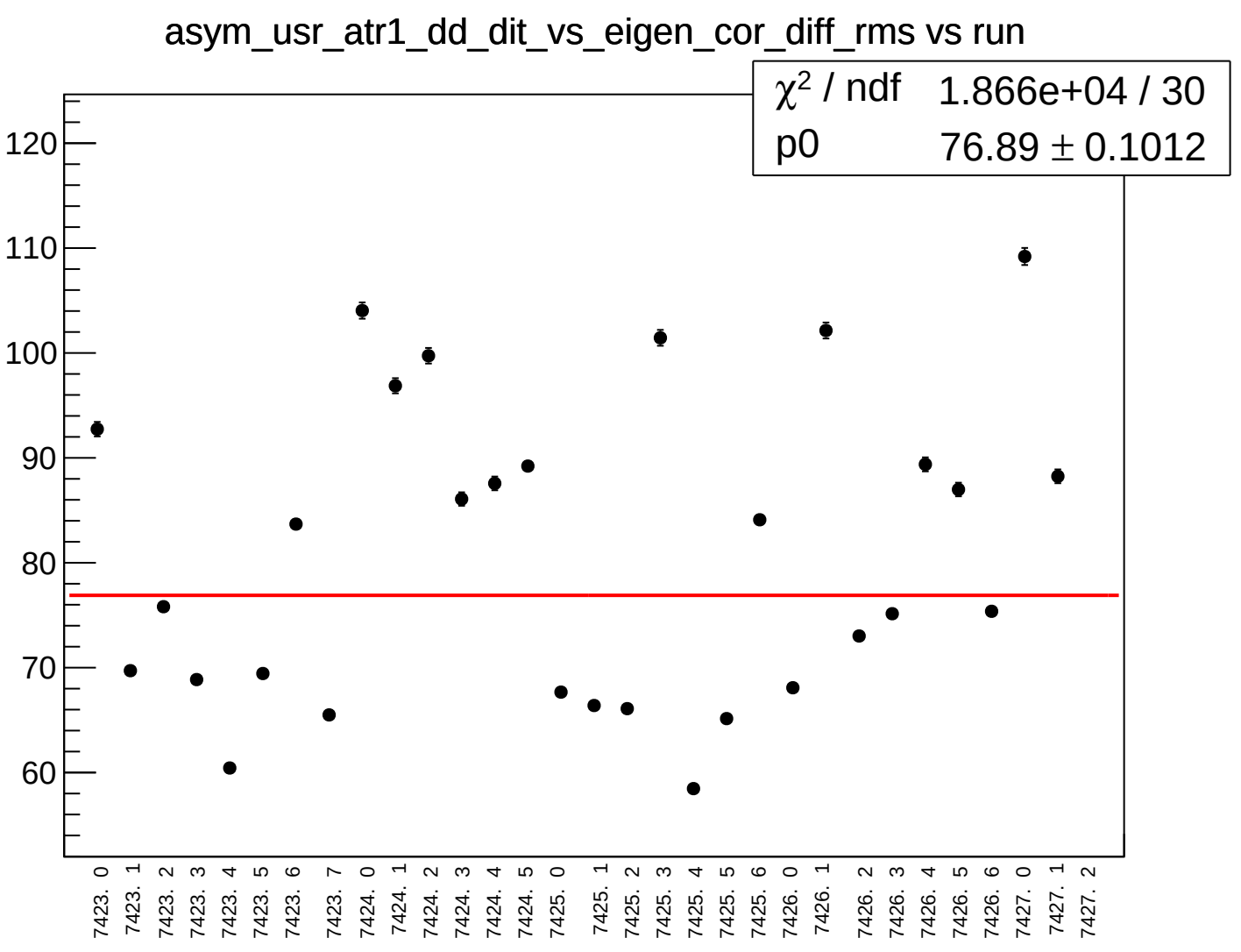

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.73 / 30
p0 −0.05957 ± 0.1432
3
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −50.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

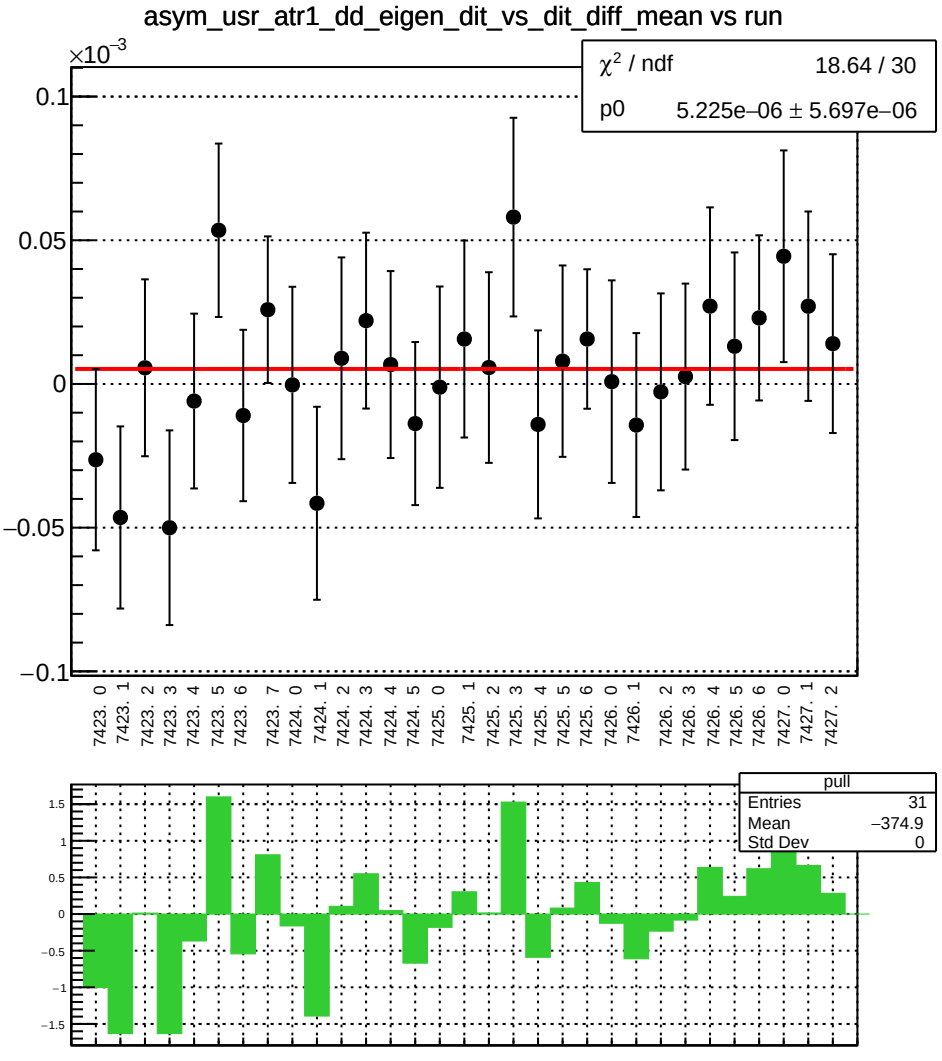

pull1D
Entries 31
Mean −0.0161
Std Dev 1.043
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

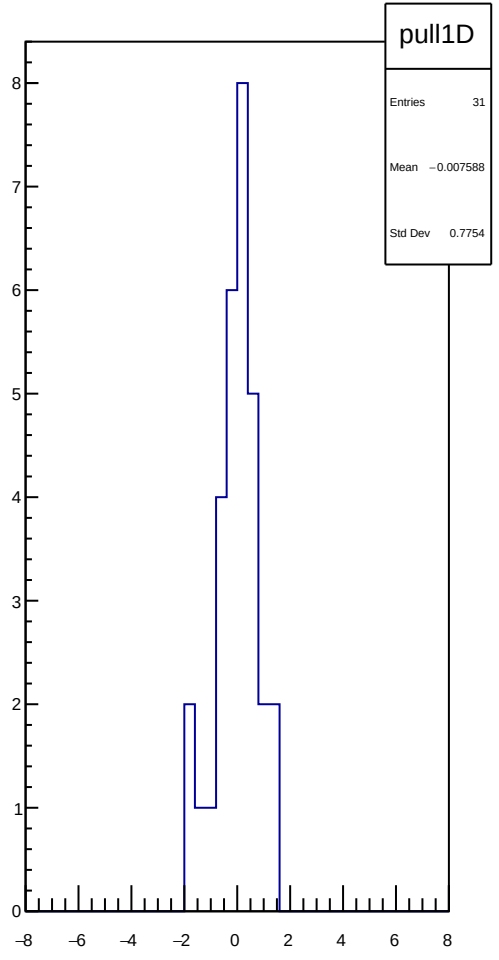

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.866e+04 / 30
p0 76.89 ± 0.1012
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

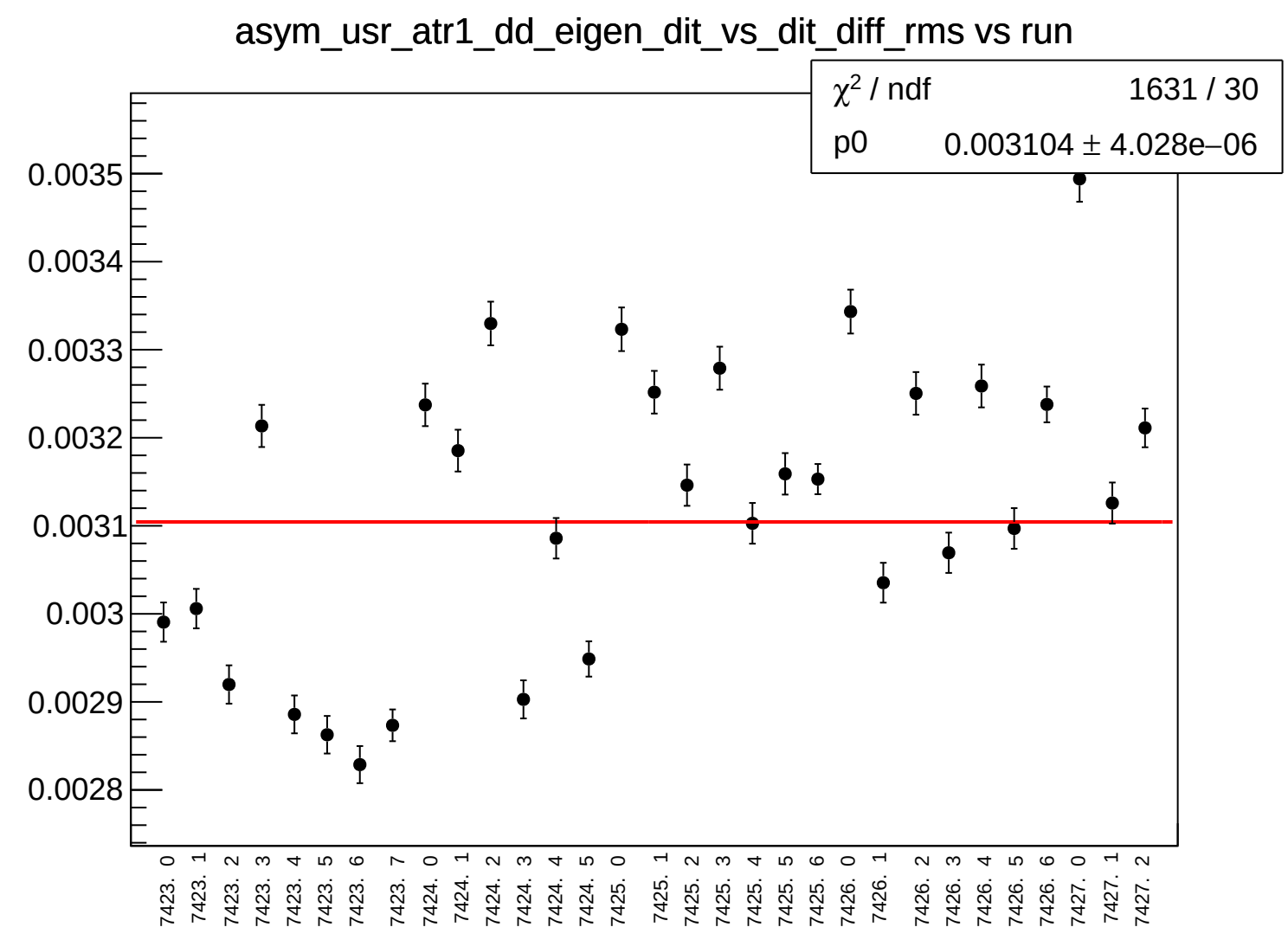

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.73 / 30
p0 −0.05957 ± 0.1432
pull
Entries 31
Mean −50.8
Std Dev 0


pull1D
Entries 31
Mean −0.0161
Std Dev 1.043

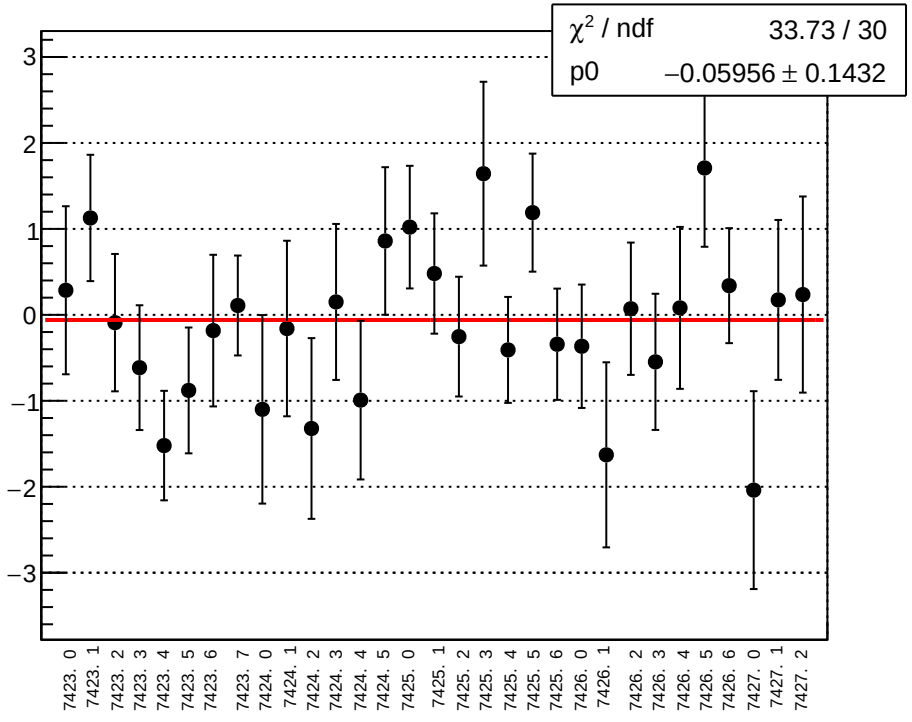

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.866e+04 / 30
p0 76.89 ± 0.1012
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

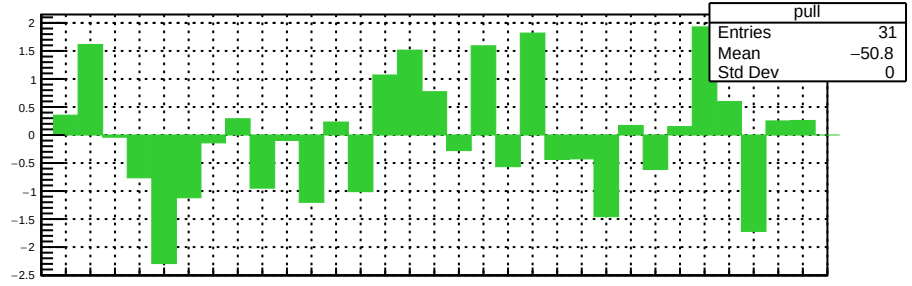

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.64 / 30
p0 5.225e−06 ± 5.697e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −374.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

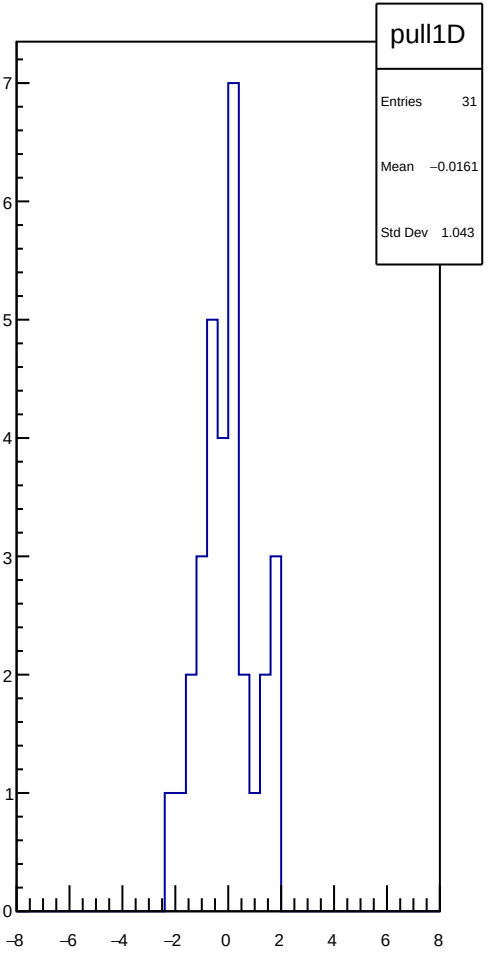

pull1D
Entries 31
Mean −0.007588
Std Dev 0.7754
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

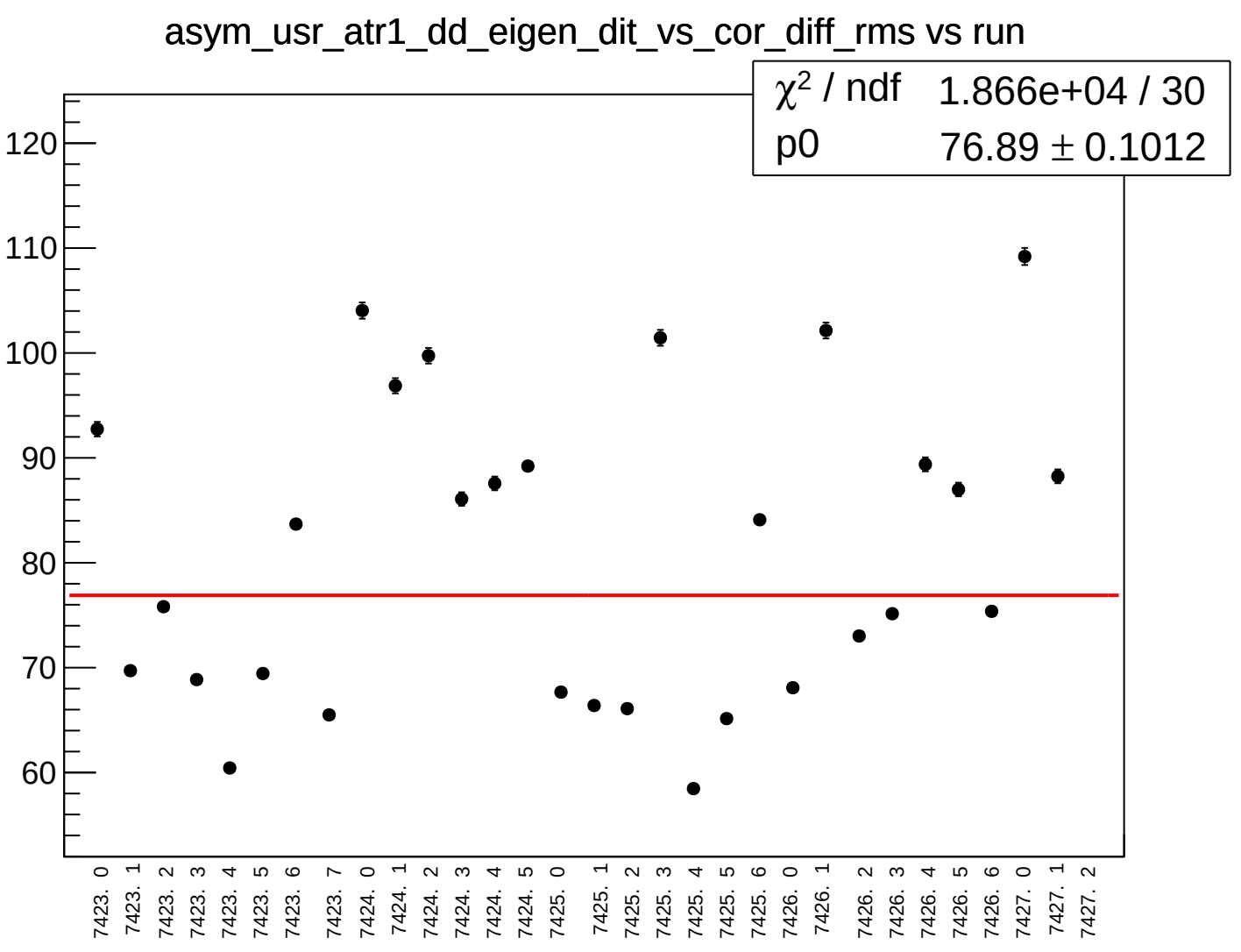

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1631 / 30
p0 0.003104 ± 4.028e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

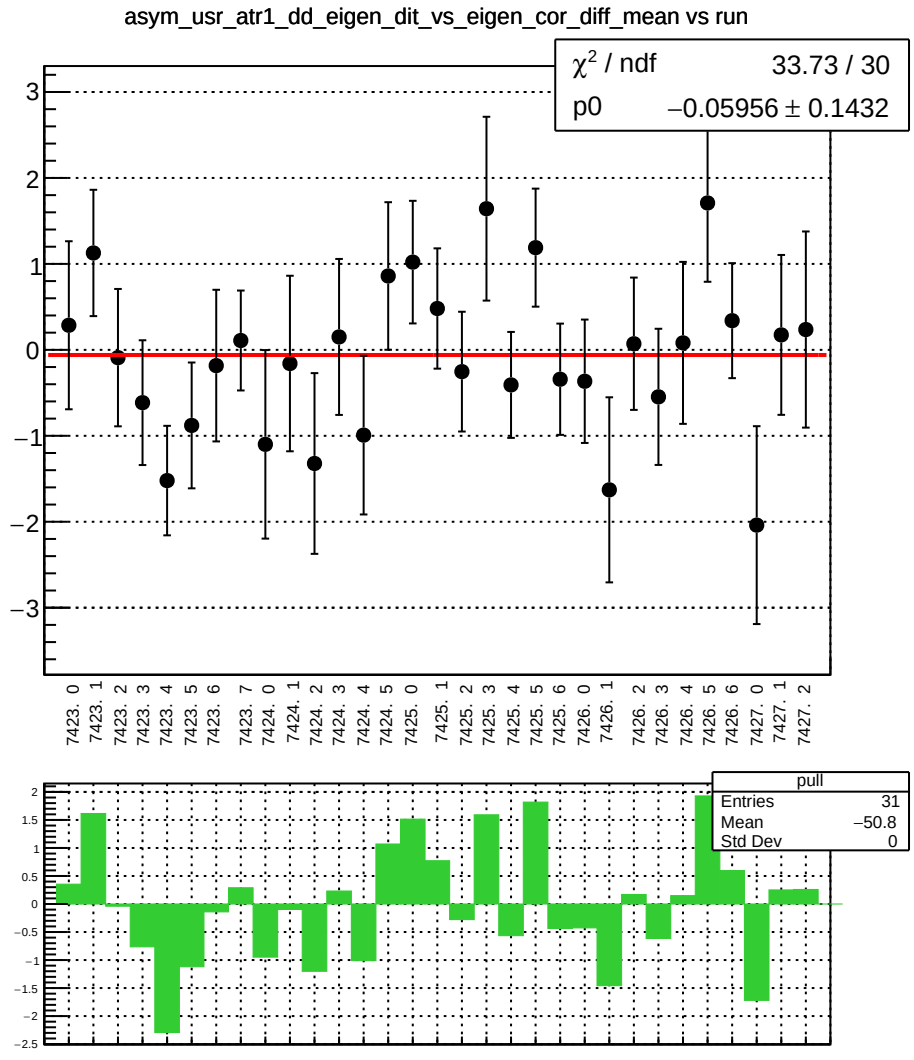
asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run

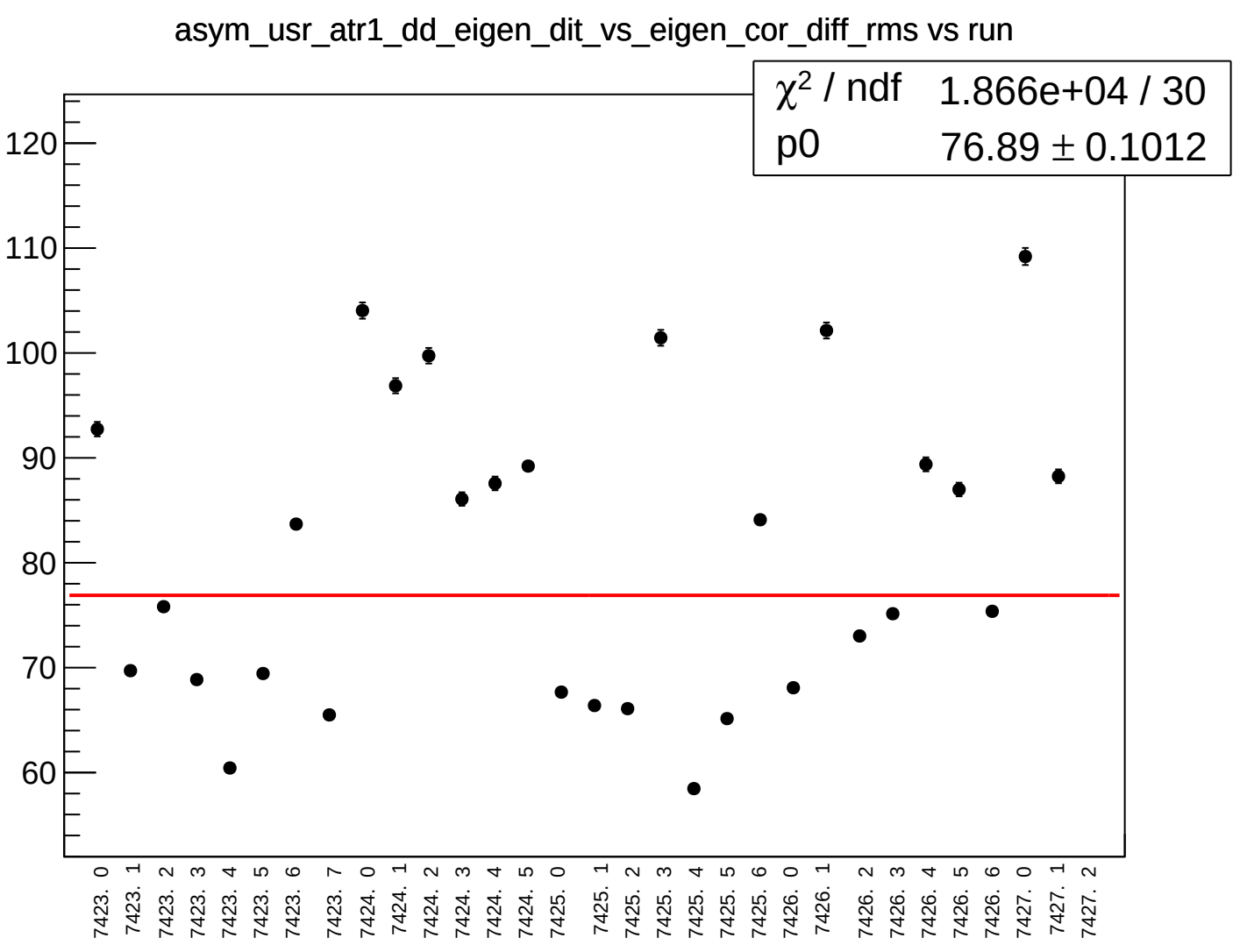


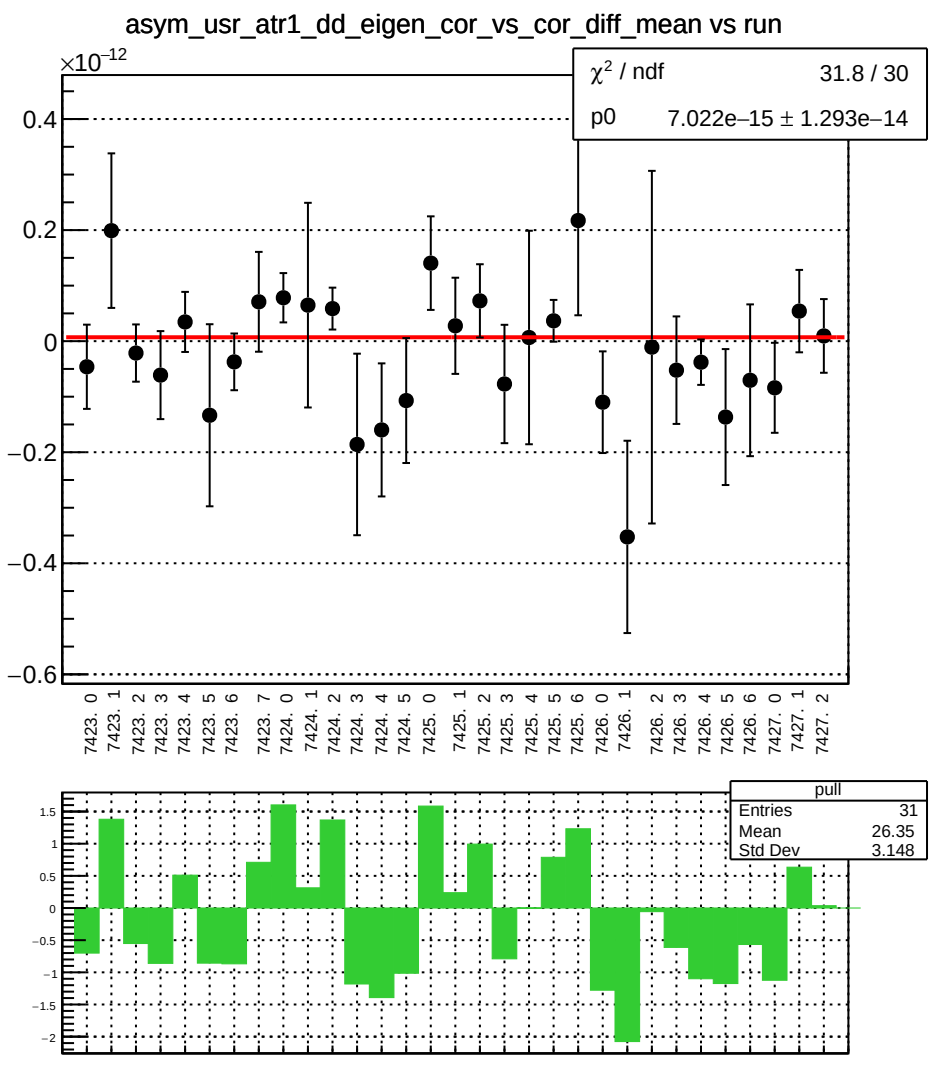


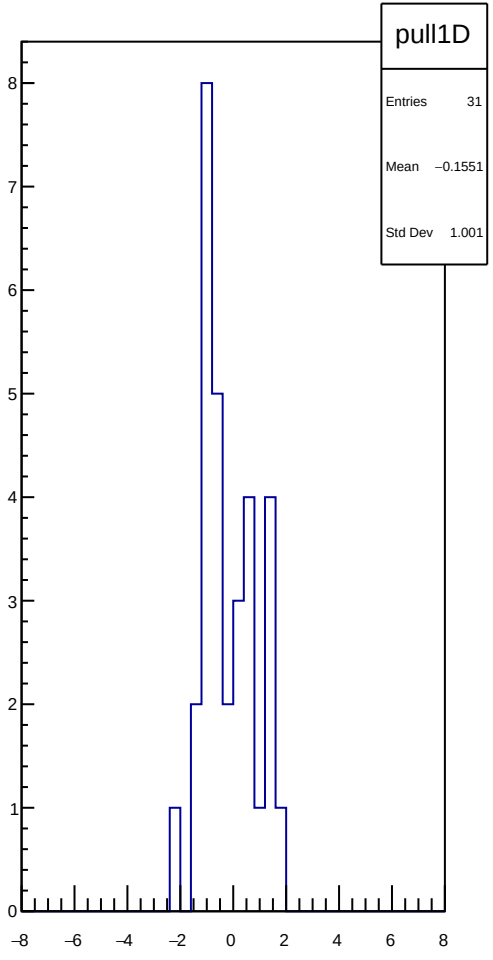


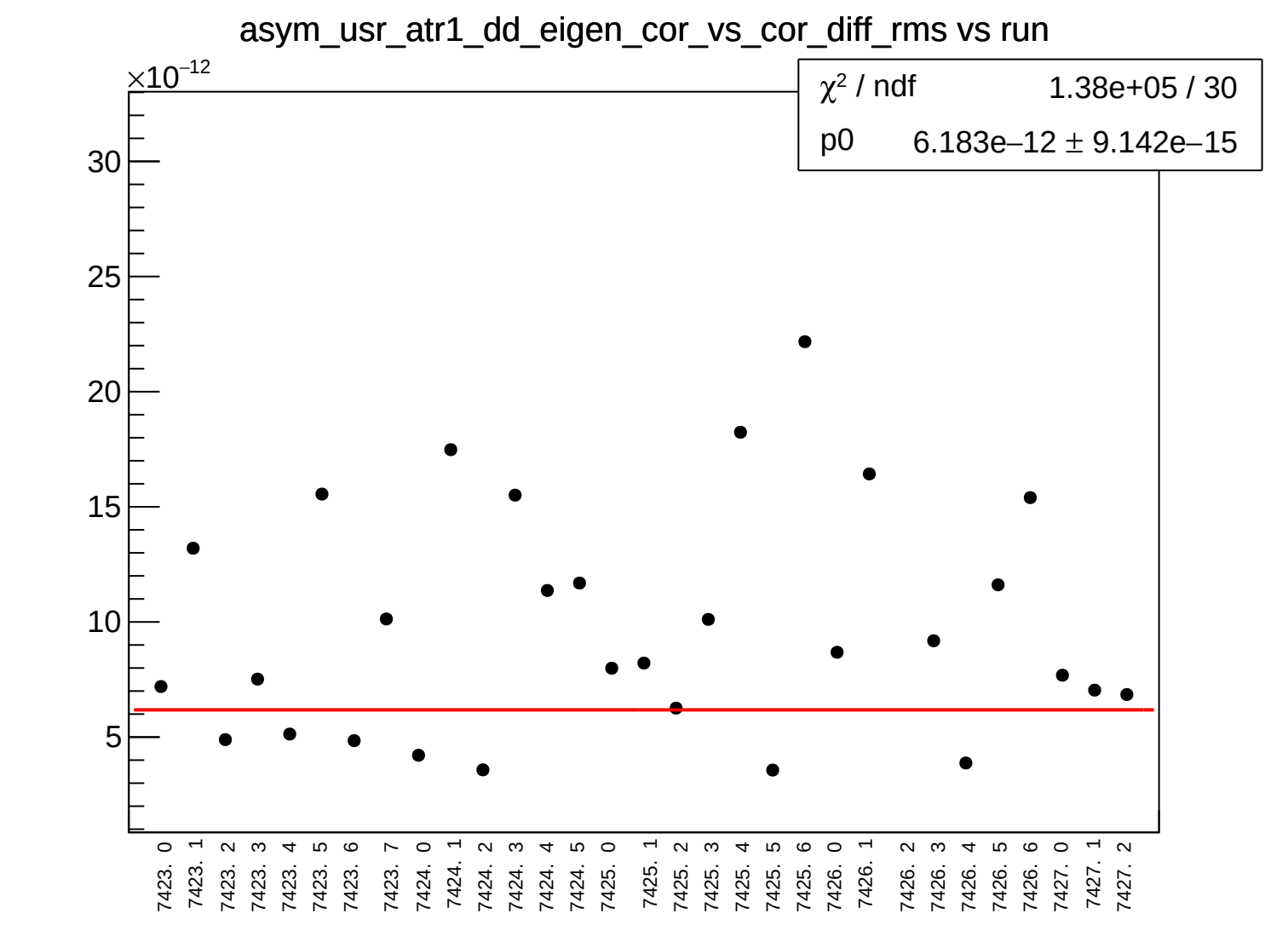

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.866e+04 / 30
p0 76.89 ± 0.1012
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

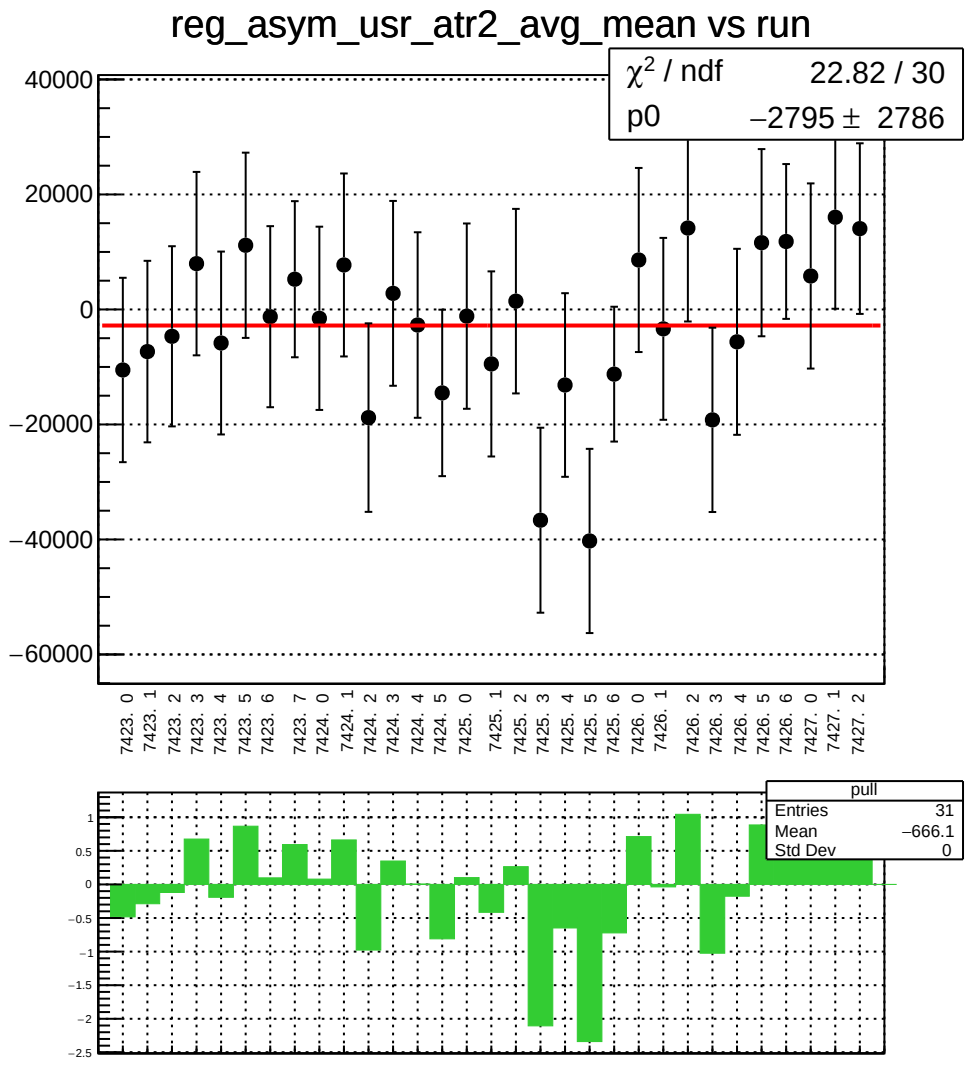

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.73 / 30
p0 −0.05956 ± 0.1432
pull
Entries 31
Mean −50.8
Std Dev 0
pull1D
Entries 31
Mean −0.0161
Std Dev 1.043


asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.866e+04 / 30
p0 76.89 ± 0.1012
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.8 / 30
p0 7.022e−15 ± 1.293e−14
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 26.35
Std Dev 3.148
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.1551
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.38e+05 / 30
p0 6.183e−12 ± 9.142e−15
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 22.82 / 30
p0 −2795 ± 2786
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −666.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.00184
Std Dev 0.8579
6
5
4
3
2
1
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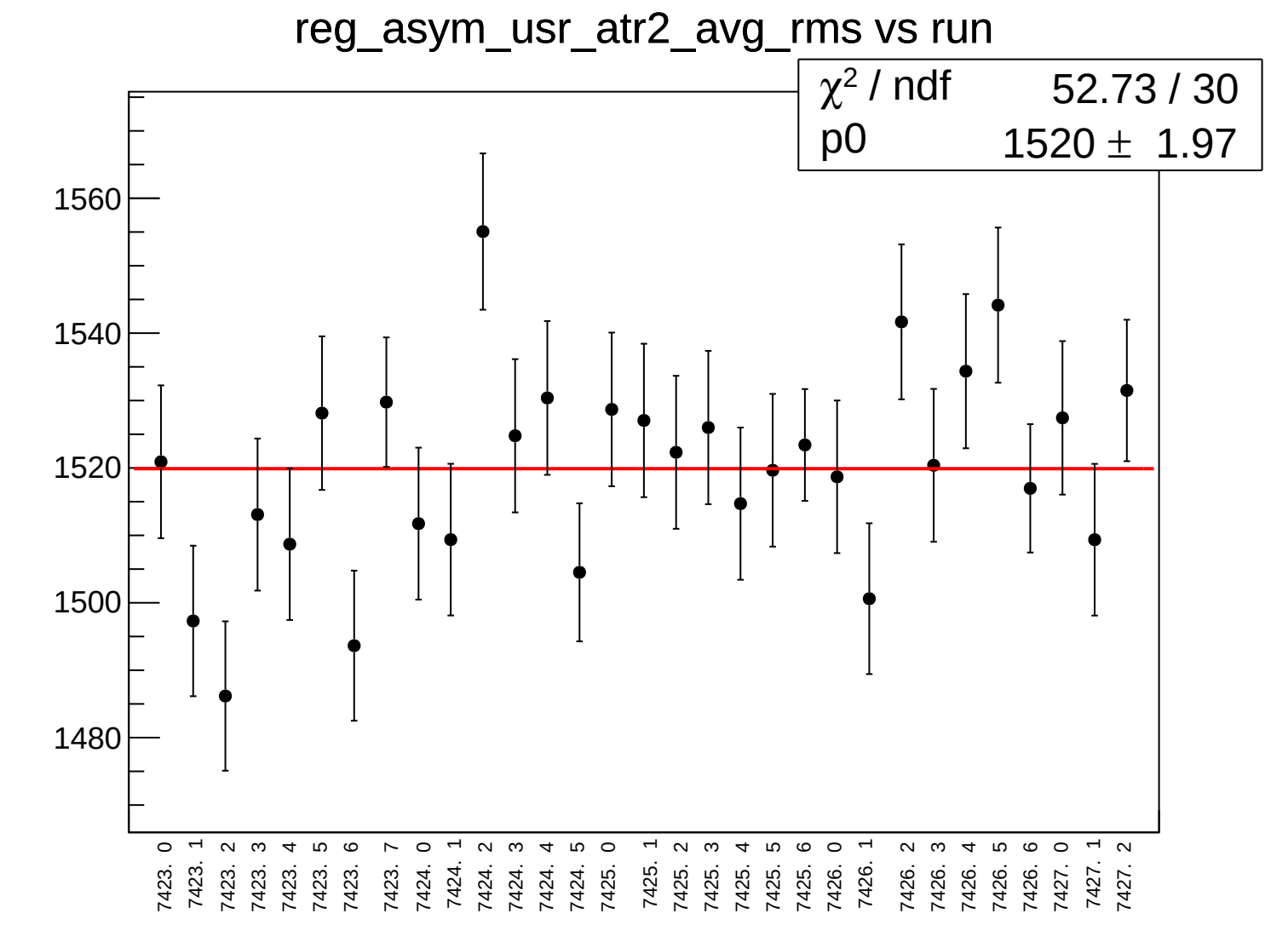
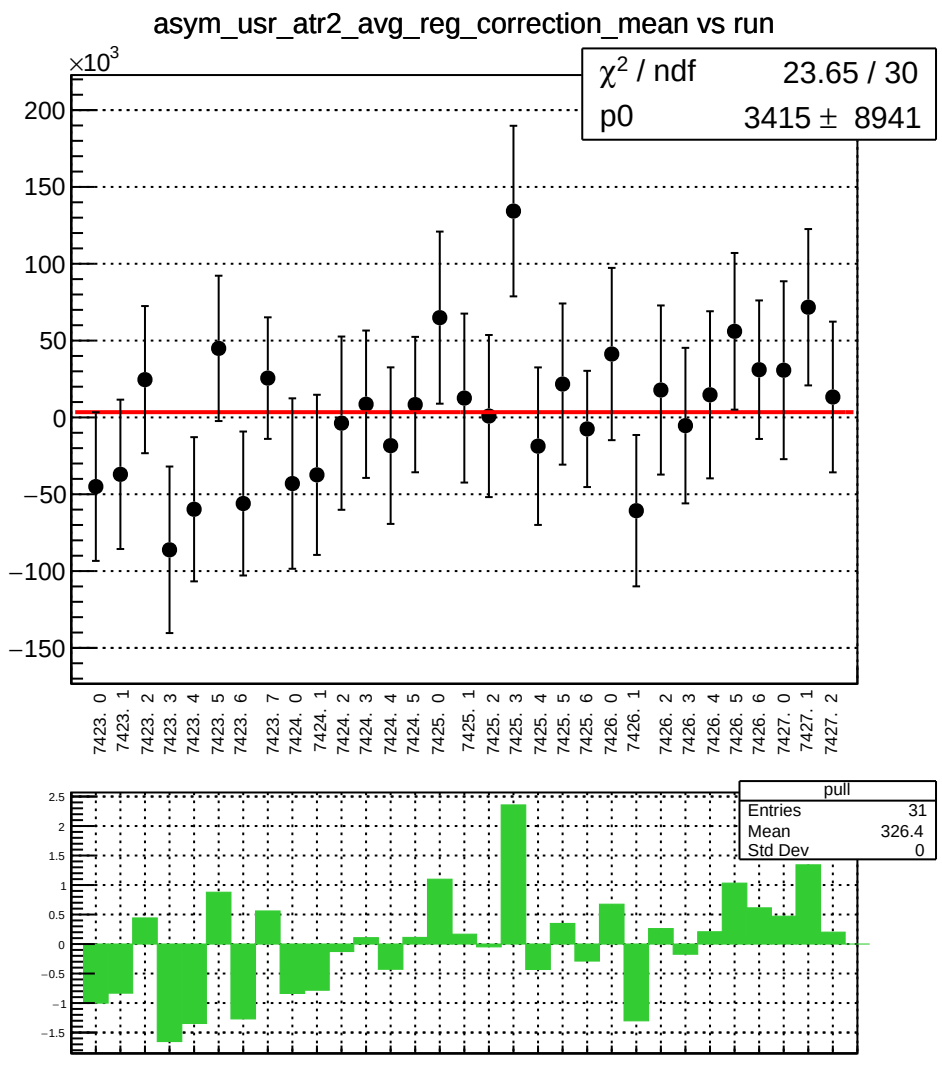
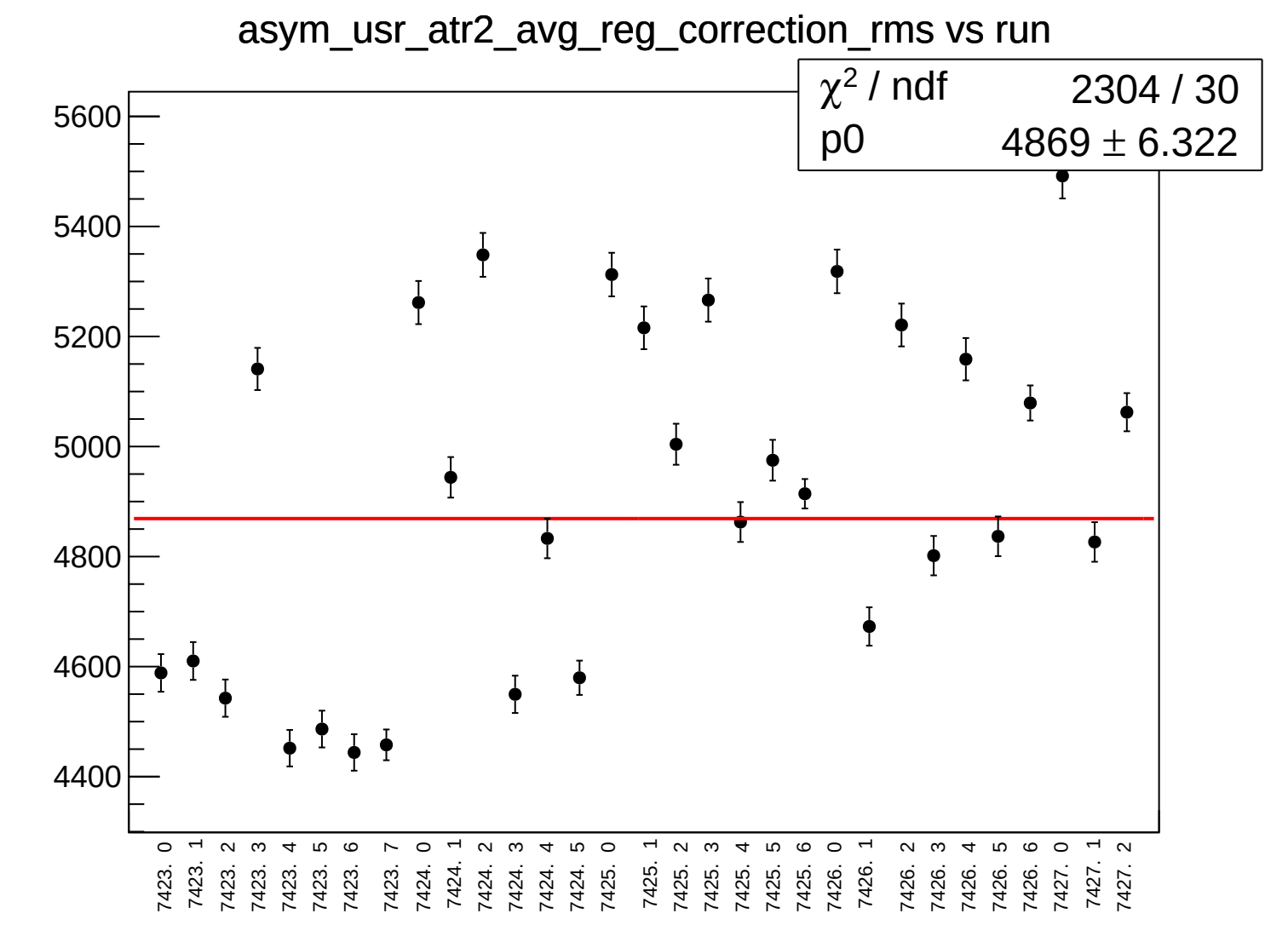
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 52.73 / 30
p0 1520 ± 1.97
1560
1540
1520
1500
1480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 23.65 / 30
p0 3415 ± 8941
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 326.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01162
Std Dev 0.8734
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 2304 / 30
p0 4869 ± 6.322
5600
5400
5200
5000
4800
4600
4400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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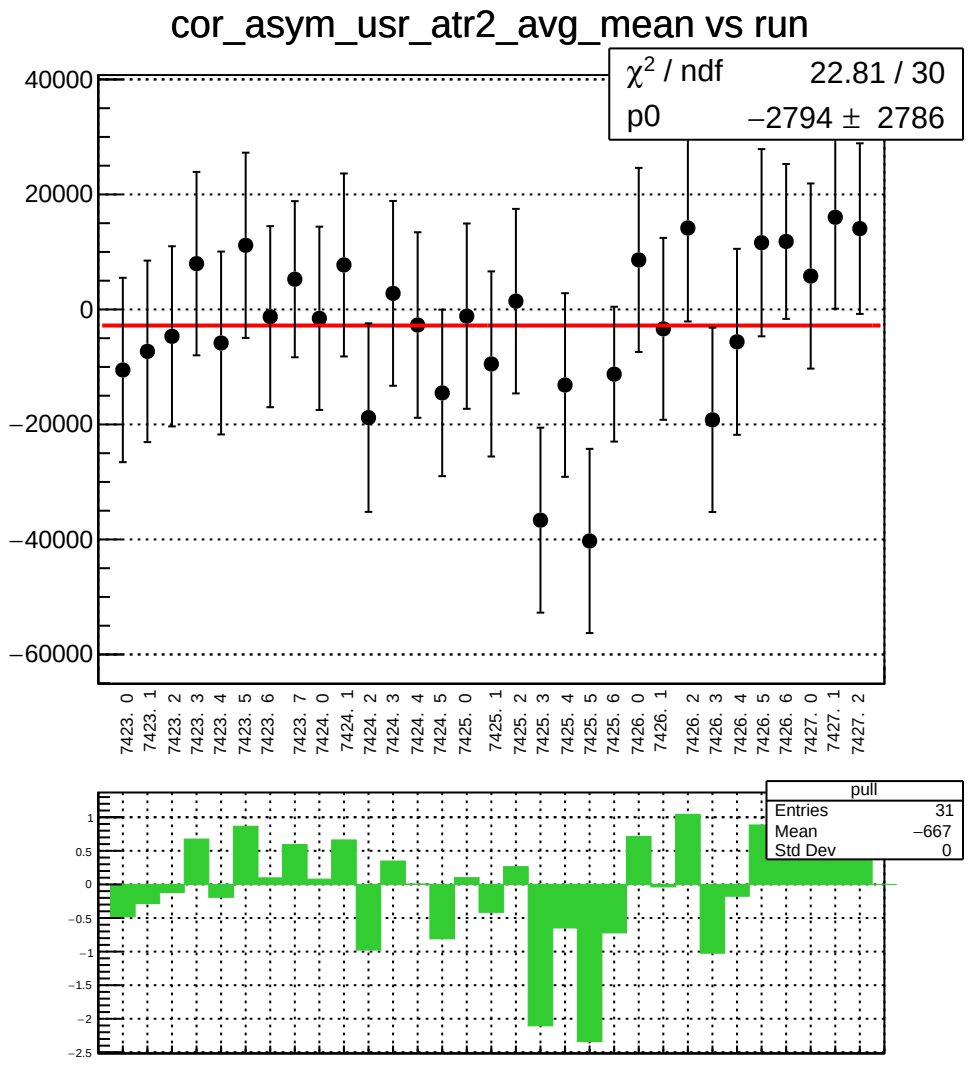
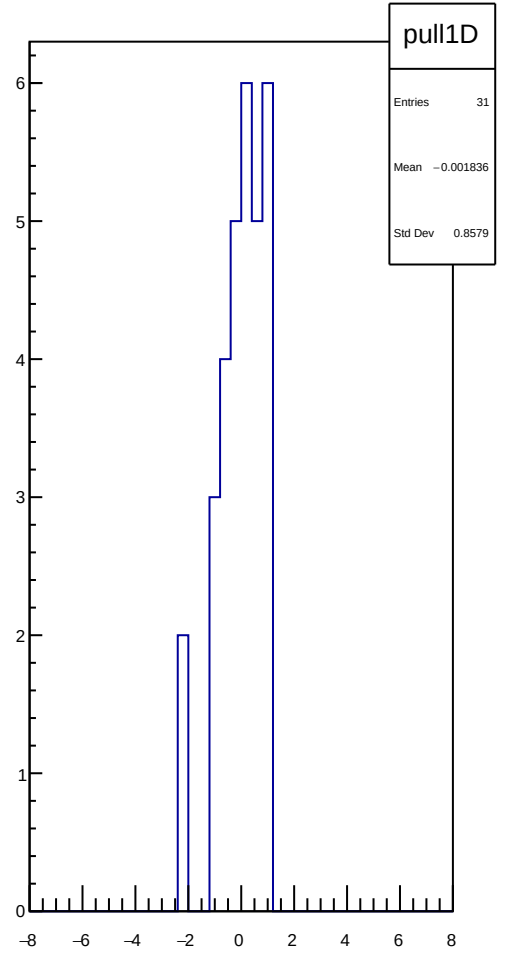
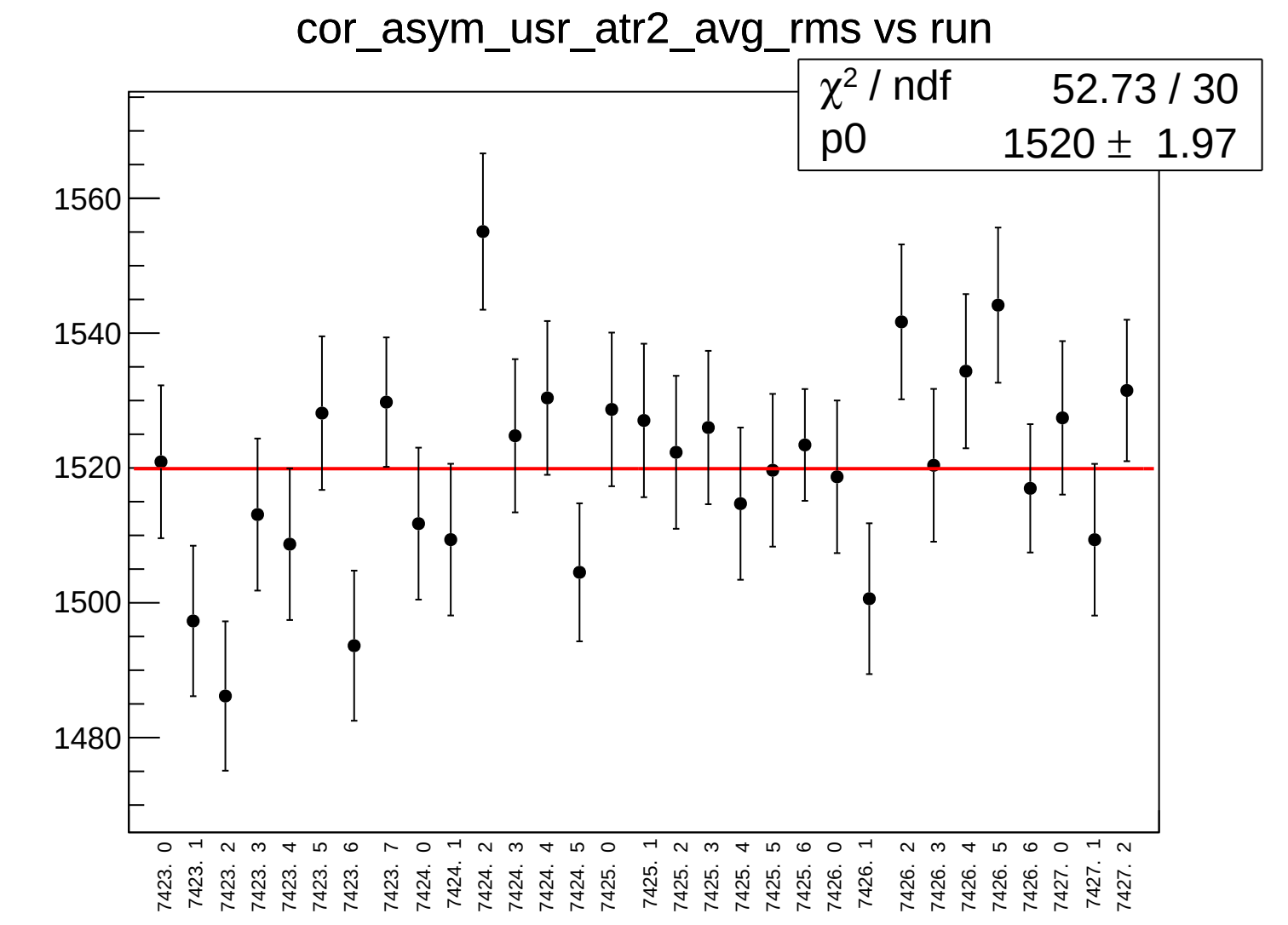
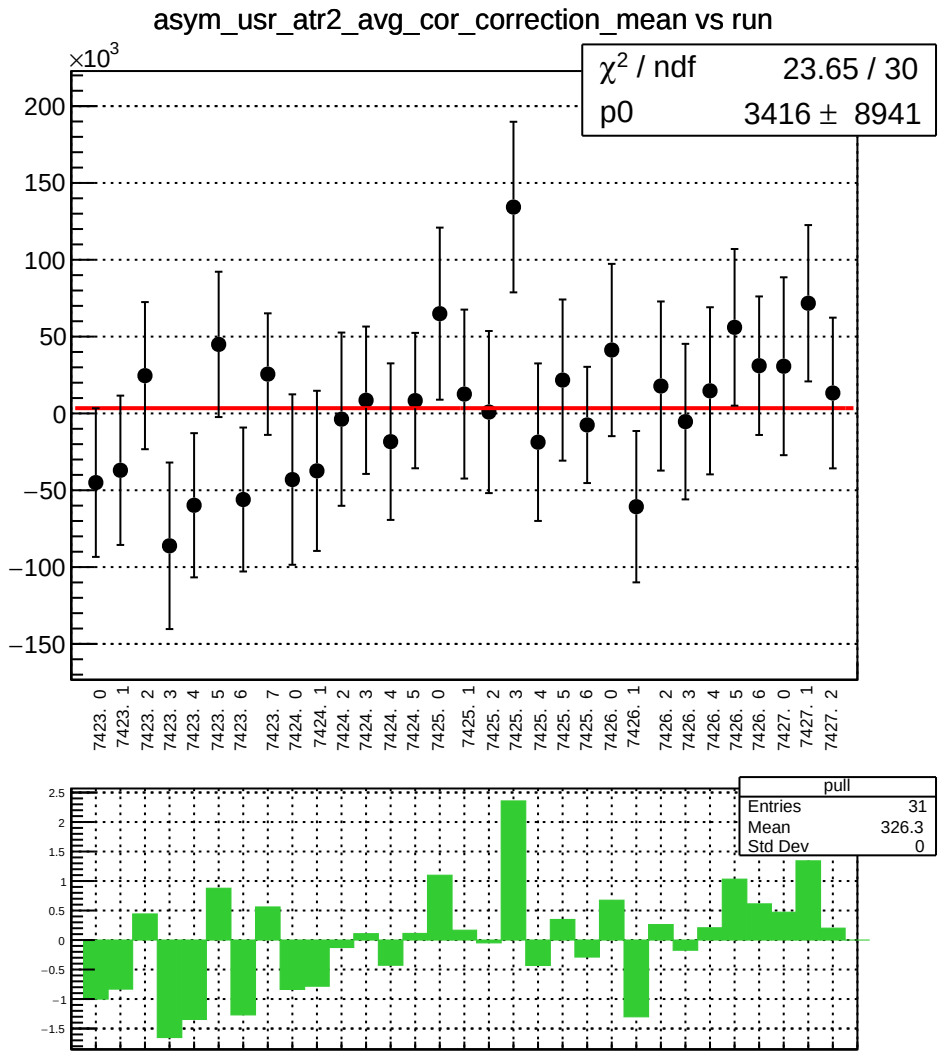
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 22.81 / 30
p0 −2794 ± 2786
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −667
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 31
Mean −0.001836
Std Dev 0.8579
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 52.73 / 30
p0 1520 ± 1.97
1560
1540
1520
1500
1480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 23.65 / 30
p0 3416 ± 8941
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 326.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01162
Std Dev 0.8734
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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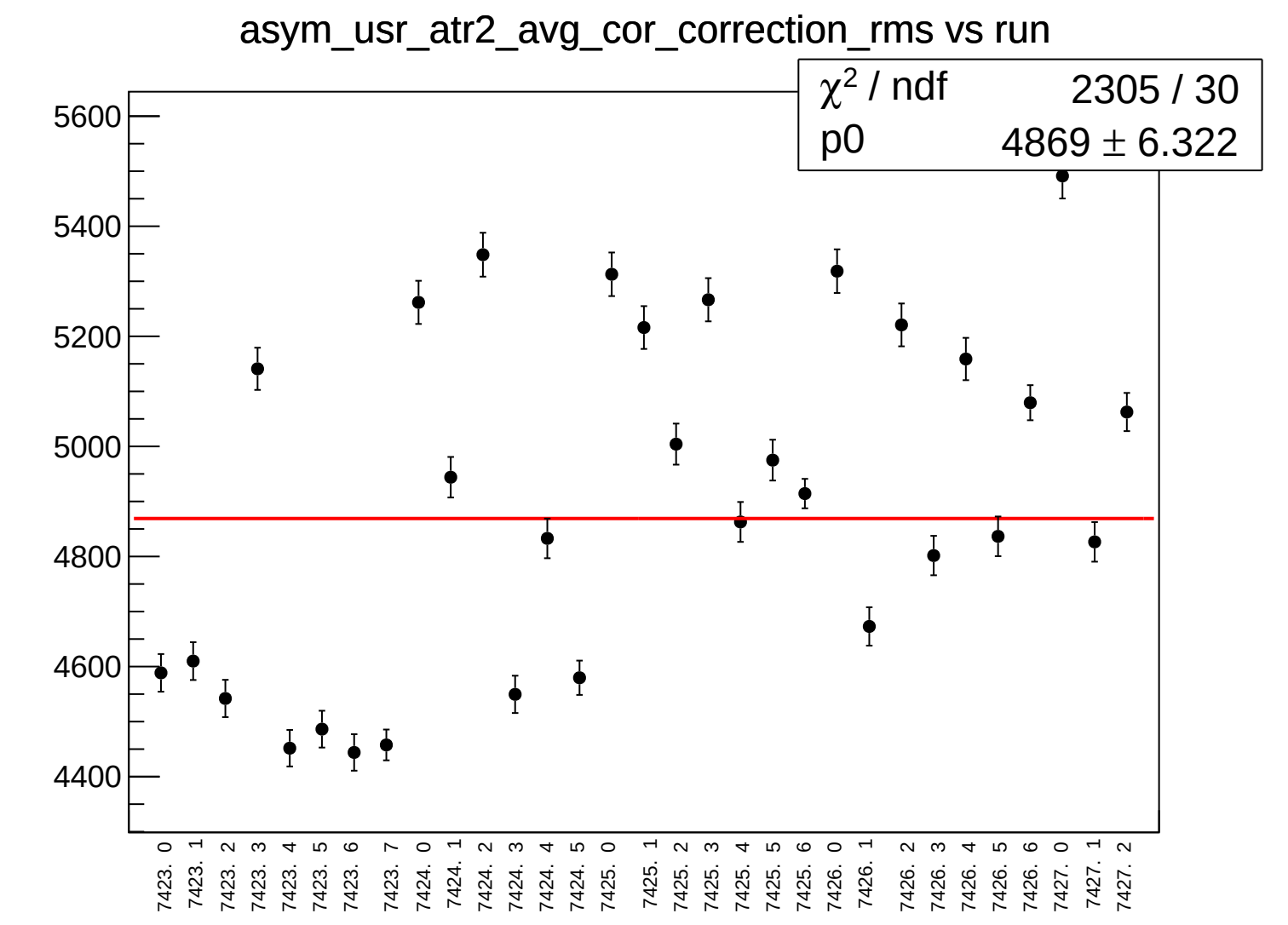
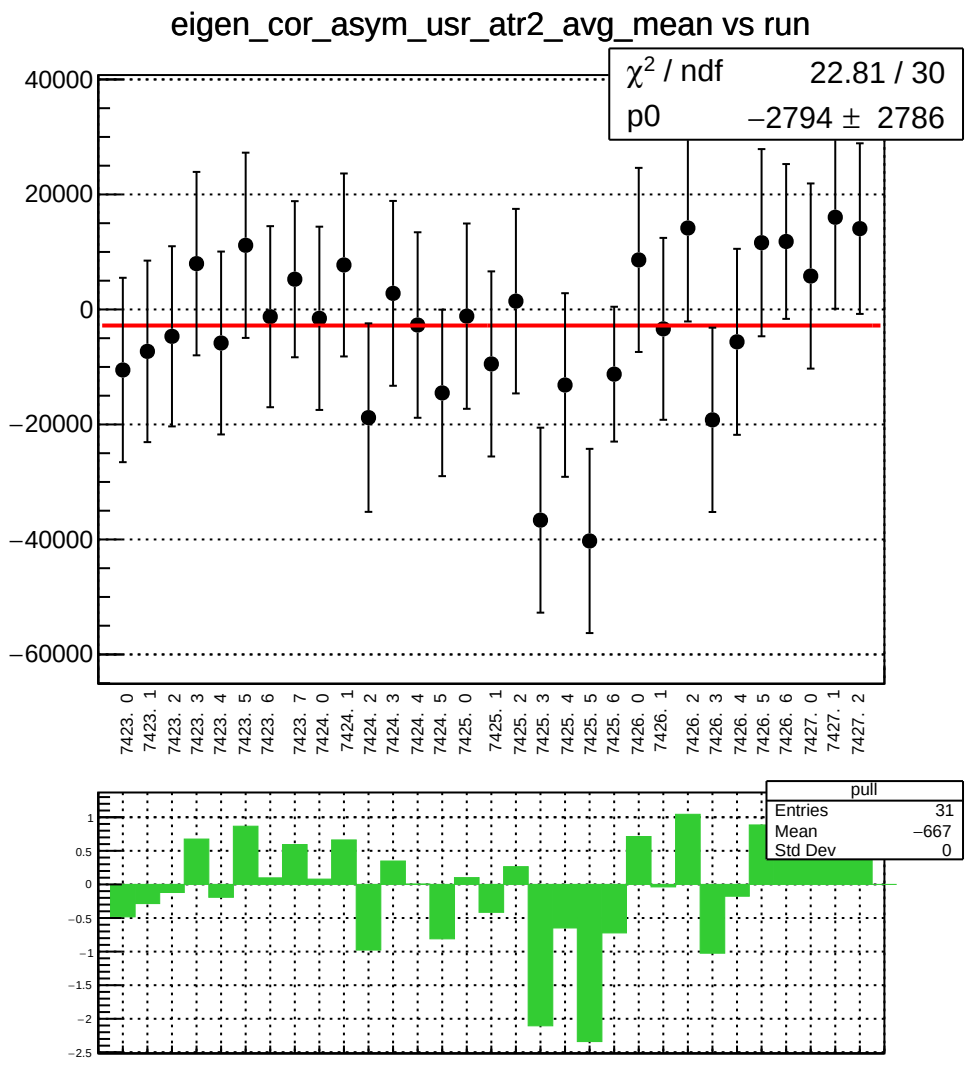
2
4
6
8


asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 2305 / 30
p0 4869 ± 6.322
5600
5400
5200
5000
4800
4600
4400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 22.81 / 30
p0 −2794 ± 2786
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −667
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.001836
Std Dev 0.8579
6
5
4
3
2
1
0
−8
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−4
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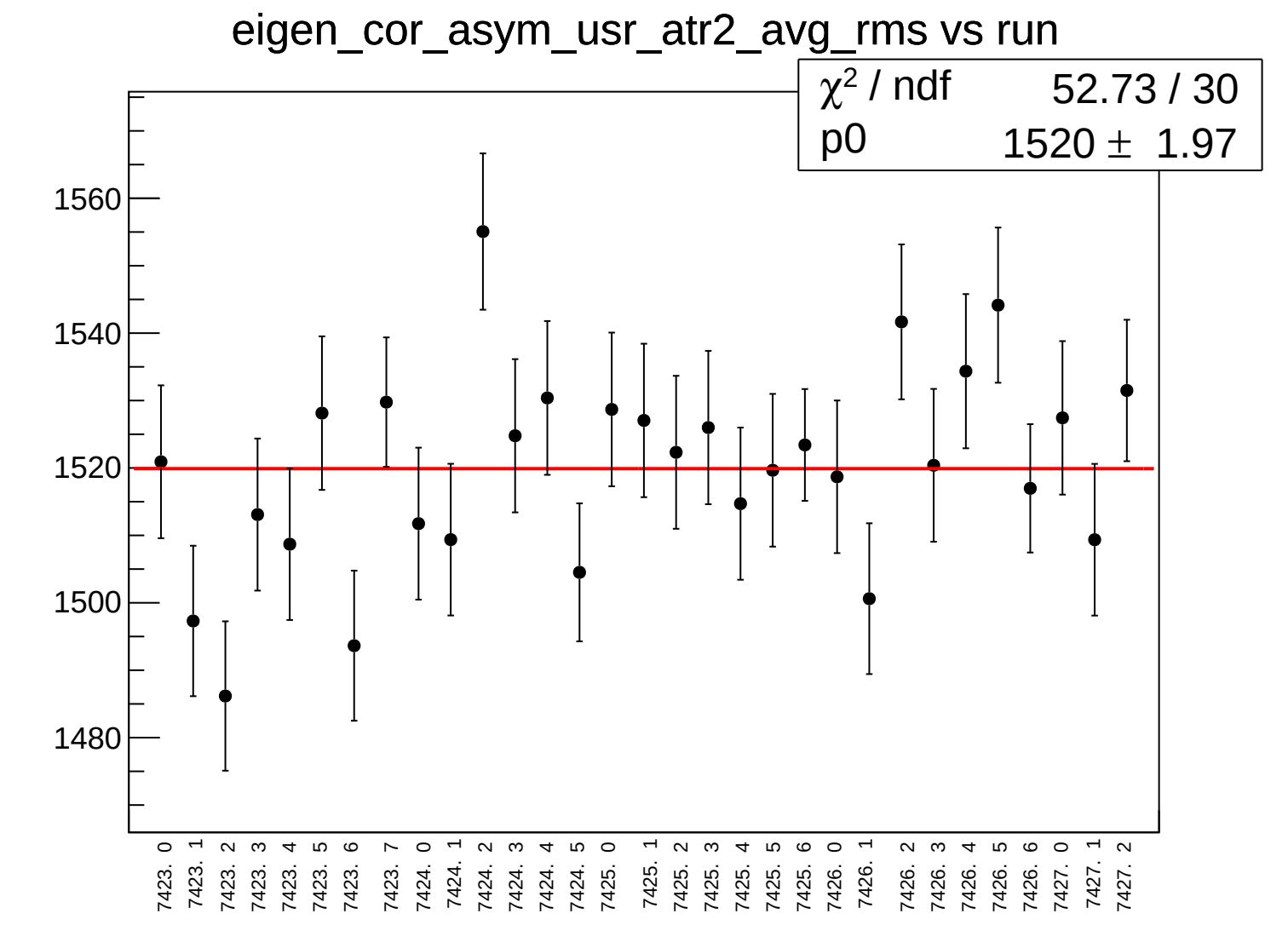
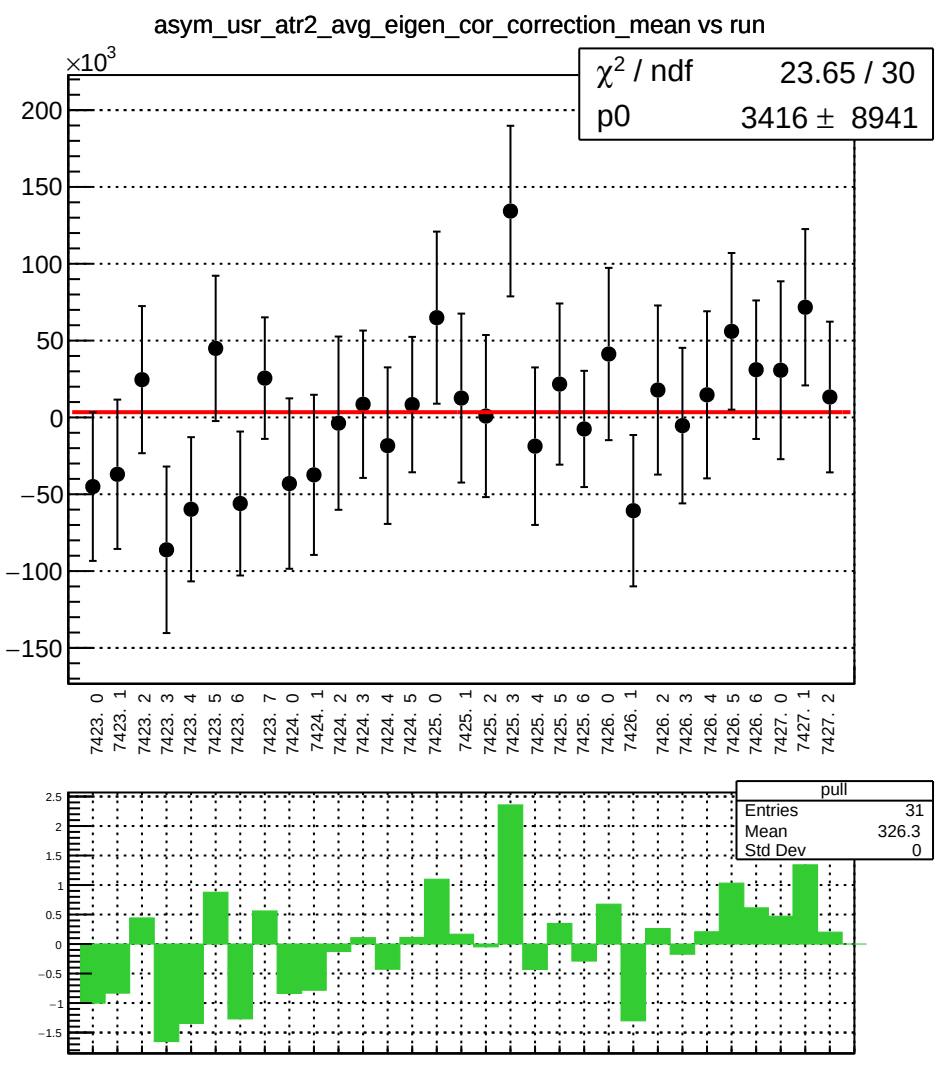
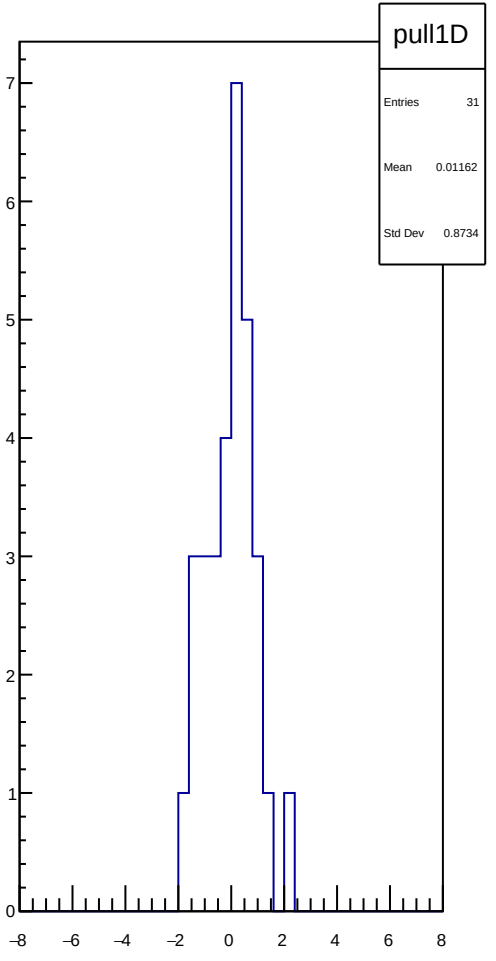
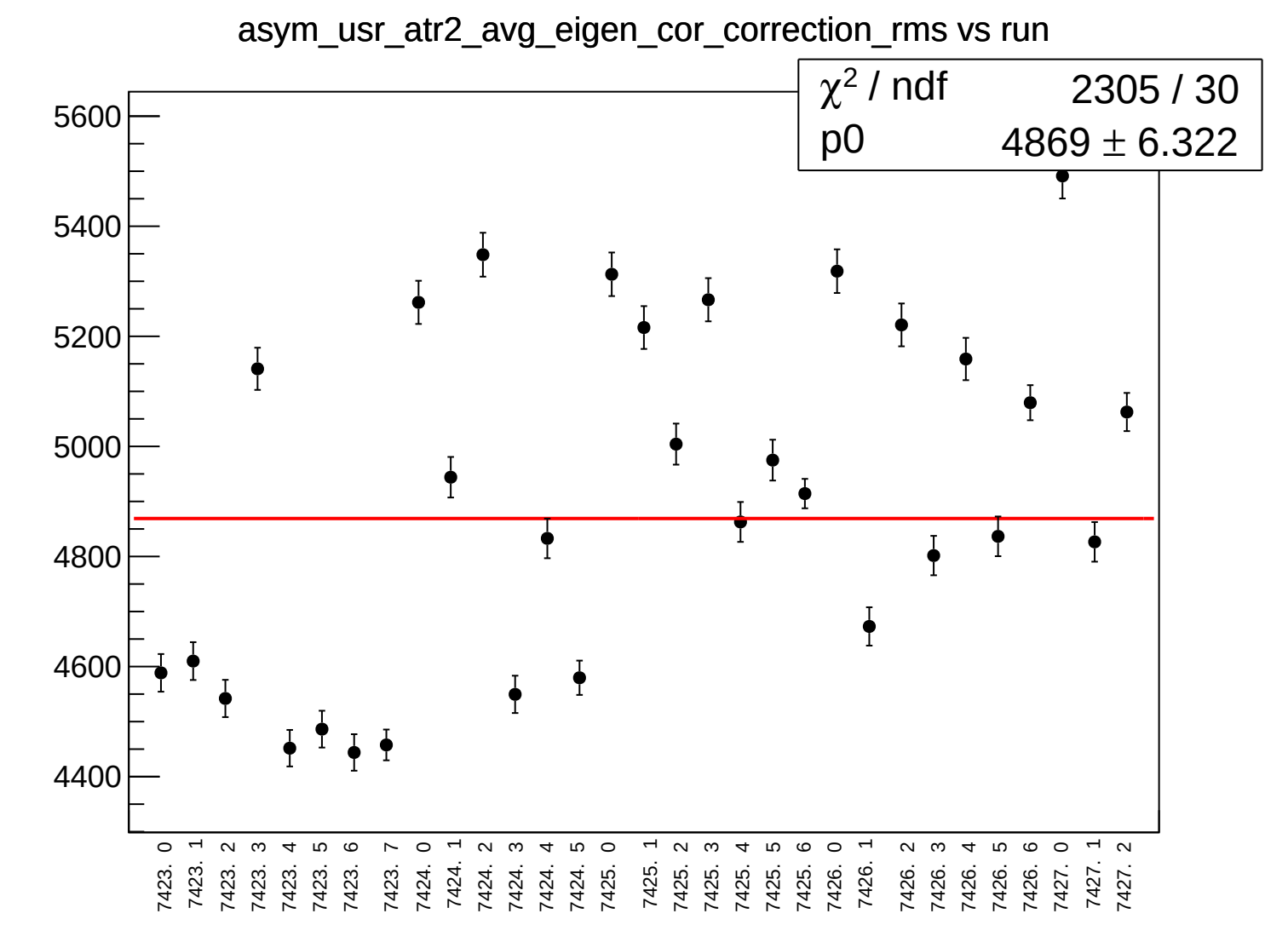
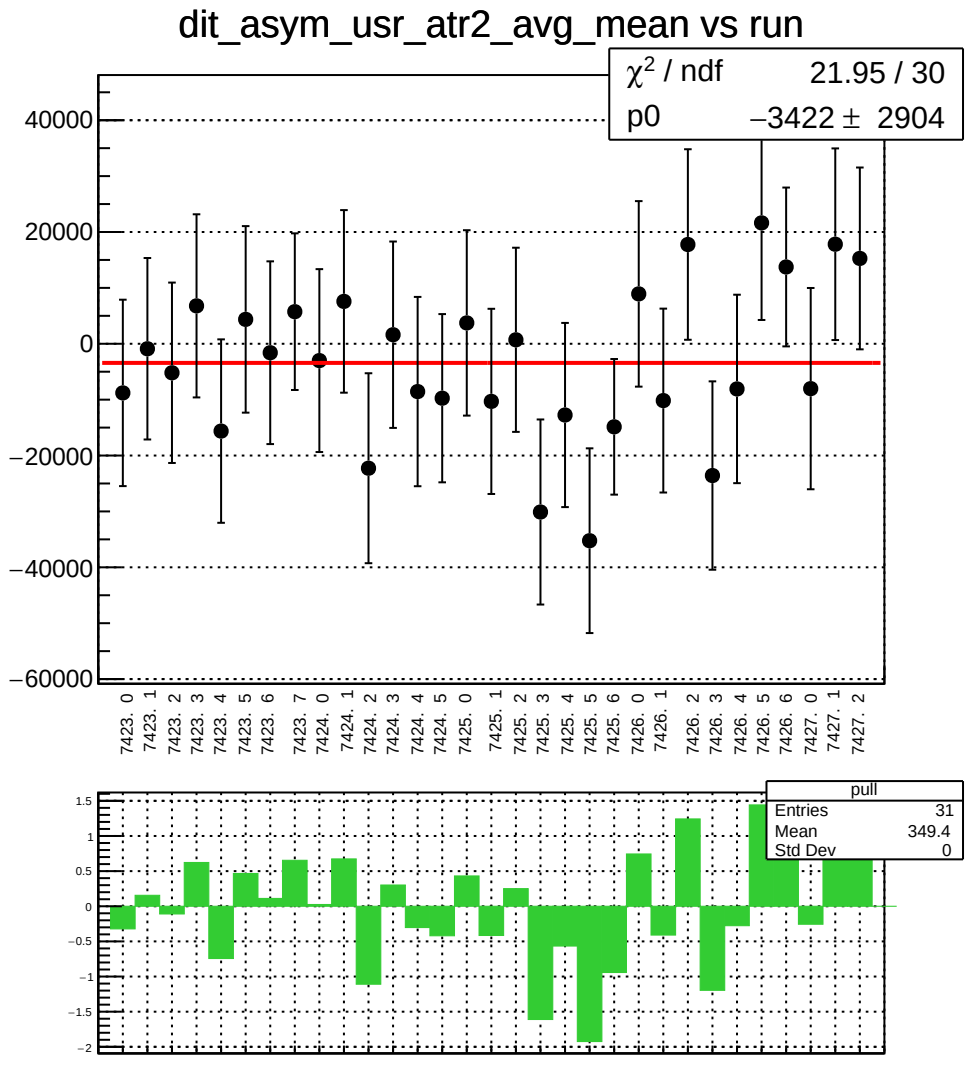
2
4
6
8

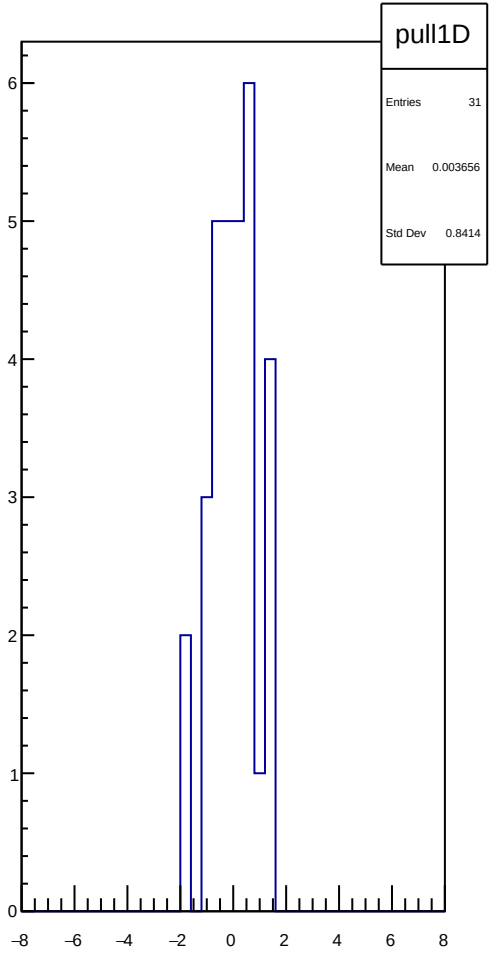

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 52.73 / 30
p0 1520 ± 1.97
1560
1540
1520
1500
1480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

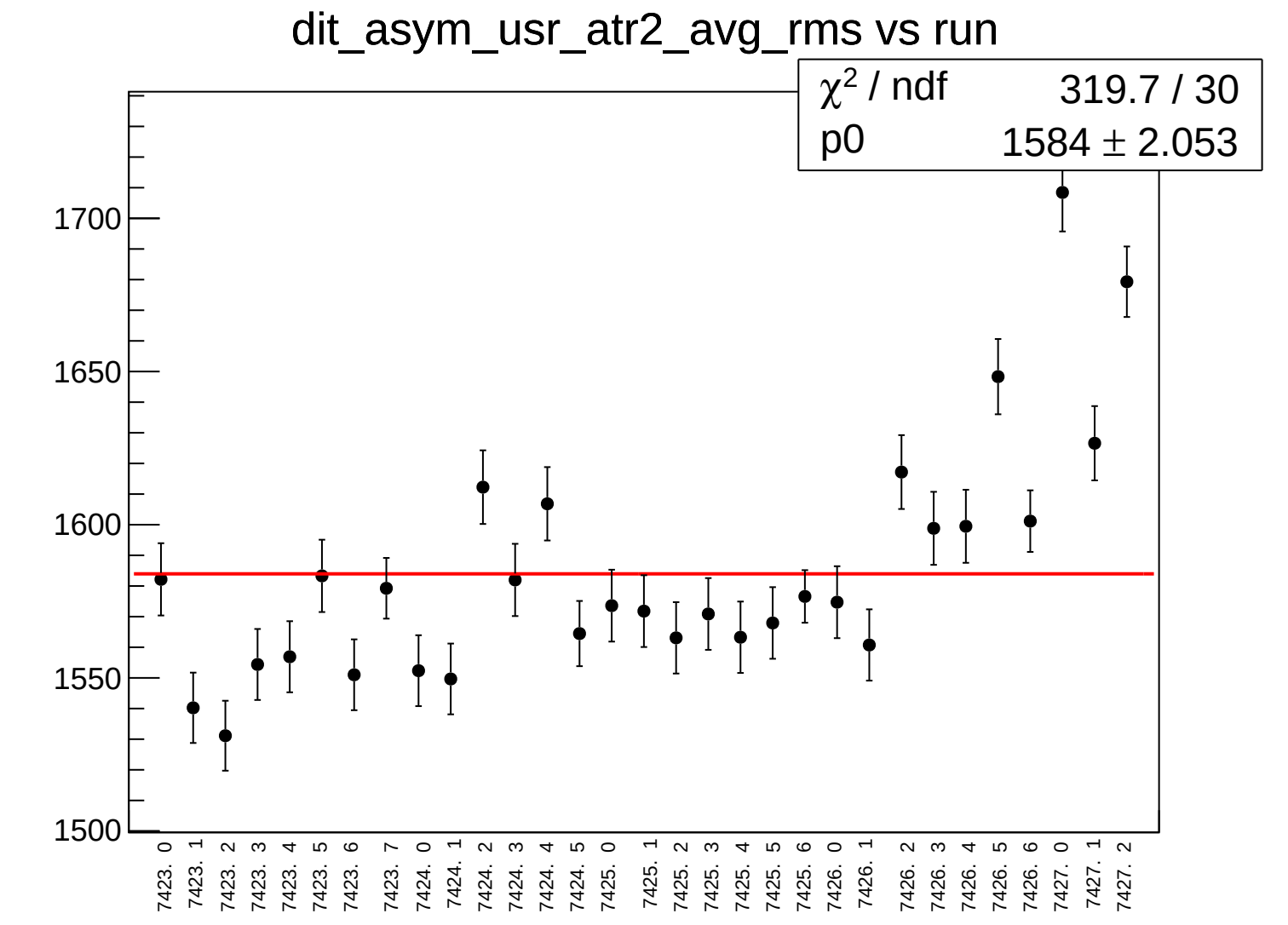

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 23.65 / 30
p0 3416 ± 8941
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 326.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

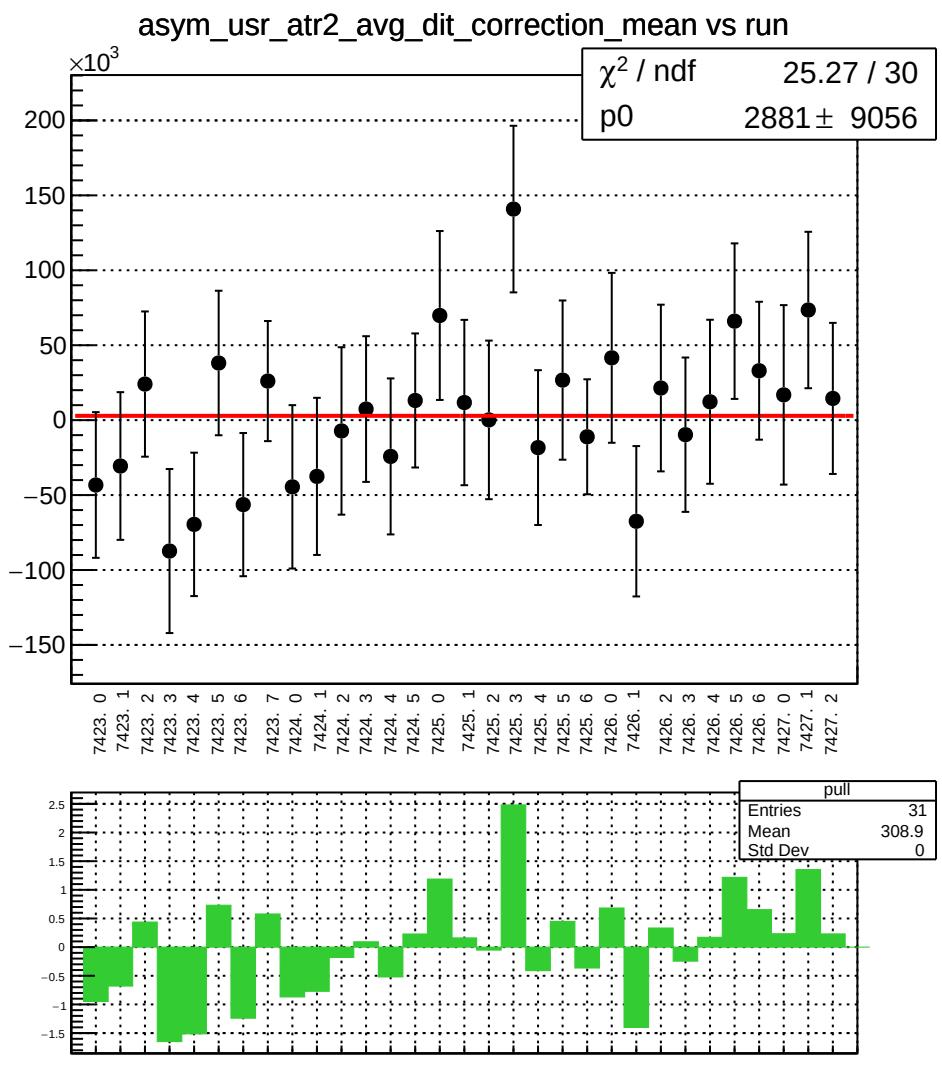

pull1D
Entries 31
Mean 0.01162
Std Dev 0.8734
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

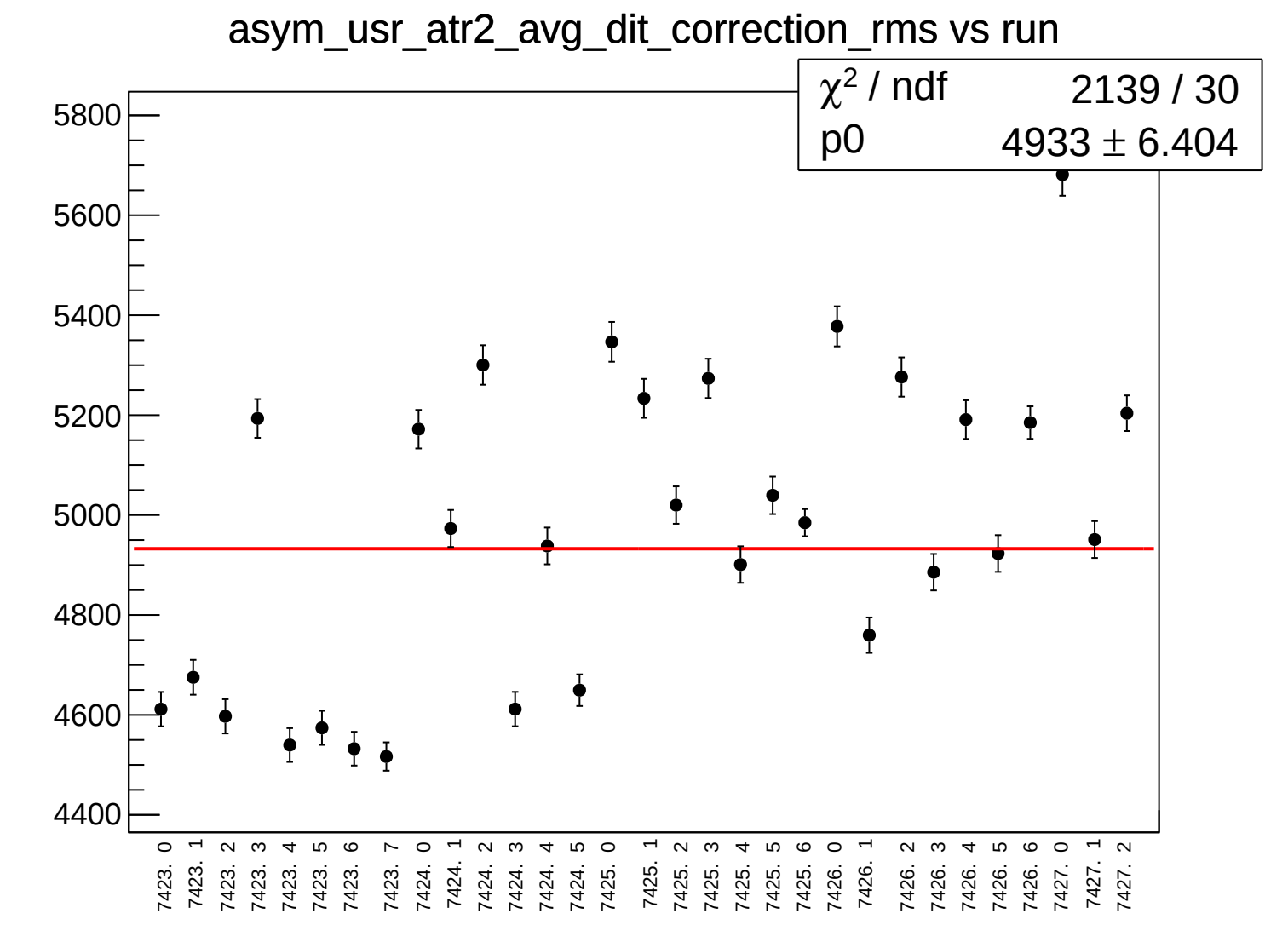

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2305 / 30
p0 4869 ± 6.322
5600
5400
5200
5000
4800
4600
4400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

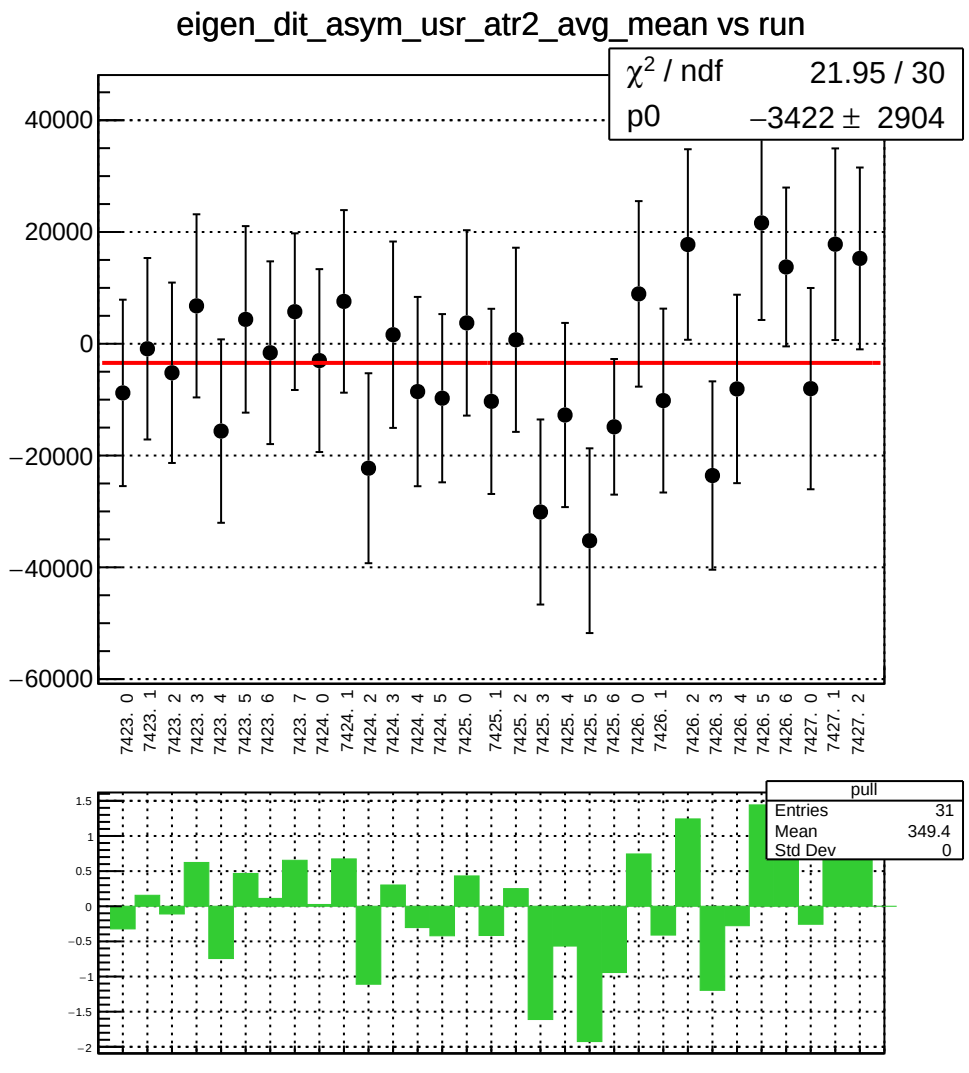

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 21.95 / 30
p0 −3422 ± 2904
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 349.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

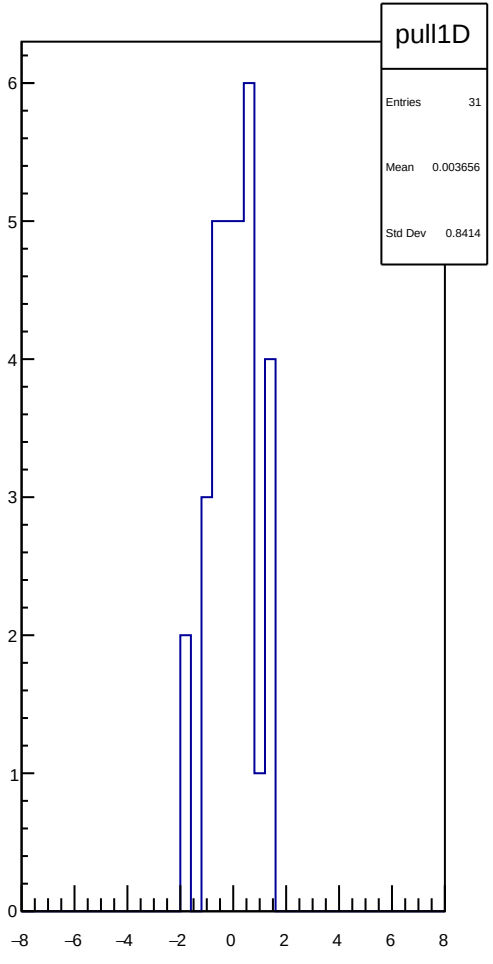

pull1D
Entries 31
Mean 0.003656
Std Dev 0.8414
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

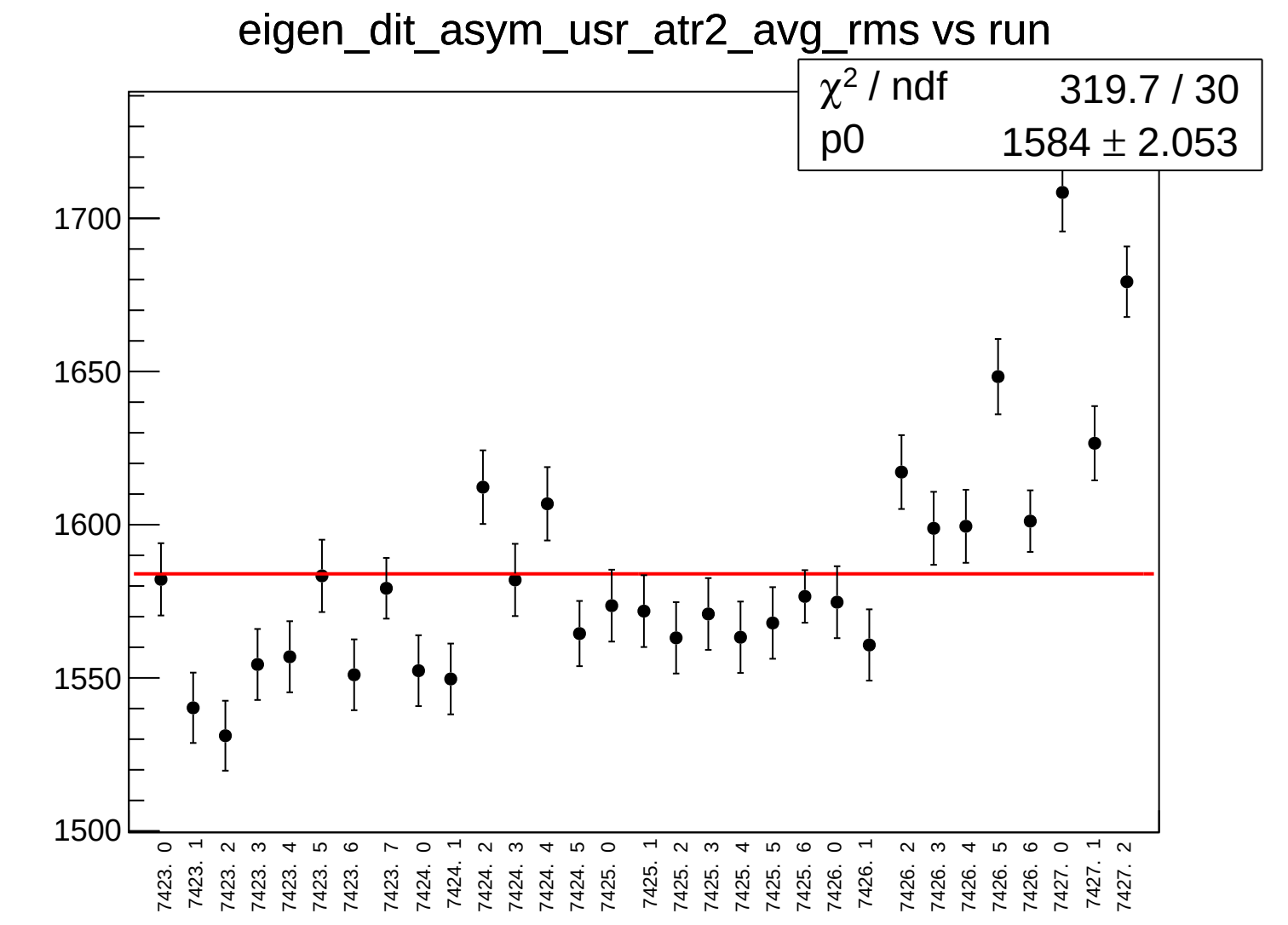

dit_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 319.7 / 30
p0 1584 ± 2.053
1700
1650
1600
1550
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

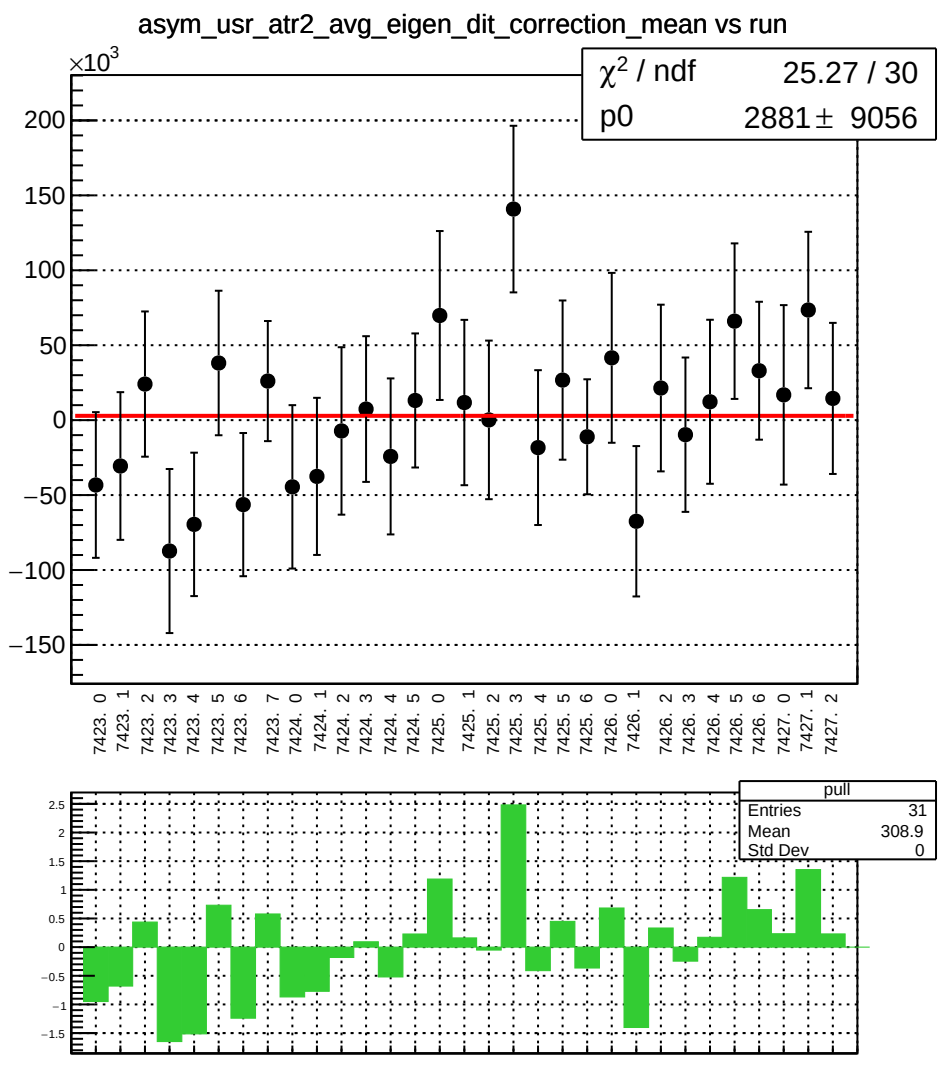

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 25.27 / 30
p0 2881 ± 9056
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 308.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01228
Std Dev 0.9027
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

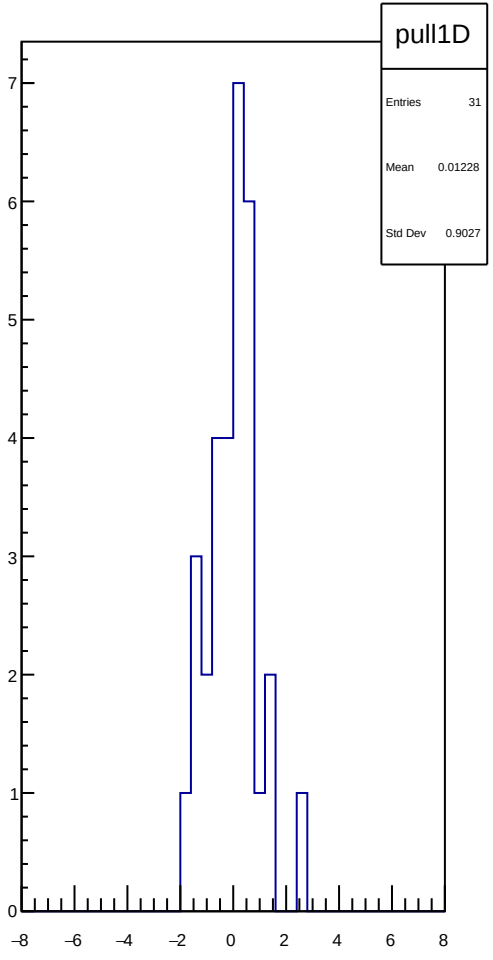

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 2139 / 30
p0 4933 ± 6.404
5800
5600
5400
5200
5000
4800
4600
4400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

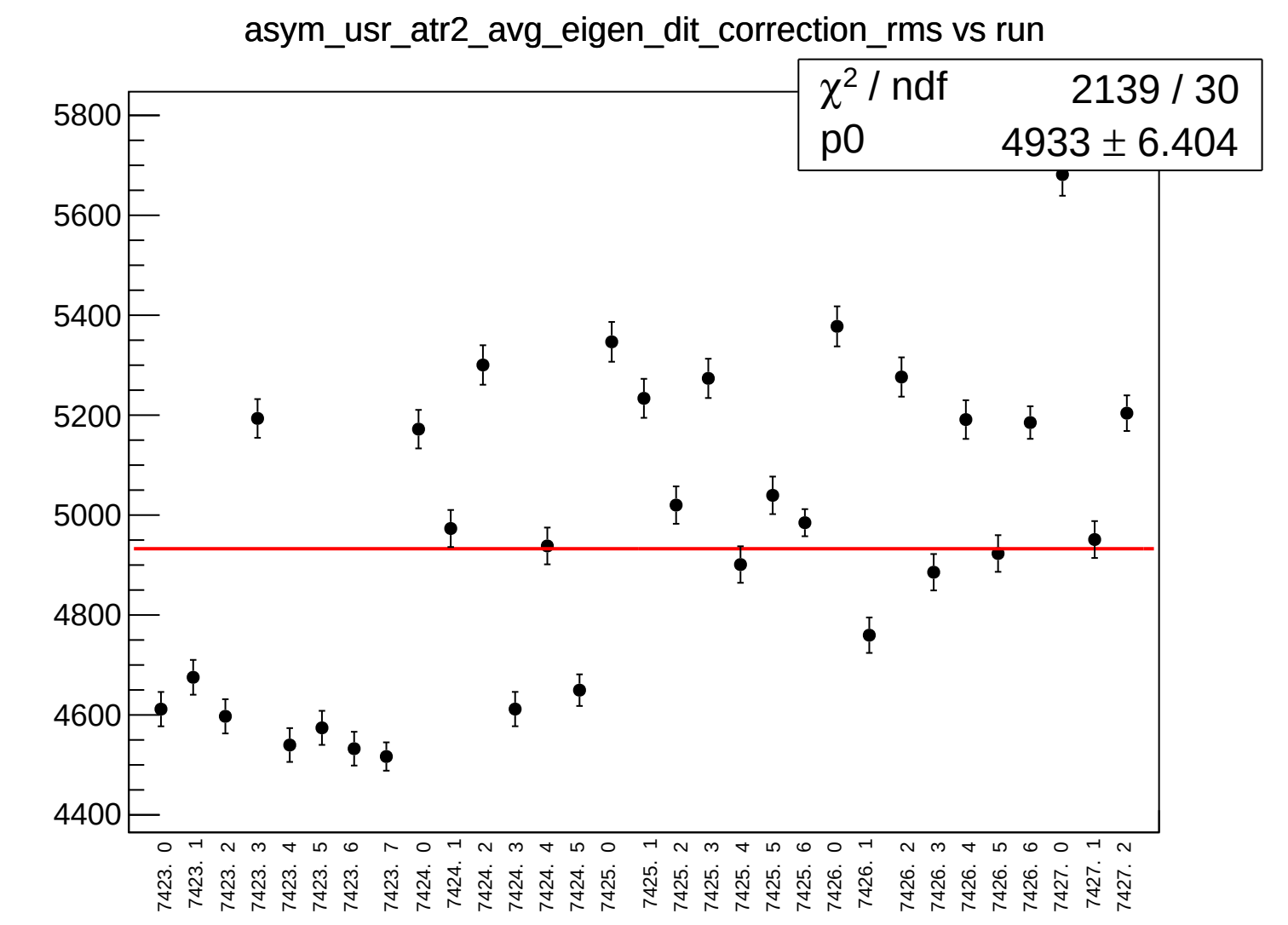

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 21.95 / 30
p0 −3422 ± 2904
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 349.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

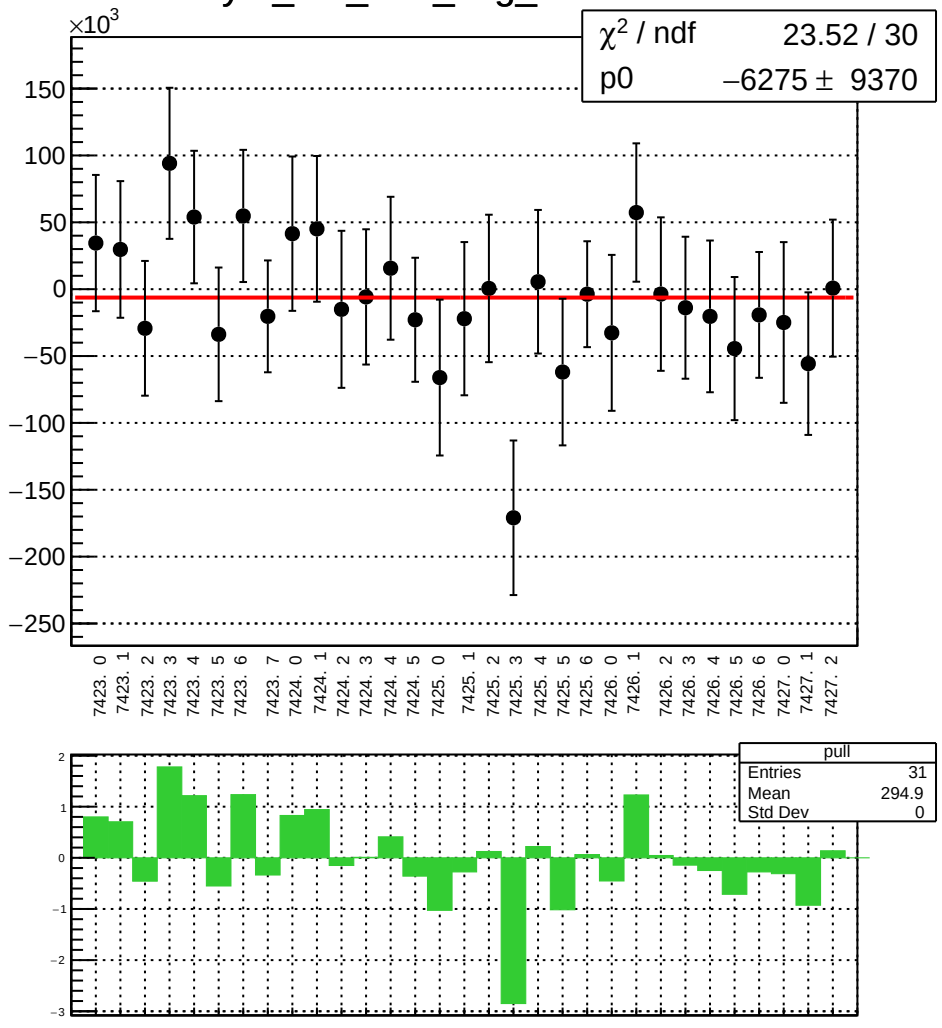

pull1D
Entries 31
Mean 0.003656
Std Dev 0.8414
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

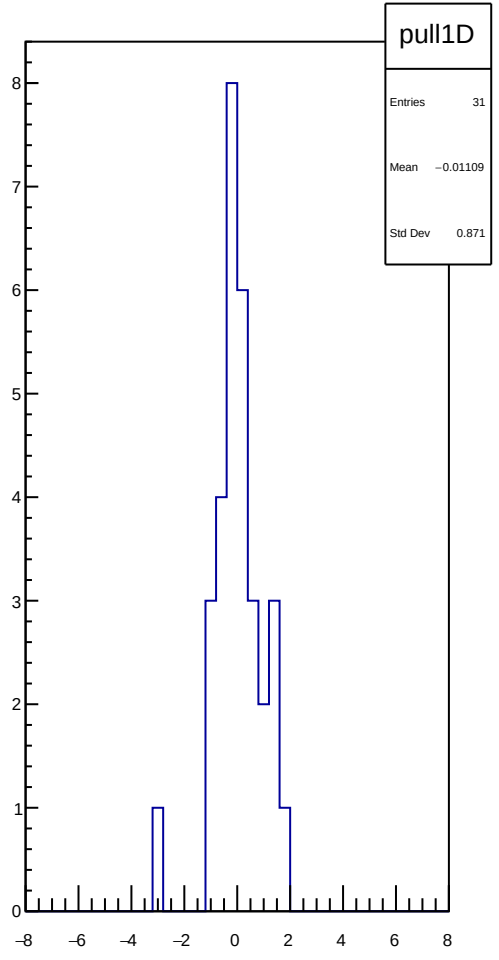

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 319.7 / 30
p0 1584 ± 2.053
1700
1650
1600
1550
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

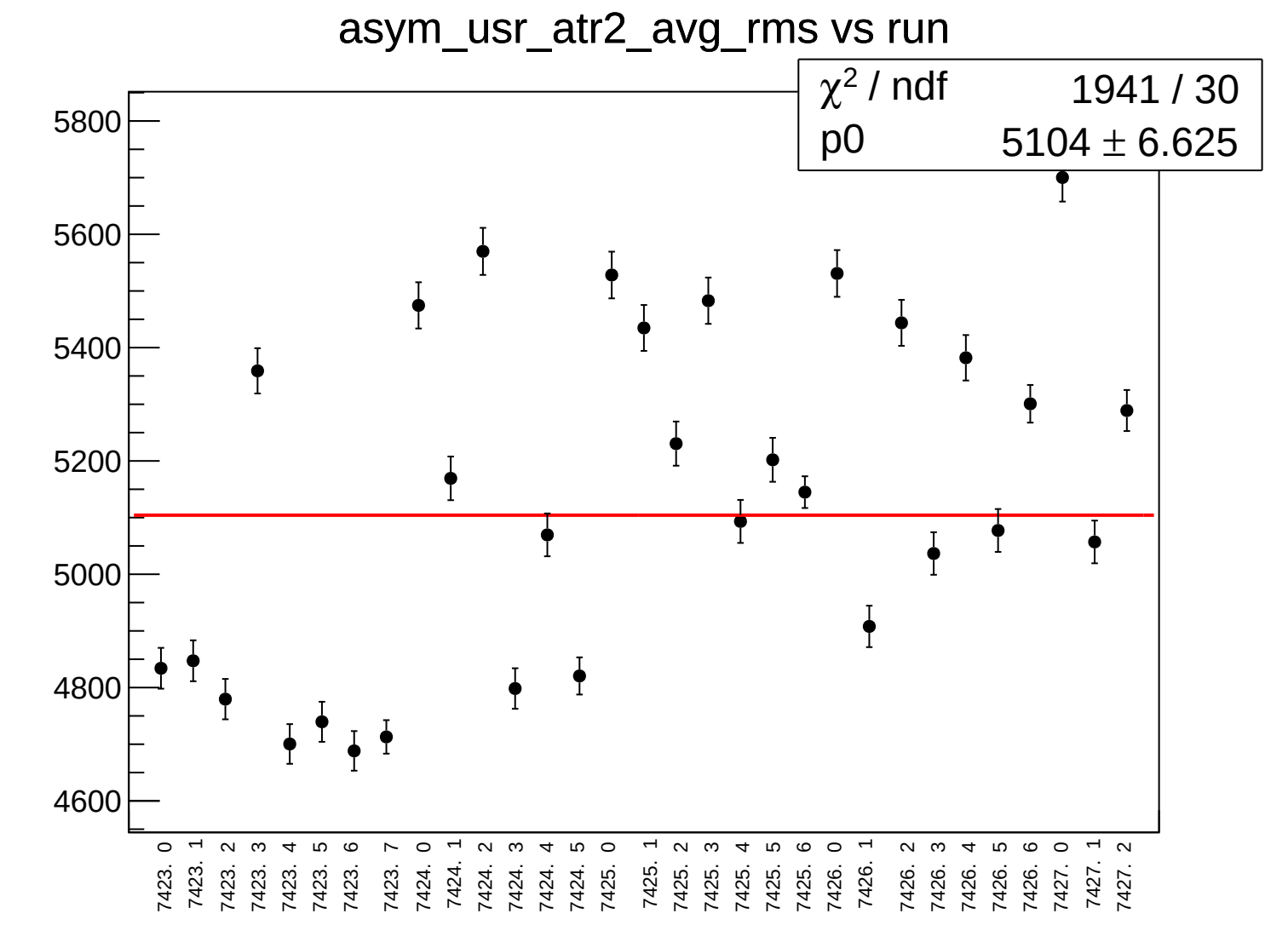

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 25.27 / 30
p0 2881 ± 9056
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 308.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

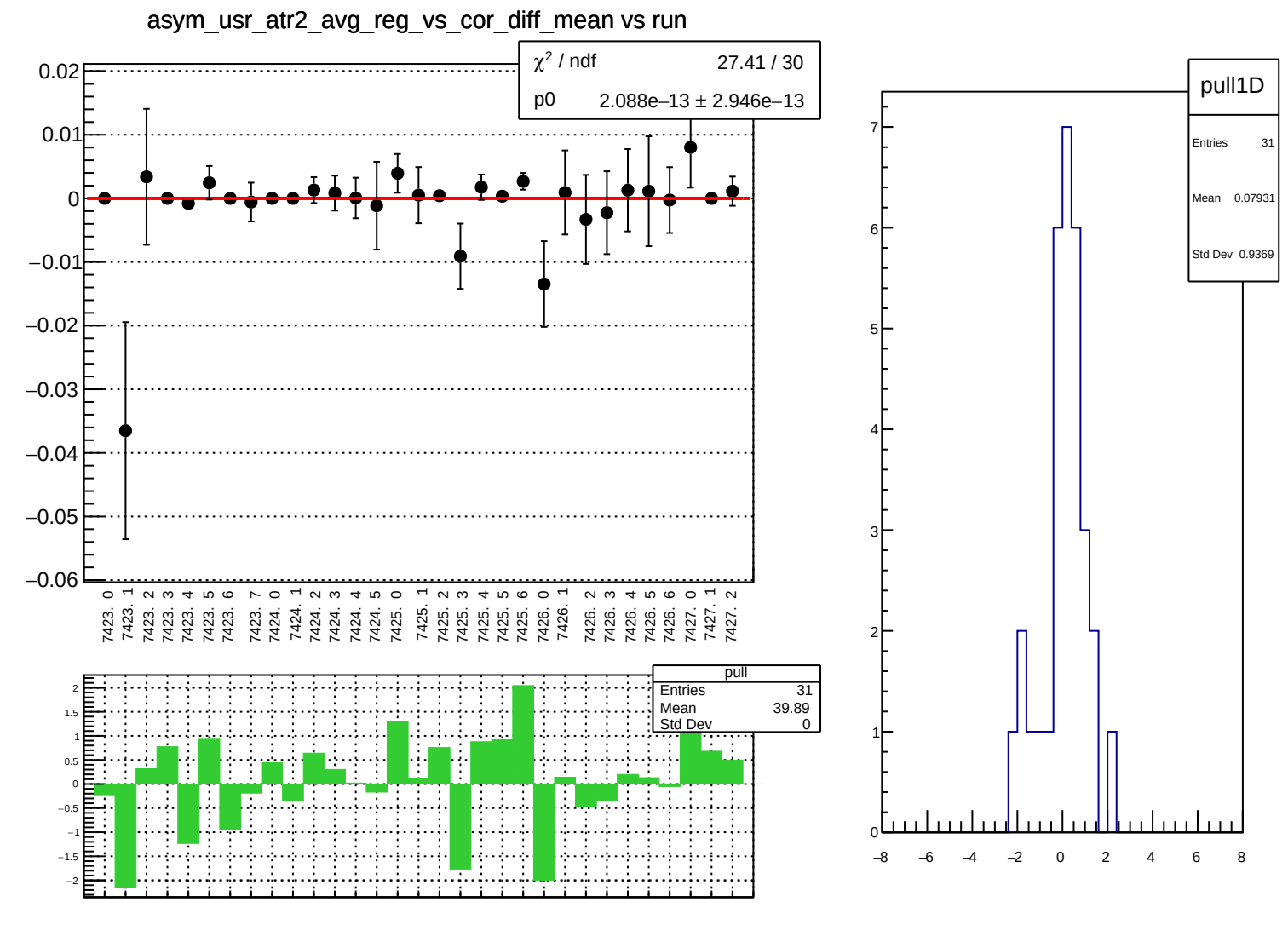

pull1D
Entries 31
Mean 0.01228
Std Dev 0.9027
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

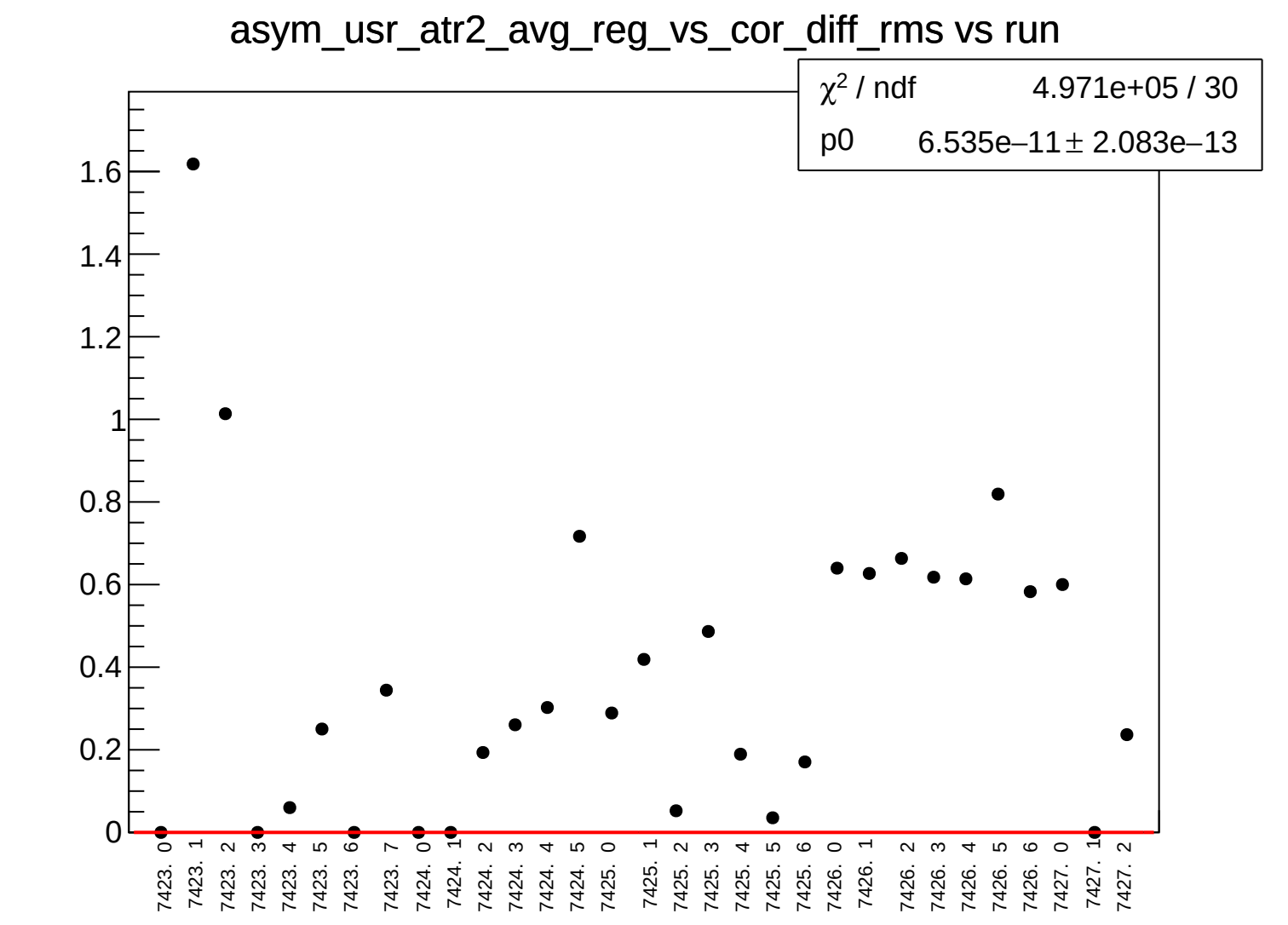

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2139 / 30
p0 4933 ± 6.404
5800
5600
5400
5200
5000
4800
4600
4400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

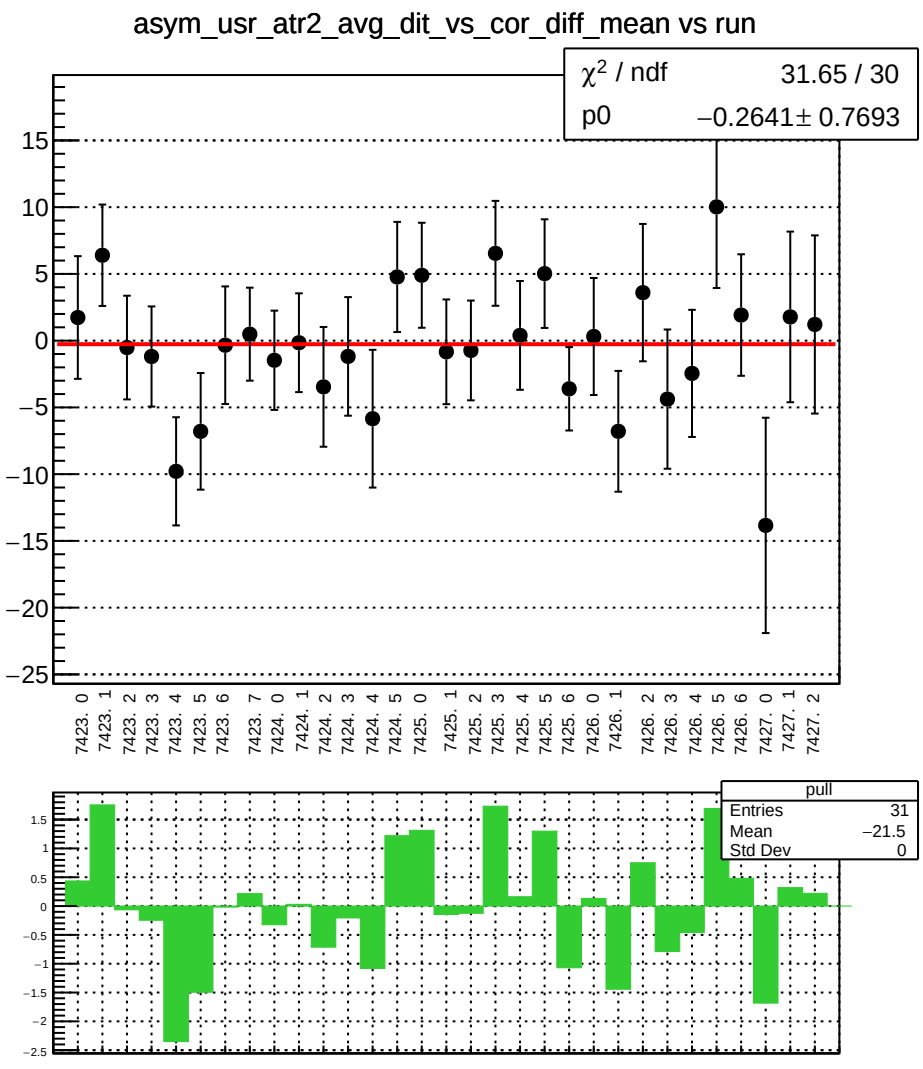

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 23.52 / 30
p0 −6275 ± 9370
150
100
50
0
−50
−100
−150
−200
−250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 294.9
Std Dev 0
2
1
0
−1
−2
−3

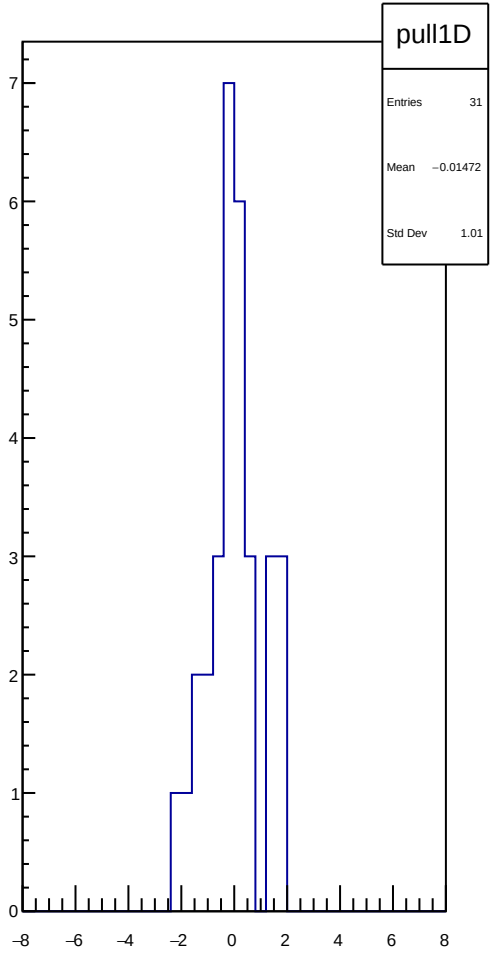

pull1D
Entries 31
Mean −0.01109
Std Dev 0.871
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

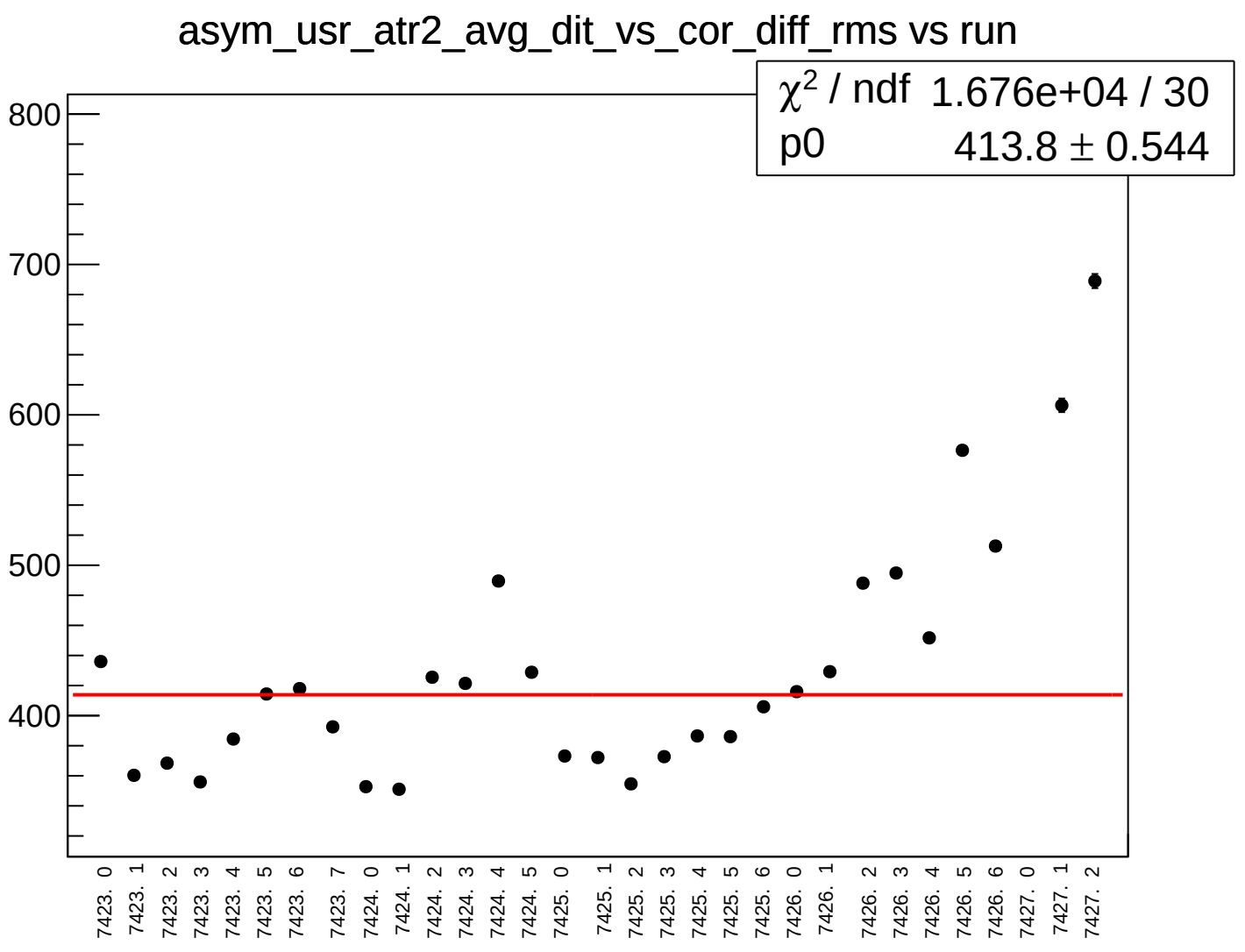

asym_usr_atr2_avg_rms vs run
χ² / ndf 1941 / 30
p0 5104 ± 6.625
5800
5600
5400
5200
5000
4800
4600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

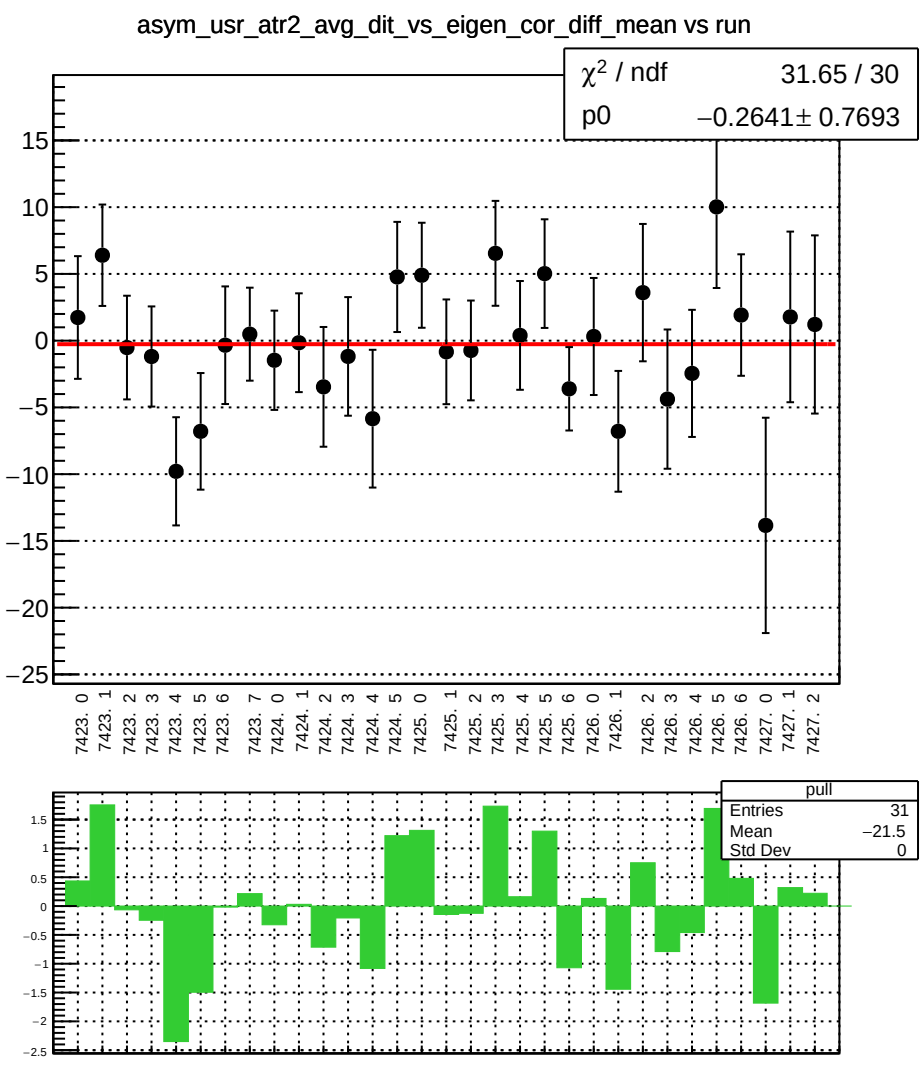

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.41 / 30
p0 2.088e−13 ± 2.946e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 39.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.07931
Std Dev 0.9369
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

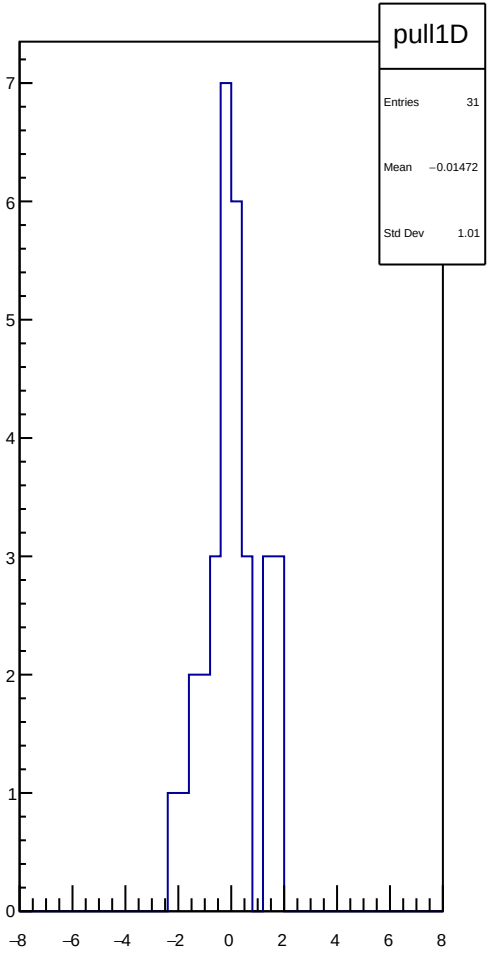

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.971e+05 / 30
p0 6.535e−11 ± 2.083e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

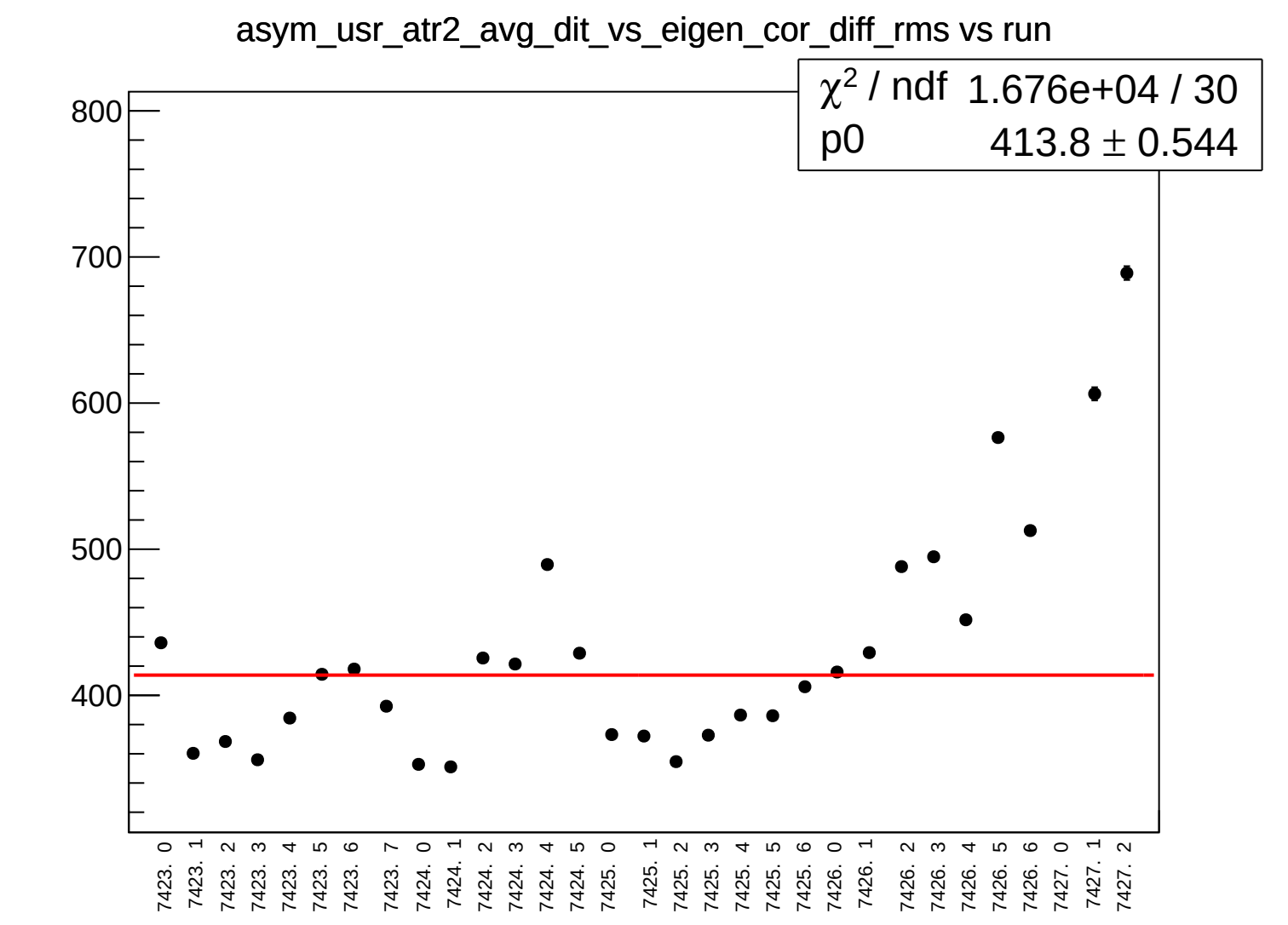

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.65 / 30
p0 −0.2641± 0.7693
pull
Entries 31
Mean −21.5
Std Dev 0

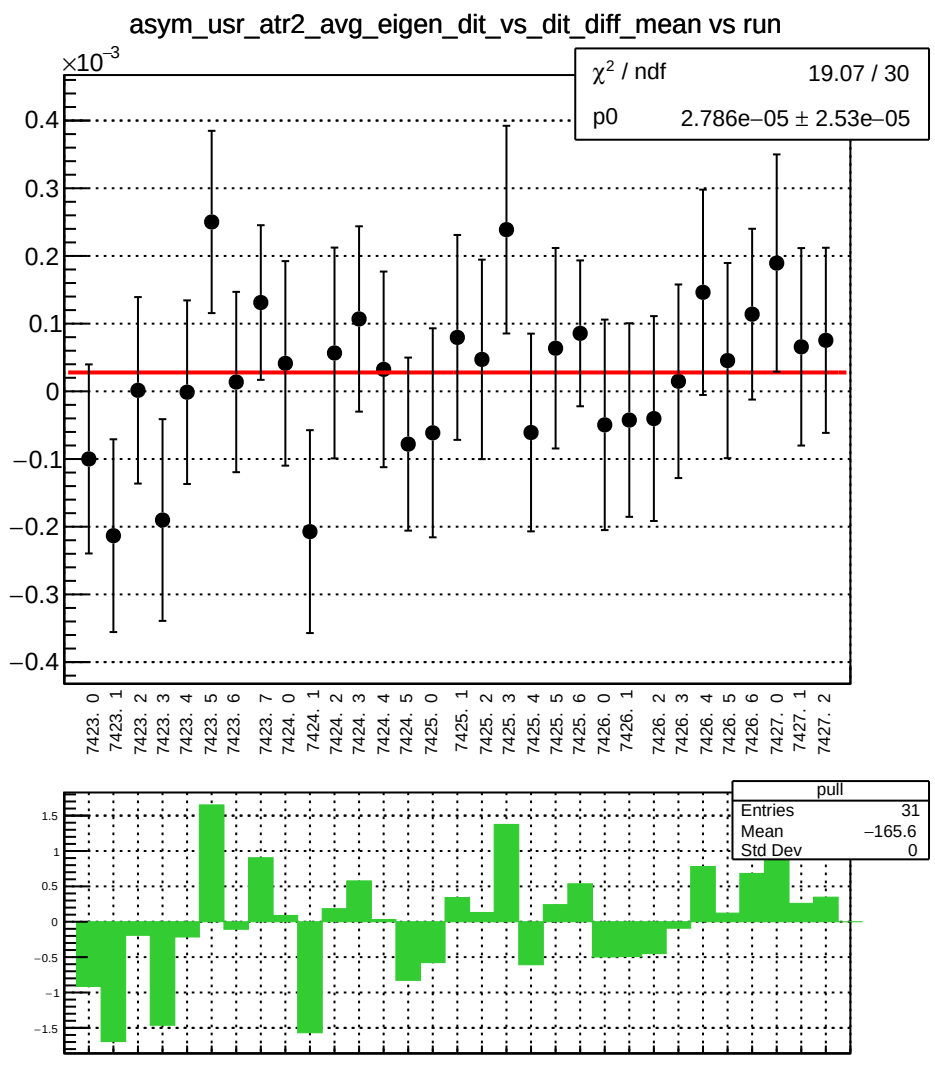

pull1D
Entries 31
Mean −0.01472
Std Dev 1.01

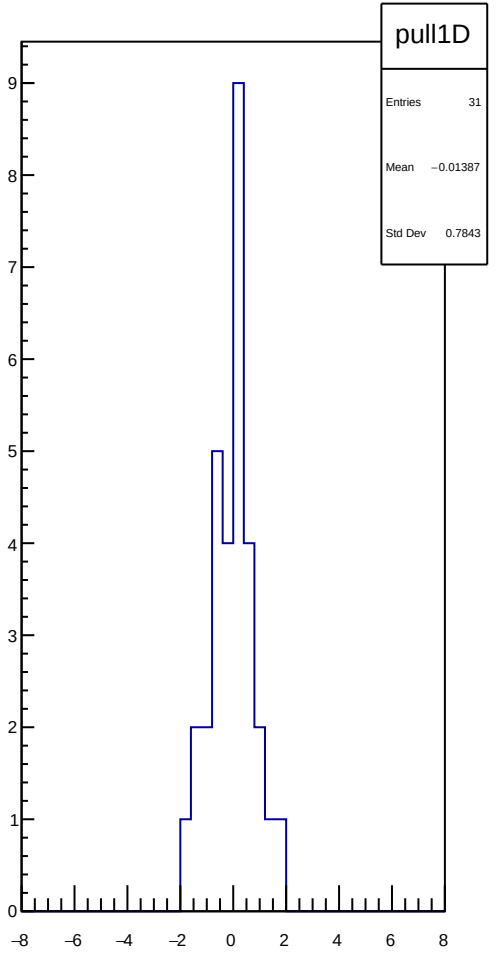

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.676e+04 / 30
p0 413.8 ± 0.544
800
700
600
500
400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

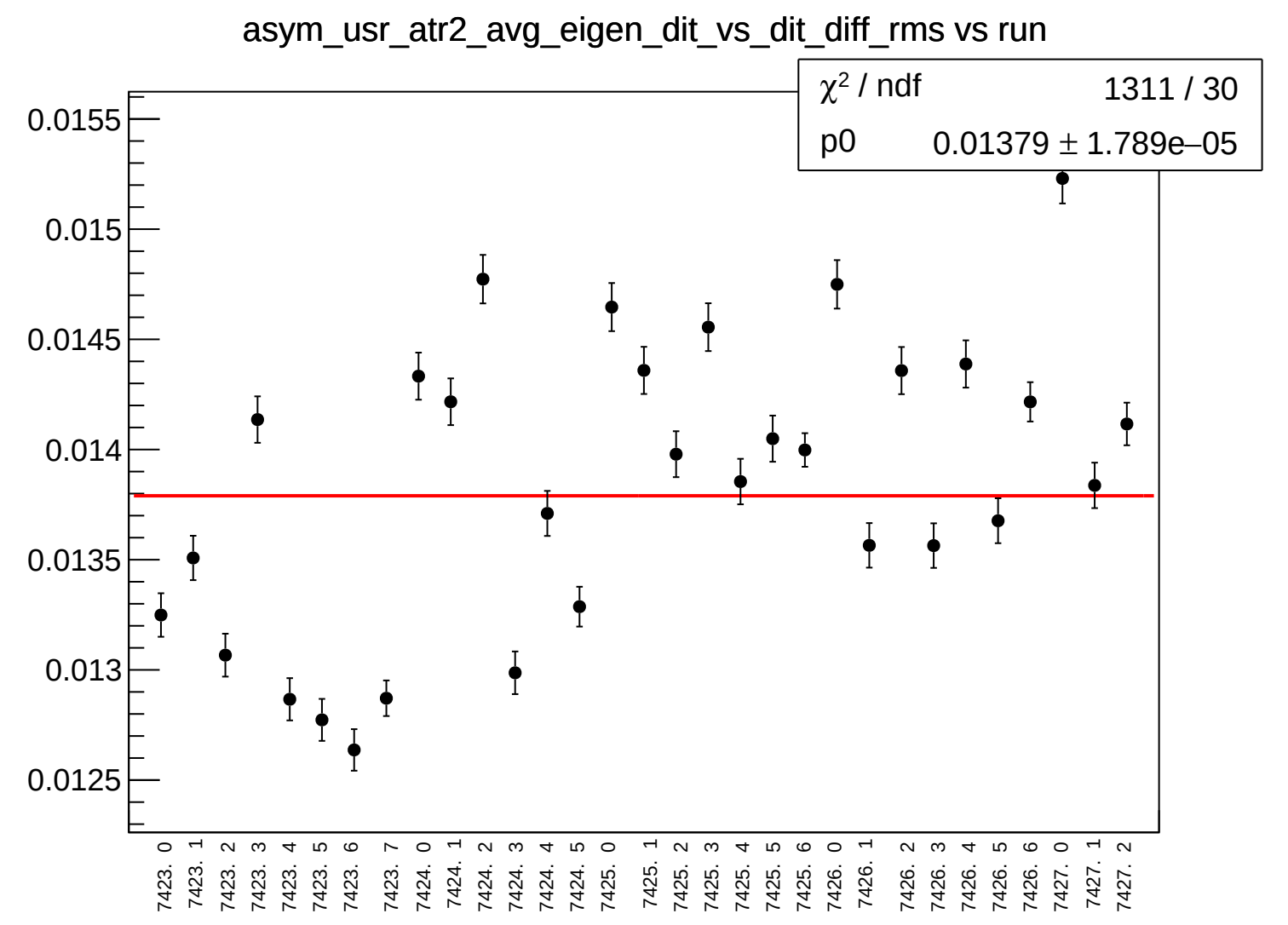

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.65 / 30
p0 −0.2641± 0.7693
15
10
5
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −21.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

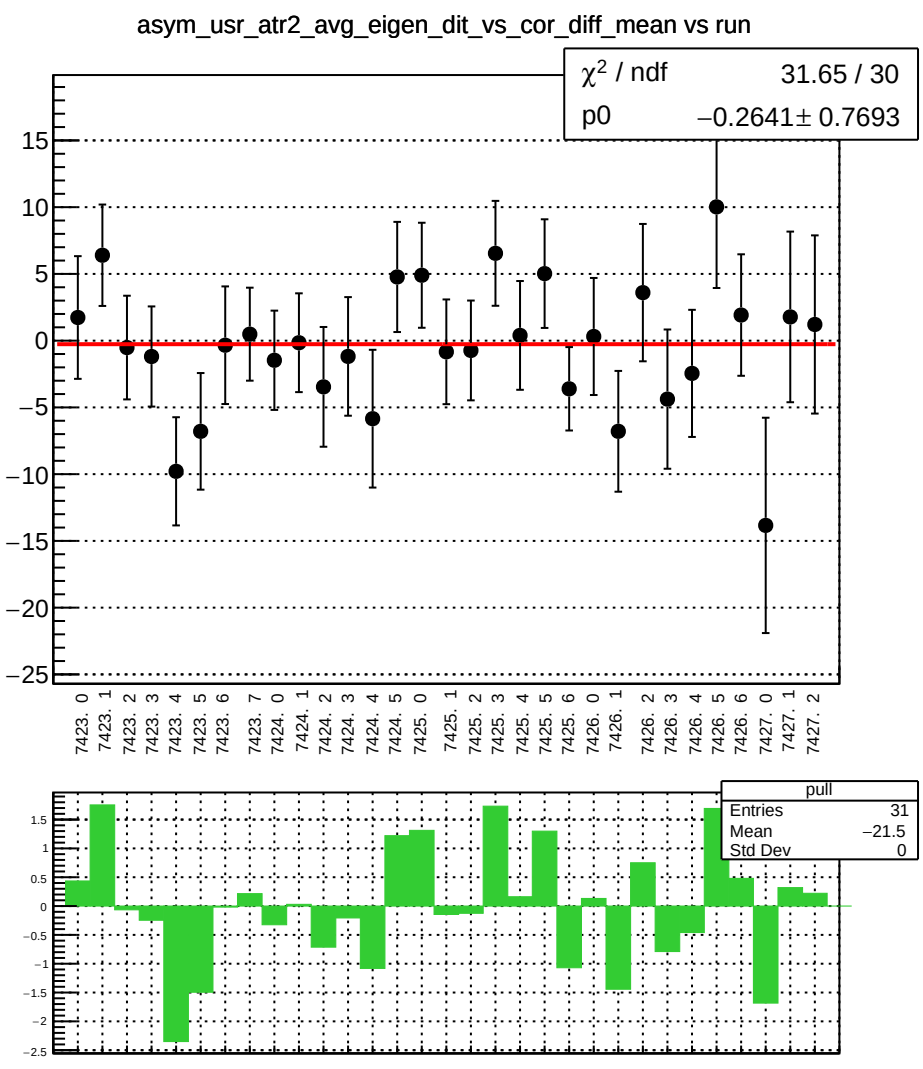

pull1D
Entries 31
Mean −0.01472
Std Dev 1.01
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

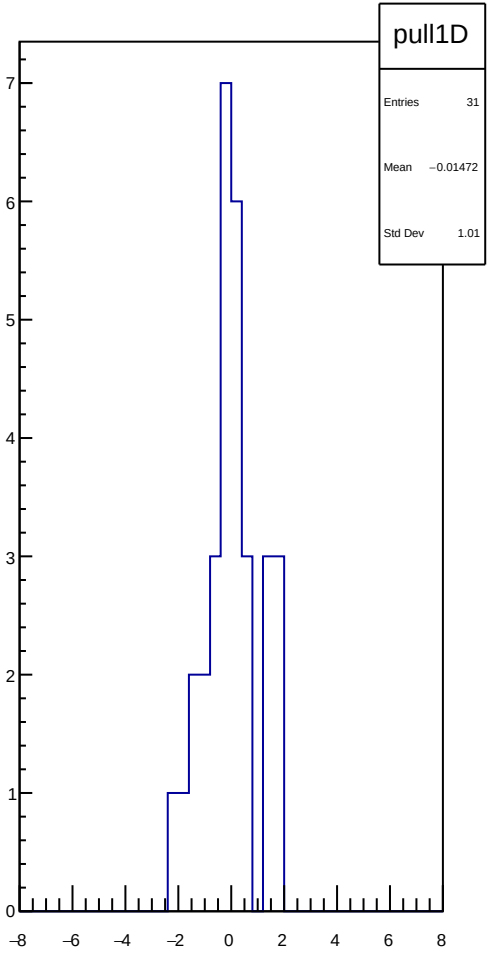

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.676e+04 / 30
p0 413.8 ± 0.544
800
700
600
500
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

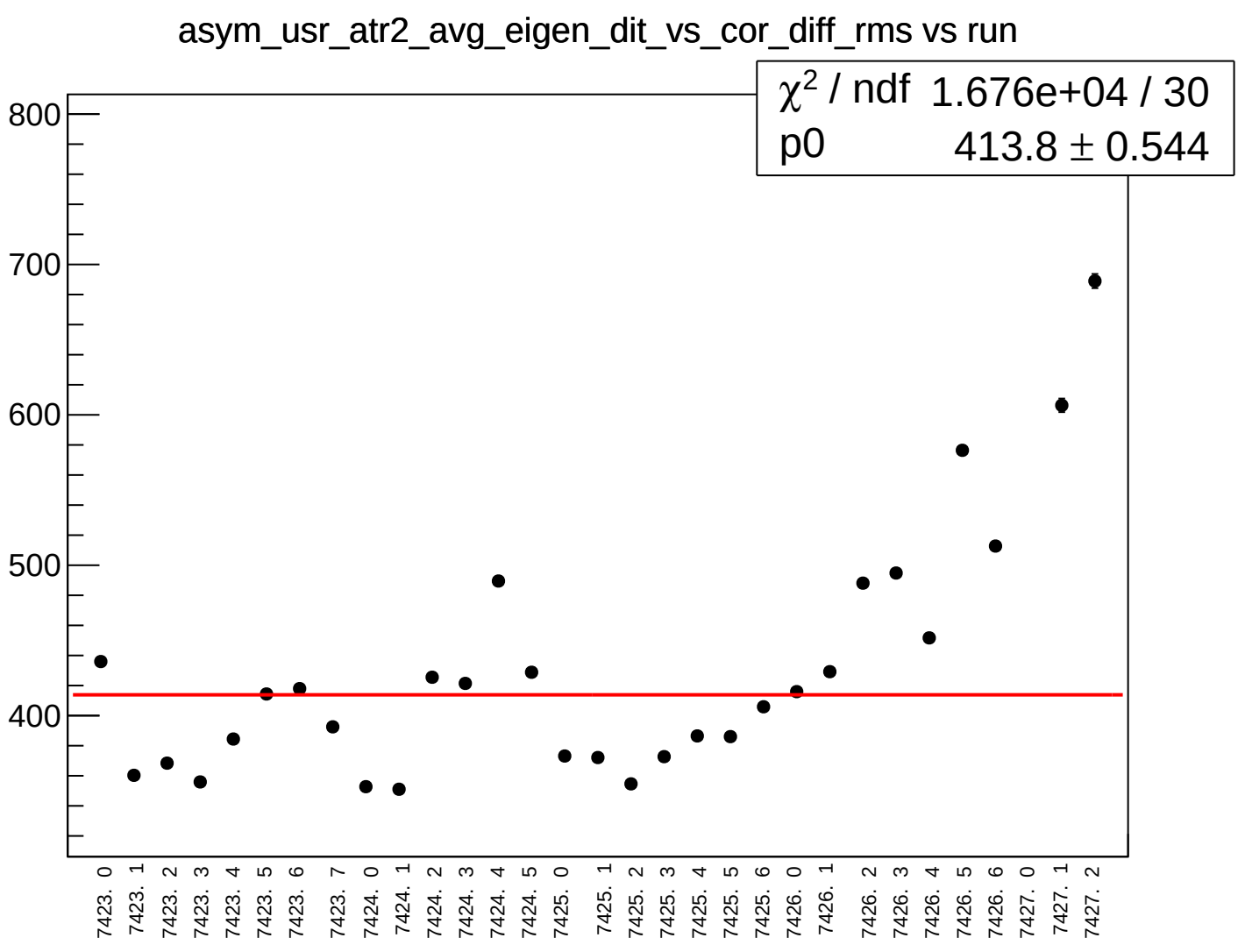

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.07 / 30
p0 2.786e−05 ± 2.53e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −165.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

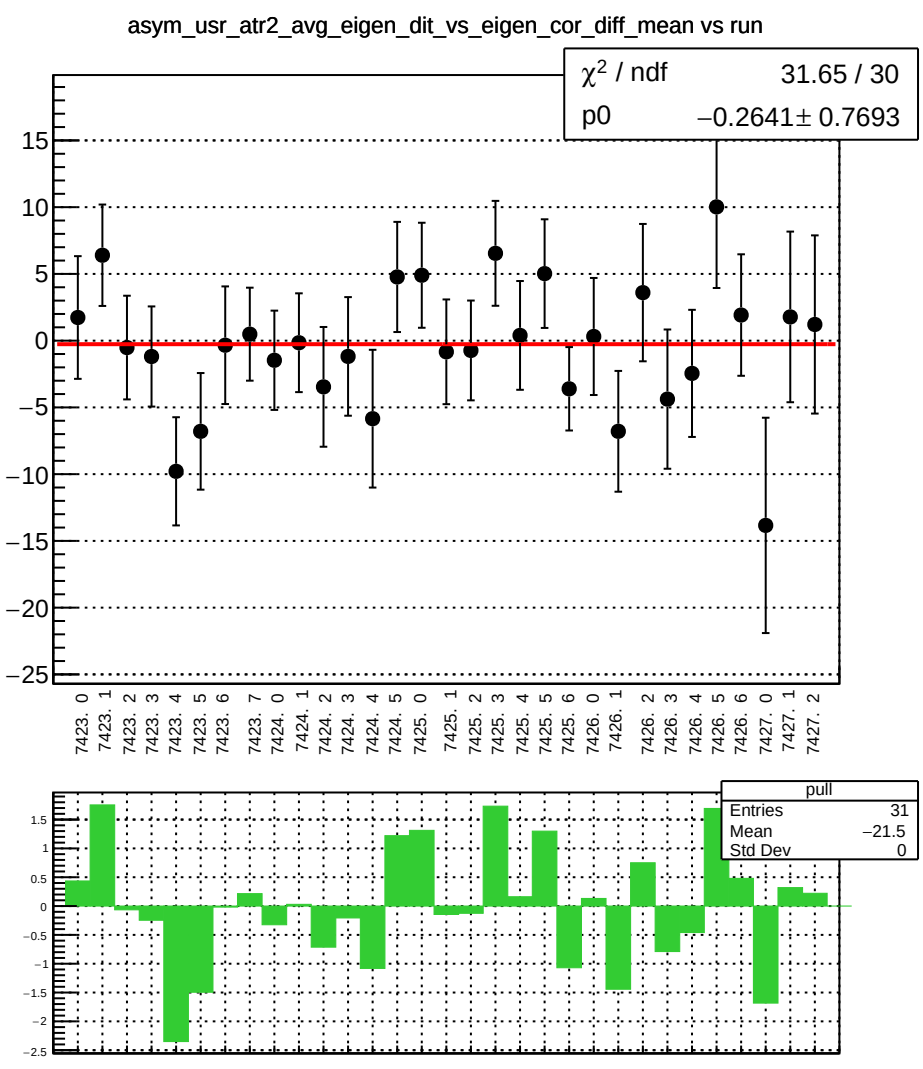

pull1D
Entries 31
Mean −0.01387
Std Dev 0.7843
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

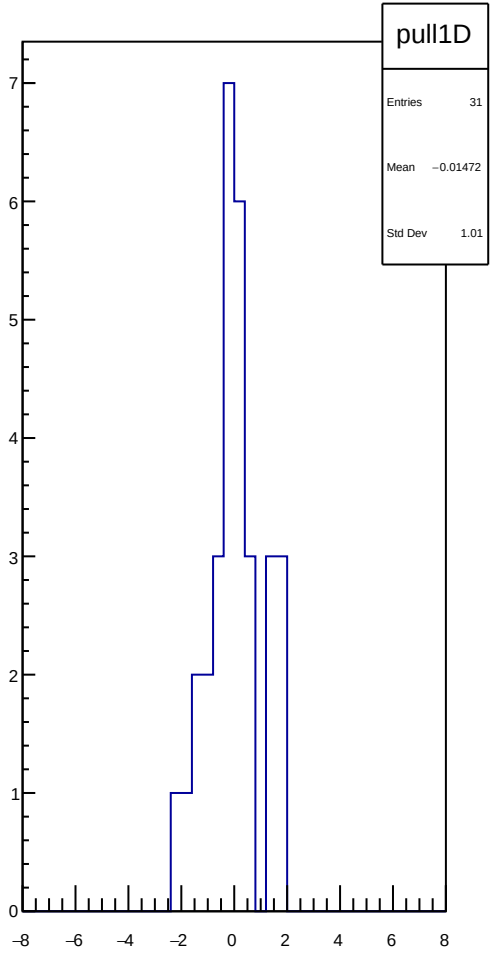

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1311 / 30
p0 0.01379 ± 1.789e–05
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

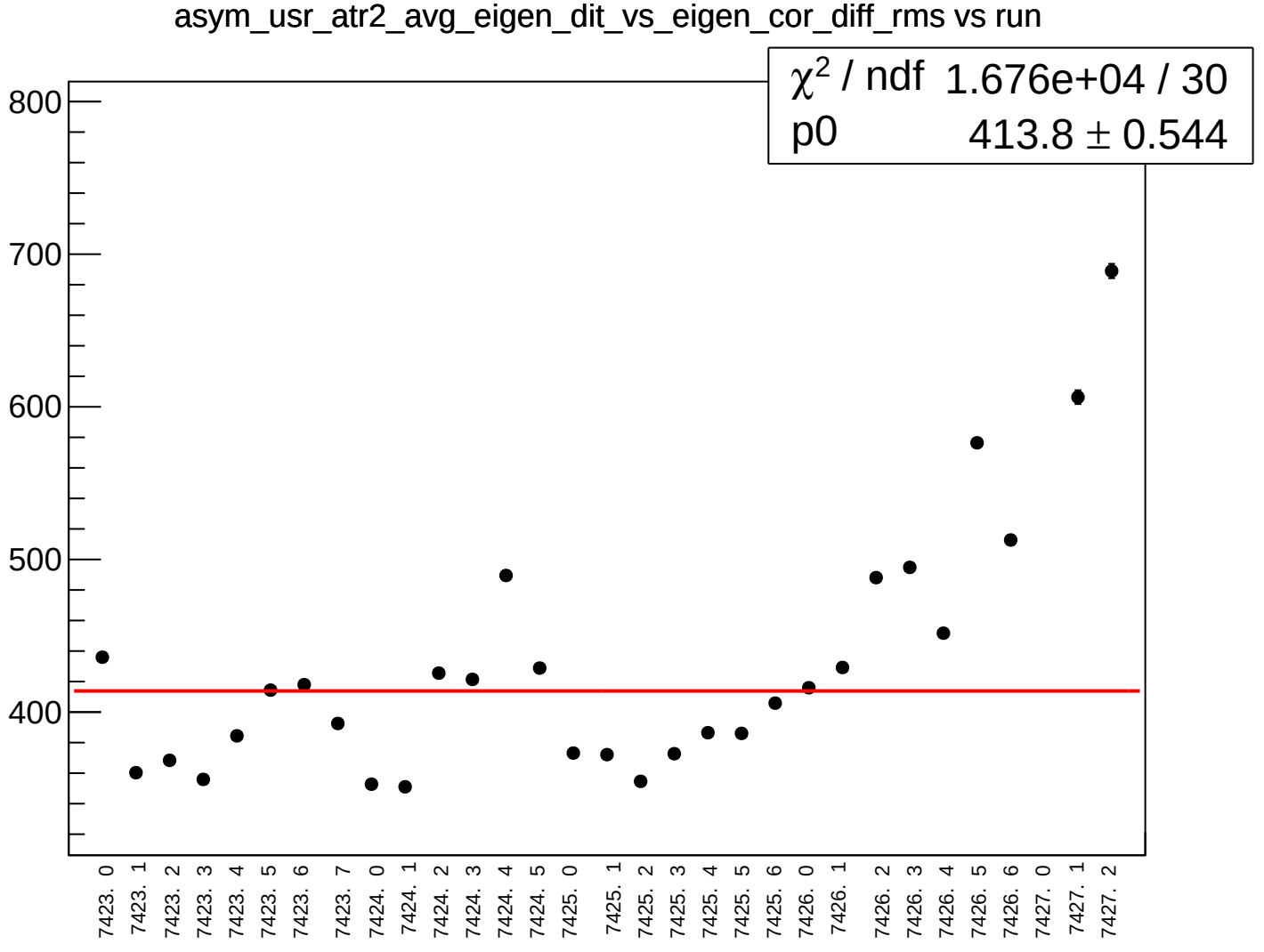

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.65 / 30
p0 −0.2641± 0.7693
pull
Entries 31
Mean −21.5
Std Dev 0

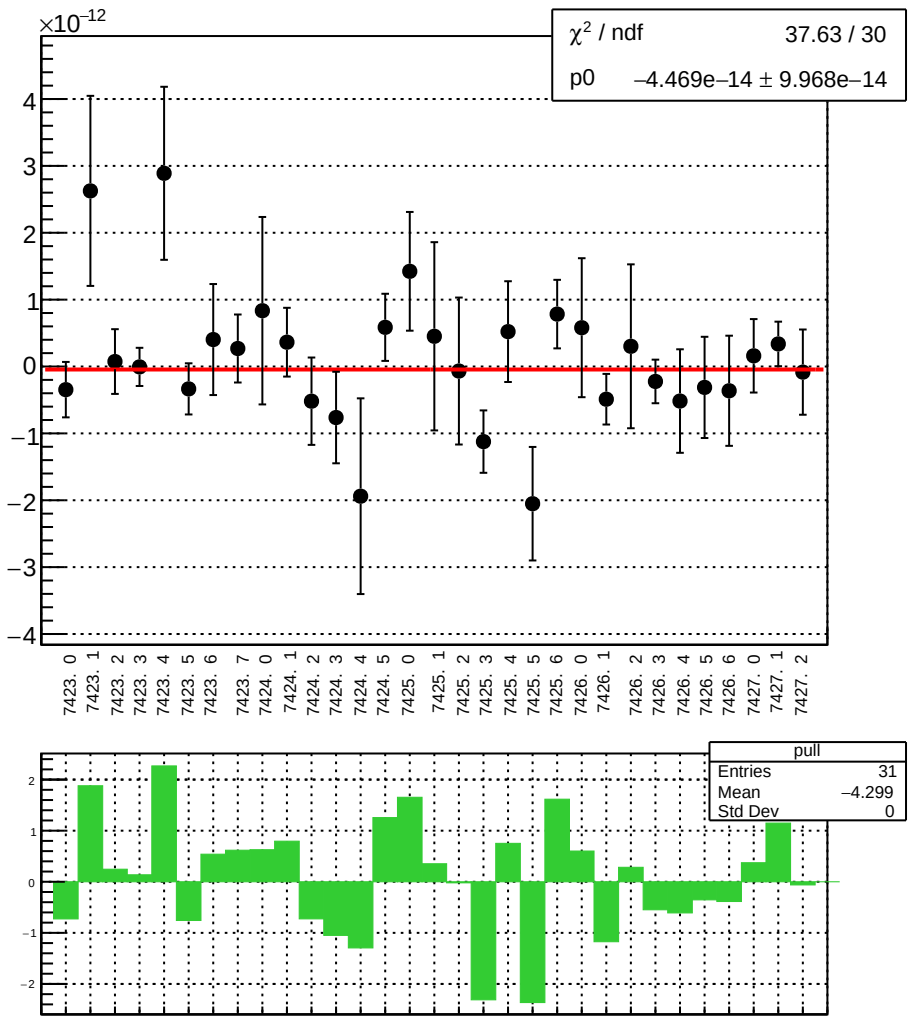

pull1D
Entries 31
Mean −0.01472
Std Dev 1.01

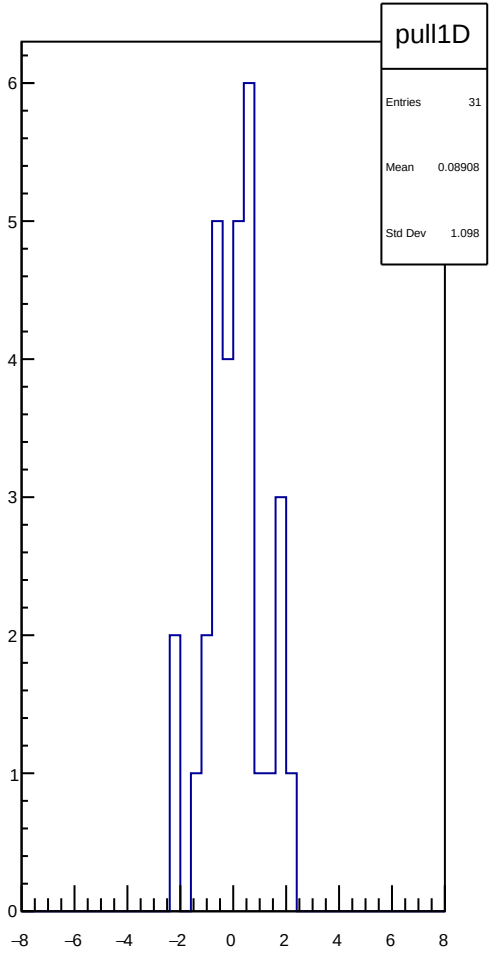

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.676e+04 / 30
p0 413.8 ± 0.544
800
700
600
500
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

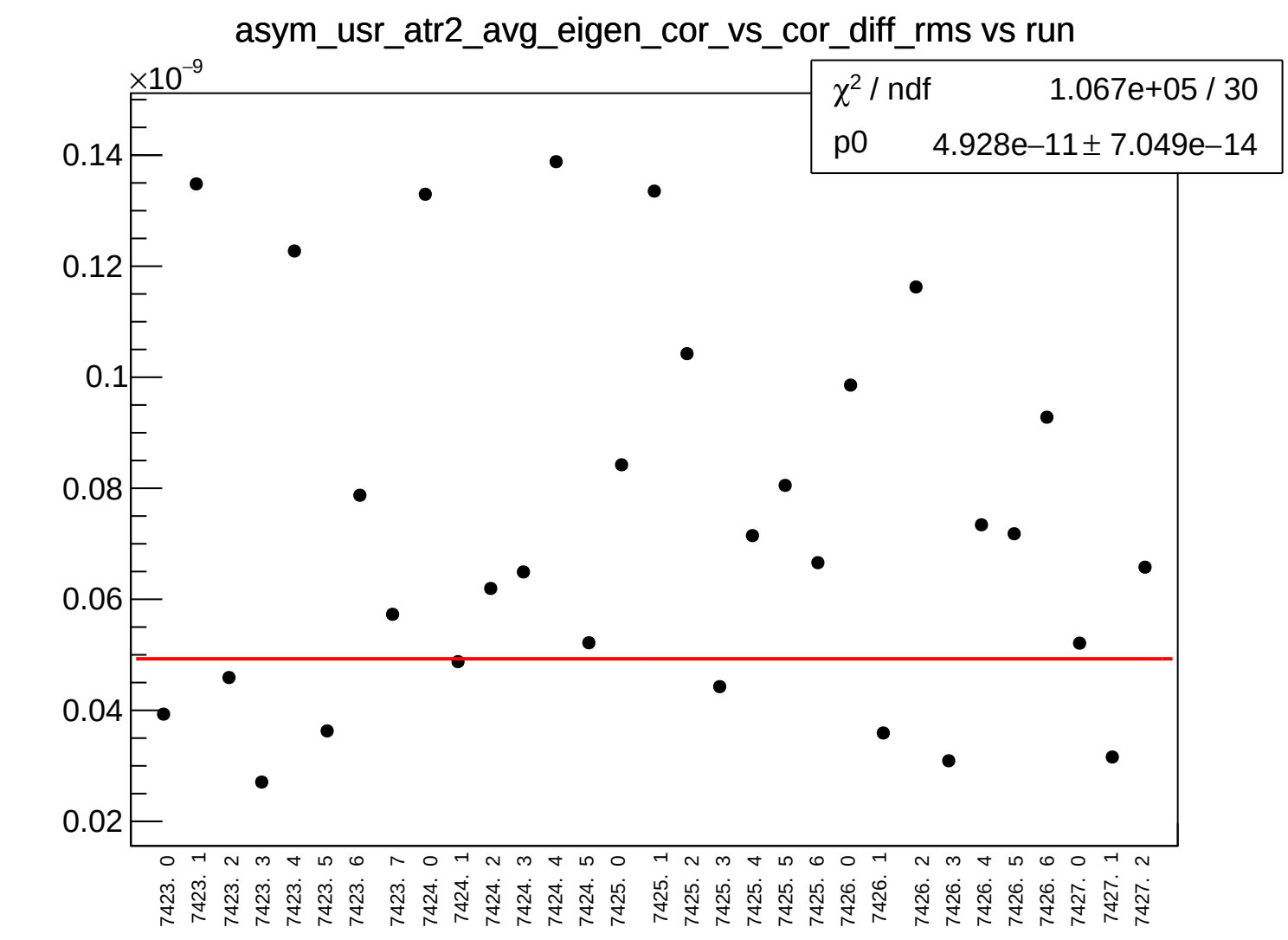

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.65 / 30
p0 −0.2641± 0.7693
15
10
5
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −21.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

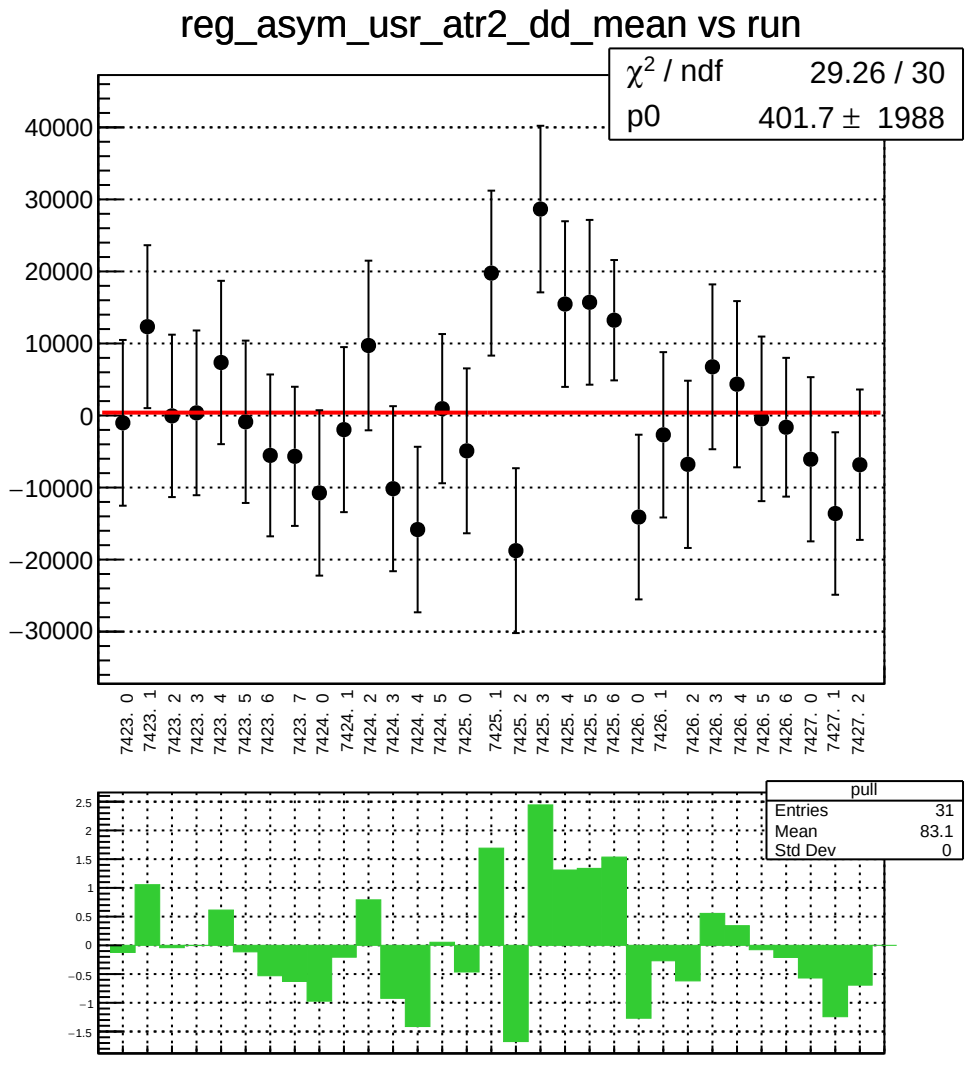

pull1D
Entries 31
Mean −0.01472
Std Dev 1.01
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

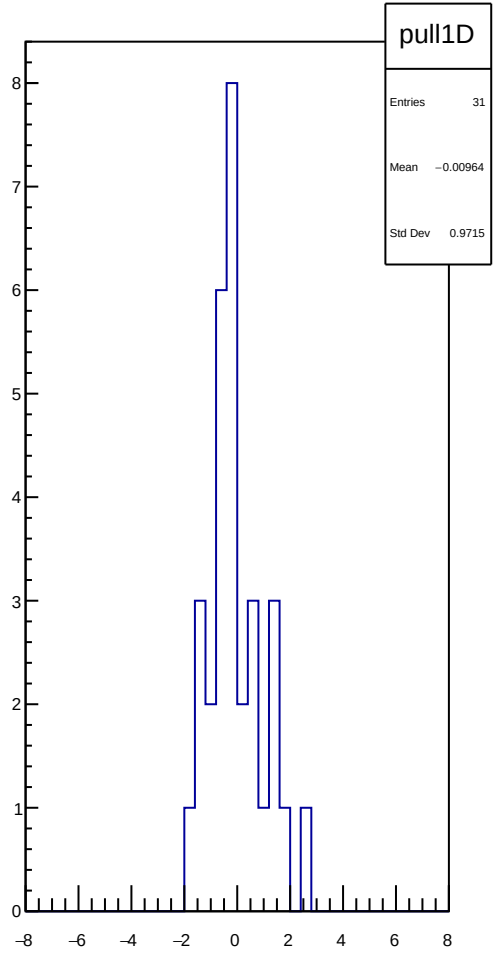

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.676e+04 / 30
p0 413.8 ± 0.544
800
700
600
500
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

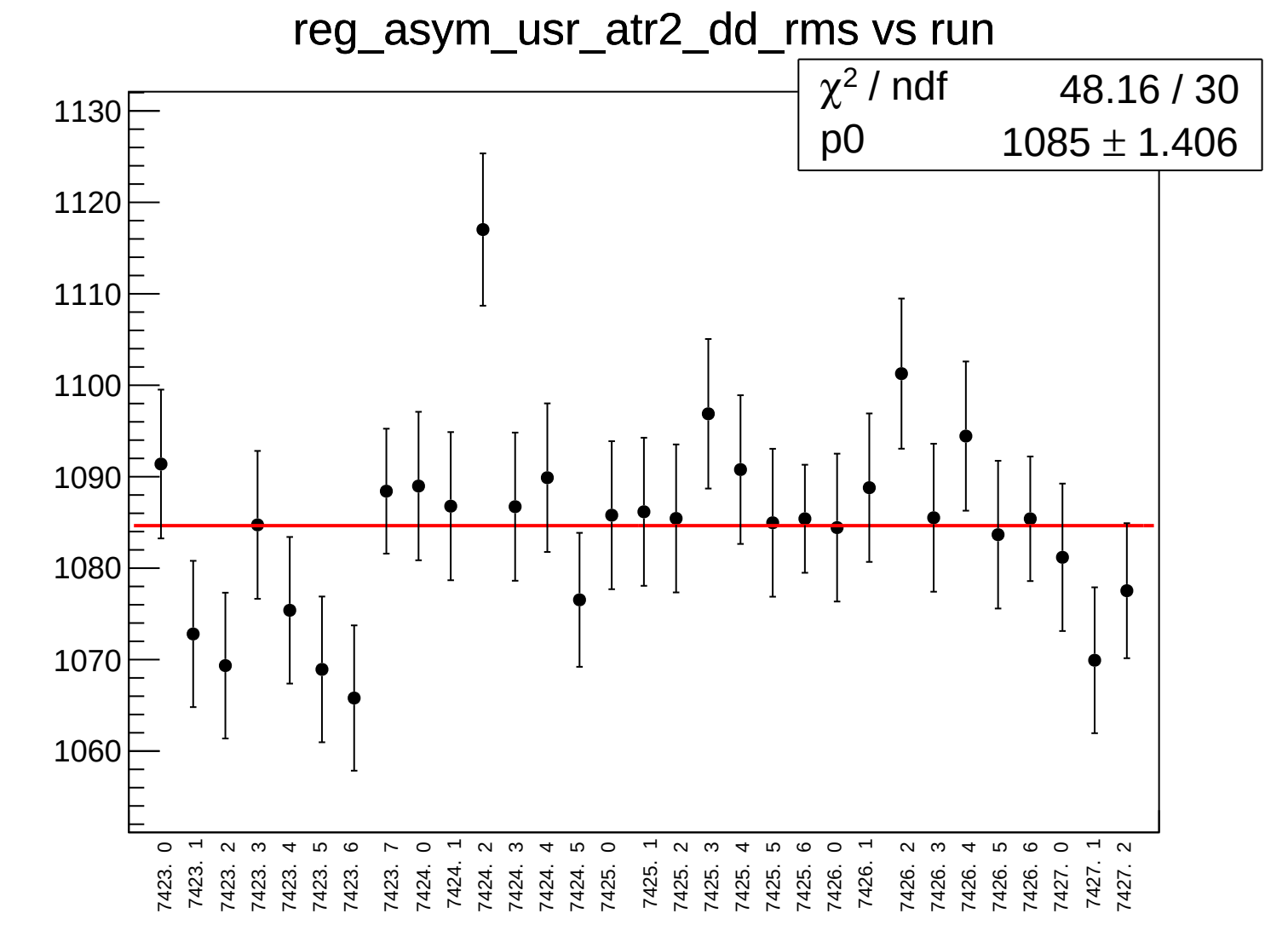

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.63 / 30
p0 −4.469e−14 ± 9.968e−14
pull
Entries 31
Mean −4.299
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

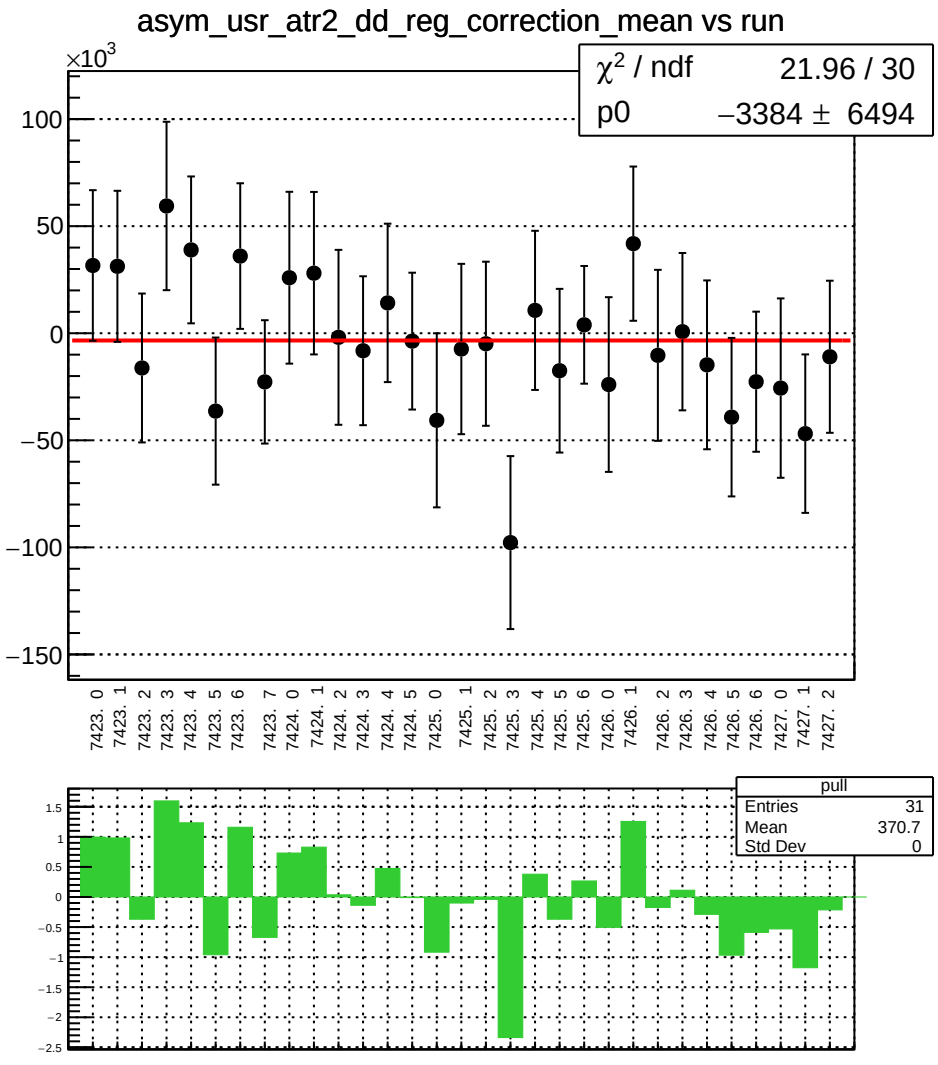

pull1D
Entries 31
Mean 0.08908
Std Dev 1.098

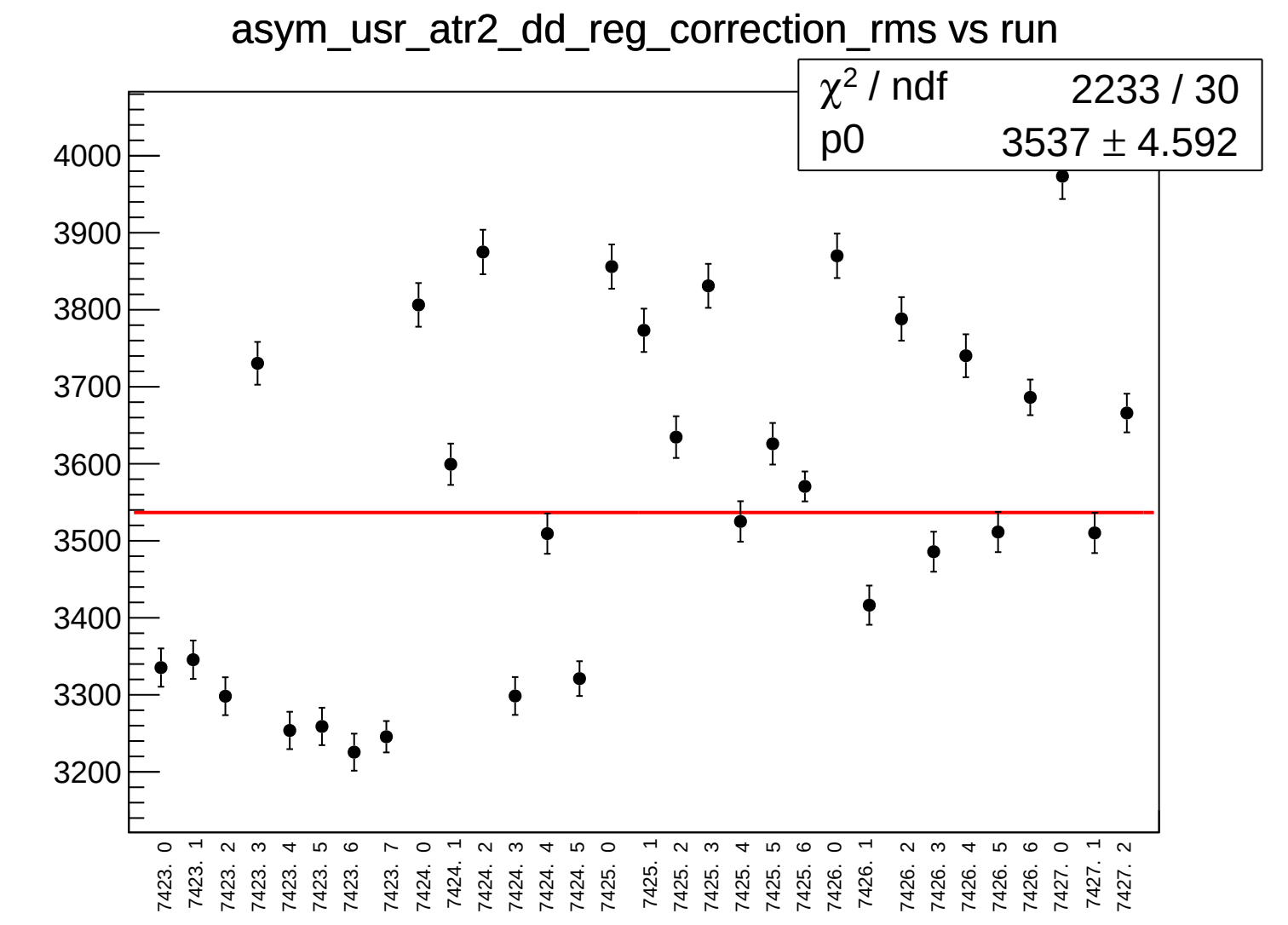

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.067e+05 / 30
p0 4.928e−11 ± 7.049e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

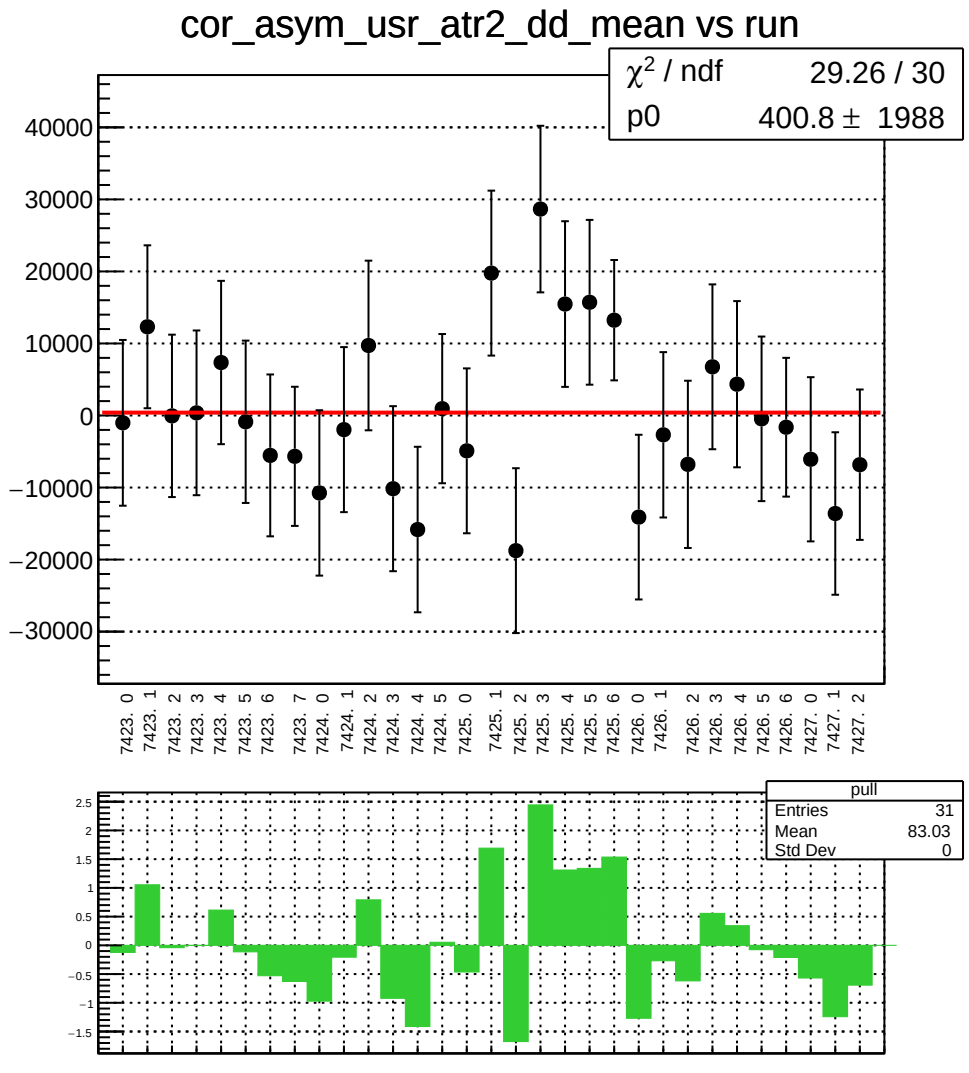

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 29.26 / 30
p0 401.7 ± 1988
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 83.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

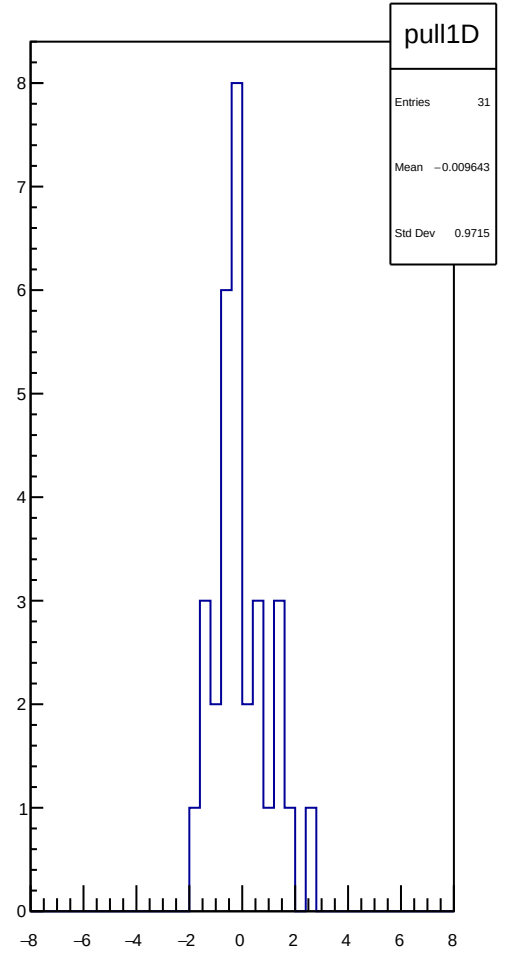

pull1D
Entries 31
Mean −0.00964
Std Dev 0.9715
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

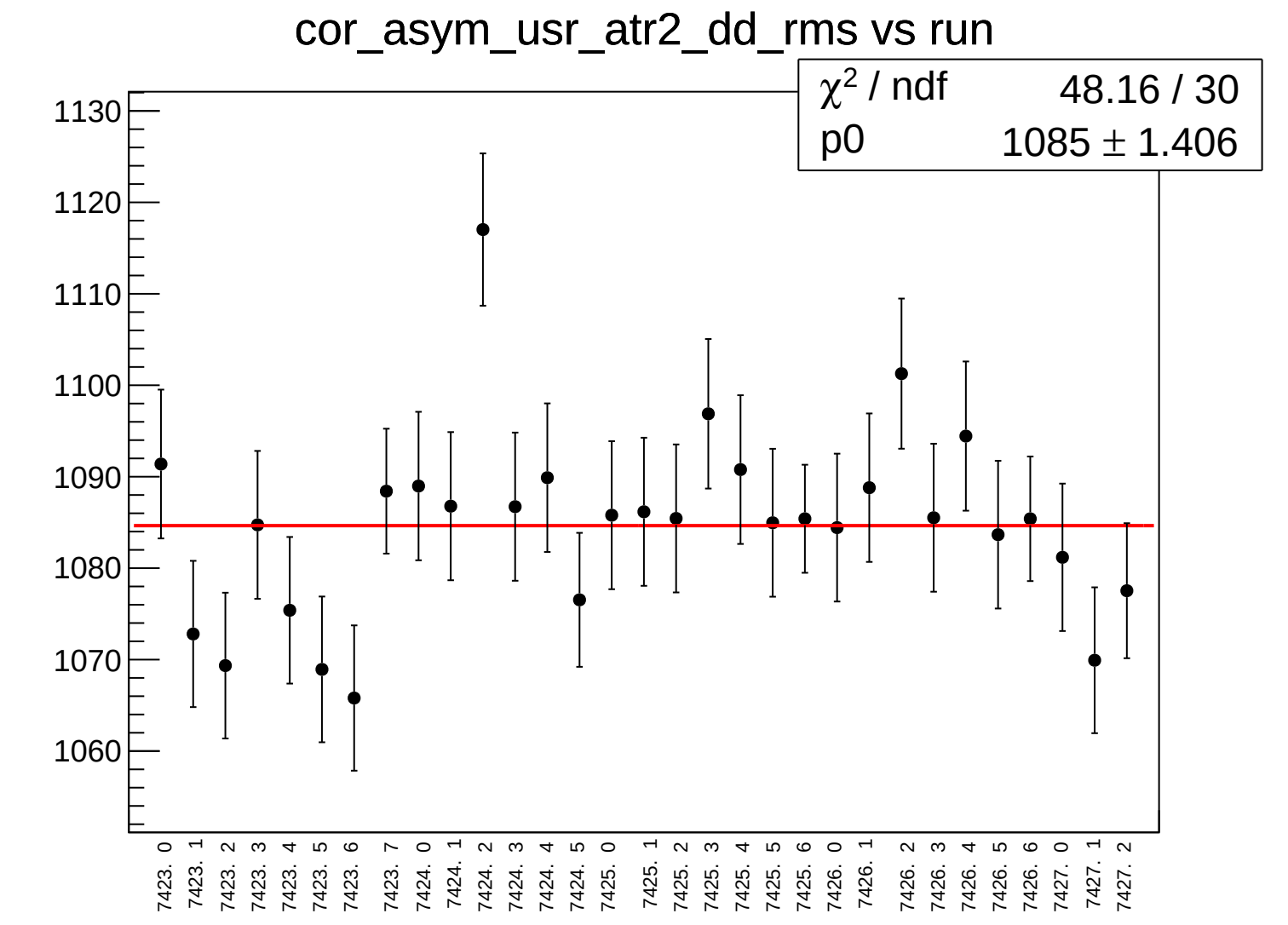

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 48.16 / 30
p0 1085 ± 1.406
1130
1120
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

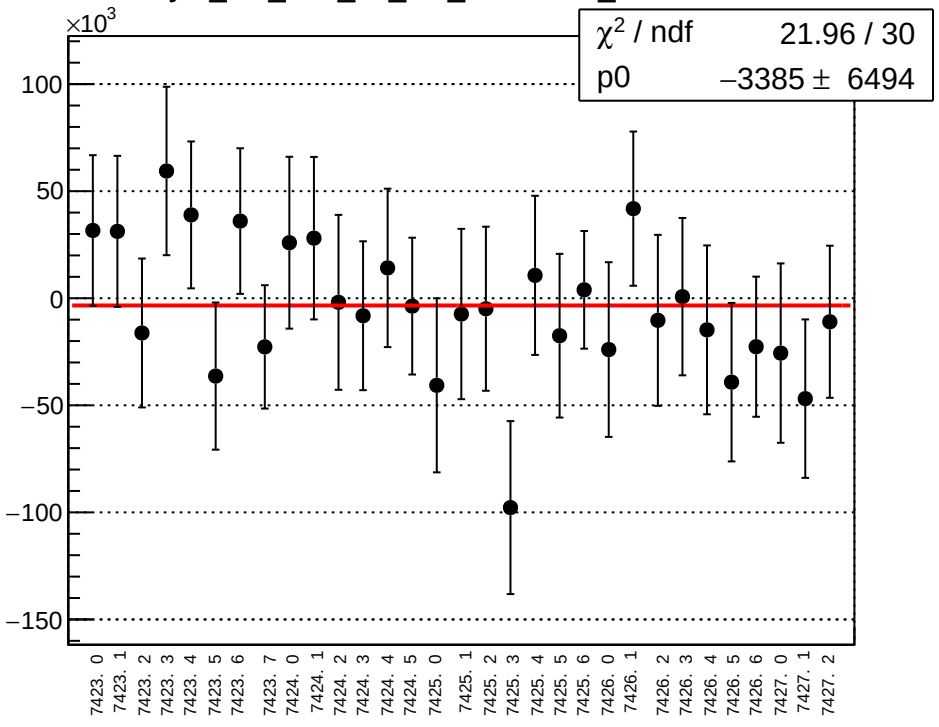

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 21.96 / 30
p0 −3384 ± 6494
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 370.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.009789
Std Dev 0.8417
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

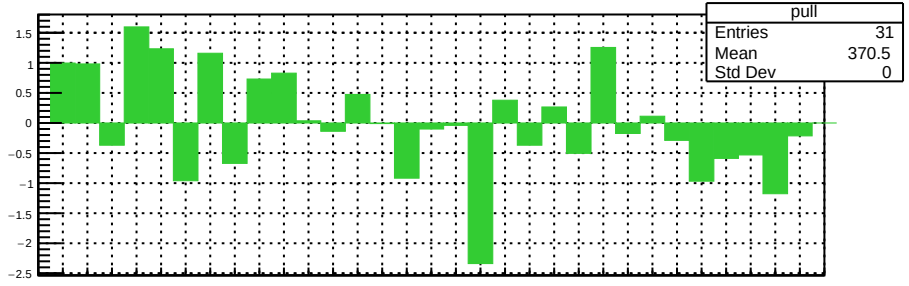

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 2233 / 30
p0 3537 ± 4.592
4000
3900
3800
3700
3600
3500
3400
3300
3200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

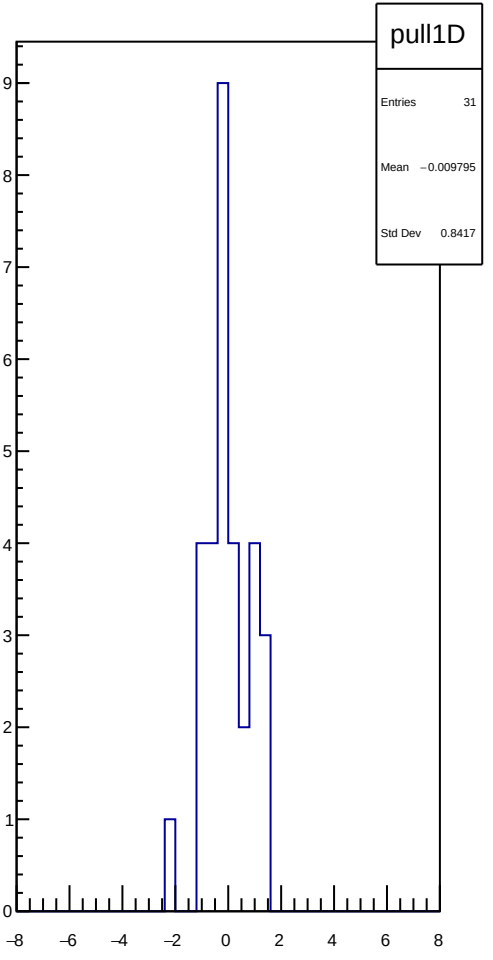

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 29.26 / 30
p0 400.8 ± 1988
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 83.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

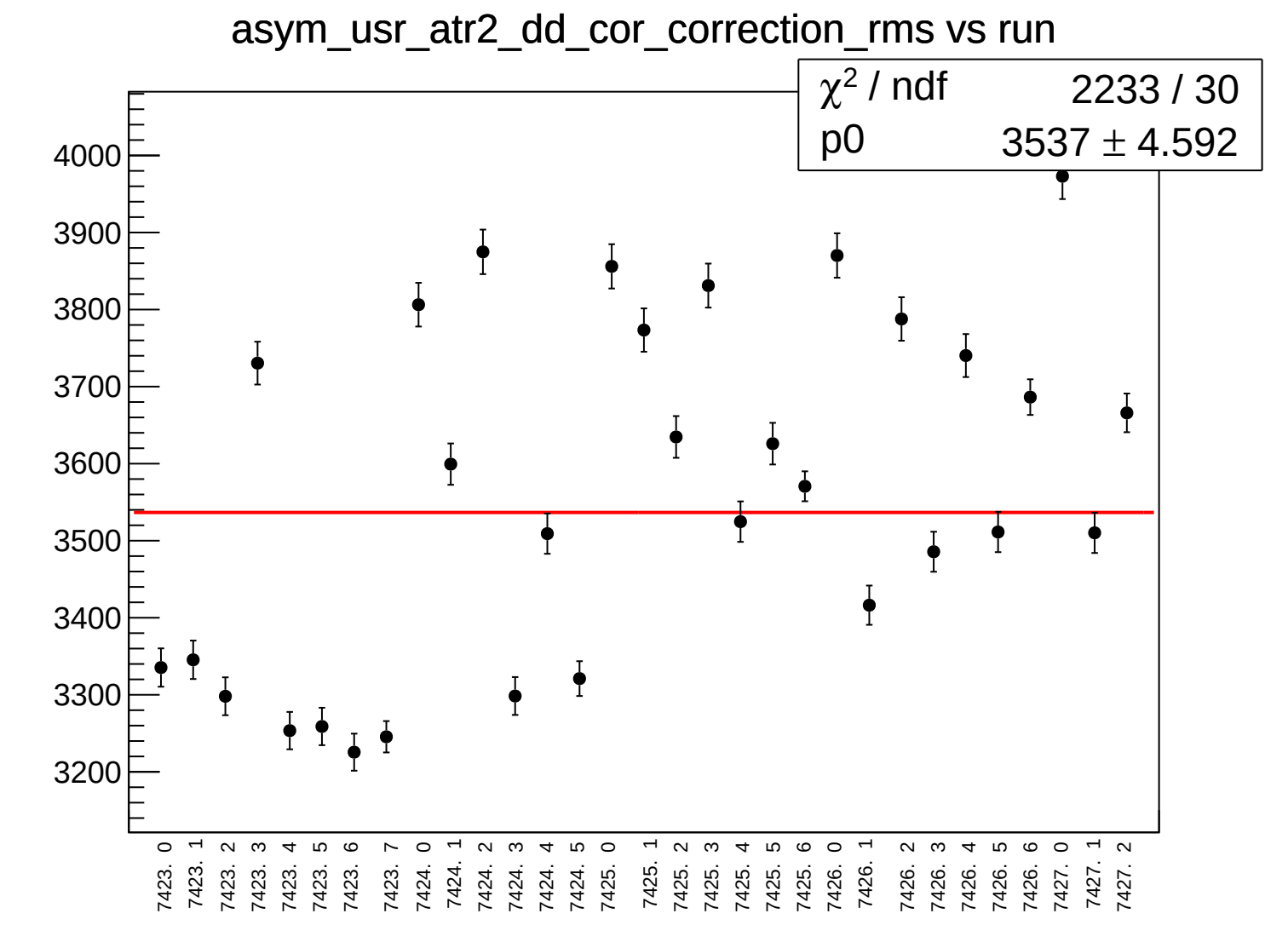

pull1D
Entries 31
Mean −0.009643
Std Dev 0.9715
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

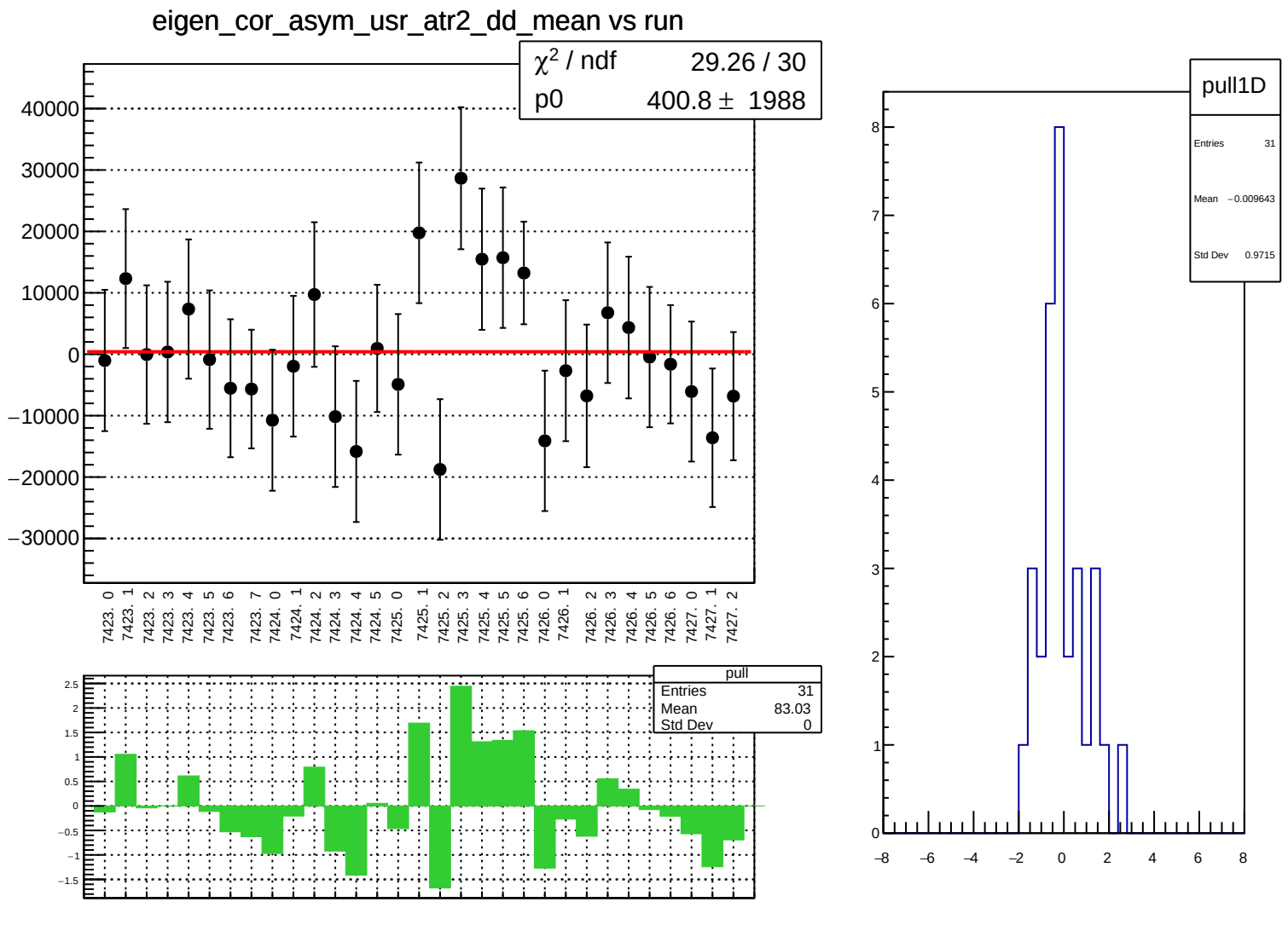

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 48.16 / 30
p0 1085 ± 1.406
1130
1120
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

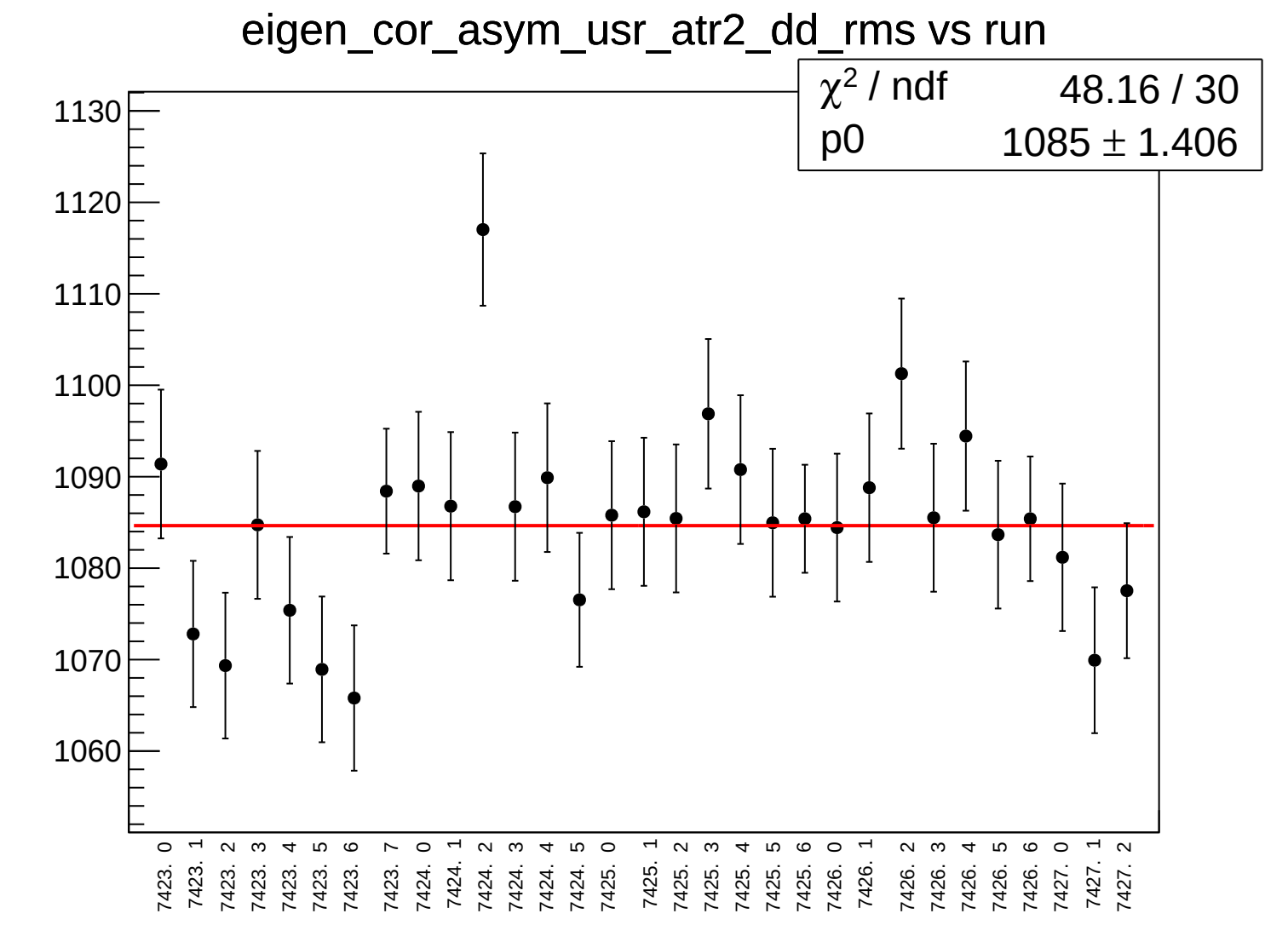

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 21.96 / 30
p0 −3385 ± 6494
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

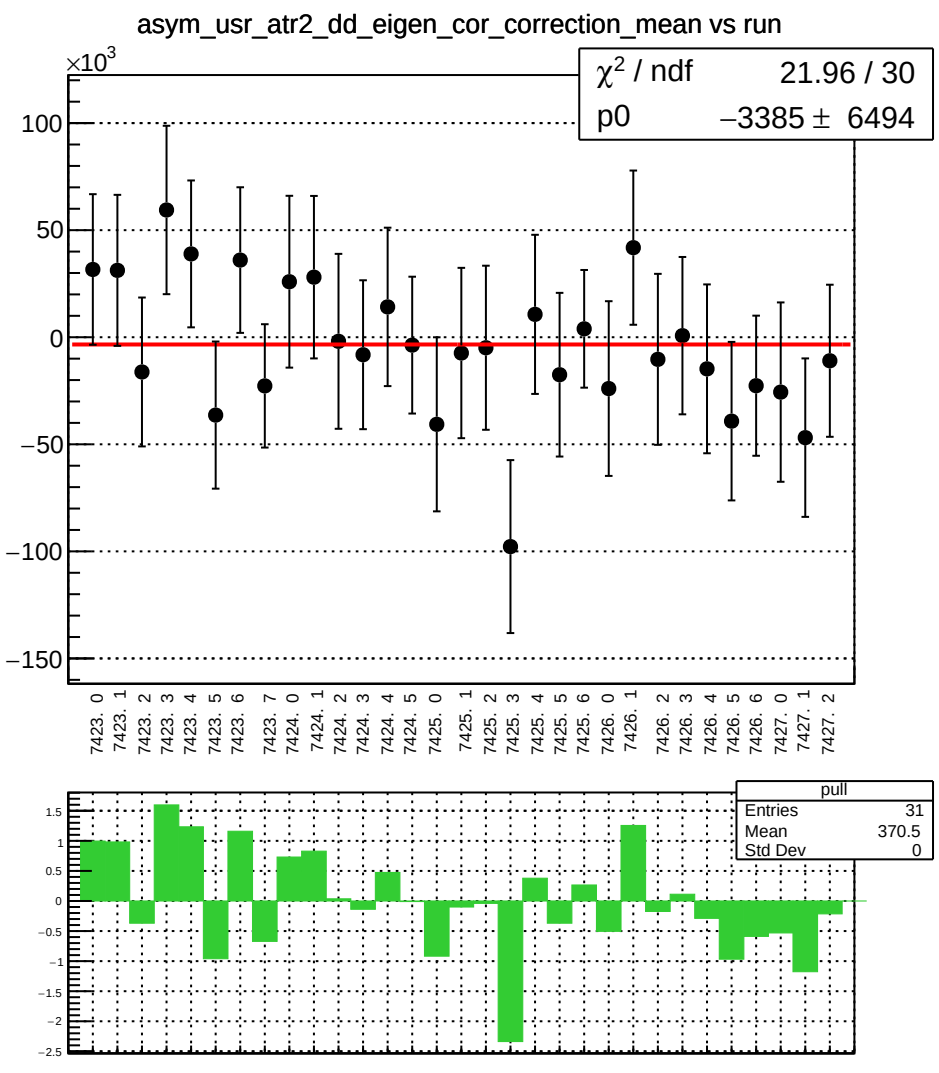

pull
Entries 31
Mean 370.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

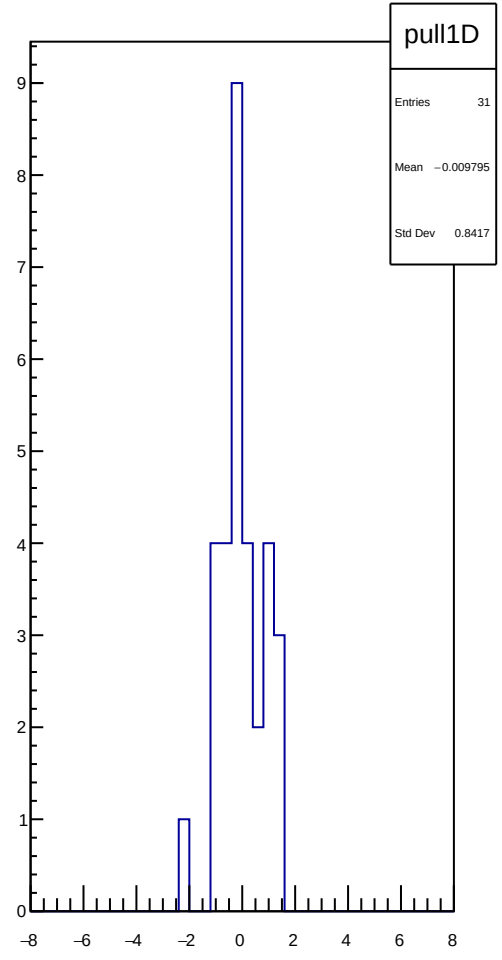

pull1D
Entries 31
Mean −0.009795
Std Dev 0.8417
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

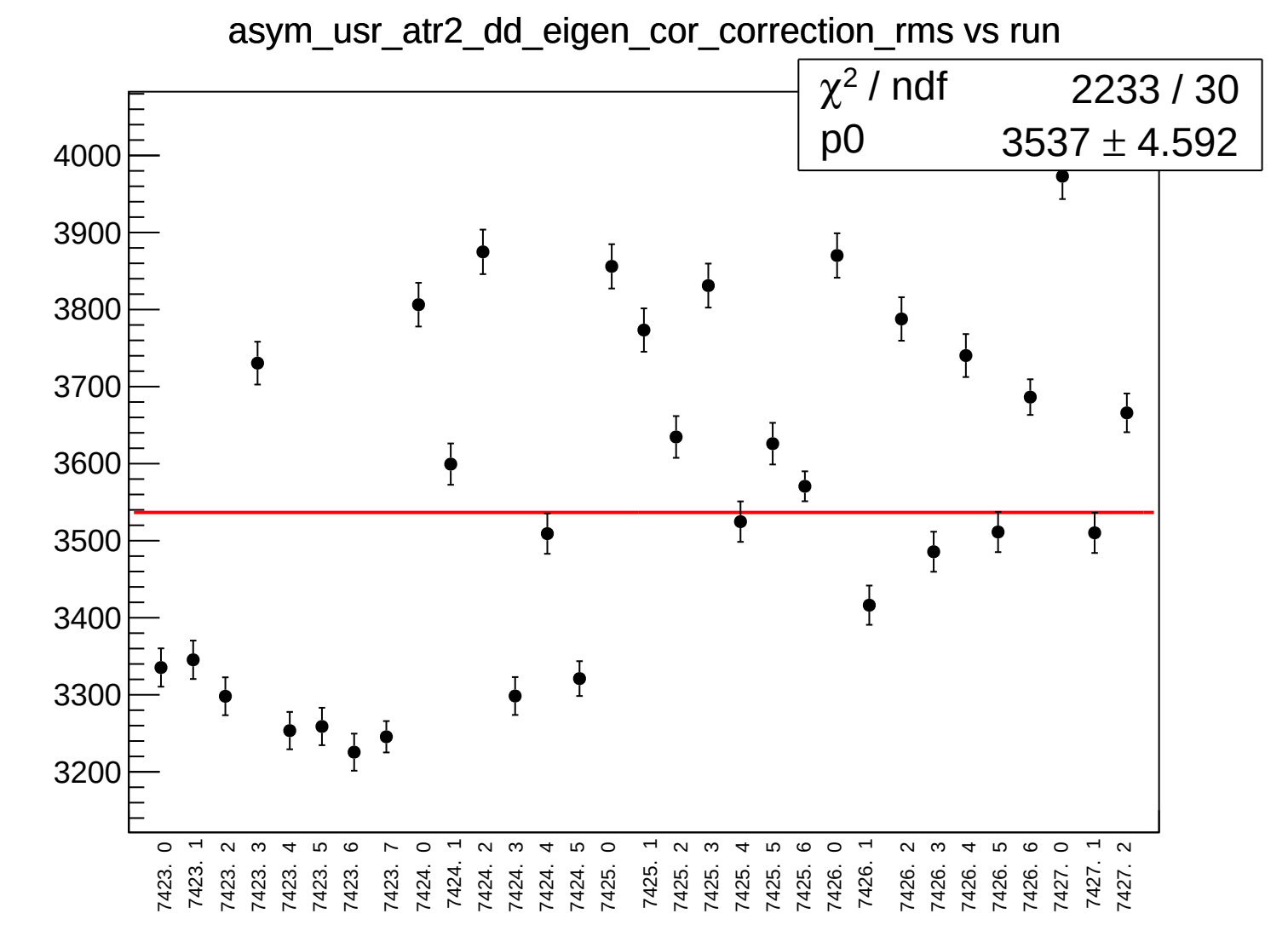

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 2233 / 30
p0 3537 ± 4.592
4000
3900
3800
3700
3600
3500
3400
3300
3200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

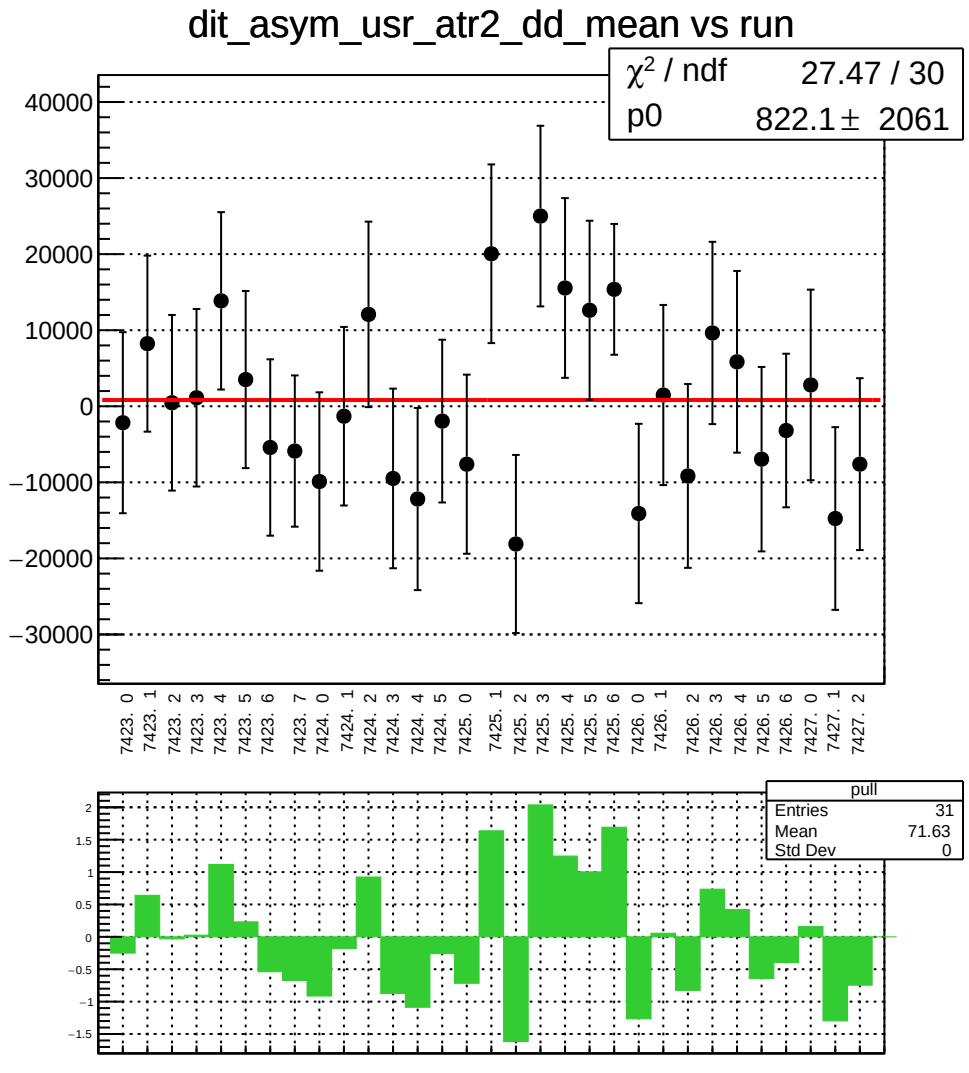

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 29.26 / 30
p0 400.8 ± 1988
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 83.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.009643
Std Dev 0.9715
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

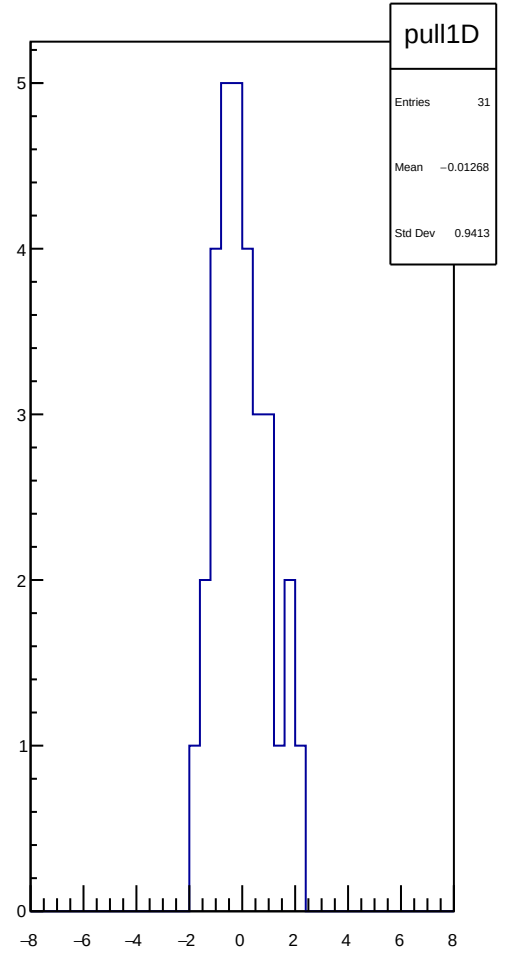

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 48.16 / 30
p0 1085 ± 1.406
1130
1120
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

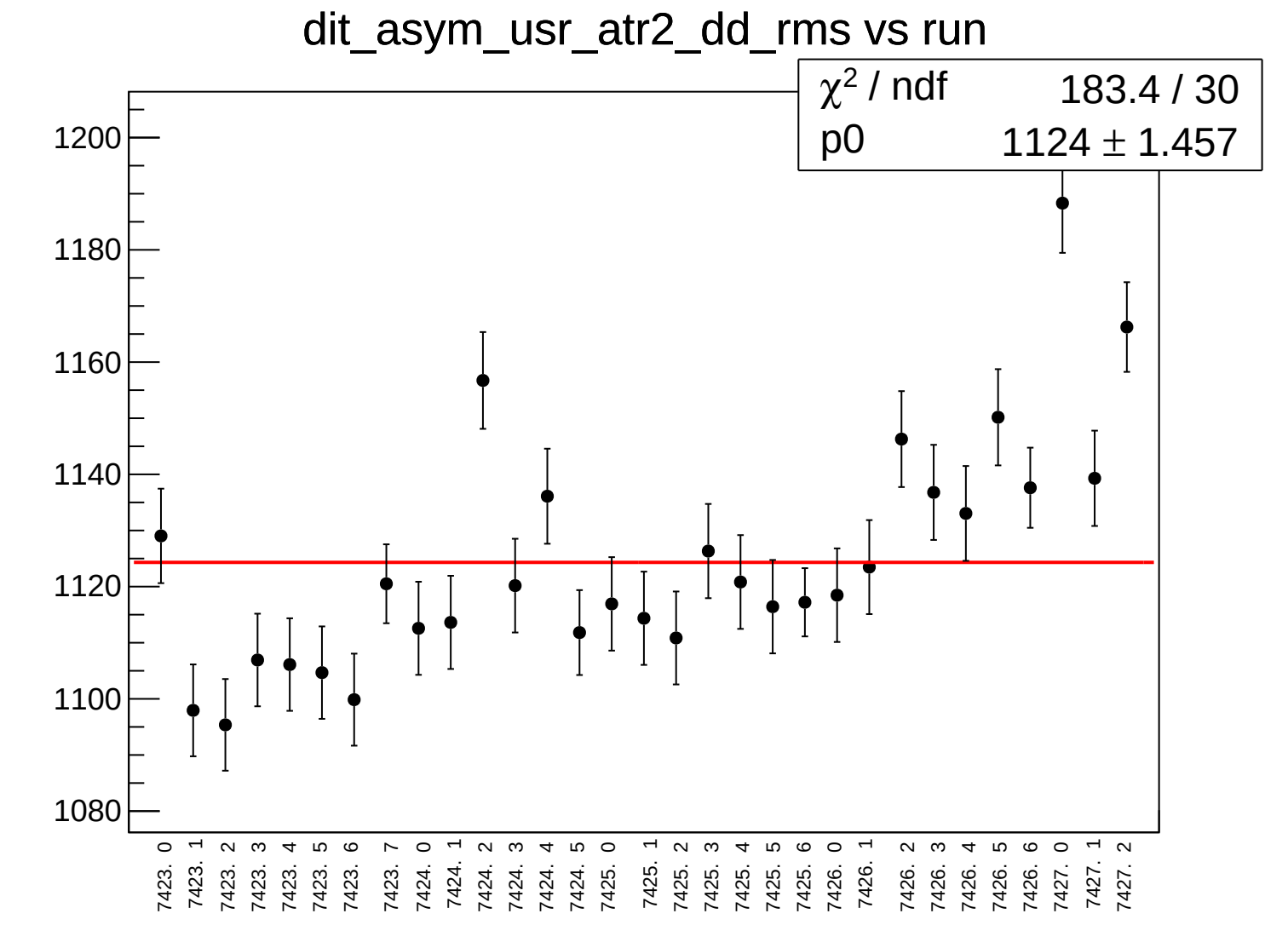

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.96 / 30
p0 −3385 ± 6494
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 370.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

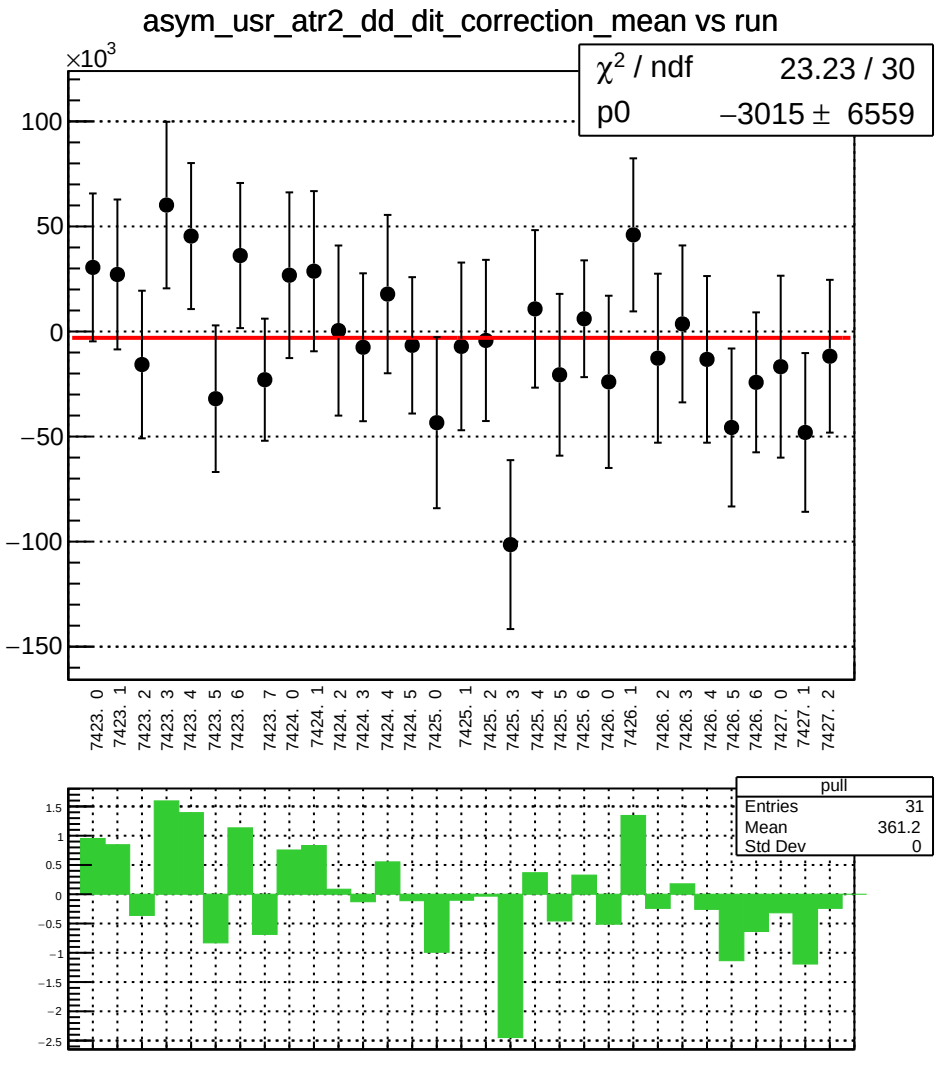

pull1D
Entries 31
Mean −0.009795
Std Dev 0.8417
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

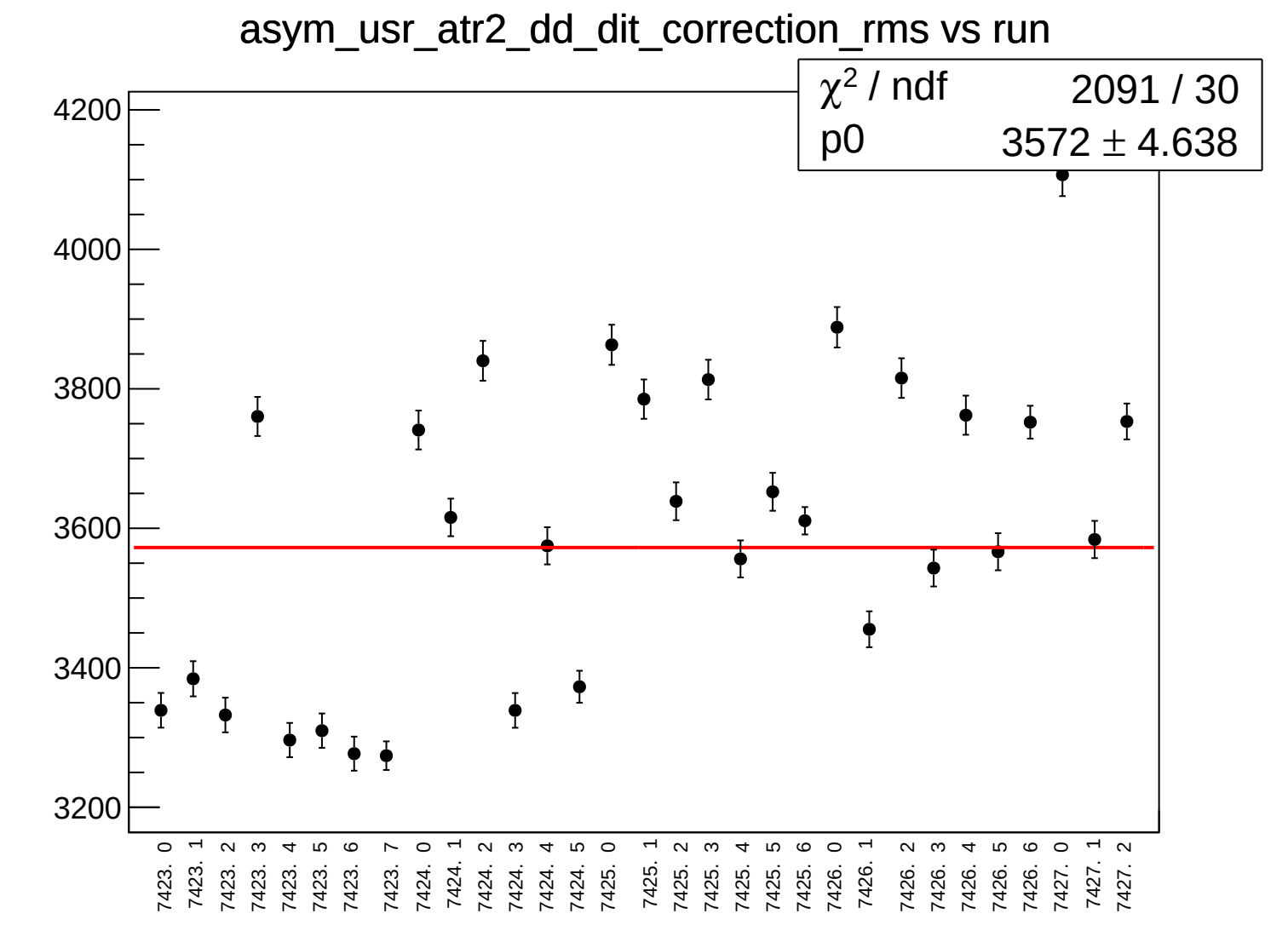

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2233 / 30
p0 3537 ± 4.592
4000
3900
3800
3700
3600
3500
3400
3300
3200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

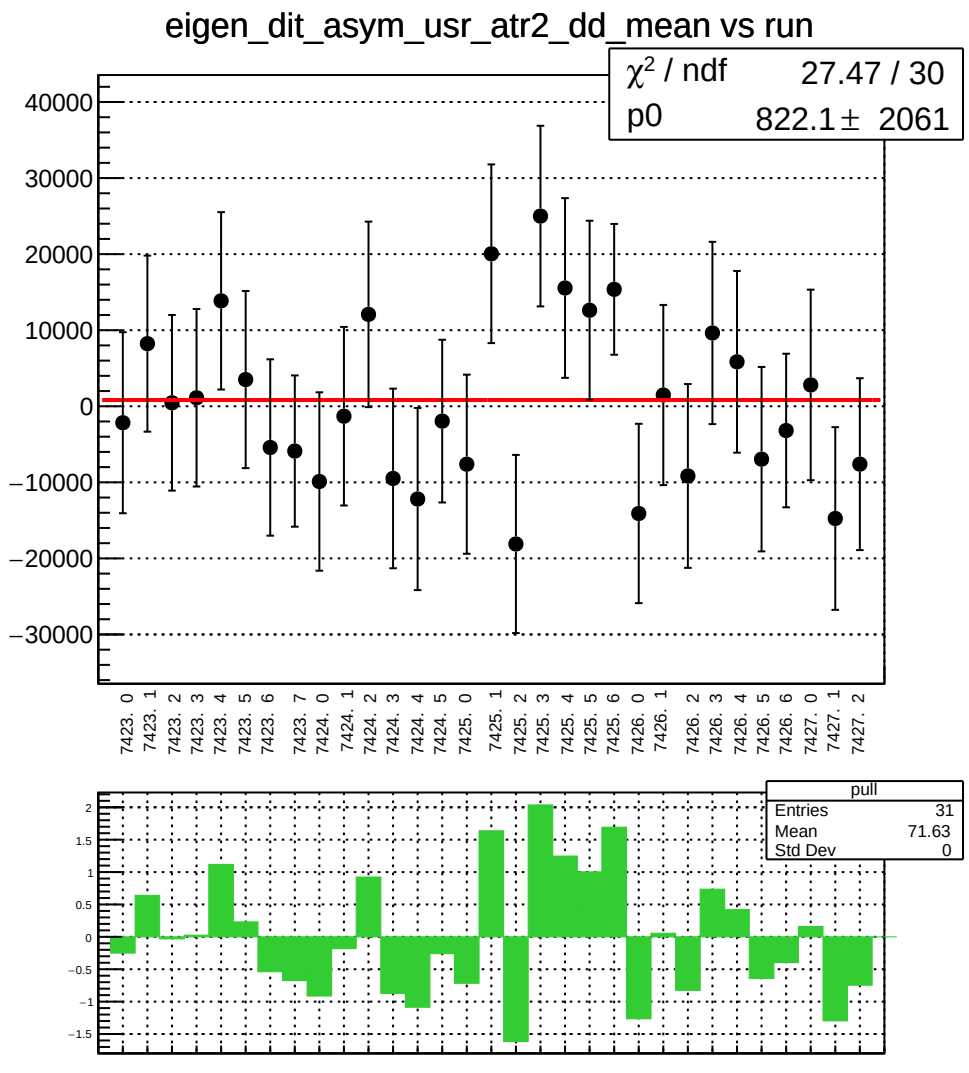

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 27.47 / 30
p0 822.1 ± 2061
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 71.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

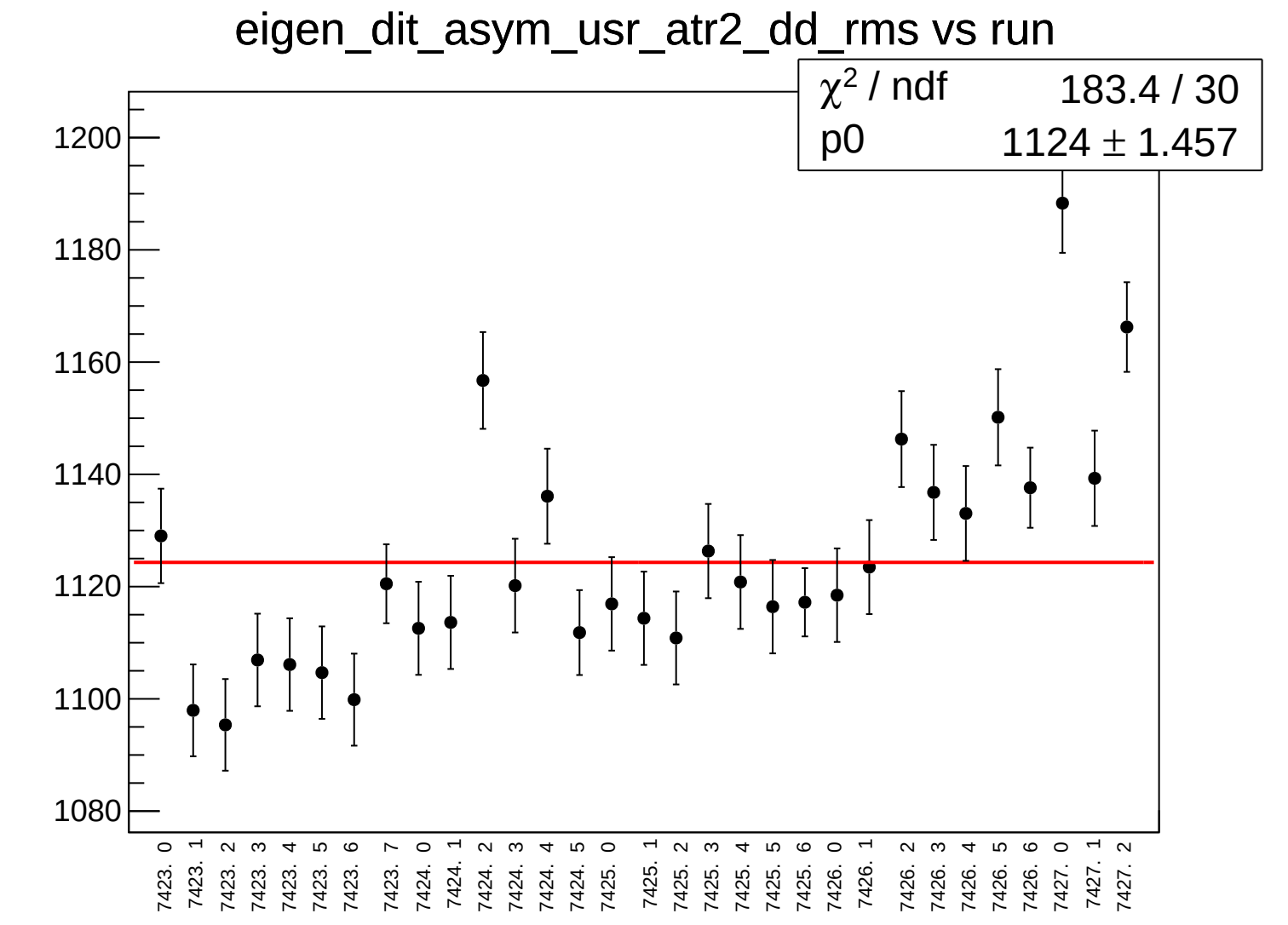

pull1D
Entries 31
Mean −0.01268
Std Dev 0.9413
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

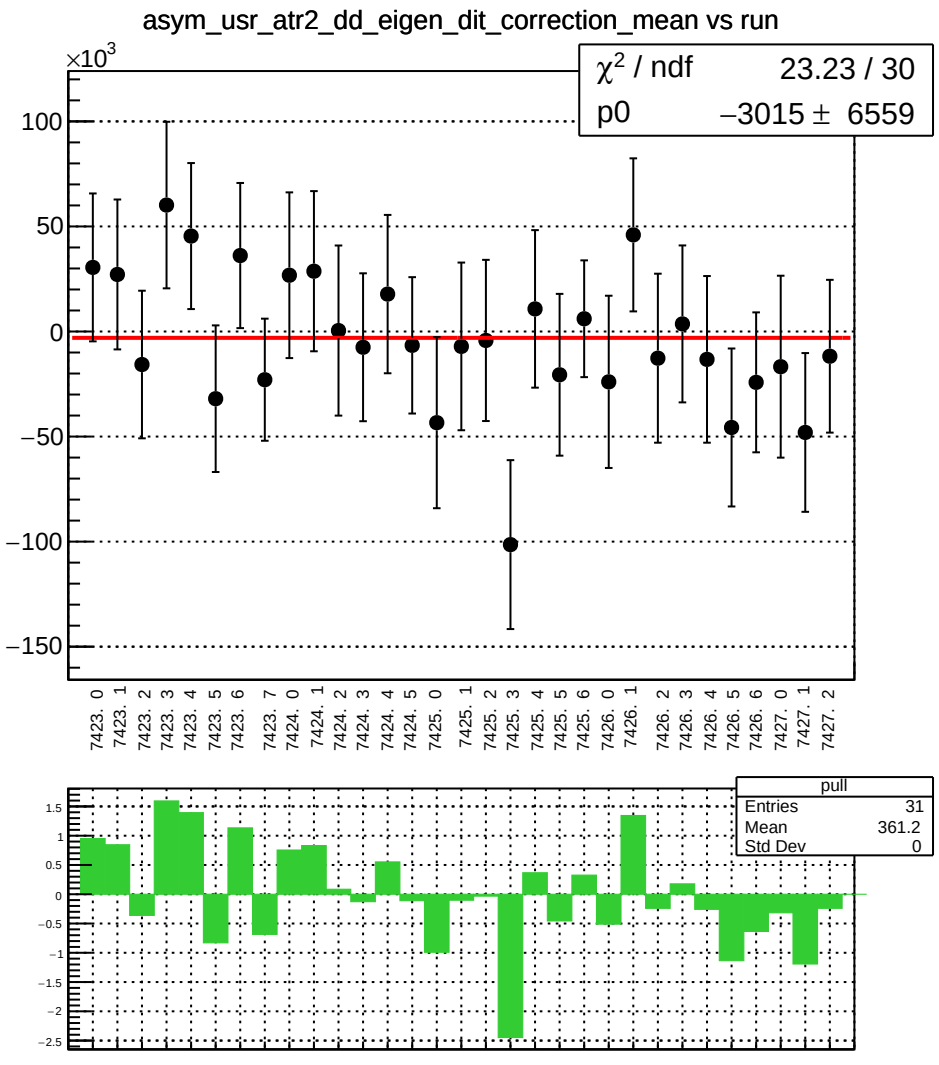

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 183.4 / 30
p0 1124 ± 1.457
1200
1180
1160
1140
1120
1100
1080
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

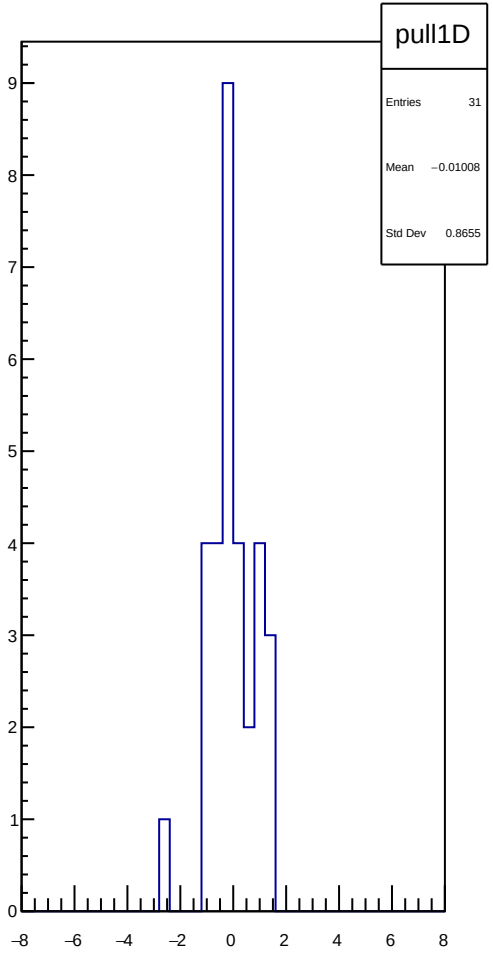

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 23.23 / 30
p0 −3015 ± 6559
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 361.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01008
Std Dev 0.8655
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

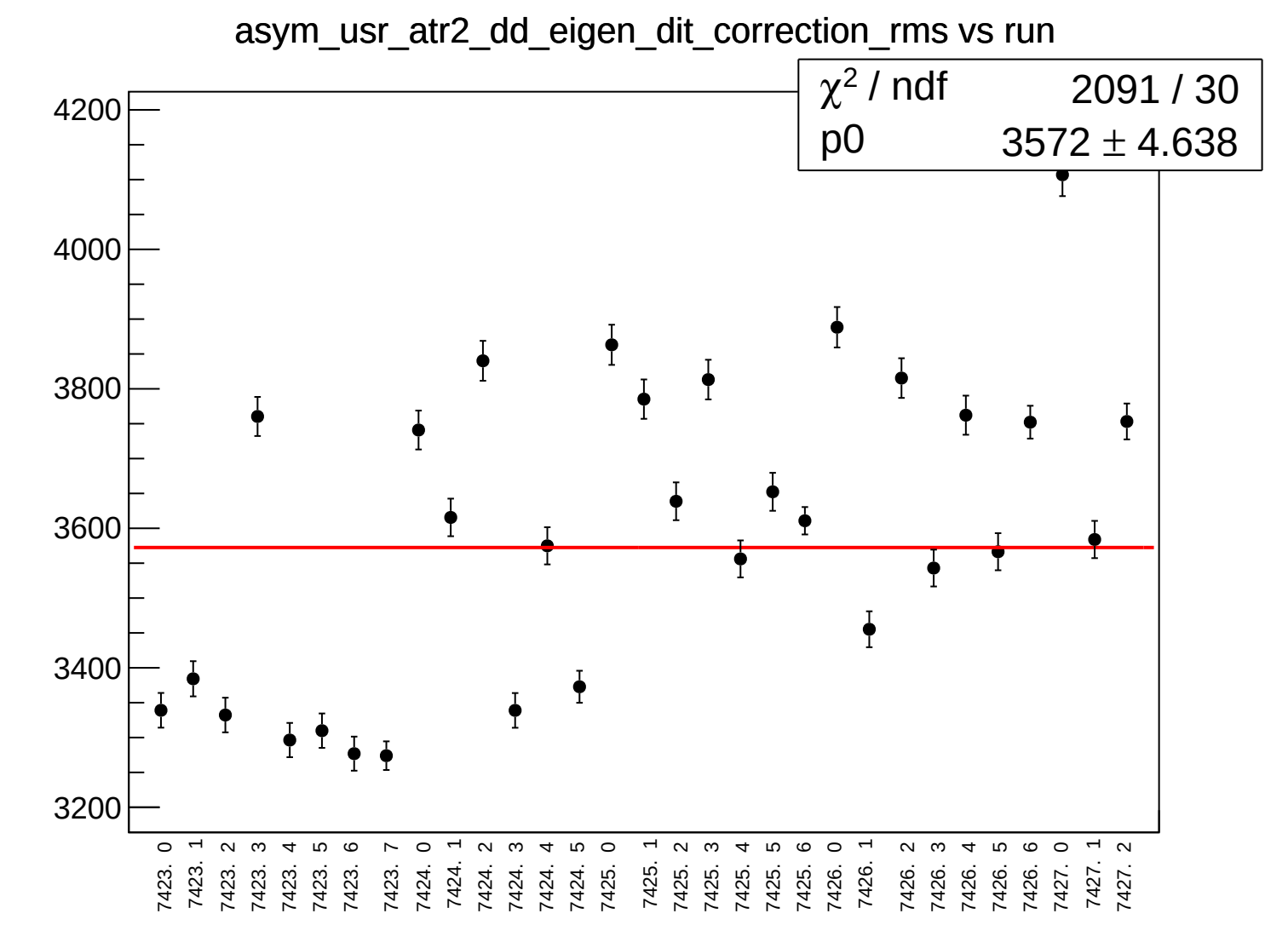

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 2091 / 30
p0 3572 ± 4.638
4200
4000
3800
3600
3400
3200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

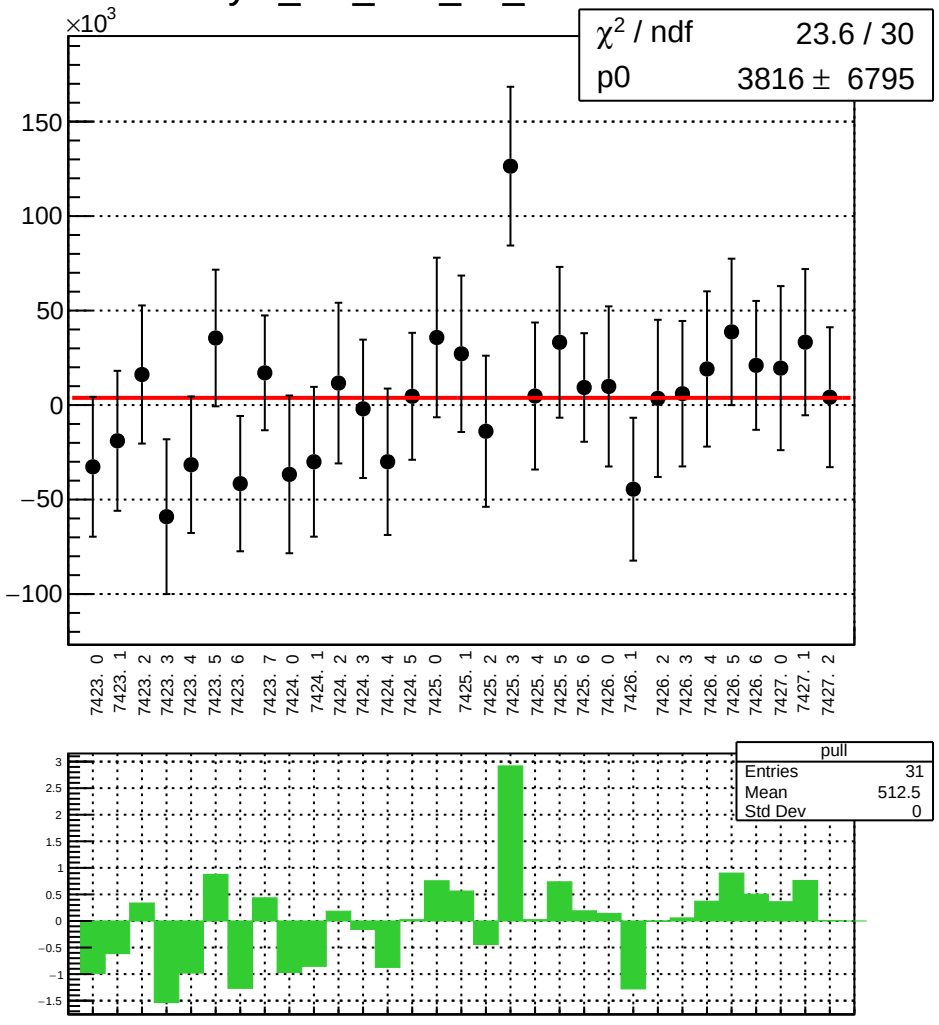

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 27.47 / 30
p0 822.1 ± 2061
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 71.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01267
Std Dev 0.9413
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

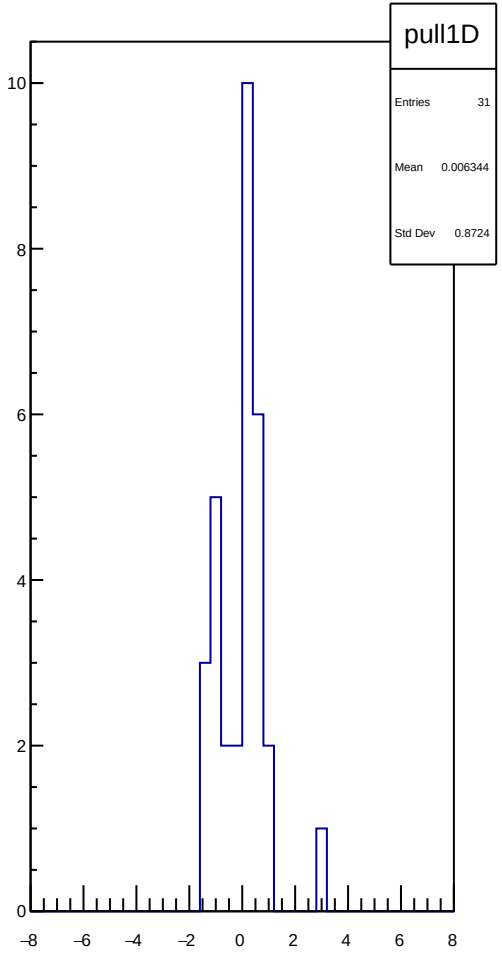

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 183.4 / 30
p0 1124 ± 1.457
1200
1180
1160
1140
1120
1100
1080
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

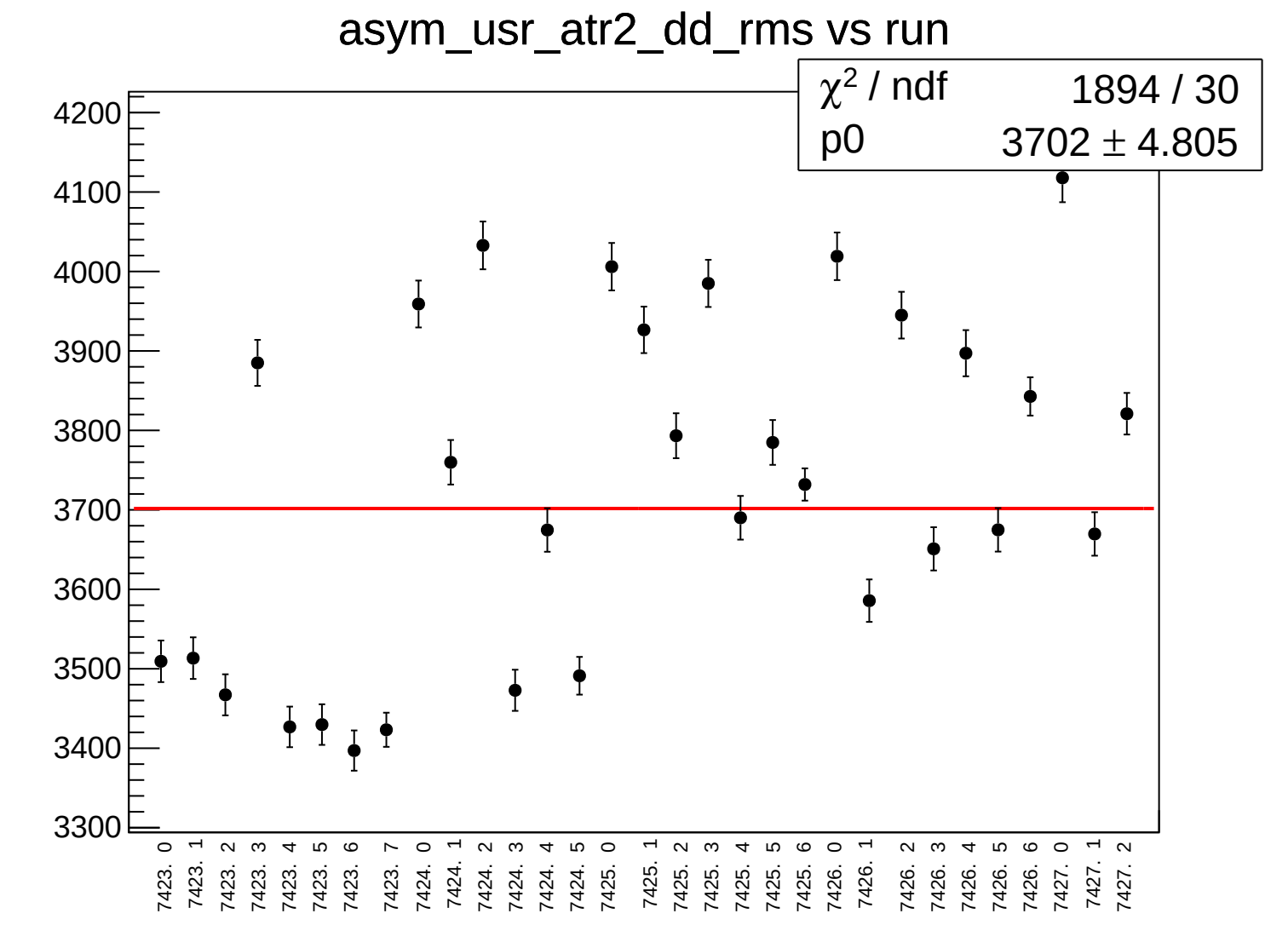

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 23.23 / 30
p0 −3015 ± 6559
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 361.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

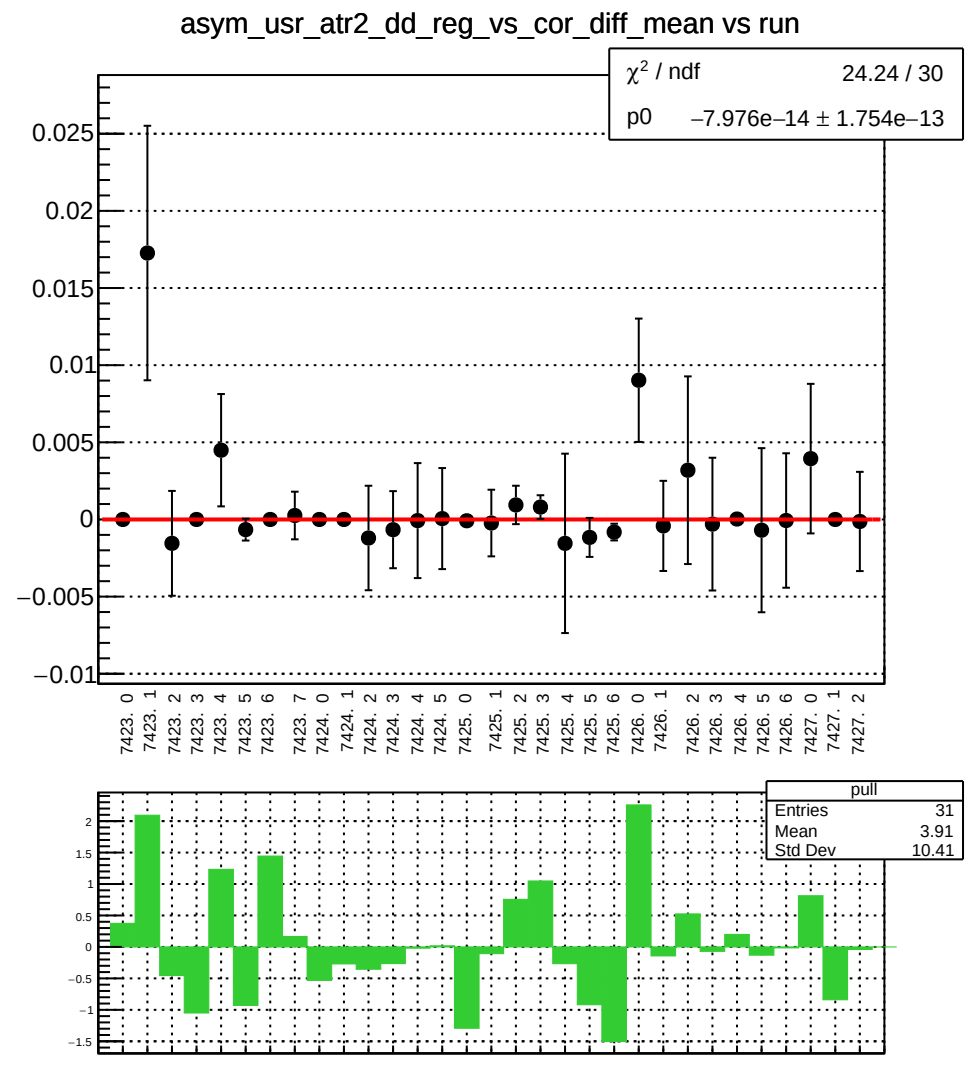

pull1D
Entries 31
Mean −0.01008
Std Dev 0.8655
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

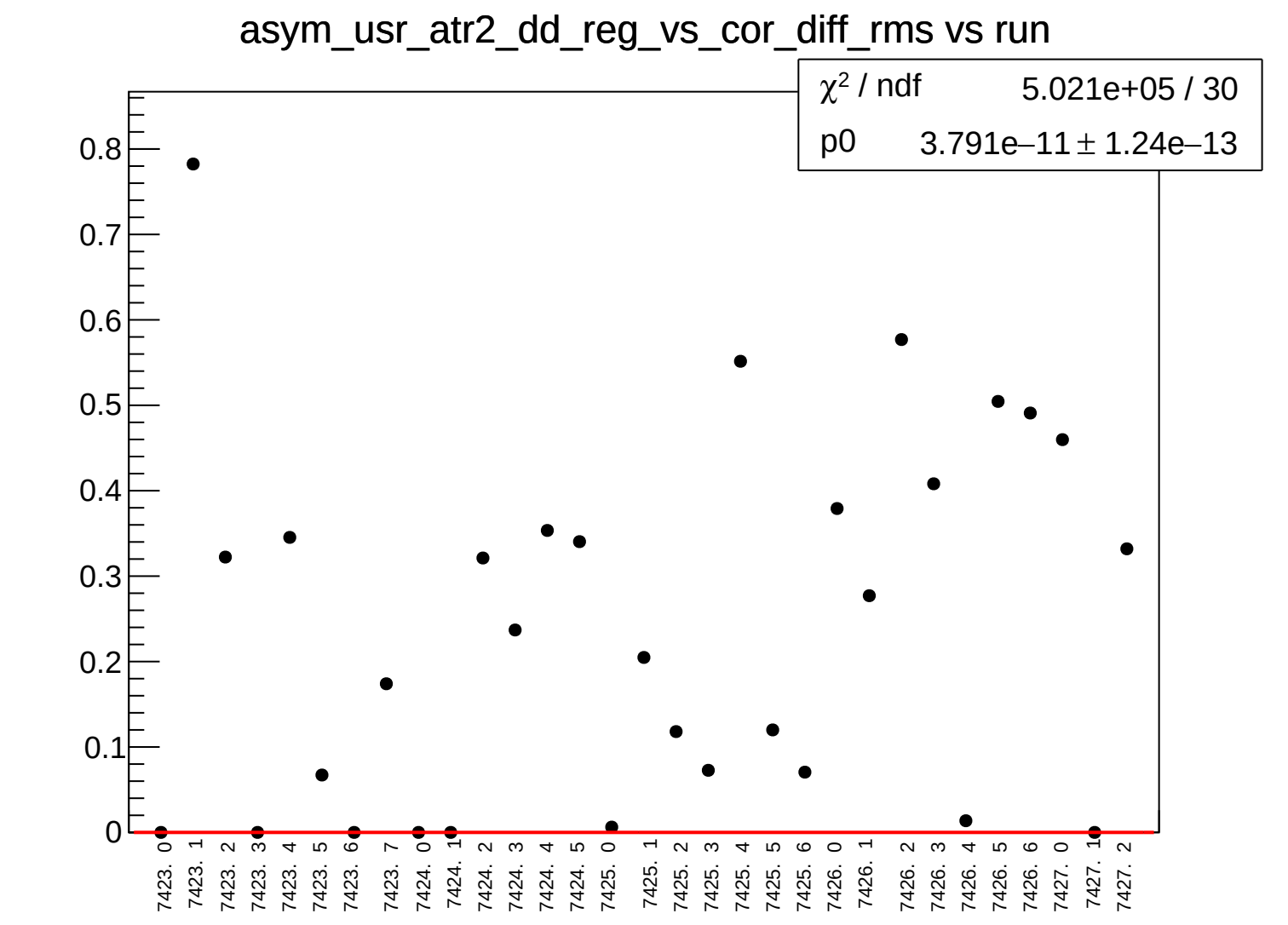

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2091 / 30
p0 3572 ± 4.638
4200
4000
3800
3600
3400
3200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

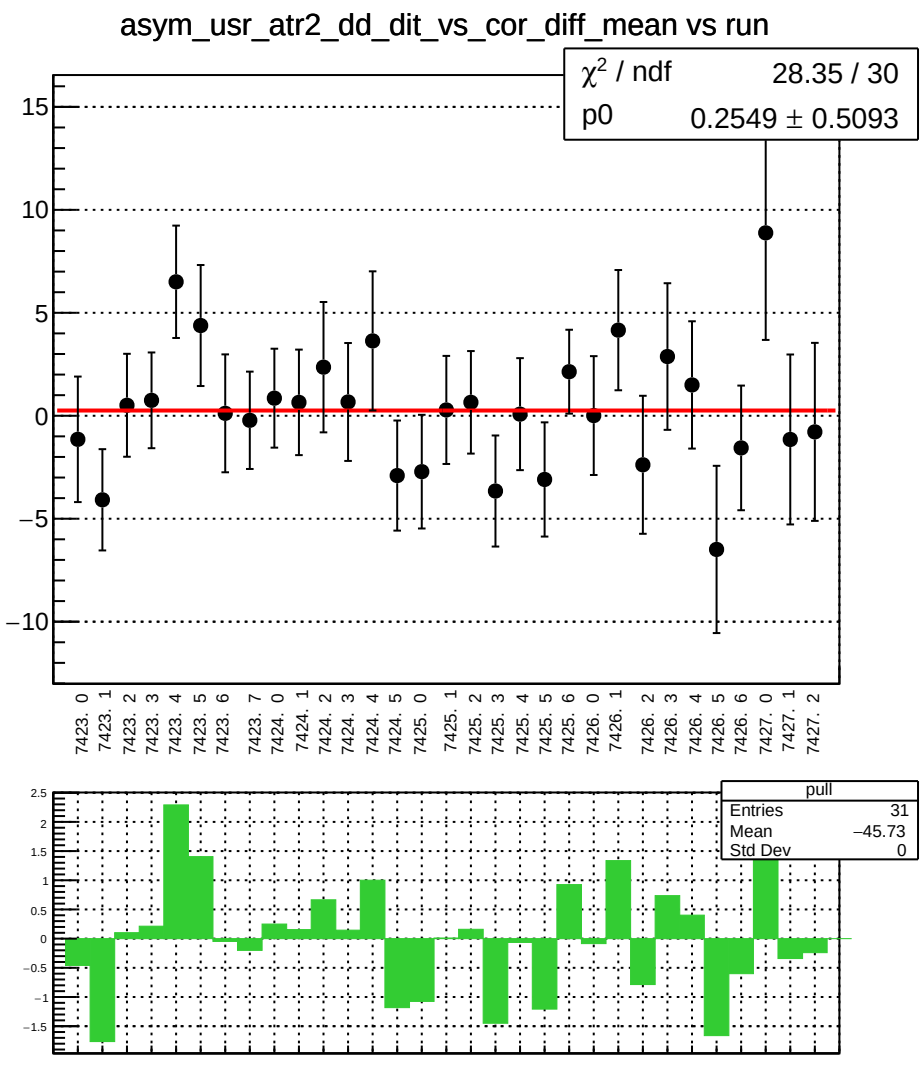

asym_usr_atr2_dd_mean vs run
χ² / ndf 23.6 / 30
p0 3816 ± 6795
×10³
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 512.5
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

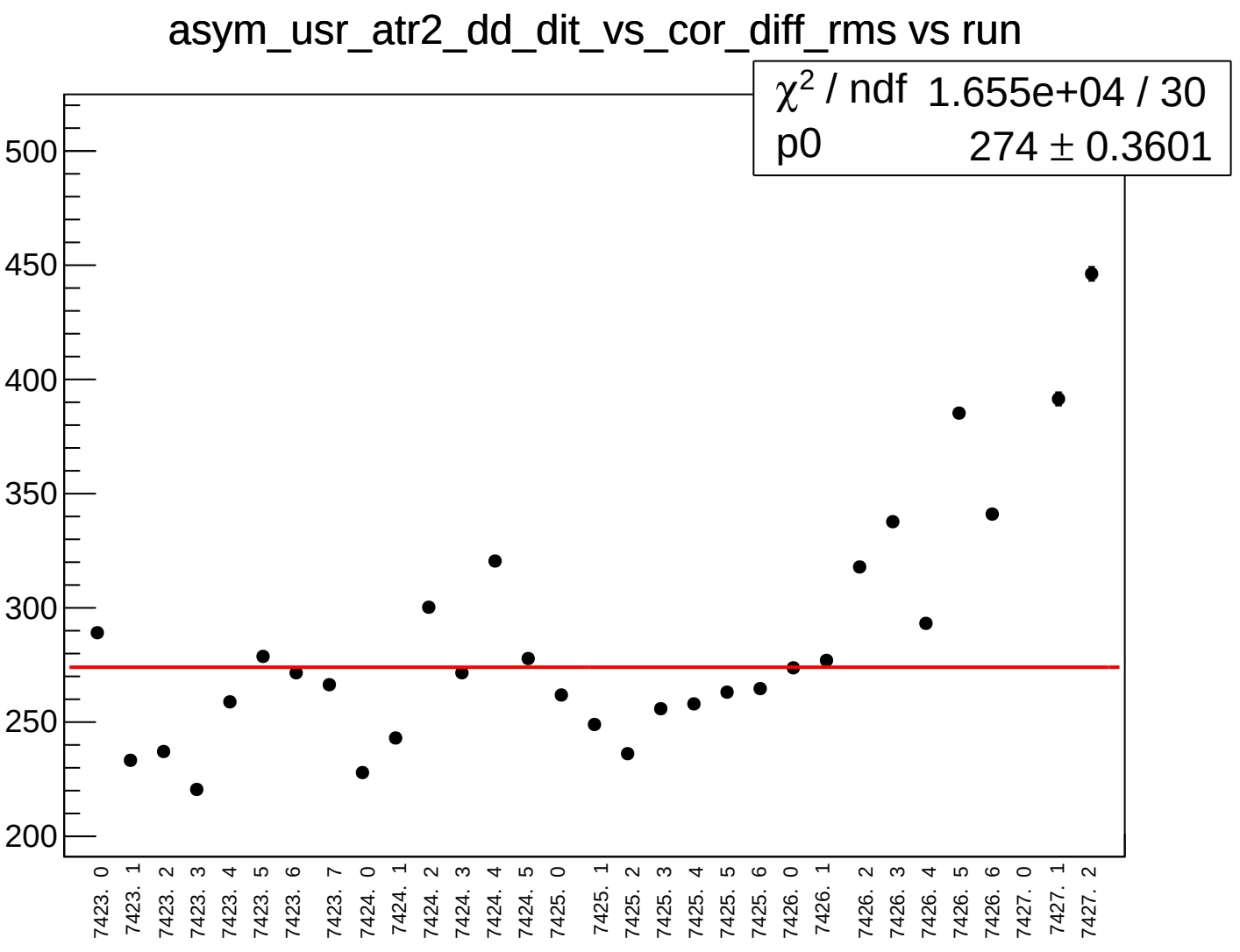

pull1D
Entries 31
Mean 0.006344
Std Dev 0.8724
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

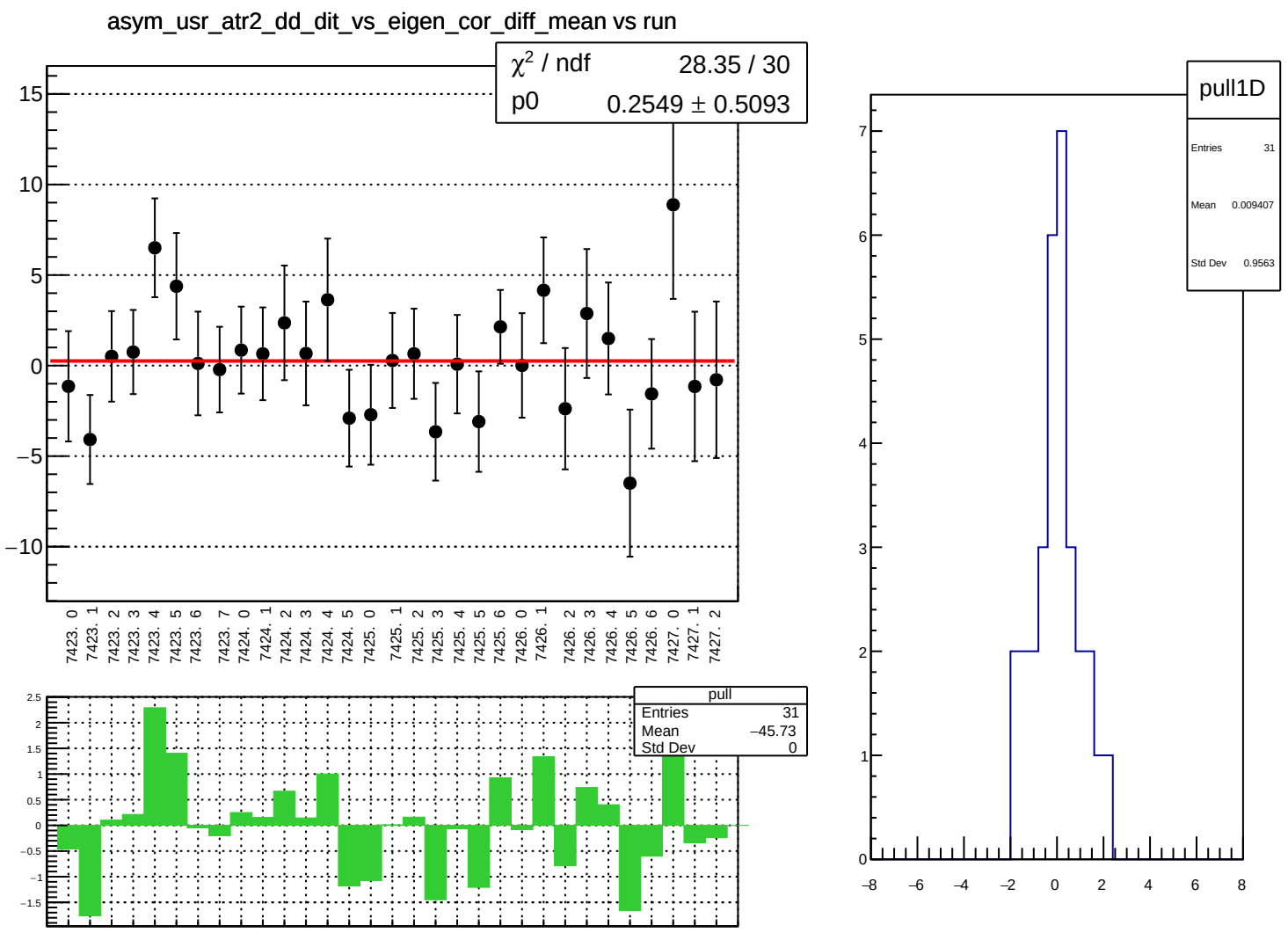

asym_usr_atr2_dd_rms vs run
χ² / ndf 1894 / 30
p0 3702 ± 4.805
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

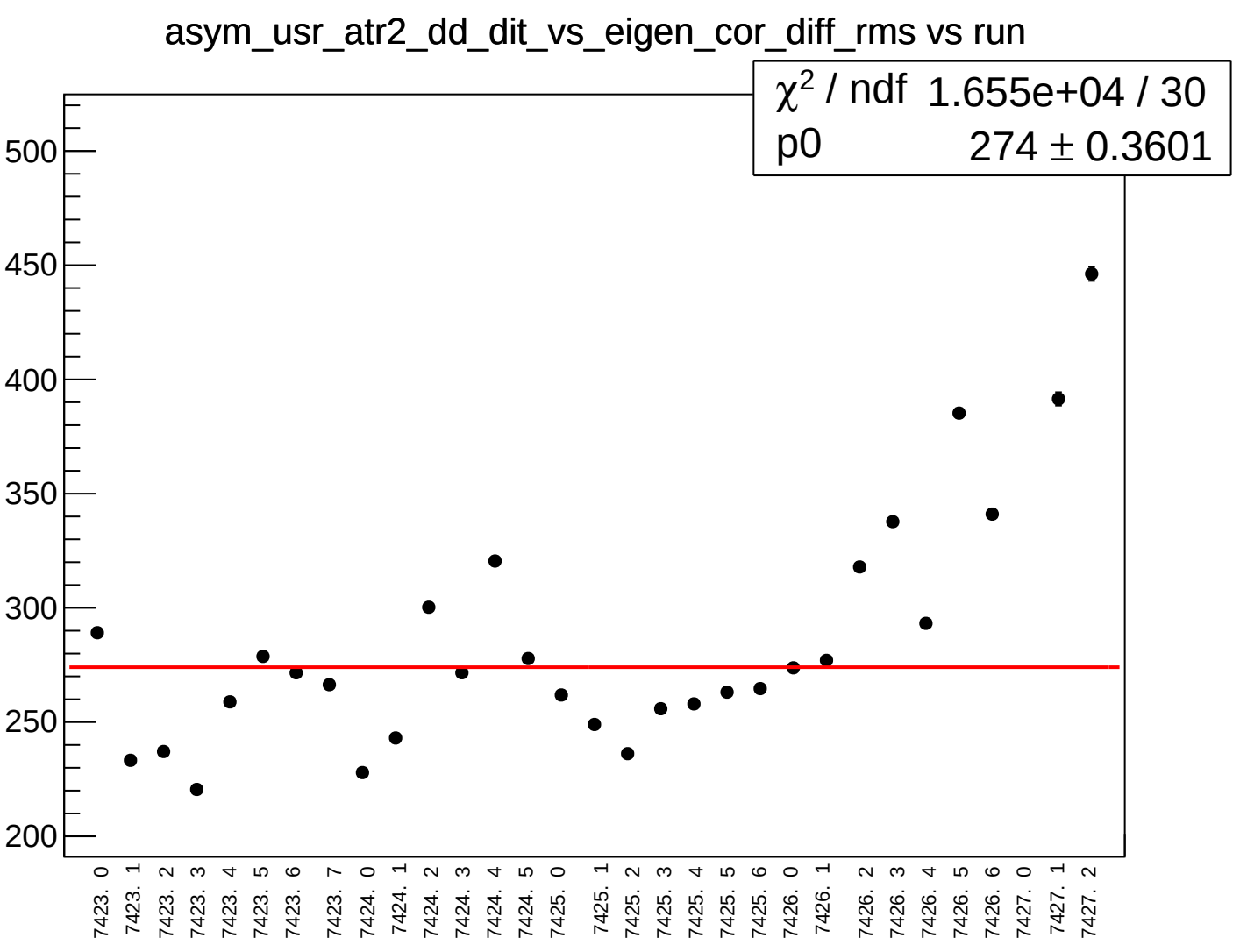

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.24 / 30
p0 −7.976e−14 ± 1.754e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 3.91
Std Dev 10.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.05556
Std Dev 0.8825
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

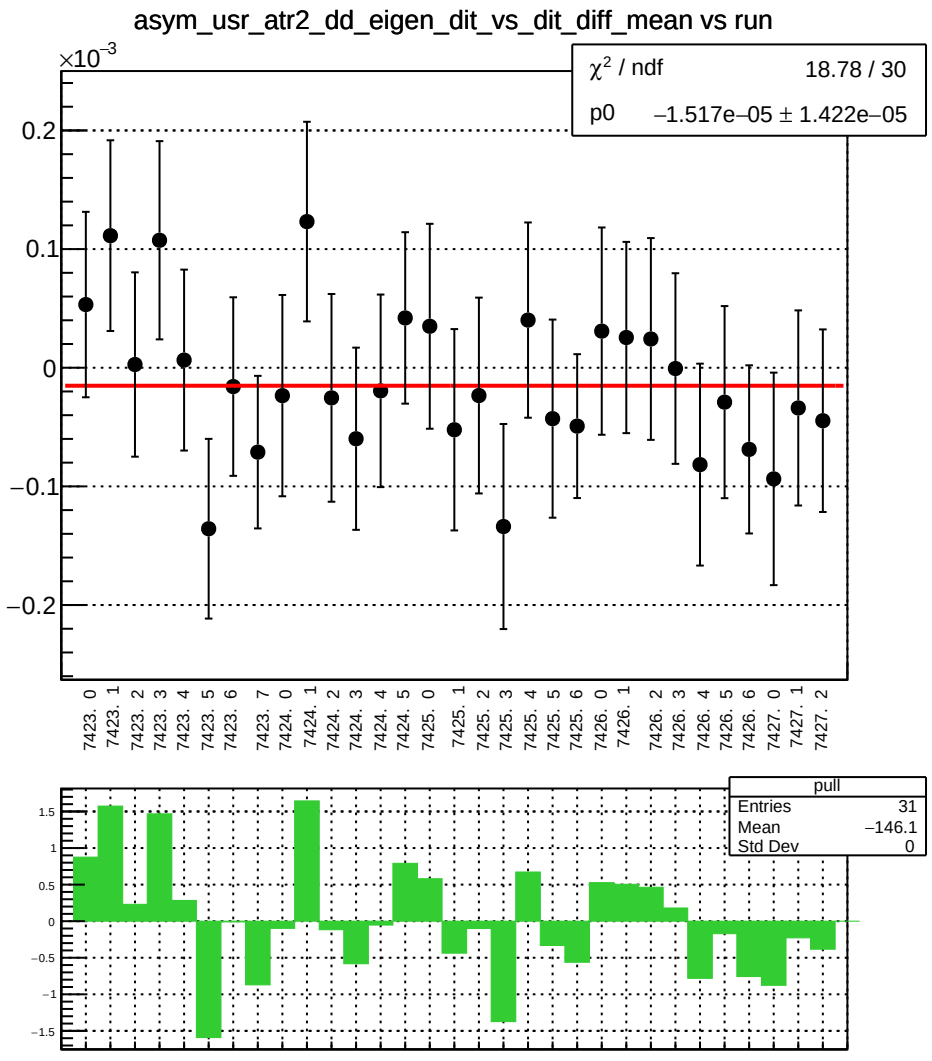

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.021e+05 / 30
p0 3.791e−11 ± 1.24e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

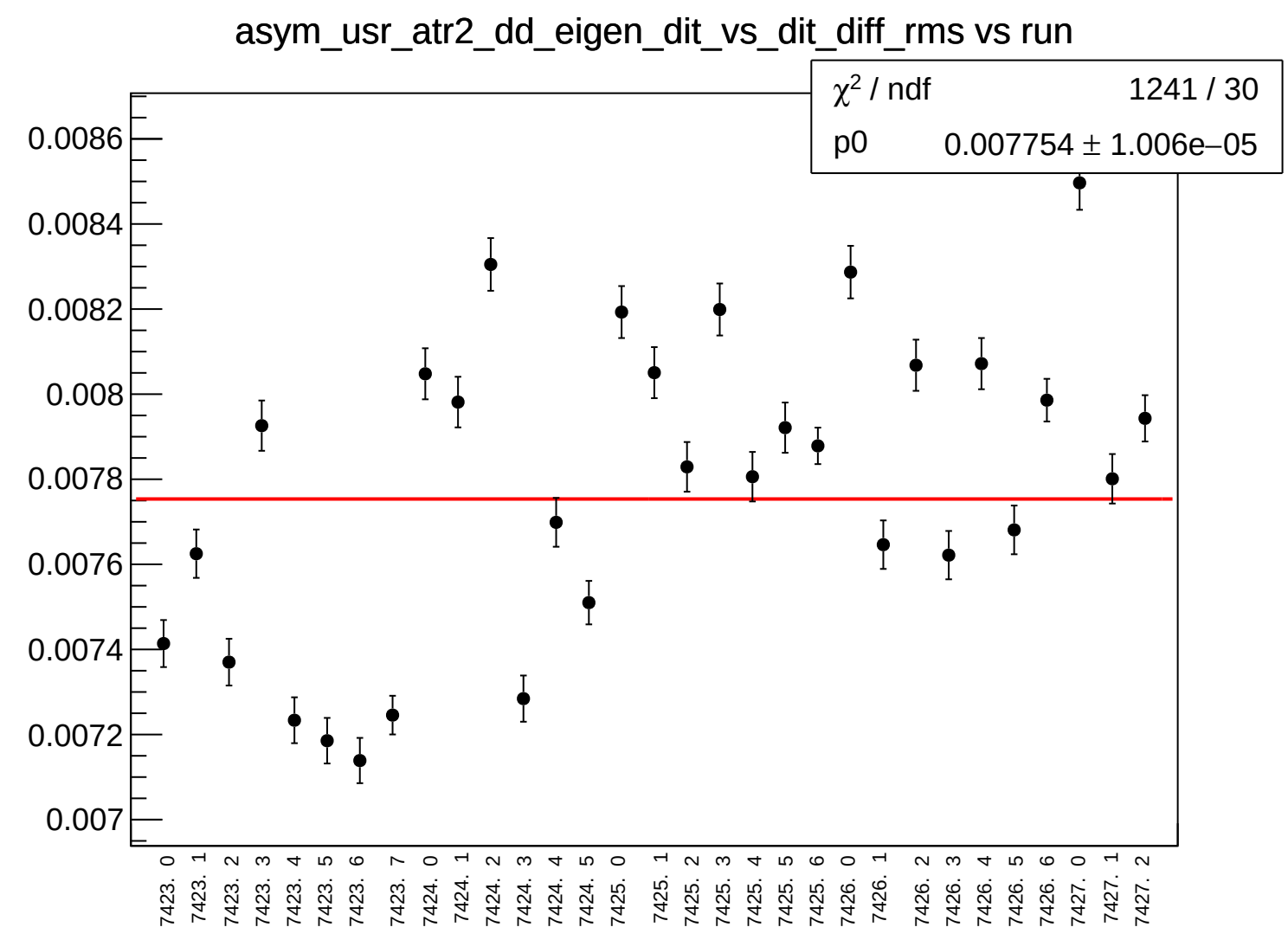

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 28.35 / 30
p0 0.2549 ± 0.5093
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −45.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.009407
Std Dev 0.9563
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

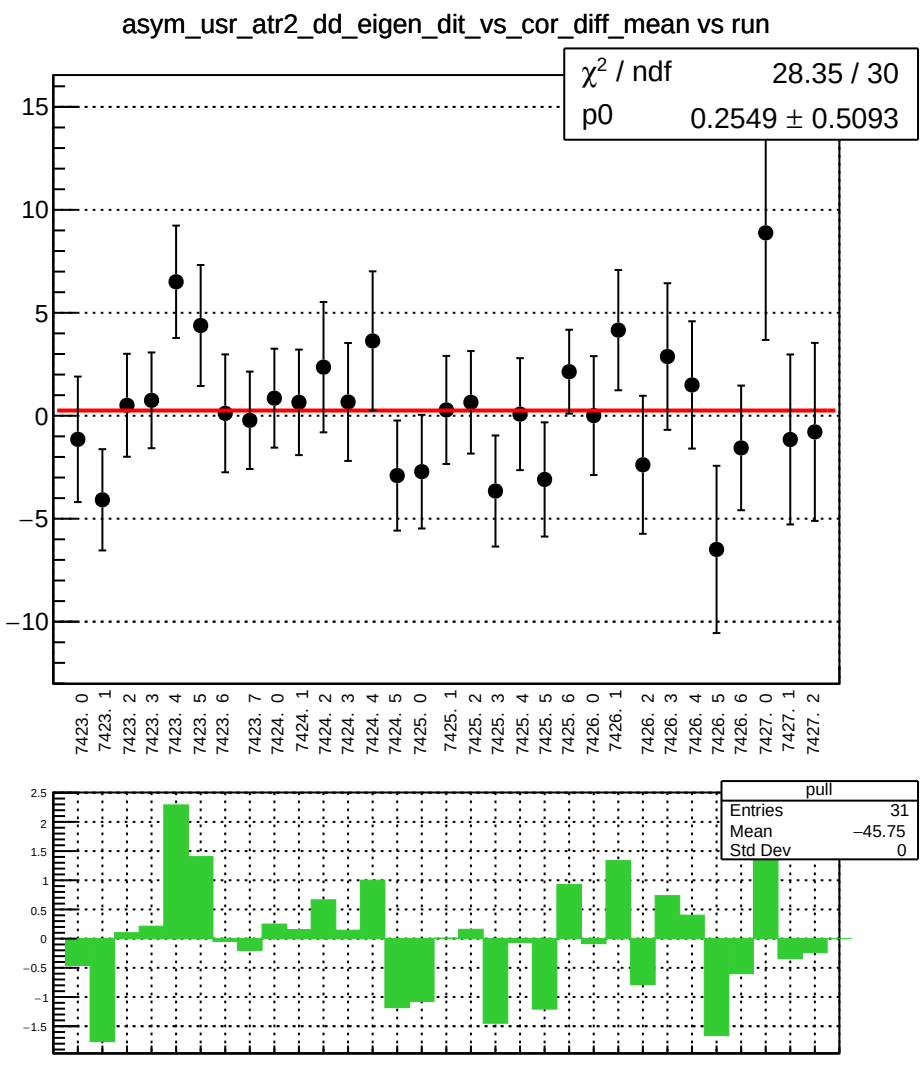

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.655e+04 / 30
p0 274 ± 0.3601
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

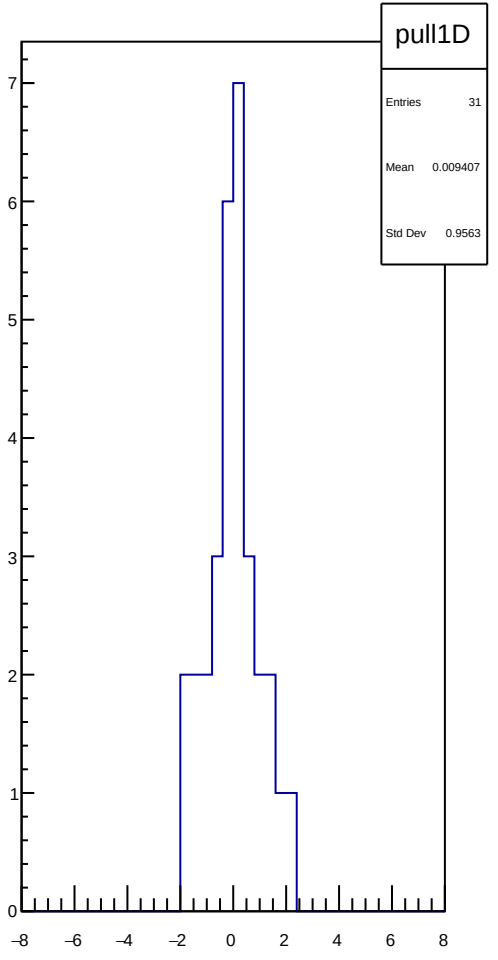

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.35 / 30
p0 0.2549 ± 0.5093
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −45.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.009407
Std Dev 0.9563
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

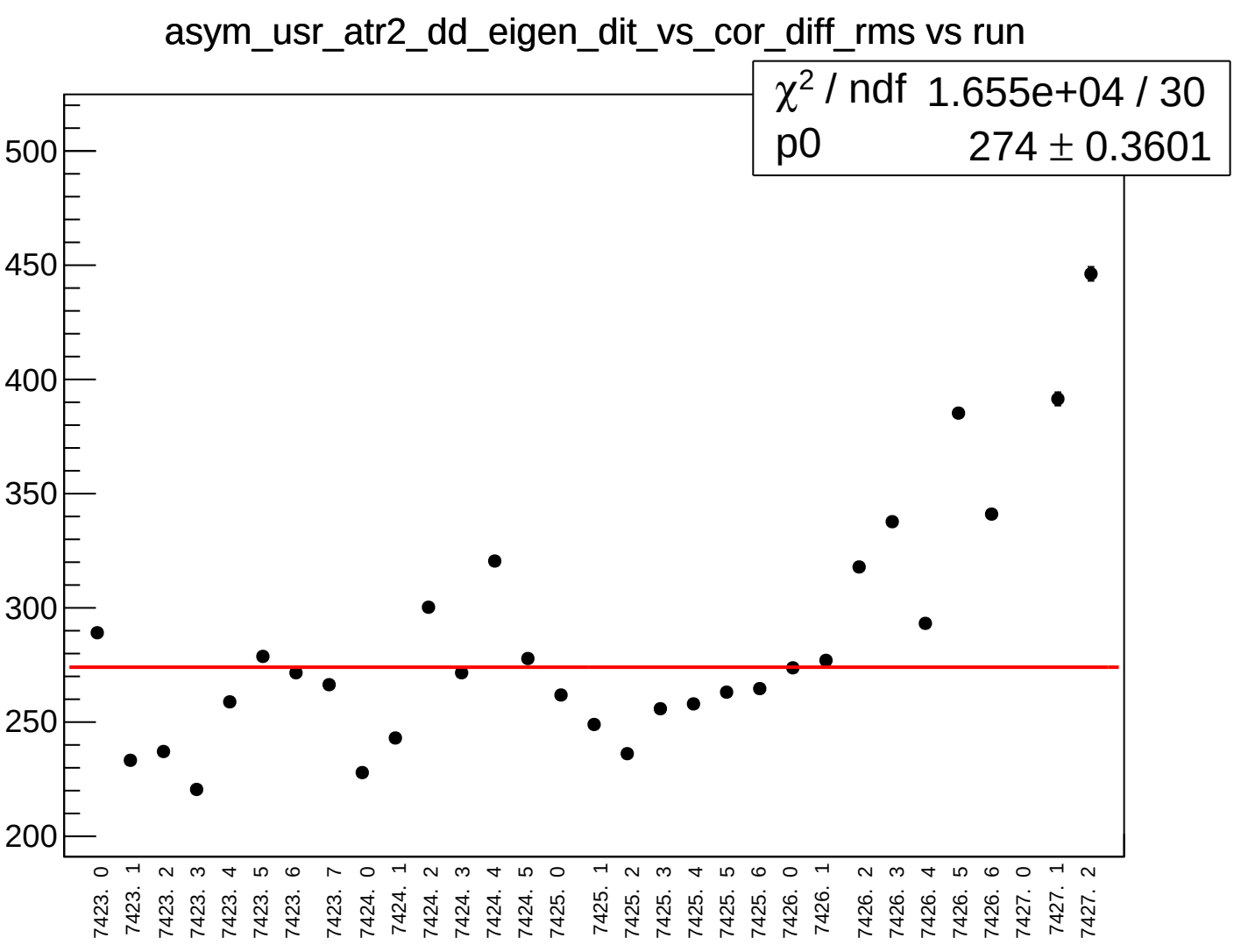

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.655e+04 / 30
p0 274 ± 0.3601
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

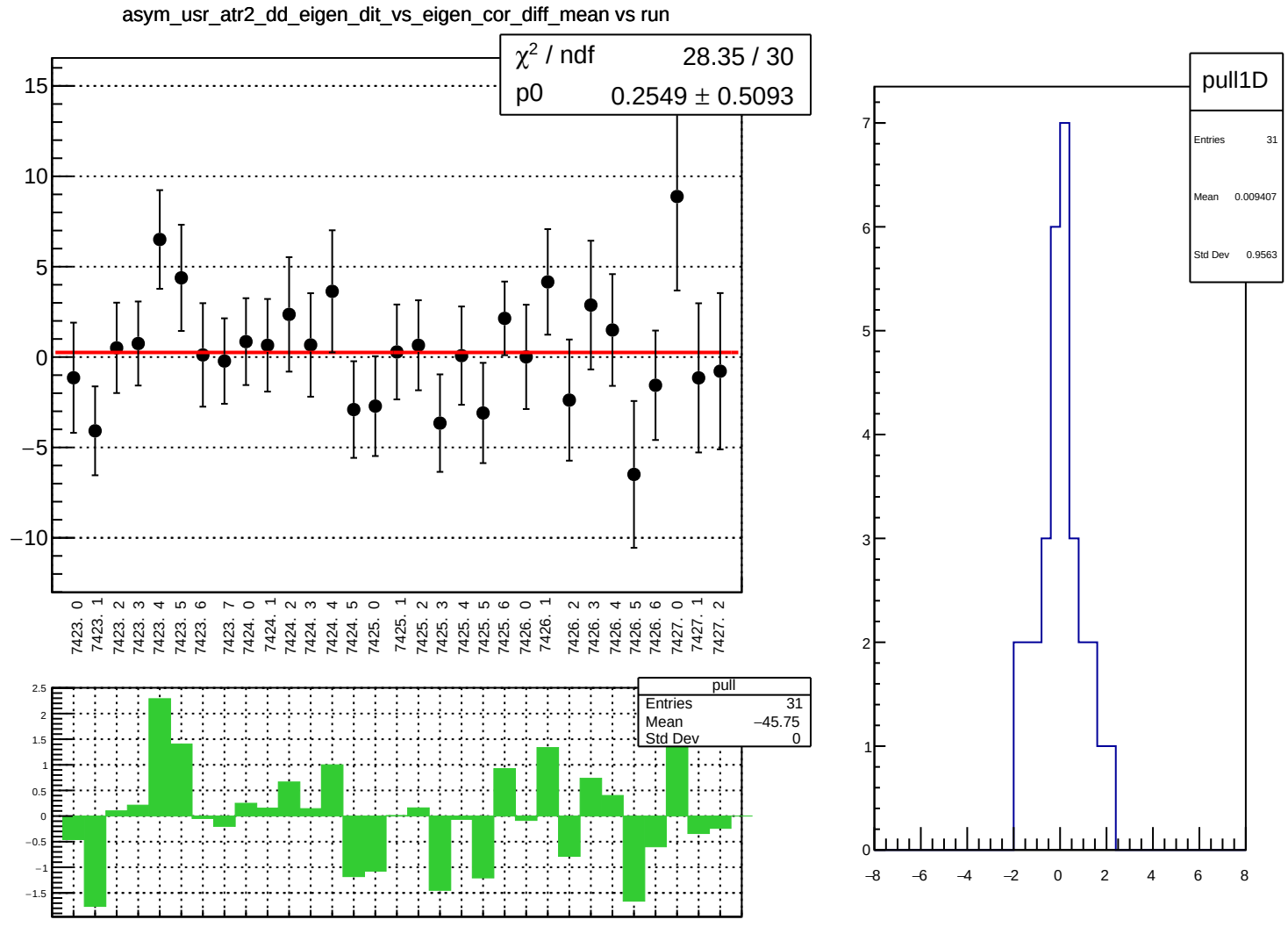

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.78 / 30
p0 −1.517e−05 ± 1.422e−05
0.2
0.1
0
−0.1
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −146.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01522
Std Dev 0.7781
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

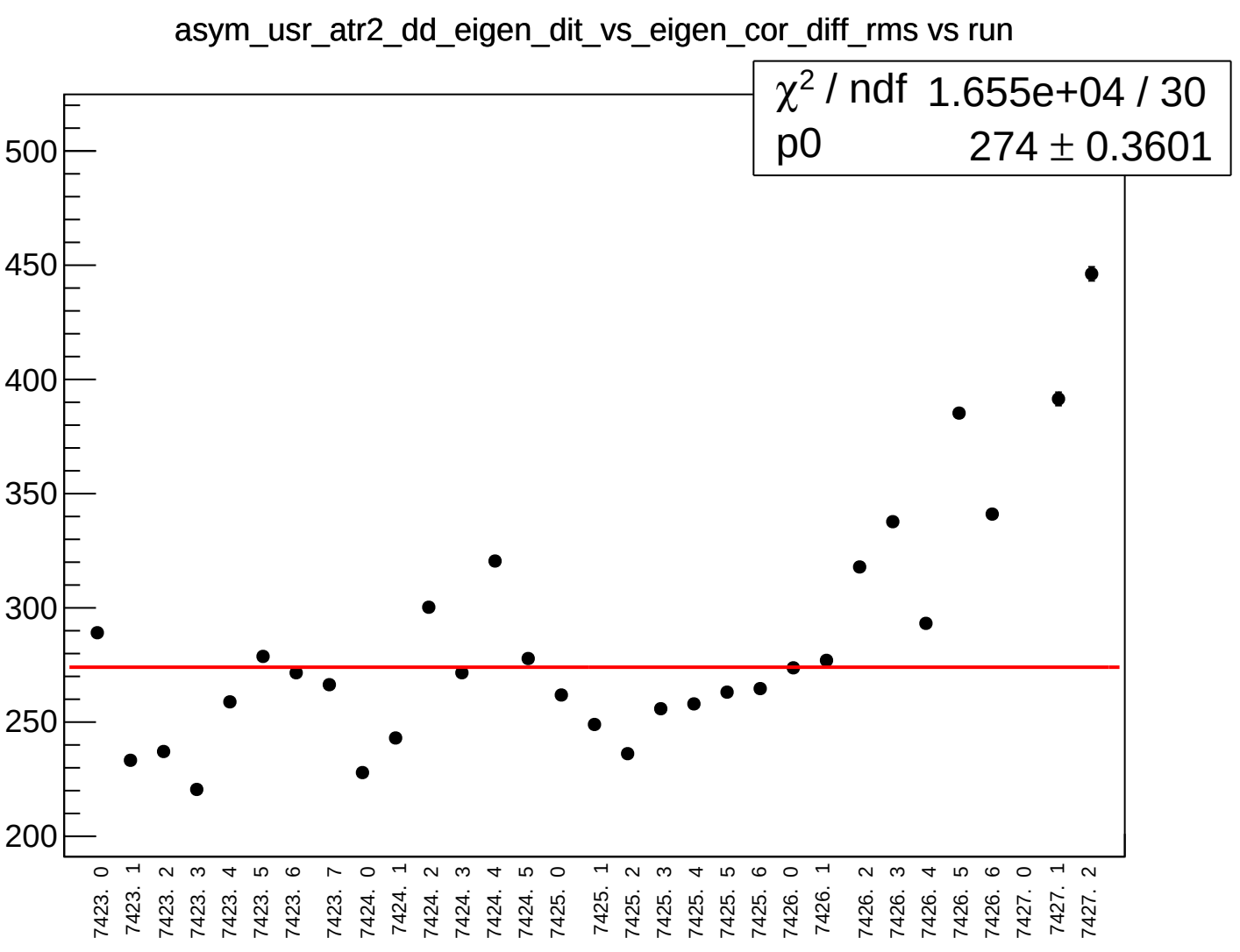

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1241 / 30
p0 0.007754 ± 1.006e−05
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

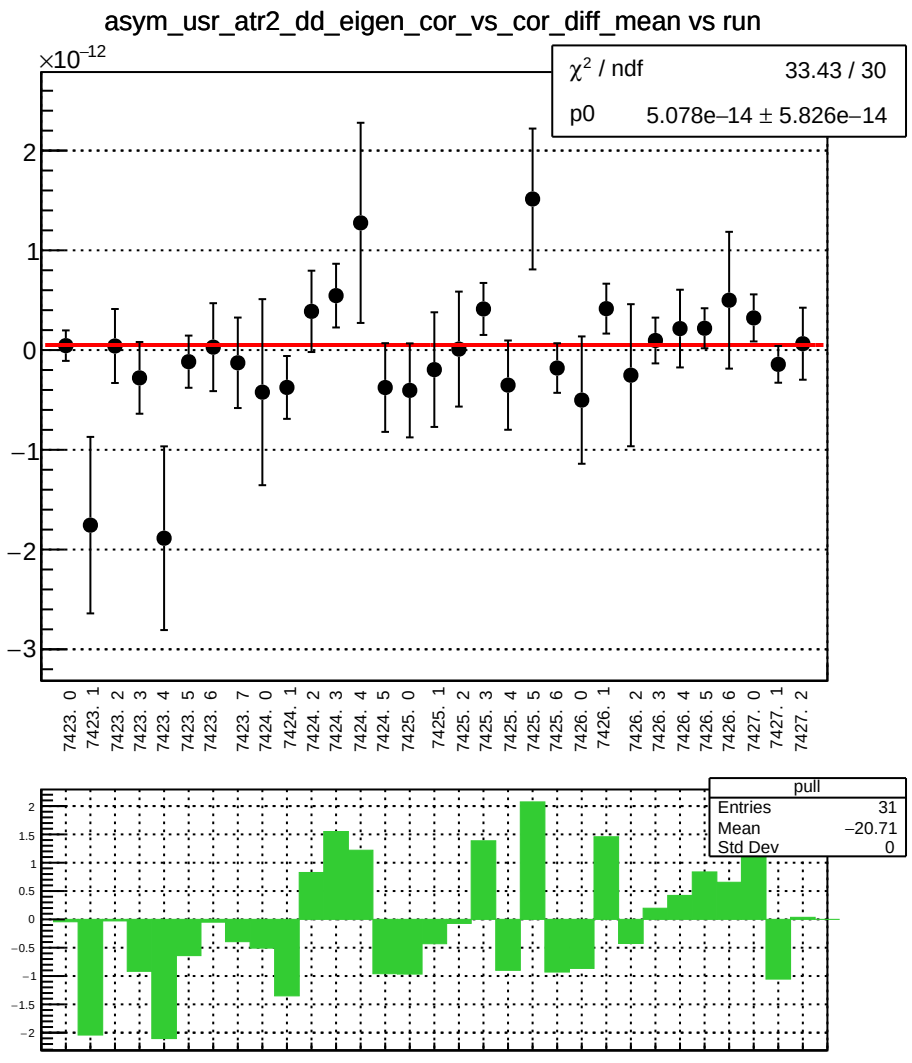

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.35 / 30
p0 0.2549 ± 0.5093
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −45.75
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

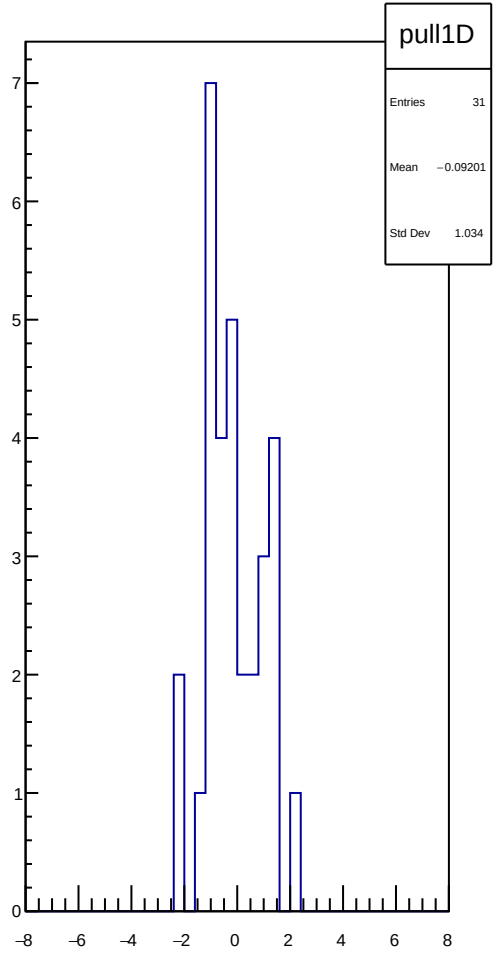

pull1D
Entries 31
Mean 0.009407
Std Dev 0.9563
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

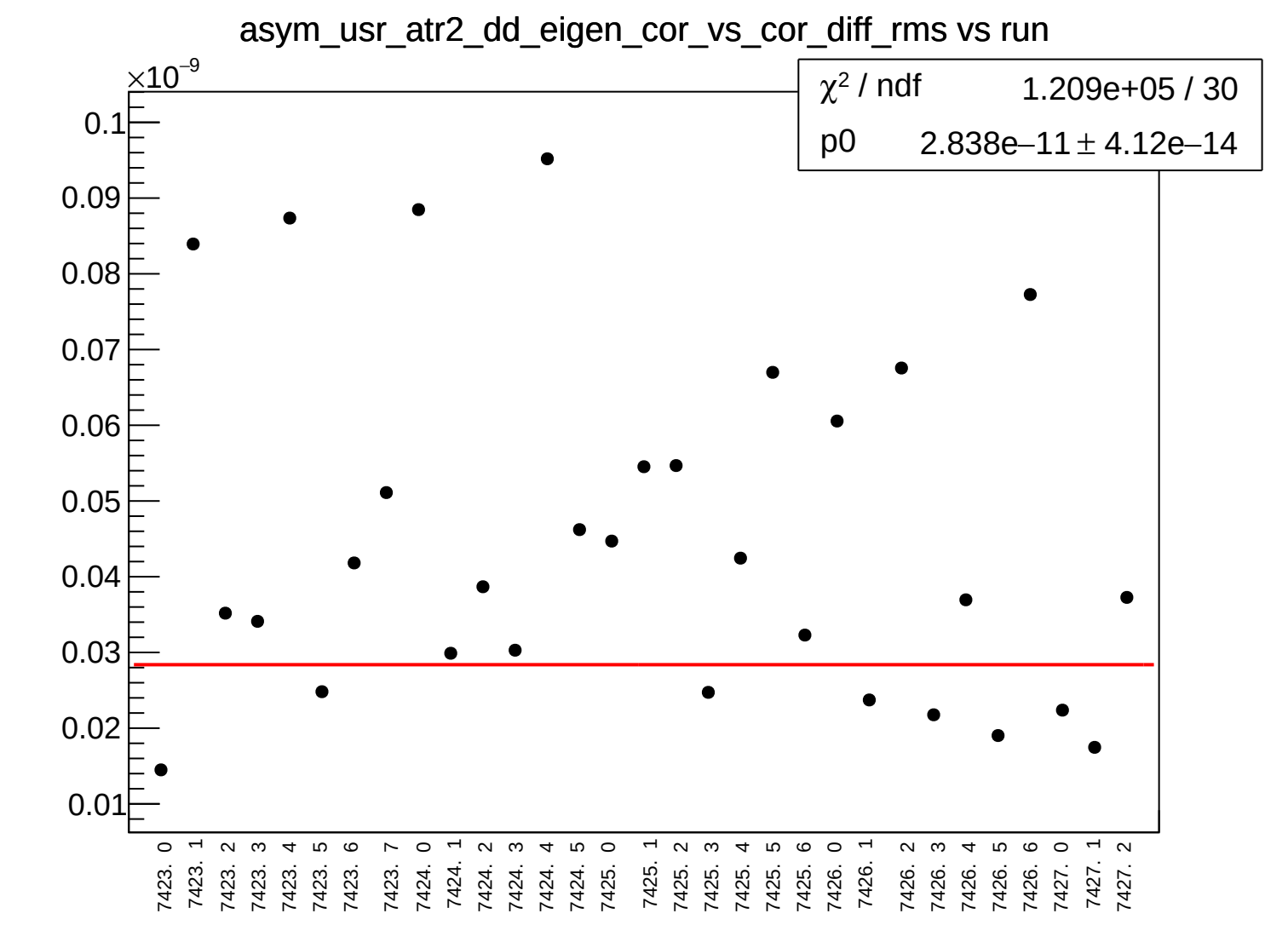

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.655e+04 / 30
p0 274 ± 0.3601
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

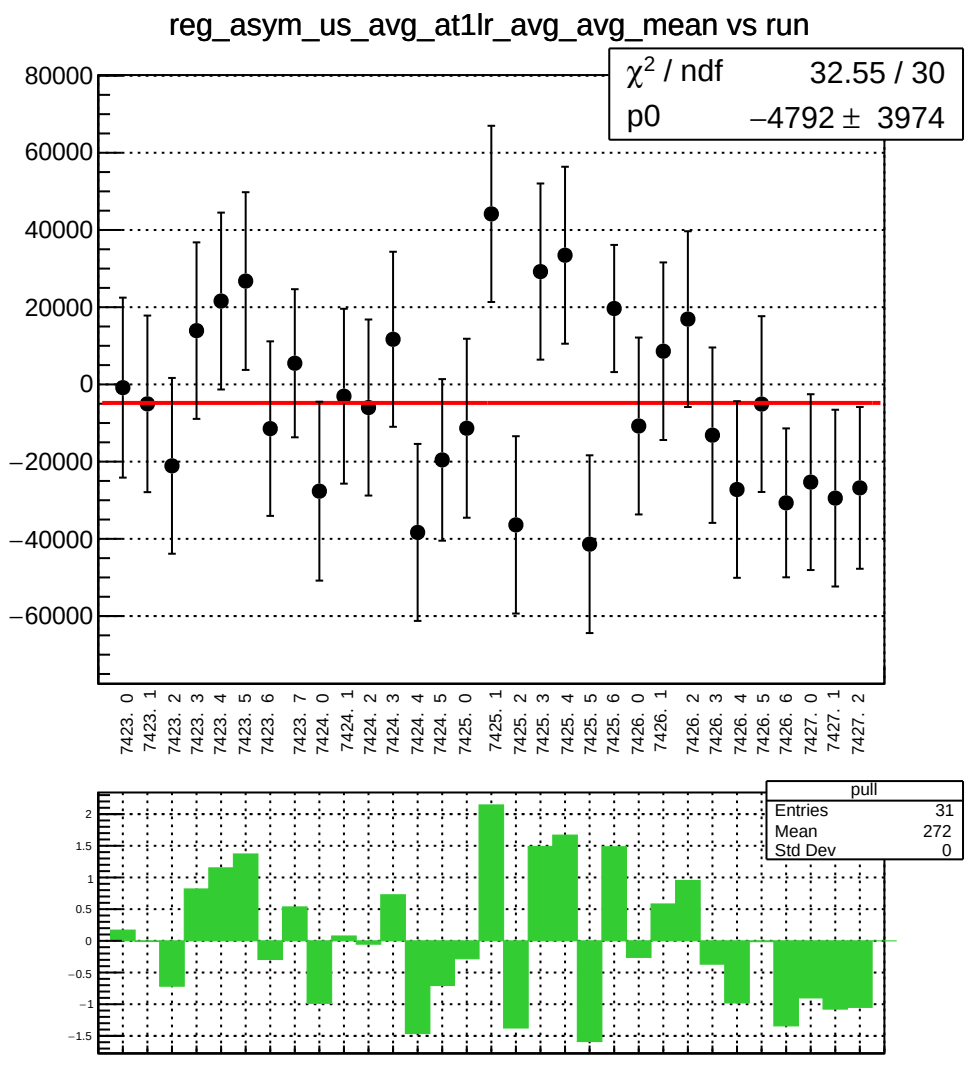

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.35 / 30
p0 0.2549 ± 0.5093
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −45.75
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.009407
Std Dev 0.9563
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

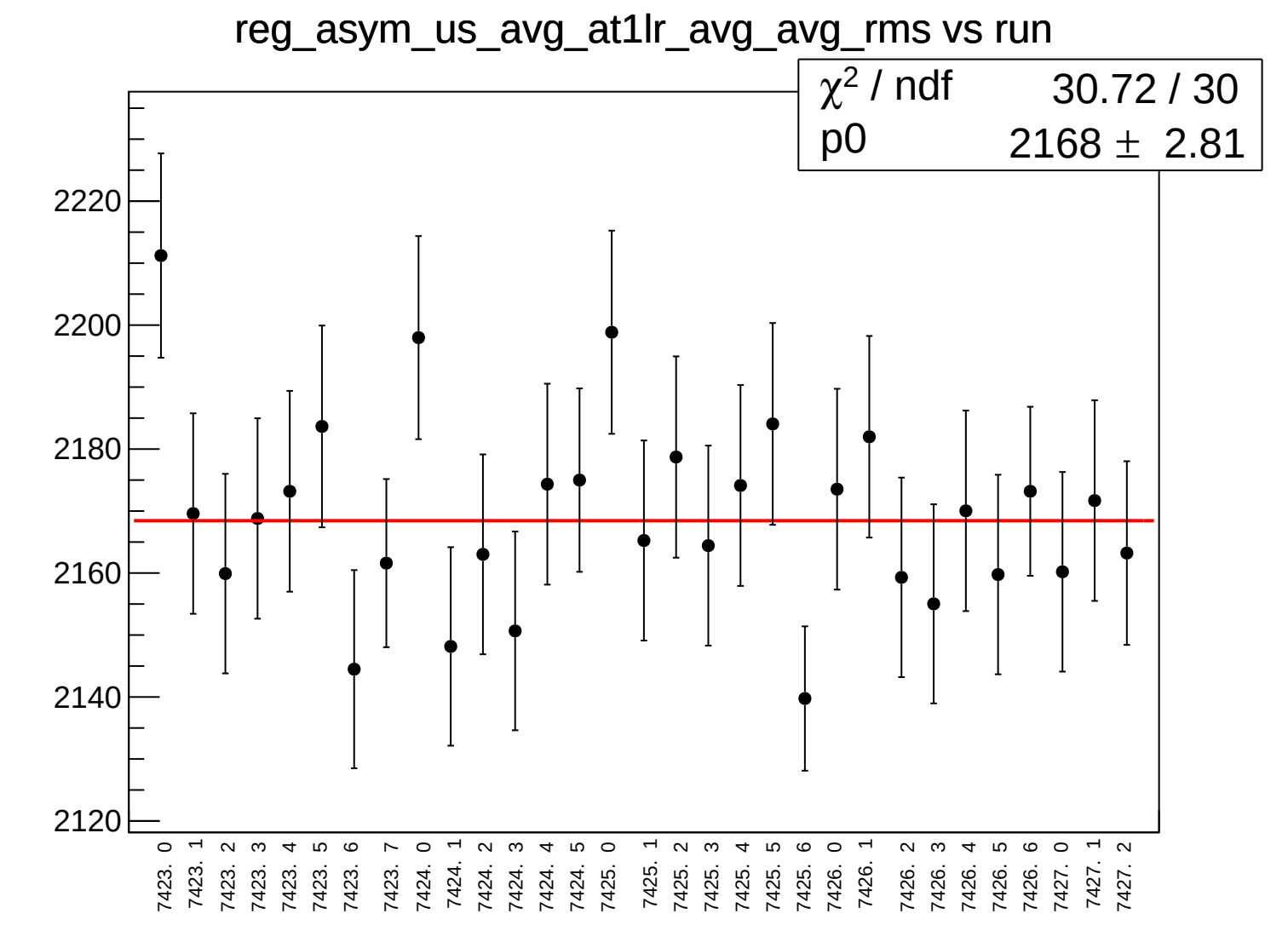

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.655e+04 / 30
p0 274 ± 0.3601
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

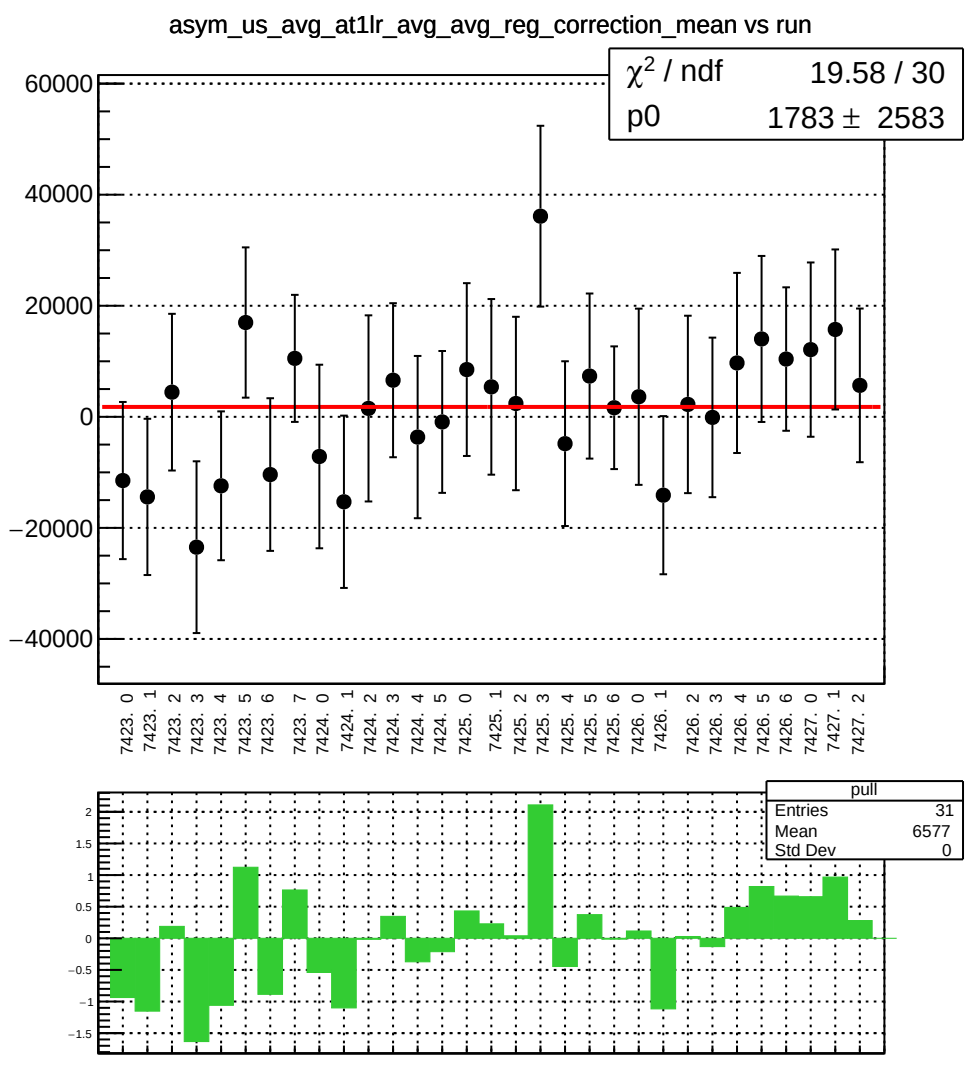

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.43 / 30
p0 5.078e−14 ± 5.826e−14
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −20.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

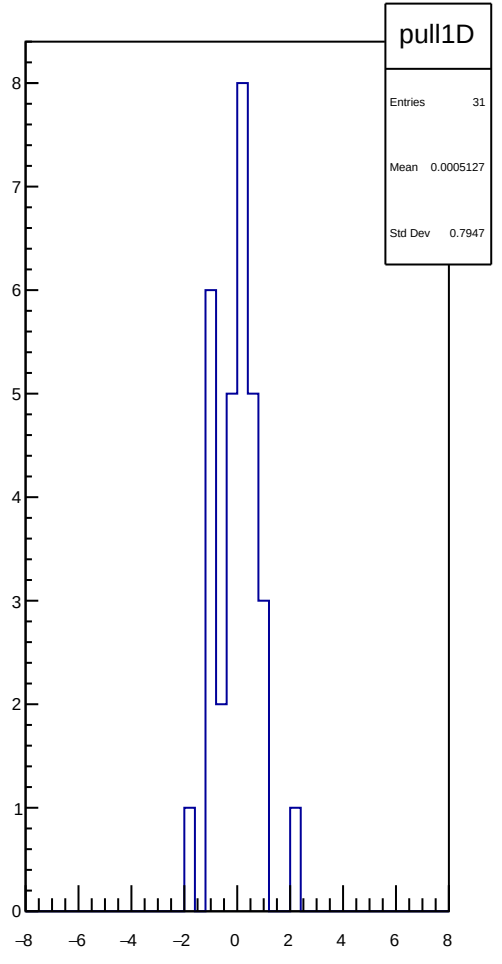

pull1D
Entries 31
Mean −0.09201
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

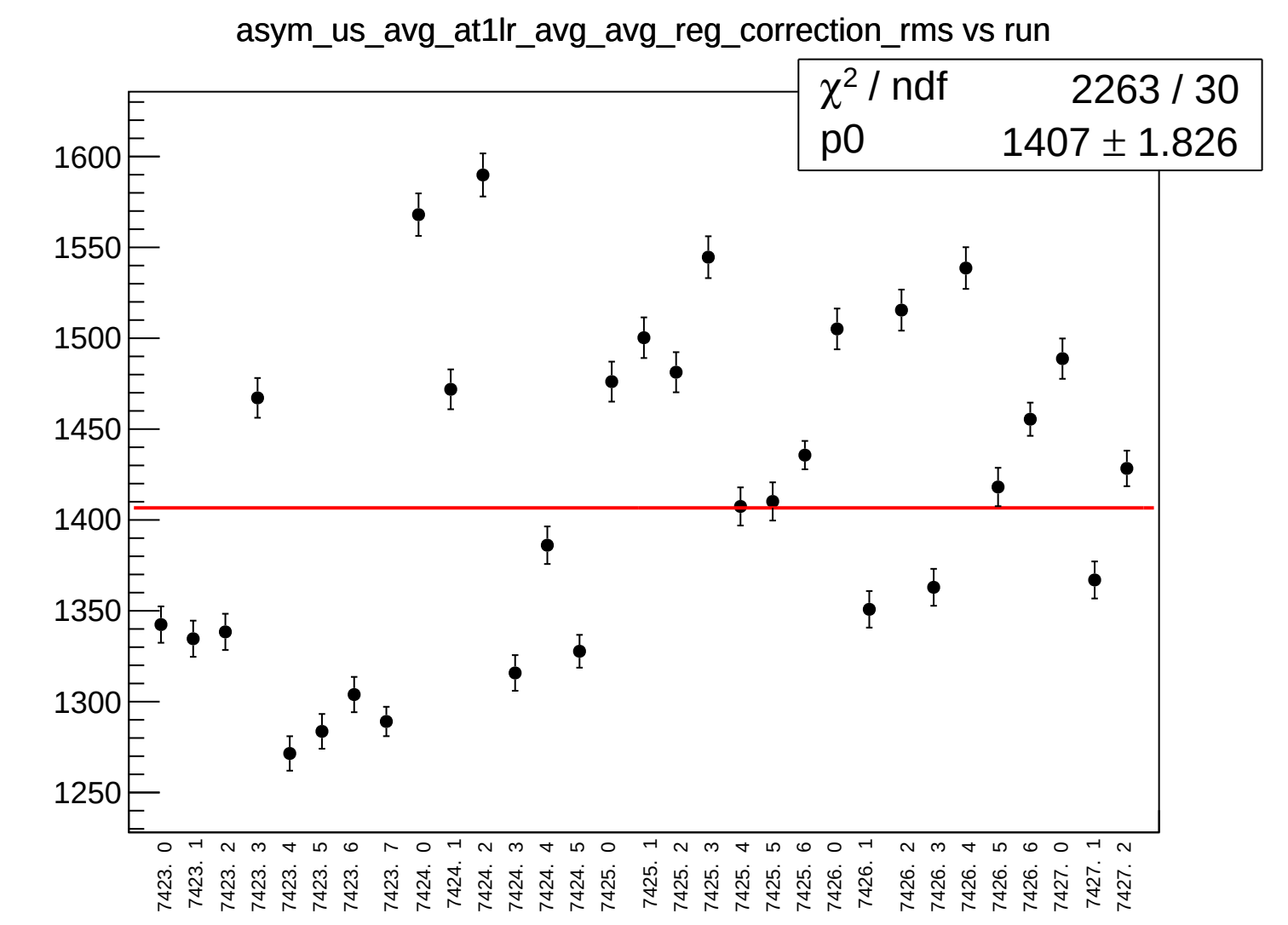

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.209e+05 / 30
p0 2.838e−11 ± 4.12e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

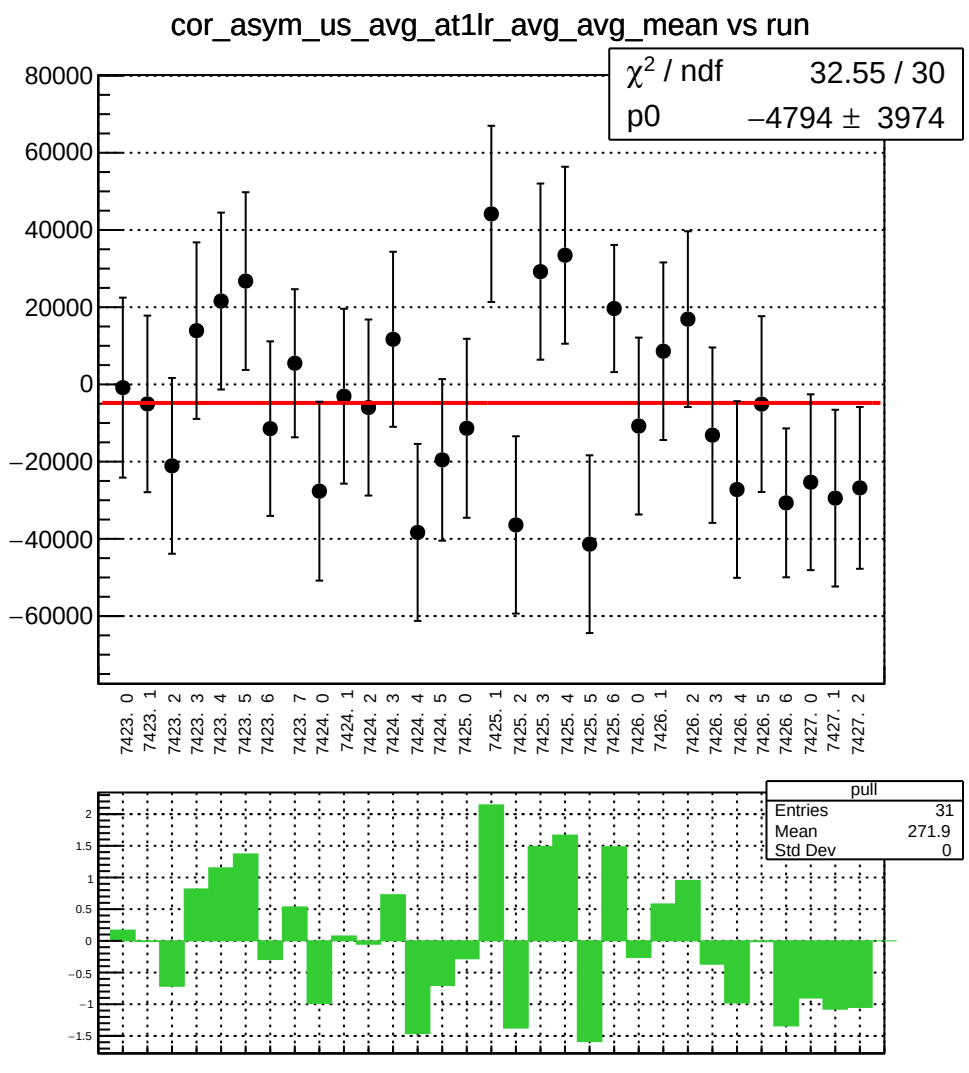

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 32.55 / 30
p0 −4792 ± 3974
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 272
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.00945
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

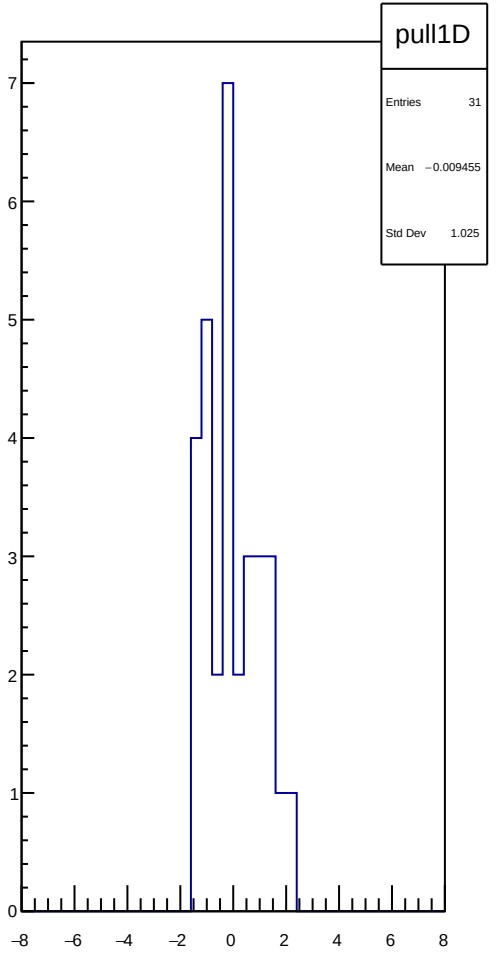

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 30.72 / 30
p0 2168 ± 2.81
2220
2200
2180
2160
2140
2120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

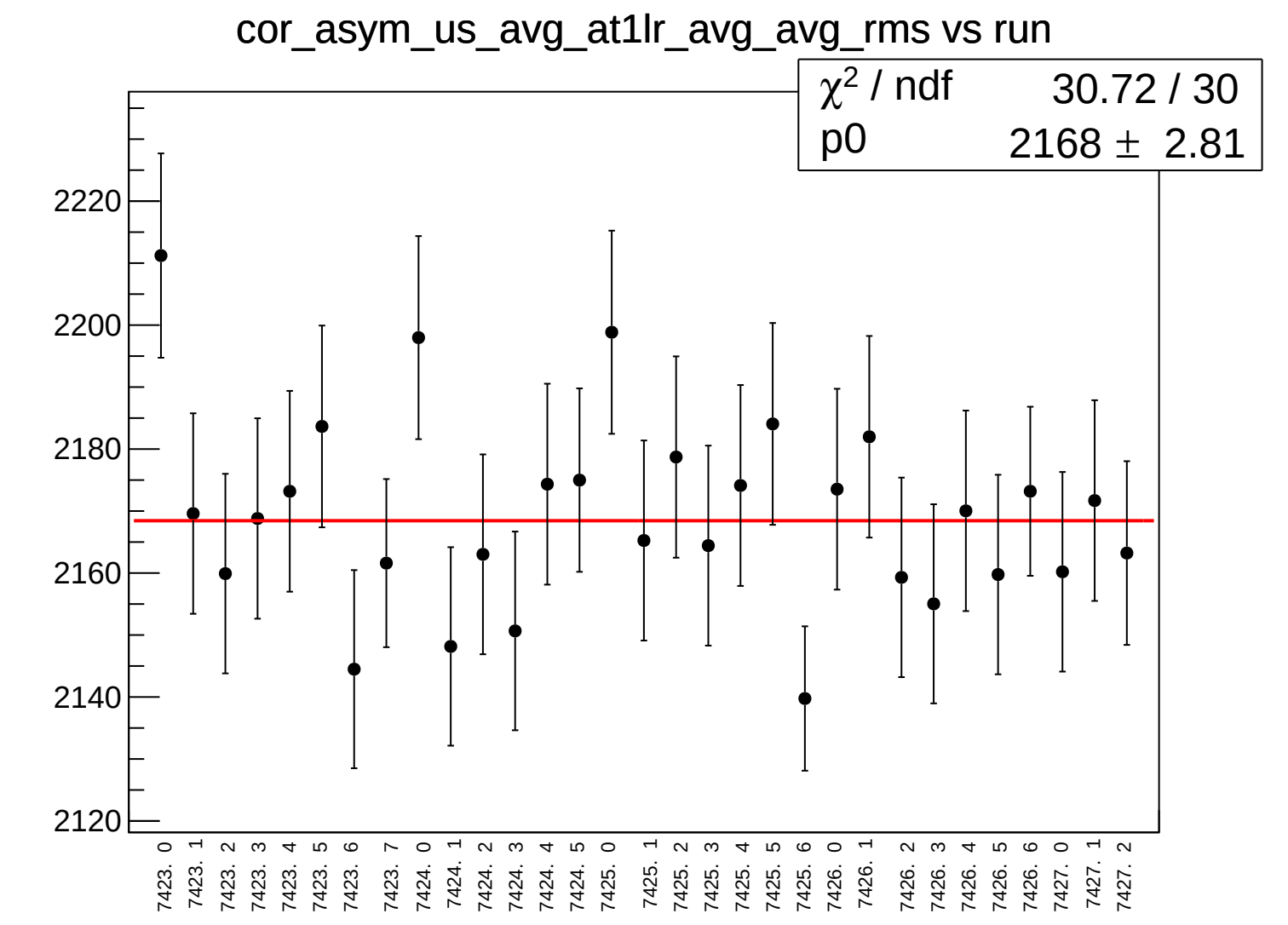

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 19.58 / 30
p0 1783 ± 2583
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 6577
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

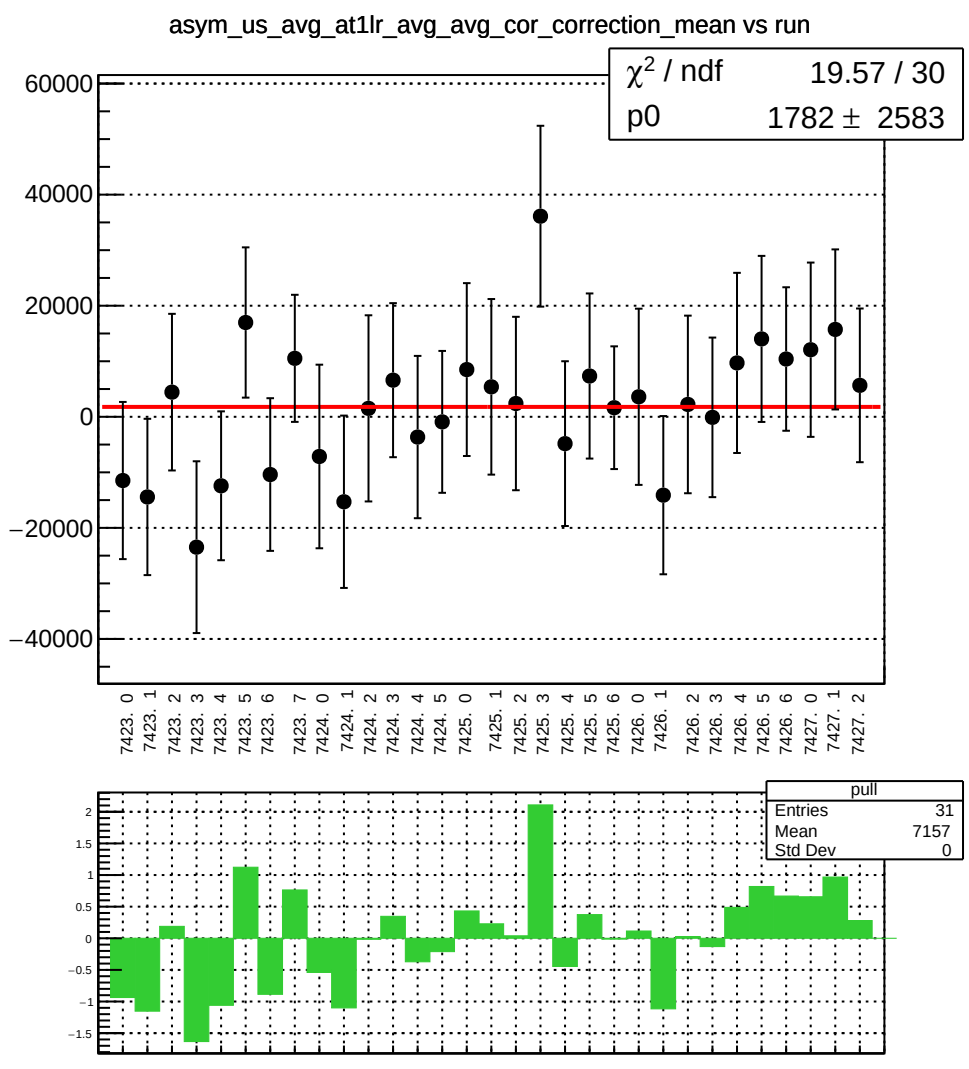

pull1D
Entries 31
Mean 0.0005127
Std Dev 0.7947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

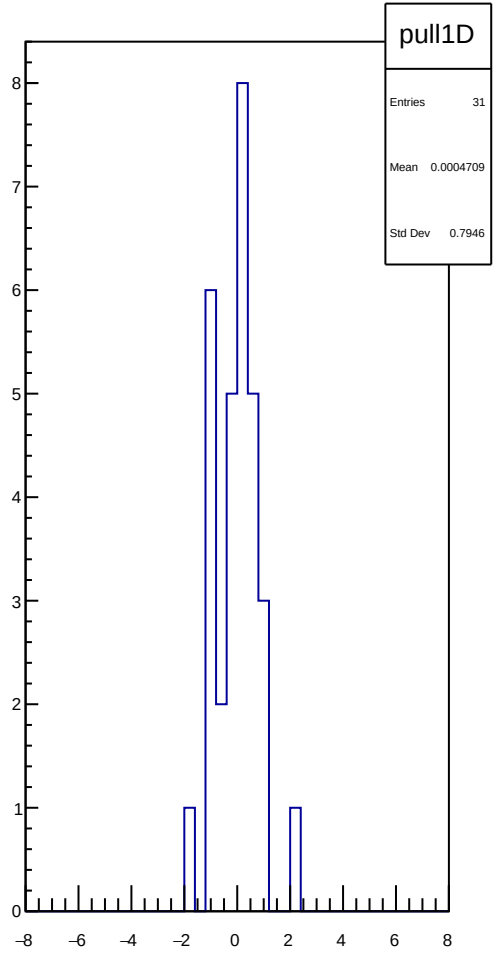

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2263 / 30
p0 1407 ± 1.826
1600
1550
1500
1450
1400
1350
1300
1250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

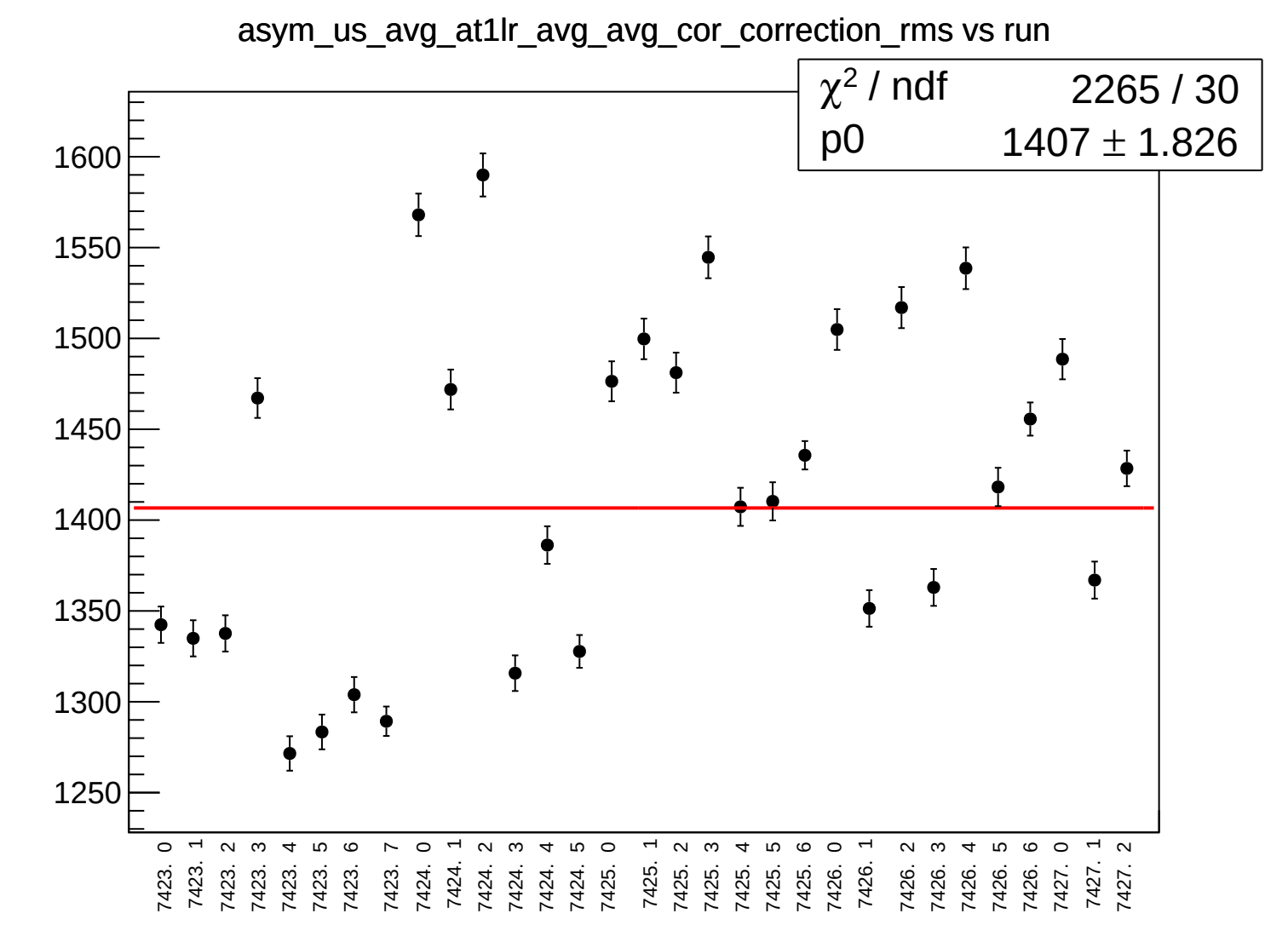

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 32.55 / 30
p0 −4794 ± 3974
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 271.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

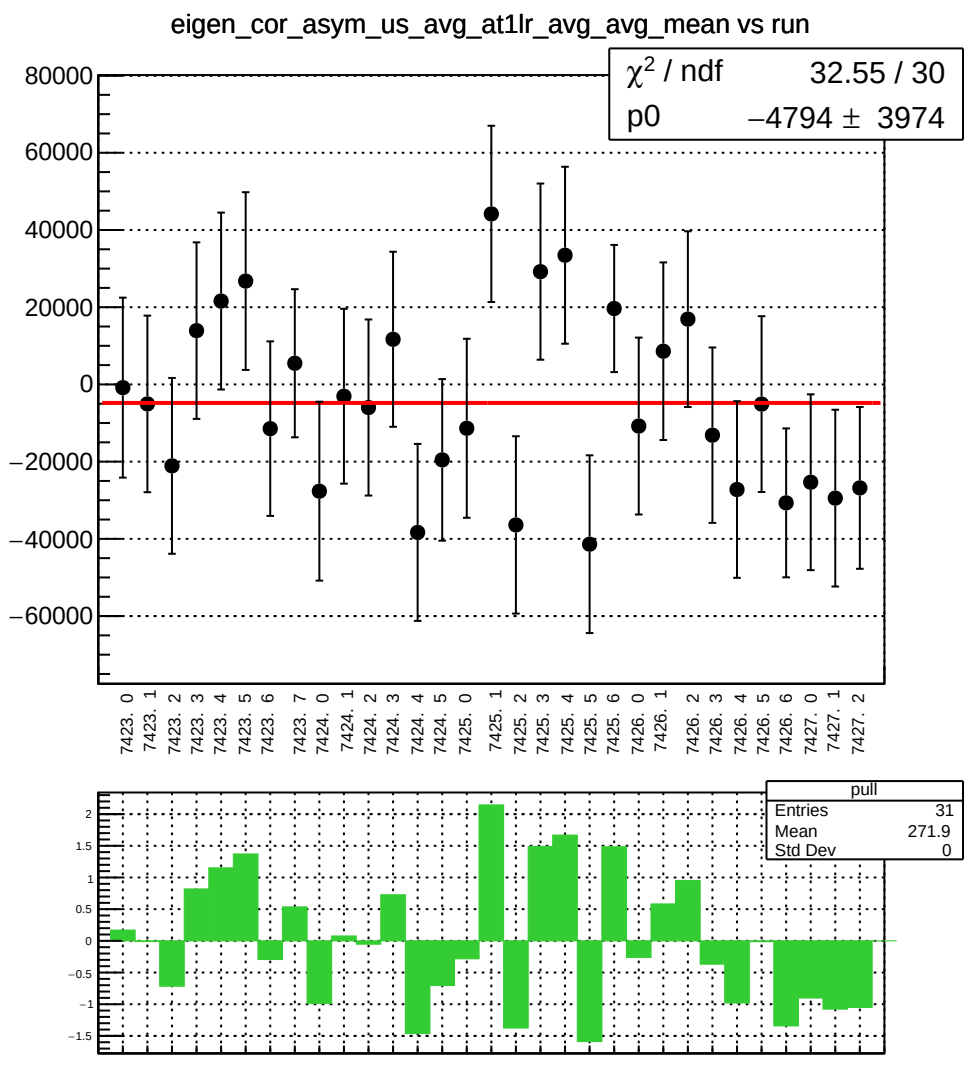

pull1D
Entries 31
Mean −0.009455
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

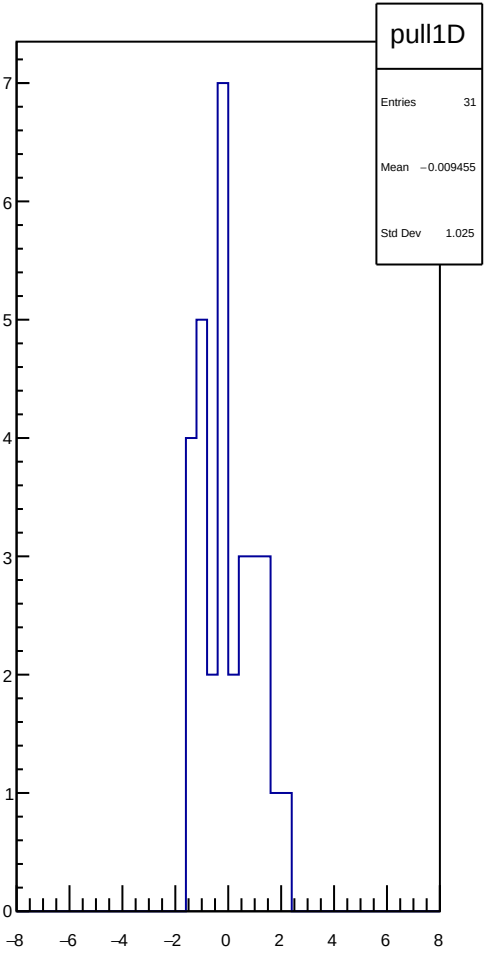

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 30.72 / 30
p0 2168 ± 2.81
2220
2200
2180
2160
2140
2120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

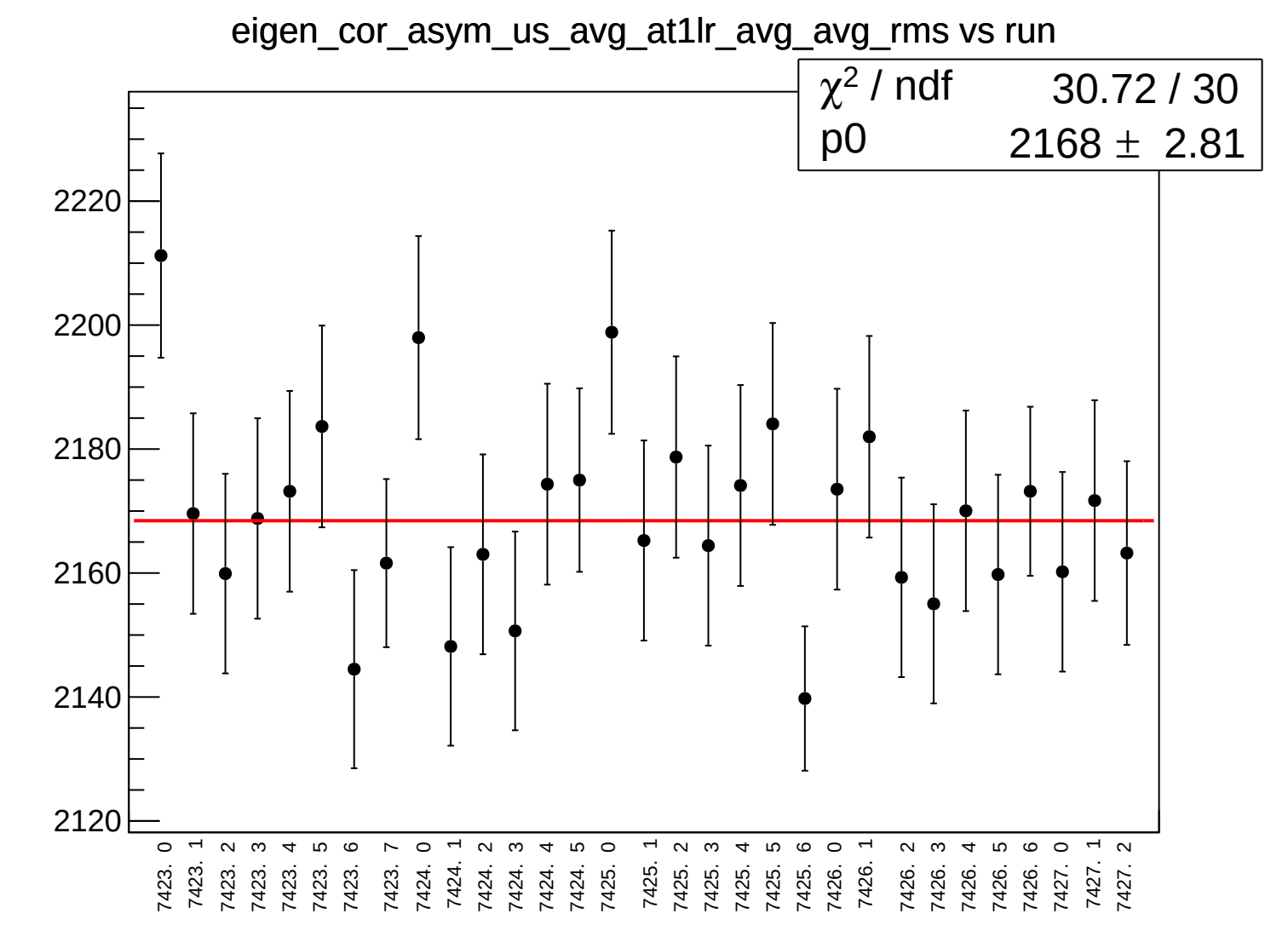

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 19.57 / 30
p0 1782 ± 2583
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 7157
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

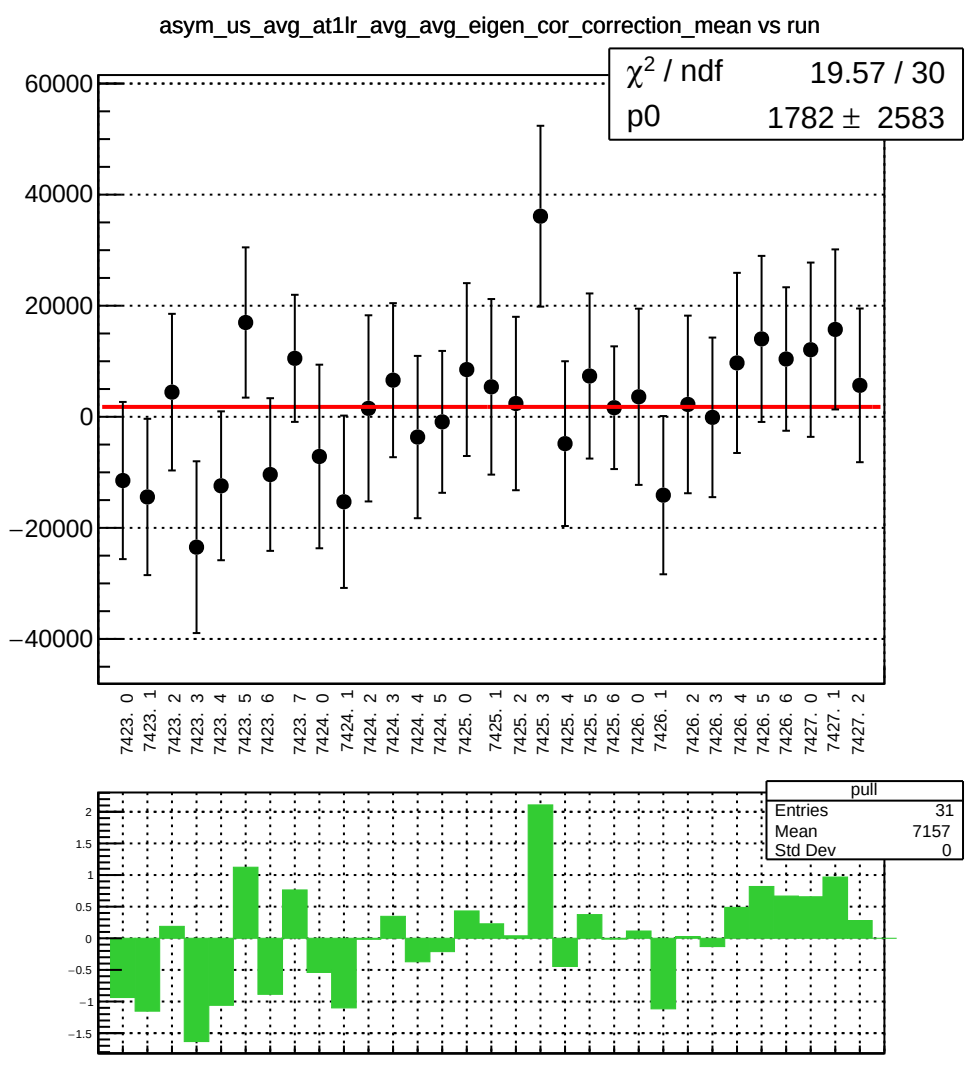

pull1D
Entries 31
Mean 0.0004709
Std Dev 0.7946
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

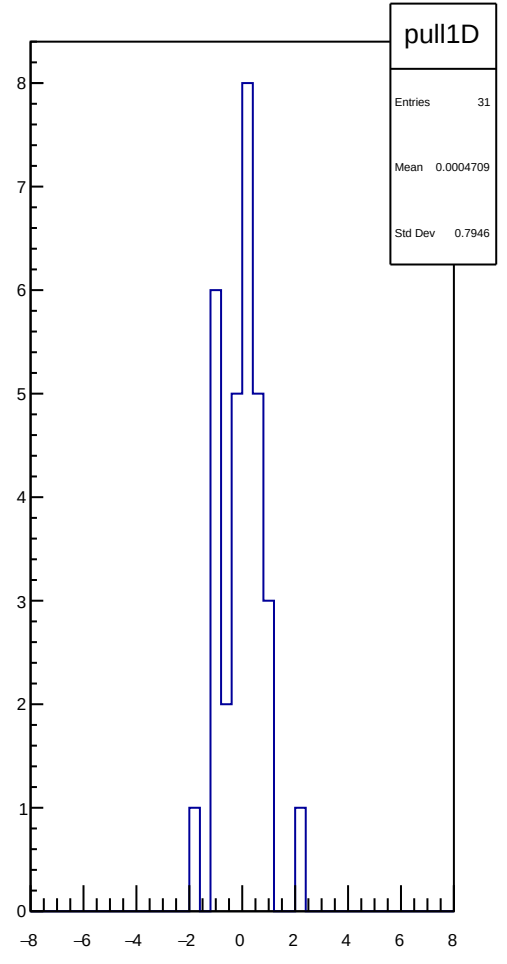

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2265 / 30
p0 1407 ± 1.826
1600
1550
1500
1450
1400
1350
1300
1250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

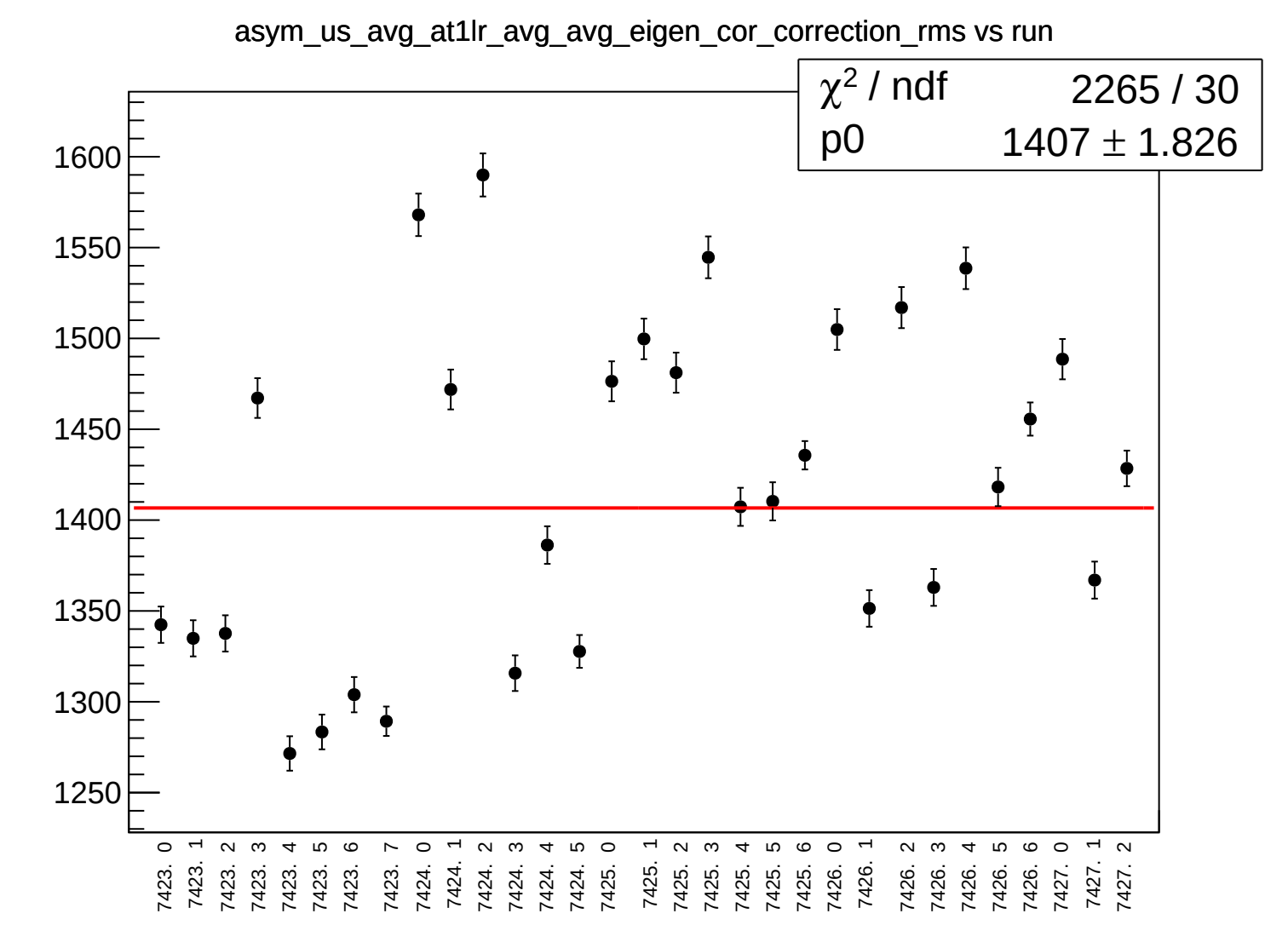

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 32.55 / 30
p0 −4794 ± 3974
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 271.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

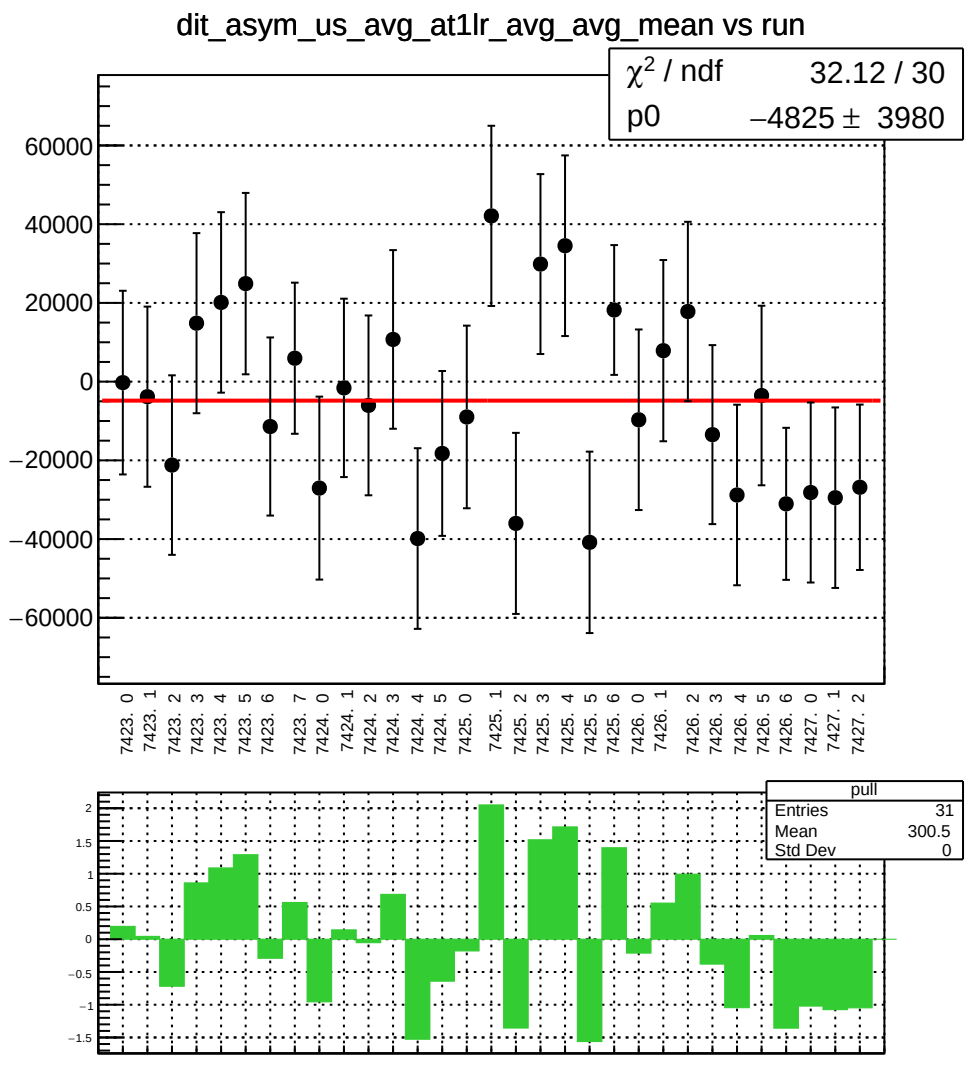

pull1D
Entries 31
Mean −0.009455
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

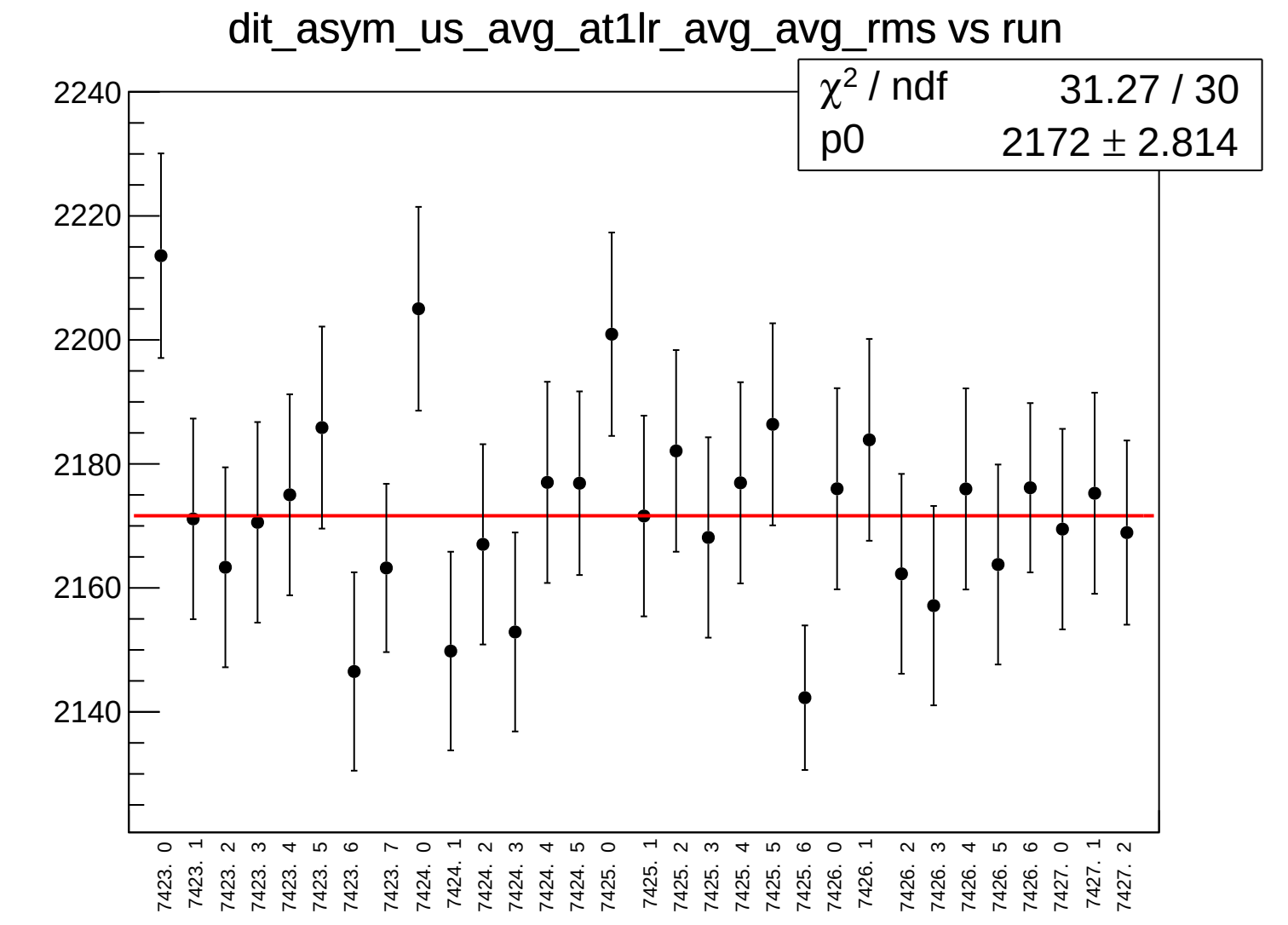

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 30.72 / 30
p0 2168 ± 2.81
2220
2200
2180
2160
2140
2120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

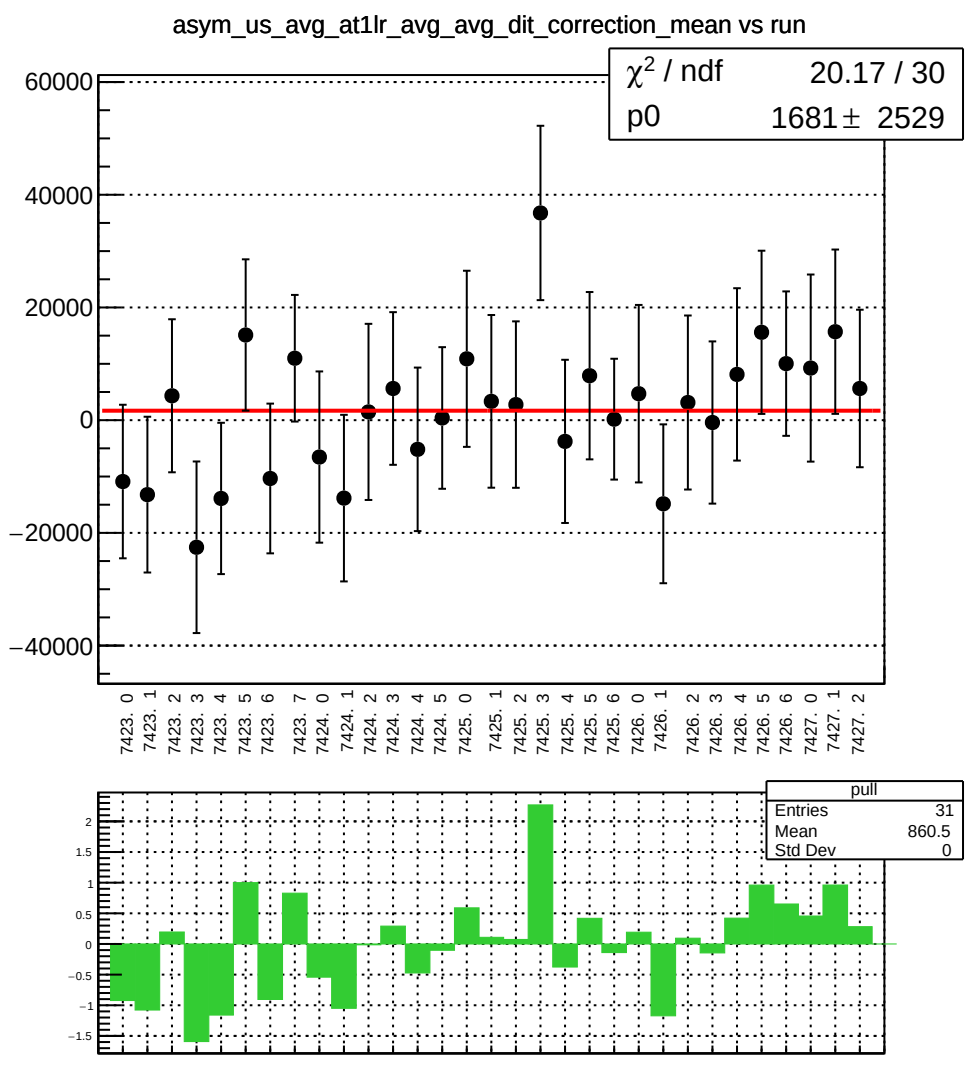

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 19.57 / 30
p0 1782 ± 2583
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 7157
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

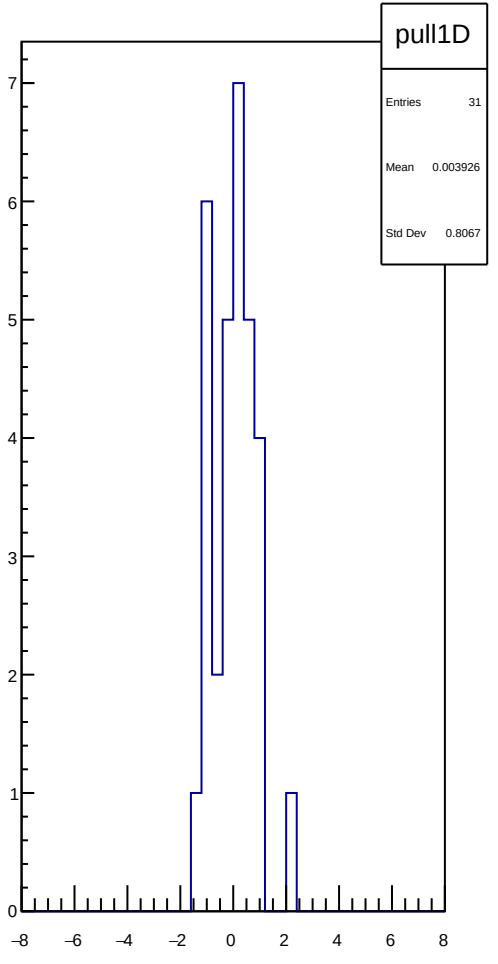

pull1D
Entries 31
Mean 0.0004709
Std Dev 0.7946
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

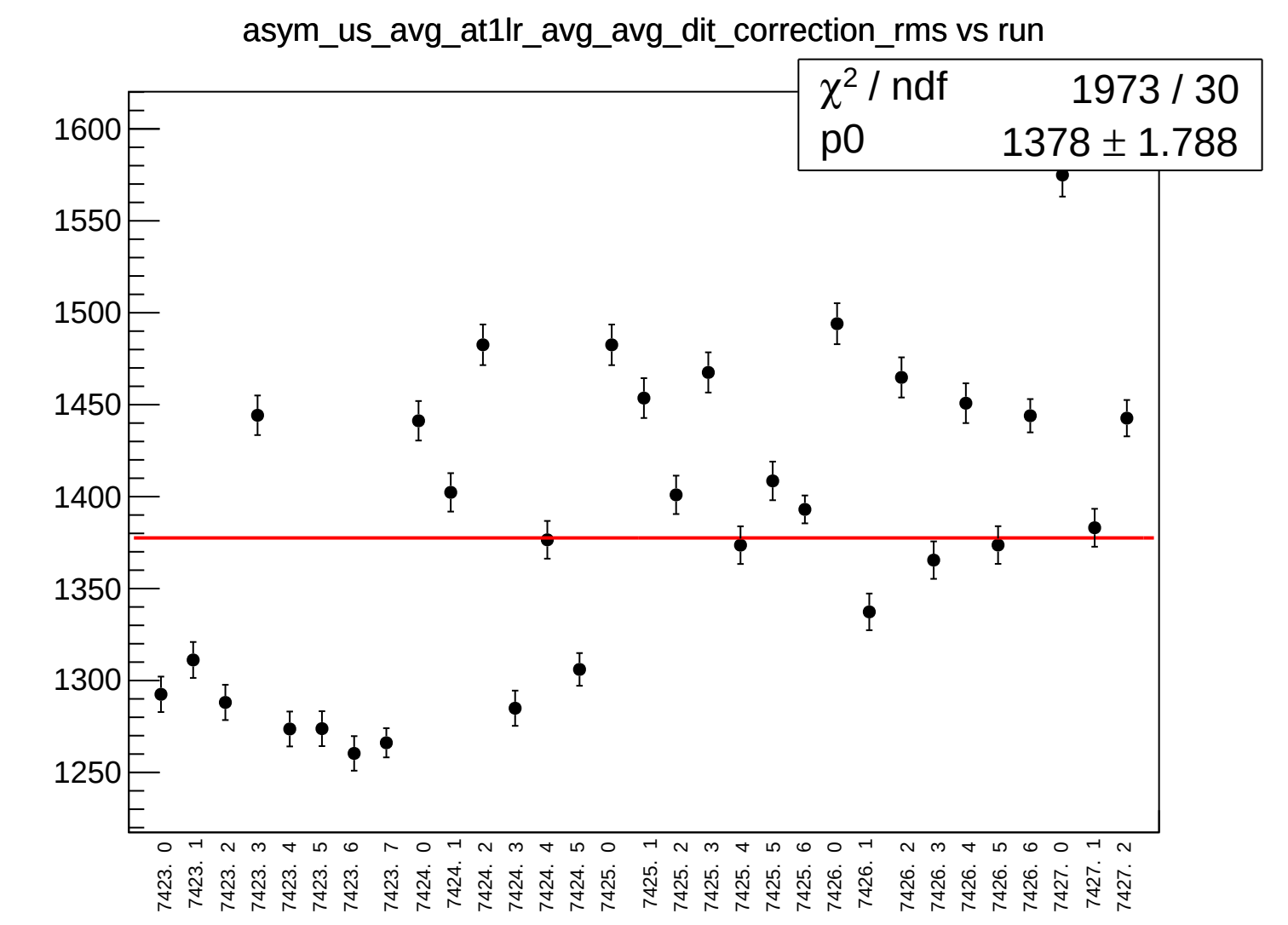

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2265 / 30
p0 1407 ± 1.826
1600
1550
1500
1450
1400
1350
1300
1250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

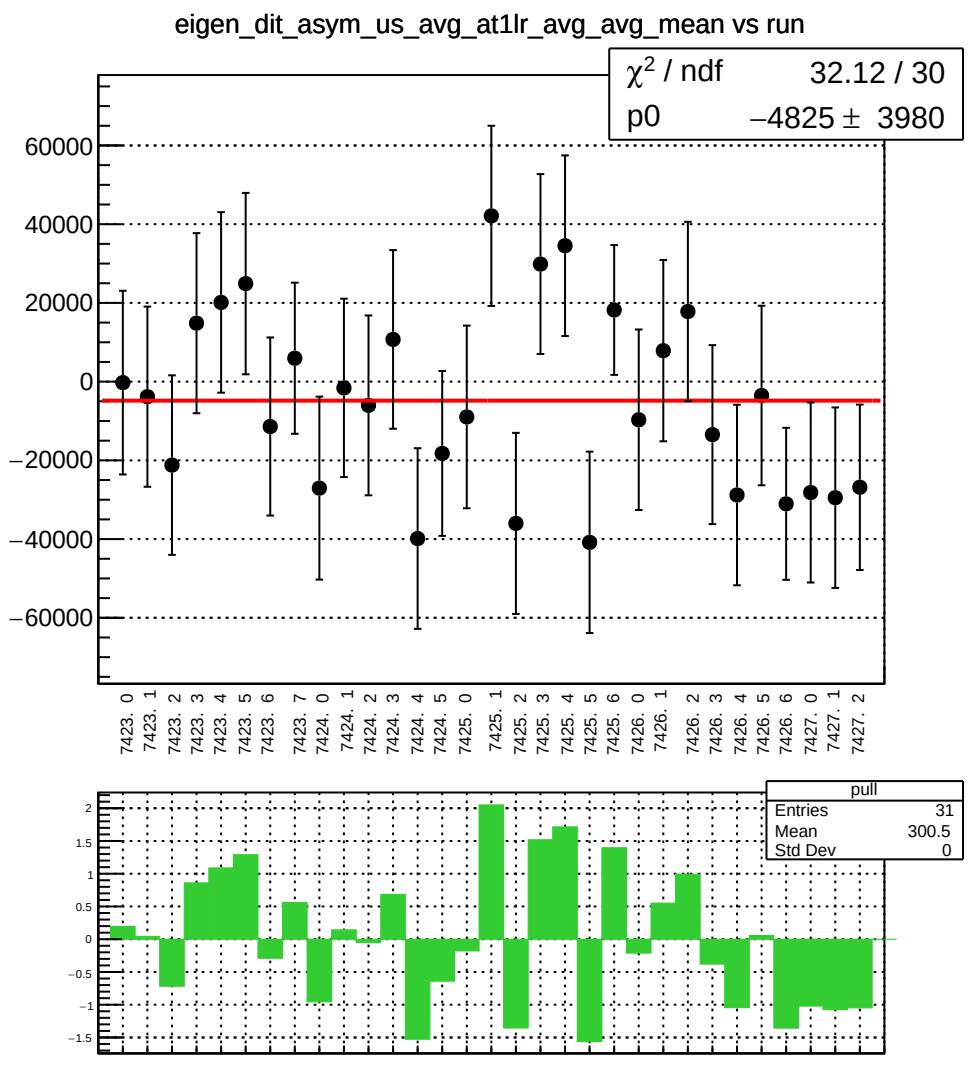

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 32.12 / 30
p0 −4825 ± 3980
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 300.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.008757
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

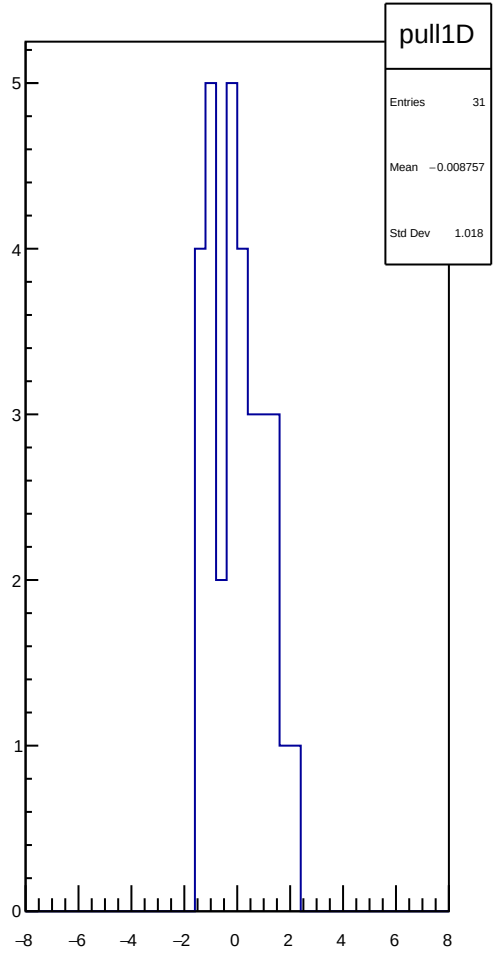

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 31.27 / 30
p0 2172 ± 2.814
2240
2220
2200
2180
2160
2140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

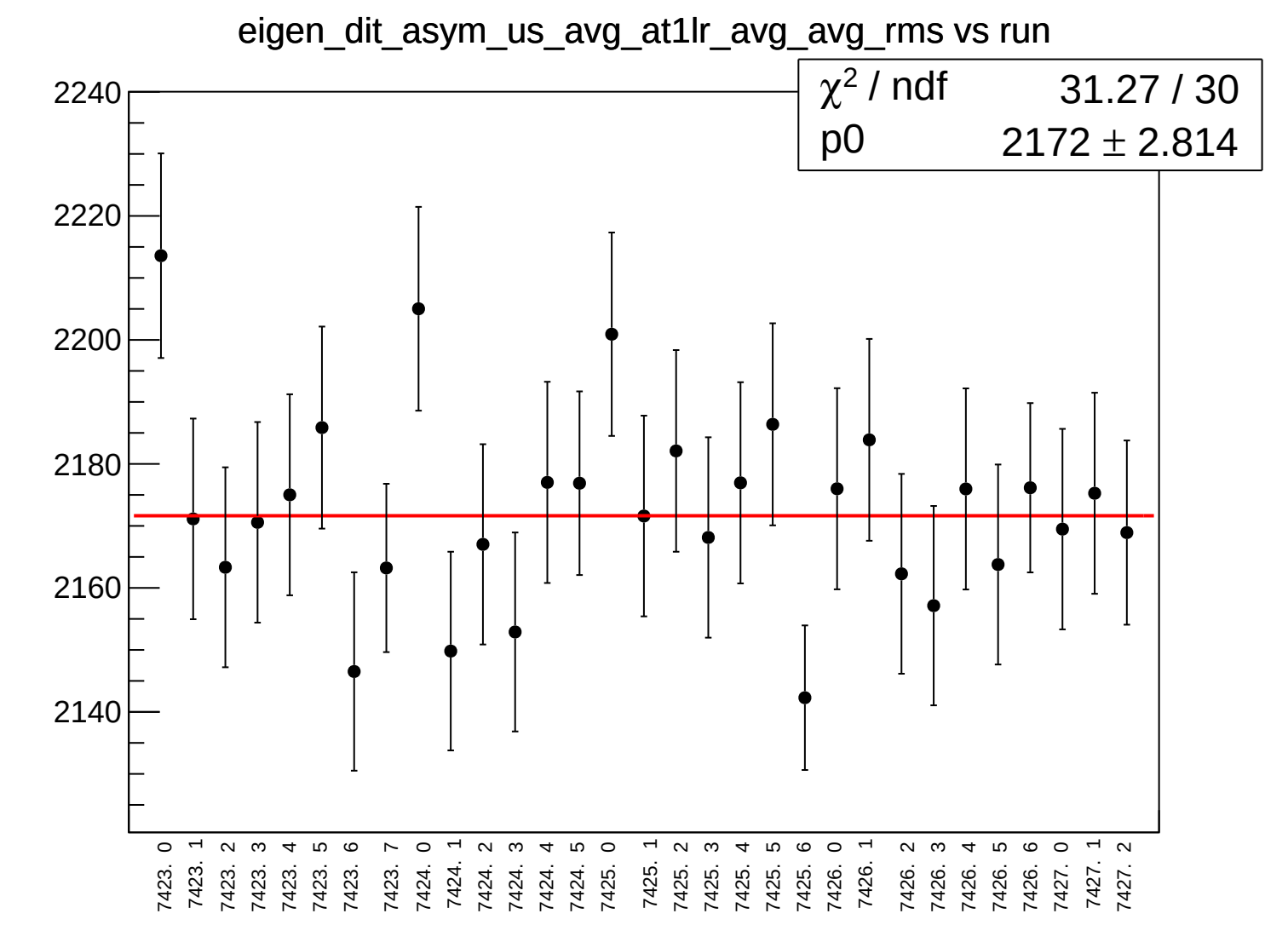

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 20.17 / 30
p0 1681 ± 2529
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 860.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

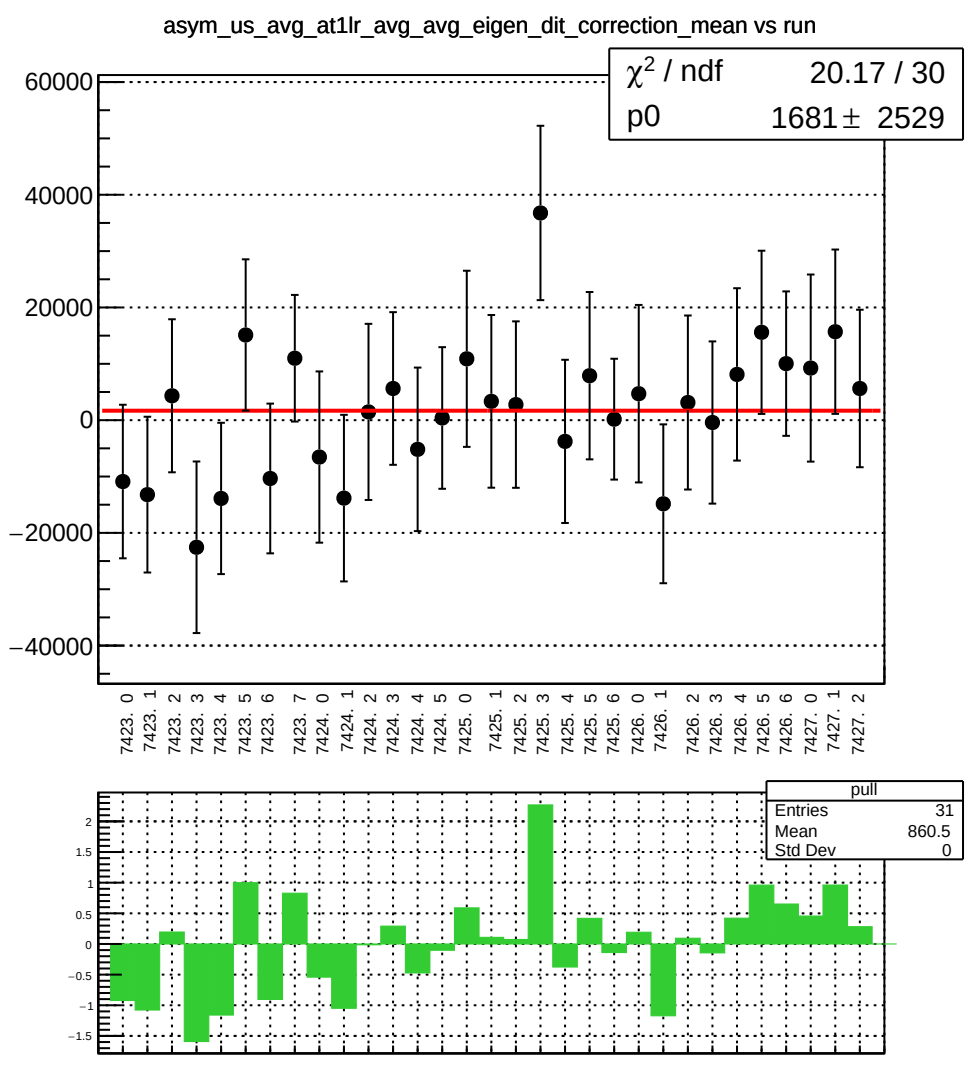

pull1D
Entries 31
Mean 0.003926
Std Dev 0.8067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

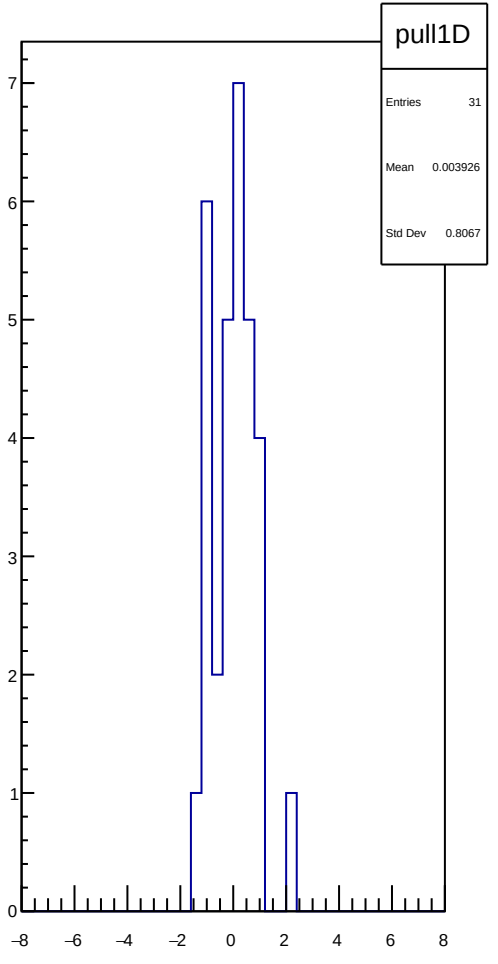

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1973 / 30
p0 1378 ± 1.788
1600
1550
1500
1450
1400
1350
1300
1250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

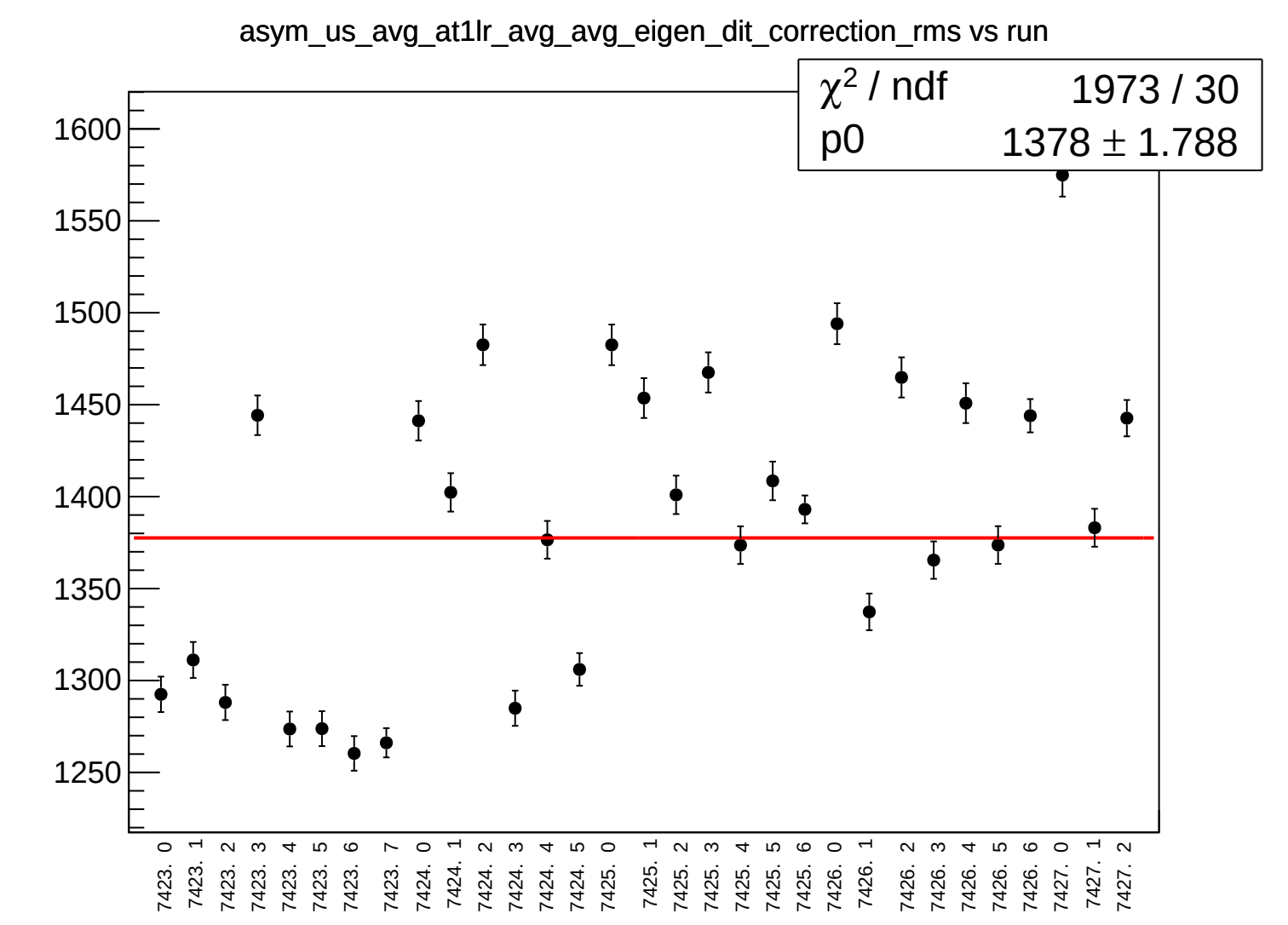

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 32.12 / 30
p0 −4825 ± 3980
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 300.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

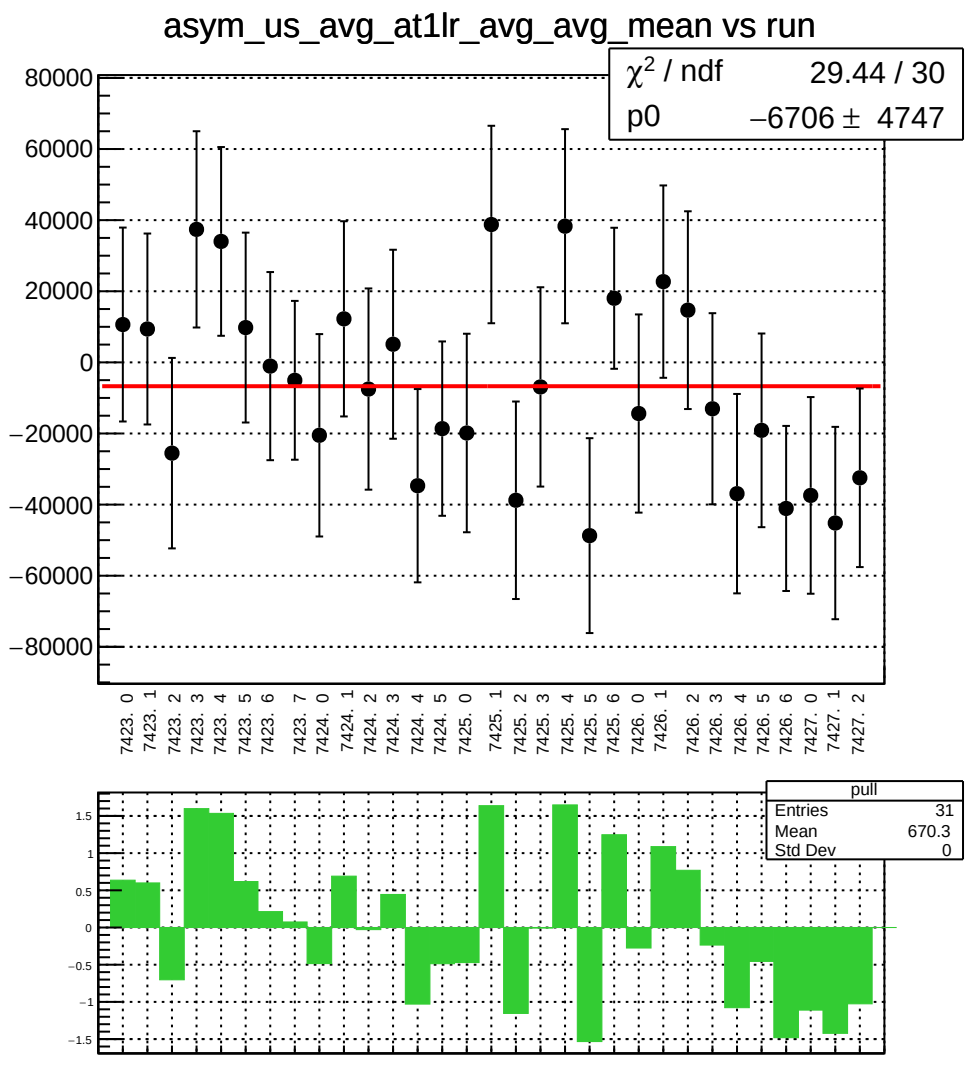

pull1D
Entries 31
Mean −0.008757
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

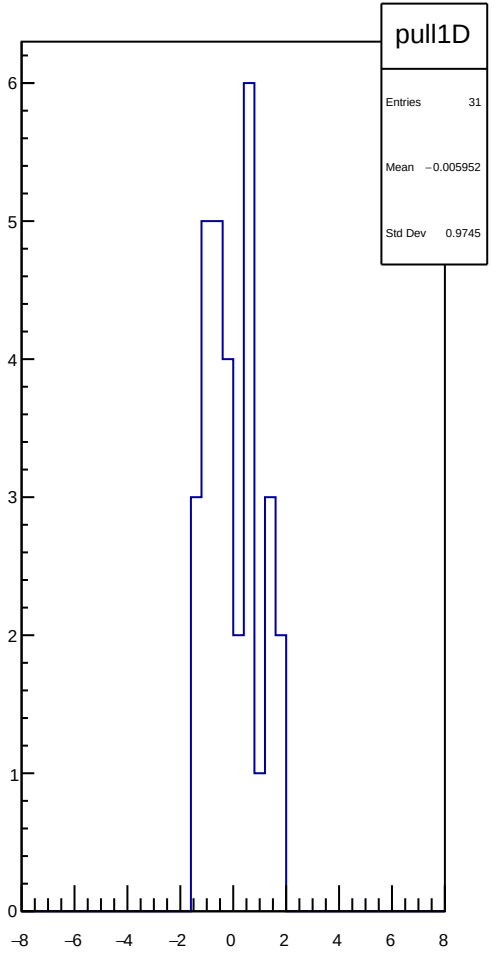

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 31.27 / 30
p0 2172 ± 2.814
2240
2220
2200
2180
2160
2140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

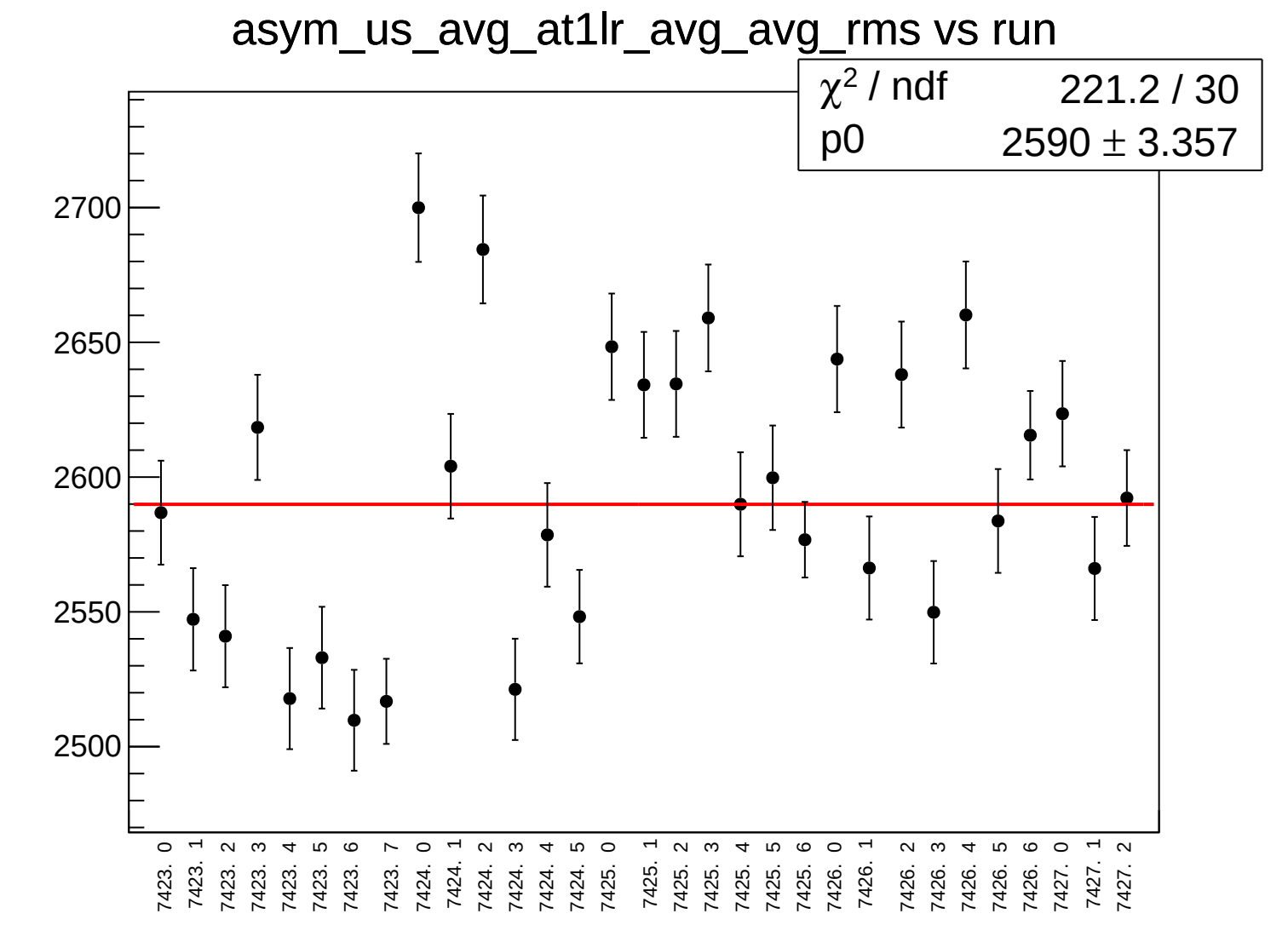

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 20.17 / 30
p0 1681 ± 2529
60000
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 860.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

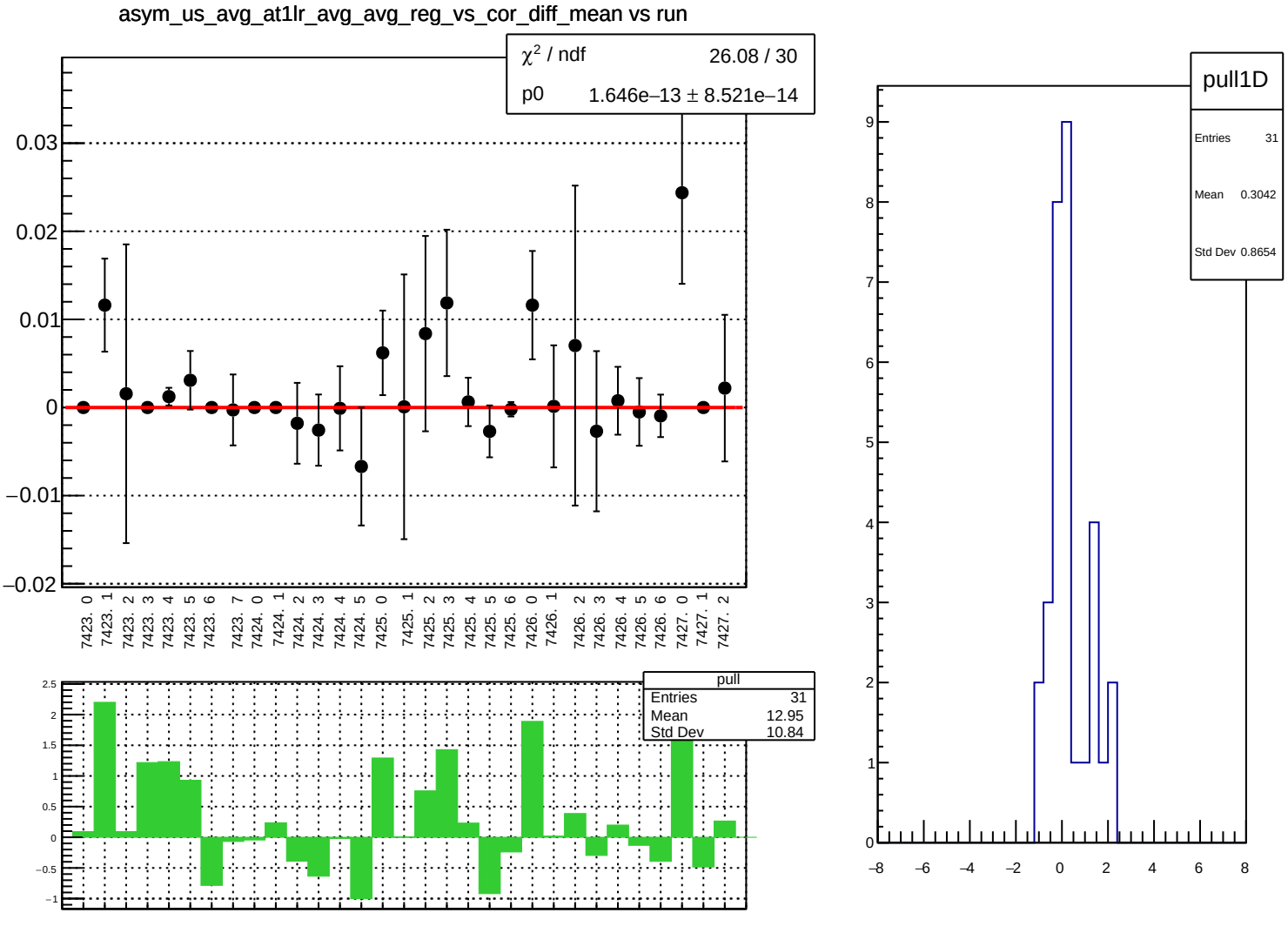

pull1D
Entries 31
Mean 0.003926
Std Dev 0.8067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

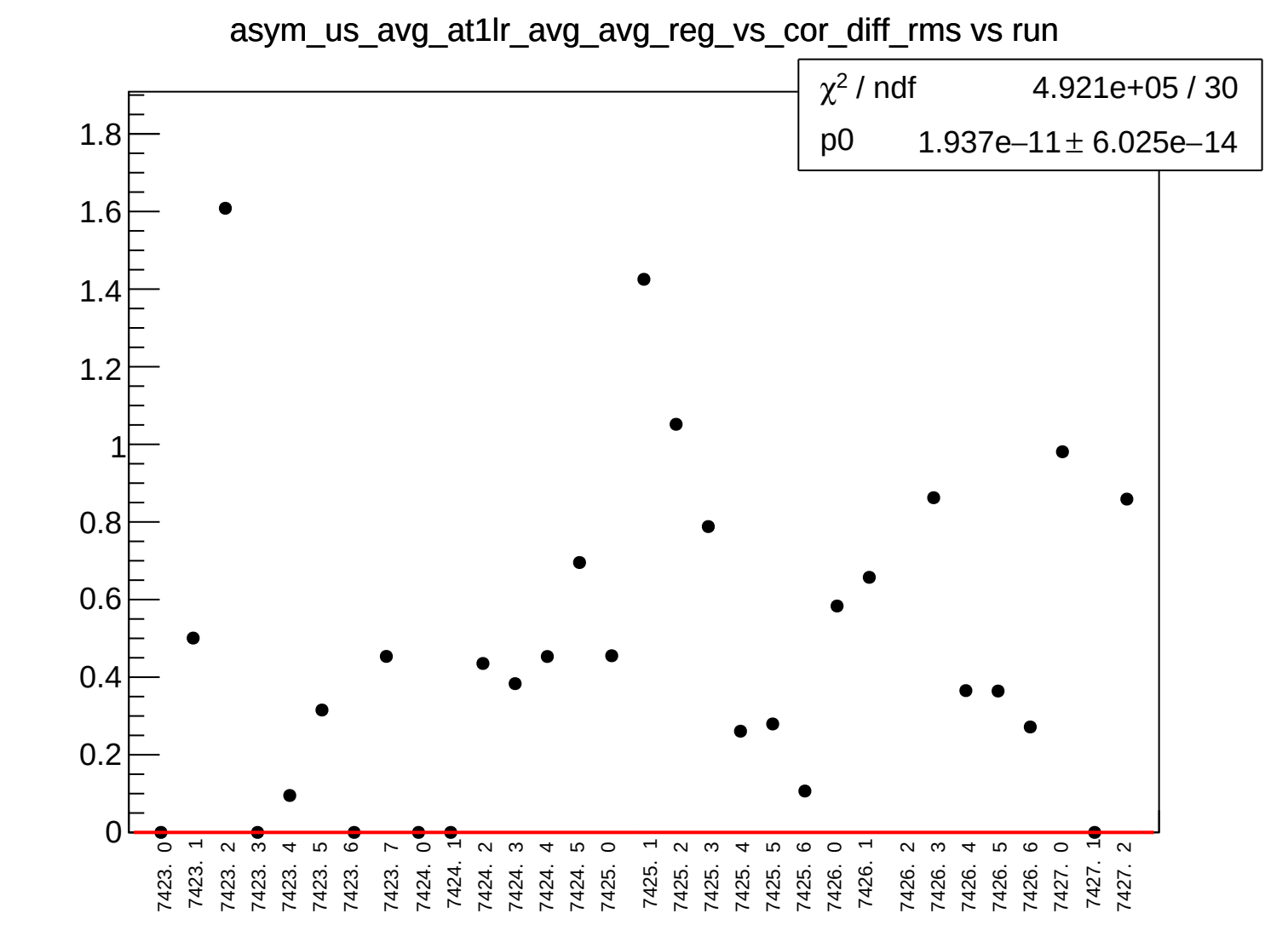

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1973 / 30
p0 1378 ± 1.788
1600
1550
1500
1450
1400
1350
1300
1250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

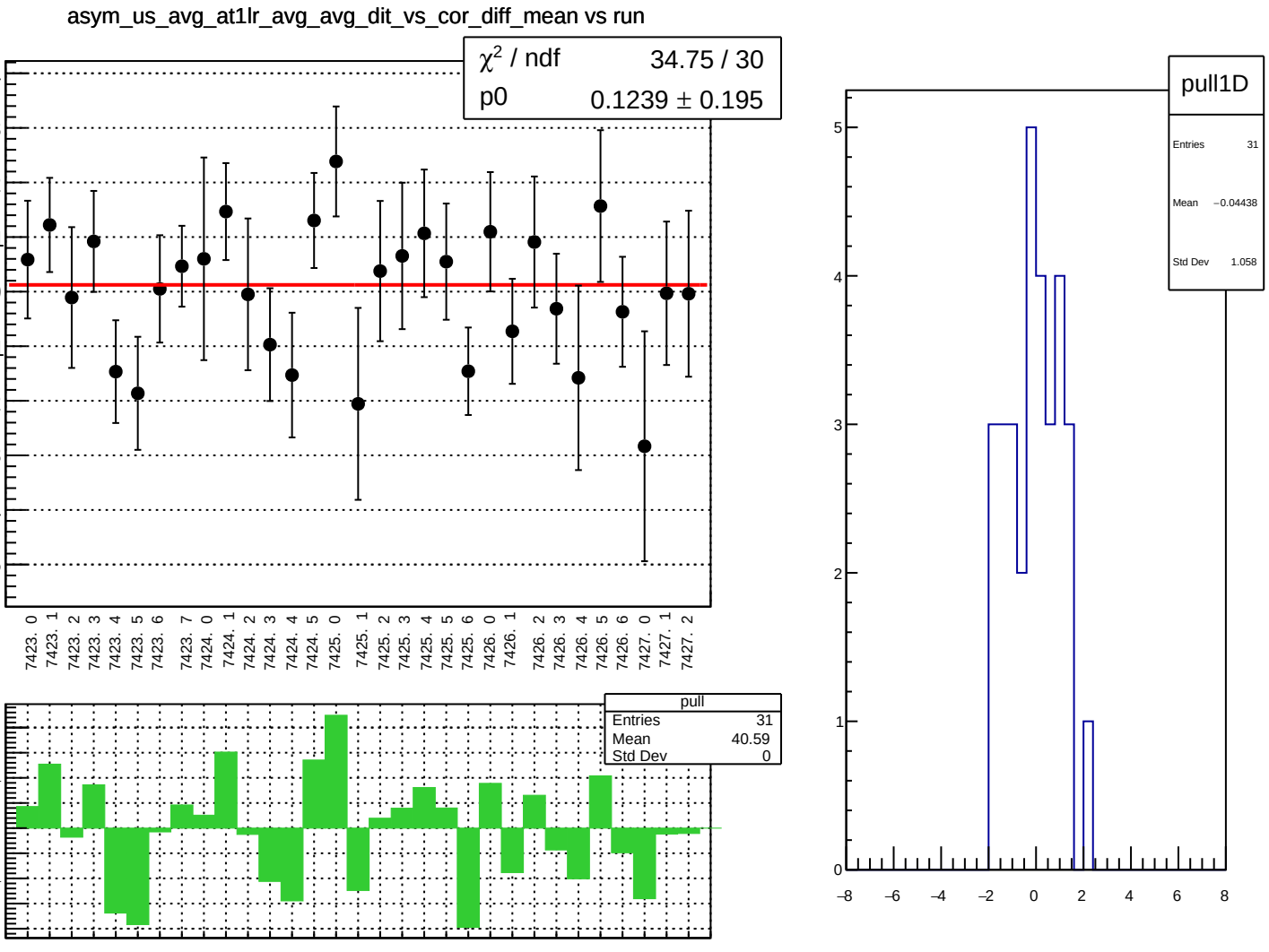

asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 29.44 / 30
p0 −6706 ± 4747
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 670.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

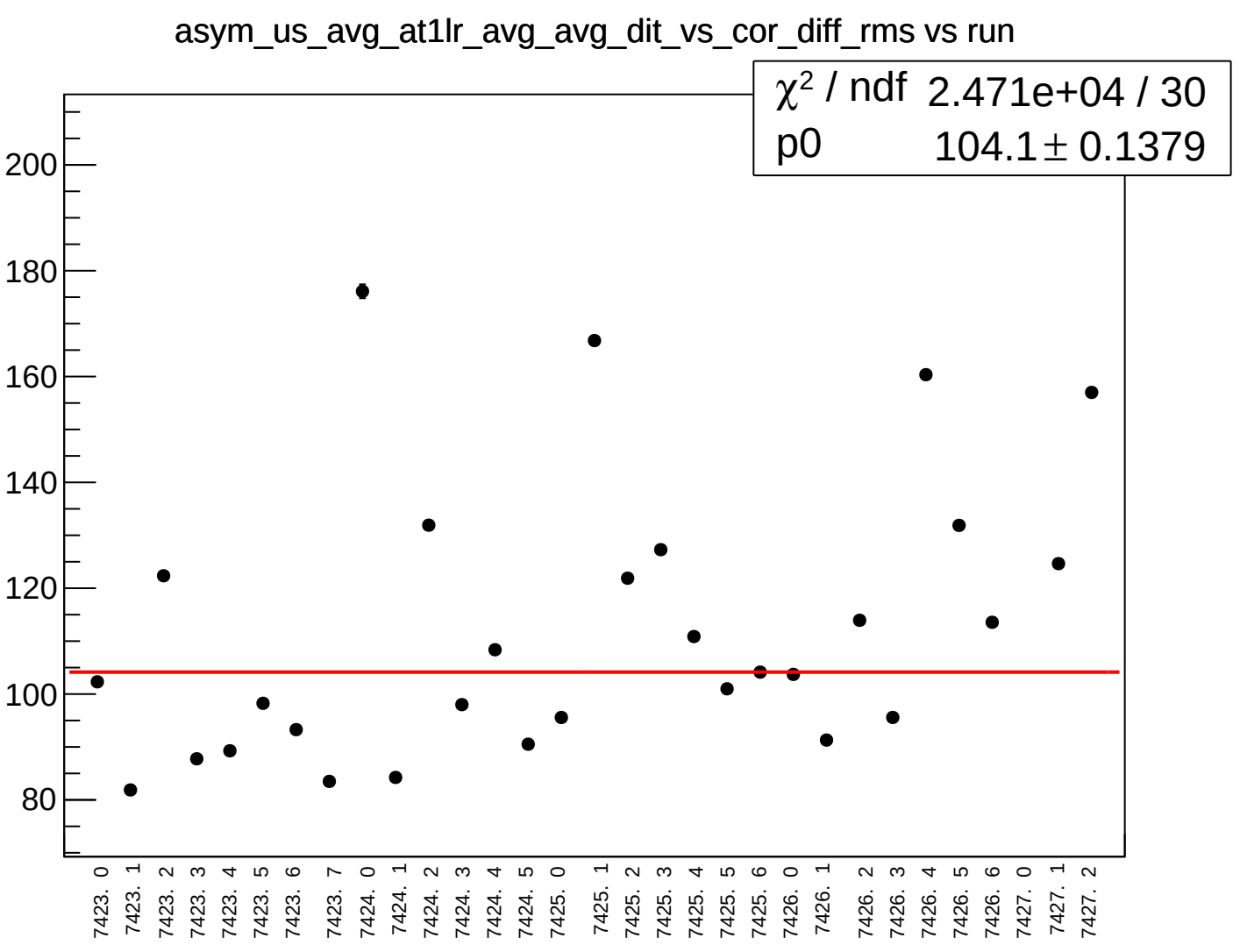

pull1D
Entries 31
Mean −0.005952
Std Dev 0.9745
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

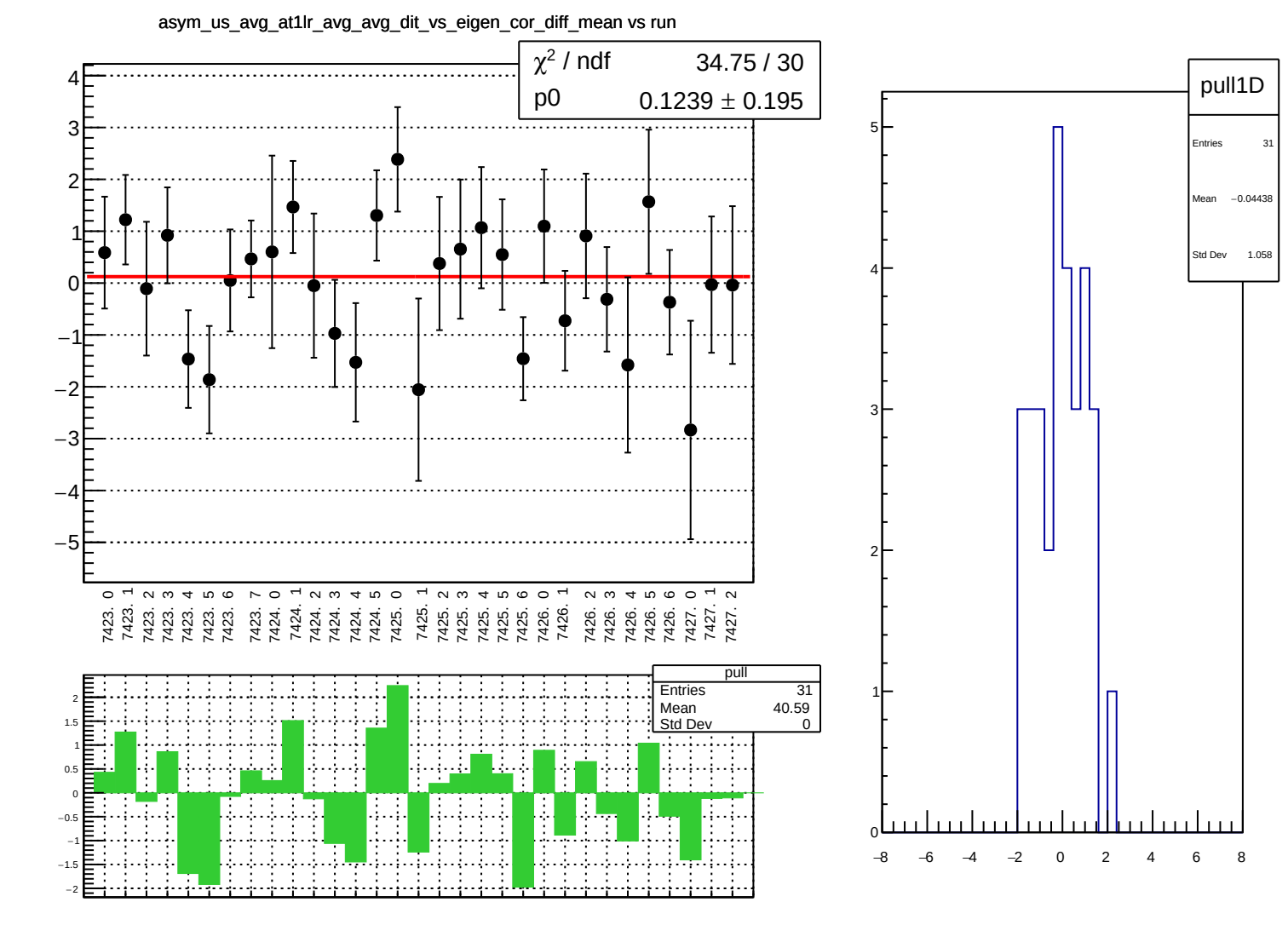

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 221.2 / 30
p0 2590 ± 3.357
2700
2650
2600
2550
2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

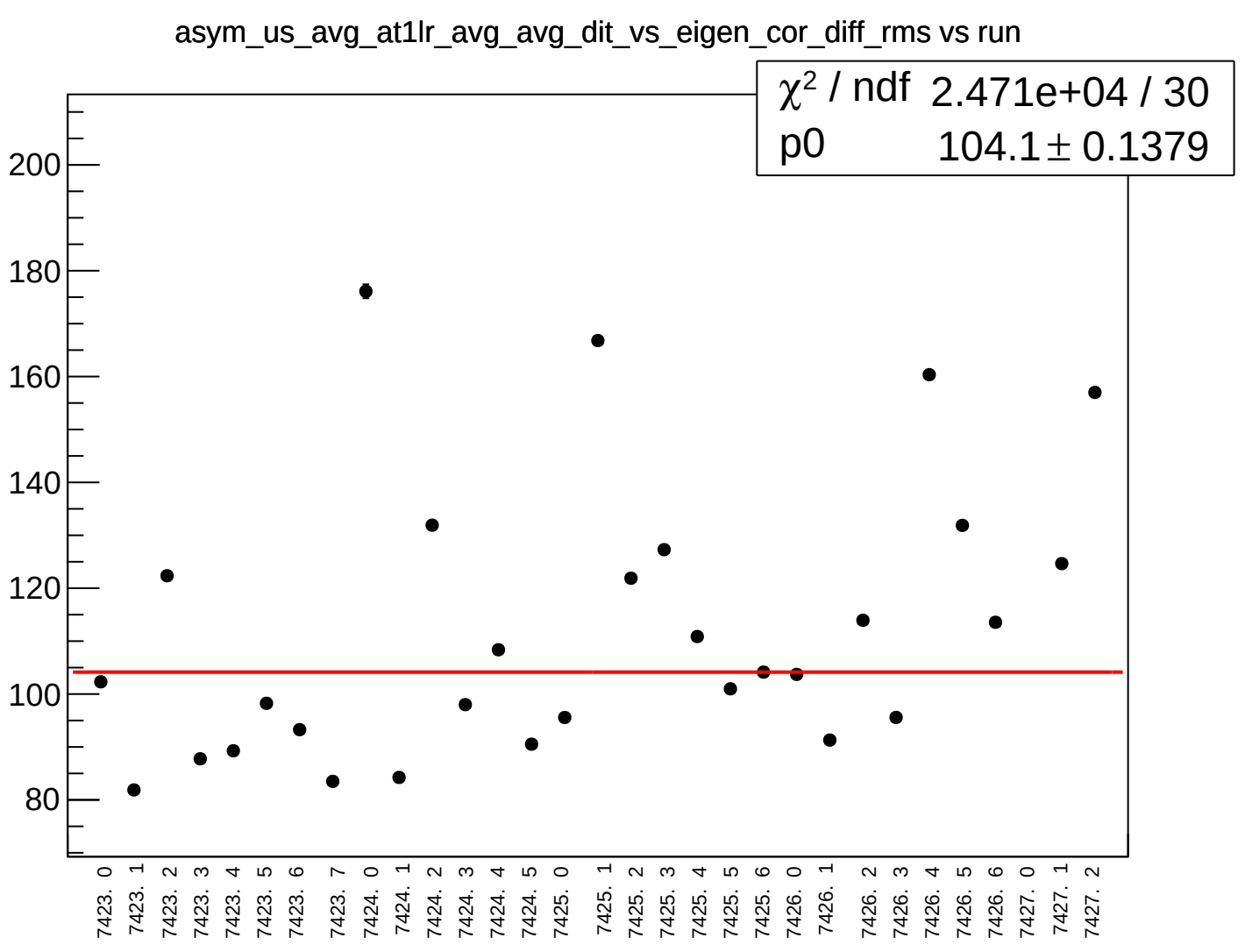

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.08 / 30
p0 1.646e−13 ± 8.521e−14
0.03
0.02
0.01
0
−0.01
−0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 12.95
Std Dev 10.84
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.3042
Std Dev 0.8654
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

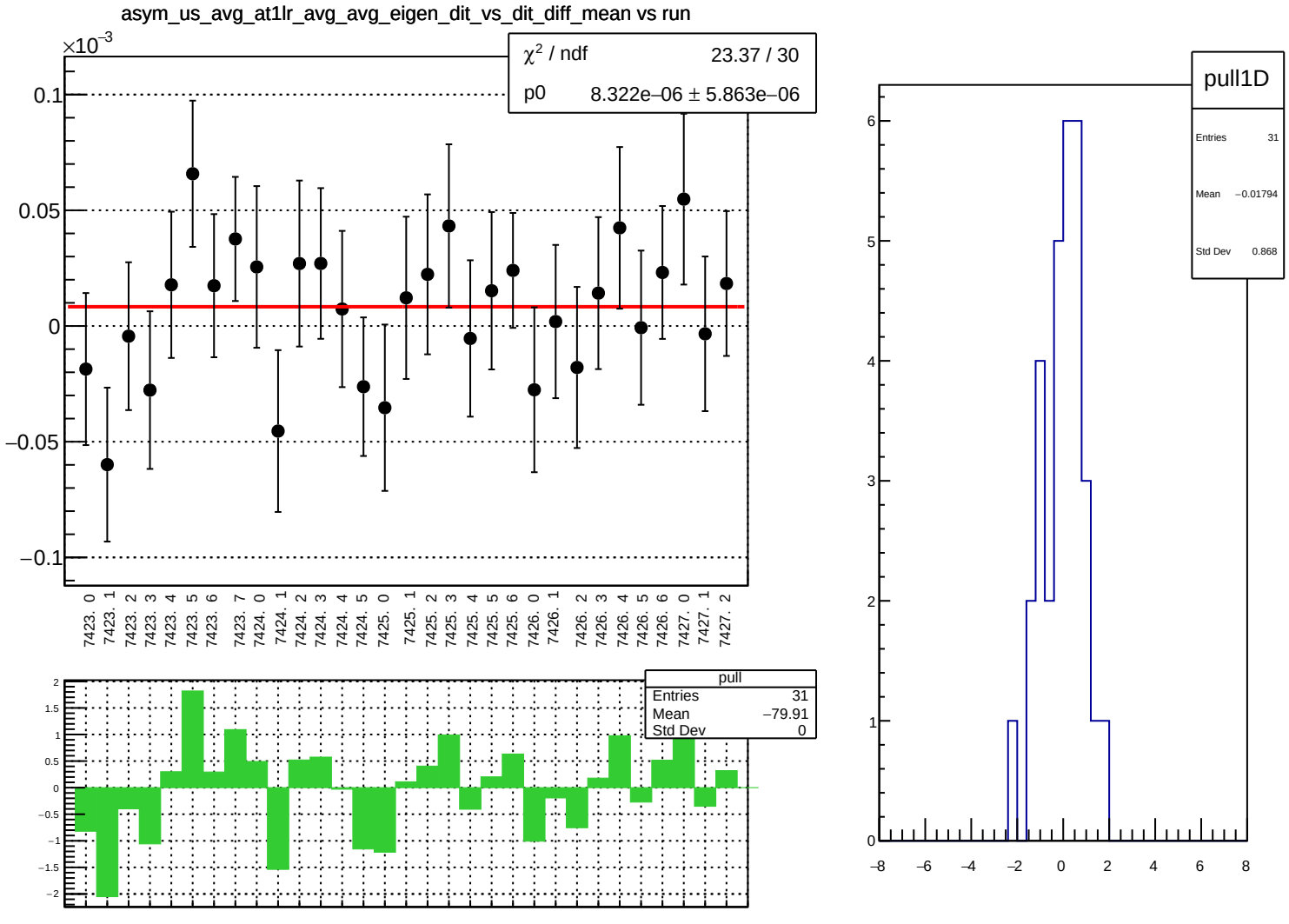

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.921e+05 / 30
p0 1.937e−11 ± 6.025e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

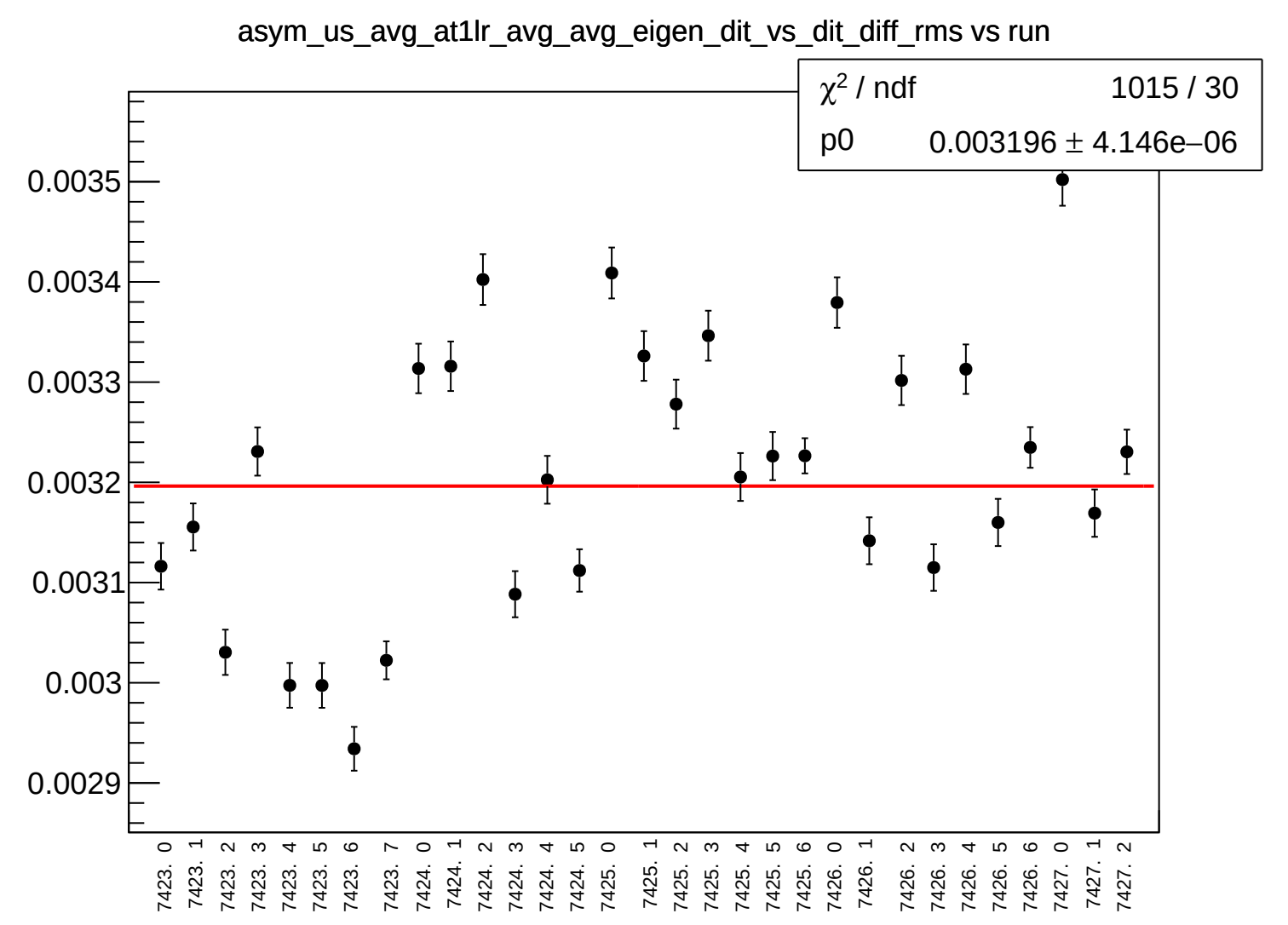

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.75 / 30
p0 0.1239 ± 0.195
pull
Entries 31
Mean 40.59
Std Dev 0
pull1D
Entries 31
Mean −0.04438
Std Dev 1.058

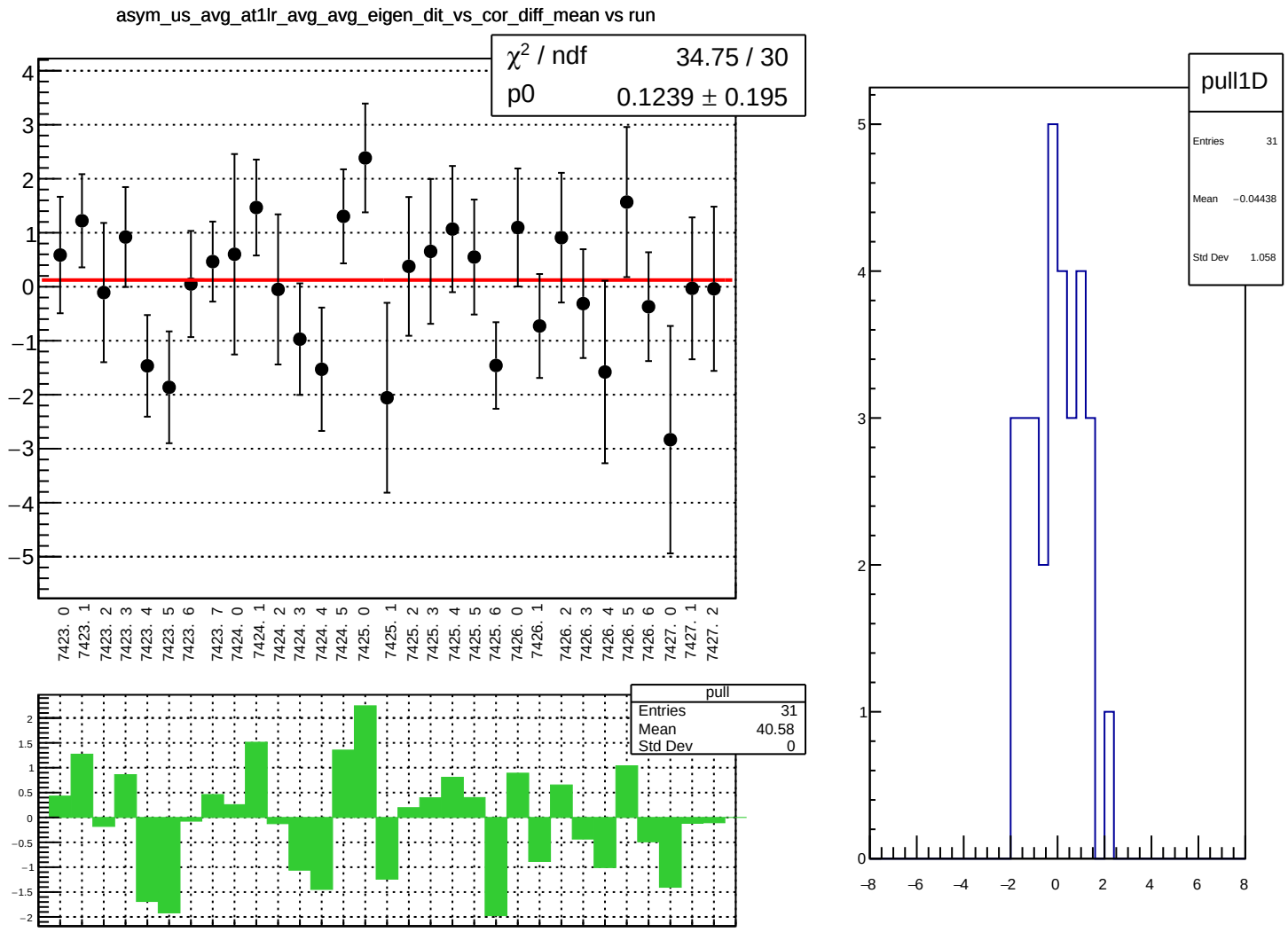

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.471e+04 / 30
p0 104.1 ± 0.1379
200
180
160
140
120
100
80
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

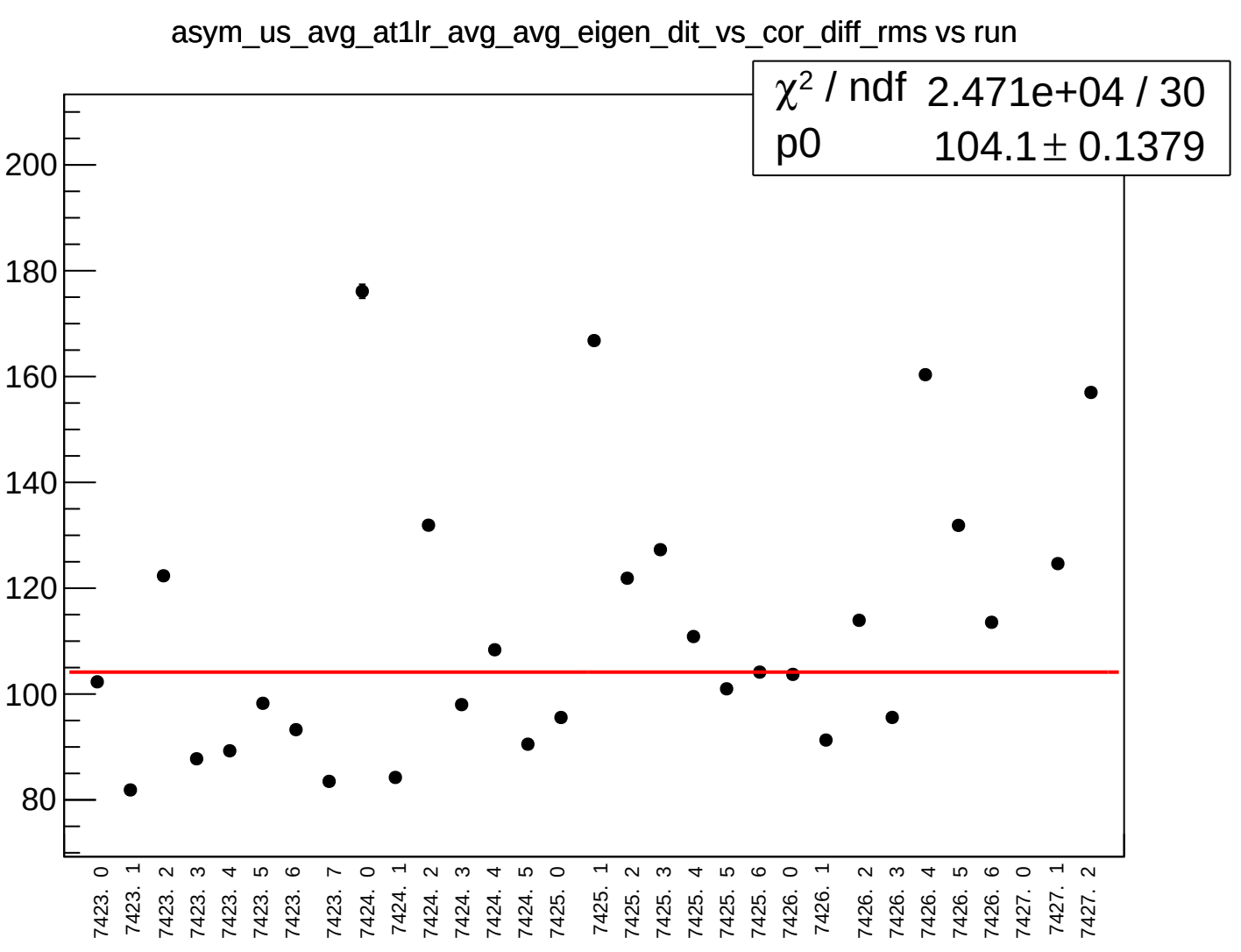

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.75 / 30
p0 0.1239 ± 0.195
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 40.59
Std Dev 0
pull1D
Entries 31
Mean −0.04438
Std Dev 1.058

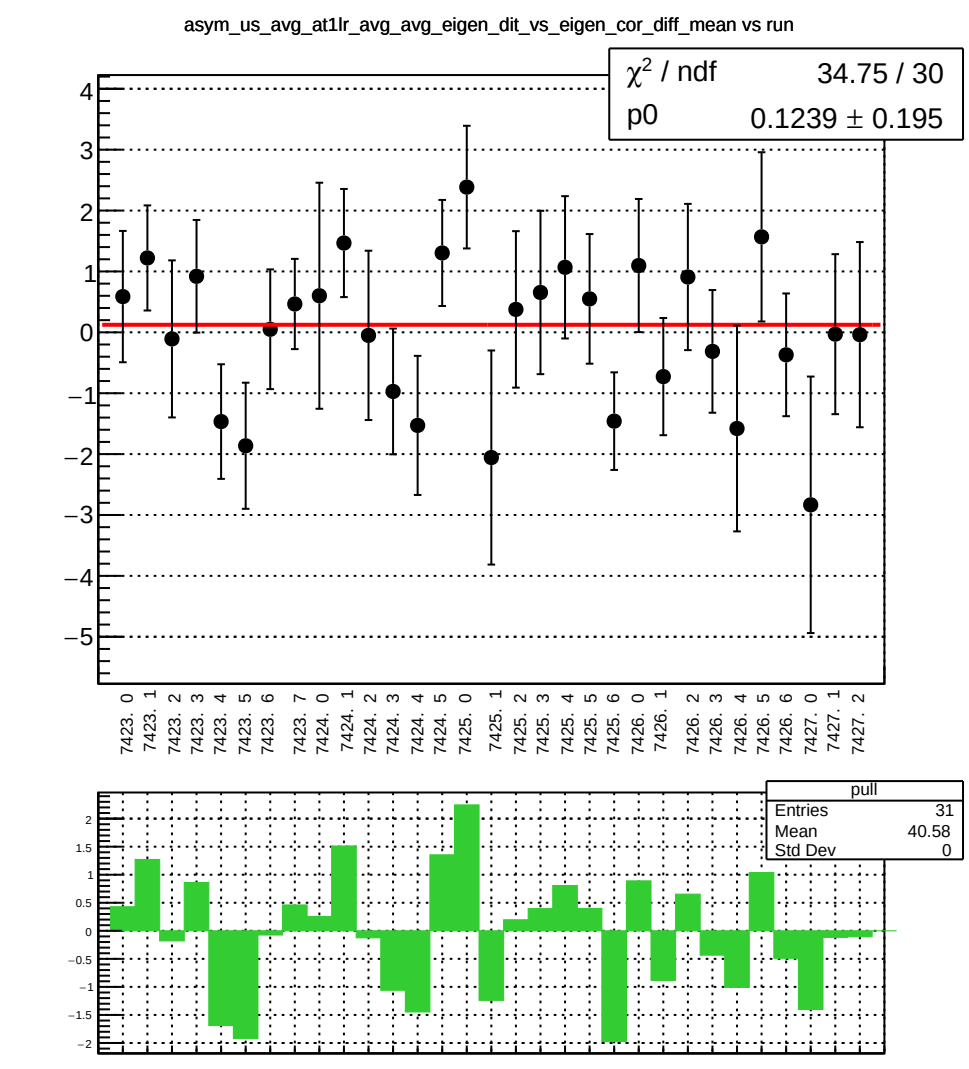

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.471e+04 / 30
p0 104.1 ± 0.1379
200
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

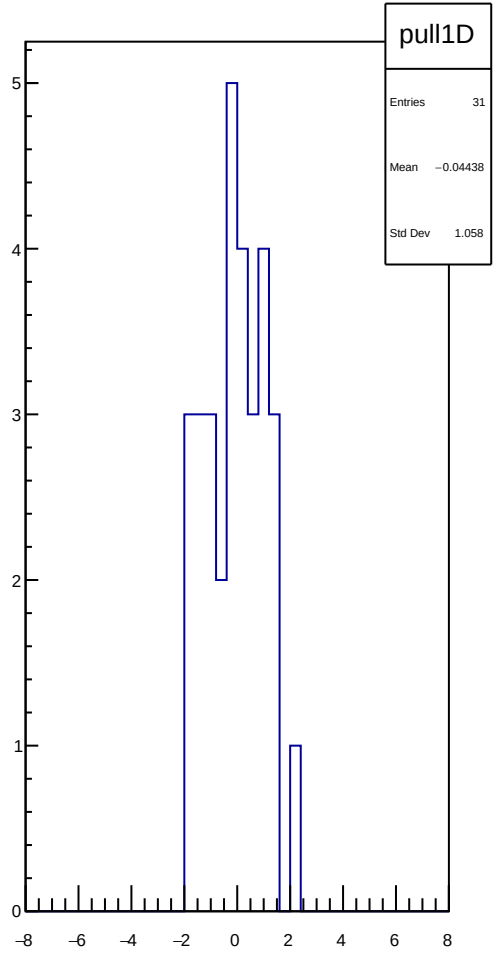

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 23.37 / 30
p0 8.322e−06 ± 5.863e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −79.91
Std Dev 0
pull1D
Entries 31
Mean −0.01794
Std Dev 0.868

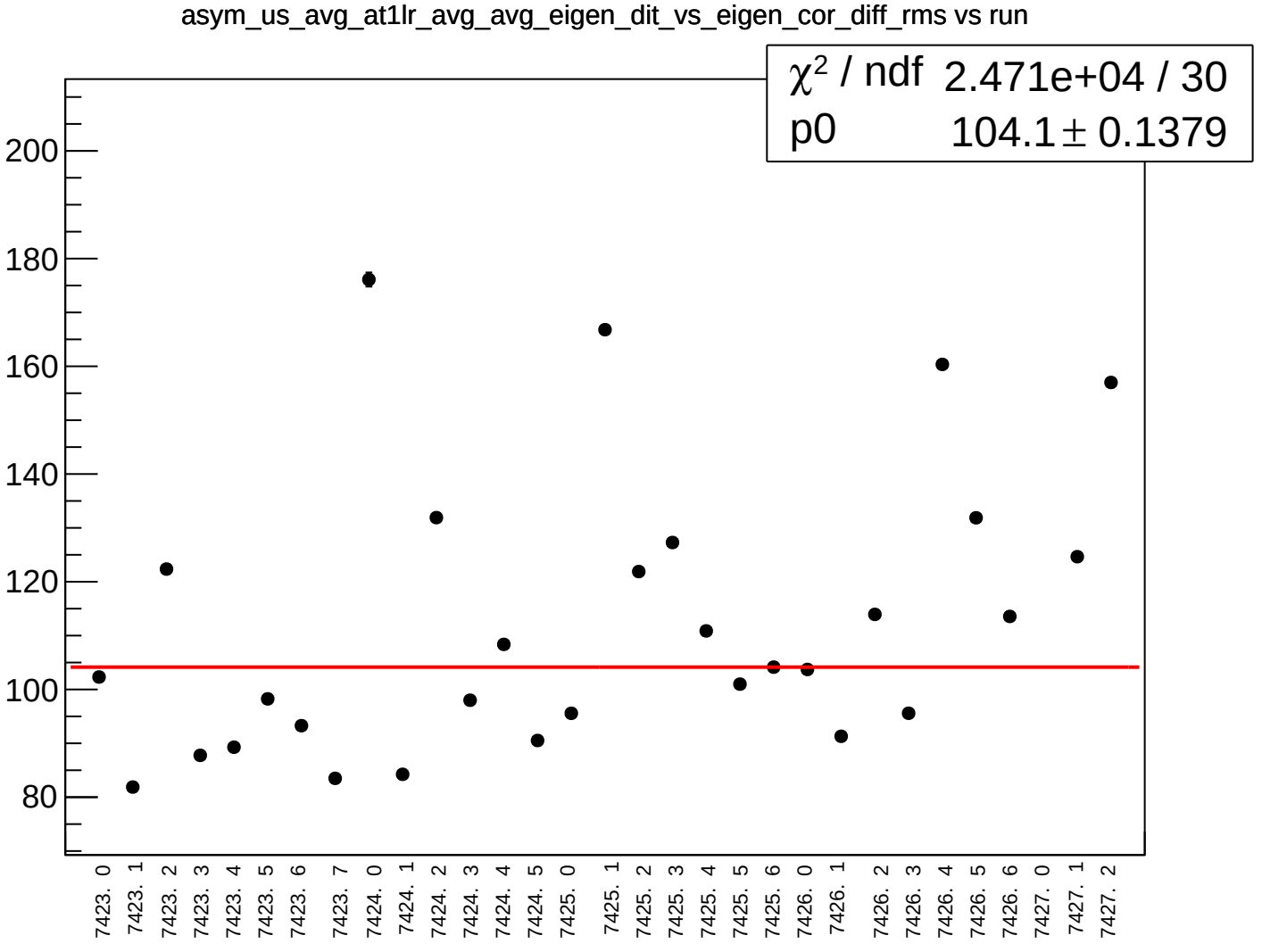

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1015 / 30
p0 0.003196 ± 4.146e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

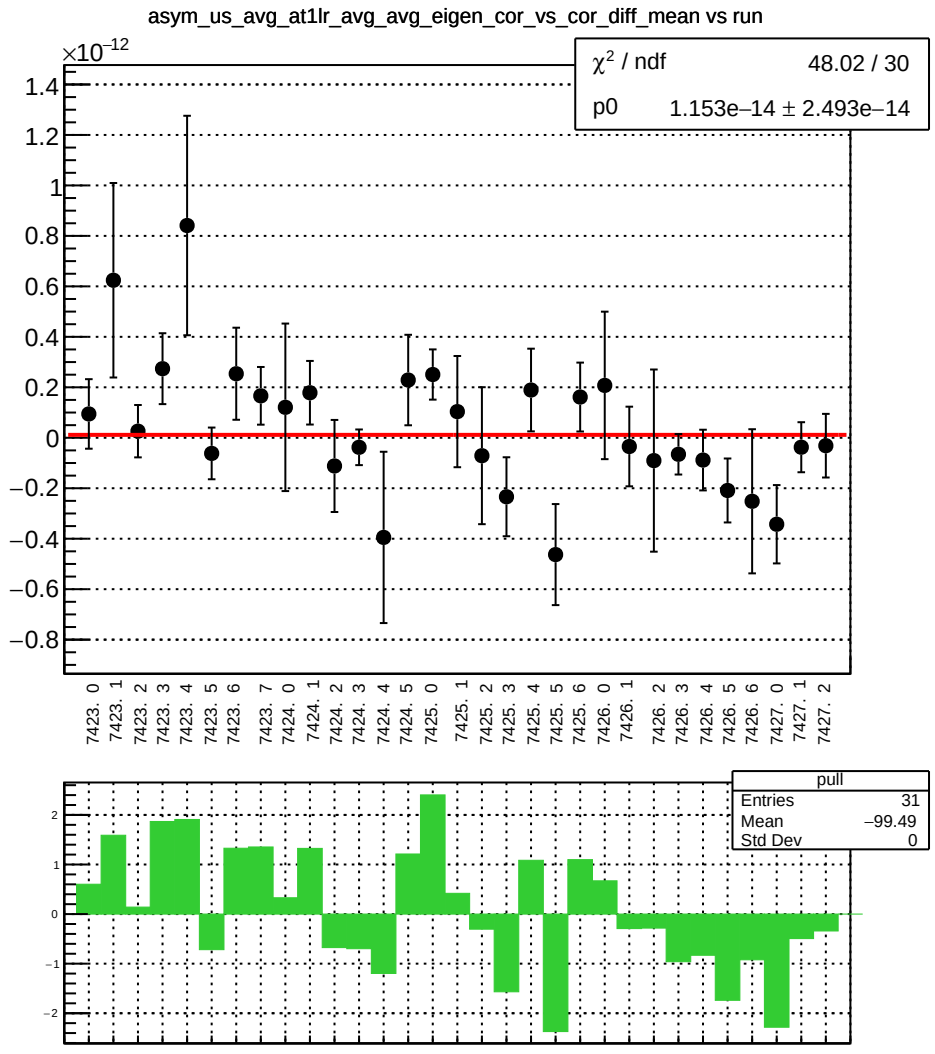

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.75 / 30
p0 0.1239 ± 0.195
pull
Entries 31
Mean 40.58
Std Dev 0
pull1D
Entries 31
Mean −0.04438
Std Dev 1.058

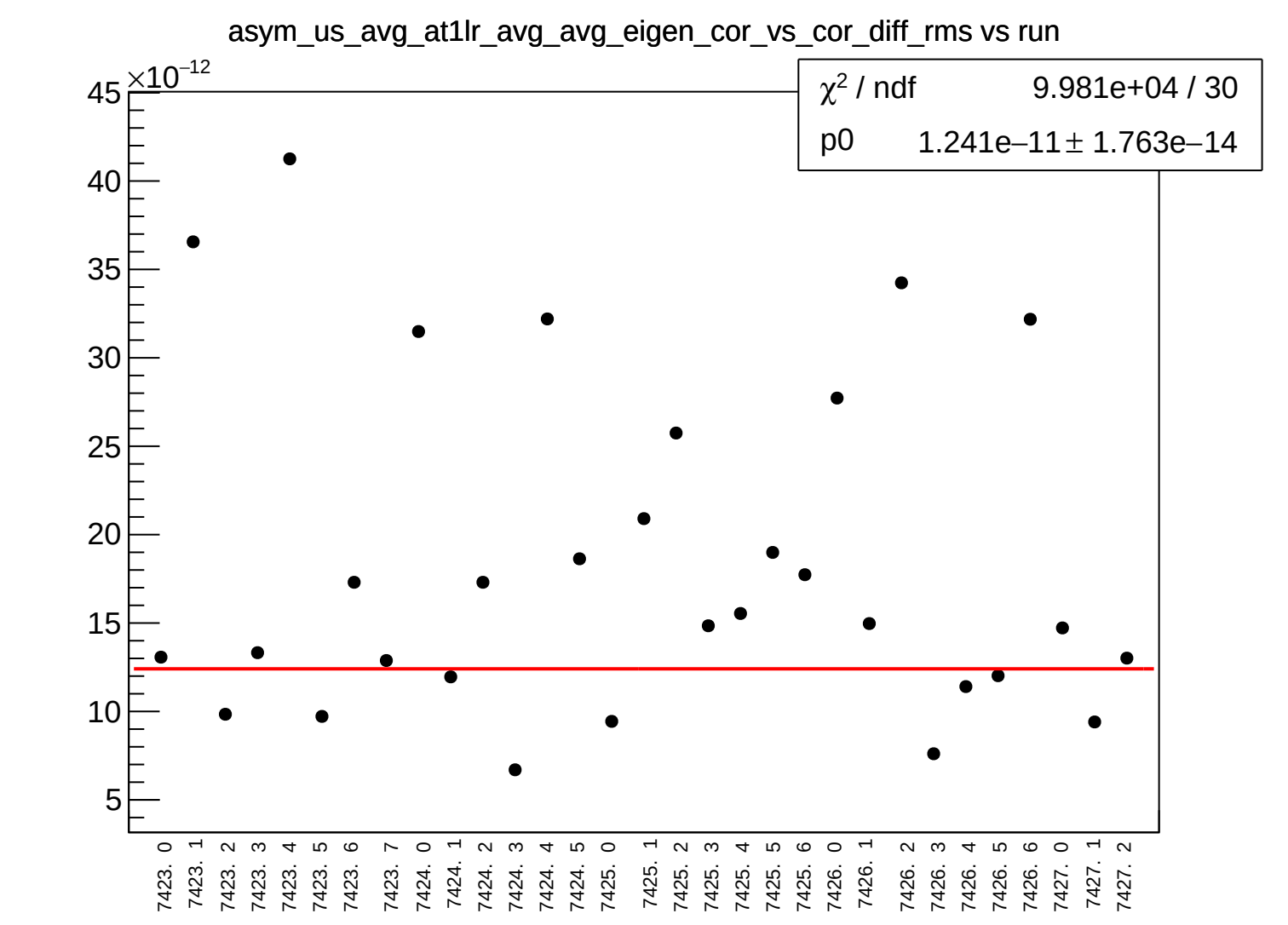

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.471e+04 / 30
p0 104.1 ± 0.1379
200
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

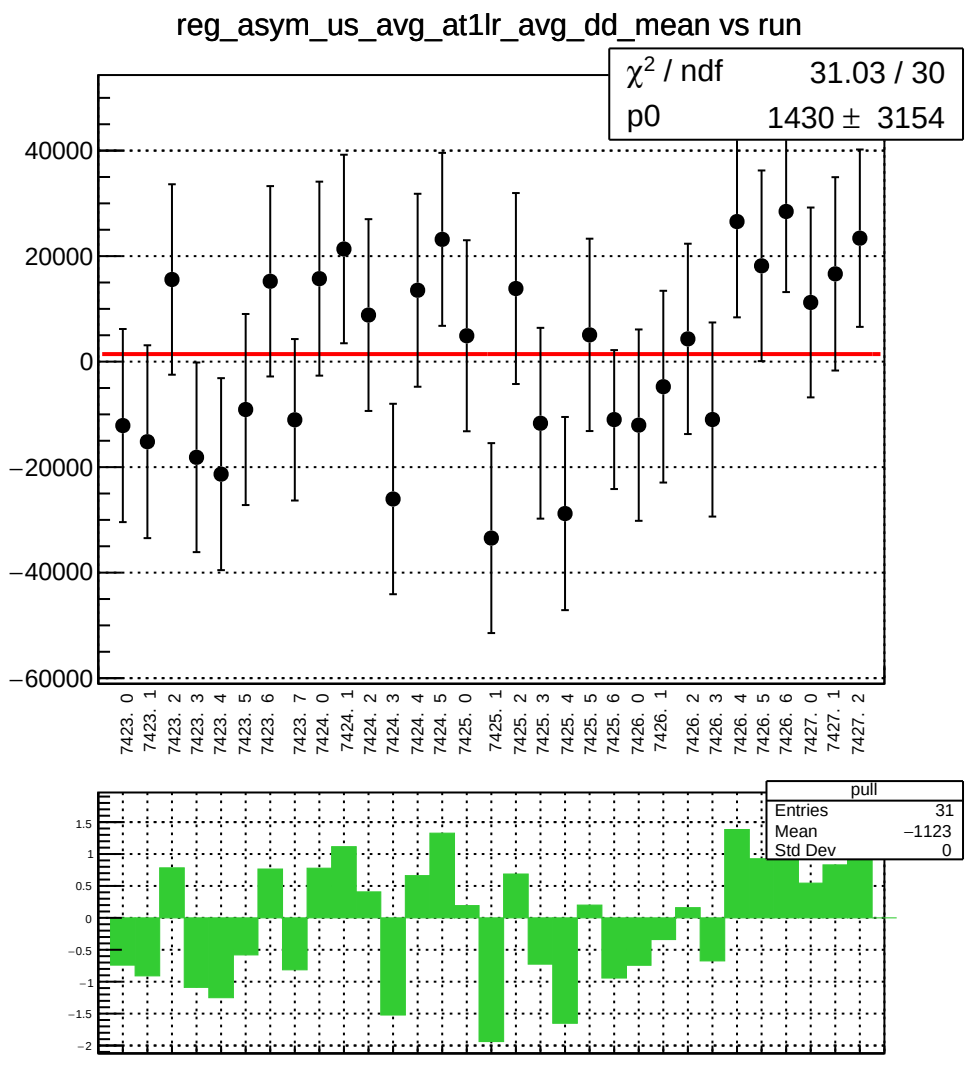

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.75 / 30
p0 0.1239 ± 0.195
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 40.58
Std Dev 0

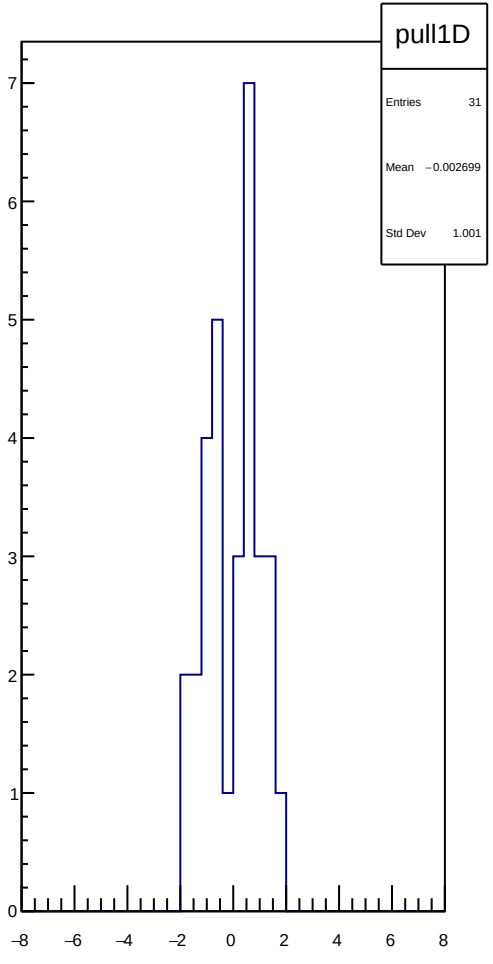

pull1D
Entries 31
Mean −0.04438
Std Dev 1.058

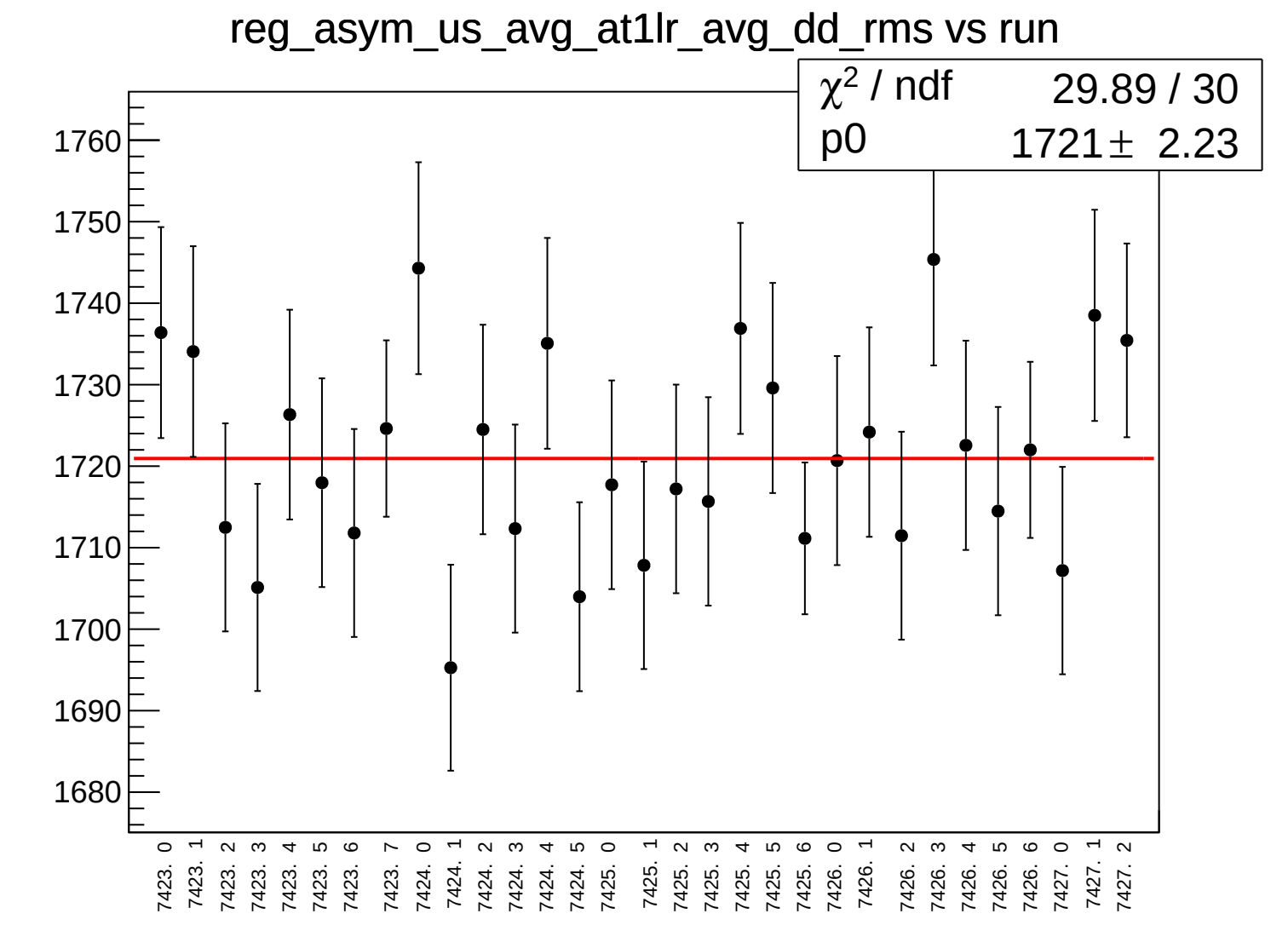

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.471e+04 / 30
p0 104.1 ± 0.1379
200
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

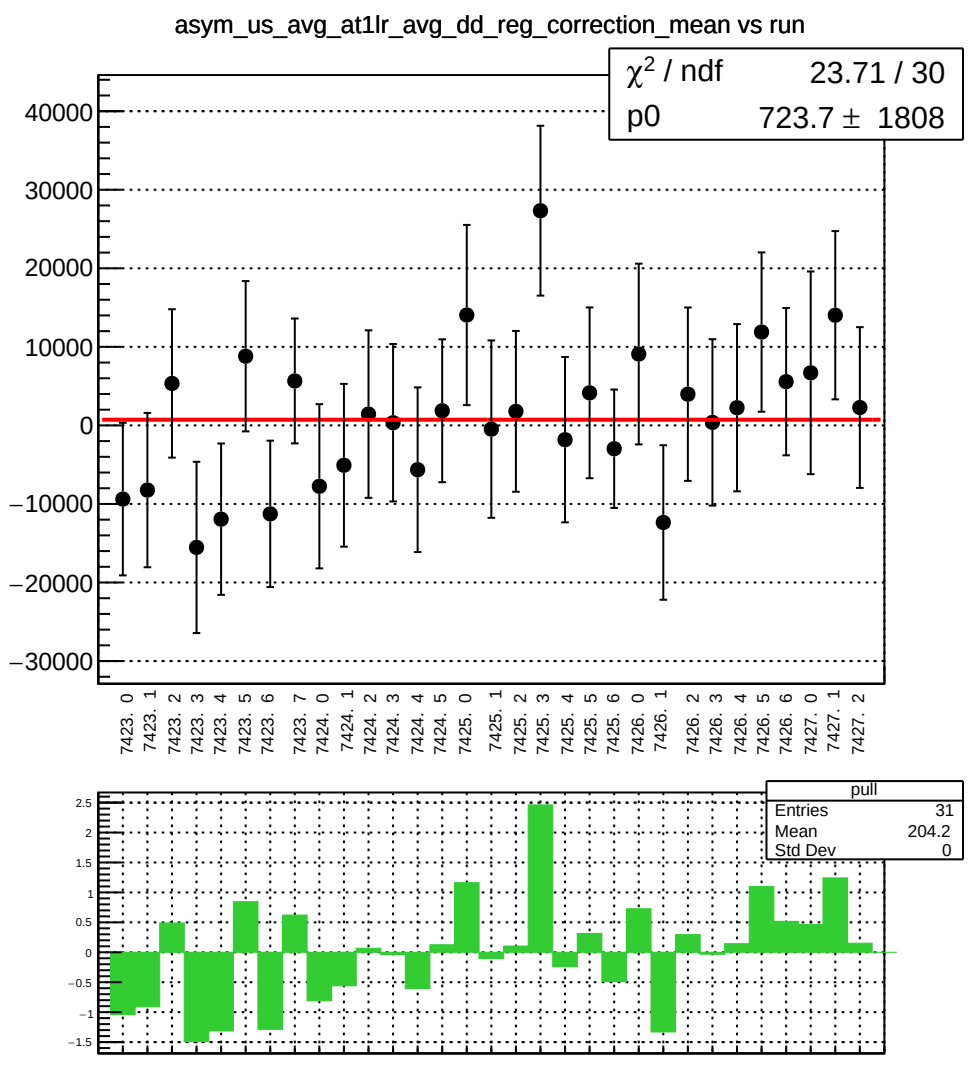

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.02 / 30
p0 1.153e−14 ± 2.493e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −99.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.0535
Std Dev 1.243
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

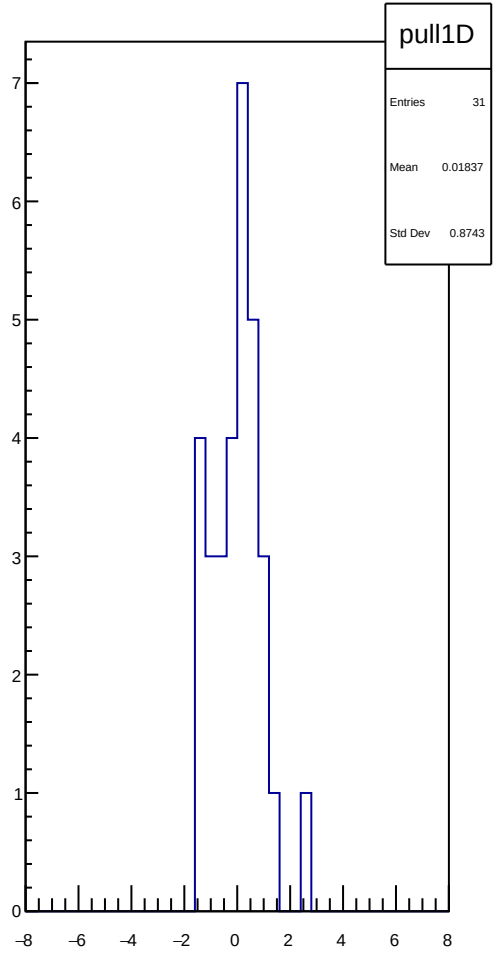

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.981e+04 / 30
p0 1.241e−11 ± 1.763e−14
45
40
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

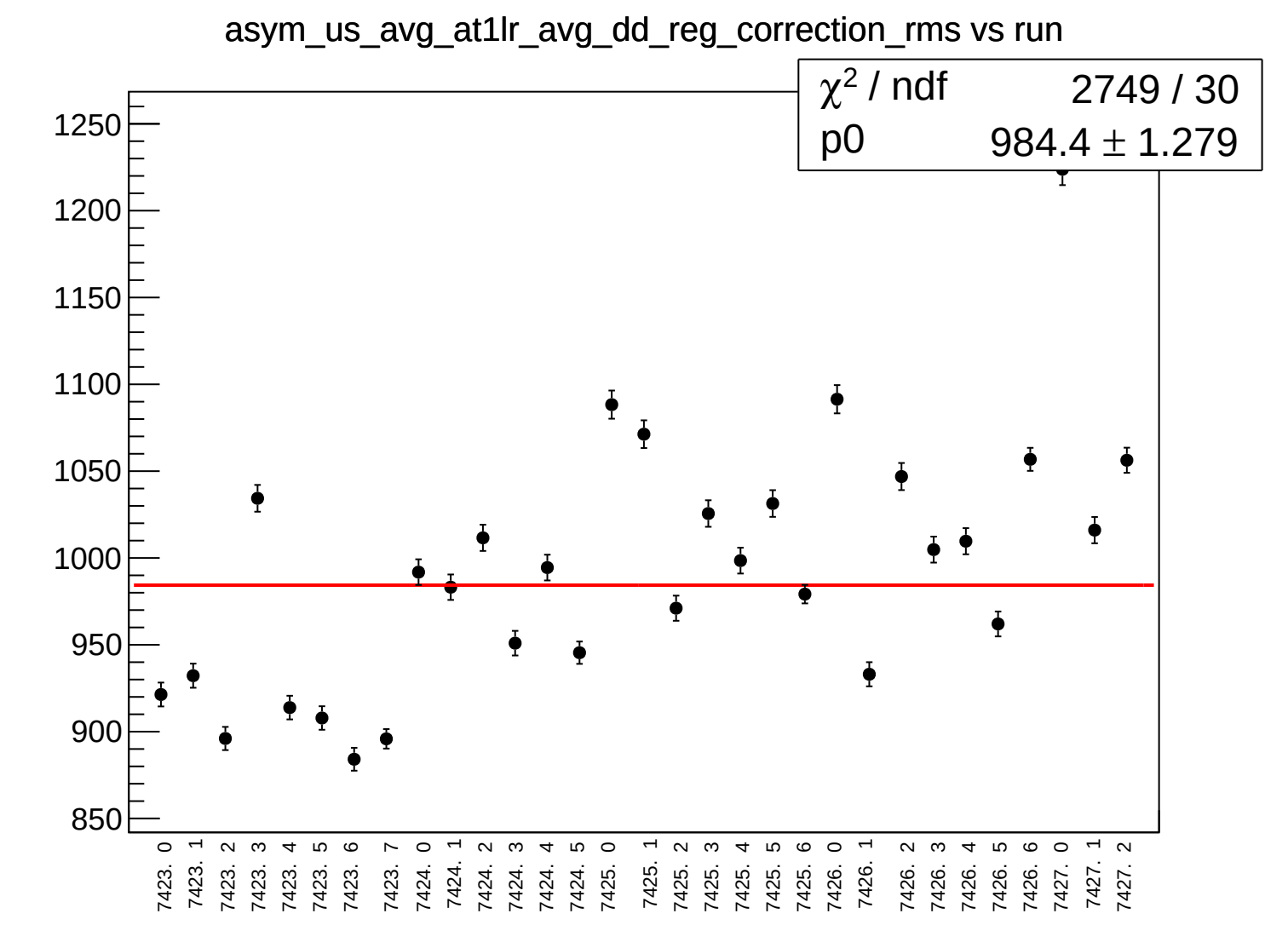

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 31.03 / 30
p0 1430 ± 3154
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1123
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

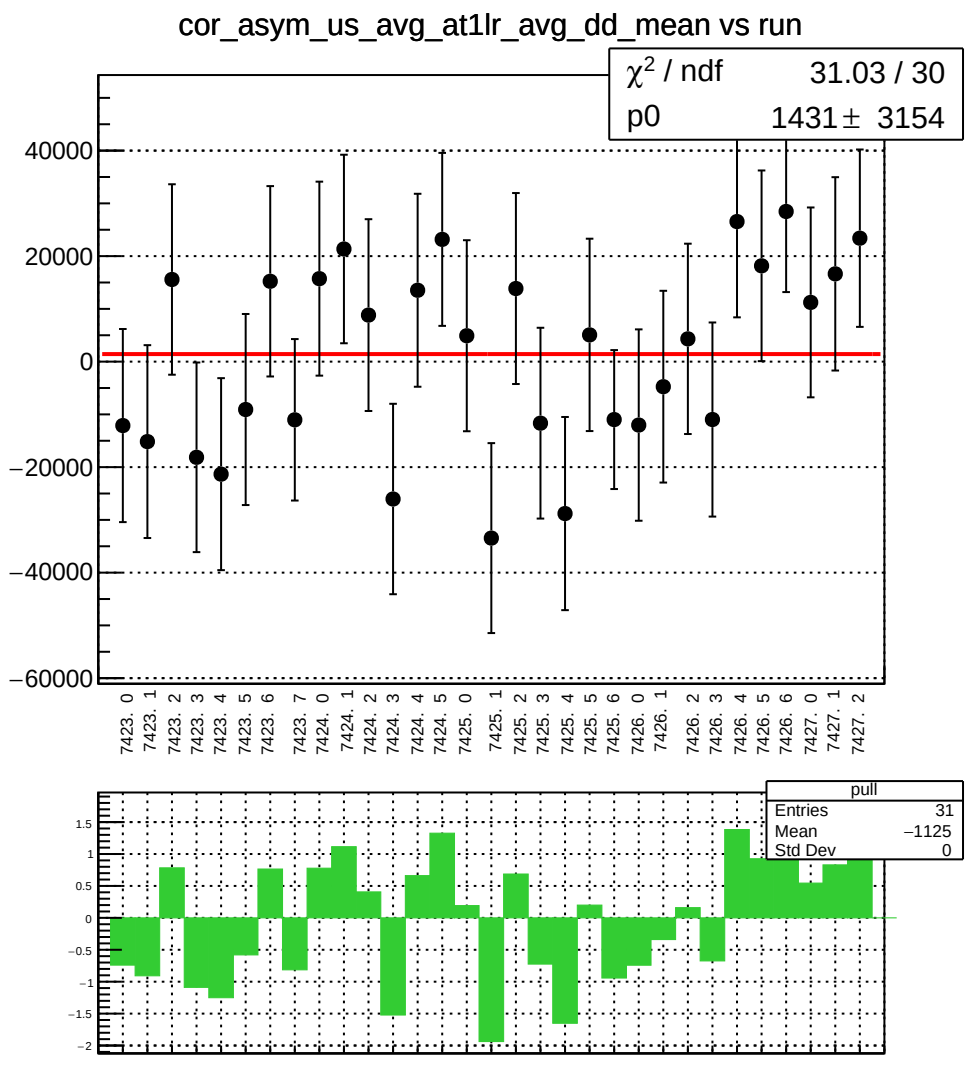

pull1D
Entries 31
Mean −0.002699
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

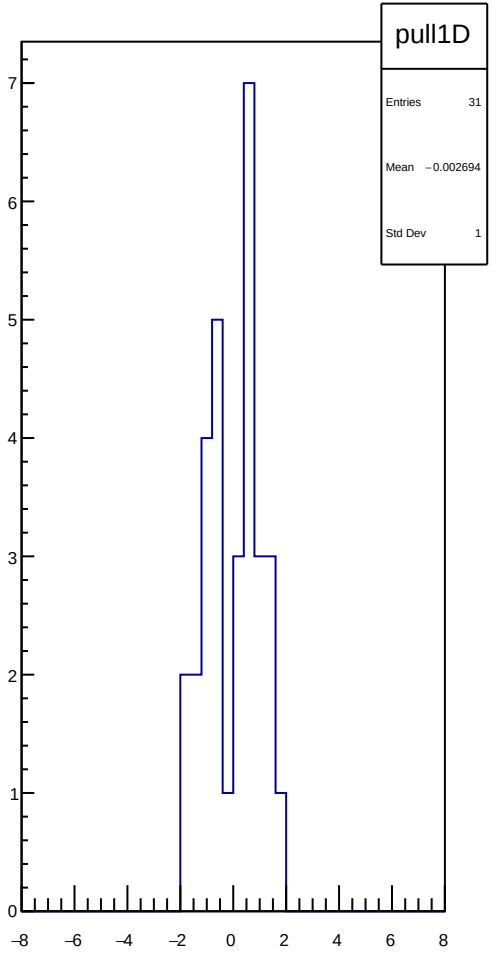

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 29.89 / 30
p0 1721 ± 2.23
1760
1750
1740
1730
1720
1710
1700
1690
1680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

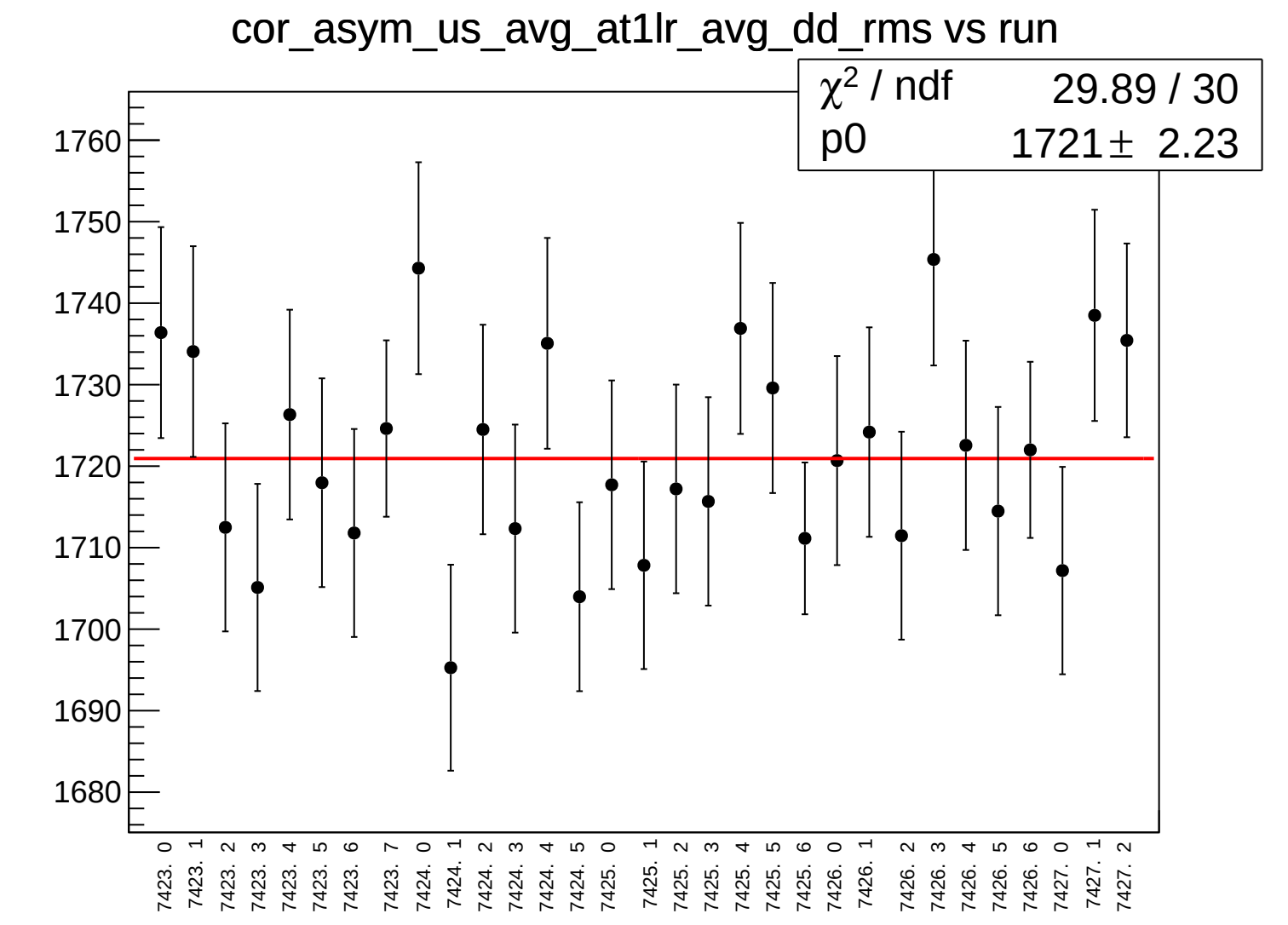

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 23.71 / 30
p0 723.7 ± 1808
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 204.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

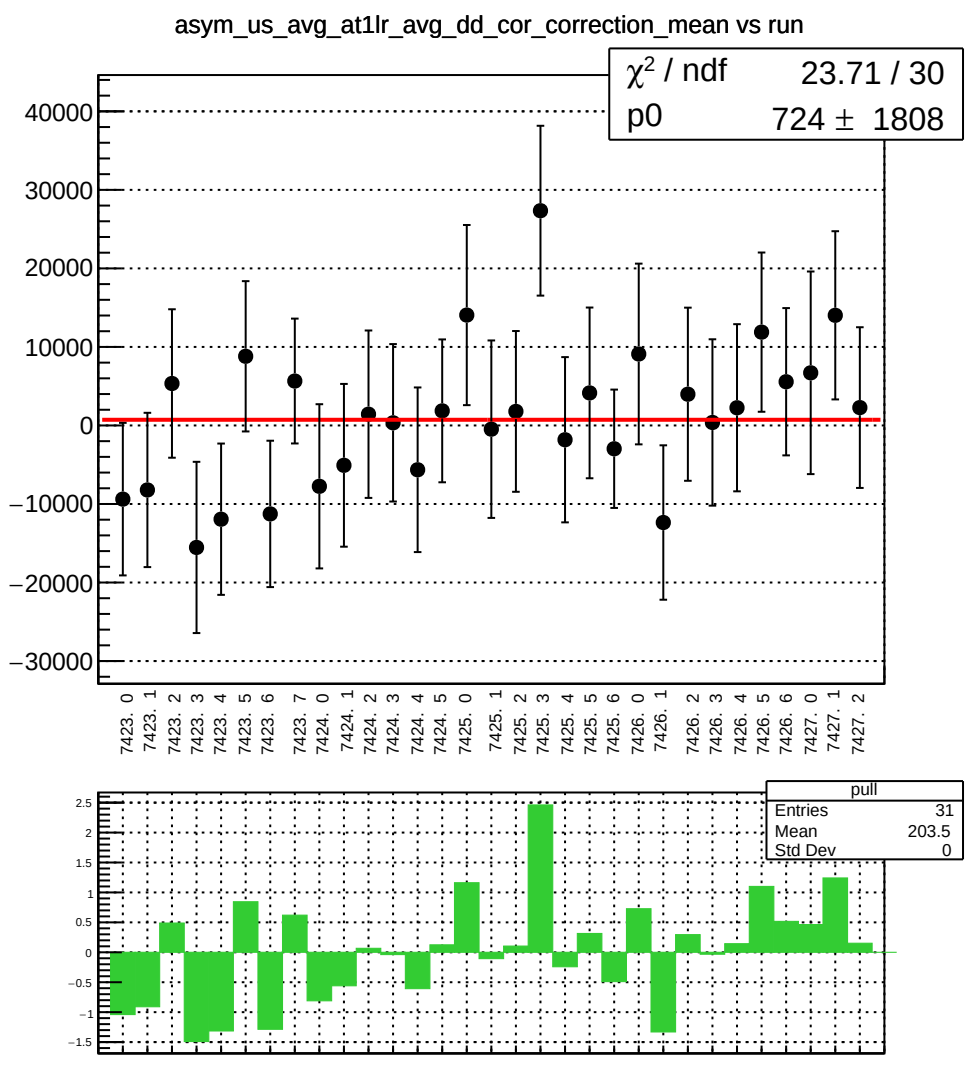

pull1D
Entries 31
Mean 0.01837
Std Dev 0.8743
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

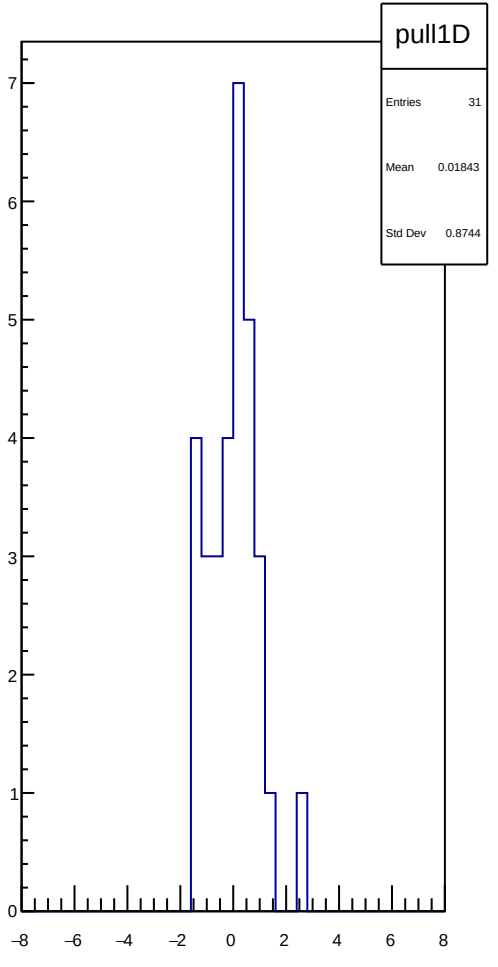

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2749 / 30
p0 984.4 ± 1.279
1250
1200
1150
1100
1050
1000
950
900
850
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

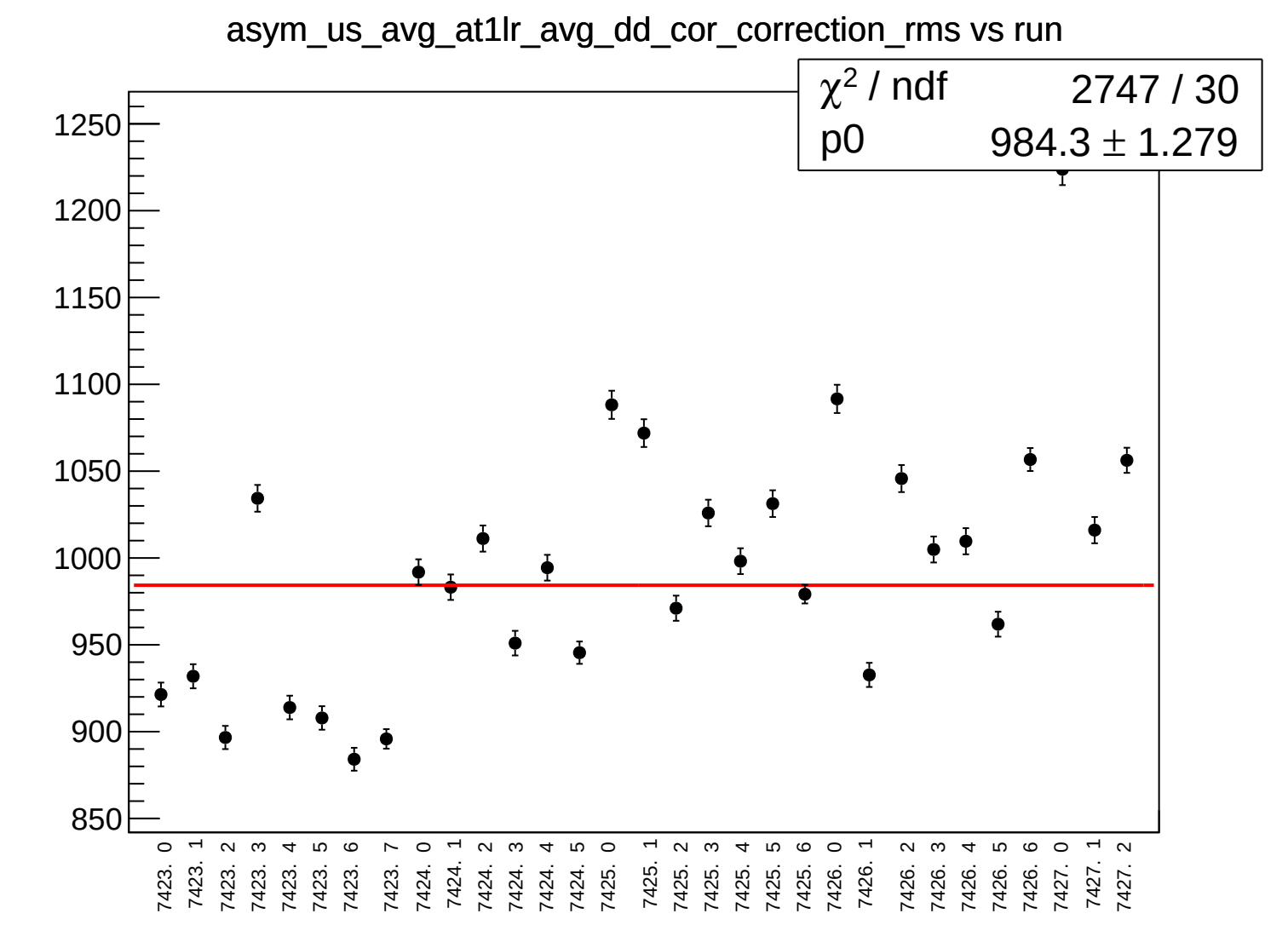

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 31.03 / 30
p0 1431 ± 3154
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1125
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

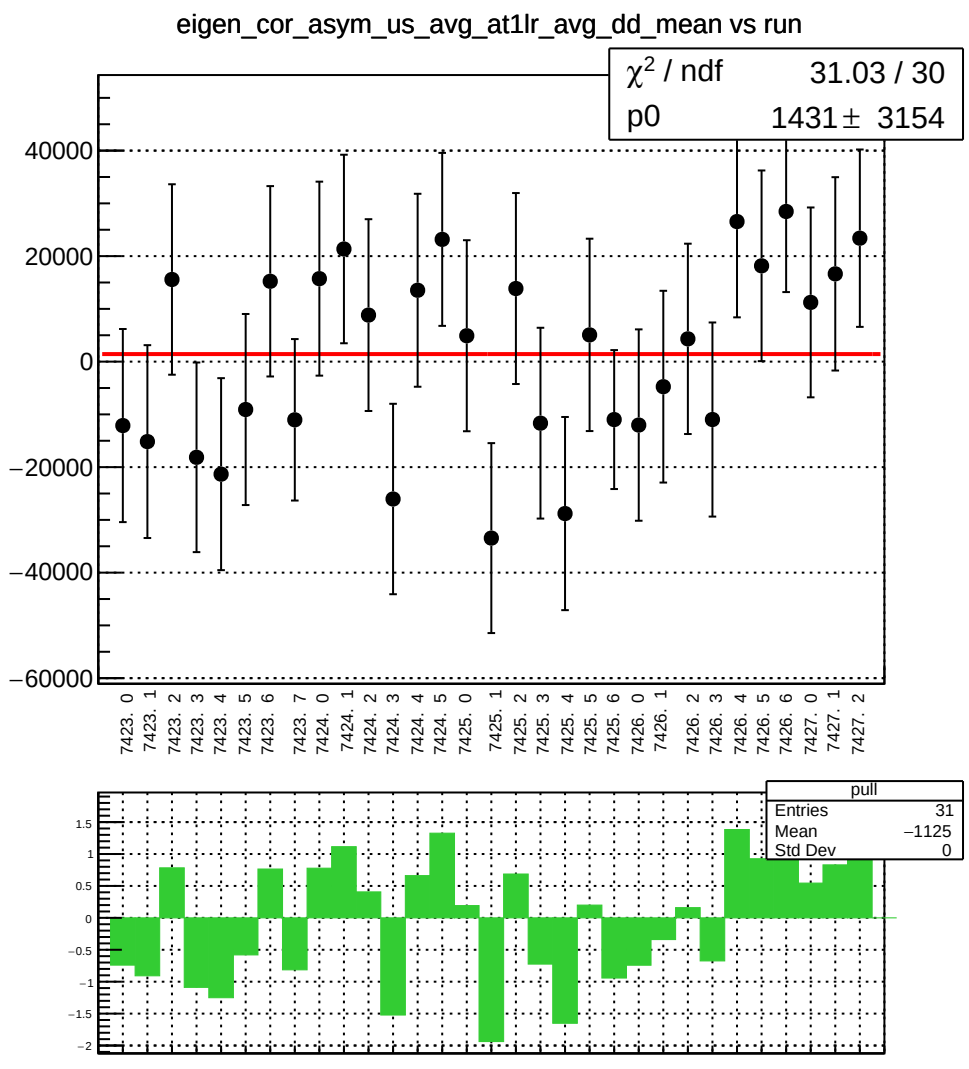

pull1D
Entries 31
Mean −0.002694
Std Dev 1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

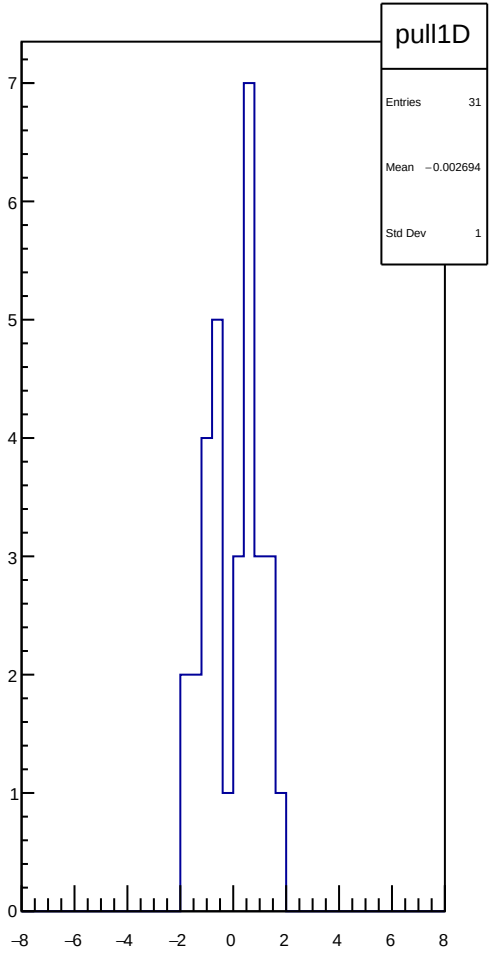

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 29.89 / 30
p0 1721 ± 2.23
1760
1750
1740
1730
1720
1710
1700
1690
1680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

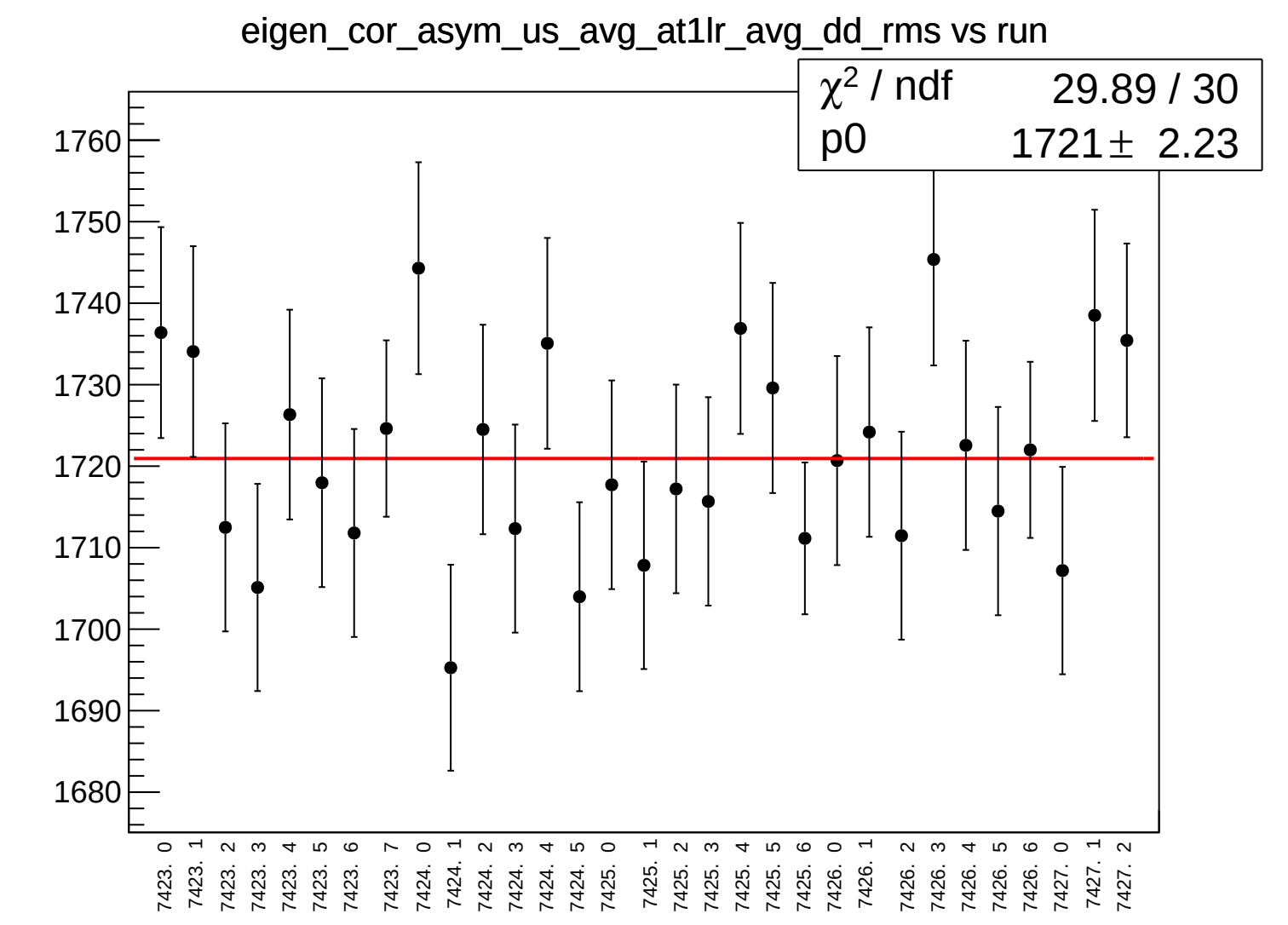

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 23.71 / 30
p0 724 ± 1808
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 203.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

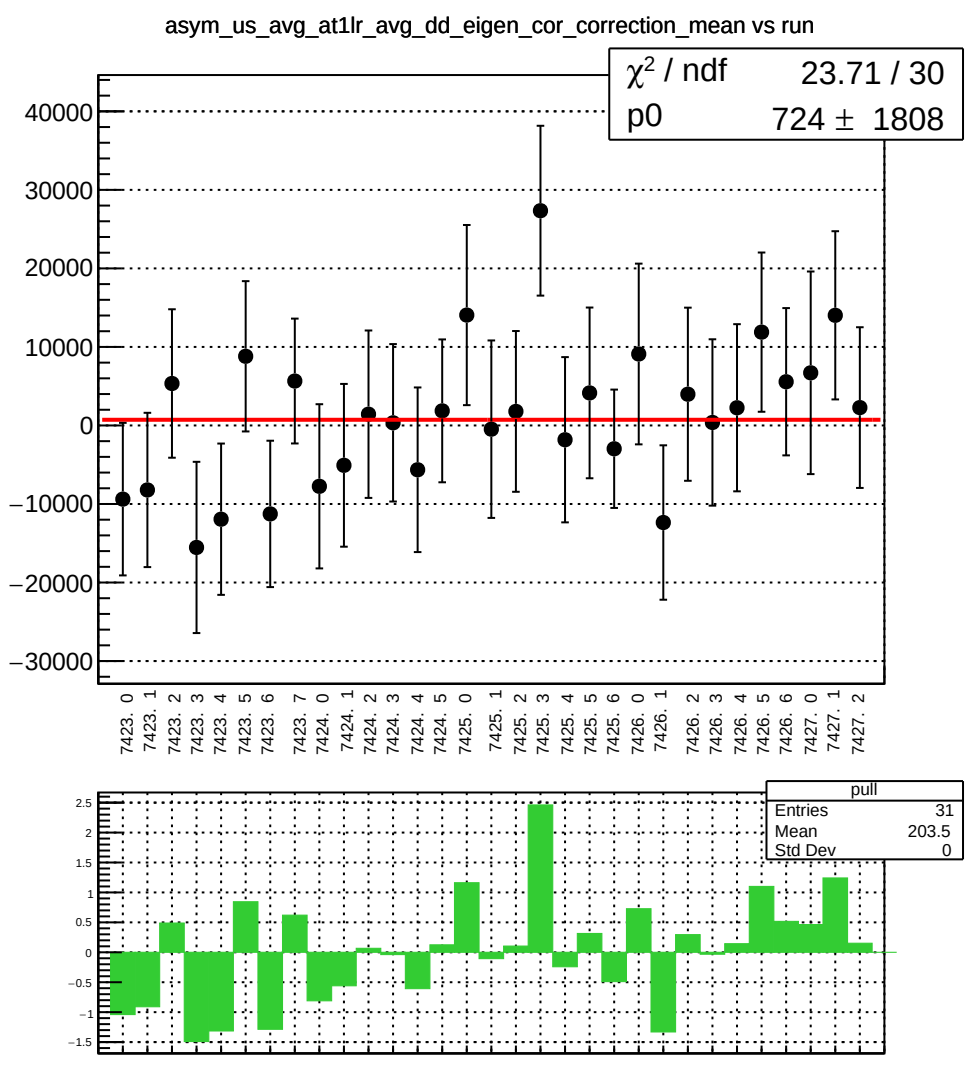

pull1D
Entries 31
Mean 0.01843
Std Dev 0.8744
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

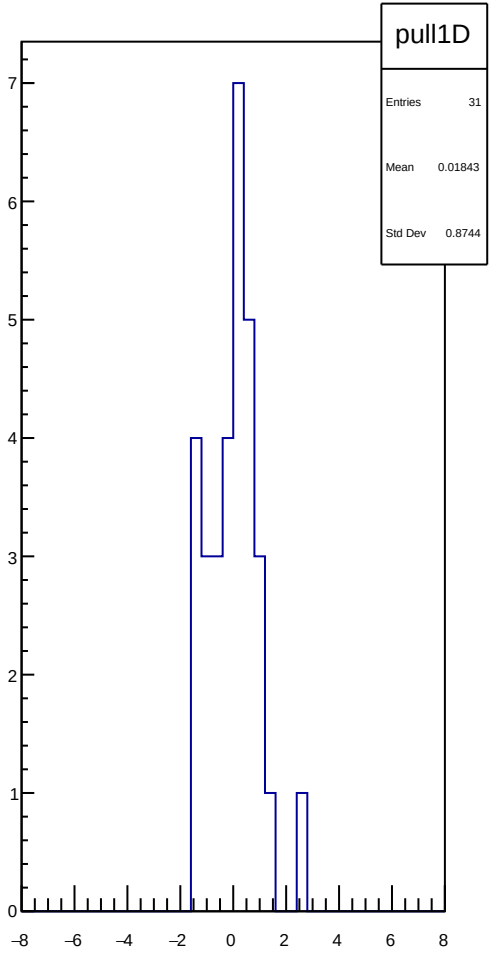

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2747 / 30
p0 984.3 ± 1.279
1250
1200
1150
1100
1050
1000
950
900
850
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

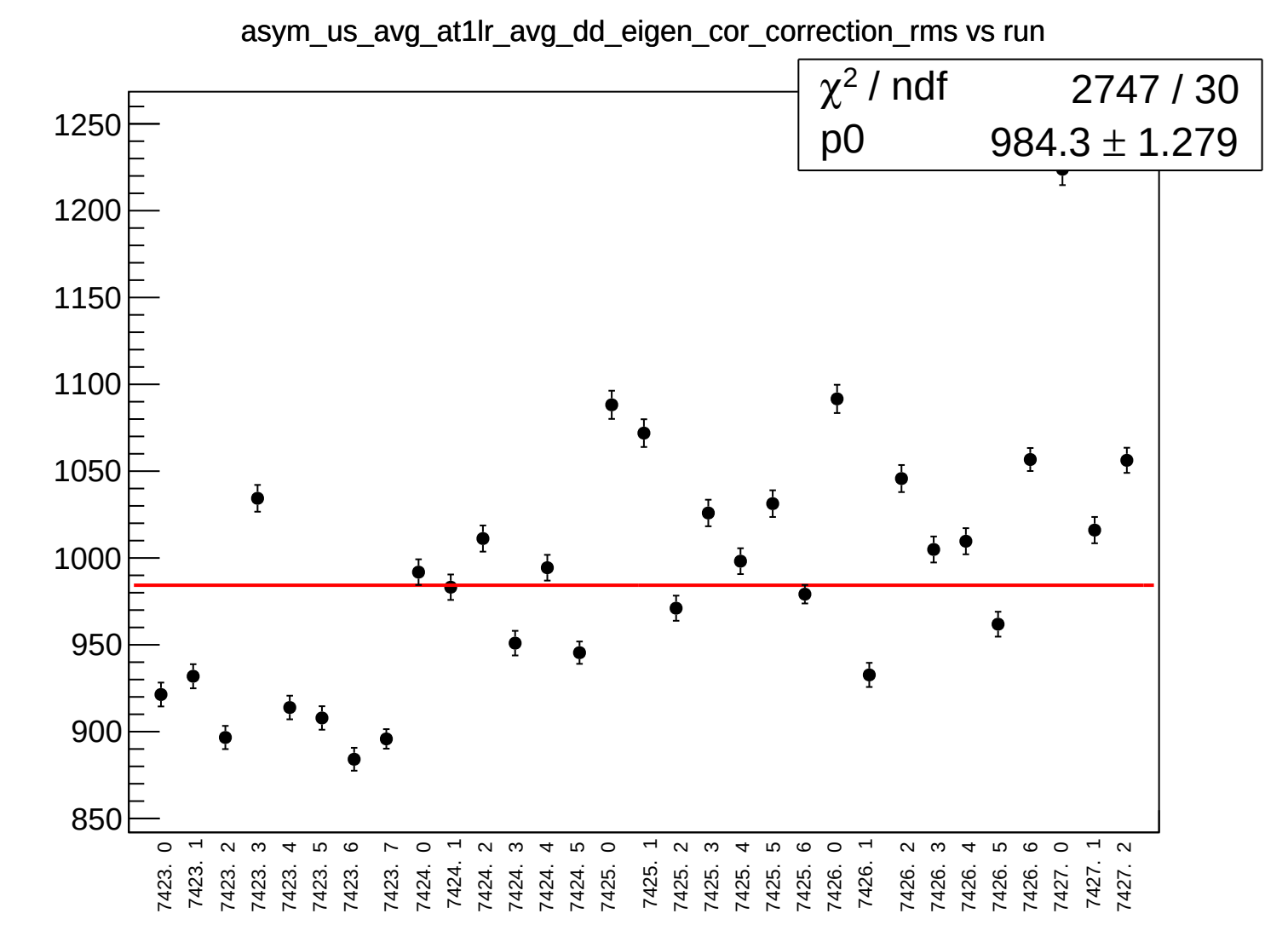

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 31.03 / 30
p0 1431 ± 3154
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1125
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

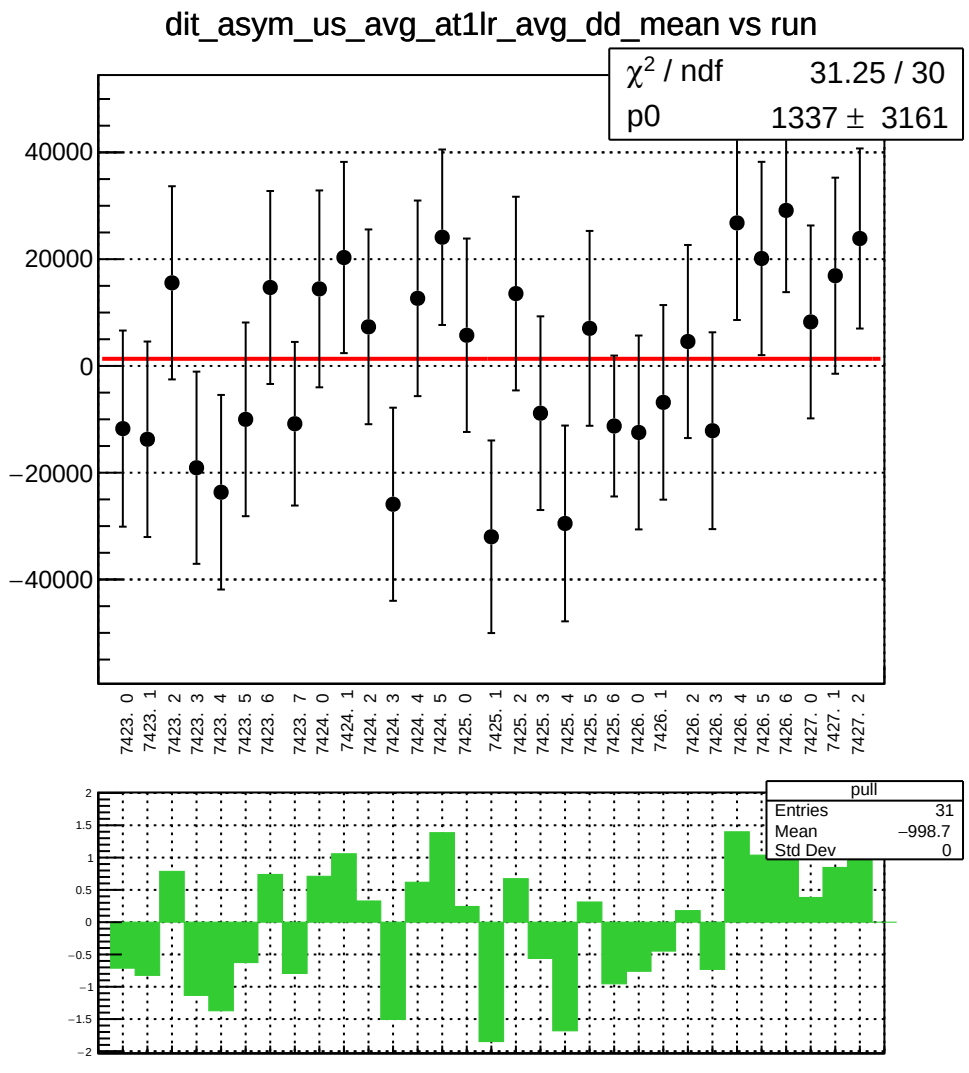

pull1D
Entries 31
Mean −0.002694
Std Dev 1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

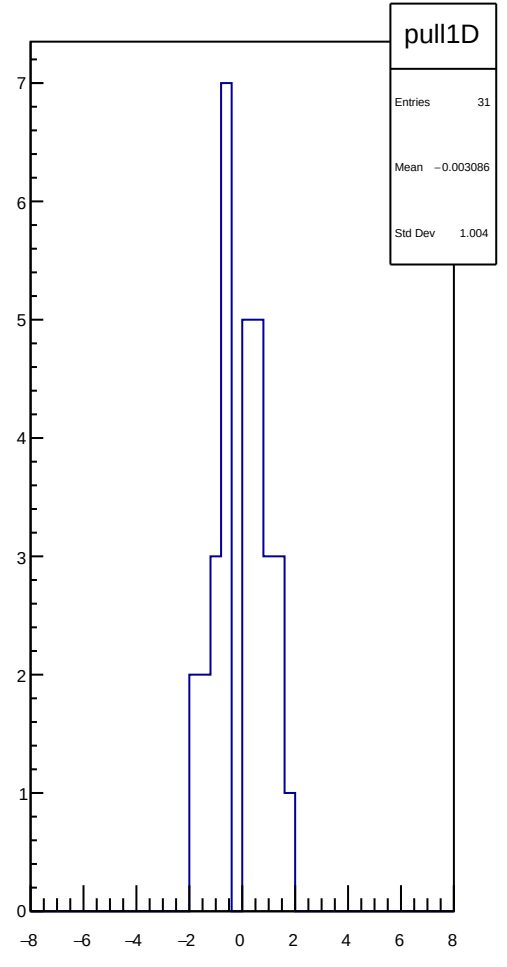

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 29.89 / 30
p0 1721 ± 2.23
1760
1750
1740
1730
1720
1710
1700
1690
1680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

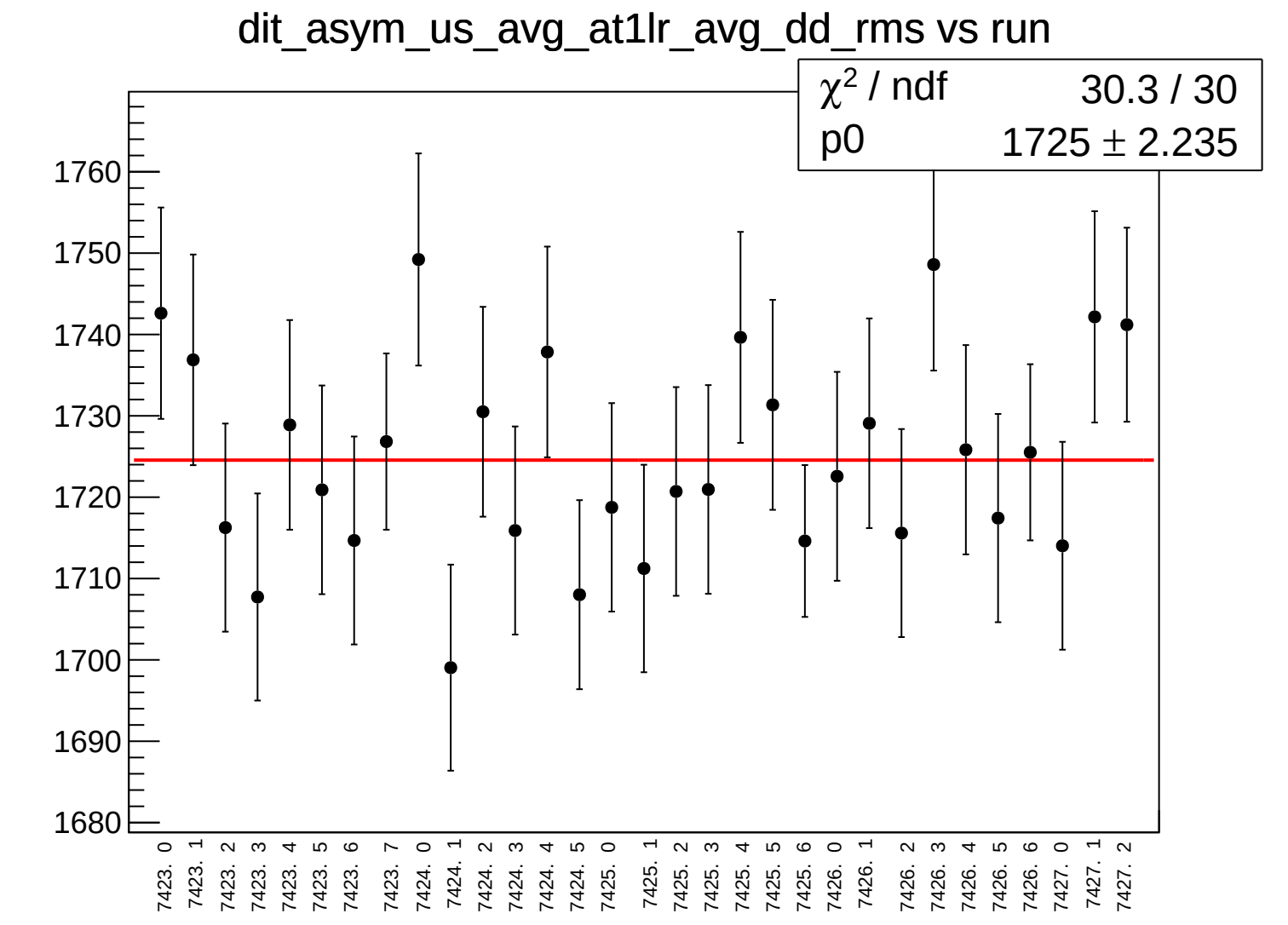

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 23.71 / 30
p0 724 ± 1808
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 203.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

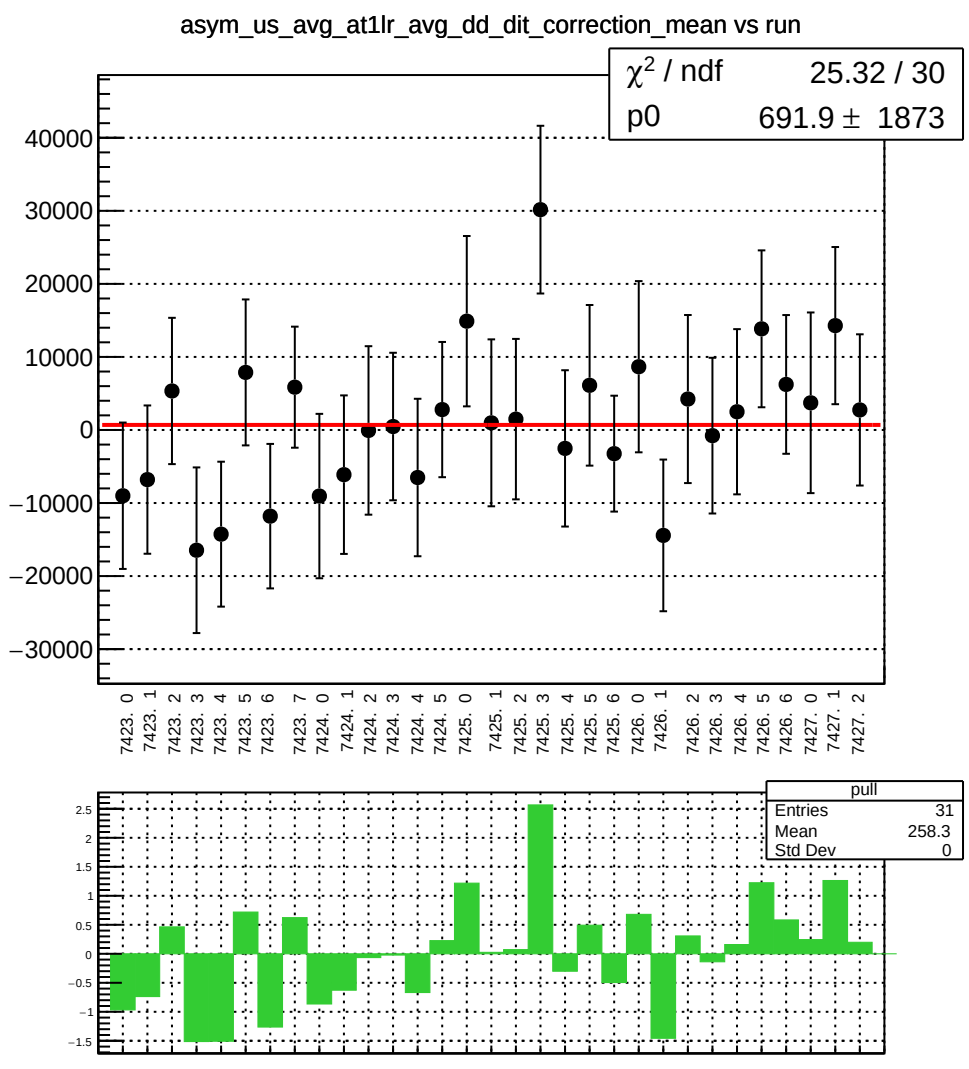

pull1D
Entries 31
Mean 0.01843
Std Dev 0.8744
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

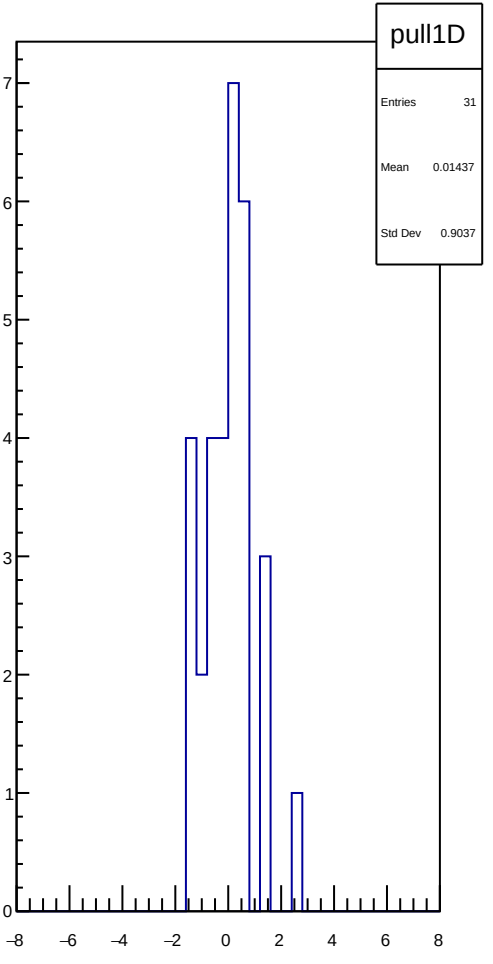

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2747 / 30
p0 984.3 ± 1.279
1250
1200
1150
1100
1050
1000
950
900
850
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

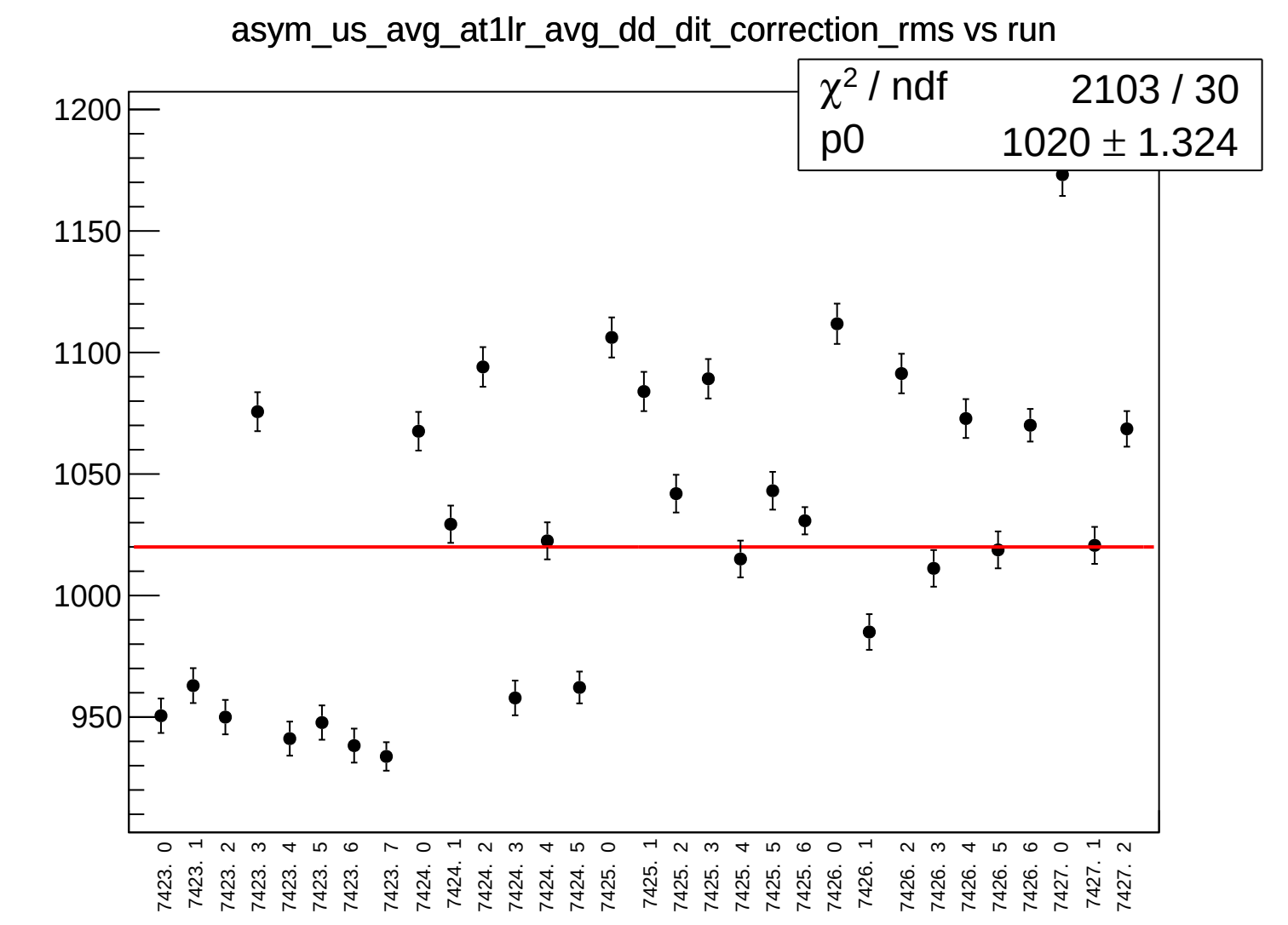

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 31.25 / 30
p0 1337 ± 3161
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −998.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

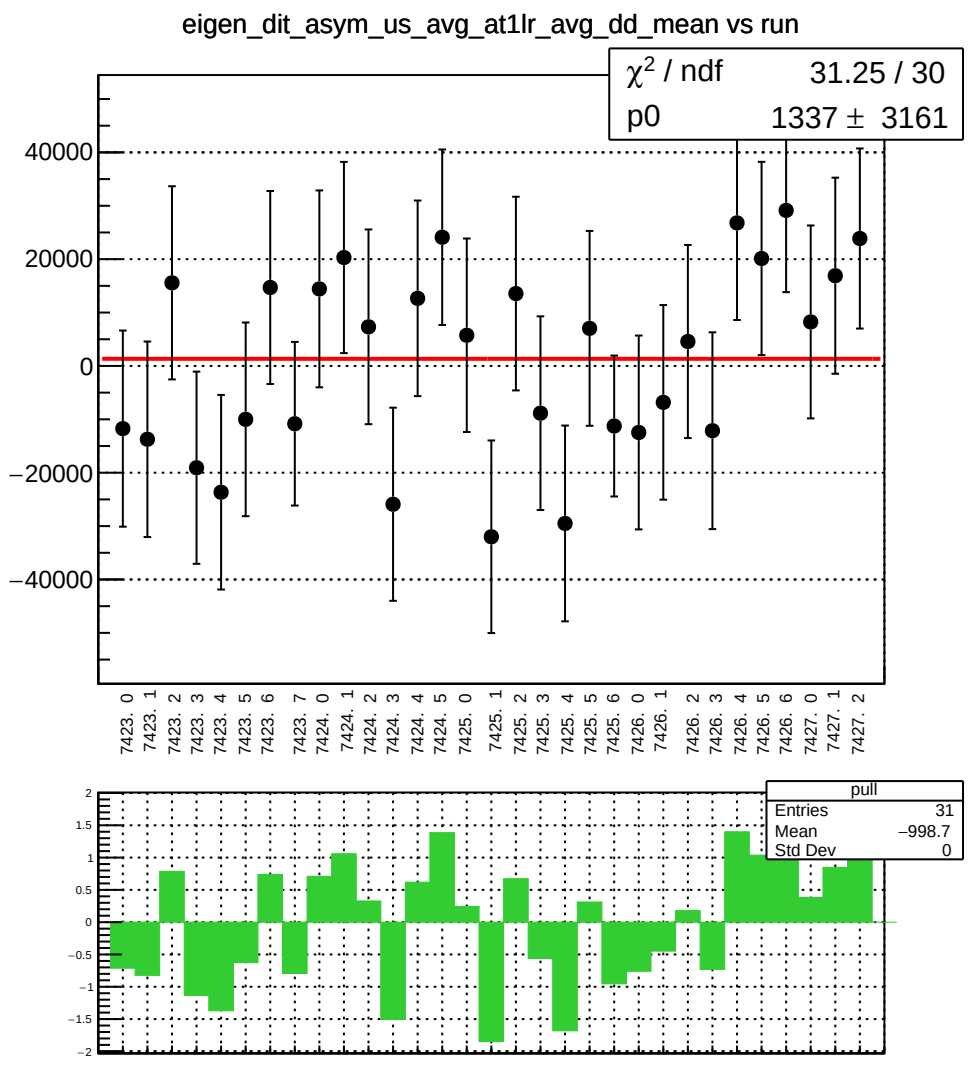

pull1D
Entries 31
Mean −0.003086
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

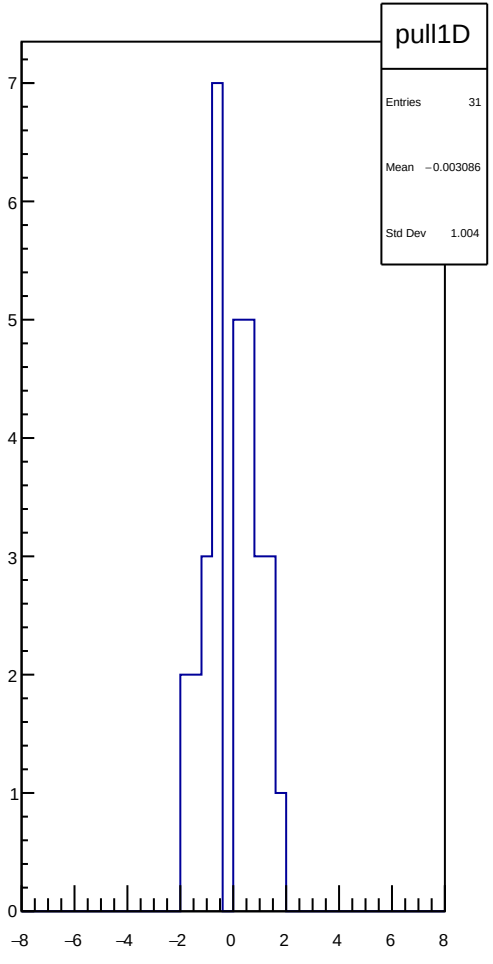

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 30.3 / 30
p0 1725 ± 2.235
1760
1750
1740
1730
1720
1710
1700
1690
1680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

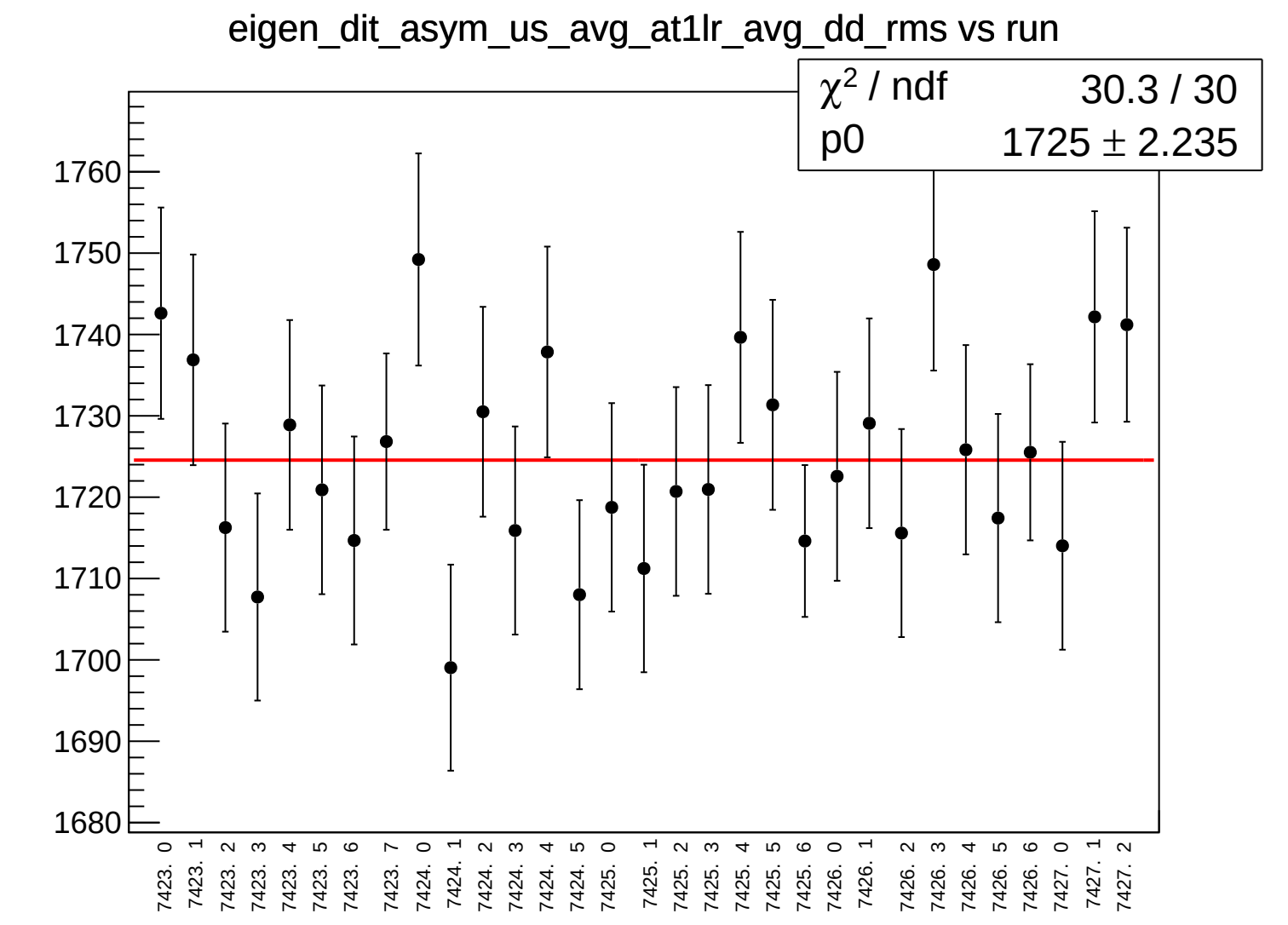

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 25.32 / 30
p0 691.9 ± 1873
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 258.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

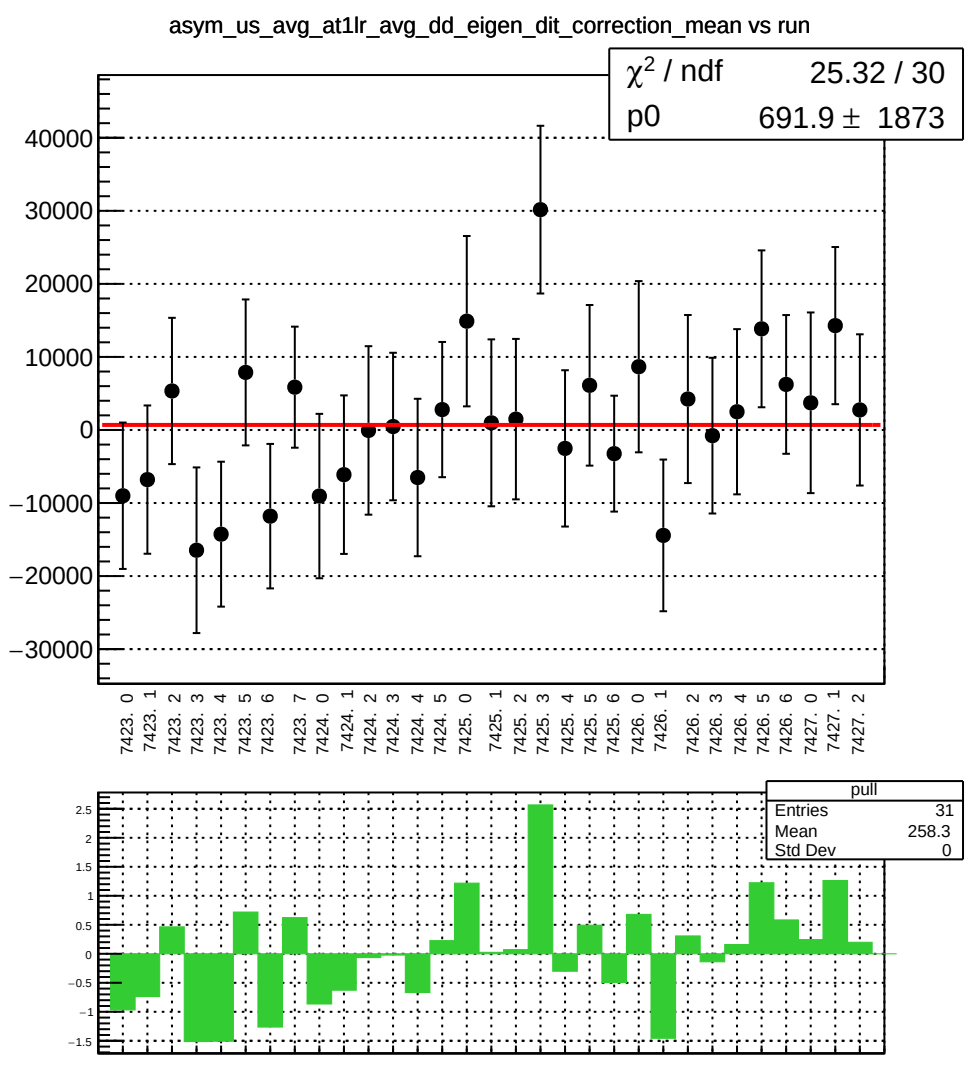

pull1D
Entries 31
Mean 0.01437
Std Dev 0.9037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

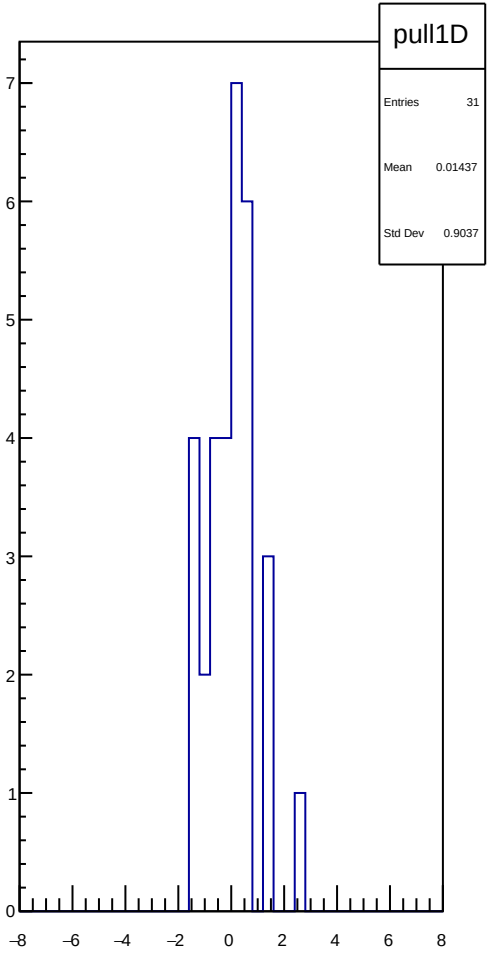

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2103 / 30
p0 1020 ± 1.324
1200
1150
1100
1050
1000
950
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

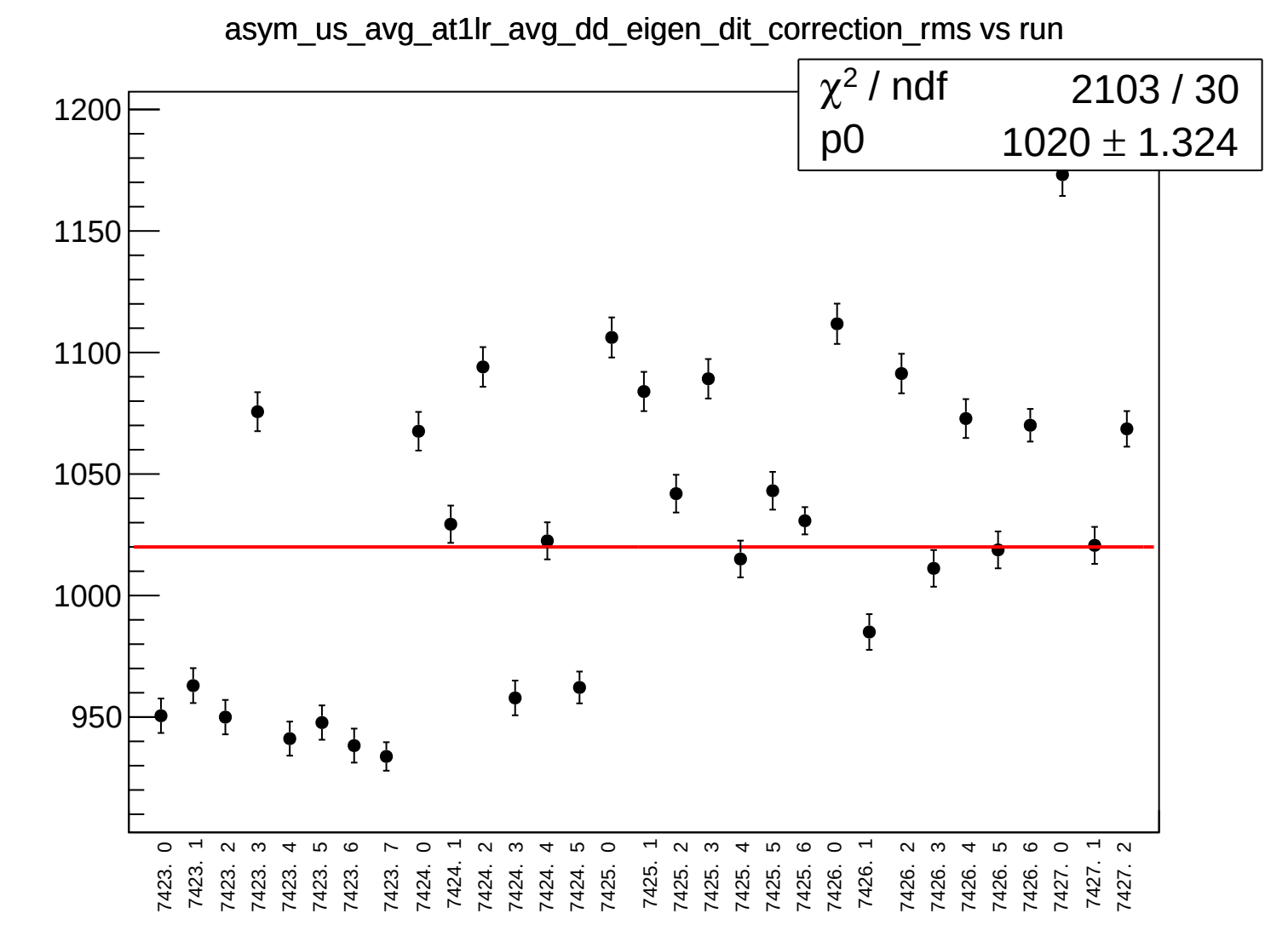

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 31.25 / 30
p0 1337 ± 3161
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −998.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

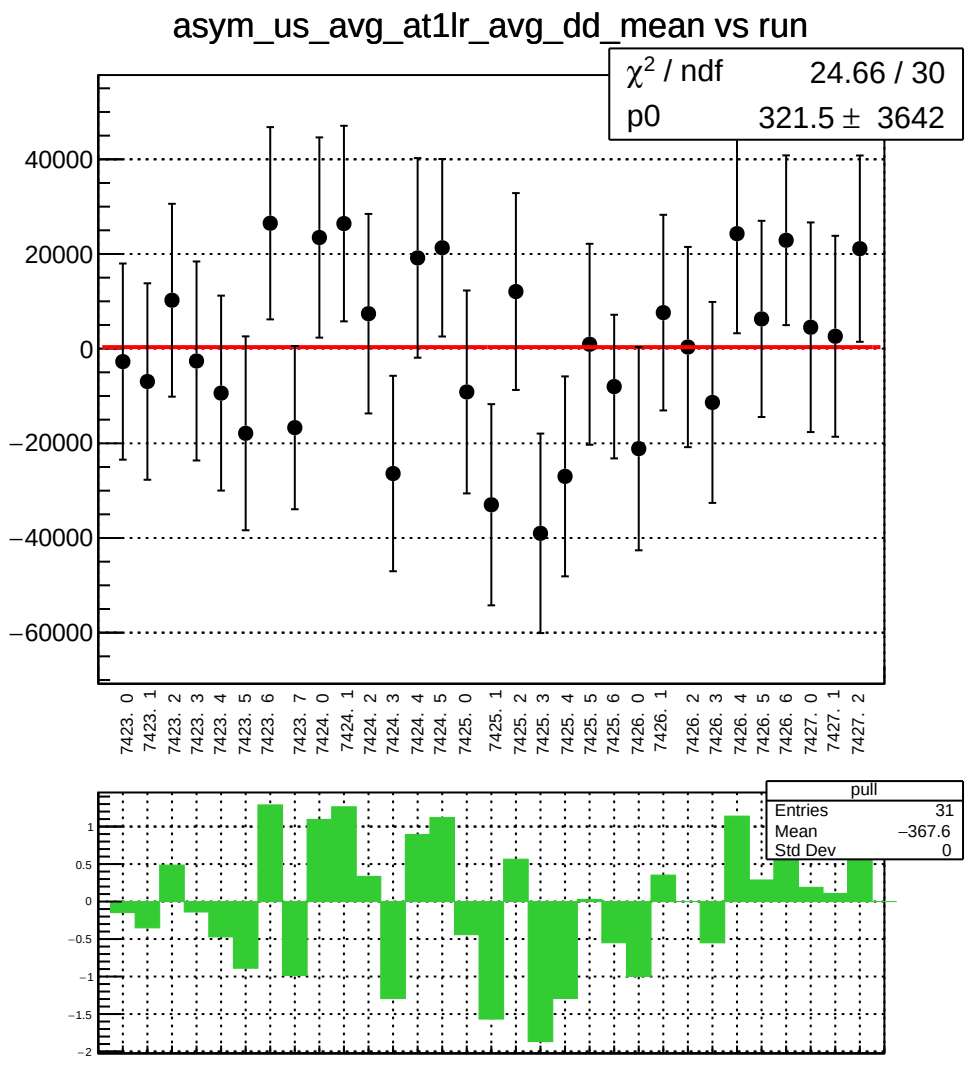

pull1D
Entries 31
Mean −0.003086
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

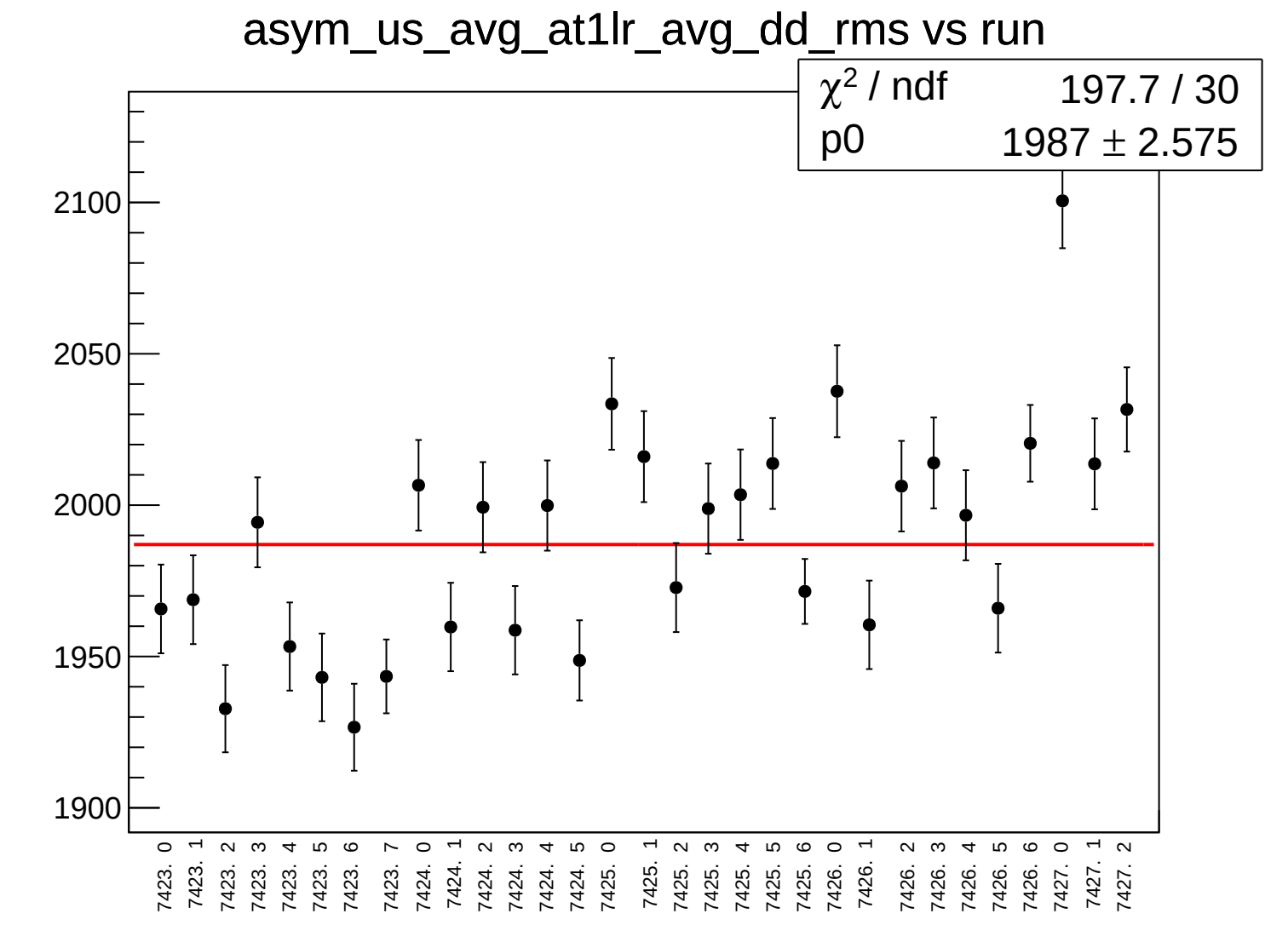

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 30.3 / 30
p0 1725 ± 2.235
1760
1750
1740
1730
1720
1710
1700
1690
1680
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

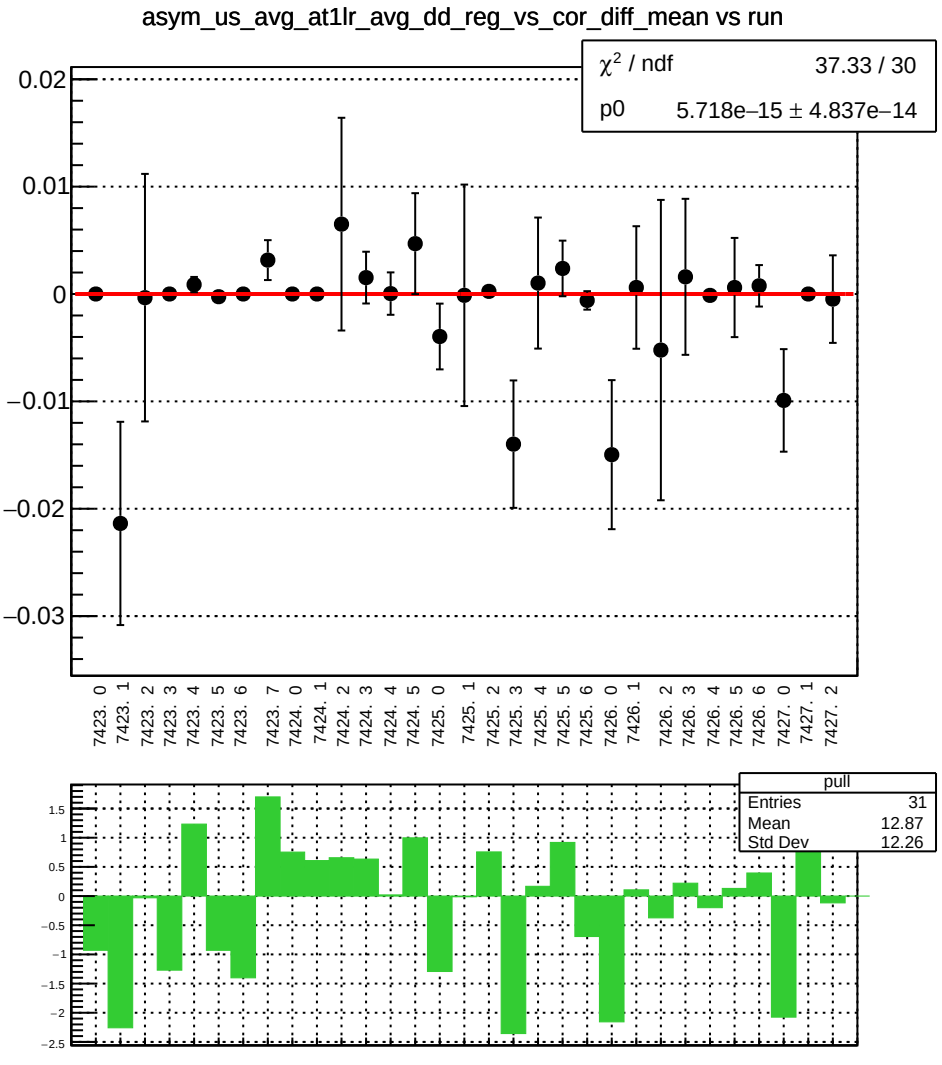

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 25.32 / 30
p0 691.9 ± 1873
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 258.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

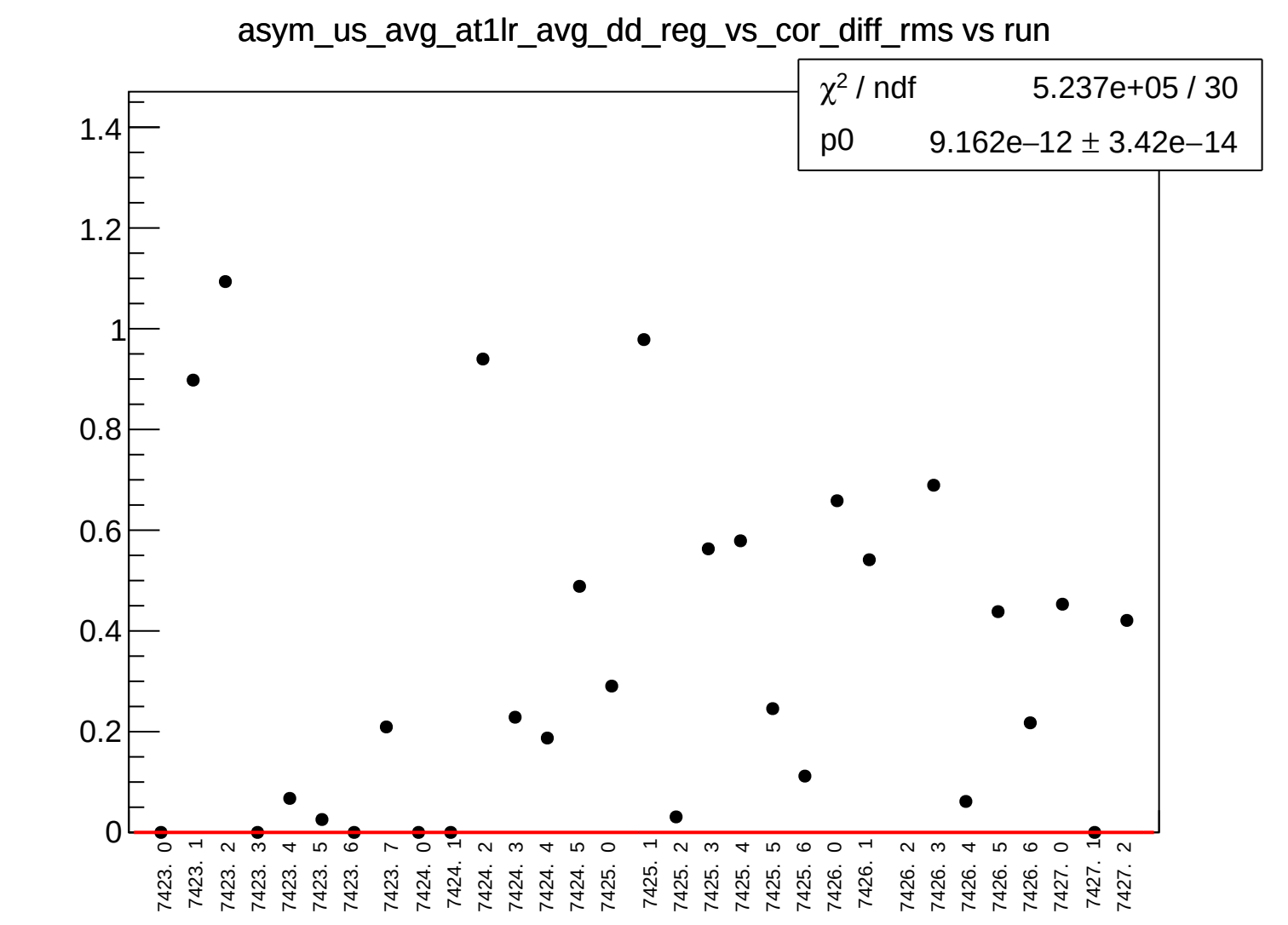

pull1D
Entries 31
Mean 0.01437
Std Dev 0.9037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

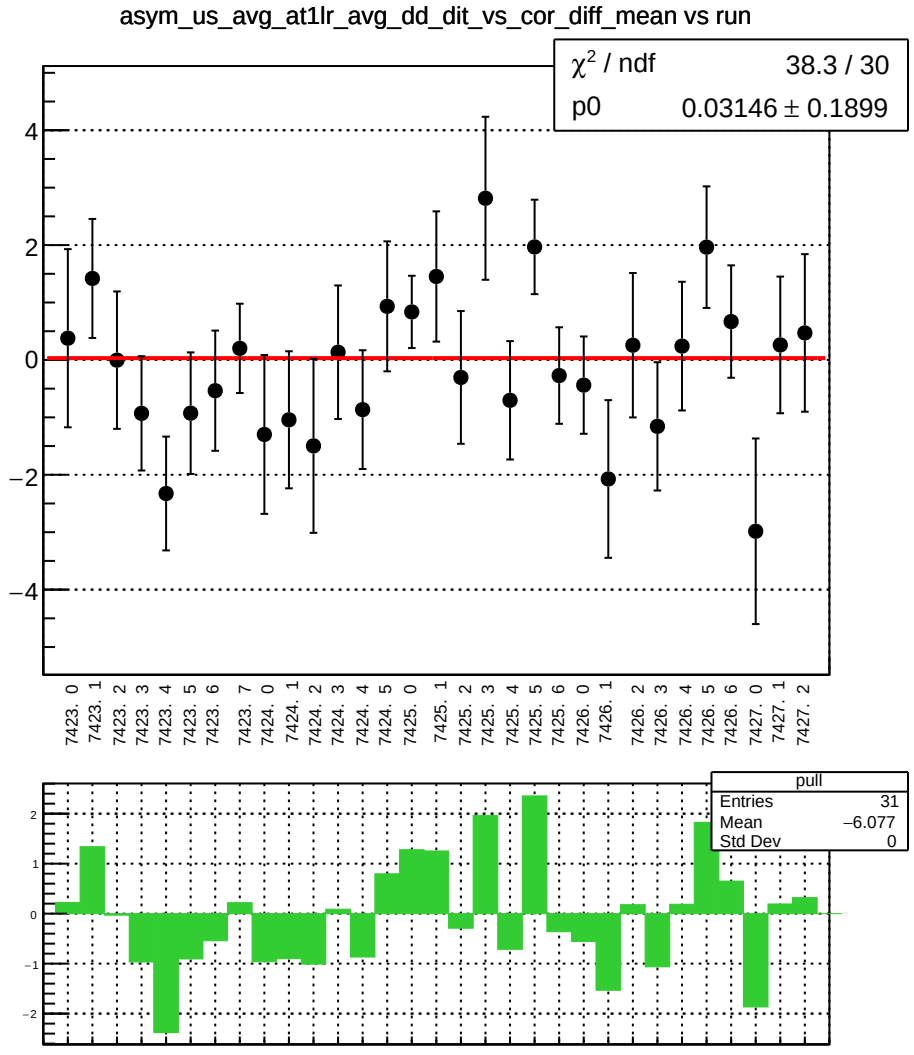

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2103 / 30
p0 1020 ± 1.324
1200
1150
1100
1050
1000
950
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

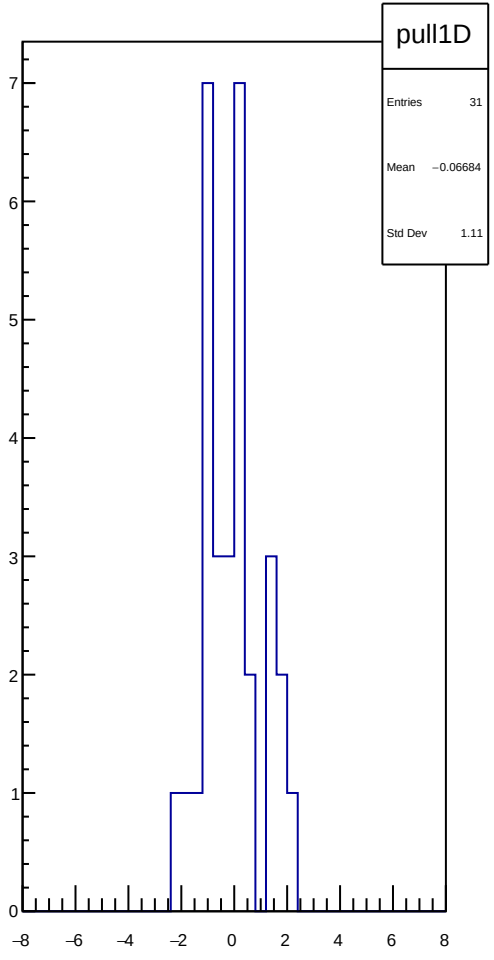

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 24.66 / 30
p0 321.5 ± 3642
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −367.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.002354
Std Dev 0.892
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

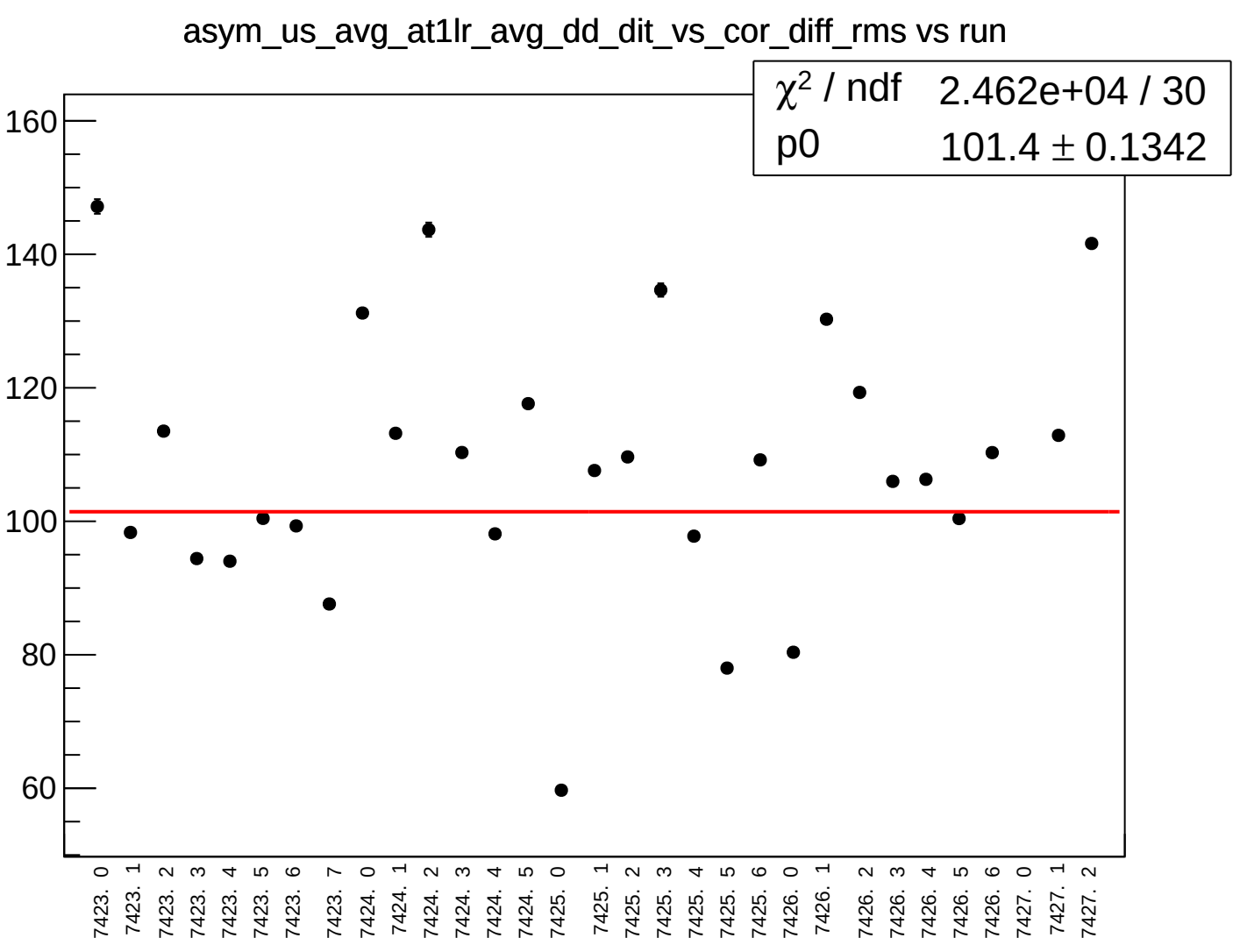

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 197.7 / 30
p0 1987 ± 2.575
2100
2050
2000
1950
1900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

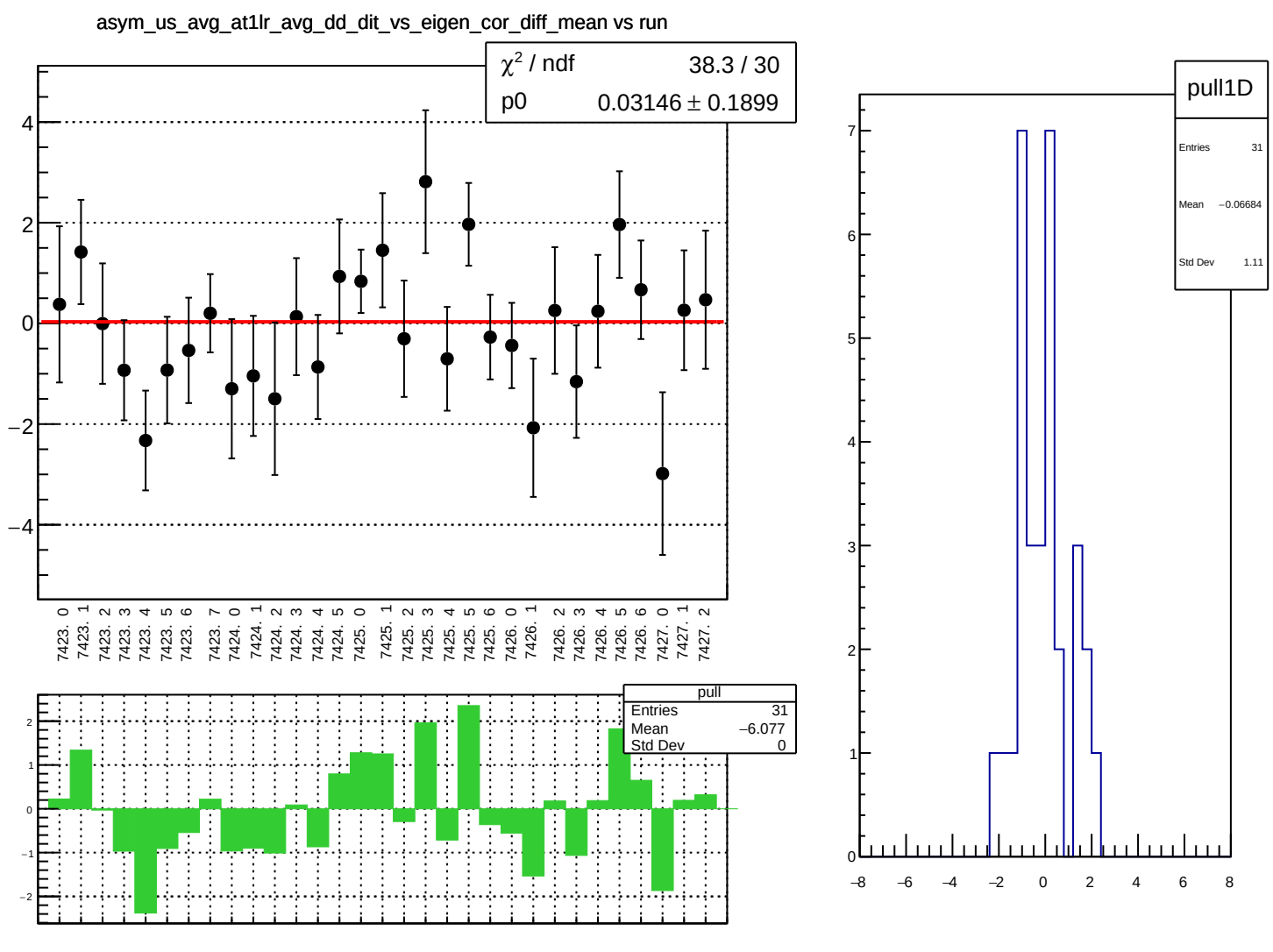

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 37.33 / 30
p0 5.718e−15 ± 4.837e−14
0.02
0.01
0
−0.01
−0.02
−0.03
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 12.87
Std Dev 12.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.1834
Std Dev 1.082
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

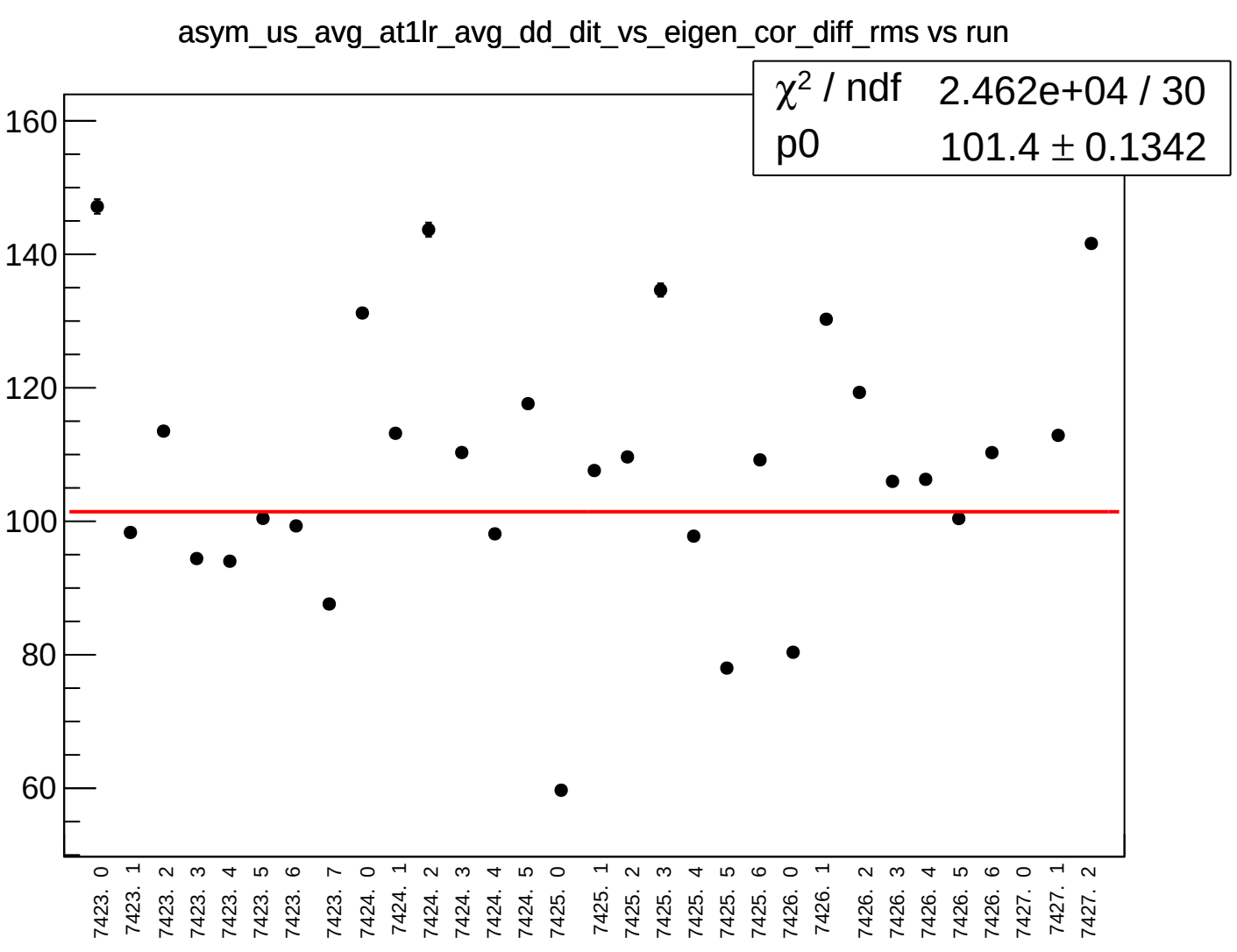

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.237e+05 / 30
p0 9.162e−12 ± 3.42e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

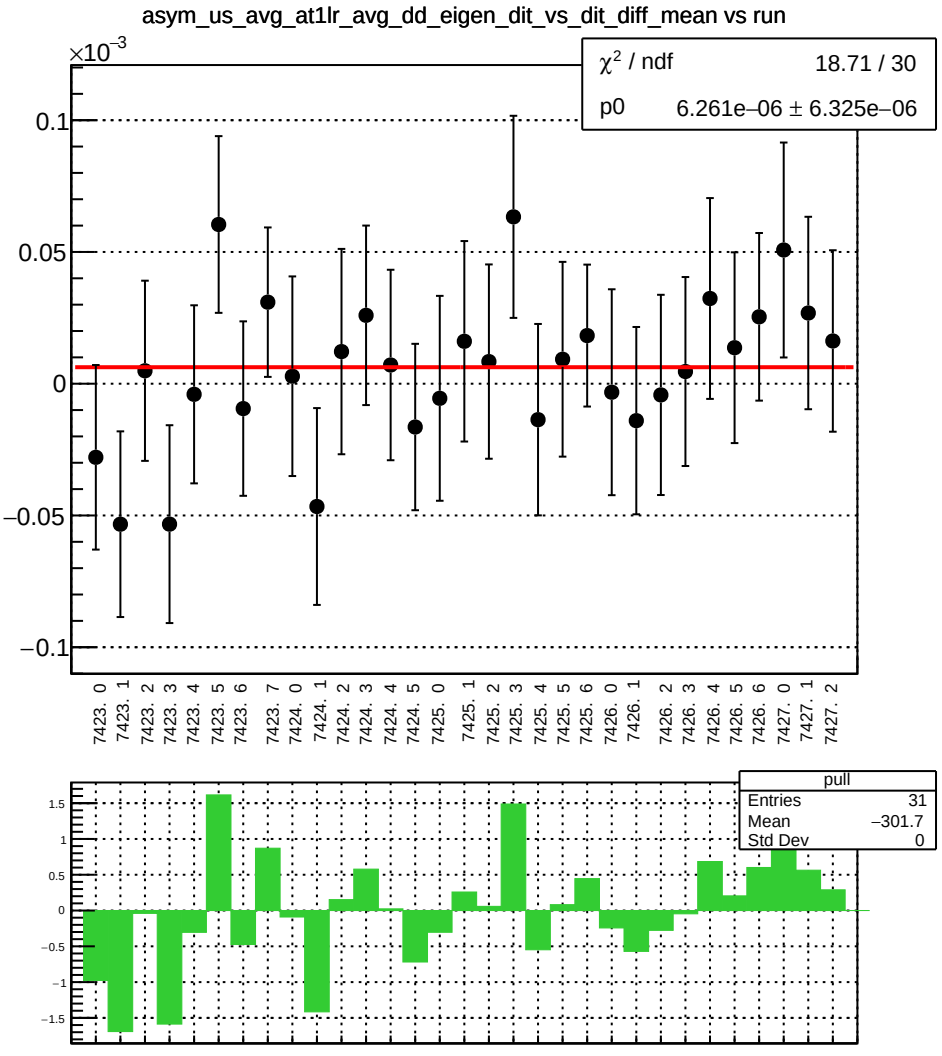

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.3 / 30
p0 0.03146 ± 0.1899
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −6.077
Std Dev 0
2
1
0
−1
−2

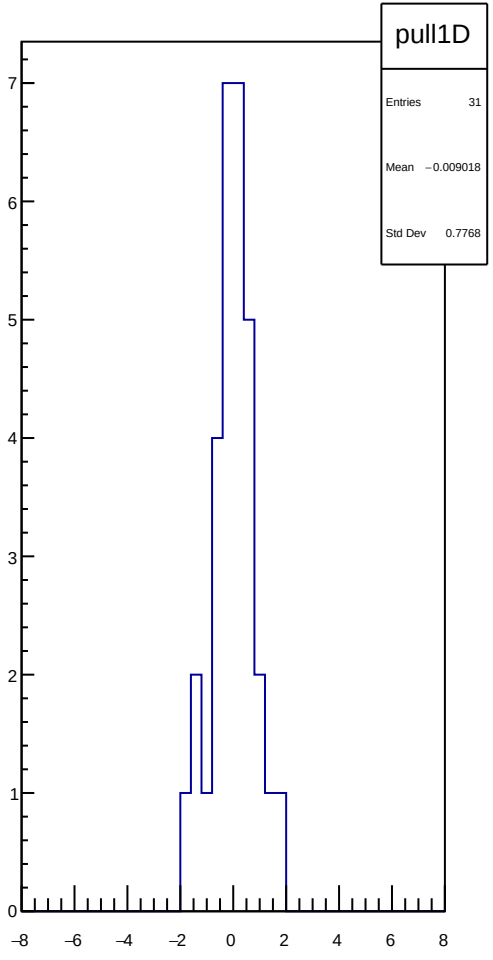

pull1D
Entries 31
Mean −0.06684
Std Dev 1.11
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

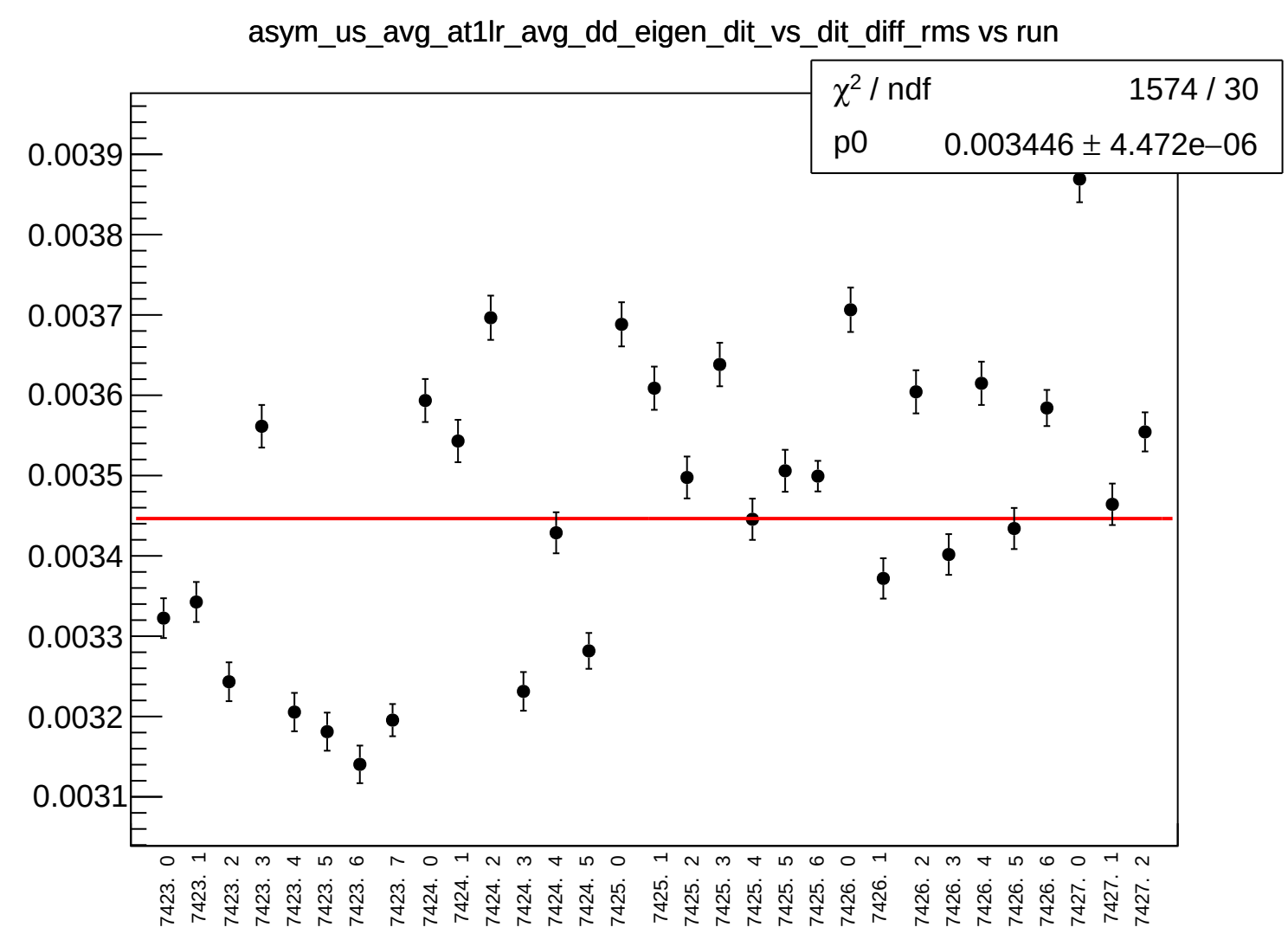

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.462e+04 / 30
p0 101.4 ± 0.1342
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

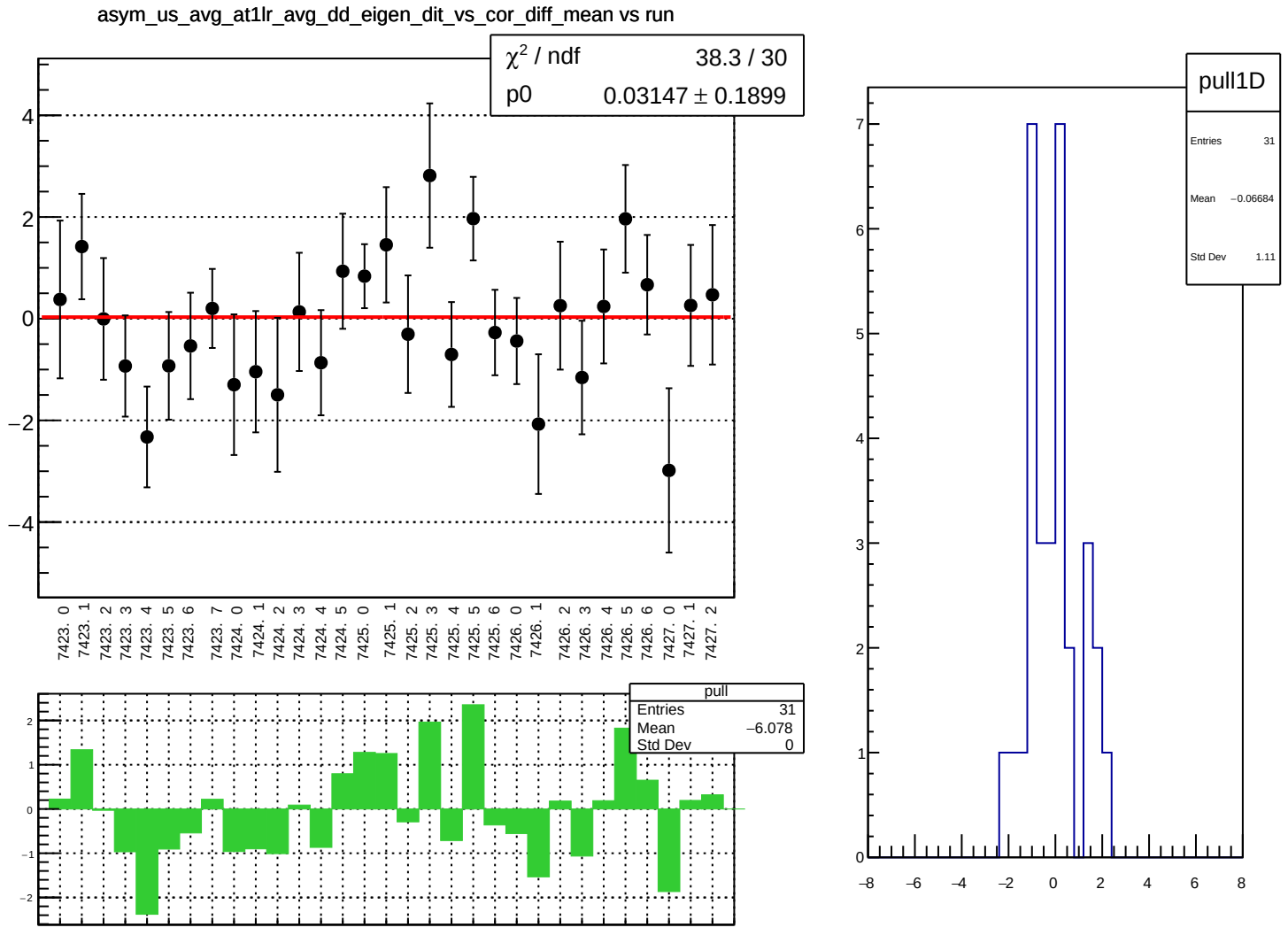

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.3 / 30
p0 0.03146 ± 0.1899
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −6.077
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.06684
Std Dev 1.11
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

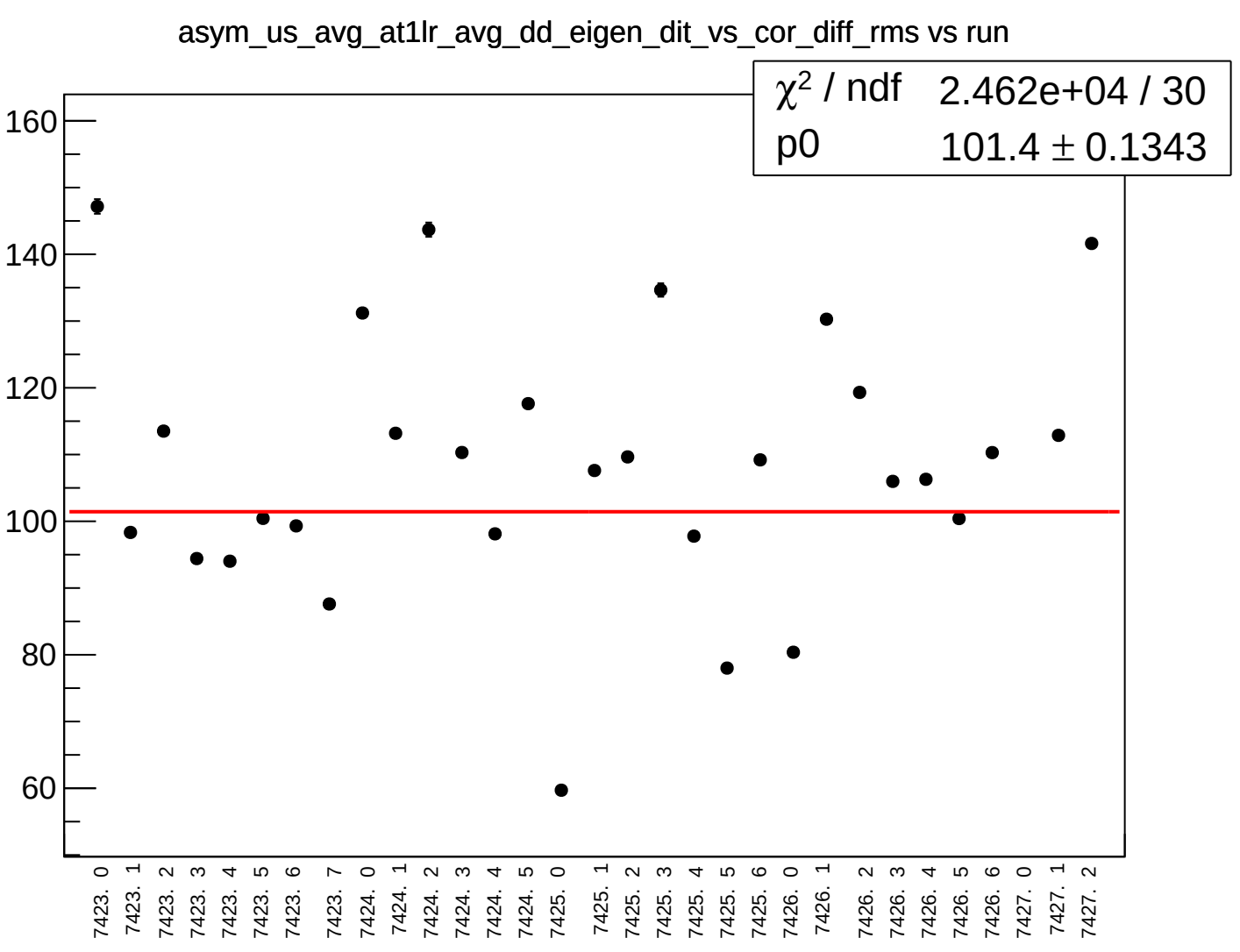

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.462e+04 / 30
p0 101.4 ± 0.1342
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

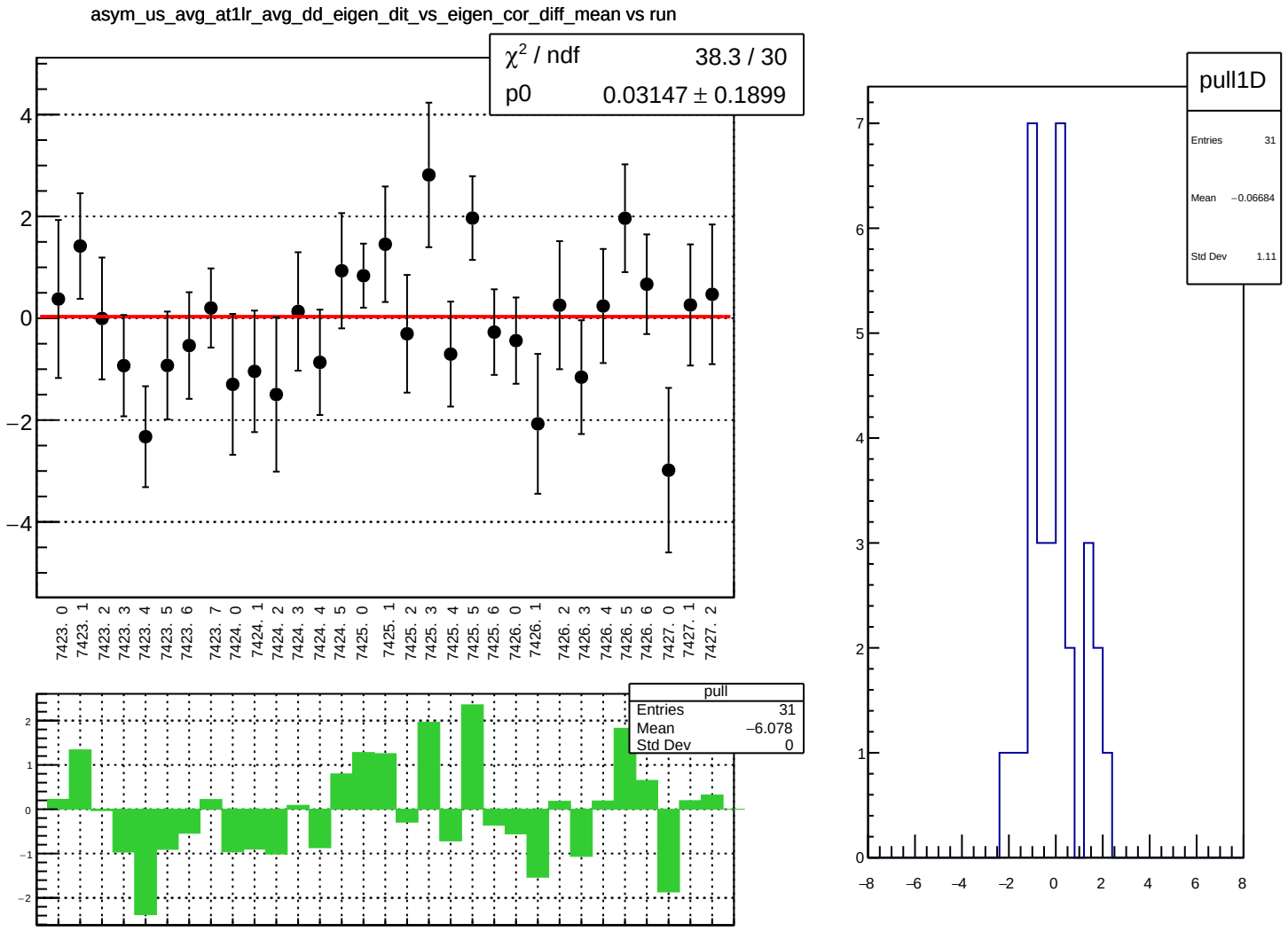

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.71 / 30
p0 6.261e−06 ± 6.325e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −301.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

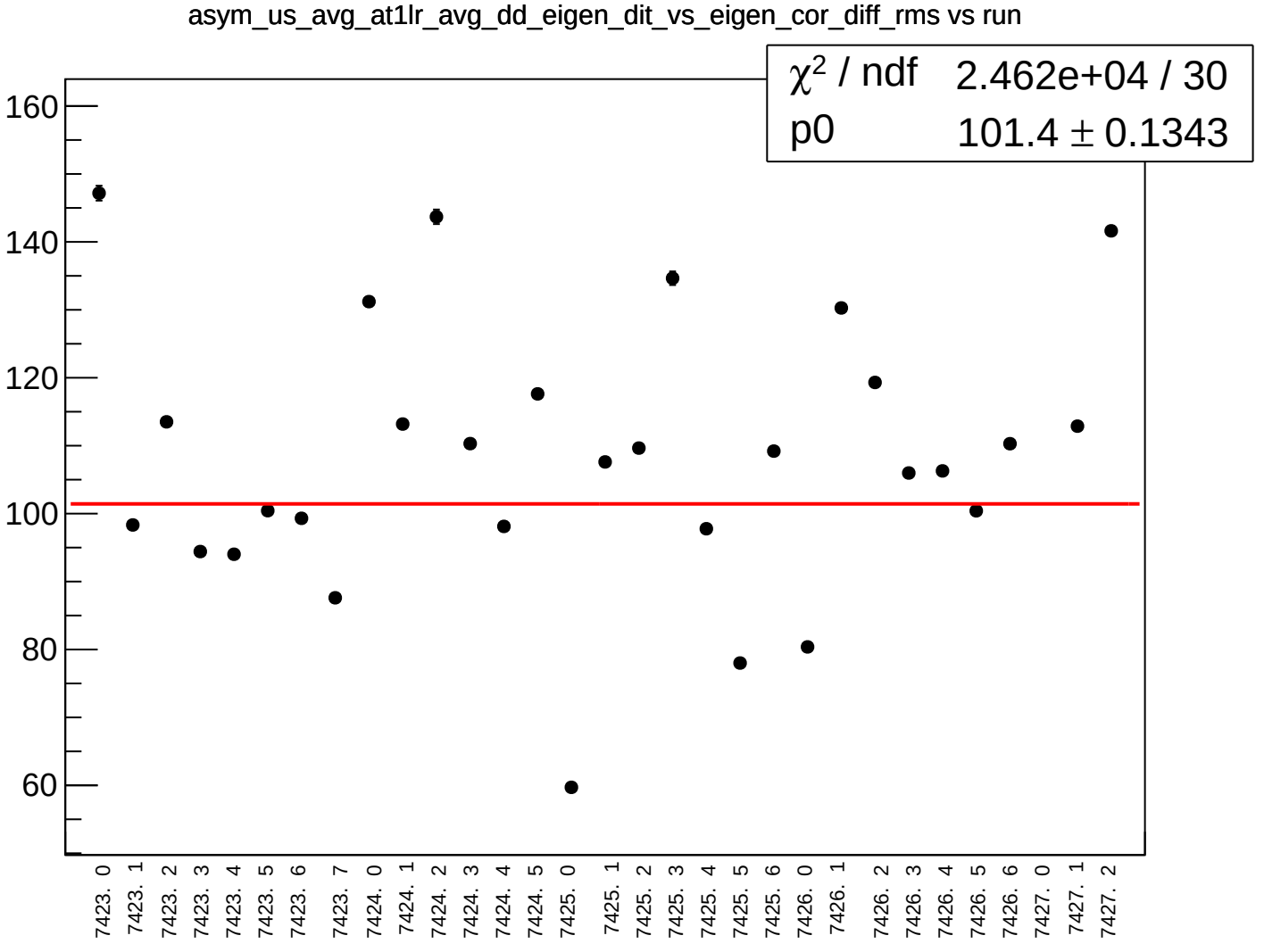

pull1D
Entries 31
Mean −0.009018
Std Dev 0.7768
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

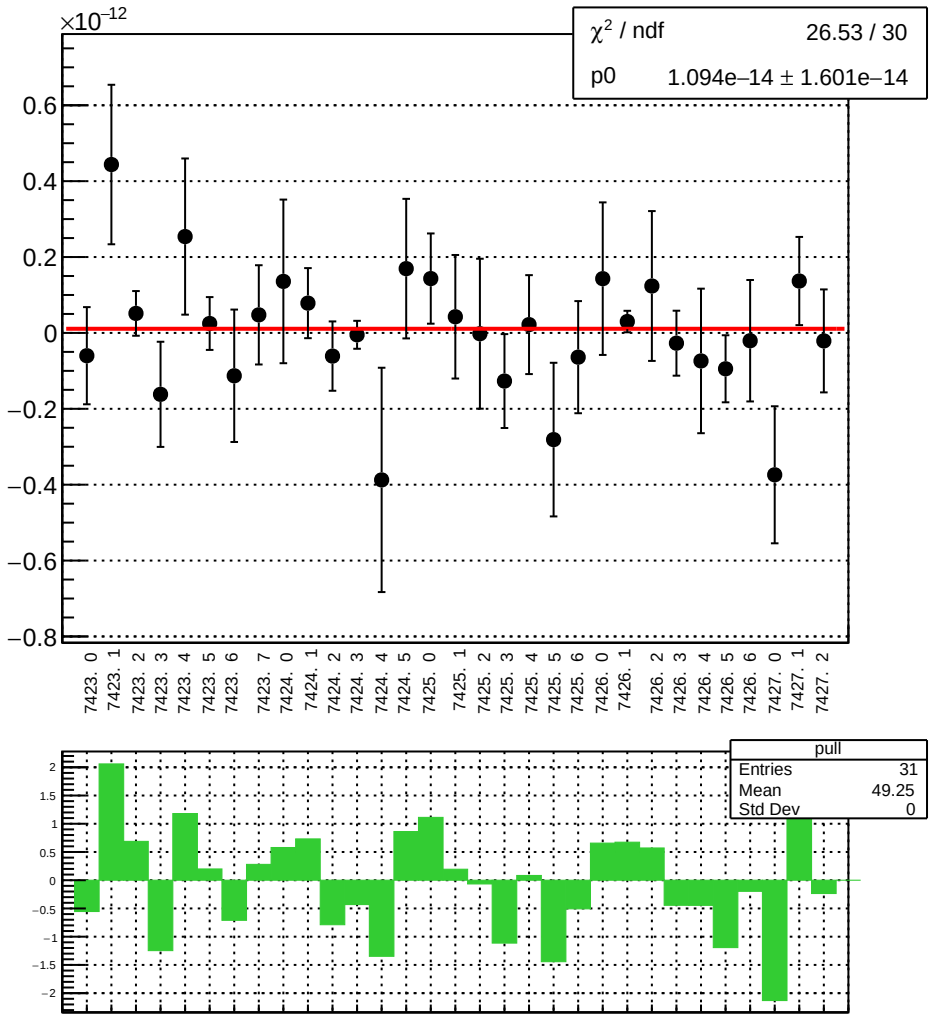

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1574 / 30
p0 0.003446 ± 4.472e−06
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

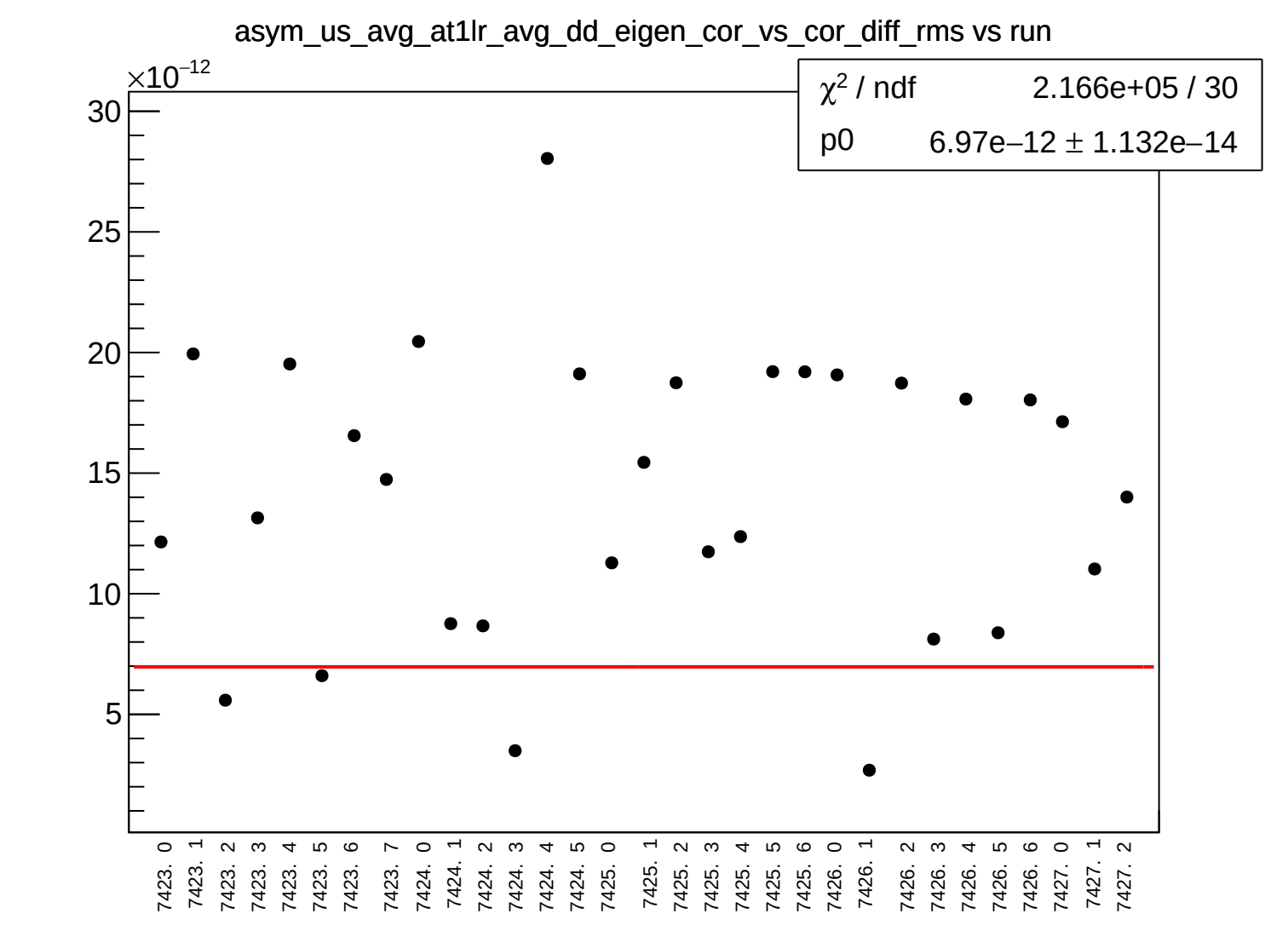

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.3 / 30
p0 0.03147 ± 0.1899
pull
Entries 31
Mean −6.078
Std Dev 0
pull1D
Entries 31
Mean −0.06684
Std Dev 1.11

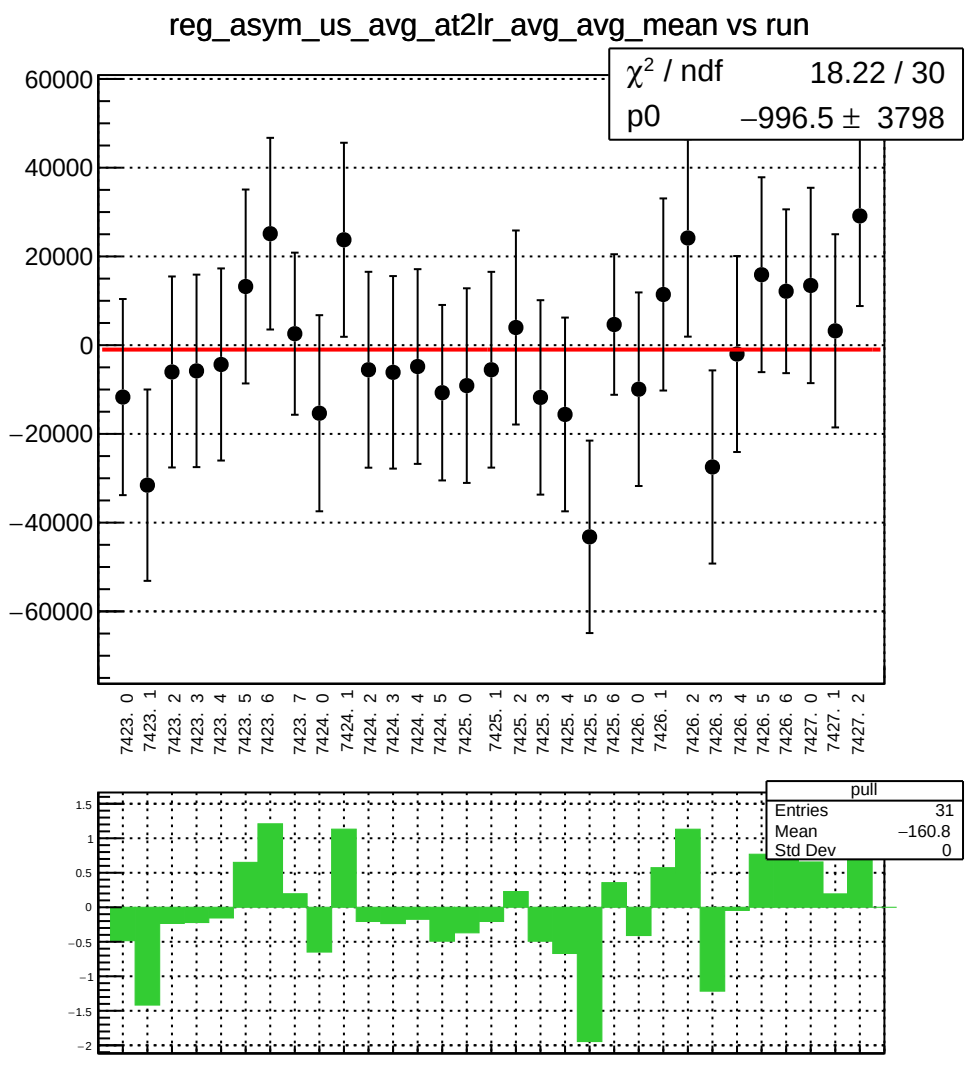

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.462e+04 / 30
p0 101.4 ± 0.1343
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

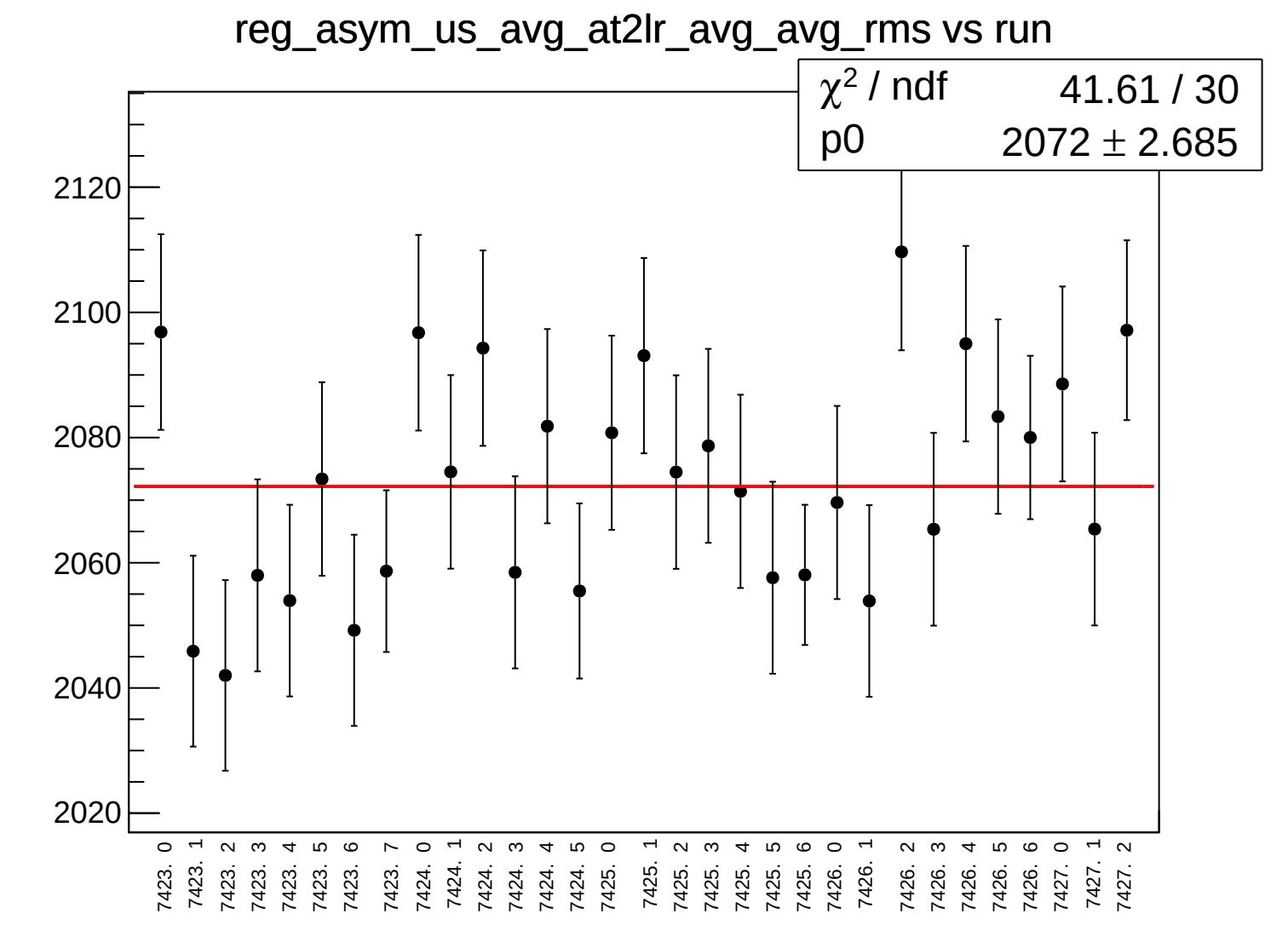

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.3 / 30
p0 0.03147 ± 0.1899
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −6.078
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.06684
Std Dev 1.11
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

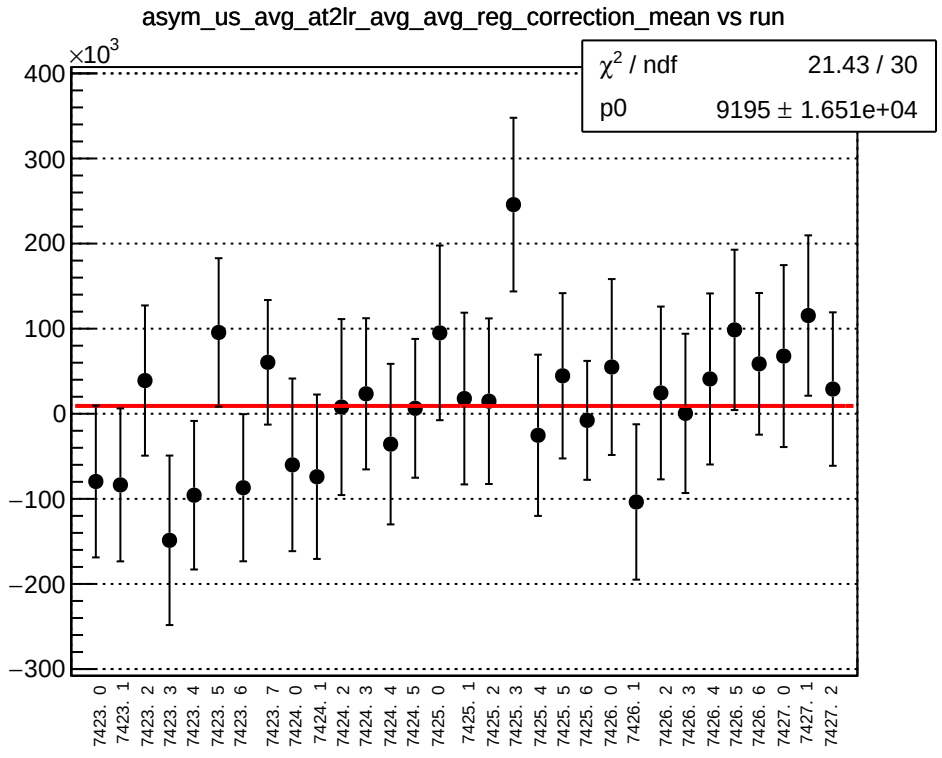

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.462e+04 / 30
p0 101.4 ± 0.1343
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

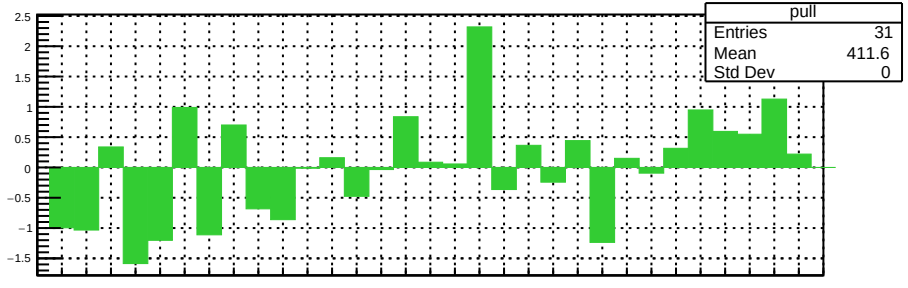

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 26.53 / 30
p0 1.094e−14 ± 1.601e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.06122
Std Dev 0.9231
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

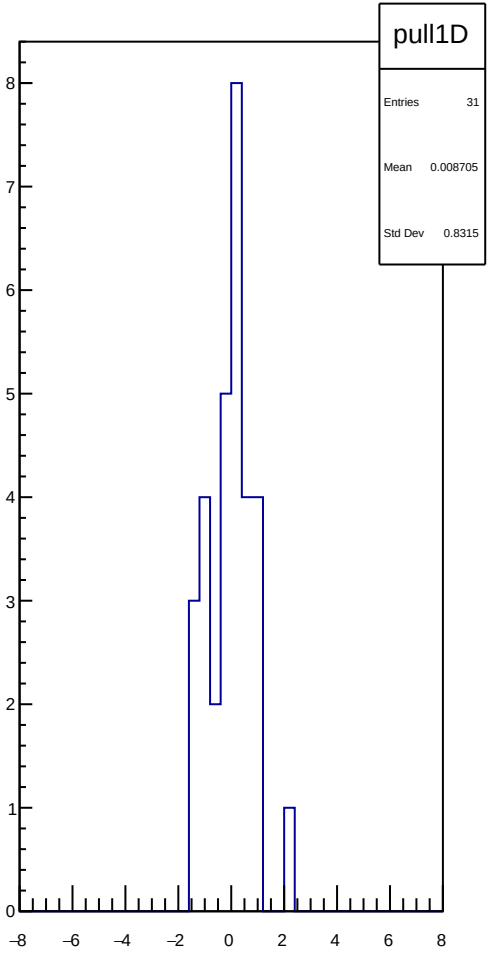

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.166e+05 / 30
p0 6.97e−12 ± 1.132e−14
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

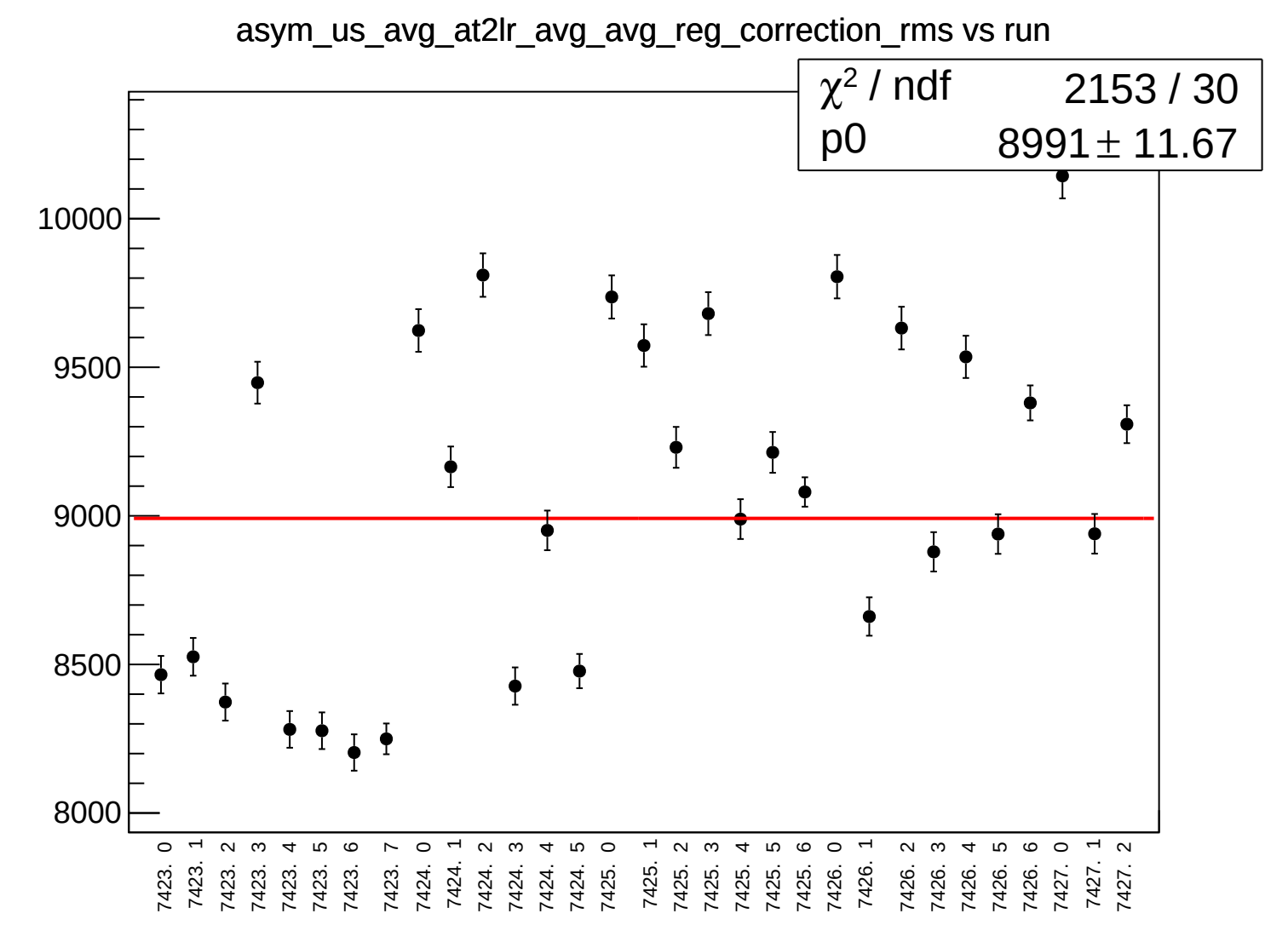

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 18.22 / 30
p0 −996.5 ± 3798
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −160.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01063
Std Dev 0.7667
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

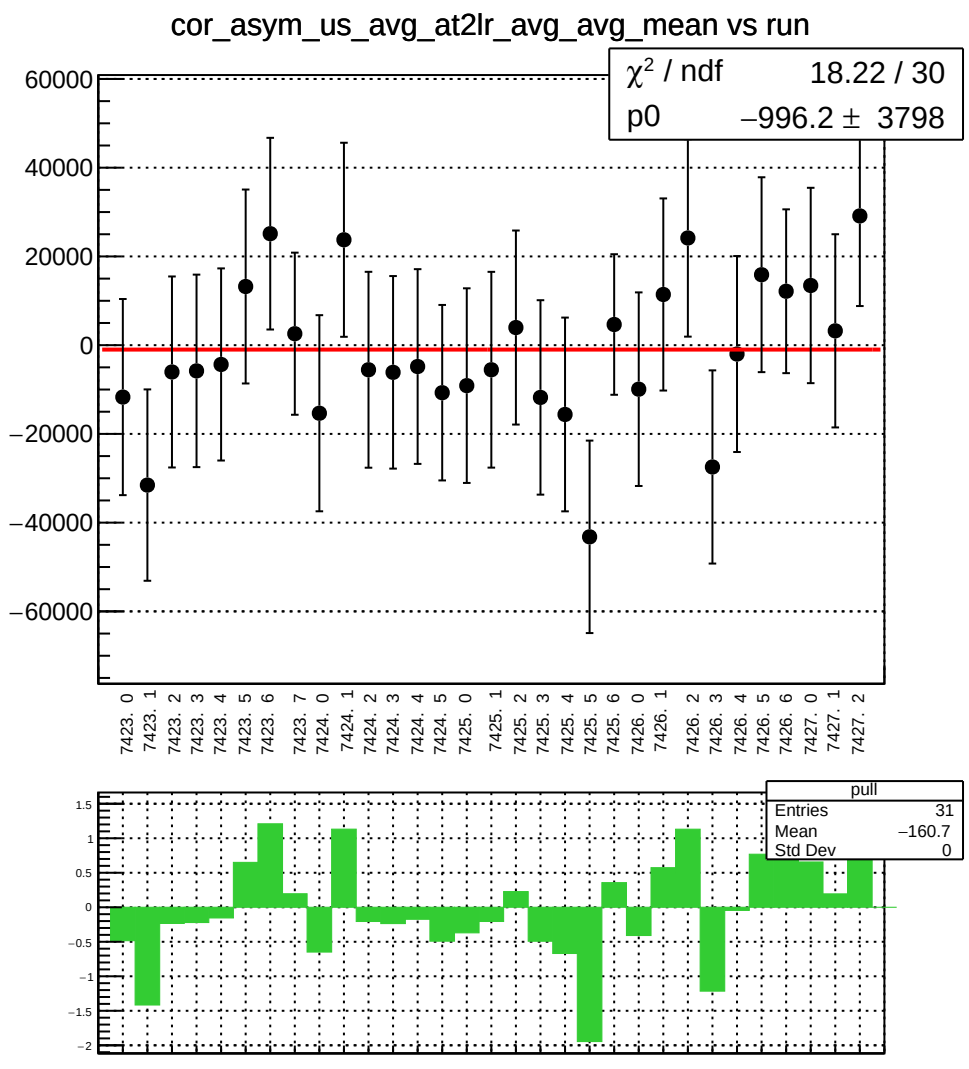

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 41.61 / 30
p0 2072 ± 2.685
2120
2100
2080
2060
2040
2020
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

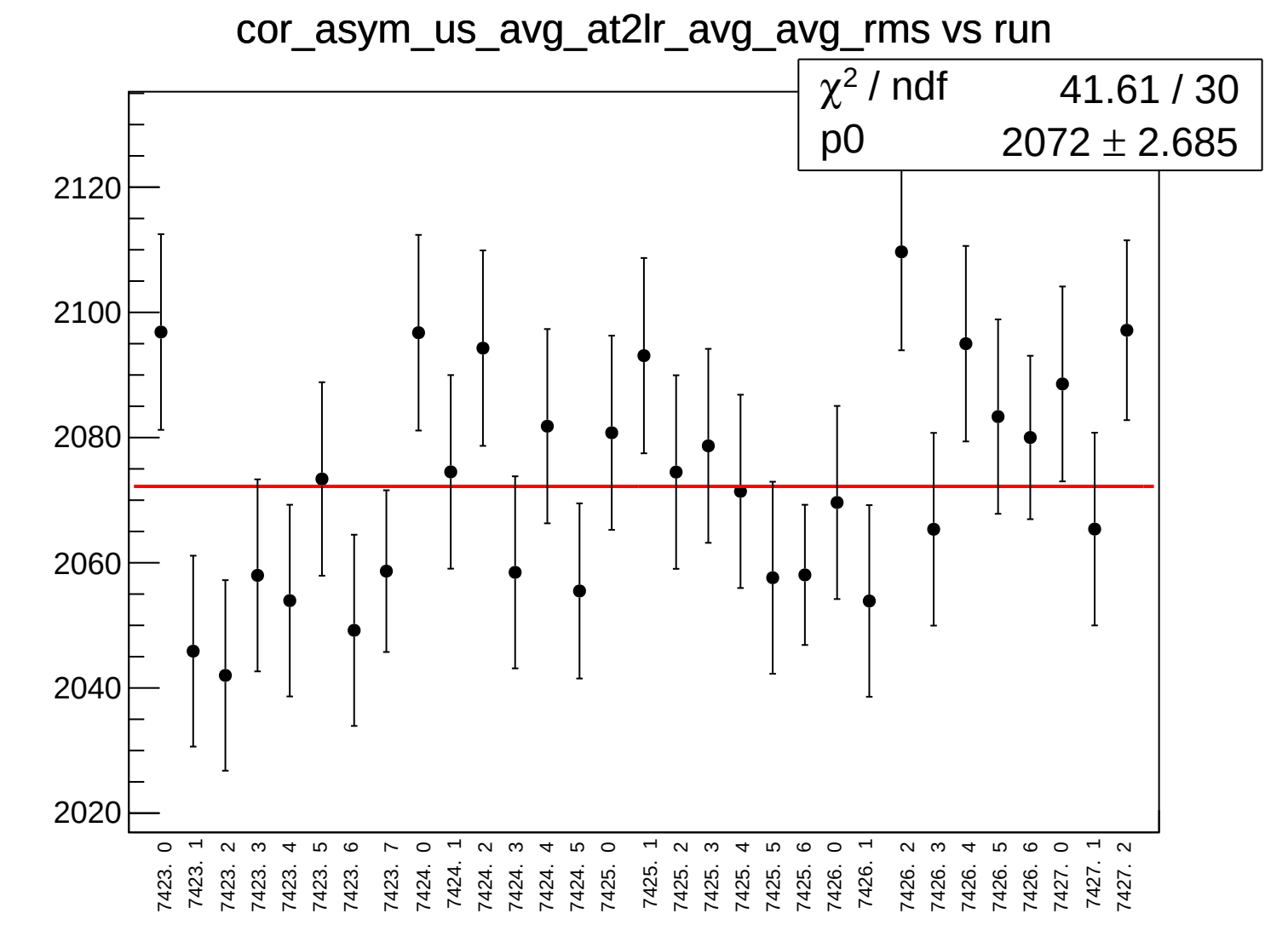

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 21.43 / 30
p0 9195 ± 1.651e+04
400
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

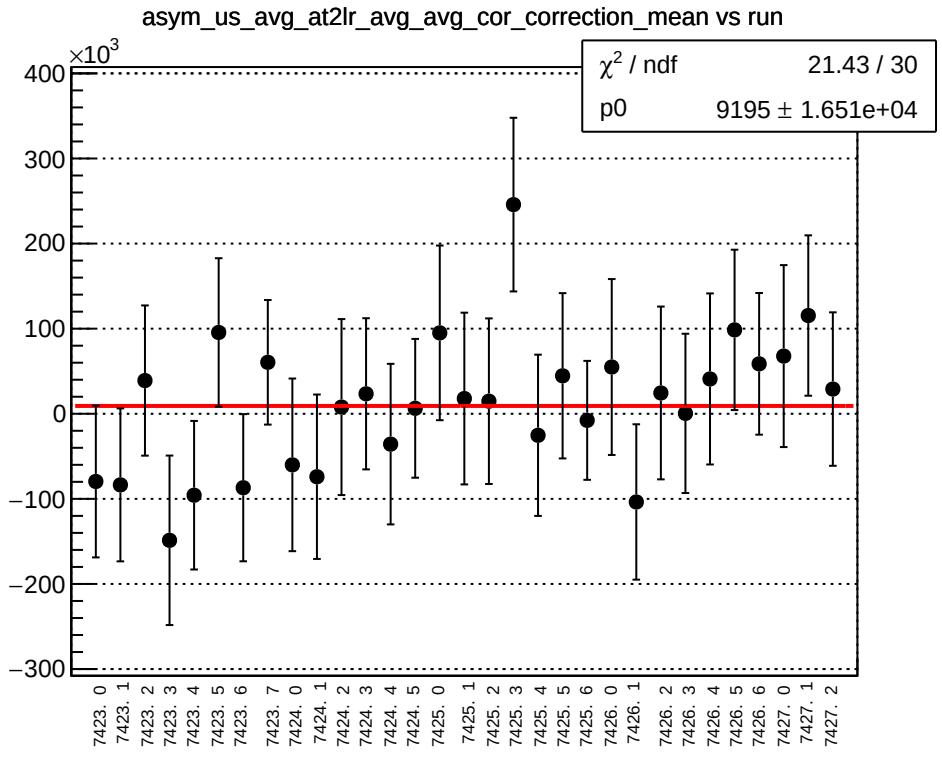

pull
Entries 31
Mean 411.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

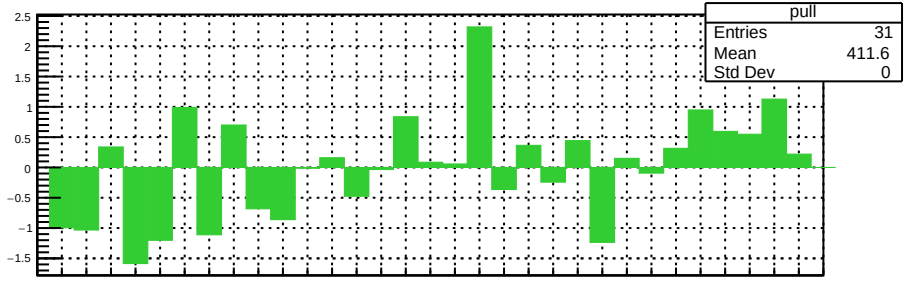

pull1D
Entries 31
Mean 0.008705
Std Dev 0.8315
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

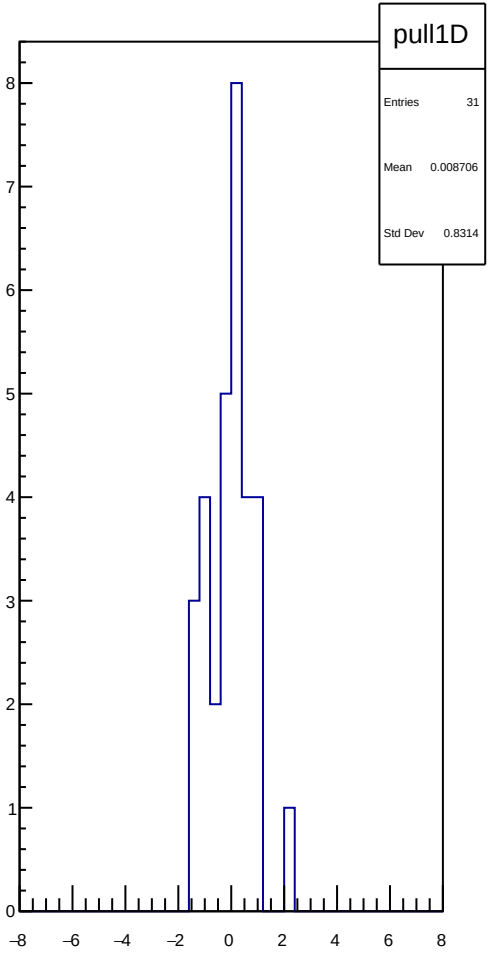

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2153 / 30
p0 8991 ± 11.67
10000
9500
9000
8500
8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

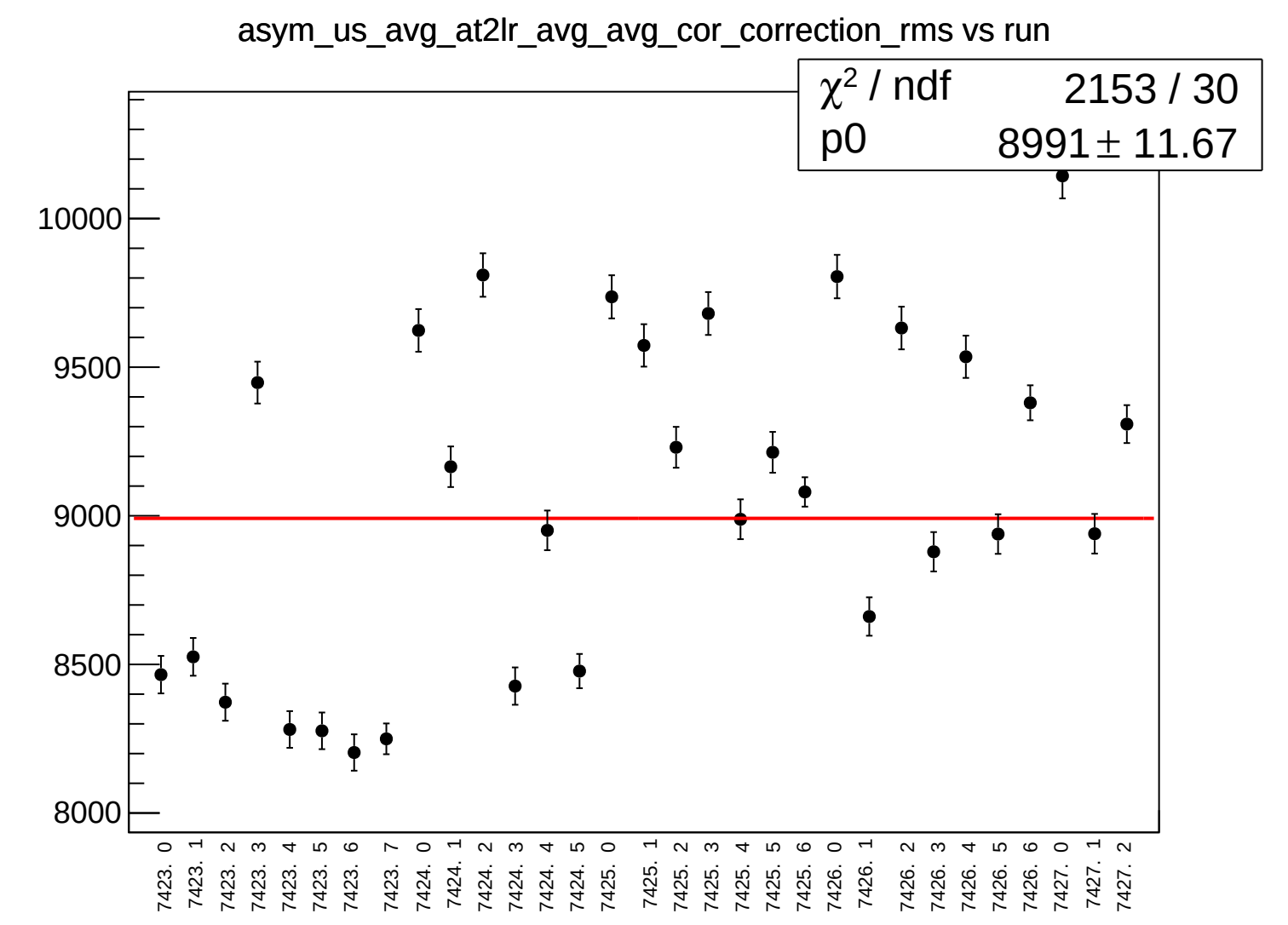

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 18.22 / 30
p0 −996.2 ± 3798
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −160.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01063
Std Dev 0.7666
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

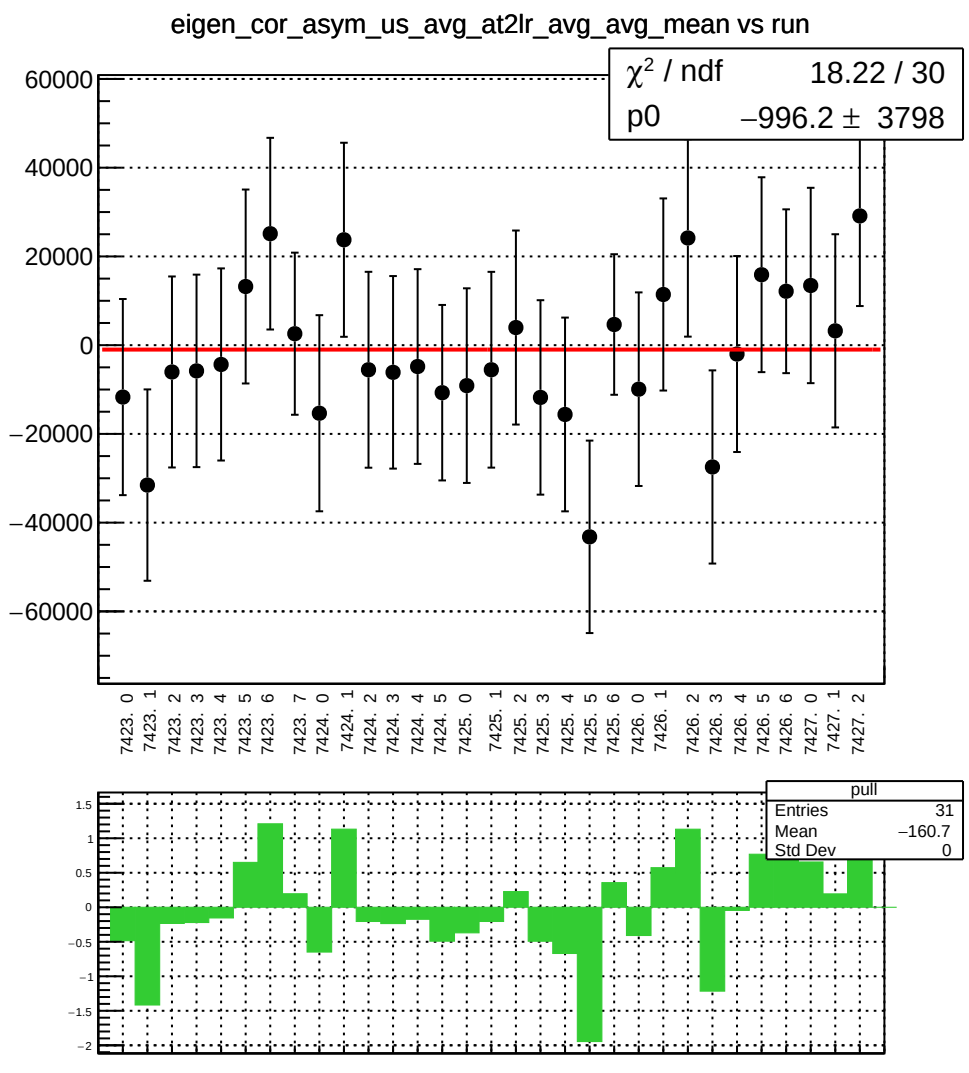

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 41.61 / 30
p0 2072 ± 2.685
2120
2100
2080
2060
2040
2020
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

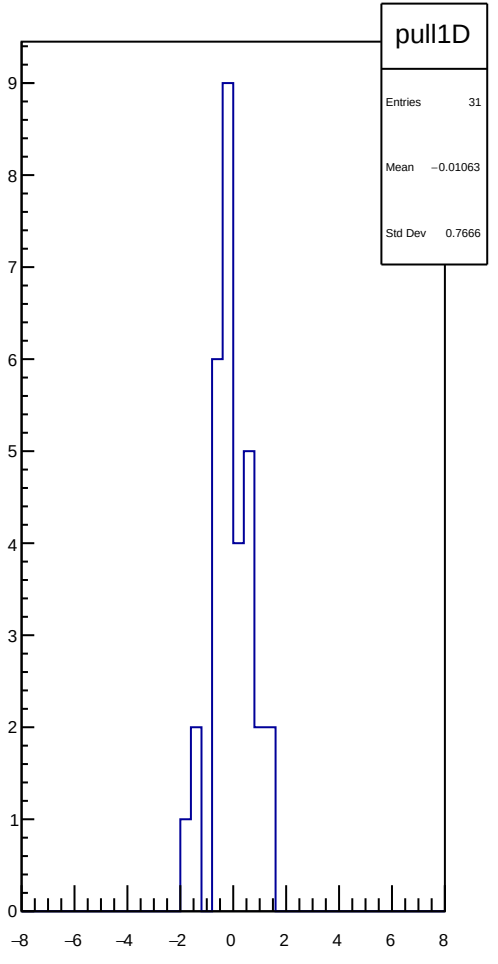

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 21.43 / 30
p0 9195 ± 1.651e+04
400
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

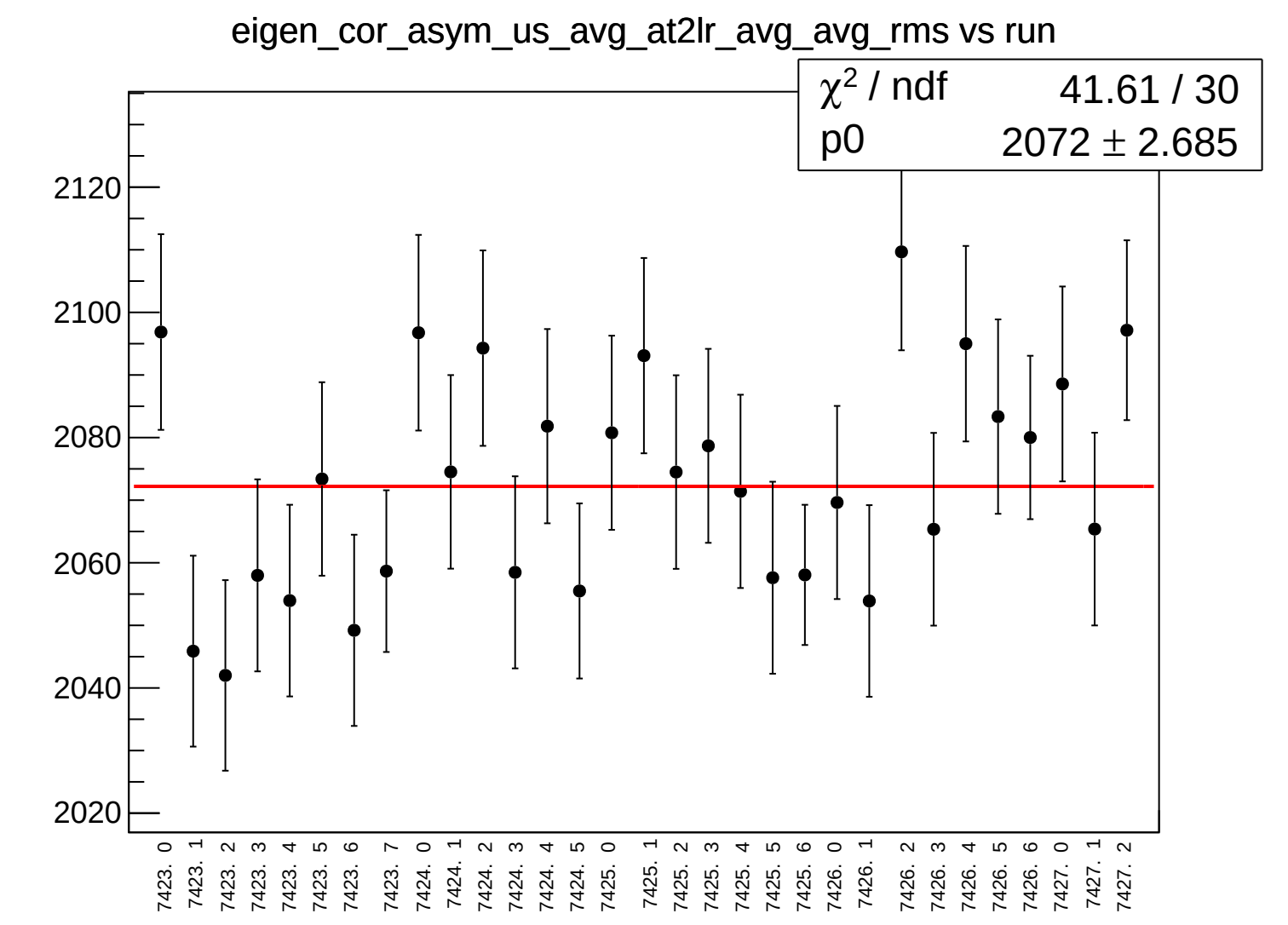

pull
Entries 31
Mean 411.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

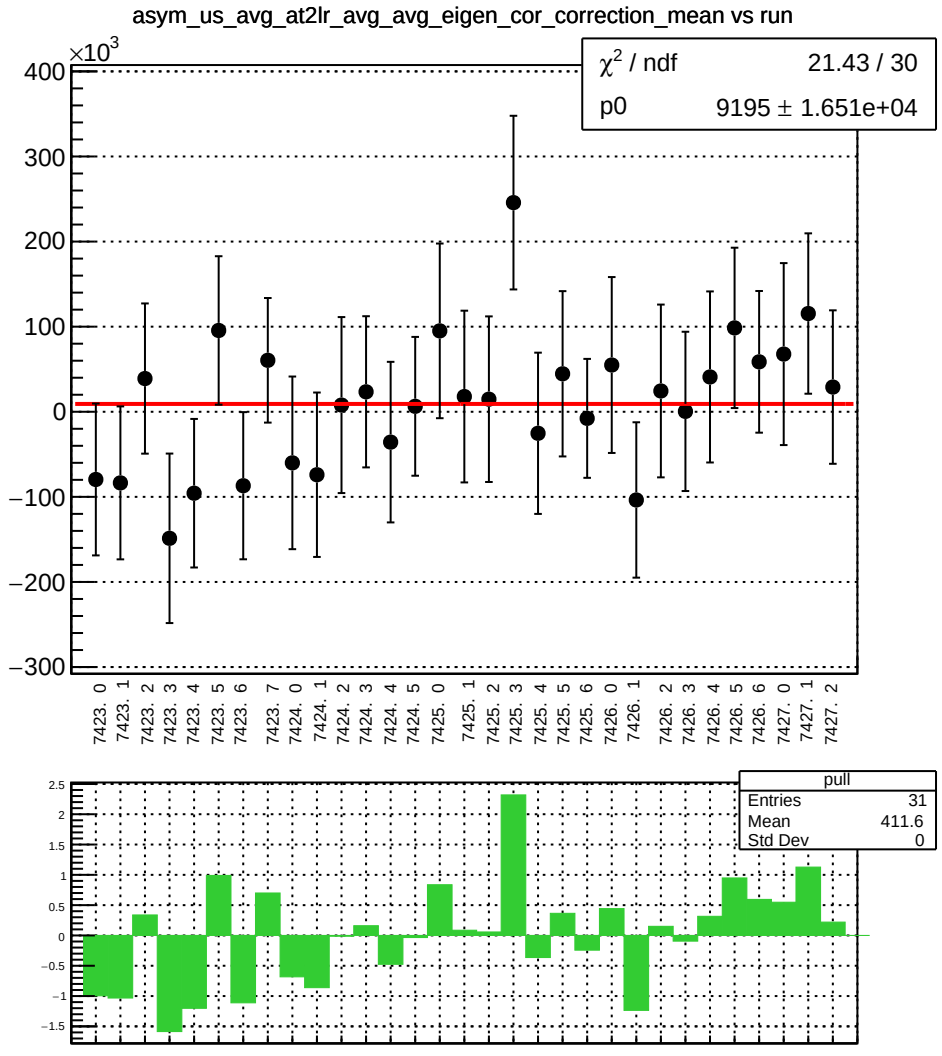

pull1D
Entries 31
Mean 0.008706
Std Dev 0.8314
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

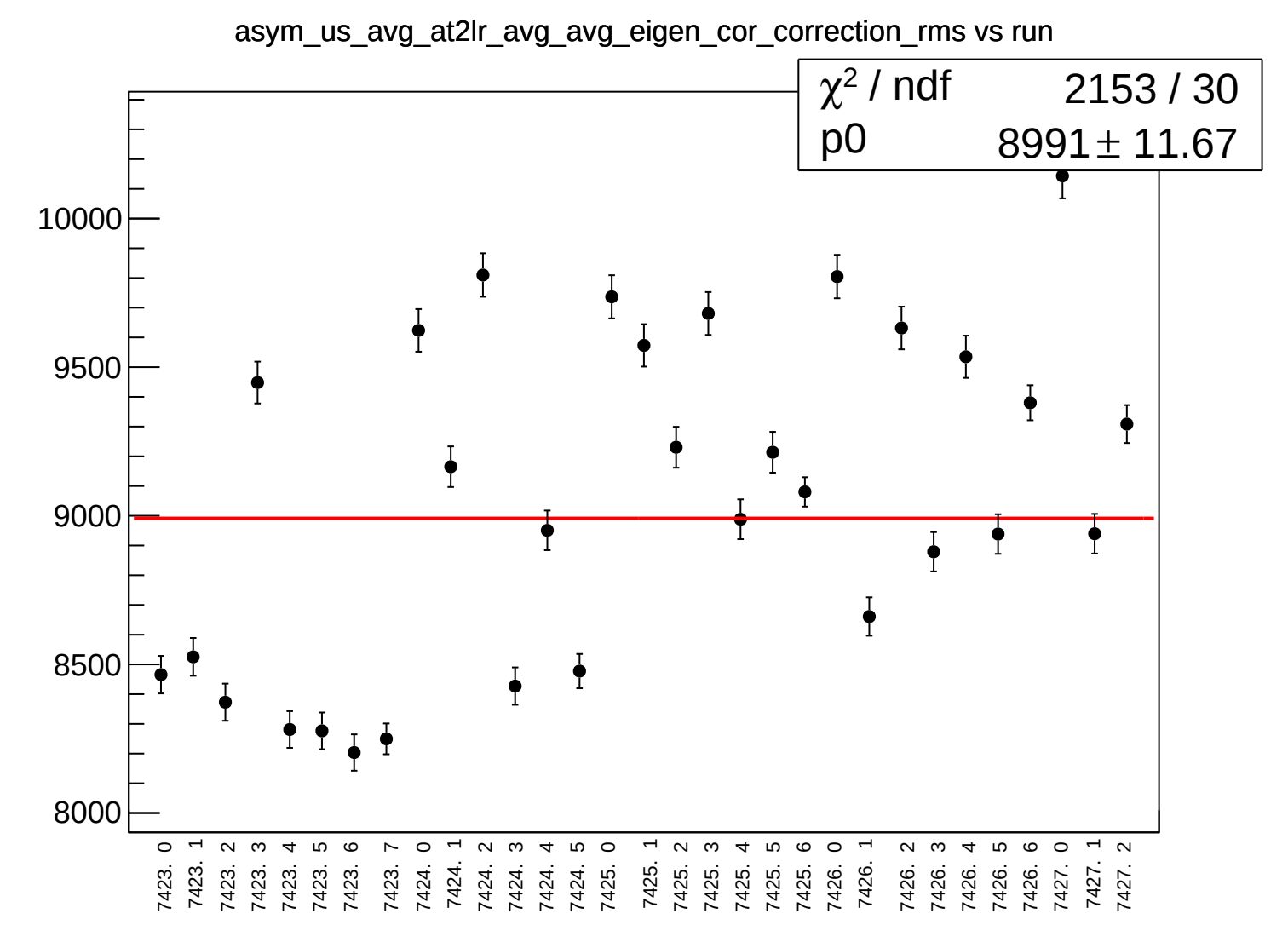

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2153 / 30
p0 8991 ± 11.67
10000
9500
9000
8500
8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

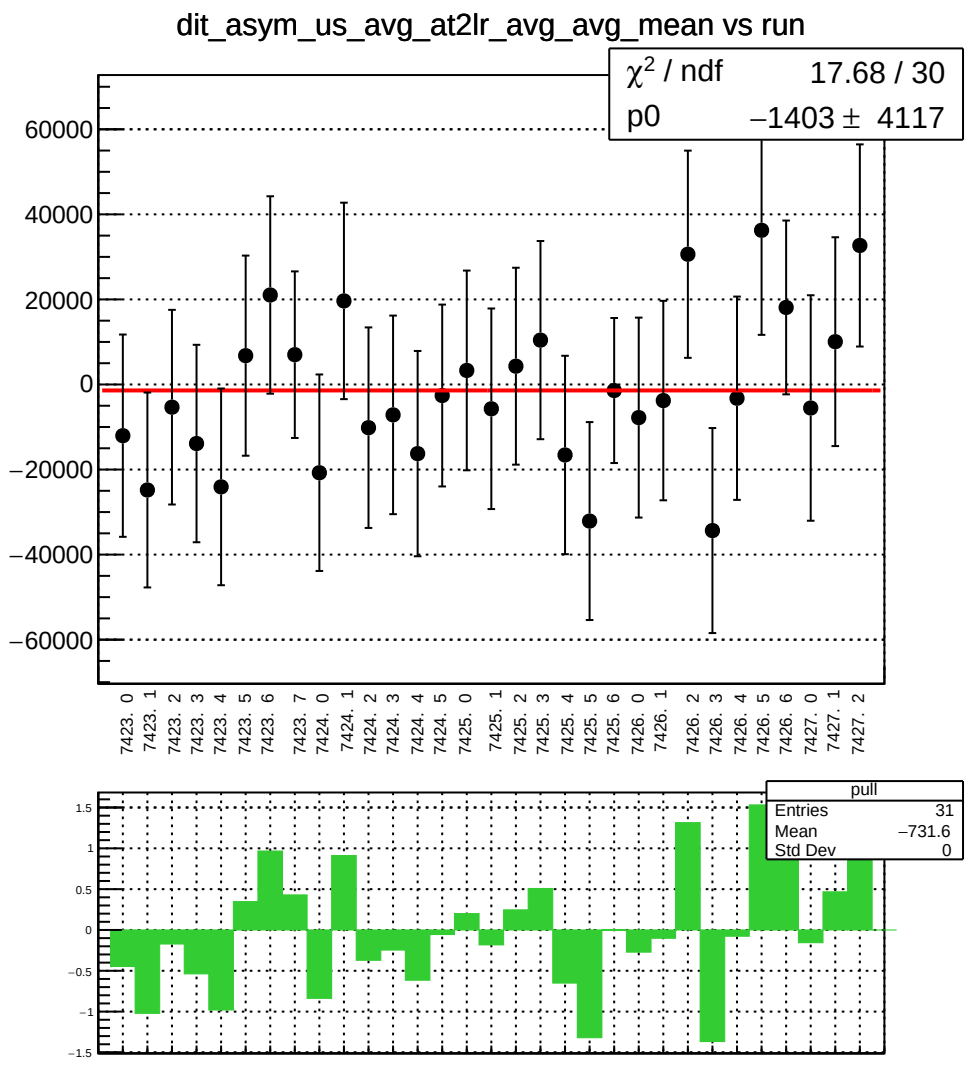

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 18.22 / 30
p0 −996.2 ± 3798
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −160.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

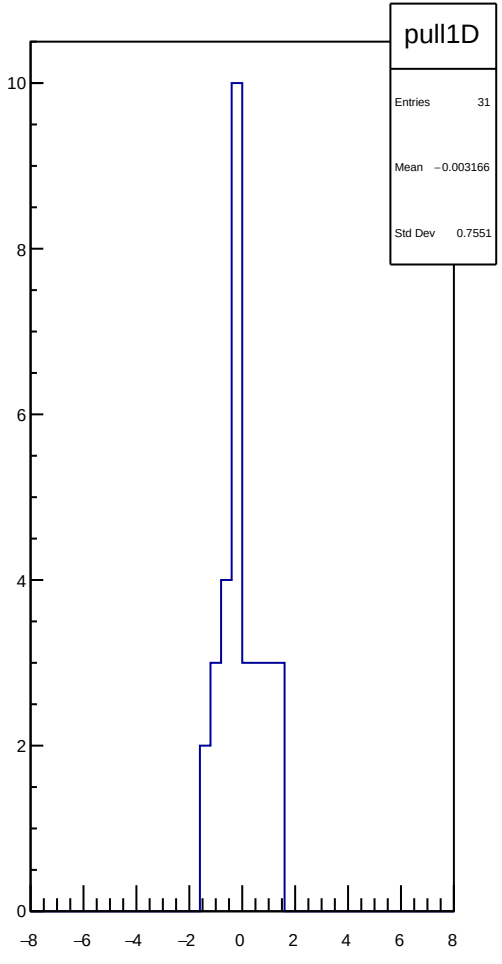

pull1D
Entries 31
Mean −0.01063
Std Dev 0.7666
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

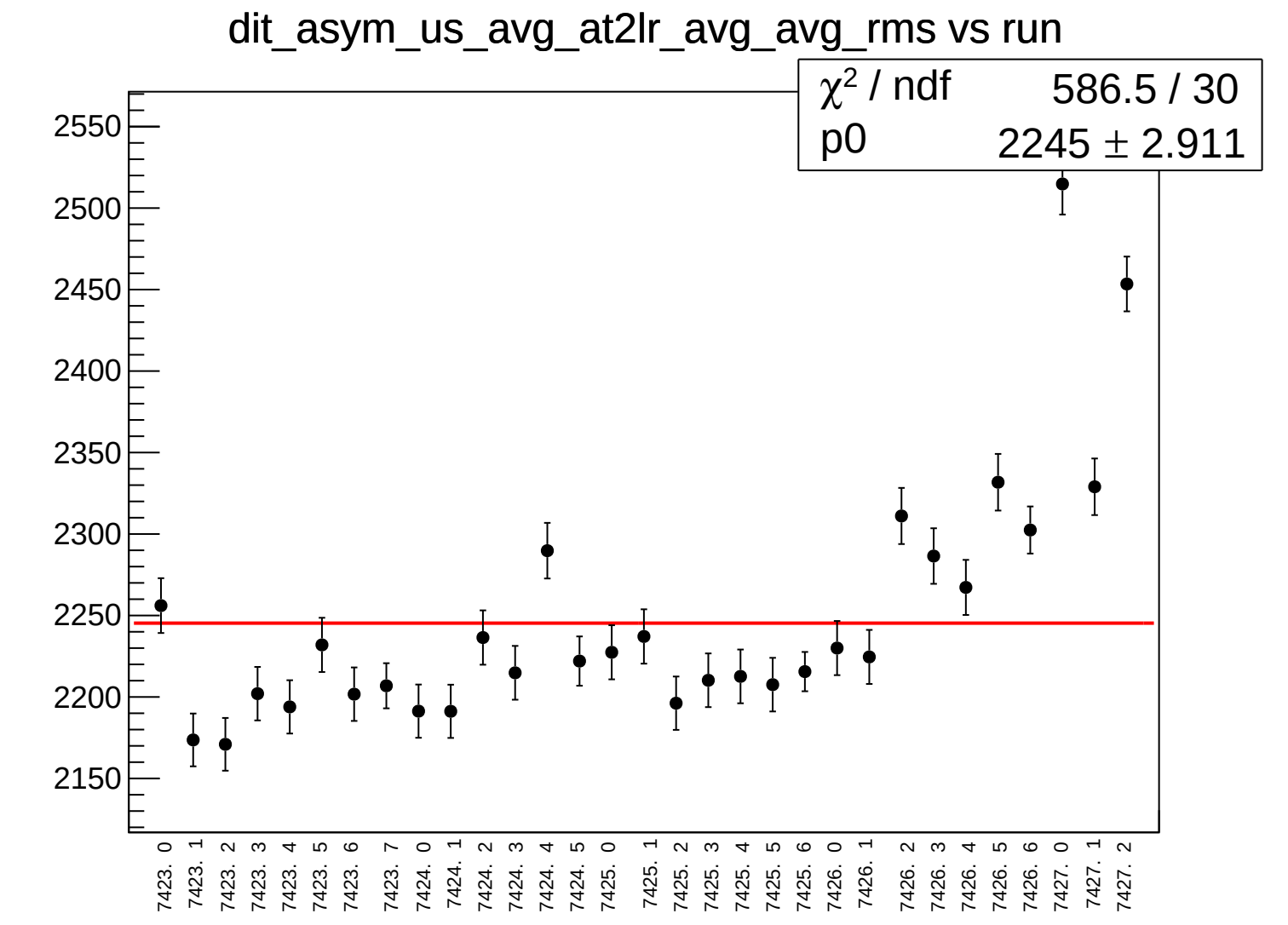

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 41.61 / 30
p0 2072 ± 2.685
2120
2100
2080
2060
2040
2020
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

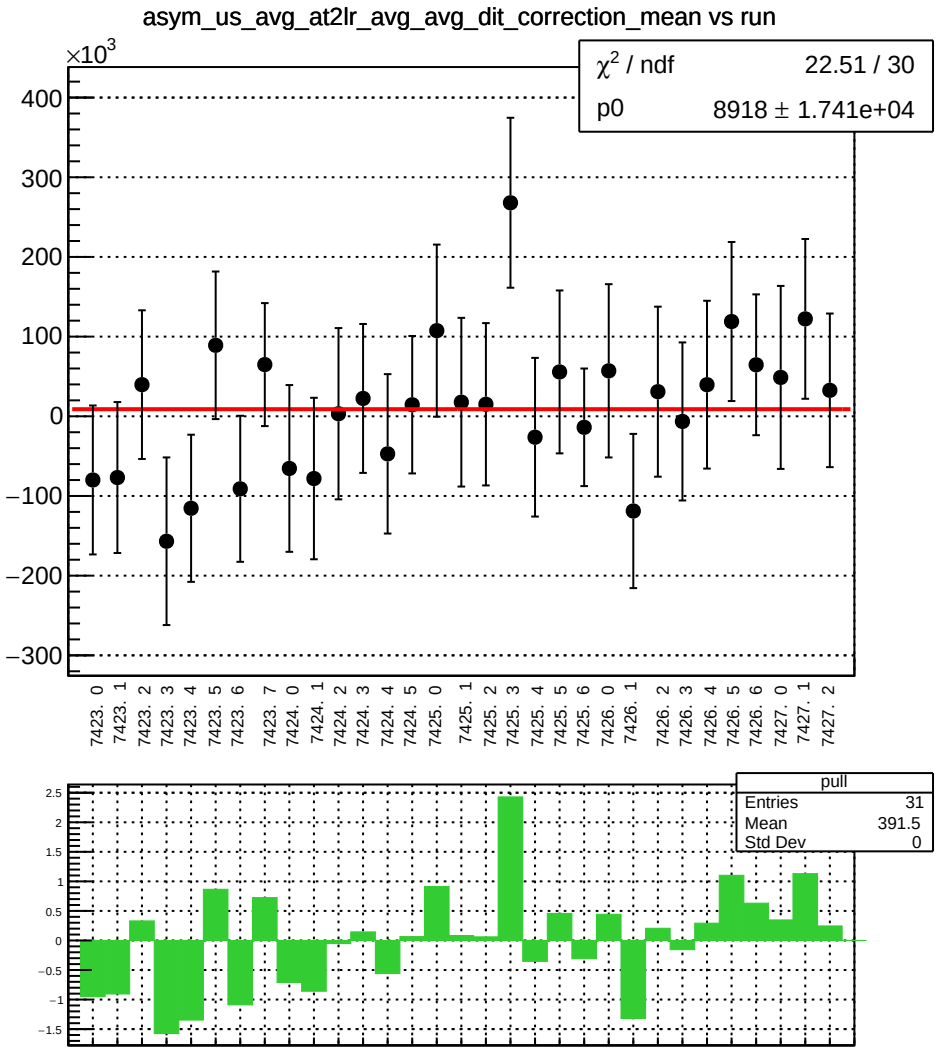

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.43 / 30
p0 9195 ± 1.651e+04
pull
Entries 31
Mean 411.6
Std Dev 0
pull1D
Entries 31
Mean 0.008706
Std Dev 0.8314

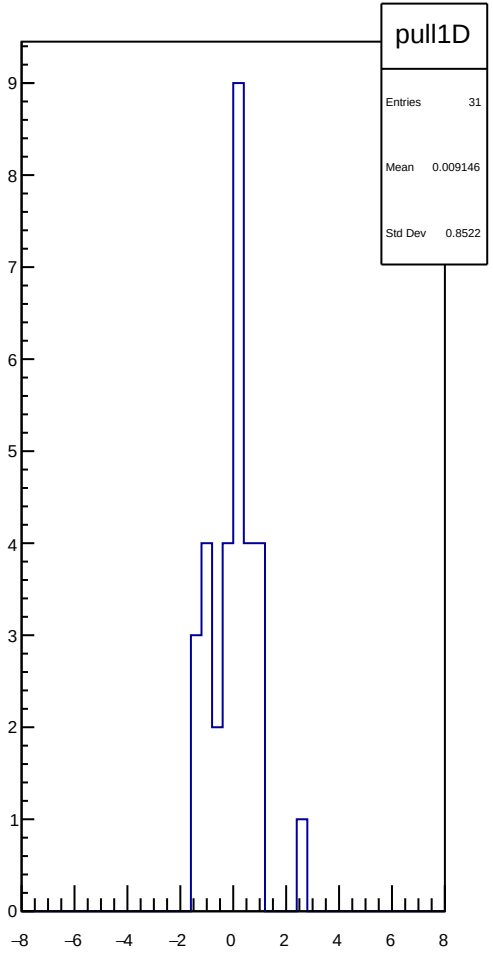

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2153 / 30
p0 8991 ± 11.67
10000
9500
9000
8500
8000
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

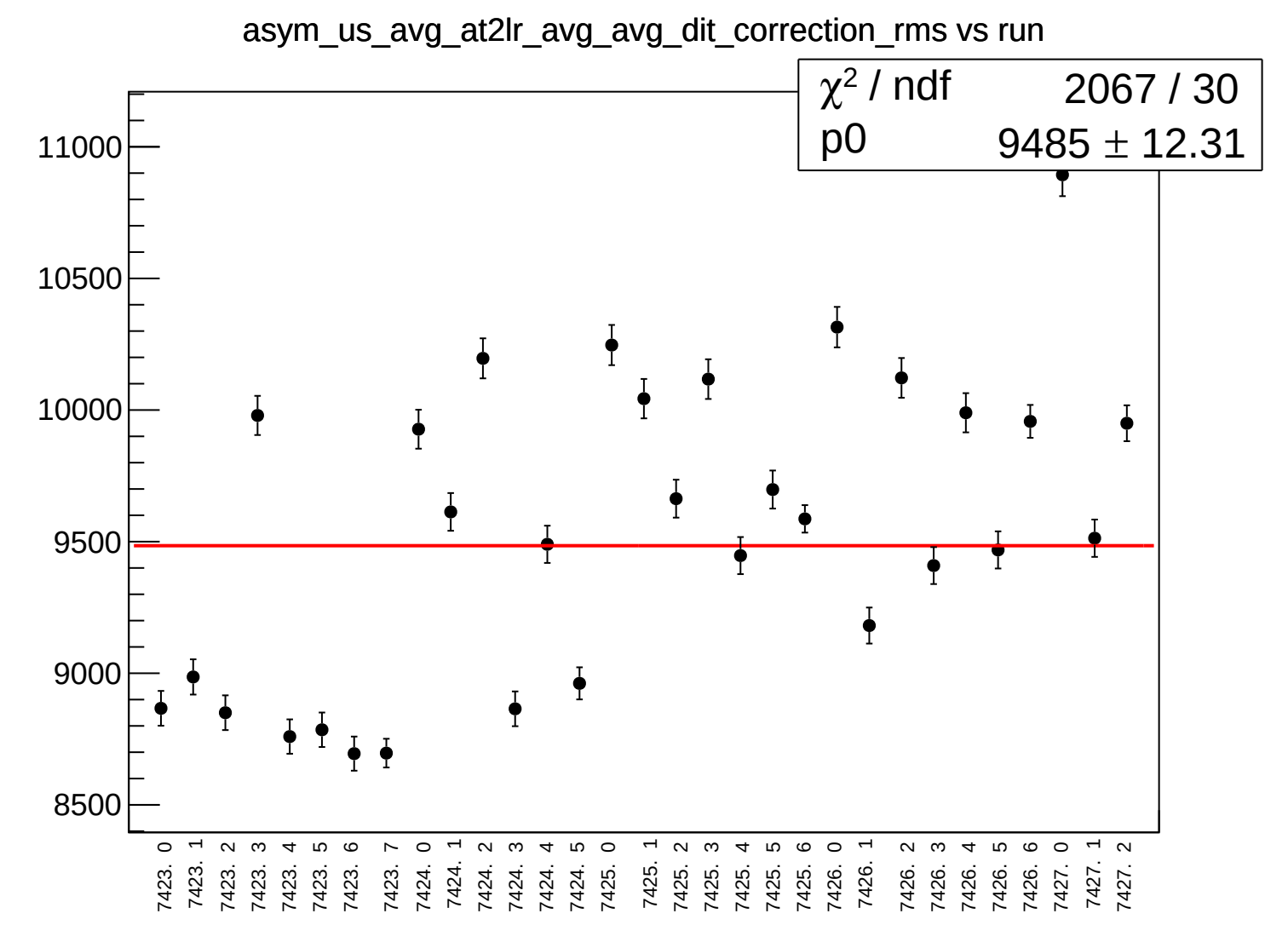

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 17.68 / 30
p0 −1403 ± 4117
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −731.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

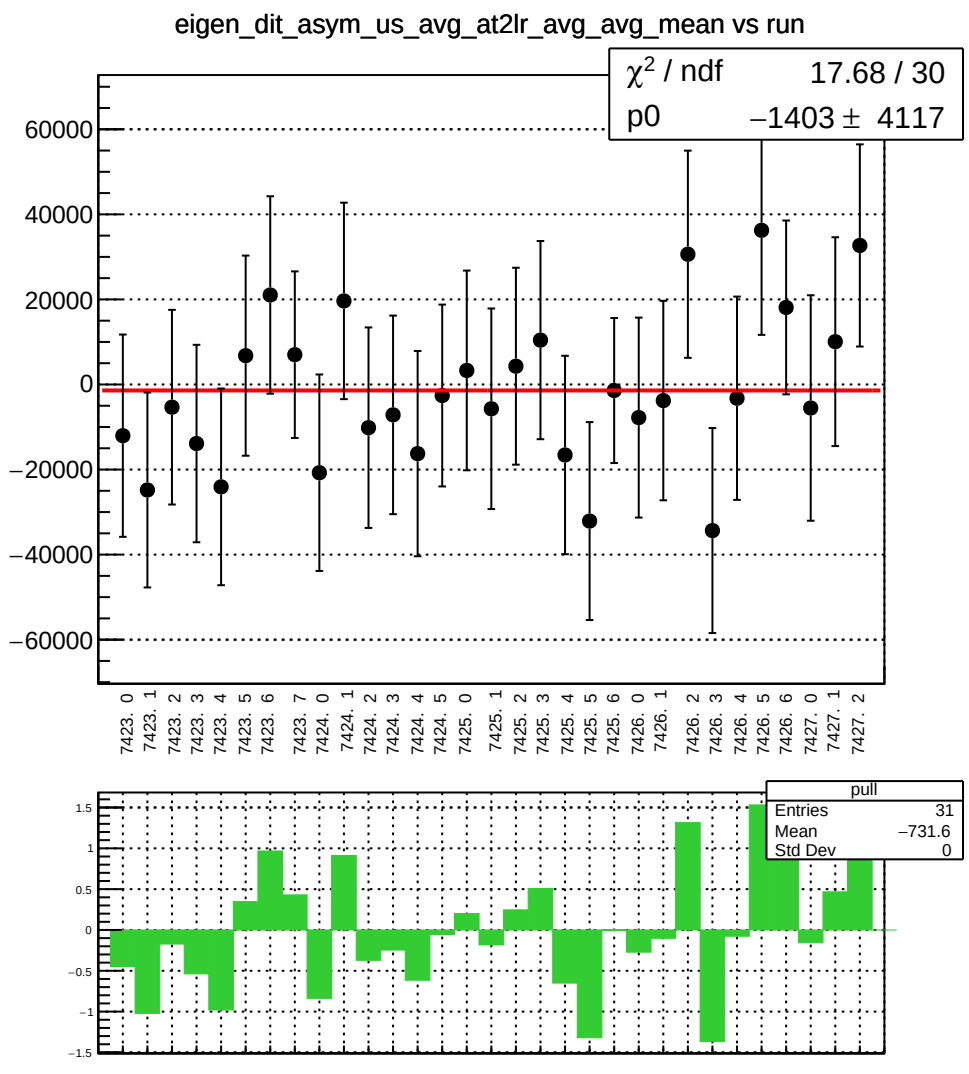

pull1D
Entries 31
Mean −0.003166
Std Dev 0.7551
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

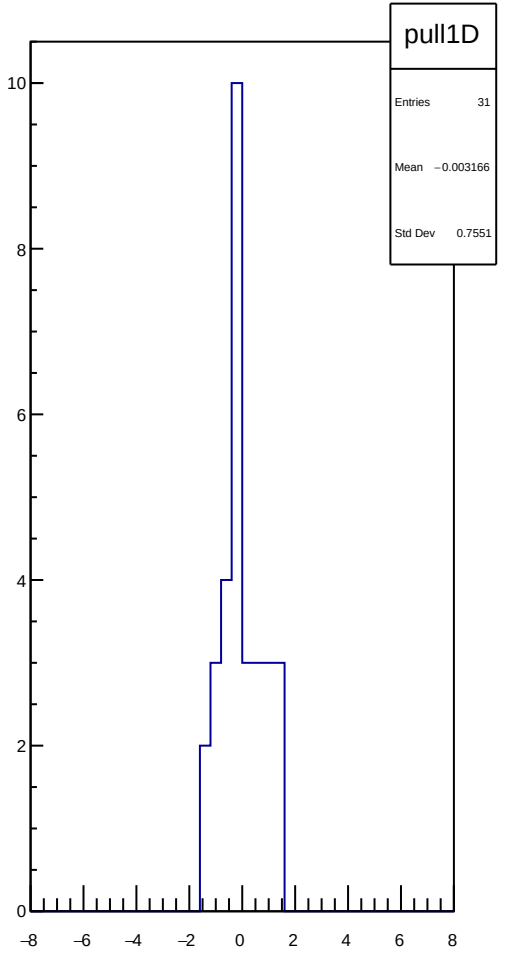

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 586.5 / 30
p0 2245 ± 2.911
2550
2500
2450
2400
2350
2300
2250
2200
2150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

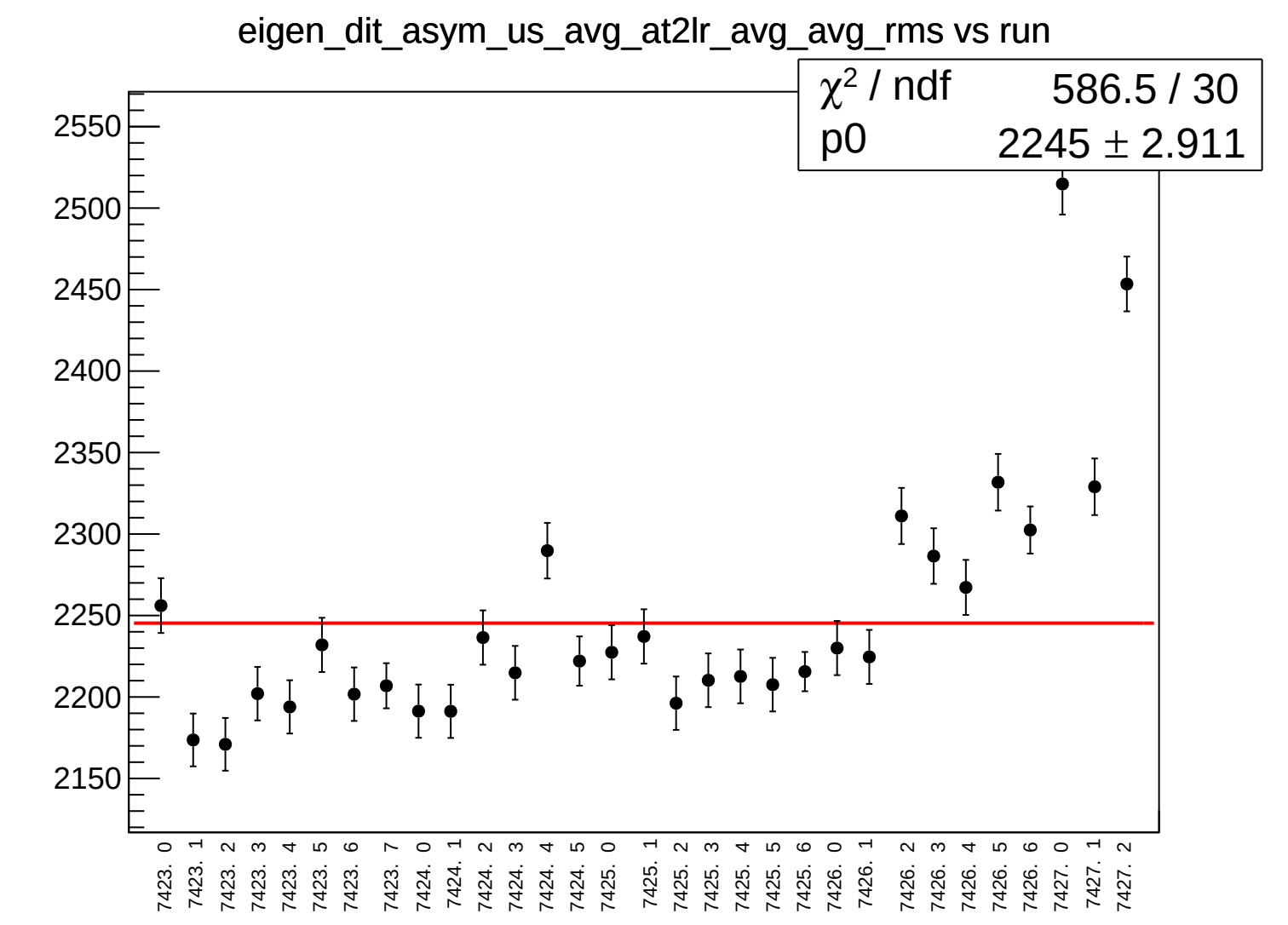

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 22.51 / 30
p0 8918 ± 1.741e+04
400
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 391.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

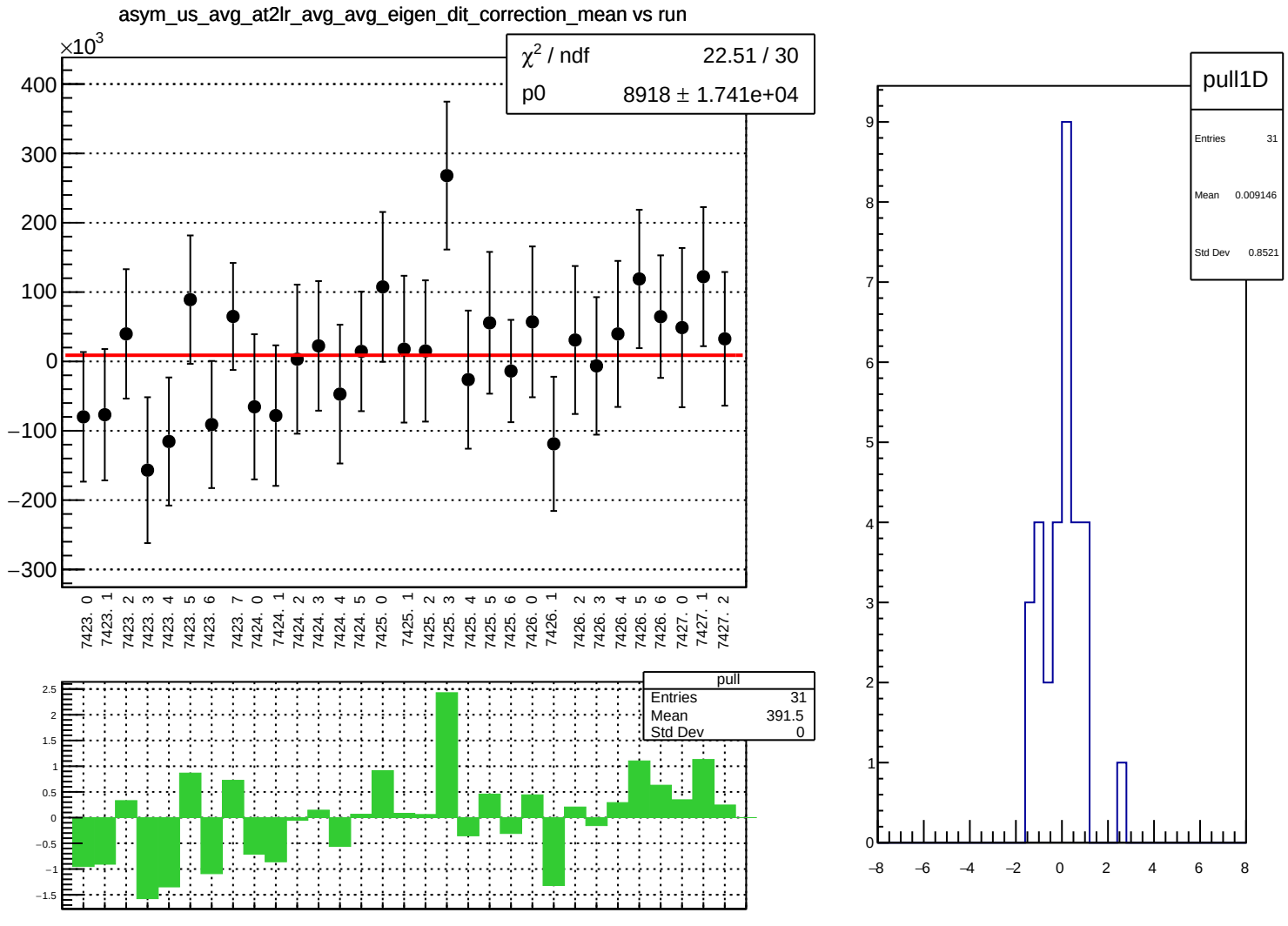

pull1D
Entries 31
Mean 0.009146
Std Dev 0.8522
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

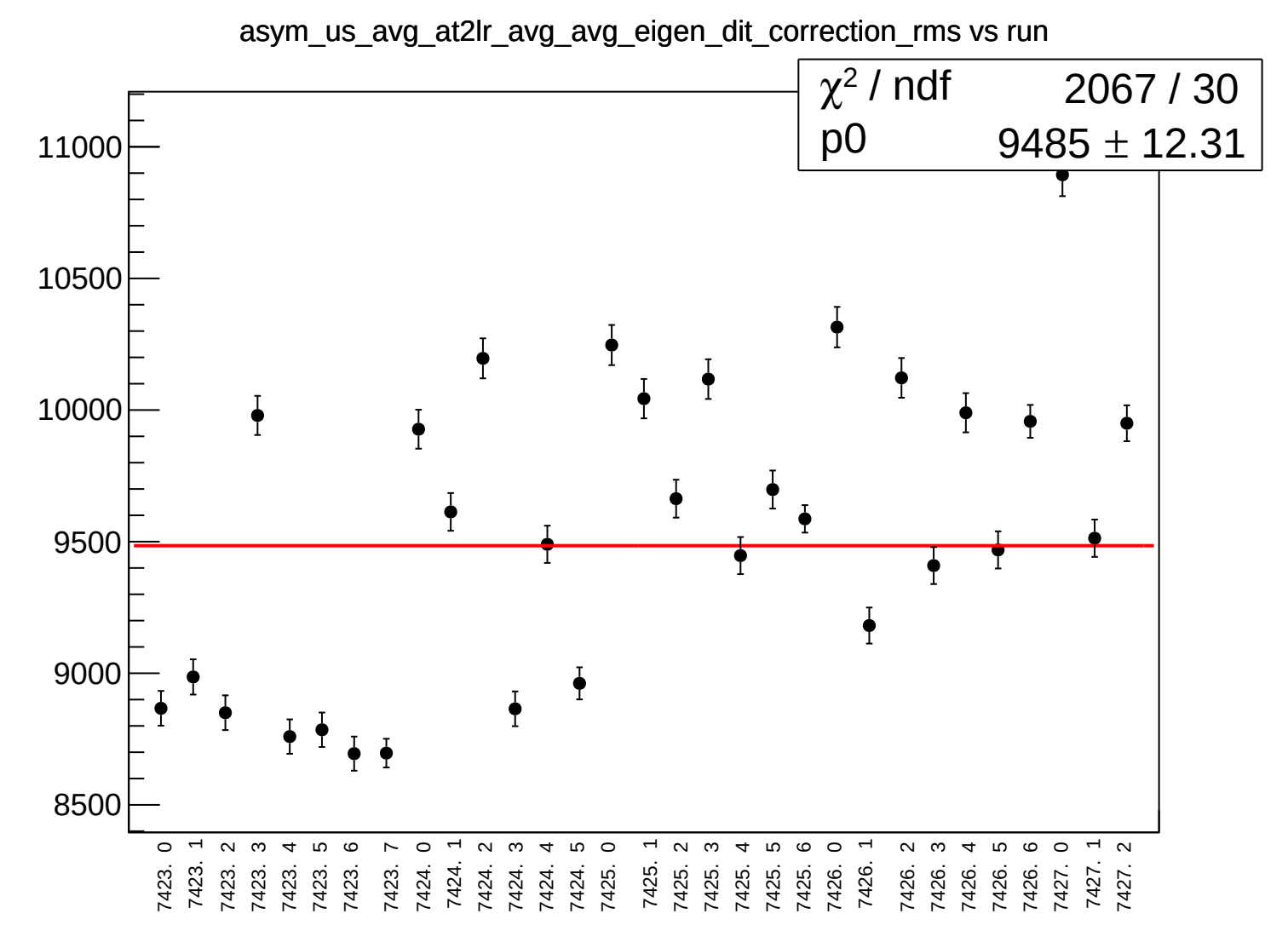

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2067 / 30
p0 9485 ± 12.31
11000
10500
10000
9500
9000
8500
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

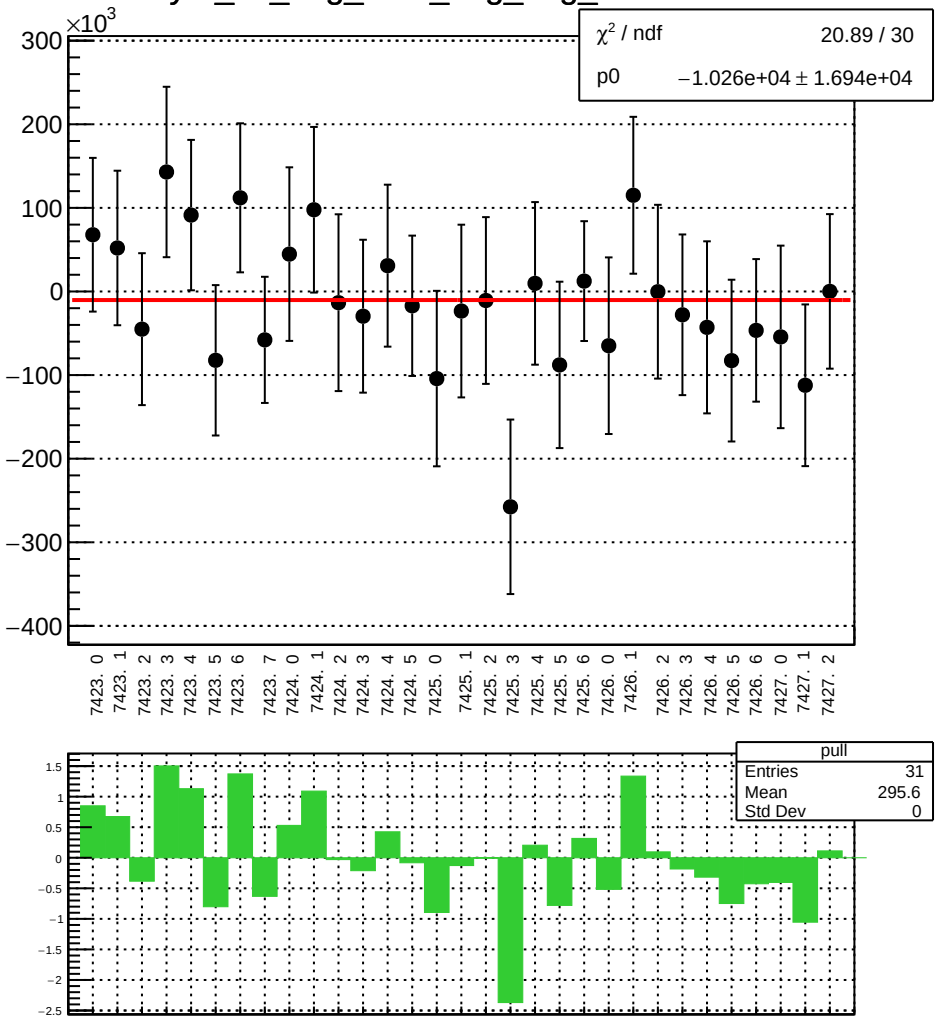

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 17.68 / 30
p0 −1403 ± 4117
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −731.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

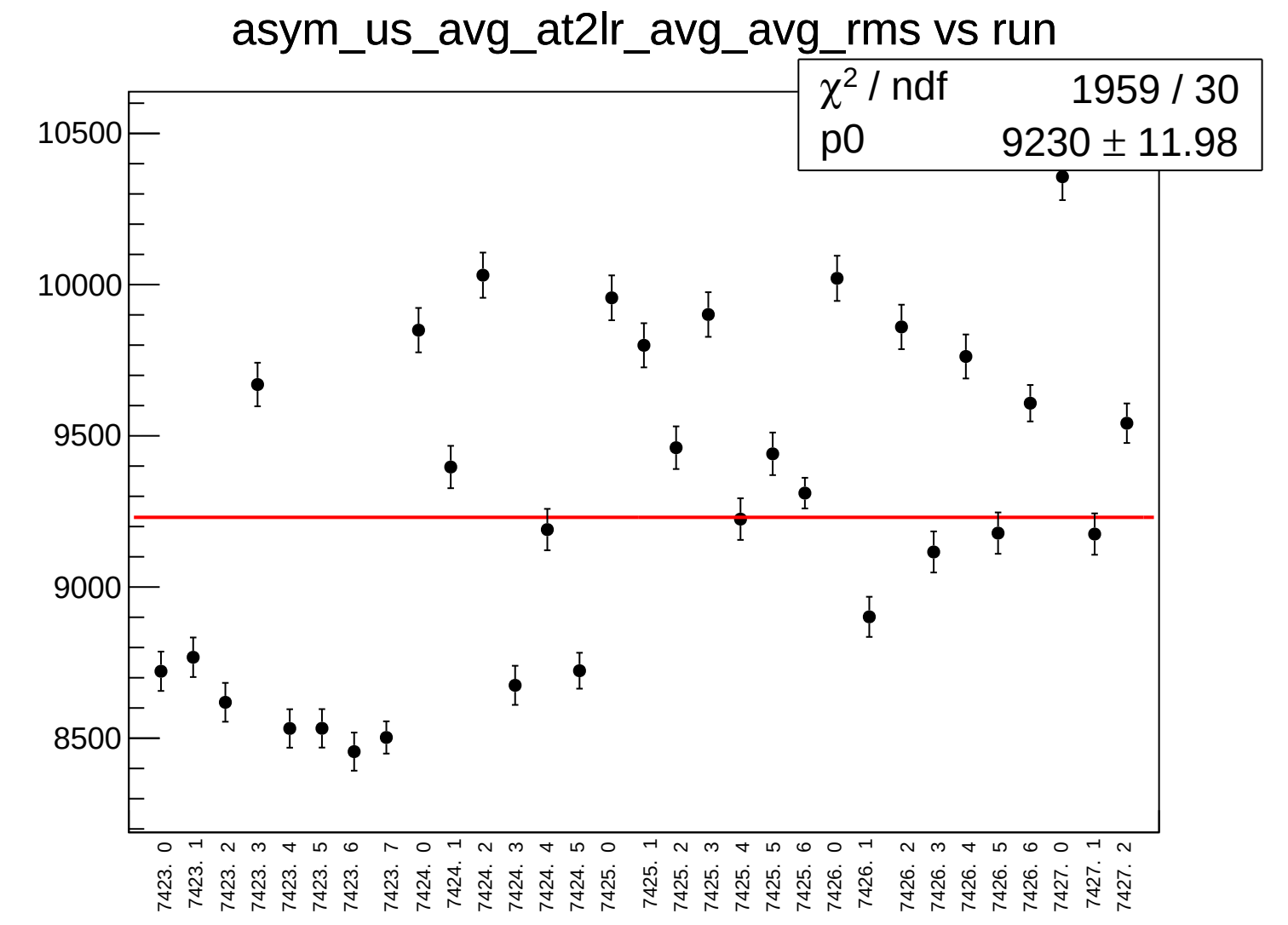

pull1D
Entries 31
Mean −0.003166
Std Dev 0.7551
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

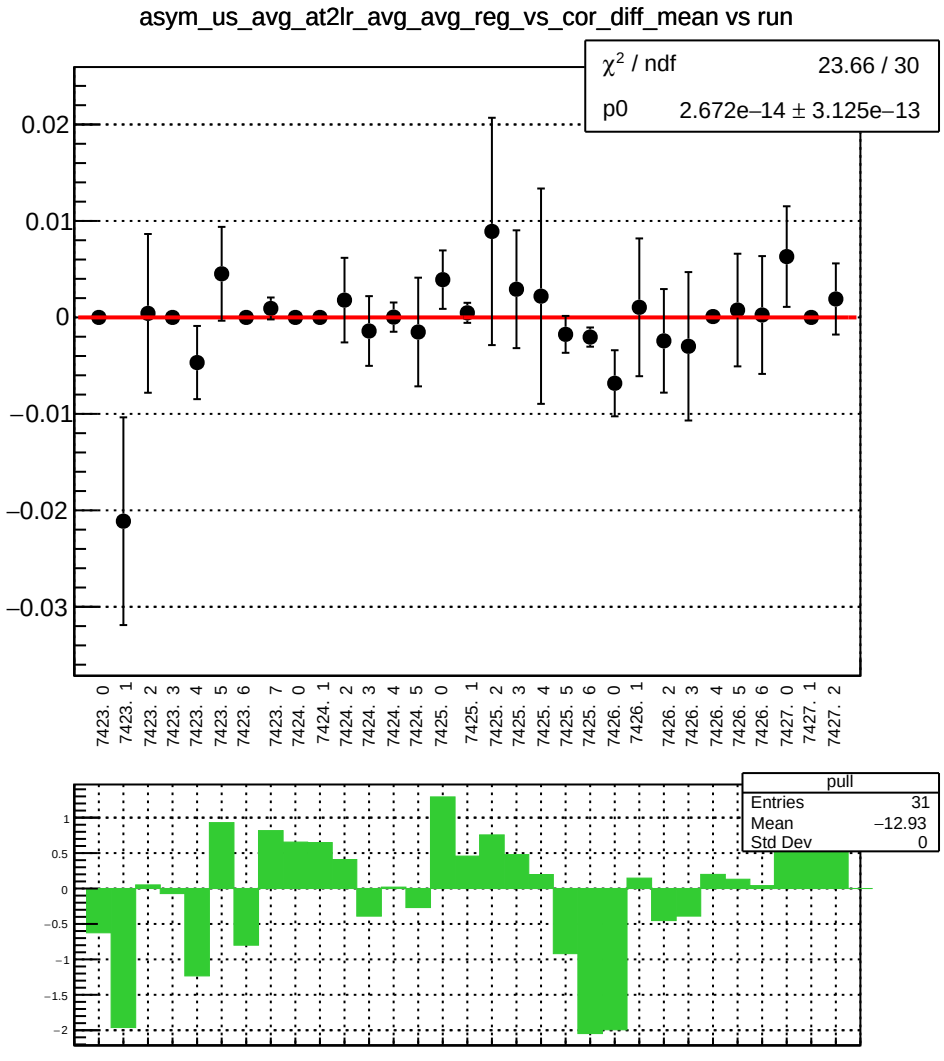

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 586.5 / 30
p0 2245 ± 2.911
2550
2500
2450
2400
2350
2300
2250
2200
2150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

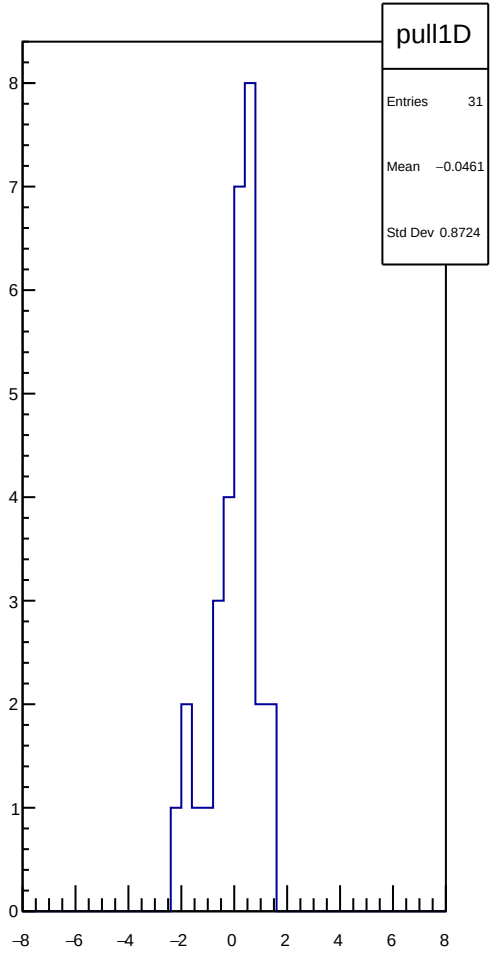

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.51 / 30
p0 8918 ± 1.741e+04
400
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 391.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.009146
Std Dev 0.8521
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

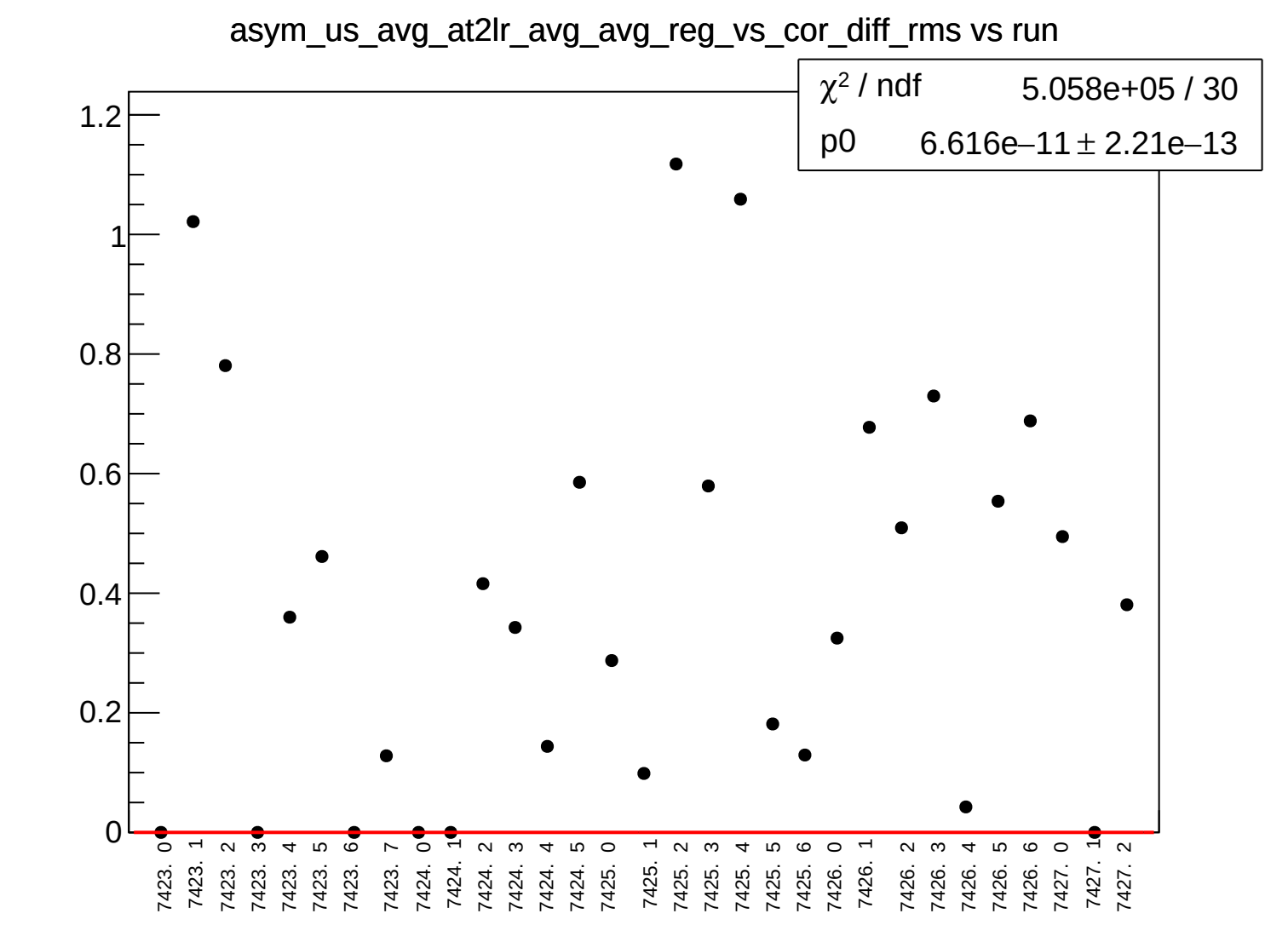

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2067 / 30
p0 9485 ± 12.31
11000
10500
10000
9500
9000
8500
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

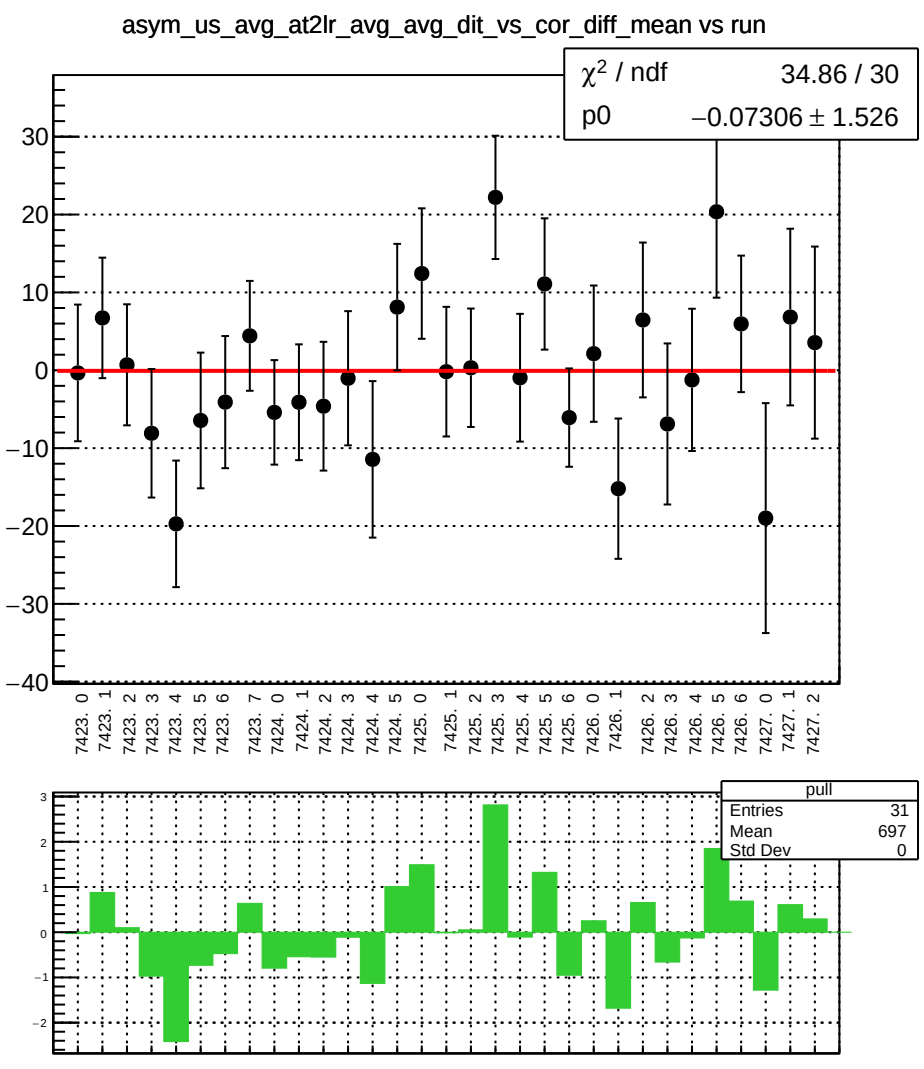

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 20.89 / 30
p0 −1.026e+04 ± 1.694e+04
pull
Entries 31
Mean 295.6
Std Dev 0
pull1D
Entries 31
Mean −0.01054
Std Dev 0.8208

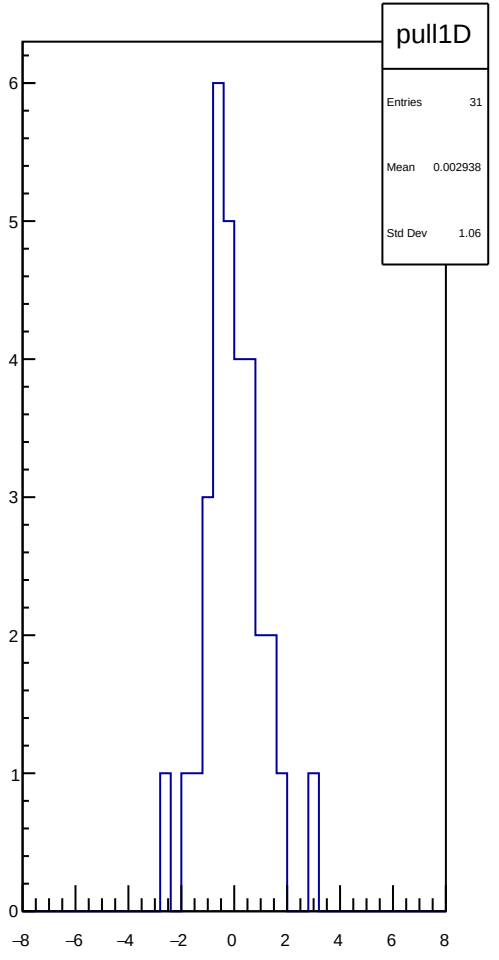

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1959 / 30
p0 9230 ± 11.98
10500
10000
9500
9000
8500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

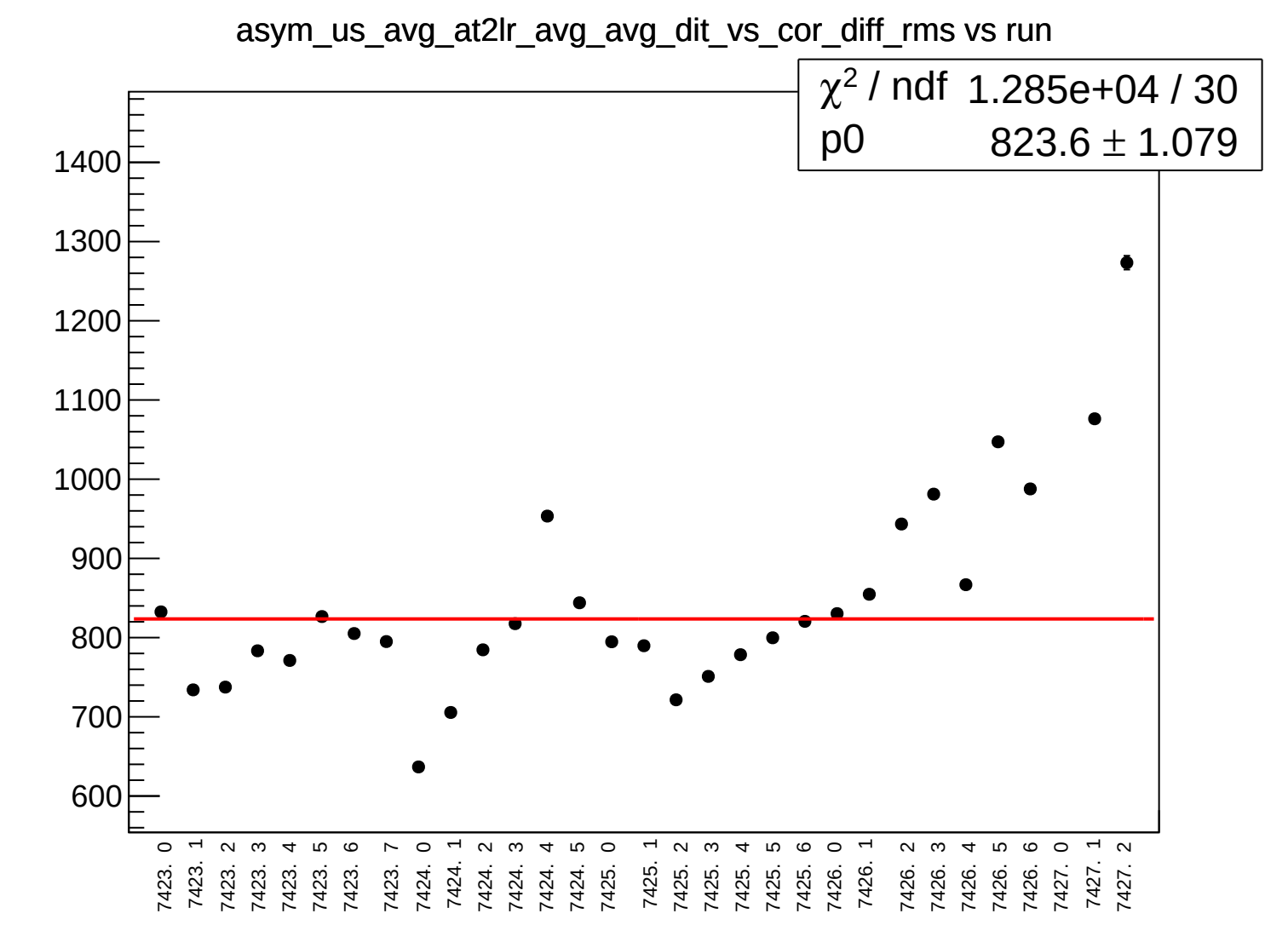

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.66 / 30
p0 2.672e−14 ± 3.125e−13
0.02
0.01
0
−0.01
−0.02
−0.03
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −12.93
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

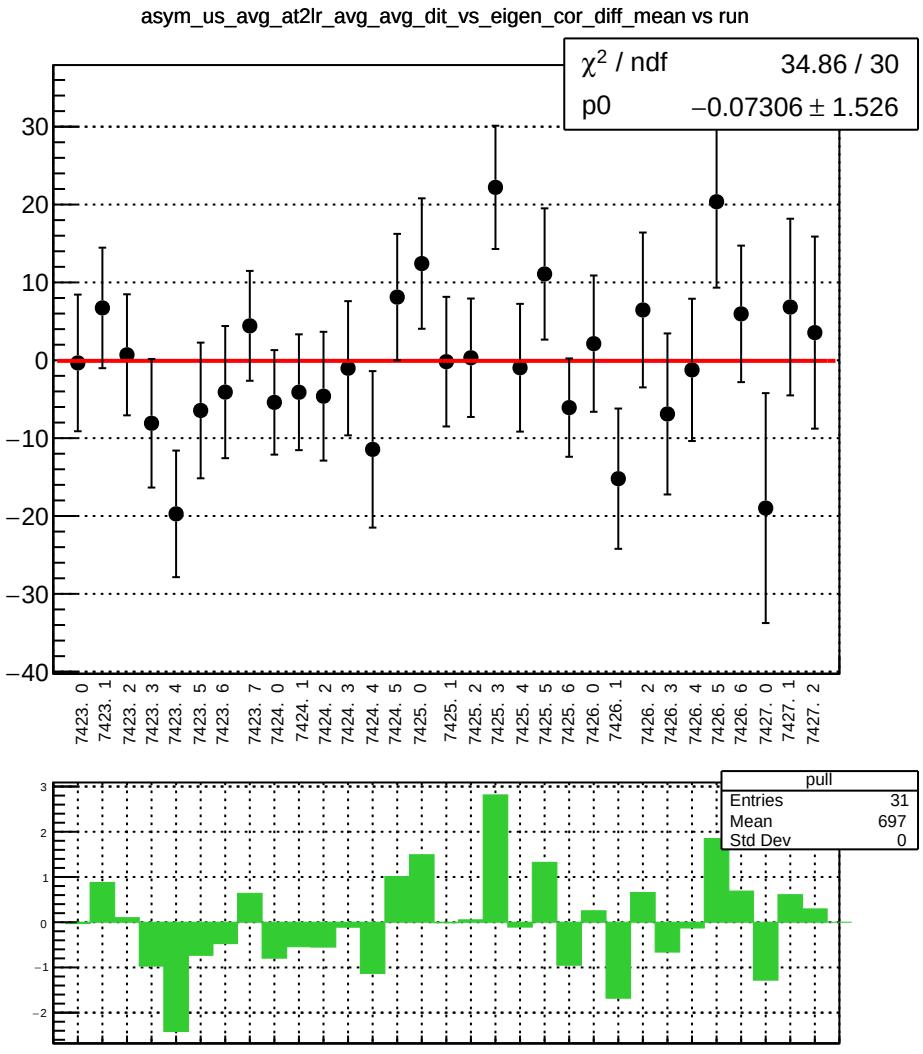

pull1D
Entries 31
Mean −0.0461
Std Dev 0.8724
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

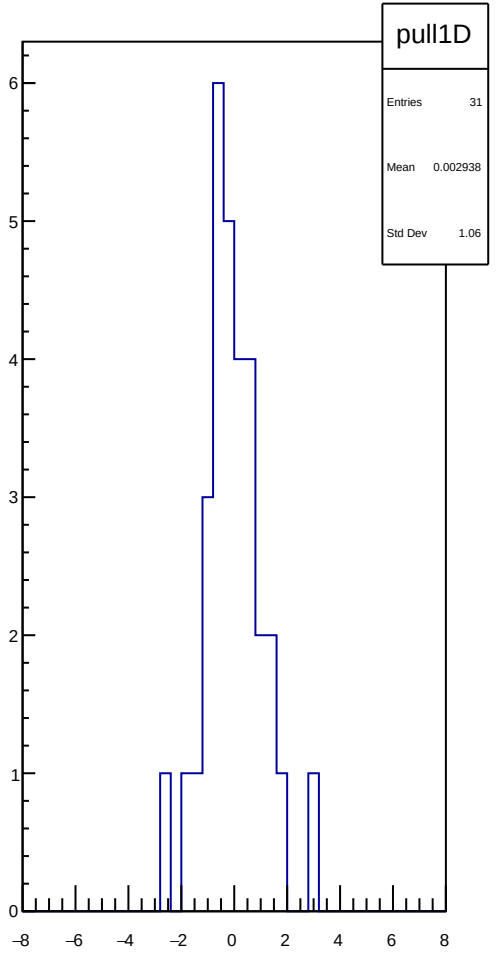

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.058e+05 / 30
p0 6.616e−11 ± 2.21e−13
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

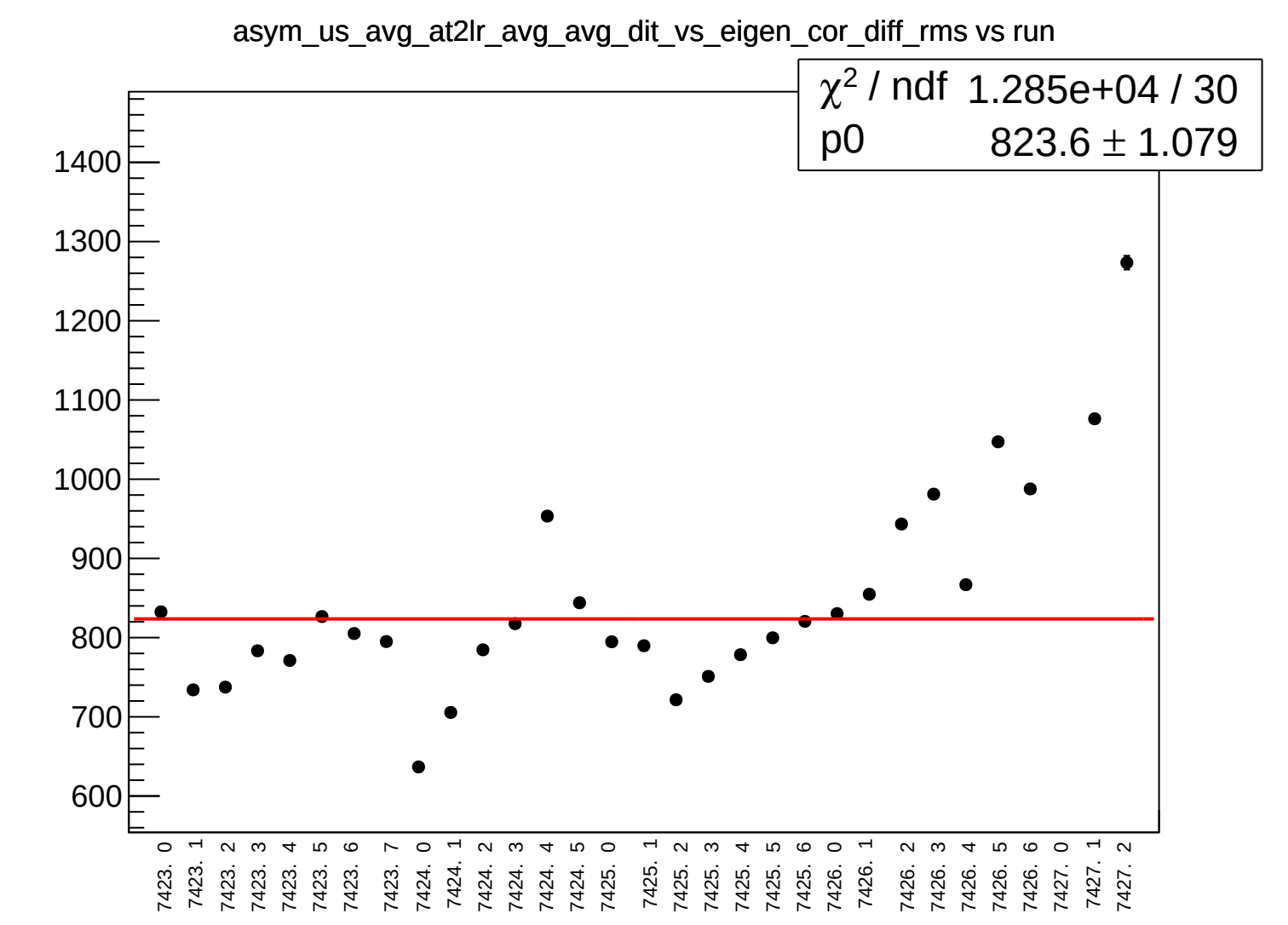

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.86 / 30
p0 −0.07306 ± 1.526
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 697
Std Dev 0
3
2
1
0
−1
−2

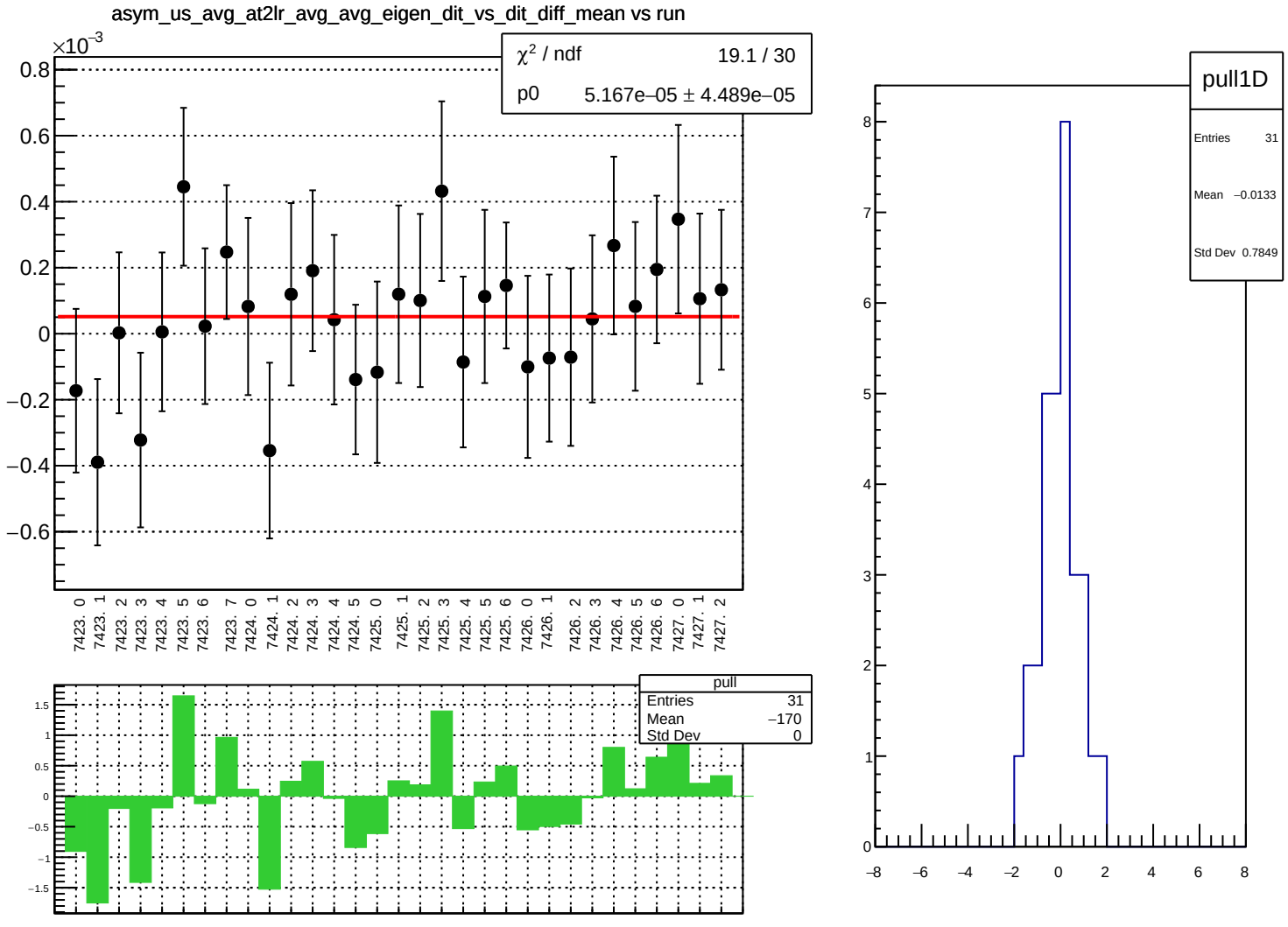

pull1D
Entries 31
Mean 0.002938
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

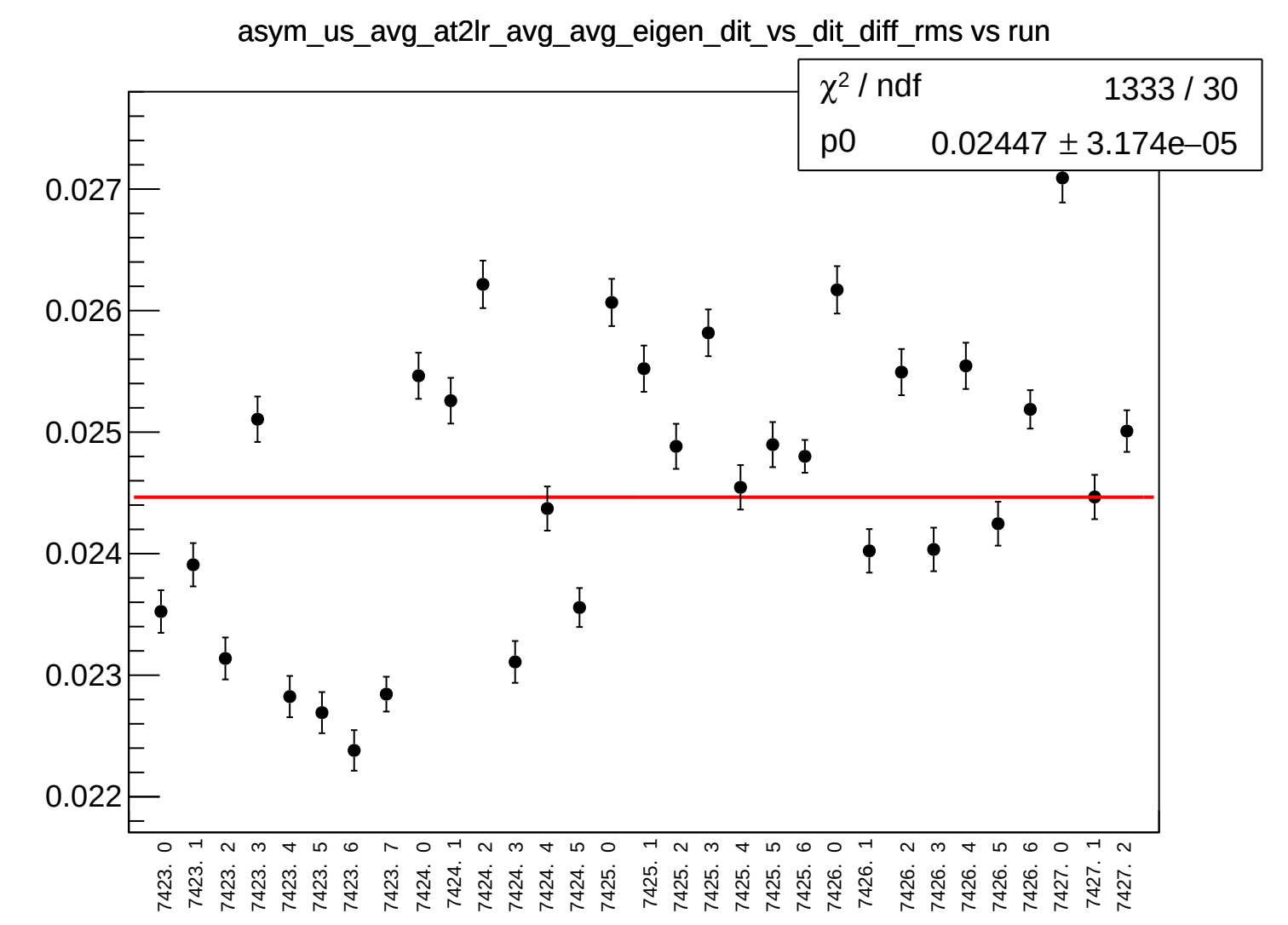

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.285e+04 / 30
p0 823.6 ± 1.079
1400
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

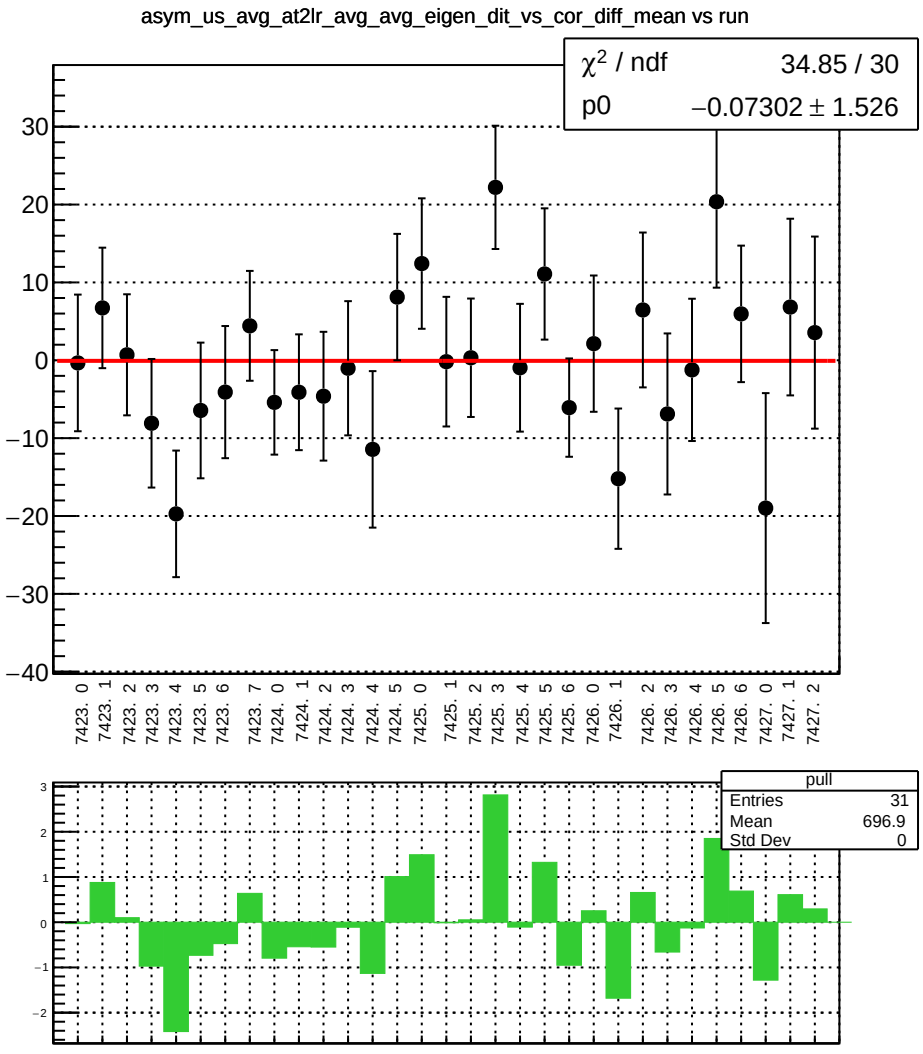

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.86 / 30
p0 −0.07306 ± 1.526
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 697
Std Dev 0
3
2
1
0
−1
−2

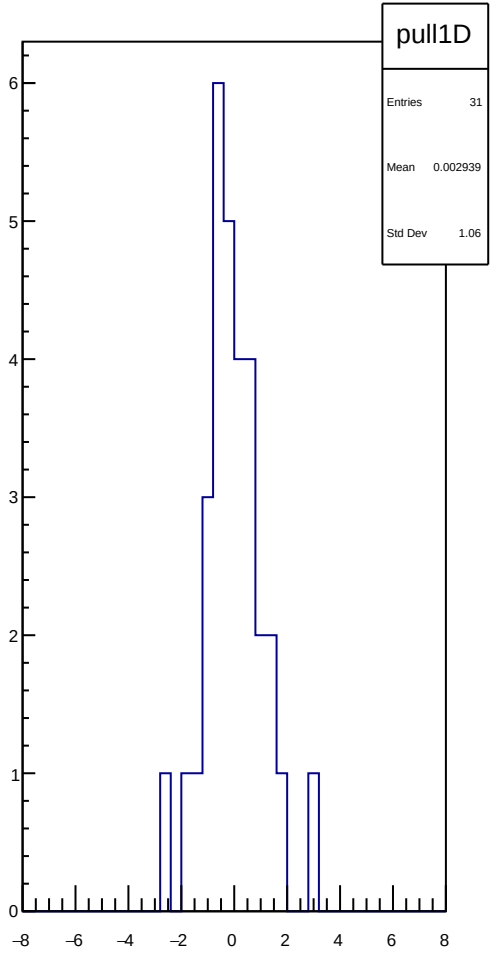

pull1D
Entries 31
Mean 0.002938
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

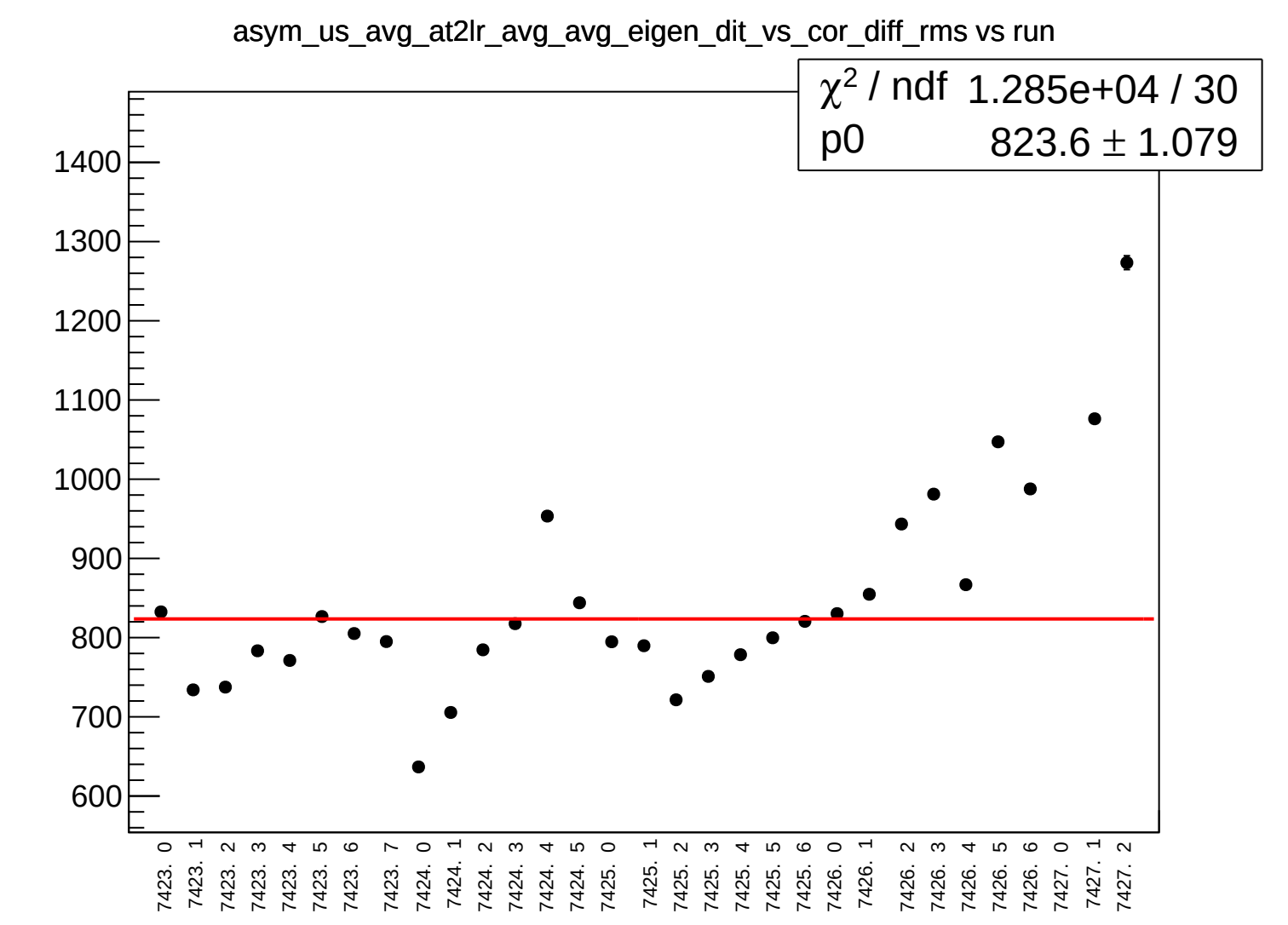

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.285e+04 / 30
p0 823.6 ± 1.079
1400
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

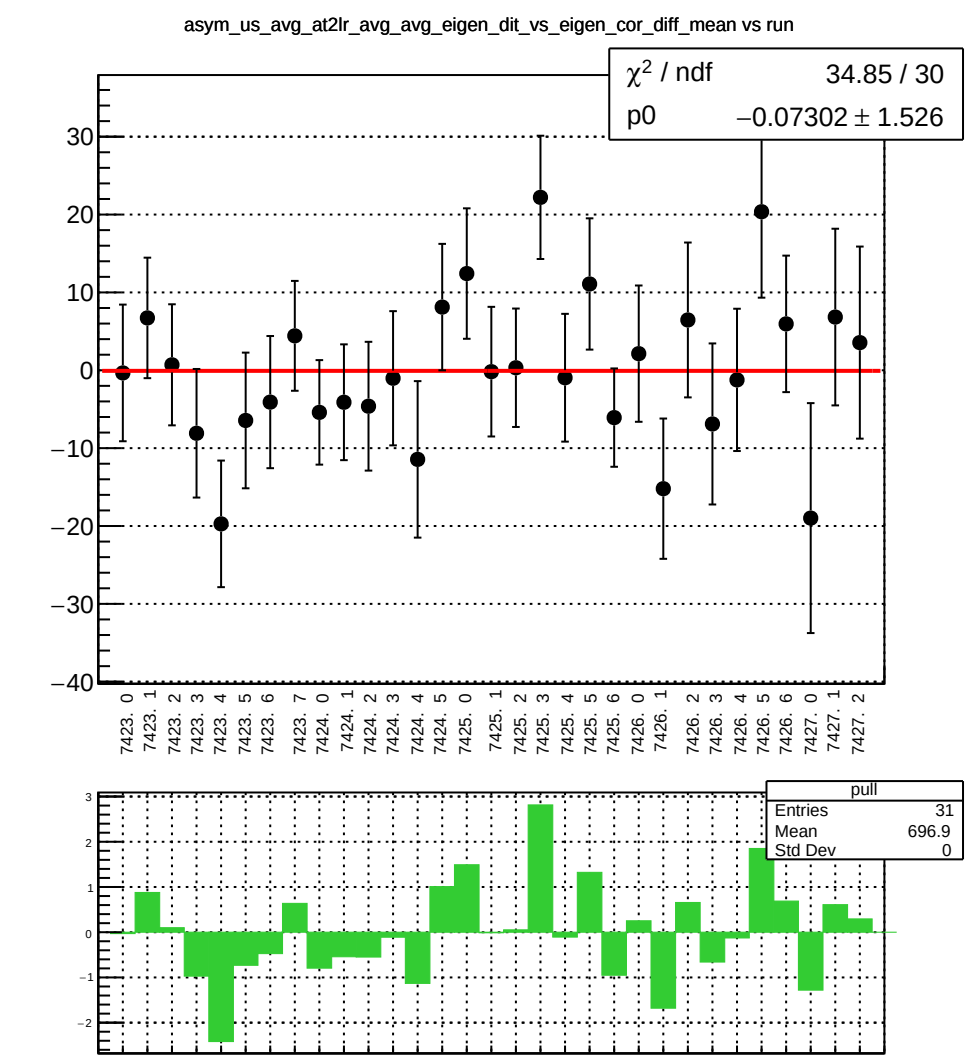

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.1 / 30
p0 5.167e−05 ± 4.489e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −170
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.0133
Std Dev 0.7849
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

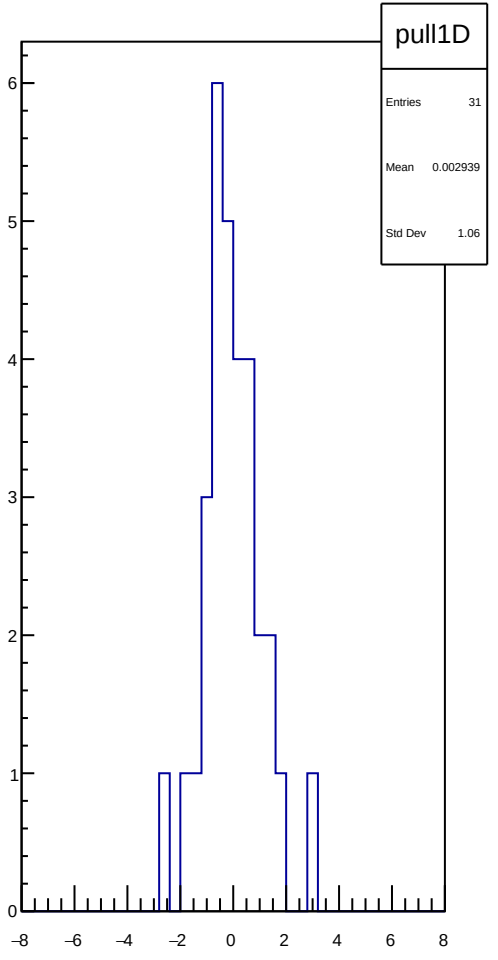

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1333 / 30
p0 0.02447 ± 3.174e–05
0.027
0.026
0.025
0.024
0.023
0.022
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

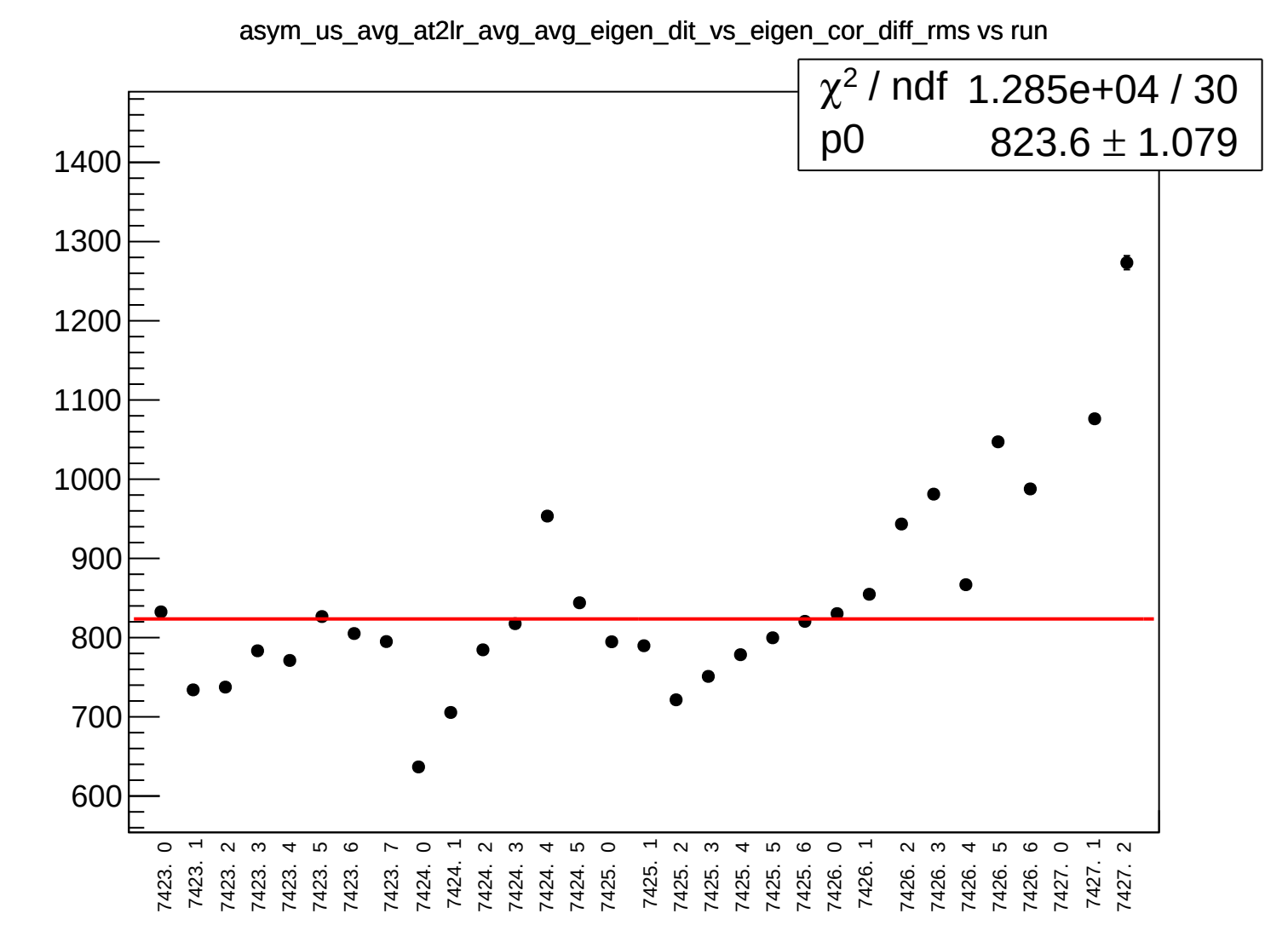

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.85 / 30
p0 −0.07302 ± 1.526
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 696.9
Std Dev 0
3
2
1
0
−1
−2

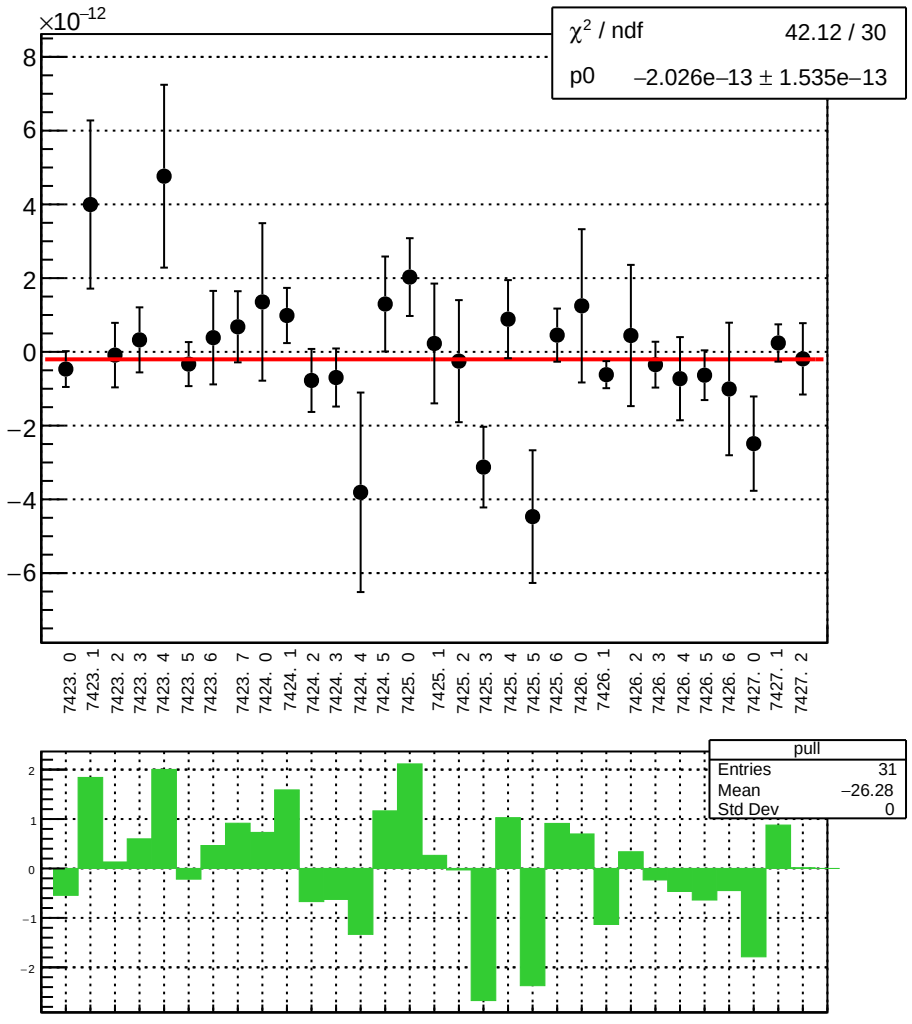

pull1D
Entries 31
Mean 0.002939
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

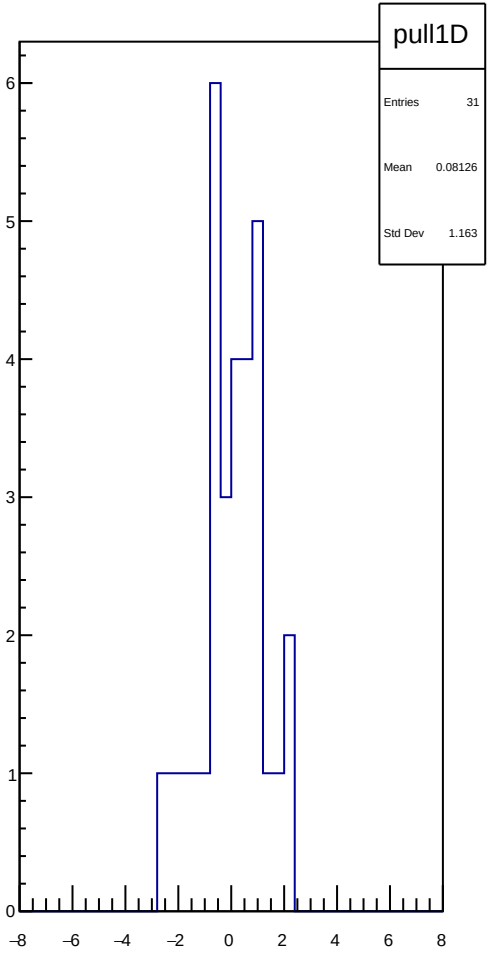

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.285e+04 / 30
p0 823.6 ± 1.079
1400
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

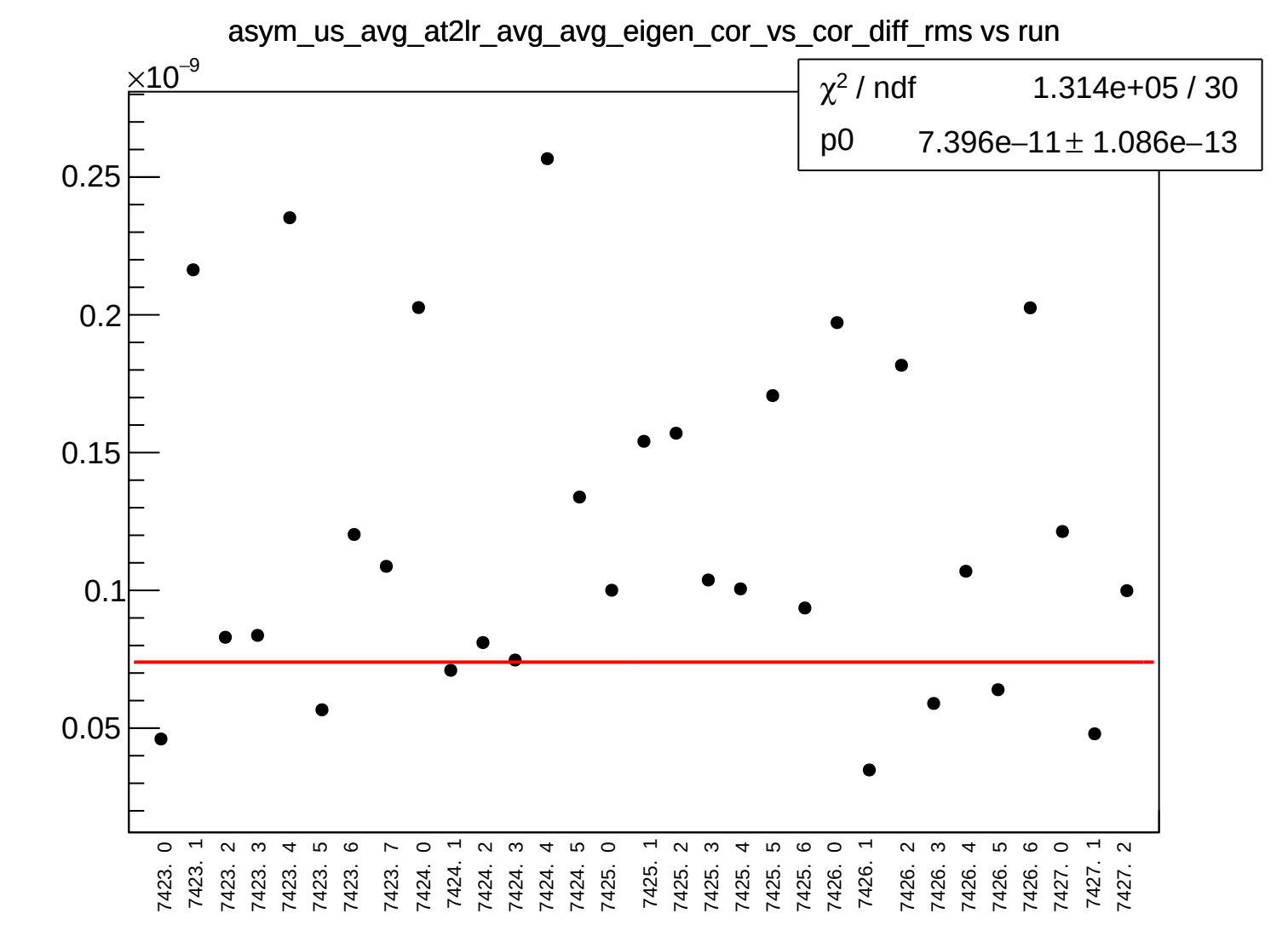

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.85 / 30
p0 −0.07302 ± 1.526
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 696.9
Std Dev 0
3
2
1
0
−1
−2

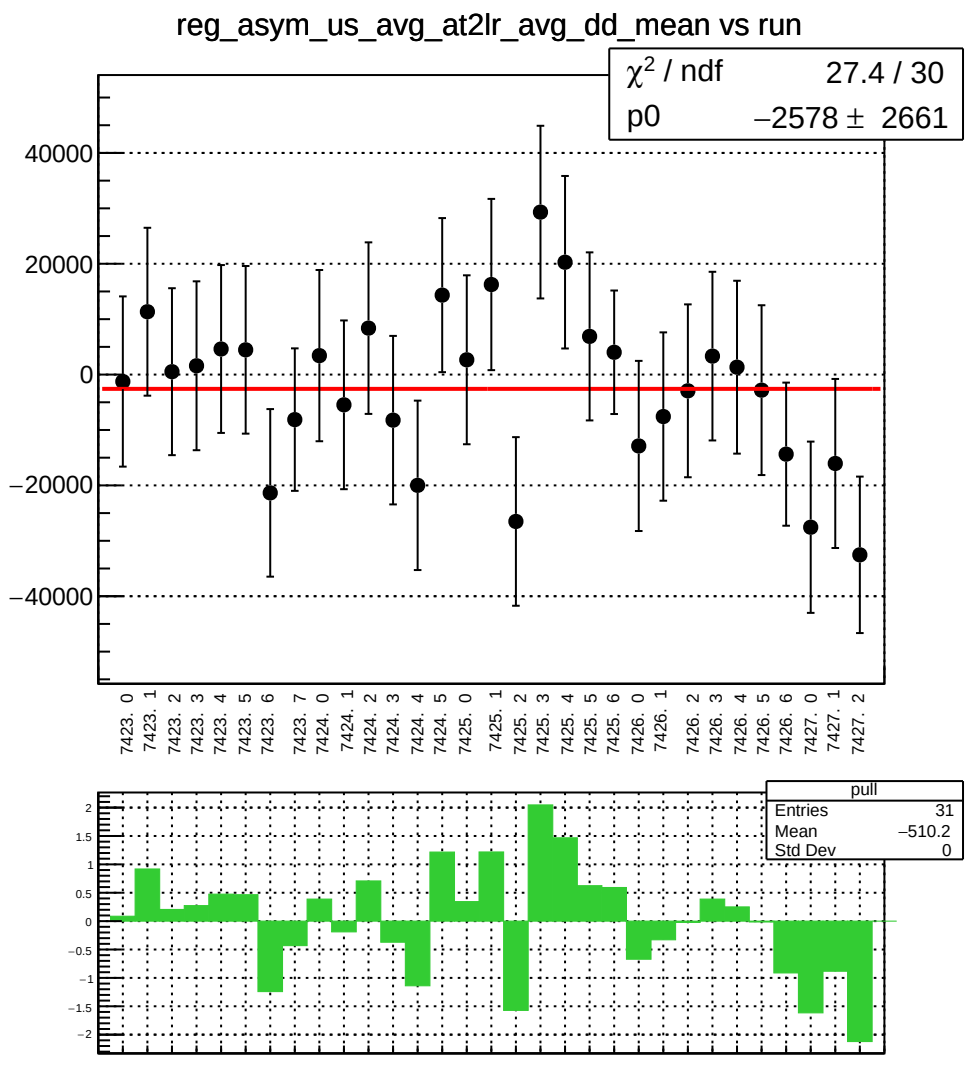

pull1D
Entries 31
Mean 0.002939
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

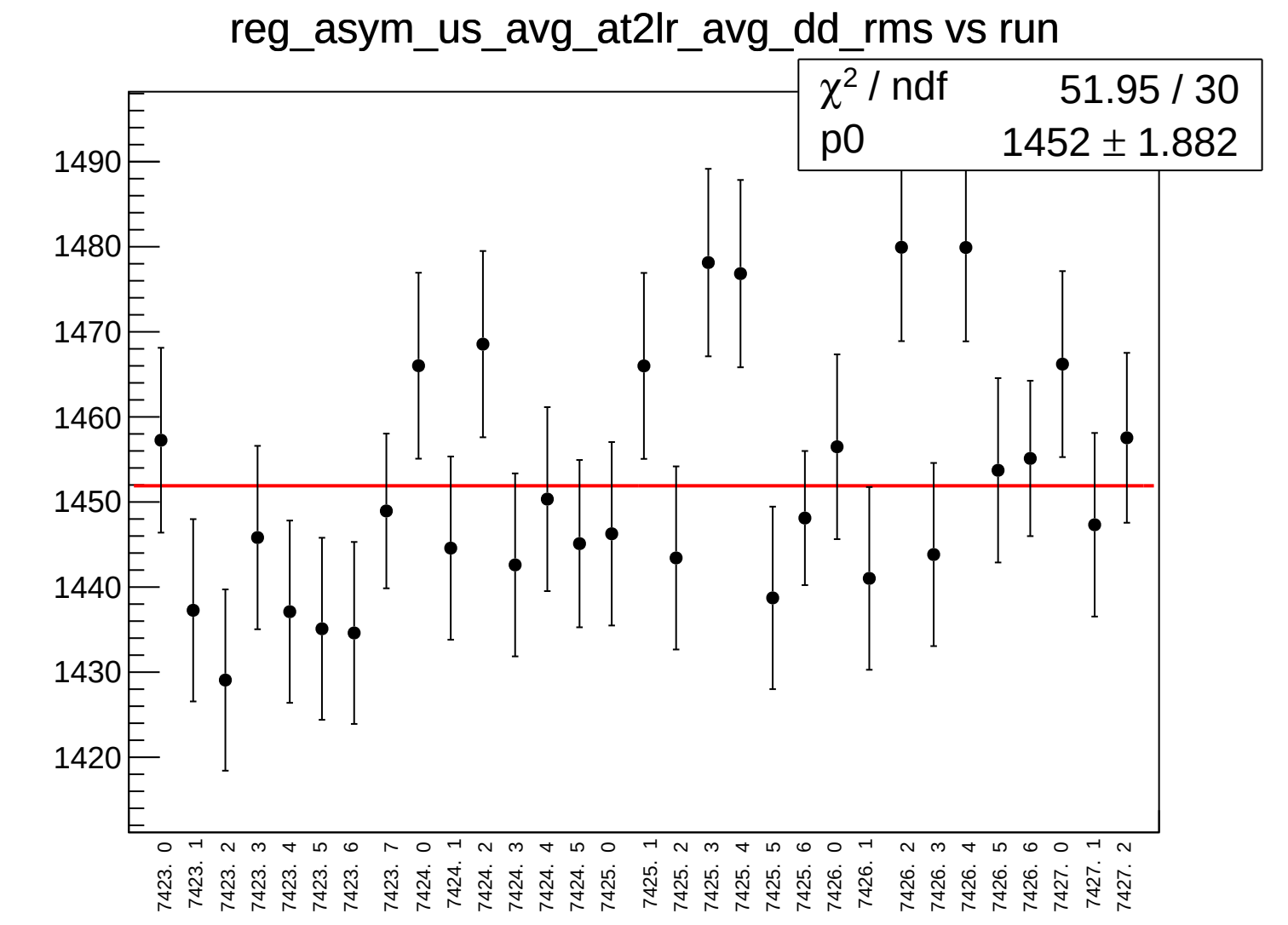

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.285e+04 / 30
p0 823.6 ± 1.079
1400
1300
1200
1100
1000
900
800
700
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

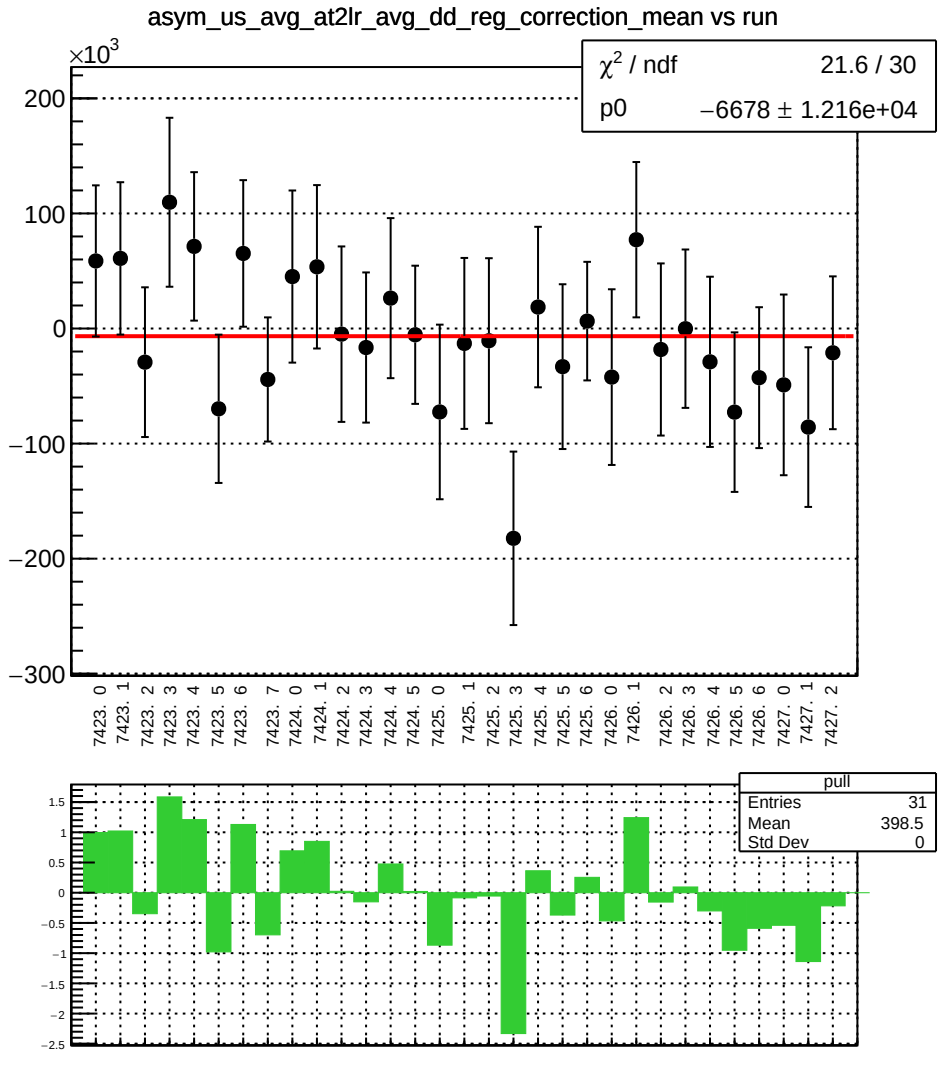

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.12 / 30
p0 −2.026e−13 ± 1.535e−13
pull
Entries 31
Mean −26.28
Std Dev 0

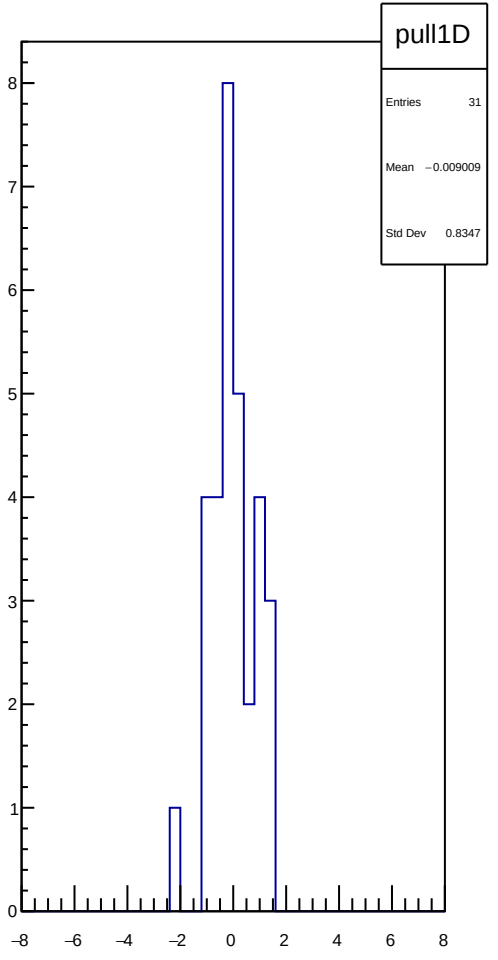

pull1D
Entries 31
Mean 0.08126
Std Dev 1.163

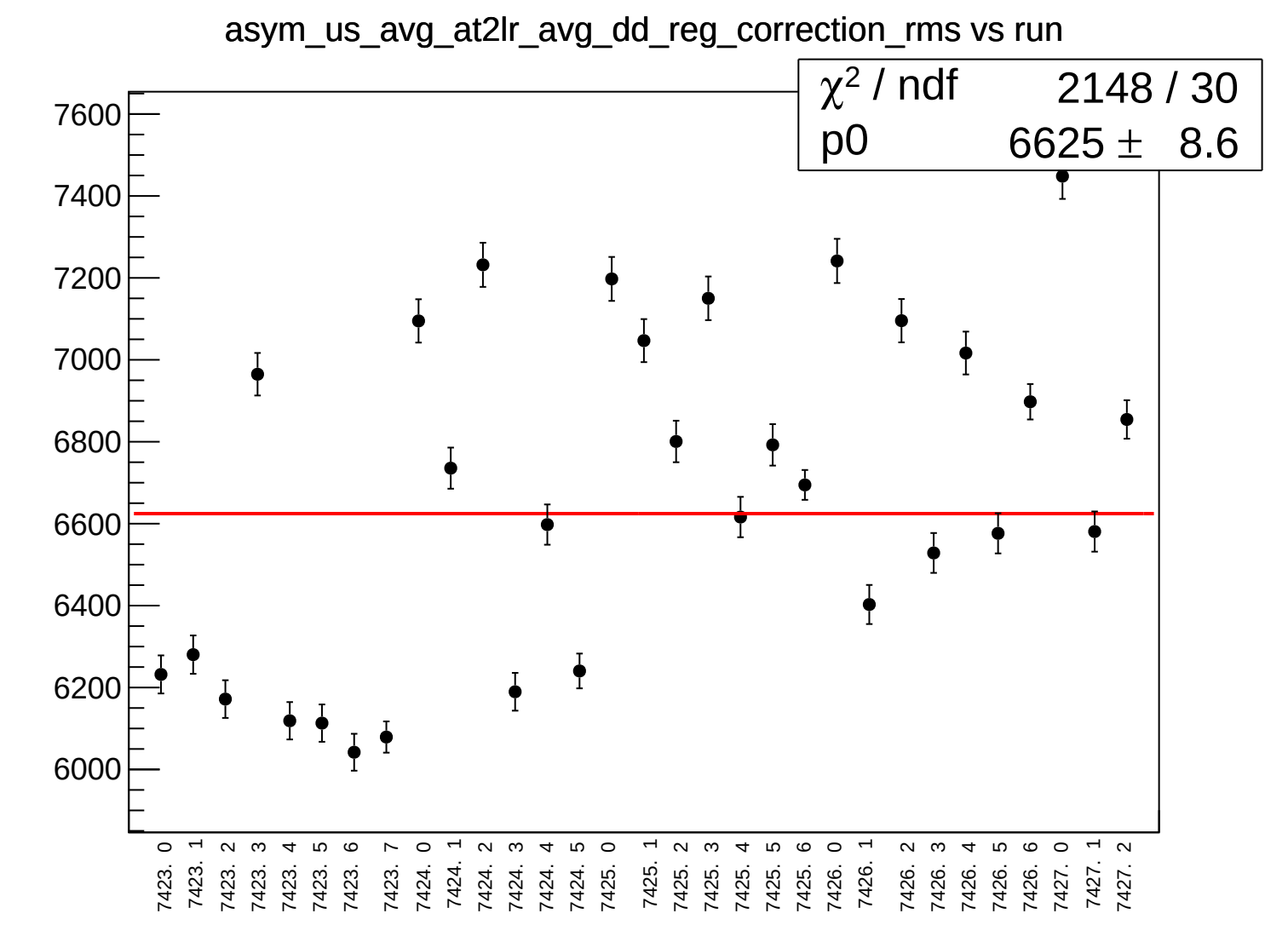

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.314e+05 / 30
p0 7.396e−11 ± 1.086e−13
0.25
0.2
0.15
0.1
0.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

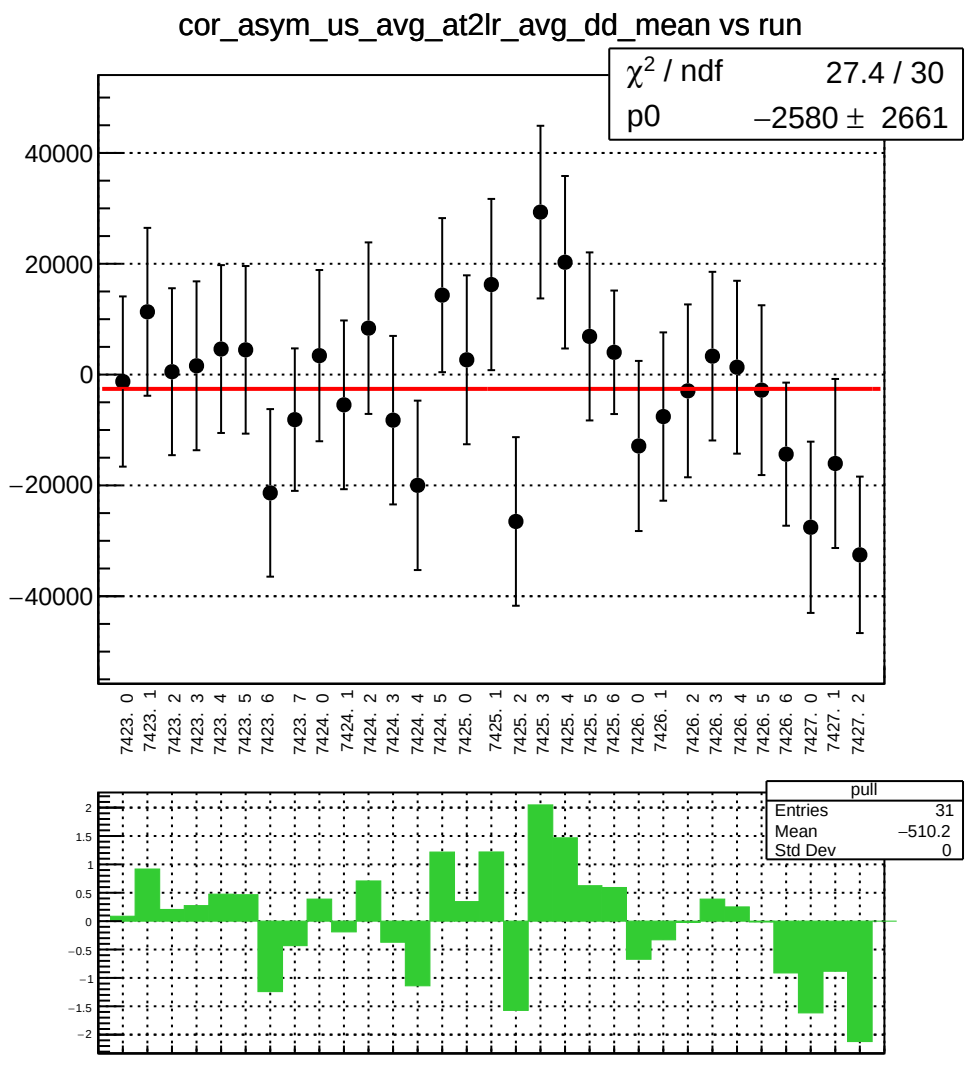

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 27.4 / 30
p0 −2578 ± 2661
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −510.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.00508
Std Dev 0.9402
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

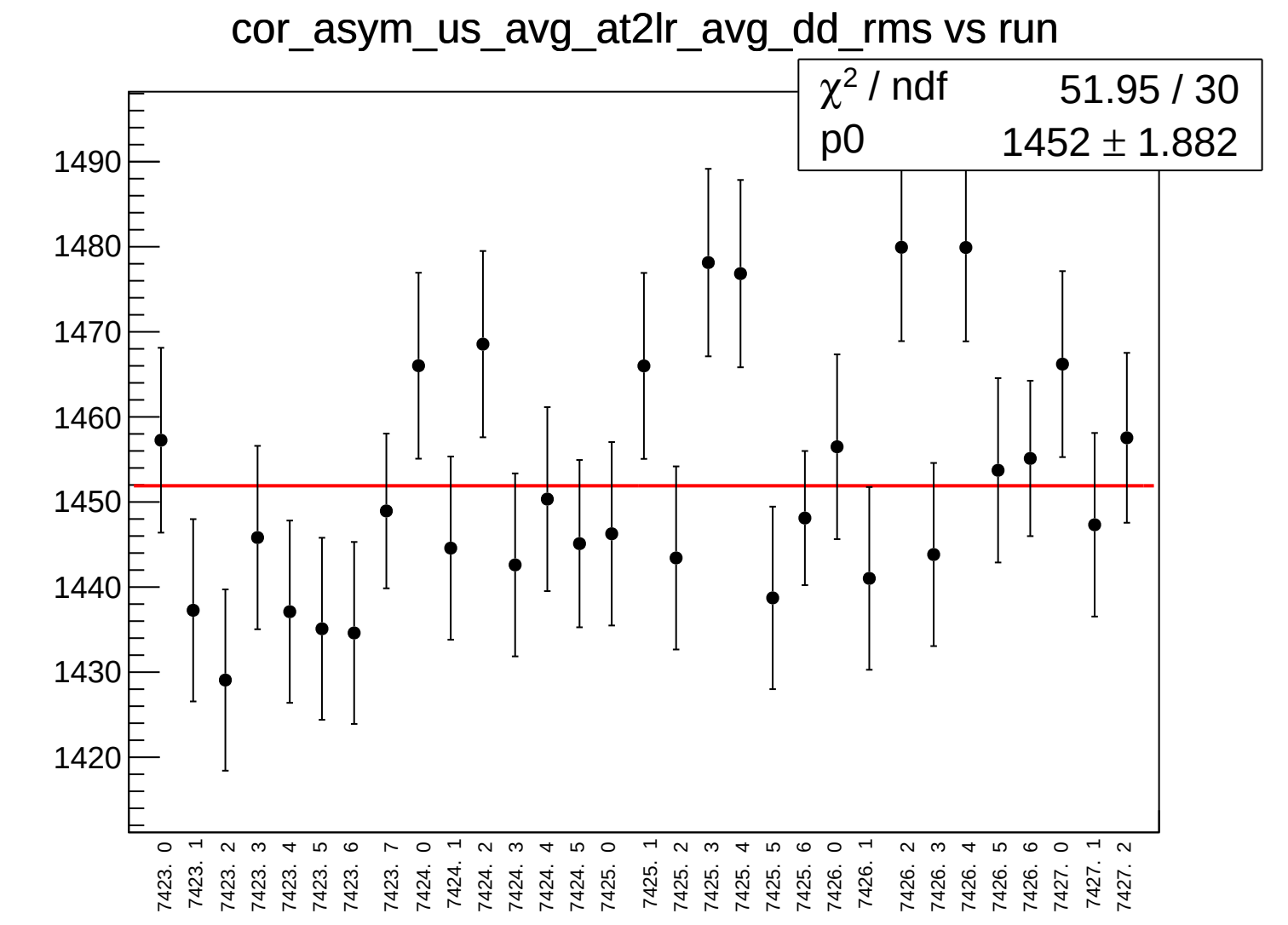

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 51.95 / 30
p0 1452 ± 1.882
1490
1480
1470
1460
1450
1440
1430
1420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

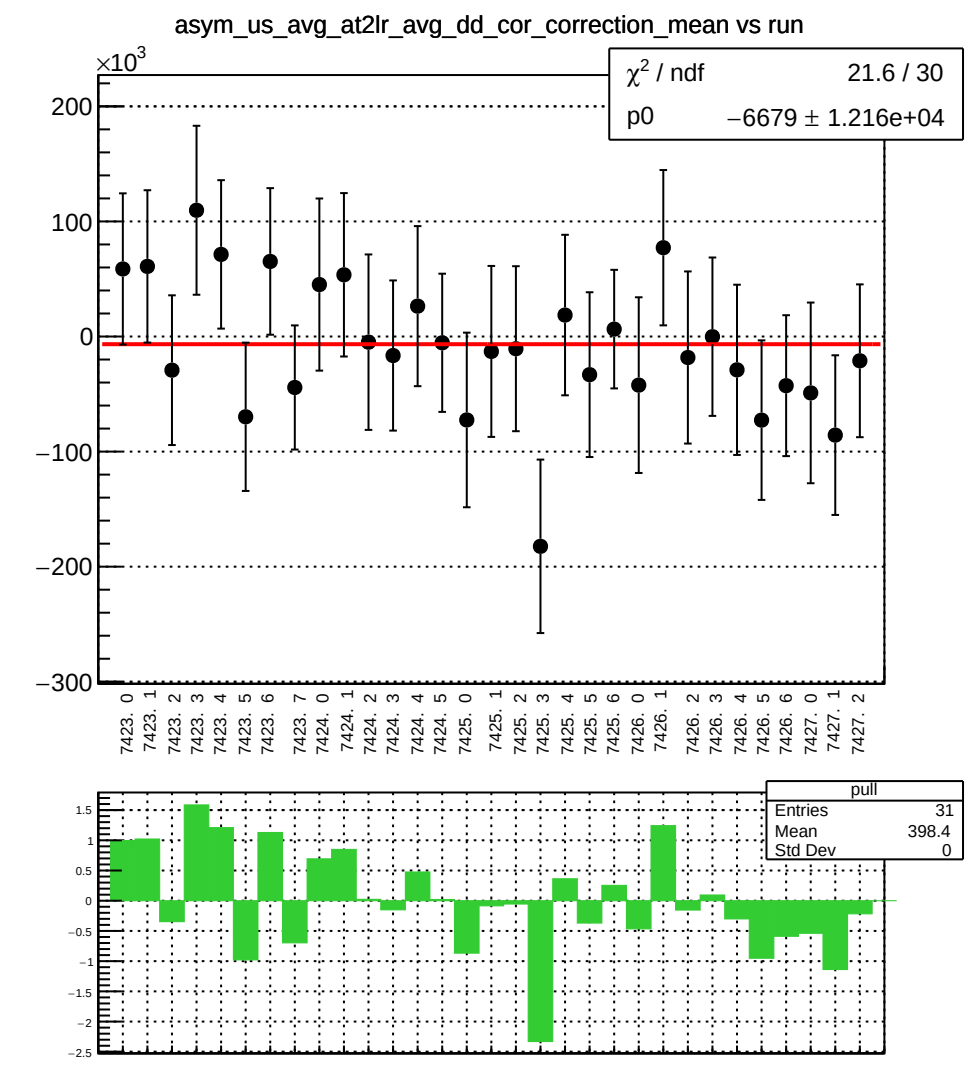

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 21.6 / 30
p0 −6678 ± 1.216e+04
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 398.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

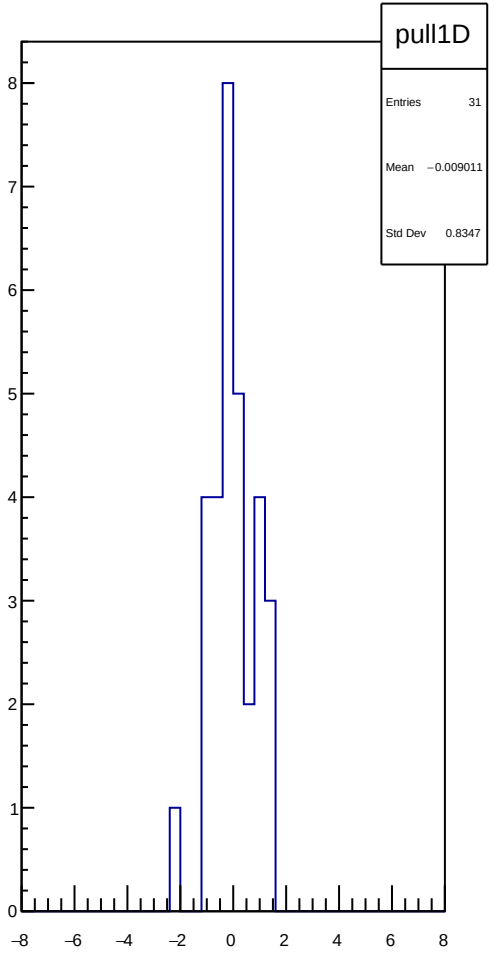

pull1D
Entries 31
Mean −0.009009
Std Dev 0.8347
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

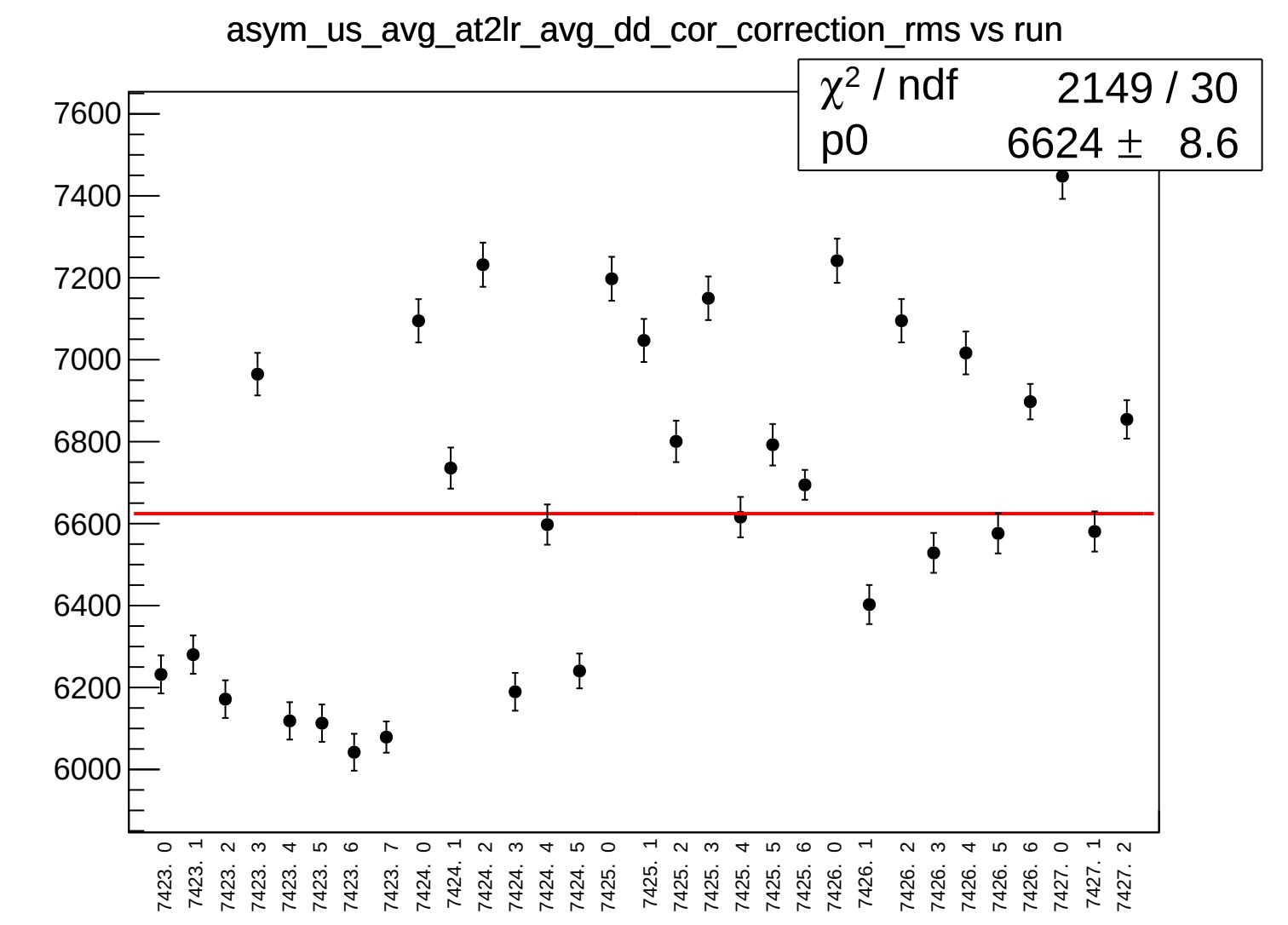

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2148 / 30
p0 6625 ± 8.6
7600
7400
7200
7000
6800
6600
6400
6200
6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

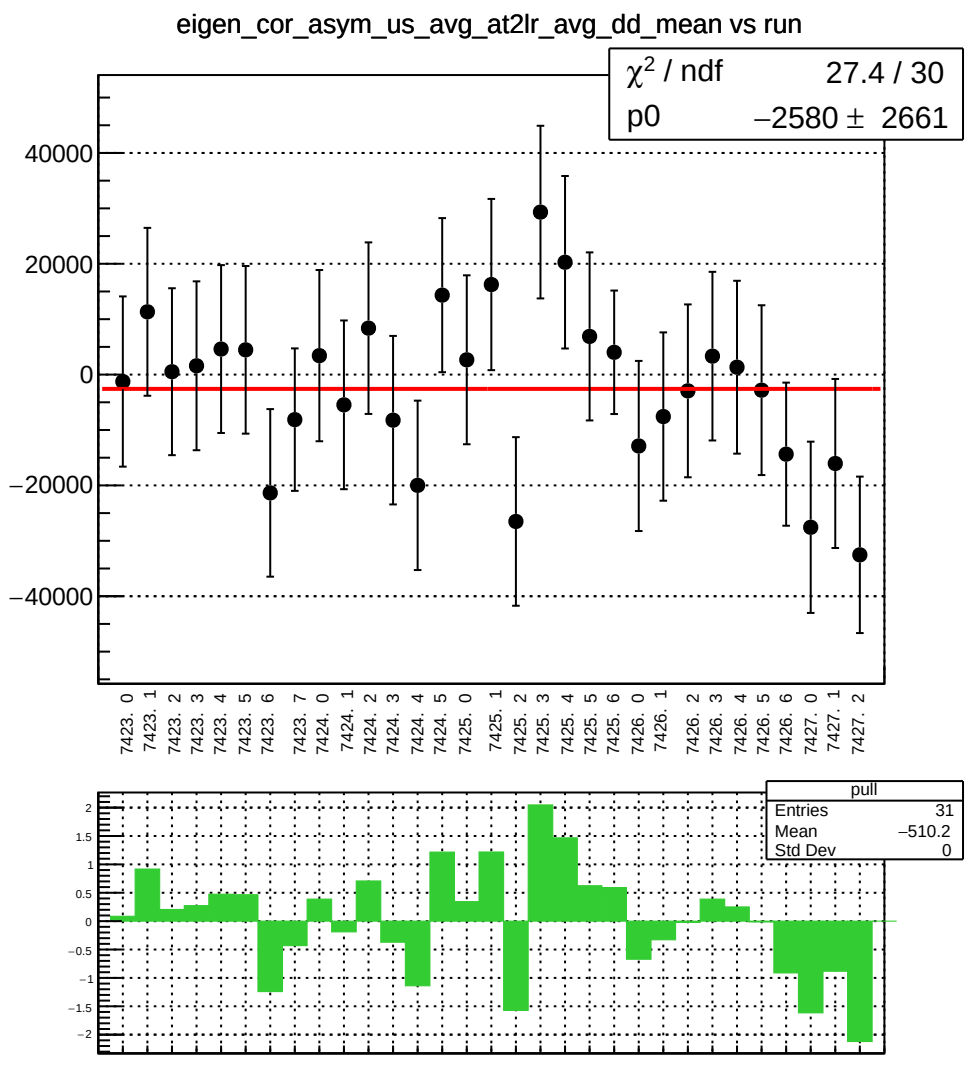

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 27.4 / 30
p0 −2580 ± 2661
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −510.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.00508
Std Dev 0.9402
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

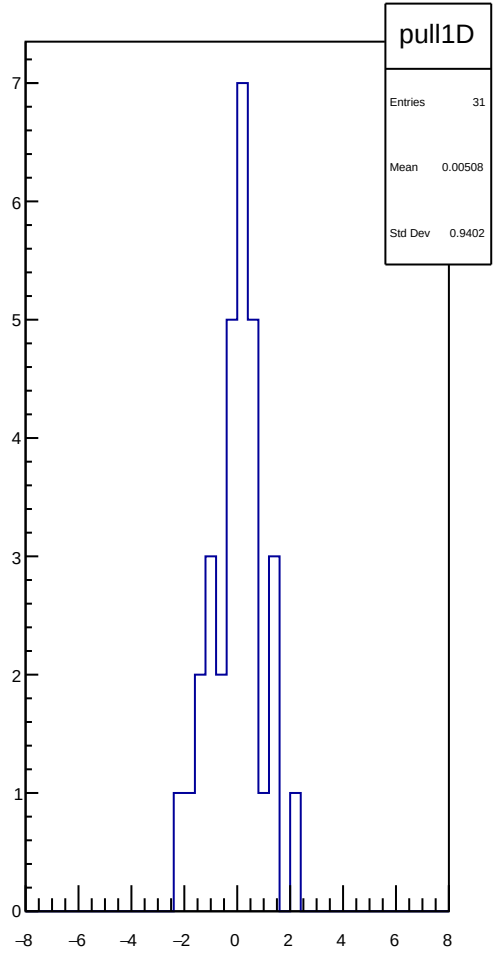

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 51.95 / 30
p0 1452 ± 1.882
1490
1480
1470
1460
1450
1440
1430
1420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

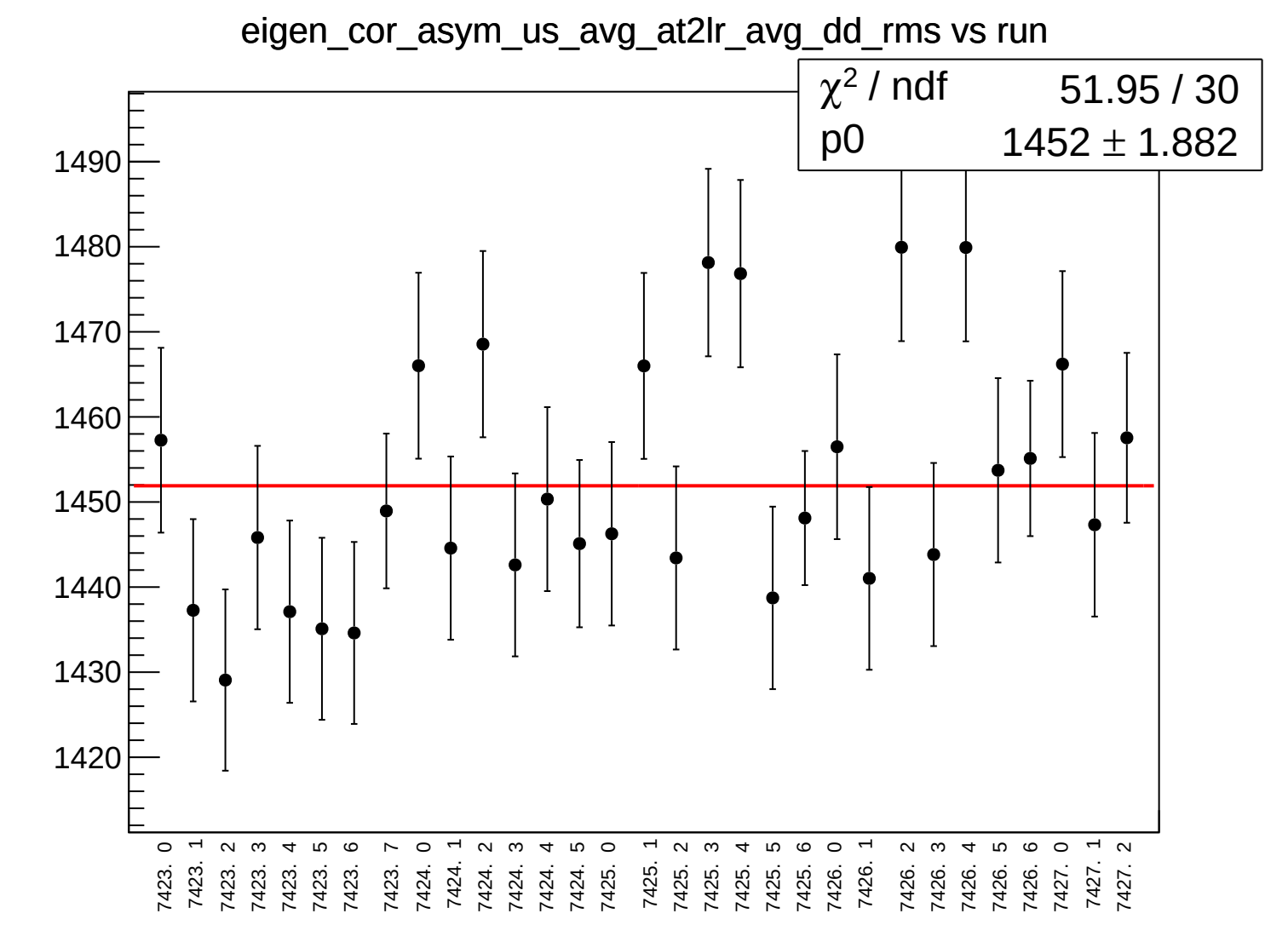

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 21.6 / 30
p0 −6679 ± 1.216e+04
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 398.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

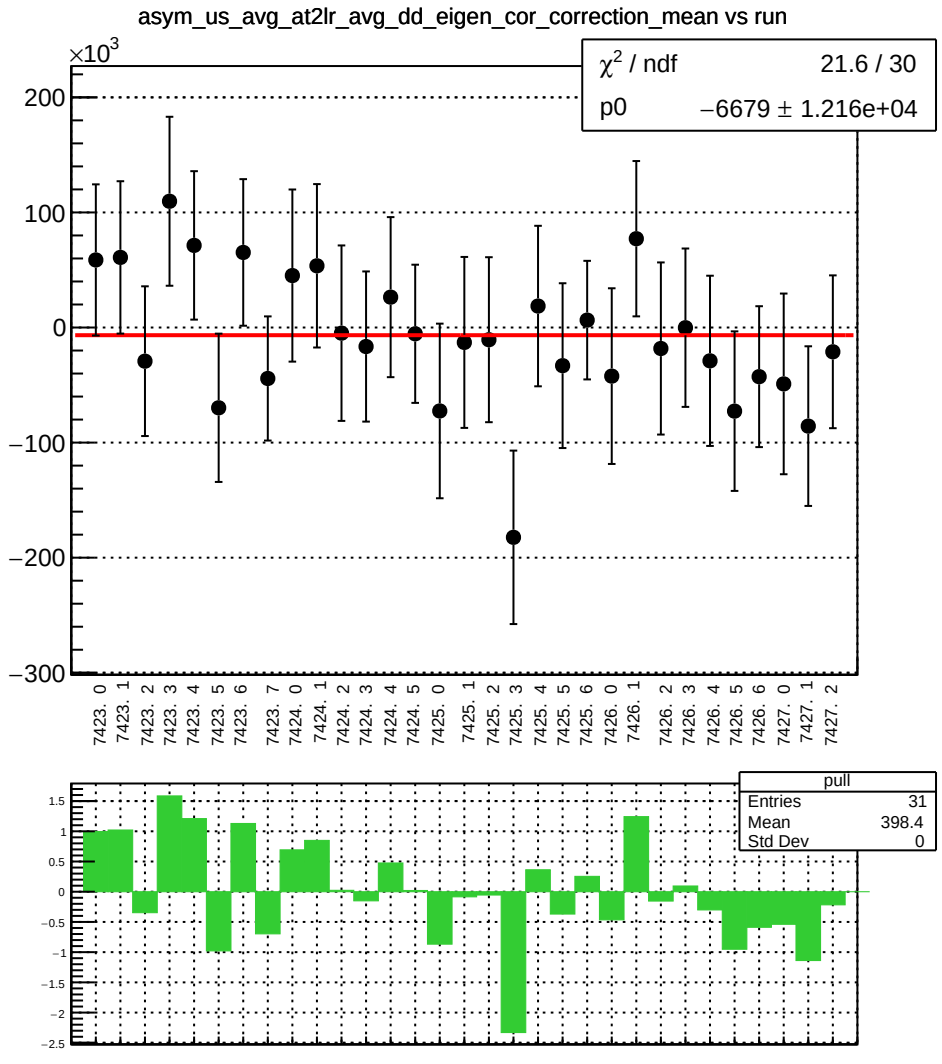

pull1D
Entries 31
Mean −0.009011
Std Dev 0.8347
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

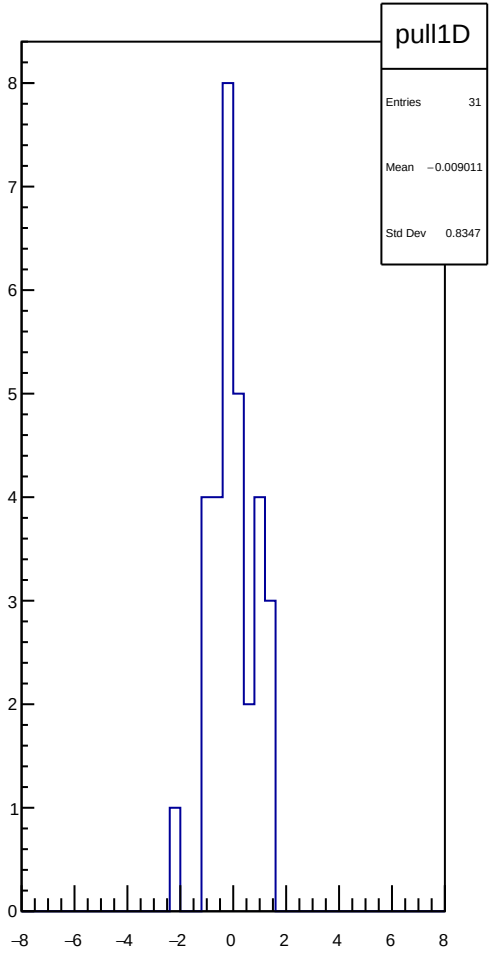

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2149 / 30
p0 6624 ± 8.6
7600
7400
7200
7000
6800
6600
6400
6200
6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

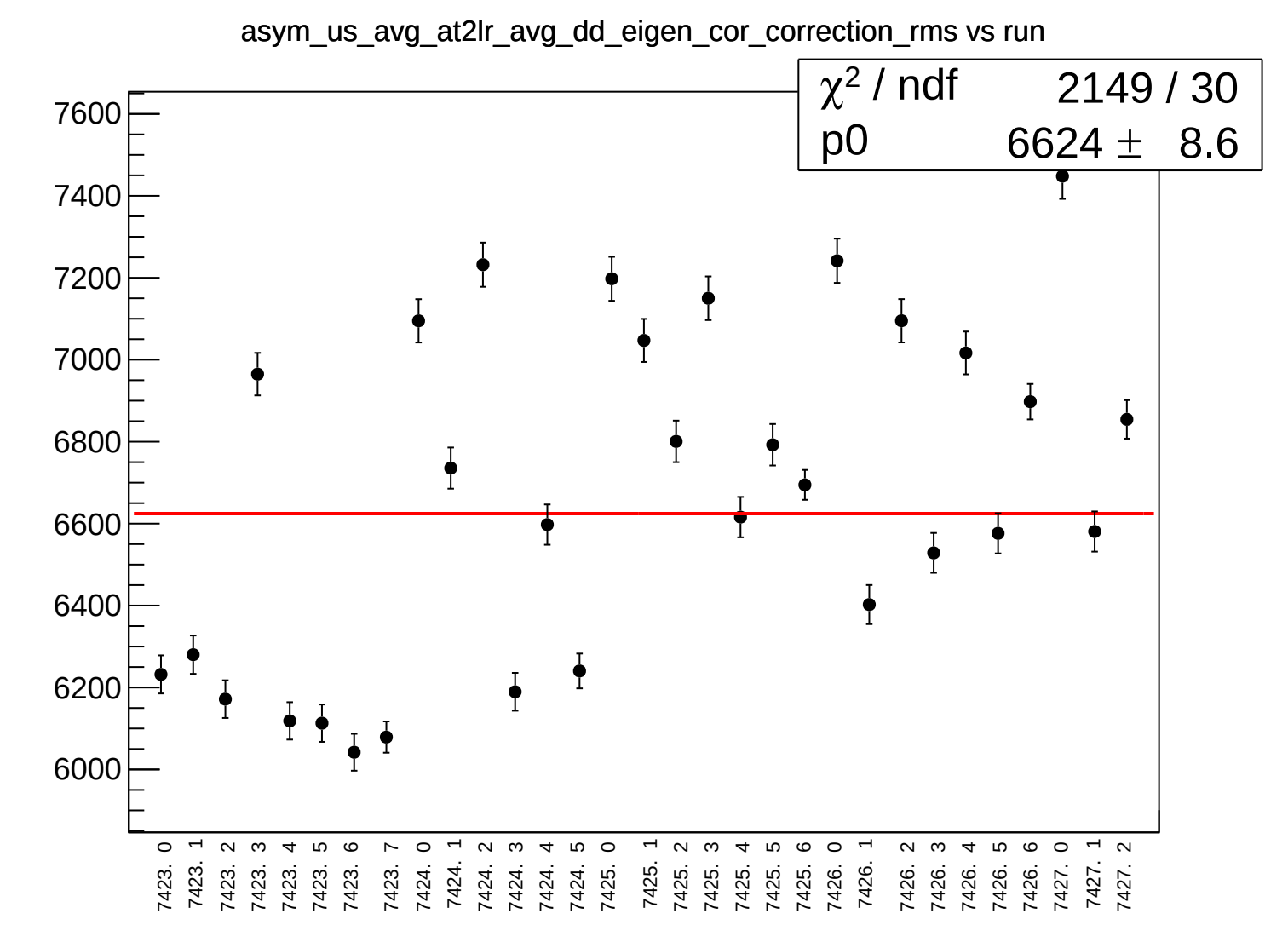

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 27.4 / 30
p0 −2580 ± 2661
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −510.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

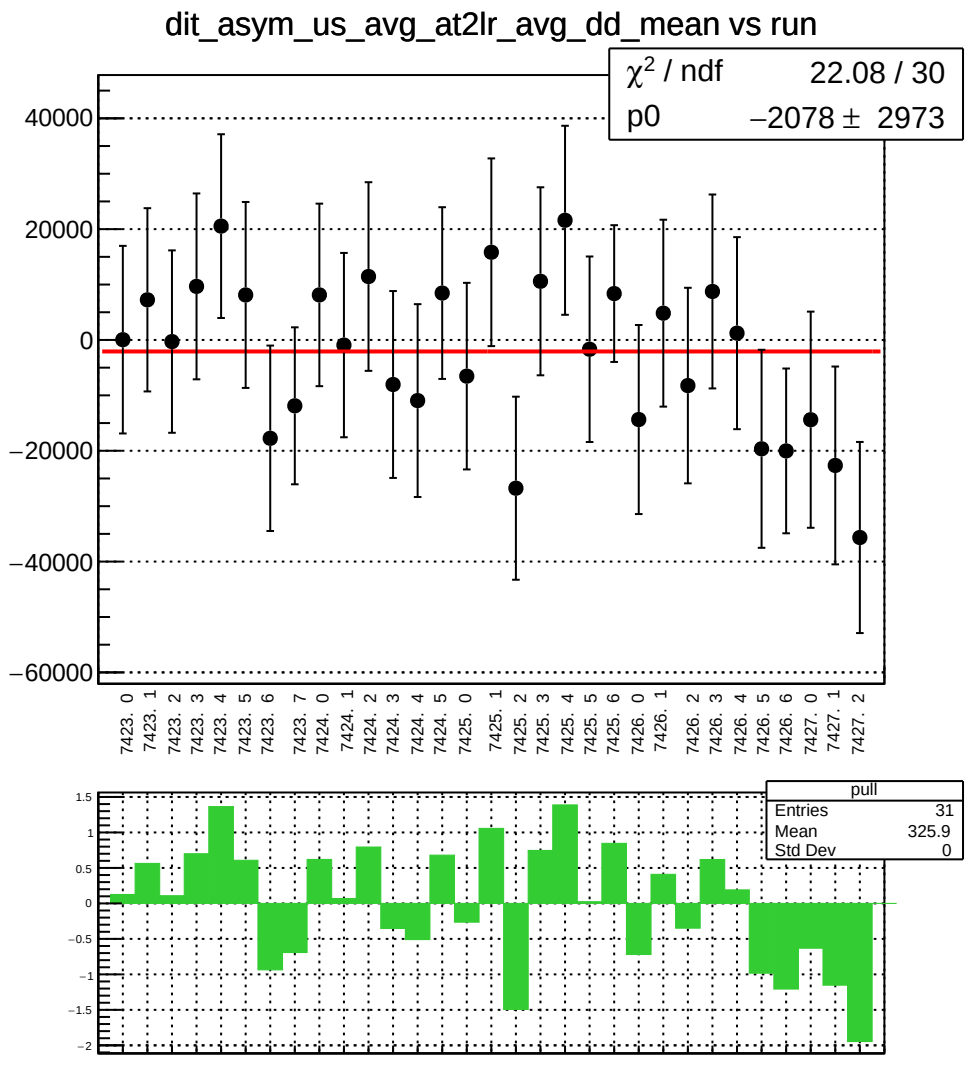

pull1D
Entries 31
Mean 0.00508
Std Dev 0.9402
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

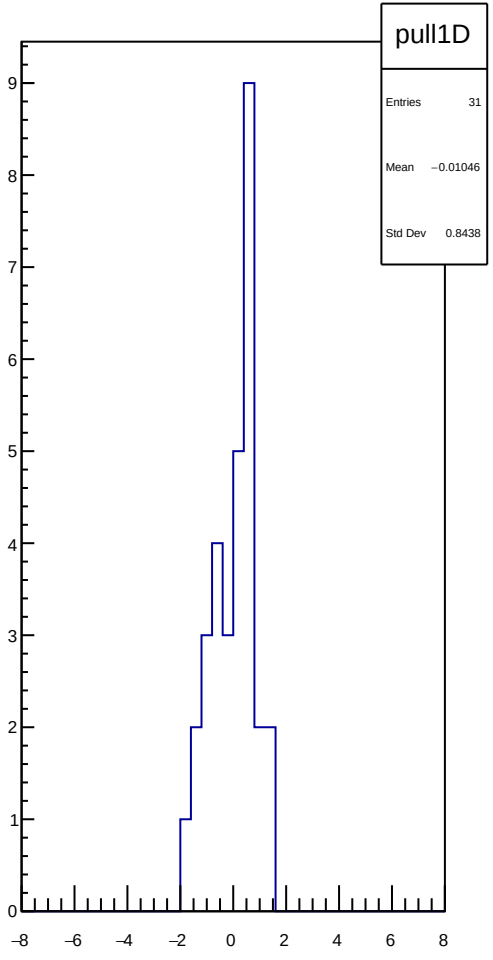

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 51.95 / 30
p0 1452 ± 1.882
1490
1480
1470
1460
1450
1440
1430
1420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

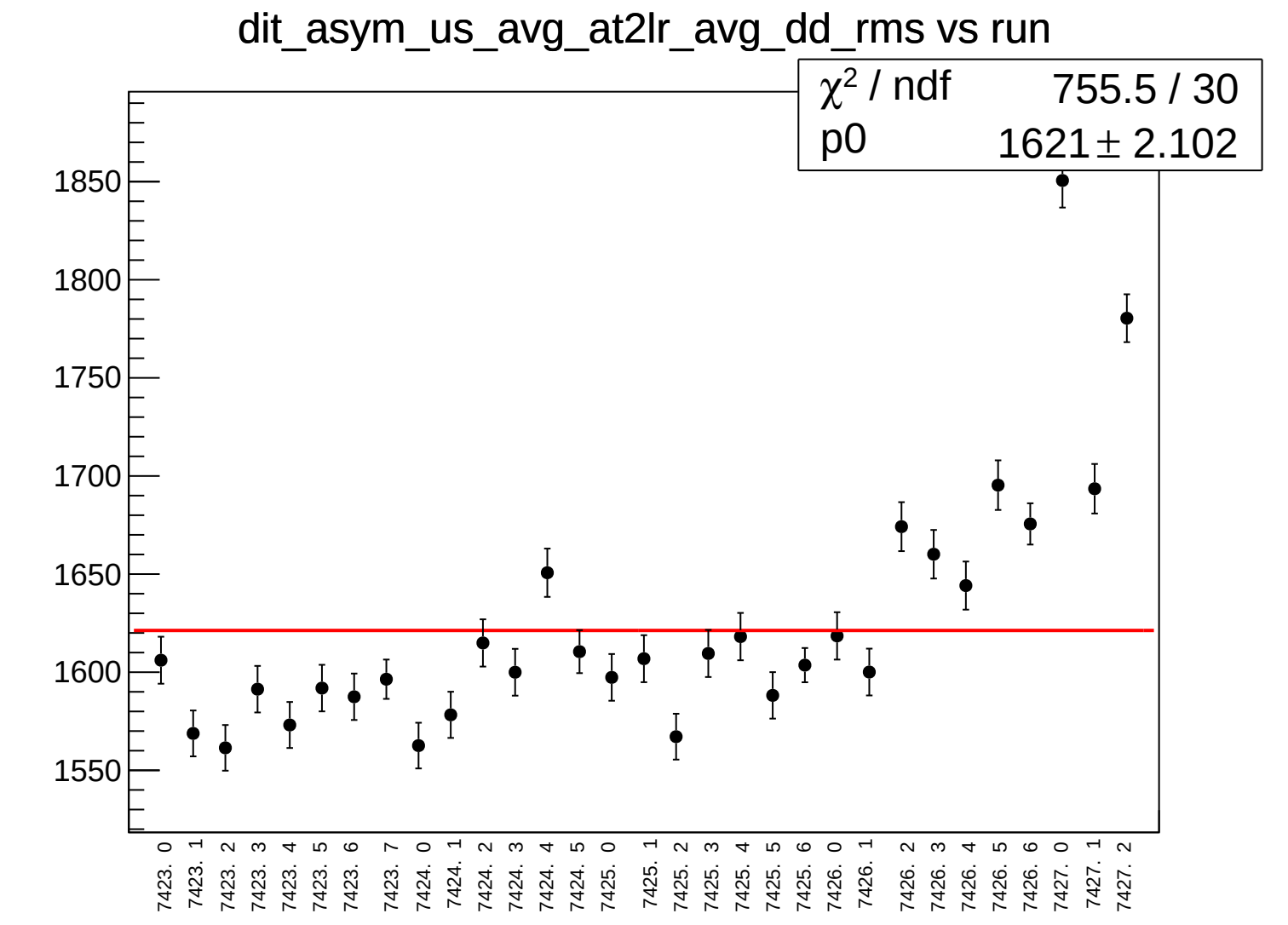

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.6 / 30
p0 −6679 ± 1.216e+04
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 398.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

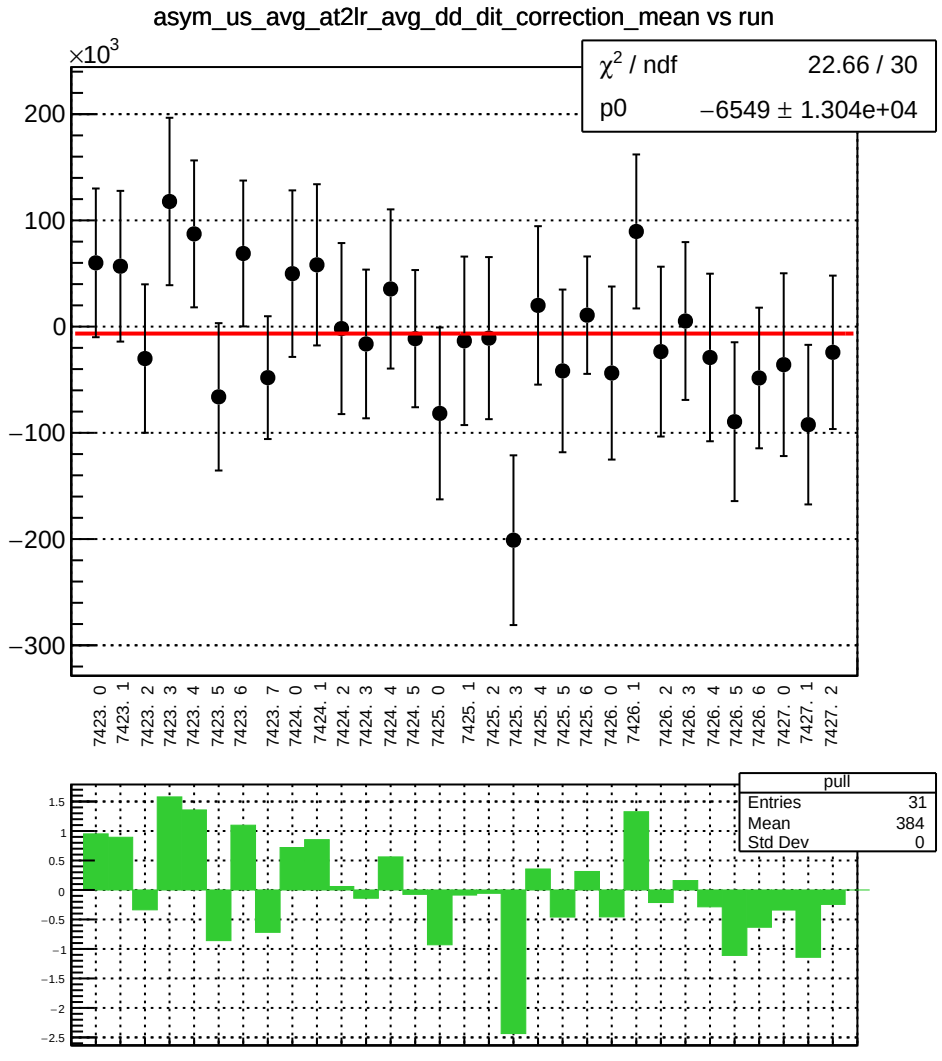

pull1D
Entries 31
Mean −0.009011
Std Dev 0.8347
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

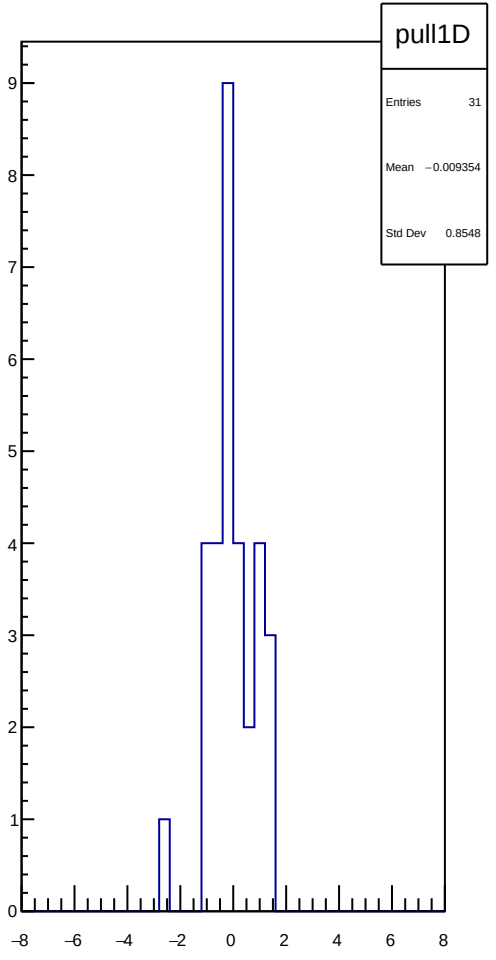

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2149 / 30
p0 6624 ± 8.6
7600
7400
7200
7000
6800
6600
6400
6200
6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

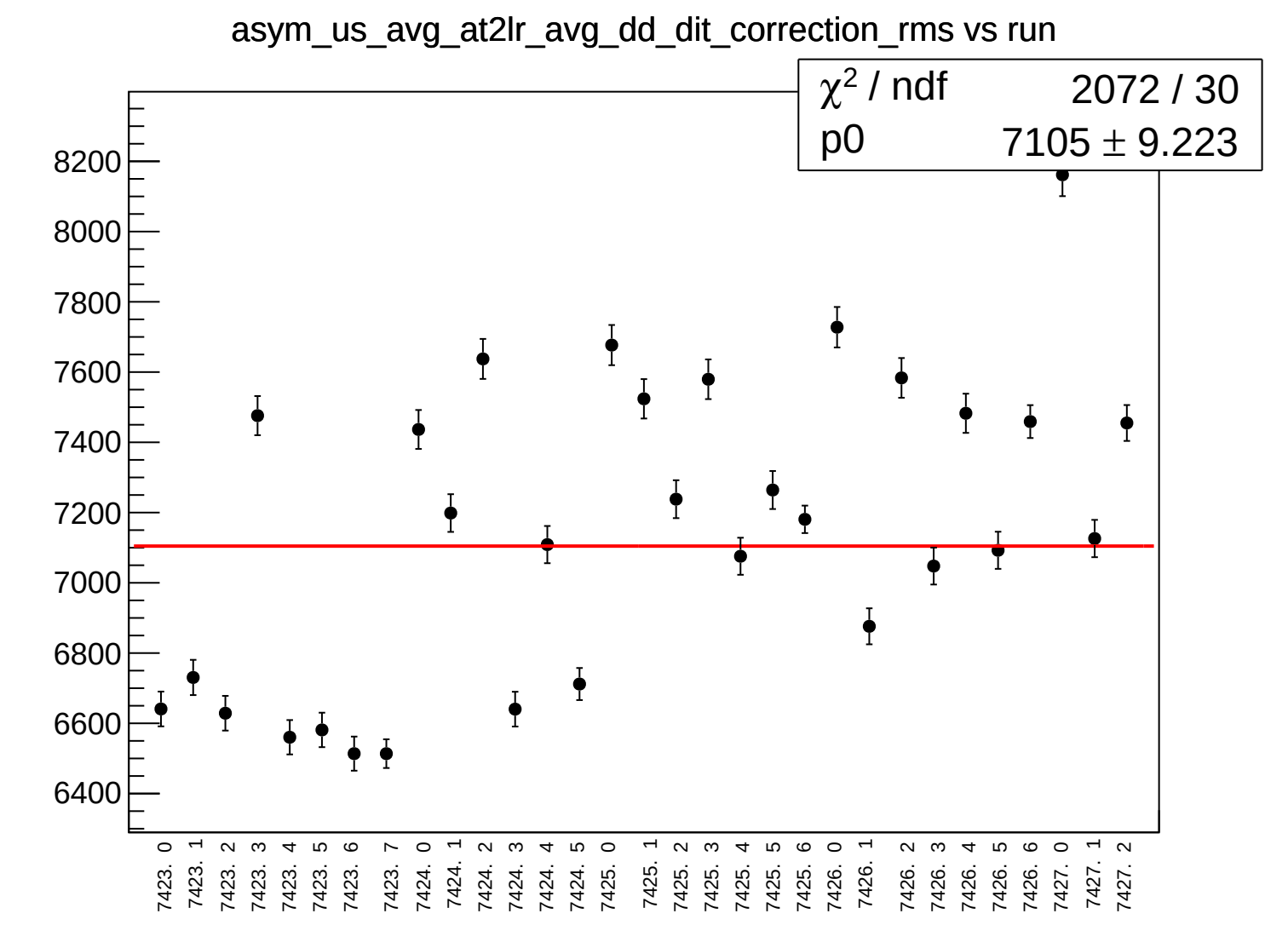

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 22.08 / 30
p0 −2078 ± 2973
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 325.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

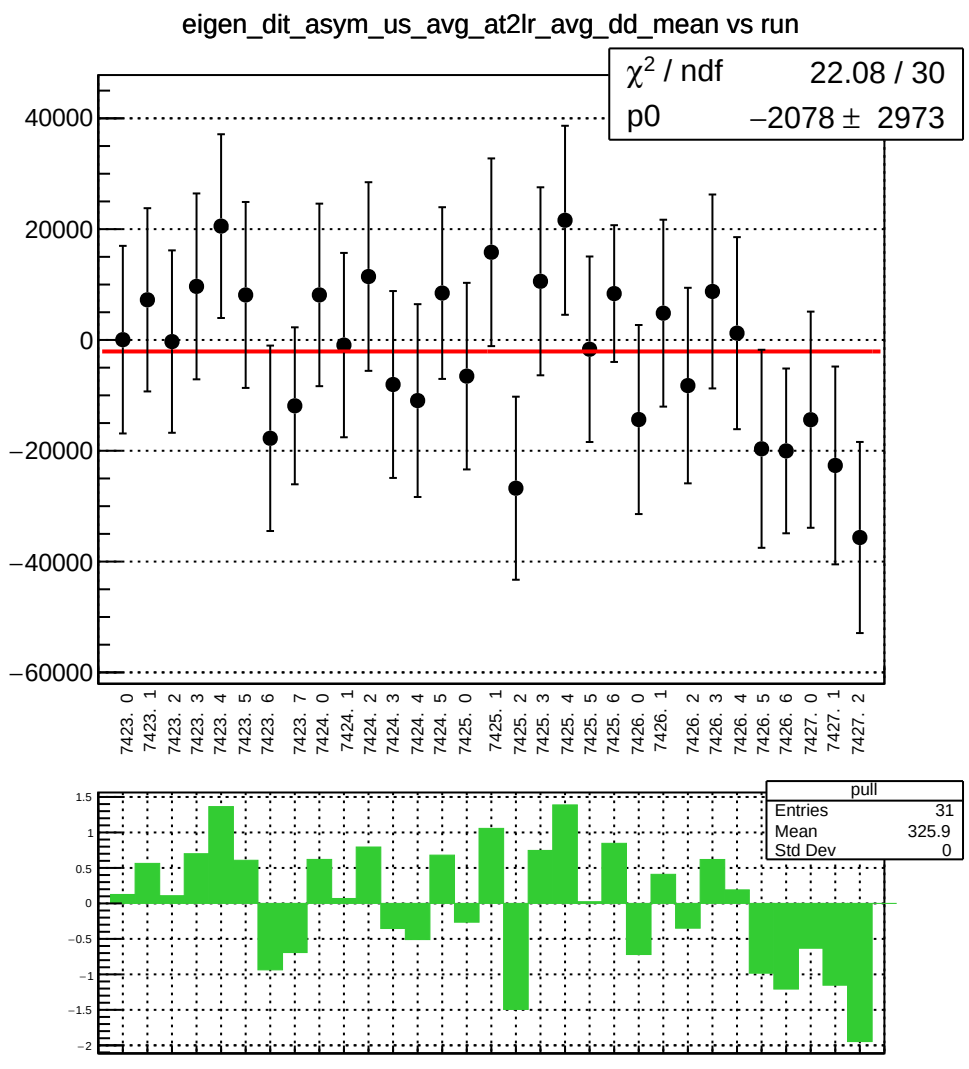

pull1D
Entries 31
Mean −0.01046
Std Dev 0.8438
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

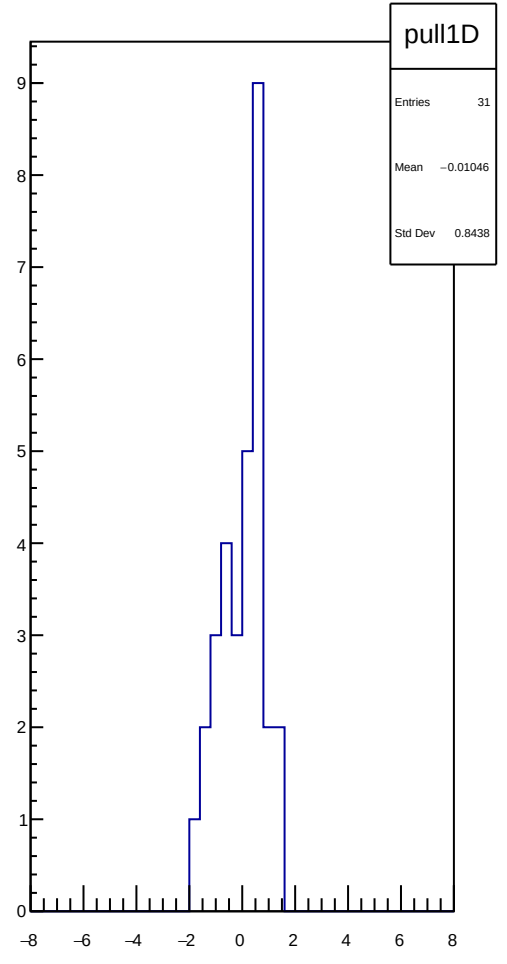

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 755.5 / 30
p0 1621 ± 2.102
1850
1800
1750
1700
1650
1600
1550
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

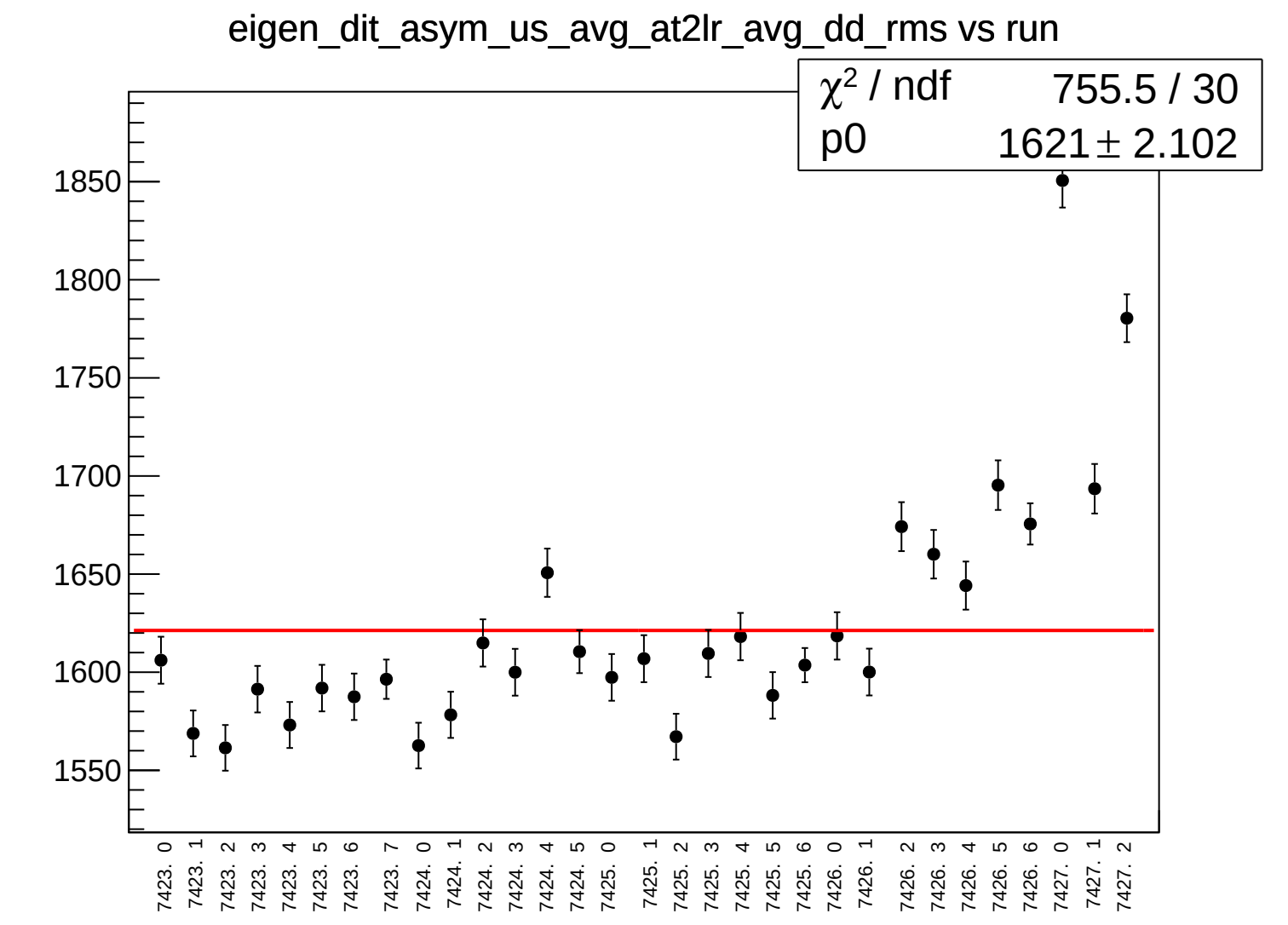

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 22.66 / 30
p0 −6549 ± 1.304e+04
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 384
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

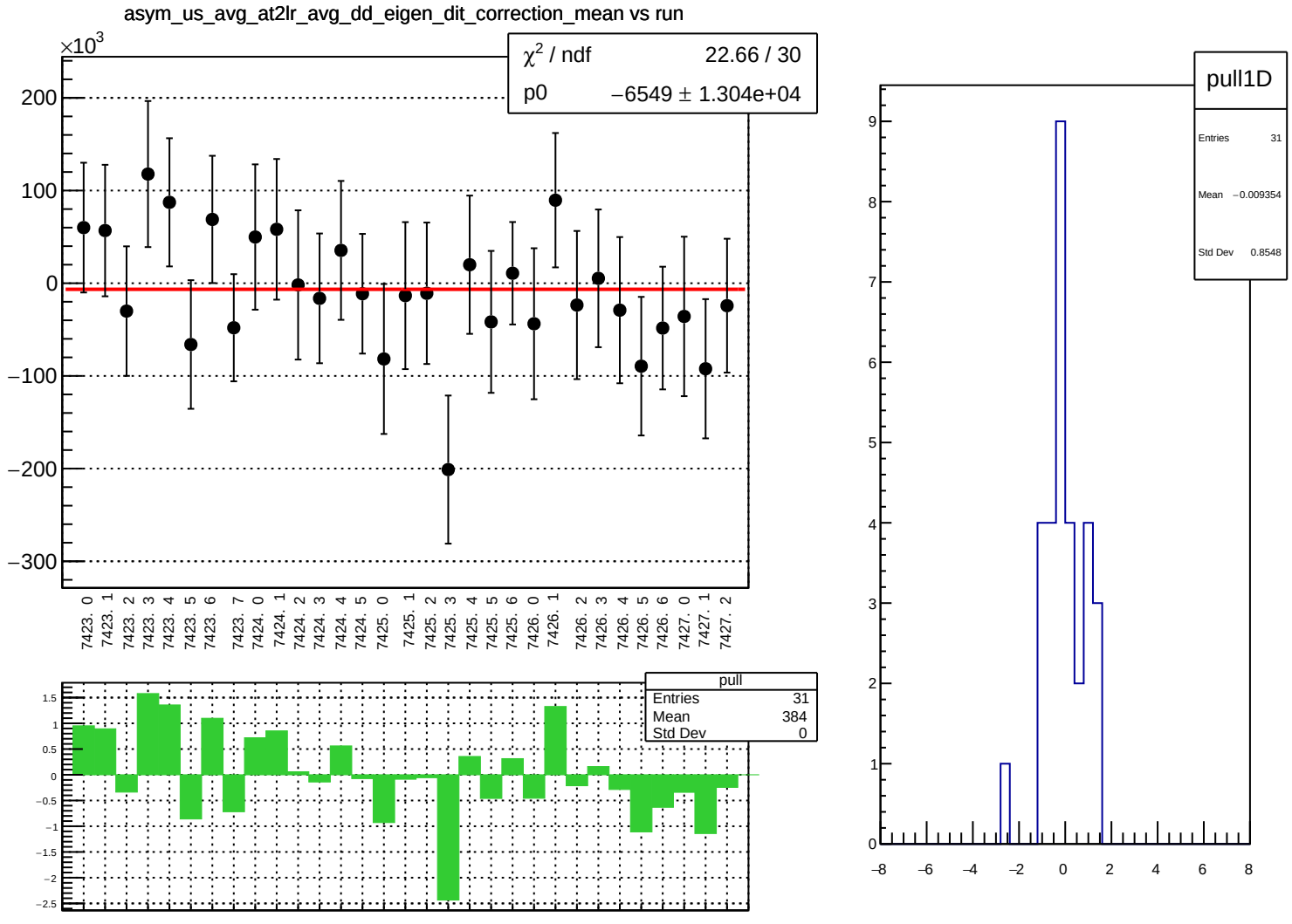

pull1D
Entries 31
Mean −0.009354
Std Dev 0.8548
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

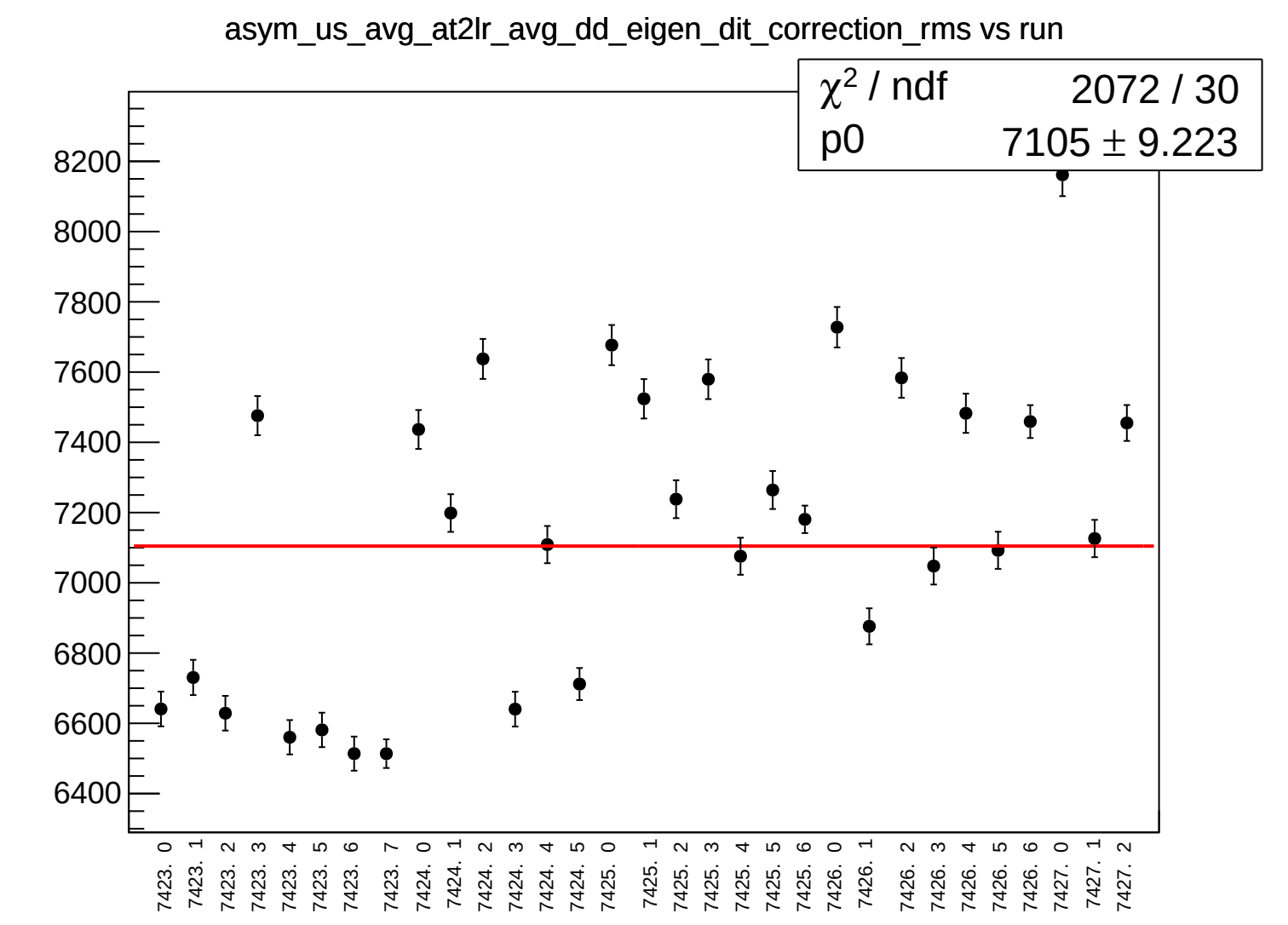

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2072 / 30
p0 7105 ± 9.223
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

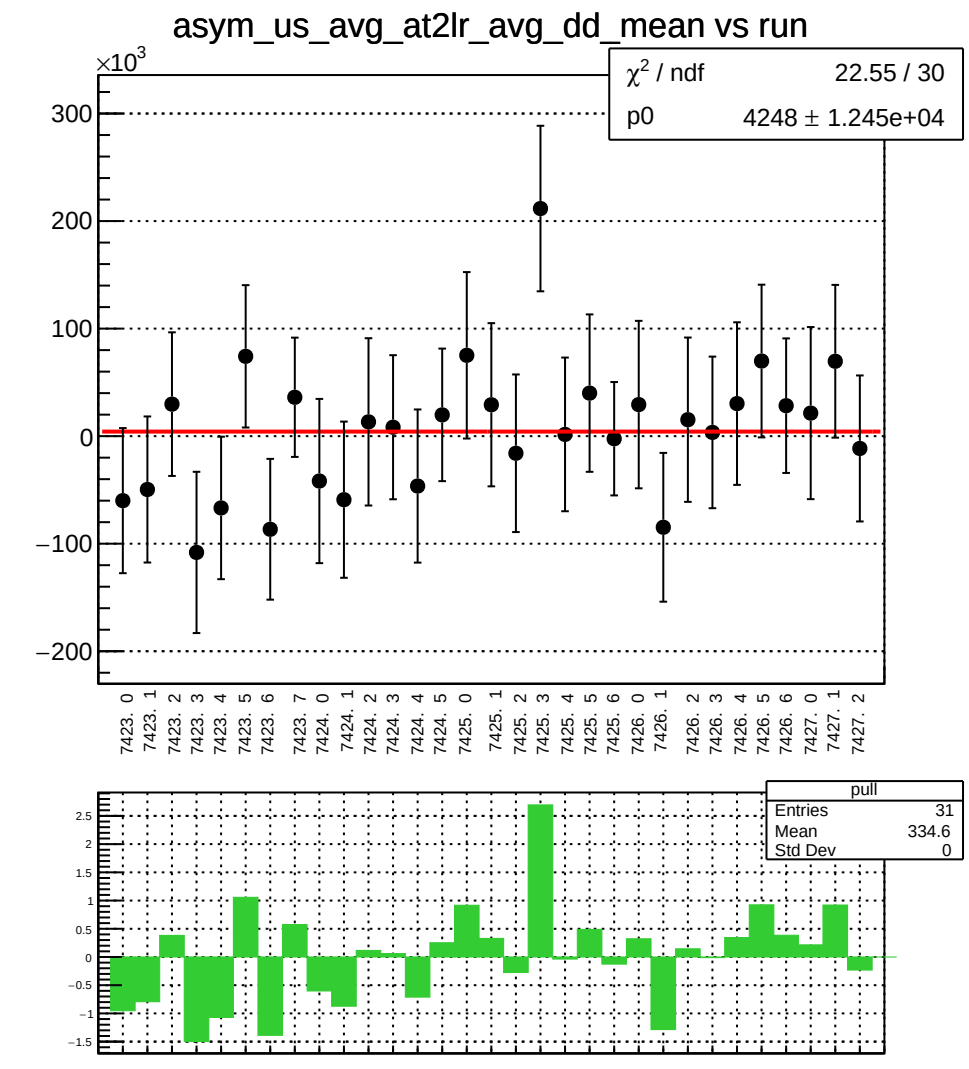

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 22.08 / 30
p0 −2078 ± 2973
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 325.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

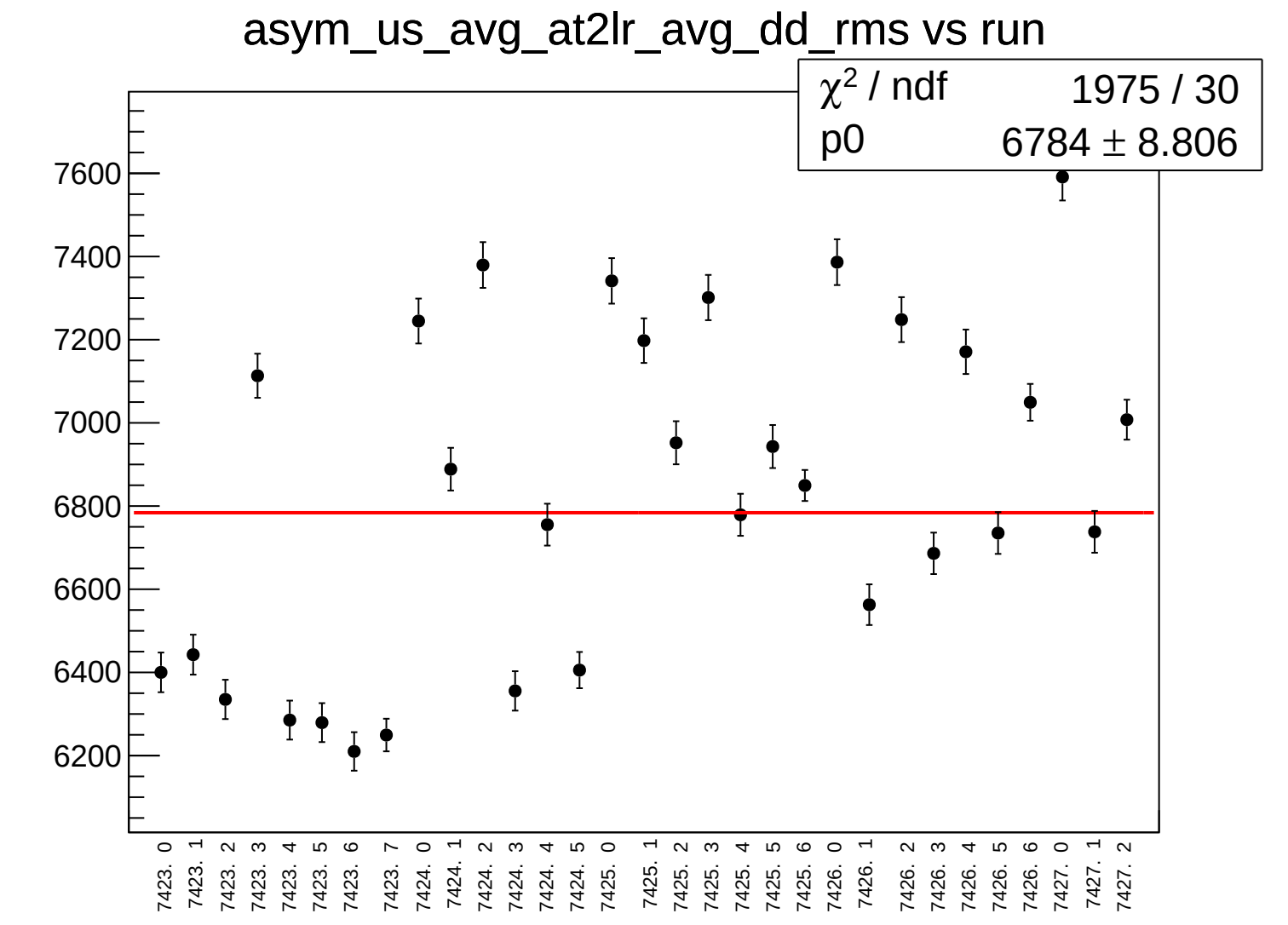

pull1D
Entries 31
Mean −0.01046
Std Dev 0.8438
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

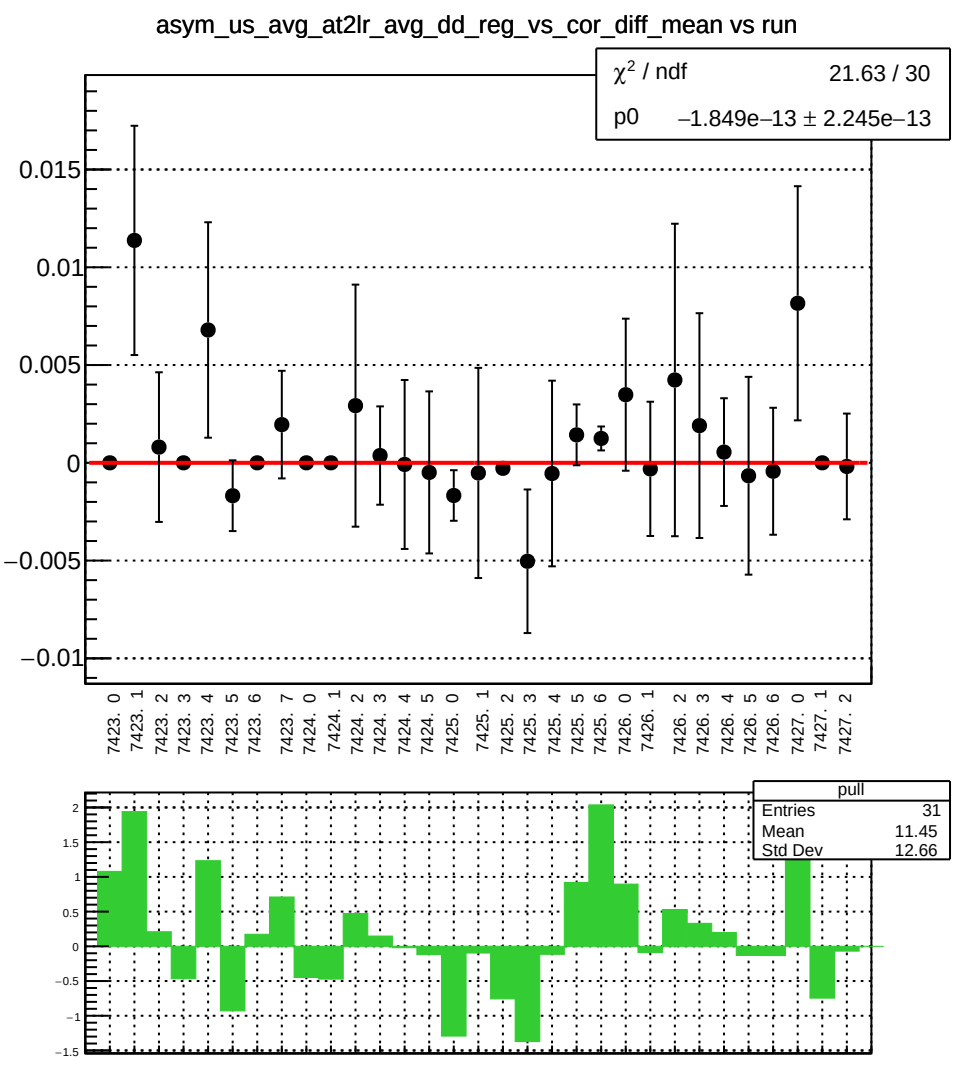

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 755.5 / 30
p0 1621 ± 2.102
1850
1800
1750
1700
1650
1600
1550
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

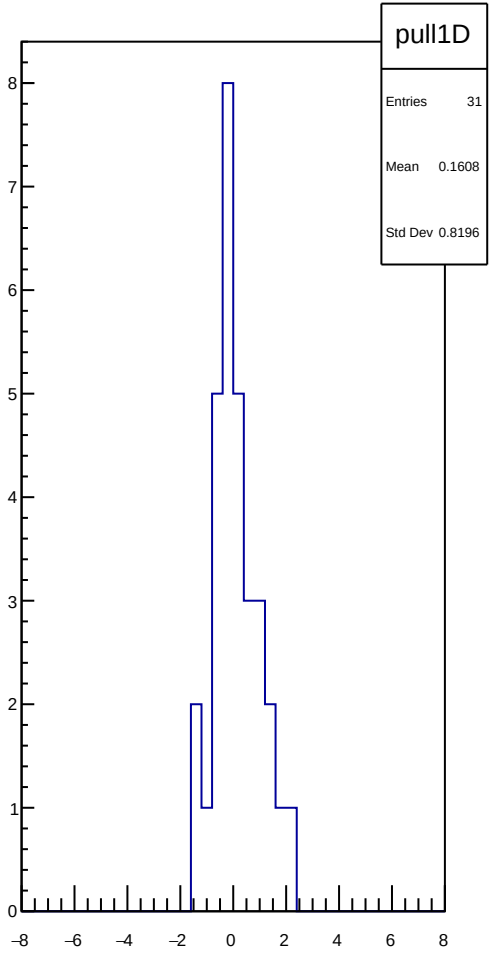

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.66 / 30
p0 −6549 ± 1.304e+04
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 384
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.009354
Std Dev 0.8548
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

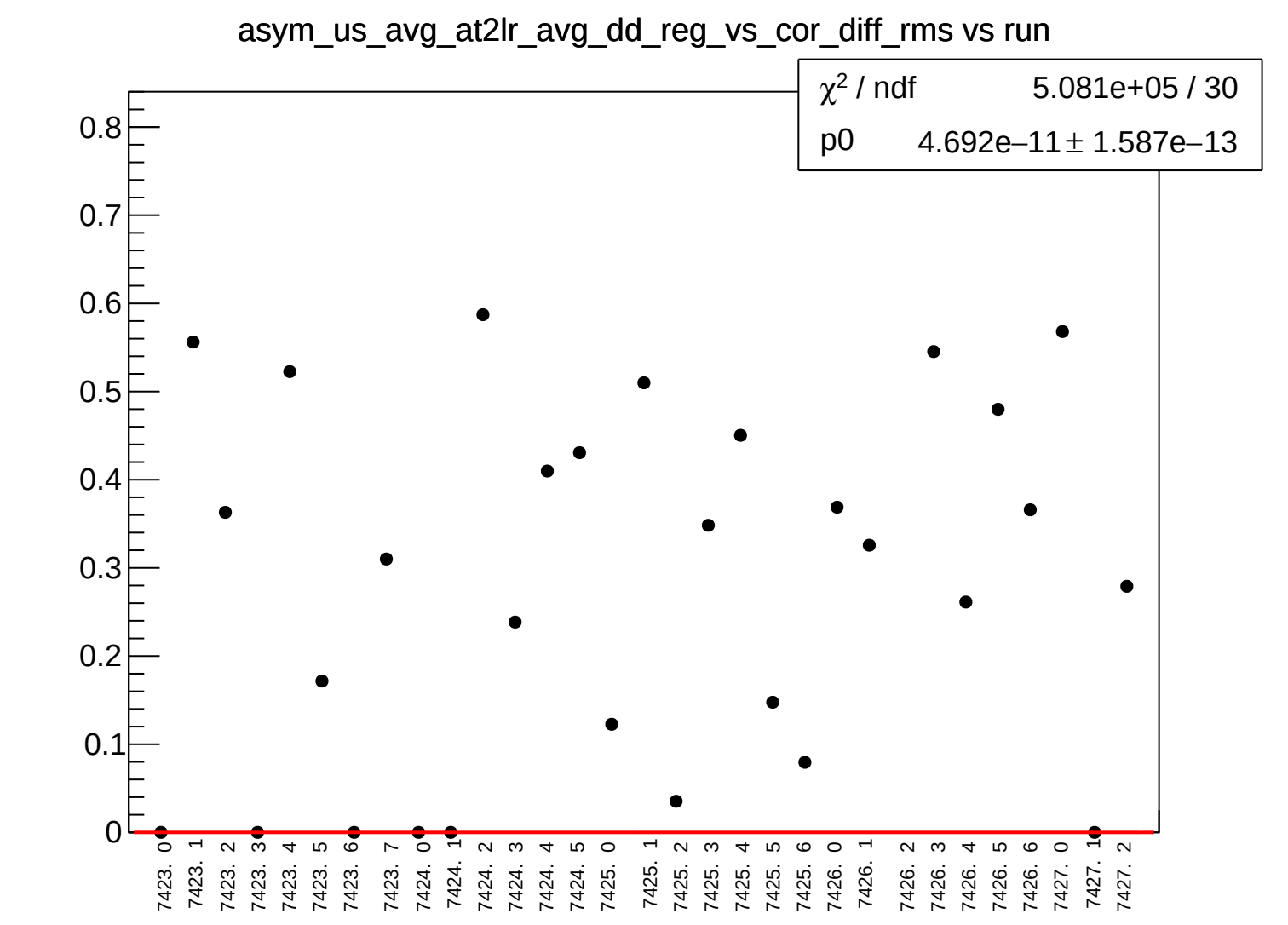

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2072 / 30
p0 7105 ± 9.223
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

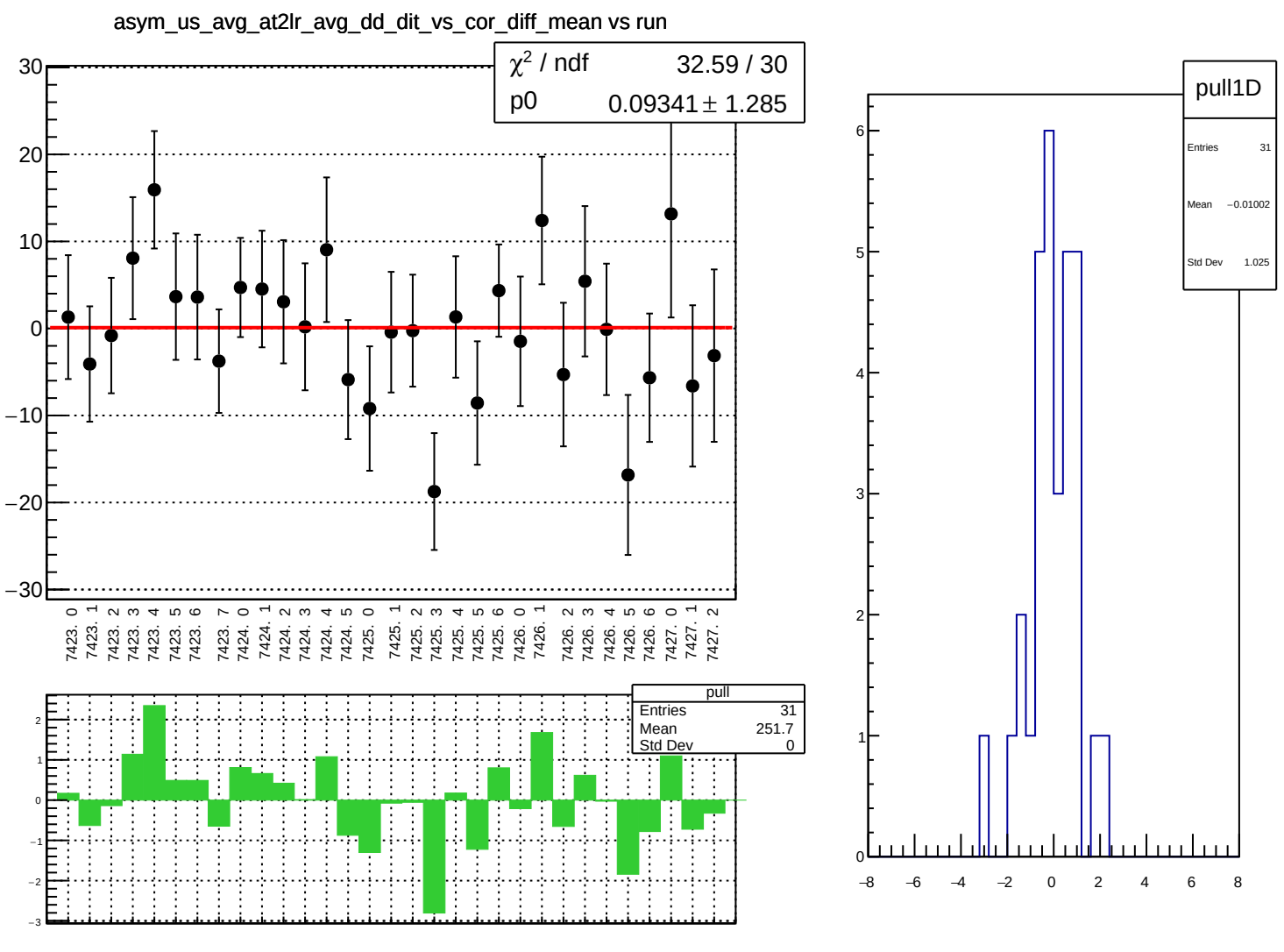

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 22.55 / 30
p0 4248 ± 1.245e+04
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 334.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.008854
Std Dev 0.8528
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

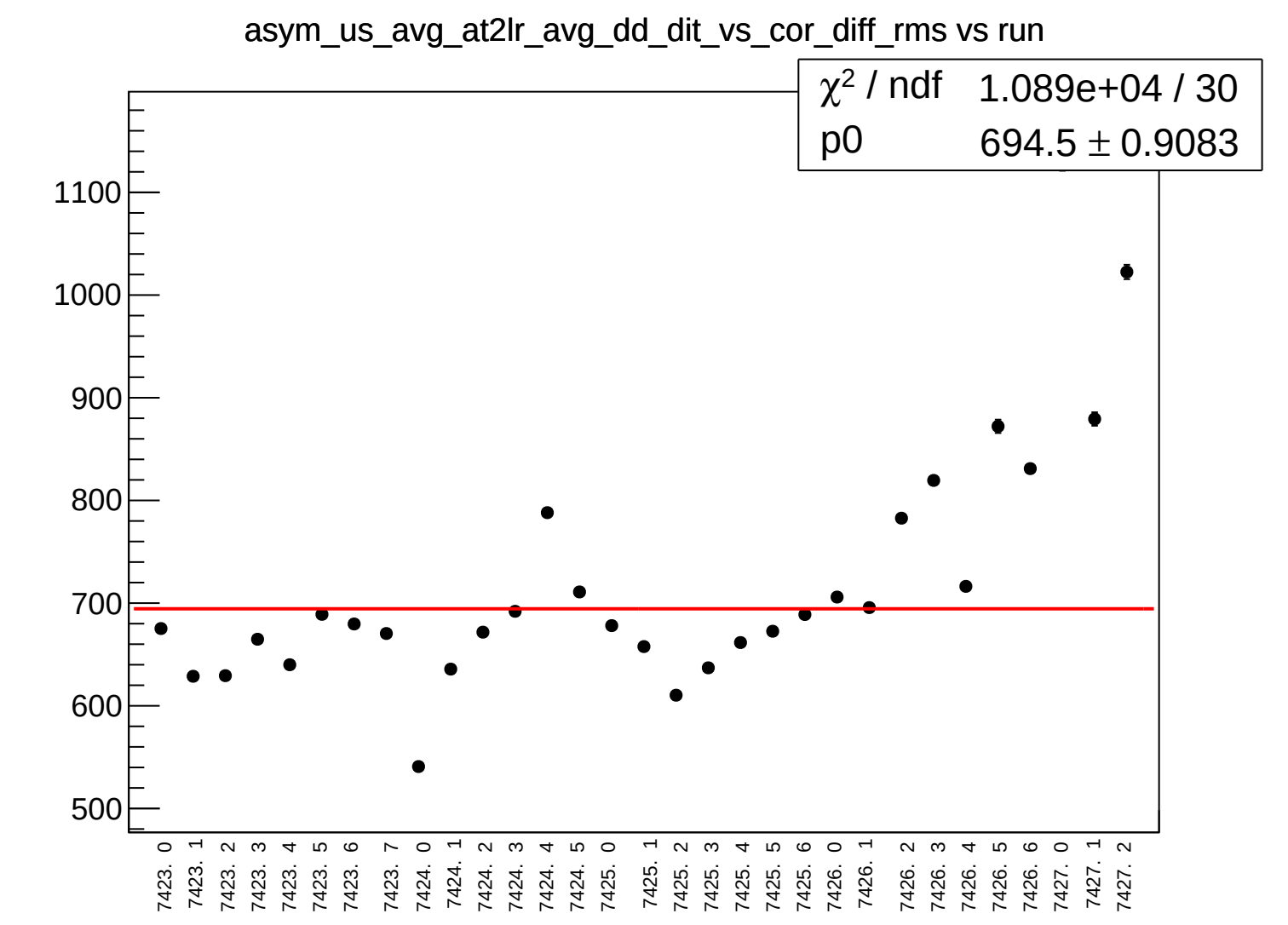

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1975 / 30
p0 6784 ± 8.806
7600
7400
7200
7000
6800
6600
6400
6200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

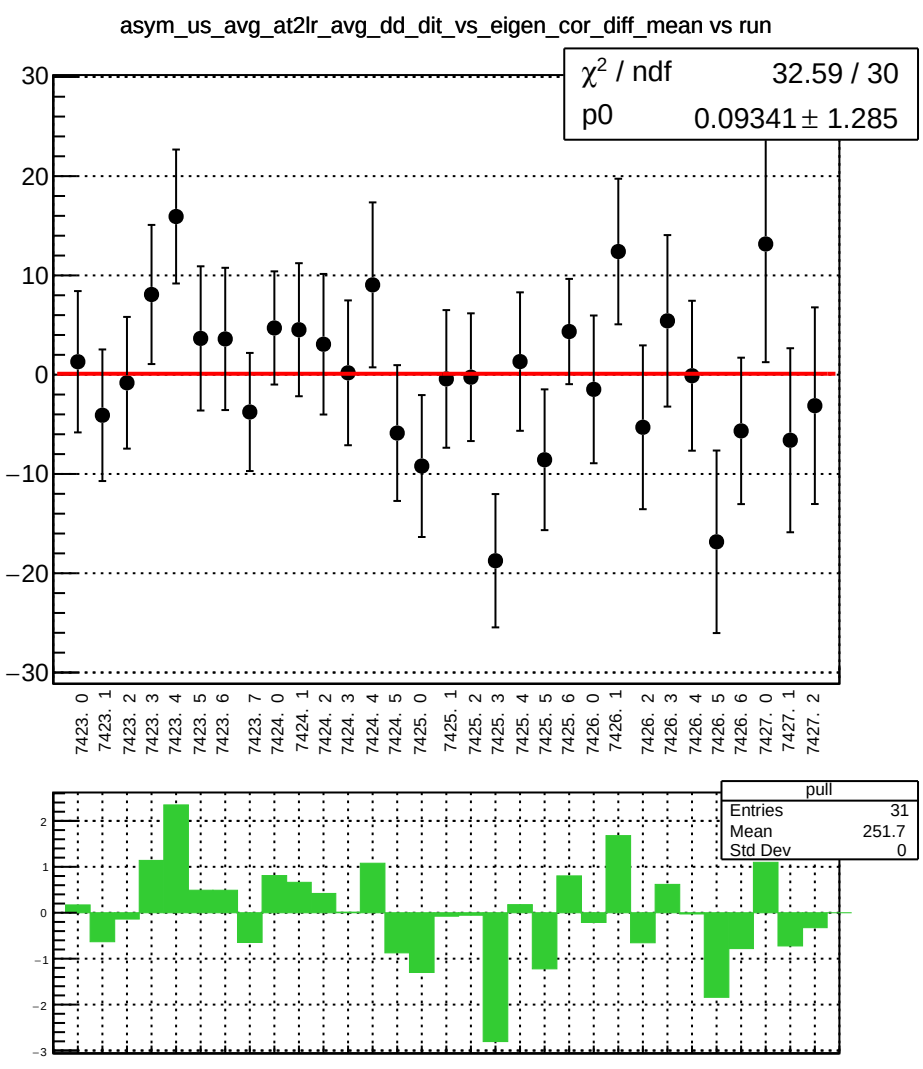

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.63 / 30
p0 −1.849e−13 ± 2.245e−13
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.45
Std Dev 12.66
2
1.5
1
0.5
0
−0.5
−1
−1.5

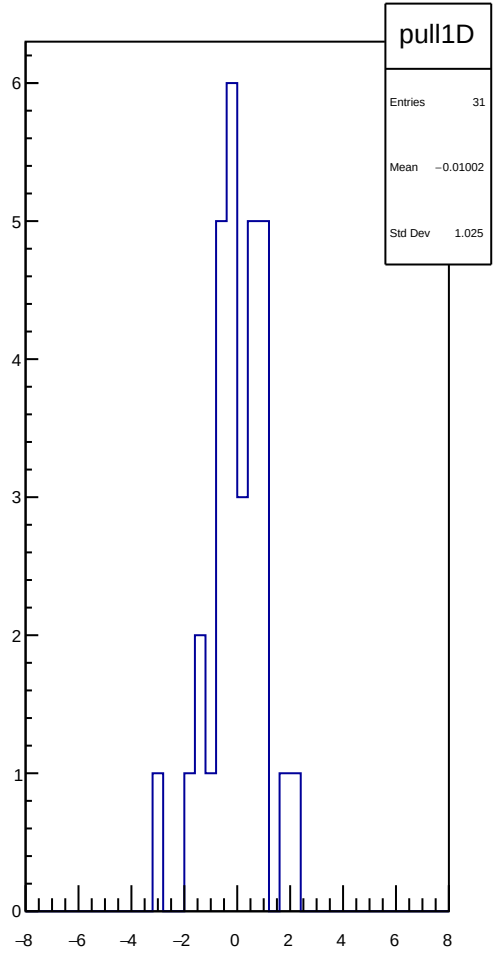

pull1D
Entries 31
Mean 0.1608
Std Dev 0.8196
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

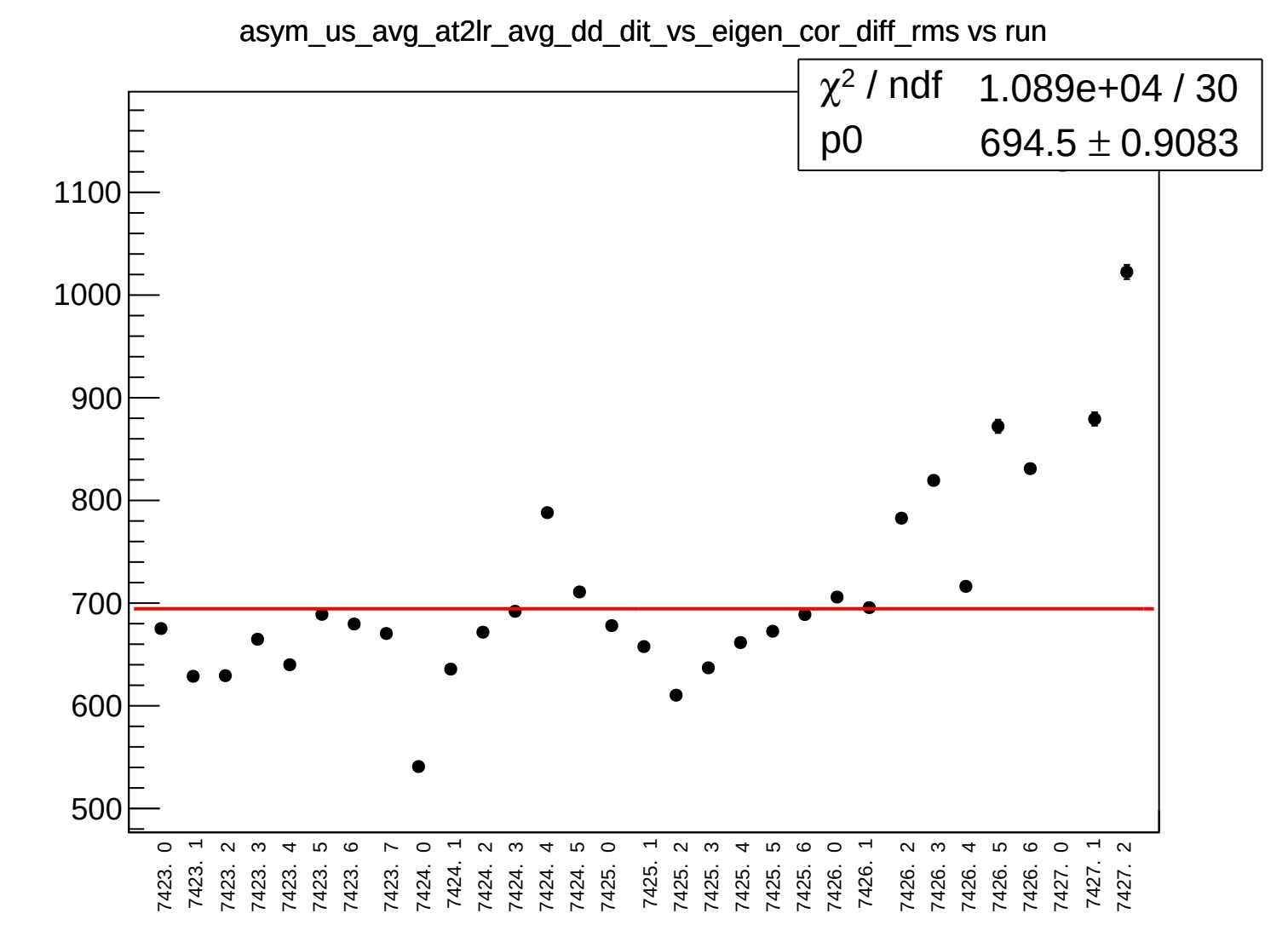

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.081e+05 / 30
p0 4.692e−11 ± 1.587e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

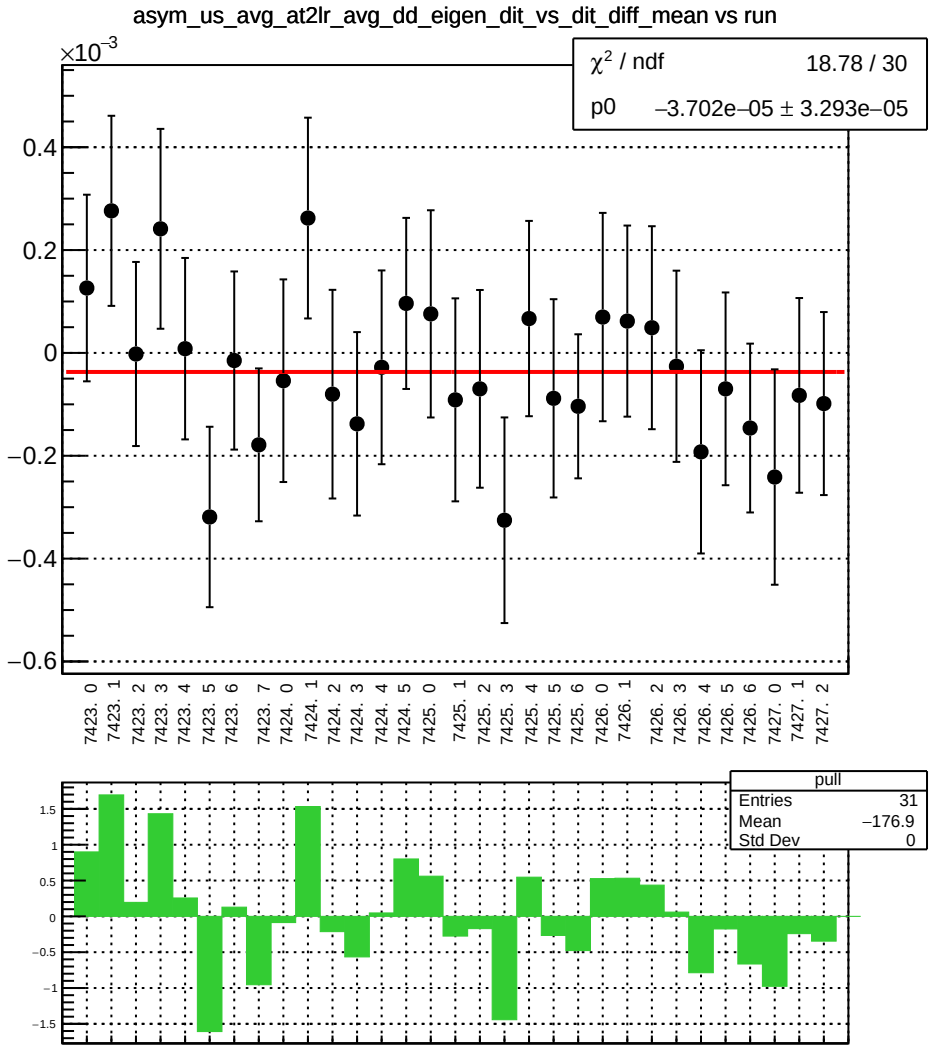

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.59 / 30
p0 0.09341 ± 1.285
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 251.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.01002
Std Dev 1.025
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

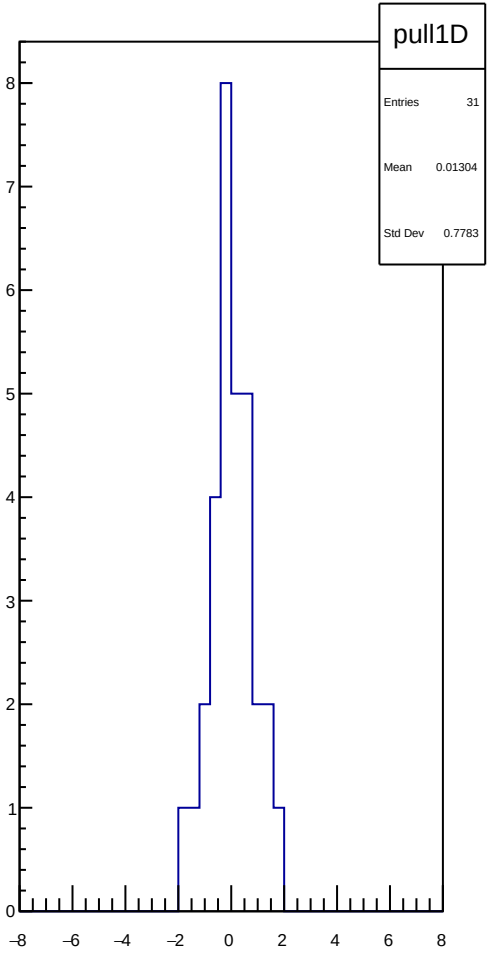

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.089e+04 / 30
p0 694.5 ± 0.9083
1100
1000
900
800
700
600
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

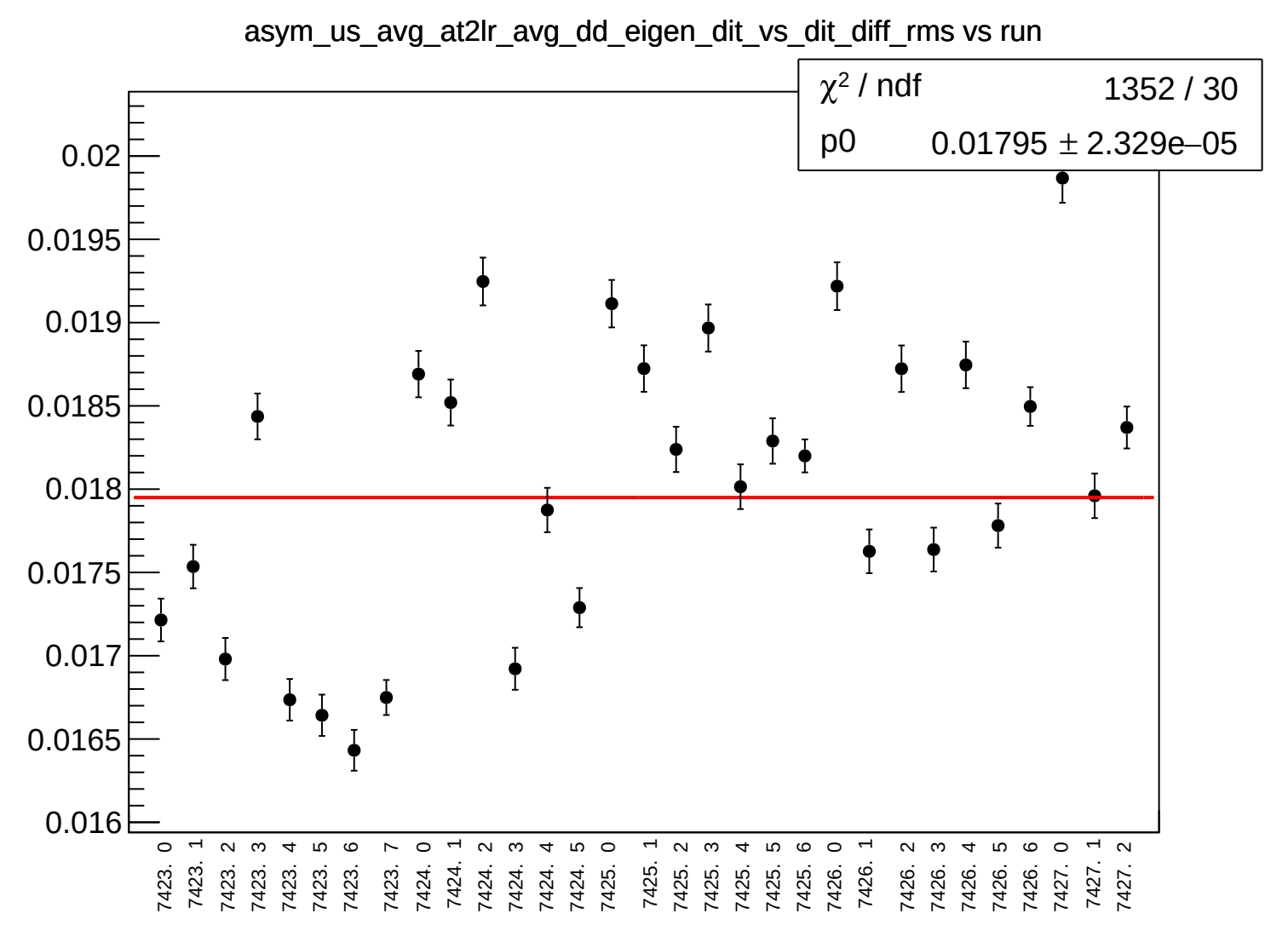

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.59 / 30
p0 0.09341 ± 1.285
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 251.7
Std Dev 0
2
1
0
−1
−2
−3

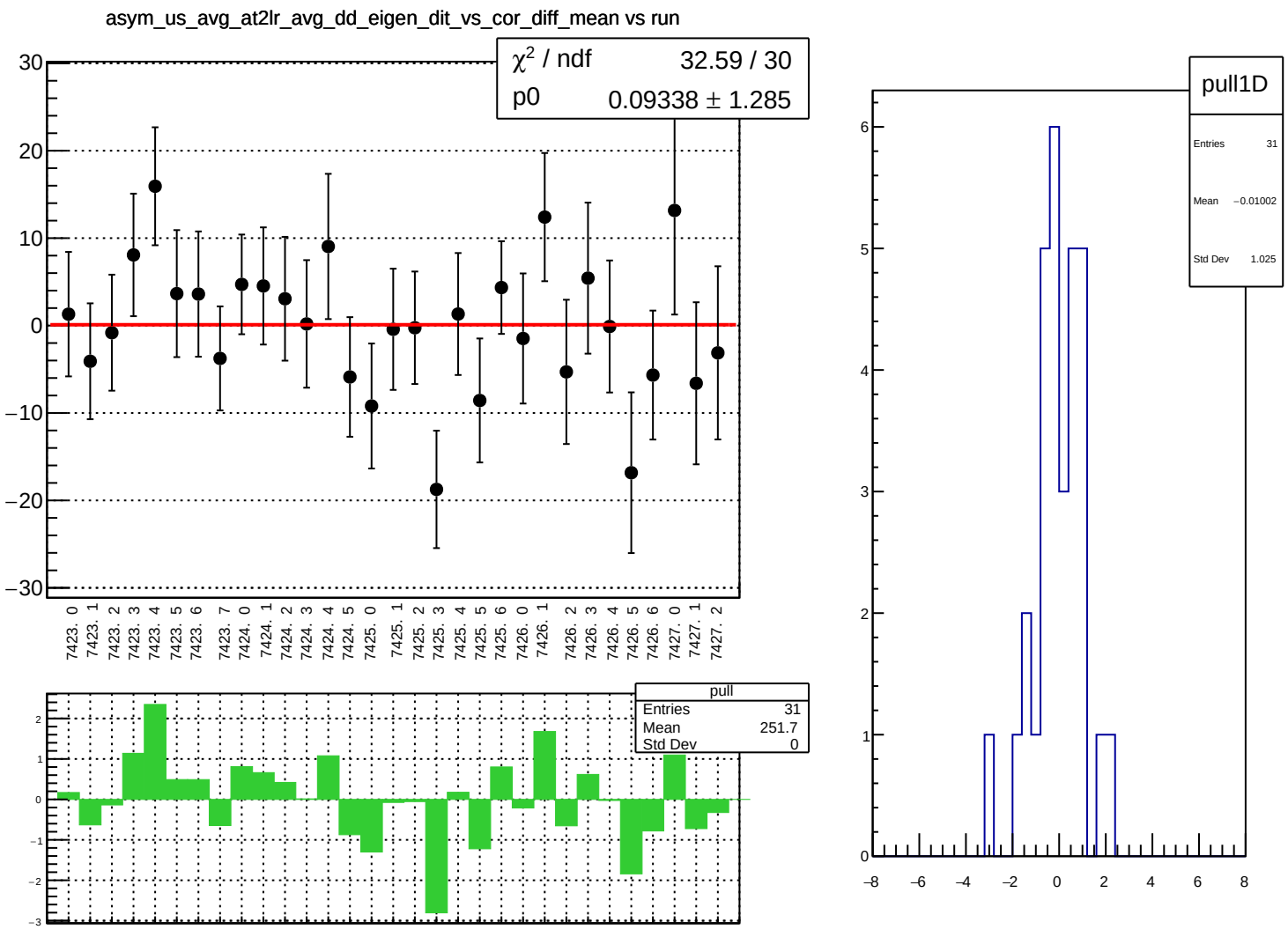

pull1D
Entries 31
Mean −0.01002
Std Dev 1.025
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

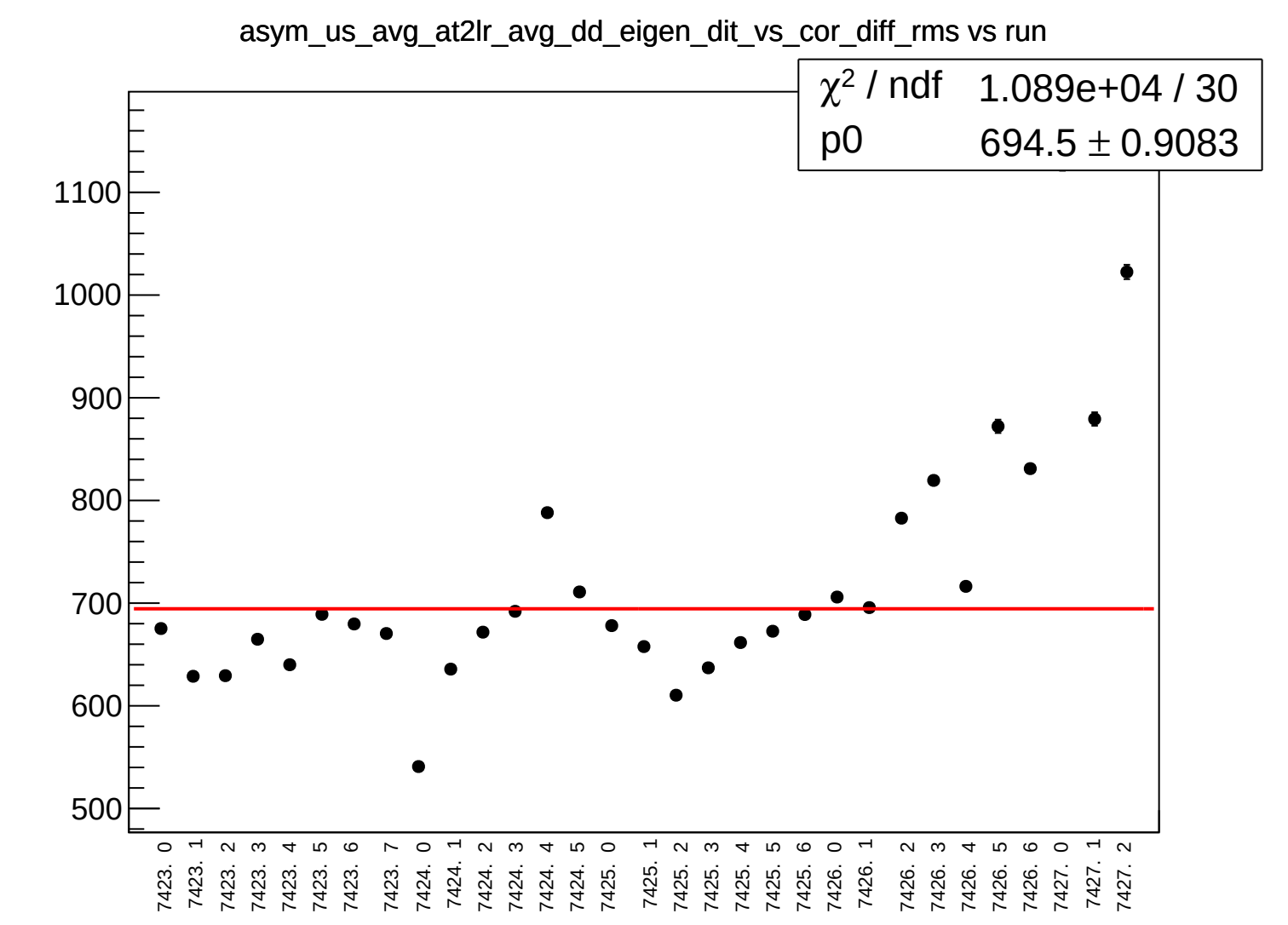

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.089e+04 / 30
p0 694.5 ± 0.9083
1100
1000
900
800
700
600
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

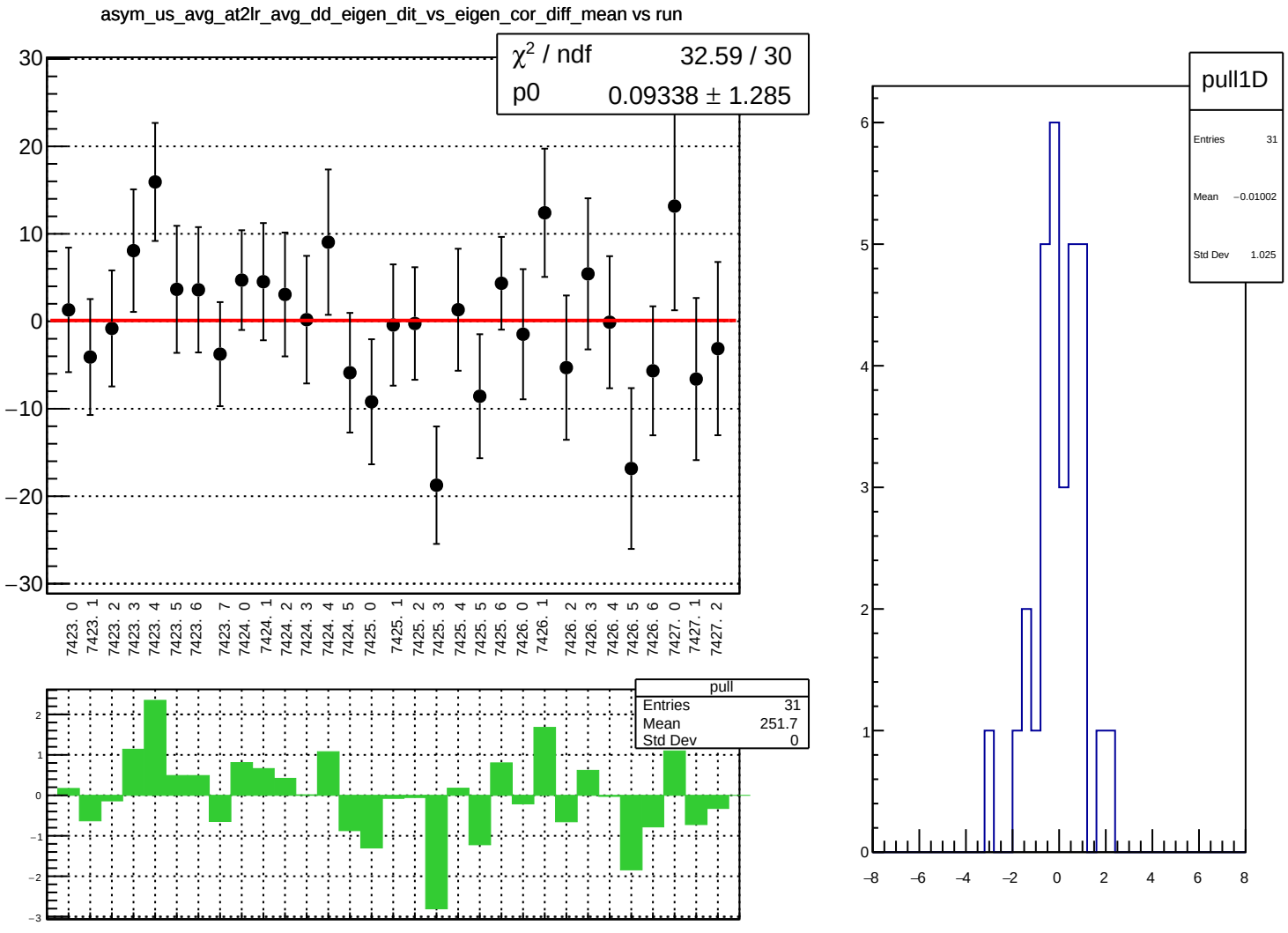

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.78 / 30
p0 −3.702e−05 ± 3.293e−05
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −176.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

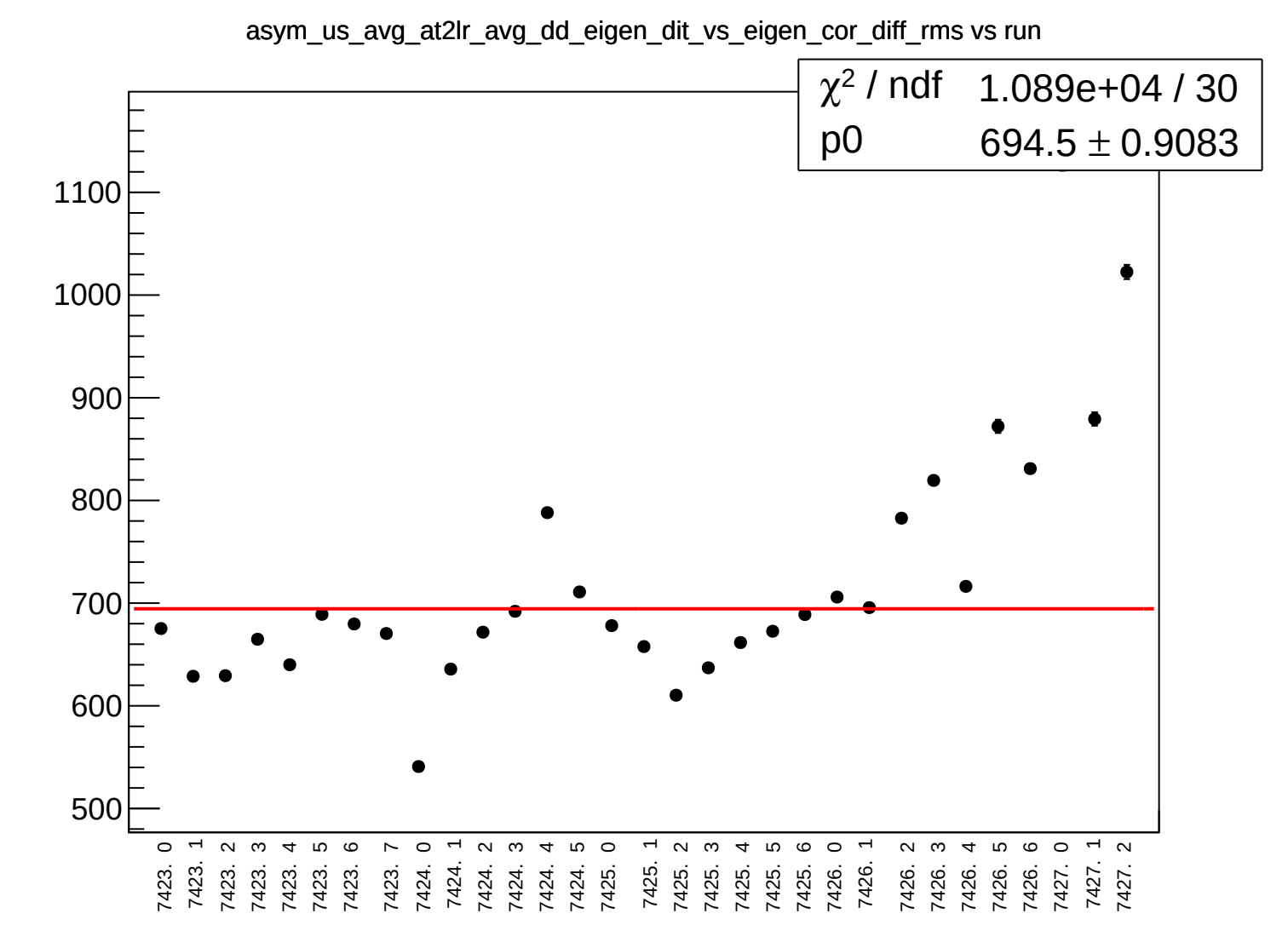

pull1D
Entries 31
Mean 0.01304
Std Dev 0.7783
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

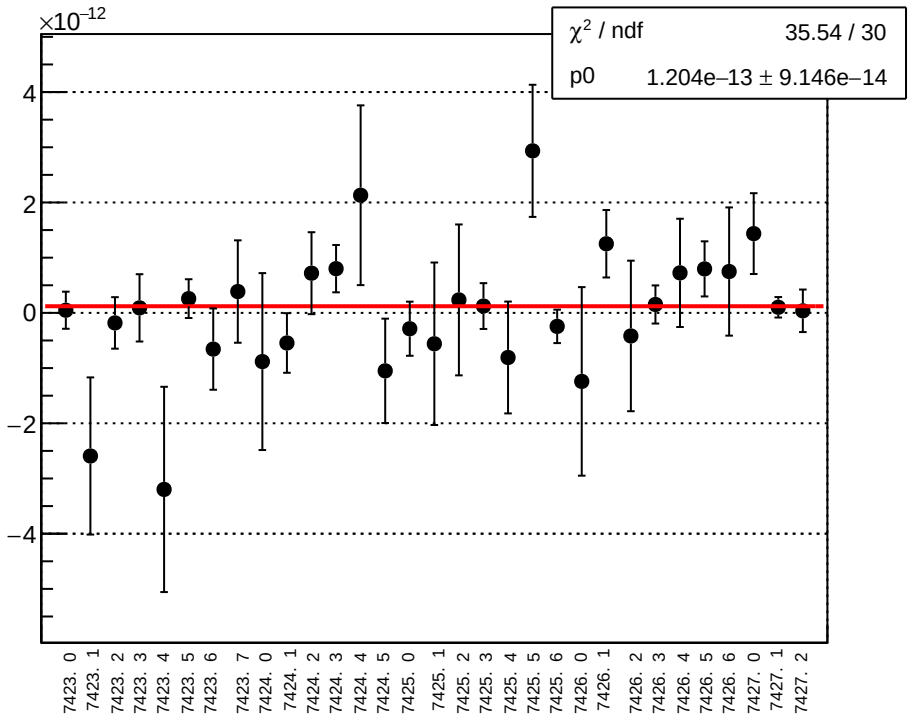

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1352 / 30
p0 0.01795 ± 2.329e–05
0.02
0.0195
0.019
0.0185
0.018
0.0175
0.017
0.0165
0.016
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

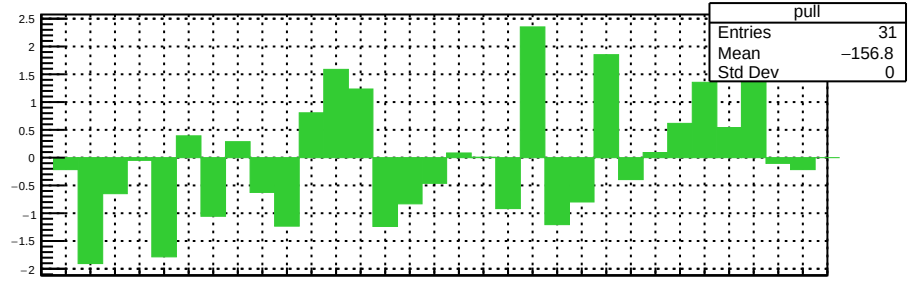

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.59 / 30
p0 0.09338 ± 1.285
pull
Entries 31
Mean 251.7
Std Dev 0
pull1D
Entries 31
Mean −0.01002
Std Dev 1.025

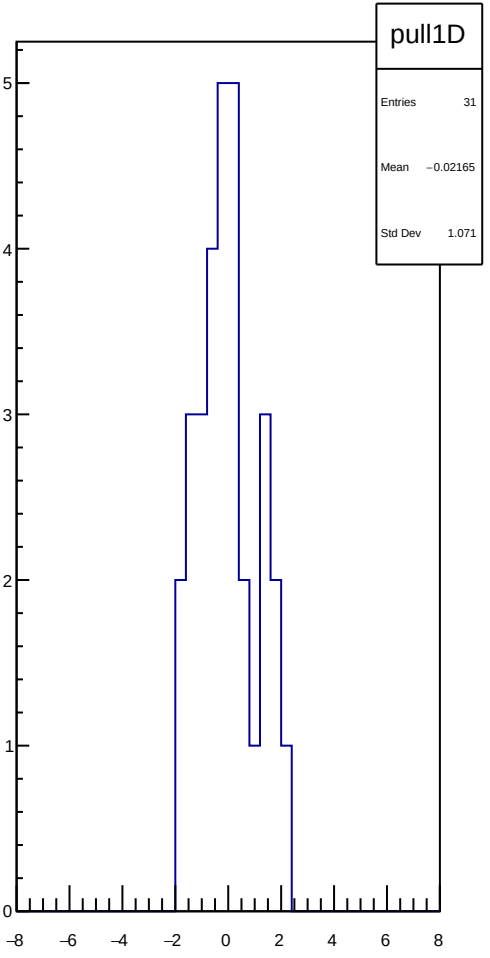

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.089e+04 / 30
p0 694.5 ± 0.9083
1100
1000
900
800
700
600
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

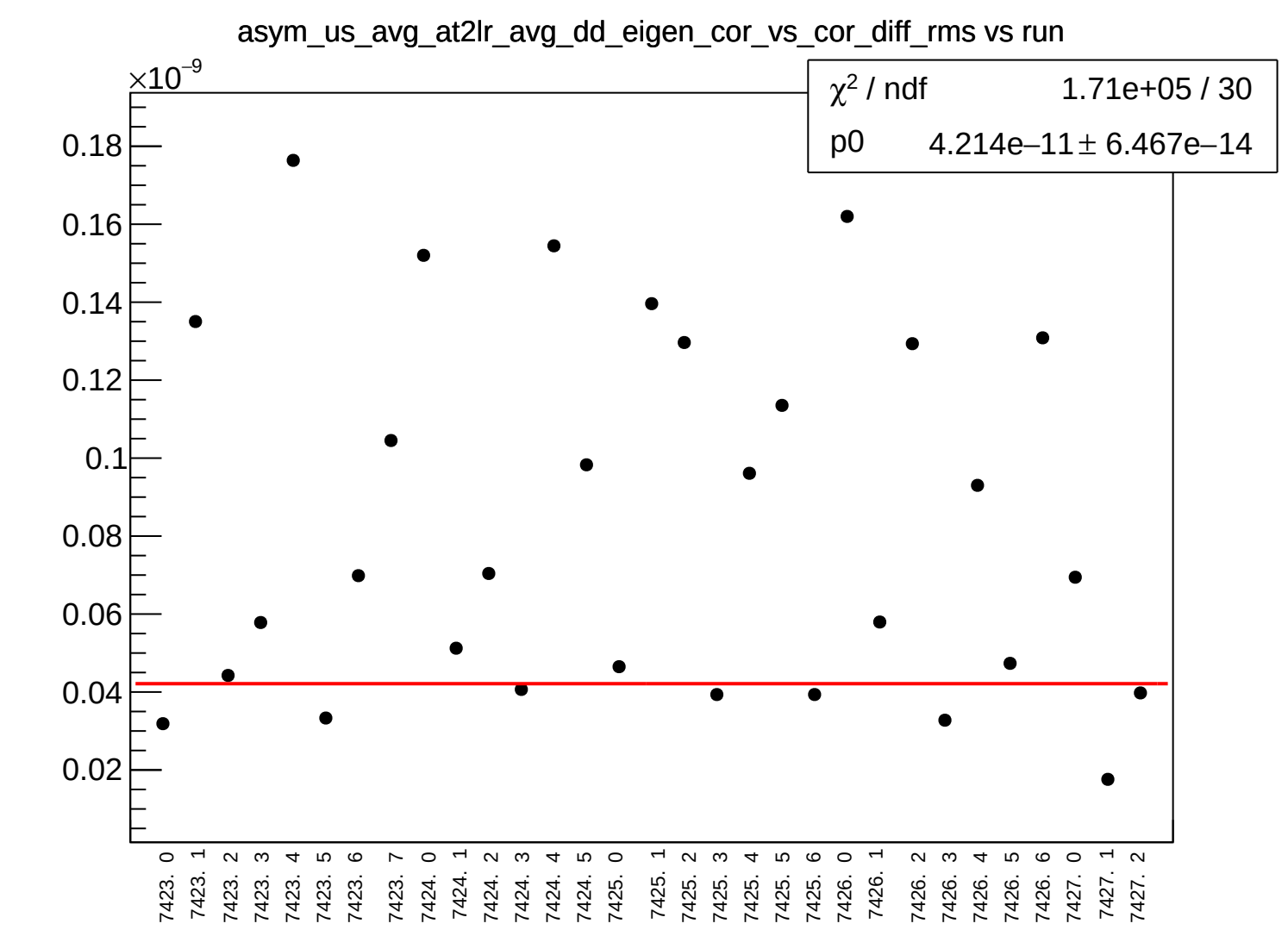

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.59 / 30
p0 0.09338 ± 1.285
pull
Entries 31
Mean 251.7
Std Dev 0
pull1D
Entries 31
Mean −0.01002
Std Dev 1.025

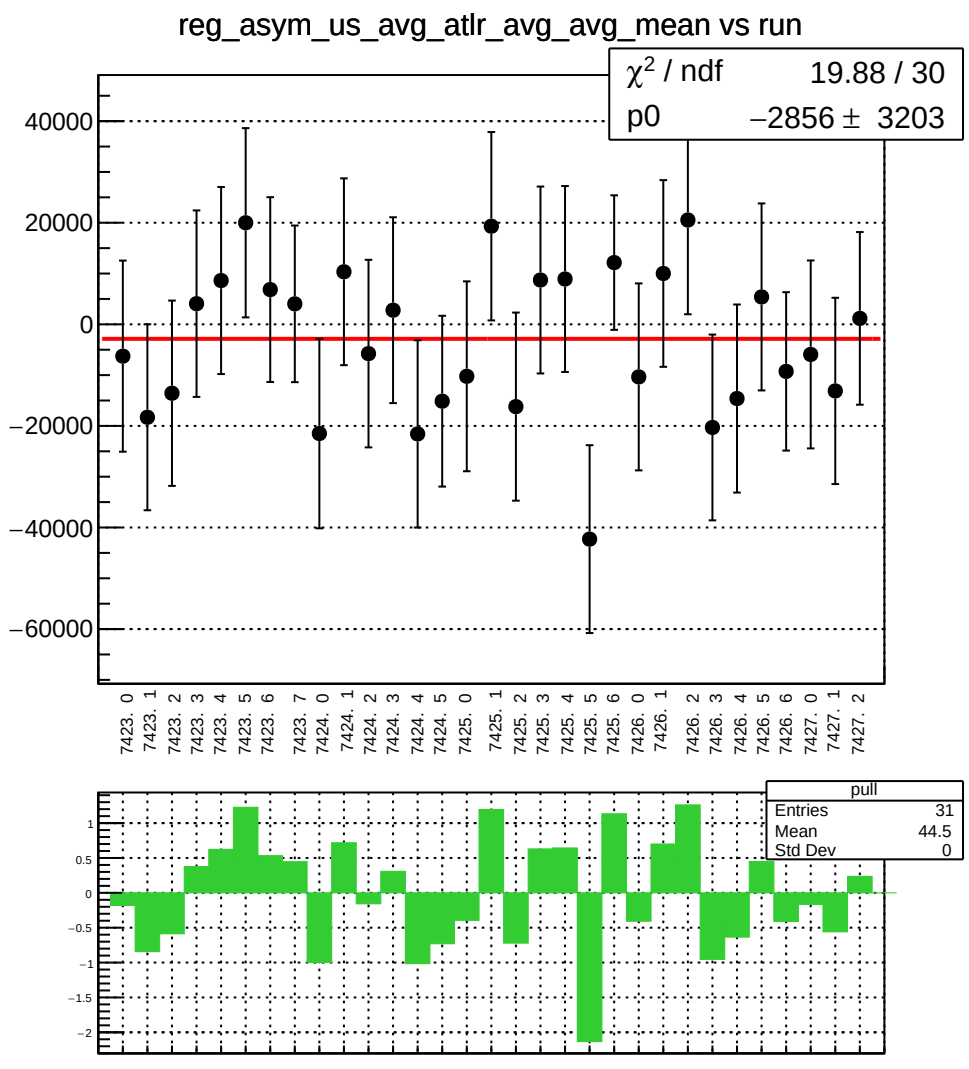

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.089e+04 / 30
p0 694.5 ± 0.9083
1100
1000
900
800
700
600
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

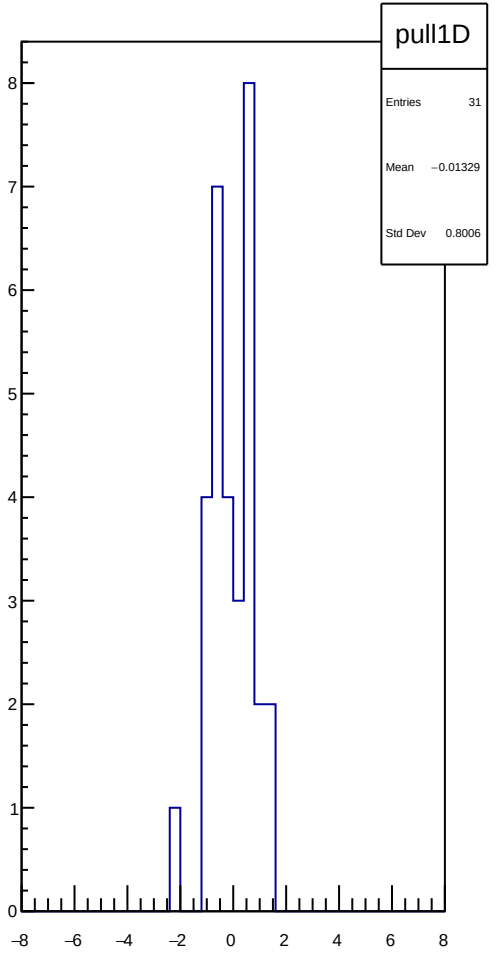

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.54 / 30
p0 1.204e−13 ± 9.146e−14
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

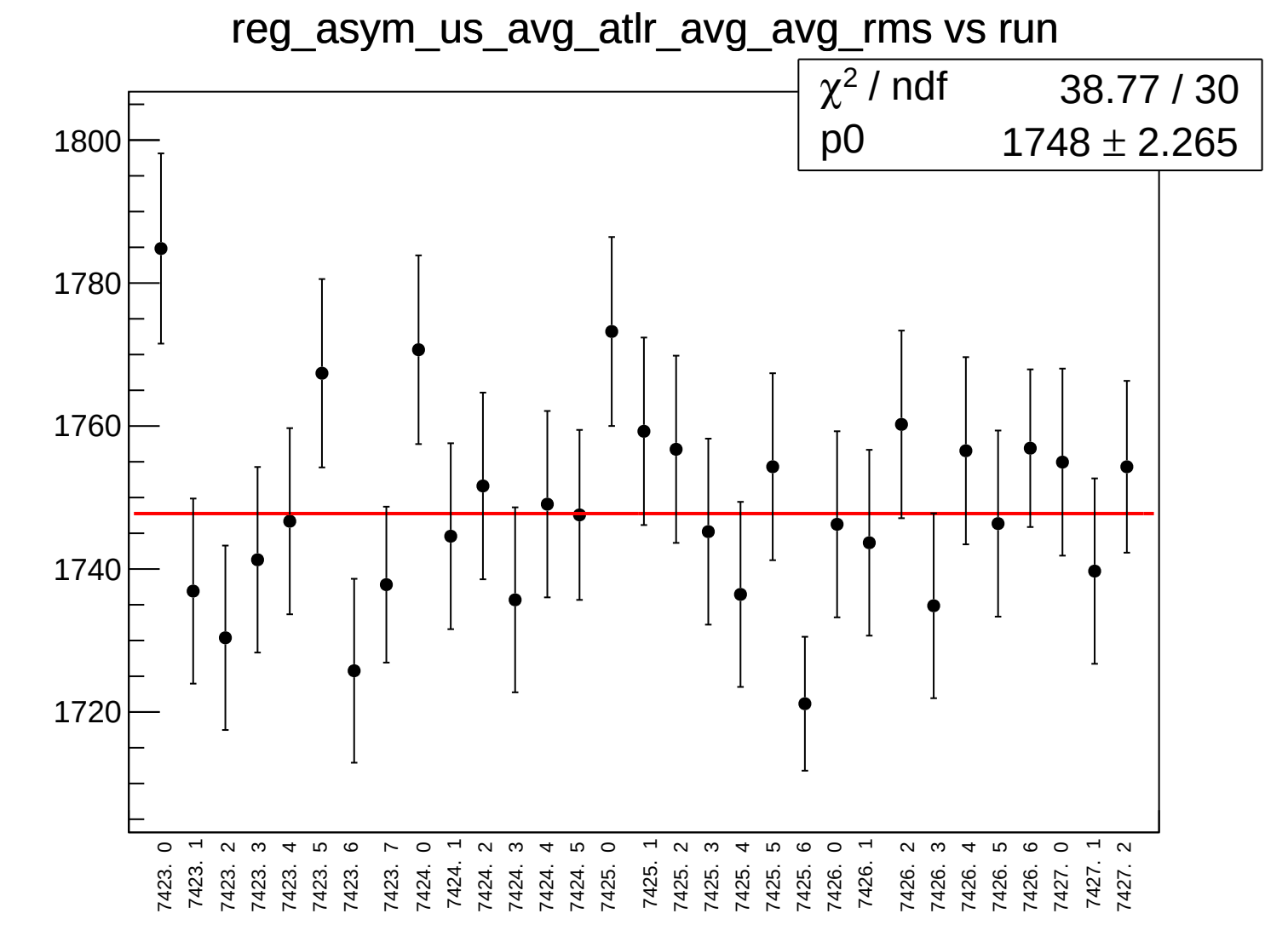

pull
Entries 31
Mean −156.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

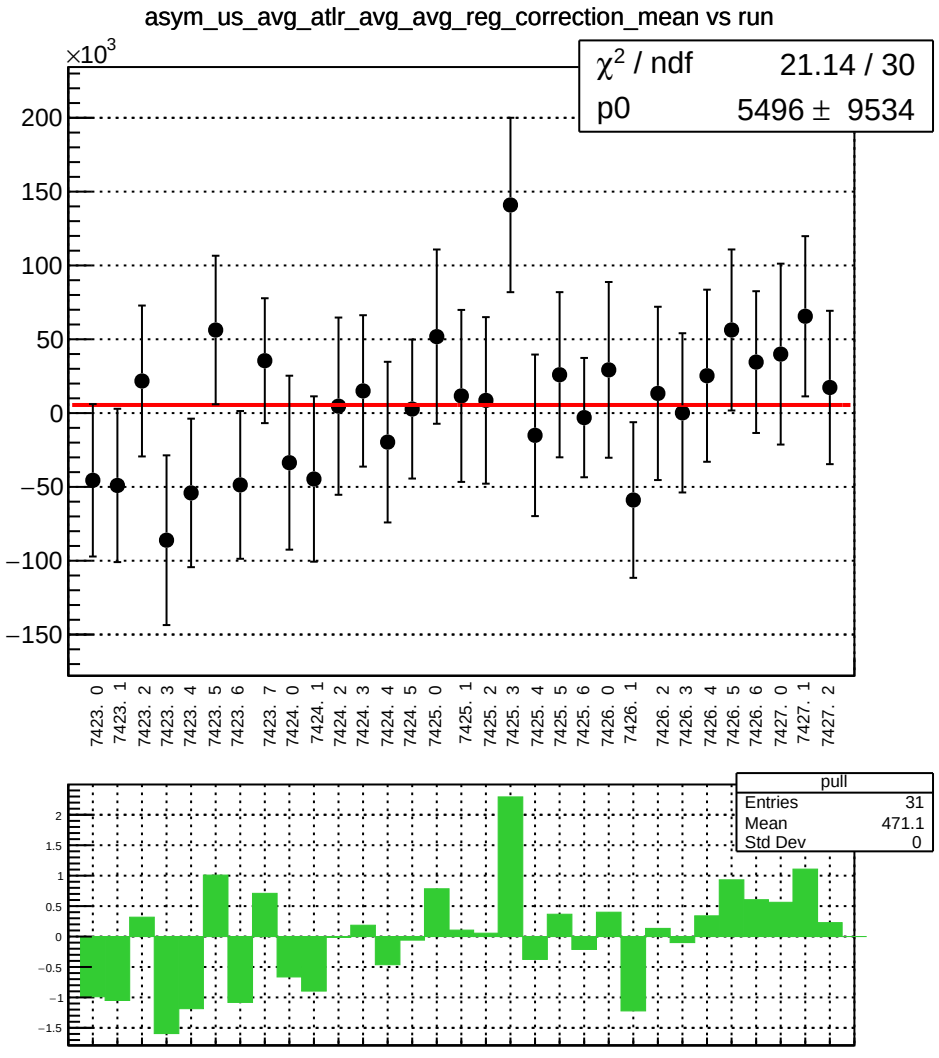

pull1D
Entries 31
Mean −0.02165
Std Dev 1.071
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

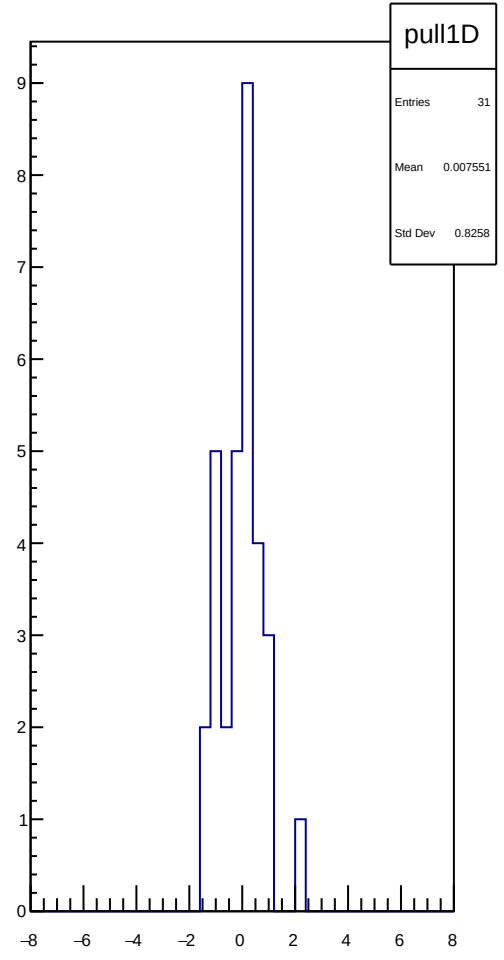

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.71e+05 / 30
p0 4.214e−11 ± 6.467e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

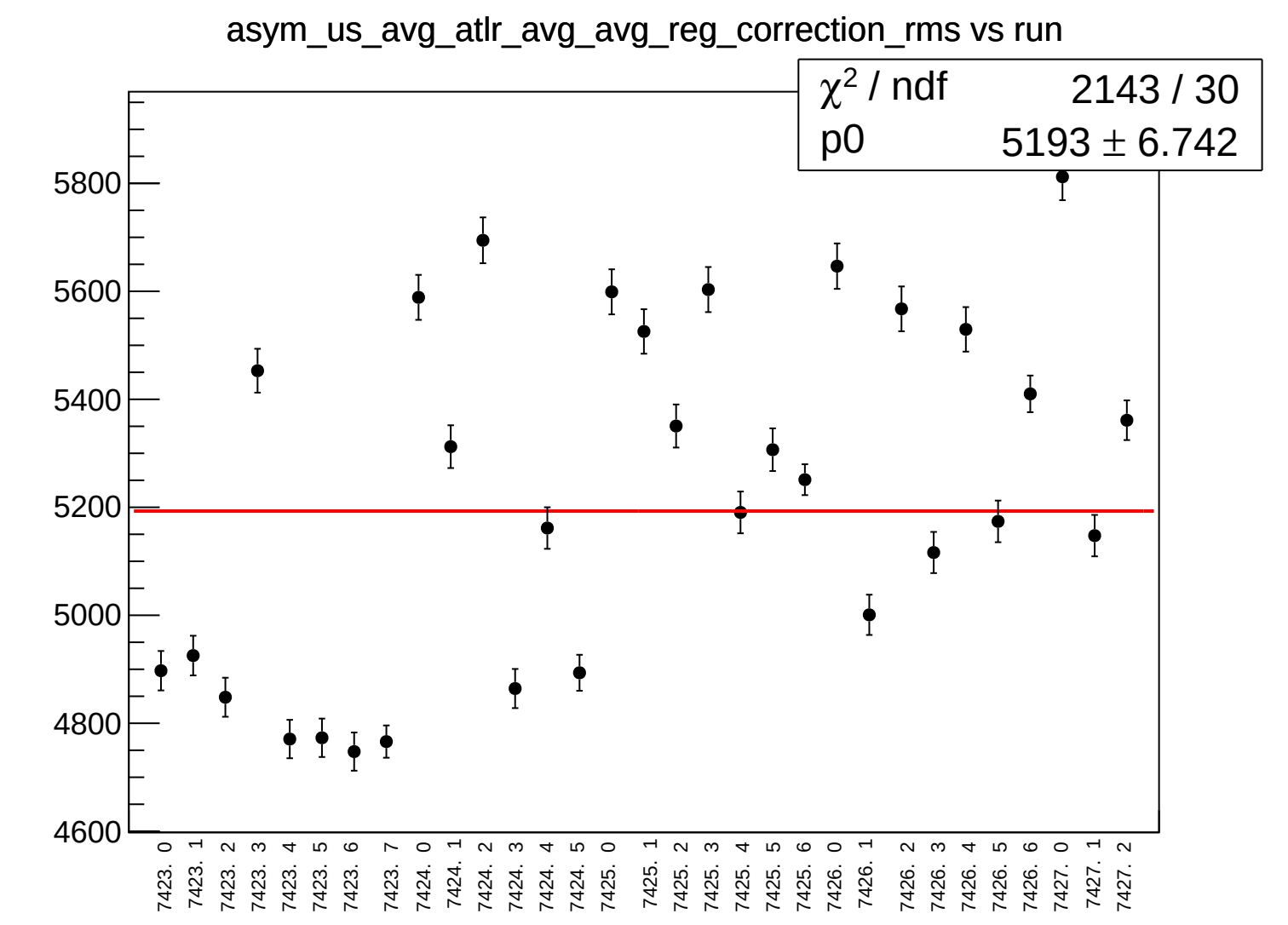

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 19.88 / 30
p0 −2856 ± 3203
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 44.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

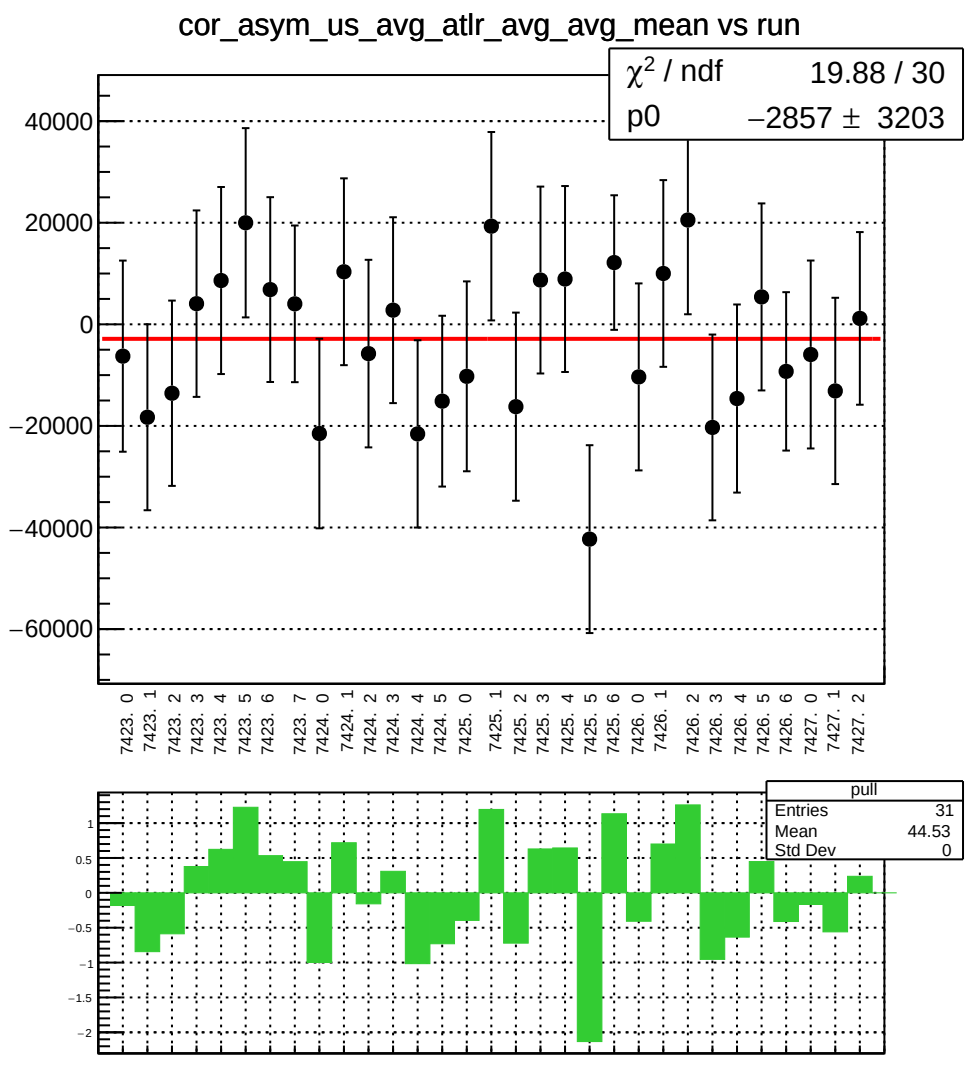

pull1D
Entries 31
Mean −0.01329
Std Dev 0.8006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

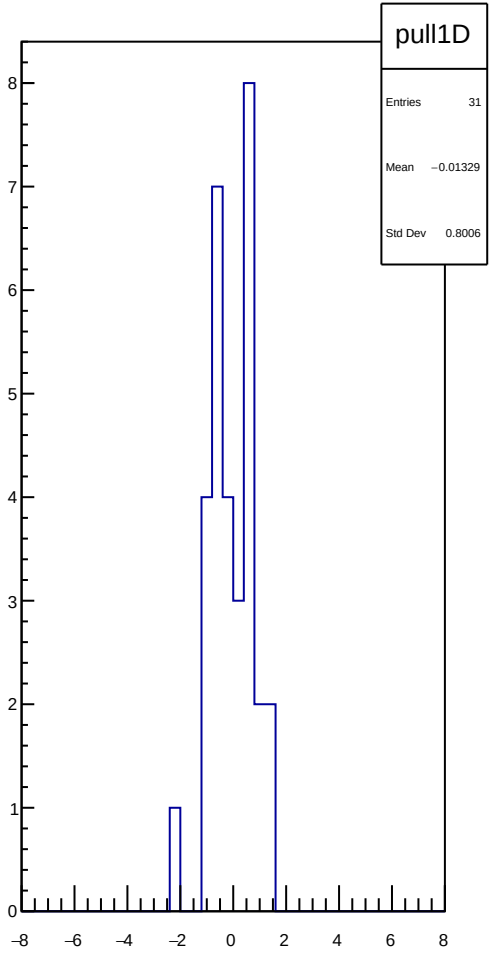

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 38.77 / 30
p0 1748 ± 2.265
1800
1780
1760
1740
1720
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

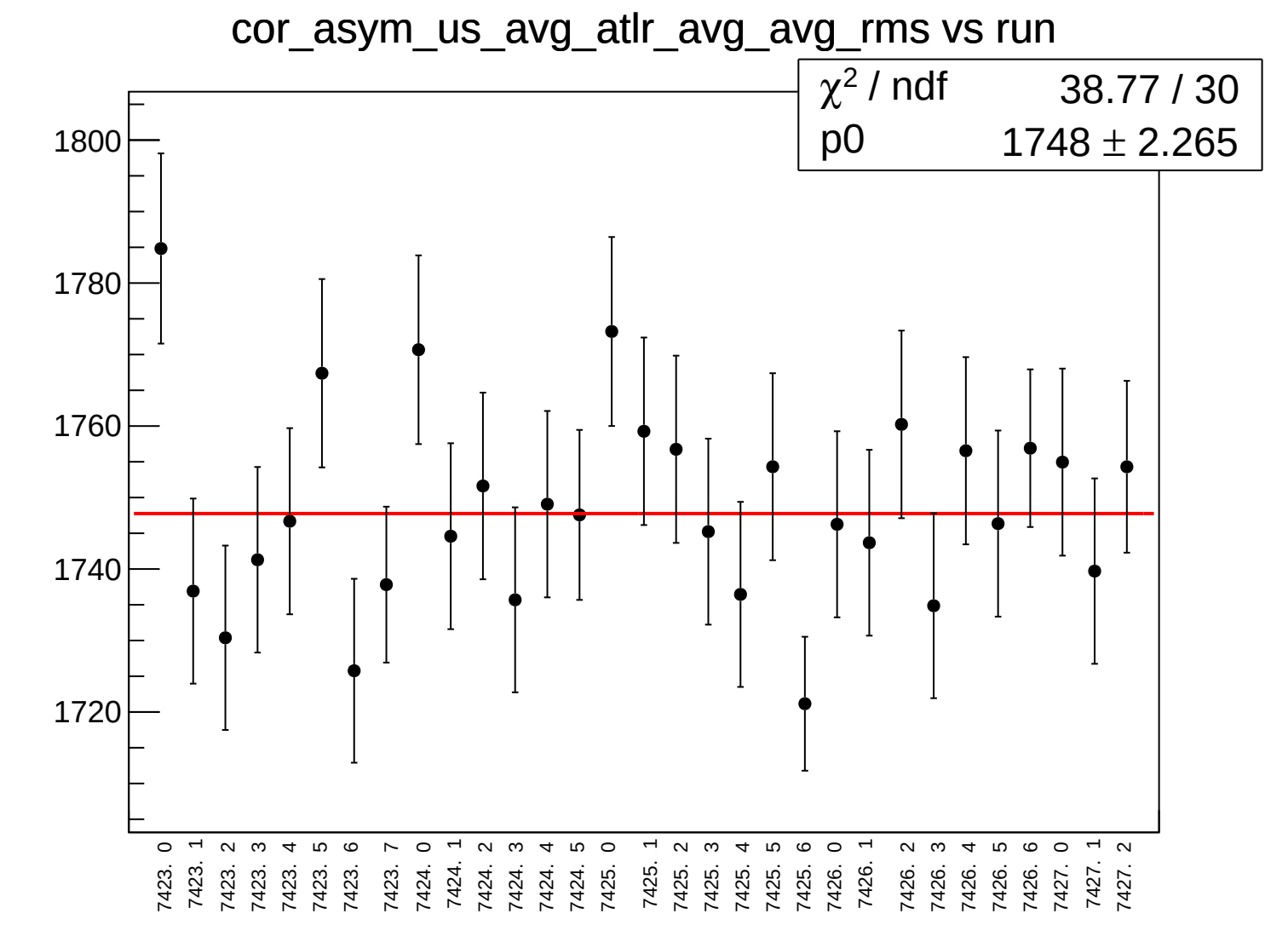

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 21.14 / 30
p0 5496 ± 9534
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 471.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

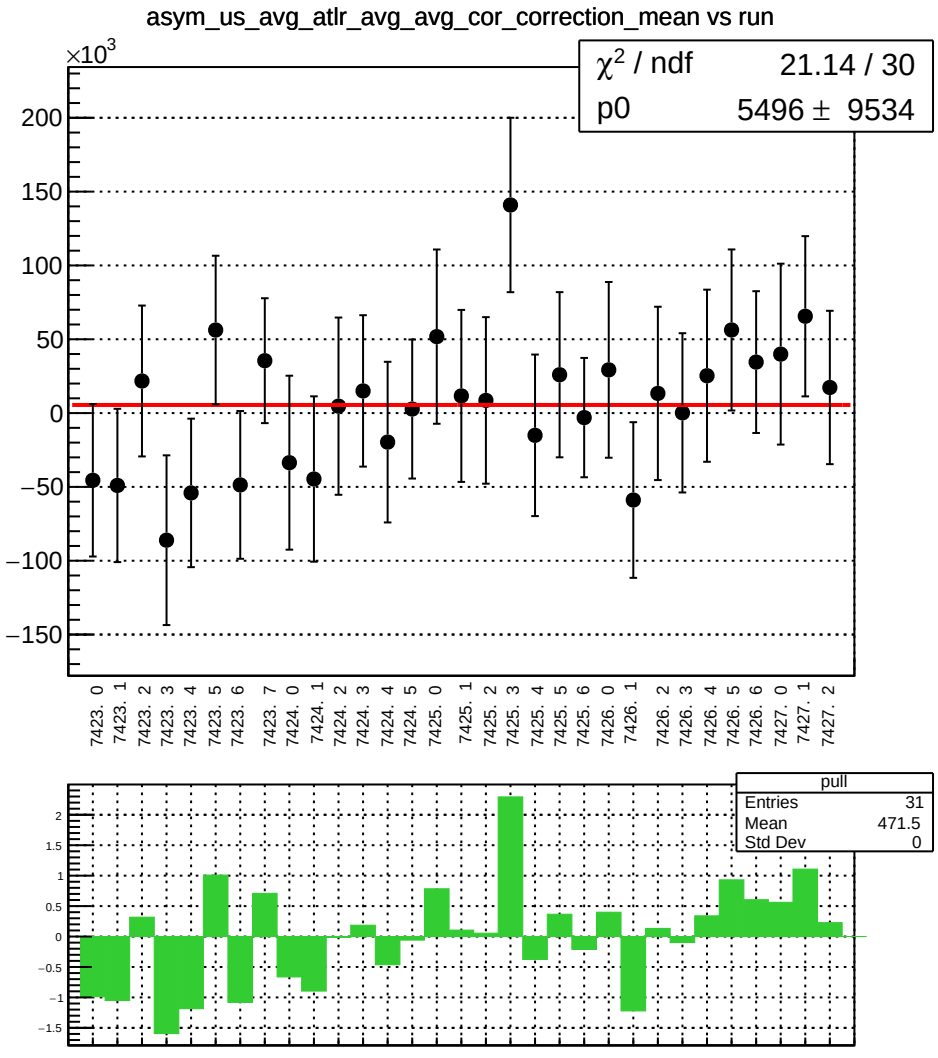

pull1D
Entries 31
Mean 0.007551
Std Dev 0.8258
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

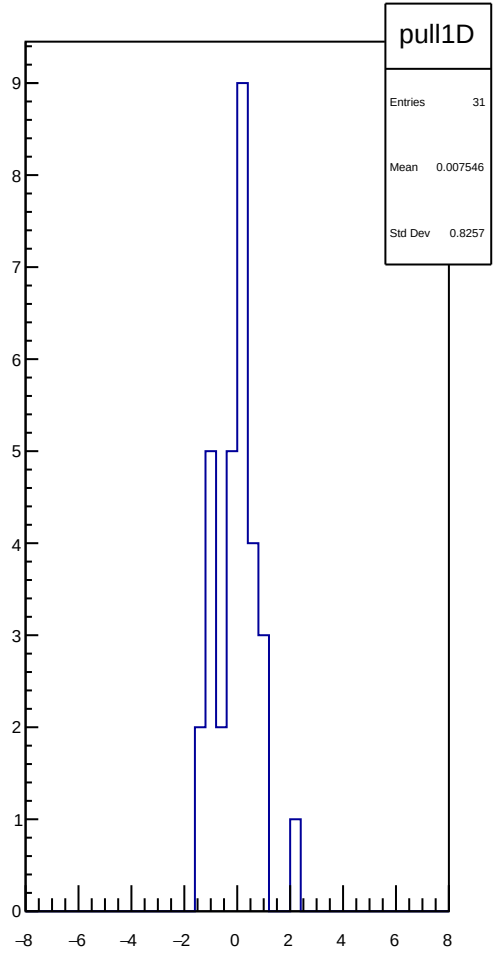

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 2143 / 30
p0 5193 ± 6.742
5800
5600
5400
5200
5000
4800
4600
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

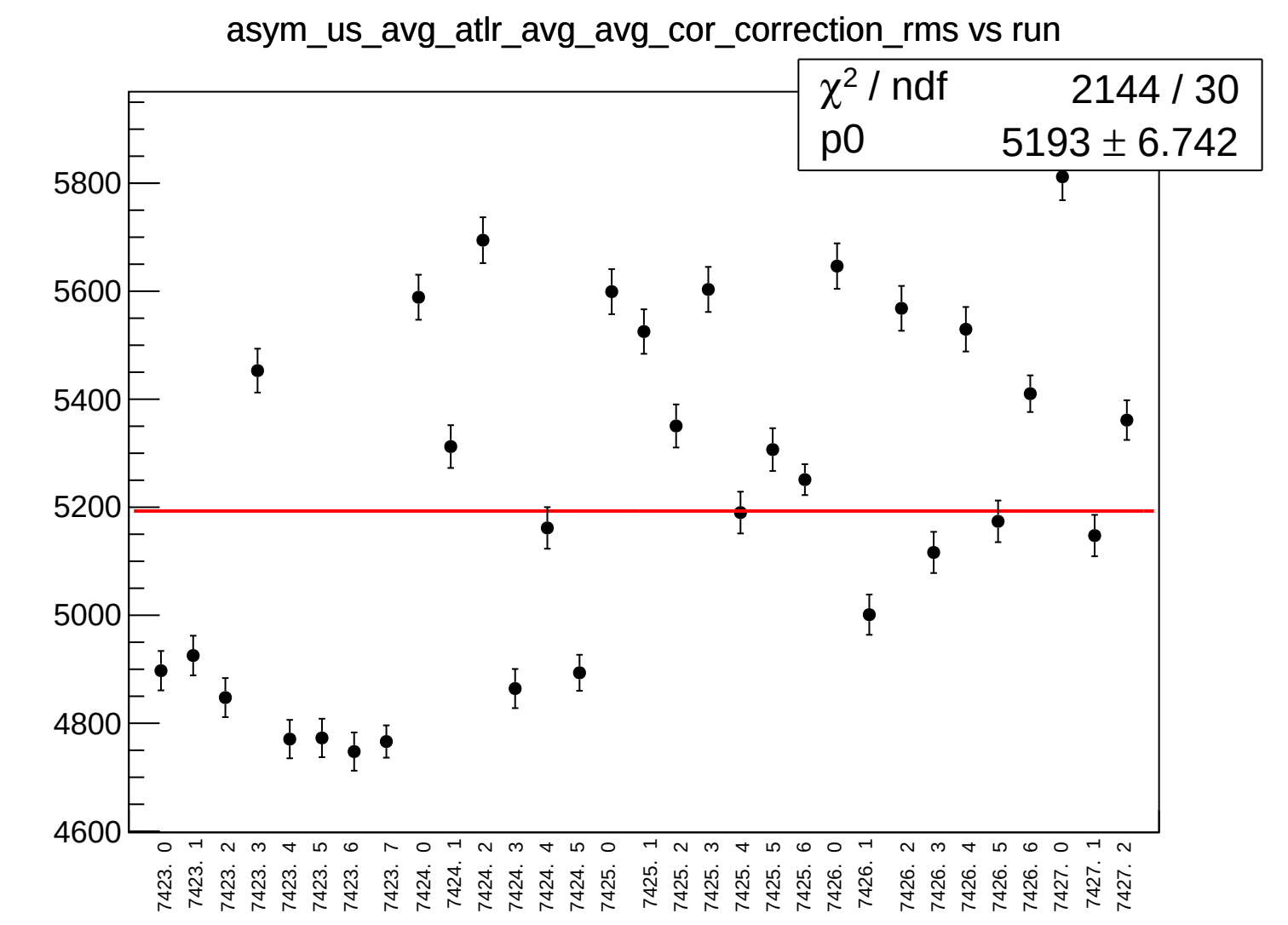

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 19.88 / 30
p0 −2857 ± 3203
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 44.53
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

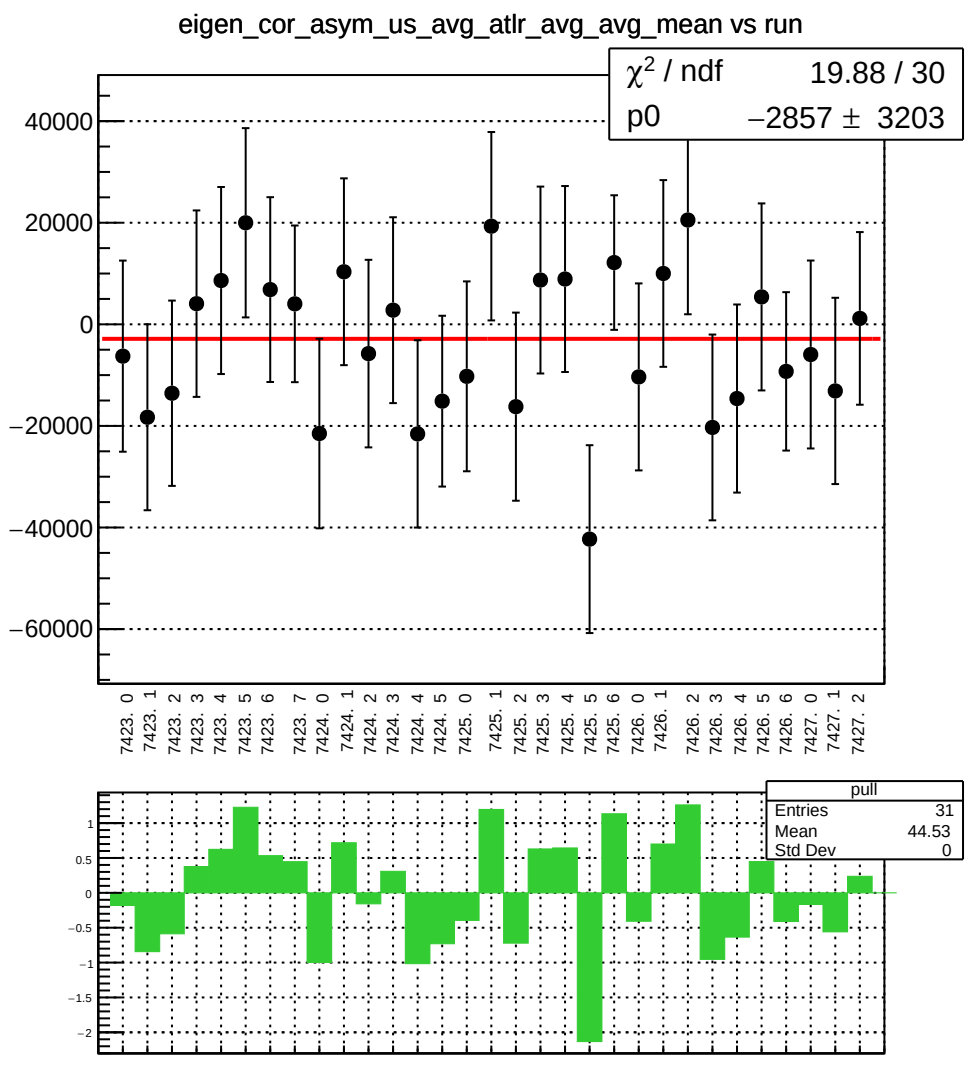

pull1D
Entries 31
Mean −0.01329
Std Dev 0.8006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

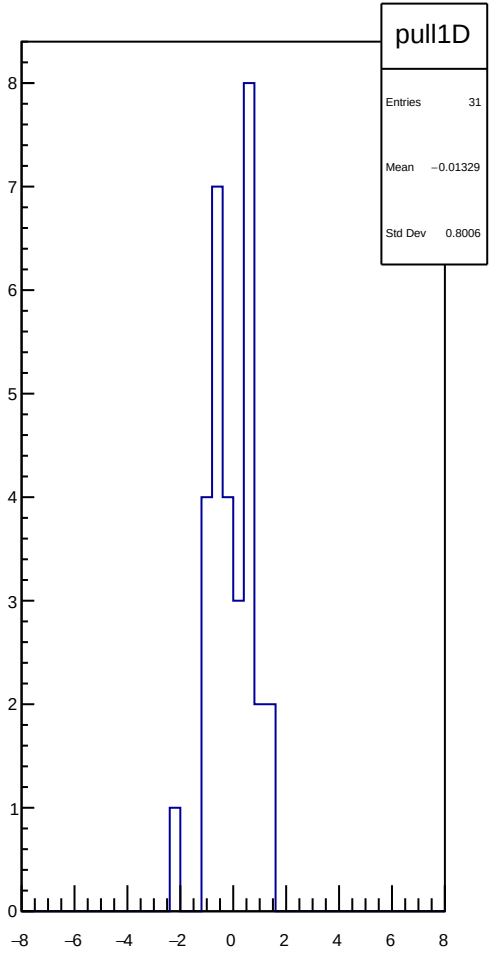

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 38.77 / 30
p0 1748 ± 2.265
1800
1780
1760
1740
1720
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

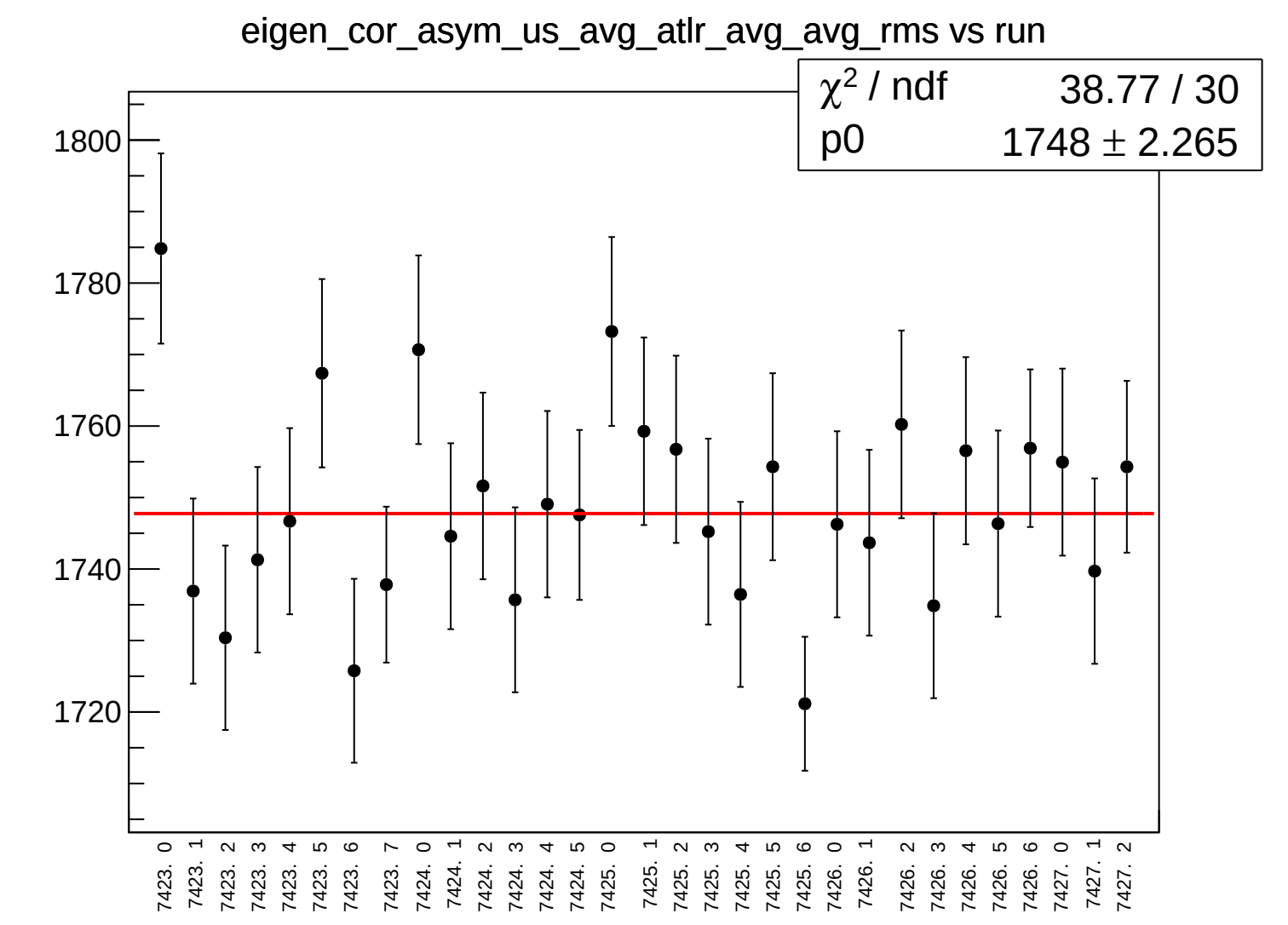

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 21.14 / 30
p0 5496 ± 9534
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 471.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

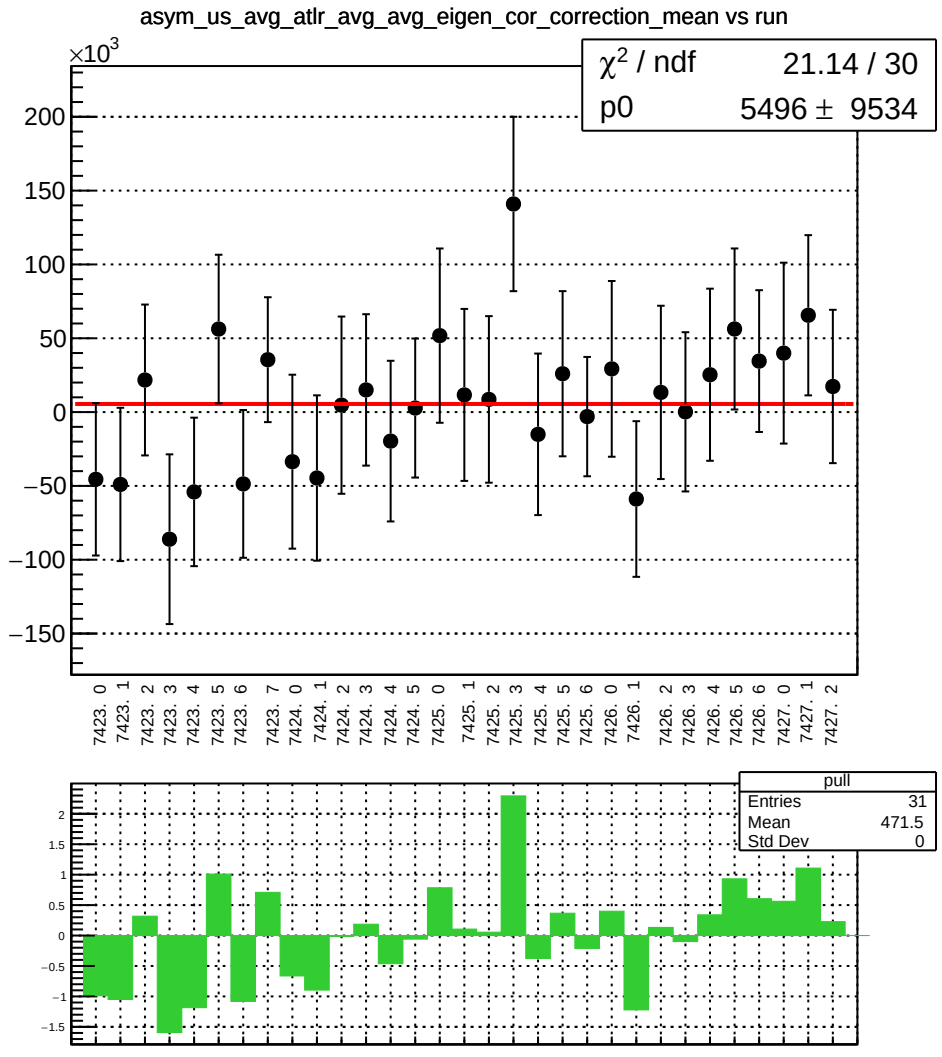

pull1D
Entries 31
Mean 0.007546
Std Dev 0.8257
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

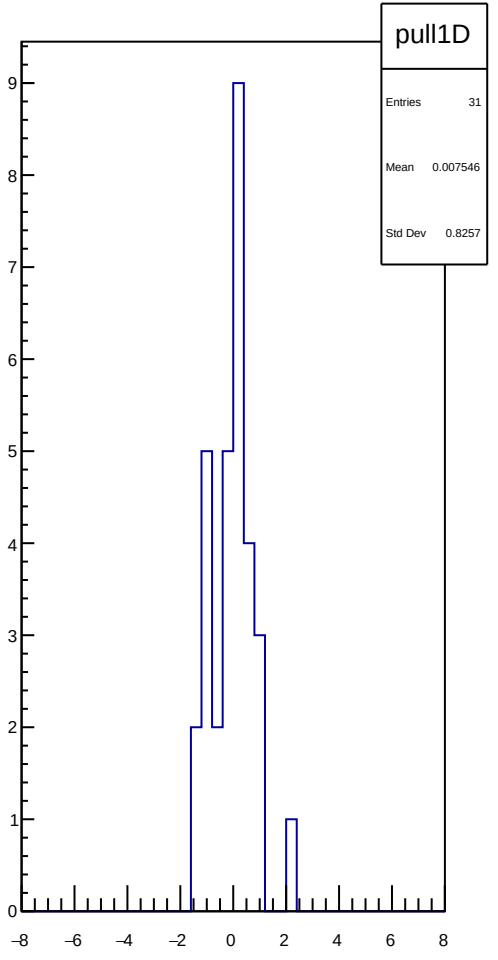

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 2144 / 30
p0 5193 ± 6.742
5800
5600
5400
5200
5000
4800
4600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

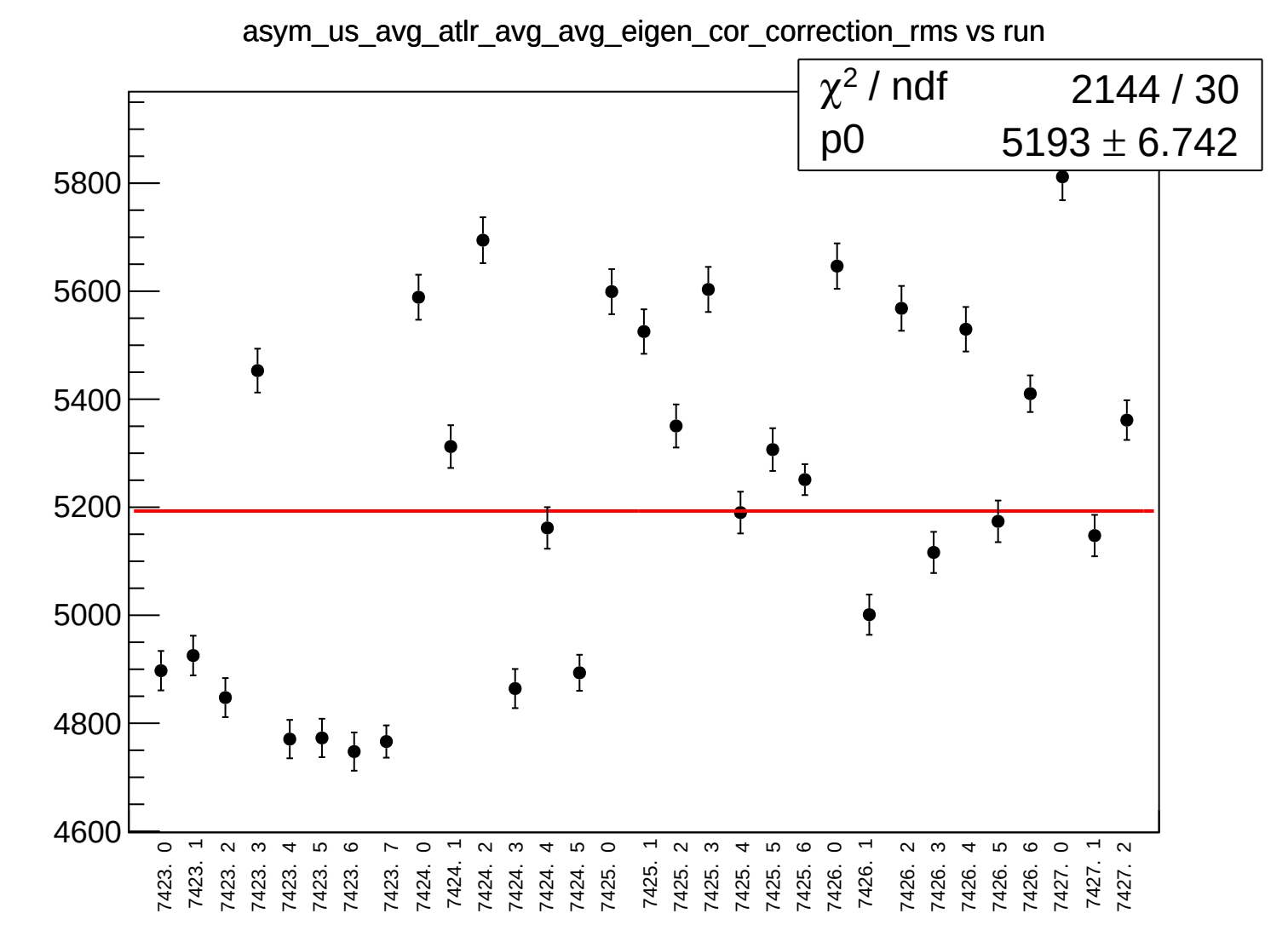

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 19.88 / 30
p0 −2857 ± 3203
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 44.53
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

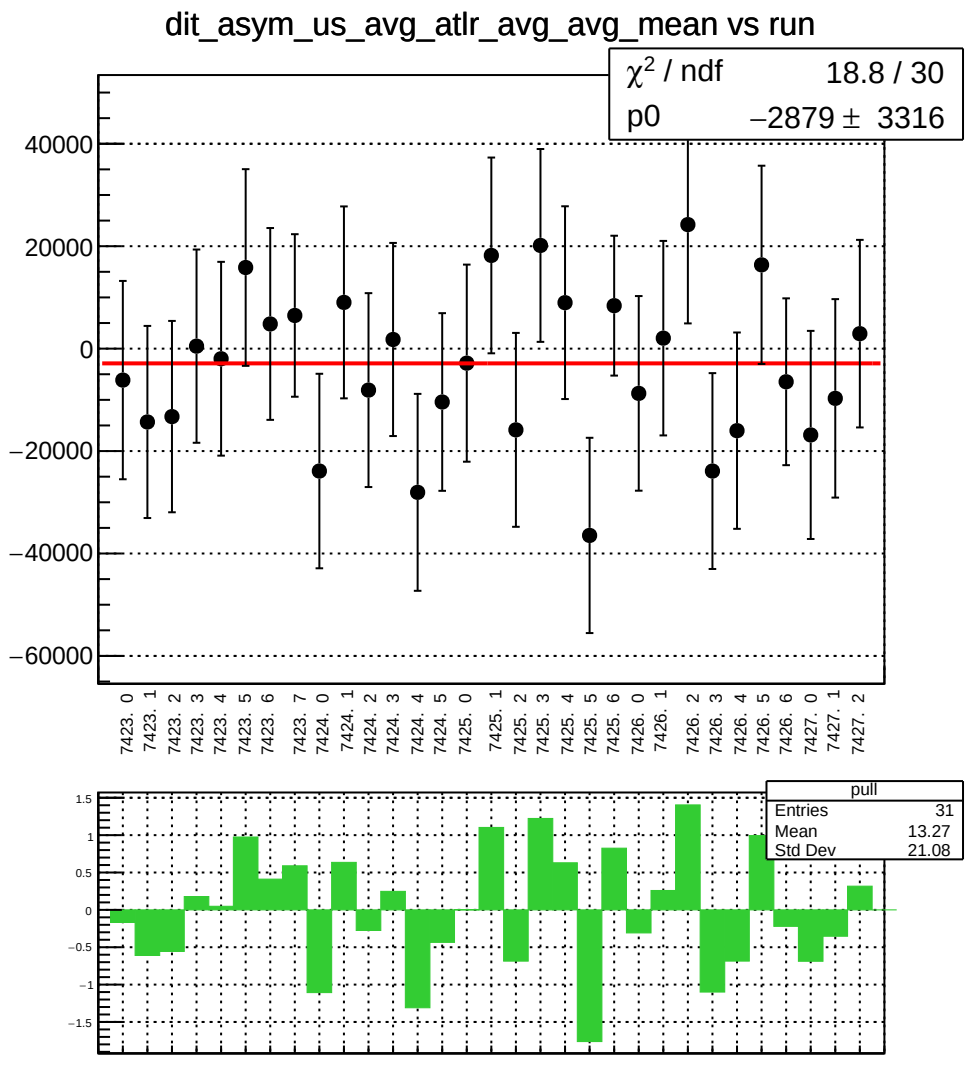

pull1D
Entries 31
Mean −0.01329
Std Dev 0.8006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

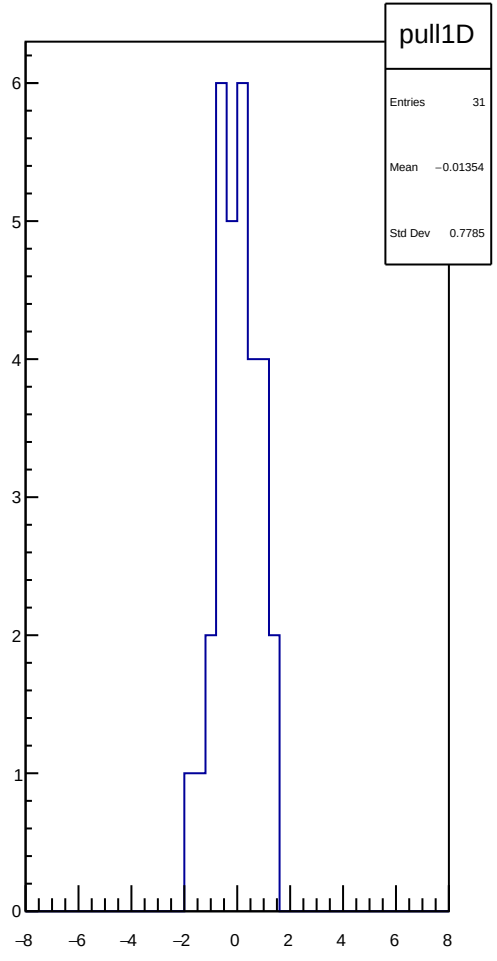

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 38.77 / 30
p0 1748 ± 2.265
1800
1780
1760
1740
1720
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

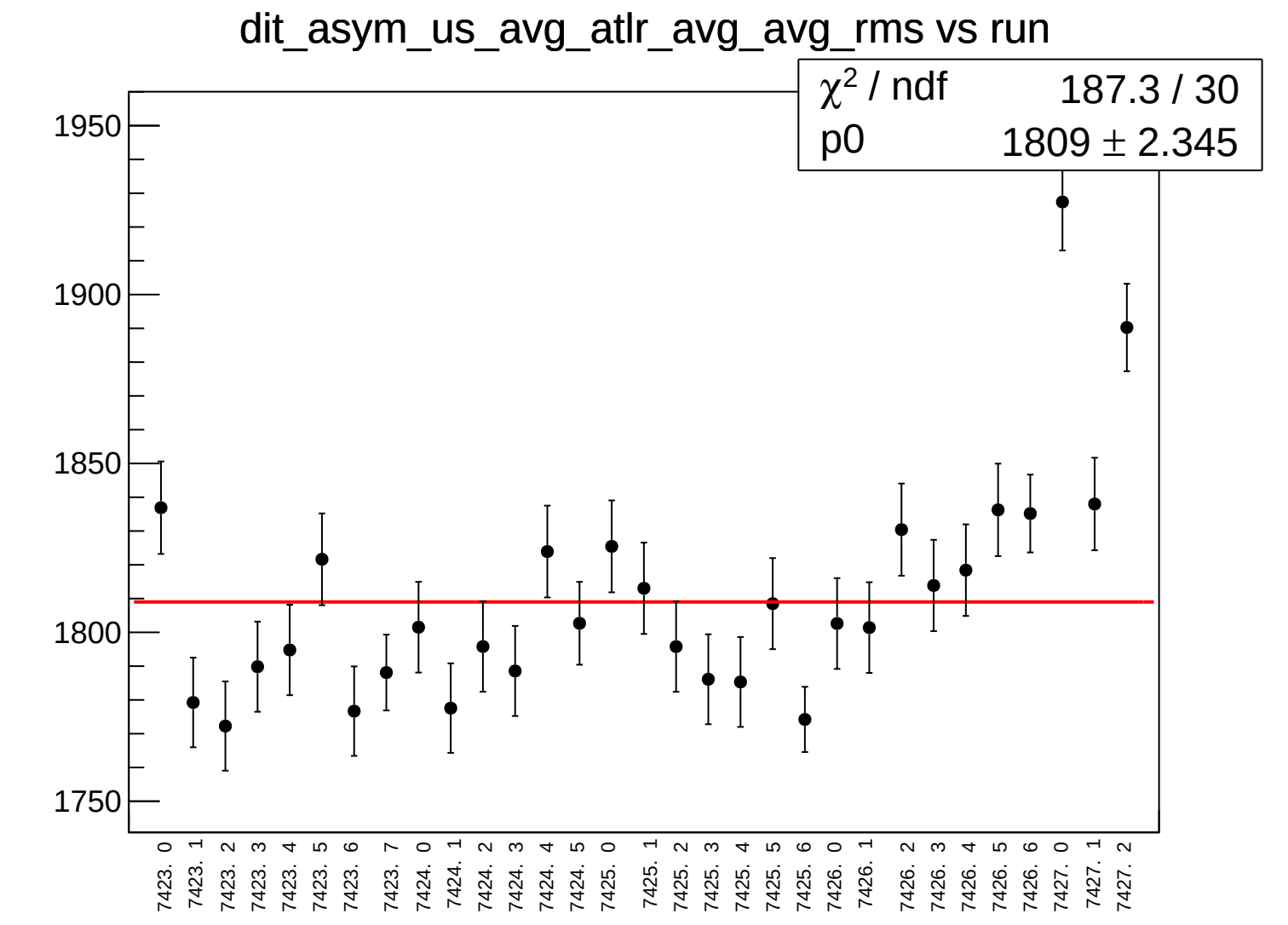

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 21.14 / 30
p0 5496 ± 9534
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 471.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

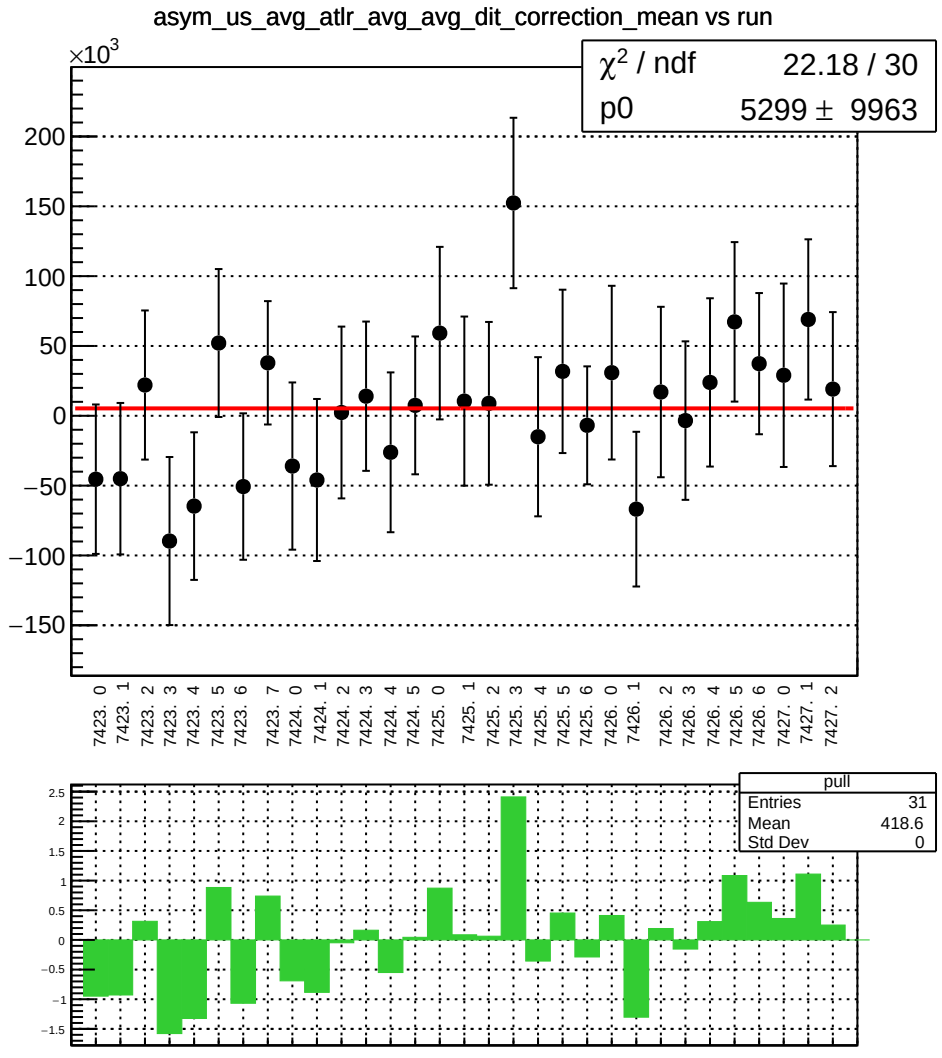

pull1D
Entries 31
Mean 0.007546
Std Dev 0.8257
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

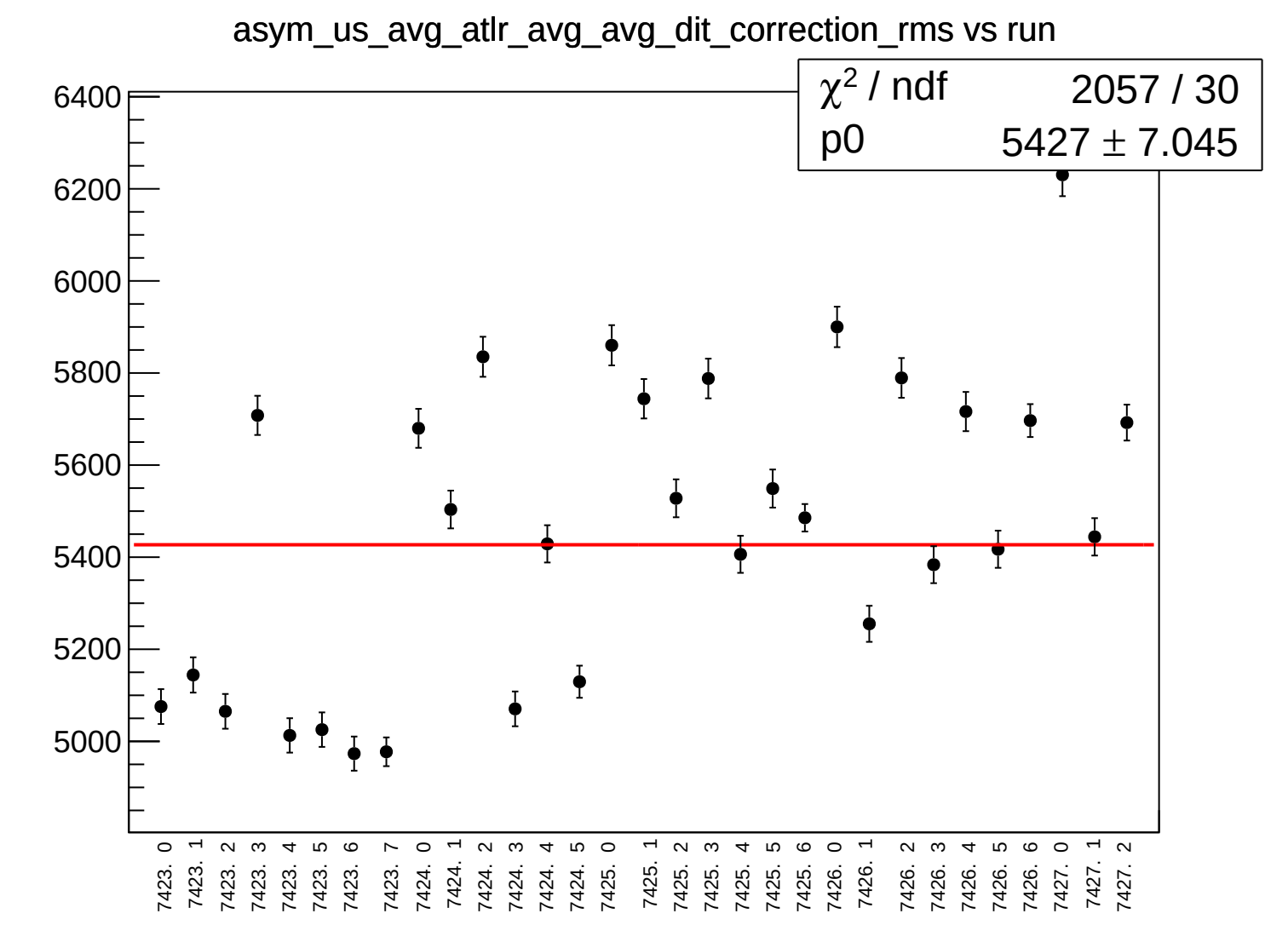

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2144 / 30
p0 5193 ± 6.742
5800
5600
5400
5200
5000
4800
4600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

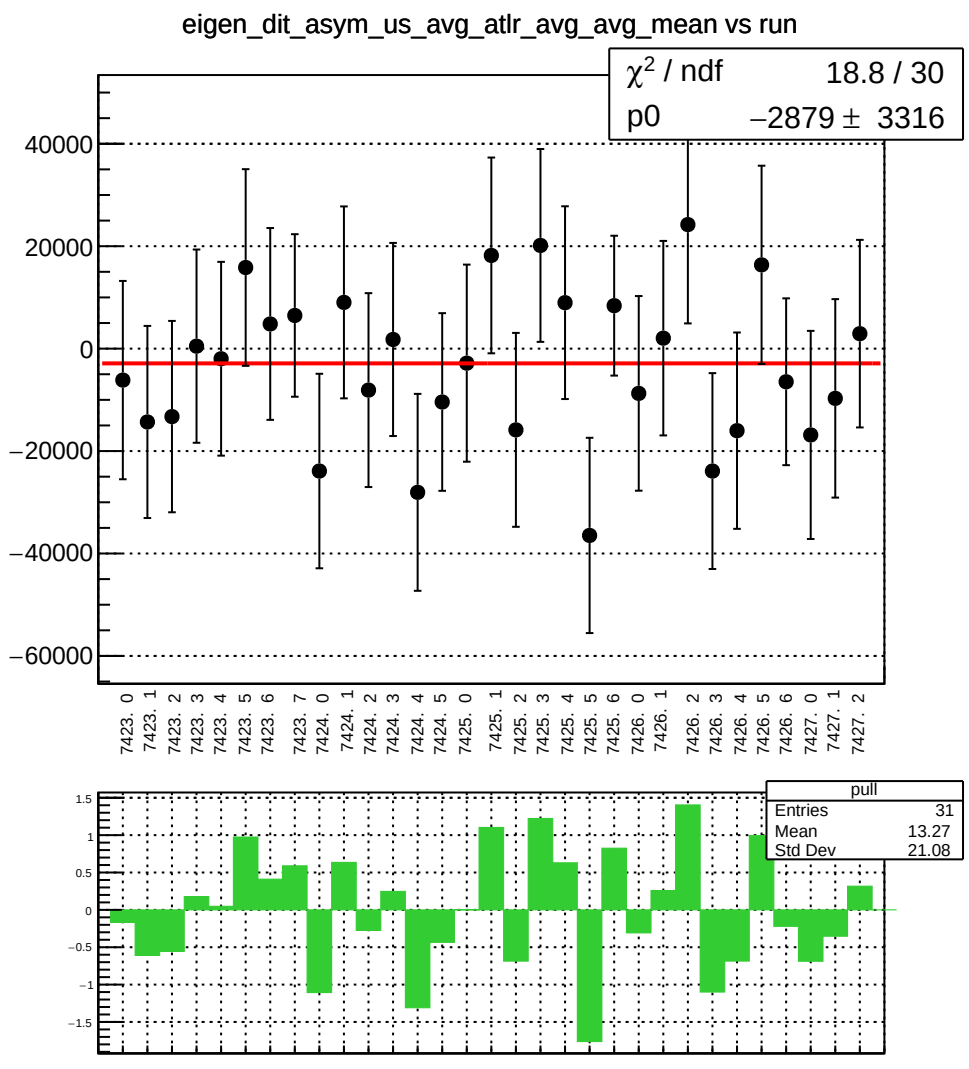

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 18.8 / 30
p0 −2879 ± 3316
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 13.27
Std Dev 21.08
1.5
1
0.5
0
−0.5
−1
−1.5

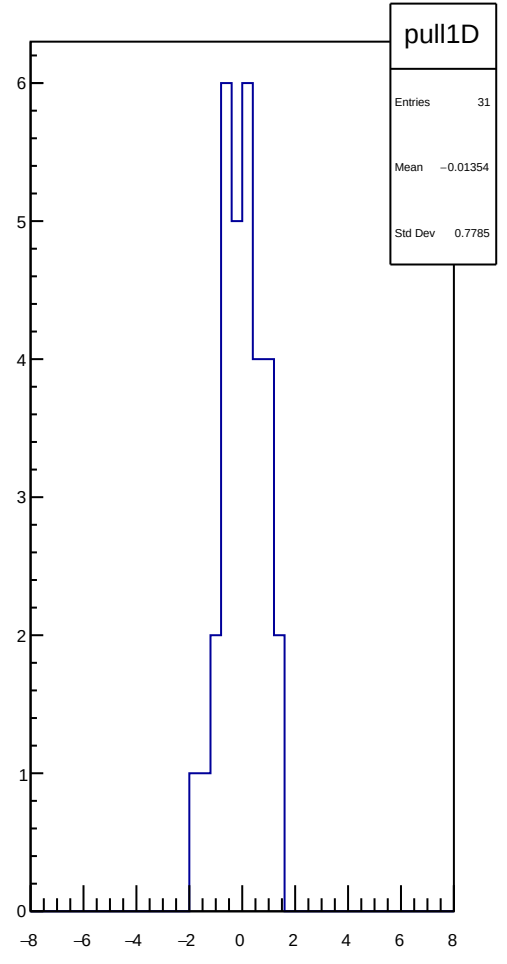

pull1D
Entries 31
Mean −0.01354
Std Dev 0.7785
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

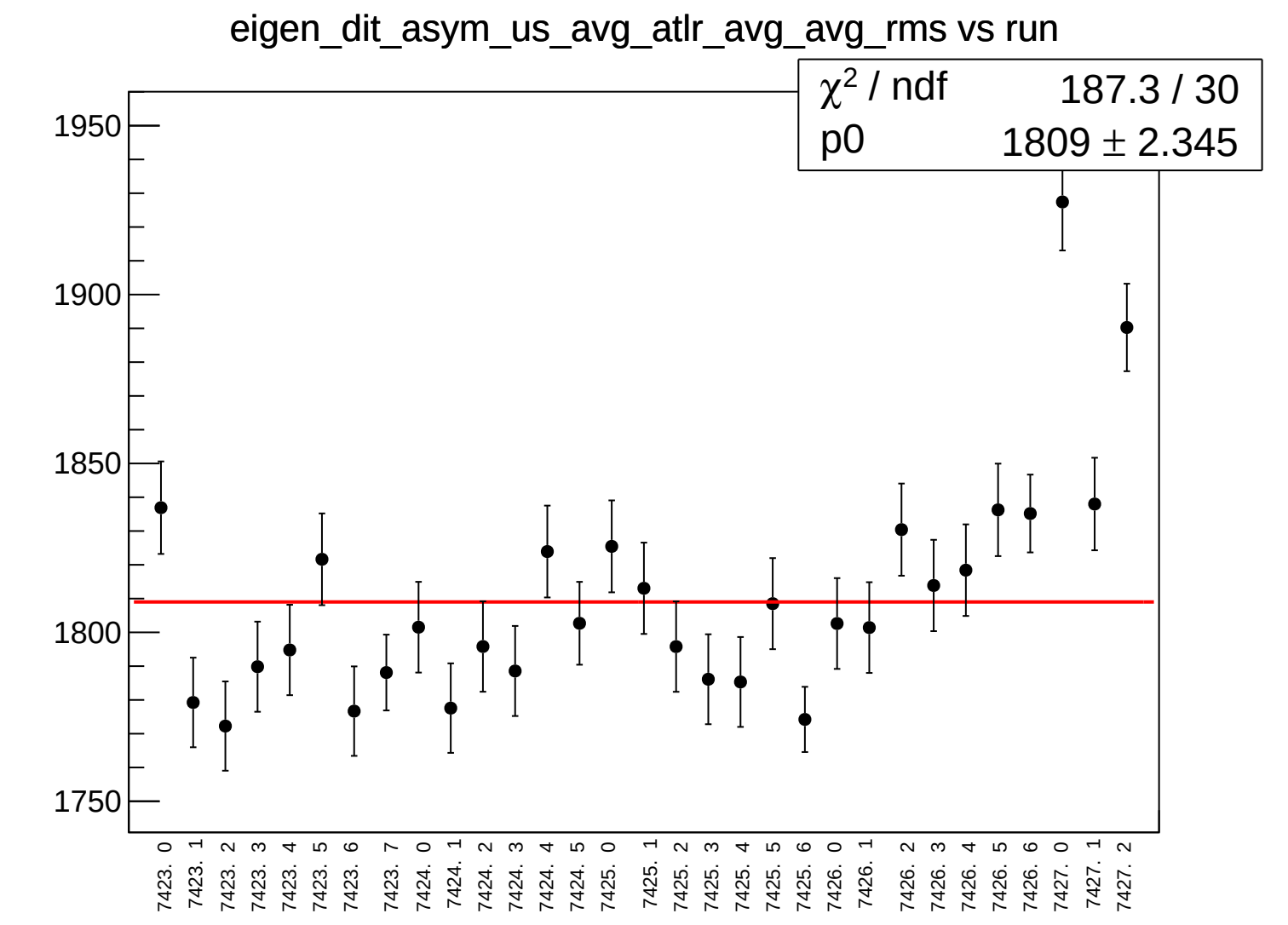

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 187.3 / 30
p0 1809 ± 2.345
1950
1900
1850
1800
1750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

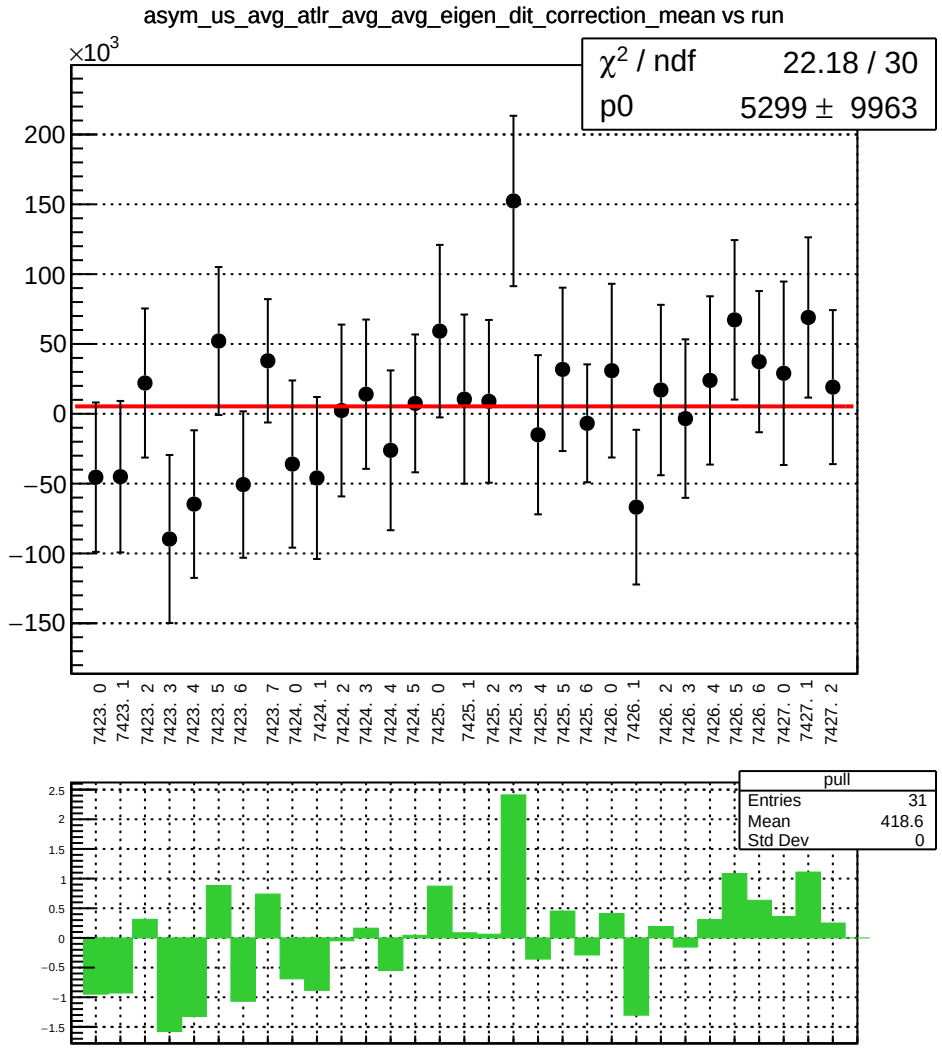

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 22.18 / 30
p0 5299 ± 9963
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 418.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.008499
Std Dev 0.8459
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

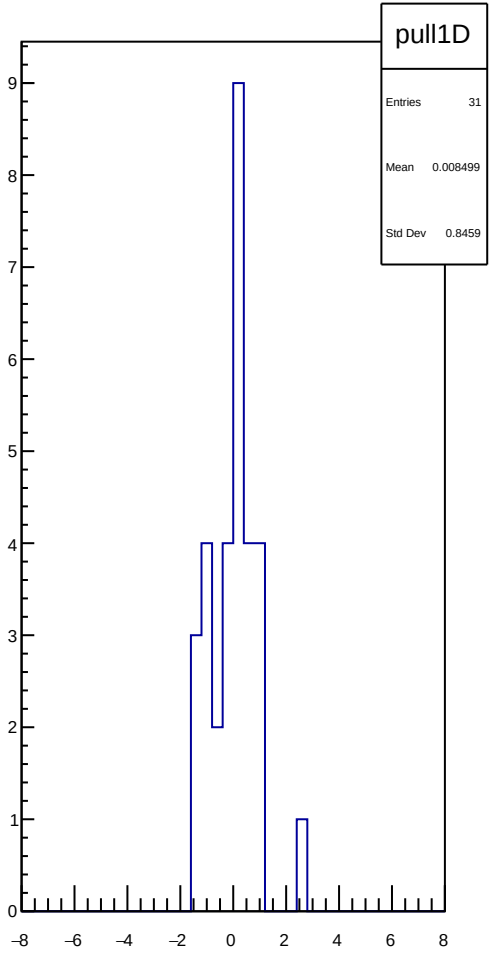

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 2057 / 30
p0 5427 ± 7.045
6400
6200
6000
5800
5600
5400
5200
5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

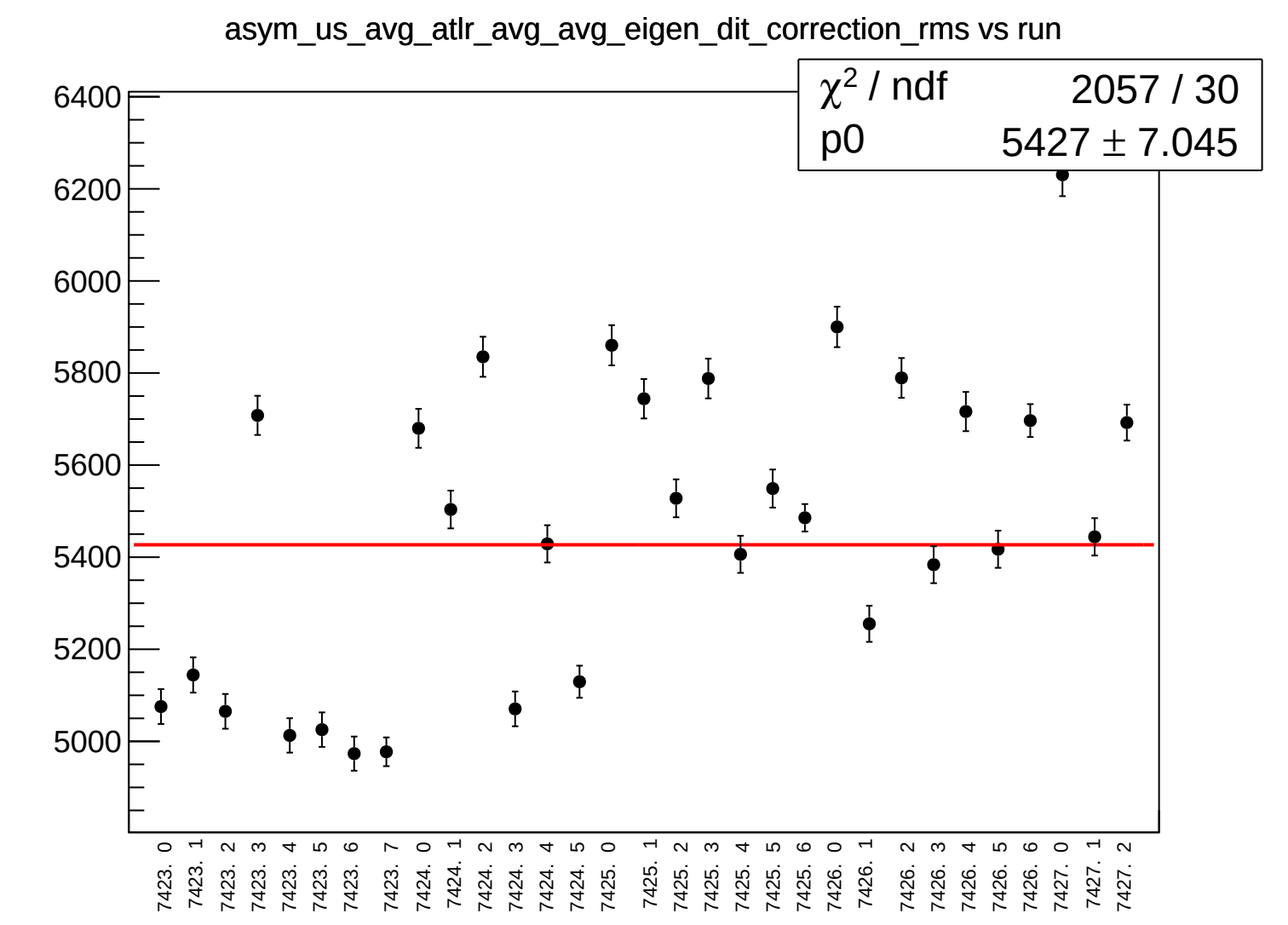

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 18.8 / 30
p0 −2879 ± 3316
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 13.27
Std Dev 21.08
1.5
1
0.5
0
−0.5
−1
−1.5

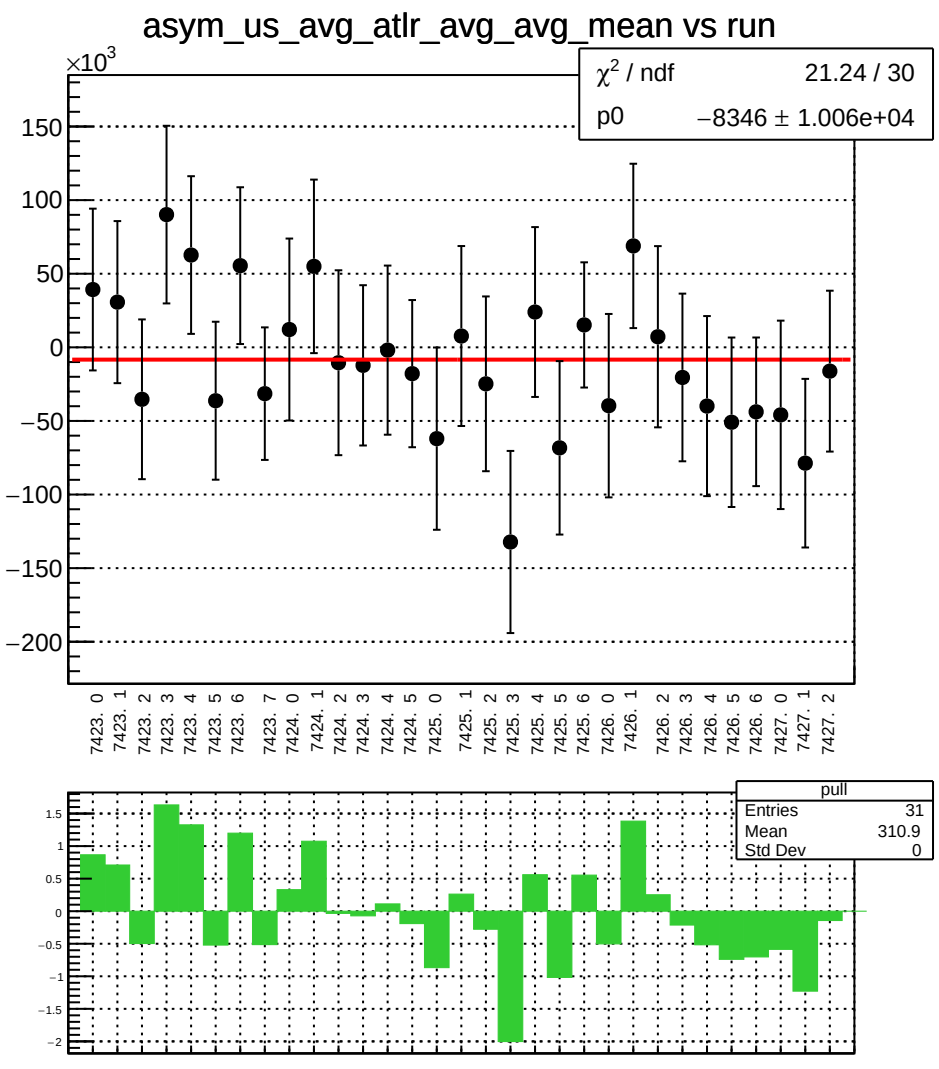

pull1D
Entries 31
Mean −0.01354
Std Dev 0.7785
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

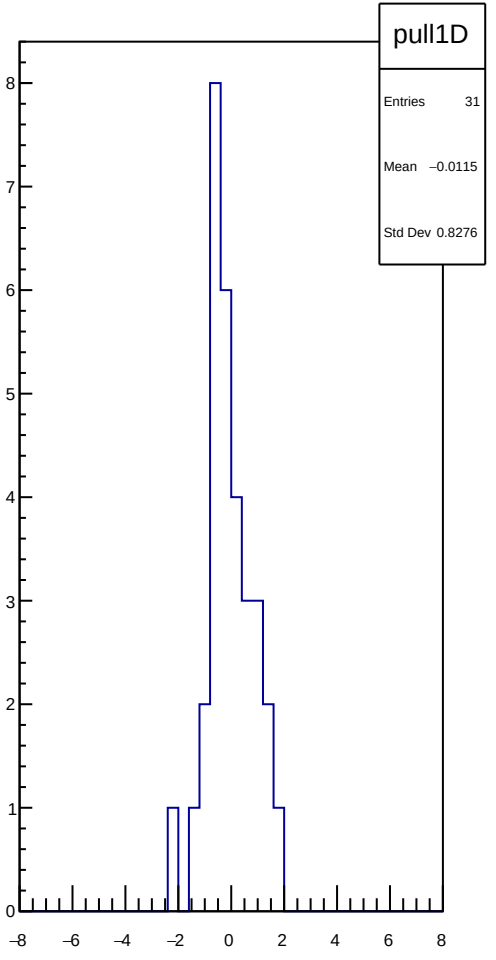

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 187.3 / 30
p0 1809 ± 2.345
1950
1900
1850
1800
1750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

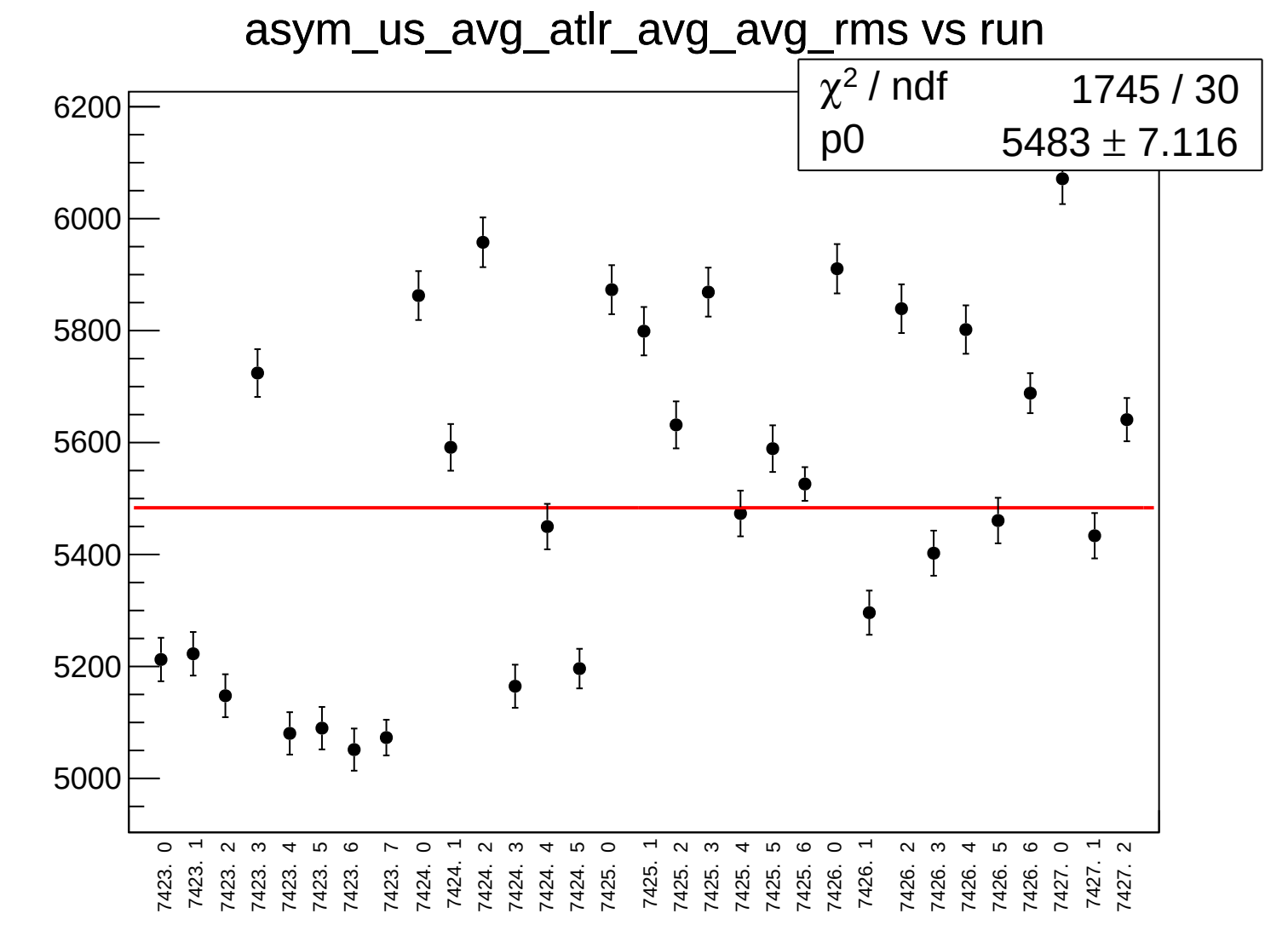

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.18 / 30
p0 5299 ± 9963
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 418.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

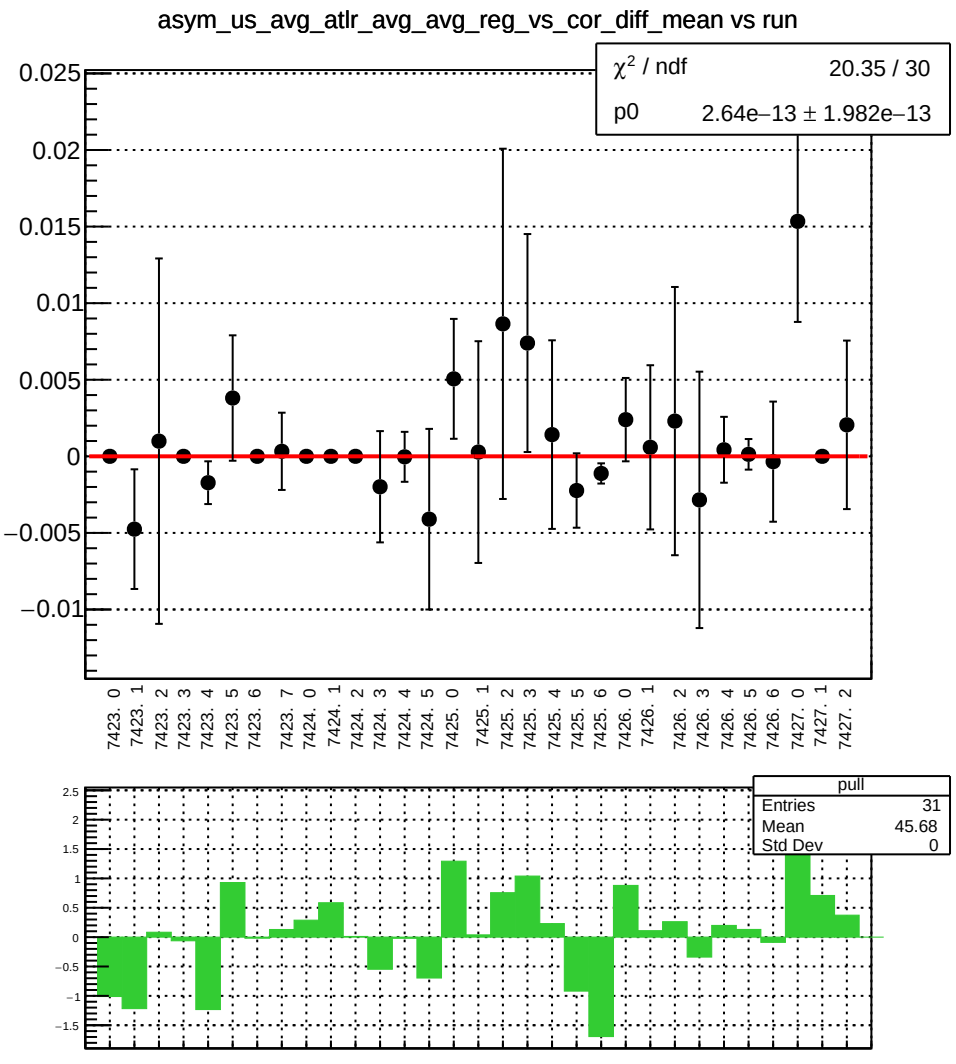

pull1D
Entries 31
Mean 0.008499
Std Dev 0.8459
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

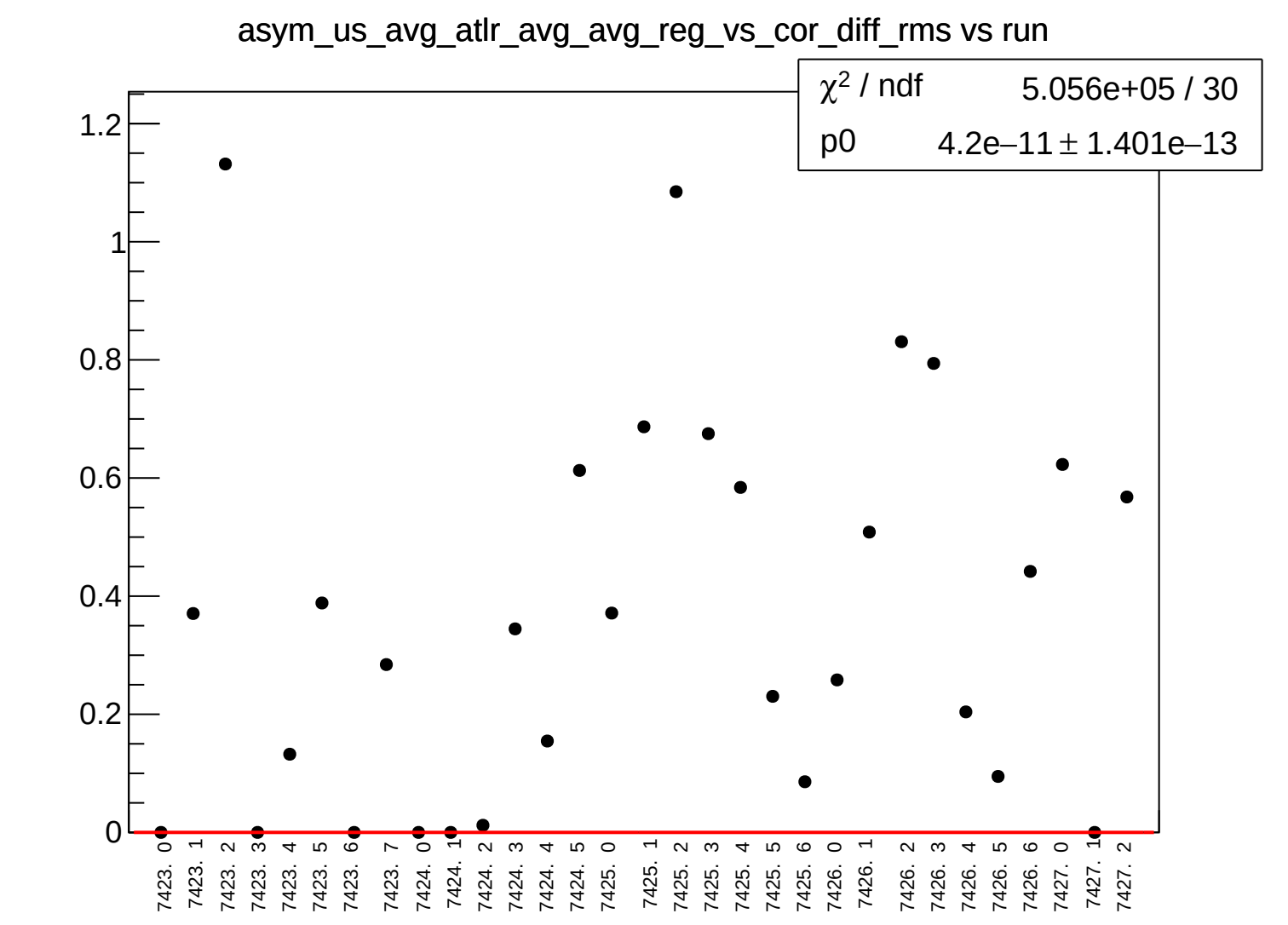

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2057 / 30
p0 5427 ± 7.045
6400
6200
6000
5800
5600
5400
5200
5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

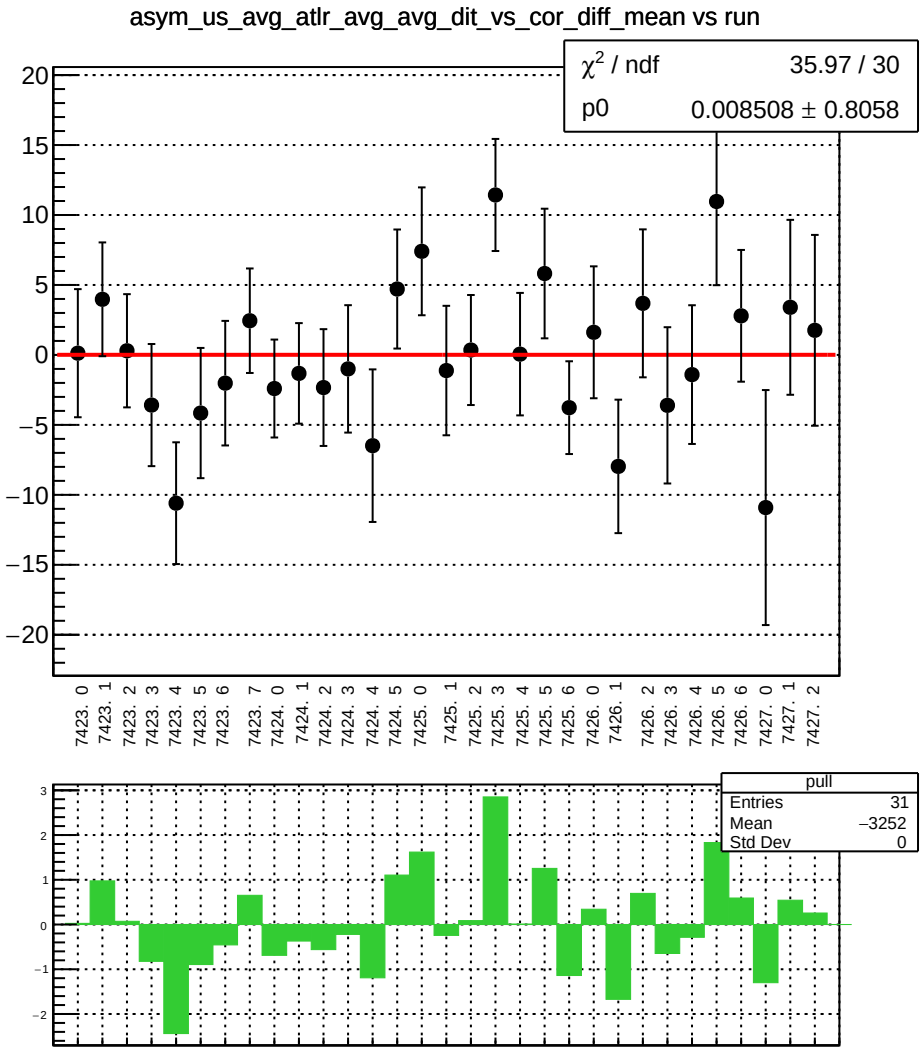

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 21.24 / 30
p0 −8346 ± 1.006e+04
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 310.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

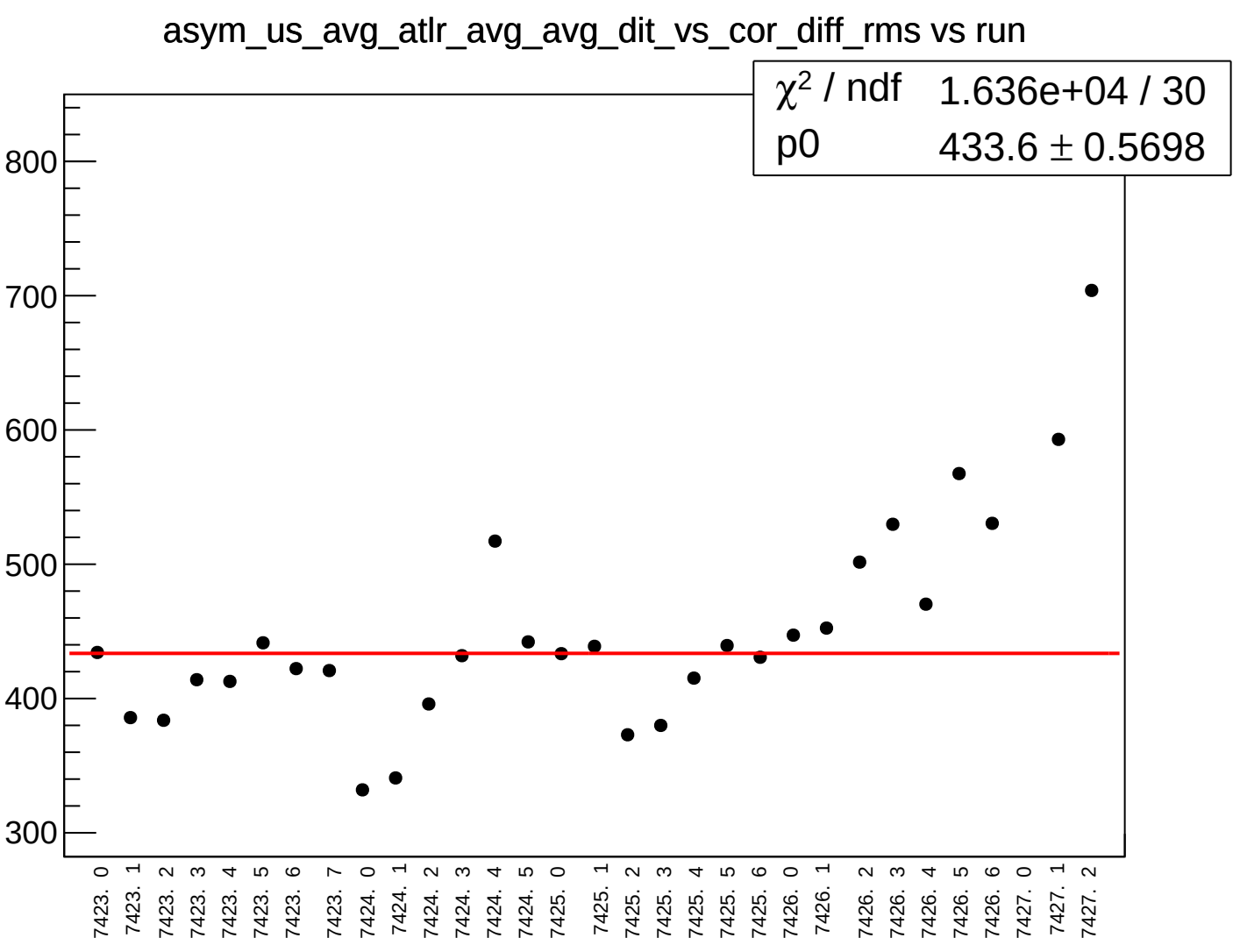

pull1D
Entries 31
Mean −0.0115
Std Dev 0.8276
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

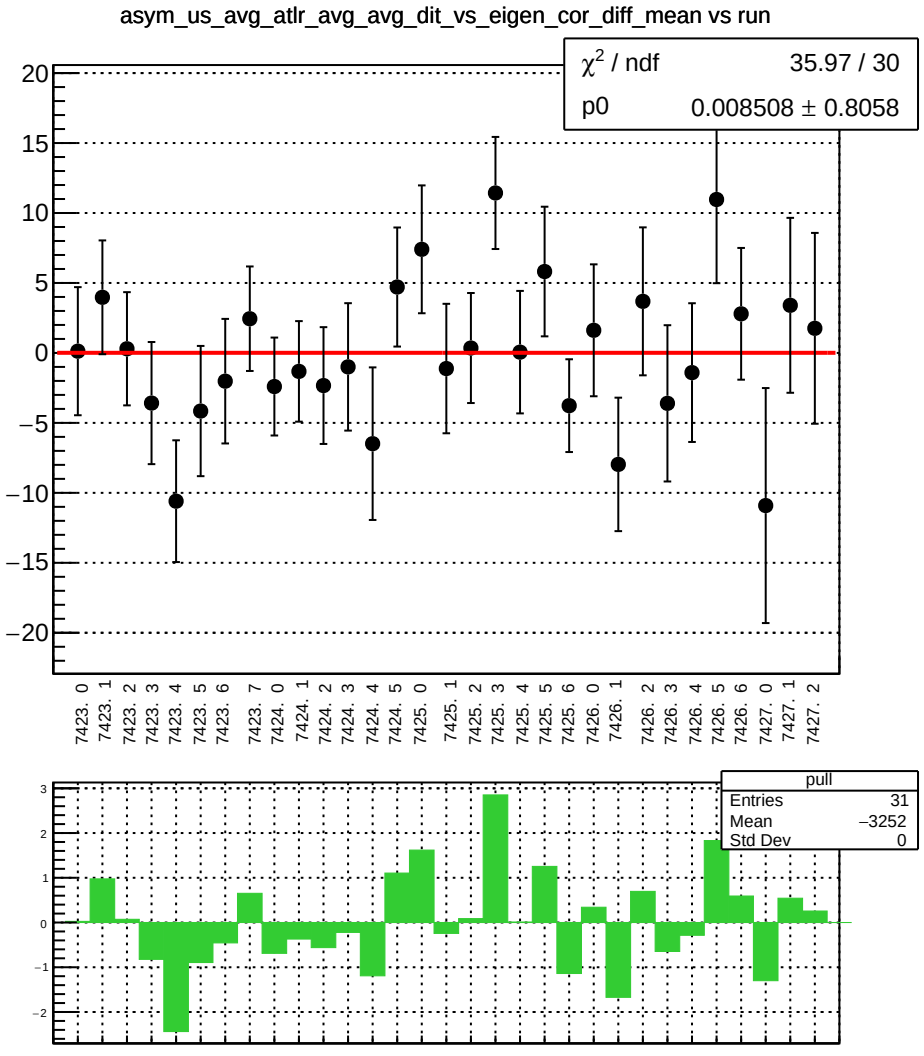

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1745 / 30
p0 5483 ± 7.116
6200
6000
5800
5600
5400
5200
5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

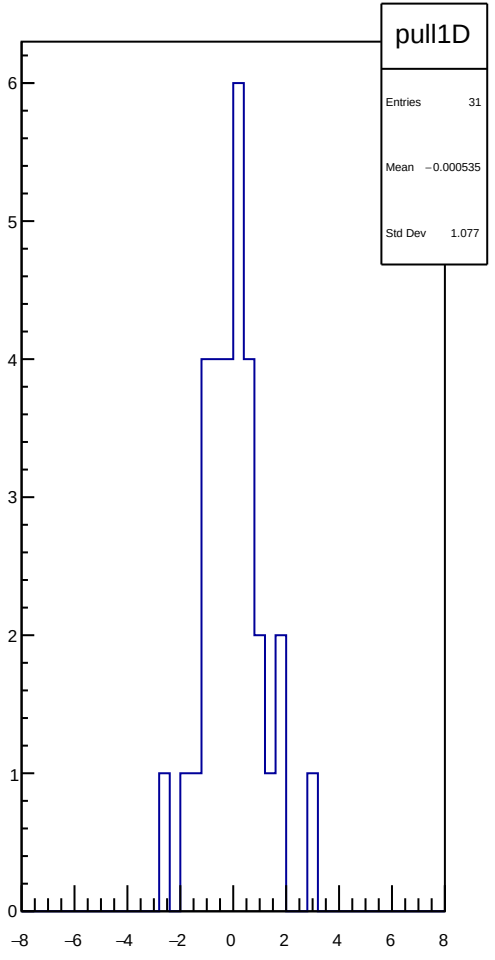

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.35 / 30
p0 2.64e−13 ± 1.982e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 45.68
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.08205
Std Dev 0.8061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

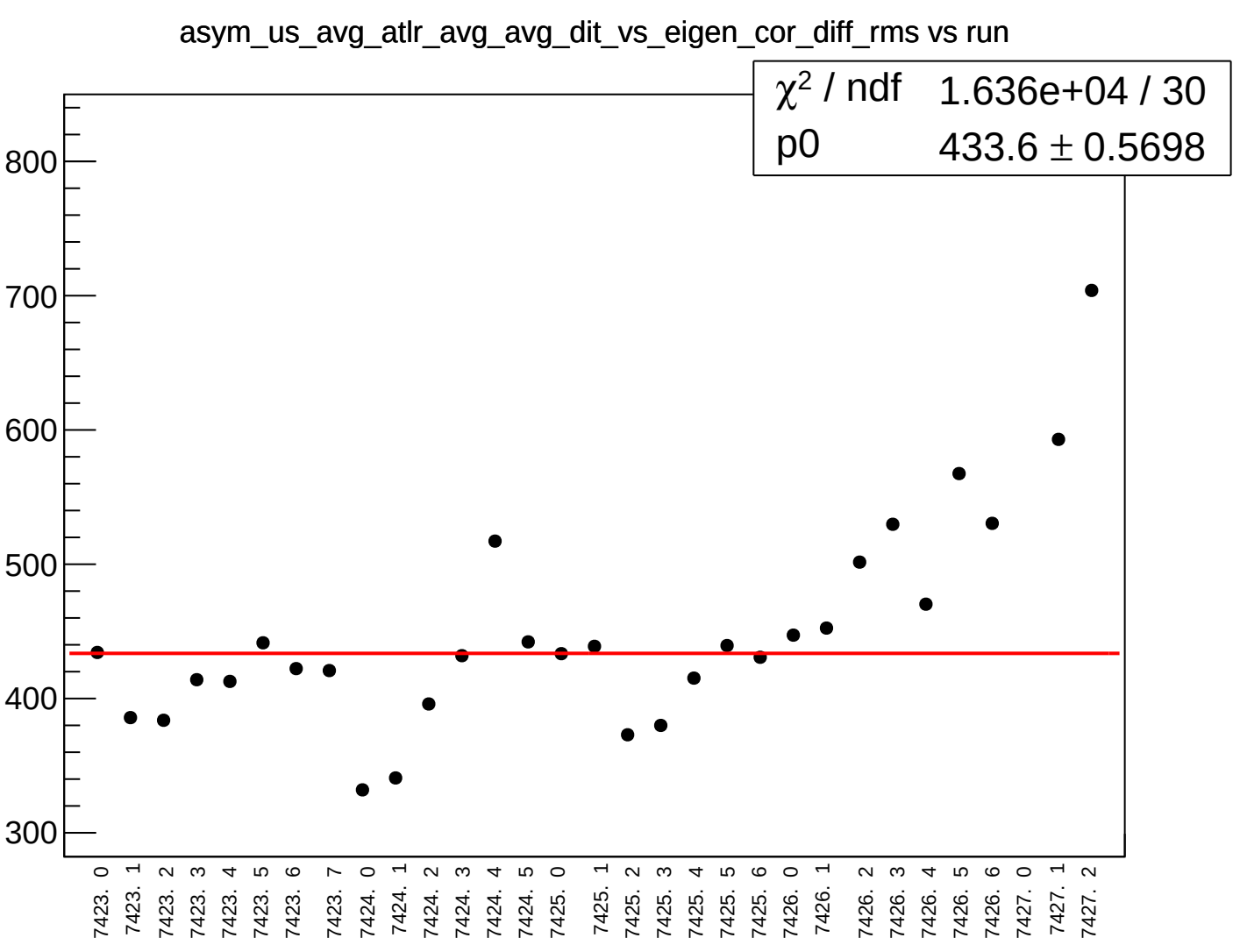

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.056e+05 / 30
p0 4.2e−11 ± 1.401e−13
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

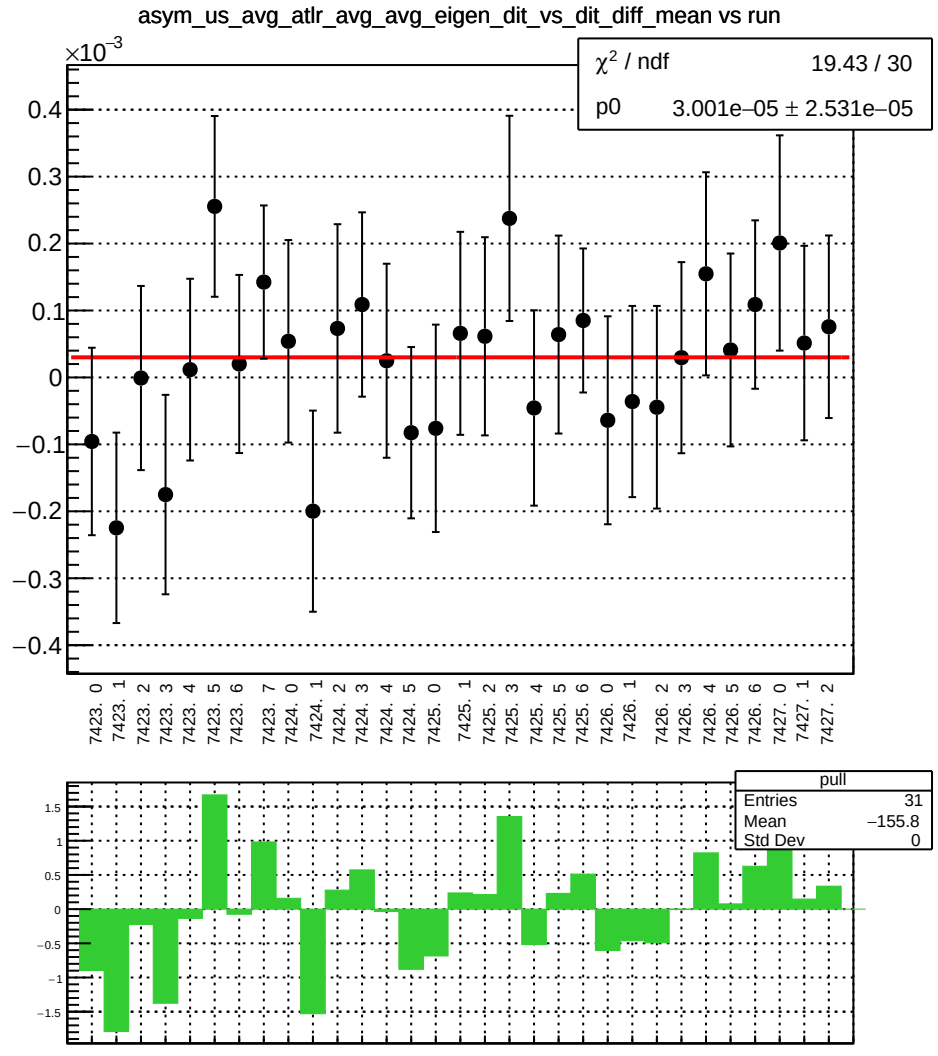

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.97 / 30
p0 0.008508 ± 0.8058
pull
Entries 31
Mean −3252
Std Dev 0
pull1D
Entries 31
Mean −0.000535
Std Dev 1.077

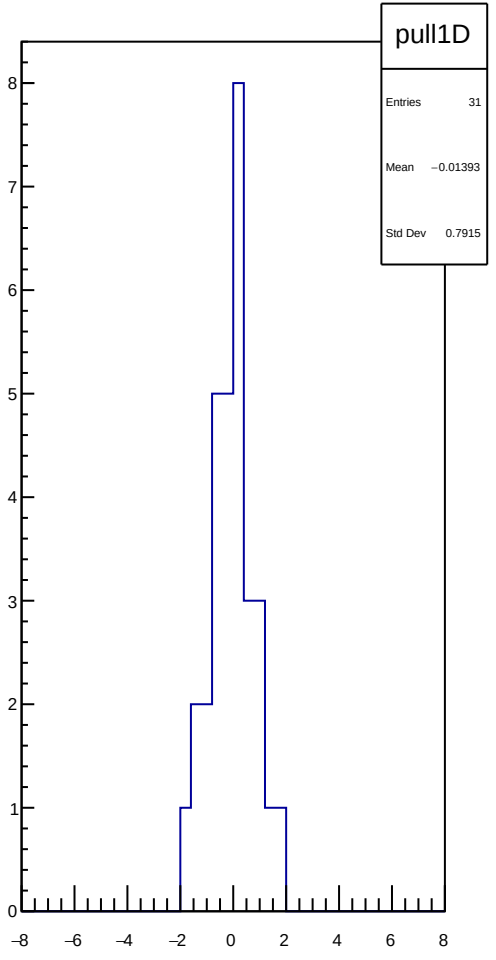

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.636e+04 / 30
p0 433.6 ± 0.5698
800
700
600
500
400
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

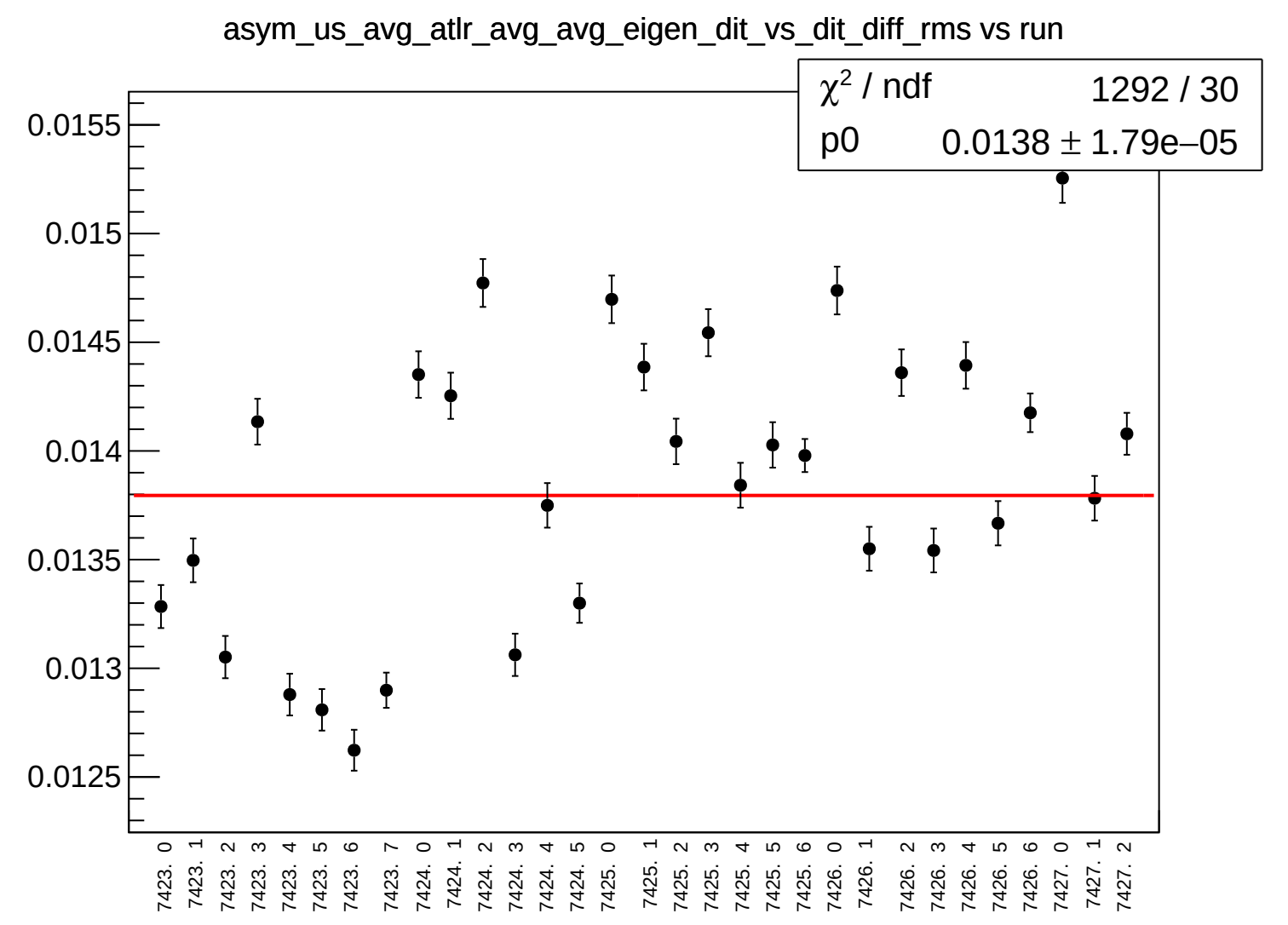

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.97 / 30
p0 0.008508 ± 0.8058
20
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −3252
Std Dev 0
3
2
1
0
−1
−2

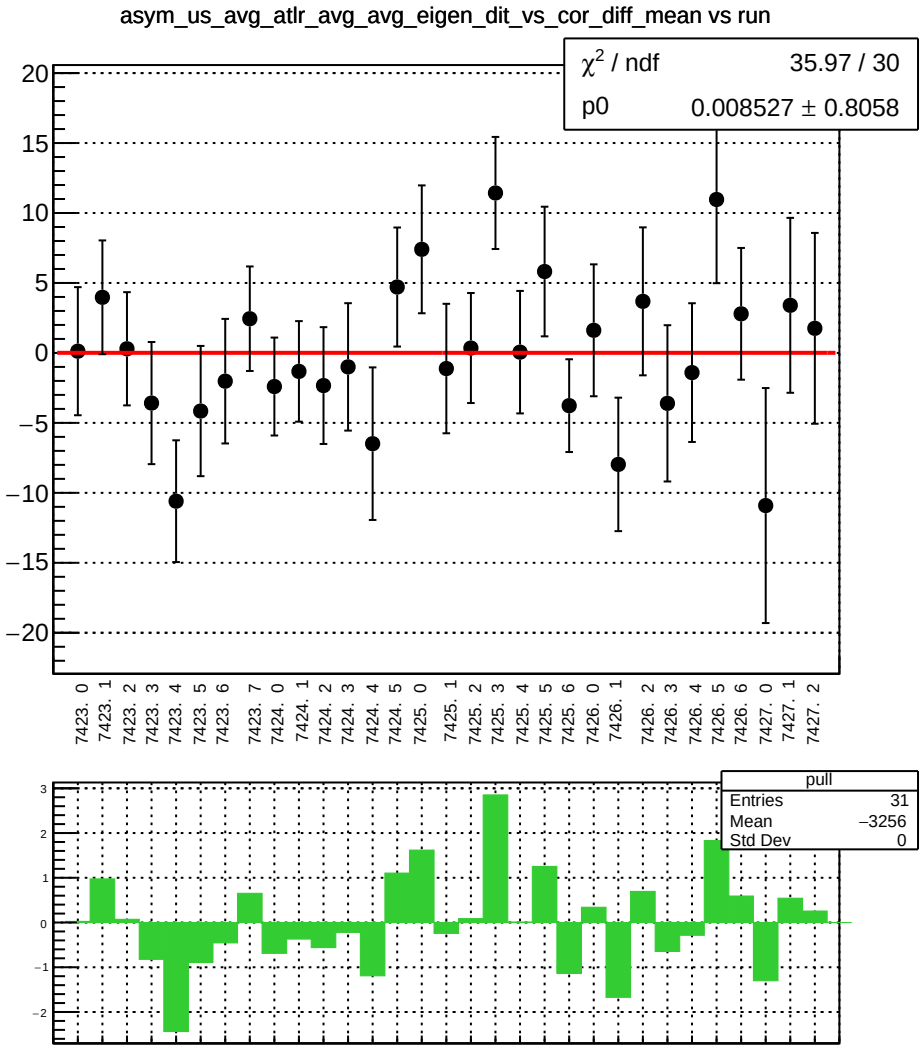

pull1D
Entries 31
Mean −0.000535
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

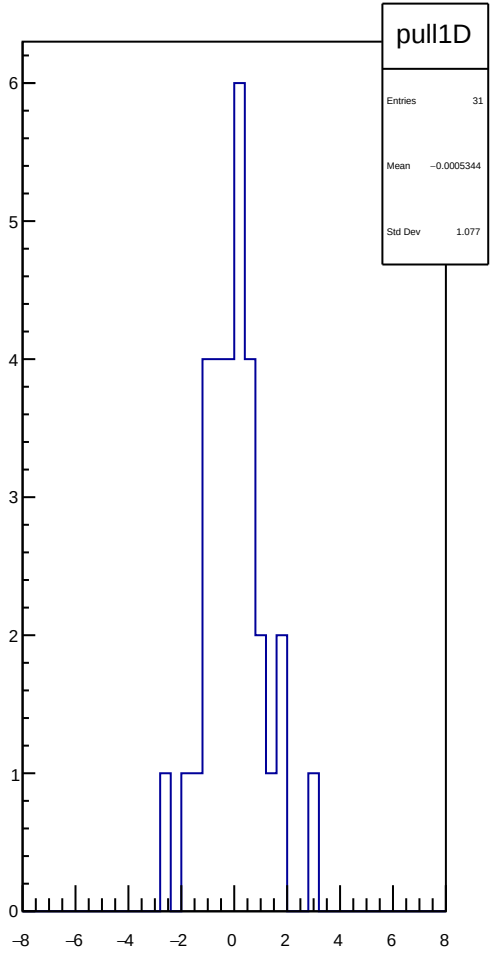

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.636e+04 / 30
p0 433.6 ± 0.5698
800
700
600
500
400
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

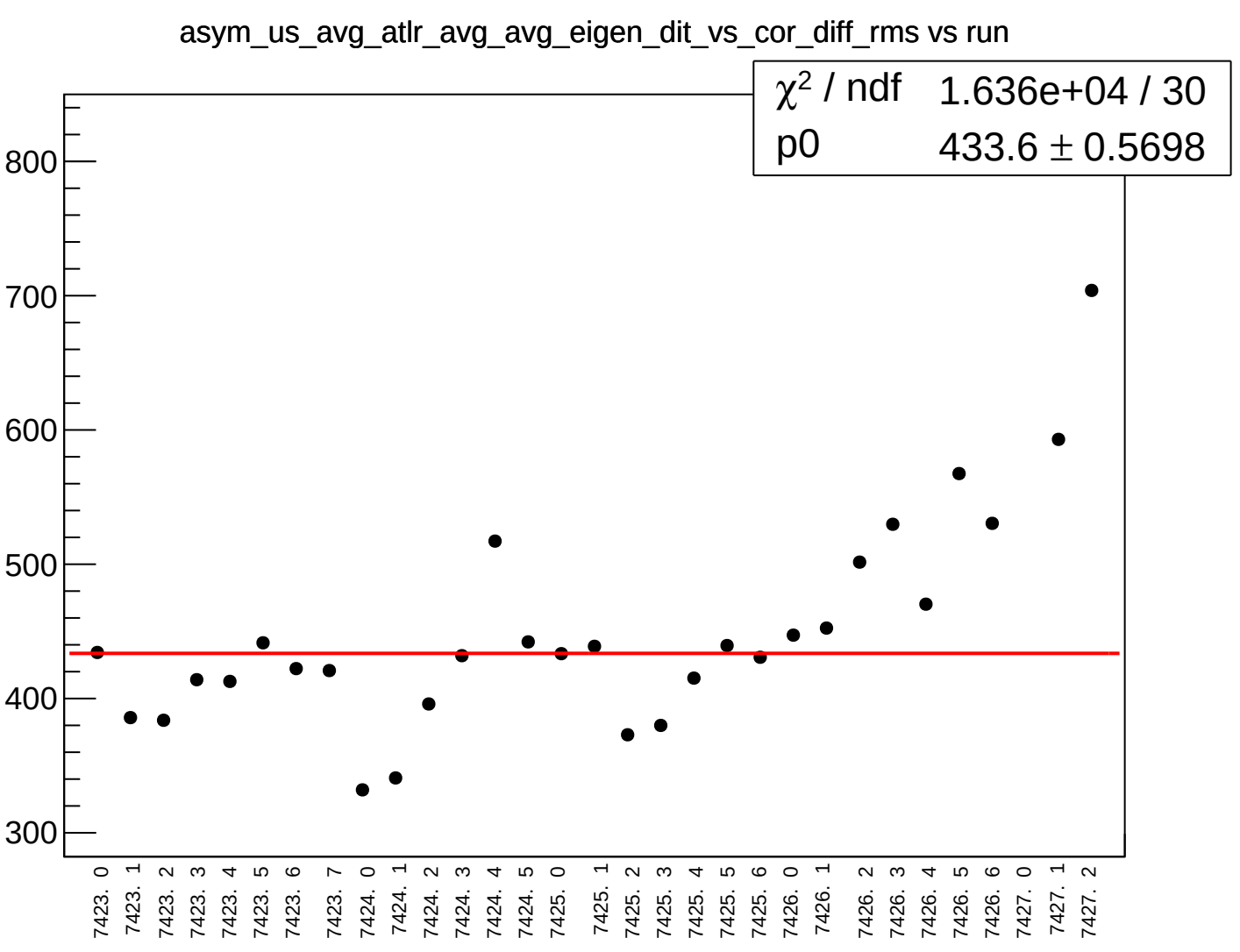

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 19.43 / 30
p0 3.001e−05 ± 2.531e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −155.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

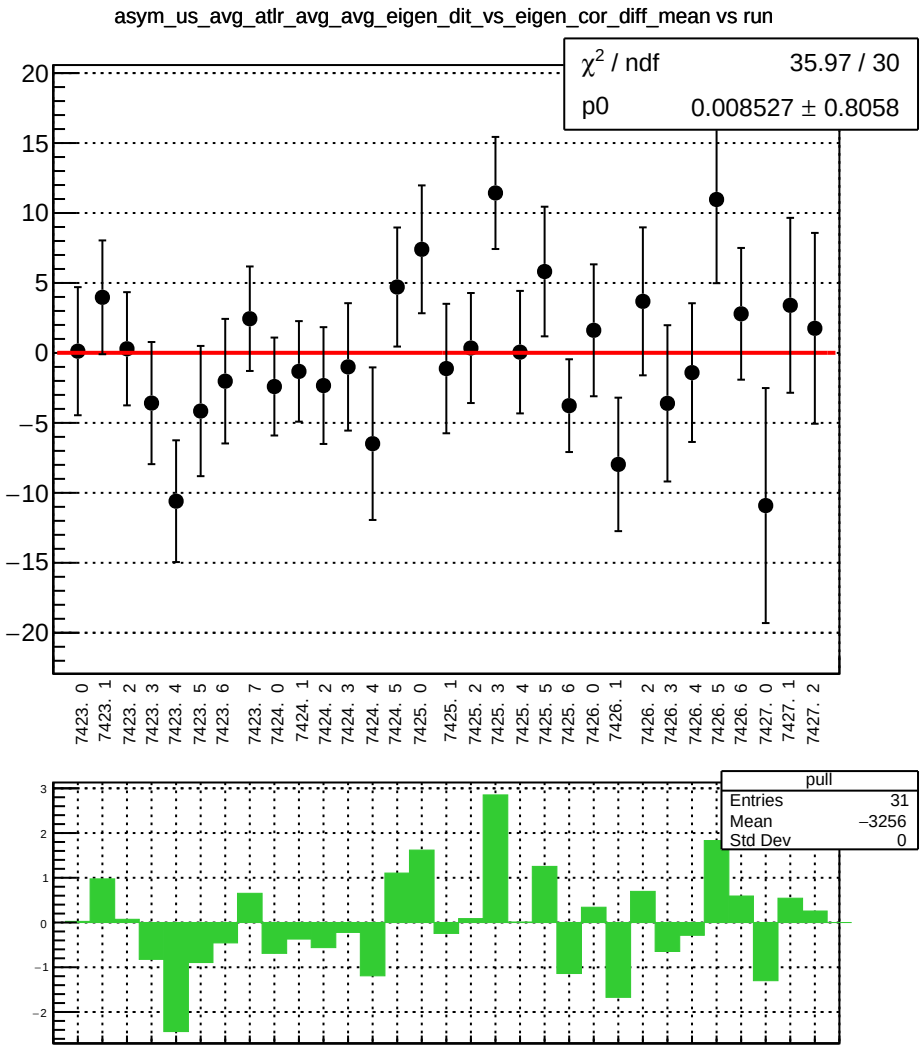

pull1D
Entries 31
Mean −0.01393
Std Dev 0.7915
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

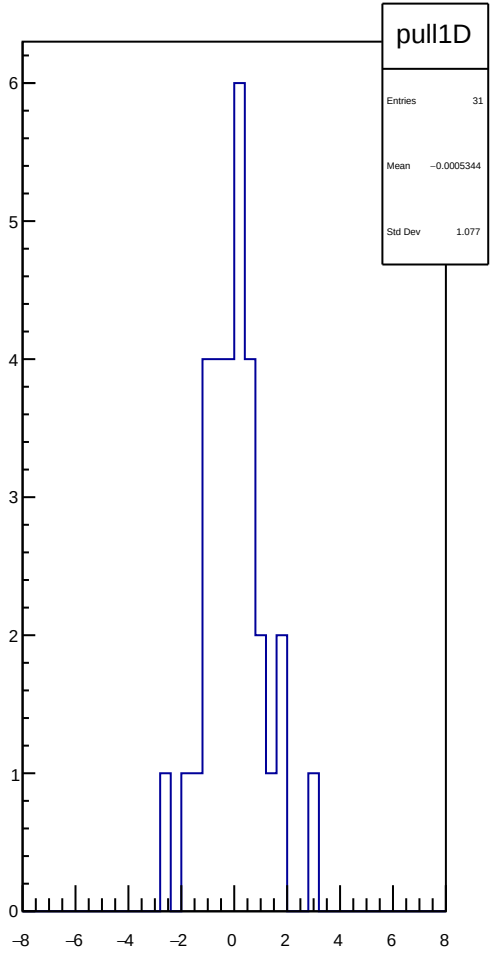

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1292 / 30
p0 0.0138 ± 1.79e−05
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

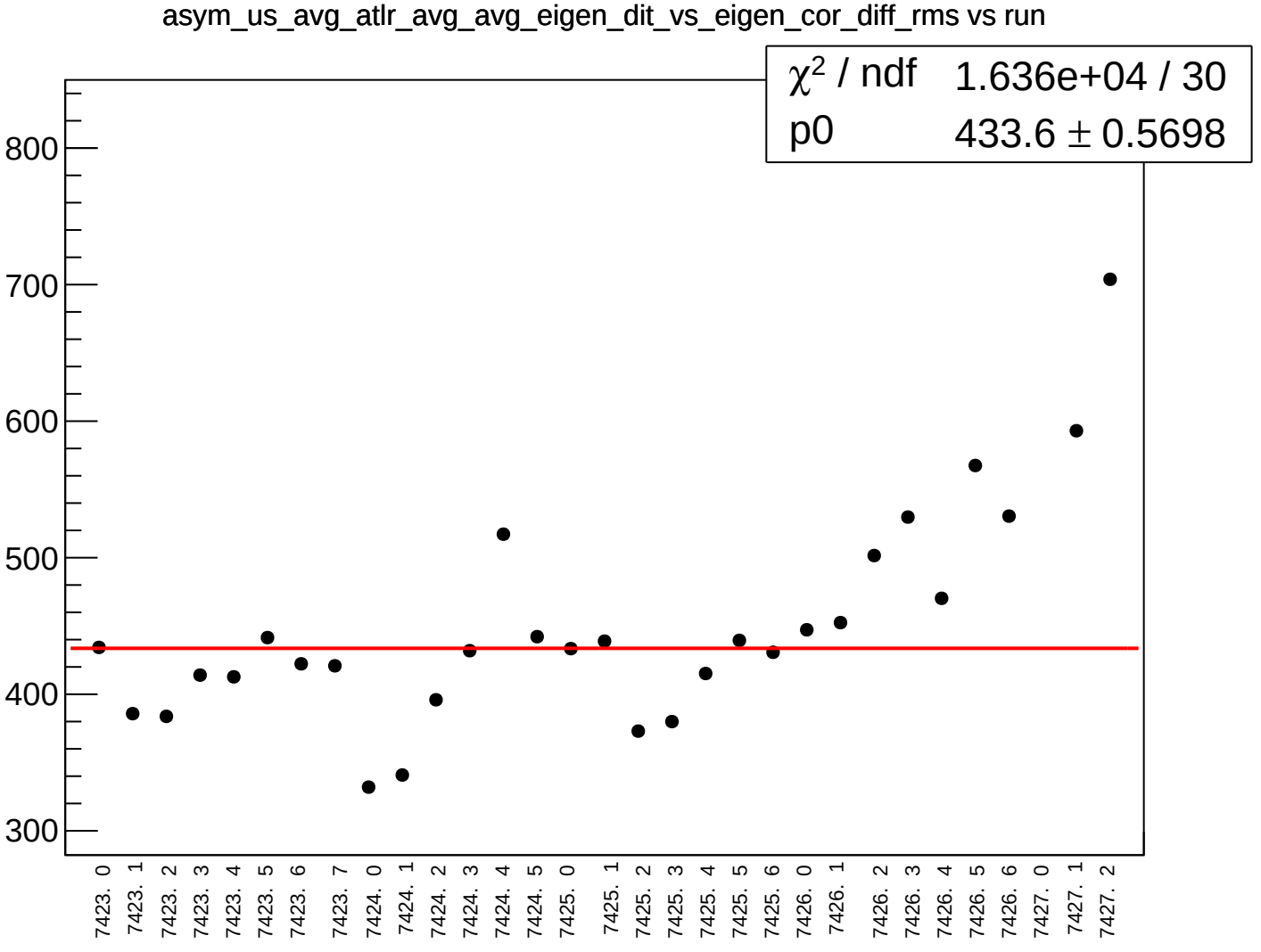

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.97 / 30
p0 0.008527 ± 0.8058
20
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −3256
Std Dev 0
3
2
1
0
−1
−2

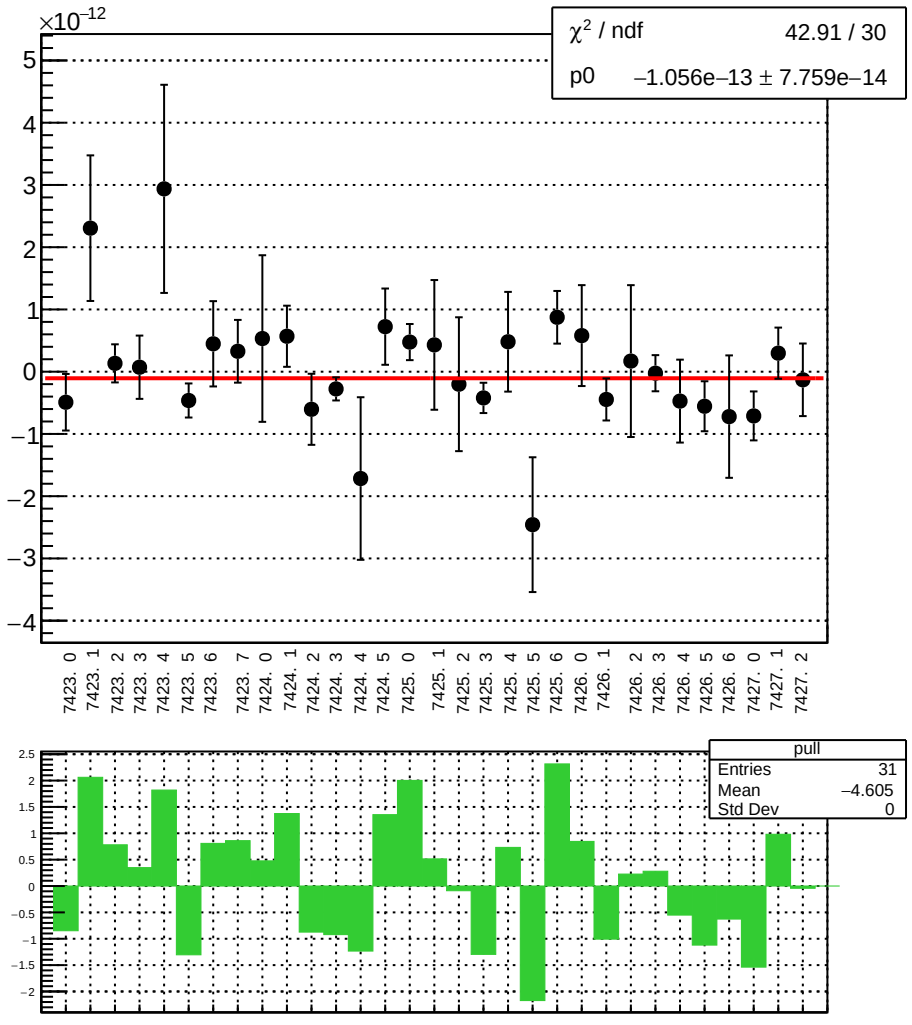

pull1D
Entries 31
Mean −0.0005344
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

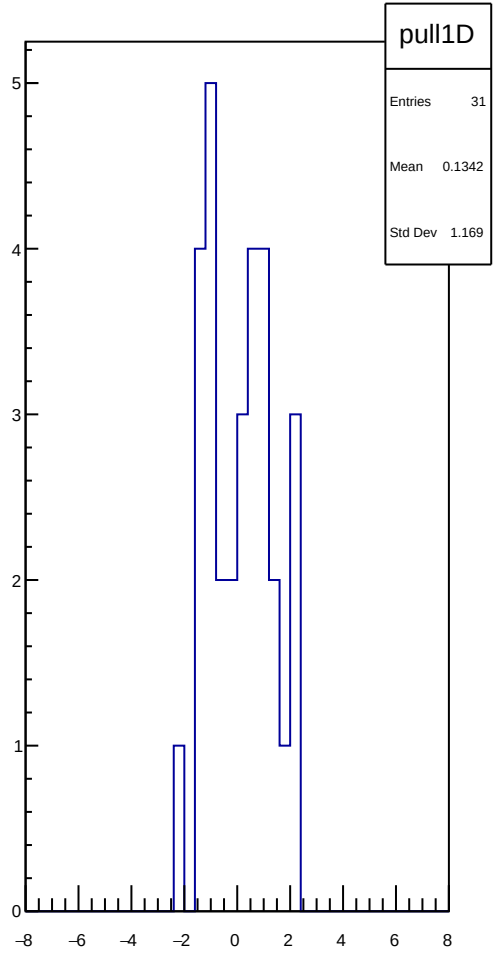

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.636e+04 / 30
p0 433.6 ± 0.5698
800
700
600
500
400
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

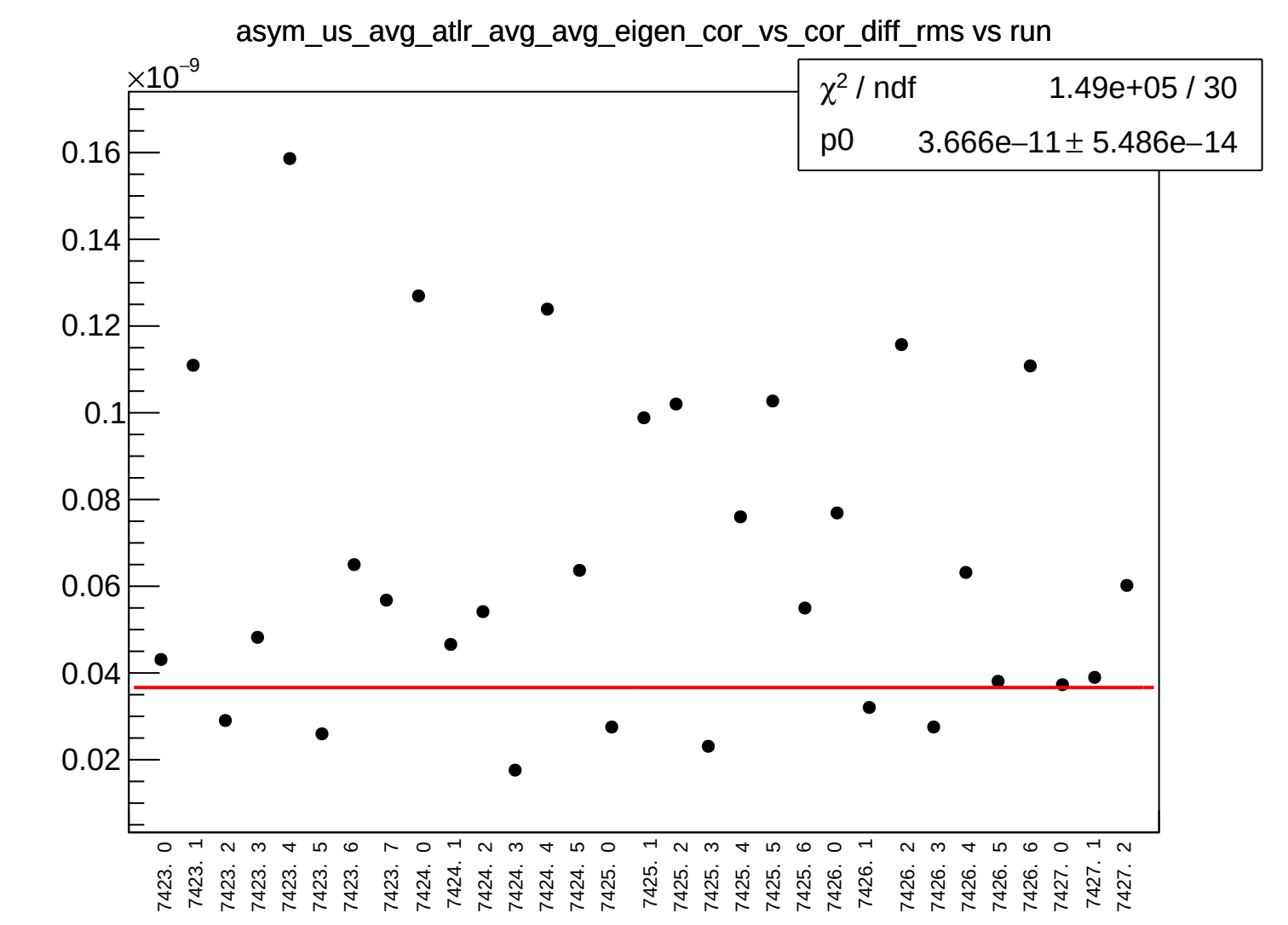

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.97 / 30
p0 0.008527 ± 0.8058
20
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −3256
Std Dev 0
3
2
1
0
−1
−2

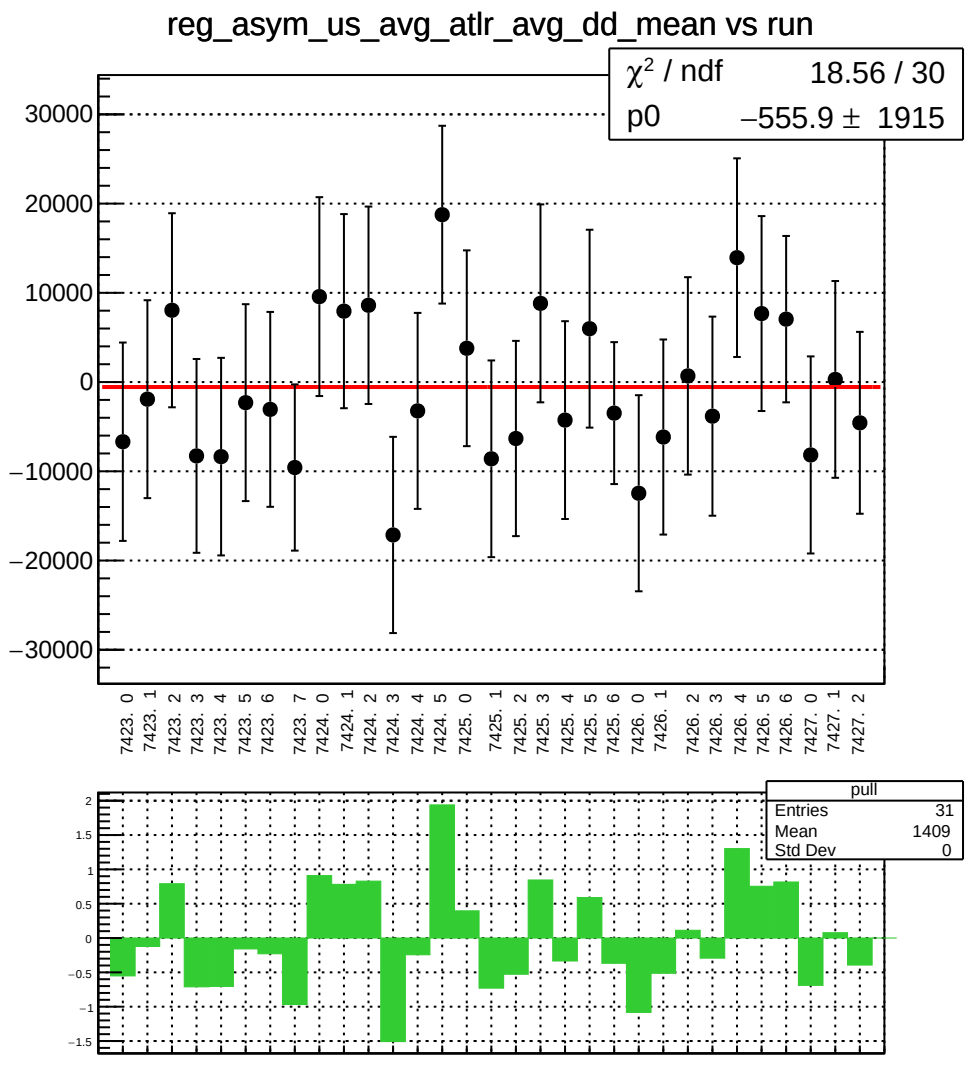

pull1D
Entries 31
Mean −0.0005344
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

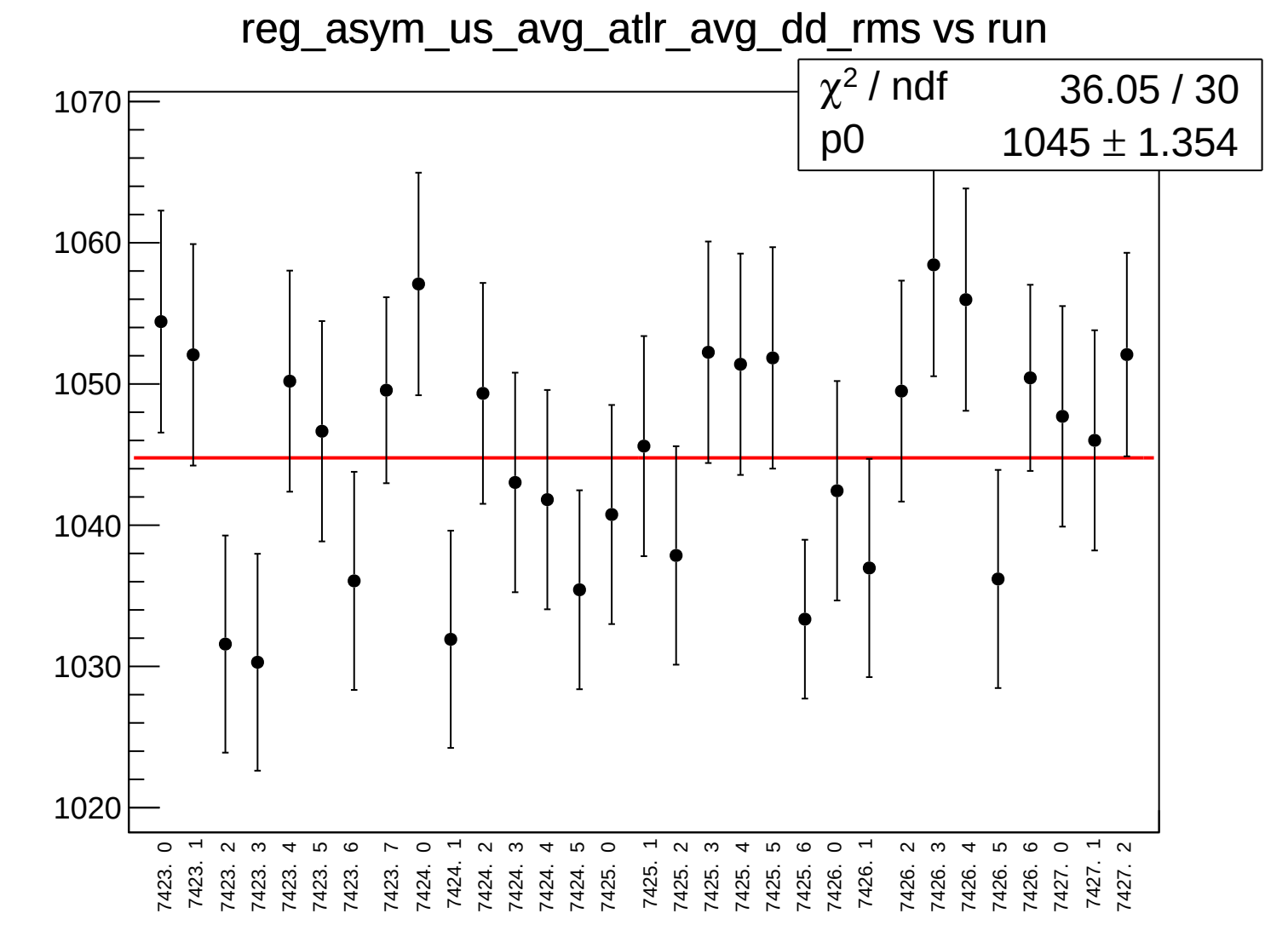

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.636e+04 / 30
p0 433.6 ± 0.5698
800
700
600
500
400
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

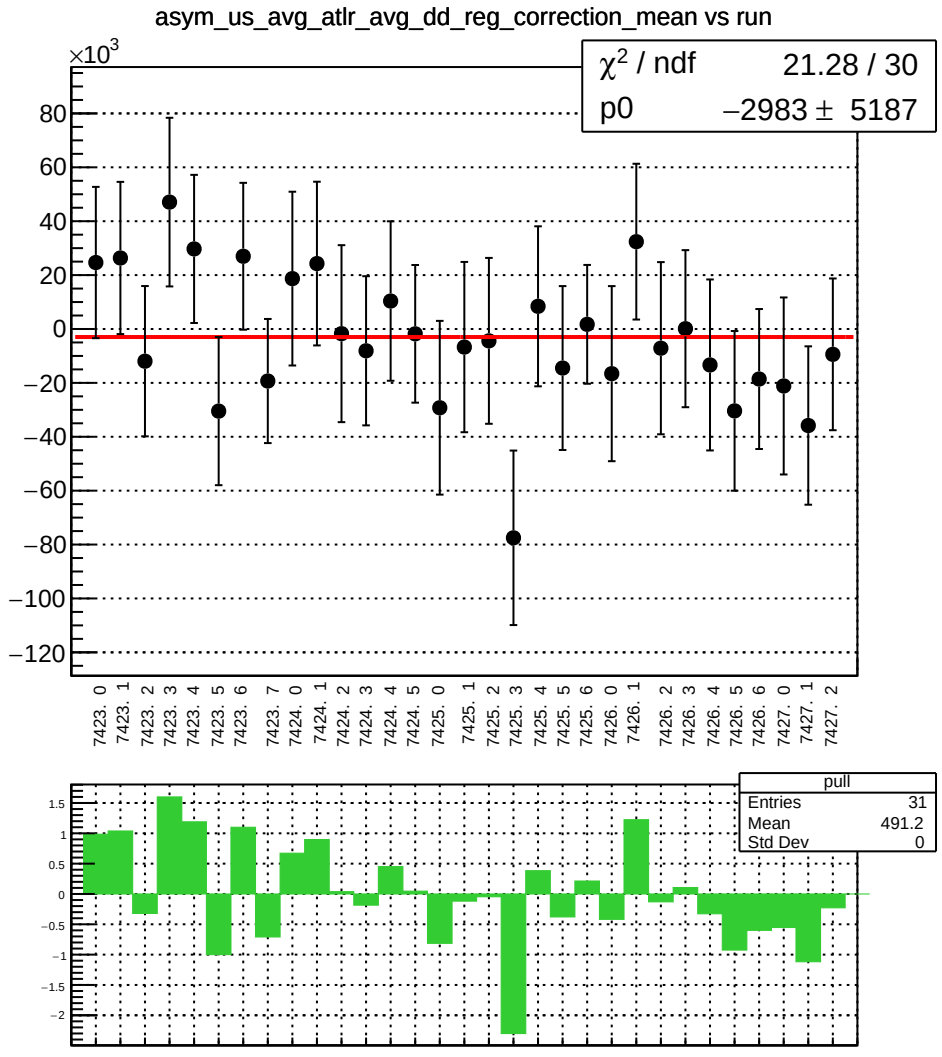

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.91 / 30
p0 −1.056e−13 ± 7.759e−14
pull
Entries 31
Mean −4.605
Std Dev 0

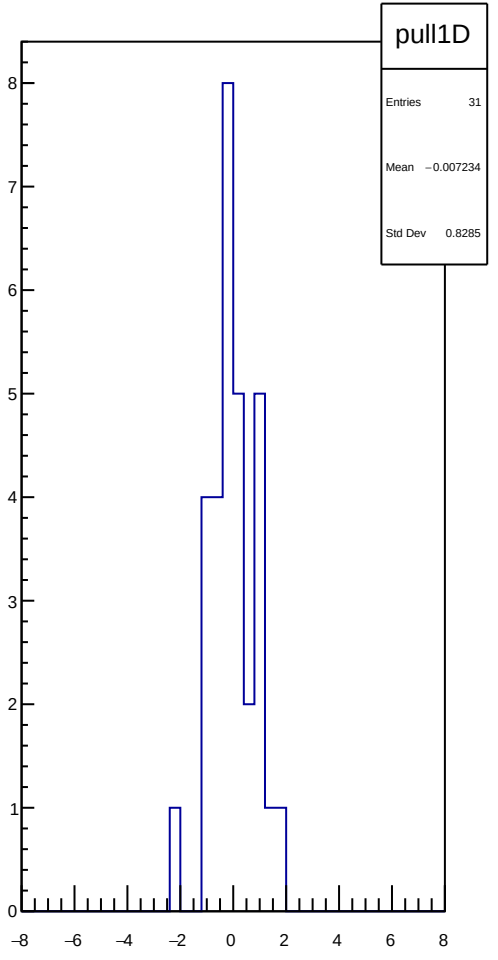

pull1D
Entries 31
Mean 0.1342
Std Dev 1.169

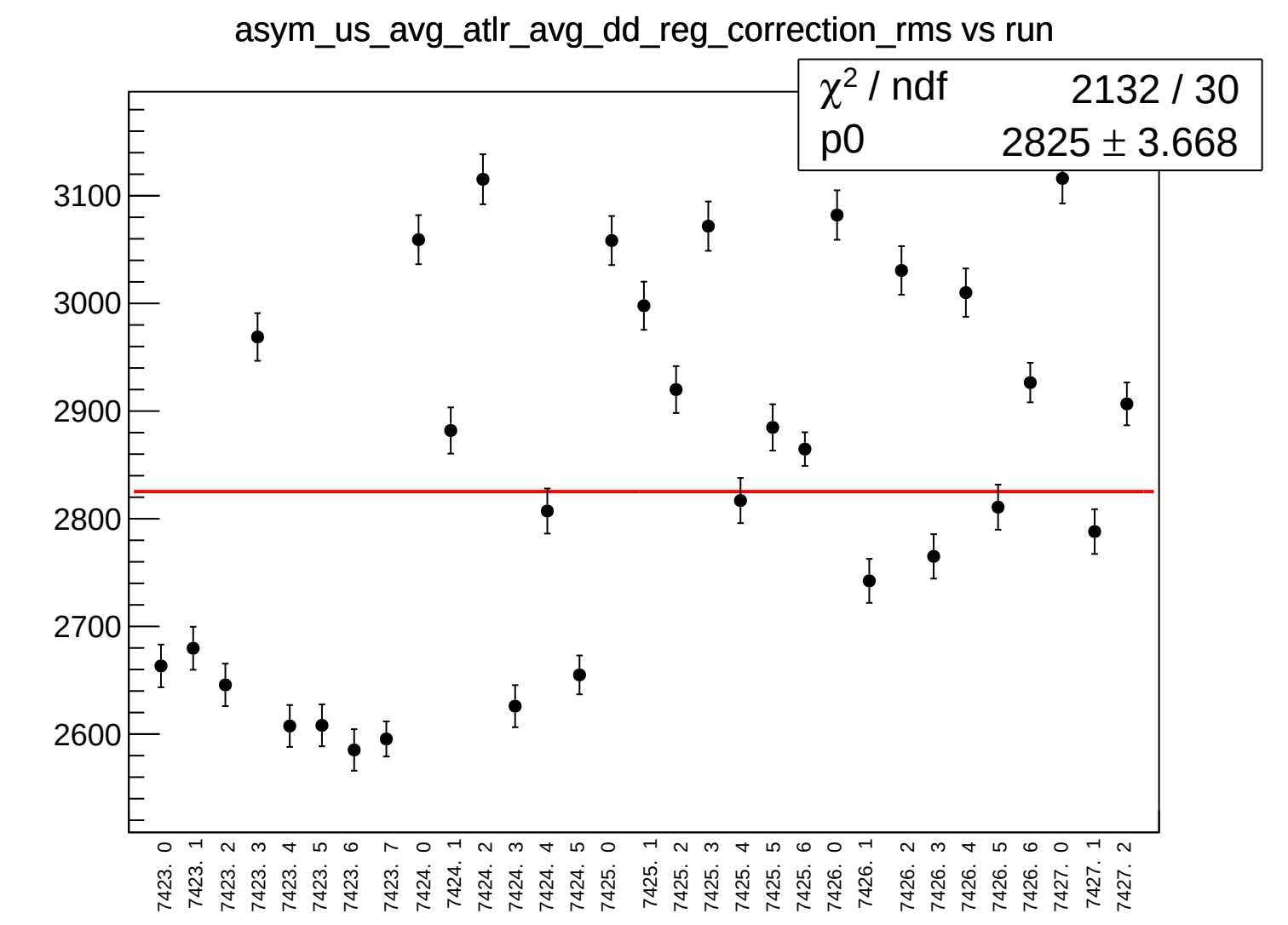

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.49e+05 / 30
p0 3.666e−11 ± 5.486e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

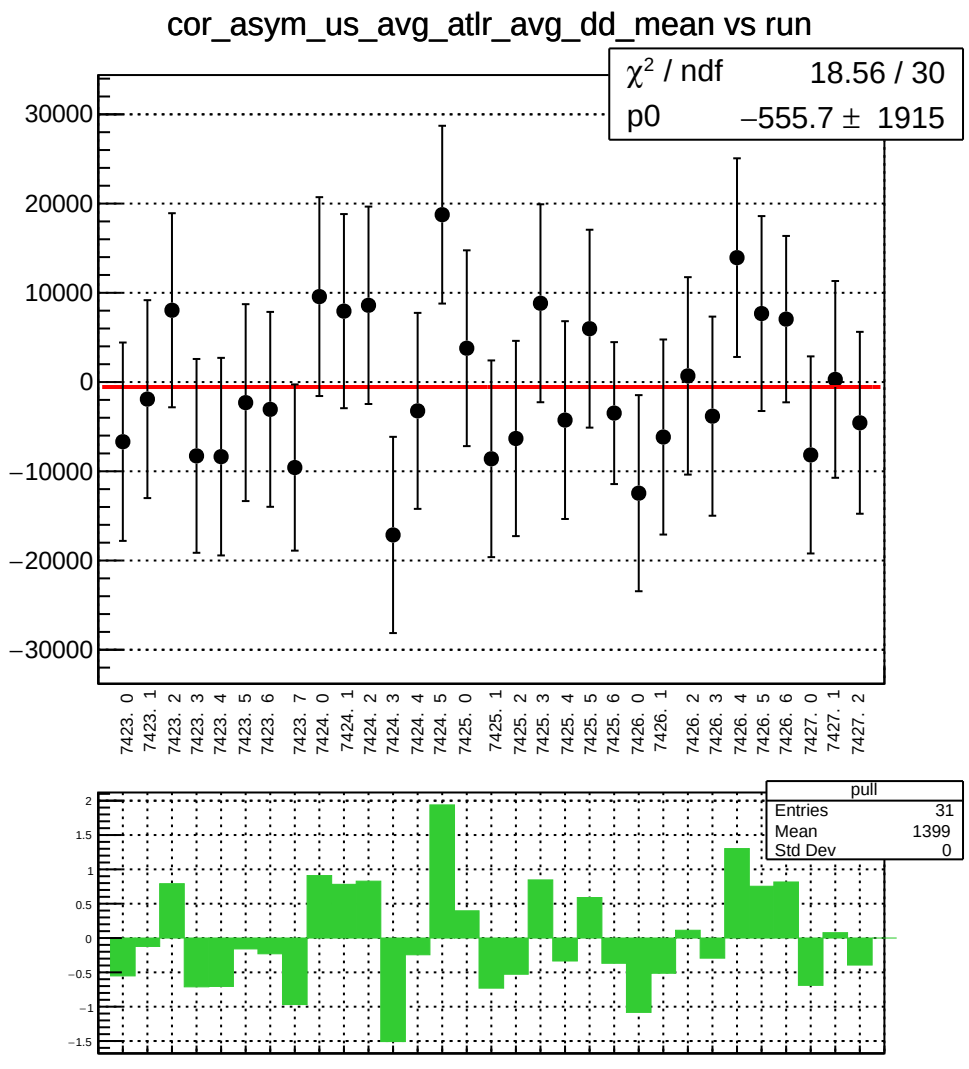

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 18.56 / 30
p0 −555.9 ± 1915
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1409
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.0004831
Std Dev 0.7737
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

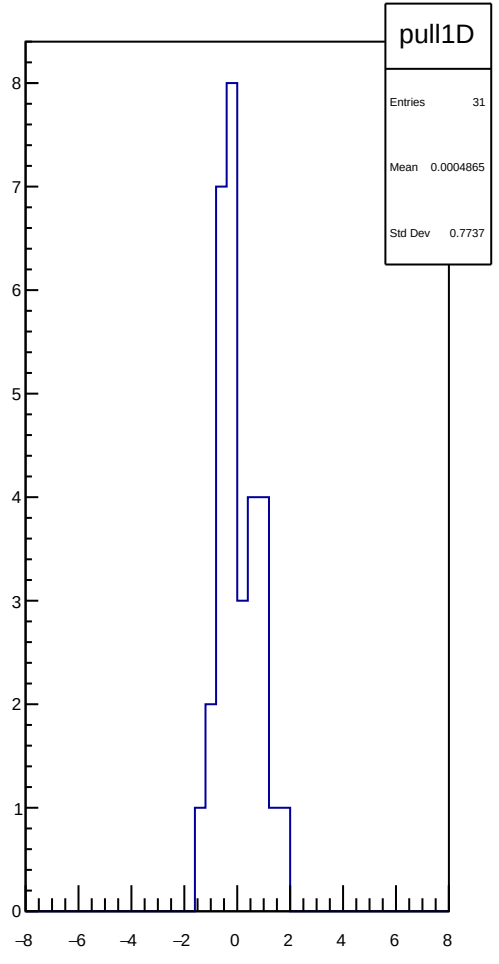

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 36.05 / 30
p0 1045 ± 1.354
1070
1060
1050
1040
1030
1020
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

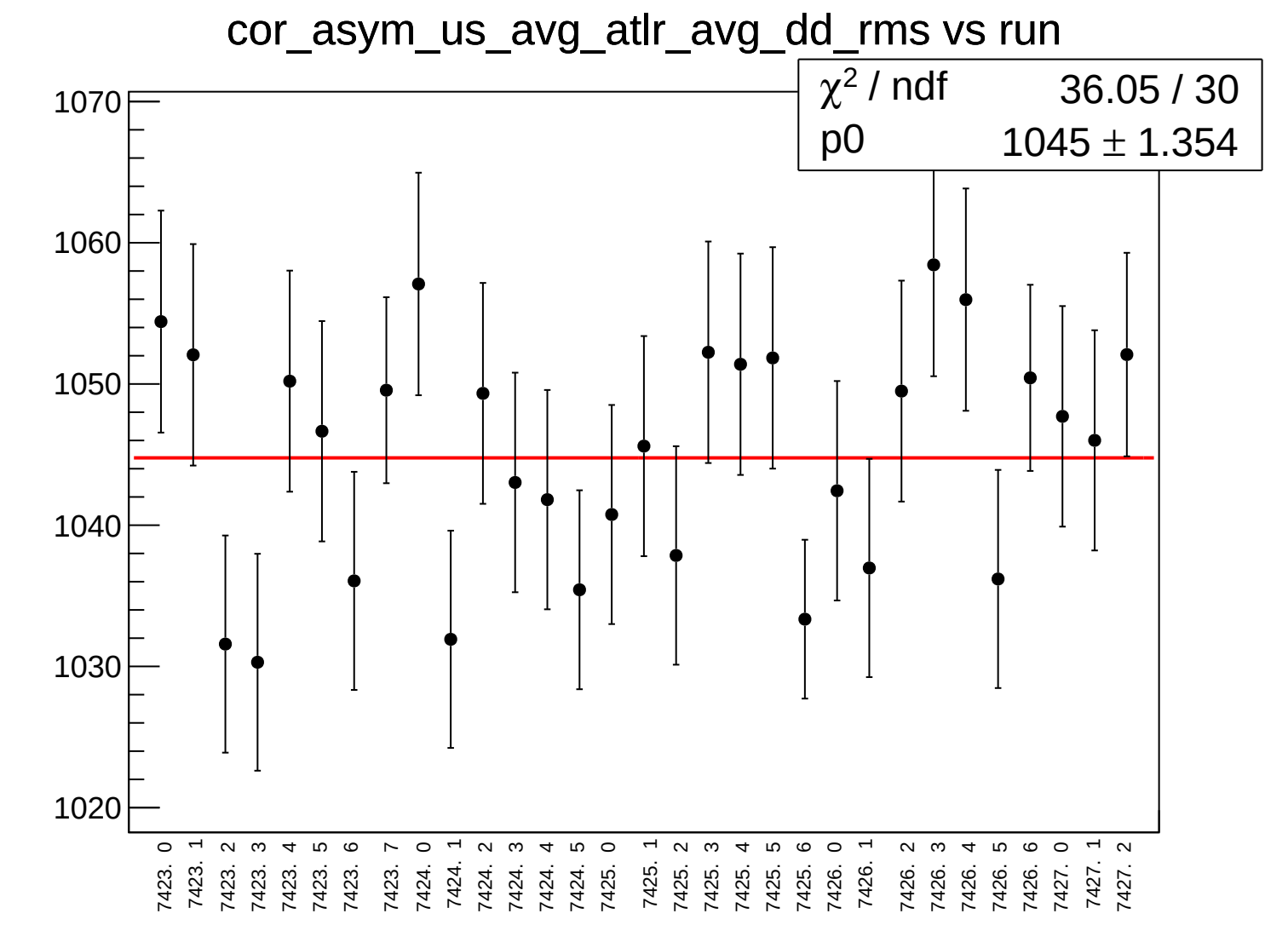

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 21.28 / 30
p0 −2983 ± 5187
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 491.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

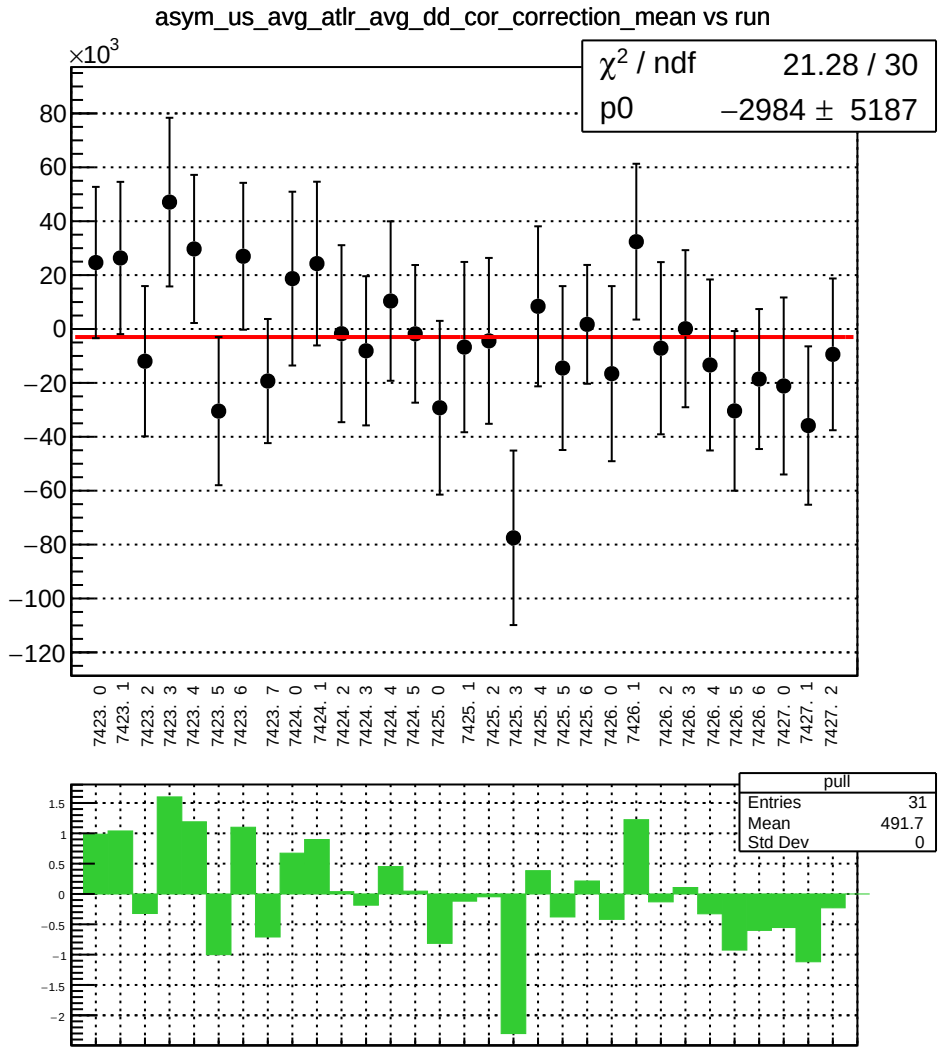

pull1D
Entries 31
Mean −0.007234
Std Dev 0.8285
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

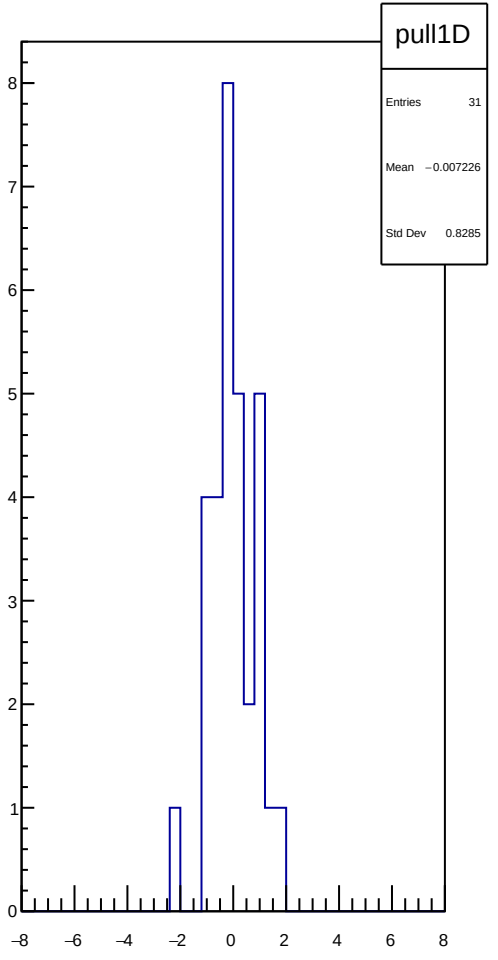

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 2132 / 30
p0 2825 ± 3.668
3100
3000
2900
2800
2700
2600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

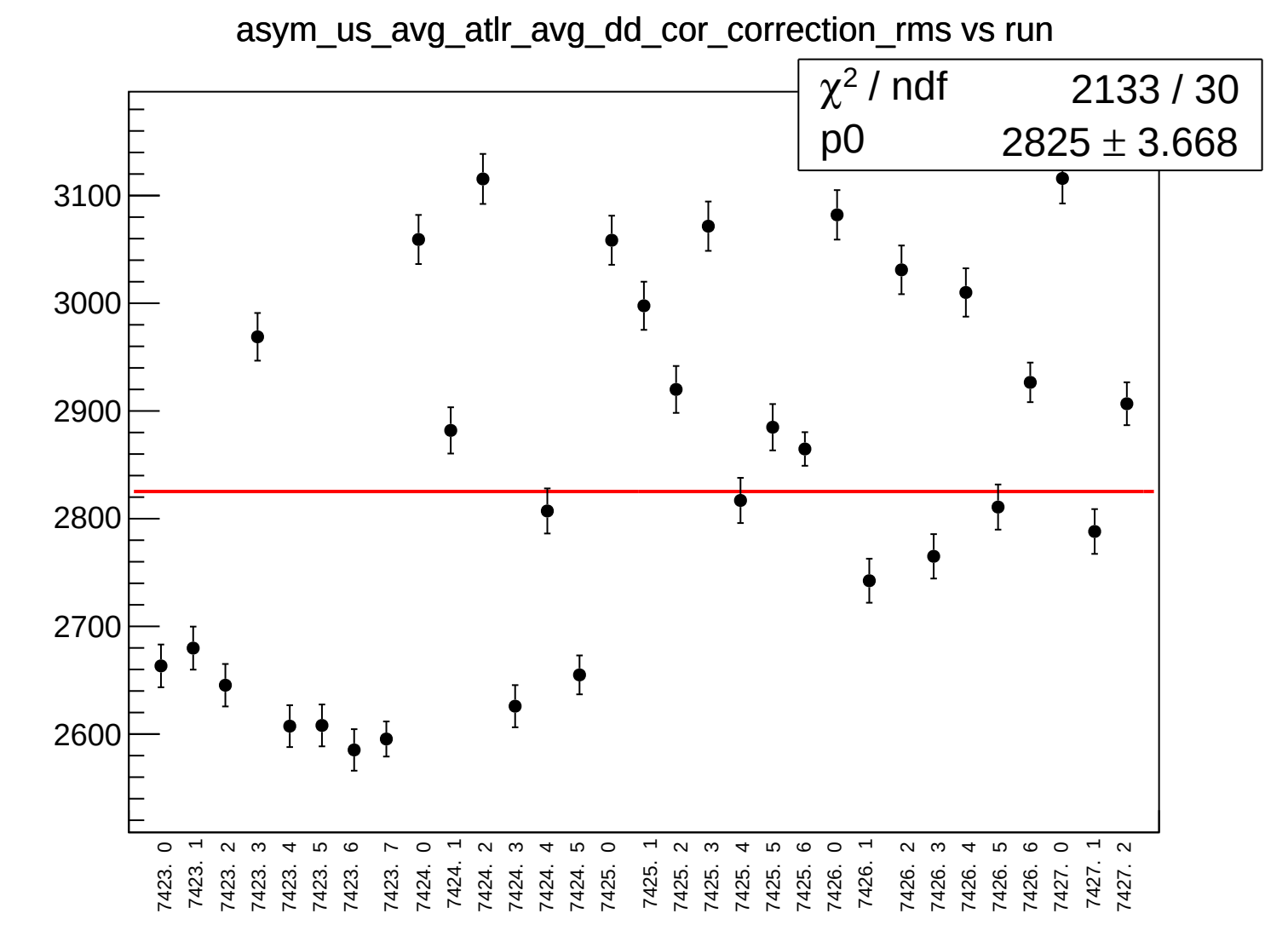

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 18.56 / 30
p0 −555.7 ± 1915
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1399
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

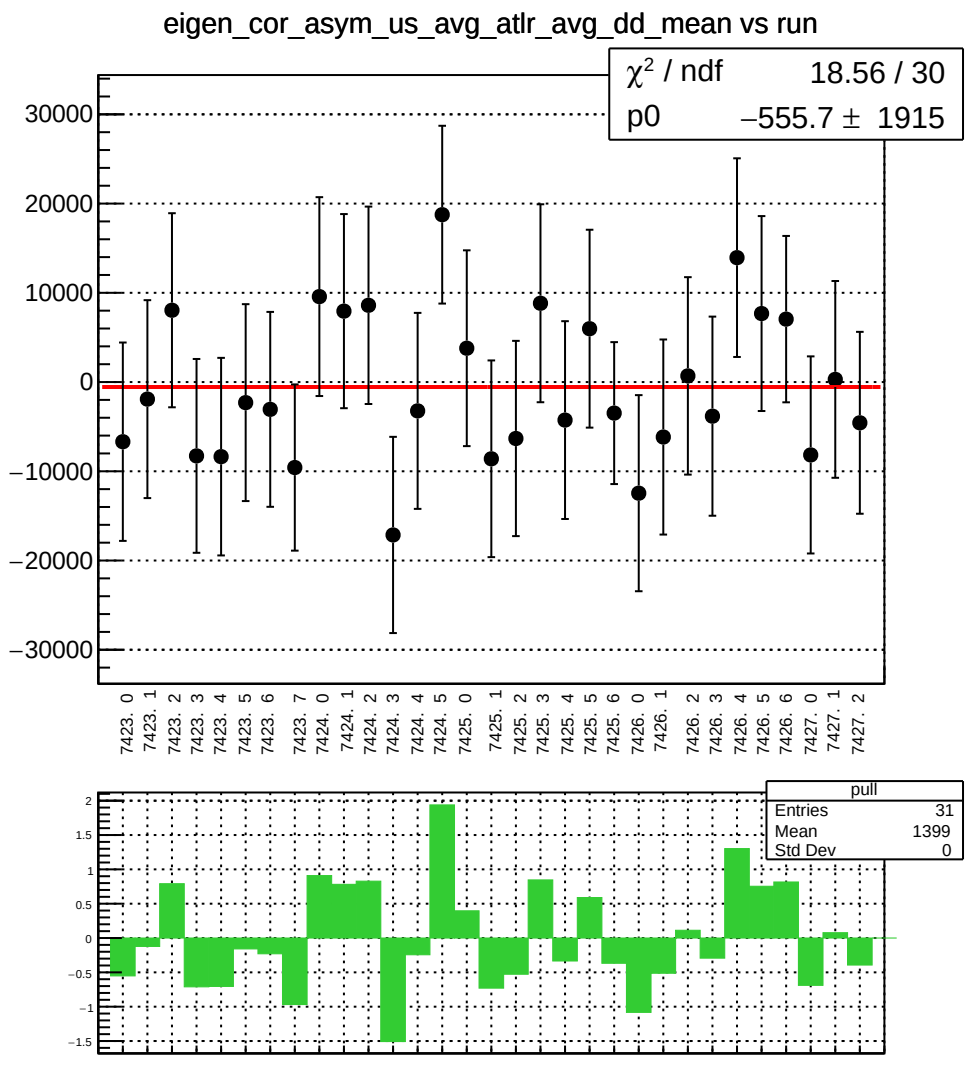

pull1D
Entries 31
Mean 0.0004865
Std Dev 0.7737
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

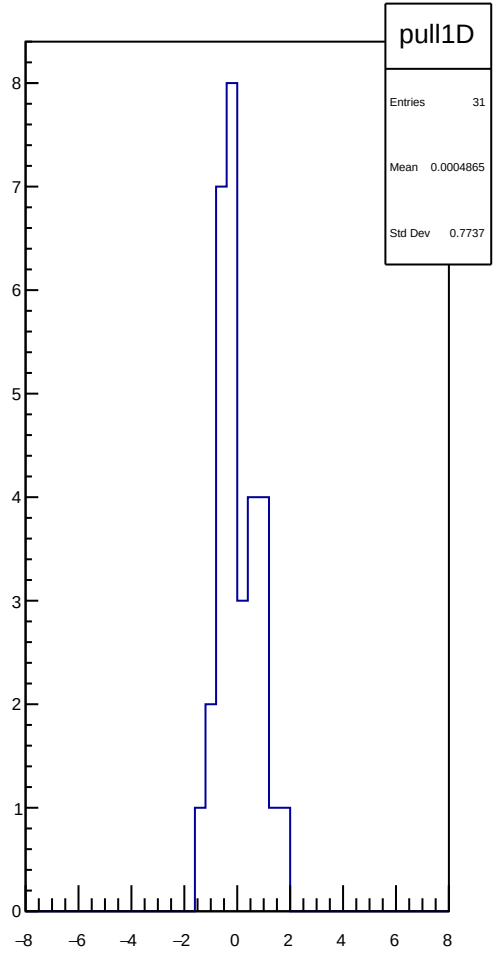

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 36.05 / 30
p0 1045 ± 1.354
1070
1060
1050
1040
1030
1020
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

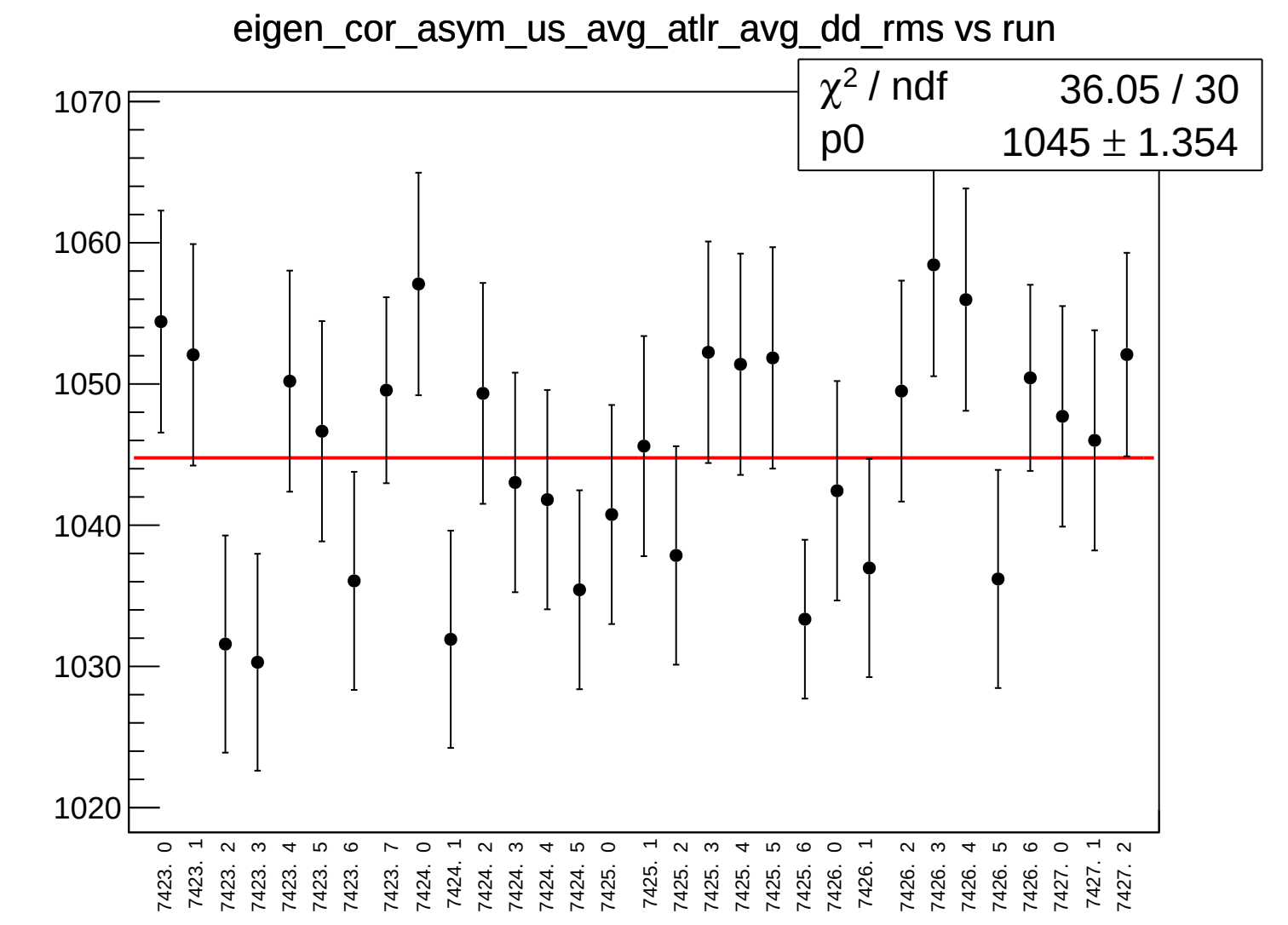

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 21.28 / 30
p0 −2984 ± 5187
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 491.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

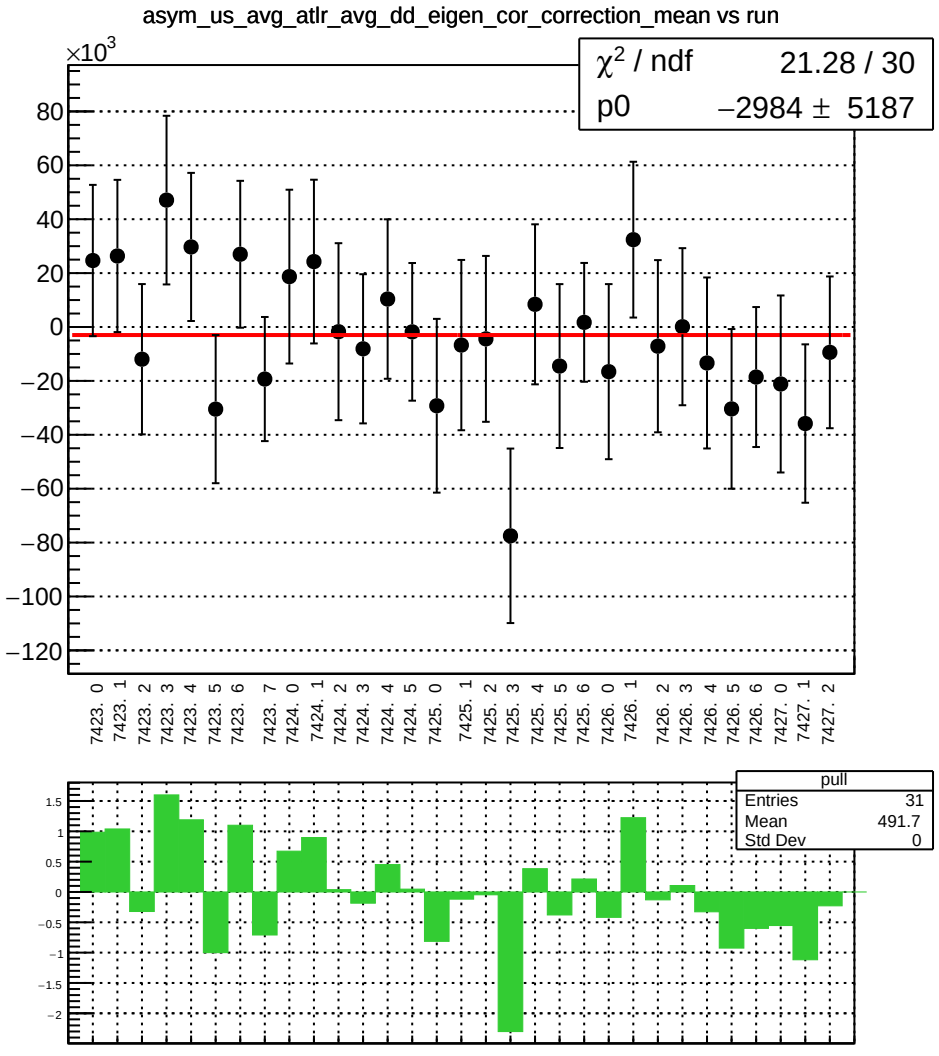

pull1D
Entries 31
Mean −0.007226
Std Dev 0.8285
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

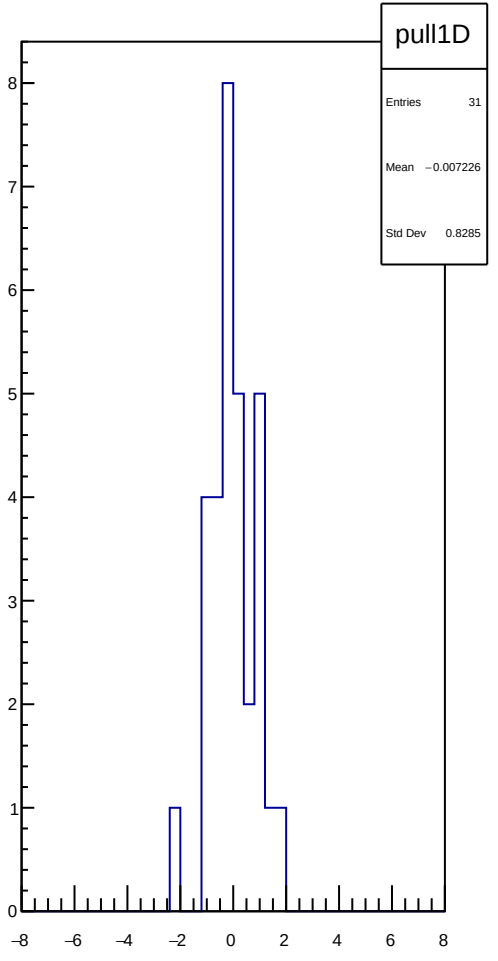

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 2133 / 30
p0 2825 ± 3.668
3100
3000
2900
2800
2700
2600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

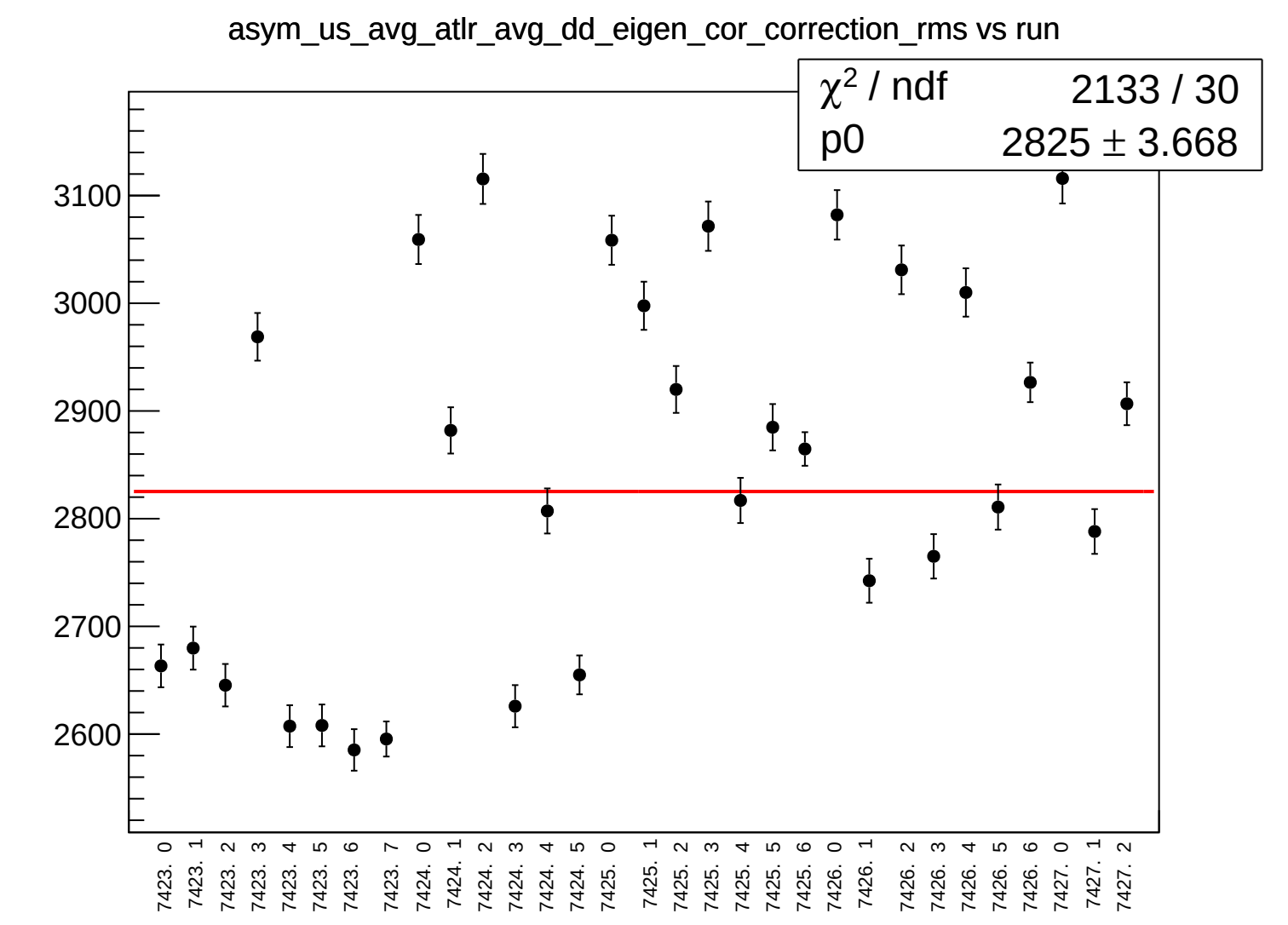

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 18.56 / 30
p0 −555.7 ± 1915
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1399
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

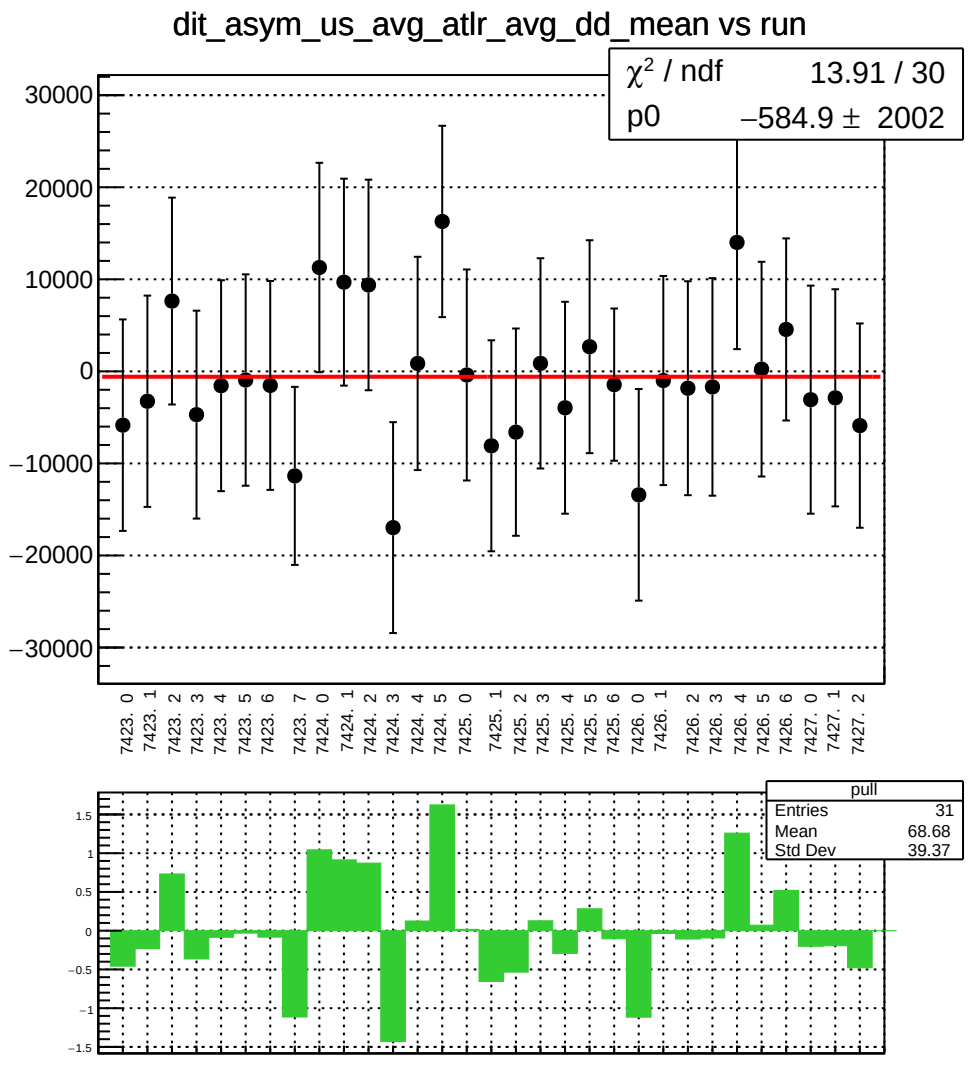

pull1D
Entries 31
Mean 0.0004865
Std Dev 0.7737
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

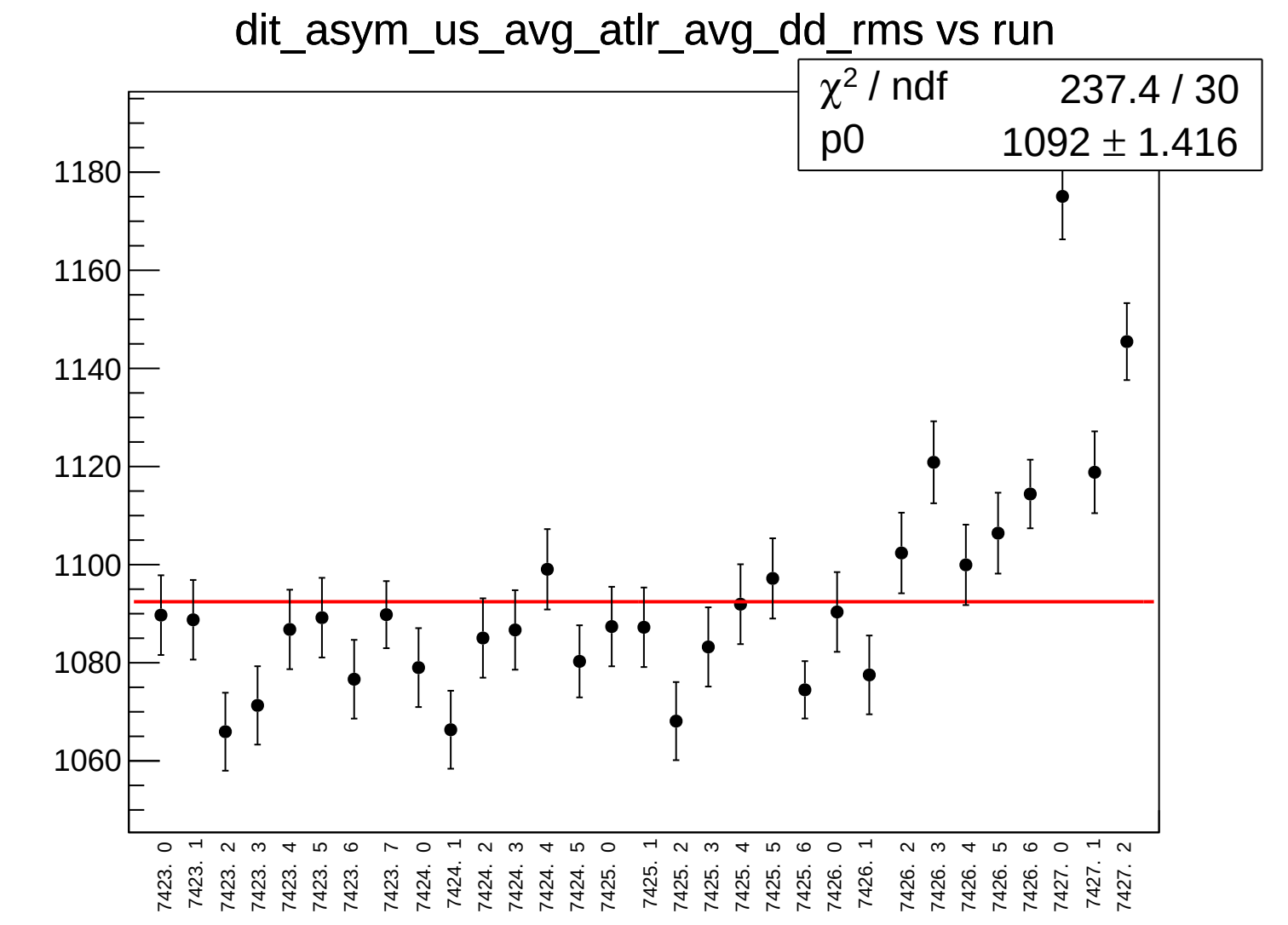

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 36.05 / 30
p0 1045 ± 1.354
1070
1060
1050
1040
1030
1020
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

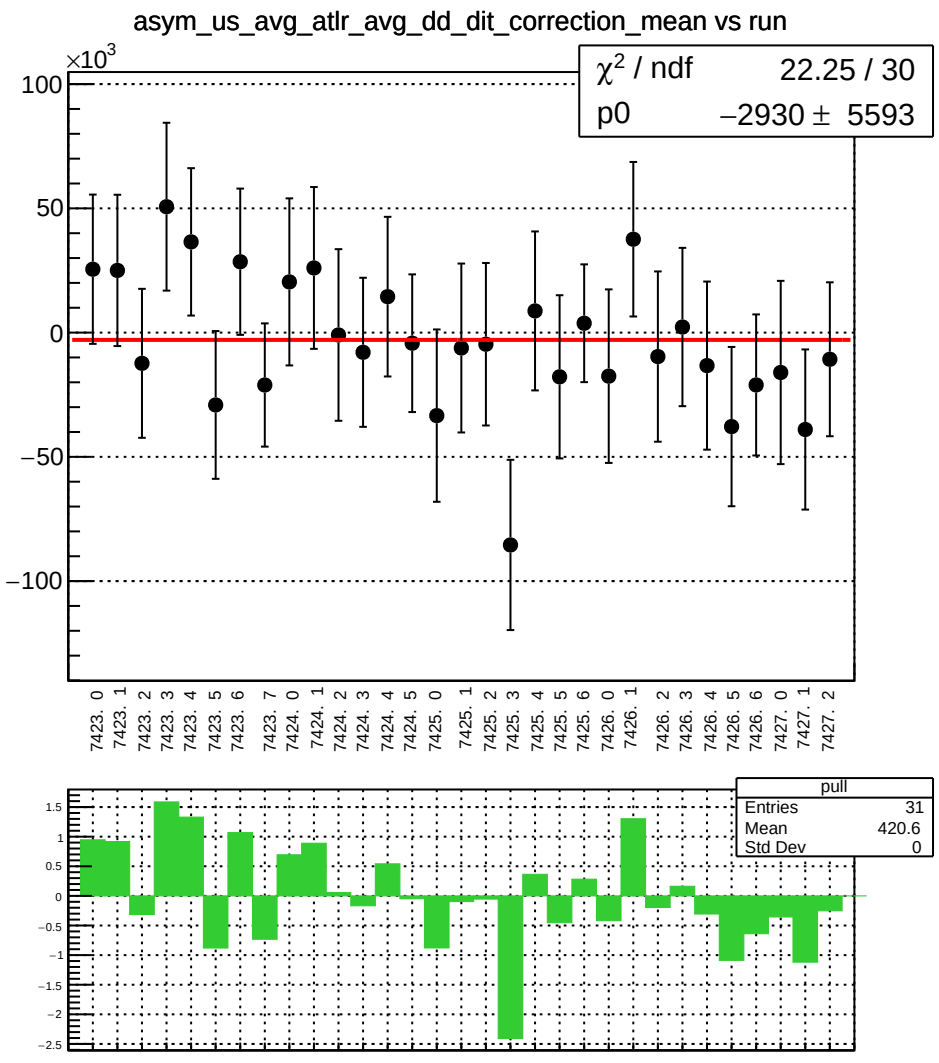

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 21.28 / 30
p0 −2984 ± 5187
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 491.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

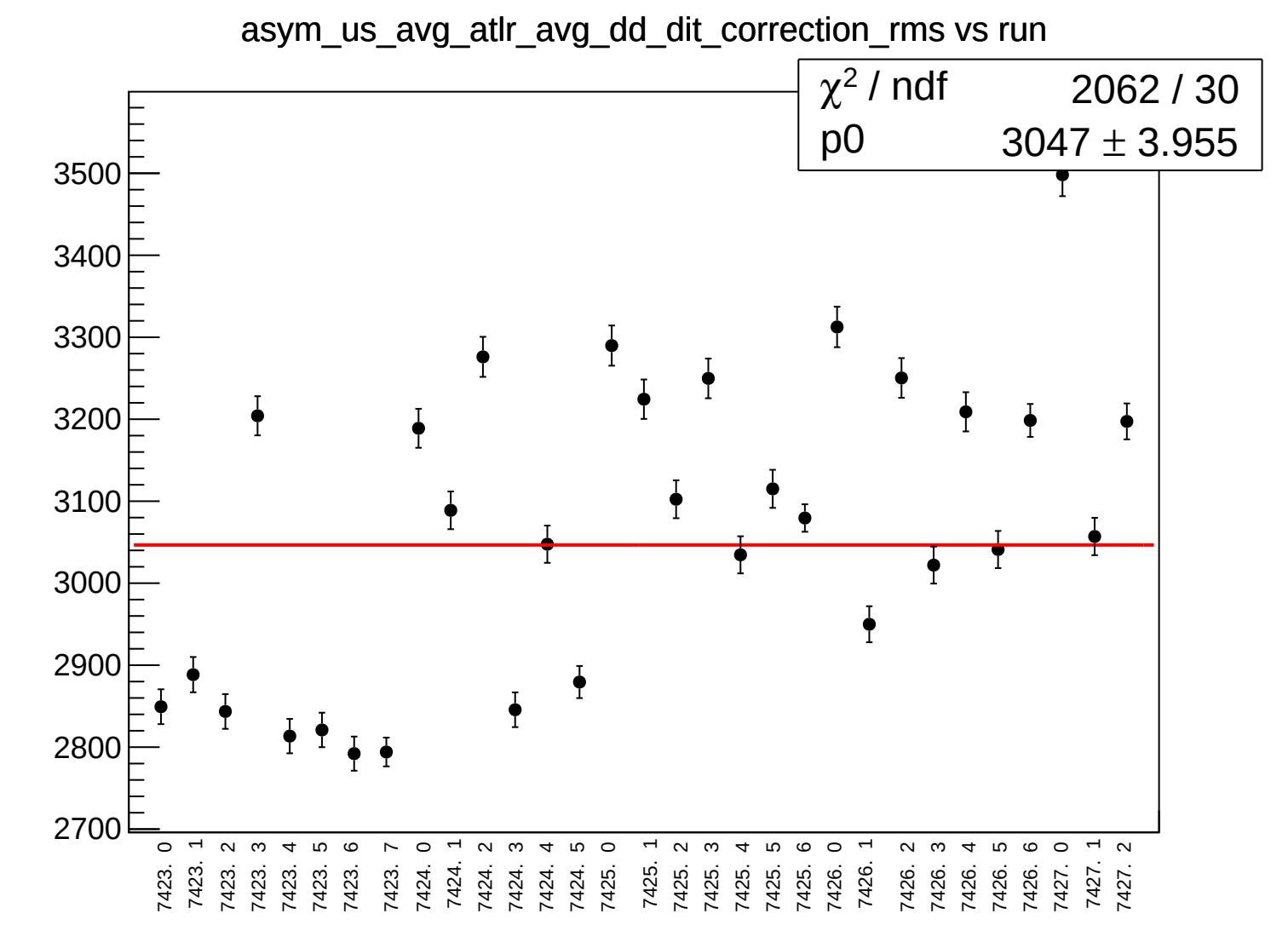

pull1D
Entries 31
Mean −0.007226
Std Dev 0.8285
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

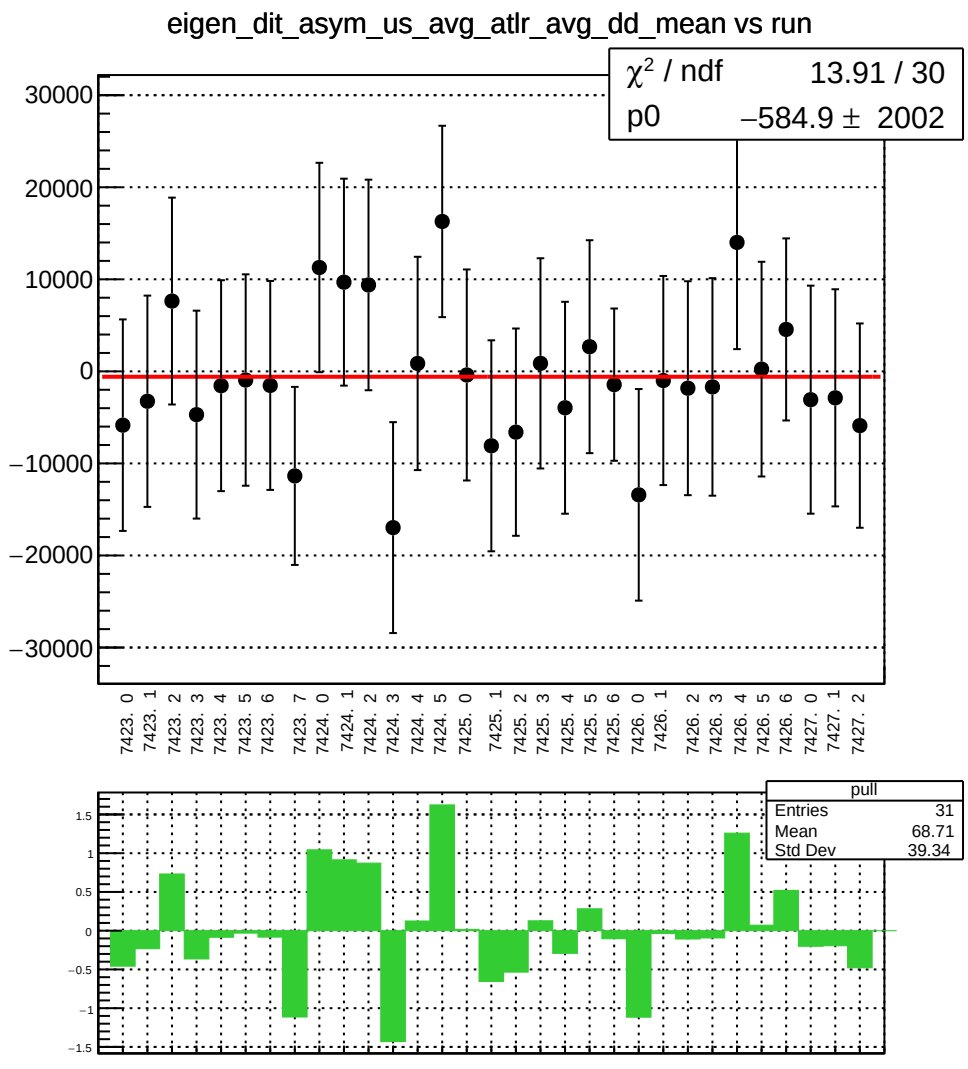

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2133 / 30
p0 2825 ± 3.668
3100
3000
2900
2800
2700
2600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

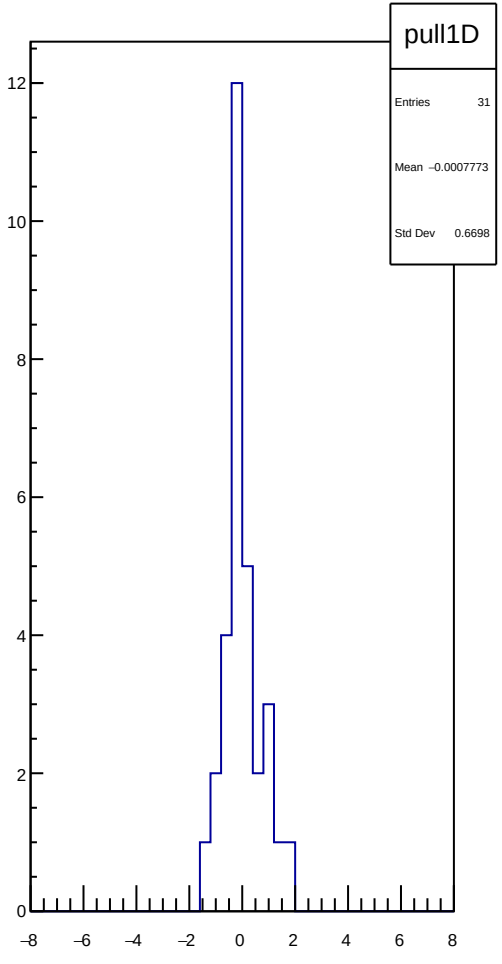

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 13.91 / 30
p0 −584.9 ± 2002
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.68
Std Dev 39.37
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.0007774
Std Dev 0.6698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

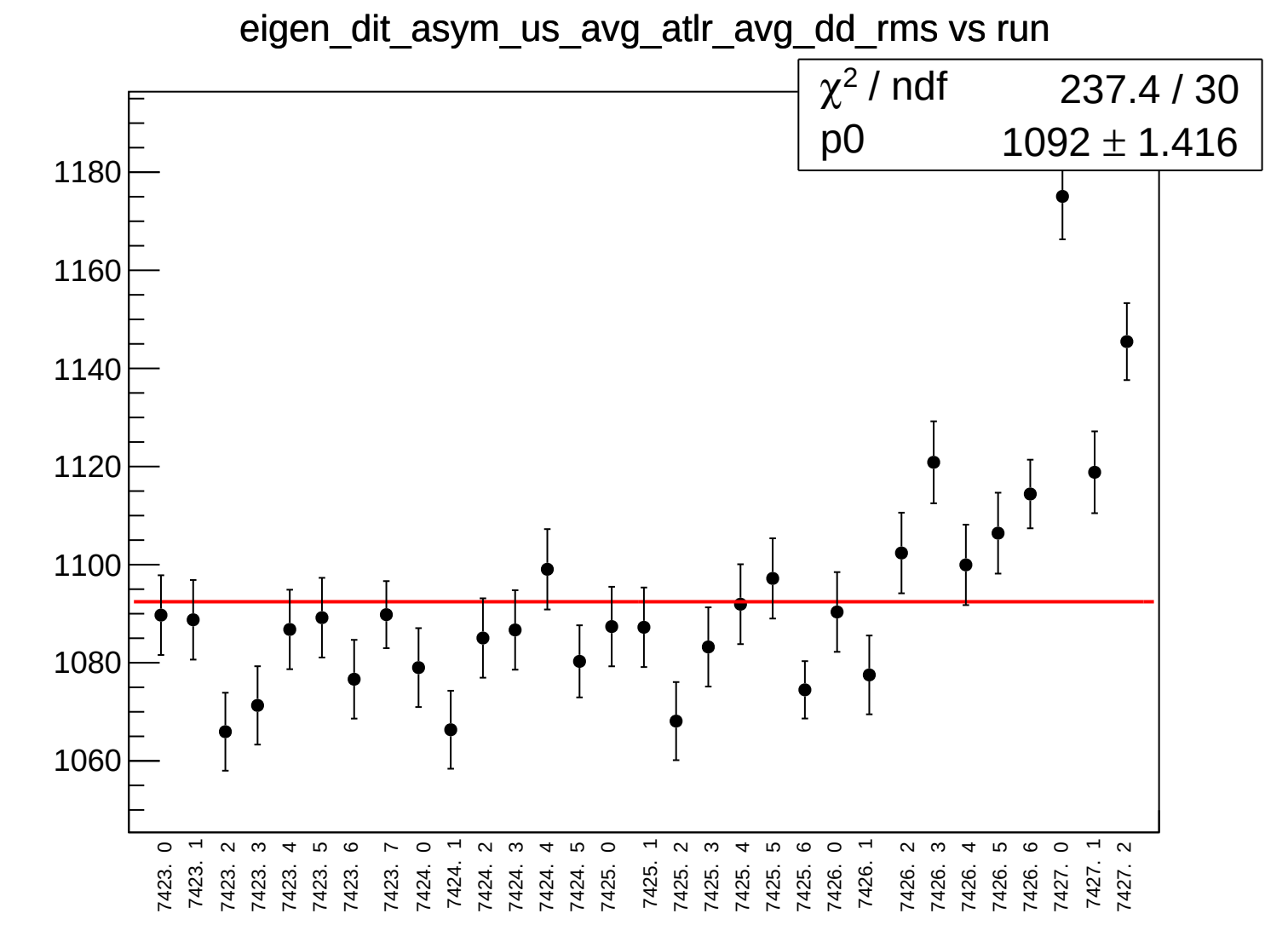

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 237.4 / 30
p0 1092 ± 1.416
1180
1160
1140
1120
1100
1080
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

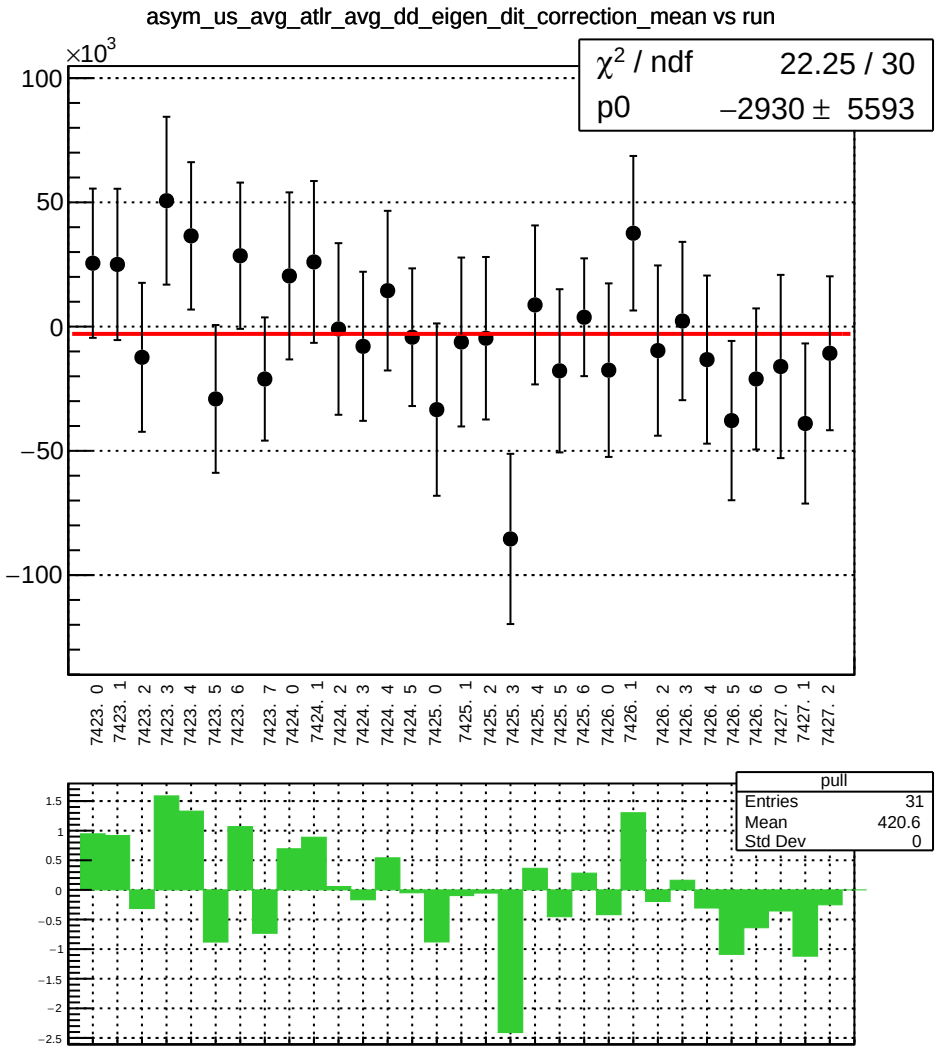

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 22.25 / 30
p0 −2930 ± 5593
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 420.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.008481
Std Dev 0.8471
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

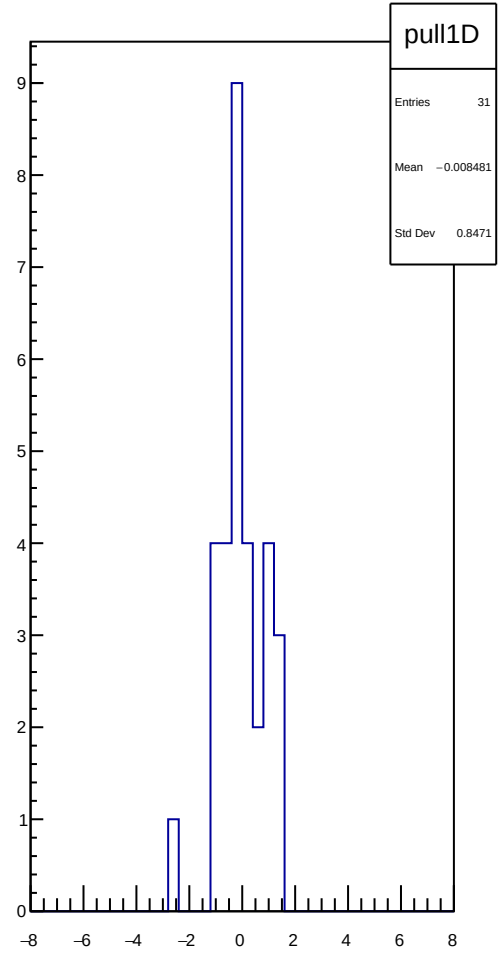

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2062 / 30
p0 3047 ± 3.955
3500
3400
3300
3200
3100
3000
2900
2800
2700
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

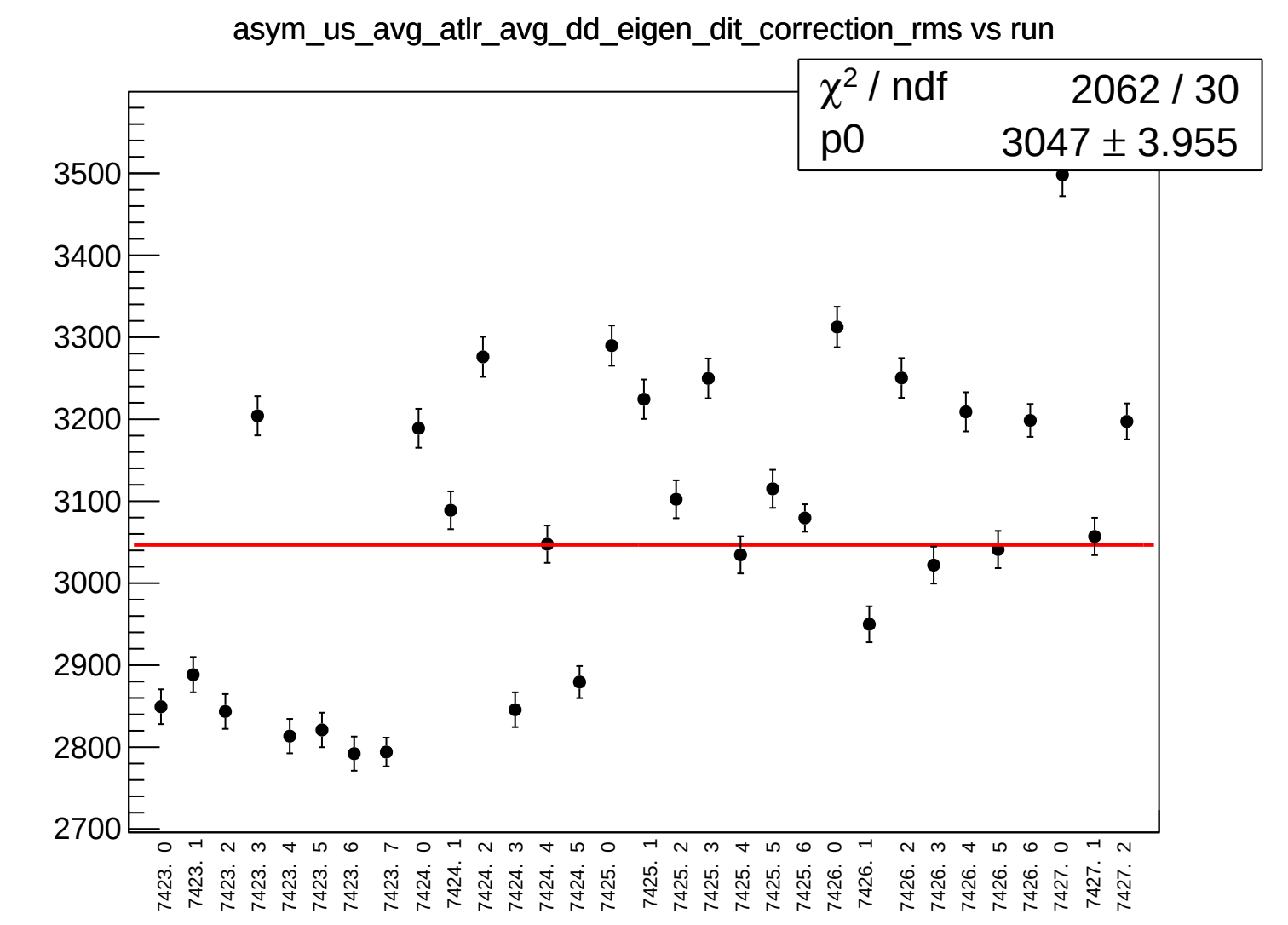

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 13.91 / 30
p0 −584.9 ± 2002
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.71
Std Dev 39.34
1.5
1
0.5
0
−0.5
−1
−1.5

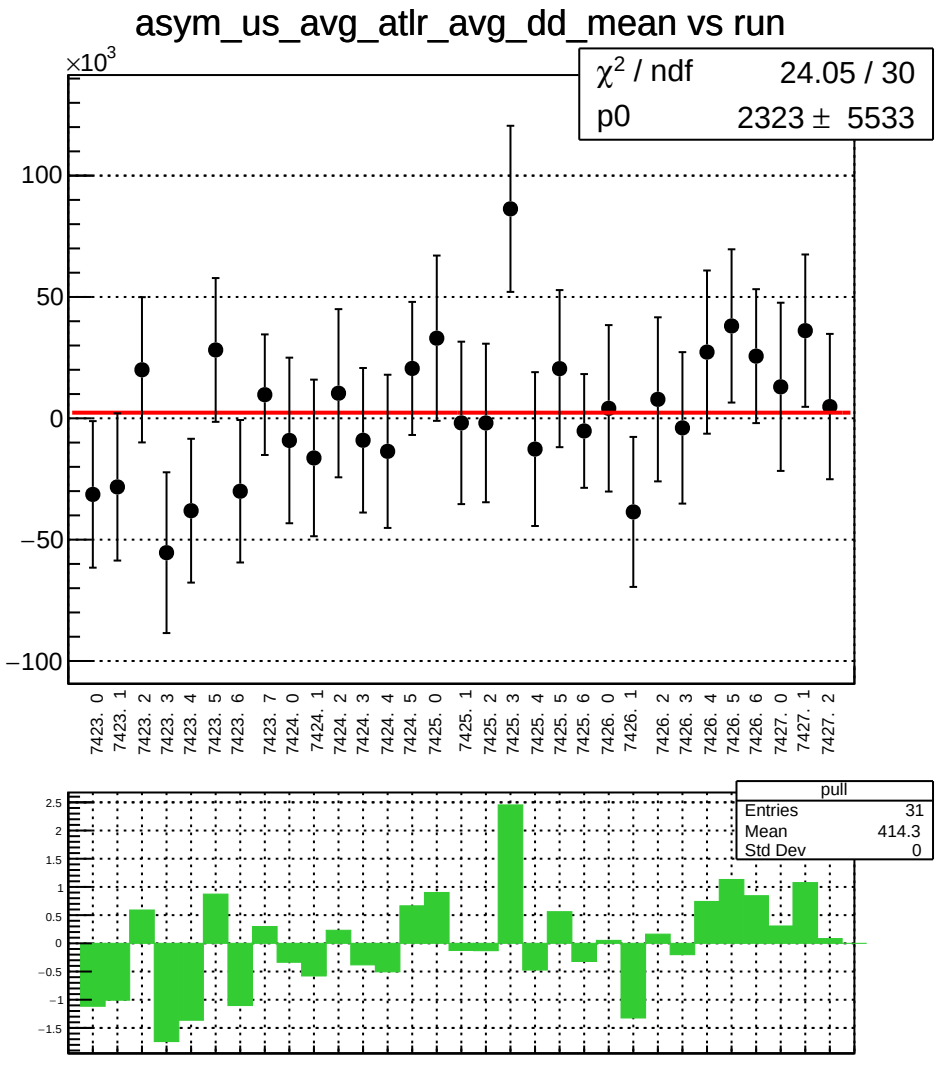

pull1D
Entries 31
Mean −0.0007773
Std Dev 0.6698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

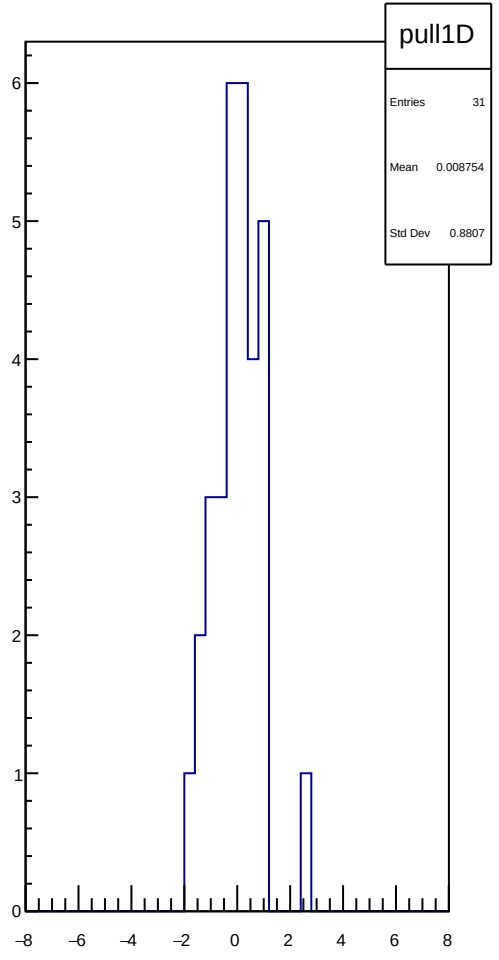

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 237.4 / 30
p0 1092 ± 1.416
1180
1160
1140
1120
1100
1080
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

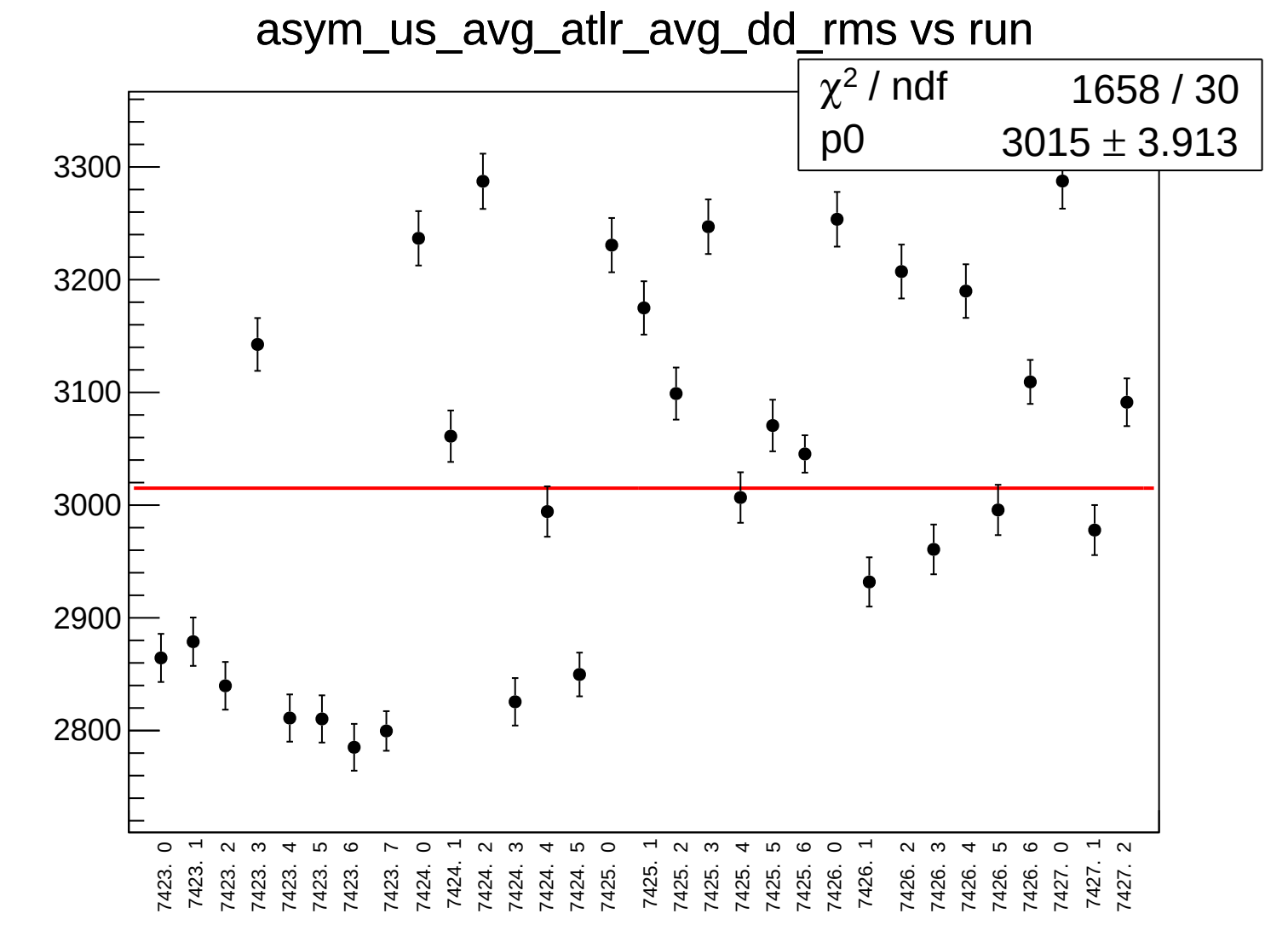

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 22.25 / 30
p0 −2930 ± 5593
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 420.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

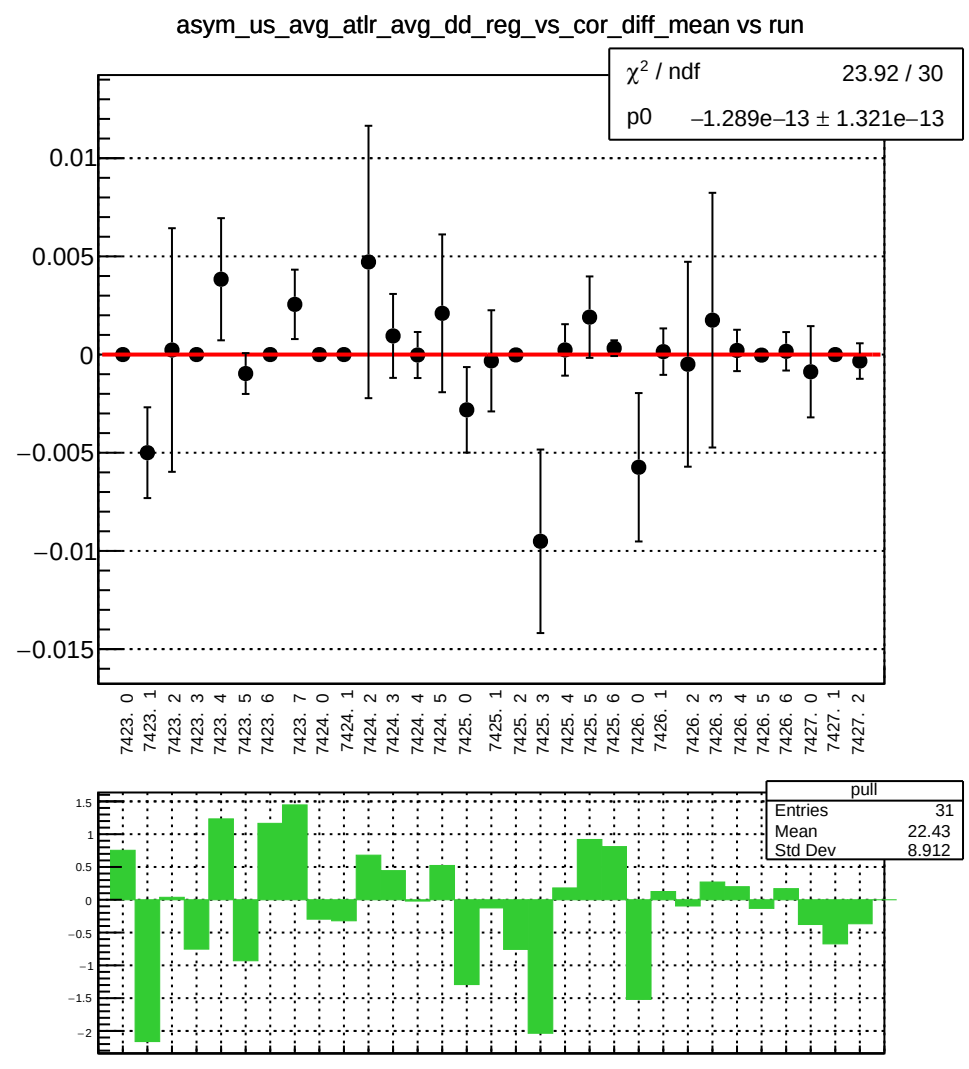

pull1D
Entries 31
Mean −0.008481
Std Dev 0.8471
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

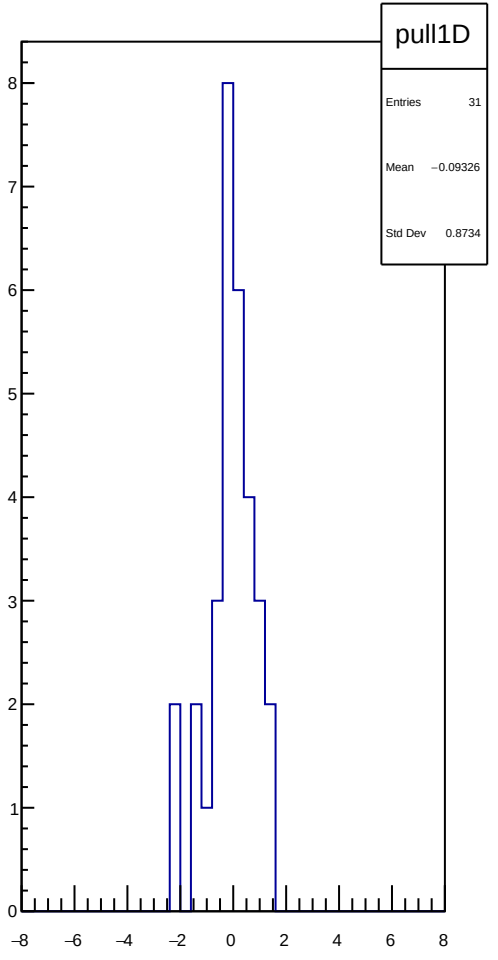

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2062 / 30
p0 3047 ± 3.955
3500
3400
3300
3200
3100
3000
2900
2800
2700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

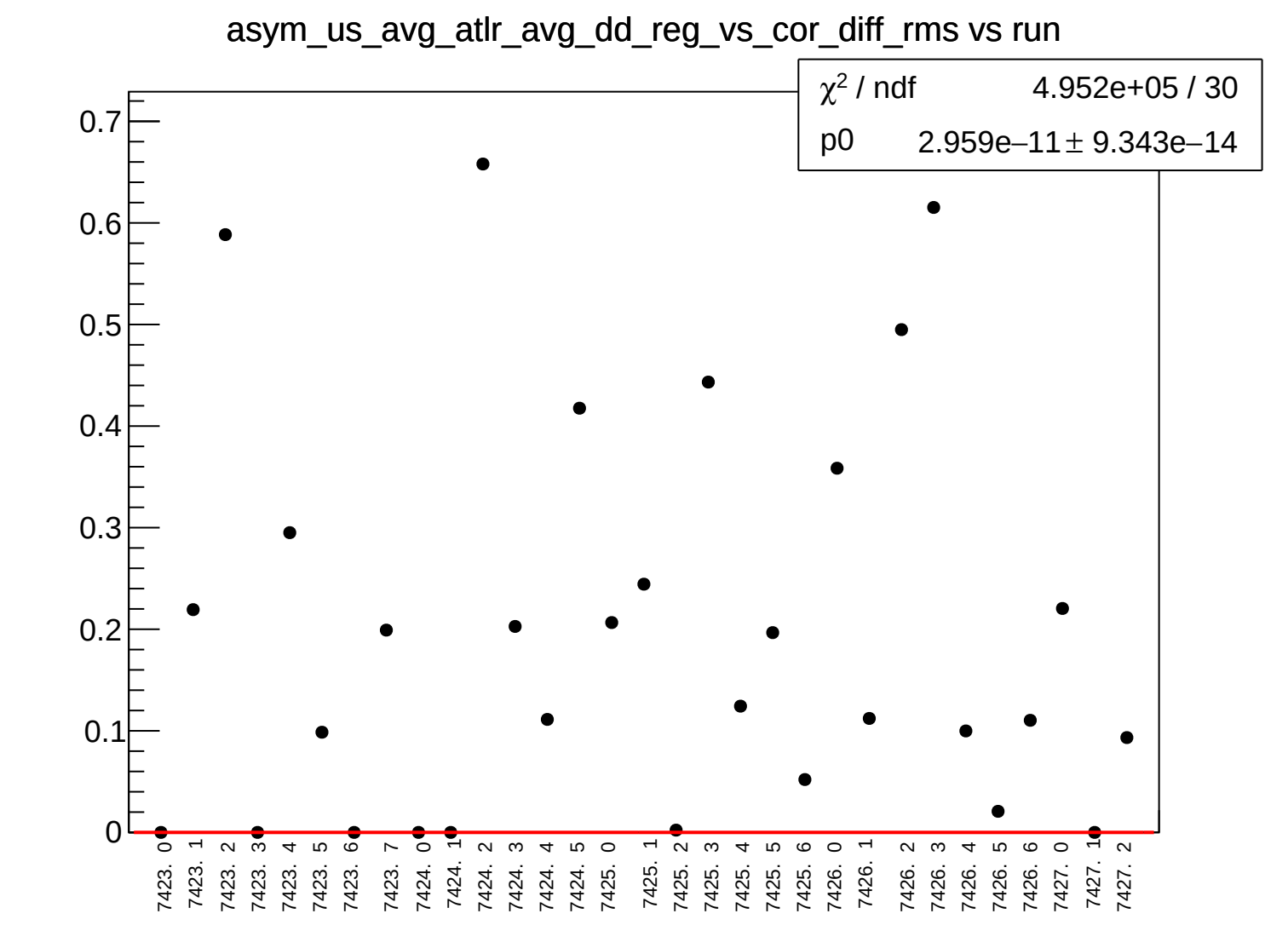

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 24.05 / 30
p0 2323 ± 5533
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 414.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

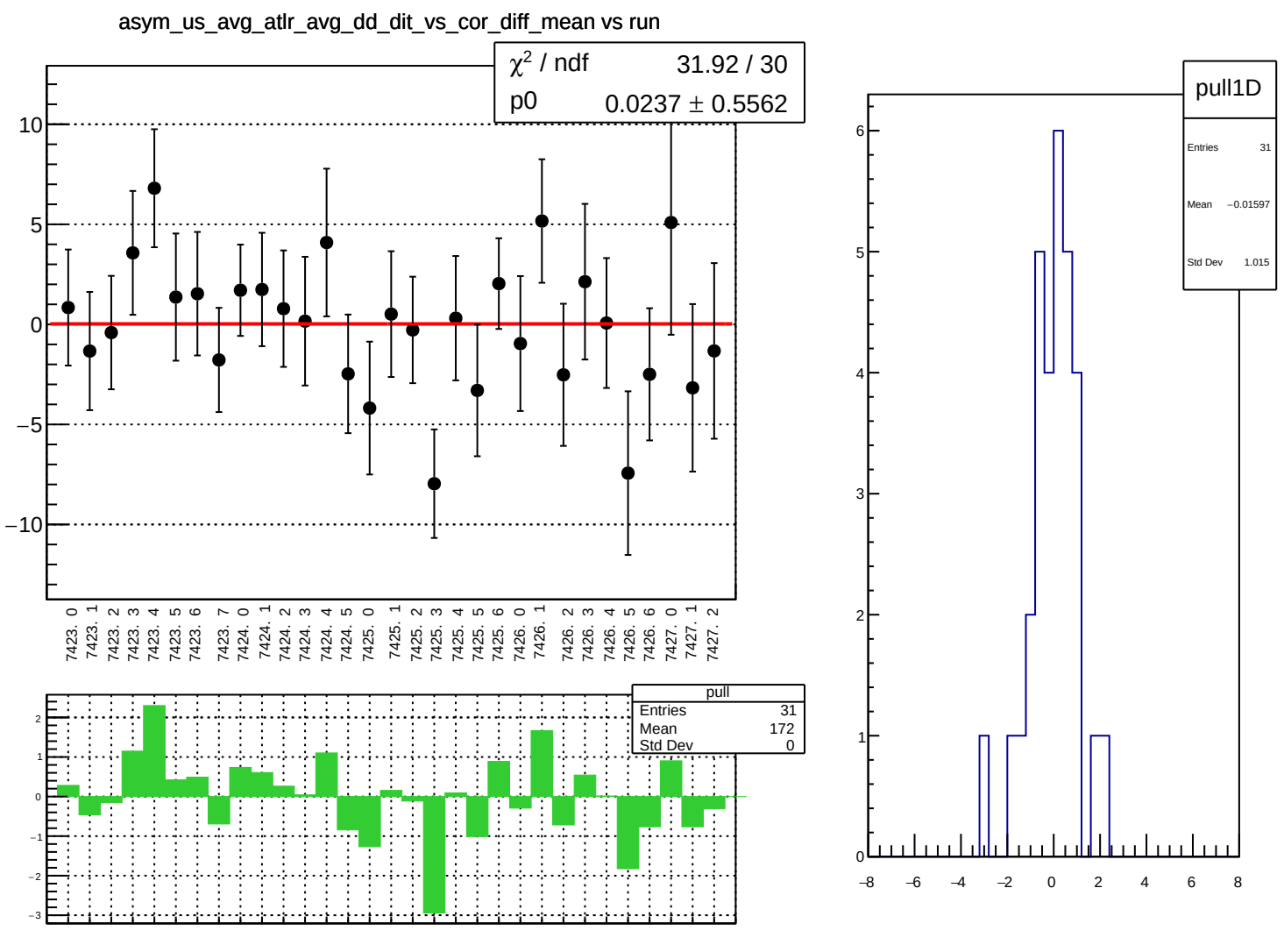

pull1D
Entries 31
Mean 0.008754
Std Dev 0.8807
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

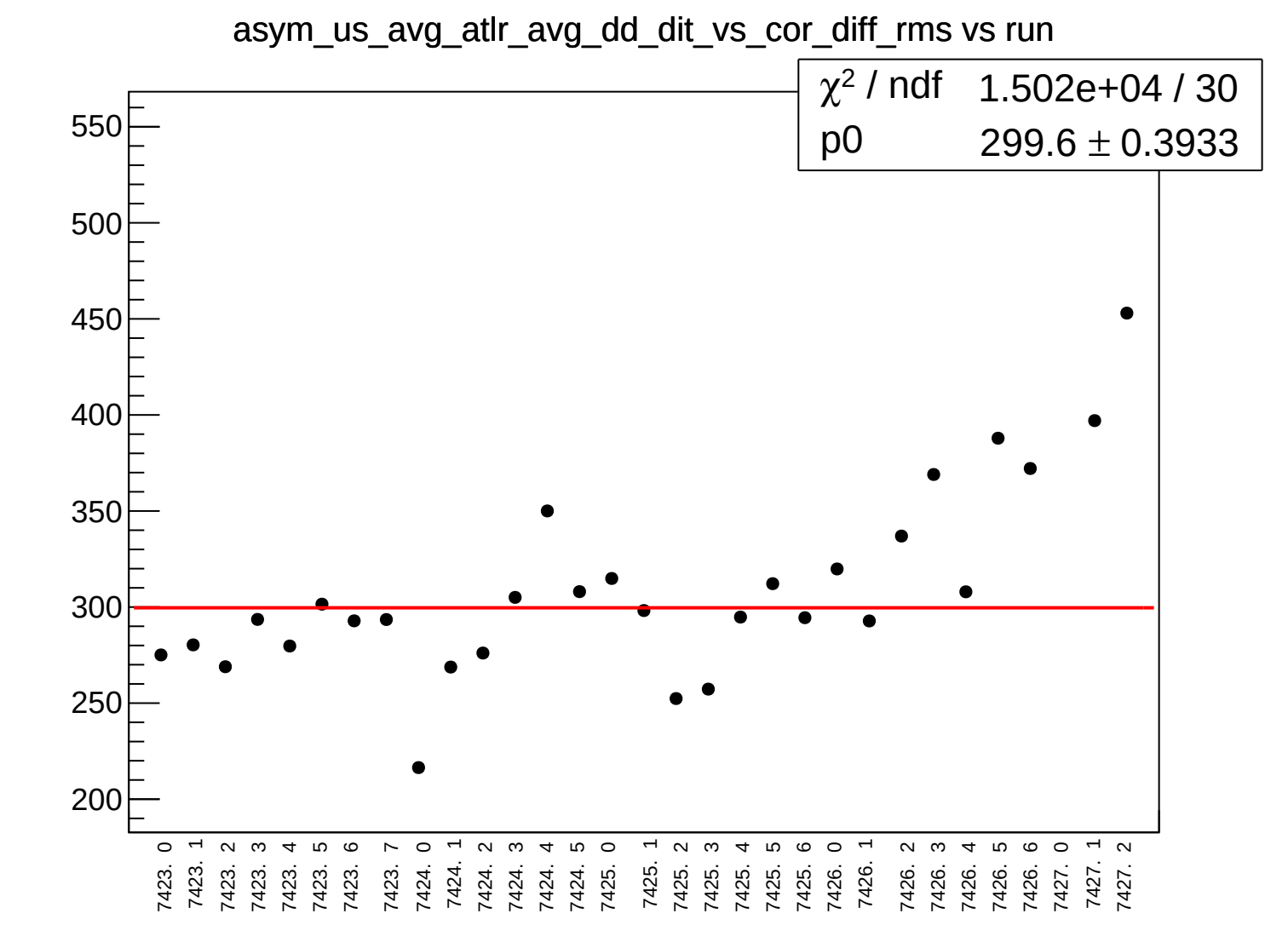

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1658 / 30
p0 3015 ± 3.913
3300
3200
3100
3000
2900
2800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

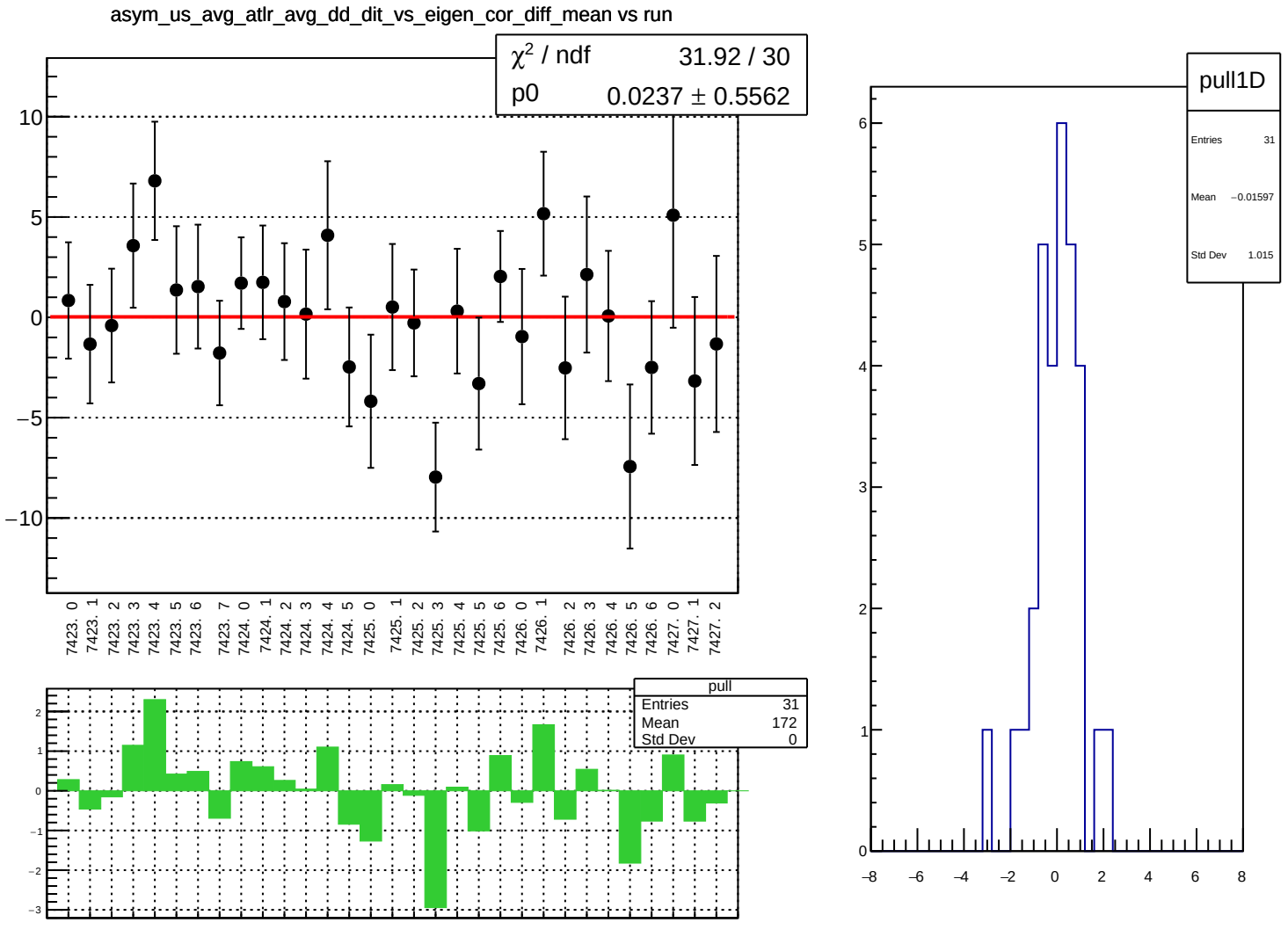

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 23.92 / 30
p0 −1.289e−13 ± 1.321e−13
0.01
0.005
0
−0.005
−0.01
−0.015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 22.43
Std Dev 8.912
1.5
1
0.5
0
−0.5
−1
−1.5
−2

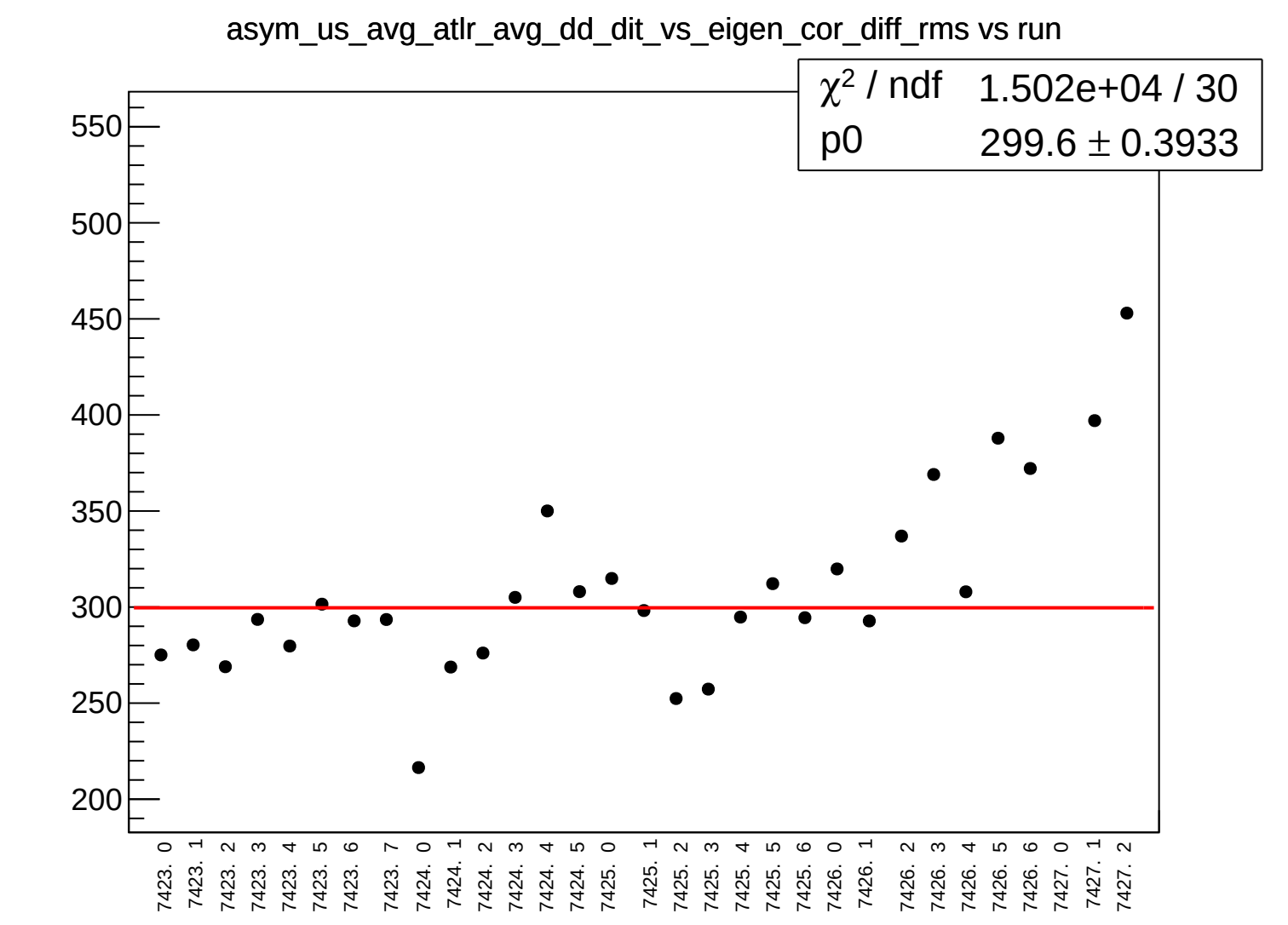

pull1D
Entries 31
Mean −0.09326
Std Dev 0.8734
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

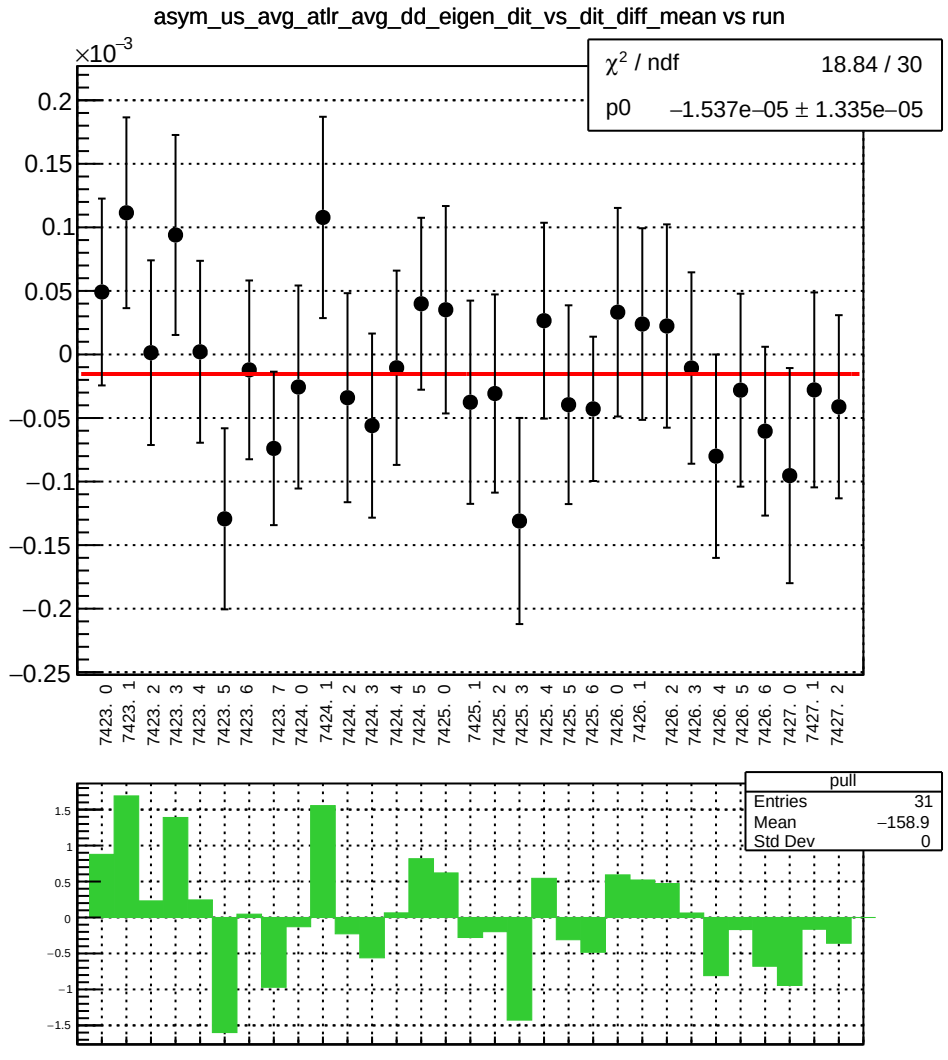

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.952e+05 / 30
p0 2.959e−11 ± 9.343e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

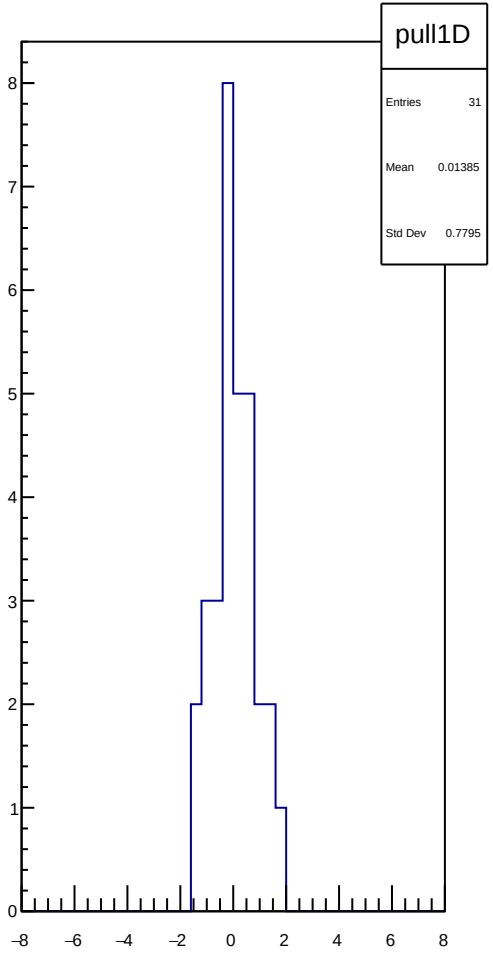

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 31.92 / 30
p0 0.0237 ± 0.5562
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 172
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.01597
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

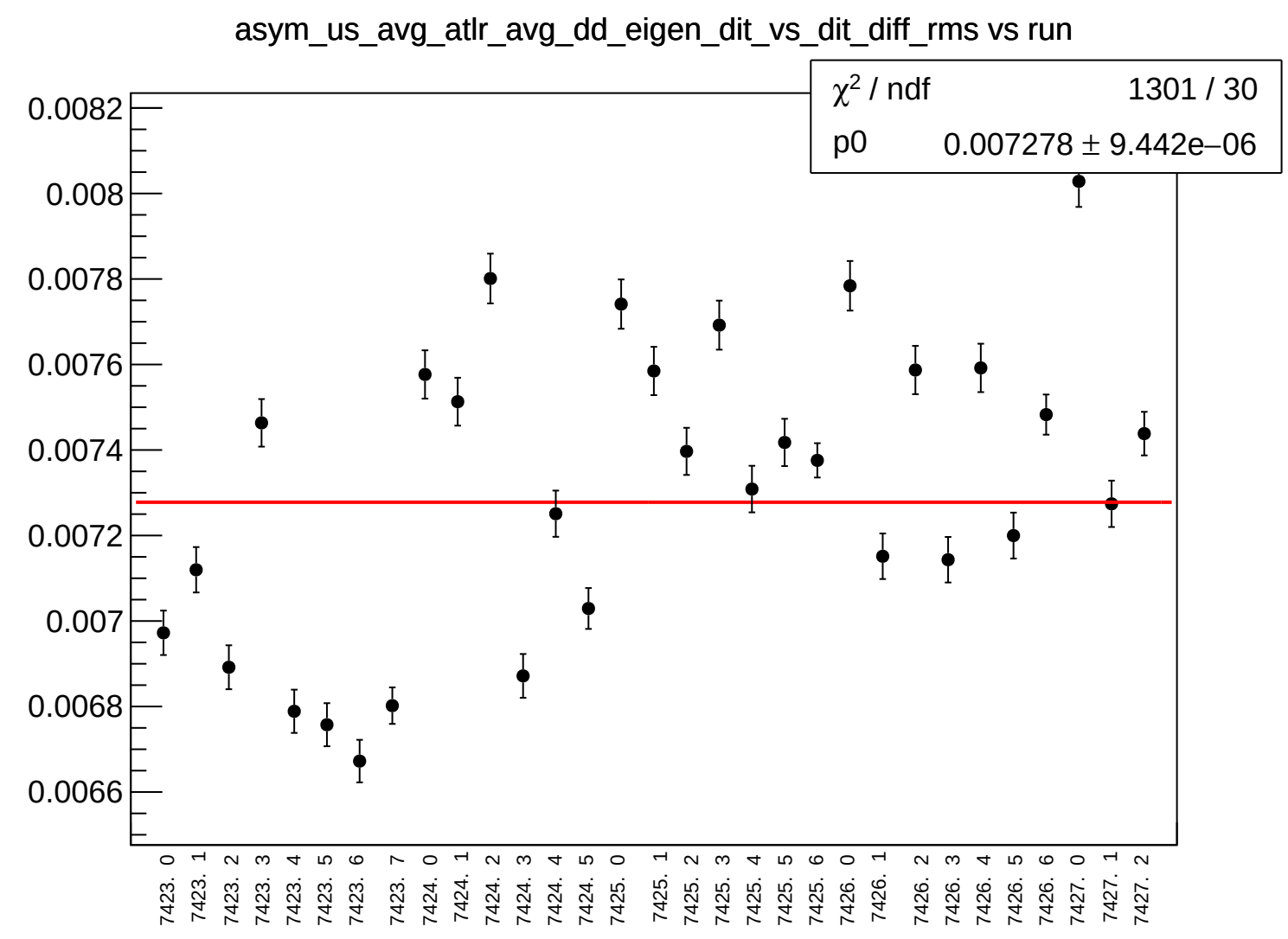

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.502e+04 / 30
p0 299.6 ± 0.3933
550
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

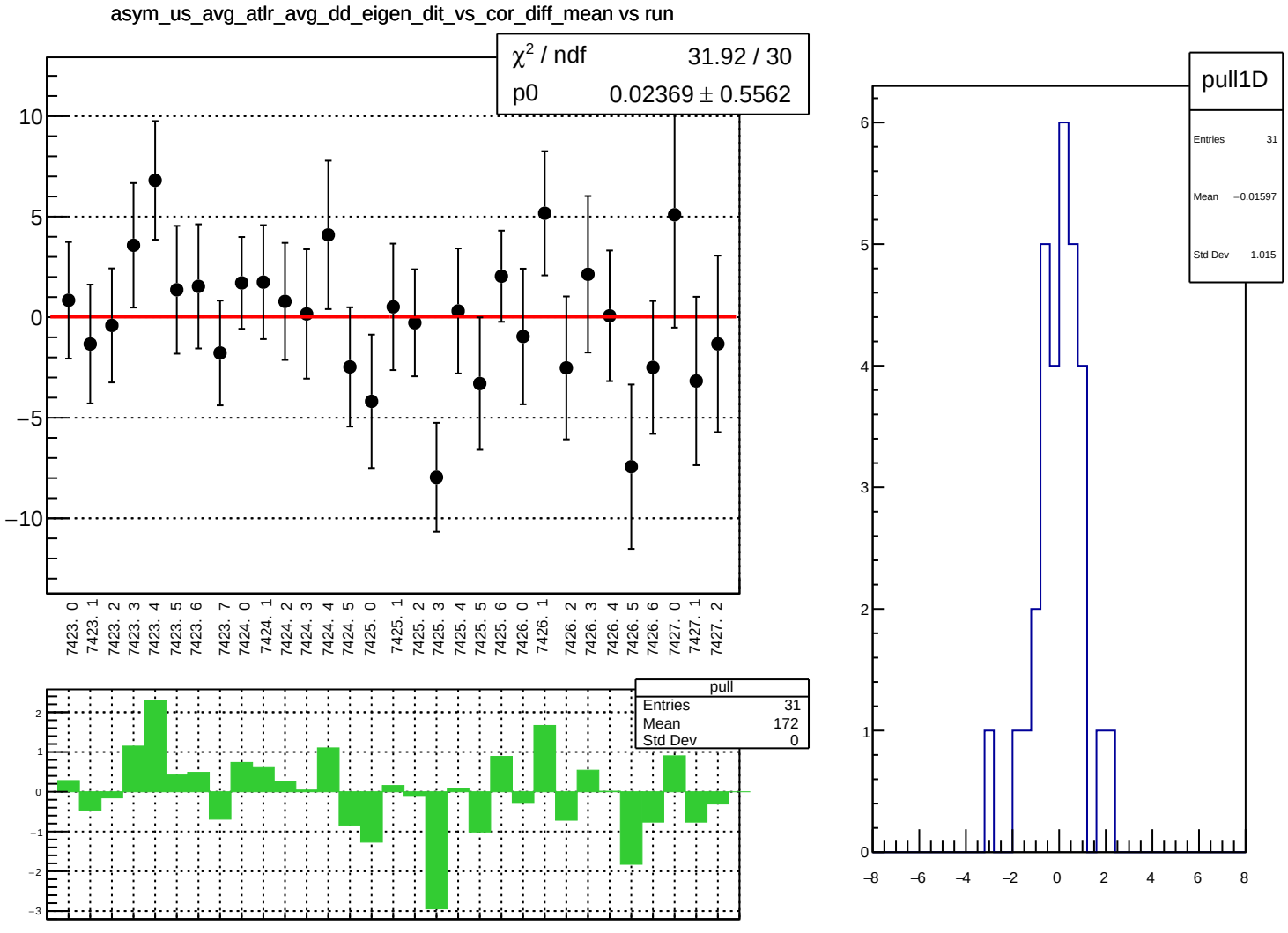

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.92 / 30
p0 0.0237 ± 0.5562
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 172
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.01597
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

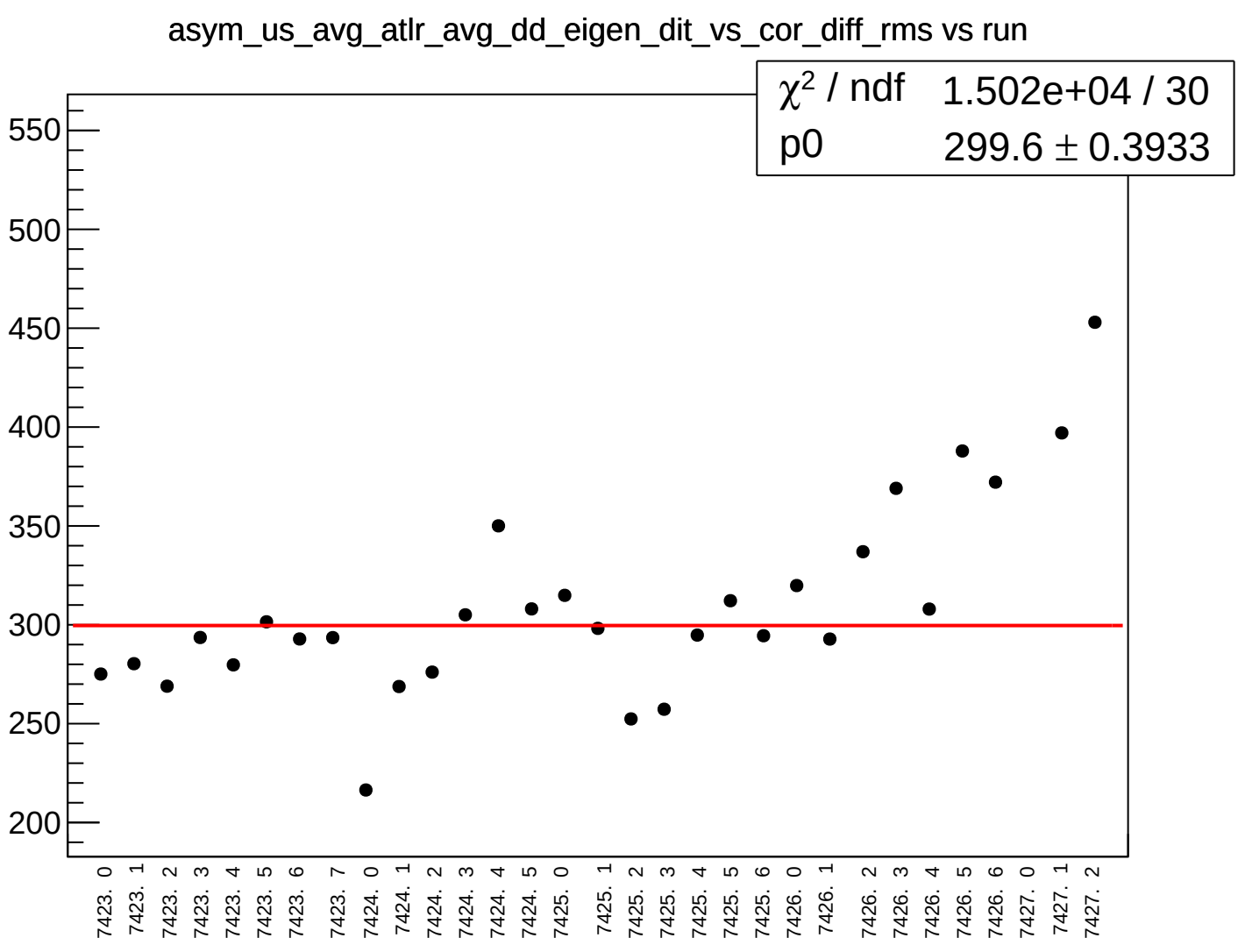

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.502e+04 / 30
p0 299.6 ± 0.3933
550
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

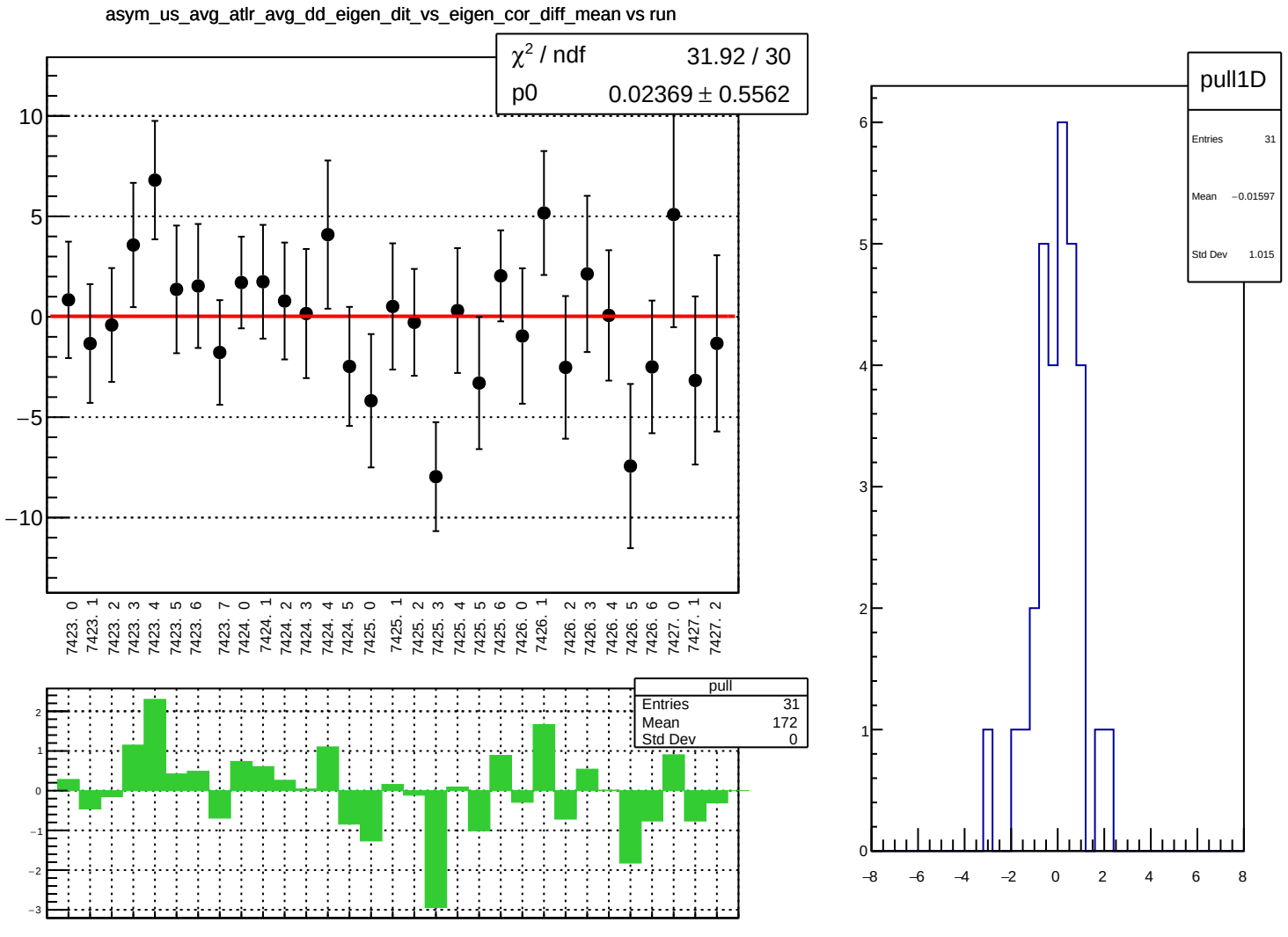

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 18.84 / 30
p0 −1.537e−05 ± 1.335e−05
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −158.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

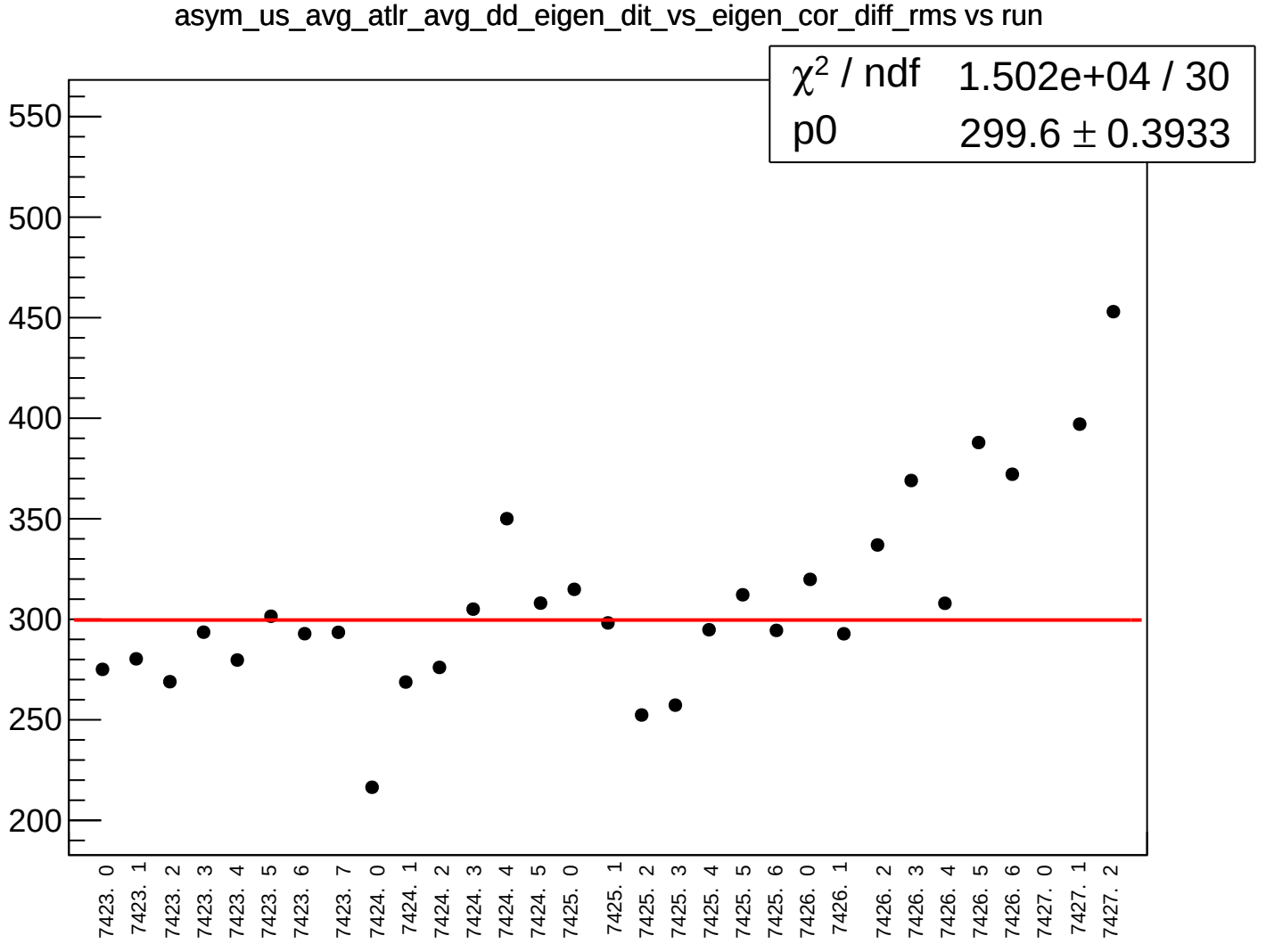

pull1D
Entries 31
Mean 0.01385
Std Dev 0.7795
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

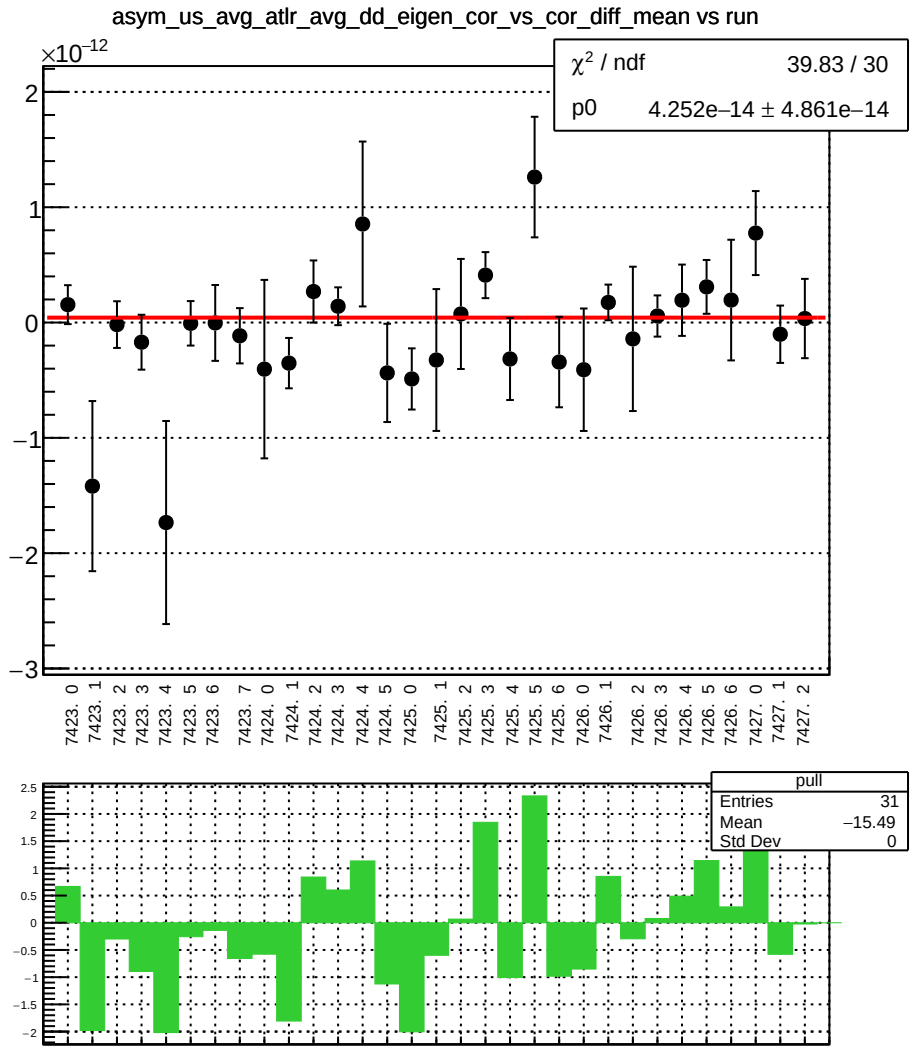

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1301 / 30
p0 0.007278 ± 9.442e−06
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

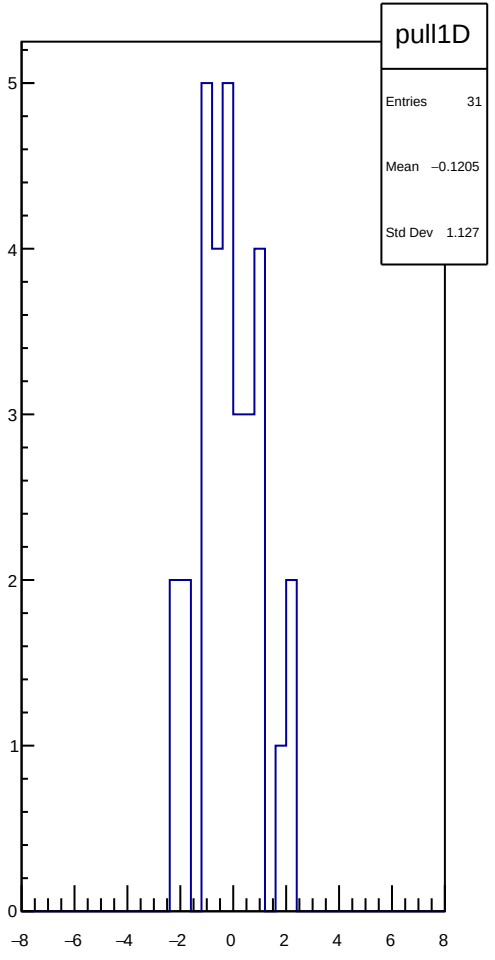

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.92 / 30
p0 0.02369 ± 0.5562
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 172
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.01597
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

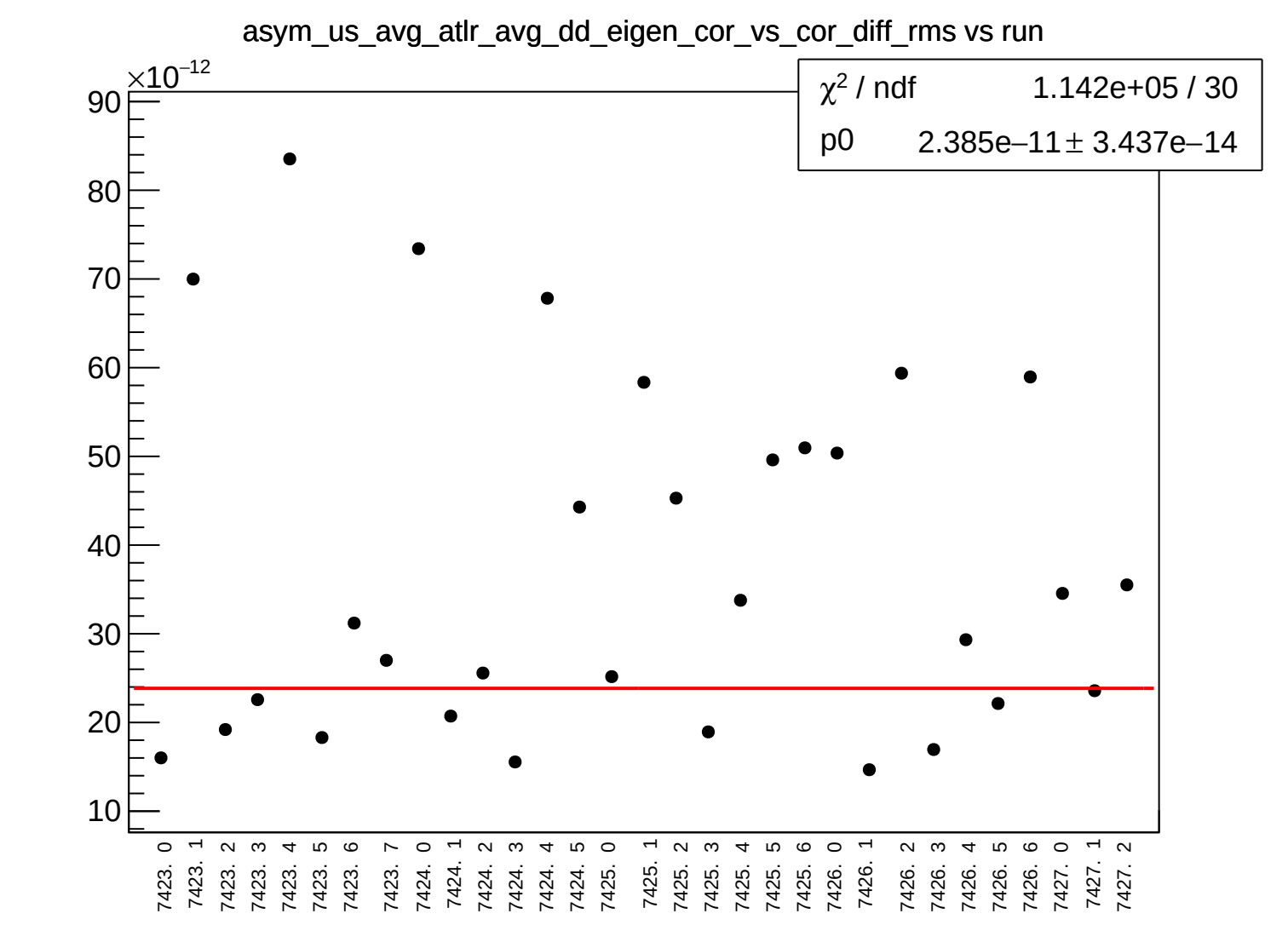

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.502e+04 / 30
p0 299.6 ± 0.3933
550
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

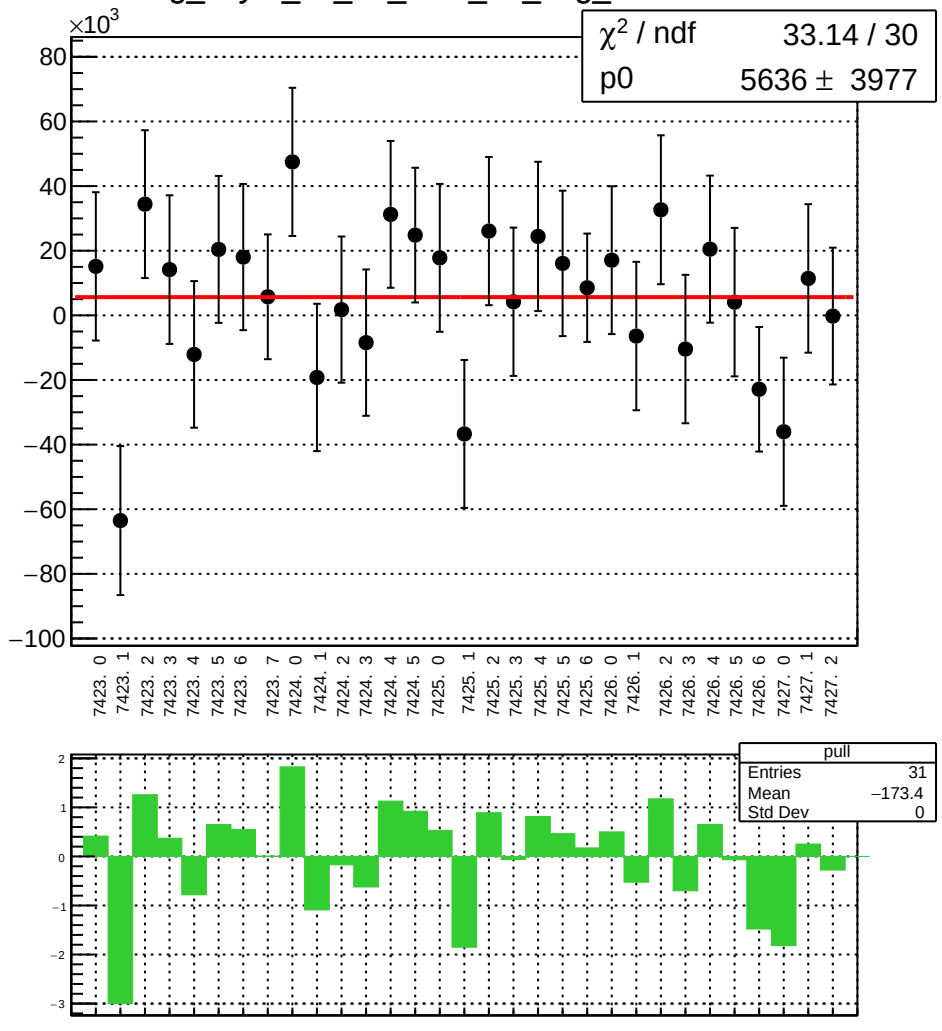

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.92 / 30
p0 0.02369 ± 0.5562
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 172
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.01597
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

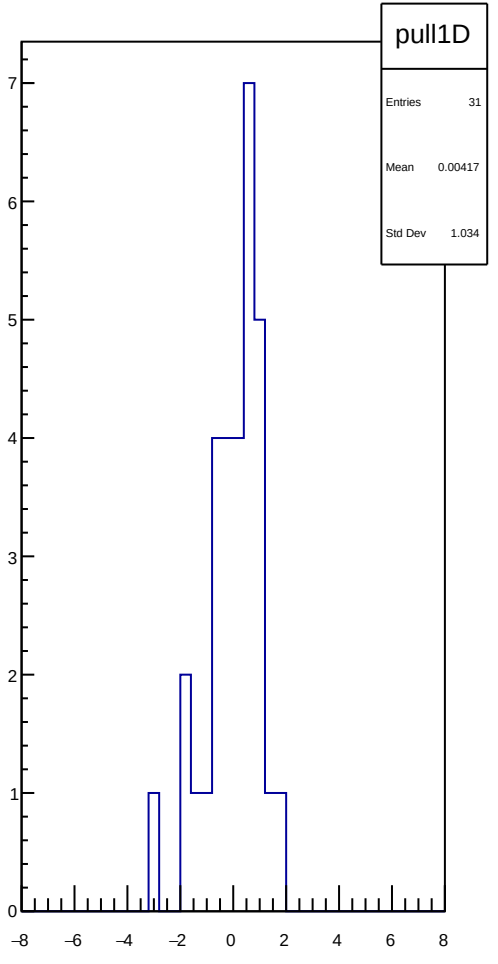

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.502e+04 / 30
p0 299.6 ± 0.3933
550
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

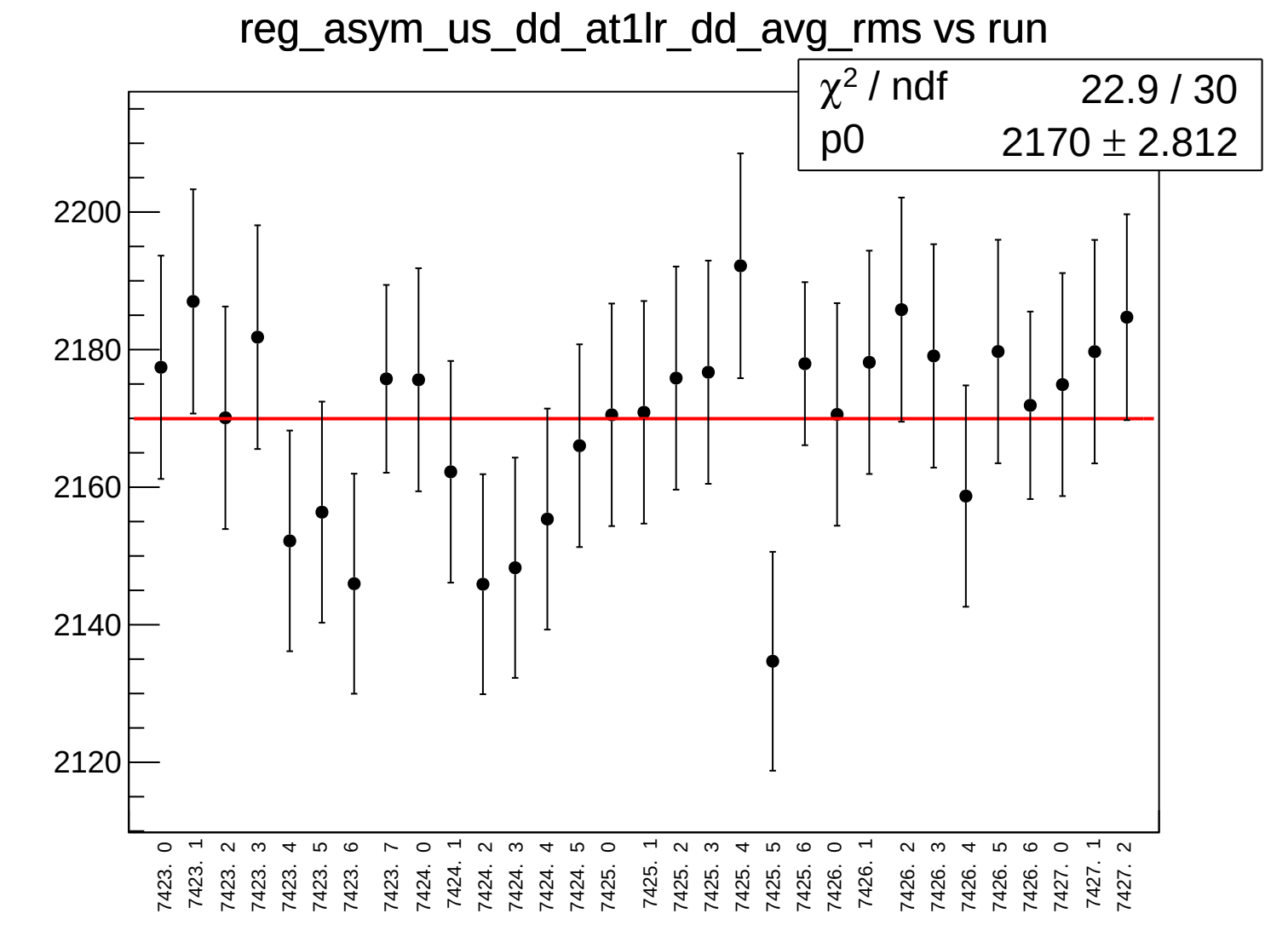

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.83 / 30
p0 4.252e−14 ± 4.861e−14
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −15.49
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

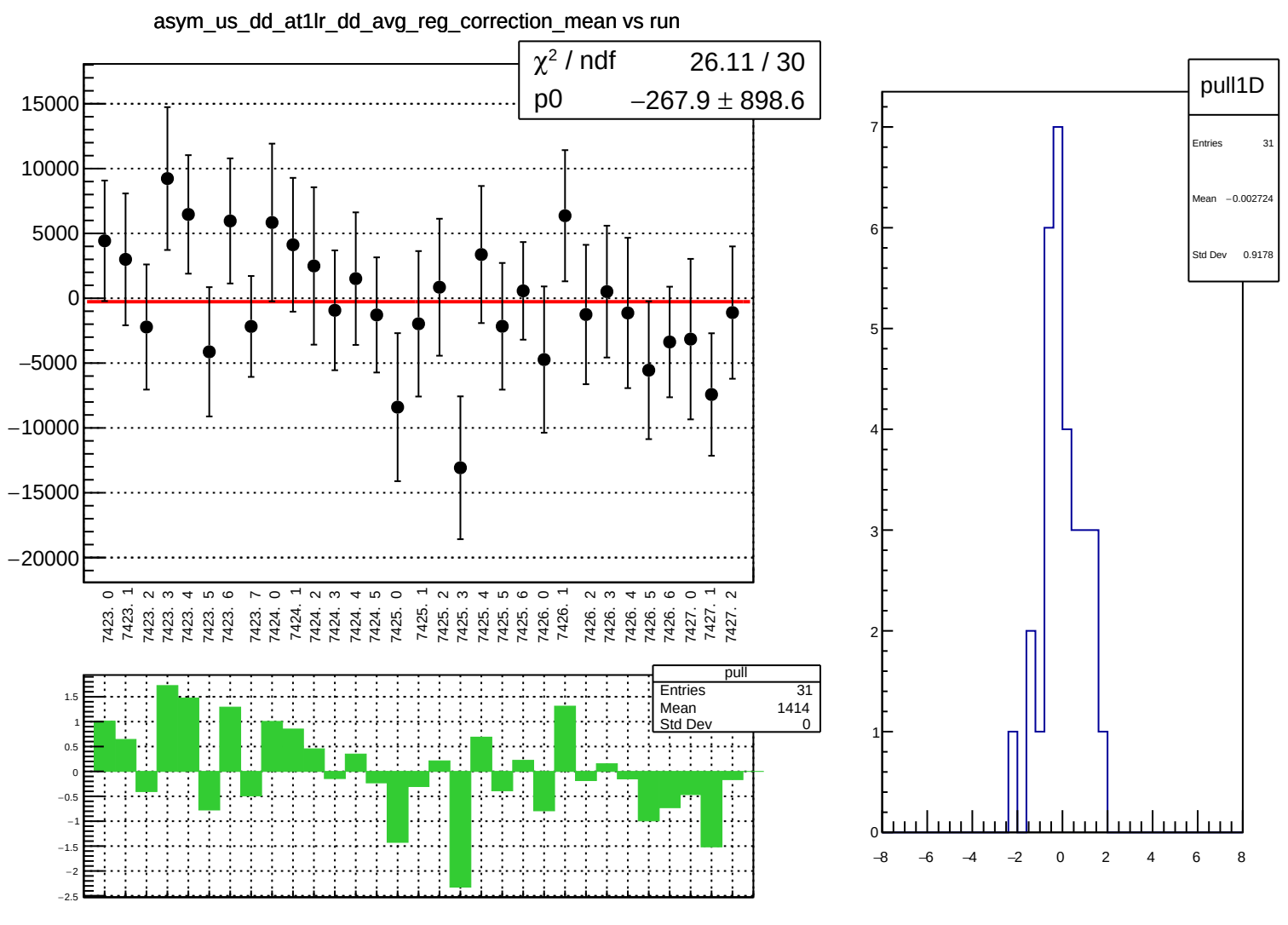

pull1D
Entries 31
Mean −0.1205
Std Dev 1.127
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

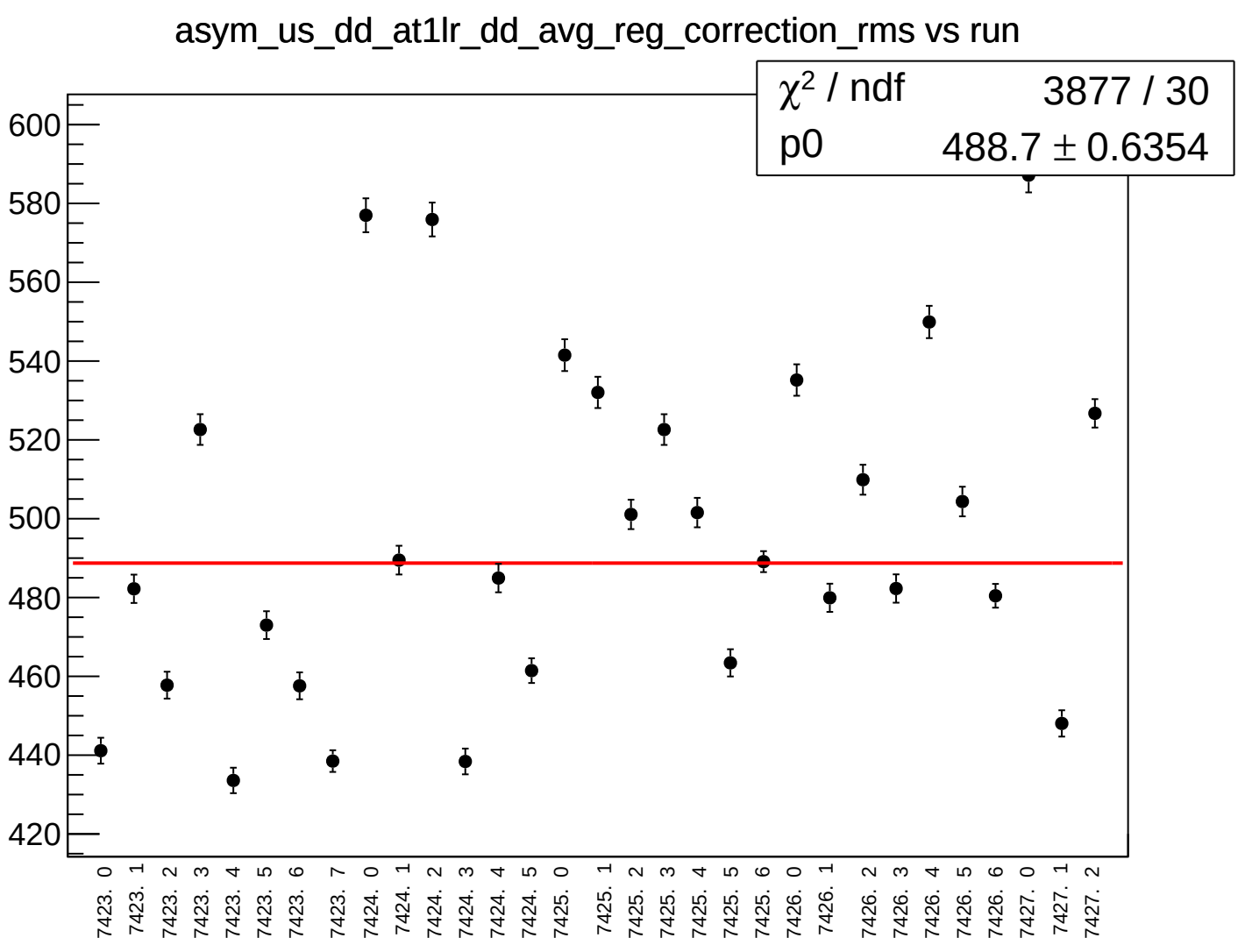

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.142e+05 / 30
p0 2.385e−11 ± 3.437e−14
90
80
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

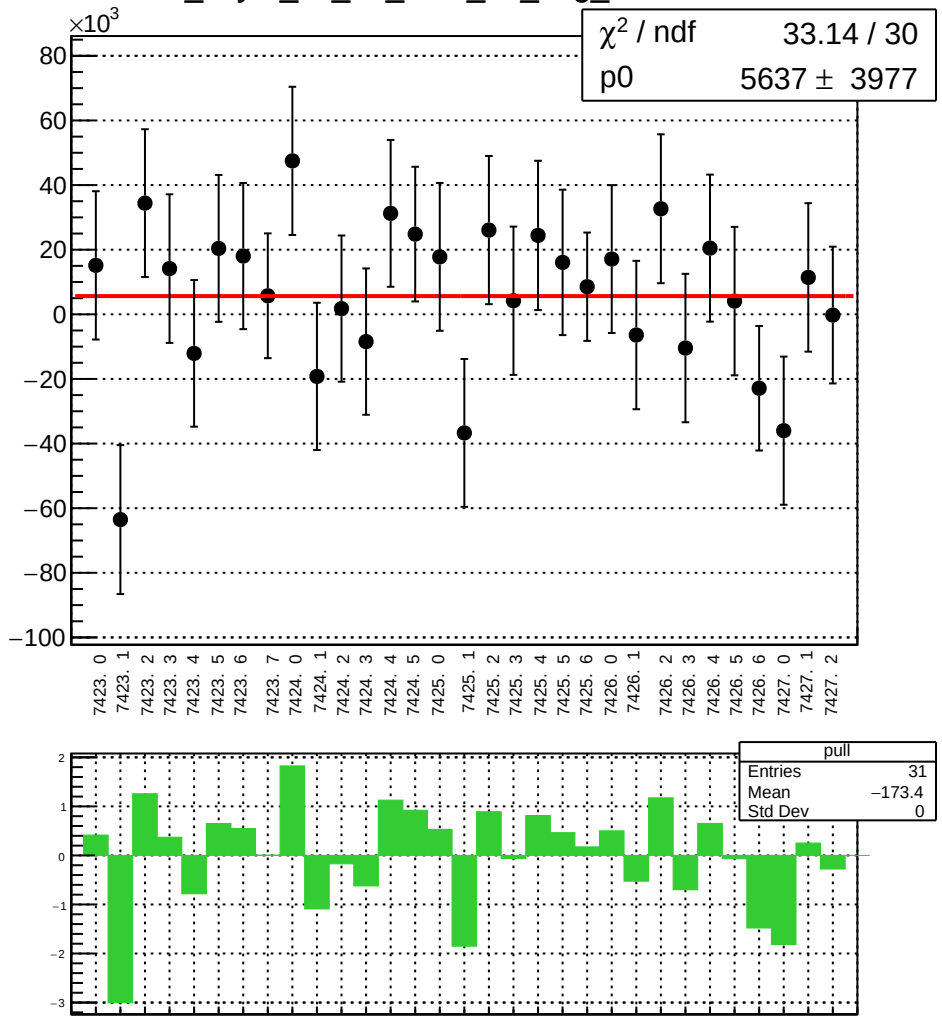

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 33.14 / 30
p0 5636 ± 3977
80
60
40
20
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −173.4
Std Dev 0
2
1
0
−1
−2
−3

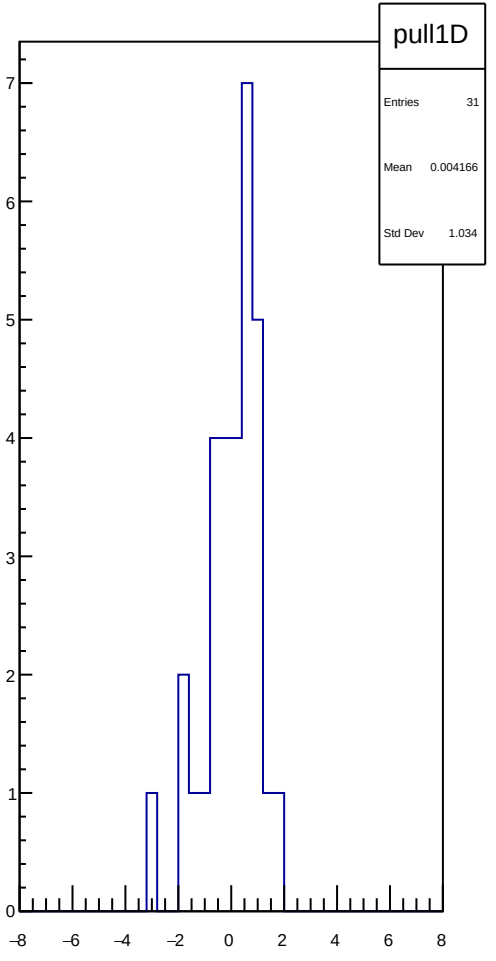

pull1D
Entries 31
Mean 0.00417
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

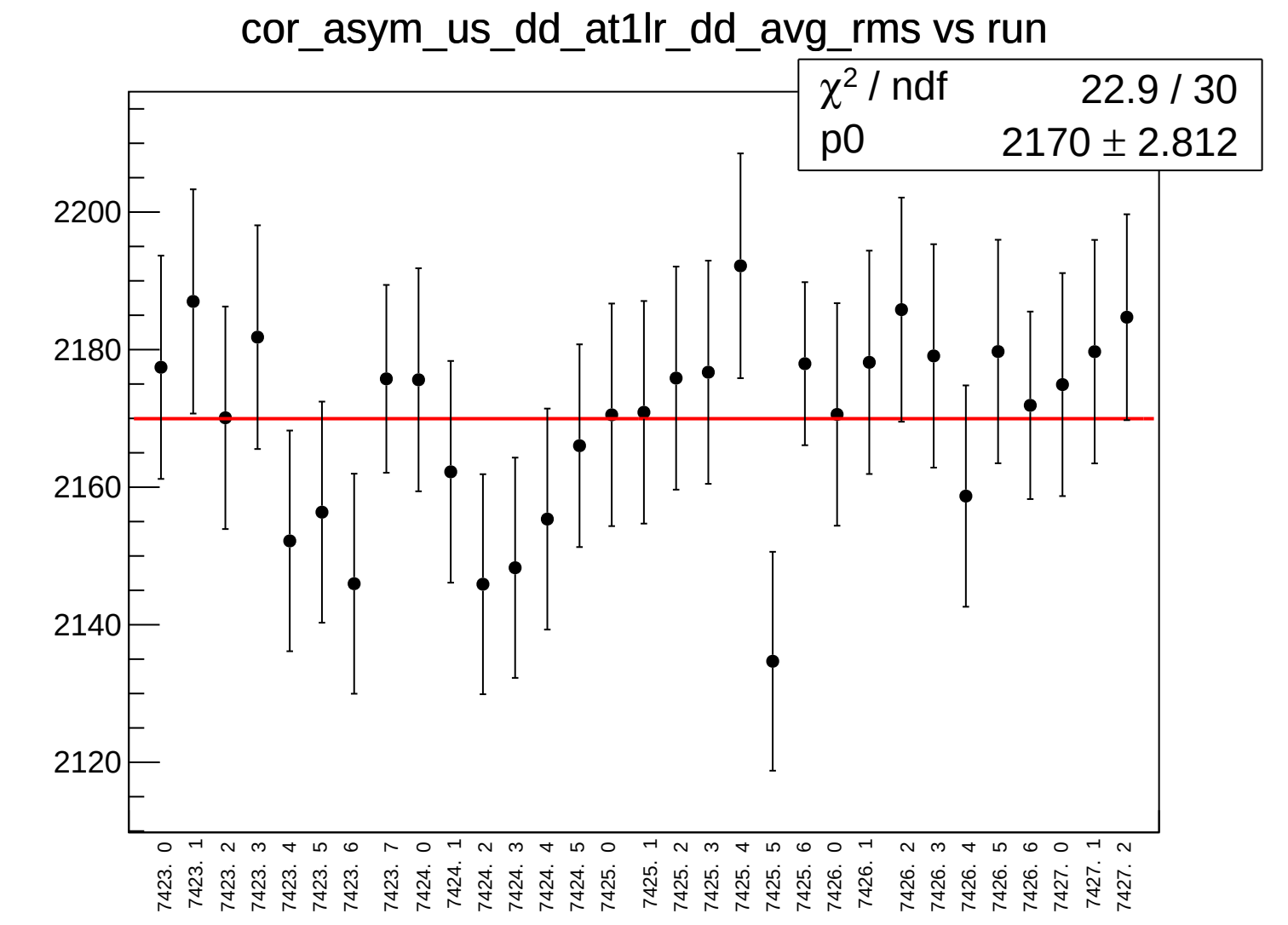

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 22.9 / 30
p0 2170 ± 2.812
2200
2180
2160
2140
2120
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

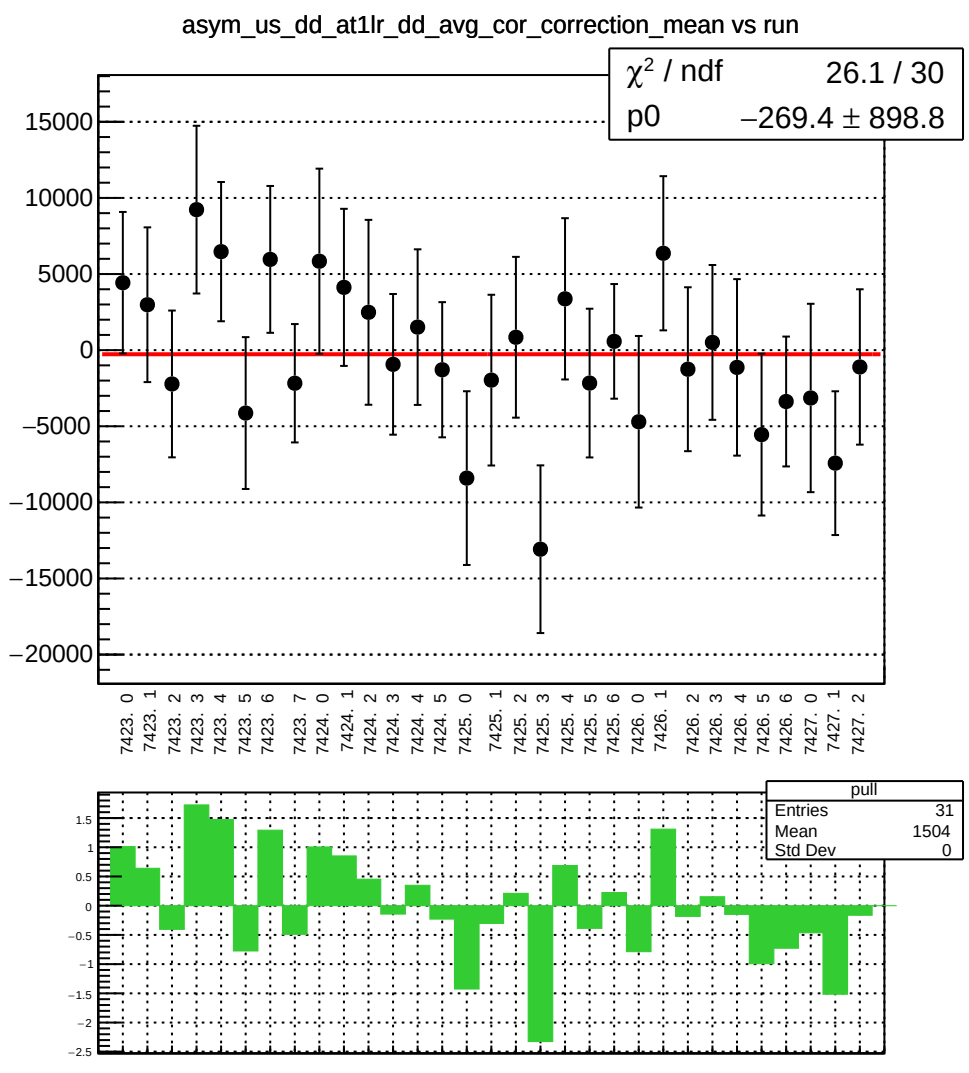

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 26.11 / 30
p0 −267.9 ± 898.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1414
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.002724
Std Dev 0.9178
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

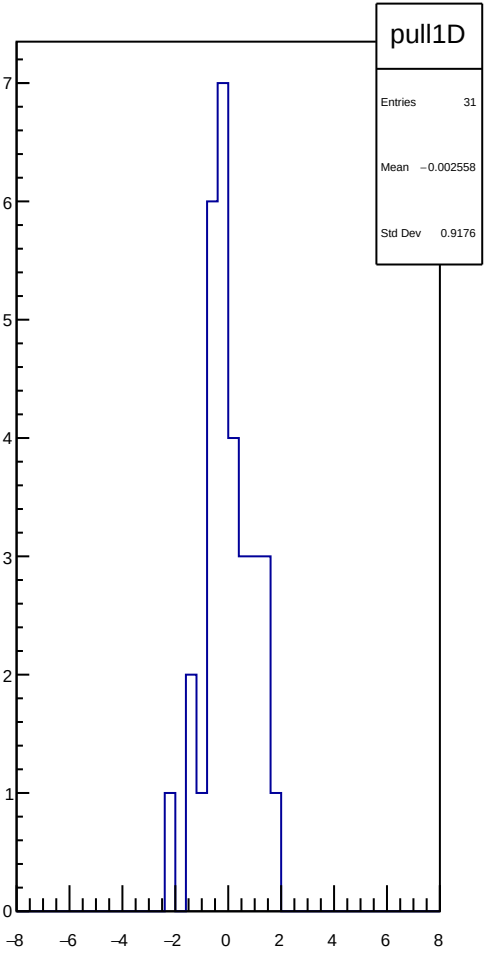

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3877 / 30
p0 488.7 ± 0.6354
600
580
560
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

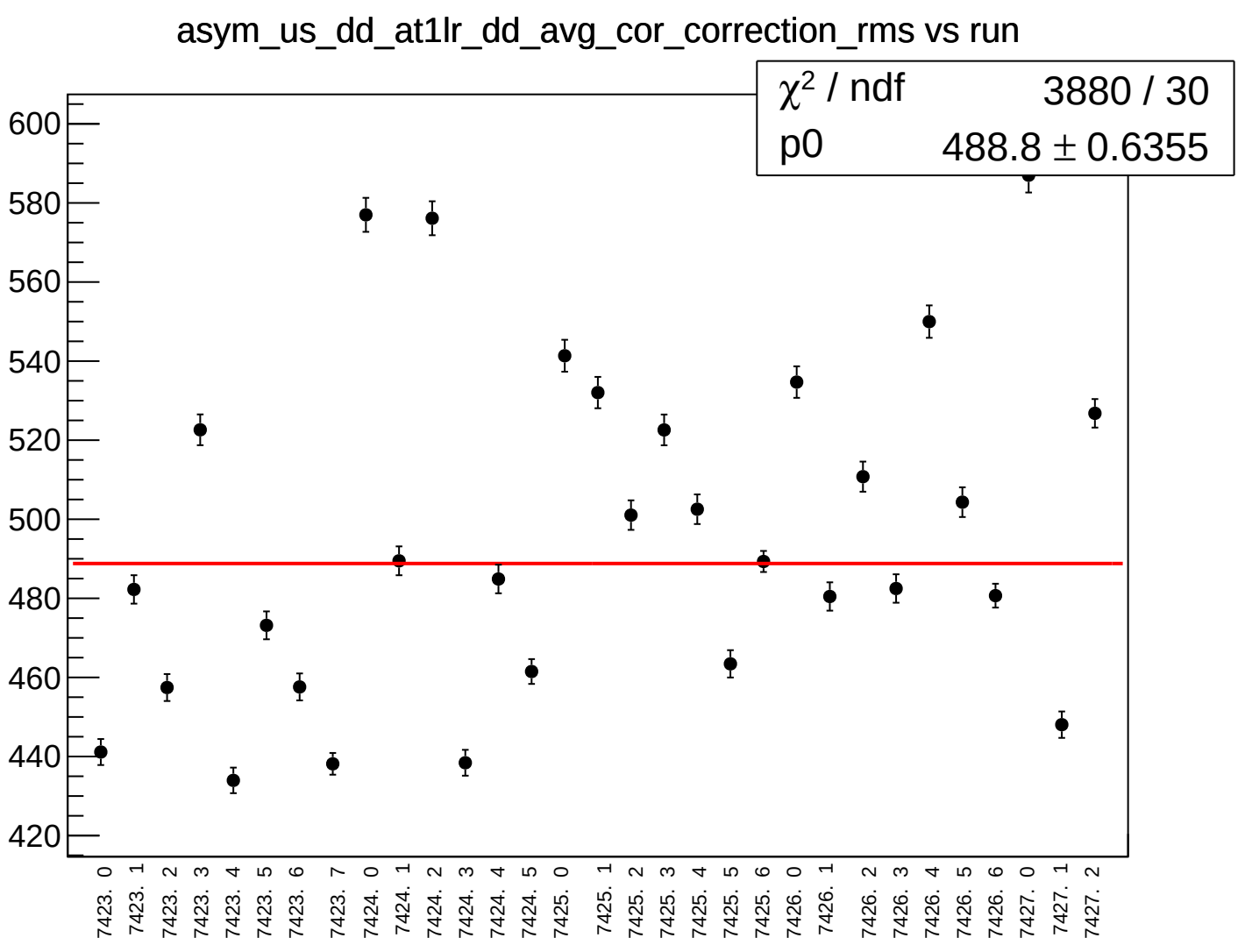

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 33.14 / 30
p0 5637 ± 3977
80
60
40
20
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −173.4
Std Dev 0
2
1
0
−1
−2
−3

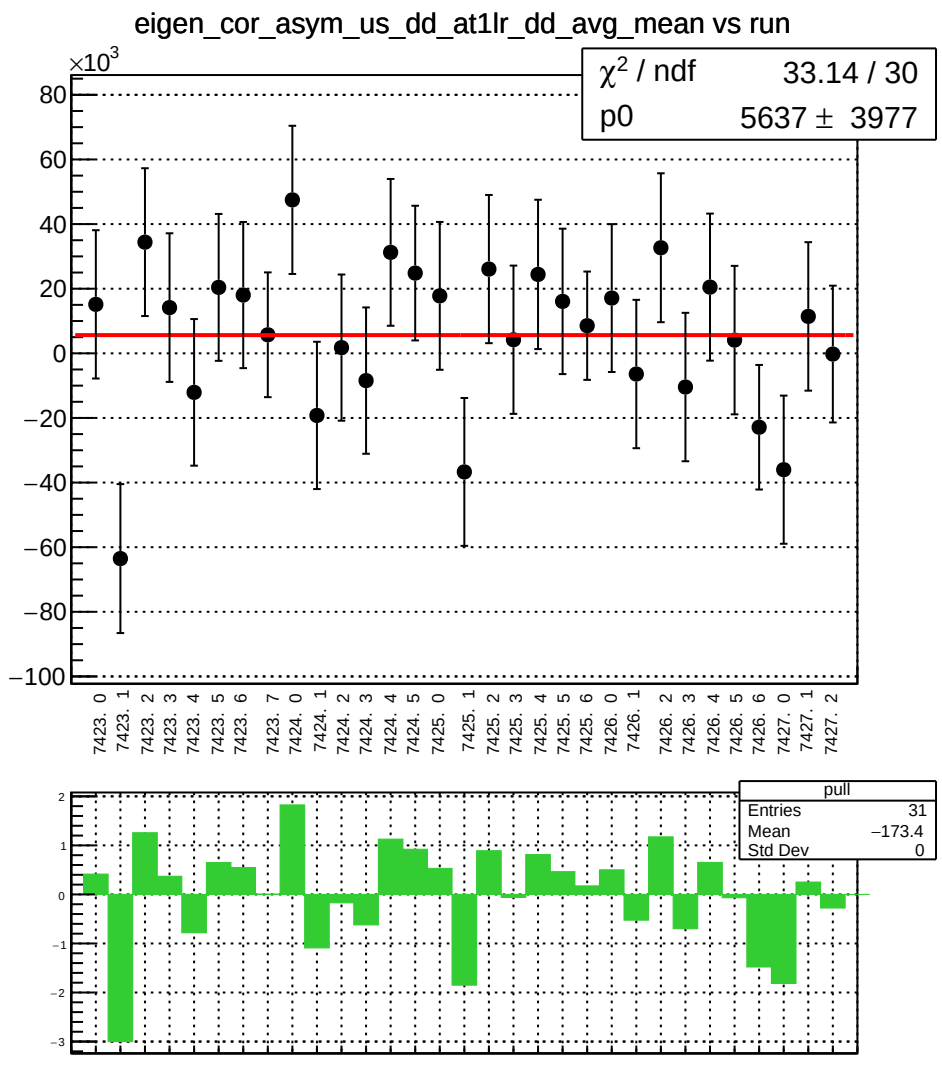

pull1D
Entries 31
Mean 0.004166
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

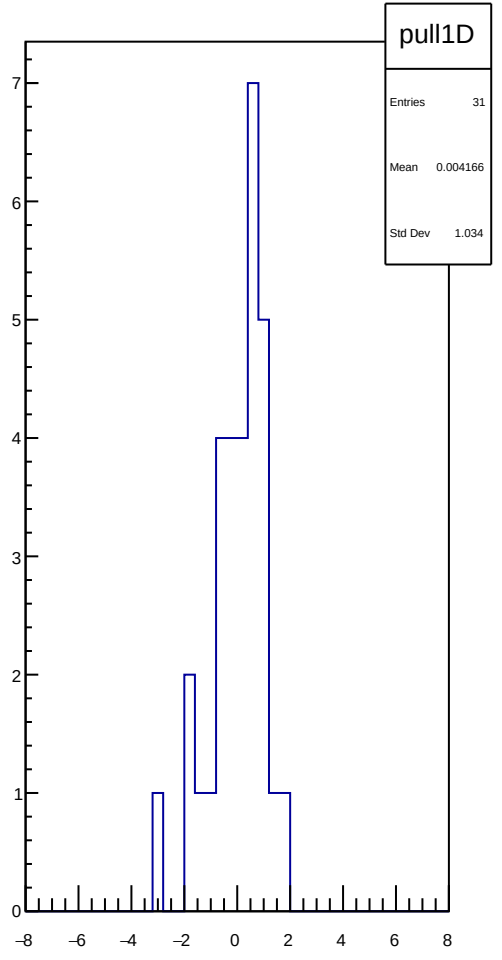

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 22.9 / 30
p0 2170 ± 2.812
2200
2180
2160
2140
2120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

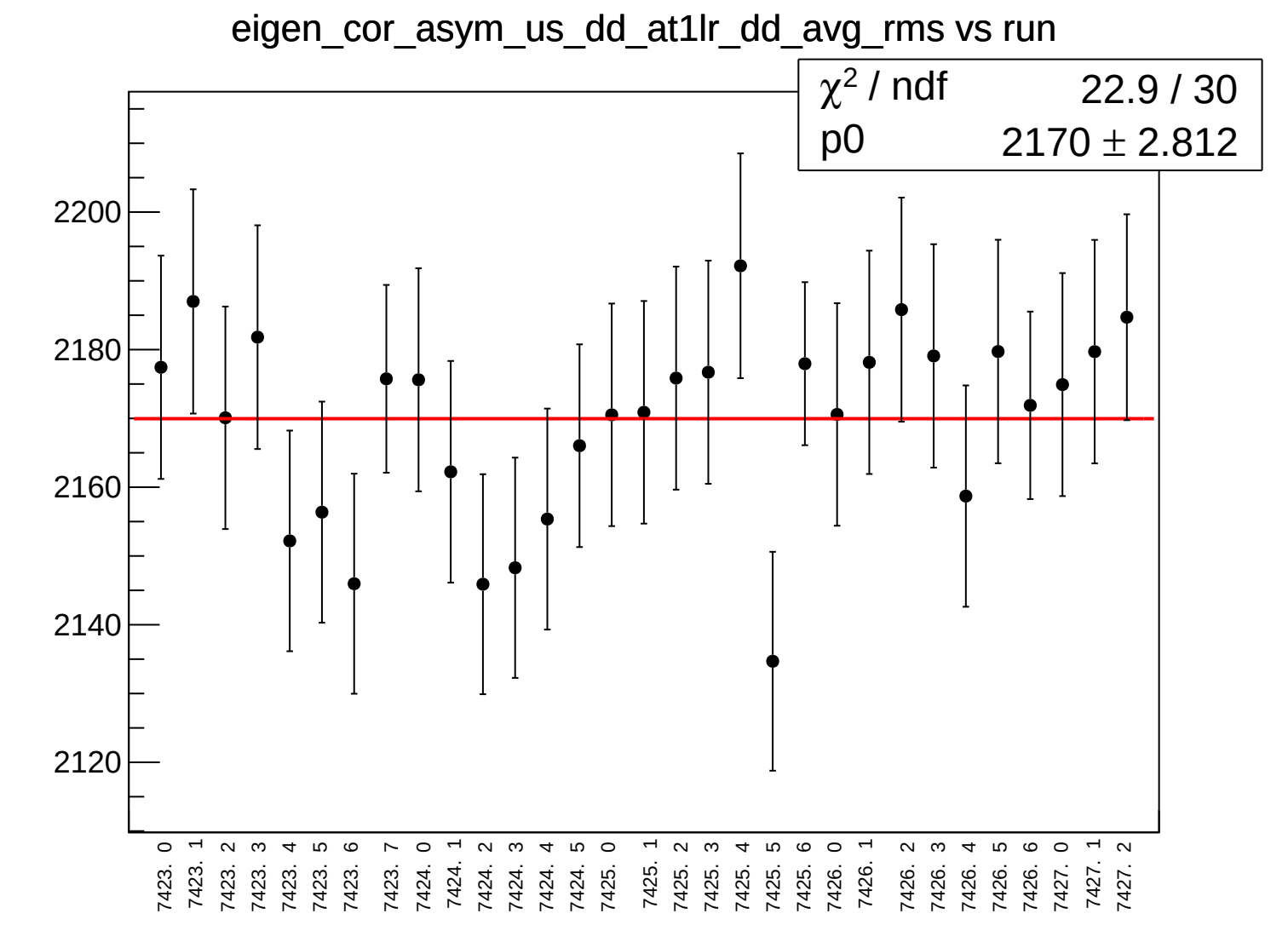

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 26.1 / 30
p0 −269.4 ± 898.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1504
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

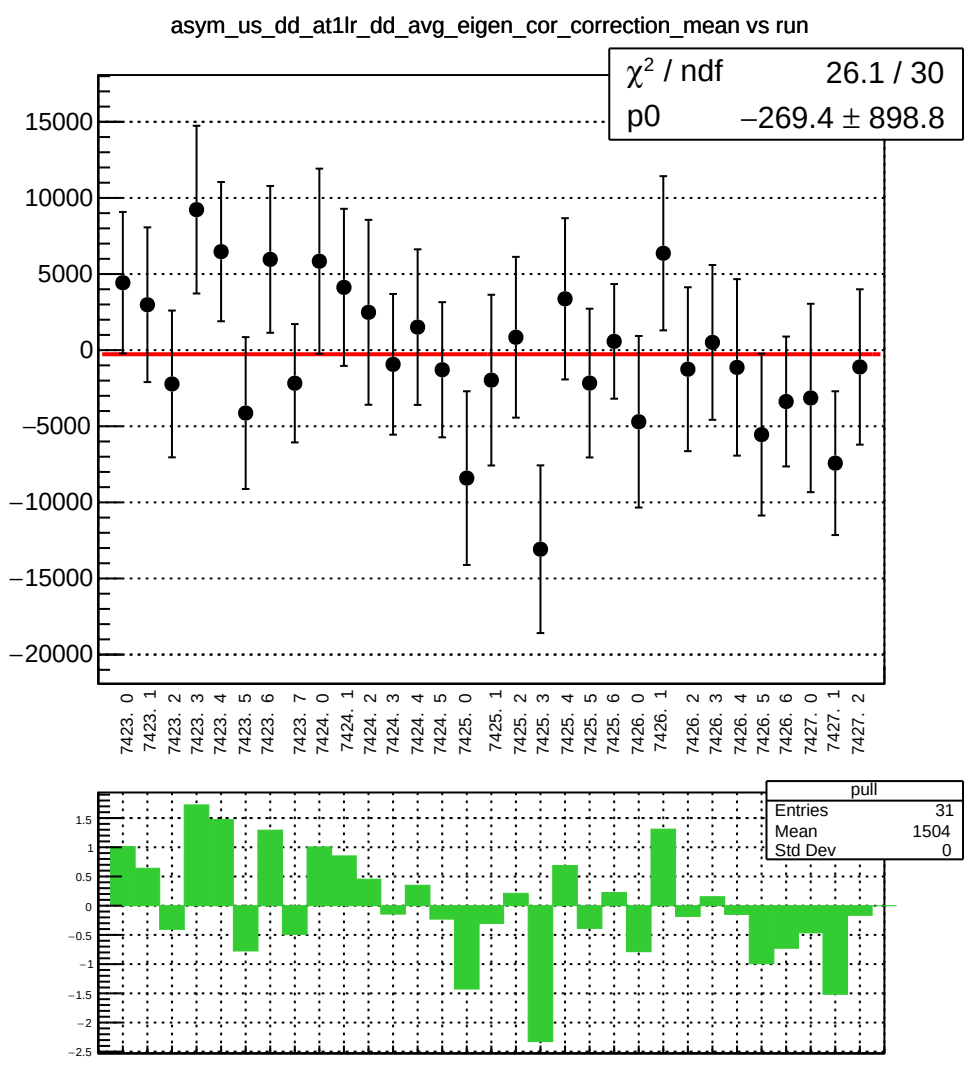

pull1D
Entries 31
Mean −0.002558
Std Dev 0.9176
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

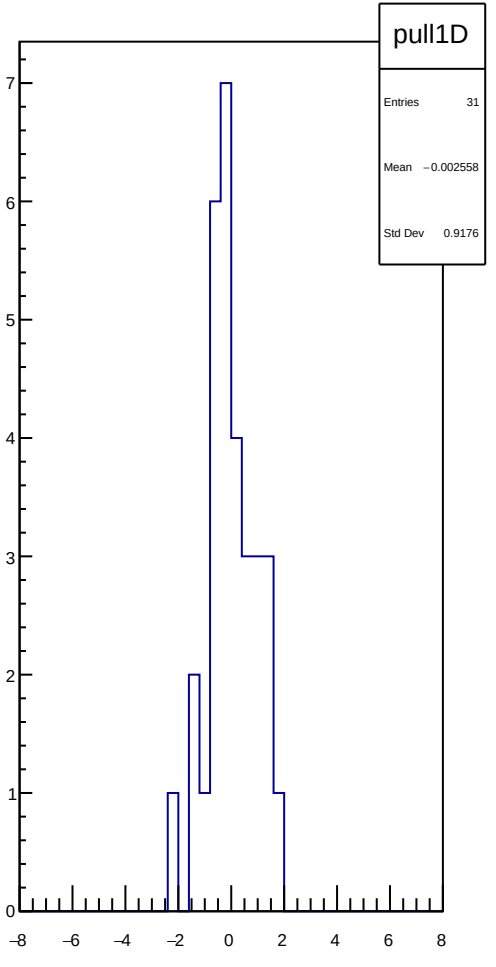

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3880 / 30
p0 488.8 ± 0.6355
600
580
560
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

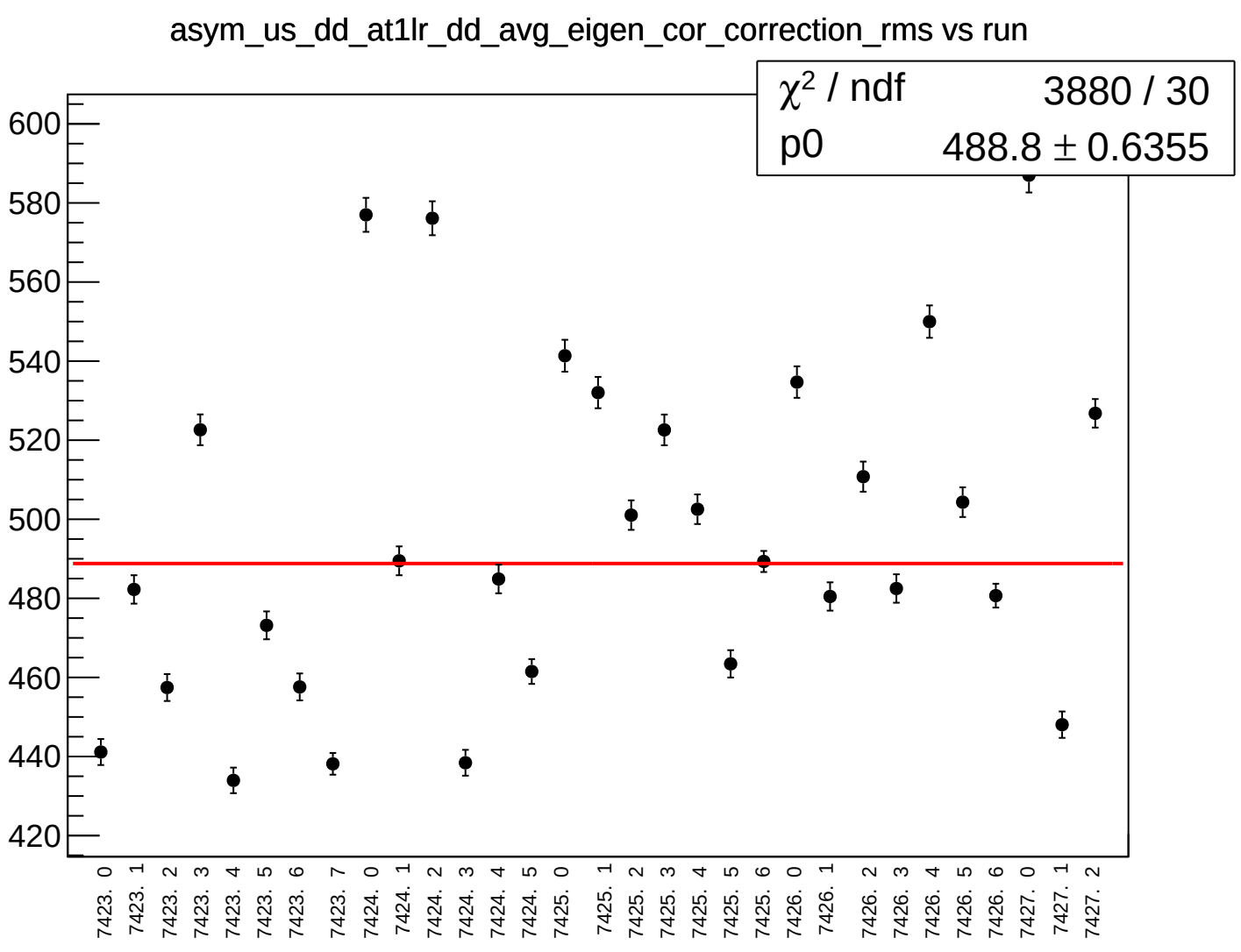

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 33.14 / 30
p0 5637 ± 3977
80
60
40
20
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −173.4
Std Dev 0
2
1
0
−1
−2
−3

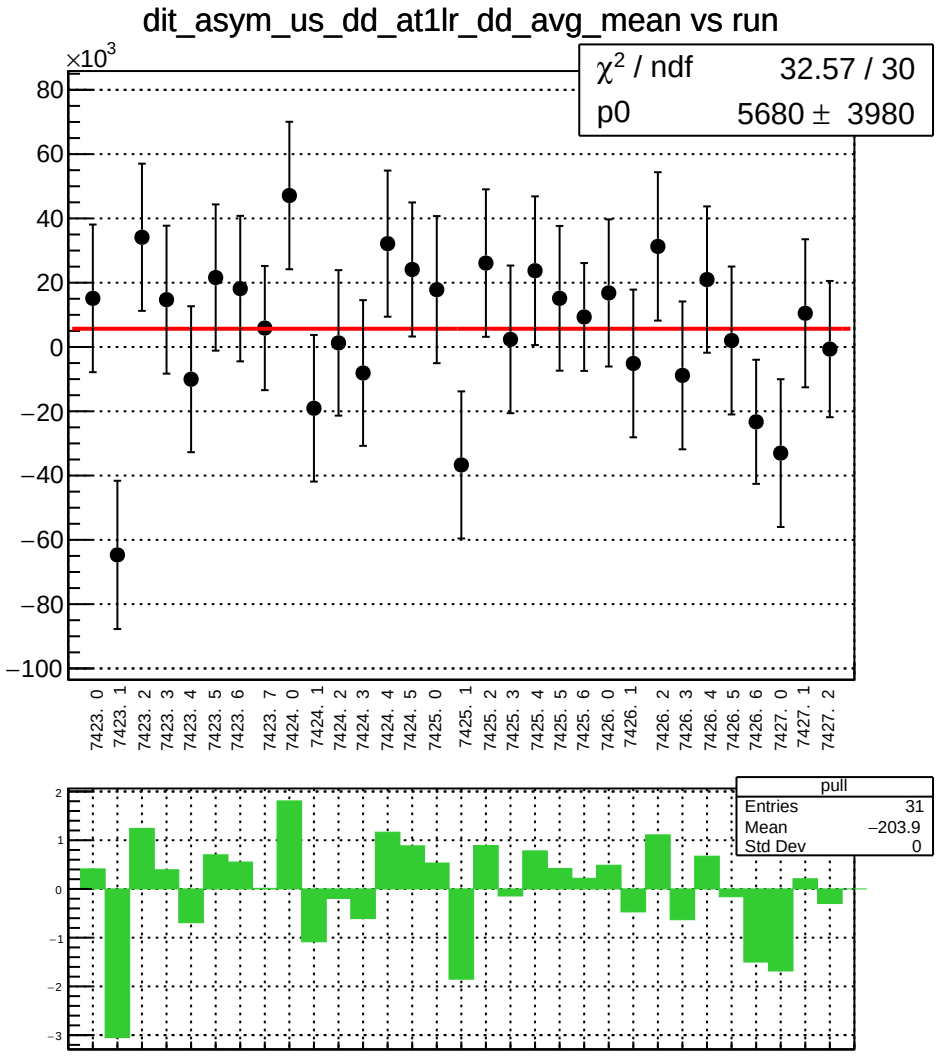

pull1D
Entries 31
Mean 0.004166
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

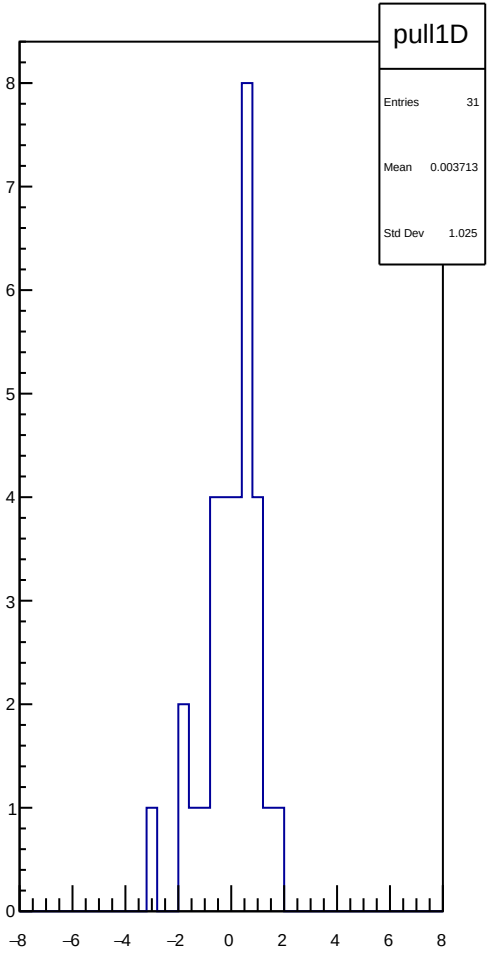

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 22.9 / 30
p0 2170 ± 2.812
2200
2180
2160
2140
2120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

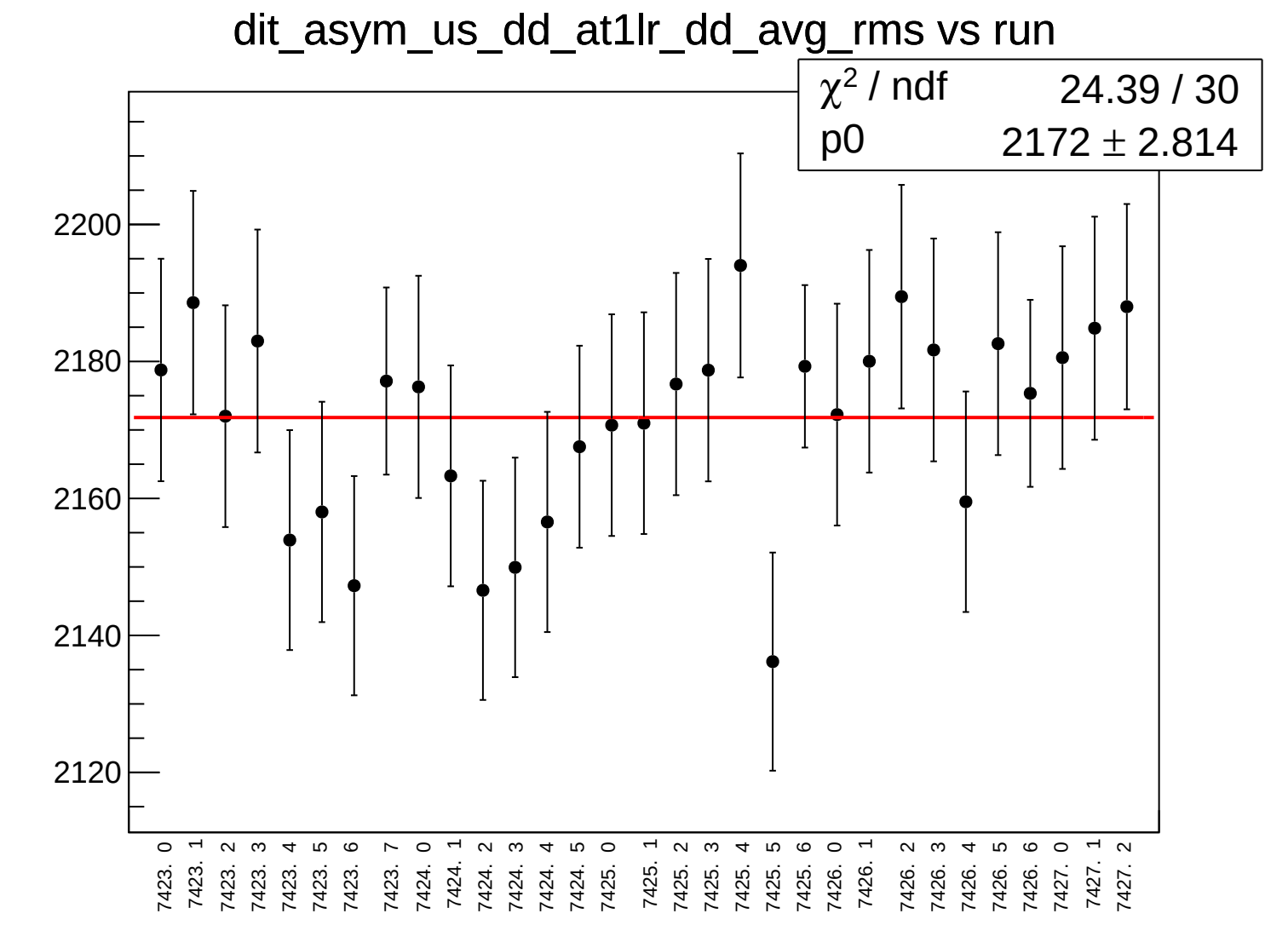

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 26.1 / 30
p0 −269.4 ± 898.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1504
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

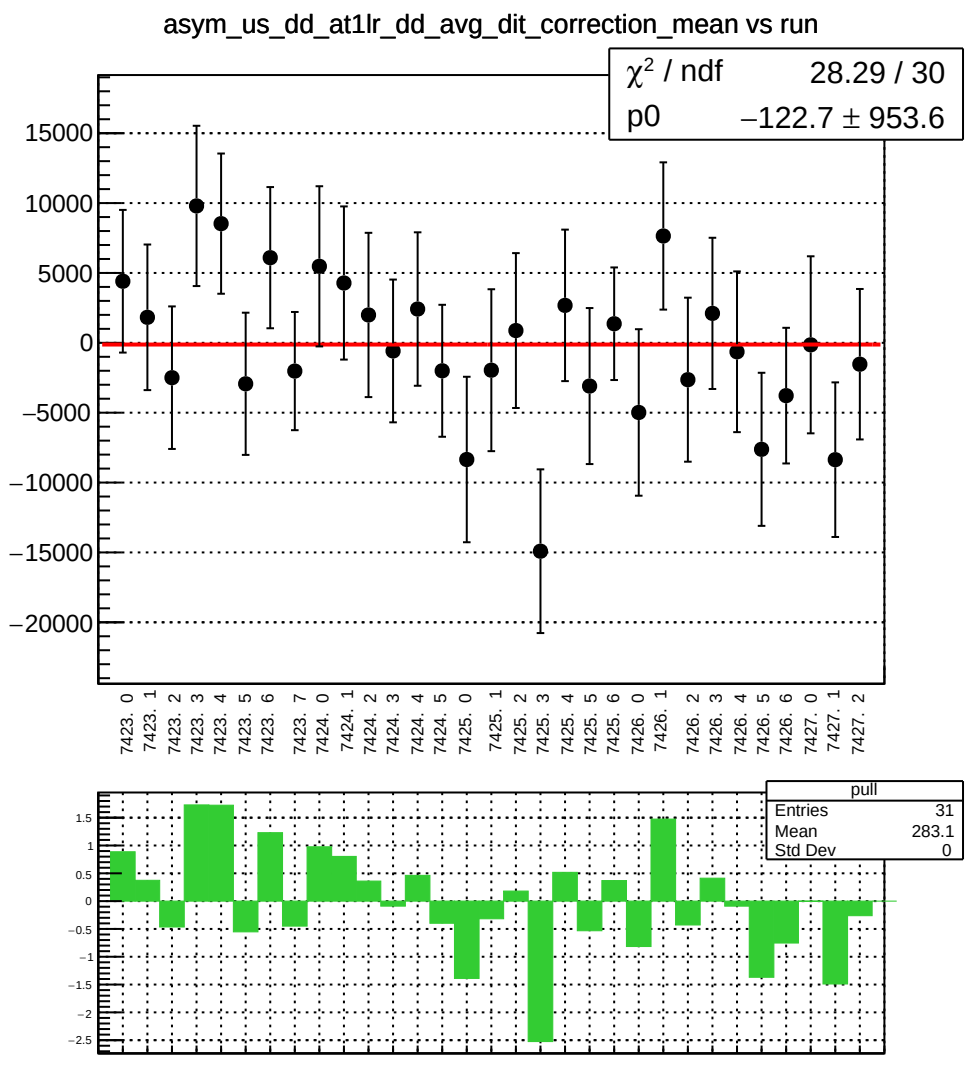

pull1D
Entries 31
Mean −0.002558
Std Dev 0.9176
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

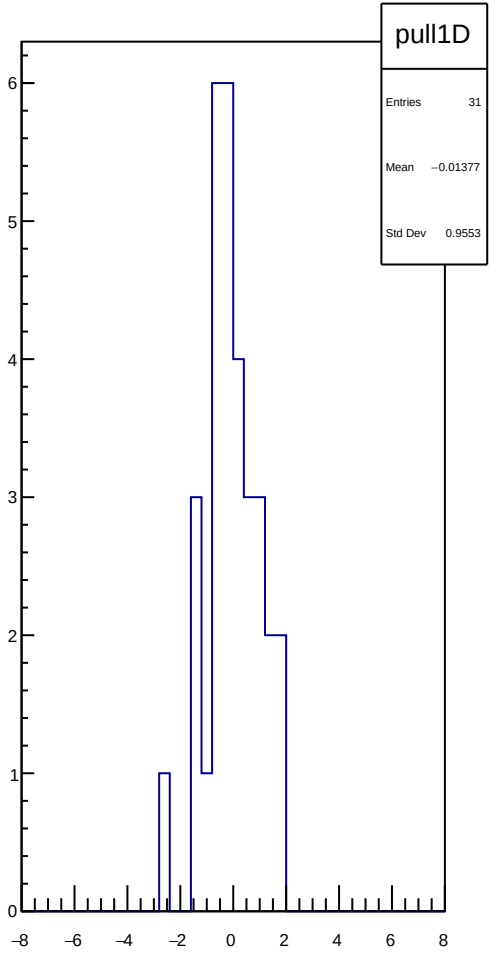

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3880 / 30
p0 488.8 ± 0.6355
600
580
560
540
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

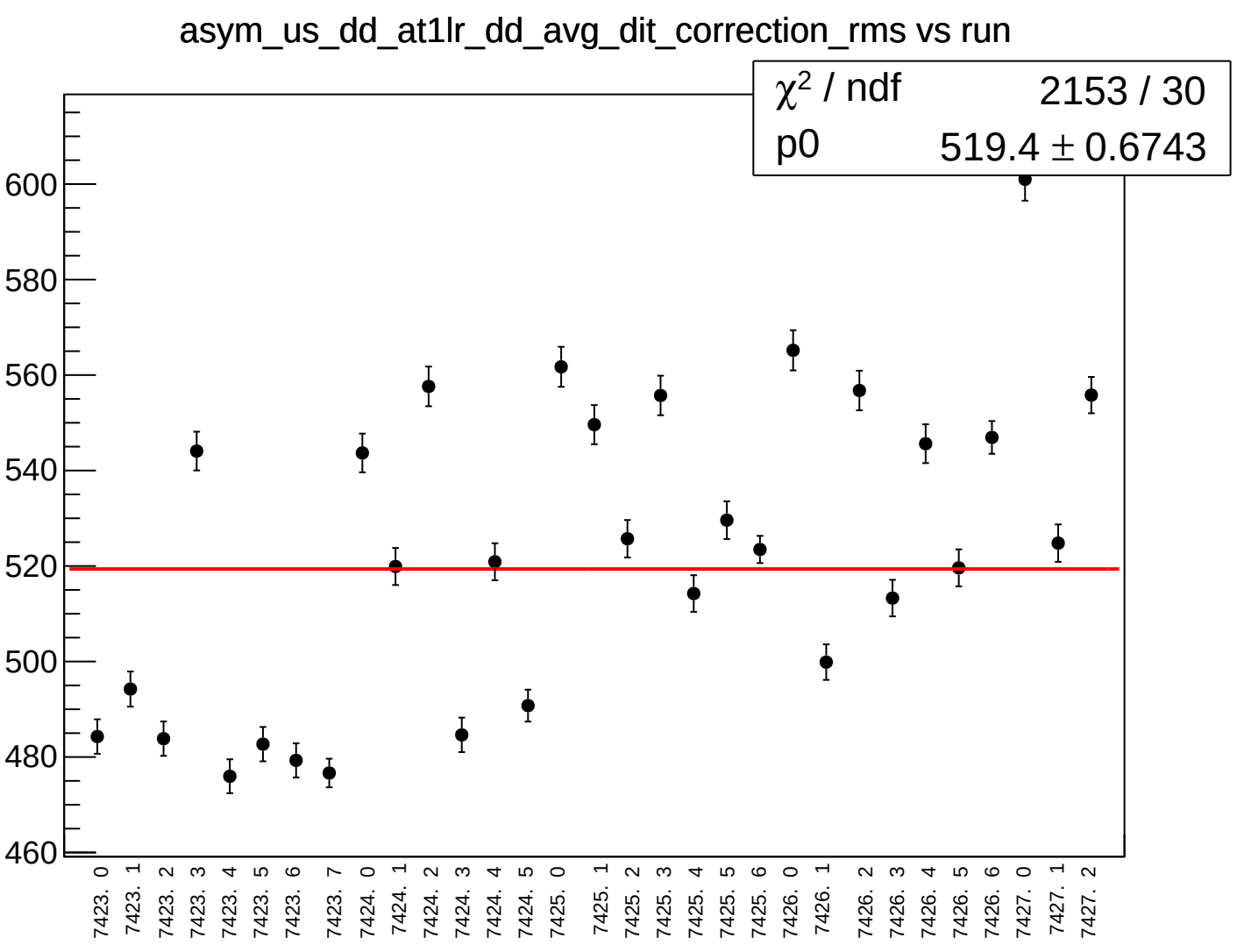

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 32.57 / 30
p0 5680 ± 3980
×10³
pull
Entries 31
Mean −203.9
Std Dev 0

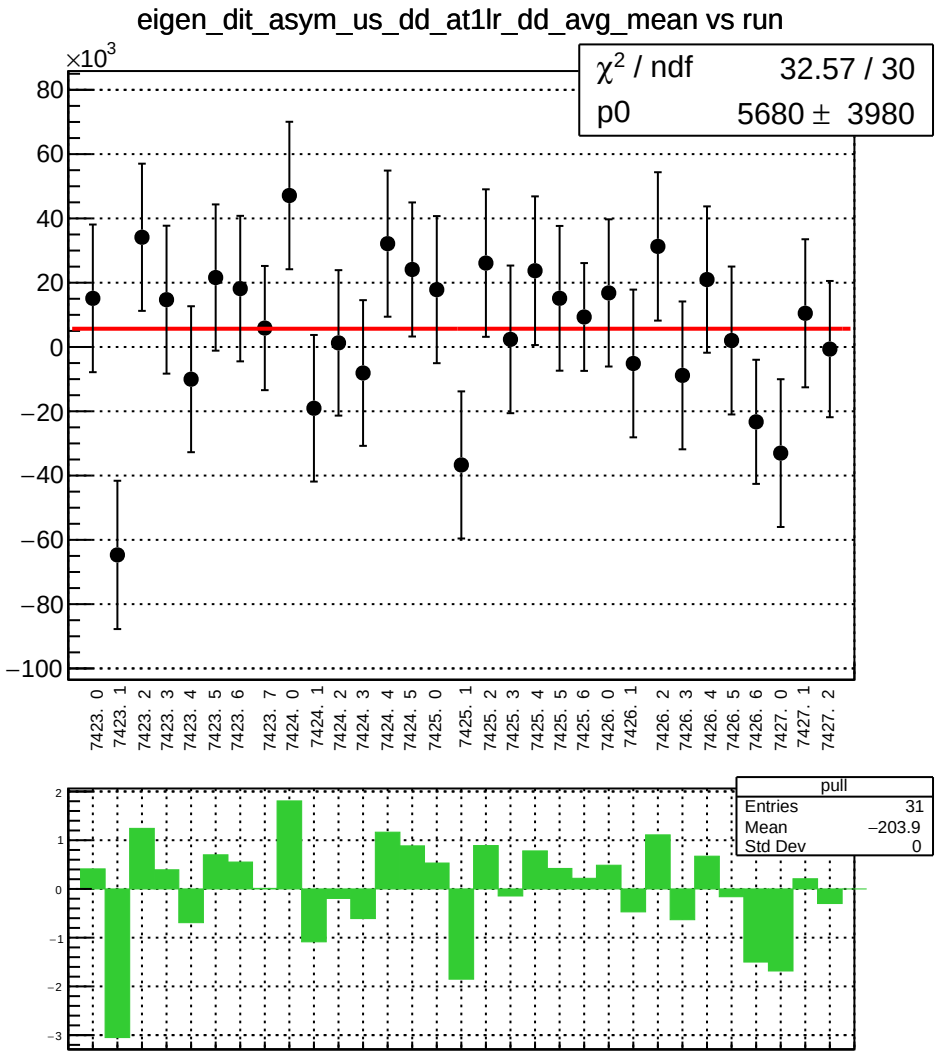

pull1D
Entries 31
Mean 0.003713
Std Dev 1.025

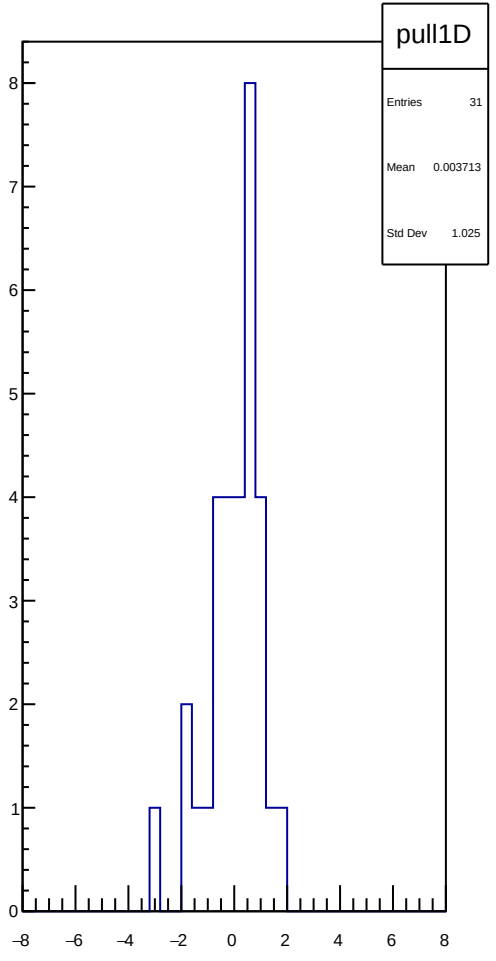

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 24.39 / 30
p0 2172 ± 2.814
2200
2180
2160
2140
2120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

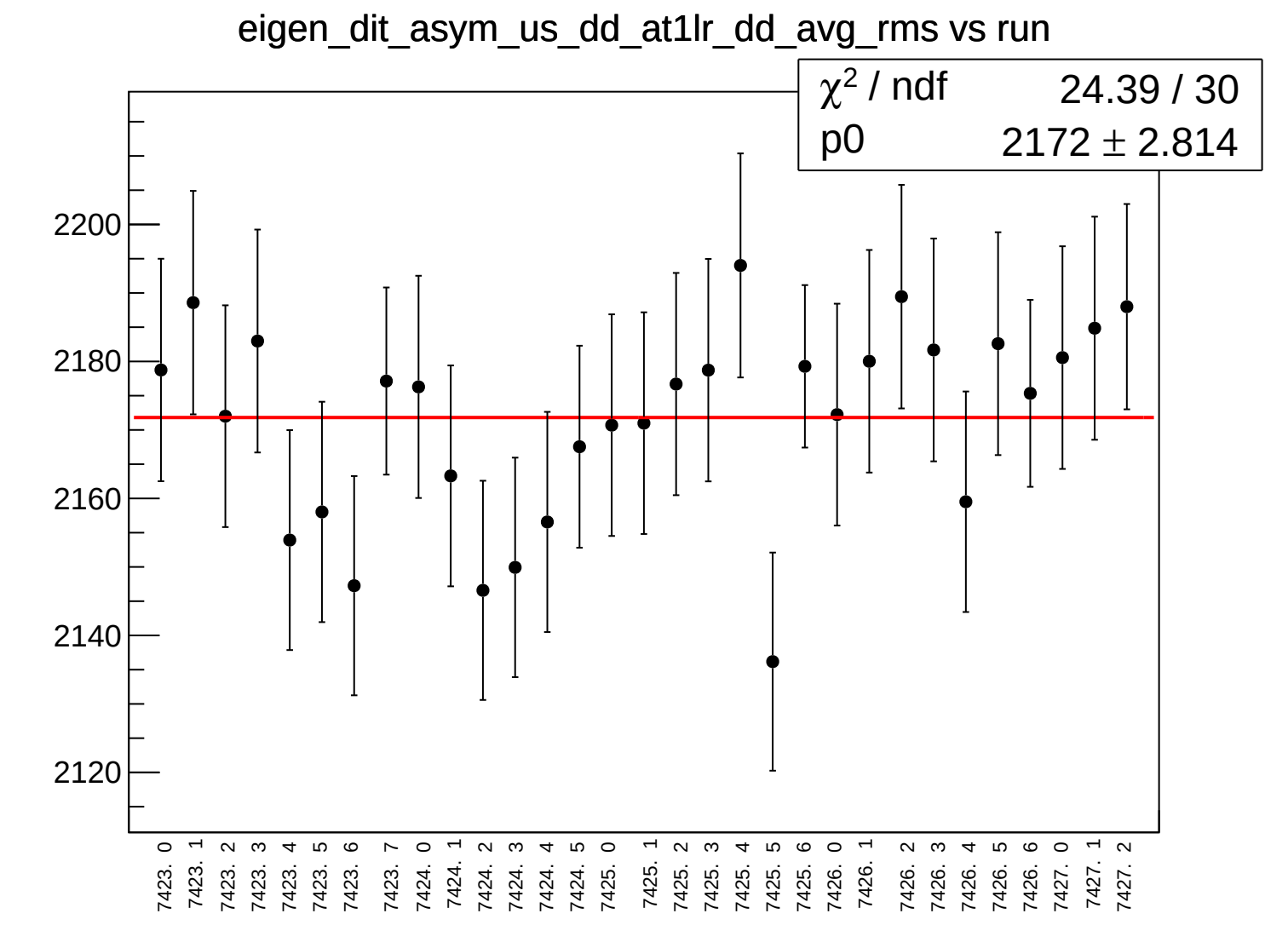

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 28.29 / 30
p0 −122.7 ± 953.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 283.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

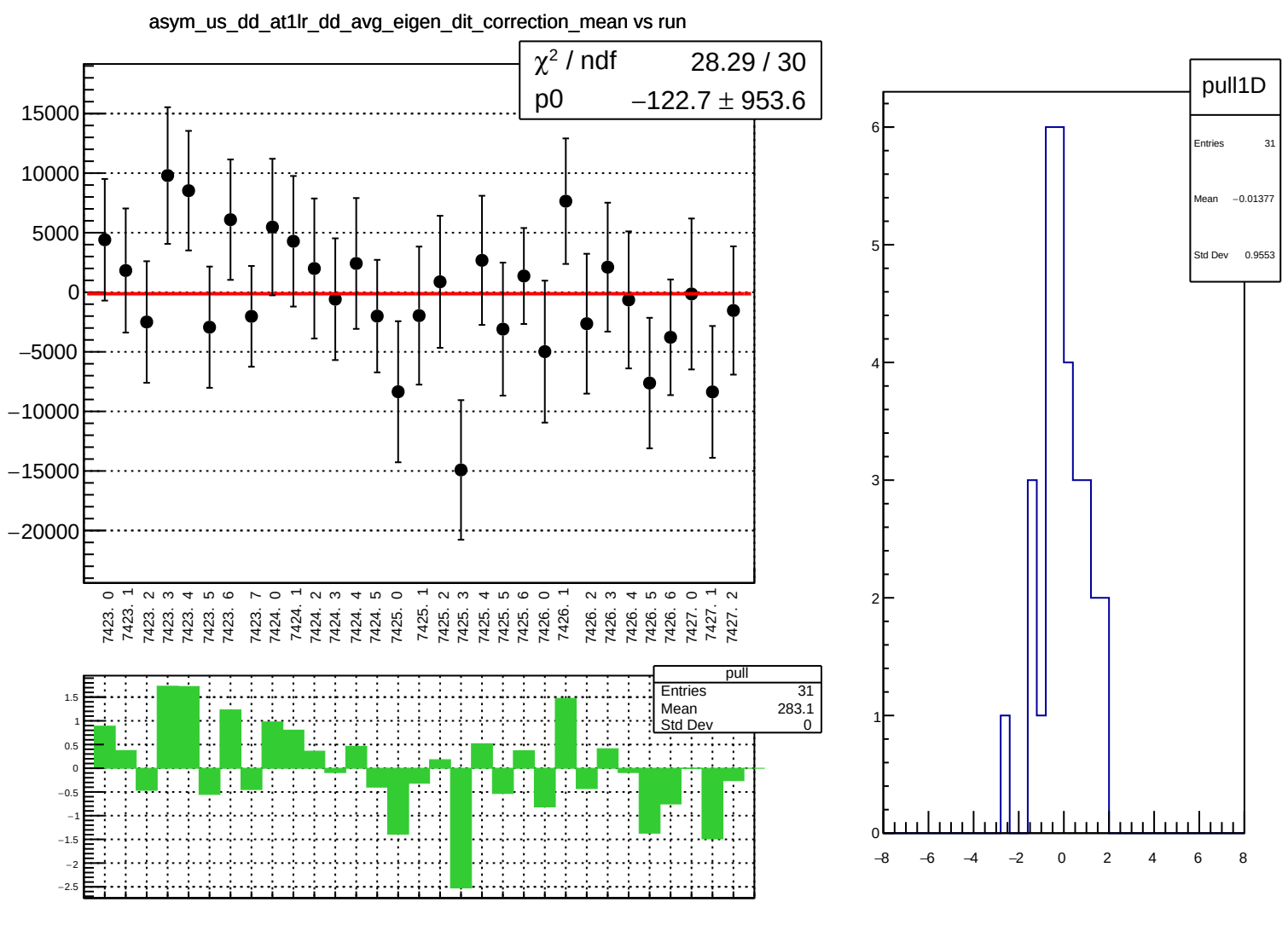

pull1D
Entries 31
Mean −0.01377
Std Dev 0.9553
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

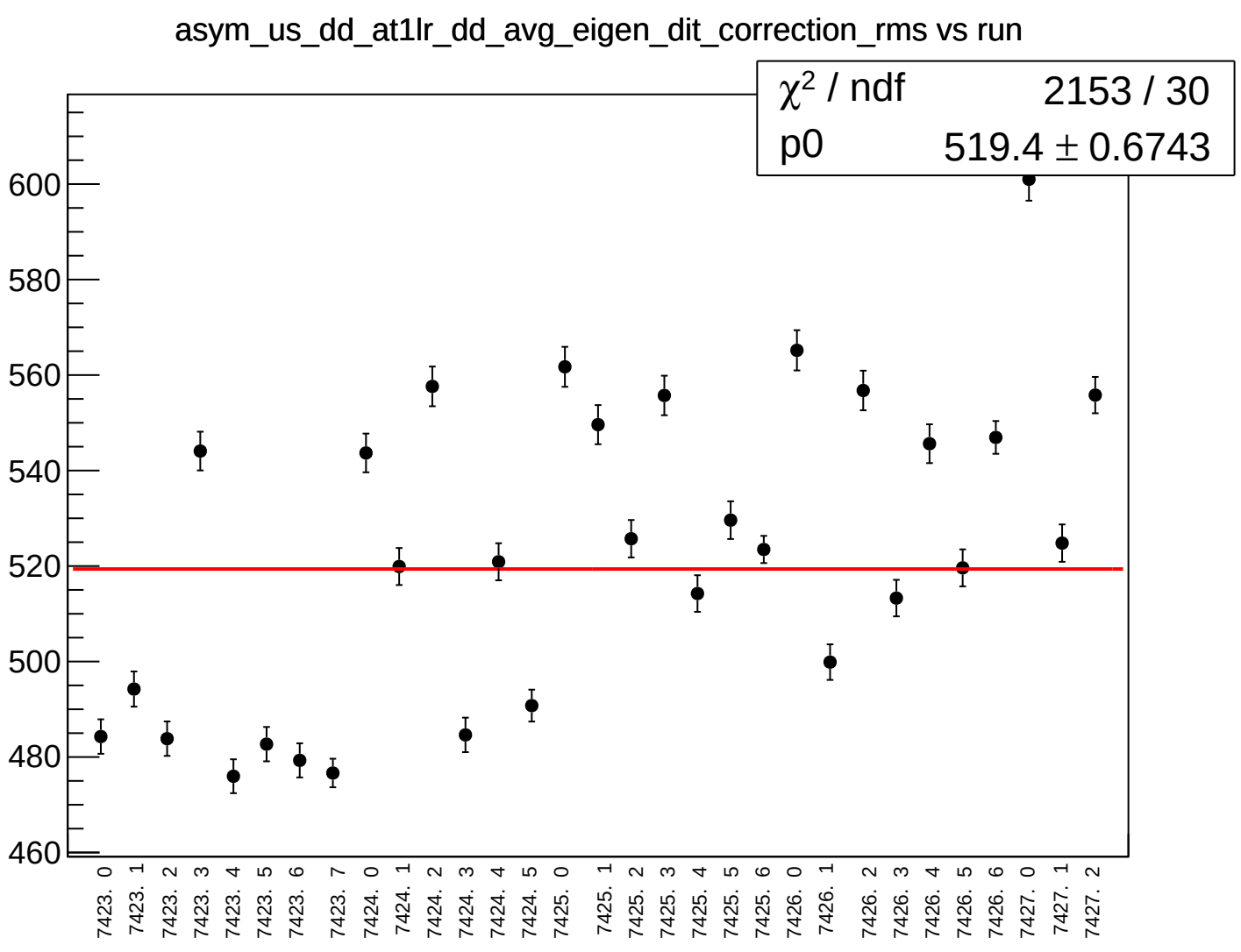

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2153 / 30
p0 519.4 ± 0.6743
600
580
560
540
520
500
480
460
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

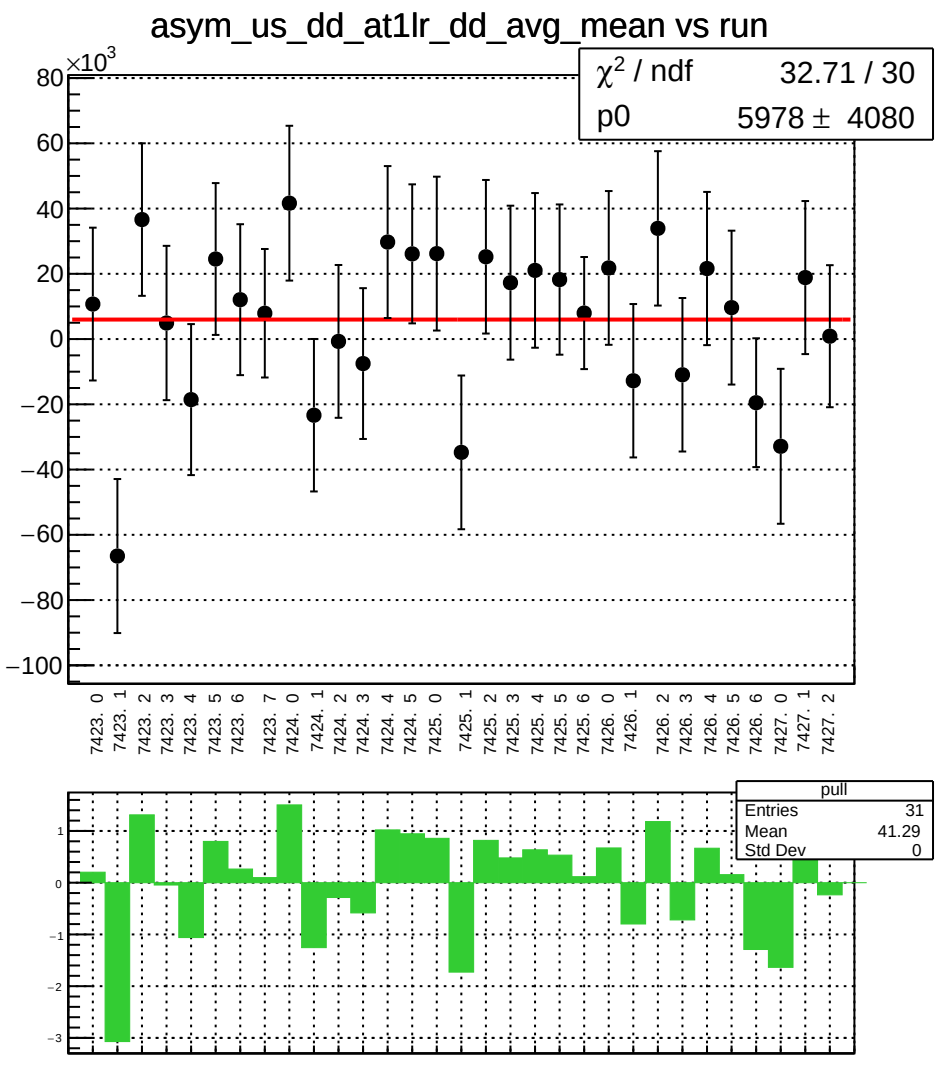

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 32.57 / 30
p0 5680 ± 3980
80
60
40
20
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −203.9
Std Dev 0
2
1
0
−1
−2
−3

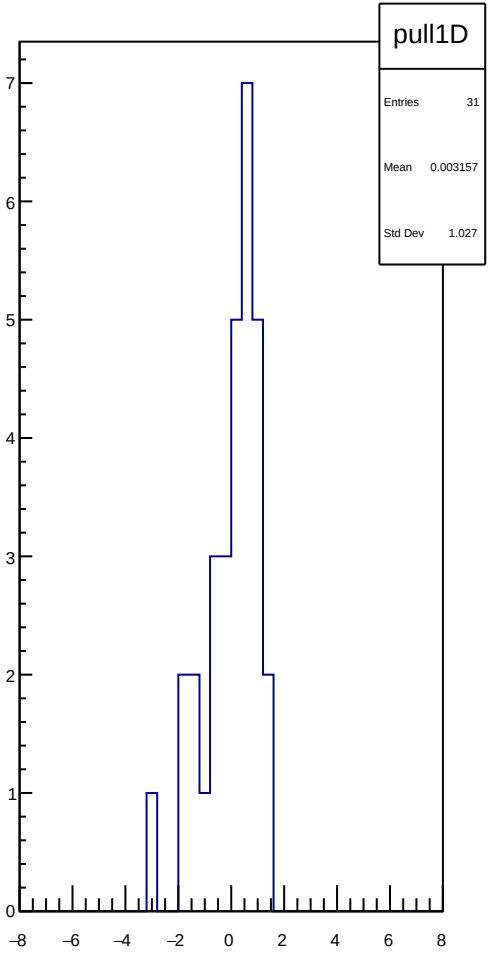

pull1D
Entries 31
Mean 0.003713
Std Dev 1.025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

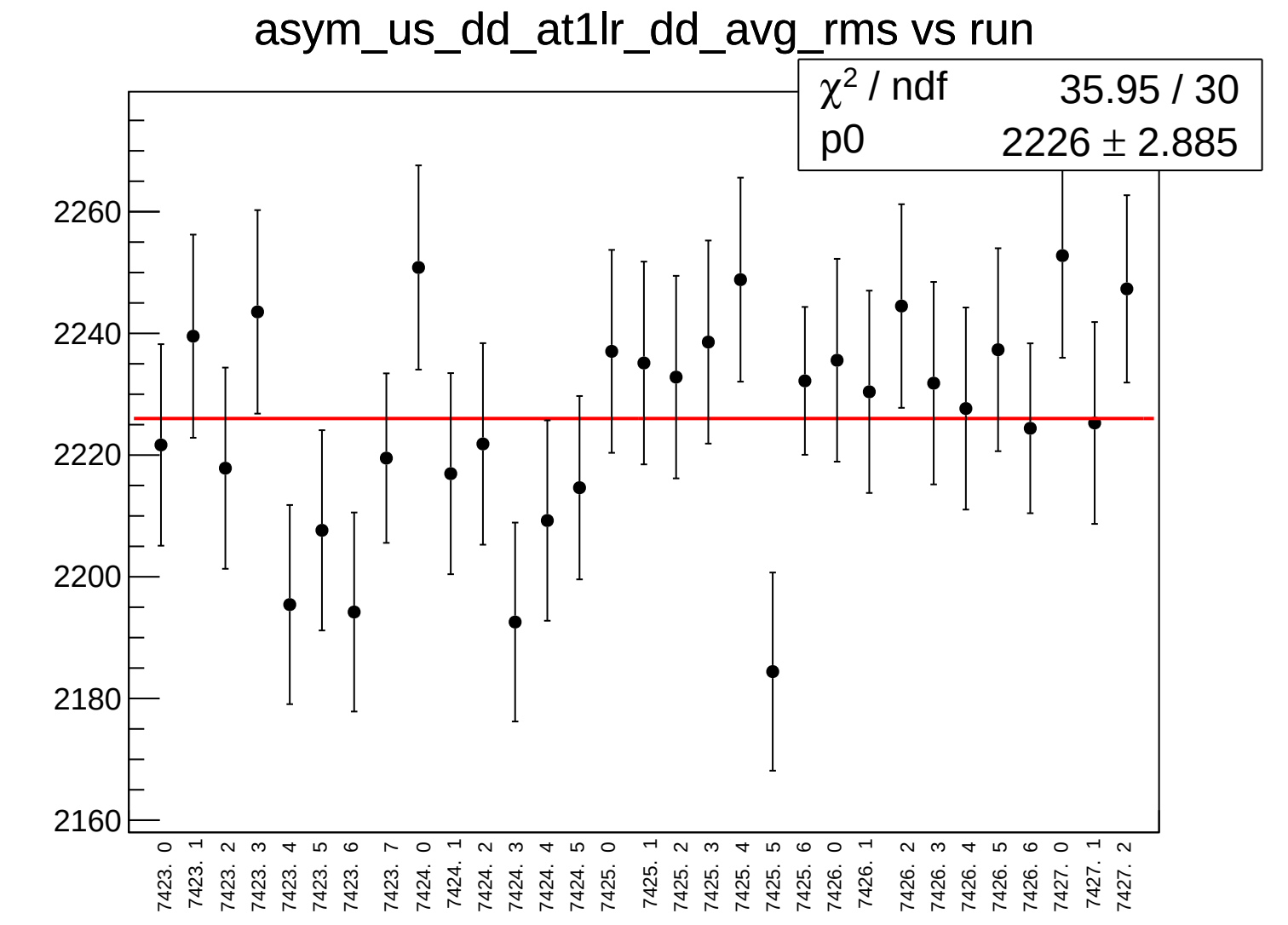

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 24.39 / 30
p0 2172 ± 2.814
2200
2180
2160
2140
2120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

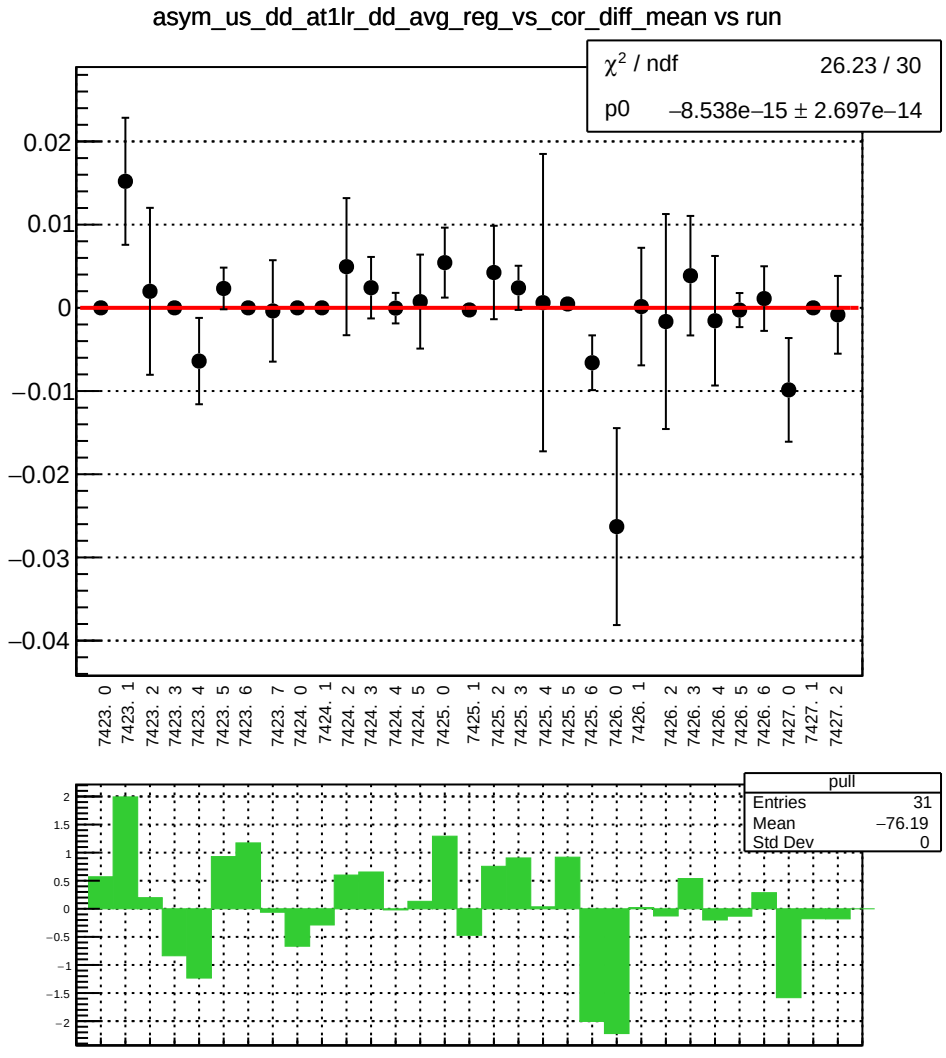

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 28.29 / 30
p0 −122.7 ± 953.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 283.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01377
Std Dev 0.9553
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

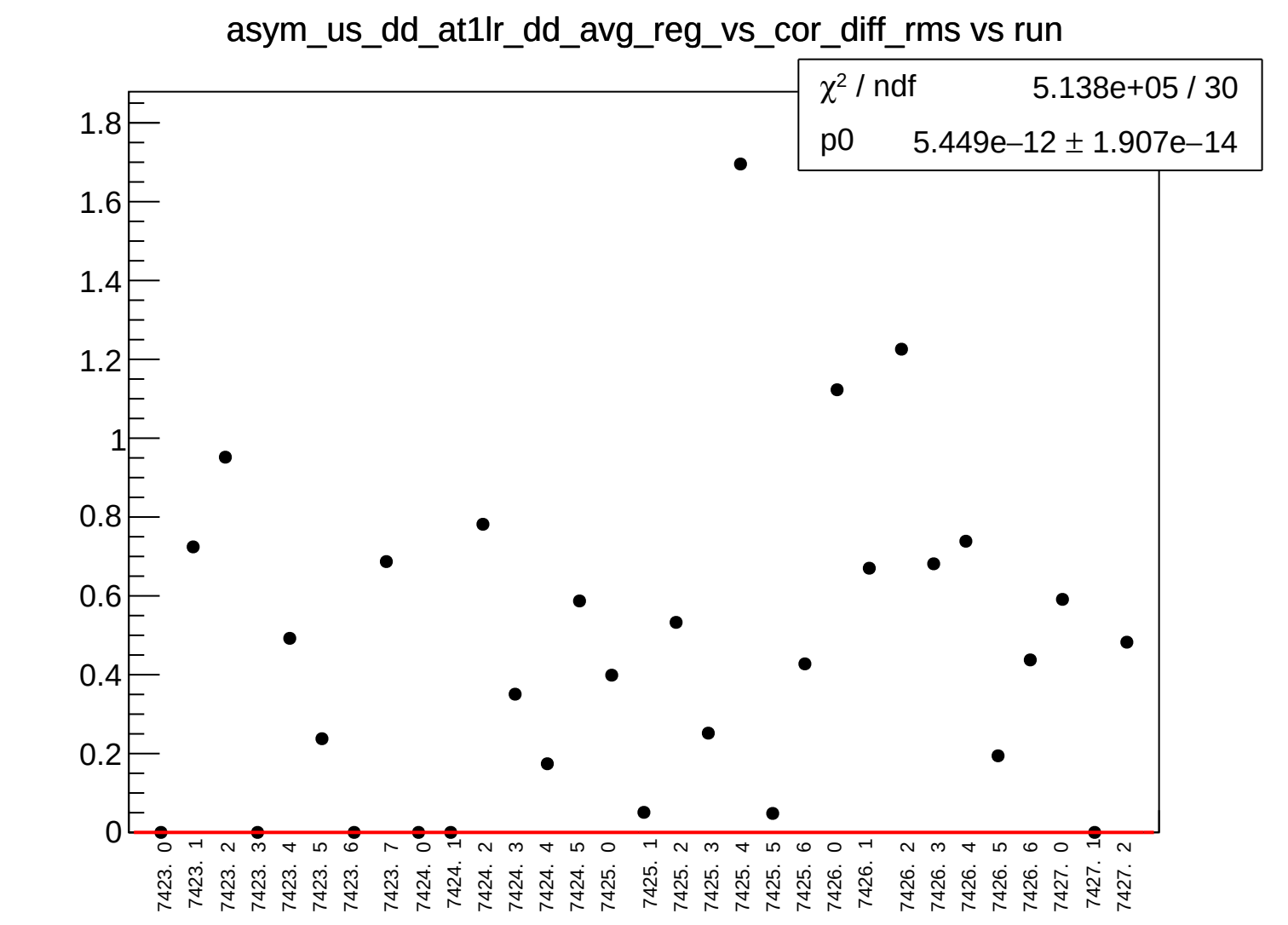

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2153 / 30
p0 519.4 ± 0.6743
600
580
560
540
520
500
480
460
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

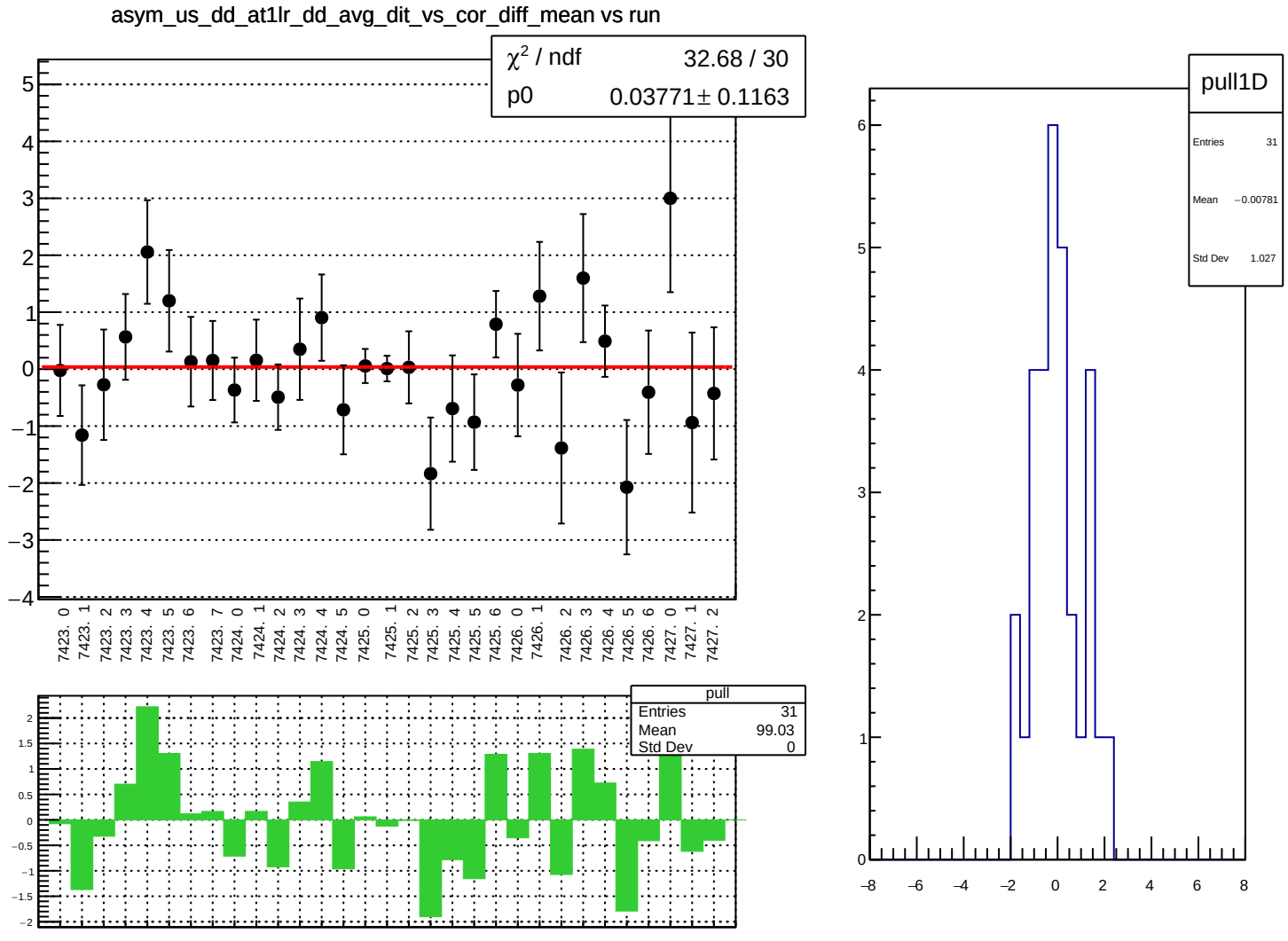

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 32.71 / 30
p0 5978 ± 4080
×10³
80
60
40
20
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 41.29
Std Dev 0
1
0
−1
−2
−3

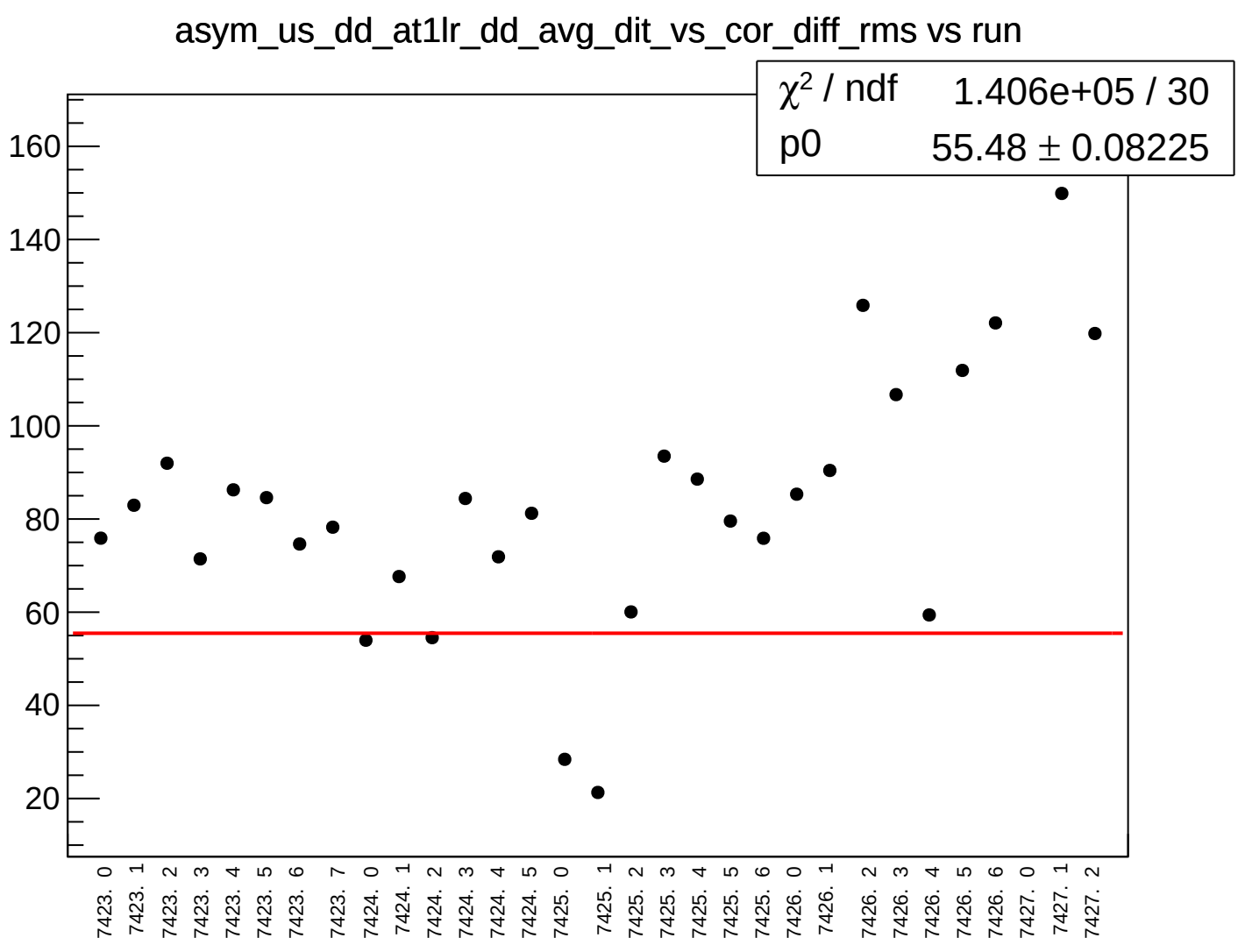

pull1D
Entries 31
Mean 0.003157
Std Dev 1.027
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

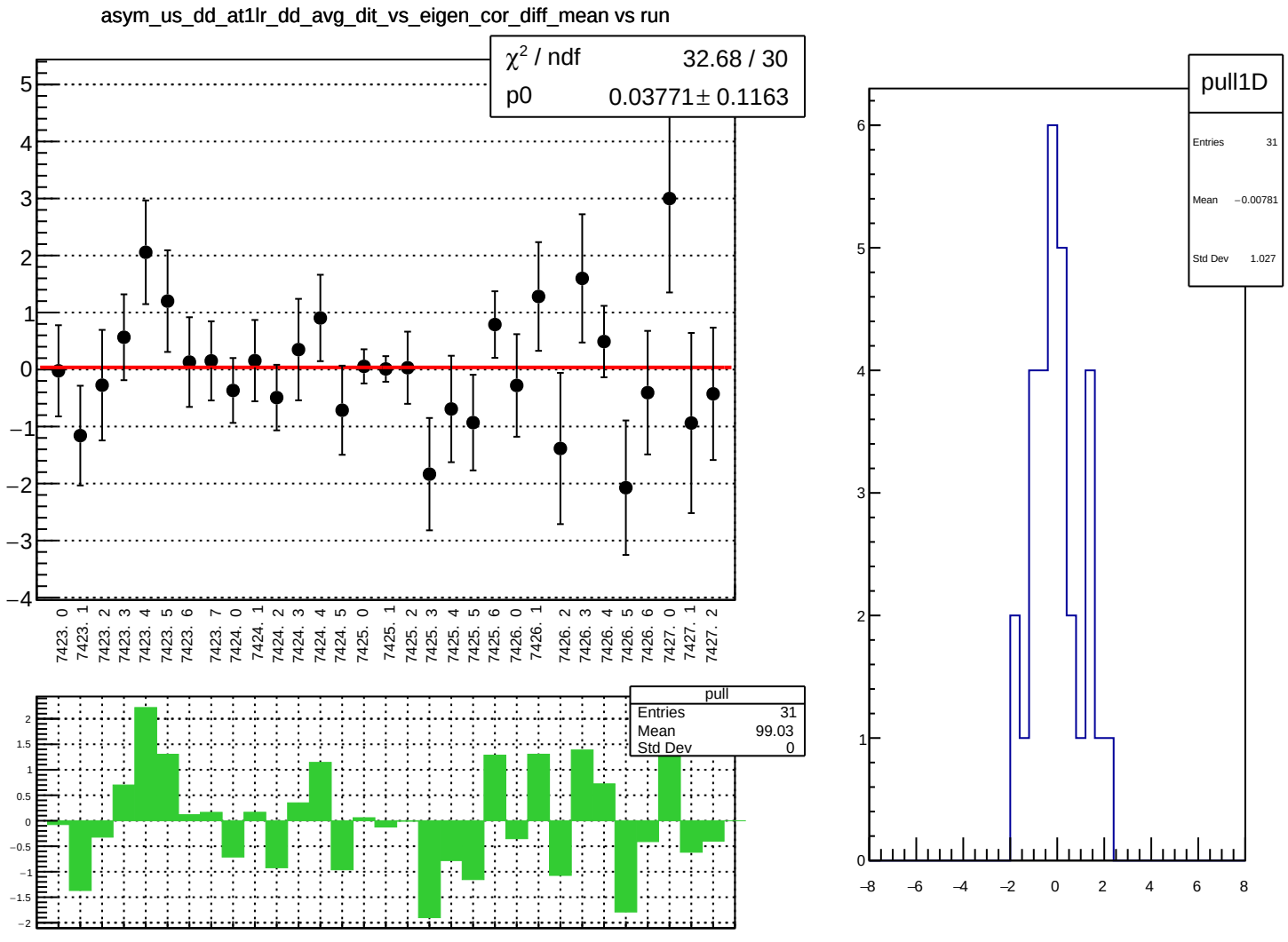

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 35.95 / 30
p0 2226 ± 2.885
2260
2240
2220
2200
2180
2160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

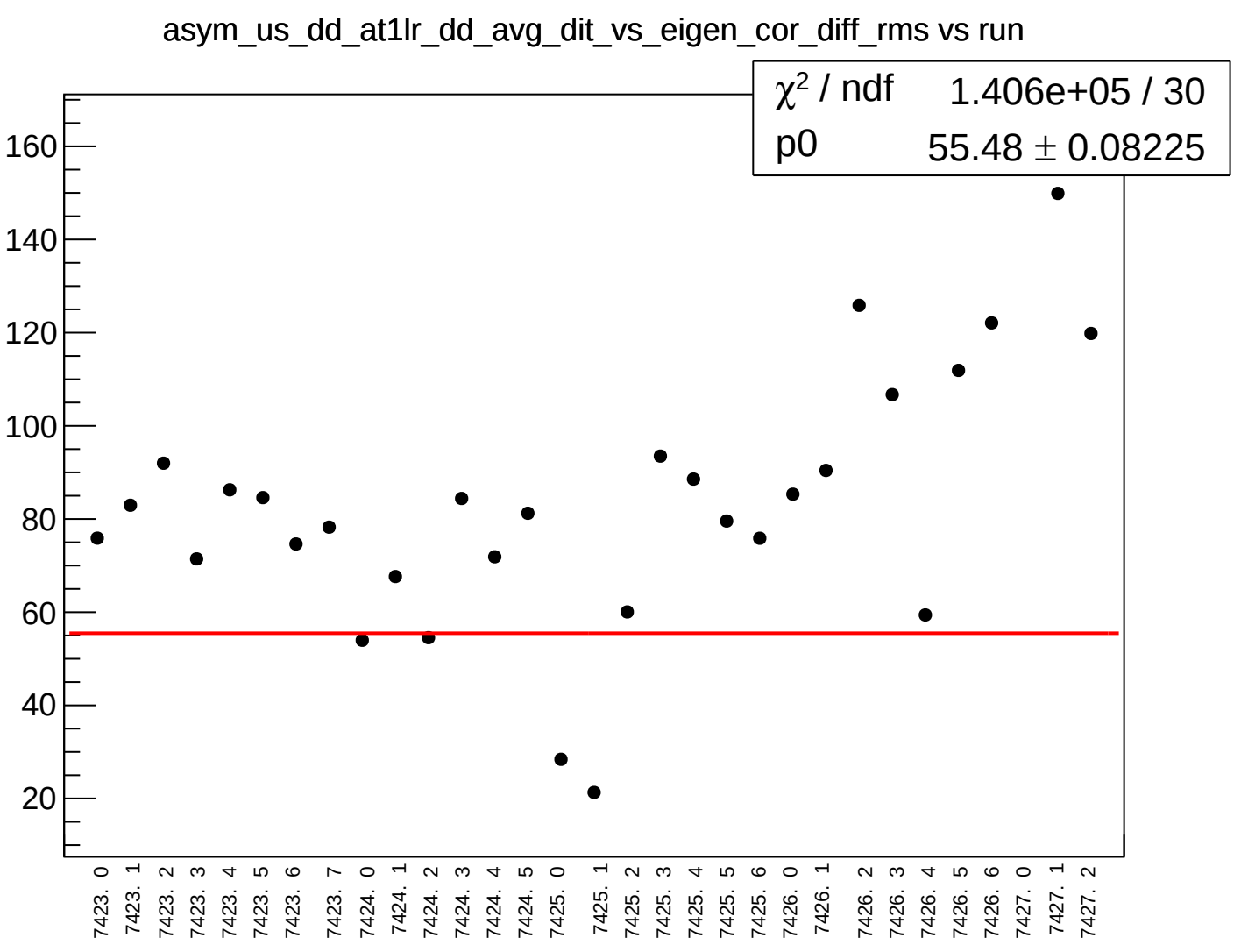

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.23 / 30
p0 −8.538e−15 ± 2.697e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −76.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.02613
Std Dev 0.9195
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

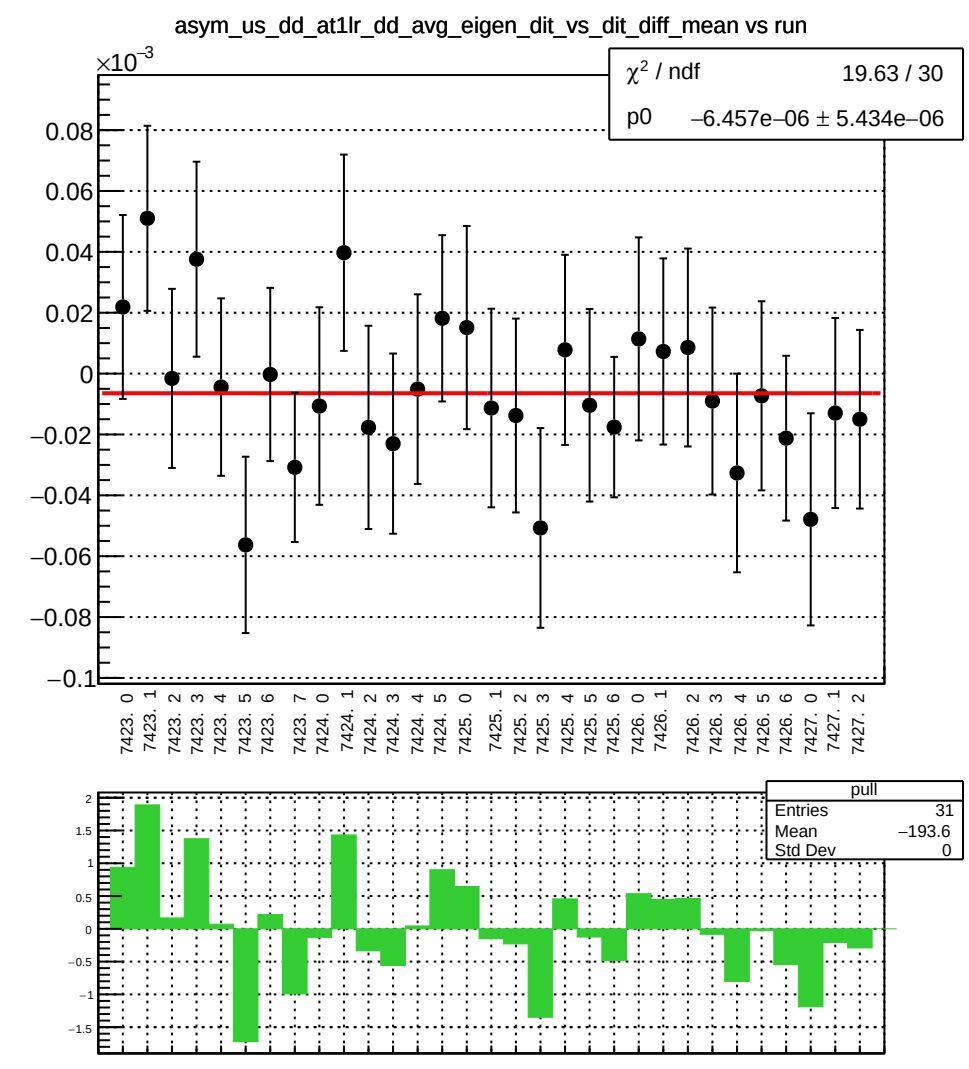

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.138e+05 / 30
p0 5.449e−12 ± 1.907e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

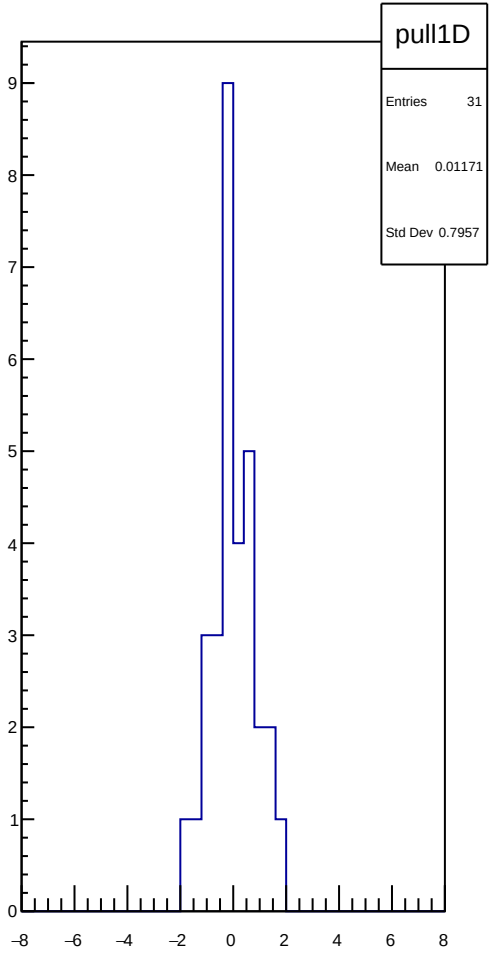

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 32.68 / 30
p0 0.03771 ± 0.1163
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 99.03
Std Dev 0
pull1D
Entries 31
Mean −0.00781
Std Dev 1.027

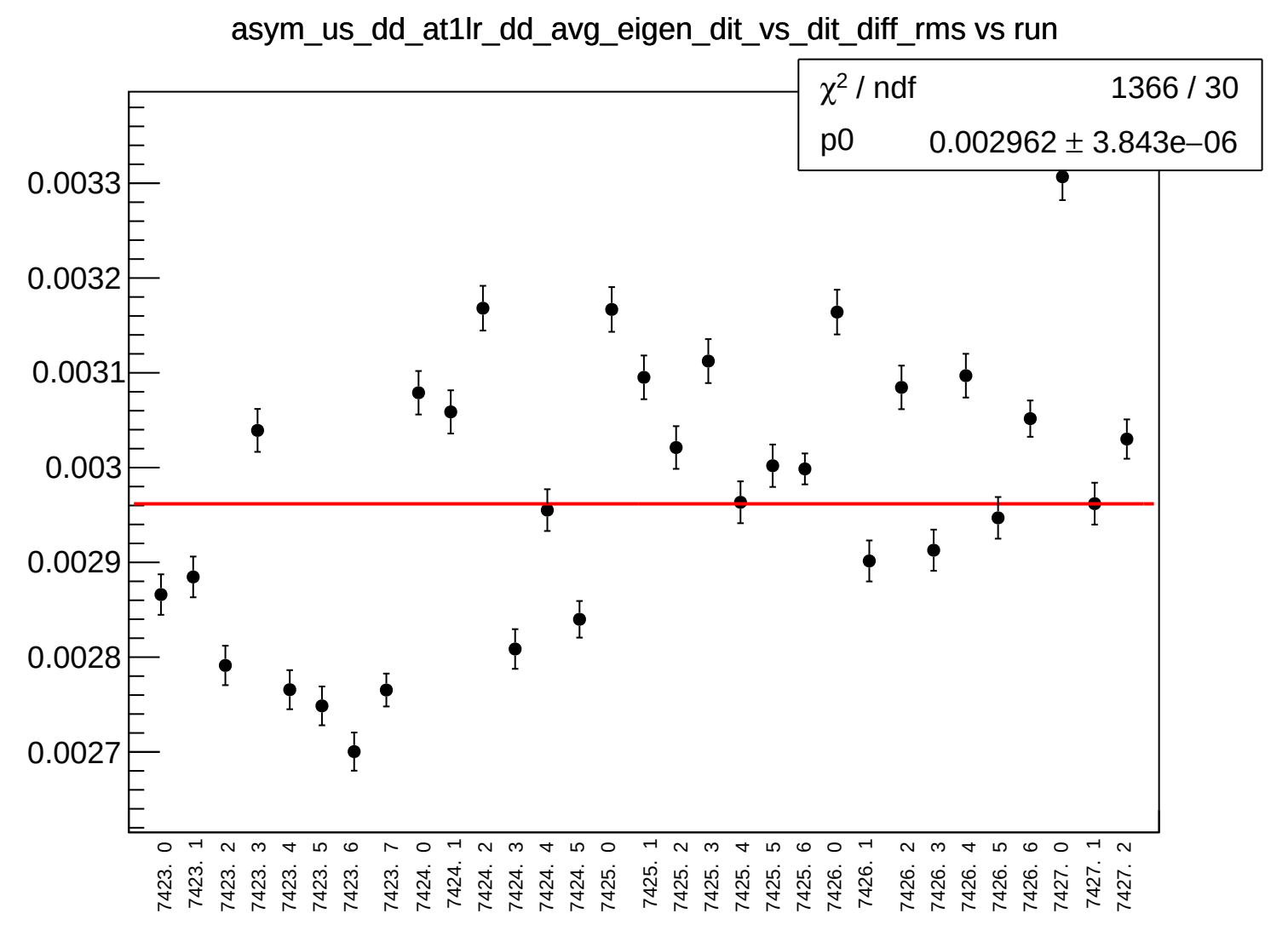

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 30
p0 55.48 ± 0.08225
160
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

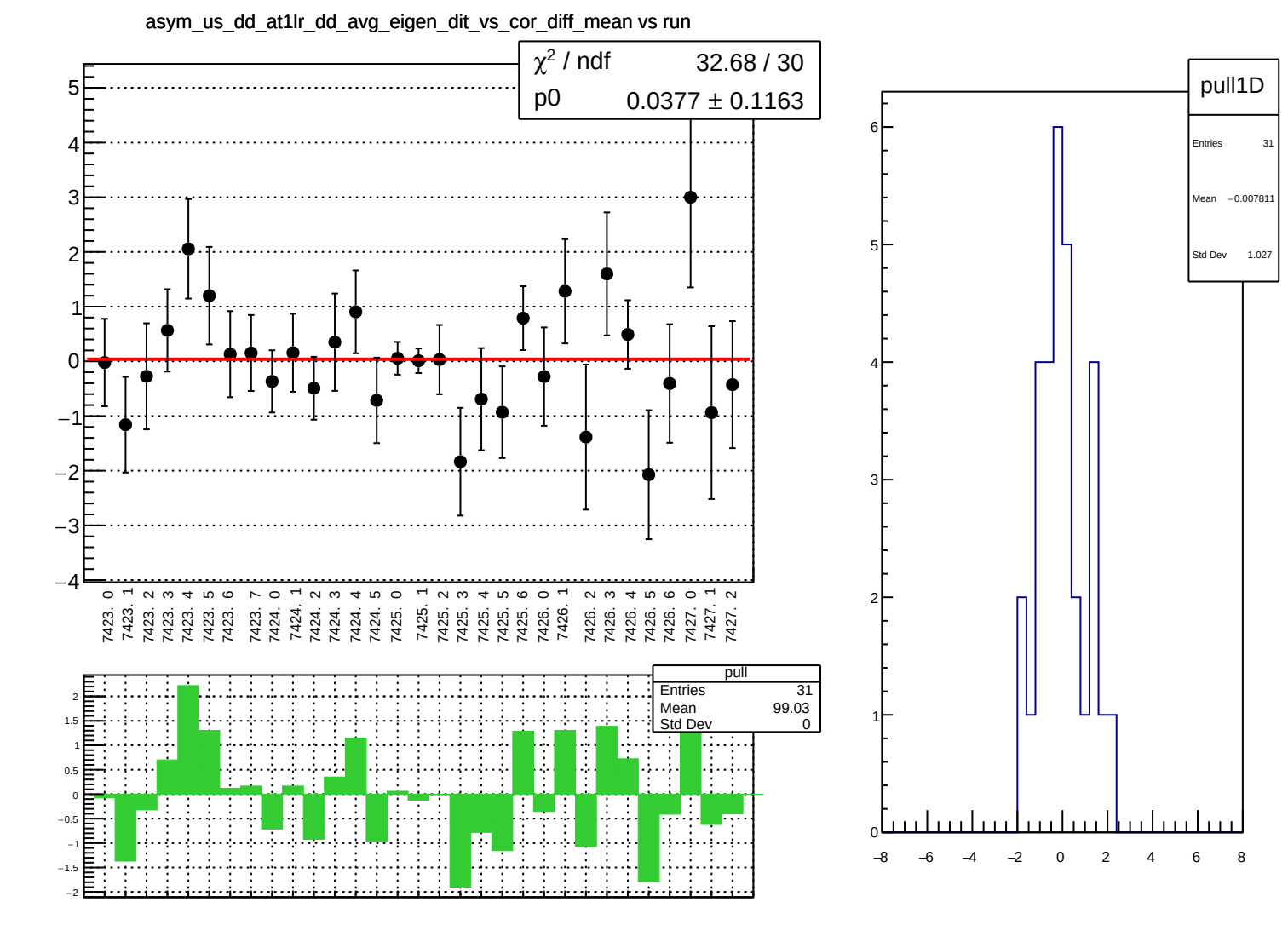

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.68 / 30
p0 0.03771 ± 0.1163
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 99.03
Std Dev 0
pull1D
Entries 31
Mean −0.00781
Std Dev 1.027

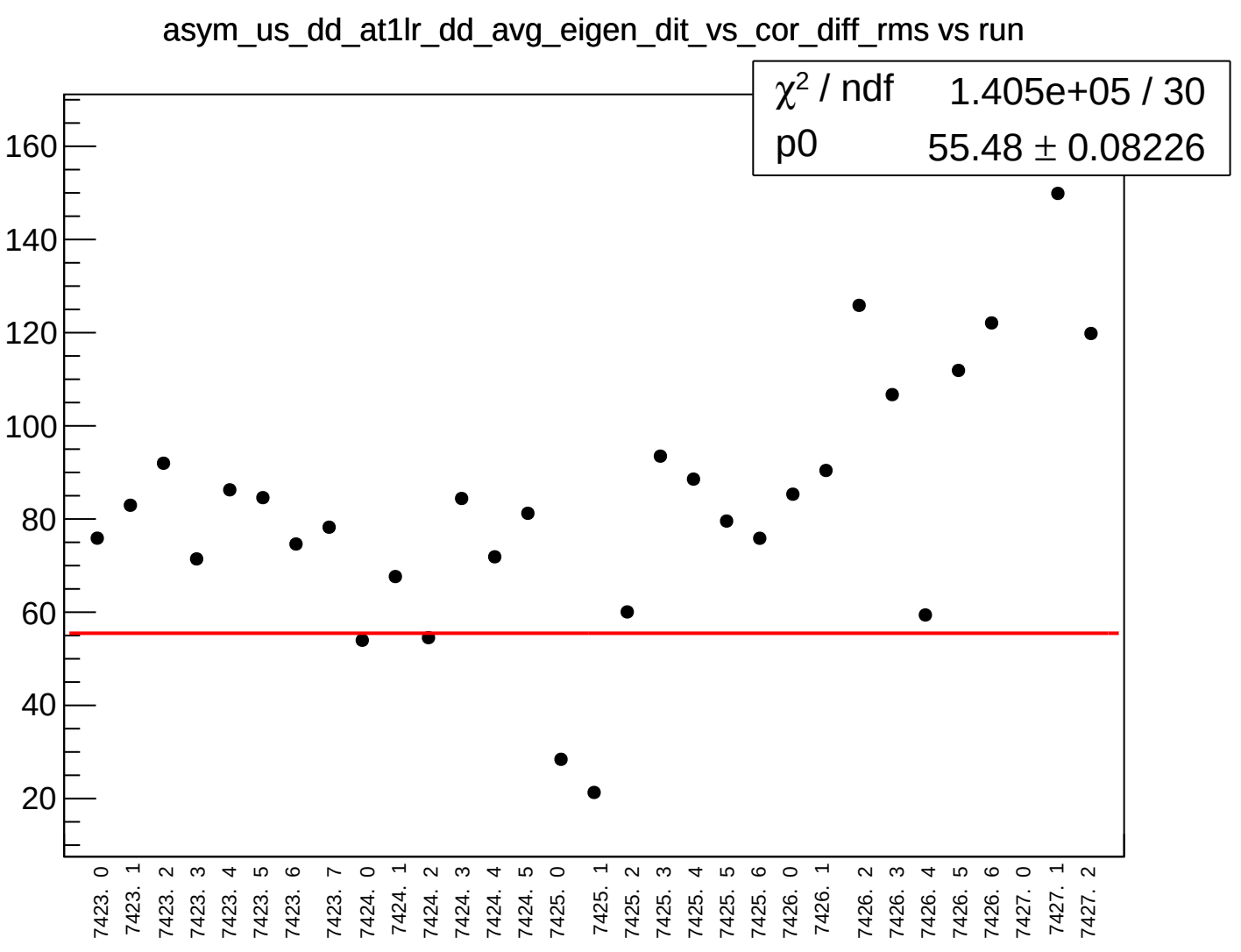

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 30
p0 55.48 ± 0.08225
160
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

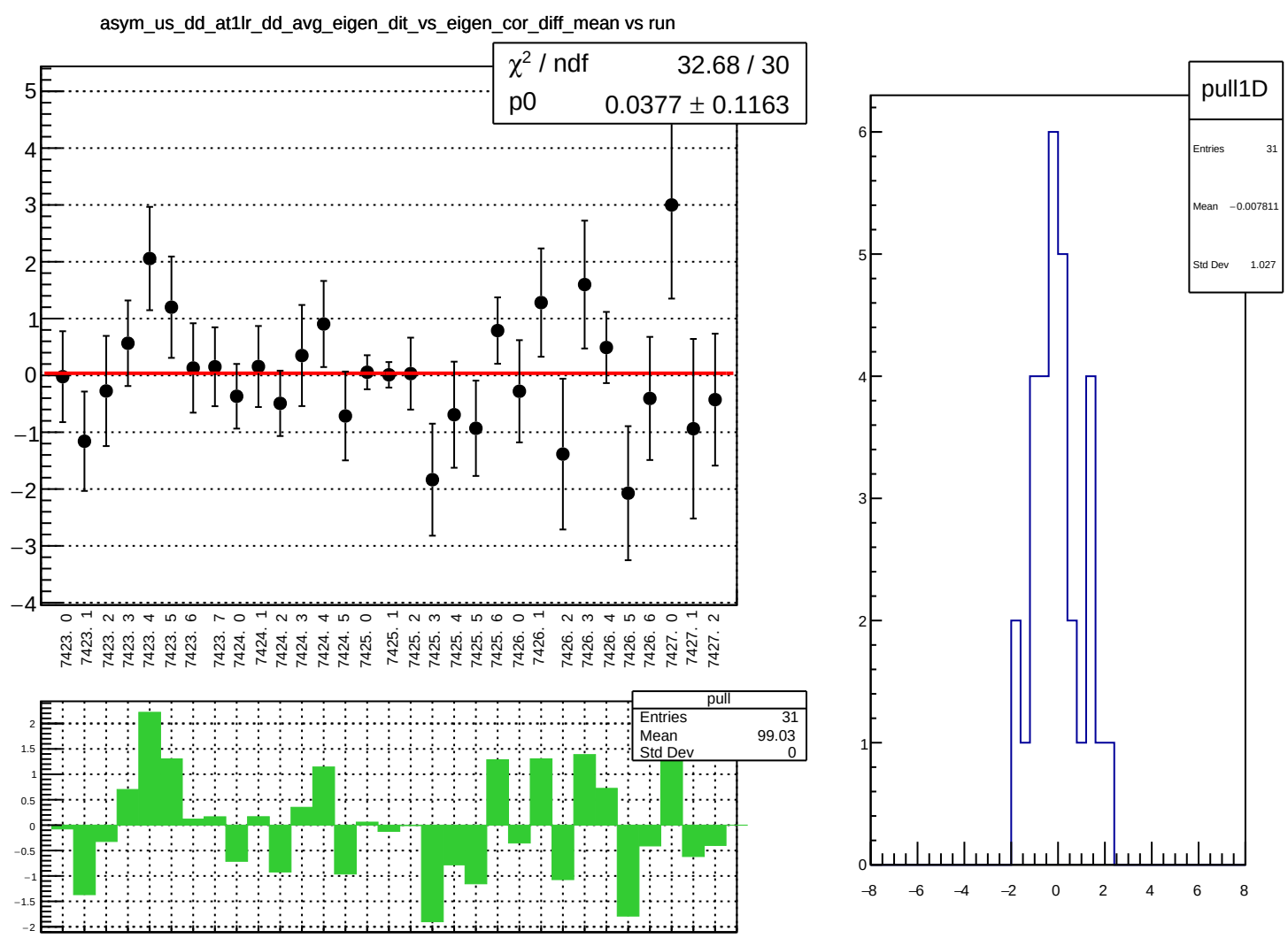

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.63 / 30
p0 −6.457e−06 ± 5.434e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −193.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

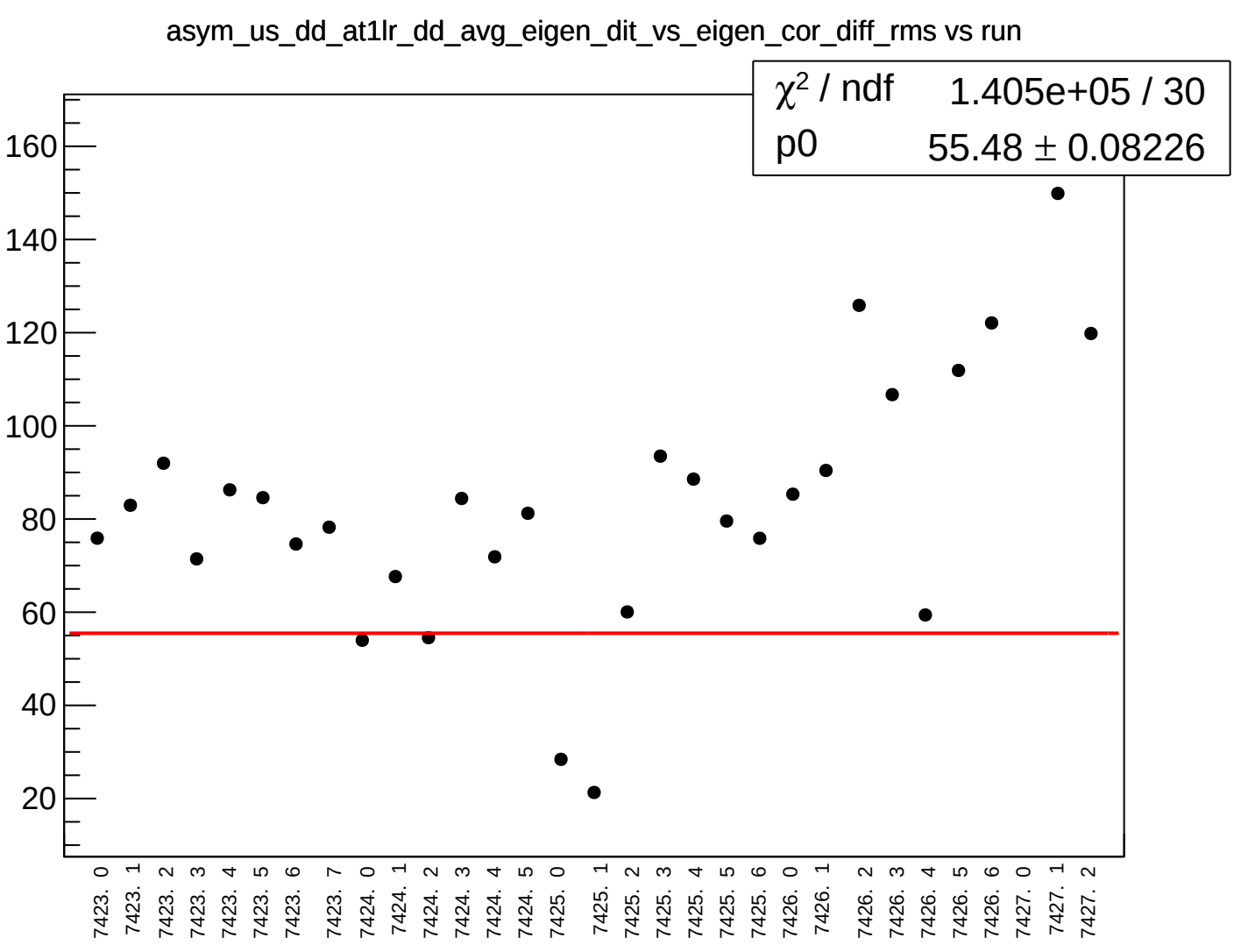

pull1D
Entries 31
Mean 0.01171
Std Dev 0.7957
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

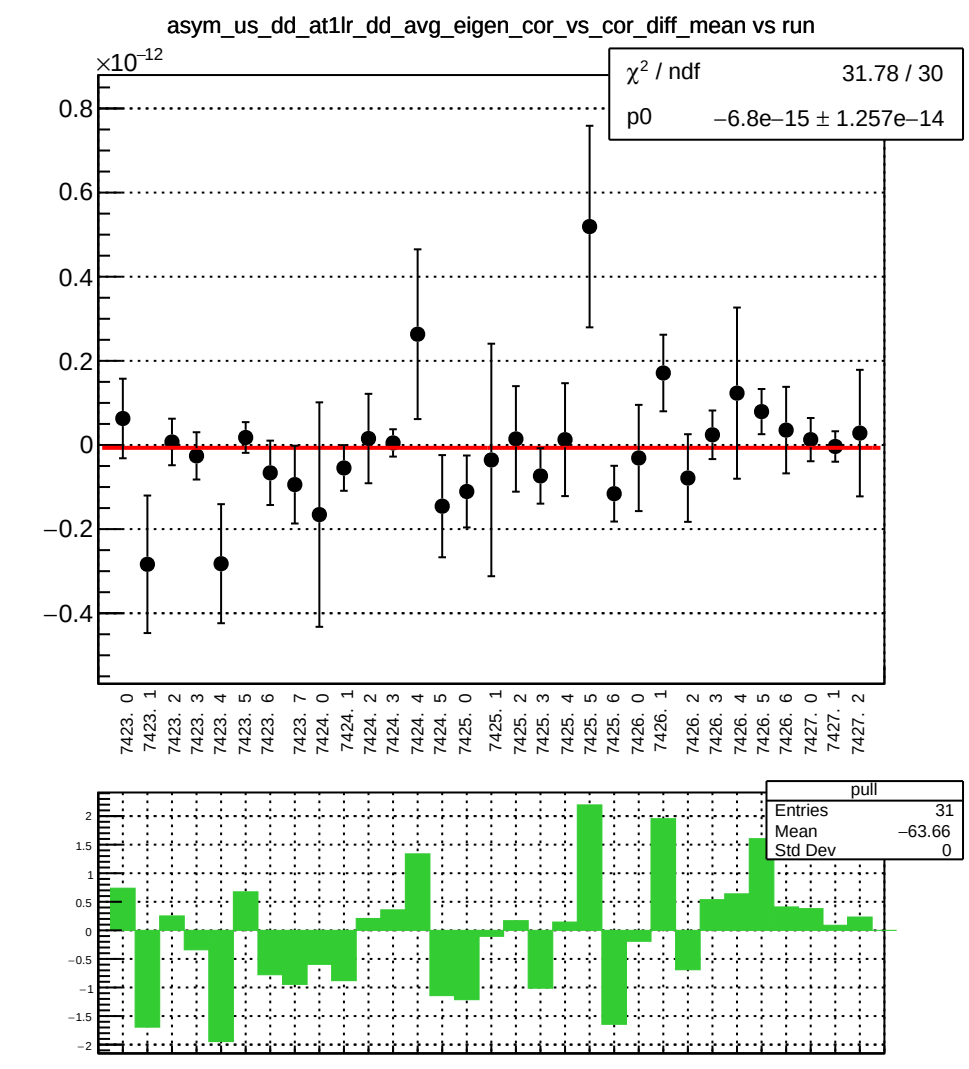

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1366 / 30
p0 0.002962 ± 3.843e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

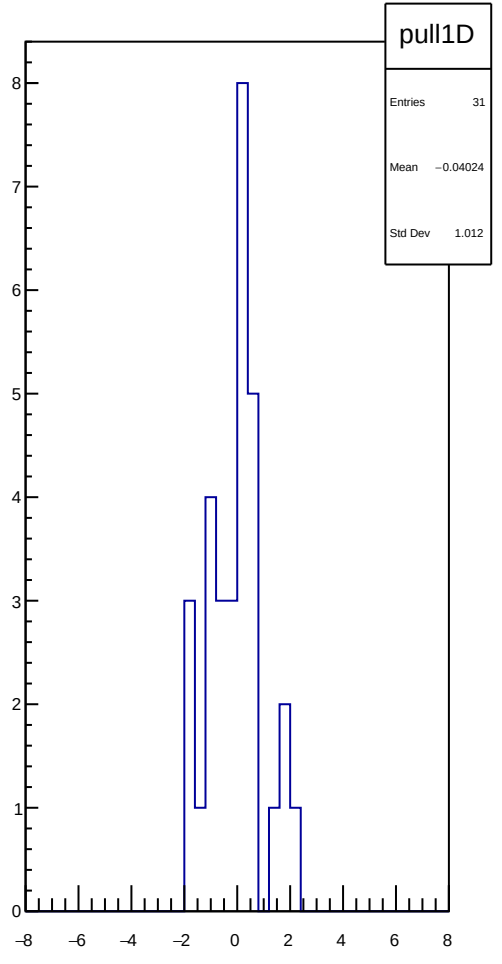

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.68 / 30
p0 0.0377 ± 0.1163
pull
Entries 31
Mean 99.03
Std Dev 0
pull1D
Entries 31
Mean −0.007811
Std Dev 1.027

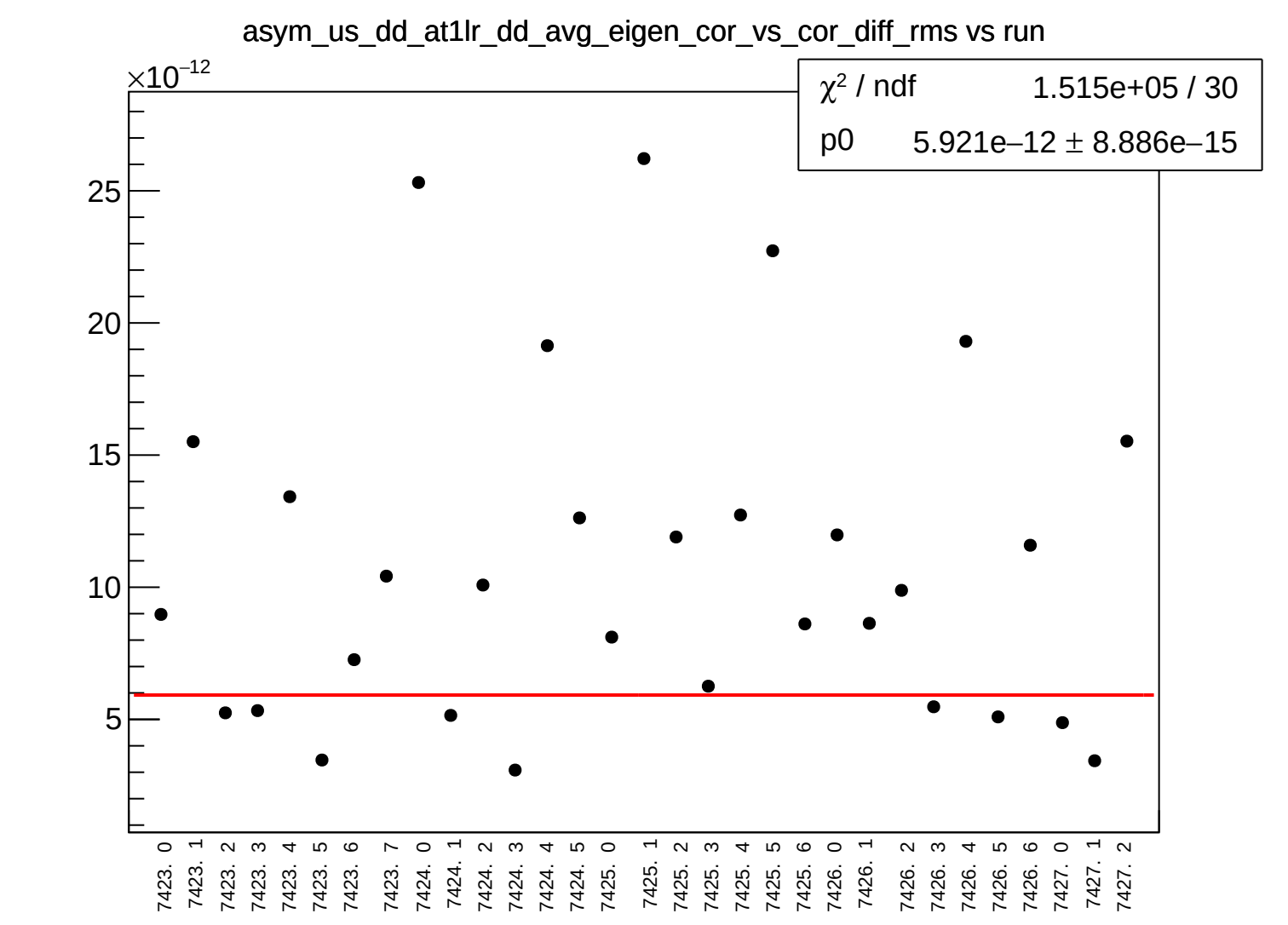

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.405e+05 / 30
p0 55.48 ± 0.08226
160
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

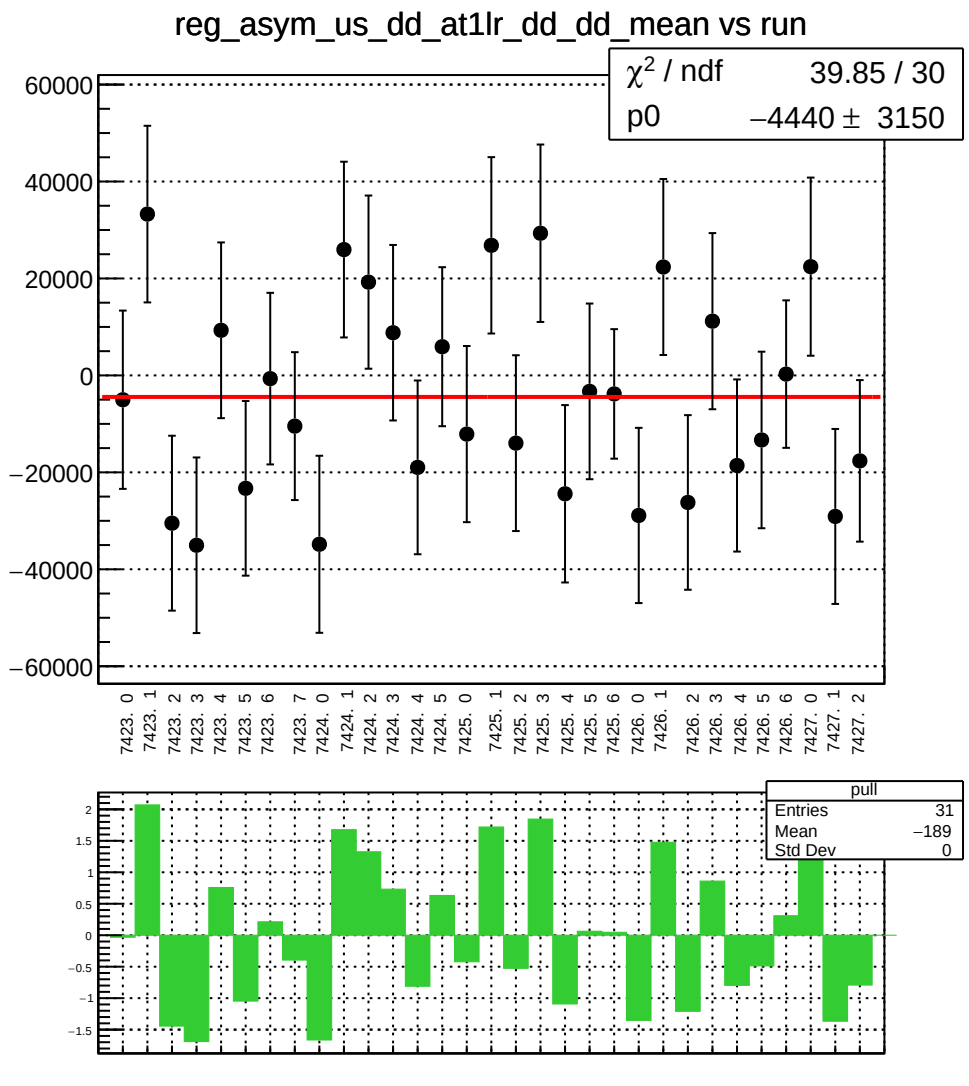

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.68 / 30
p0 0.0377 ± 0.1163
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 99.03
Std Dev 0
pull1D
Entries 31
Mean −0.007811
Std Dev 1.027

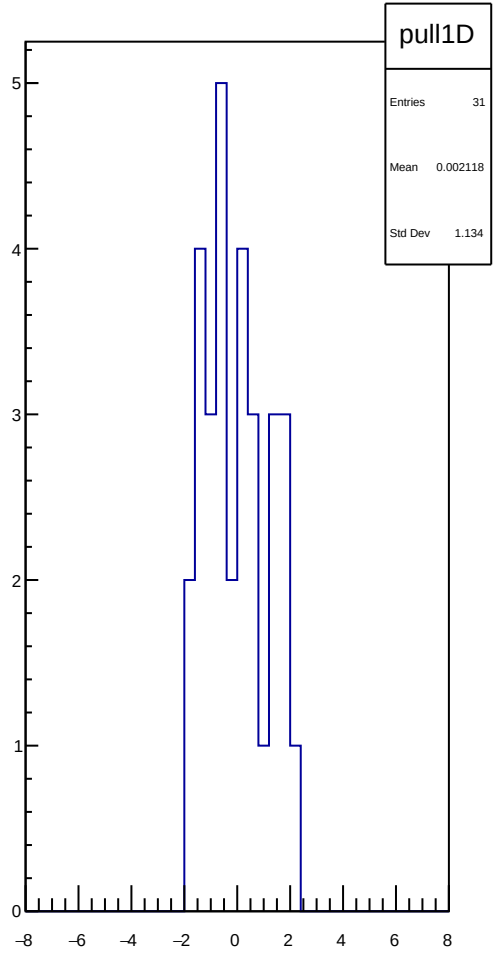

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.405e+05 / 30
p0 55.48 ± 0.08226
160
140
120
100
80
60
40
20
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

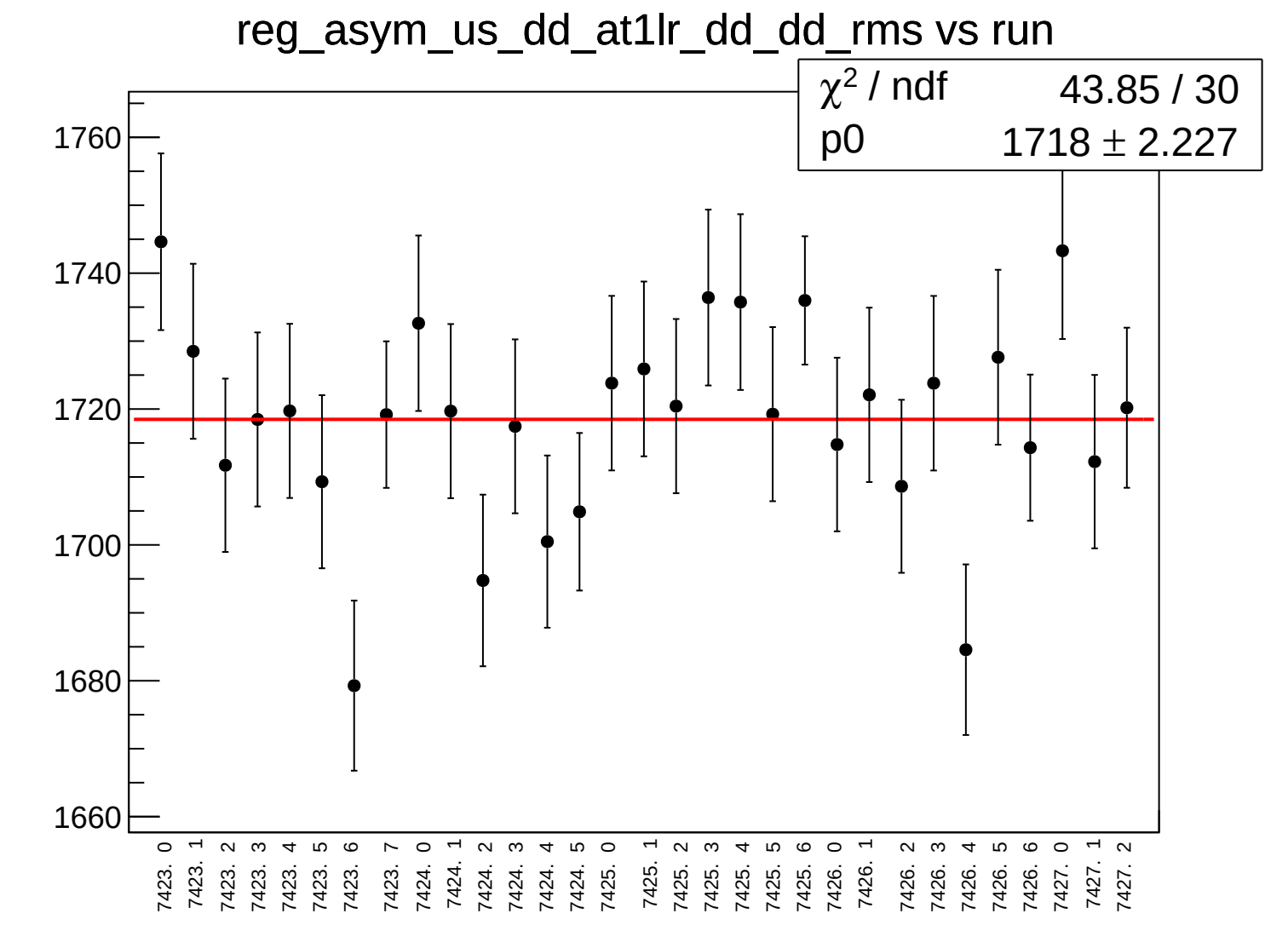

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.78 / 30
p0 −6.8e−15 ± 1.257e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −63.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

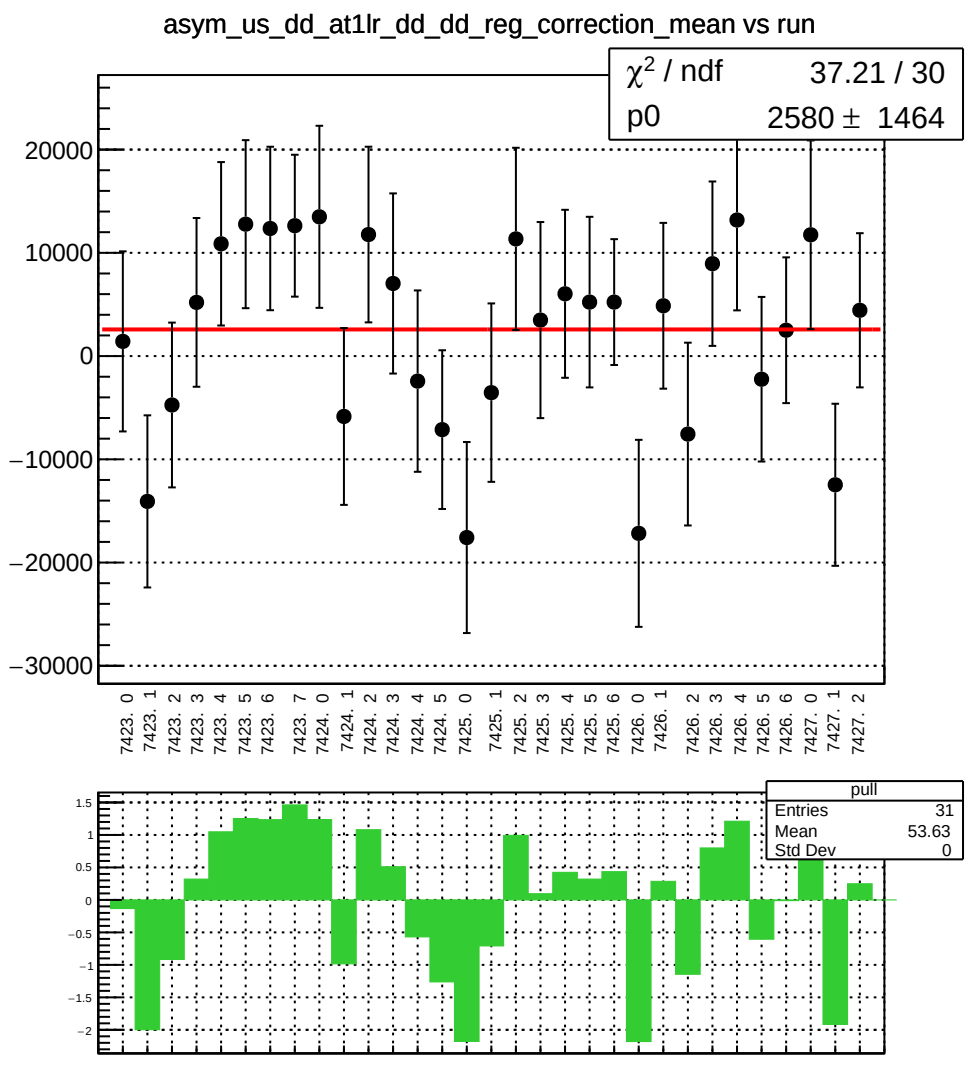

pull1D
Entries 31
Mean −0.04024
Std Dev 1.012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

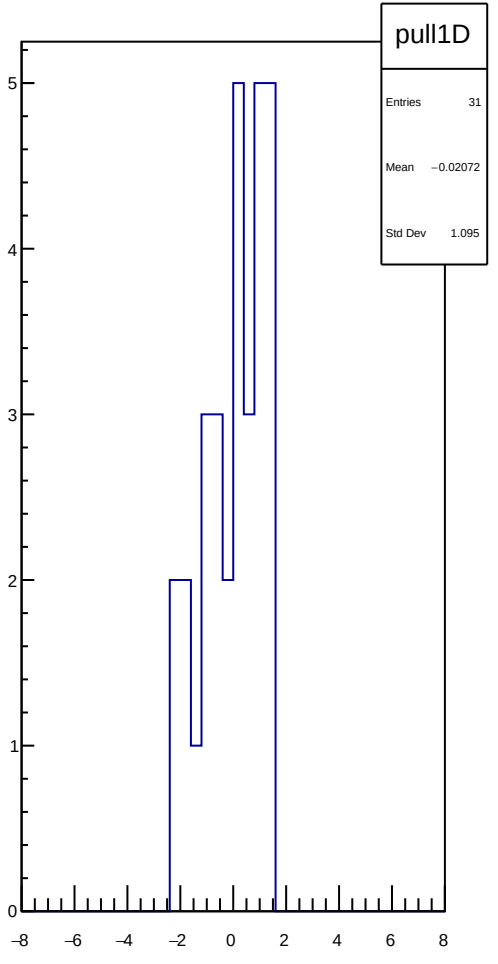

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.515e+05 / 30
p0 5.921e−12 ± 8.886e−15
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

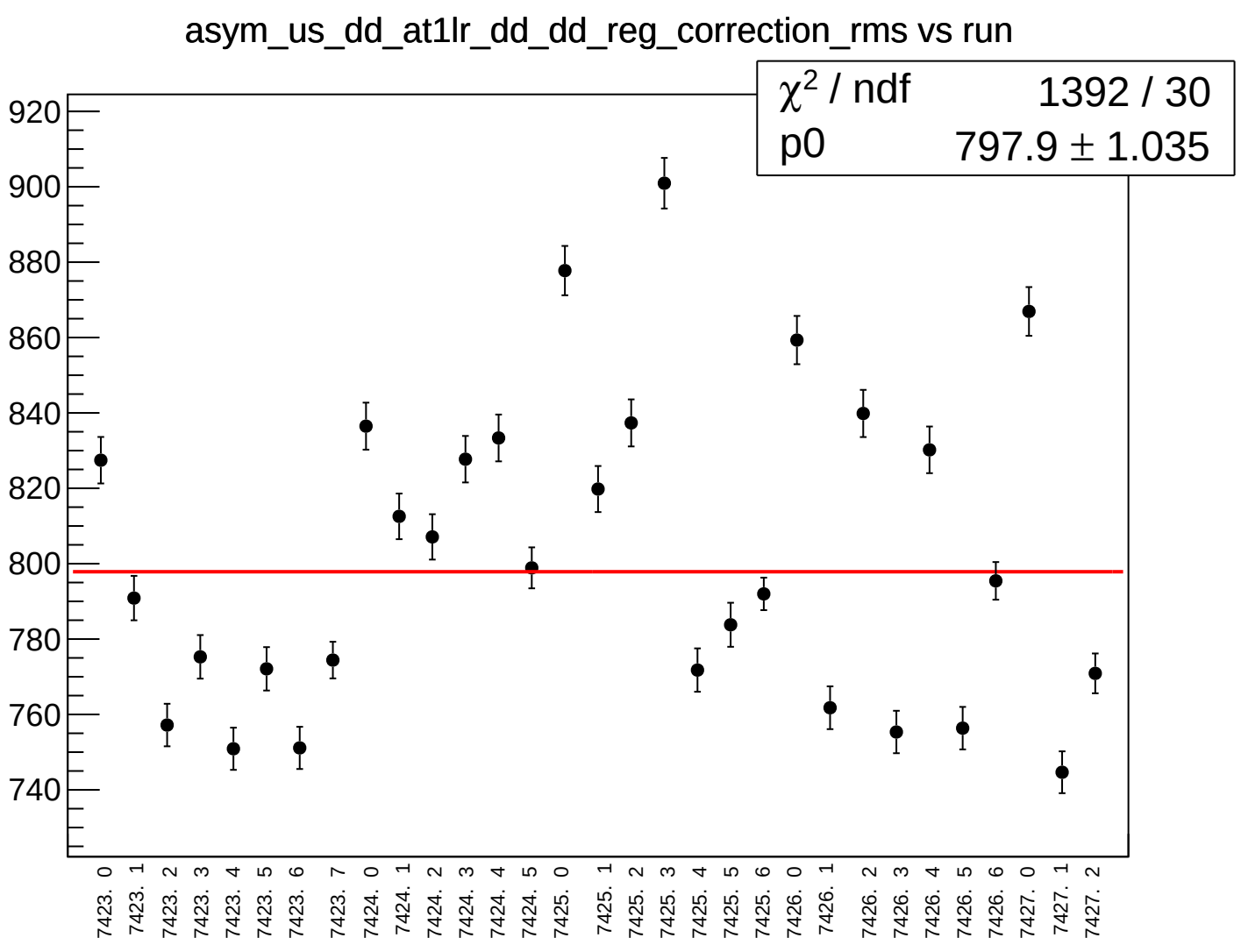

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 39.85 / 30
p0 −4440 ± 3150
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −189
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

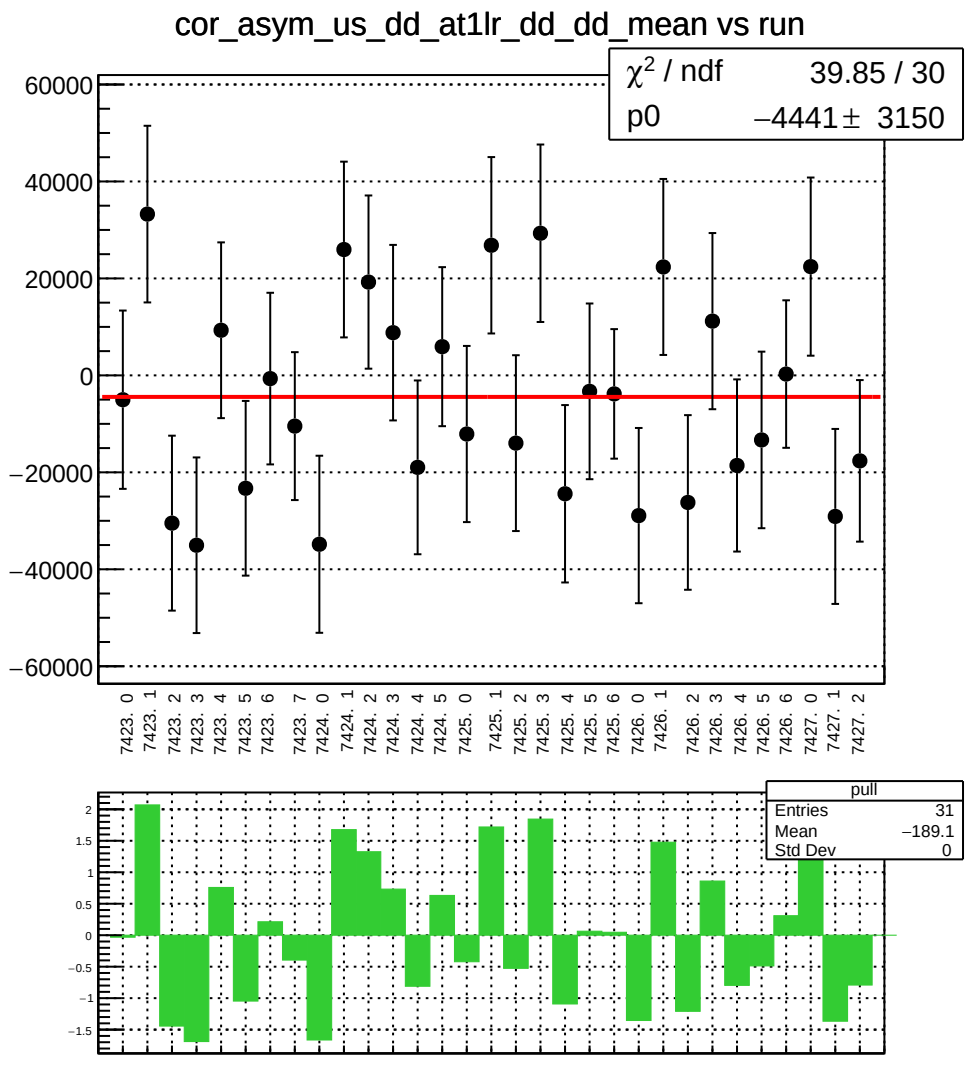

pull1D
Entries 31
Mean 0.002118
Std Dev 1.134
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

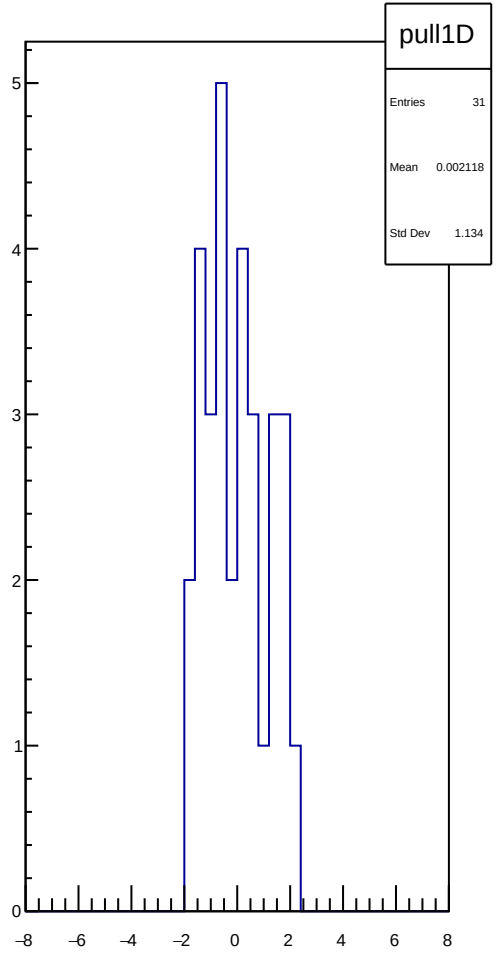

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 43.85 / 30
p0 1718 ± 2.227
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

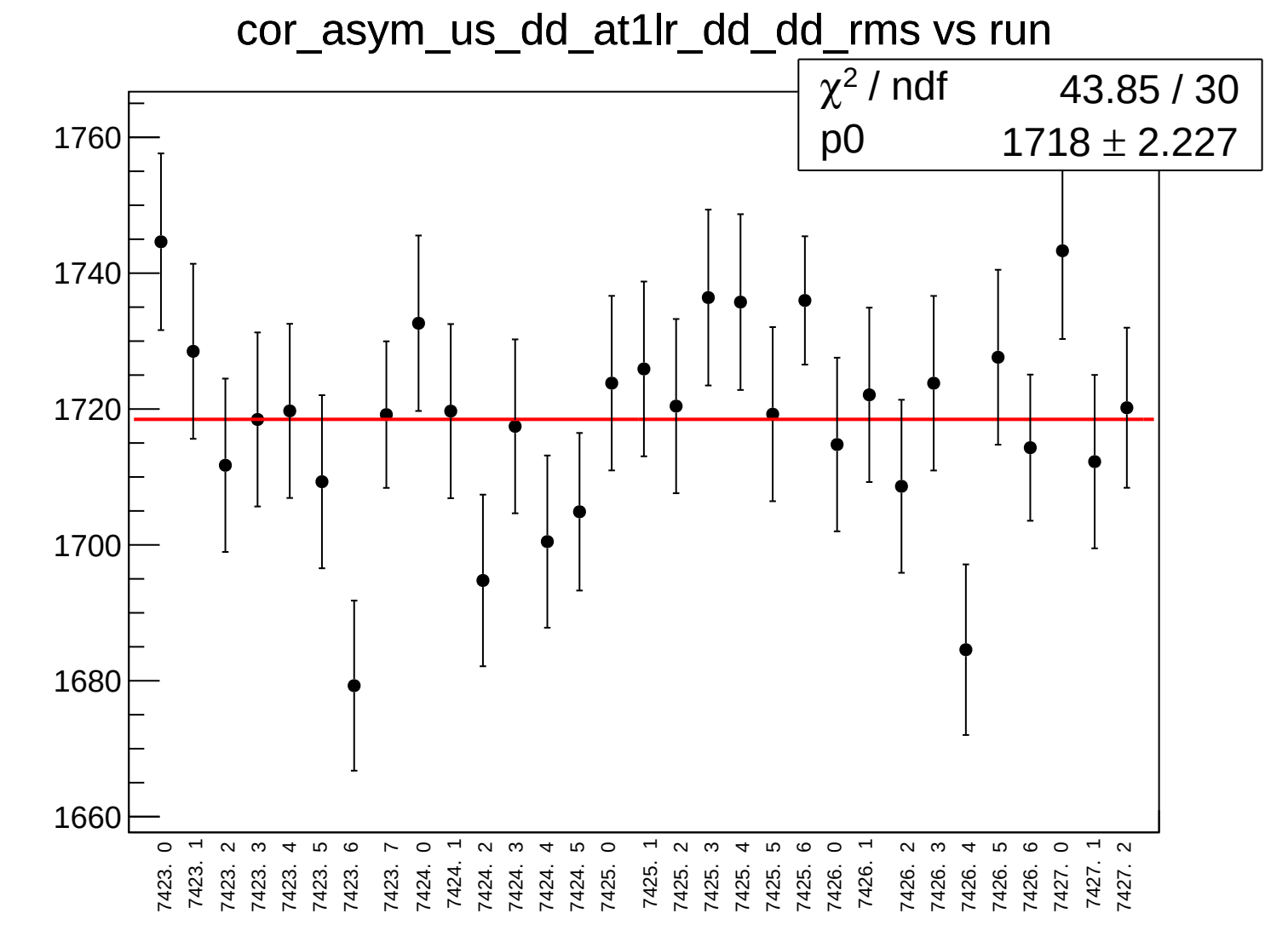

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 37.21 / 30
p0 2580 ± 1464
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 53.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

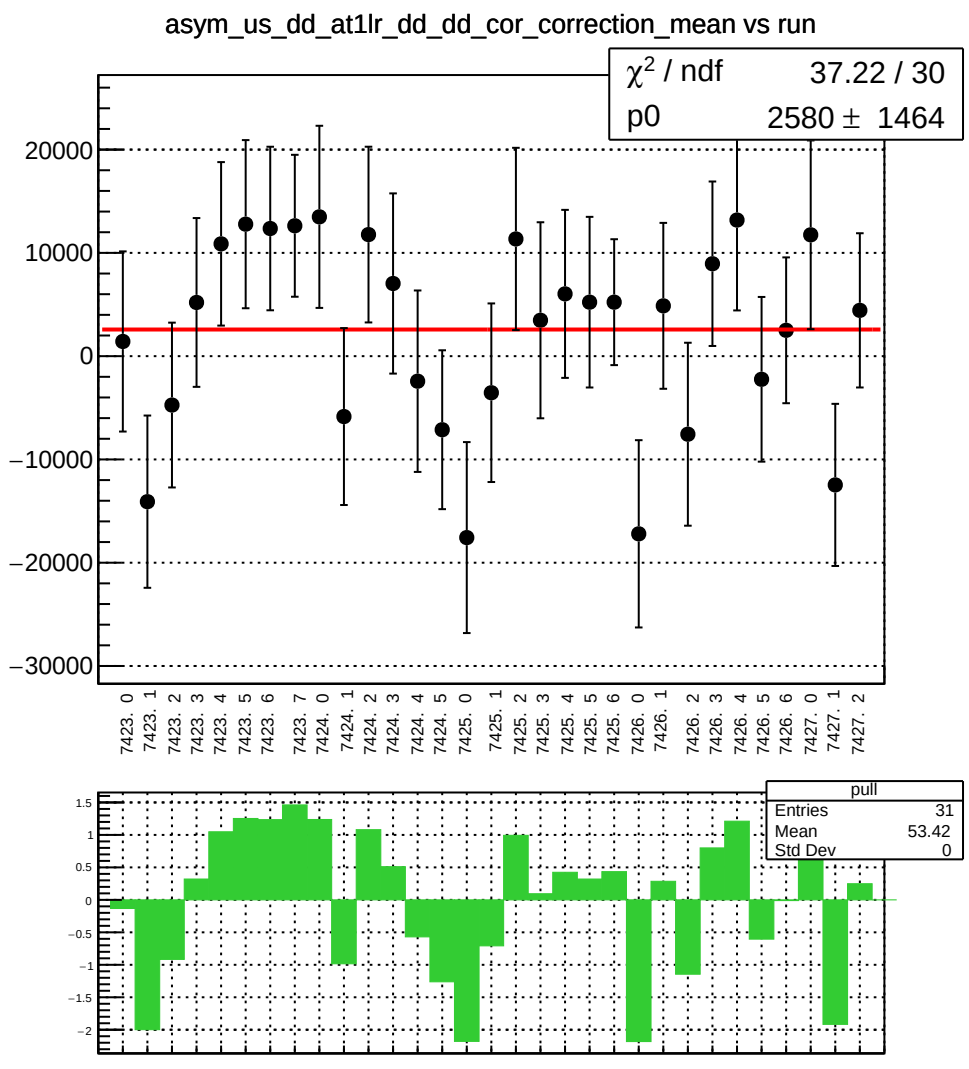

pull1D
Entries 31
Mean −0.02072
Std Dev 1.095
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

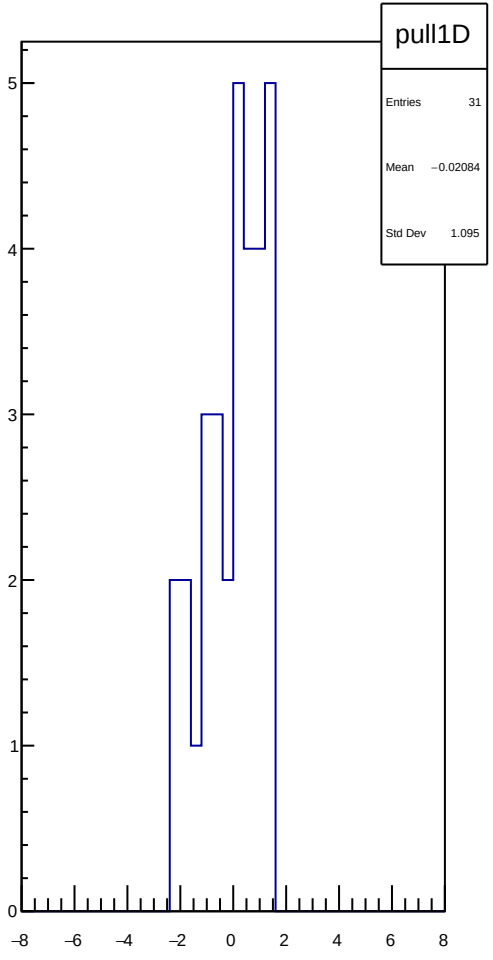

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1392 / 30
p0 797.9 ± 1.035
920
900
880
860
840
820
800
780
760
740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

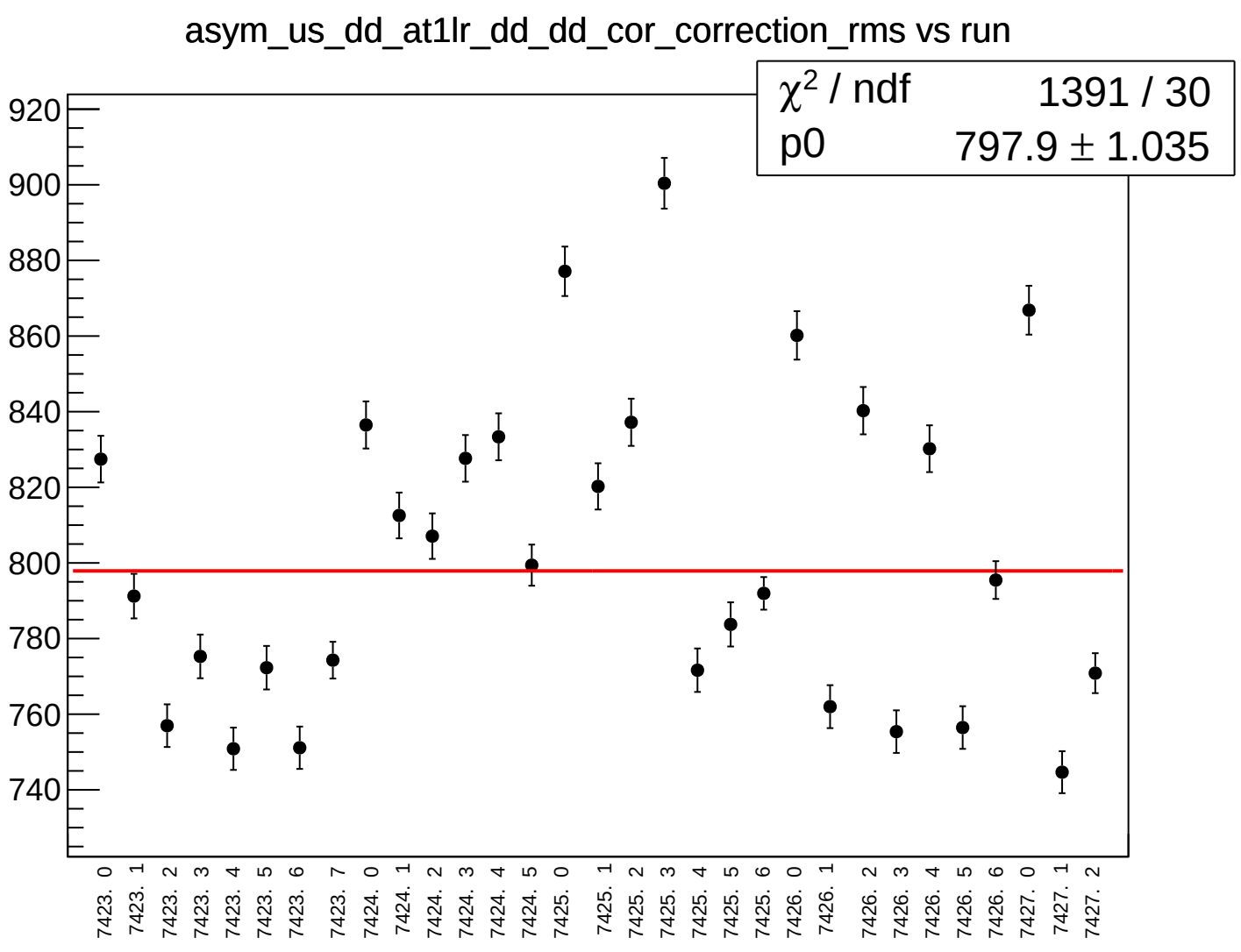

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 39.85 / 30
p0 −4441 ± 3150
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −189.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

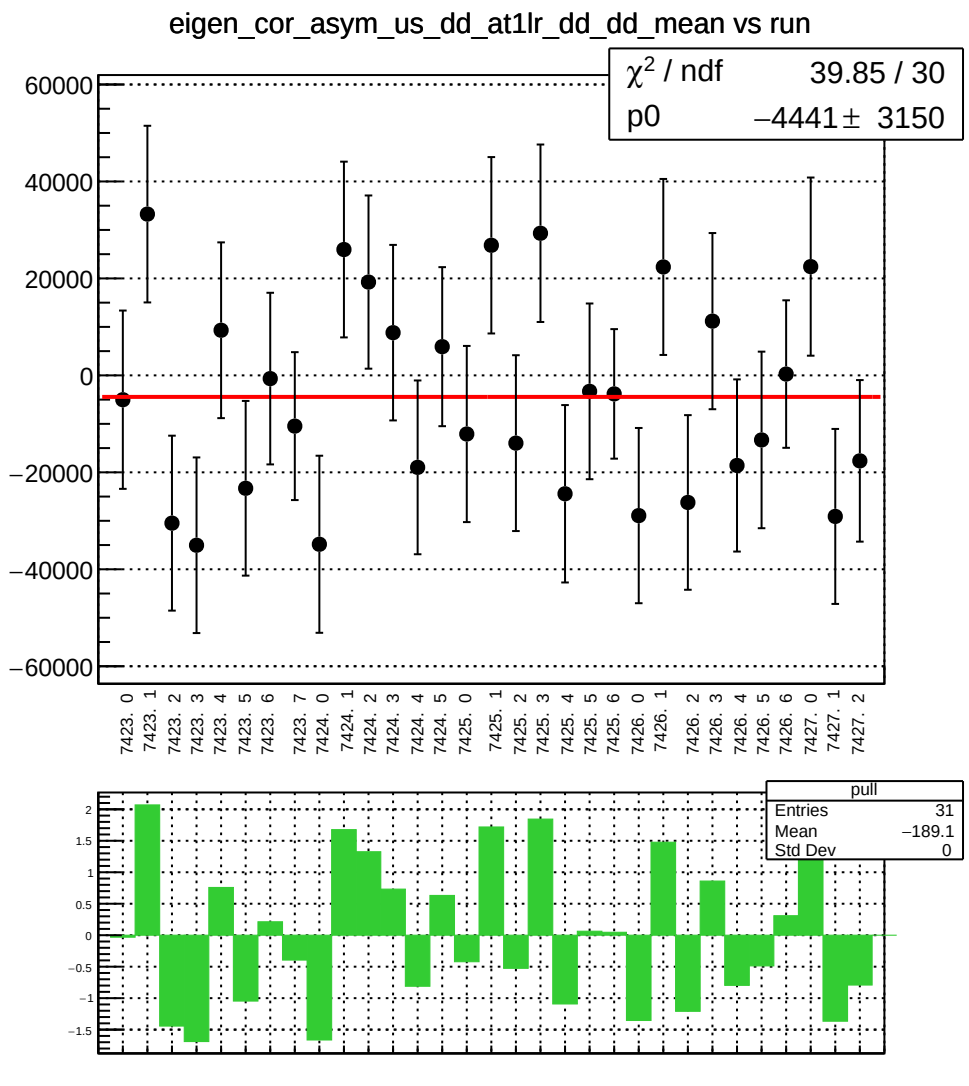

pull1D
Entries 31
Mean 0.002118
Std Dev 1.134
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

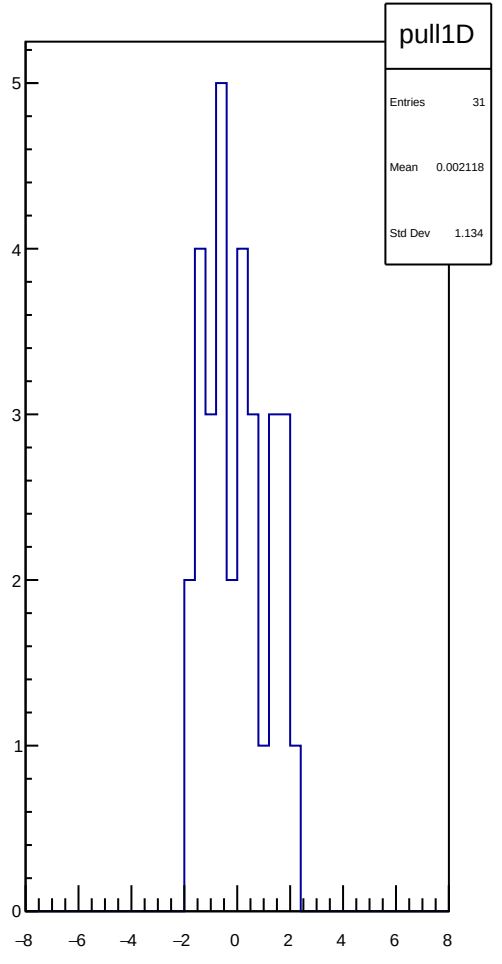

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 43.85 / 30
p0 1718 ± 2.227
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

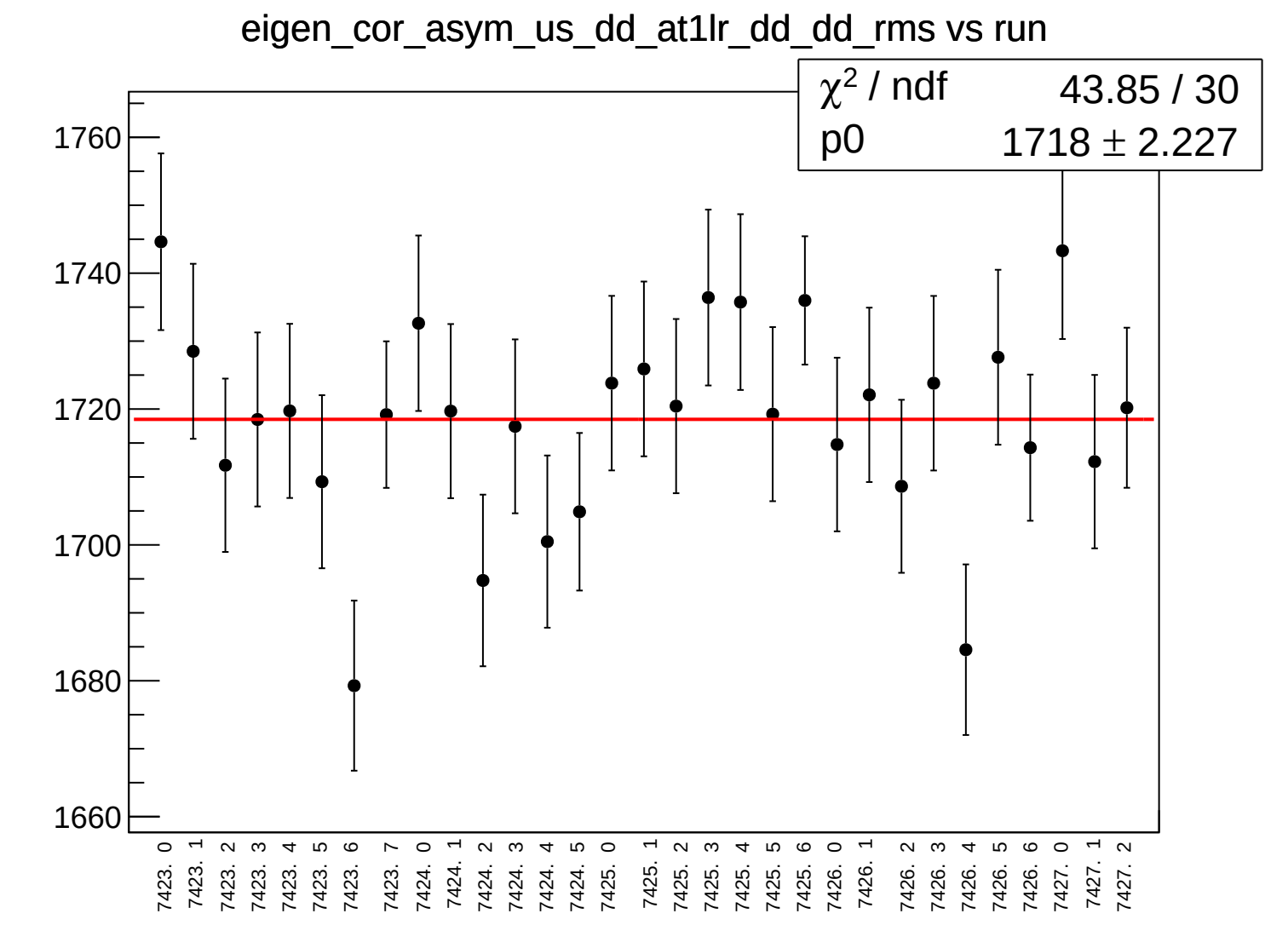

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 37.22 / 30
p0 2580 ± 1464
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 53.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

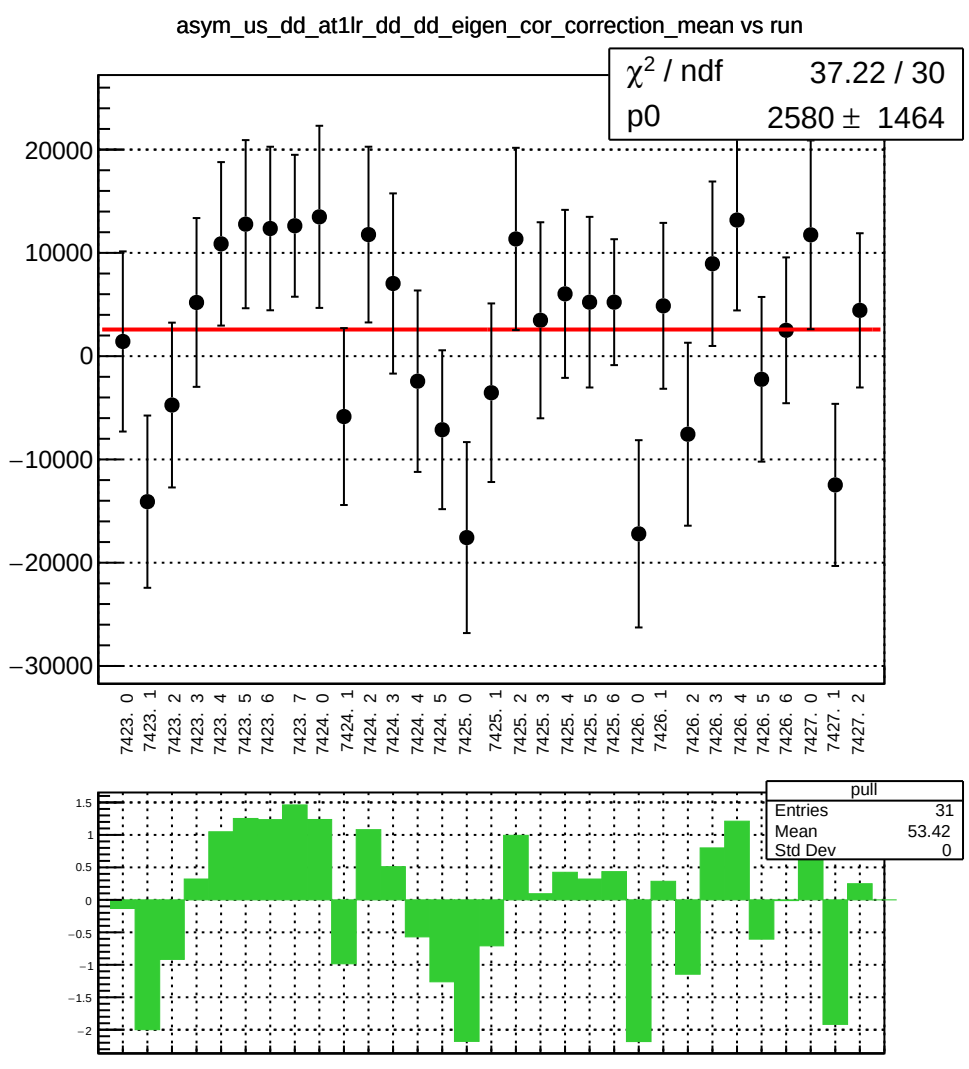

pull1D
Entries 31
Mean −0.02084
Std Dev 1.095
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

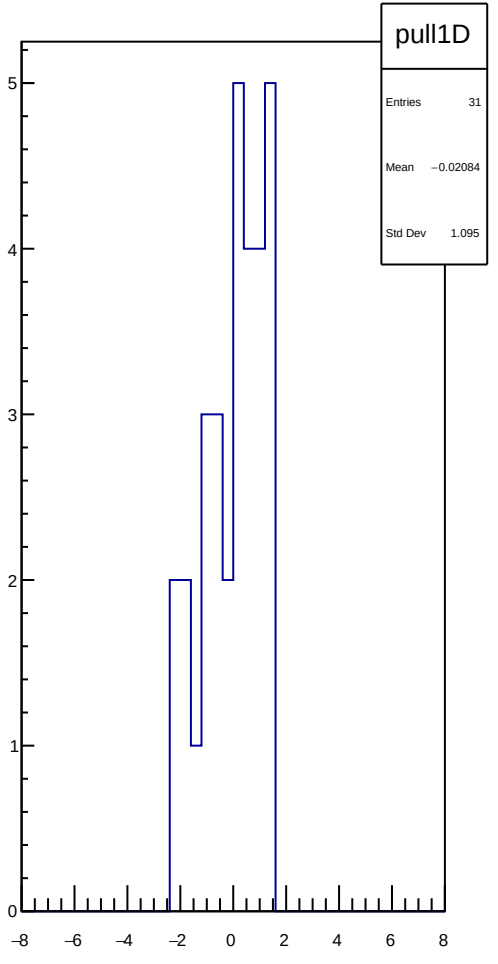

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1391 / 30
p0 797.9 ± 1.035
920
900
880
860
840
820
800
780
760
740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

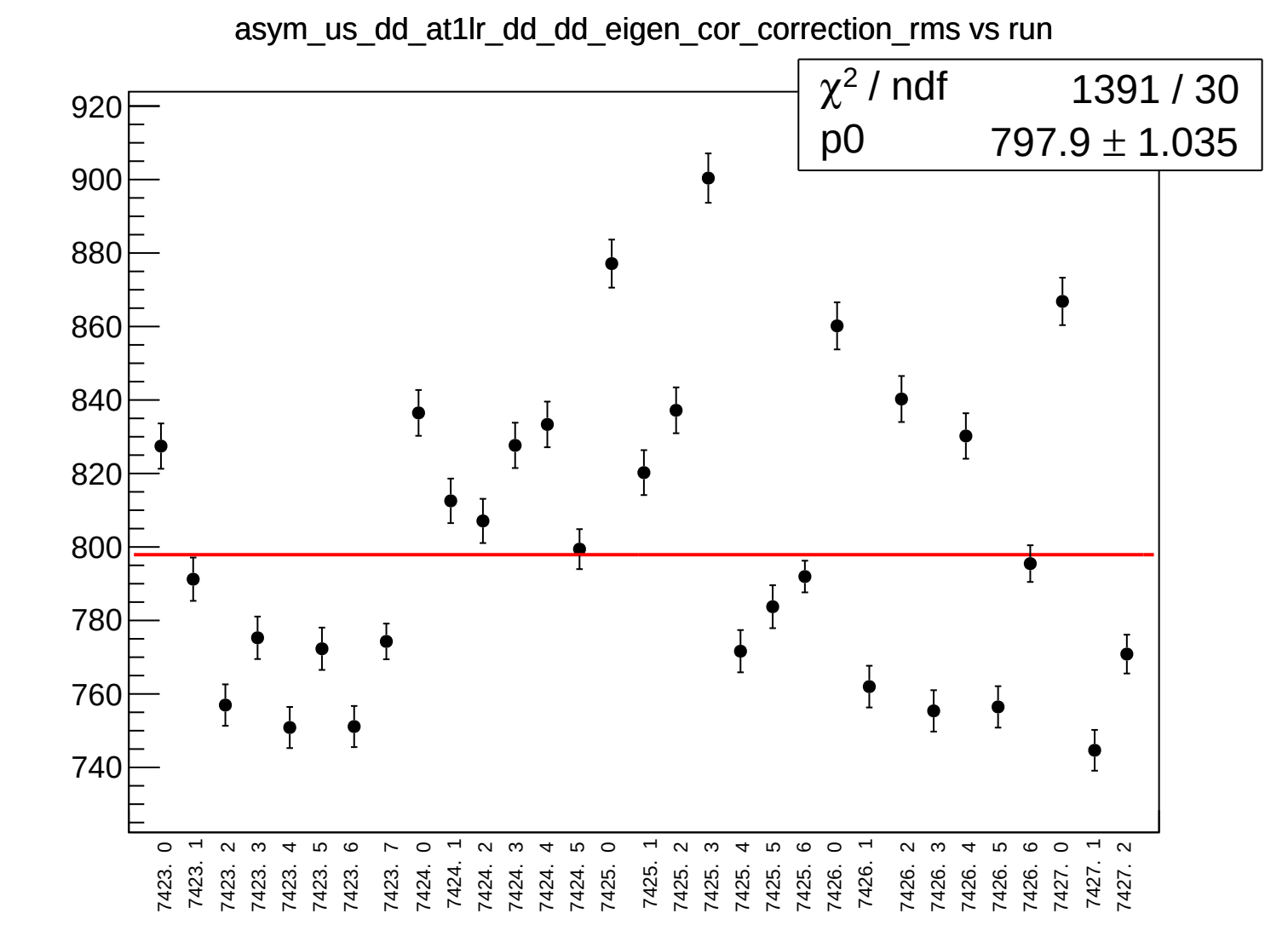

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 39.85 / 30
p0 −4441 ± 3150
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −189.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

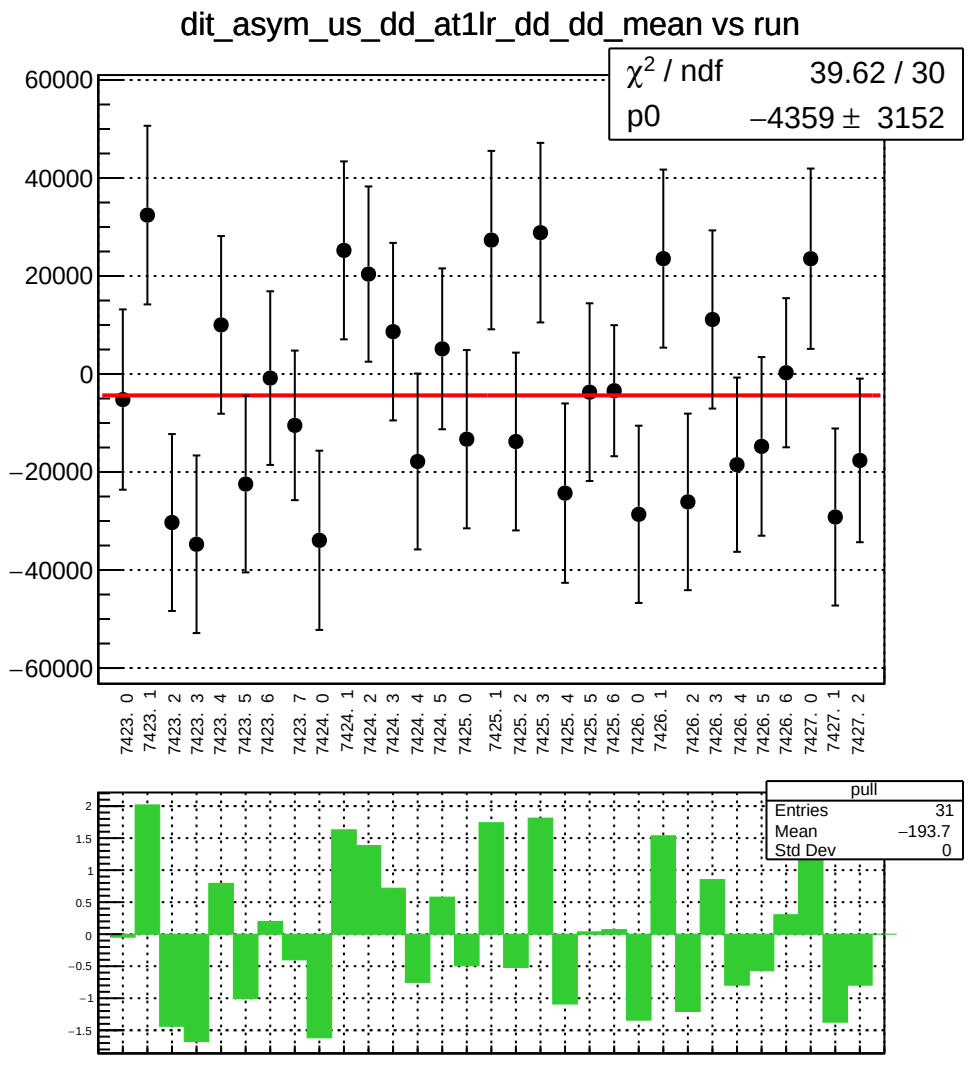

pull1D
Entries 31
Mean 0.002118
Std Dev 1.134
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

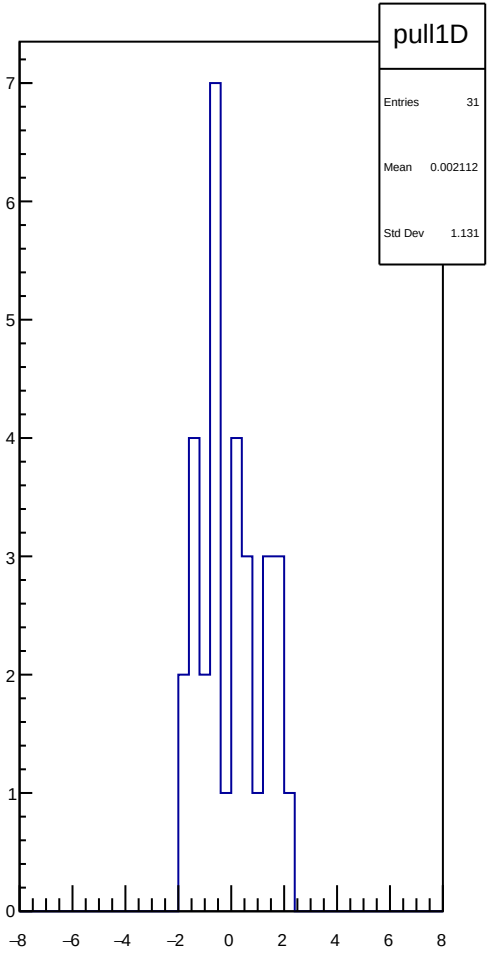

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 43.85 / 30
p0 1718 ± 2.227
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

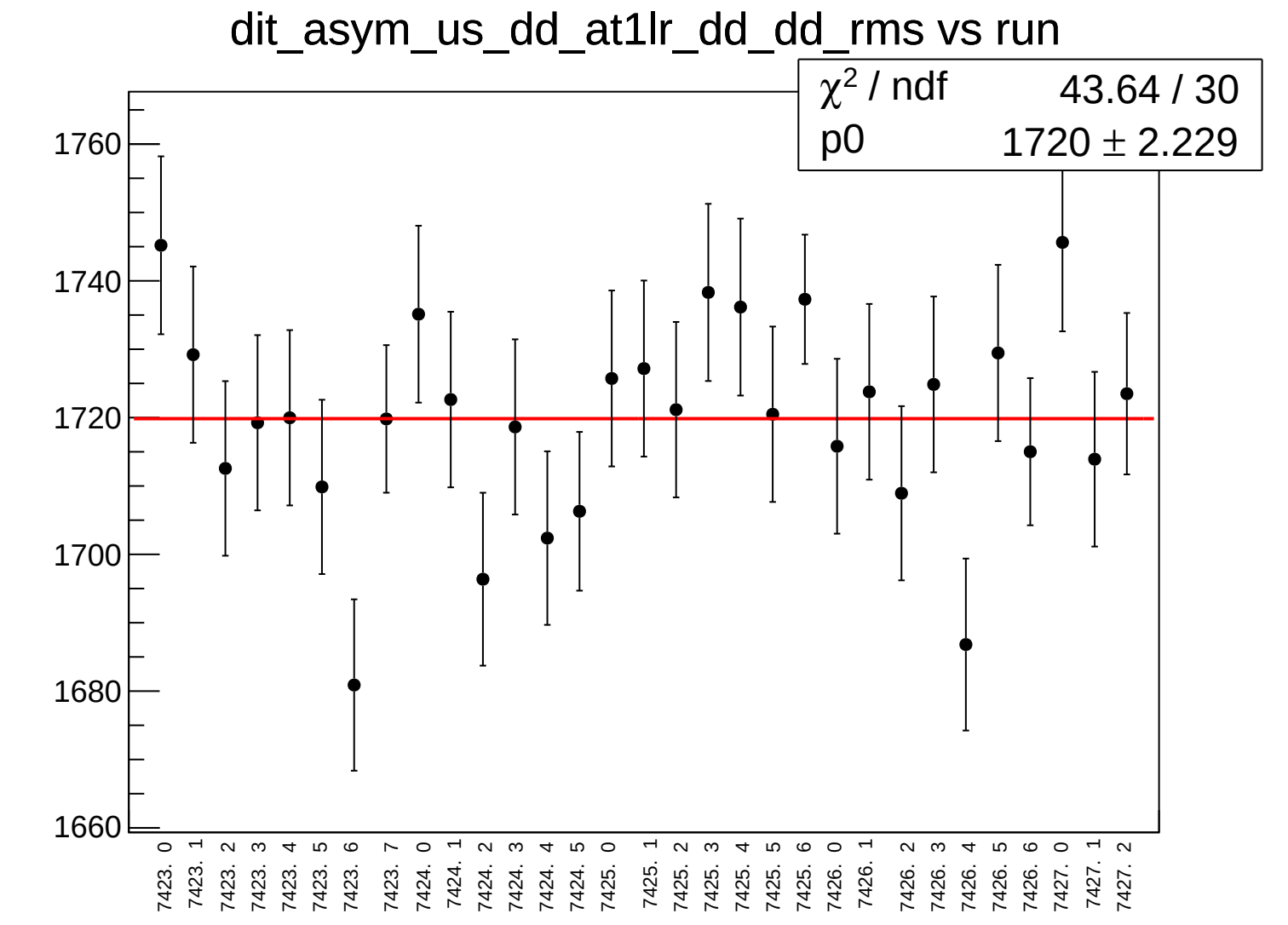

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 37.22 / 30
p0 2580 ± 1464
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 53.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

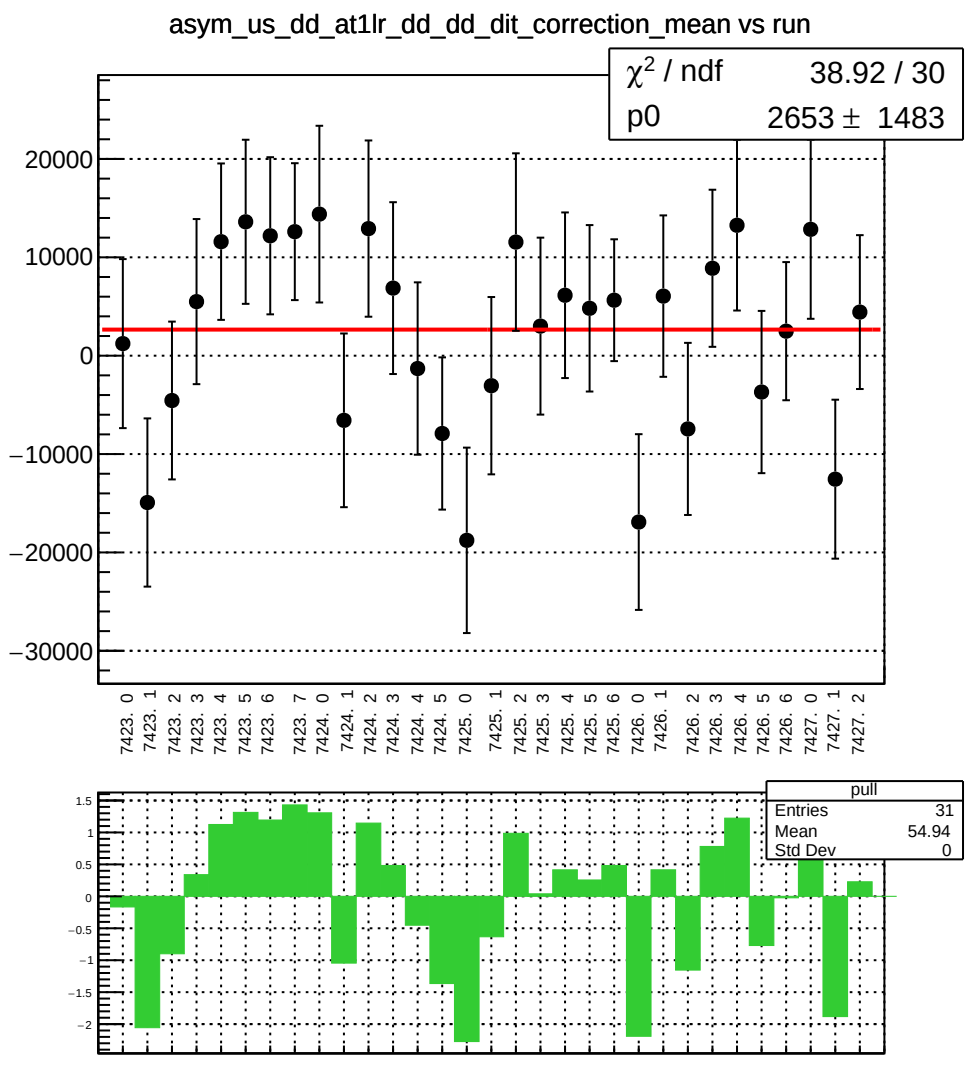

pull1D
Entries 31
Mean −0.02084
Std Dev 1.095
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

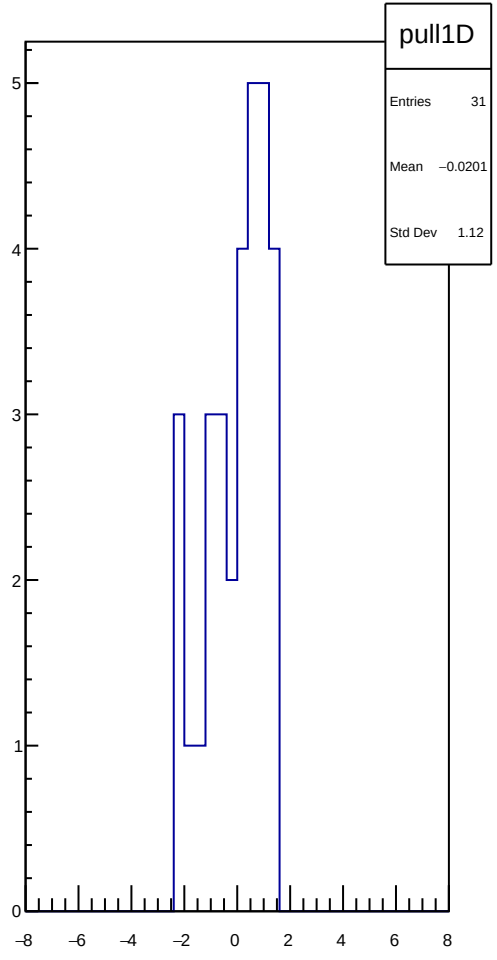

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1391 / 30
p0 797.9 ± 1.035
920
900
880
860
840
820
800
780
760
740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

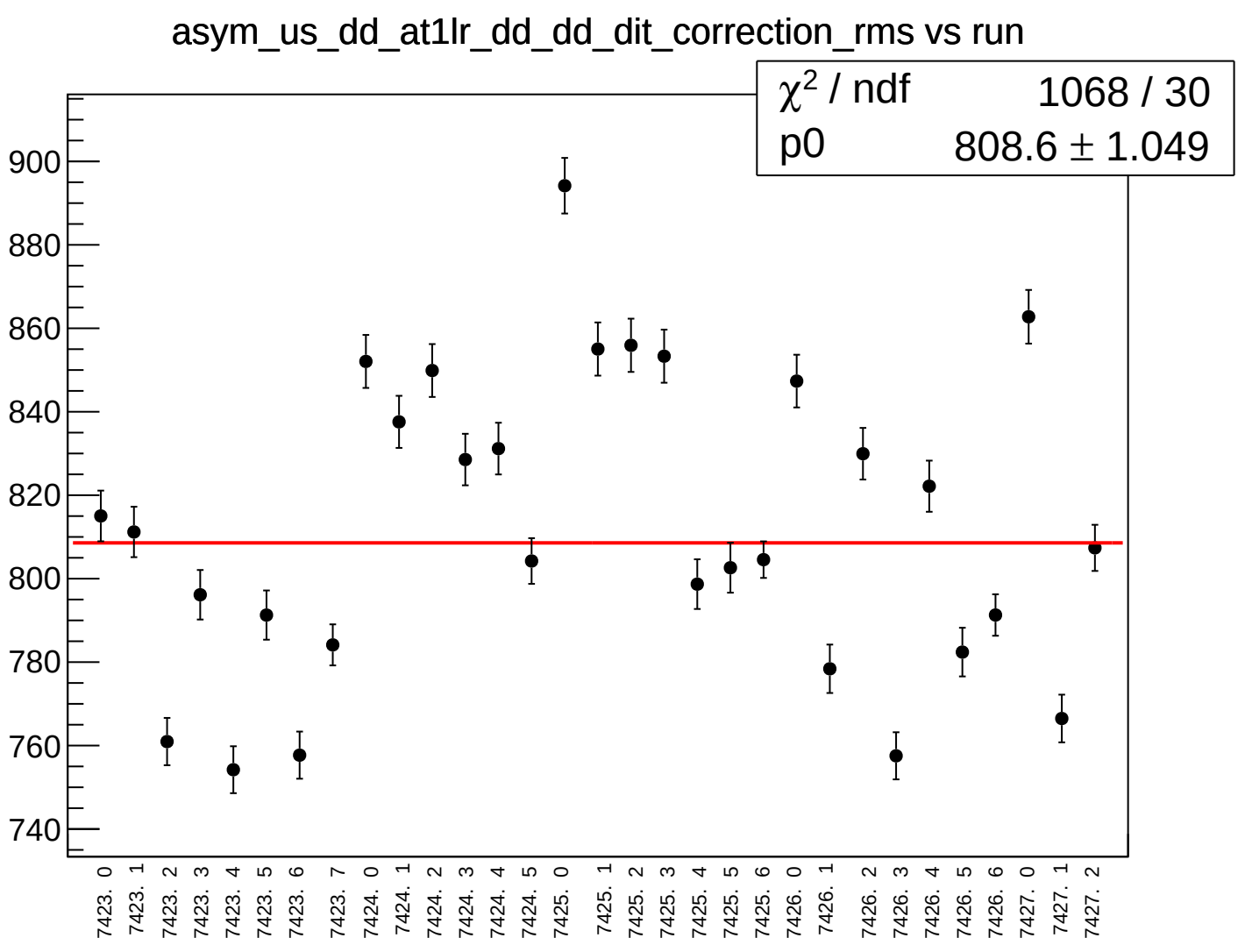

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 39.62 / 30
p0 −4359 ± 3152
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −193.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

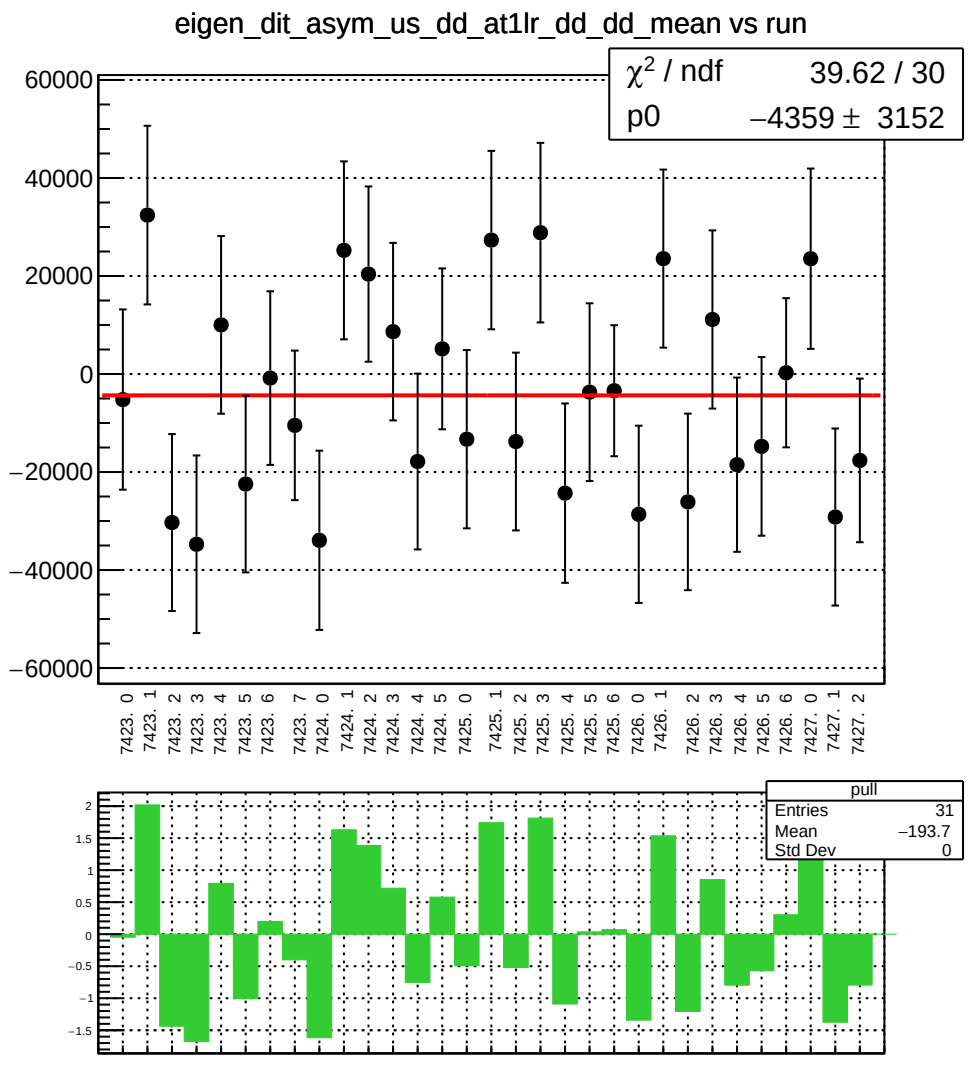

pull1D
Entries 31
Mean 0.002112
Std Dev 1.131
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

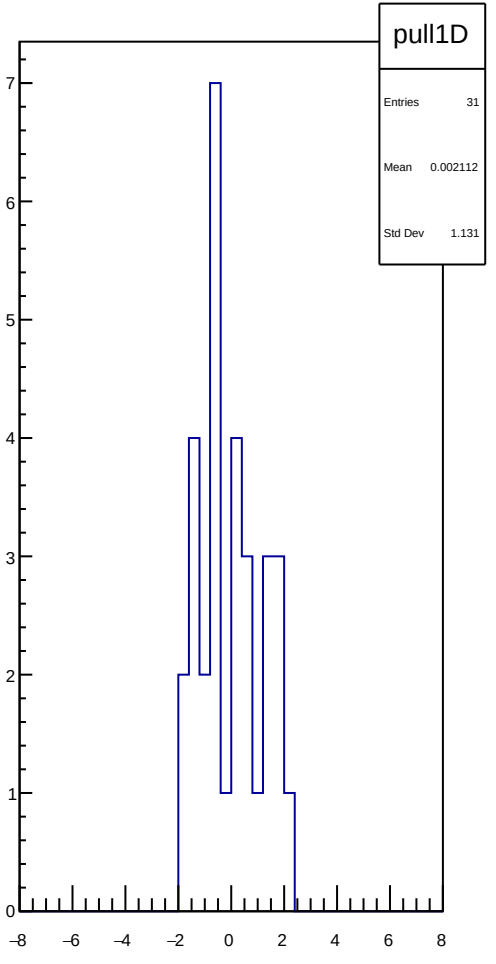

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 43.64 / 30
p0 1720 ± 2.229
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

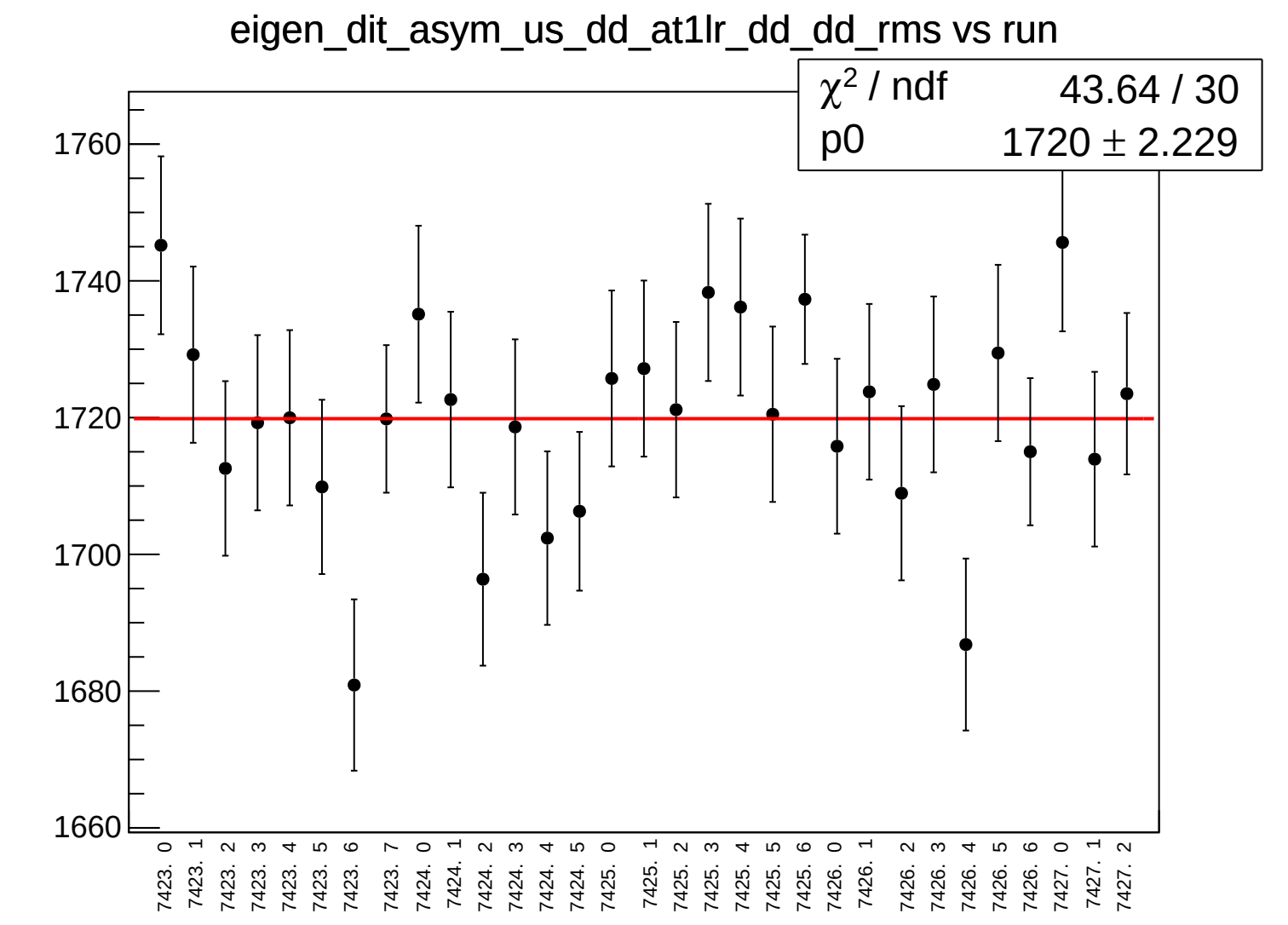

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 38.92 / 30
p0 2653 ± 1483
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 54.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

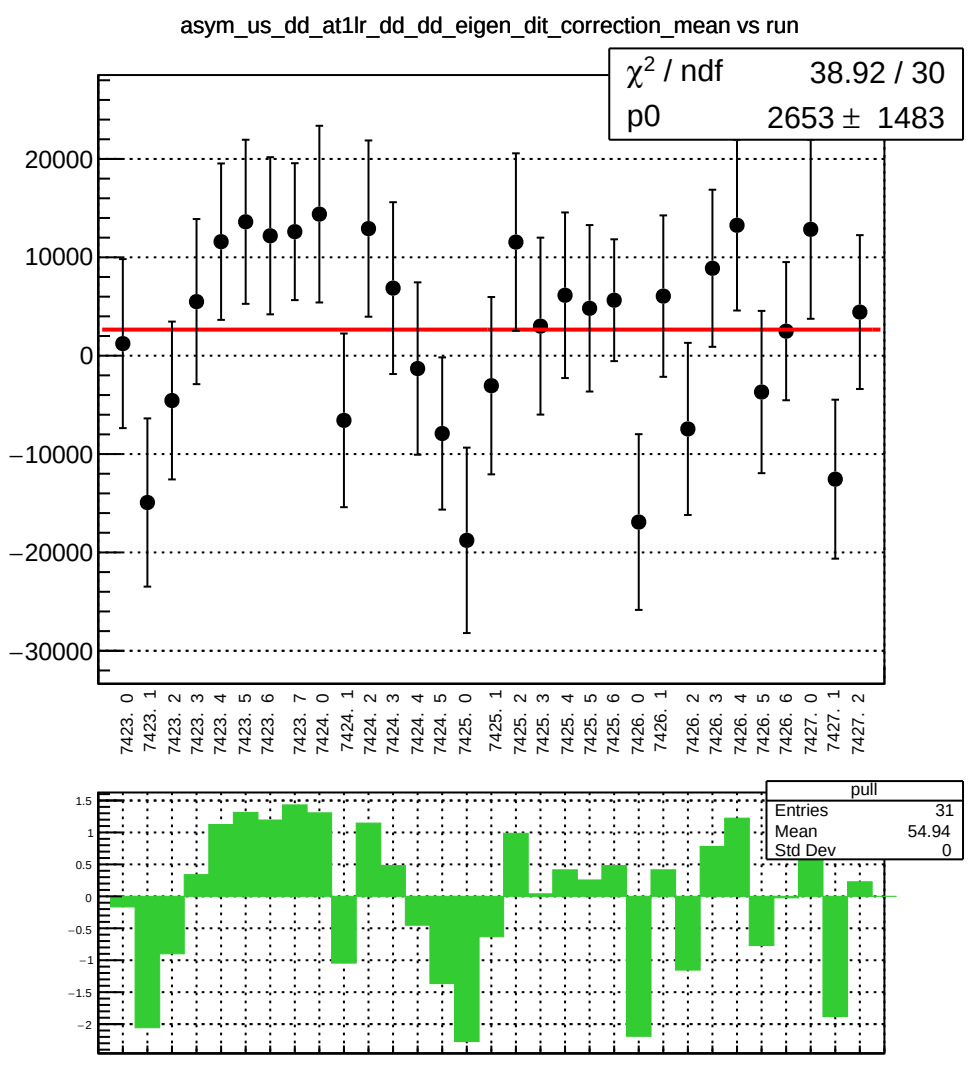

pull1D
Entries 31
Mean −0.0201
Std Dev 1.12
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

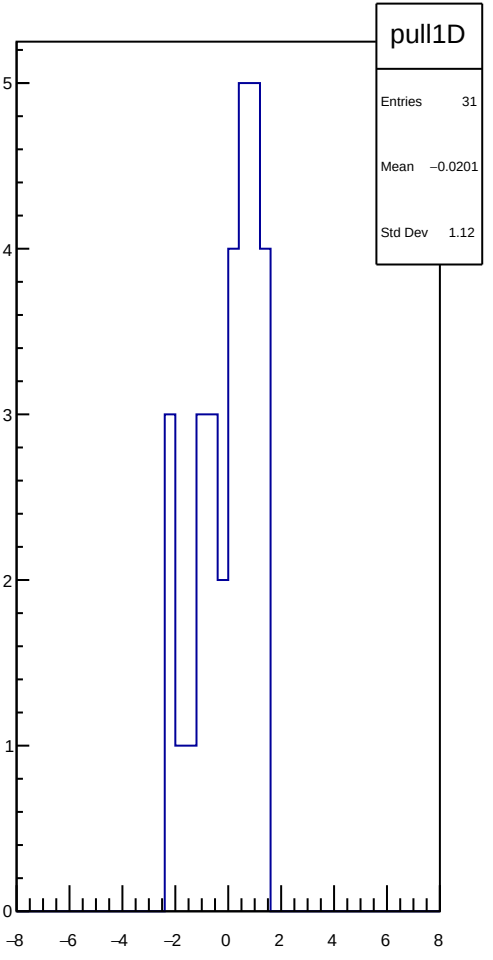

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1068 / 30
p0 808.6 ± 1.049
900
880
860
840
820
800
780
760
740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

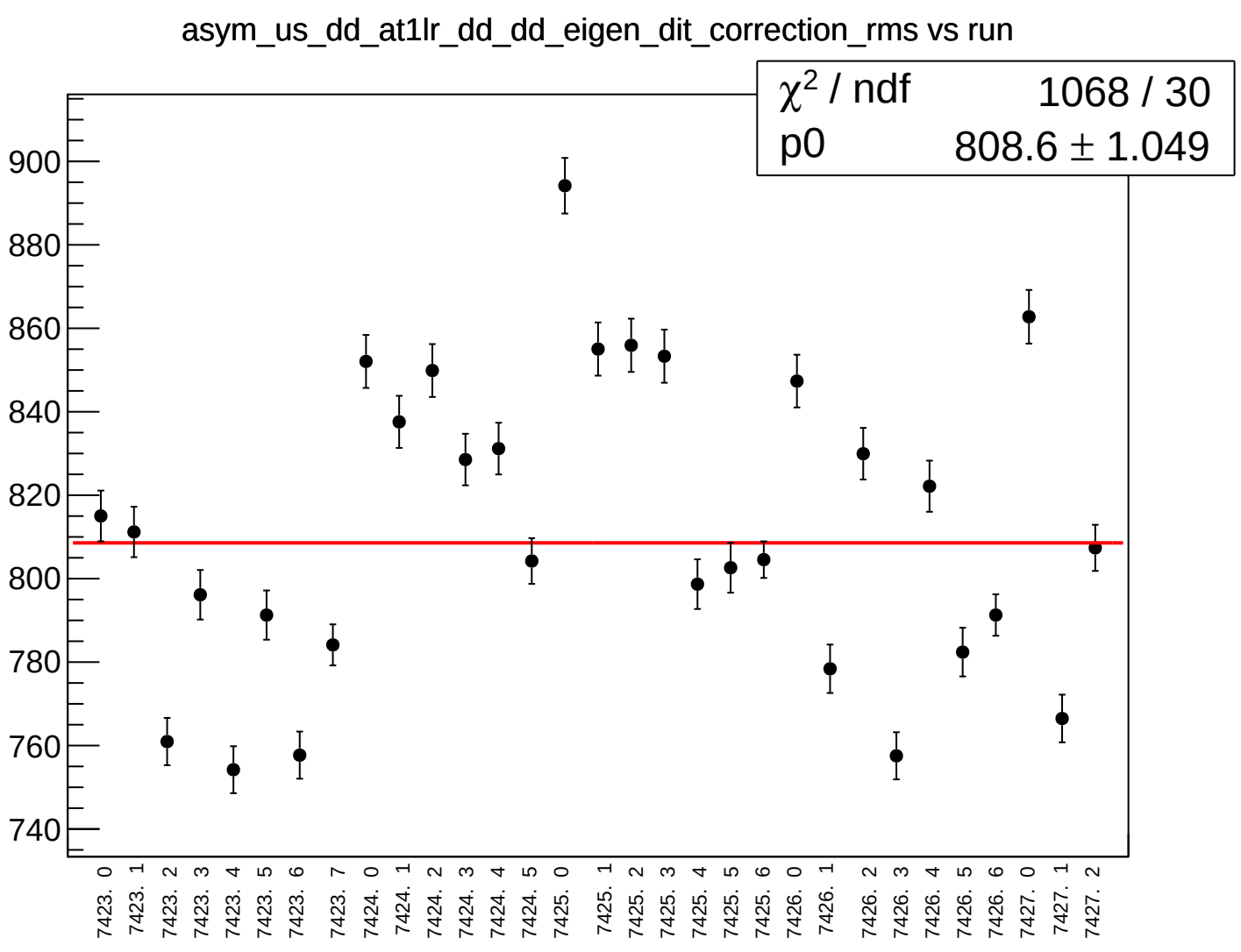

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 39.62 / 30
p0 −4359 ± 3152
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −193.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

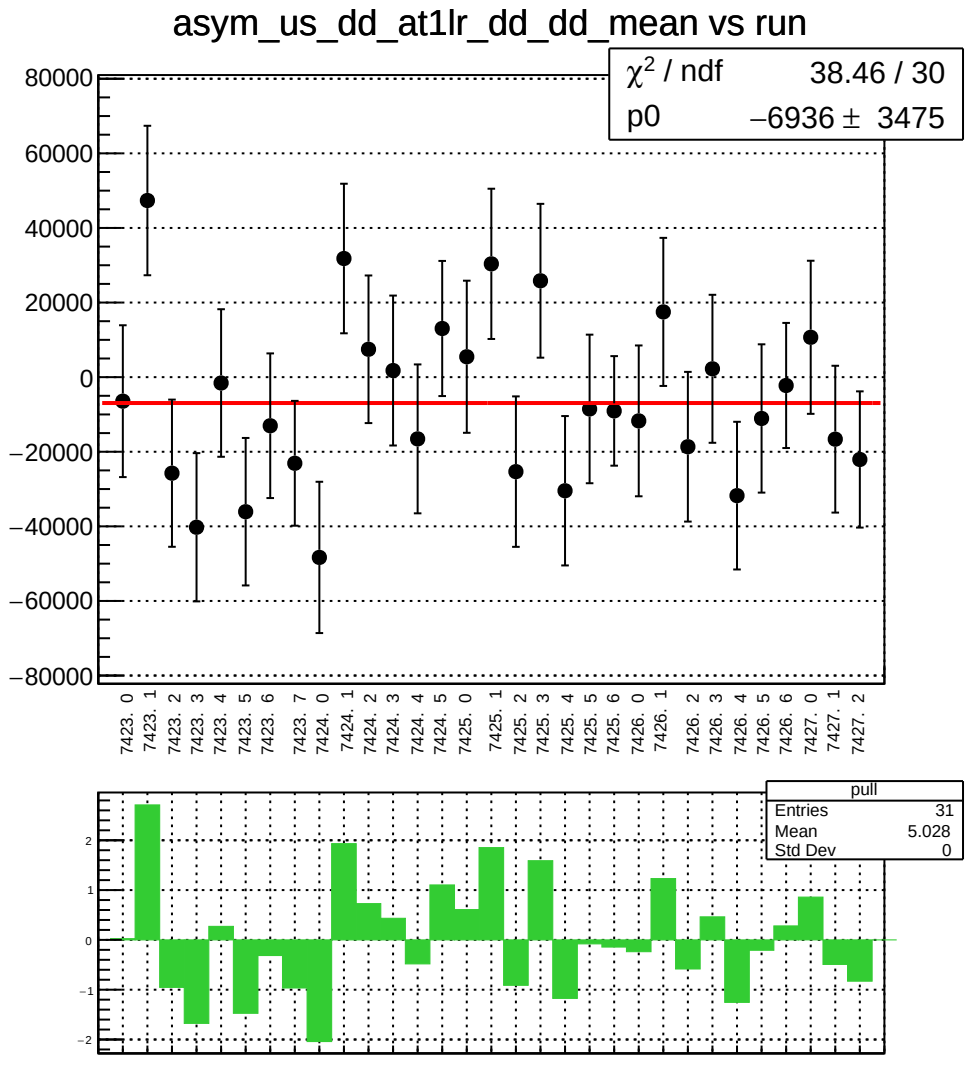

pull1D
Entries 31
Mean 0.002112
Std Dev 1.131
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

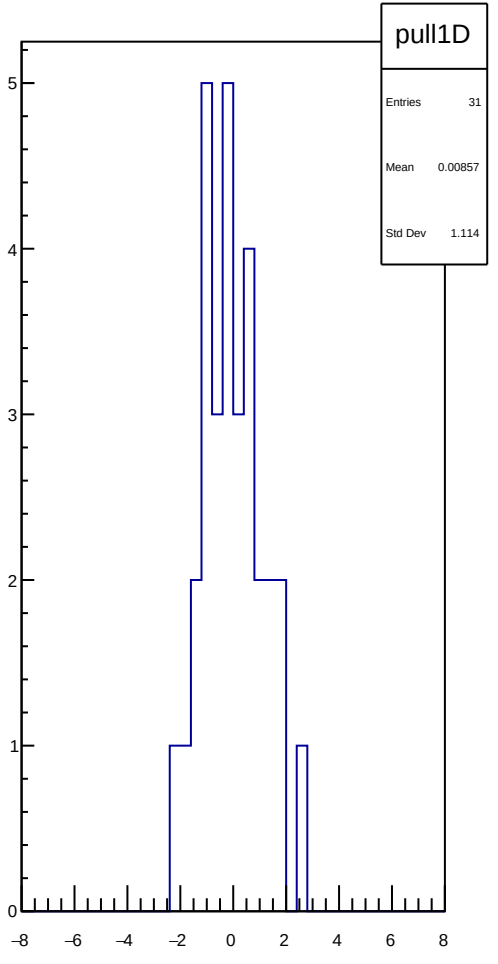

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 43.64 / 30
p0 1720 ± 2.229
1760
1740
1720
1700
1680
1660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

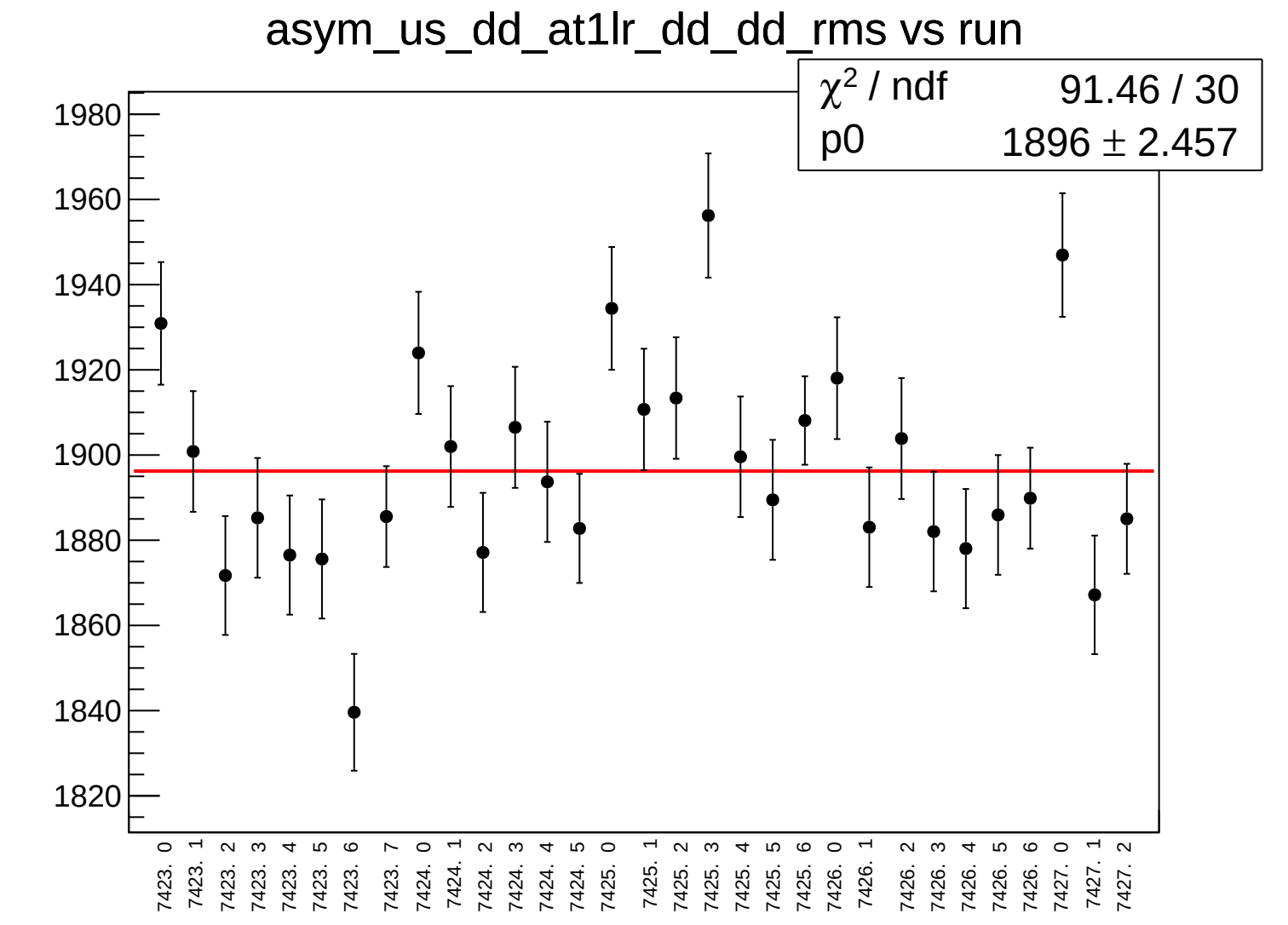

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 38.92 / 30
p0 2653 ± 1483
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 54.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

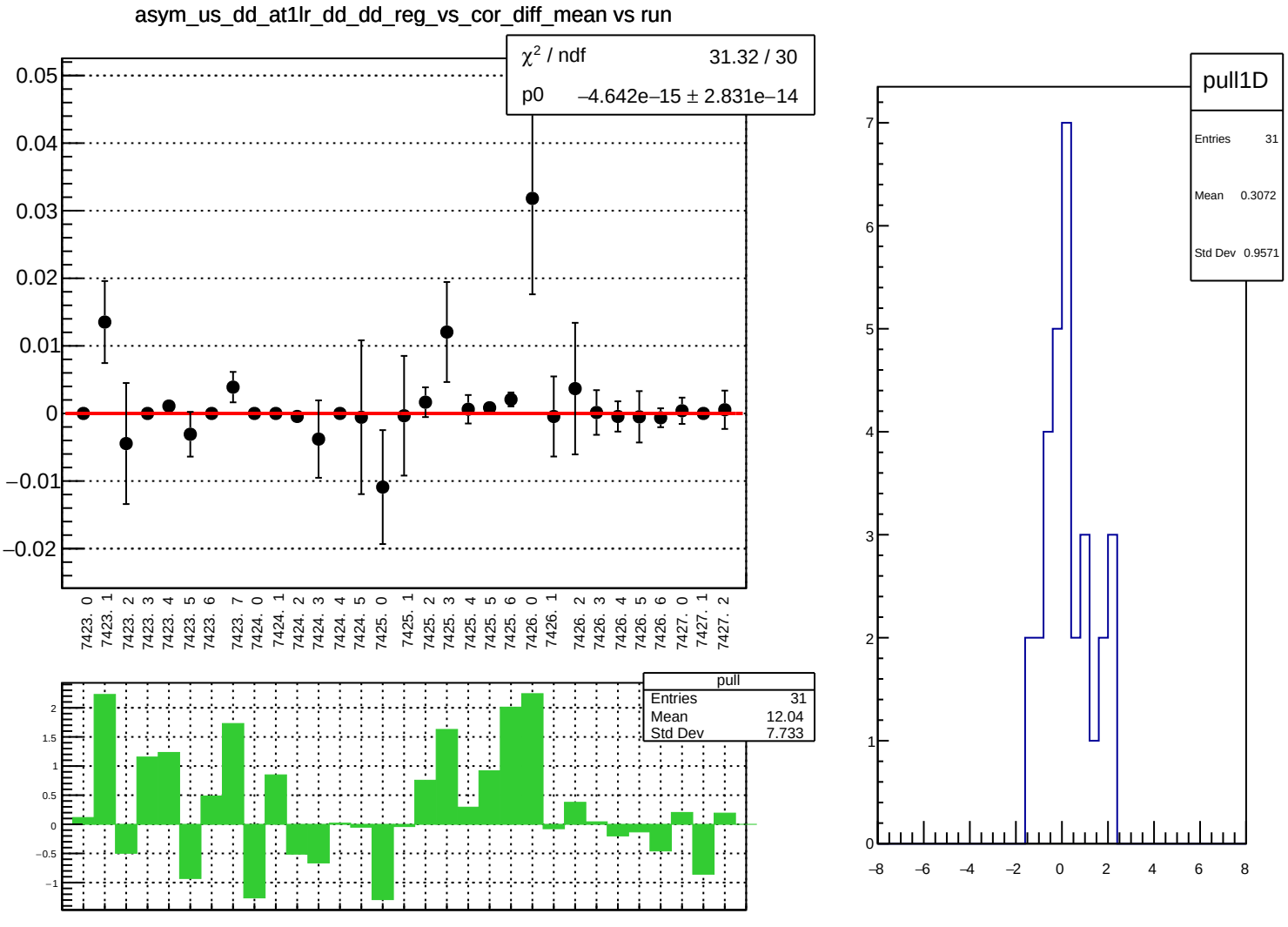

pull1D
Entries 31
Mean −0.0201
Std Dev 1.12
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

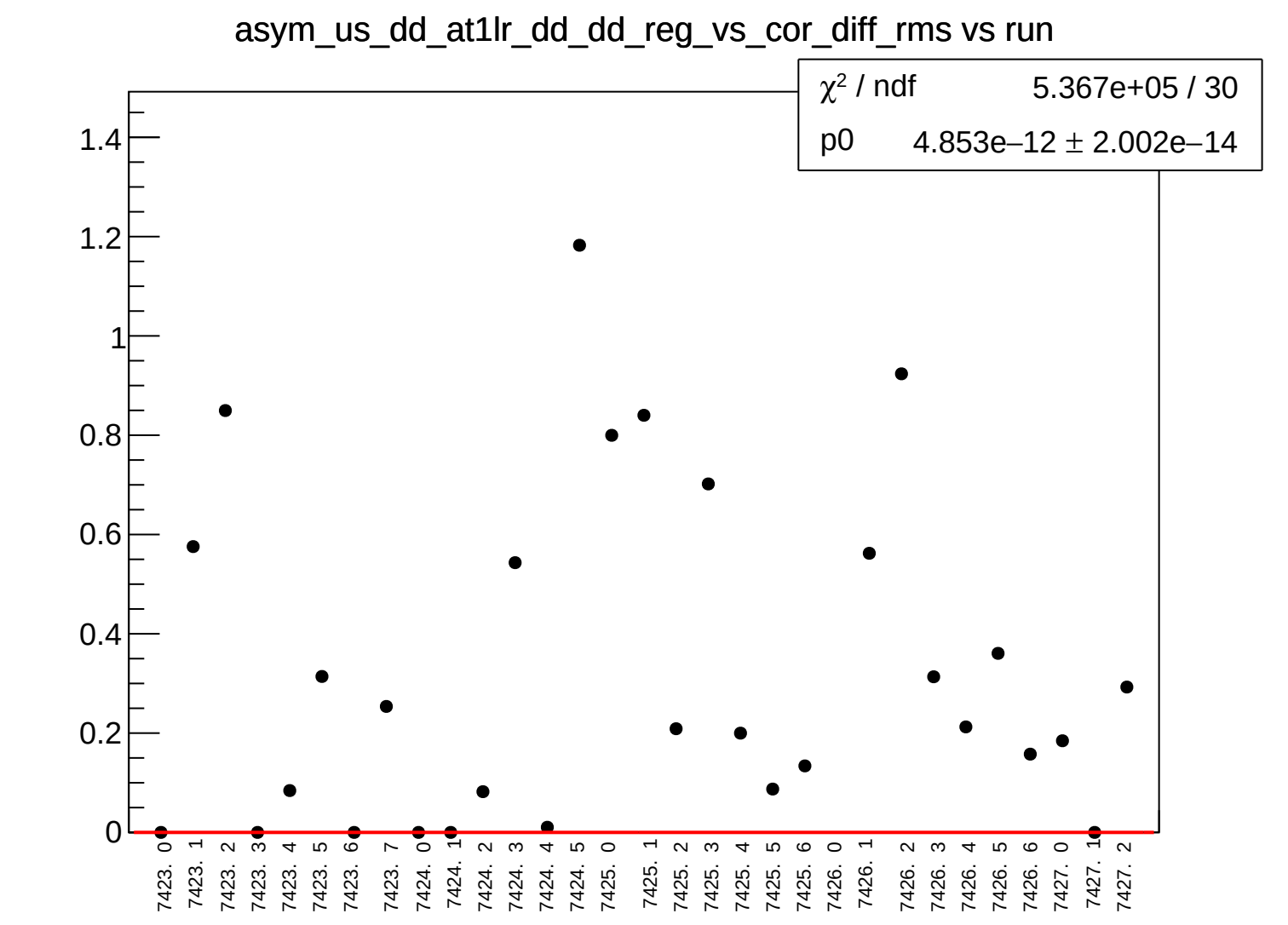

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1068 / 30
p0 808.6 ± 1.049
900
880
860
840
820
800
780
760
740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

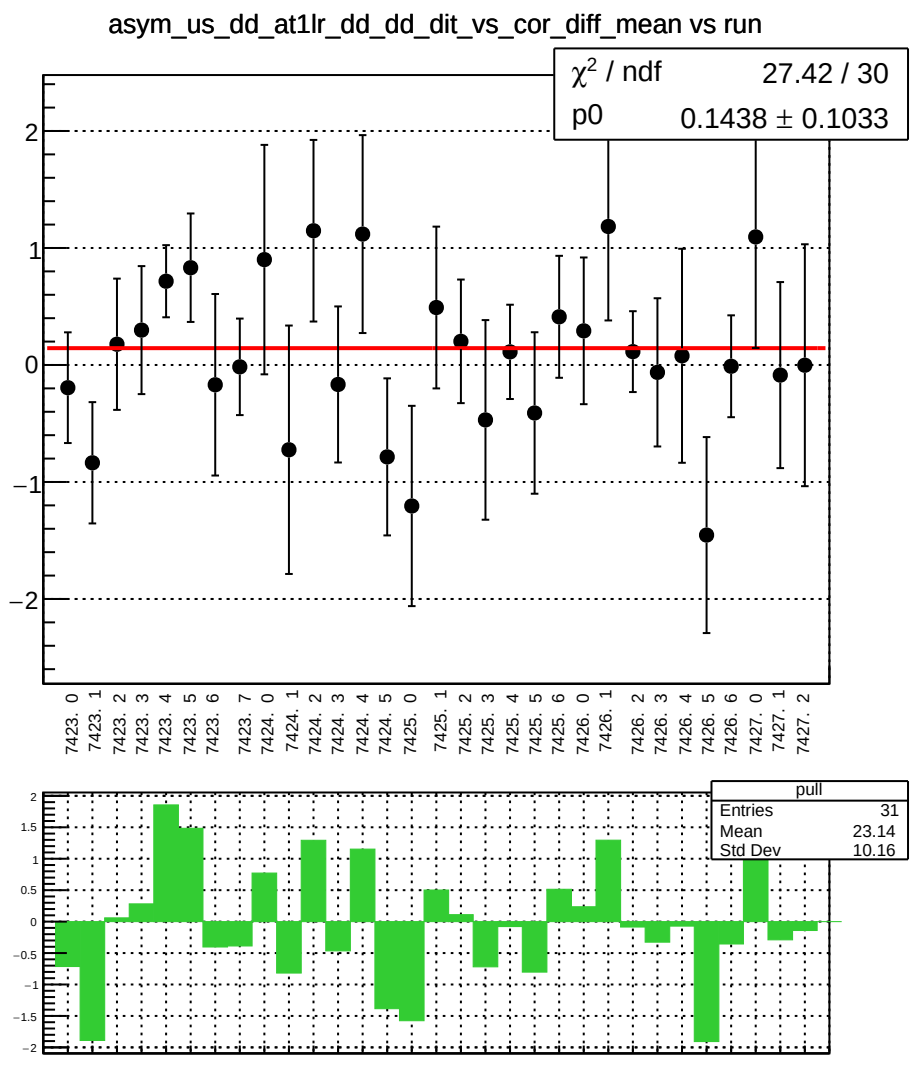

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 38.46 / 30
p0 −6936 ± 3475
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 5.028
Std Dev 0
2
1
0
−1
−2

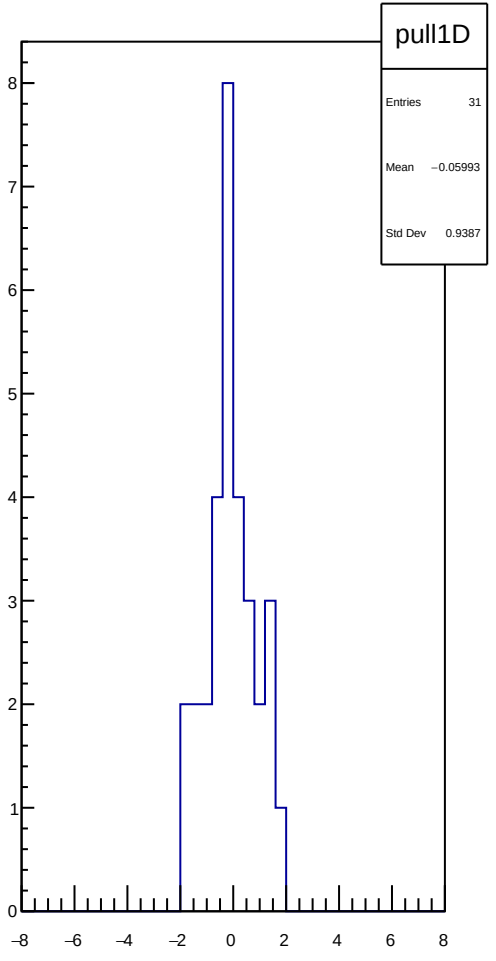

pull1D
Entries 31
Mean 0.00857
Std Dev 1.114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

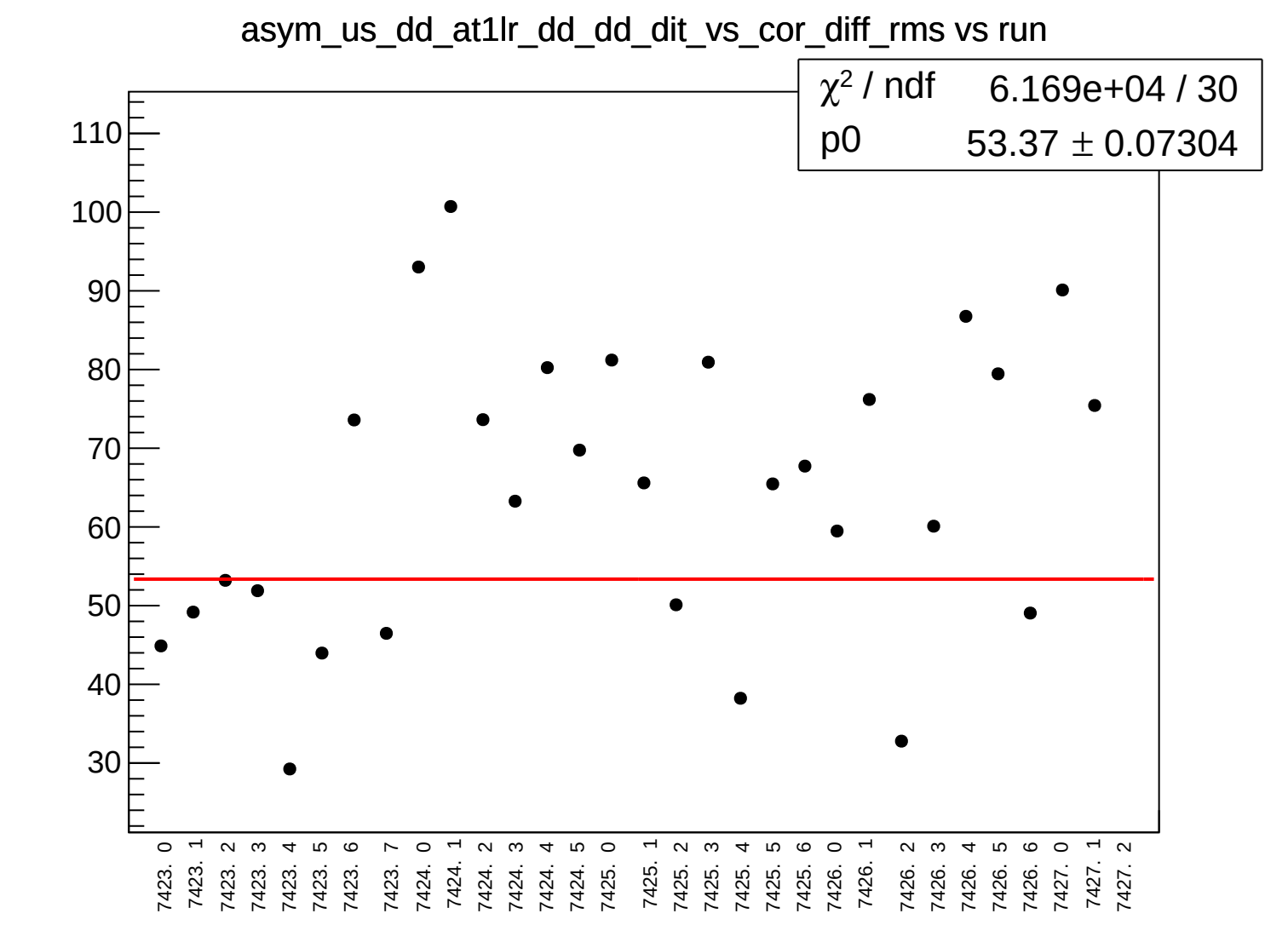

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 91.46 / 30
p0 1896 ± 2.457
1980
1960
1940
1920
1900
1880
1860
1840
1820
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

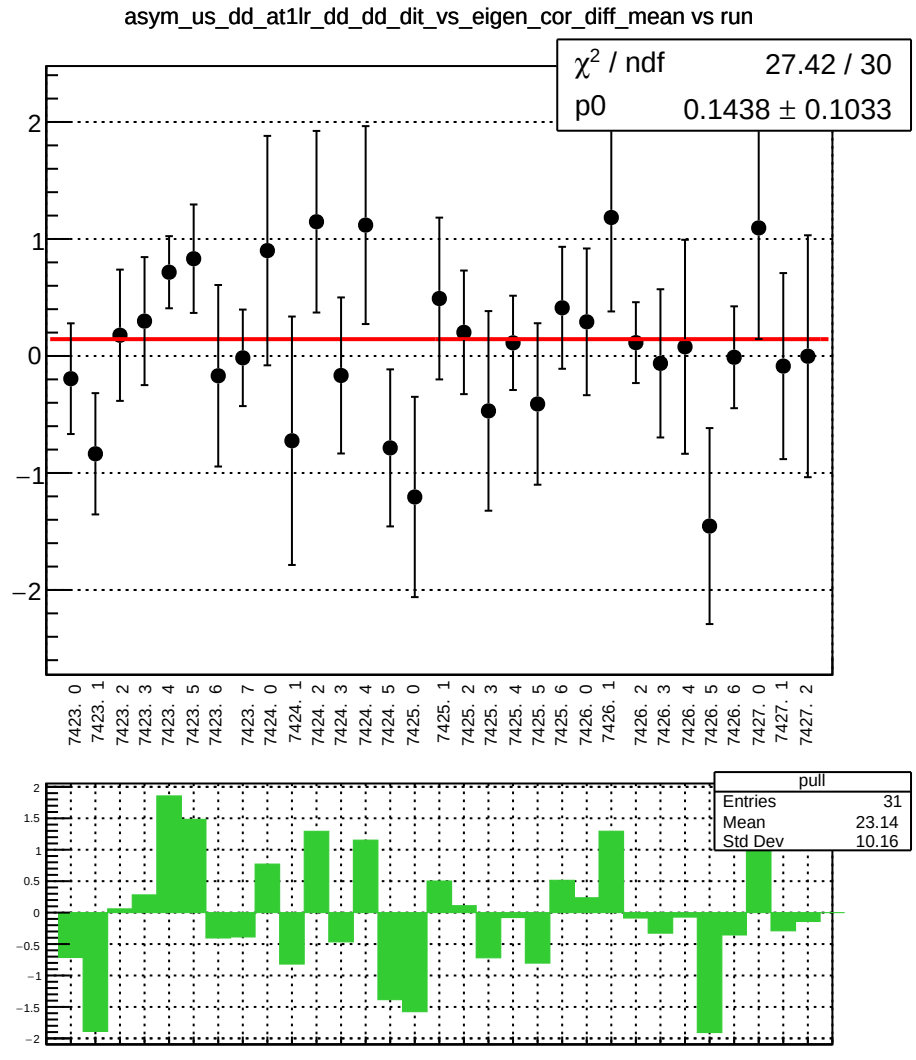

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.32 / 30
p0 −4.642e−15 ± 2.831e−14
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 12.04
Std Dev 7.733
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.3072
Std Dev 0.9571
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

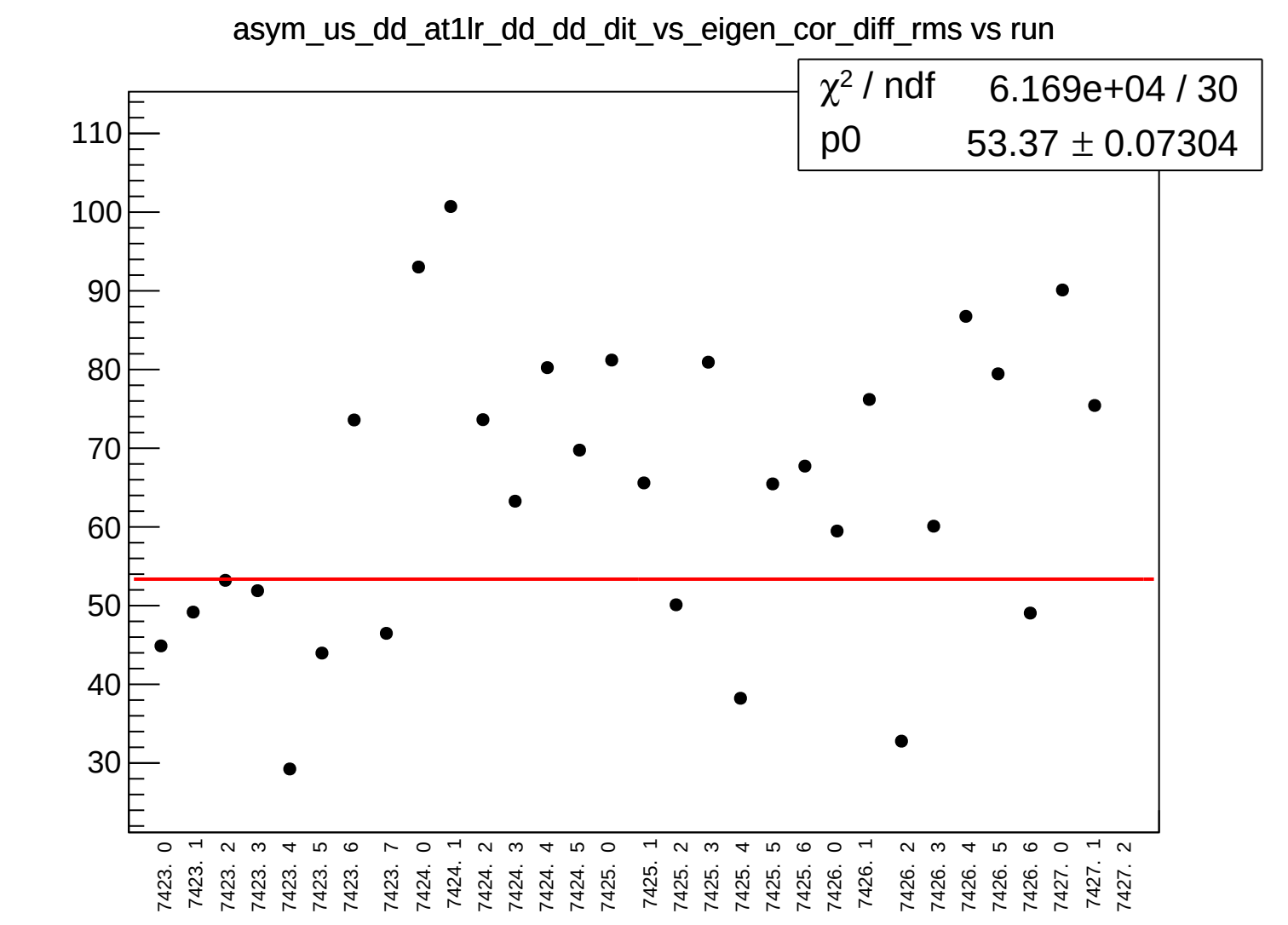

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.367e+05 / 30
p0 4.853e−12 ± 2.002e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

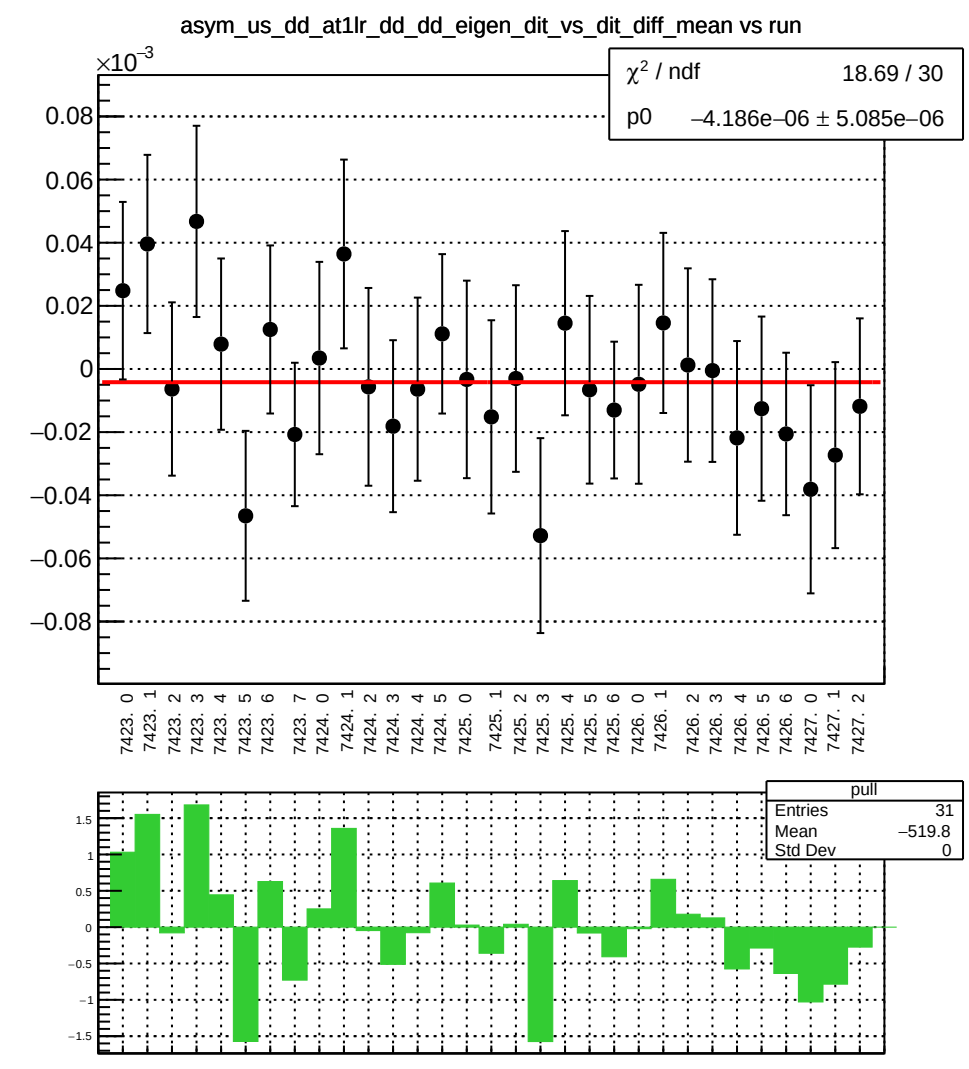

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 27.42 / 30
p0 0.1438 ± 0.1033
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 23.14
Std Dev 10.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

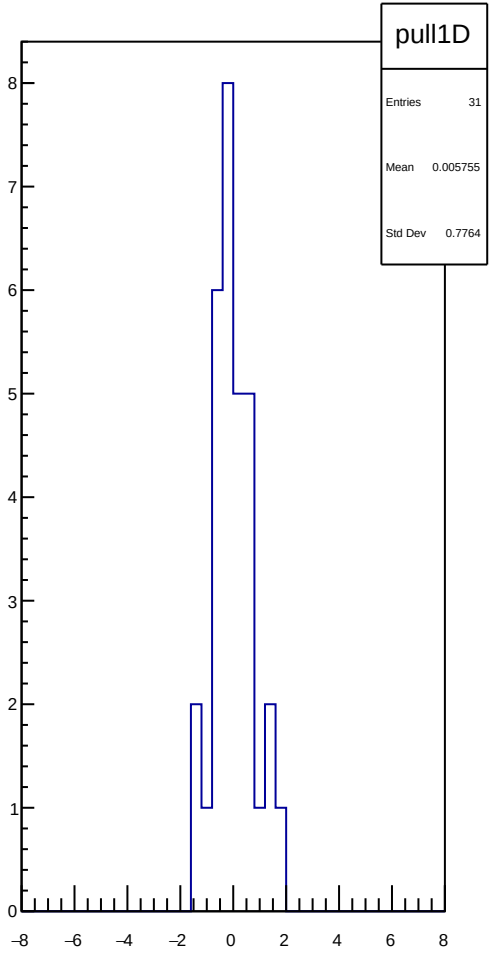

pull1D
Entries 31
Mean −0.05993
Std Dev 0.9387
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

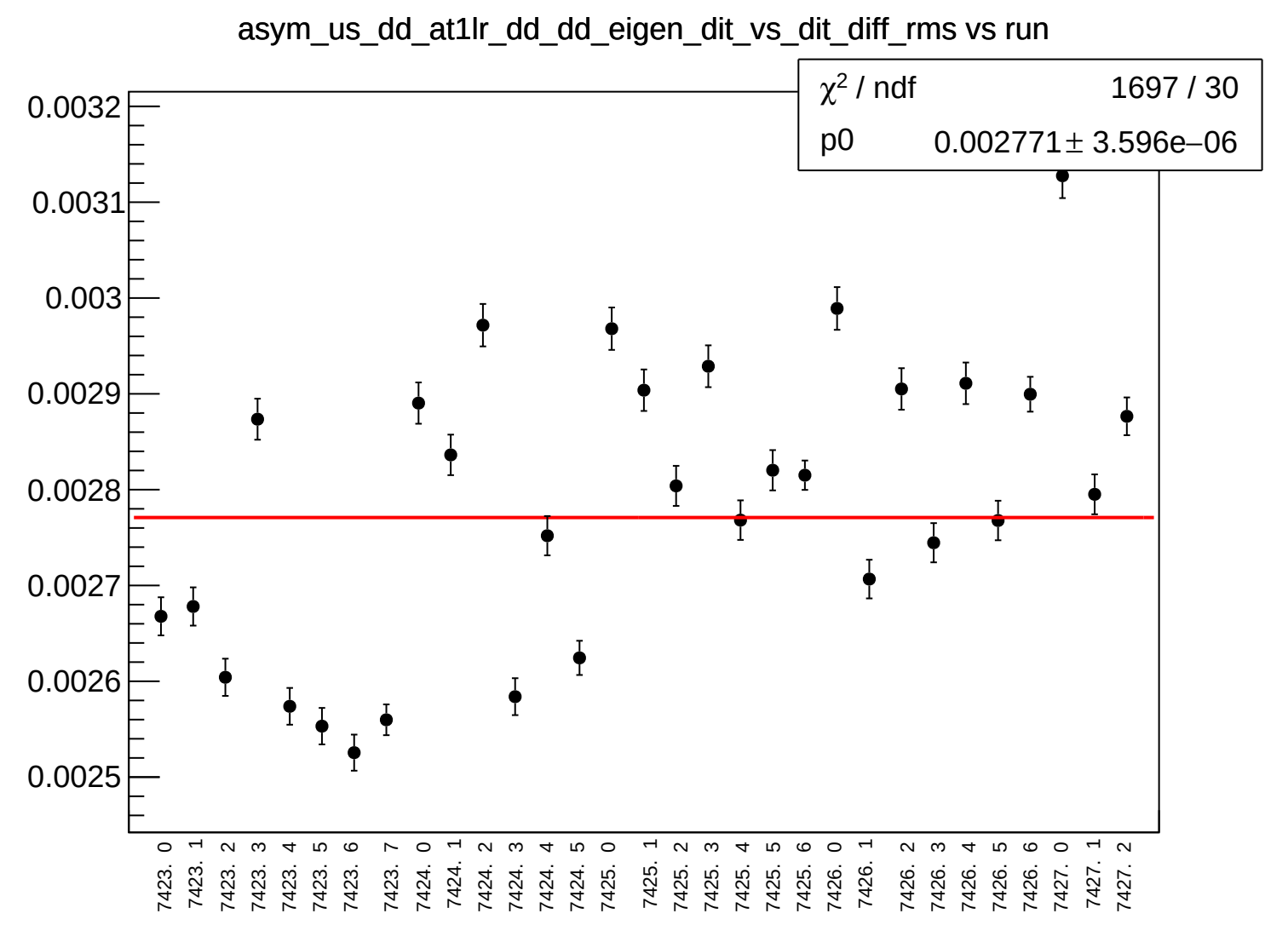

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.169e+04 / 30
p0 53.37 ± 0.07304
110
100
90
80
70
60
50
40
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

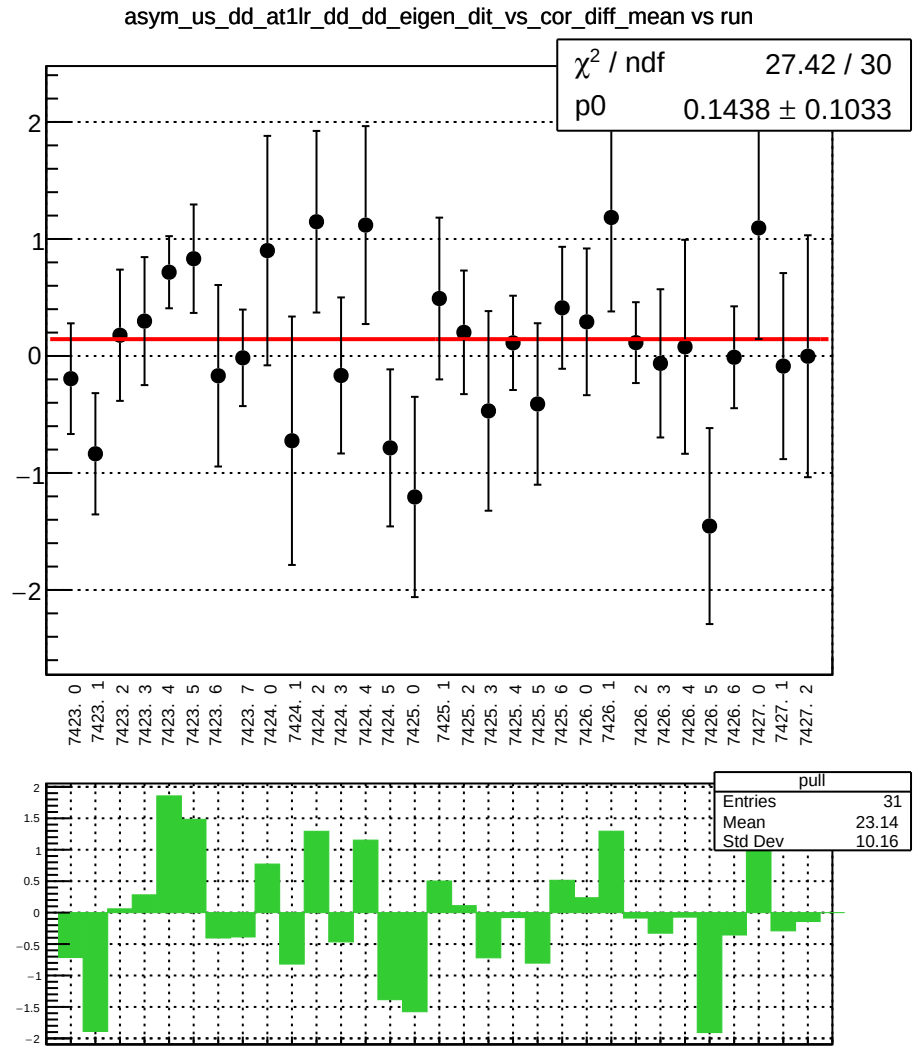

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.42 / 30
p0 0.1438 ± 0.1033
pull
Entries 31
Mean 23.14
Std Dev 10.16
pull1D
Entries 31
Mean −0.05993
Std Dev 0.9387

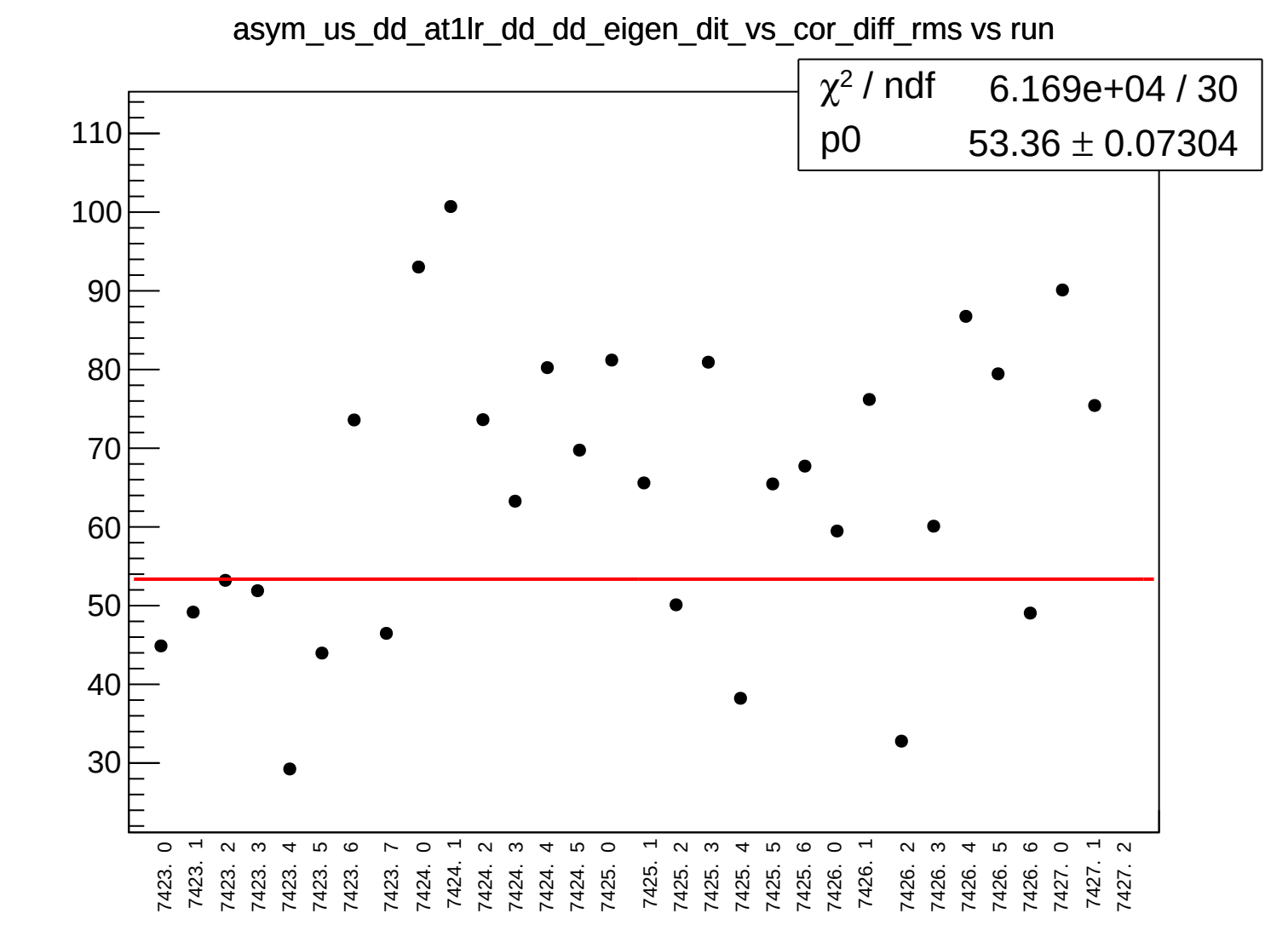

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.169e+04 / 30
p0 53.37 ± 0.07304
110
100
90
80
70
60
50
40
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

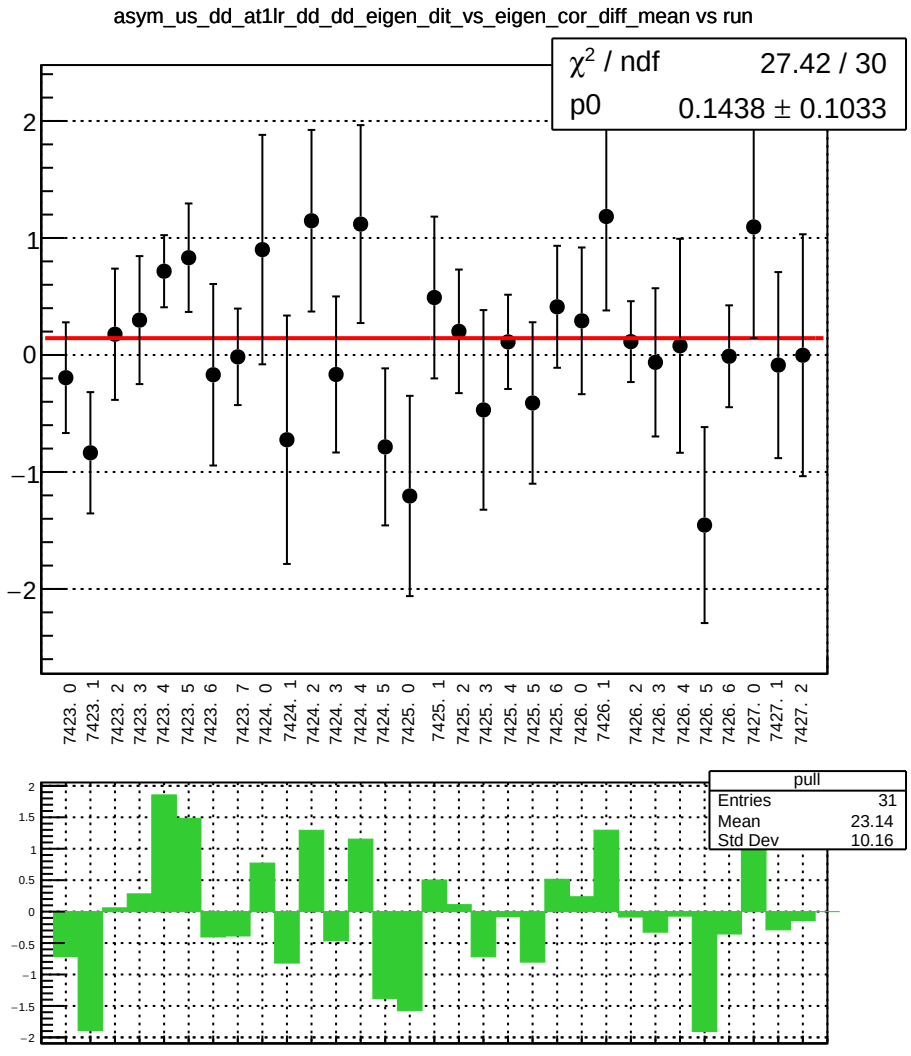

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 18.69 / 30
p0 −4.186e−06 ± 5.085e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −519.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

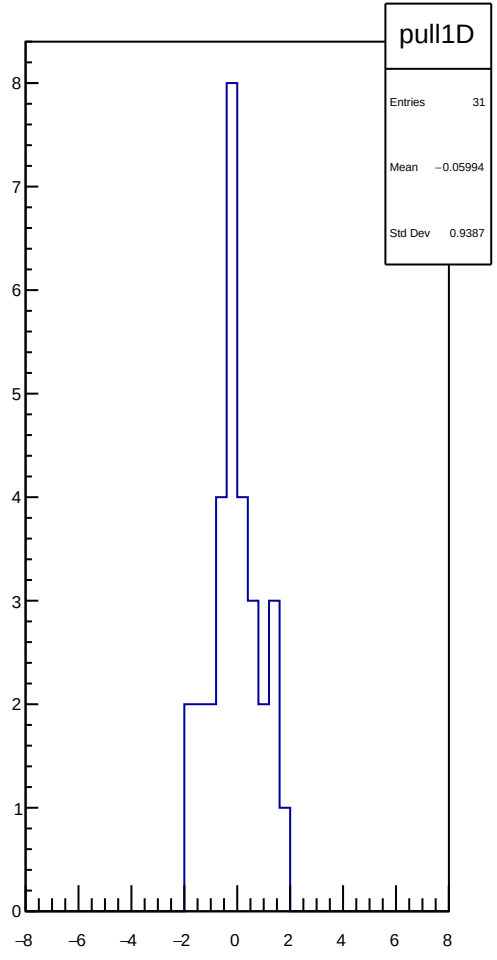

pull1D
Entries 31
Mean 0.005755
Std Dev 0.7764
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

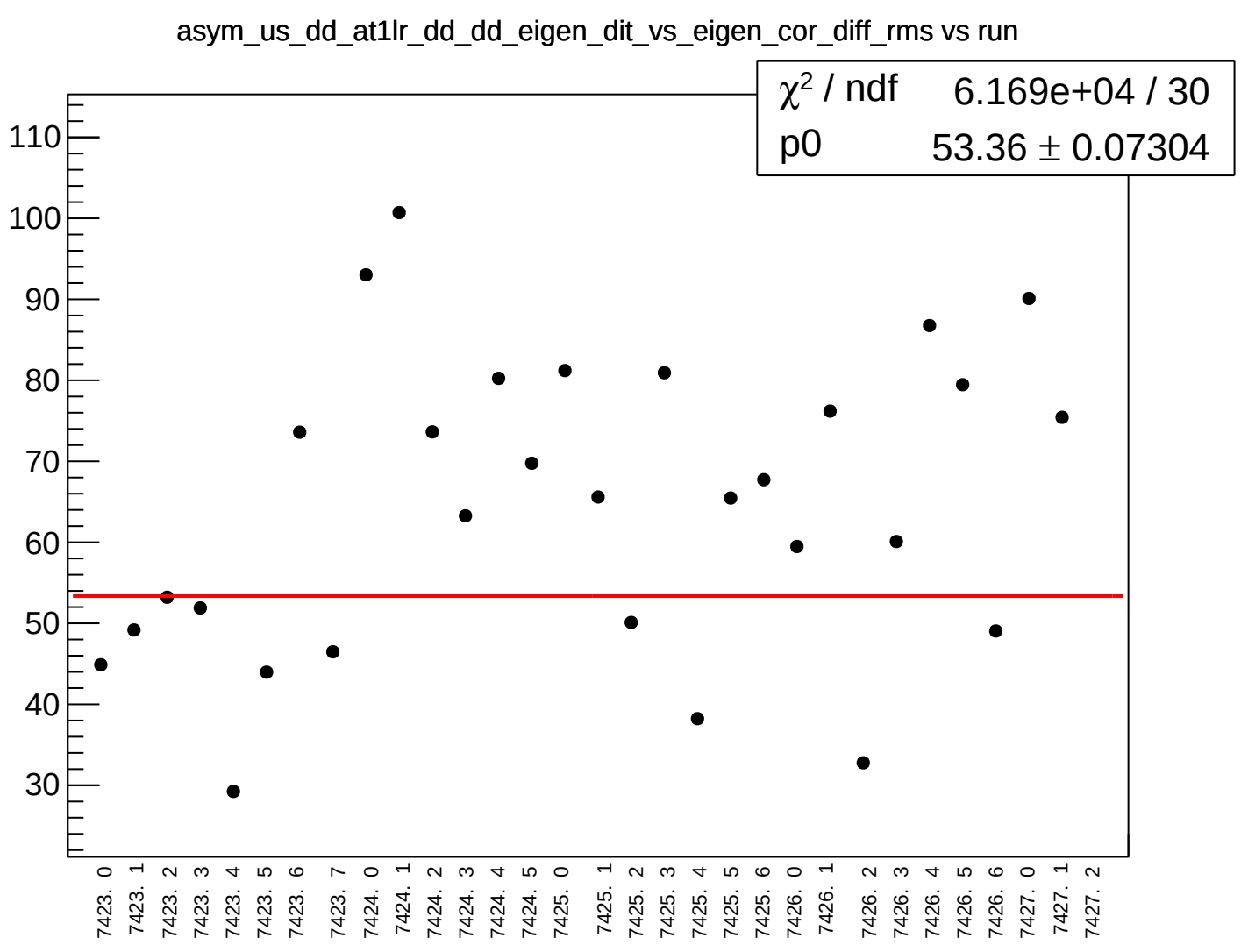

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1697 / 30
p0 0.002771 ± 3.596e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.42 / 30
p0 0.1438 ± 0.1033
pull
Entries 31
Mean 23.14
Std Dev 10.16
pull1D
Entries 31
Mean −0.05994
Std Dev 0.9387

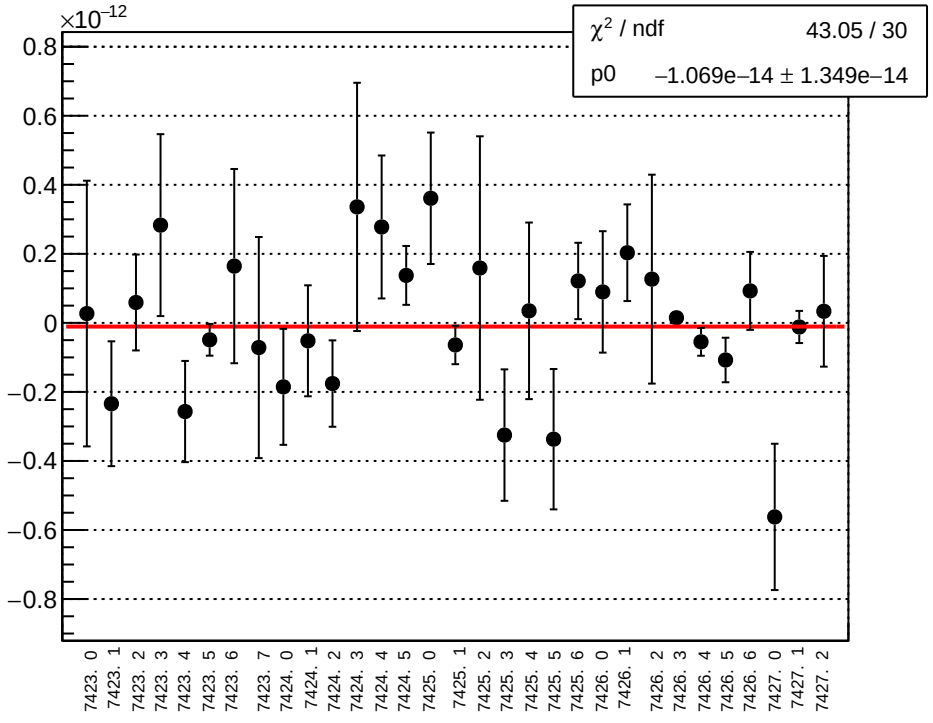

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.169e+04 / 30
p0 53.36 ± 0.07304
110
100
90
80
70
60
50
40
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

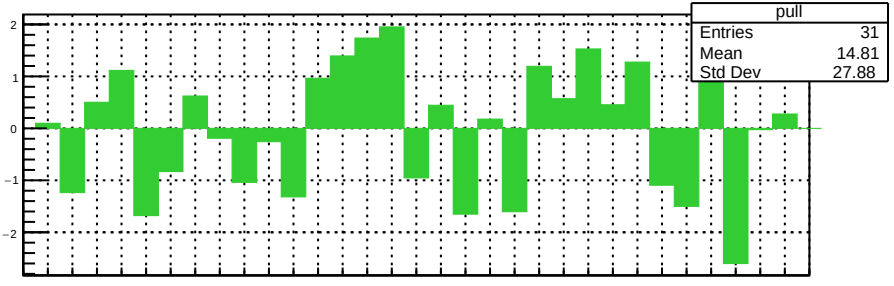

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.42 / 30
p0 0.1438 ± 0.1033
pull
Entries 31
Mean 23.14
Std Dev 10.16

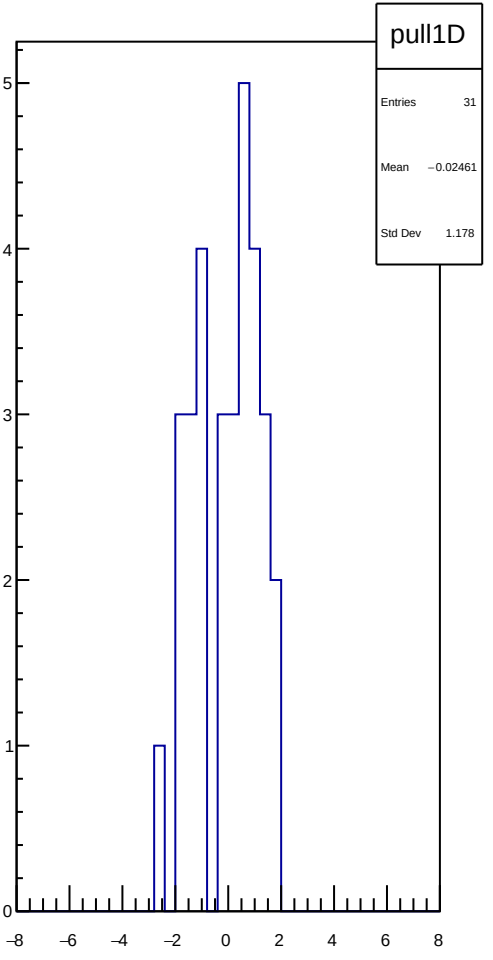

pull1D
Entries 31
Mean −0.05994
Std Dev 0.9387

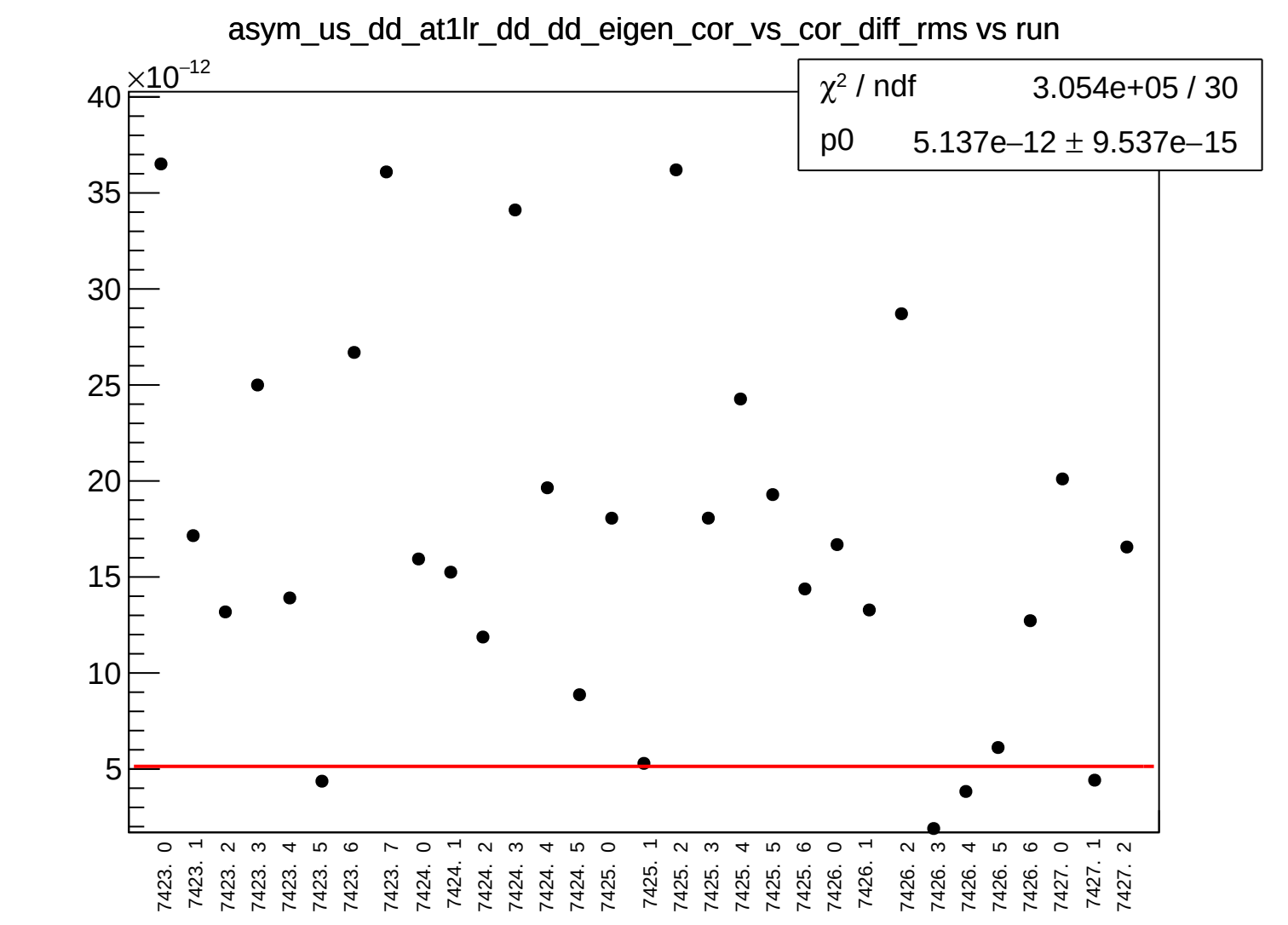

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.169e+04 / 30
p0 53.36 ± 0.07304
110
100
90
80
70
60
50
40
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

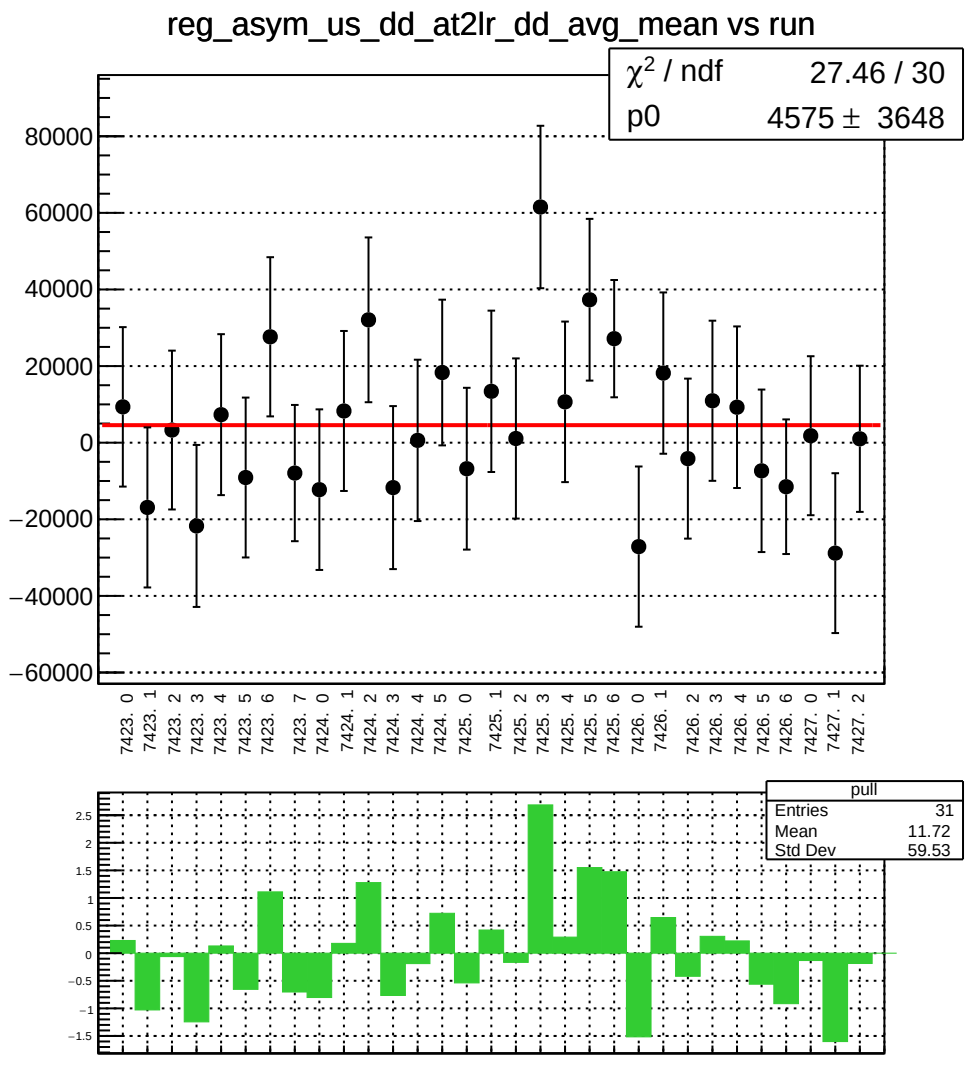
asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run

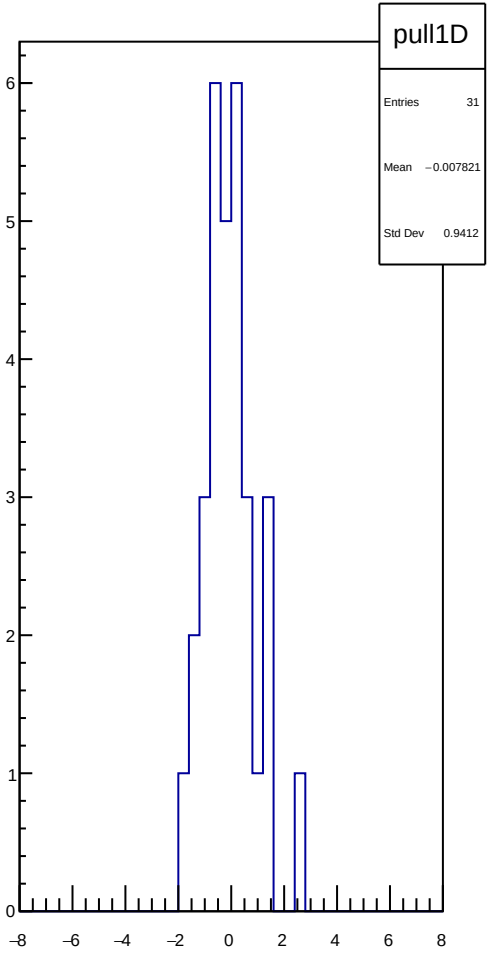


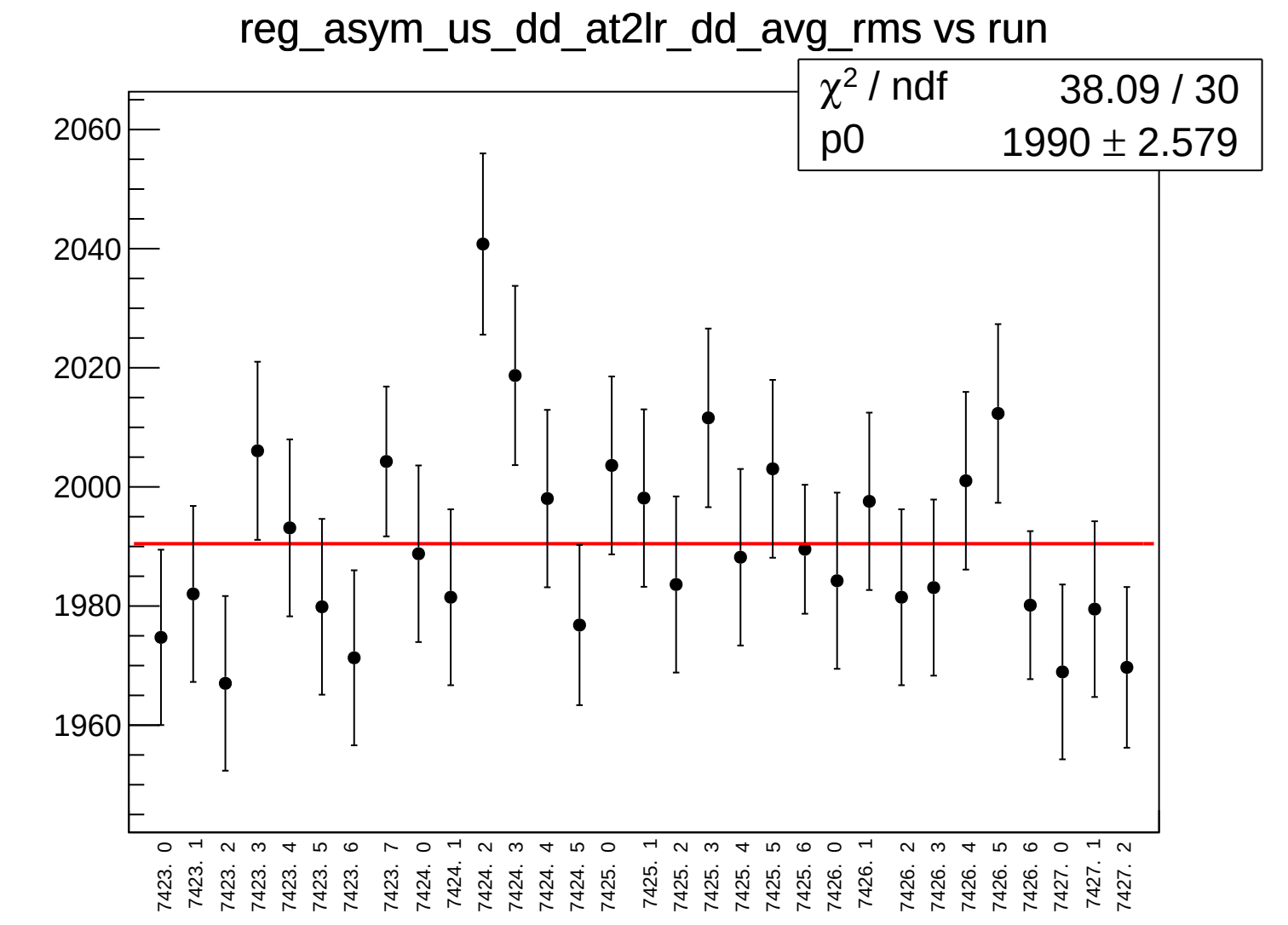


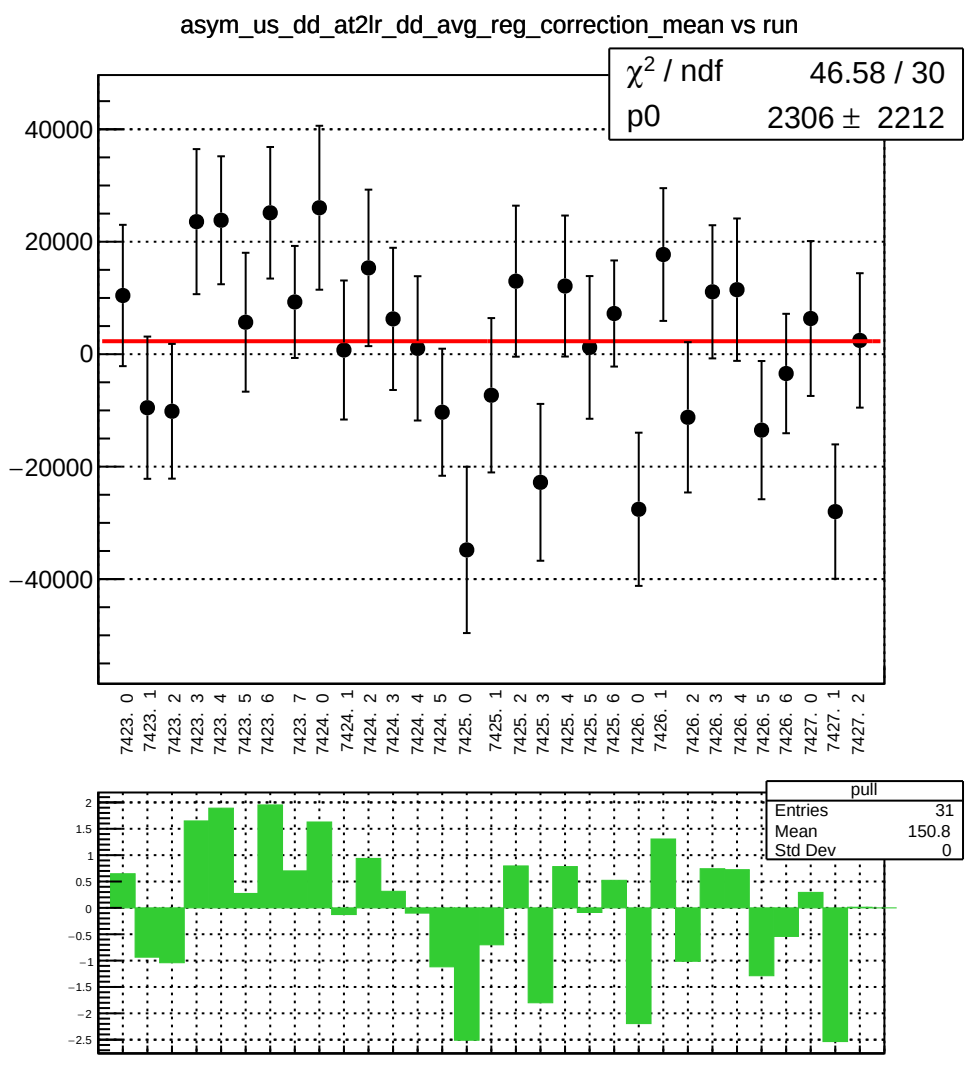


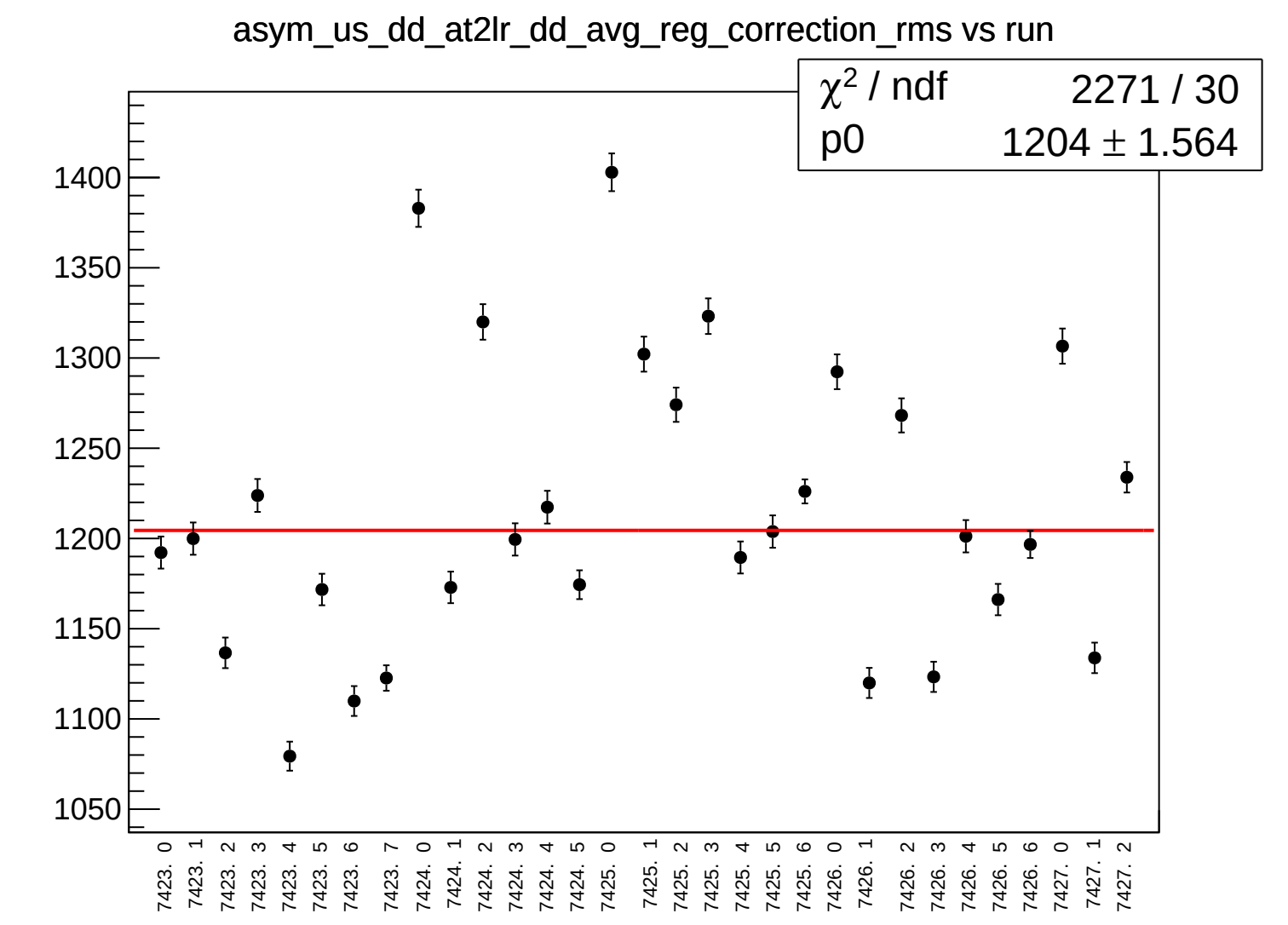

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 3.054e+05 / 30
p0 5.137e−12 ± 9.537e−15
40
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

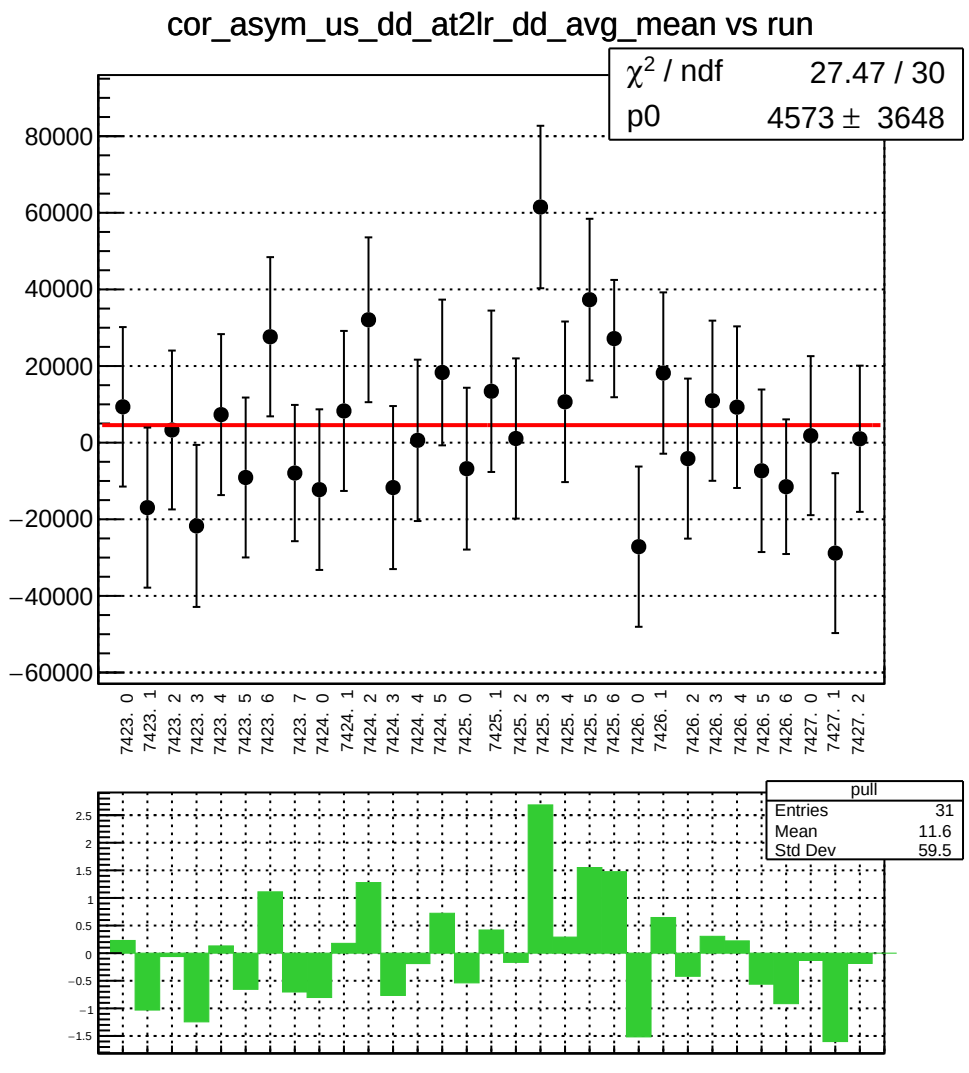

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 27.46 / 30
p0 4575 ± 3648
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.72
Std Dev 59.53
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

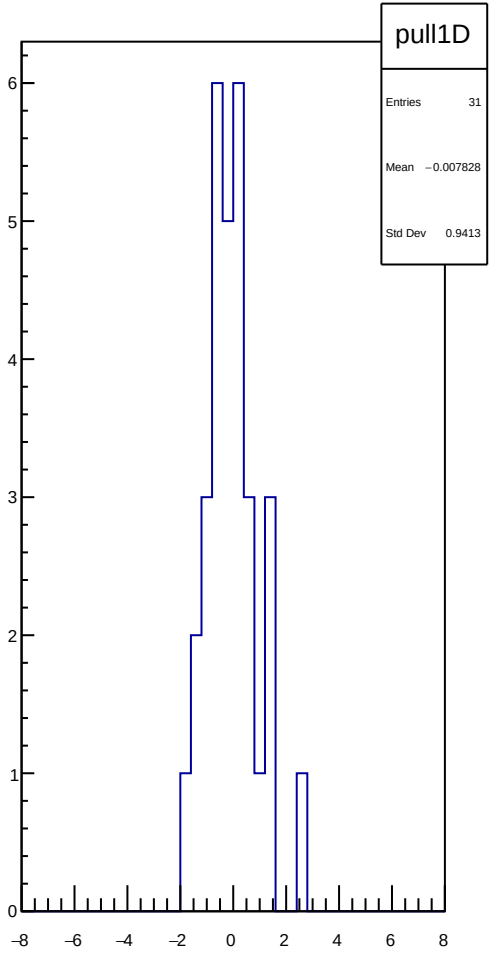

pull1D
Entries 31
Mean −0.007821
Std Dev 0.9412
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

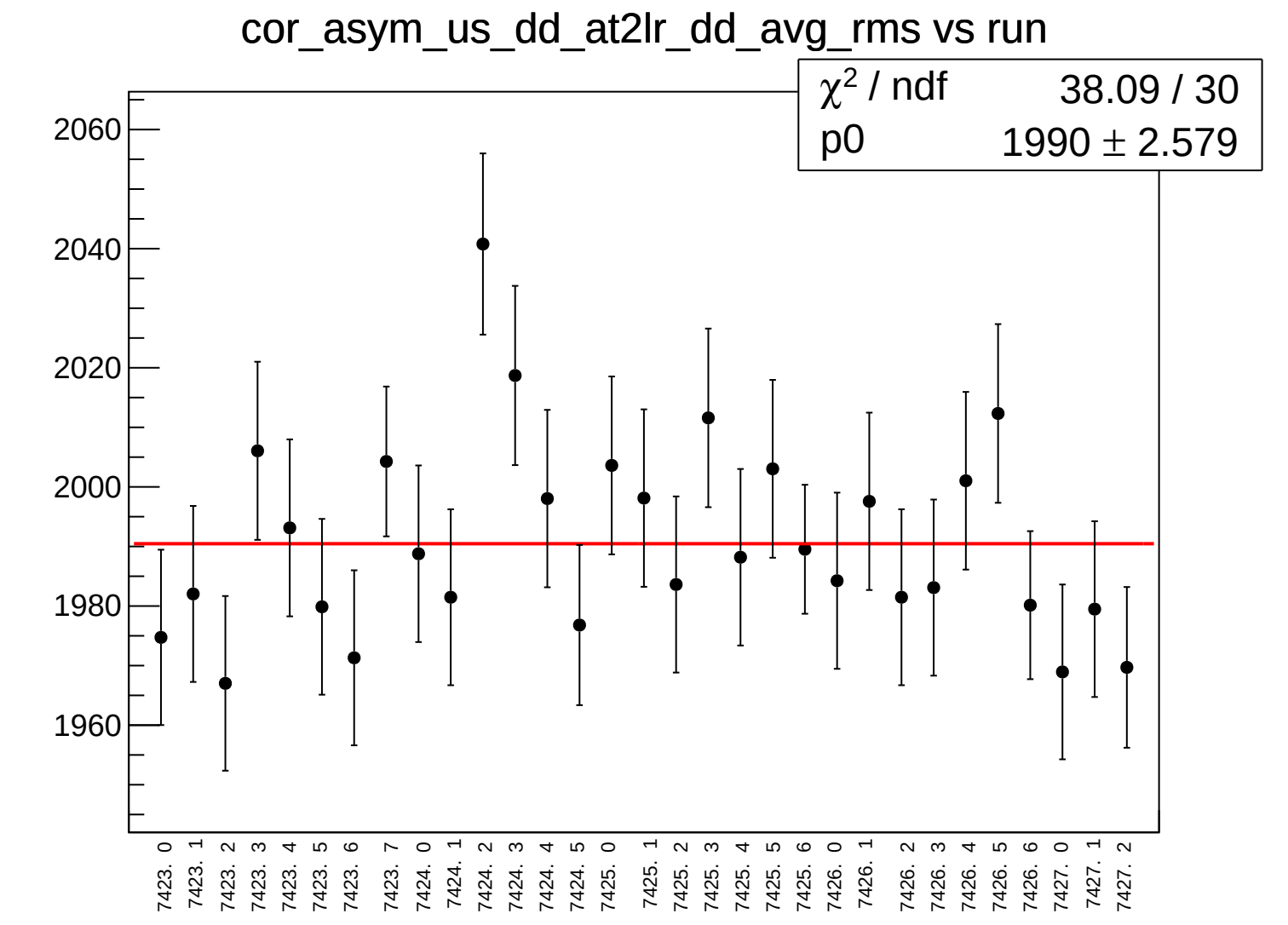

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 38.09 / 30
p0 1990 ± 2.579
2060
2040
2020
2000
1980
1960
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

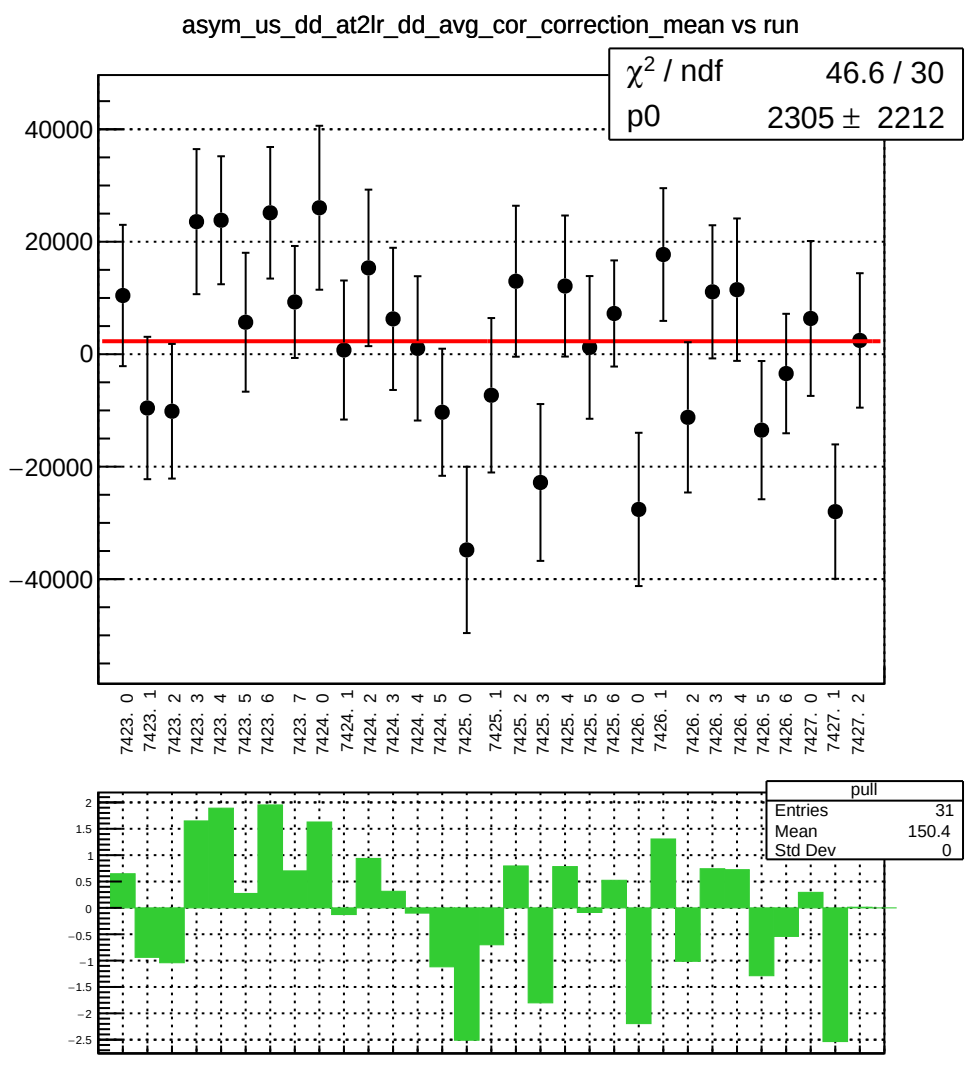

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 46.58 / 30
p0 2306 ± 2212
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 150.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.02615
Std Dev 1.226
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

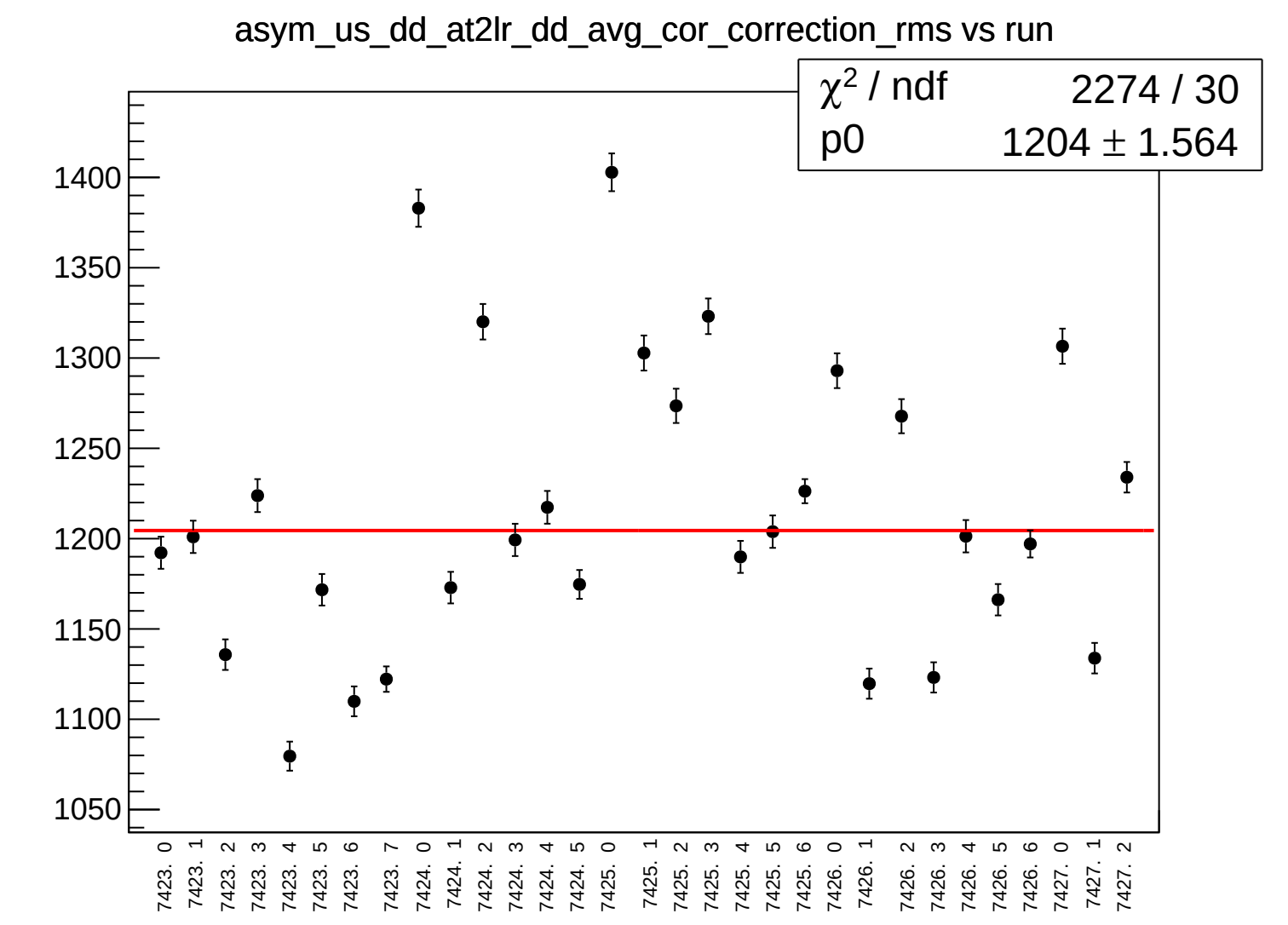

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2271 / 30
p0 1204 ± 1.564
1400
1350
1300
1250
1200
1150
1100
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

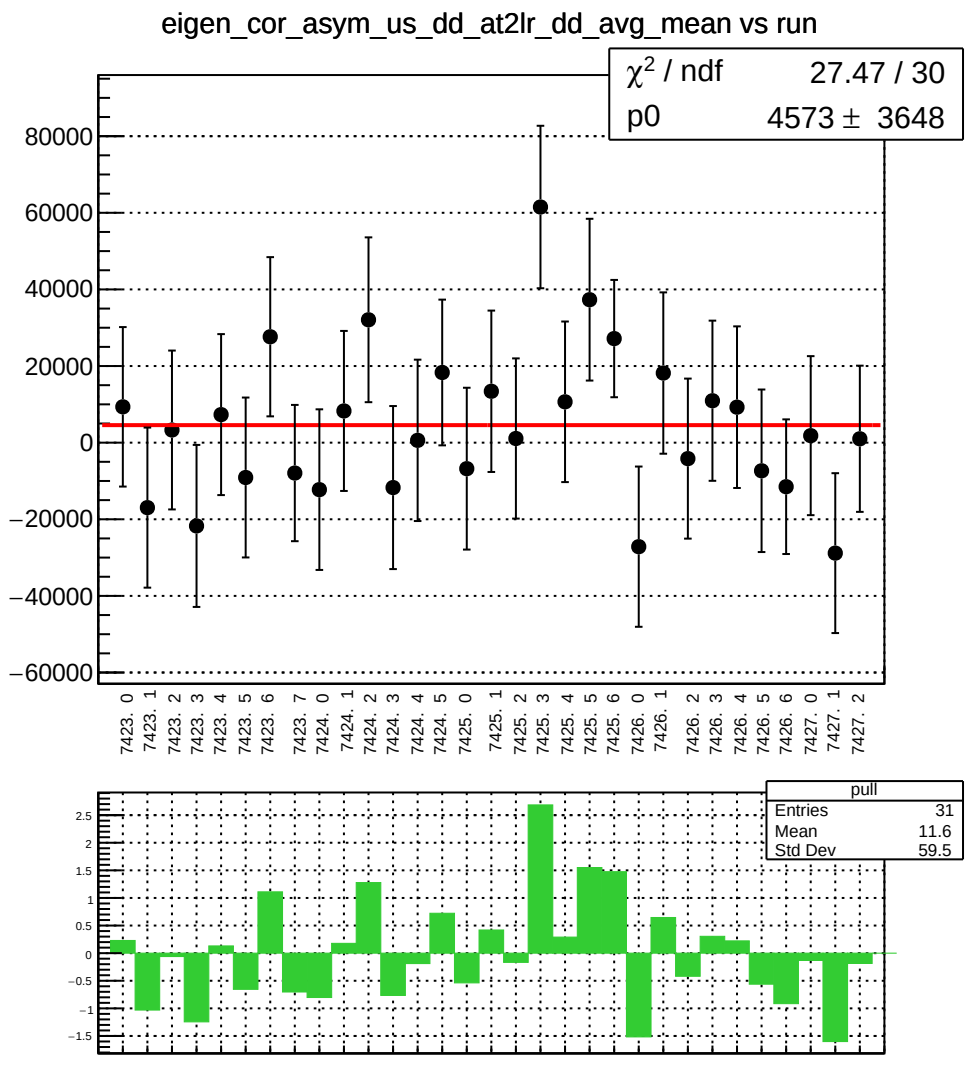

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 27.47 / 30
p0 4573 ± 3648
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.6
Std Dev 59.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

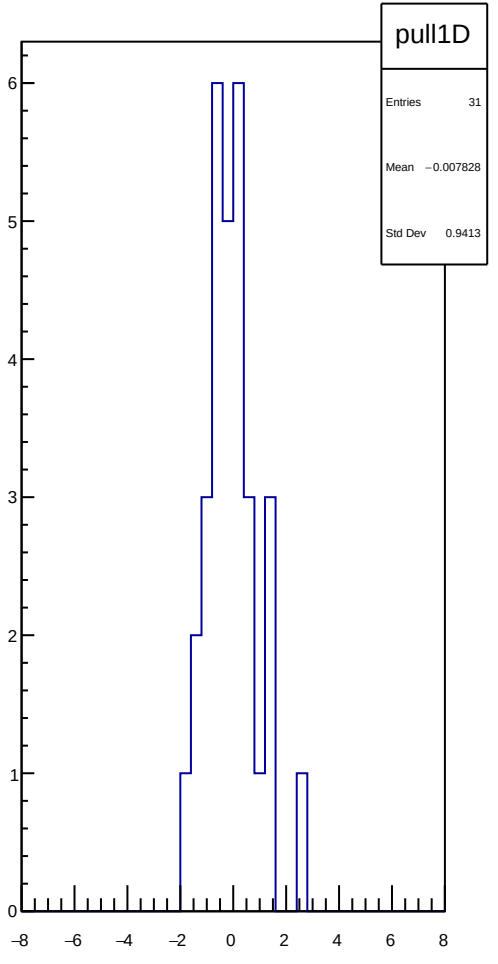

pull1D
Entries 31
Mean −0.007828
Std Dev 0.9413
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

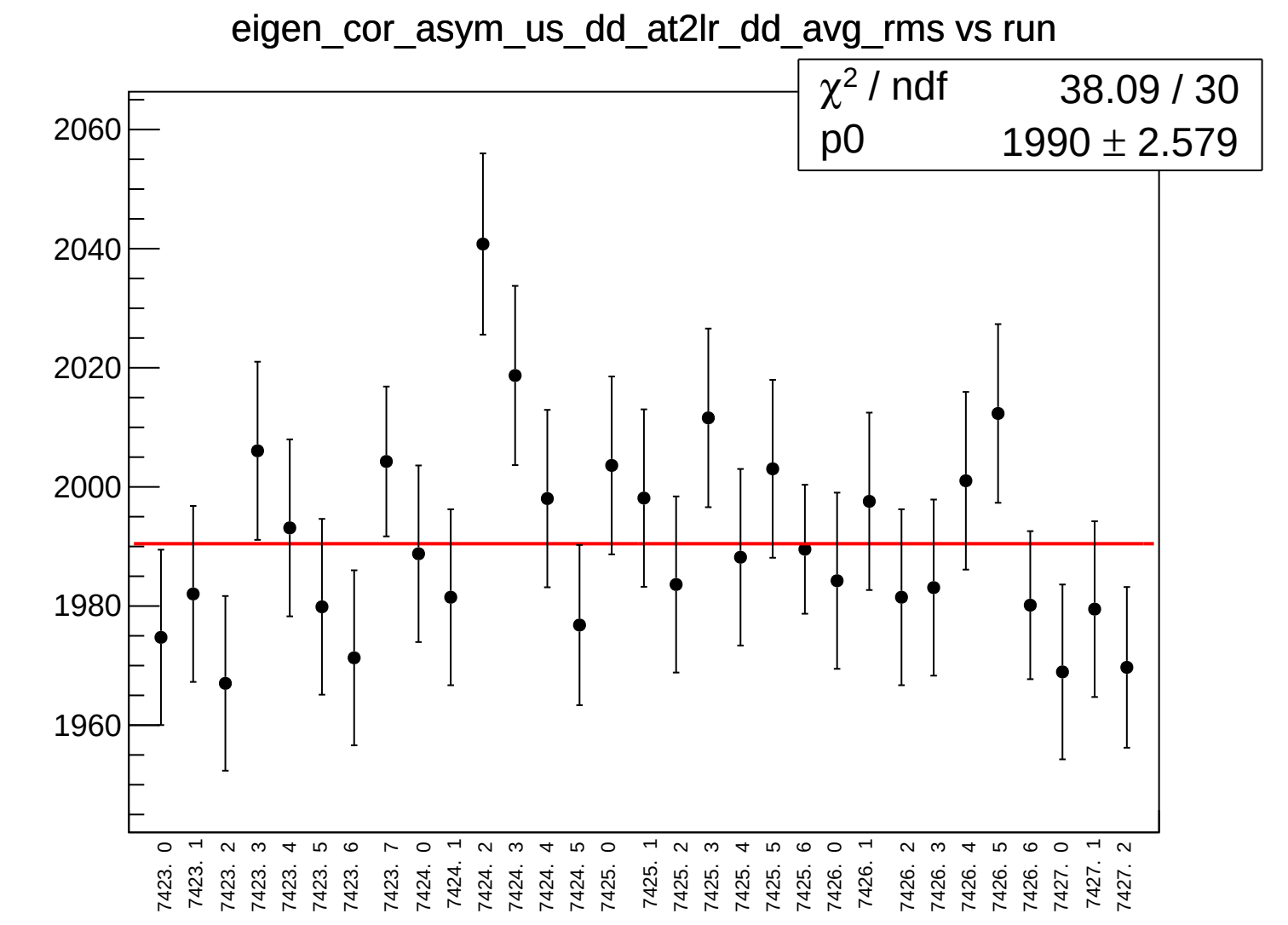

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 38.09 / 30
p0 1990 ± 2.579
2060
2040
2020
2000
1980
1960
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

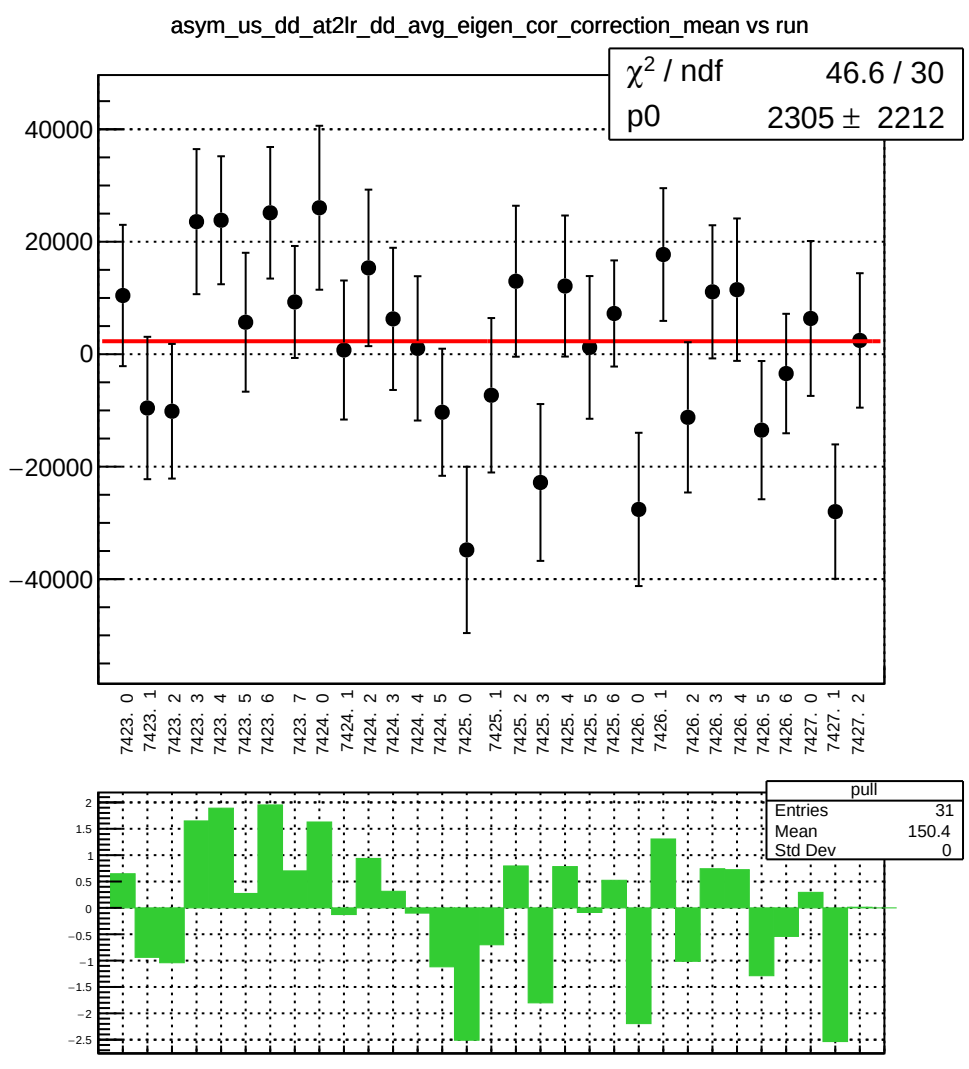

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 46.6 / 30
p0 2305 ± 2212
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 150.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.02622
Std Dev 1.226
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

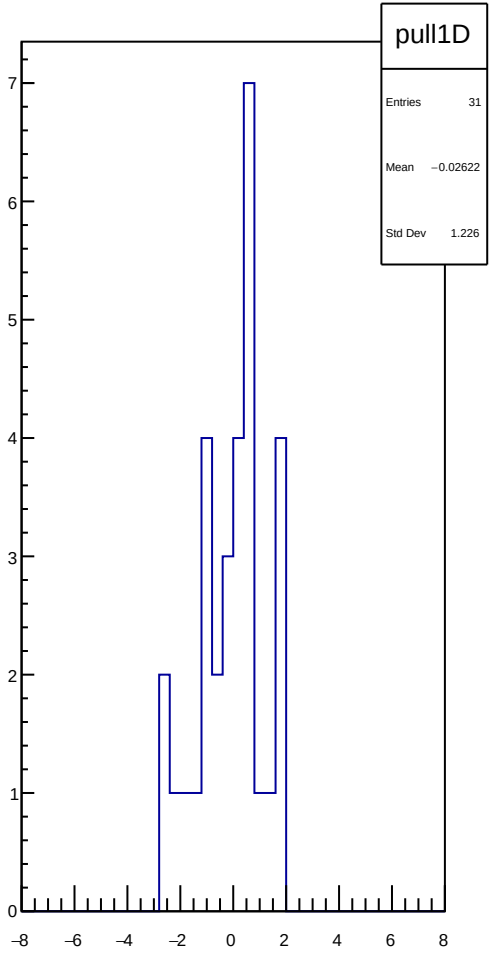

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2274 / 30
p0 1204 ± 1.564
1400
1350
1300
1250
1200
1150
1100
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

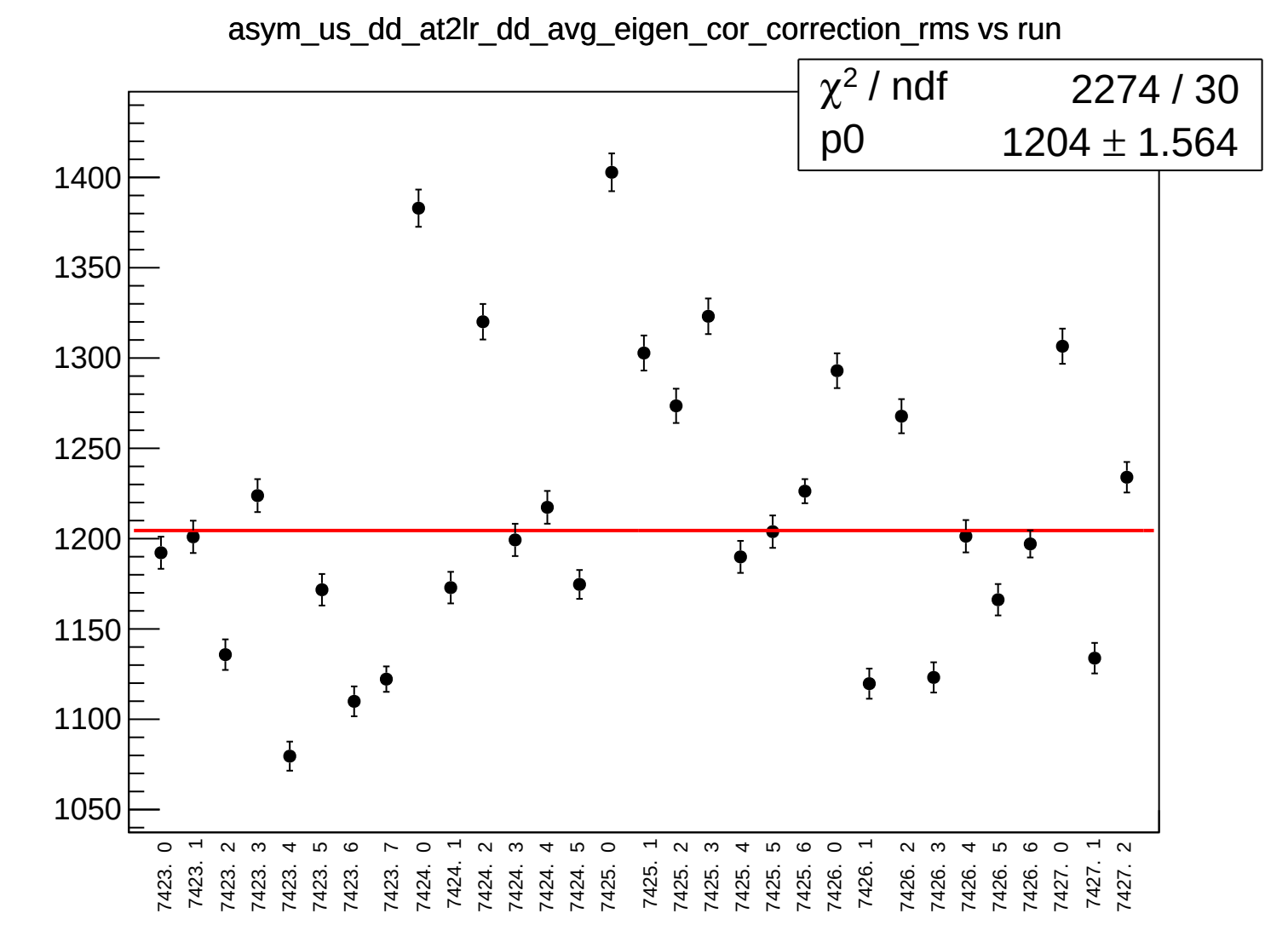

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 27.47 / 30
p0 4573 ± 3648
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.6
Std Dev 59.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

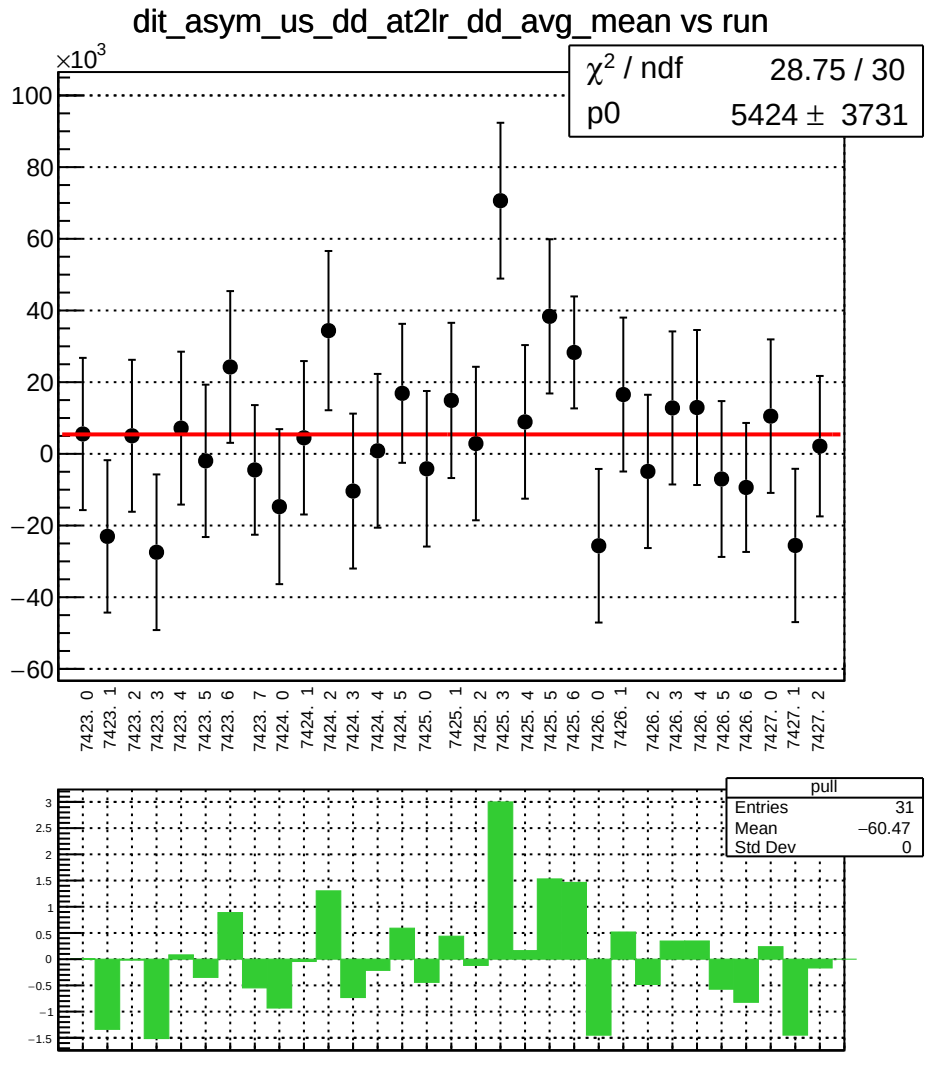

pull1D
Entries 31
Mean −0.007828
Std Dev 0.9413
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

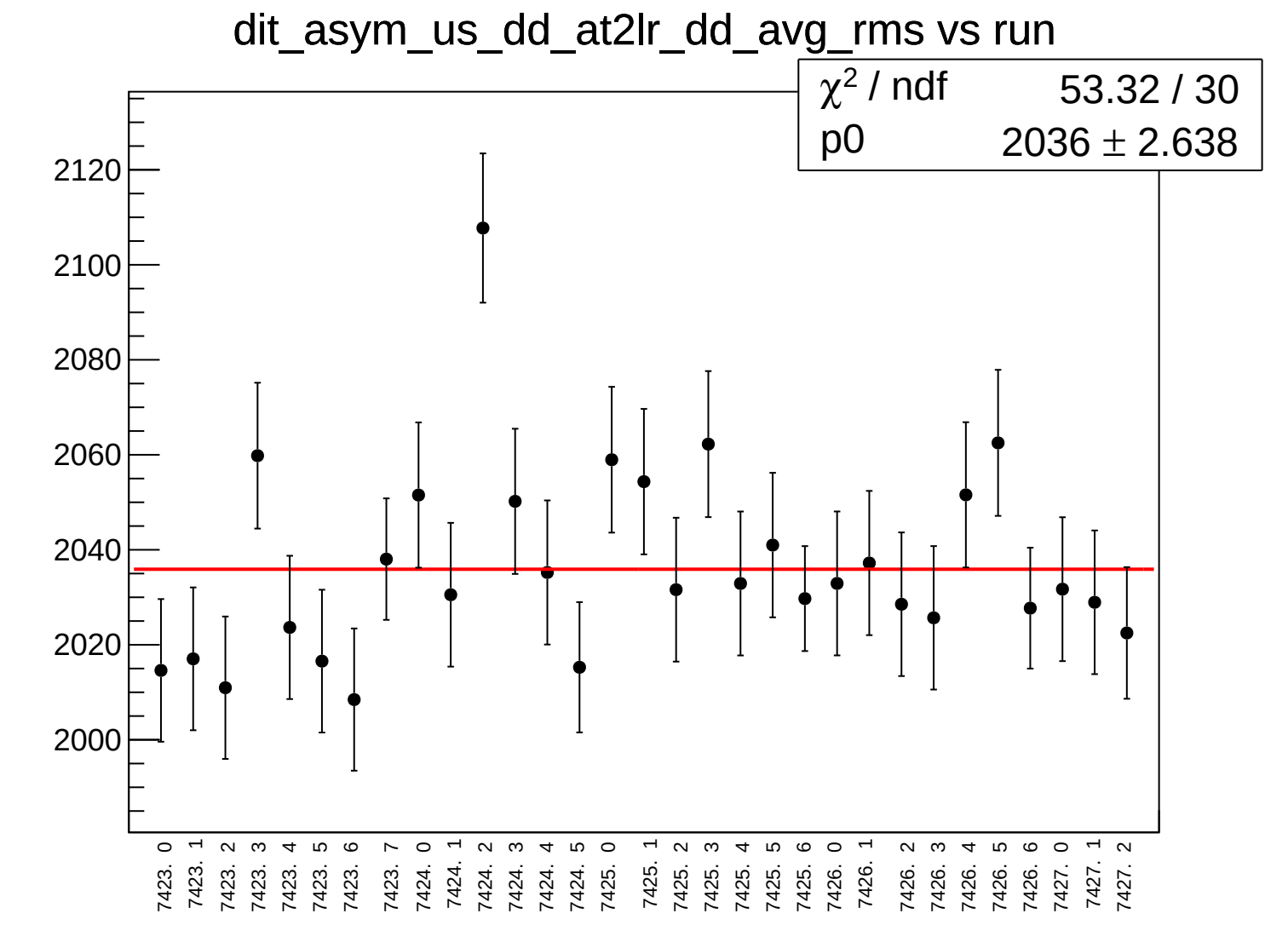

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 38.09 / 30
p0 1990 ± 2.579
2060
2040
2020
2000
1980
1960
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

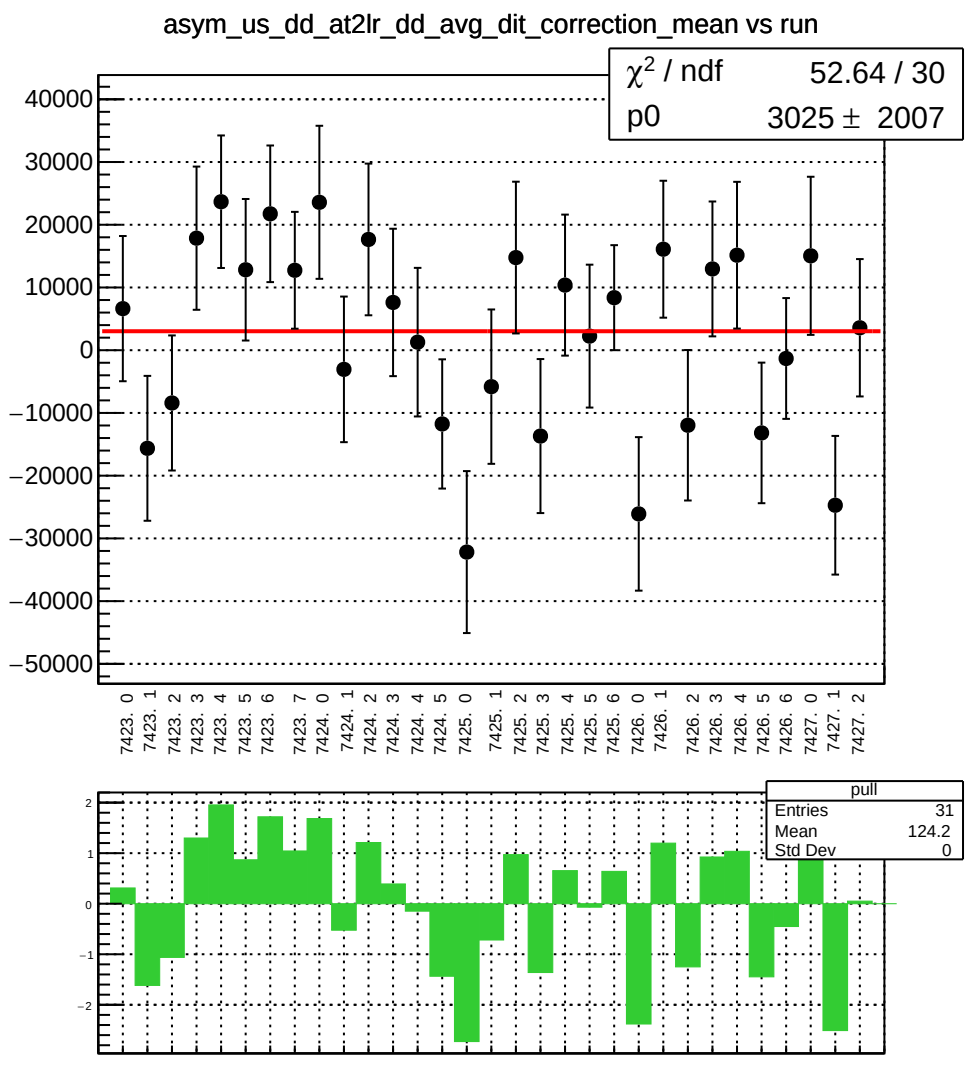

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 46.6 / 30
p0 2305 ± 2212
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 150.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

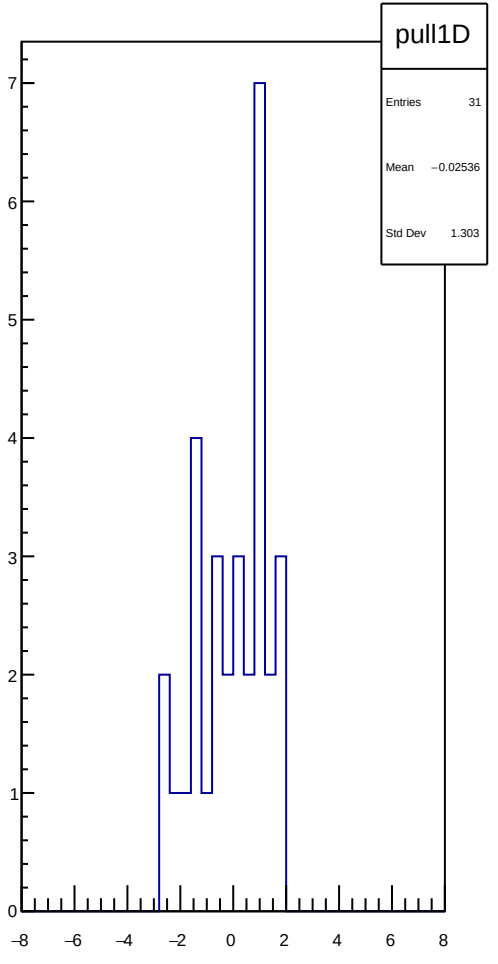

pull1D
Entries 31
Mean −0.02622
Std Dev 1.226
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

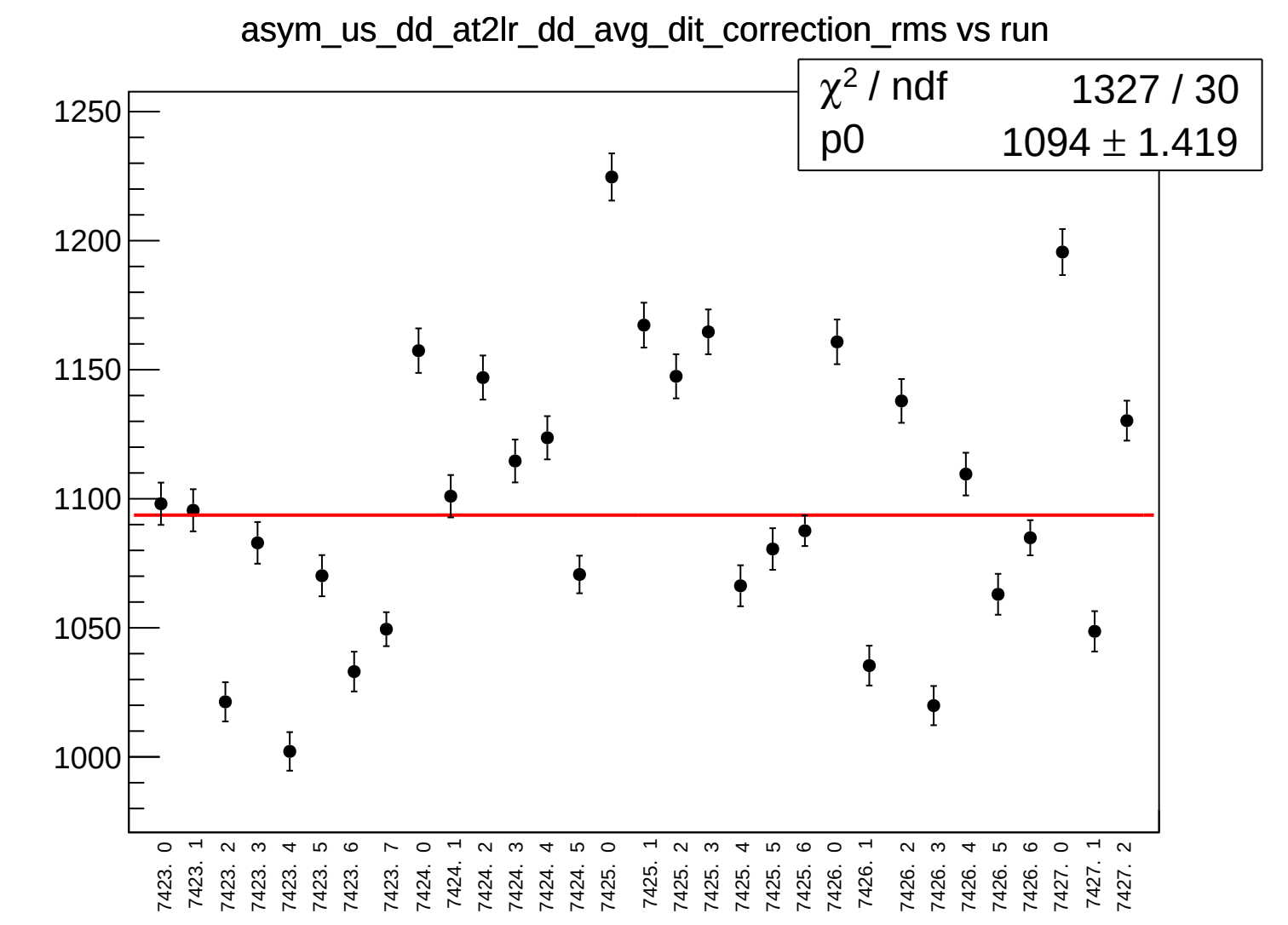

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2274 / 30
p0 1204 ± 1.564
1400
1350
1300
1250
1200
1150
1100
1050
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

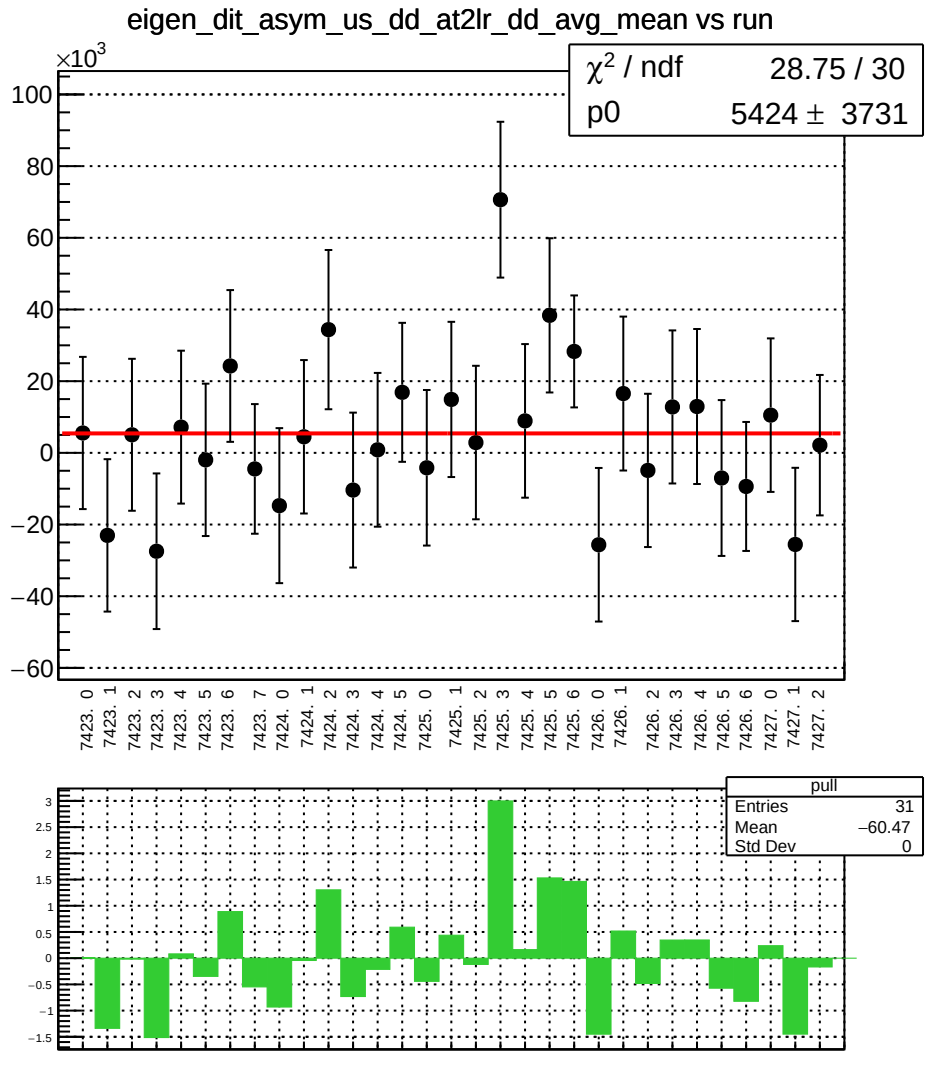

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 28.75 / 30
p0 5424 ± 3731
100
80
60
40
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −60.47
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.008791
Std Dev 0.9629
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

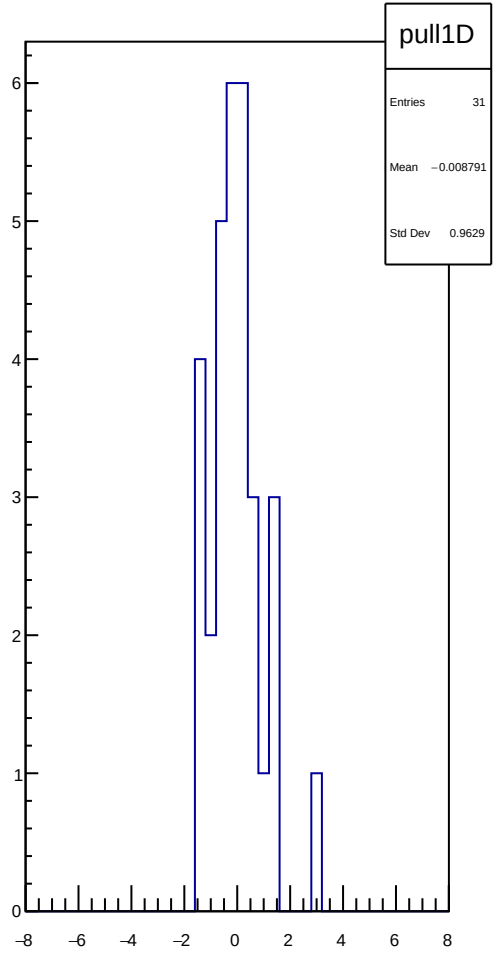

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 53.32 / 30
p0 2036 ± 2.638
2120
2100
2080
2060
2040
2020
2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

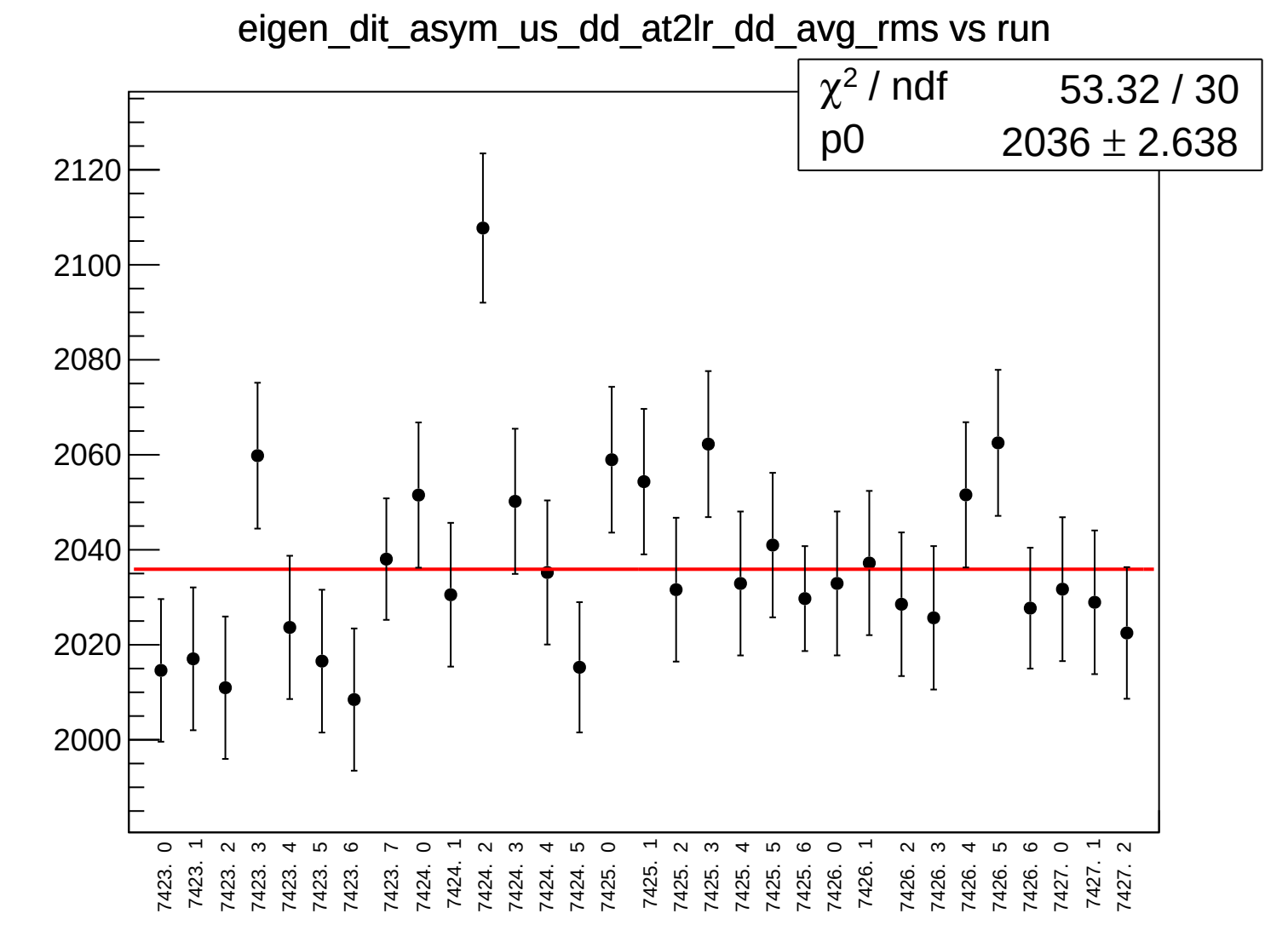

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 52.64 / 30
p0 3025 ± 2007
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.2
Std Dev 0
2
1
0
−1
−2

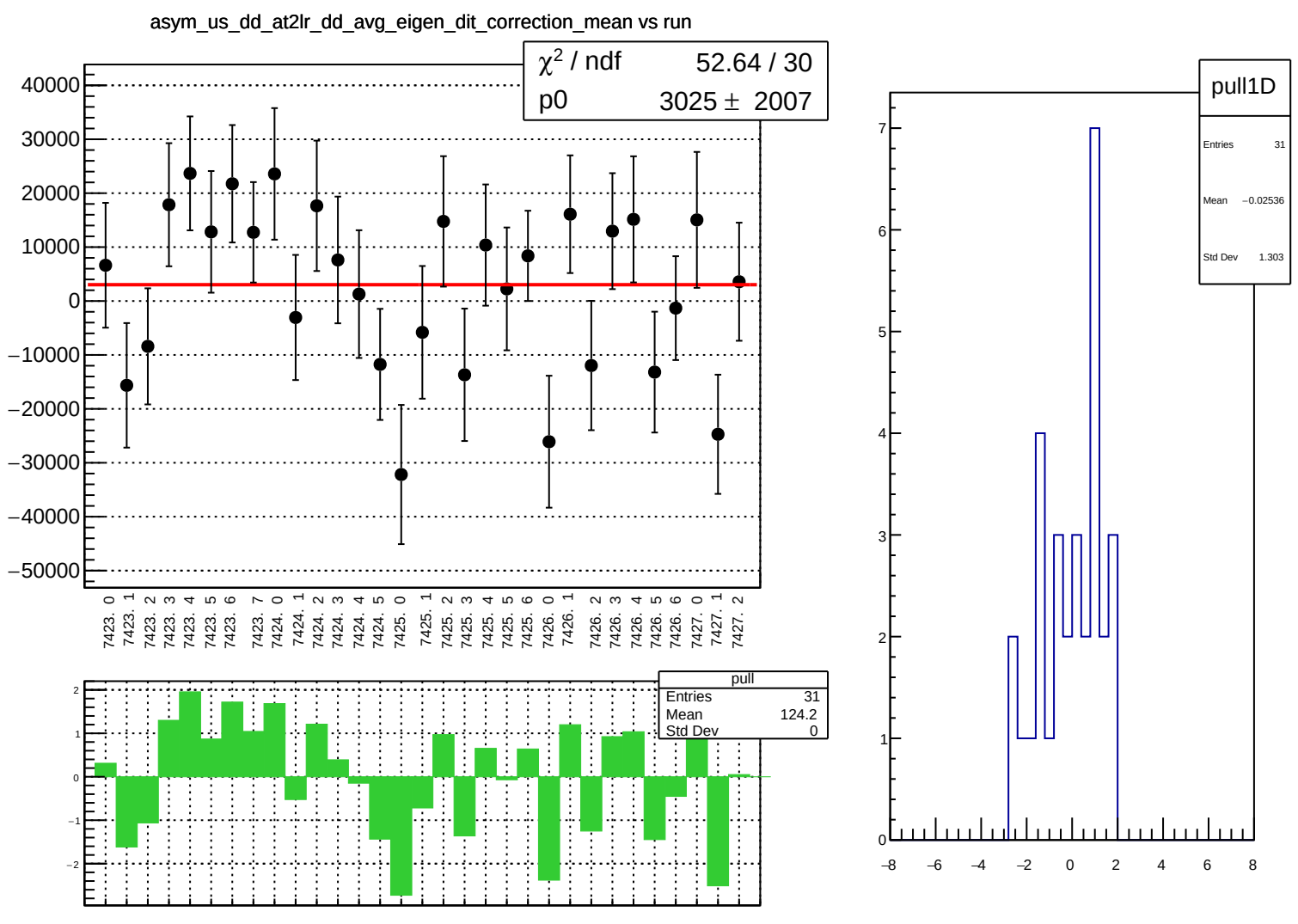

pull1D
Entries 31
Mean −0.02536
Std Dev 1.303
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

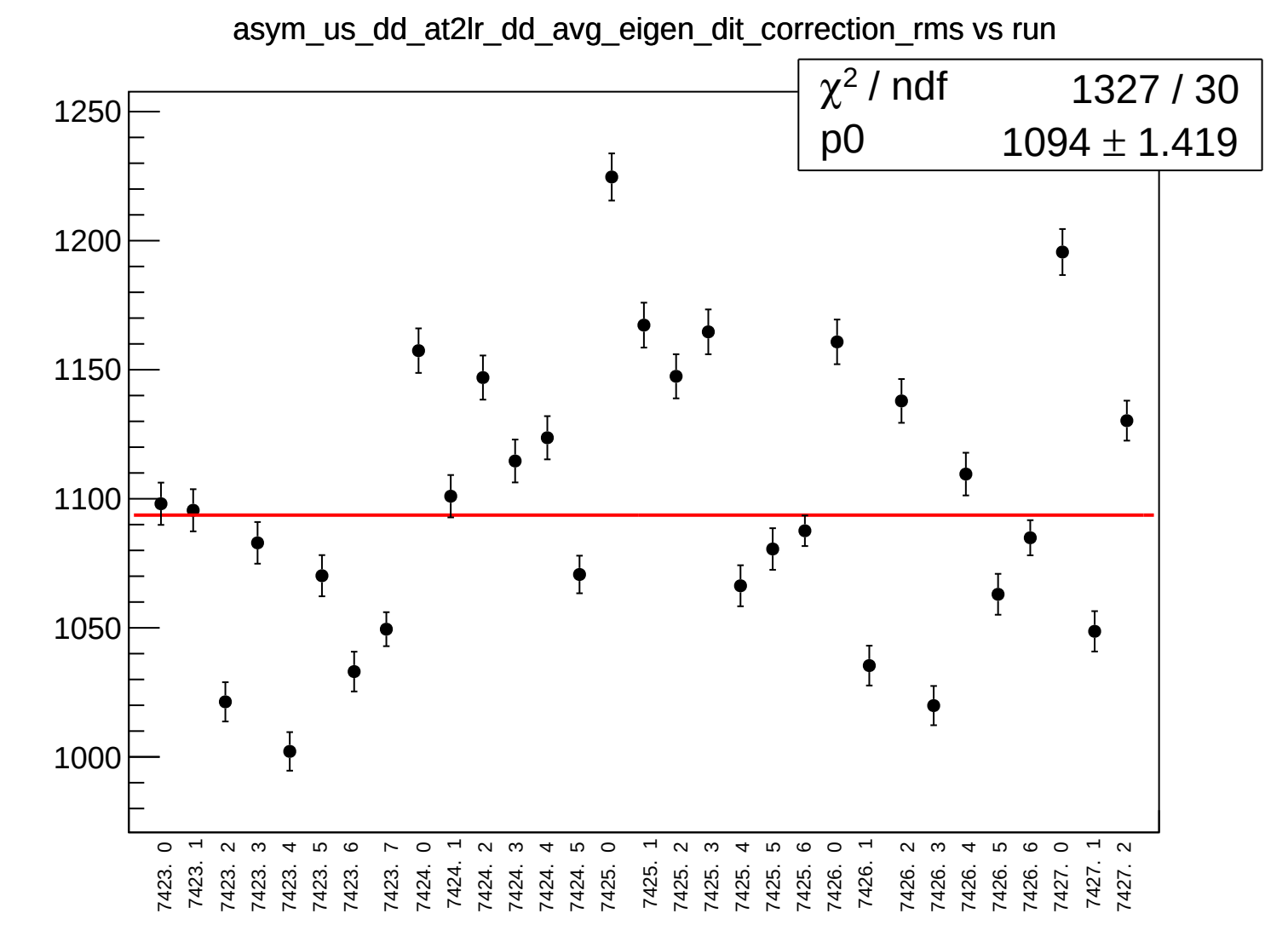

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1327 / 30
p0 1094 ± 1.419
1250
1200
1150
1100
1050
1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

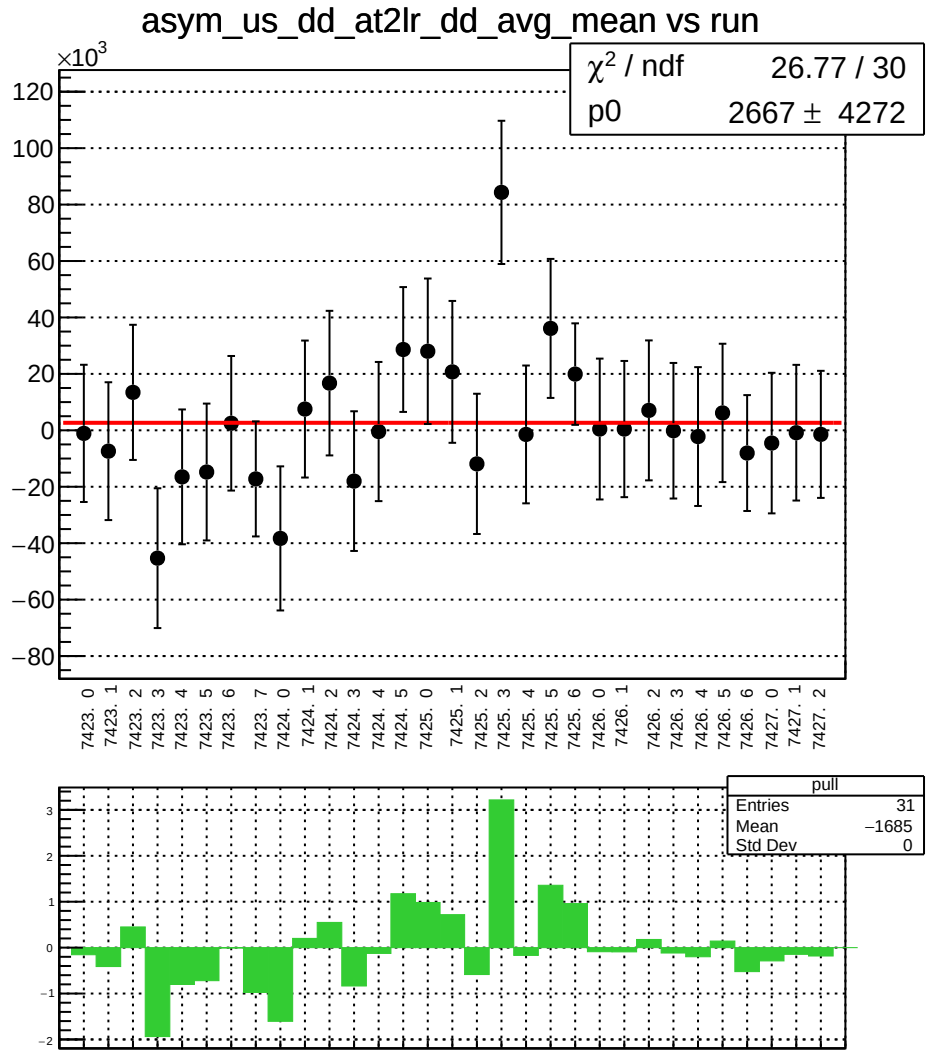

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 28.75 / 30
p0 5424 ± 3731
100
80
60
40
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −60.47
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

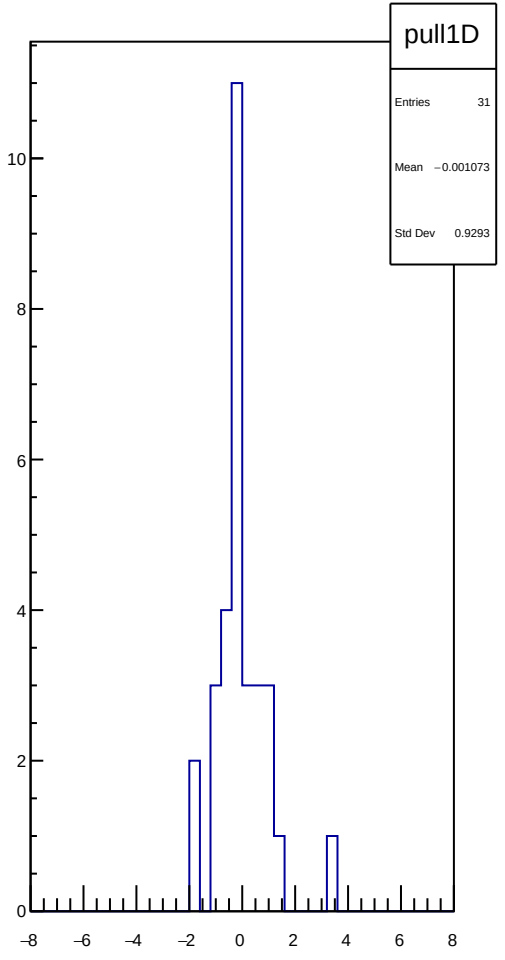

pull1D
Entries 31
Mean −0.008791
Std Dev 0.9629
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

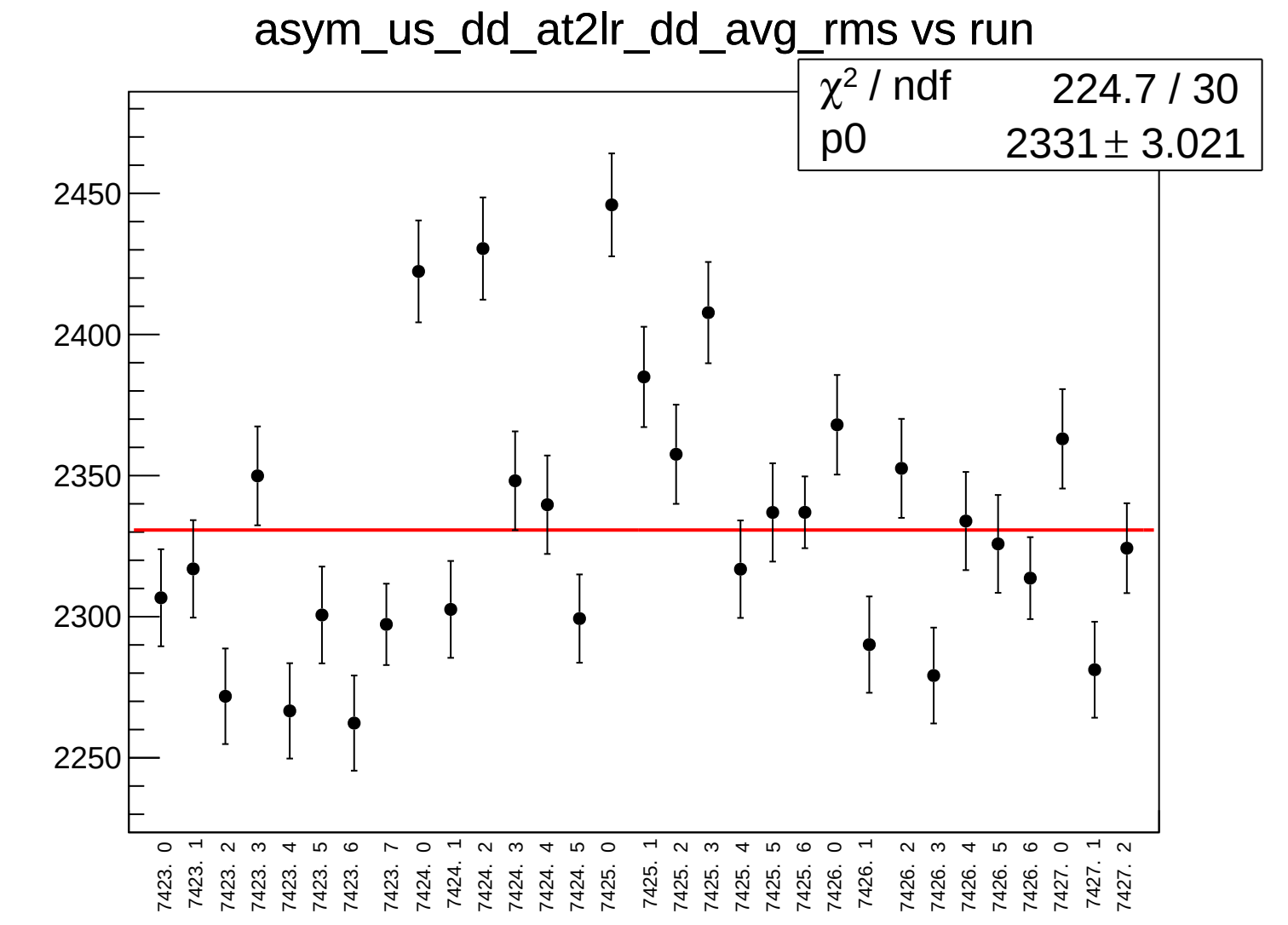

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 53.32 / 30
p0 2036 ± 2.638
2120
2100
2080
2060
2040
2020
2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

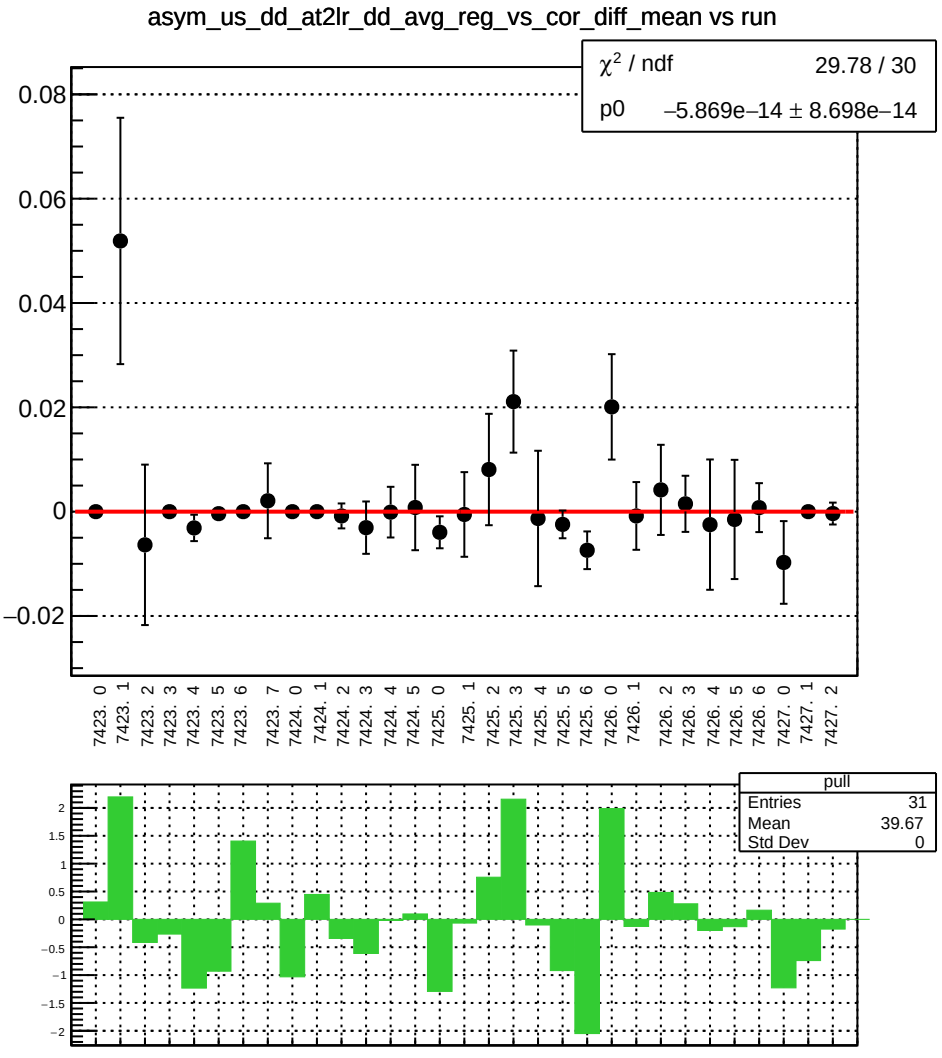

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 52.64 / 30
p0 3025 ± 2007
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.02536
Std Dev 1.303
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

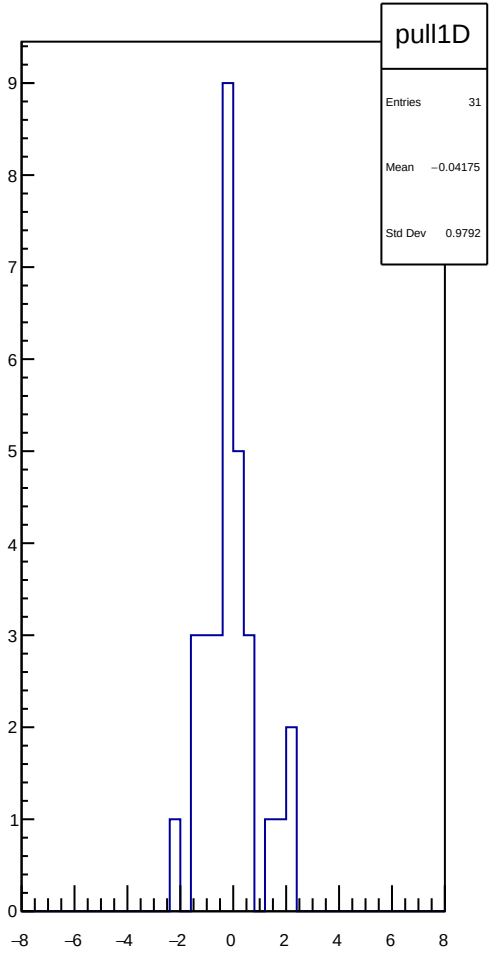

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1327 / 30
p0 1094 ± 1.419
1250
1200
1150
1100
1050
1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

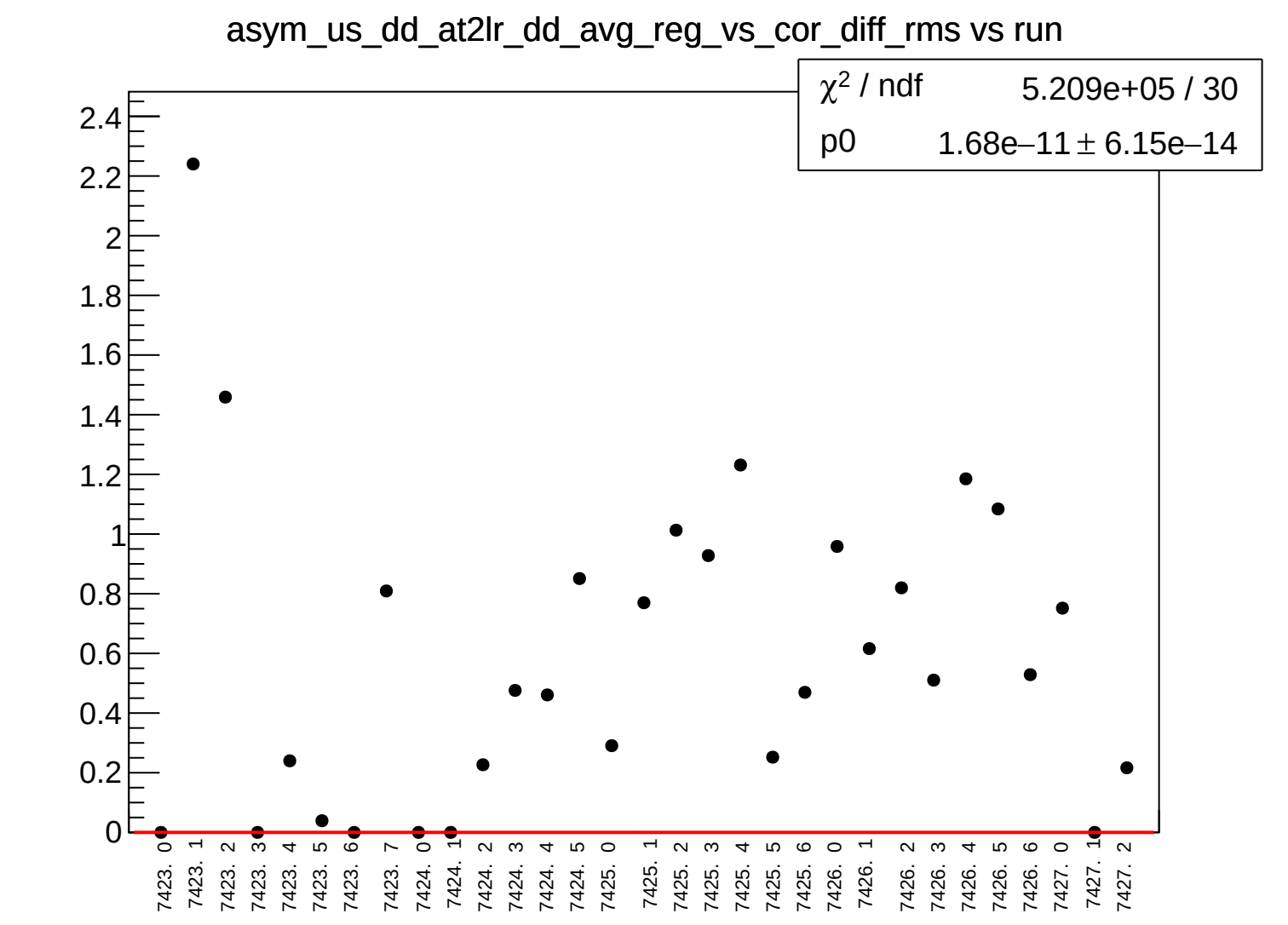

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 26.77 / 30
p0 2667 ± 4272
120
100
80
60
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1685
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 31
Mean −0.001073
Std Dev 0.9293
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

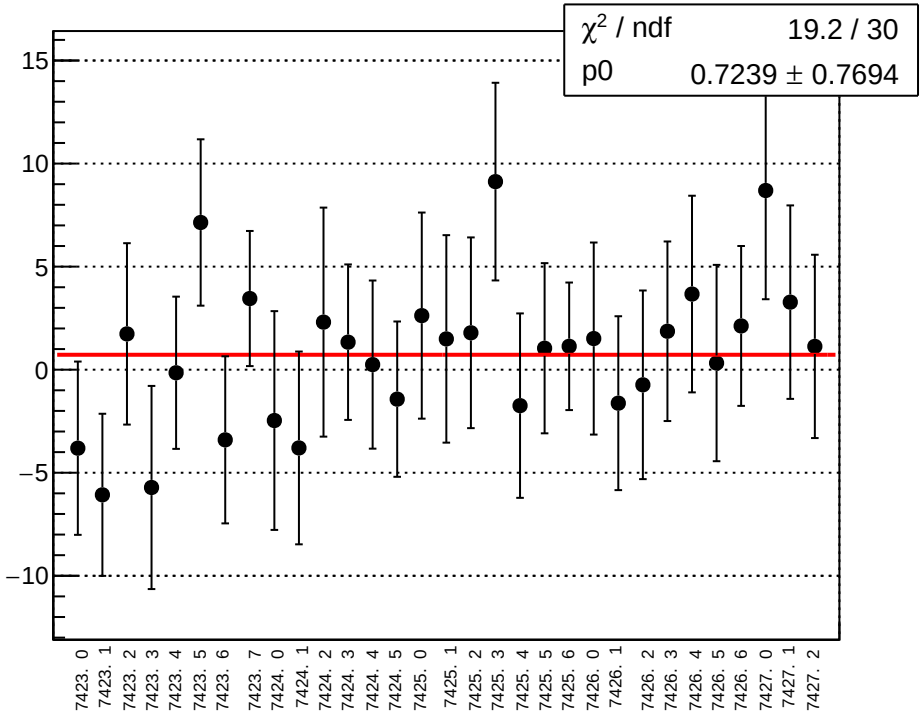

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 224.7 / 30
p0 2331 ± 3.021
2450
2400
2350
2300
2250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

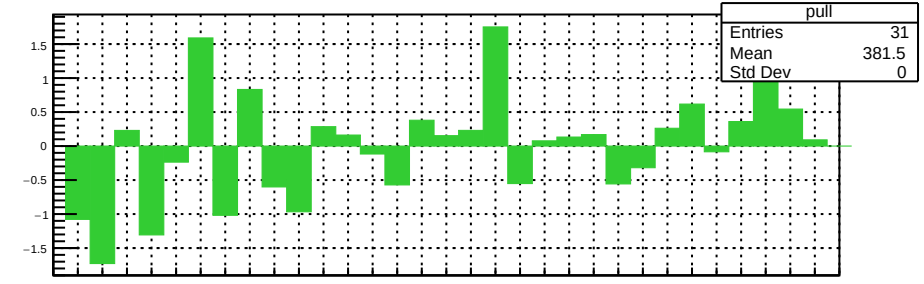

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 29.78 / 30
p0 −5.869e−14 ± 8.698e−14
0.08
0.06
0.04
0.02
0
−0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 39.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

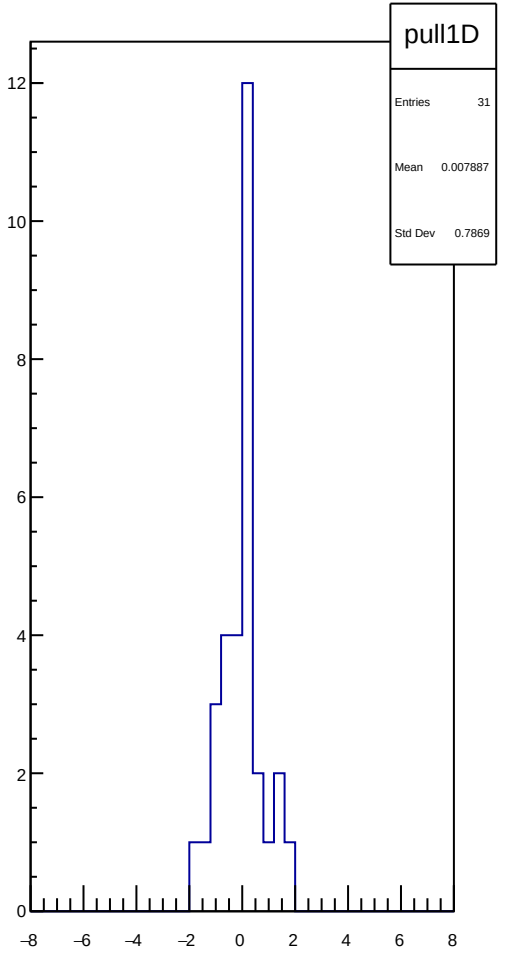

pull1D
Entries 31
Mean −0.04175
Std Dev 0.9792
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

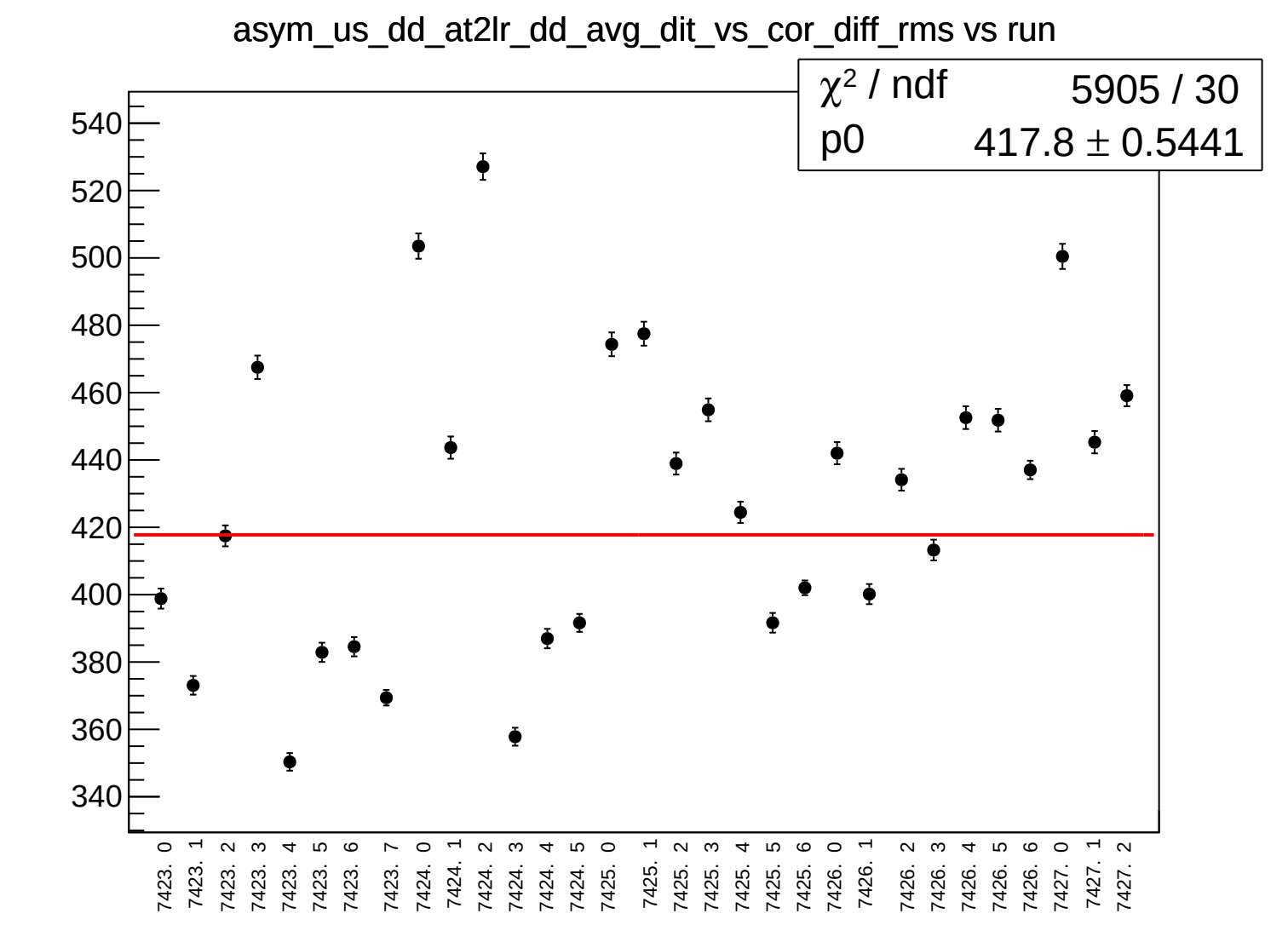

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.209e+05 / 30
p0 1.68e−11 ± 6.15e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

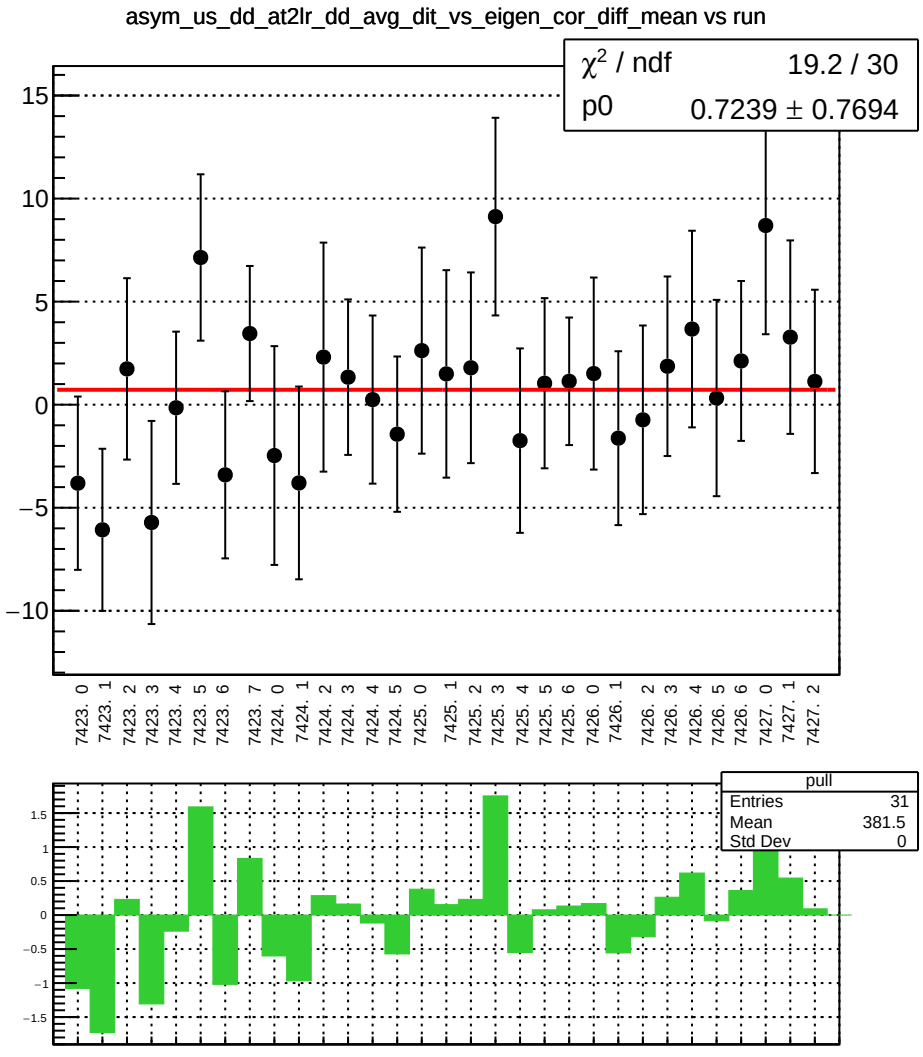
asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run

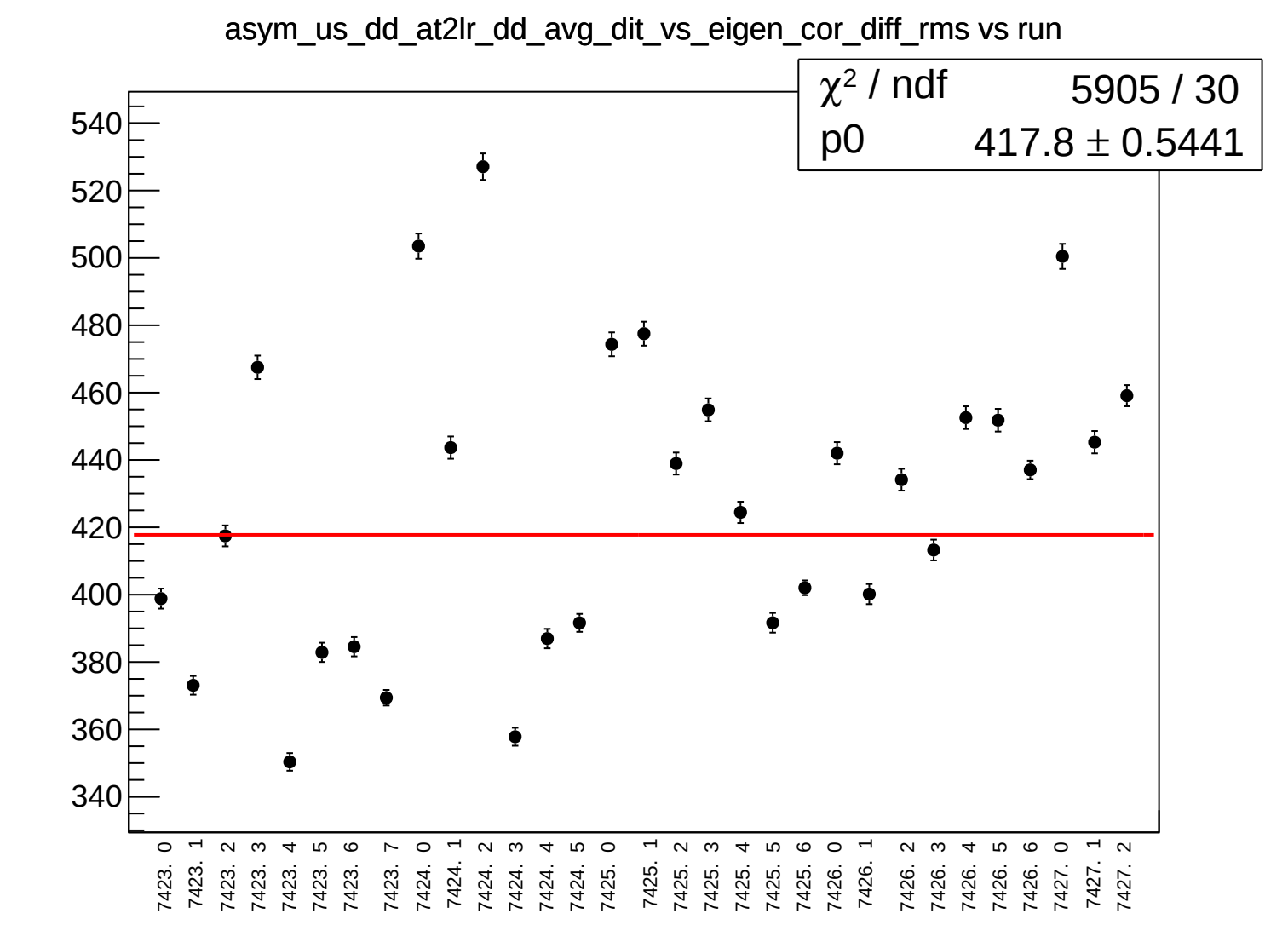


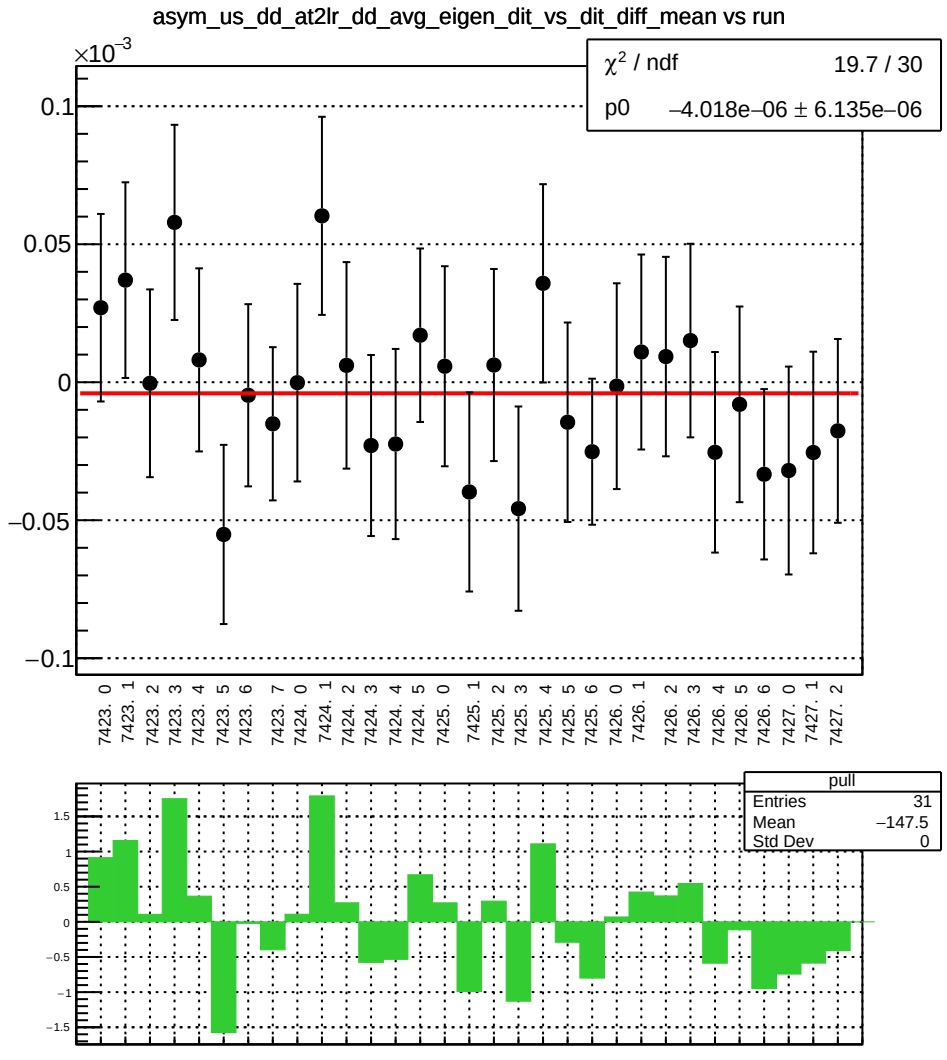


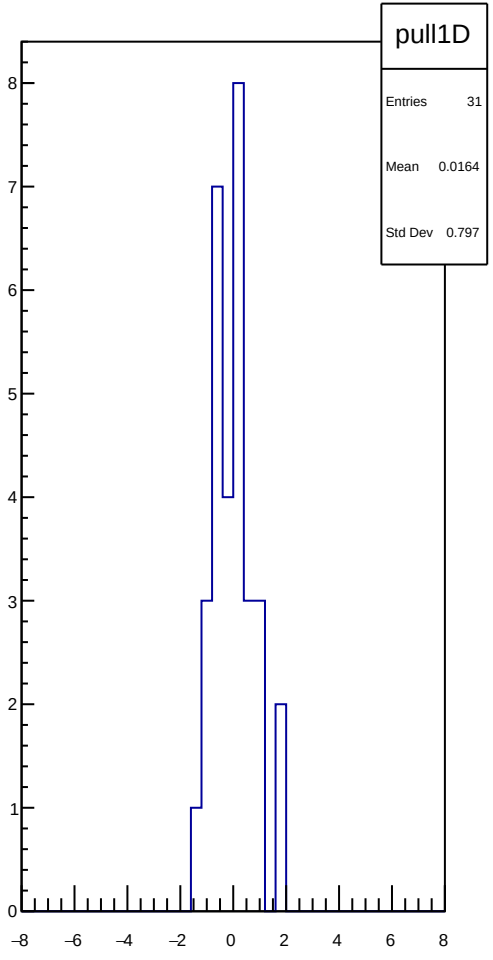


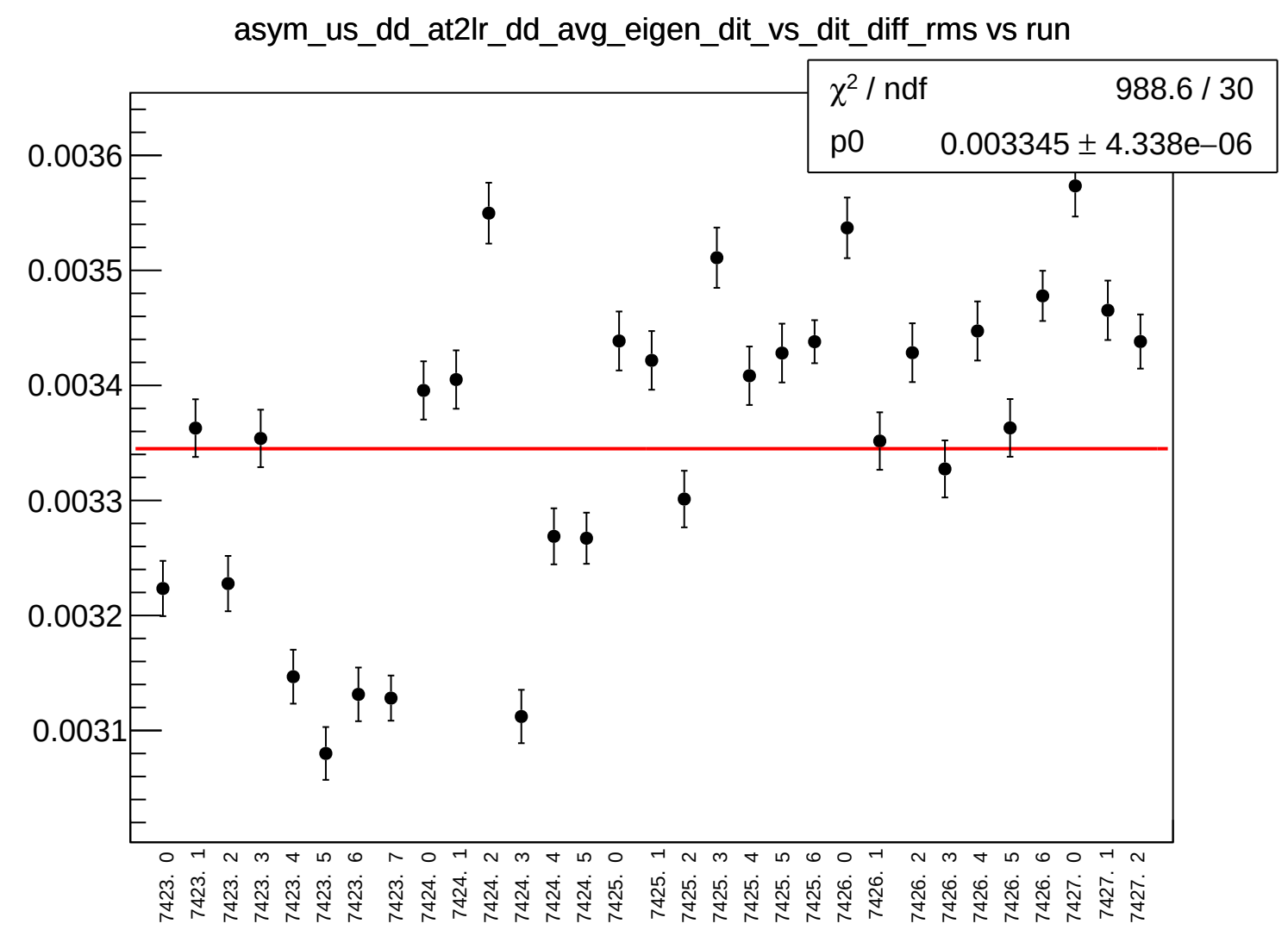

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5905 / 30
p0 417.8 ± 0.5441
540
520
500
480
460
440
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

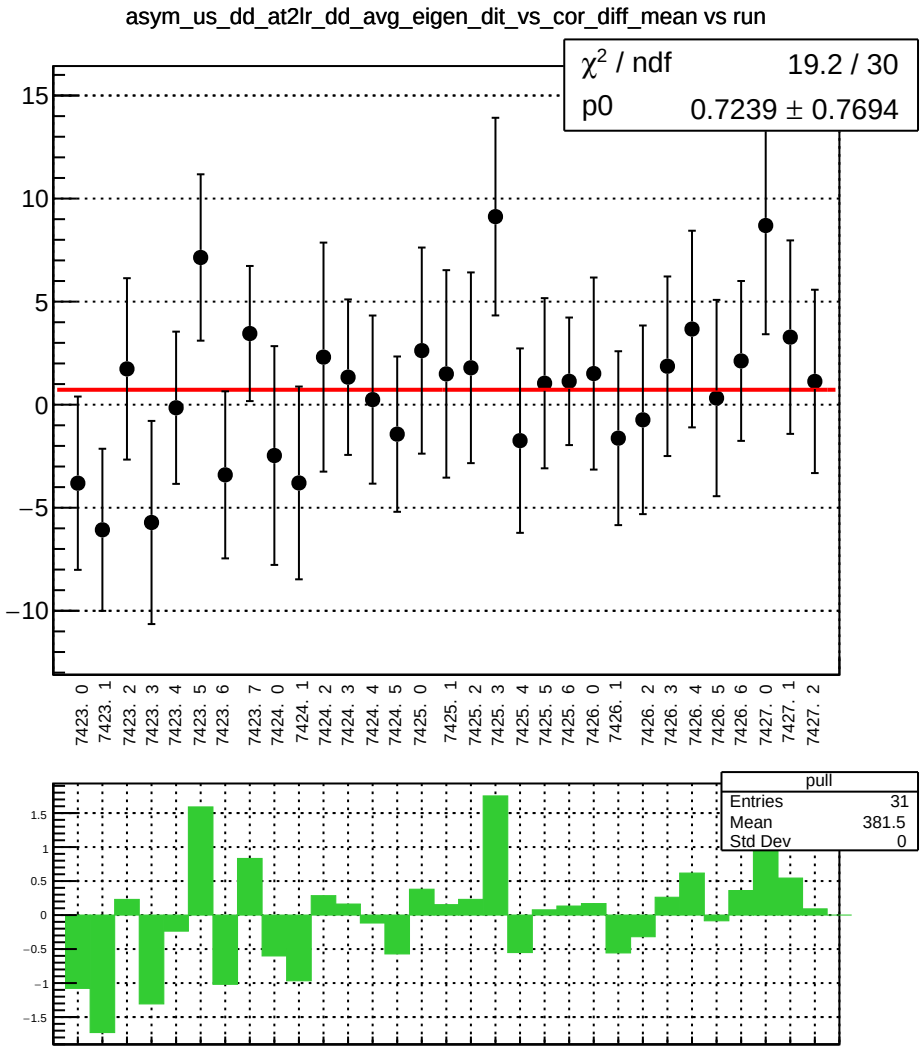

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.2 / 30
p0 0.7239 ± 0.7694
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 381.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.007887
Std Dev 0.7869
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

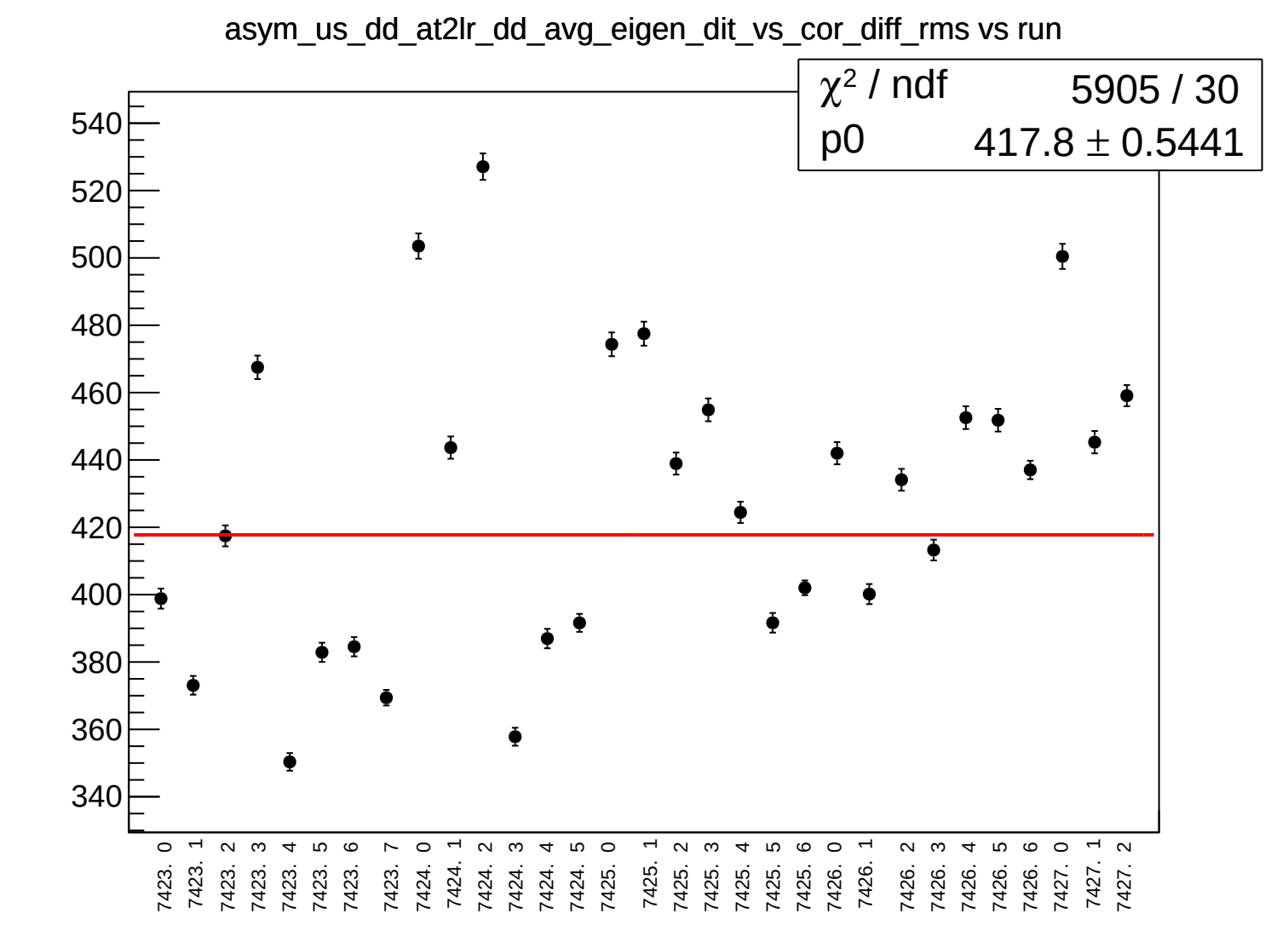

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5905 / 30
p0 417.8 ± 0.5441
540
520
500
480
460
440
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

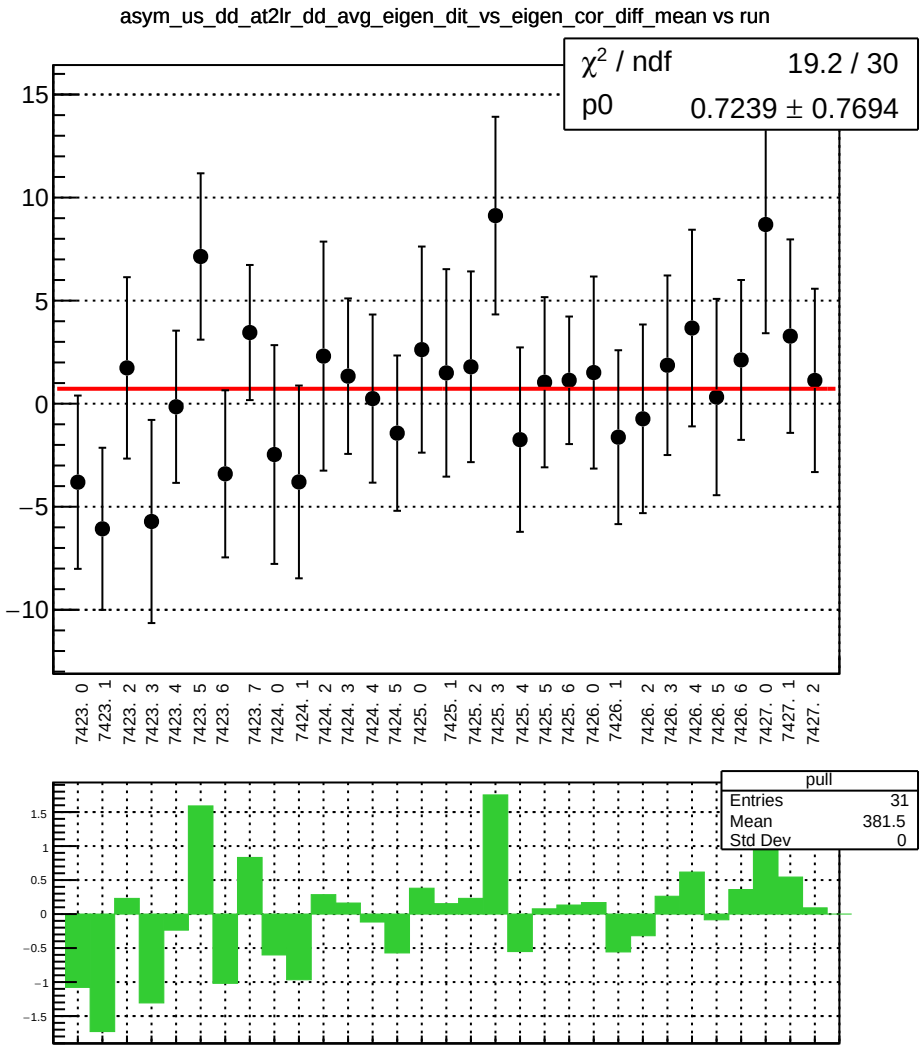

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.7 / 30
p0 −4.018e−06 ± 6.135e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −147.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

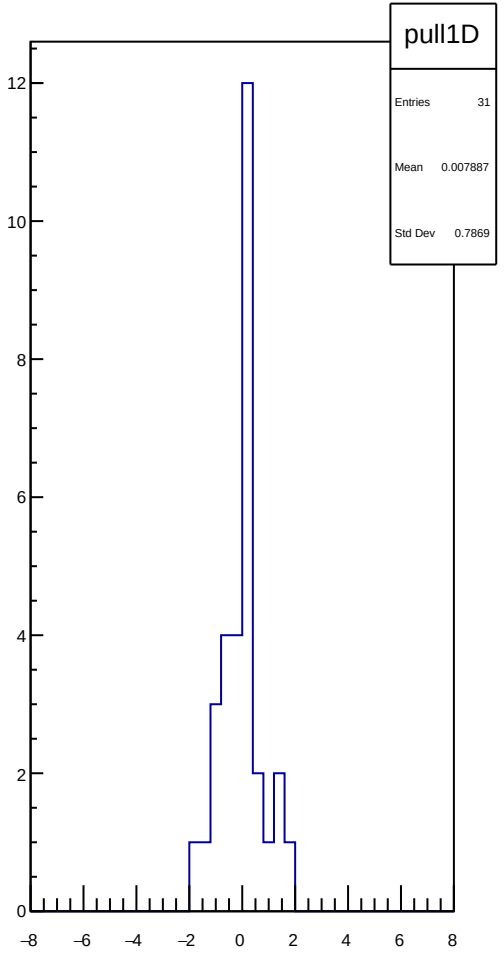

pull1D
Entries 31
Mean 0.0164
Std Dev 0.797
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

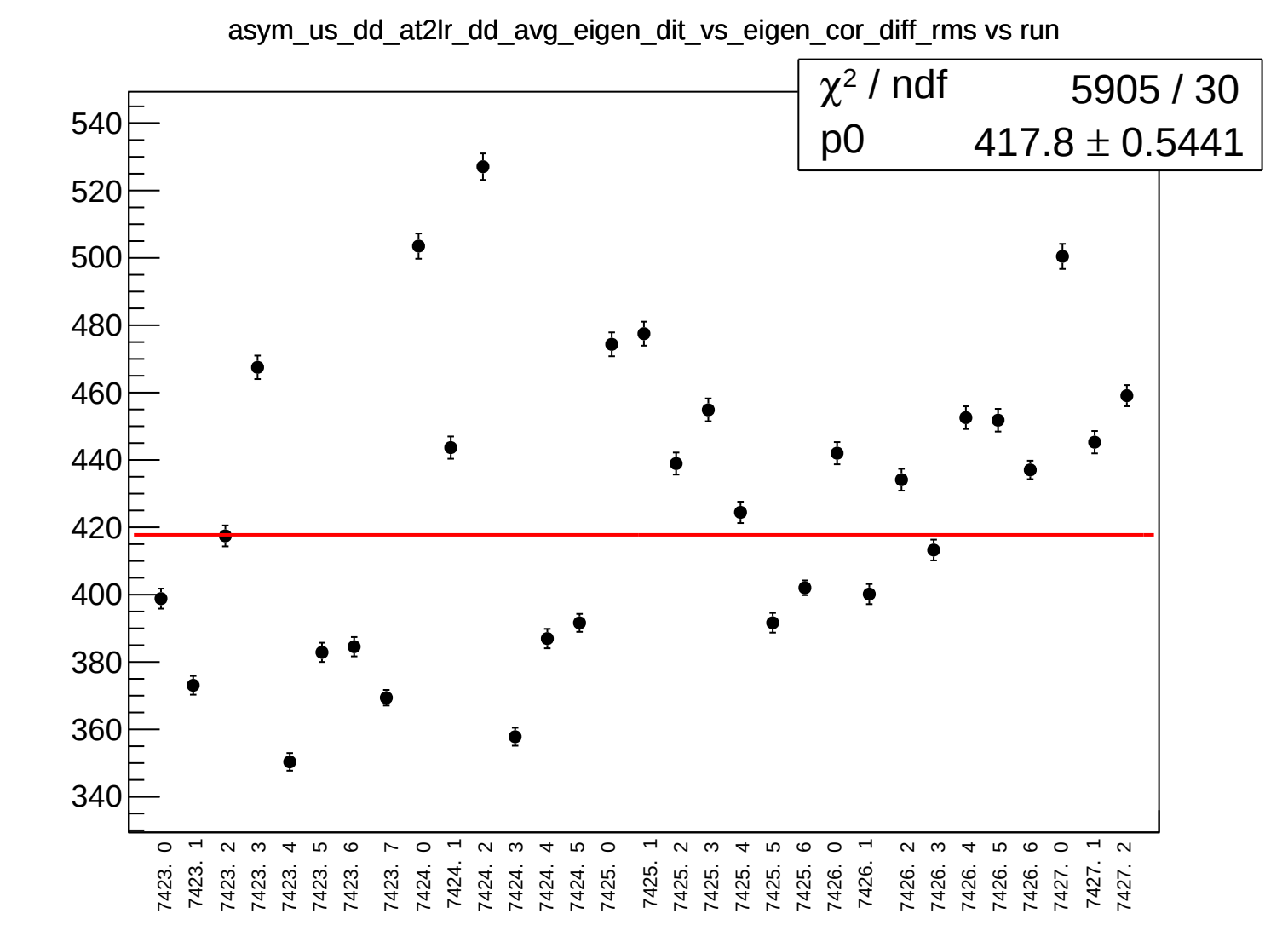

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 988.6 / 30
p0 0.003345 ± 4.338e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

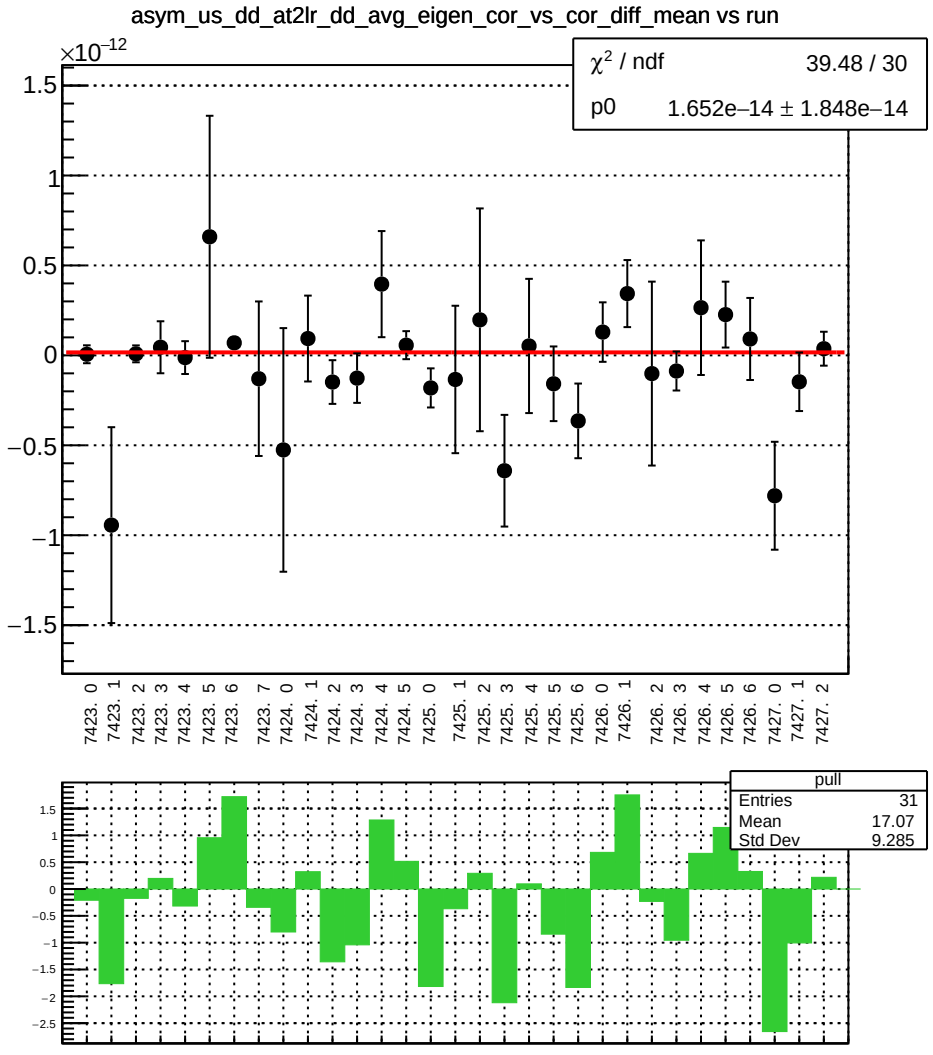

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.2 / 30
p0 0.7239 ± 0.7694
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 381.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.007887
Std Dev 0.7869
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

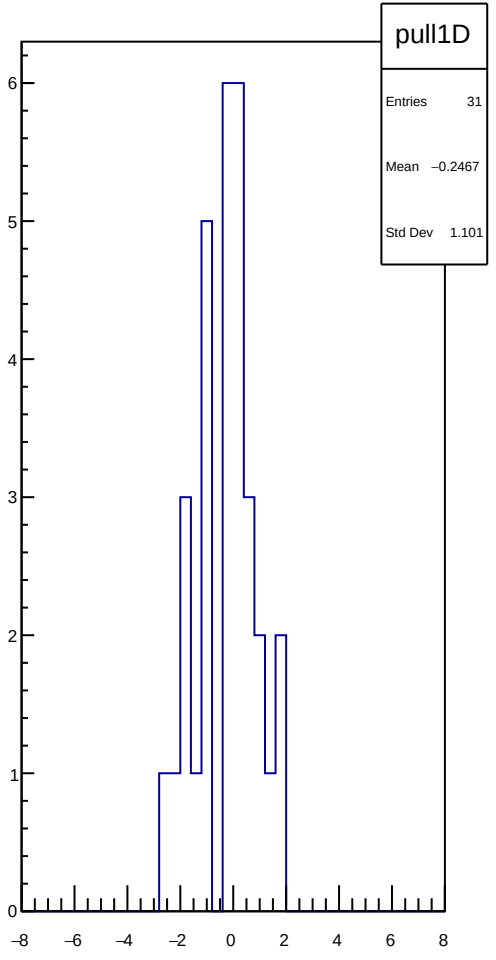

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5905 / 30
p0 417.8 ± 0.5441
540
520
500
480
460
440
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

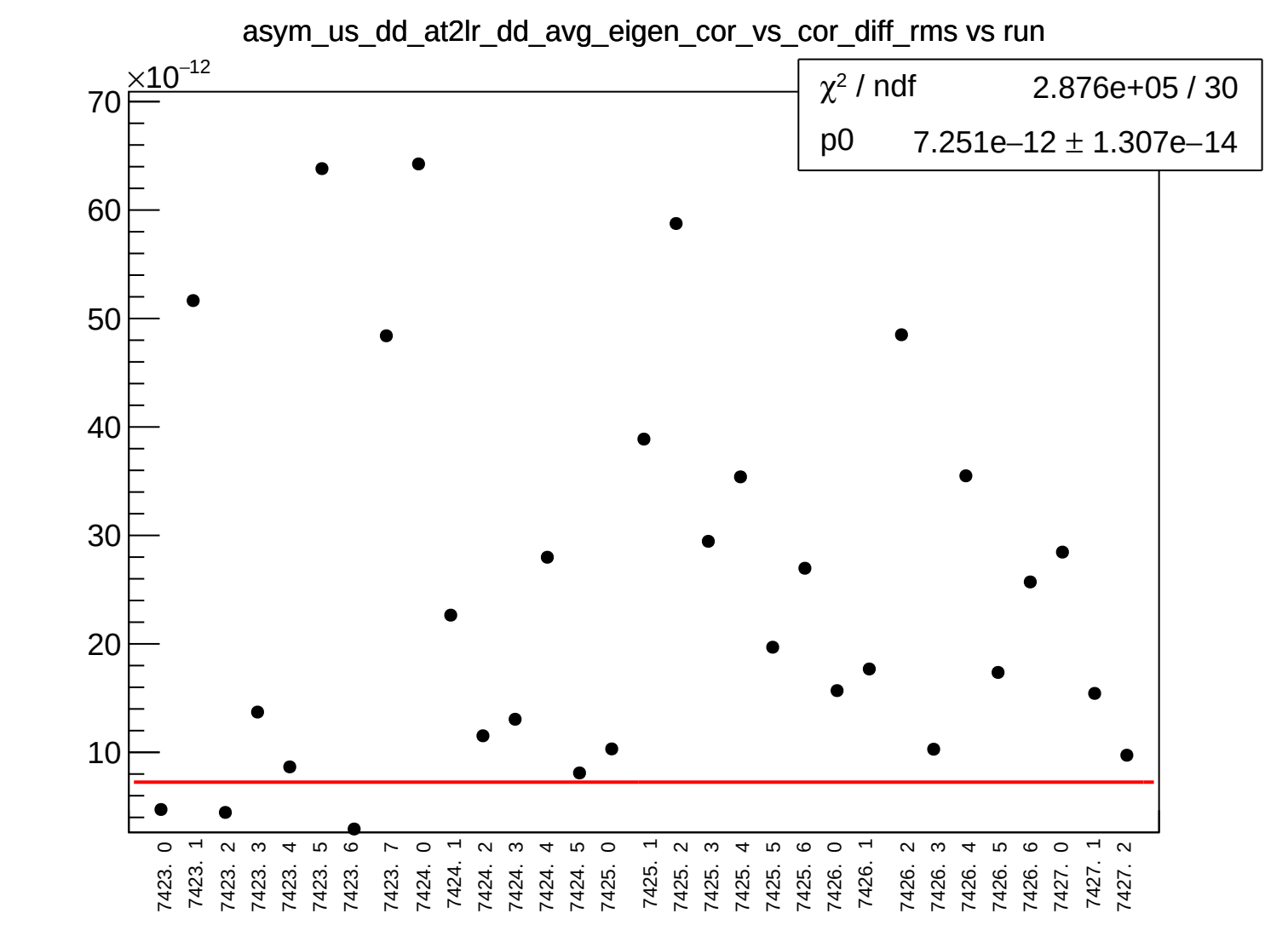

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.2 / 30
p0 0.7239 ± 0.7694
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 381.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

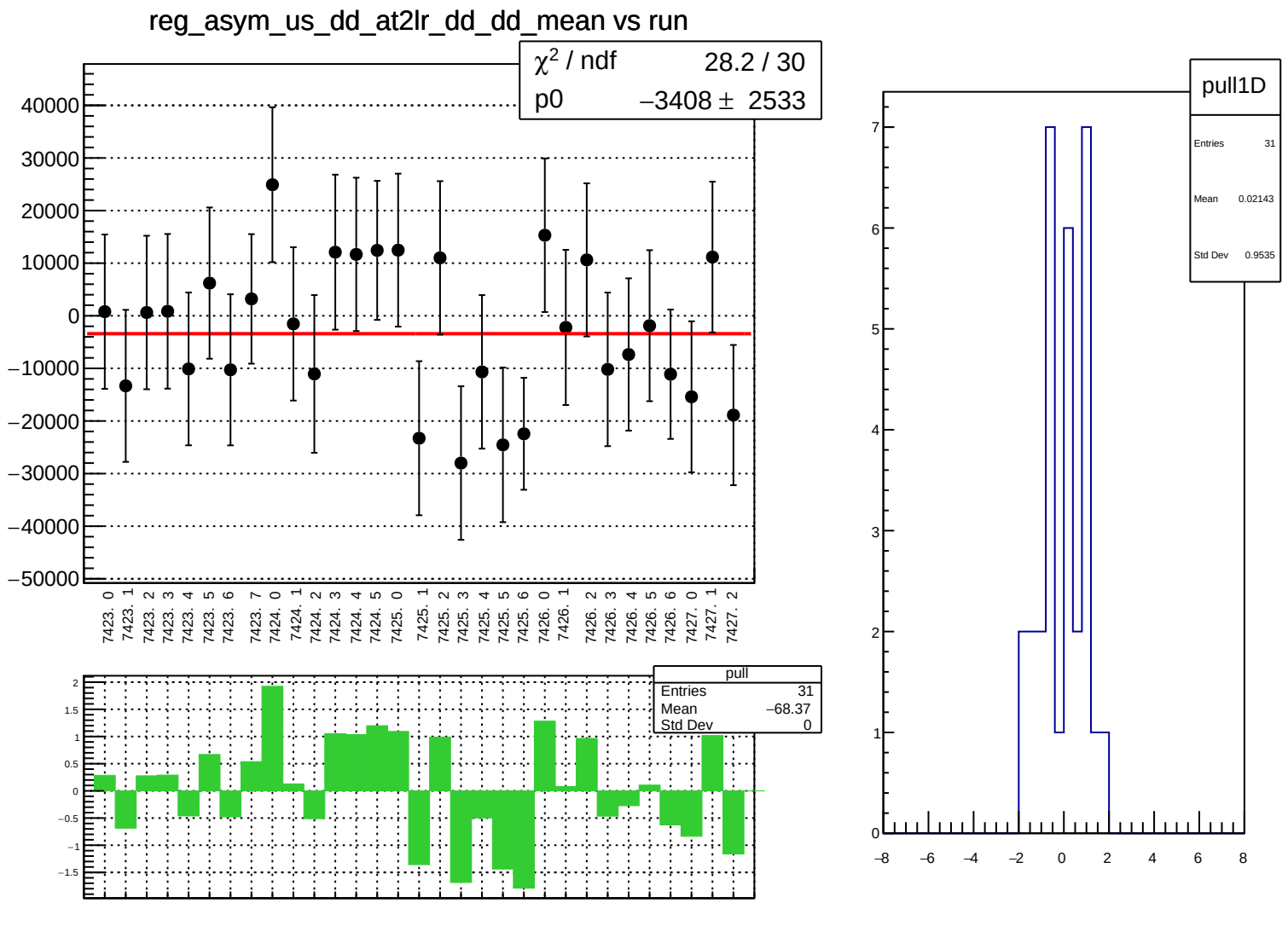

pull1D
Entries 31
Mean 0.007887
Std Dev 0.7869
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

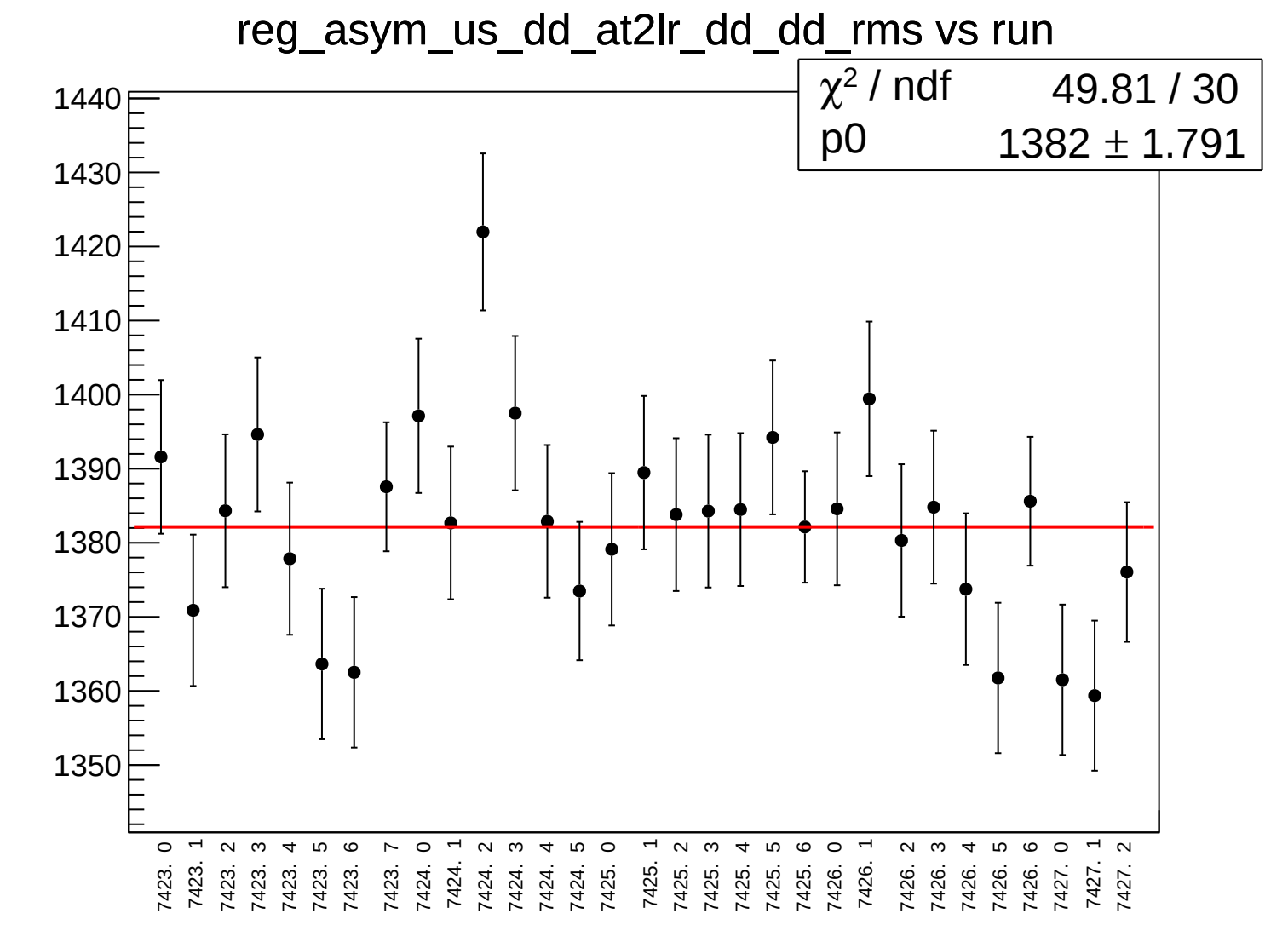

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5905 / 30
p0 417.8 ± 0.5441
540
520
500
480
460
440
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

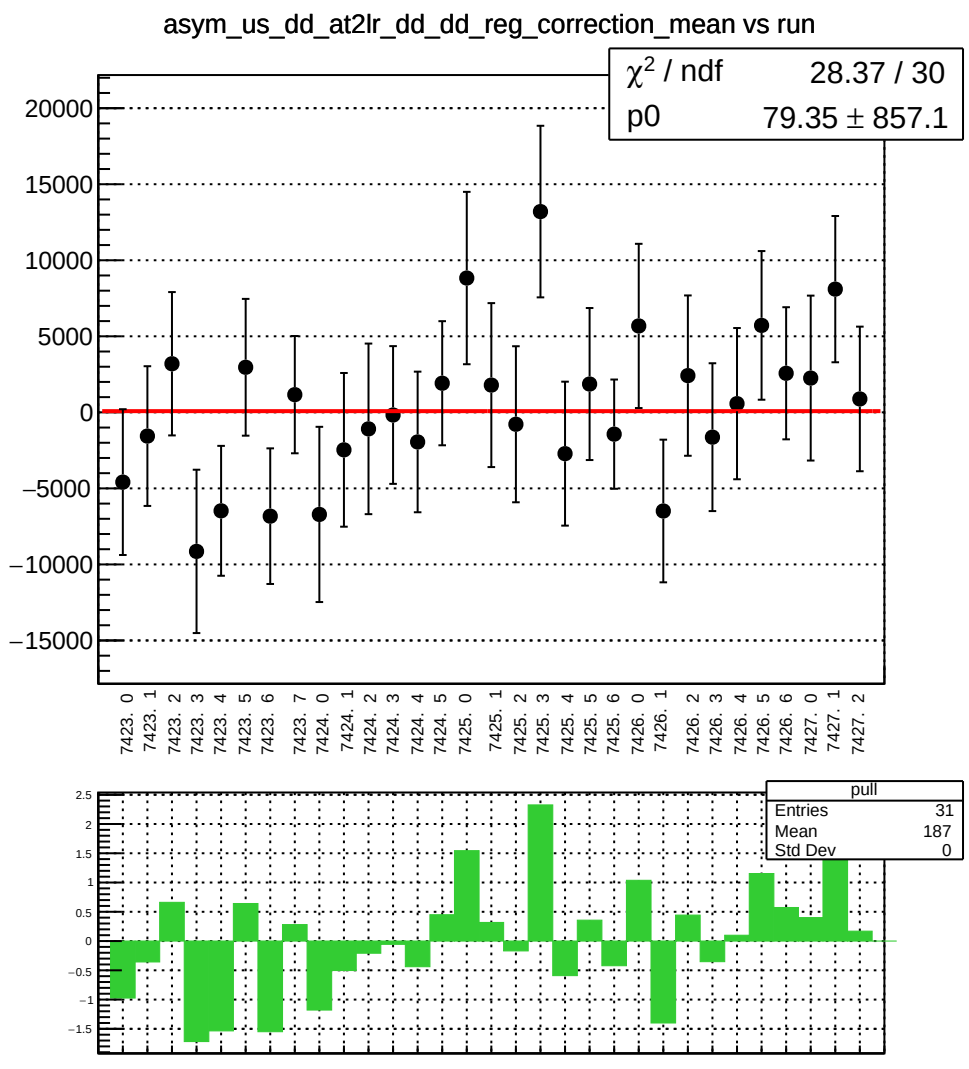

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.48 / 30
p0 1.652e−14 ± 1.848e−14
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 17.07
Std Dev 9.285
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

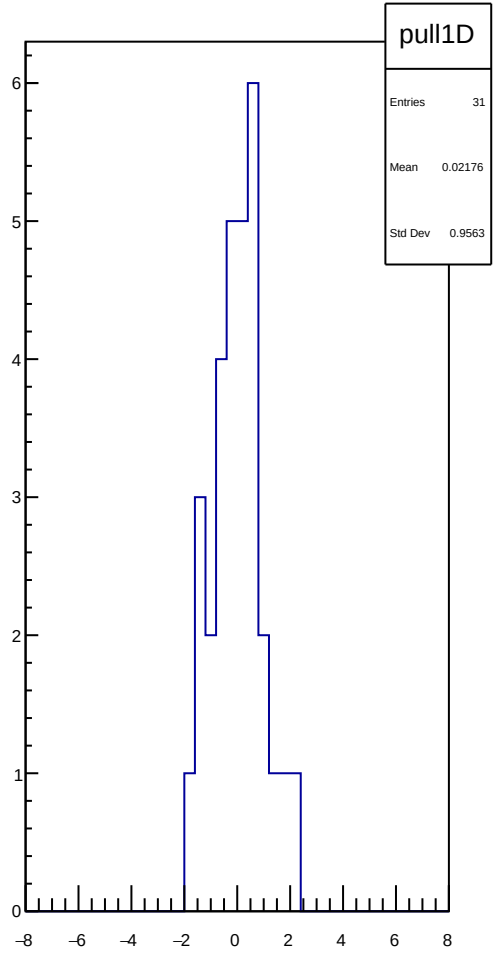

pull1D
Entries 31
Mean −0.2467
Std Dev 1.101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

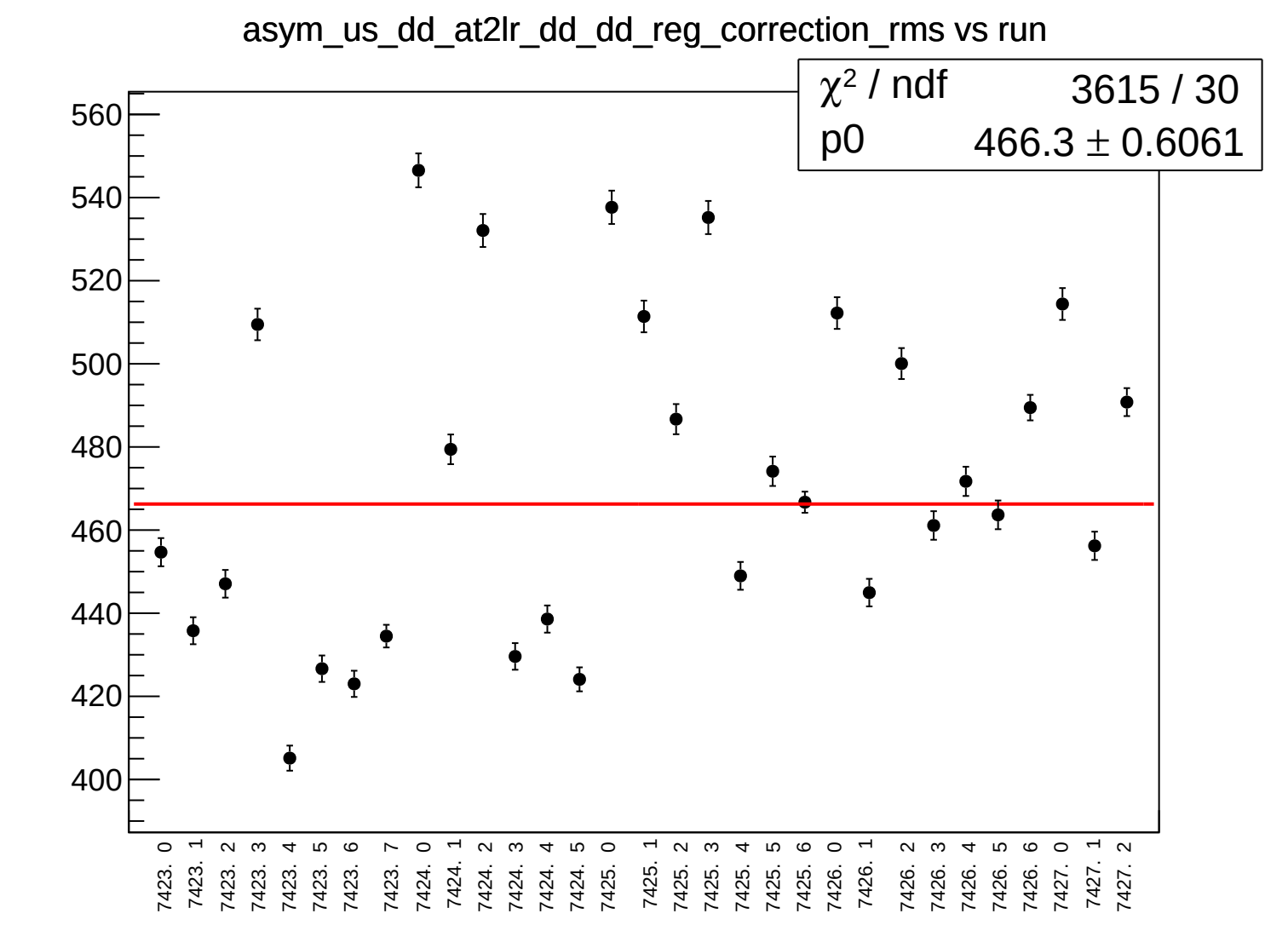

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.876e+05 / 30
p0 7.251e−12 ± 1.307e−14
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

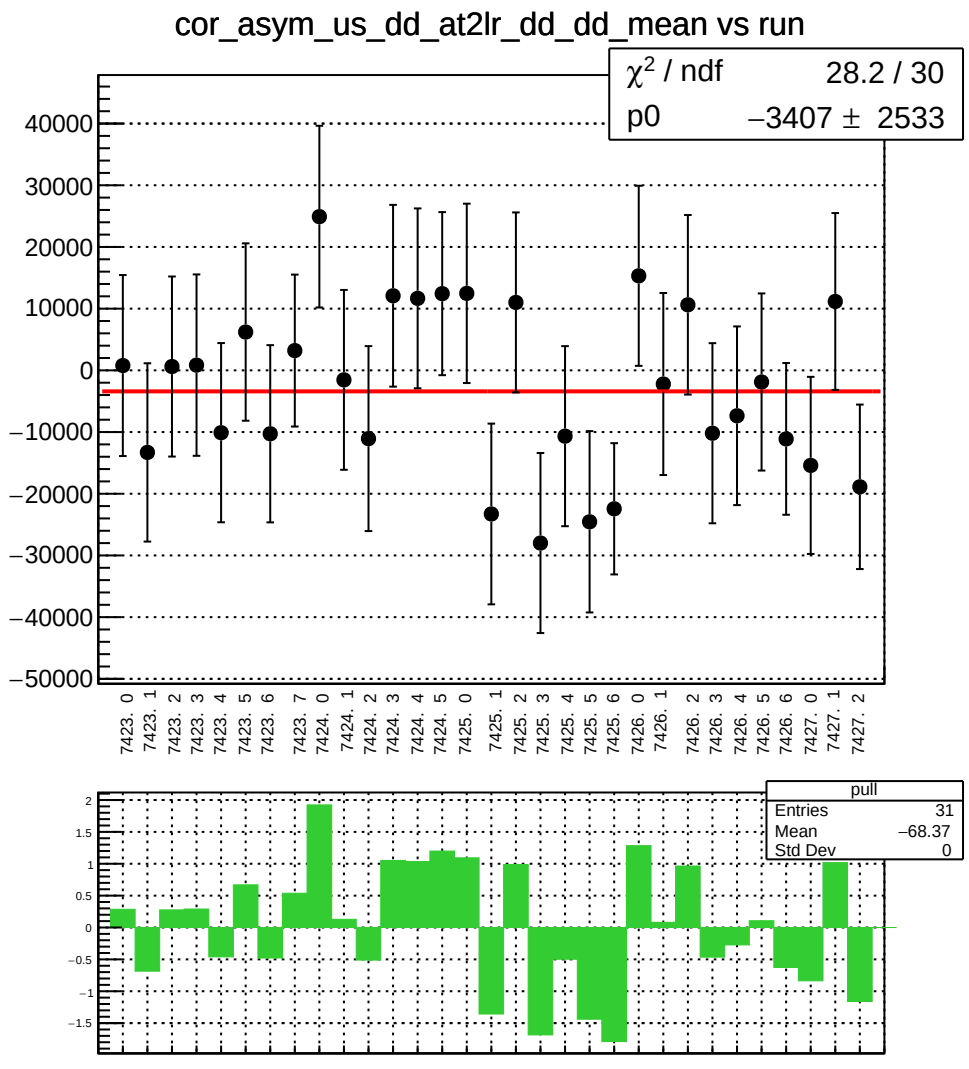

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 28.2 / 30
p0 −3408 ± 2533
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −68.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.02143
Std Dev 0.9535
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

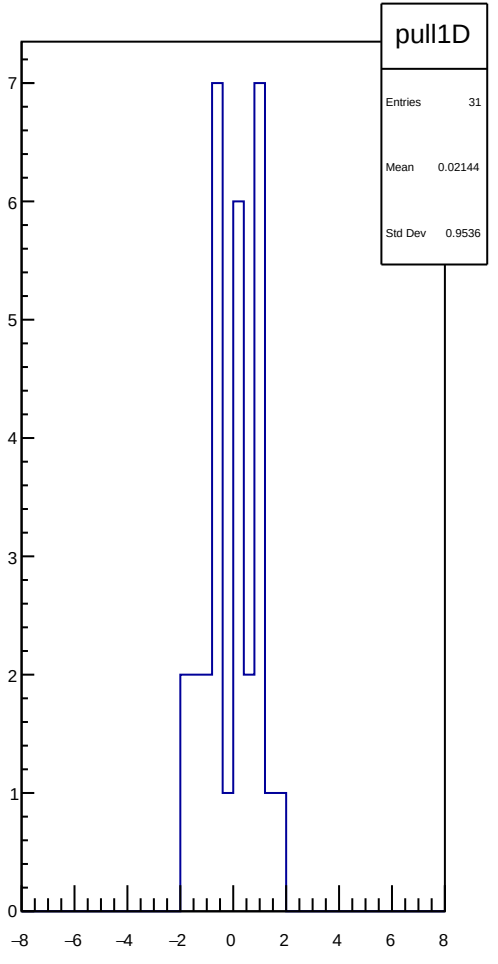

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 49.81 / 30
p0 1382 ± 1.791
1440
1430
1420
1410
1400
1390
1380
1370
1360
1350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

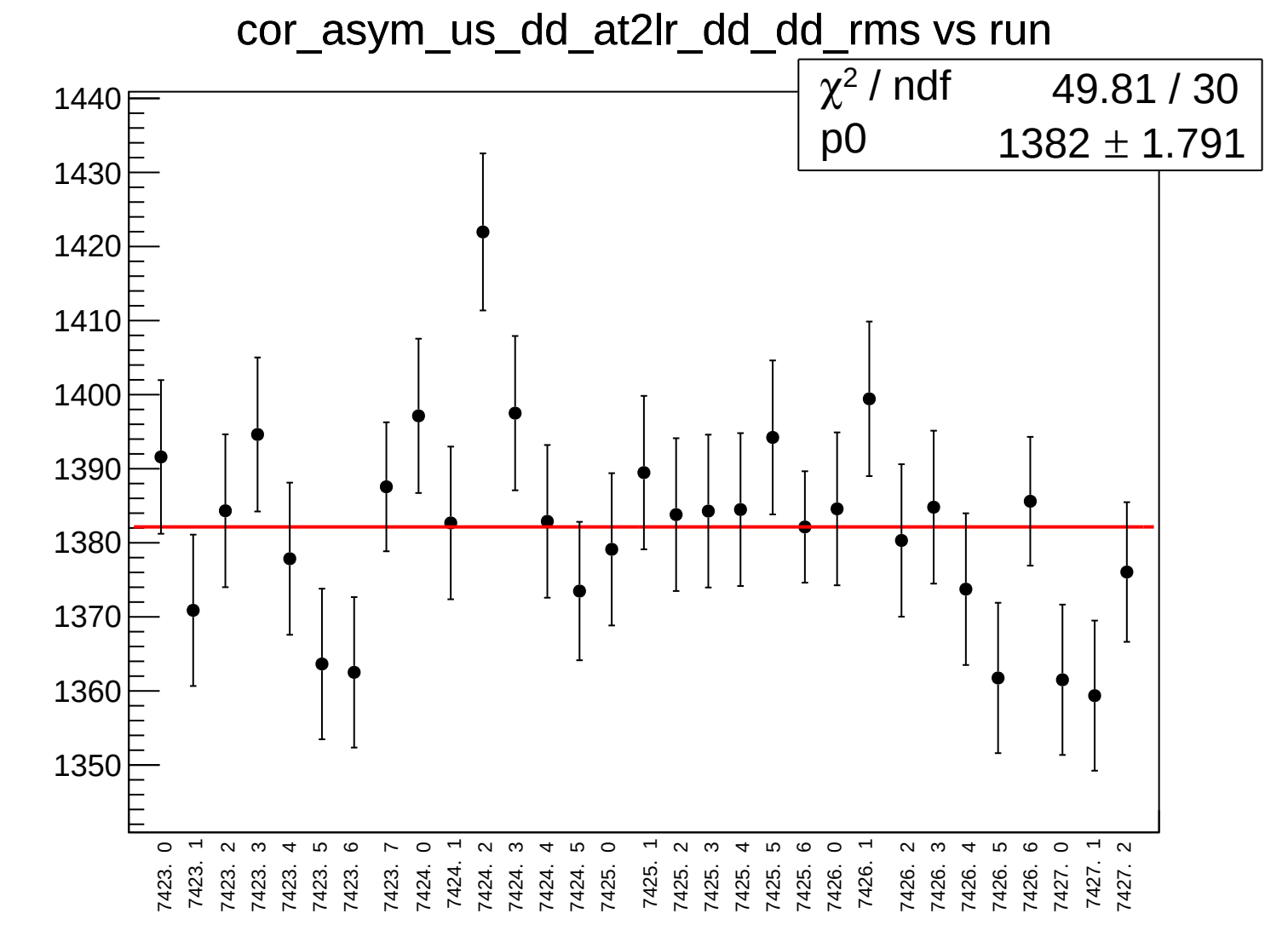

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 28.37 / 30
p0 79.35 ± 857.1
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 187
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

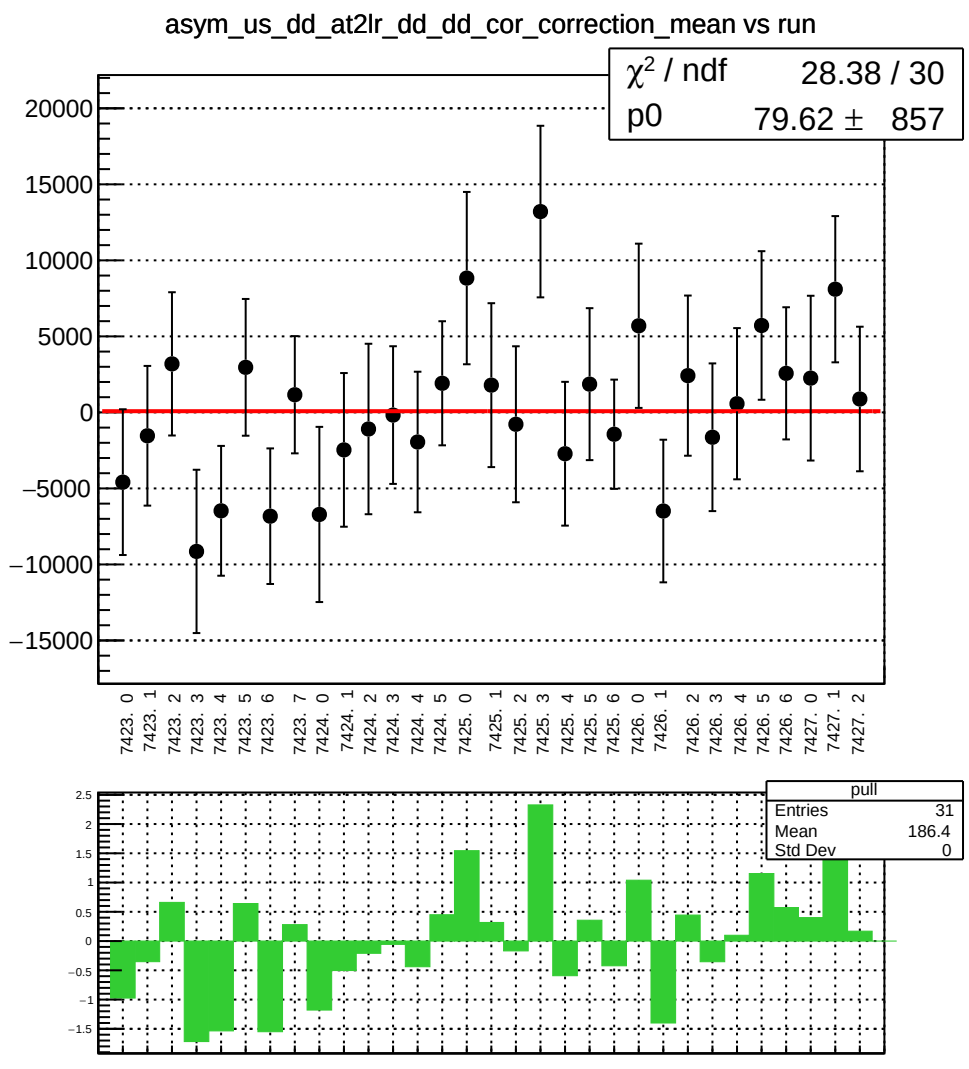

pull1D
Entries 31
Mean 0.02176
Std Dev 0.9563
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

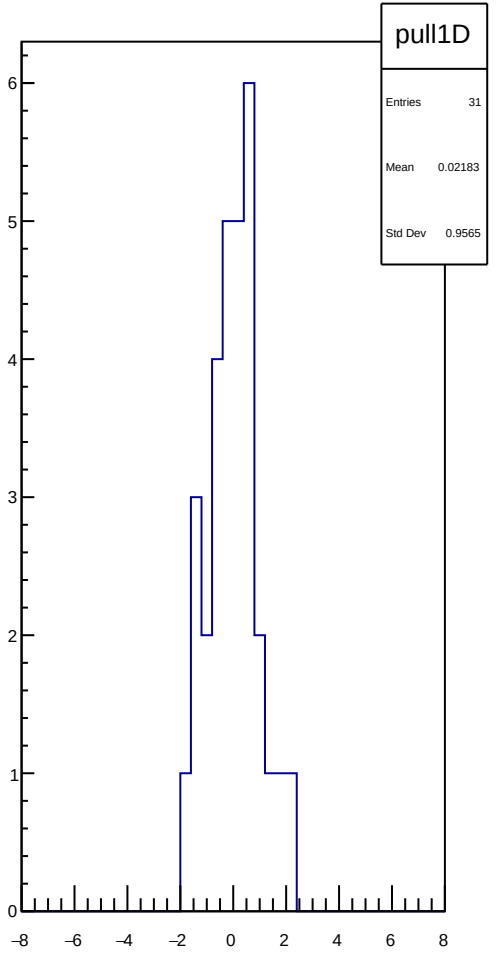

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3615 / 30
p0 466.3 ± 0.6061
560
540
520
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

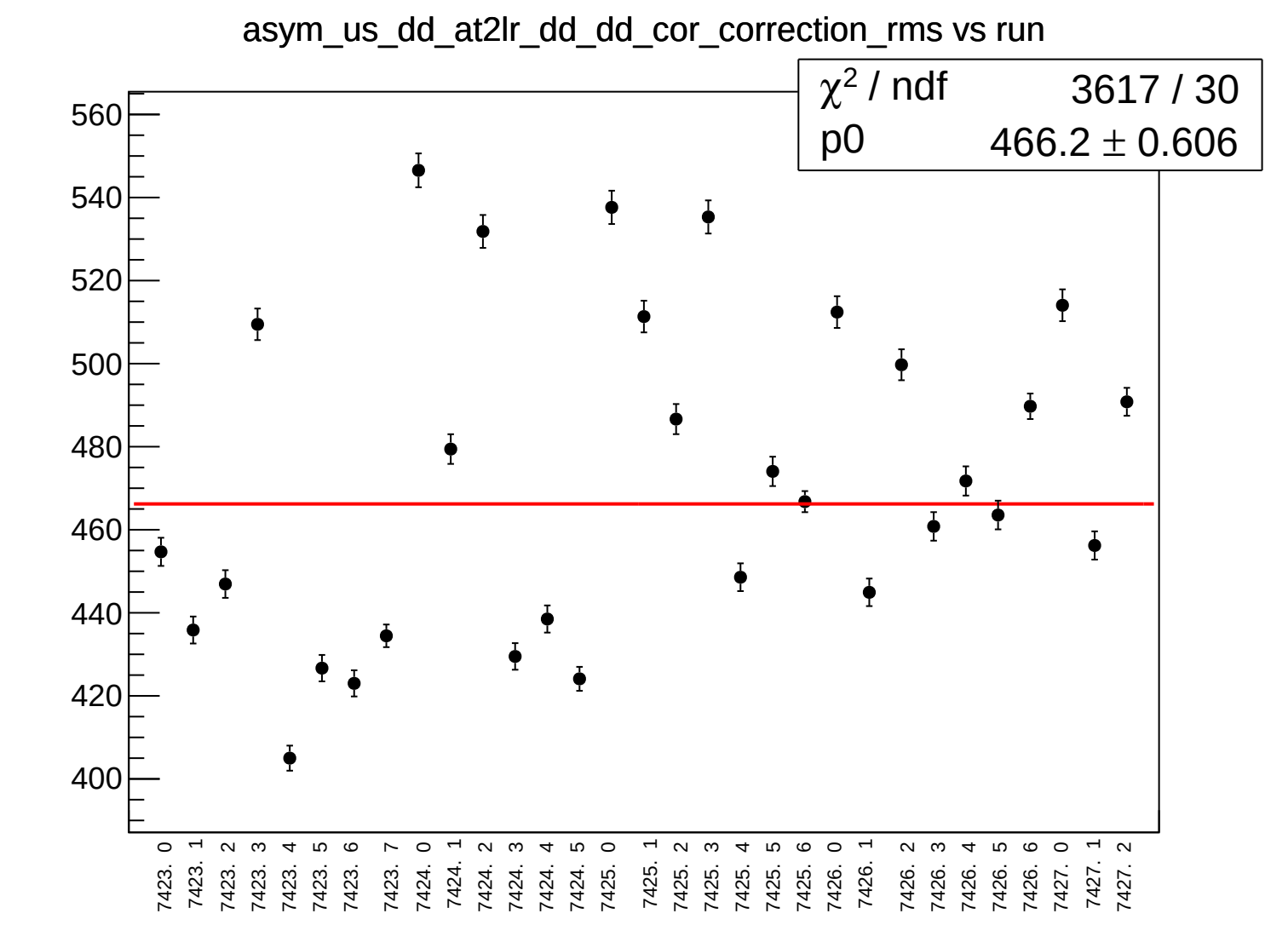

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 28.2 / 30
p0 −3407 ± 2533
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −68.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

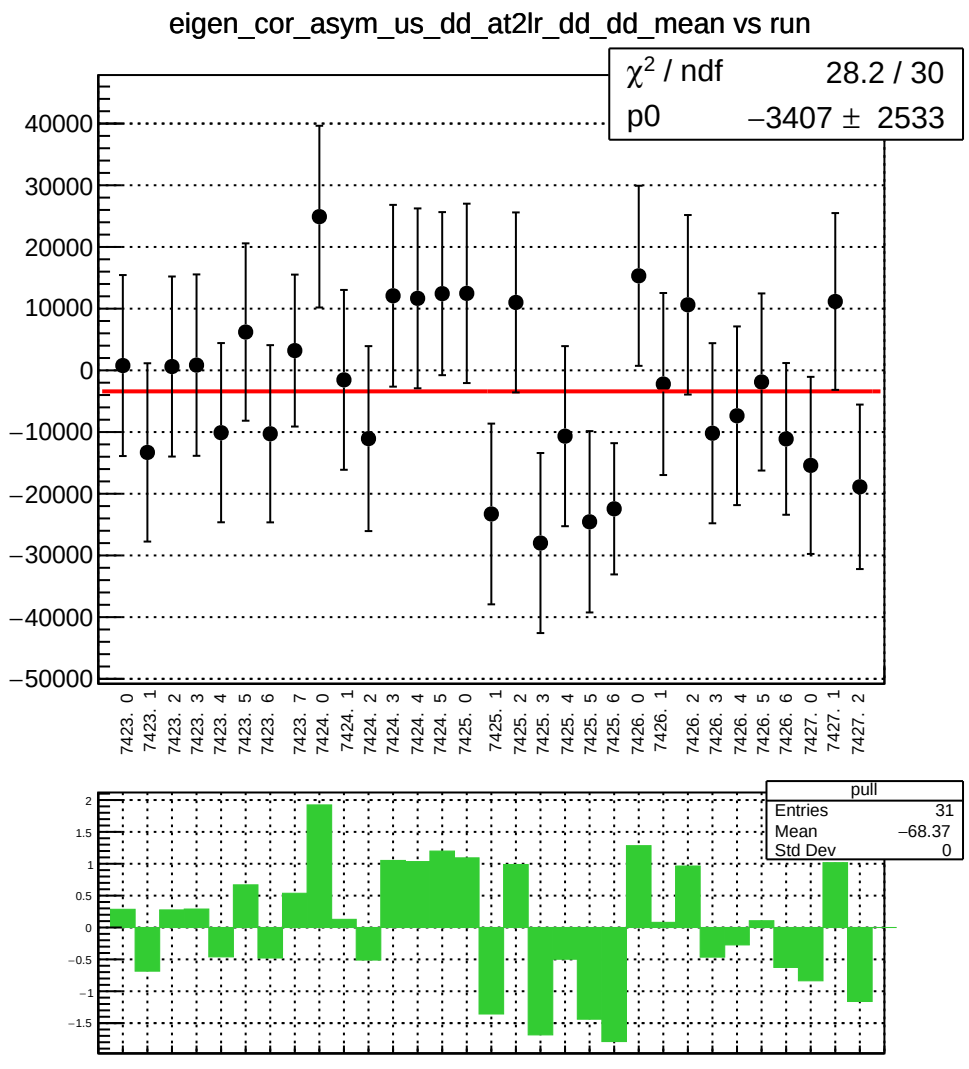

pull1D
Entries 31
Mean 0.02144
Std Dev 0.9536
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

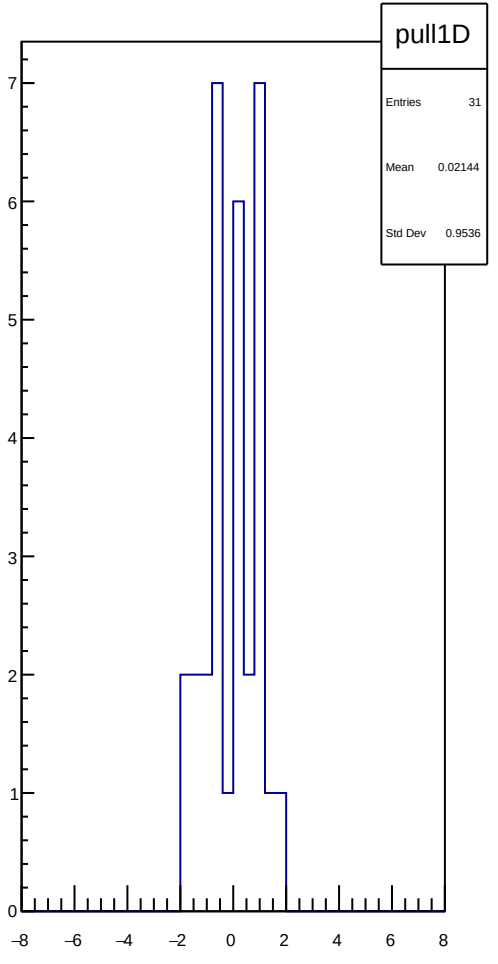

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 49.81 / 30
p0 1382 ± 1.791
1440
1430
1420
1410
1400
1390
1380
1370
1360
1350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

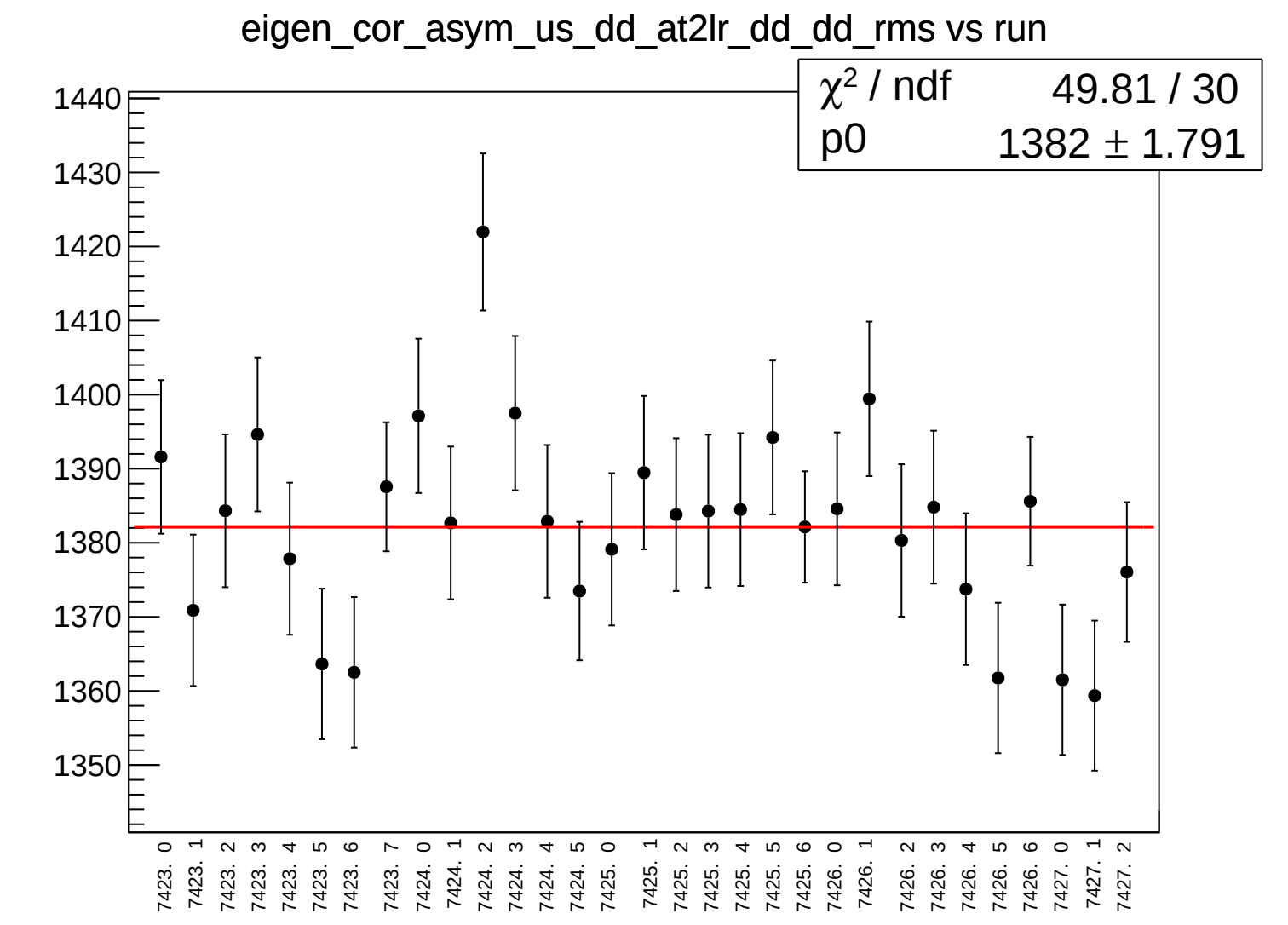

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 28.38 / 30
p0 79.62 ± 857
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 186.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

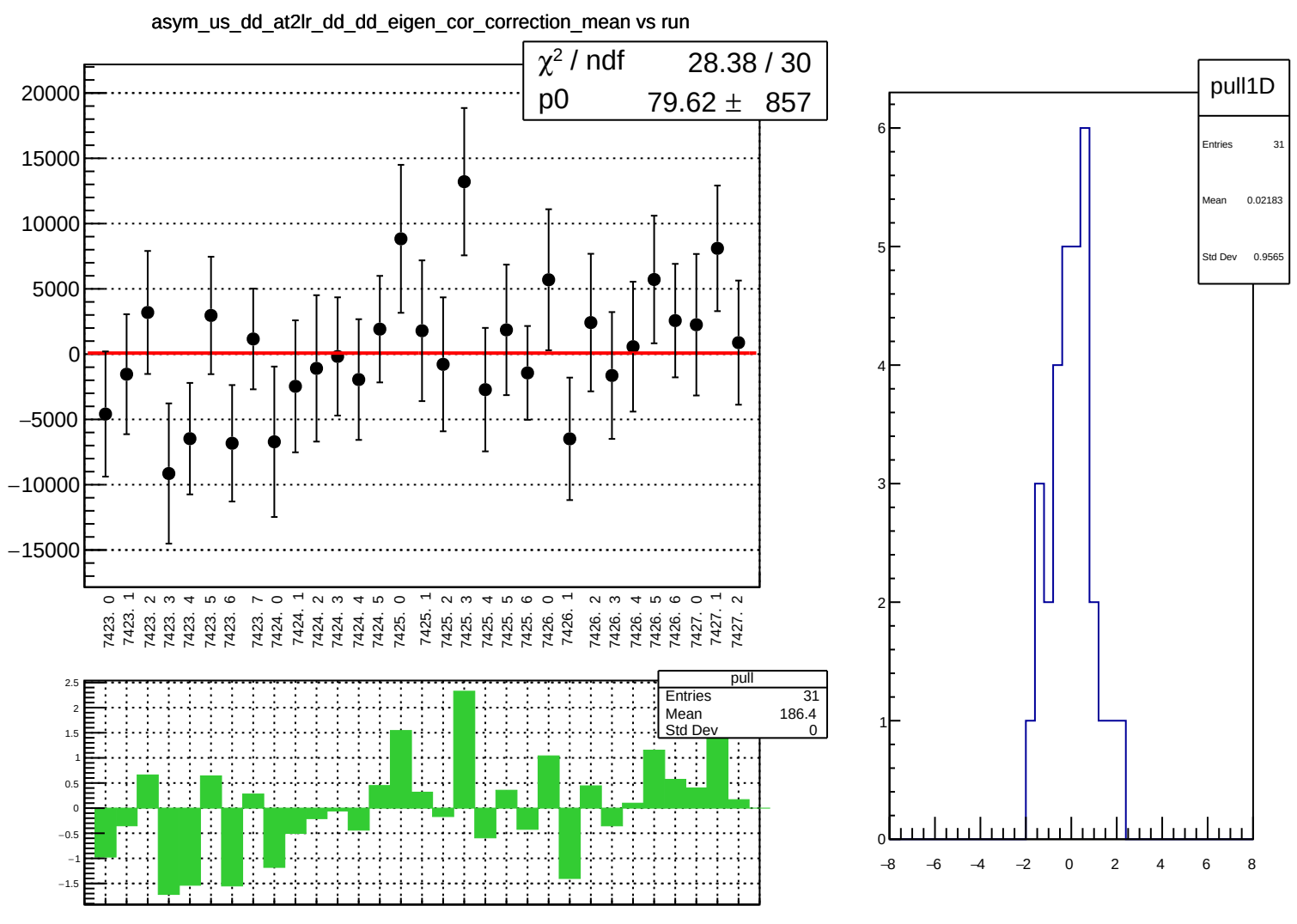

pull1D
Entries 31
Mean 0.02183
Std Dev 0.9565
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

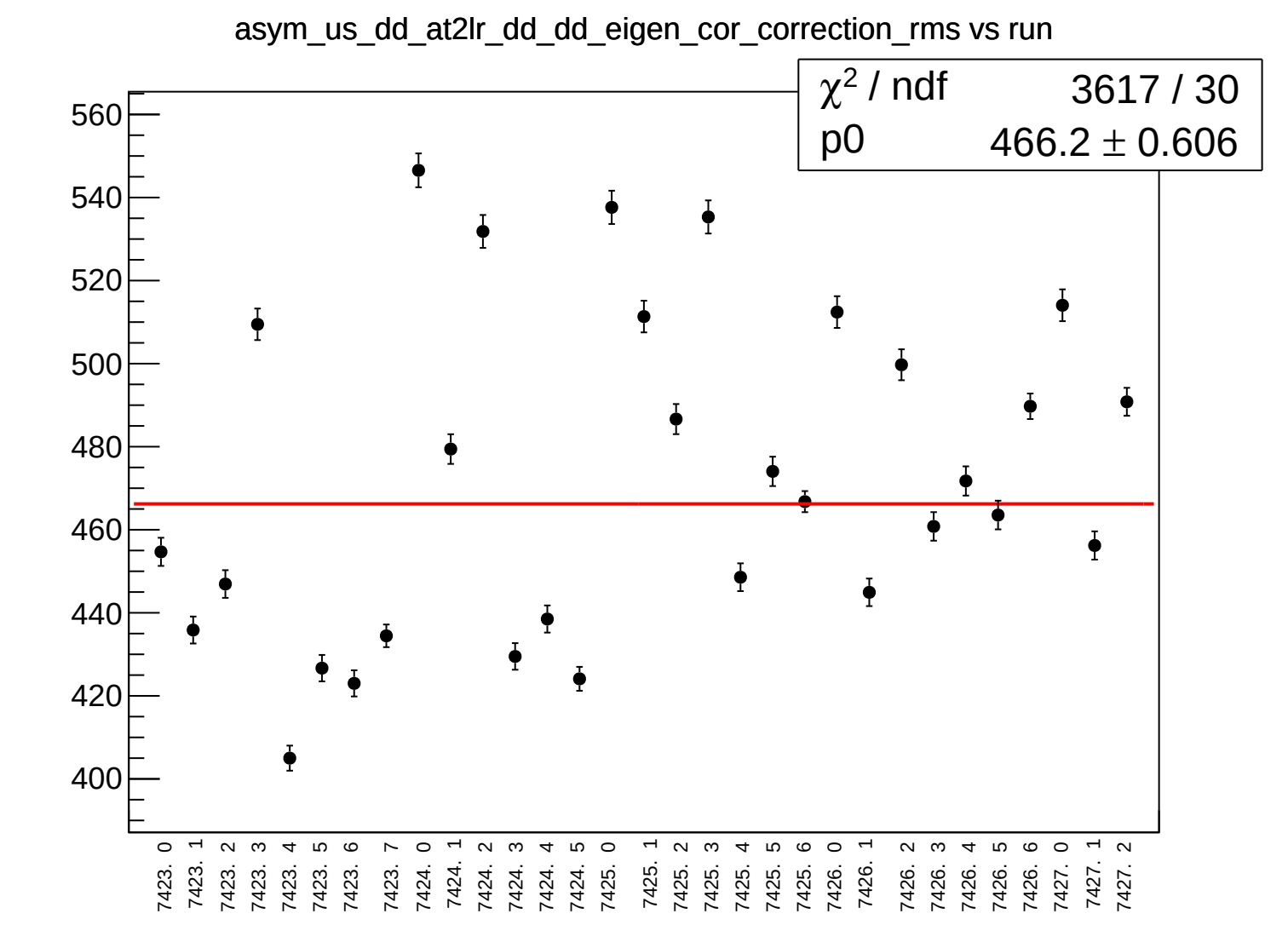

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3617 / 30
p0 466.2 ± 0.606
560
540
520
500
480
460
440
420
400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

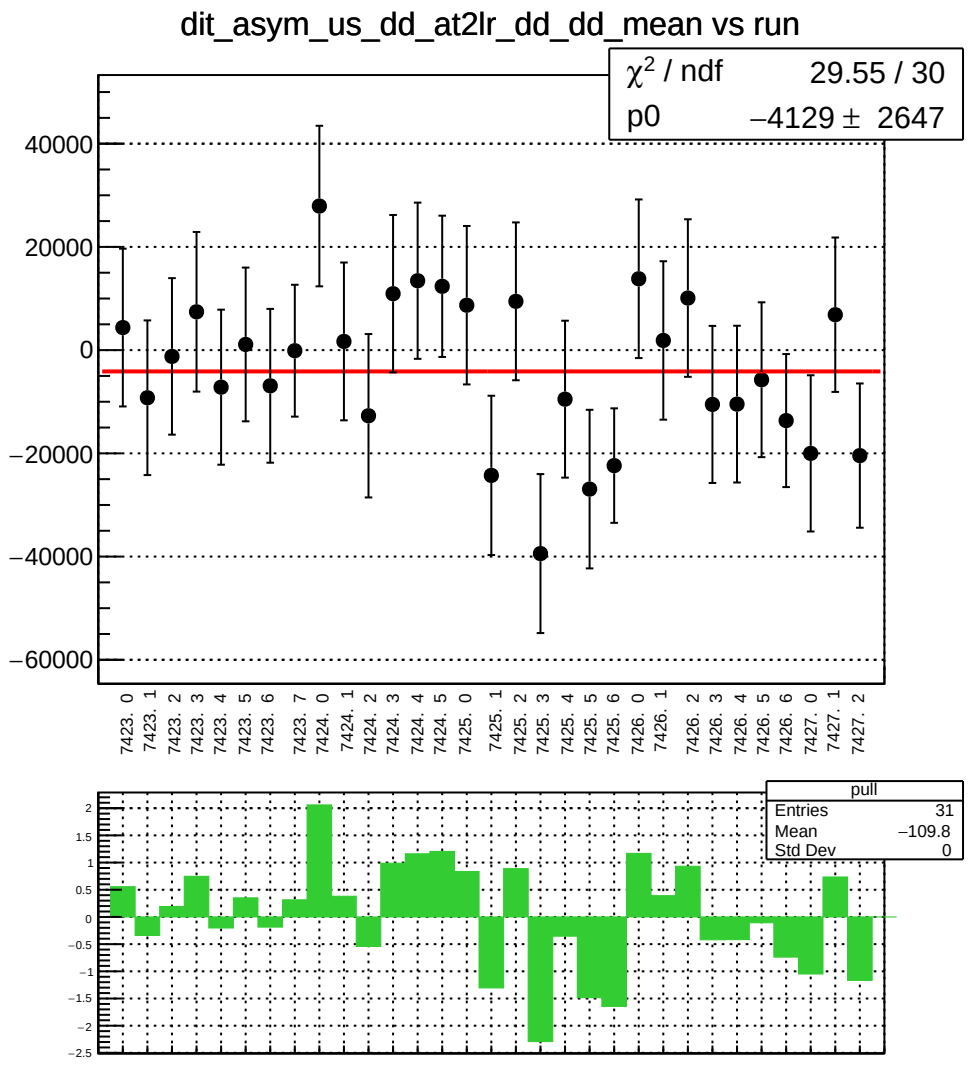

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 28.2 / 30
p0 −3407 ± 2533
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −68.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

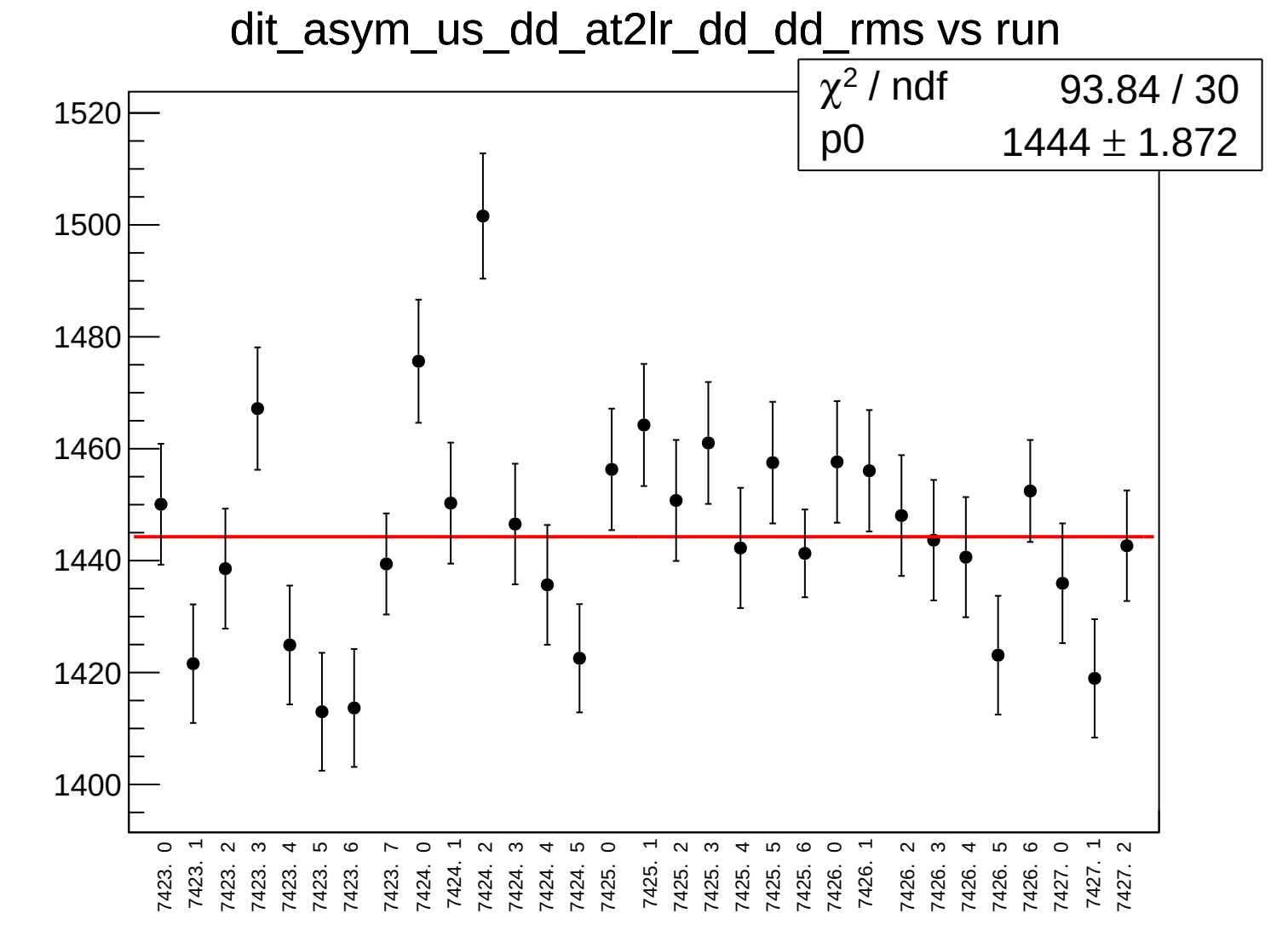

pull1D
Entries 31
Mean 0.02144
Std Dev 0.9536
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 49.81 / 30
p0 1382 ± 1.791
1440
1430
1420
1410
1400
1390
1380
1370
1360
1350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

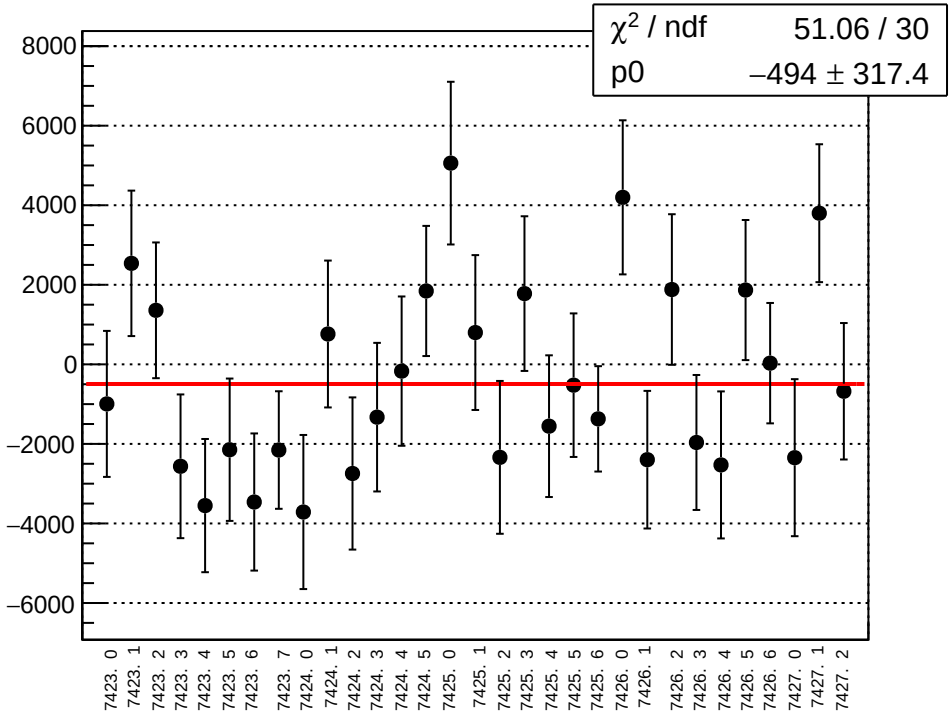

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 28.38 / 30
p0 79.62 ± 857
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 186.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.02183
Std Dev 0.9565
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

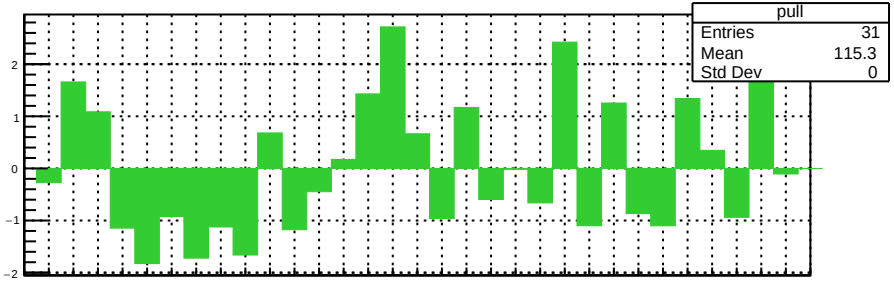

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3617 / 30
p0 466.2 ± 0.606
560
540
520
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

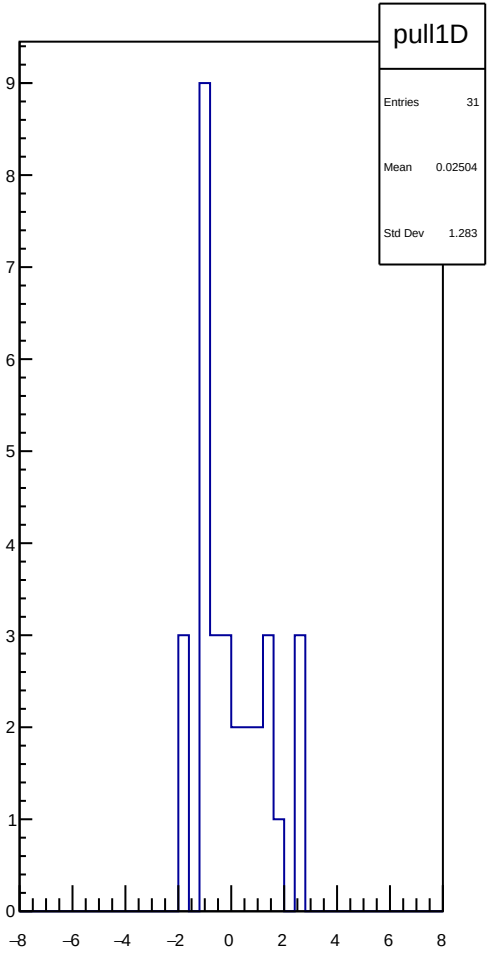

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 29.55 / 30
p0 −4129 ± 2647
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −109.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.02122
Std Dev 0.9761
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

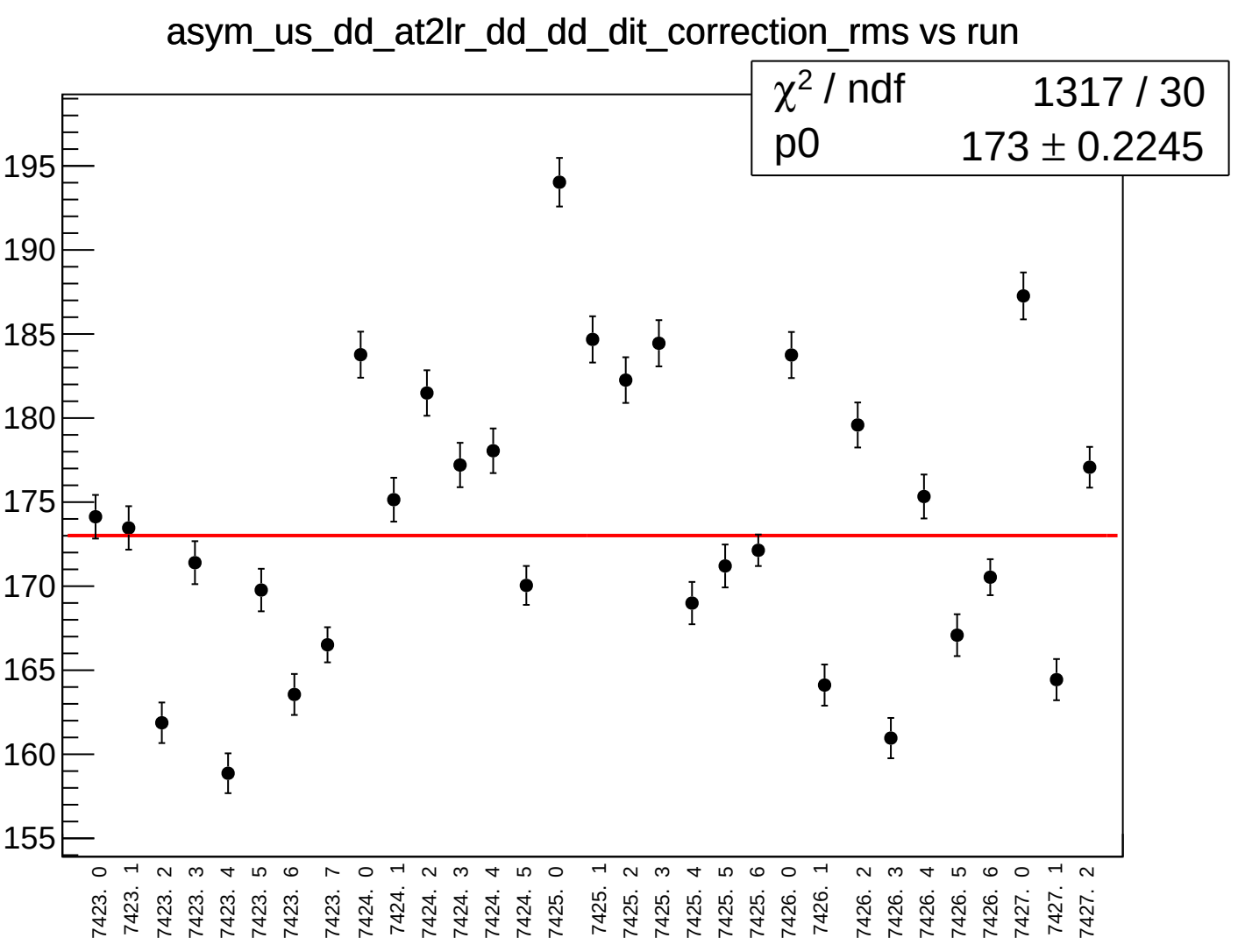

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 93.84 / 30
p0 1444 ± 1.872
1520
1500
1480
1460
1440
1420
1400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

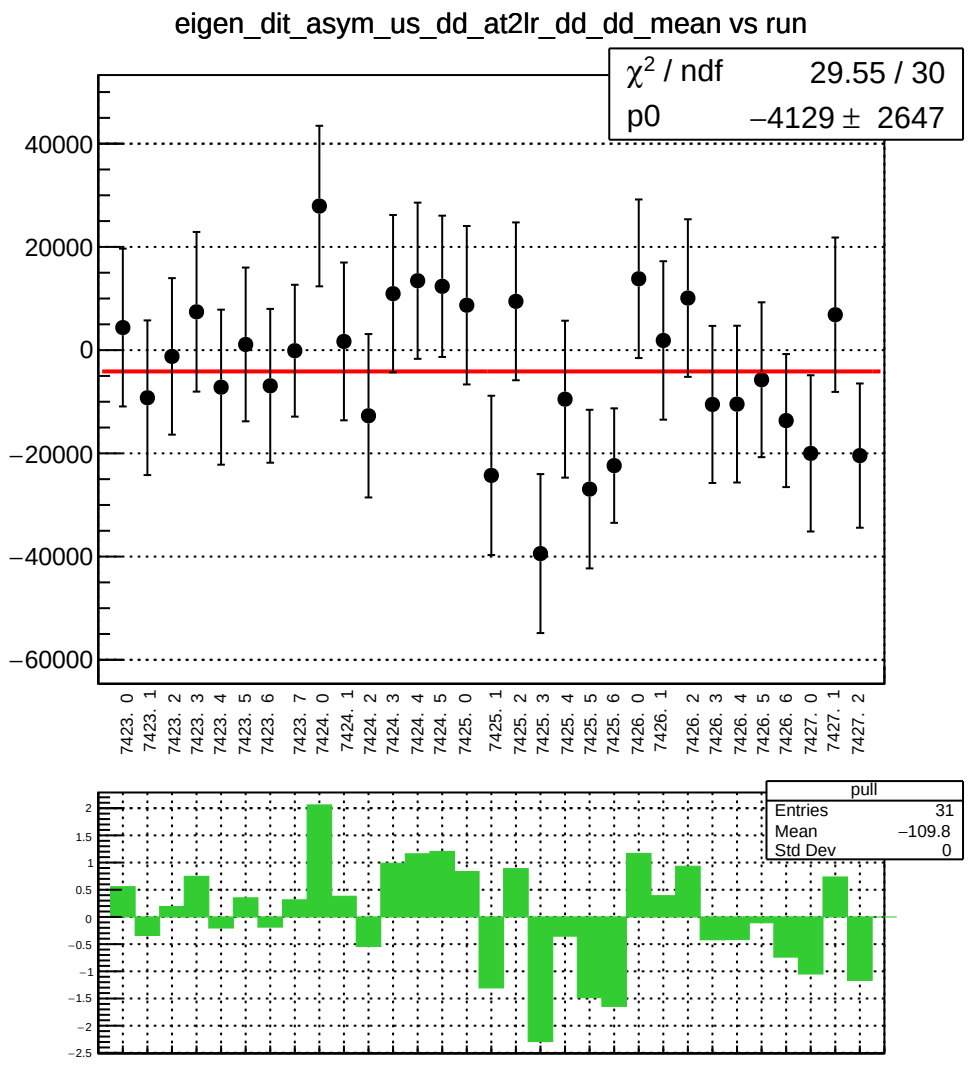
asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run

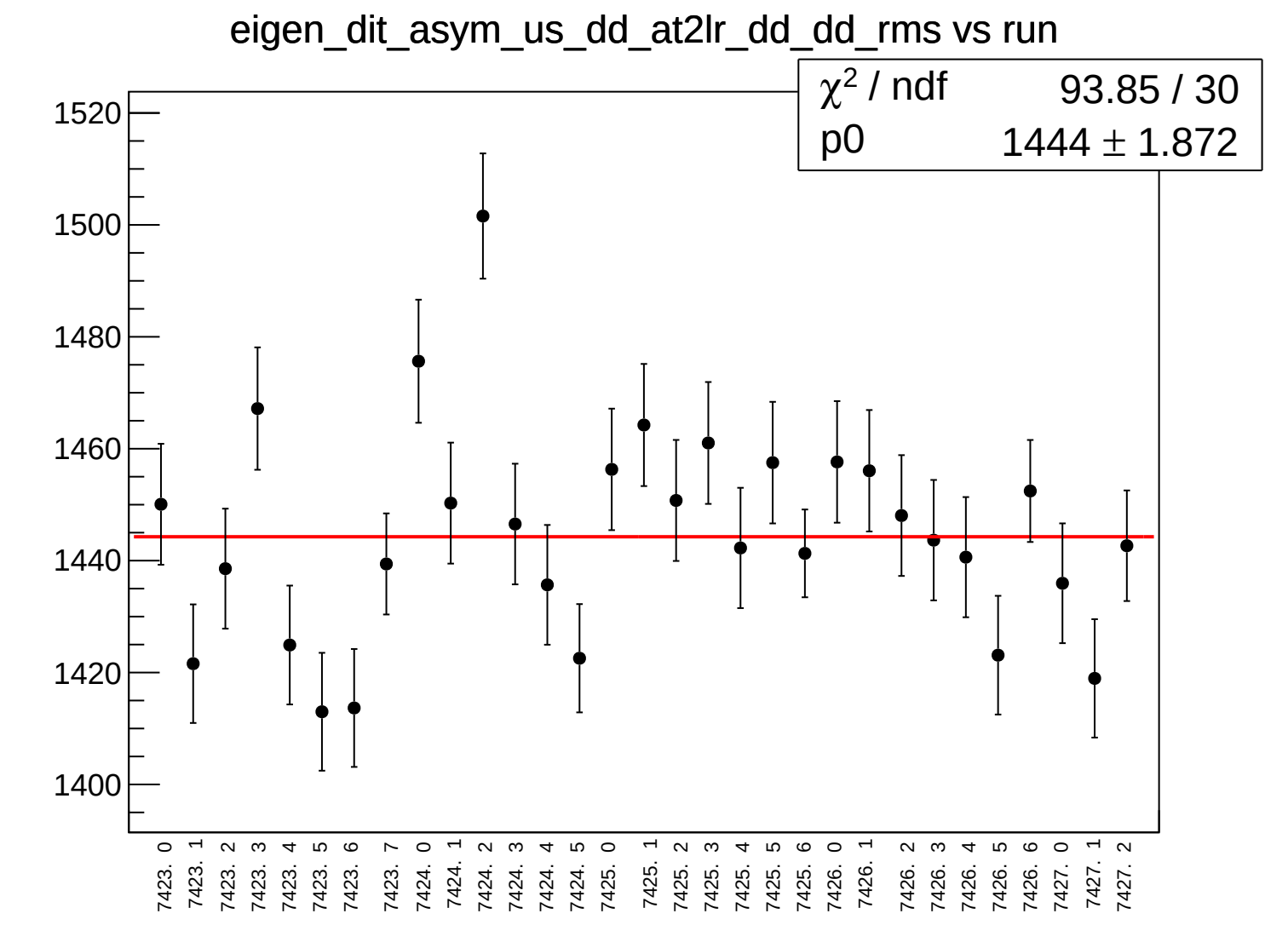




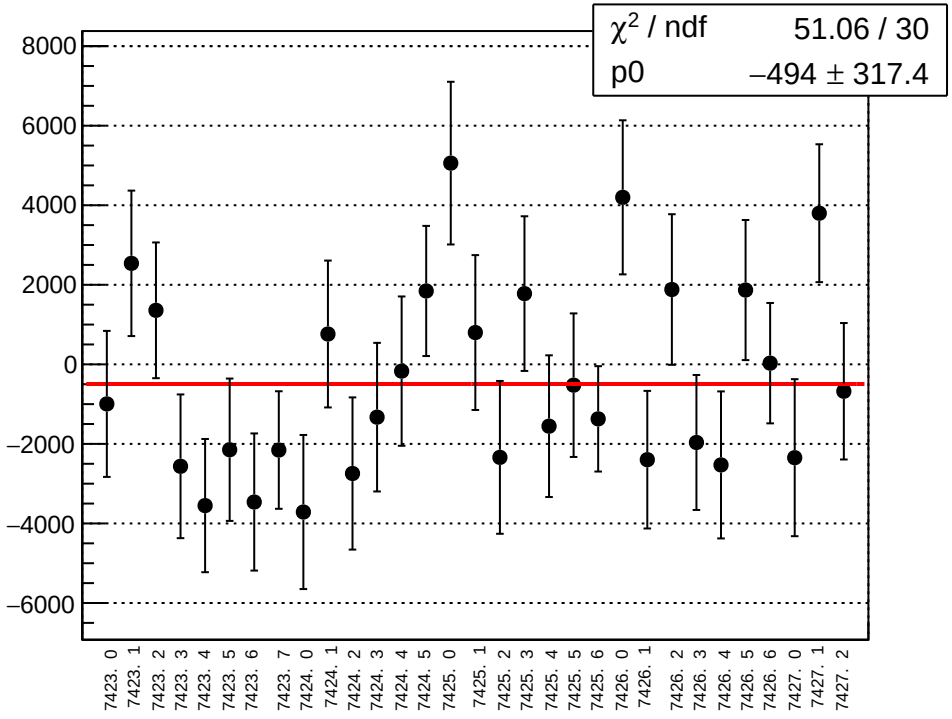


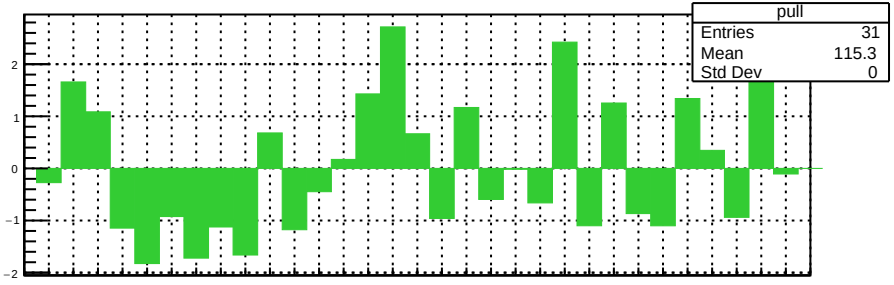

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1317 / 30
p0 173 ± 0.2245
195
190
185
180
175
170
165
160
155
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

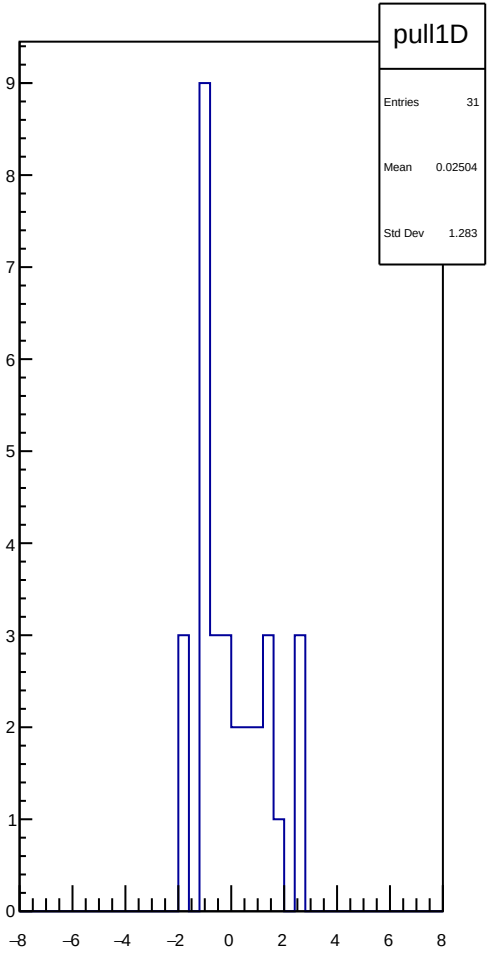

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 29.55 / 30
p0 −4129 ± 2647
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −109.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.02122
Std Dev 0.9761
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

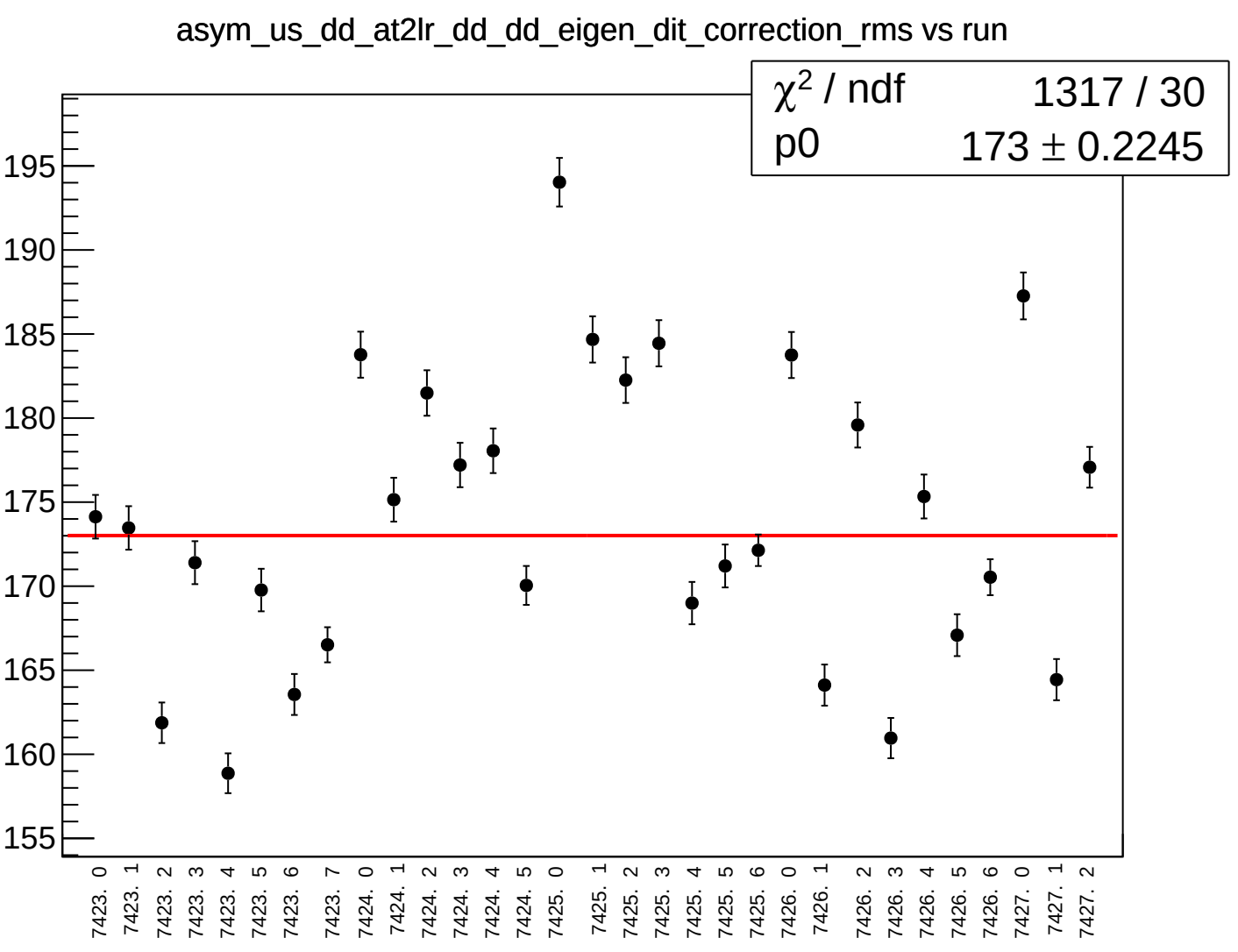

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 93.85 / 30
p0 1444 ± 1.872
1520
1500
1480
1460
1440
1420
1400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

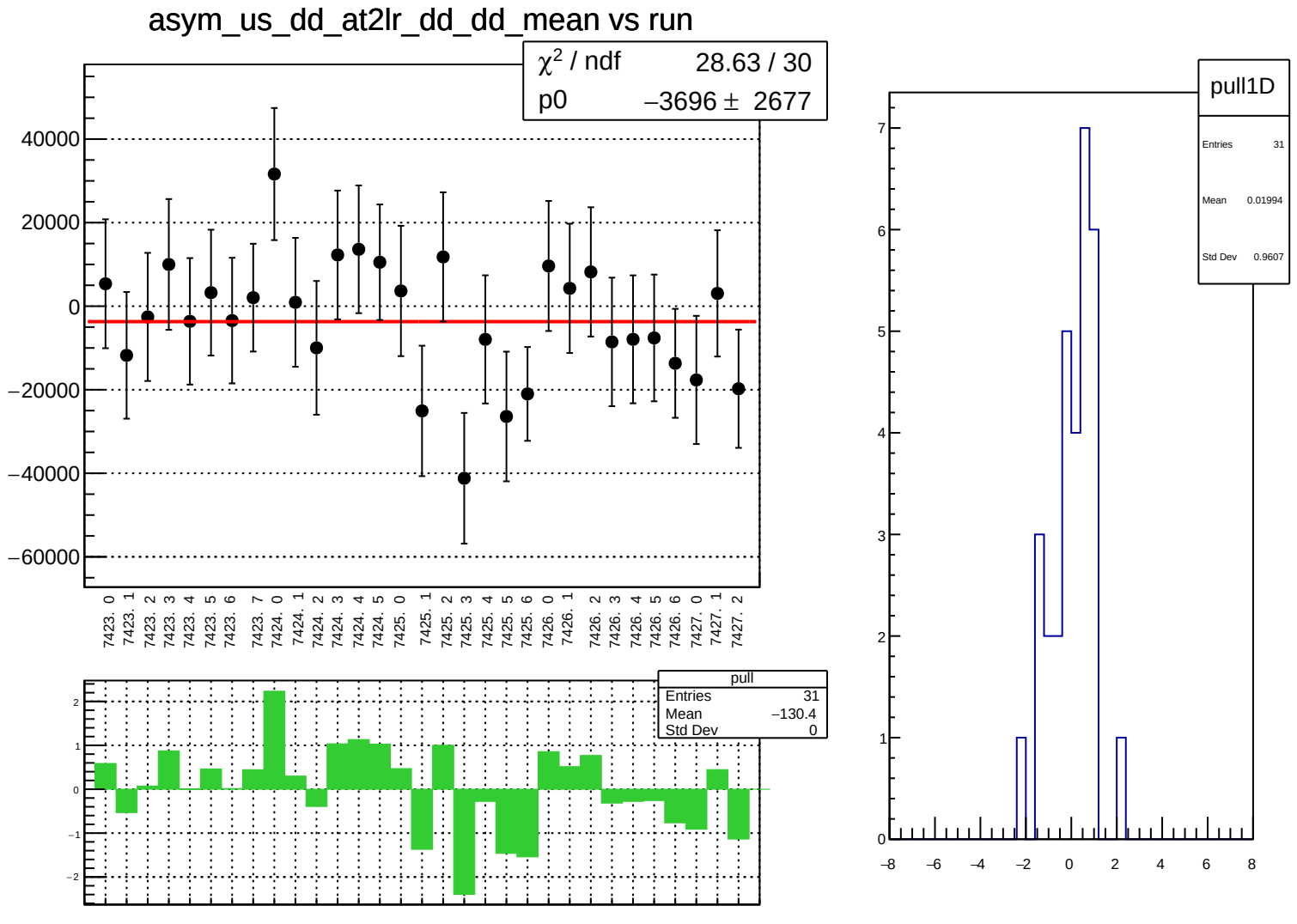
asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run

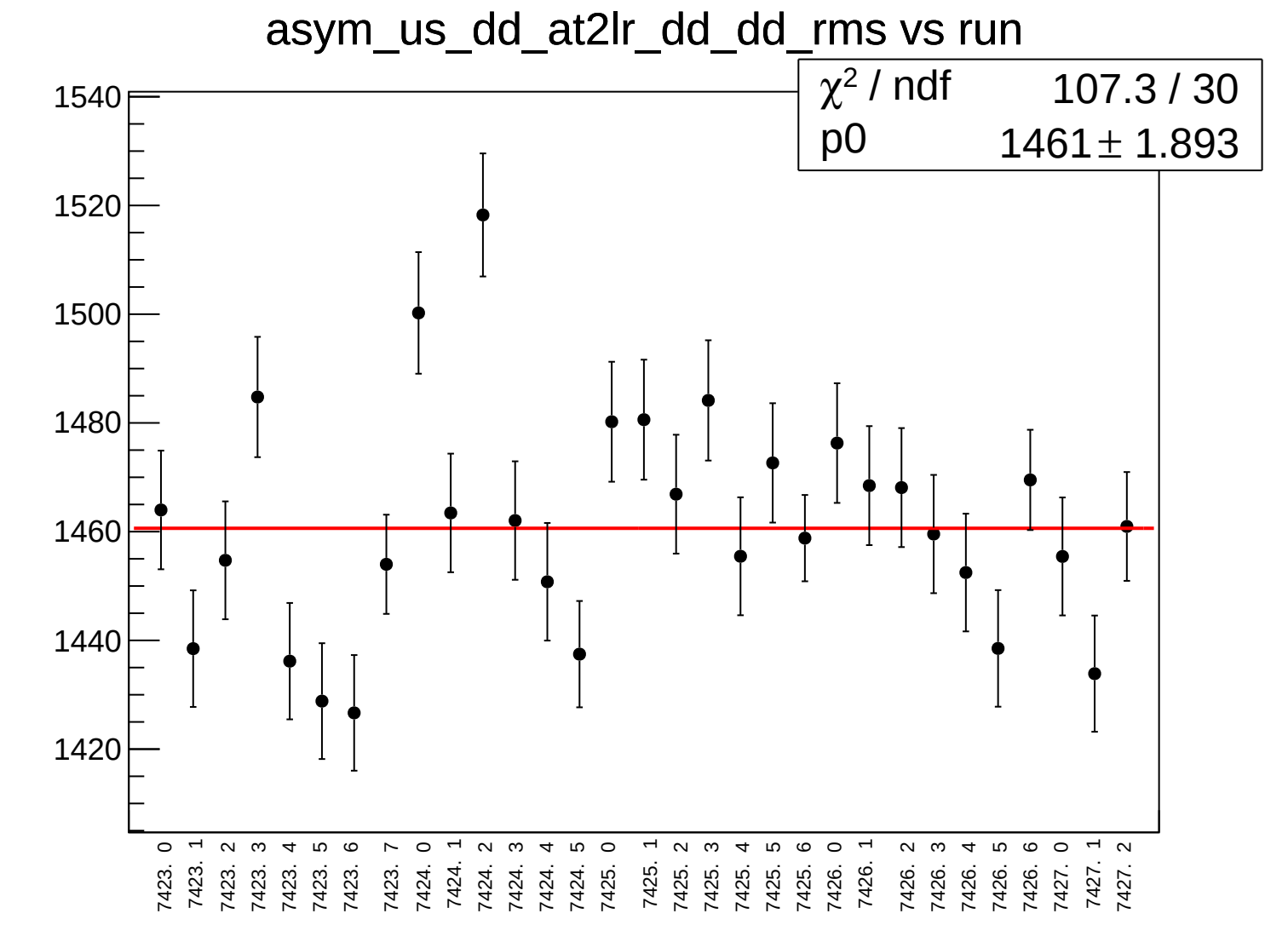


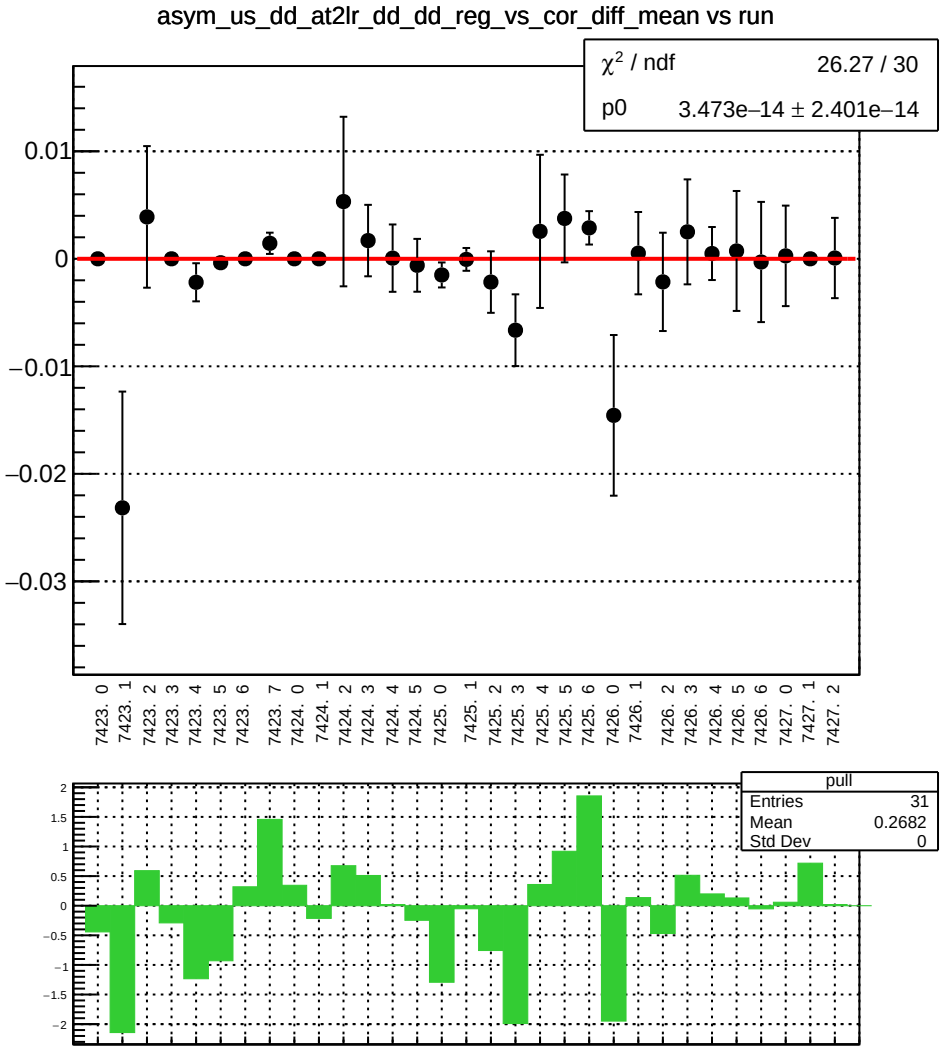


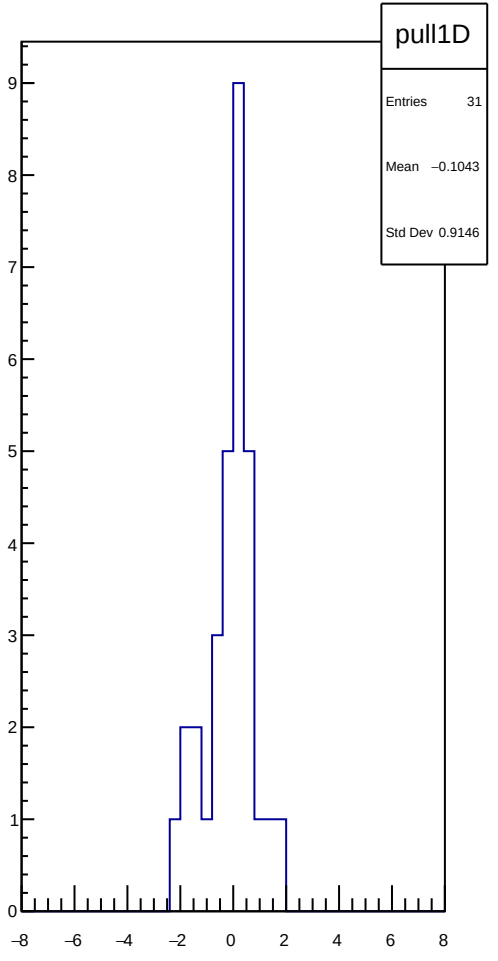


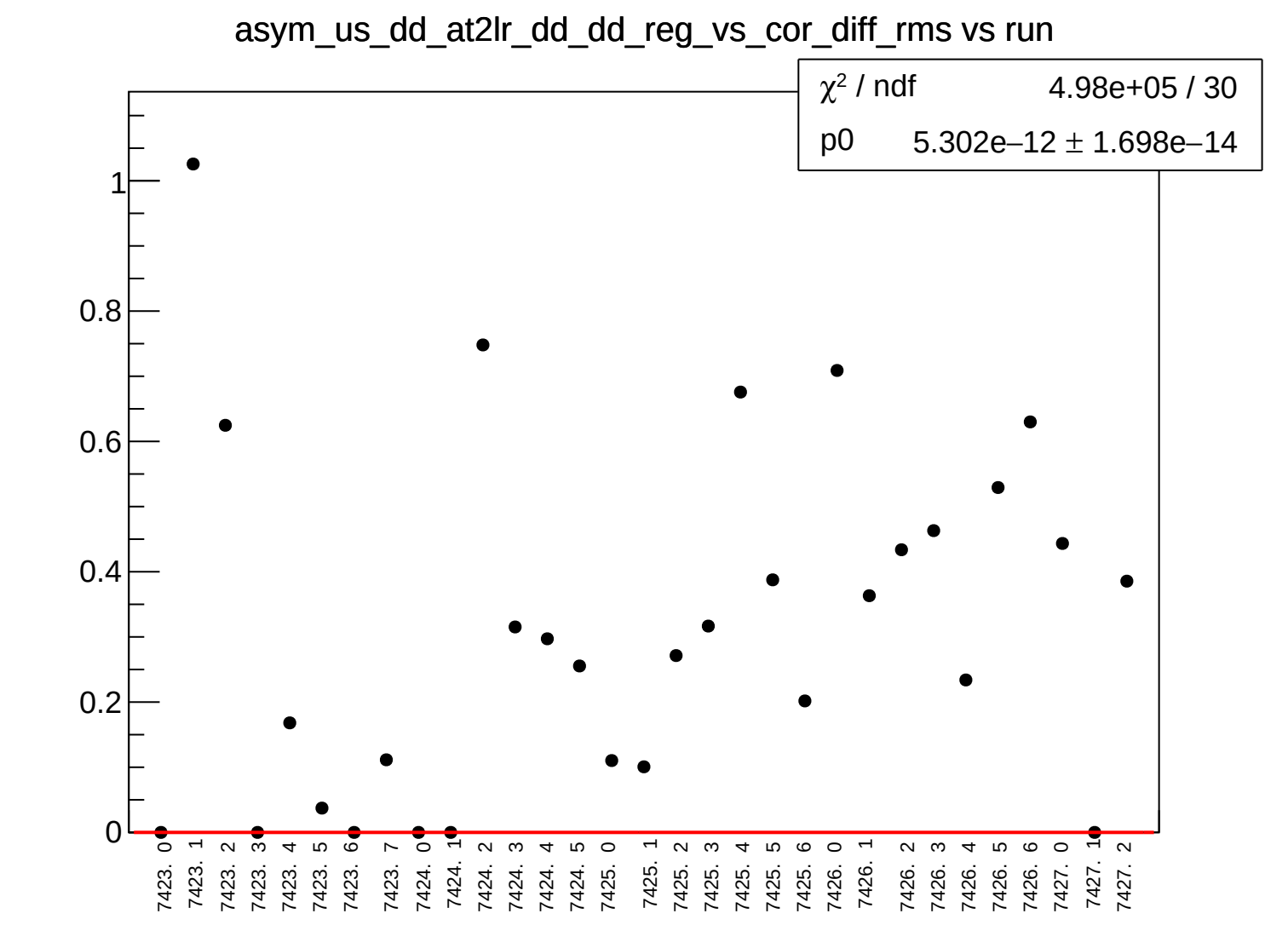

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1317 / 30
p0 173 ± 0.2245
195
190
185
180
175
170
165
160
155
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

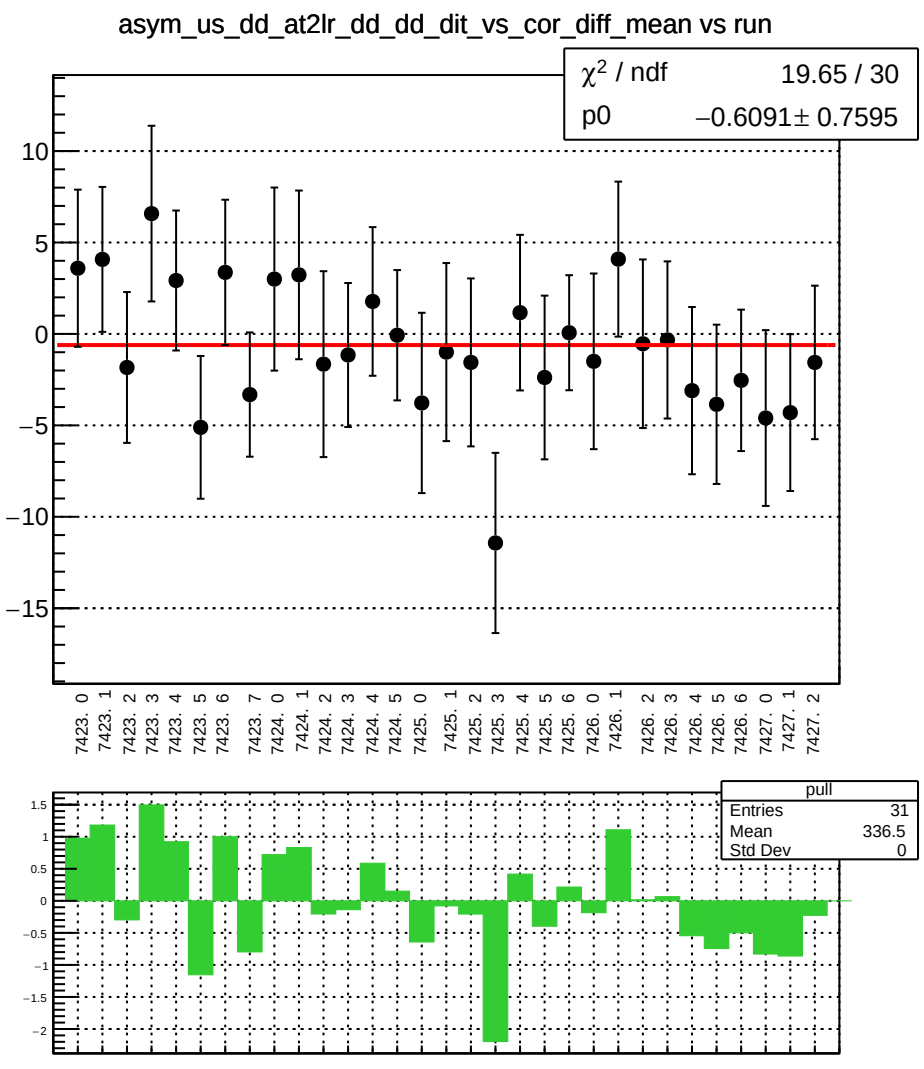

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 28.63 / 30
p0 −3696 ± 2677
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −130.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.01994
Std Dev 0.9607
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

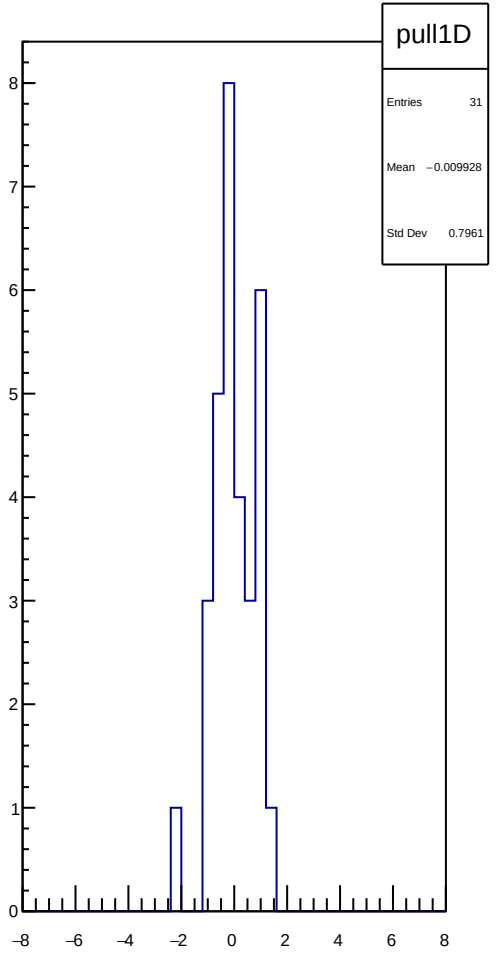

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 107.3 / 30
p0 1461 ± 1.893
1540
1520
1500
1480
1460
1440
1420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

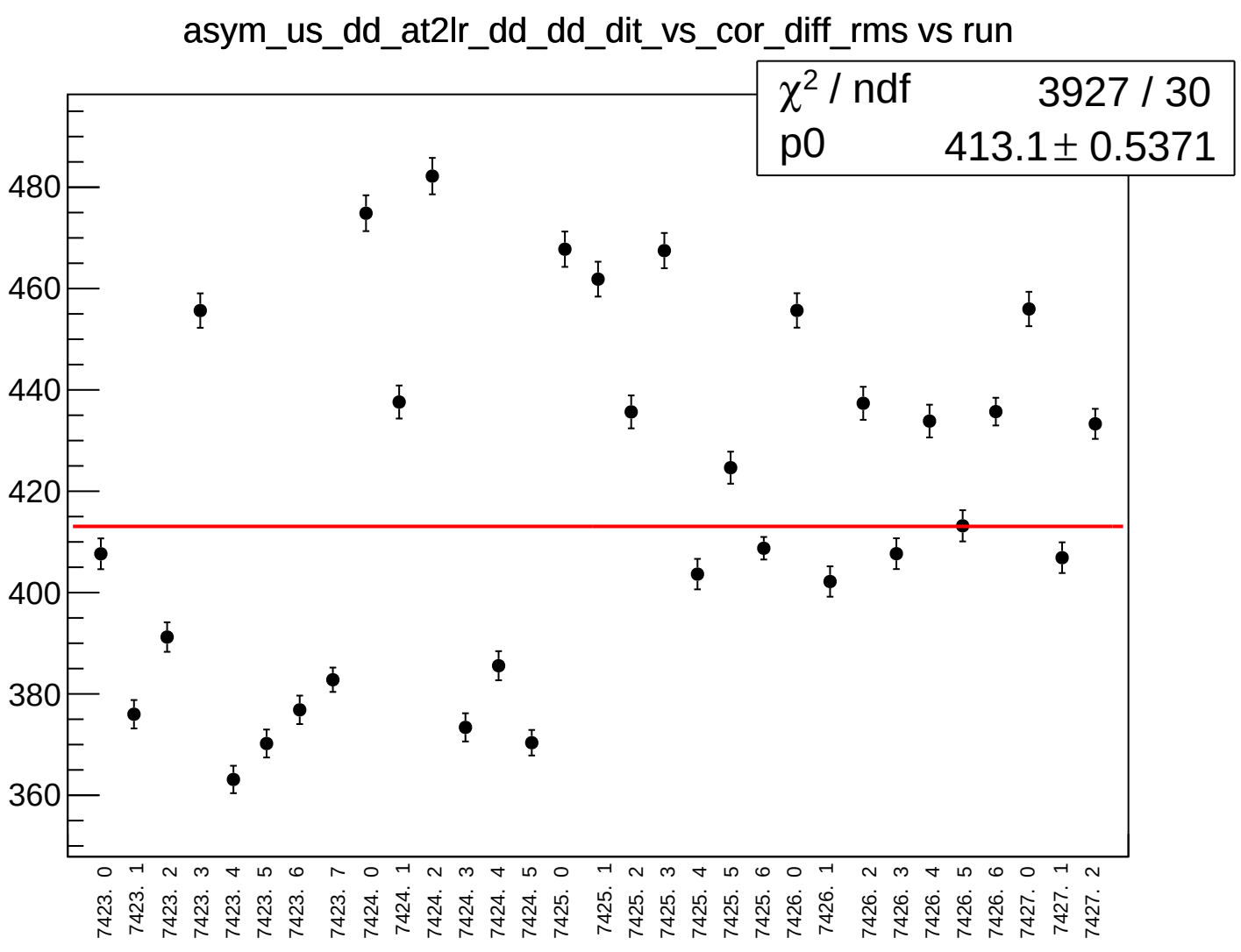

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 26.27 / 30
p0 3.473e−14 ± 2.401e−14
0.01
0
−0.01
−0.02
−0.03
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 0.2682
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

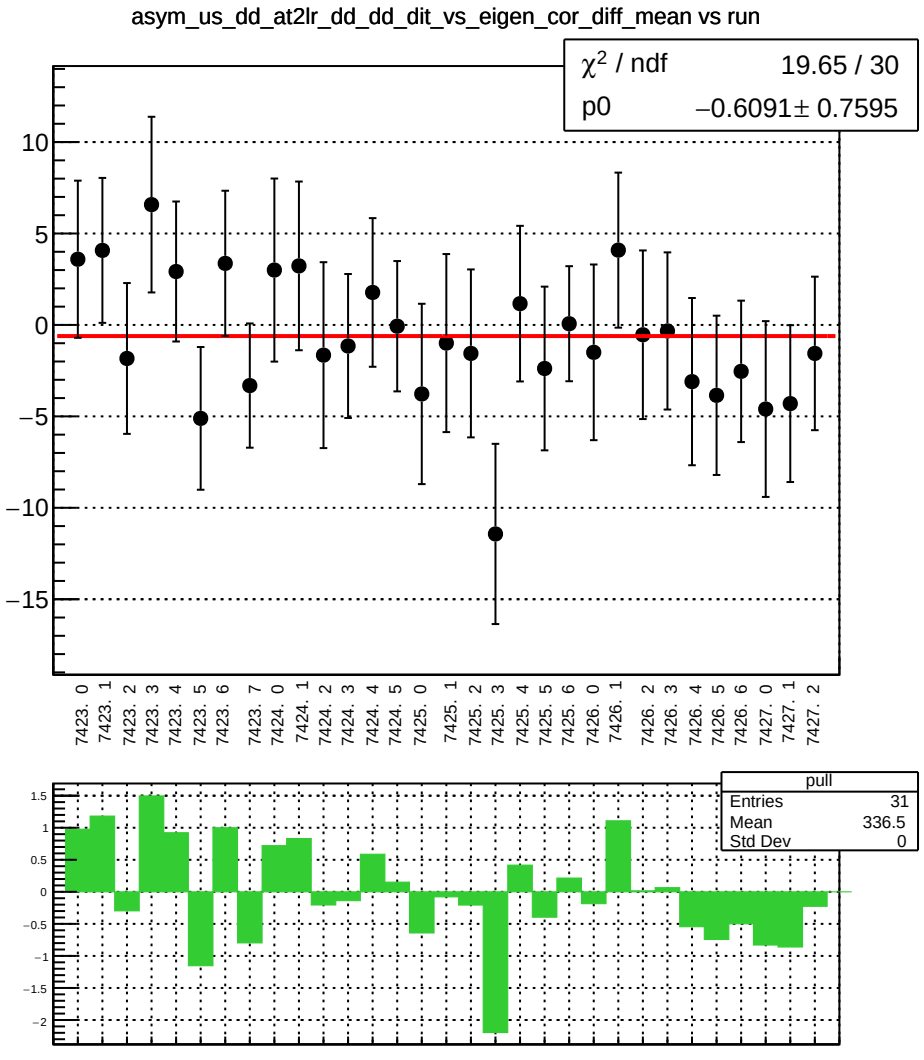

pull1D
Entries 31
Mean −0.1043
Std Dev 0.9146
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

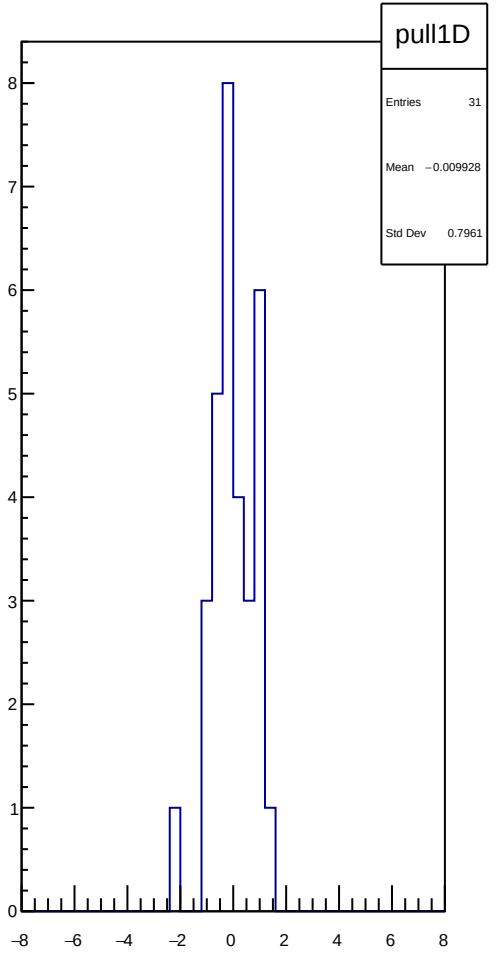

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.98e+05 / 30
p0 5.302e−12 ± 1.698e−14
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

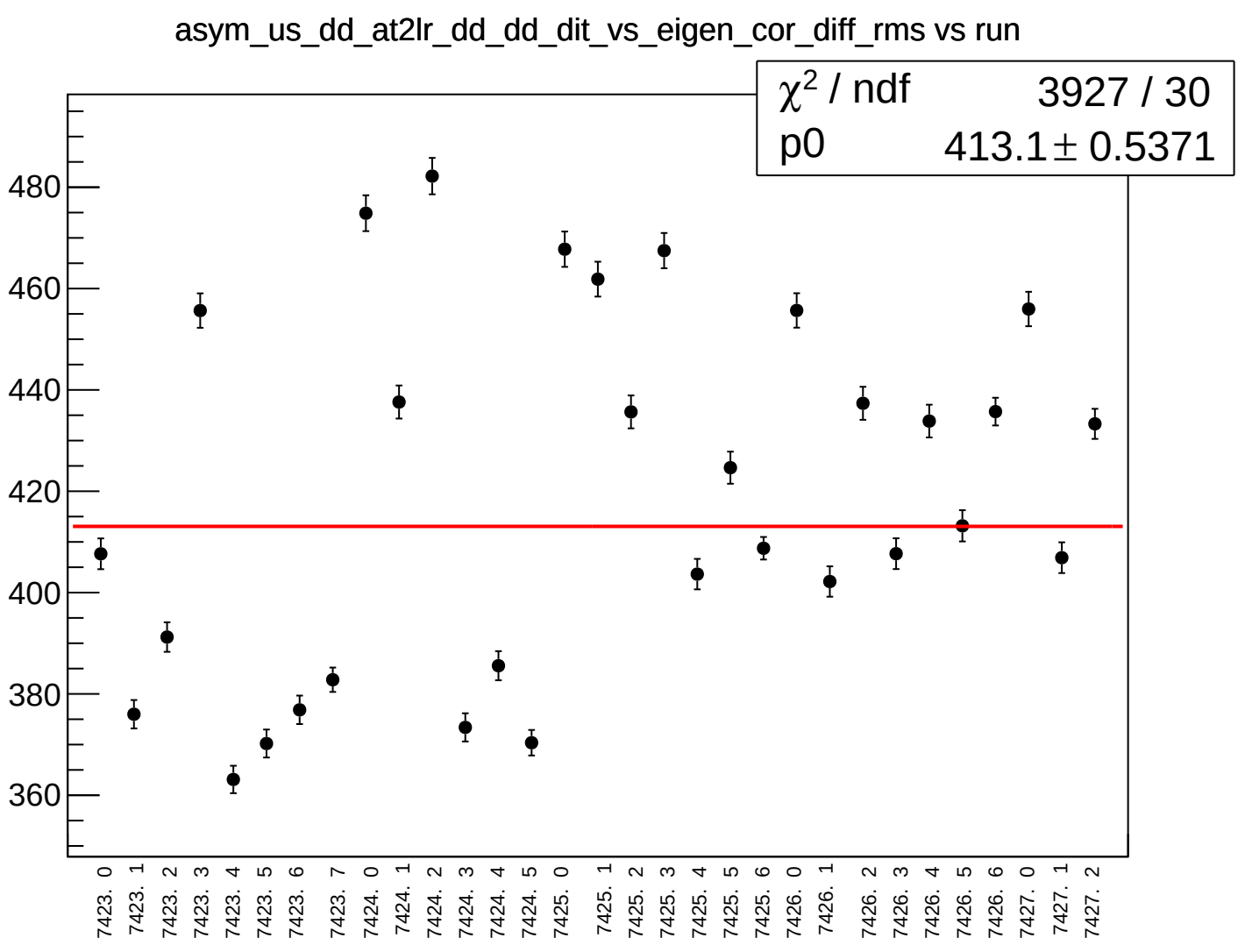

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 19.65 / 30
p0 −0.6091± 0.7595
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 336.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

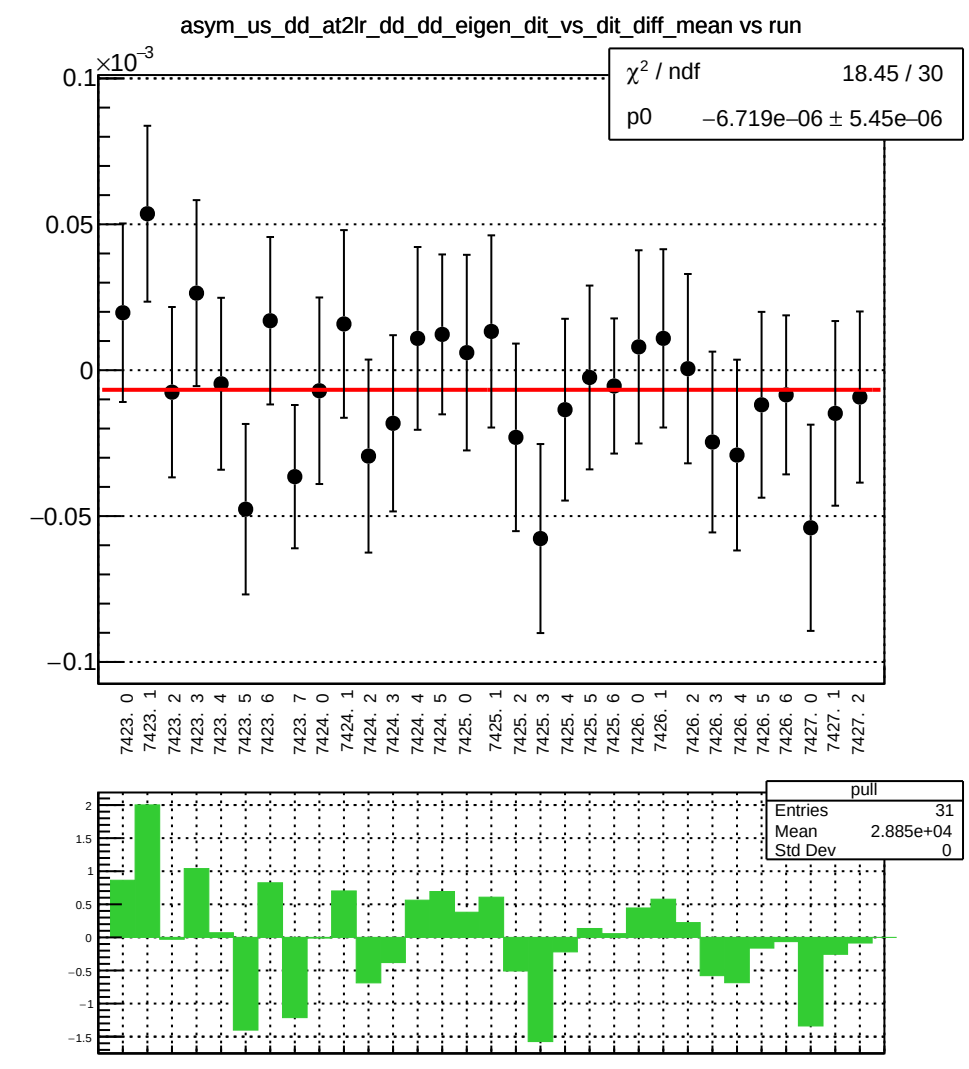

pull1D
Entries 31
Mean −0.009928
Std Dev 0.7961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

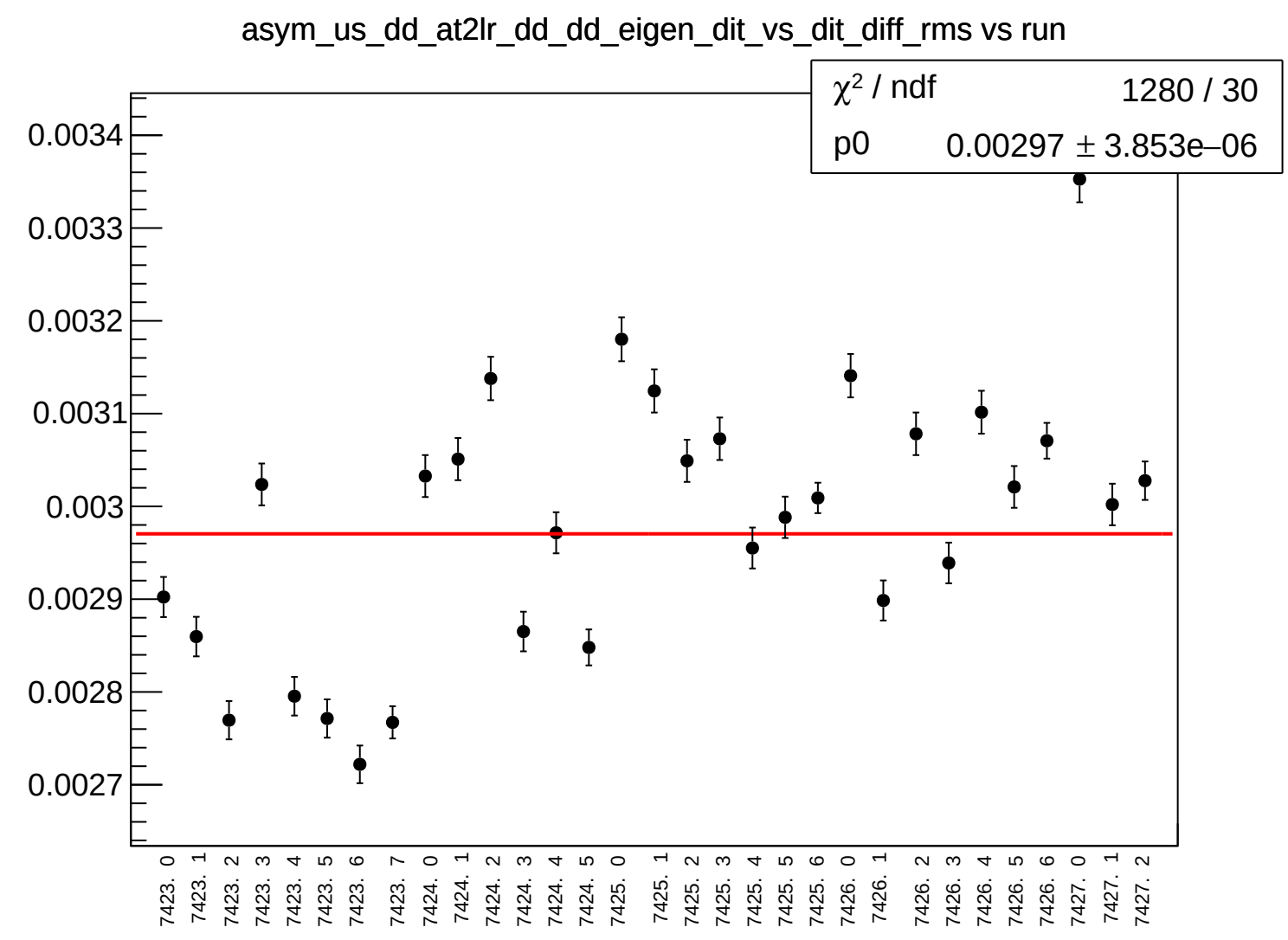

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3927 / 30
p0 413.1 ± 0.5371
480
460
440
420
400
380
360
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

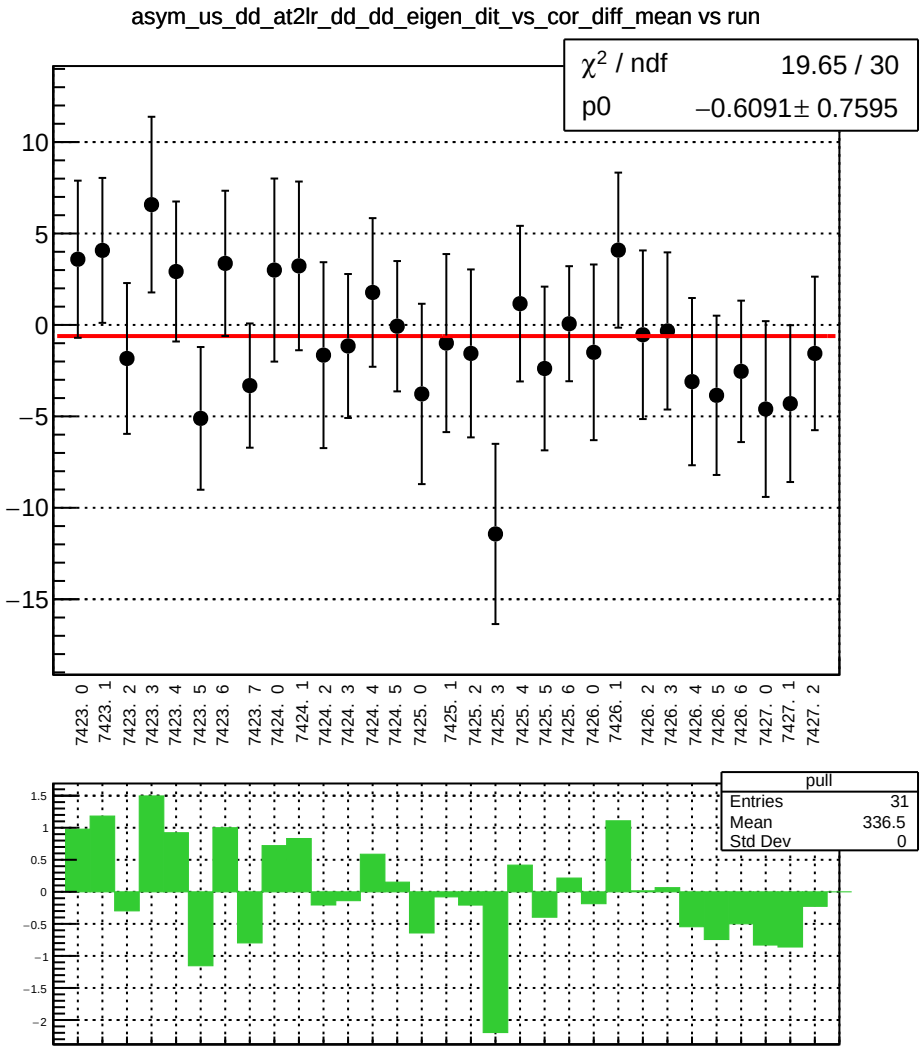

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.65 / 30
p0 −0.6091± 0.7595
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 336.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

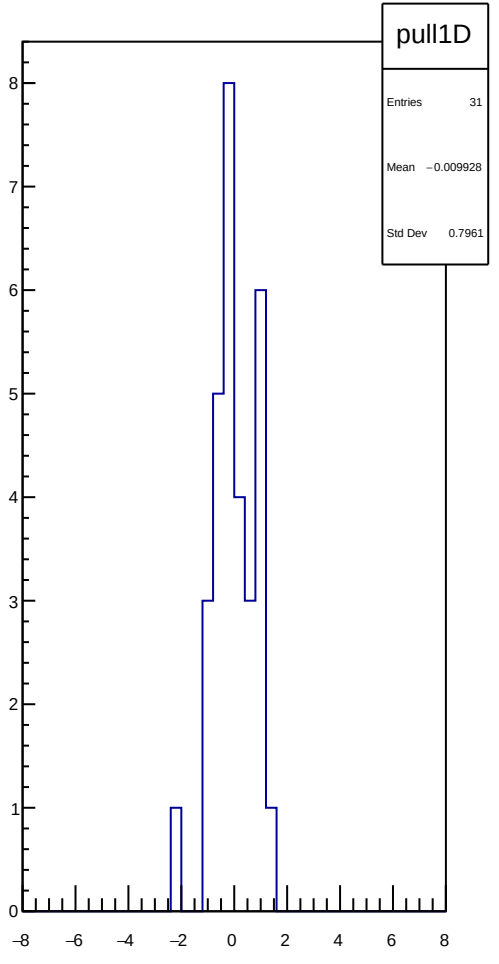

pull1D
Entries 31
Mean −0.009928
Std Dev 0.7961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

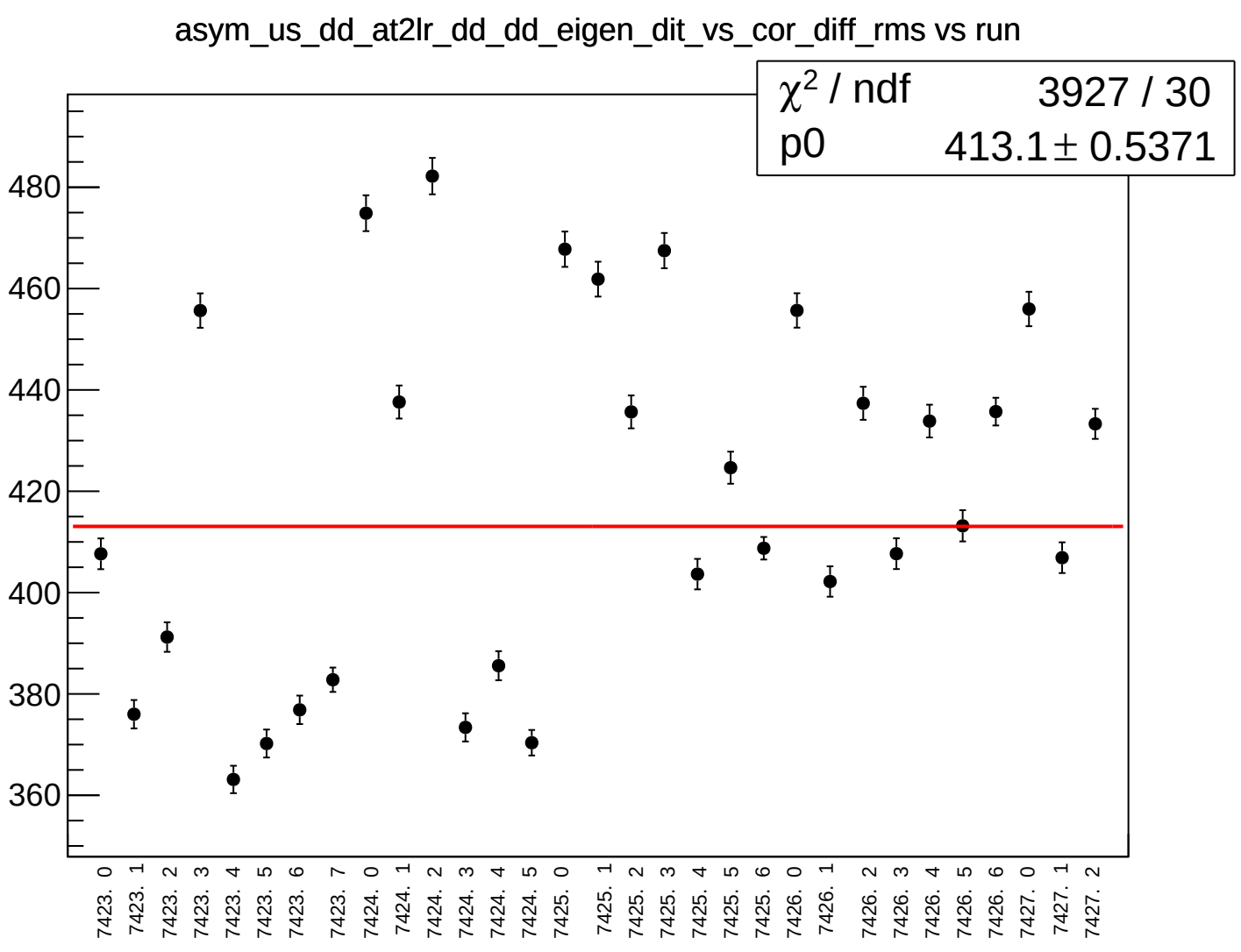

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3927 / 30
p0 413.1 ± 0.5371
480
460
440
420
400
380
360
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

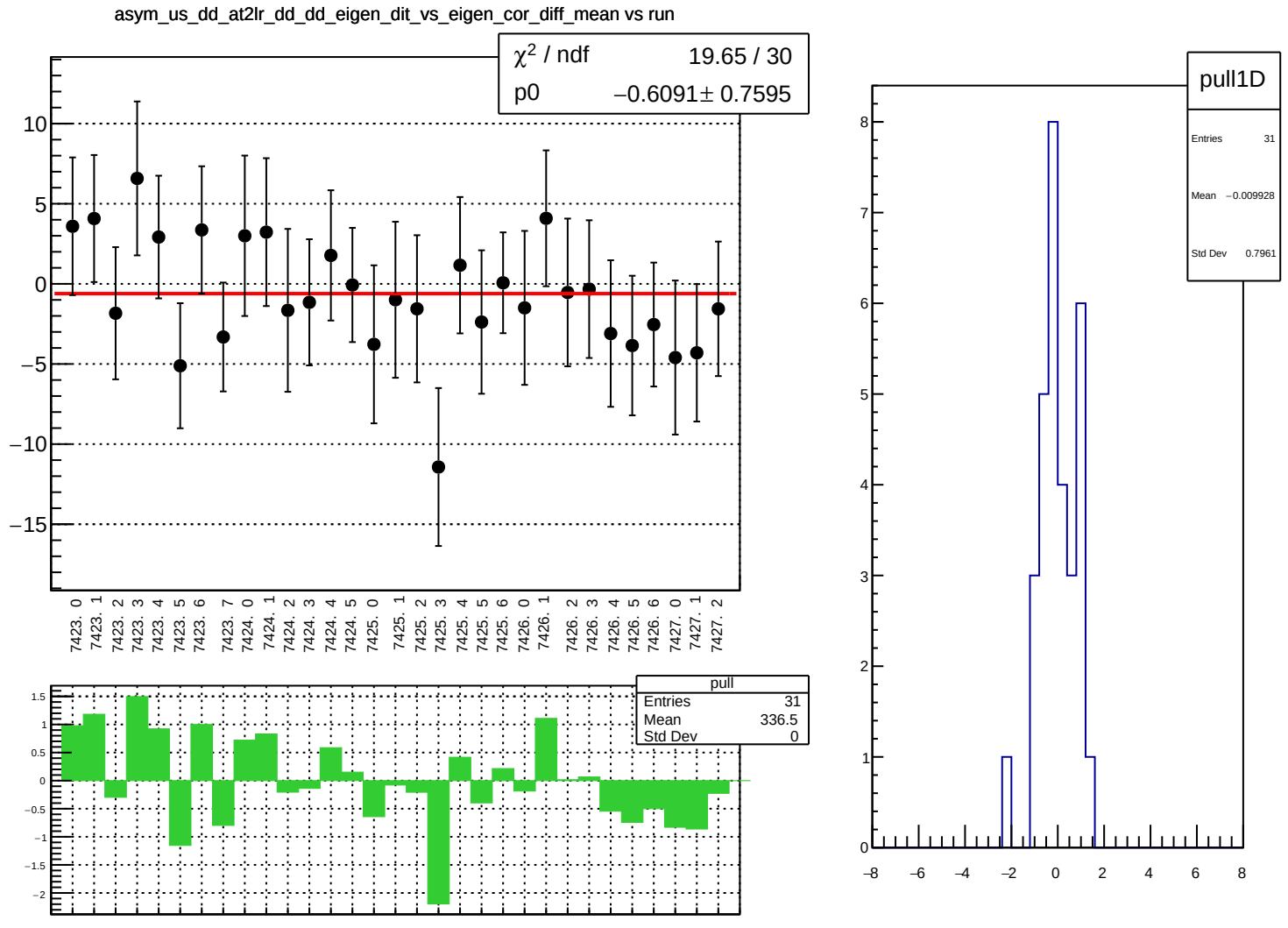

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.45 / 30
p0 −6.719e−06 ± 5.45e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 2.885e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −8.06e−05
Std Dev 0.7714
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

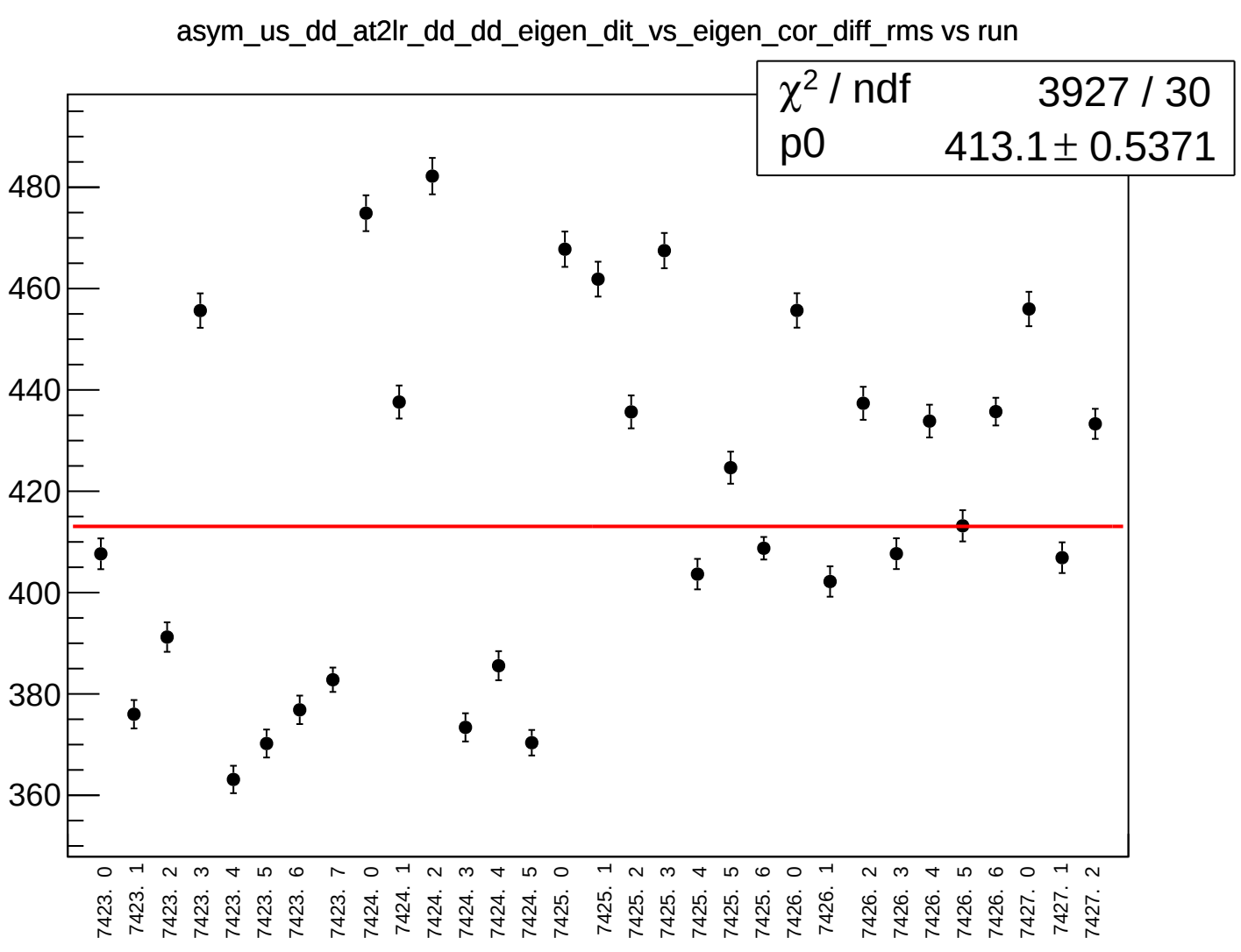

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1280 / 30
p0 0.00297 ± 3.853e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

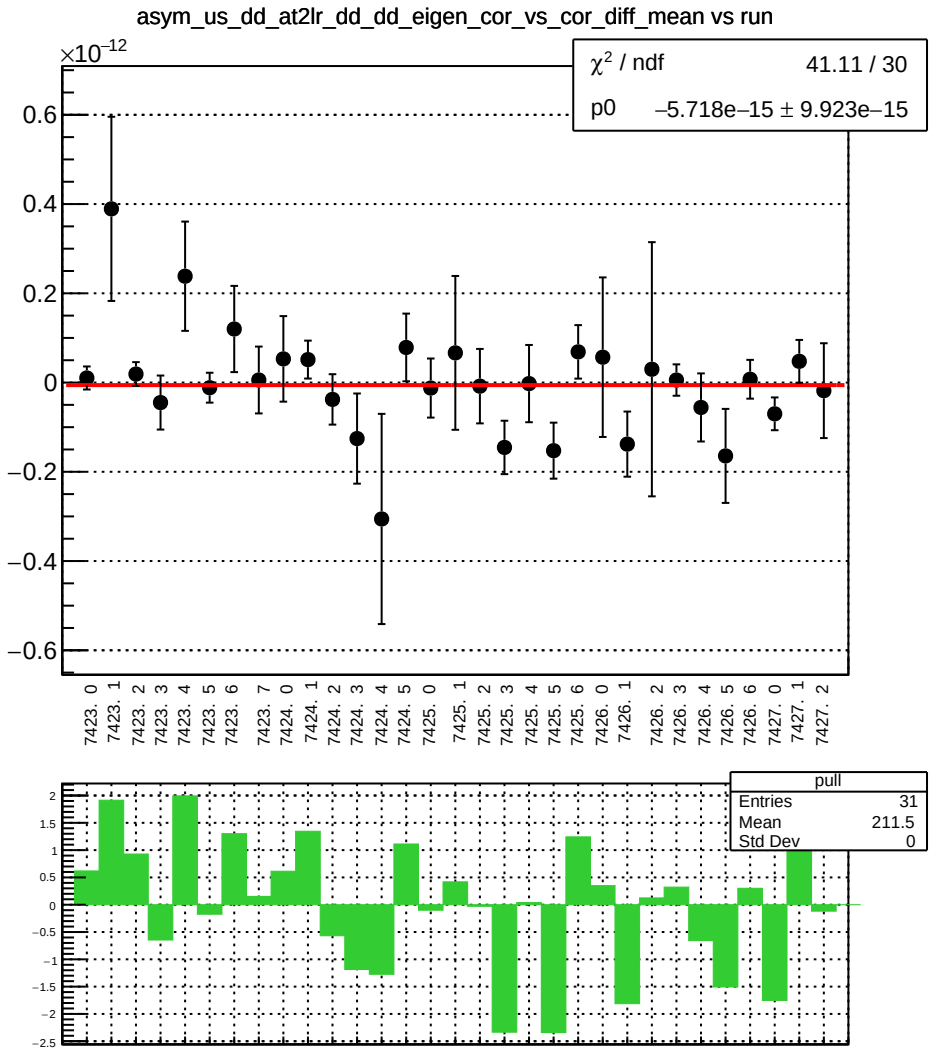

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.65 / 30
p0 −0.6091± 0.7595
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 336.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

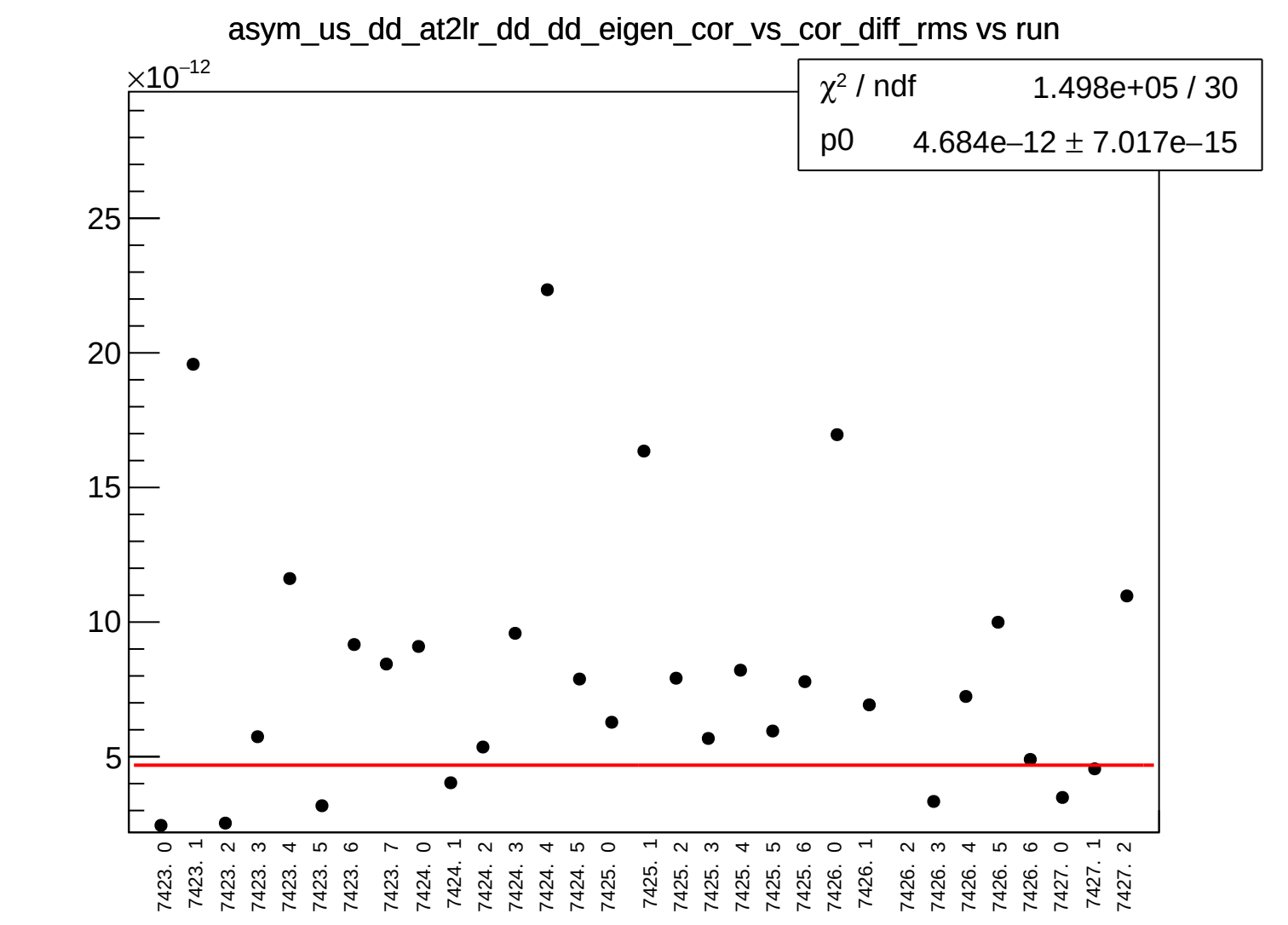

pull1D
Entries 31
Mean −0.009928
Std Dev 0.7961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

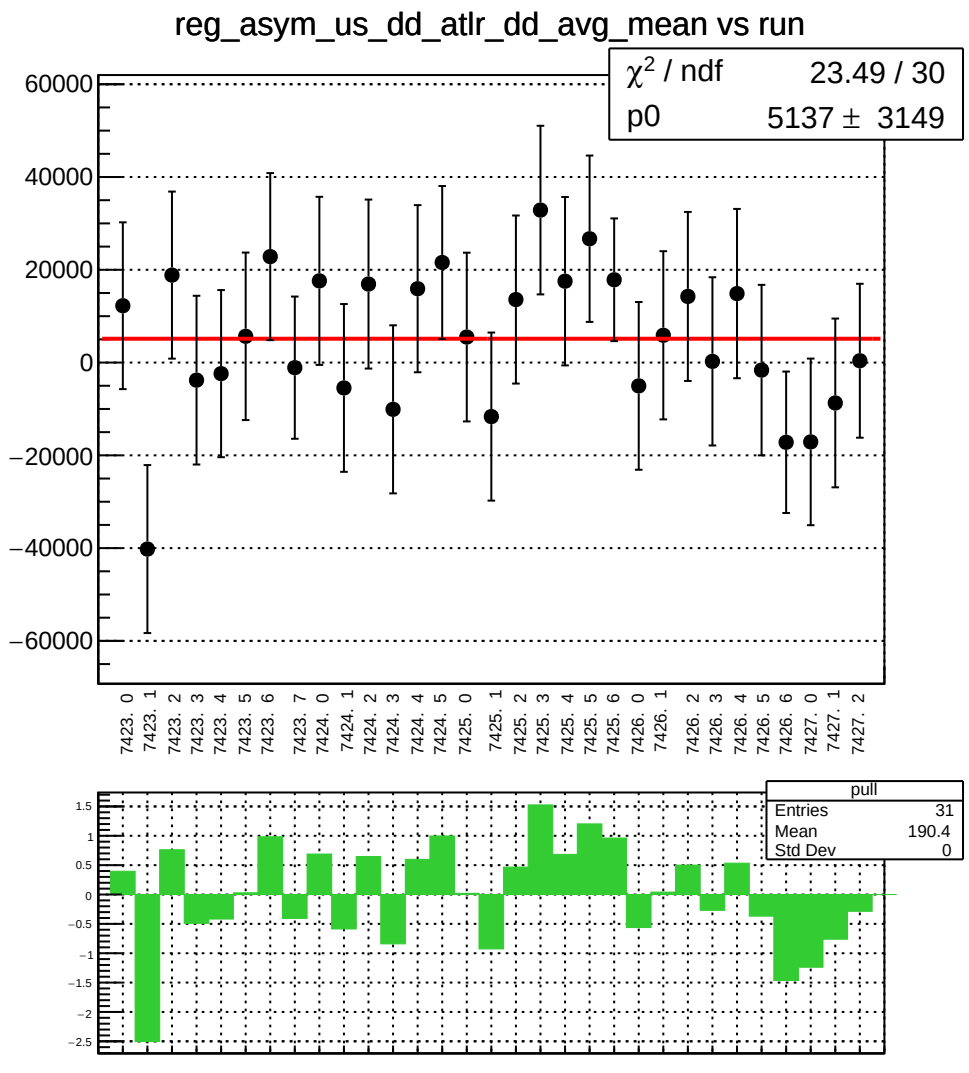

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3927 / 30
p0 413.1 ± 0.5371
480
460
440
420
400
380
360
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

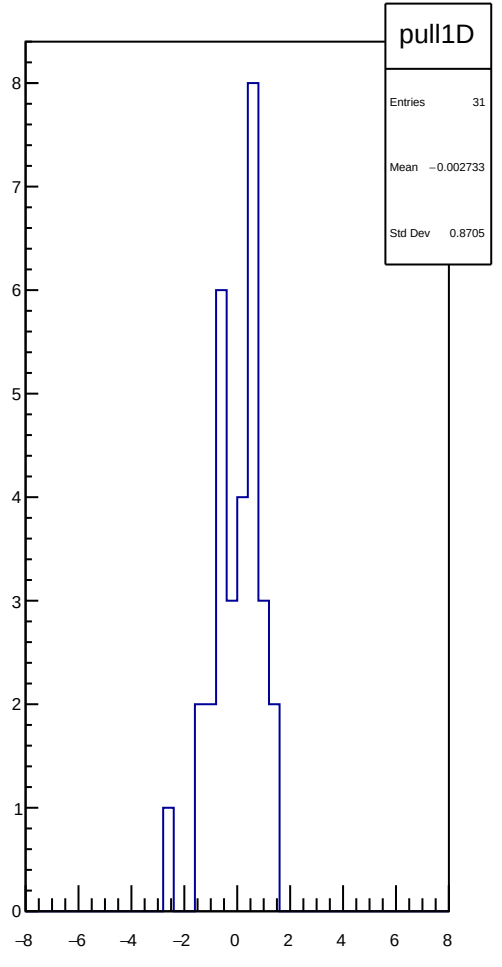

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.65 / 30
p0 −0.6091± 0.7595
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 336.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.009928
Std Dev 0.7961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

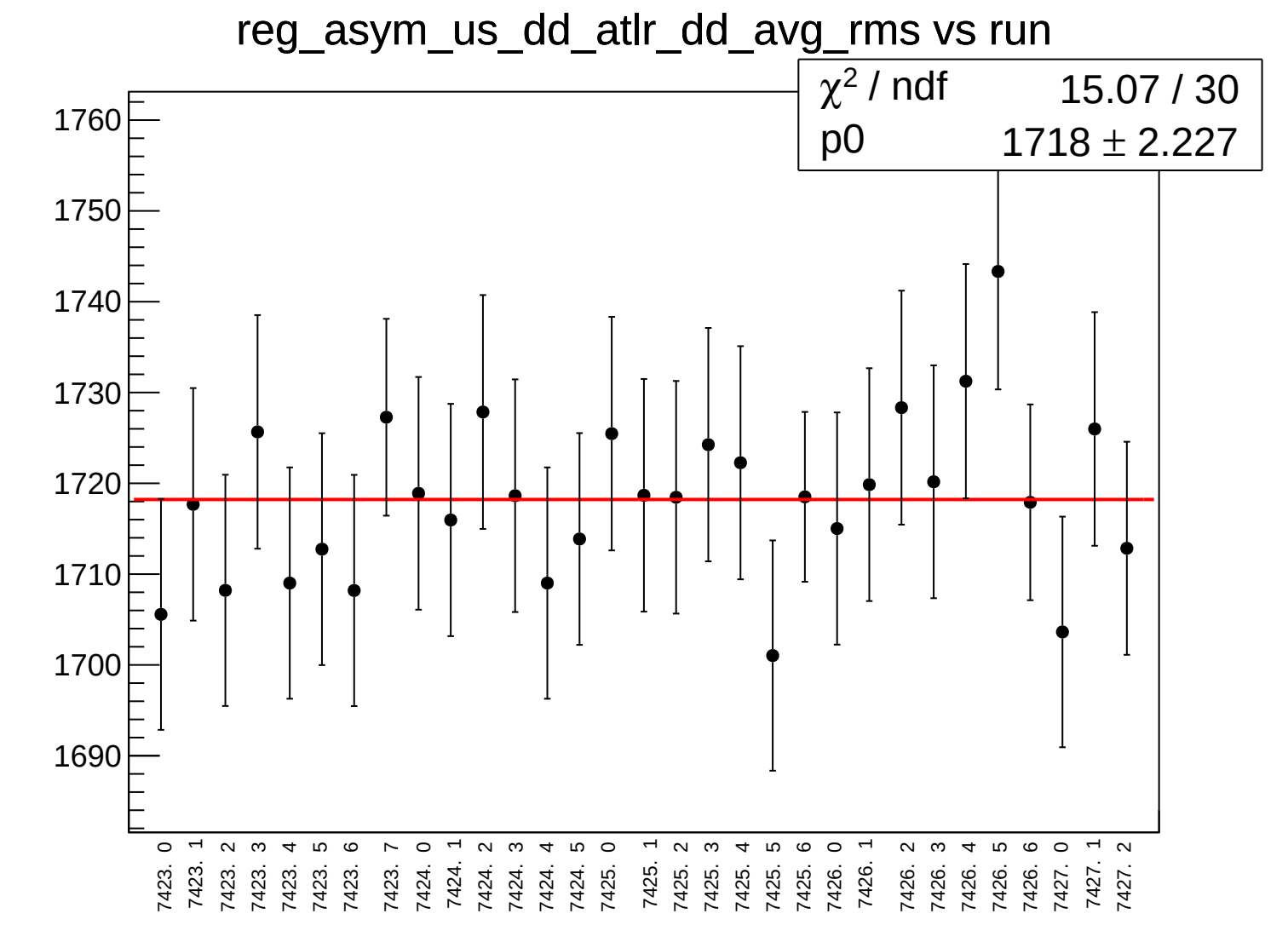

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3927 / 30
p0 413.1 ± 0.5371
480
460
440
420
400
380
360
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

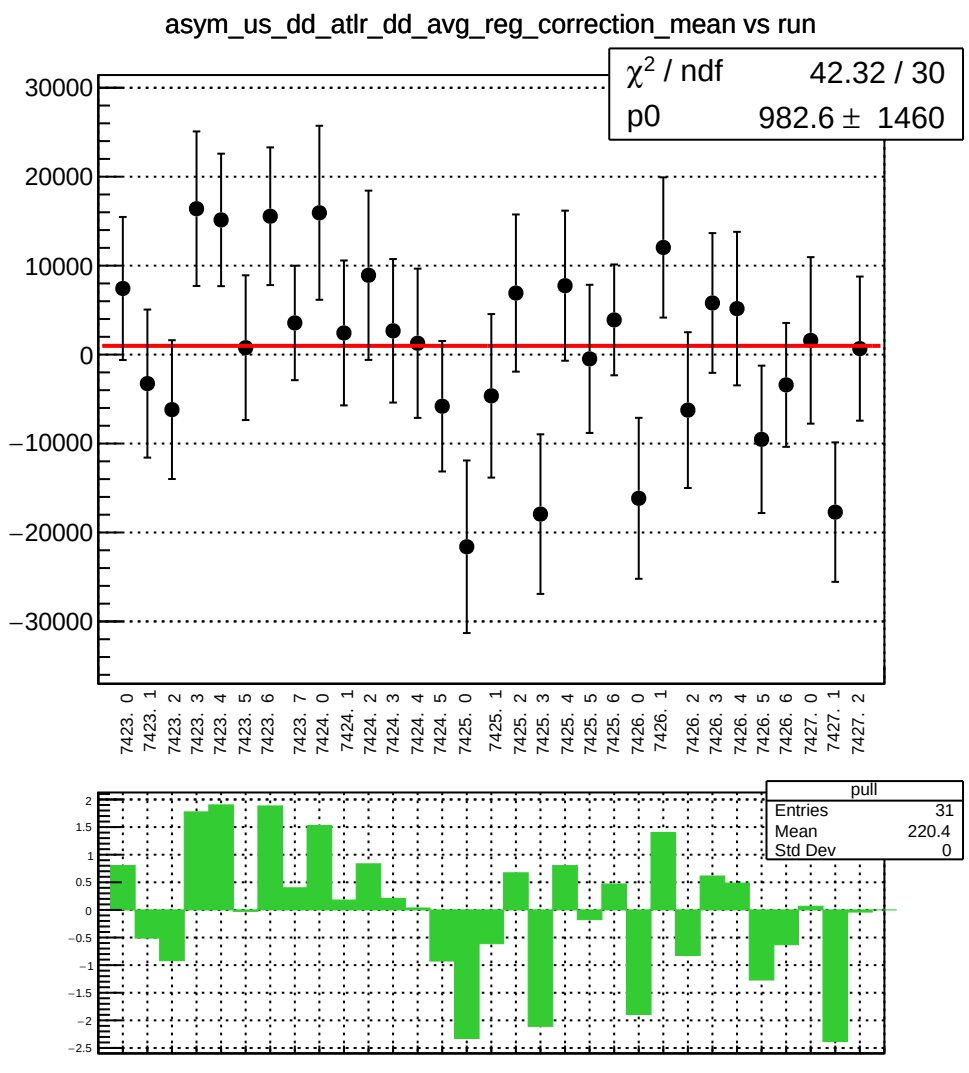

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.11 / 30
p0 −5.718e−15 ± 9.923e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 211.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01967
Std Dev 1.151
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

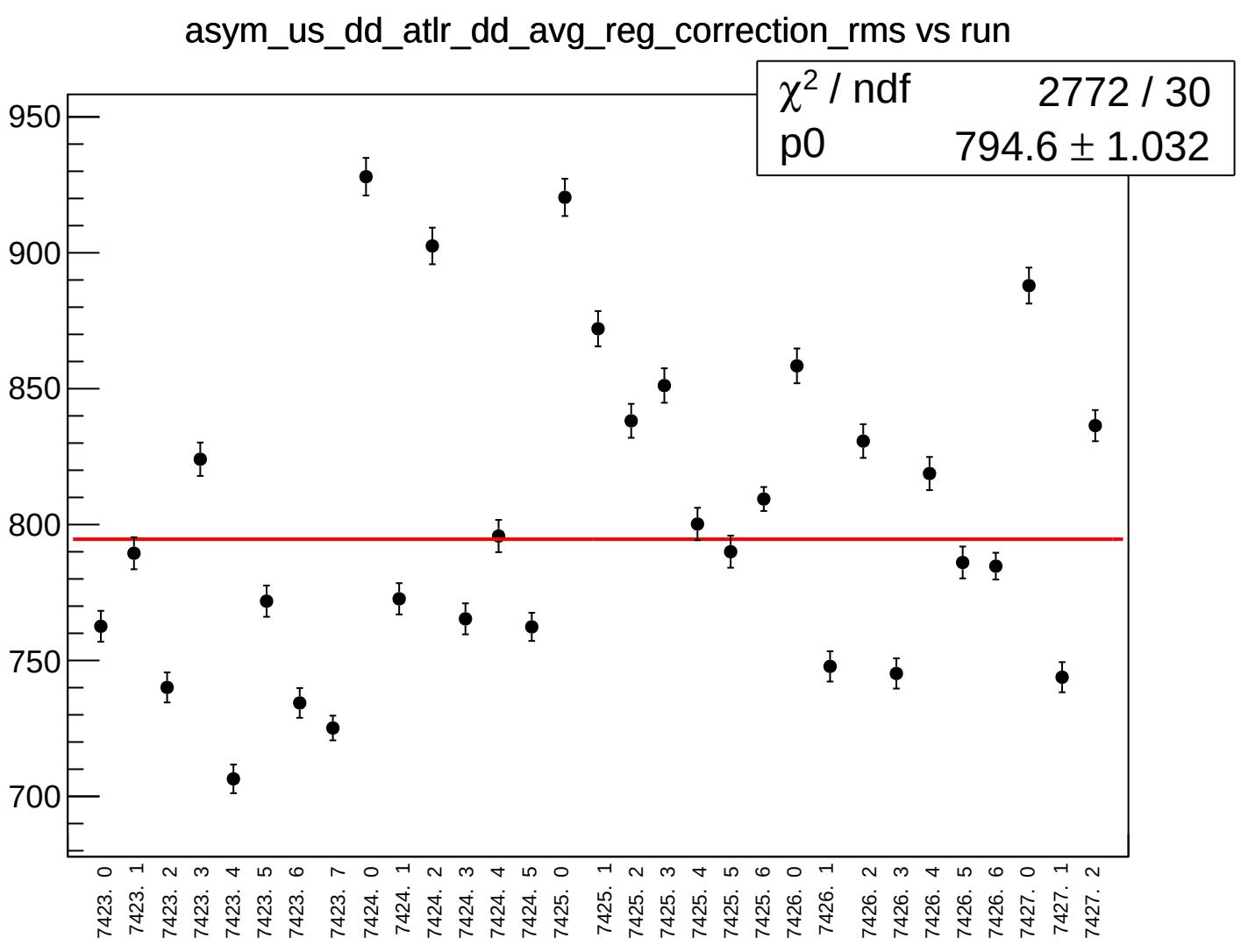

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.498e+05 / 30
p0 4.684e−12 ± 7.017e−15
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

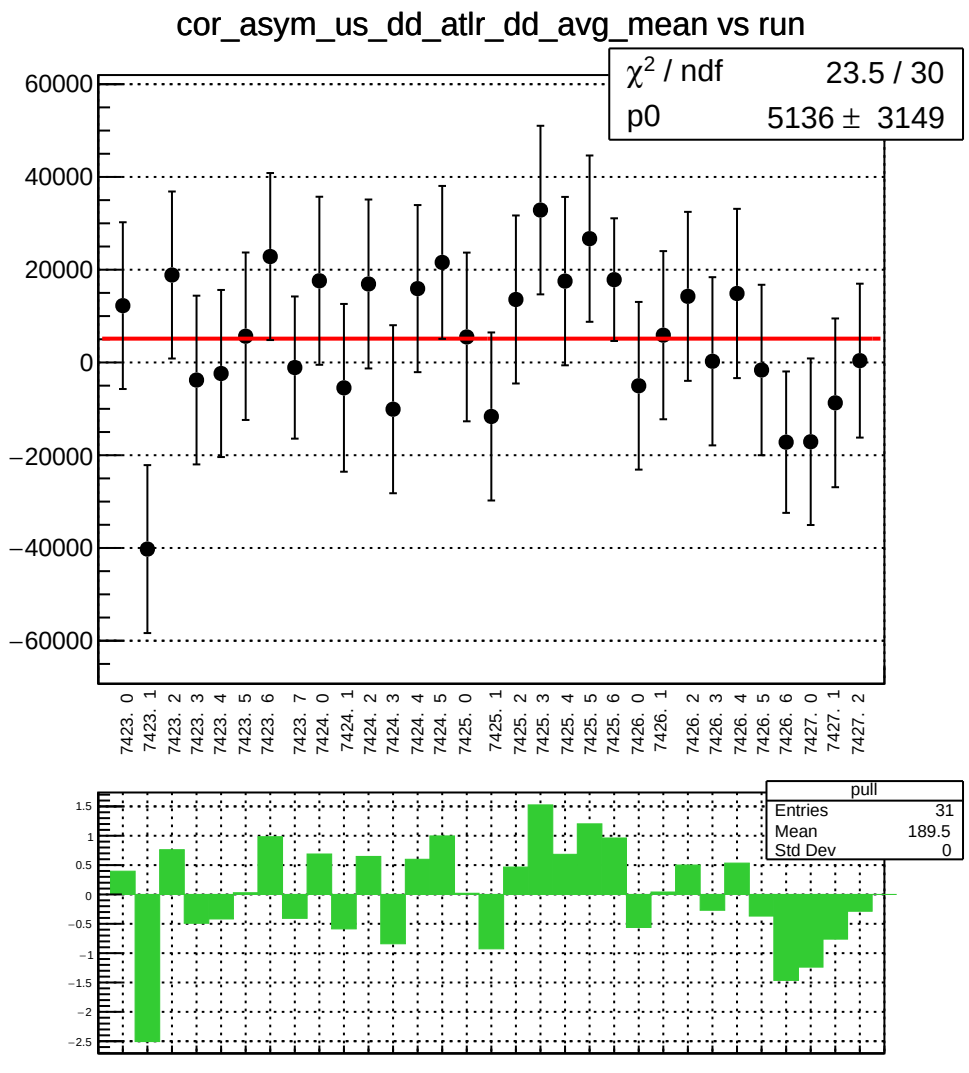

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 23.49 / 30
p0 5137 ± 3149
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 190.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

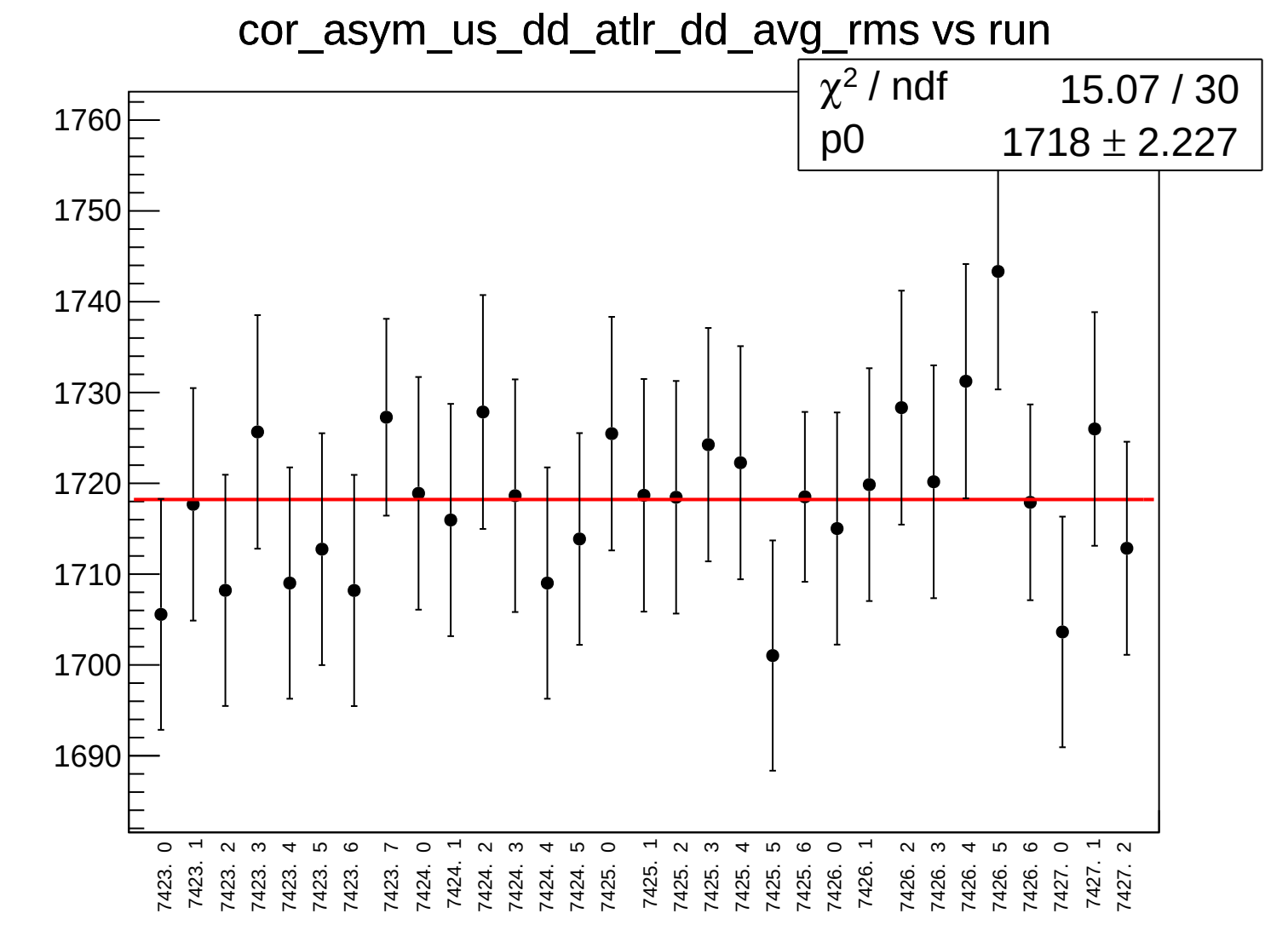

pull1D
Entries 31
Mean −0.002733
Std Dev 0.8705
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

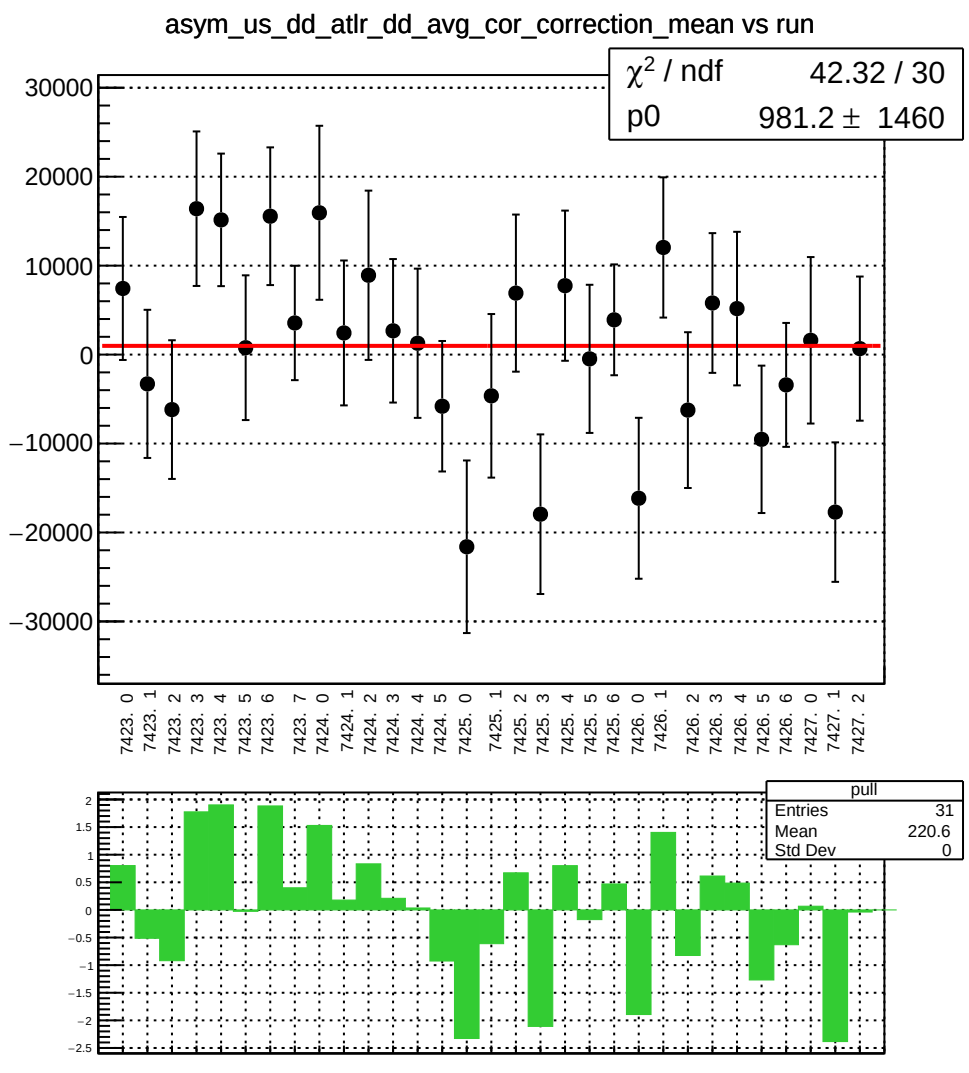

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 15.07 / 30
p0 1718 ± 2.227
1760
1750
1740
1730
1720
1710
1700
1690
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

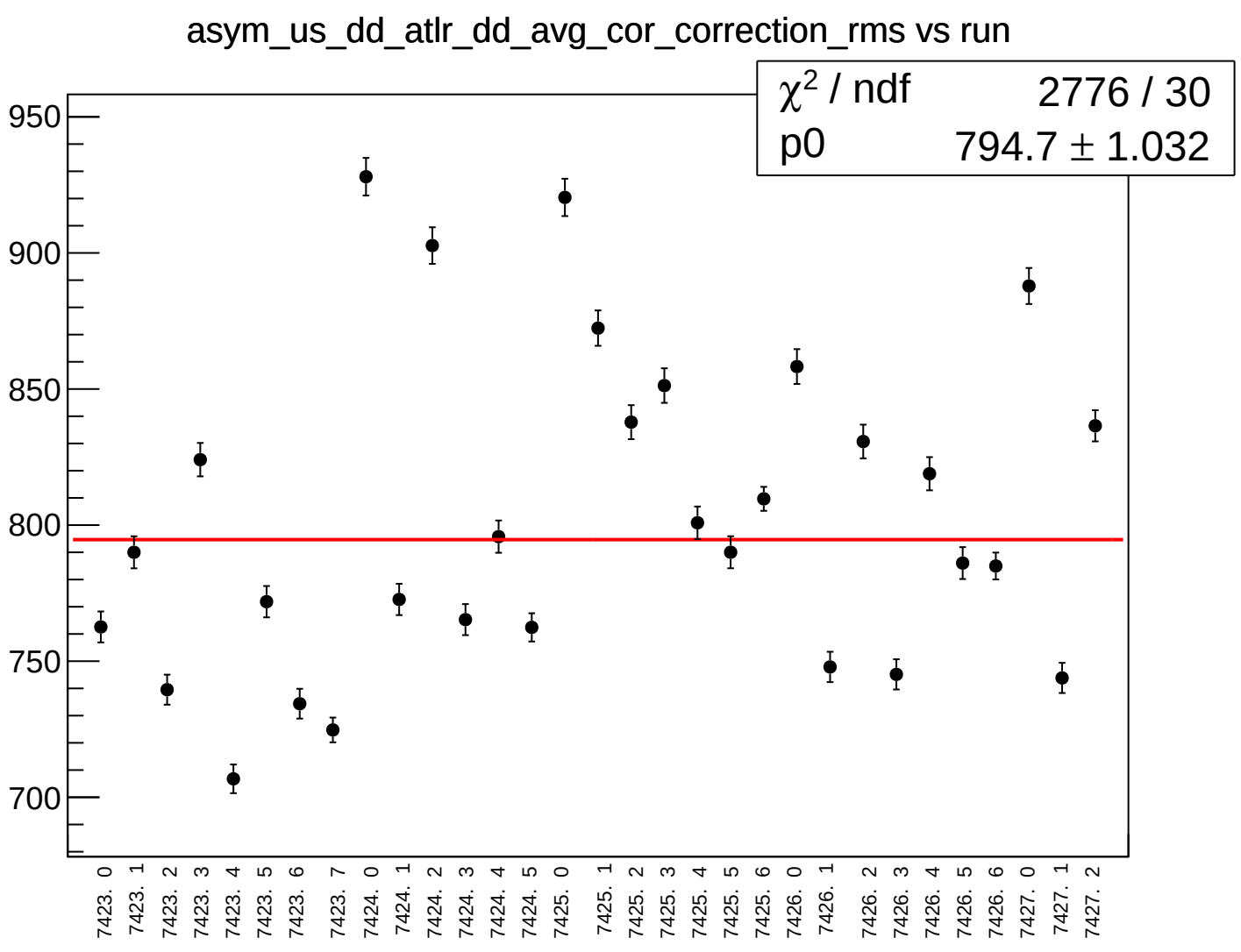

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 42.32 / 30
p0 982.6 ± 1460
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 220.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01883
Std Dev 1.168
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

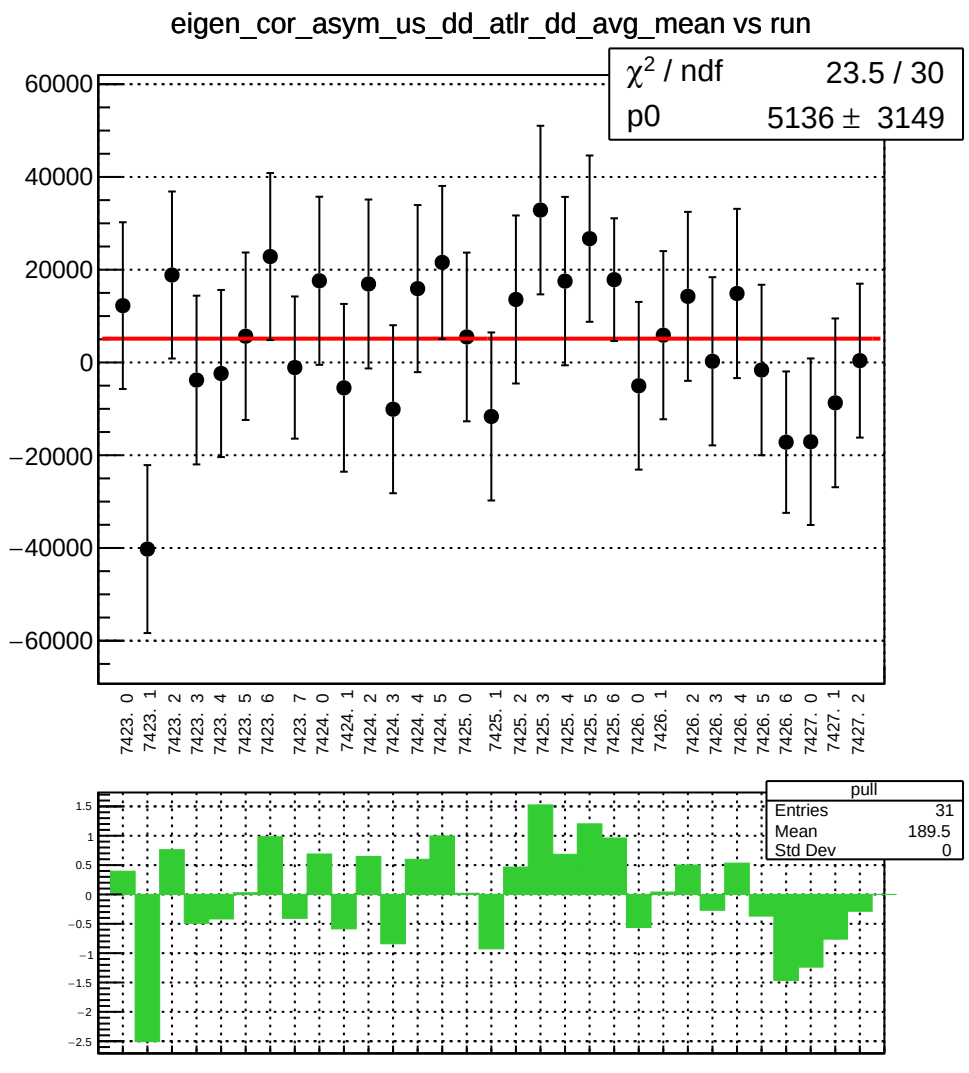

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 2772 / 30
p0 794.6 ± 1.032
950
900
850
800
750
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

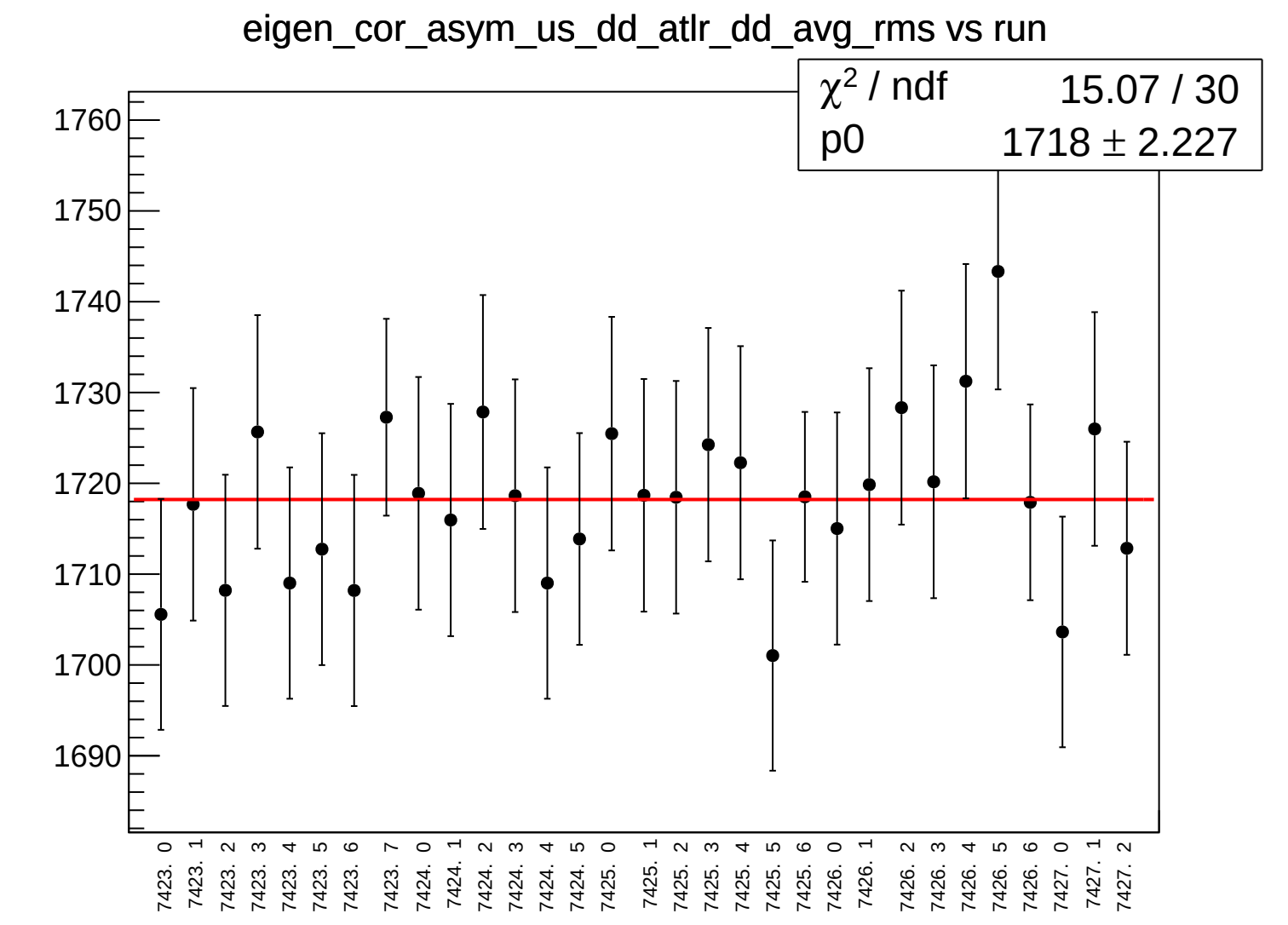

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 23.5 / 30
p0 5136 ± 3149
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 189.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.00274
Std Dev 0.8706
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

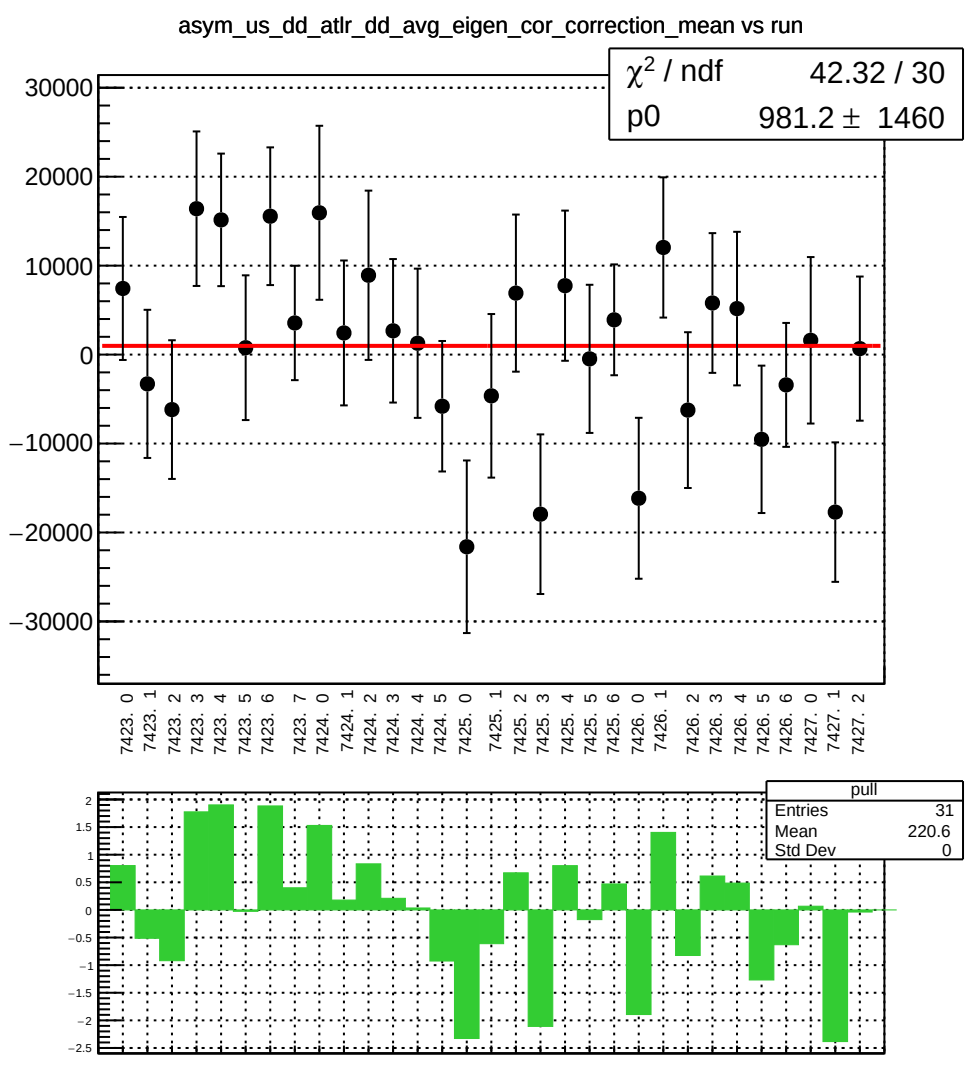

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 15.07 / 30
p0 1718 ± 2.227
1760
1750
1740
1730
1720
1710
1700
1690
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

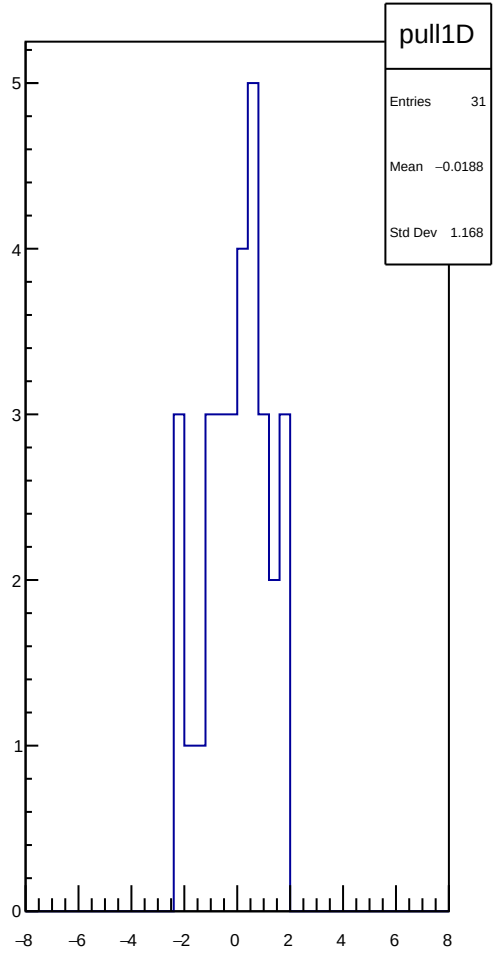

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 42.32 / 30
p0 981.2 ± 1460
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 220.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.0188
Std Dev 1.168
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

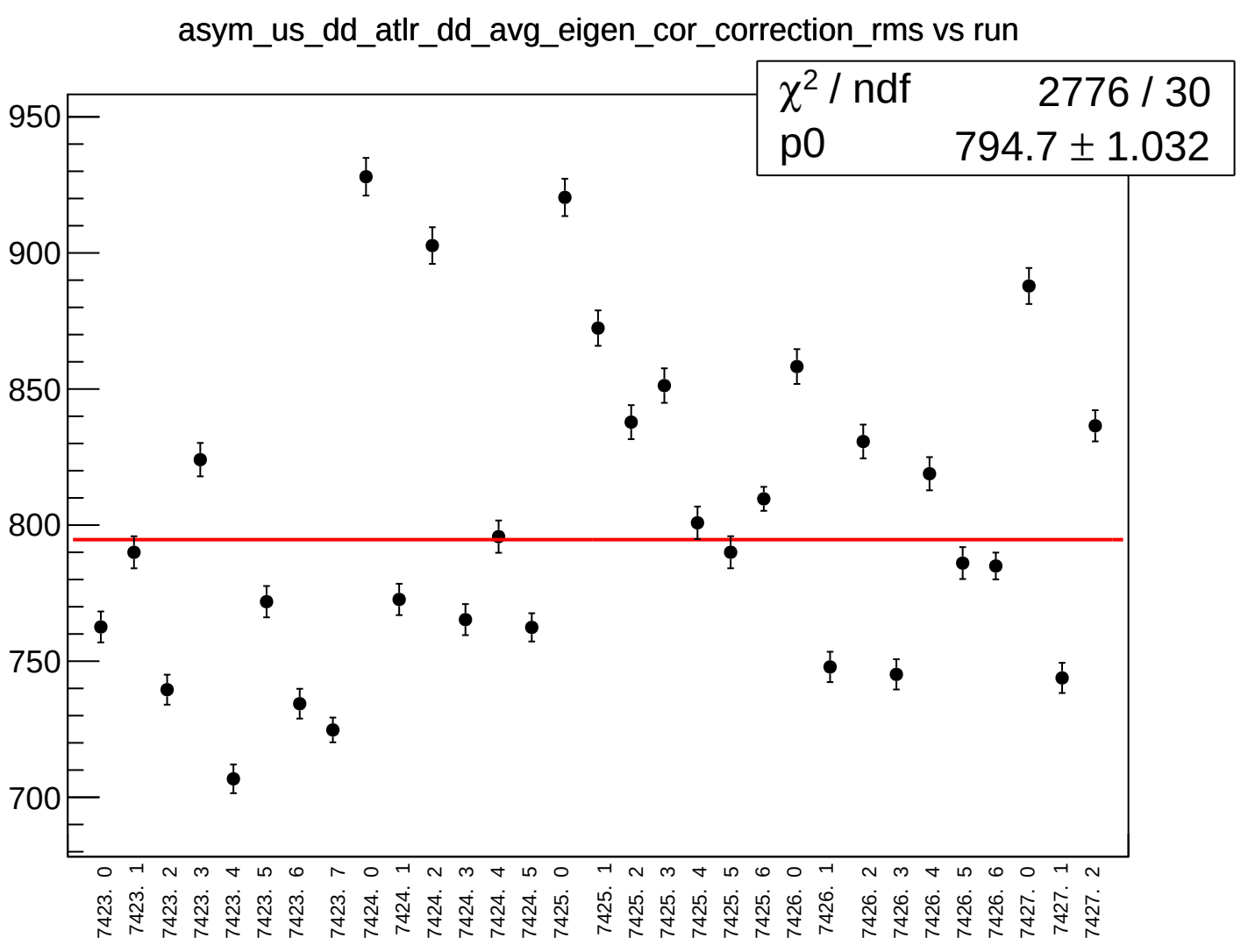

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 2776 / 30
p0 794.7 ± 1.032
950
900
850
800
750
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

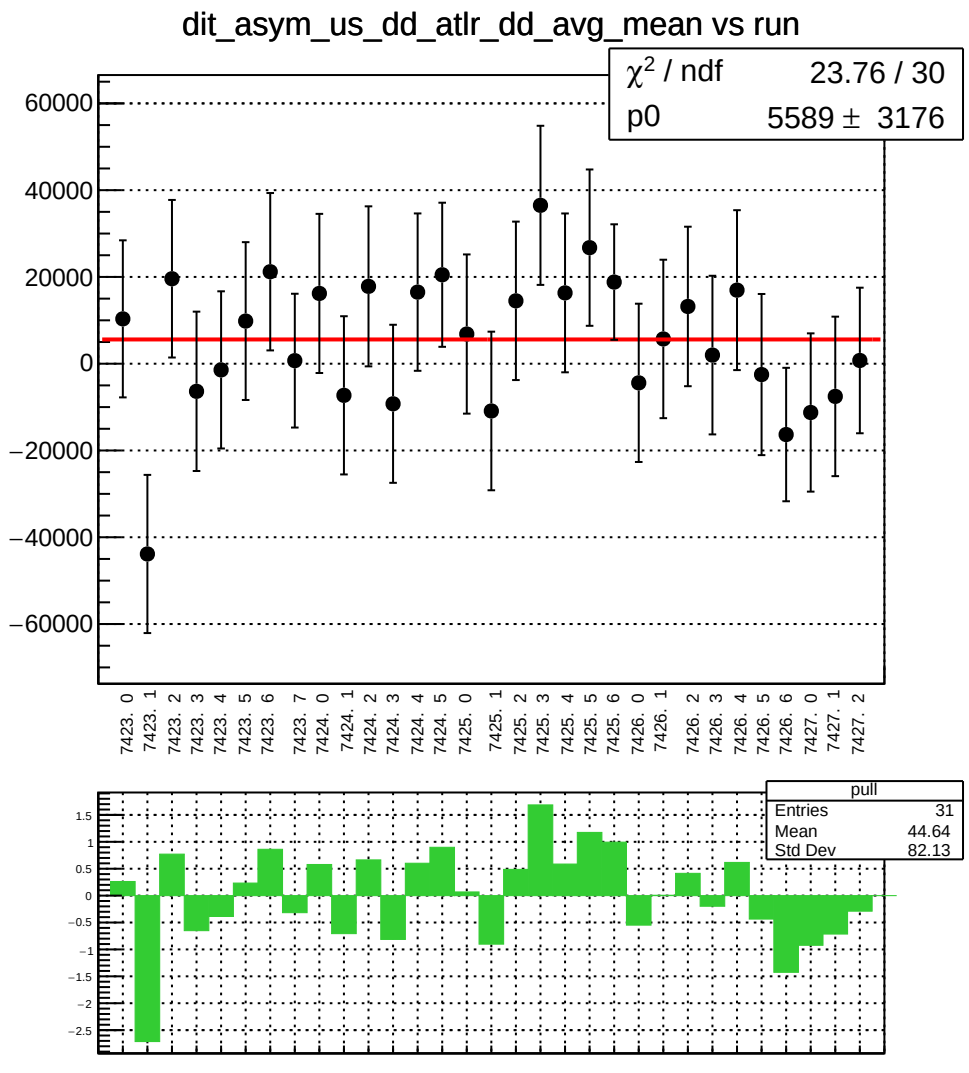

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 23.5 / 30
p0 5136 ± 3149
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 189.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.00274
Std Dev 0.8706
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

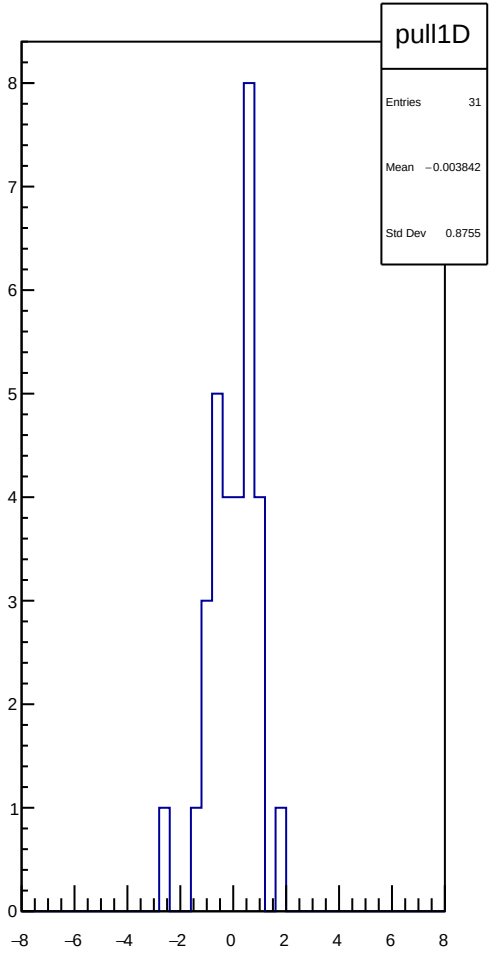

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 15.07 / 30
p0 1718 ± 2.227
1760
1750
1740
1730
1720
1710
1700
1690
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

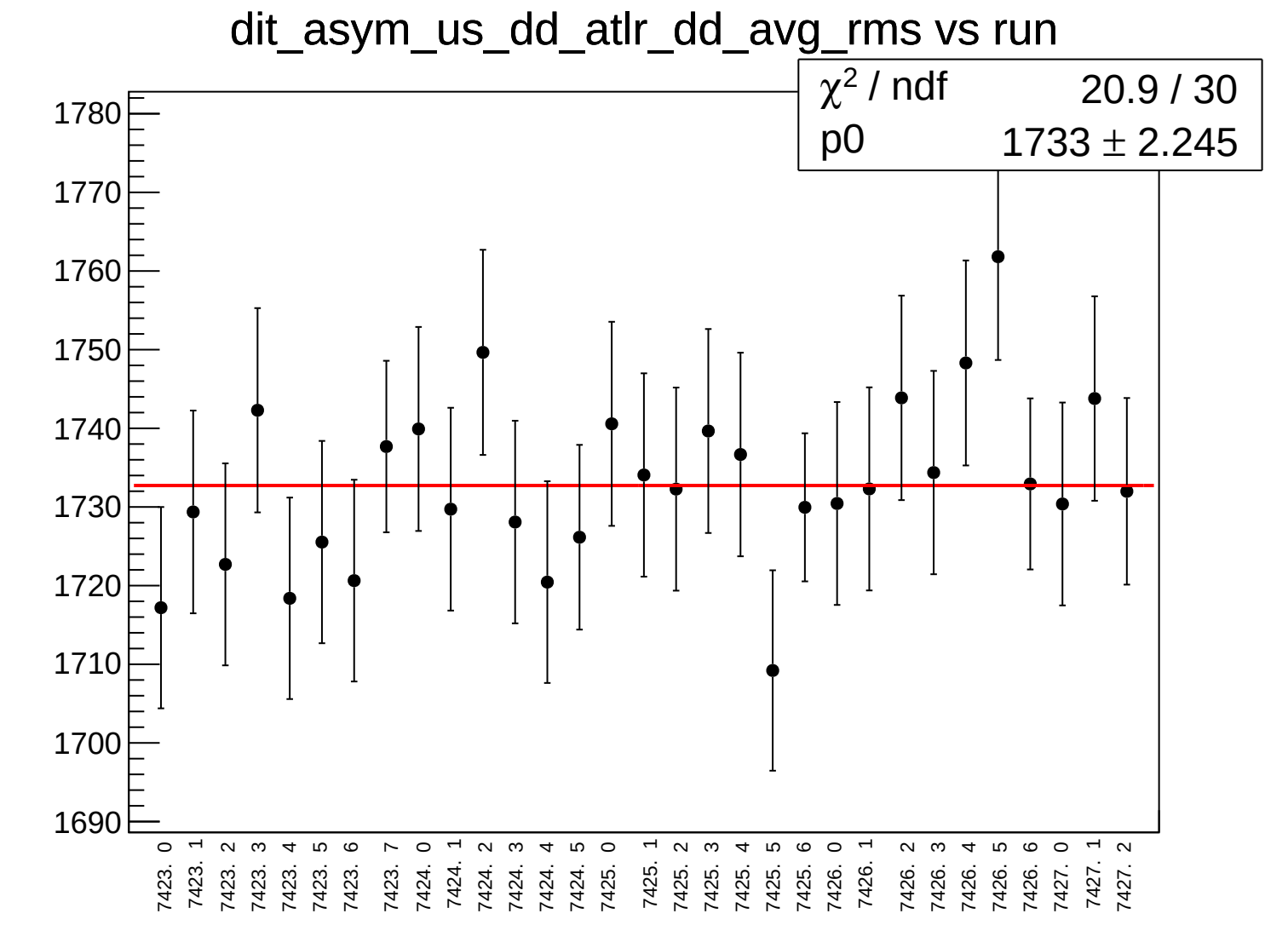

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 42.32 / 30
p0 981.2 ± 1460
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 220.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

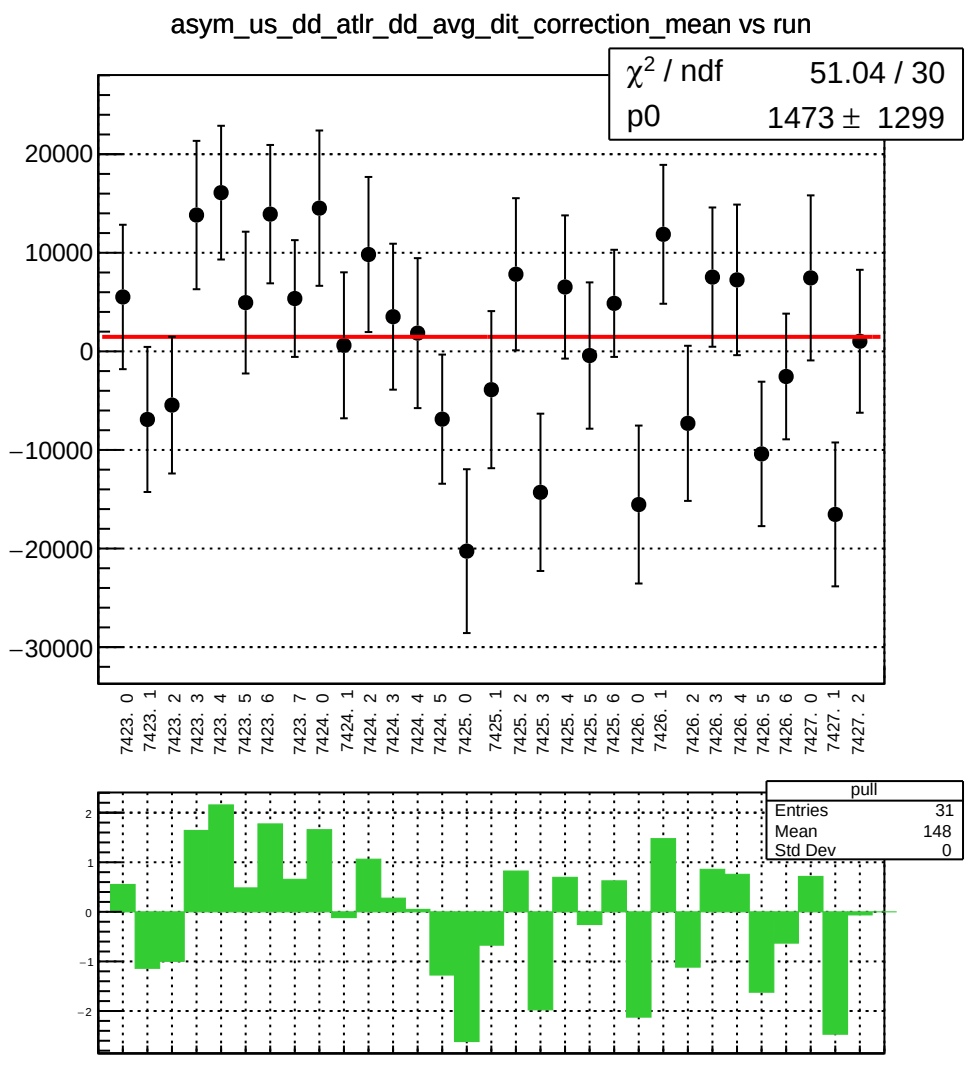

pull1D
Entries 31
Mean −0.0188
Std Dev 1.168
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

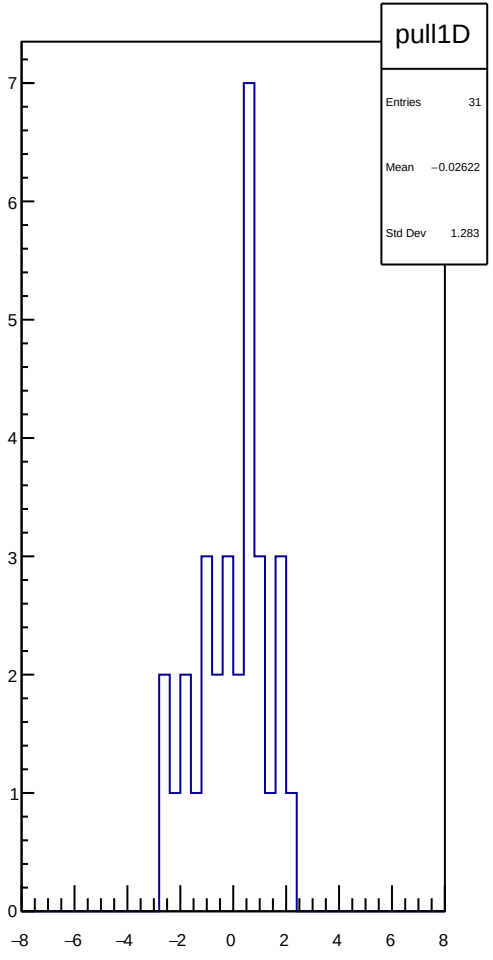

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2776 / 30
p0 794.7 ± 1.032
950
900
850
800
750
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

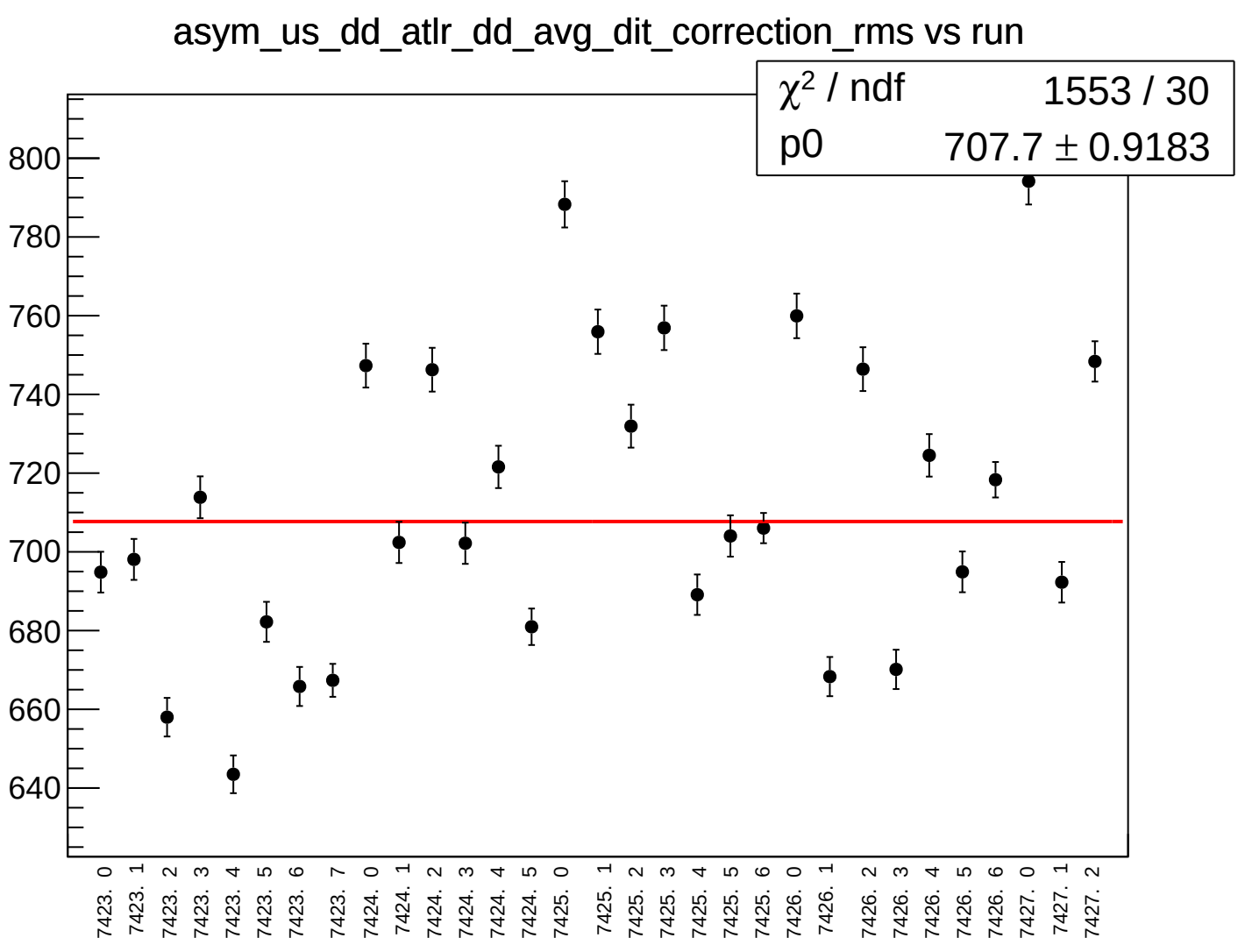

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 23.76 / 30
p0 5589 ± 3176
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 44.64
Std Dev 82.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

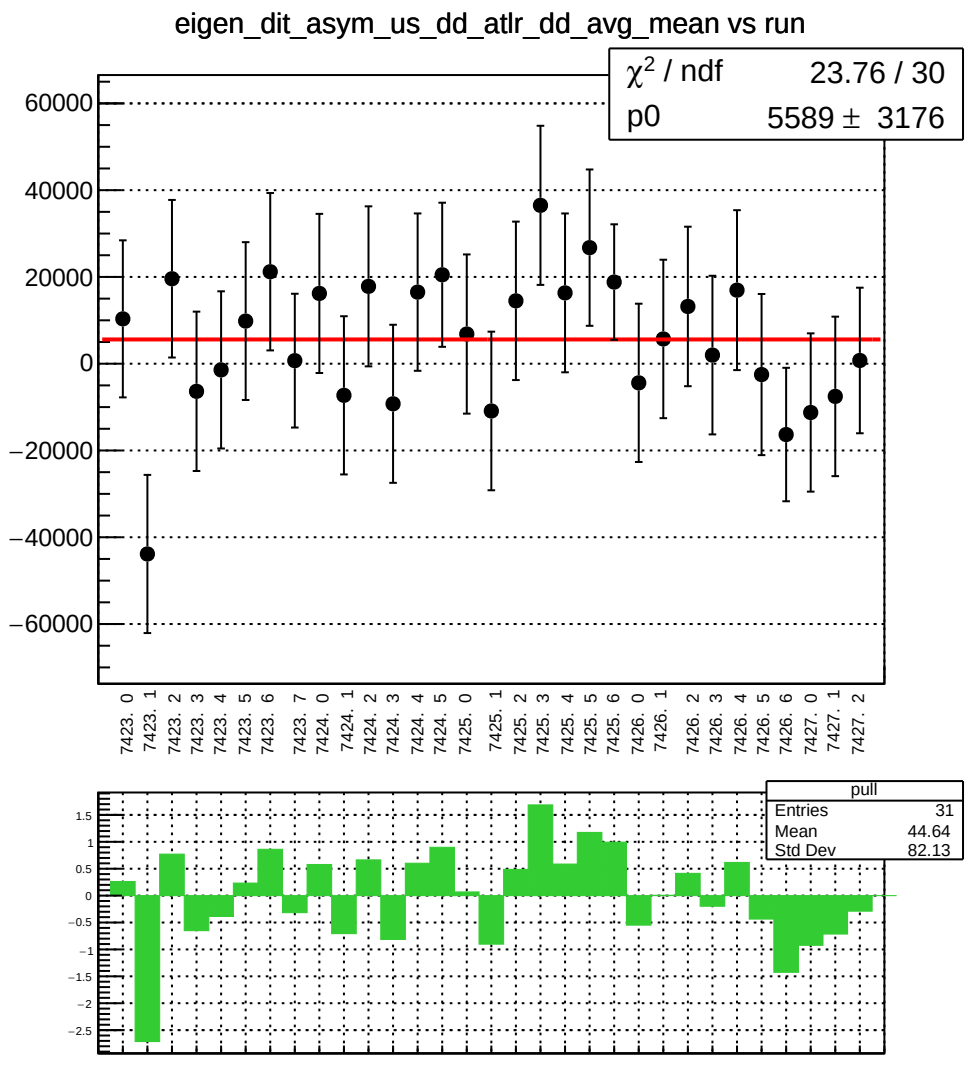

pull1D
Entries 31
Mean −0.003842
Std Dev 0.8755
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

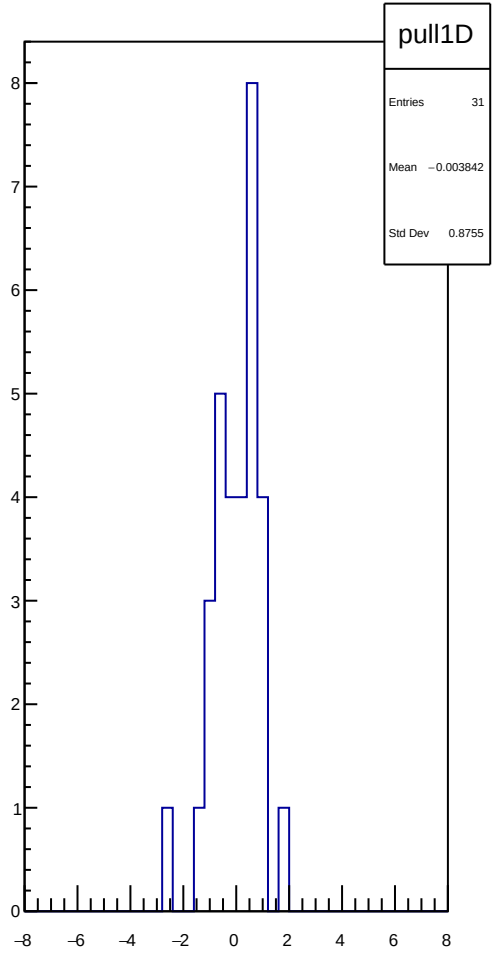

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 20.9 / 30
p0 1733 ± 2.245
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

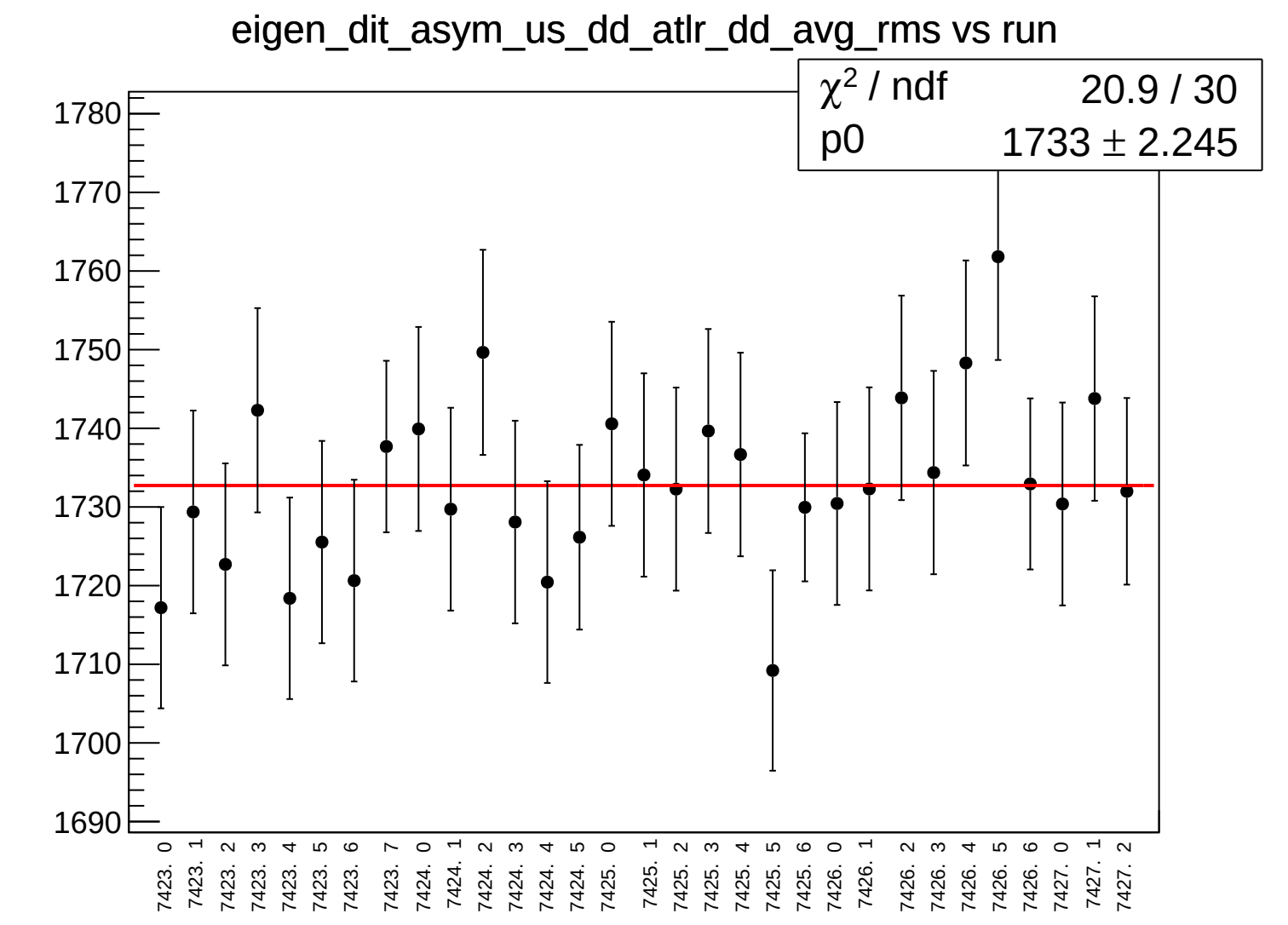

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 51.04 / 30
p0 1473 ± 1299
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 148
Std Dev 0
2
1
0
−1
−2

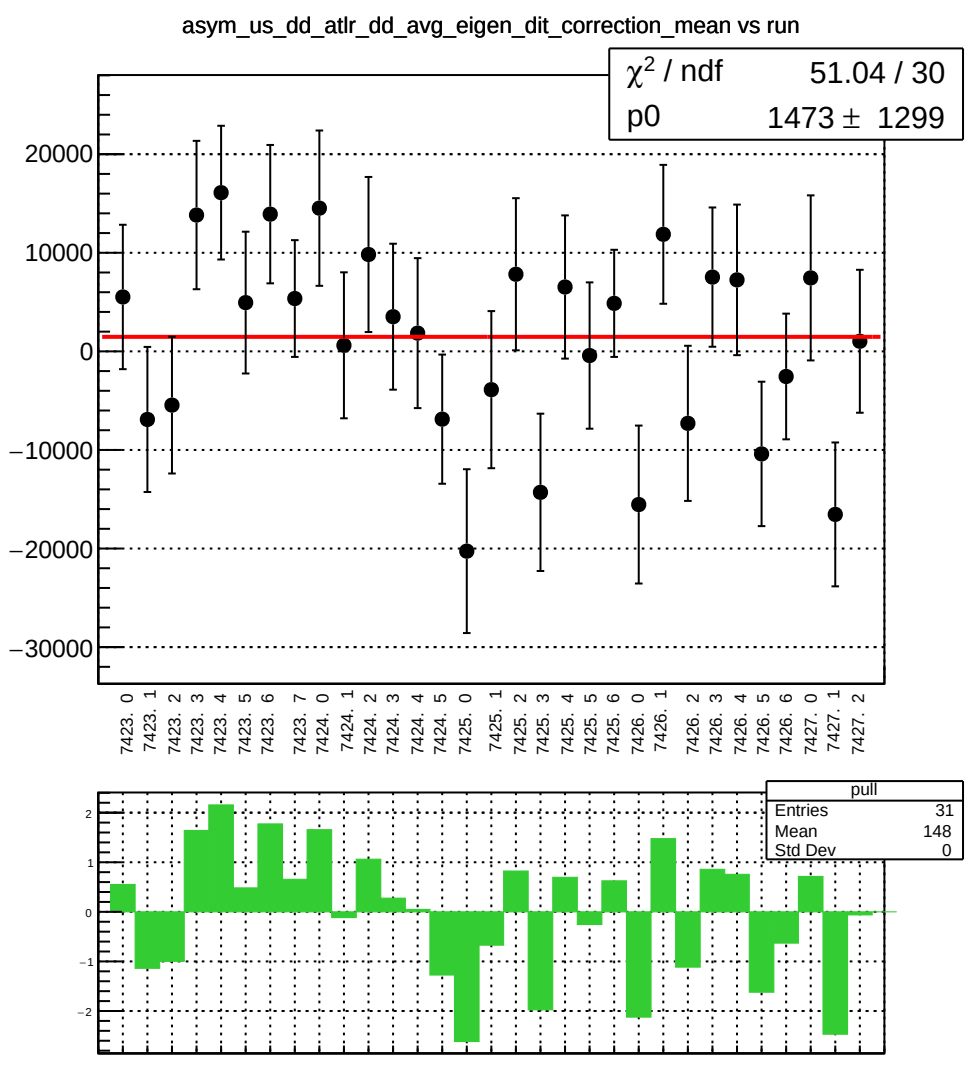

pull1D
Entries 31
Mean −0.02622
Std Dev 1.283
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

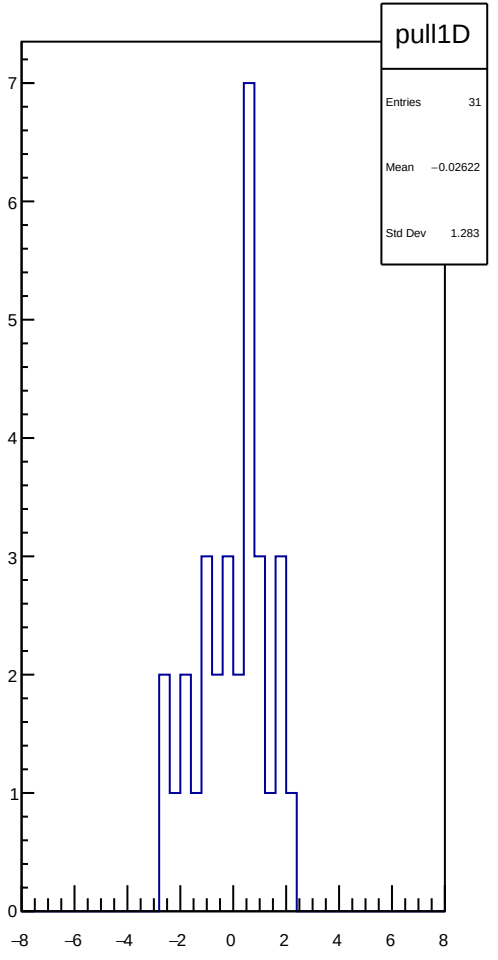

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1553 / 30
p0 707.7 ± 0.9183
800
780
760
740
720
700
680
660
640
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

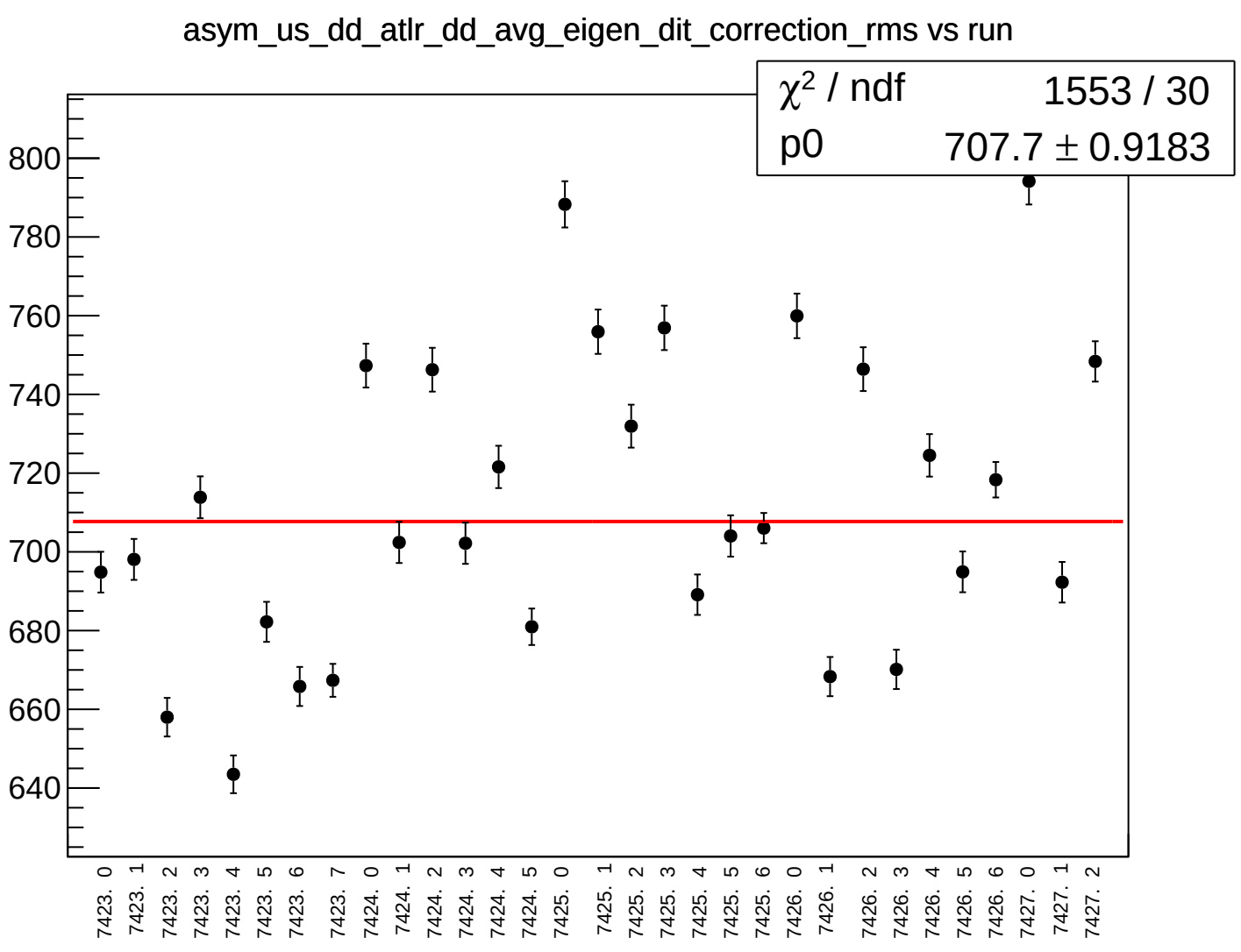

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 23.76 / 30
p0 5589 ± 3176
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 44.64
Std Dev 82.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

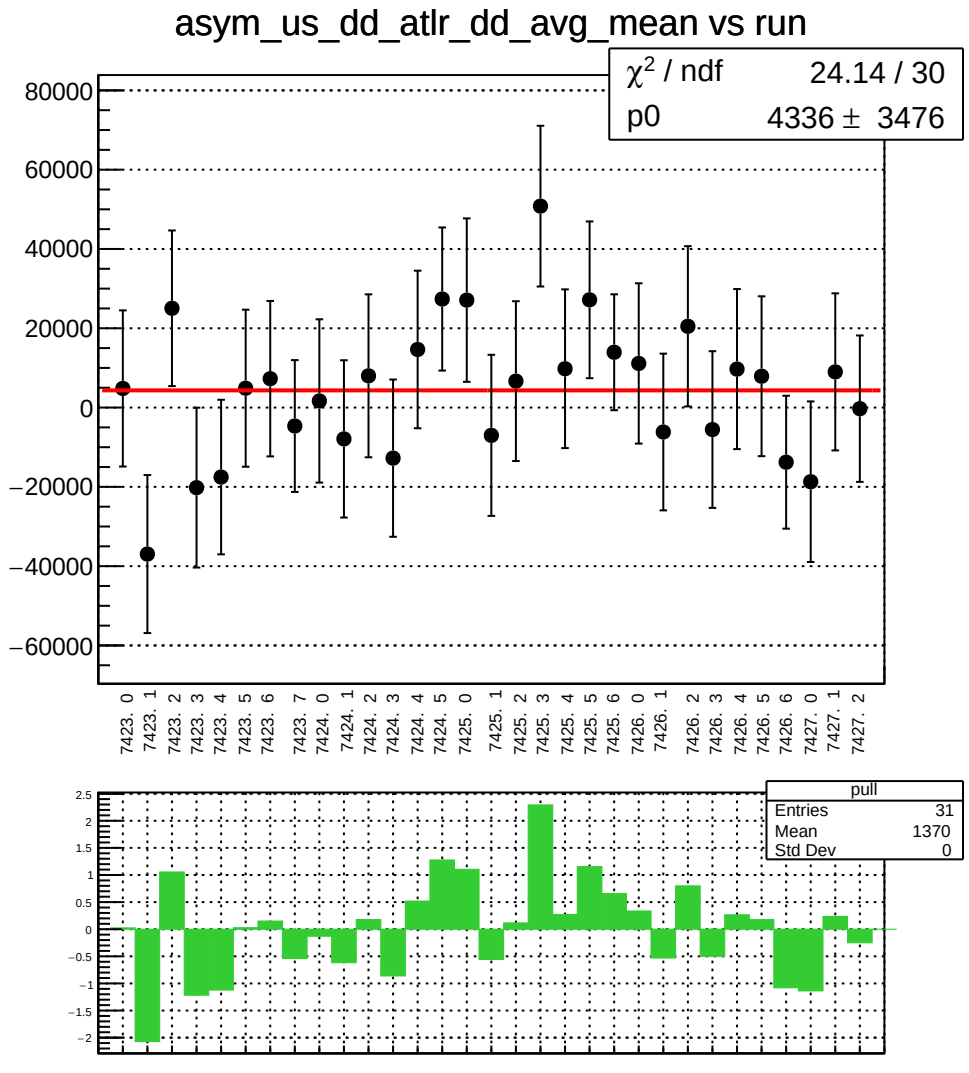

pull1D
Entries 31
Mean −0.003842
Std Dev 0.8755
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

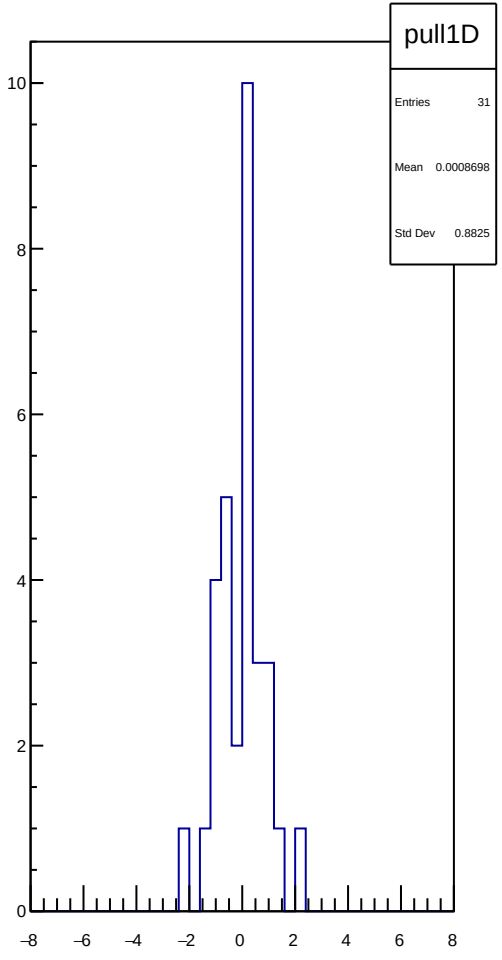

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 20.9 / 30
p0 1733 ± 2.245
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

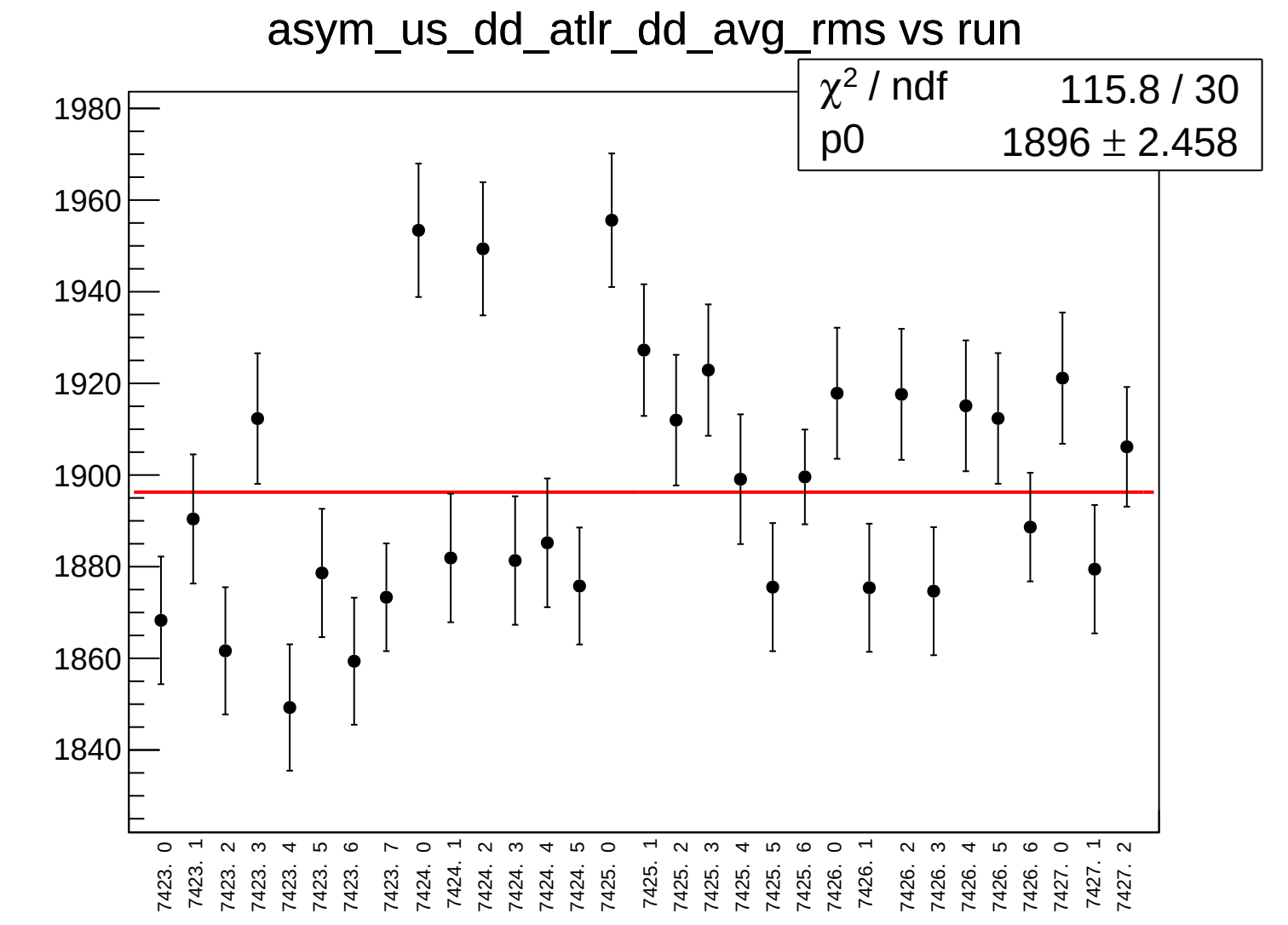

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 51.04 / 30
p0 1473 ± 1299
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 148
Std Dev 0
2
1
0
−1
−2

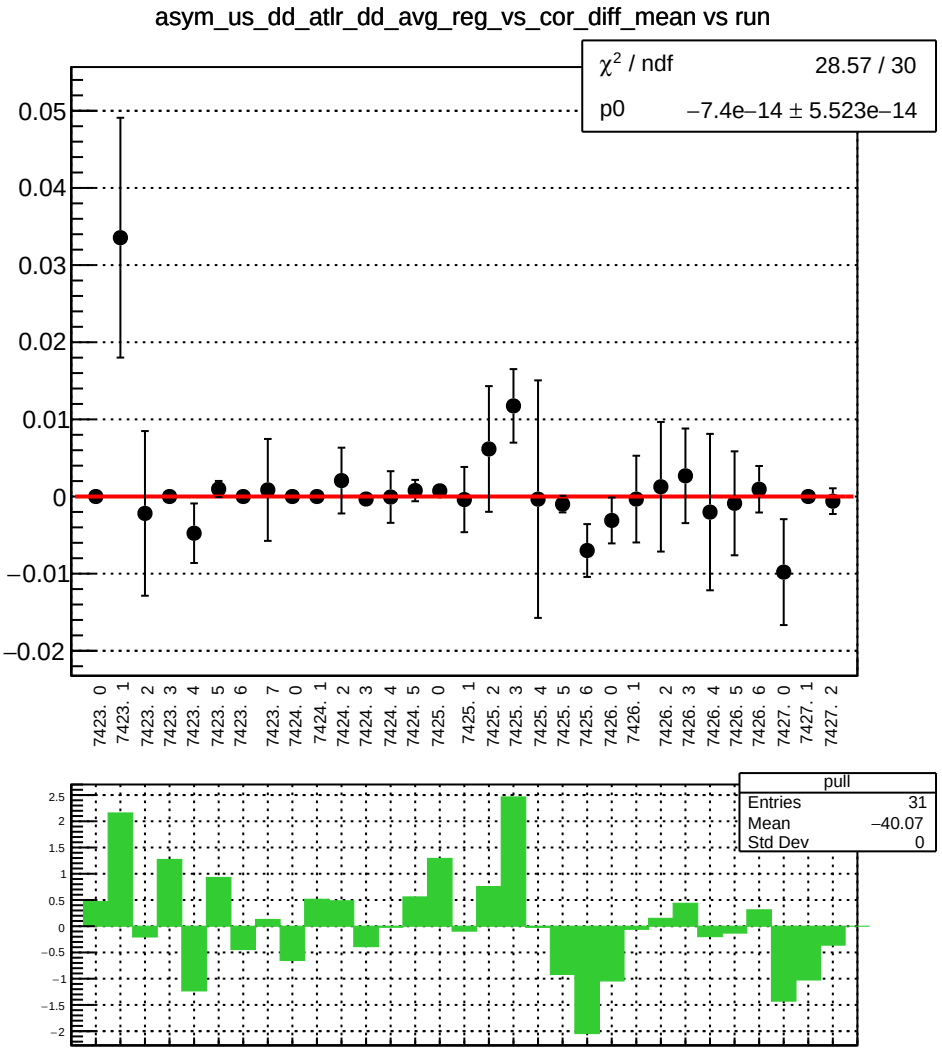

pull1D
Entries 31
Mean −0.02622
Std Dev 1.283
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

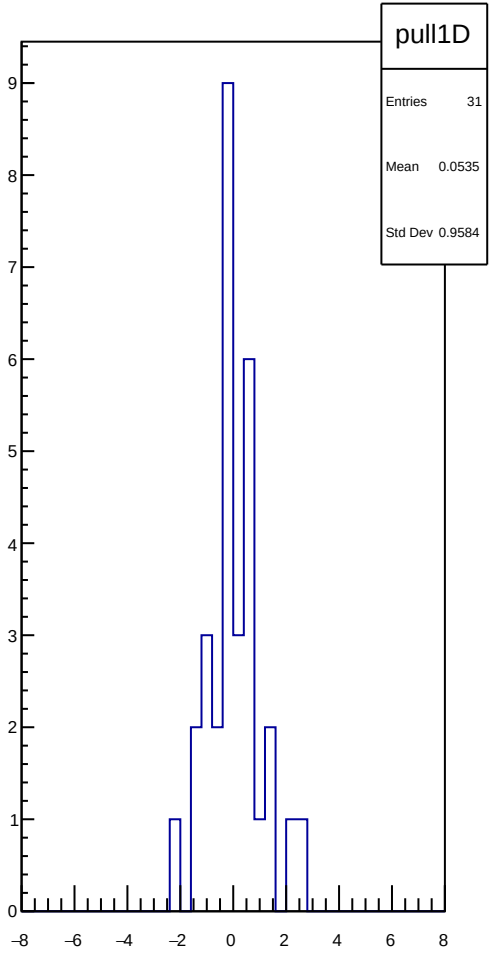

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1553 / 30
p0 707.7 ± 0.9183
800
780
760
740
720
700
680
660
640
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

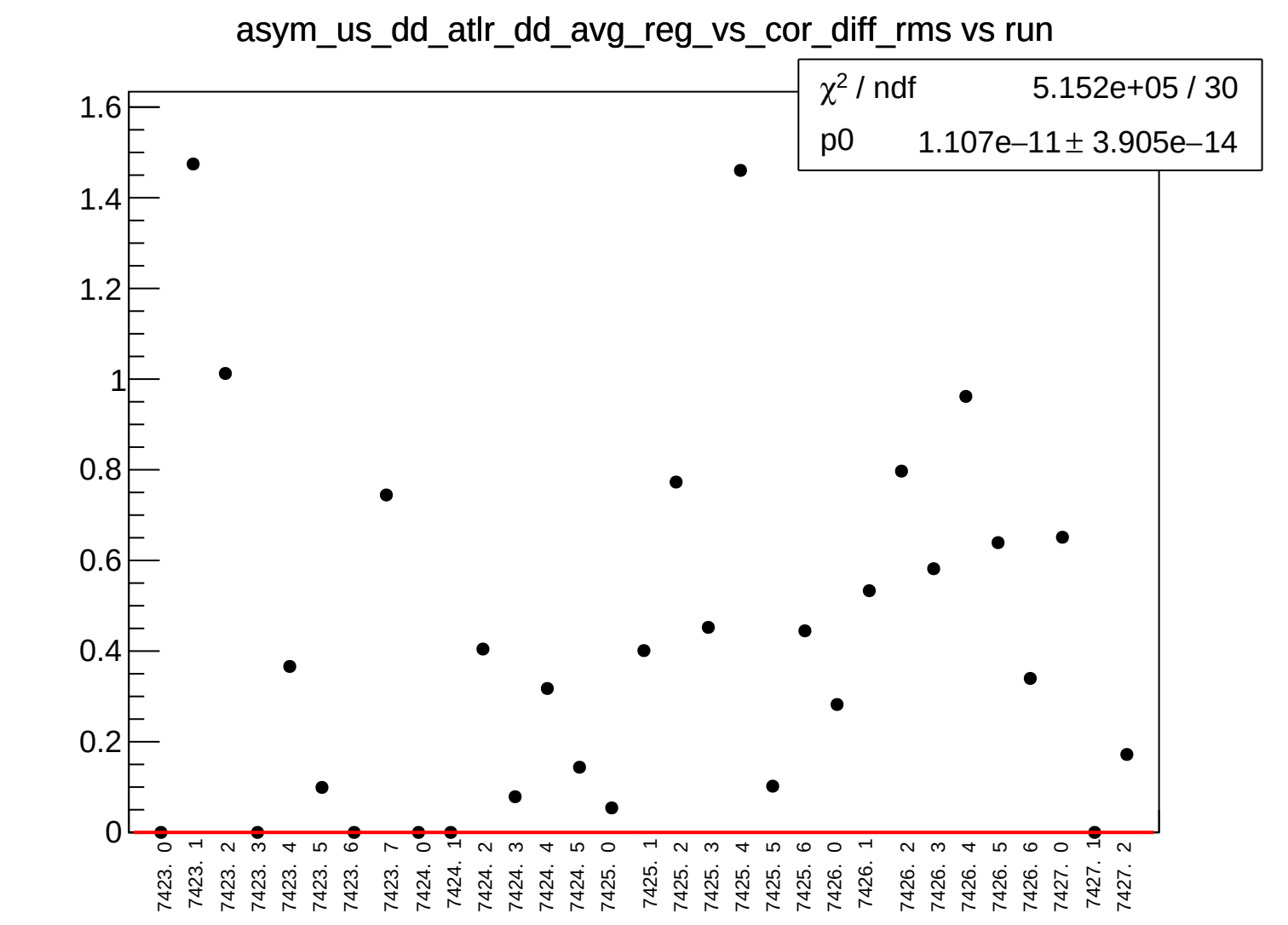

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 24.14 / 30
p0 4336 ± 3476
80000
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1370
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

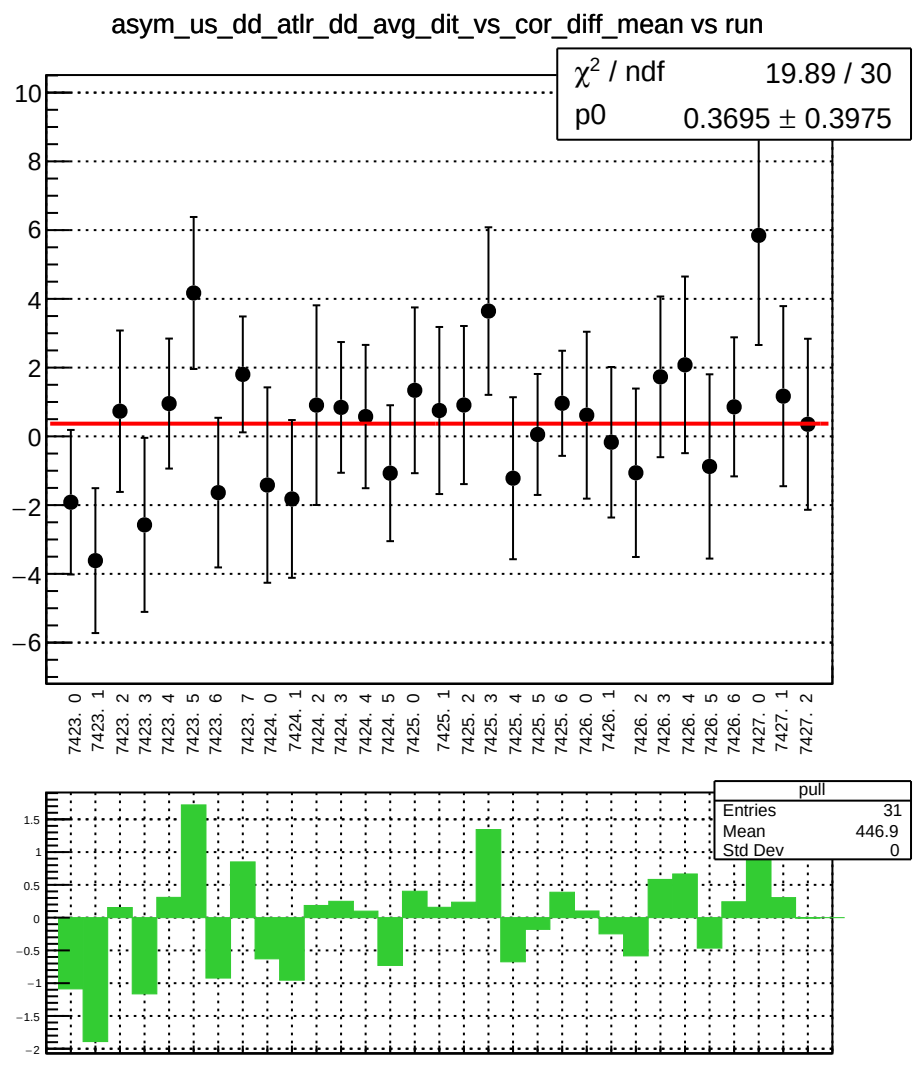

pull1D
Entries 31
Mean 0.0008698
Std Dev 0.8825
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

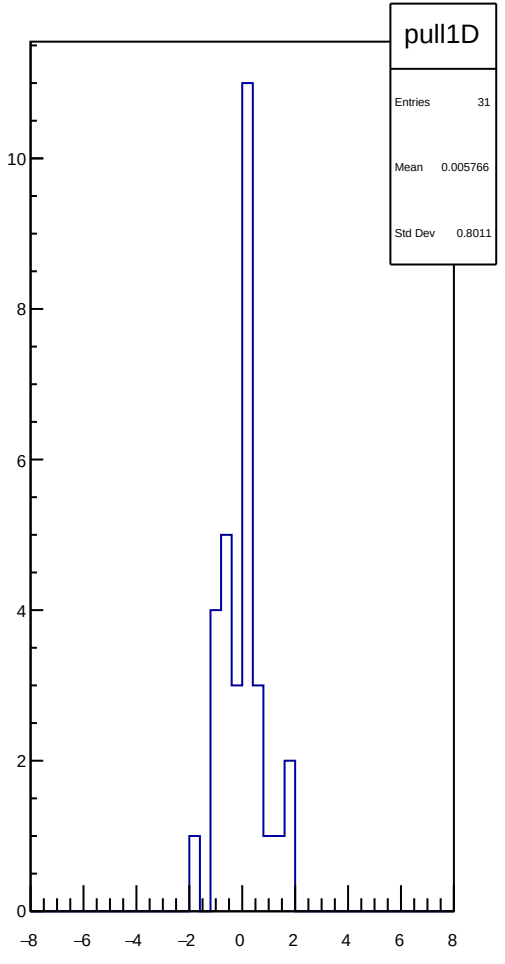

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 115.8 / 30
p0 1896 ± 2.458
1980
1960
1940
1920
1900
1880
1860
1840
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

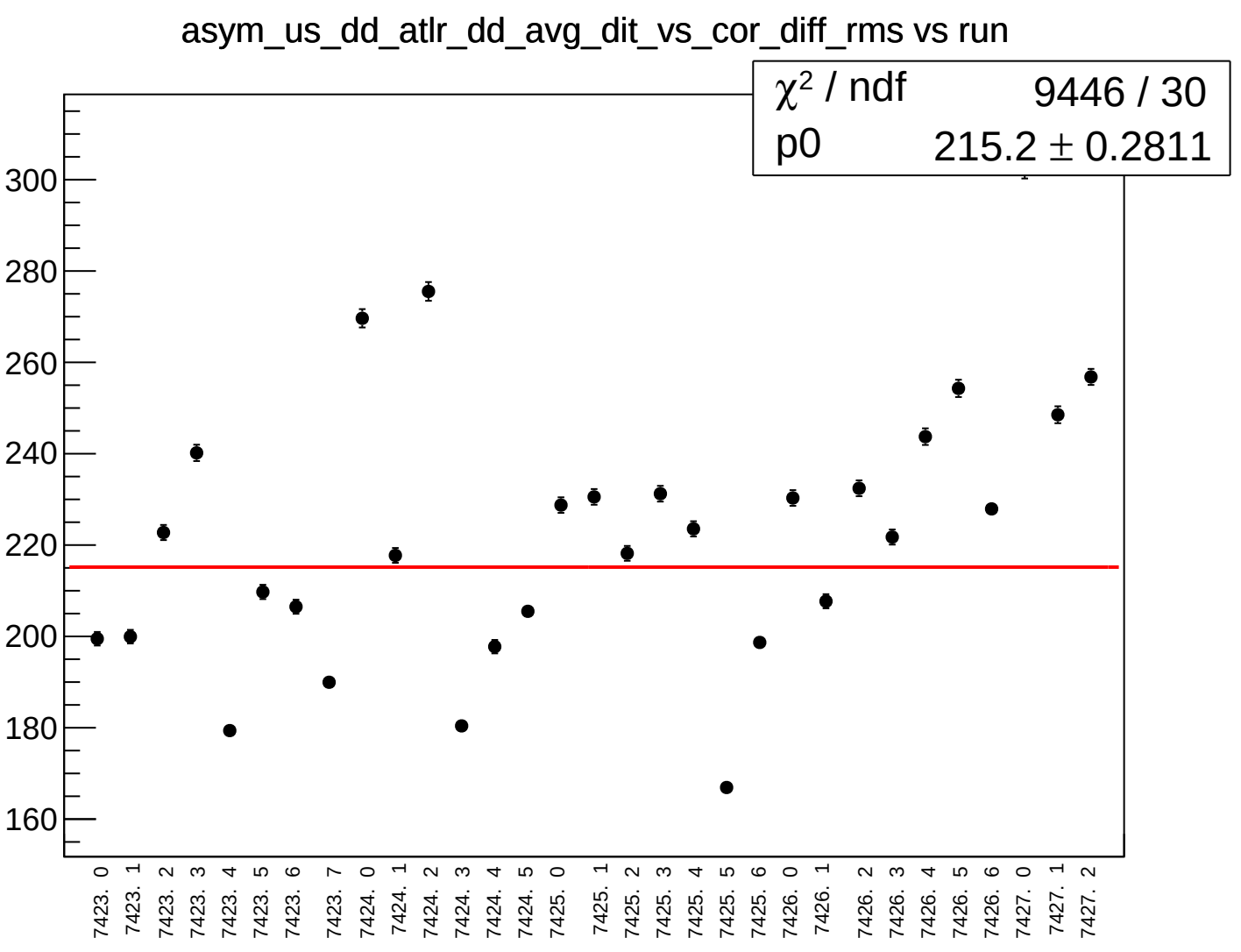

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.57 / 30
p0 −7.4e−14 ± 5.523e−14
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −40.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean 0.0535
Std Dev 0.9584
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

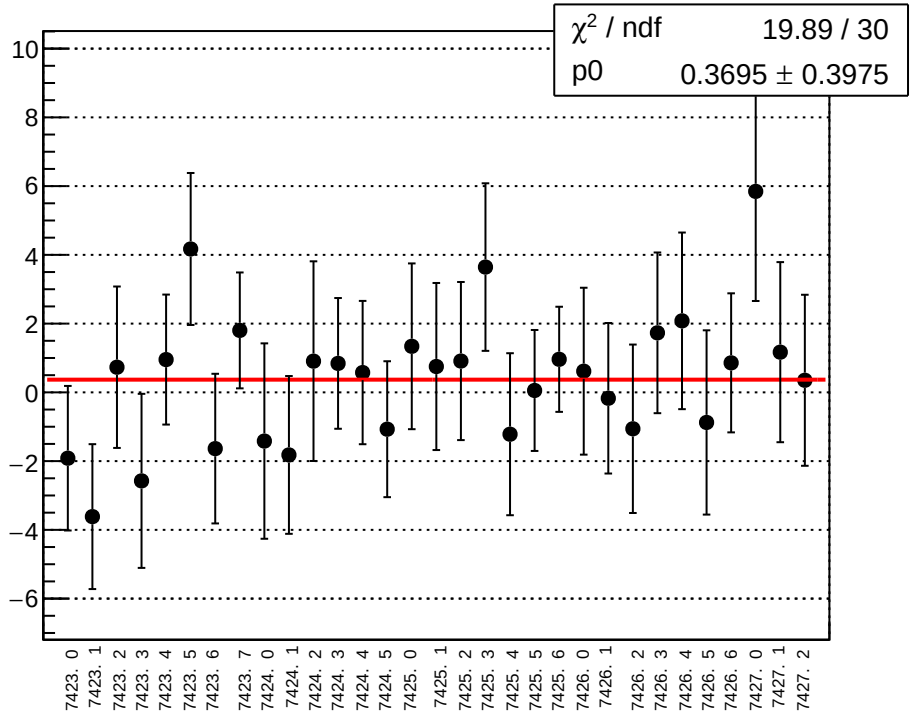

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.152e+05 / 30
p0 1.107e−11 ± 3.905e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

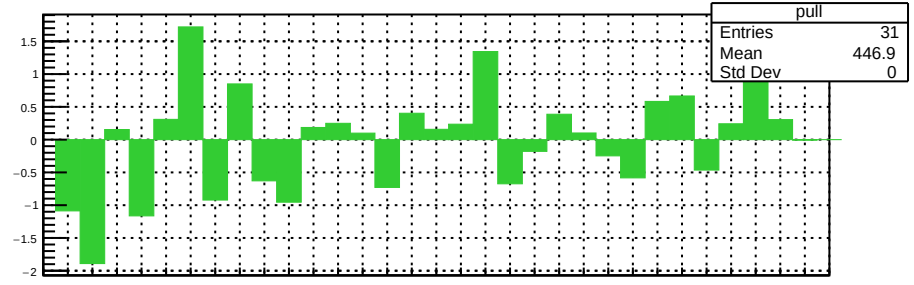

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 19.89 / 30
p0 0.3695 ± 0.3975
pull
Entries 31
Mean 446.9
Std Dev 0

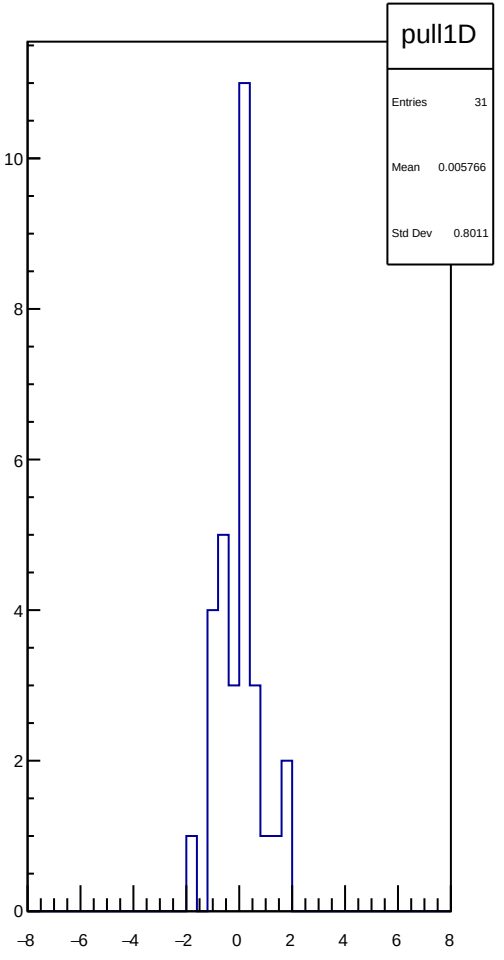

pull1D
Entries 31
Mean 0.005766
Std Dev 0.8011

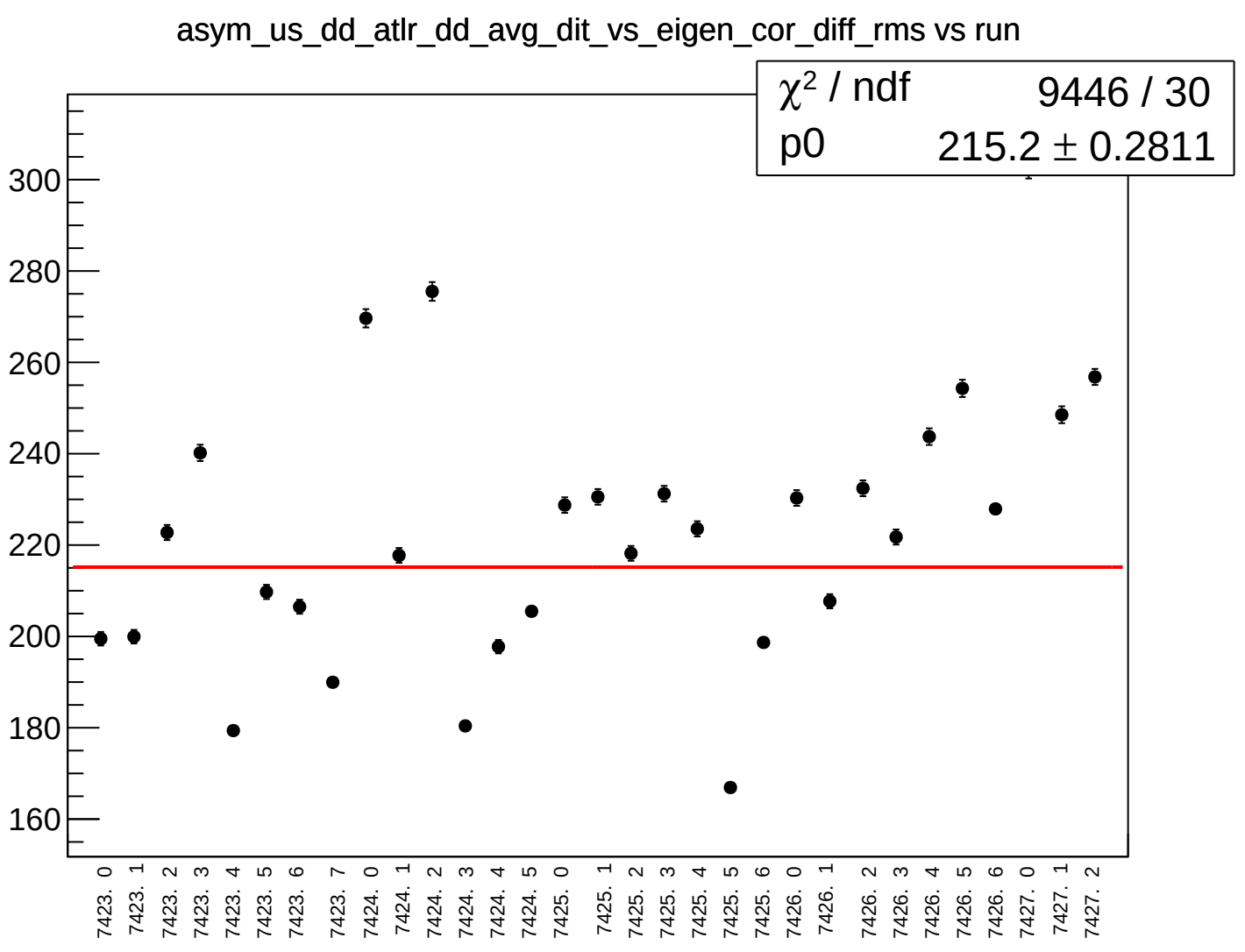

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9446 / 30
p0 215.2 ± 0.2811
300
280
260
240
220
200
180
160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

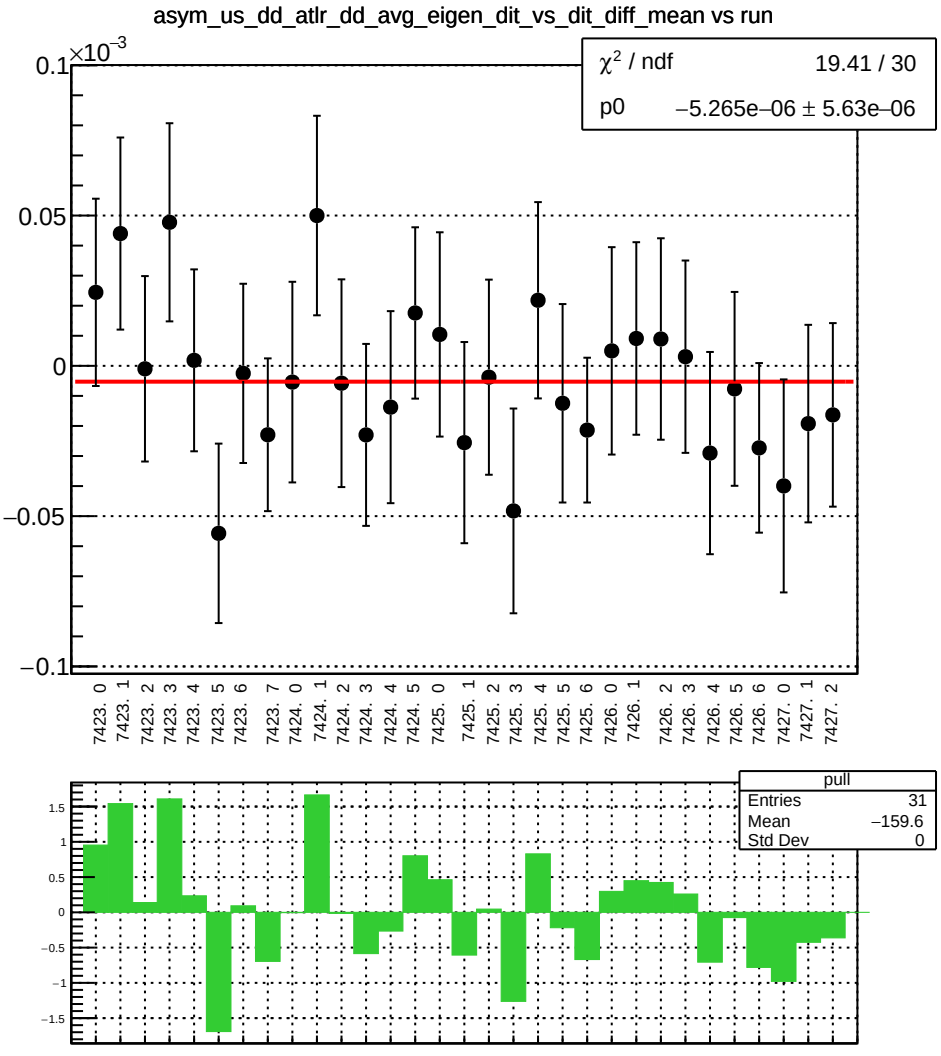
asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run

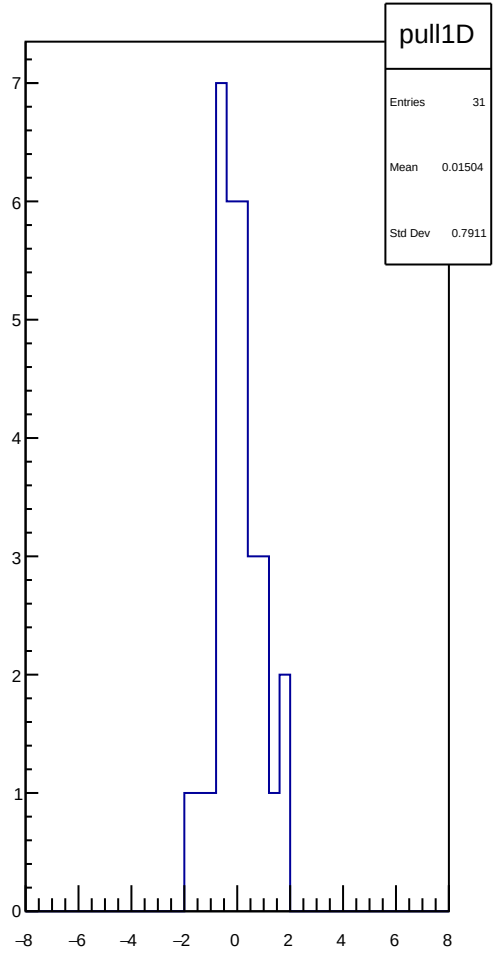


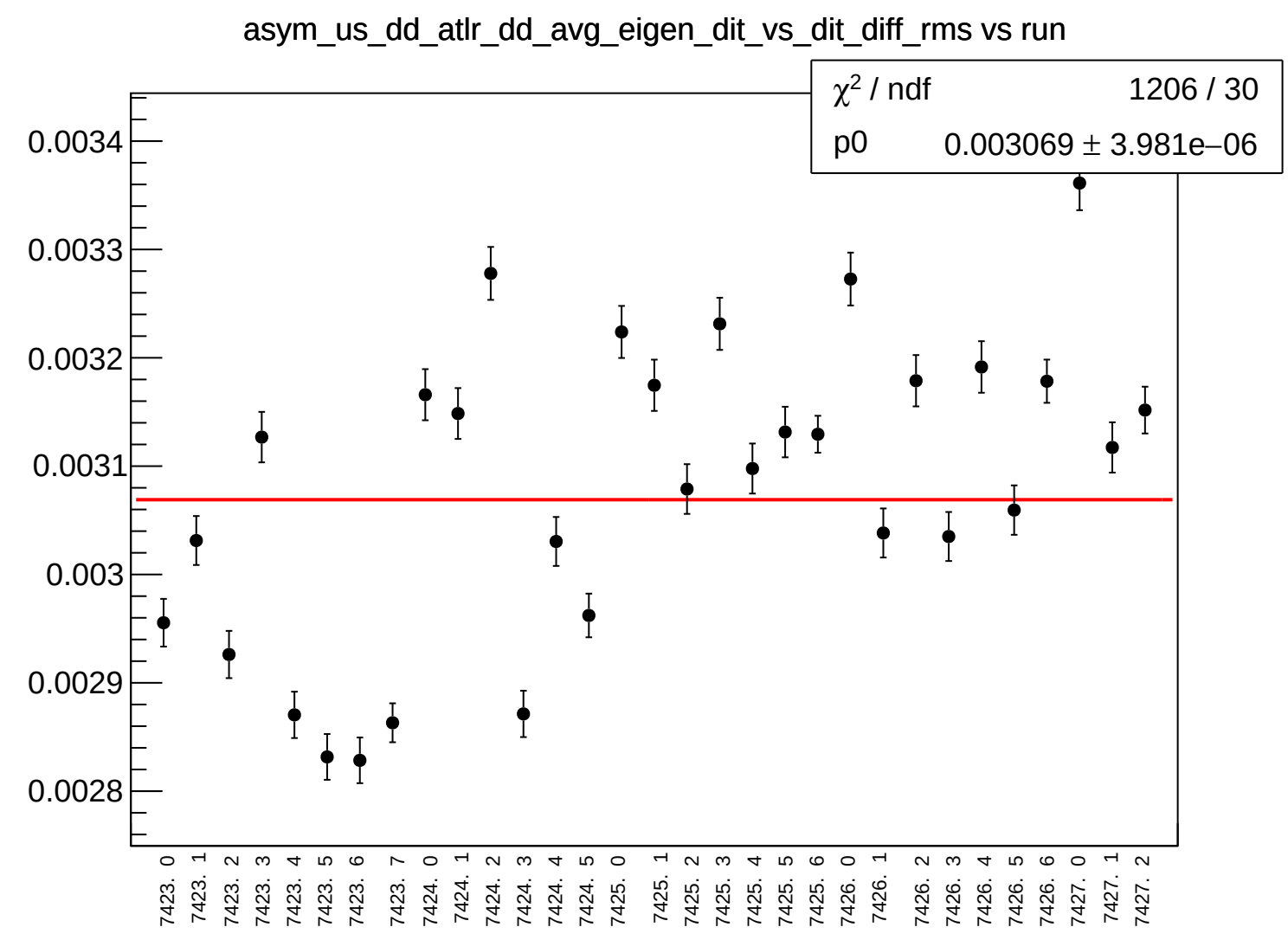




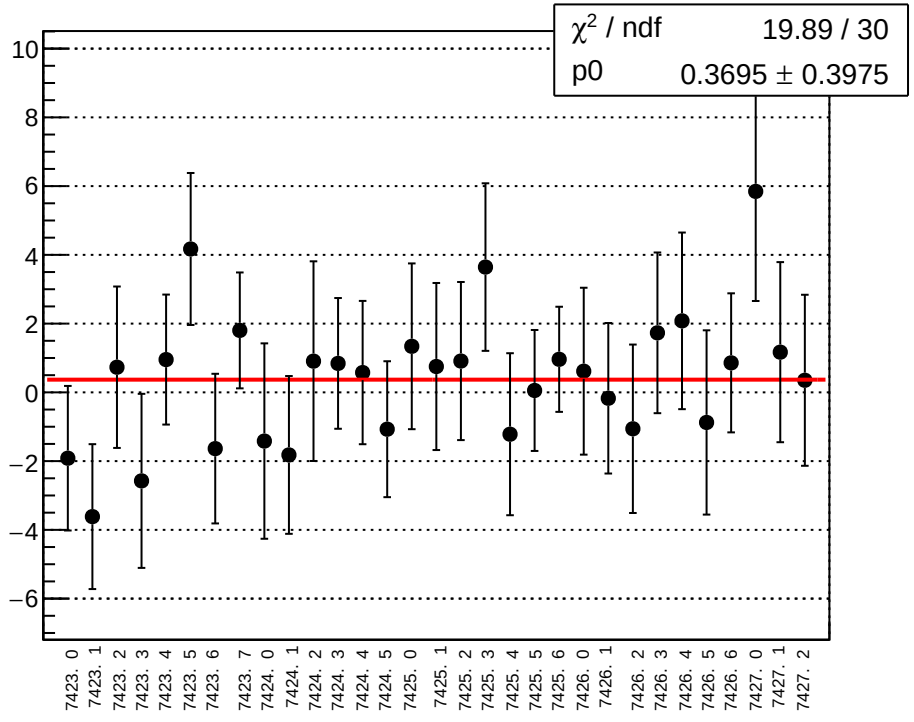

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9446 / 30
p0 215.2 ± 0.2811
300
280
260
240
220
200
180
160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

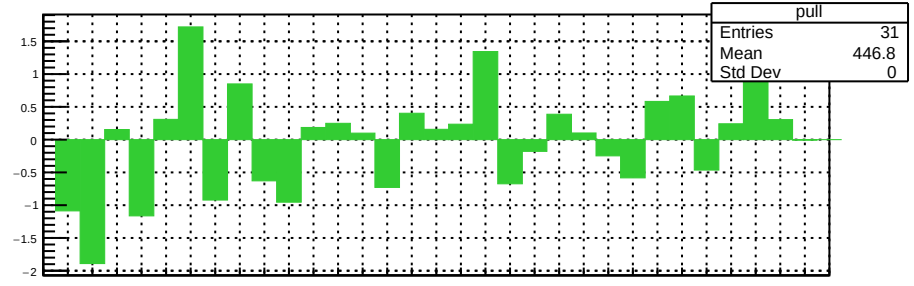

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.41 / 30
p0 −5.265e−06 ± 5.63e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −159.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

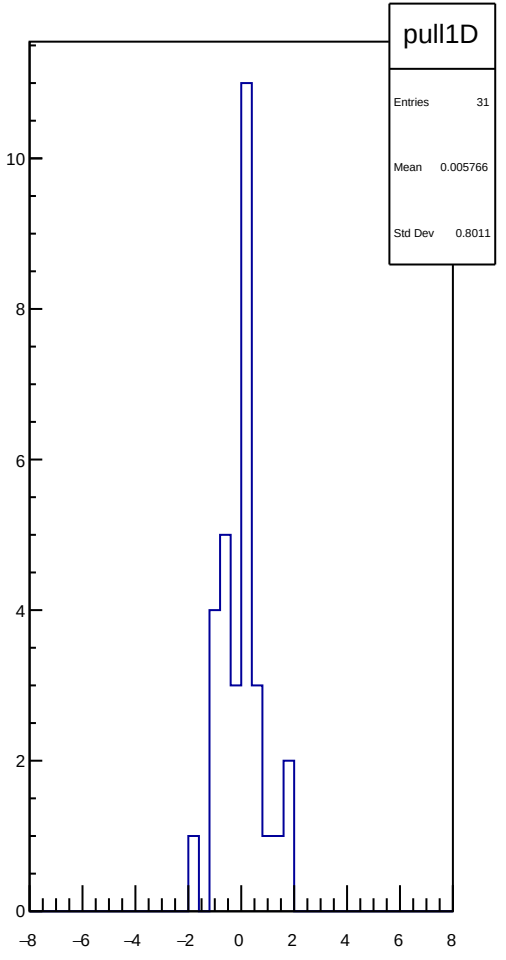

pull1D
Entries 31
Mean 0.01504
Std Dev 0.7911
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

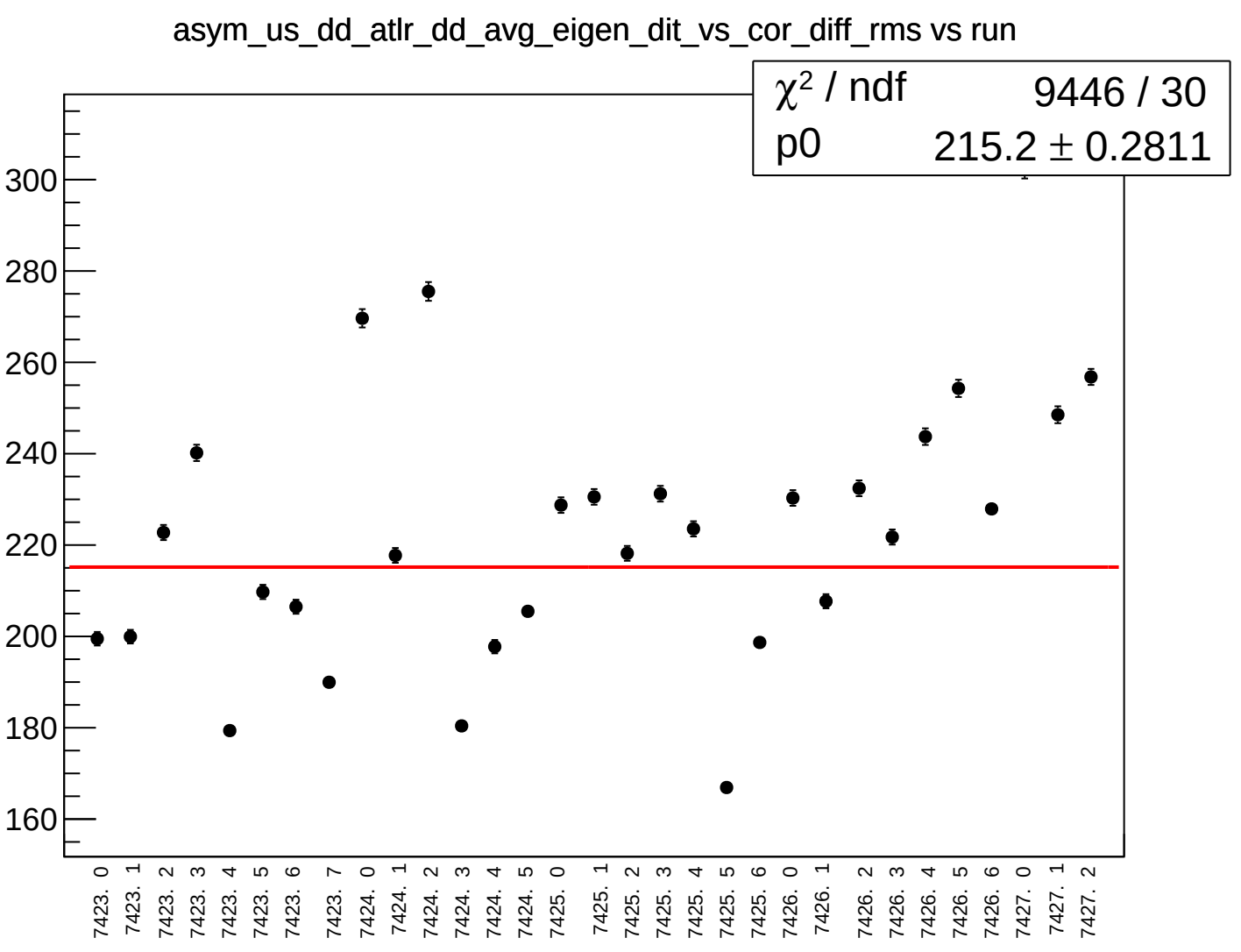

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1206 / 30
p0 0.003069 ± 3.981e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

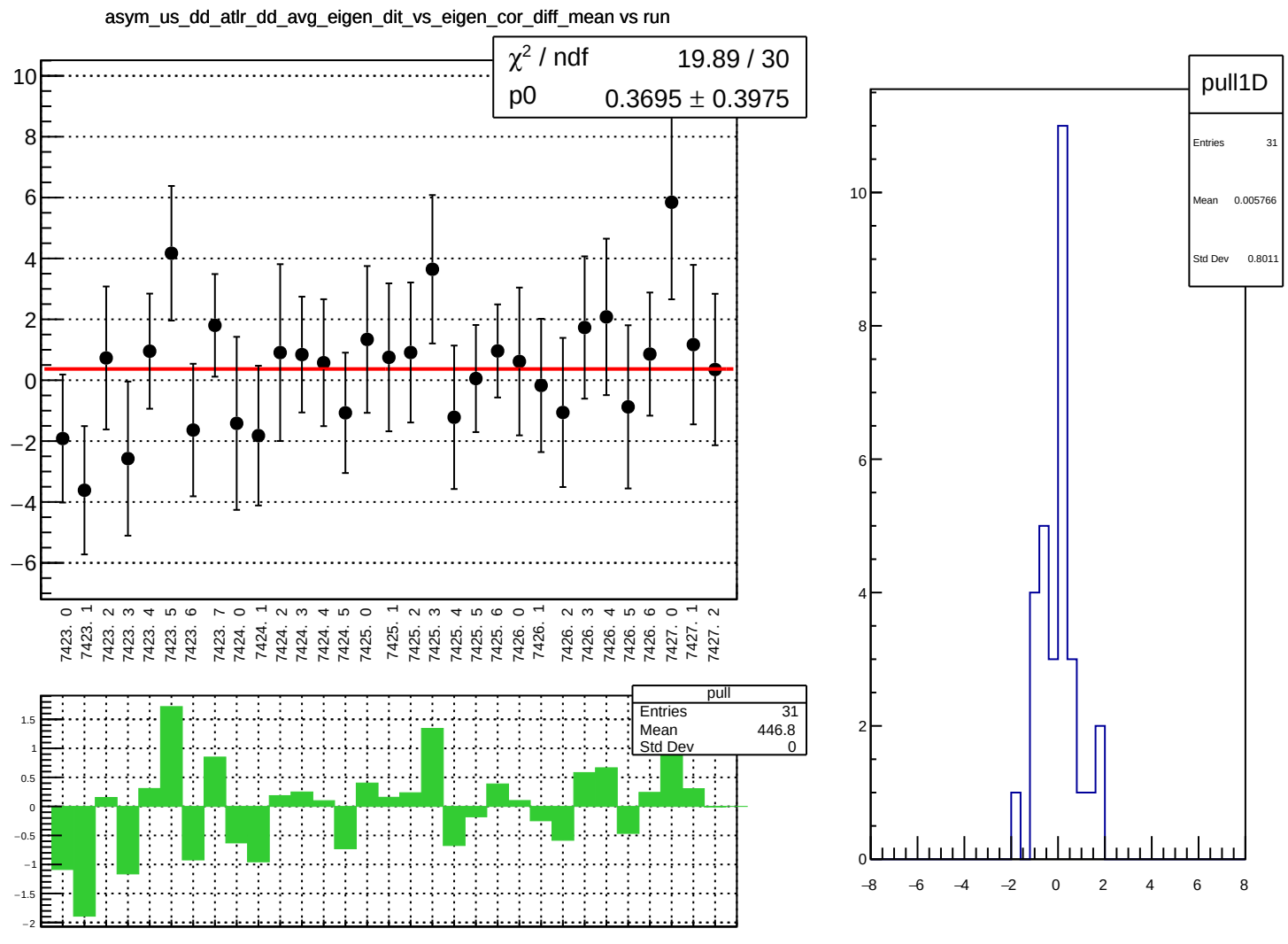
asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

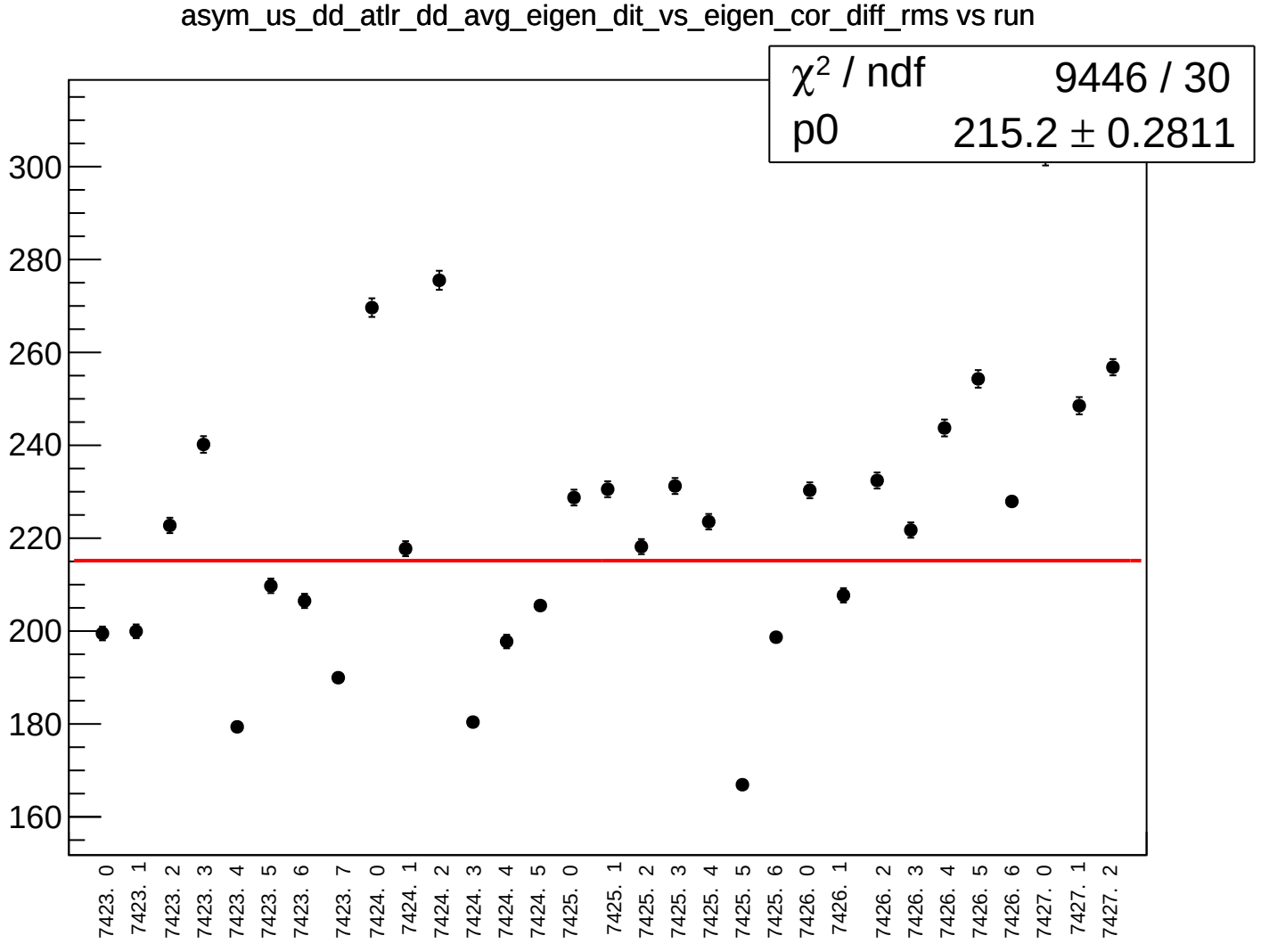


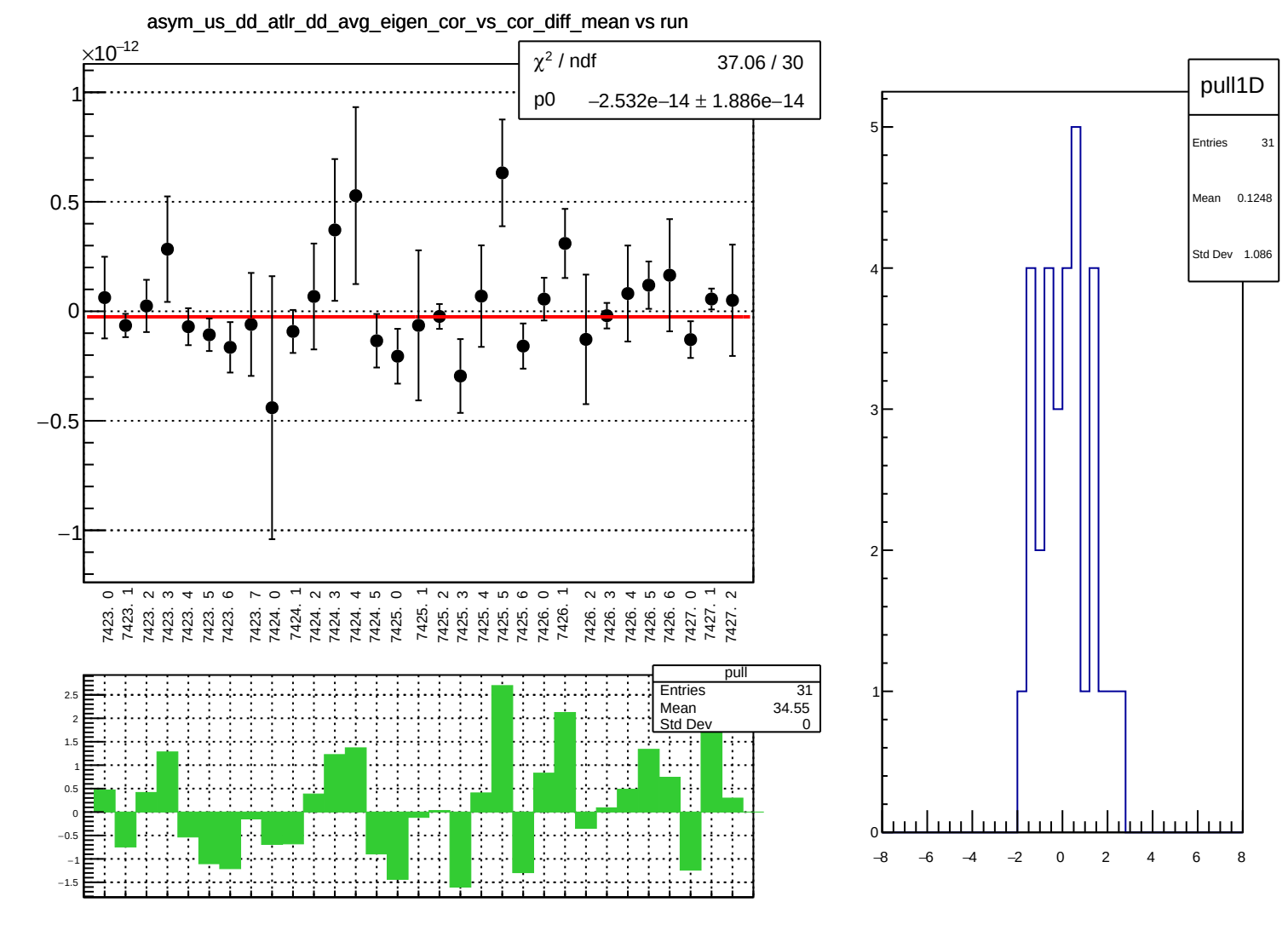


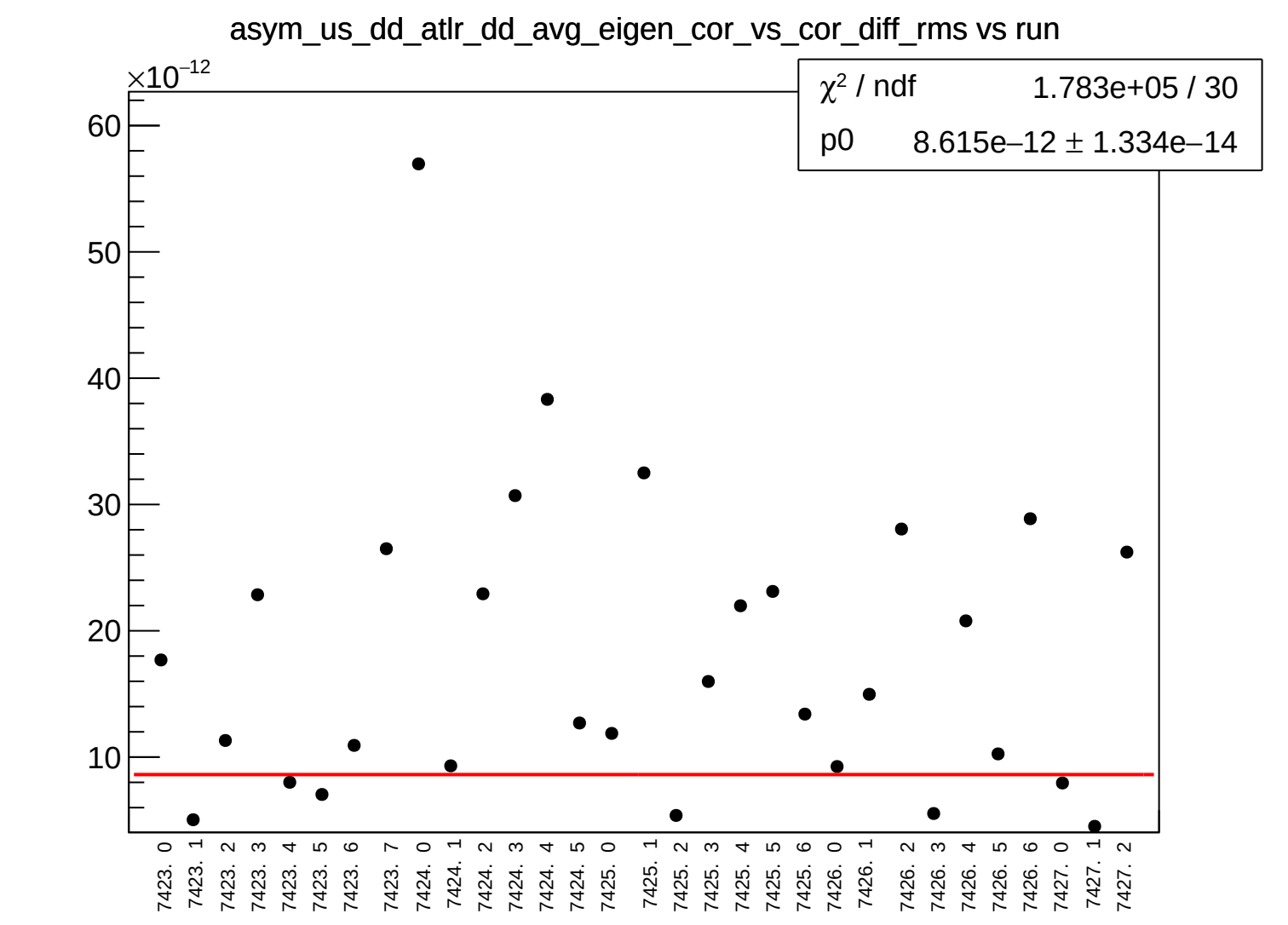


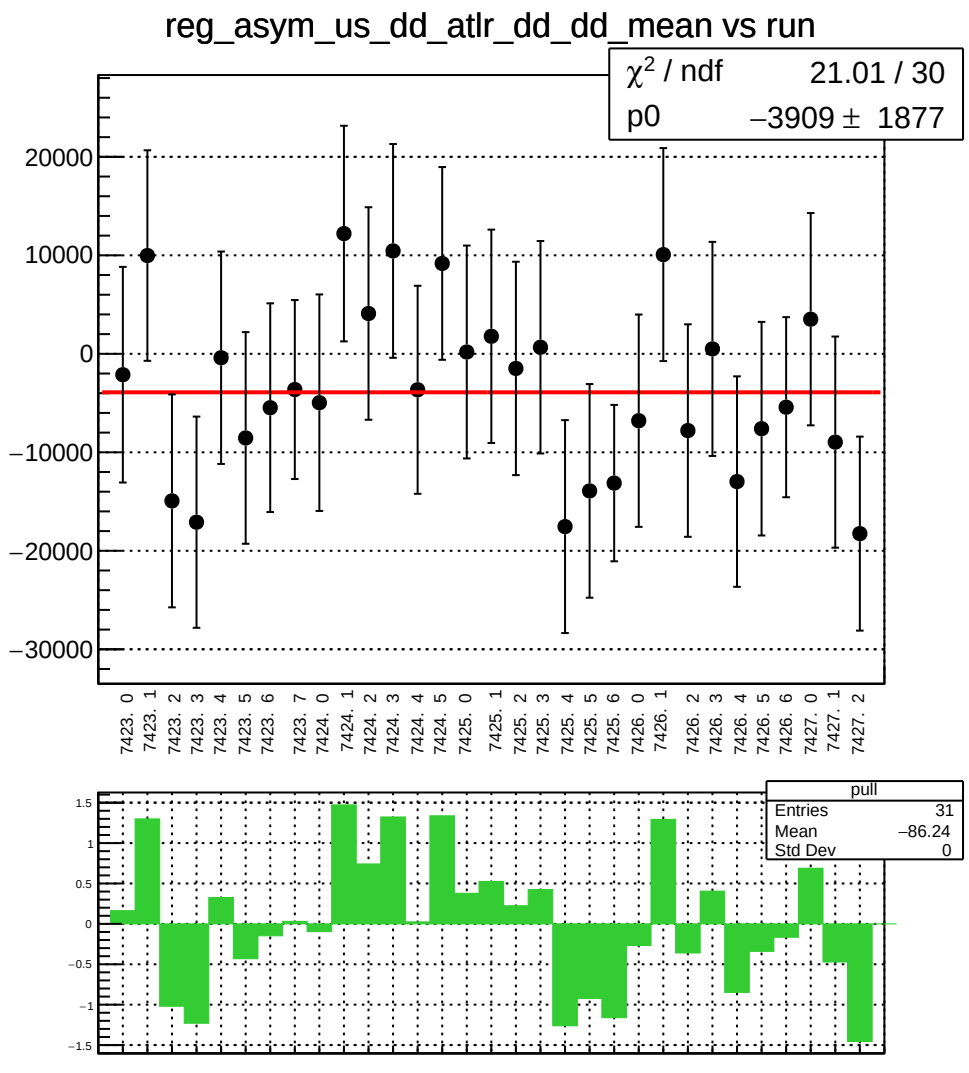

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9446 / 30
p0 215.2 ± 0.2811
300
280
260
240
220
200
180
160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

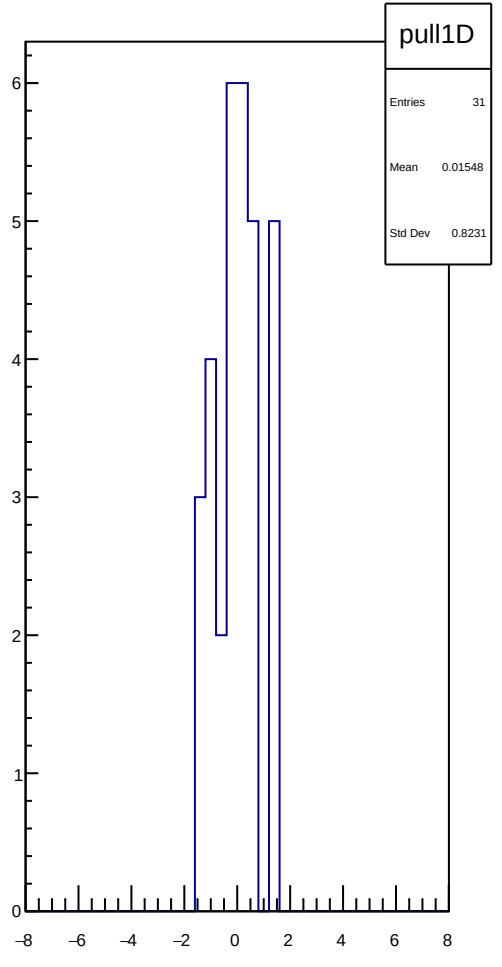

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.89 / 30
p0 0.3695 ± 0.3975
10
8
6
4
2
0
−2
−4
−6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 446.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.005766
Std Dev 0.8011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

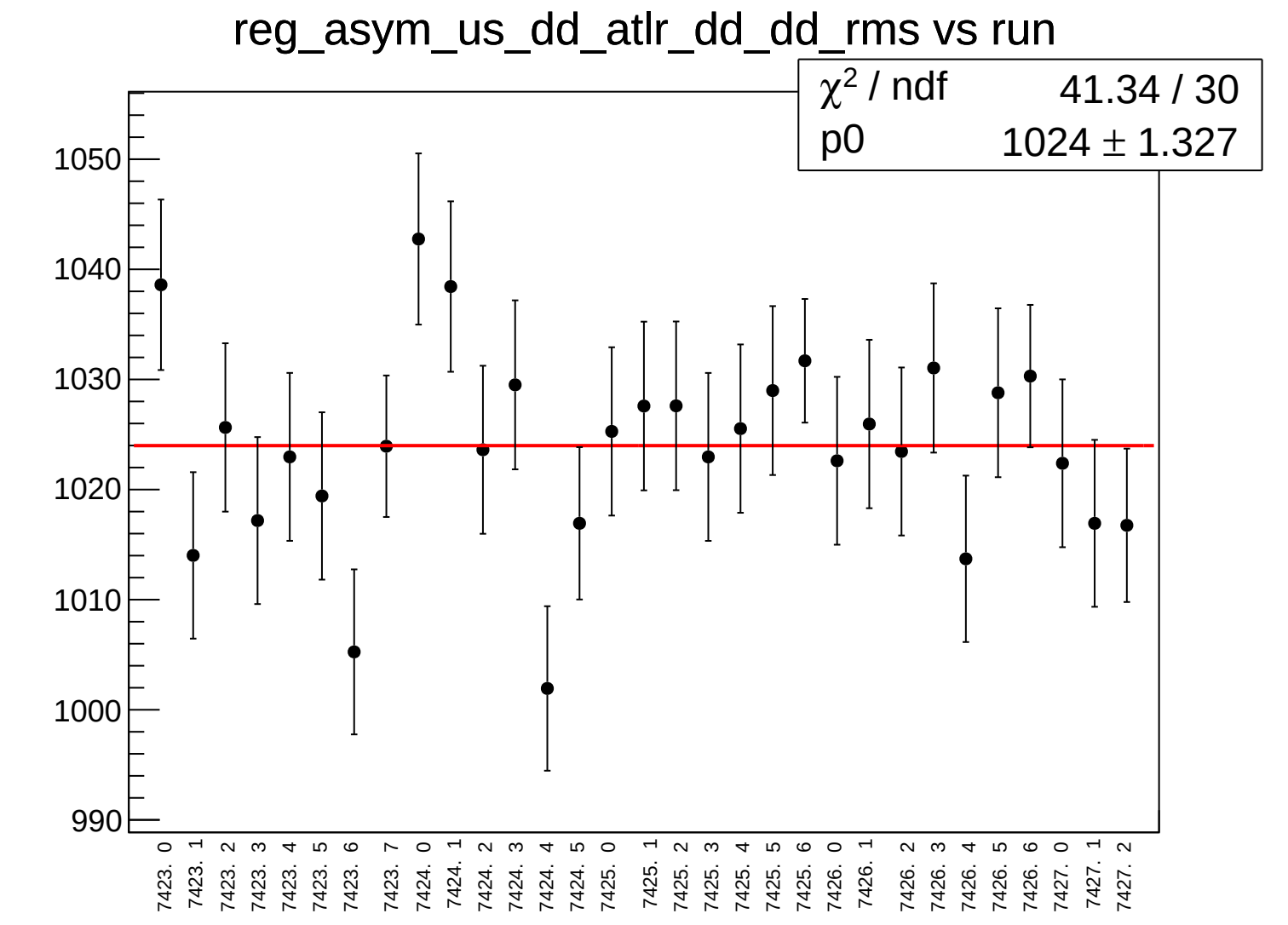

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9446 / 30
p0 215.2 ± 0.2811
300
280
260
240
220
200
180
160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

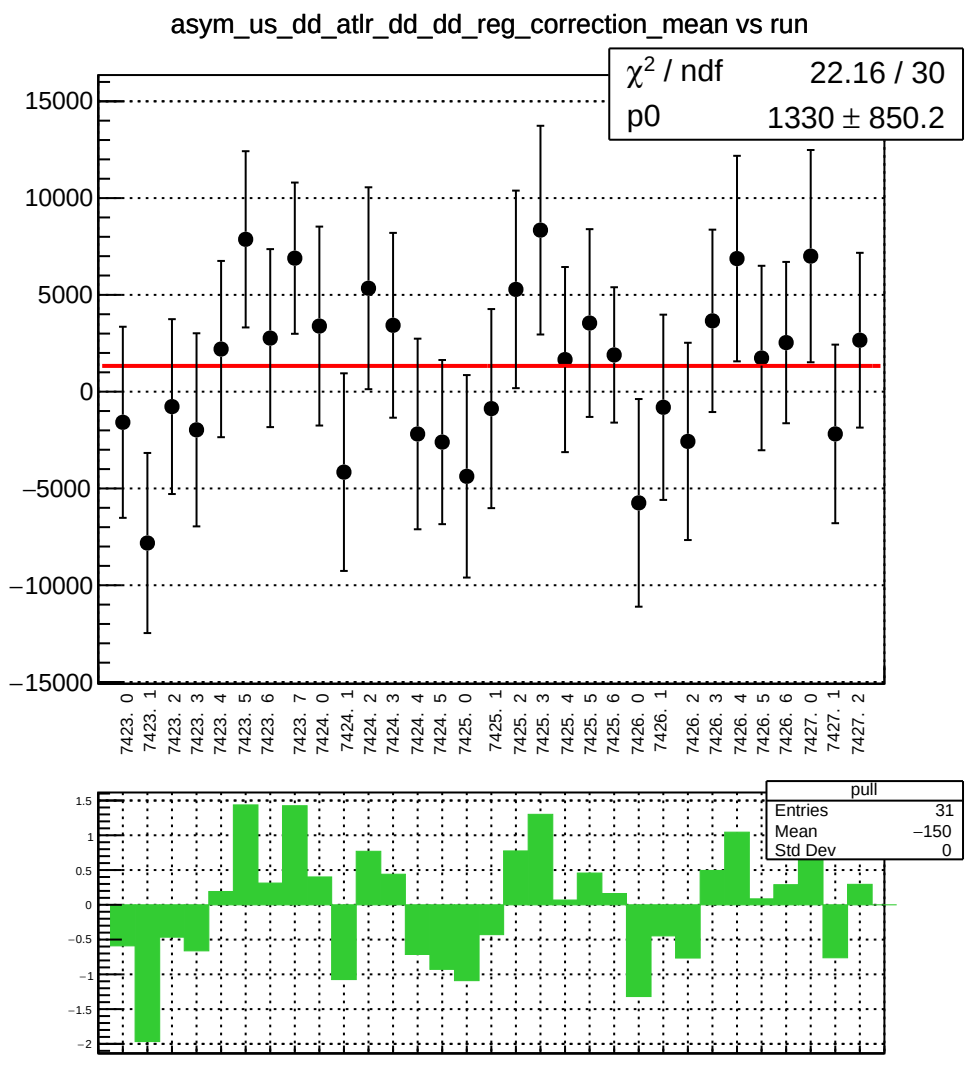

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 37.06 / 30
p0 −2.532e−14 ± 1.886e−14
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 34.55
Std Dev 0
pull1D
Entries 31
Mean 0.1248
Std Dev 1.086

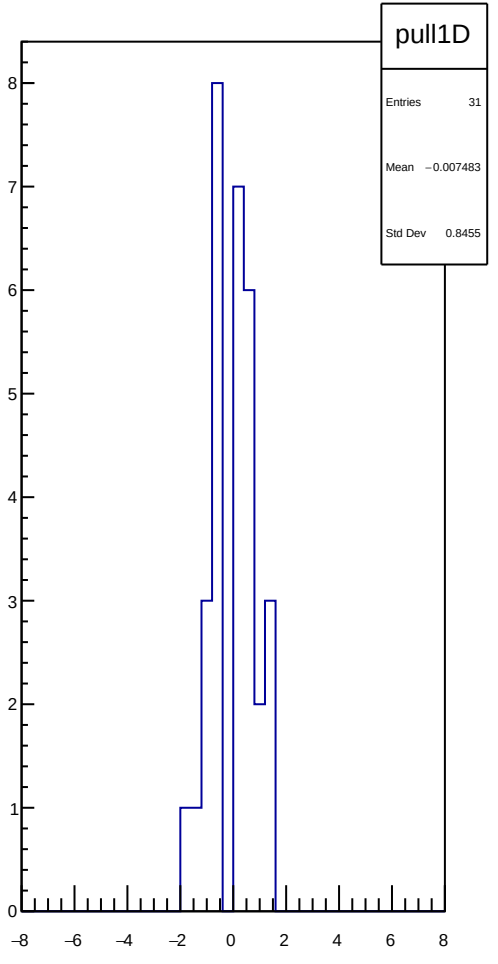

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.783e+05 / 30
p0 8.615e−12 ± 1.334e−14
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

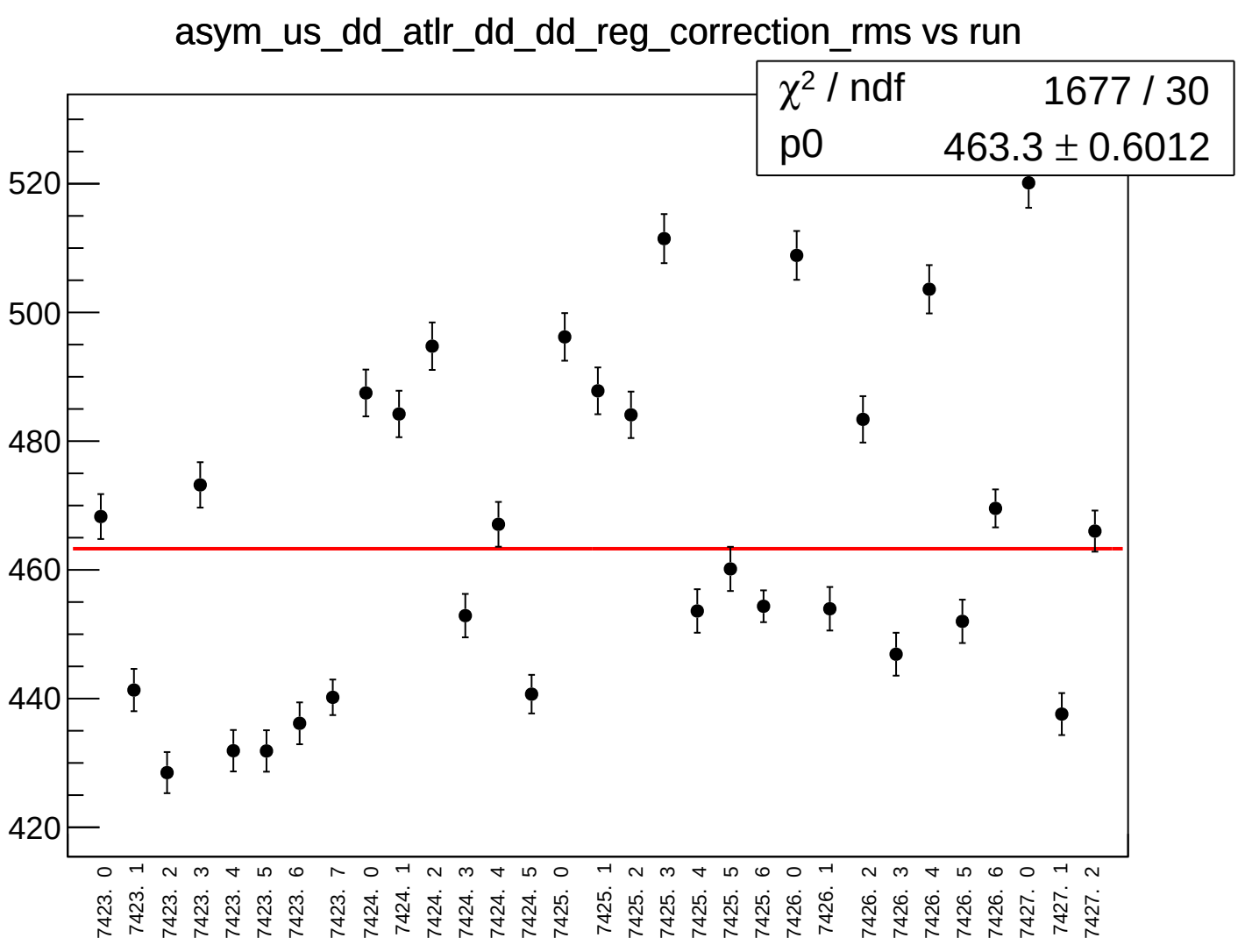

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 21.01 / 30
p0 −3909 ± 1877
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −86.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

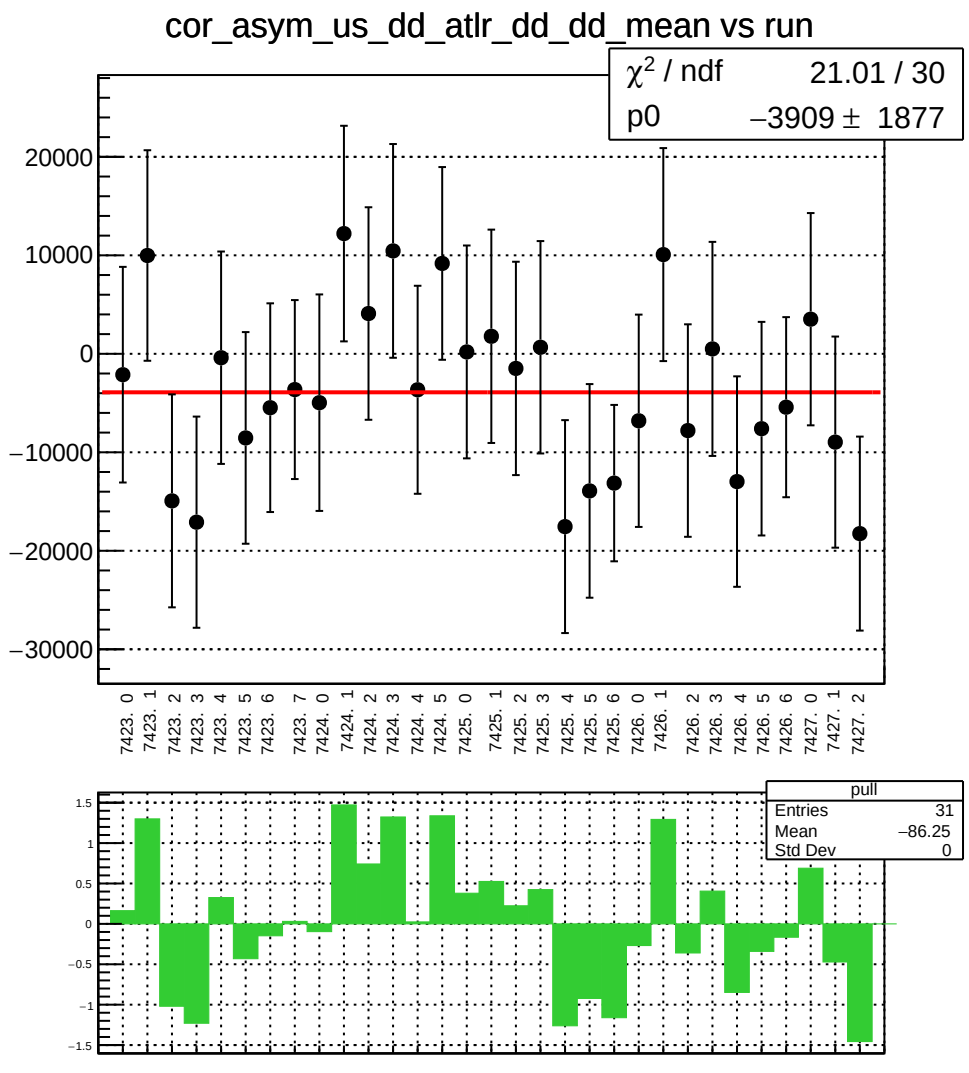

pull1D
Entries 31
Mean 0.01548
Std Dev 0.8231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

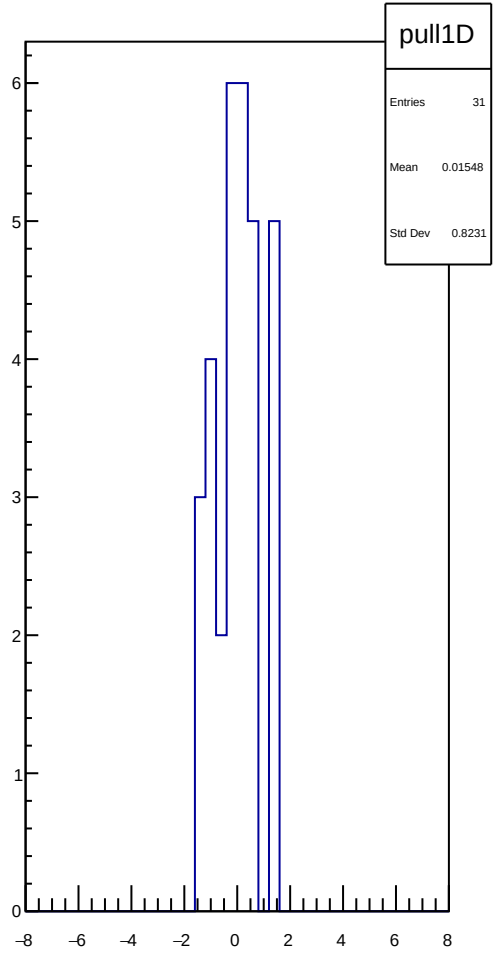

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 41.34 / 30
p0 1024 ± 1.327
1050
1040
1030
1020
1010
1000
990
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

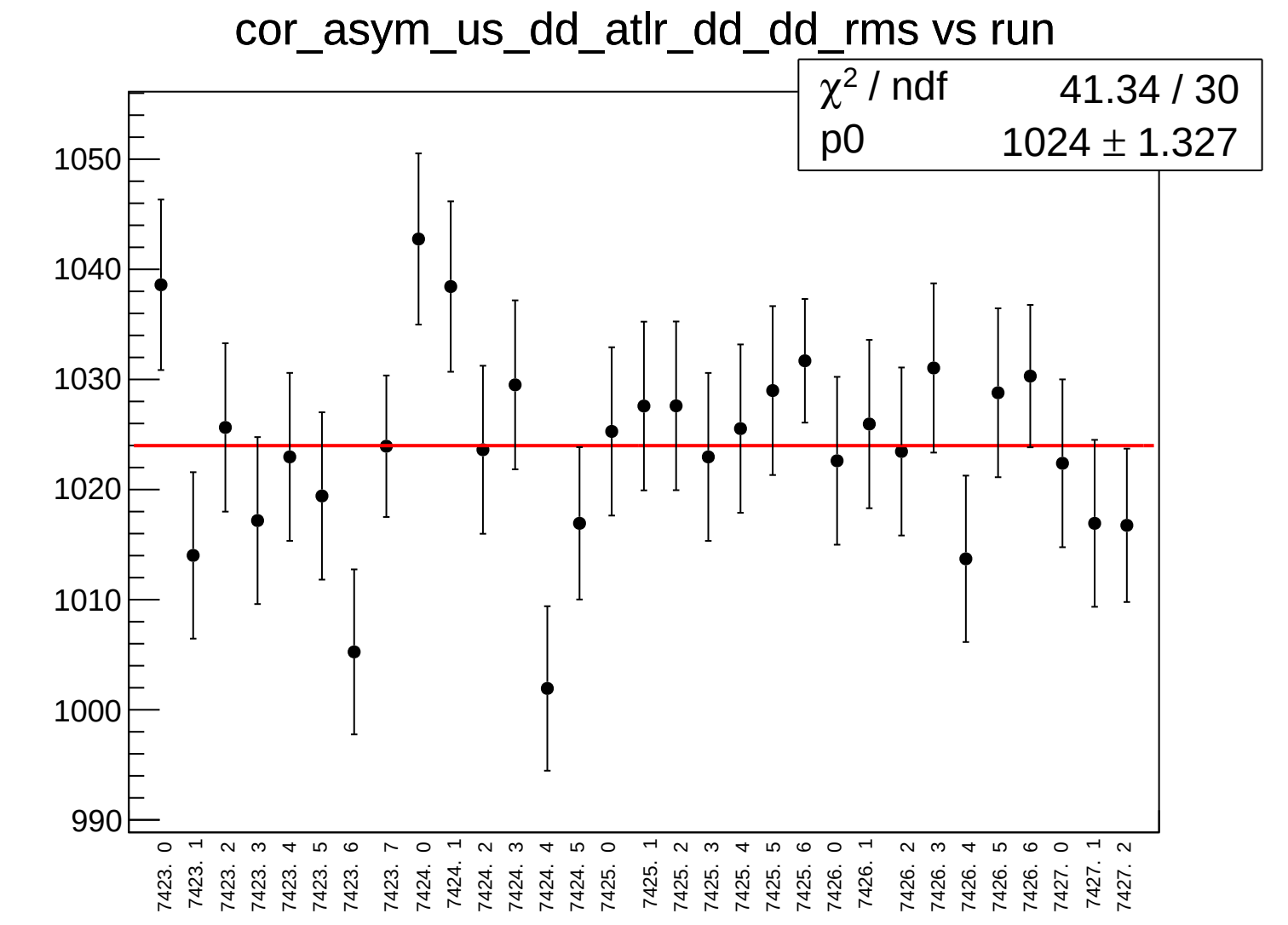

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 22.16 / 30
p0 1330 ± 850.2
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −150
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

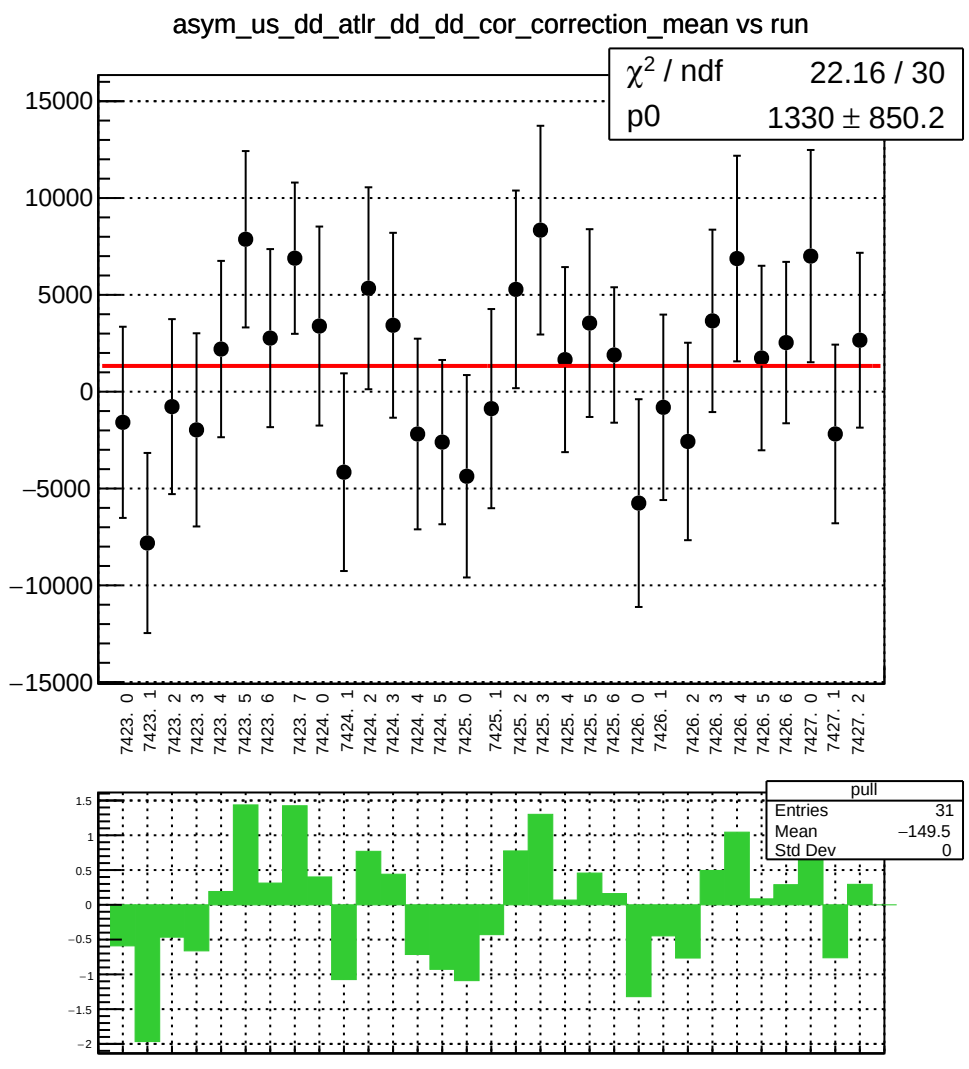

pull1D
Entries 31
Mean −0.007483
Std Dev 0.8455
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

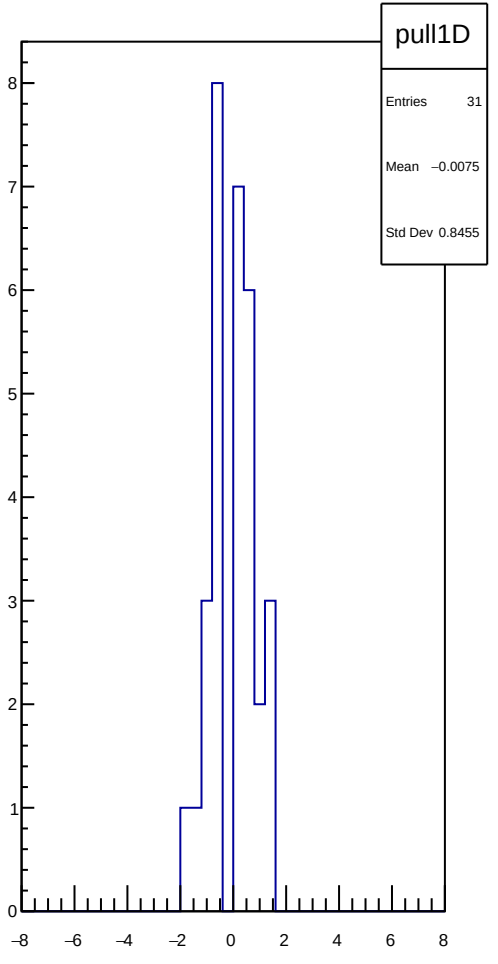

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1677 / 30
p0 463.3 ± 0.6012
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

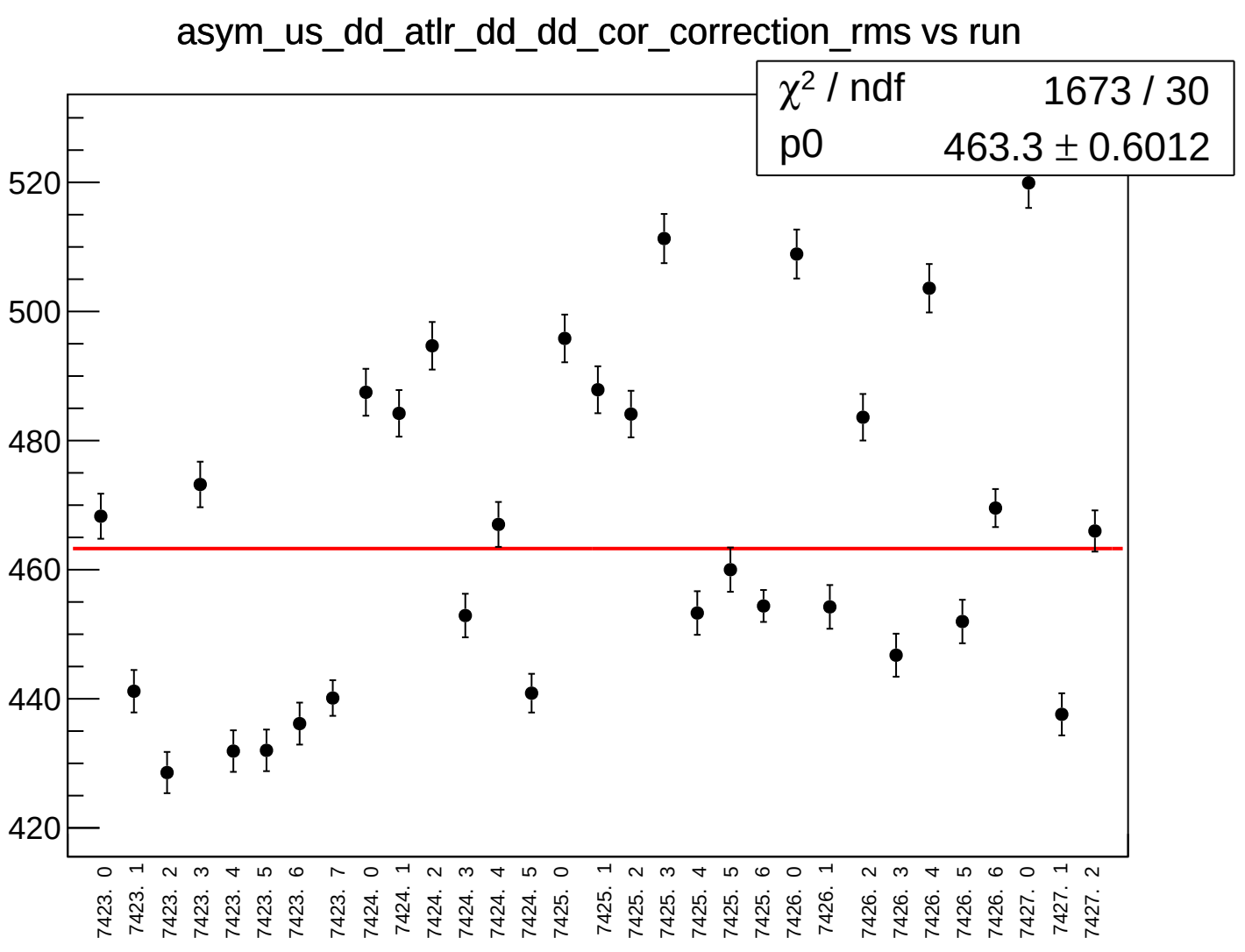

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 21.01 / 30
p0 −3909 ± 1877
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −86.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

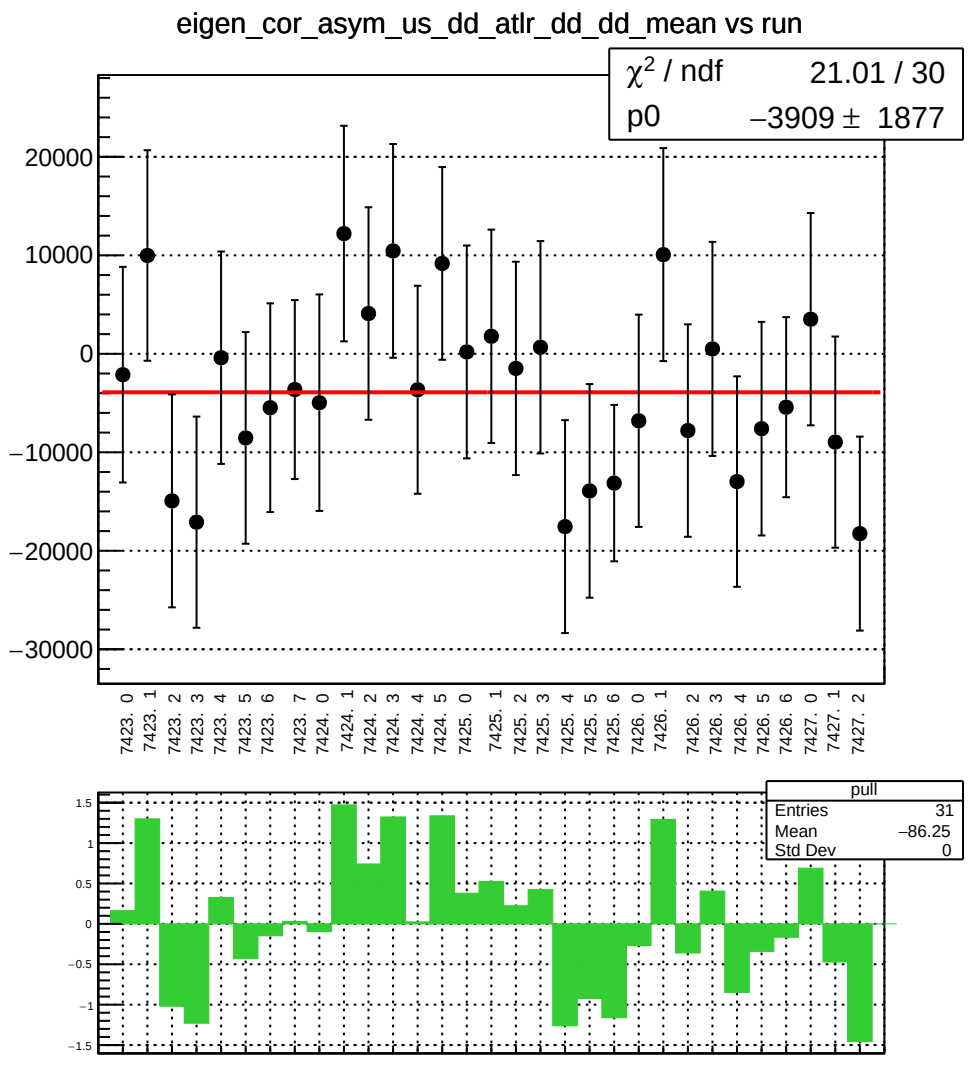

pull1D
Entries 31
Mean 0.01548
Std Dev 0.8231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

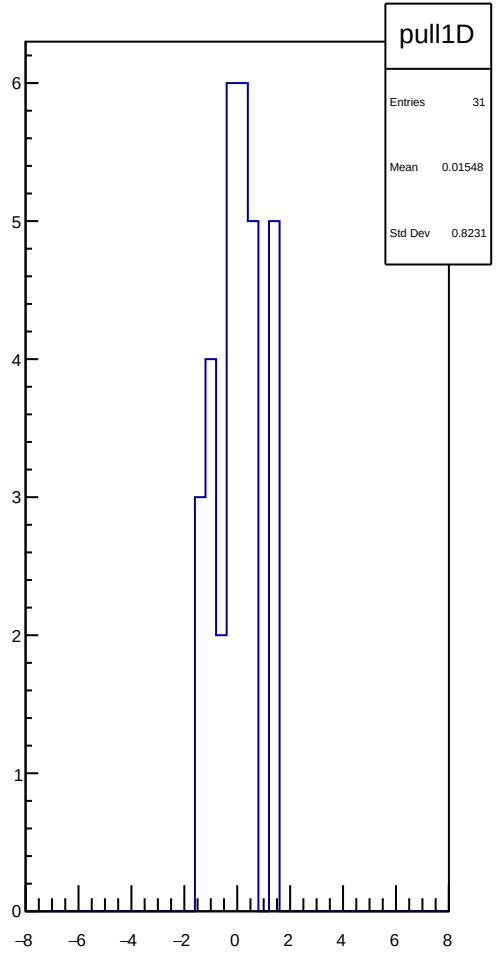

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 41.34 / 30
p0 1024 ± 1.327
1050
1040
1030
1020
1010
1000
990
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

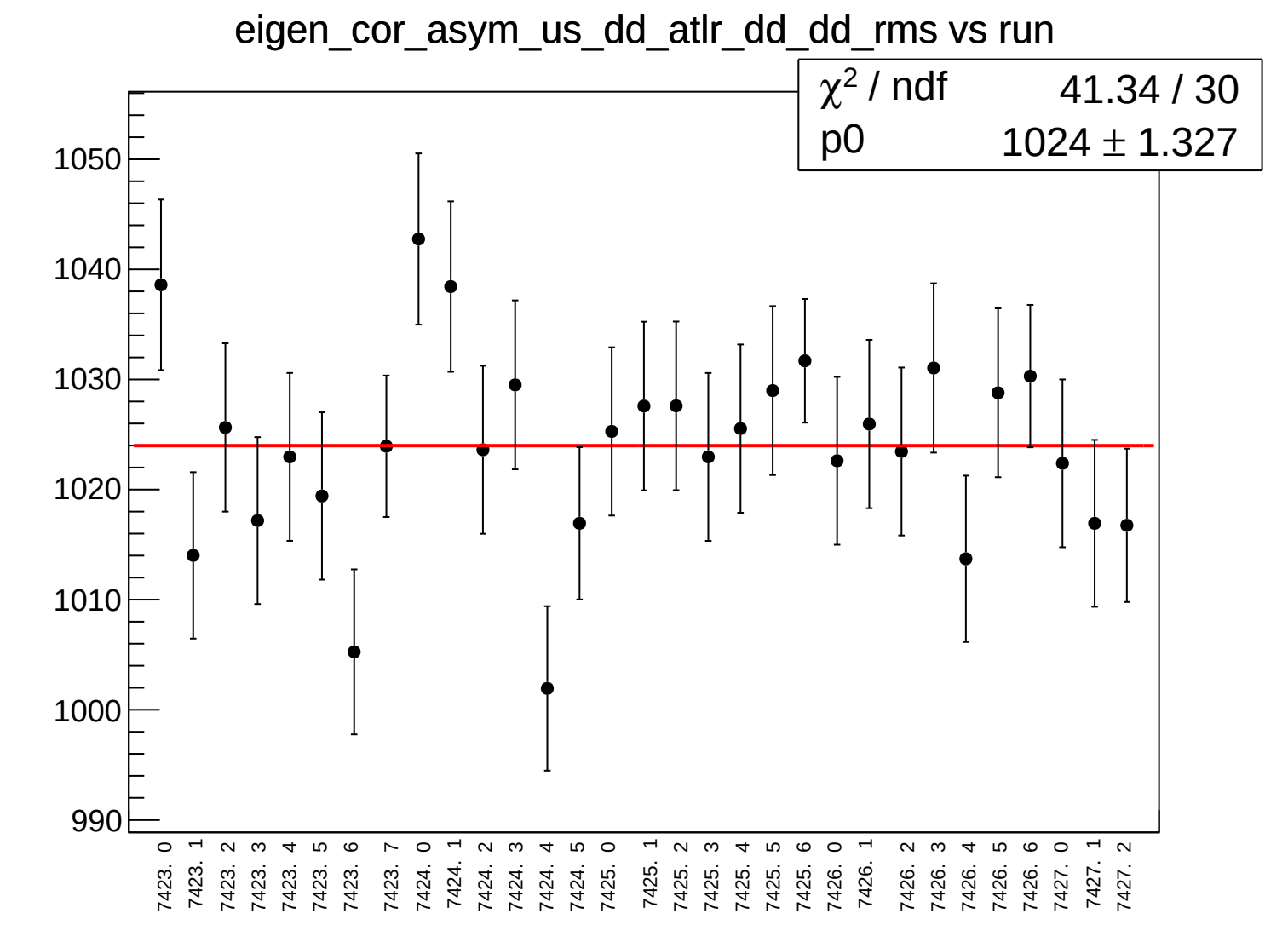

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 22.16 / 30
p0 1330 ± 850.2
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −149.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.0075
Std Dev 0.8455
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1673 / 30
p0 463.3 ± 0.6012
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 21.01 / 30
p0 −3909 ± 1877
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −86.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean 0.01548
Std Dev 0.8231
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 41.34 / 30
p0 1024 ± 1.327
1050
1040
1030
1020
1010
1000
990
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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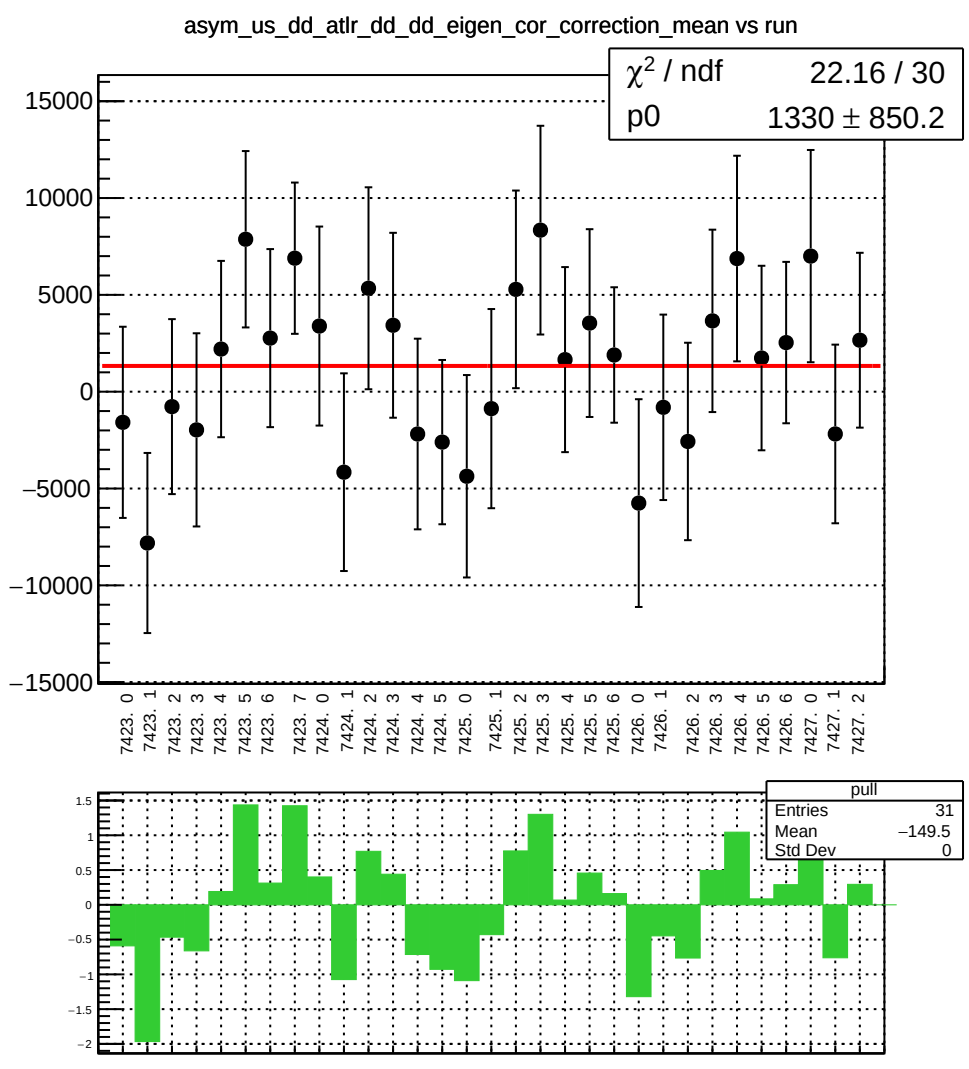
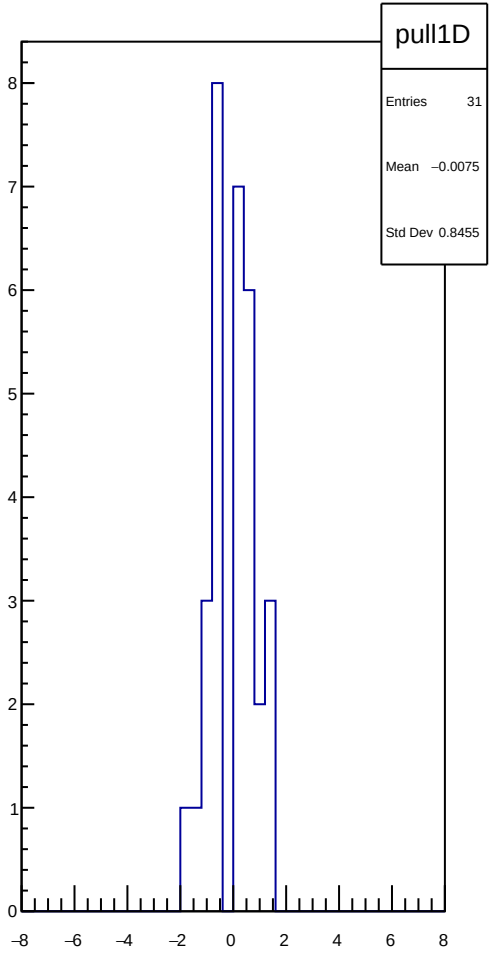
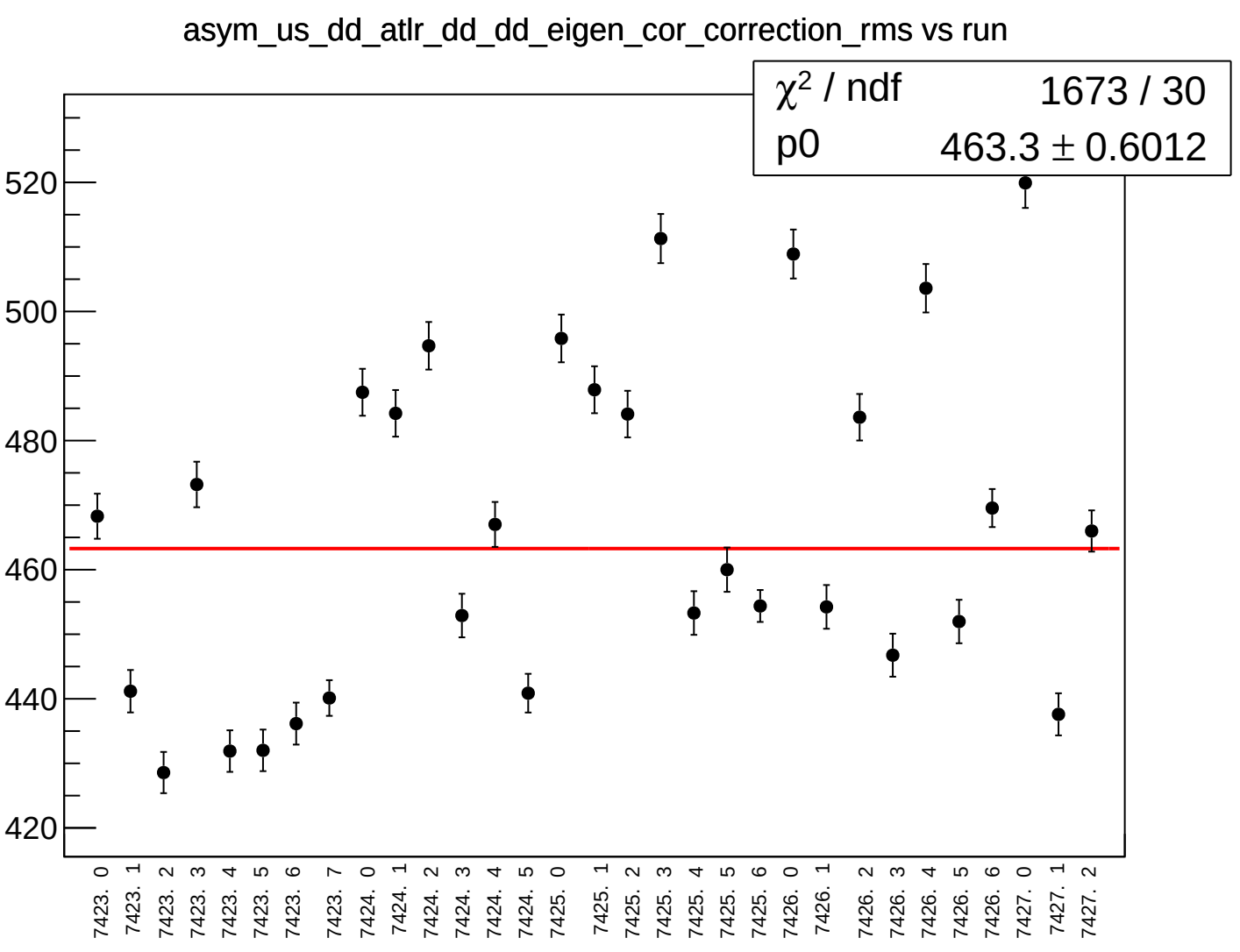
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 22.16 / 30
p0 1330 ± 850.2
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −149.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.0075
Std Dev 0.8455
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1673 / 30
p0 463.3 ± 0.6012
520
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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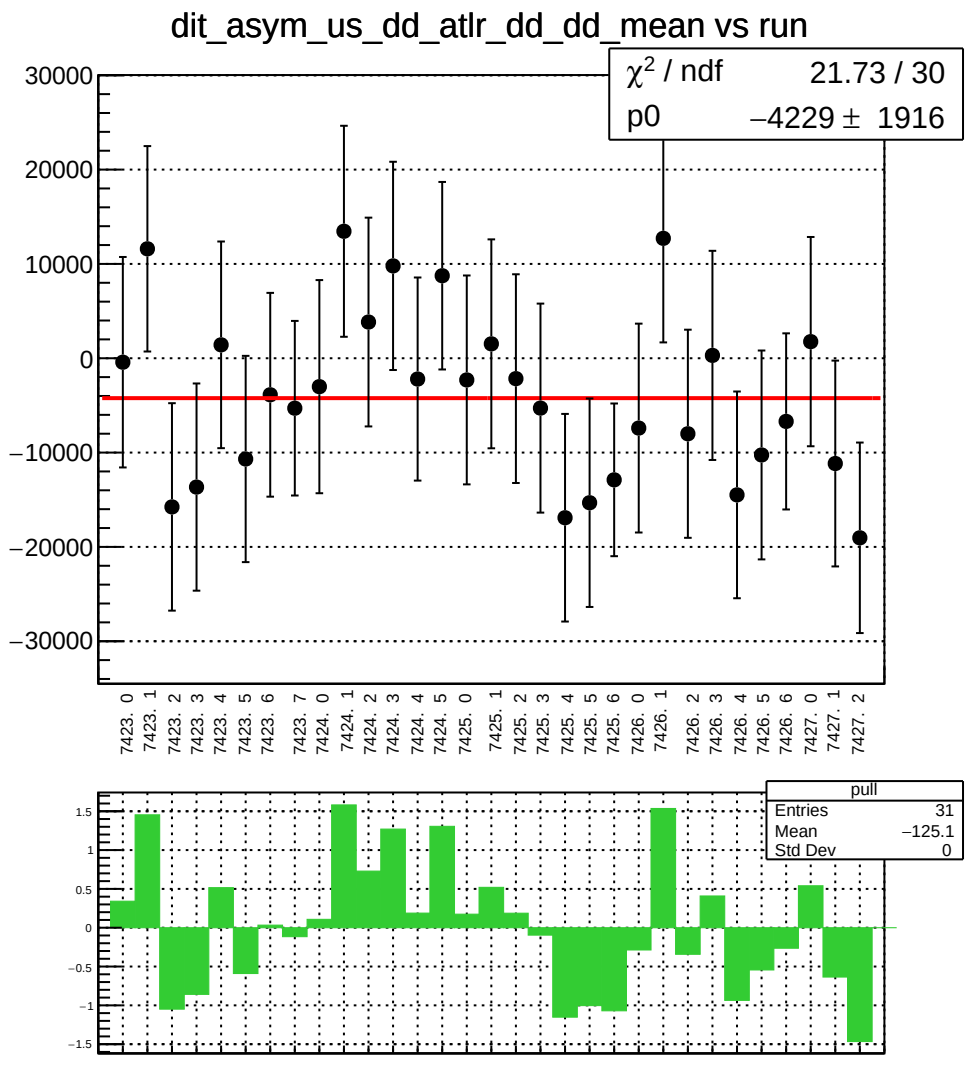
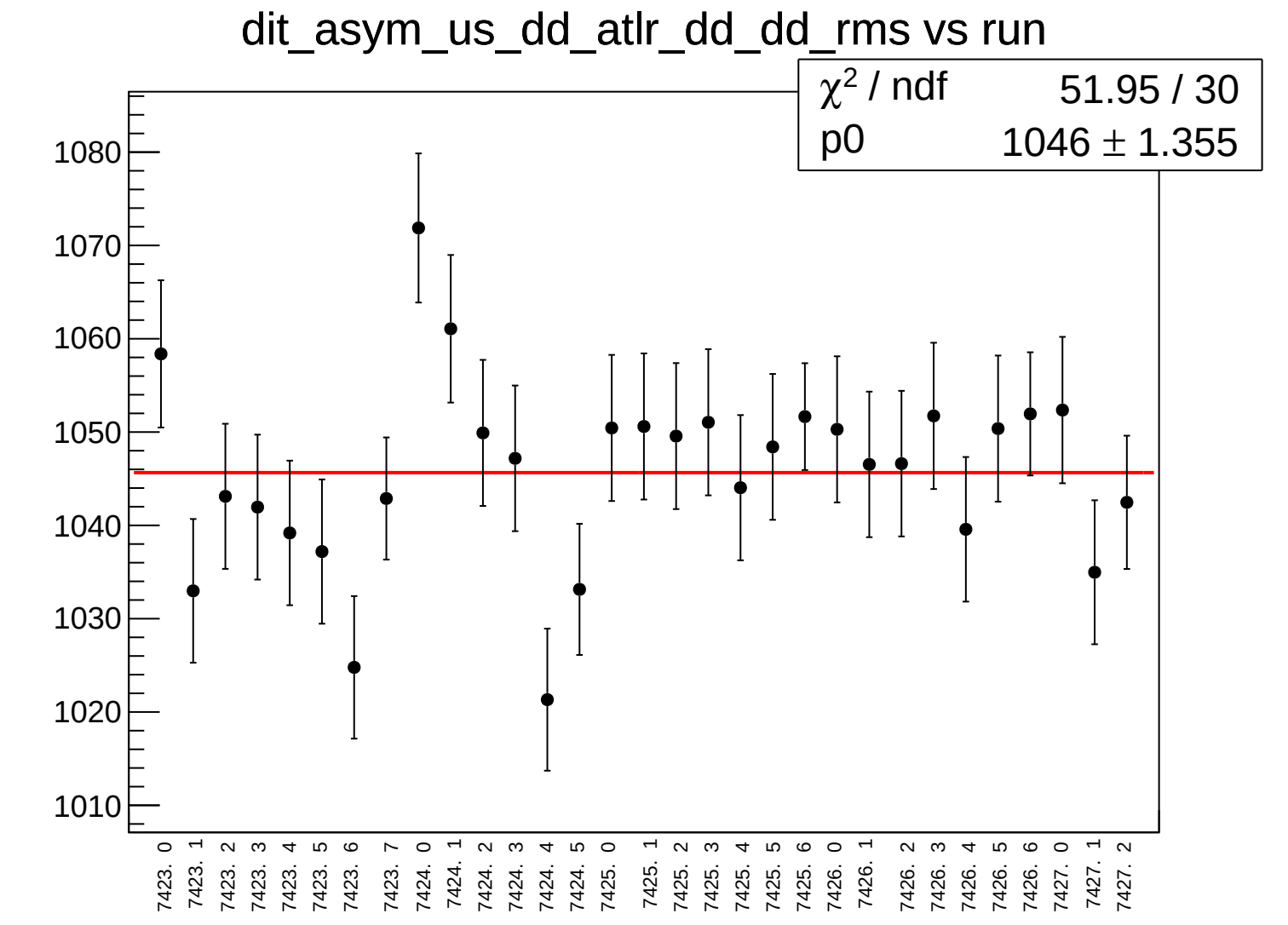
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 21.73 / 30
p0 −4229 ± 1916
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −125.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01566
Std Dev 0.8371
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 51.95 / 30
p0 1046 ± 1.355
1080
1070
1060
1050
1040
1030
1020
1010
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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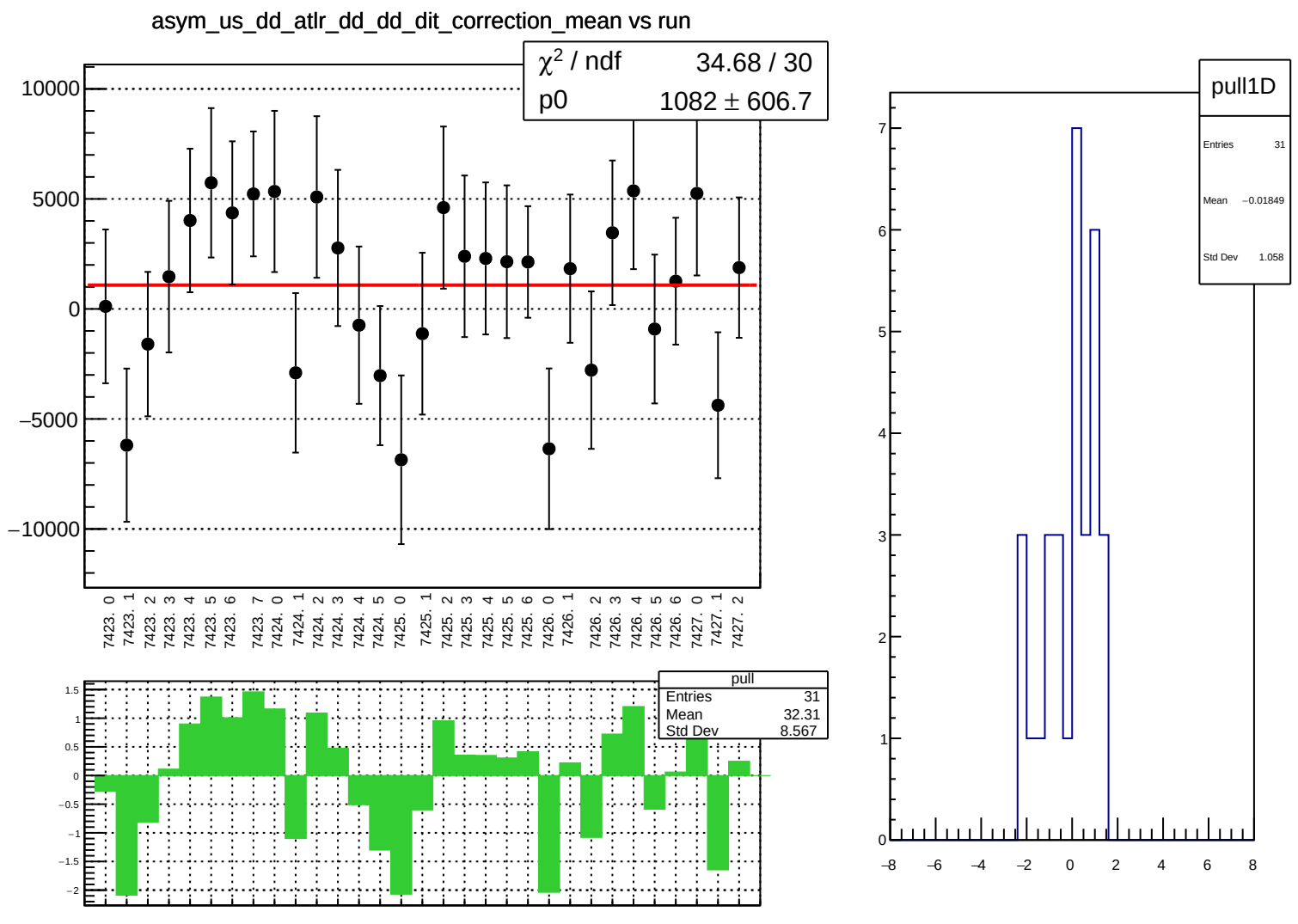
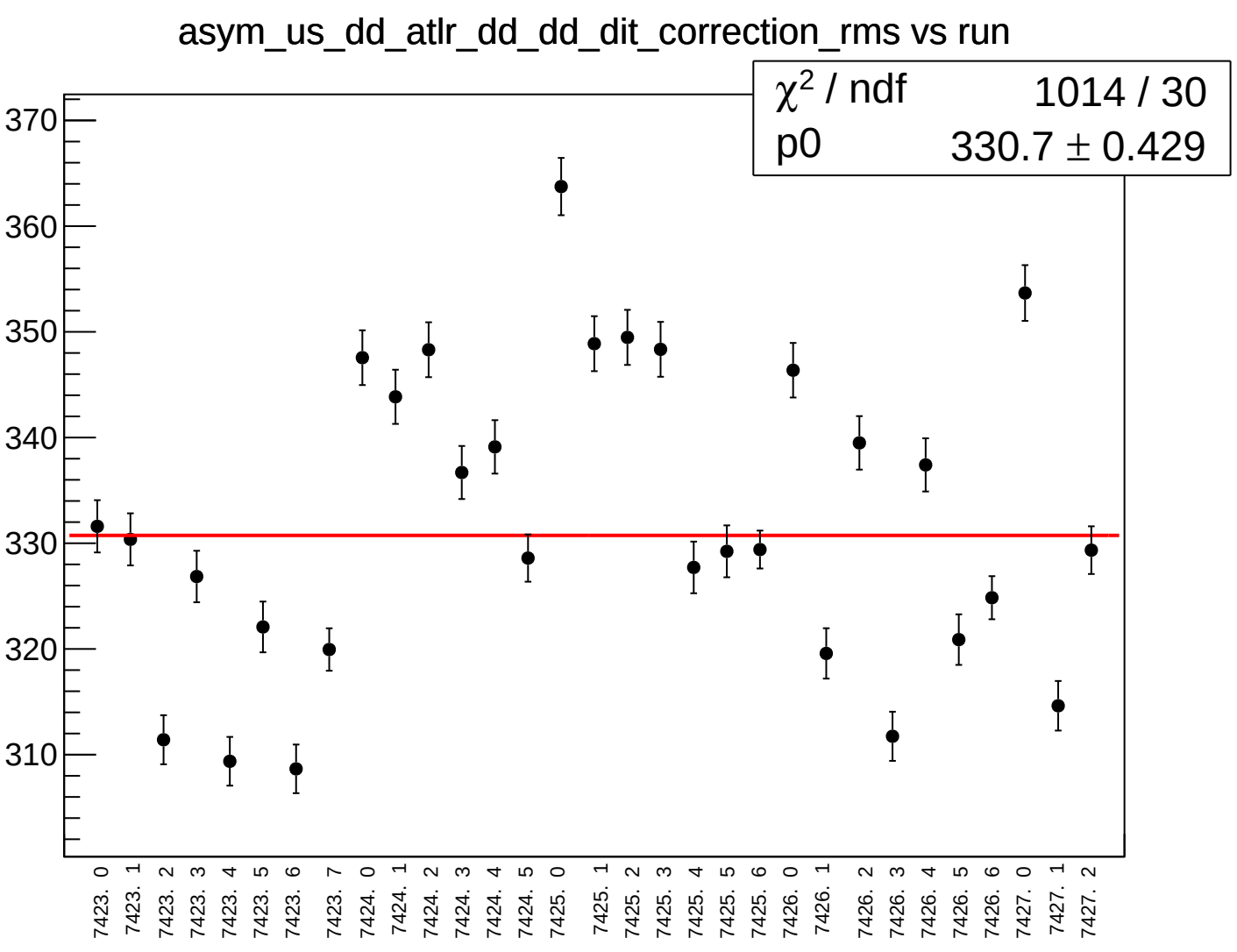
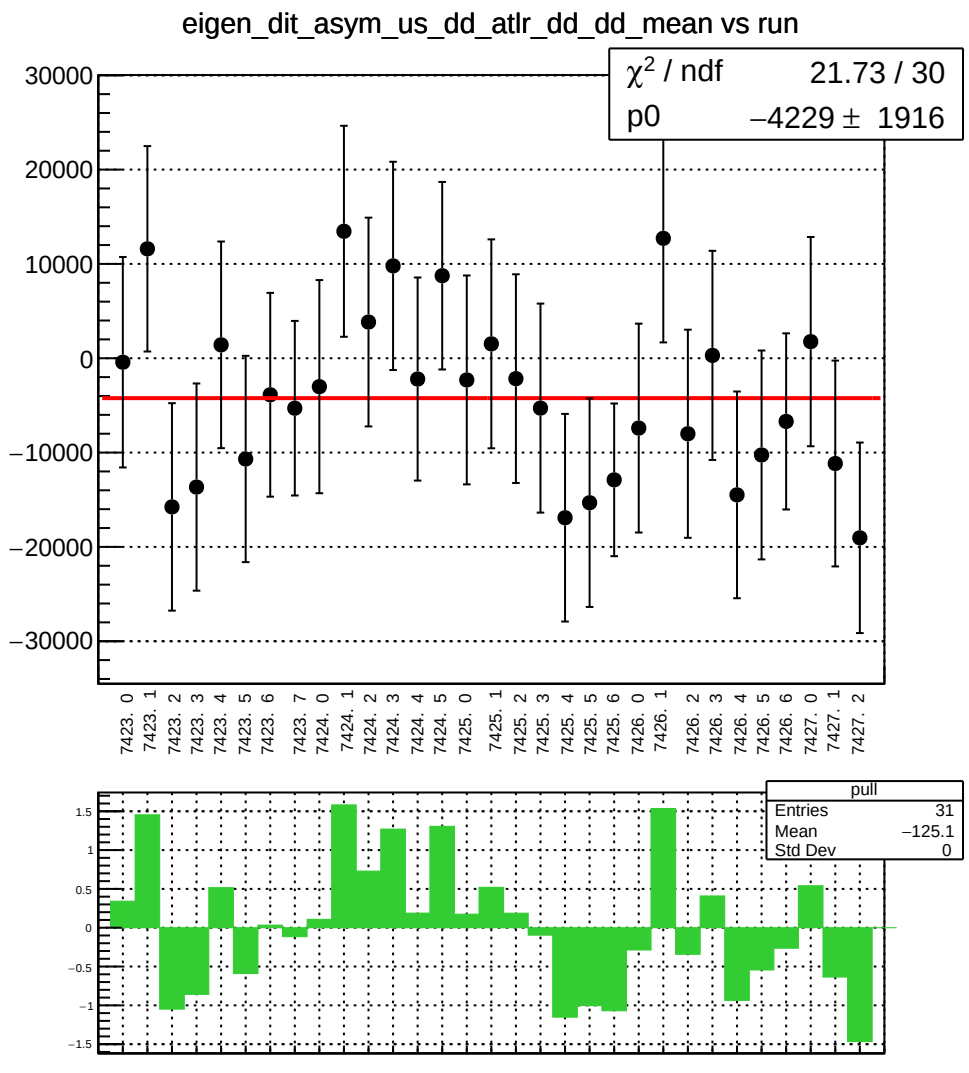
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 34.68 / 30
p0 1082 ± 606.7
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 32.31
Std Dev 8.567
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01849
Std Dev 1.058
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 1014 / 30
p0 330.7 ± 0.429
370
360
350
340
330
320
310
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 21.73 / 30
p0 −4229 ± 1916
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
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7425. 0
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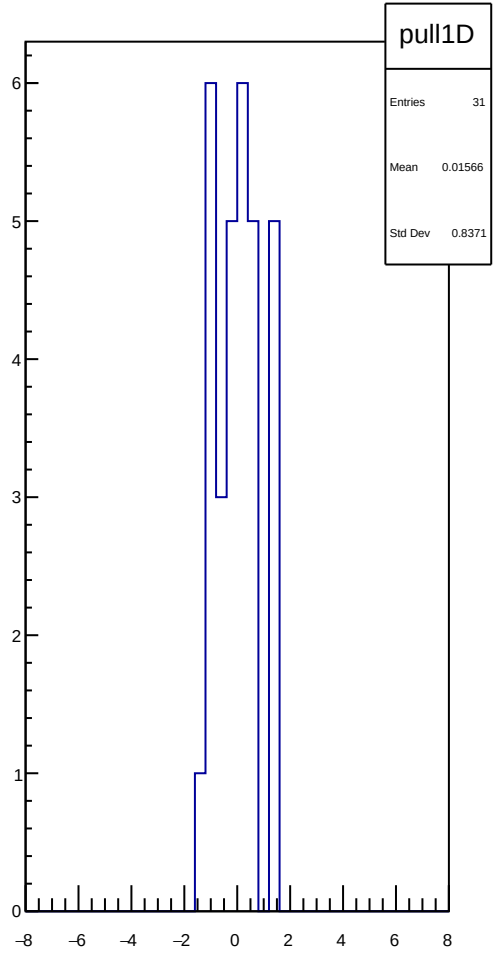
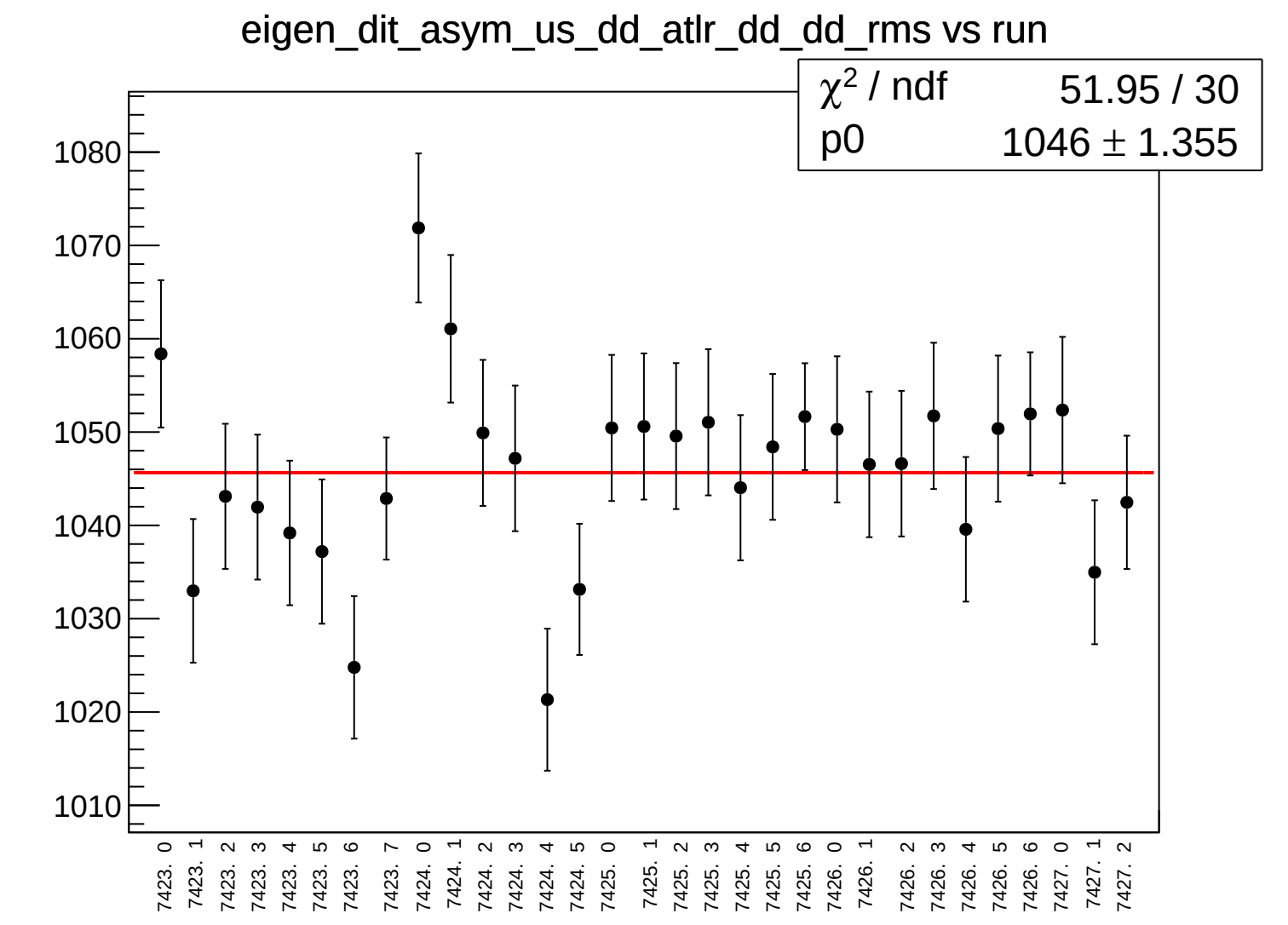
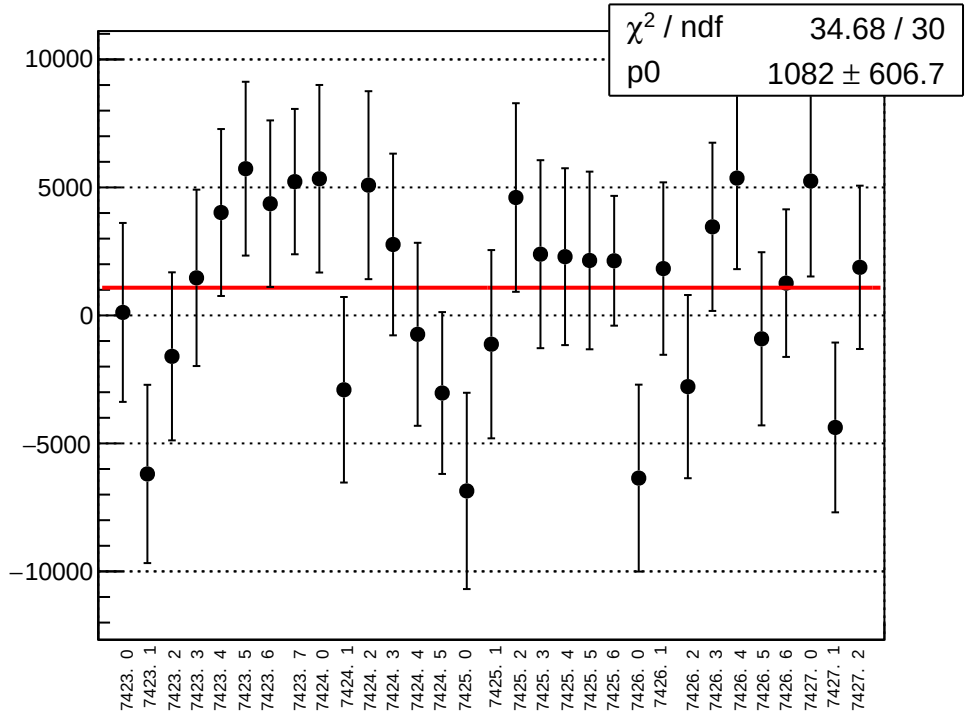
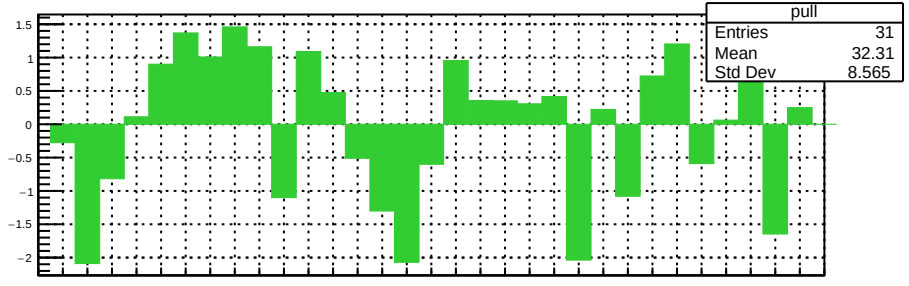
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −125.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

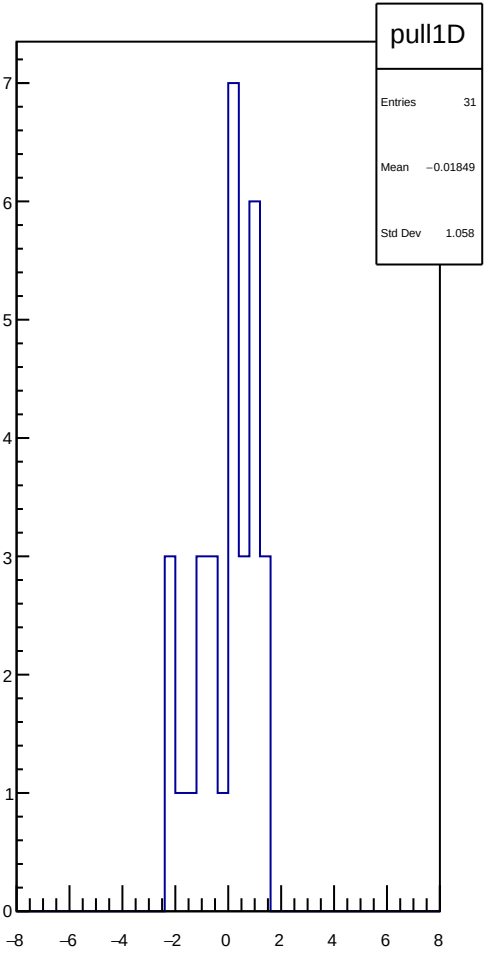

pull1D
Entries 31
Mean 0.01566
Std Dev 0.8371
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

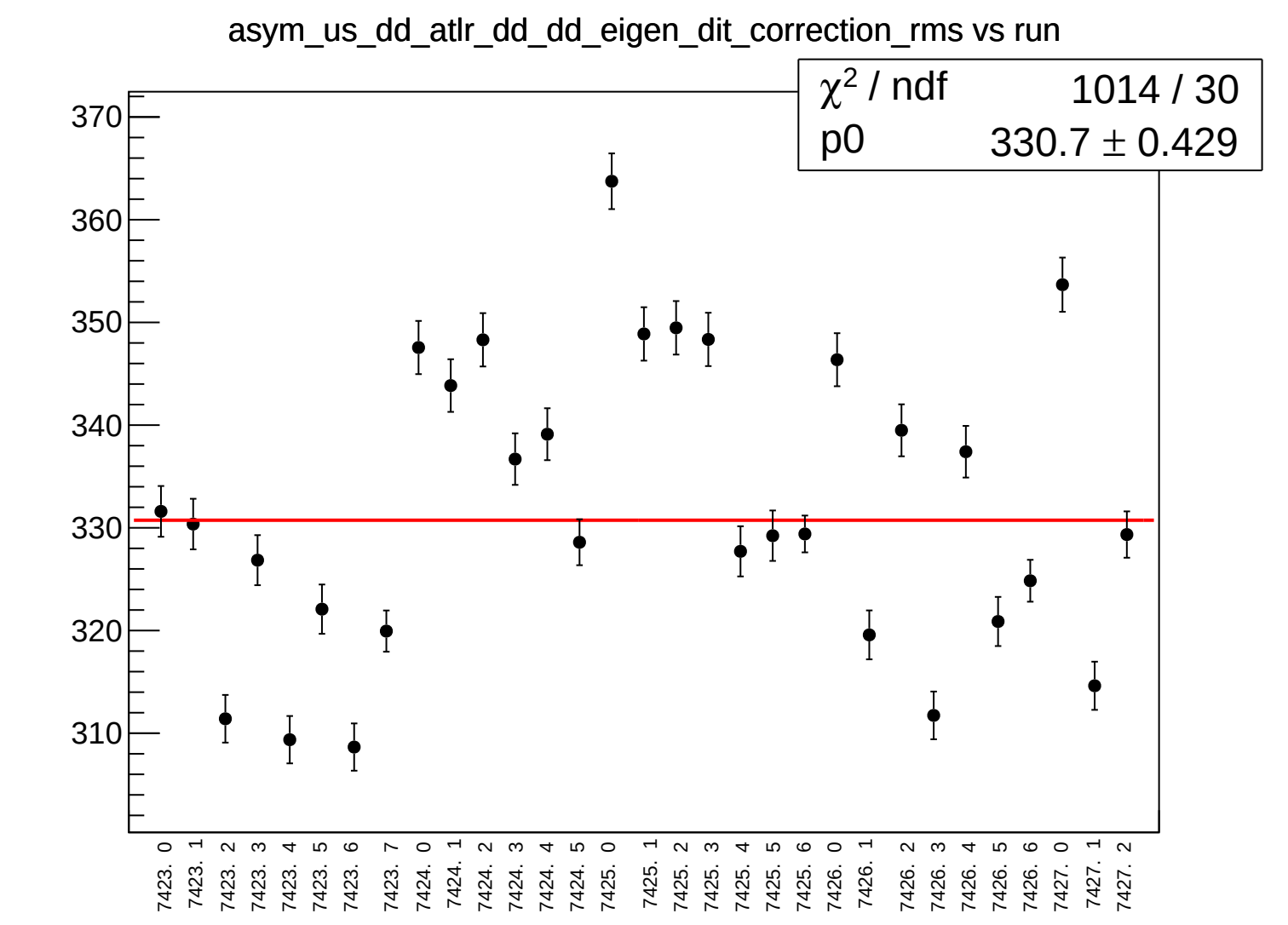

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 51.95 / 30
p0 1046 ± 1.355
1080
1070
1060
1050
1040
1030
1020
1010
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run








asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1014 / 30
p0 330.7 ± 0.429
370
360
350
340
330
320
310
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
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7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
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7426. 2
7426. 3
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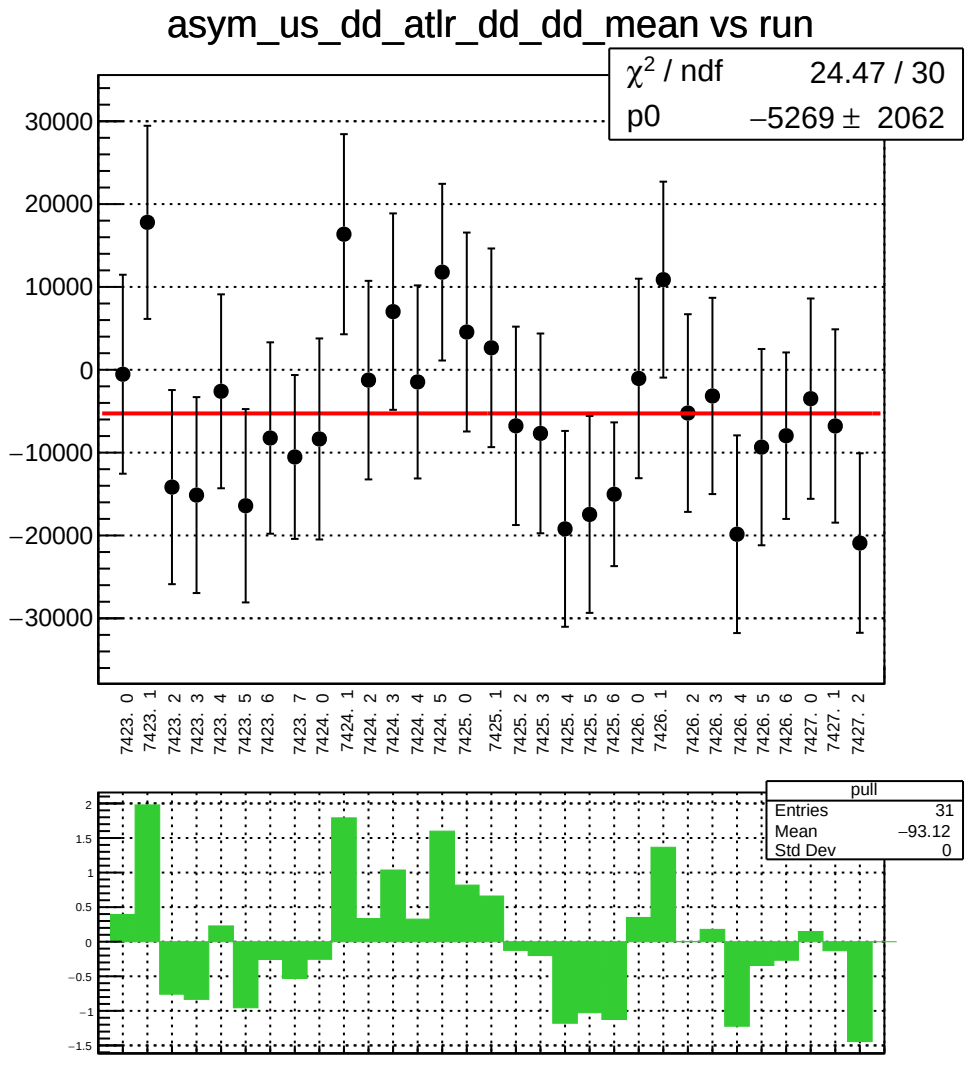
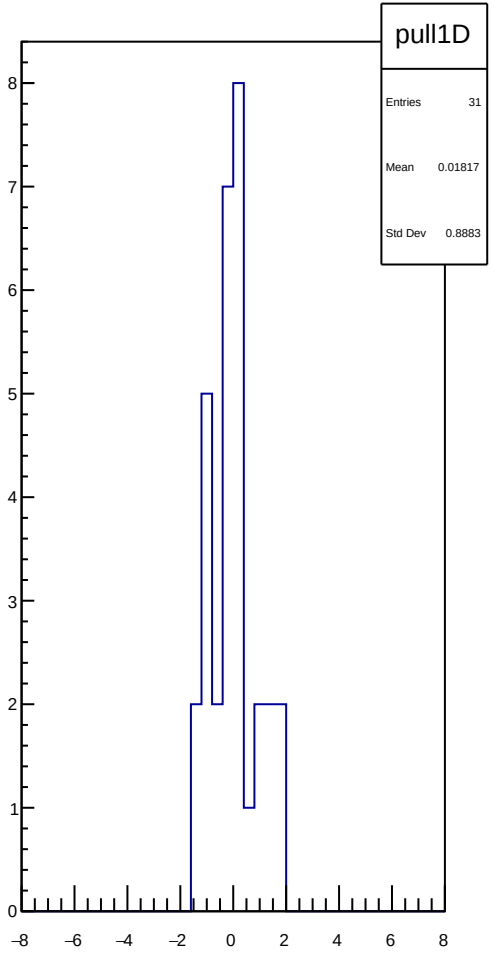
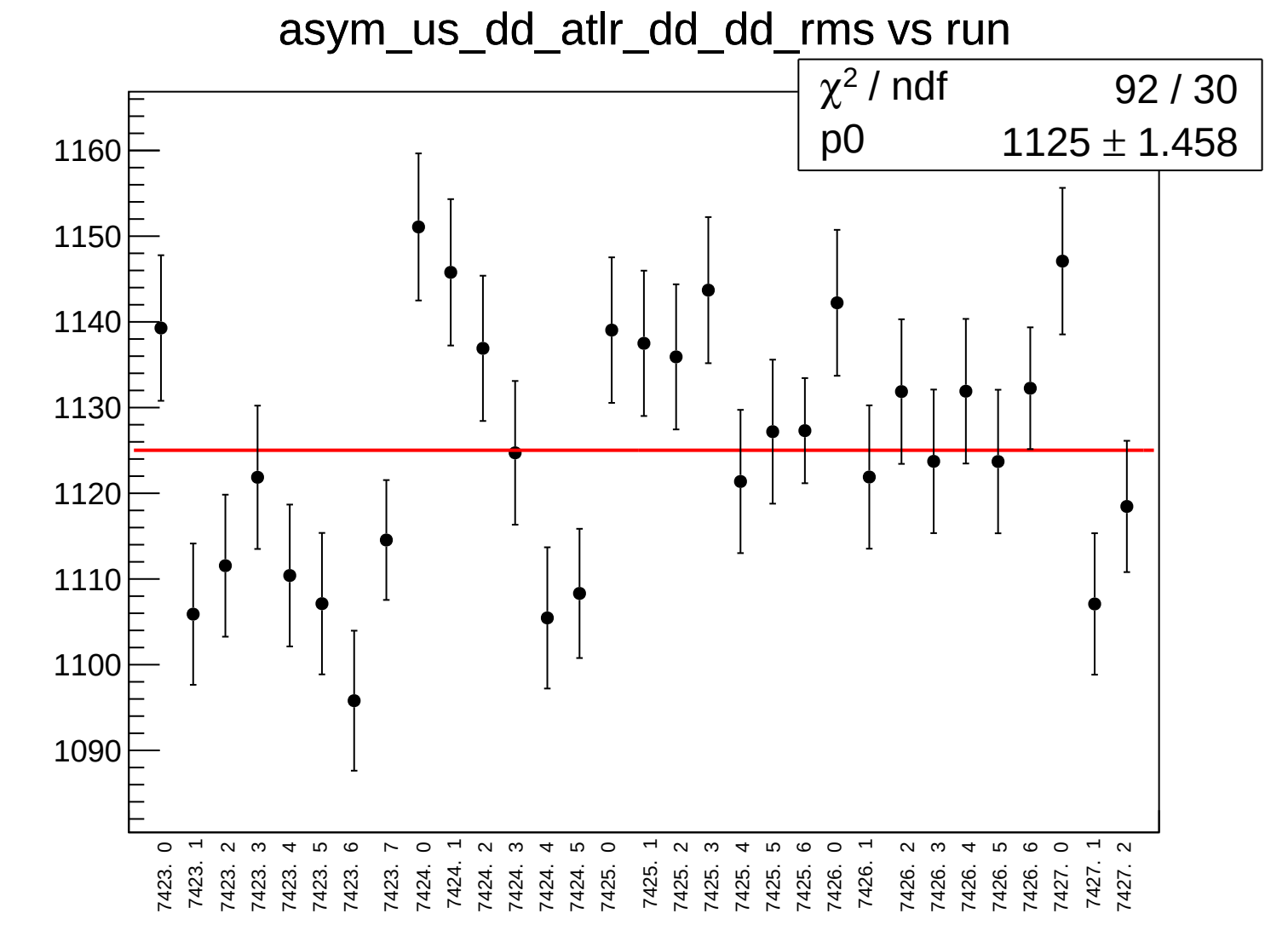
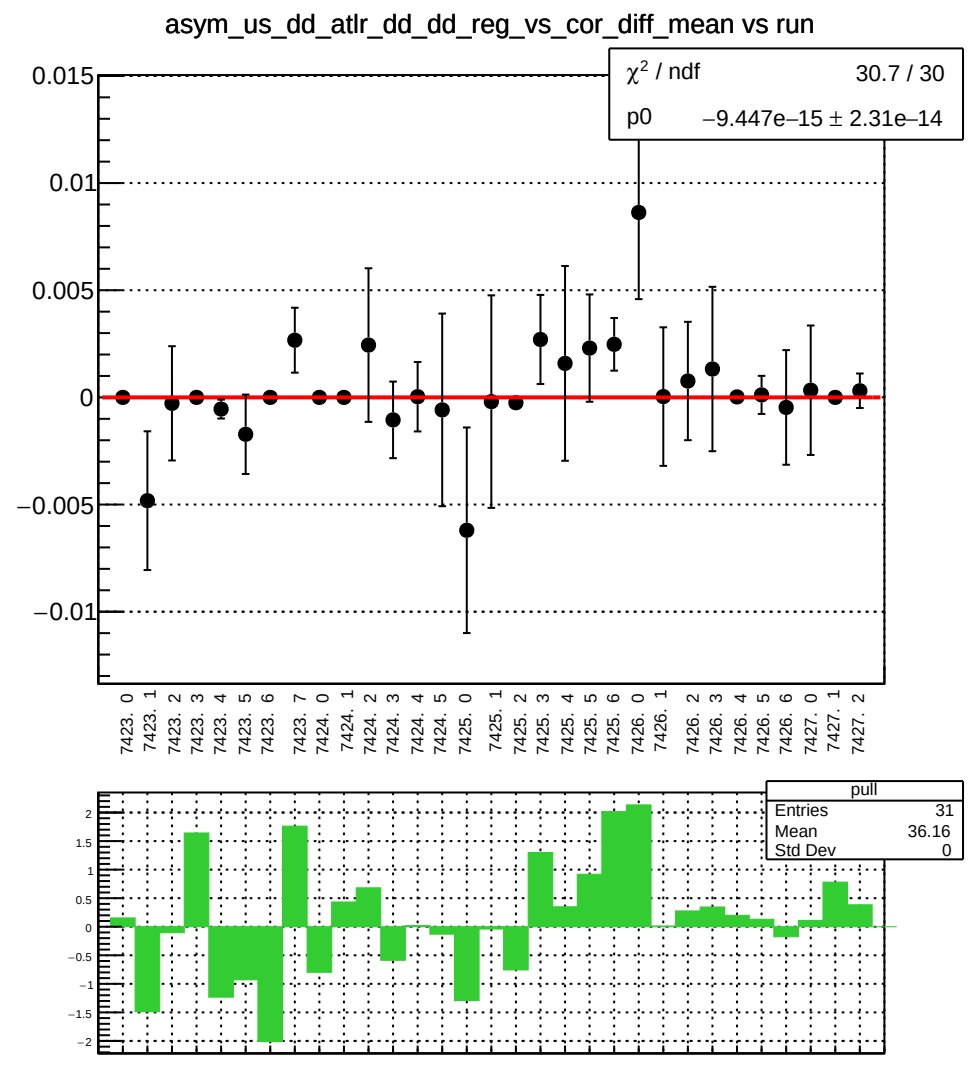
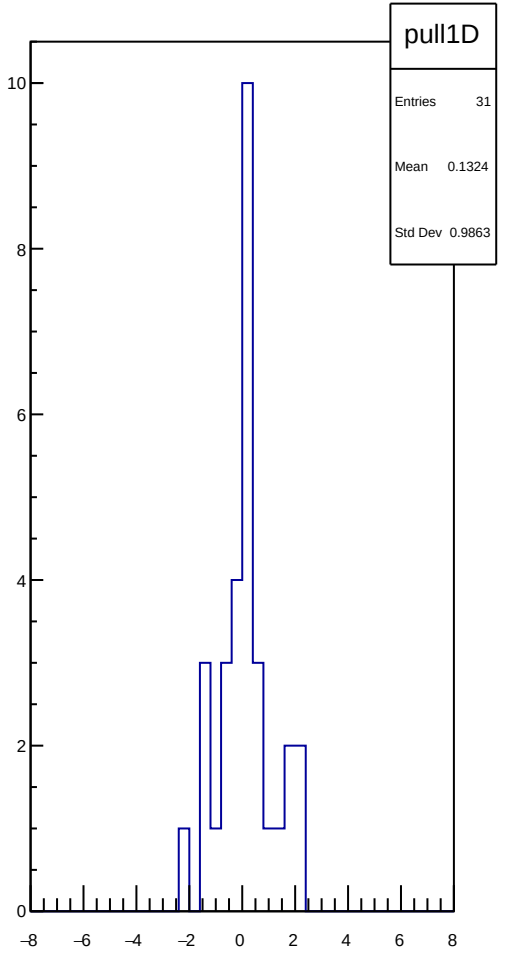
7427. 1
7427. 2

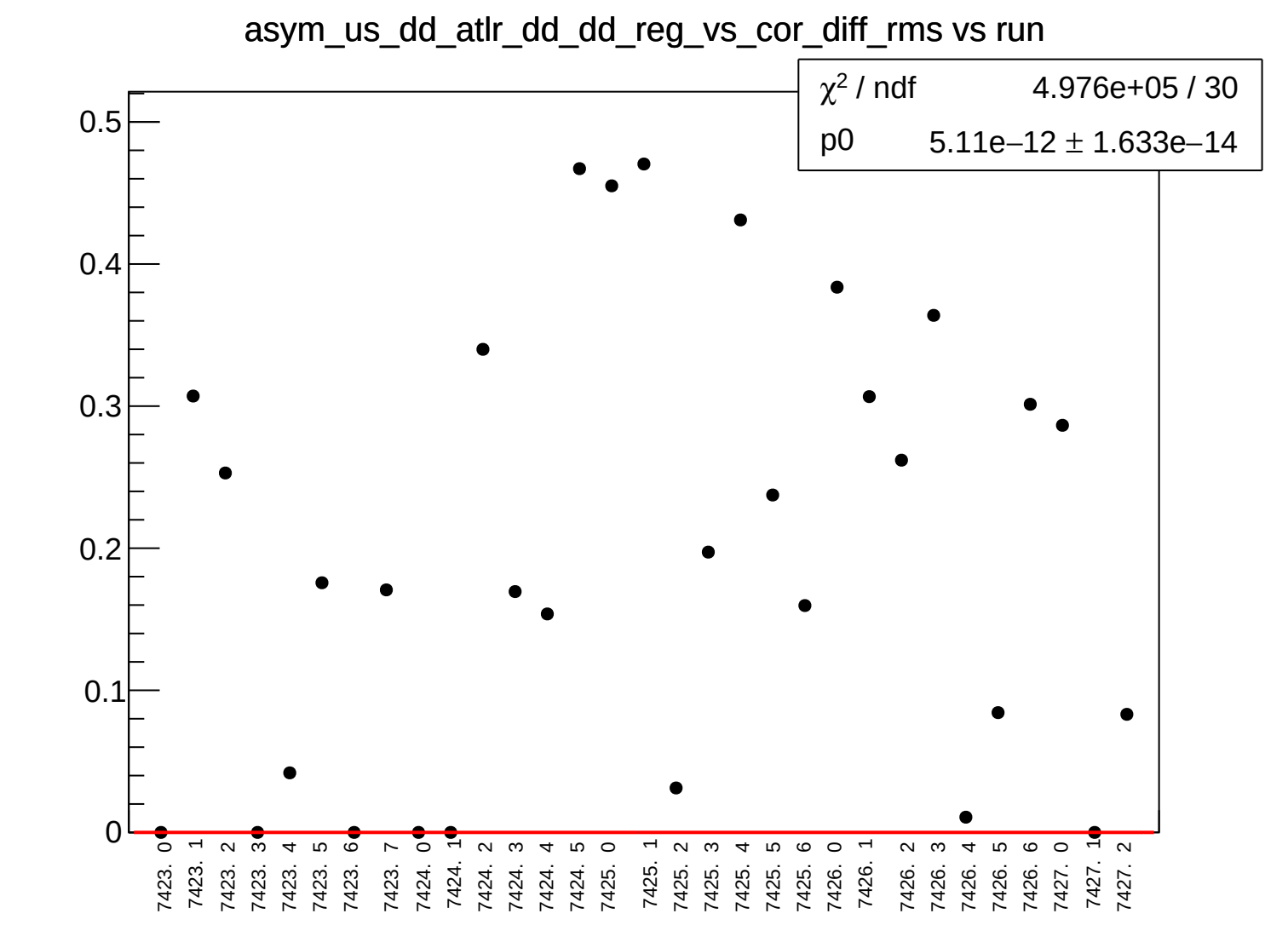

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 24.47 / 30
p0 −5269 ± 2062
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −93.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

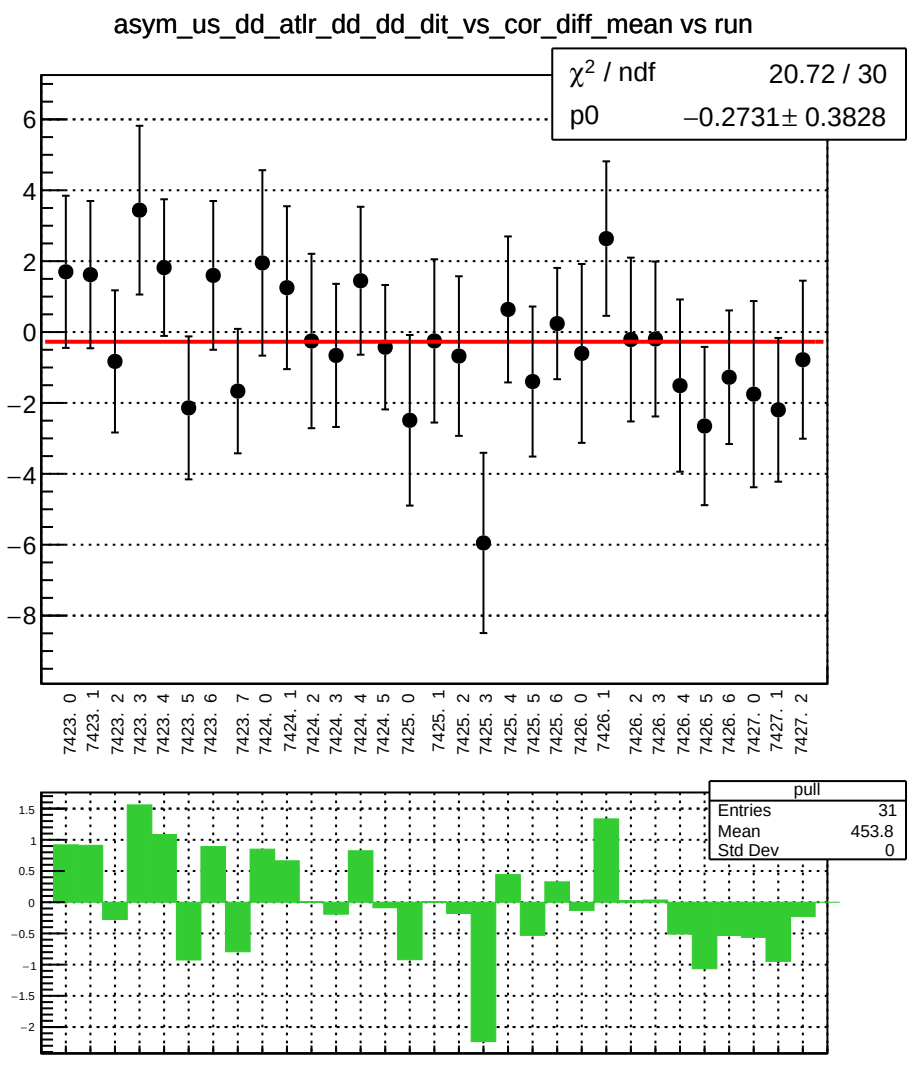

pull1D
Entries 31
Mean 0.01817
Std Dev 0.8883
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

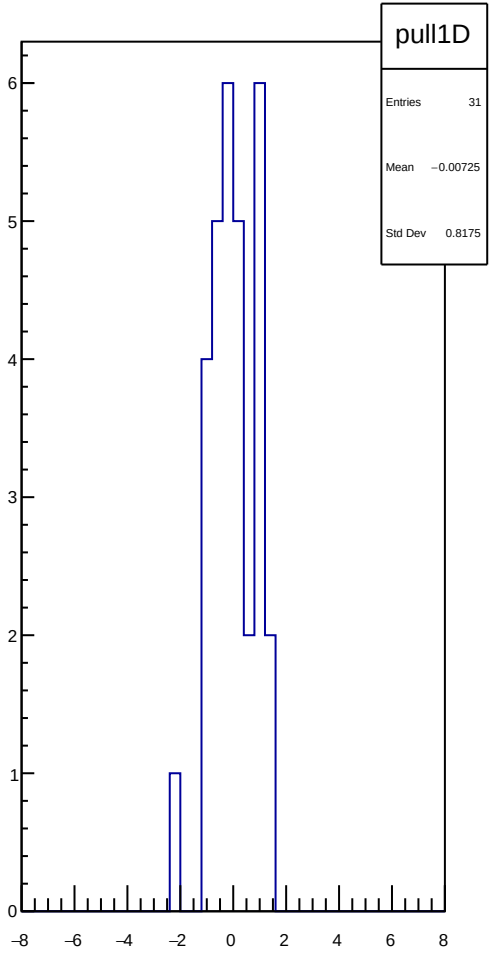

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 92 / 30
p0 1125 ± 1.458
1160
1150
1140
1130
1120
1110
1100
1090
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

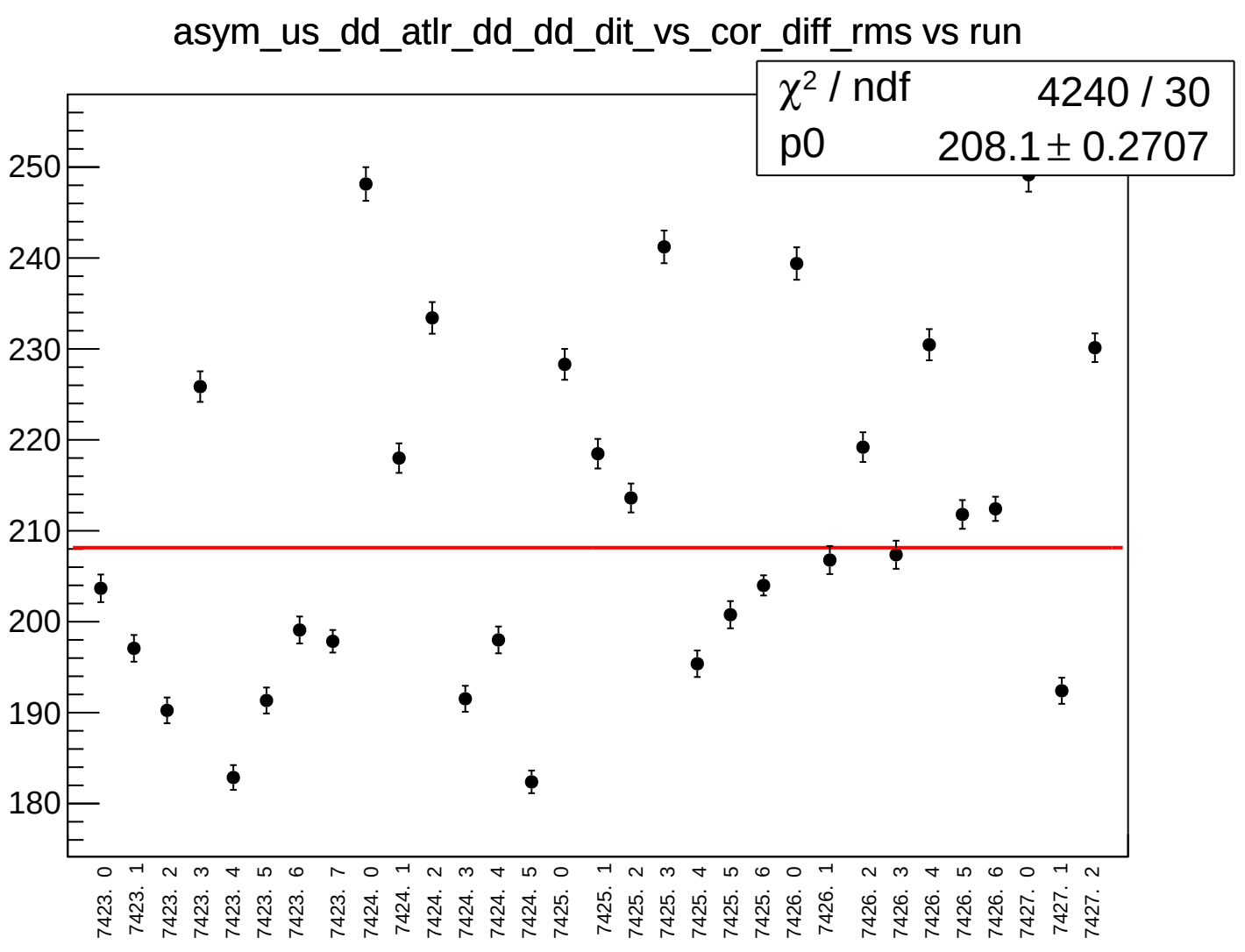

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 30.7 / 30
p0 −9.447e−15 ± 2.31e−14
0.015
0.01
0.005
0
−0.005
−0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 36.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

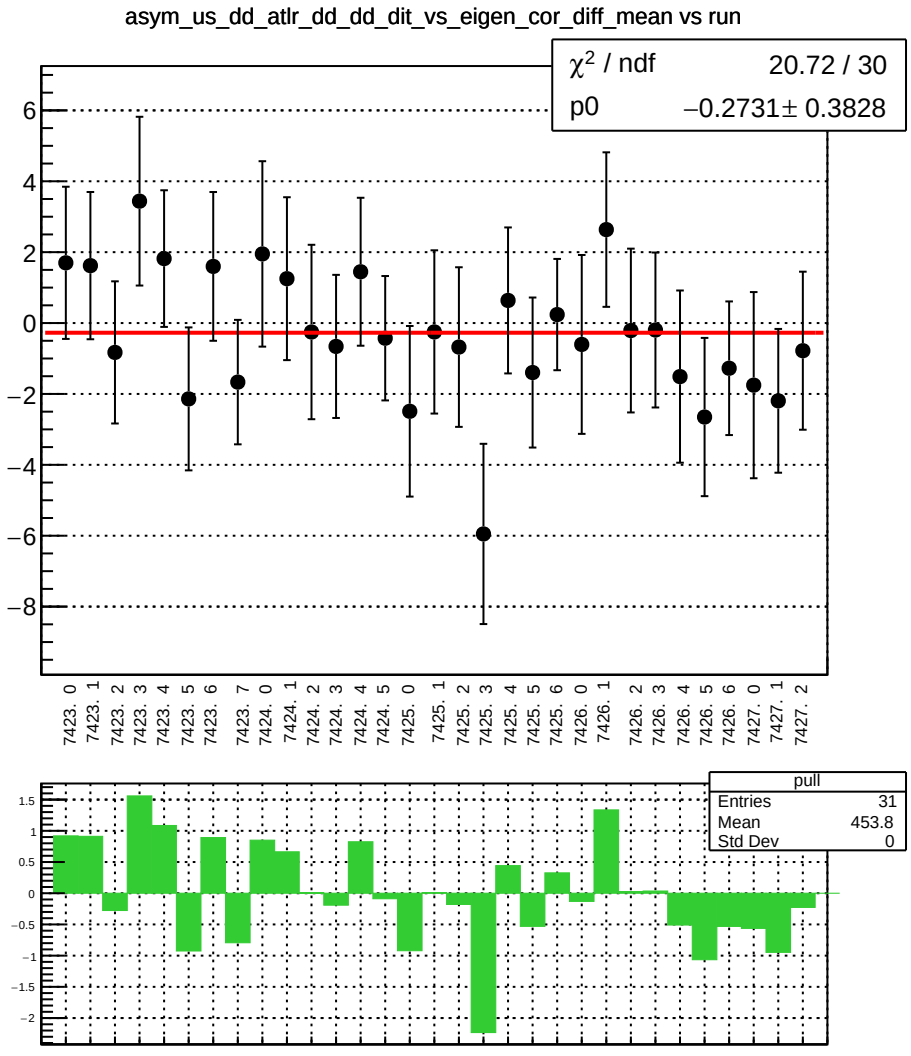

pull1D
Entries 31
Mean 0.1324
Std Dev 0.9863
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

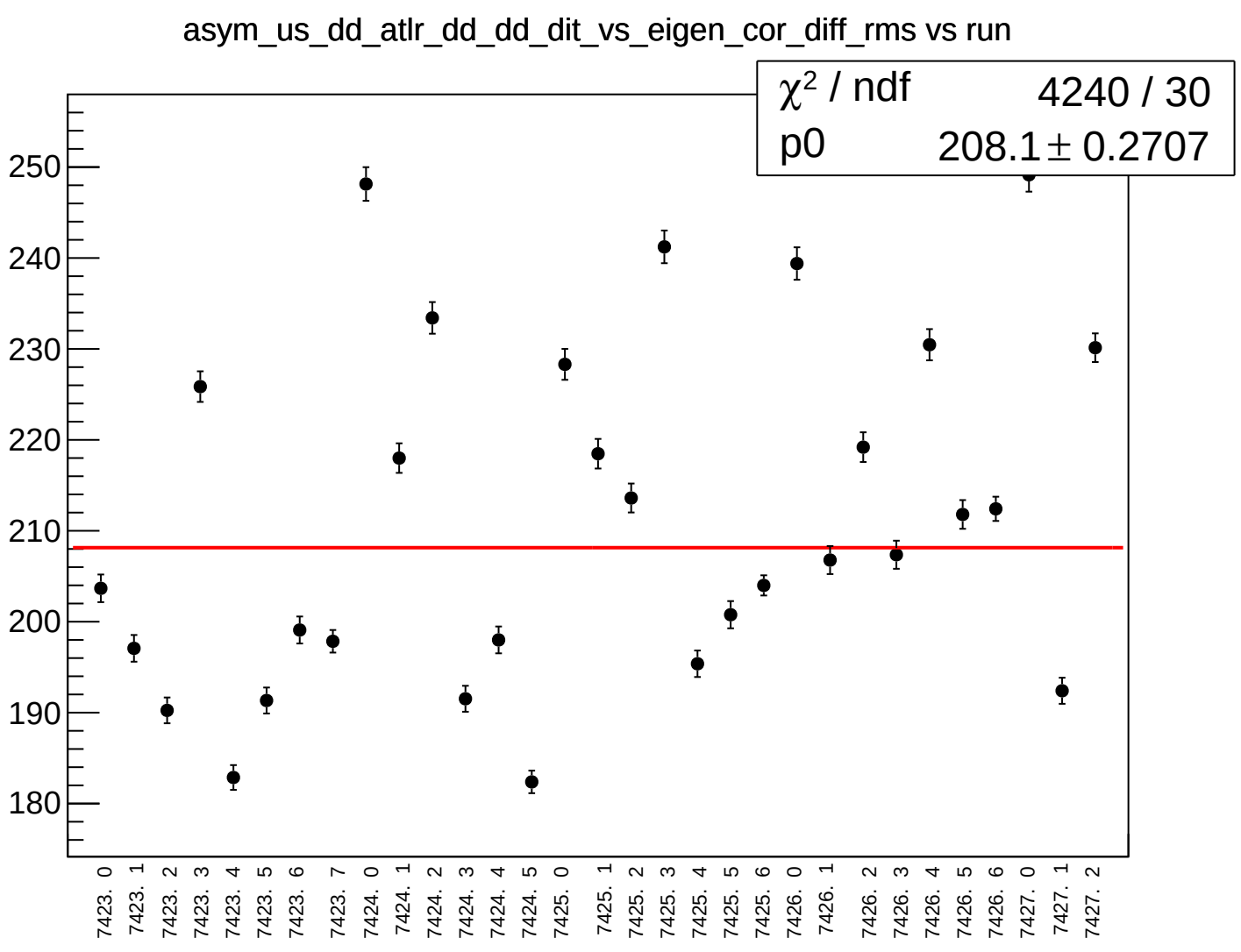

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.976e+05 / 30
p0 5.11e−12 ± 1.633e−14
0.5
0.4
0.3
0.2
0.1
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

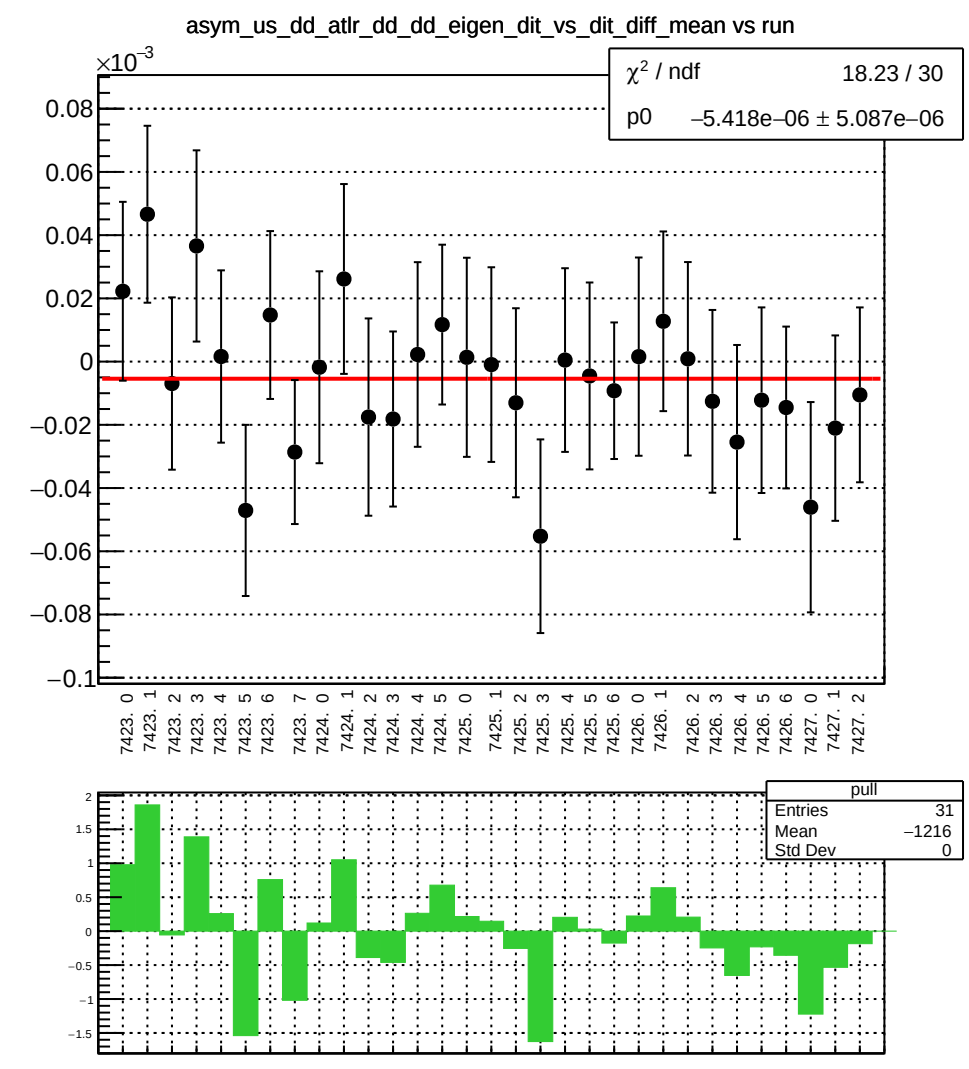

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 20.72 / 30
p0 −0.2731± 0.3828
6
4
2
0
−2
−4
−6
−8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 453.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

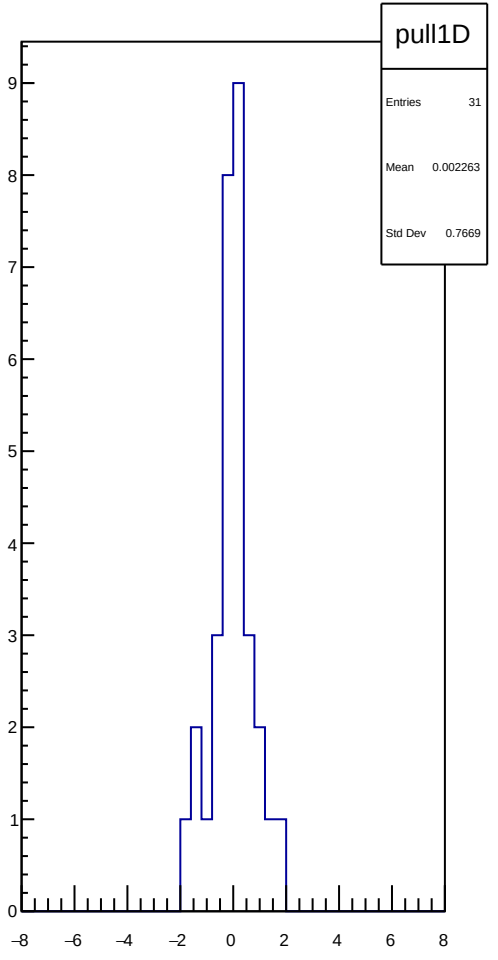

pull1D
Entries 31
Mean −0.00725
Std Dev 0.8175
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

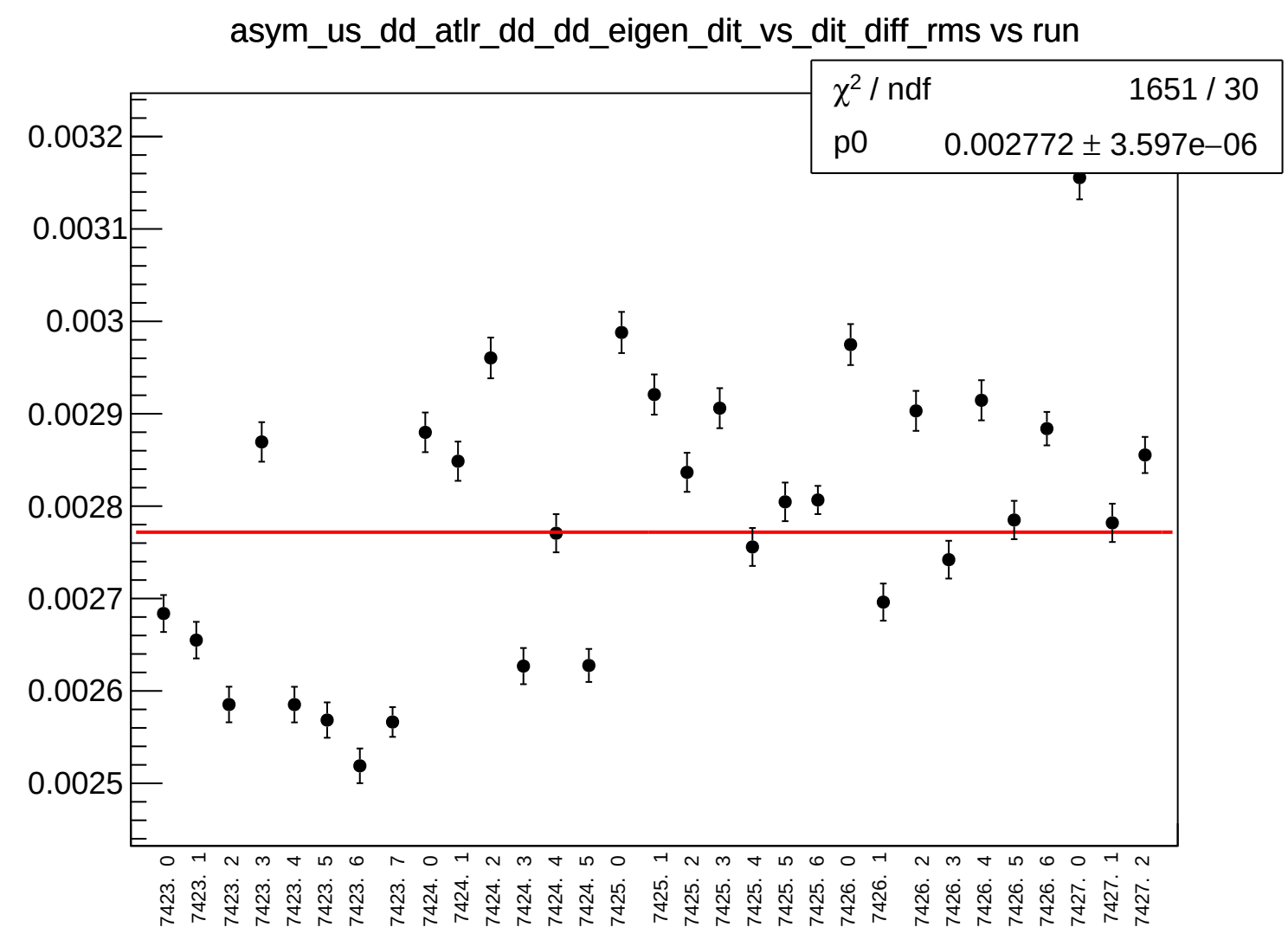

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4240 / 30
p0 208.1 ± 0.2707
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

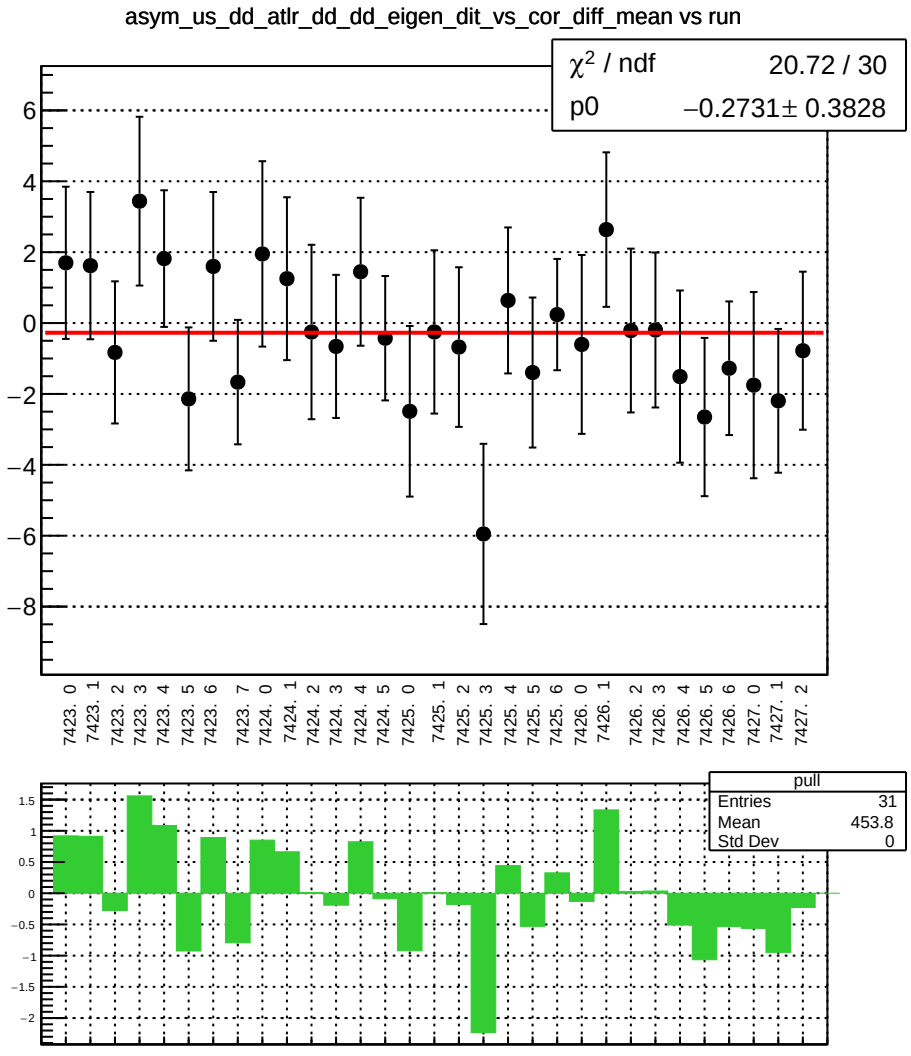

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.72 / 30
p0 −0.2731± 0.3828
pull
Entries 31
Mean 453.8
Std Dev 0
pull1D
Entries 31
Mean −0.00725
Std Dev 0.8175

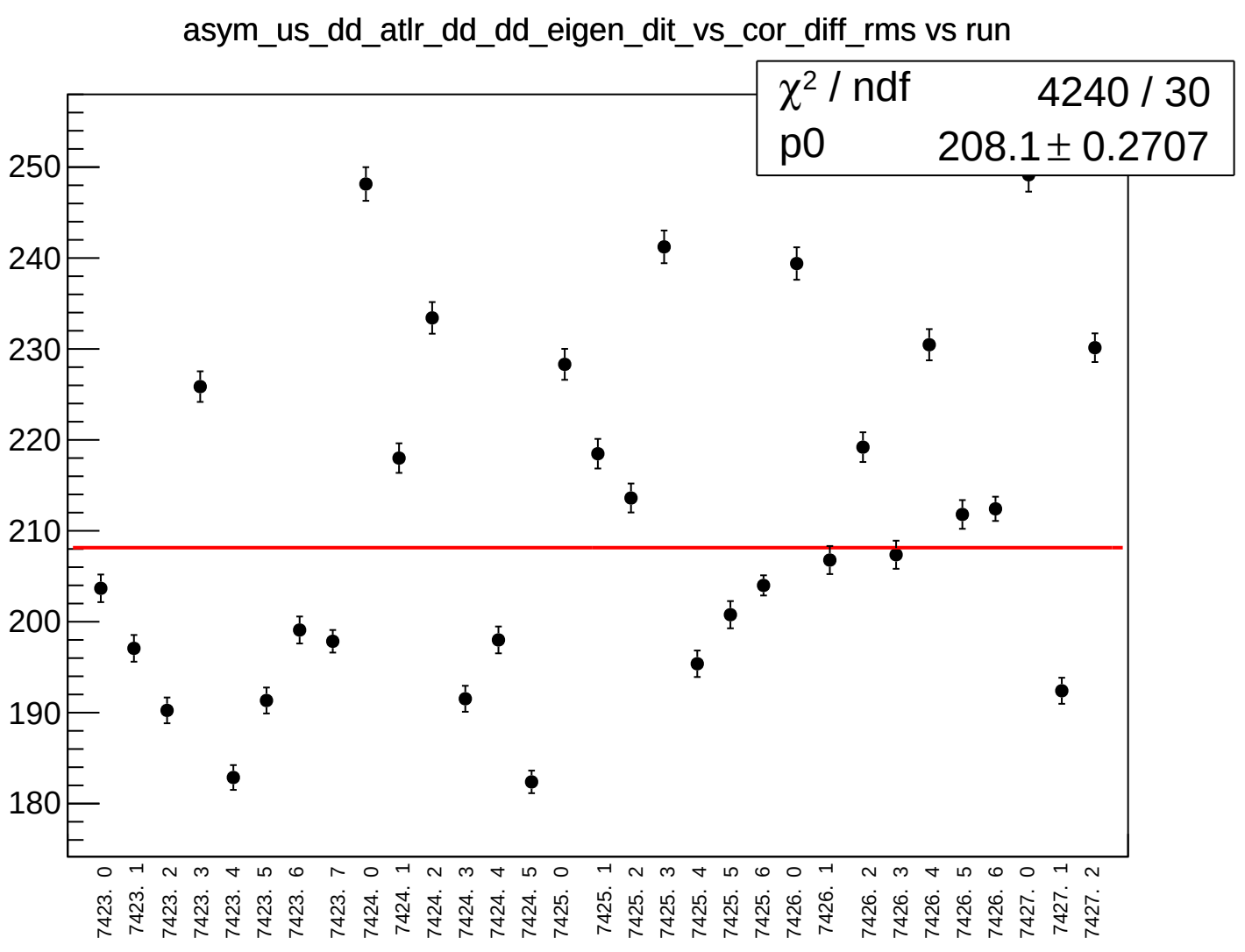

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4240 / 30
p0 208.1 ± 0.2707
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

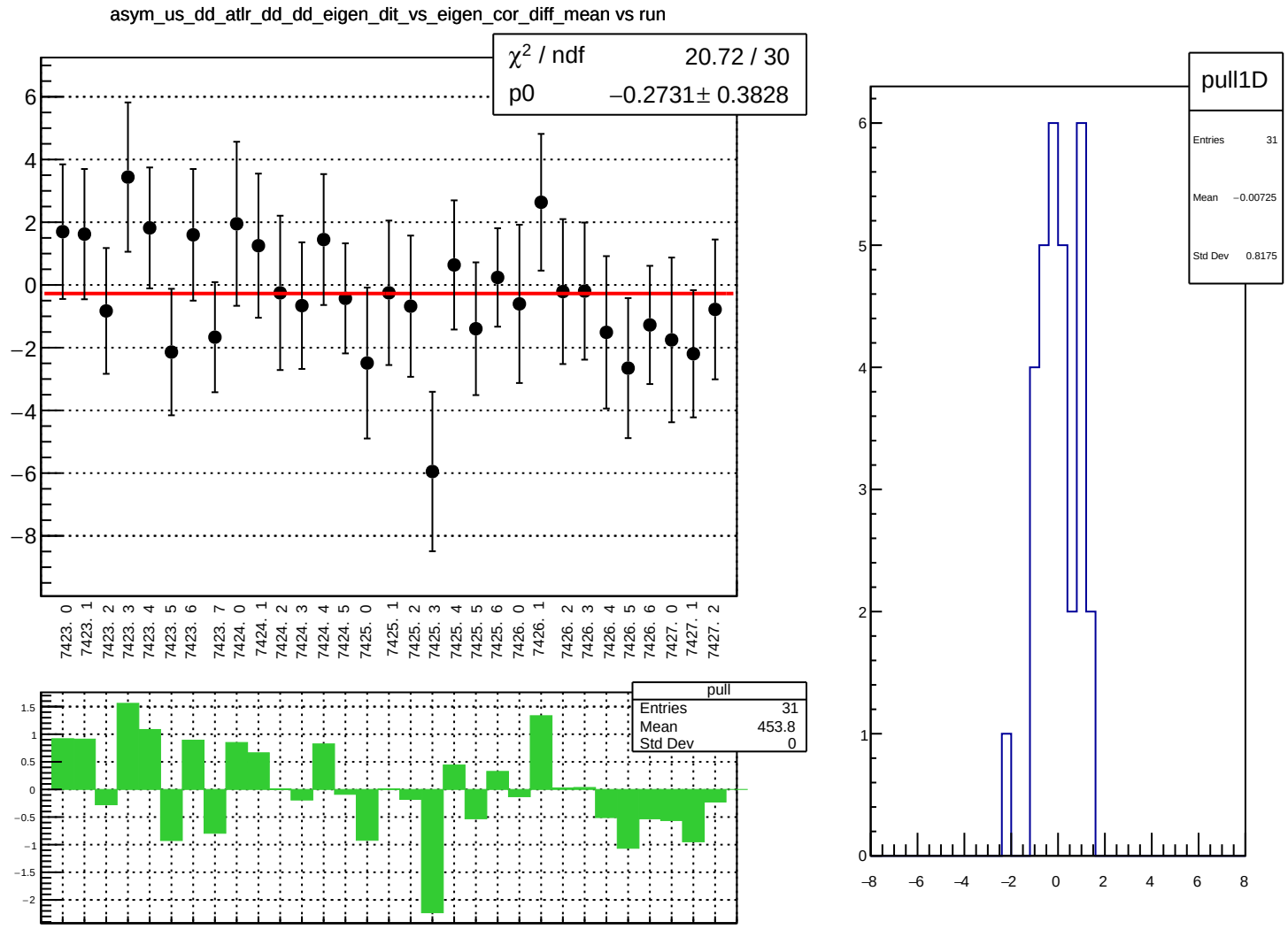

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.23 / 30
p0 −5.418e−06 ± 5.087e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1216
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

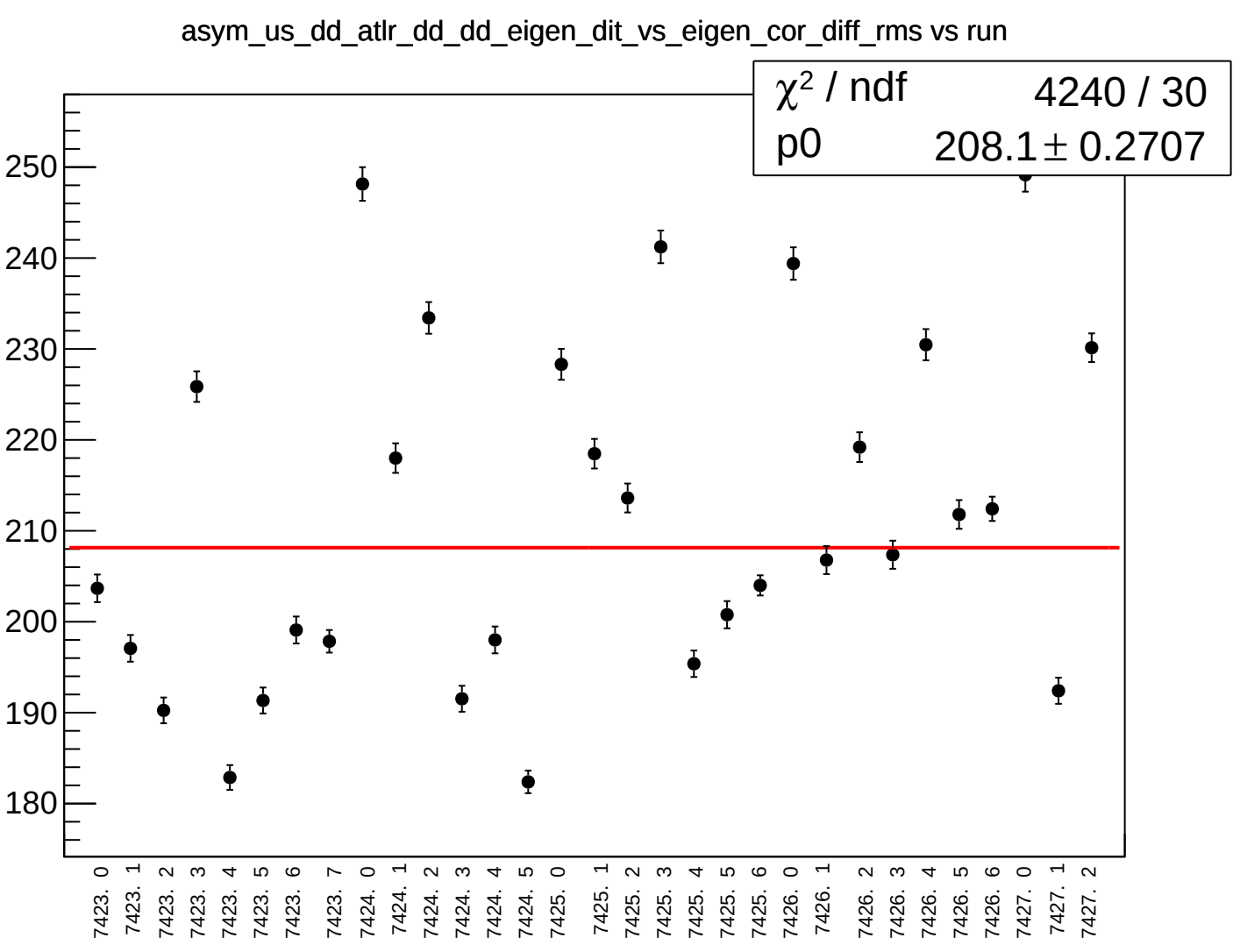

pull1D
Entries 31
Mean 0.002263
Std Dev 0.7669
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

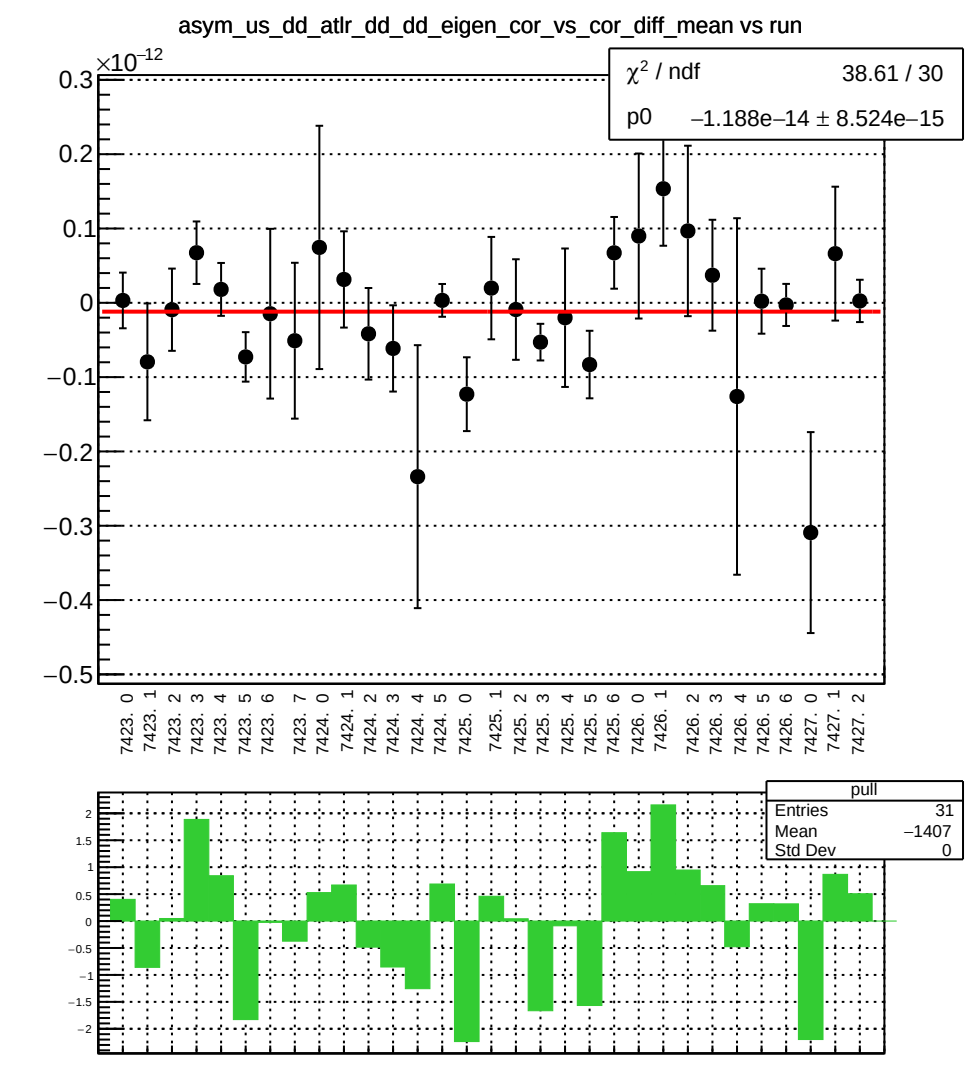

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1651 / 30
p0 0.002772 ± 3.597e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

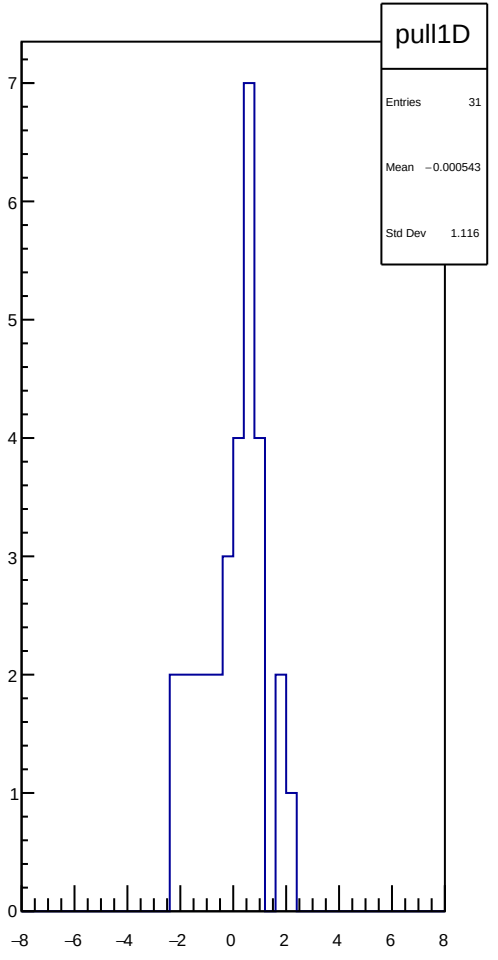

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.72 / 30
p0 −0.2731± 0.3828
pull
Entries 31
Mean 453.8
Std Dev 0
pull1D
Entries 31
Mean −0.00725
Std Dev 0.8175

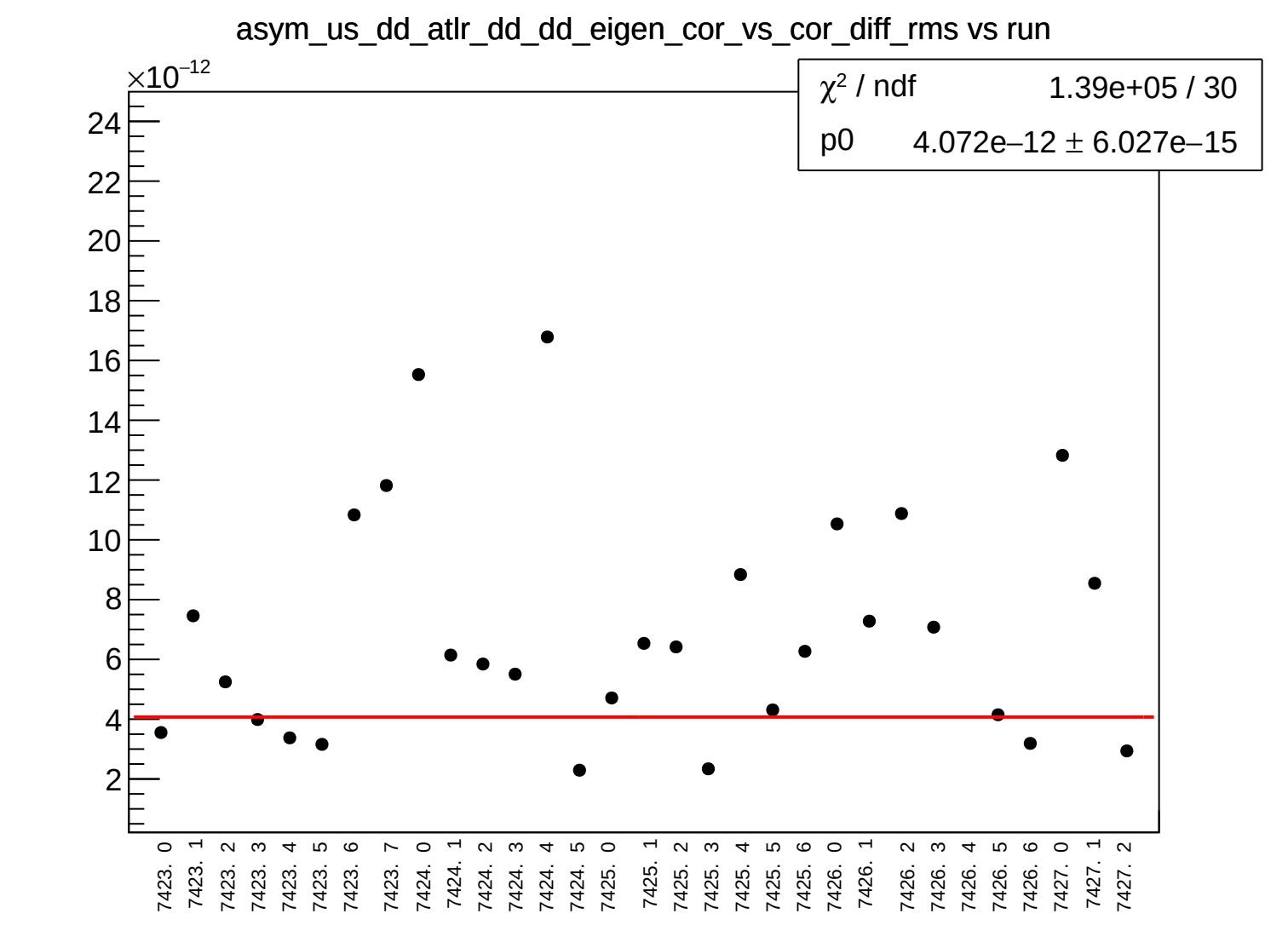

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4240 / 30
p0 208.1 ± 0.2707
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

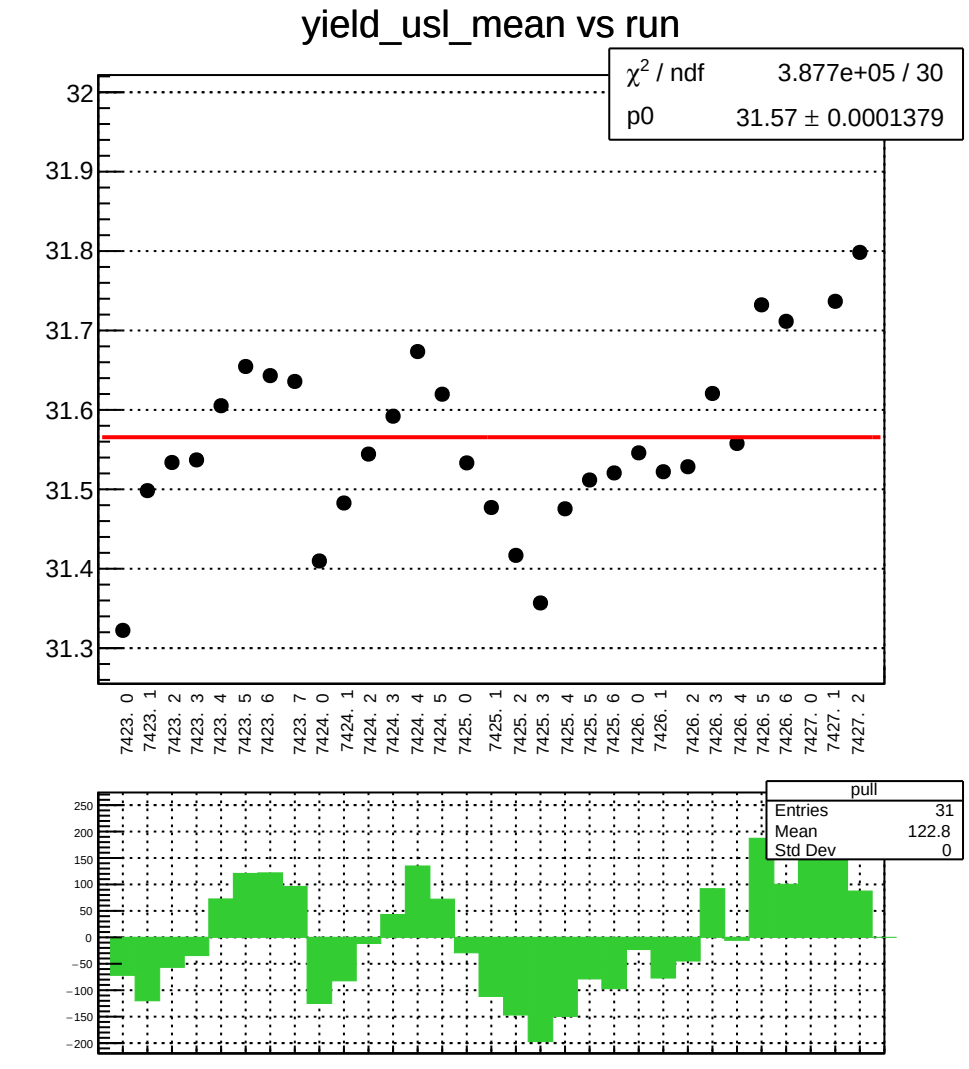

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.72 / 30
p0 −0.2731± 0.3828
6
4
2
0
−2
−4
−6
−8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 453.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.00725
Std Dev 0.8175
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

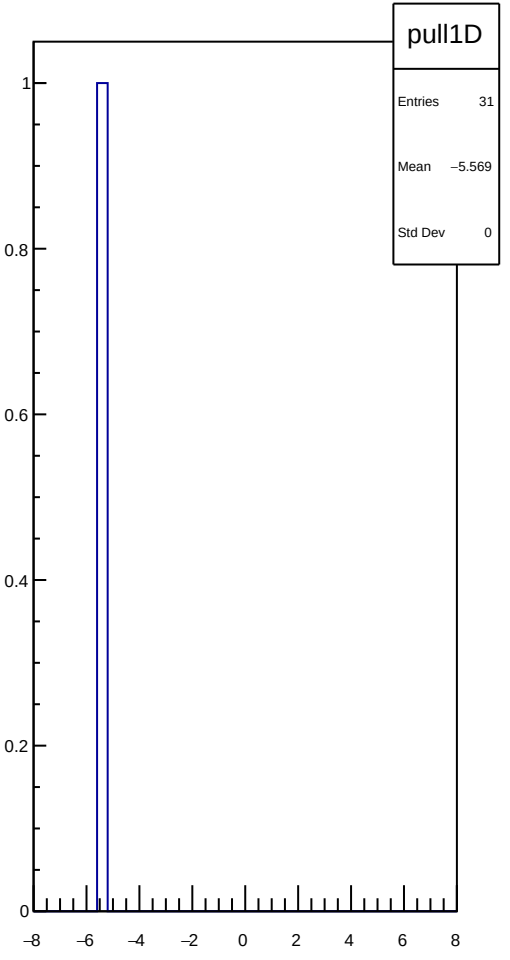

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4240 / 30
p0 208.1 ± 0.2707
250
240
230
220
210
200
190
180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

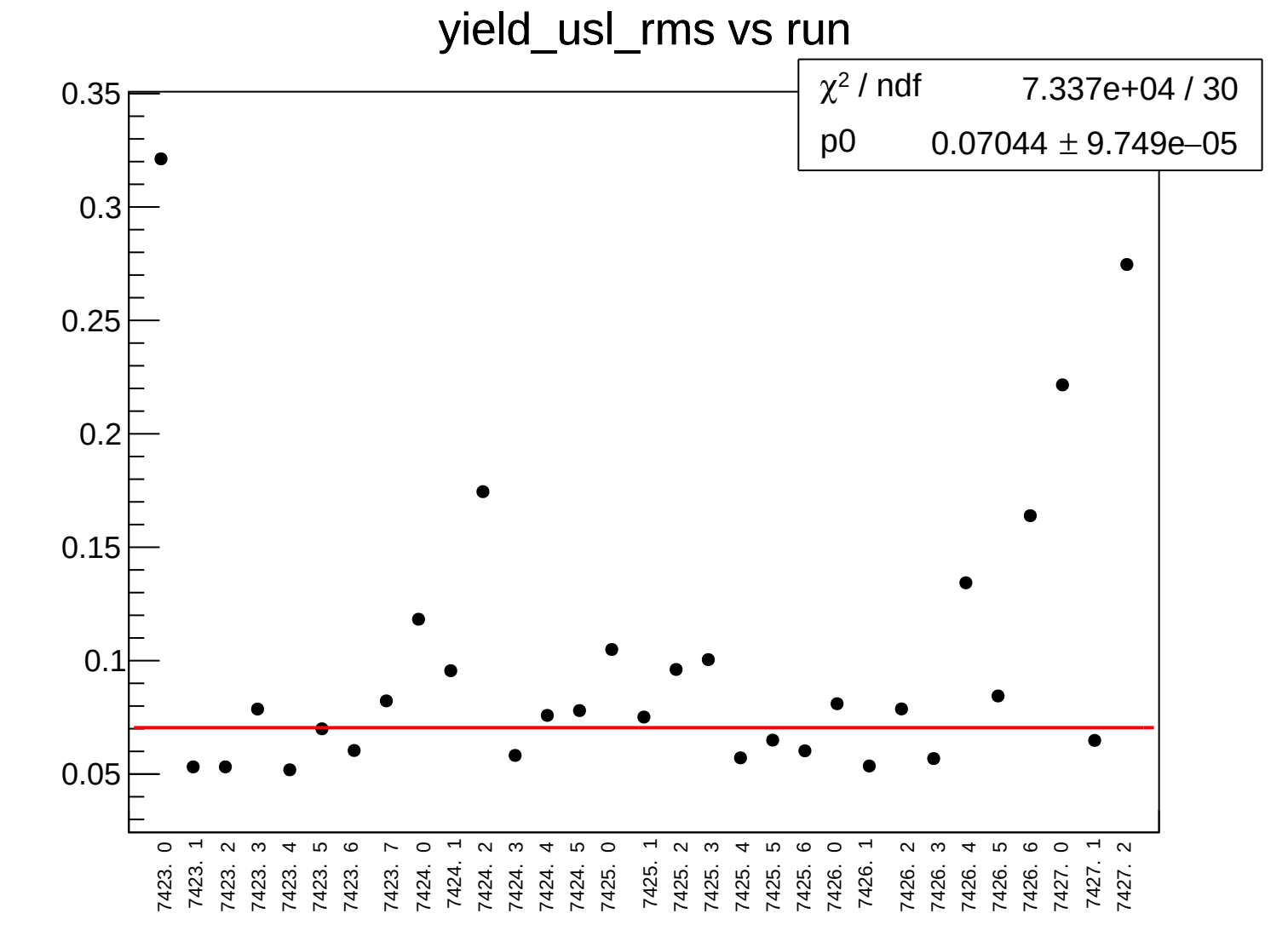

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 38.61 / 30
p0 −1.188e−14 ± 8.524e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1407
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

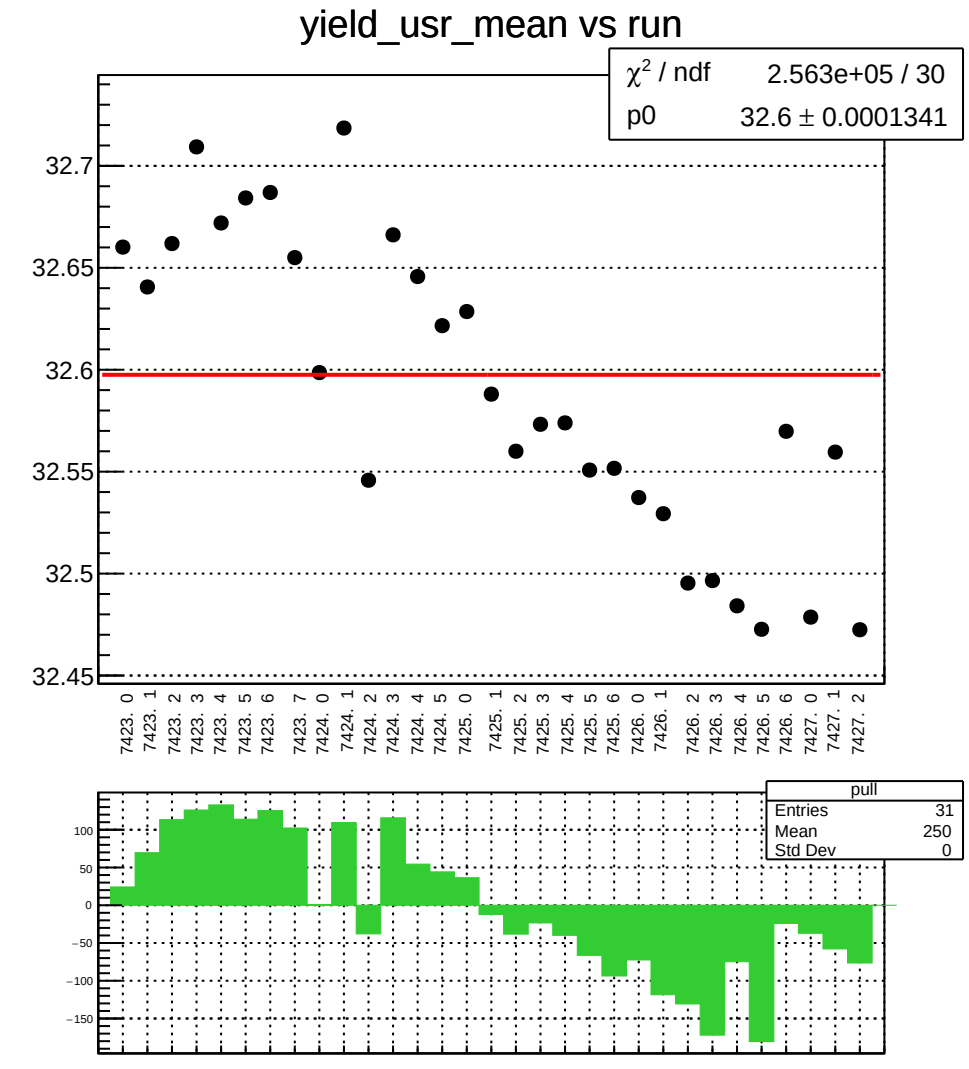

pull1D
Entries 31
Mean −0.000543
Std Dev 1.116
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

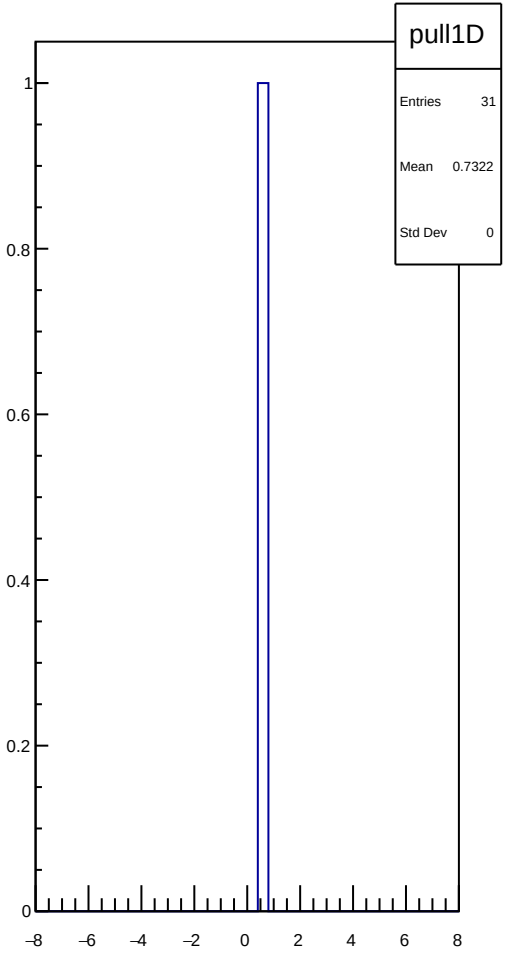

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.39e+05 / 30
p0 4.072e−12 ± 6.027e−15
24
22
20
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

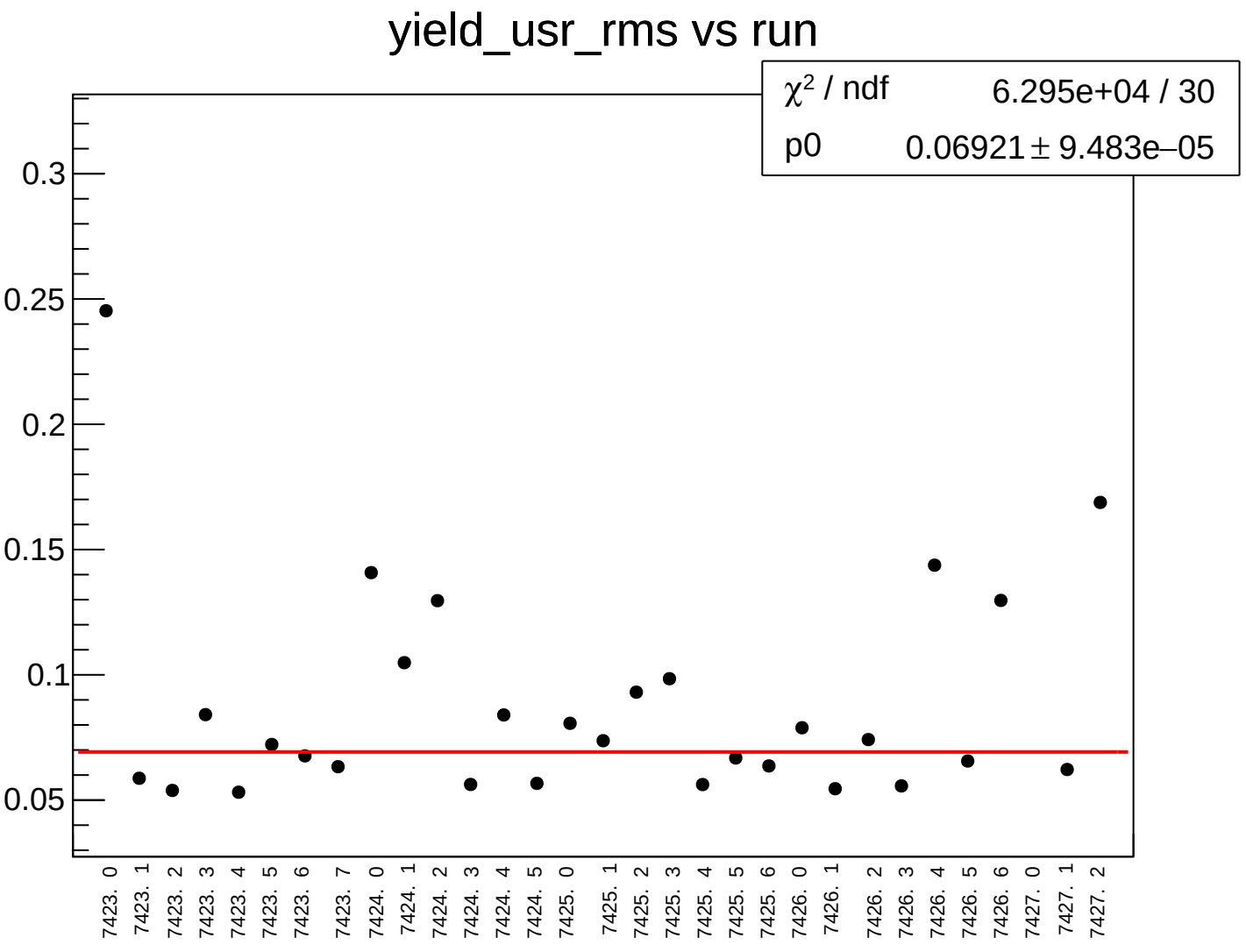

yield_usl_mean vs run
χ² / ndf 3.877e+05 / 30
p0 31.57 ± 0.0001379
32
31.9
31.8
31.7
31.6
31.5
31.4
31.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 122.8
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

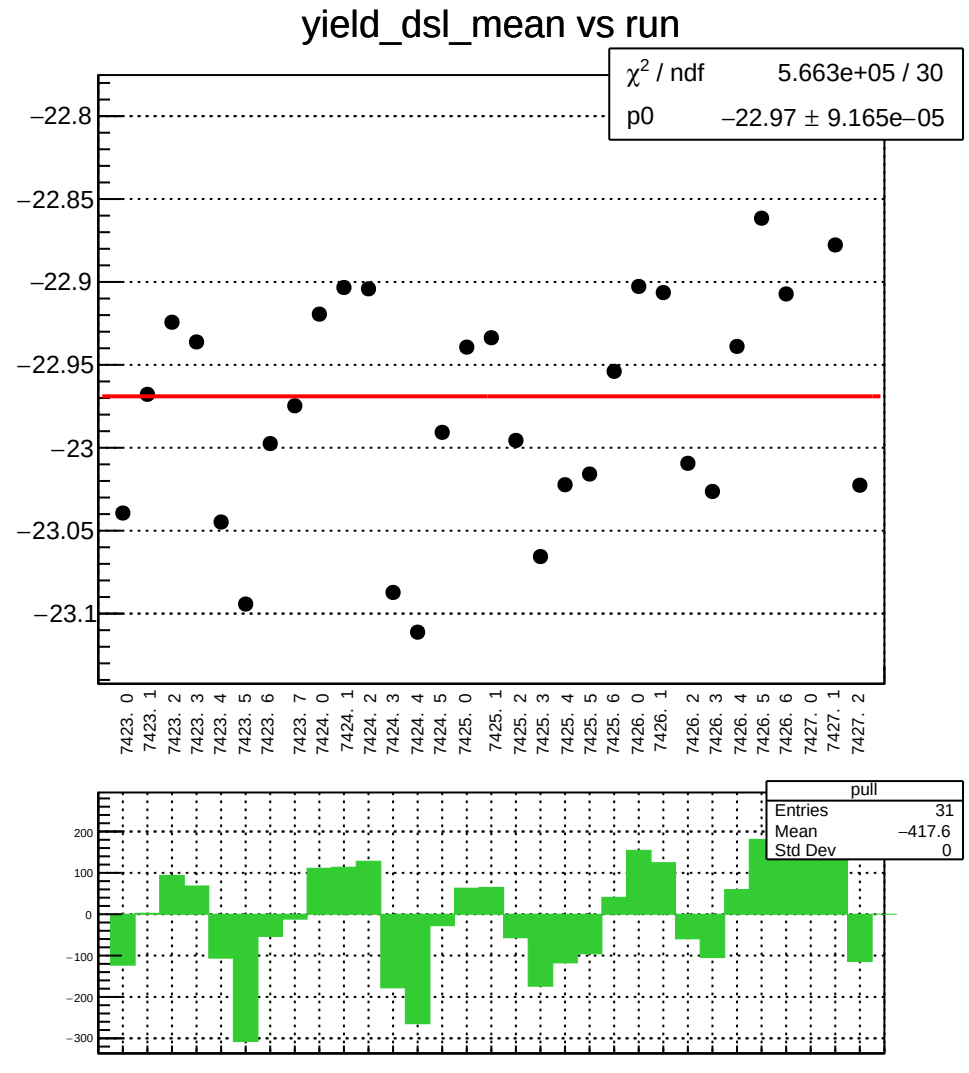

pull1D
Entries 31
Mean −5.569
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

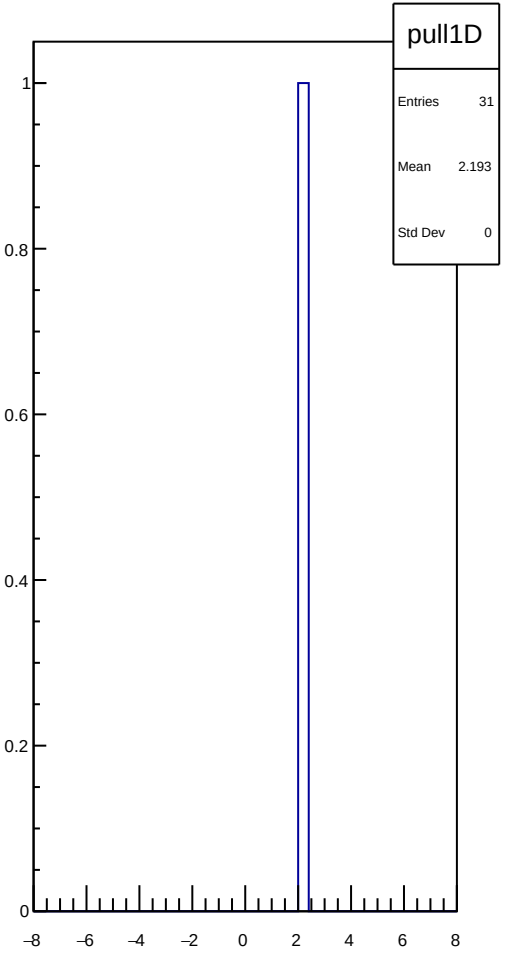

yield_usl_rms vs run
χ² / ndf 7.337e+04 / 30
p0 0.07044 ± 9.749e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

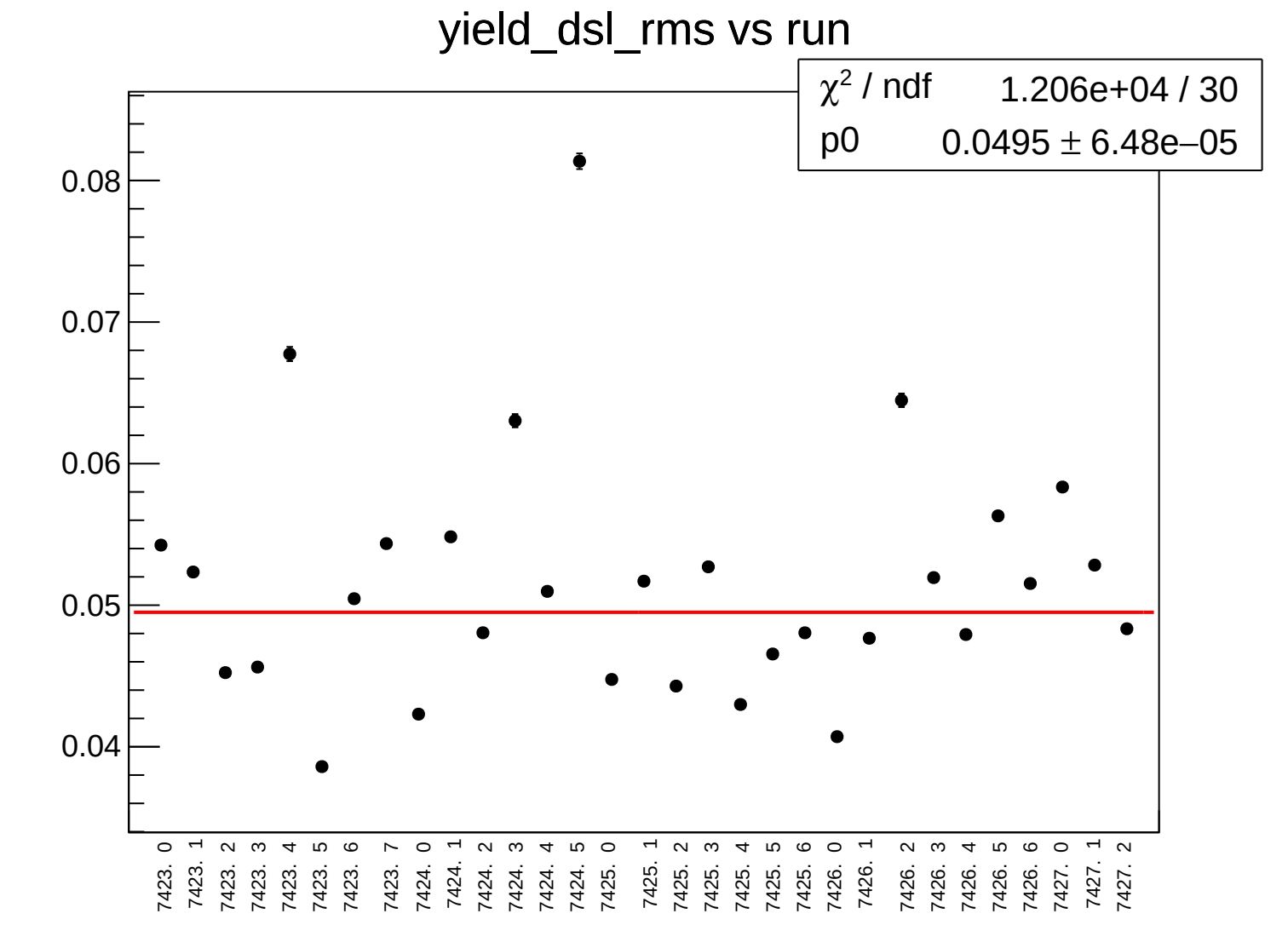

yield_usr_mean vs run
χ² / ndf 2.563e+05 / 30
p0 32.6 ± 0.0001341
32.7
32.65
32.6
32.55
32.5
32.45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 250
Std Dev 0
100
50
0
−50
−100
−150

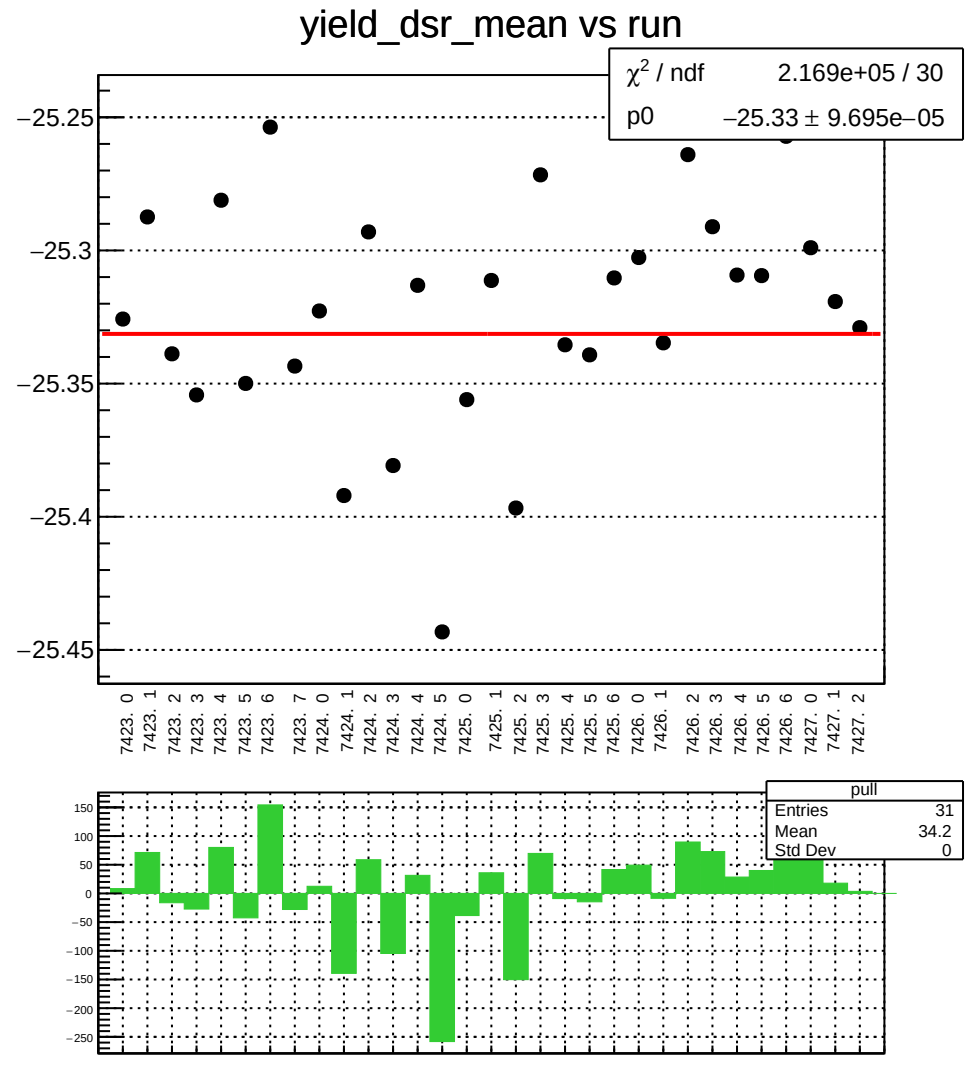

pull1D
Entries 31
Mean 0.7322
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

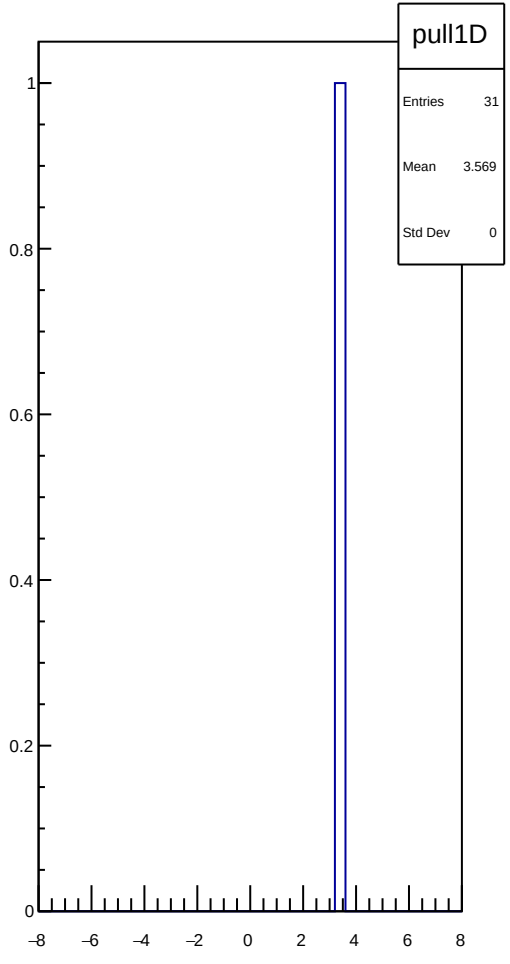

yield_usr_rms vs run
χ² / ndf 6.295e+04 / 30
p0 0.06921 ± 9.483e–05
0.3
0.25
0.2
0.15
0.1
0.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

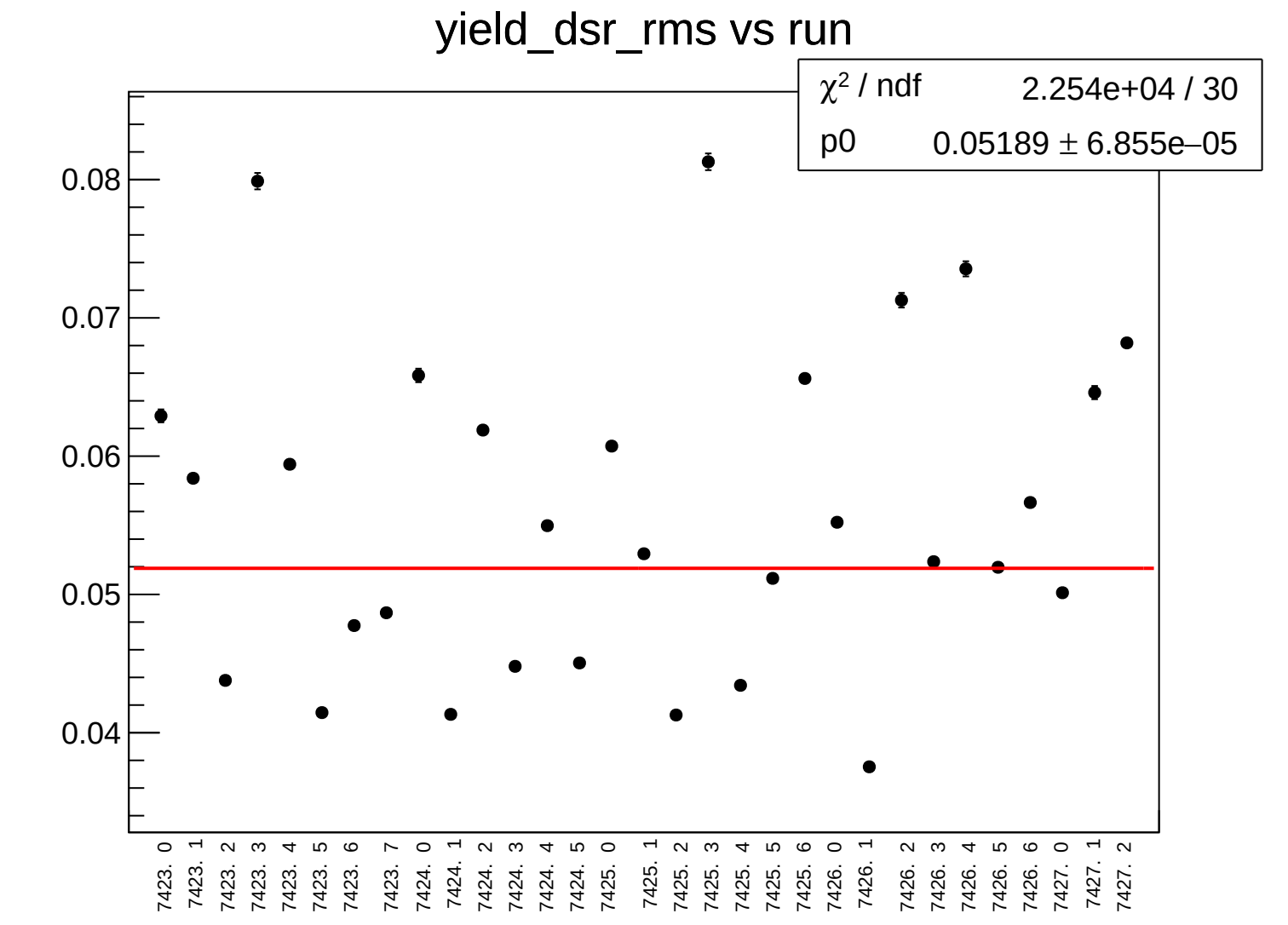

yield_dsl_mean vs run
χ² / ndf 5.663e+05 / 30
p0 −22.97 ± 9.165e−05
−22.8
−22.85
−22.9
−22.95
−23
−23.05
−23.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −417.6
Std Dev 0
200
100
0
−100
−200
−300

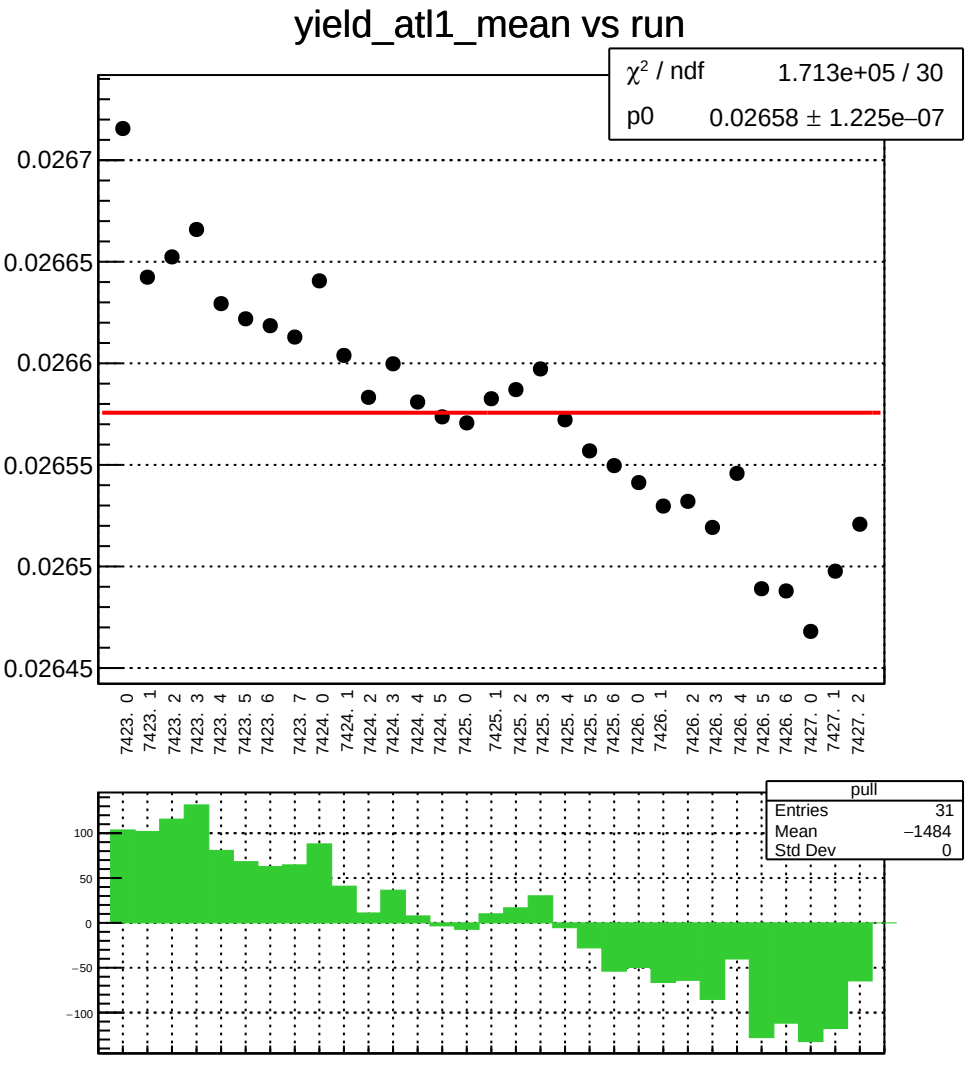

pull1D
Entries 31
Mean 2.193
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

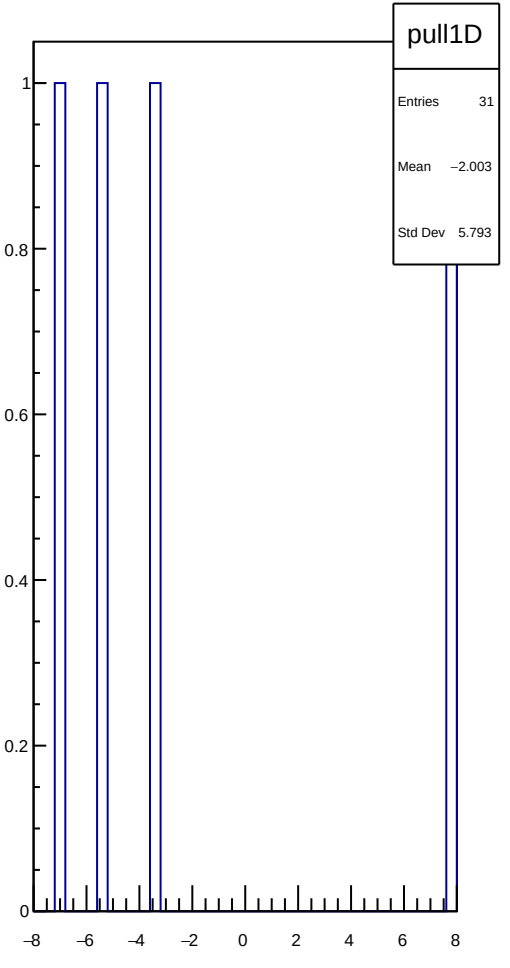

yield_dsl_rms vs run
χ² / ndf 1.206e+04 / 30
p0 0.0495 ± 6.48e−05
0.08
0.07
0.06
0.05
0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

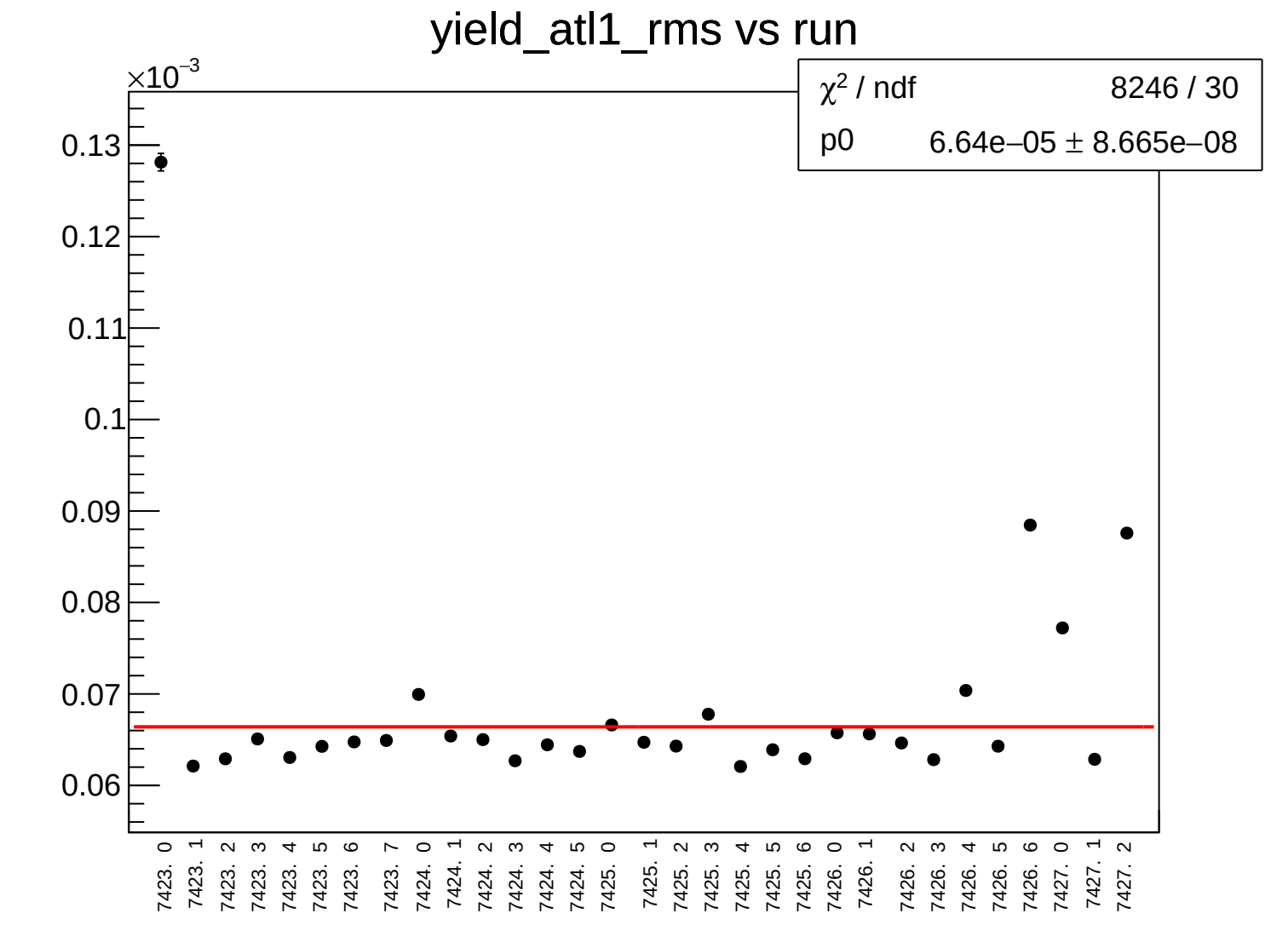

yield_dsr_mean vs run
χ² / ndf 2.169e+05 / 30
p0 −25.33 ± 9.695e−05
−25.25
−25.3
−25.35
−25.4
−25.45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 34.2
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

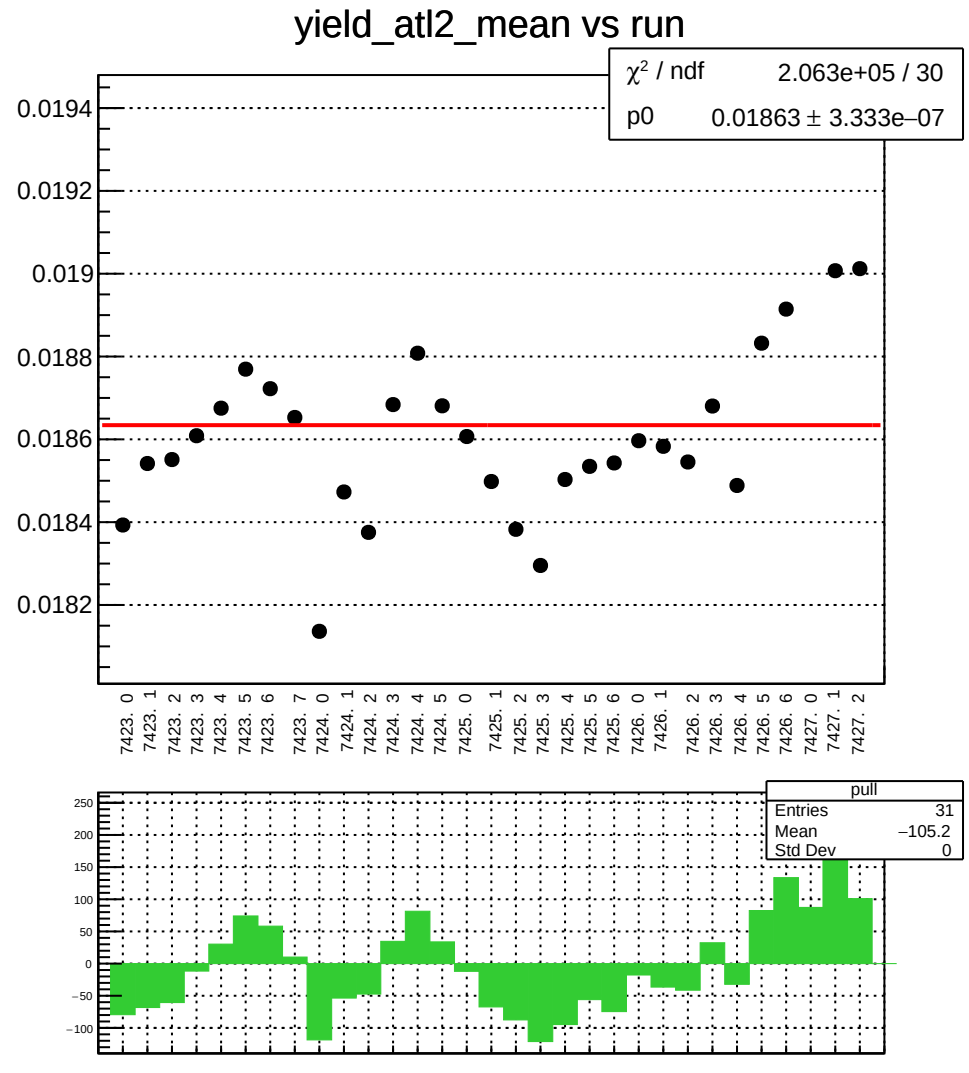

pull1D
Entries 31
Mean 3.569
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

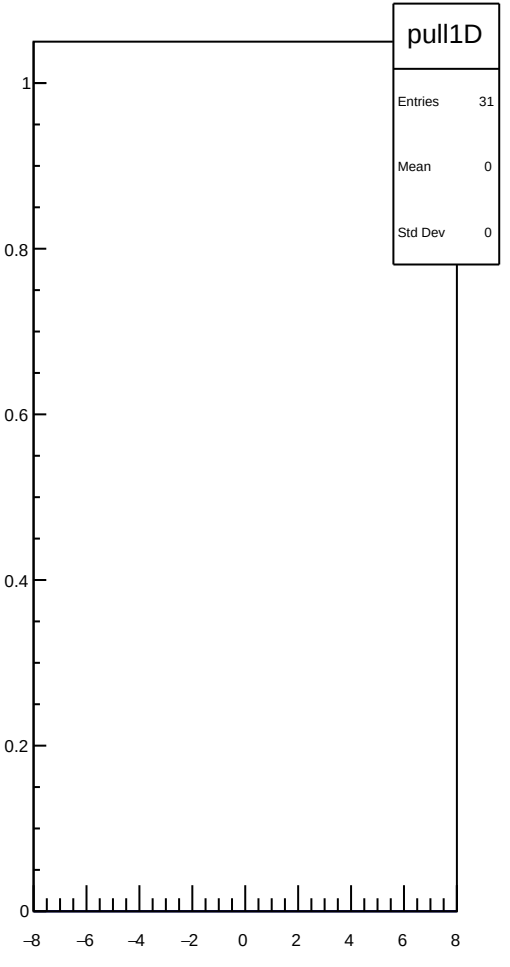

yield_dsr_rms vs run
χ² / ndf 2.254e+04 / 30
p0 0.05189 ± 6.855e–05
0.08
0.07
0.06
0.05
0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

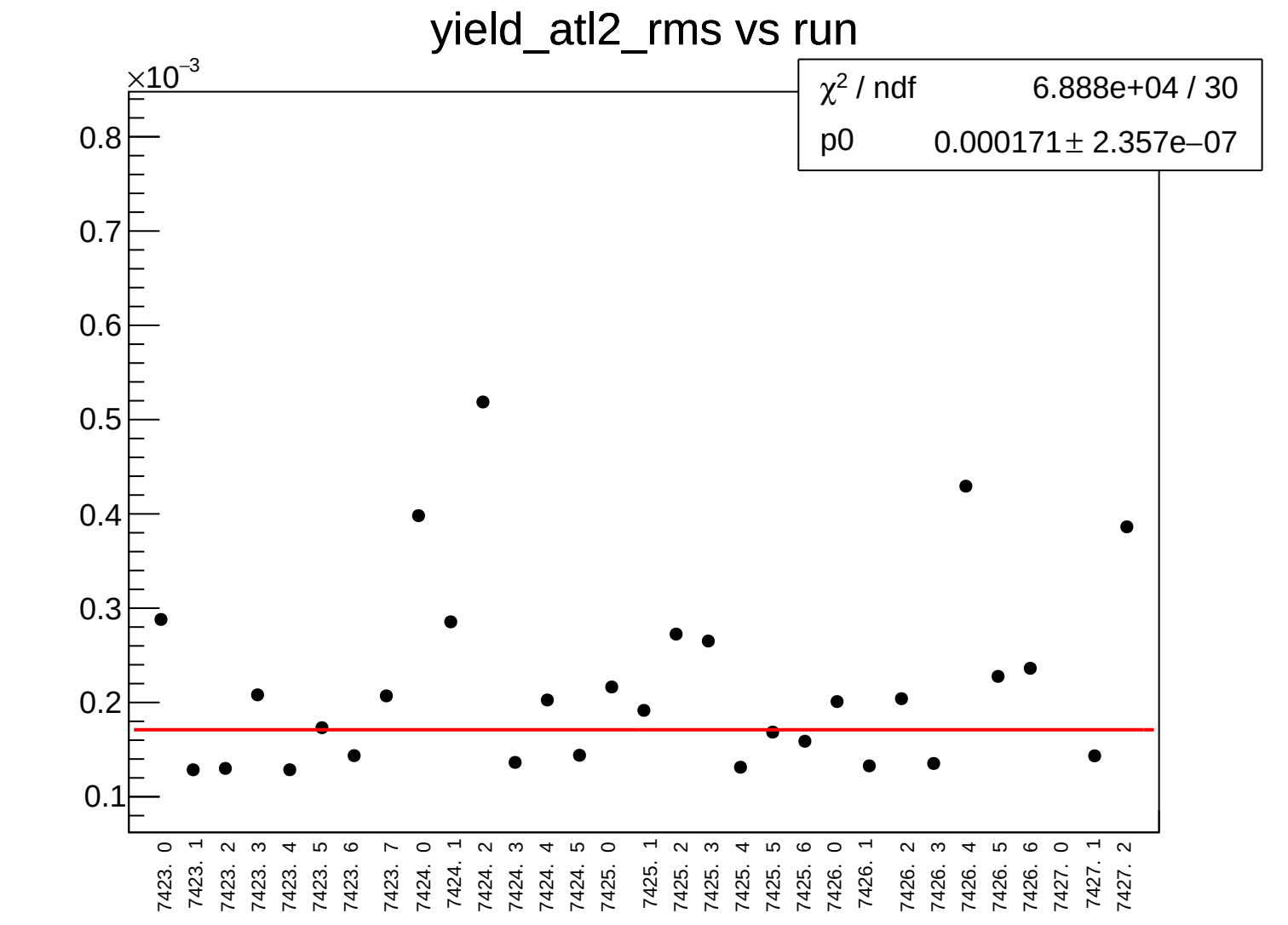

yield_atl1_mean vs run
χ² / ndf 1.713e+05 / 30
p0 0.02658 ± 1.225e−07
0.0267
0.02665
0.0266
0.02655
0.0265
0.02645
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1484
Std Dev 0
100
50
0
−50
−100

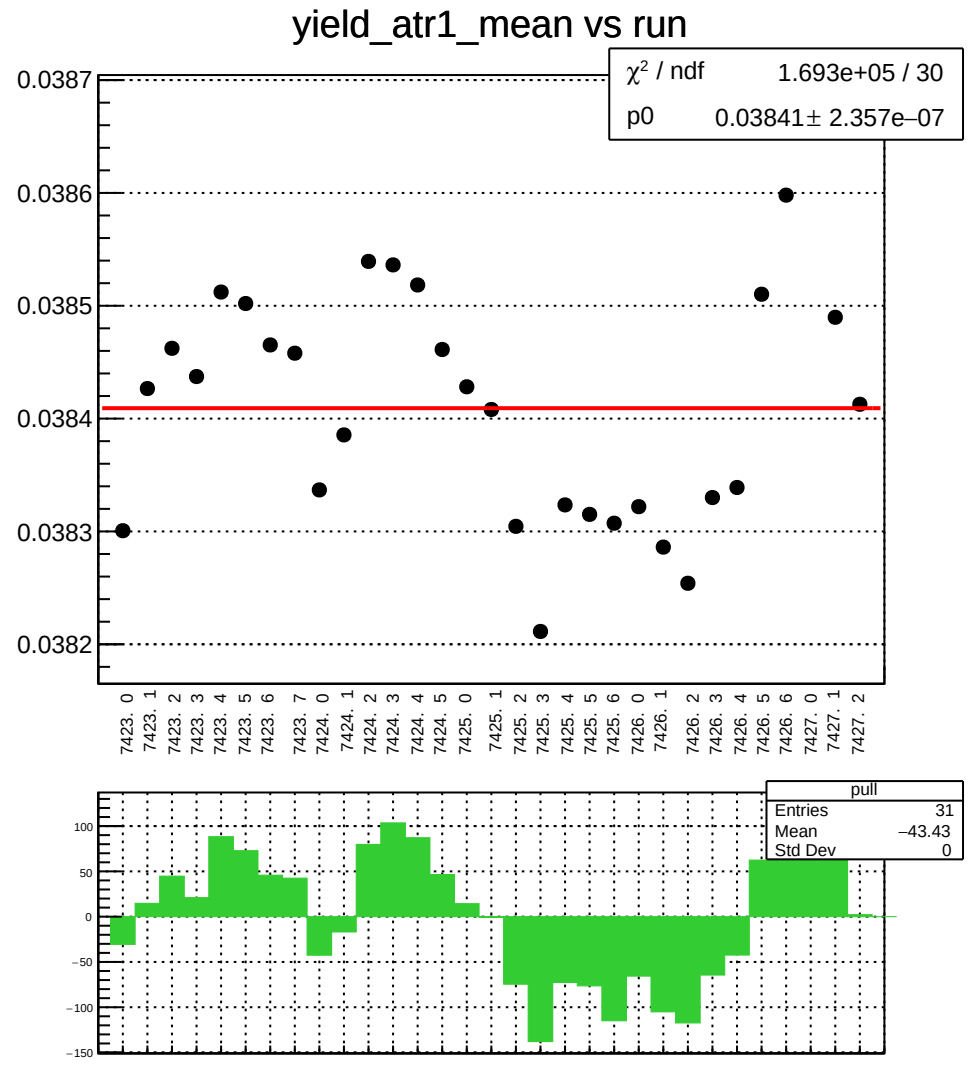

pull1D
Entries 31
Mean −2.003
Std Dev 5.793
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

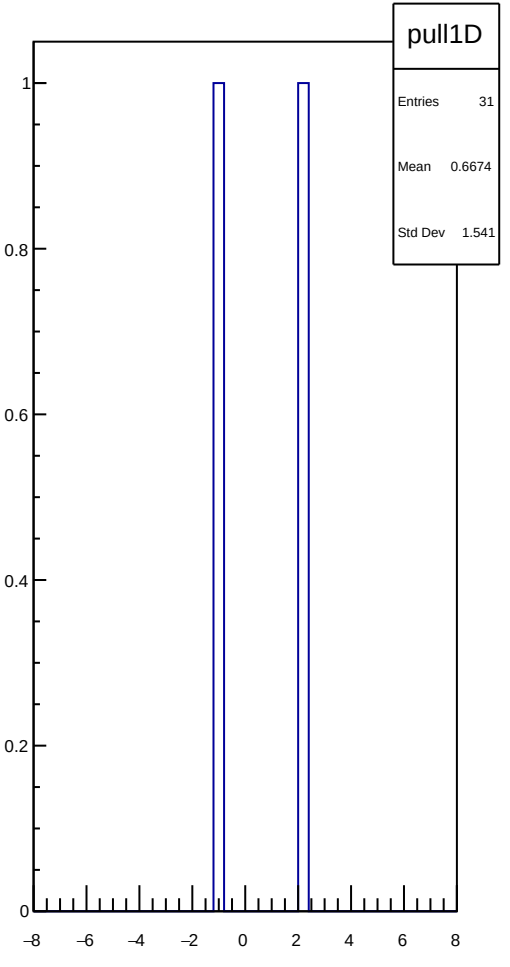

yield_atl1_rms vs run
×10⁻³
χ² / ndf 8246 / 30
p0 6.64e−05 ± 8.665e−08
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

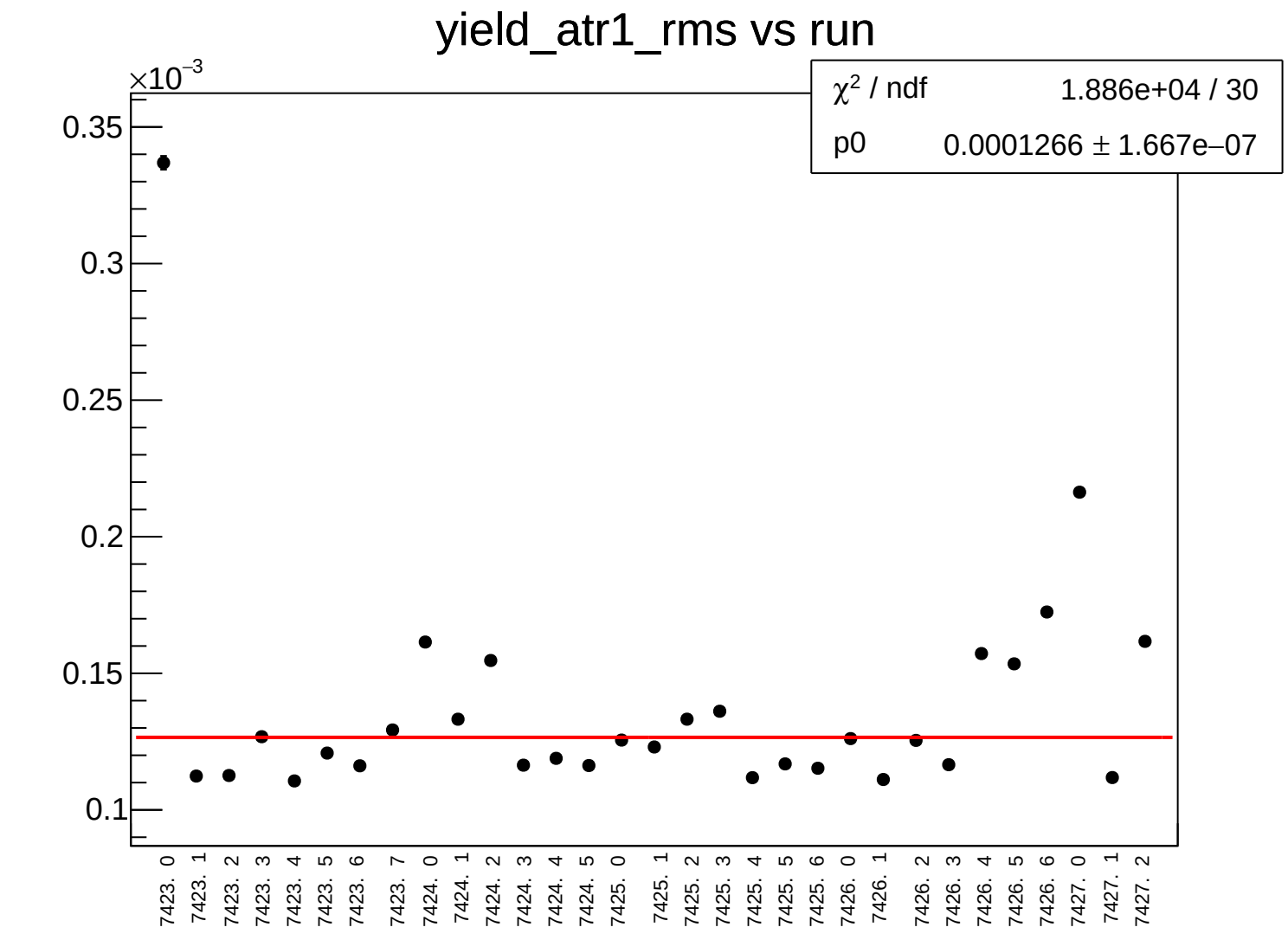

yield_atl2_mean vs run
χ² / ndf 2.063e+05 / 30
p0 0.01863 ± 3.333e−07
0.0194
0.0192
0.019
0.0188
0.0186
0.0184
0.0182
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −105.2
Std Dev 0
250
200
150
100
50
0
−50
−100

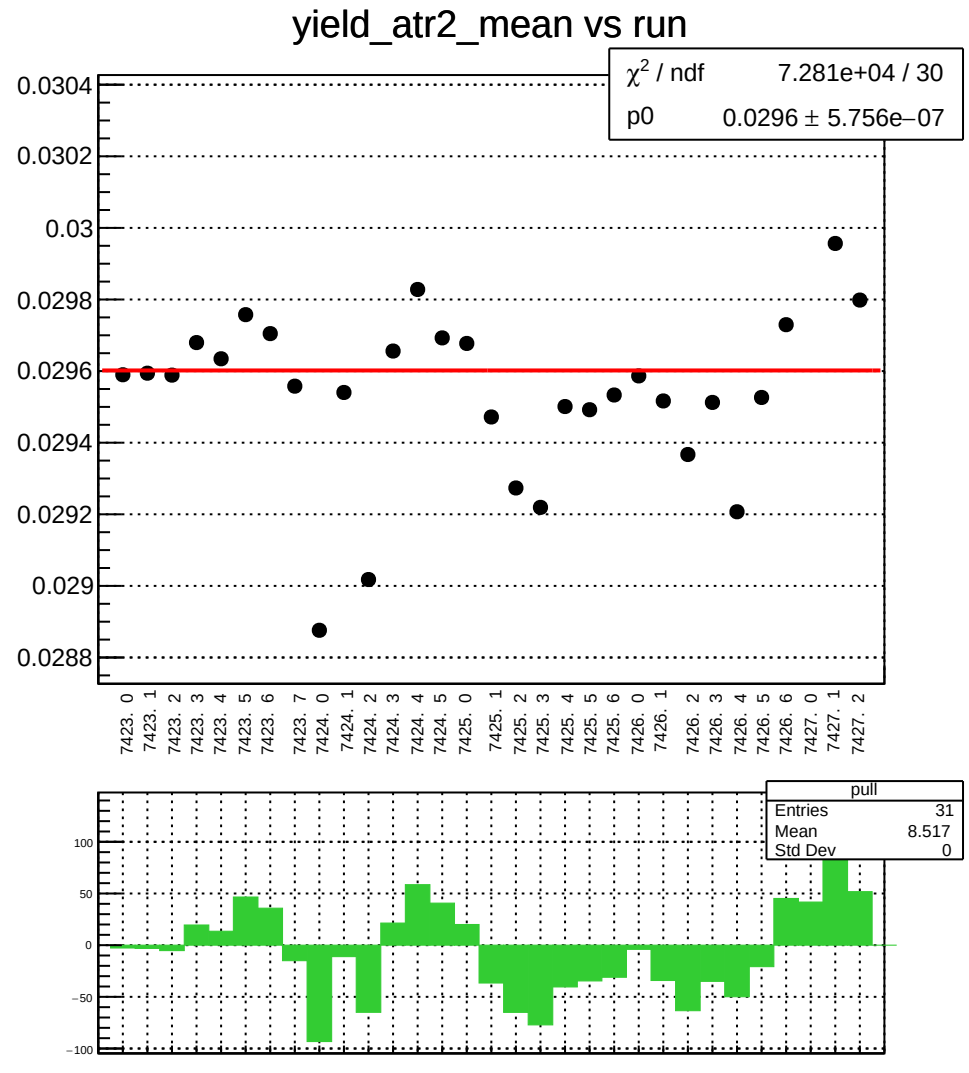

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

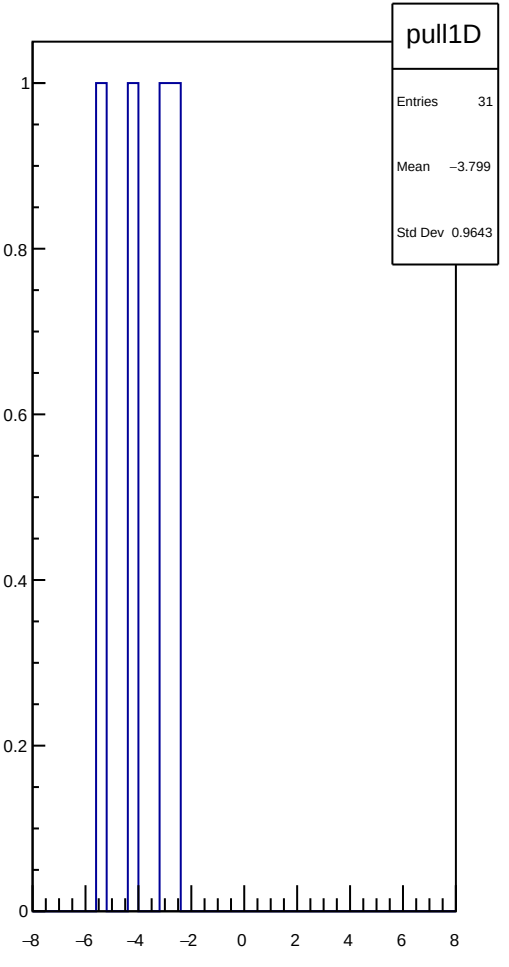

yield_atl2_rms vs run
×10⁻³
χ² / ndf 6.888e+04 / 30
p0 0.000171 ± 2.357e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

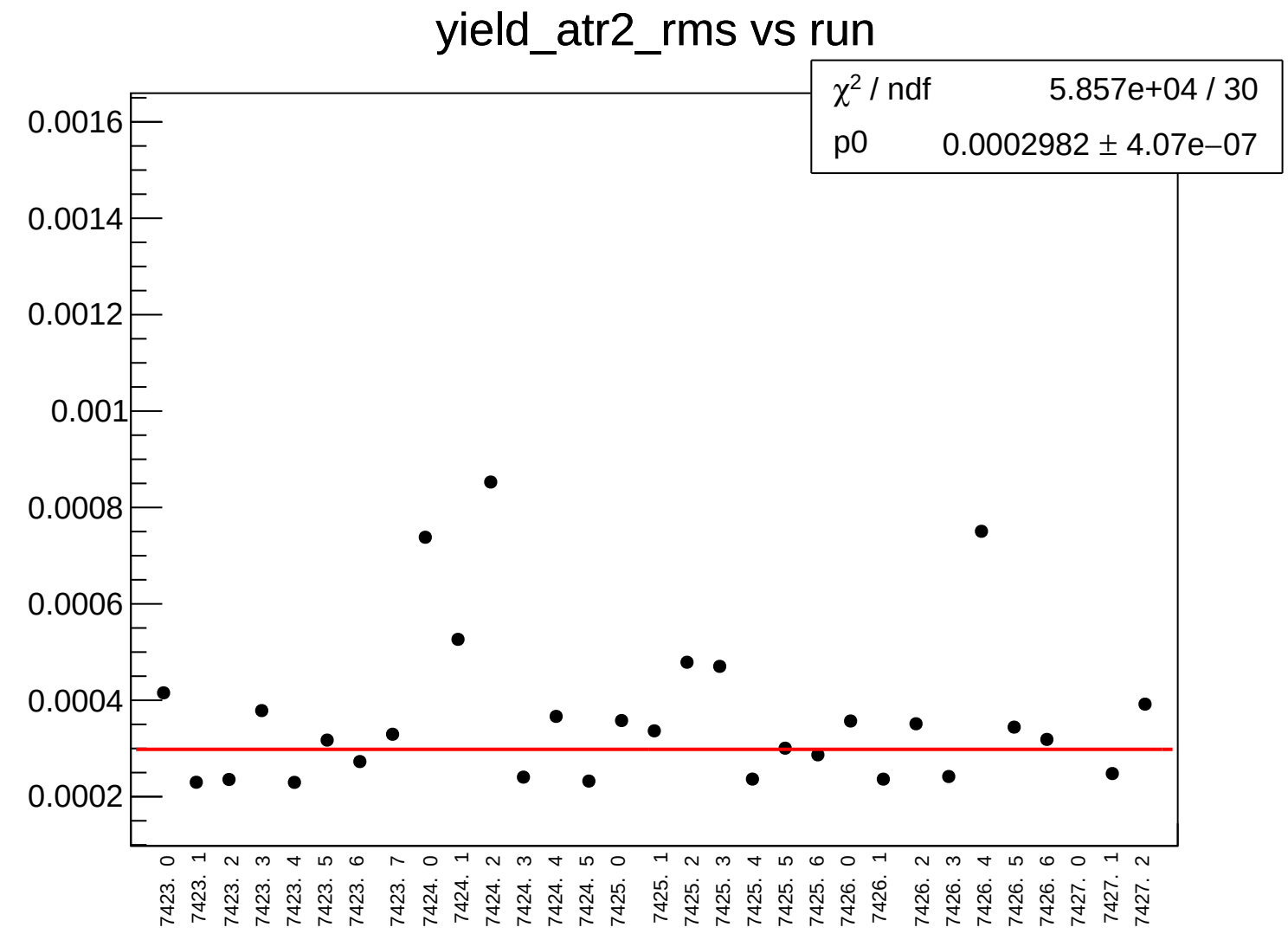

yield_atr1_mean vs run
χ² / ndf 1.693e+05 / 30
p0 0.03841± 2.357e–07
0.0387
0.0386
0.0385
0.0384
0.0383
0.0382
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean –43.43
Std Dev 0
100
50
0
–50
–100
–150

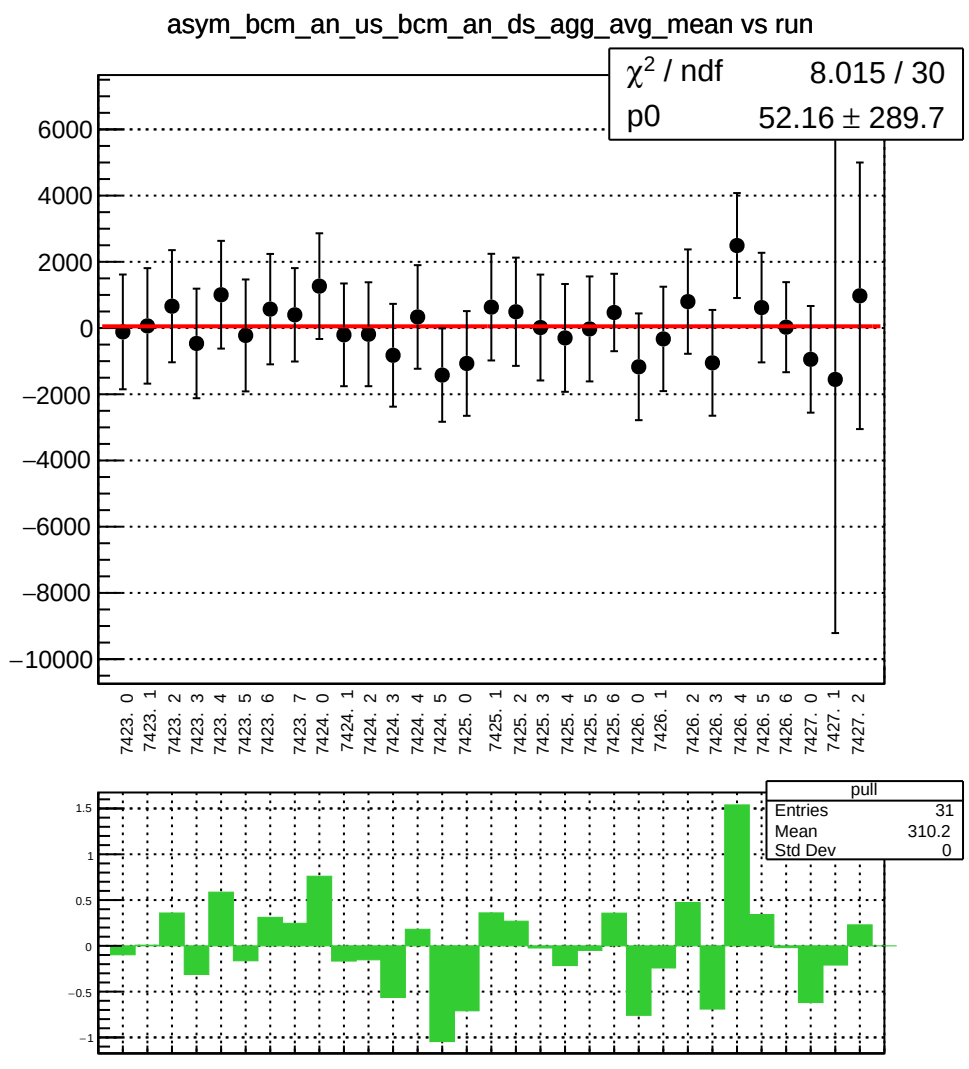

pull1D
Entries 31
Mean 0.6674
Std Dev 1.541
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

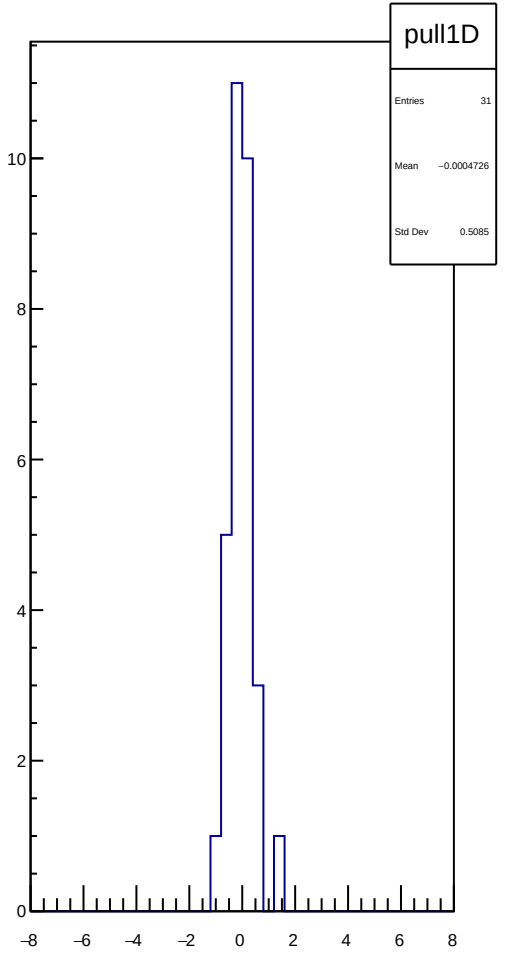

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.886e+04 / 30
p0 0.0001266 ± 1.667e−07
0.35
0.3
0.25
0.2
0.15
0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

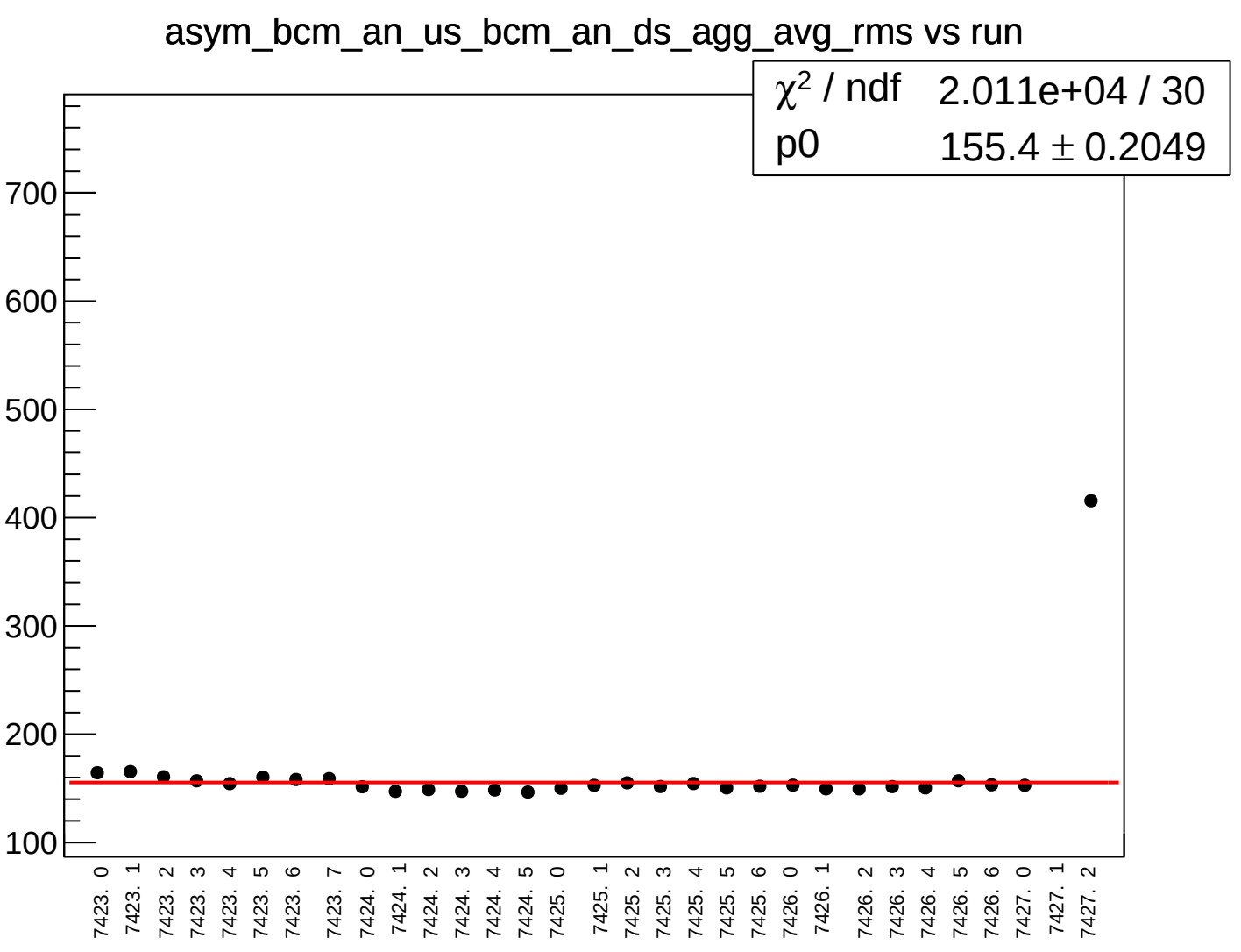

yield_atr2_mean vs run
χ² / ndf 7.281e+04 / 30
p0 0.0296 ± 5.756e−07
0.0304
0.0302
0.03
0.0298
0.0296
0.0294
0.0292
0.029
0.0288
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.517
Std Dev 0
100
50
0
−50
−100

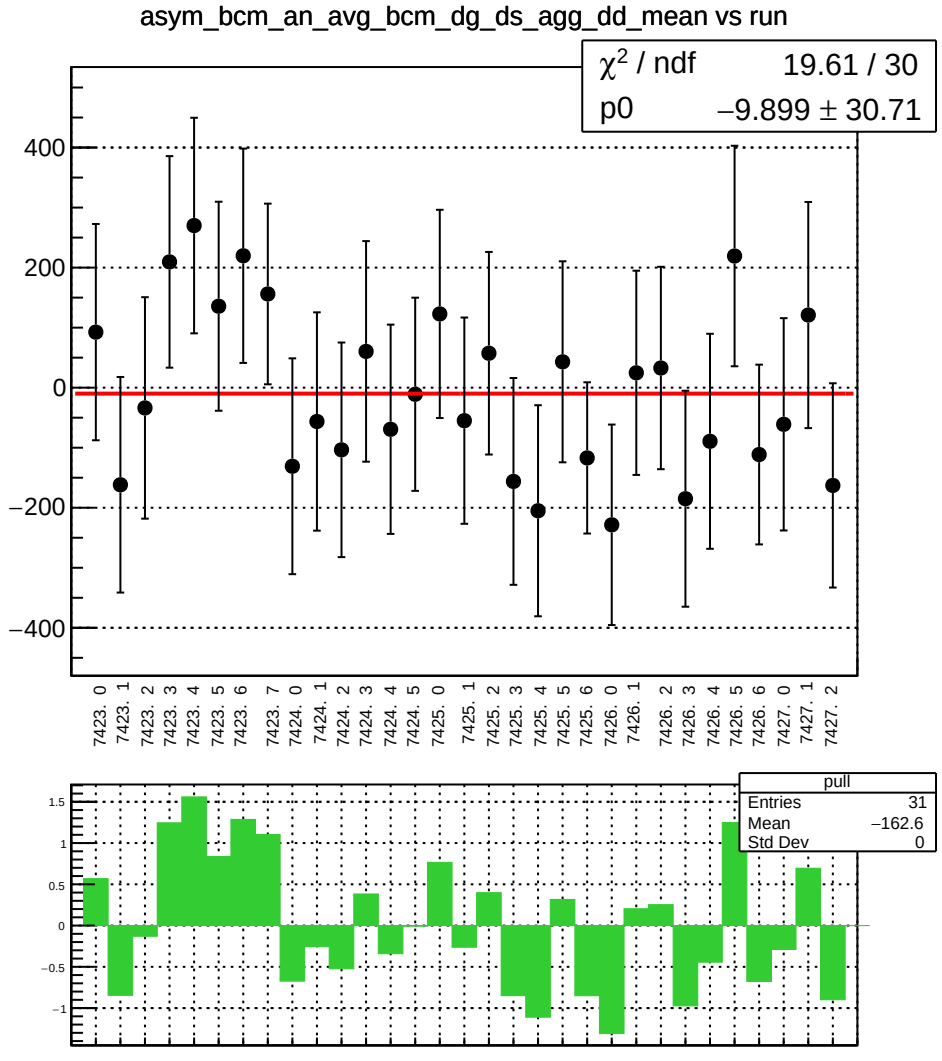

pull1D
Entries 31
Mean −3.799
Std Dev 0.9643
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

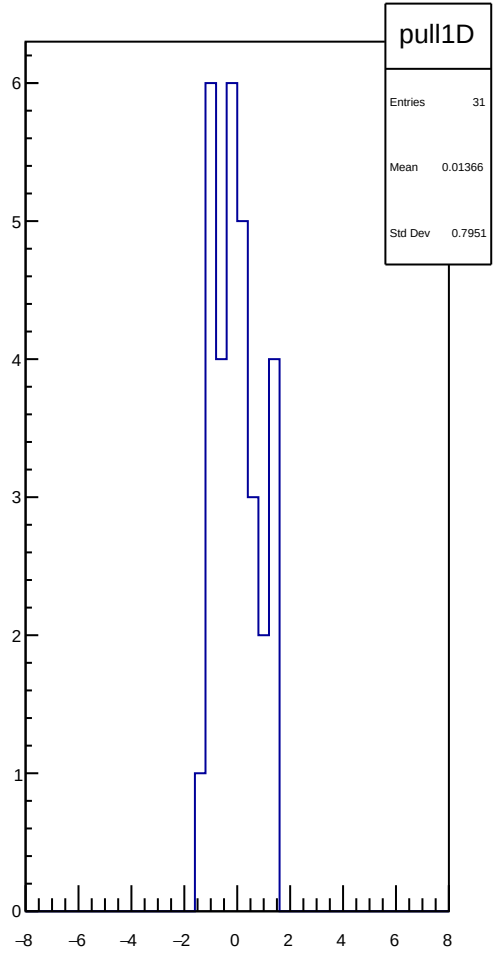

yield_atr2_rms vs run
χ² / ndf 5.857e+04 / 30
p0 0.0002982 ± 4.07e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

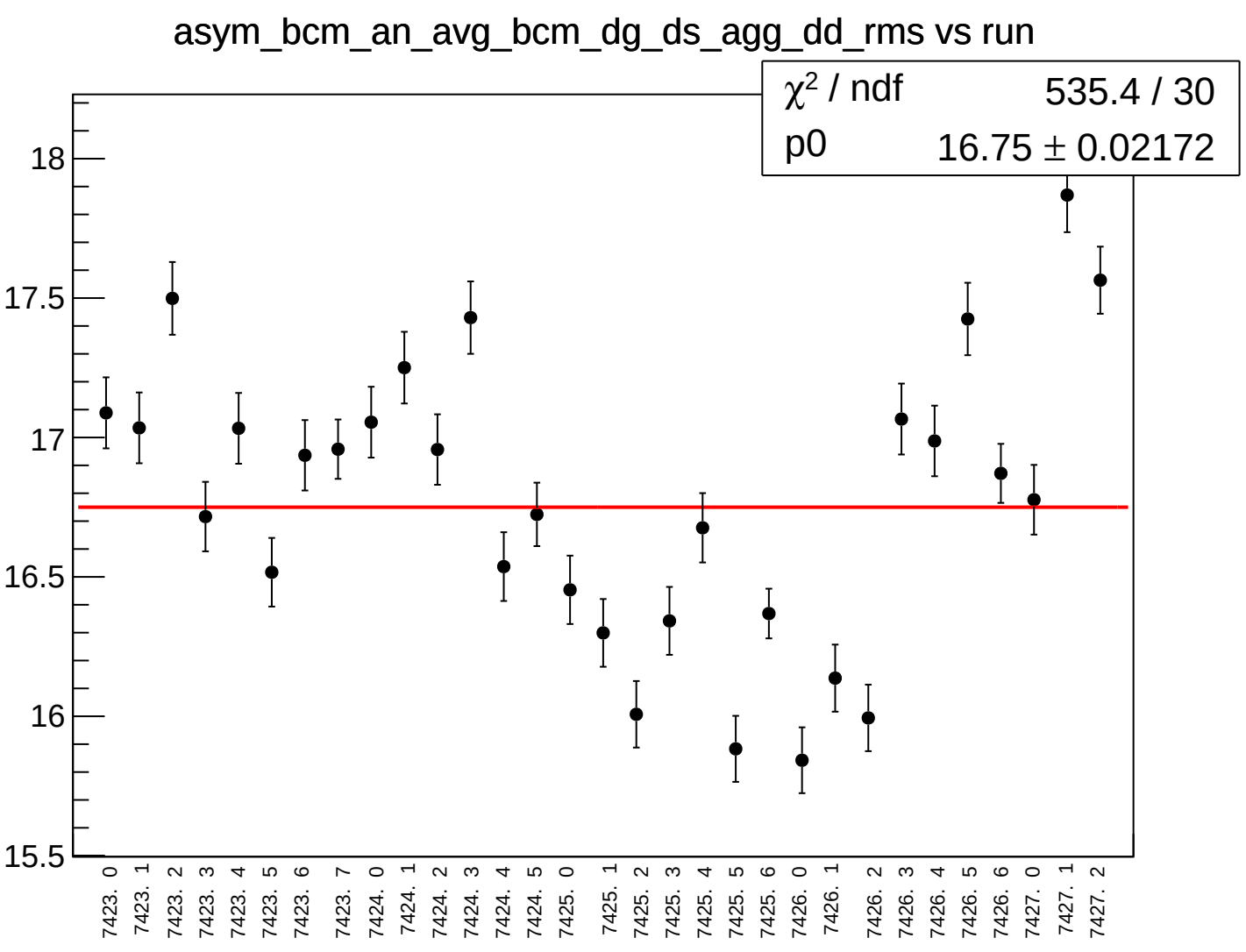

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.015 / 30
p0 52.16 ± 289.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 310.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

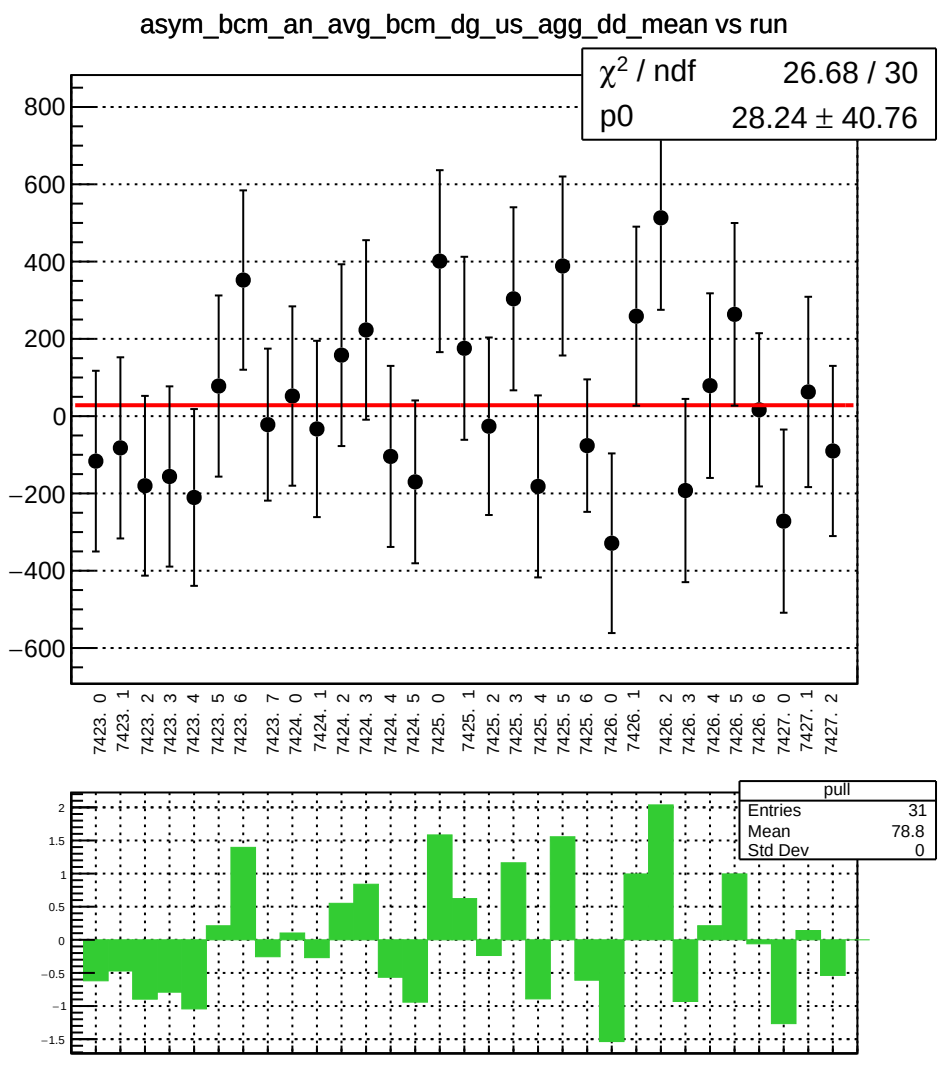

pull1D
Entries 31
Mean −0.0004726
Std Dev 0.5085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

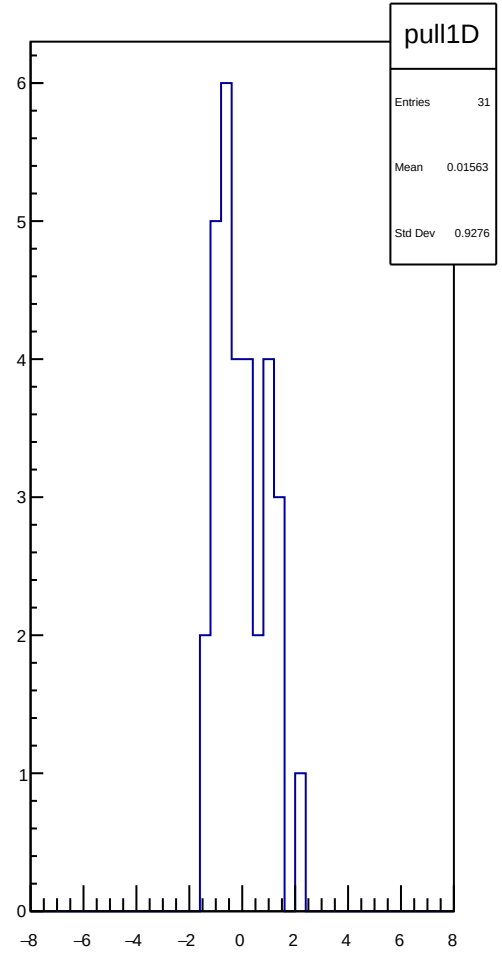

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.011e+04 / 30
p0 155.4 ± 0.2049
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

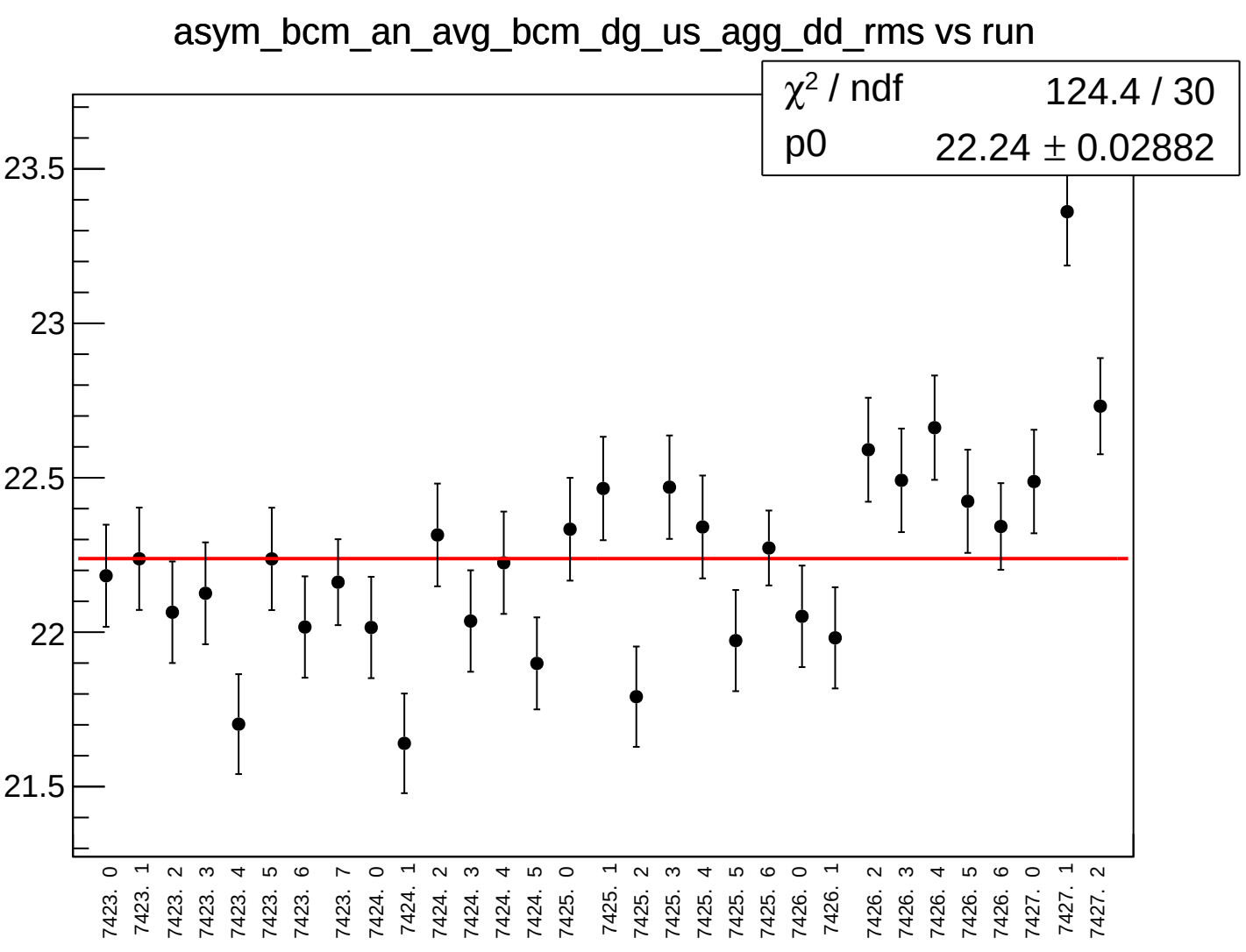

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 19.61 / 30
p0 −9.899 ± 30.71
400
200
0
−200
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −162.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

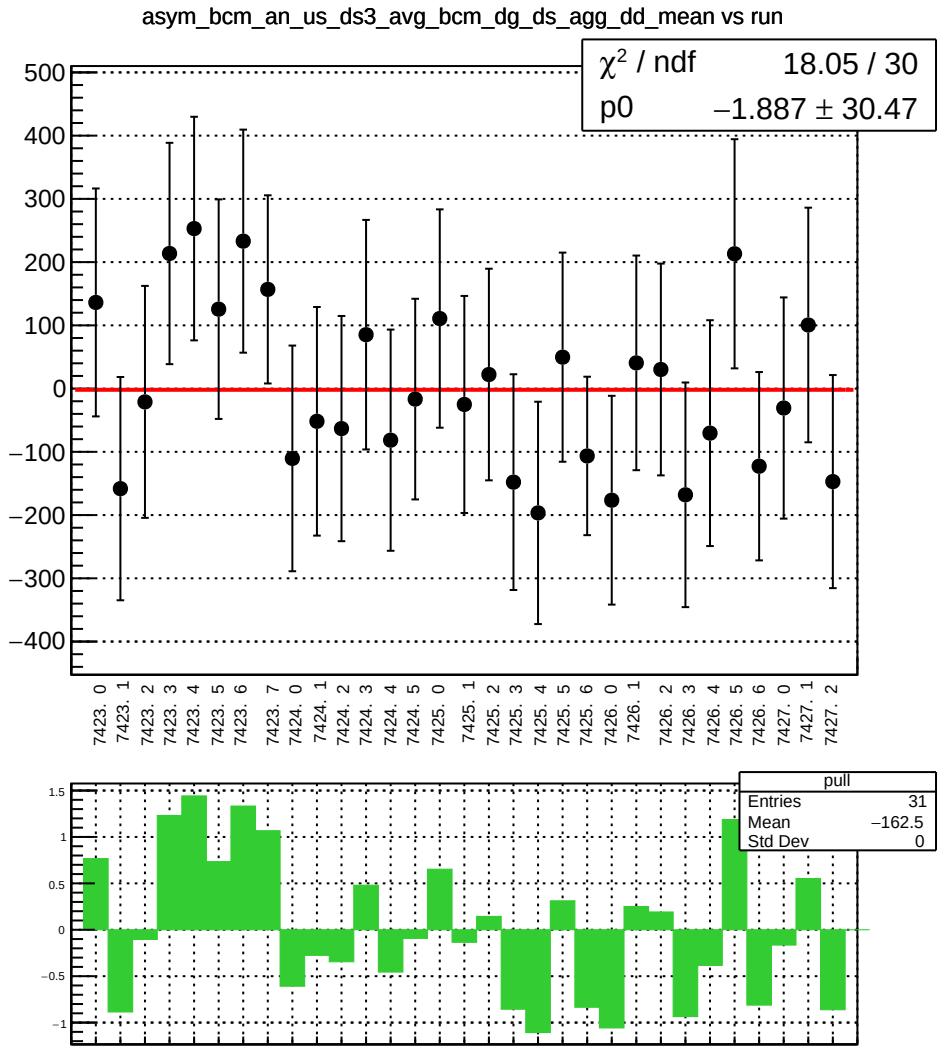

pull1D
Entries 31
Mean 0.01366
Std Dev 0.7951
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

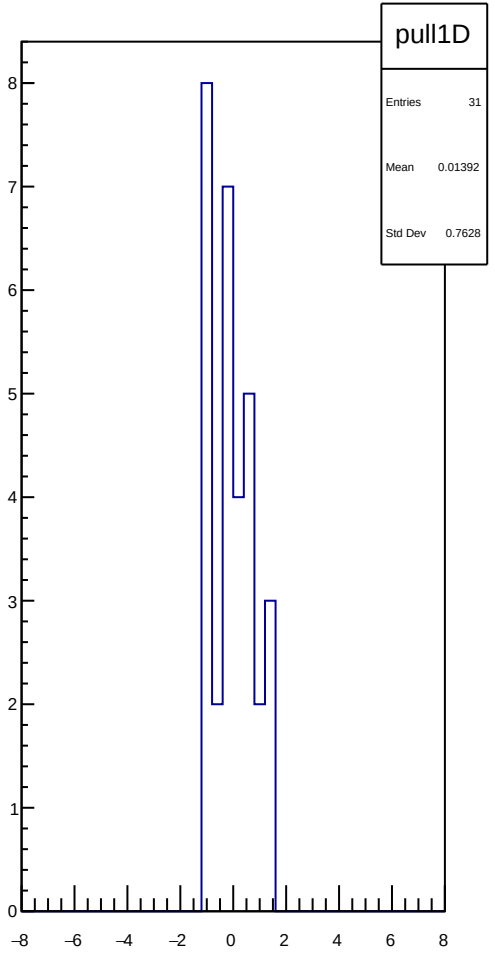

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 535.4 / 30
p0 16.75 ± 0.02172
18
17.5
17
16.5
16
15.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

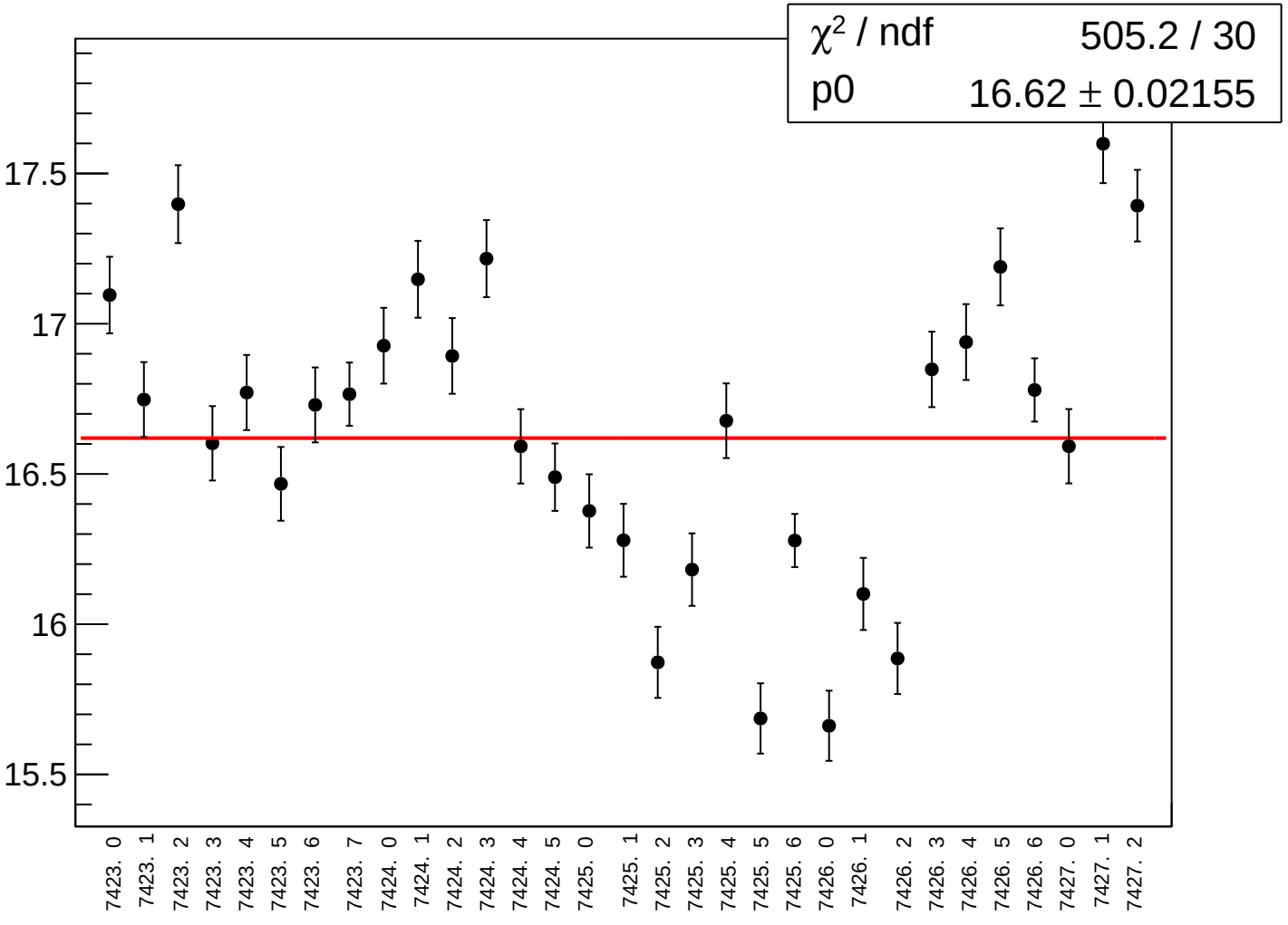

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 26.68 / 30
p0 28.24 ± 40.76
800
600
400
200
0
−200
−400
−600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 78.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

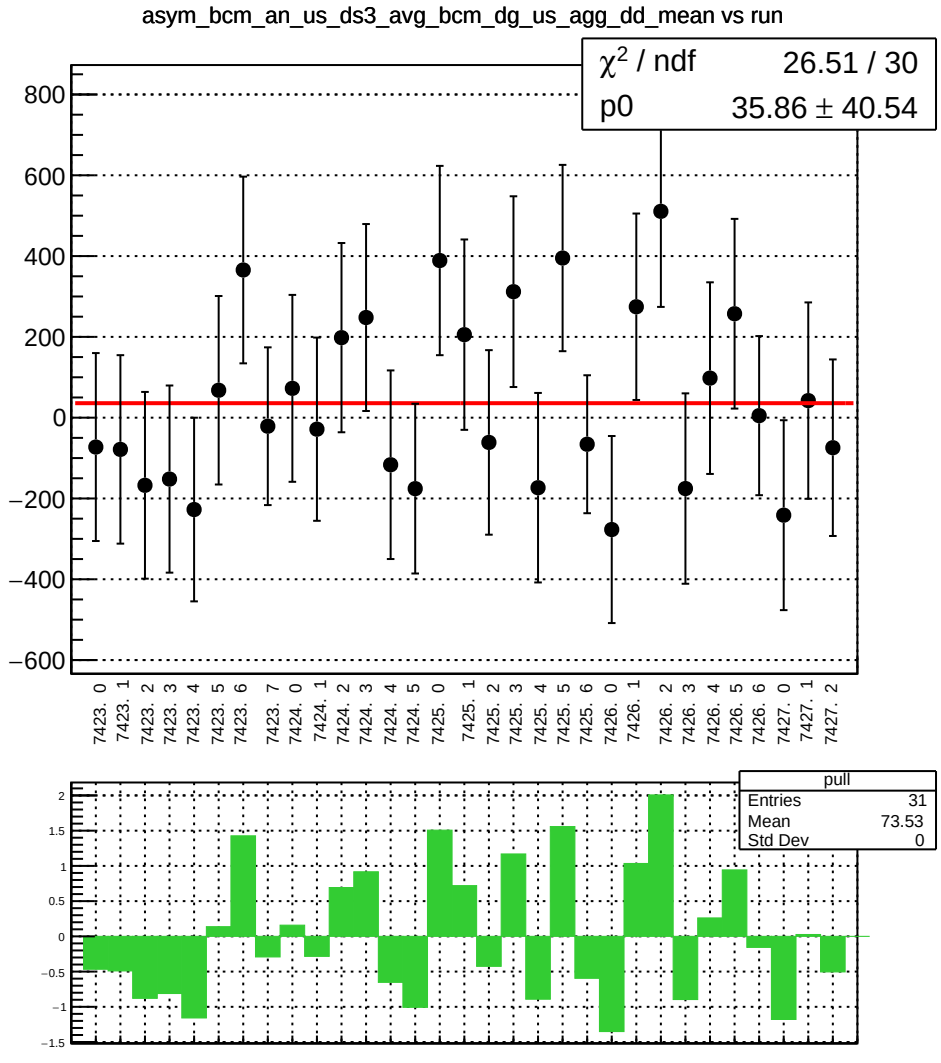

pull1D
Entries 31
Mean 0.01563
Std Dev 0.9276
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

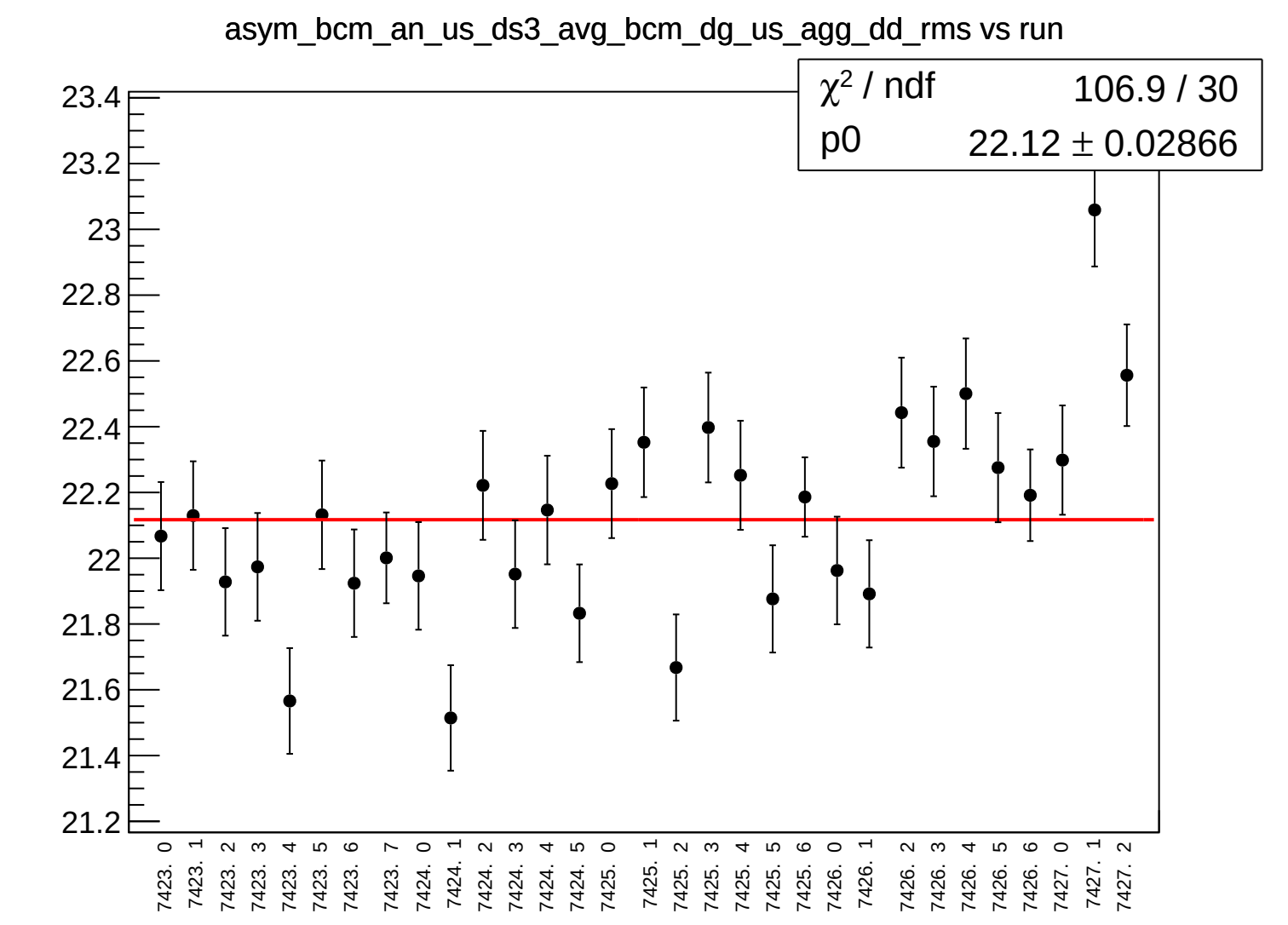

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 124.4 / 30
p0 22.24 ± 0.02882
23.5
23
22.5
22
21.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

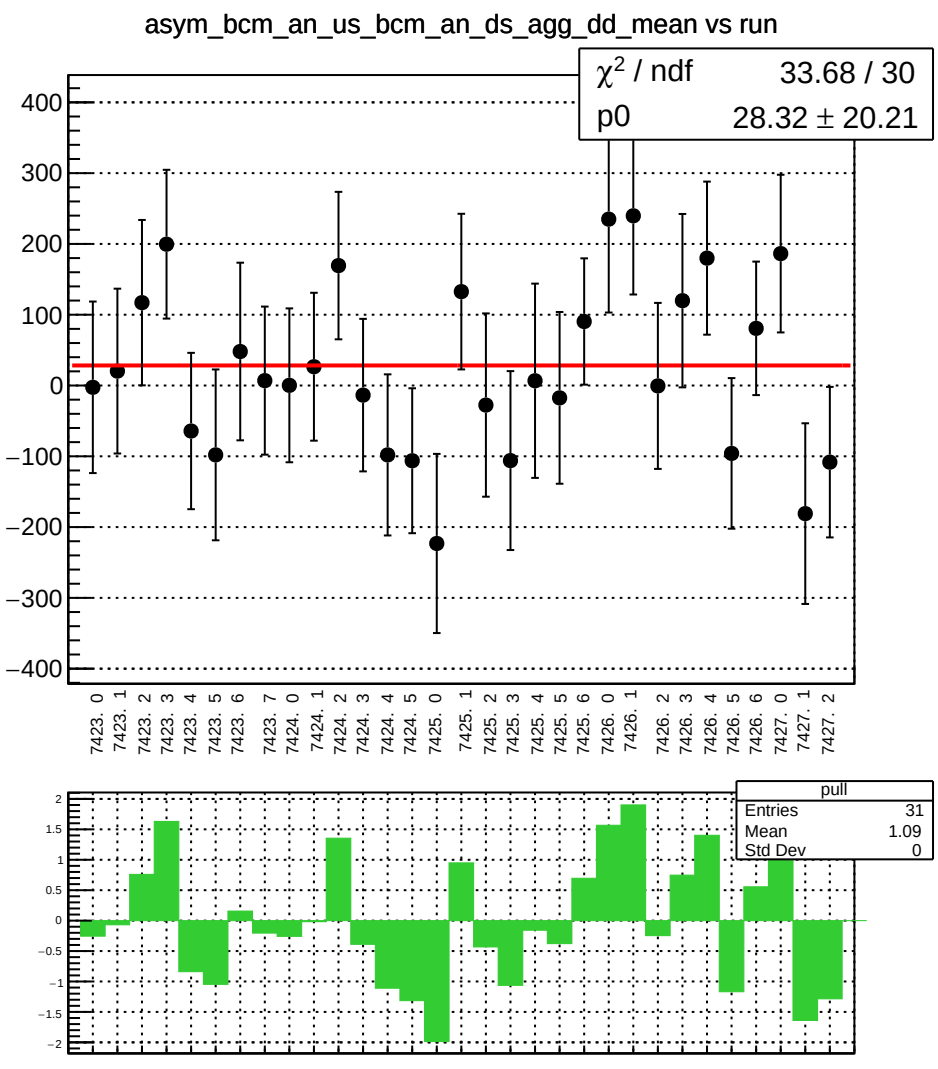

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 18.05 / 30
p0 −1.887 ± 30.47
500
400
300
200
100
0
−100
−200
−300
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −162.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

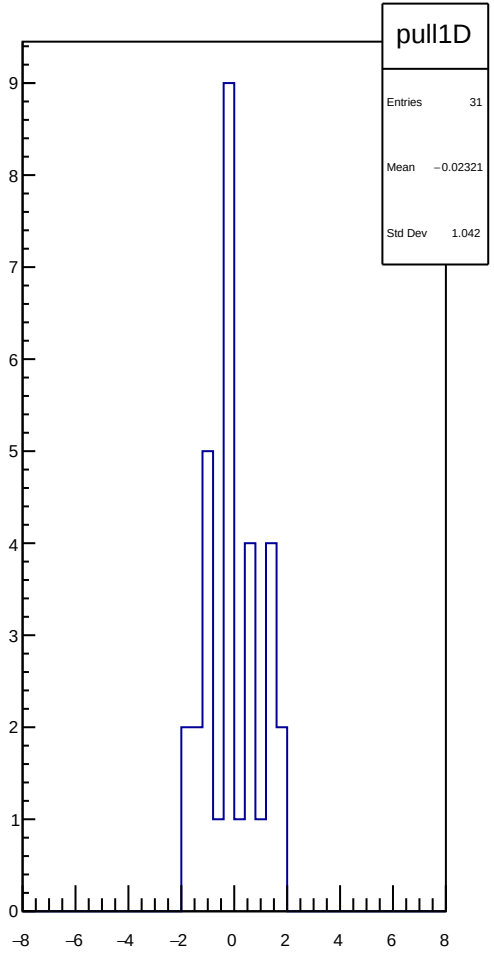

pull1D
Entries 31
Mean 0.01392
Std Dev 0.7628
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

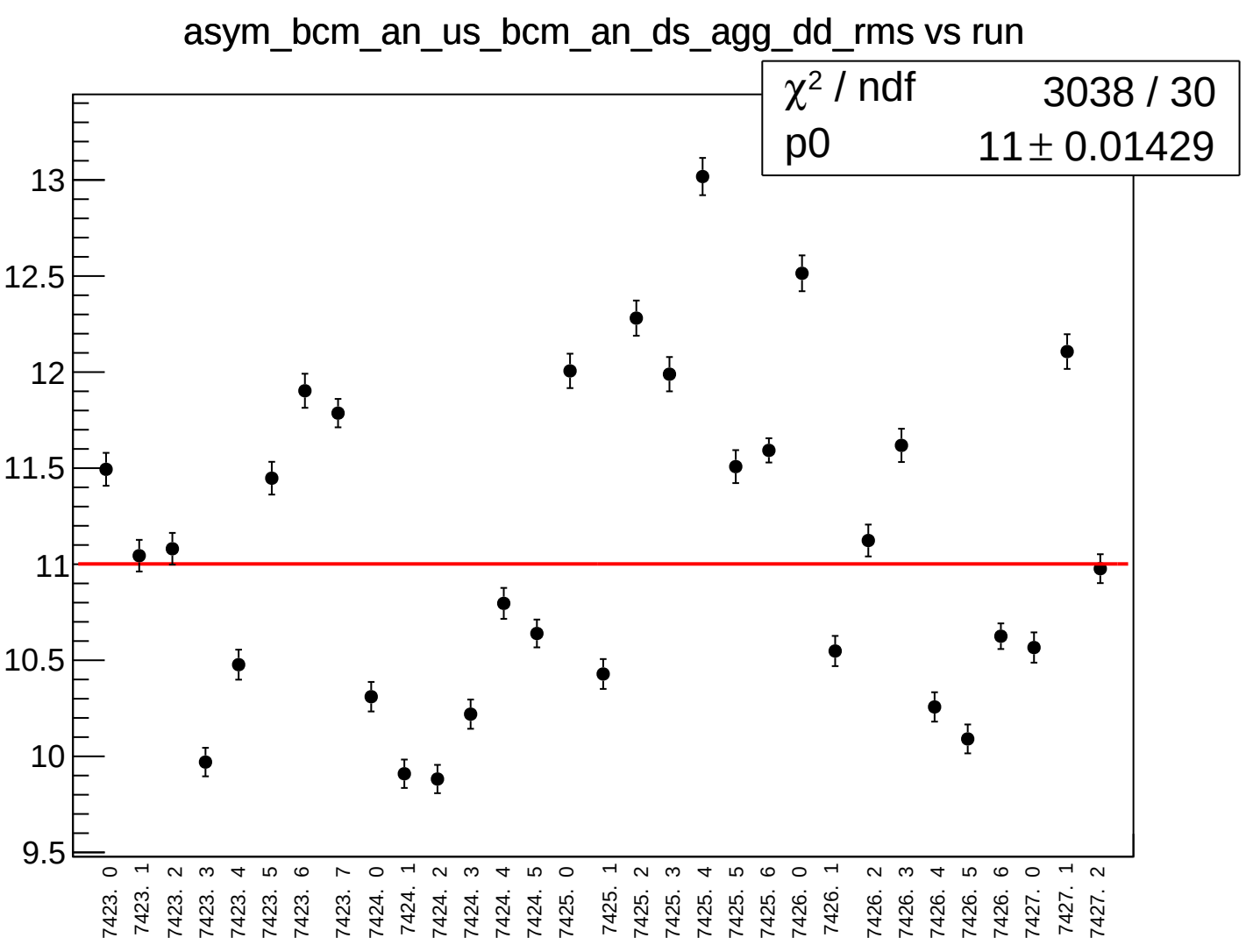

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 505.2 / 30
p0 16.62 ± 0.02155
17.5
17
16.5
16
15.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

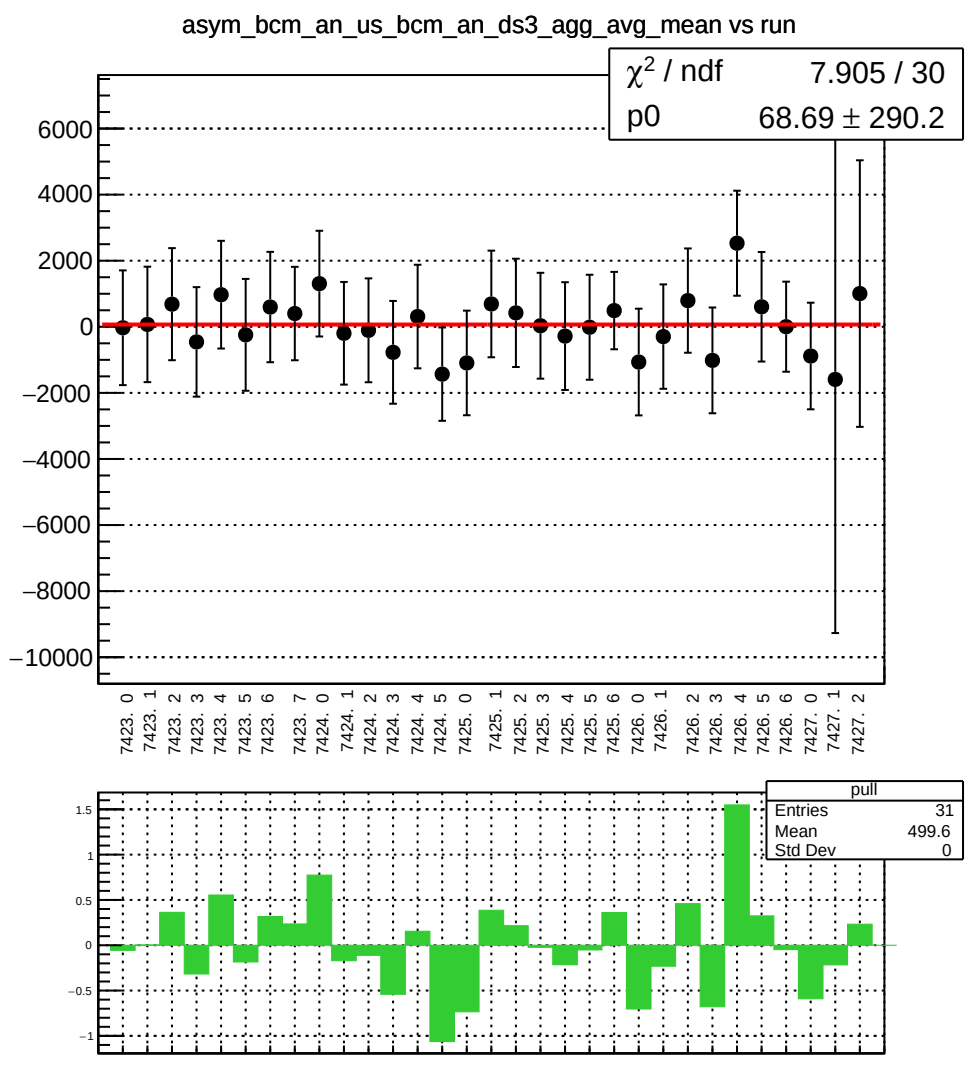

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 26.51 / 30
p0 35.86 ± 40.54
800
600
400
200
0
−200
−400
−600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 73.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01669
Std Dev 0.9246
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

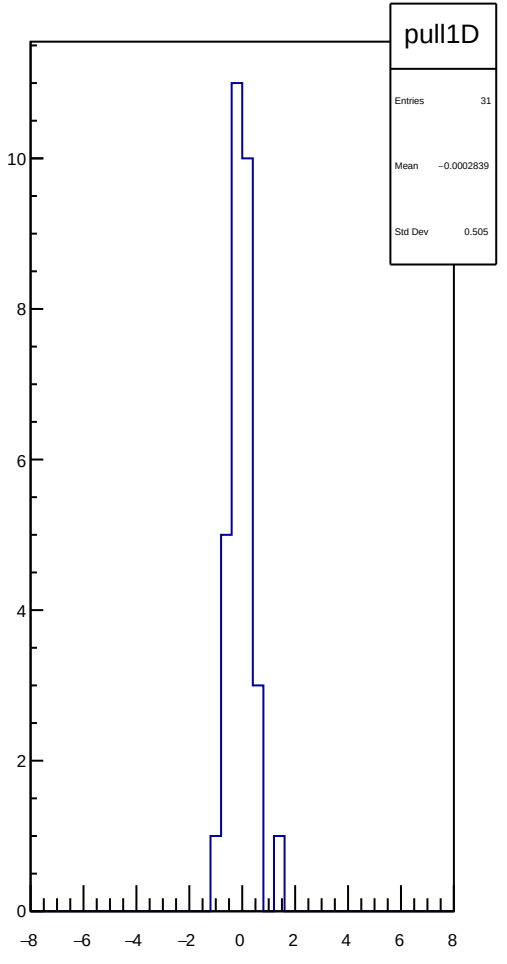

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 106.9 / 30
p0 22.12 ± 0.02866
23.4
23.2
23
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

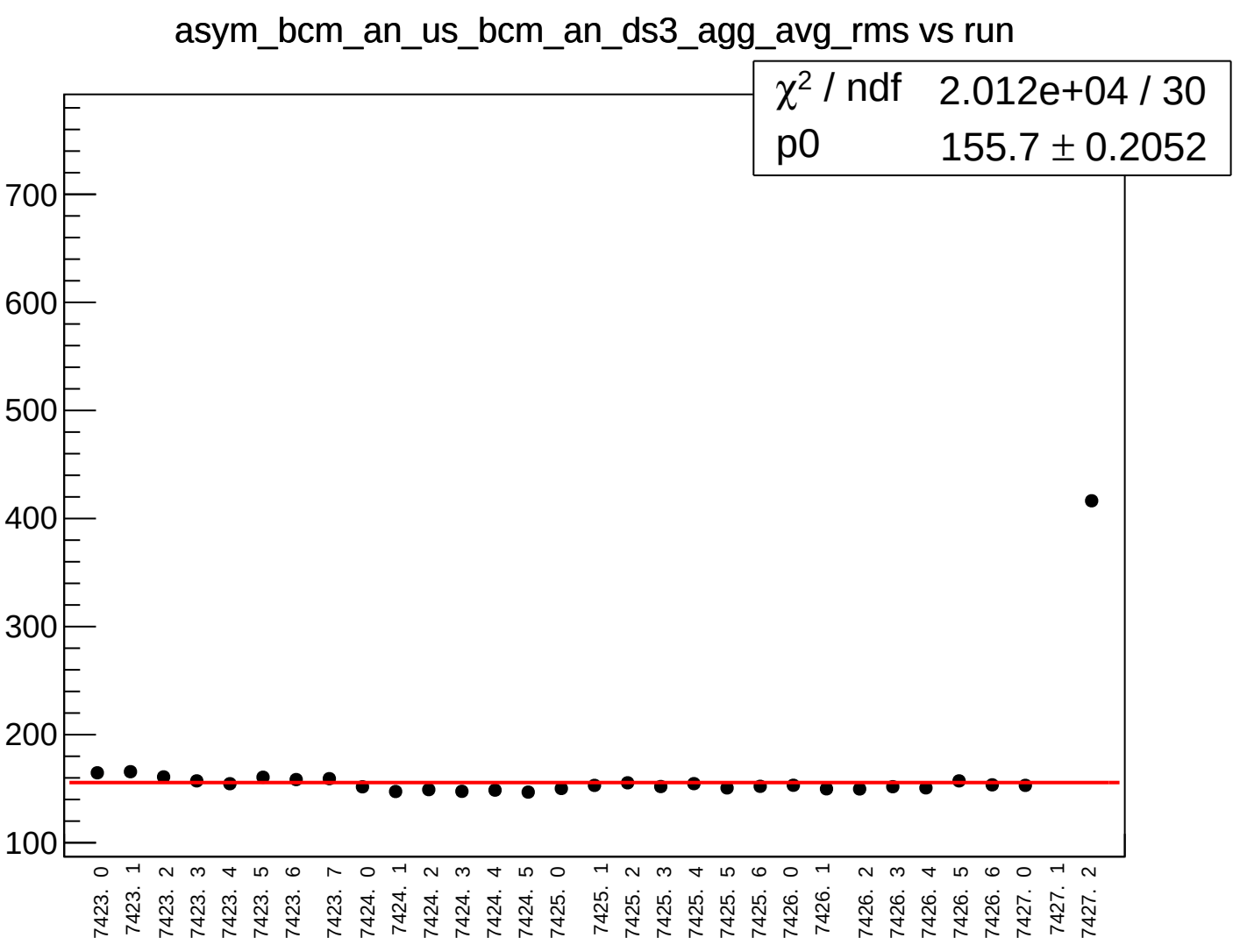

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 33.68 / 30
p0 28.32 ± 20.21
400
300
200
100
0
−100
−200
−300
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

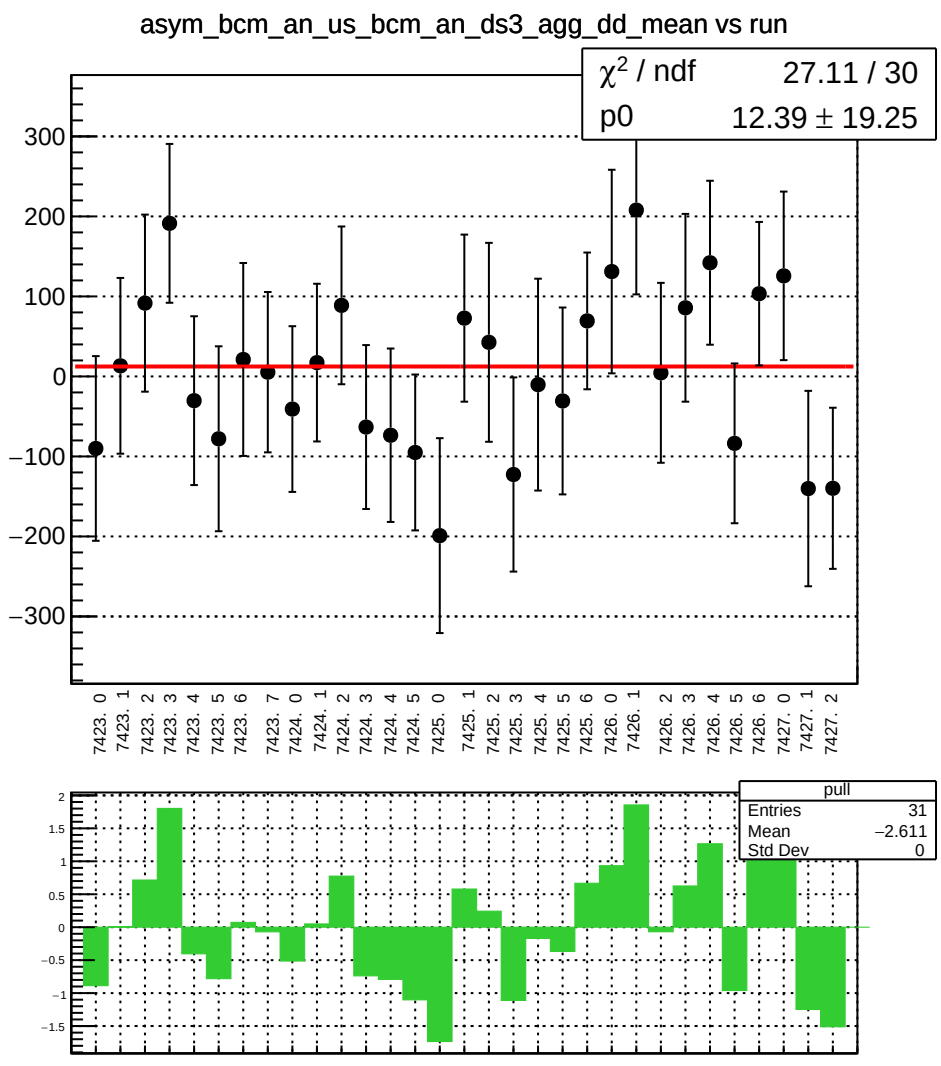

pull1D
Entries 31
Mean −0.02321
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

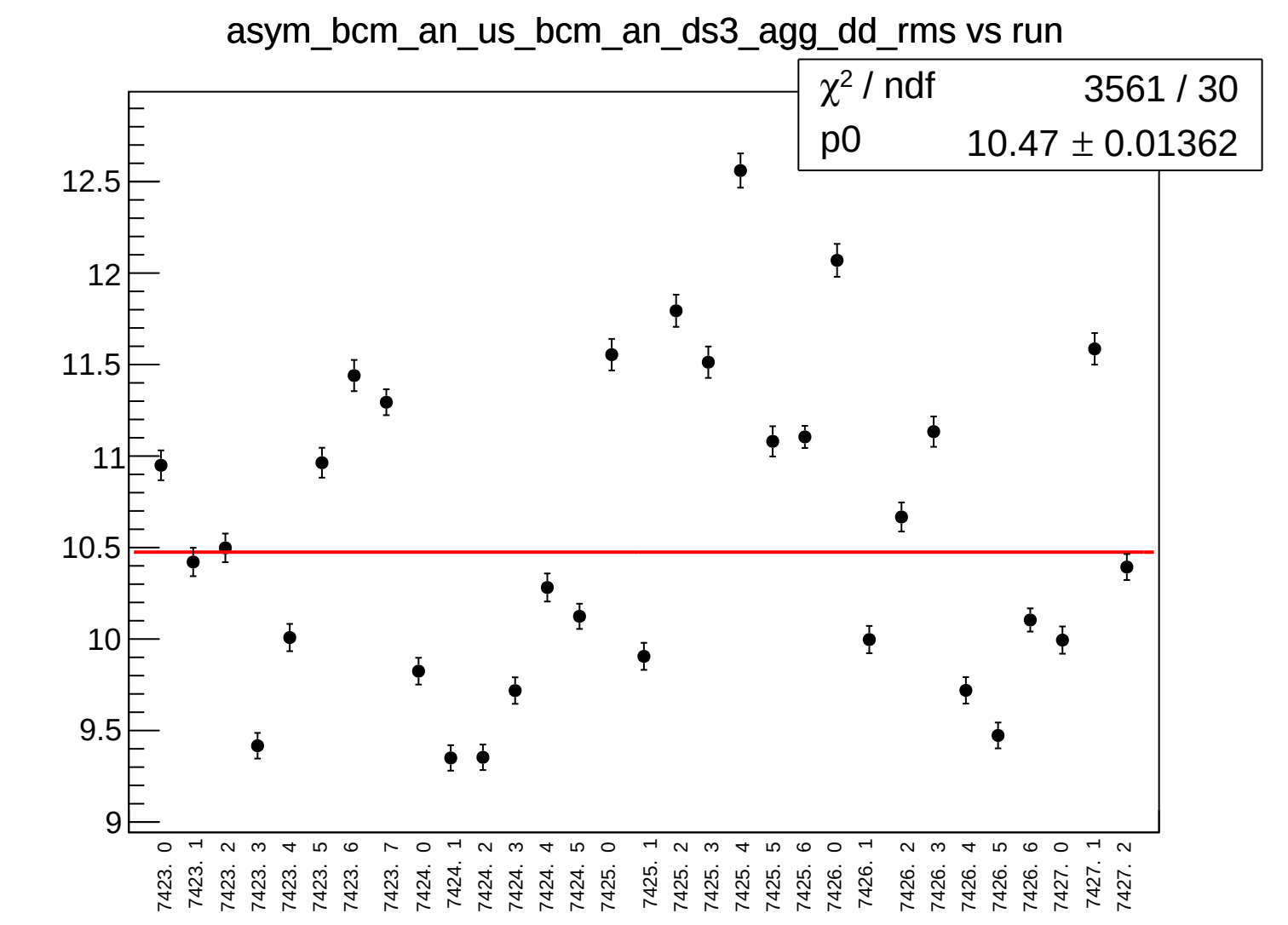

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3038 / 30
p0 11 ± 0.01429
13
12.5
12
11.5
11
10.5
10
9.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

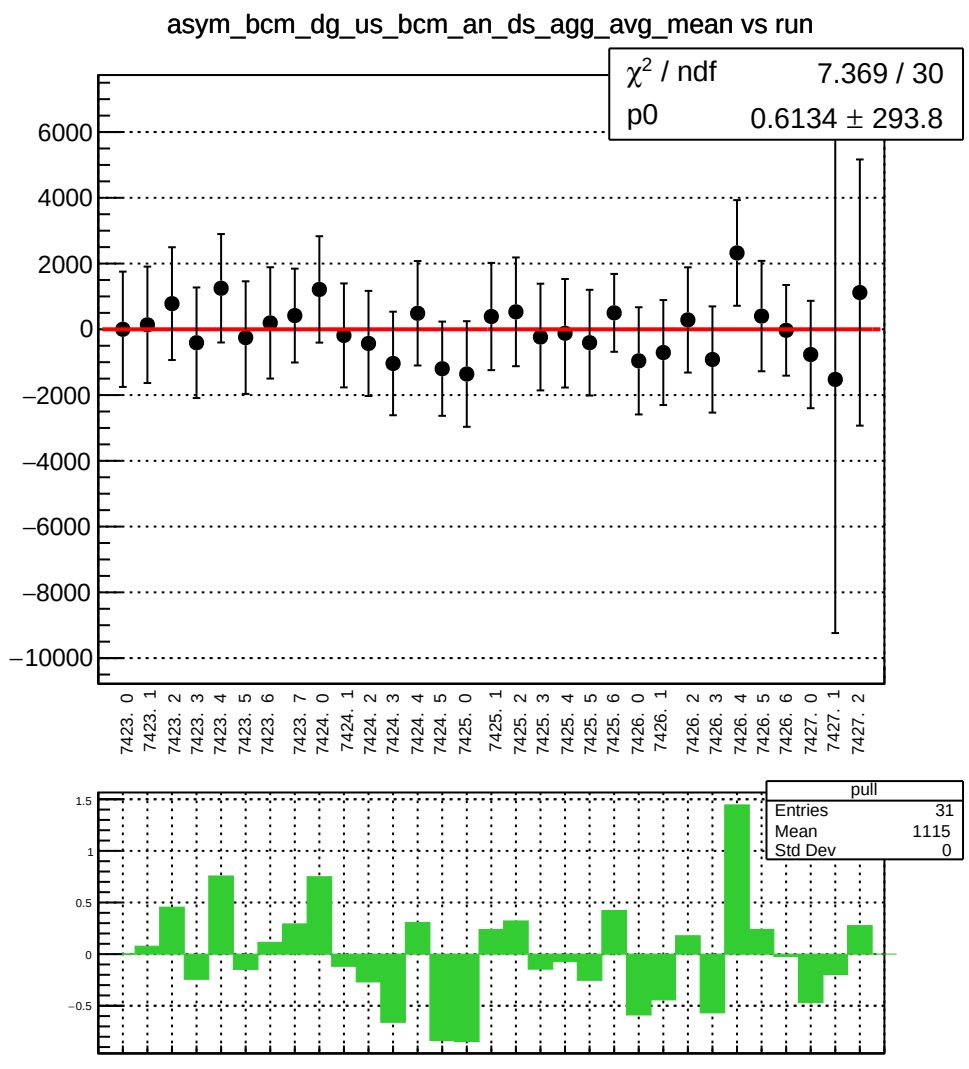

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 7.905 / 30
p0 68.69 ± 290.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 499.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

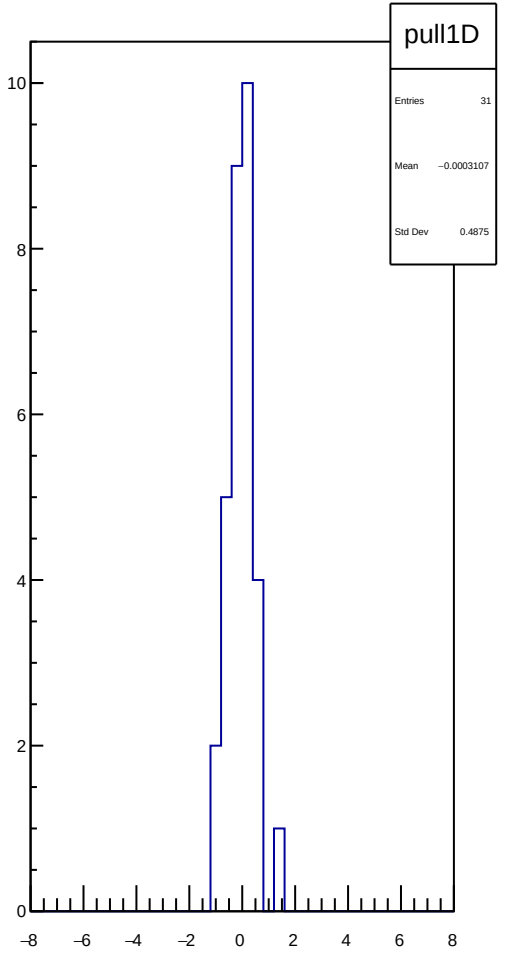

pull1D
Entries 31
Mean −0.0002839
Std Dev 0.505
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

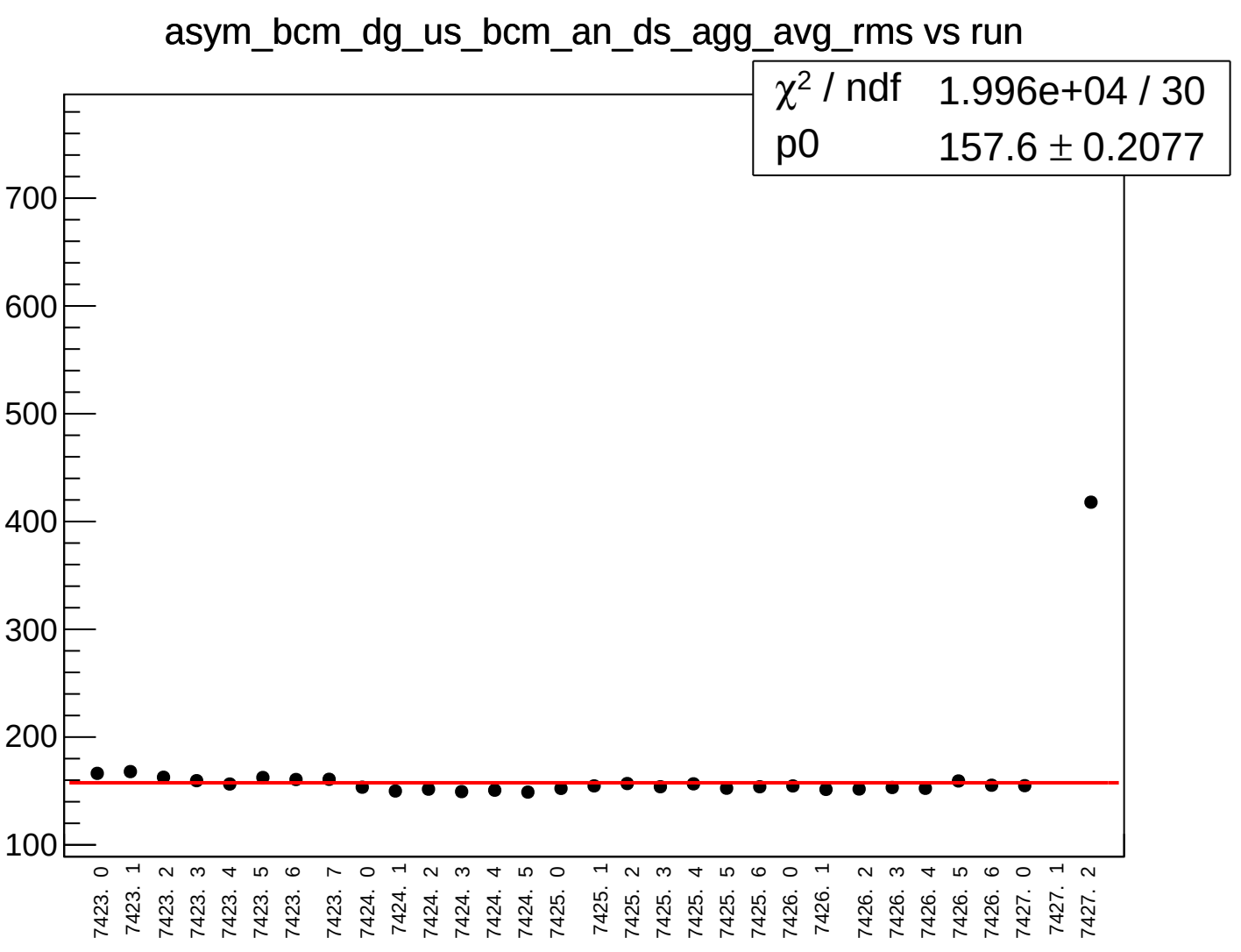

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.012e+04 / 30
p0 155.7 ± 0.2052
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

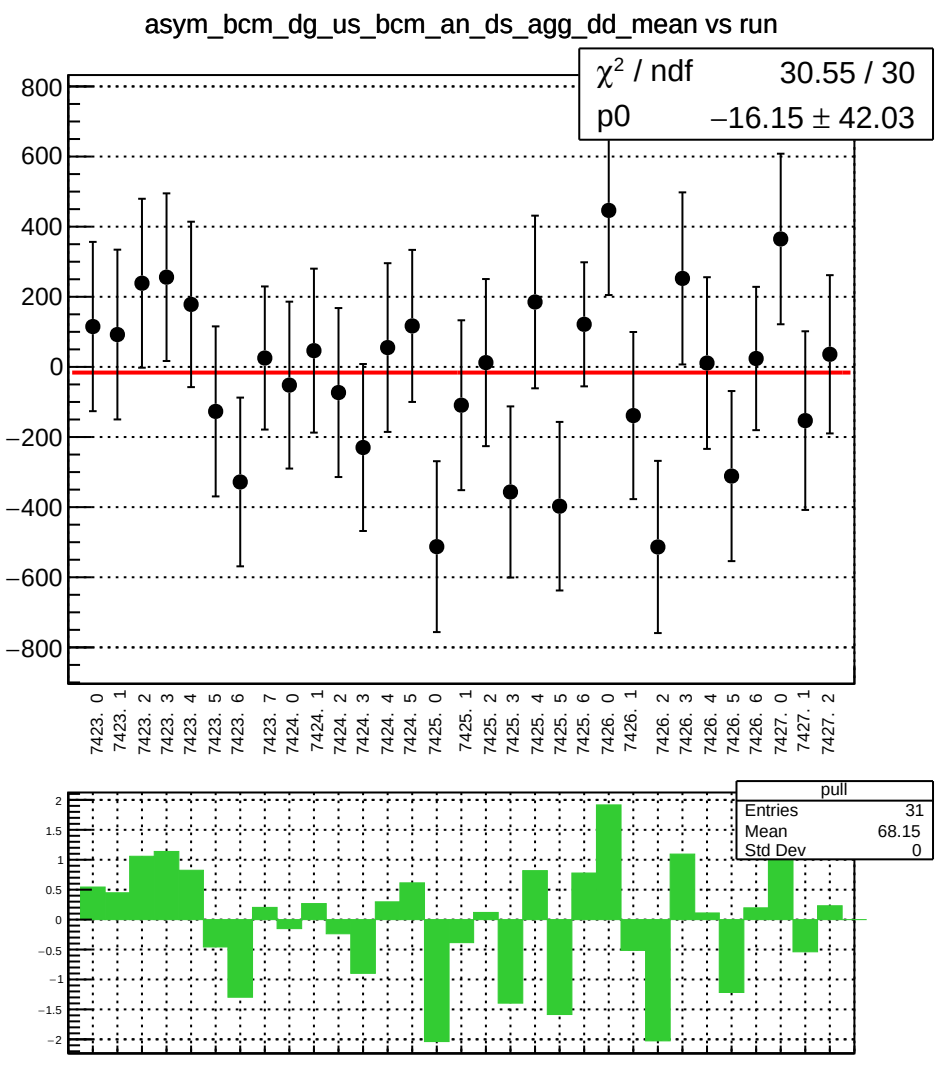

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 27.11 / 30
p0 12.39 ± 19.25
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −2.611
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.02534
Std Dev 0.9349
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

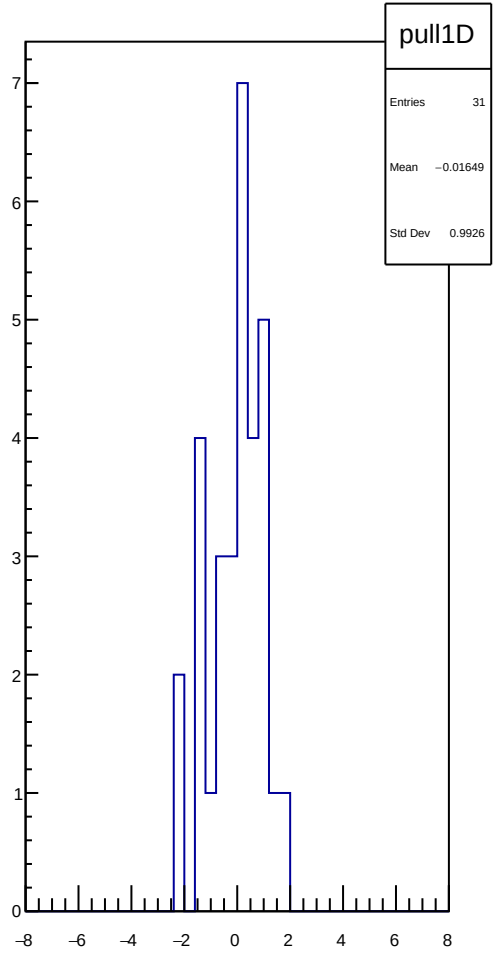

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3561 / 30
p0 10.47 ± 0.01362
12.5
12
11.5
11
10.5
10
9.5
9
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

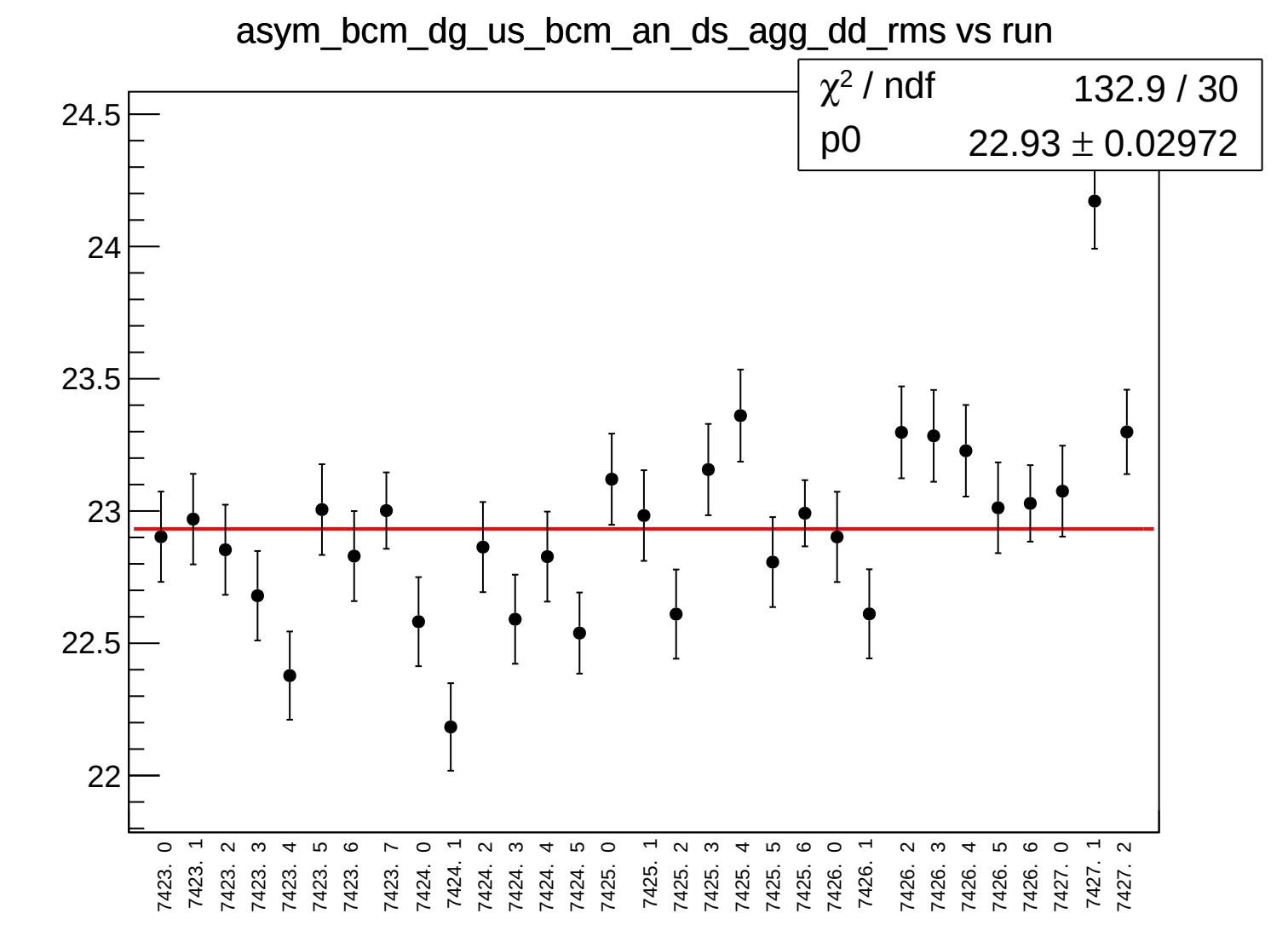

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.369 / 30
p0 0.6134 ± 293.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1115
Std Dev 0
1.5
1
0.5
0
−0.5

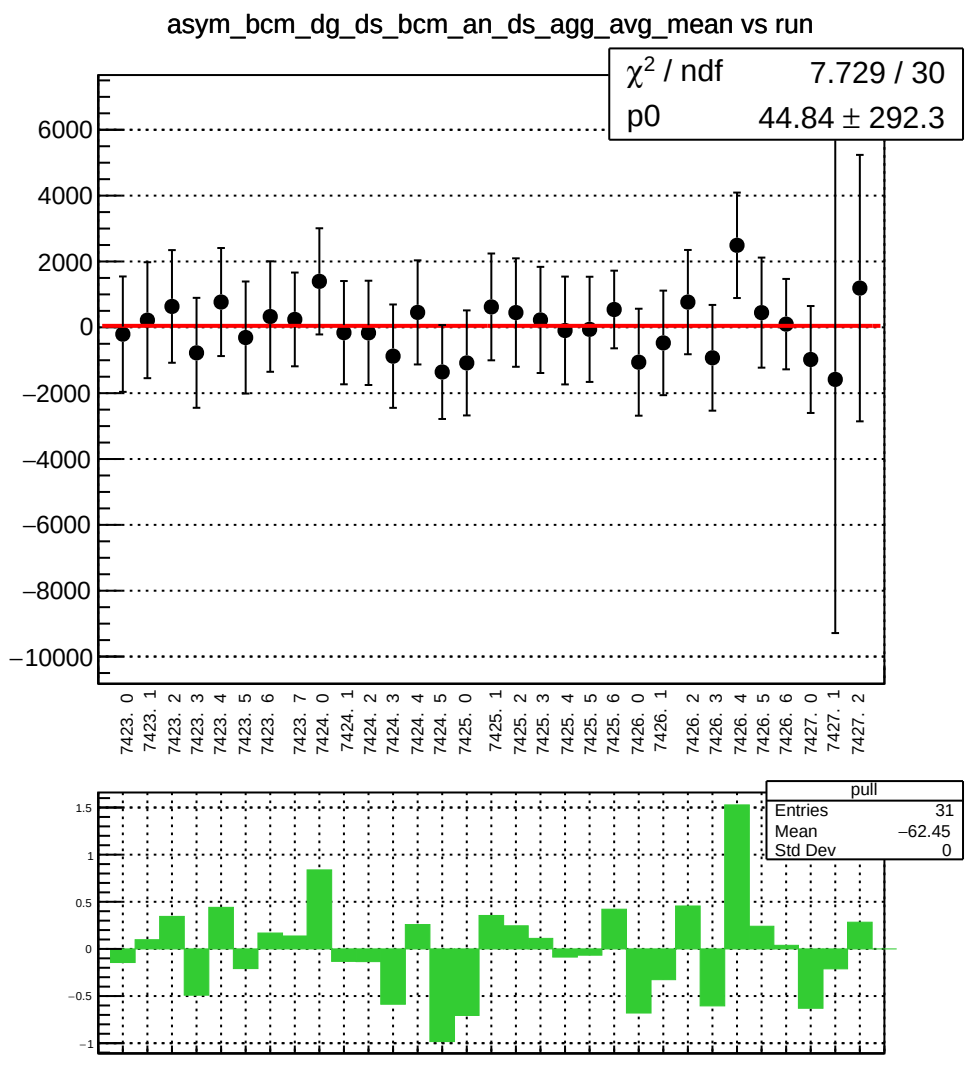

pull1D
Entries 31
Mean −0.0003107
Std Dev 0.4875
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

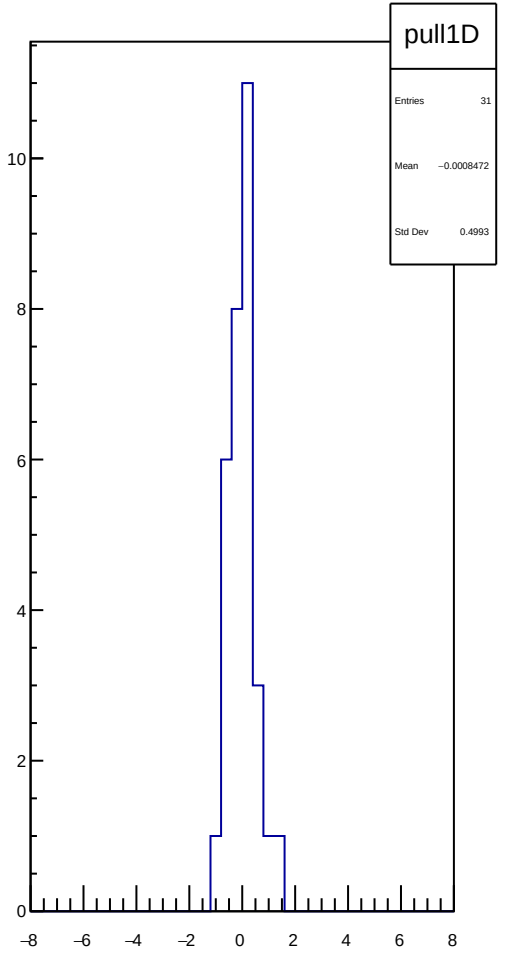

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.996e+04 / 30
p0 157.6 ± 0.2077
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

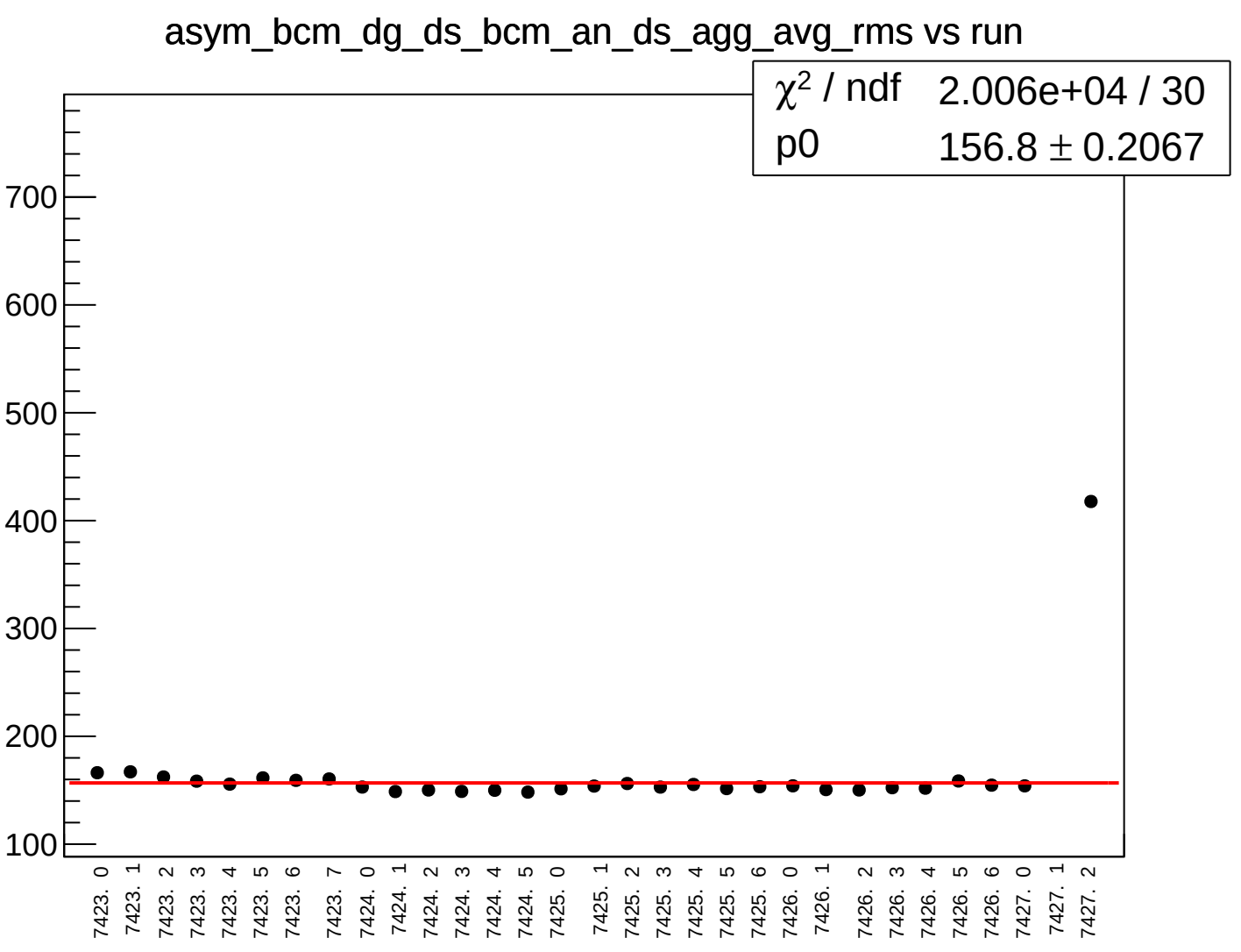

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 30.55 / 30
p0 −16.15 ± 42.03
800
600
400
200
0
−200
−400
−600
−800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

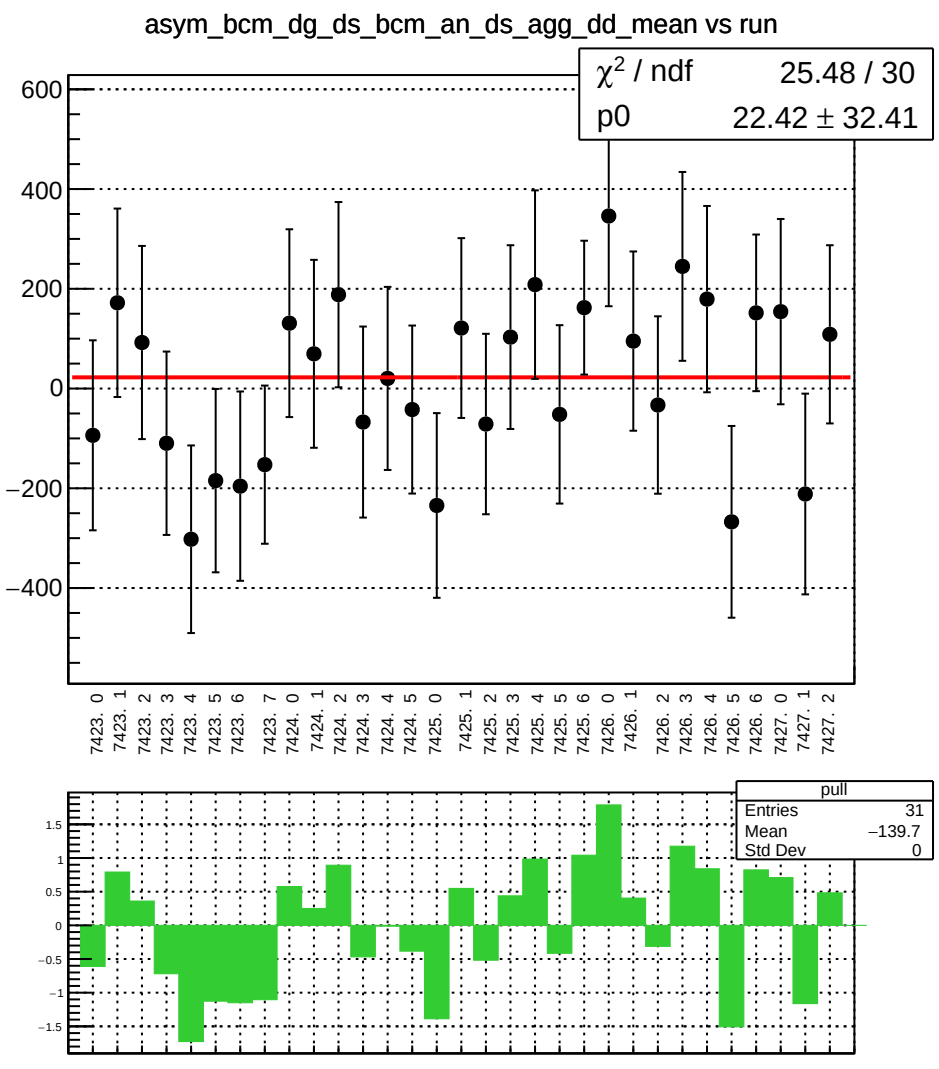

pull1D
Entries 31
Mean −0.01649
Std Dev 0.9926
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

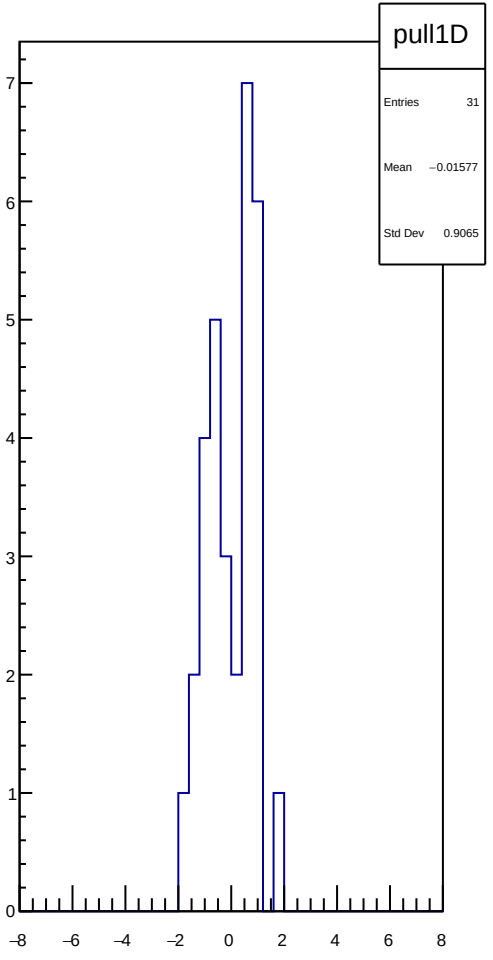

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 132.9 / 30
p0 22.93 ± 0.02972
24.5
24
23.5
23
22.5
22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

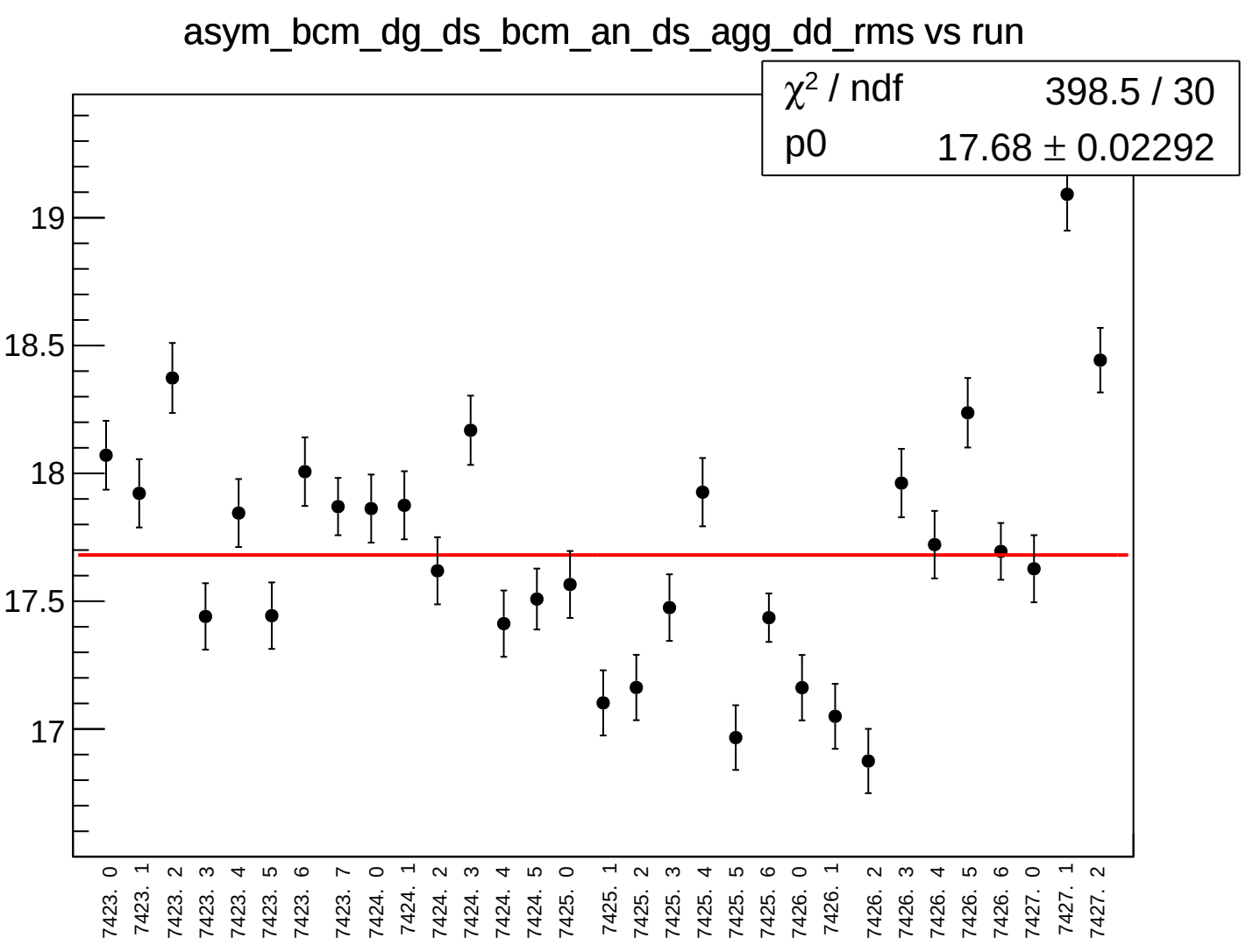

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.729 / 30
p0 44.84 ± 292.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −62.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1

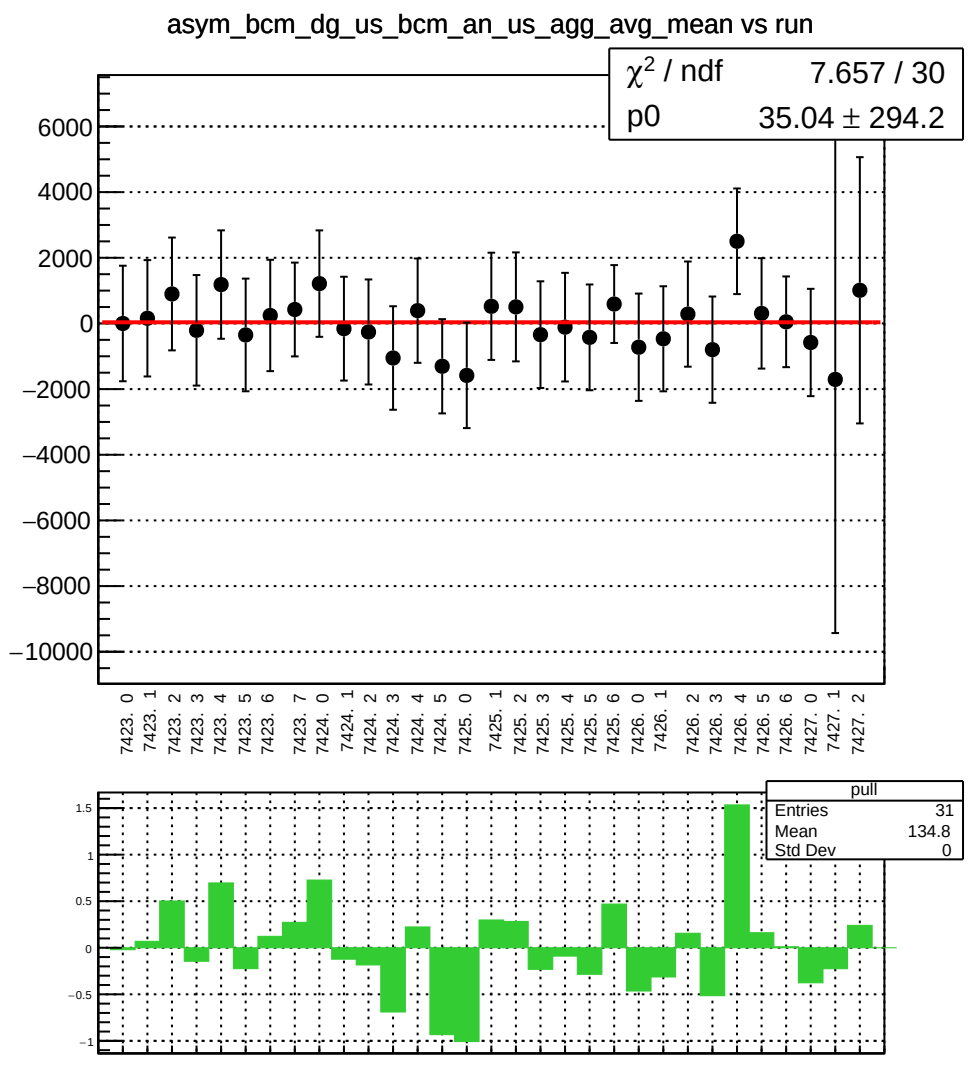

pull1D
Entries 31
Mean −0.0008472
Std Dev 0.4993
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

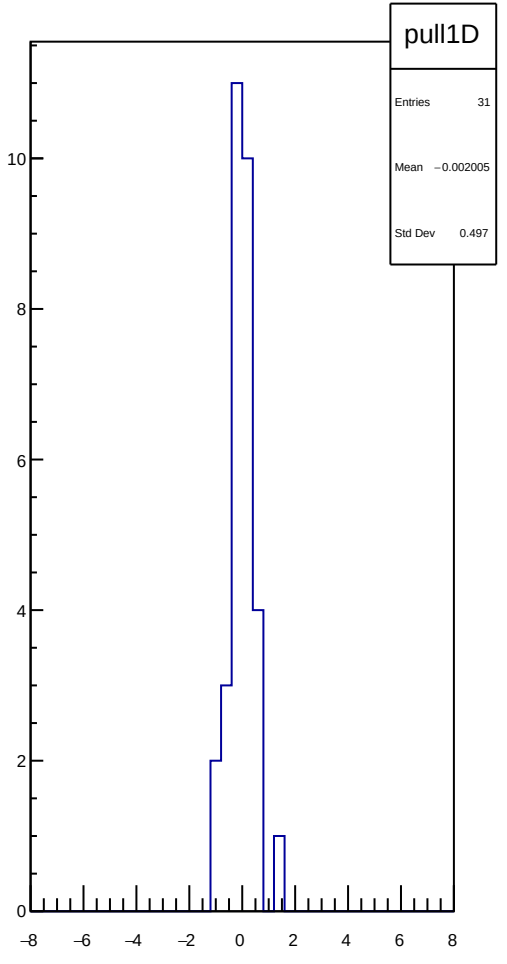

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.006e+04 / 30
p0 156.8 ± 0.2067
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

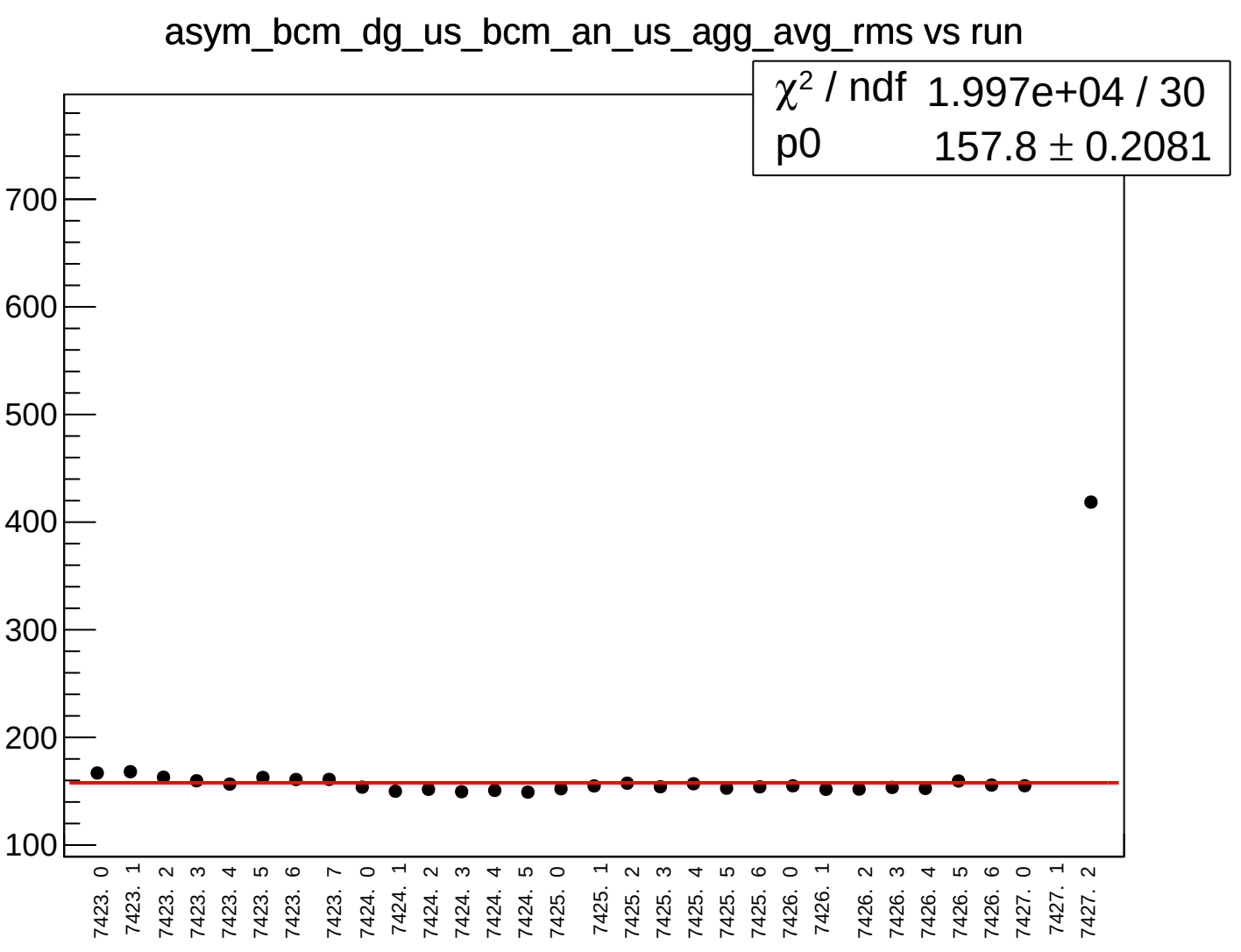

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 25.48 / 30
p0 22.42 ± 32.41
600
400
200
0
−200
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −139.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

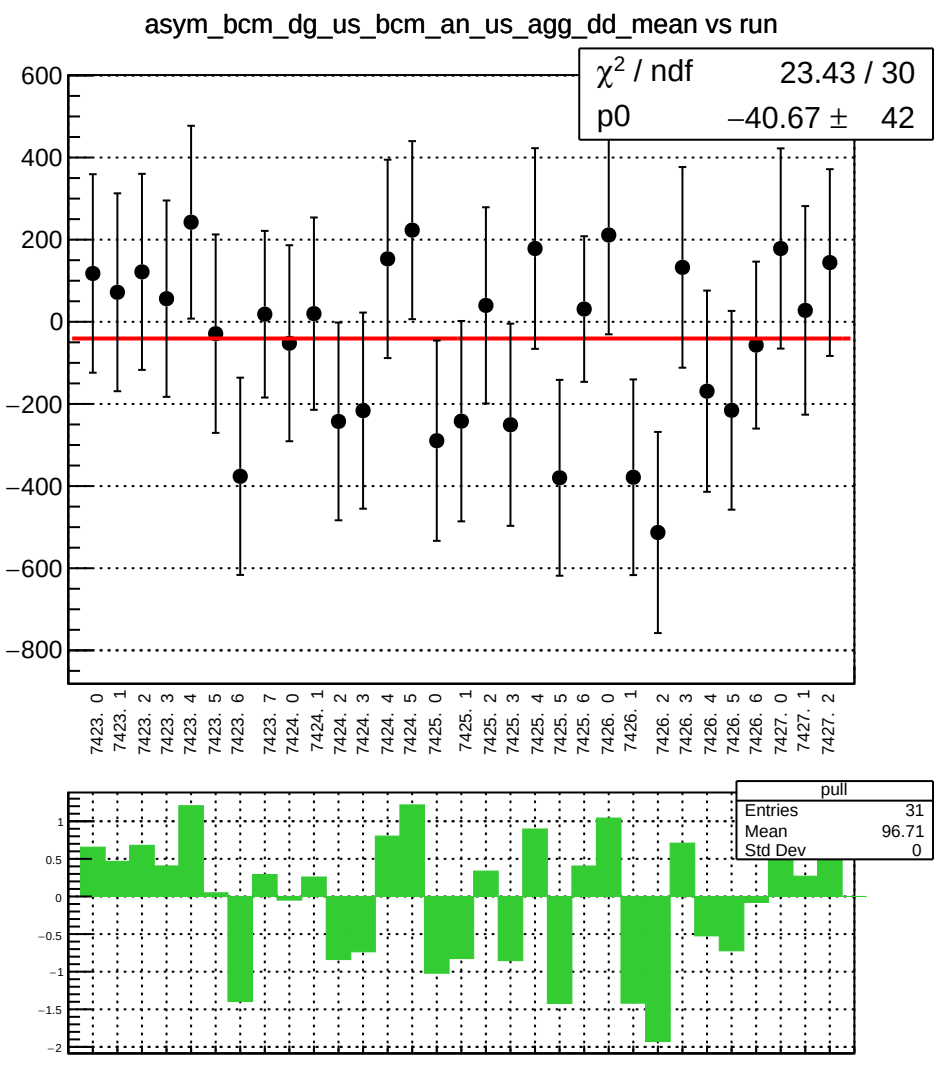

pull1D
Entries 31
Mean −0.01577
Std Dev 0.9065
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

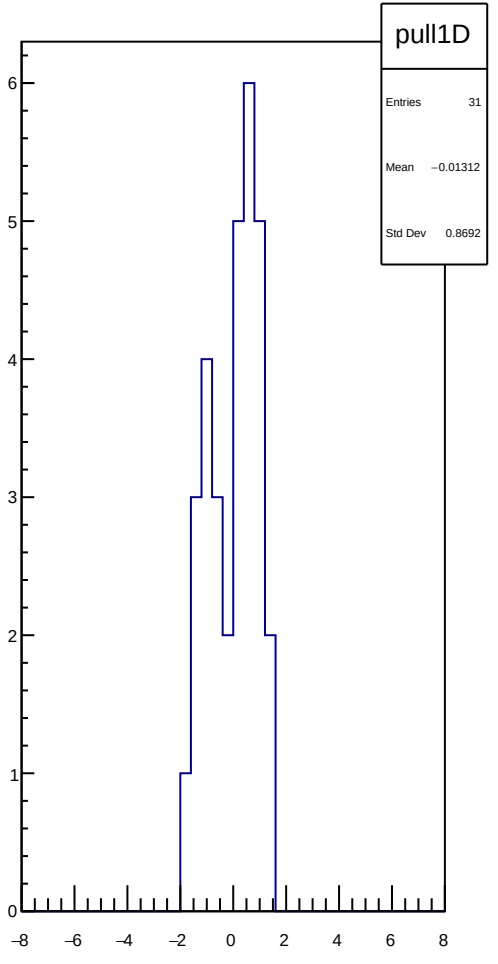

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 398.5 / 30
p0 17.68 ± 0.02292
19
18.5
18
17.5
17
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

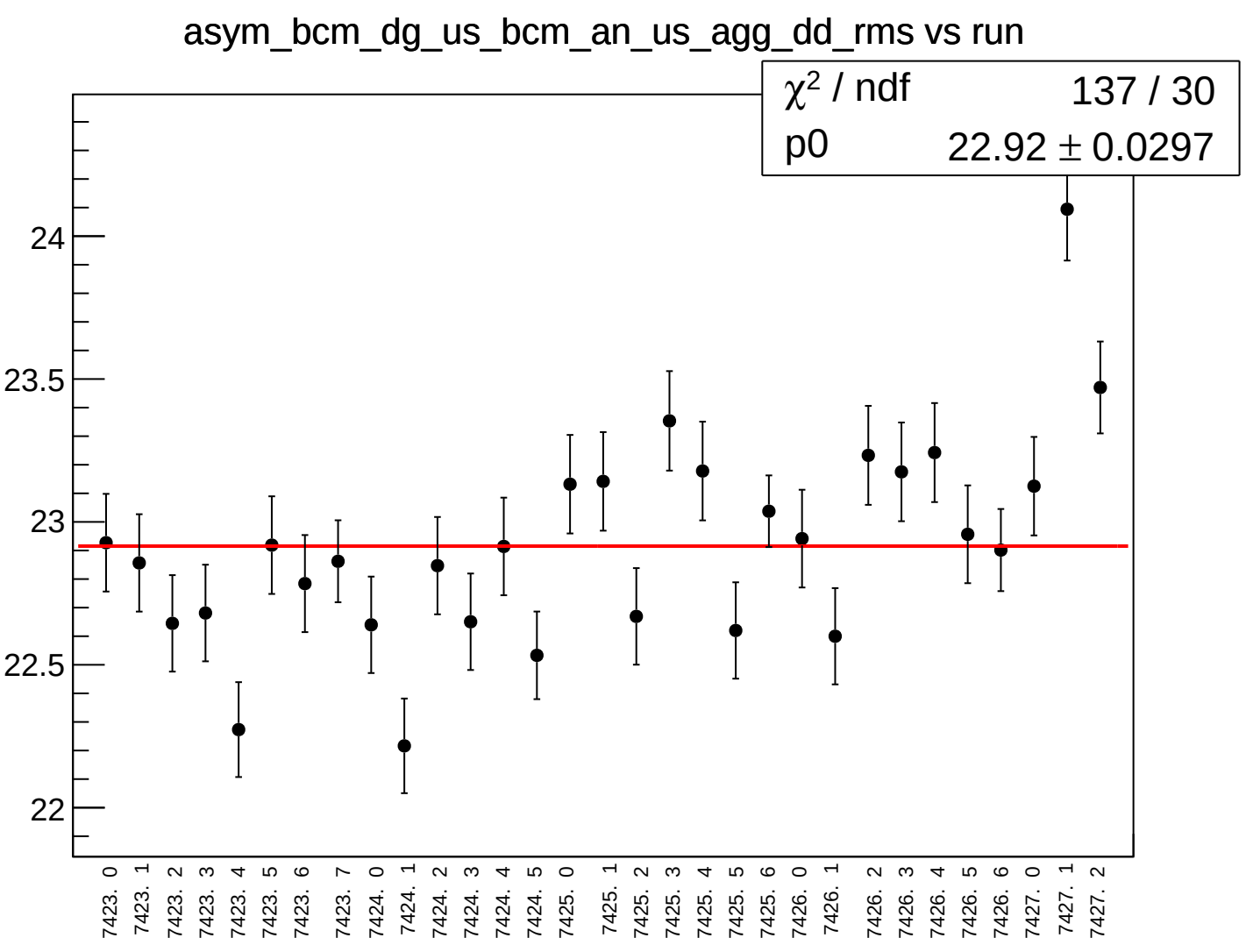

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.657 / 30
p0 35.04 ± 294.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 134.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

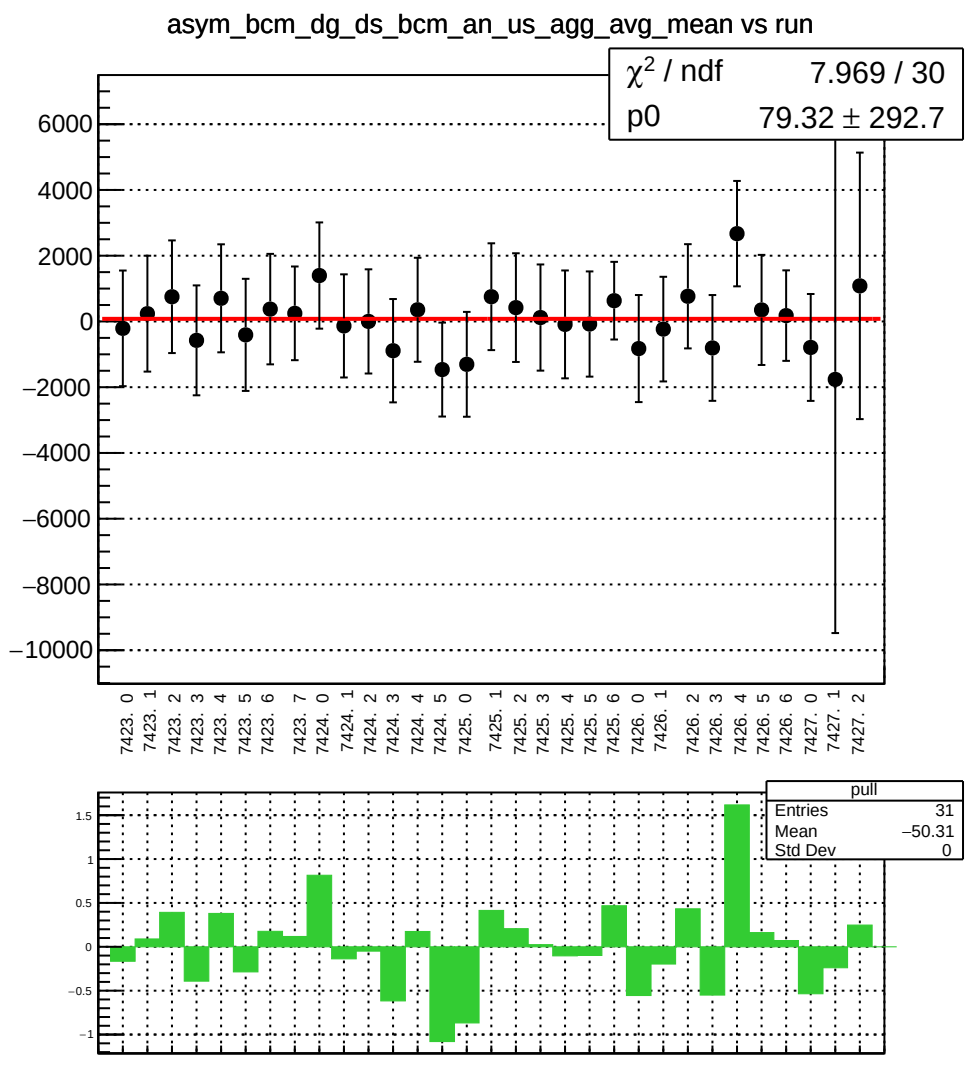

pull1D
Entries 31
Mean −0.002005
Std Dev 0.497
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

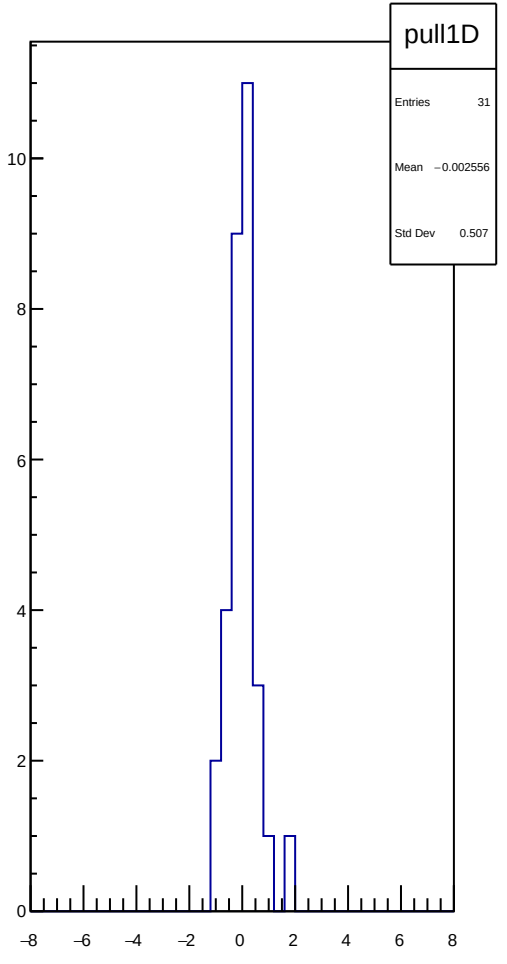

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.997e+04 / 30
p0 157.8 ± 0.2081
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

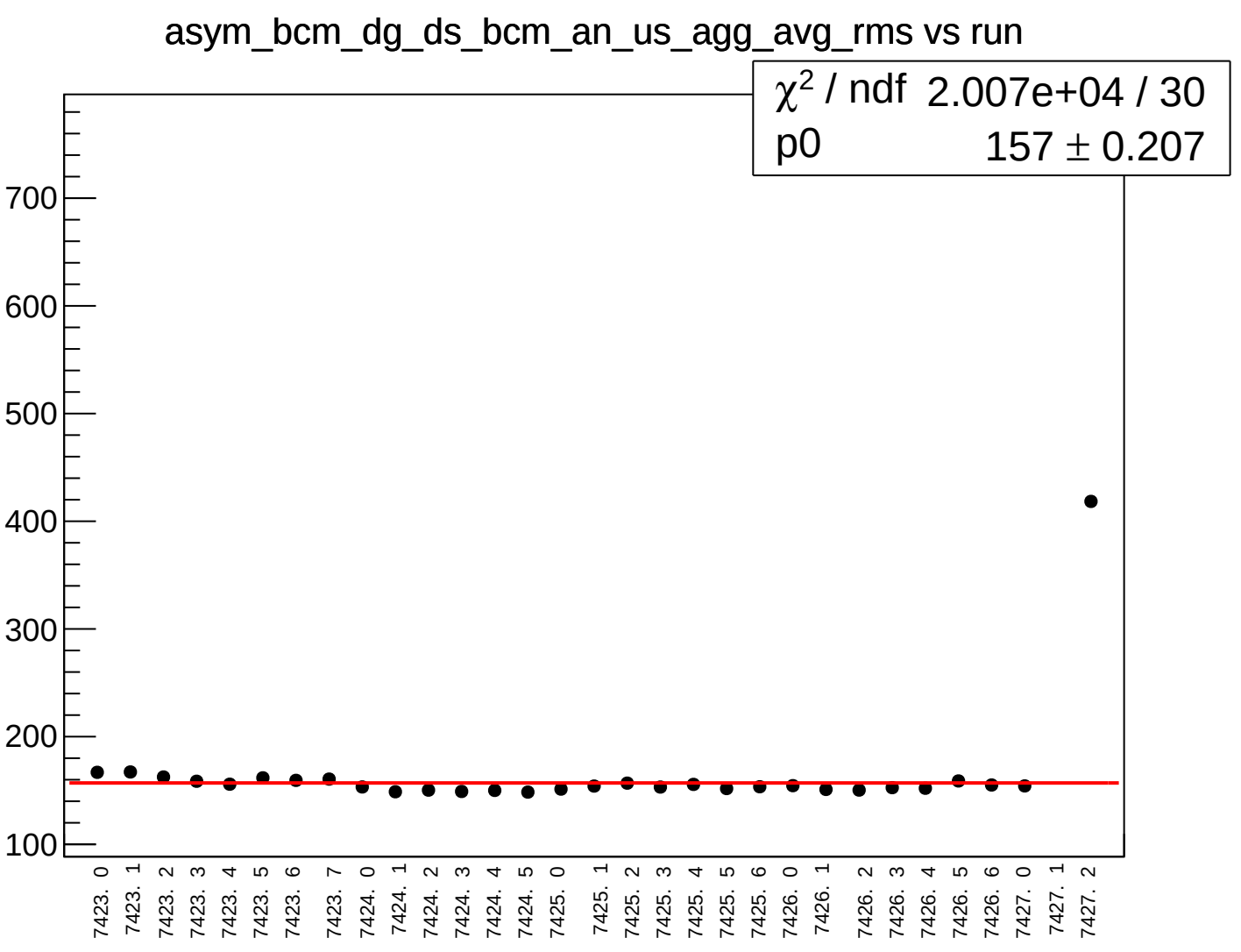

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 23.43 / 30
p0 −40.67 ± 42
600
400
200
0
−200
−400
−600
−800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 96.71
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

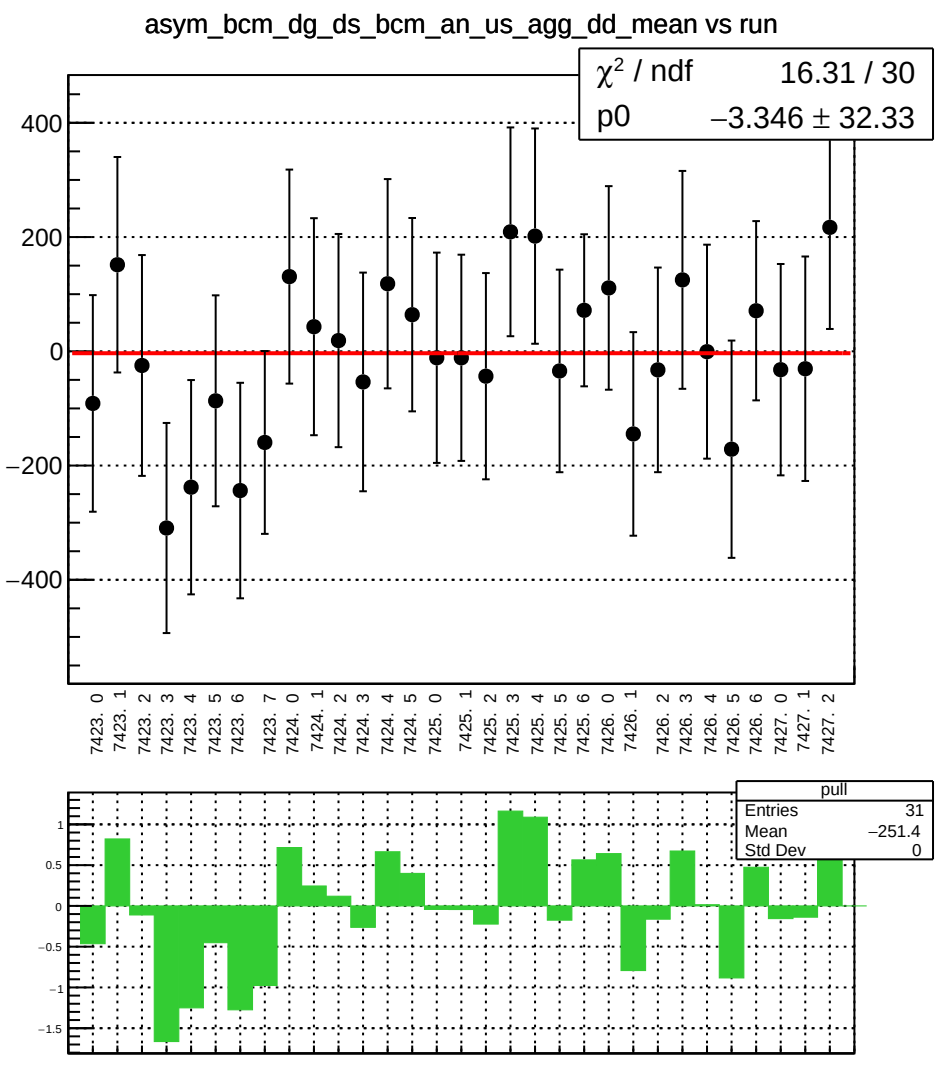

pull1D
Entries 31
Mean −0.01312
Std Dev 0.8692
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

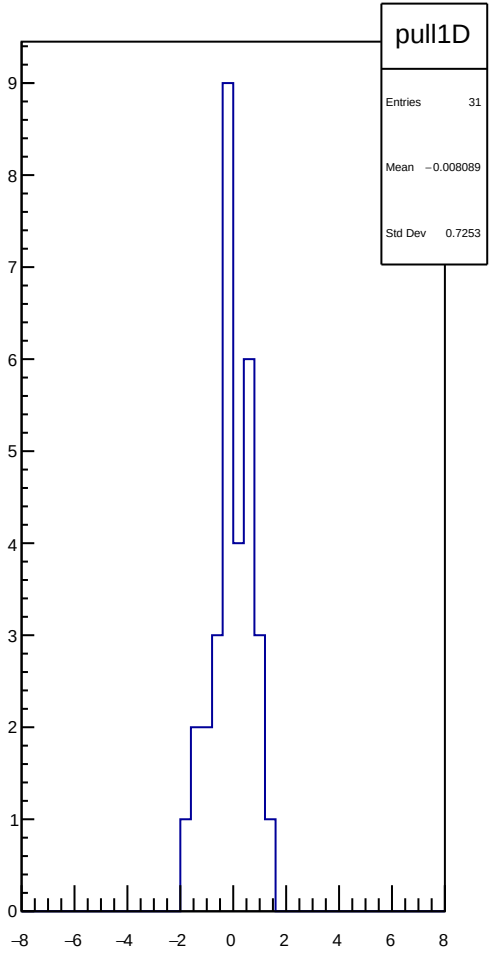

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 137 / 30
p0 22.92 ± 0.0297
24
23.5
23
22.5
22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

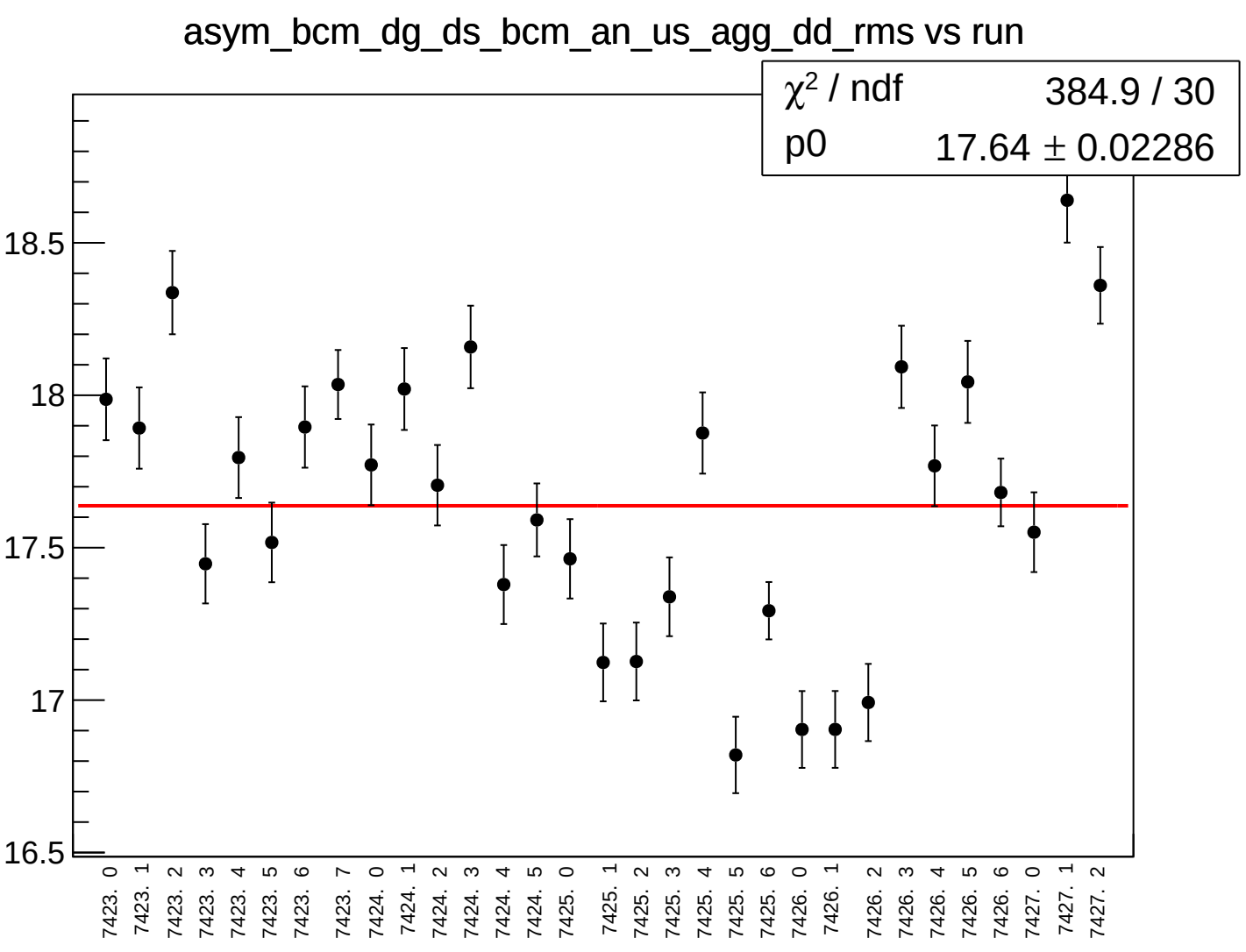

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.969 / 30
p0 79.32 ± 292.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −50.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1

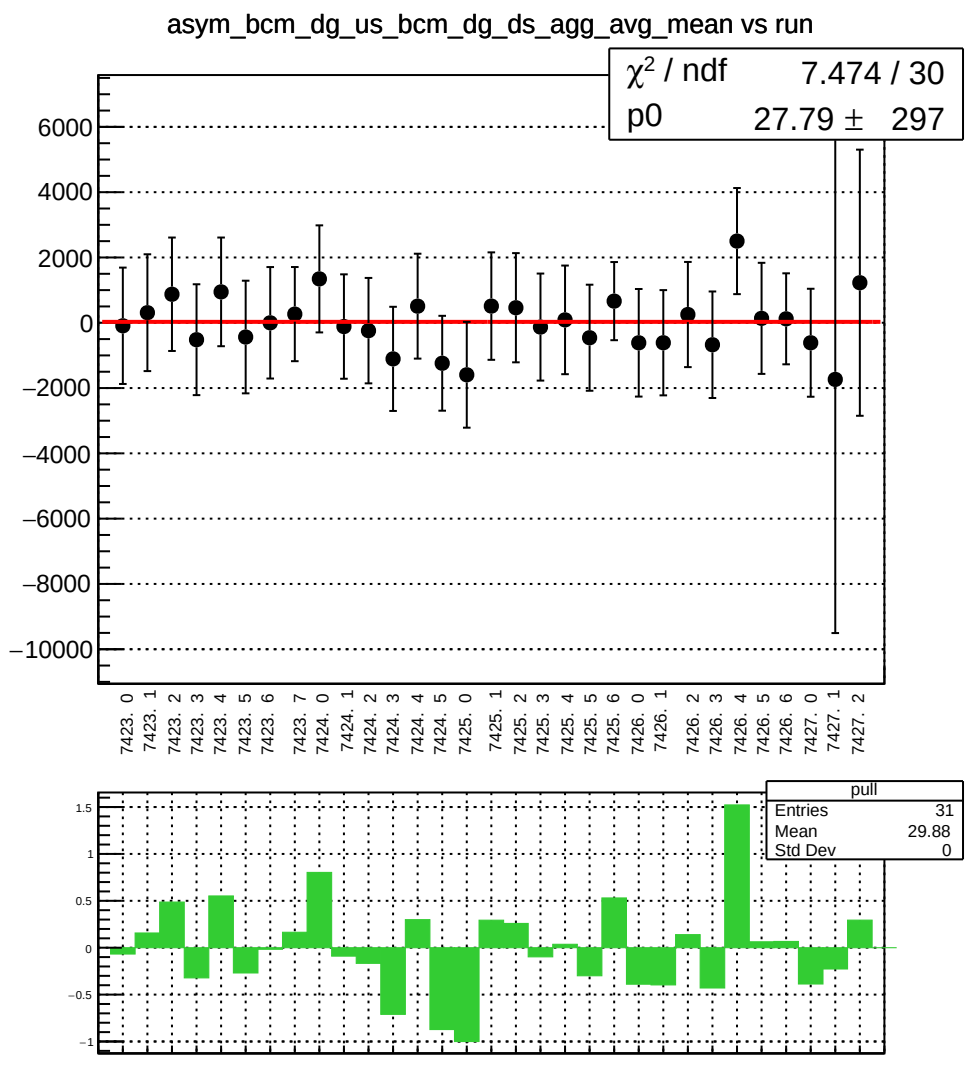

pull1D
Entries 31
Mean −0.002556
Std Dev 0.507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

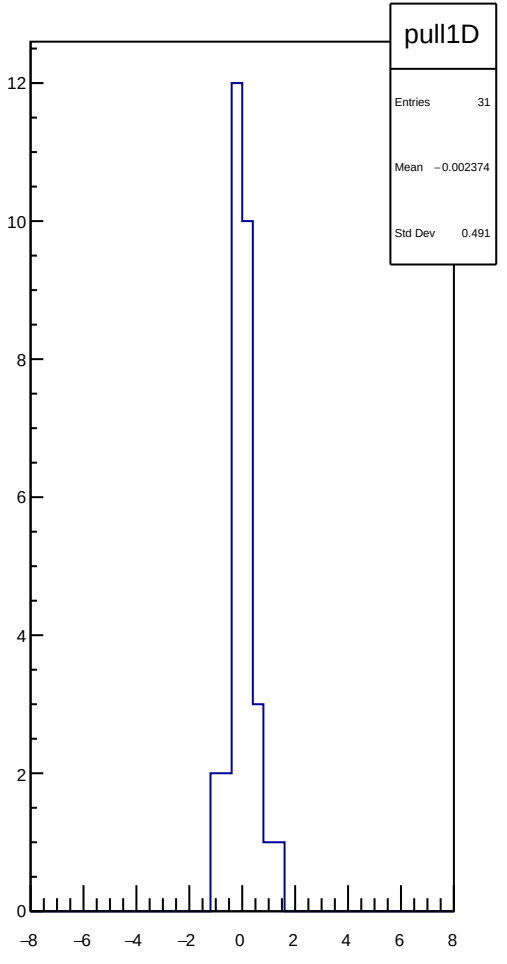

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.007e+04 / 30
p0 157 ± 0.207
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

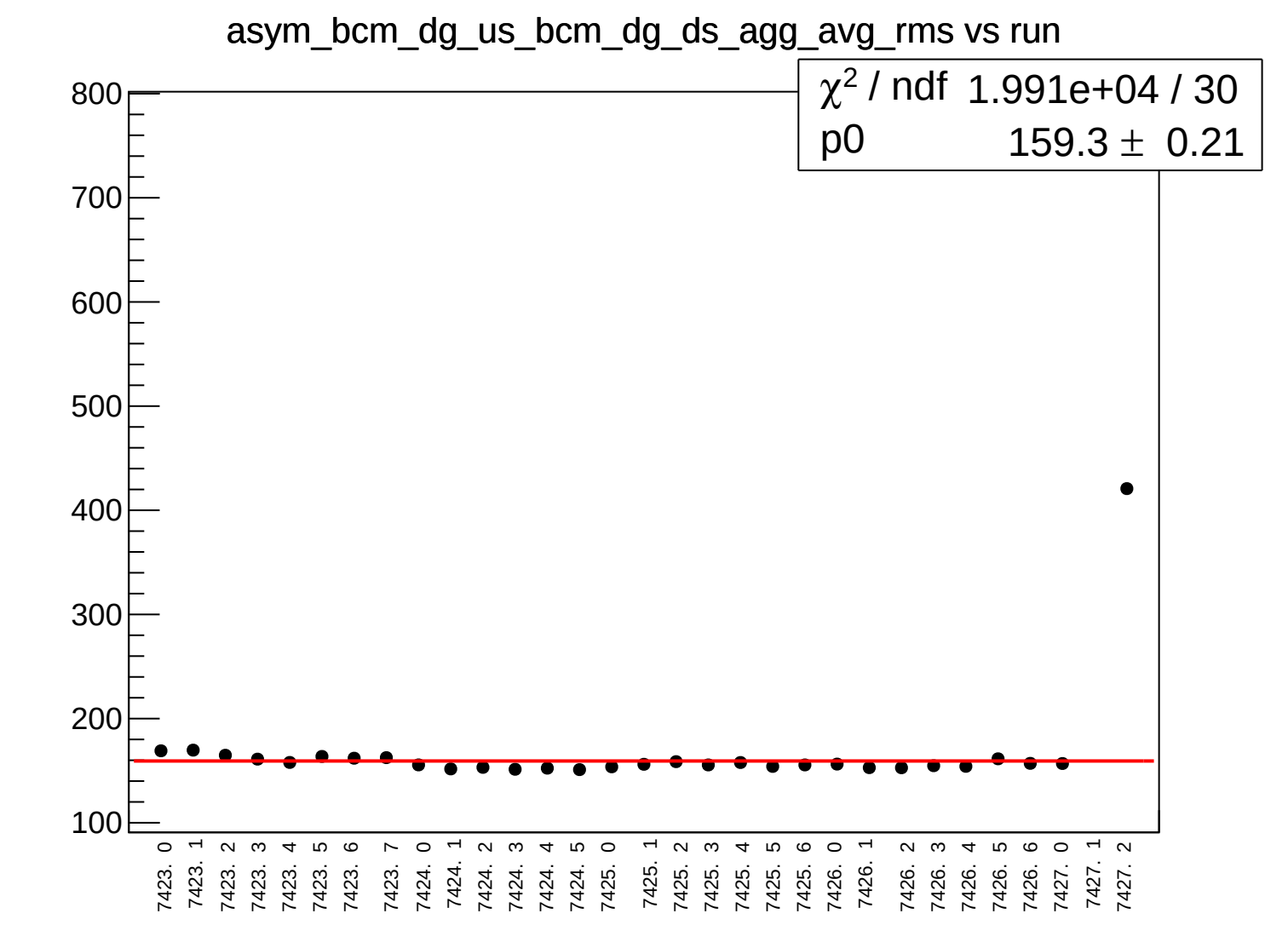

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 16.31 / 30
p0 −3.346 ± 32.33
400
200
0
−200
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −251.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

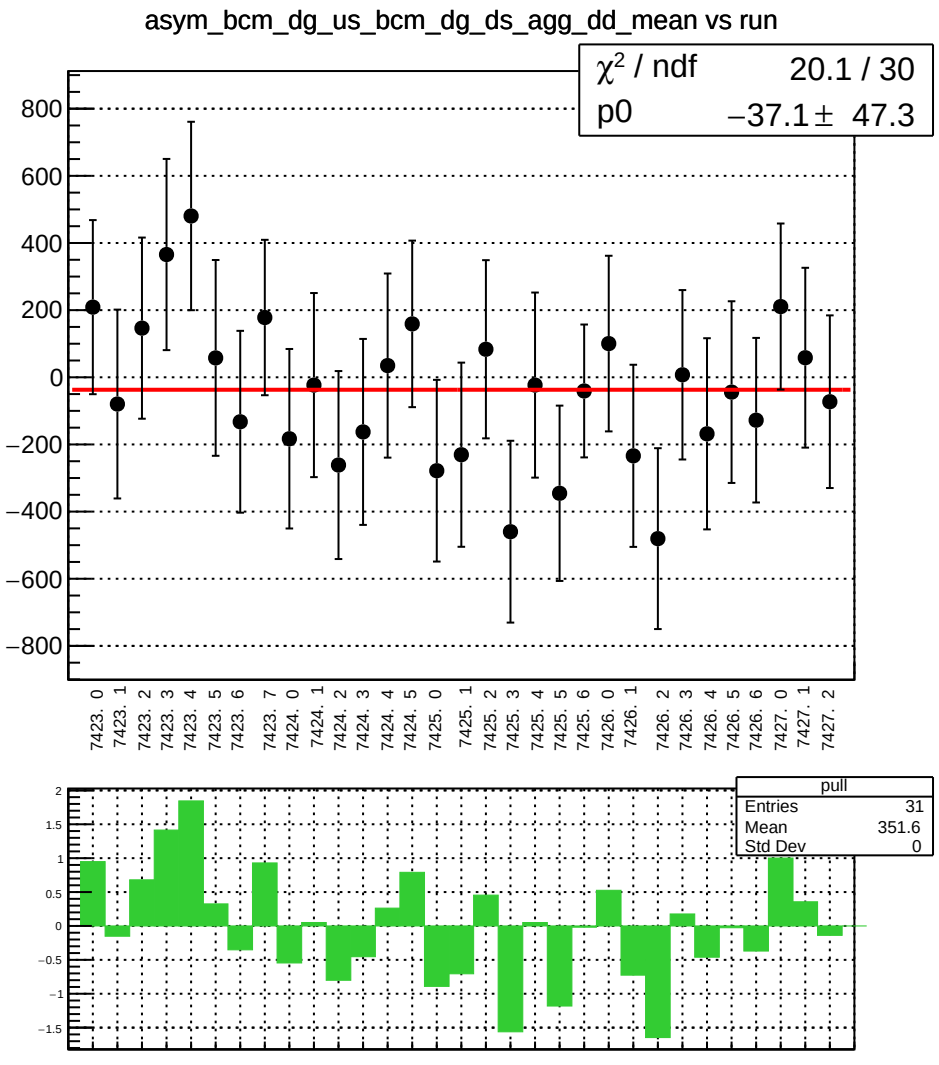

pull1D
Entries 31
Mean −0.008089
Std Dev 0.7253
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

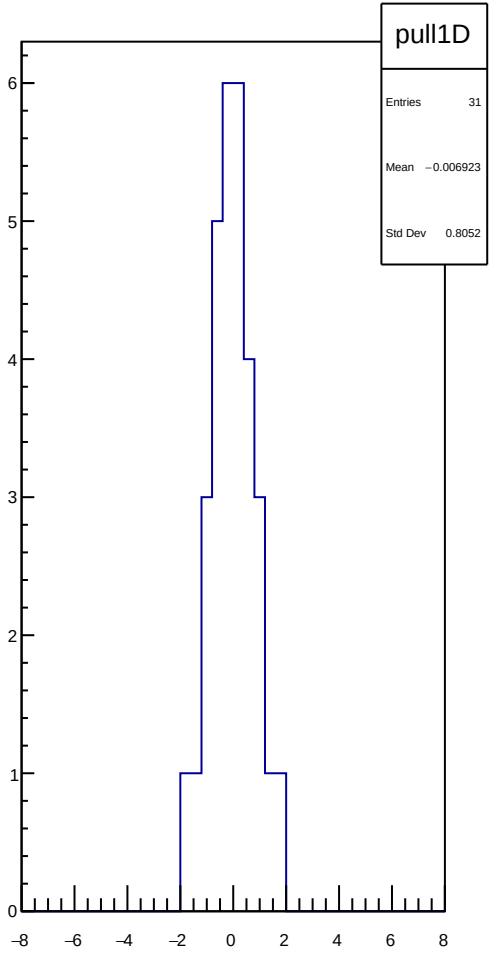

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 384.9 / 30
p0 17.64 ± 0.02286
18.5
18
17.5
17
16.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

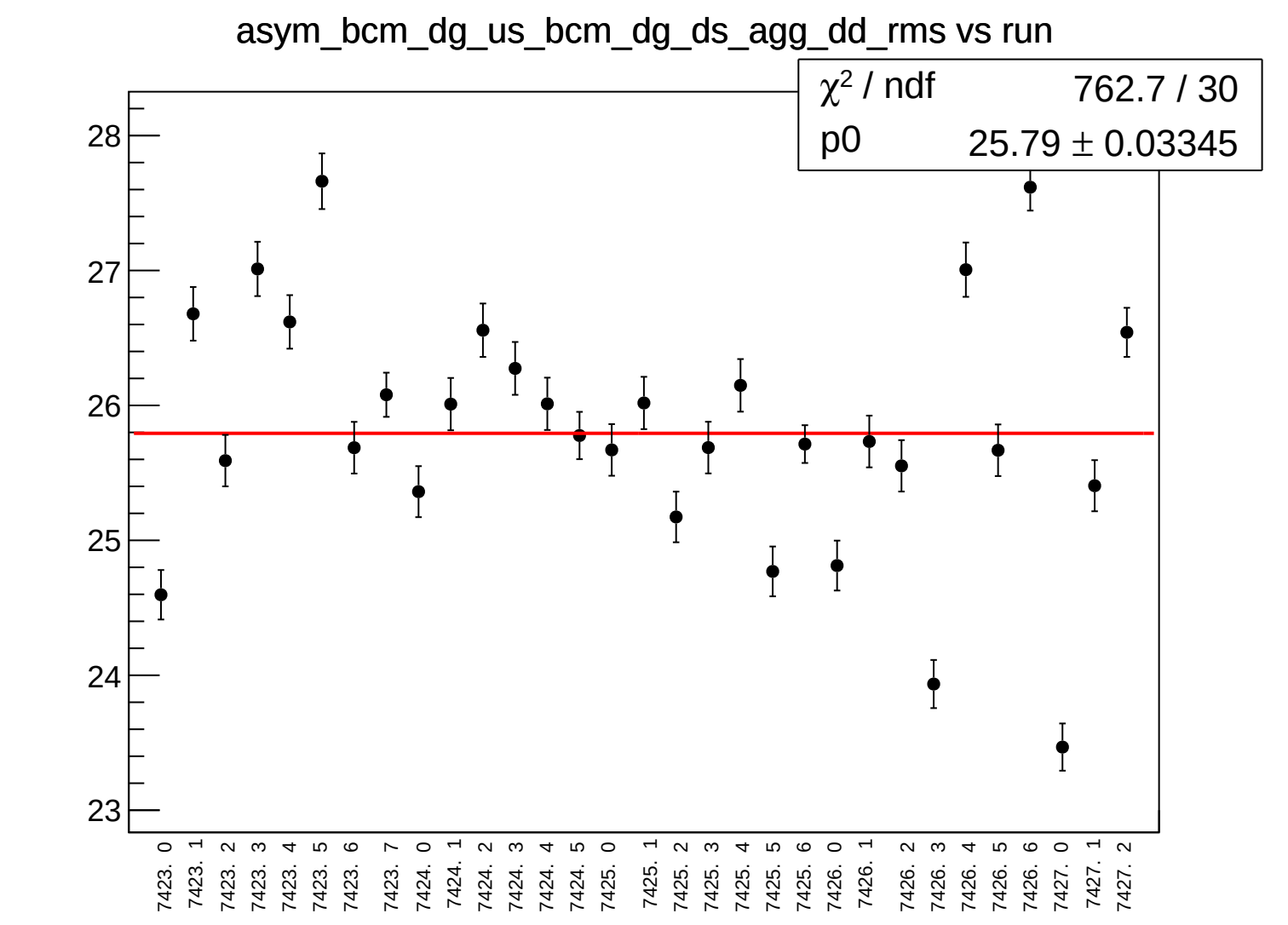

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.474 / 30
p0 27.79 ± 297
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 29.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1

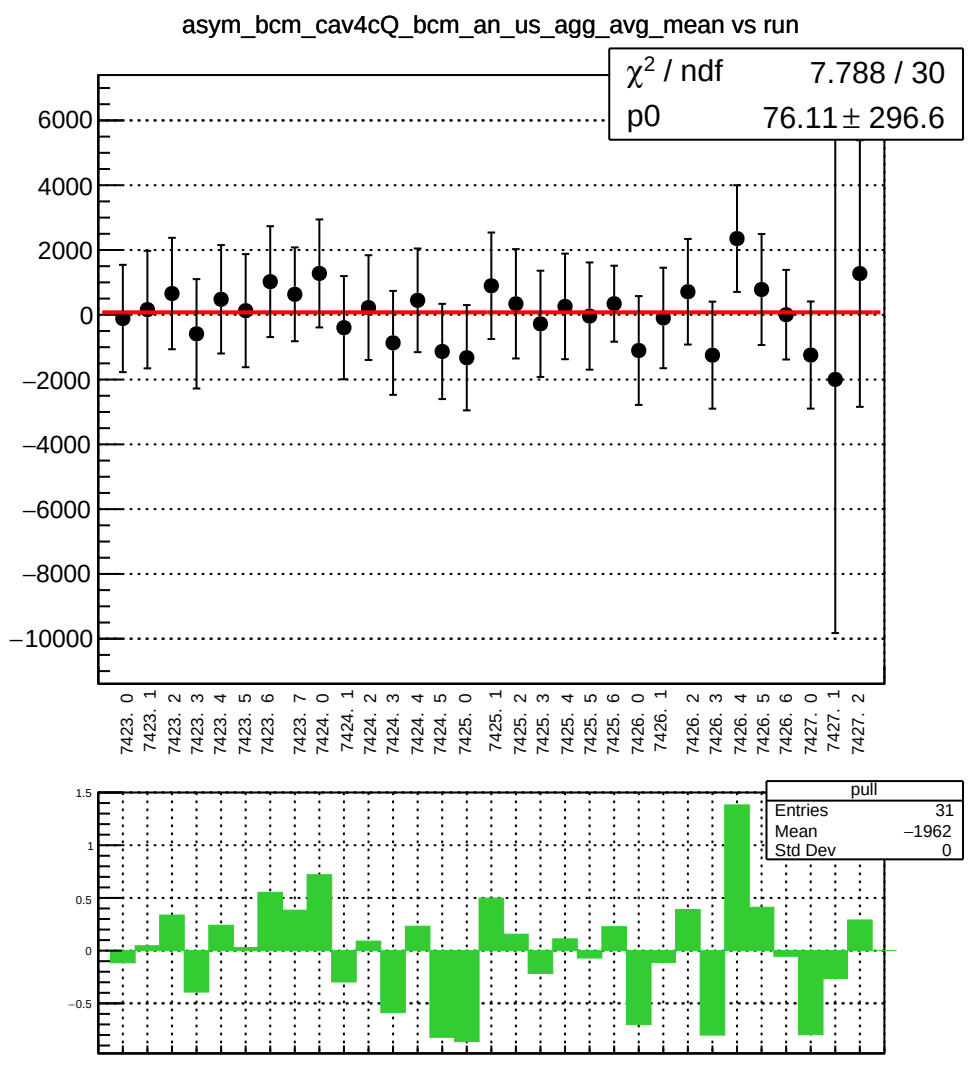

pull1D
Entries 31
Mean −0.002374
Std Dev 0.491
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

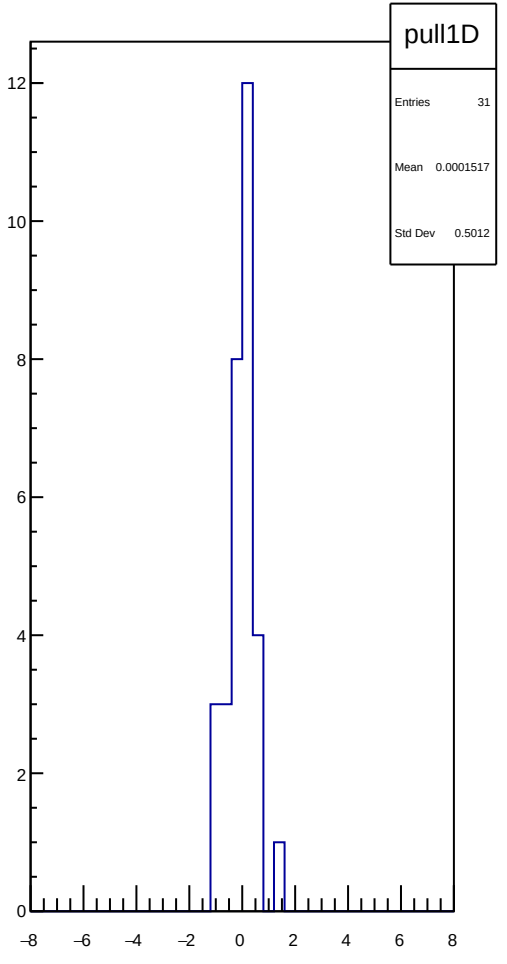

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.991e+04 / 30
p0 159.3 ± 0.21
800
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

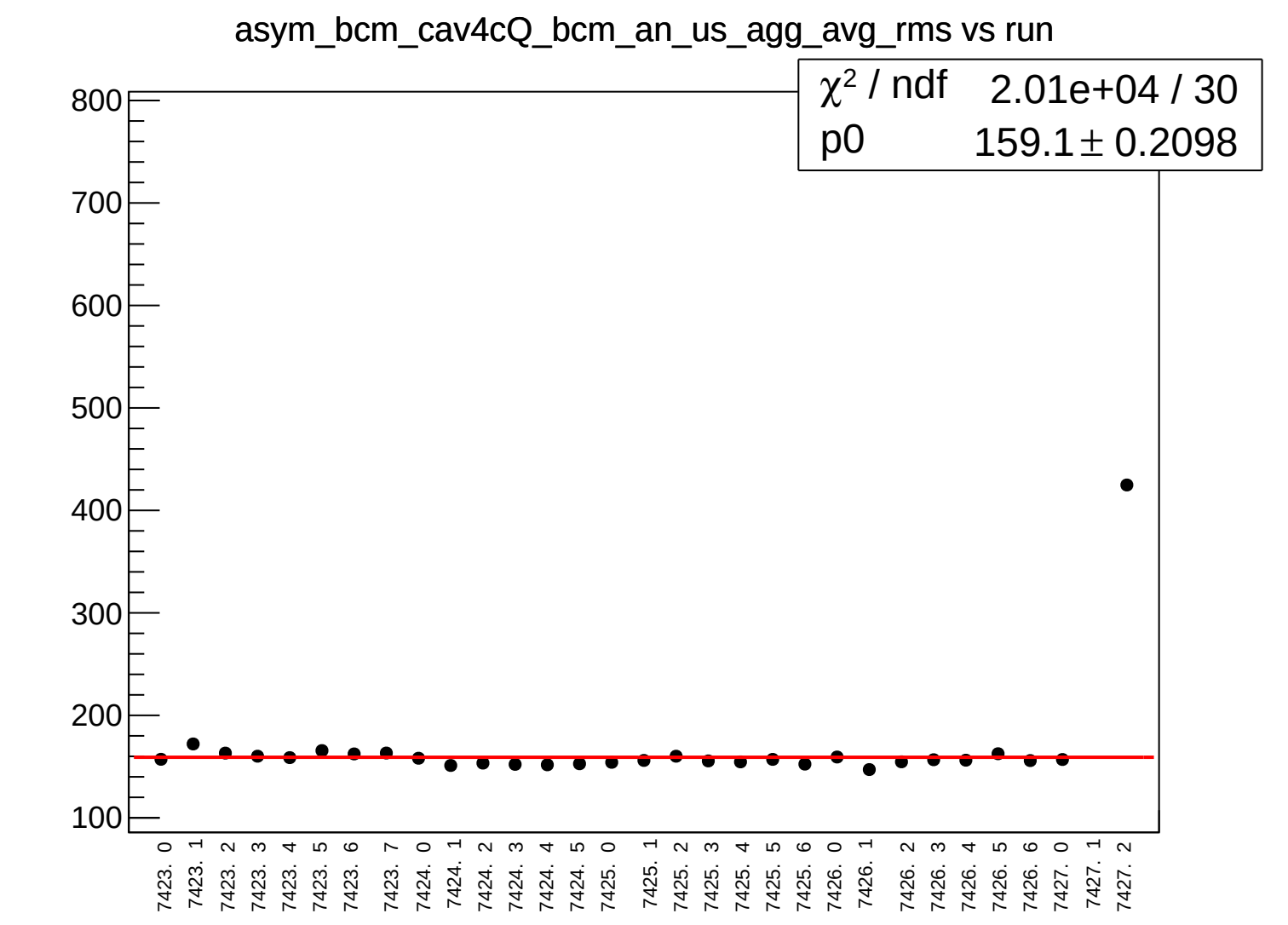

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 20.1 / 30
p0 −37.1 ± 47.3
800
600
400
200
0
−200
−400
−600
−800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 351.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

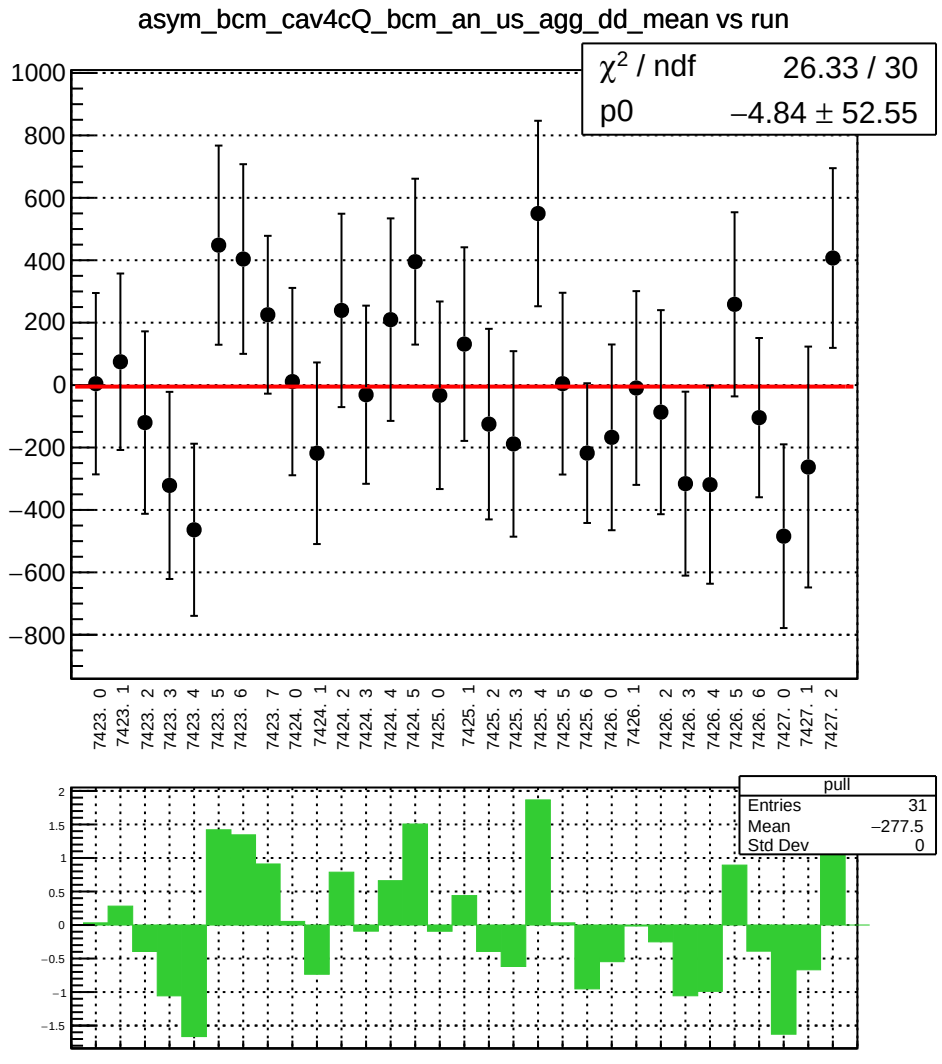

pull1D
Entries 31
Mean −0.006923
Std Dev 0.8052
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

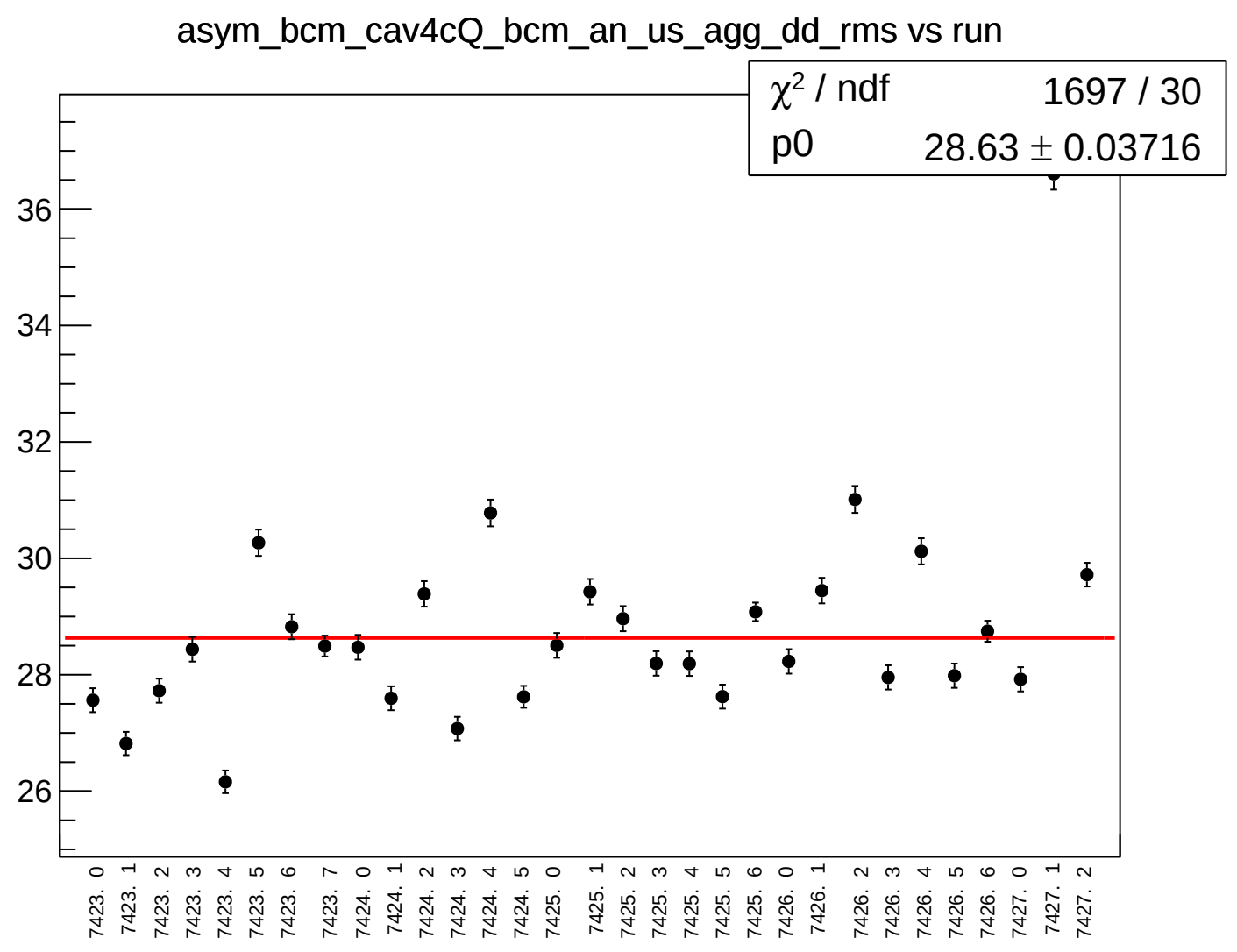

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 762.7 / 30
p0 25.79 ± 0.03345
28
27
26
25
24
23
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

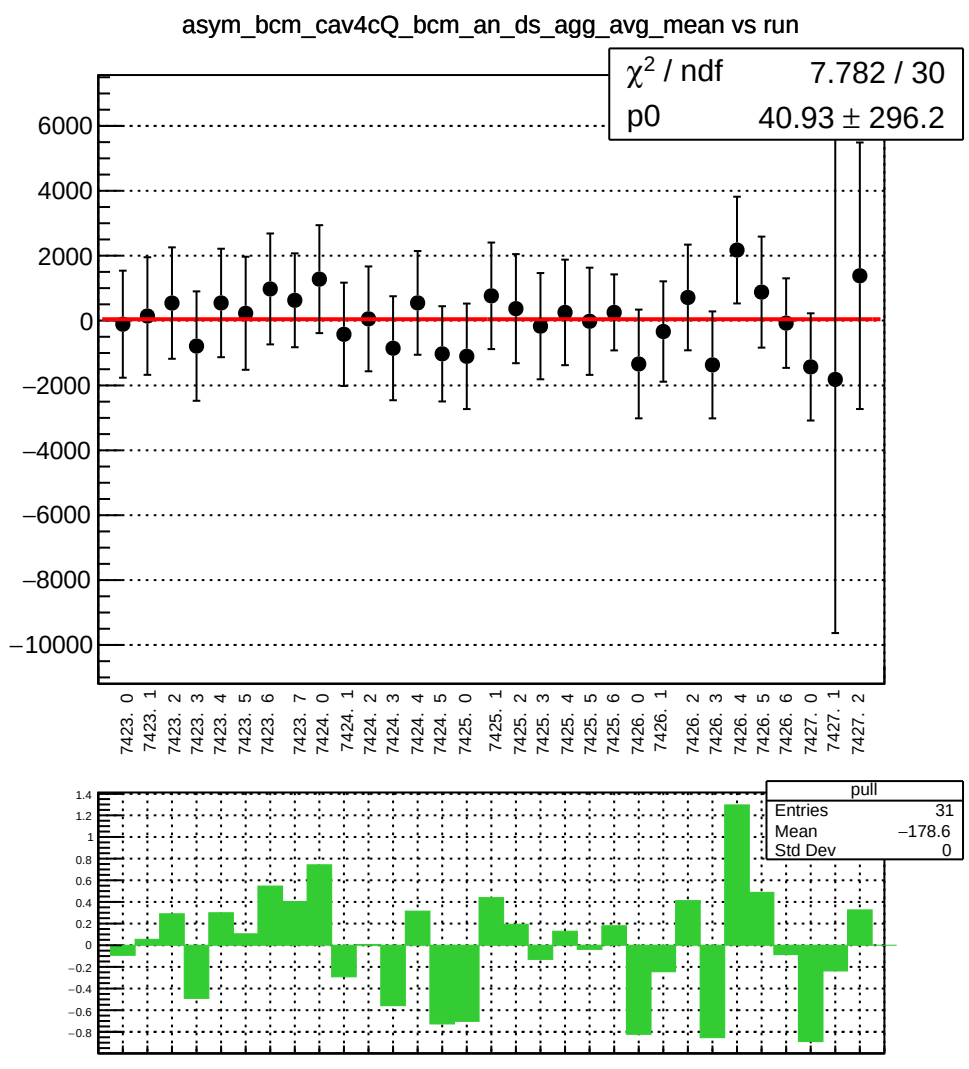

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.788 / 30
p0 76.11 ± 296.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1962
Std Dev 0
1.5
1
0.5
0
−0.5

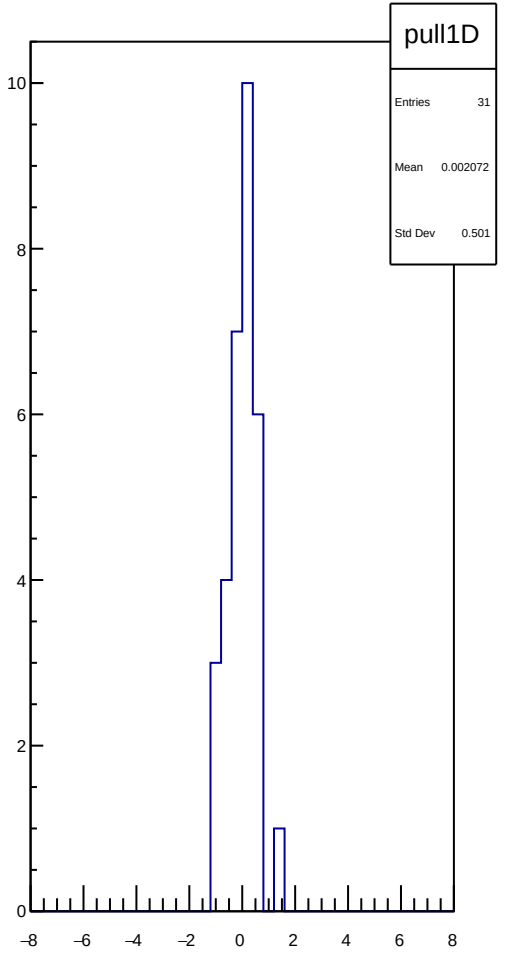

pull1D
Entries 31
Mean 0.0001517
Std Dev 0.5012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

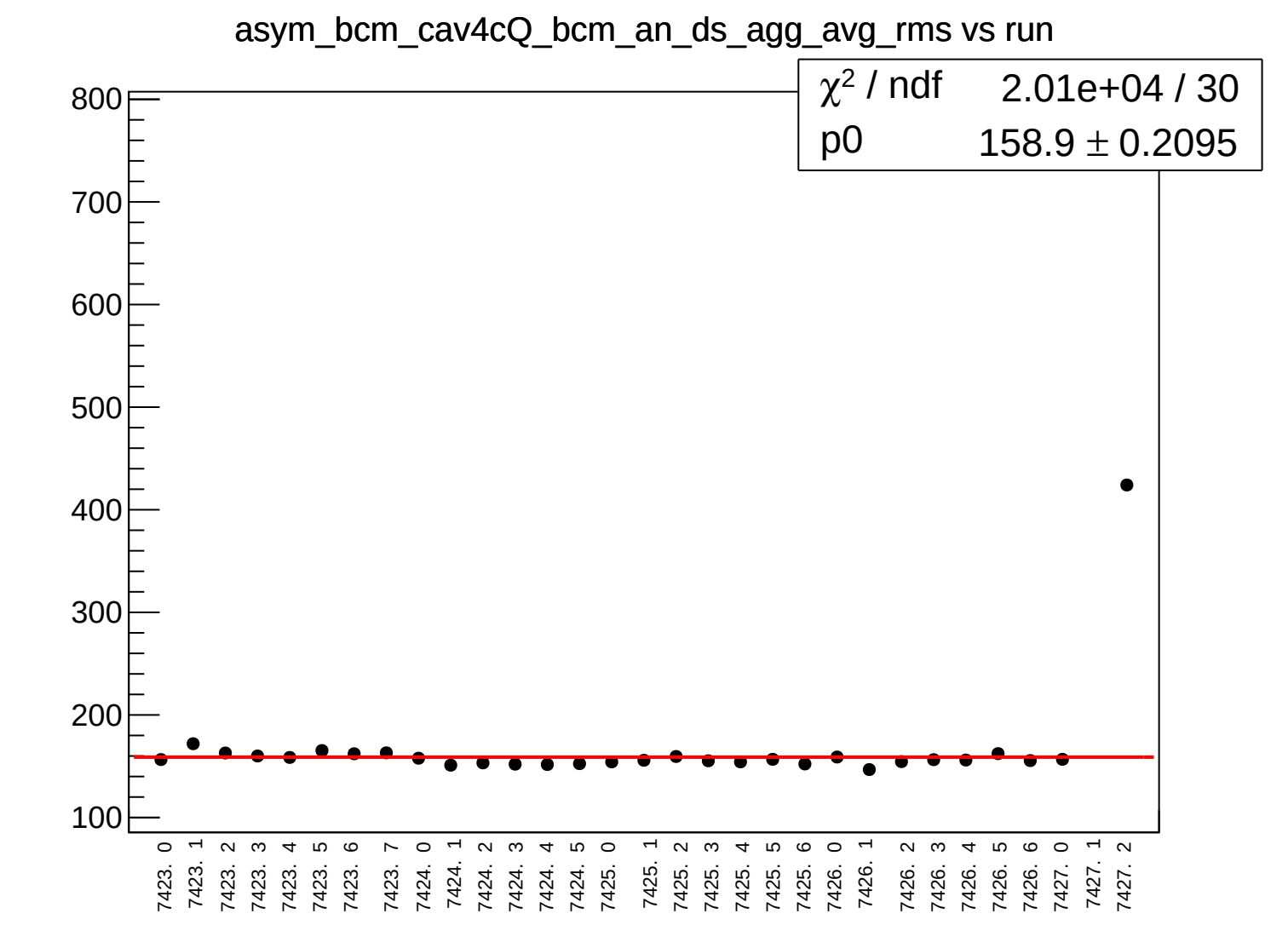

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.01e+04 / 30
p0 159.1 ± 0.2098
800
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

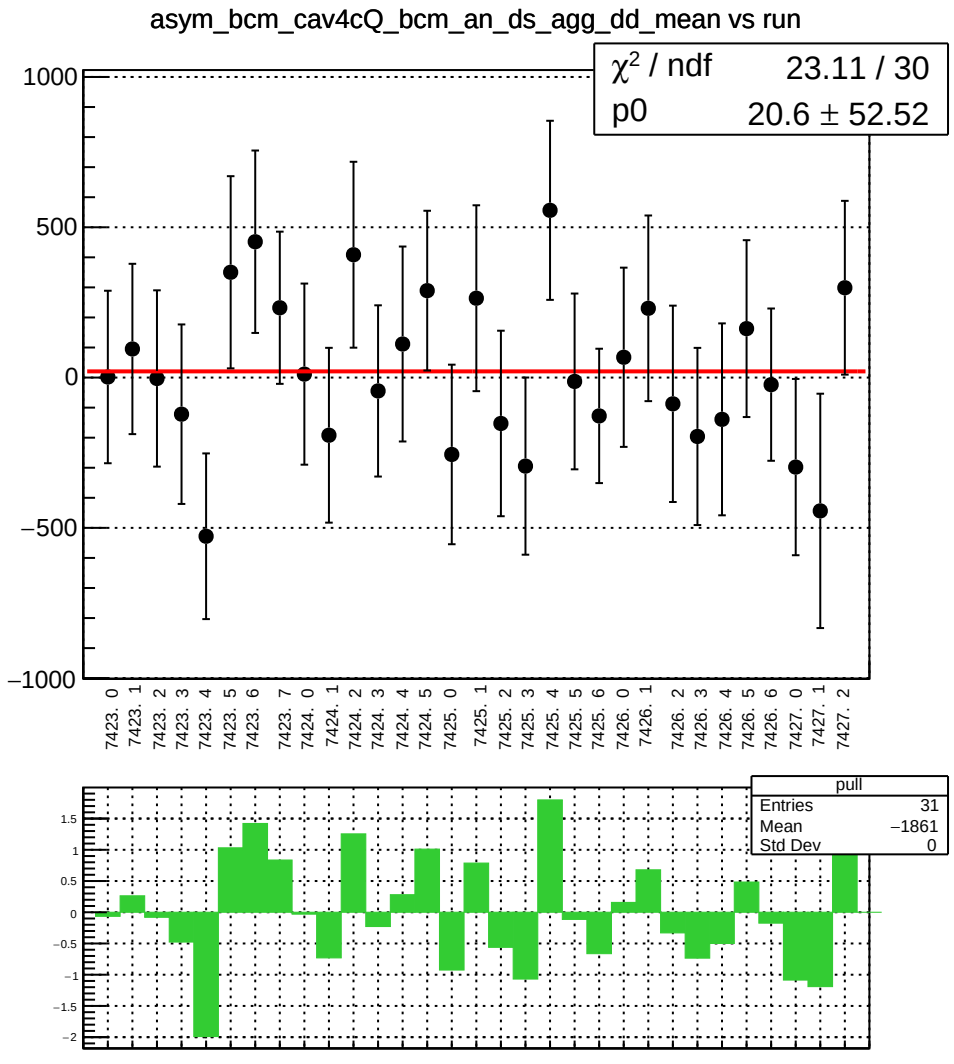

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 26.33 / 30
p0 −4.84 ± 52.55
1000
800
600
400
200
0
−200
−400
−600
−800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −277.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.003931
Std Dev 0.9216
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

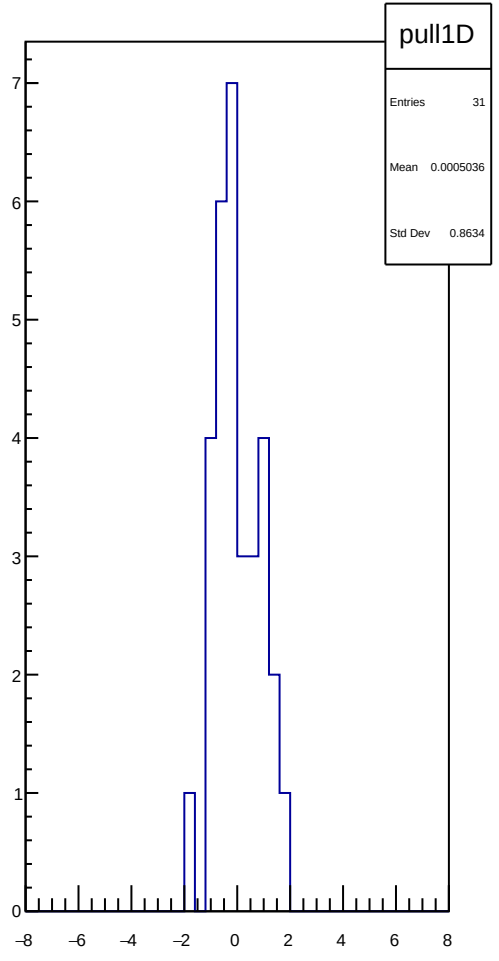

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1697 / 30
p0 28.63 ± 0.03716
36
34
32
30
28
26
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

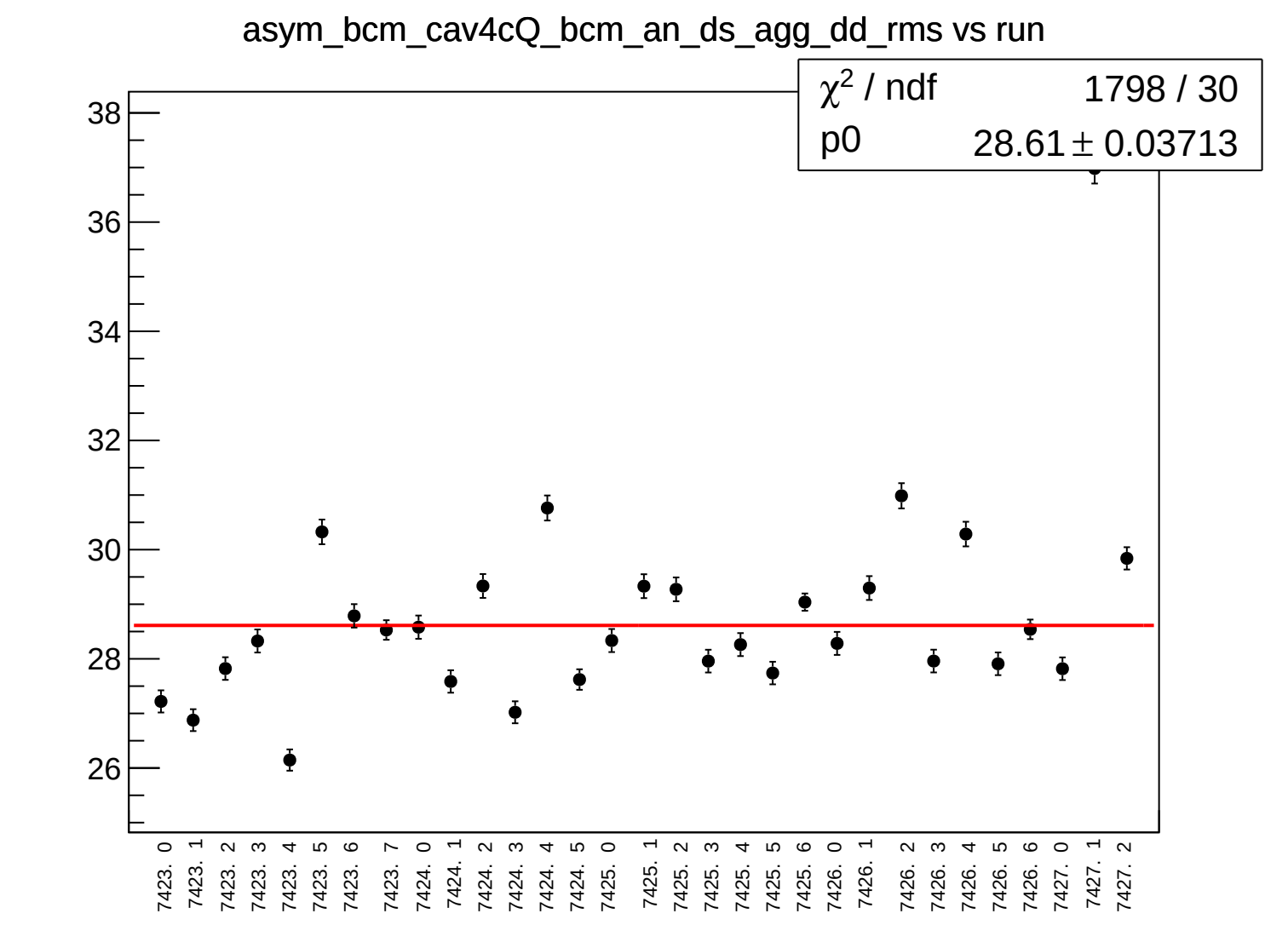

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.782 / 30
p0 40.93 ± 296.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −178.6
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

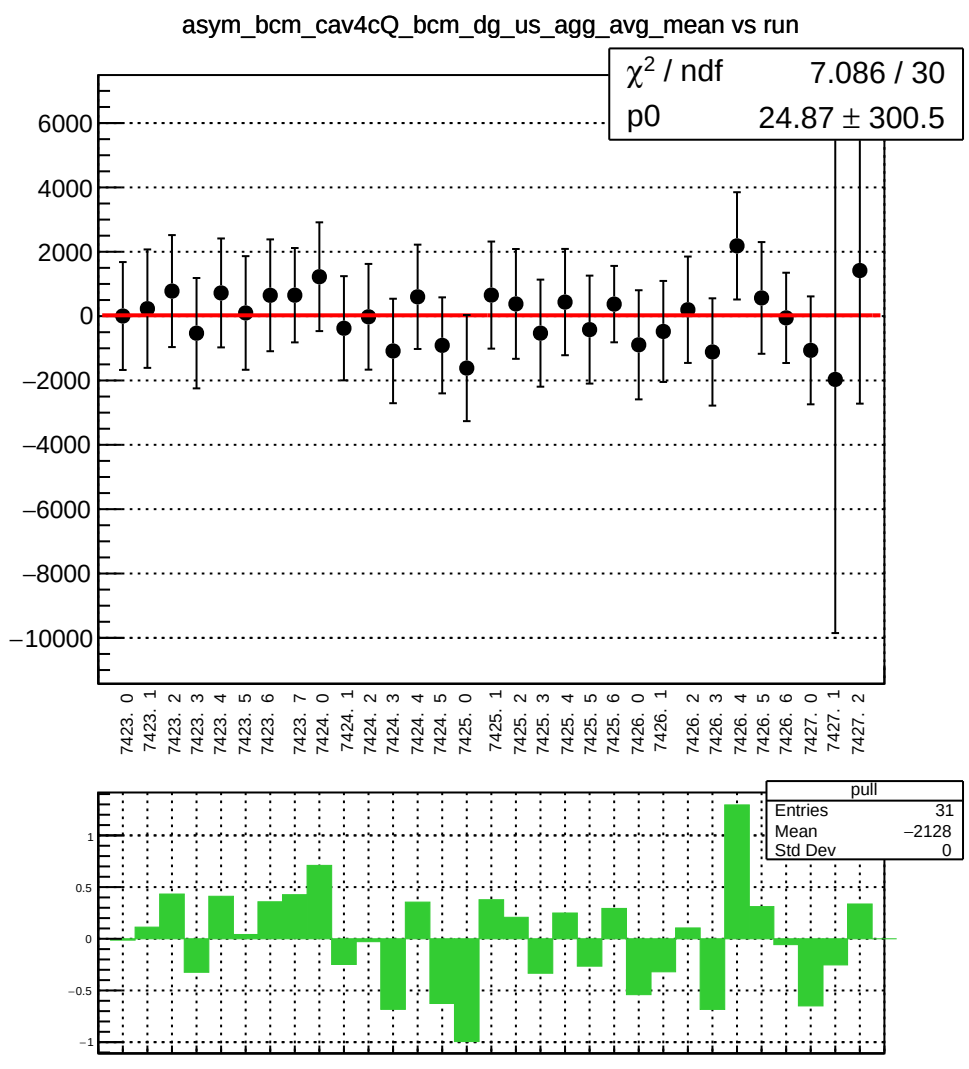

pull1D
Entries 31
Mean 0.002072
Std Dev 0.501
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

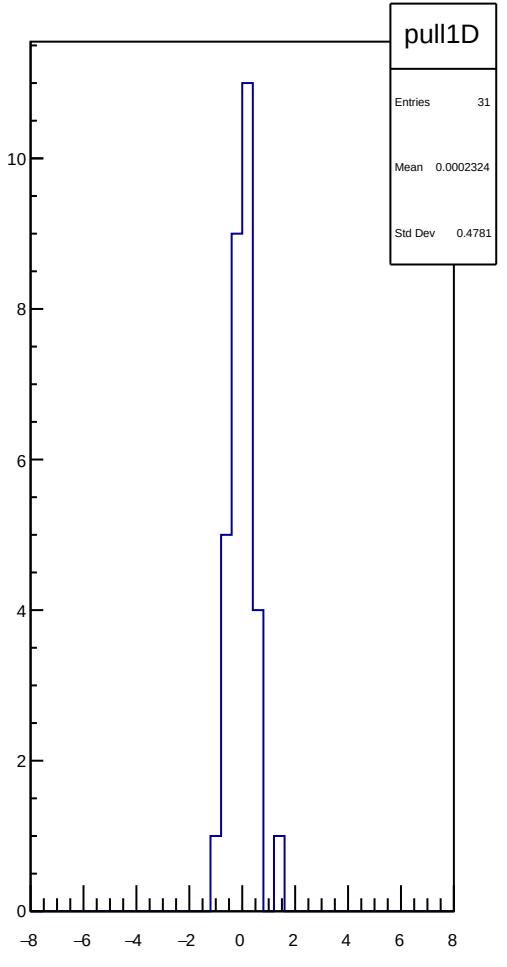

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.01e+04 / 30
p0 158.9 ± 0.2095
800
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

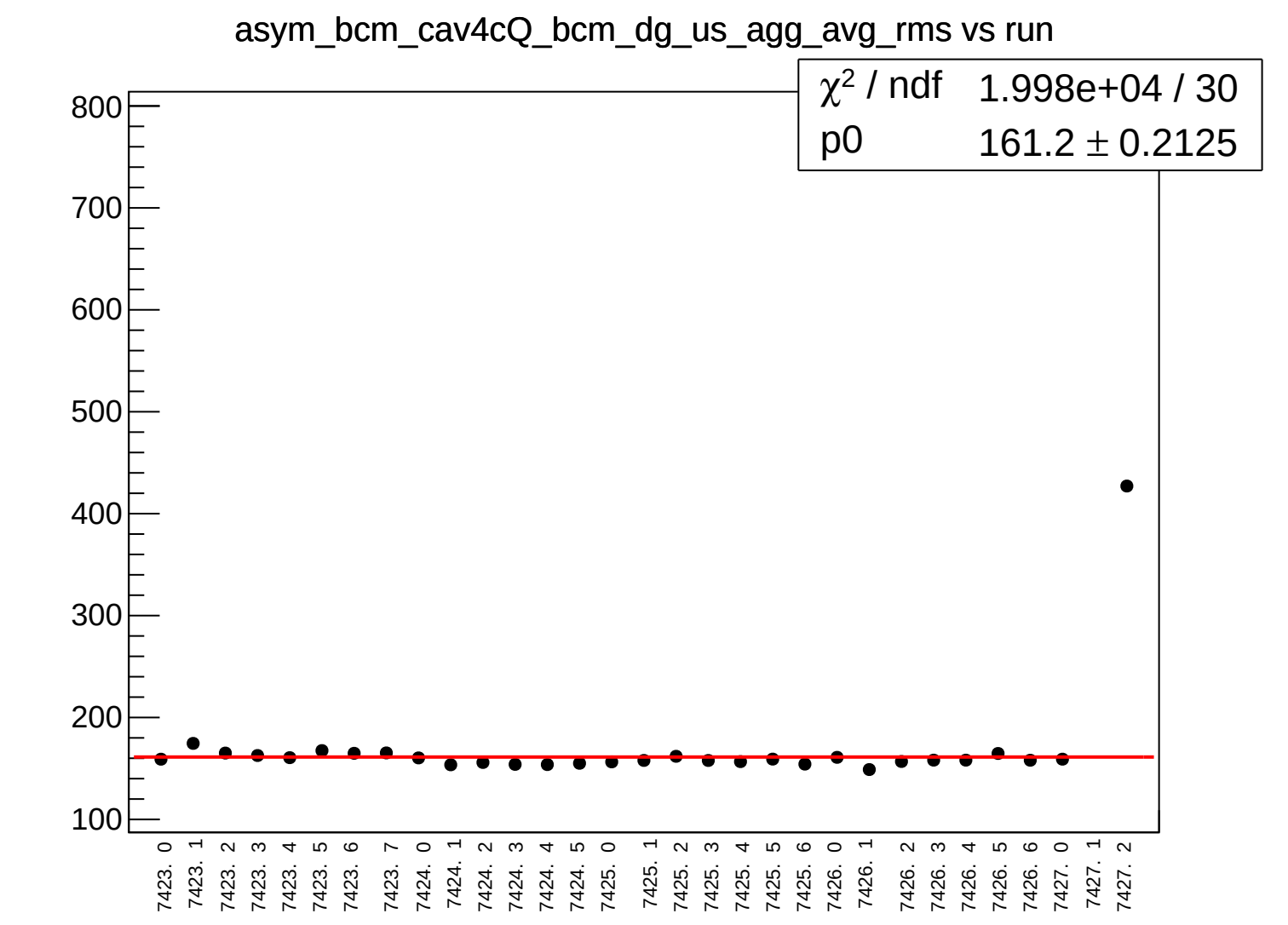

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 23.11 / 30
p0 20.6 ± 52.52
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1861
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

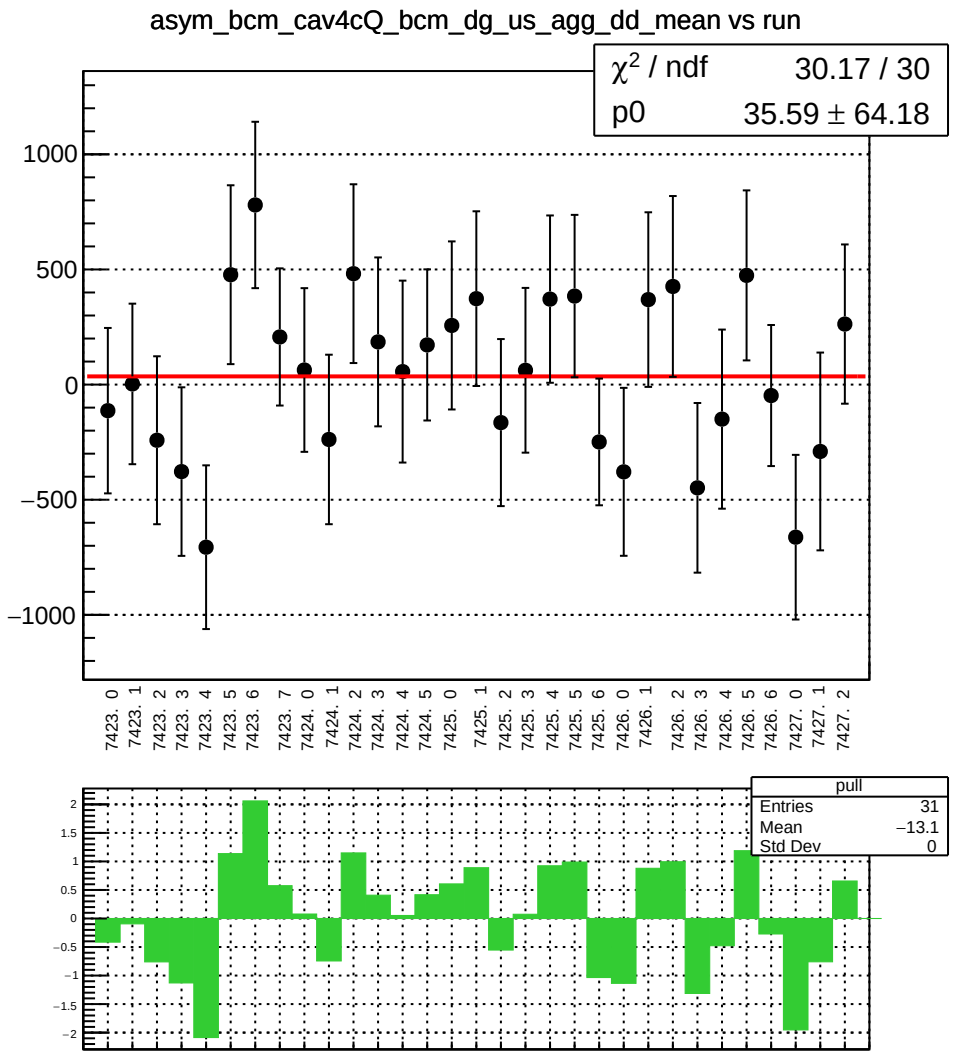

pull1D
Entries 31
Mean 0.0005036
Std Dev 0.8634
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

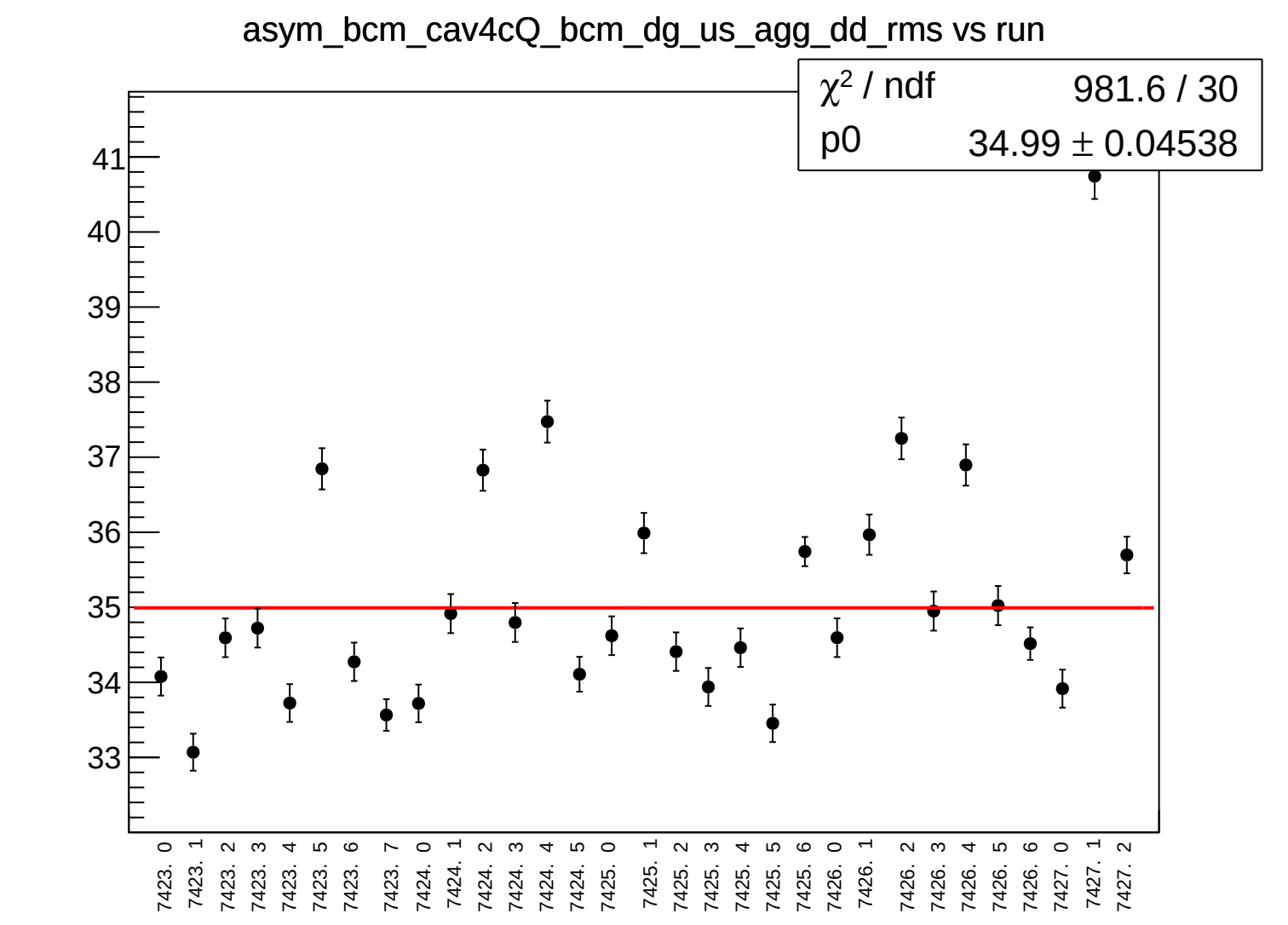

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1798 / 30
p0 28.61 ± 0.03713
38
36
34
32
30
28
26
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

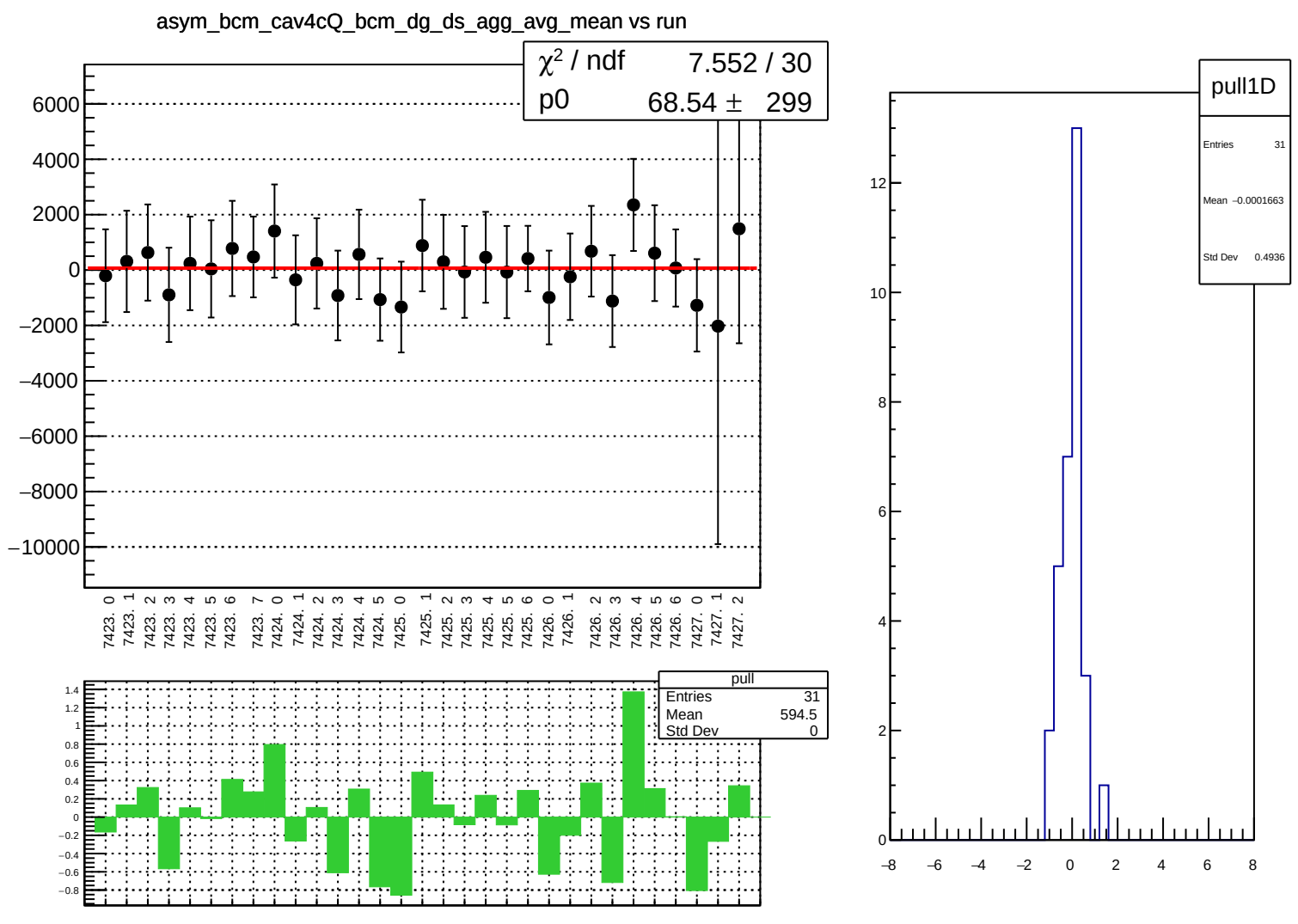

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 7.086 / 30
p0 24.87 ± 300.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −2128
Std Dev 0
1
0.5
0
−0.5
−1

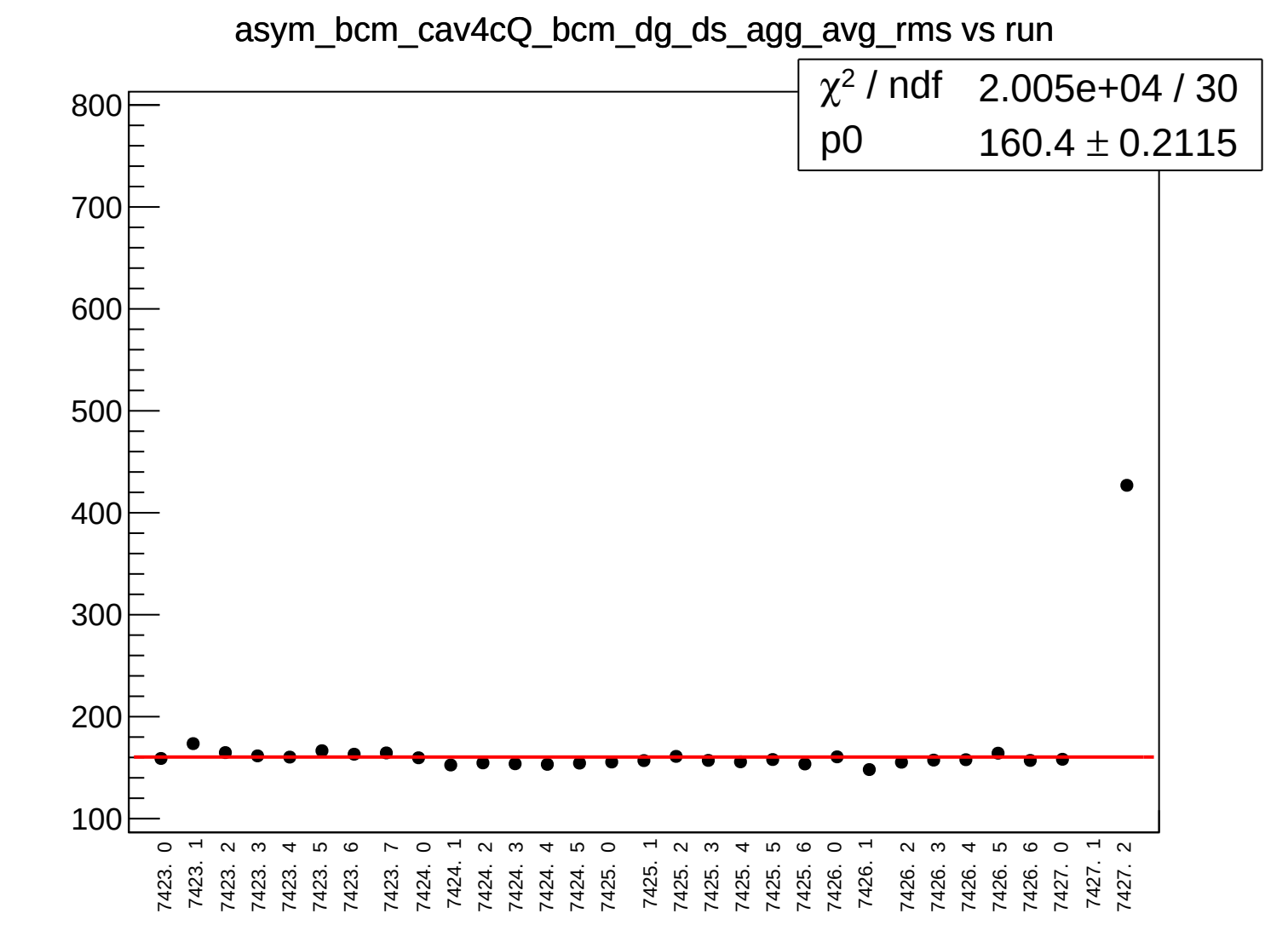

pull1D
Entries 31
Mean 0.0002324
Std Dev 0.4781
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

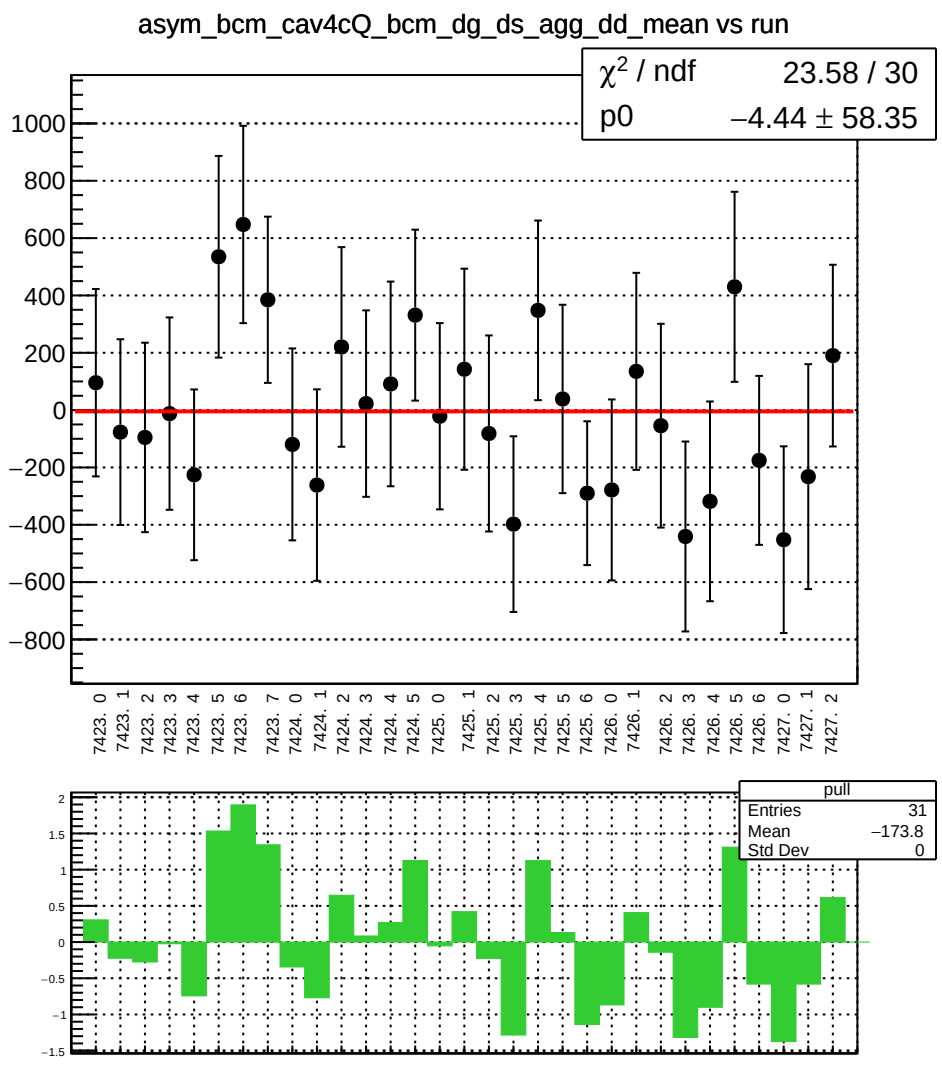

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.998e+04 / 30
p0 161.2 ± 0.2125
800
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

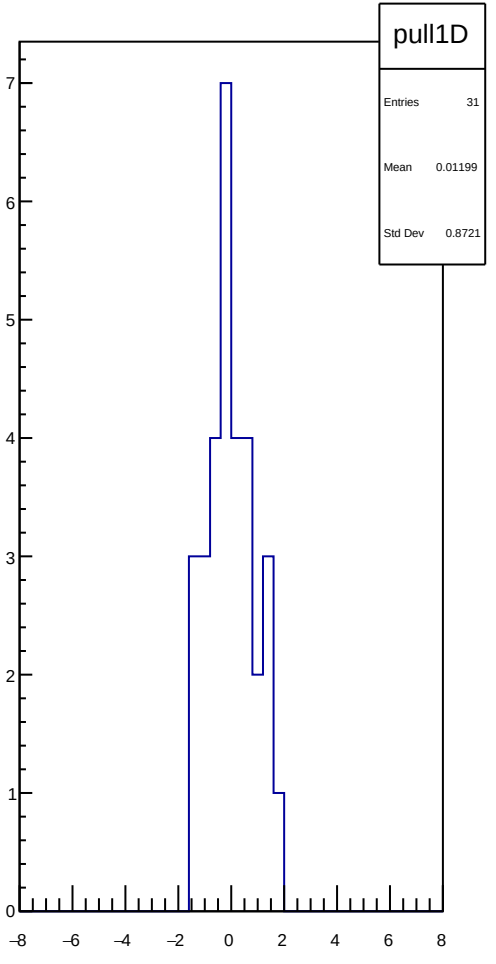

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 30.17 / 30
p0 35.59 ± 64.18
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −13.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01145
Std Dev 0.9865
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

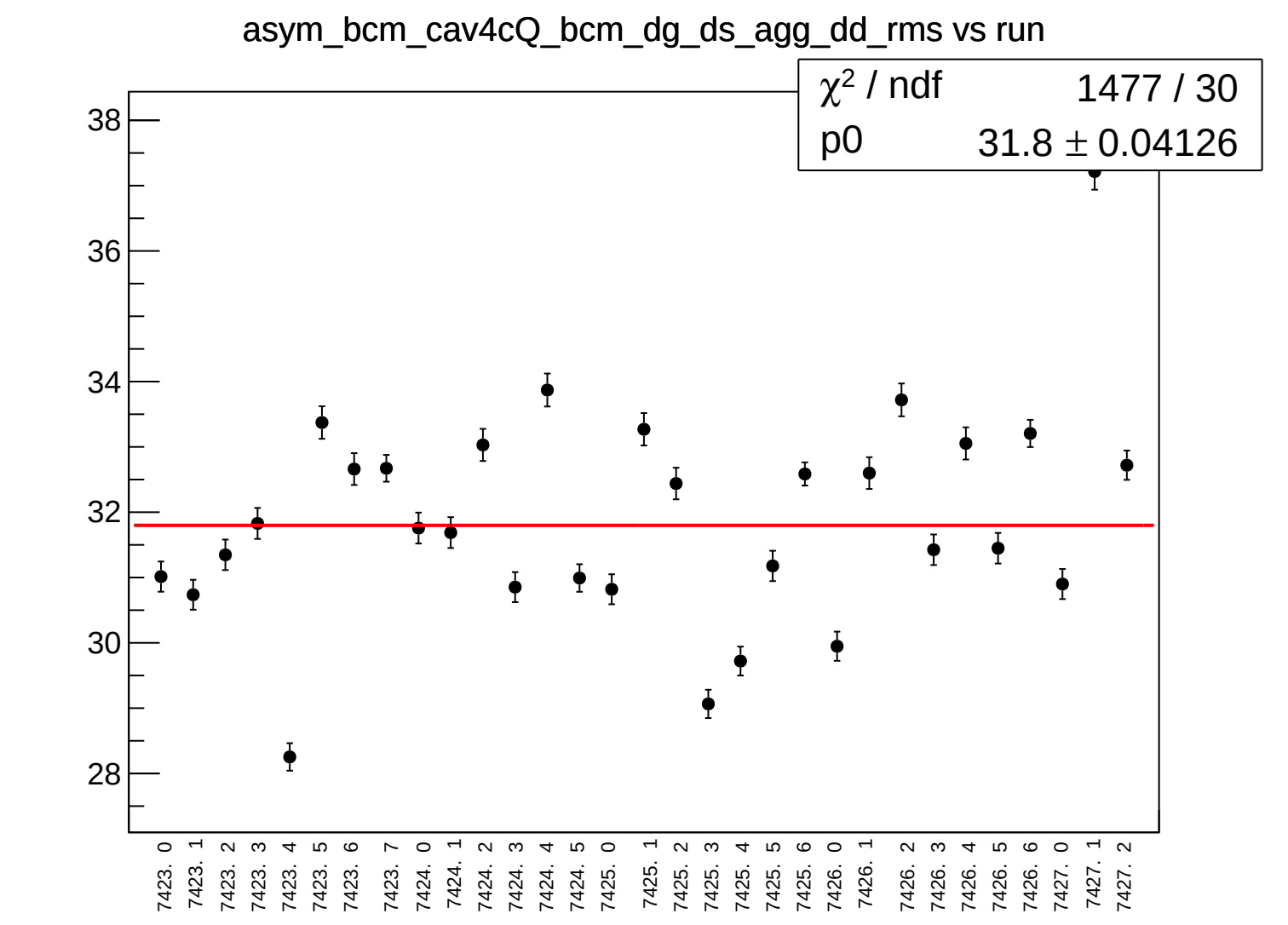

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ^2 / ndf 981.6 / 30
p0 34.99 ± 0.04538
41
40
39
38
37
36
35
34
33
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

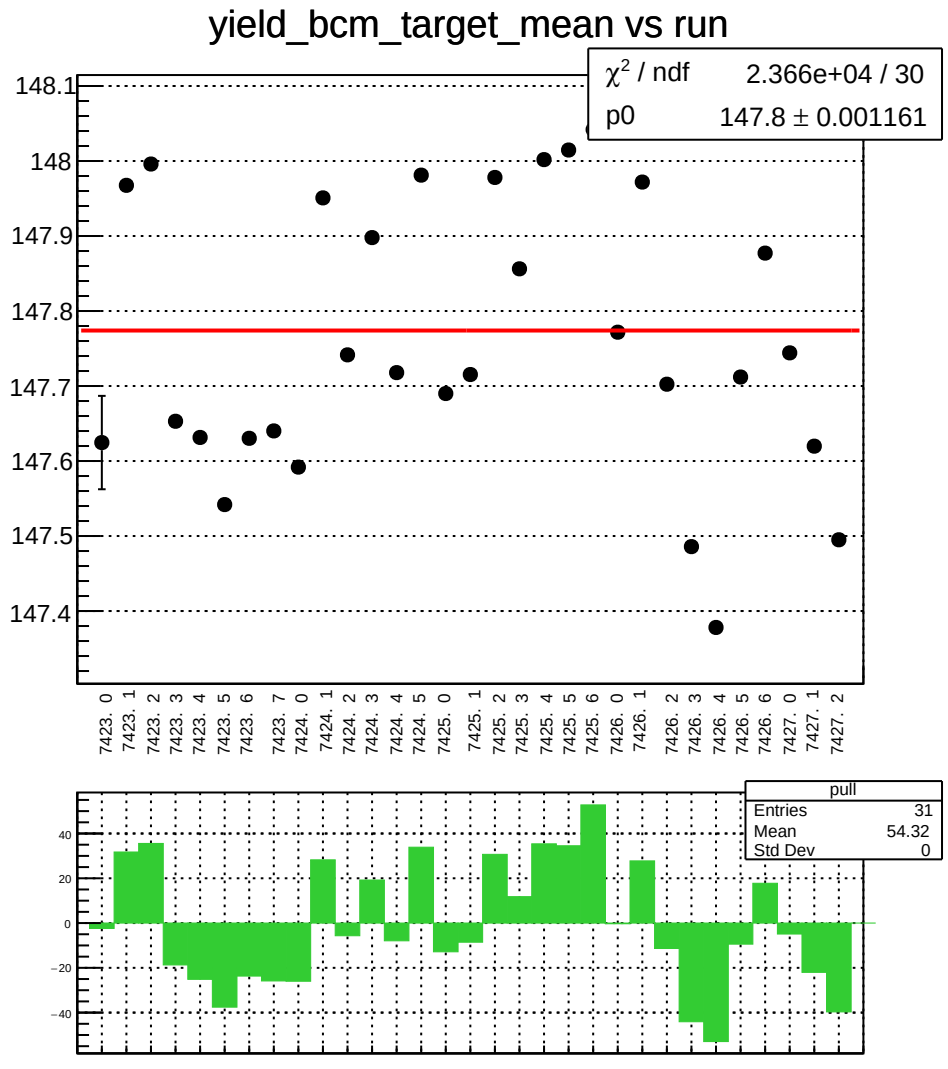

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.552 / 30
p0 68.54 ± 299
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 594.5
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 31
Mean −0.0001663
Std Dev 0.4936
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

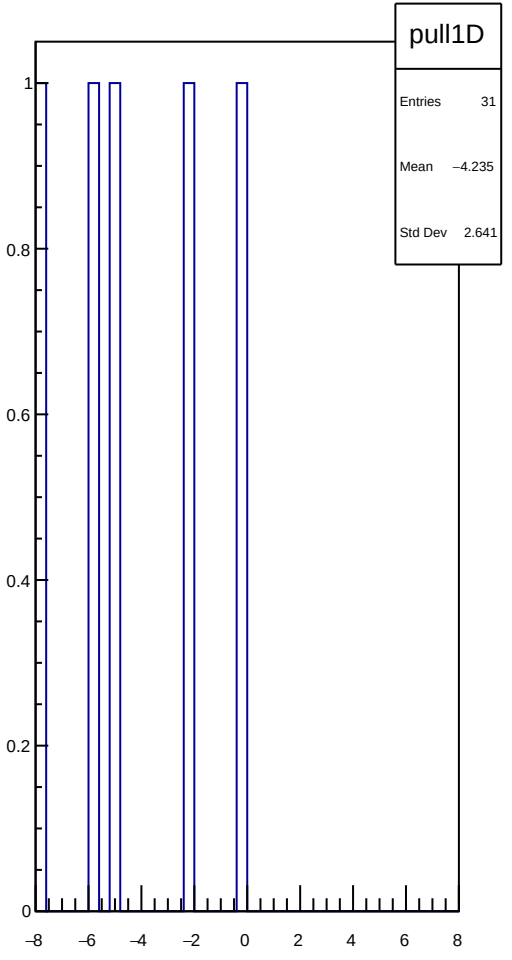

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.005e+04 / 30
p0 160.4 ± 0.2115
800
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

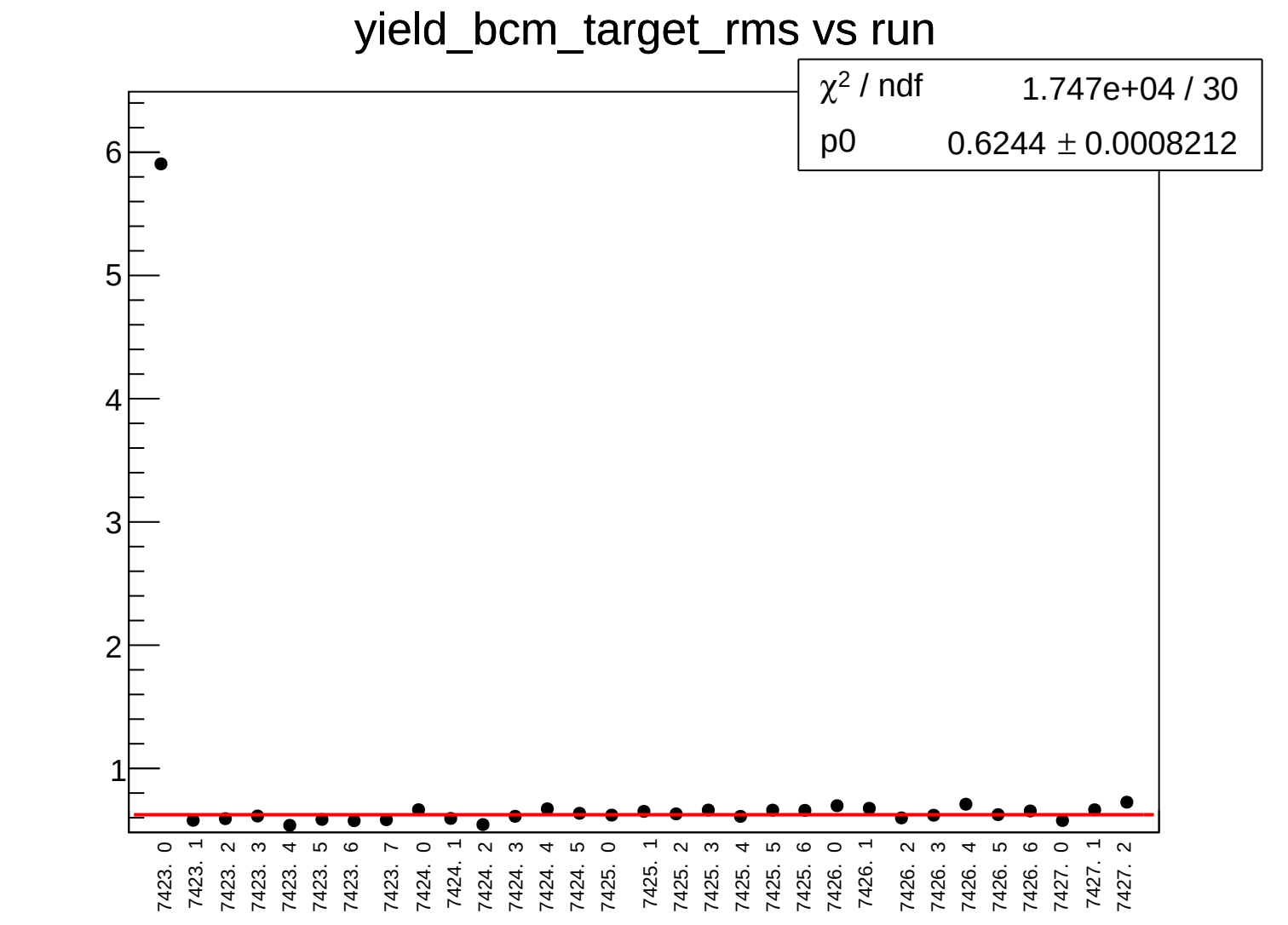

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 23.58 / 30
p0 −4.44 ± 58.35
1000
800
600
400
200
0
−200
−400
−600
−800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −173.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

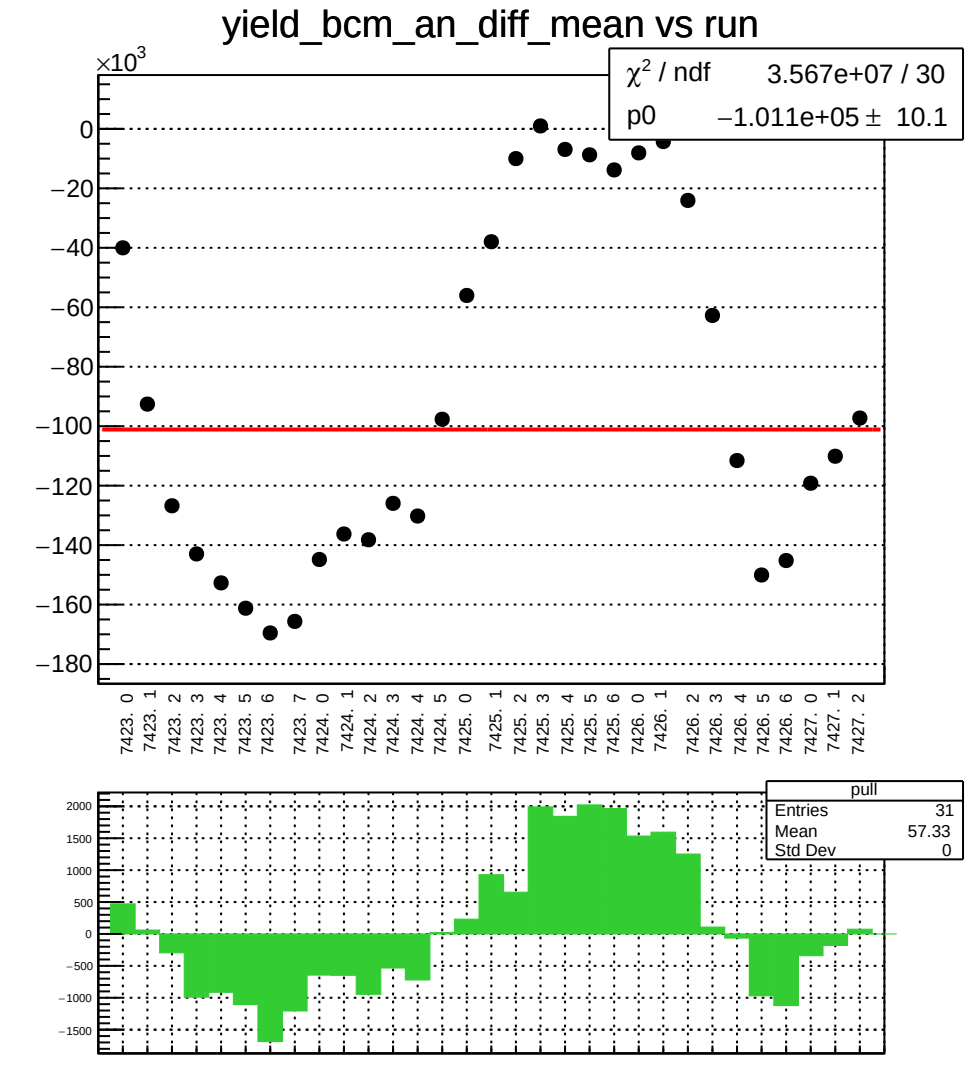

pull1D
Entries 31
Mean 0.01199
Std Dev 0.8721
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

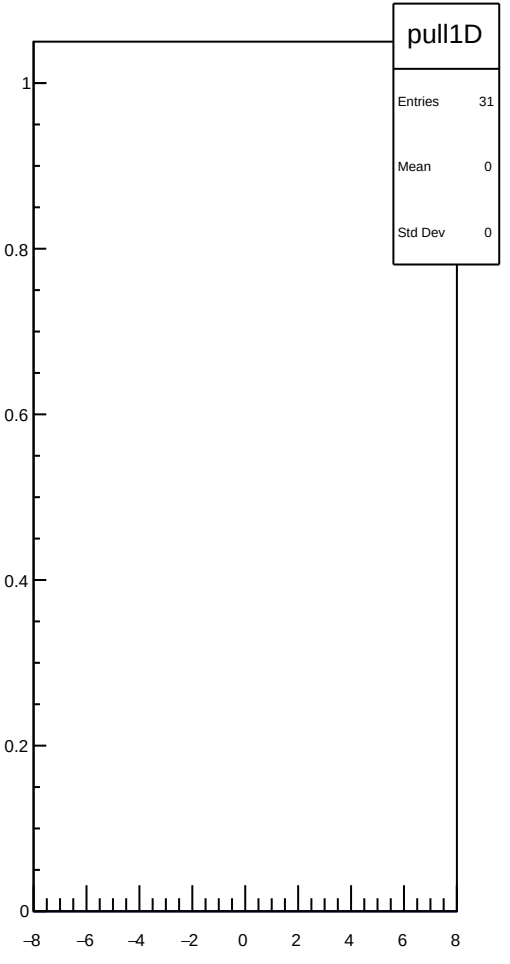

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1477 / 30
p0 31.8 ± 0.04126
38
36
34
32
30
28
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

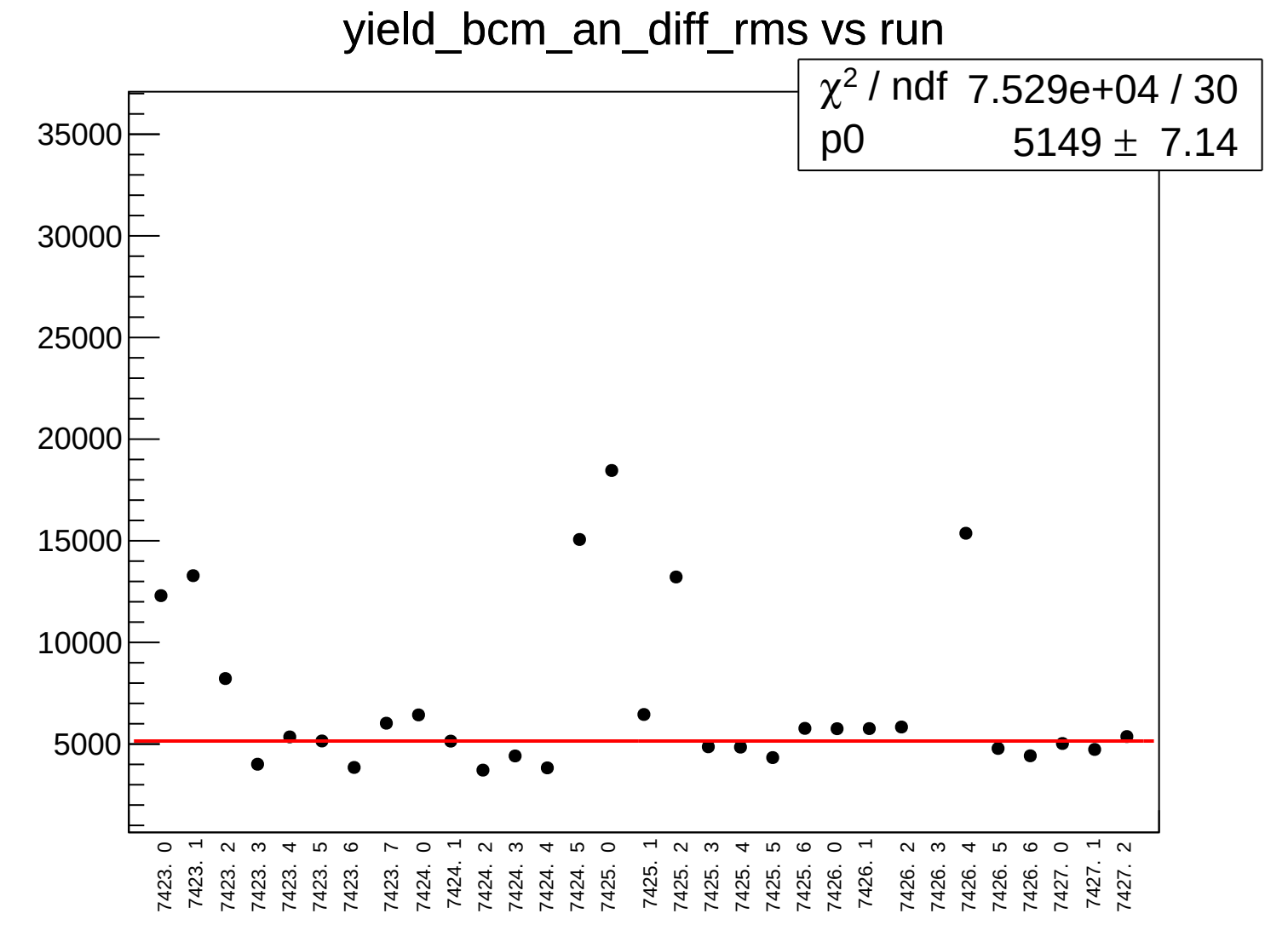

yield_bcm_target_mean vs run
χ² / ndf 2.366e+04 / 30
p0 147.8 ± 0.001161
148.1
148
147.9
147.8
147.7
147.6
147.5
147.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 54.32
Std Dev 0
40
20
0
−20
−40

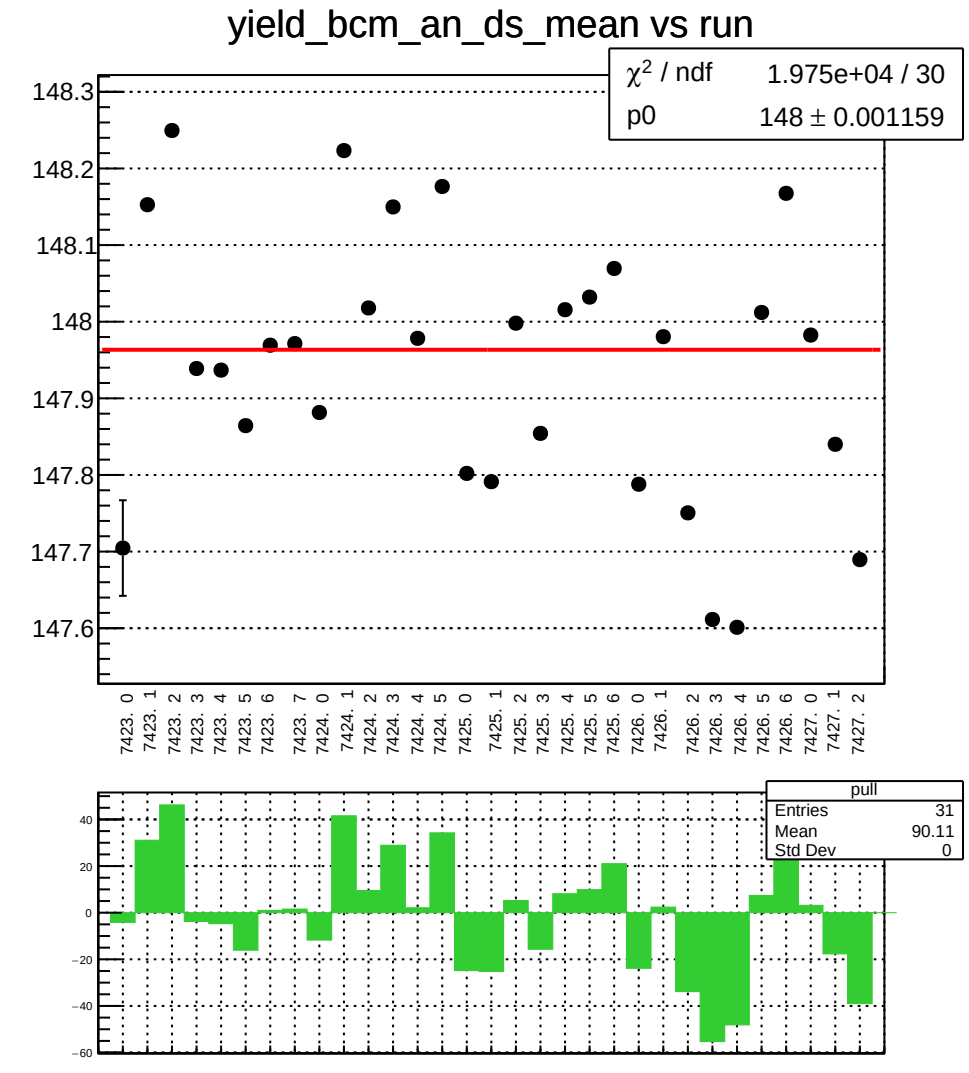

pull1D
Entries 31
Mean −4.235
Std Dev 2.641
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

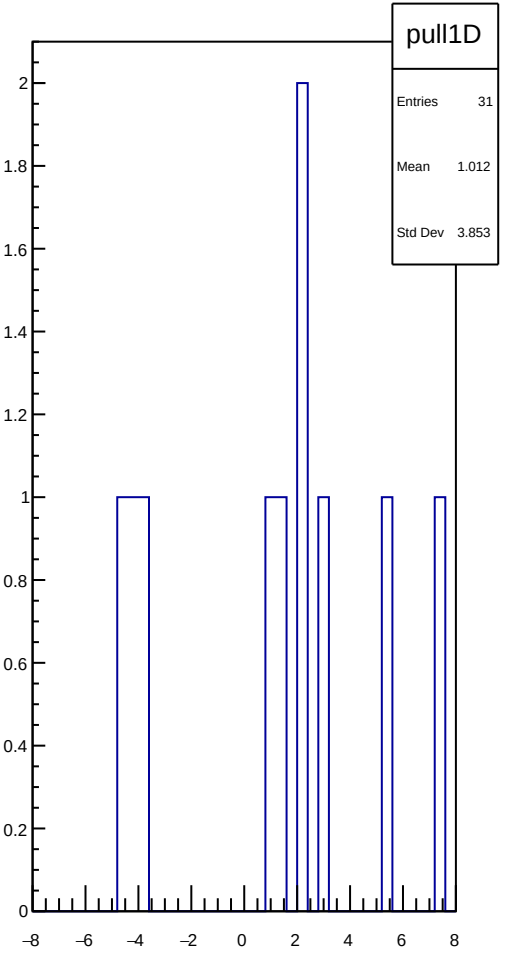

yield_bcm_target_rms vs run
χ² / ndf 1.747e+04 / 30
p0 0.6244 ± 0.0008212
6
5
4
3
2
1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

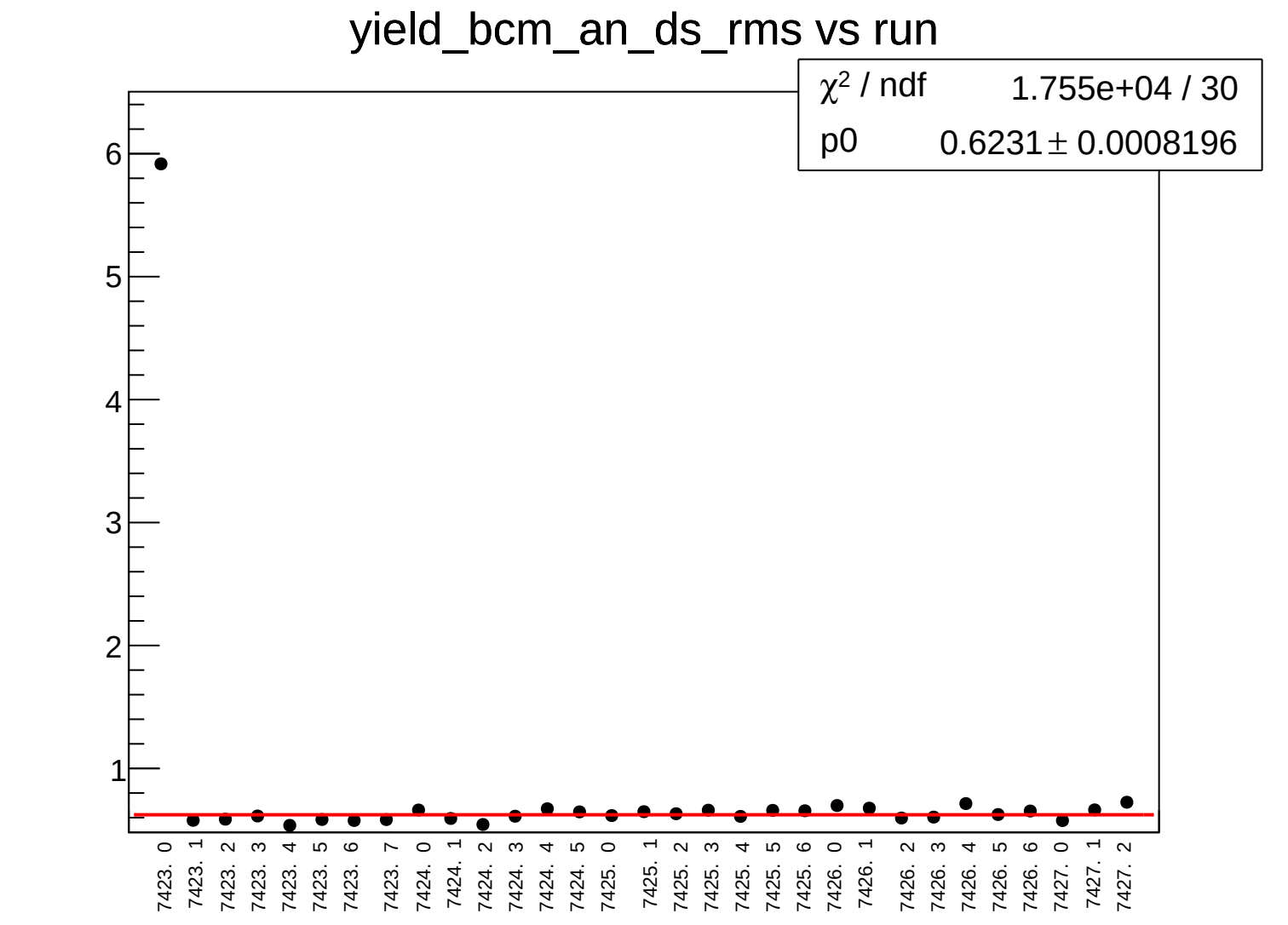

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 3.567e+07 / 30
p0 −1.011e+05 ± 10.1
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 57.33
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

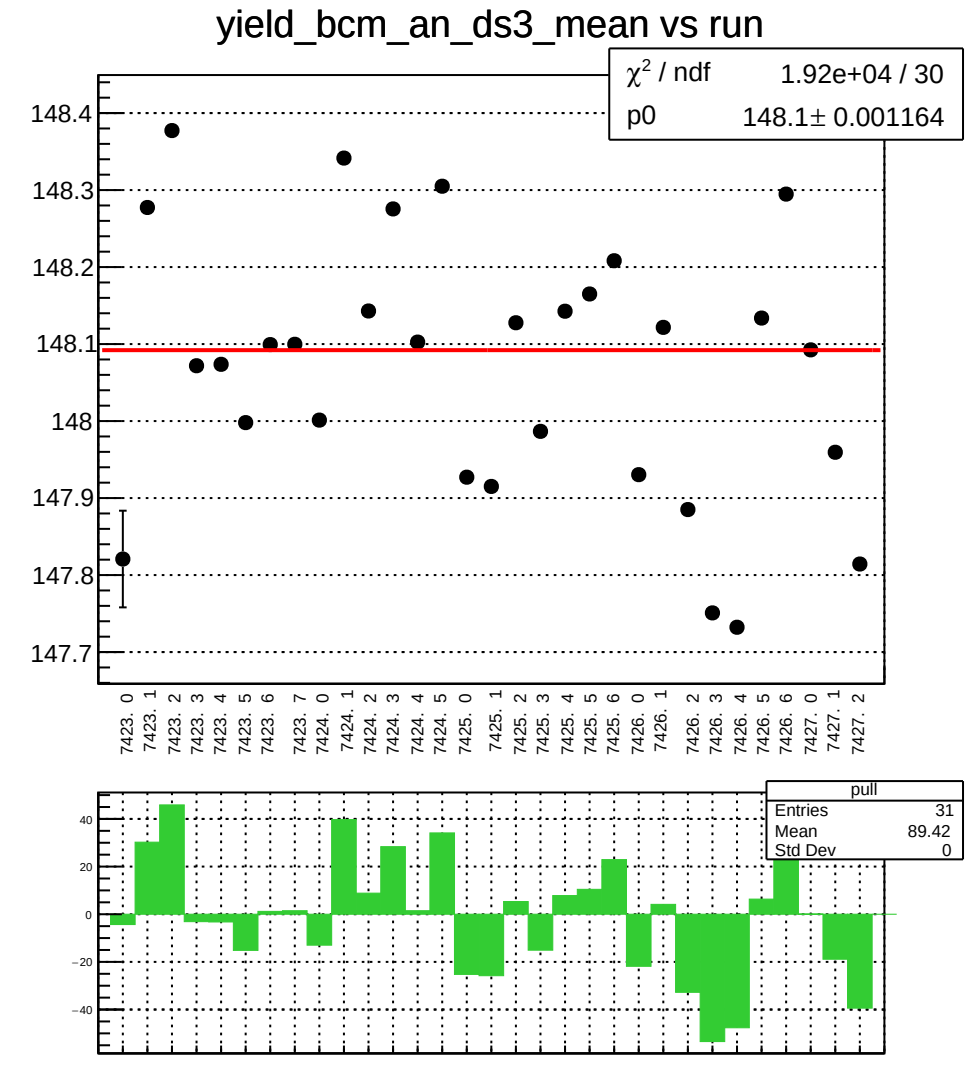

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

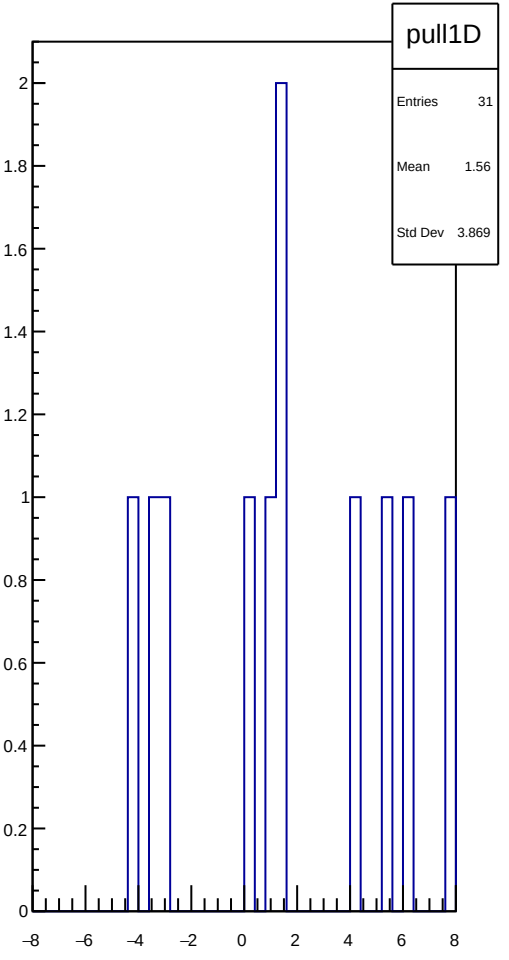

yield_bcm_an_diff_rms vs run
χ² / ndf 7.529e+04 / 30
p0 5149 ± 7.14
35000
30000
25000
20000
15000
10000
5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

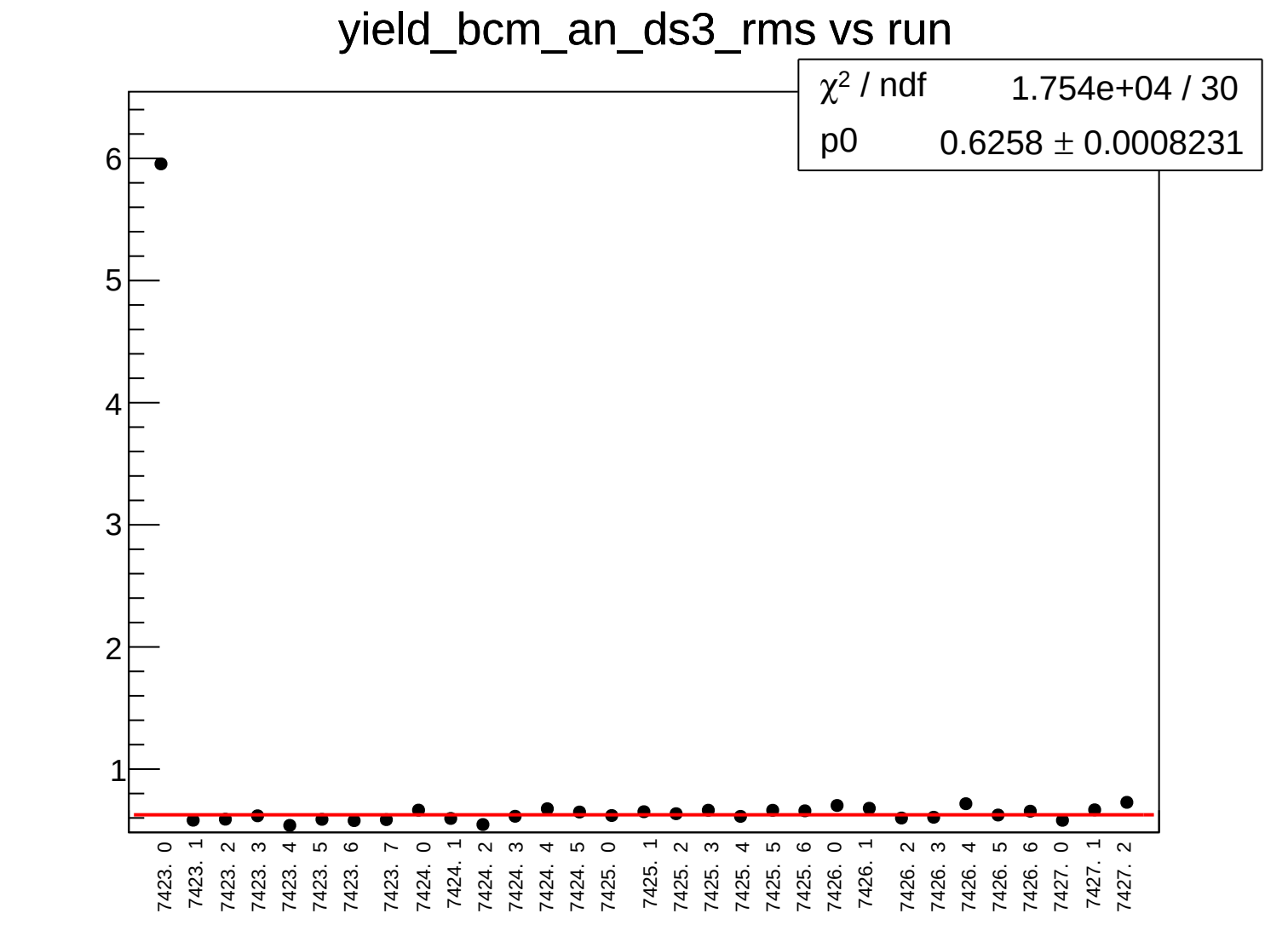

yield_bcm_an_ds_mean vs run
χ² / ndf 1.975e+04 / 30
p0 148 ± 0.001159
148.3
148.2
148.1
148
147.9
147.8
147.7
147.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 90.11
Std Dev 0
40
20
0
−20
−40
−60

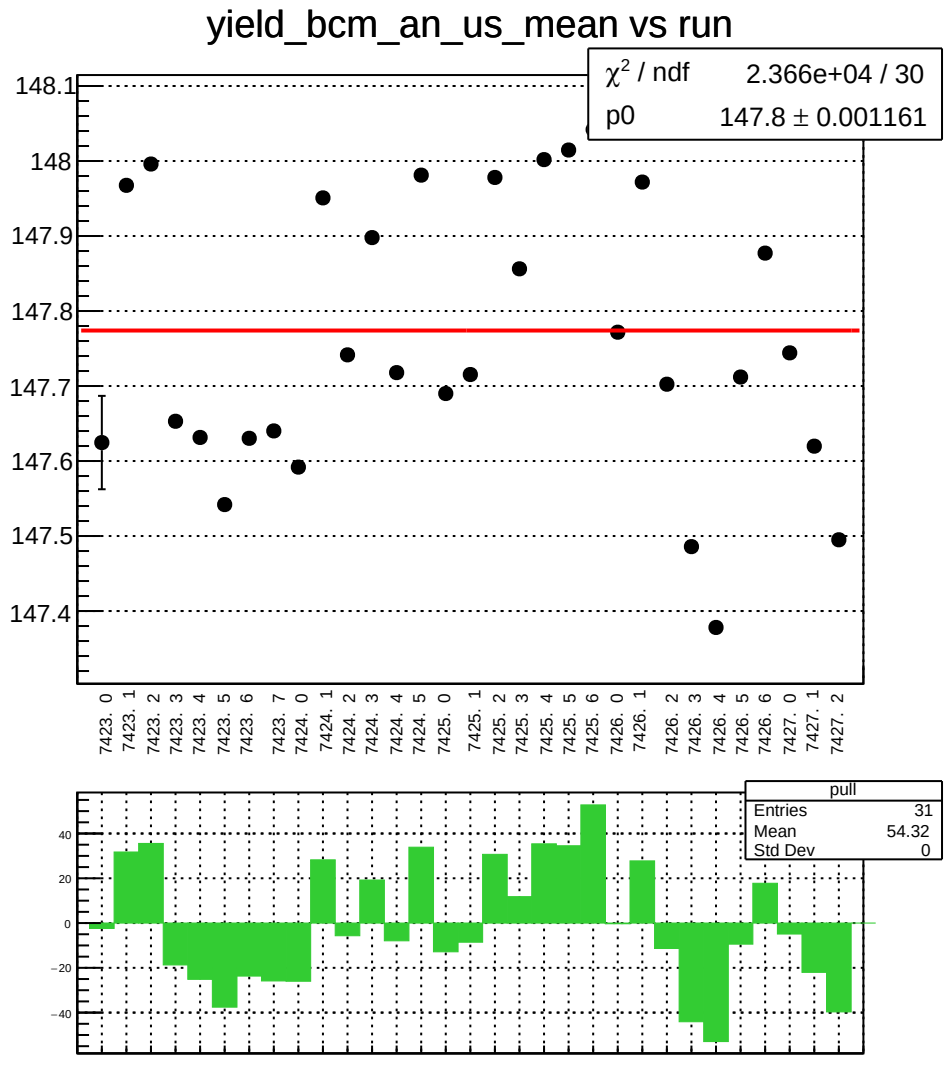

pull1D
Entries 31
Mean 1.012
Std Dev 3.853
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

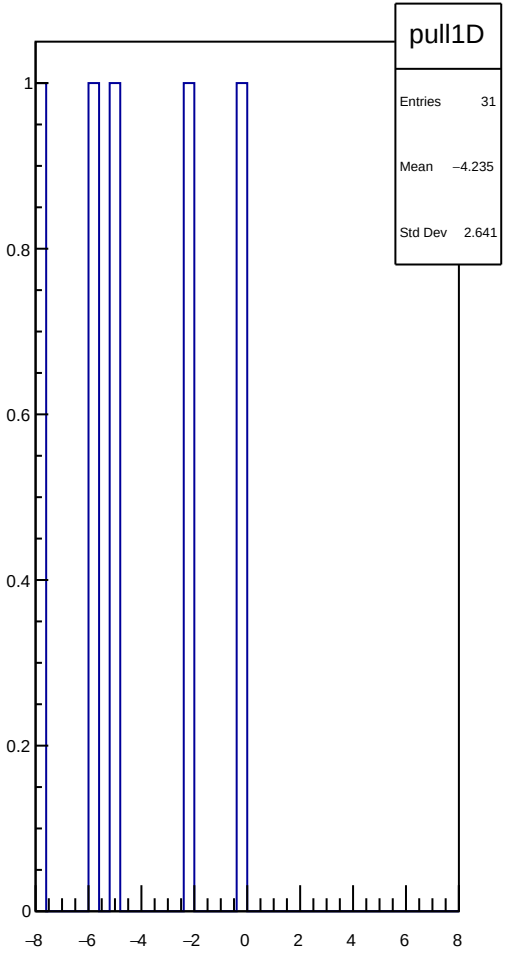

yield_bcm_an_ds_rms vs run
χ² / ndf 1.755e+04 / 30
p0 0.6231 ± 0.0008196
6
5
4
3
2
1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

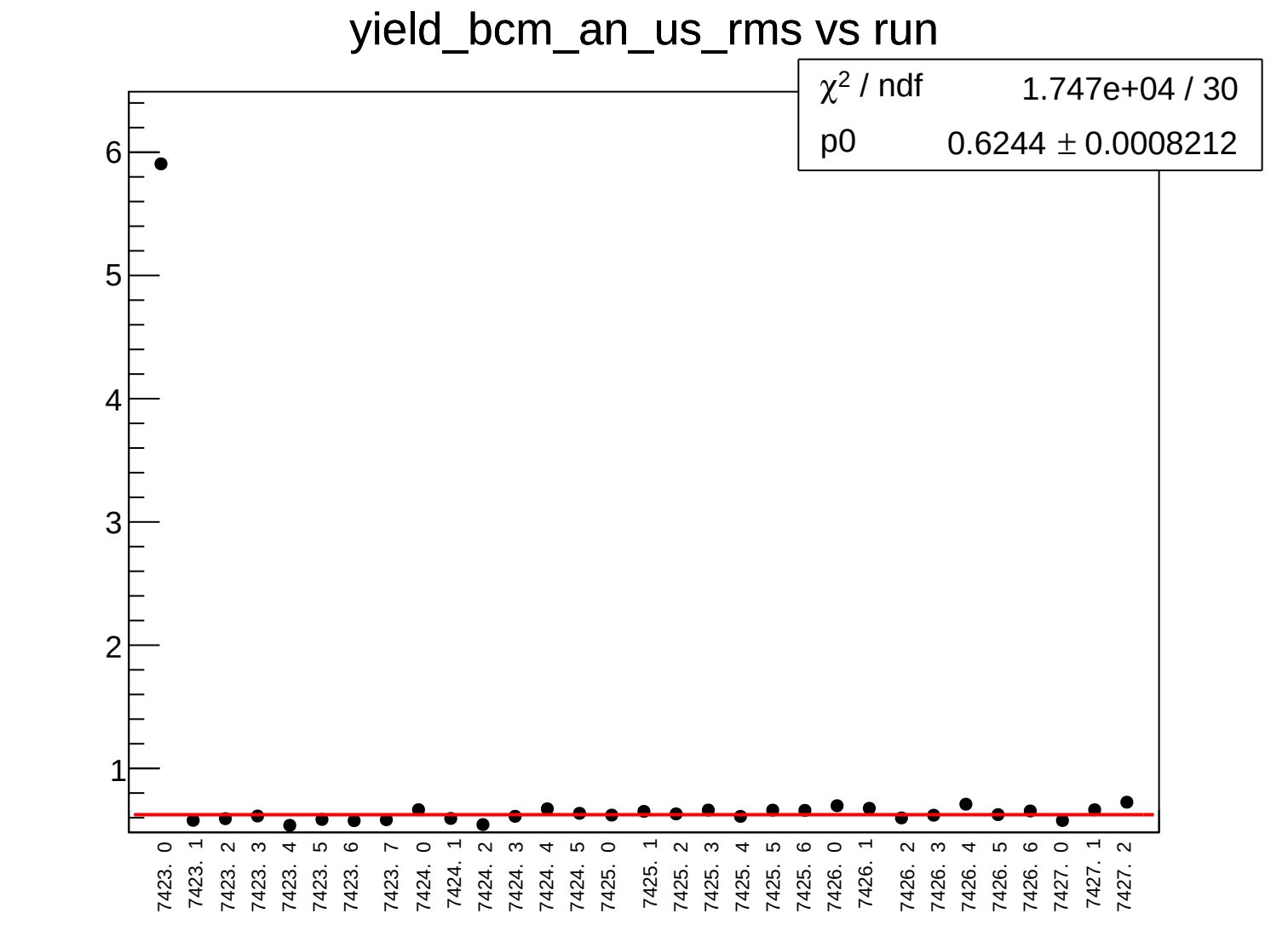

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.92e+04 / 30
p0 148.1± 0.001164
148.4
148.3
148.2
148.1
148
147.9
147.8
147.7
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 89.42
Std Dev 0
40
20
0
−20
−40

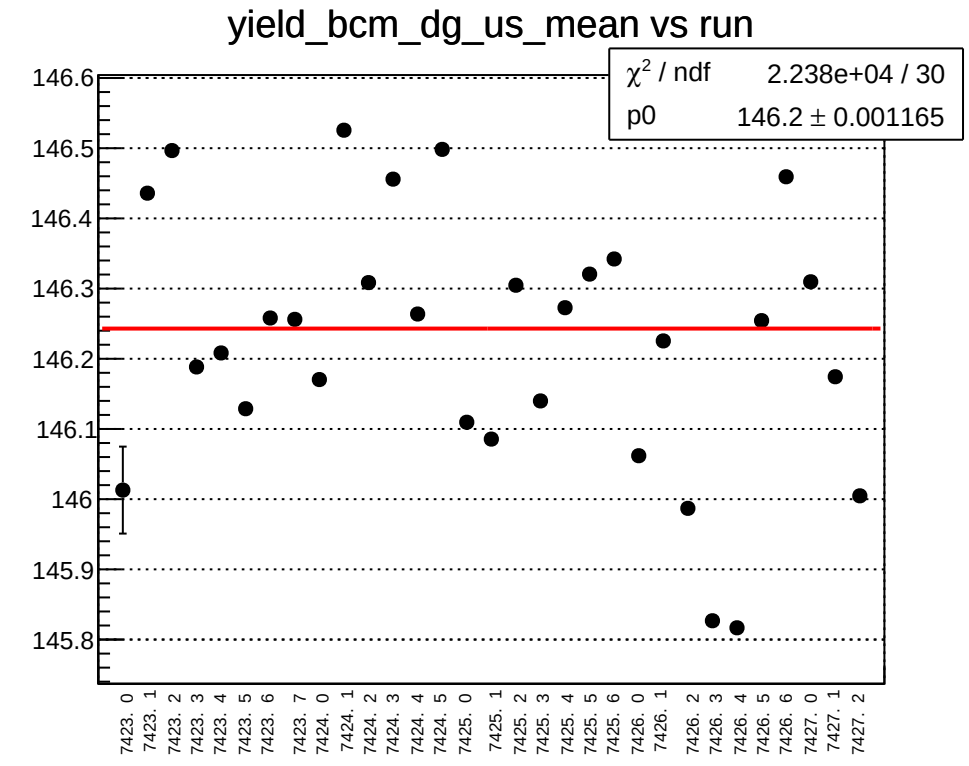

pull1D
Entries 31
Mean 1.56
Std Dev 3.869
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

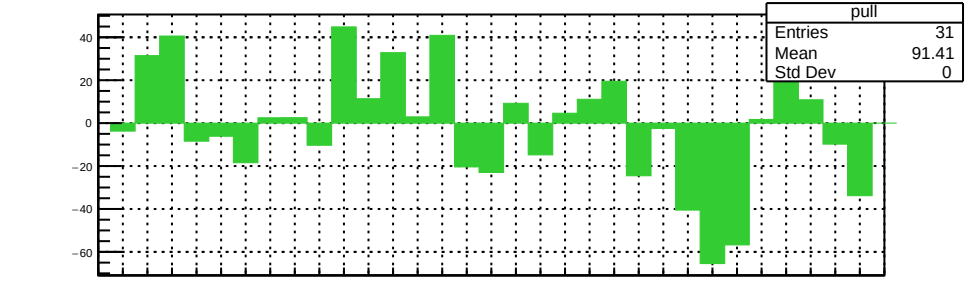

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.754e+04 / 30
p0 0.6258 ± 0.0008231
6
5
4
3
2
1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

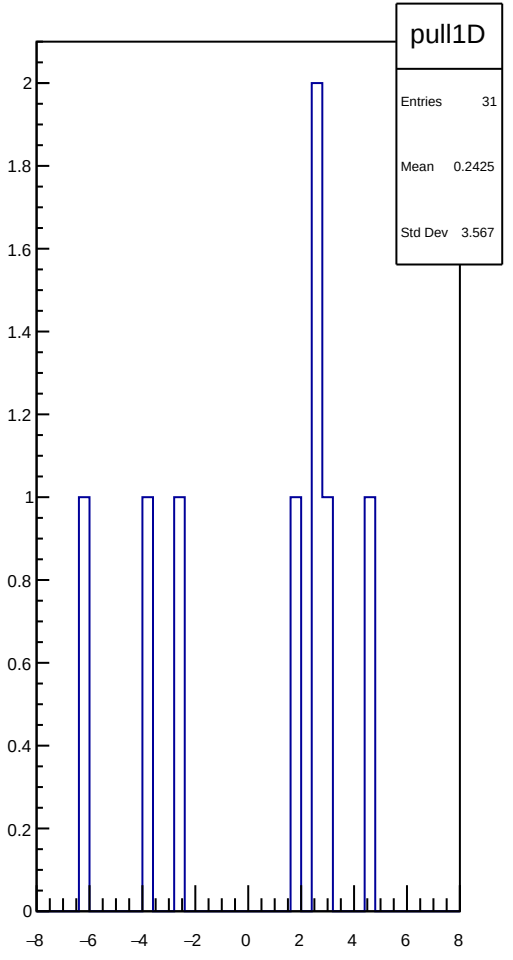

yield_bcm_an_us_mean vs run
χ² / ndf 2.366e+04 / 30
p0 147.8 ± 0.001161
148.1
148
147.9
147.8
147.7
147.6
147.5
147.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 54.32
Std Dev 0
40
20
0
−20
−40

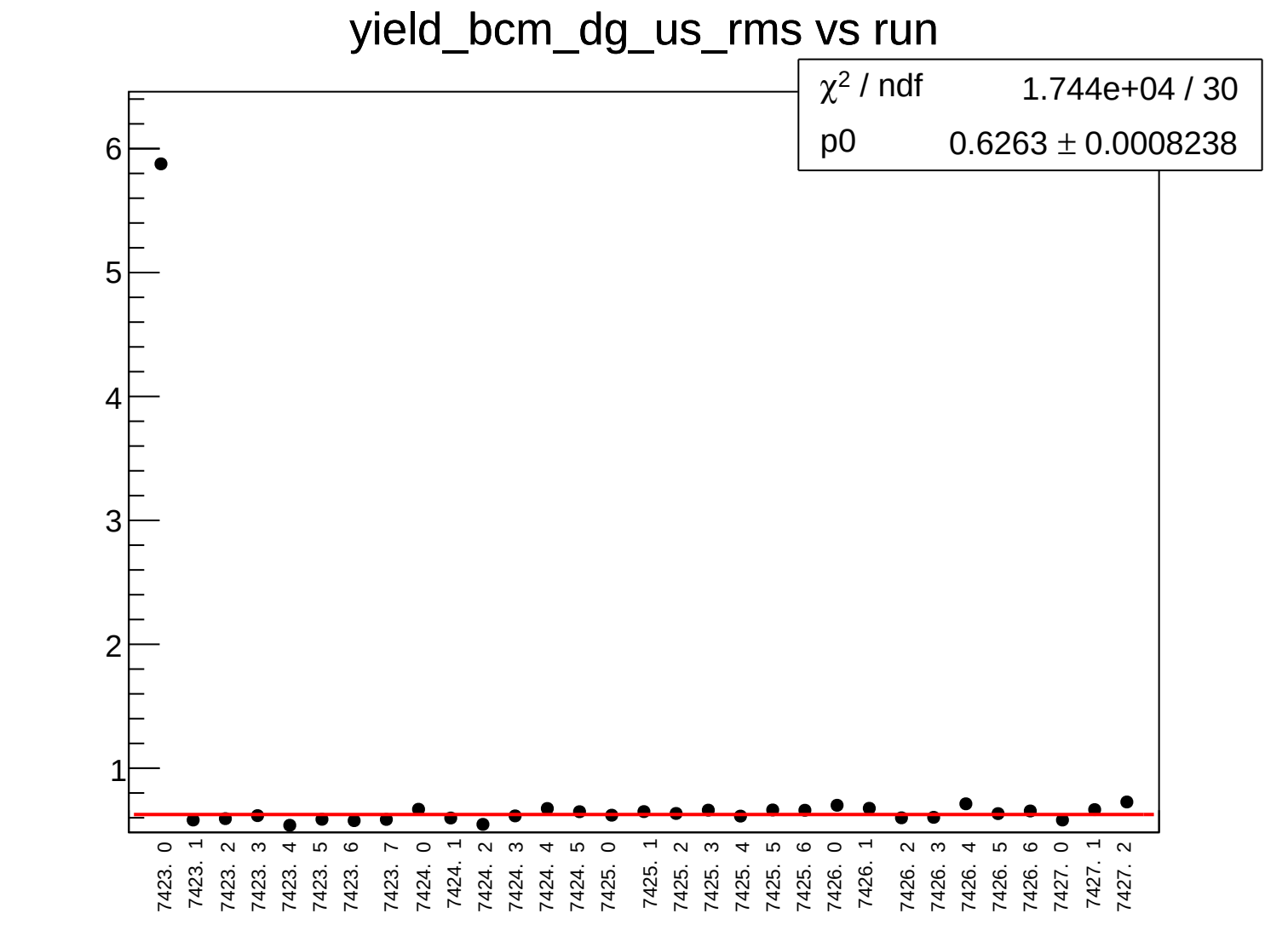

pull1D
Entries 31
Mean −4.235
Std Dev 2.641
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

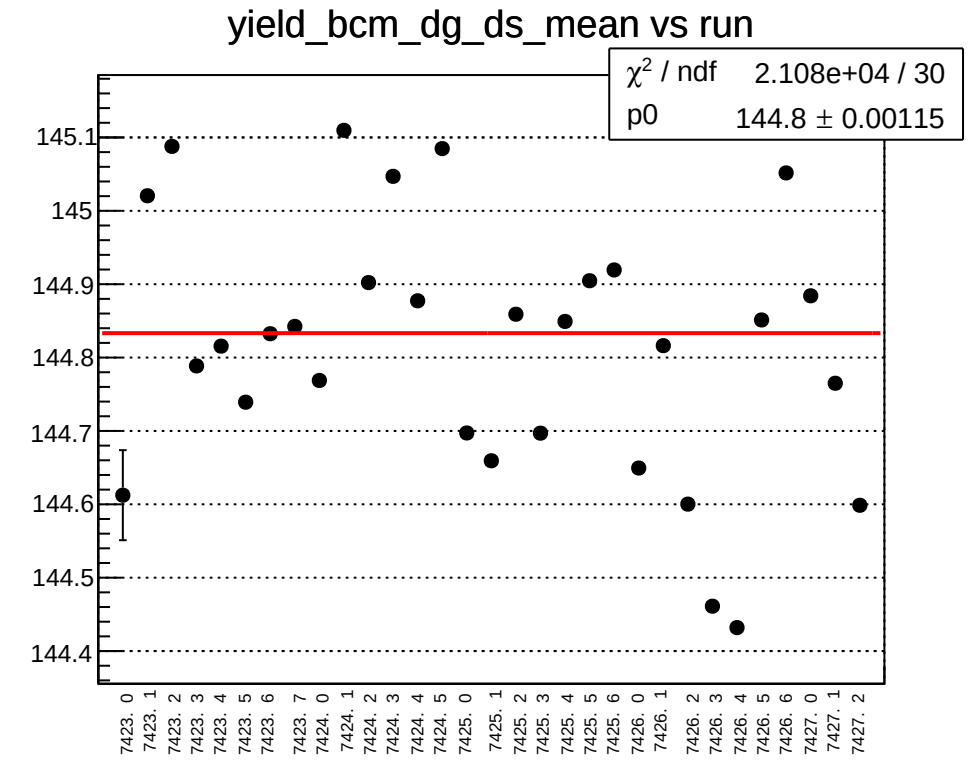

yield_bcm_an_us_rms vs run
χ² / ndf 1.747e+04 / 30
p0 0.6244 ± 0.0008212
6
5
4
3
2
1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

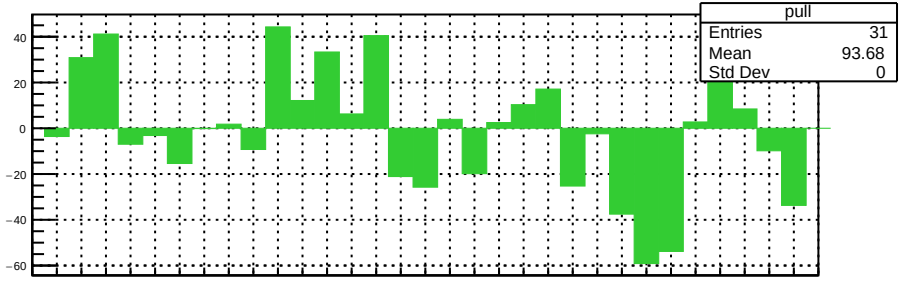

yield_bcm_dg_us_mean vs run
χ² / ndf 2.238e+04 / 30
p0 146.2 ± 0.001165
146.6
146.5
146.4
146.3
146.2
146.1
146
145.9
145.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

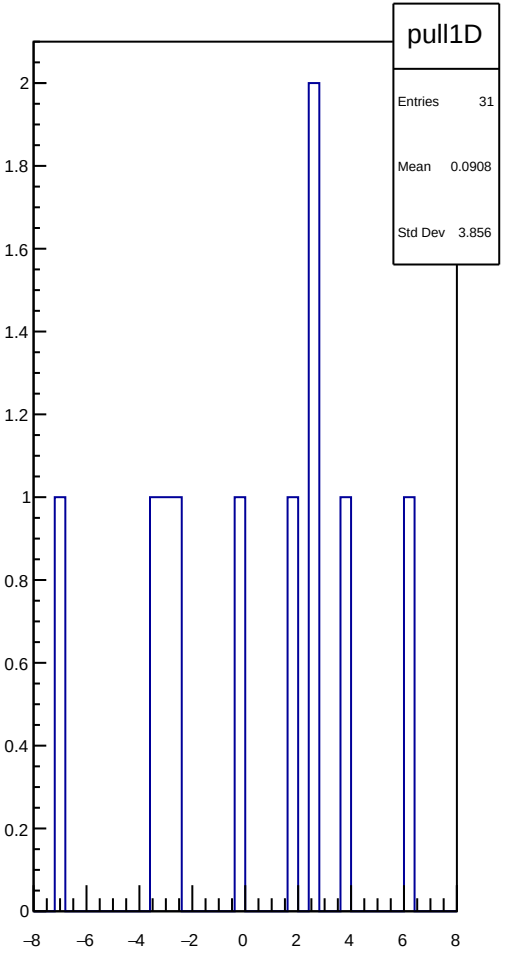

pull
Entries 31
Mean 91.41
Std Dev 0
40
20
0
−20
−40
−60

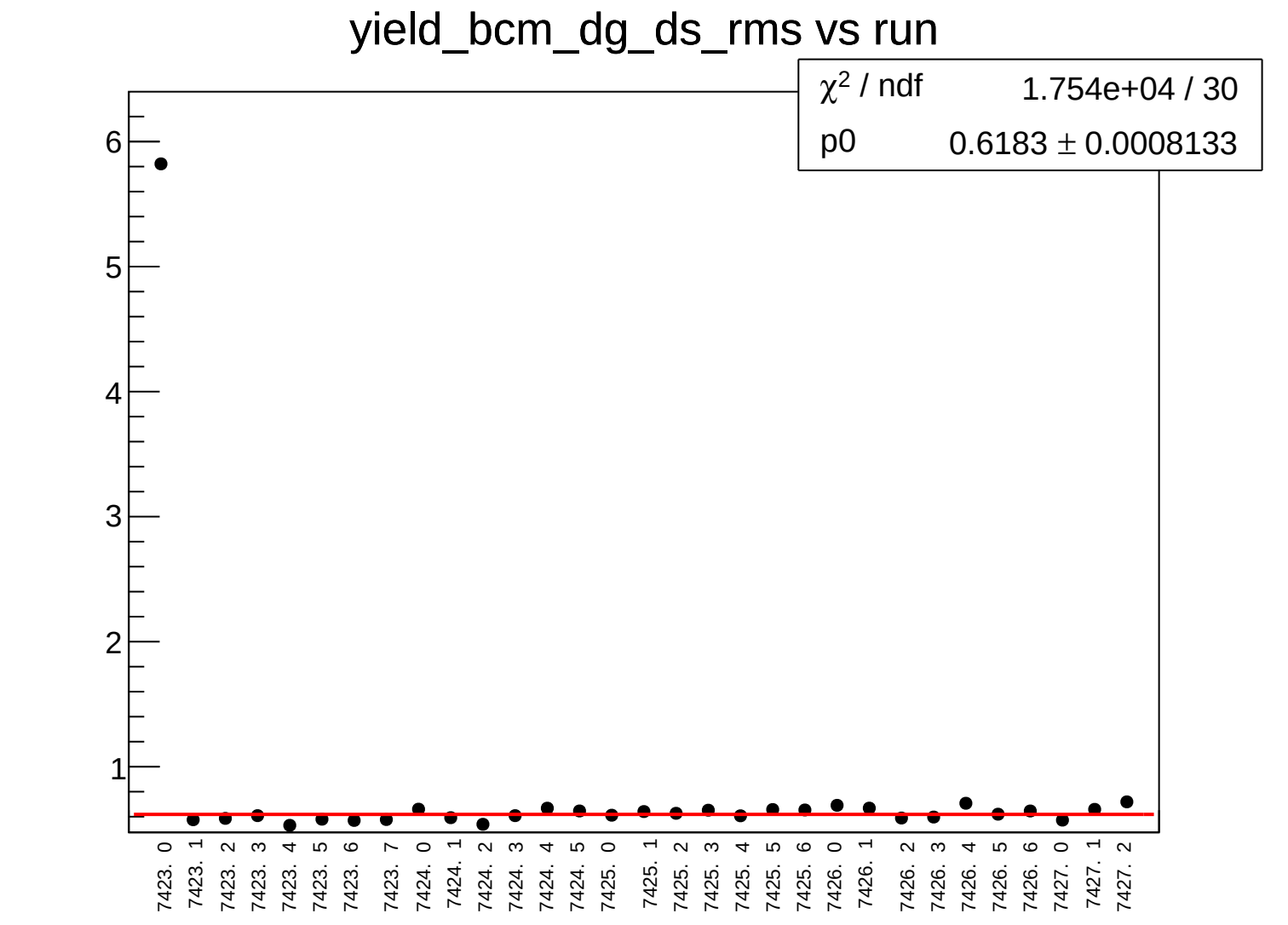

pull1D
Entries 31
Mean 0.2425
Std Dev 3.567
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

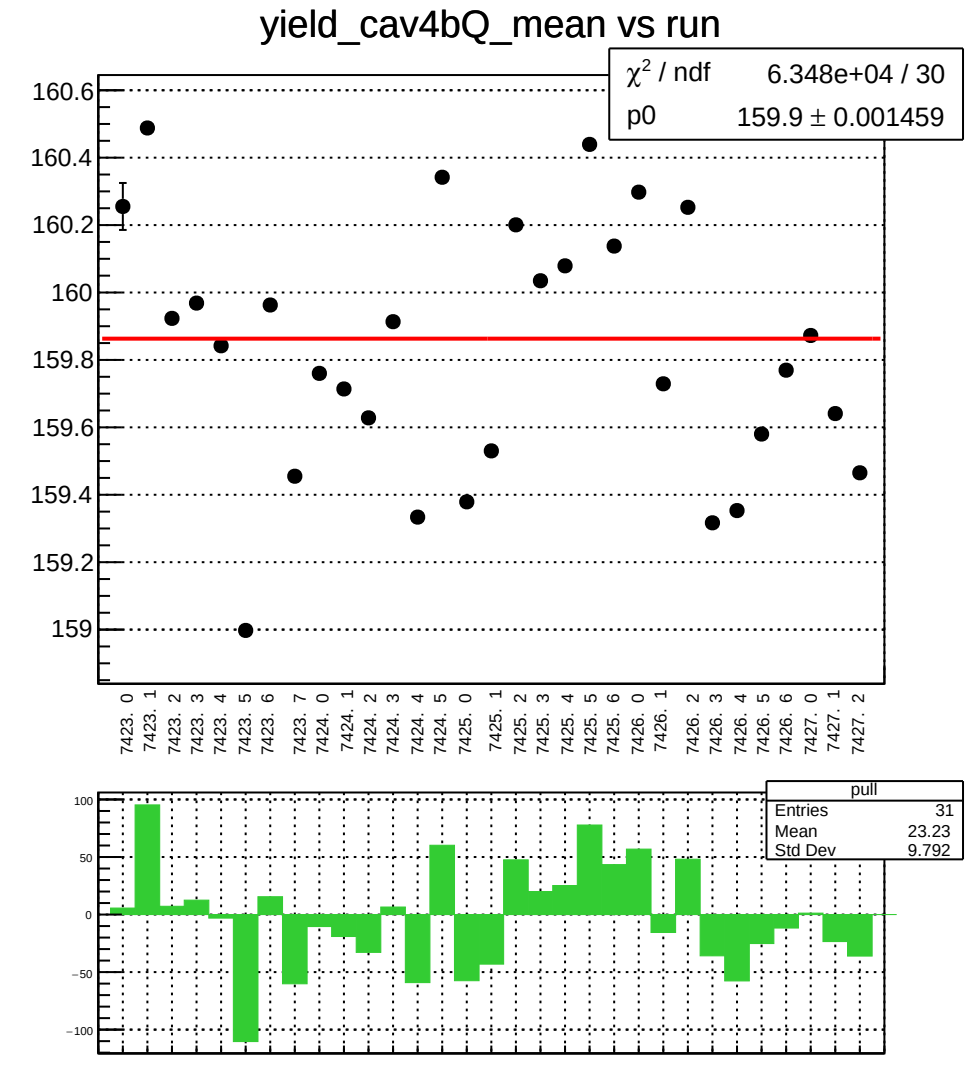

yield_bcm_dg_us_rms vs run
χ² / ndf 1.744e+04 / 30
p0 0.6263 ± 0.0008238
6
5
4
3
2
1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

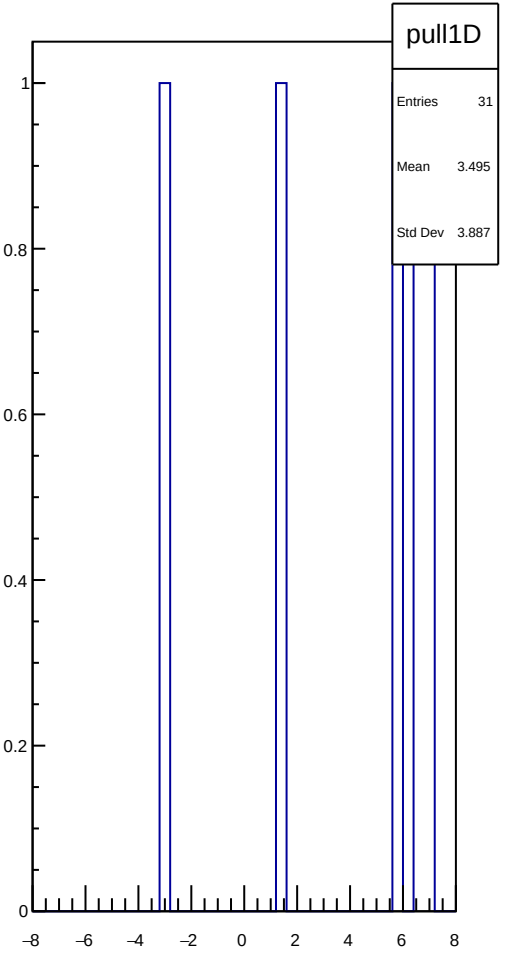

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.108e+04 / 30
p0 144.8 ± 0.00115
145.1
145
144.9
144.8
144.7
144.6
144.5
144.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

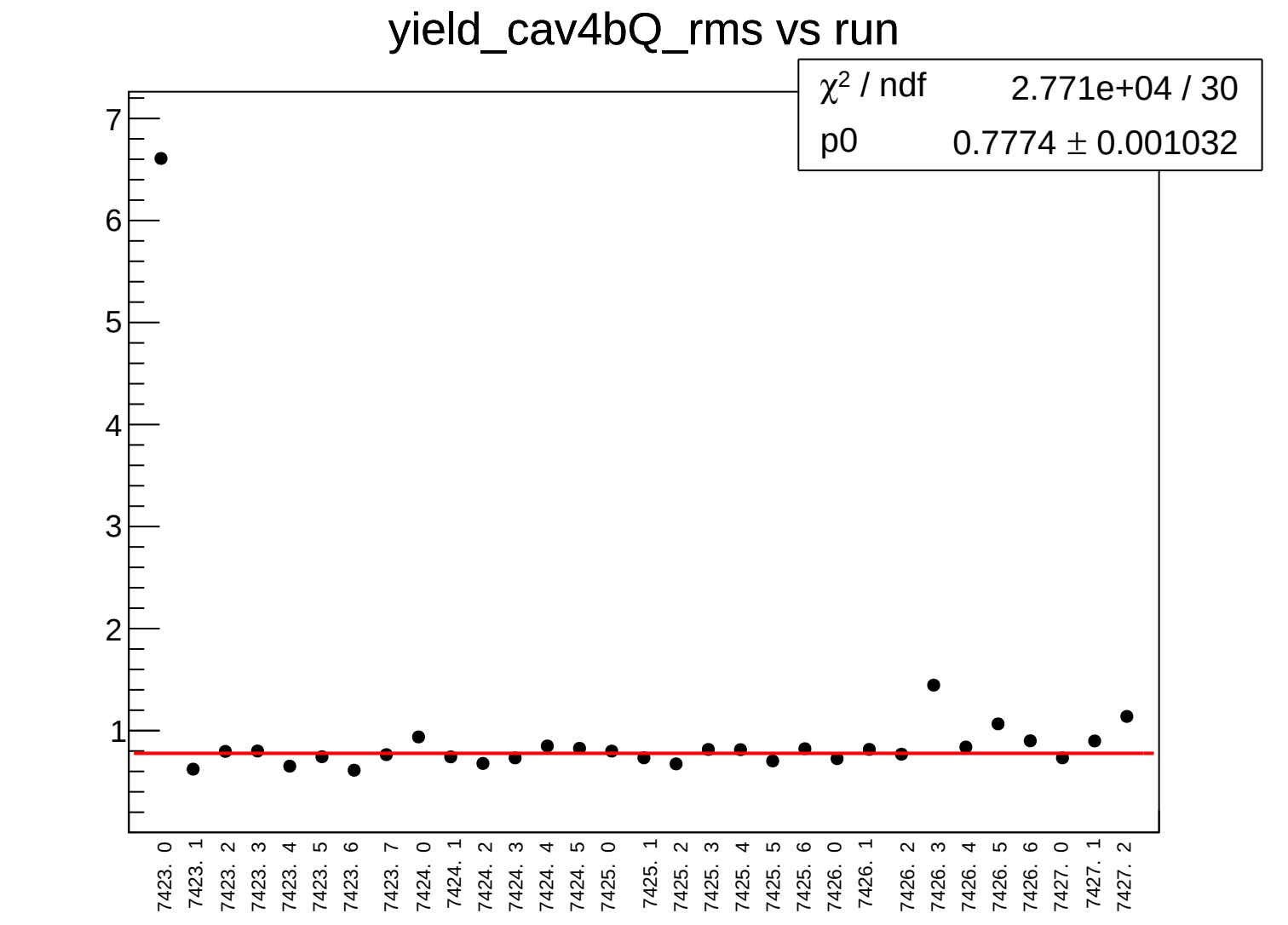

pull
Entries 31
Mean 93.68
Std Dev 0
40
20
0
−20
−40
−60

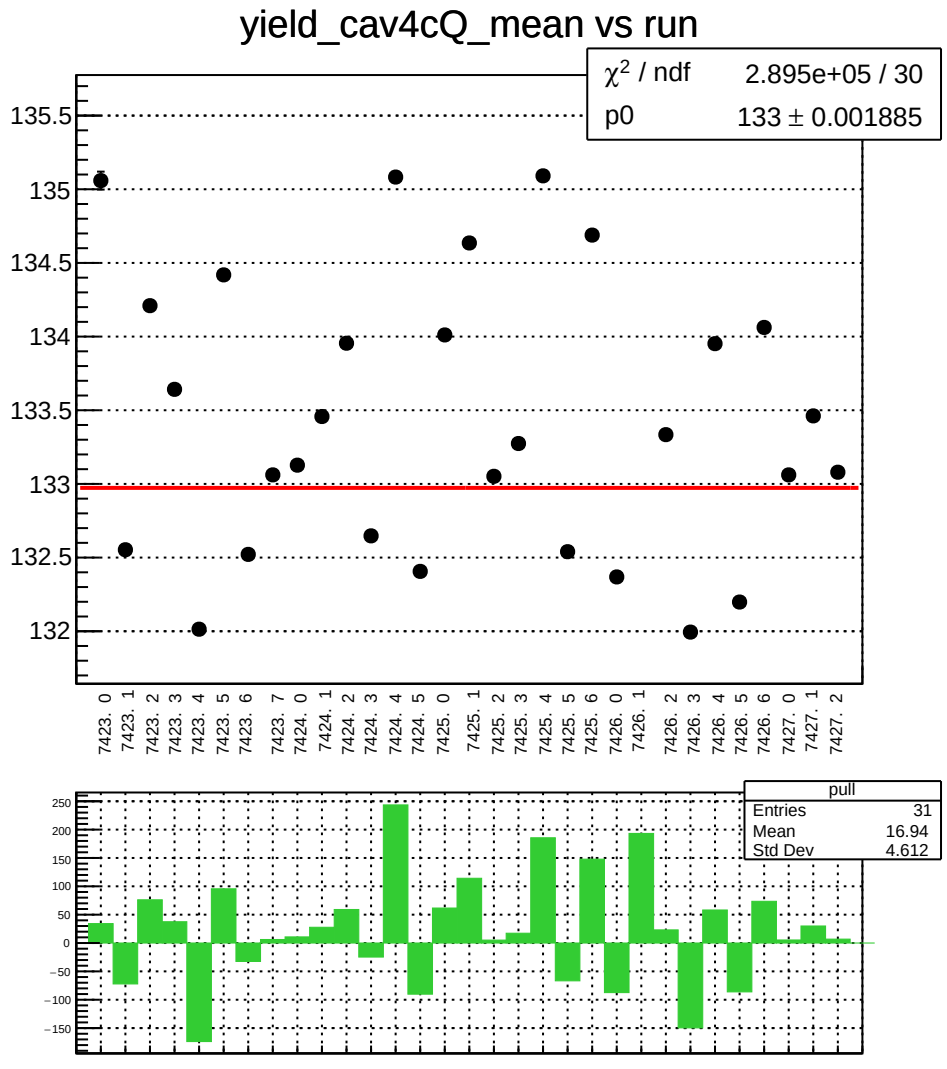

pull1D
Entries 31
Mean 0.0908
Std Dev 3.856
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

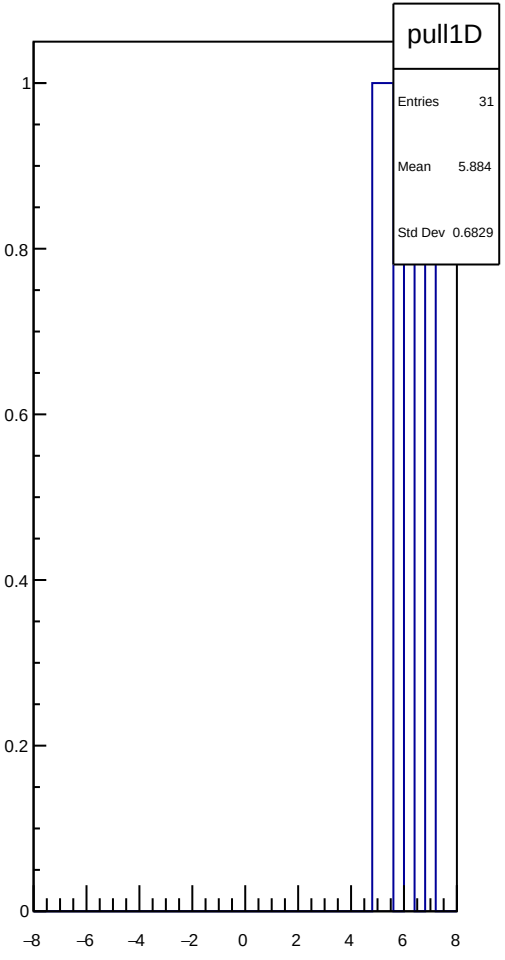

yield_bcm_dg_ds_rms vs run
χ2 / ndf 1.754e+04 / 30
p0 0.6183 ± 0.0008133
6
5
4
3
2
1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

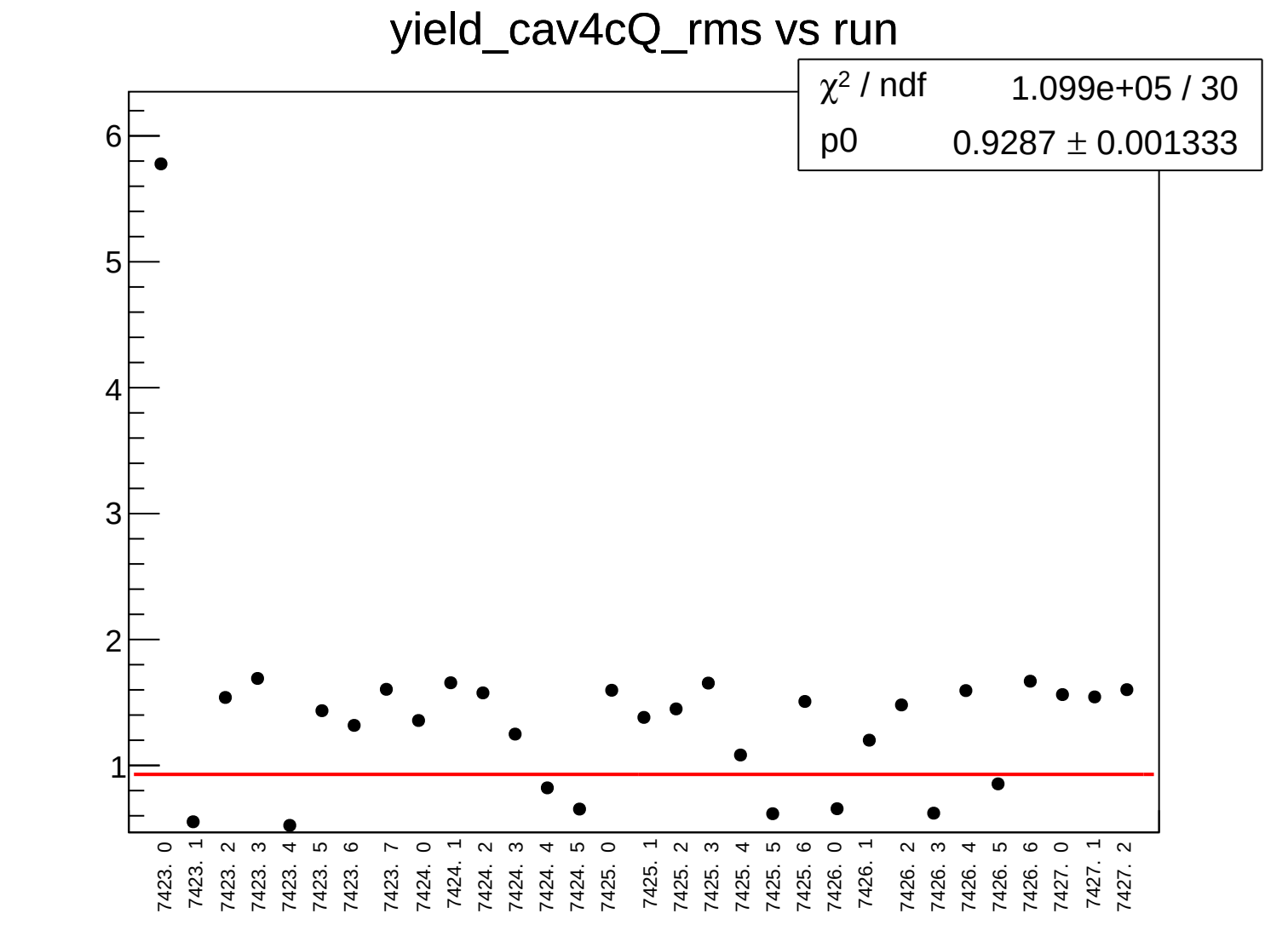

yield_cav4bQ_mean vs run
χ² / ndf 6.348e+04 / 30
p0 159.9 ± 0.001459
160.6
160.4
160.2
160
159.8
159.6
159.4
159.2
159
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 23.23
Std Dev 9.792
100
50
0
−50
−100

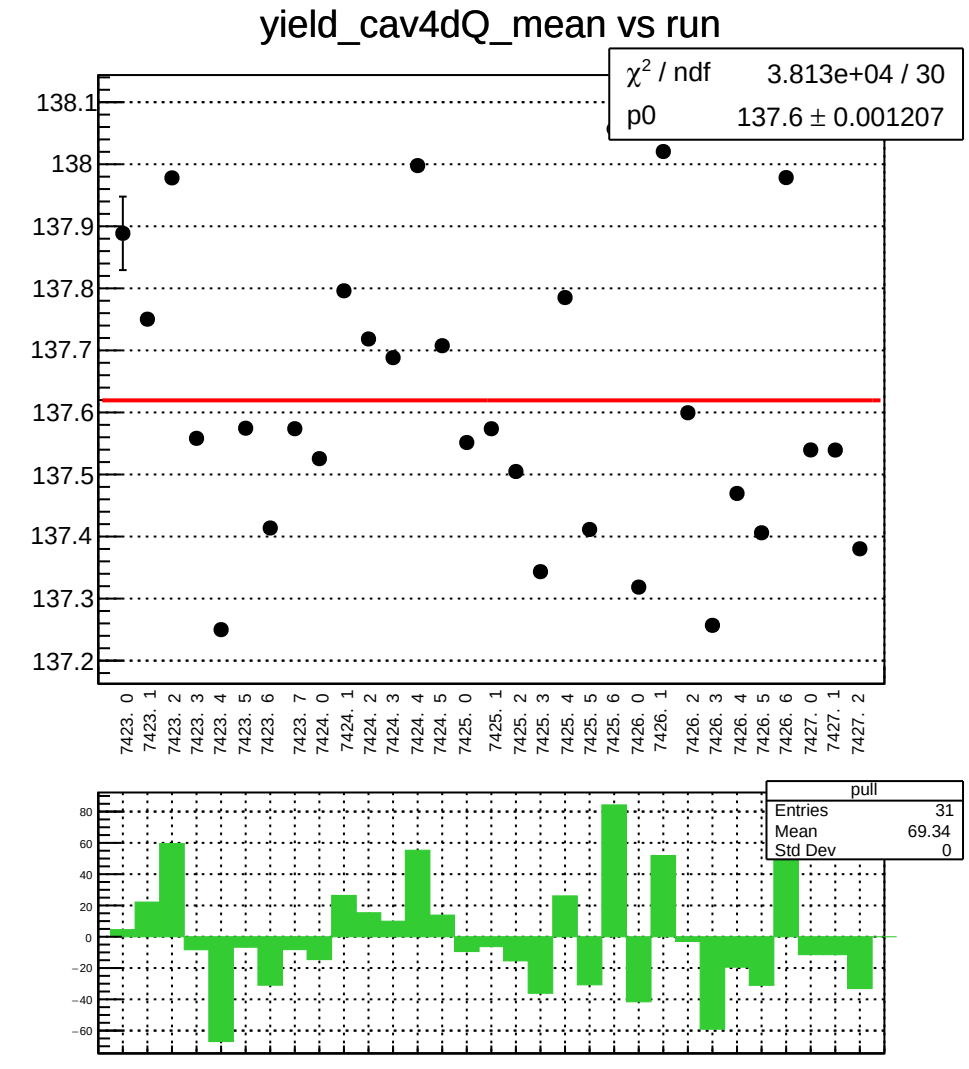

pull1D
Entries 31
Mean 3.495
Std Dev 3.887
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

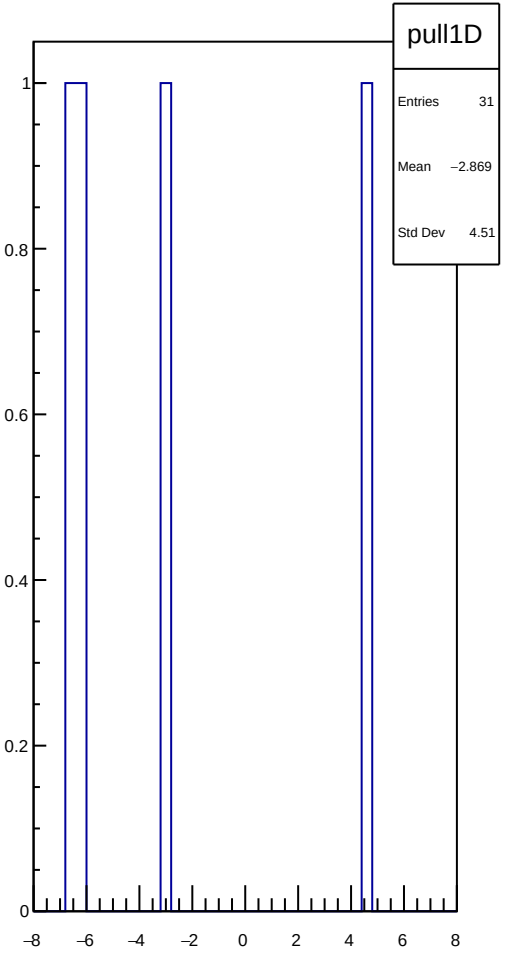

yield_cav4bQ_rms vs run
χ² / ndf 2.771e+04 / 30
p0 0.7774 ± 0.001032
7
6
5
4
3
2
1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

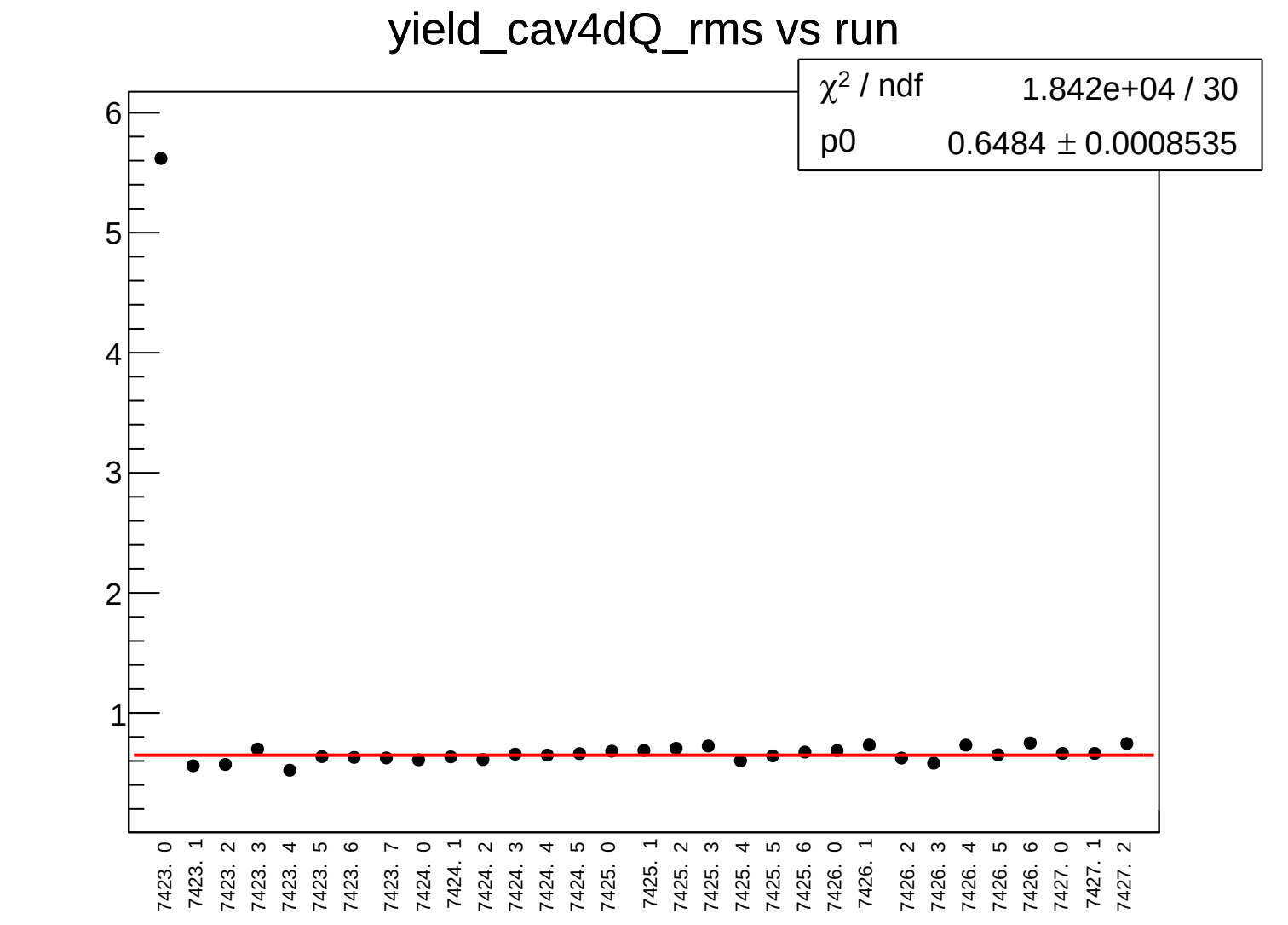

yield_cav4cQ_mean vs run
χ² / ndf 2.895e+05 / 30
p0 133 ± 0.001885
135.5
135
134.5
134
133.5
133
132.5
132
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.94
Std Dev 4.612
250
200
150
100
50
0
−50
−100
−150

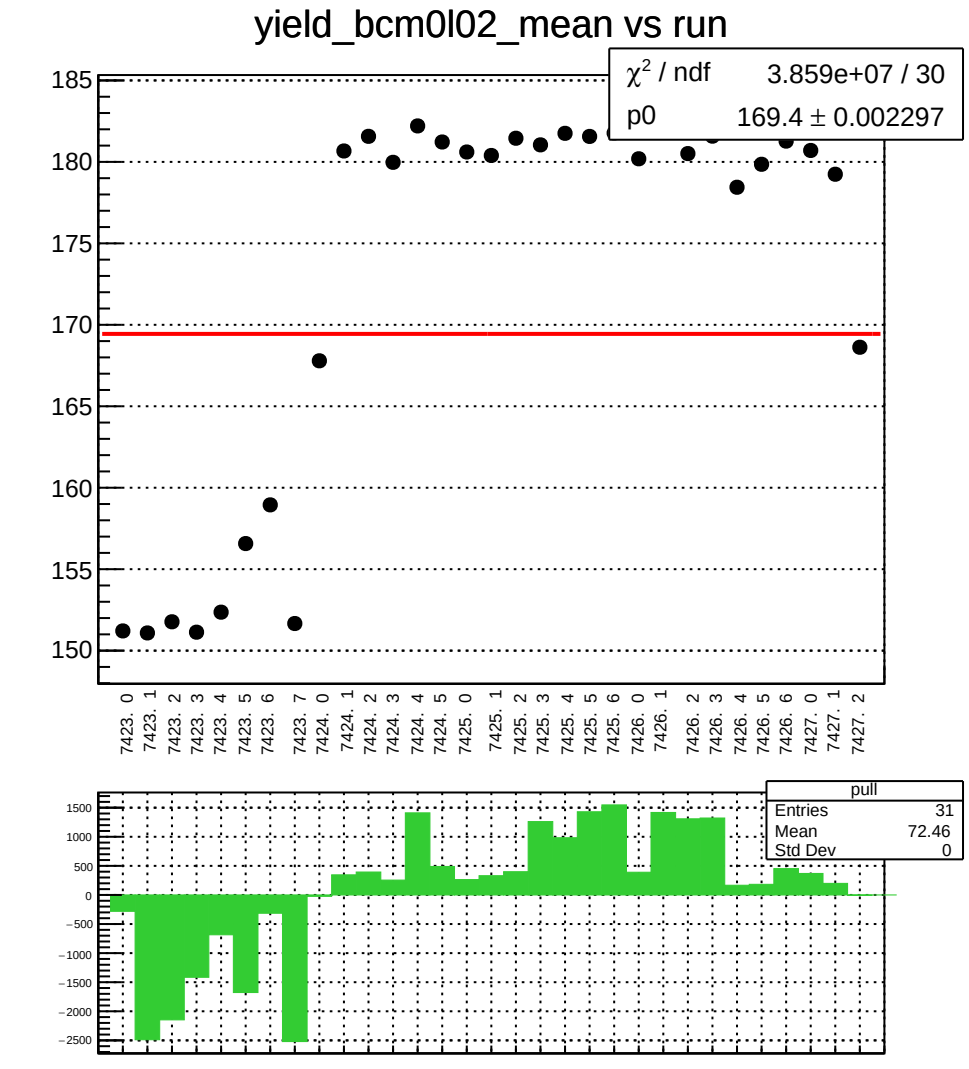

pull1D
Entries 31
Mean 5.884
Std Dev 0.6829
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

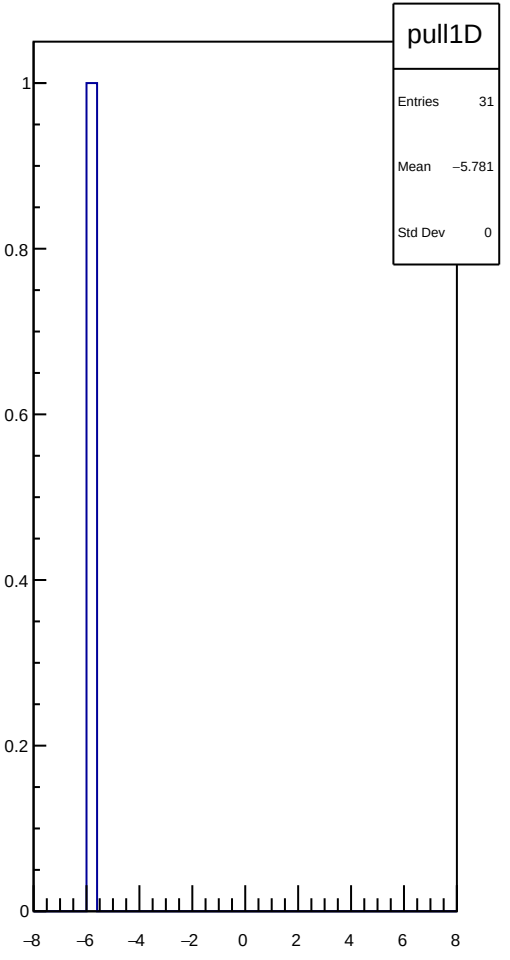

yield_cav4cQ_rms vs run
χ² / ndf 1.099e+05 / 30
p0 0.9287 ± 0.001333
6
5
4
3
2
1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

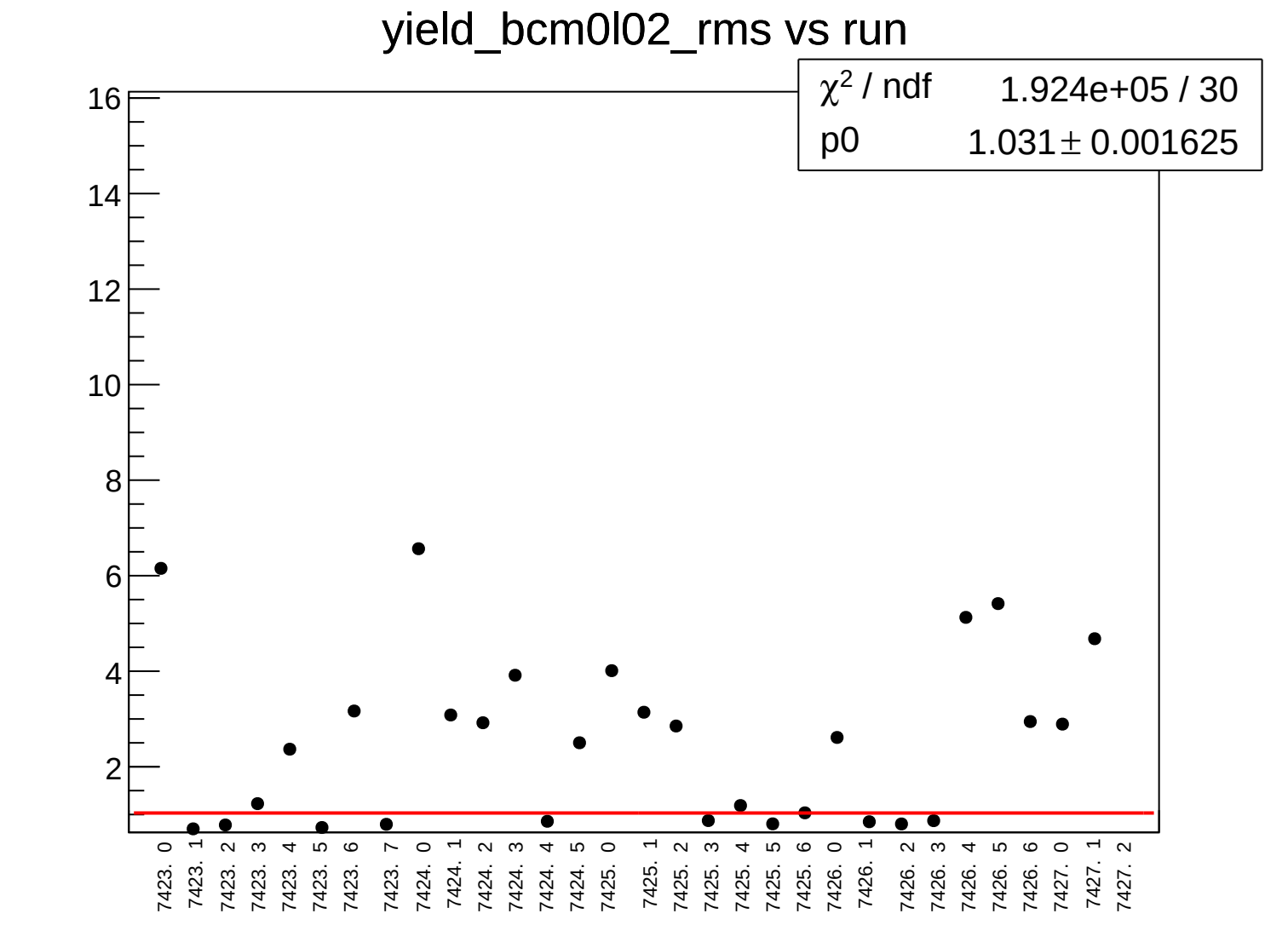

yield_cav4dQ_mean vs run
χ² / ndf 3.813e+04 / 30
p0 137.6 ± 0.001207
138.1
138
137.9
137.8
137.7
137.6
137.5
137.4
137.3
137.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 69.34
Std Dev 0
80
60
40
20
0
−20
−40
−60

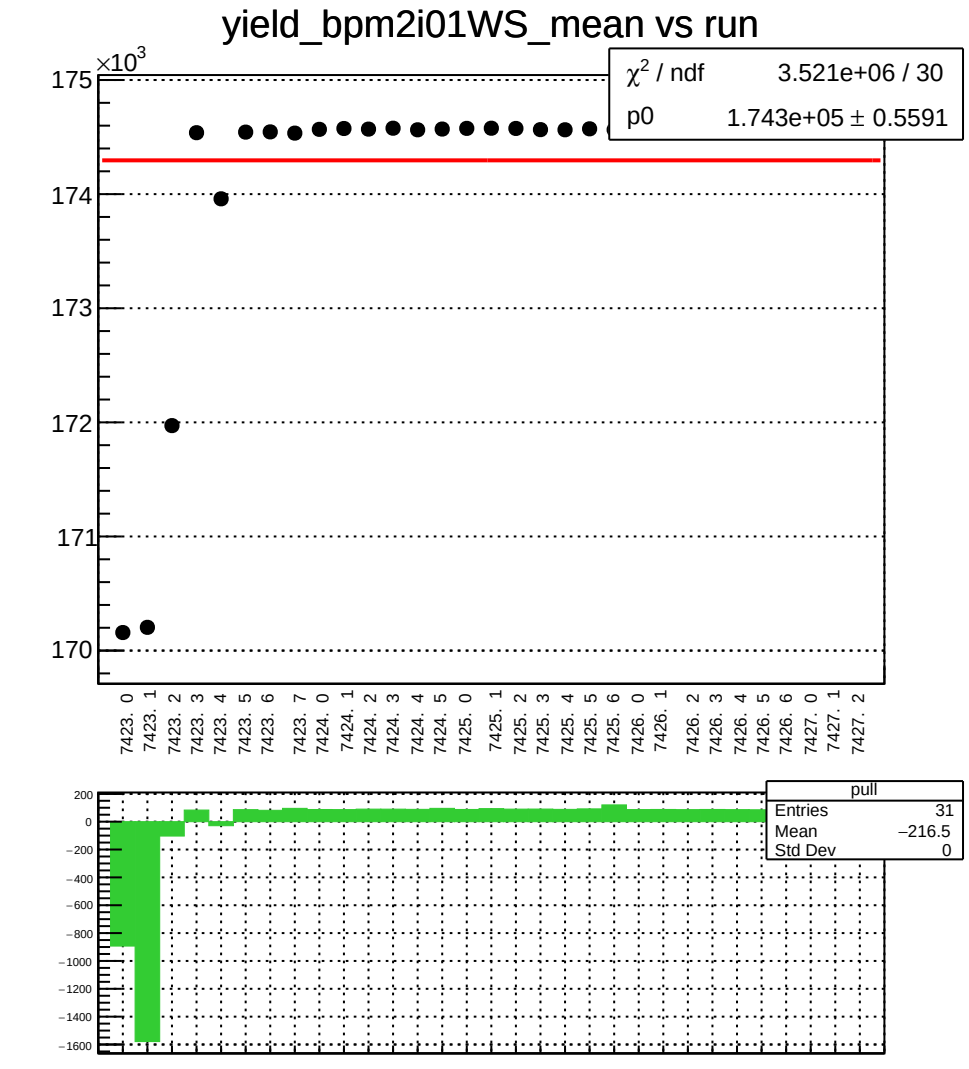

pull1D
Entries 31
Mean −2.869
Std Dev 4.51
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

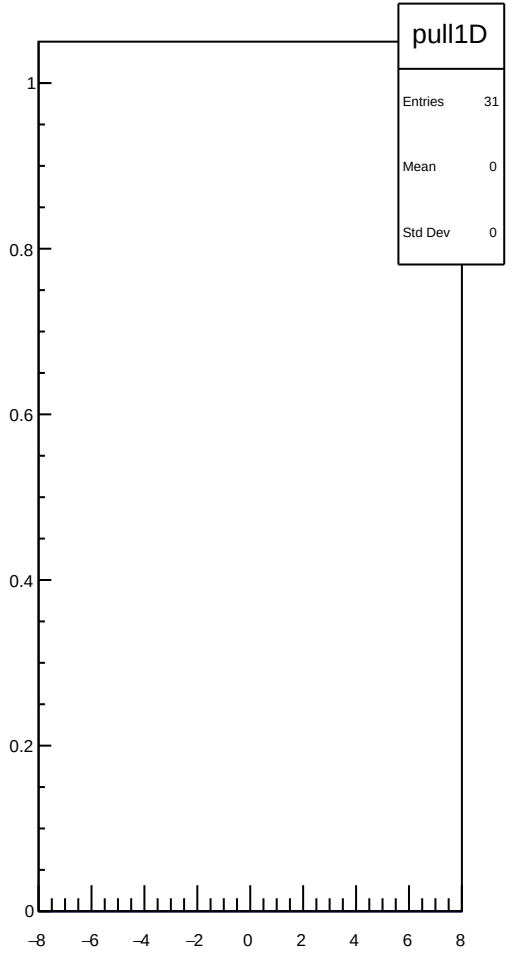

yield_cav4dQ_rms vs run
χ² / ndf 1.842e+04 / 30
p0 0.6484 ± 0.0008535
6
5
4
3
2
1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

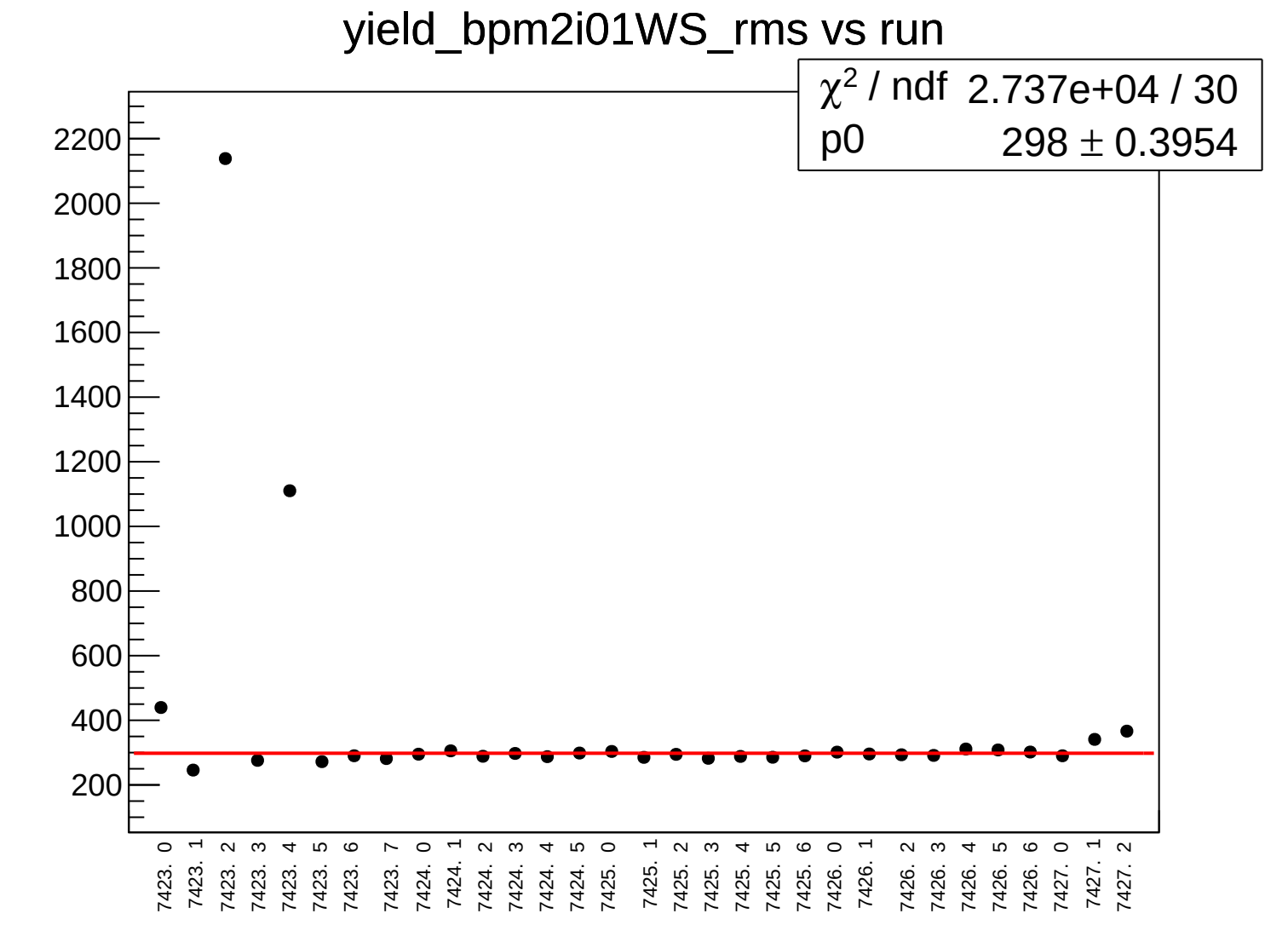

yield_bcm0l02_mean vs run
χ² / ndf 3.859e+07 / 30
p0 169.4 ± 0.002297
185
180
175
170
165
160
155
150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 72.46
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

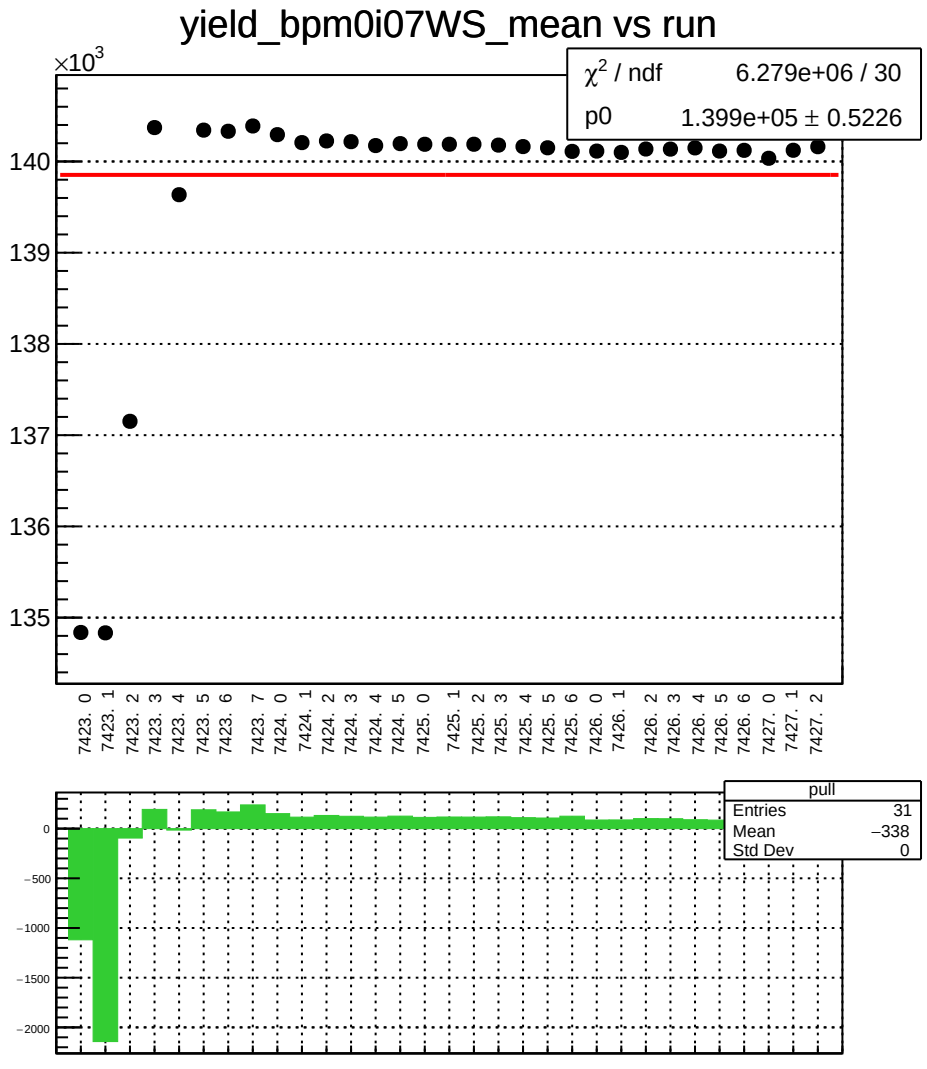

pull1D
Entries 31
Mean −5.781
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

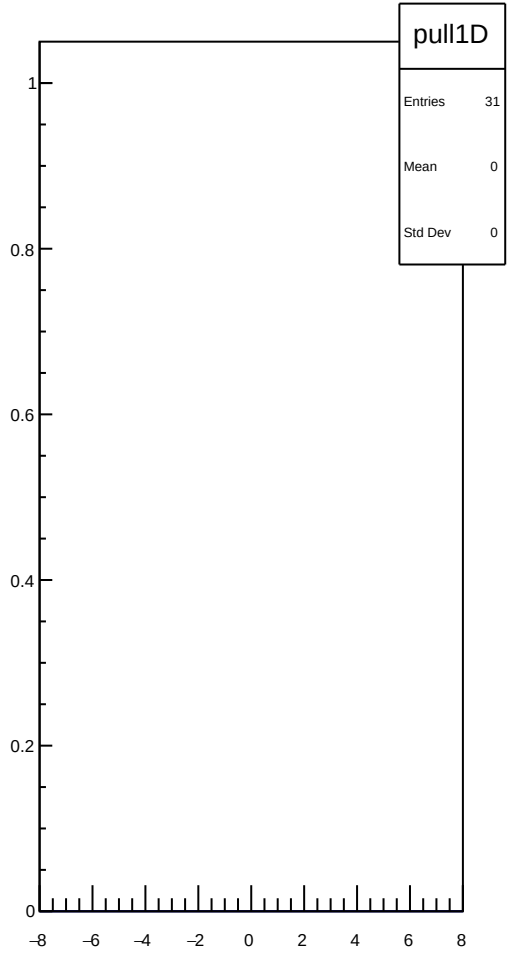

yield_bcm0l02_rms vs run
χ^2 / ndf 1.924e+05 / 30
p0 1.031 ± 0.001625
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

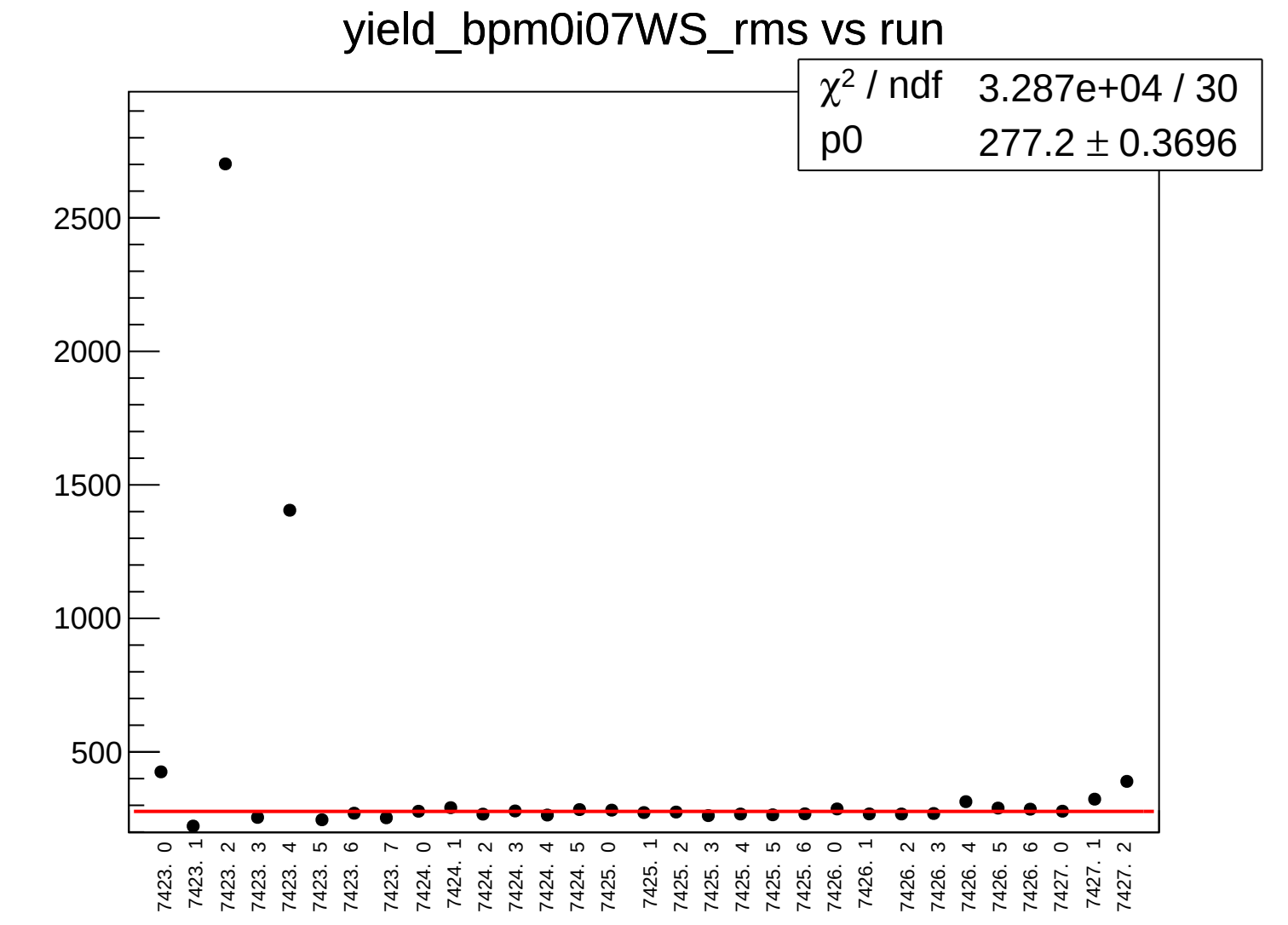

yield_bpm2i01WS_mean vs run
×10^3
175
174
173
172
171
170
χ² / ndf 3.521e+06 / 30
p0 1.743e+05 ± 0.5591
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull
Entries 31
Mean −216.5
Std Dev 0

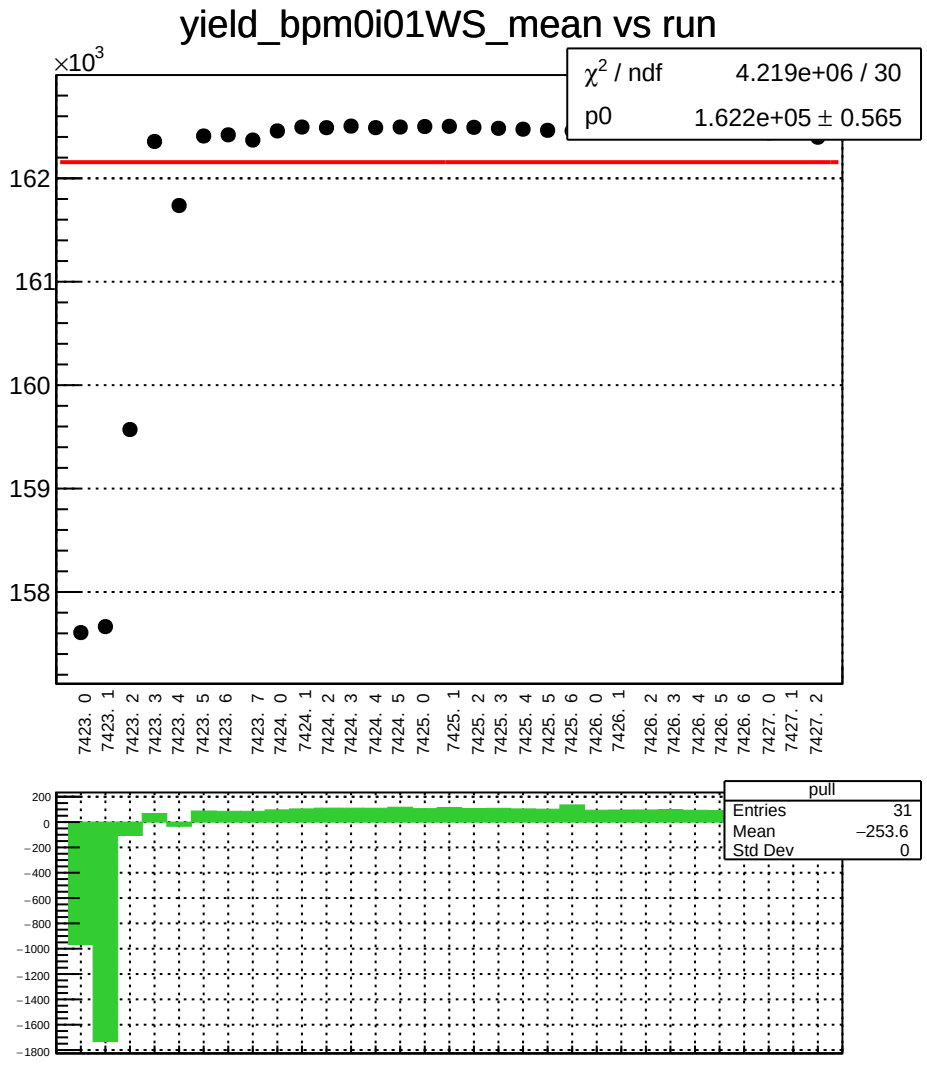

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

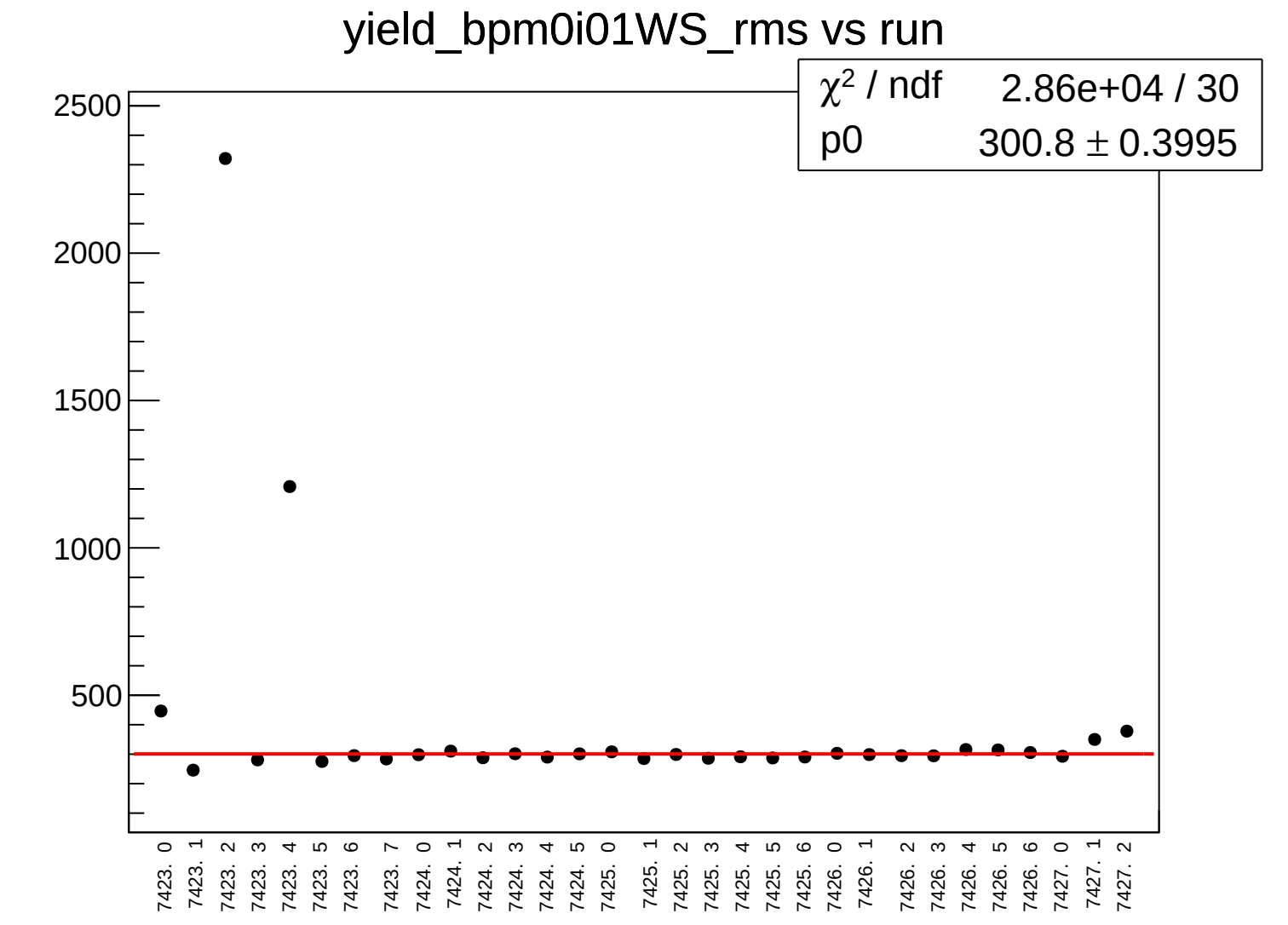

yield_bpm2i01WS_rms vs run
χ² / ndf 2.737e+04 / 30
p0 298 ± 0.3954
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

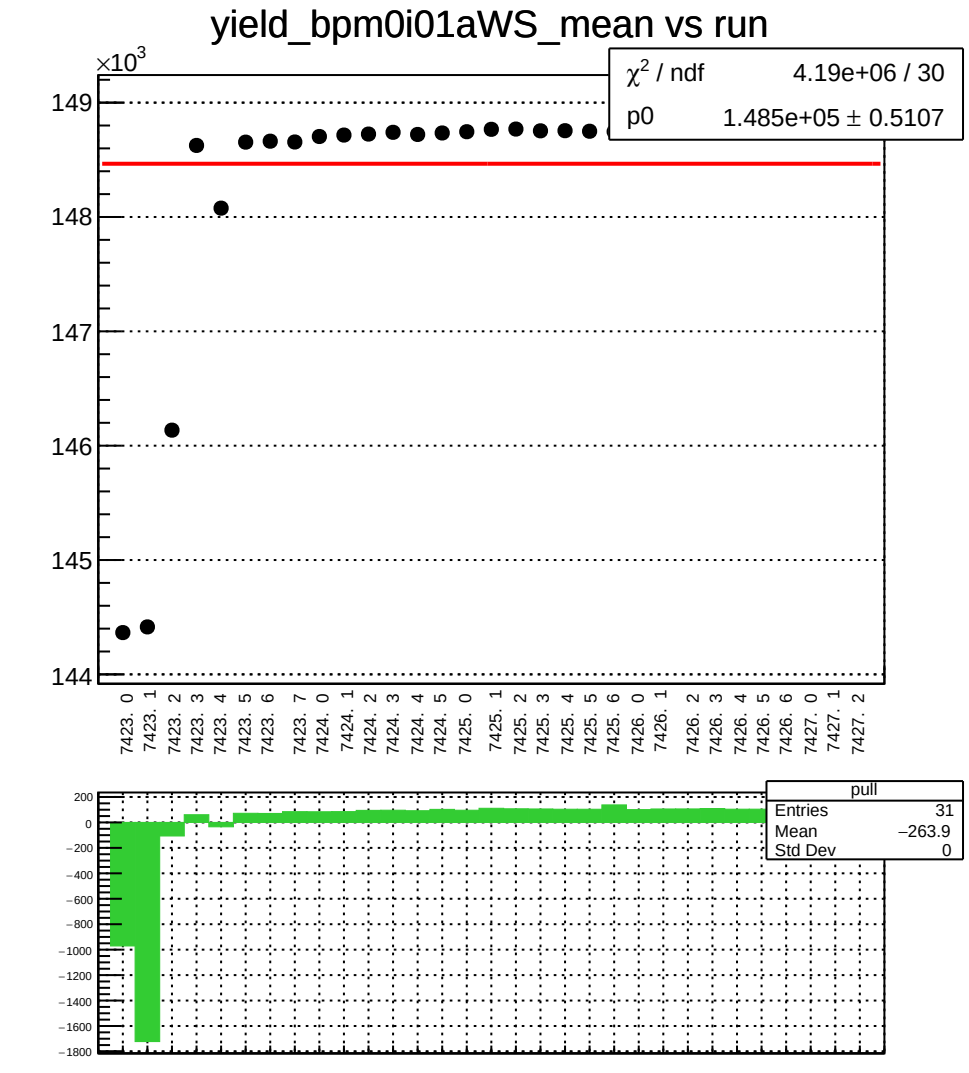

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 6.279e+06 / 30
p0 1.399e+05 ± 0.5226
140
139
138
137
136
135
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −338
Std Dev 0
0
−500
−1000
−1500
−2000

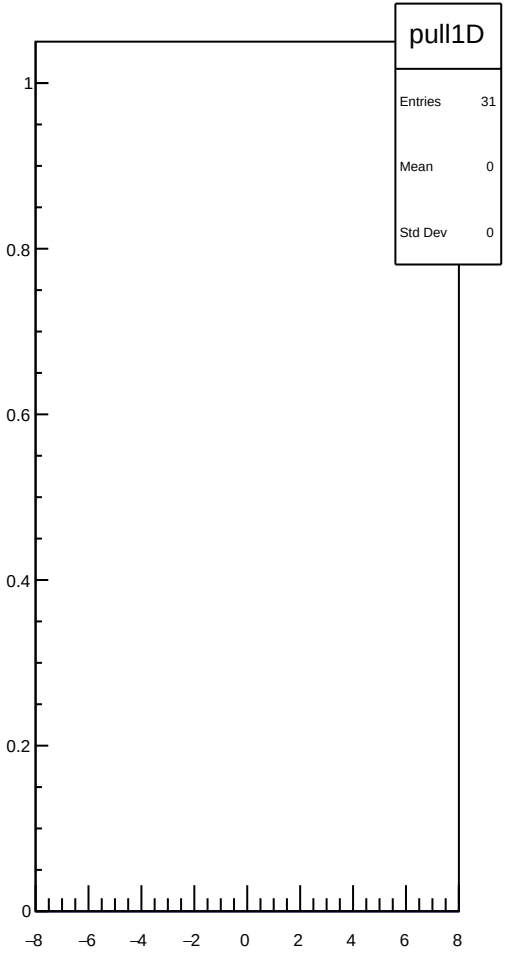

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

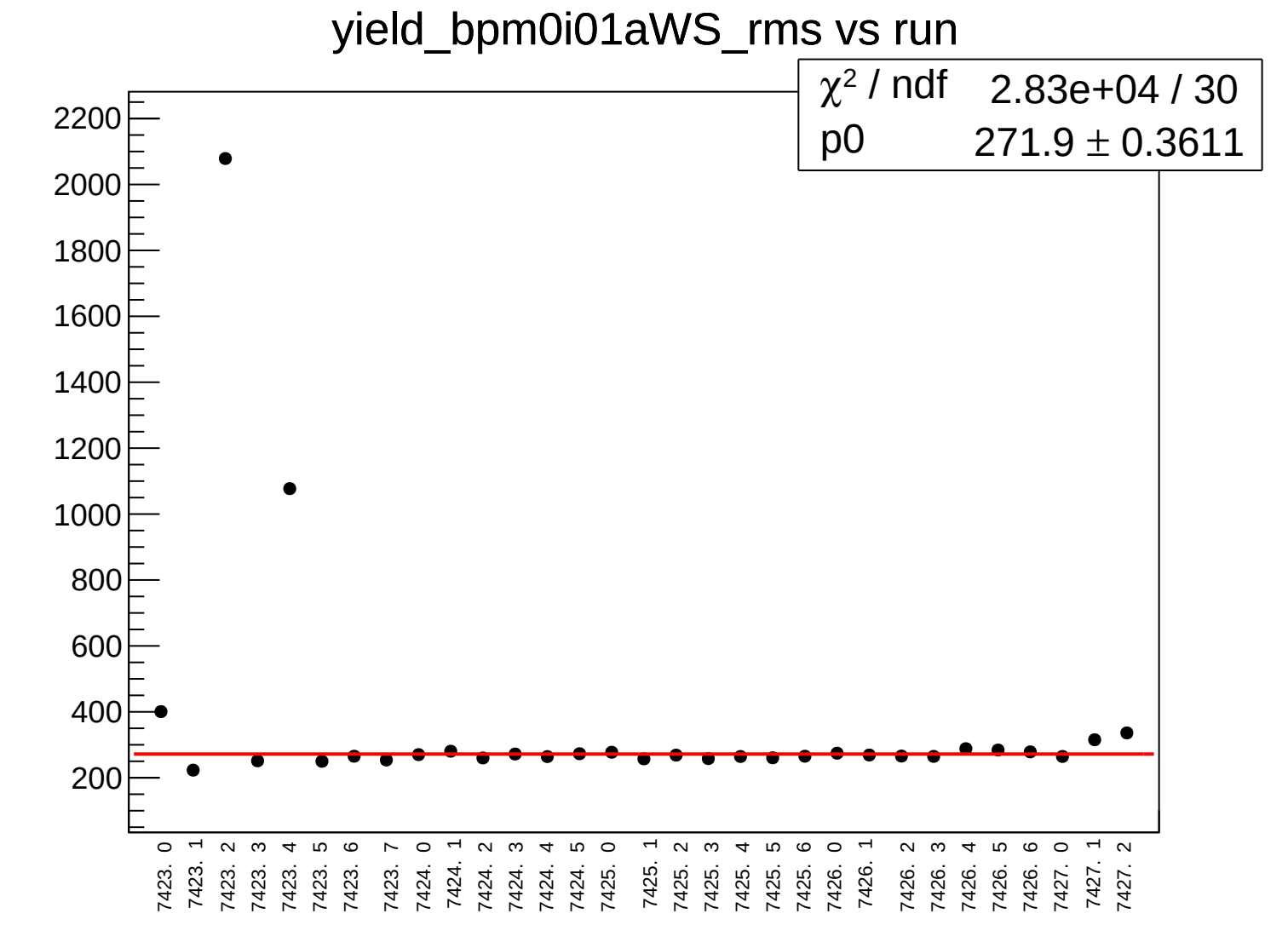

yield_bpm0i07WS_rms vs run
χ² / ndf 3.287e+04 / 30
p0 277.2 ± 0.3696
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

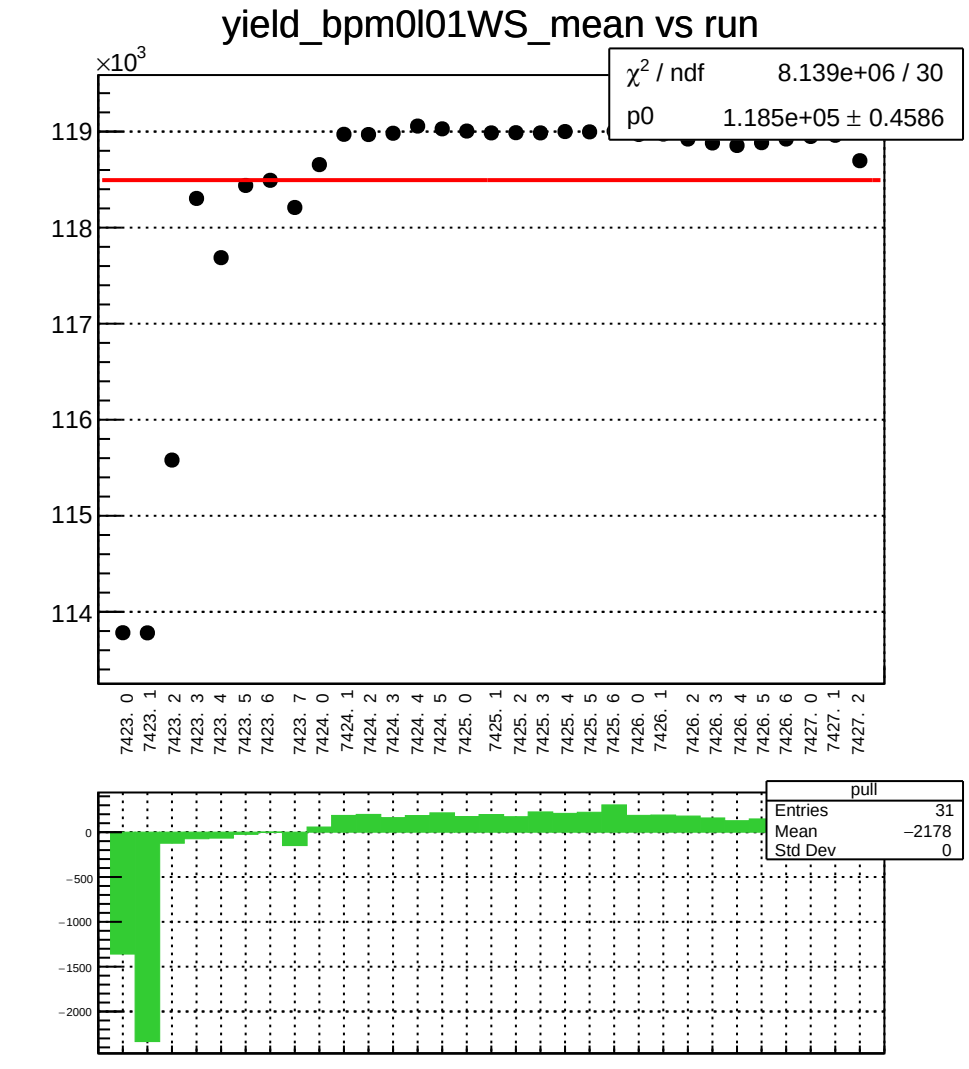

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 4.219e+06 / 30
p0 1.622e+05 ± 0.565
162
161
160
159
158
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −253.6
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

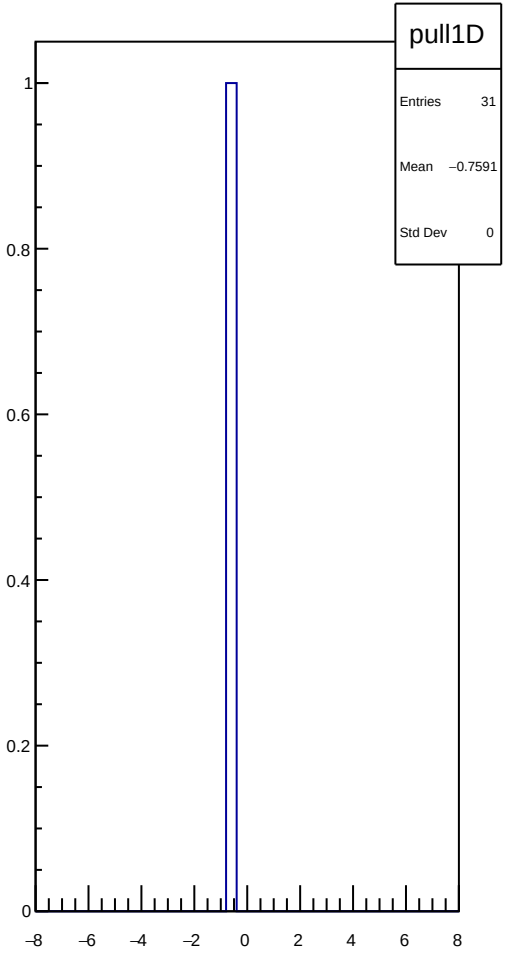

yield_bpm0i01WS_rms vs run
χ² / ndf 2.86e+04 / 30
p0 300.8 ± 0.3995
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

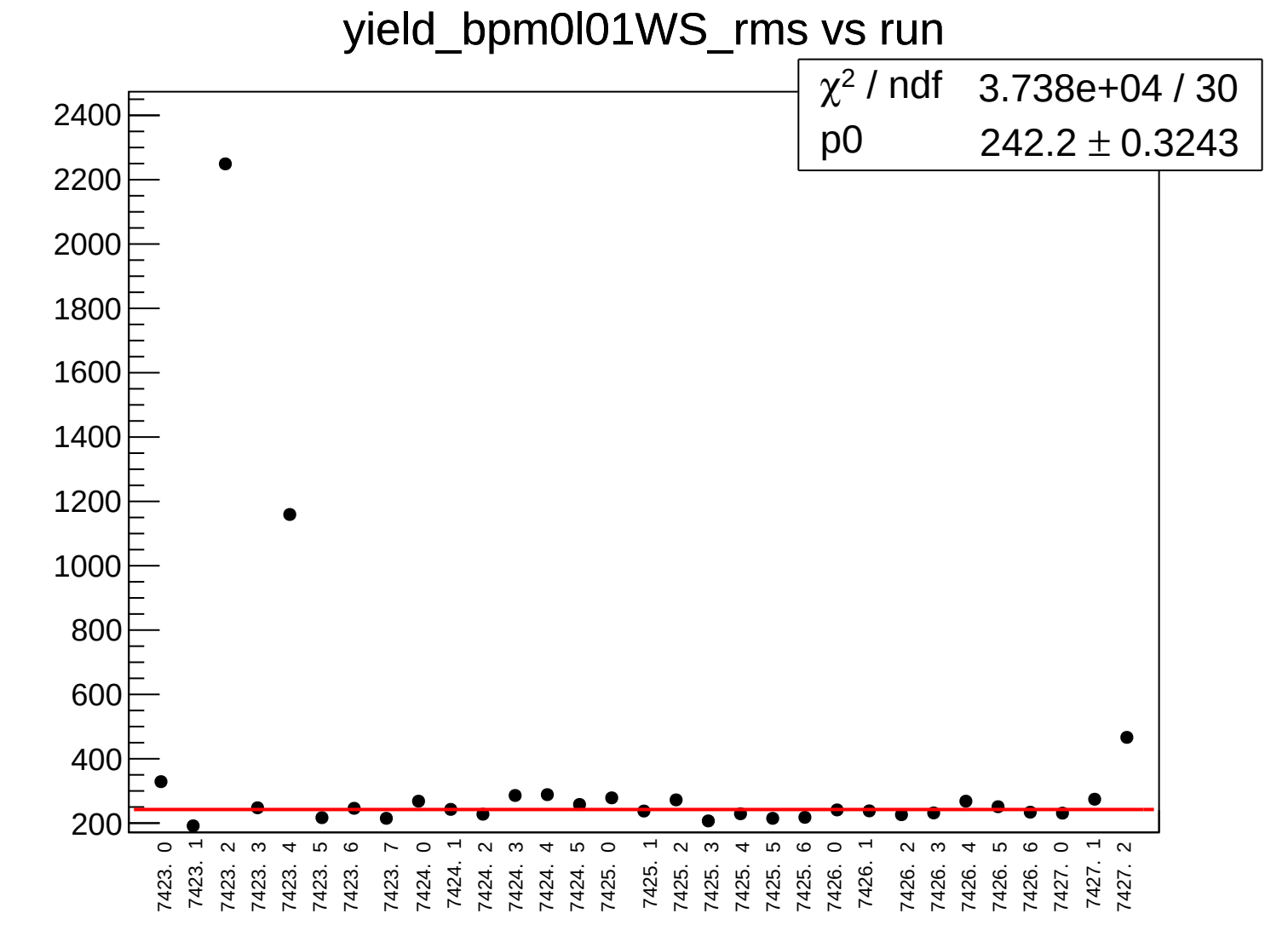

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 4.19e+06 / 30
p0 1.485e+05 ± 0.5107
149
148
147
146
145
144
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −263.9
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

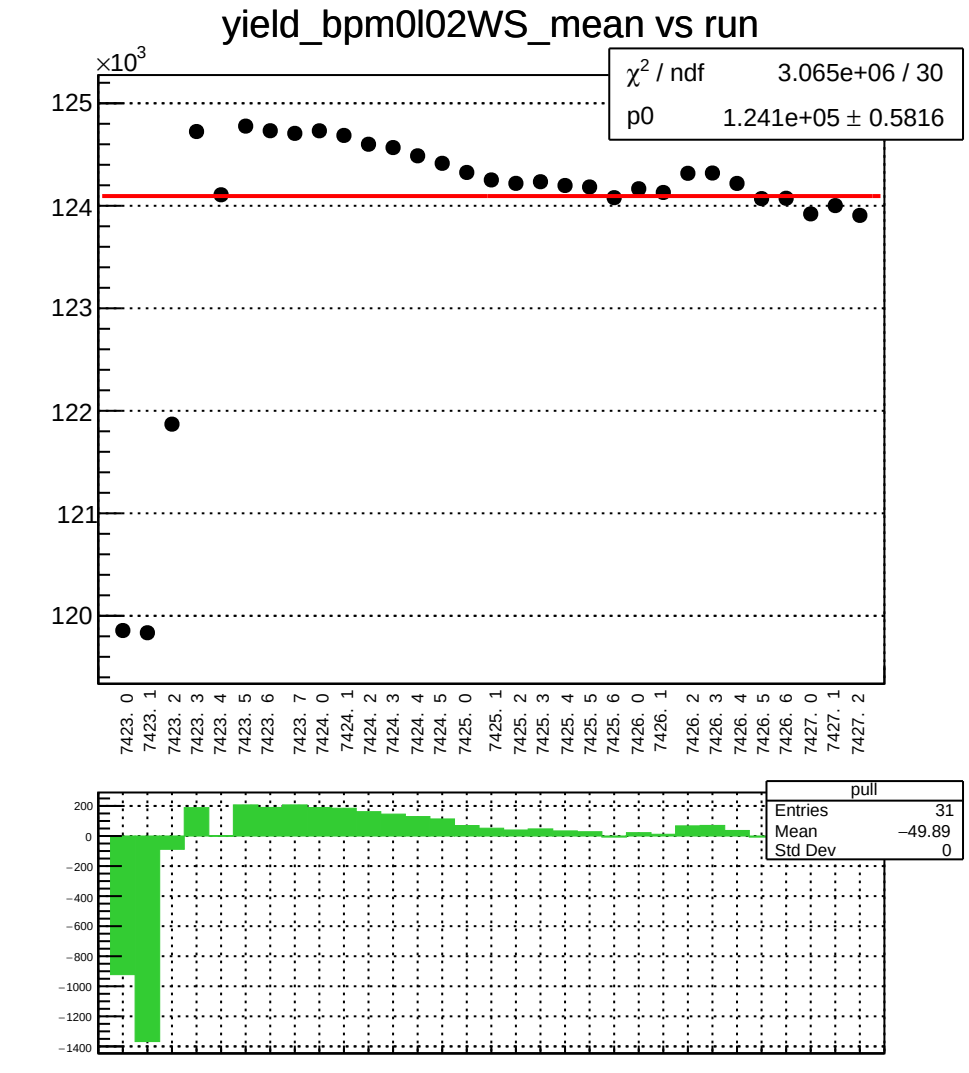

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

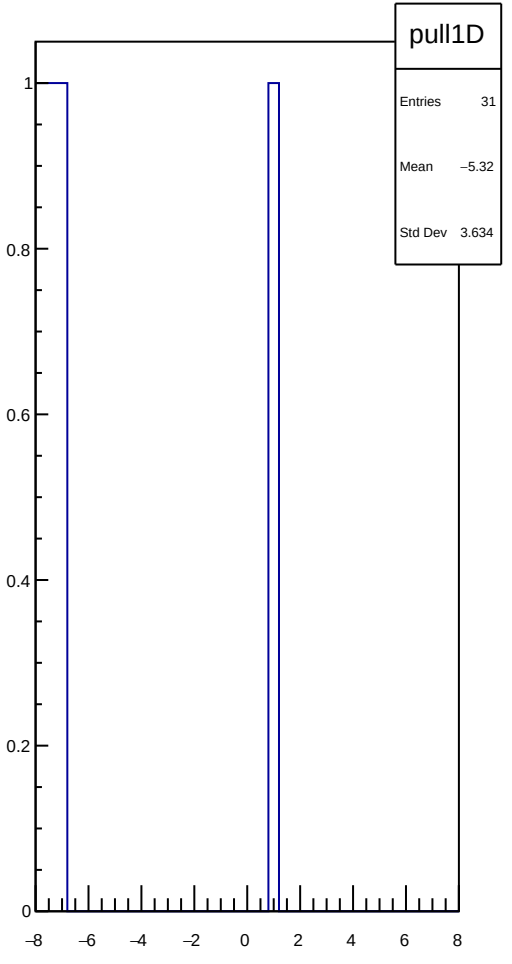

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.83e+04 / 30
p0 271.9 ± 0.3611
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

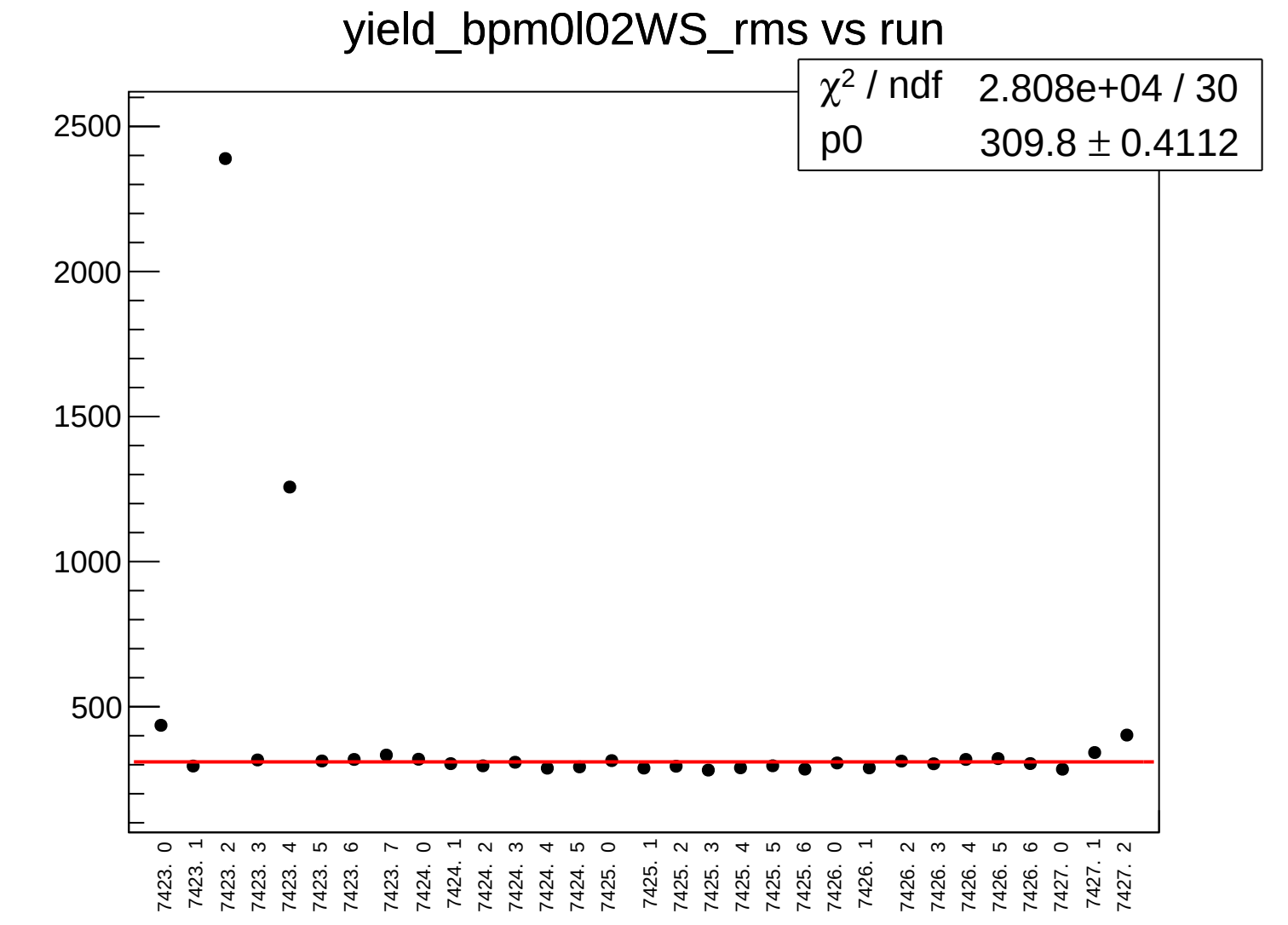

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 8.139e+06 / 30
p0 1.185e+05 ± 0.4586
119
118
117
116
115
114
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −2178
Std Dev 0
0
−500
−1000
−1500
−2000

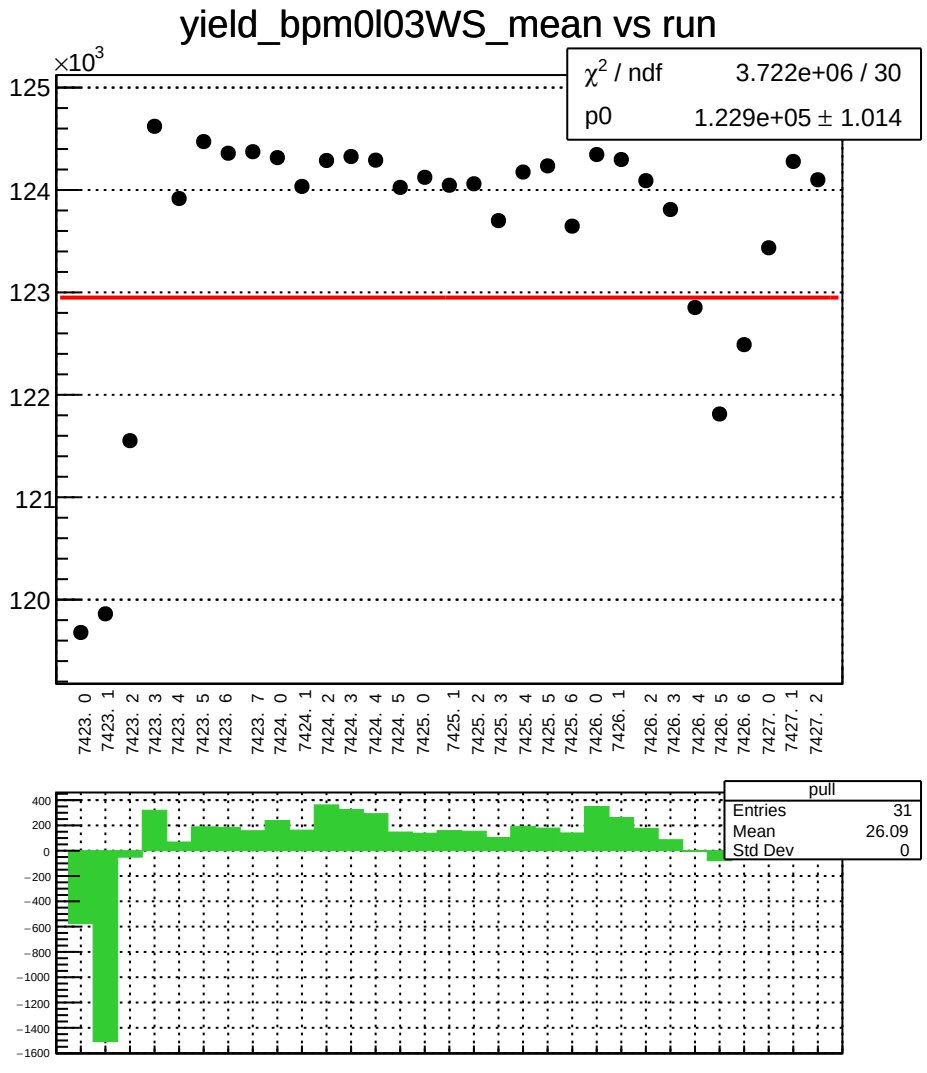

pull1D
Entries 31
Mean −0.7591
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

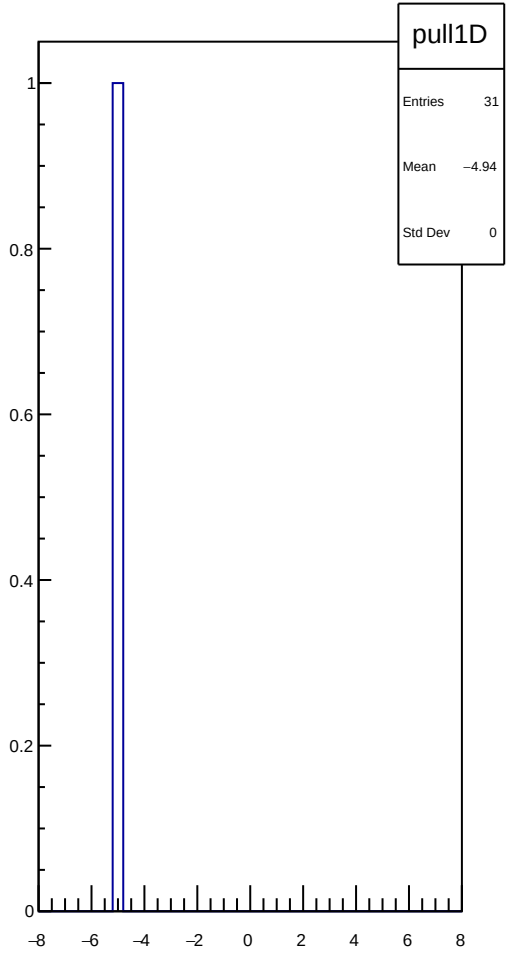

yield_bpm0l01WS_rms vs run
χ² / ndf 3.738e+04 / 30
p0 242.2 ± 0.3243
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

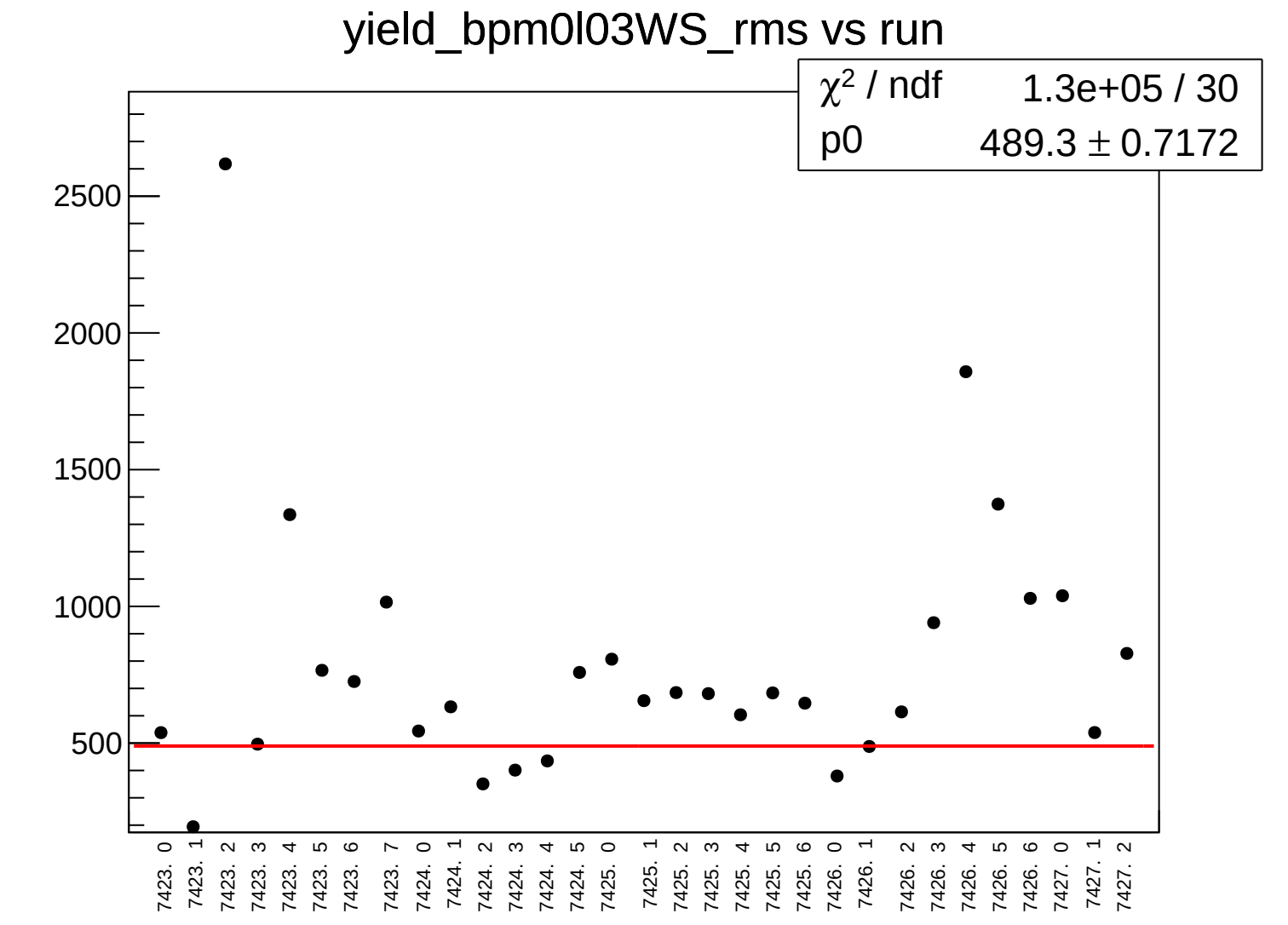

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 3.065e+06 / 30
p0 1.241e+05 ± 0.5816
125
124
123
122
121
120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −49.89
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400

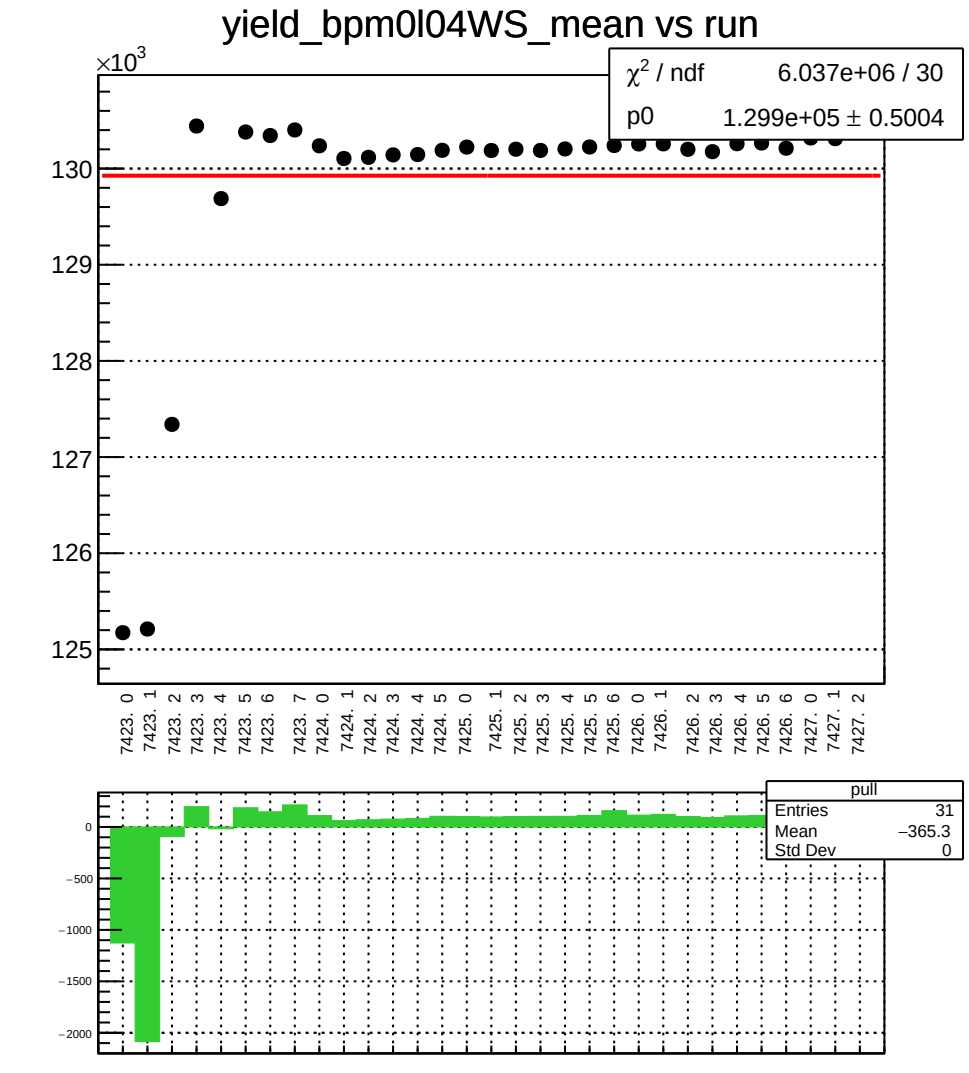

pull1D
Entries 31
Mean −5.32
Std Dev 3.634
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

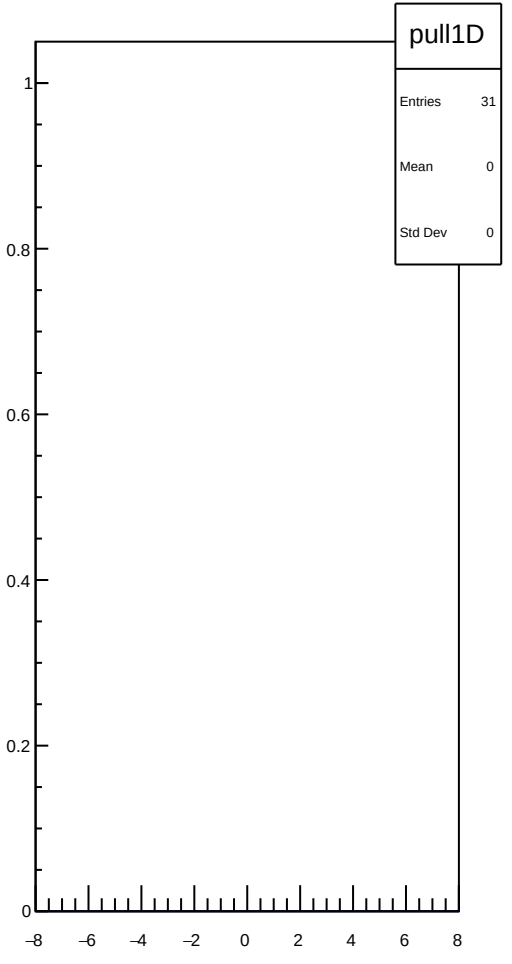

yield_bpm0l02WS_rms vs run
χ² / ndf 2.808e+04 / 30
p0 309.8 ± 0.4112
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

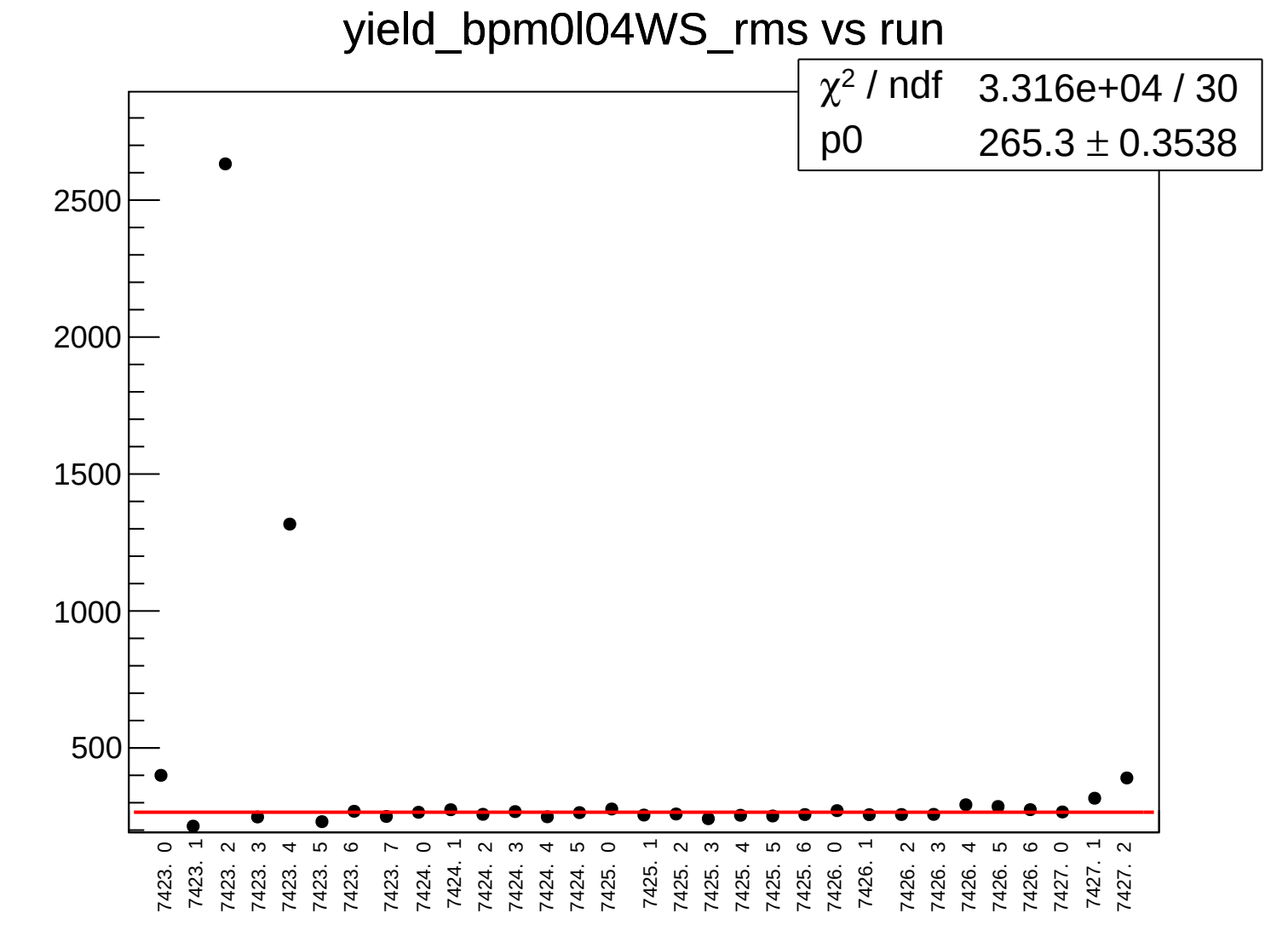

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3.722e+06 / 30
p0 1.229e+05 ± 1.014
125
124
123
122
121
120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 26.09
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

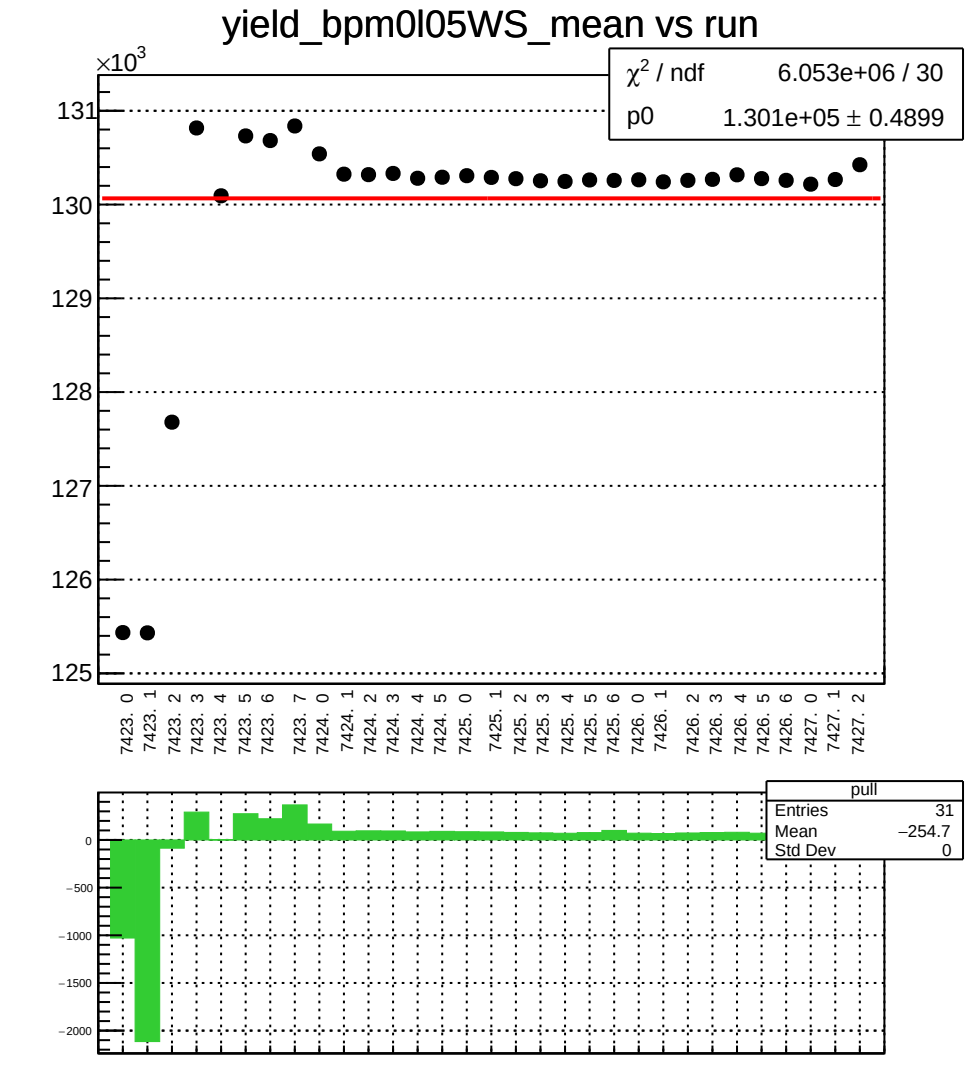

pull1D
Entries 31
Mean −4.94
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

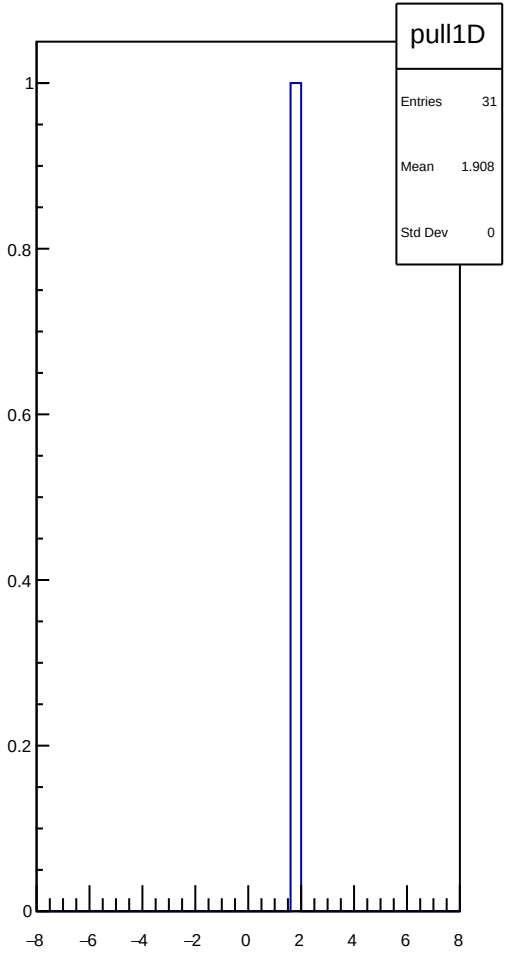

yield_bpm0l03WS_rms vs run
χ² / ndf 1.3e+05 / 30
p0 489.3 ± 0.7172
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

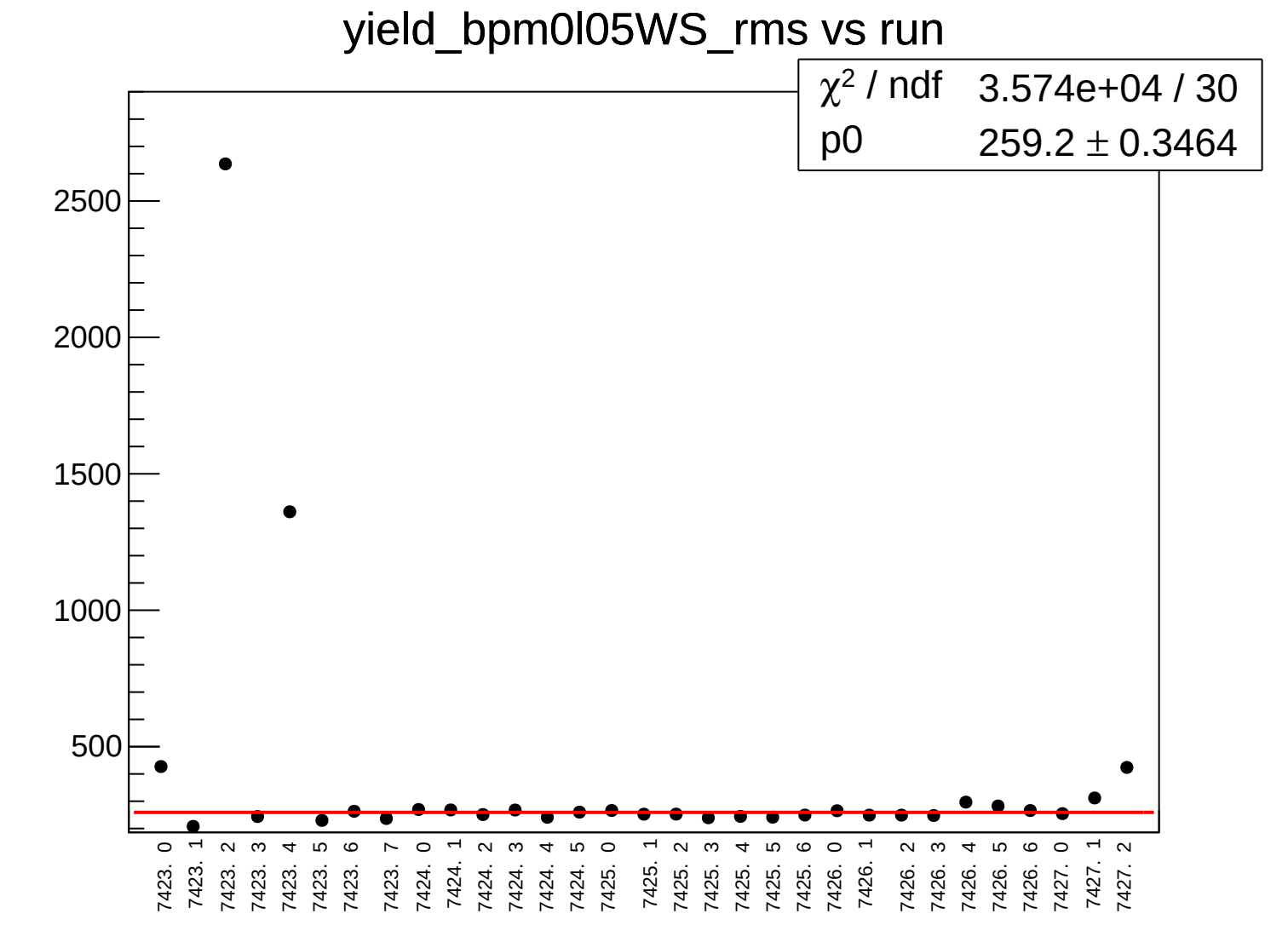

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 6.037e+06 / 30
p0 1.299e+05 ± 0.5004
130
129
128
127
126
125
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −365.3
Std Dev 0
0
−500
−1000
−1500
−2000

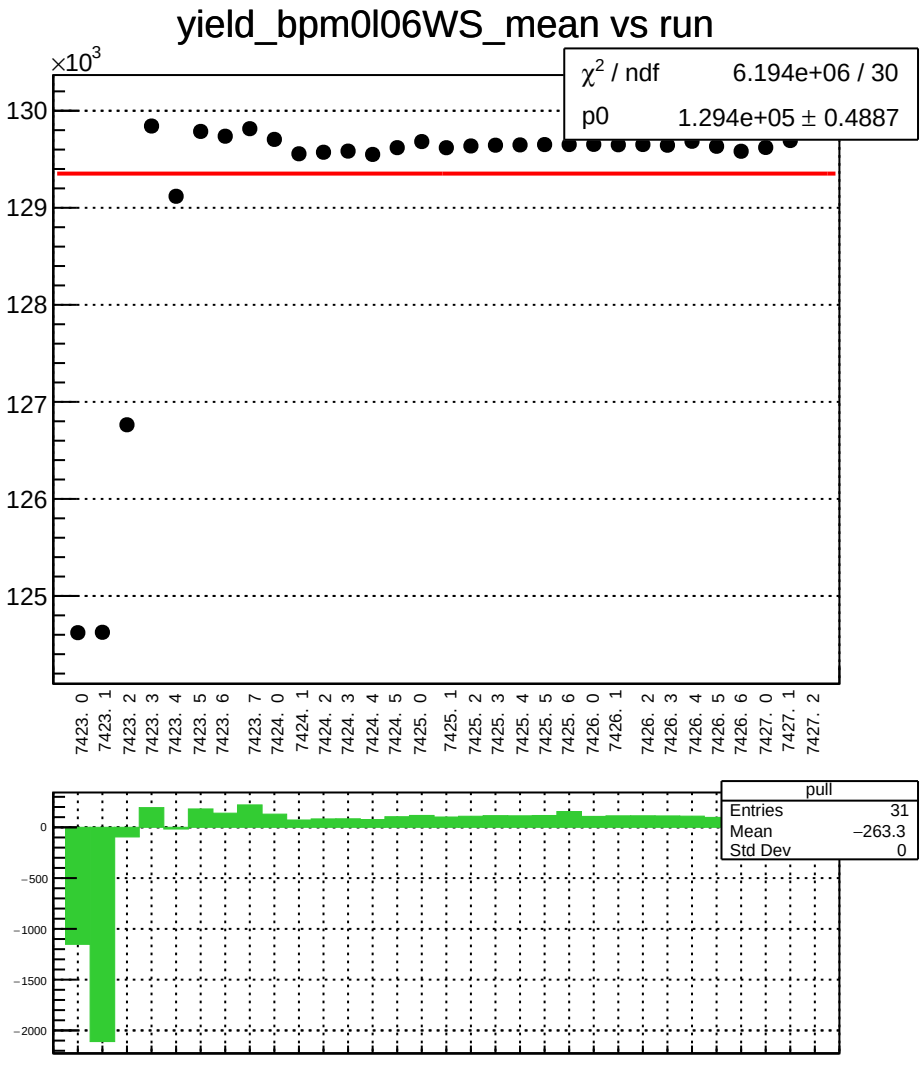

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

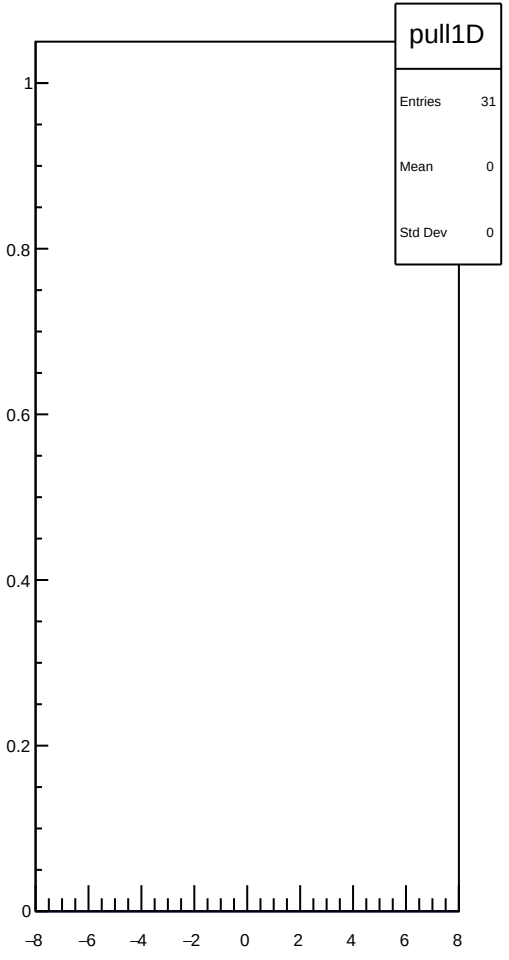

yield_bpm0l04WS_rms vs run
χ² / ndf 3.316e+04 / 30
p0 265.3 ± 0.3538
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

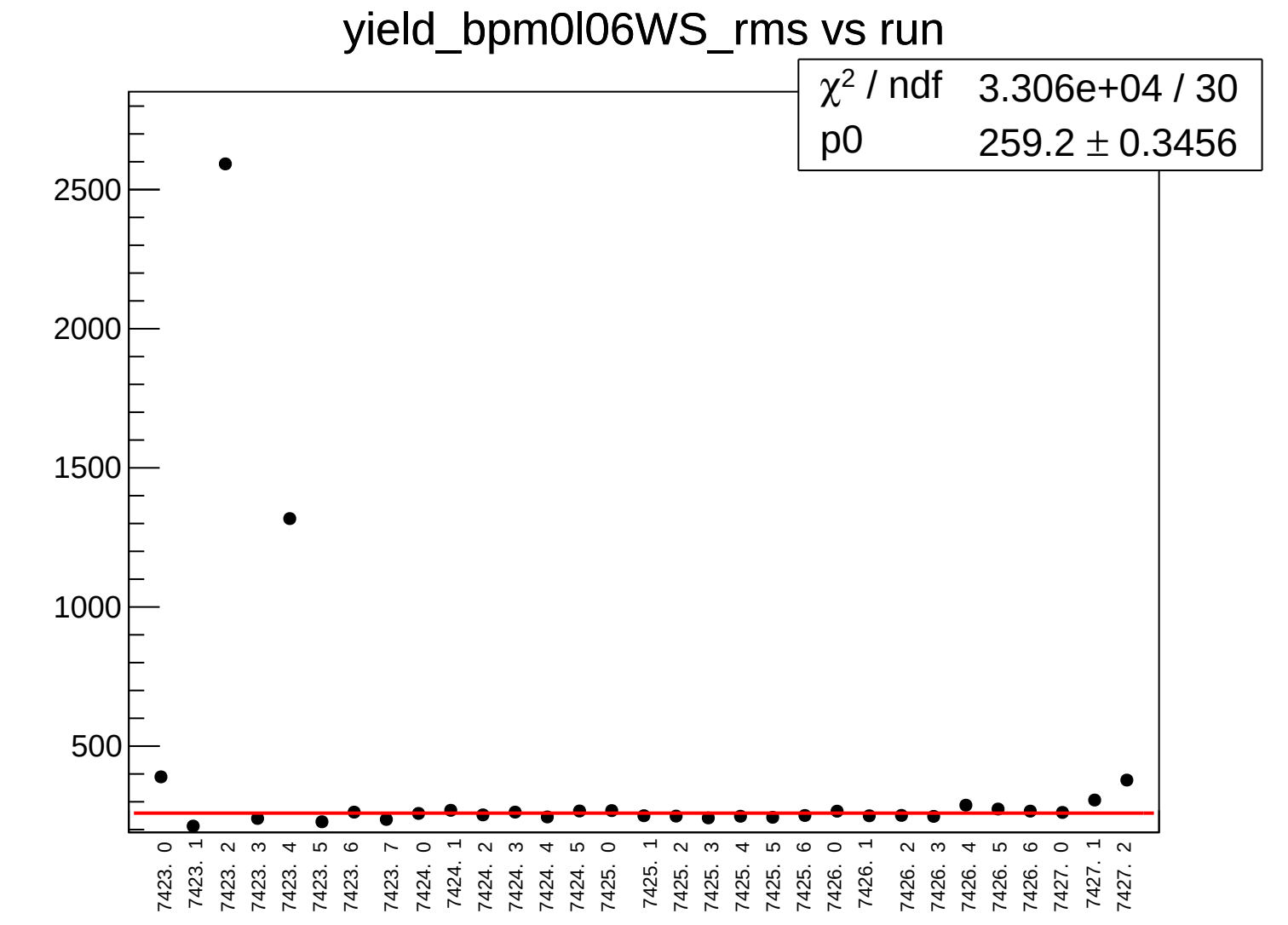

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 6.053e+06 / 30
p0 1.301e+05 ± 0.4899
131
130
129
128
127
126
125
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −254.7
Std Dev 0
0
−500
−1000
−1500
−2000

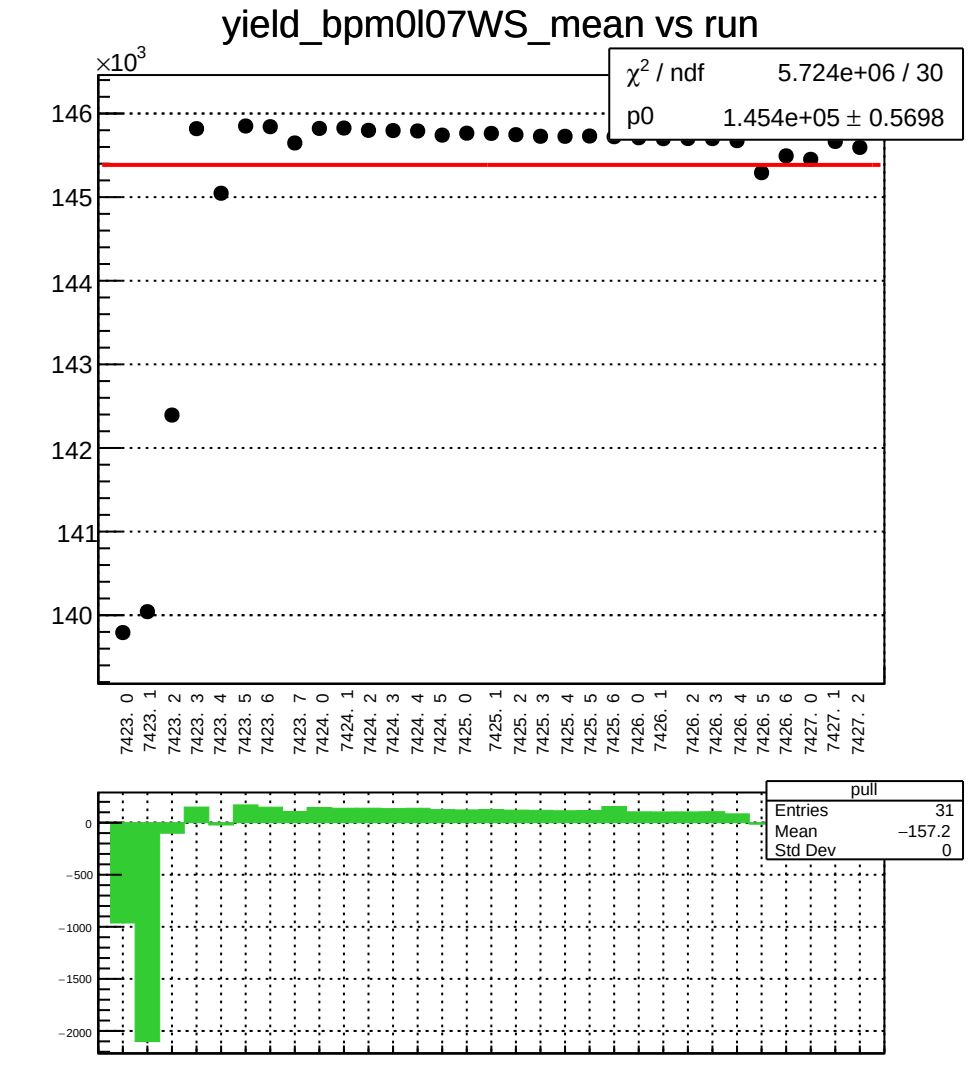

pull1D
Entries 31
Mean 1.908
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

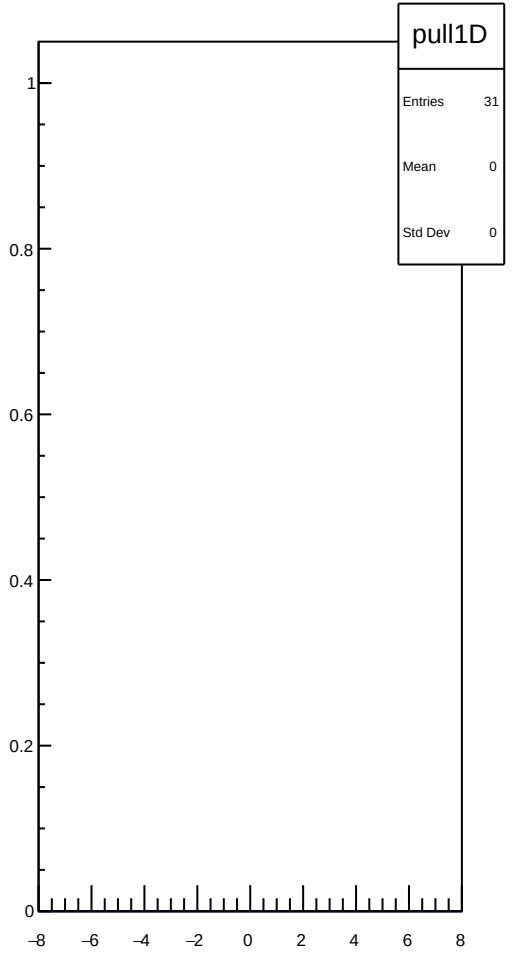

yield_bpm0l05WS_rms vs run
χ² / ndf 3.574e+04 / 30
p0 259.2 ± 0.3464
2500
2000
1500
1000
500
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

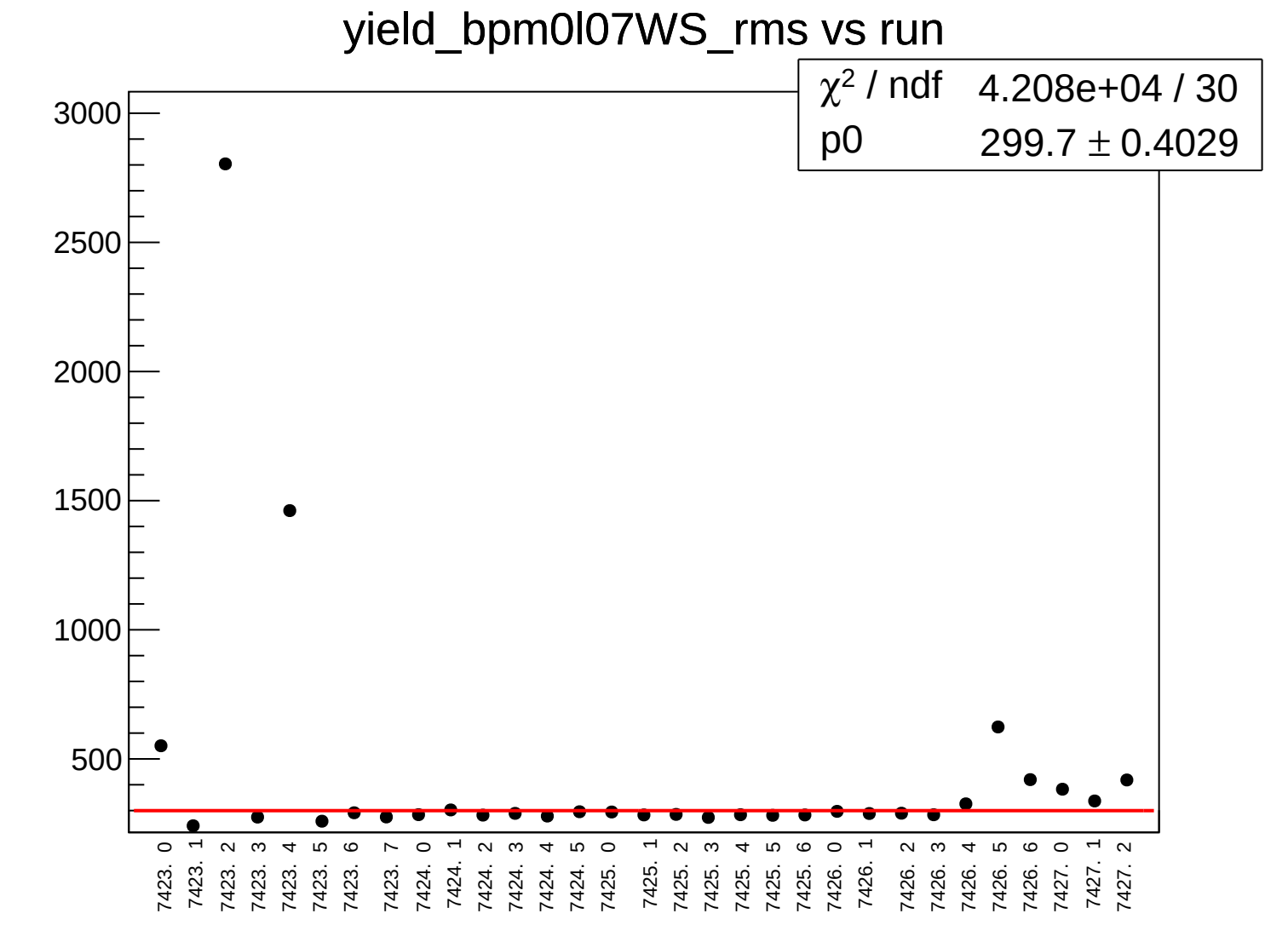

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 6.194e+06 / 30
p0 1.294e+05 ± 0.4887
130
129
128
127
126
125
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −263.3
Std Dev 0
0
−500
−1000
−1500
−2000

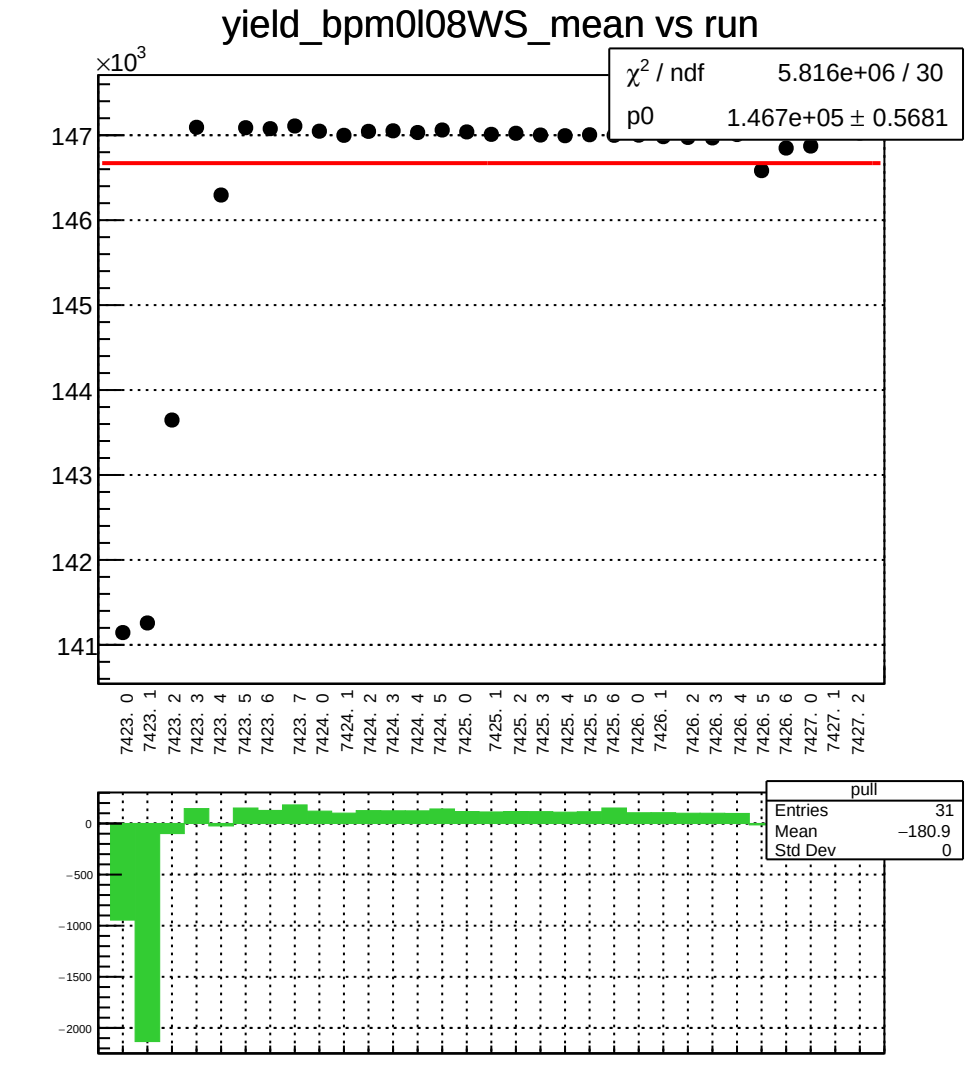

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

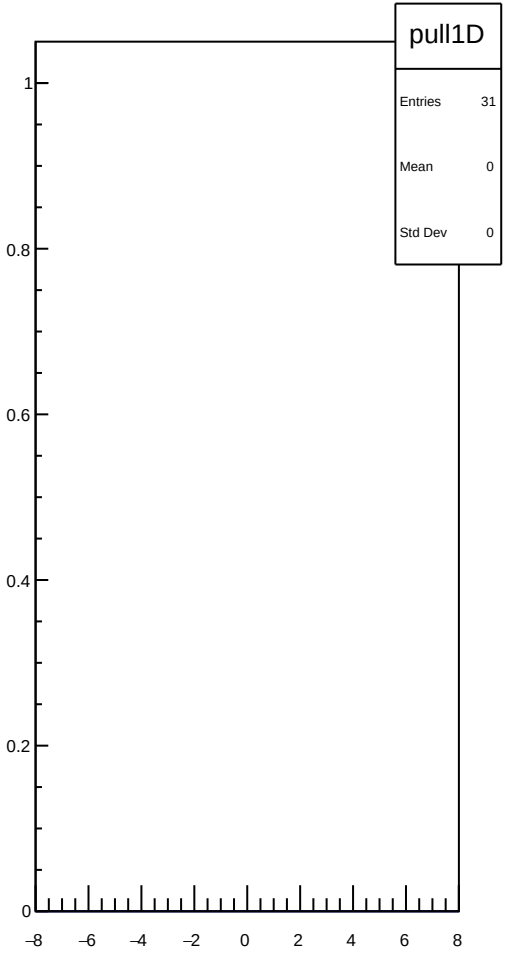

yield_bpm0l06WS_rms vs run
χ² / ndf 3.306e+04 / 30
p0 259.2 ± 0.3456
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

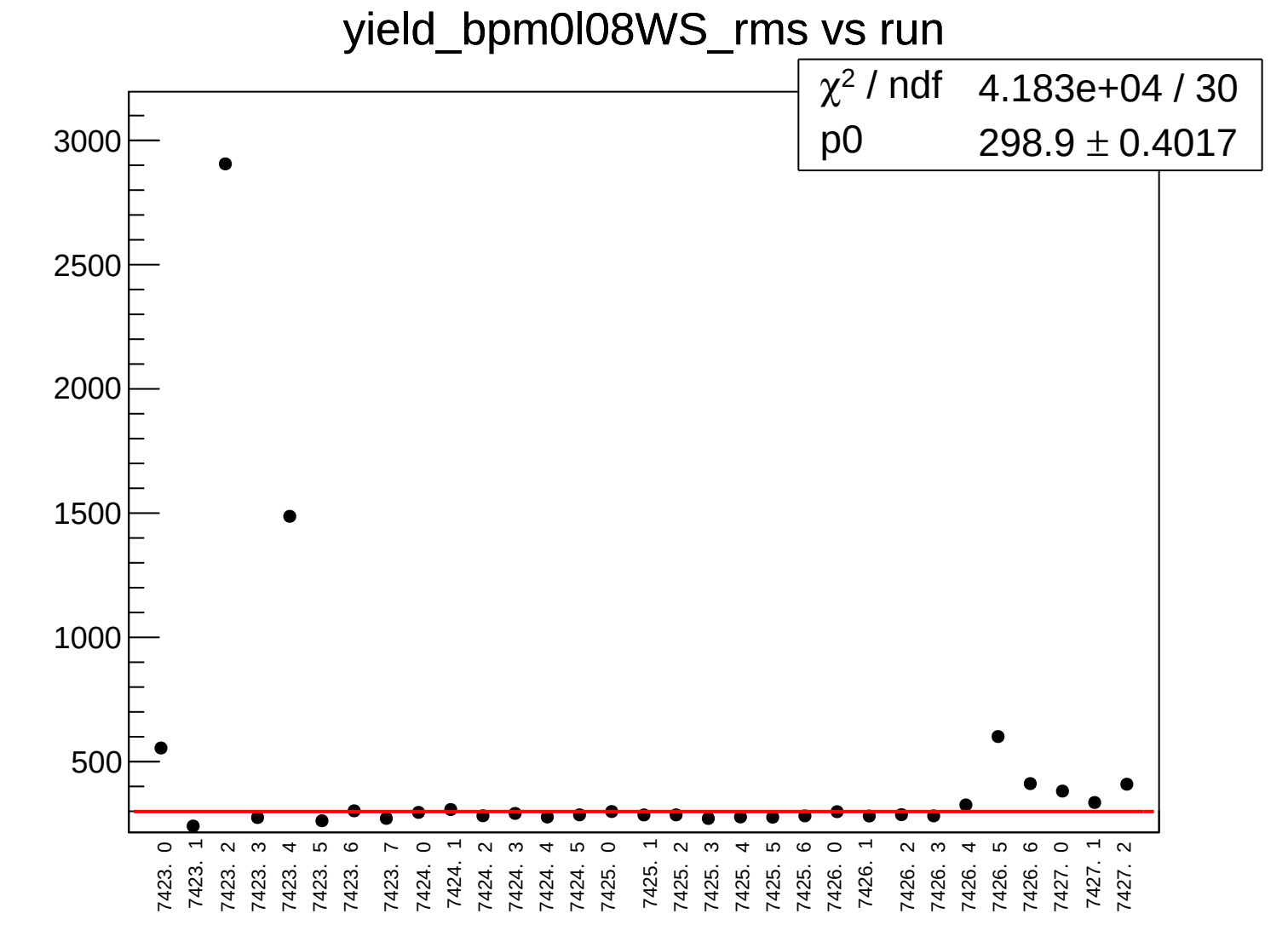

yield_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 5.724e+06 / 30
p0 1.454e+05 ± 0.5698
146
145
144
143
142
141
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −157.2
Std Dev 0
0
−500
−1000
−1500
−2000

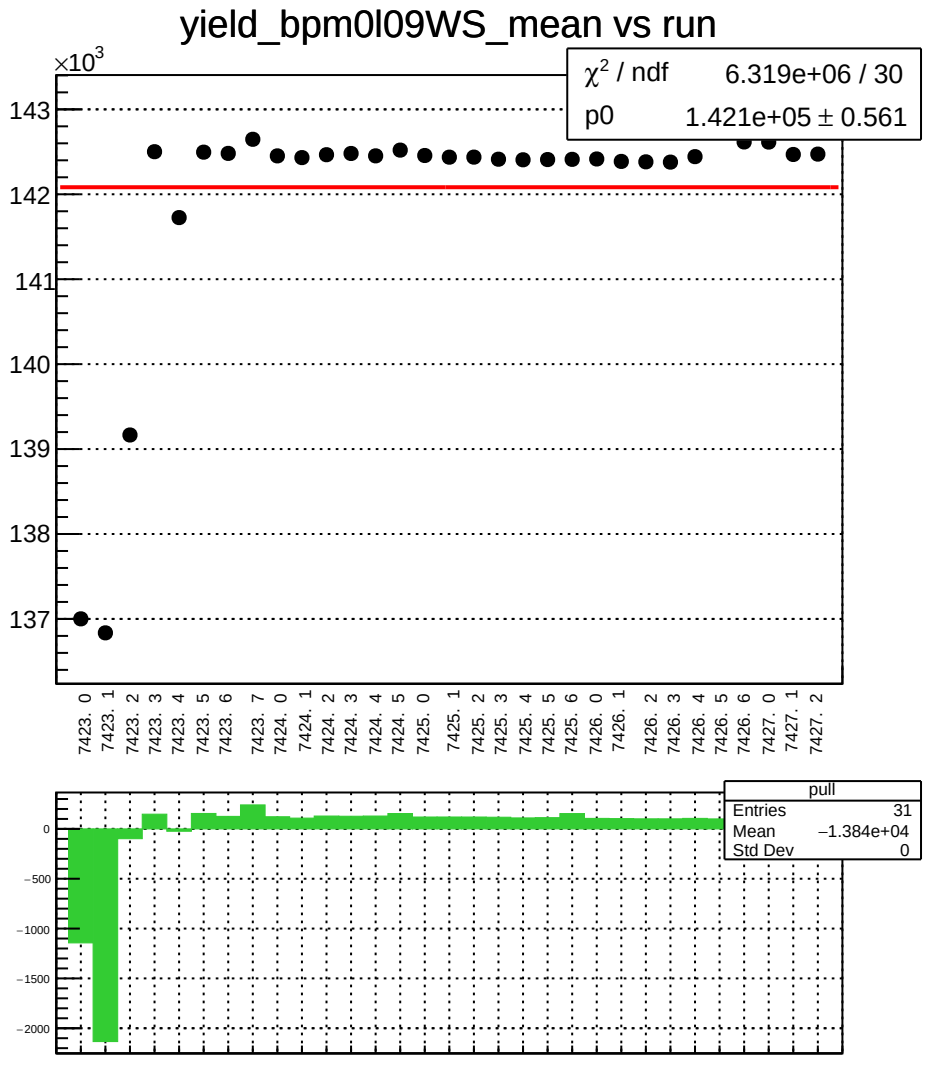

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

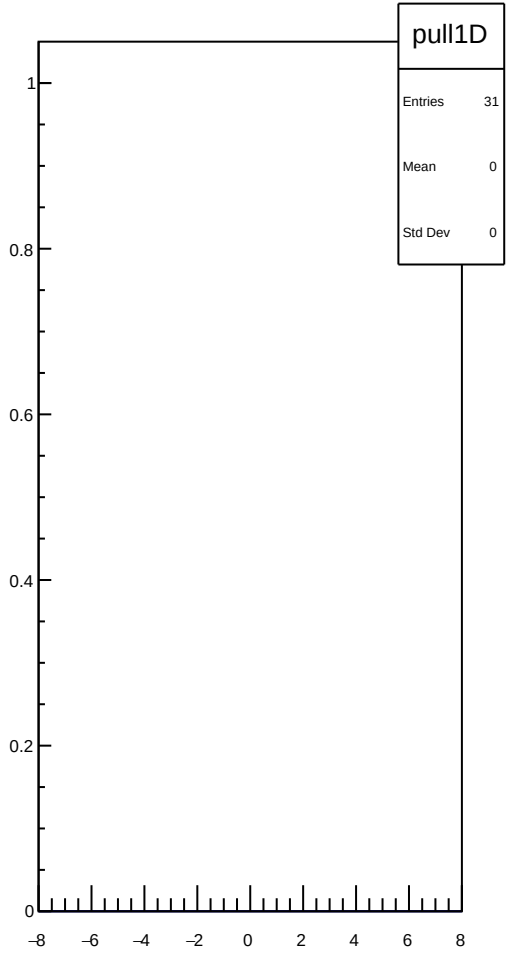

yield_bpm0l07WS_rms vs run
χ² / ndf 4.208e+04 / 30
p0 299.7 ± 0.4029
3000
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

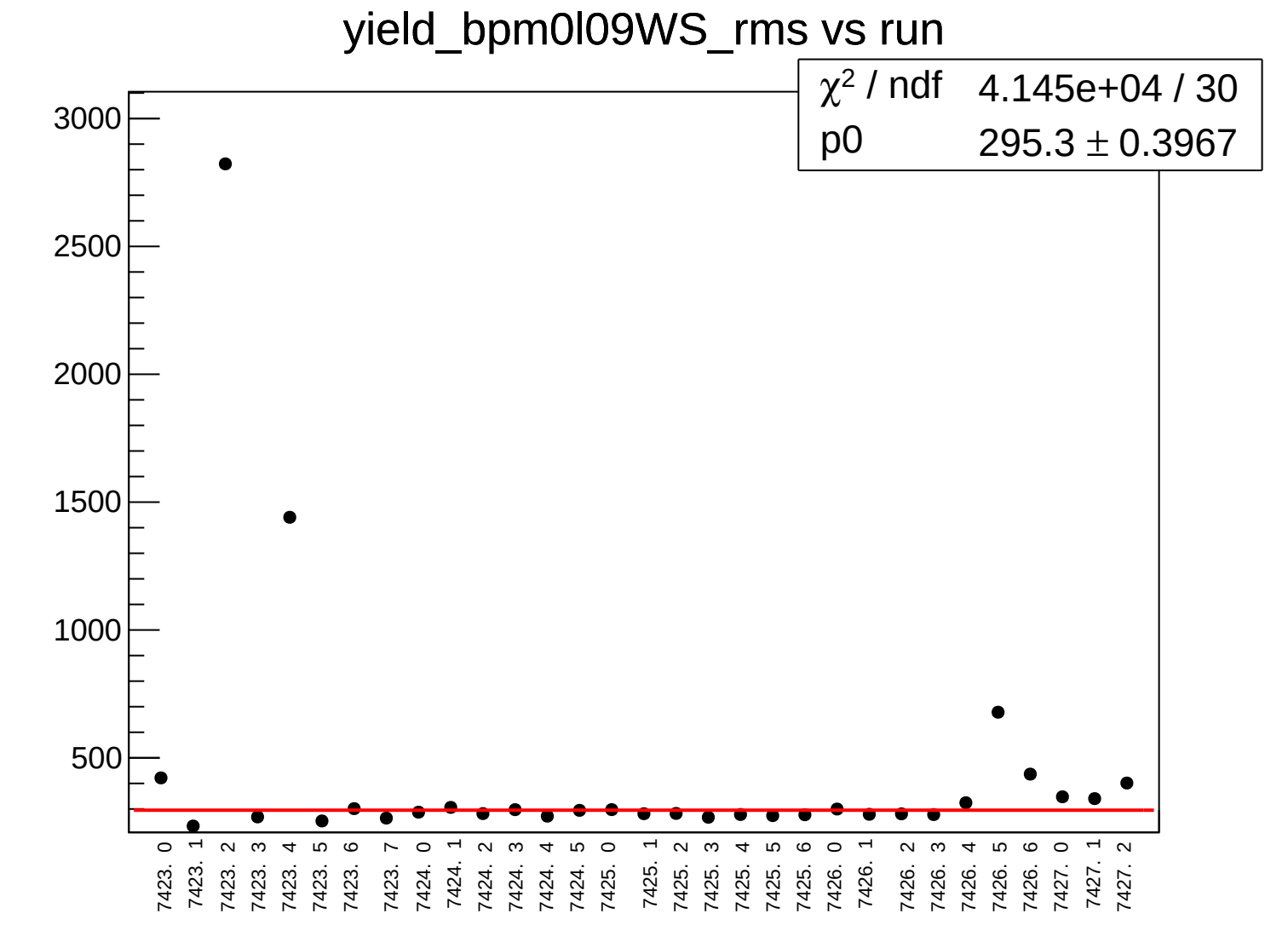

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 5.816e+06 / 30
p0 1.467e+05 ± 0.5681
147
146
145
144
143
142
141
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −180.9
Std Dev 0
0
−500
−1000
−1500
−2000

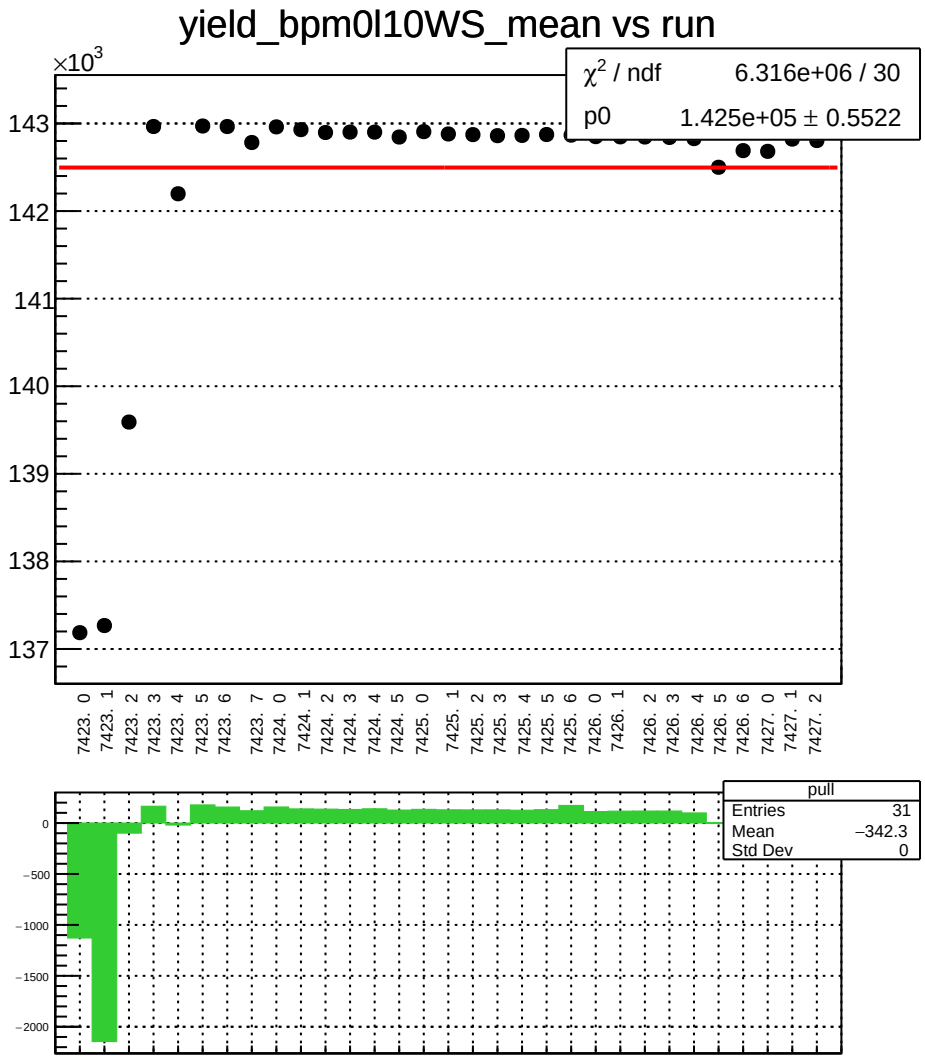

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

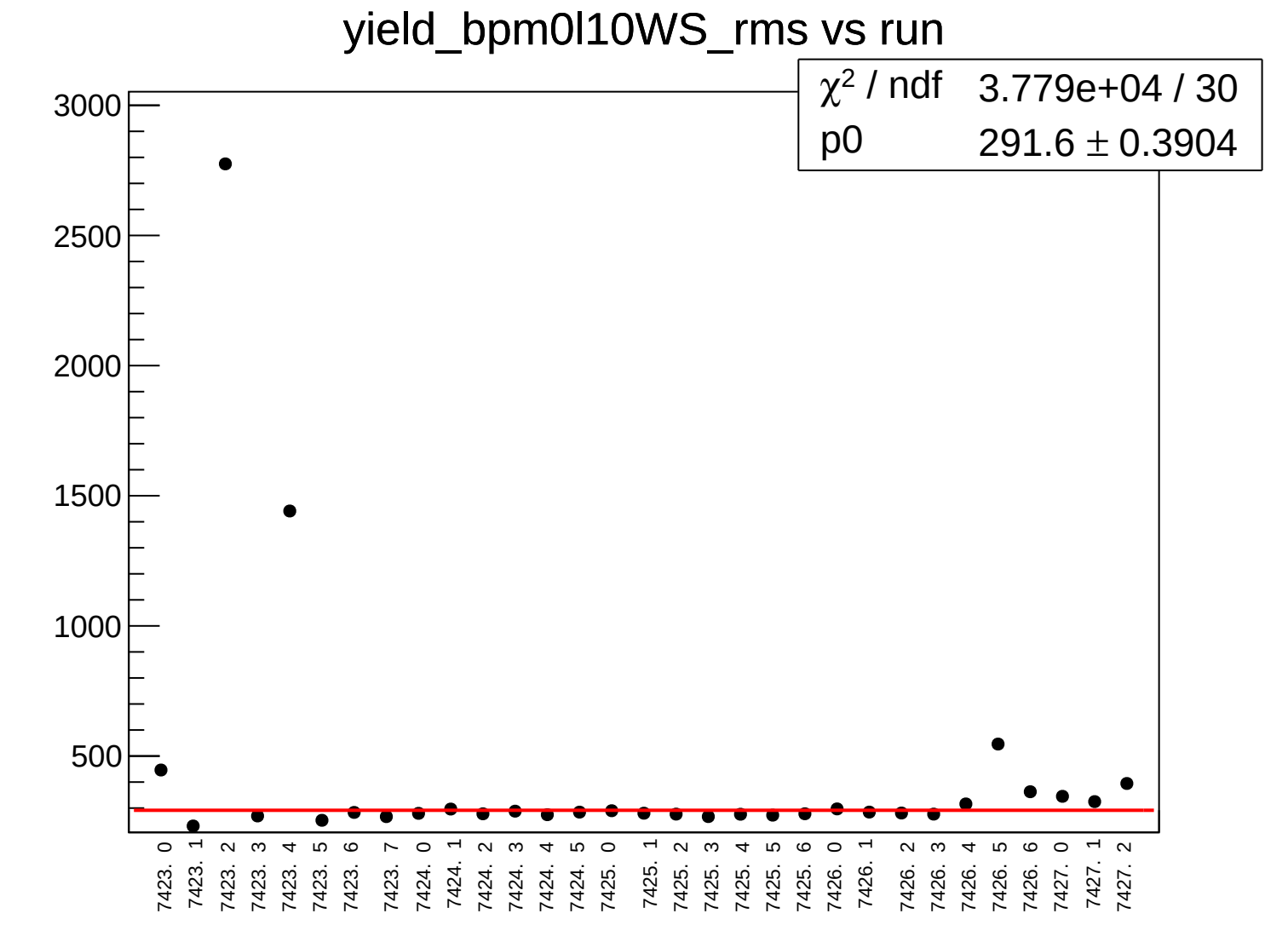

yield_bpm0l08WS_rms vs run
χ² / ndf 4.183e+04 / 30
p0 298.9 ± 0.4017
3000
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

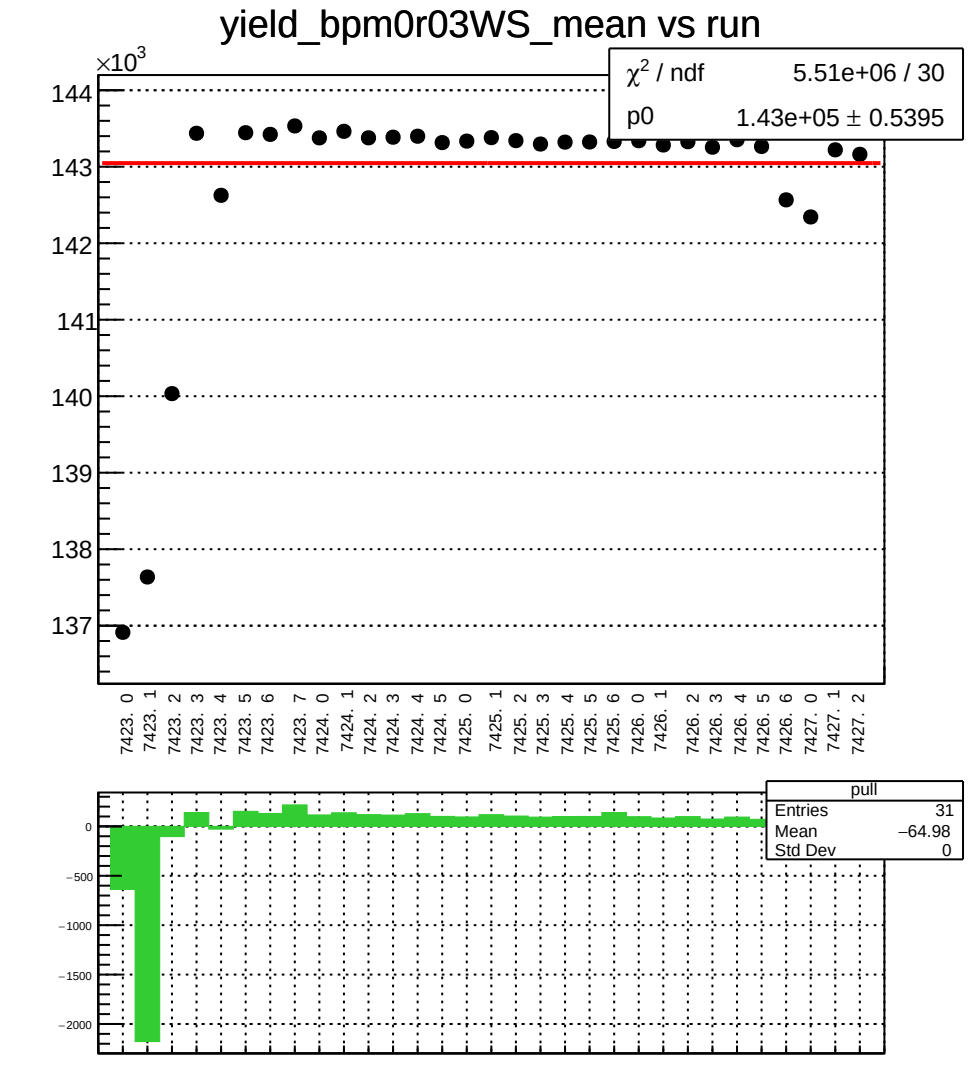

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 6.319e+06 / 30
p0 1.421e+05 ± 0.561
143
142
141
140
139
138
137
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1.384e+04
Std Dev 0
0
−500
−1000
−1500
−2000

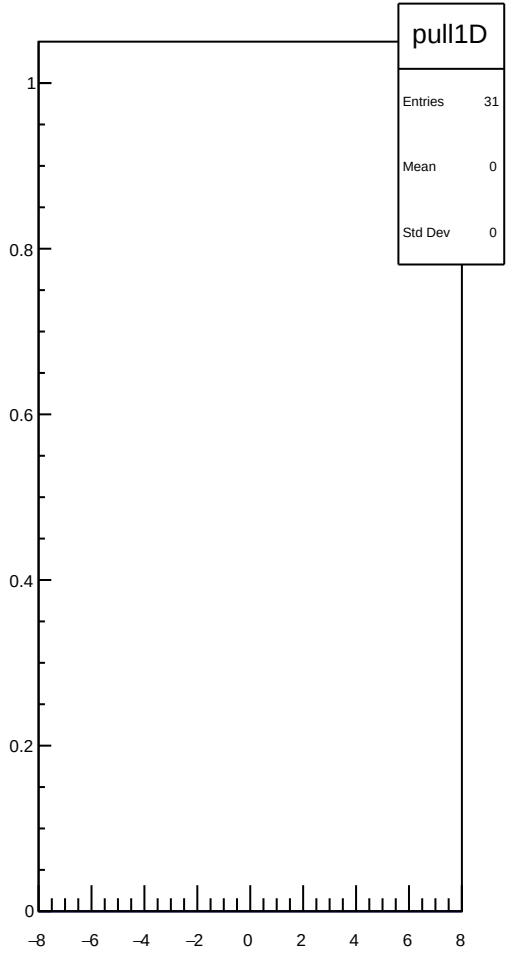

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

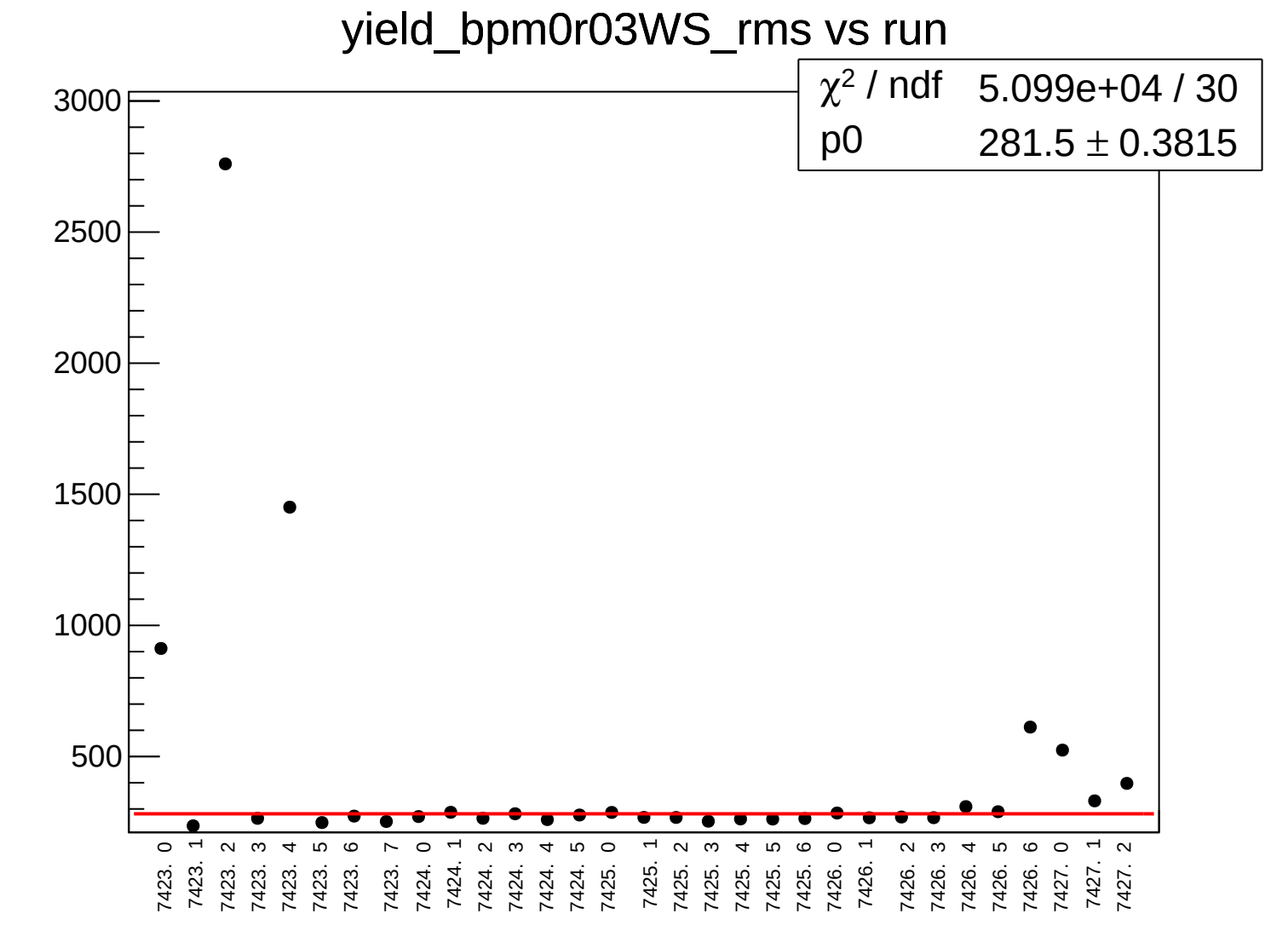

yield_bpm0l09WS_rms vs run
χ² / ndf 4.145e+04 / 30
p0 295.3 ± 0.3967
3000
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

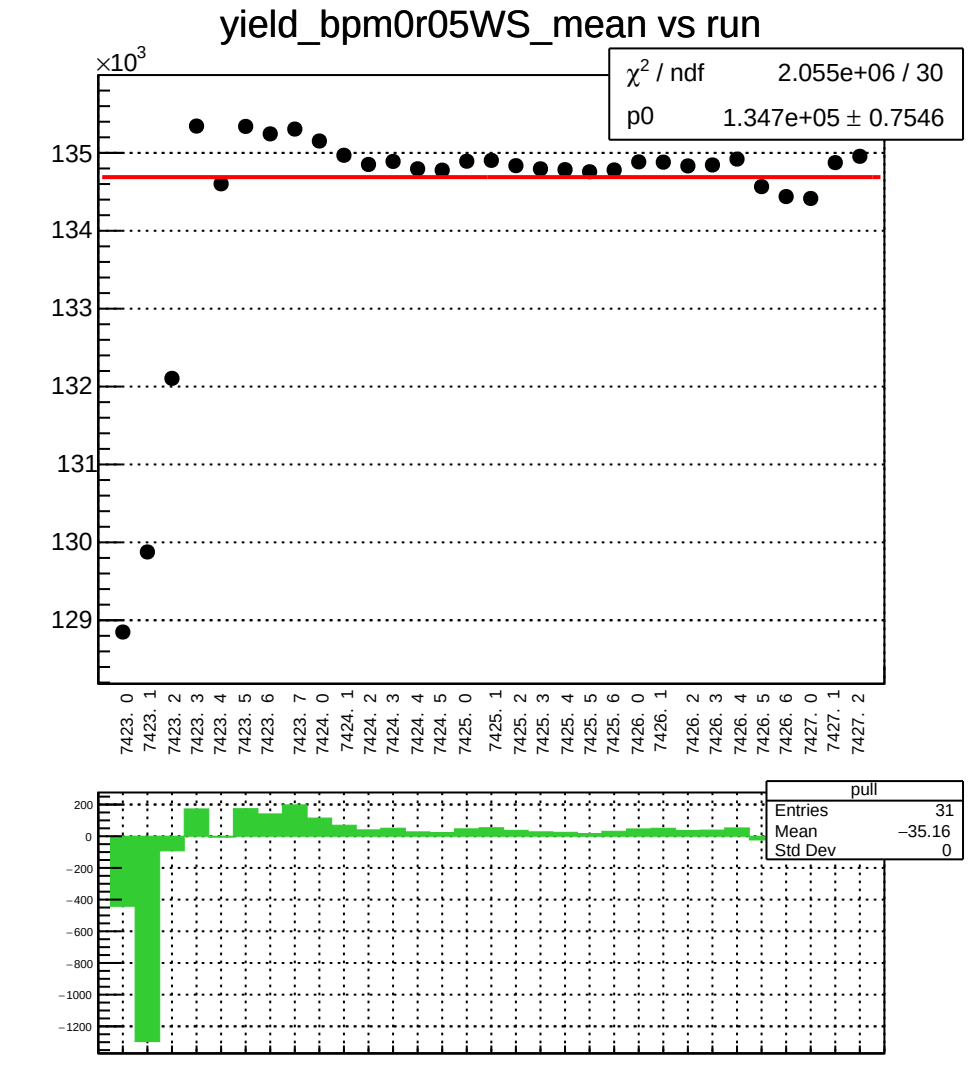

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 6.316e+06 / 30
p0 1.425e+05 ± 0.5522
143
142
141
140
139
138
137
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −342.3
Std Dev 0
0
−500
−1000
−1500
−2000
pull1D
Entries 31
Mean 0.5419
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

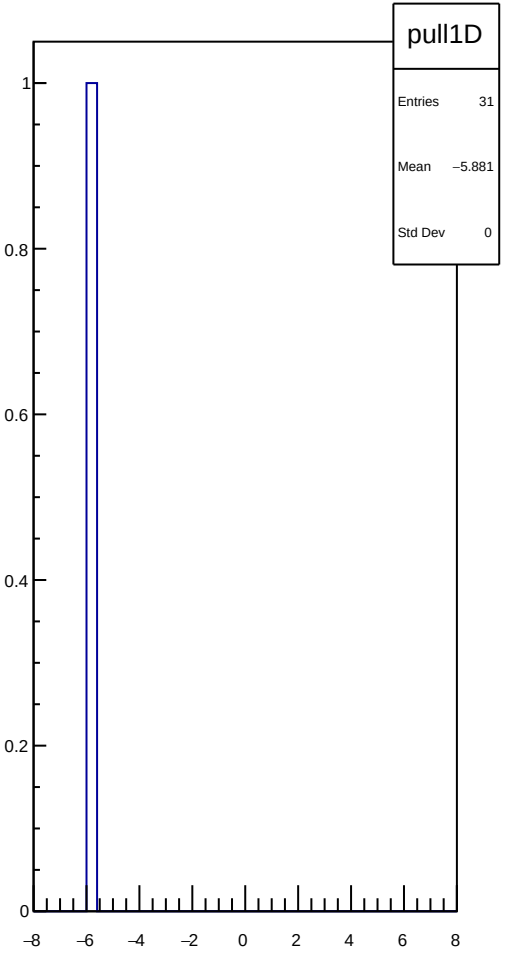

yield_bpm0l10WS_rms vs run
χ² / ndf 3.779e+04 / 30
p0 291.6 ± 0.3904
3000
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

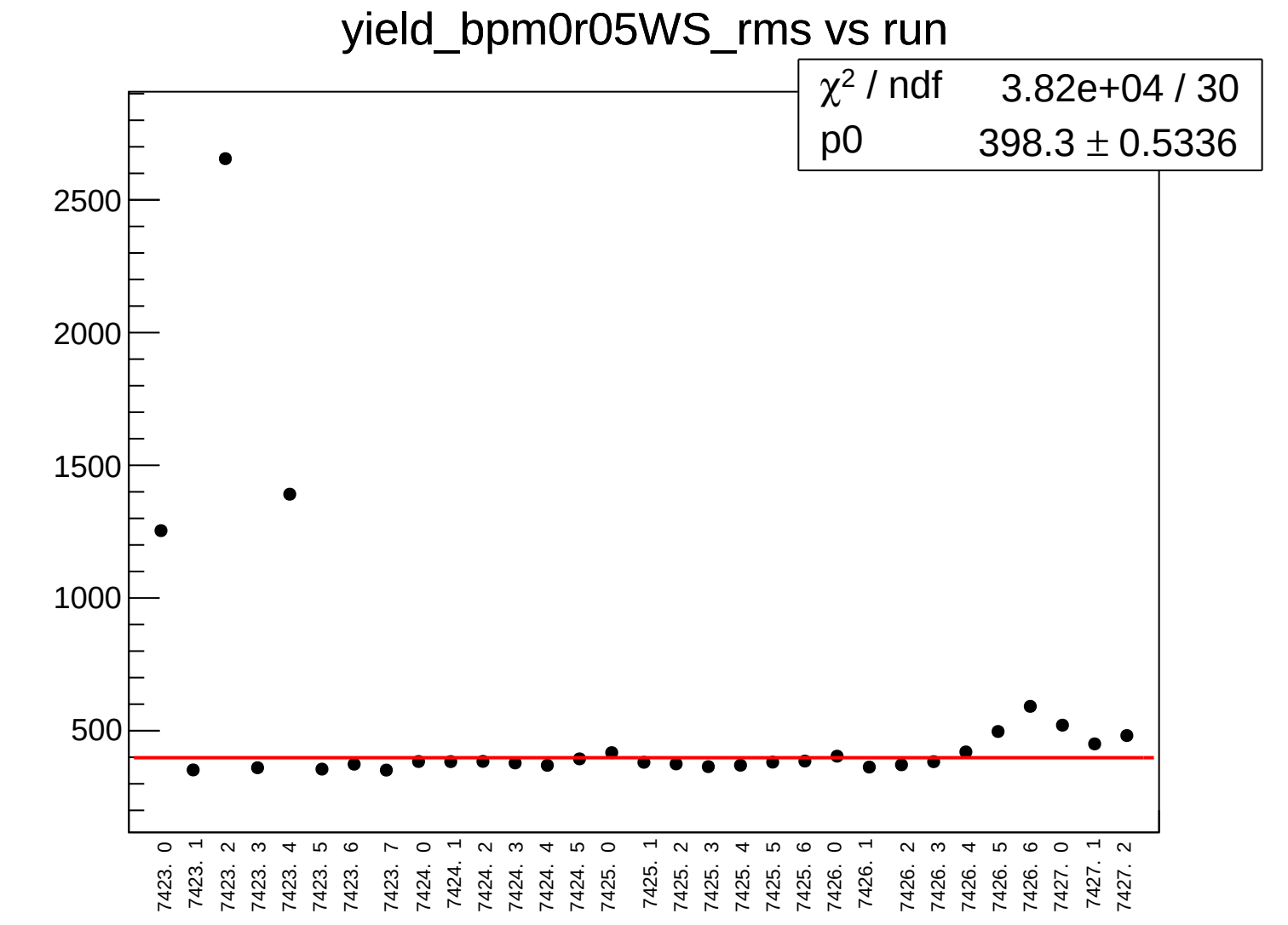

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 5.51e+06 / 30
p0 1.43e+05 ± 0.5395
144
143
142
141
140
139
138
137
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −64.98
Std Dev 0
0
−500
−1000
−1500
−2000

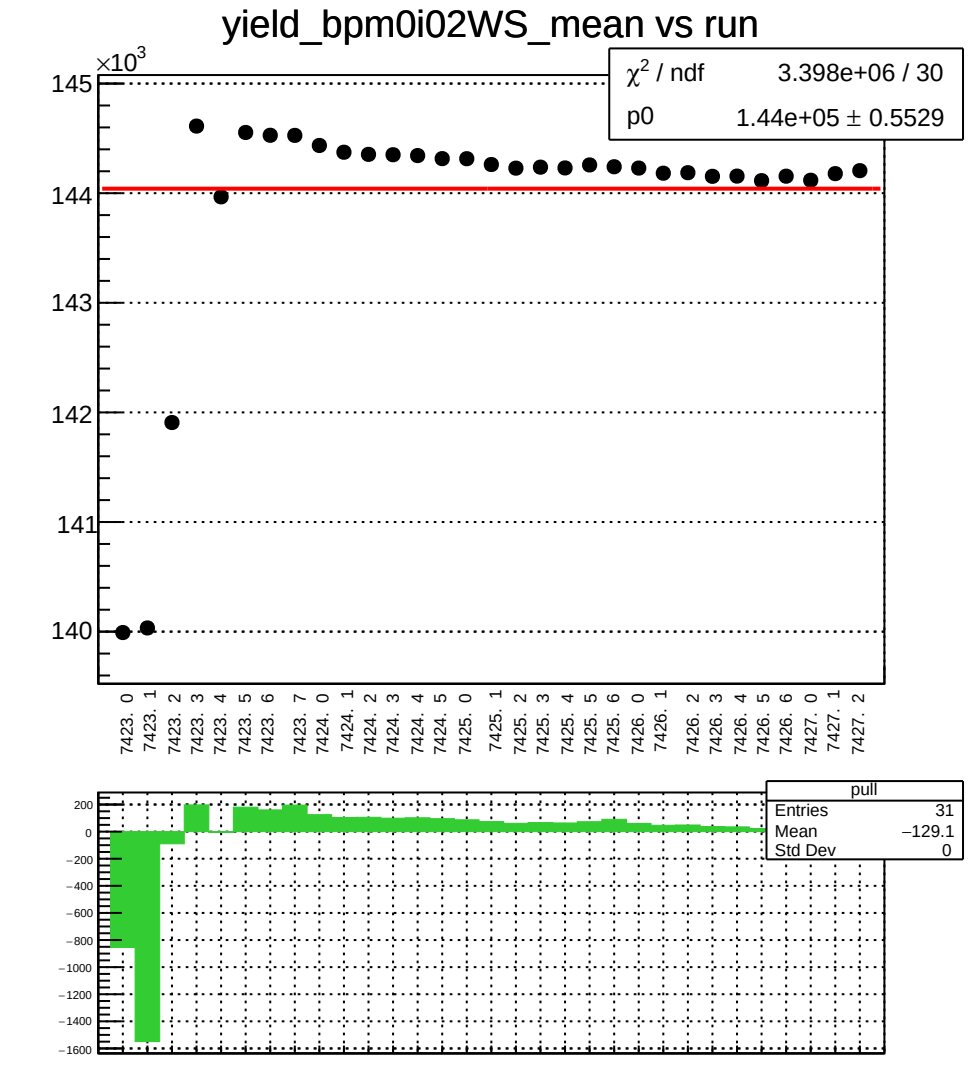

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

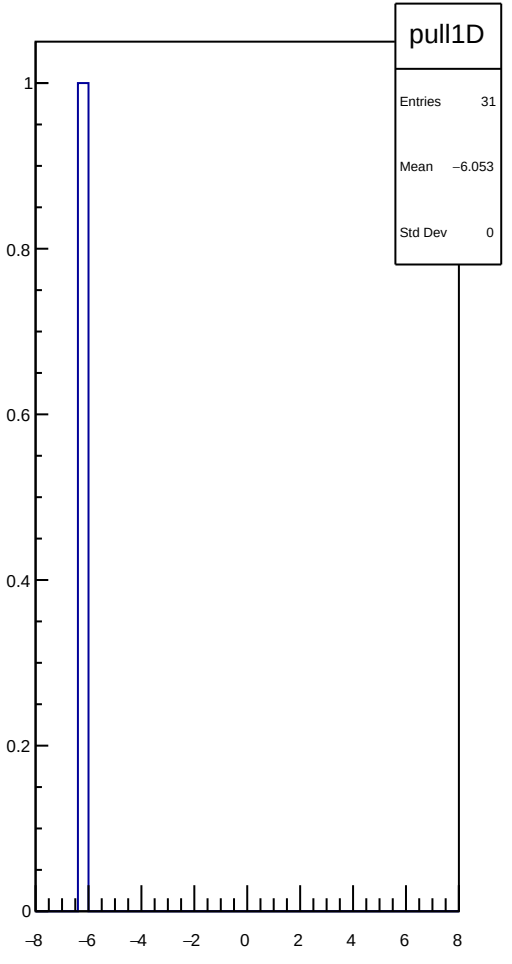

yield_bpm0r03WS_rms vs run
χ² / ndf 5.099e+04 / 30
p0 281.5 ± 0.3815
3000
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

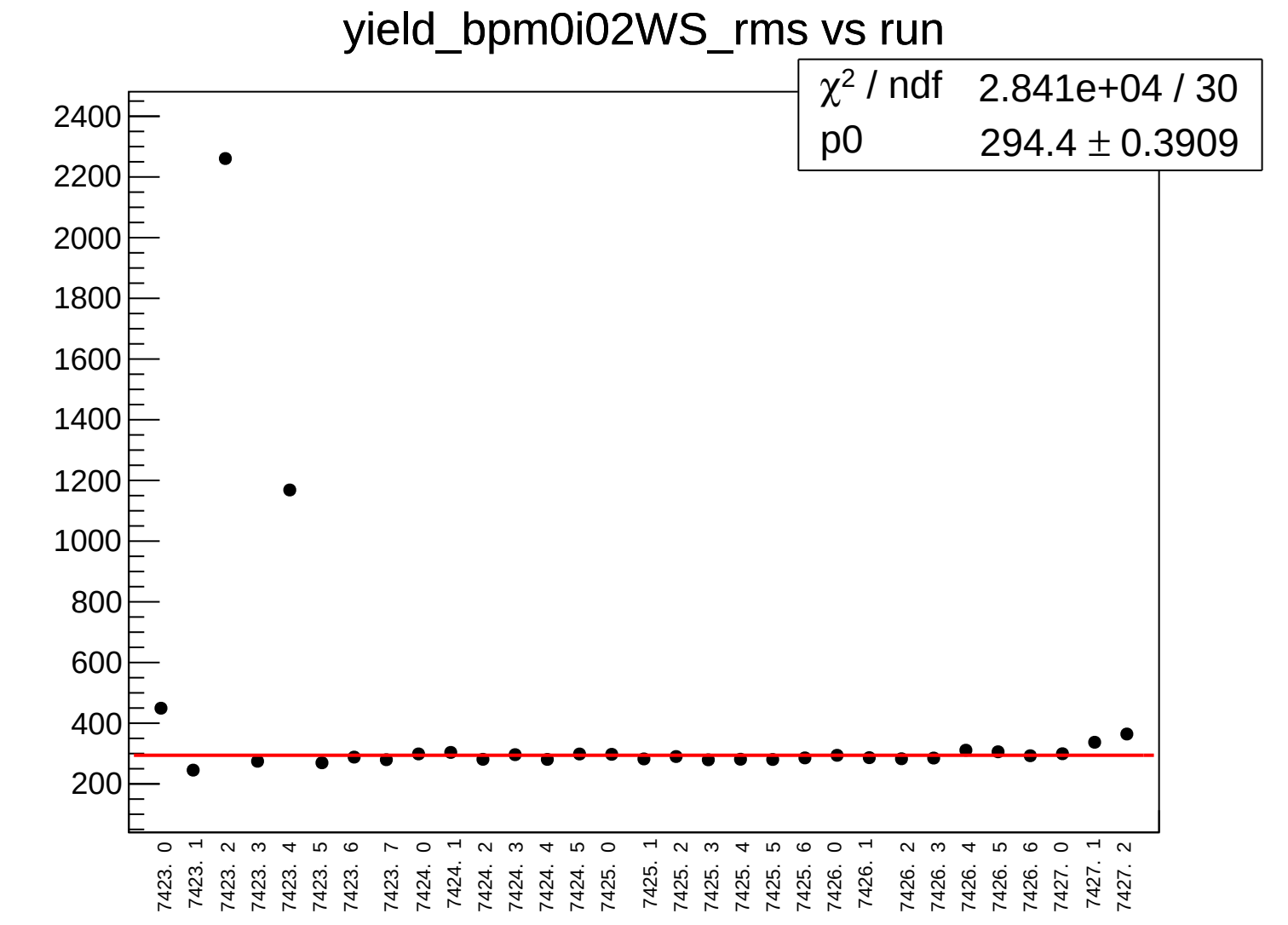

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 2.055e+06 / 30
p0 1.347e+05 ± 0.7546
135
134
133
132
131
130
129
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −35.16
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200

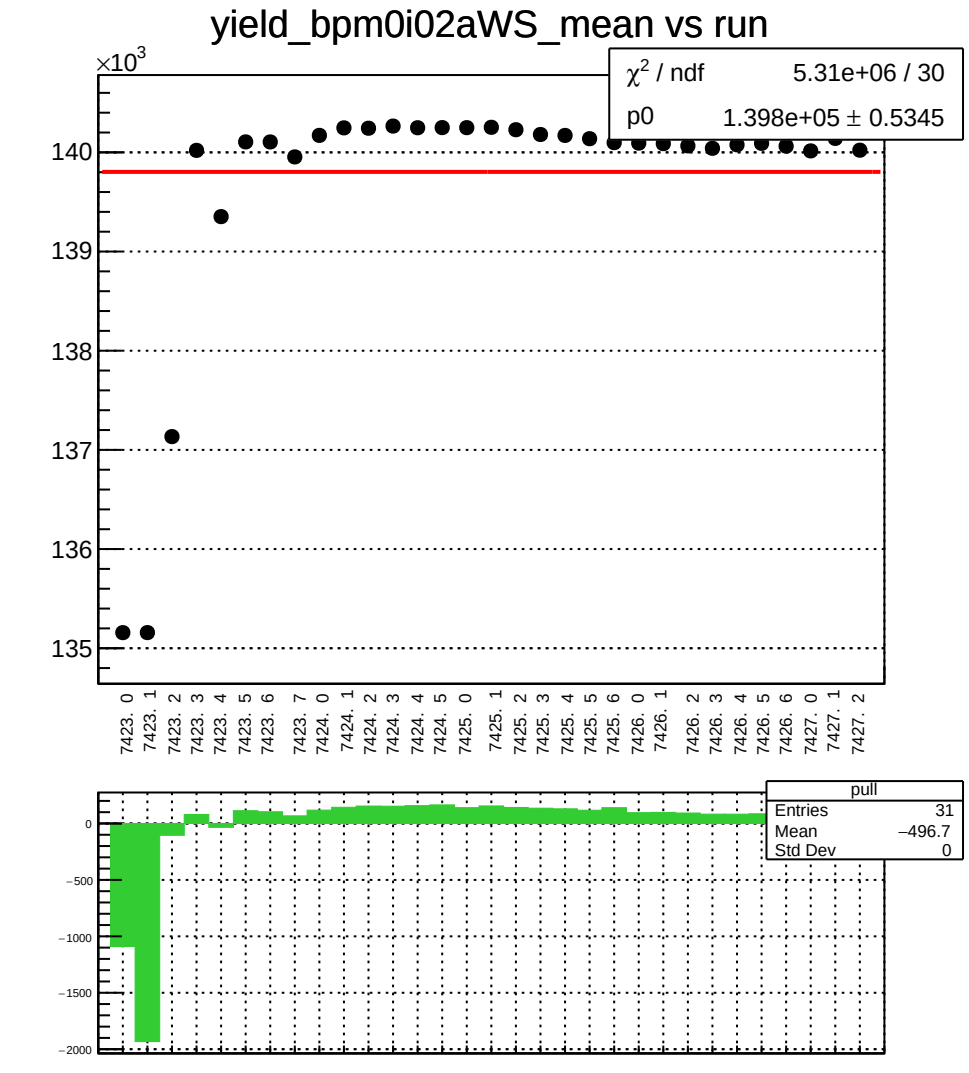

pull1D
Entries 31
Mean −5.881
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

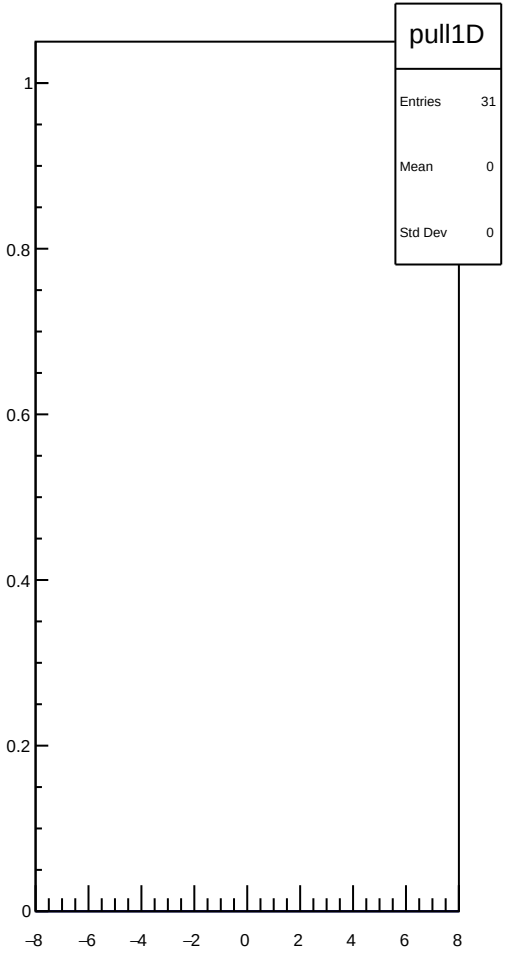

yield_bpm0r05WS_rms vs run
χ² / ndf 3.82e+04 / 30
p0 398.3 ± 0.5336
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

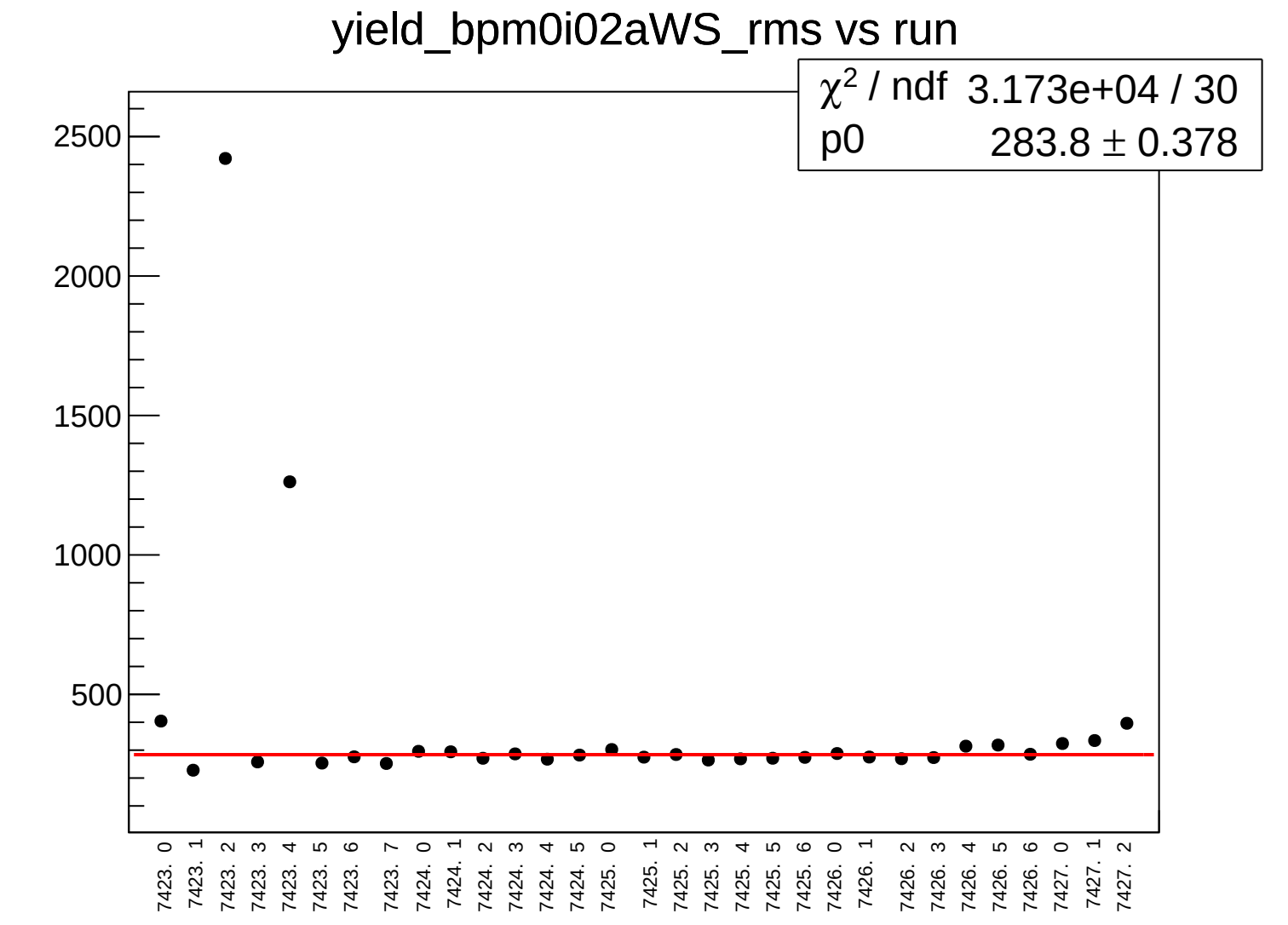

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 3.398e+06 / 30
p0 1.44e+05 ± 0.5529
145
144
143
142
141
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −129.1
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

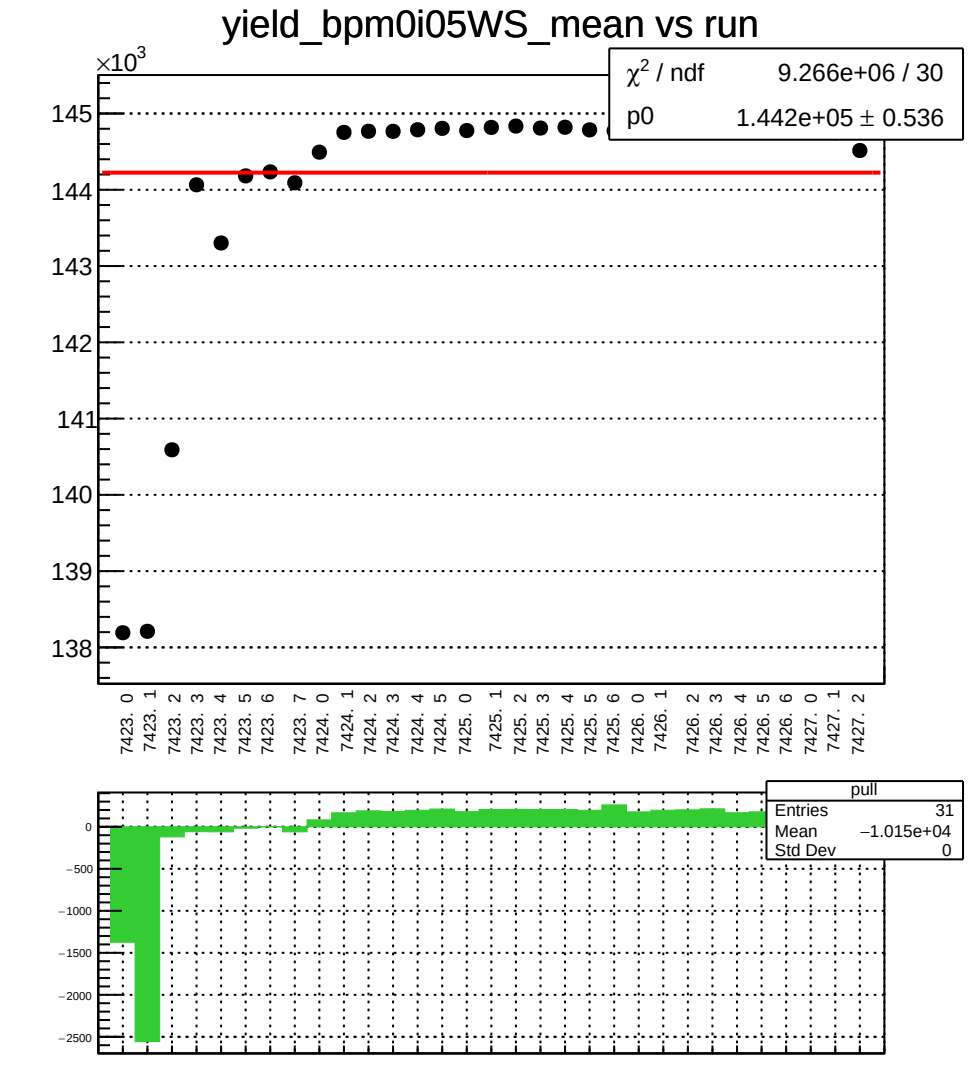

pull1D
Entries 31
Mean −6.053
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

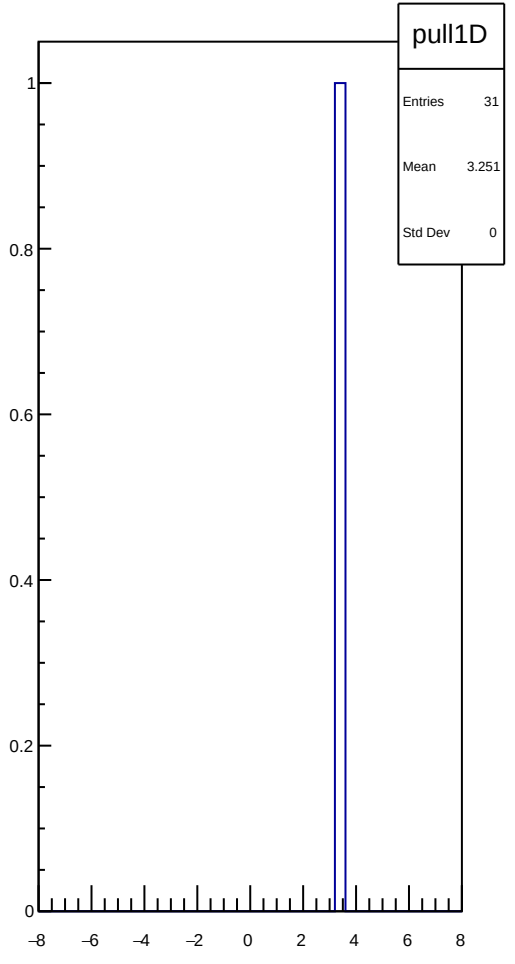

yield_bpm0i02WS_rms vs run
χ² / ndf 2.841e+04 / 30
p0 294.4 ± 0.3909
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

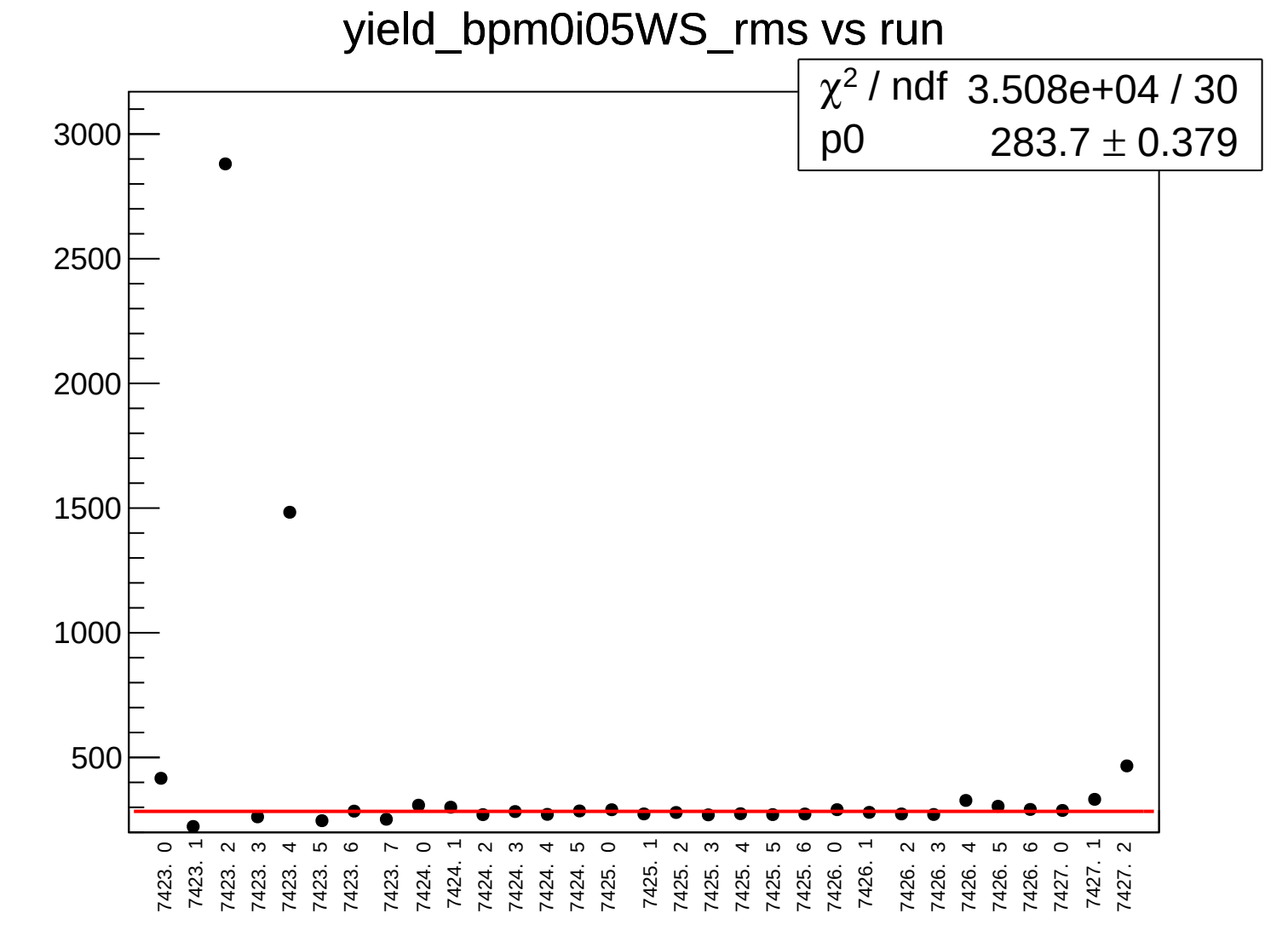

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 5.31e+06 / 30
p0 1.398e+05 ± 0.5345
140
139
138
137
136
135
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −496.7
Std Dev 0
0
−500
−1000
−1500
−2000

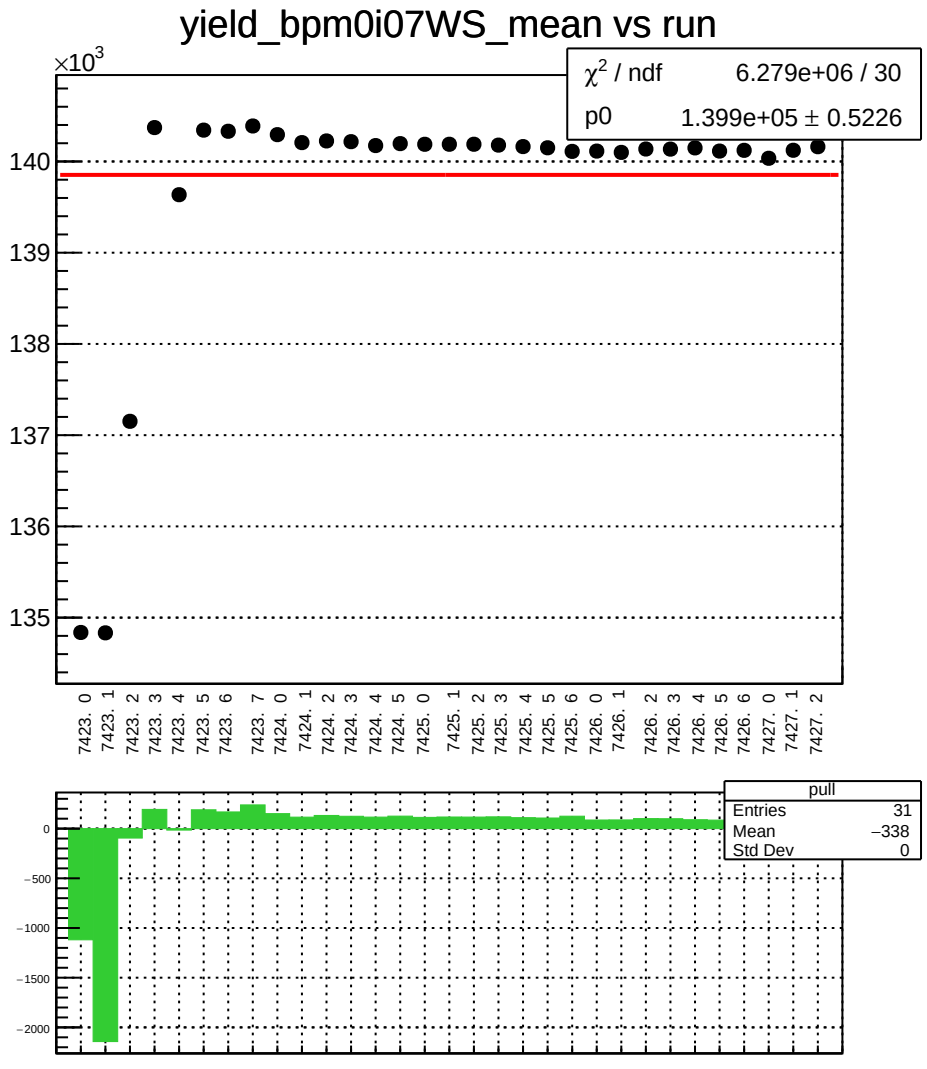

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

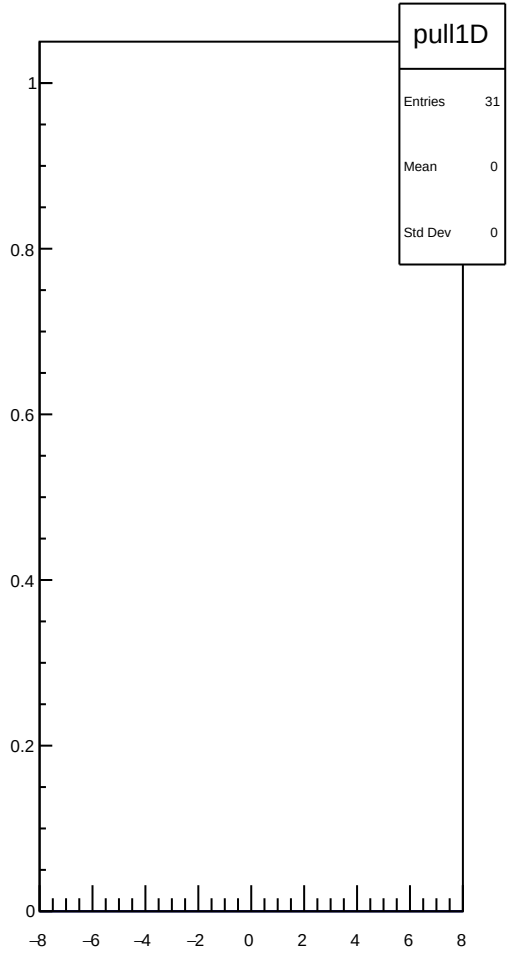

yield_bpm0i02aWS_rms vs run
χ² / ndf 3.173e+04 / 30
p0 283.8 ± 0.378
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

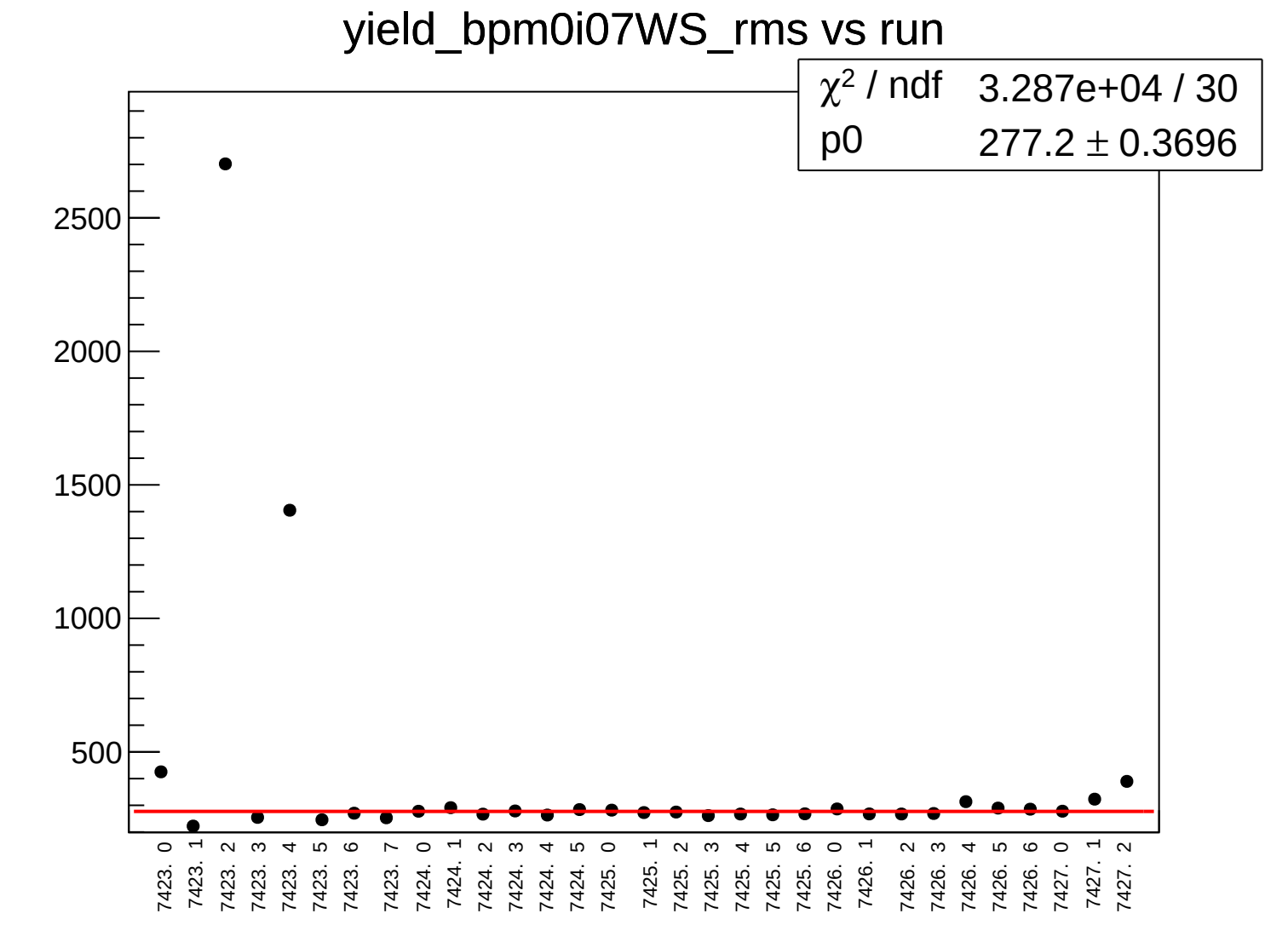

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 9.266e+06 / 30
p0 1.442e+05 ± 0.536
145
144
143
142
141
140
139
138
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1.015e+04
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

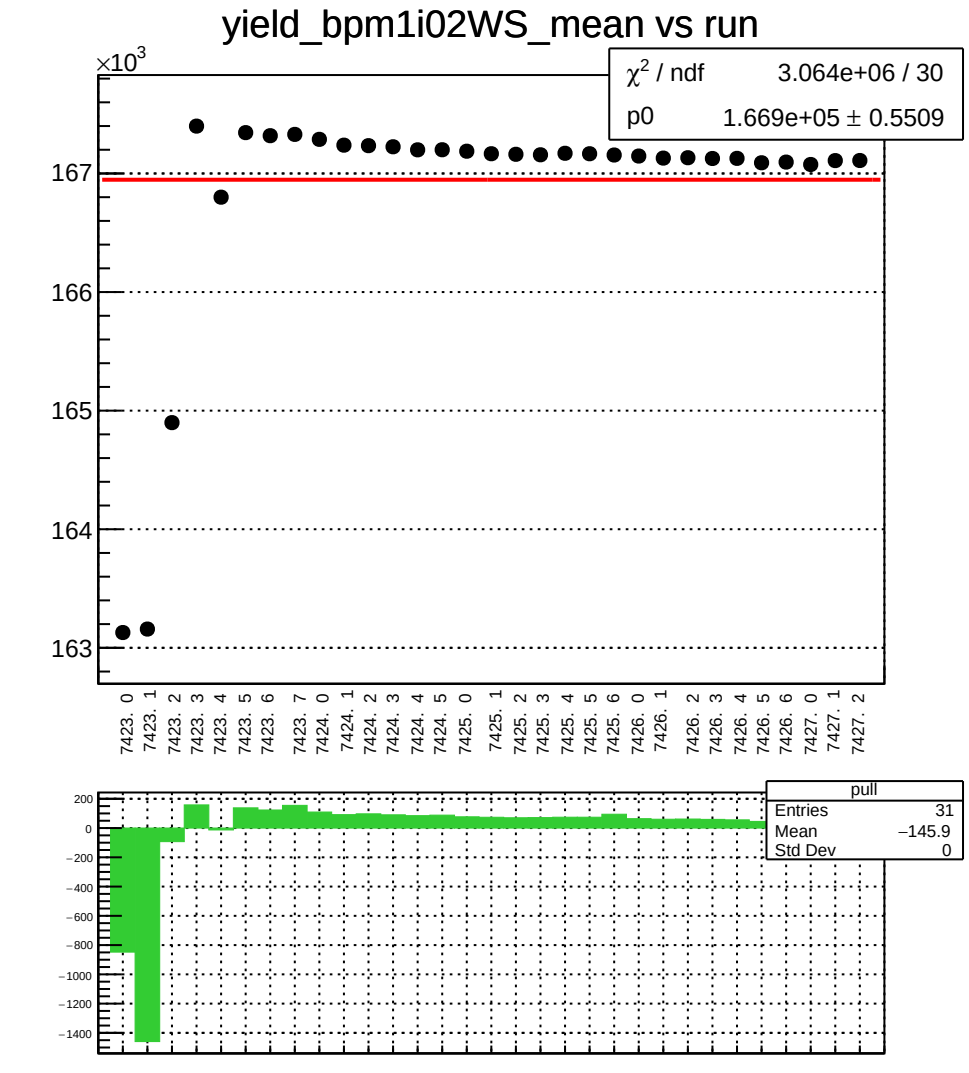

pull1D
Entries 31
Mean 3.251
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

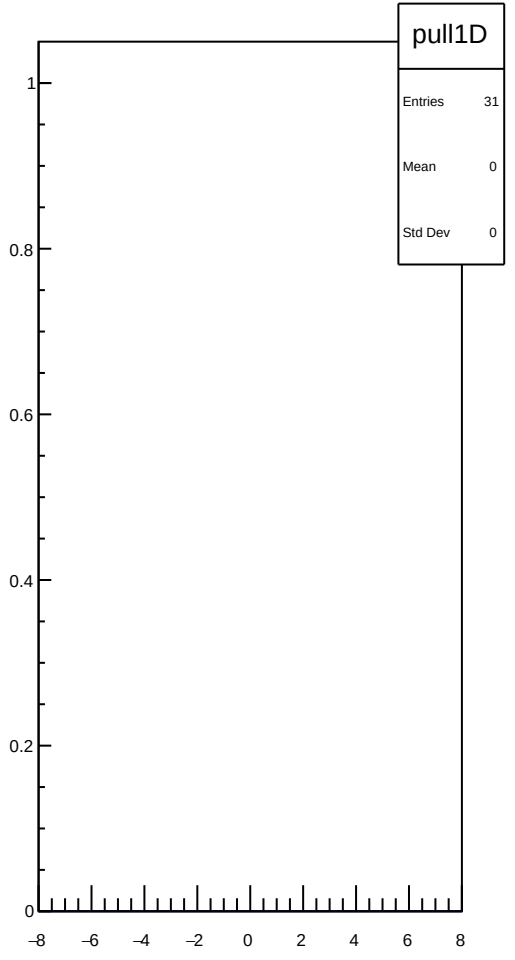

yield_bpm0i05WS_rms vs run
χ^2 / ndf 3.508e+04 / 30
p0 283.7 ± 0.379
3000
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

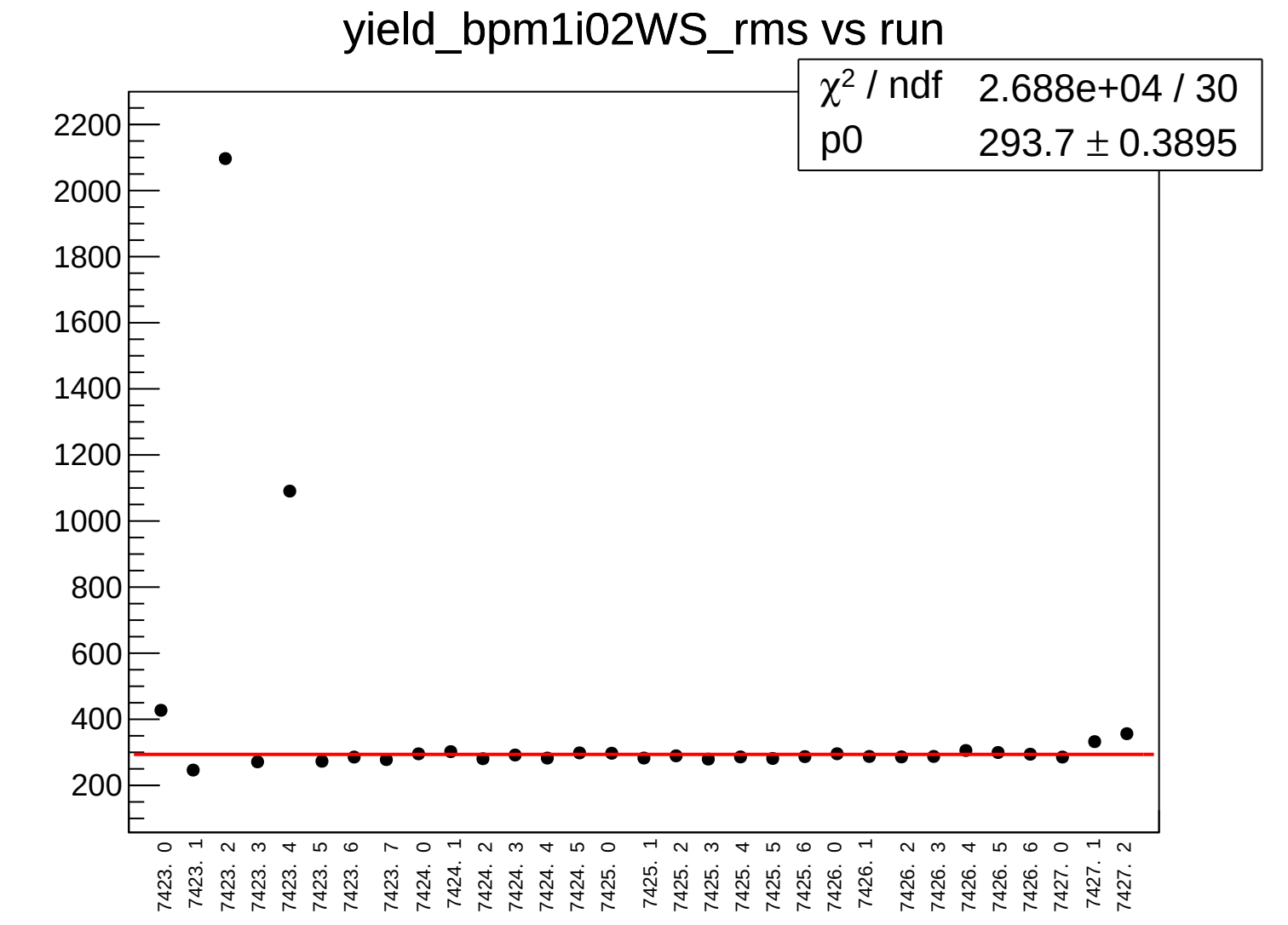

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 6.279e+06 / 30
p0 1.399e+05 ± 0.5226
140
139
138
137
136
135
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −338
Std Dev 0
0
−500
−1000
−1500
−2000

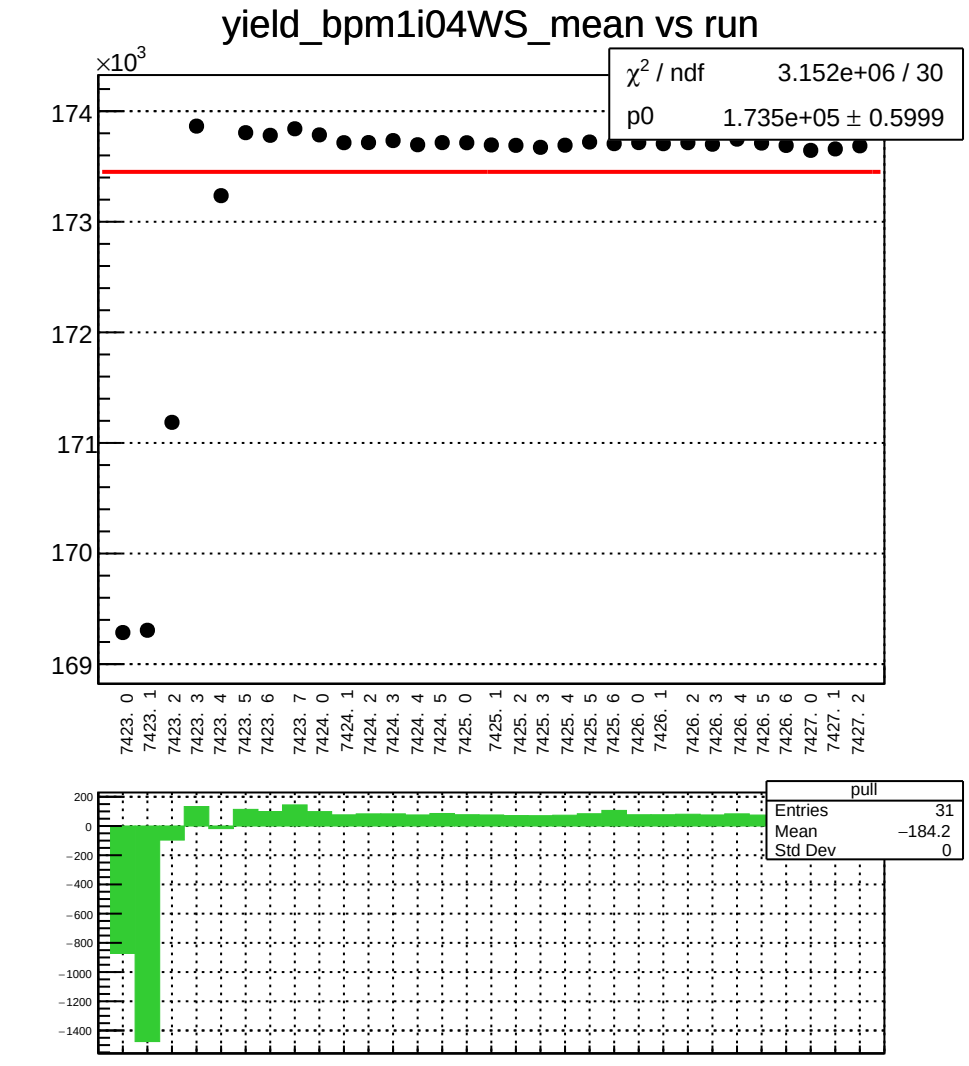

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

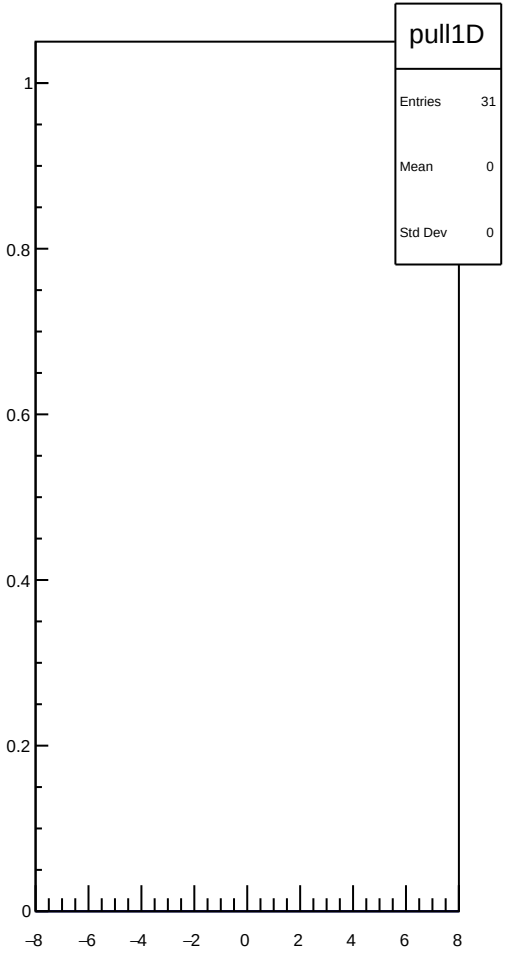

yield_bpm0i07WS_rms vs run
χ² / ndf 3.287e+04 / 30
p0 277.2 ± 0.3696
2500
2000
1500
1000
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

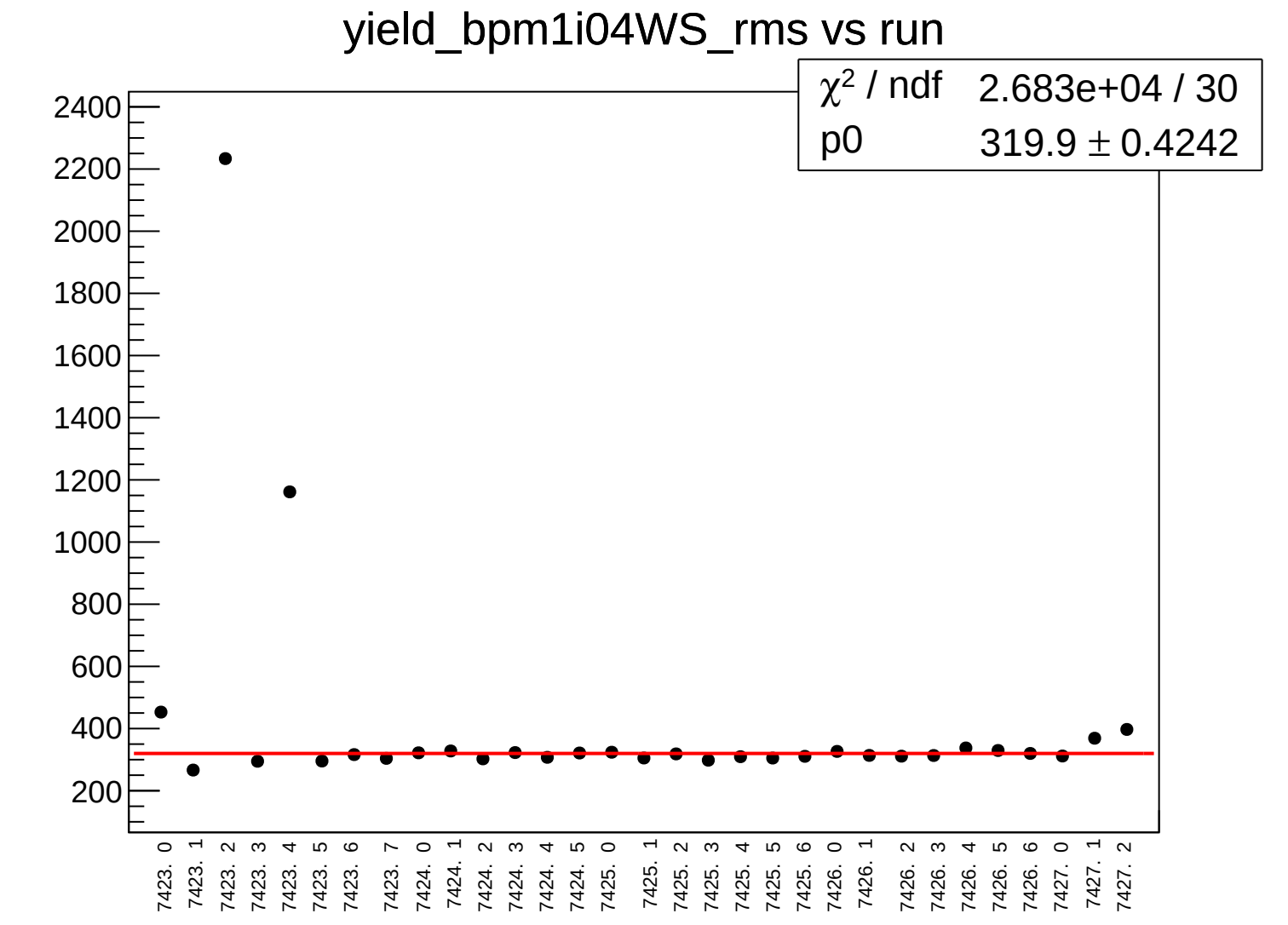

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 3.064e+06 / 30
p0 1.669e+05 ± 0.5509
167
166
165
164
163
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean –145.9
Std Dev 0
200
0
–200
–400
–600
–800
–1000
–1200
–1400

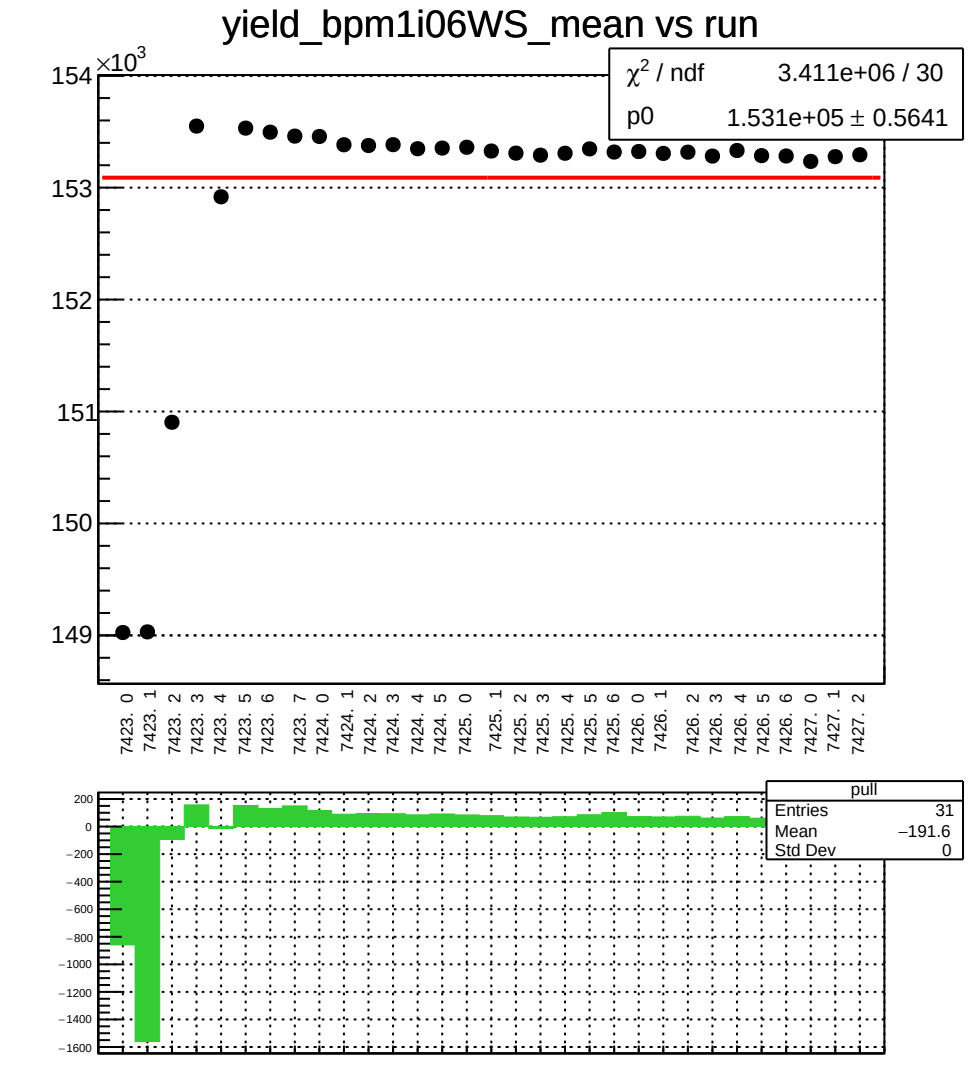

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

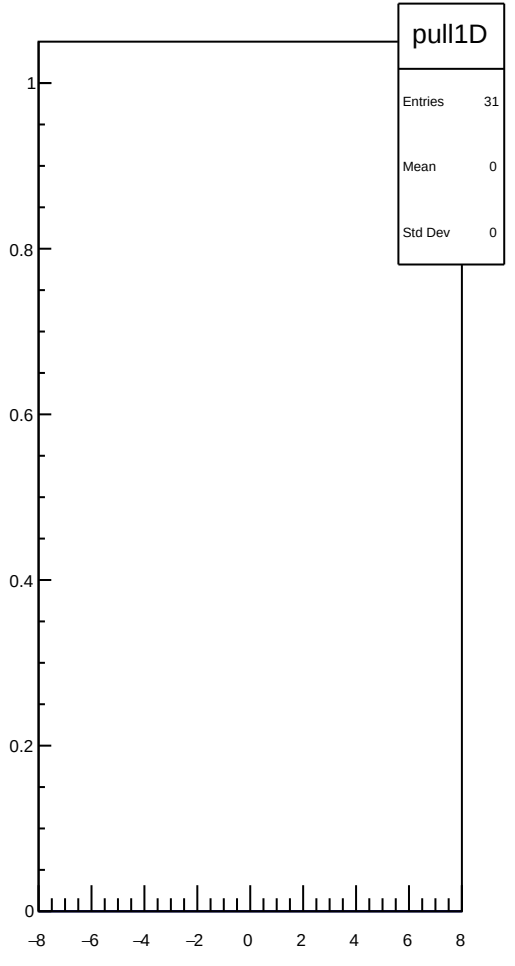

yield_bpm1i02WS_rms vs run
χ² / ndf 2.688e+04 / 30
p0 293.7 ± 0.3895
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

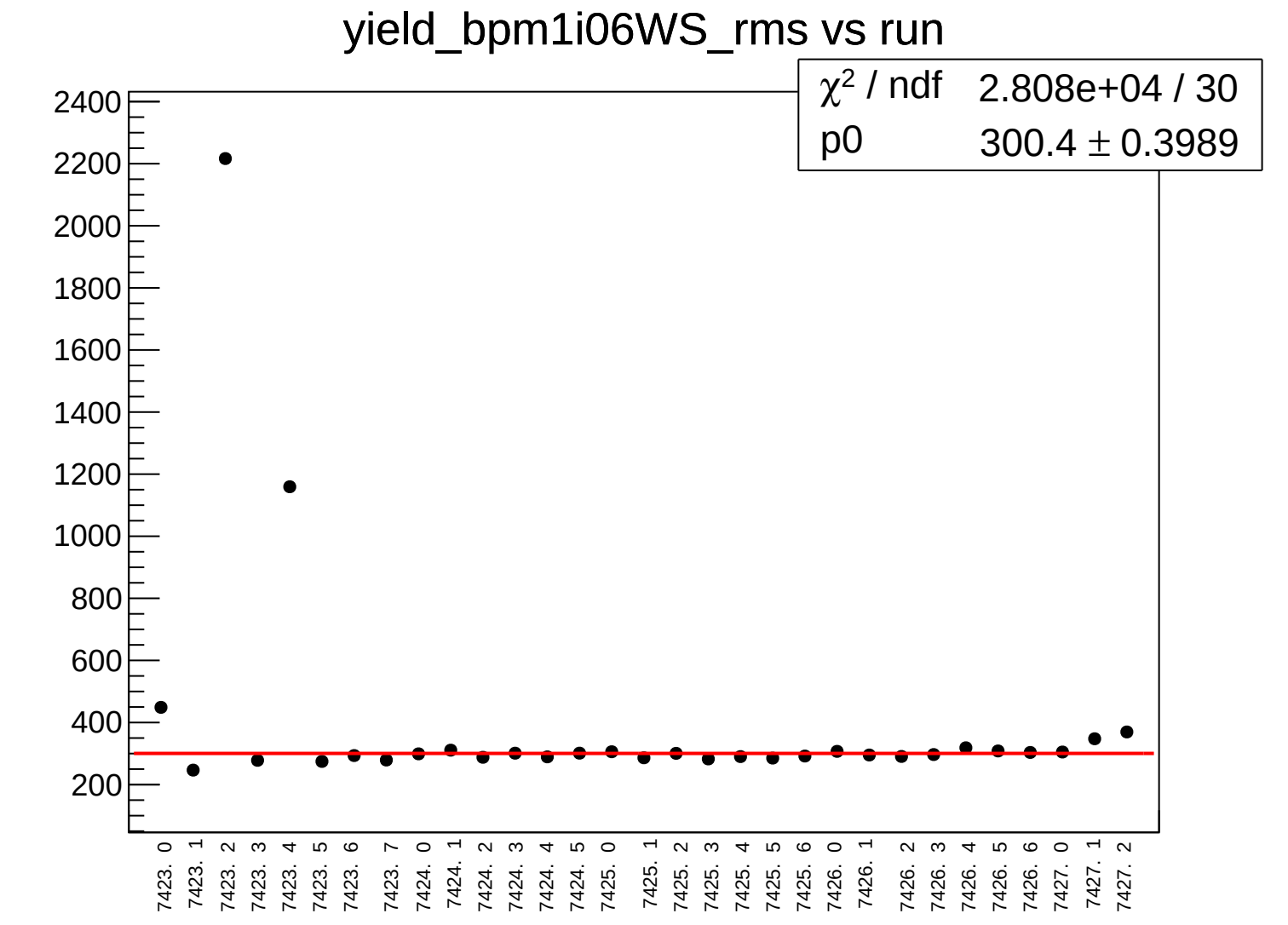

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 3.152e+06 / 30
p0 1.735e+05 ± 0.5999
174
173
172
171
170
169
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −184.2
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400

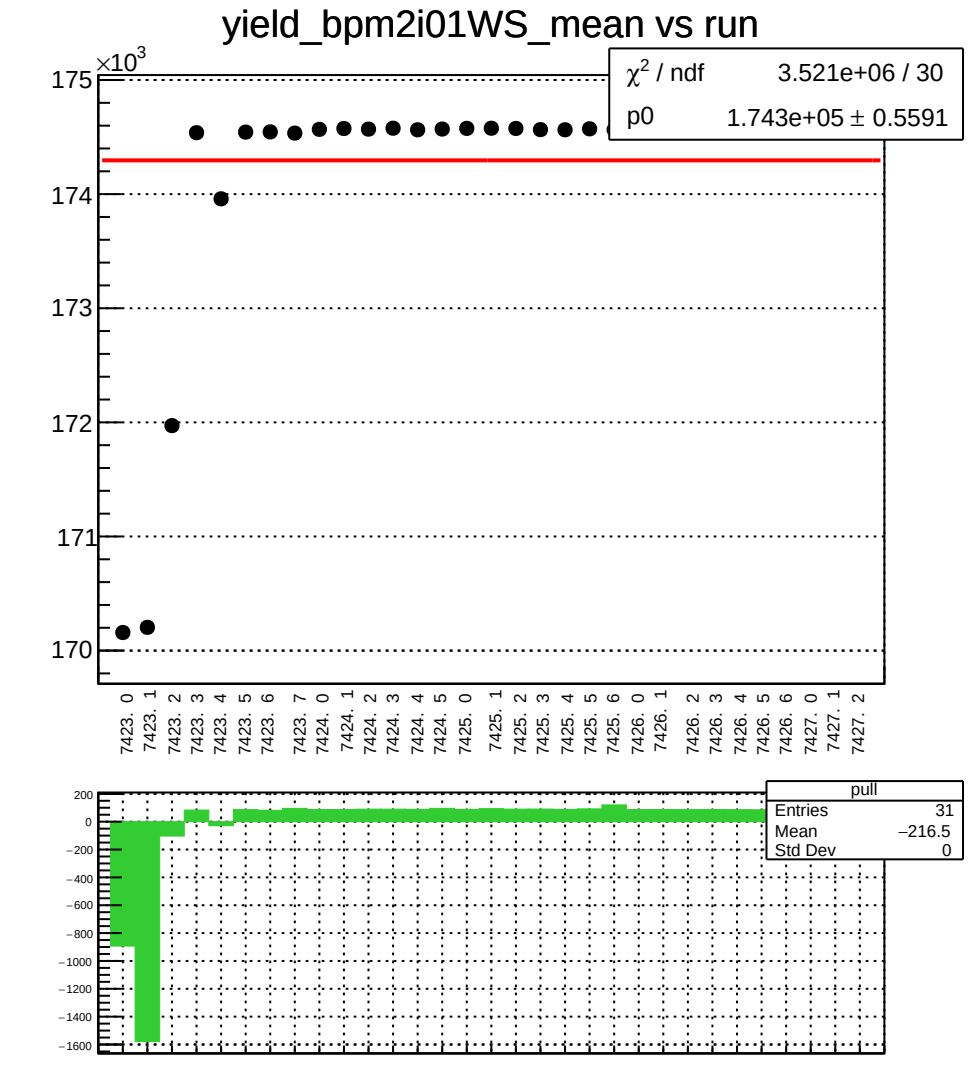

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

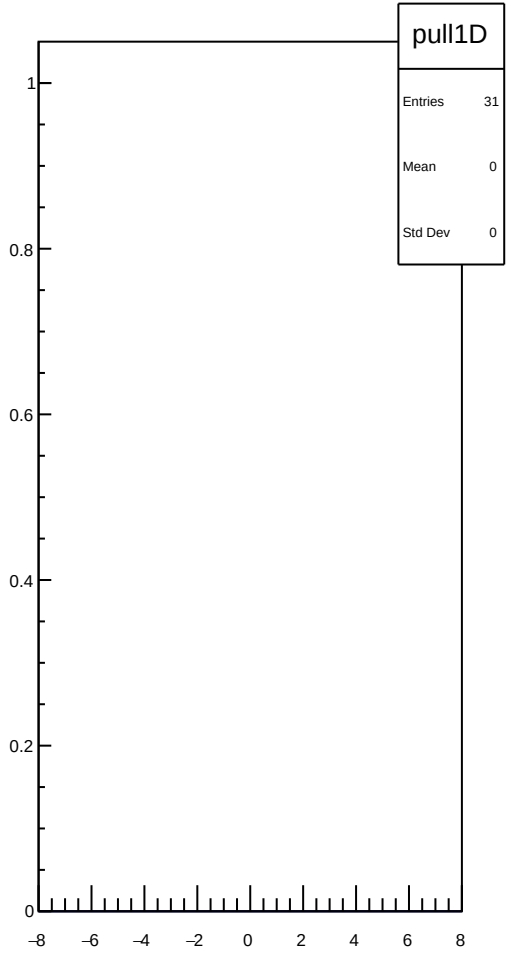

yield_bpm1i04WS_rms vs run
χ² / ndf 2.683e+04 / 30
p0 319.9 ± 0.4242
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

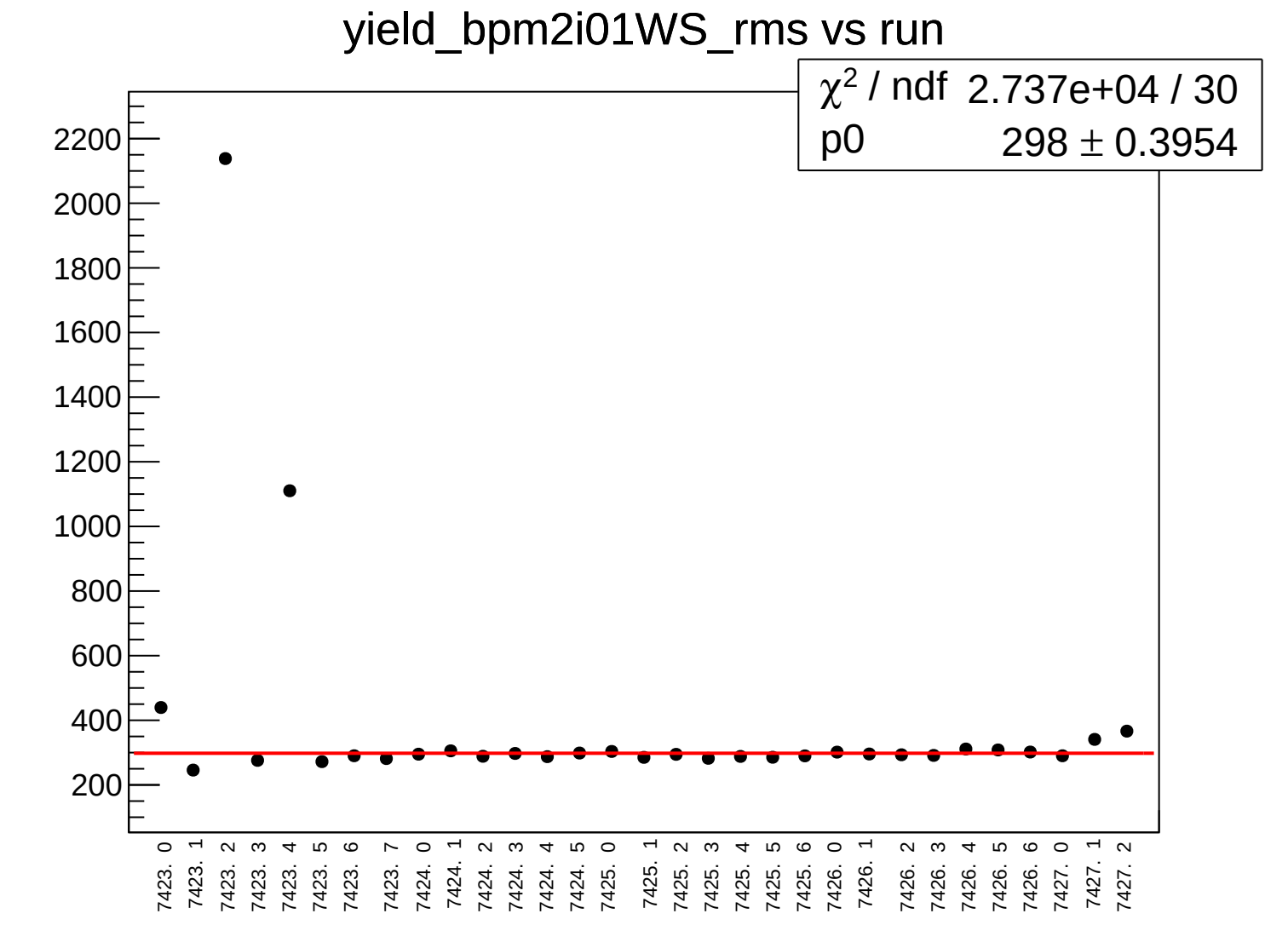

yield_bpm1i06WS_mean vs run
×10^3
154
153
152
151
150
149
χ² / ndf 3.411e+06 / 30
p0 1.531e+05 ± 0.5641
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull
Entries 31
Mean −191.6
Std Dev 0

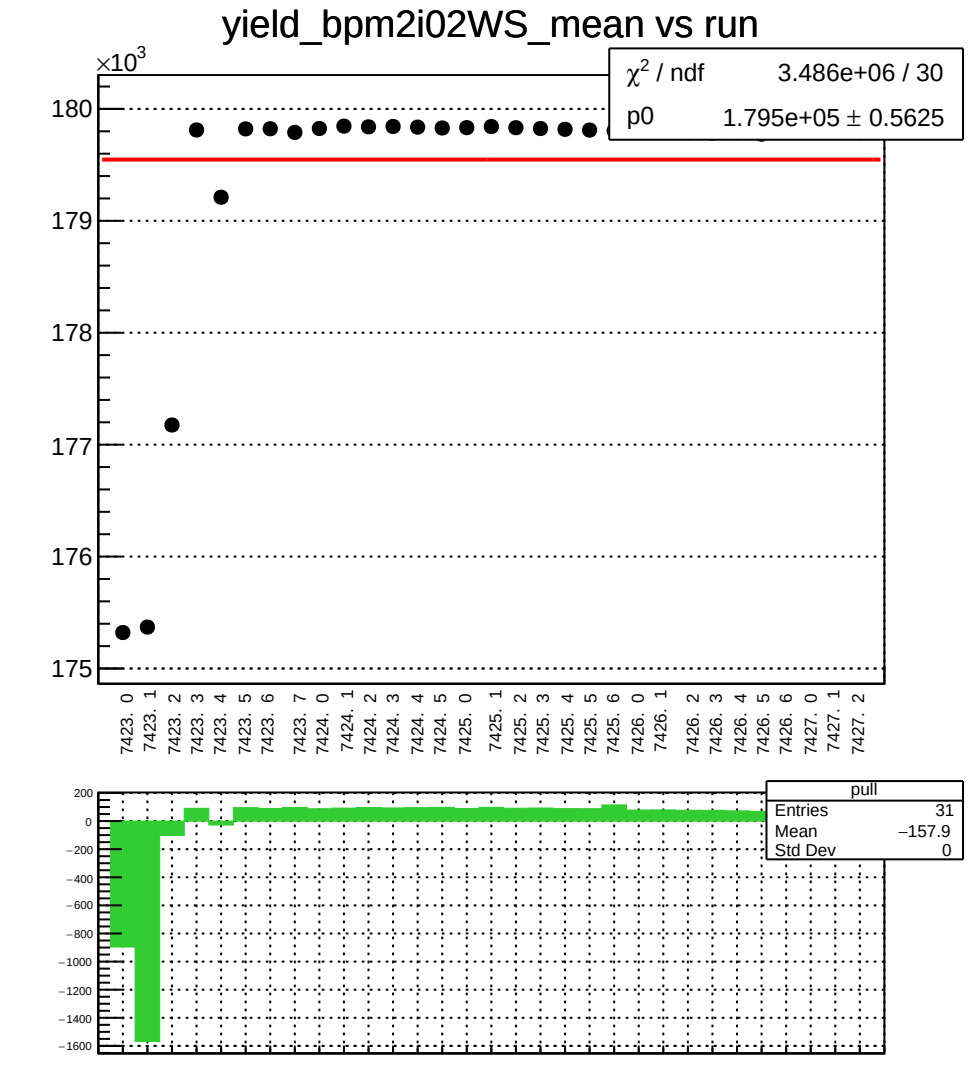

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

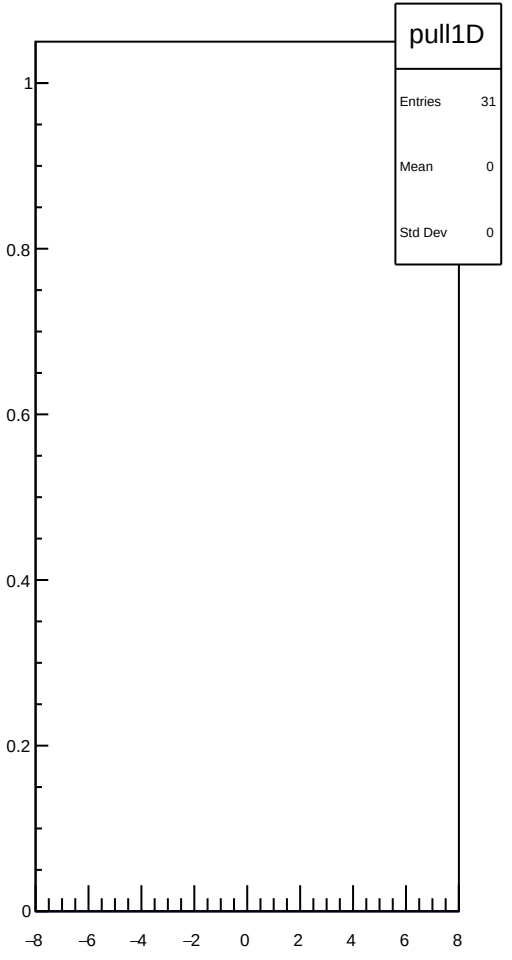

yield_bpm1i06WS_rms vs run
χ² / ndf 2.808e+04 / 30
p0 300.4 ± 0.3989
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

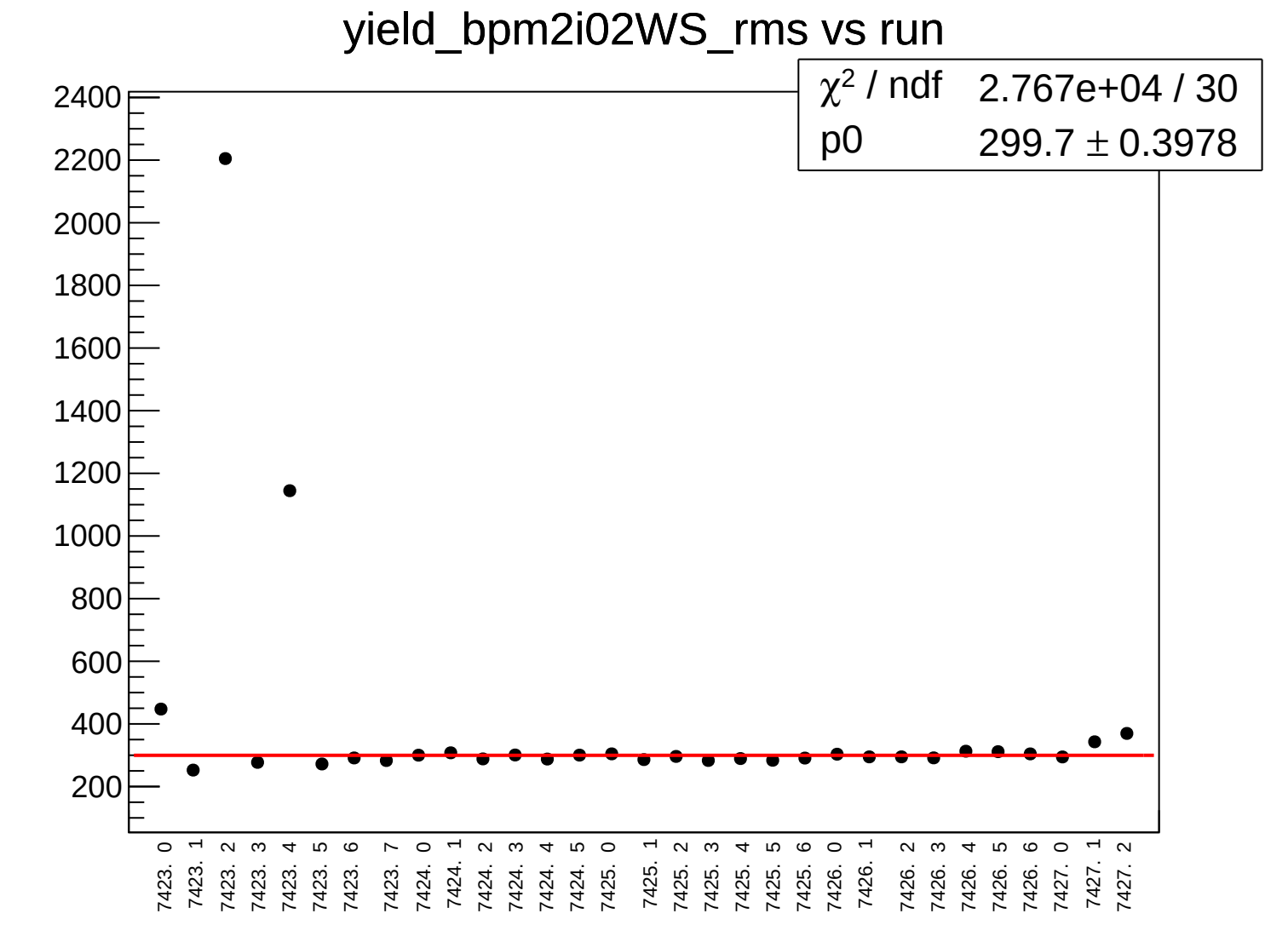

yield_bpm2i01WS_mean vs run
×10^3
175
174
173
172
171
170
χ² / ndf 3.521e+06 / 30
p0 1.743e+05 ± 0.5591
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull
Entries 31
Mean −216.5
Std Dev 0

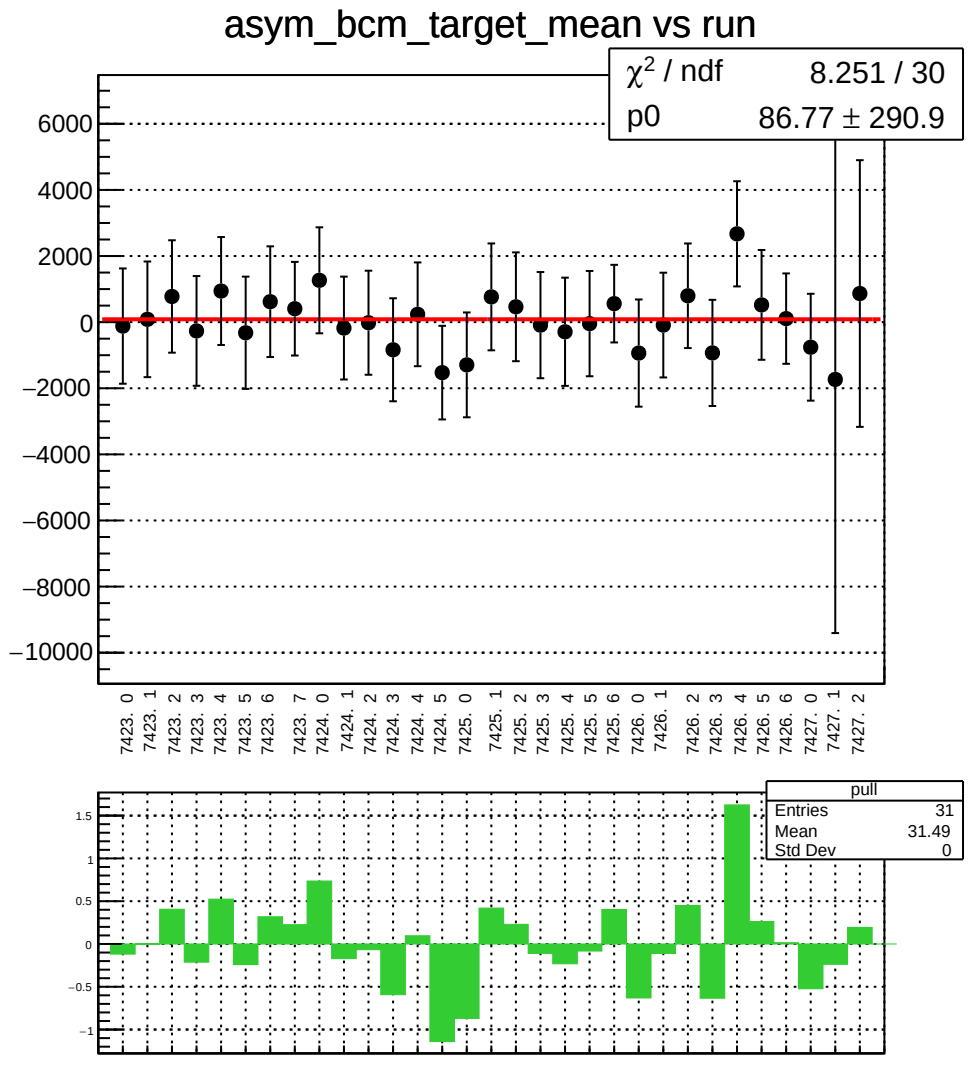

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

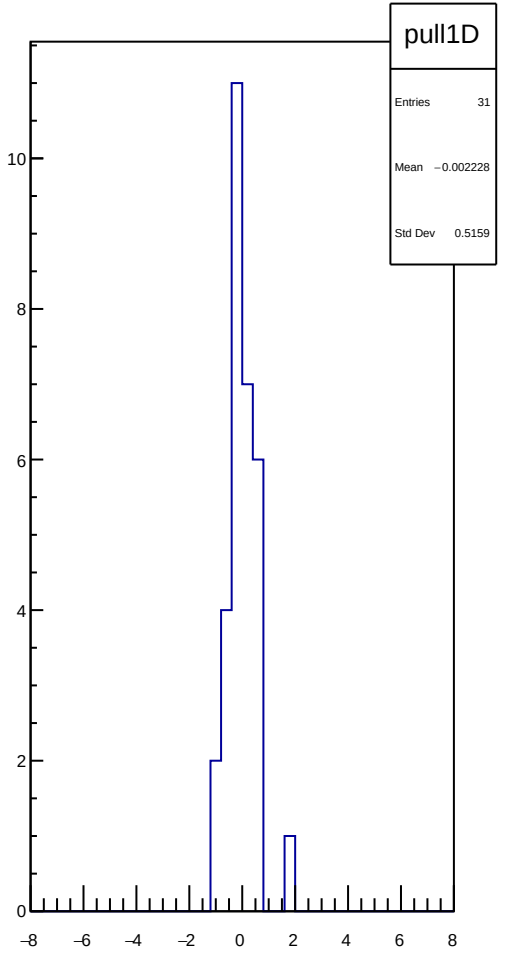

yield_bpm2i01WS_rms vs run
χ² / ndf 2.737e+04 / 30
p0 298 ± 0.3954
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

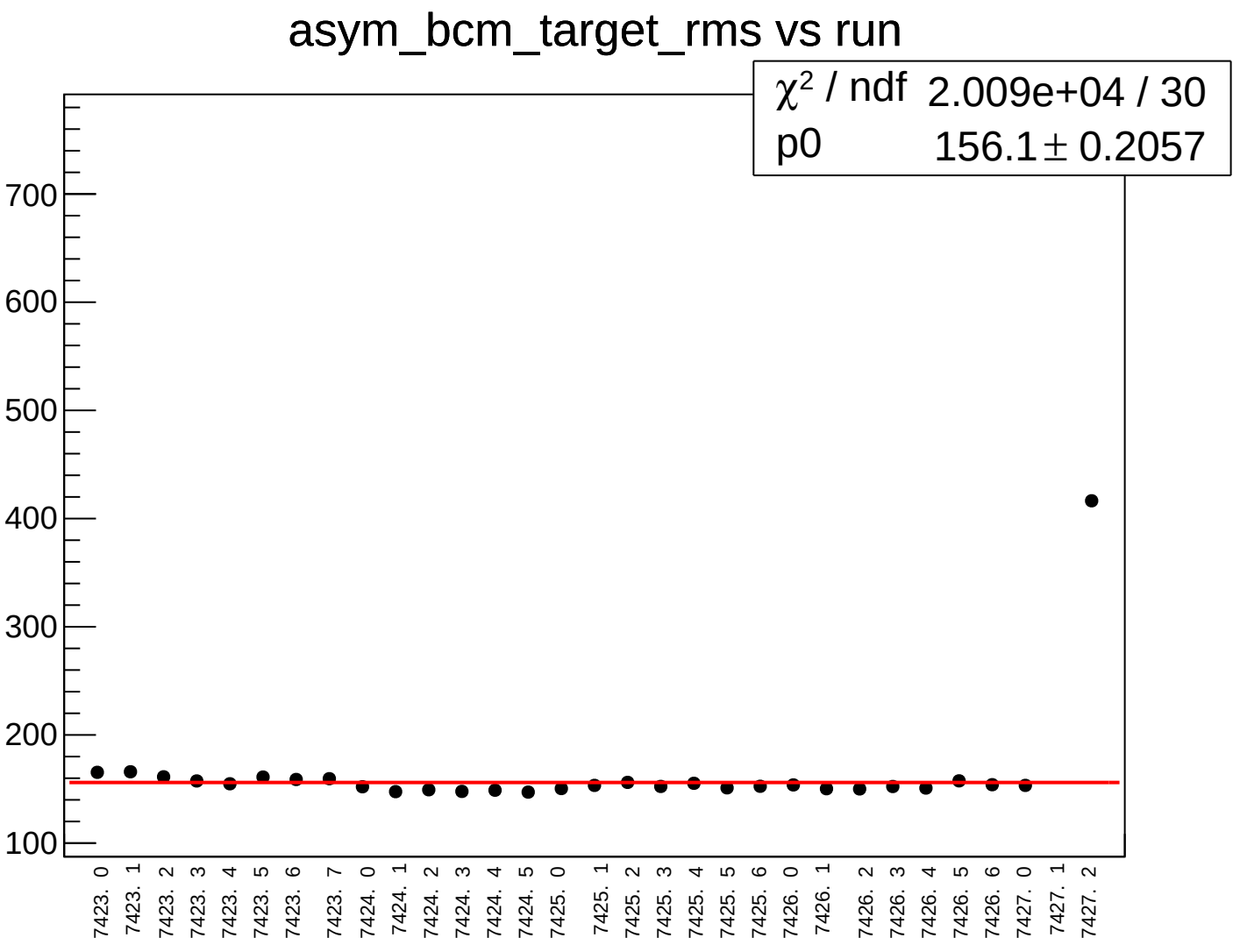

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 3.486e+06 / 30
p0 1.795e+05 ± 0.5625
180
179
178
177
176
175
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −157.9
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

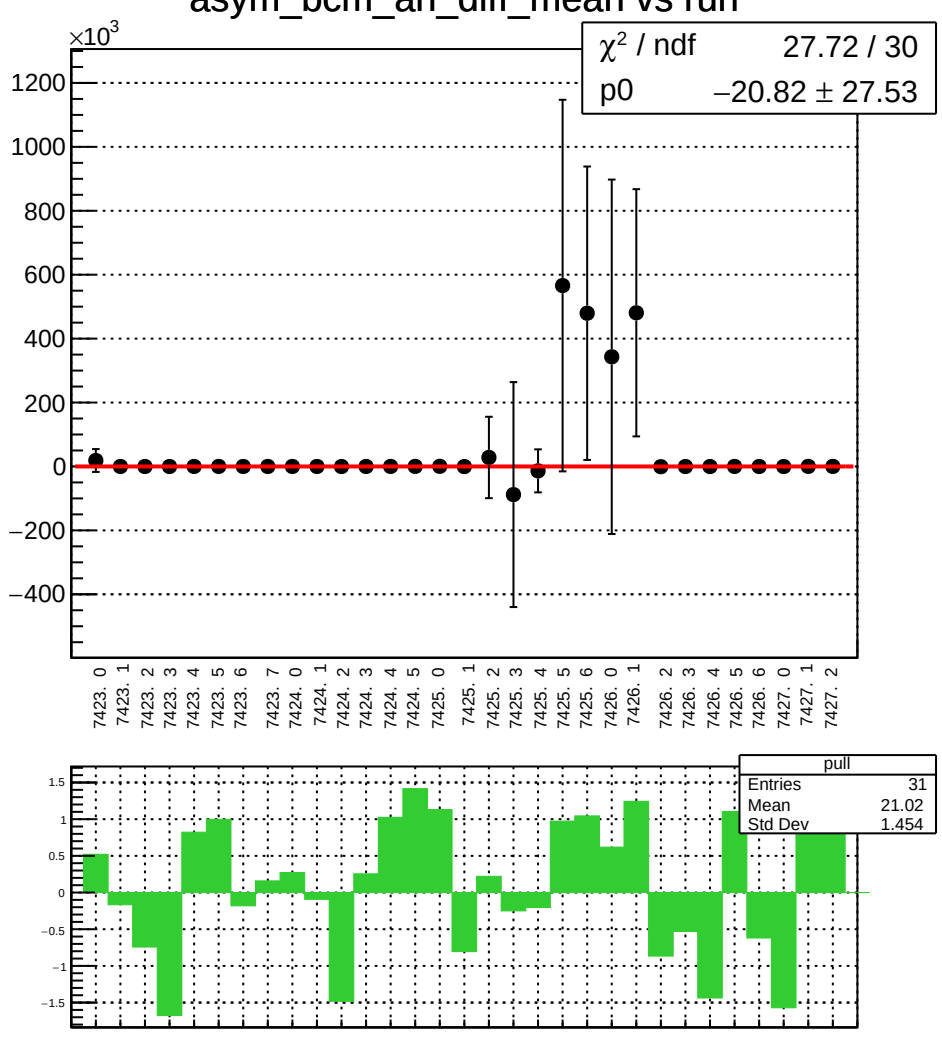

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

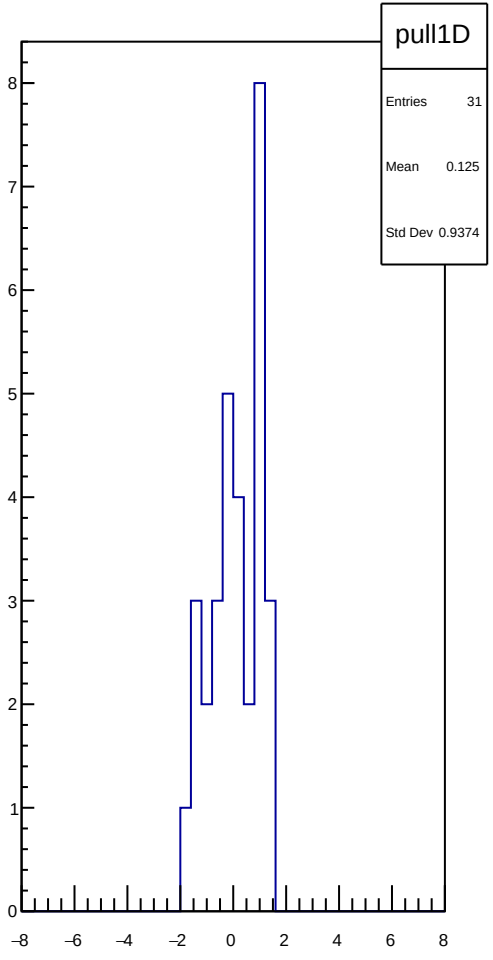

yield_bpm2i02WS_rms vs run
χ² / ndf 2.767e+04 / 30
p0 299.7 ± 0.3978
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

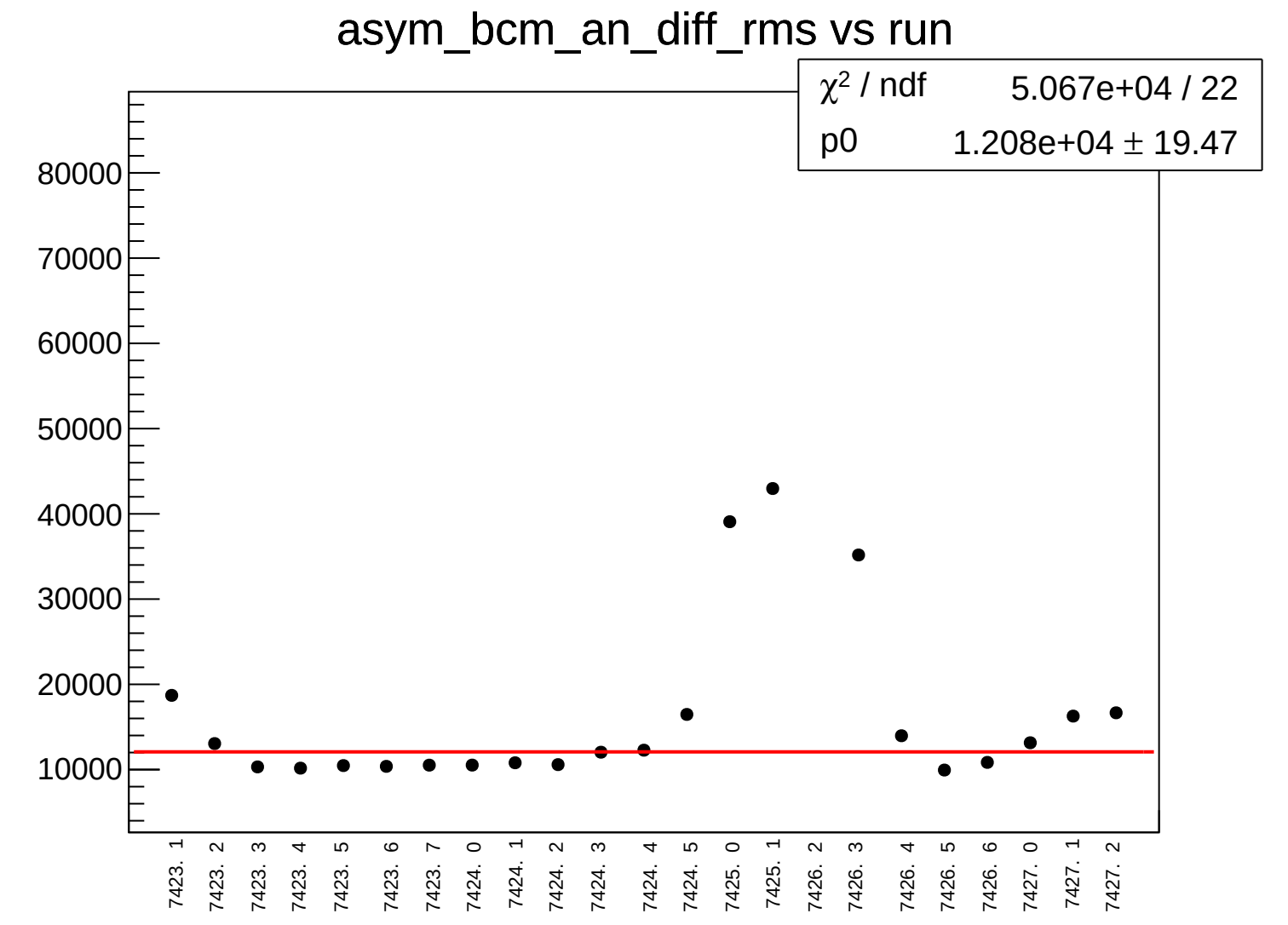

asym_bcm_target_mean vs run
χ² / ndf 8.251 / 30
p0 86.77 ± 290.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 31.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1

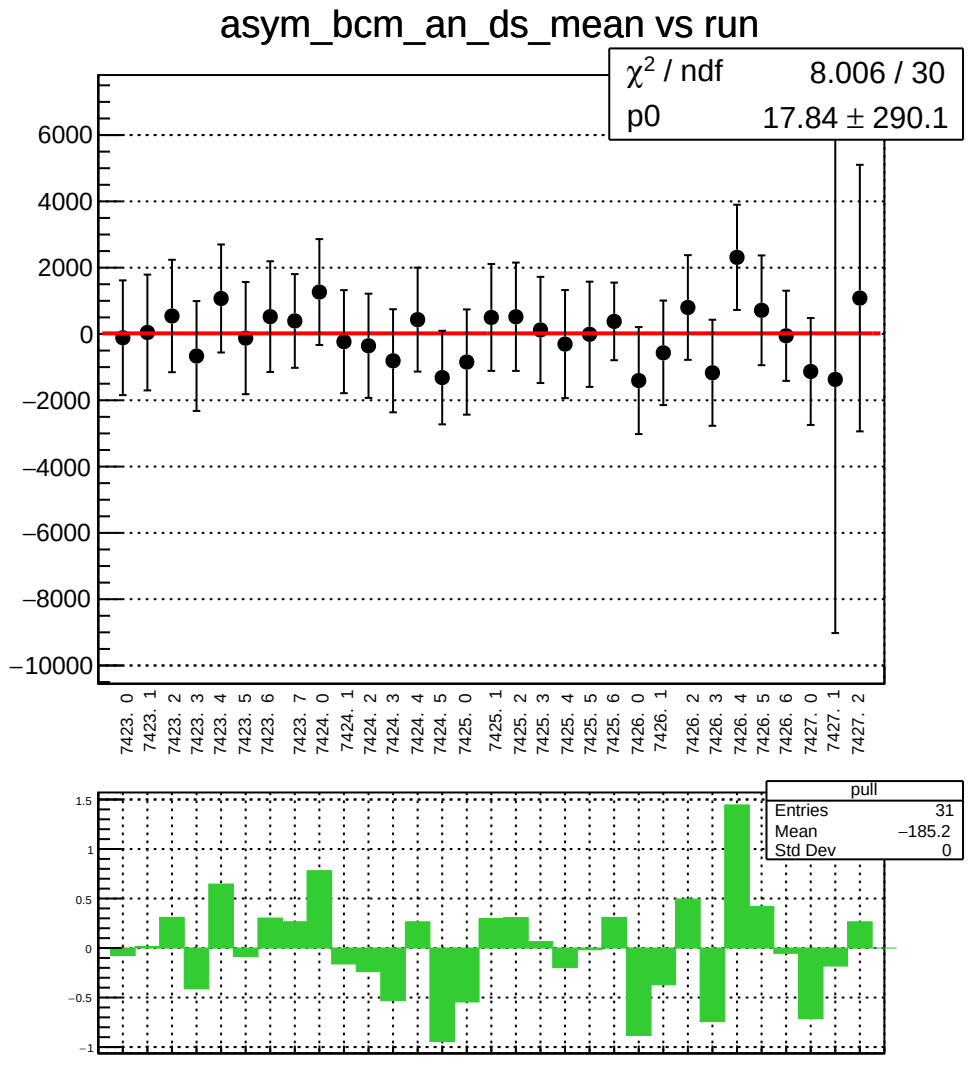

pull1D
Entries 31
Mean −0.002228
Std Dev 0.5159
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

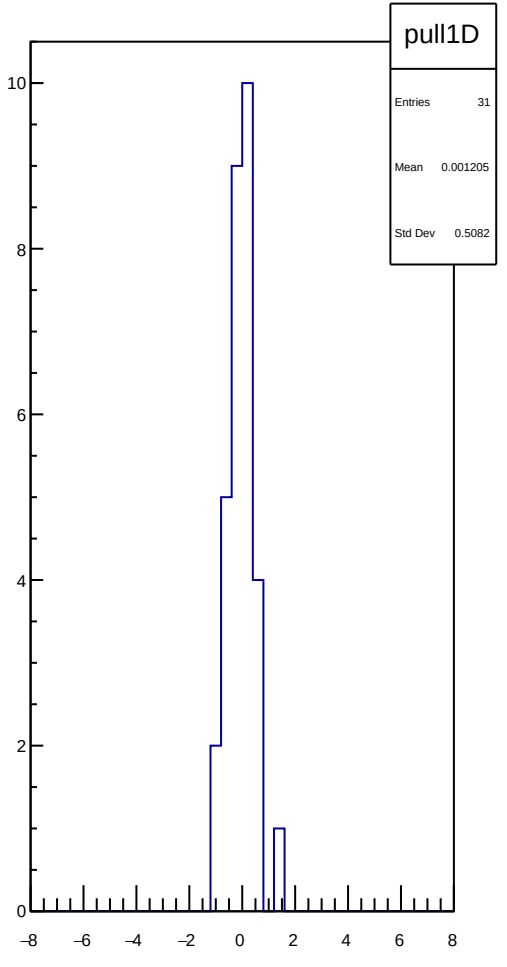

asym_bcm_target_rms vs run
χ² / ndf 2.009e+04 / 30
p0 156.1 ± 0.2057
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

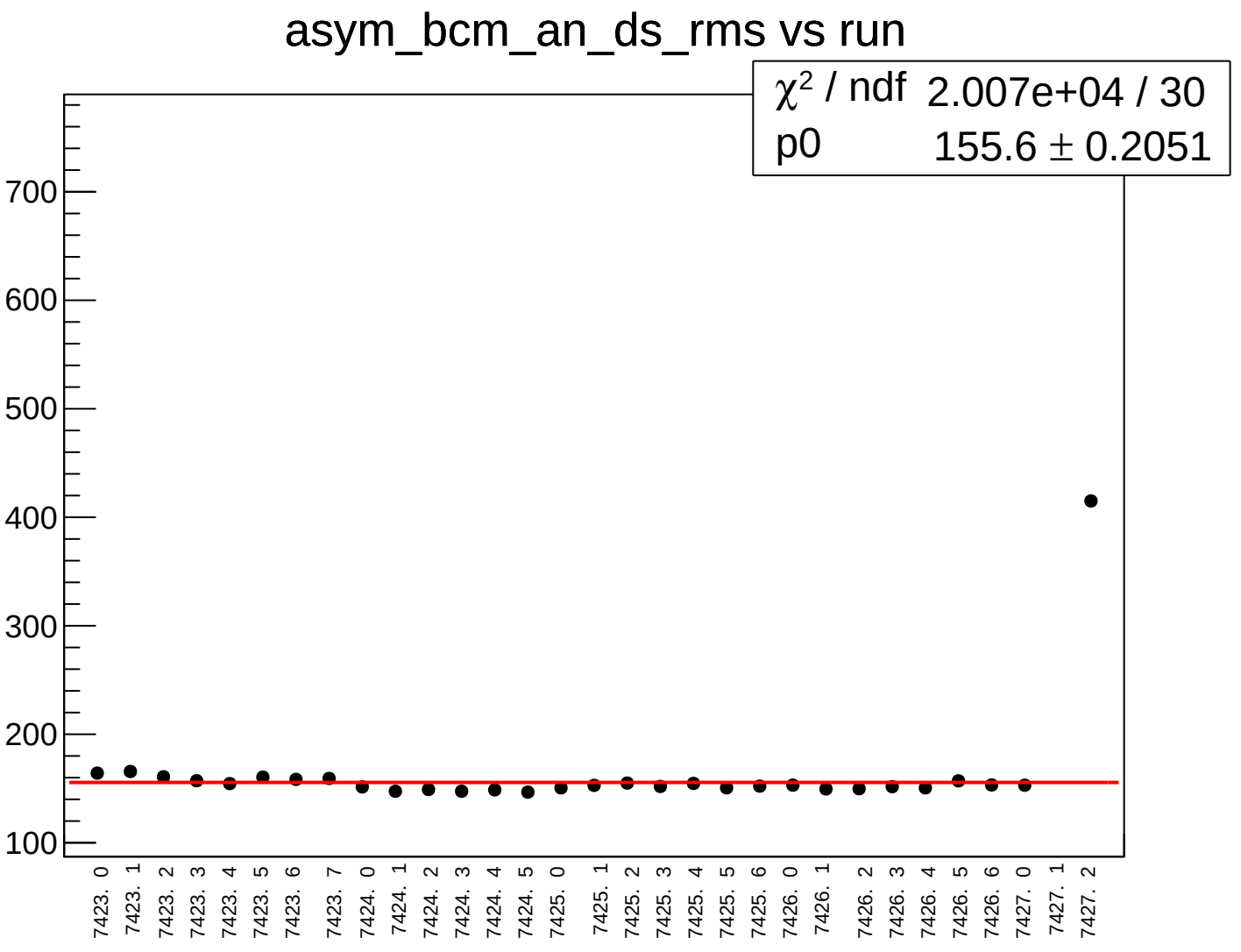

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 27.72 / 30
p0 −20.82 ± 27.53
1200
1000
800
600
400
200
0
−200
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 21.02
Std Dev 1.454
1.5
1
0.5
0
−0.5
−1
−1.5

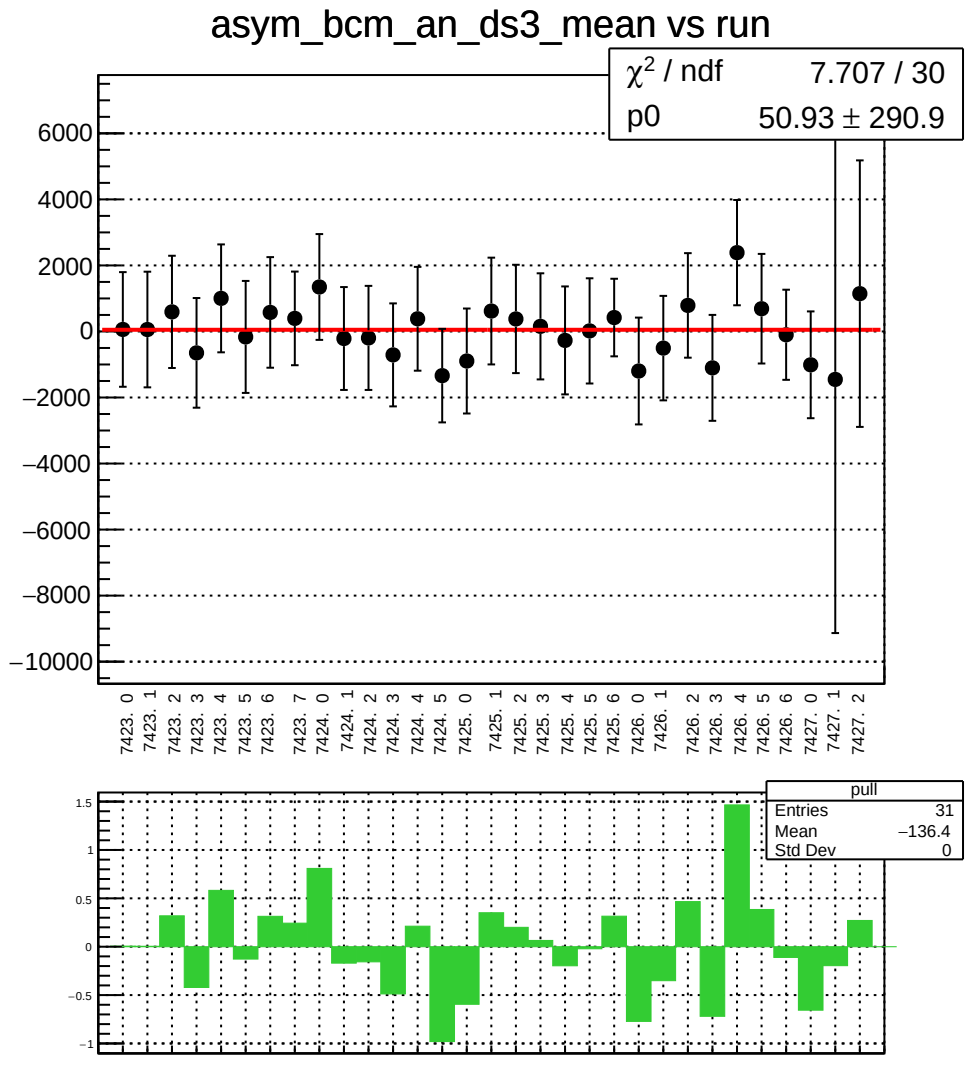

pull1D
Entries 31
Mean 0.125
Std Dev 0.9374
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

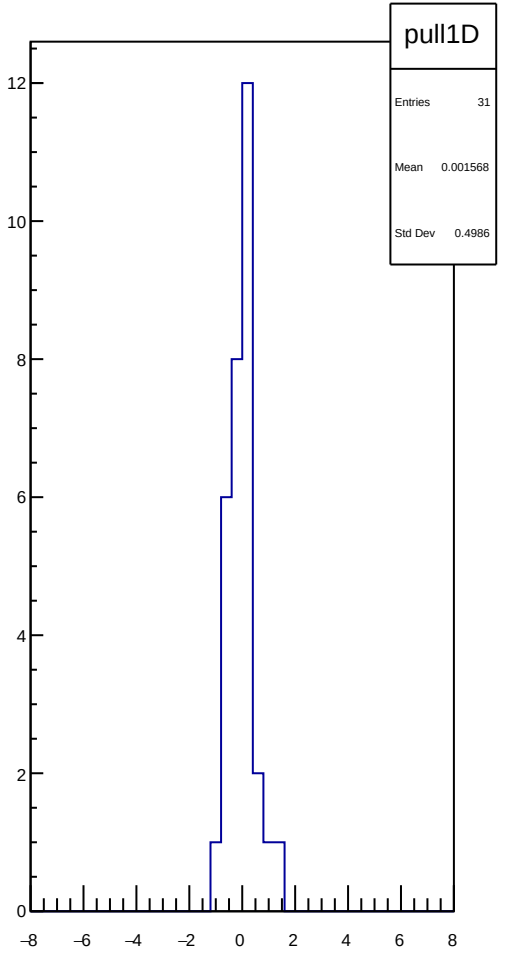

asym_bcm_an_diff_rms vs run
χ² / ndf 5.067e+04 / 22
p0 1.208e+04 ± 19.47
80000
70000
60000
50000
40000
30000
20000
10000
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

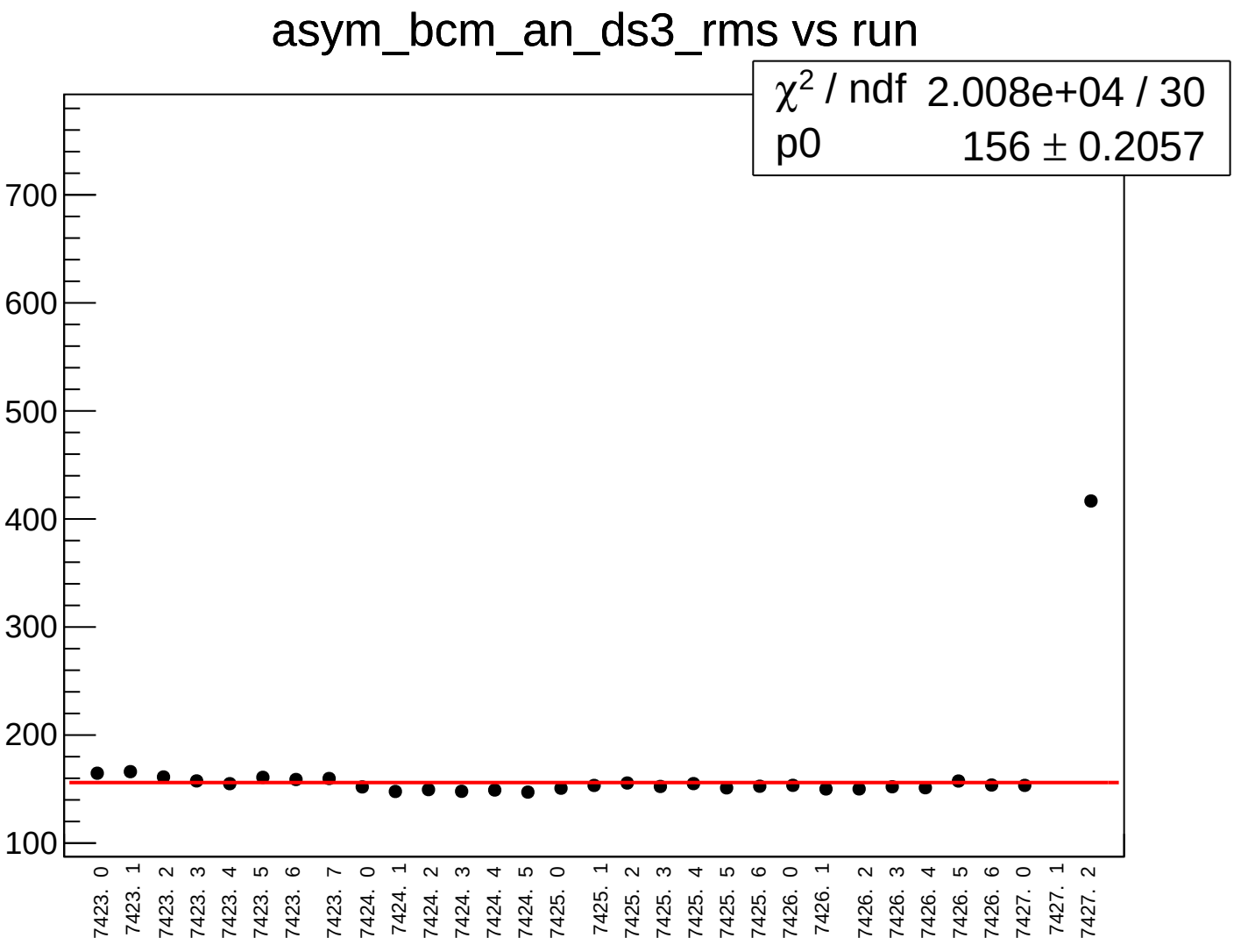

asym_bcm_an_ds_mean vs run
χ² / ndf 8.006 / 30
p0 17.84 ± 290.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −185.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

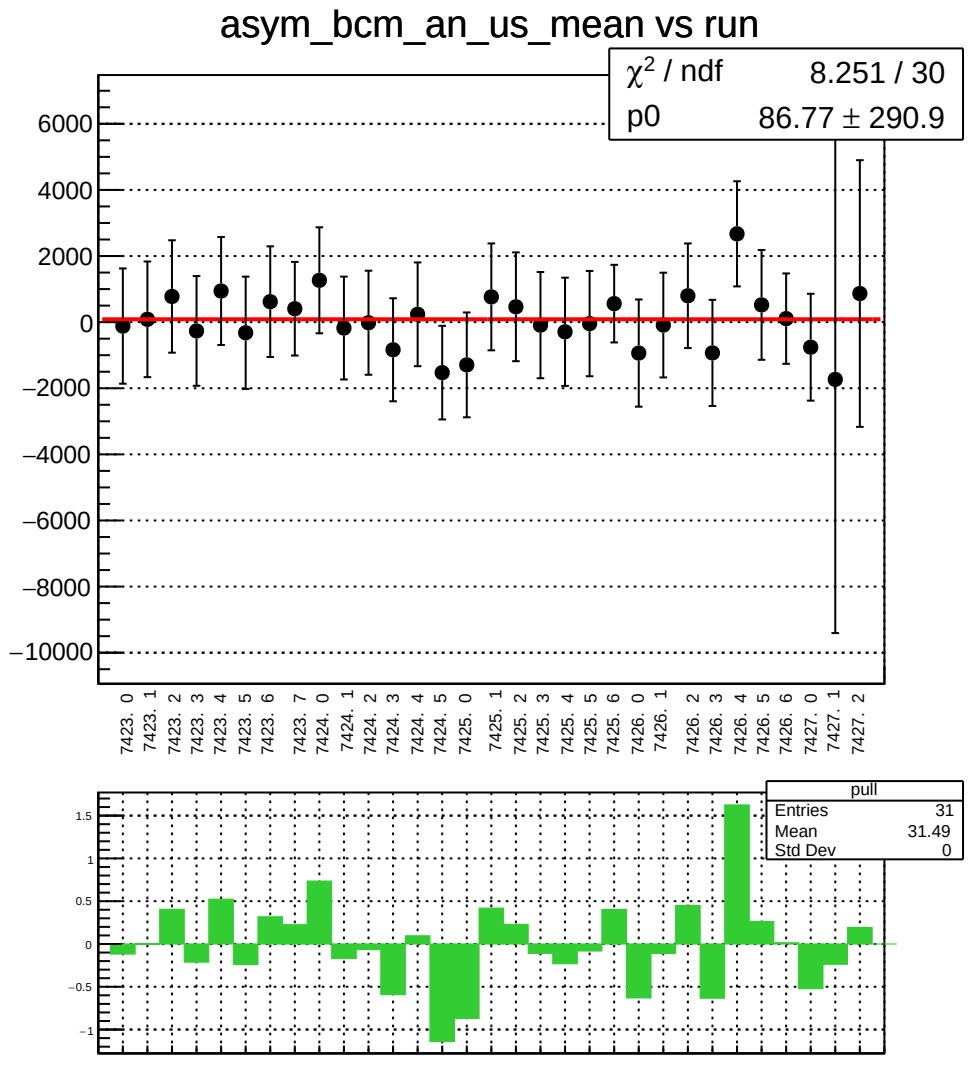

pull1D
Entries 31
Mean 0.001205
Std Dev 0.5082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

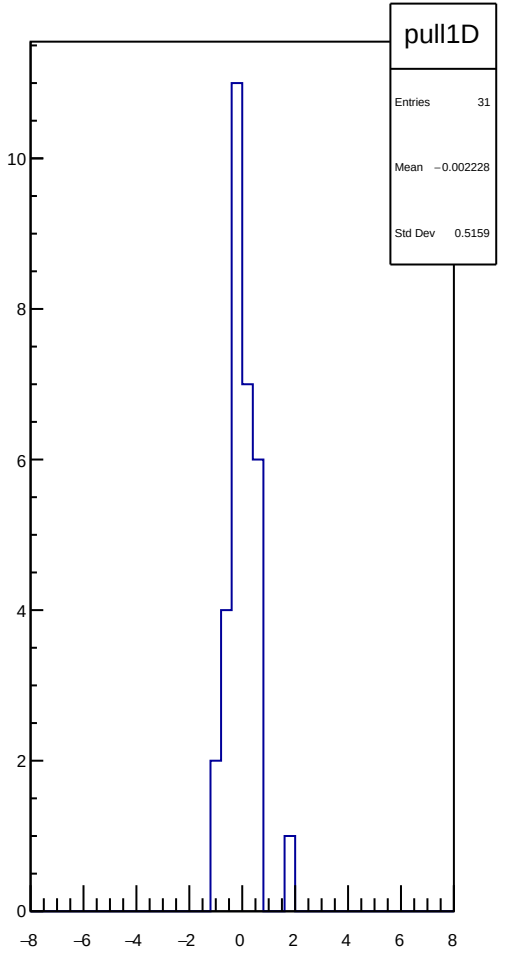

asym_bcm_an_ds_rms vs run
χ² / ndf 2.007e+04 / 30
p0 155.6 ± 0.2051
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

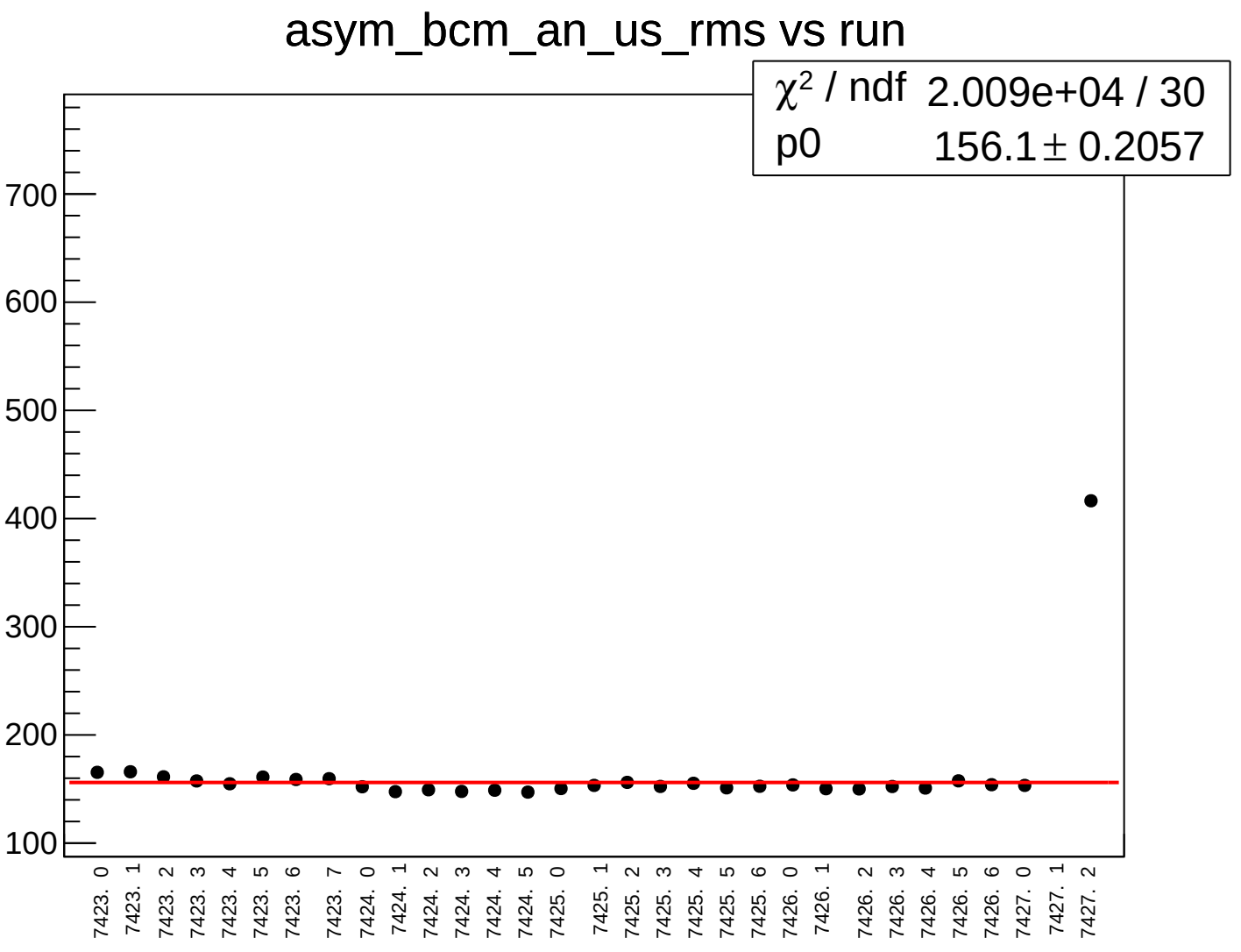

asym_bcm_an_ds3_mean vs run
χ² / ndf 7.707 / 30
p0 50.93 ± 290.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −136.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

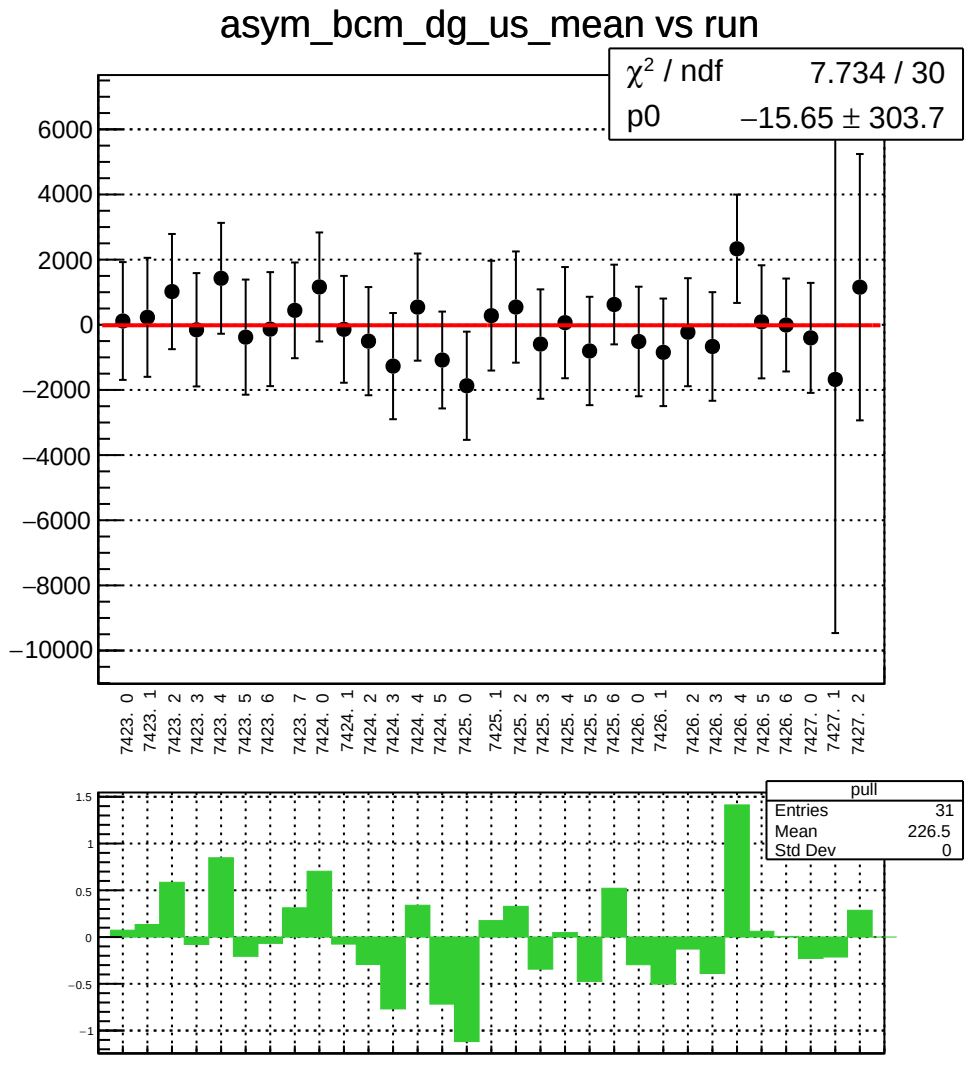

pull1D
Entries 31
Mean 0.001568
Std Dev 0.4986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

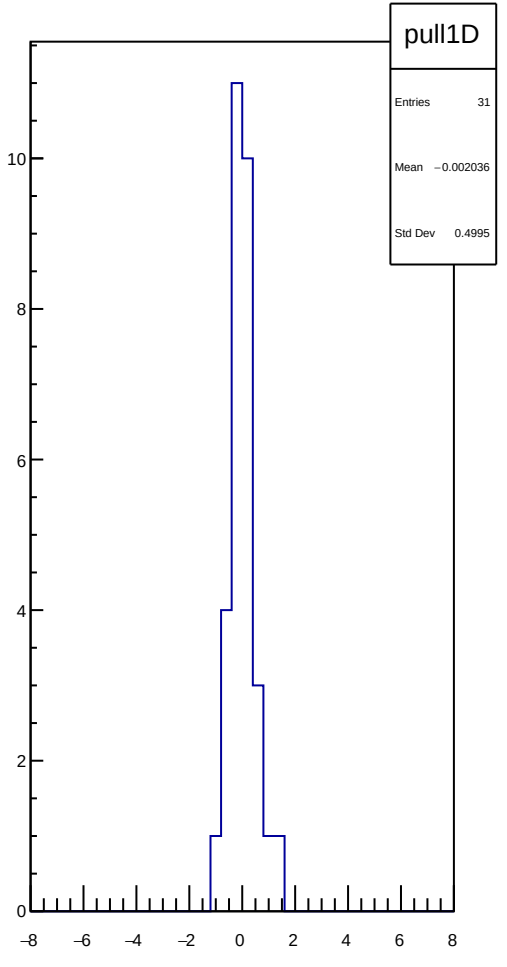

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.008e+04 / 30
p0 156 ± 0.2057
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

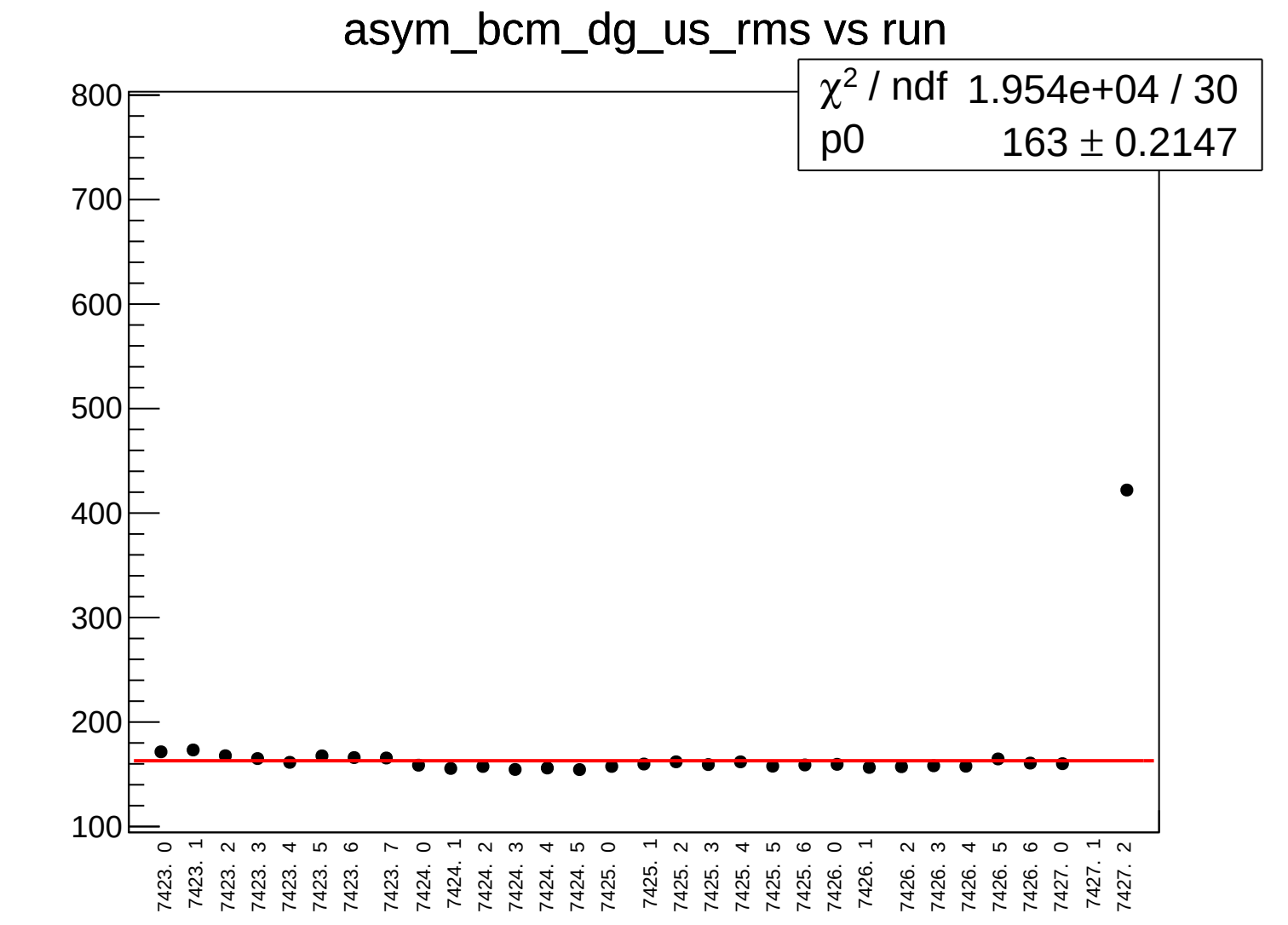

asym_bcm_an_us_mean vs run
χ² / ndf 8.251 / 30
p0 86.77 ± 290.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 31.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1

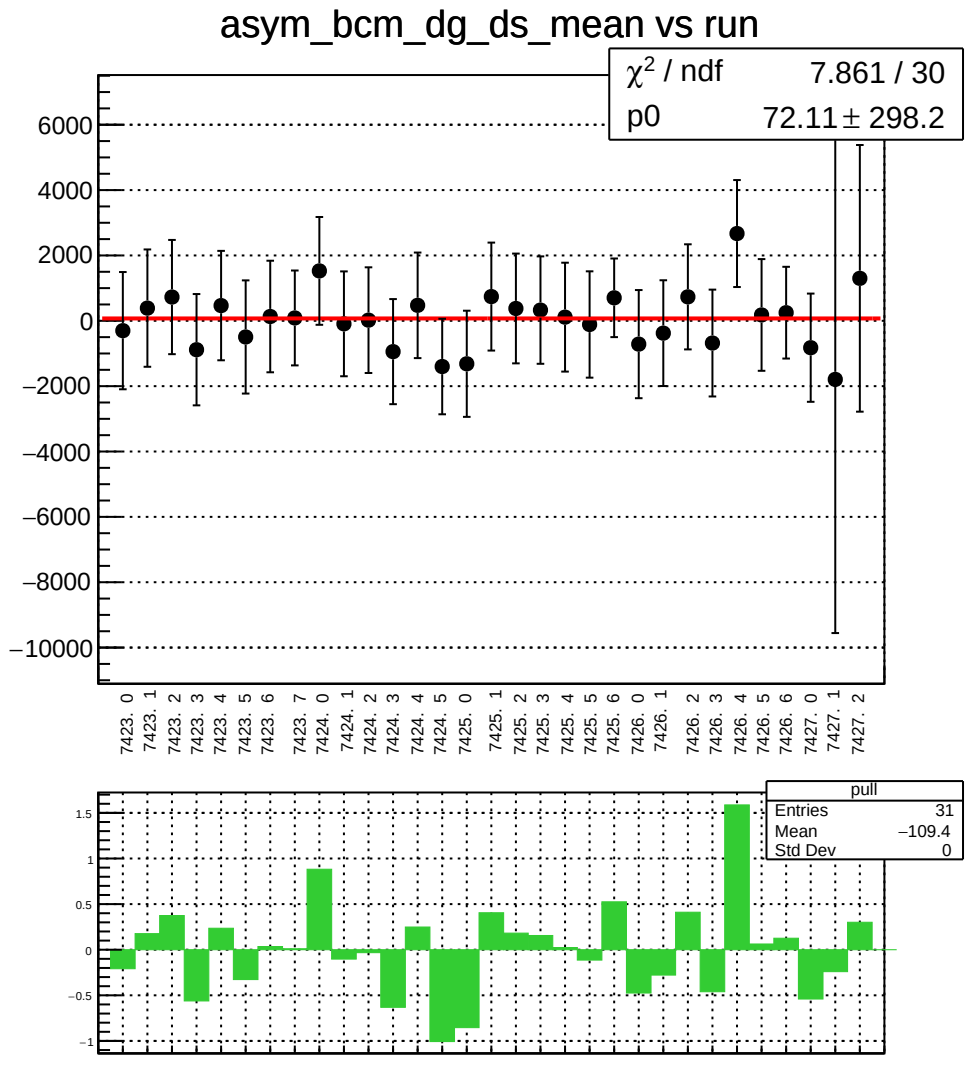

pull1D
Entries 31
Mean −0.002228
Std Dev 0.5159
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

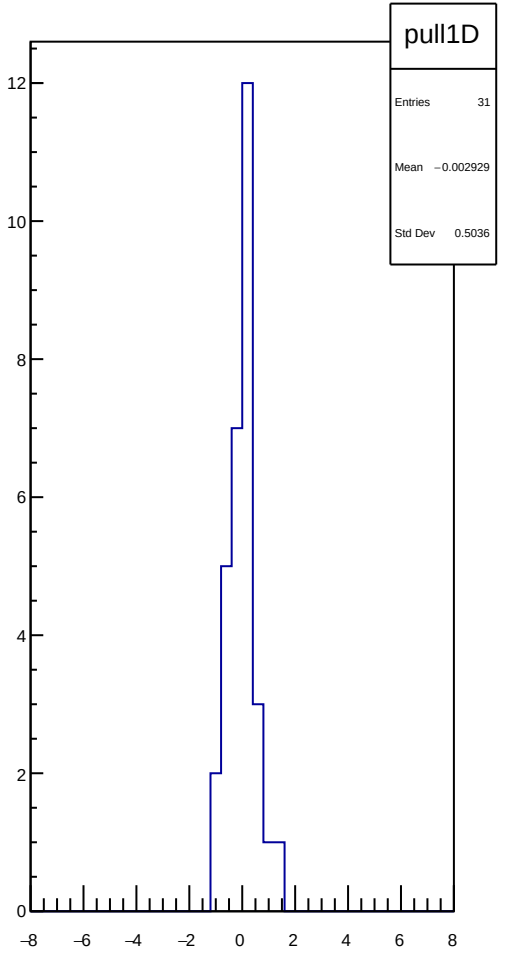

asym_bcm_an_us_rms vs run
χ² / ndf 2.009e+04 / 30
p0 156.1 ± 0.2057
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

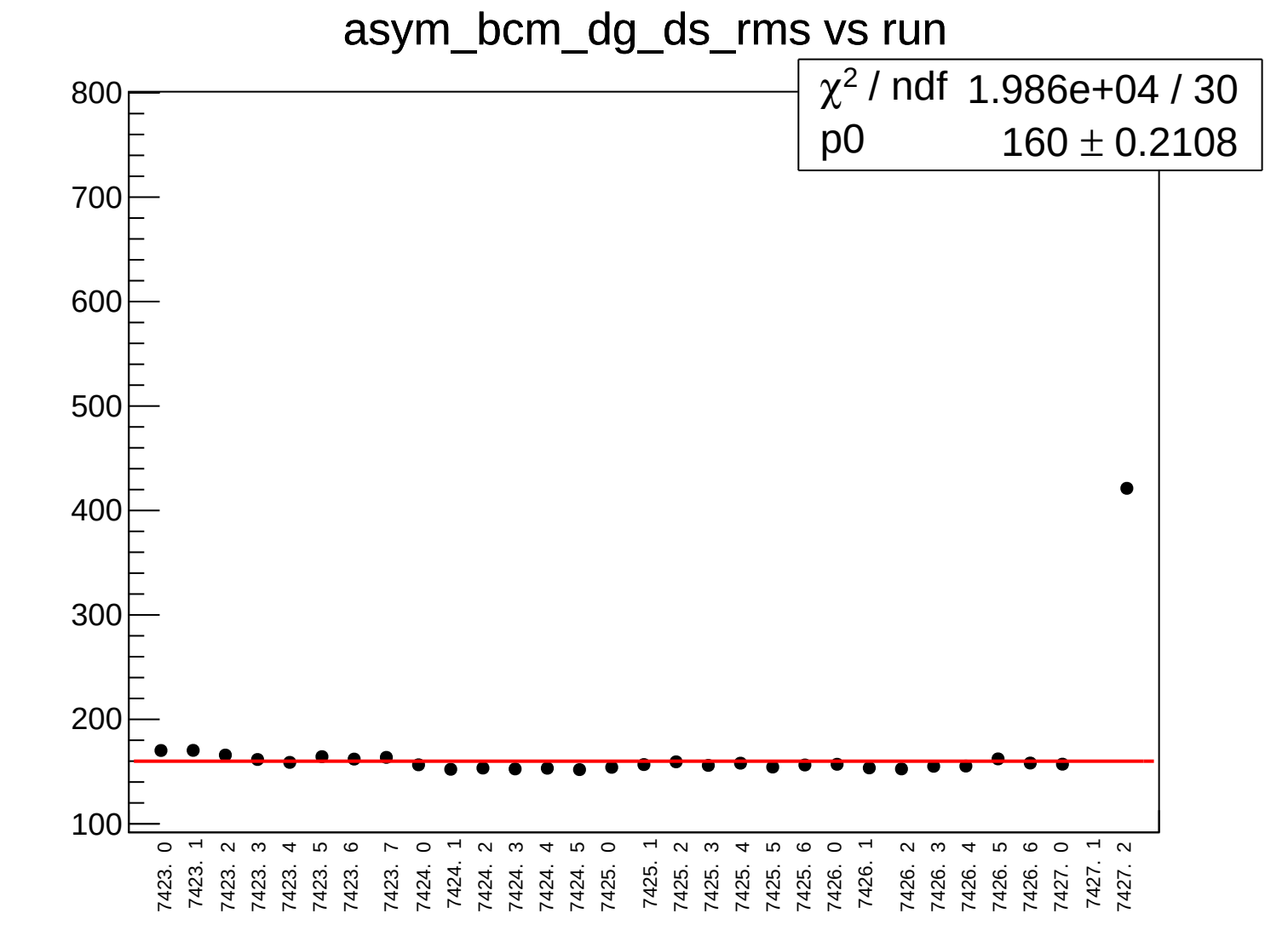

asym_bcm_dg_us_mean vs run
χ² / ndf 7.734 / 30
p0 −15.65 ± 303.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 226.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

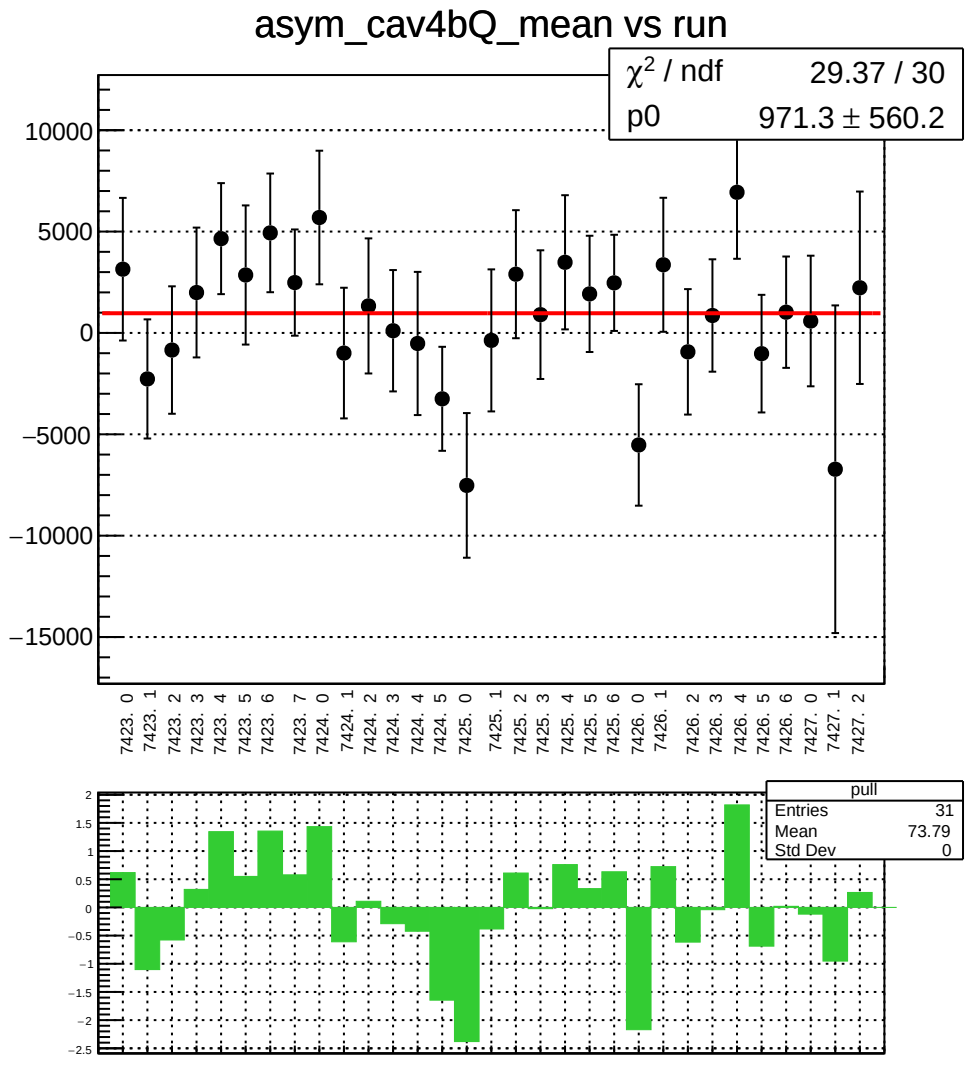

pull1D
Entries 31
Mean −0.002036
Std Dev 0.4995
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

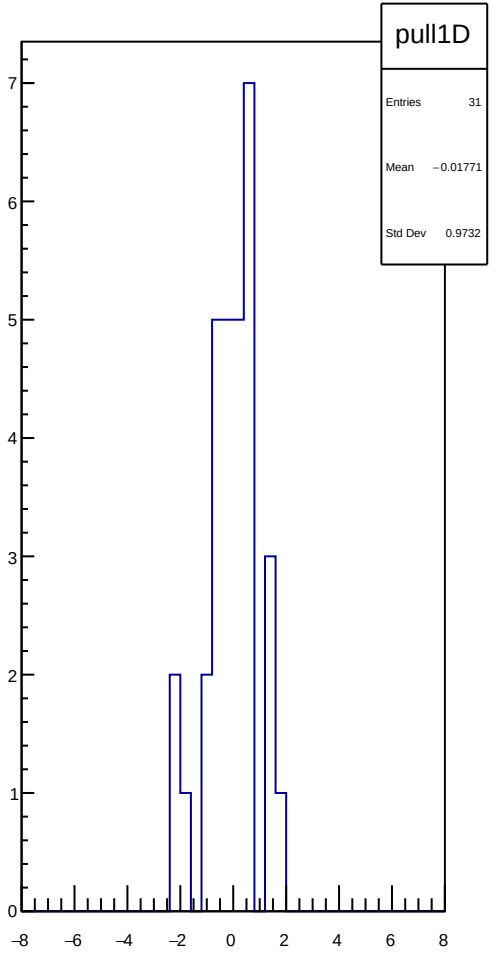

asym_bcm_dg_us_rms vs run
χ² / ndf 1.954e+04 / 30
p0 163 ± 0.2147
800
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

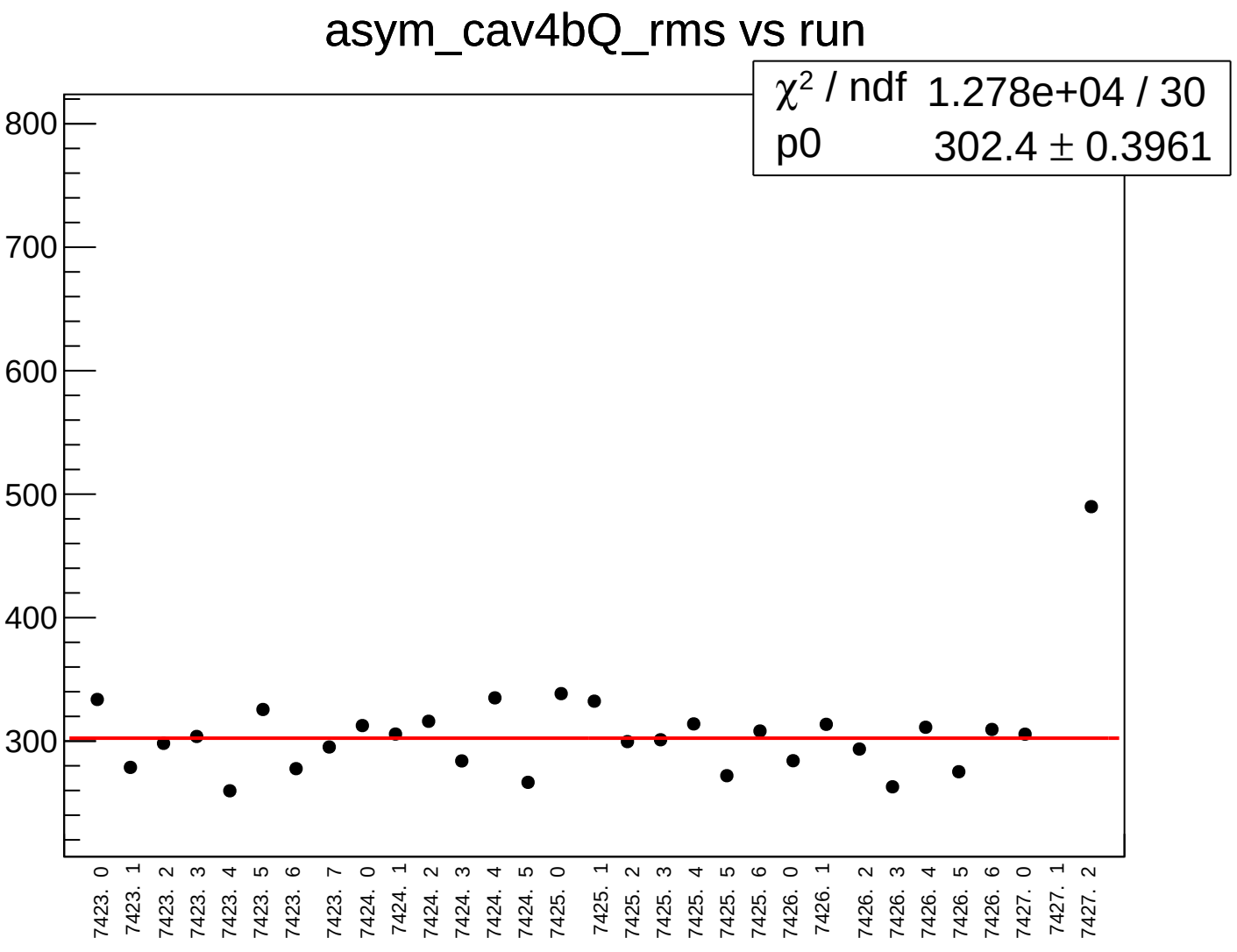

asym_bcm_dg_ds_mean vs run
χ² / ndf 7.861 / 30
p0 72.11 ± 298.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −109.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

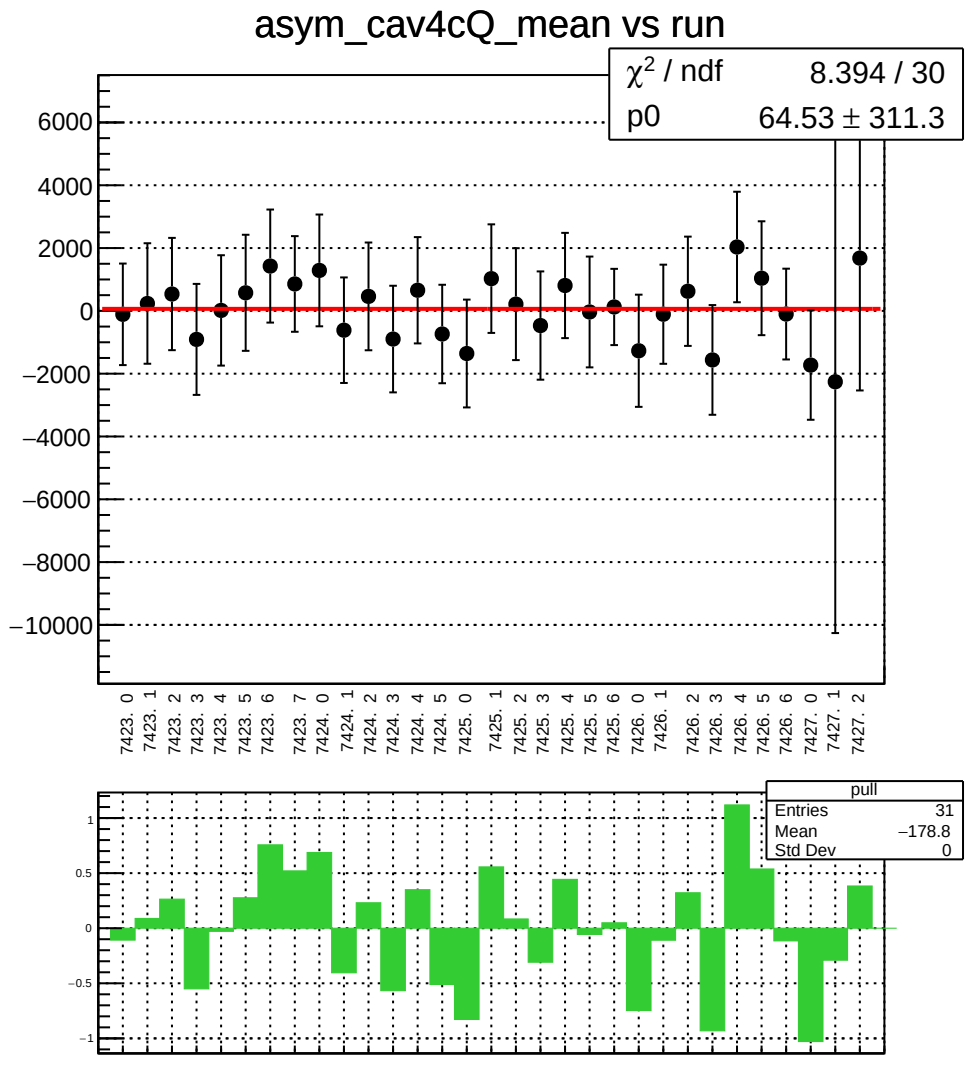

pull1D
Entries 31
Mean −0.002929
Std Dev 0.5036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

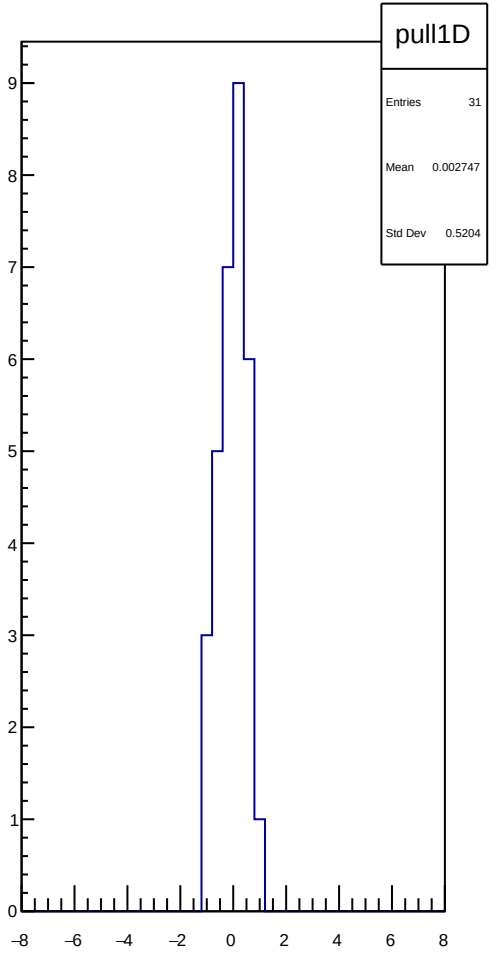

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.986e+04 / 30
p0 160 ± 0.2108
800
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

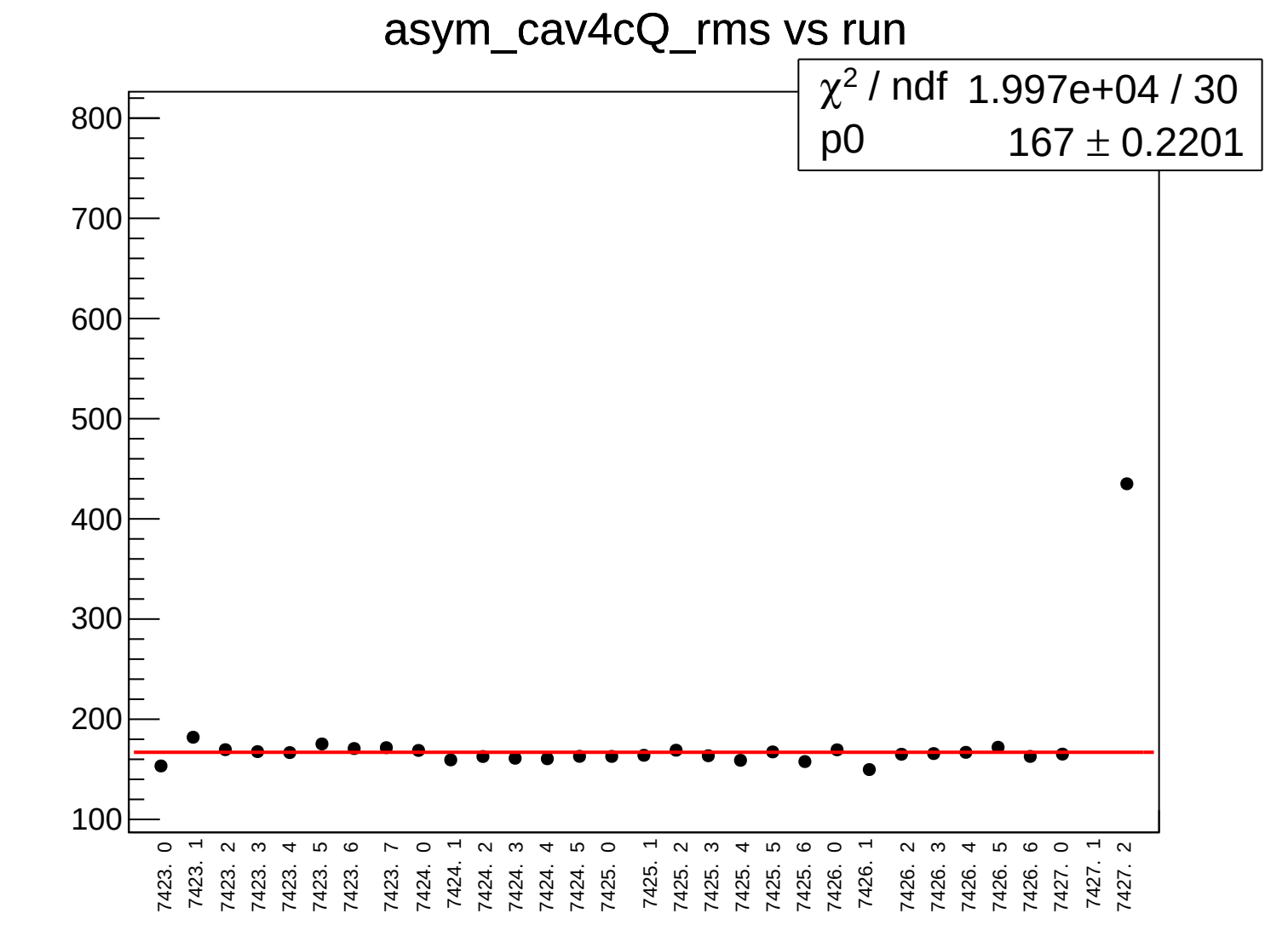

asym_cav4bQ_mean vs run
χ² / ndf 29.37 / 30
p0 971.3 ± 560.2
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 73.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

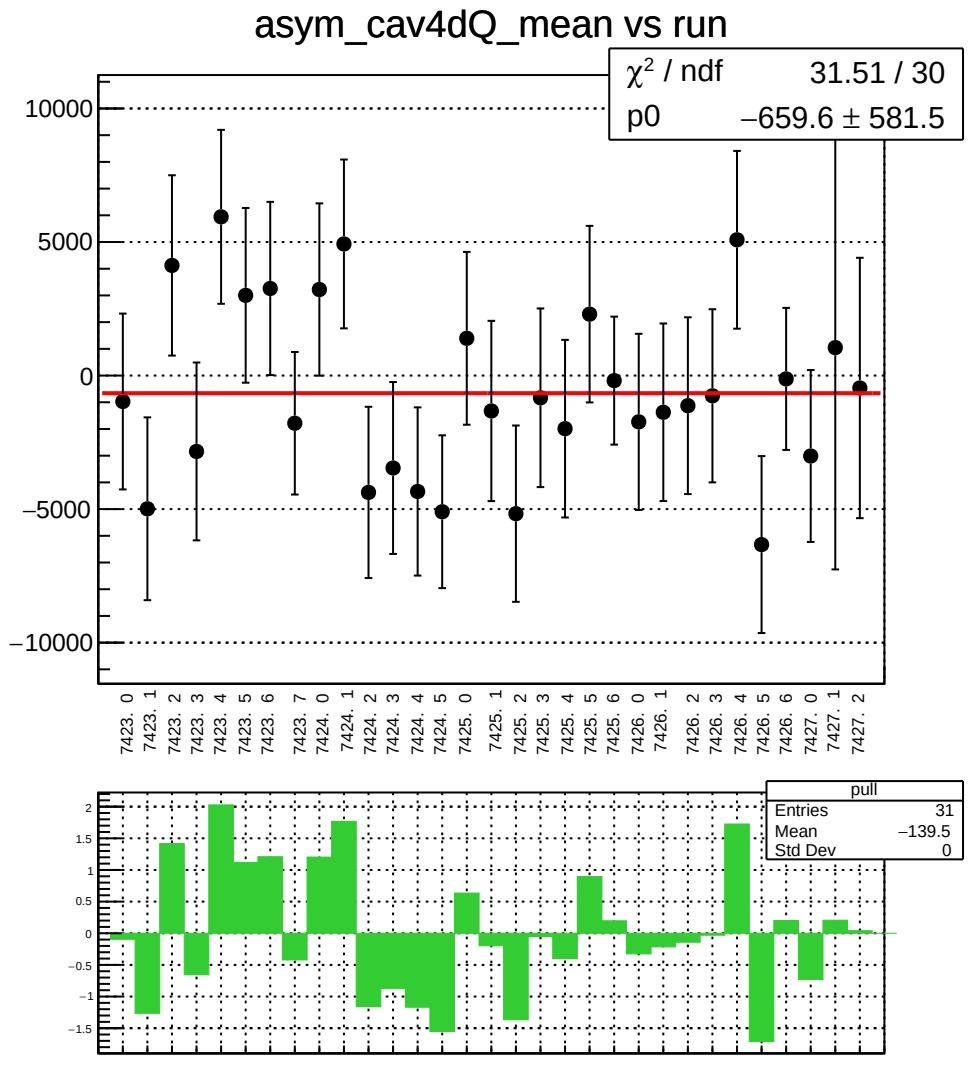

pull1D
Entries 31
Mean −0.01771
Std Dev 0.9732
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

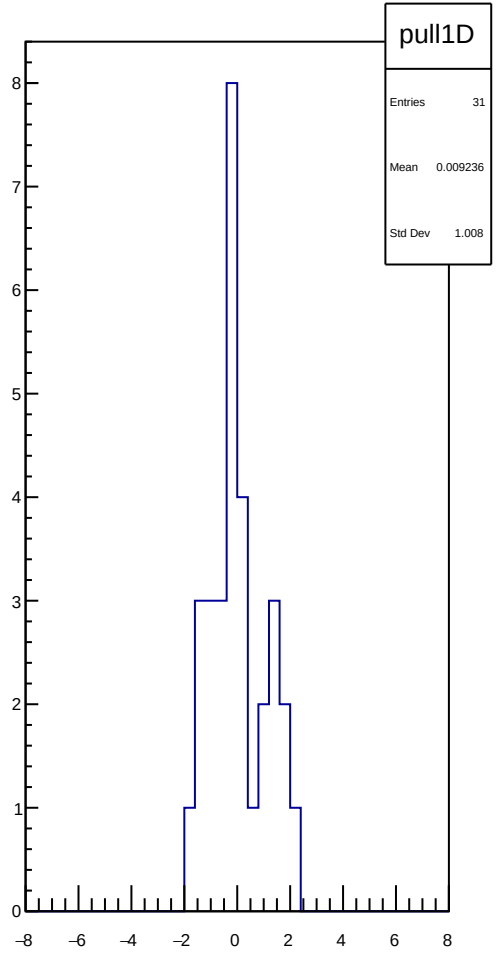

asym_cav4bQ_rms vs run
χ² / ndf 1.278e+04 / 30
p0 302.4 ± 0.3961
800
700
600
500
400
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

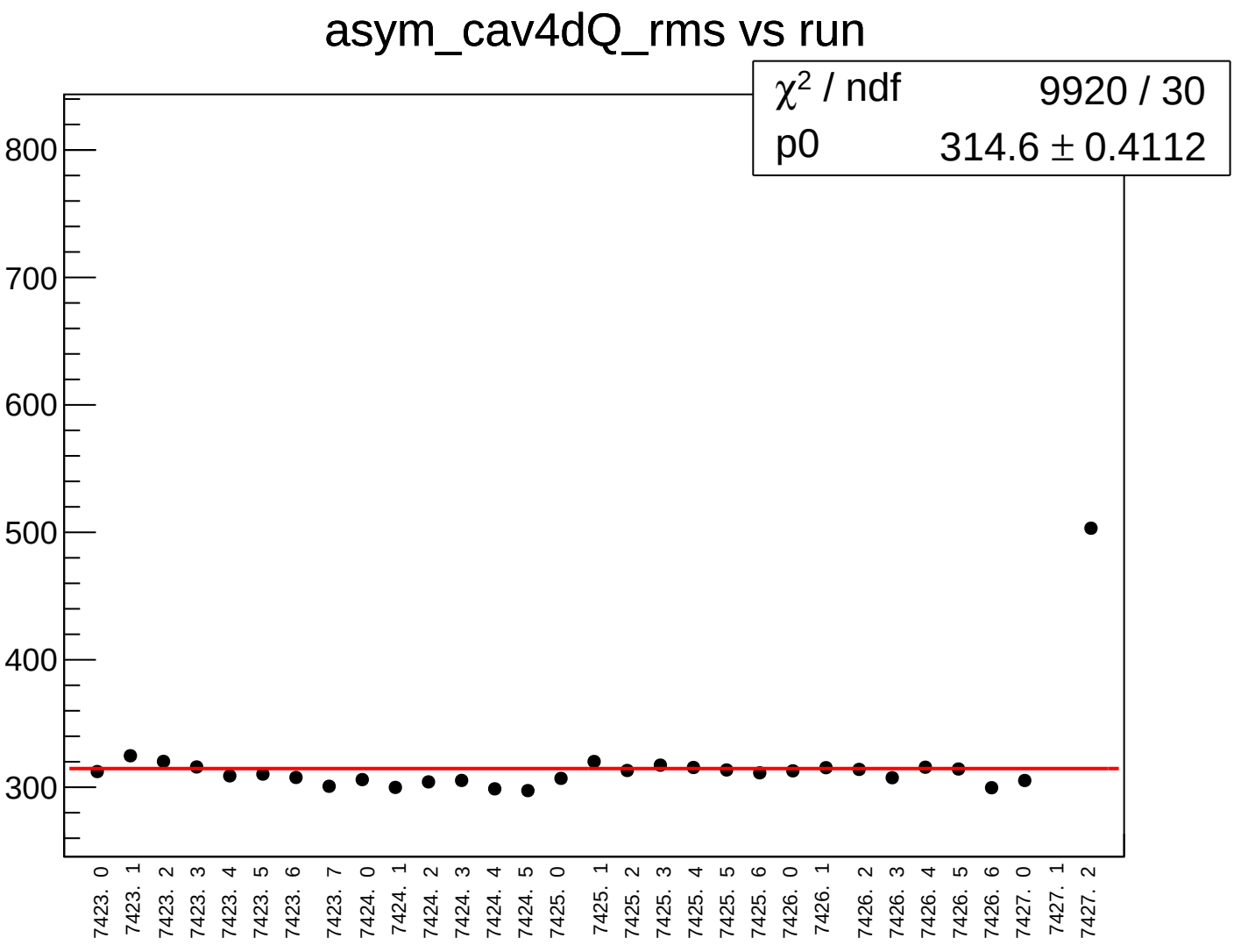

asym_cav4cQ_mean vs run
χ² / ndf 8.394 / 30
p0 64.53 ± 311.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −178.8
Std Dev 0
1
0.5
0
−0.5
−1

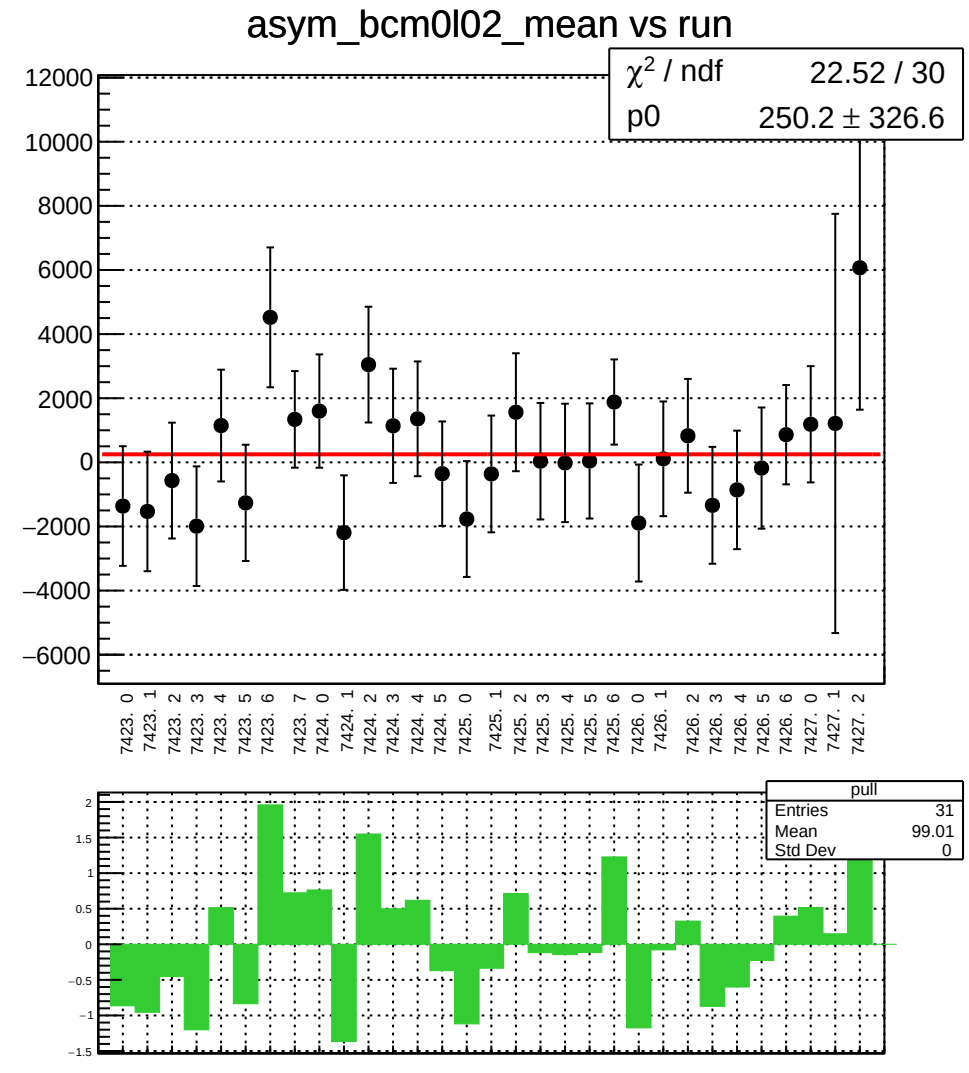

pull1D
Entries 31
Mean 0.002747
Std Dev 0.5204
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

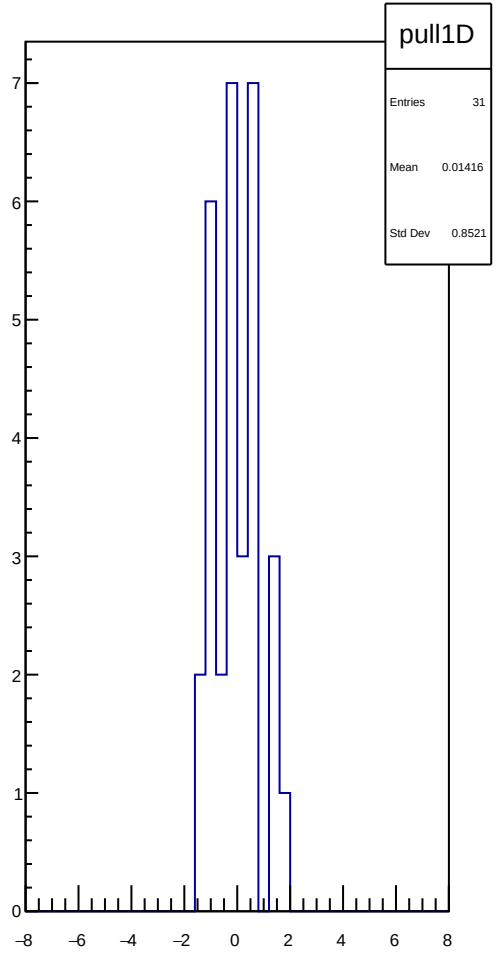

asym_cav4cQ_rms vs run
χ^2 / ndf 1.997e+04 / 30
p0 167 ± 0.2201
800
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

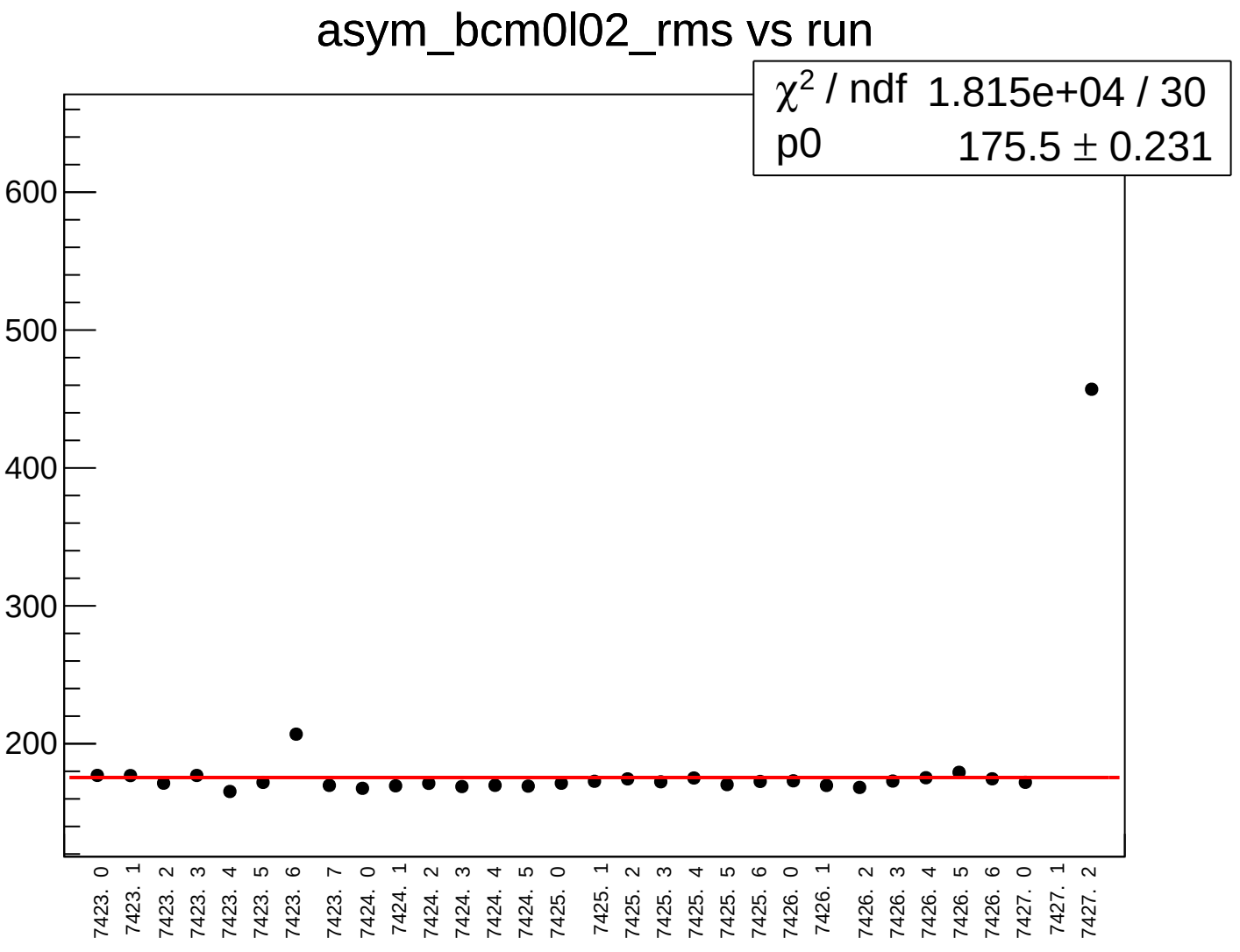

asym_cav4dQ_mean vs run
χ² / ndf 31.51 / 30
p0 −659.6 ± 581.5
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −139.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

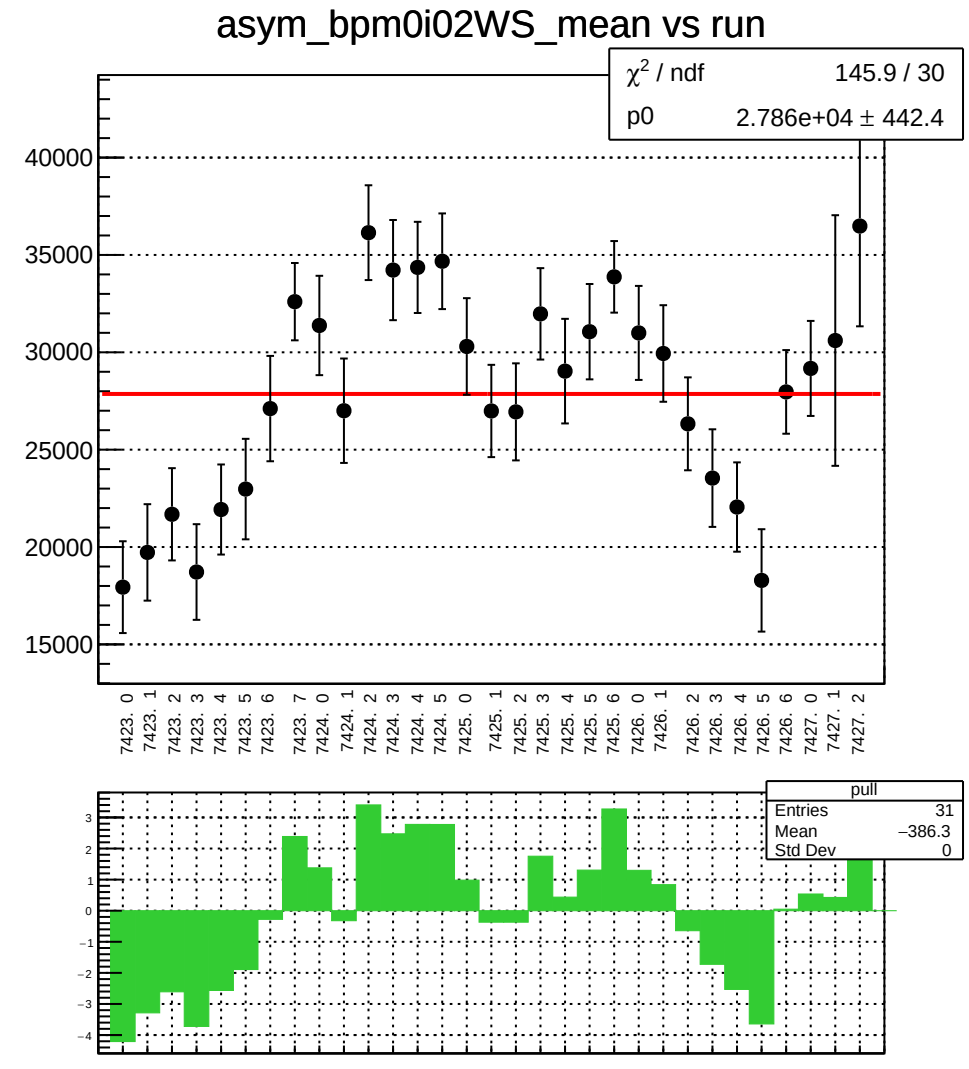

pull1D
Entries 31
Mean 0.009236
Std Dev 1.008
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

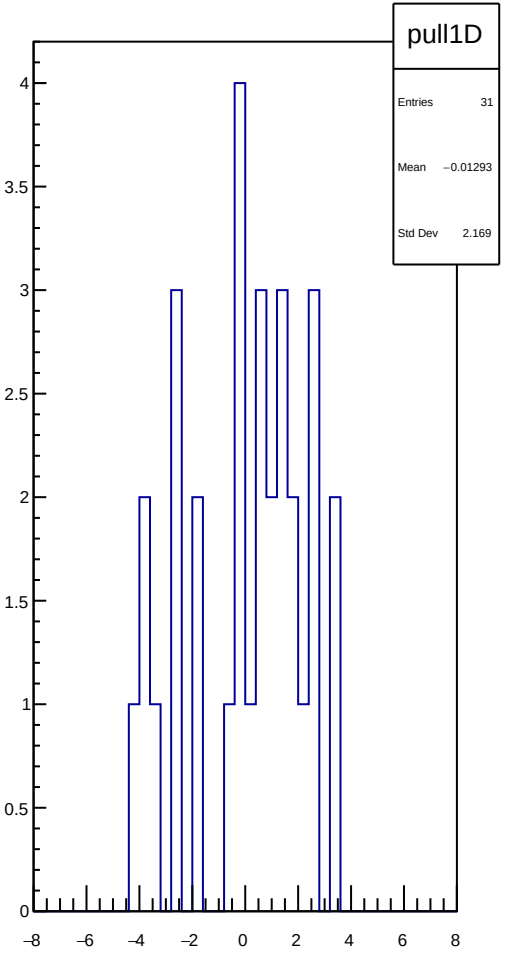

asym_cav4dQ_rms vs run
χ² / ndf 9920 / 30
p0 314.6 ± 0.4112
800
700
600
500
400
300
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

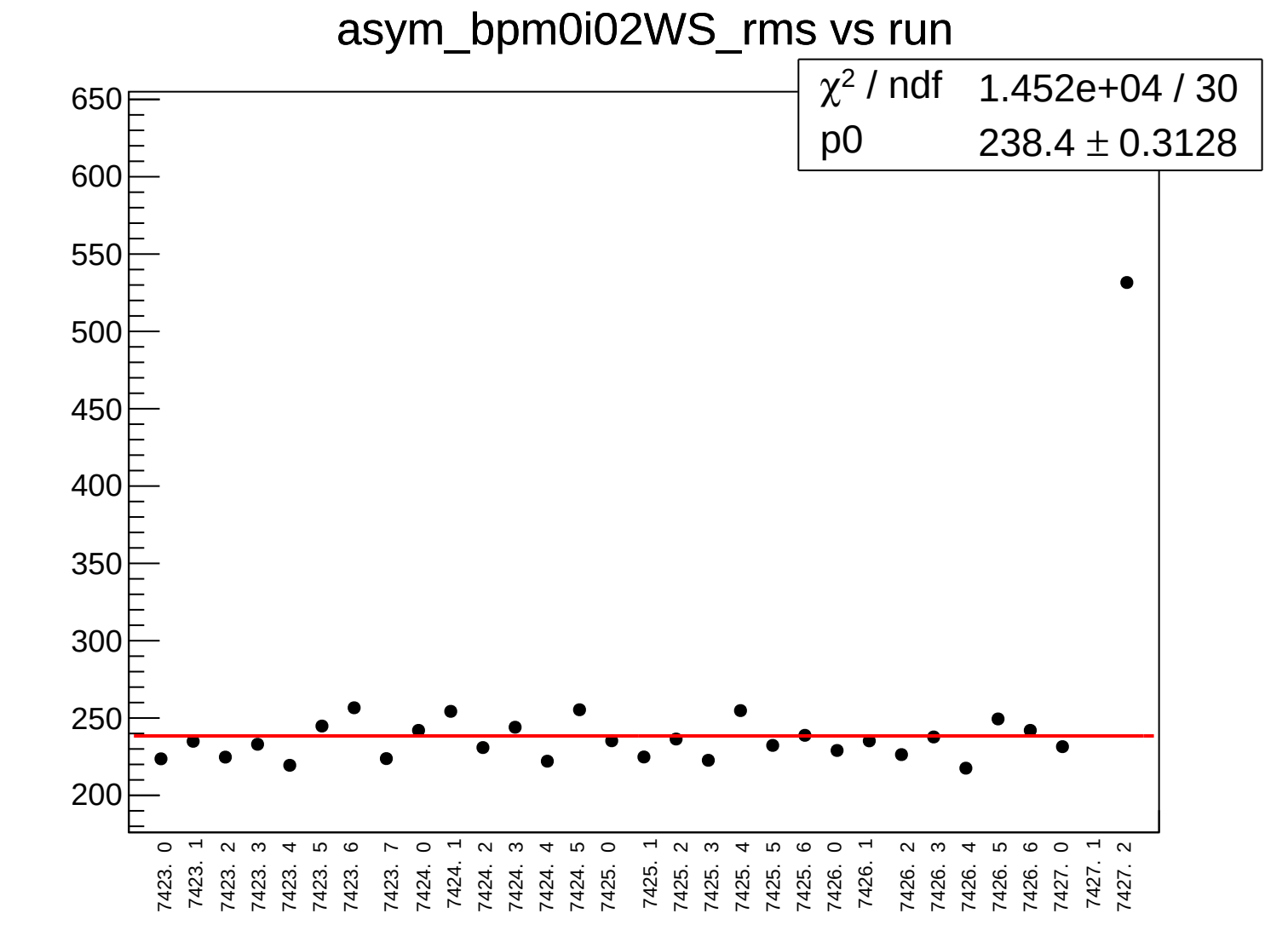

asym_bcm0l02_mean vs run
χ² / ndf 22.52 / 30
p0 250.2 ± 326.6
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 99.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

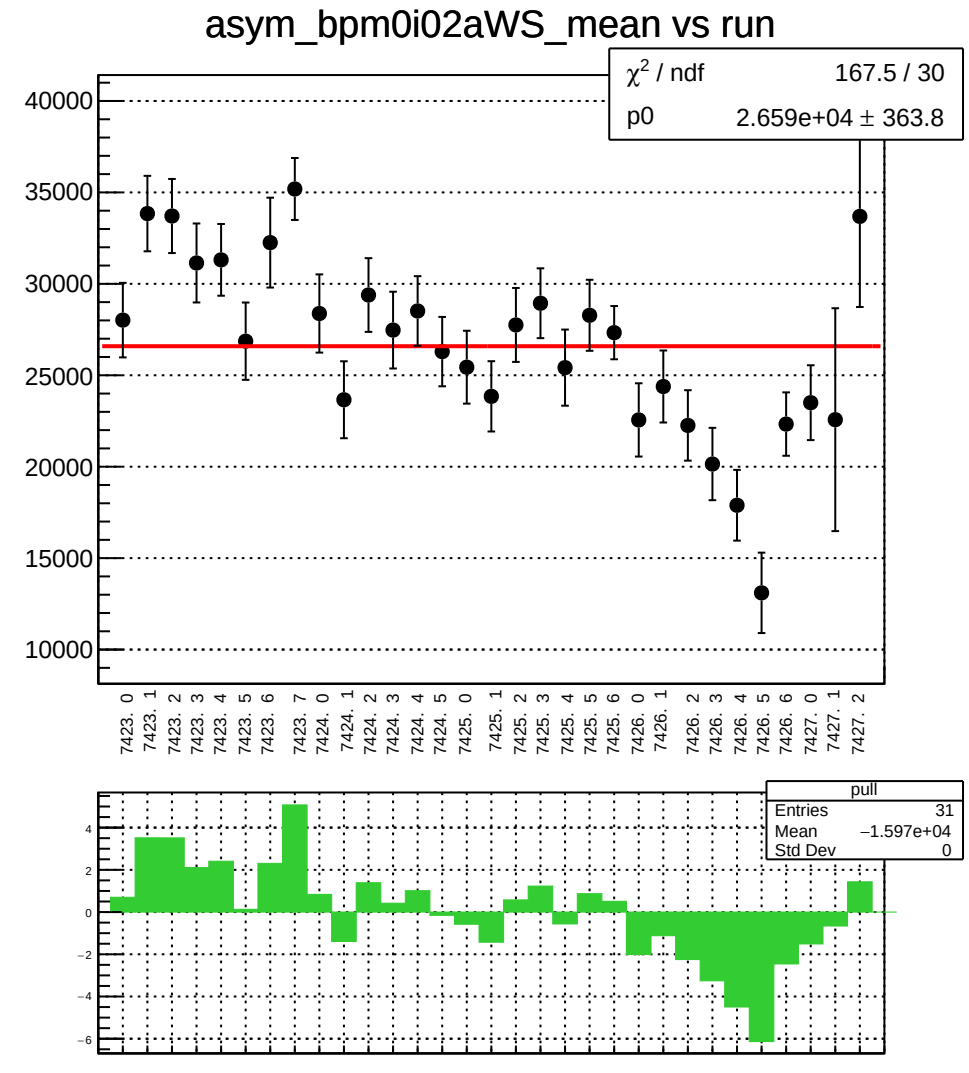

pull1D
Entries 31
Mean 0.01416
Std Dev 0.8521
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

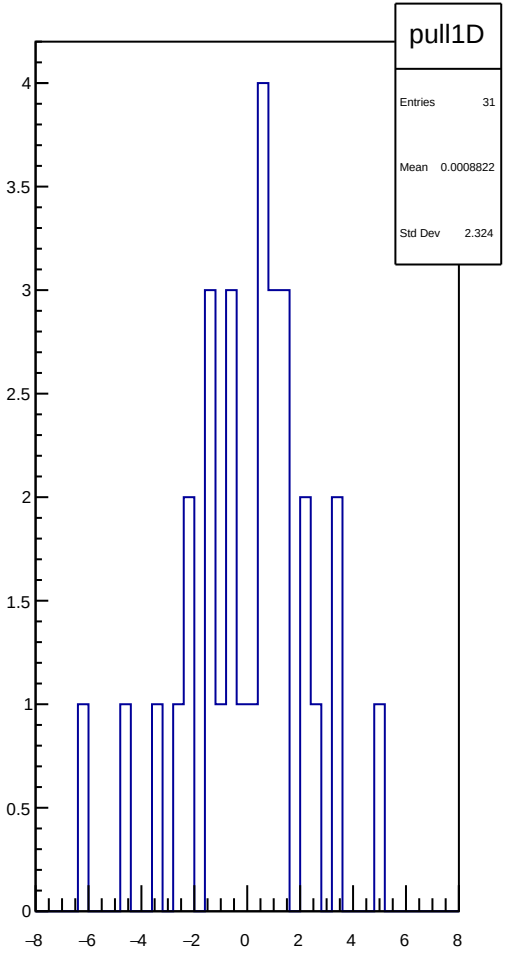

asym_bcm0l02_rms vs run
χ² / ndf 1.815e+04 / 30
p0 175.5 ± 0.231
600
500
400
300
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

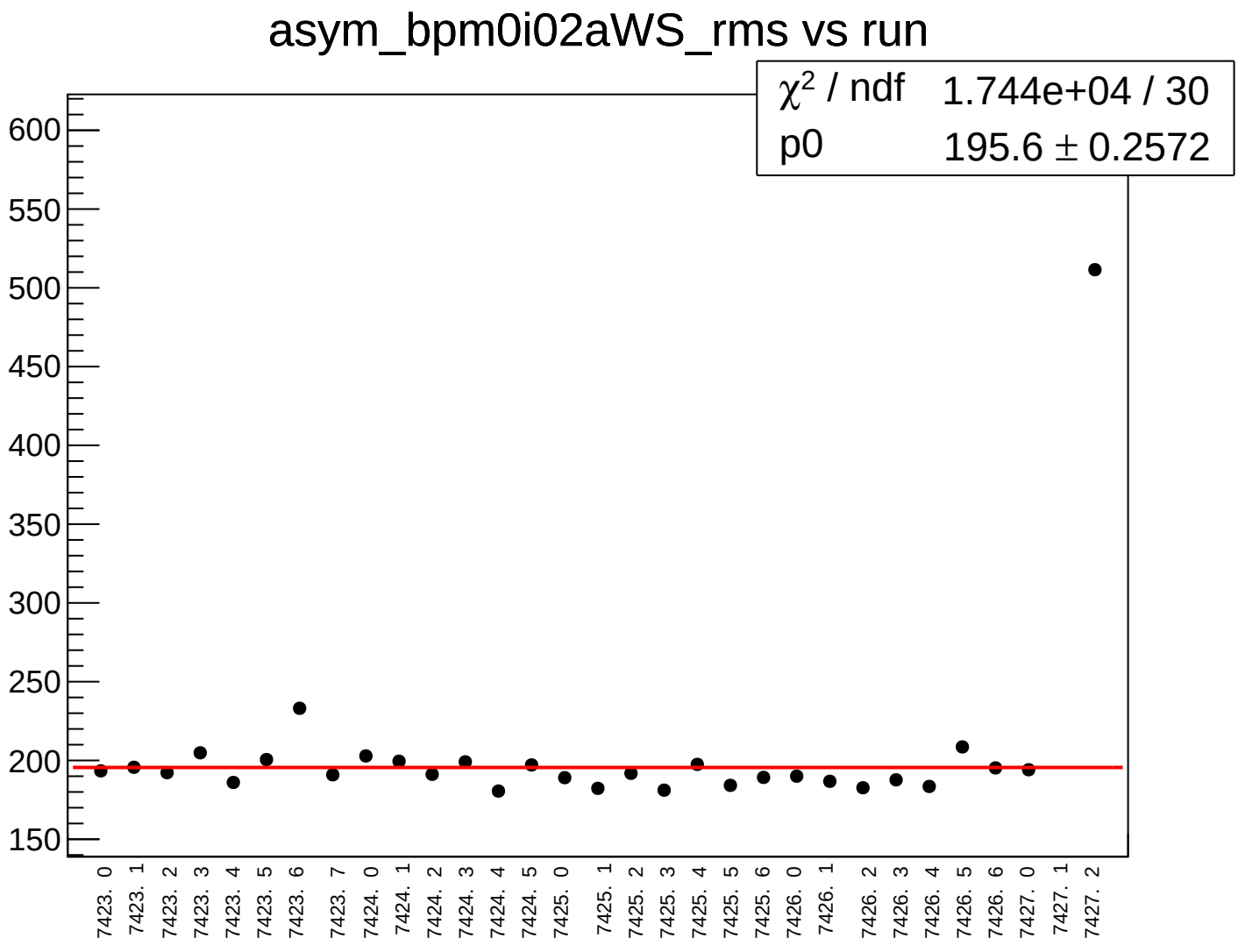

asym_bpm0i02WS_mean vs run
χ² / ndf 145.9 / 30
p0 2.786e+04 ± 442.4
40000
35000
30000
25000
20000
15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −386.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4

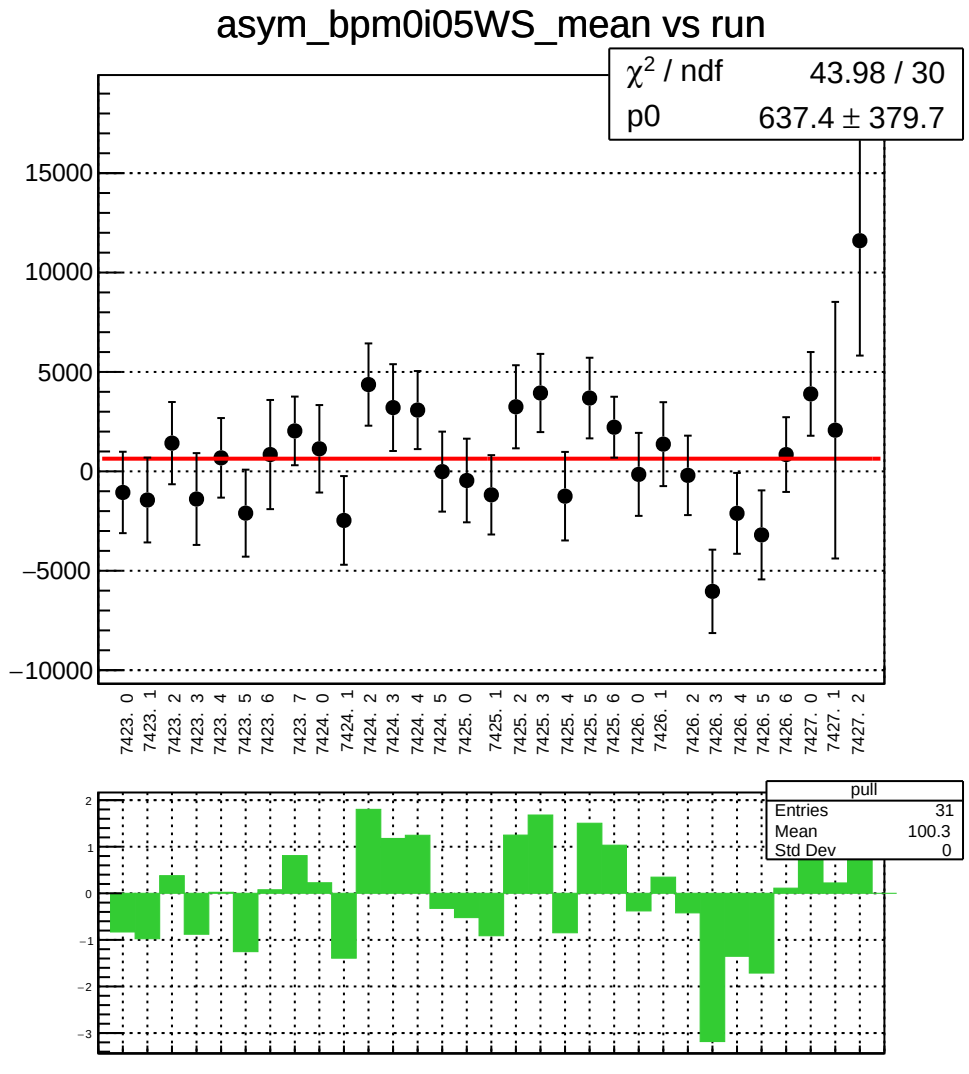

pull1D
Entries 31
Mean −0.01293
Std Dev 2.169
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

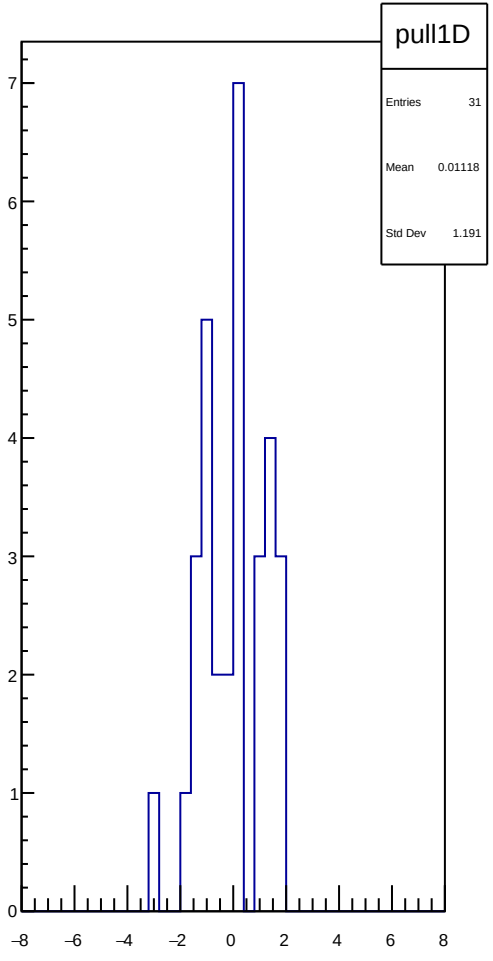

asym_bpm0i02WS_rms vs run
χ² / ndf 1.452e+04 / 30
p0 238.4 ± 0.3128
650
600
550
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

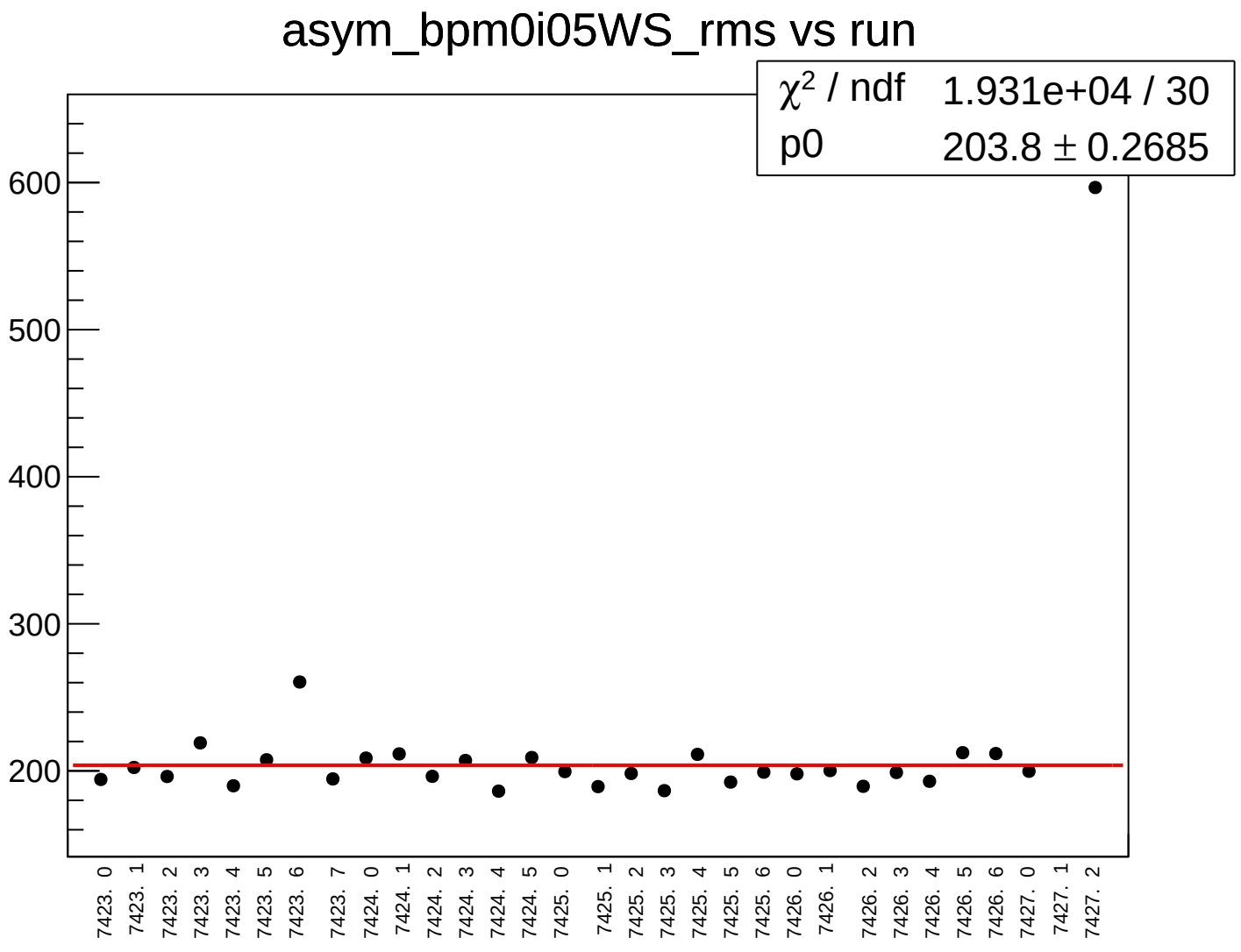

asym_bpm0i02aWS_mean vs run
χ² / ndf 167.5 / 30
p0 2.659e+04 ± 363.8
40000
35000
30000
25000
20000
15000
10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1.597e+04
Std Dev 0
4
2
0
−2
−4
−6

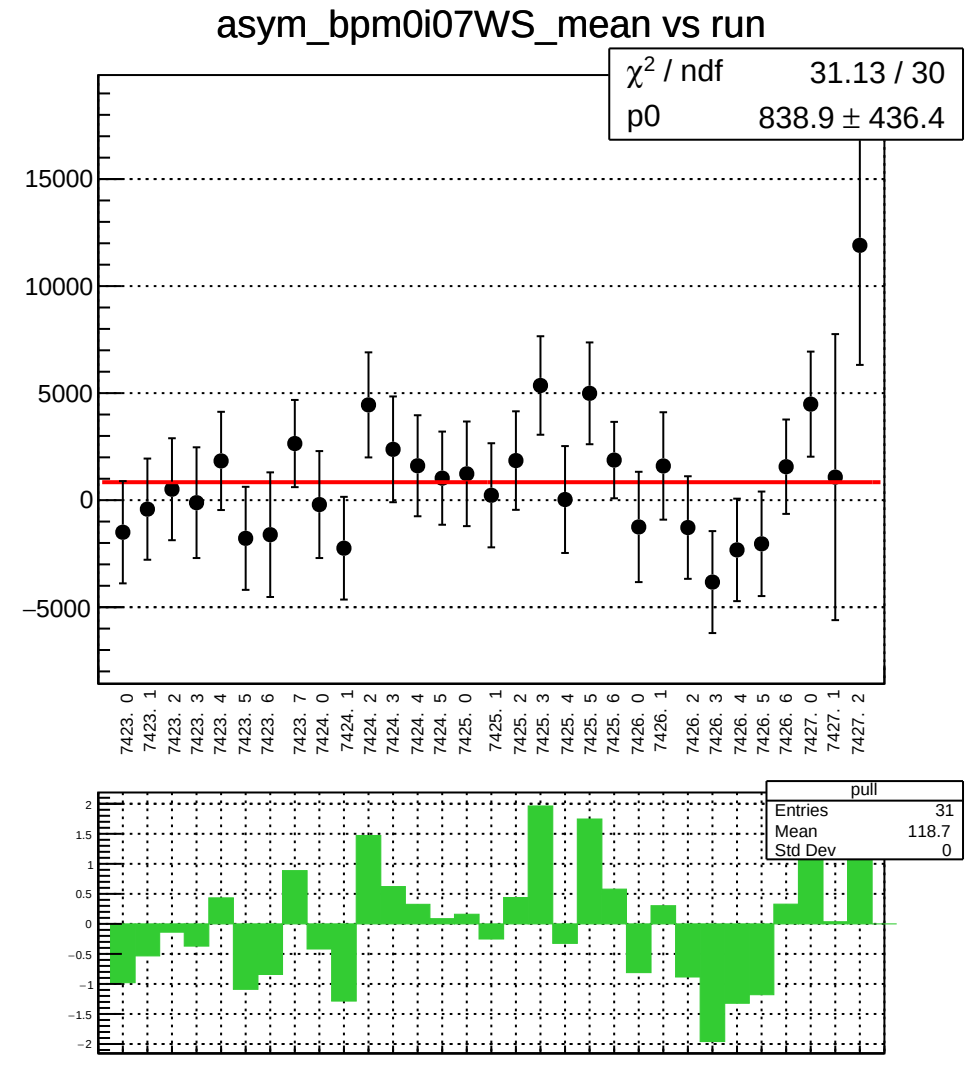

pull1D
Entries 31
Mean 0.0008822
Std Dev 2.324
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

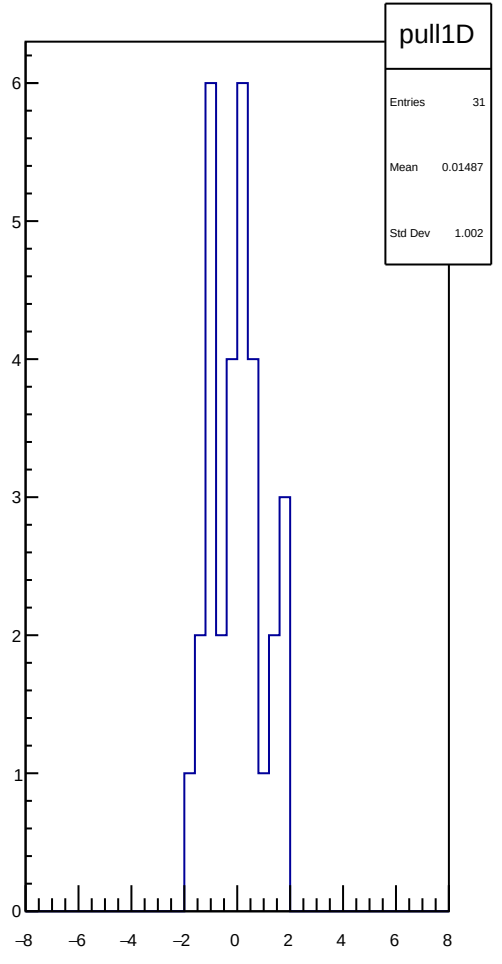

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.744e+04 / 30
p0 195.6 ± 0.2572
600
550
500
450
400
350
300
250
200
150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

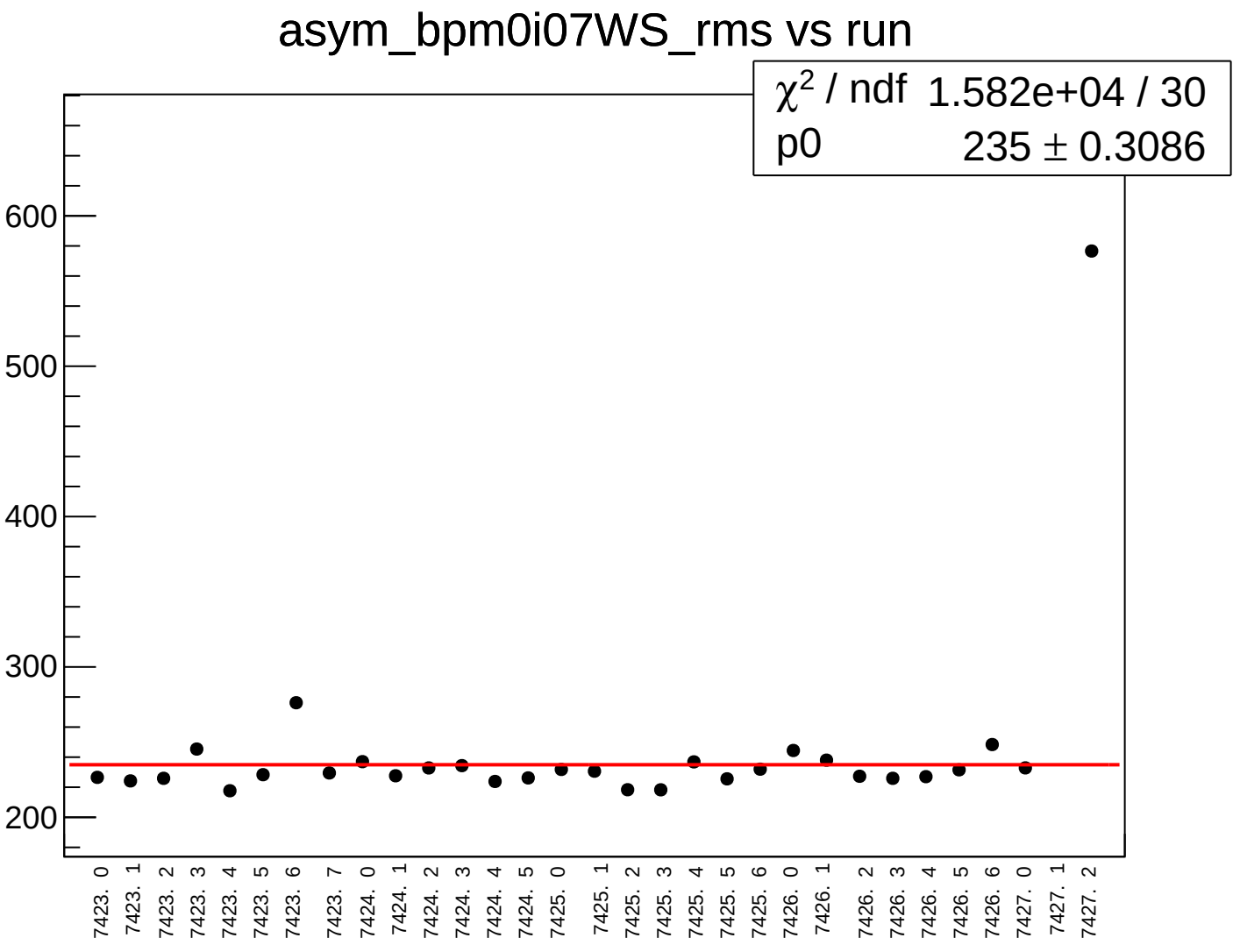

asym_bpm0i05WS_mean vs run
χ² / ndf 43.98 / 30
p0 637.4 ± 379.7
15000
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 100.3
Std Dev 0
2
1
0
−1
−2
−3

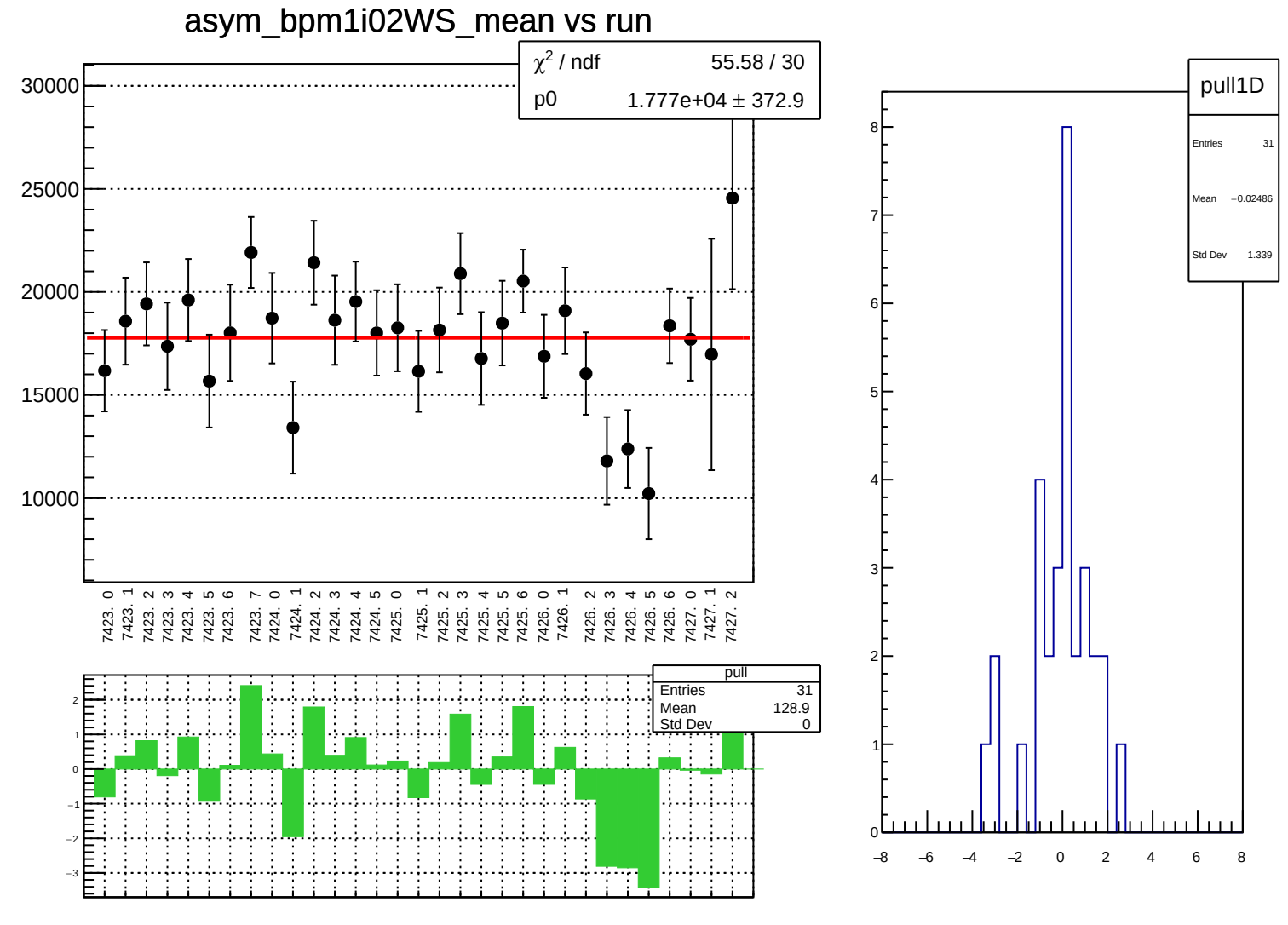

pull1D
Entries 31
Mean 0.01118
Std Dev 1.191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

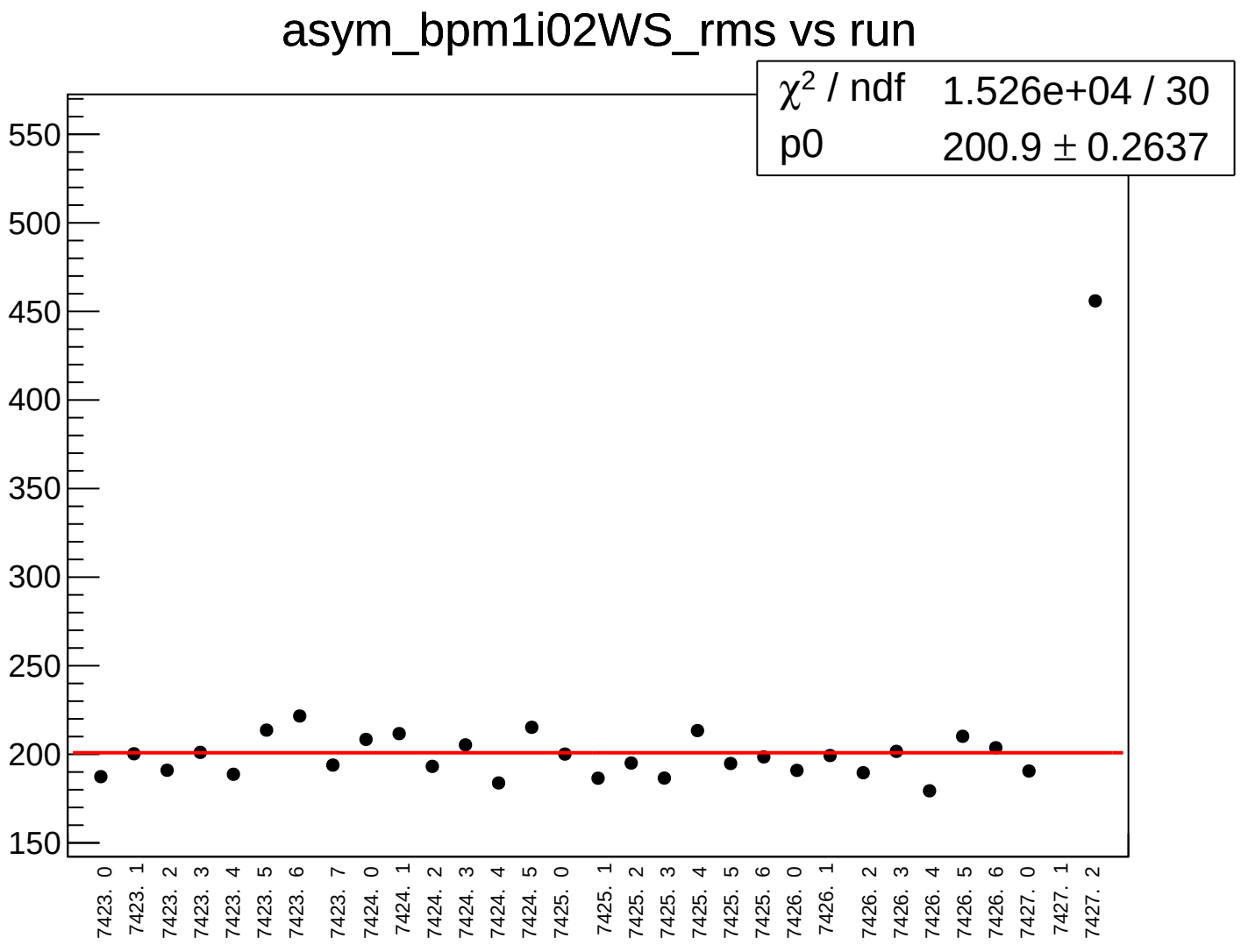

asym_bpm0i05WS_rms vs run
χ² / ndf 1.931e+04 / 30
p0 203.8 ± 0.2685
600
500
400
300
200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

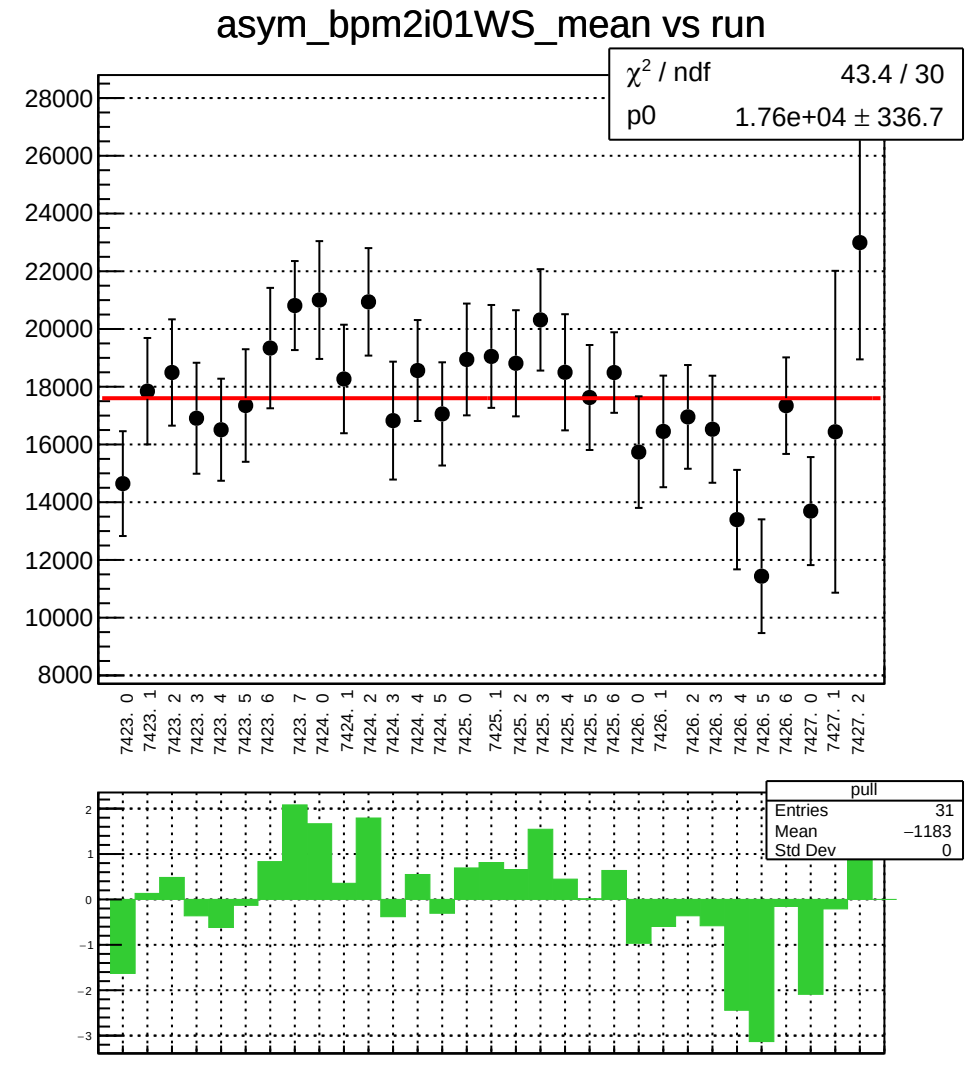

asym_bpm0i07WS_mean vs run
χ² / ndf 31.13 / 30
p0 838.9 ± 436.4
15000
10000
5000
0
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 118.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

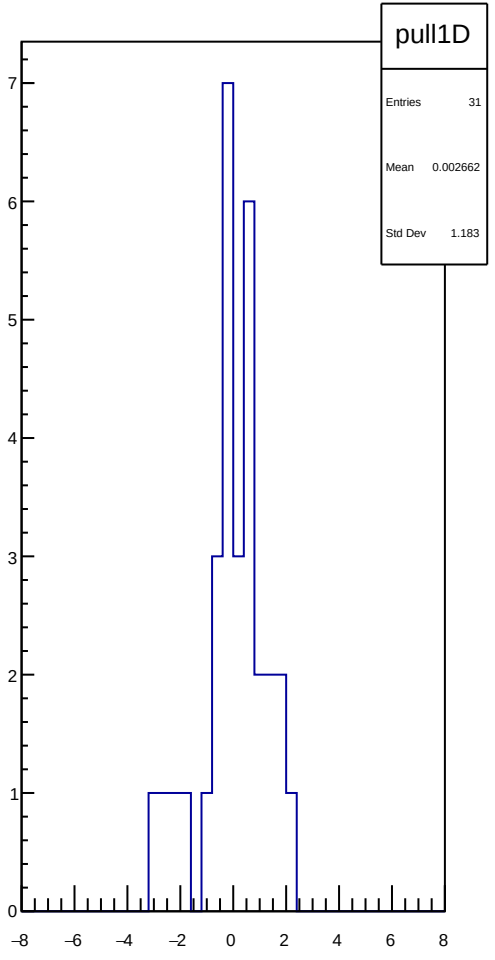

pull1D
Entries 31
Mean 0.01487
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

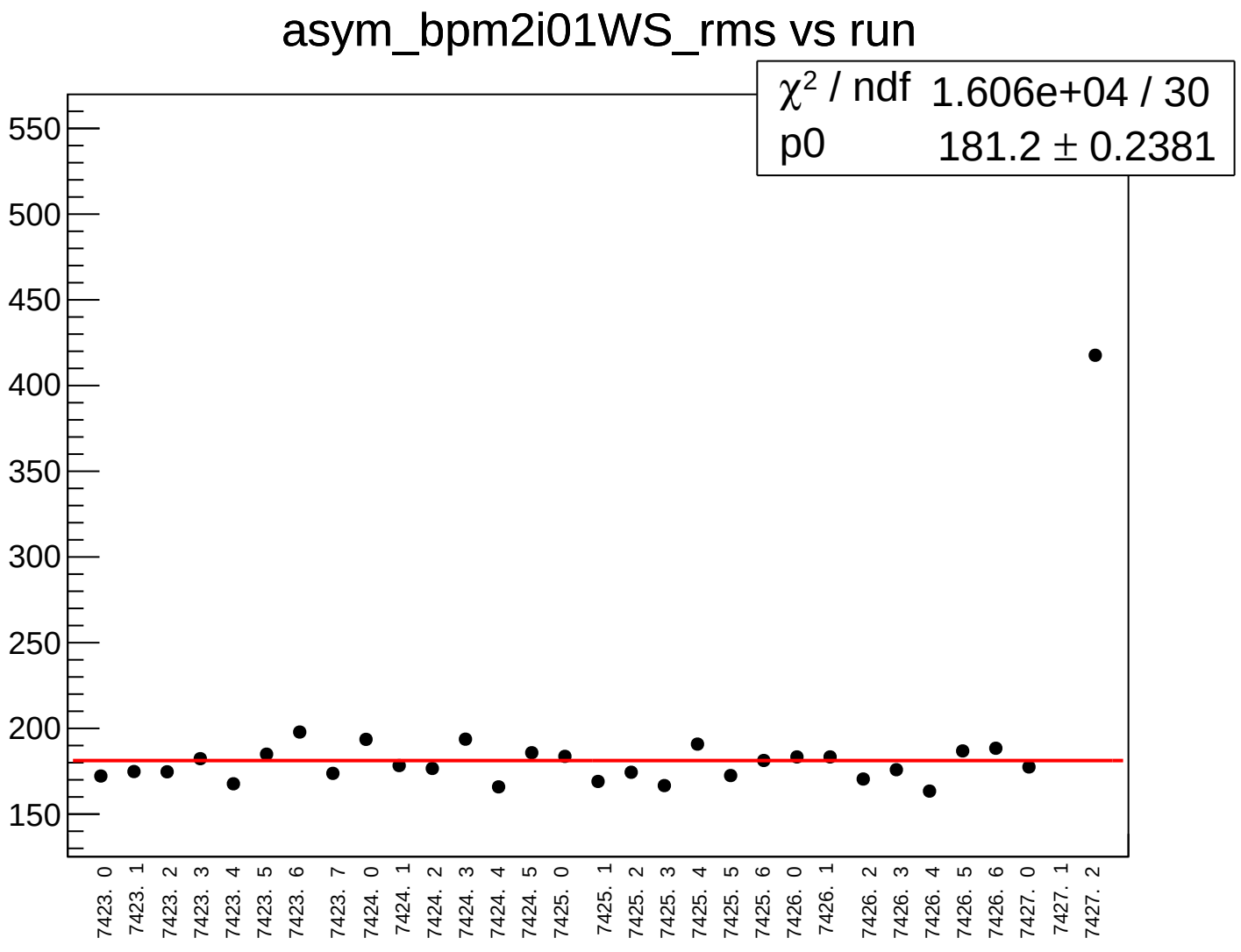

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.582e+04 / 30
p0 235 ± 0.3086
600
500
400
300
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

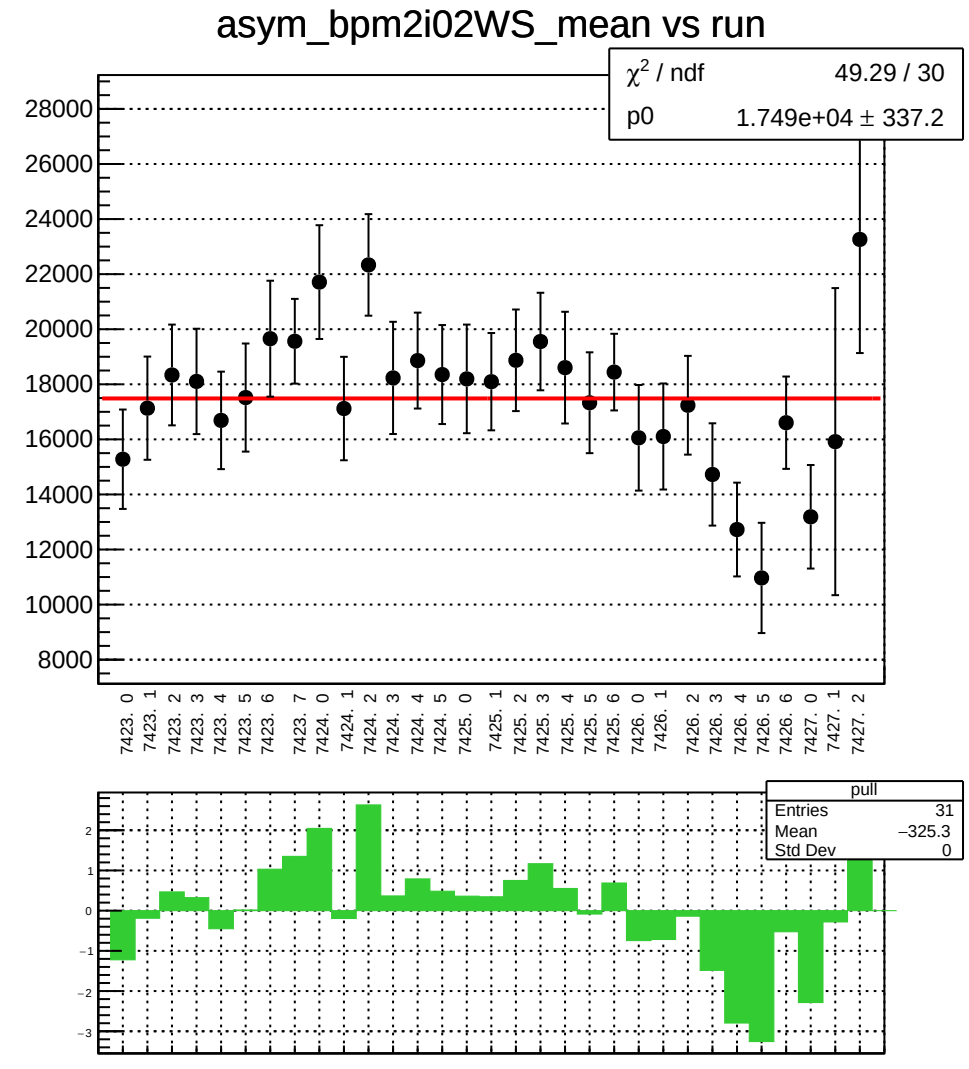

asym_bpm1i02WS_mean vs run
χ² / ndf 55.58 / 30
p0 1.777e+04 ± 372.9
30000
25000
20000
15000
10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 128.9
Std Dev 0
pull1D
Entries 31
Mean −0.02486
Std Dev 1.339

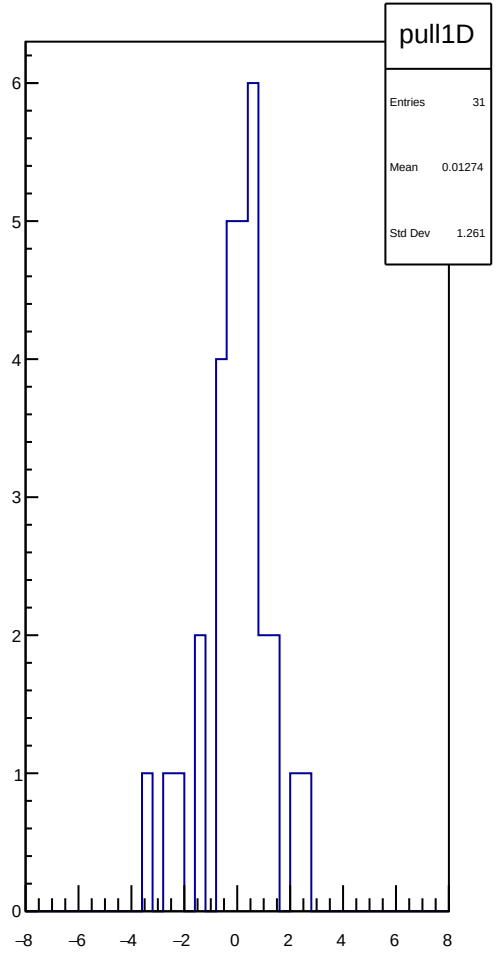

asym_bpm1i02WS_rms vs run
χ² / ndf 1.526e+04 / 30
p0 200.9 ± 0.2637
550
500
450
400
350
300
250
200
150
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

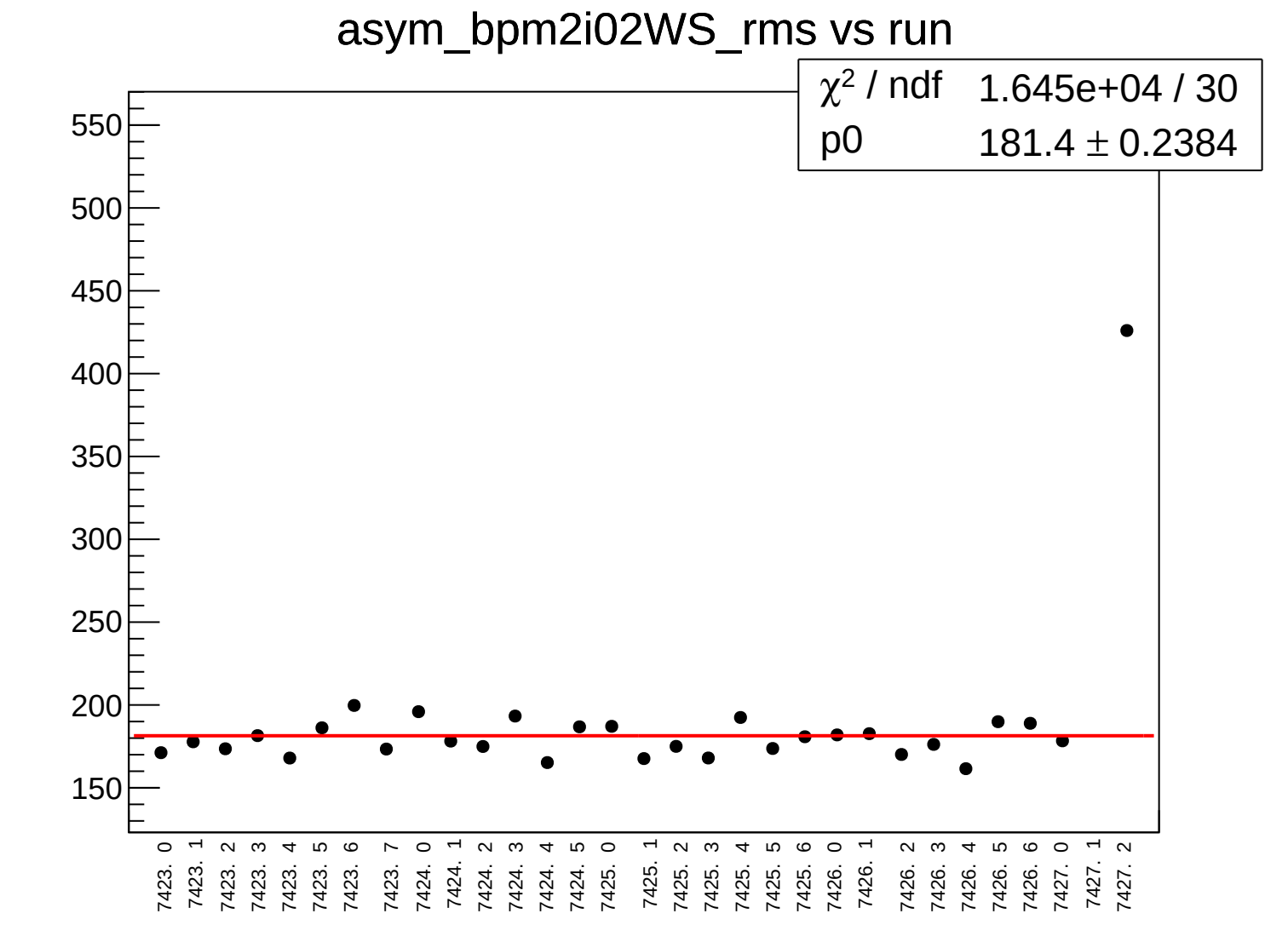

asym_bpm2i01WS_mean vs run
χ² / ndf 43.4 / 30
p0 1.76e+04 ± 336.7
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1183
Std Dev 0
2
1
0
−1
−2
−3

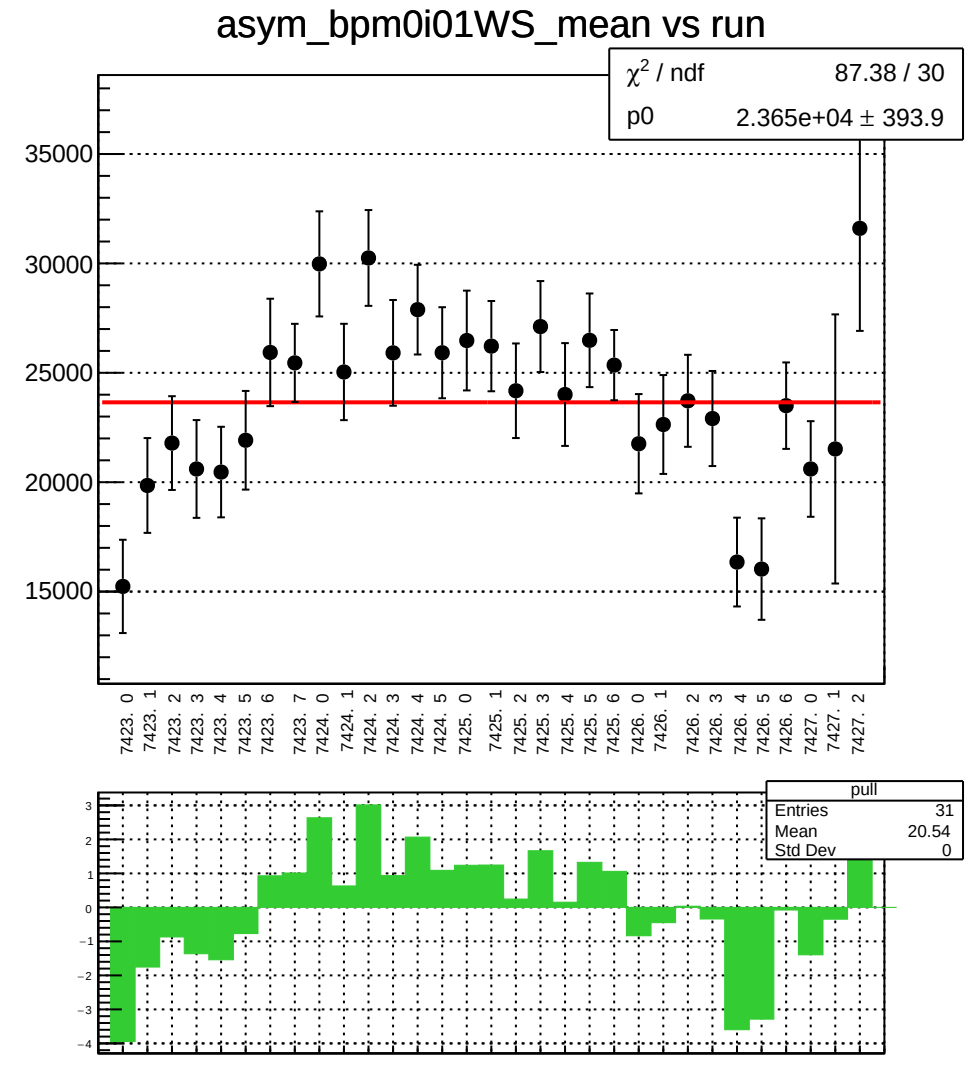

pull1D
Entries 31
Mean 0.002662
Std Dev 1.183
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

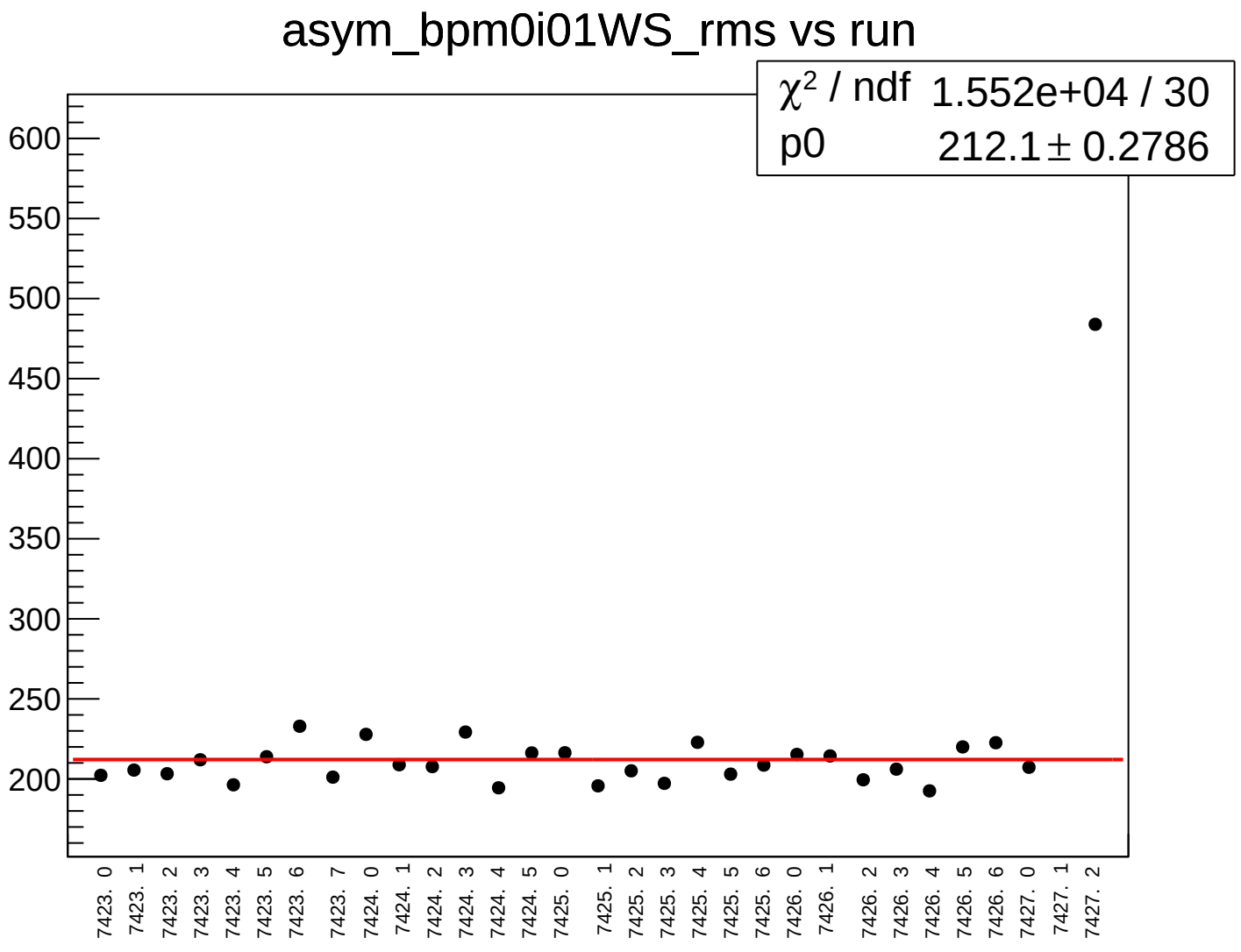

asym_bpm2i01WS_rms vs run
χ² / ndf 1.606e+04 / 30
p0 181.2 ± 0.2381
550
500
450
400
350
300
250
200
150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

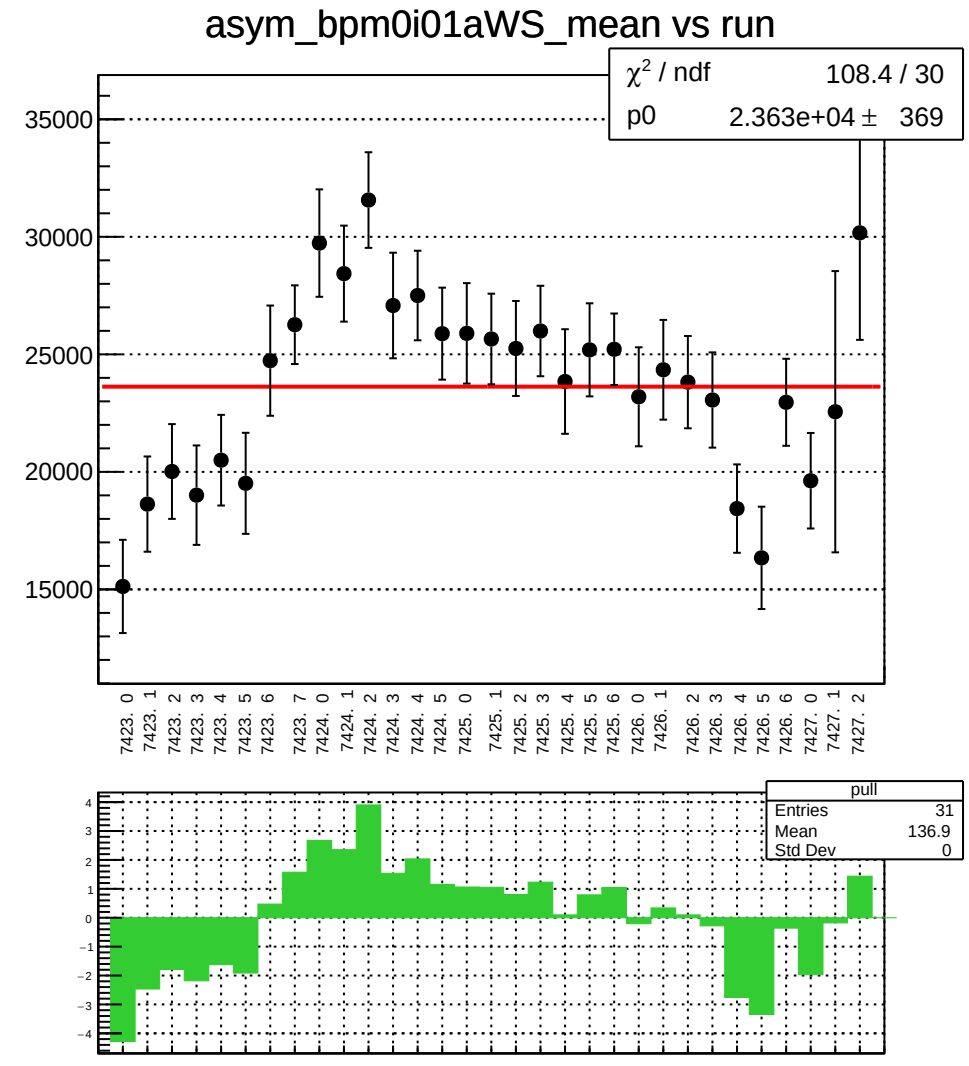

asym_bpm2i02WS_mean vs run
χ² / ndf 49.29 / 30
p0 1.749e+04 ± 337.2
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −325.3
Std Dev 0
2
1
0
−1
−2
−3

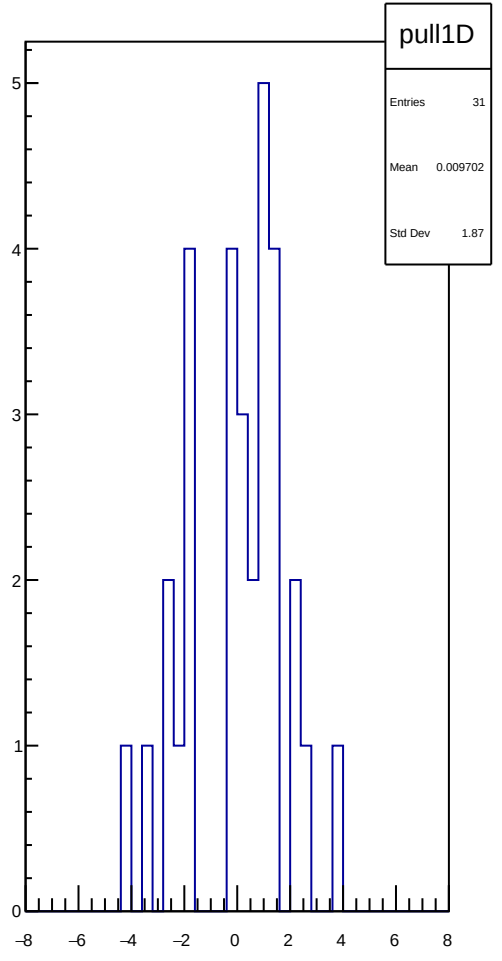

pull1D
Entries 31
Mean 0.01274
Std Dev 1.261
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

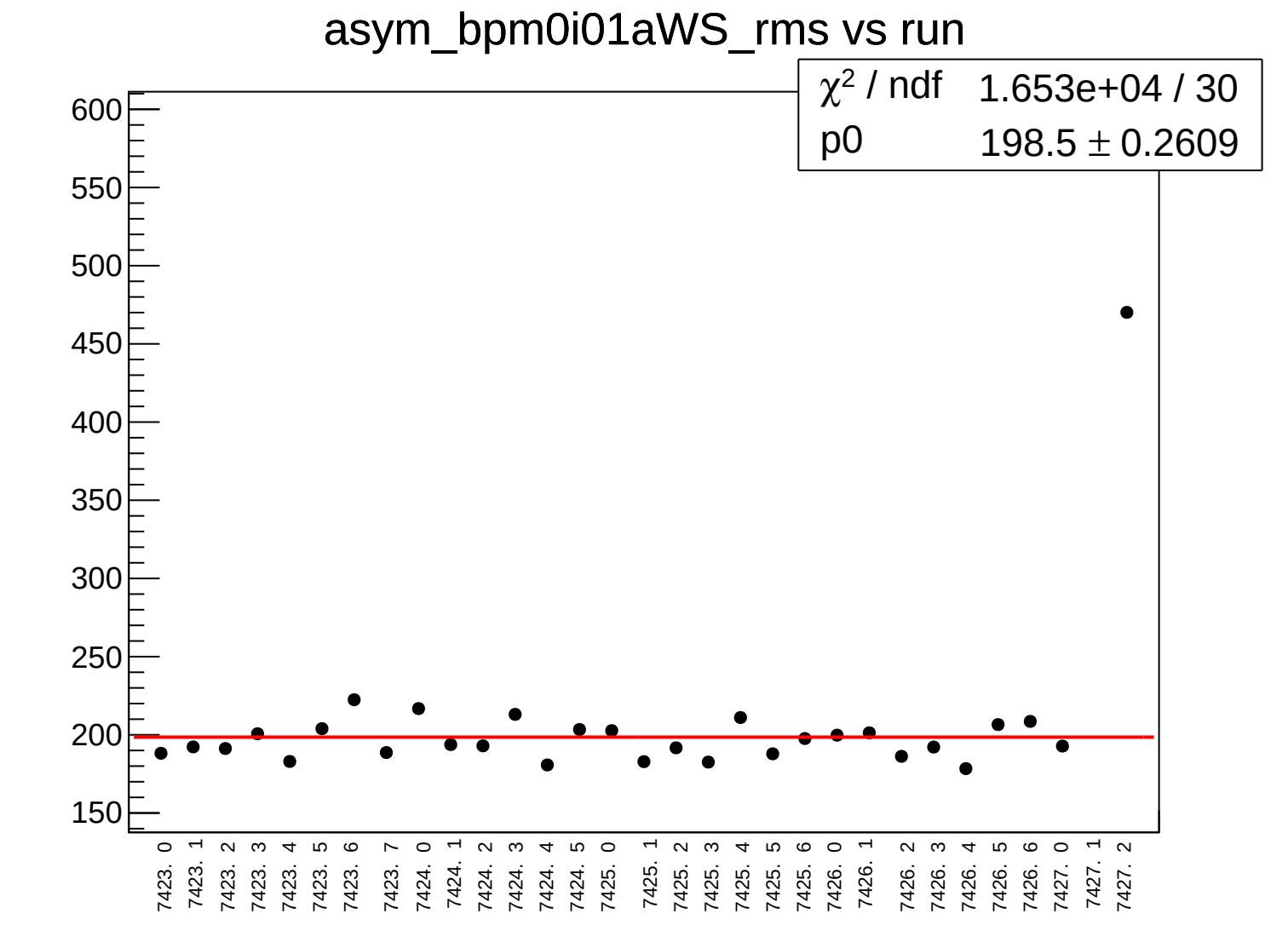

asym_bpm2i02WS_rms vs run
χ² / ndf 1.645e+04 / 30
p0 181.4 ± 0.2384
550
500
450
400
350
300
250
200
150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

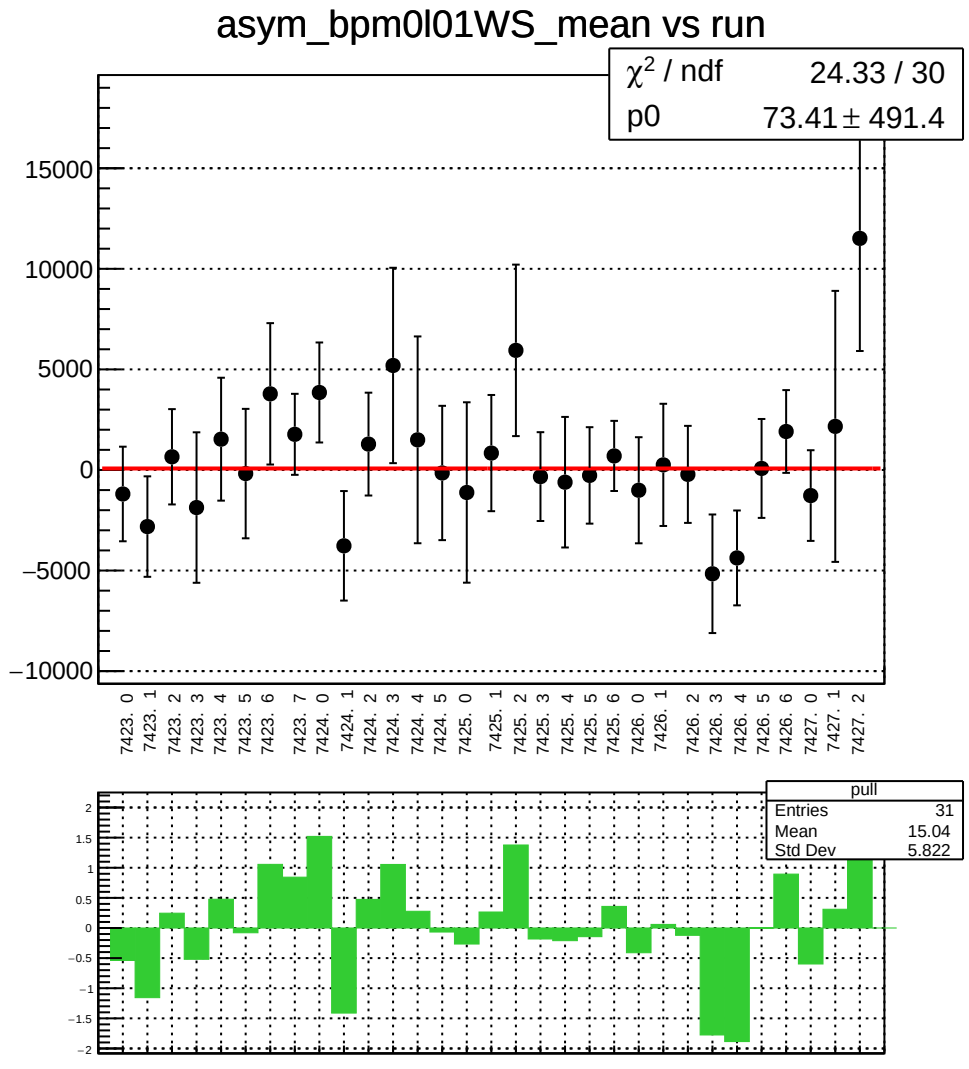

asym_bpm0i01WS_mean vs run
χ² / ndf 87.38 / 30
p0 2.365e+04 ± 393.9
35000
30000
25000
20000
15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 20.54
Std Dev 0
pull1D
Entries 31
Mean 0.01313
Std Dev 1.679

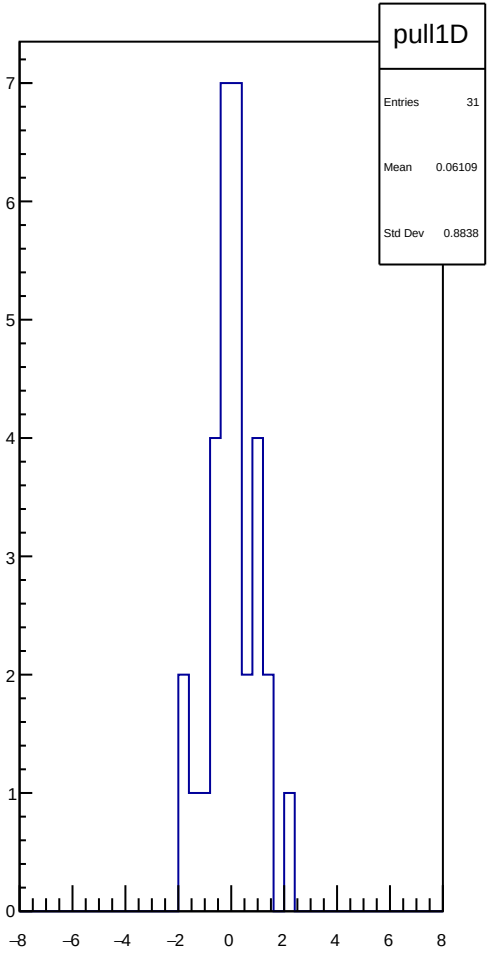

asym_bpm0i01WS_rms vs run
χ² / ndf 1.552e+04 / 30
p0 212.1 ± 0.2786
600
550
500
450
400
350
300
250
200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

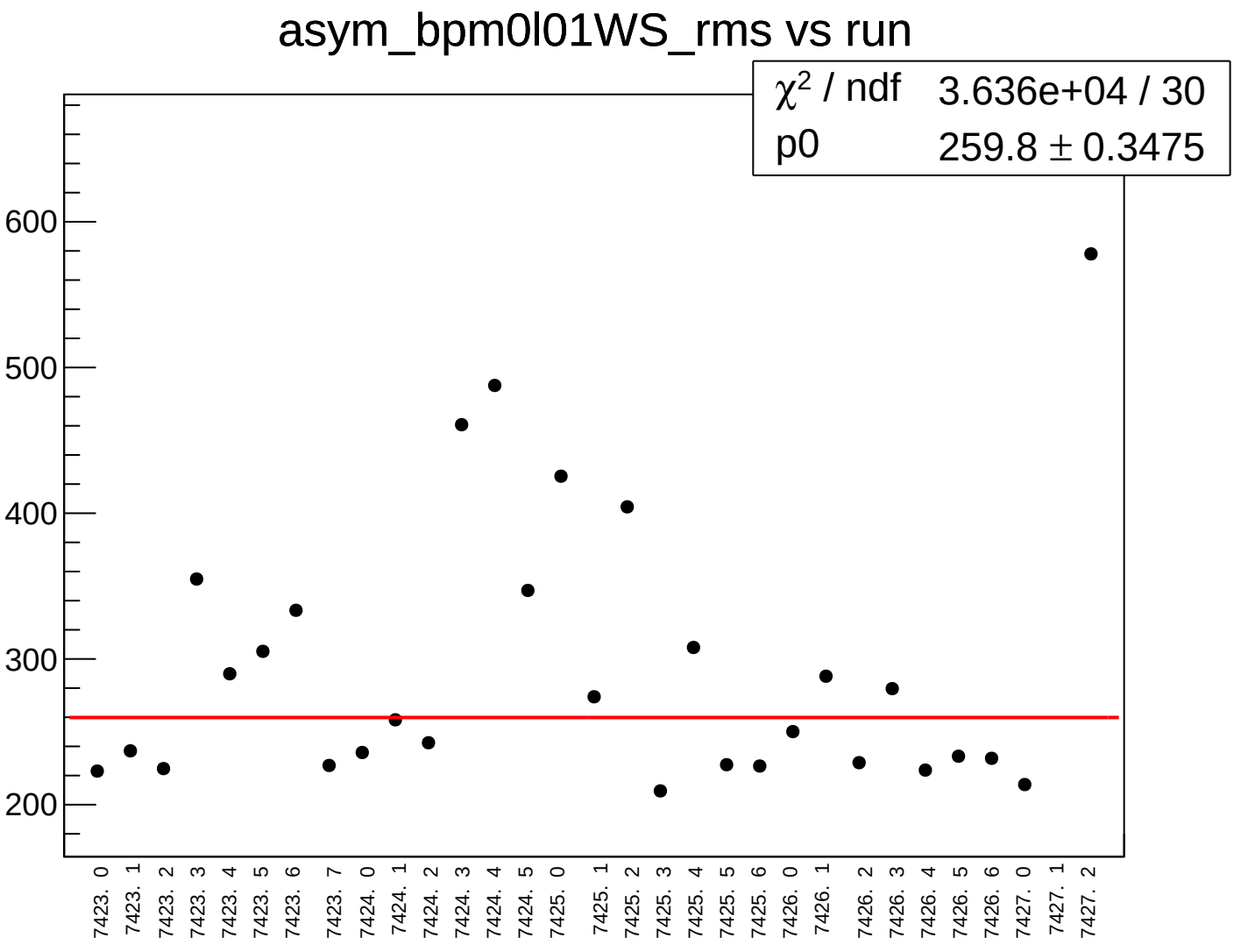

asym_bpm0i01aWS_mean vs run
χ² / ndf 108.4 / 30
p0 2.363e+04 ± 369
35000
30000
25000
20000
15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 136.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

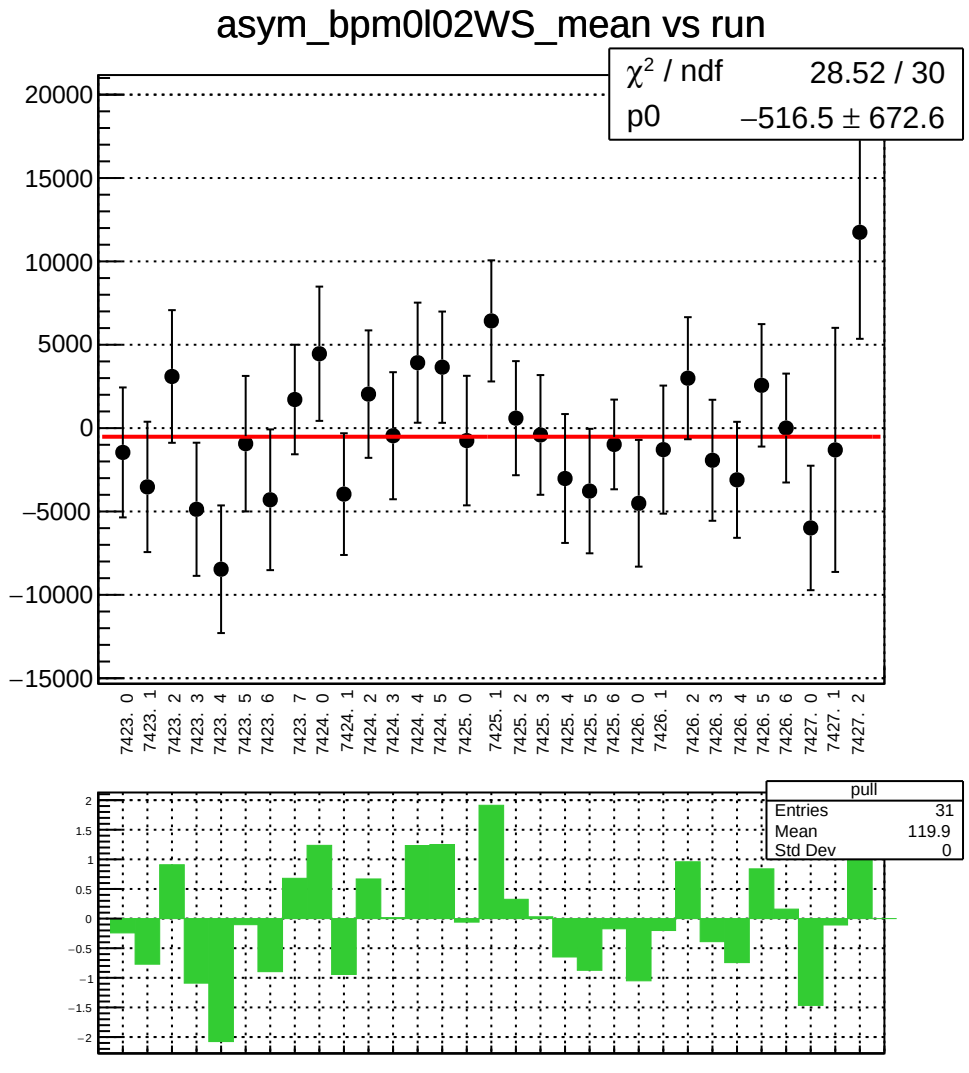

pull1D
Entries 31
Mean 0.009702
Std Dev 1.87
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

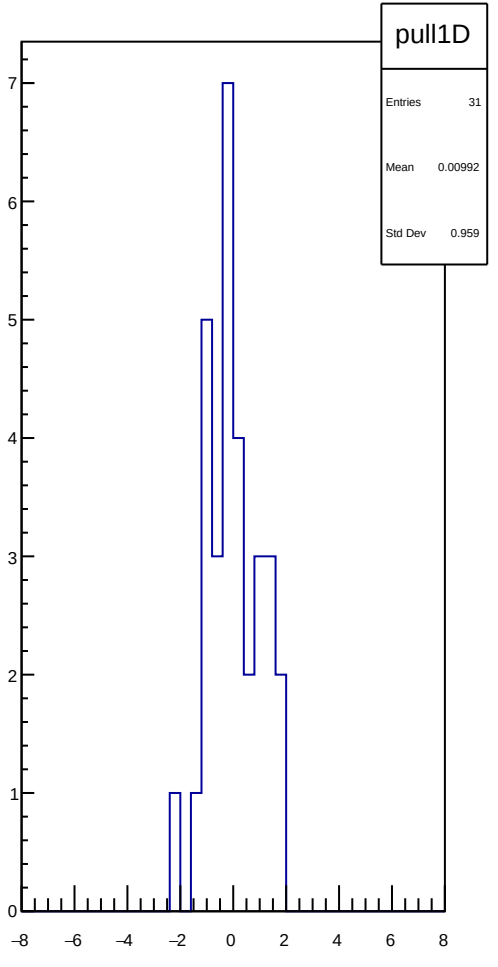

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.653e+04 / 30
p0 198.5 ± 0.2609
600
550
500
450
400
350
300
250
200
150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

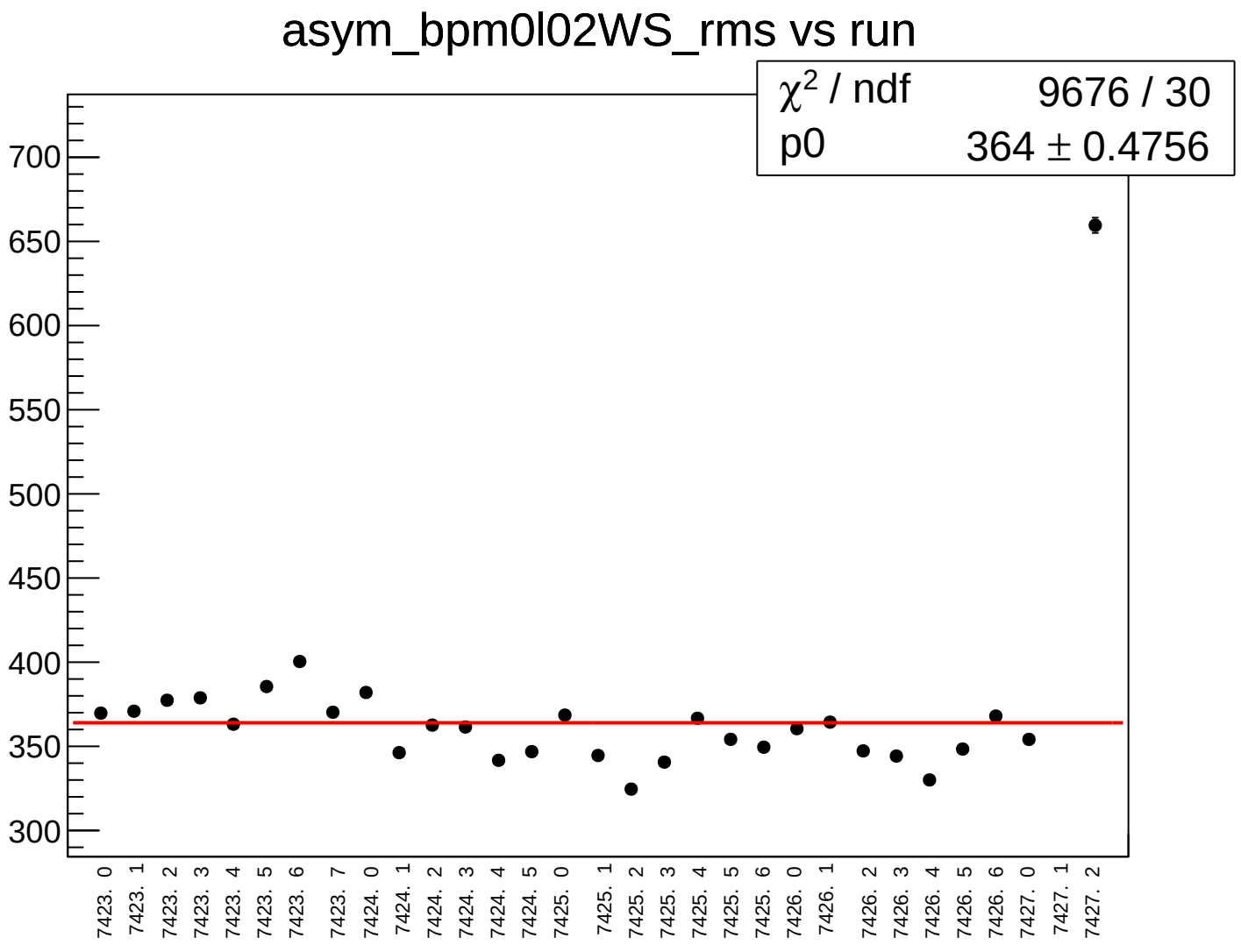

asym_bpm0l01WS_mean vs run
χ² / ndf 24.33 / 30
p0 73.41 ± 491.4
15000
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.04
Std Dev 5.822
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

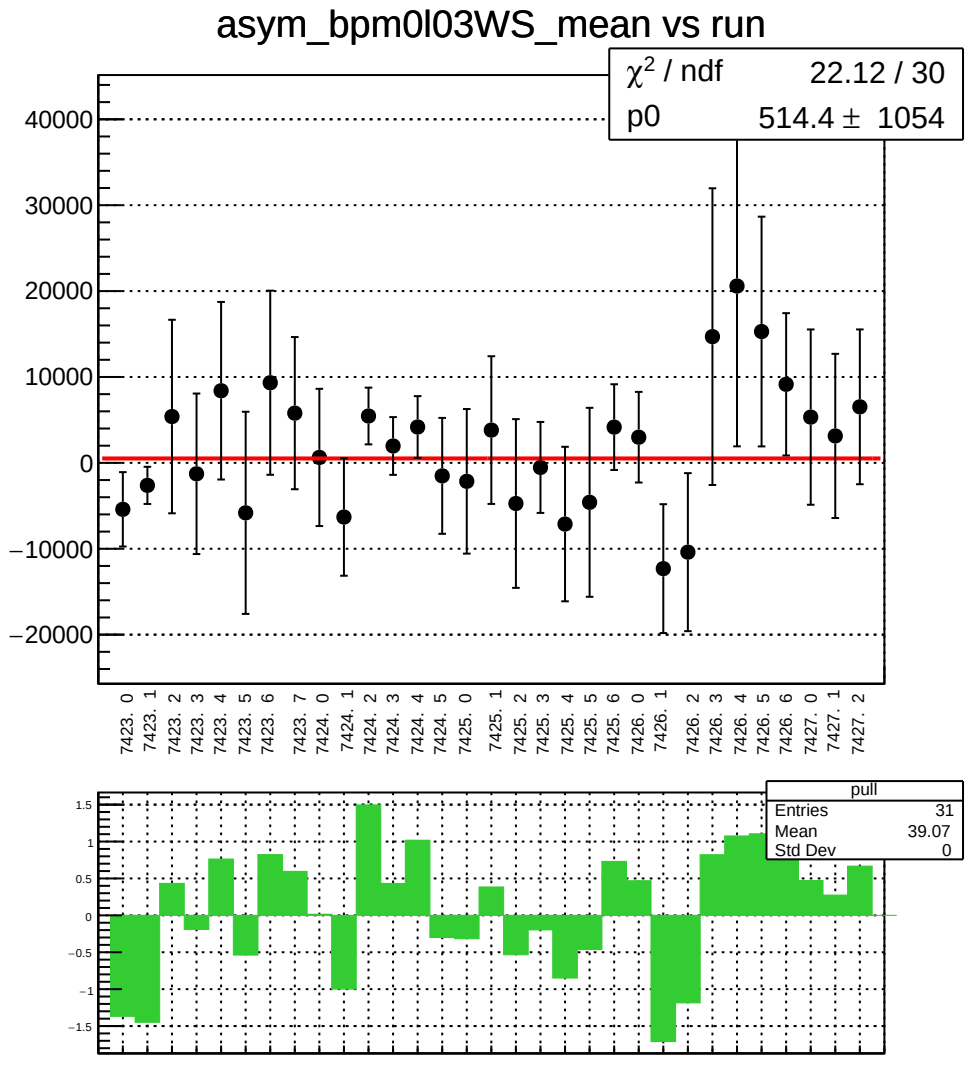

pull1D
Entries 31
Mean 0.06109
Std Dev 0.8838
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

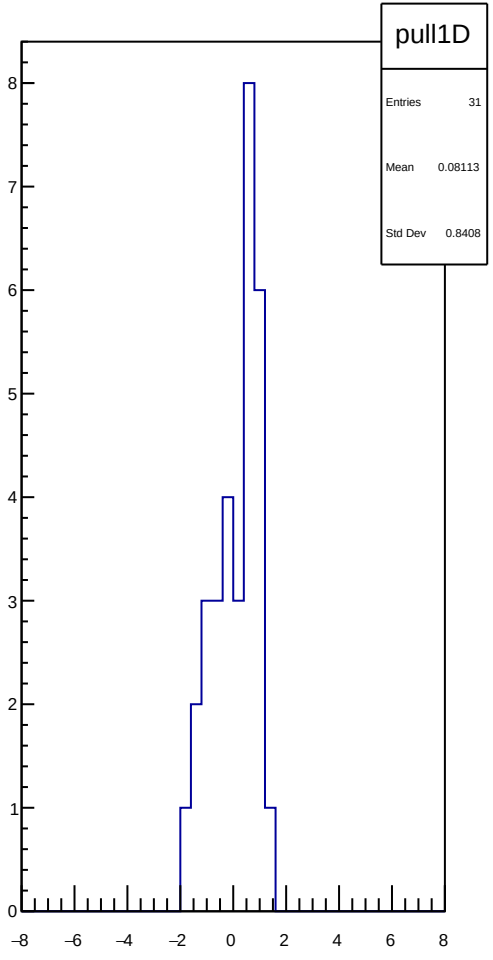

asym_bpm0l01WS_rms vs run
χ² / ndf 3.636e+04 / 30
p0 259.8 ± 0.3475
600
500
400
300
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

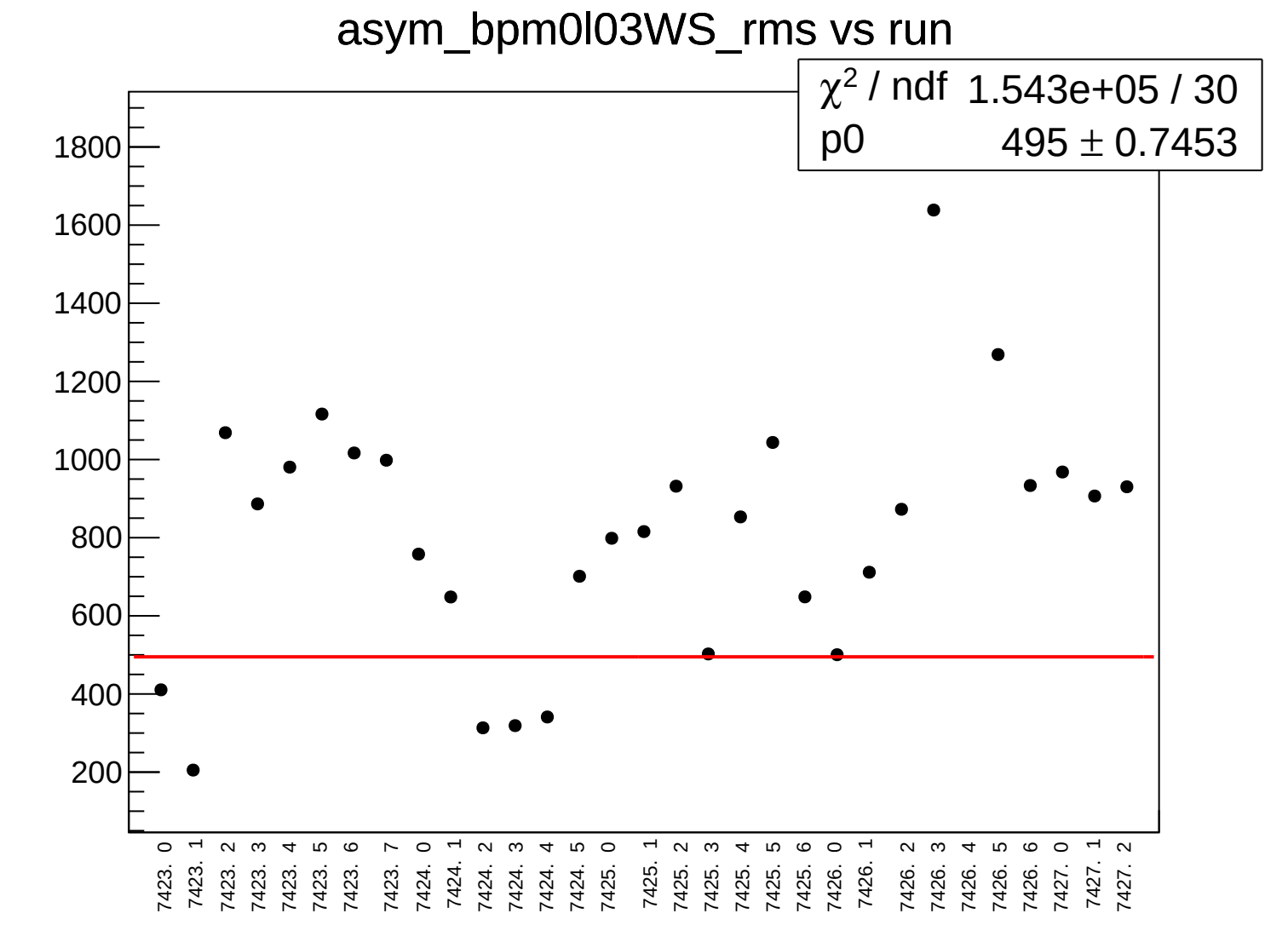

asym_bpm0l02WS_mean vs run
χ² / ndf 28.52 / 30
p0 −516.5 ± 672.6
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 119.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

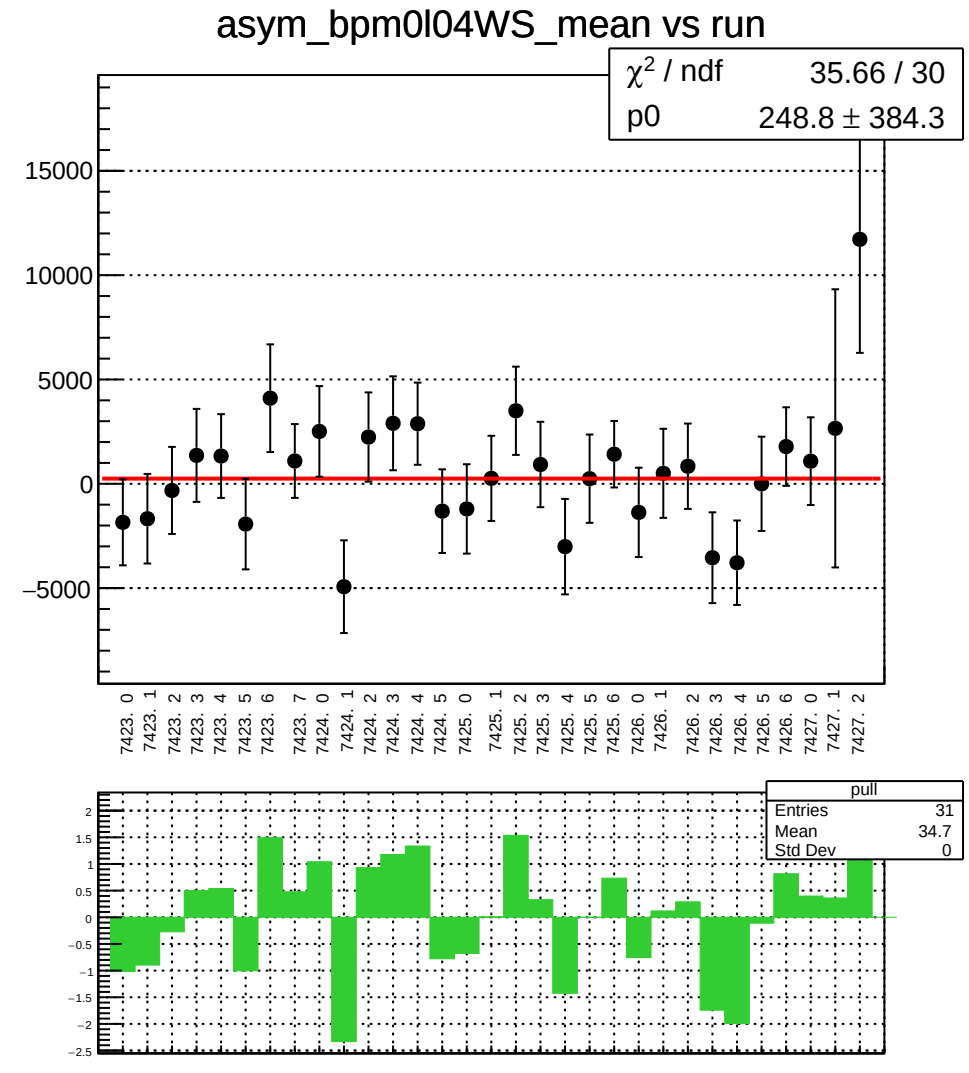

pull1D
Entries 31
Mean 0.00992
Std Dev 0.959
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

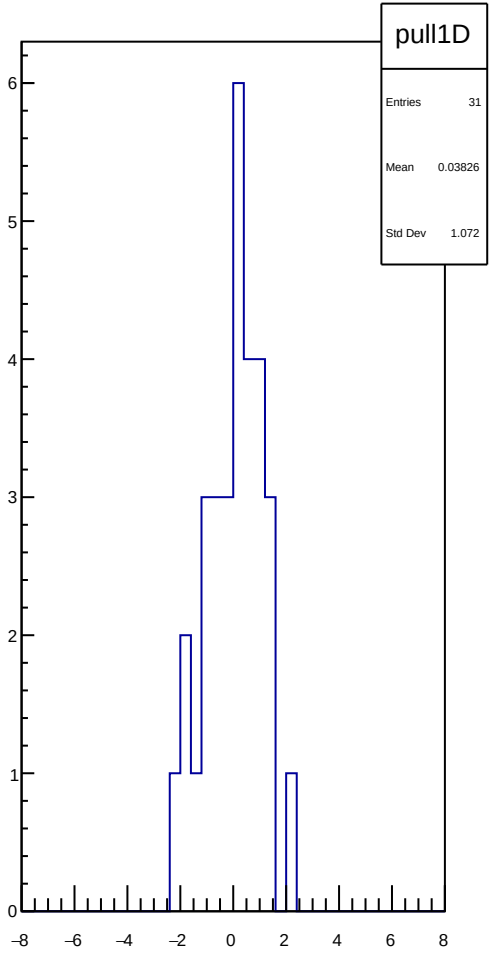

asym_bpm0l02WS_rms vs run
χ² / ndf 9676 / 30
p0 364 ± 0.4756
700
650
600
550
500
450
400
350
300
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

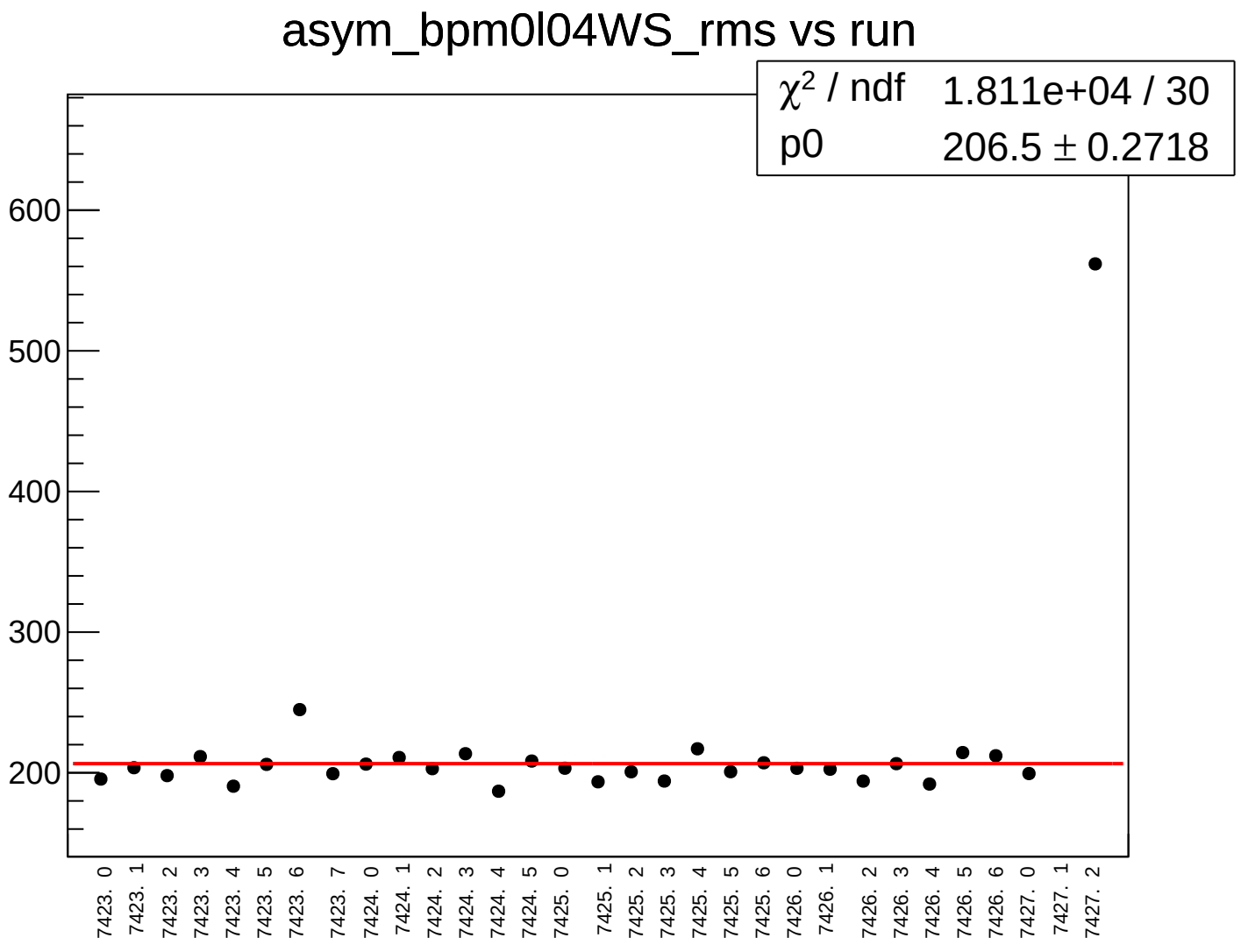

asym_bpm0l03WS_mean vs run
χ² / ndf 22.12 / 30
p0 514.4 ± 1054
40000
30000
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 39.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

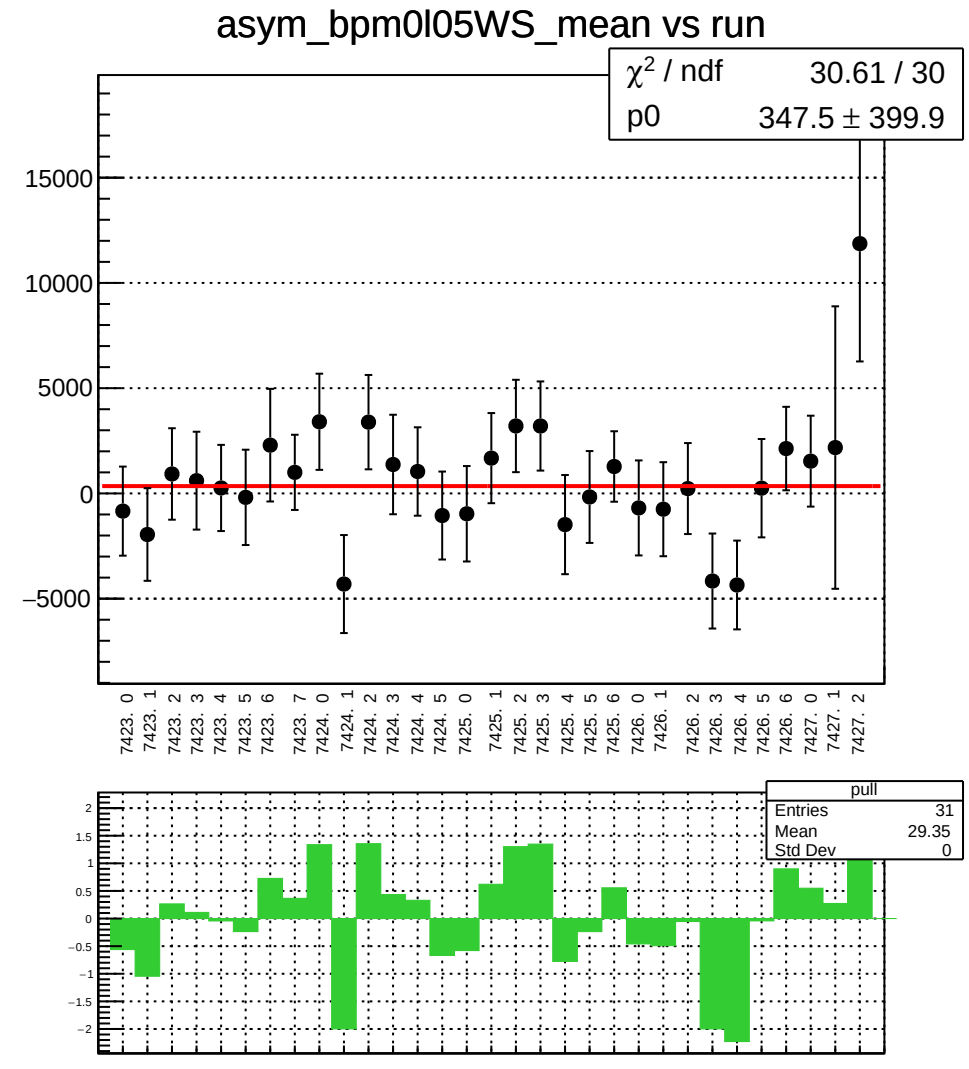

pull1D
Entries 31
Mean 0.08113
Std Dev 0.8408
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

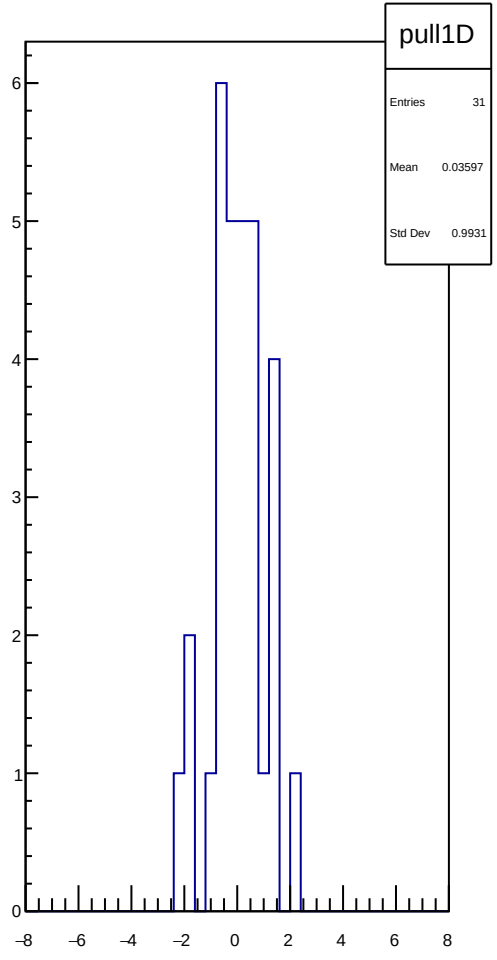

asym_bpm0l03WS_rms vs run
χ² / ndf 1.543e+05 / 30
p0 495 ± 0.7453
1800
1600
1400
1200
1000
800
600
400
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

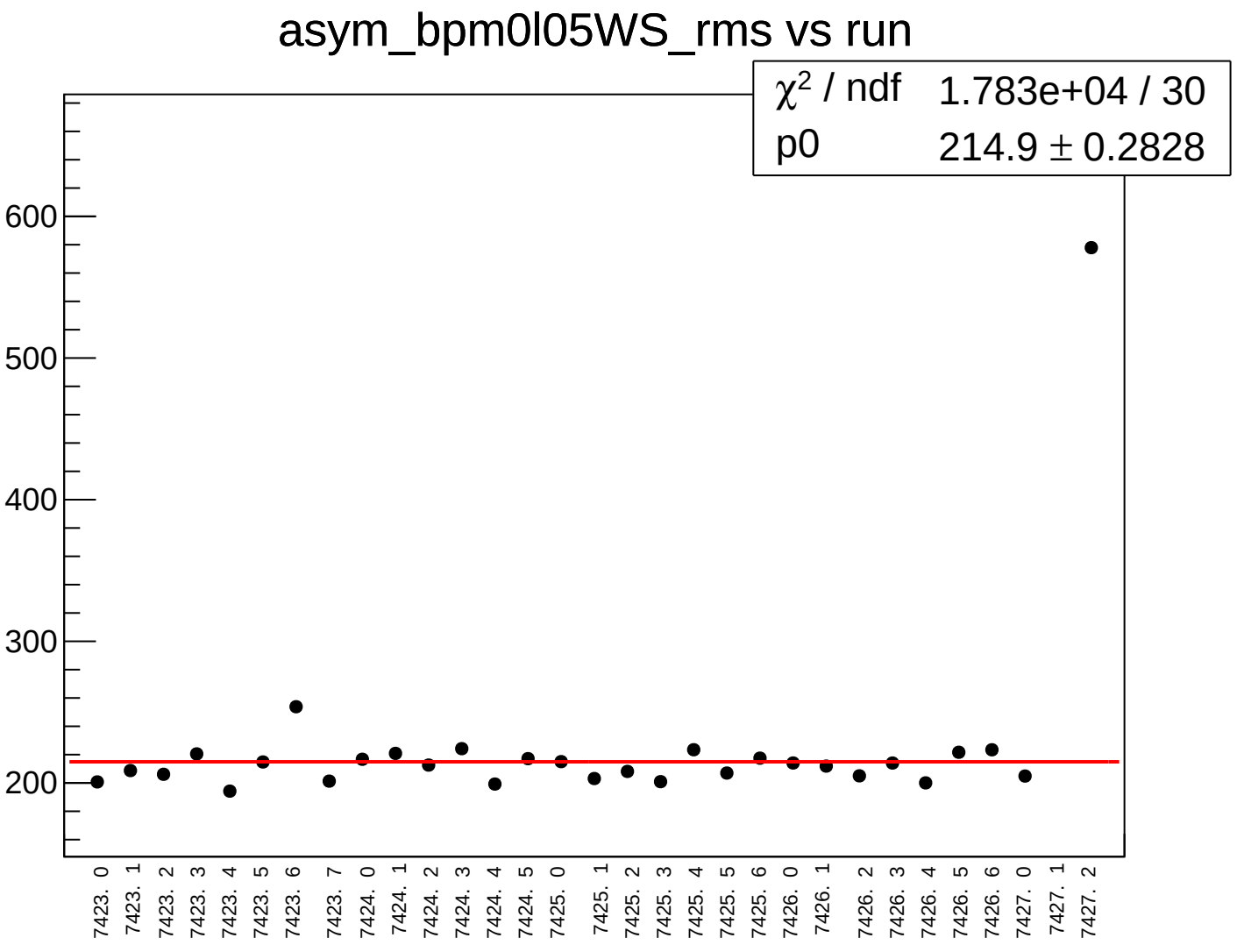

asym_bpm0l04WS_mean vs run
χ² / ndf 35.66 / 30
p0 248.8 ± 384.3
15000
10000
5000
0
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 34.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

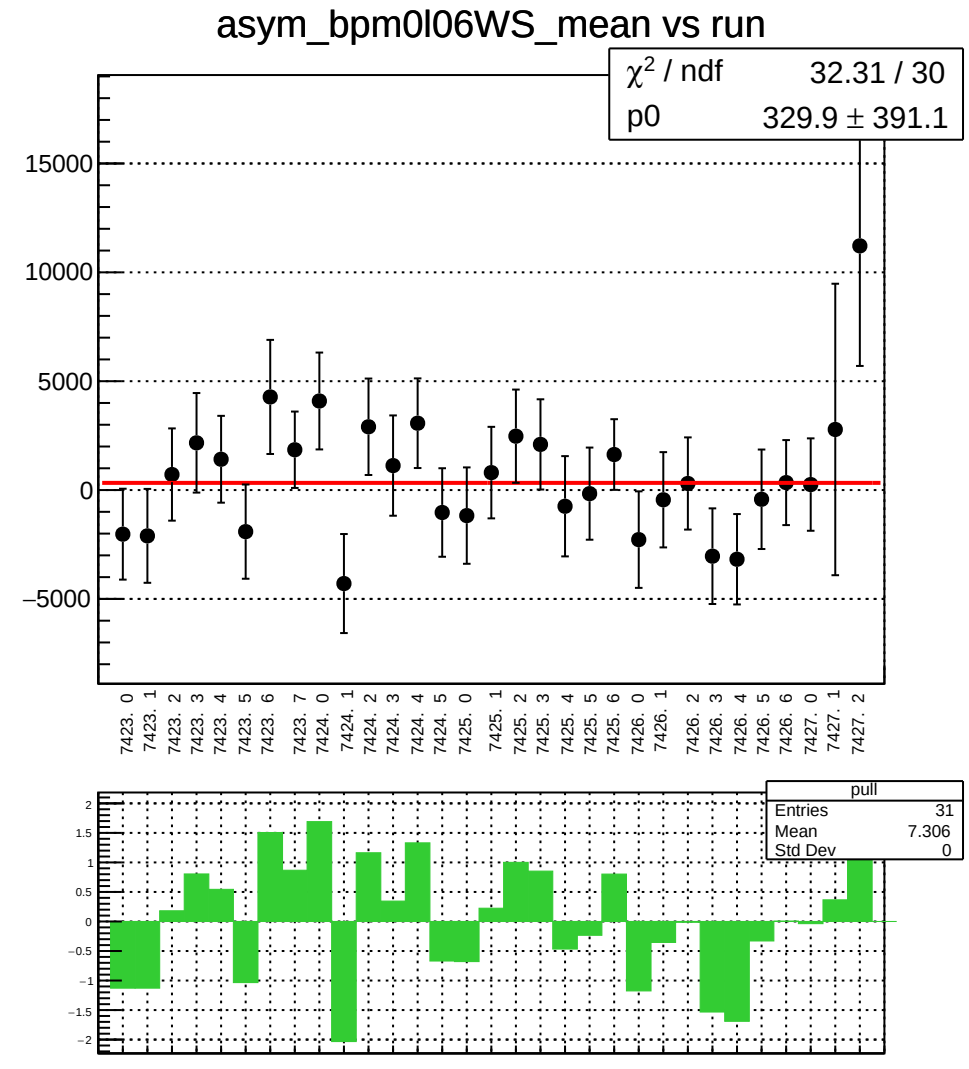

pull1D
Entries 31
Mean 0.03826
Std Dev 1.072
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

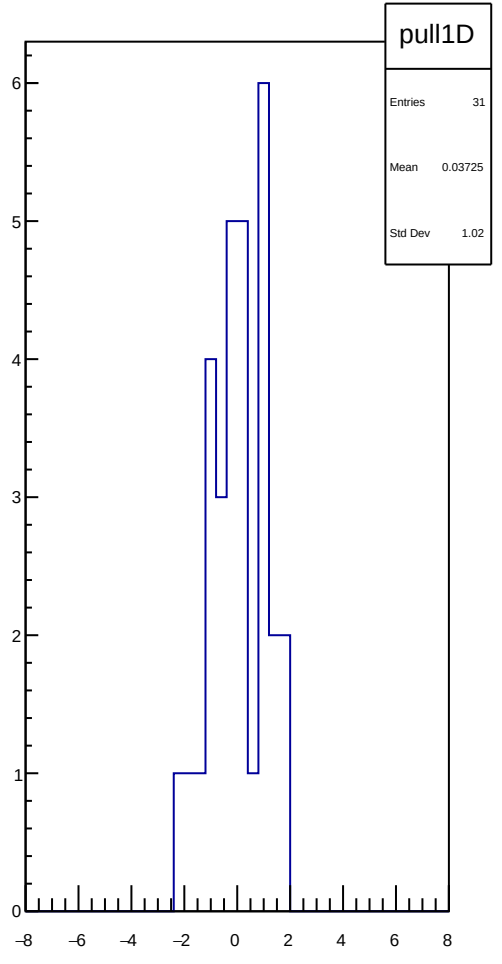

asym_bpm0l04WS_rms vs run
χ² / ndf 1.811e+04 / 30
p0 206.5 ± 0.2718
600
500
400
300
200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

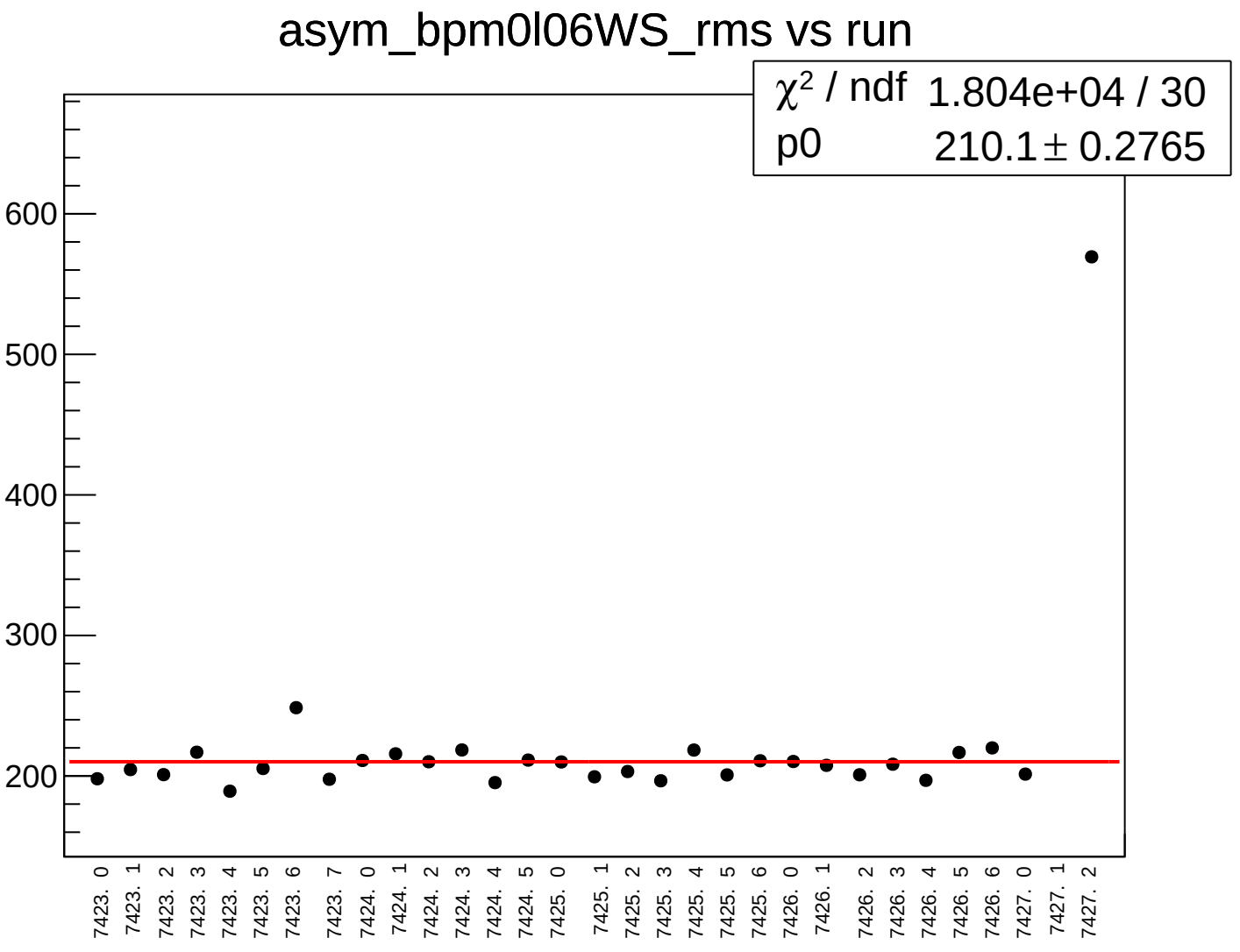

asym_bpm0l05WS_mean vs run
χ² / ndf 30.61 / 30
p0 347.5 ± 399.9
15000
10000
5000
0
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 29.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

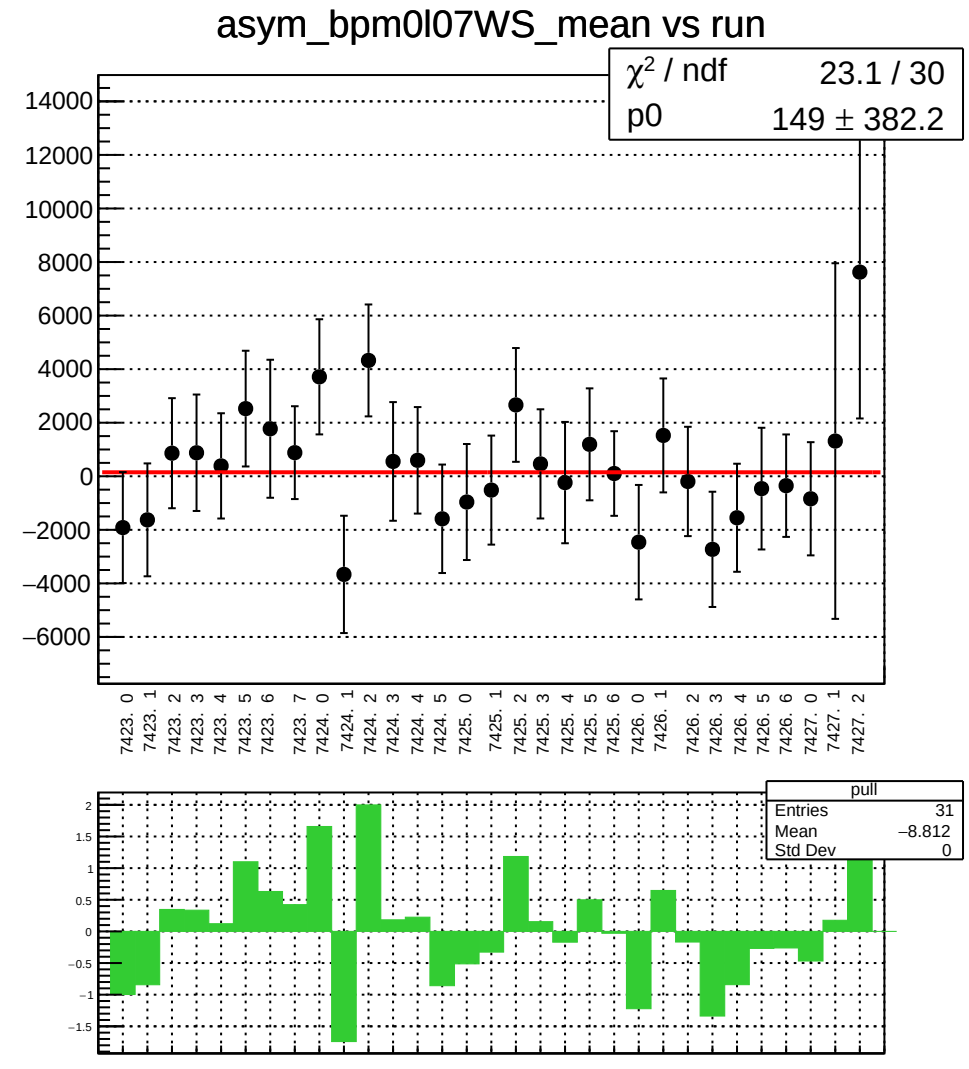

pull1D
Entries 31
Mean 0.03597
Std Dev 0.9931
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

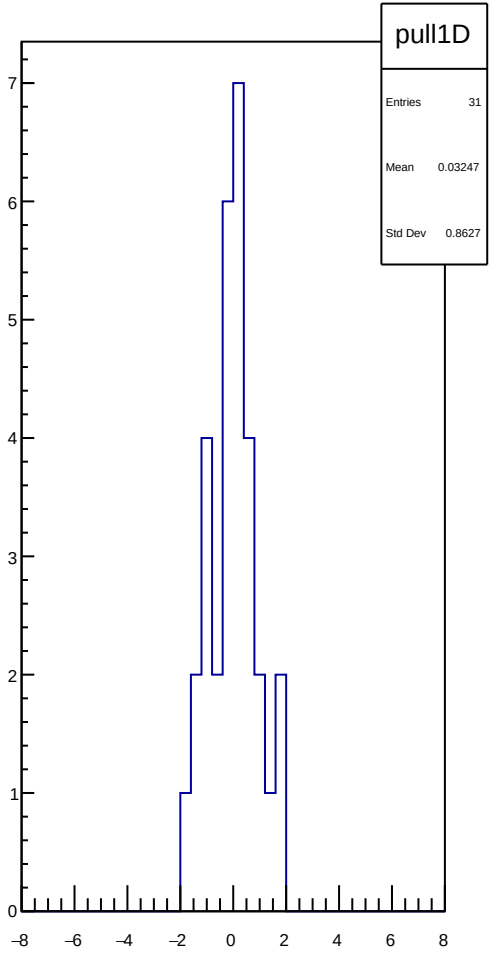

asym_bpm0l05WS_rms vs run
χ² / ndf 1.783e+04 / 30
p0 214.9 ± 0.2828
600
500
400
300
200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

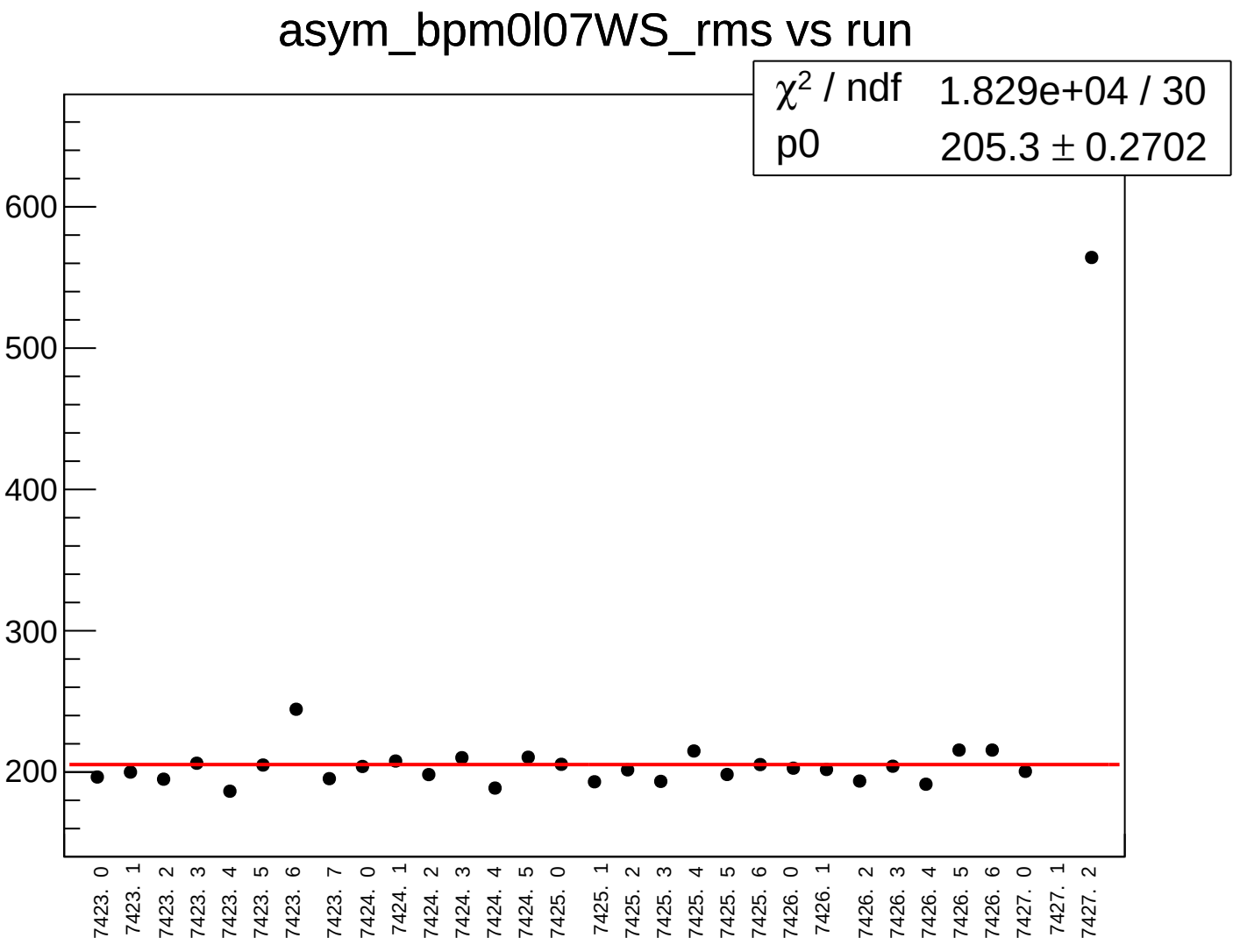

asym_bpm0l06WS_mean vs run
χ² / ndf 32.31 / 30
p0 329.9 ± 391.1
15000
10000
5000
0
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 7.306
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

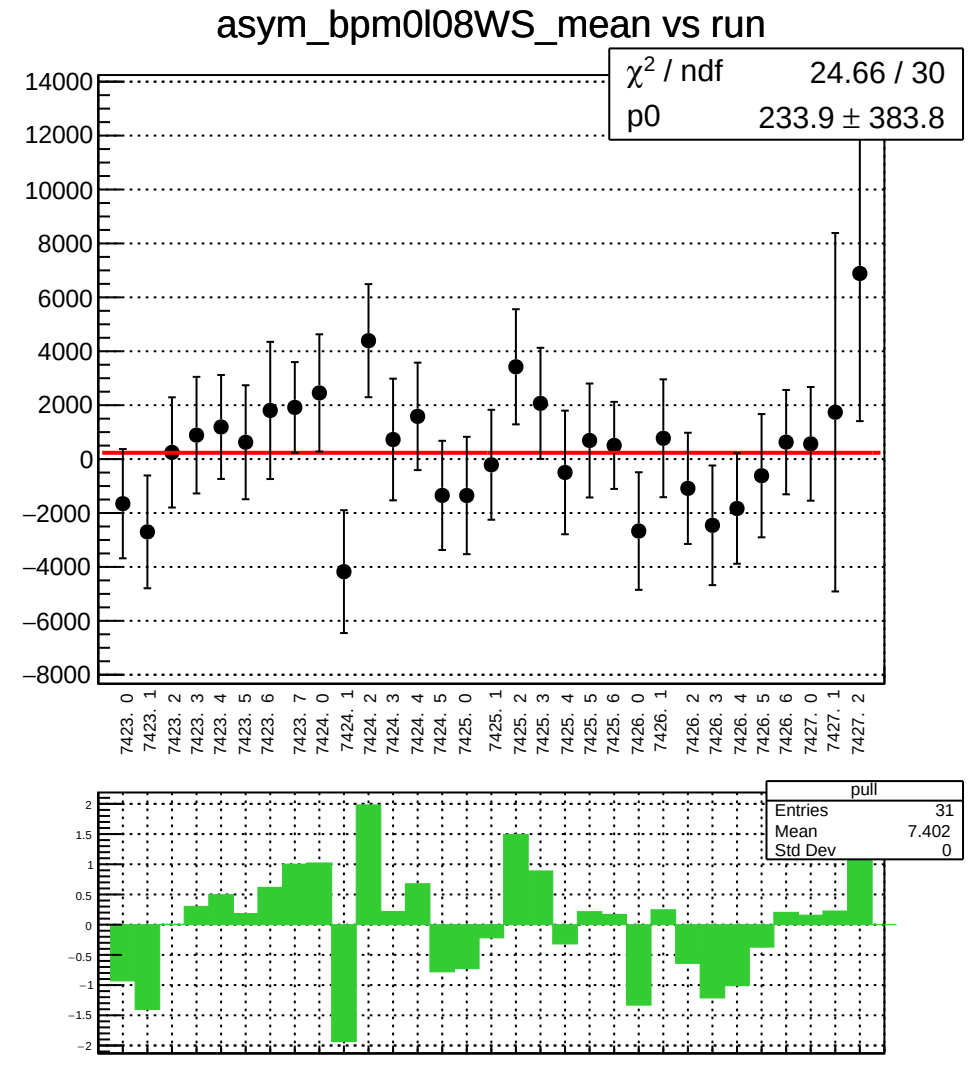

pull1D
Entries 31
Mean 0.03725
Std Dev 1.02
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

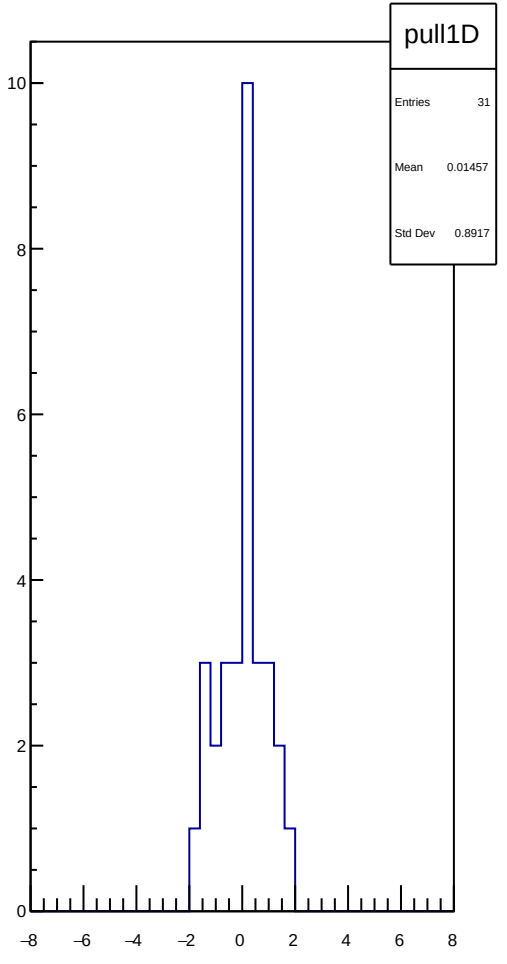

asym_bpm0l06WS_rms vs run
χ² / ndf 1.804e+04 / 30
p0 210.1 ± 0.2765
600
500
400
300
200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

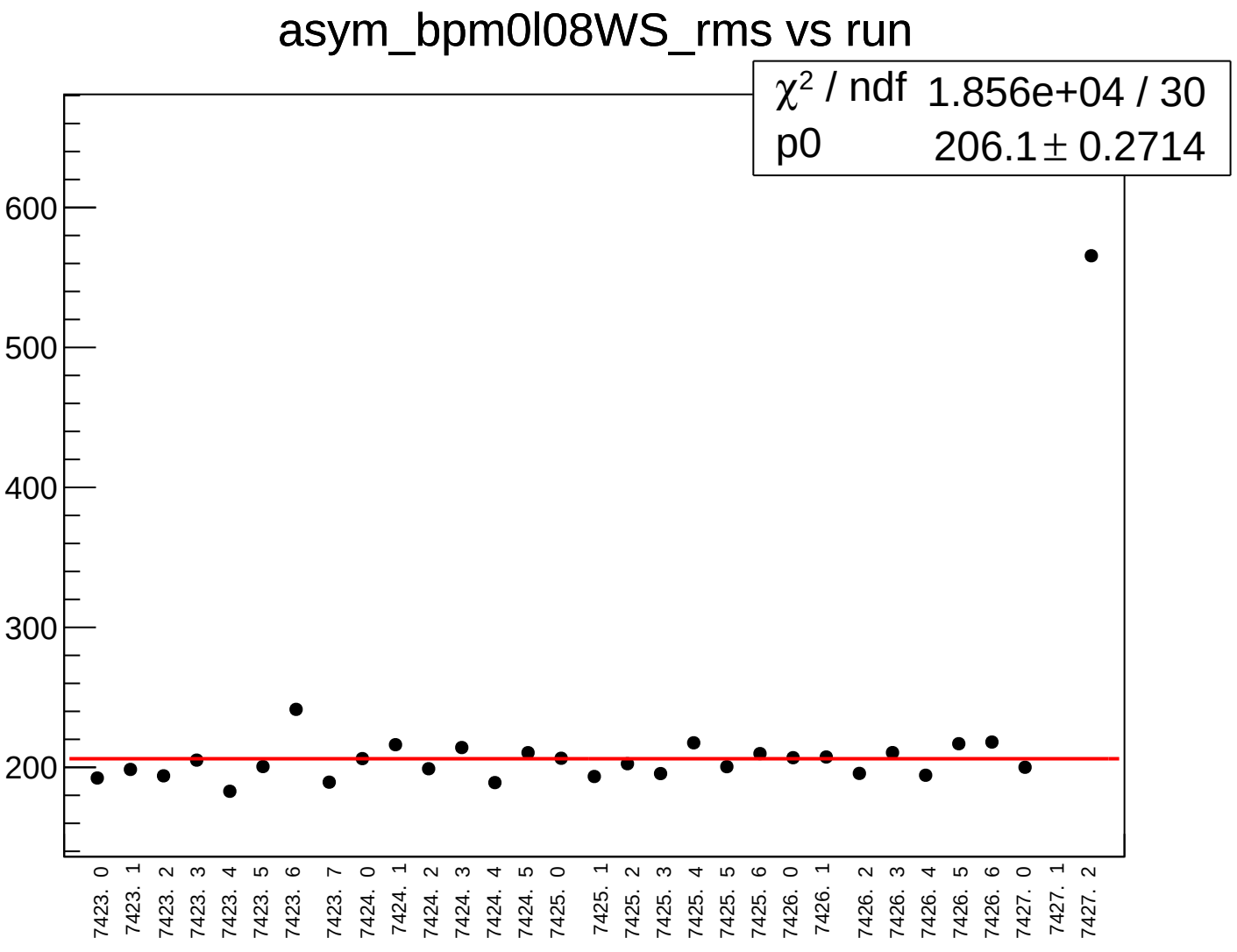

asym_bpm0l07WS_mean vs run
χ² / ndf 23.1 / 30
p0 149 ± 382.2
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −8.812
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

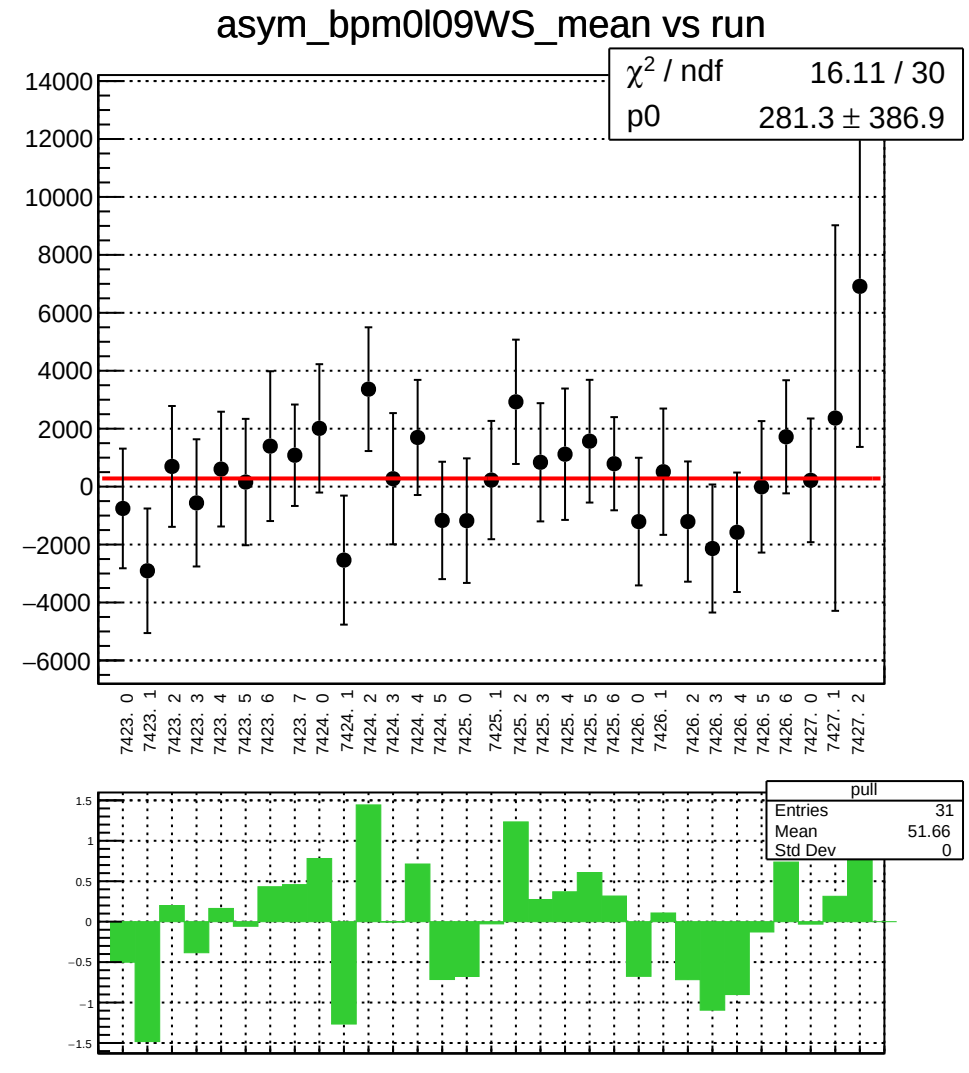

pull1D
Entries 31
Mean 0.03247
Std Dev 0.8627
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

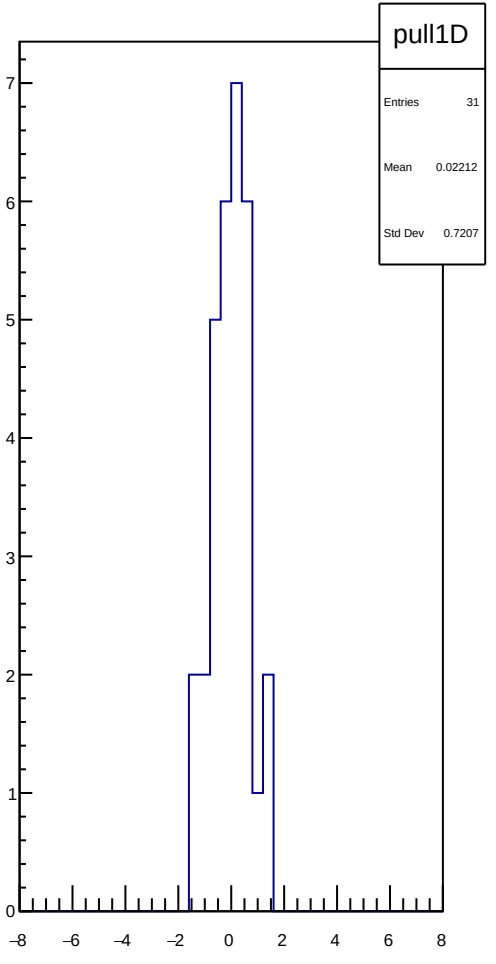

asym_bpm0l07WS_rms vs run
χ² / ndf 1.829e+04 / 30
p0 205.3 ± 0.2702
600
500
400
300
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

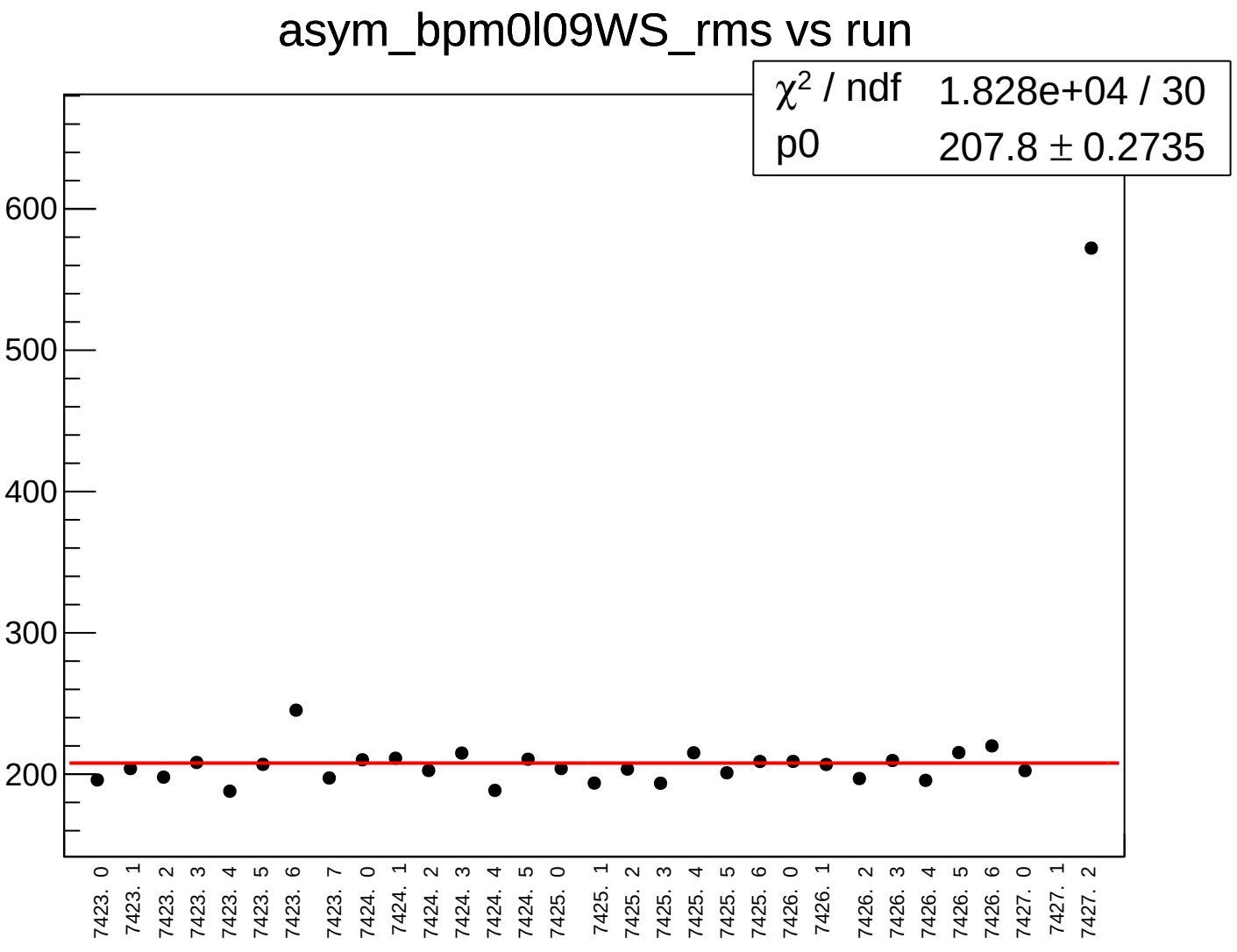

asym_bpm0l08WS_mean vs run
χ² / ndf 24.66 / 30
p0 233.9 ± 383.8
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 7.402
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

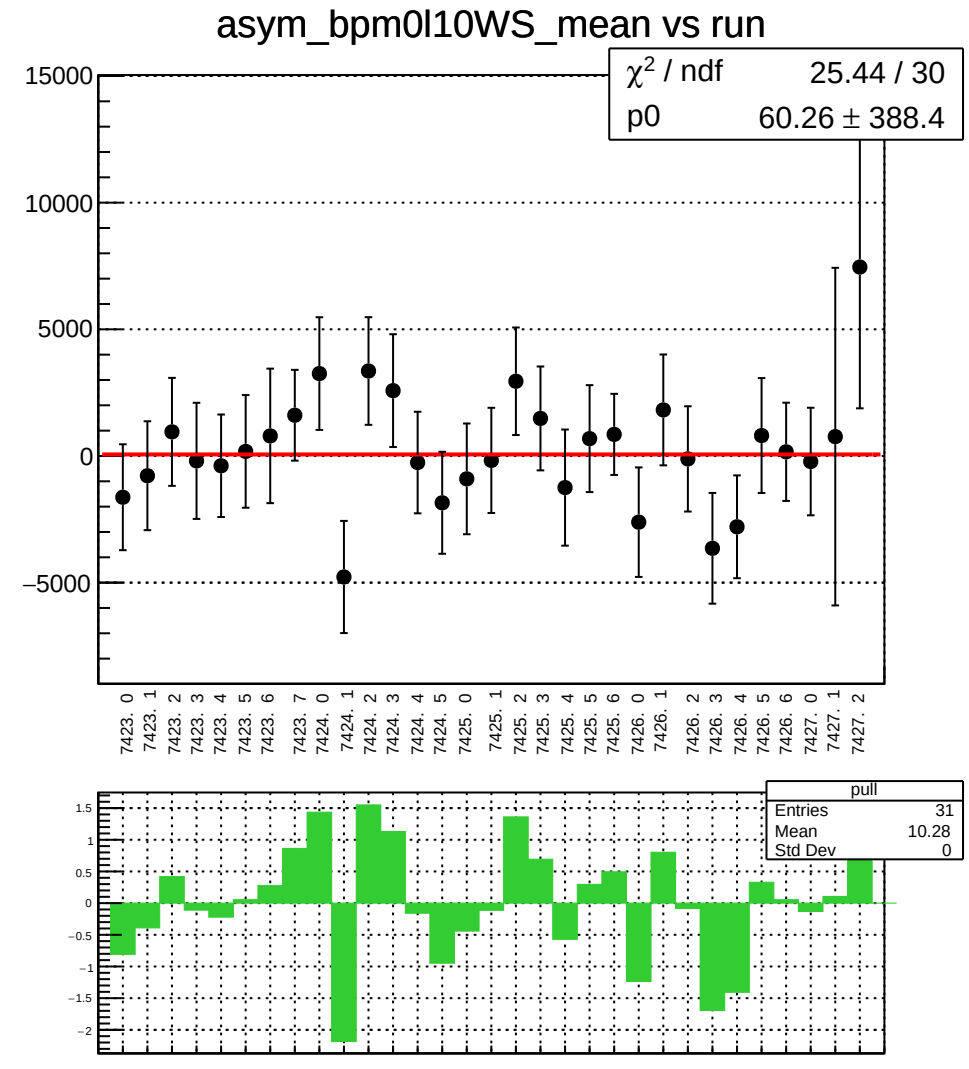

pull1D
Entries 31
Mean 0.01457
Std Dev 0.8917
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

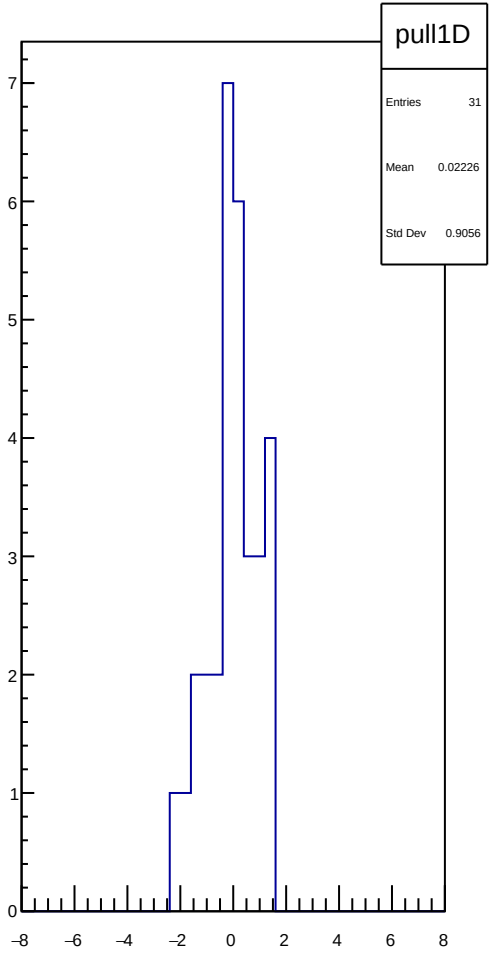

asym_bpm0l08WS_rms vs run
χ² / ndf 1.856e+04 / 30
p0 206.1 ± 0.2714
600
500
400
300
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

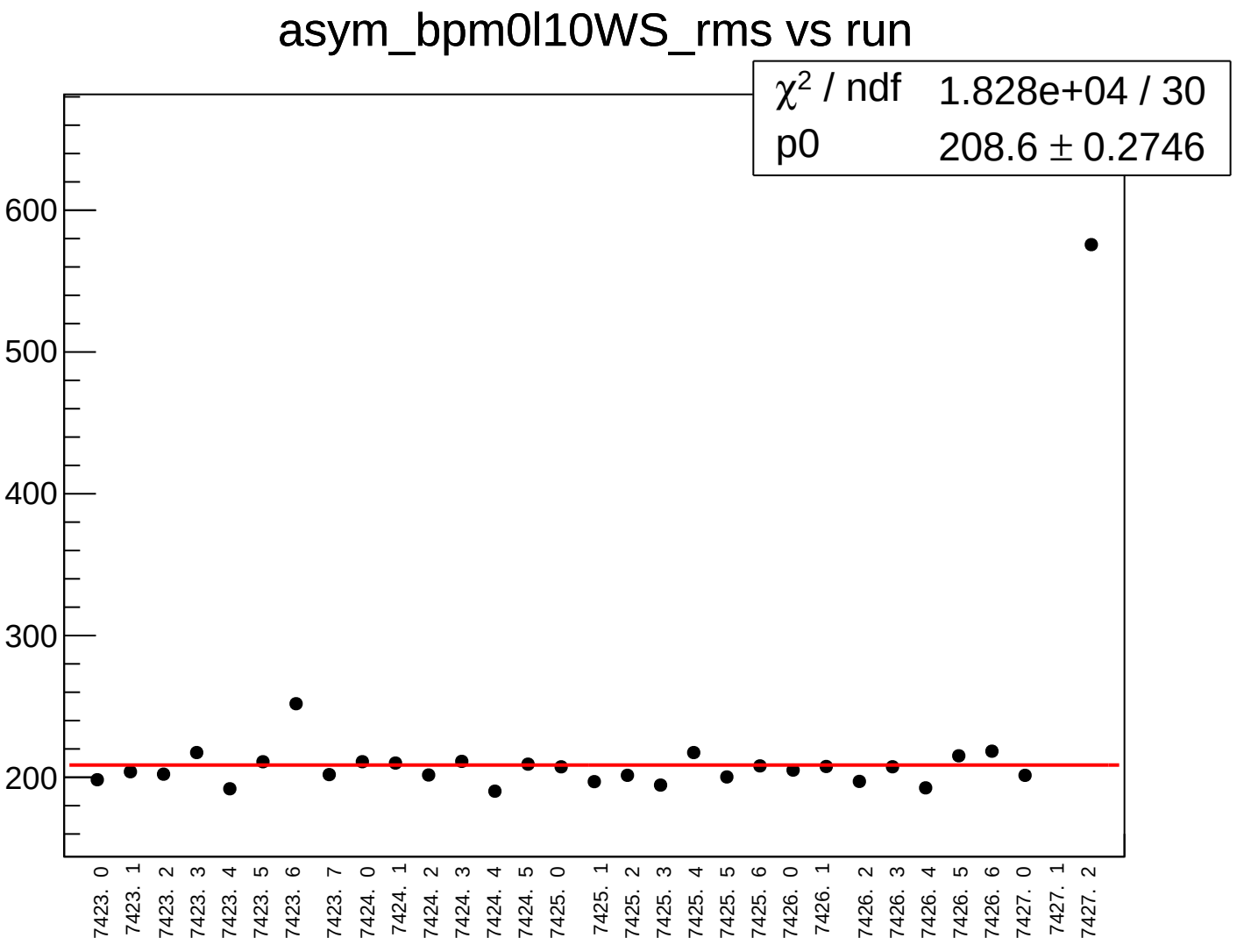

asym_bpm0l09WS_mean vs run
χ² / ndf 16.11 / 30
p0 281.3 ± 386.9
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 51.66
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

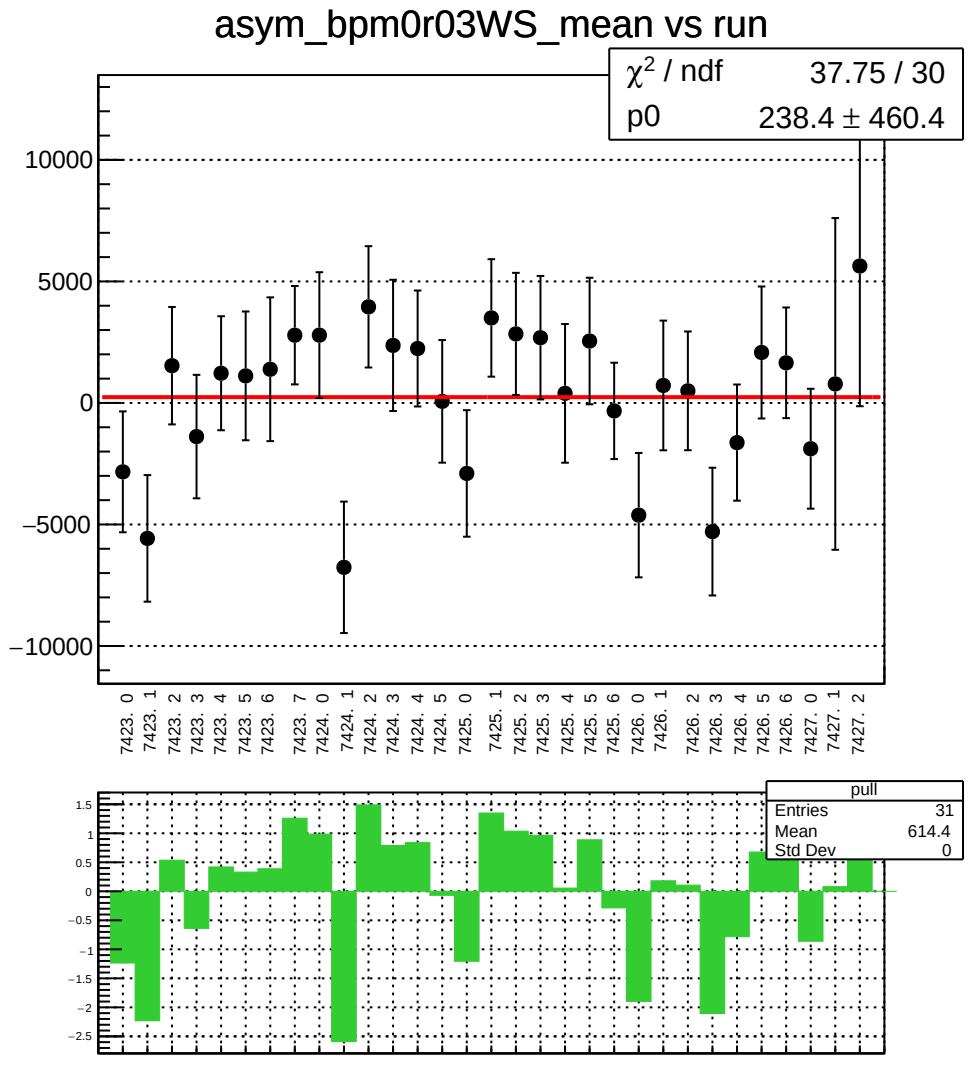

pull1D
Entries 31
Mean 0.02212
Std Dev 0.7207
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

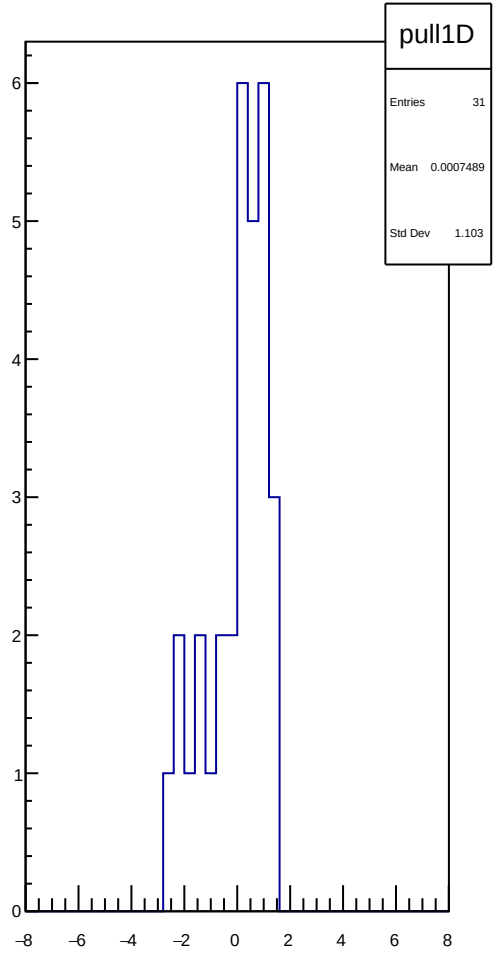

asym_bpm0l09WS_rms vs run
χ² / ndf 1.828e+04 / 30
p0 207.8 ± 0.2735
600
500
400
300
200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

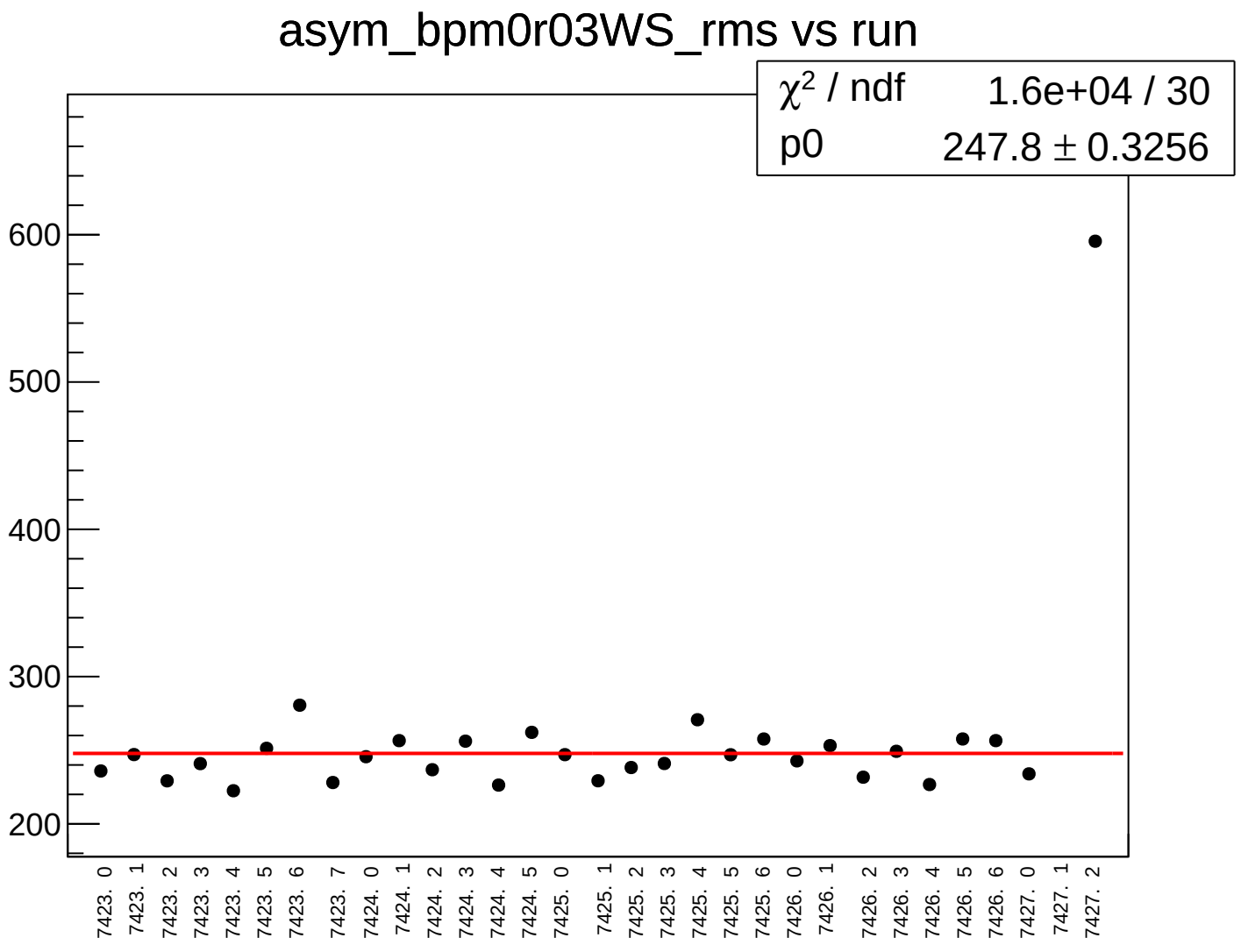

asym_bpm0l10WS_mean vs run
χ² / ndf 25.44 / 30
p0 60.26 ± 388.4
15000
10000
5000
0
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 10.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

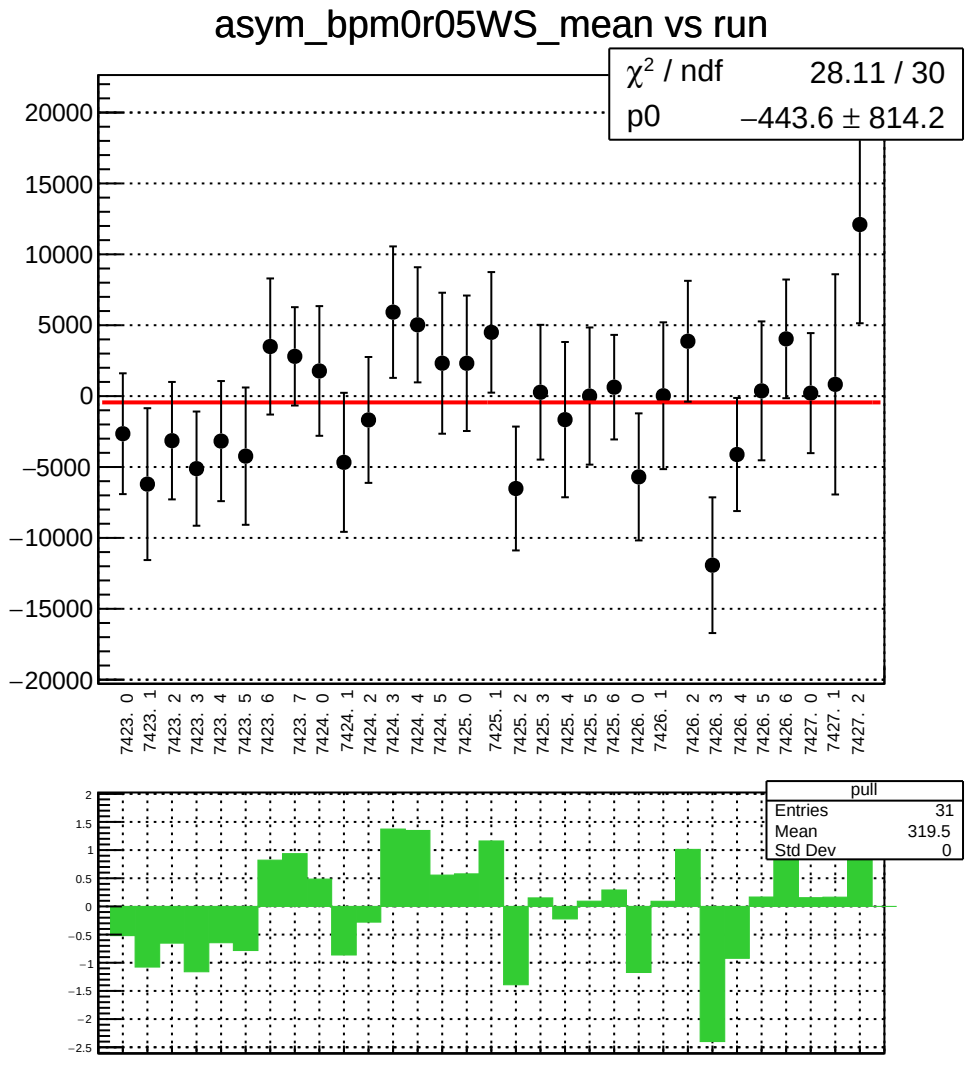

pull1D
Entries 31
Mean 0.02226
Std Dev 0.9056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

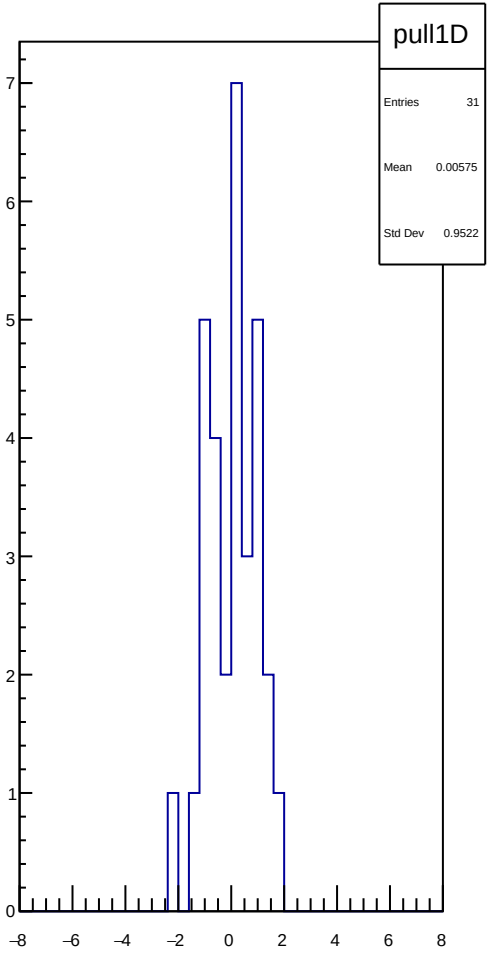

asym_bpm0l10WS_rms vs run
χ² / ndf 1.828e+04 / 30
p0 208.6 ± 0.2746
600
500
400
300
200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

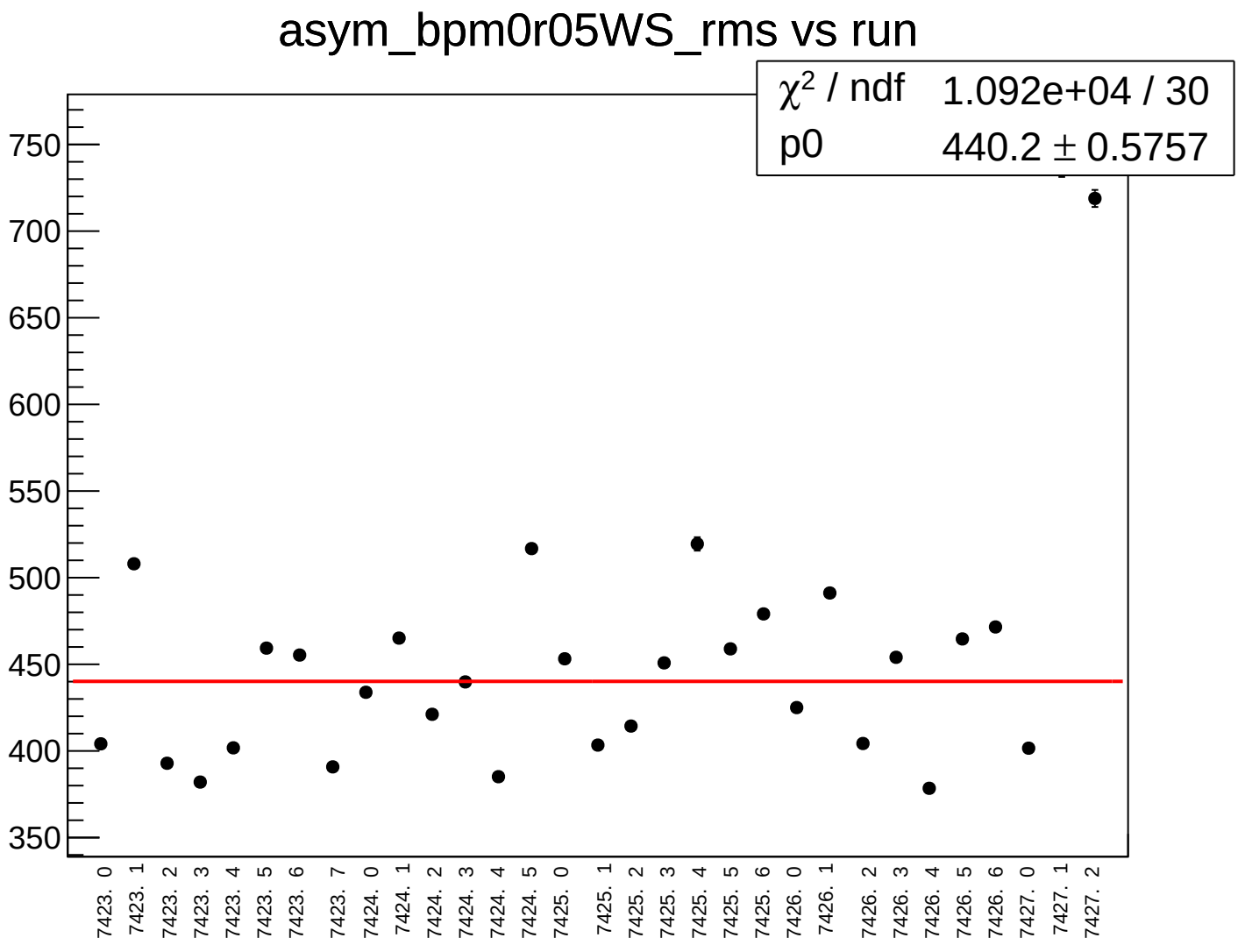

asym_bpm0r03WS_mean vs run
χ² / ndf 37.75 / 30
p0 238.4 ± 460.4
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 614.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

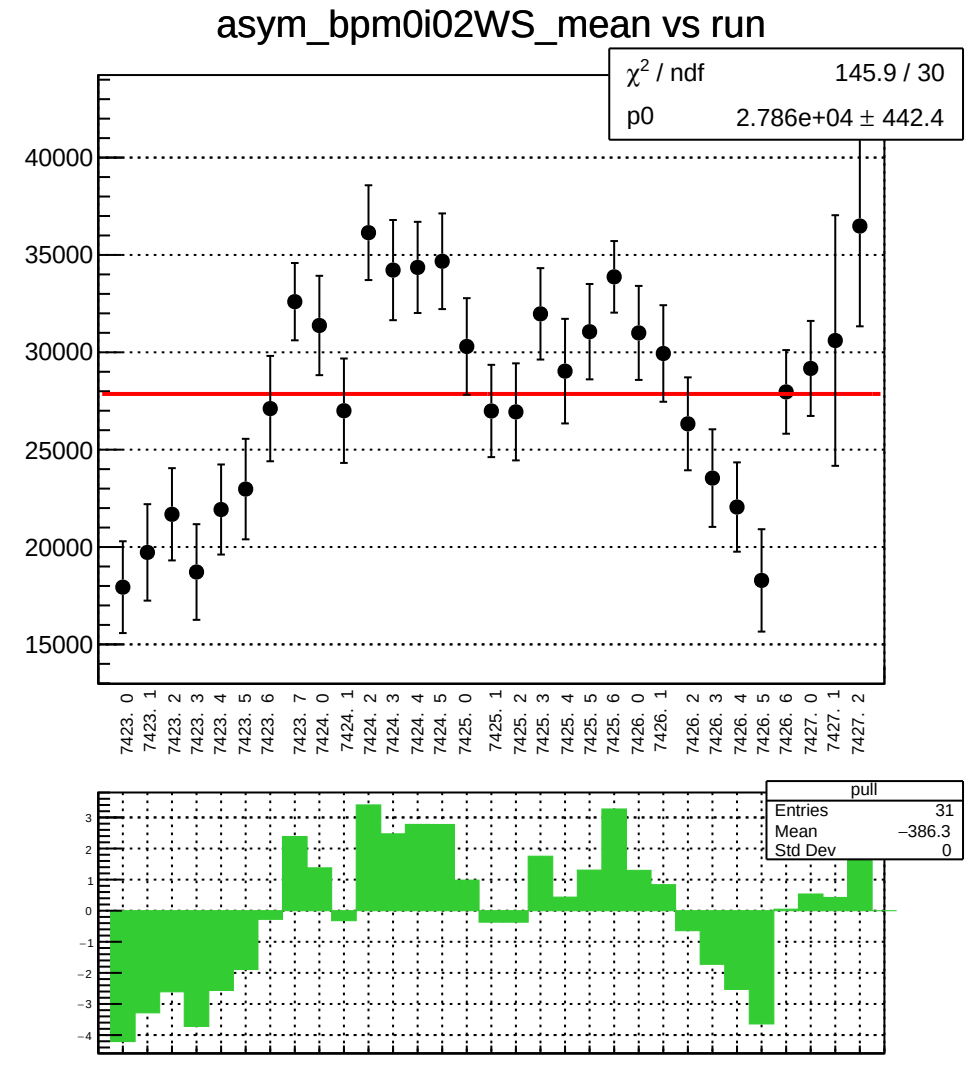

pull1D
Entries 31
Mean 0.0007489
Std Dev 1.103
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

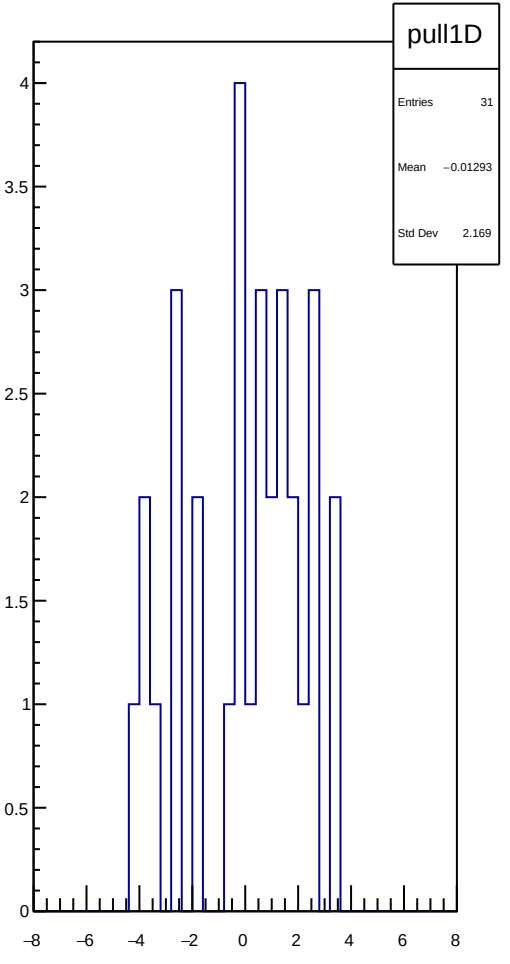

asym_bpm0r03WS_rms vs run
χ² / ndf 1.6e+04 / 30
p0 247.8 ± 0.3256
600
500
400
300
200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

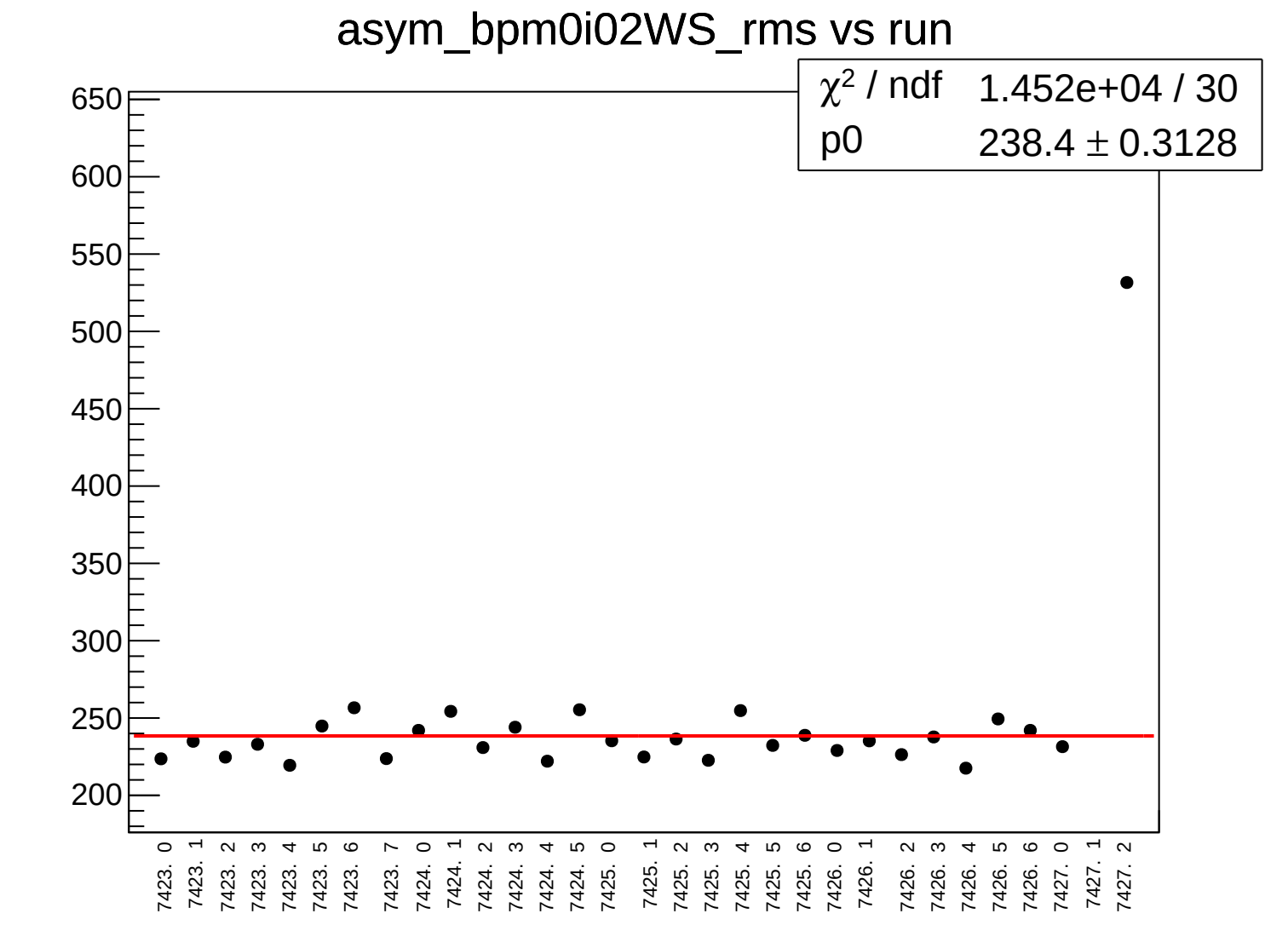

asym_bpm0r05WS_mean vs run
χ² / ndf 28.11 / 30
p0 −443.6 ± 814.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 319.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

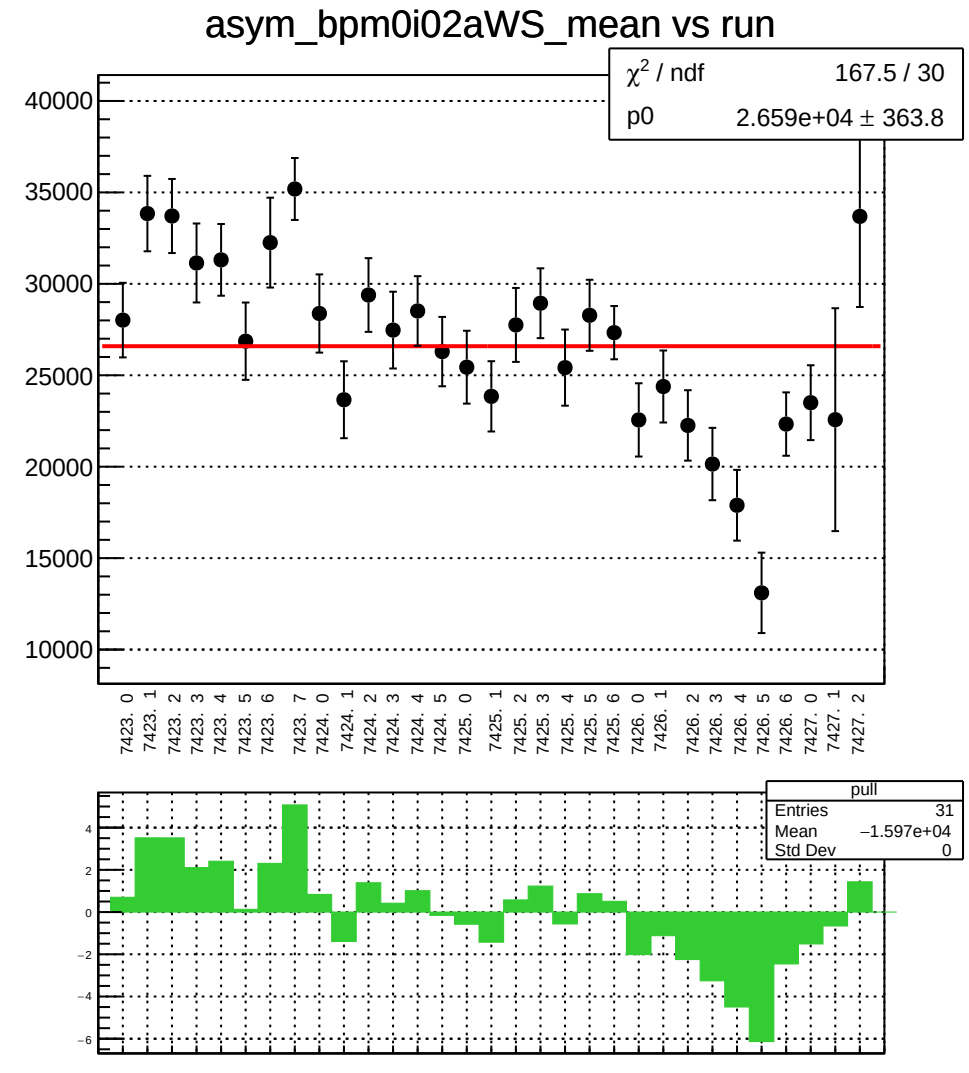

pull1D
Entries 31
Mean 0.00575
Std Dev 0.9522
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

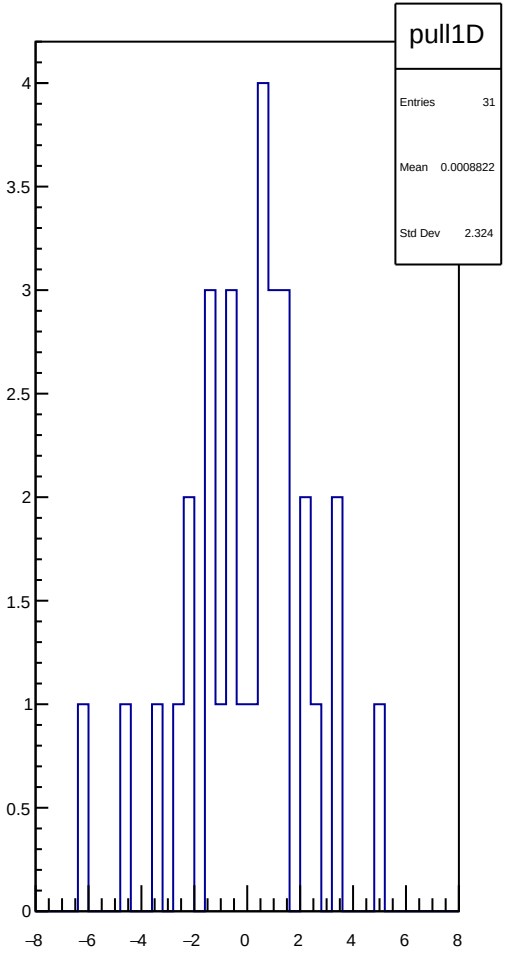

asym_bpm0r05WS_rms vs run
χ² / ndf 1.092e+04 / 30
p0 440.2 ± 0.5757
750
700
650
600
550
500
450
400
350
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

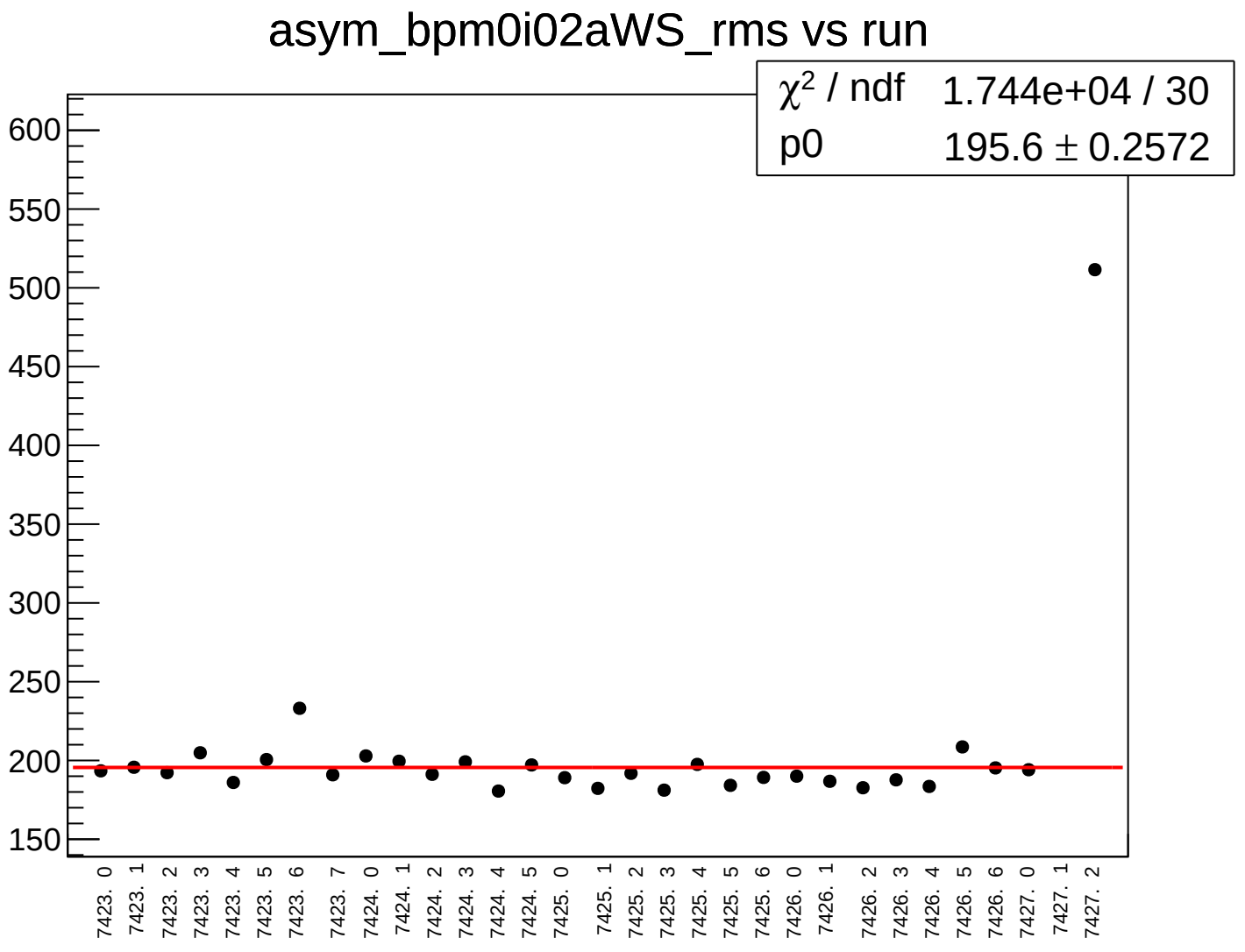

asym_bpm0i02WS_mean vs run
χ² / ndf 145.9 / 30
p0 2.786e+04 ± 442.4
40000
35000
30000
25000
20000
15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −386.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4

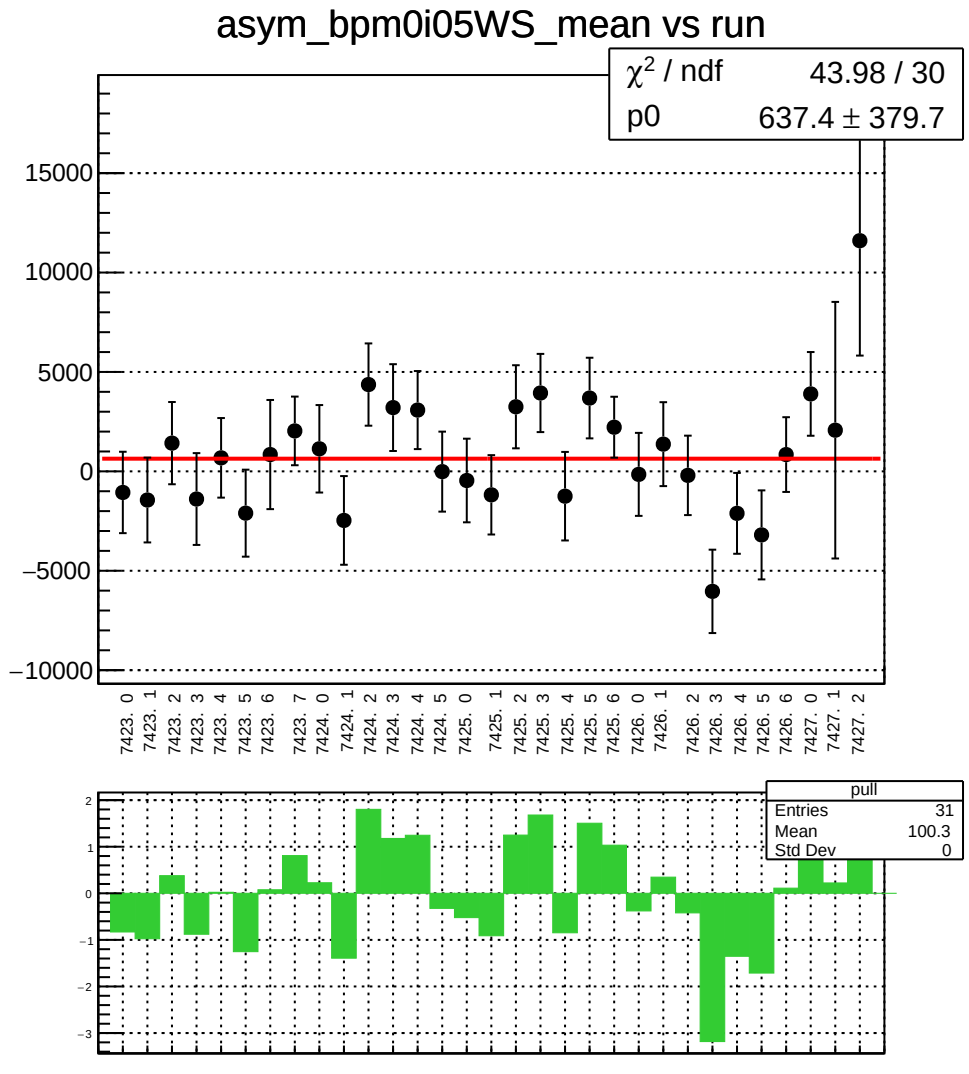

pull1D
Entries 31
Mean −0.01293
Std Dev 2.169
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

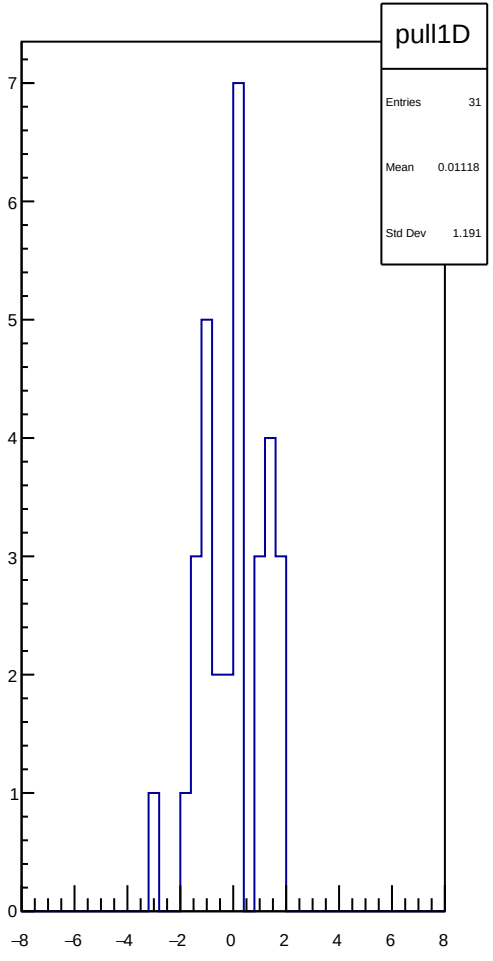

asym_bpm0i02WS_rms vs run
χ² / ndf 1.452e+04 / 30
p0 238.4 ± 0.3128
650
600
550
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

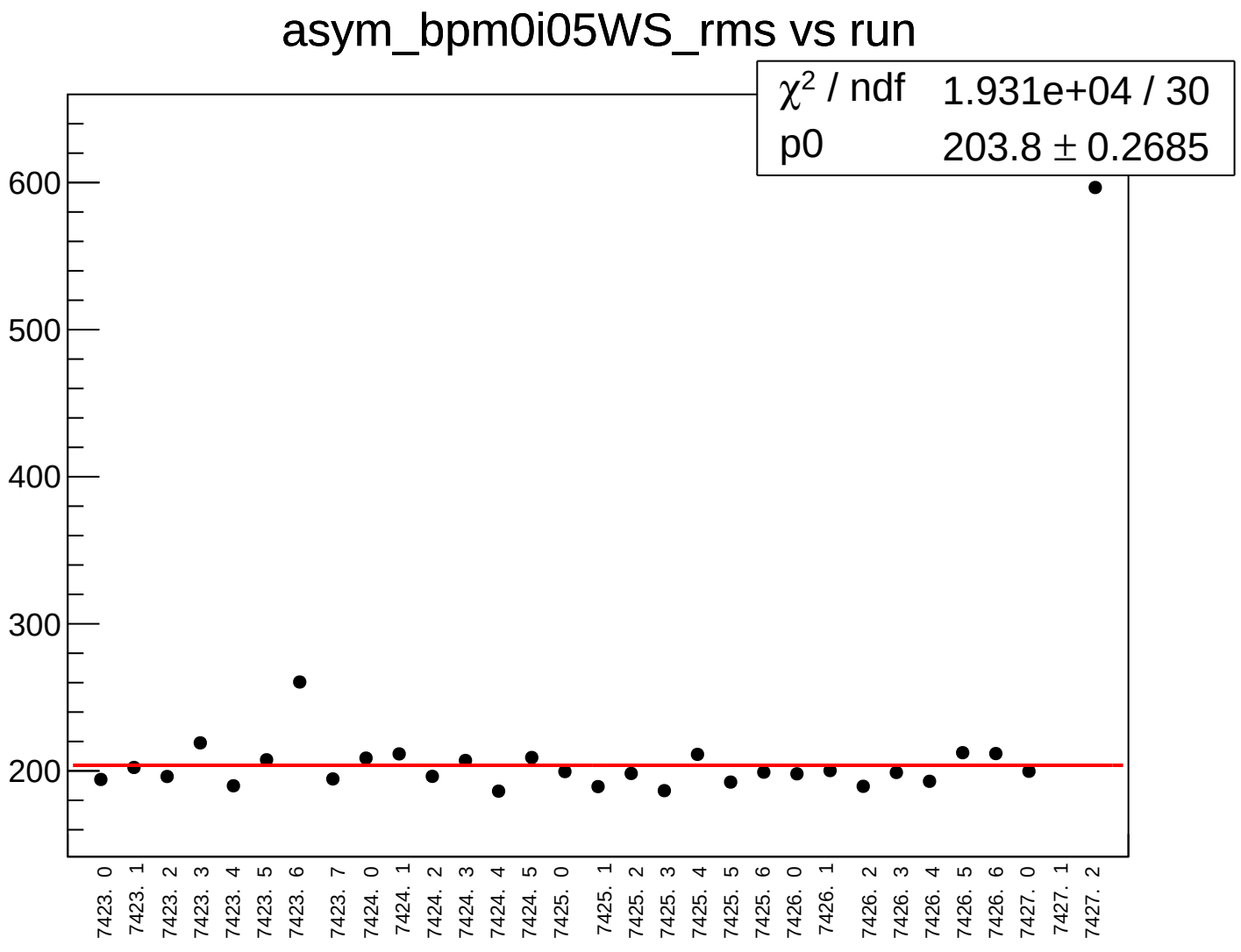

asym_bpm0i02aWS_mean vs run
χ² / ndf 167.5 / 30
p0 2.659e+04 ± 363.8
40000
35000
30000
25000
20000
15000
10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1.597e+04
Std Dev 0
4
2
0
−2
−4
−6

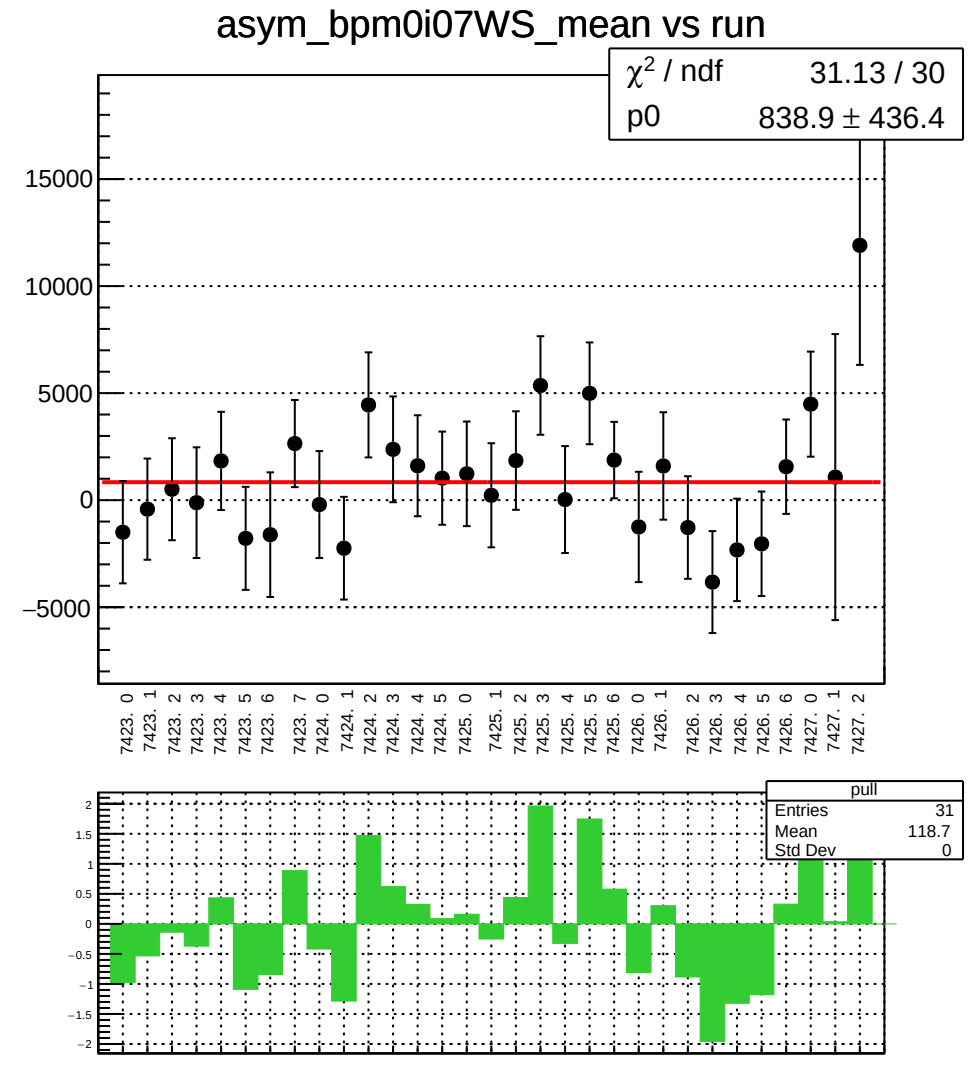

pull1D
Entries 31
Mean 0.0008822
Std Dev 2.324
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

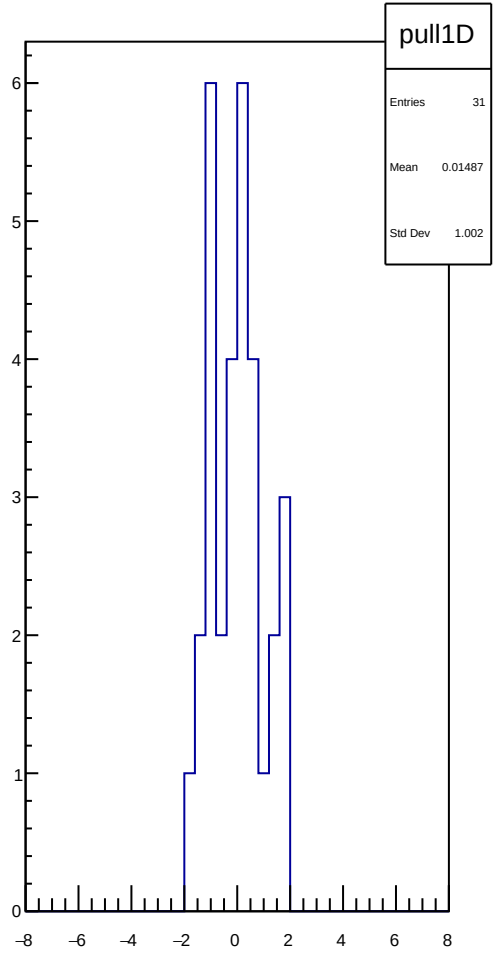

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.744e+04 / 30
p0 195.6 ± 0.2572
600
550
500
450
400
350
300
250
200
150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

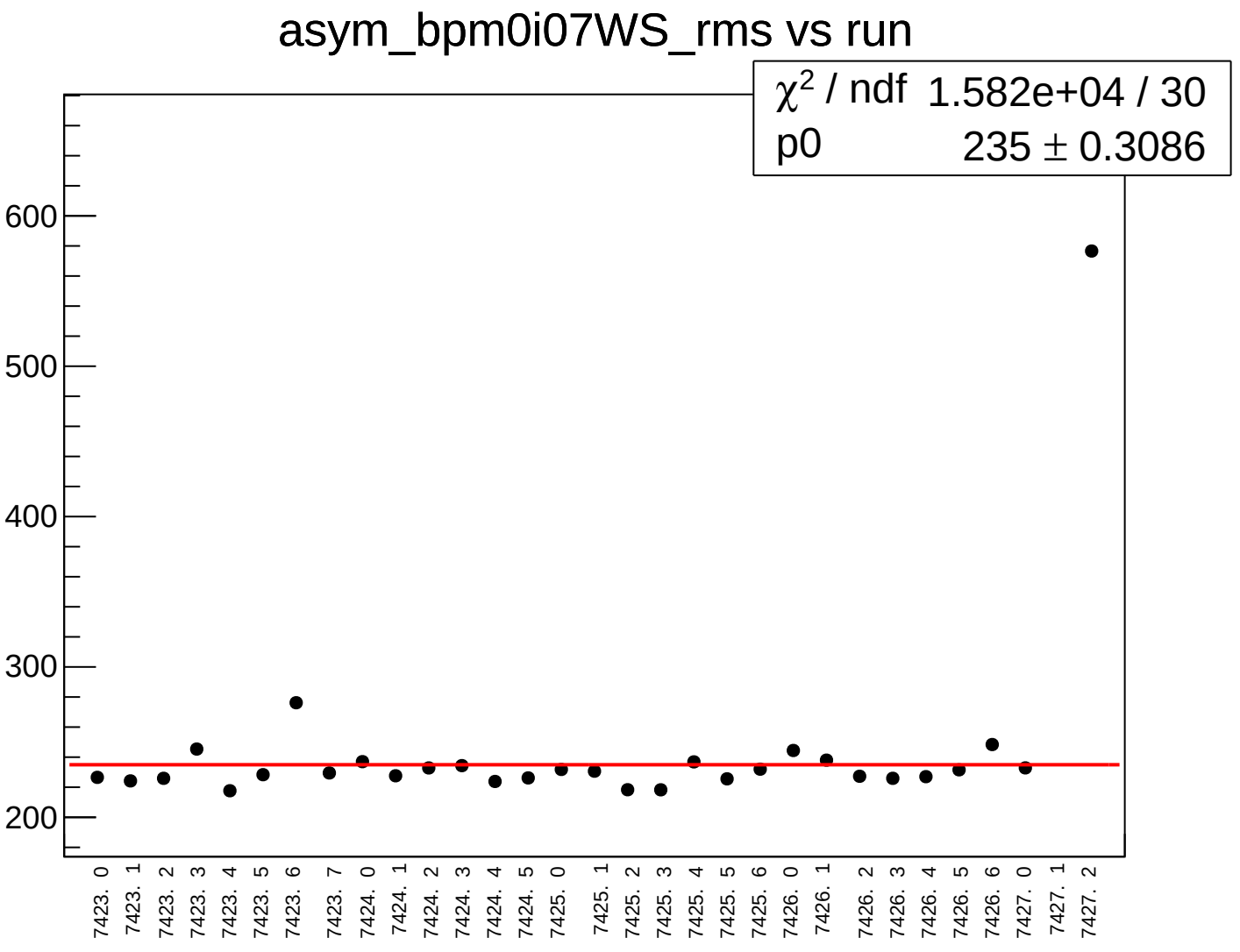

asym_bpm0i05WS_mean vs run
χ² / ndf 43.98 / 30
p0 637.4 ± 379.7
15000
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 100.3
Std Dev 0
2
1
0
−1
−2
−3

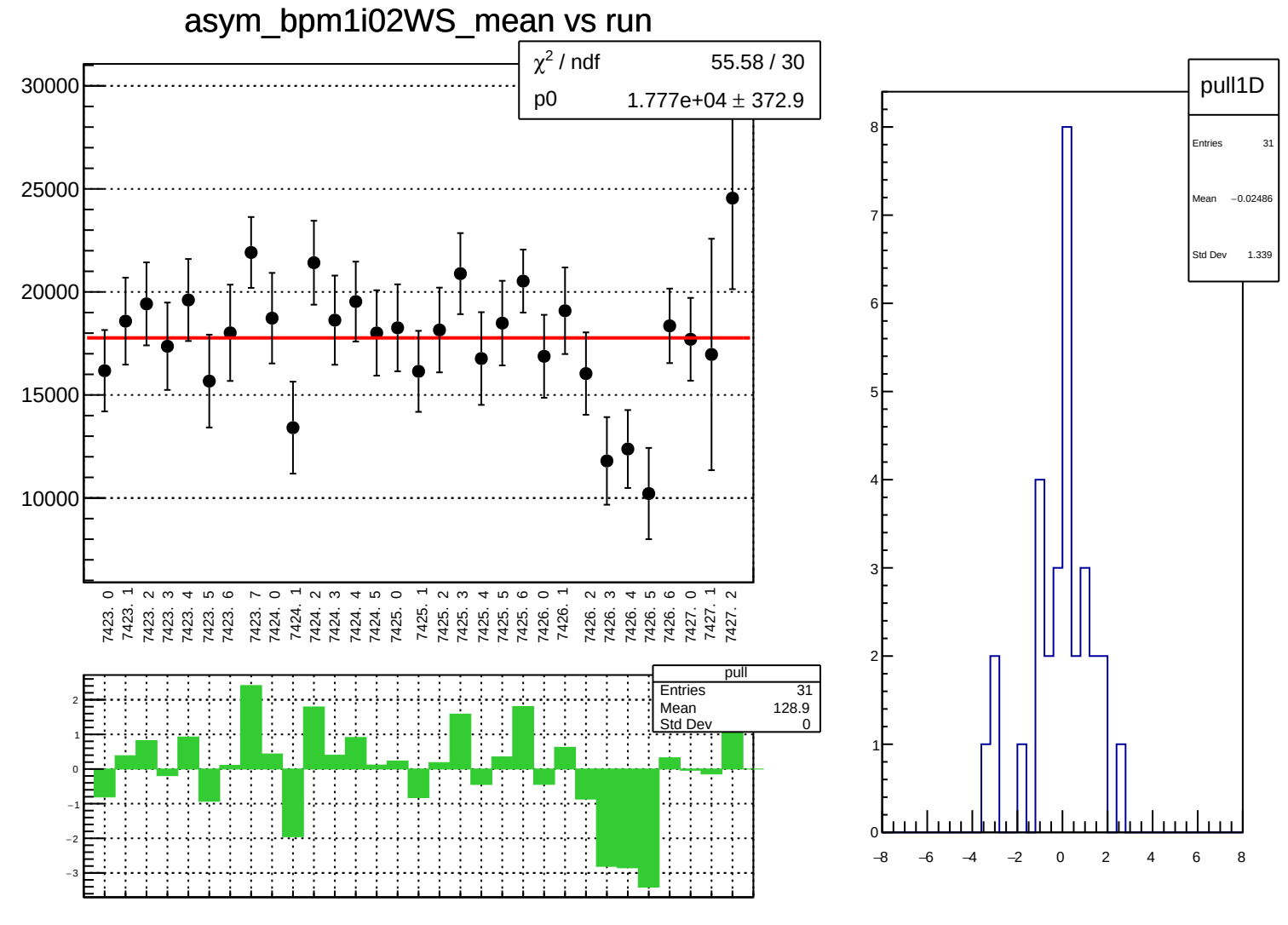

pull1D
Entries 31
Mean 0.01118
Std Dev 1.191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

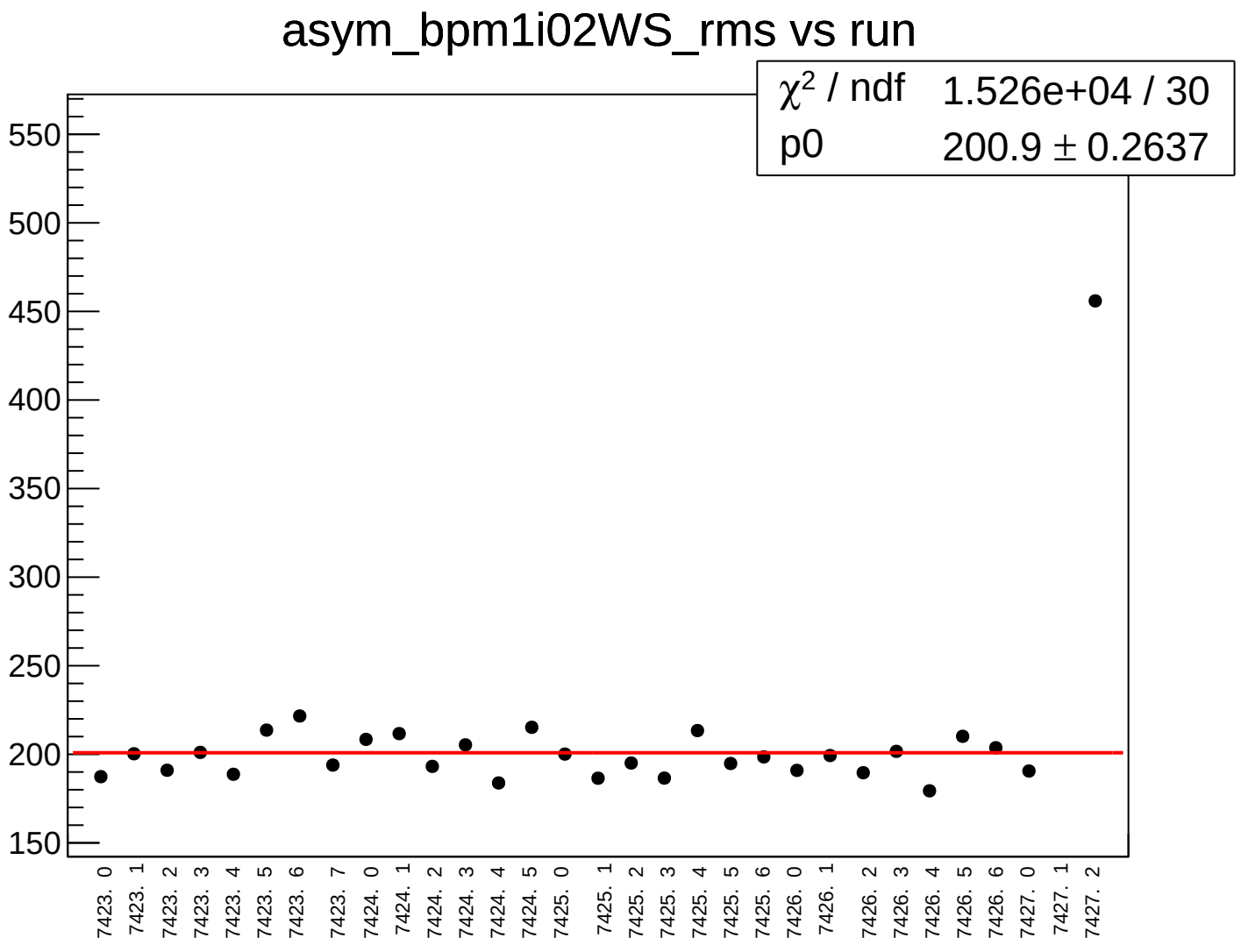

asym_bpm0i05WS_rms vs run
χ² / ndf 1.931e+04 / 30
p0 203.8 ± 0.2685
600
500
400
300
200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

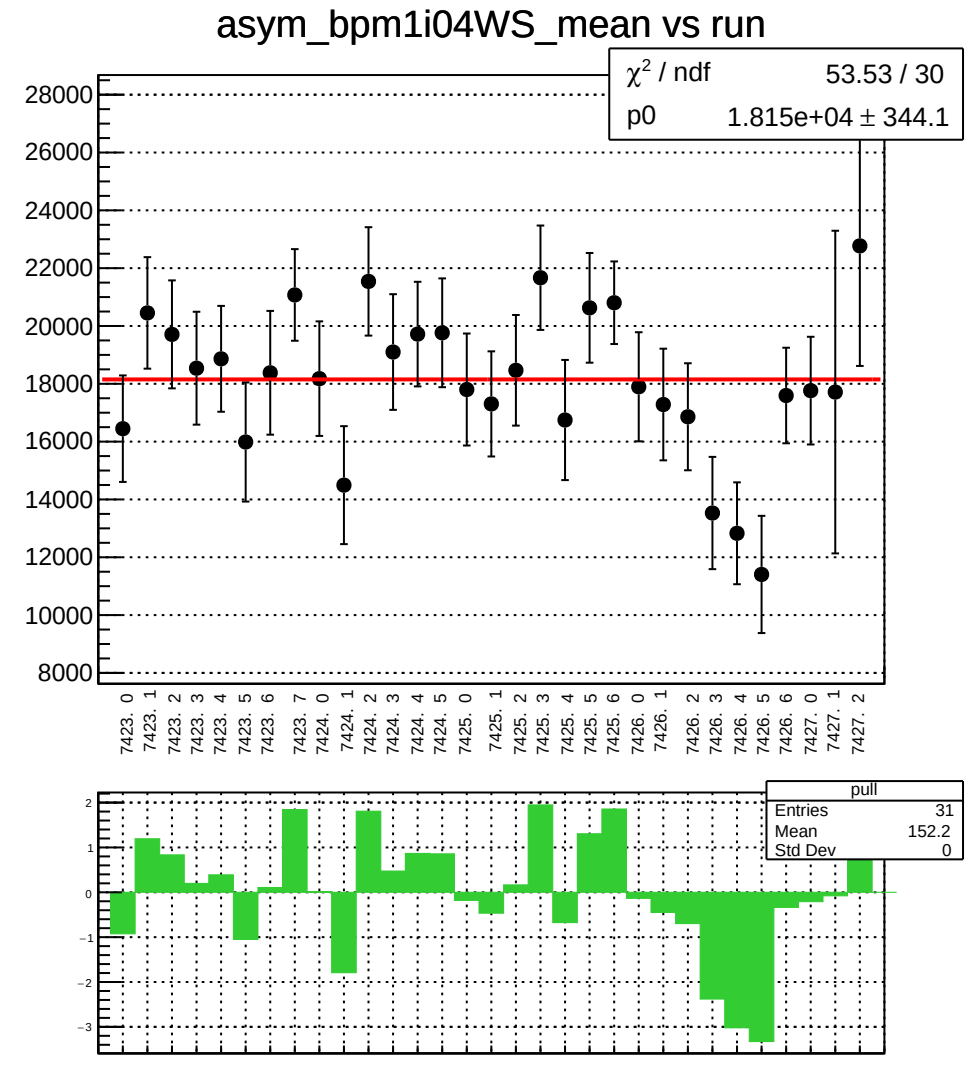

asym_bpm0i07WS_mean vs run
χ² / ndf 31.13 / 30
p0 838.9 ± 436.4
15000
10000
5000
0
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 118.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

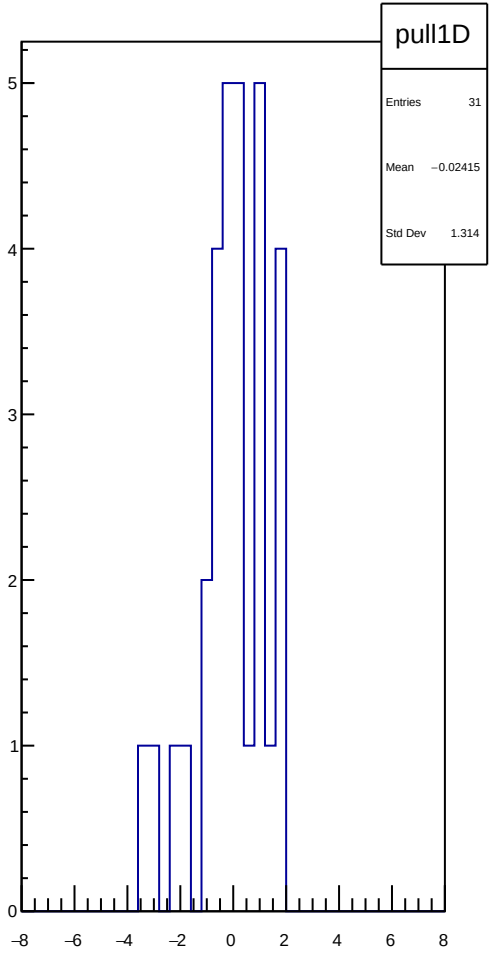

pull1D
Entries 31
Mean 0.01487
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

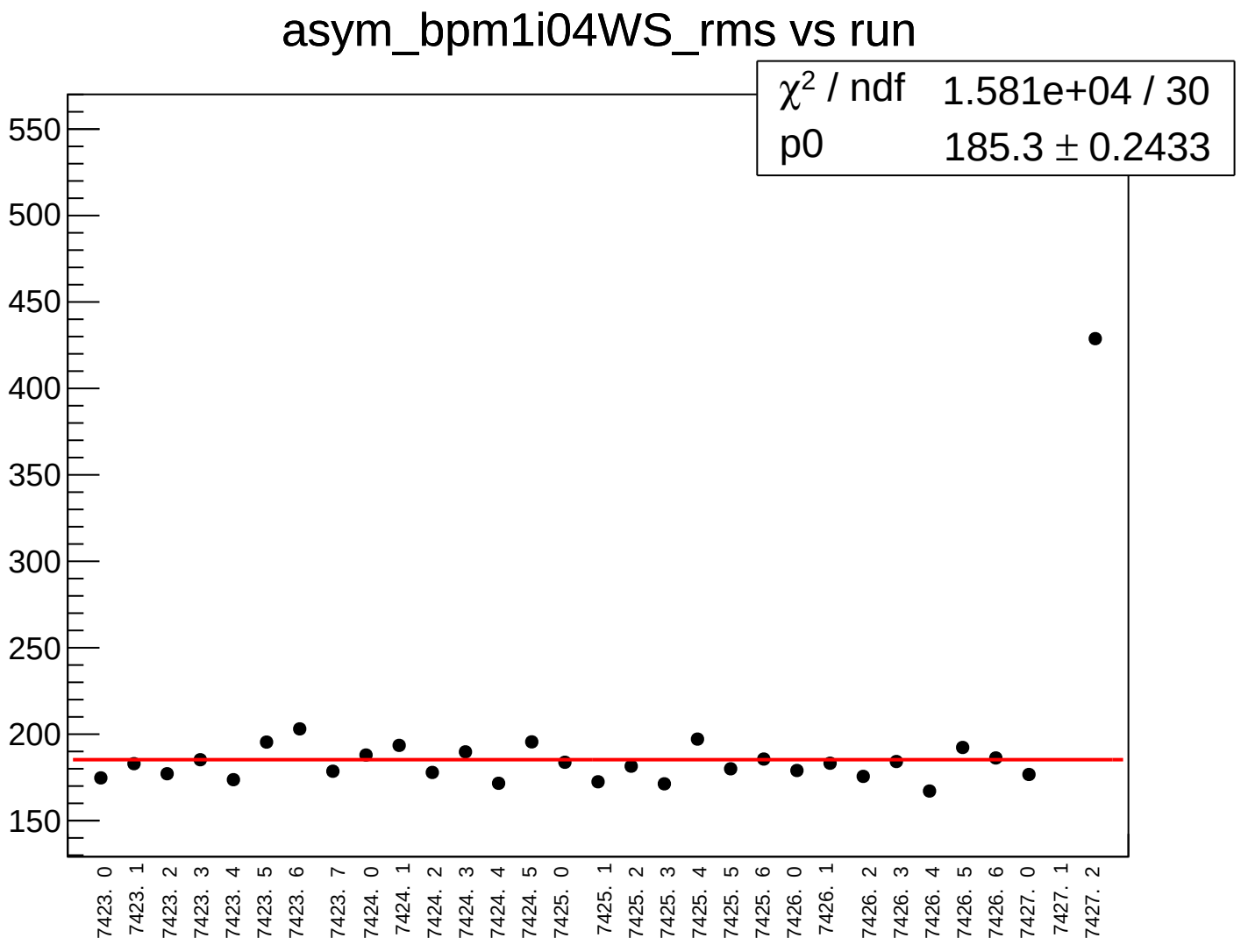

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.582e+04 / 30
p0 235 ± 0.3086
600
500
400
300
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

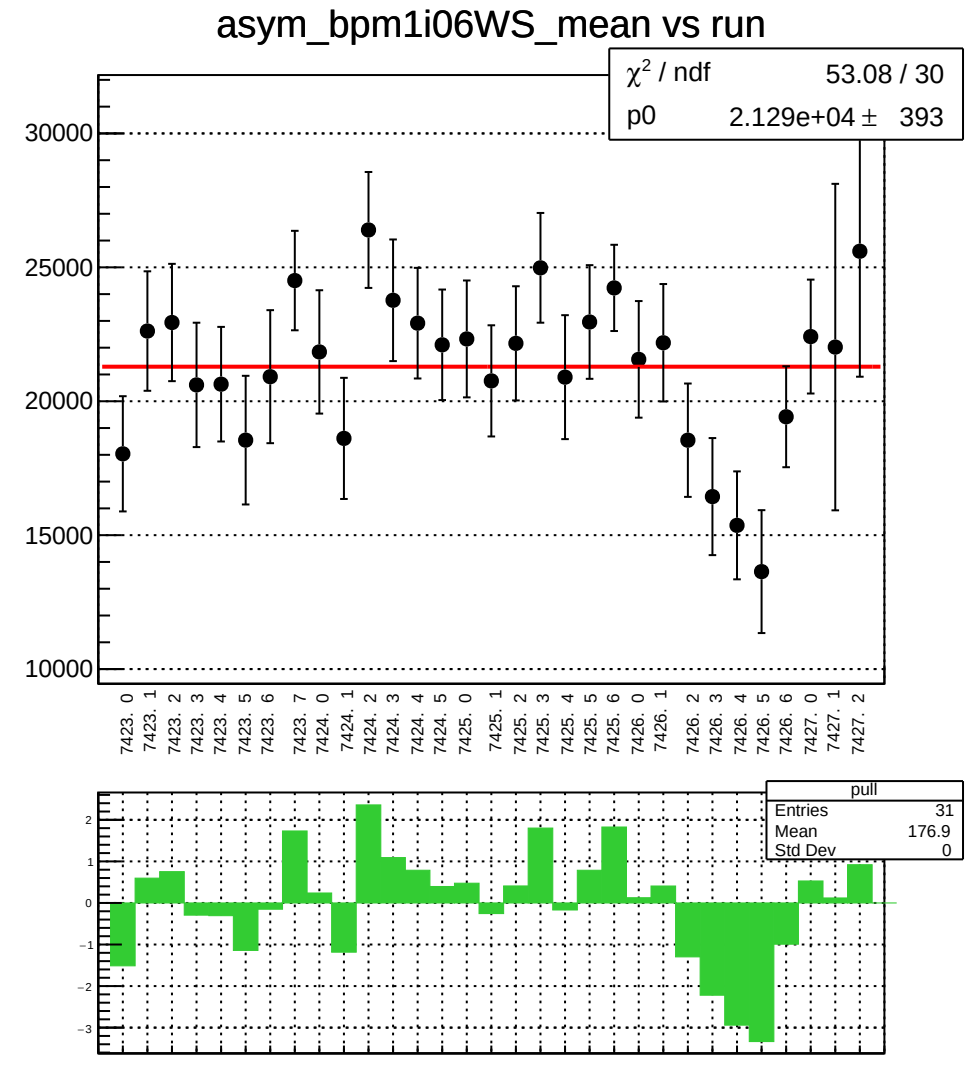

asym_bpm1i02WS_mean vs run
χ² / ndf 55.58 / 30
p0 1.777e+04 ± 372.9
30000
25000
20000
15000
10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 128.9
Std Dev 0
pull1D
Entries 31
Mean −0.02486
Std Dev 1.339

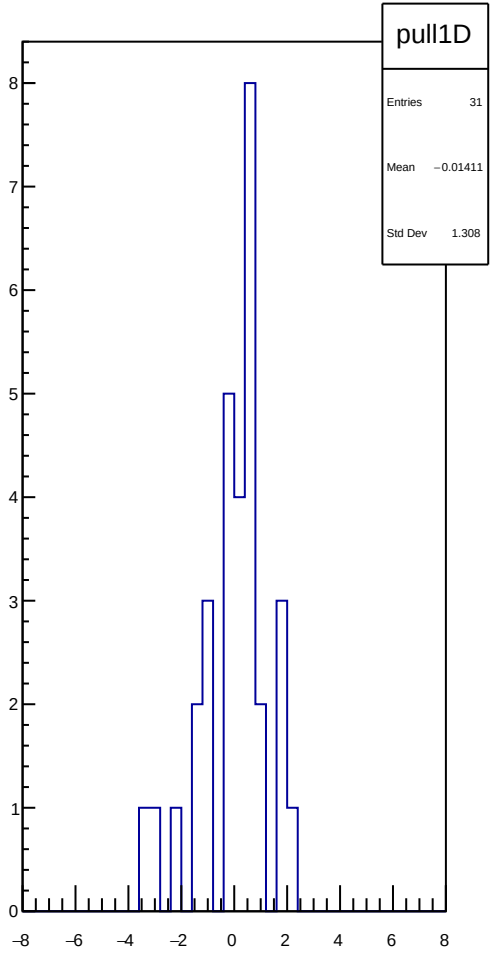

asym_bpm1i02WS_rms vs run
χ² / ndf 1.526e+04 / 30
p0 200.9 ± 0.2637
550
500
450
400
350
300
250
200
150
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

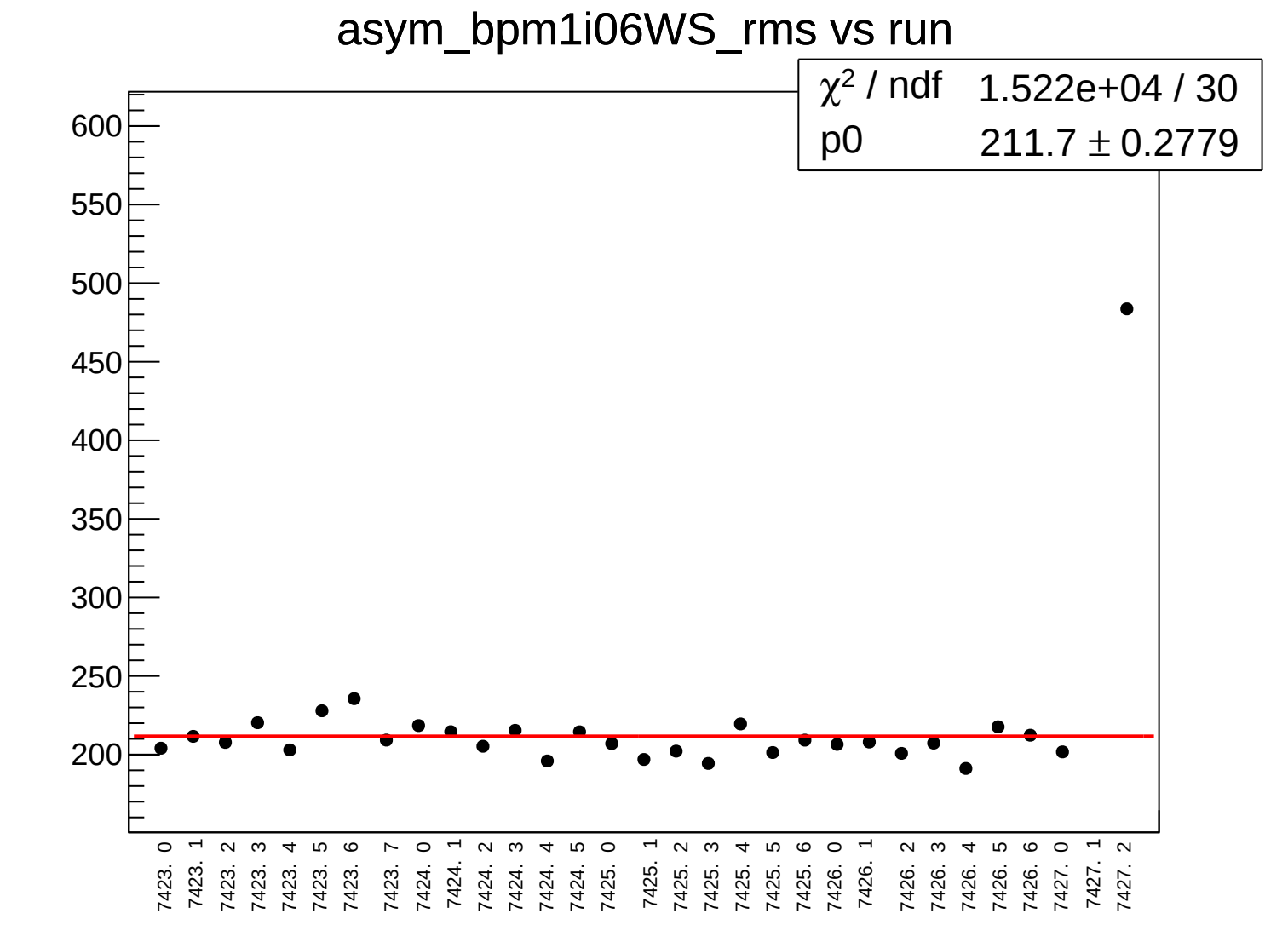

asym_bpm1i04WS_mean vs run
χ² / ndf 53.53 / 30
p0 1.815e+04 ± 344.1
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 152.2
Std Dev 0
2
1
0
−1
−2
−3

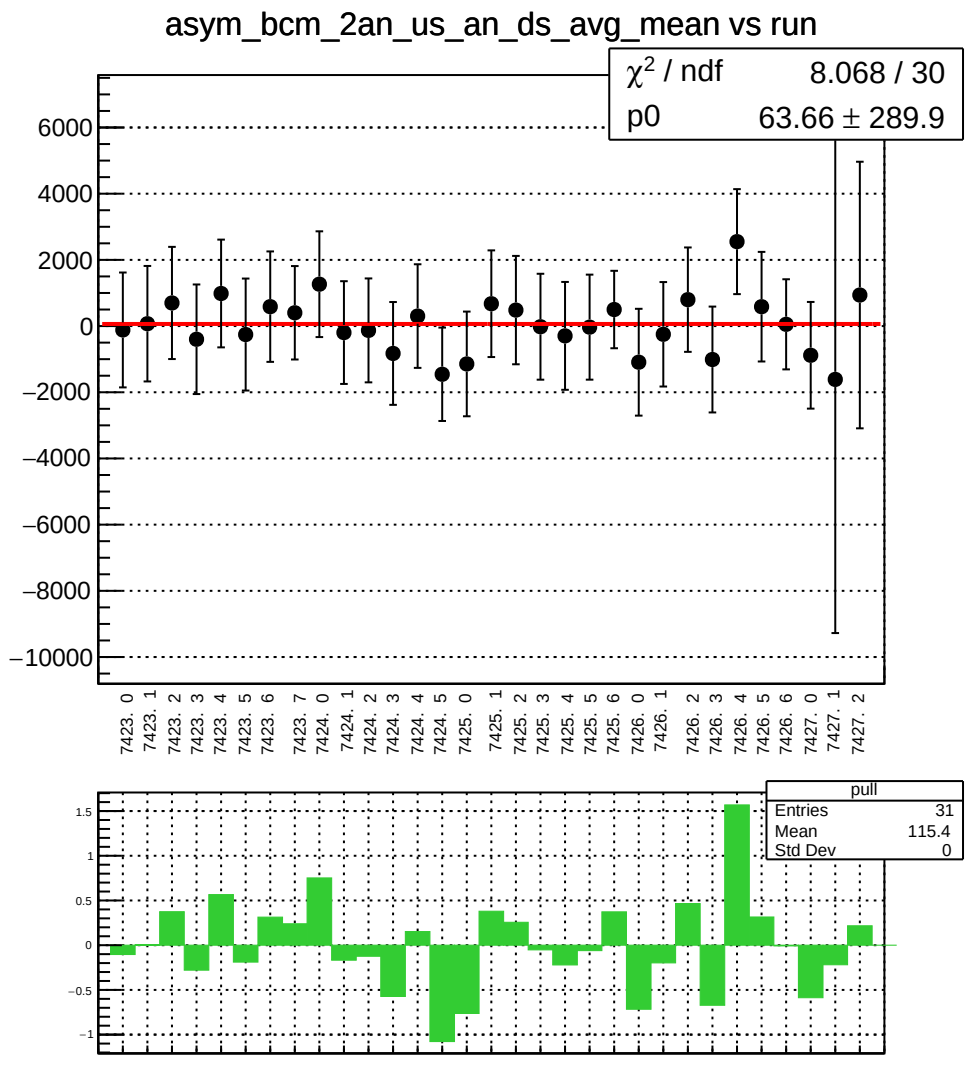

pull1D
Entries 31
Mean −0.02415
Std Dev 1.314
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

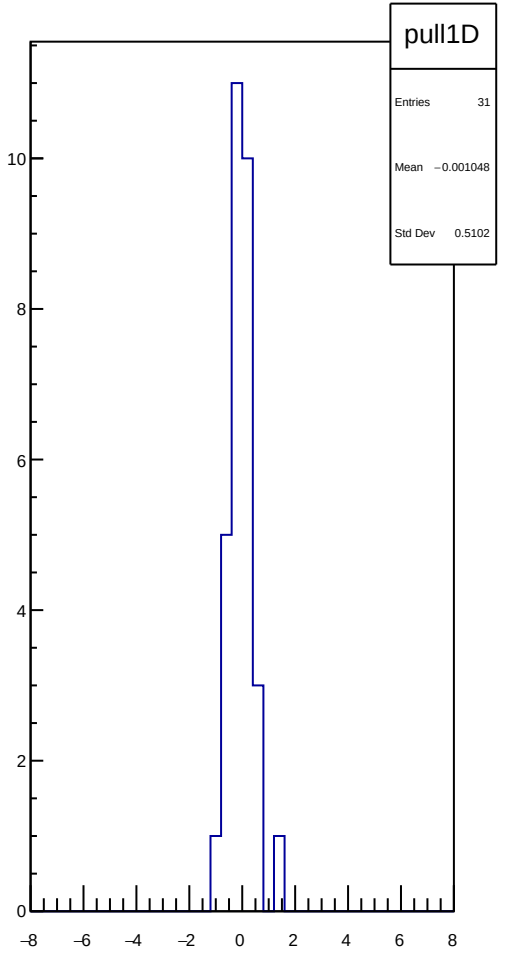

asym_bpm1i04WS_rms vs run
χ² / ndf 1.581e+04 / 30
p0 185.3 ± 0.2433
550
500
450
400
350
300
250
200
150
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

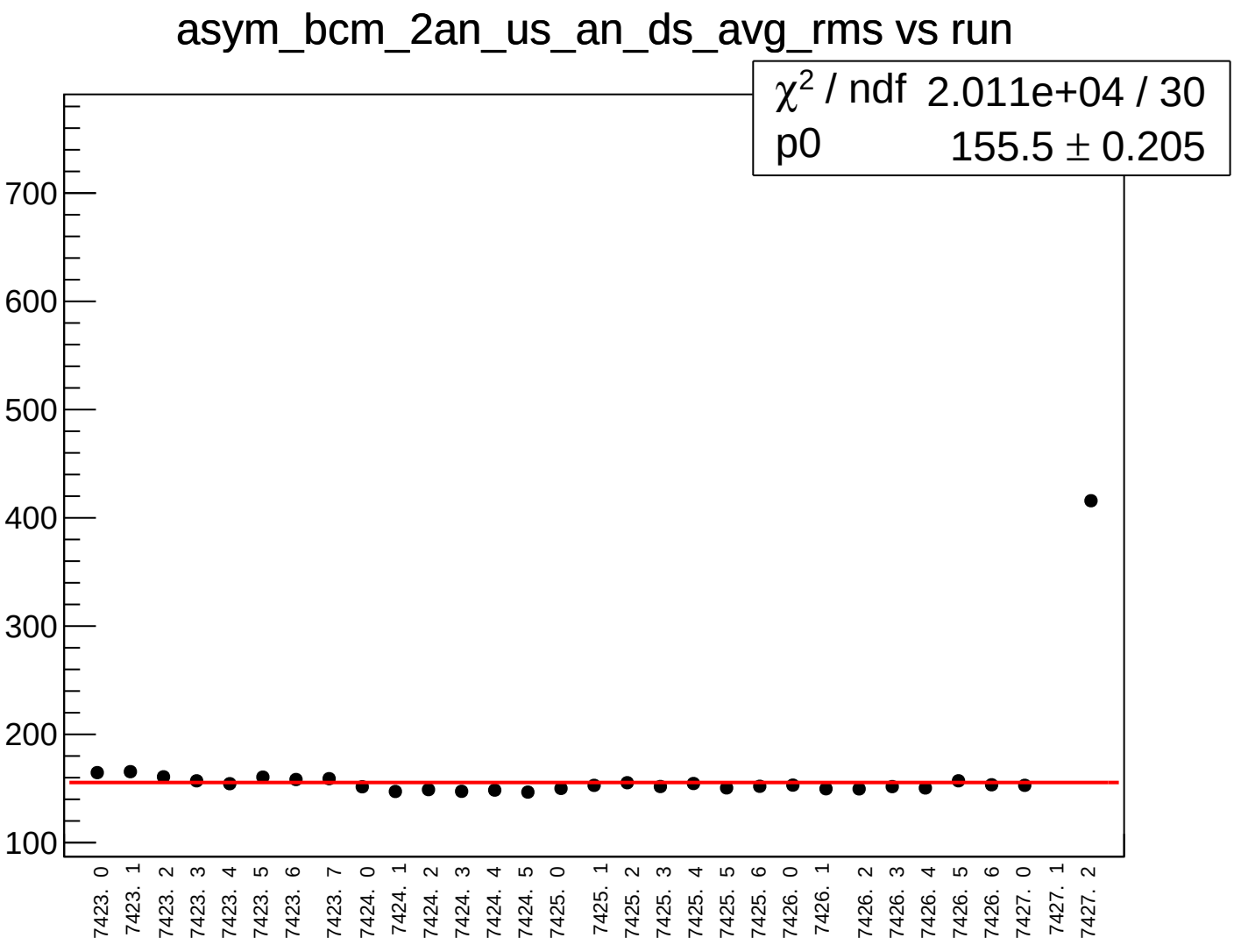

asym_bpm1i06WS_mean vs run
χ² / ndf 53.08 / 30
p0 2.129e+04 ± 393
30000
25000
20000
15000
10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 176.9
Std Dev 0
2
1
0
−1
−2
−3

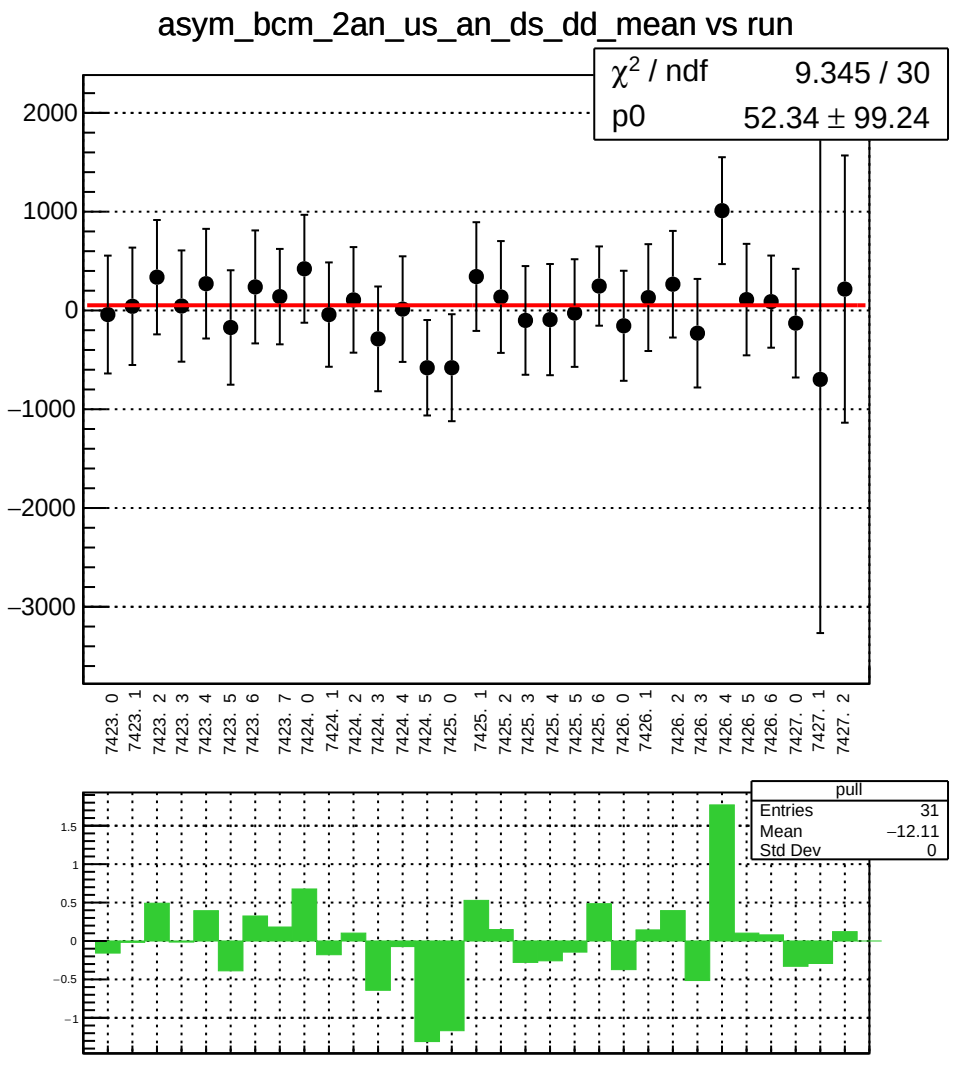

pull1D
Entries 31
Mean −0.01411
Std Dev 1.308
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

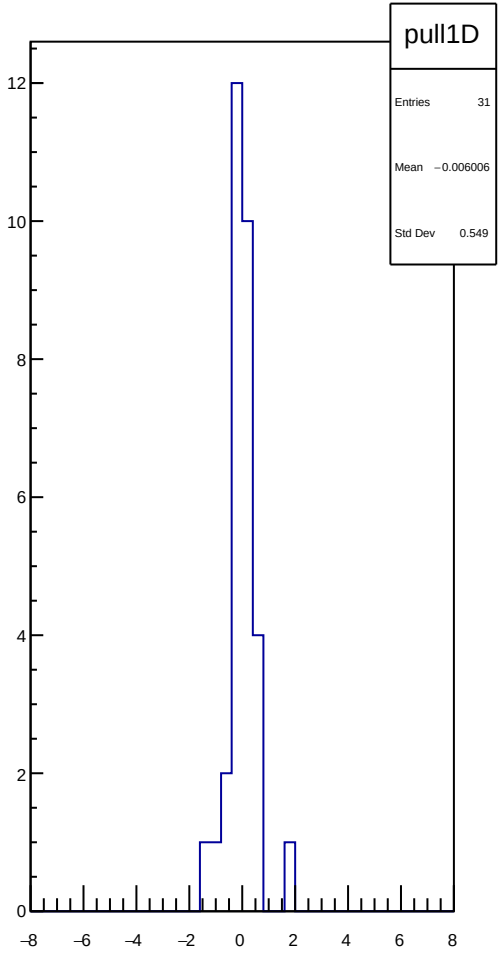

asym_bpm1i06WS_rms vs run
χ² / ndf 1.522e+04 / 30
p0 211.7 ± 0.2779
600
550
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

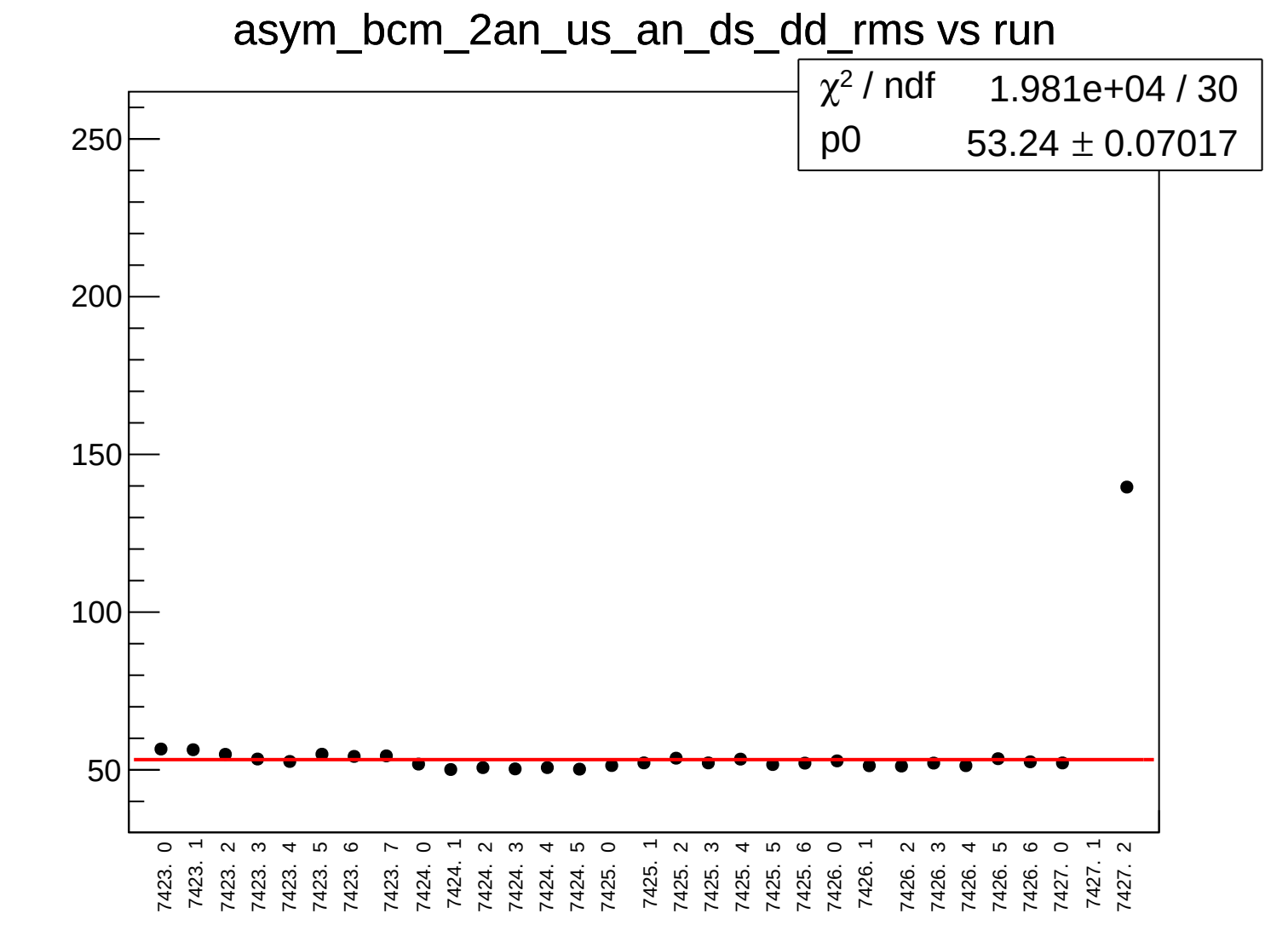

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 8.068 / 30
p0 63.66 ± 289.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 115.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

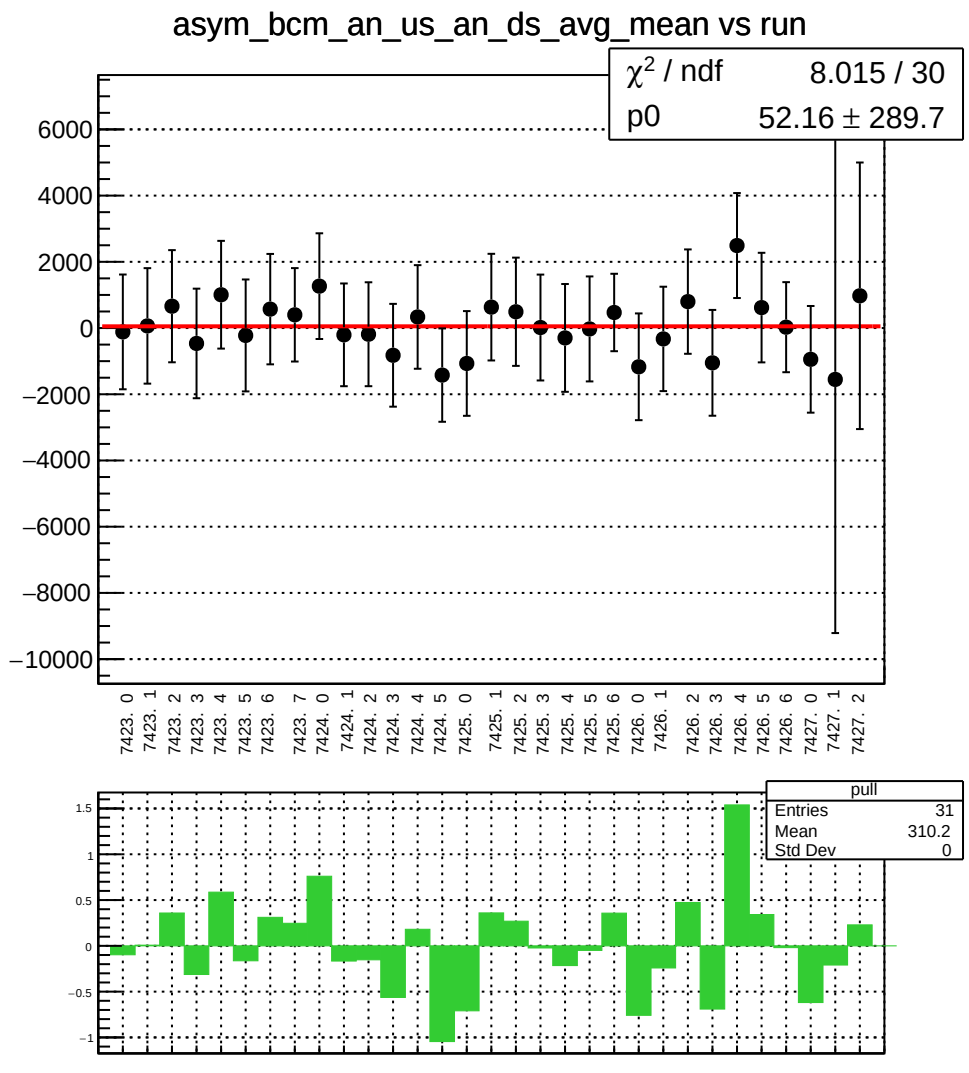

pull1D
Entries 31
Mean −0.001048
Std Dev 0.5102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

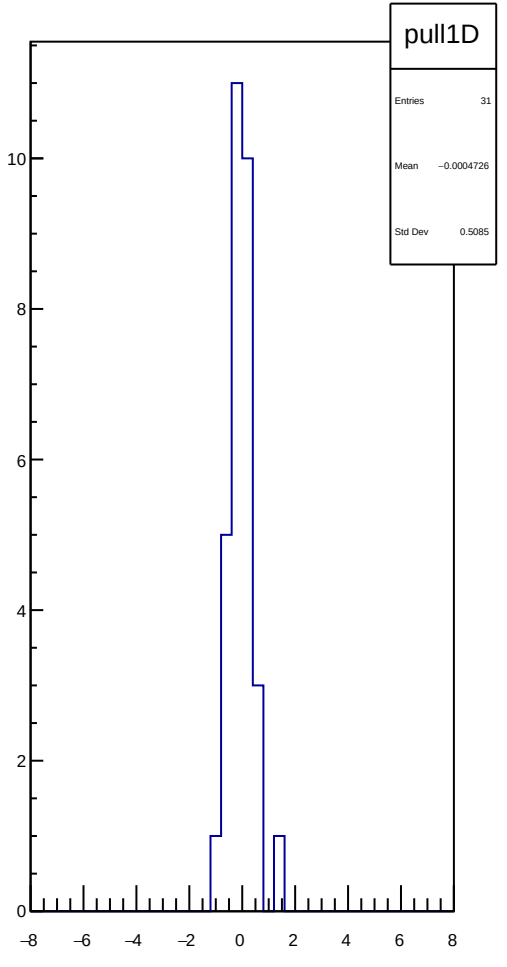

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2.011e+04 / 30
p0 155.5 ± 0.205
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

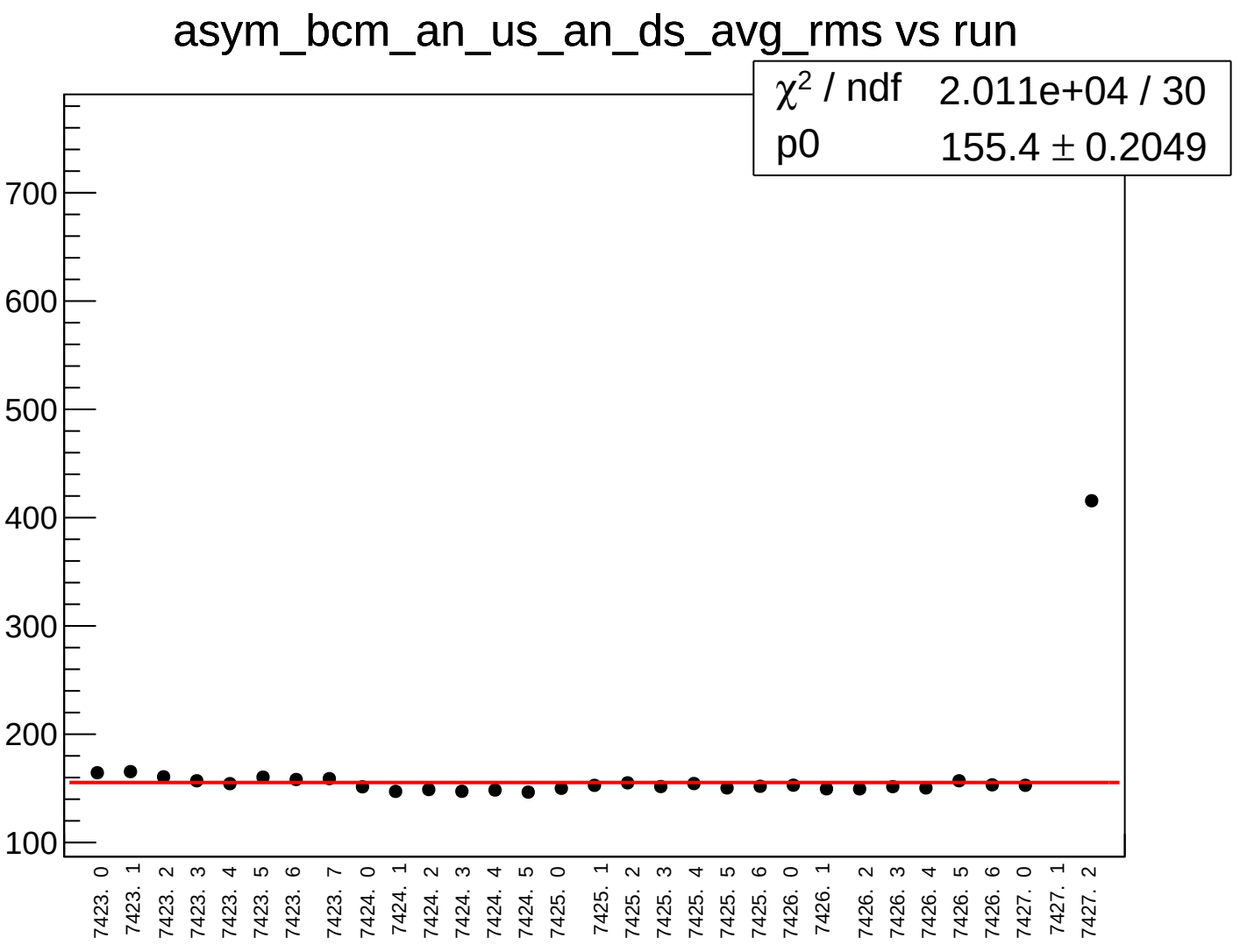

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 9.345 / 30
p0 52.34 ± 99.24
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −12.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1

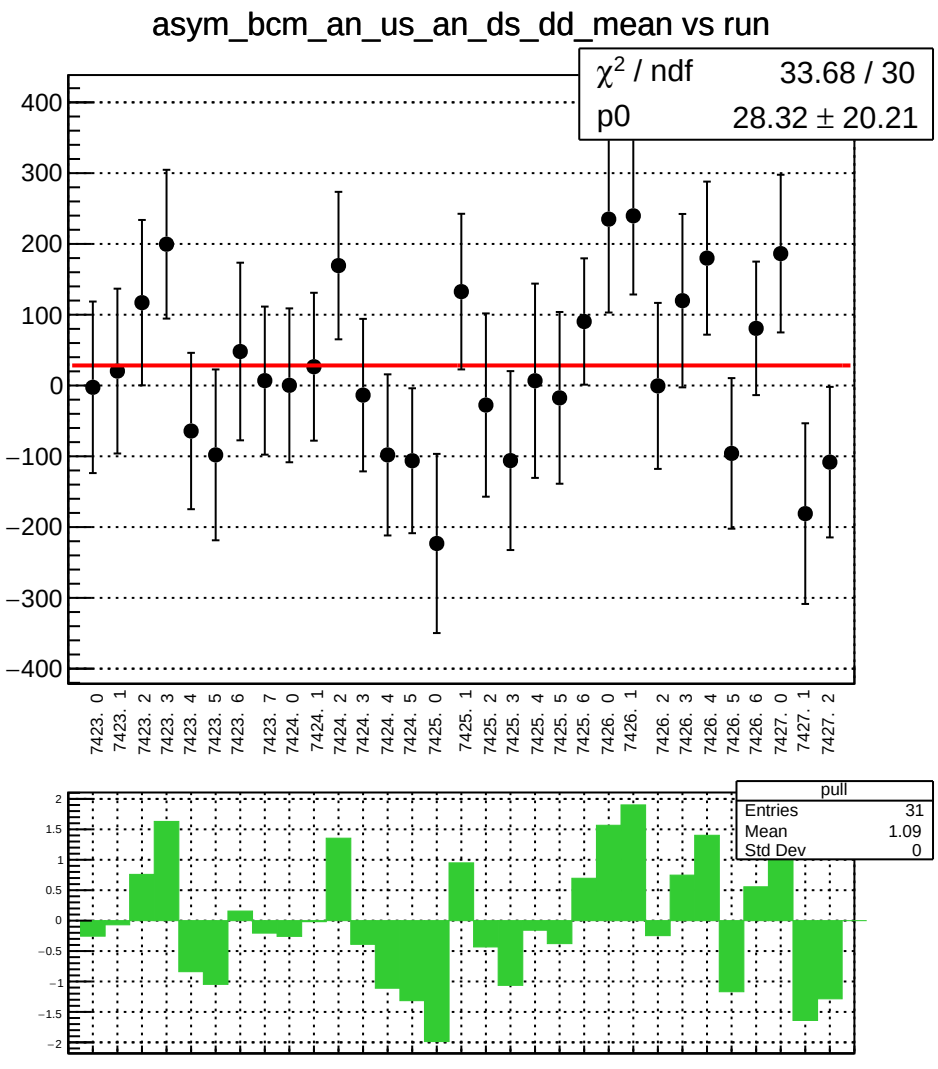

pull1D
Entries 31
Mean −0.006006
Std Dev 0.549
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

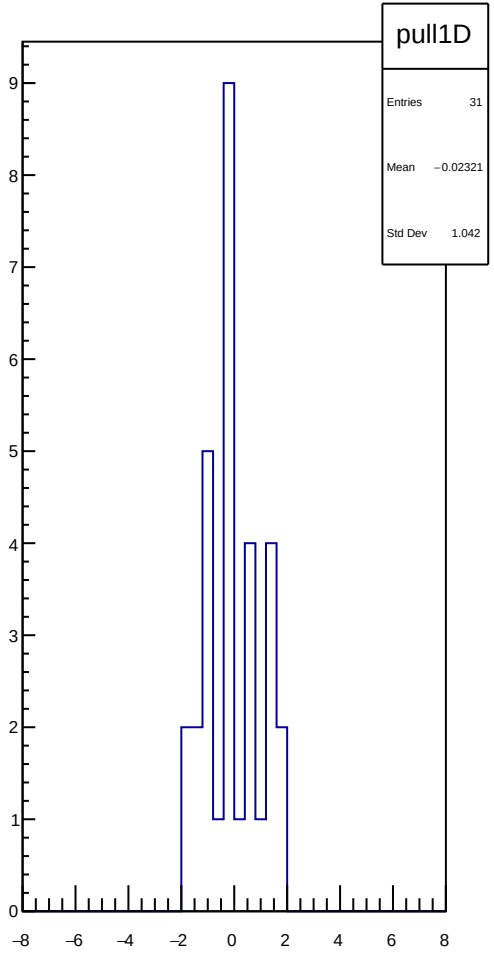

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.981e+04 / 30
p0 53.24 ± 0.07017
250
200
150
100
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

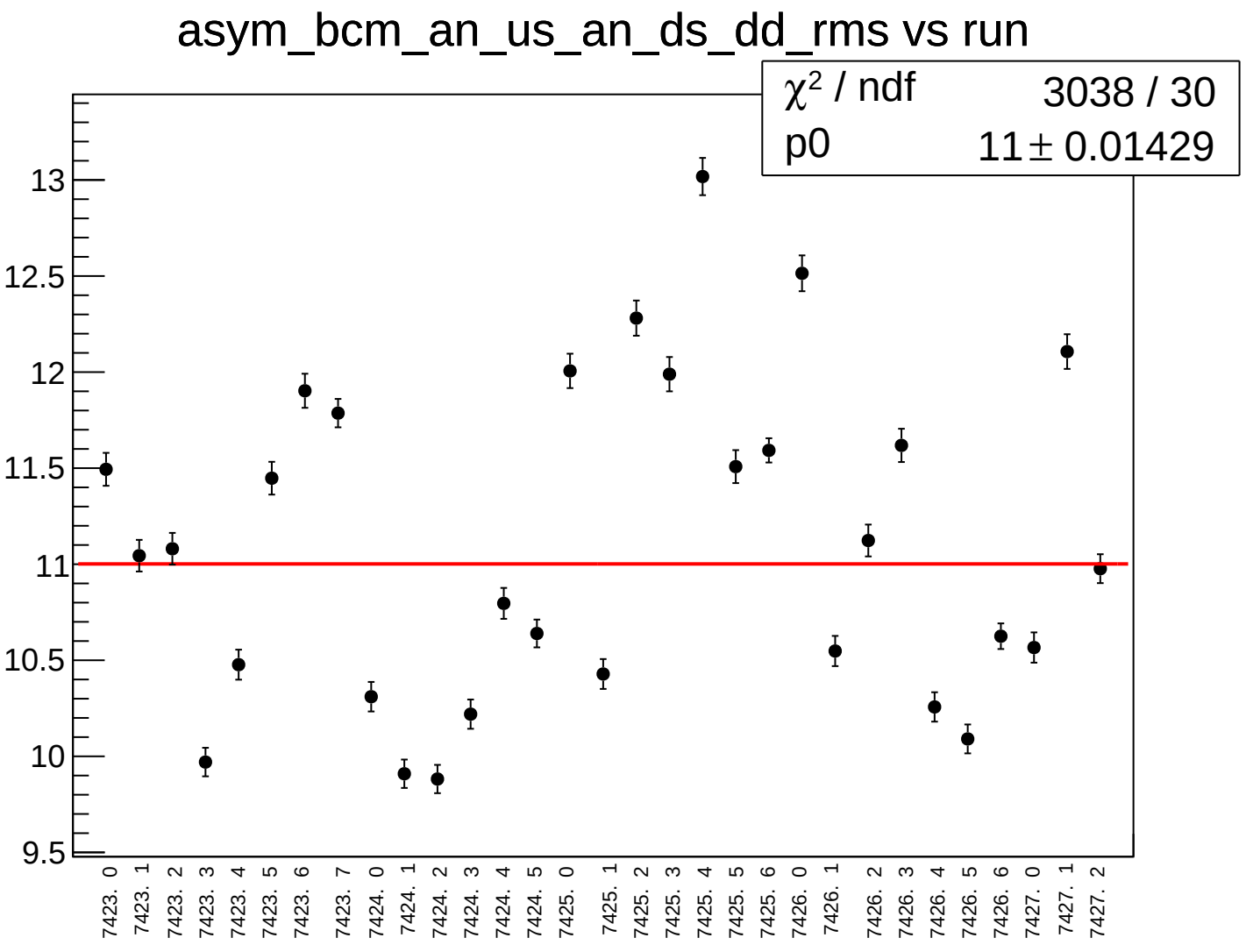

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 8.015 / 30
p0 52.16 ± 289.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 310.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

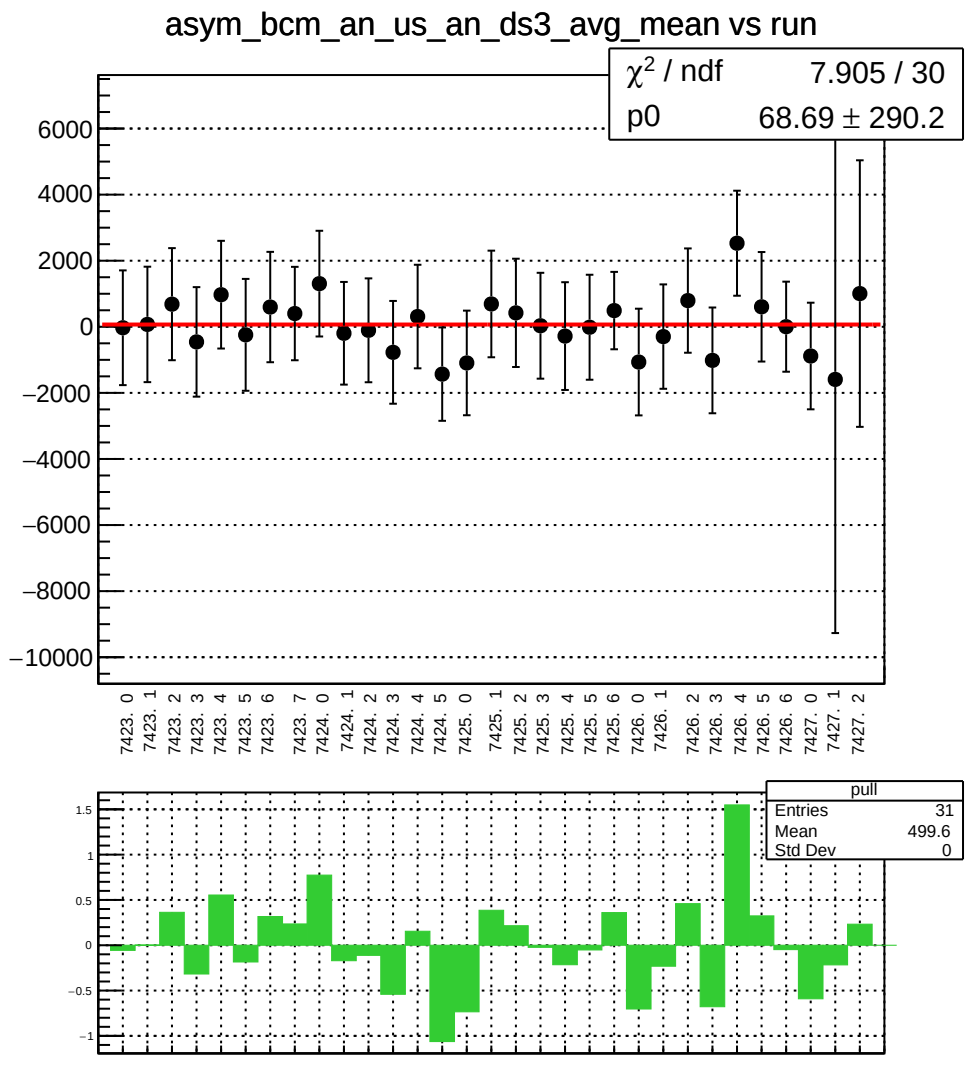

pull1D
Entries 31
Mean −0.0004726
Std Dev 0.5085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

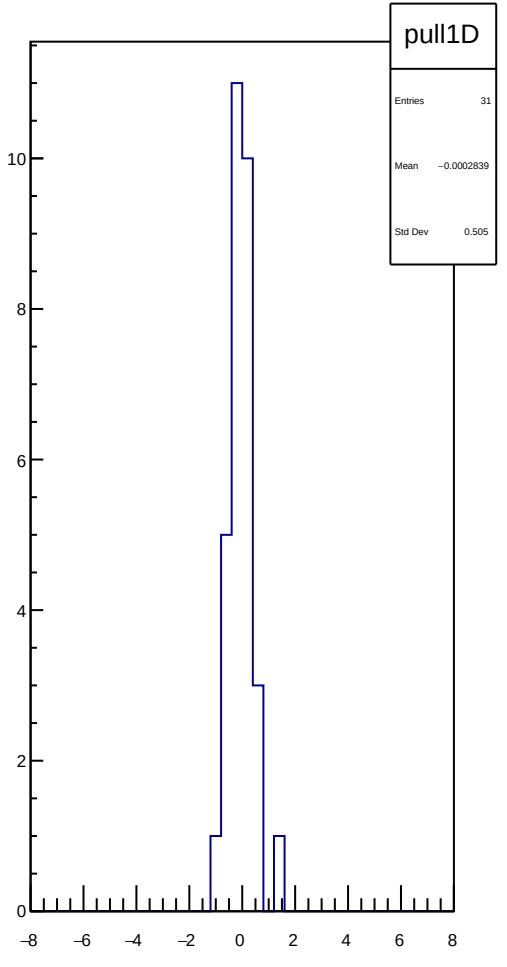

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2.011e+04 / 30
p0 155.4 ± 0.2049
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

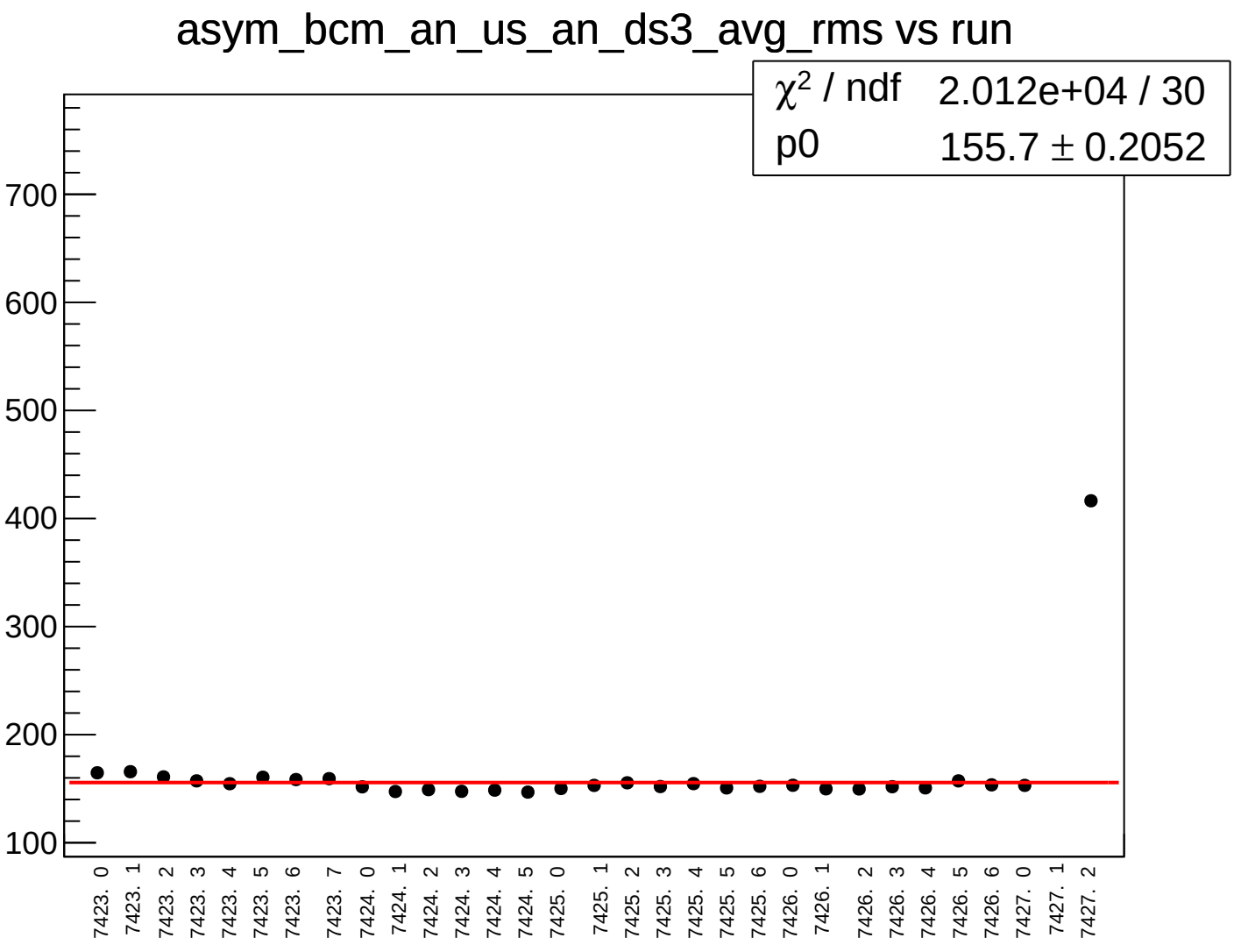

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 33.68 / 30
p0 28.32 ± 20.21
400
300
200
100
0
−100
−200
−300
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

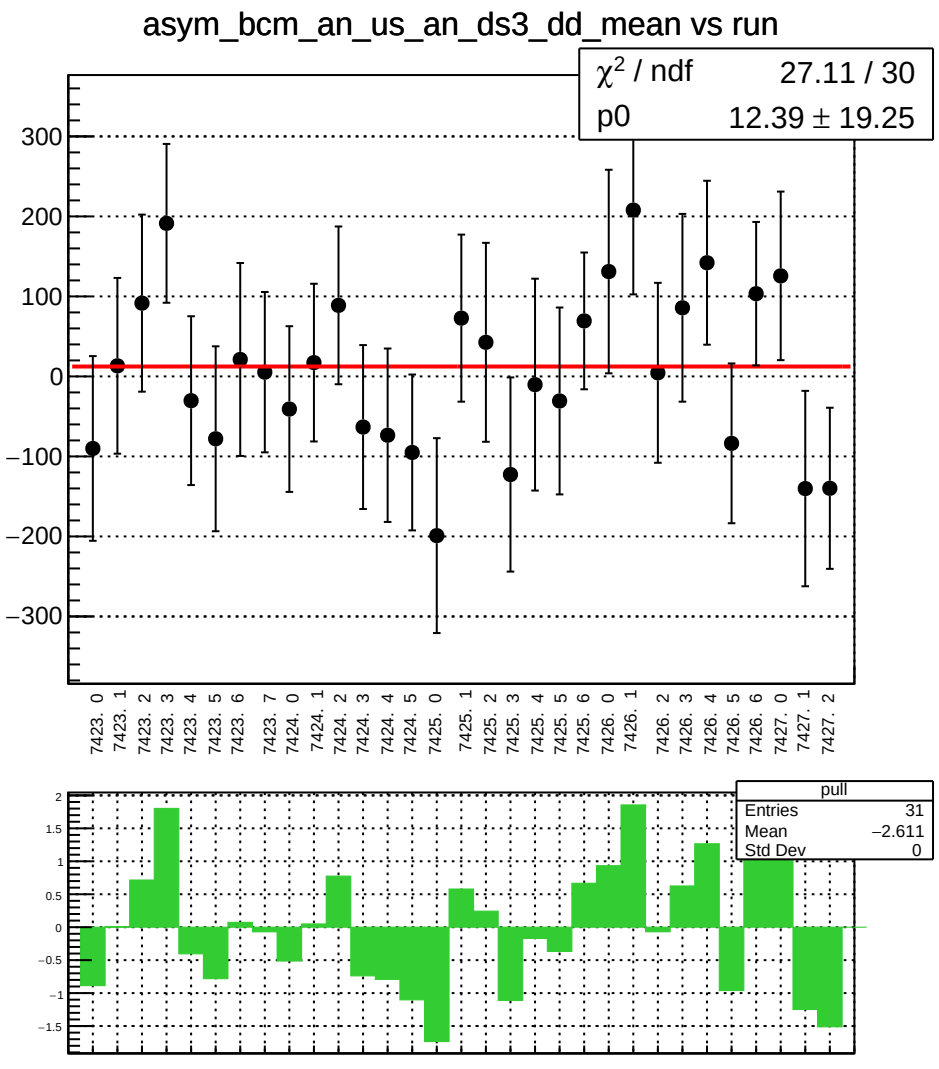

pull1D
Entries 31
Mean −0.02321
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

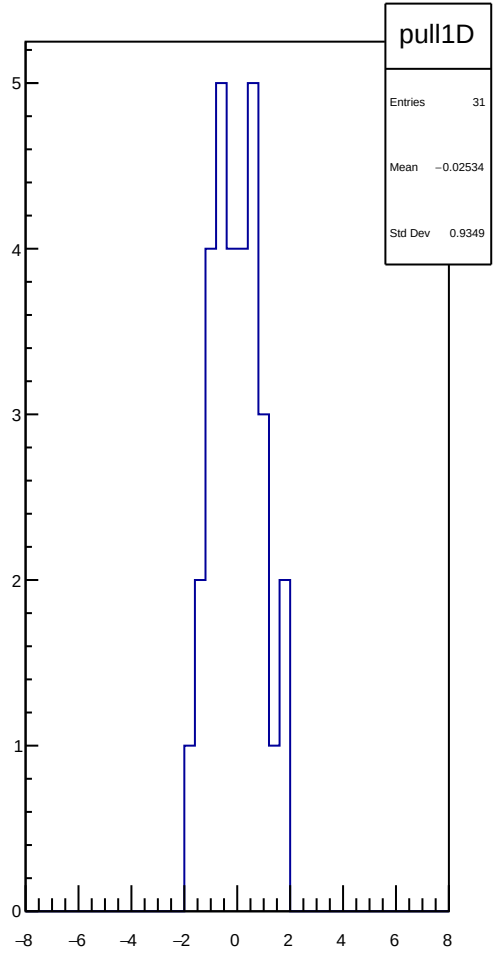

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 3038 / 30
p0 11 ± 0.01429
13
12.5
12
11.5
11
10.5
10
9.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

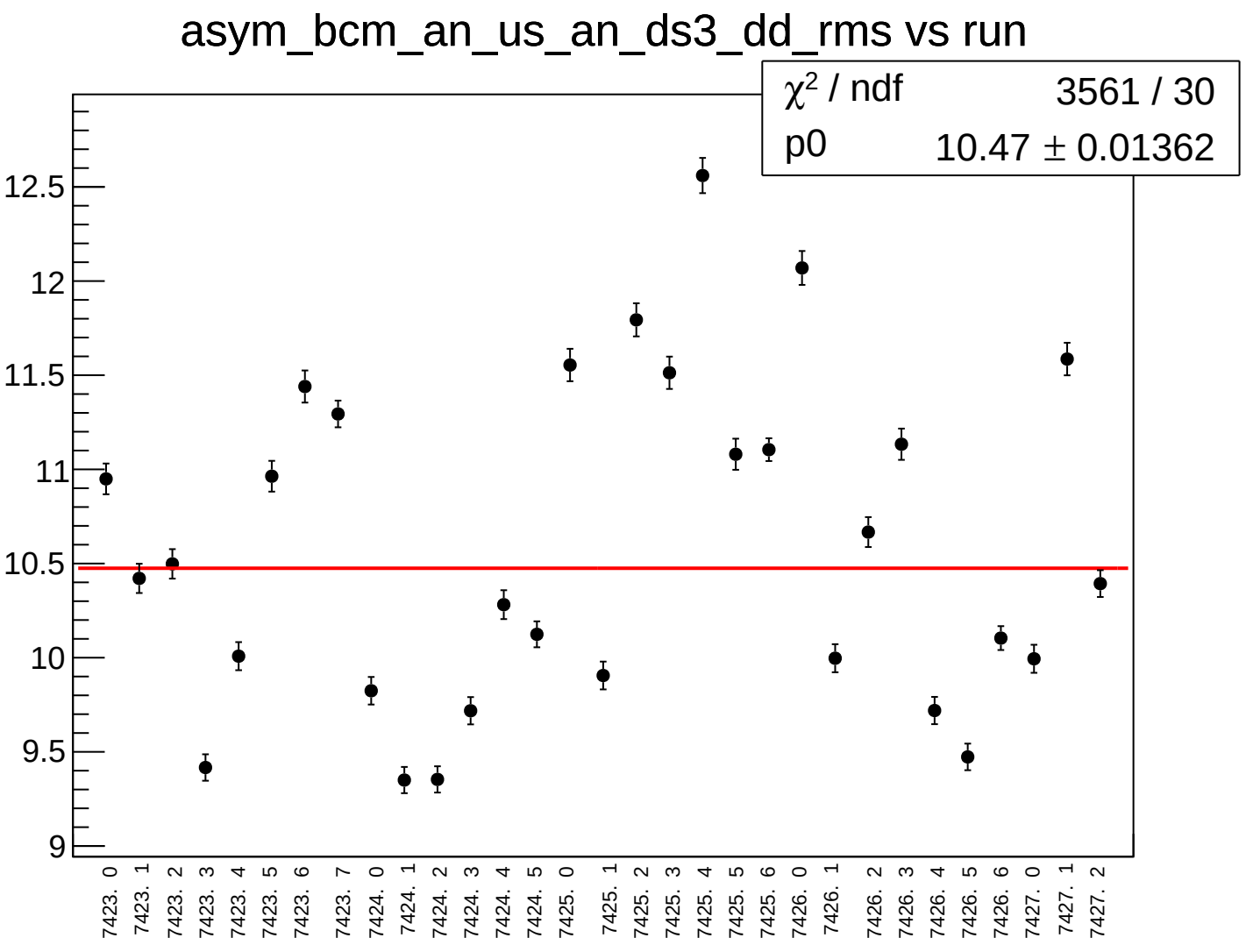

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 7.905 / 30
p0 68.69 ± 290.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 499.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

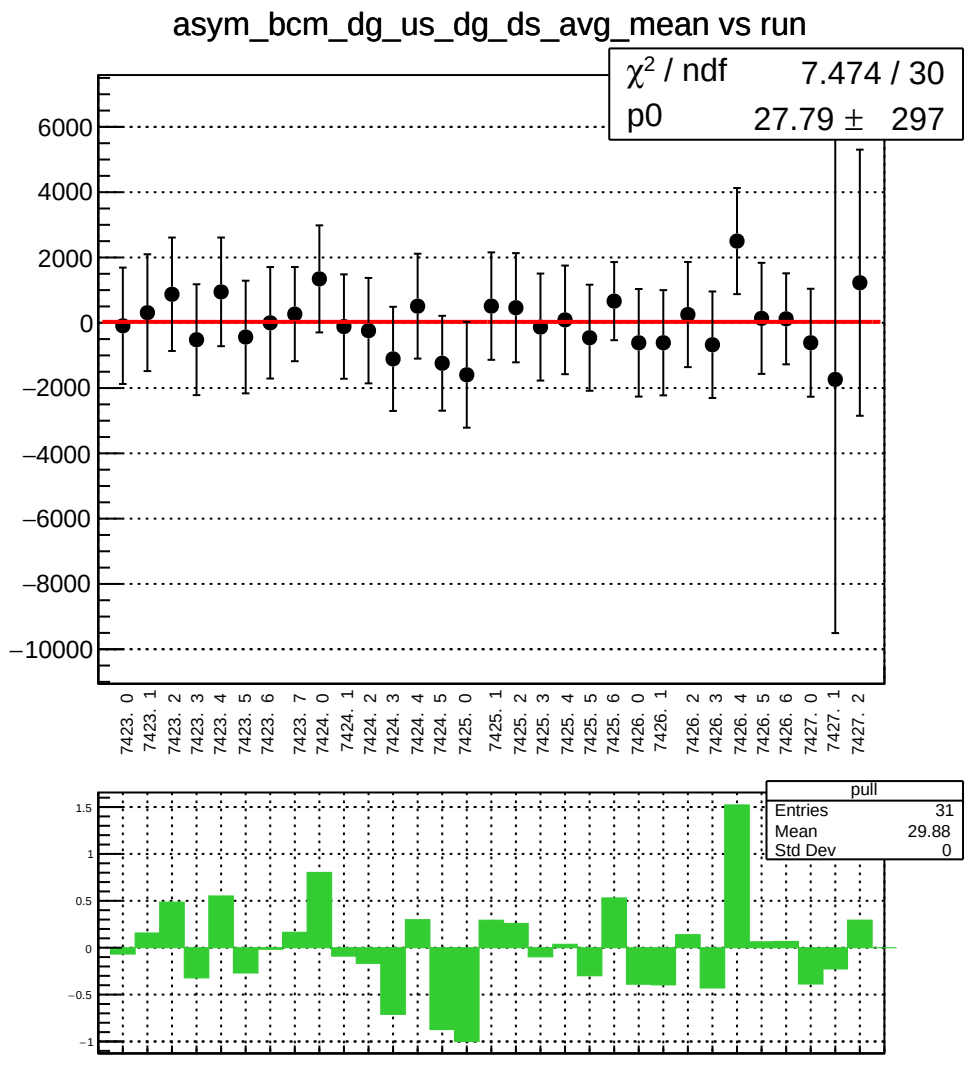

pull1D
Entries 31
Mean −0.0002839
Std Dev 0.505
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

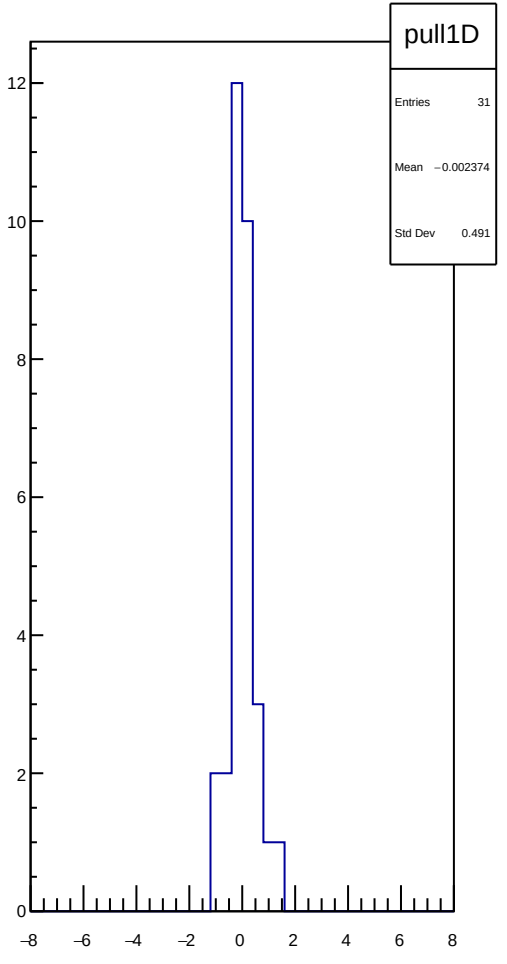

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 2.012e+04 / 30
p0 155.7 ± 0.2052
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

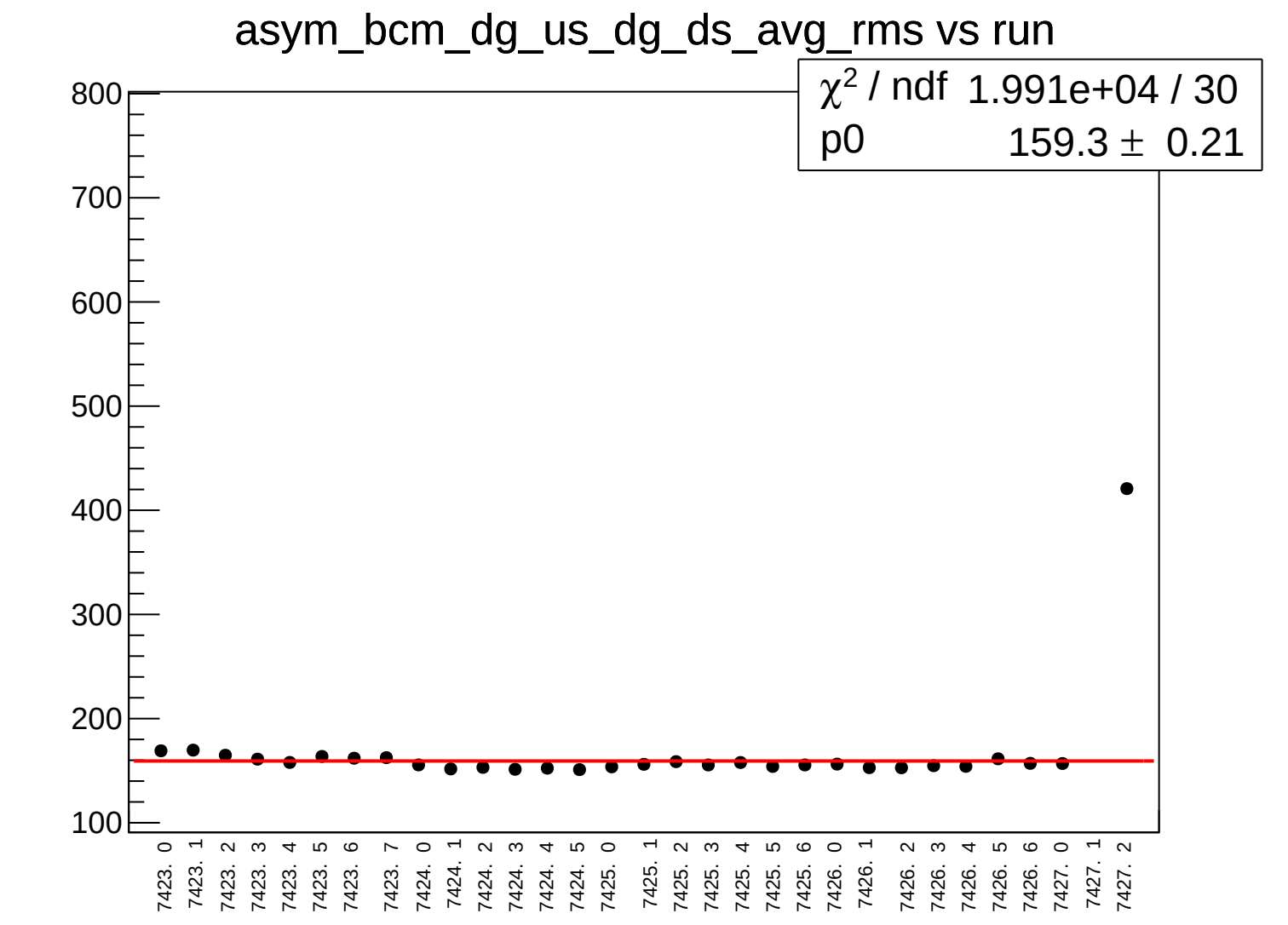

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 27.11 / 30
p0 12.39 ± 19.25
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −2.611
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

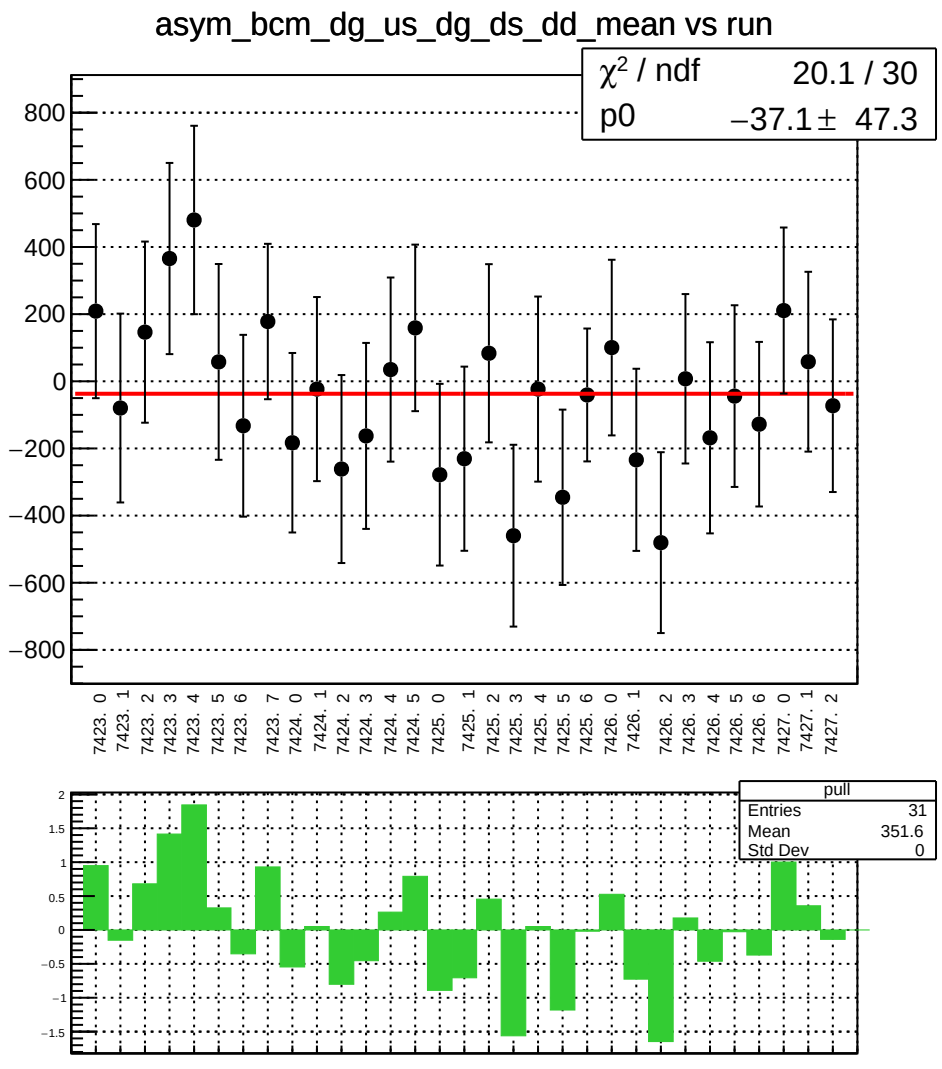

pull1D
Entries 31
Mean −0.02534
Std Dev 0.9349
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

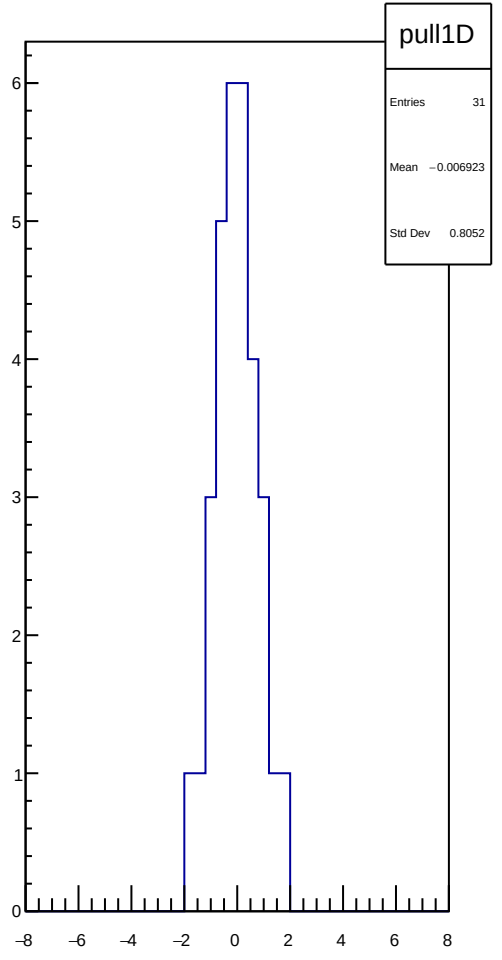

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 3561 / 30
p0 10.47 ± 0.01362
12.5
12
11.5
11
10.5
10
9.5
9
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

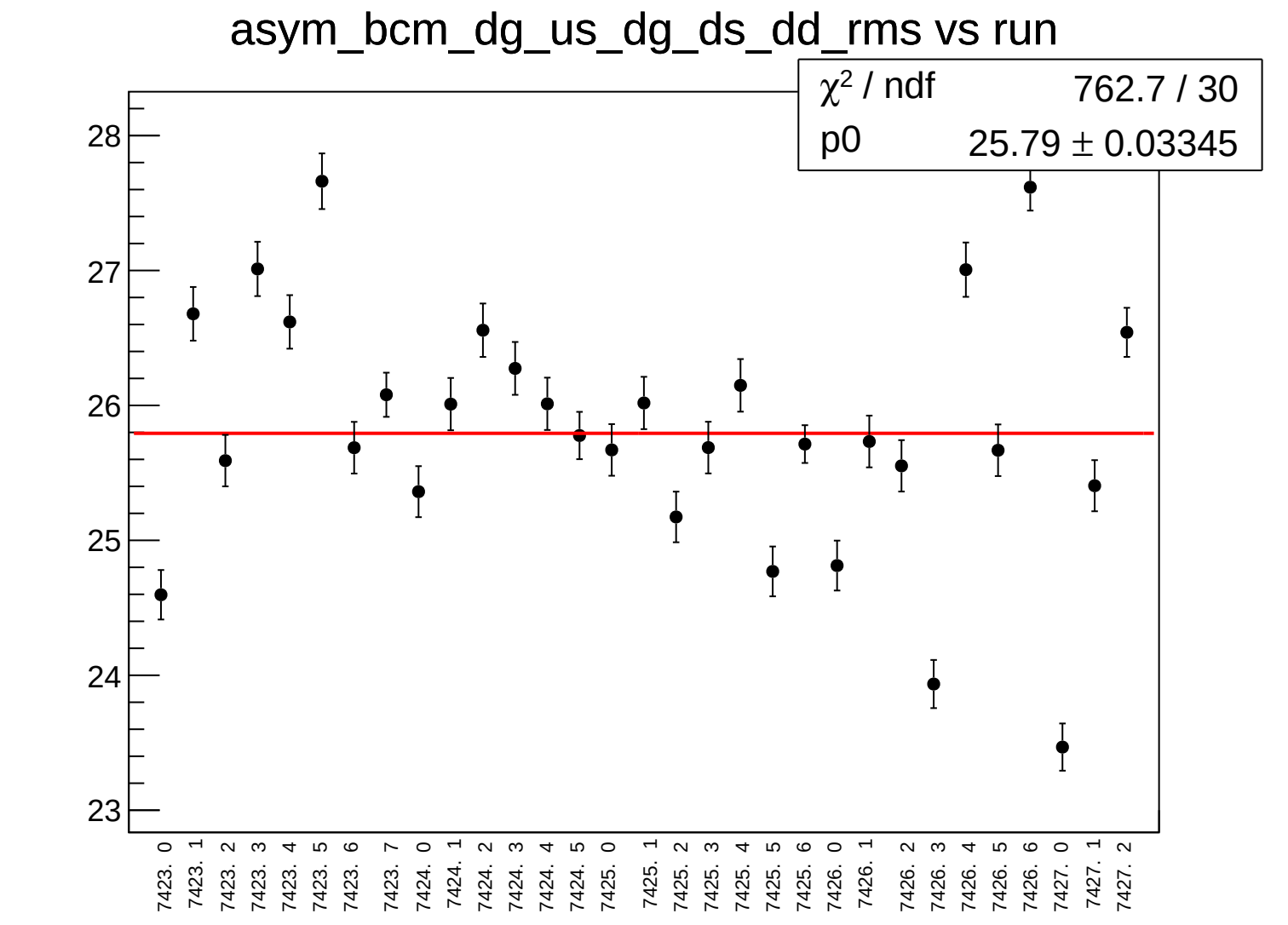

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 7.474 / 30
p0 27.79 ± 297
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 29.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1

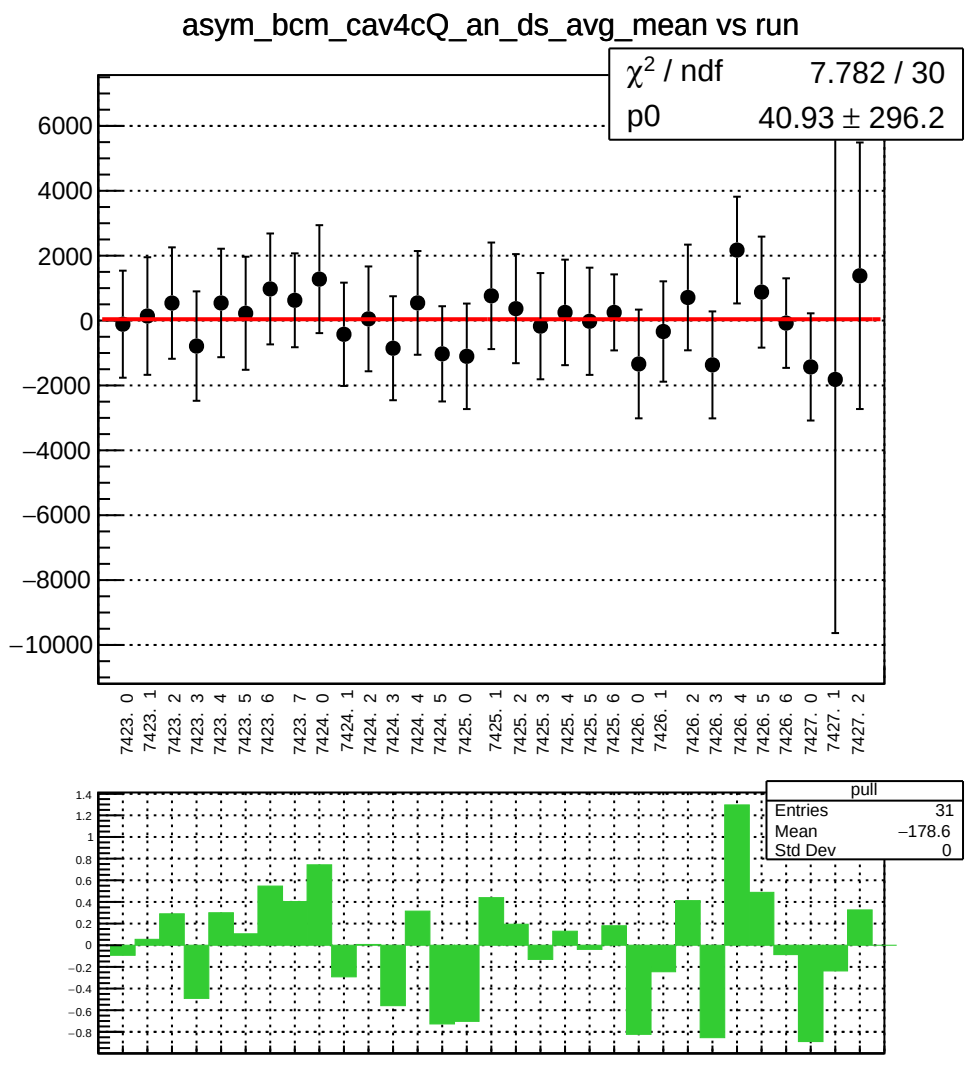

pull1D
Entries 31
Mean −0.002374
Std Dev 0.491
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

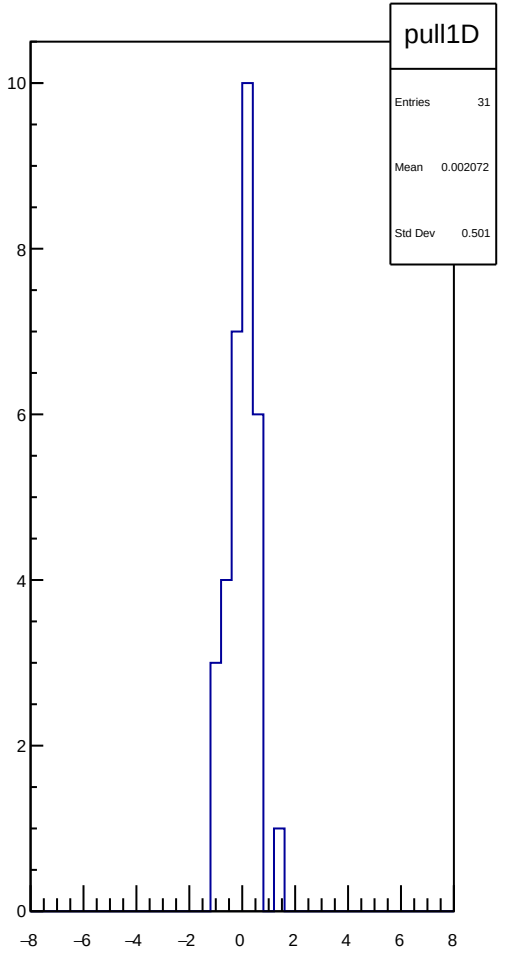

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.991e+04 / 30
p0 159.3 ± 0.21
800
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

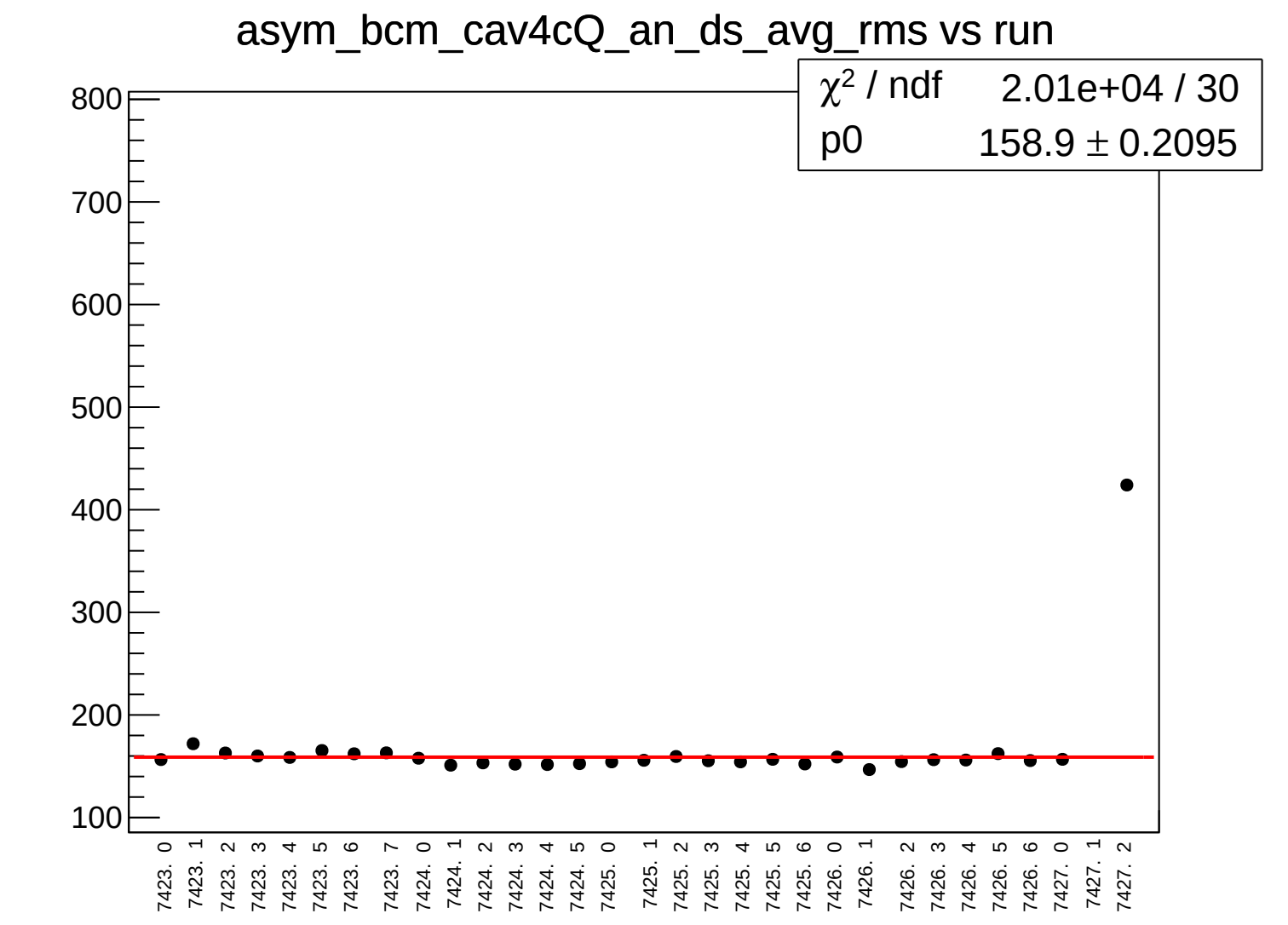

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 20.1 / 30
p0 −37.1 ± 47.3
800
600
400
200
0
−200
−400
−600
−800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 351.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

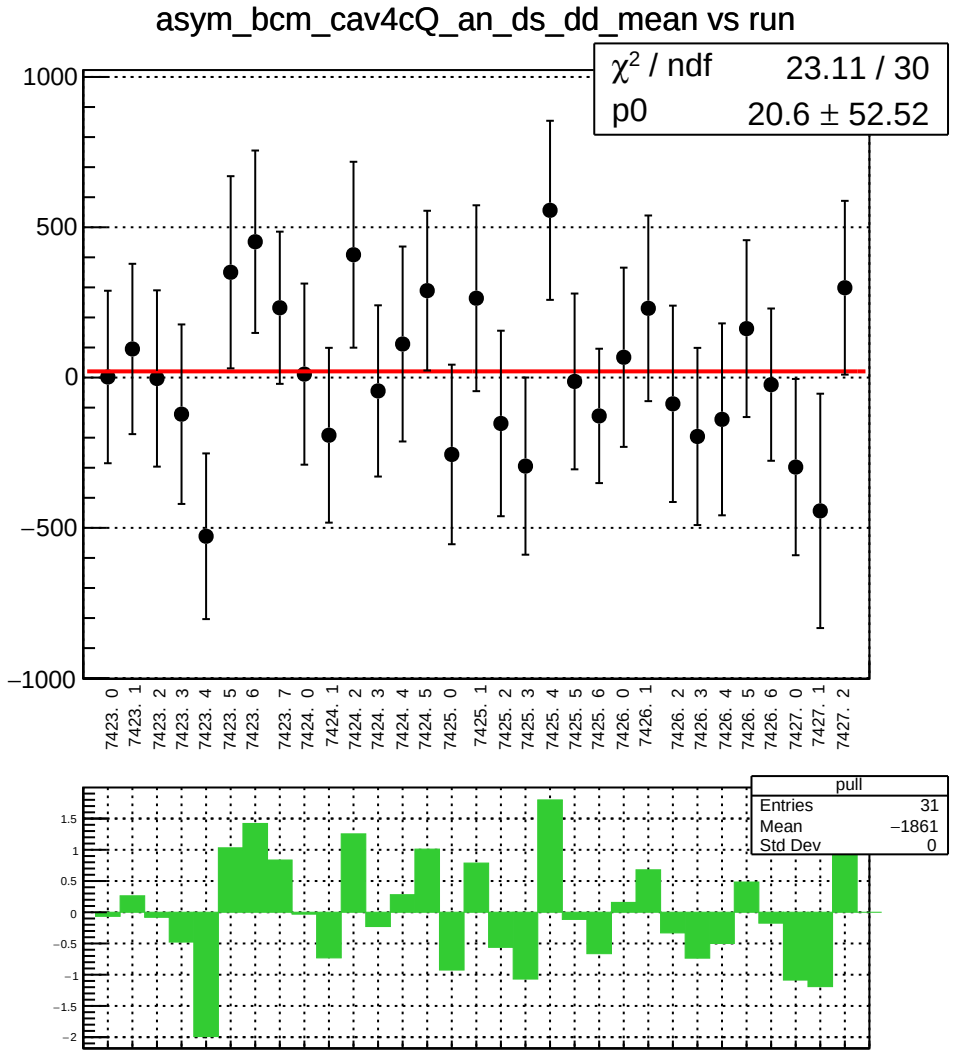

pull1D
Entries 31
Mean −0.006923
Std Dev 0.8052
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

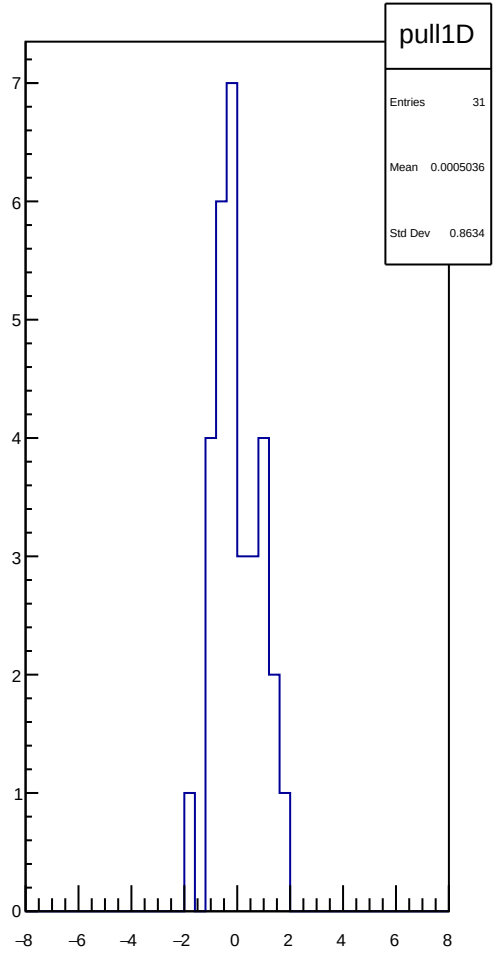

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 762.7 / 30
p0 25.79 ± 0.03345
28
27
26
25
24
23
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

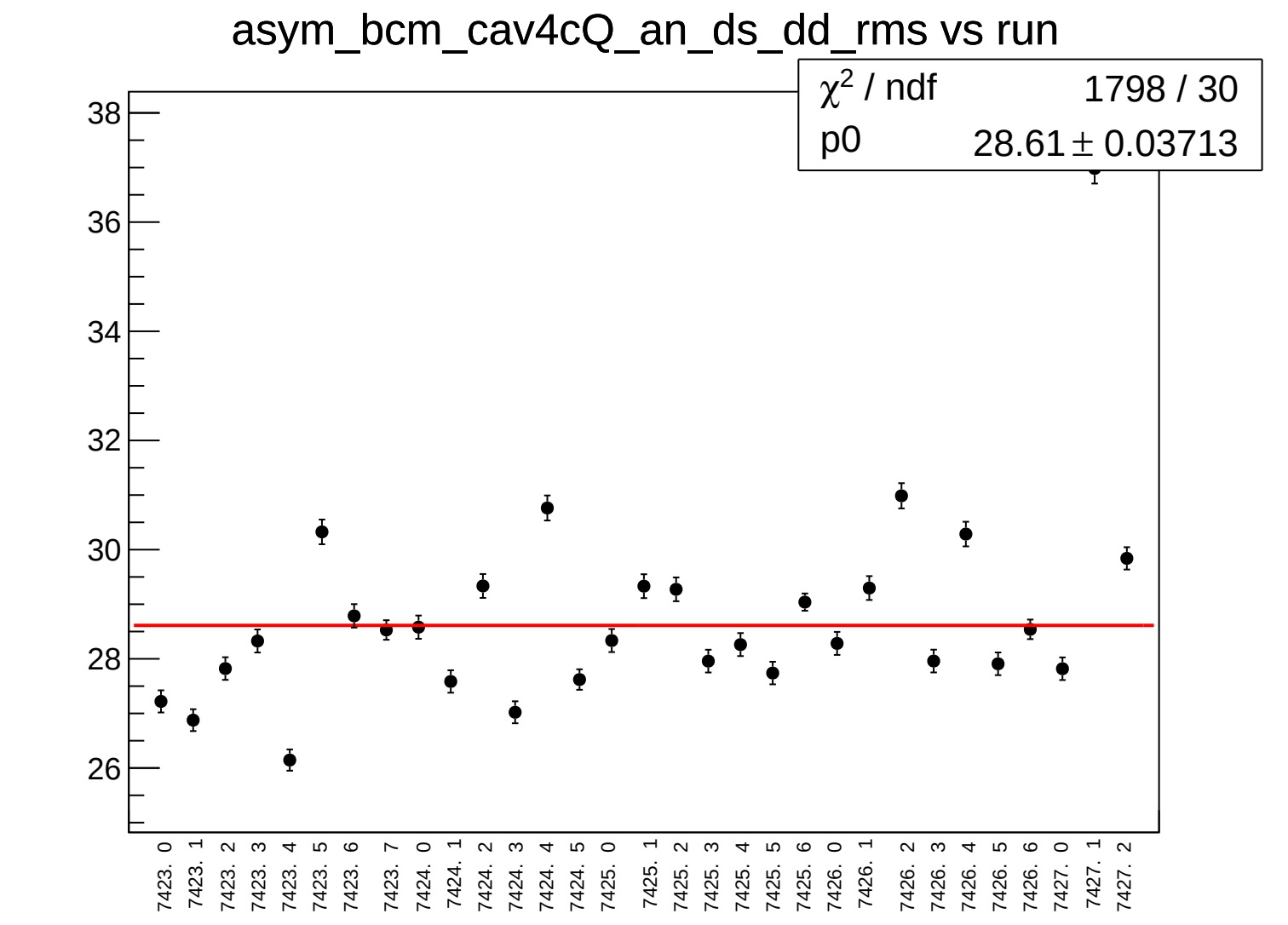

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 7.782 / 30
p0 40.93 ± 296.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −178.6
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

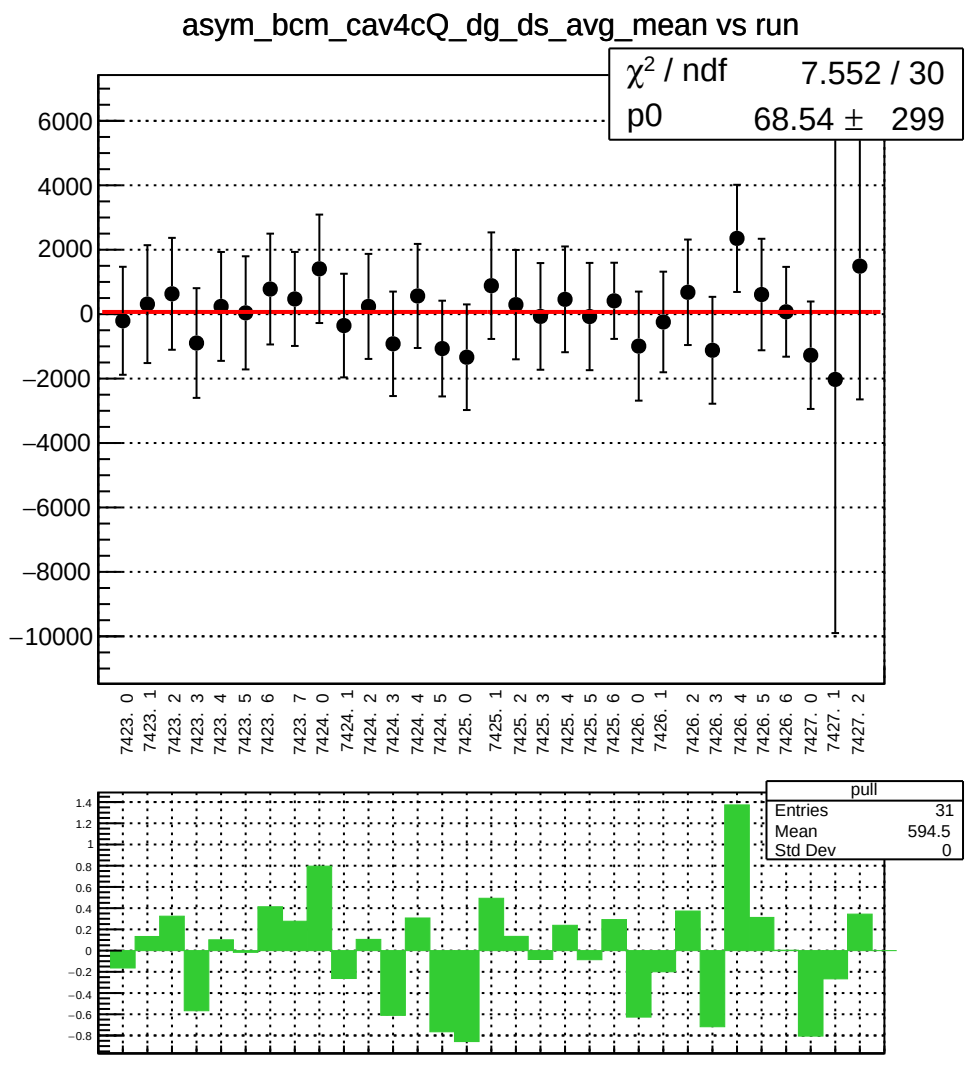

pull1D
Entries 31
Mean 0.002072
Std Dev 0.501
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

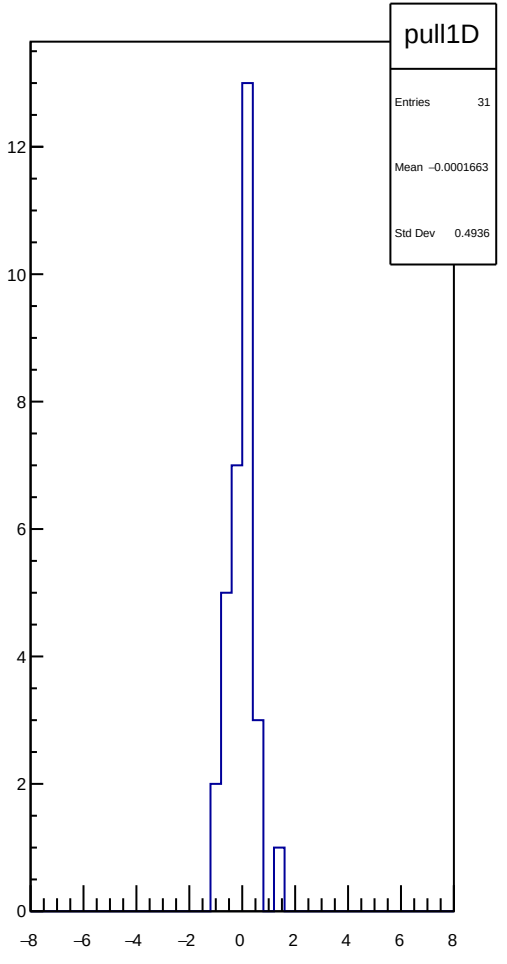

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2.01e+04 / 30
p0 158.9 ± 0.2095
800
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

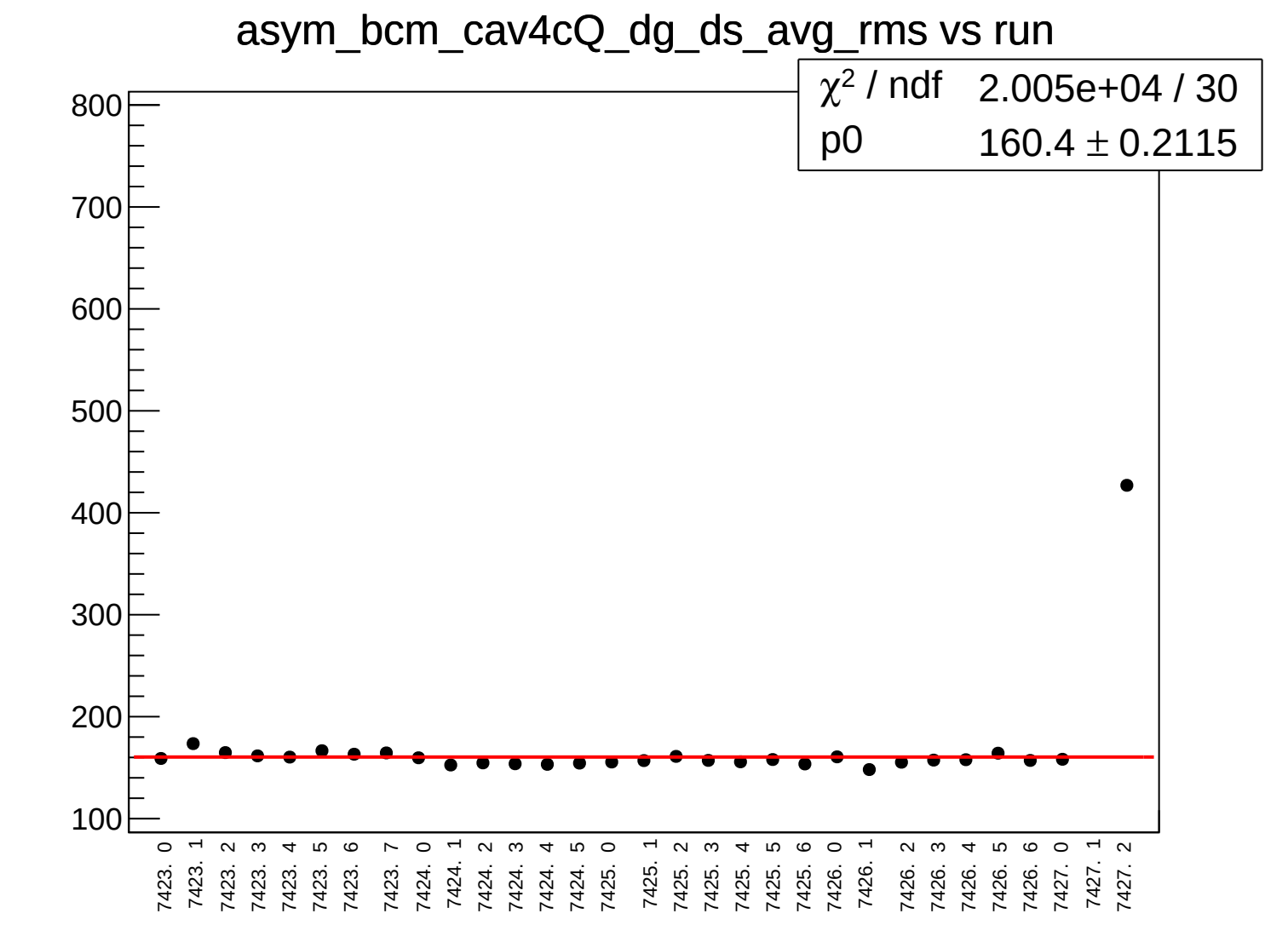

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 23.11 / 30
p0 20.6 ± 52.52
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1861
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

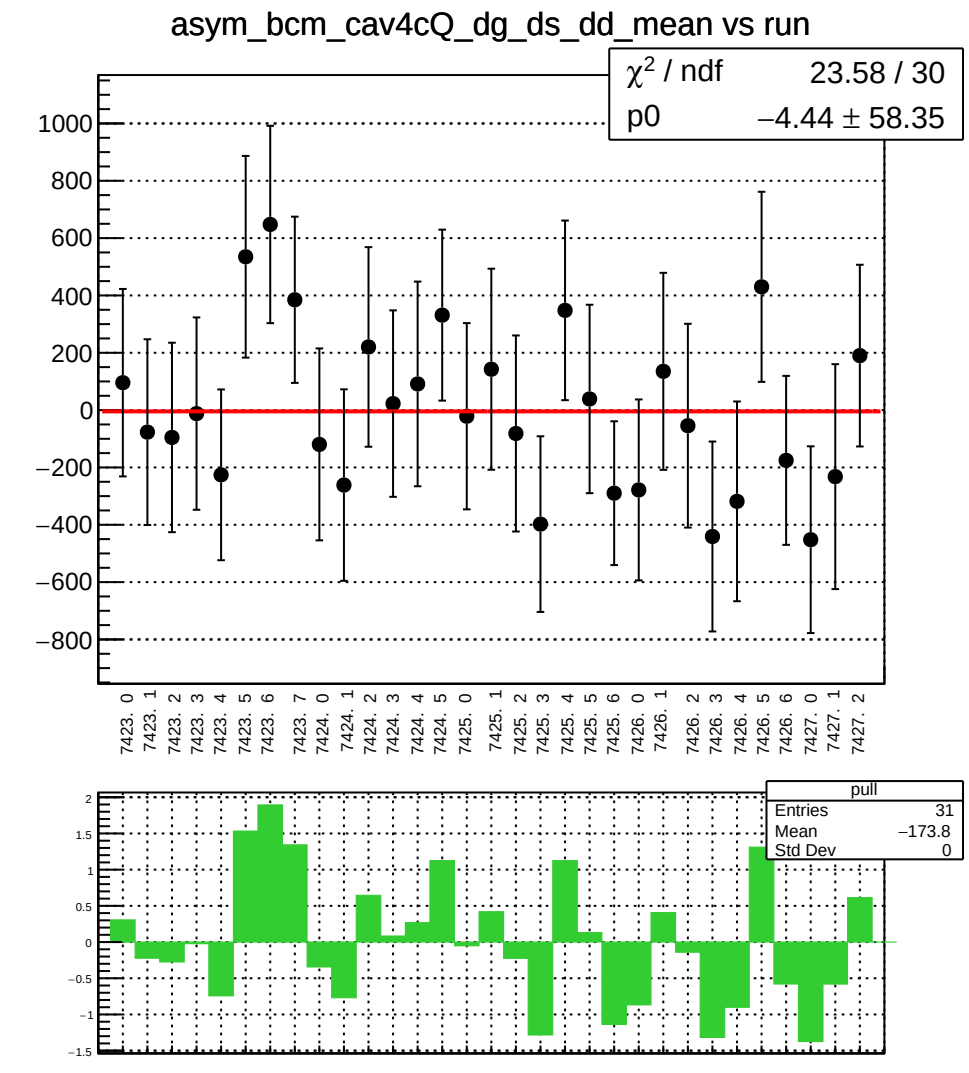

pull1D
Entries 31
Mean 0.0005036
Std Dev 0.8634
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

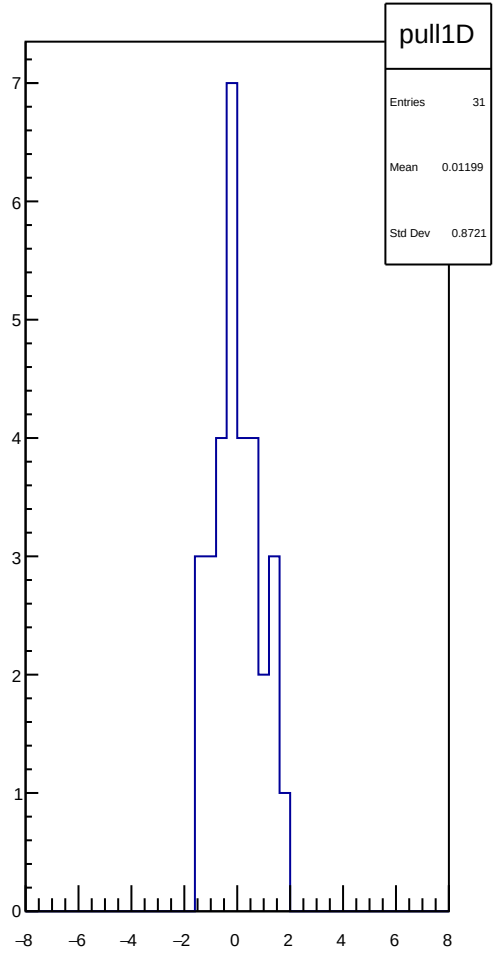

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1798 / 30
p0 28.61 ± 0.03713
38
36
34
32
30
28
26
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

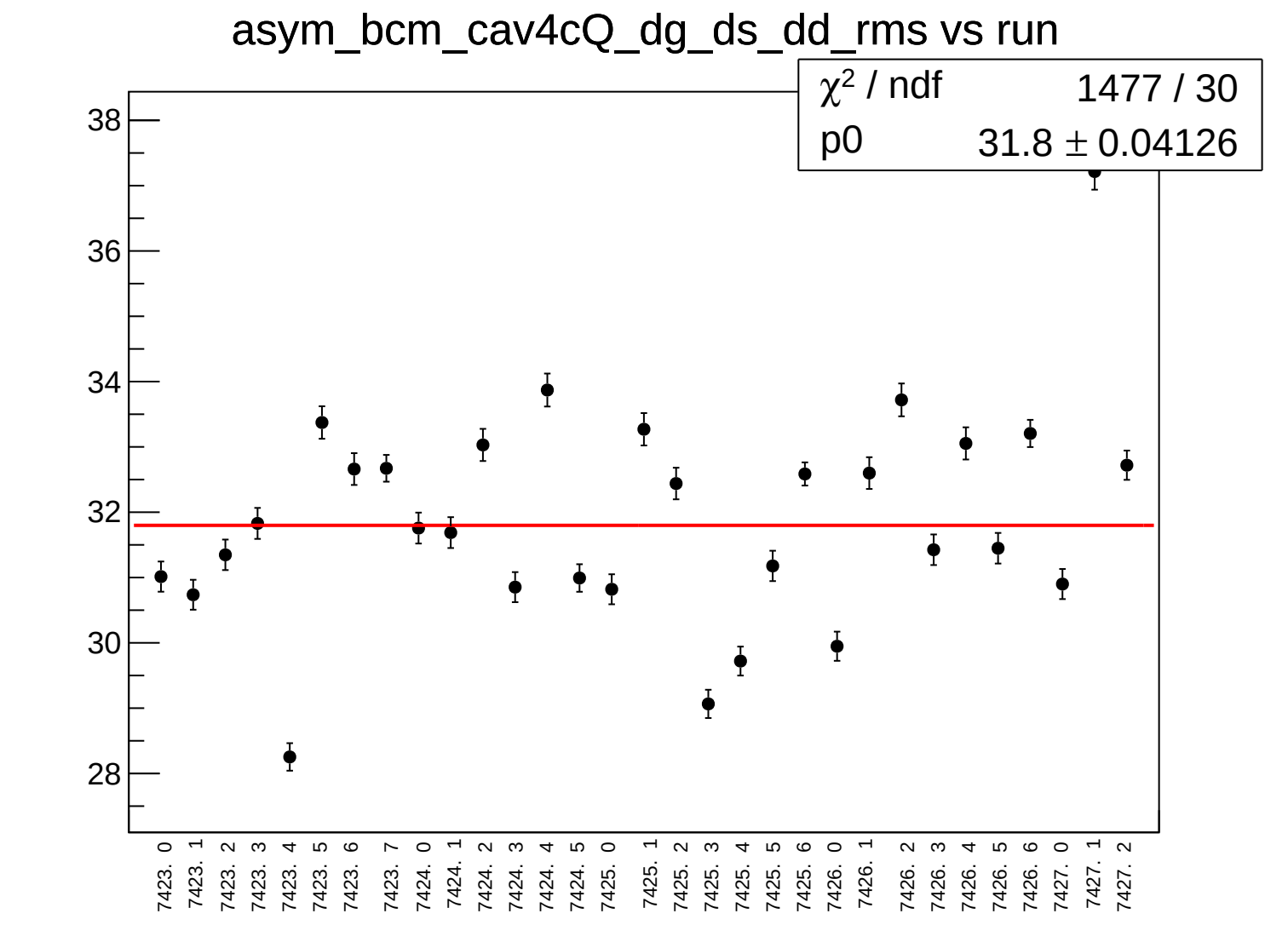

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 7.552 / 30
p0 68.54 ± 299
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 594.5
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

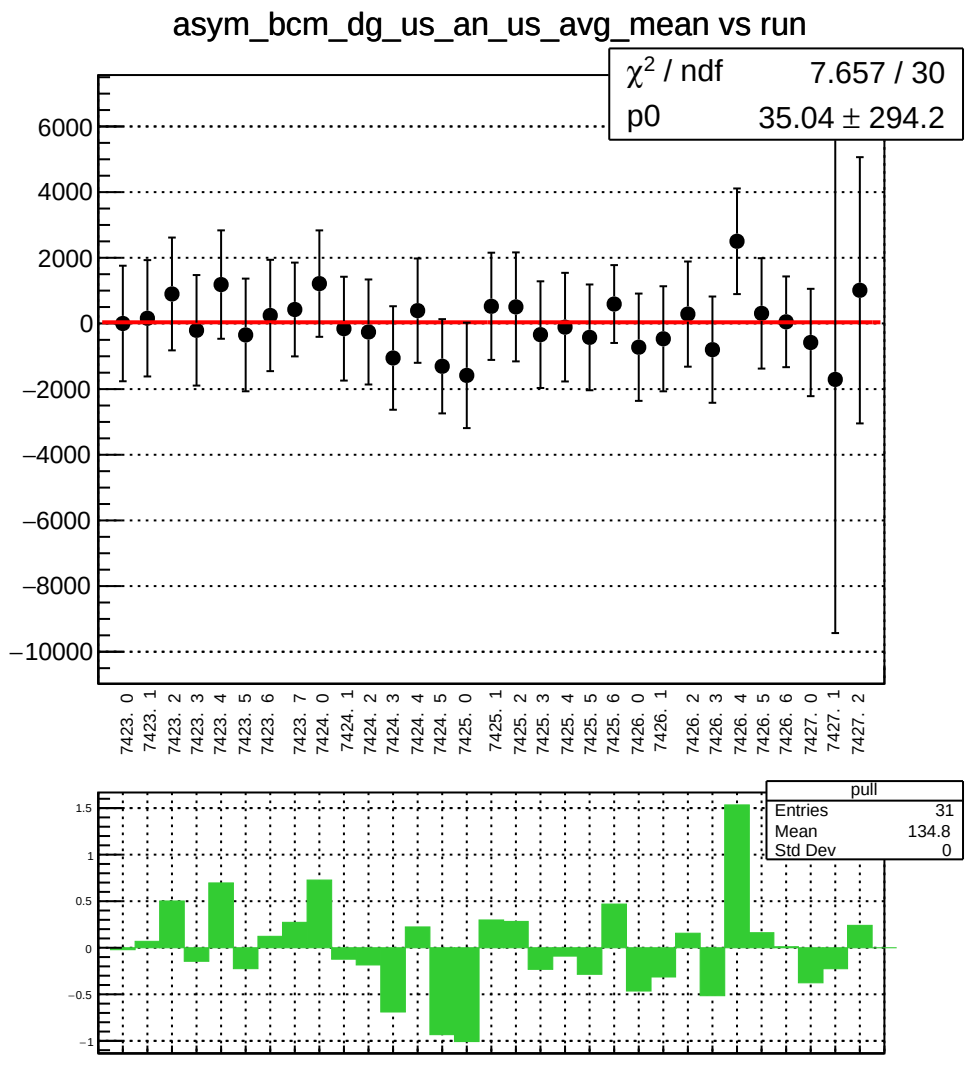

pull1D
Entries 31
Mean −0.0001663
Std Dev 0.4936
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

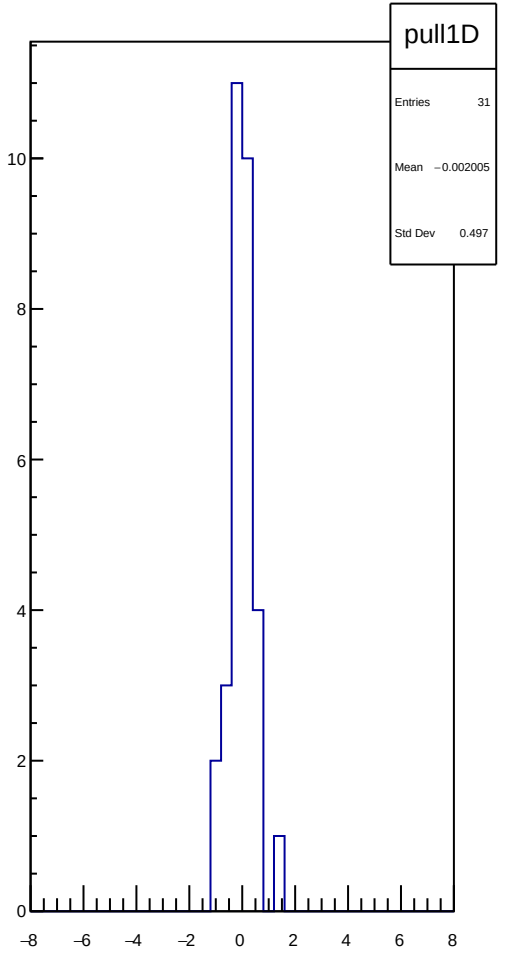

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2.005e+04 / 30
p0 160.4 ± 0.2115
800
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

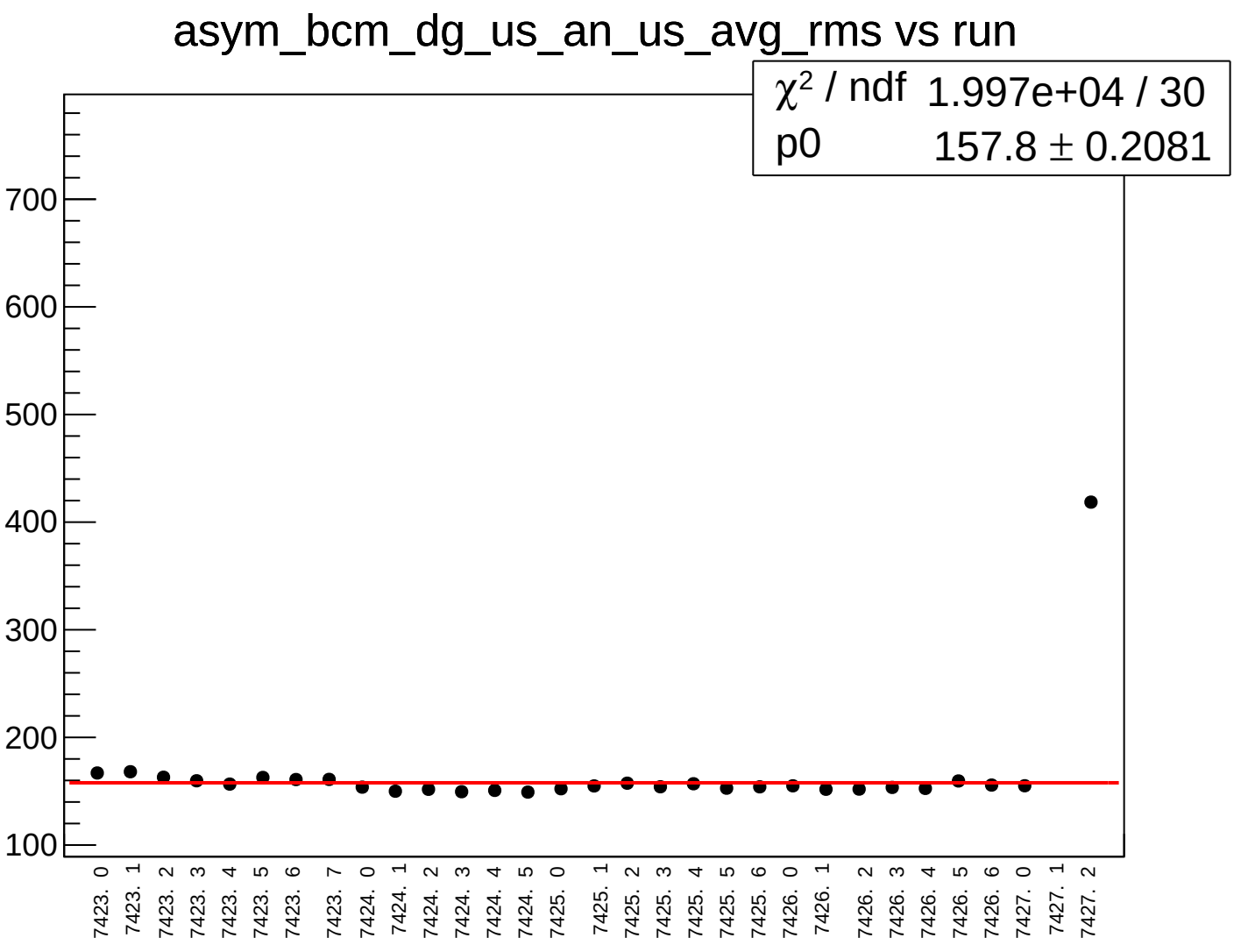

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 23.58 / 30
p0 −4.44 ± 58.35
1000
800
600
400
200
0
−200
−400
−600
−800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −173.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

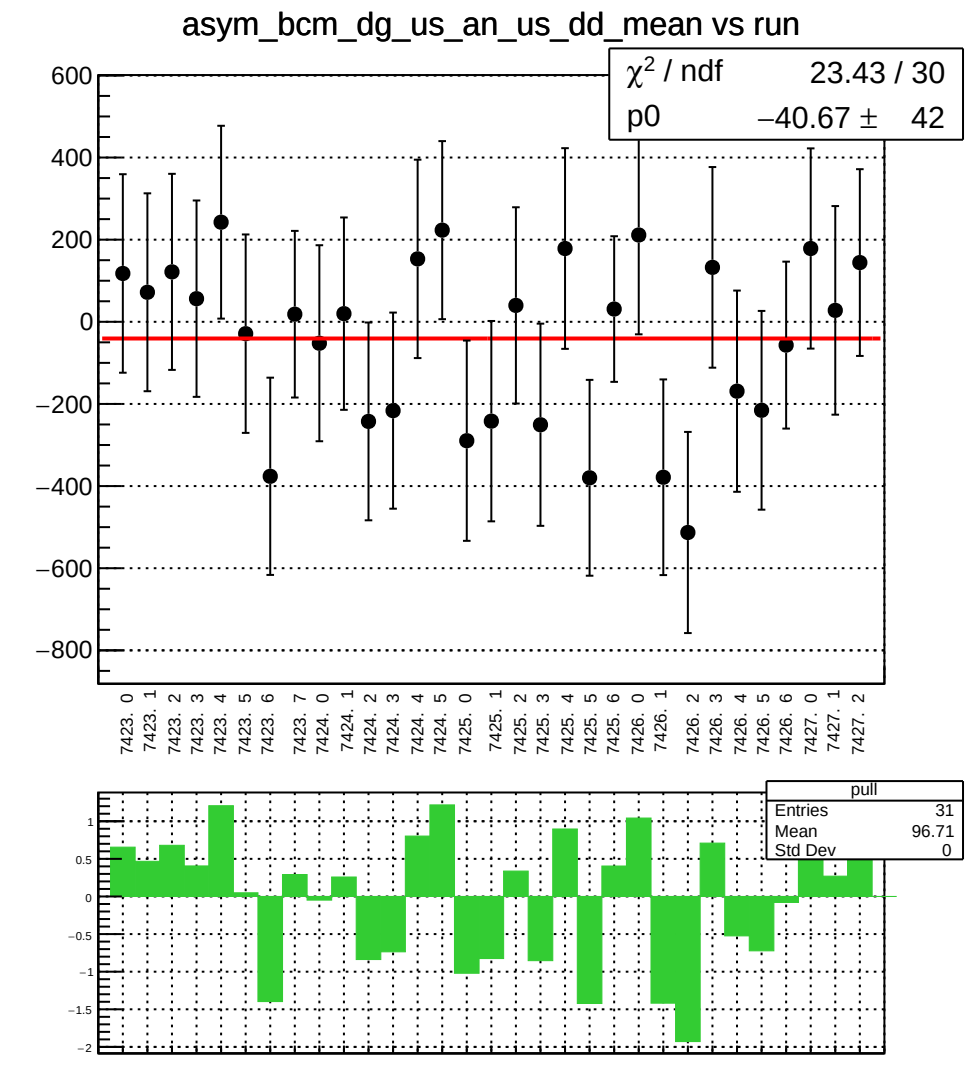

pull1D
Entries 31
Mean 0.01199
Std Dev 0.8721
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

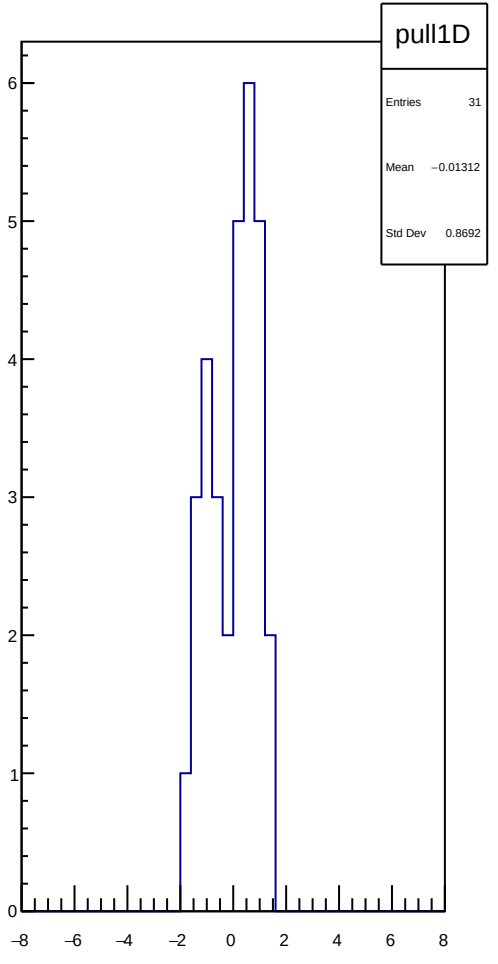

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 1477 / 30
p0 31.8 ± 0.04126
38
36
34
32
30
28
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

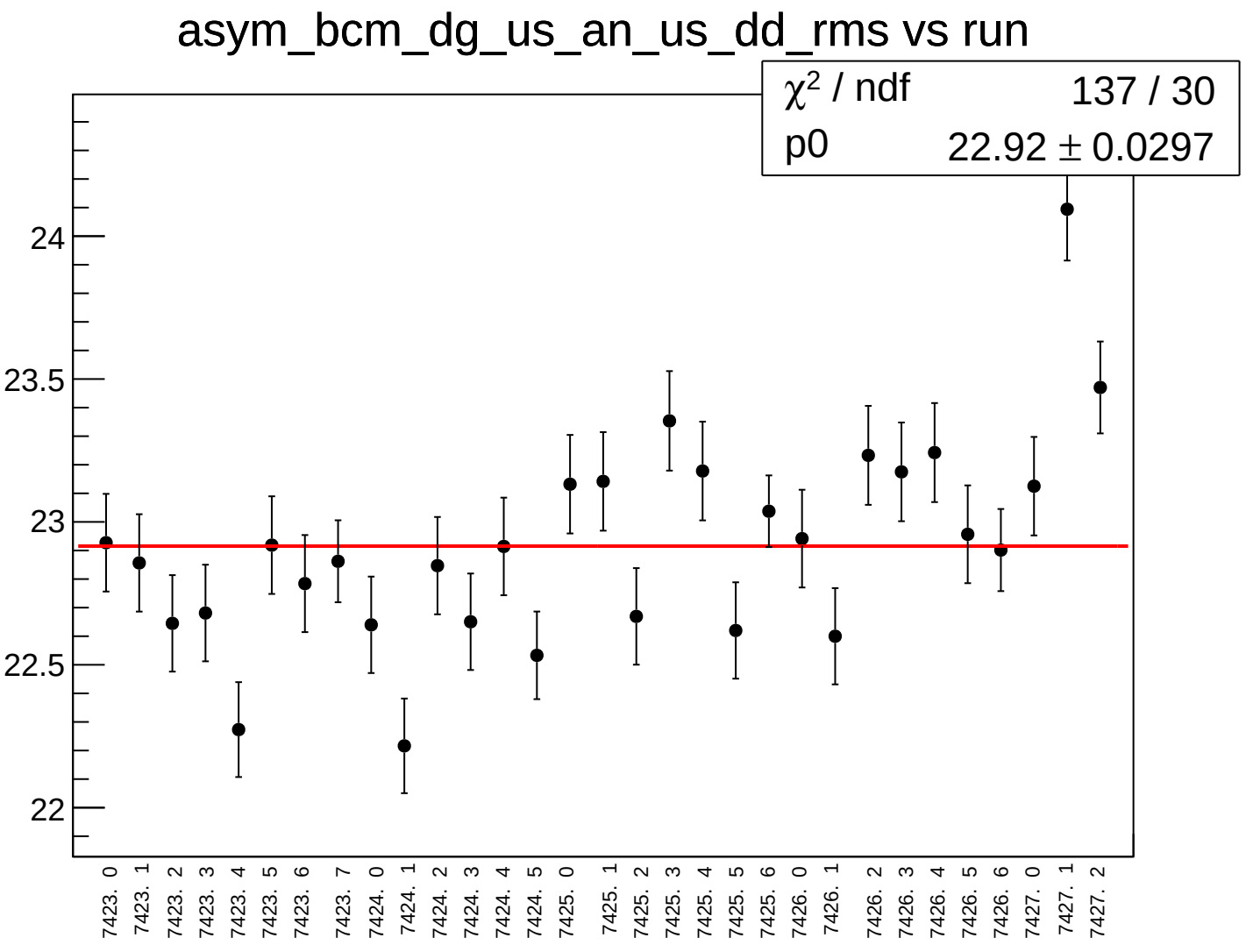

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 7.657 / 30
p0 35.04 ± 294.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 134.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

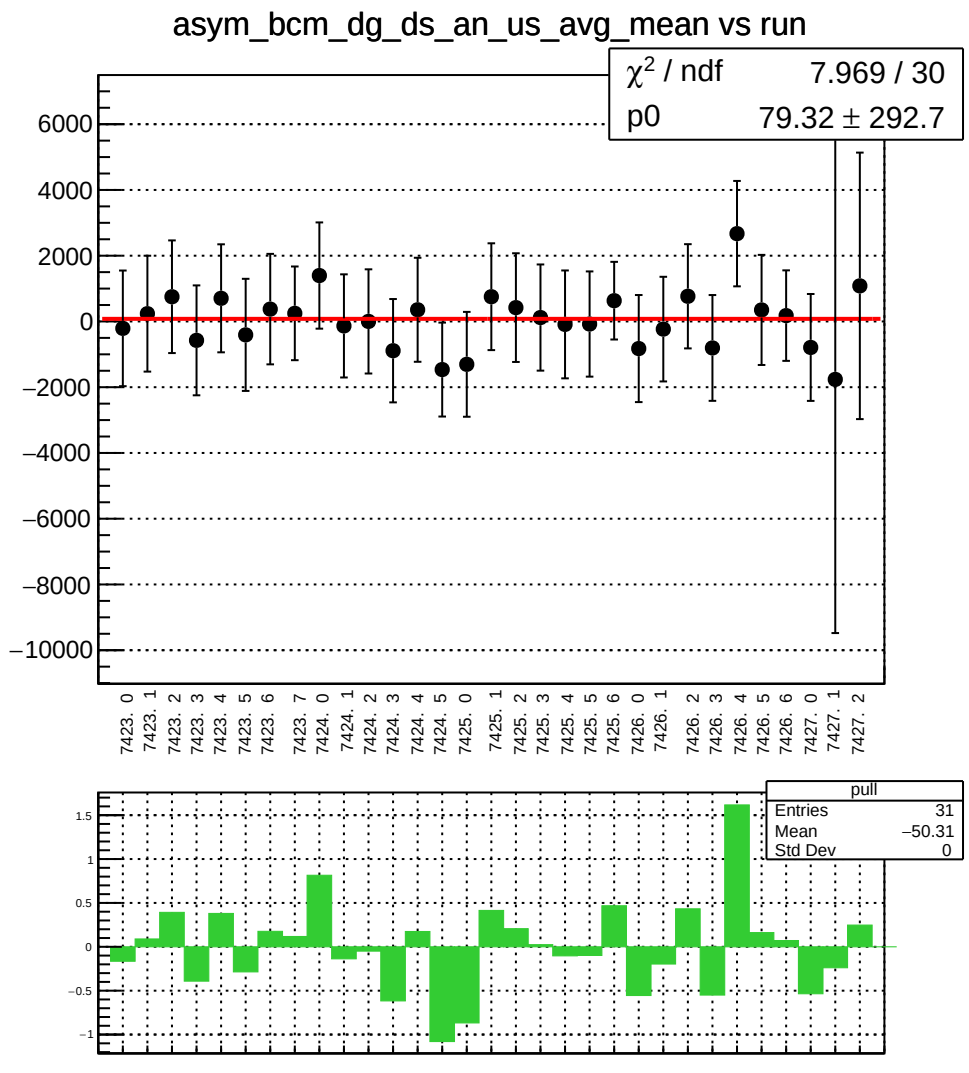

pull1D
Entries 31
Mean −0.002005
Std Dev 0.497
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

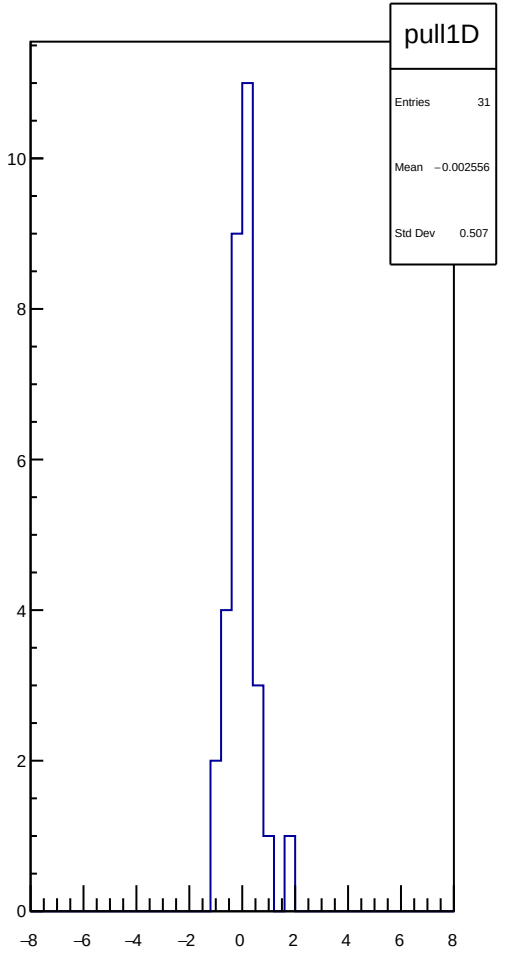

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.997e+04 / 30
p0 157.8 ± 0.2081
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

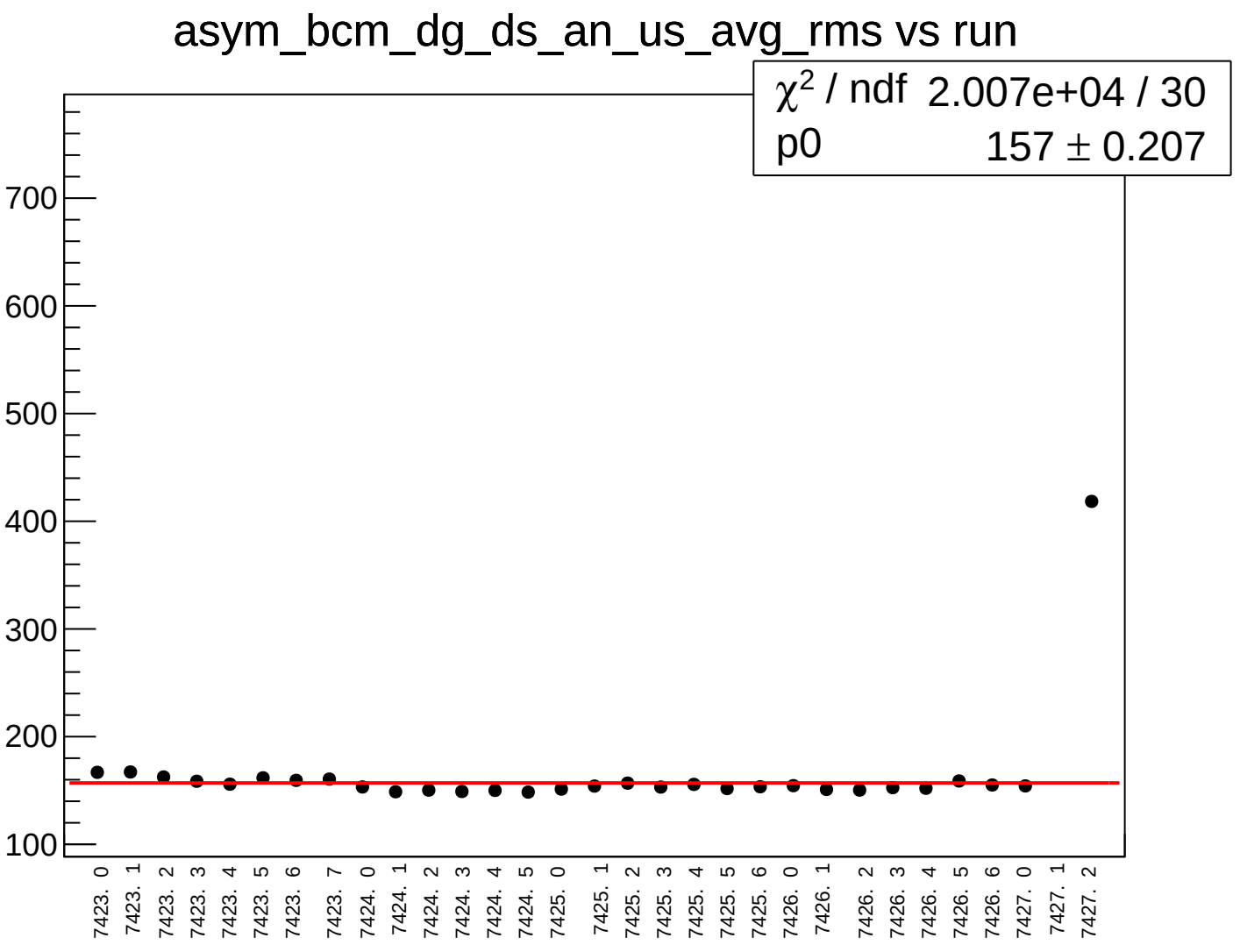

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 23.43 / 30
p0 −40.67 ± 42
600
400
200
0
−200
−400
−600
−800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 96.71
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

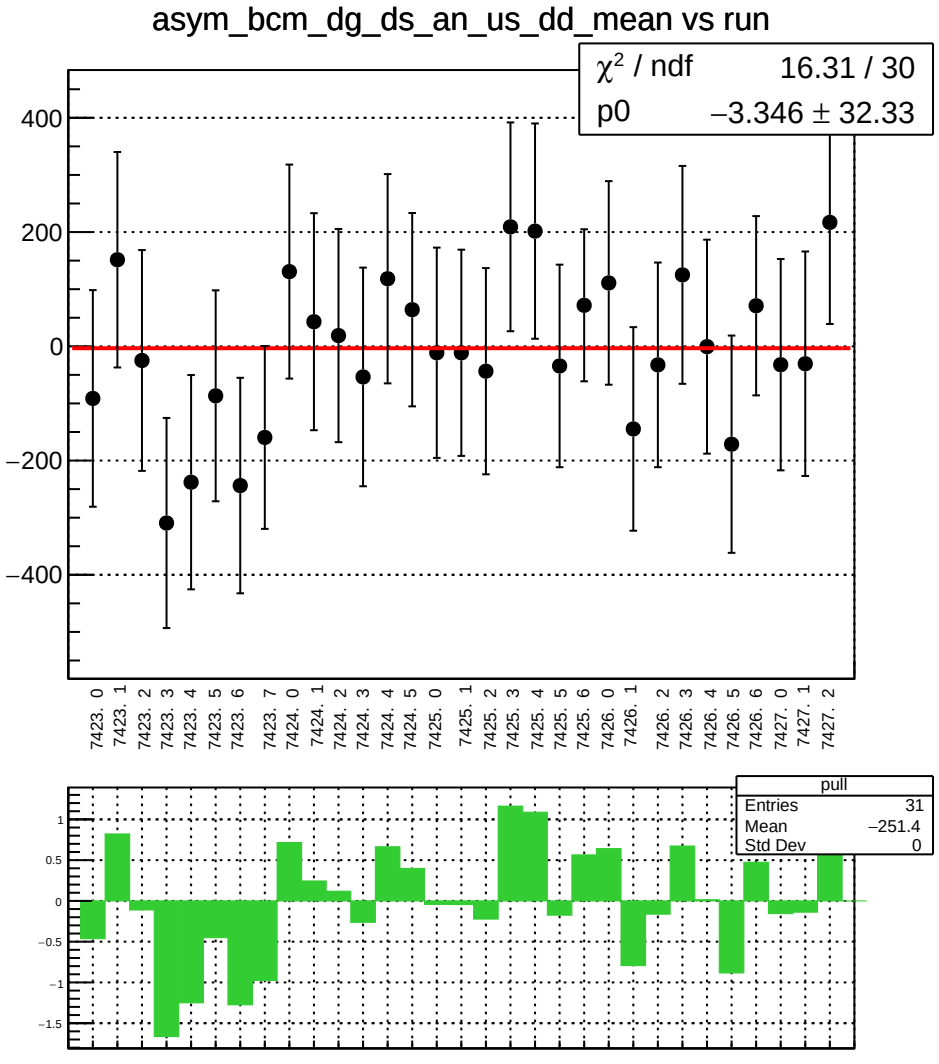

pull1D
Entries 31
Mean −0.01312
Std Dev 0.8692
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

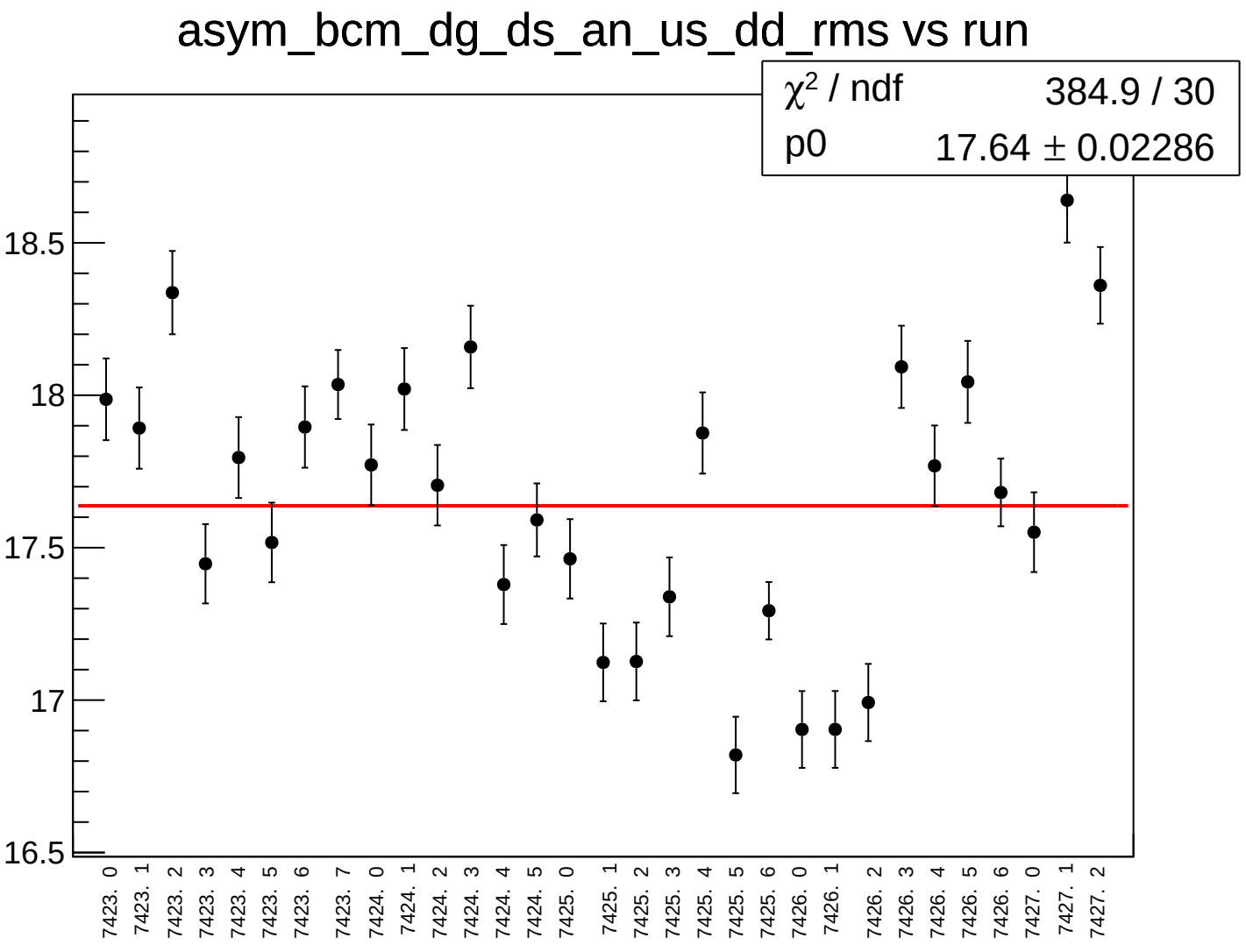

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 137 / 30
p0 22.92 ± 0.0297
24
23.5
23
22.5
22
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

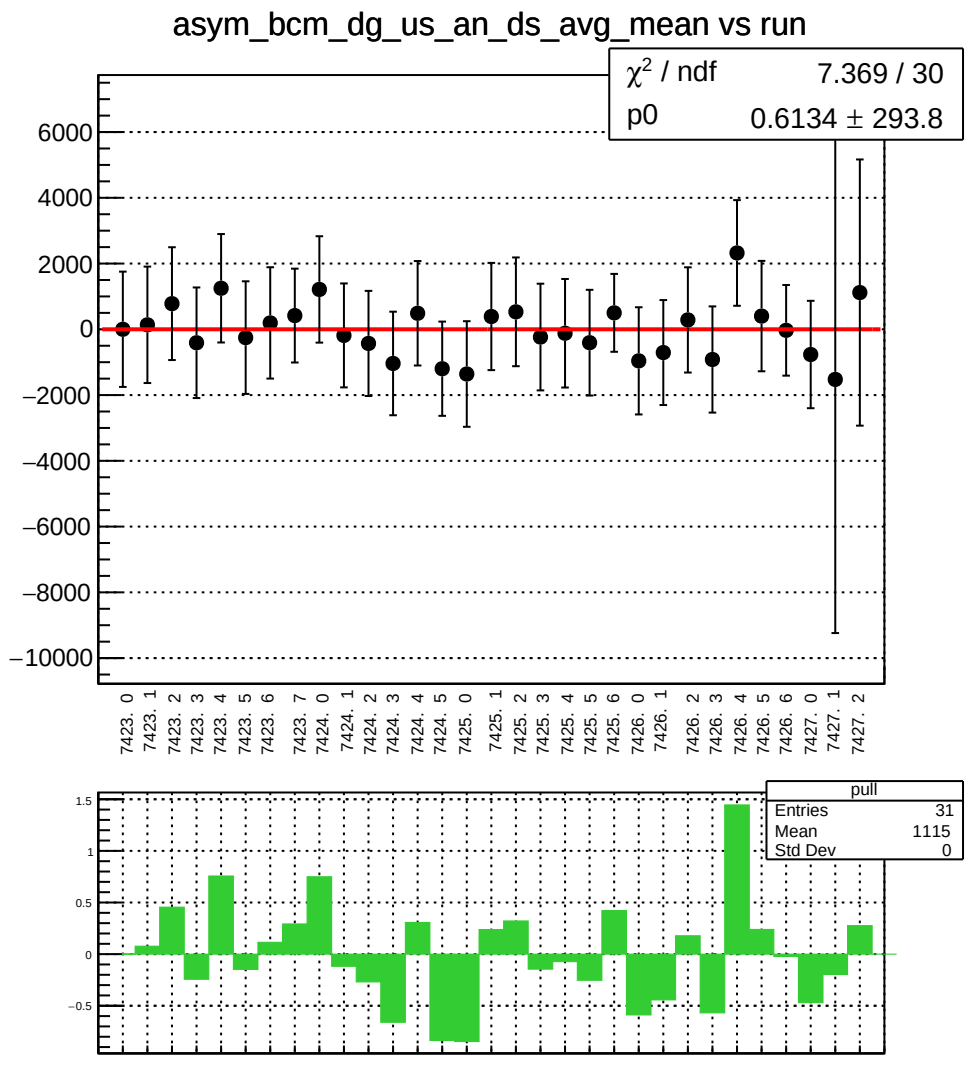

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 7.969 / 30
p0 79.32 ± 292.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −50.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1

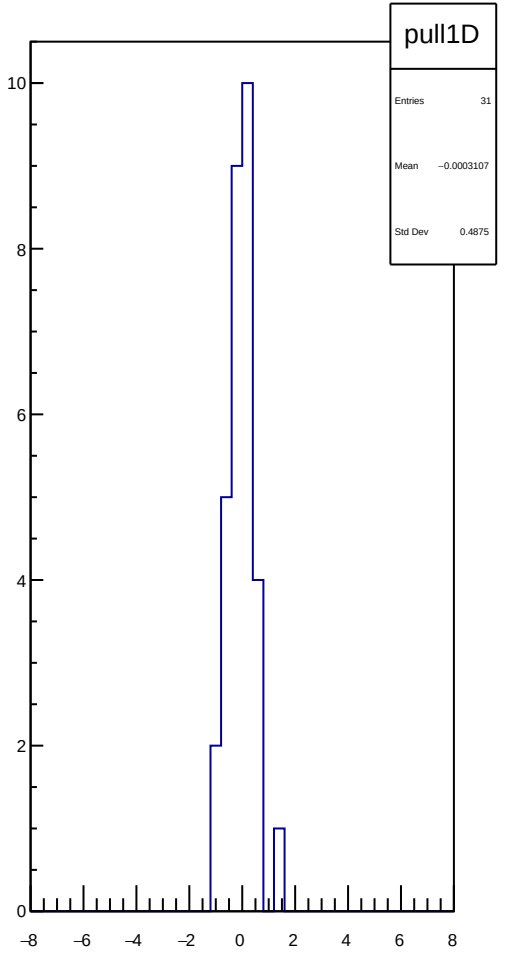

pull1D
Entries 31
Mean −0.002556
Std Dev 0.507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

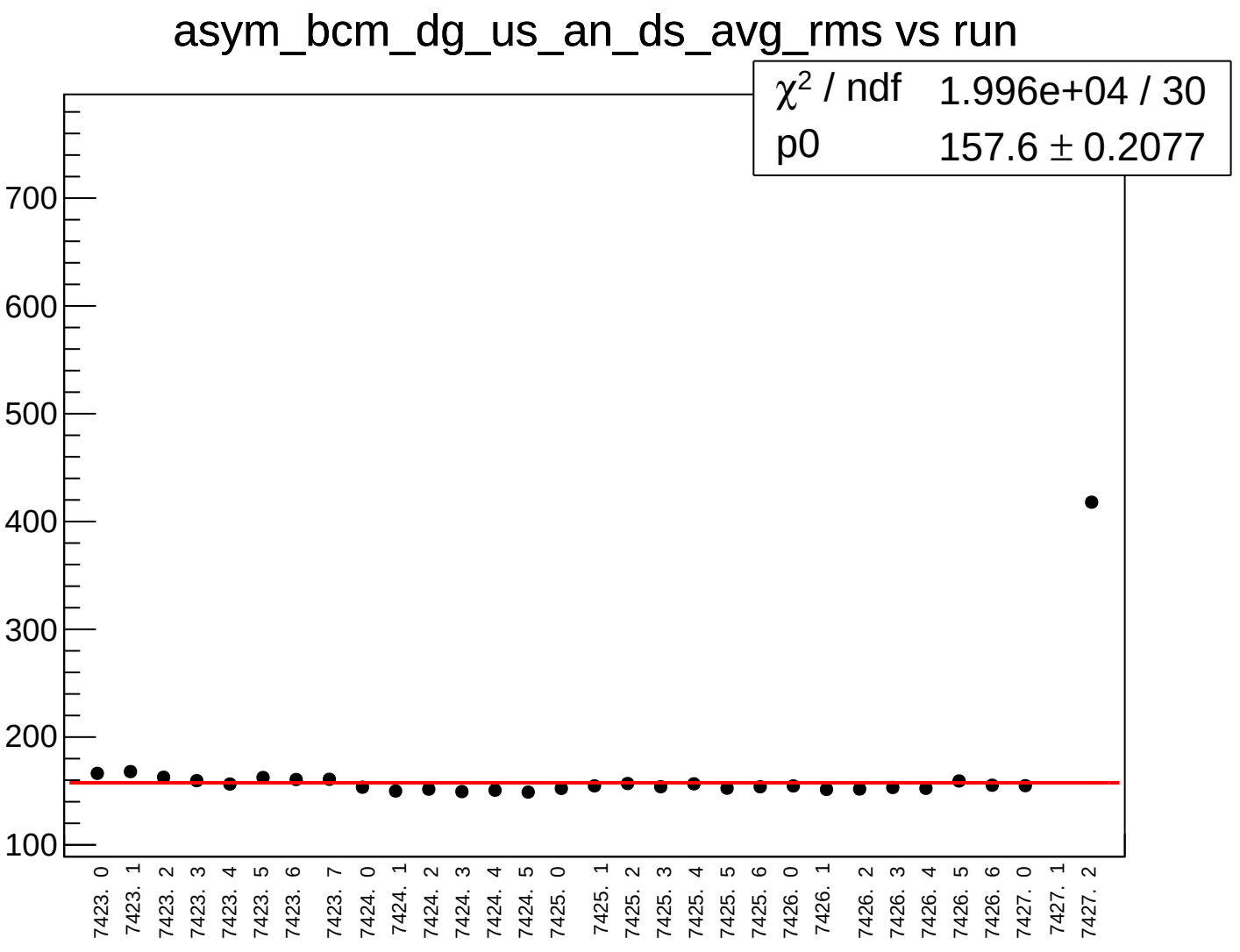

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2.007e+04 / 30
p0 157 ± 0.207
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

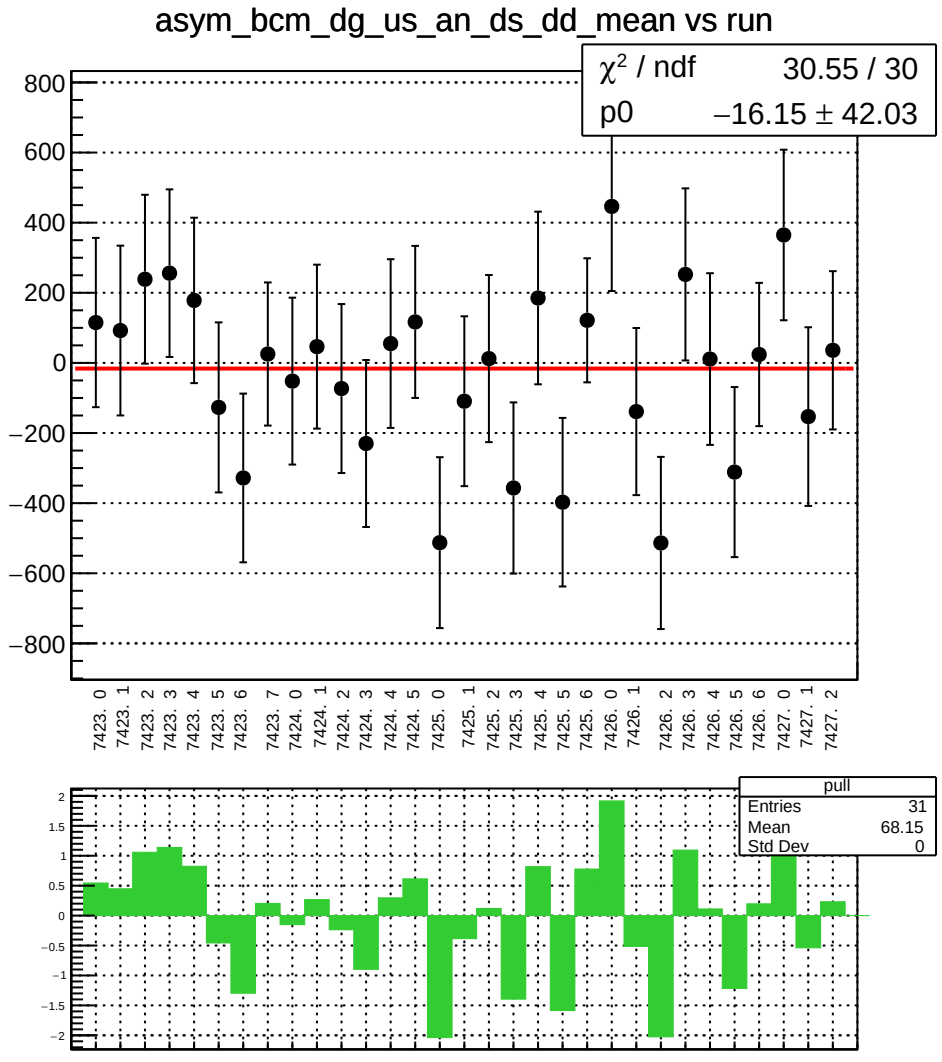

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 16.31 / 30
p0 −3.346 ± 32.33
400
200
0
−200
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −251.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.008089
Std Dev 0.7253
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

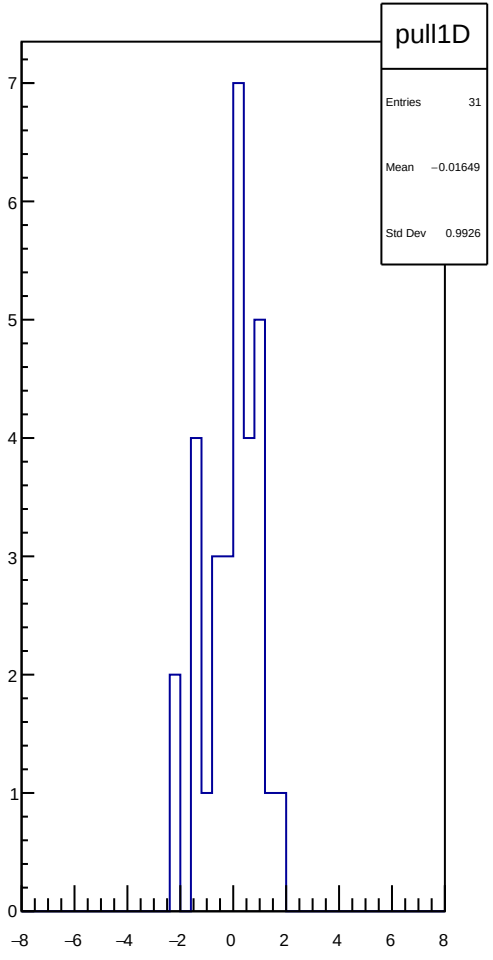

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 384.9 / 30
p0 17.64 ± 0.02286
18.5
18
17.5
17
16.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

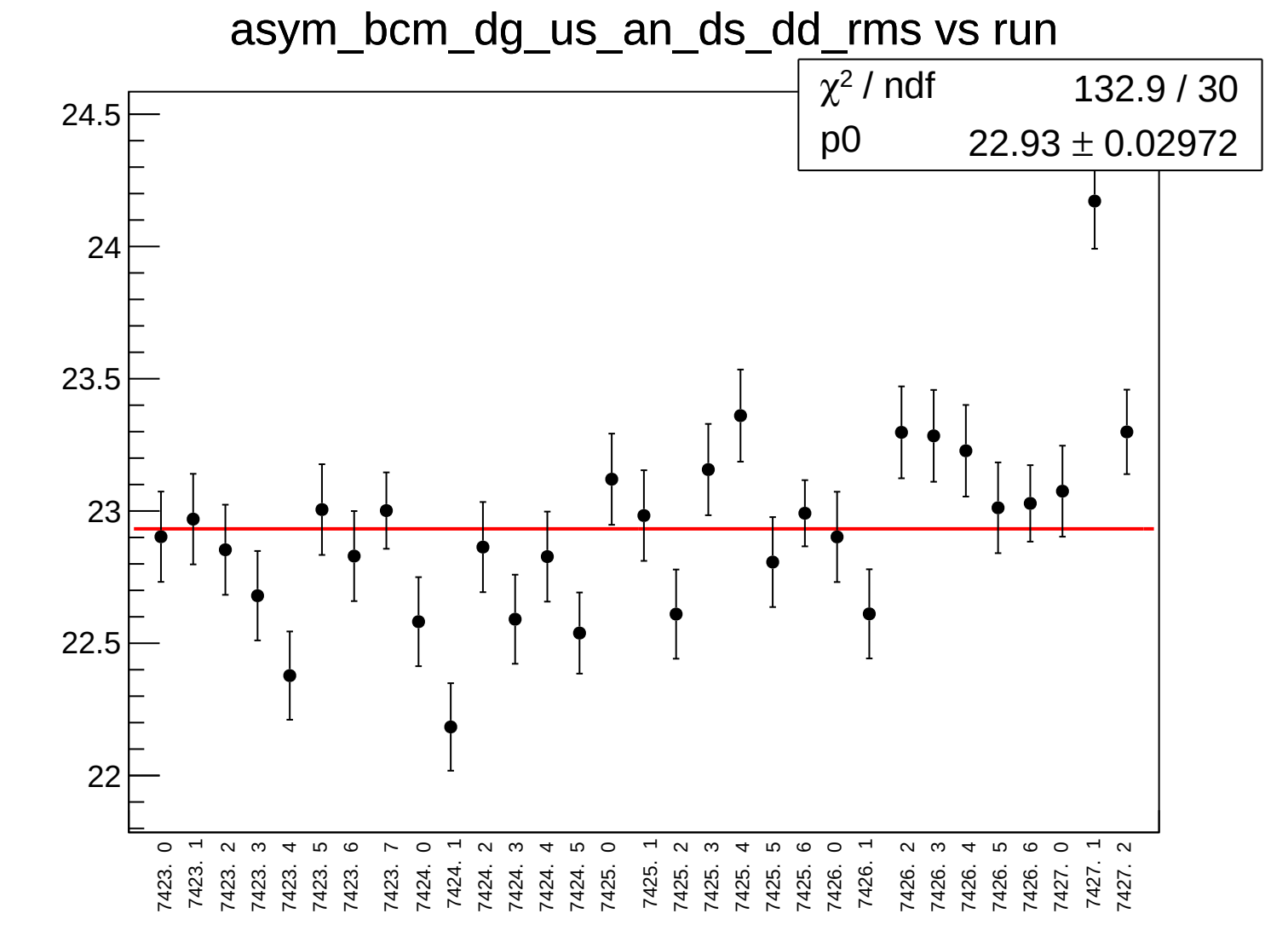

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 7.369 / 30
p0 0.6134 ± 293.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1115
Std Dev 0
1.5
1
0.5
0
−0.5

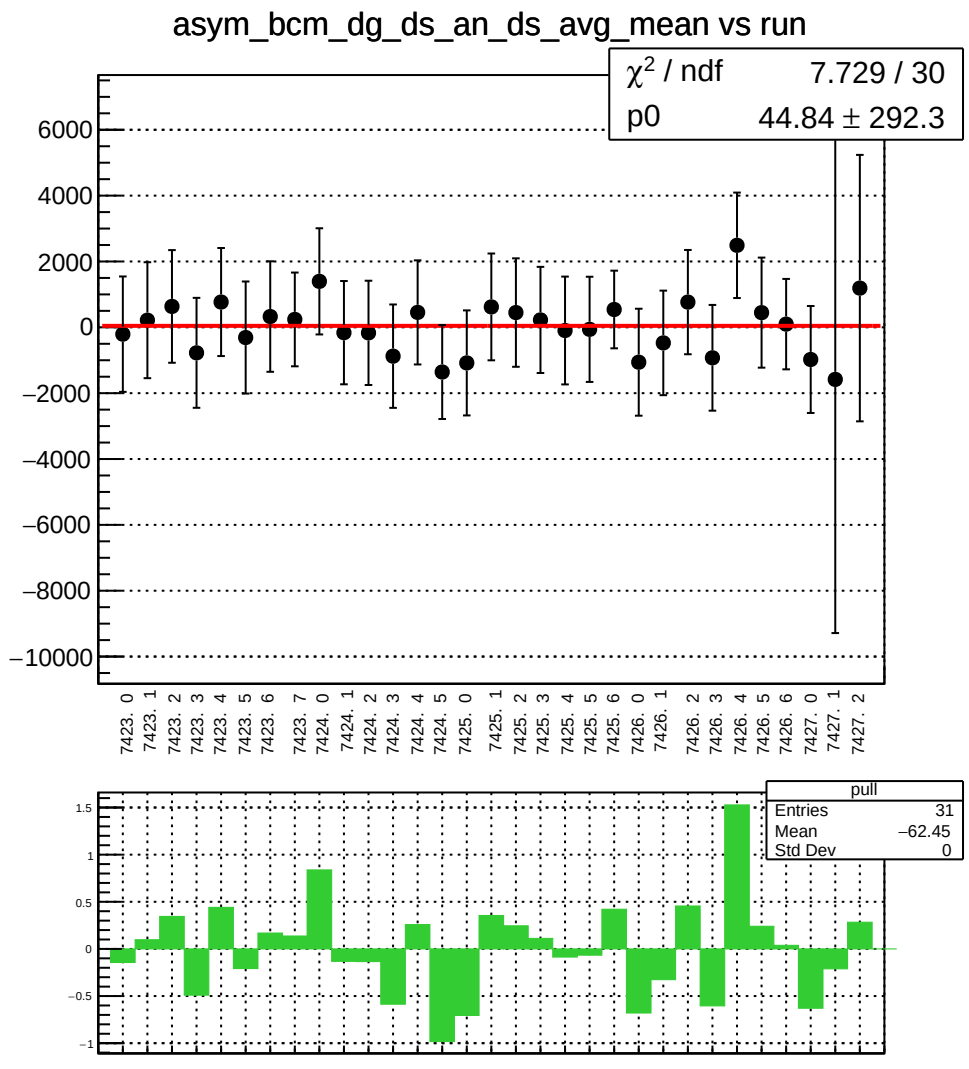

pull1D
Entries 31
Mean −0.0003107
Std Dev 0.4875
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

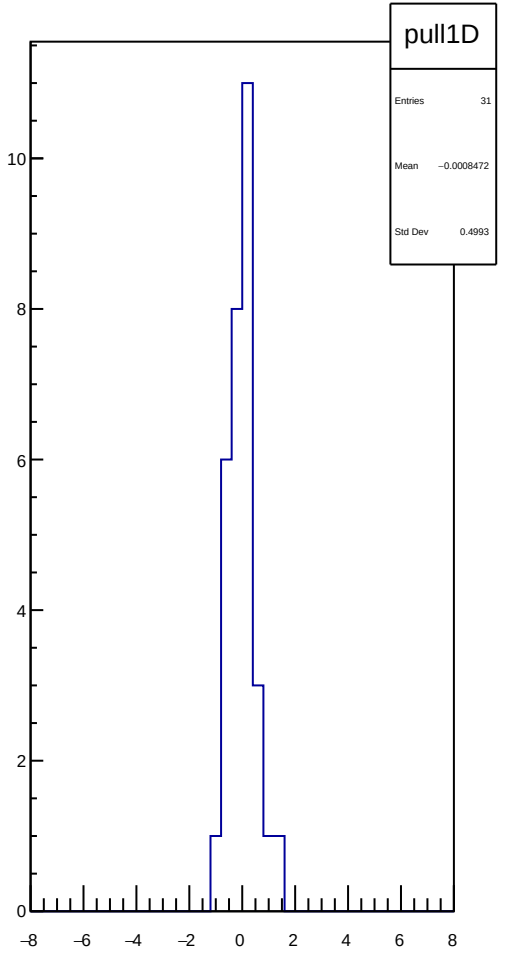

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.996e+04 / 30
p0 157.6 ± 0.2077
700
600
500
400
300
200
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

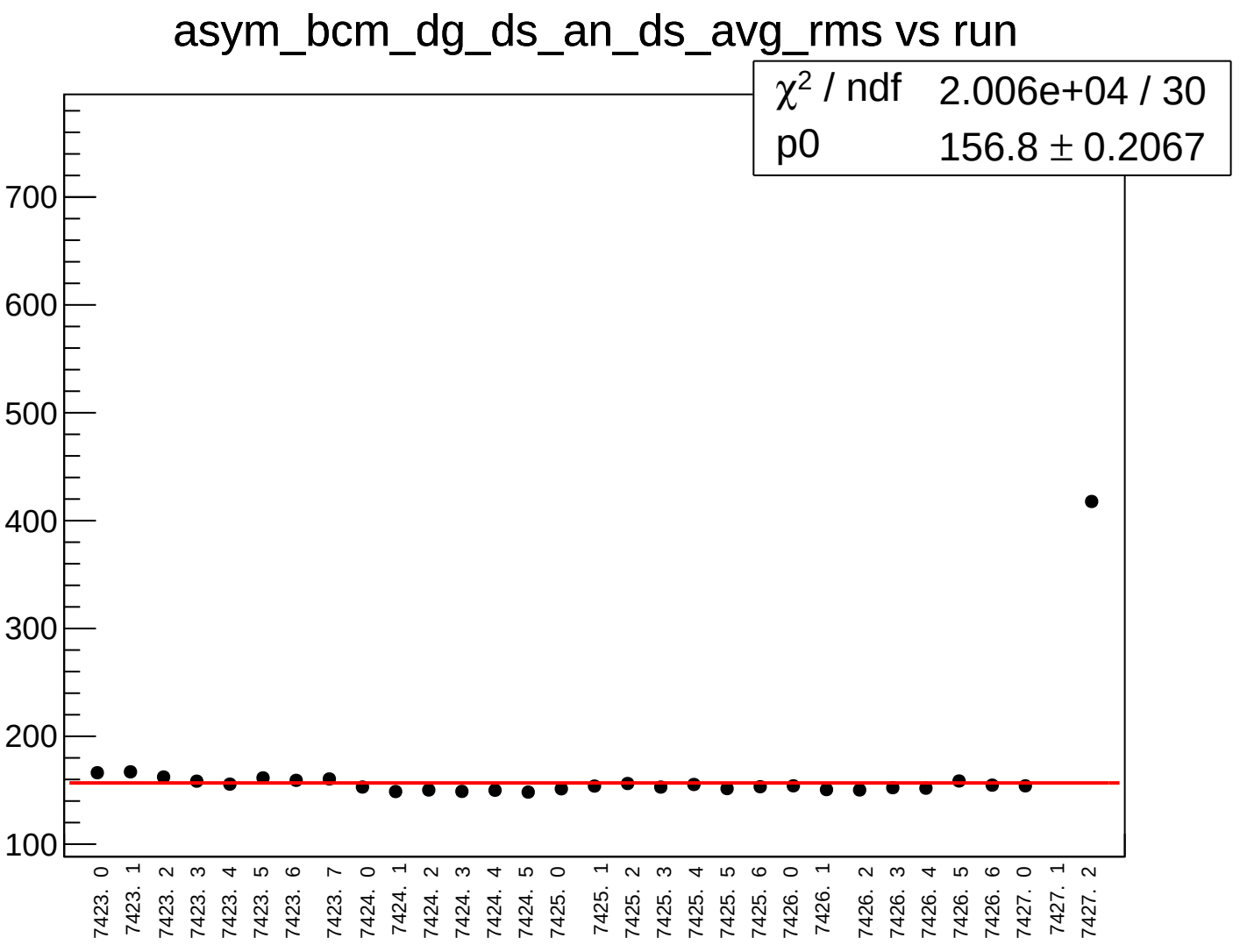

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 30.55 / 30
p0 −16.15 ± 42.03
800
600
400
200
0
−200
−400
−600
−800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

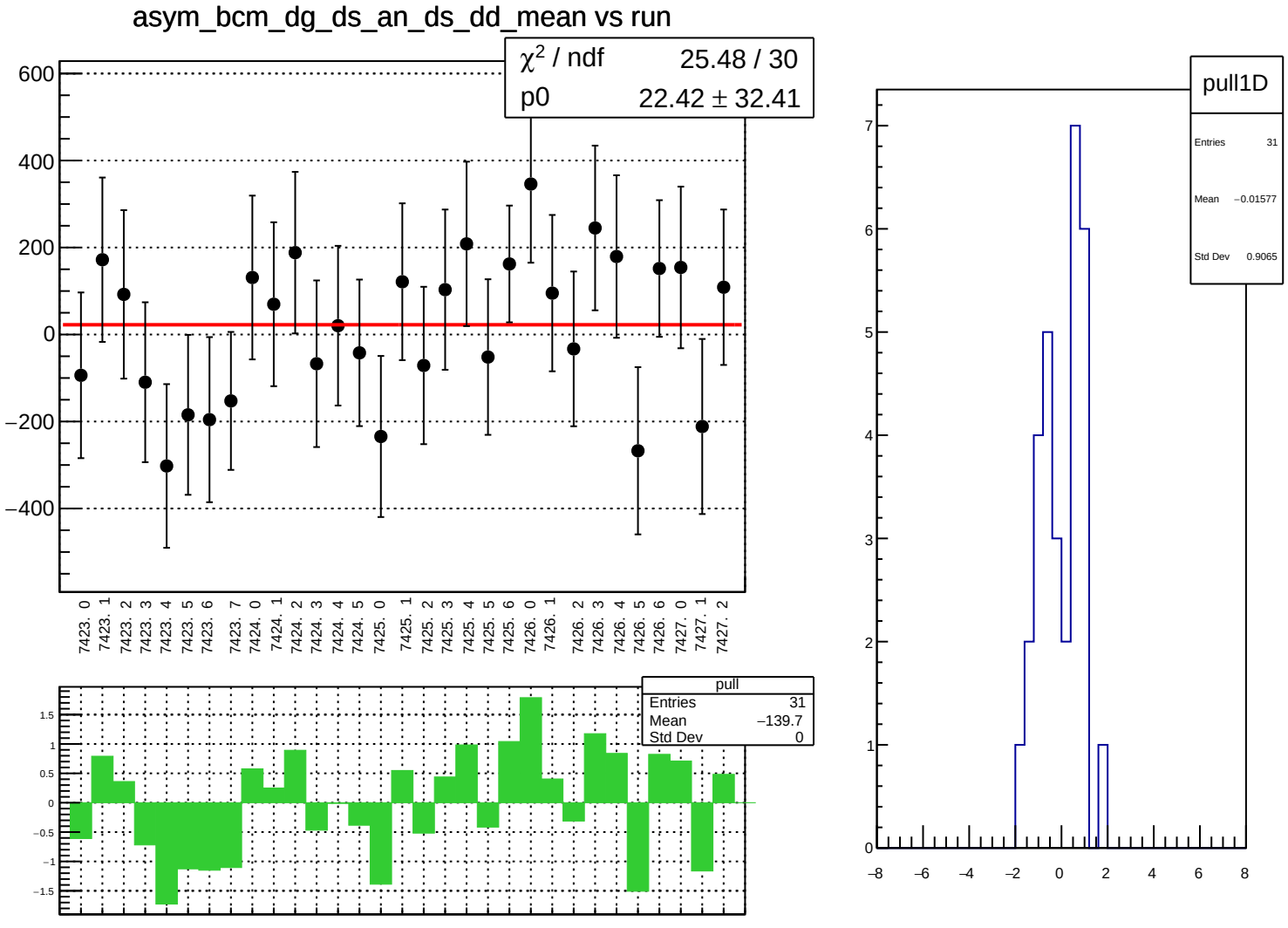

pull1D
Entries 31
Mean −0.01649
Std Dev 0.9926
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

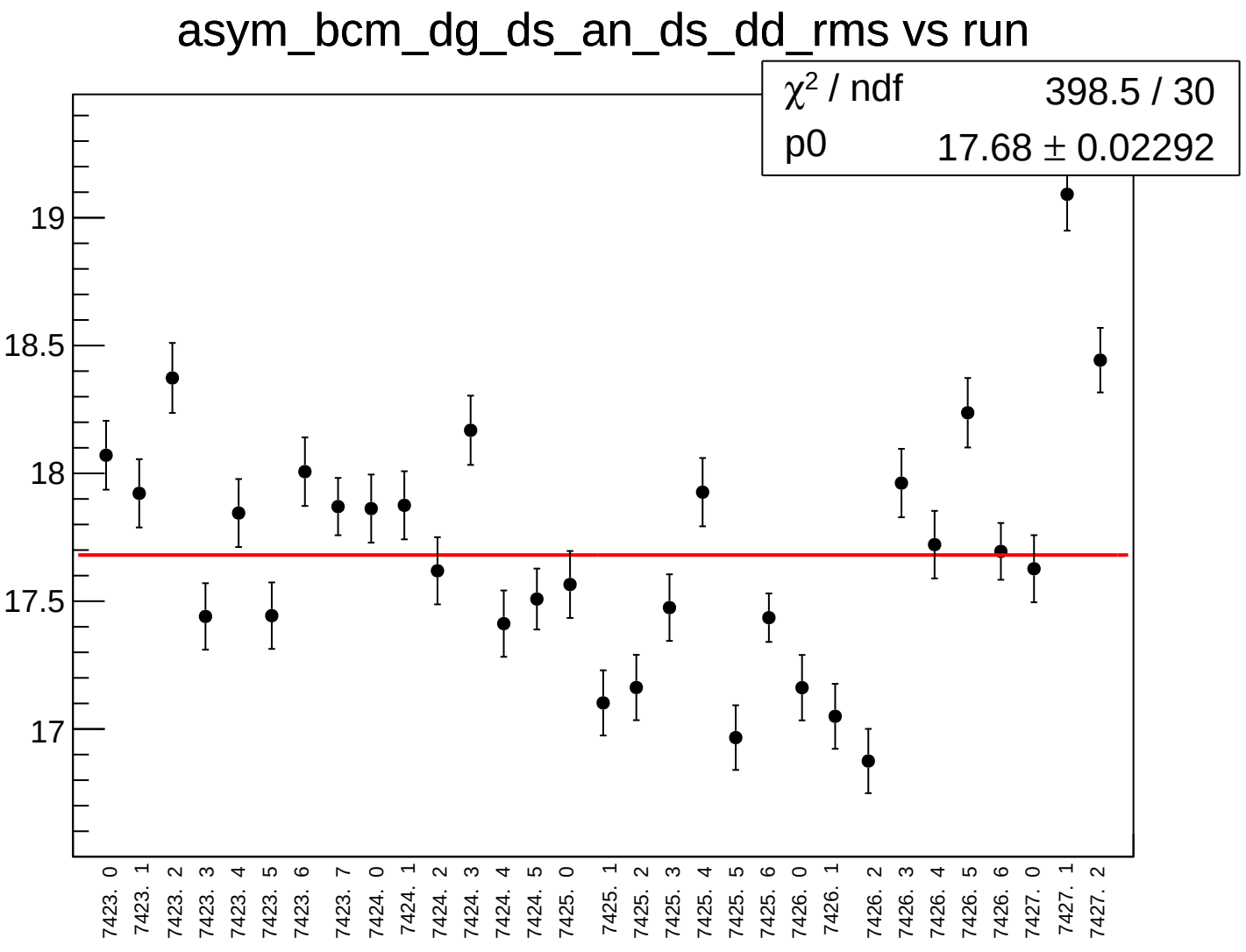

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 132.9 / 30
p0 22.93 ± 0.02972
24.5
24
23.5
23
22.5
22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

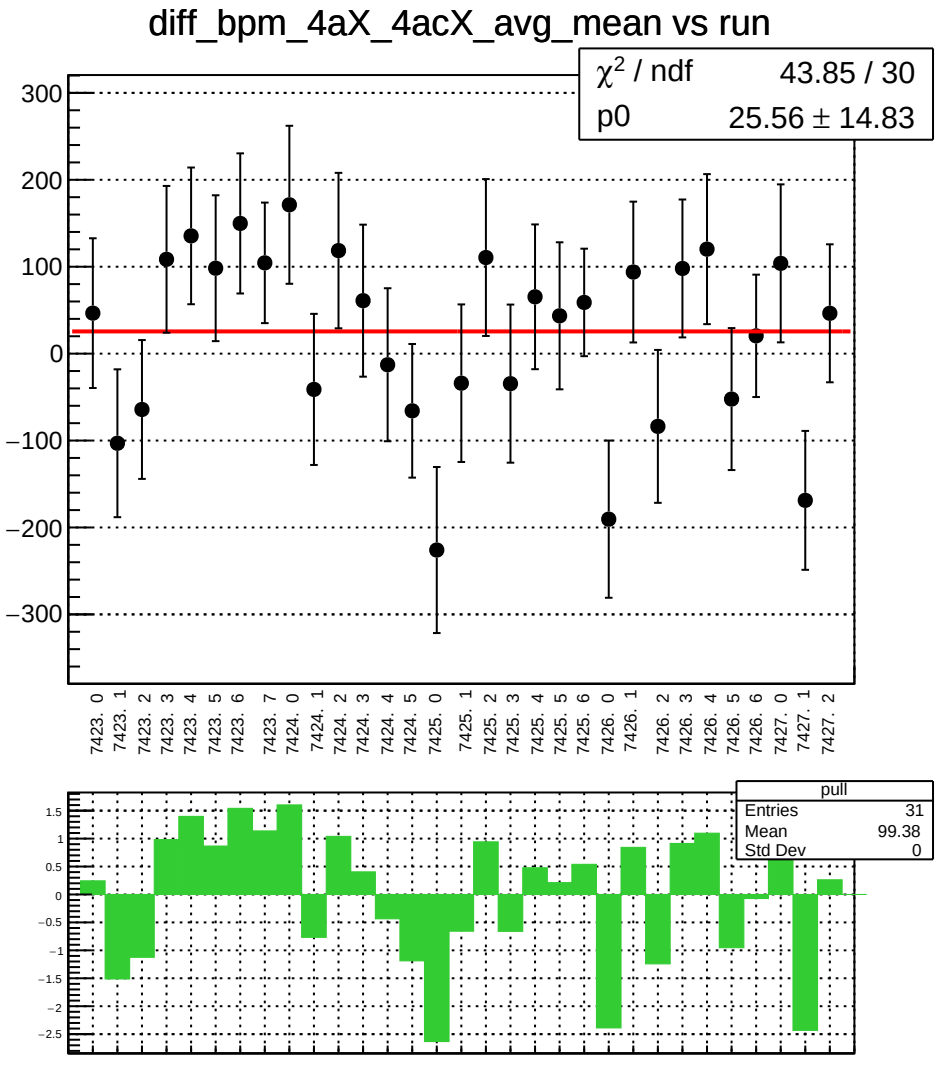

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 7.729 / 30
p0 44.84 ± 292.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −62.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1

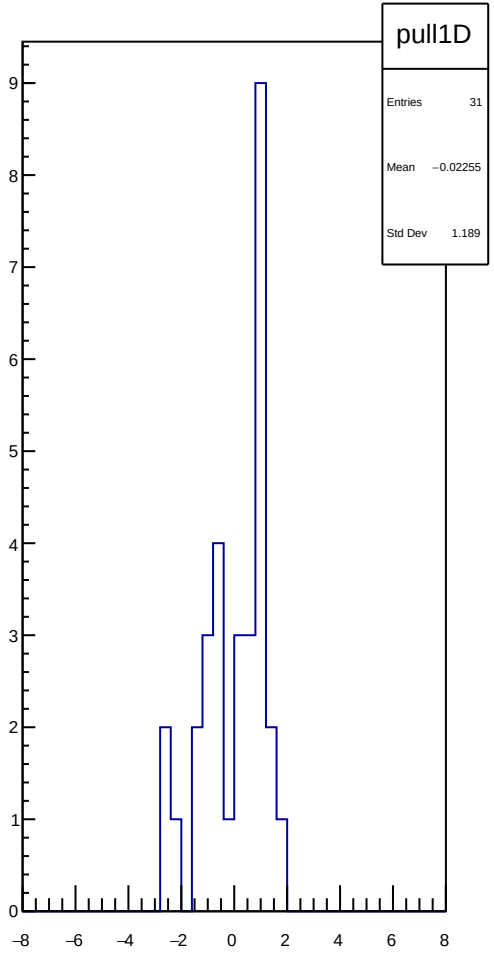

pull1D
Entries 31
Mean −0.0008472
Std Dev 0.4993
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

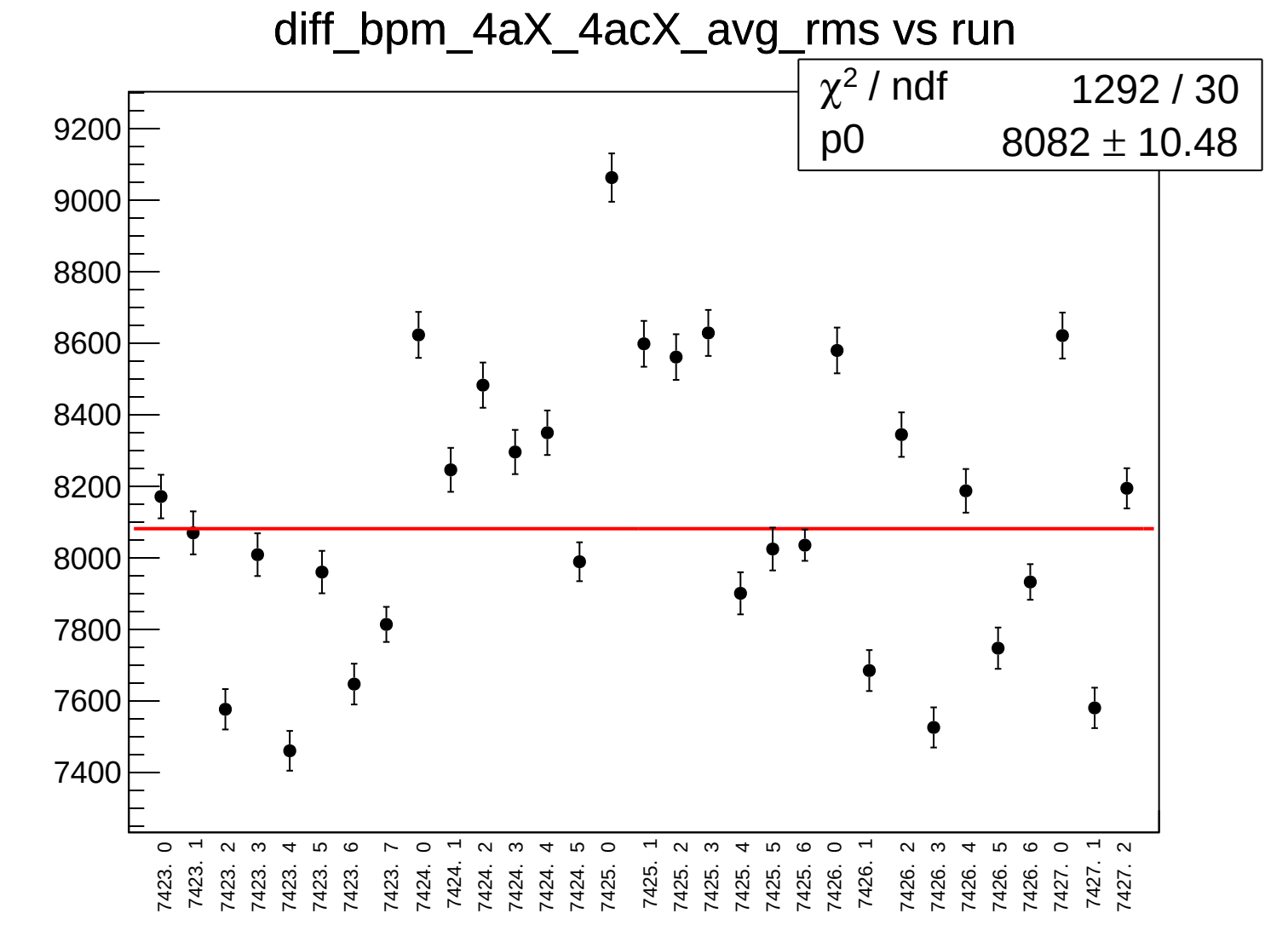

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2.006e+04 / 30
p0 156.8 ± 0.2067
700
600
500
400
300
200
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

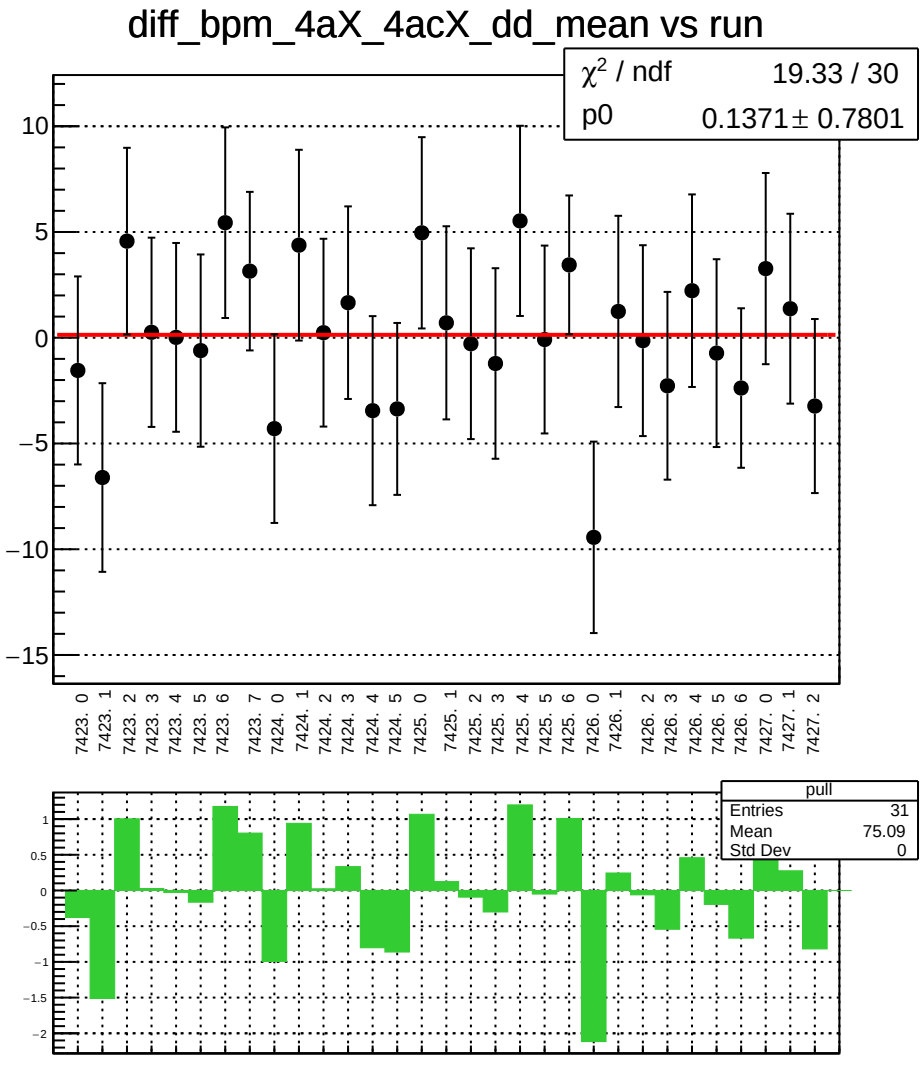

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 25.48 / 30
p0 22.42 ± 32.41
600
400
200
0
−200
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −139.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01577
Std Dev 0.9065
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

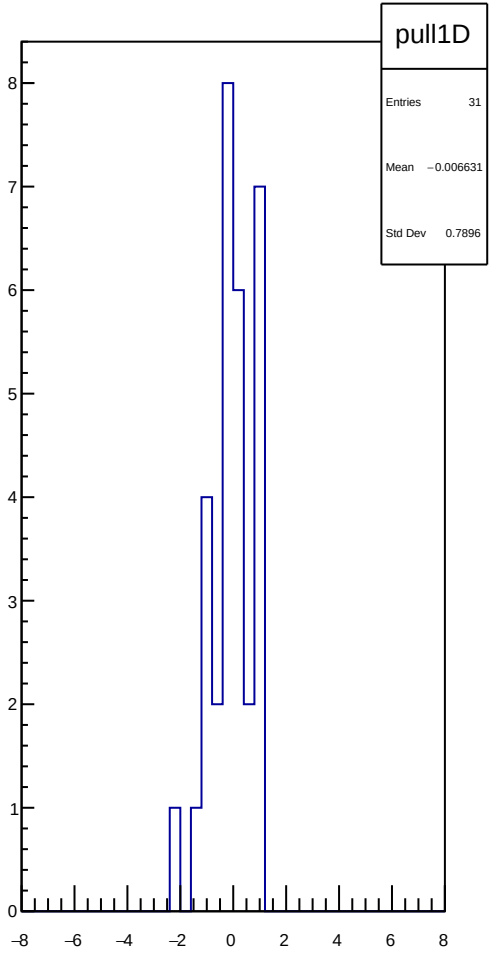

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 398.5 / 30
p0 17.68 ± 0.02292
19
18.5
18
17.5
17
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

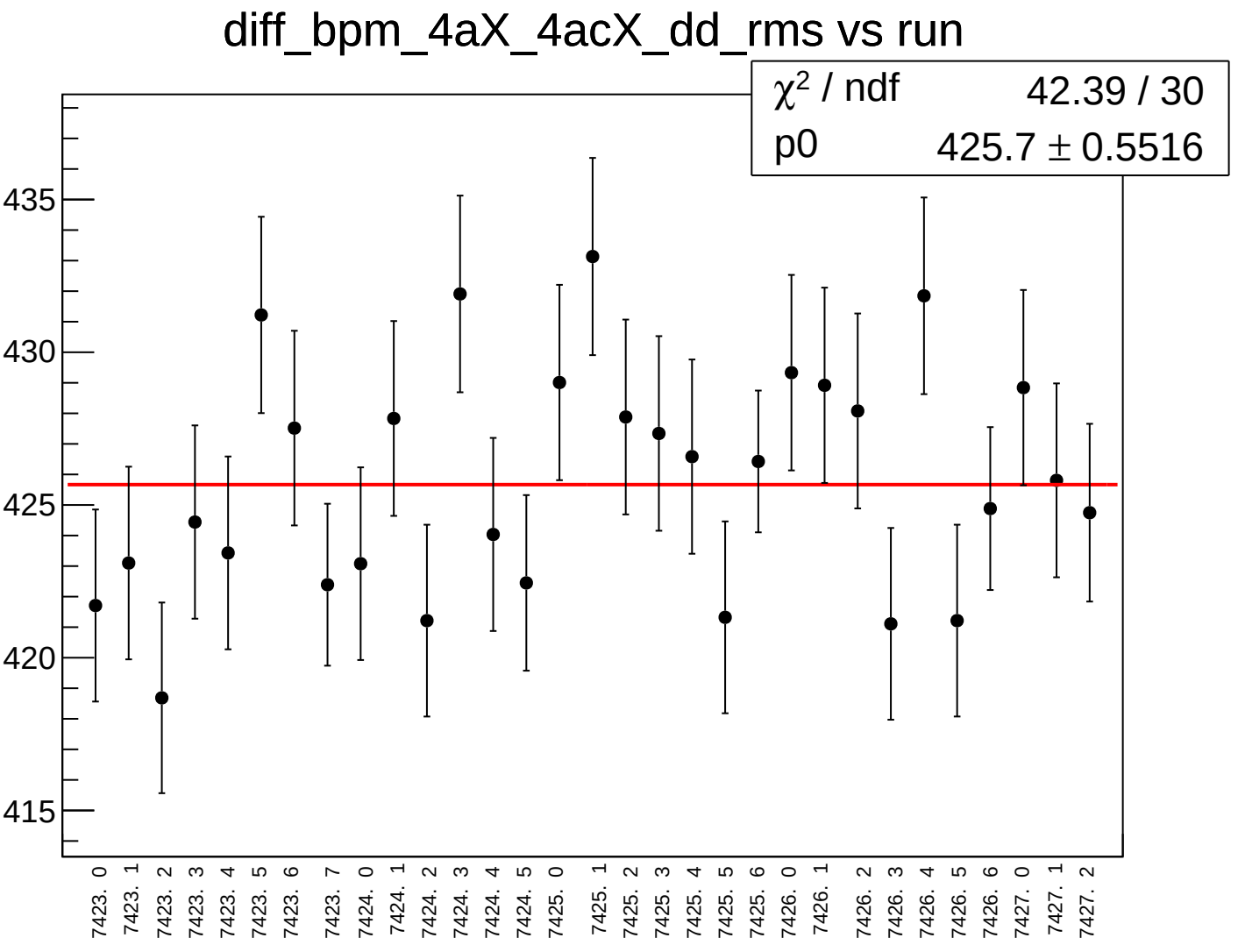

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 43.85 / 30
p0 25.56 ± 14.83
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 99.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

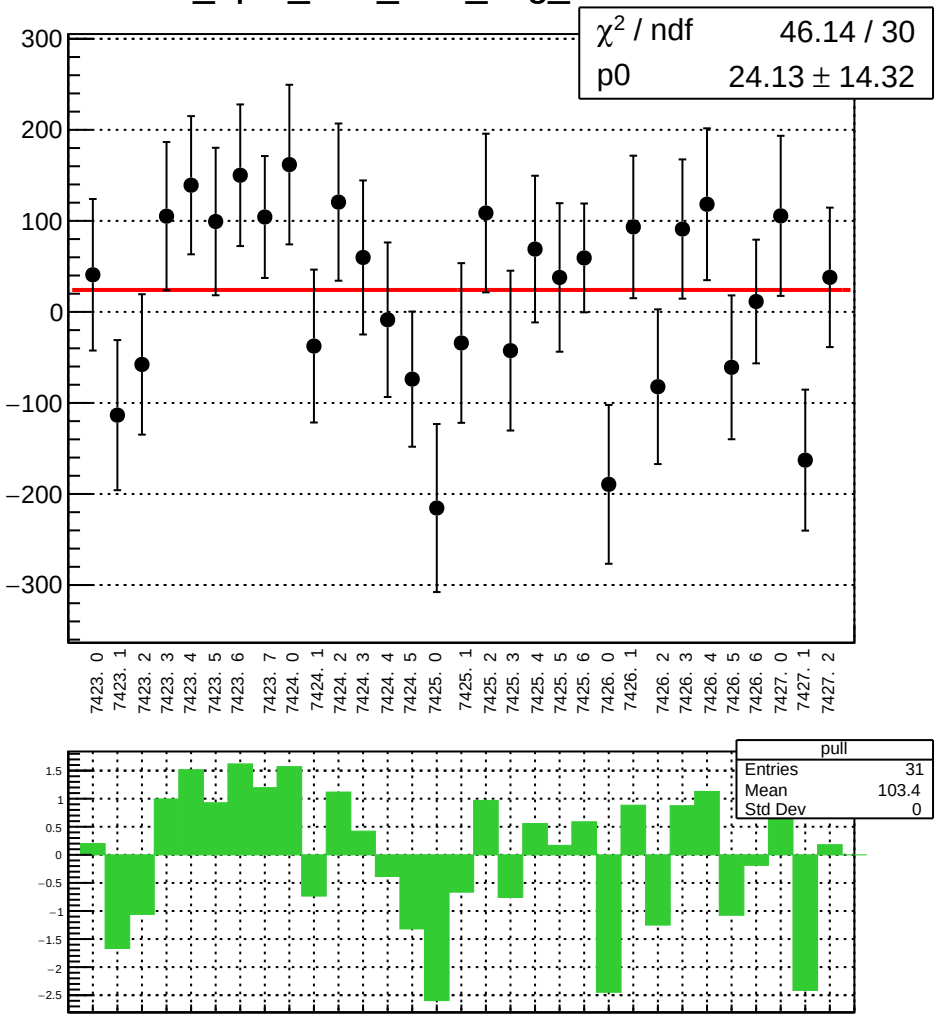

pull1D
Entries 31
Mean −0.02255
Std Dev 1.189
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

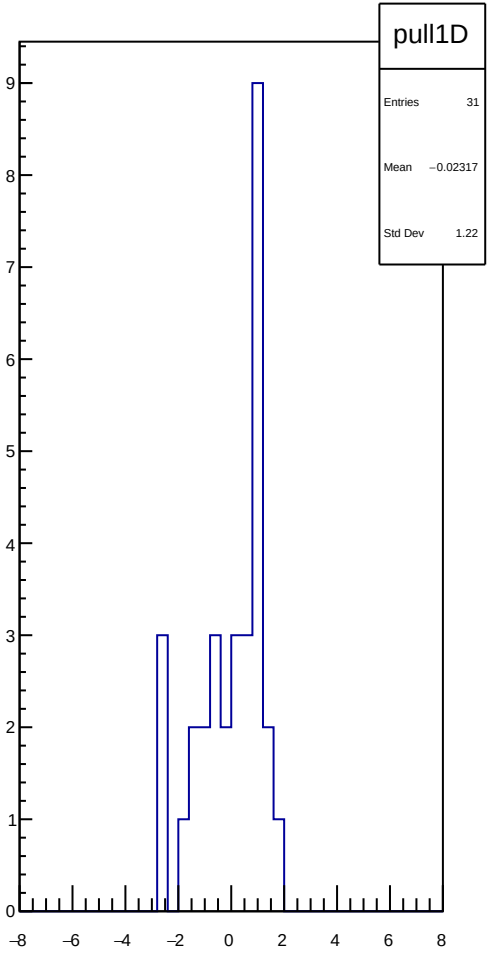

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1292 / 30
p0 8082 ± 10.48
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

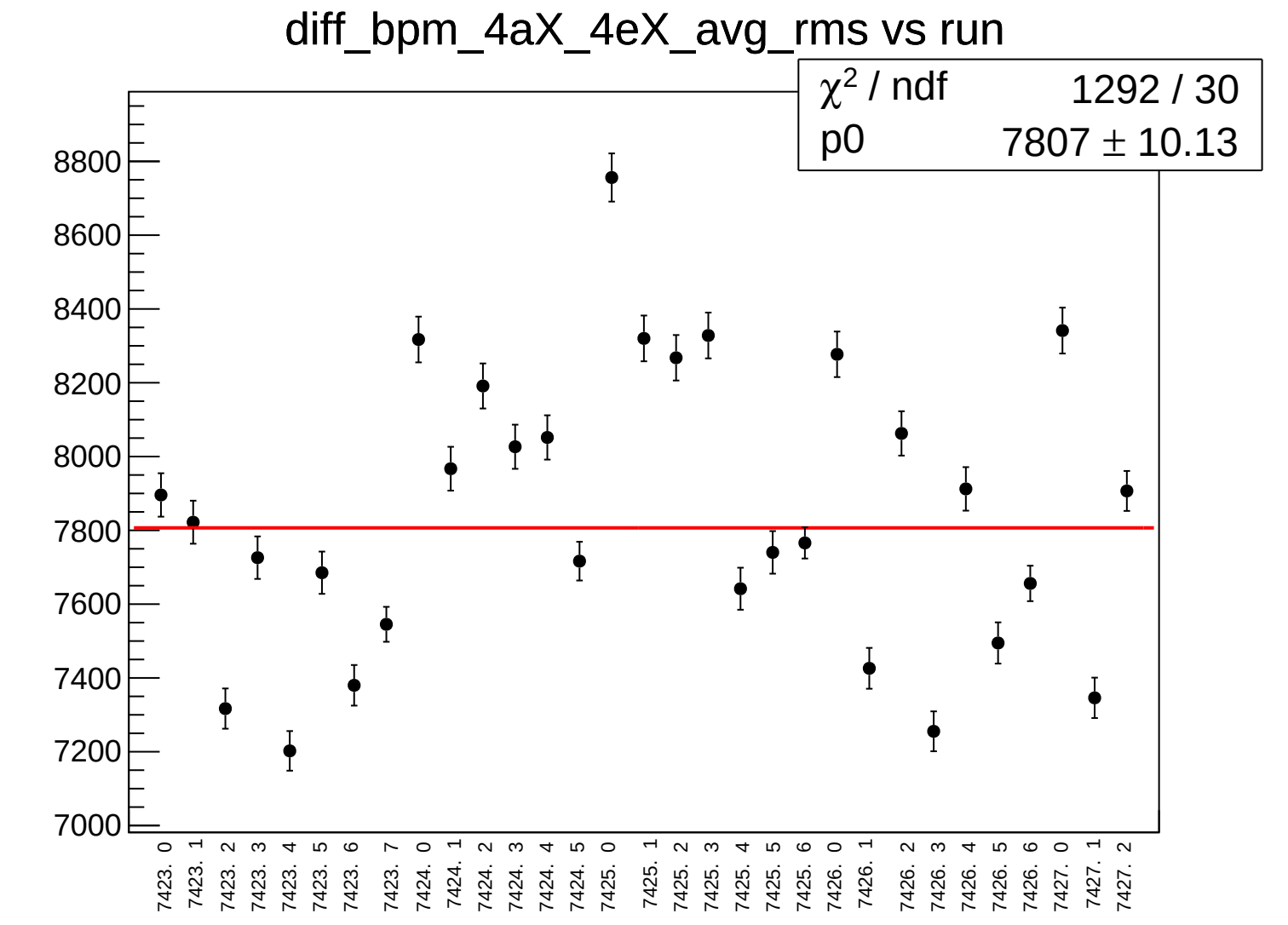

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 19.33 / 30
p0 0.1371± 0.7801
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 75.09
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

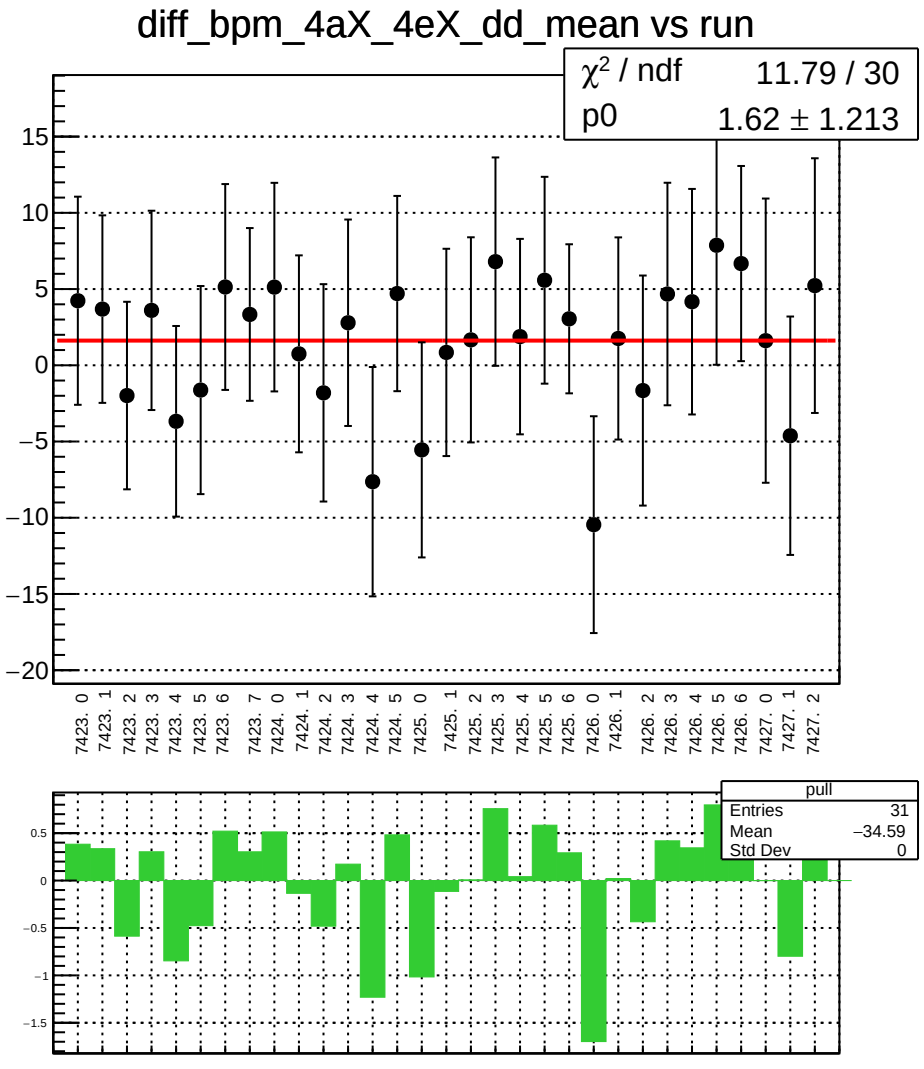

pull1D
Entries 31
Mean −0.006631
Std Dev 0.7896
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

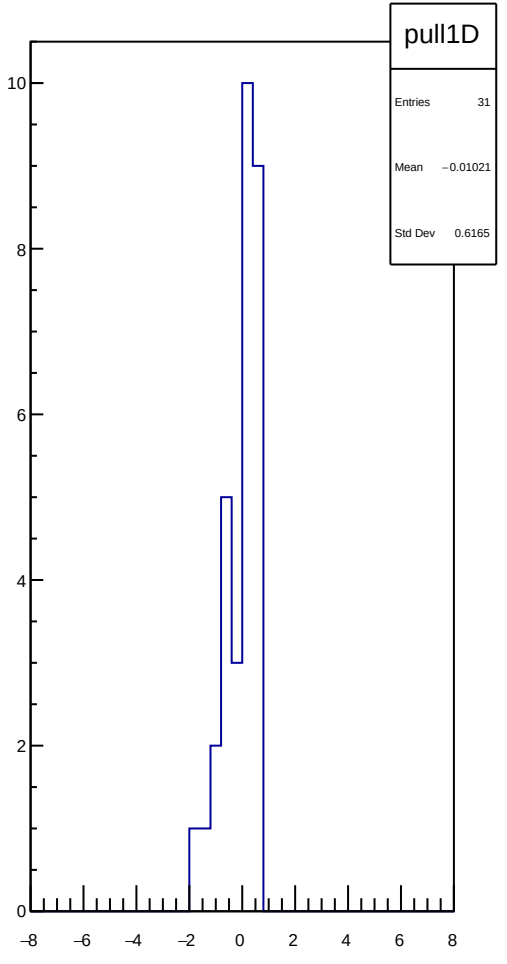

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 42.39 / 30
p0 425.7 ± 0.5516
435
430
425
420
415
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

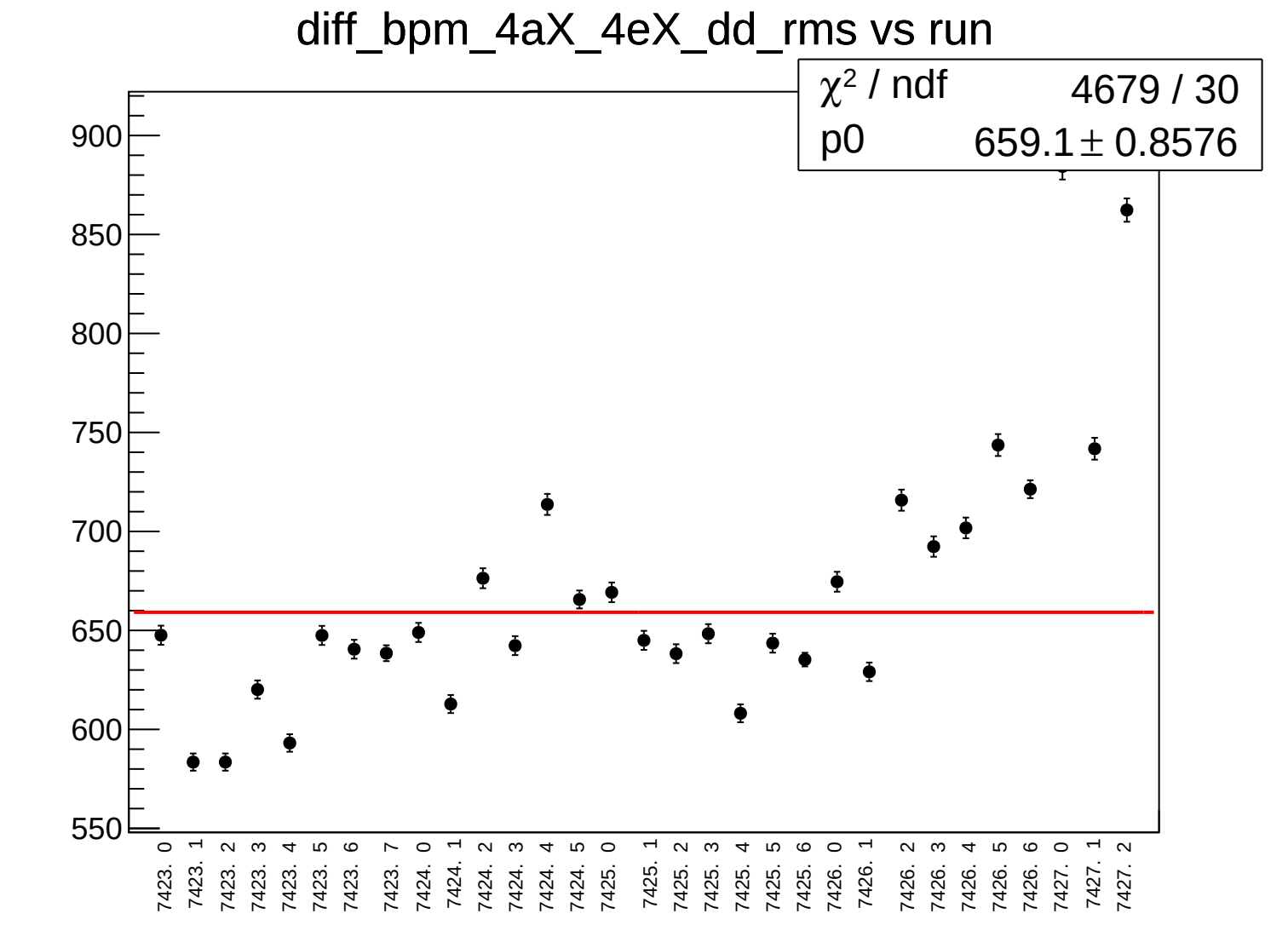

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 46.14 / 30
p0 24.13 ± 14.32
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

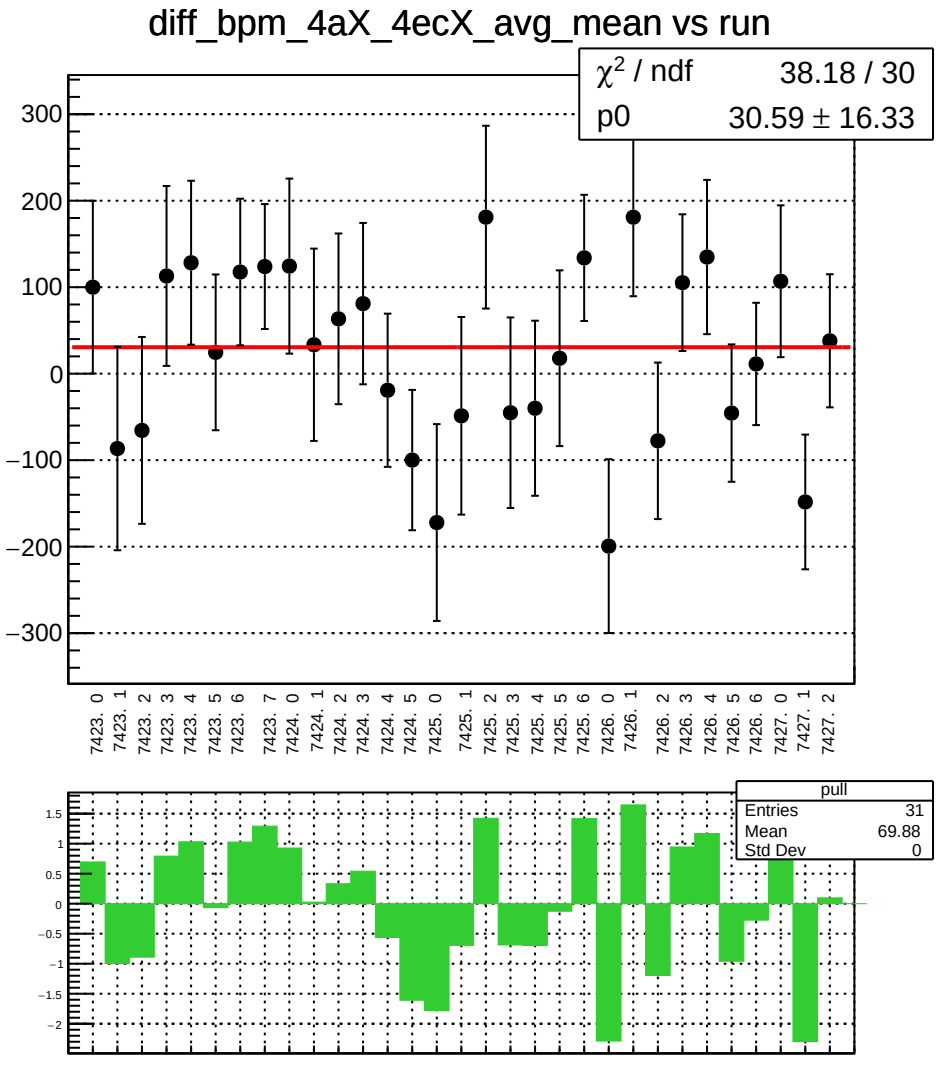

pull1D
Entries 31
Mean −0.02317
Std Dev 1.22
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

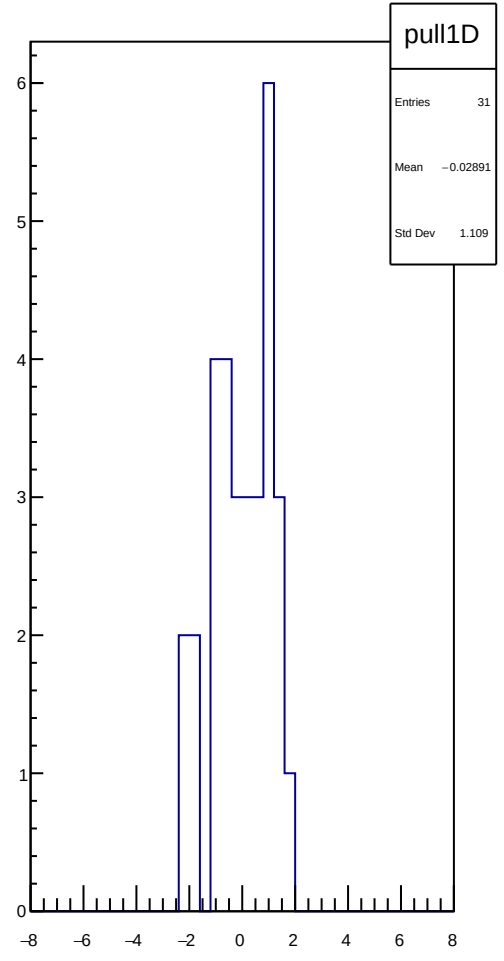

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1292 / 30
p0 7807 ± 10.13
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

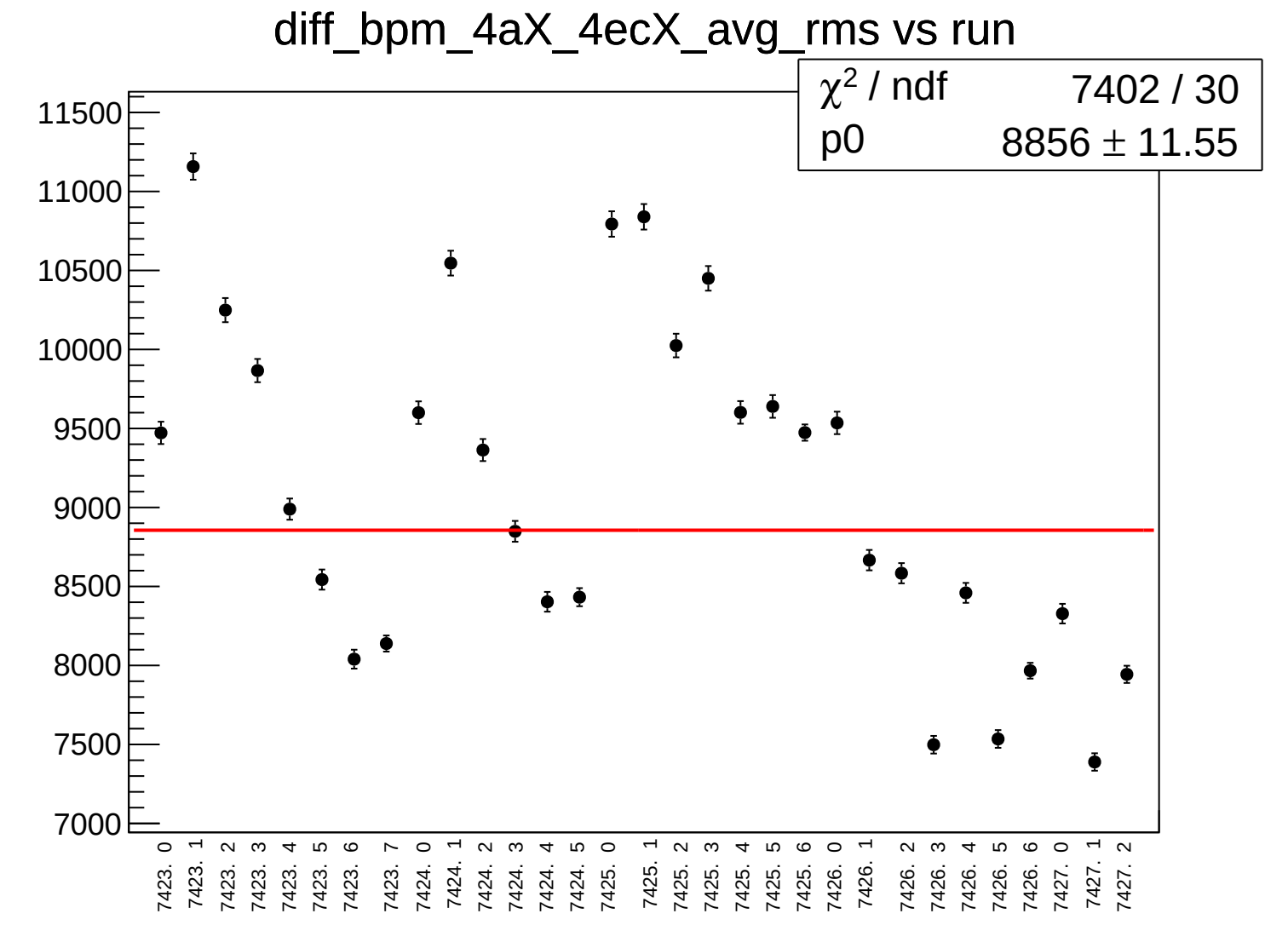

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 11.79 / 30
p0 1.62 ± 1.213
15
10
5
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −34.59
Std Dev 0
0.5
0
−0.5
−1
−1.5

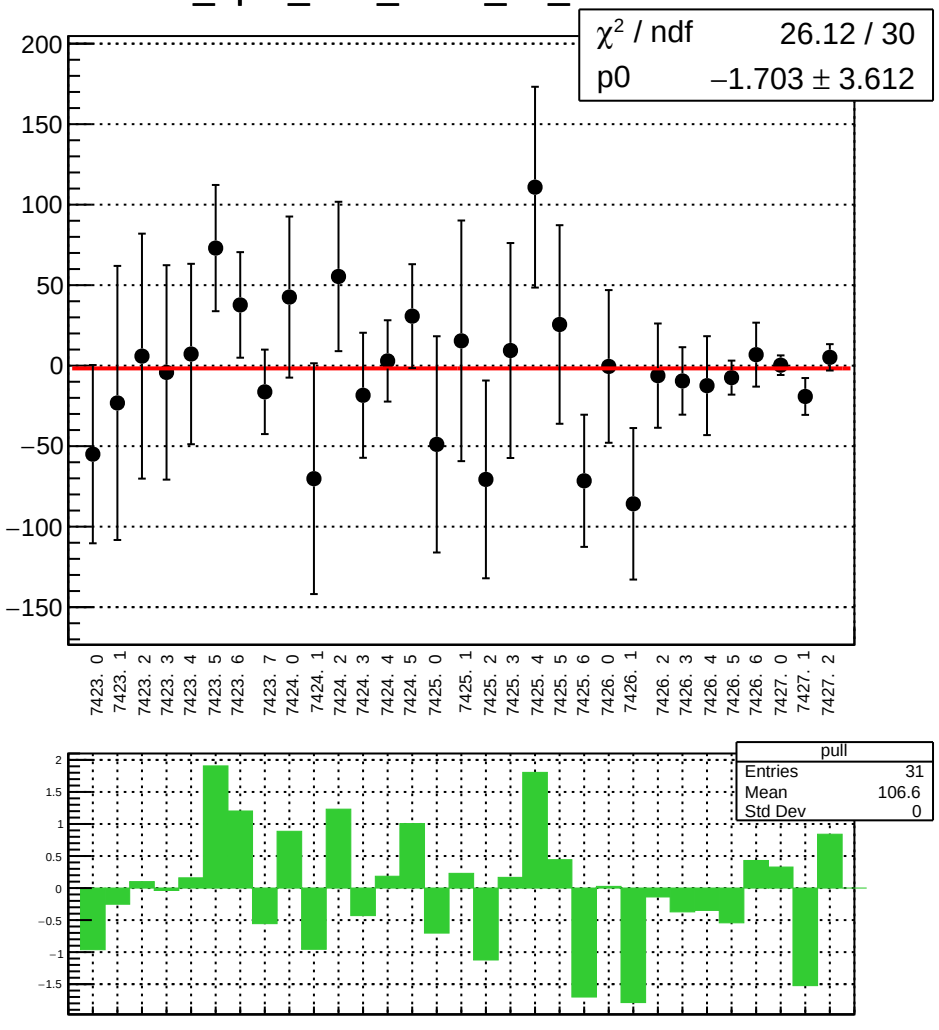

pull1D
Entries 31
Mean −0.01021
Std Dev 0.6165
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

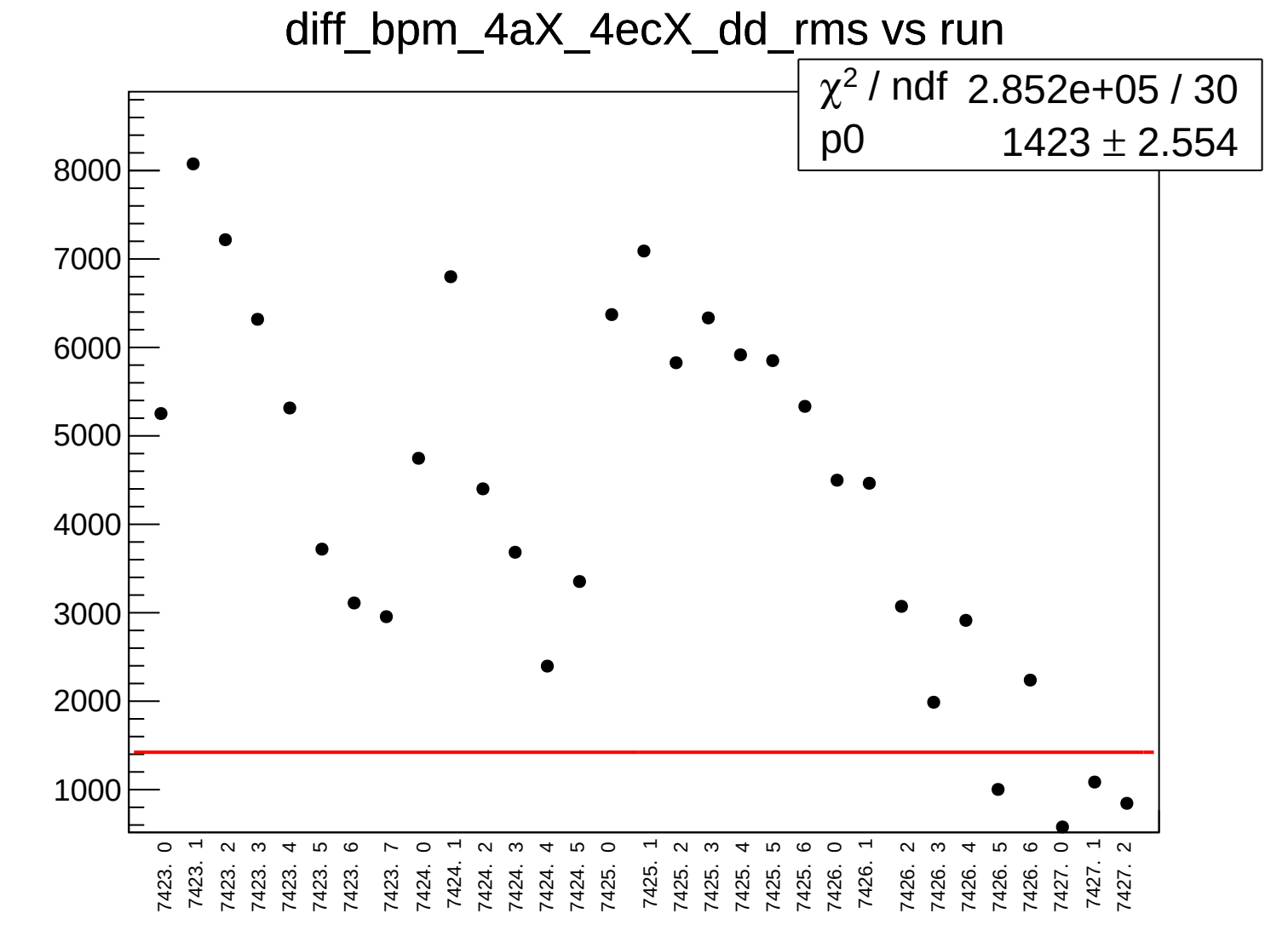

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 4679 / 30
p0 659.1 ± 0.8576
900
850
800
750
700
650
600
550
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

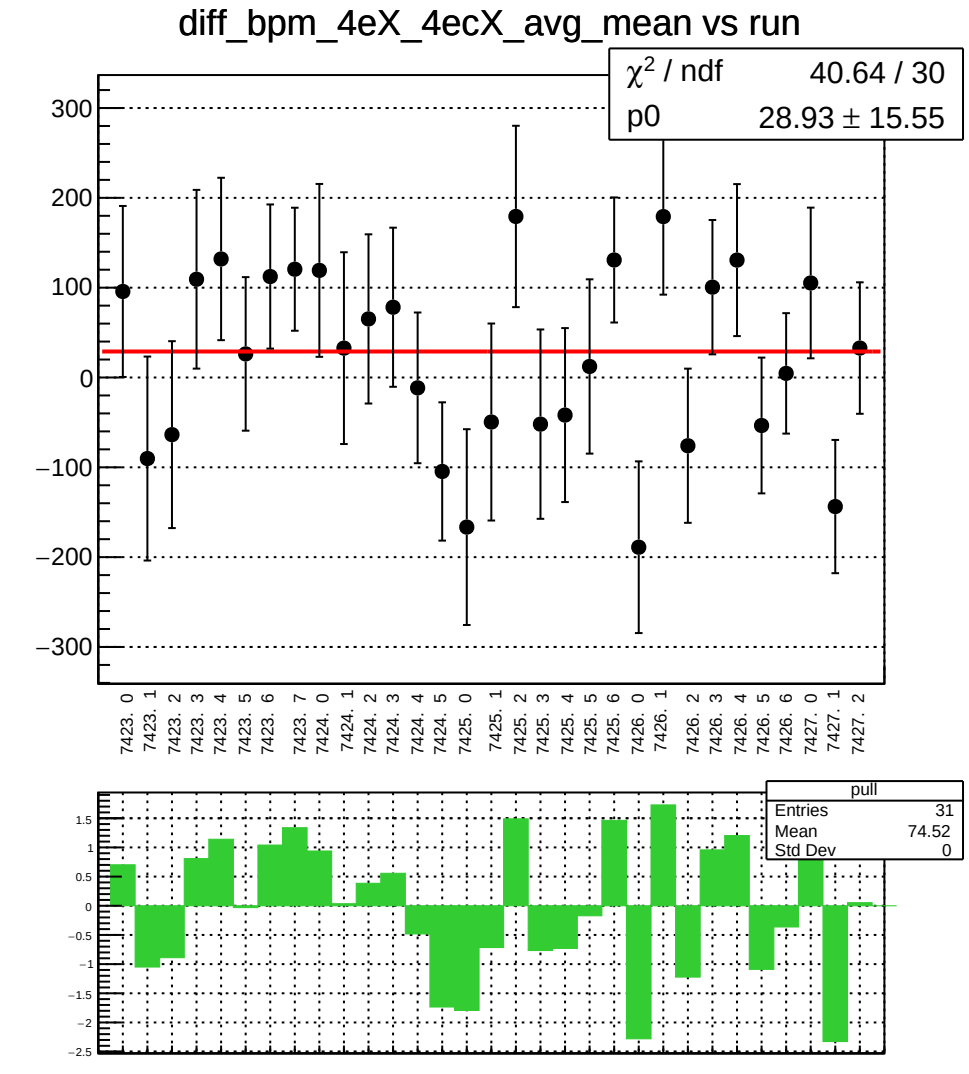

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 38.18 / 30
p0 30.59 ± 16.33
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 69.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

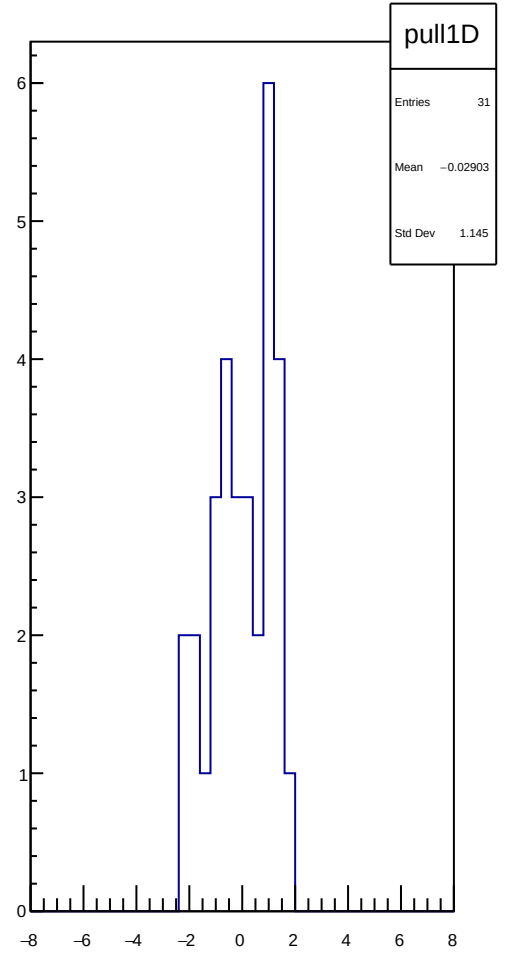

pull1D
Entries 31
Mean −0.02891
Std Dev 1.109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

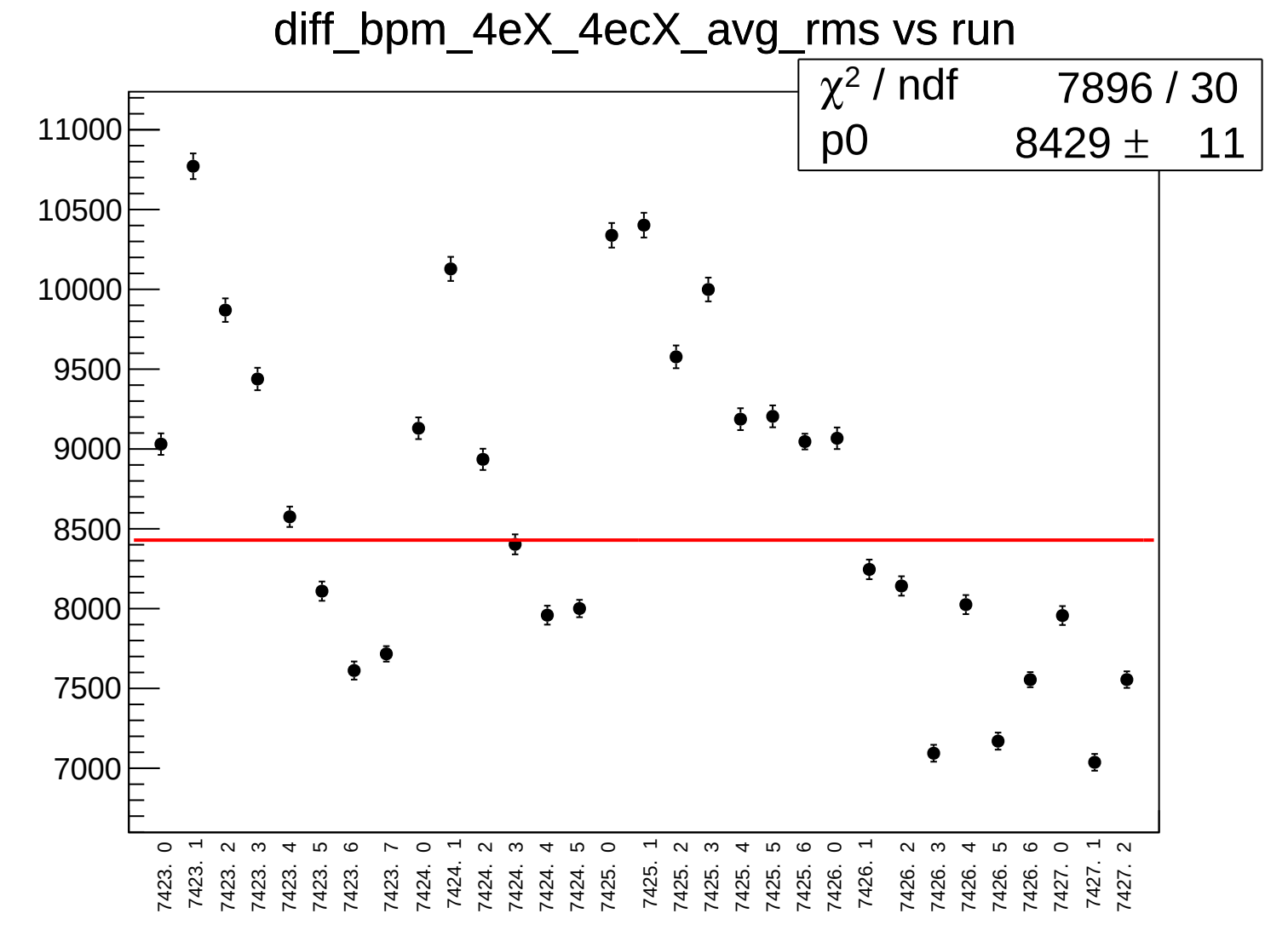

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 7402 / 30
p0 8856 ± 11.55
11500
11000
10500
10000
9500
9000
8500
8000
7500
7000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

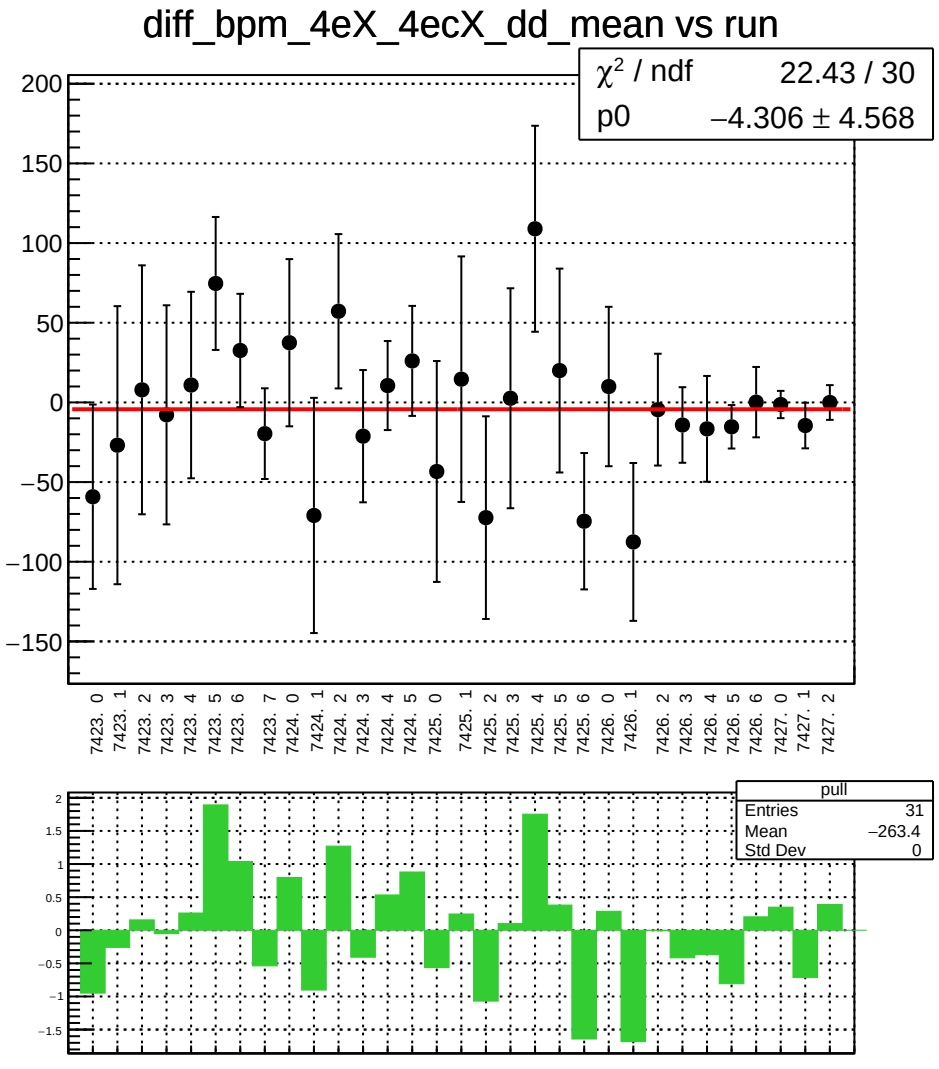

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 26.12 / 30
p0 −1.703 ± 3.612
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 106.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01577
Std Dev 0.9178
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

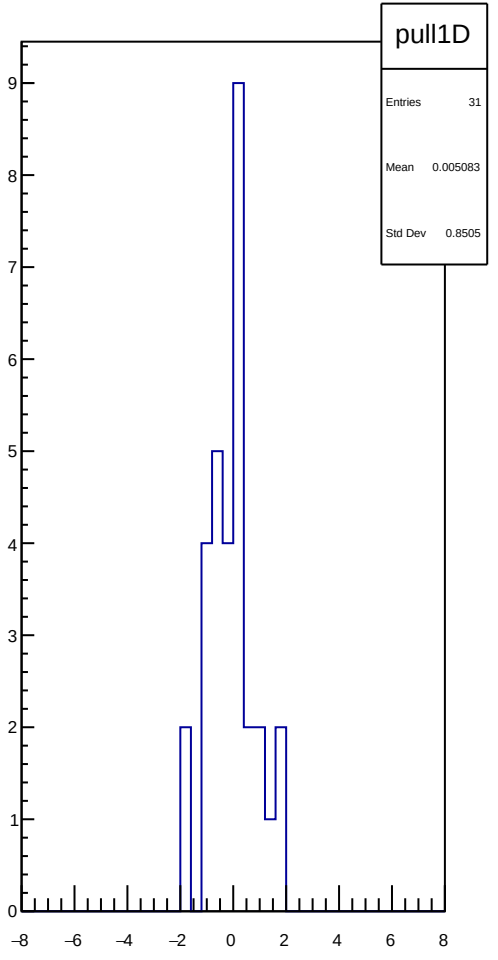

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 2.852e+05 / 30
p0 1423 ± 2.554
8000
7000
6000
5000
4000
3000
2000
1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

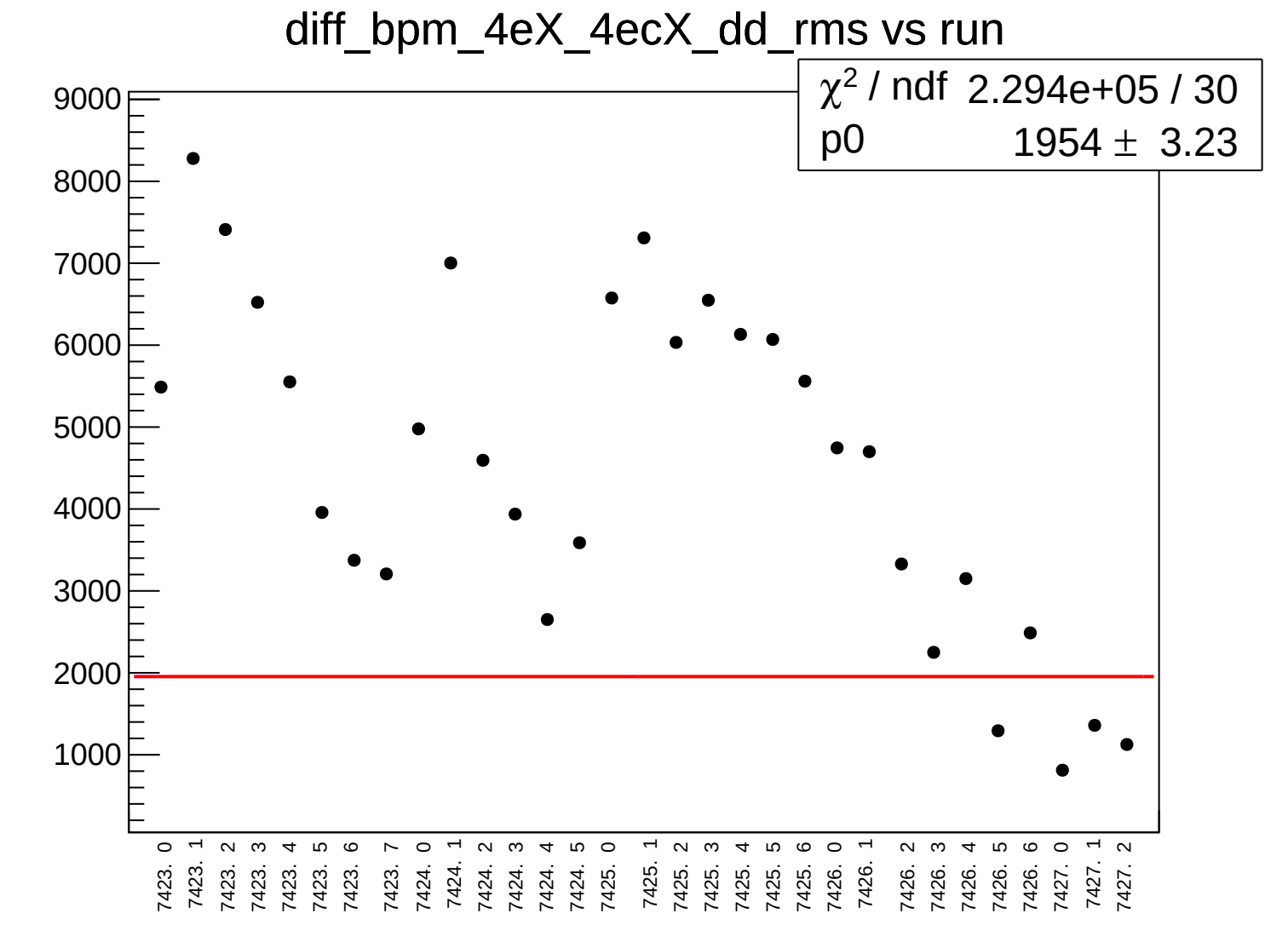

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 40.64 / 30
p0 28.93 ± 15.55
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 74.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

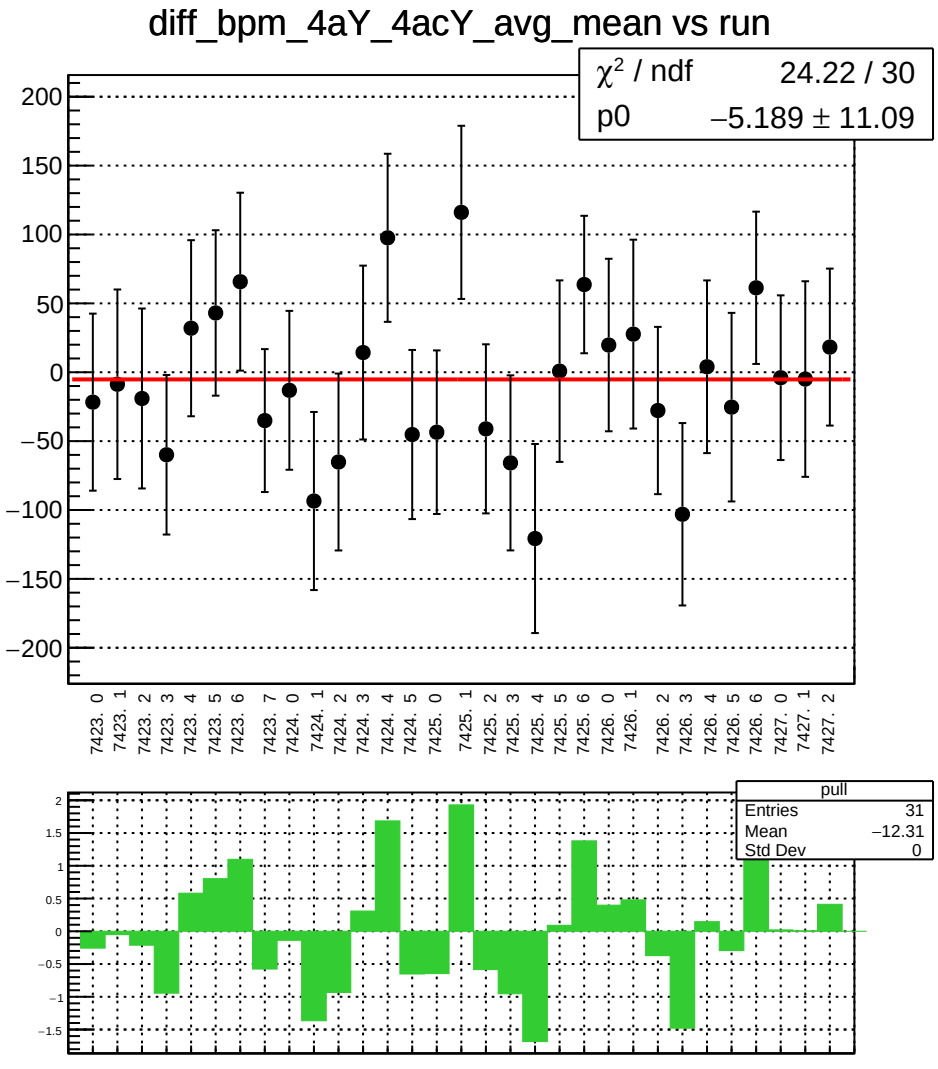

pull1D
Entries 31
Mean −0.02903
Std Dev 1.145
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

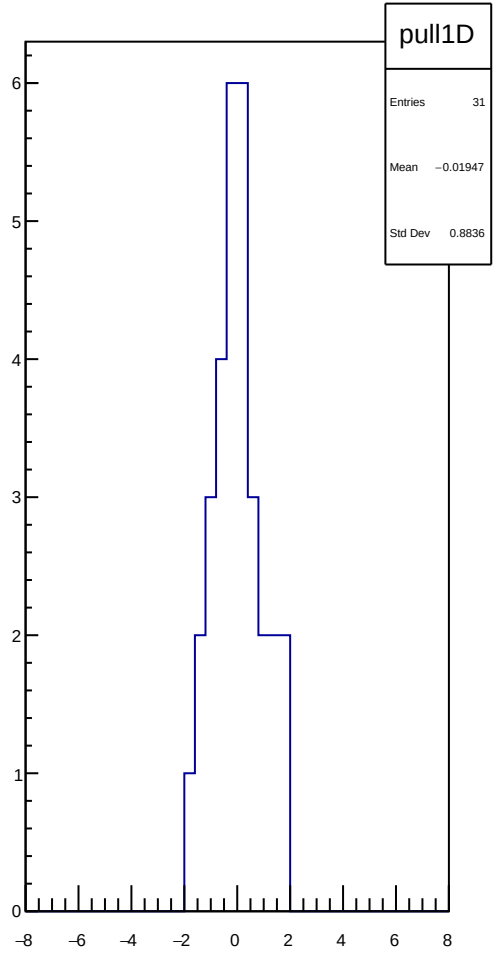

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 7896 / 30
p0 8429 ± 11
11000
10500
10000
9500
9000
8500
8000
7500
7000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

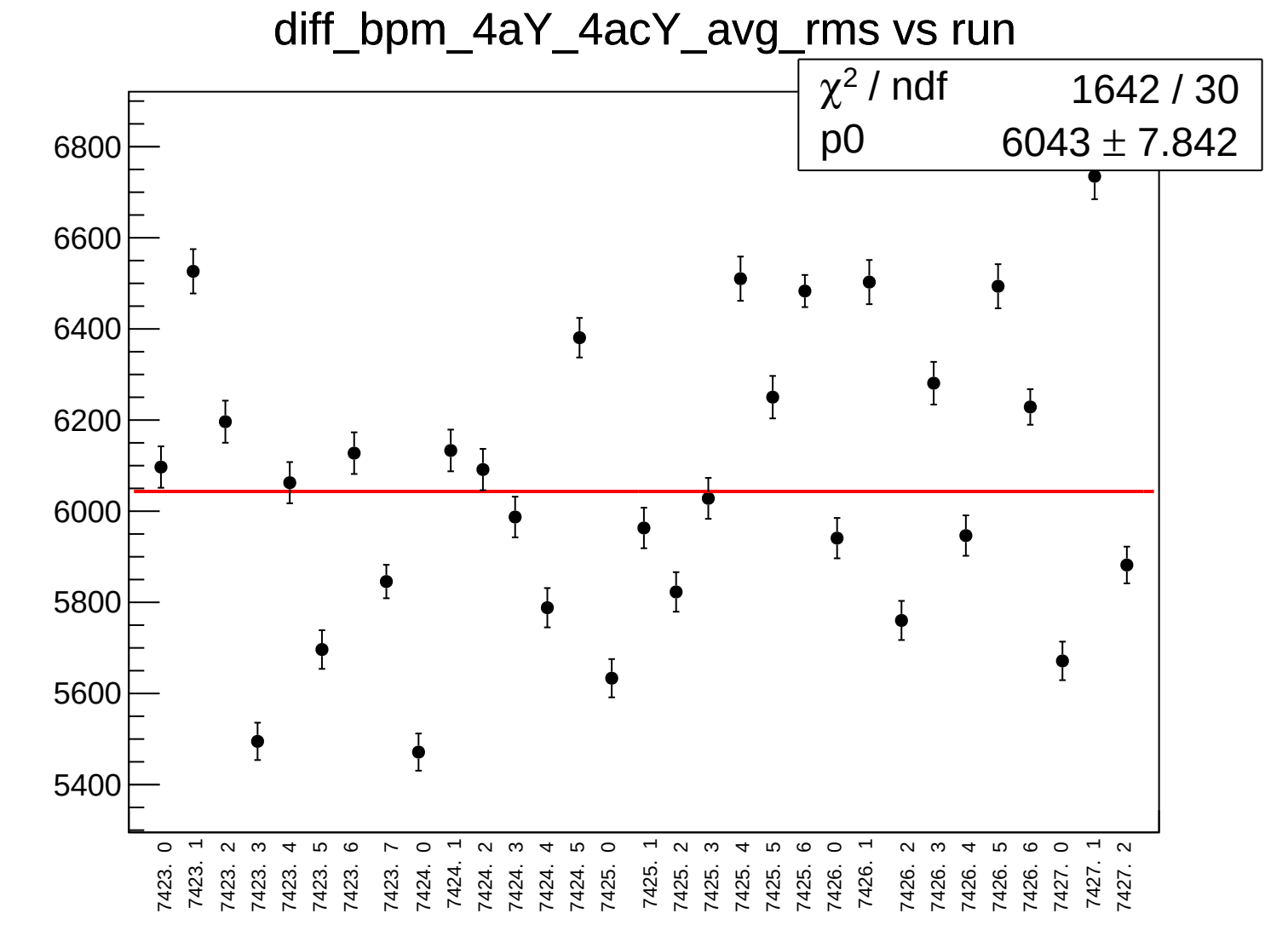

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 22.43 / 30
p0 −4.306 ± 4.568
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −263.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

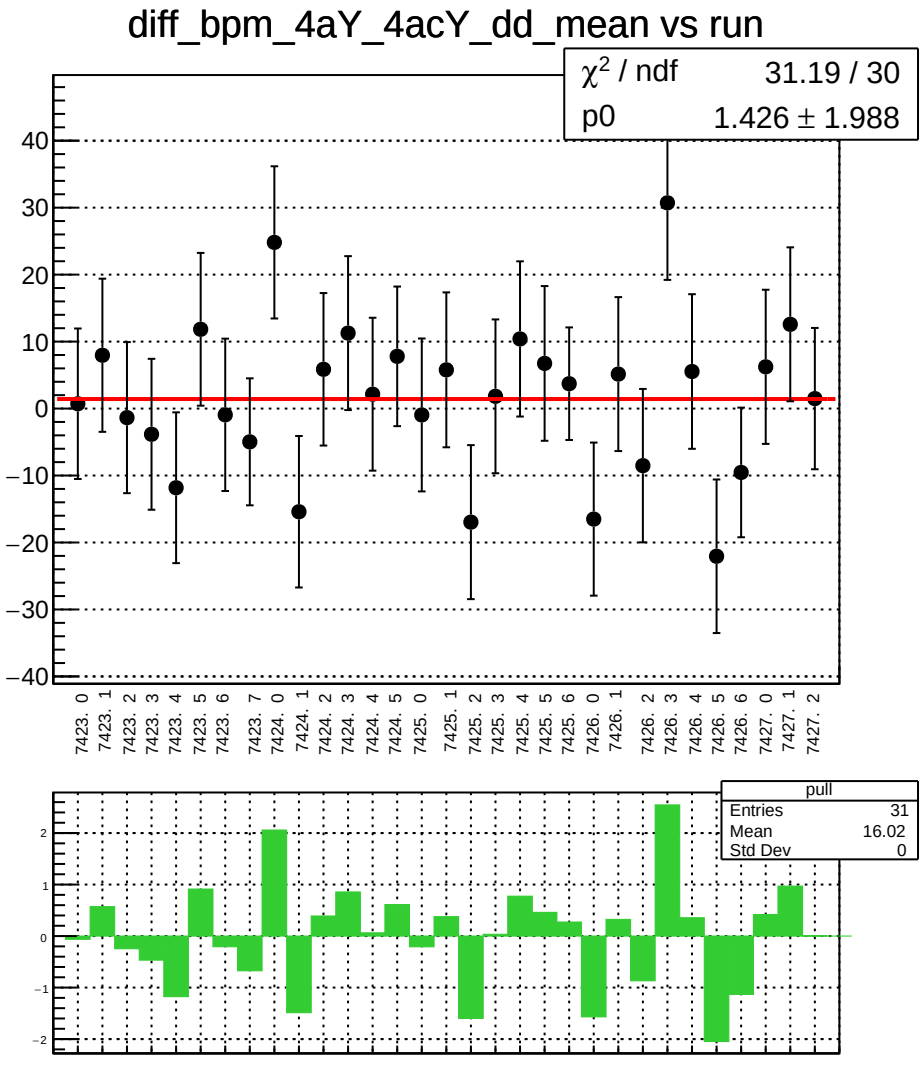

pull1D
Entries 31
Mean 0.005083
Std Dev 0.8505
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

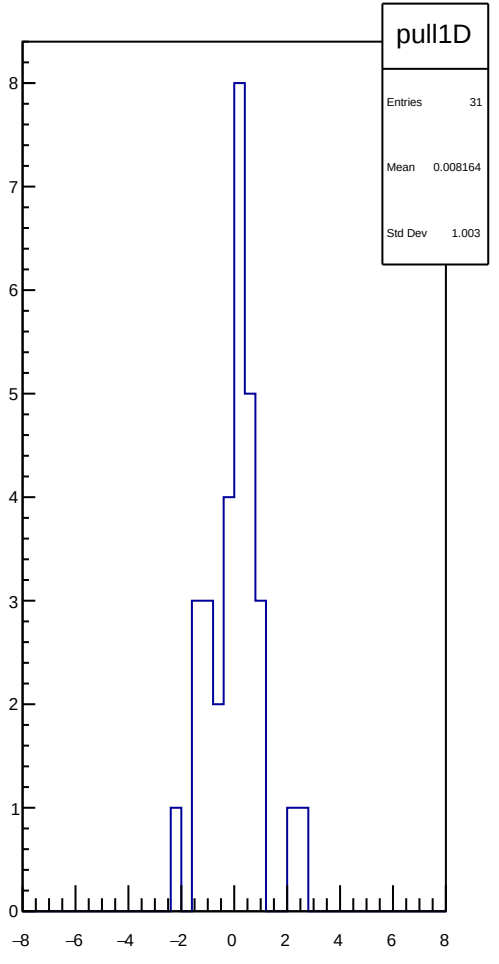

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 2.294e+05 / 30
p0 1954 ± 3.23
9000
8000
7000
6000
5000
4000
3000
2000
1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

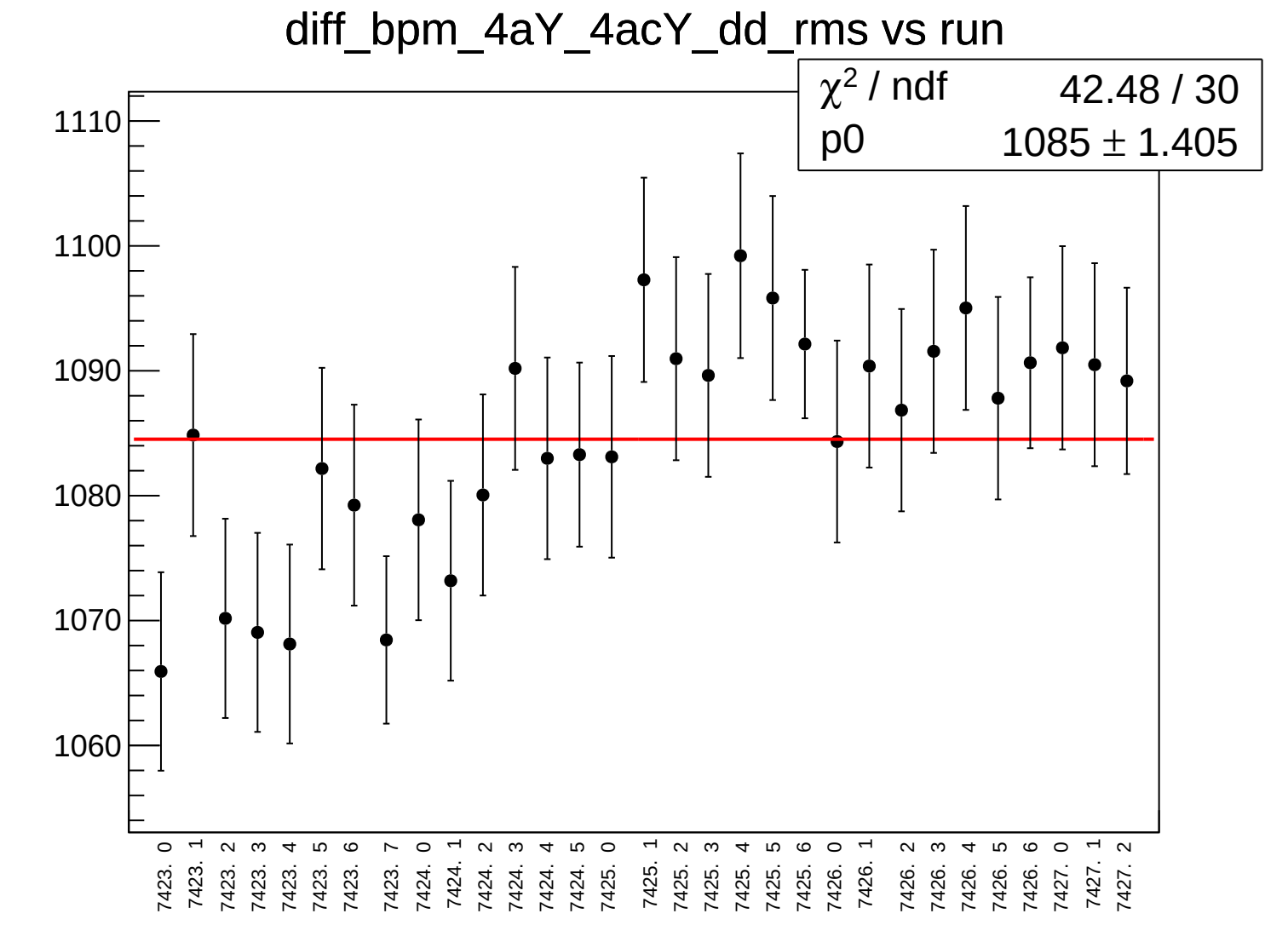

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 24.22 / 30
p0 −5.189 ± 11.09
200
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −12.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

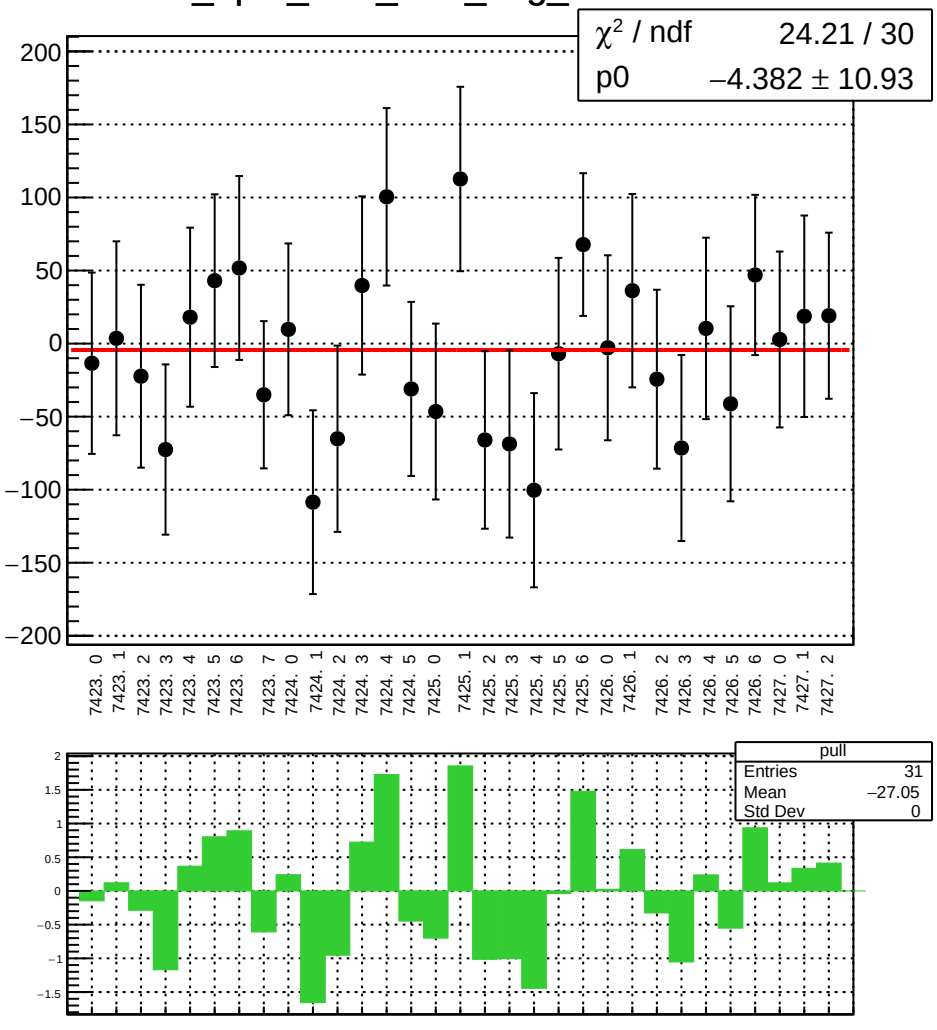

pull1D
Entries 31
Mean −0.01947
Std Dev 0.8836
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

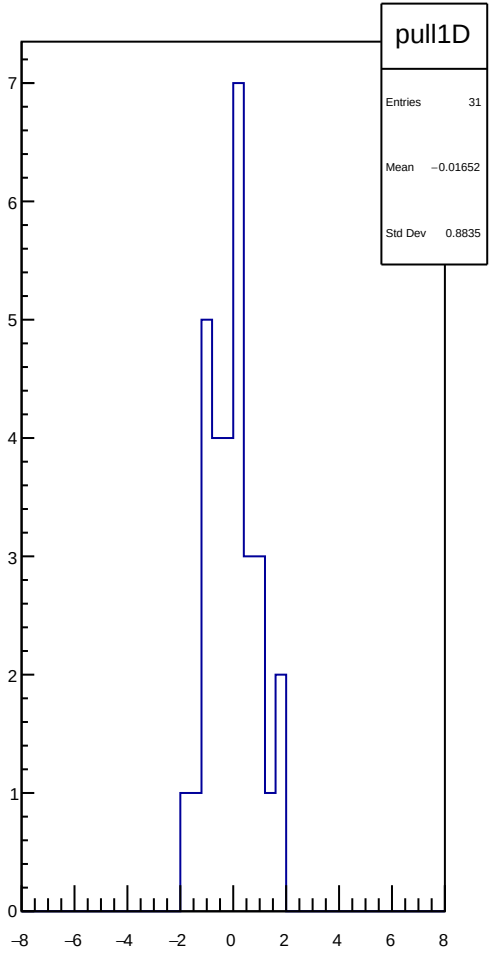

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1642 / 30
p0 6043 ± 7.842
6800
6600
6400
6200
6000
5800
5600
5400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

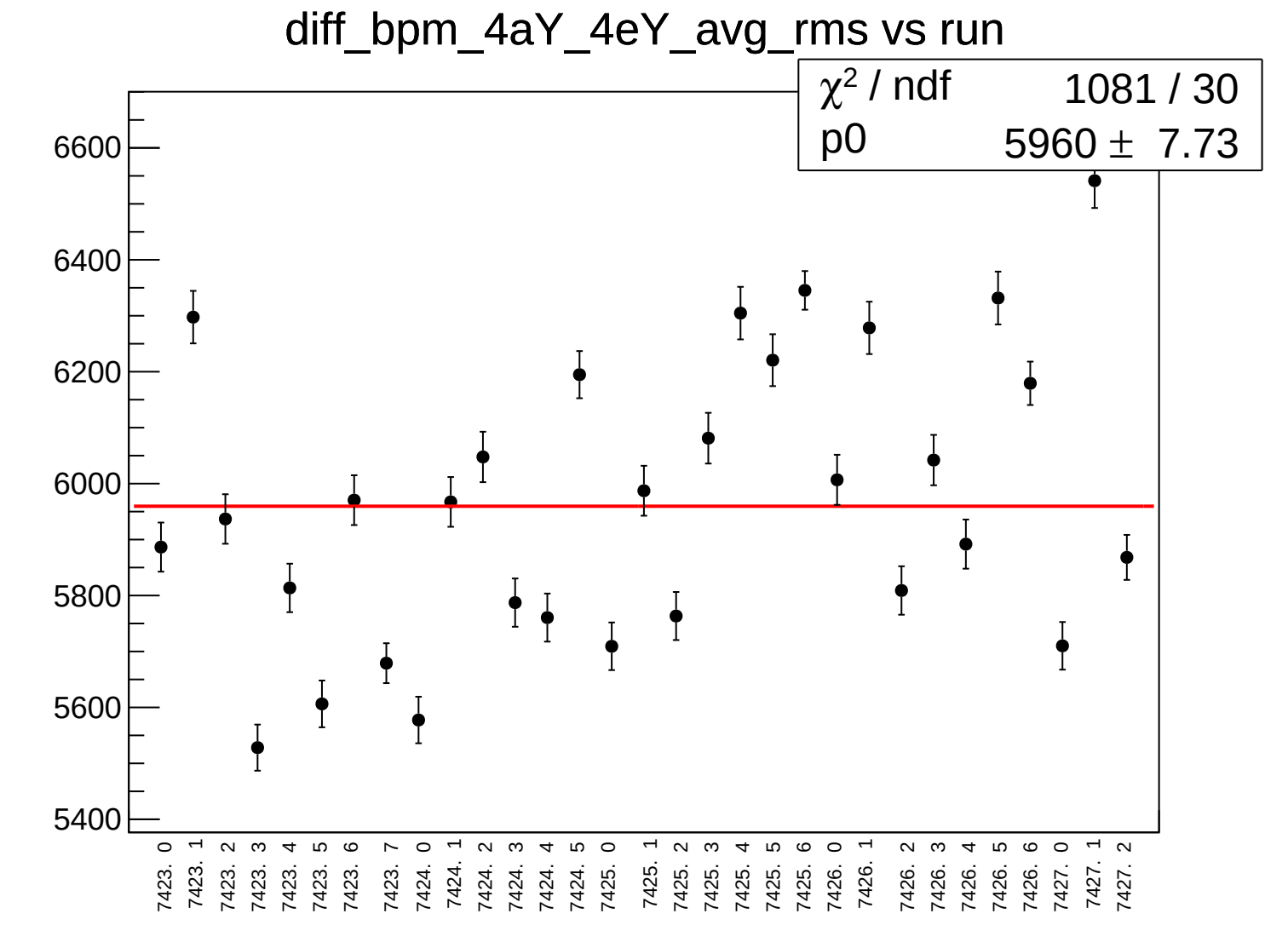

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 31.19 / 30
p0 1.426 ± 1.988
40
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.02
Std Dev 0
2
1
0
−1
−2

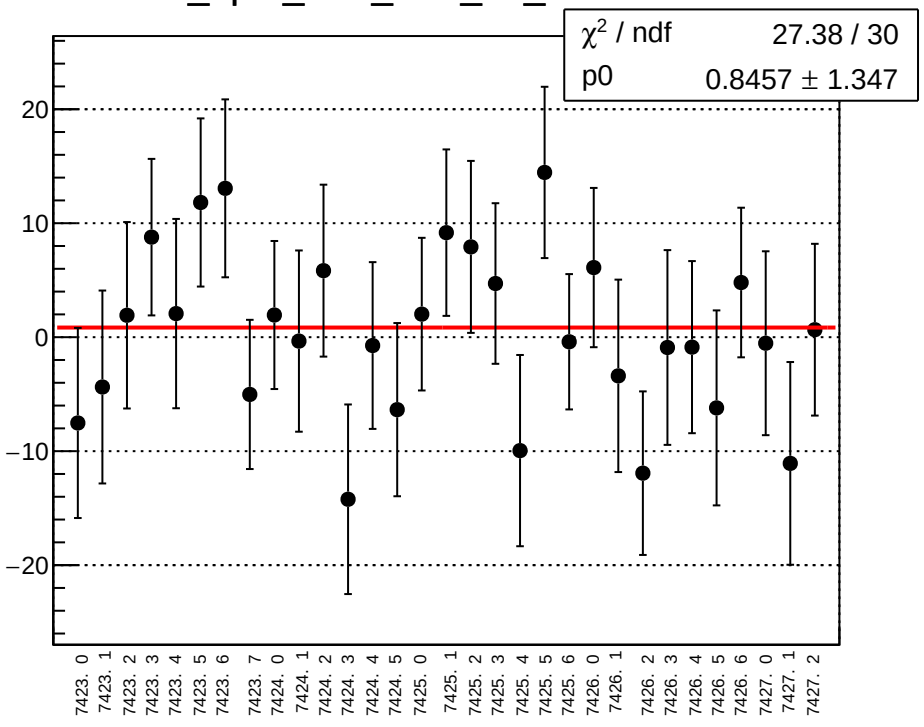

pull1D
Entries 31
Mean 0.008164
Std Dev 1.003
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

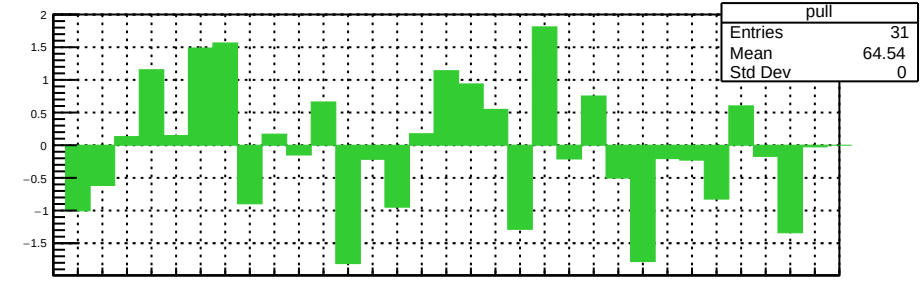

diff_bpm_4aY_4acY_dd_rms vs run
χ^2 / ndf 42.48 / 30
p0 1085 ± 1.405
1110
1100
1090
1080
1070
1060
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

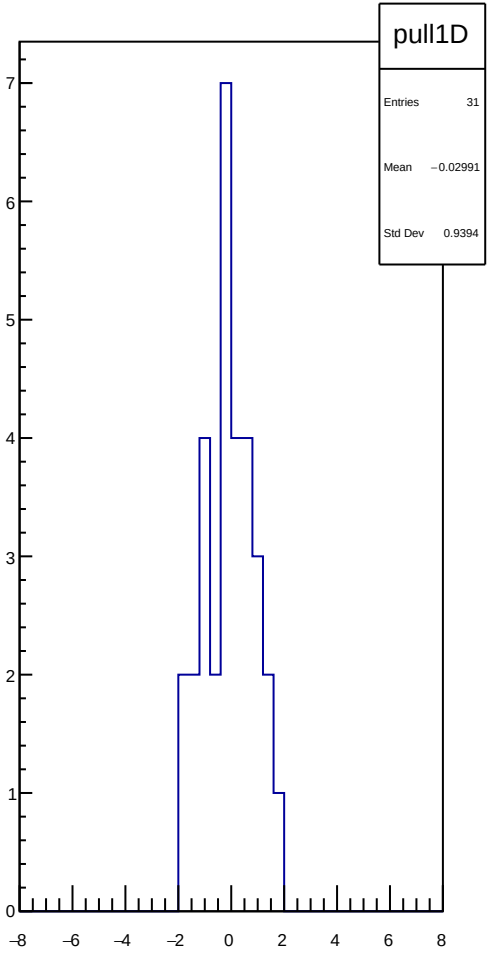

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 24.21 / 30
p0 −4.382 ± 10.93
200
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −27.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

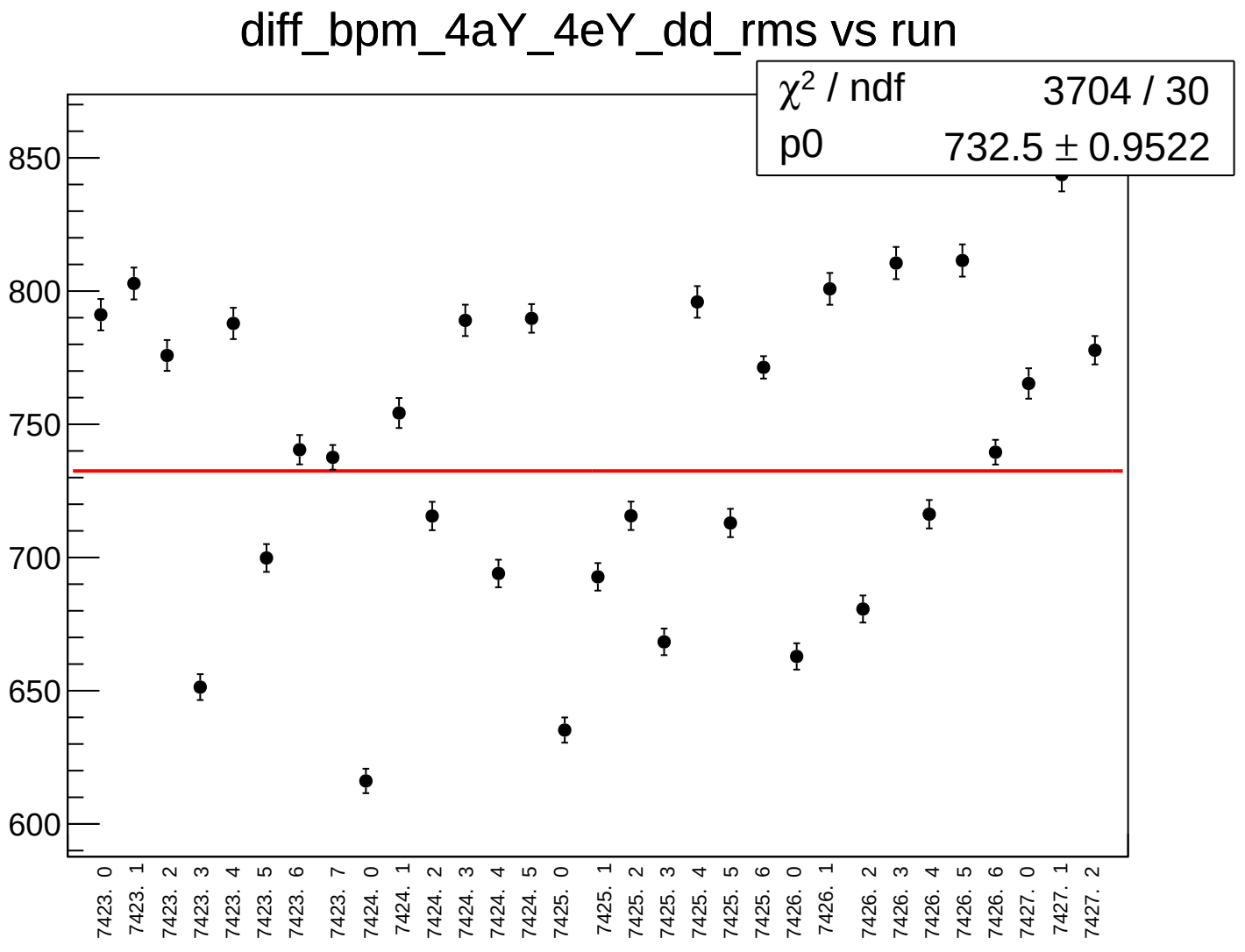

pull1D
Entries 31
Mean −0.01652
Std Dev 0.8835
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

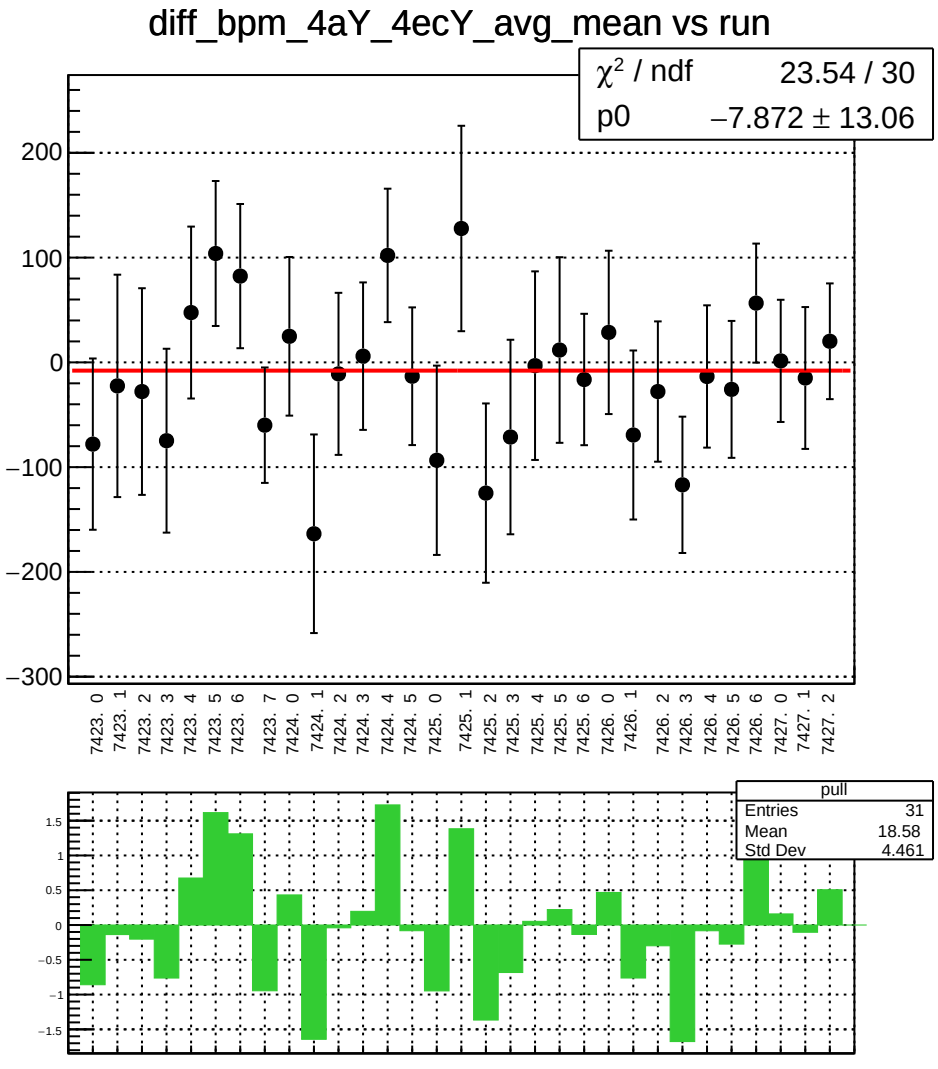

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1081 / 30
p0 5960 ± 7.73
6600
6400
6200
6000
5800
5600
5400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

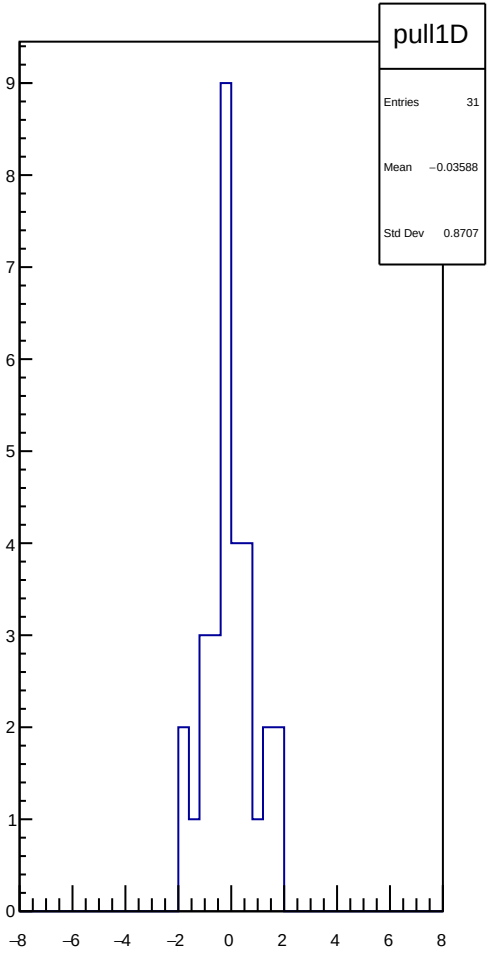

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 27.38 / 30
p0 0.8457 ± 1.347
20
10
0
−10
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

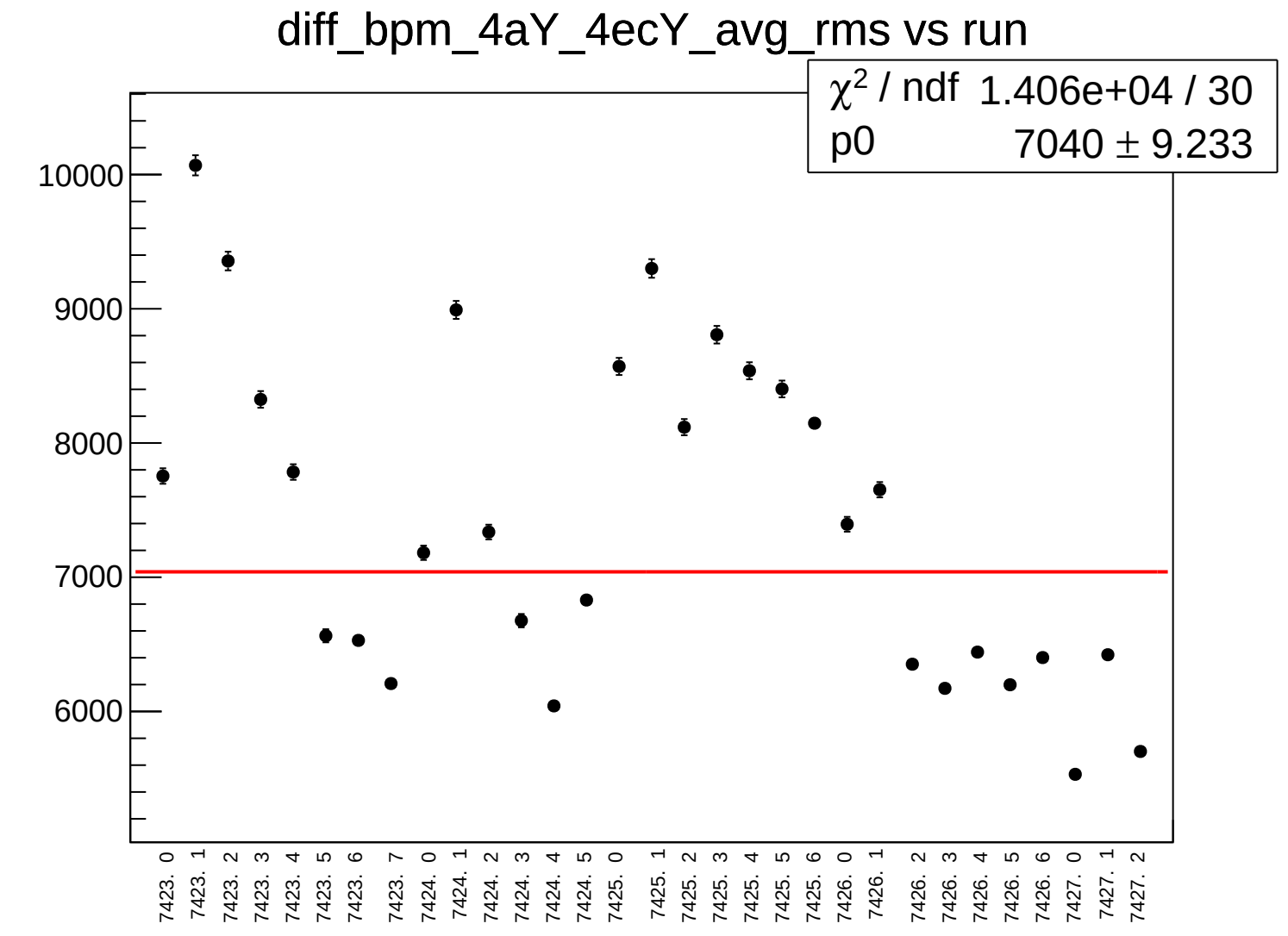

pull
Entries 31
Mean 64.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

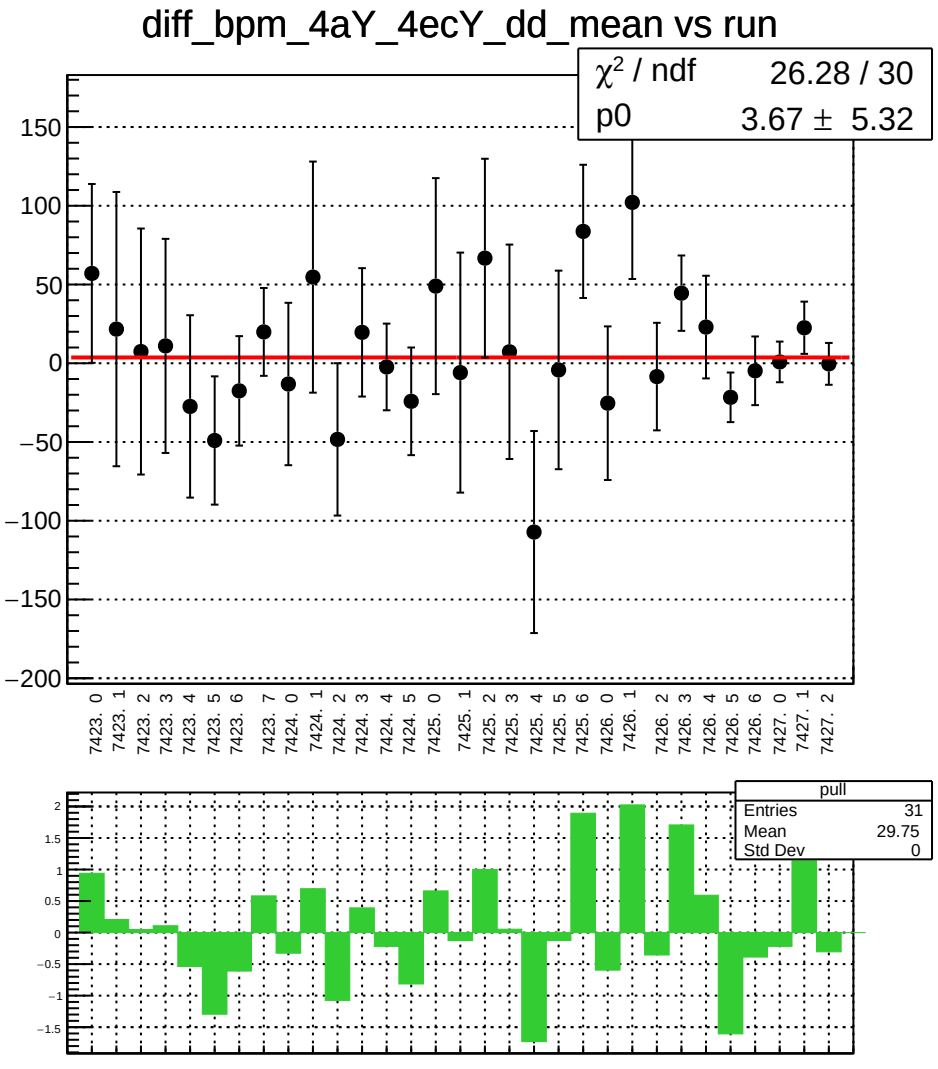

pull1D
Entries 31
Mean −0.02991
Std Dev 0.9394
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

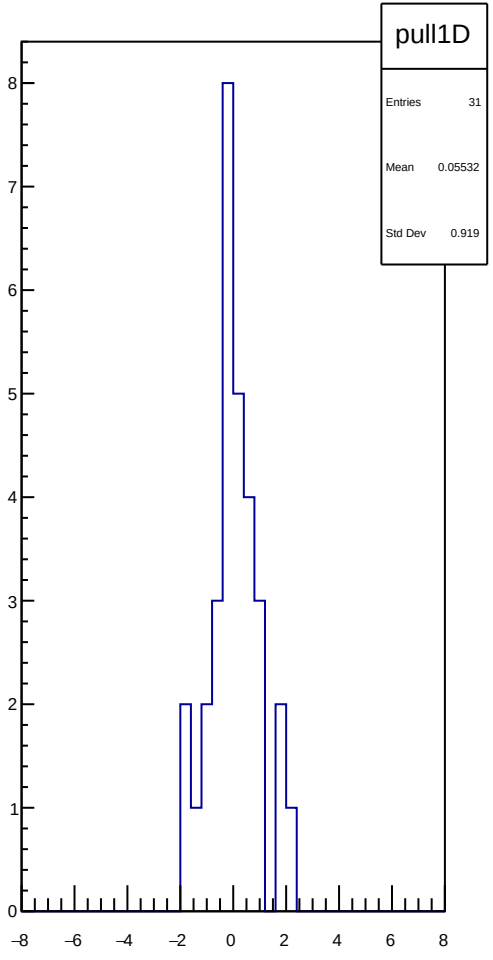

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 3704 / 30
p0 732.5 ± 0.9522
850
800
750
700
650
600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

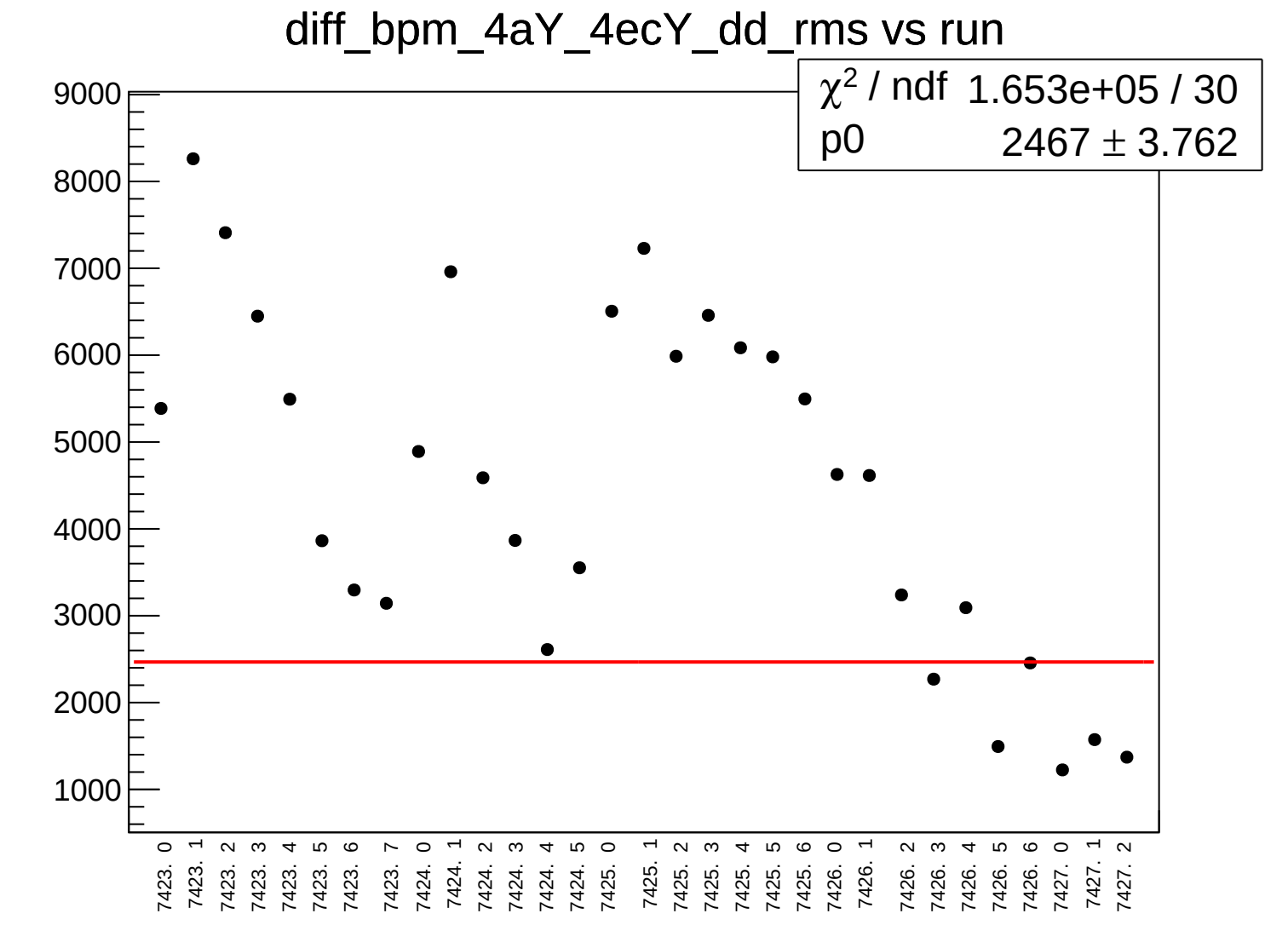

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 23.54 / 30
p0 −7.872 ± 13.06
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 18.58
Std Dev 4.461
1.5
1
0.5
0
−0.5
−1
−1.5

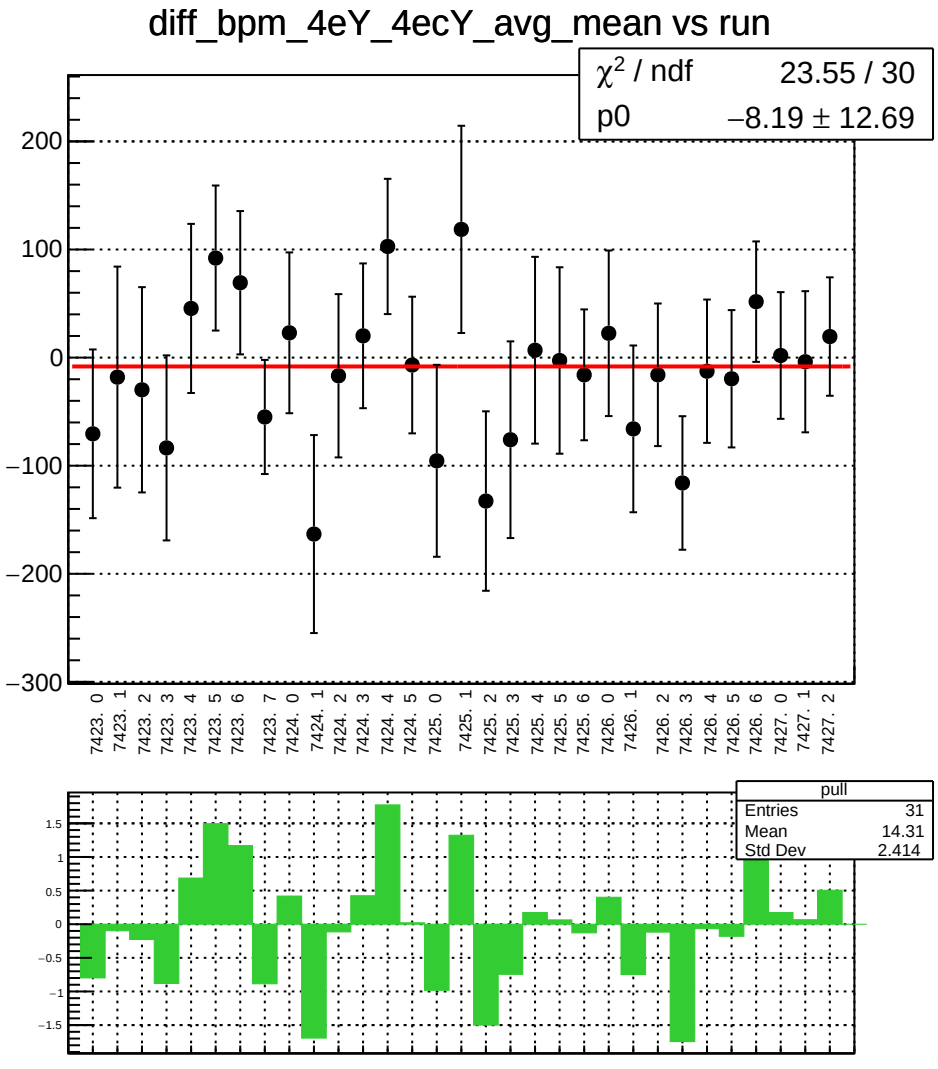

pull1D
Entries 31
Mean −0.03588
Std Dev 0.8707
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

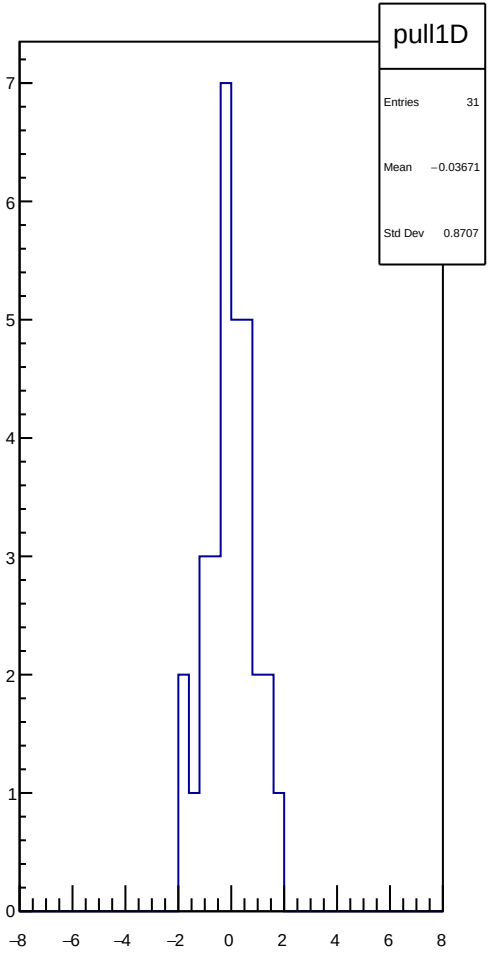

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.406e+04 / 30
p0 7040 ± 9.233
10000
9000
8000
7000
6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

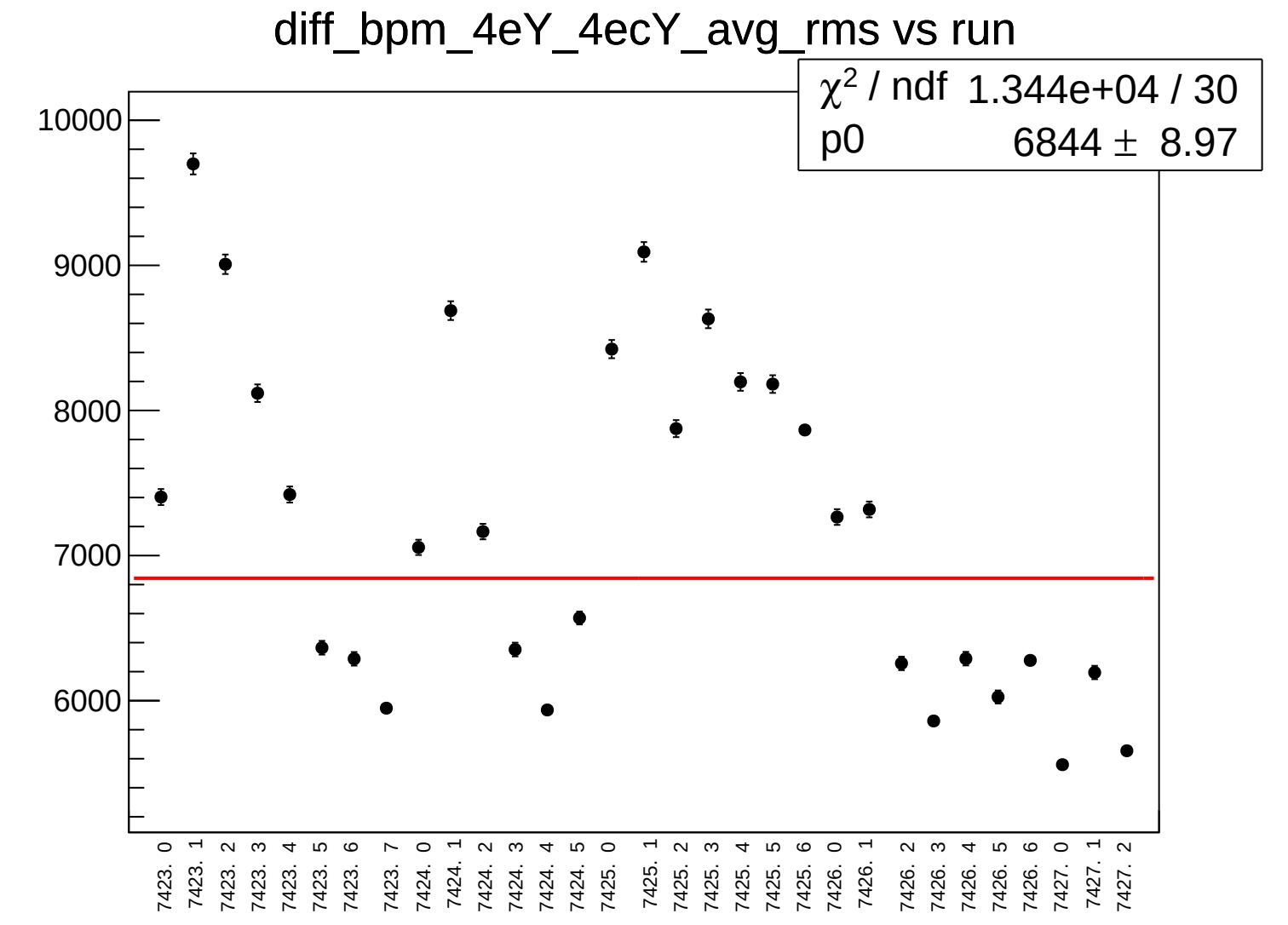

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 26.28 / 30
p0 3.67 ± 5.32
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 29.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

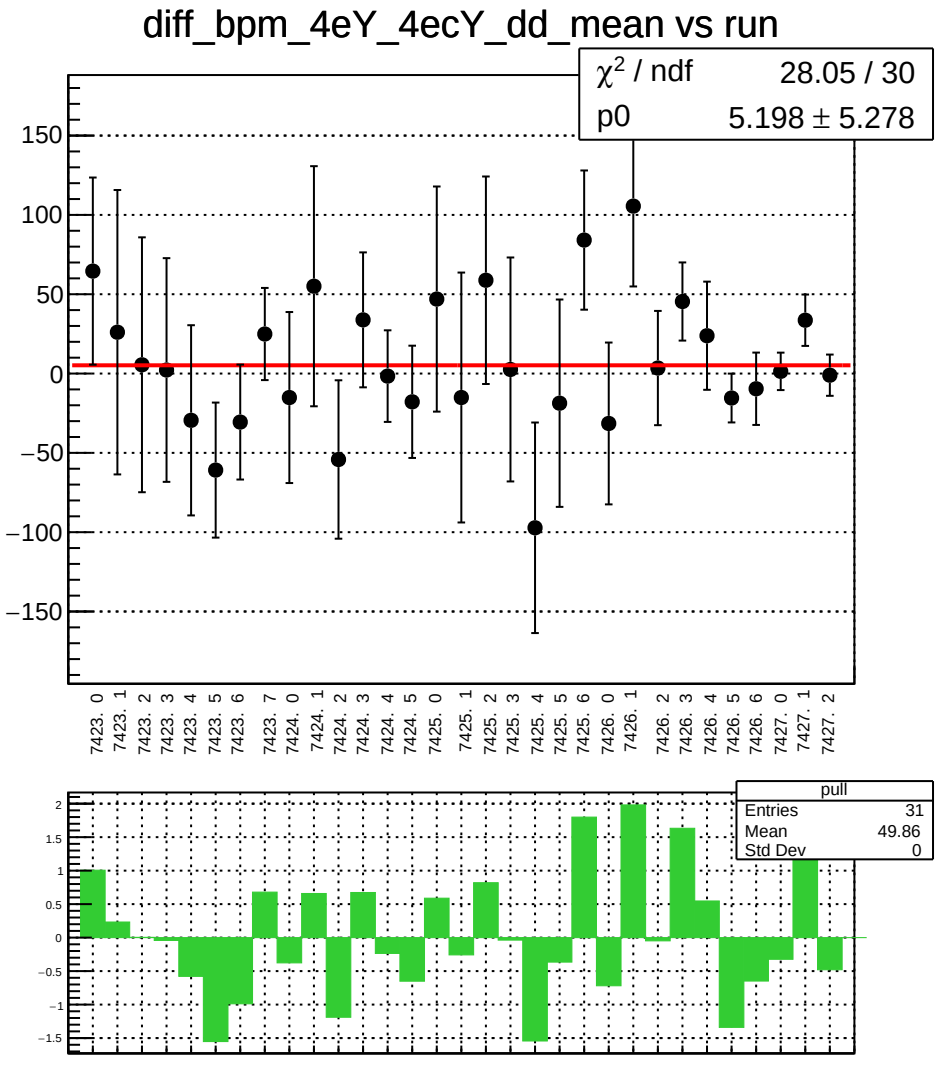

pull1D
Entries 31
Mean 0.05532
Std Dev 0.919
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

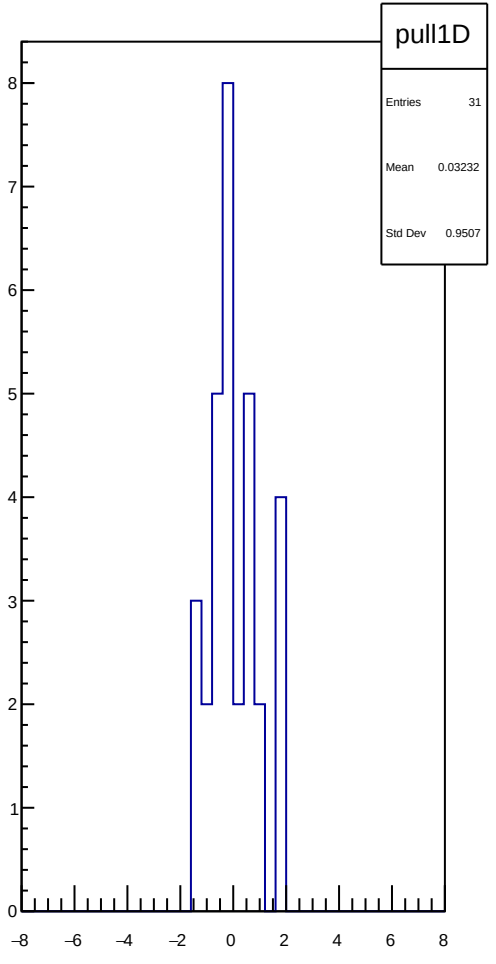

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1.653e+05 / 30
p0 2467 ± 3.762
9000
8000
7000
6000
5000
4000
3000
2000
1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

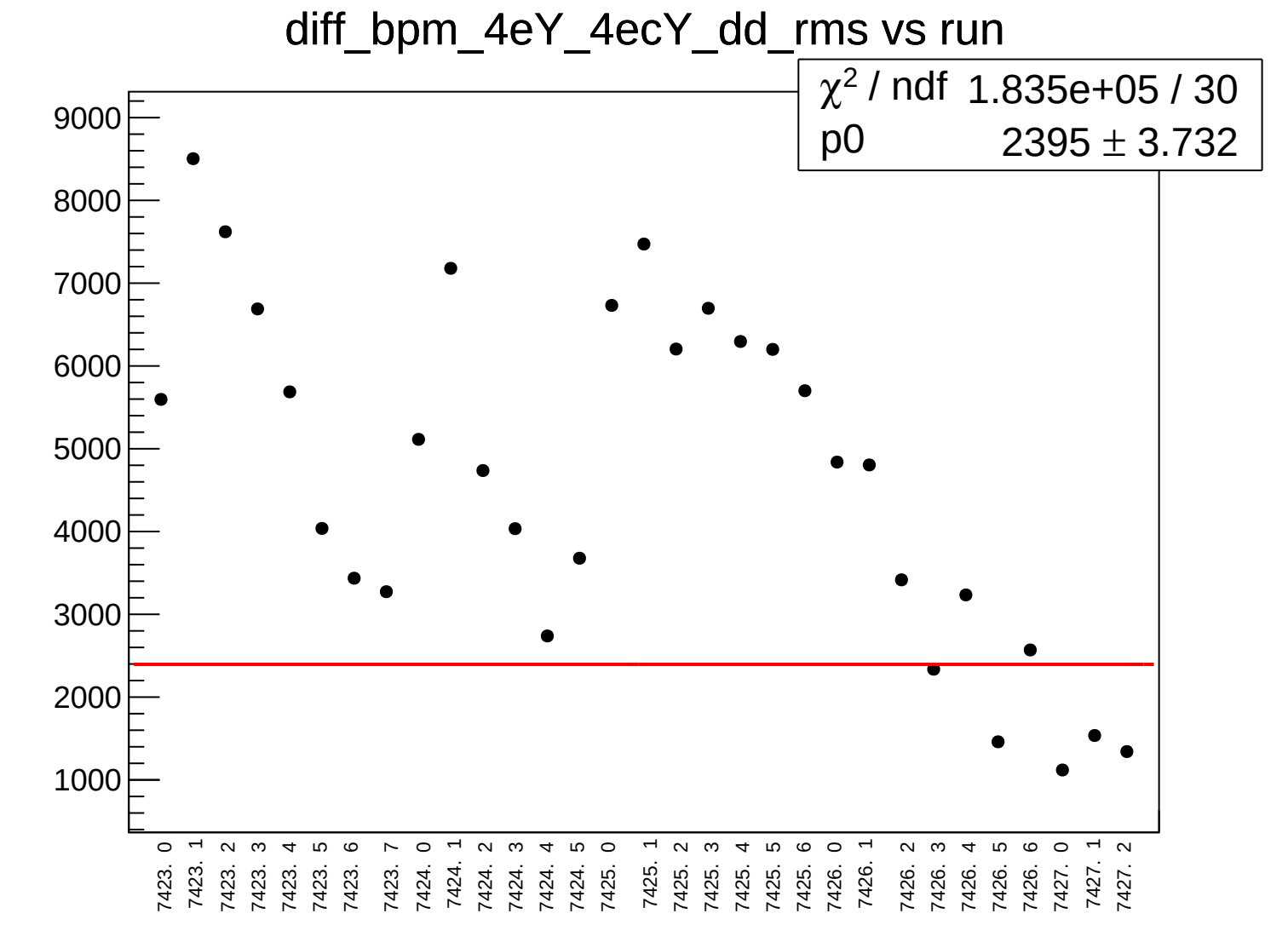

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 23.55 / 30
p0 −8.19 ± 12.69
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.31
Std Dev 2.414
1.5
1
0.5
0
−0.5
−1
−1.5

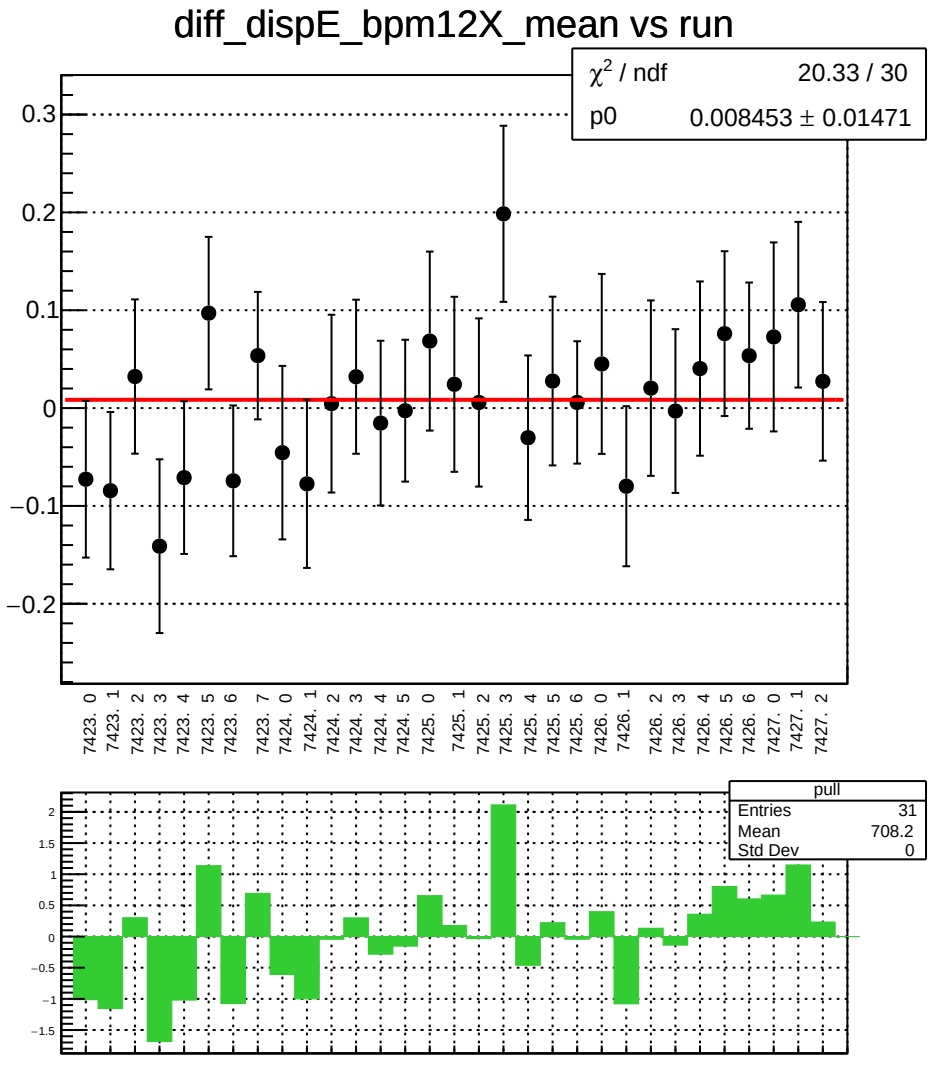

pull1D
Entries 31
Mean −0.03671
Std Dev 0.8707
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

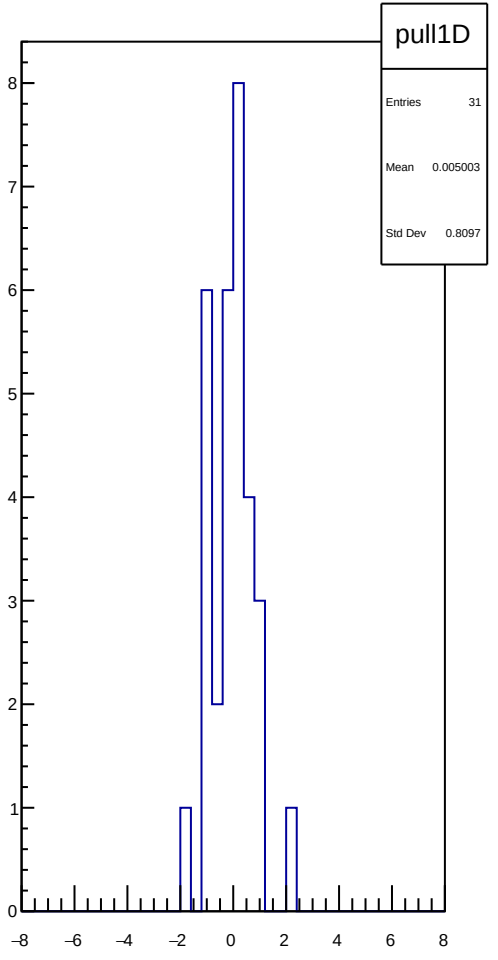

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.344e+04 / 30
p0 6844 ± 8.97
10000
9000
8000
7000
6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

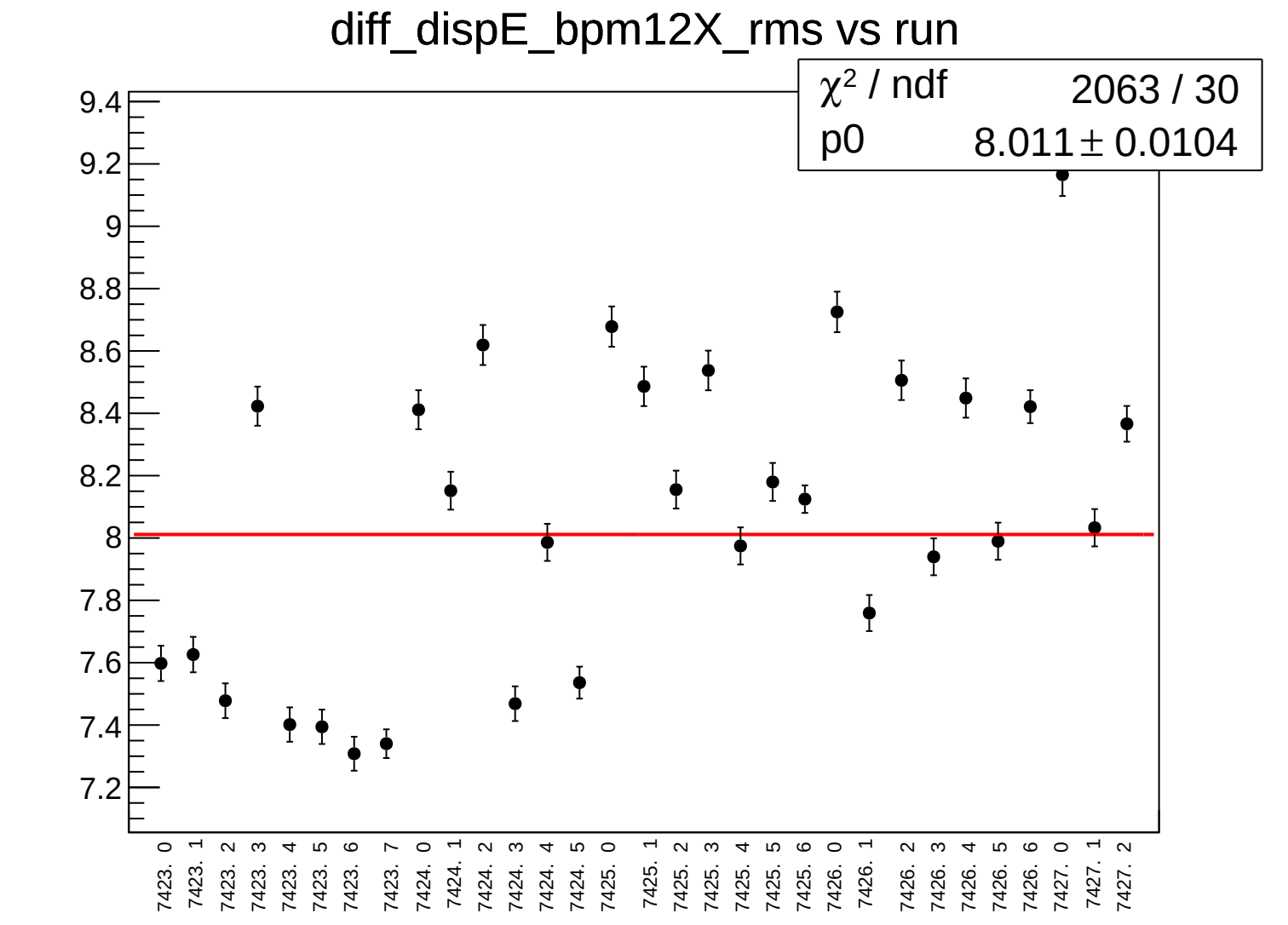

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 28.05 / 30
p0 5.198 ± 5.278
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

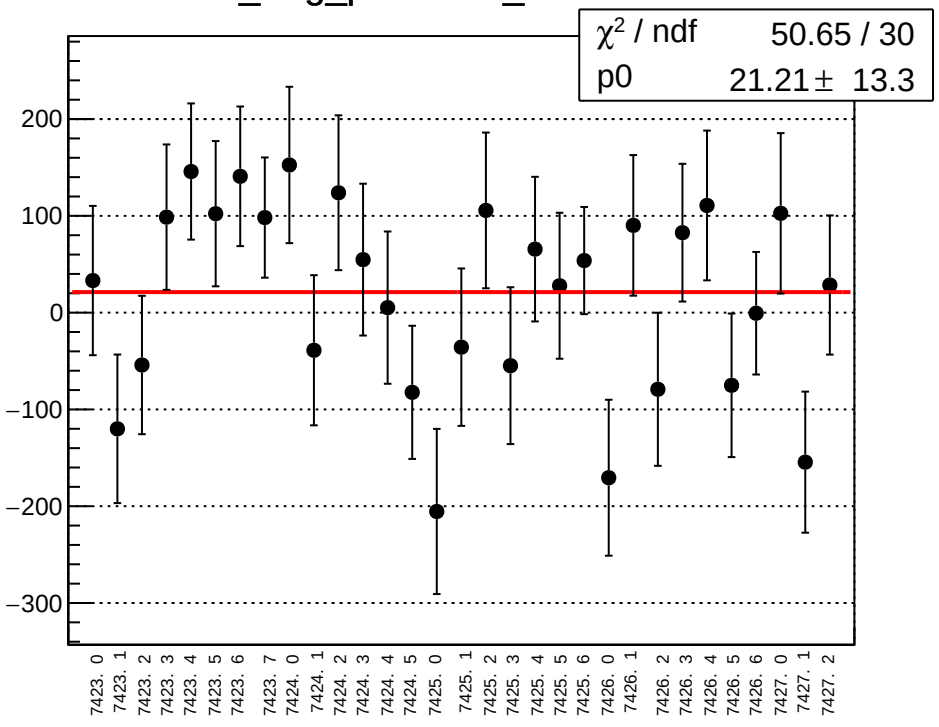

pull1D
Entries 31
Mean 0.03232
Std Dev 0.9507
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

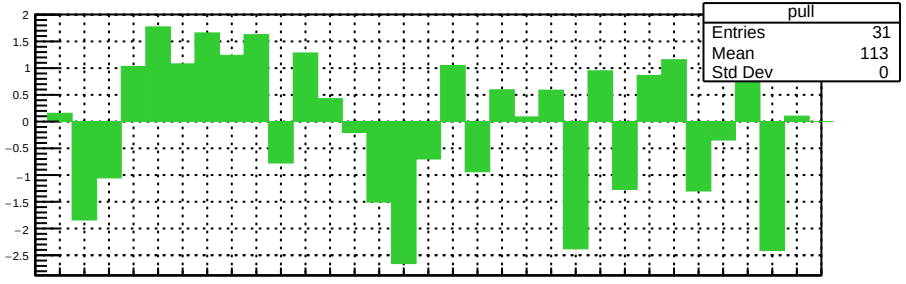

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 1.835e+05 / 30
p0 2395 ± 3.732
9000
8000
7000
6000
5000
4000
3000
2000
1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

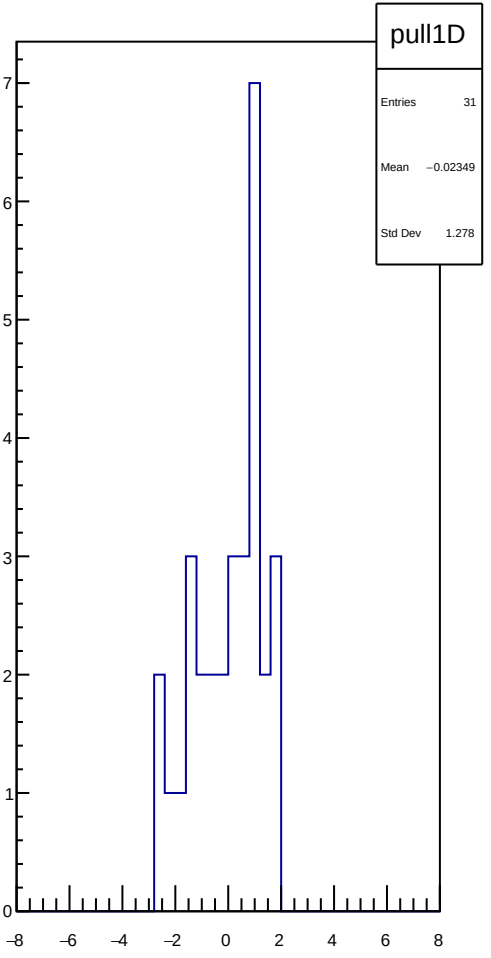

diff_dispE_bpm12X_mean vs run
χ² / ndf 20.33 / 30
p0 0.008453 ± 0.01471
0.3
0.2
0.1
0
−0.1
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 708.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

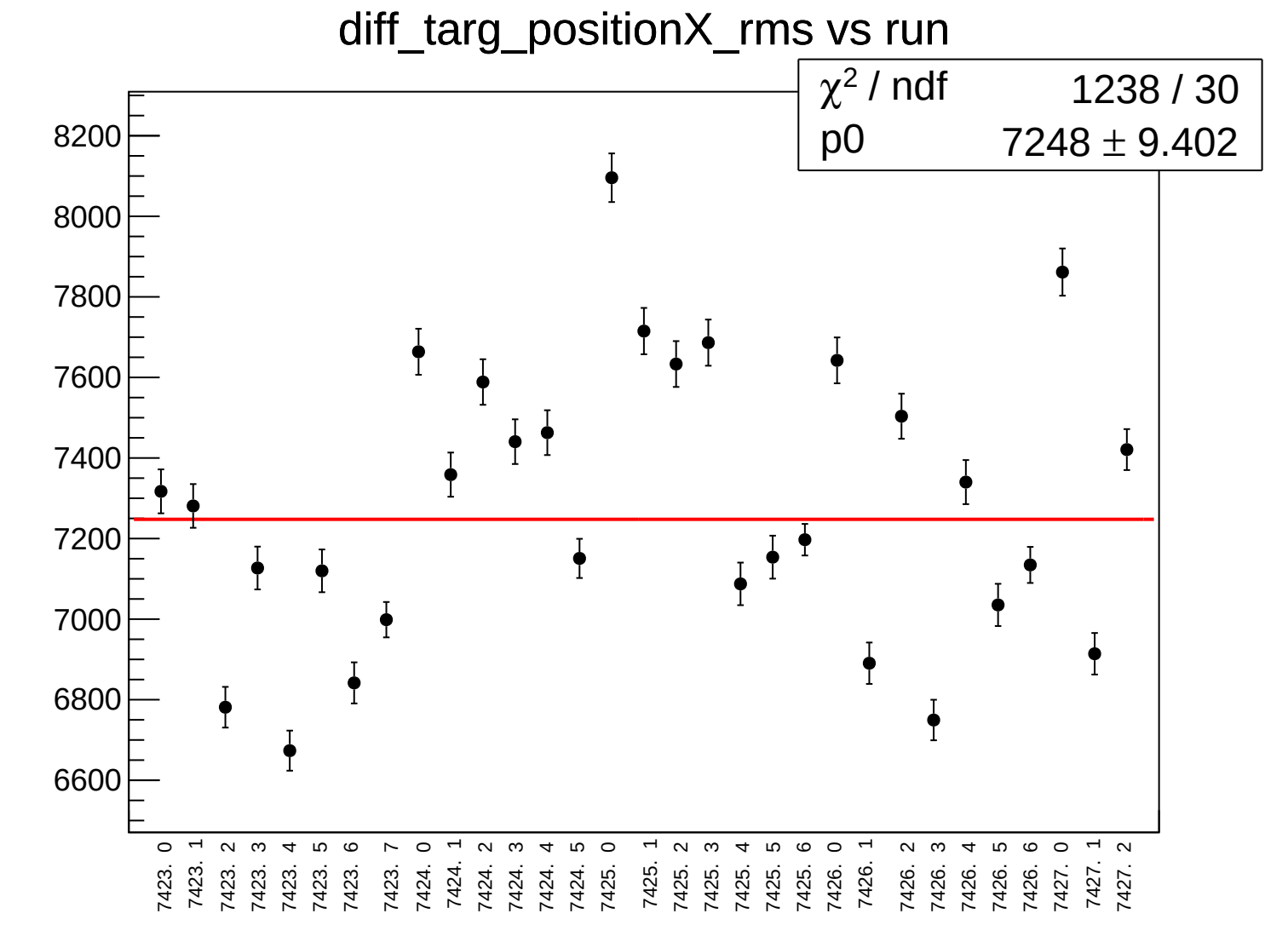

pull1D
Entries 31
Mean 0.005003
Std Dev 0.8097
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

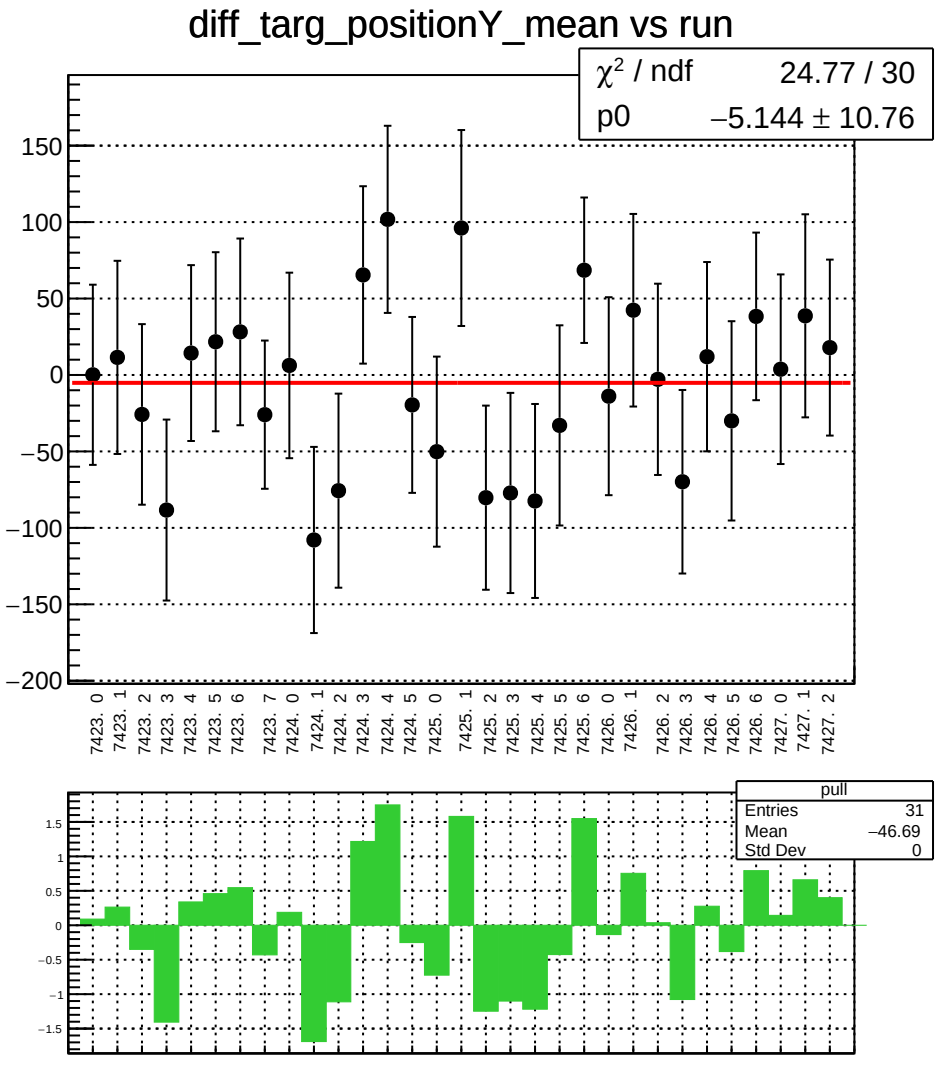

diff_dispE_bpm12X_rms vs run
χ² / ndf 2063 / 30
p0 8.011 ± 0.0104
9.4
9.2
9
8.8
8.6
8.4
8.2
8
7.8
7.6
7.4
7.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

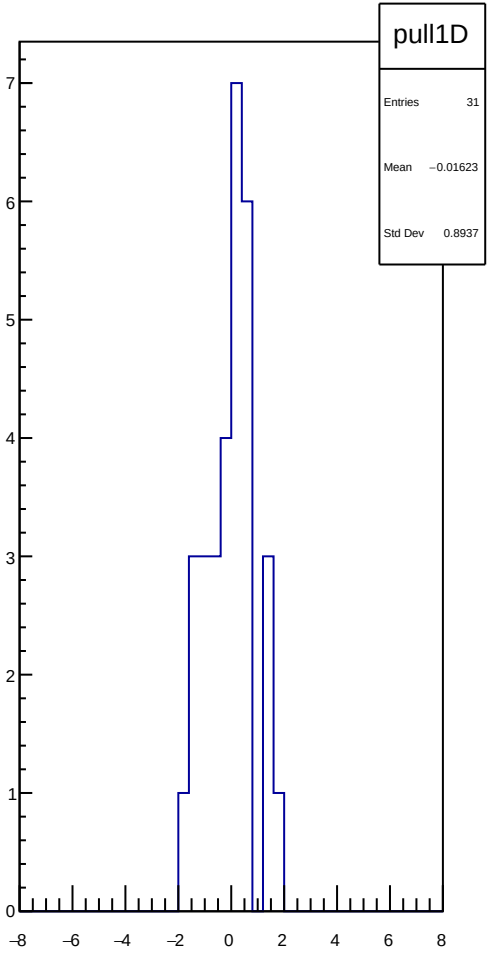

diff_targ_positionX_mean vs run
χ² / ndf 50.65 / 30
p0 21.21 ± 13.3
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

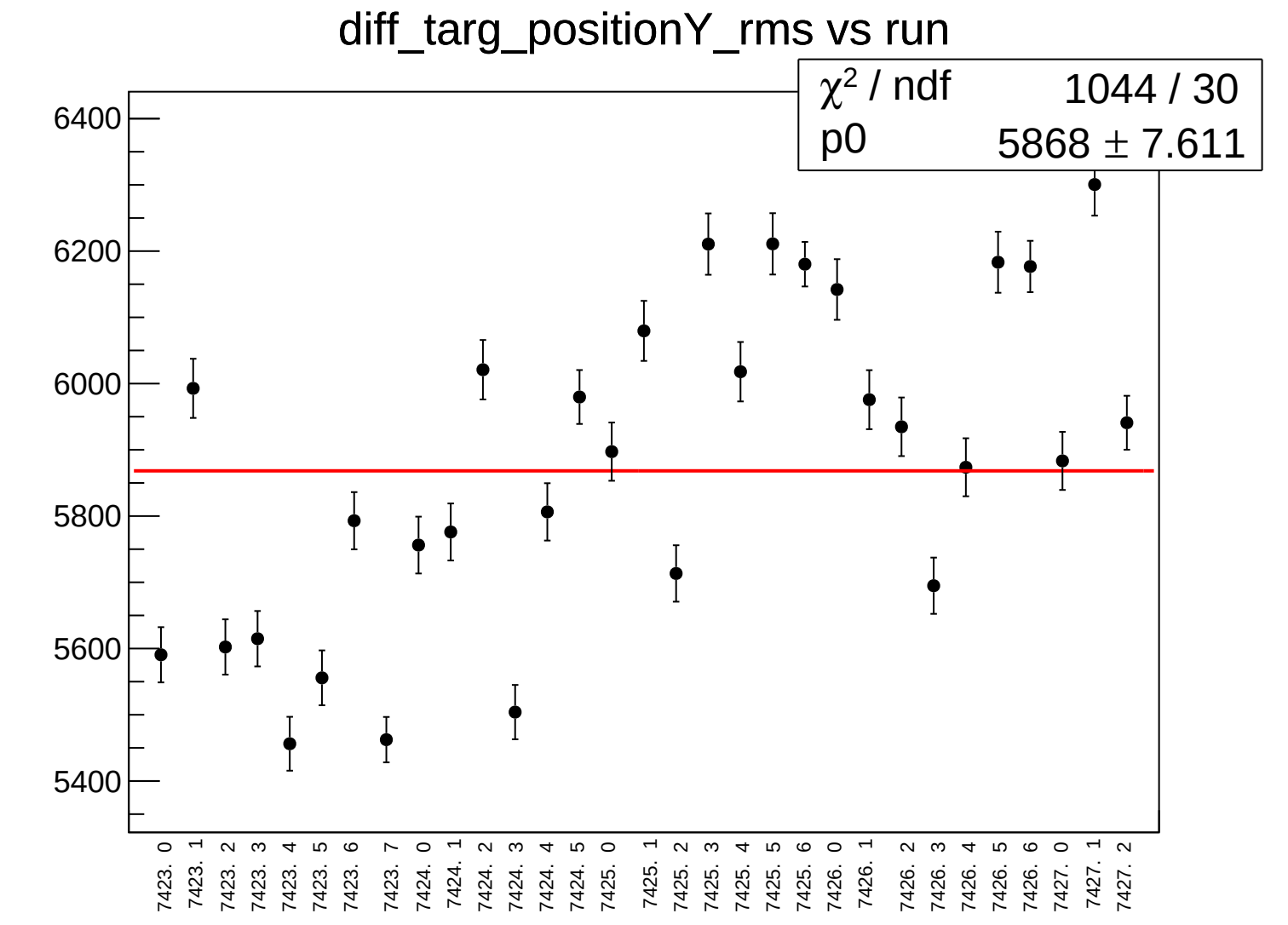

pull
Entries 31
Mean 113
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

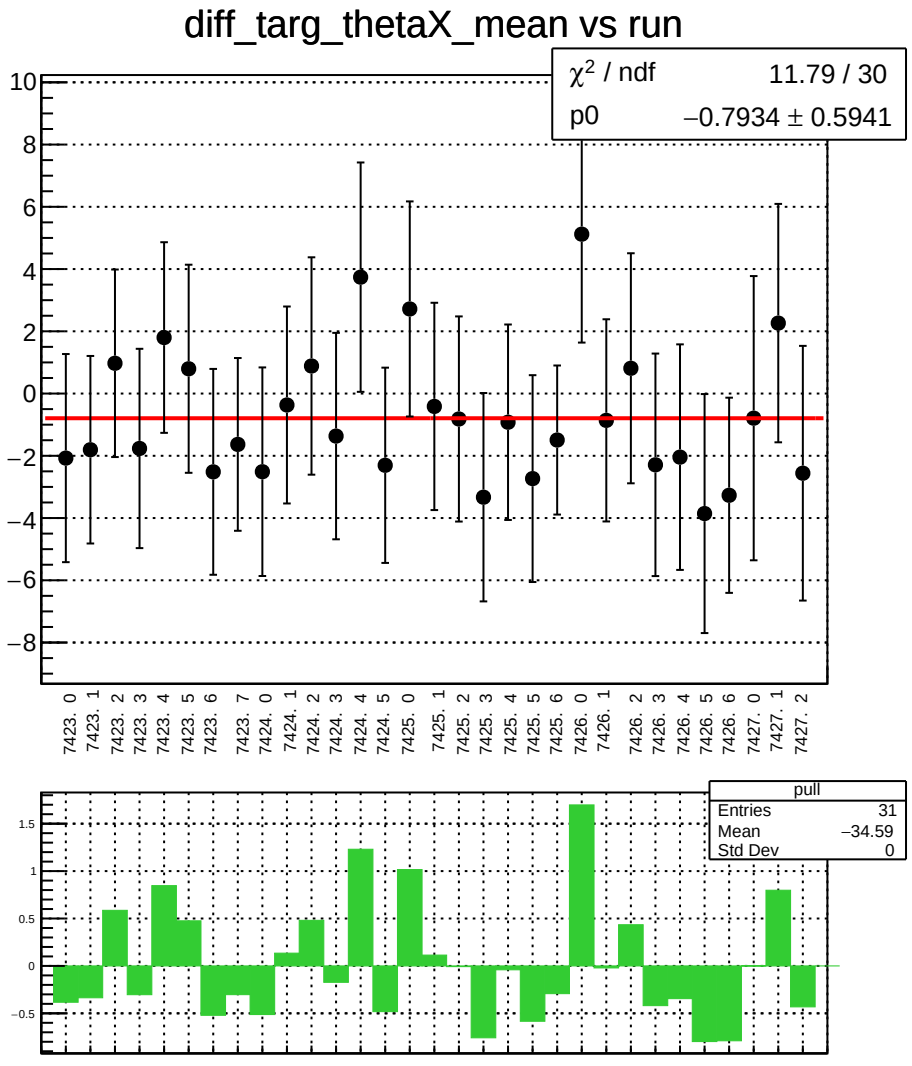

pull1D
Entries 31
Mean −0.02349
Std Dev 1.278
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

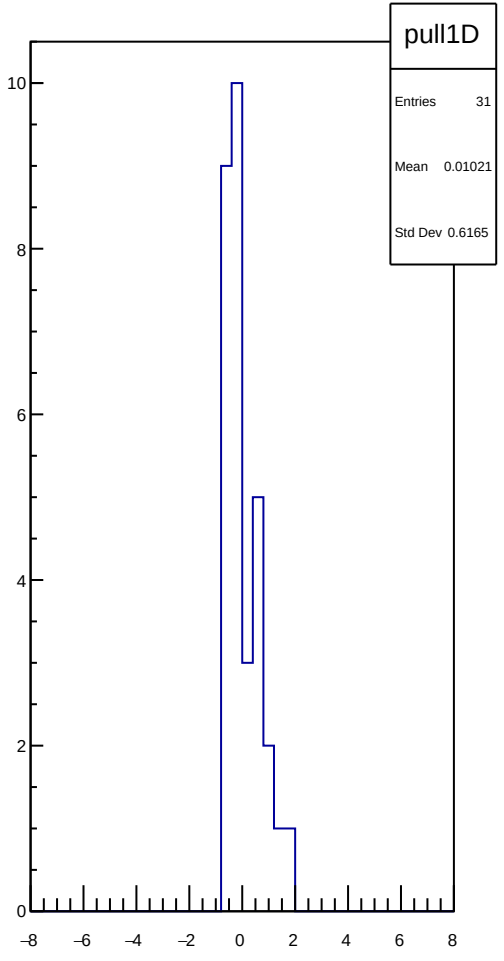

diff_targ_positionX_rms vs run
χ² / ndf 1238 / 30
p0 7248 ± 9.402
8200
8000
7800
7600
7400
7200
7000
6800
6600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

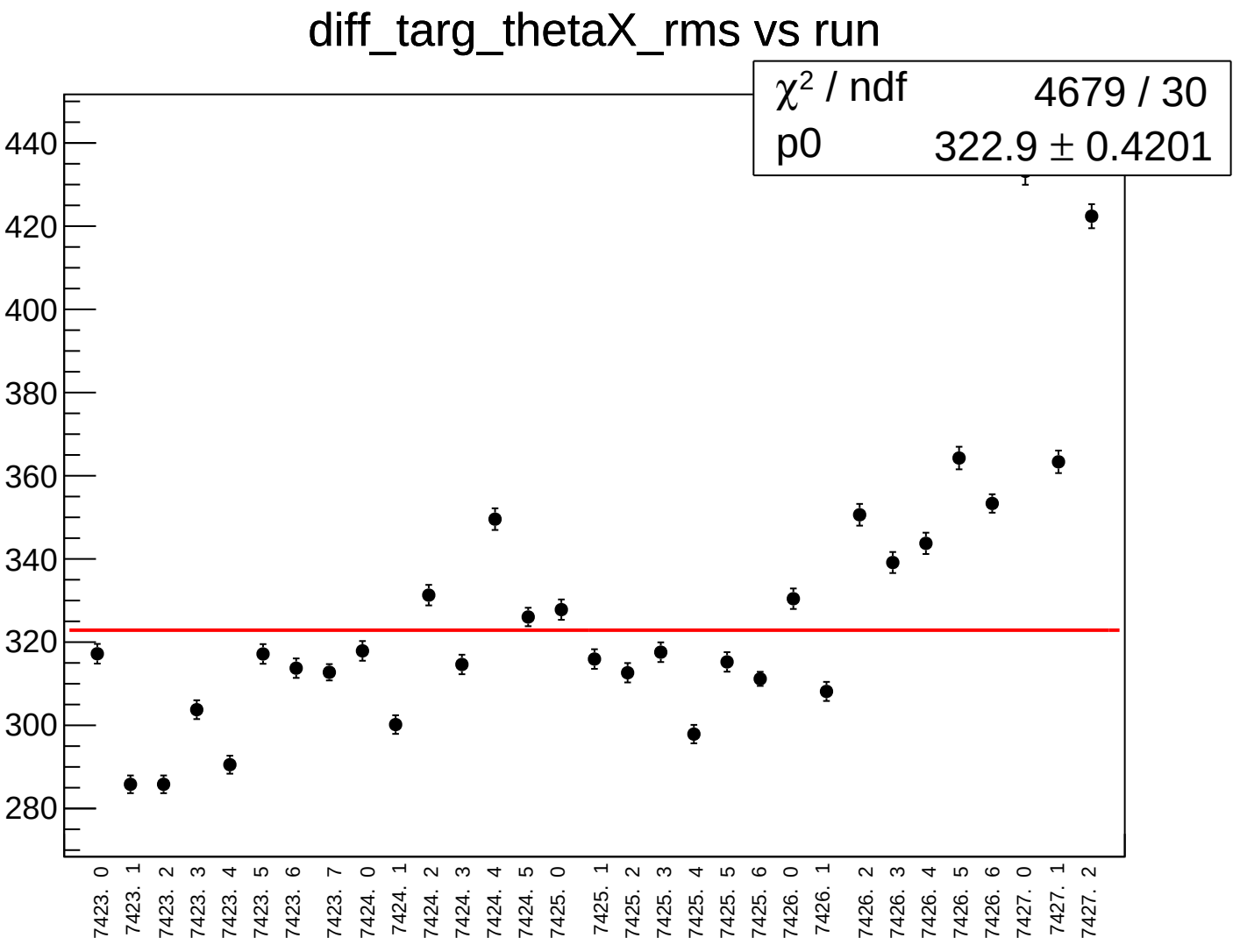

diff_targ_positionY_mean vs run
χ² / ndf 24.77 / 30
p0 −5.144 ± 10.76
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −46.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

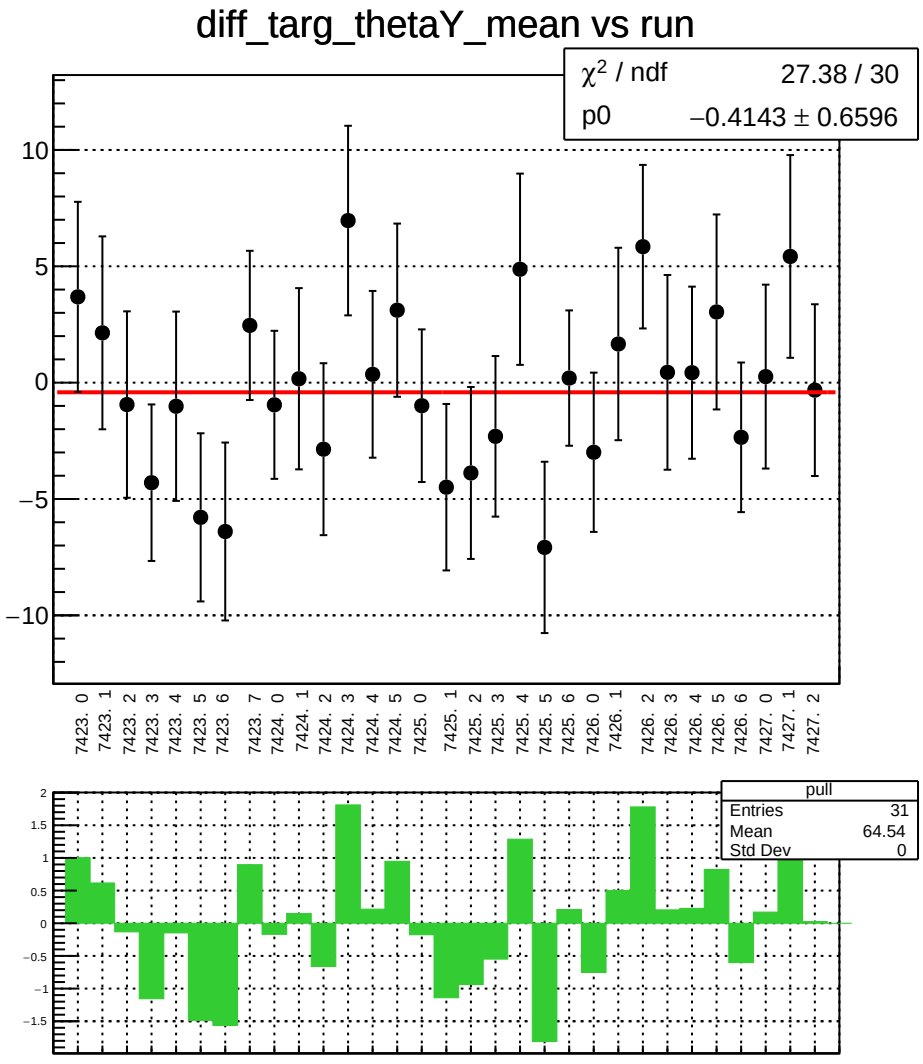

pull1D
Entries 31
Mean −0.01623
Std Dev 0.8937
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

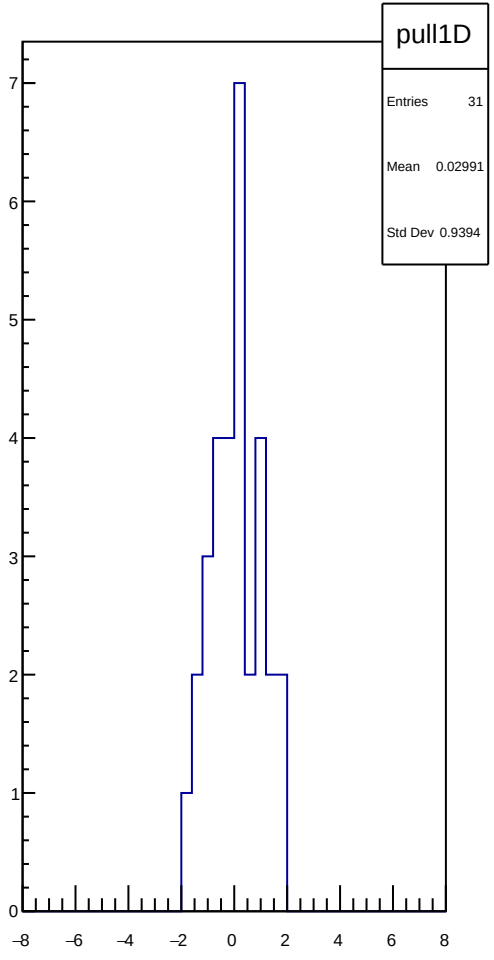

diff_targ_positionY_rms vs run
χ² / ndf 1044 / 30
p0 5868 ± 7.611
6400
6200
6000
5800
5600
5400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

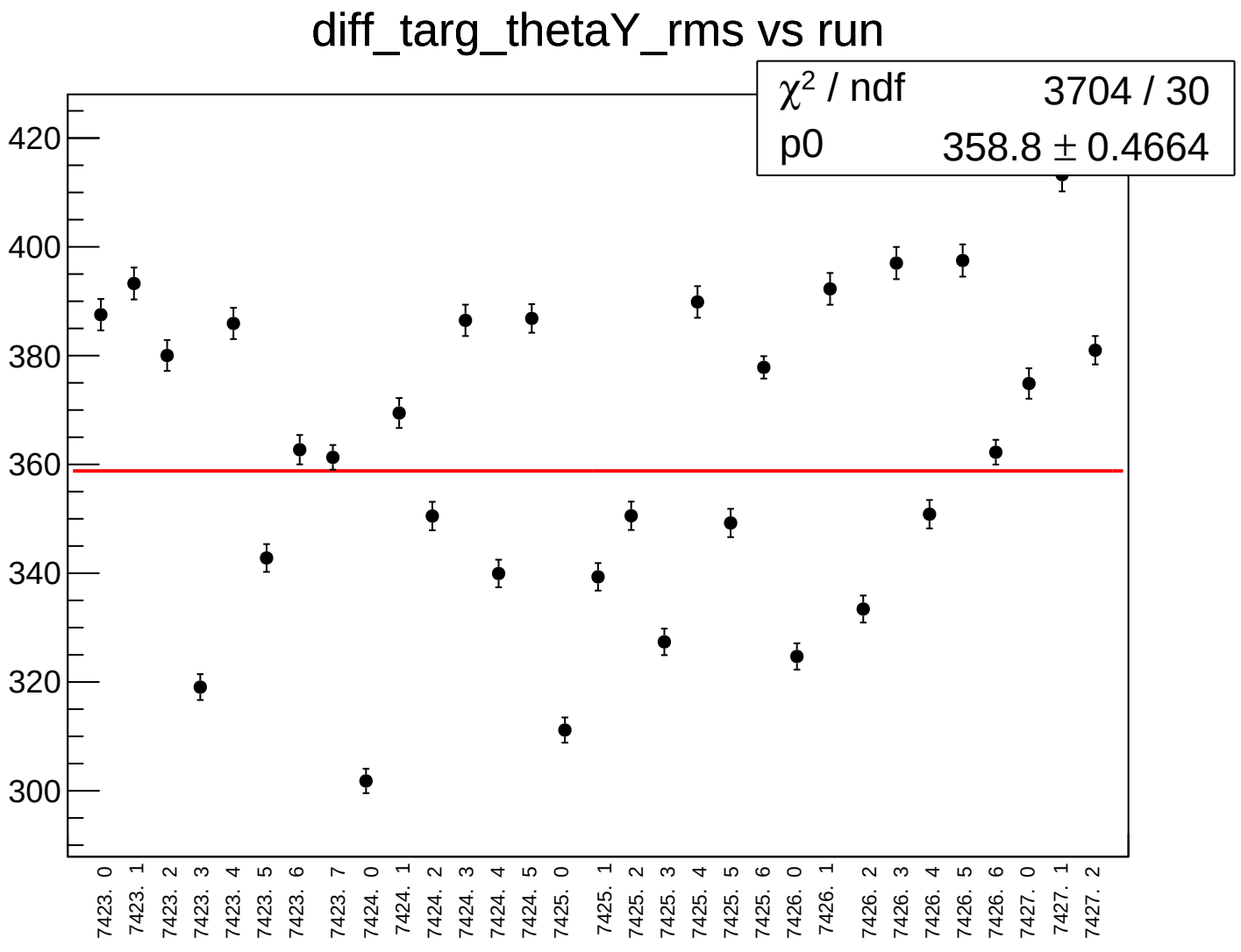

diff_targ_thetaX_mean vs run
χ² / ndf 11.79 / 30
p0 −0.7934 ± 0.5941
10
8
6
4
2
0
−2
−4
−6
−8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −34.59
Std Dev 0
1.5
1
0.5
0
−0.5

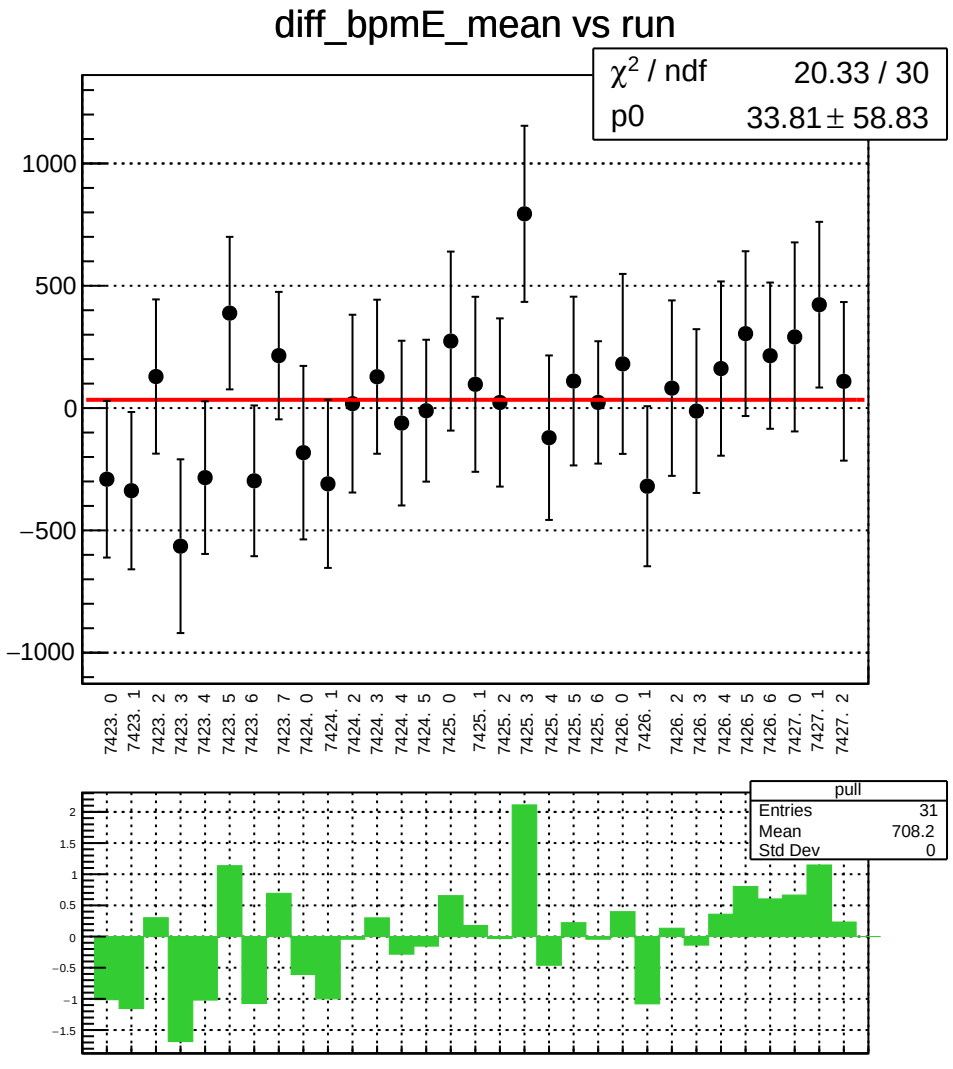

pull1D
Entries 31
Mean 0.01021
Std Dev 0.6165
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

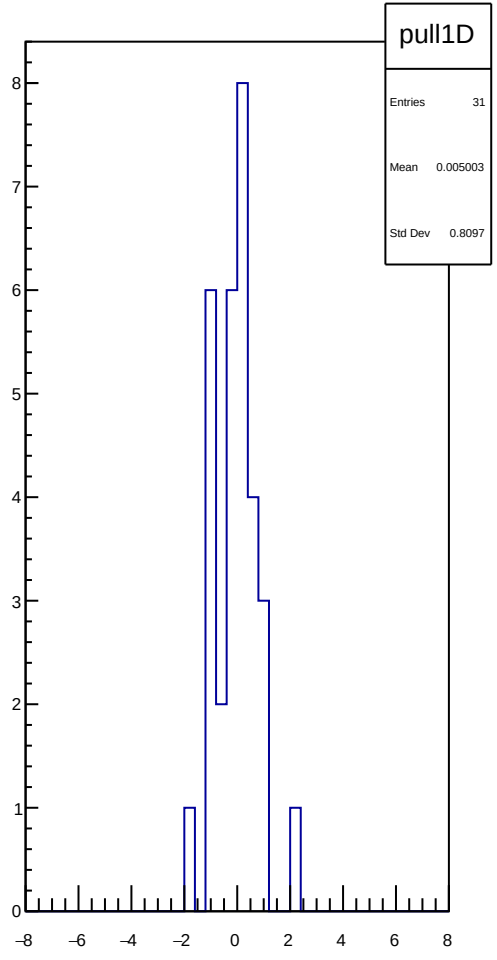

diff_targ_thetaX_rms vs run
χ² / ndf 4679 / 30
p0 322.9 ± 0.4201
440
420
400
380
360
340
320
300
280
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

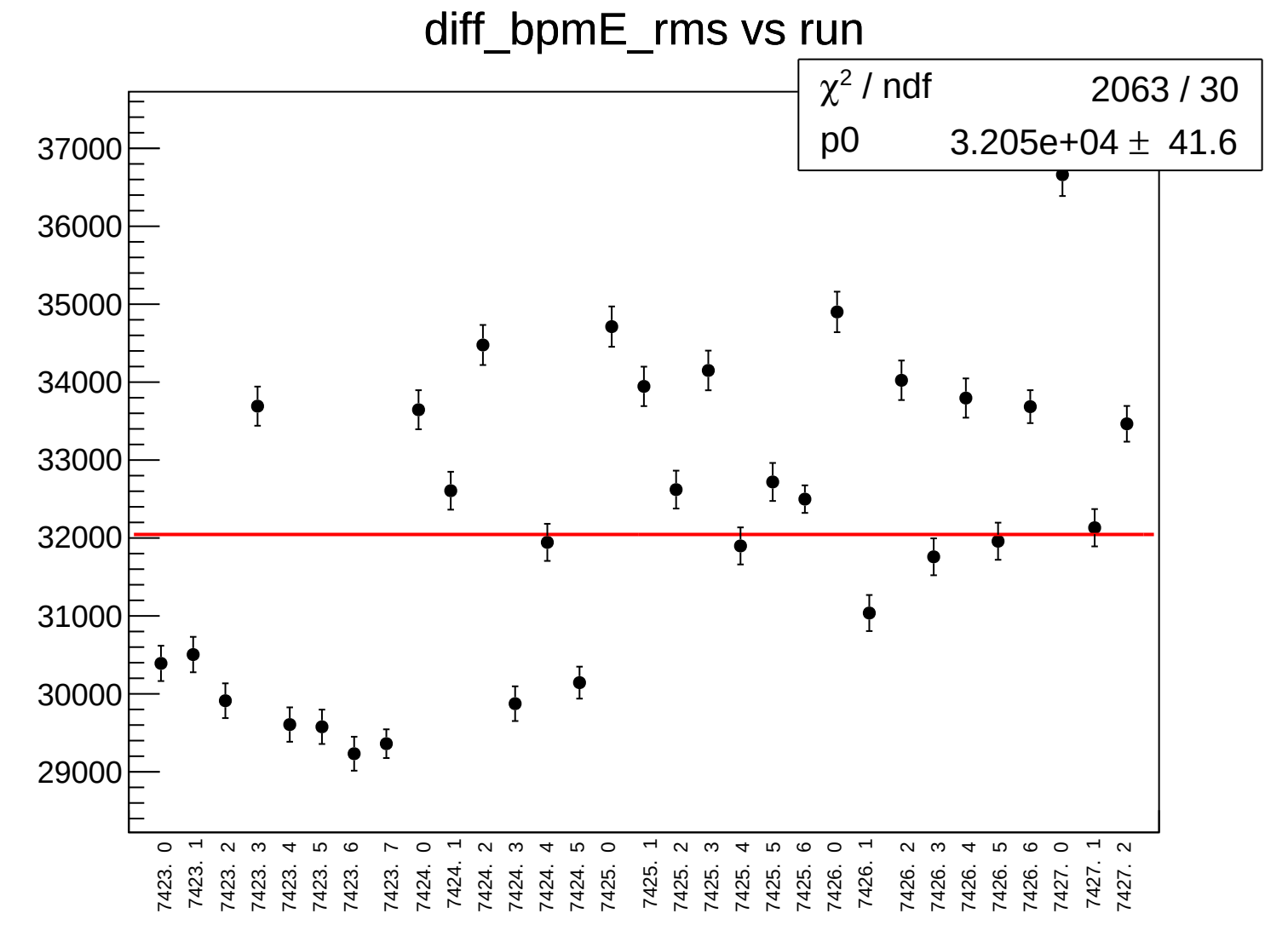

diff_targ_thetaY_mean vs run
χ² / ndf 27.38 / 30
p0 −0.4143 ± 0.6596
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 64.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

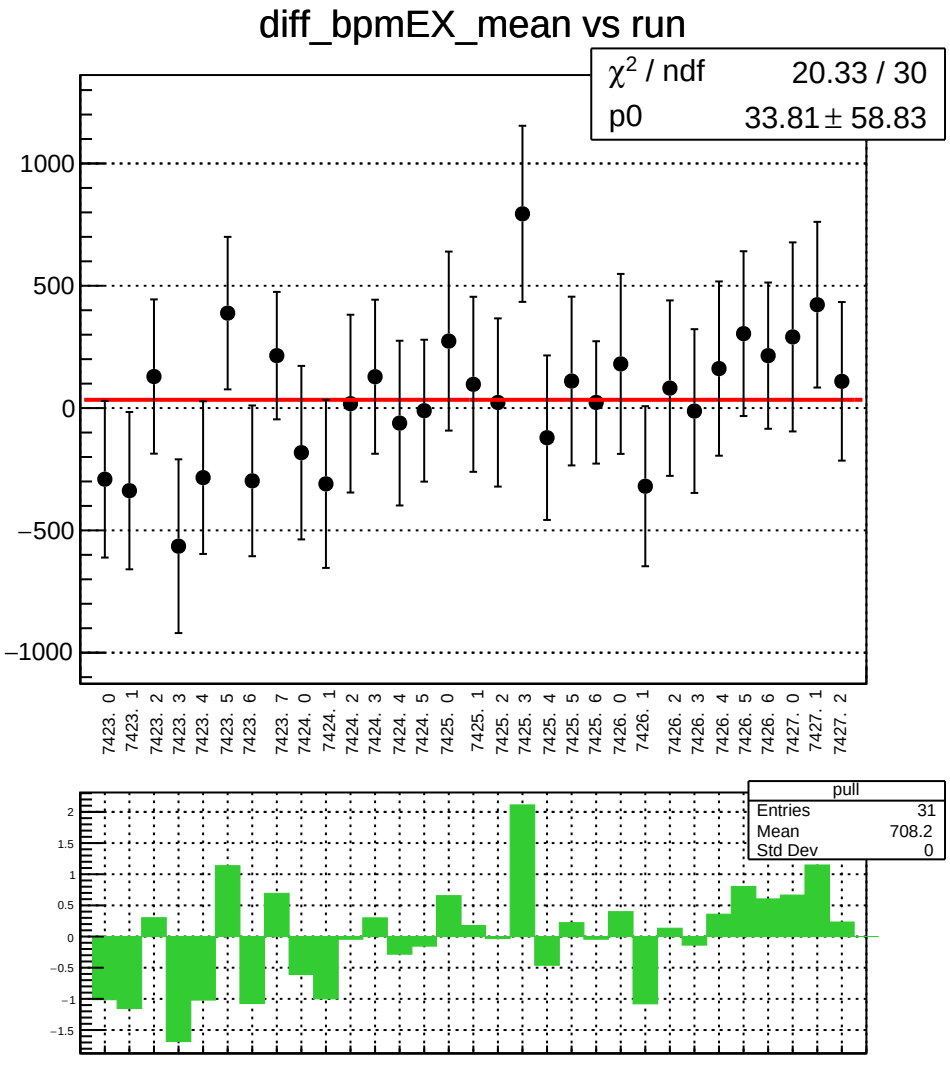

pull1D
Entries 31
Mean 0.02991
Std Dev 0.9394
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

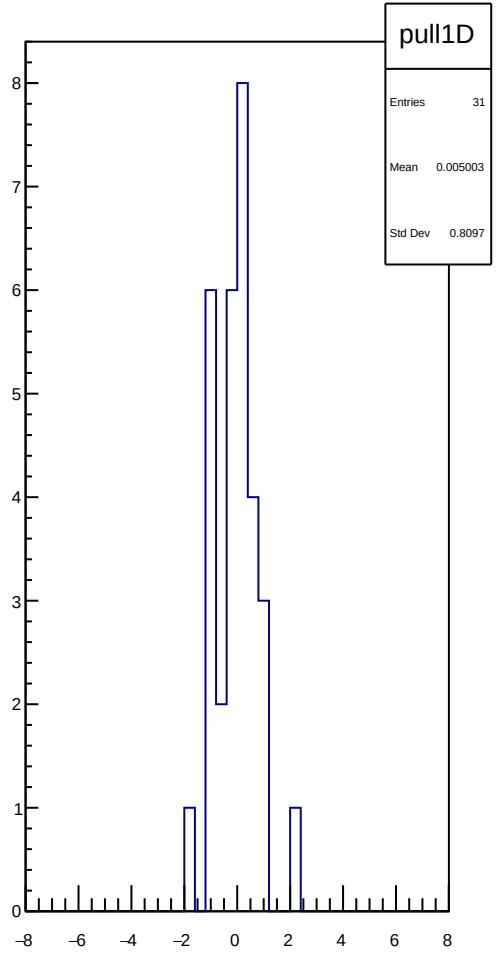

diff_targ_thetaY_rms vs run
χ² / ndf 3704 / 30
p0 358.8 ± 0.4664
420
400
380
360
340
320
300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

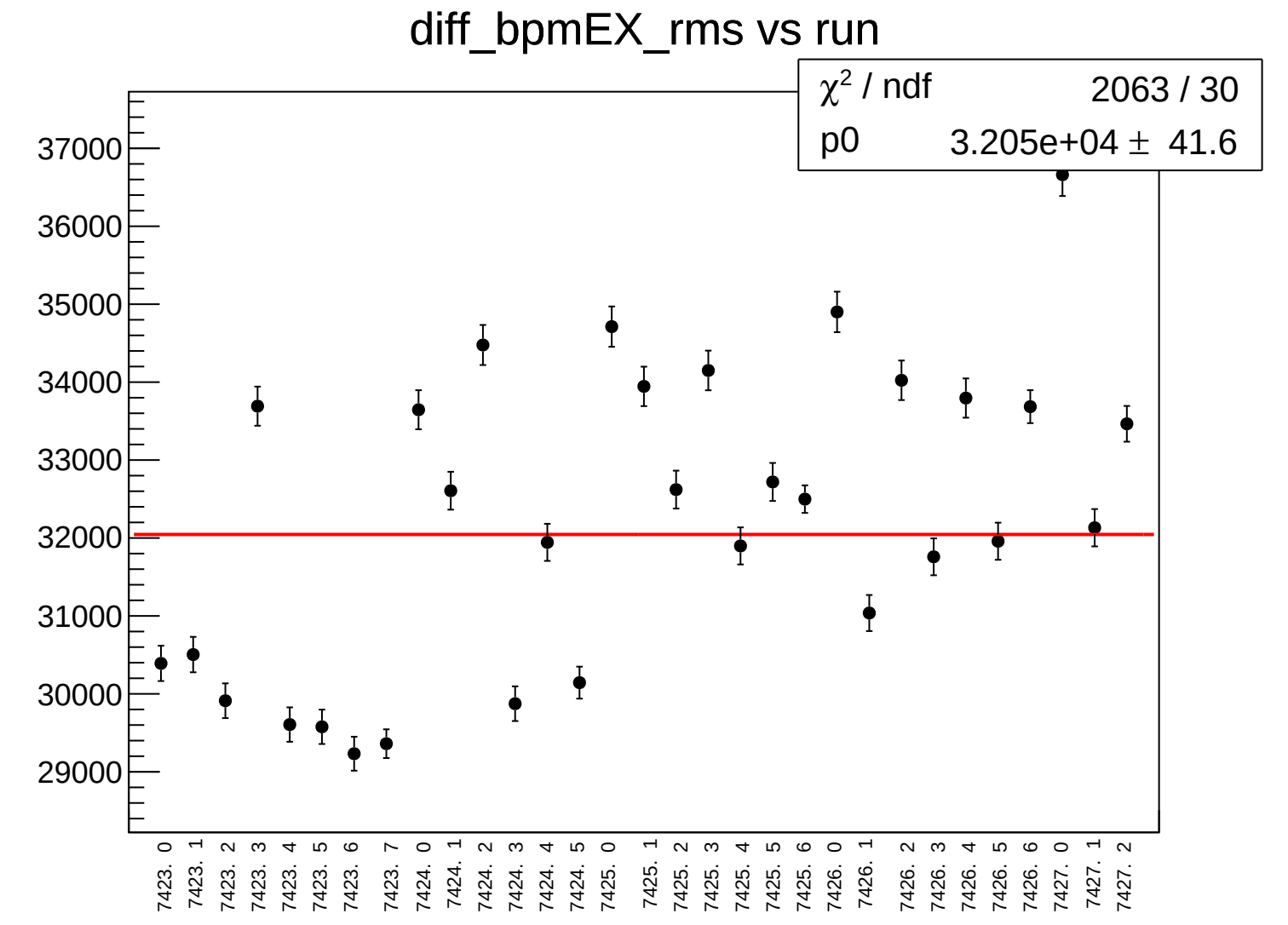

diff_bpmE_mean vs run
χ² / ndf 20.33 / 30
p0 33.81 ± 58.83
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 708.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

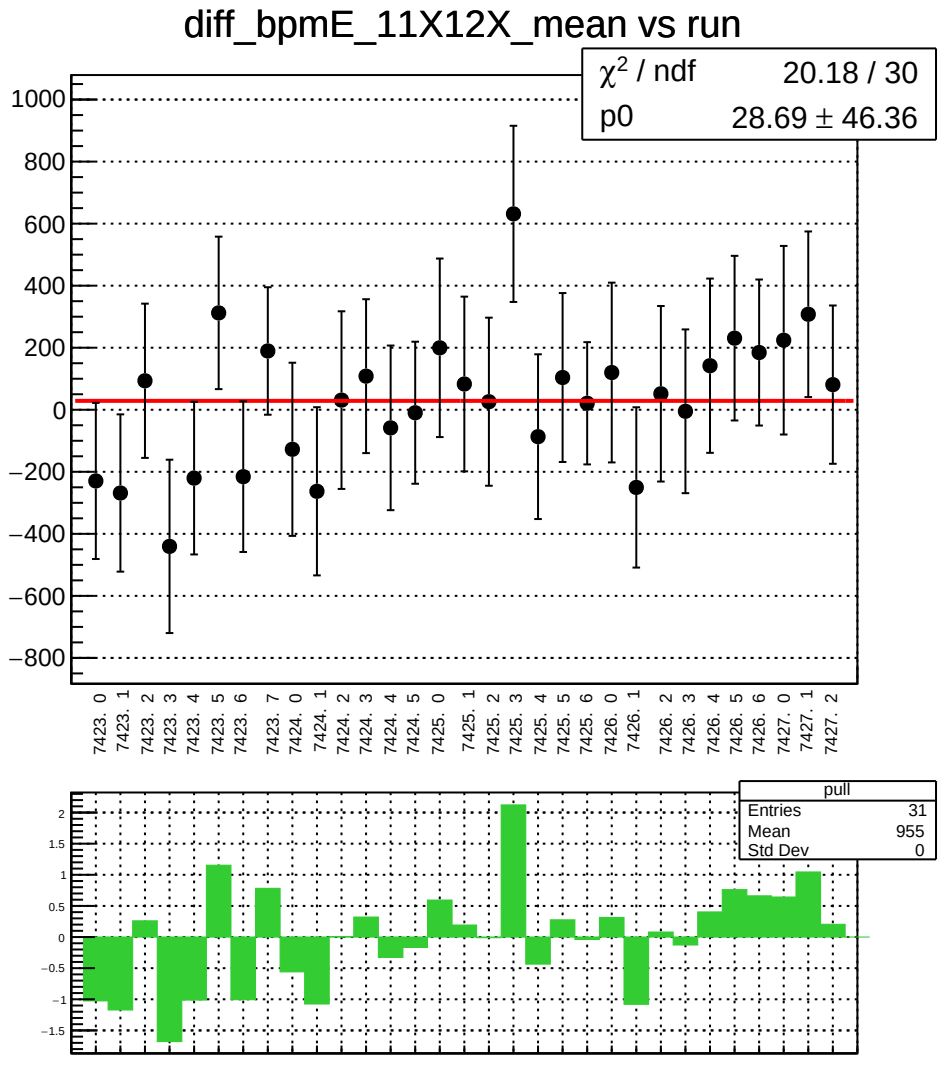

pull1D
Entries 31
Mean 0.005003
Std Dev 0.8097
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

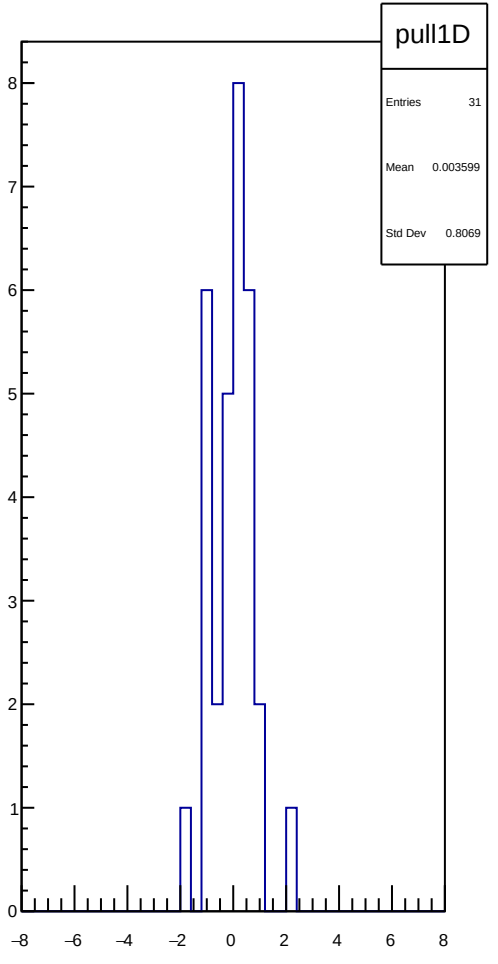

diff_bpmE_rms vs run
χ² / ndf 2063 / 30
p0 3.205e+04 ± 41.6
37000
36000
35000
34000
33000
32000
31000
30000
29000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

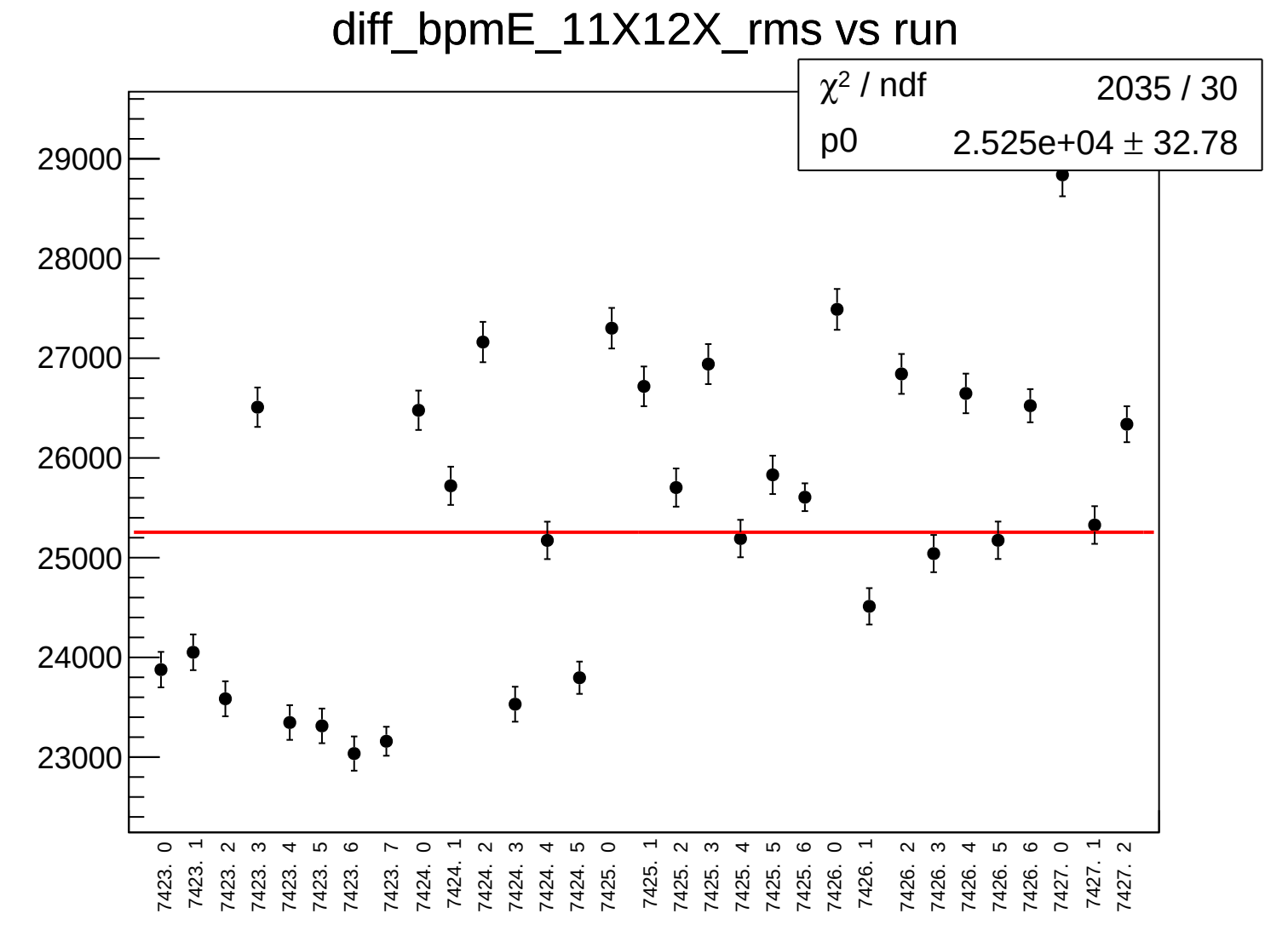

diff_bpmEX_mean vs run
χ² / ndf 20.33 / 30
p0 33.81 ± 58.83
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 708.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

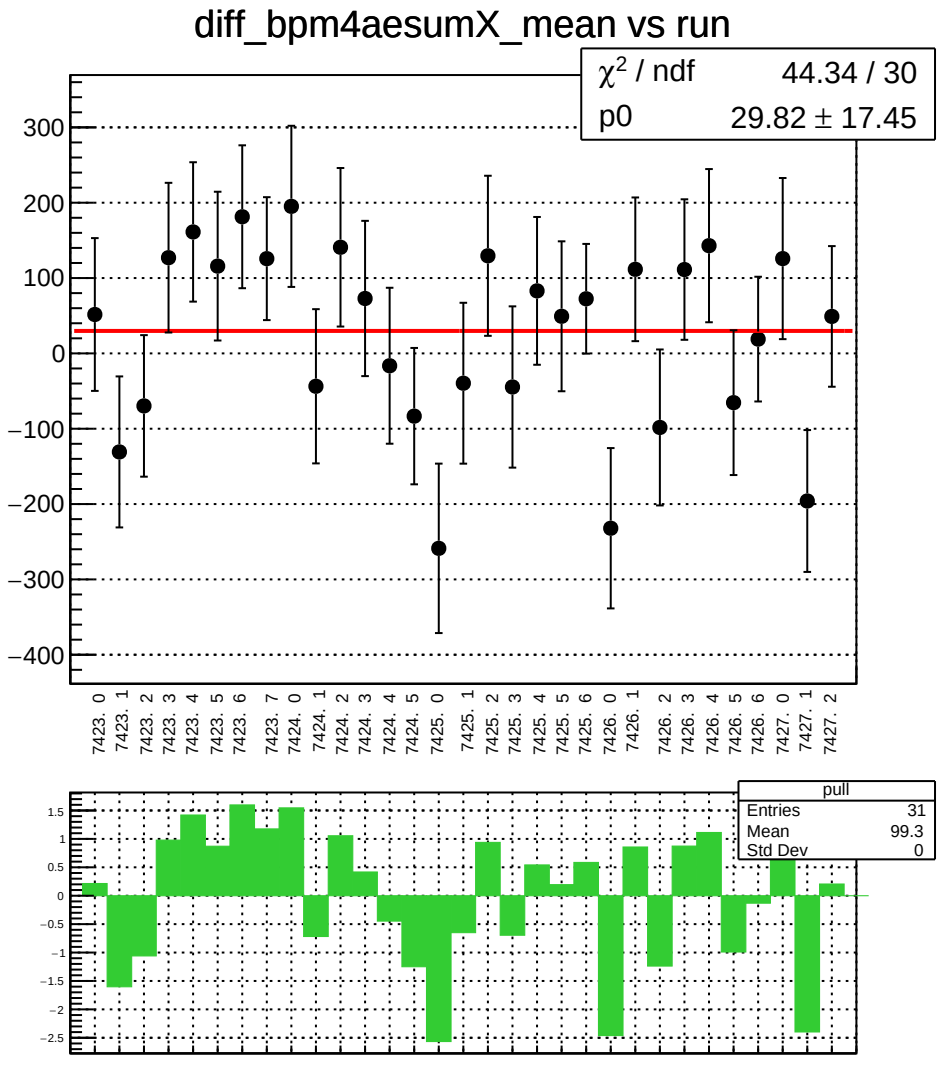

pull1D
Entries 31
Mean 0.005003
Std Dev 0.8097
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

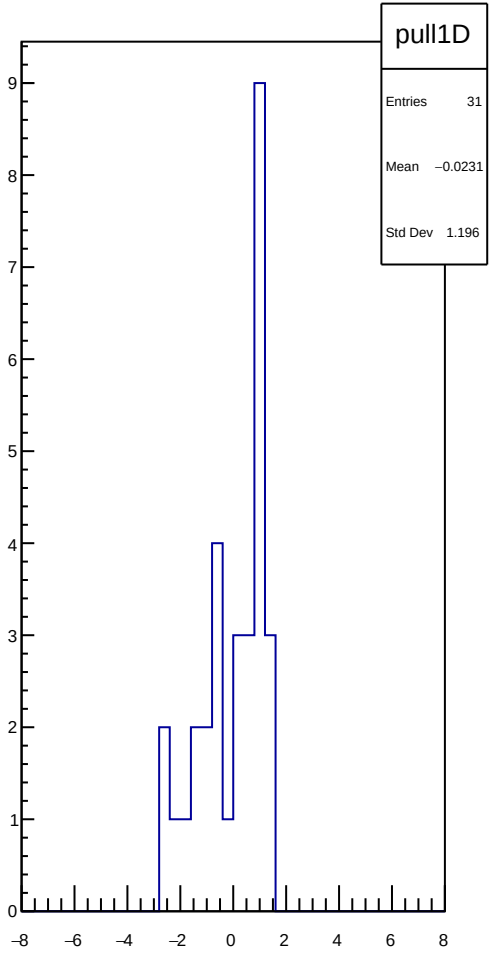

diff_bpmEX_rms vs run
χ² / ndf 2063 / 30
p0 3.205e+04 ± 41.6
37000
36000
35000
34000
33000
32000
31000
30000
29000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

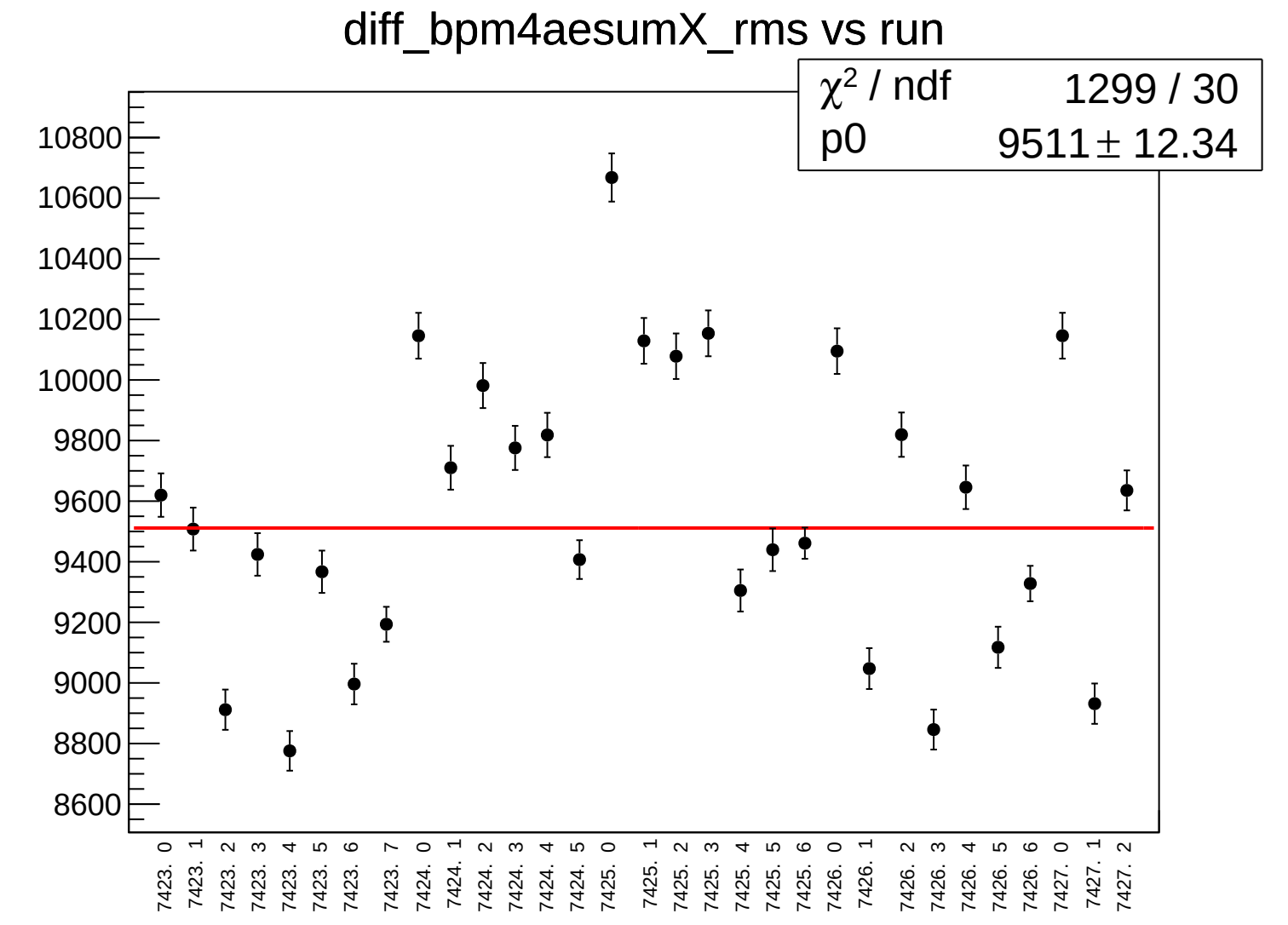

diff_bpmE_11X12X_mean vs run
χ² / ndf 20.18 / 30
p0 28.69 ± 46.36
1000
800
600
400
200
0
−200
−400
−600
−800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 955
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

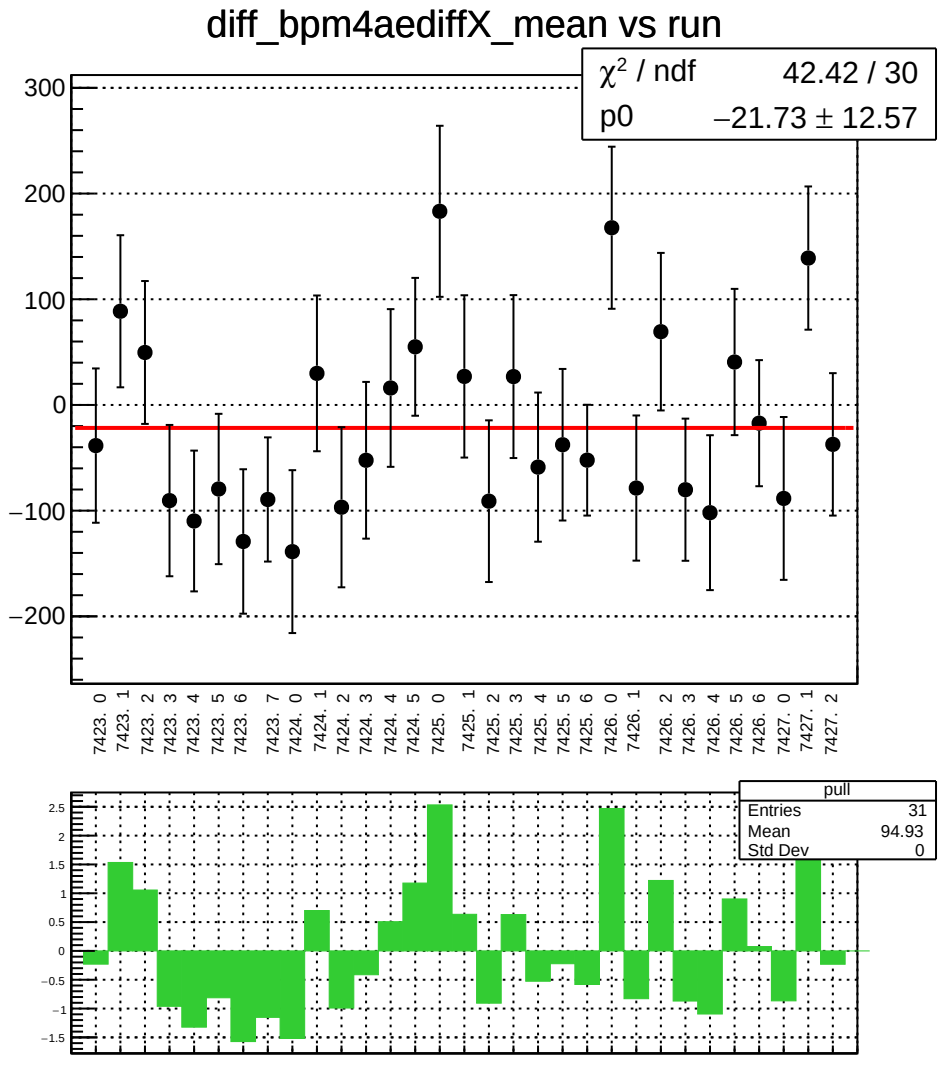

pull1D
Entries 31
Mean 0.003599
Std Dev 0.8069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

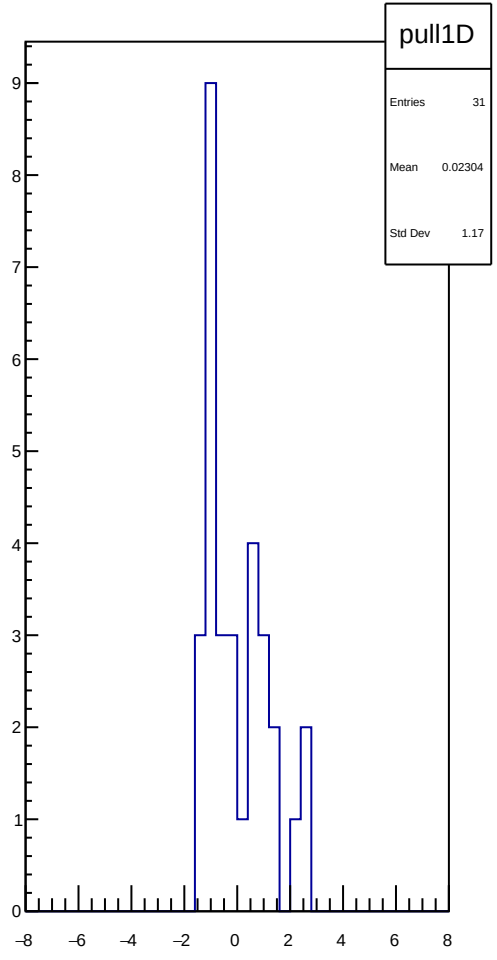

diff_bpmE_11X12X_rms vs run
χ² / ndf 2035 / 30
p0 2.525e+04 ± 32.78
29000
28000
27000
26000
25000
24000
23000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

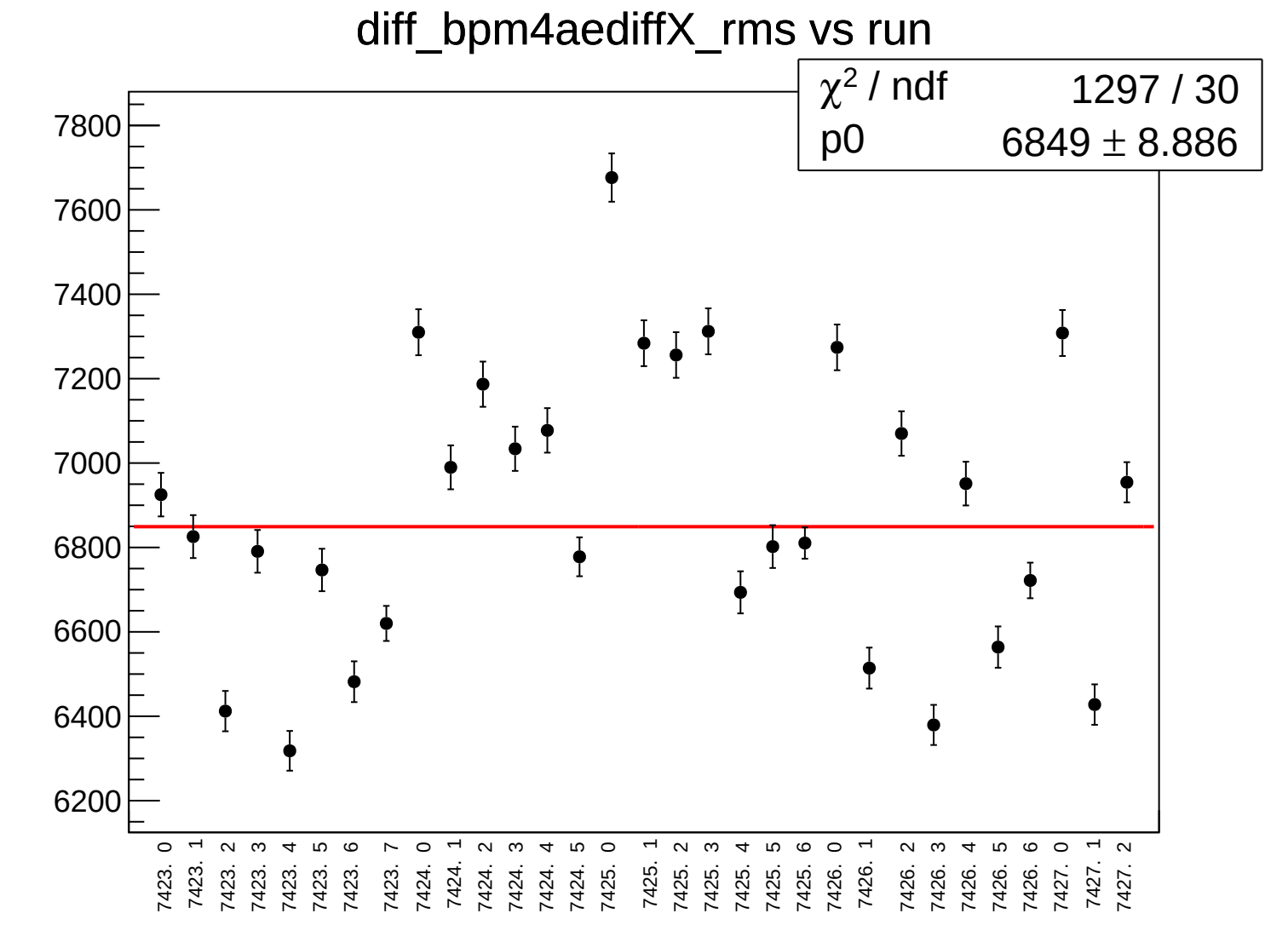

diff_bpm4aesumX_mean vs run
χ² / ndf 44.34 / 30
p0 29.82 ± 17.45
300
200
100
0
−100
−200
−300
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 99.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

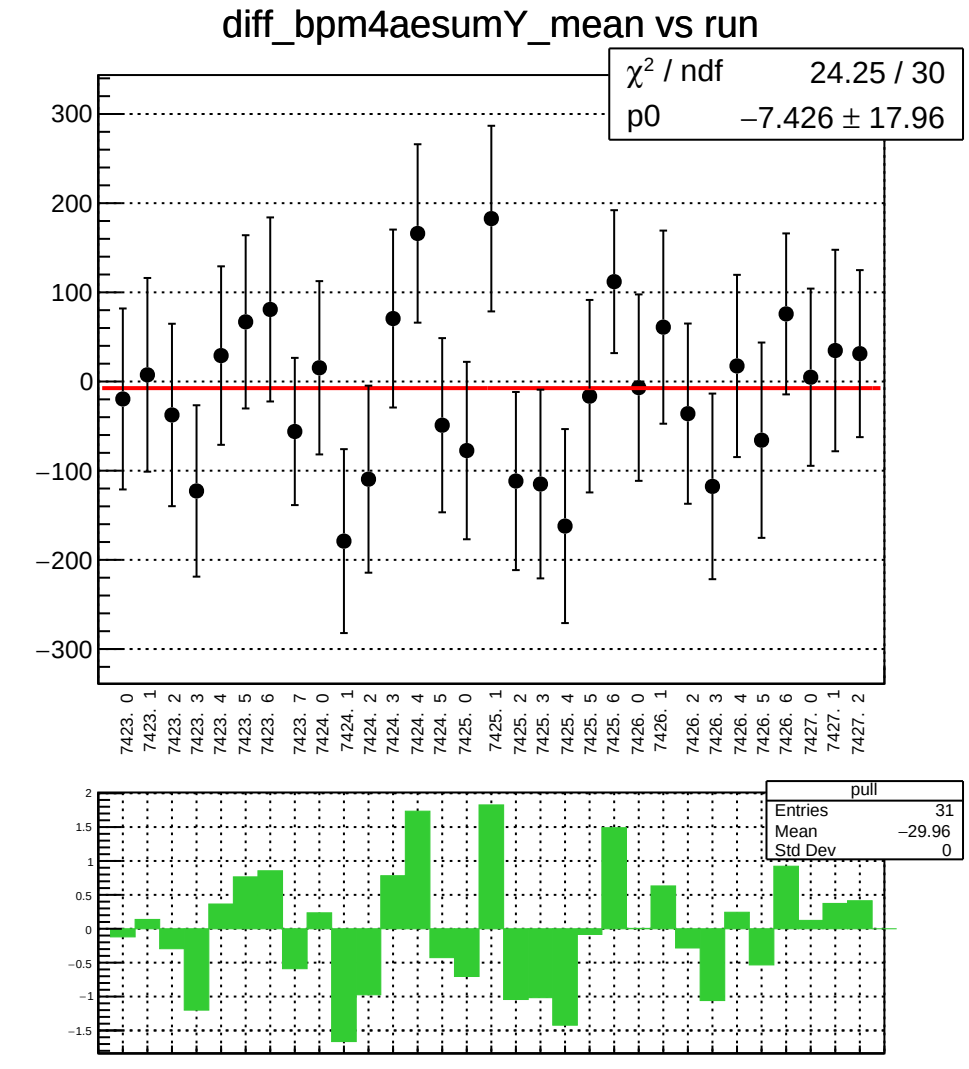

pull1D
Entries 31
Mean −0.0231
Std Dev 1.196
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

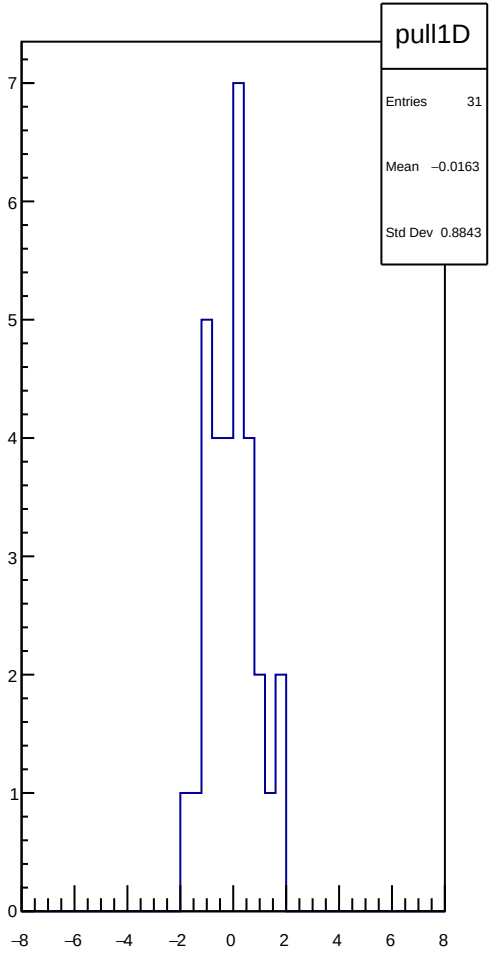

diff_bpm4aesumX_rms vs run
χ² / ndf 1299 / 30
p0 9511 ± 12.34
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

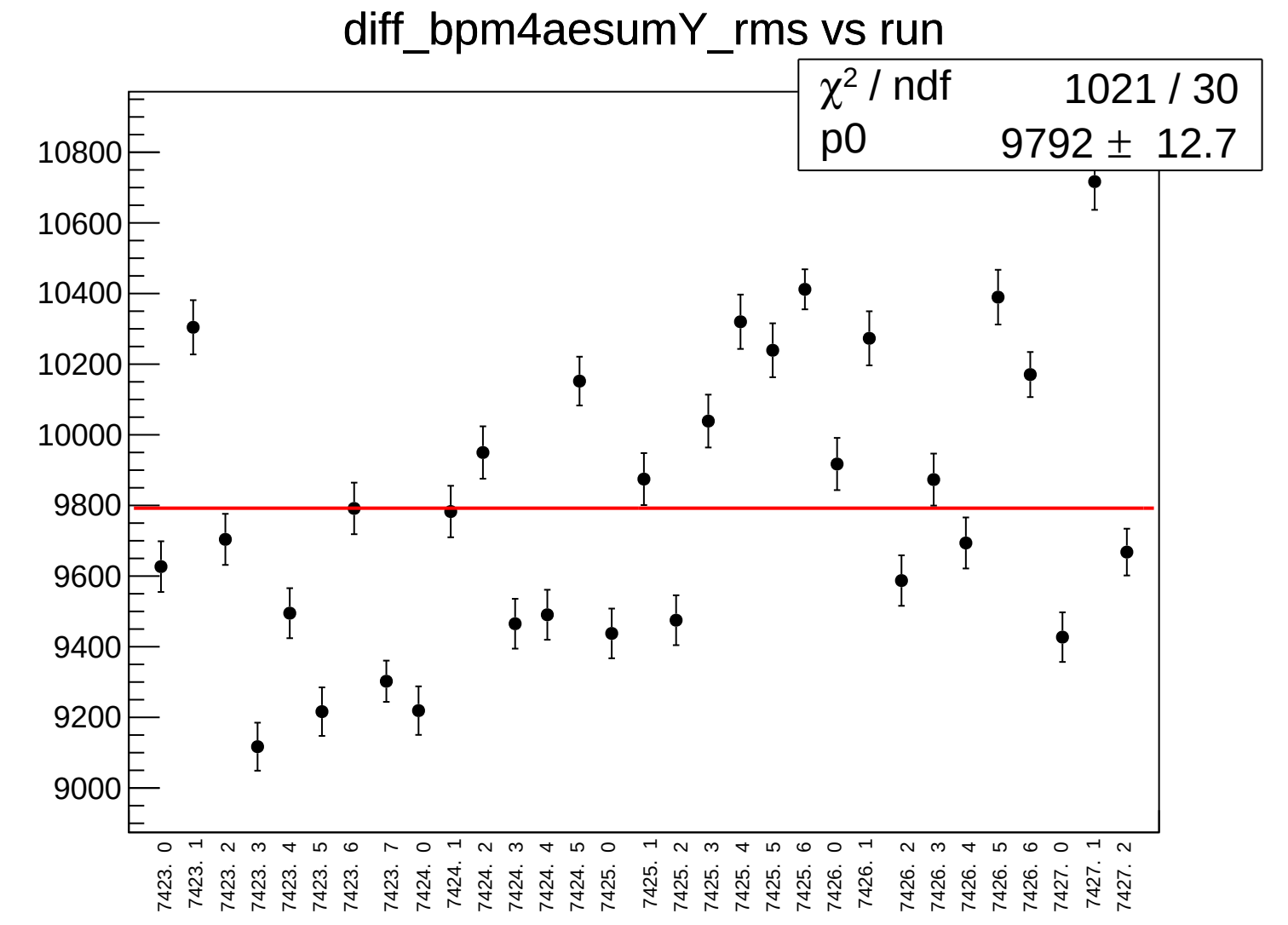

diff_bpm4aediffX_mean vs run
χ² / ndf 42.42 / 30
p0 −21.73 ± 12.57
300
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 94.93
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

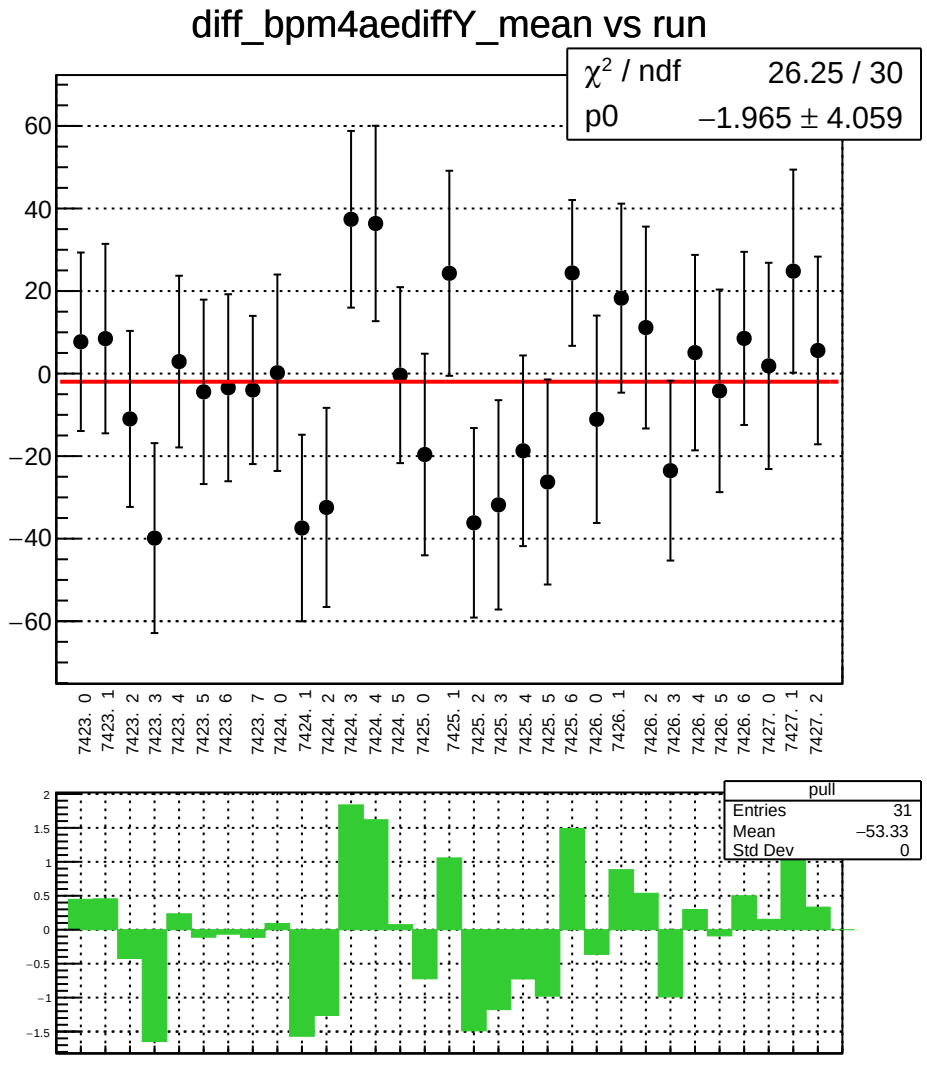

pull1D
Entries 31
Mean 0.02304
Std Dev 1.17
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

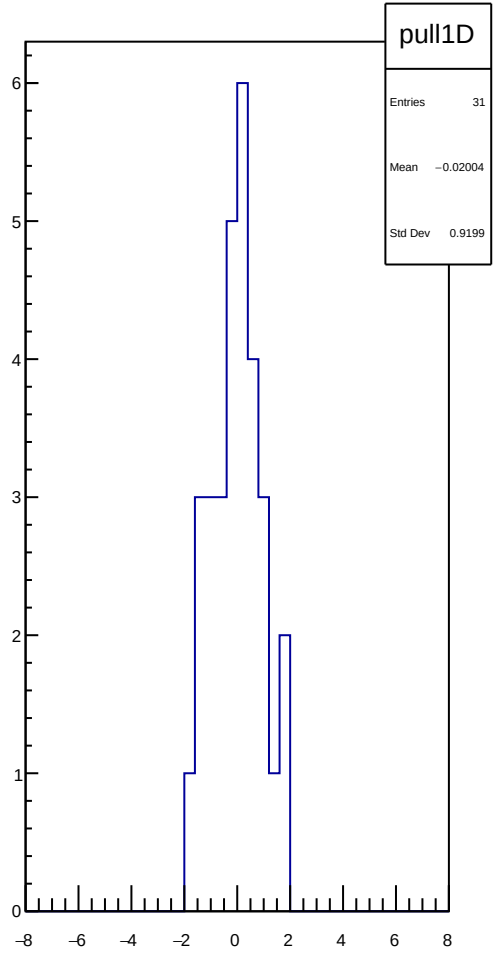

diff_bpm4aediffX_rms vs run
χ² / ndf 1297 / 30
p0 6849 ± 8.886
7800
7600
7400
7200
7000
6800
6600
6400
6200
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

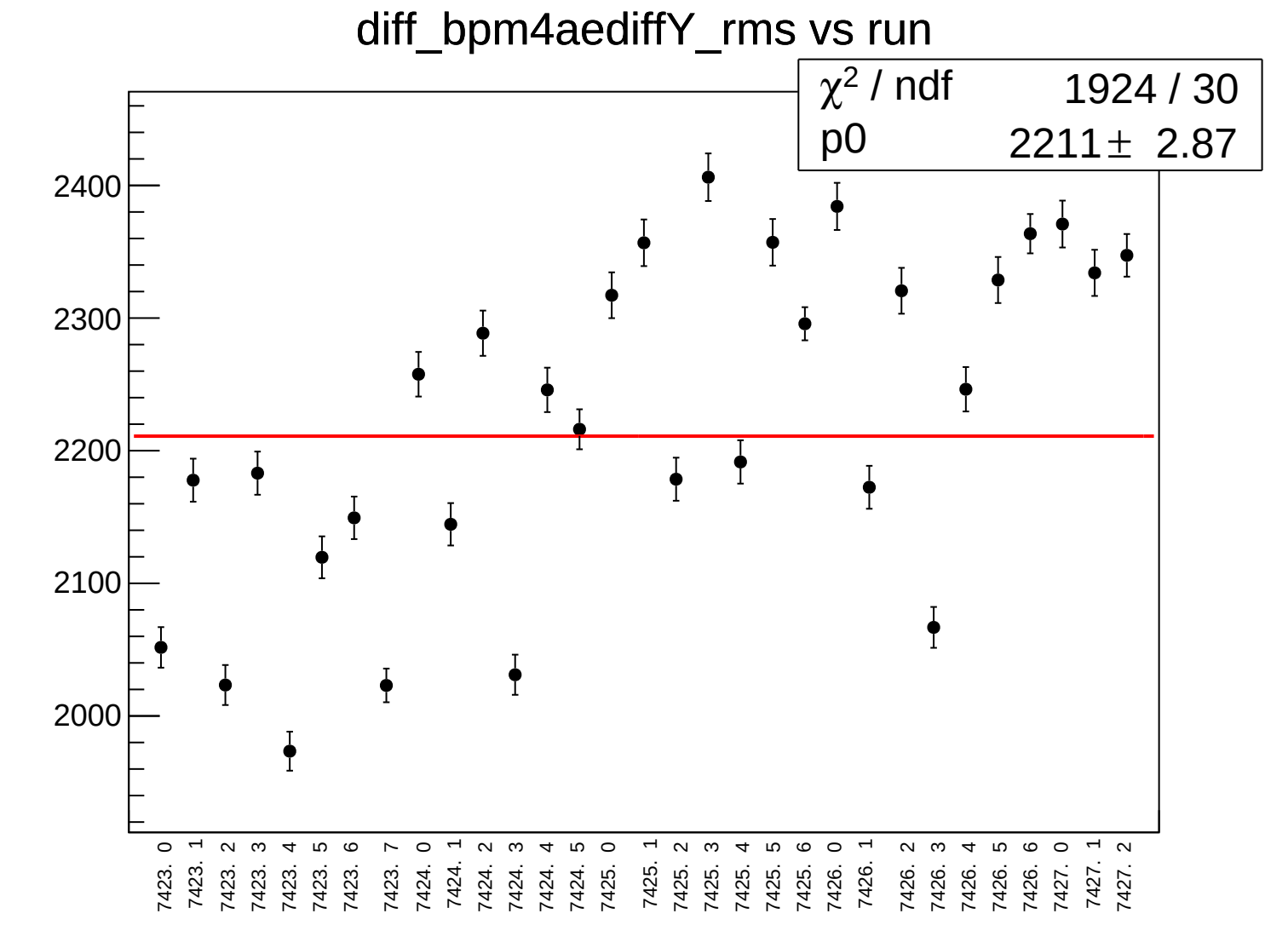

diff_bpm4aesumY_mean vs run
χ² / ndf 24.25 / 30
p0 −7.426 ± 17.96
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −29.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

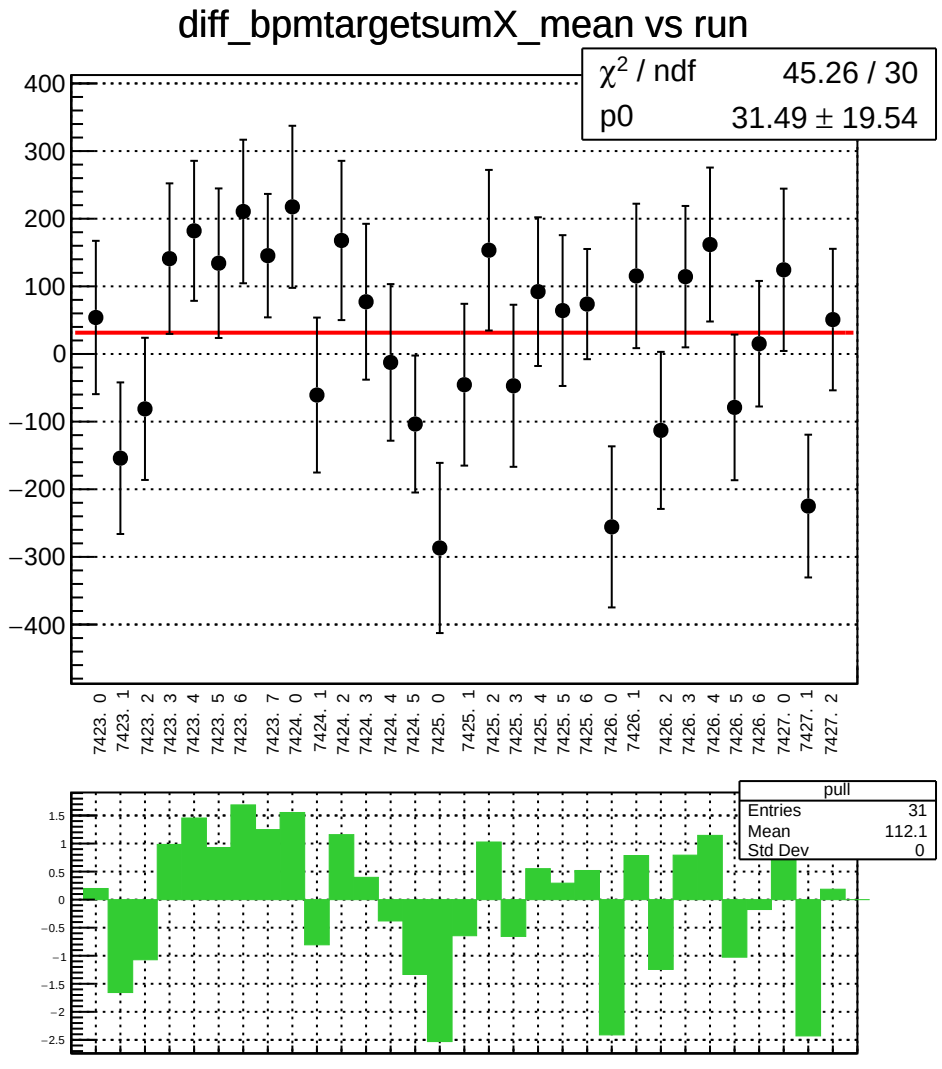

pull1D
Entries 31
Mean −0.0163
Std Dev 0.8843
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

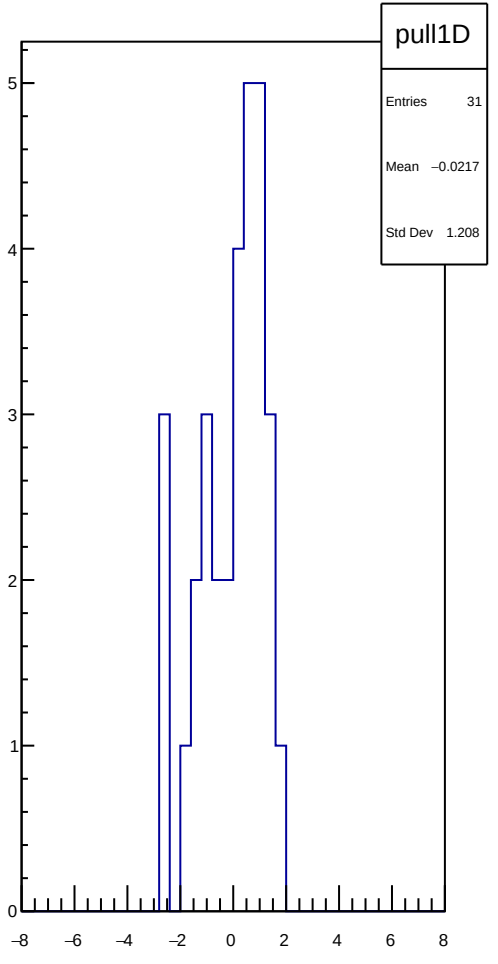

diff_bpm4aesumY_rms vs run
χ² / ndf 1021 / 30
p0 9792 ± 12.7
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

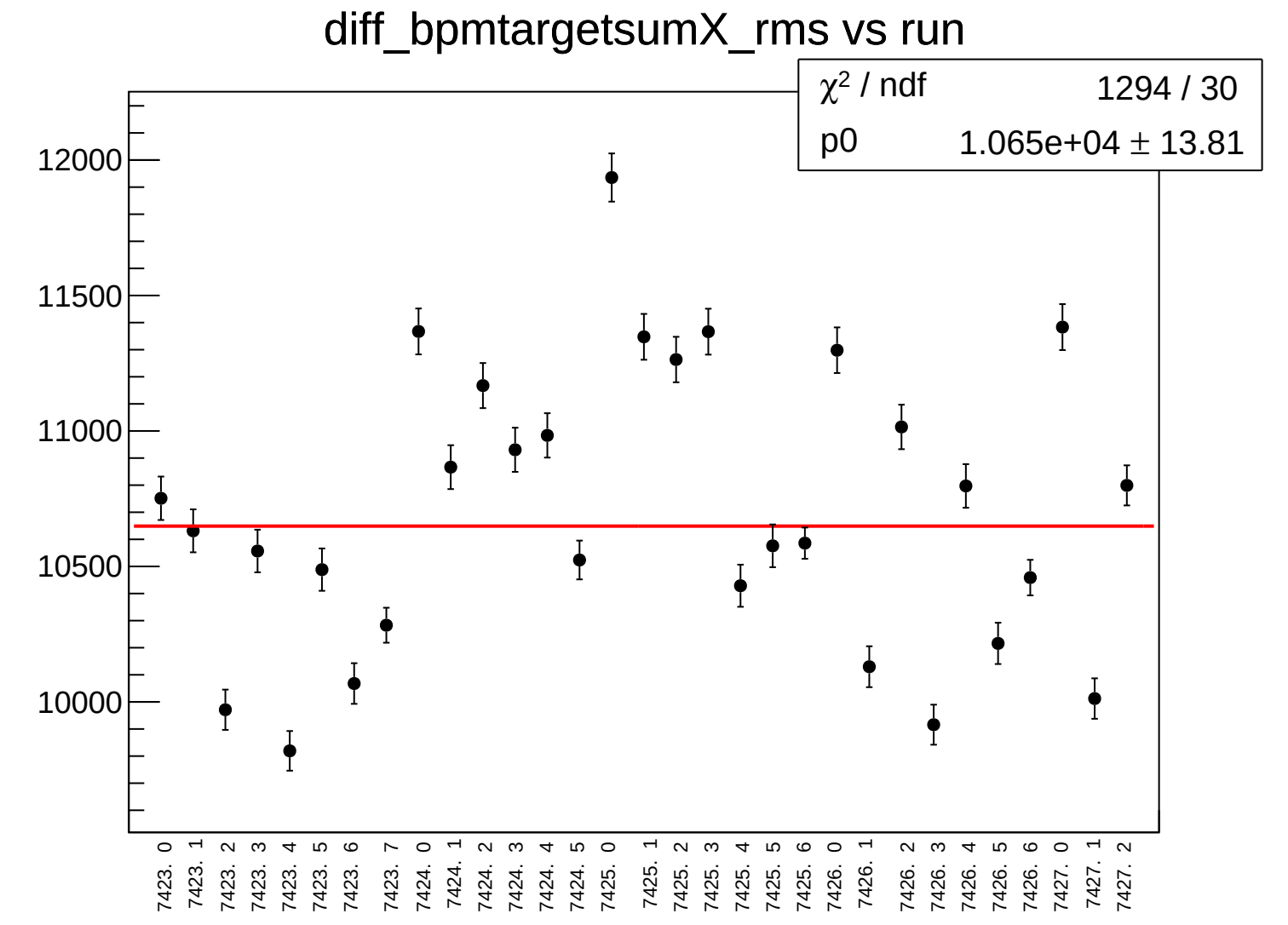

diff_bpm4aediffY_mean vs run
χ² / ndf 26.25 / 30
p0 −1.965 ± 4.059
60
40
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −53.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

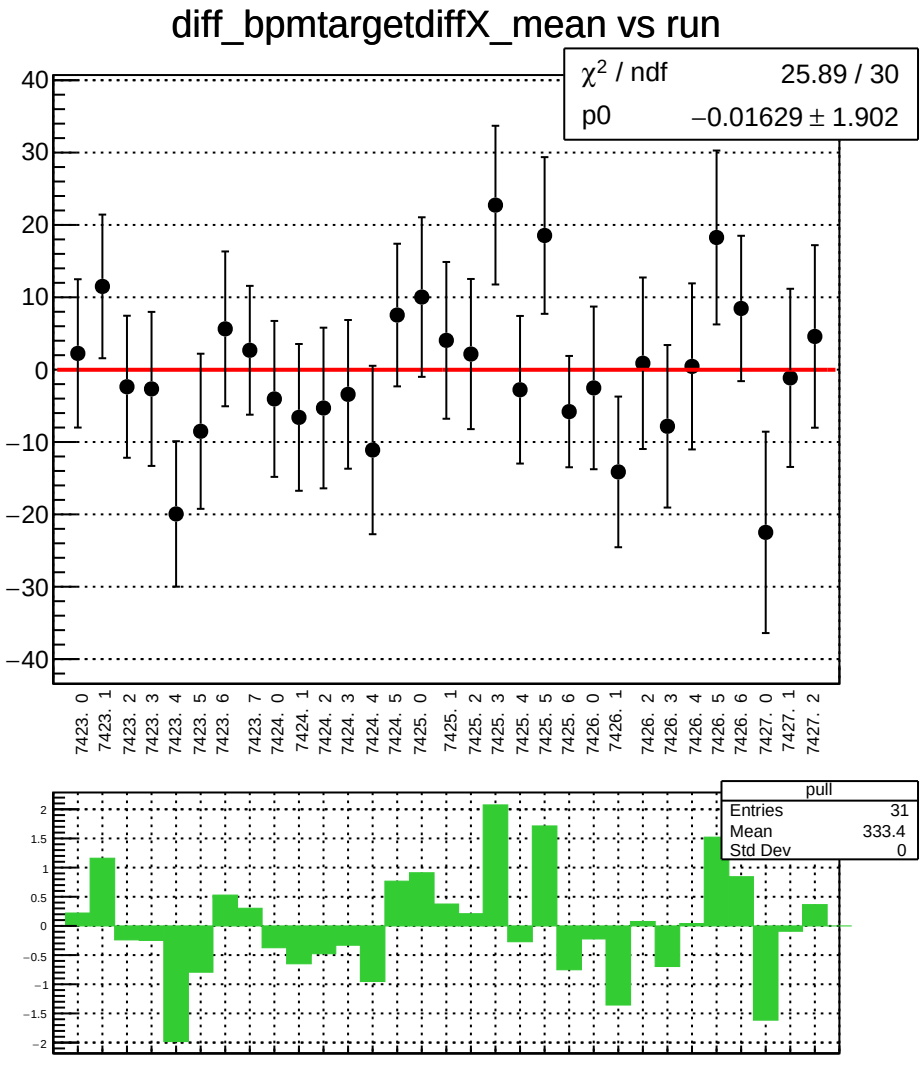

pull1D
Entries 31
Mean −0.02004
Std Dev 0.9199
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

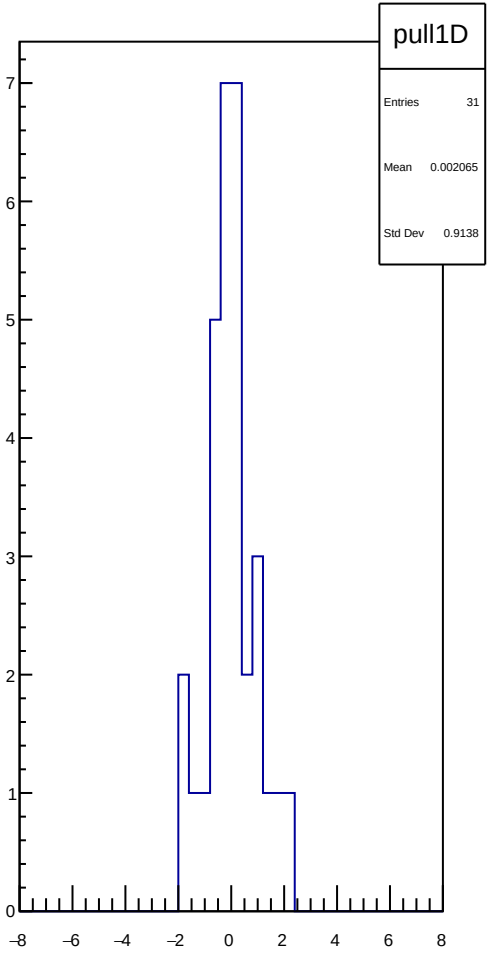

diff_bpm4aediffY_rms vs run
χ² / ndf 1924 / 30
p0 2211 ± 2.87
2400
2300
2200
2100
2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

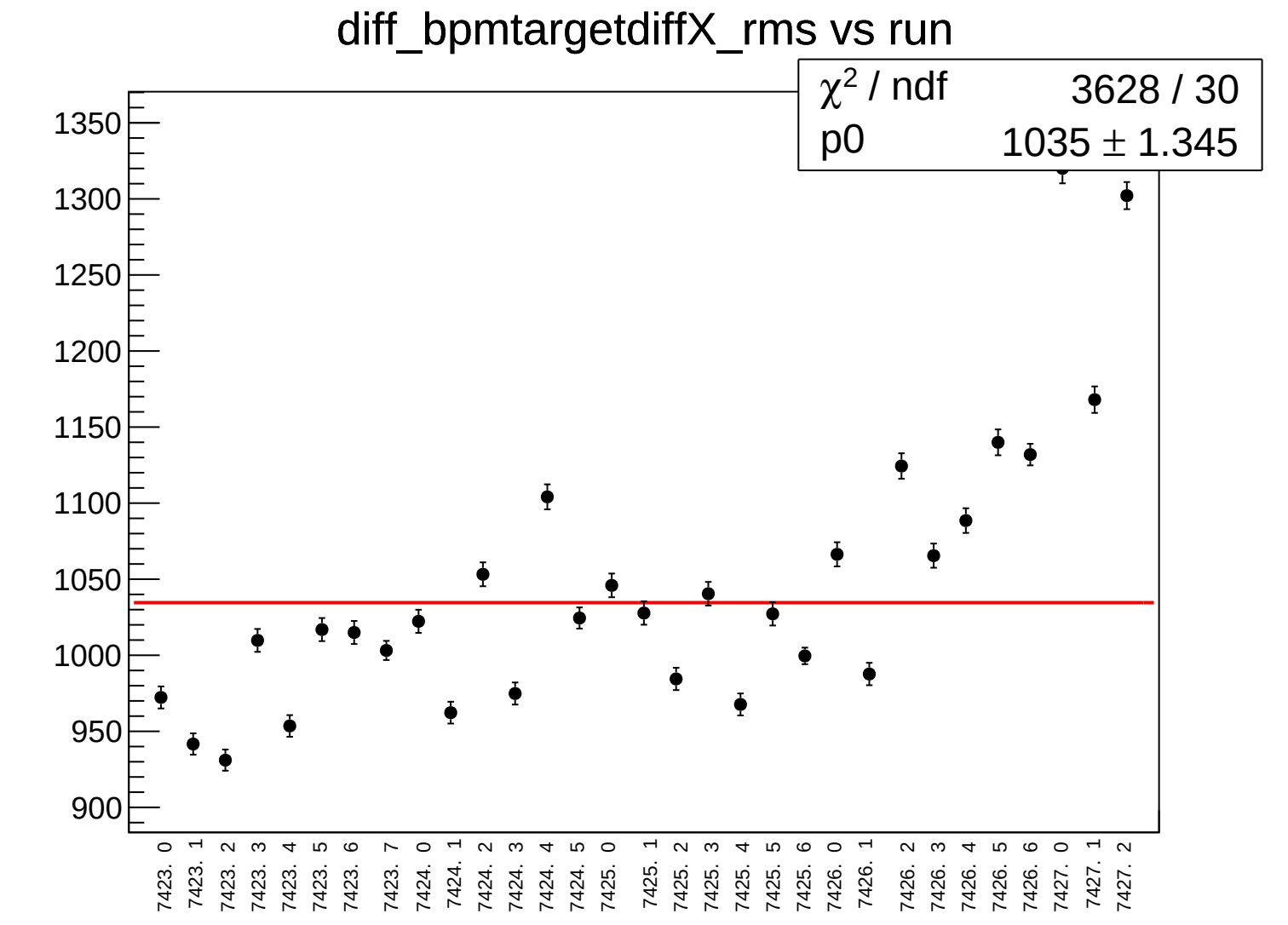

diff_bpmtargetsumX_mean vs run
χ² / ndf 45.26 / 30
p0 31.49 ± 19.54
400
300
200
100
0
−100
−200
−300
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 112.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

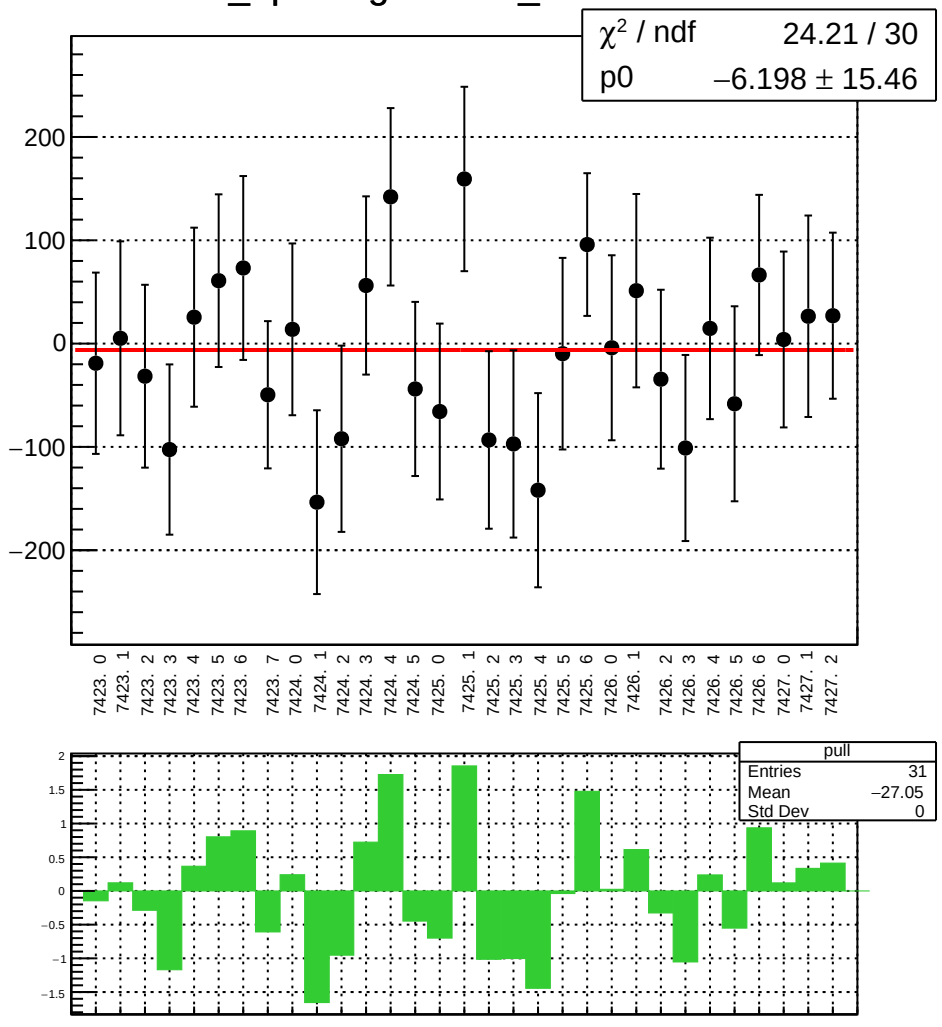

pull1D
Entries 31
Mean −0.0217
Std Dev 1.208
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

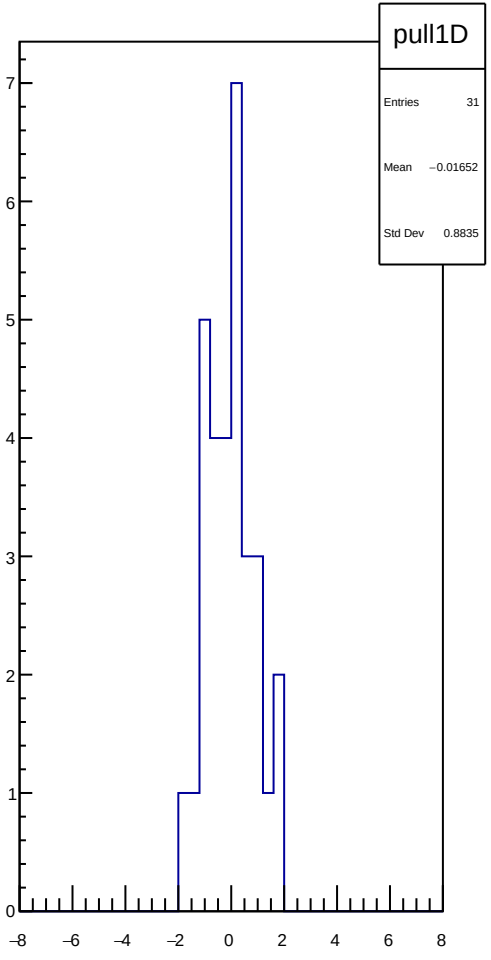

diff_bpmtargetsumX_rms vs run
χ² / ndf 1294 / 30
p0 1.065e+04 ± 13.81
12000
11500
11000
10500
10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

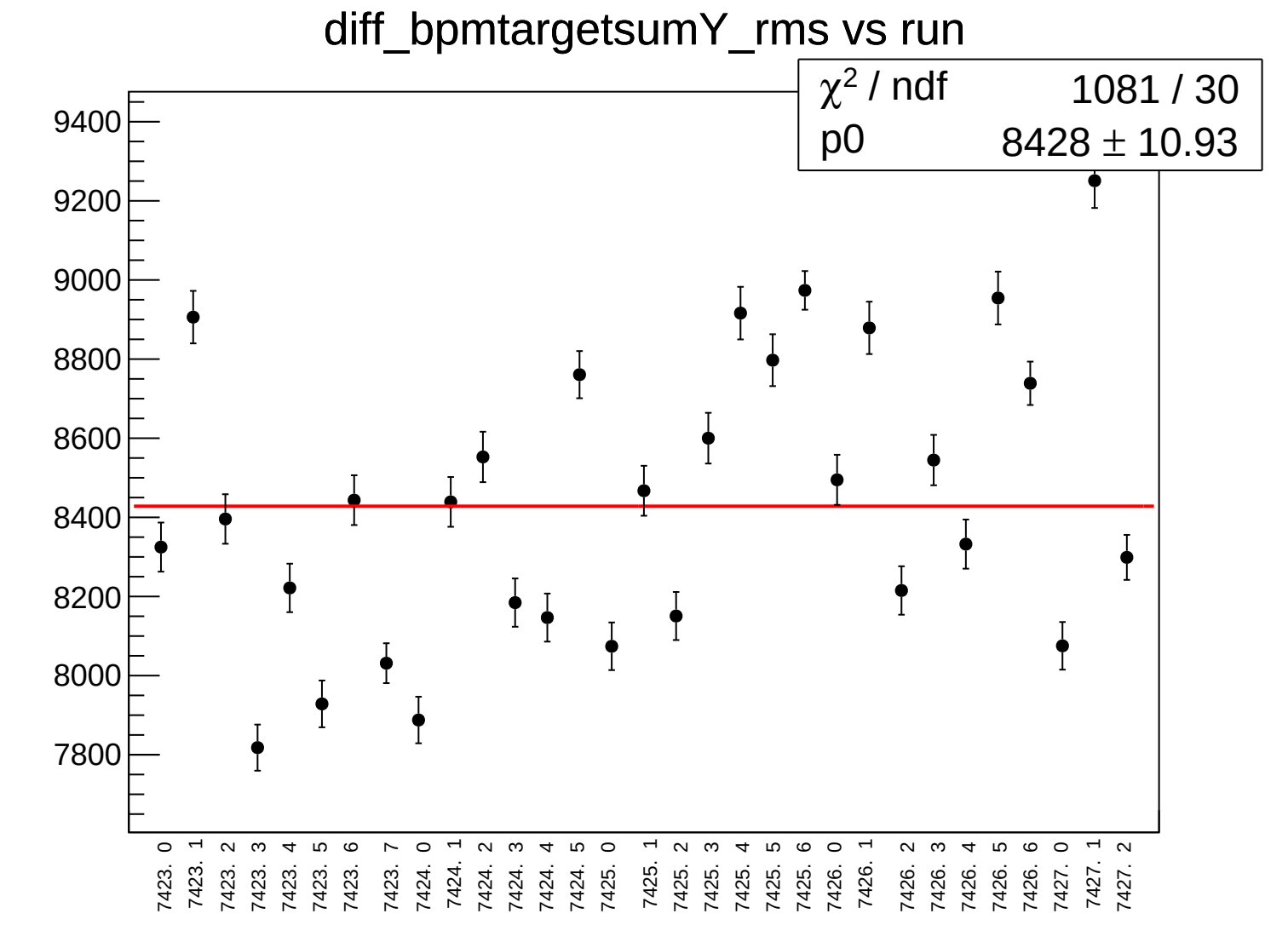

diff_bpmtargetdiffX_mean vs run
χ² / ndf 25.89 / 30
p0 −0.01629 ± 1.902
40
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 333.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

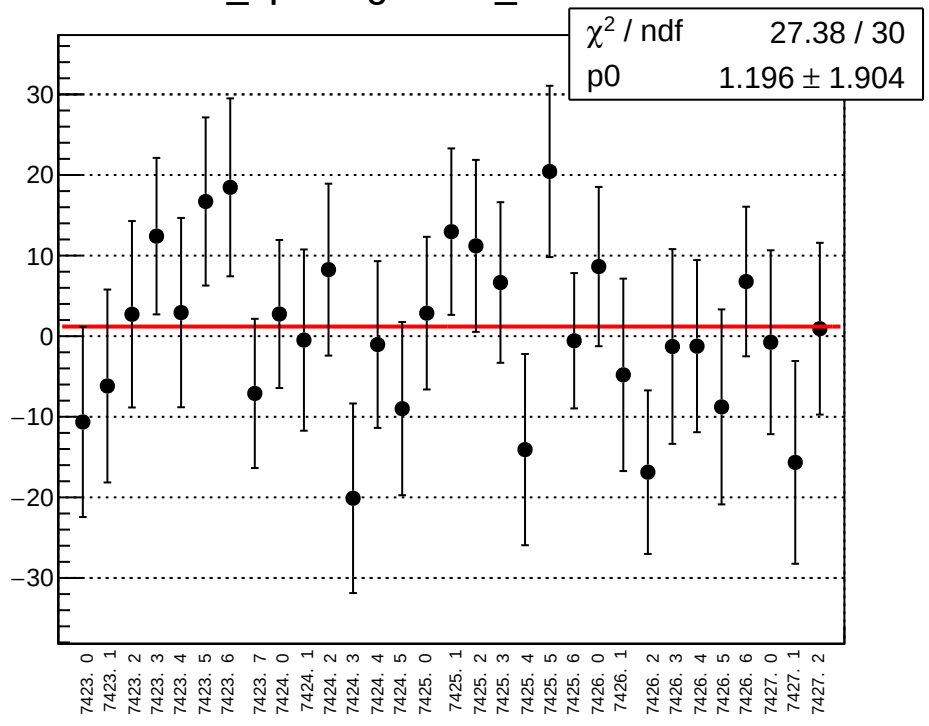

pull1D
Entries 31
Mean 0.002065
Std Dev 0.9138
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

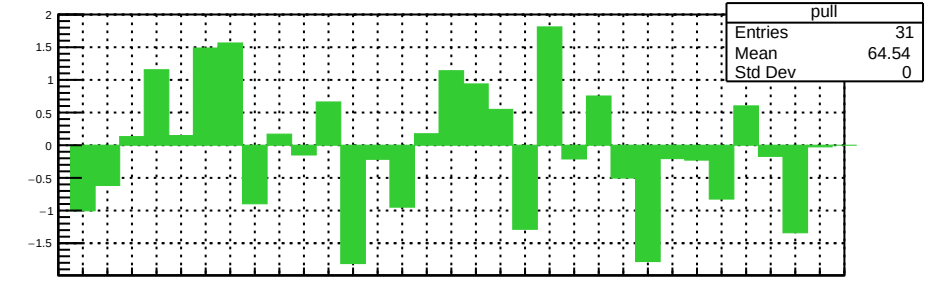

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3628 / 30
p0 1035 ± 1.345
1350
1300
1250
1200
1150
1100
1050
1000
950
900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

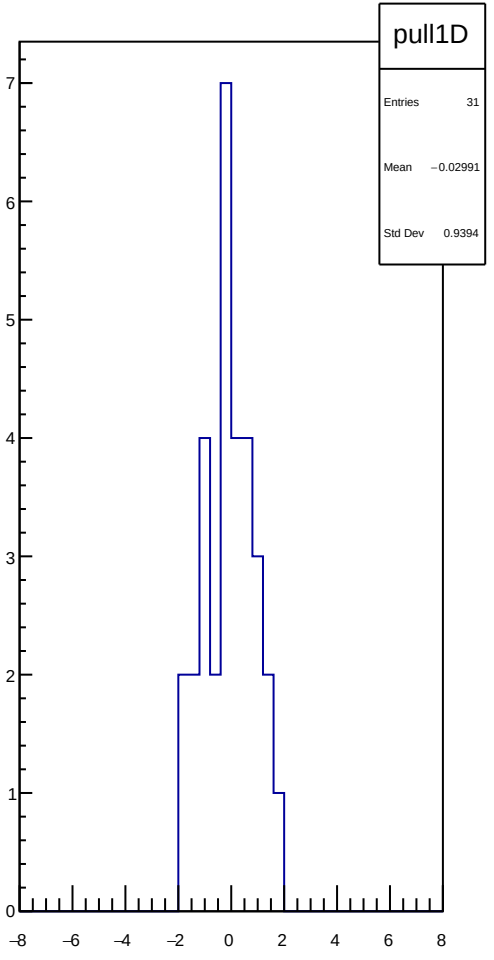

diff_bpmtargetsumY_mean vs run
χ² / ndf 24.21 / 30
p0 −6.198 ± 15.46
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −27.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

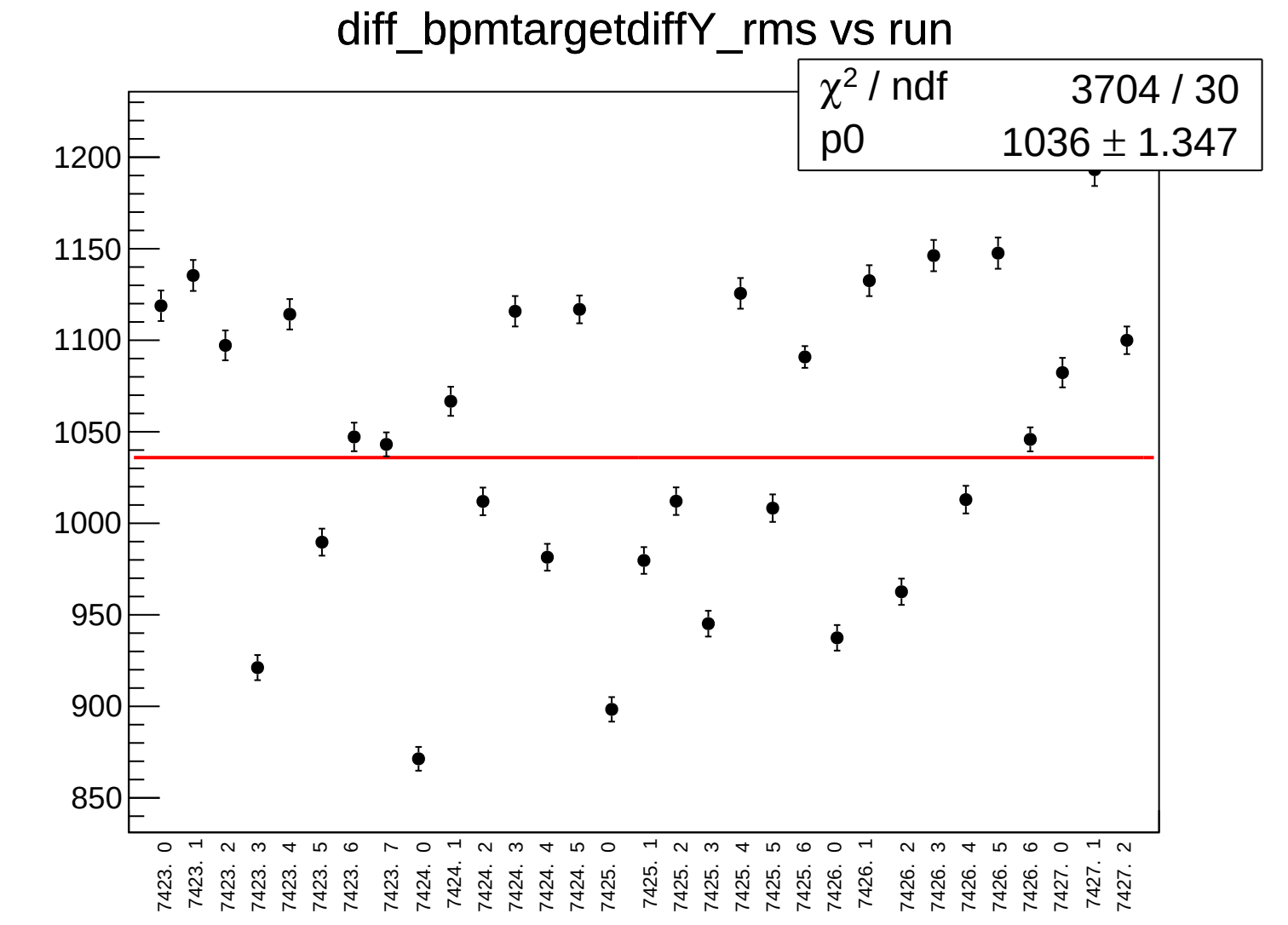

pull1D
Entries 31
Mean −0.01652
Std Dev 0.8835
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

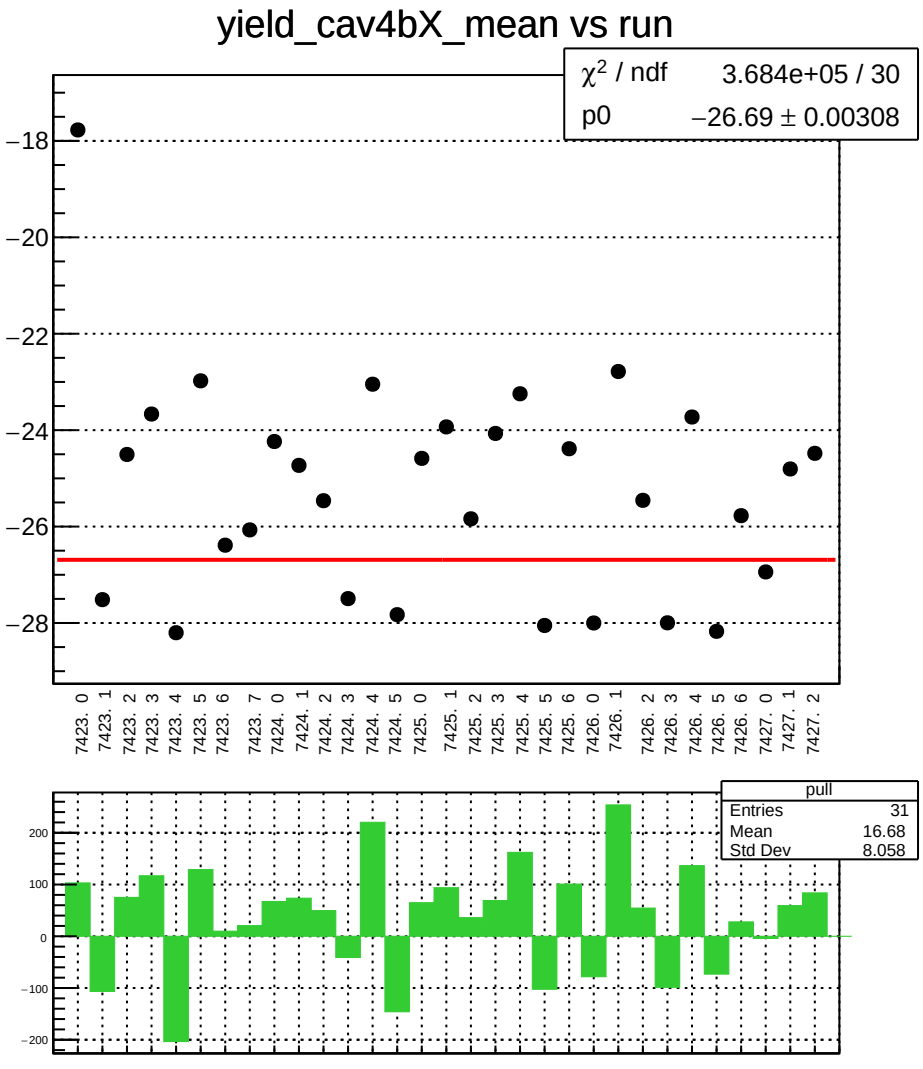

diff_bpmtargetsumY_rms vs run
χ² / ndf 1081 / 30
p0 8428 ± 10.93
9400
9200
9000
8800
8600
8400
8200
8000
7800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

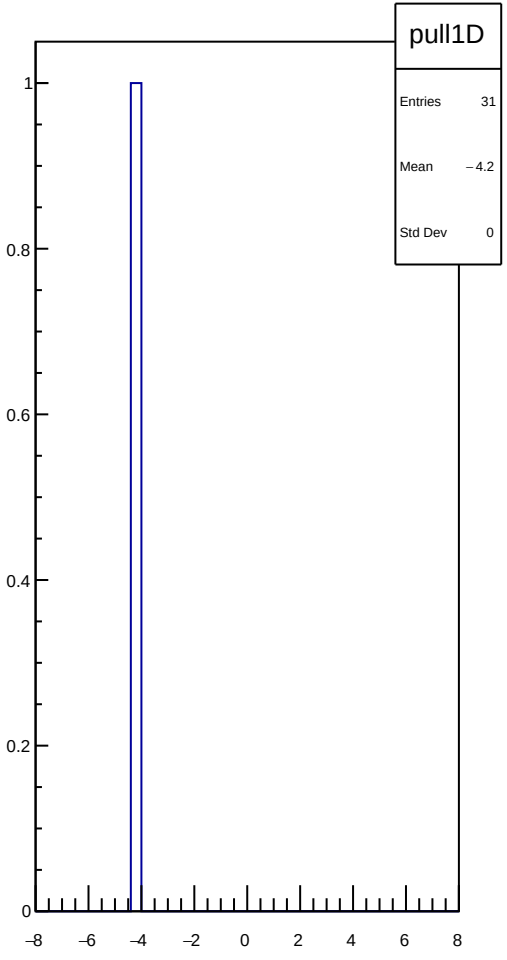

diff_bpmtargetdiffY_mean vs run
χ² / ndf 27.38 / 30
p0 1.196 ± 1.904
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

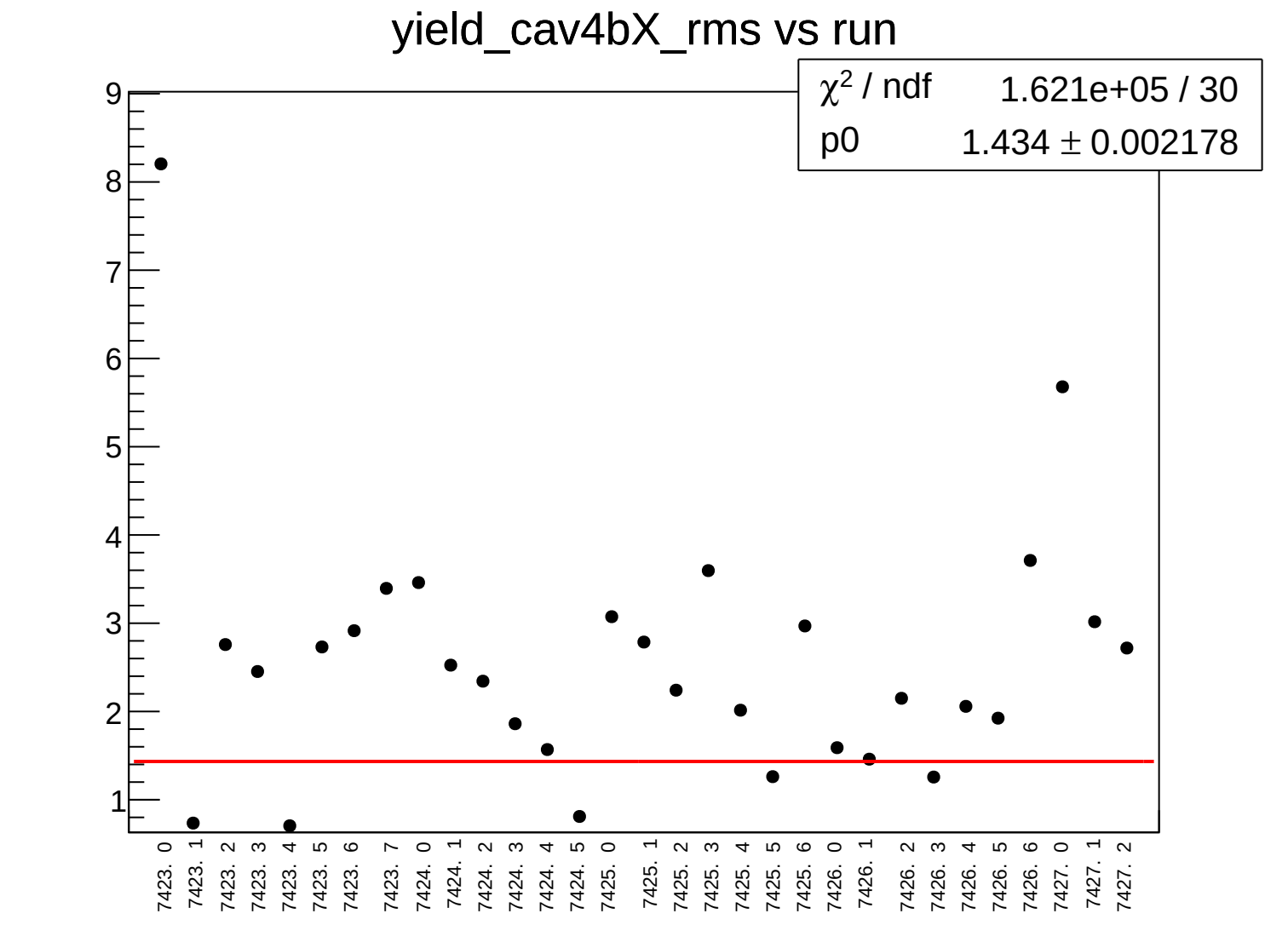

pull
Entries 31
Mean 64.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

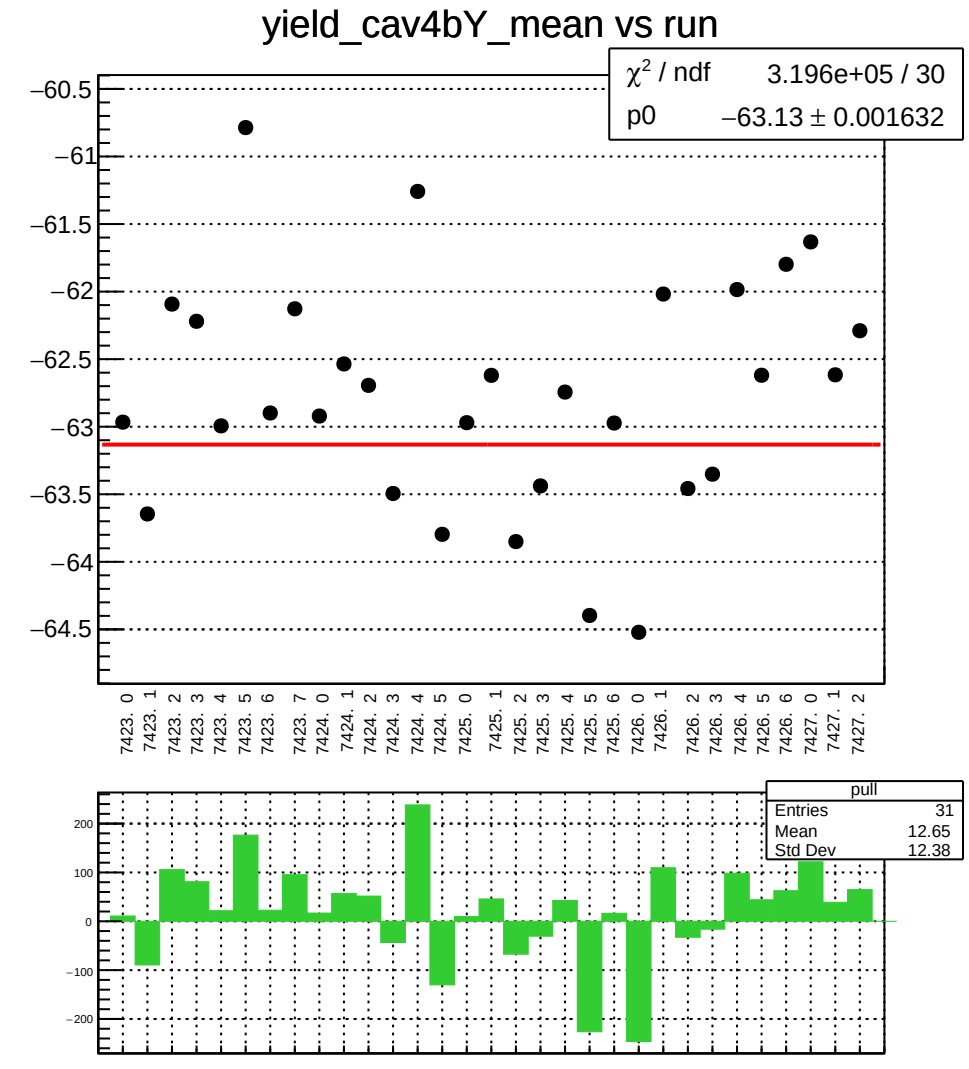

pull1D
Entries 31
Mean −0.02991
Std Dev 0.9394
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

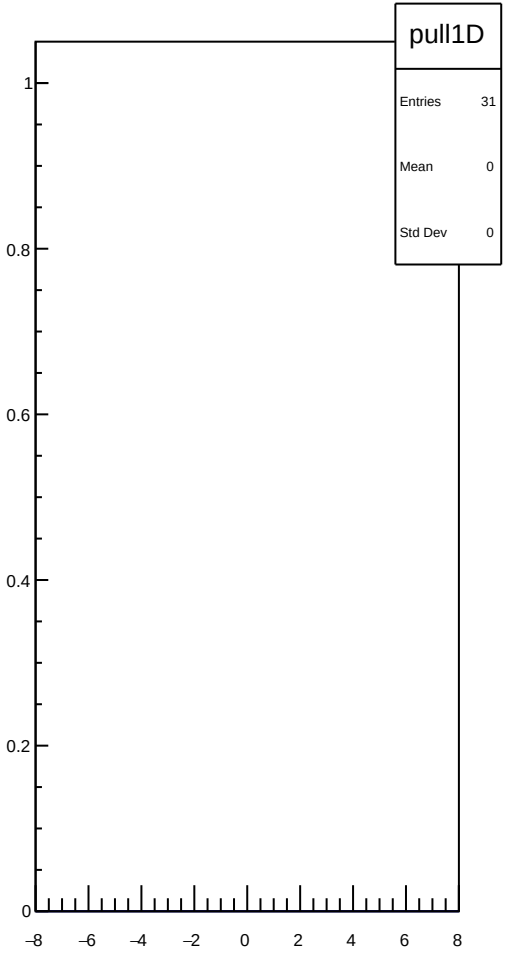

diff_bpmtargetdiffY_rms vs run
χ² / ndf 3704 / 30
p0 1036 ± 1.347
1200
1150
1100
1050
1000
950
900
850
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

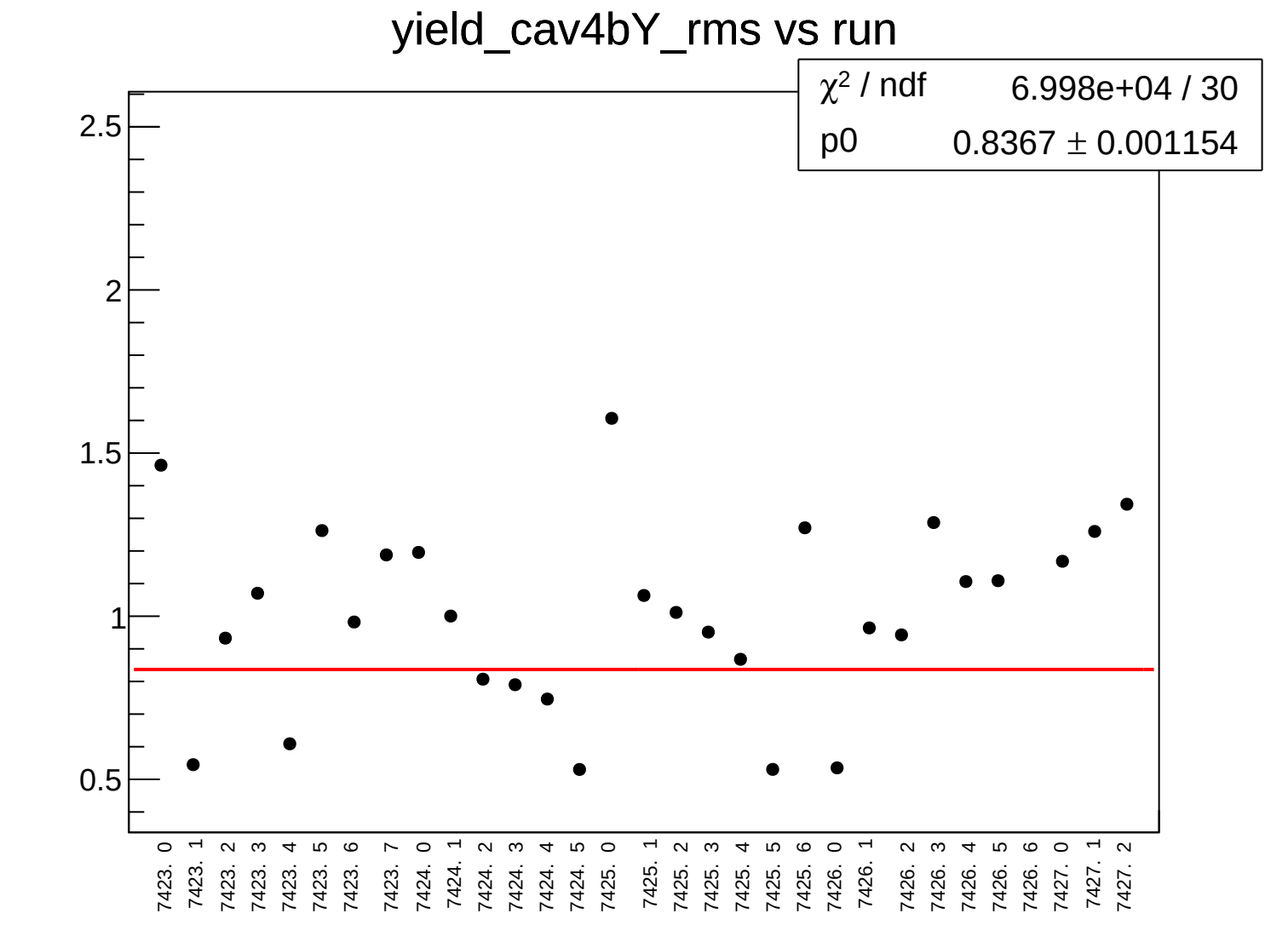

yield_cav4bX_mean vs run
χ² / ndf 3.684e+05 / 30
p0 −26.69 ± 0.00308
−18
−20
−22
−24
−26
−28
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.68
Std Dev 8.058
200
100
0
−100
−200

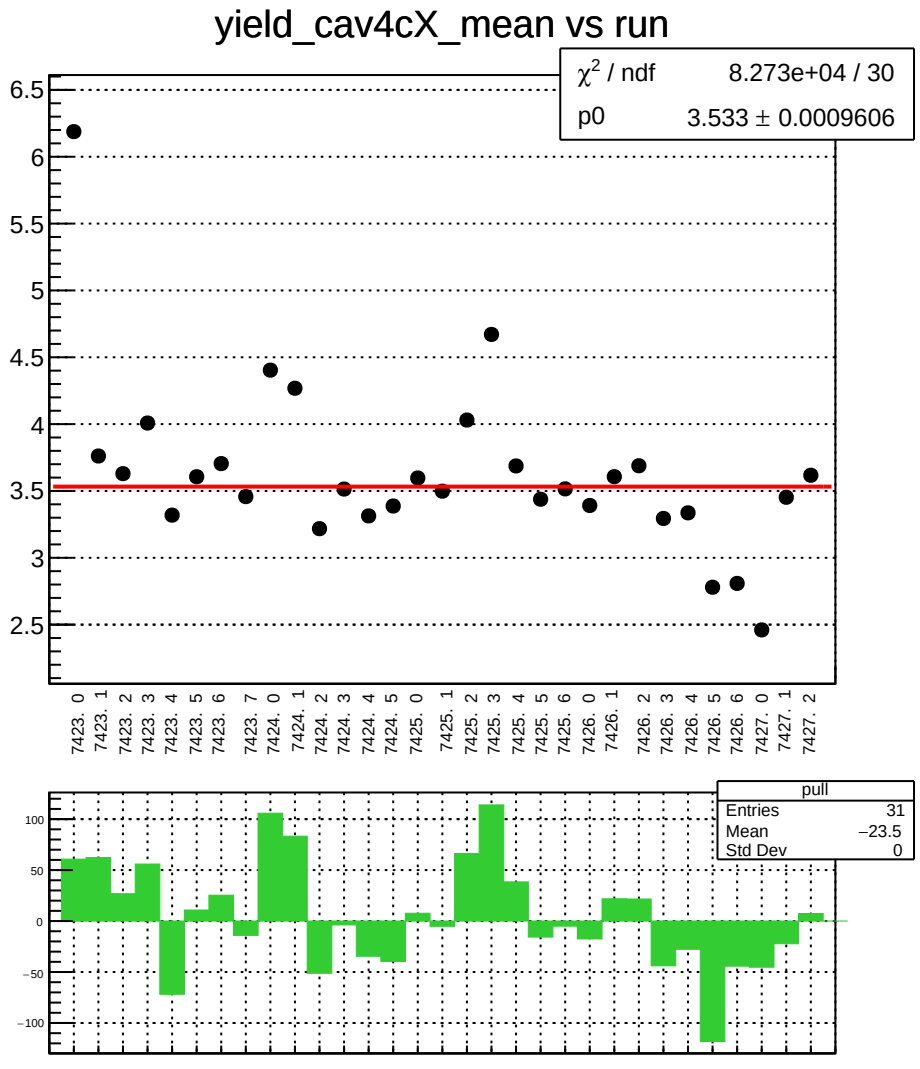

pull1D
Entries 31
Mean −4.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

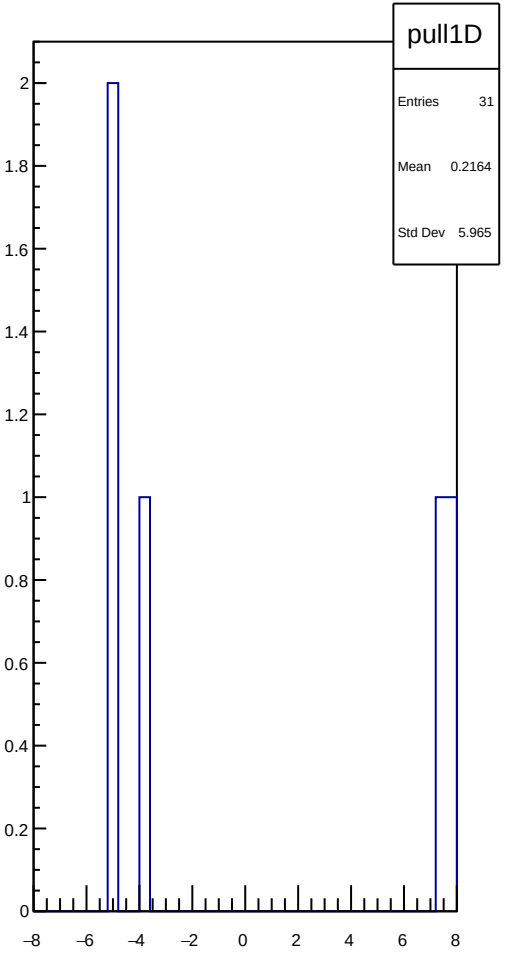

yield_cav4bX_rms vs run
χ^2 / ndf 1.621e+05 / 30
p0 1.434 ± 0.002178
9
8
7
6
5
4
3
2
1
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

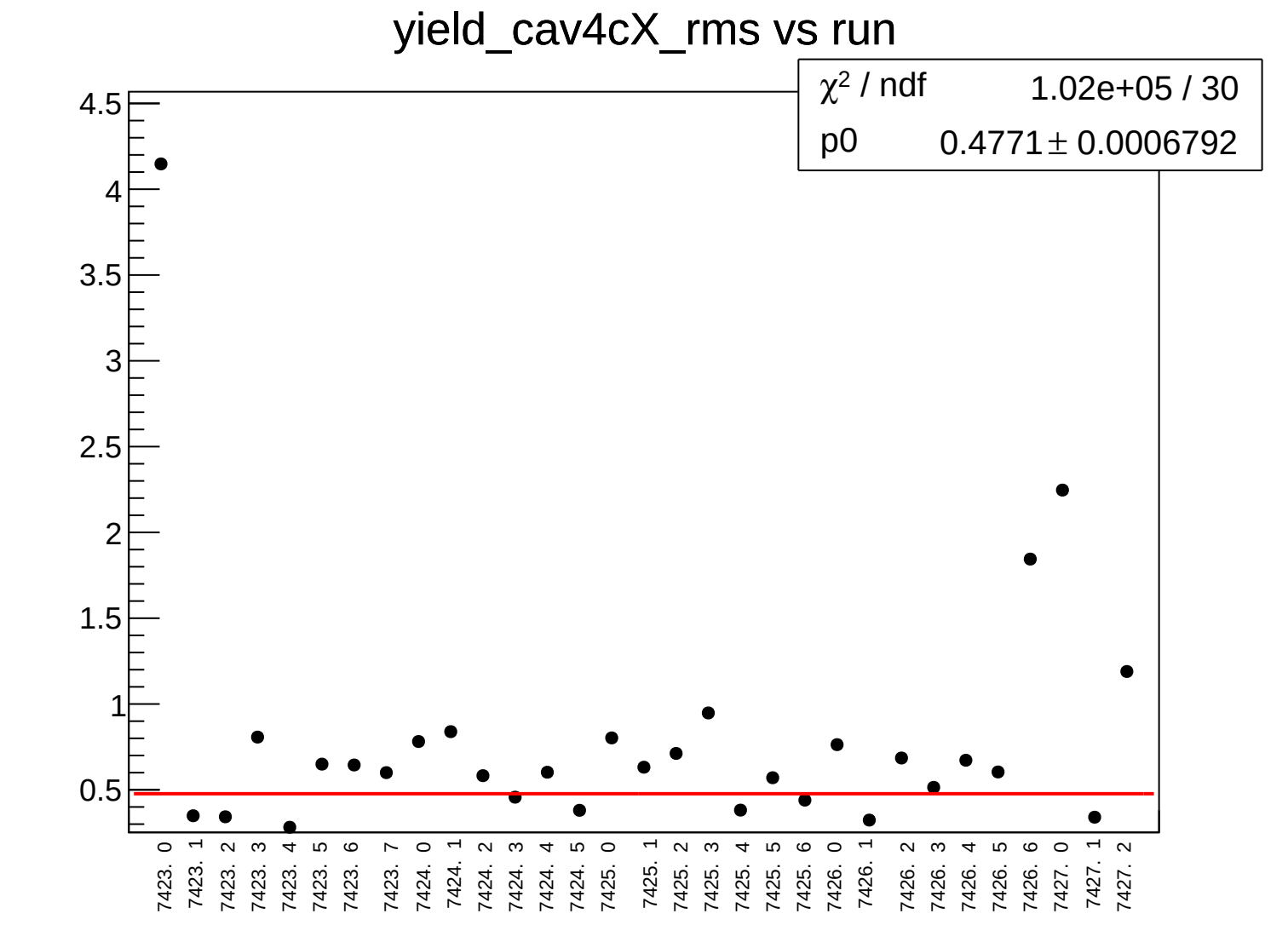

yield_cav4bY_mean vs run
χ² / ndf 3.196e+05 / 30
p0 −63.13 ± 0.001632
−60.5
−61
−61.5
−62
−62.5
−63
−63.5
−64
−64.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 12.65
Std Dev 12.38
200
100
0
−100
−200

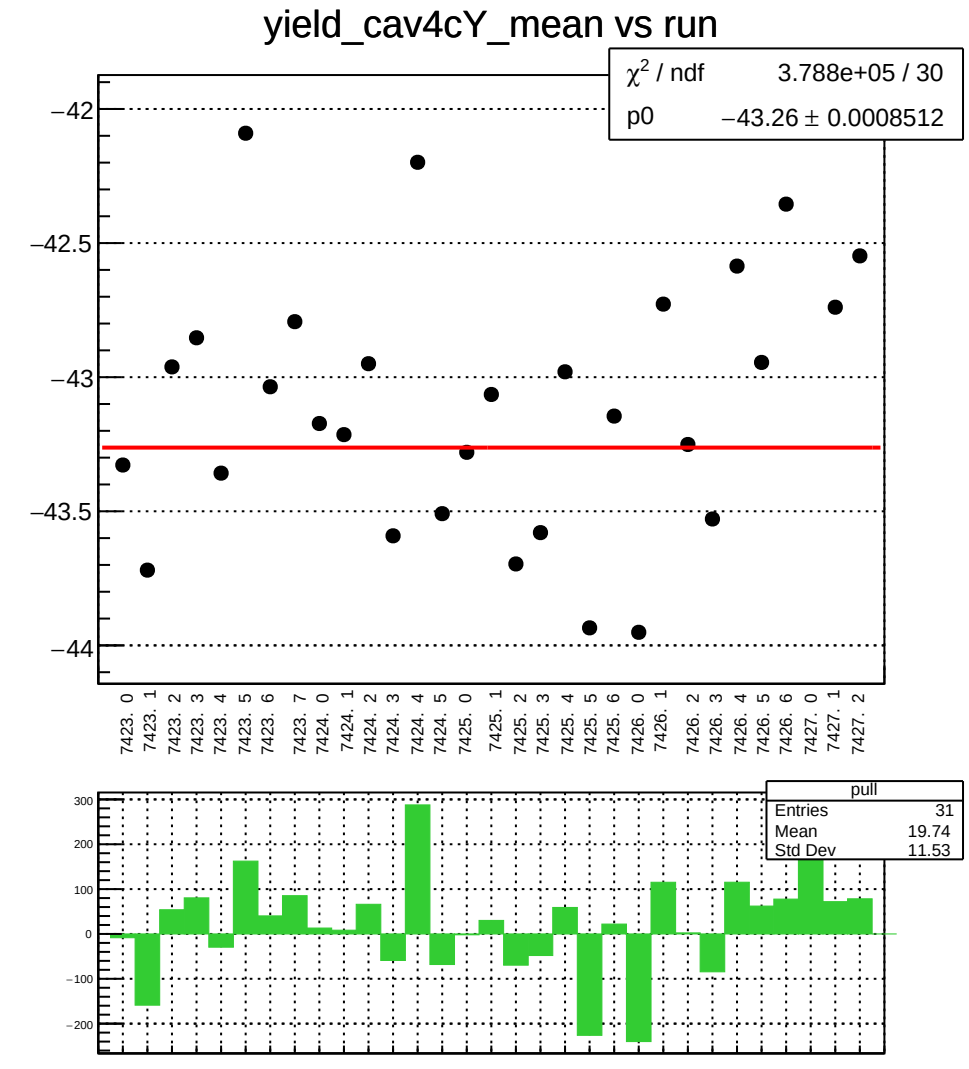

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

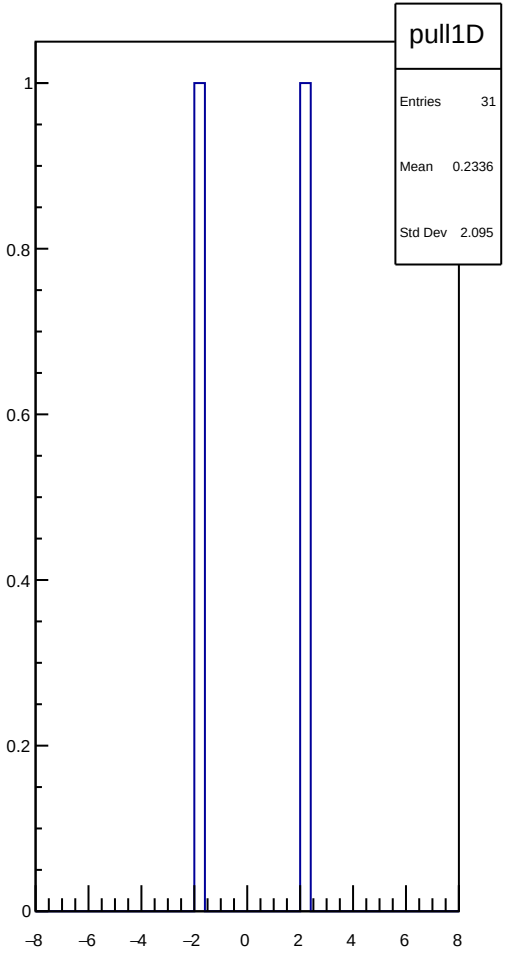

yield_cav4bY_rms vs run
χ² / ndf 6.998e+04 / 30
p0 0.8367 ± 0.001154
2.5
2
1.5
1
0.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

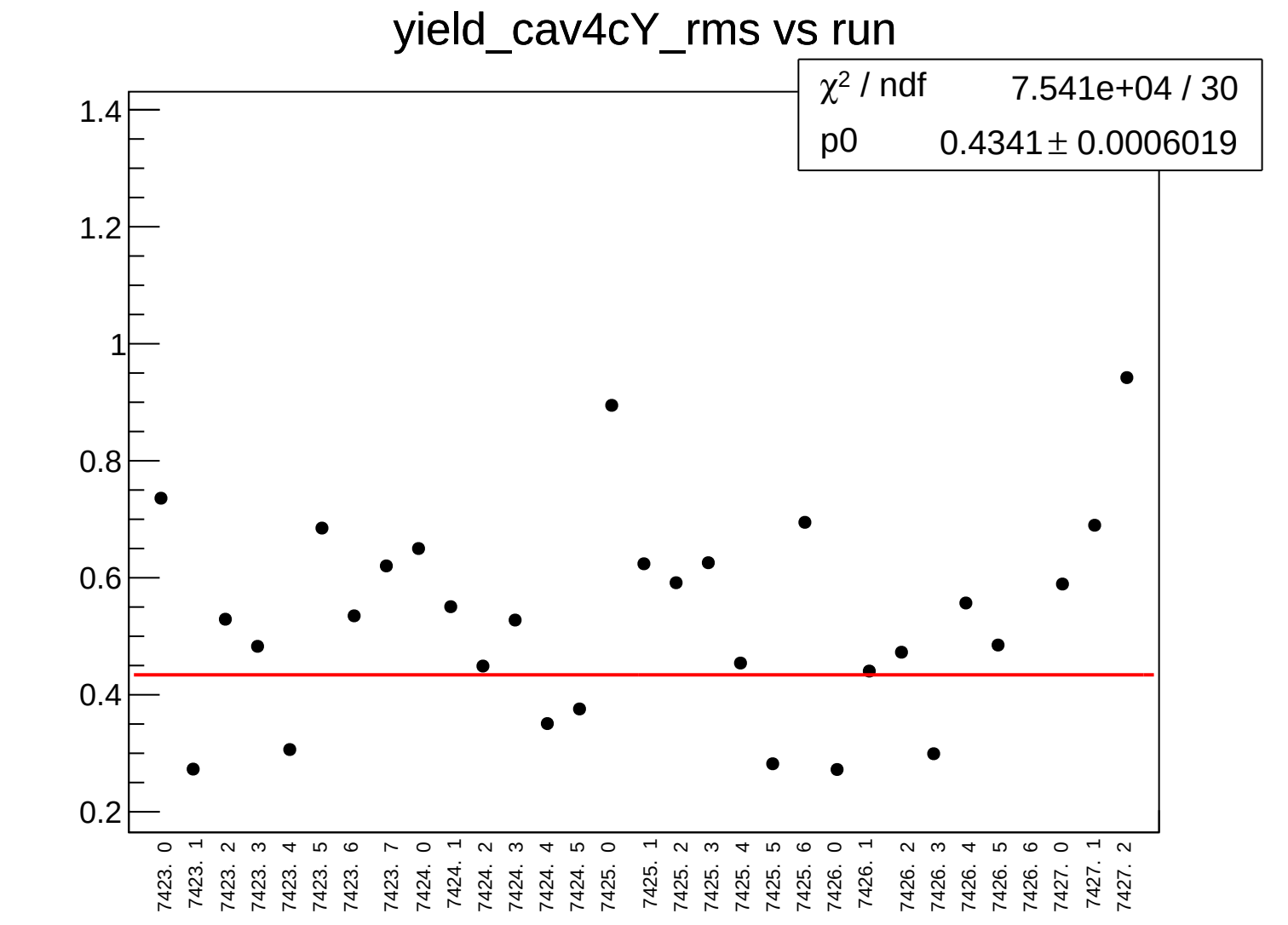

yield_cav4cX_mean vs run
χ² / ndf 8.273e+04 / 30
p0 3.533 ± 0.0009606
6.5
6
5.5
5
4.5
4
3.5
3
2.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −23.5
Std Dev 0
100
50
0
−50
−100

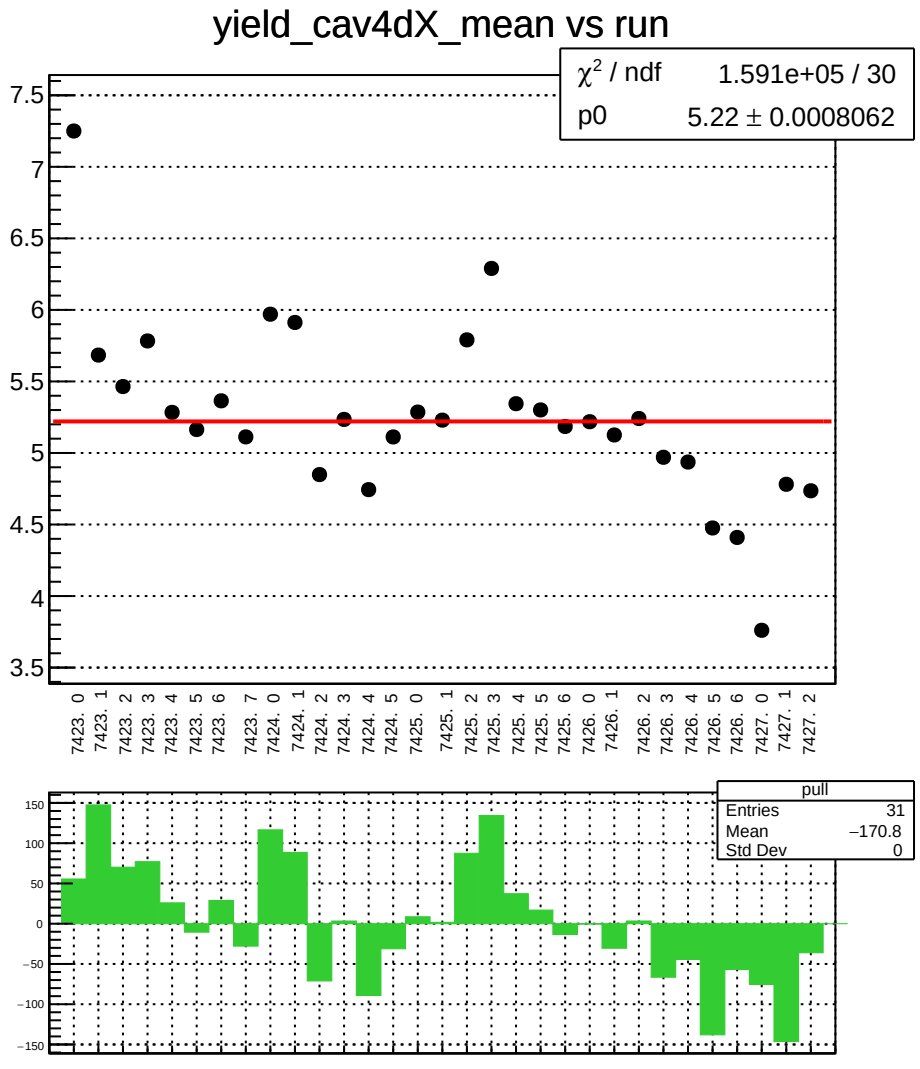

pull1D
Entries 31
Mean 0.2164
Std Dev 5.965
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

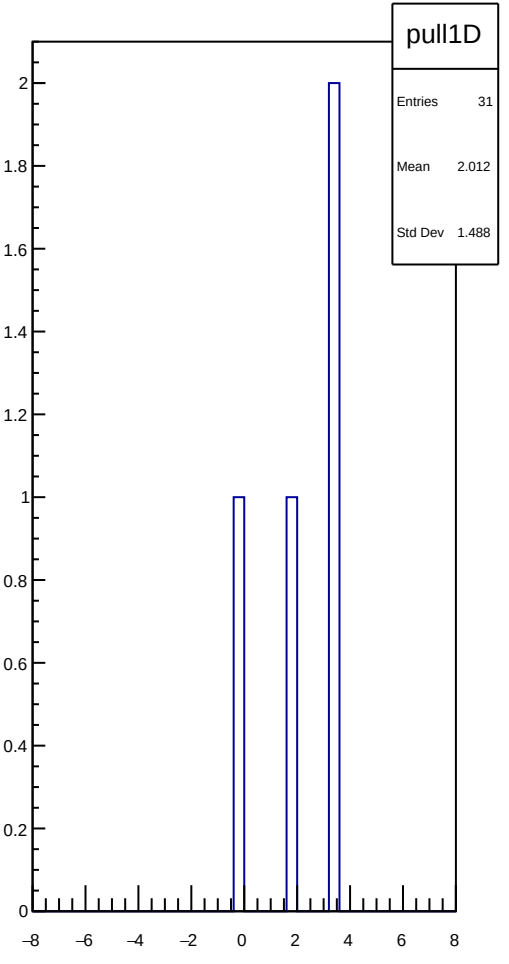

yield_cav4cX_rms vs run
χ² / ndf 1.02e+05 / 30
p0 0.4771 ± 0.0006792
4.5
4
3.5
3
2.5
2
1.5
1
0.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

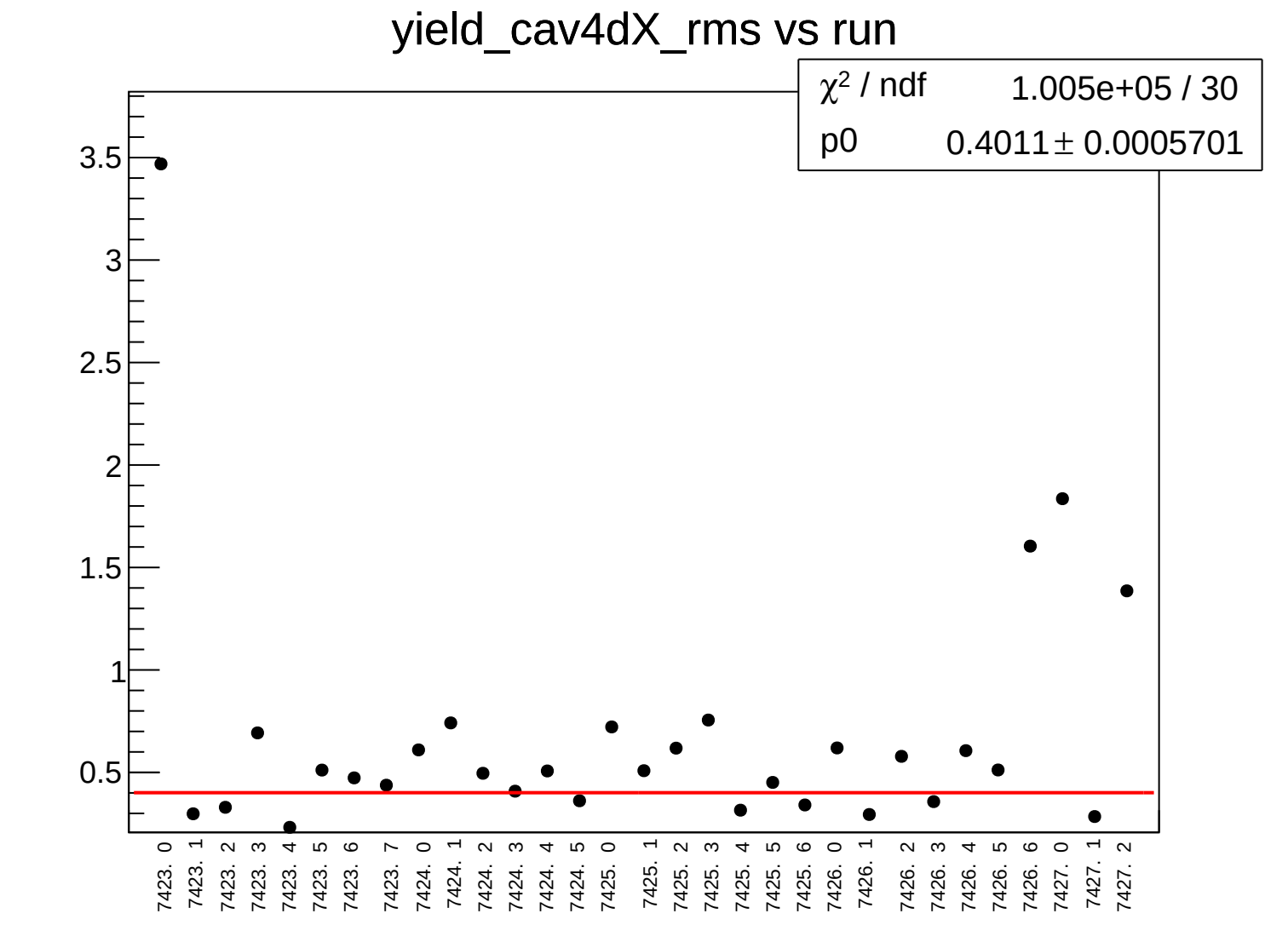

yield_cav4cY_mean vs run
χ² / ndf 3.788e+05 / 30
p0 −43.26 ± 0.0008512
−42
−42.5
−43
−43.5
−44
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 19.74
Std Dev 11.53
300
200
100
0
−100
−200

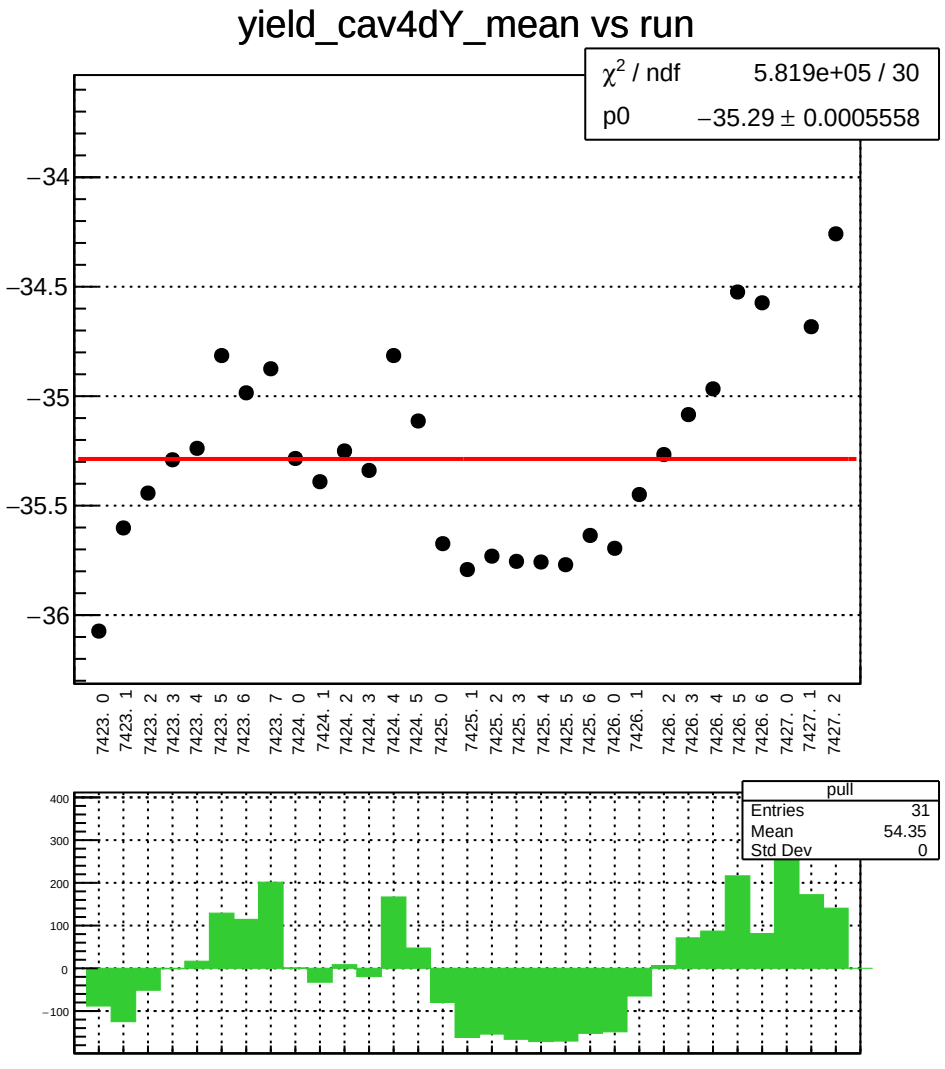

pull1D
Entries 31
Mean 0.2336
Std Dev 2.095
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

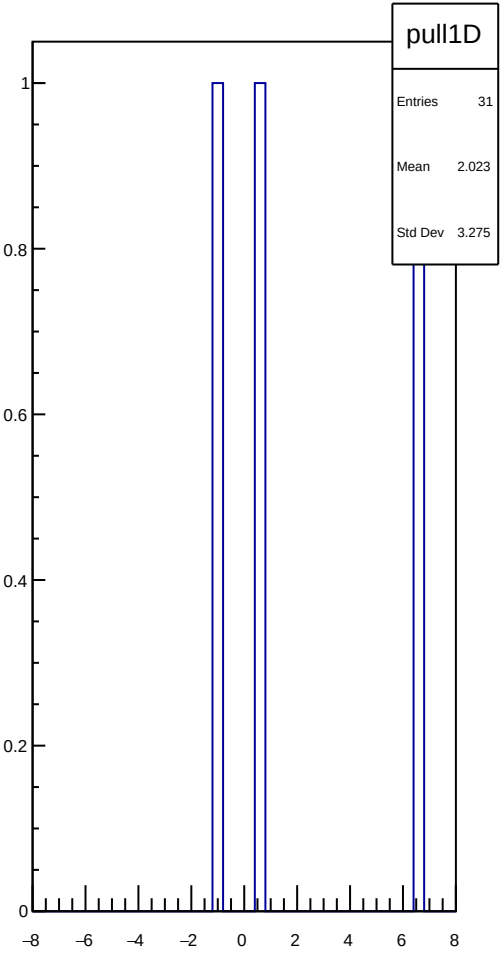

yield_cav4cY_rms vs run
χ² / ndf 7.541e+04 / 30
p0 0.4341 ± 0.0006019
1.4
1.2
1
0.8
0.6
0.4
0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

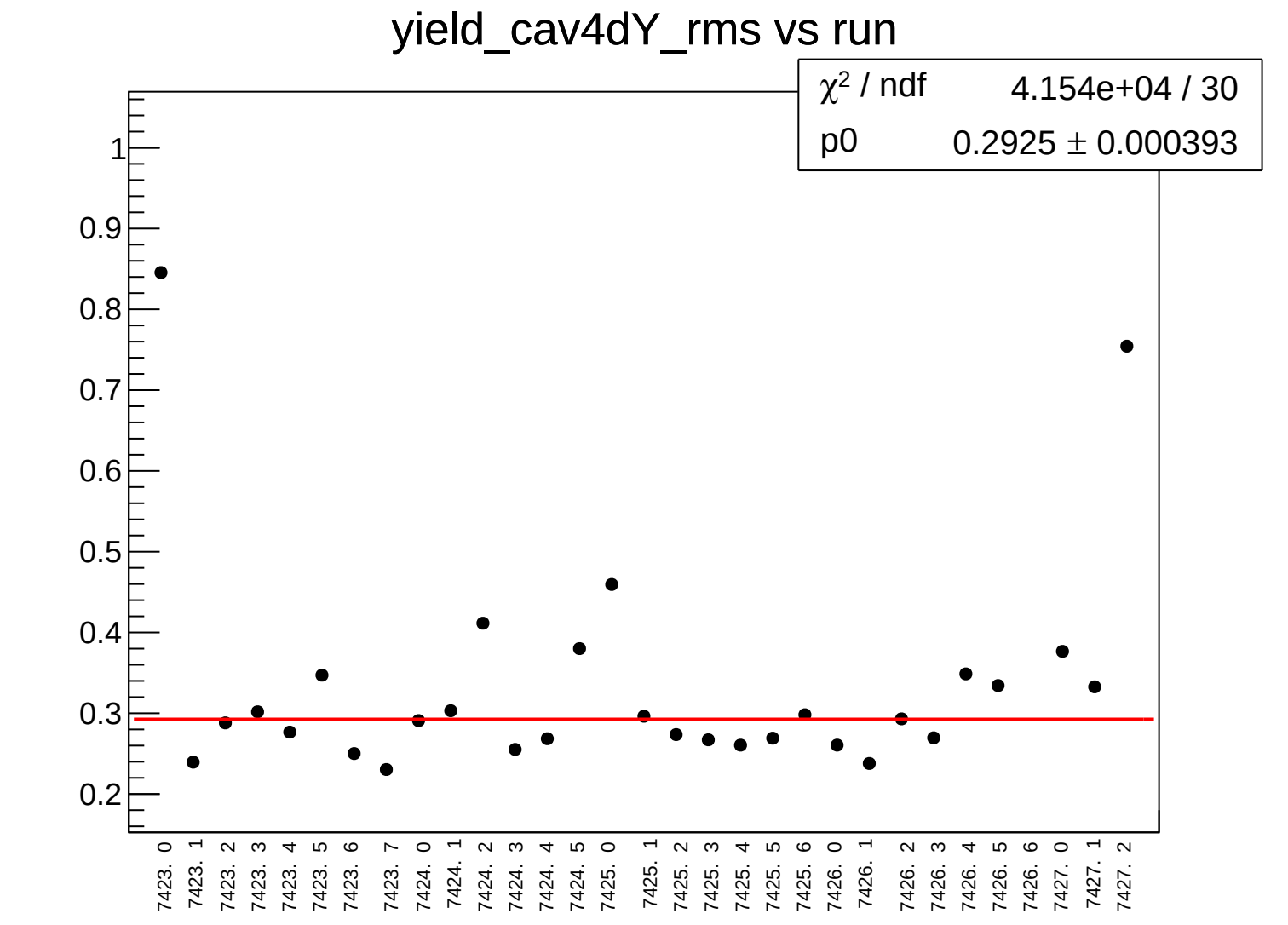

yield_cav4dX_mean vs run
χ² / ndf 1.591e+05 / 30
p0 5.22 ± 0.0008062
7.5
7
6.5
6
5.5
5
4.5
4
3.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −170.8
Std Dev 0
150
100
50
0
−50
−100
−150

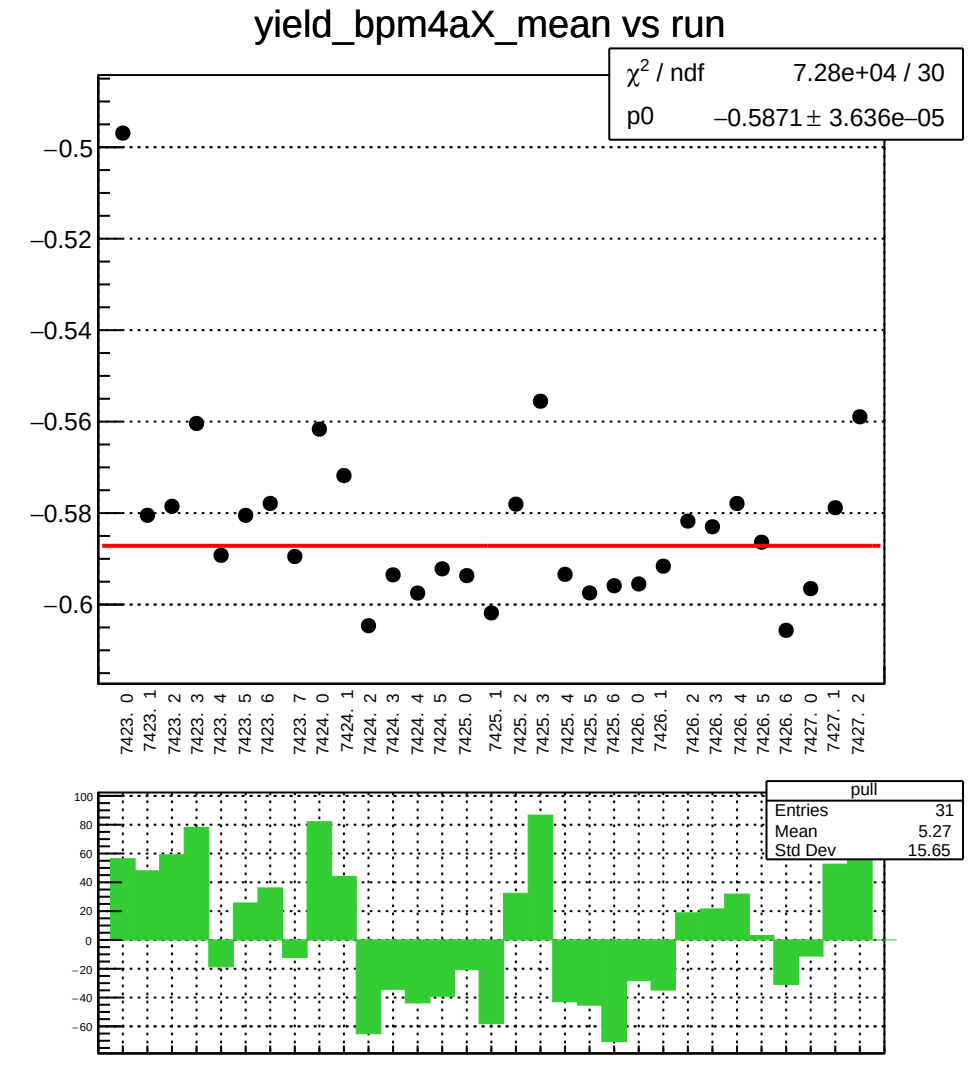

pull1D
Entries 31
Mean 2.012
Std Dev 1.488
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

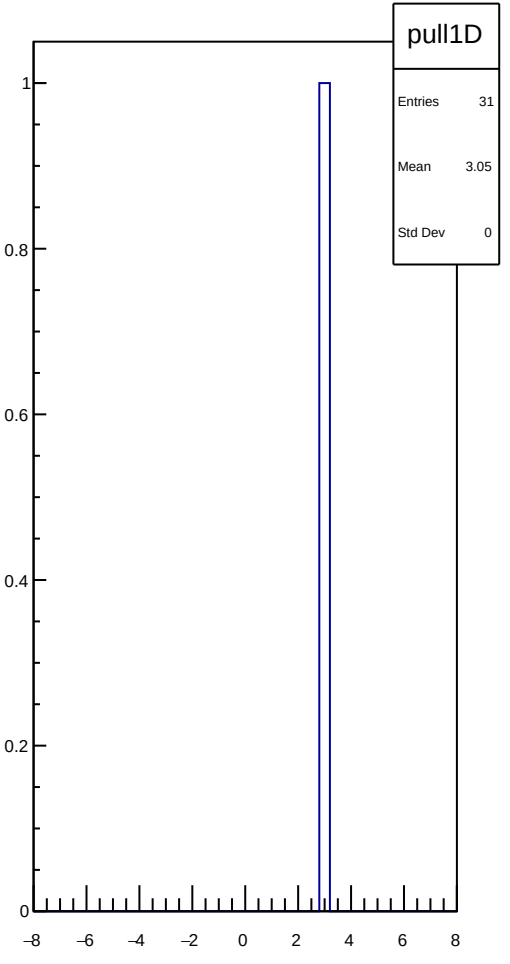

yield_cav4dX_rms vs run
χ² / ndf 1.005e+05 / 30
p0 0.4011 ± 0.0005701
3.5
3
2.5
2
1.5
1
0.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

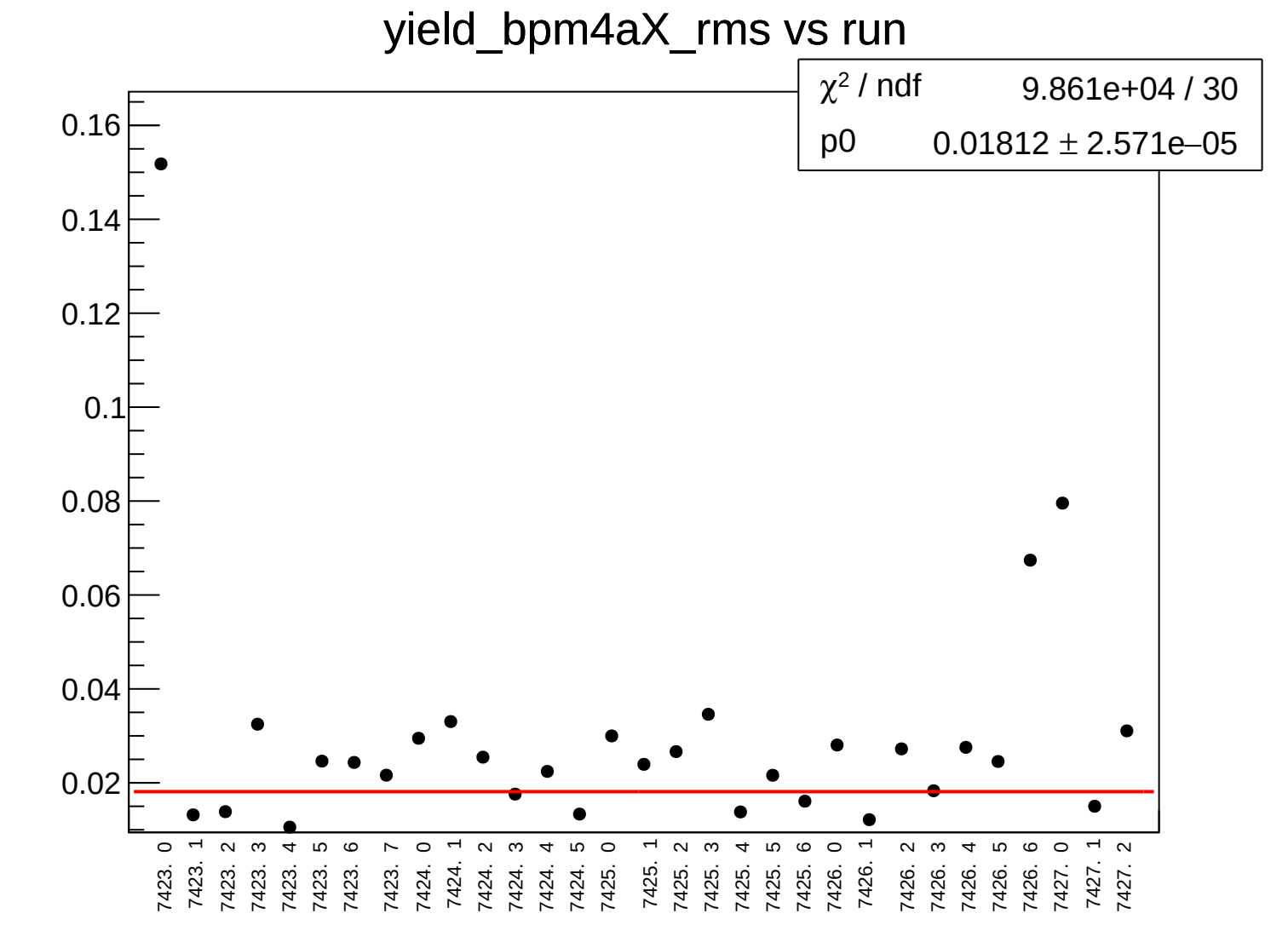

yield_cav4dY_mean vs run
χ² / ndf 5.819e+05 / 30
p0 −35.29 ± 0.0005558
−34
−34.5
−35
−35.5
−36
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 54.35
Std Dev 0
400
300
200
100
0
−100

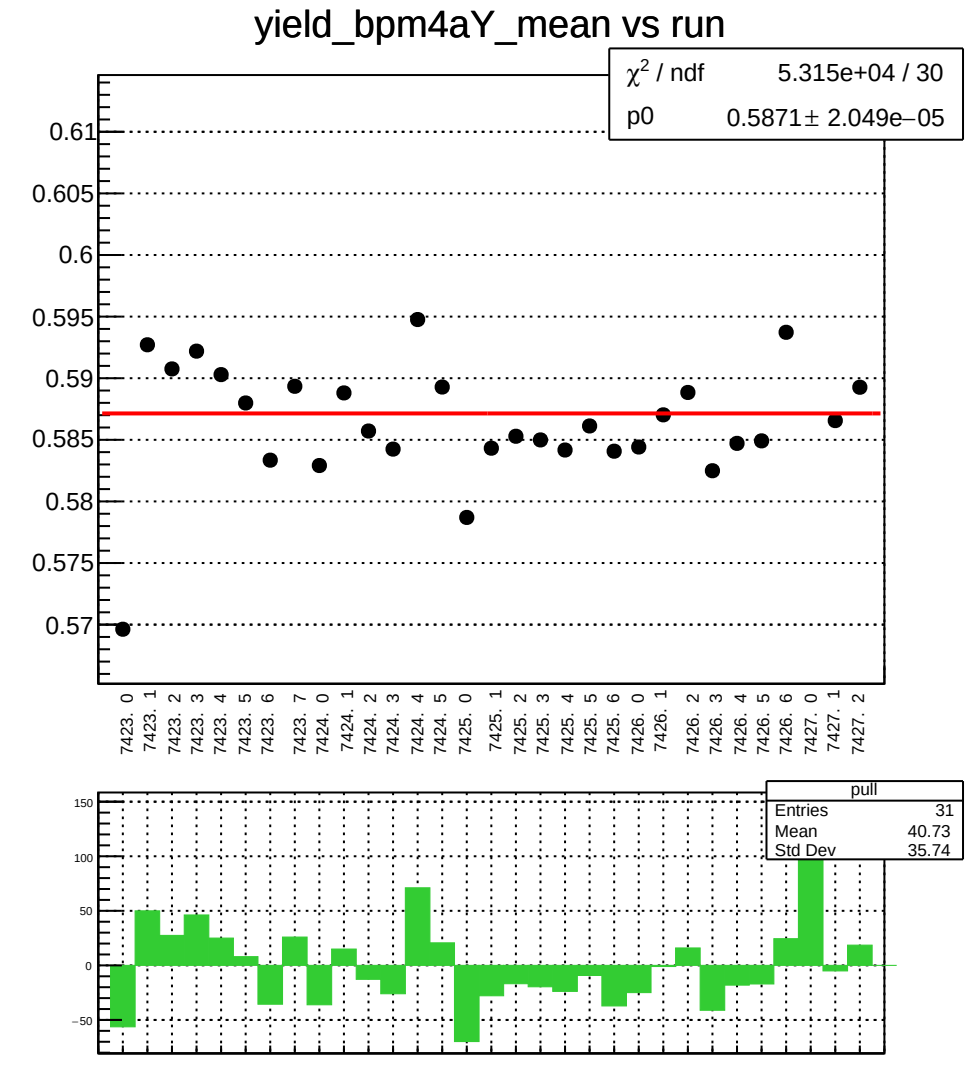

pull1D
Entries 31
Mean 2.023
Std Dev 3.275
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

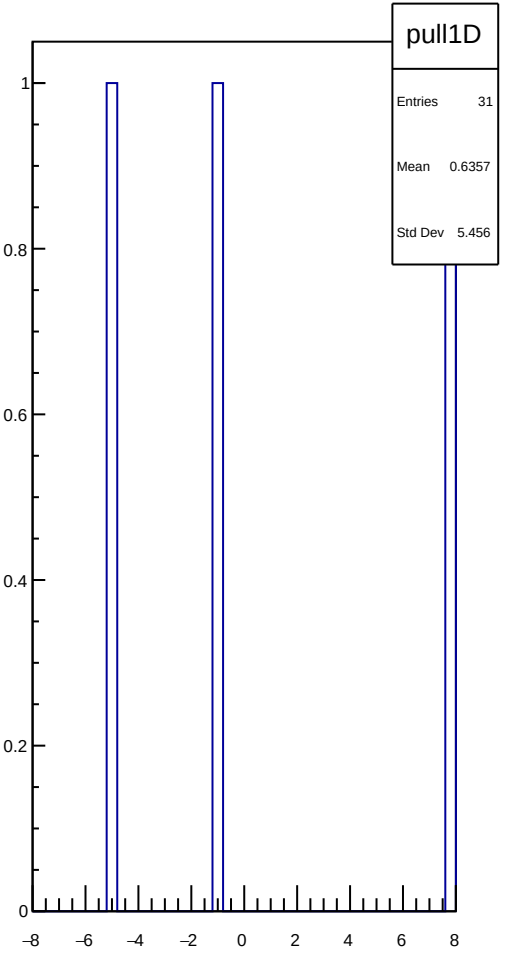

yield_cav4dY_rms vs run
χ² / ndf 4.154e+04 / 30
p0 0.2925 ± 0.000393
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

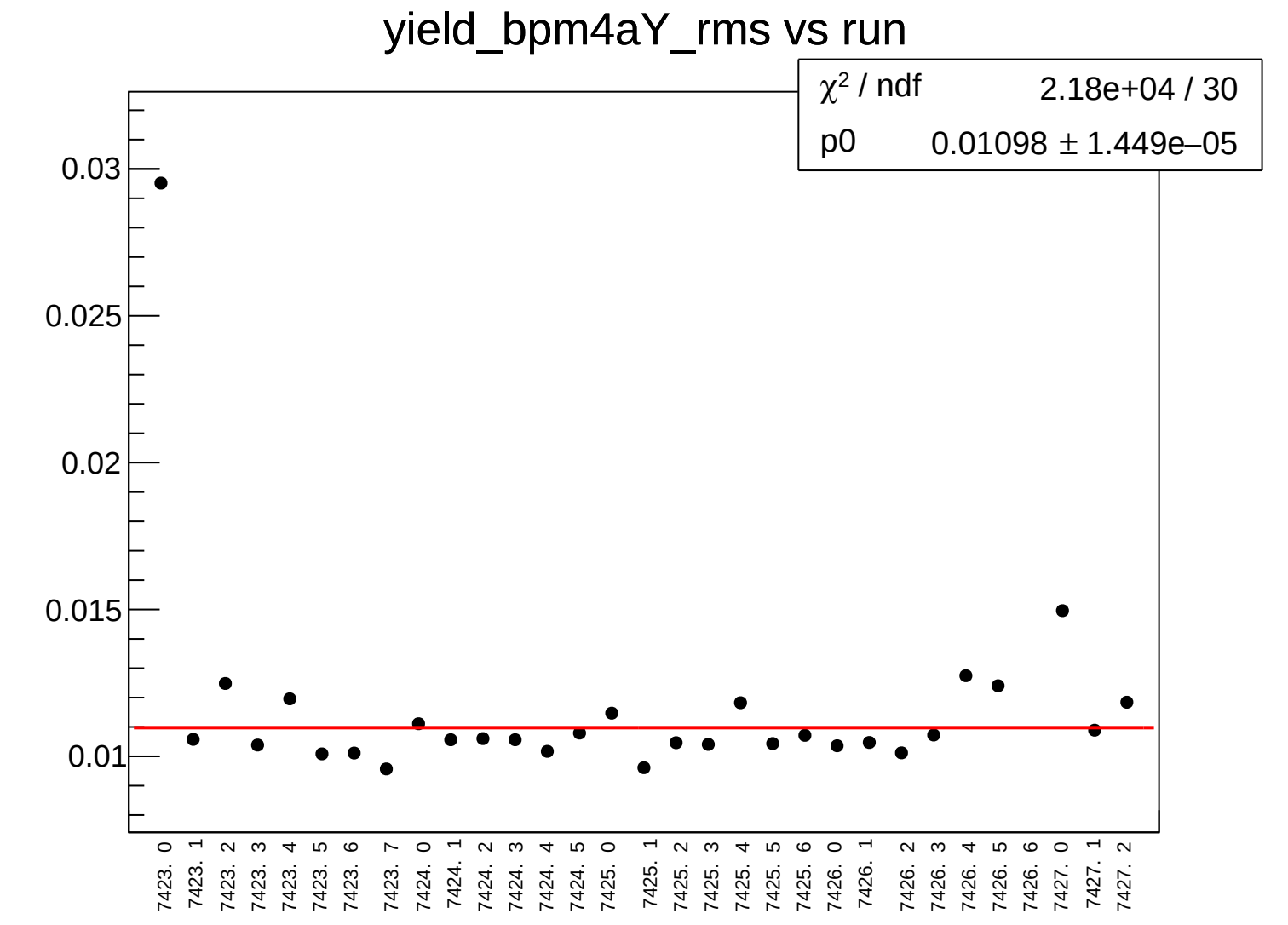

yield_bpm4aX_mean vs run
χ² / ndf 7.28e+04 / 30
p0 −0.5871 ± 3.636e−05
−0.5
−0.52
−0.54
−0.56
−0.58
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 5.27
Std Dev 15.65
100
80
60
40
20
0
−20
−40
−60

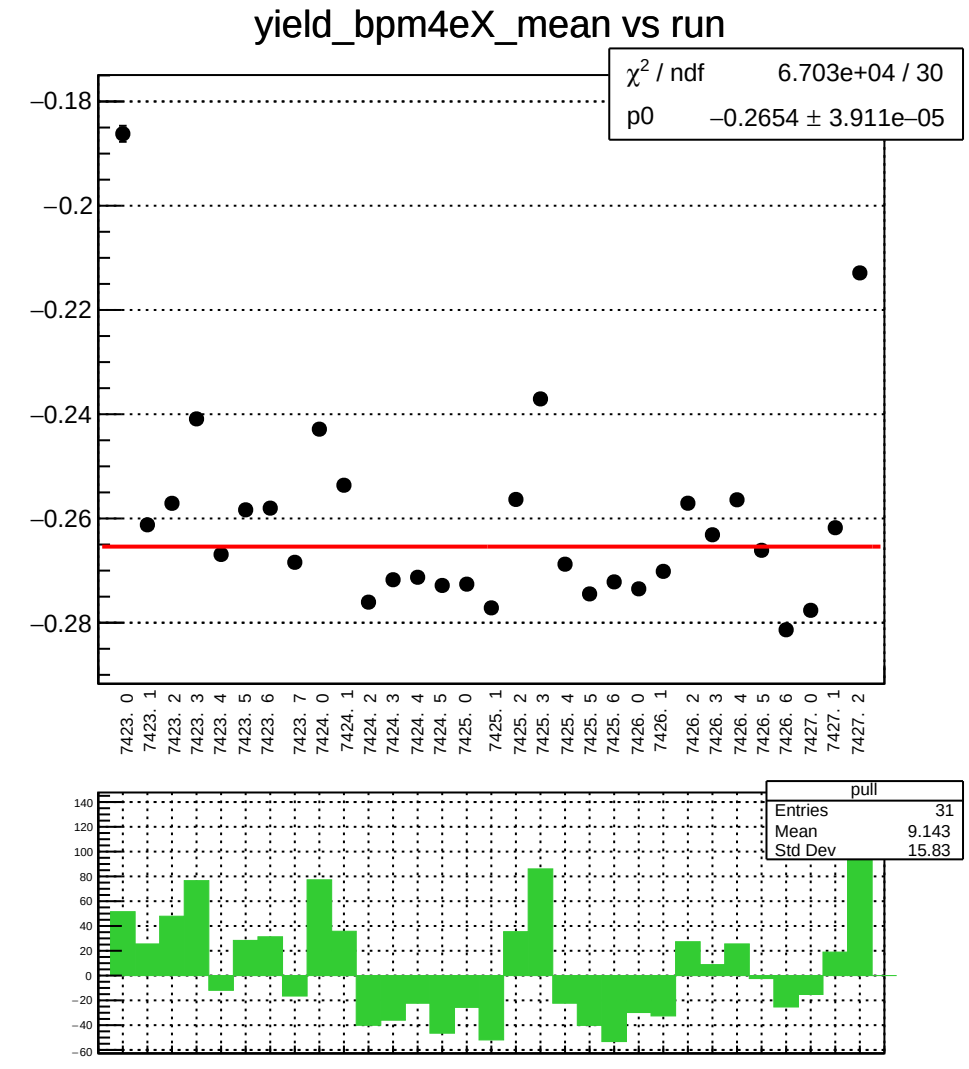

pull1D
Entries 31
Mean 3.05
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

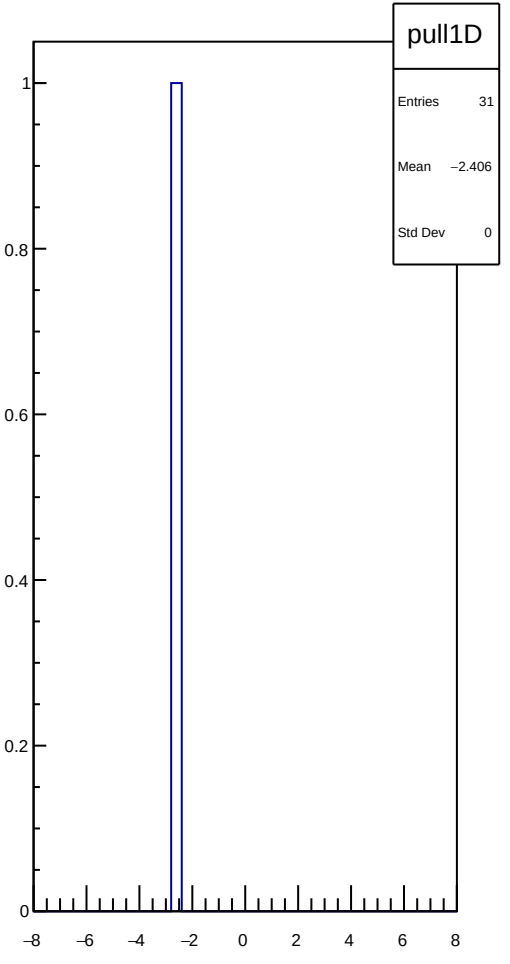

yield_bpm4aX_rms vs run
χ² / ndf 9.861e+04 / 30
p0 0.01812 ± 2.571e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

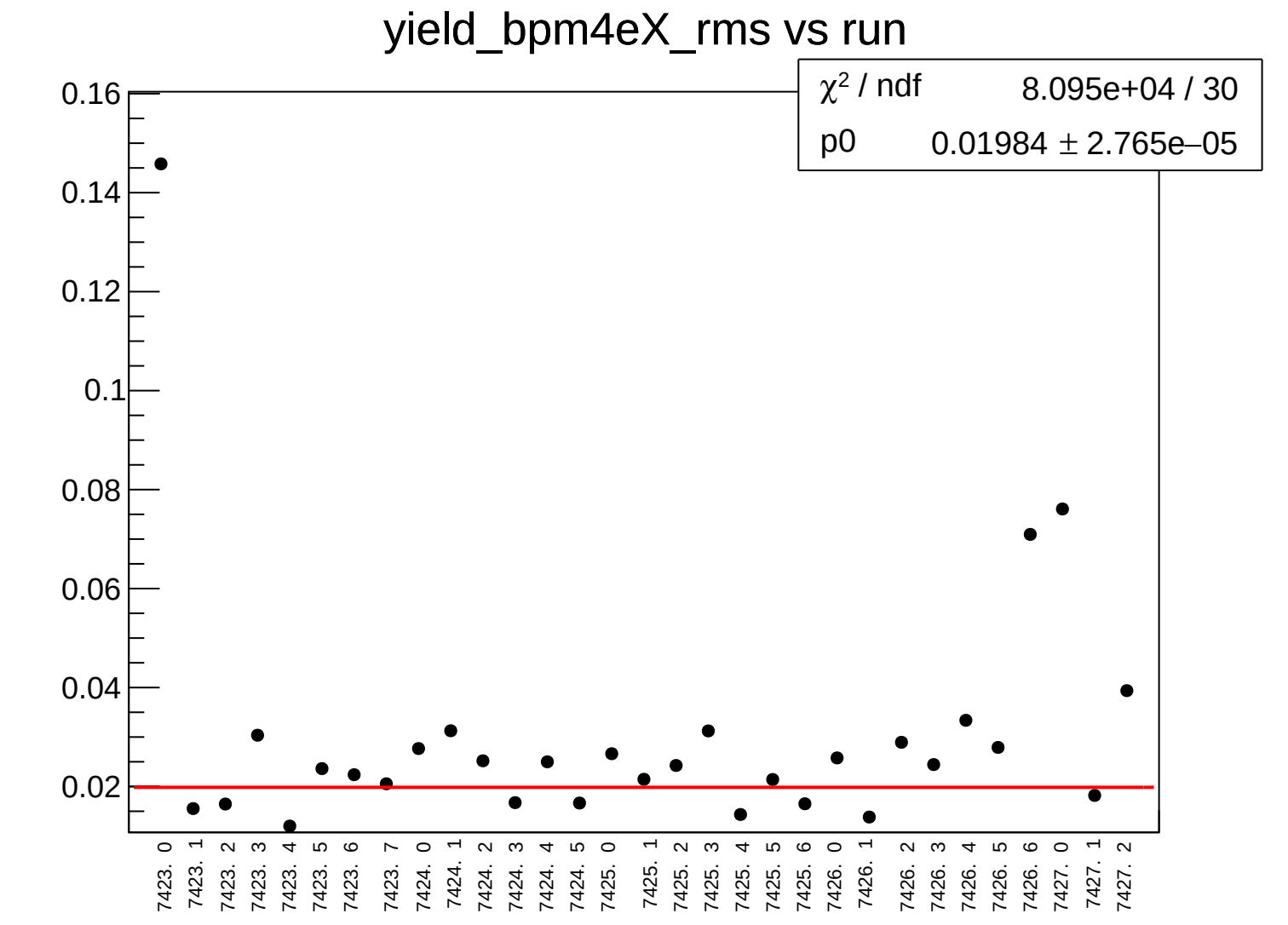

yield_bpm4aY_mean vs run
χ² / ndf 5.315e+04 / 30
p0 0.5871 ± 2.049e−05
0.61
0.605
0.6
0.595
0.59
0.585
0.58
0.575
0.57
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 40.73
Std Dev 35.74
150
100
50
0
−50

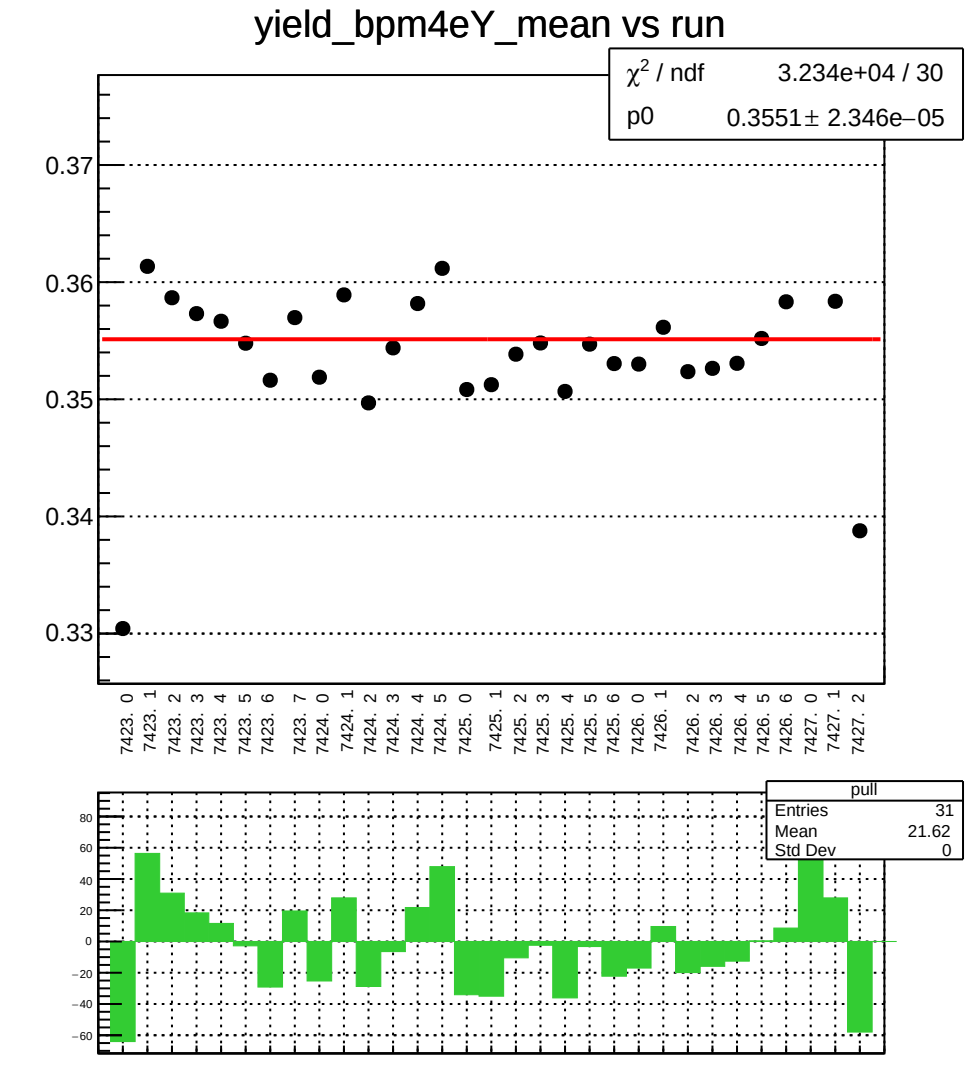

pull1D
Entries 31
Mean 0.6357
Std Dev 5.456
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

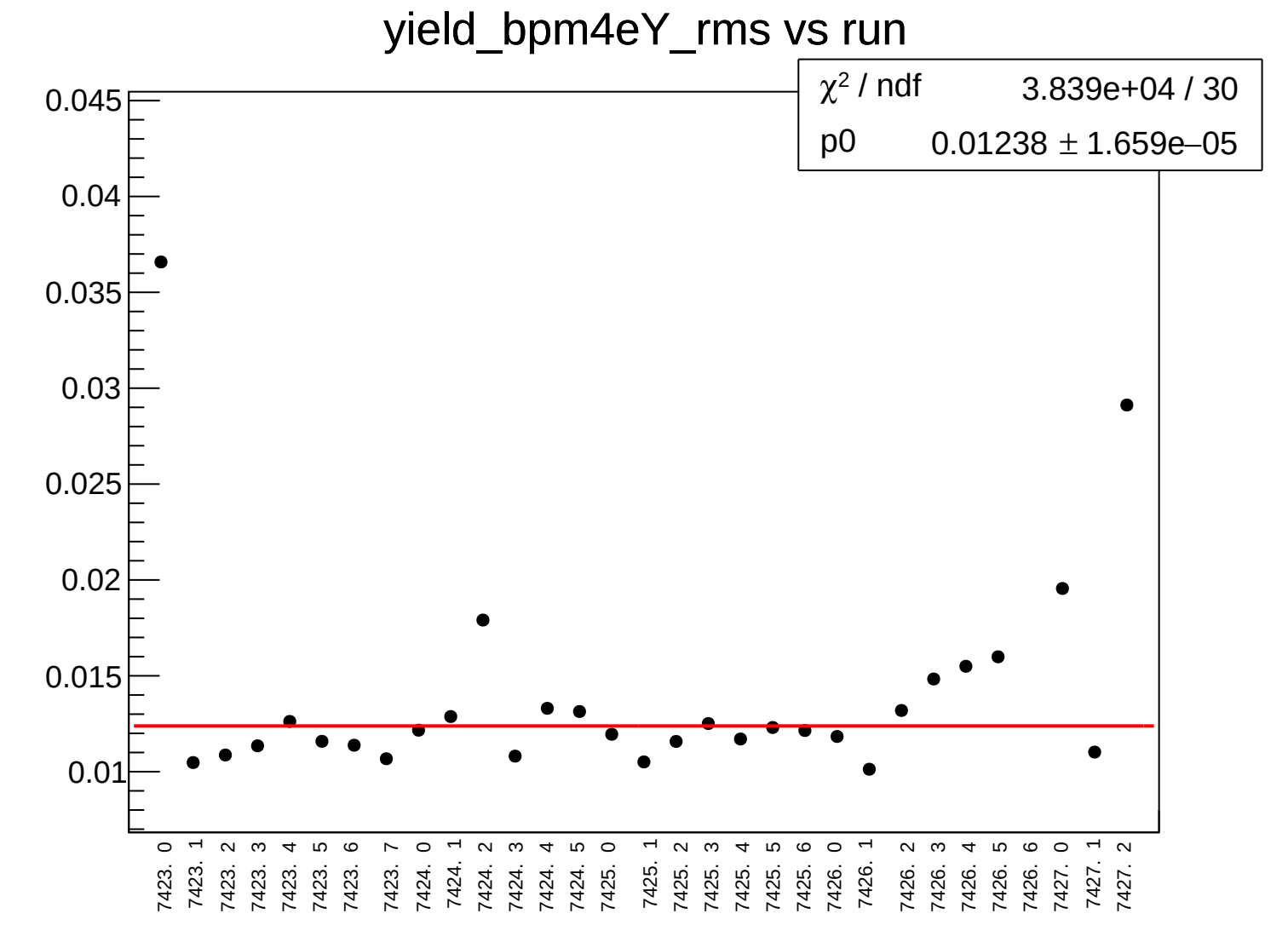

yield_bpm4aY_rms vs run
χ² / ndf 2.18e+04 / 30
p0 0.01098 ± 1.449e−05
0.03
0.025
0.02
0.015
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

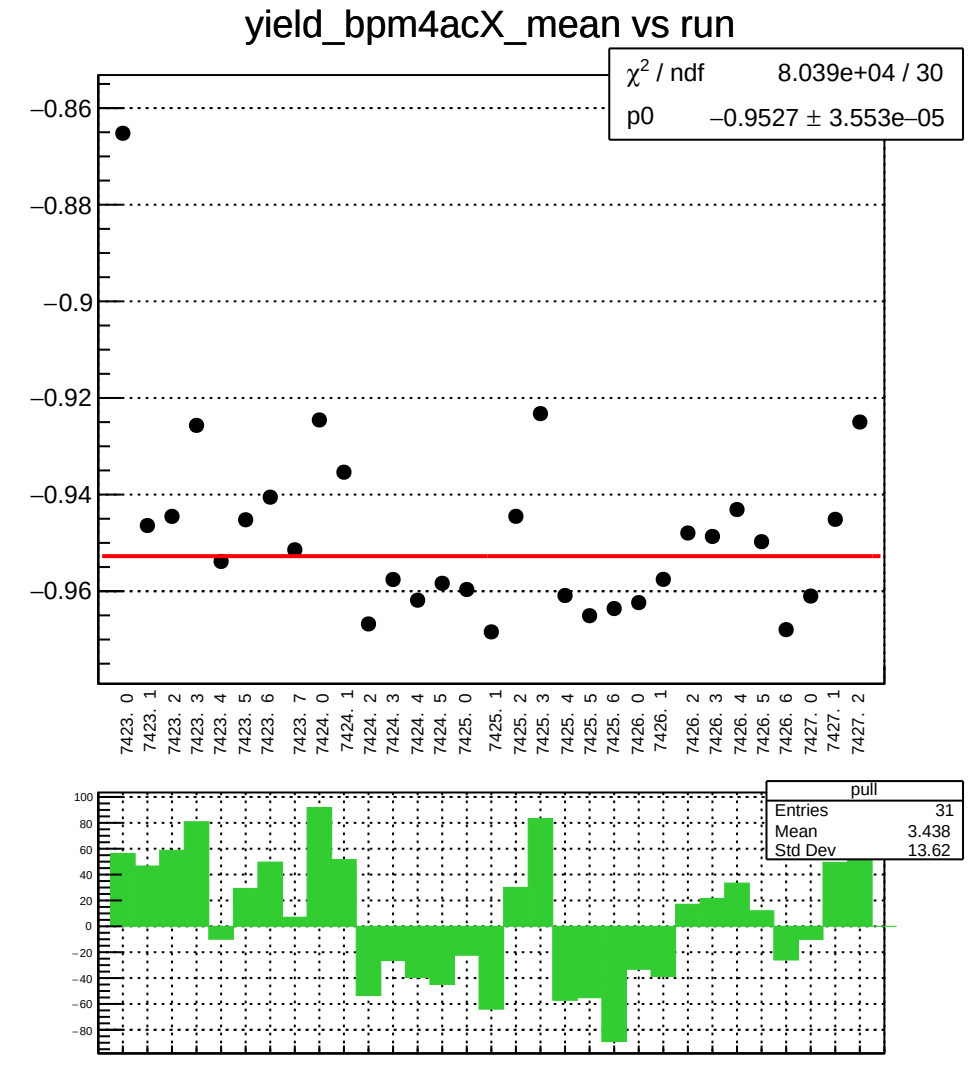

yield_bpm4eX_mean vs run
χ² / ndf 6.703e+04 / 30
p0 −0.2654 ± 3.911e−05
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 9.143
Std Dev 15.83
140
120
100
80
60
40
20
0
−20
−40
−60

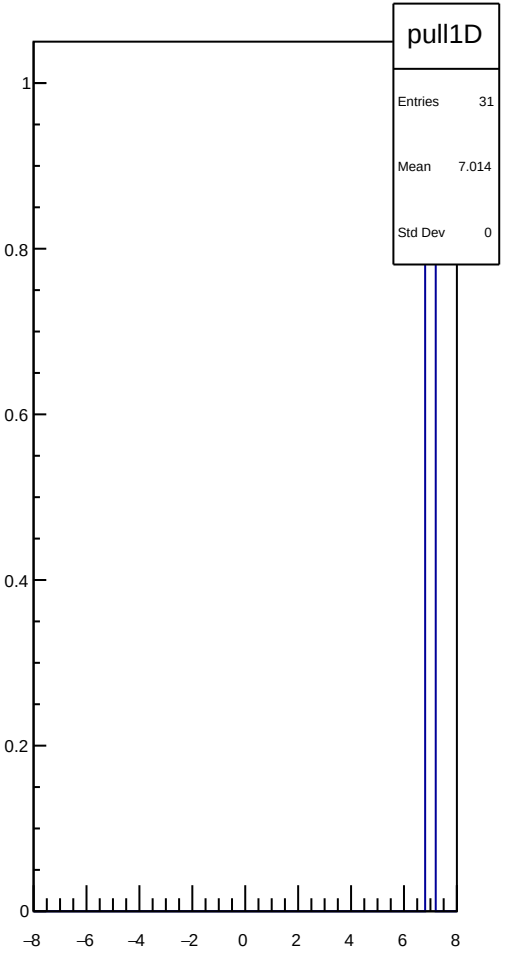

pull1D
Entries 31
Mean −2.406
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

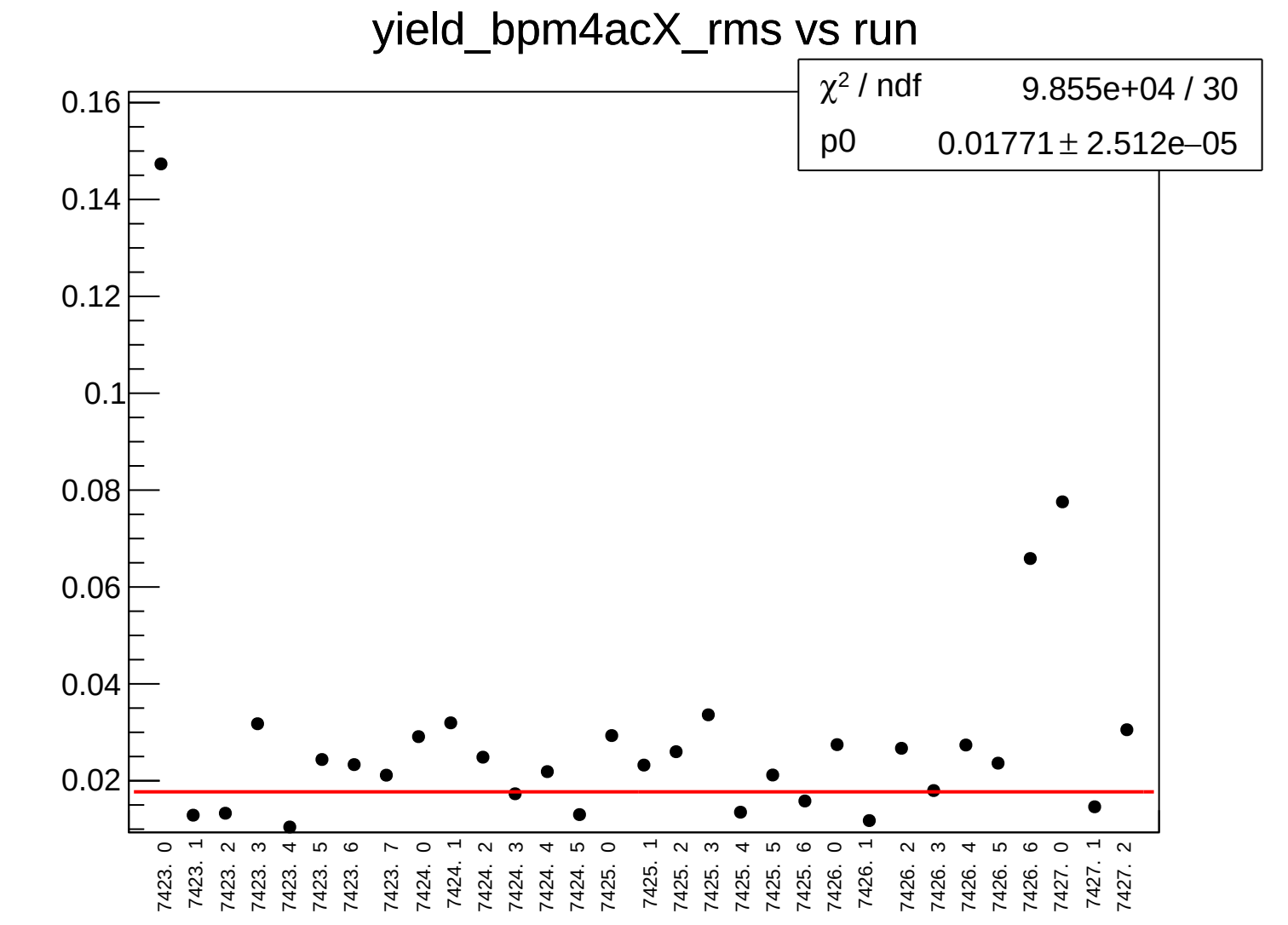

yield_bpm4eX_rms vs run
χ² / ndf 8.095e+04 / 30
p0 0.01984 ± 2.765e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

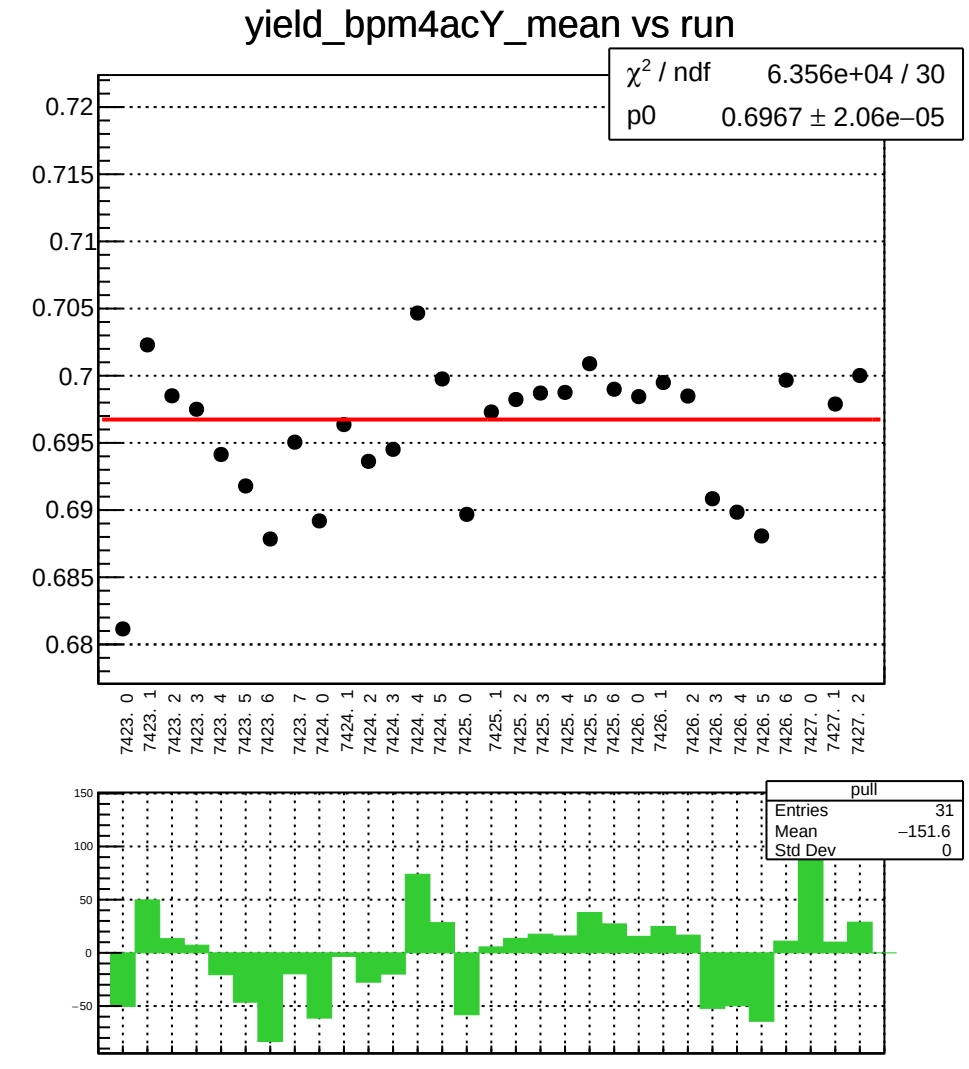

yield_bpm4eY_mean vs run
χ² / ndf 3.234e+04 / 30
p0 0.3551 ± 2.346e−05
0.37
0.36
0.35
0.34
0.33
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 21.62
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 31
Mean −2.887
Std Dev 2.189
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

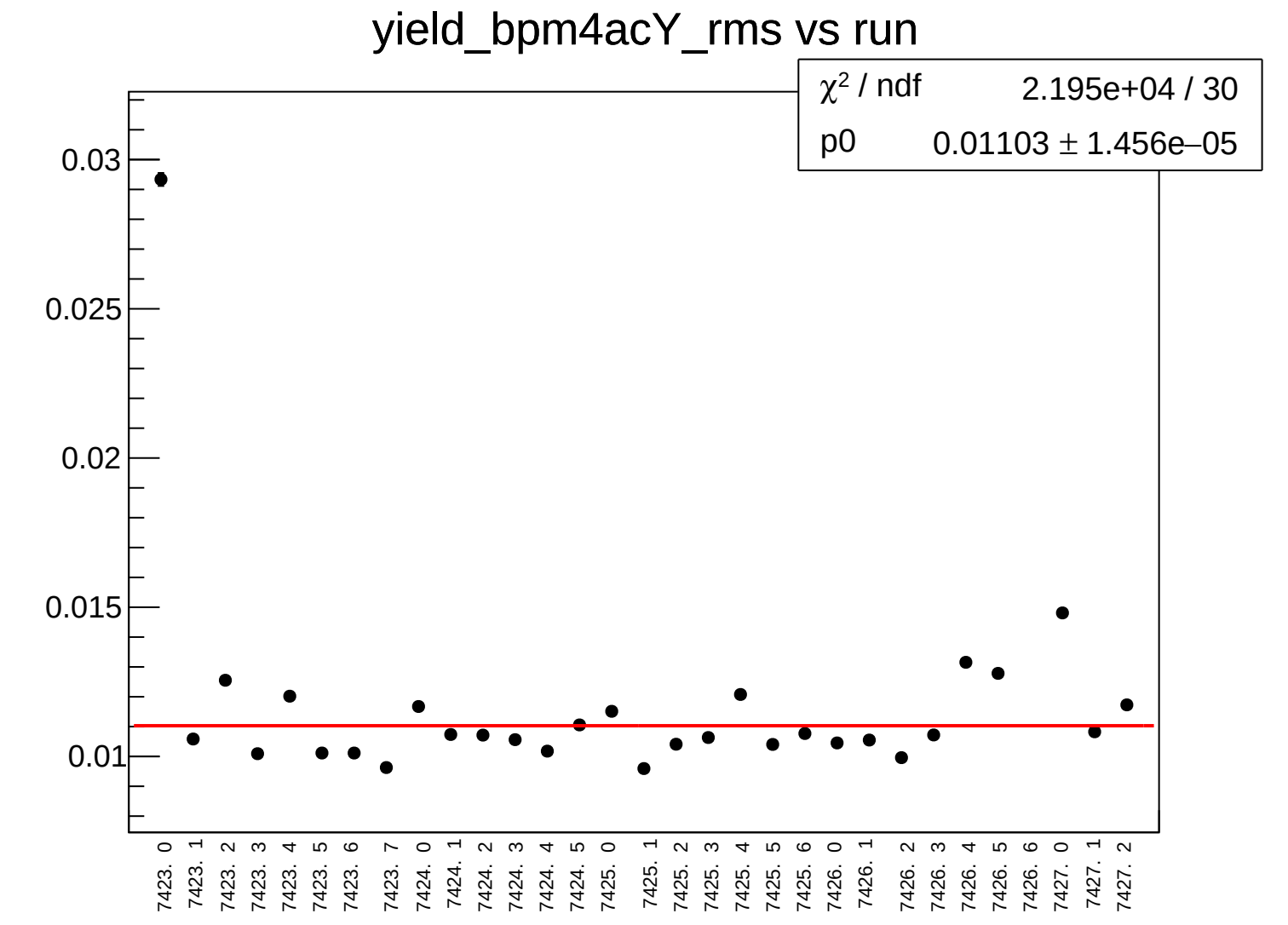

yield_bpm4eY_rms vs run
χ² / ndf 3.839e+04 / 30
p0 0.01238 ± 1.659e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

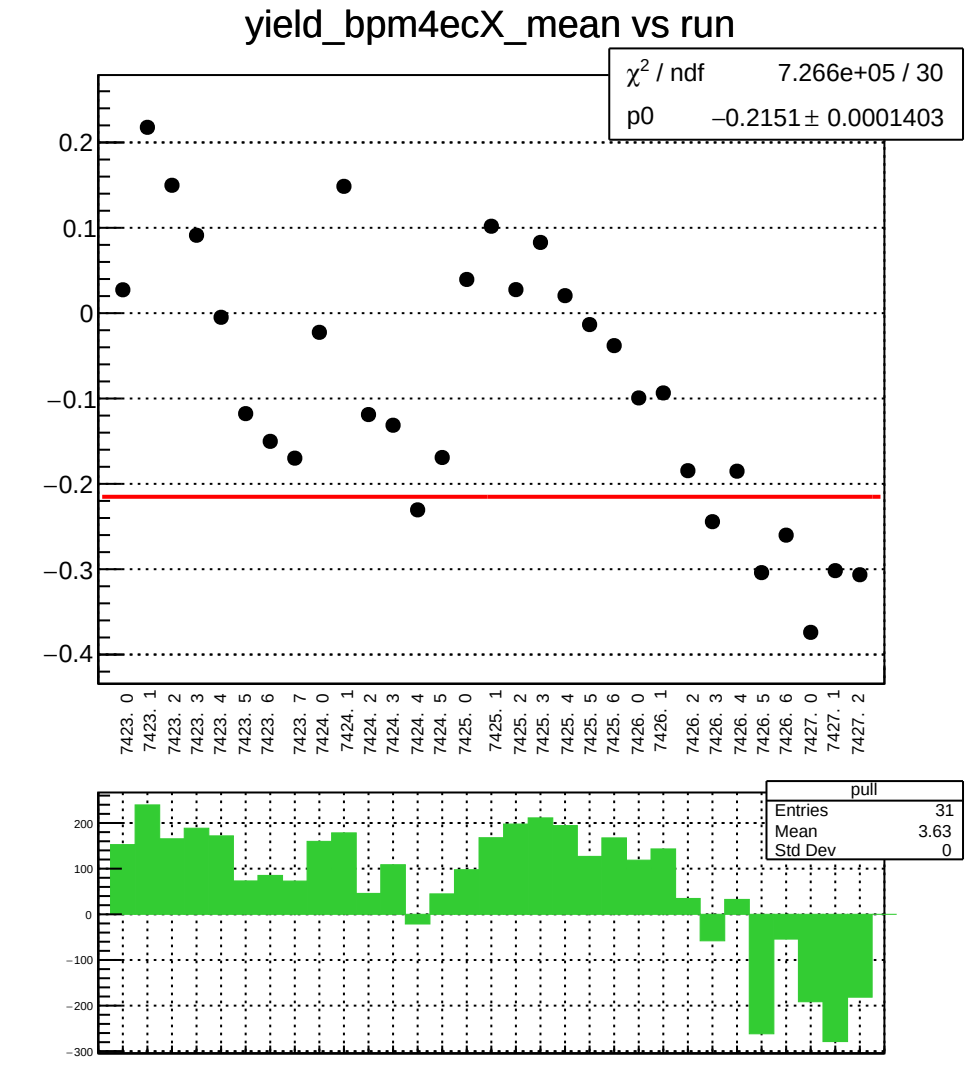

yield_bpm4acX_mean vs run
χ² / ndf 8.039e+04 / 30
p0 −0.9527 ± 3.553e−05
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 3.438
Std Dev 13.62
100
80
60
40
20
0
−20
−40
−60
−80

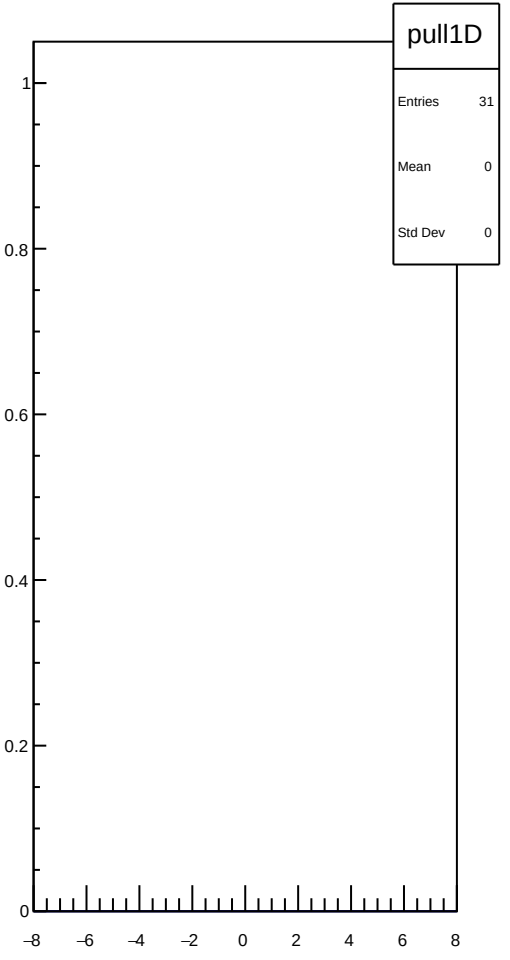

pull1D
Entries 31
Mean 7.014
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

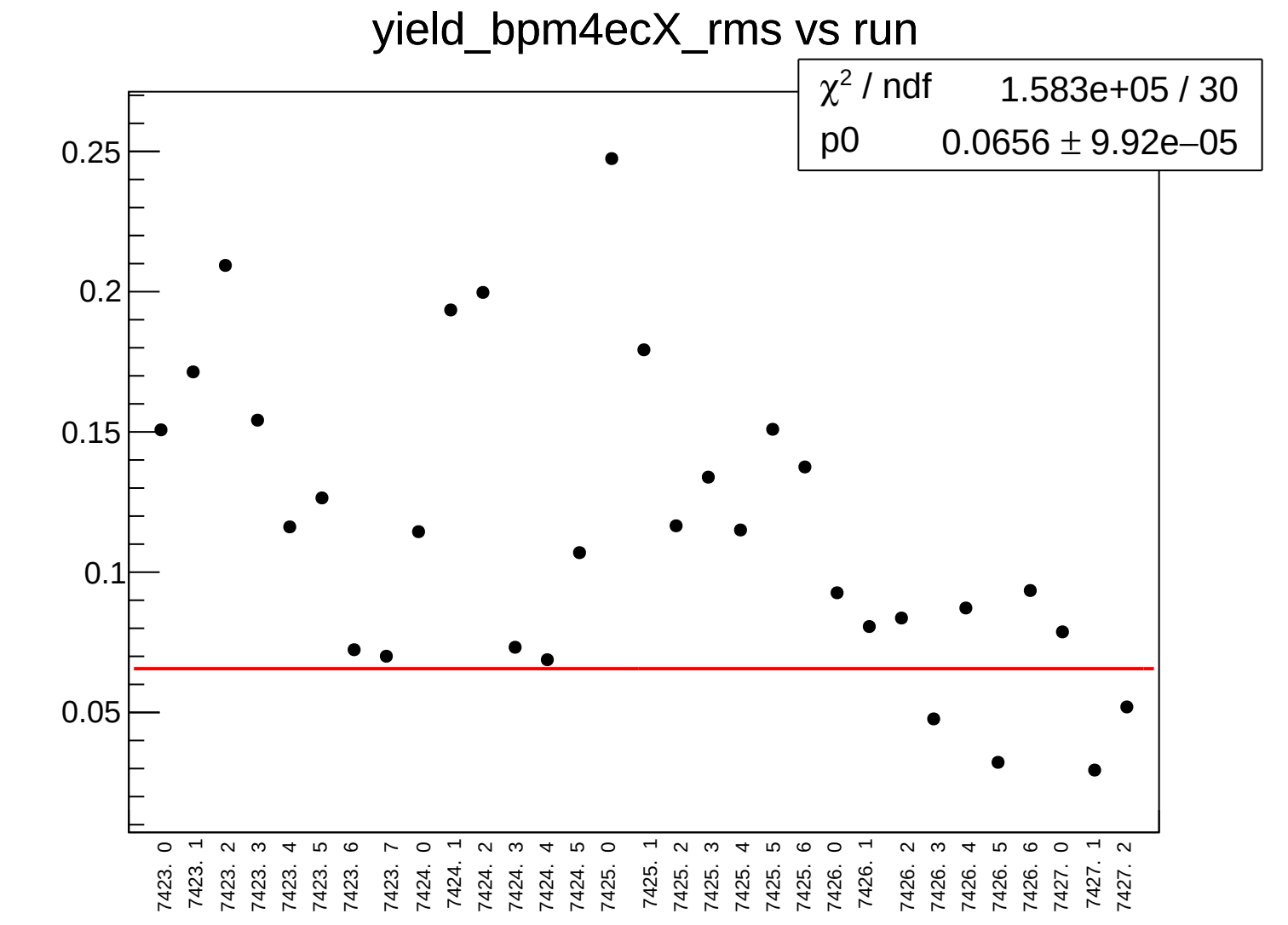

yield_bpm4acX_rms vs run
χ² / ndf 9.855e+04 / 30
p0 0.01771 ± 2.512e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

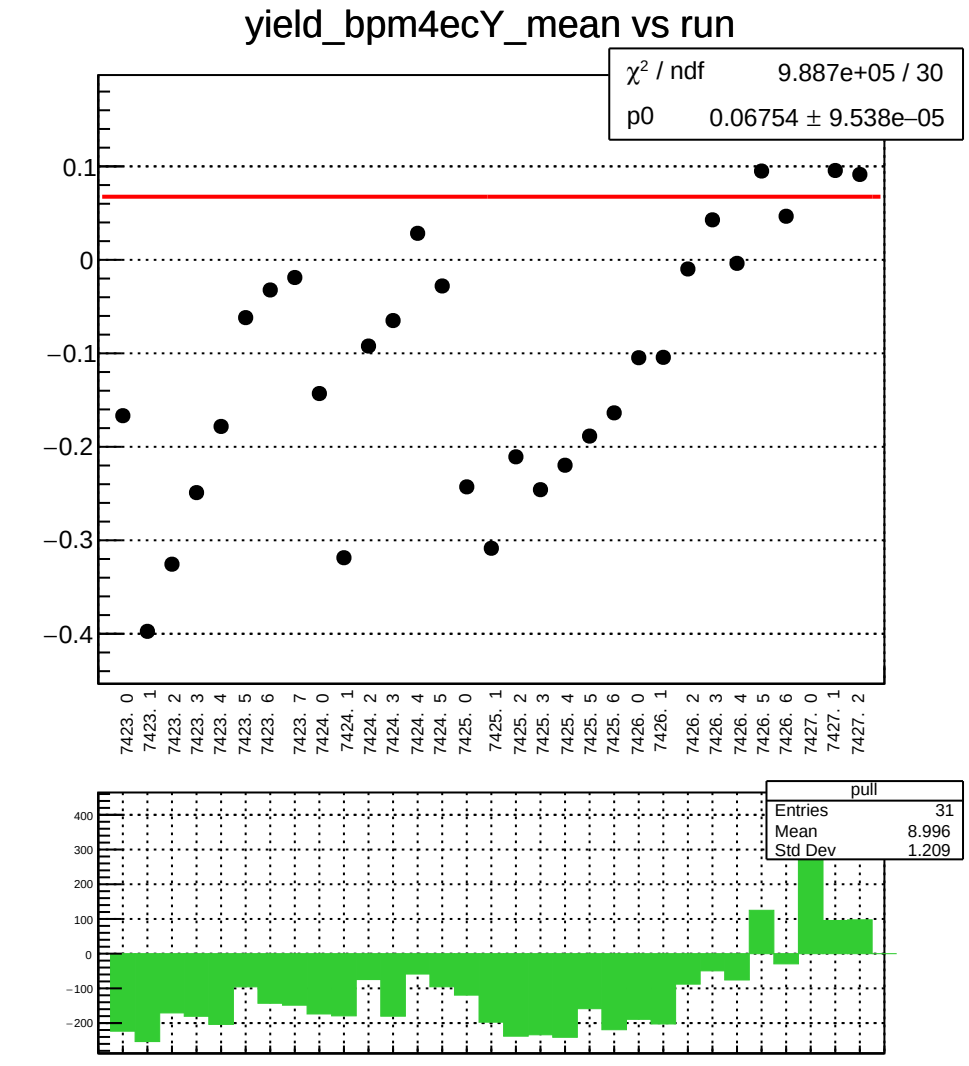

yield_bpm4acY_mean vs run
χ² / ndf 6.356e+04 / 30
p0 0.6967 ± 2.06e−05
0.72
0.715
0.71
0.705
0.7
0.695
0.69
0.685
0.68
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
150
100
50
0
−50
pull
Entries 31
Mean −151.6
Std Dev 0
pull1D
Entries 31
Mean 3.144
Std Dev 4.611
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

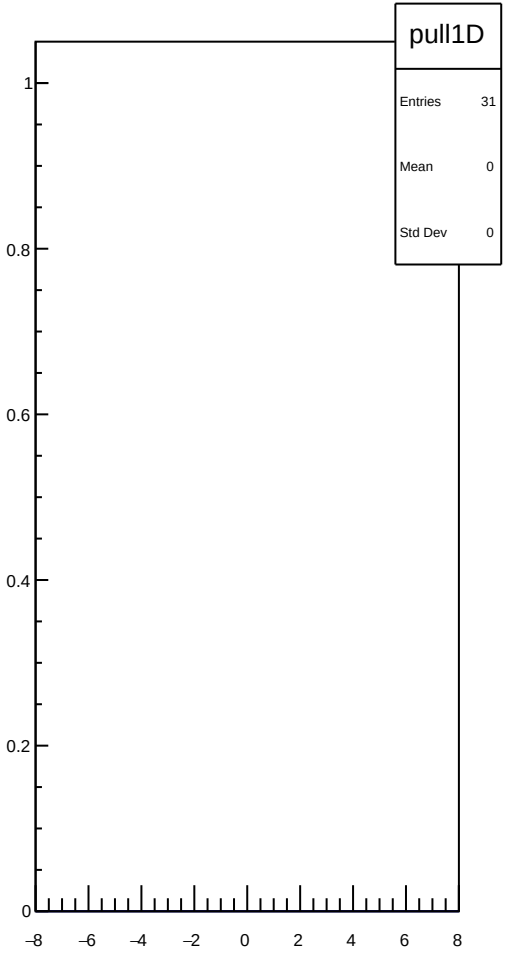

yield_bpm4acY_rms vs run
χ² / ndf 2.195e+04 / 30
p0 0.01103 ± 1.456e−05
0.03
0.025
0.02
0.015
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

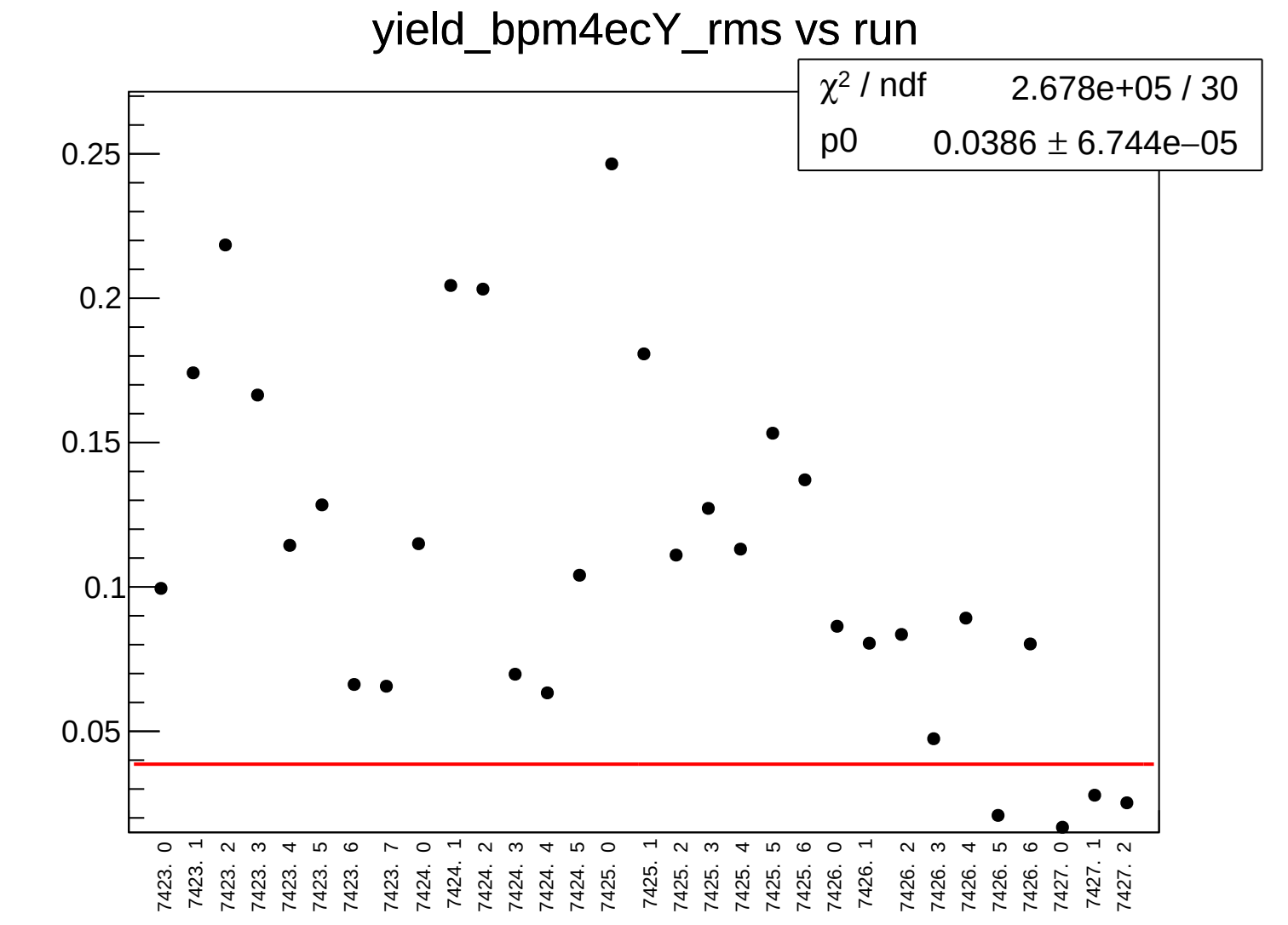

yield_bpm4ecX_mean vs run
χ² / ndf 7.266e+05 / 30
p0 −0.2151 ± 0.0001403
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 3.63
Std Dev 0
200
100
0
−100
−200
−300

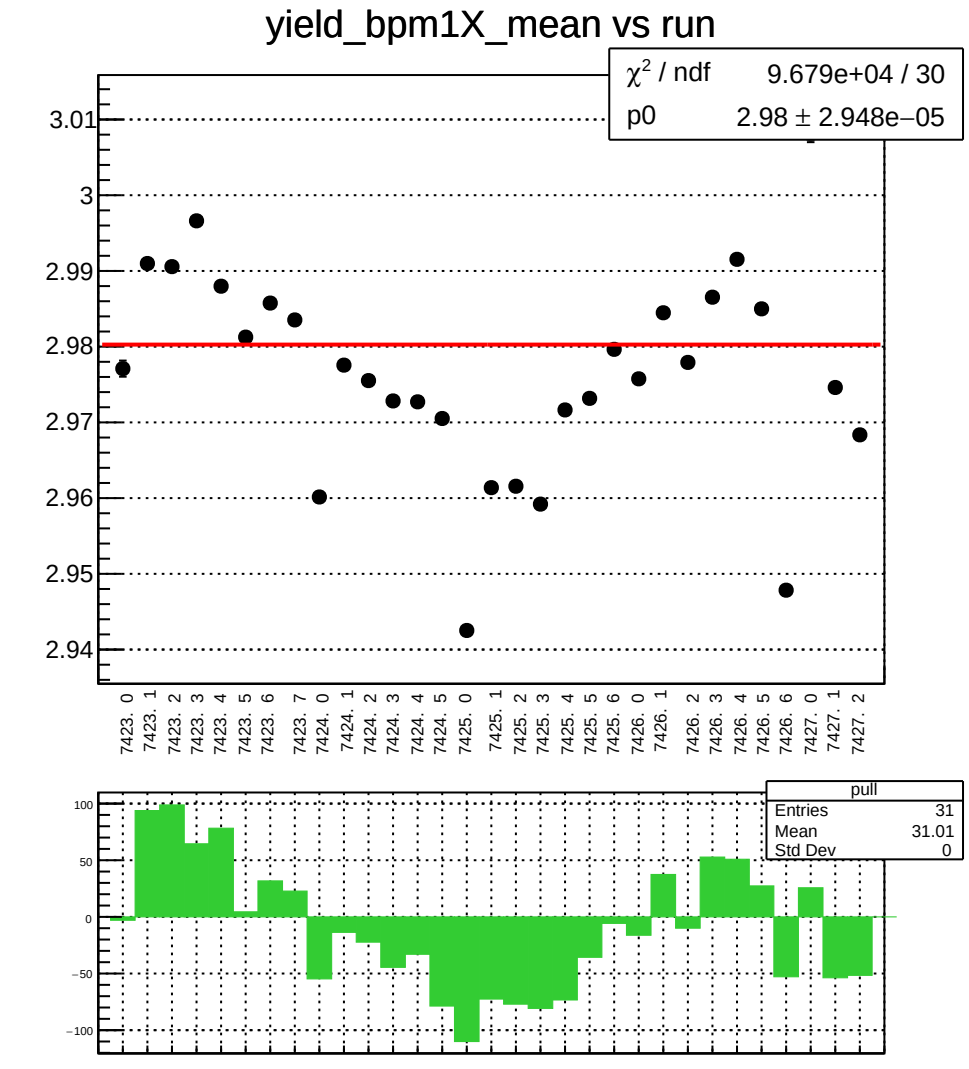

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

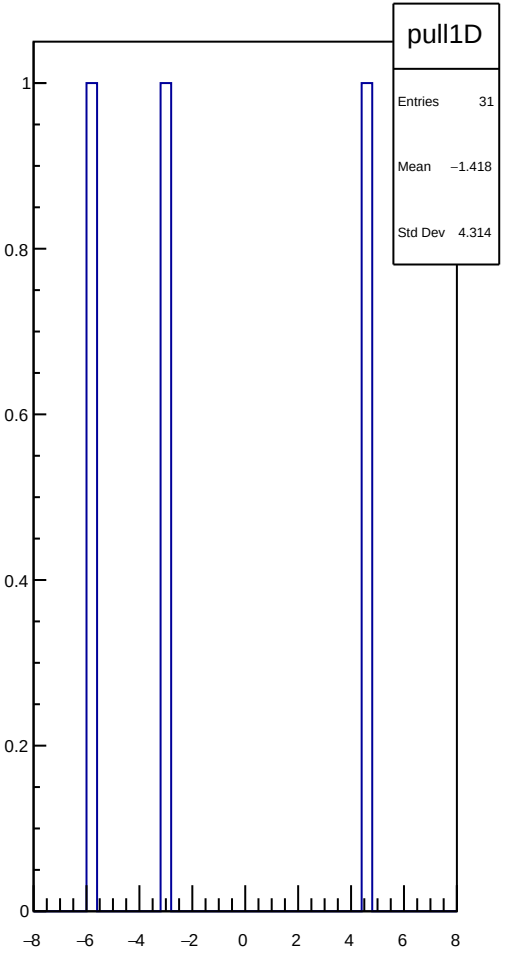

yield_bpm4ecX_rms vs run
χ² / ndf 1.583e+05 / 30
p0 0.0656 ± 9.92e−05
0.25
0.2
0.15
0.1
0.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

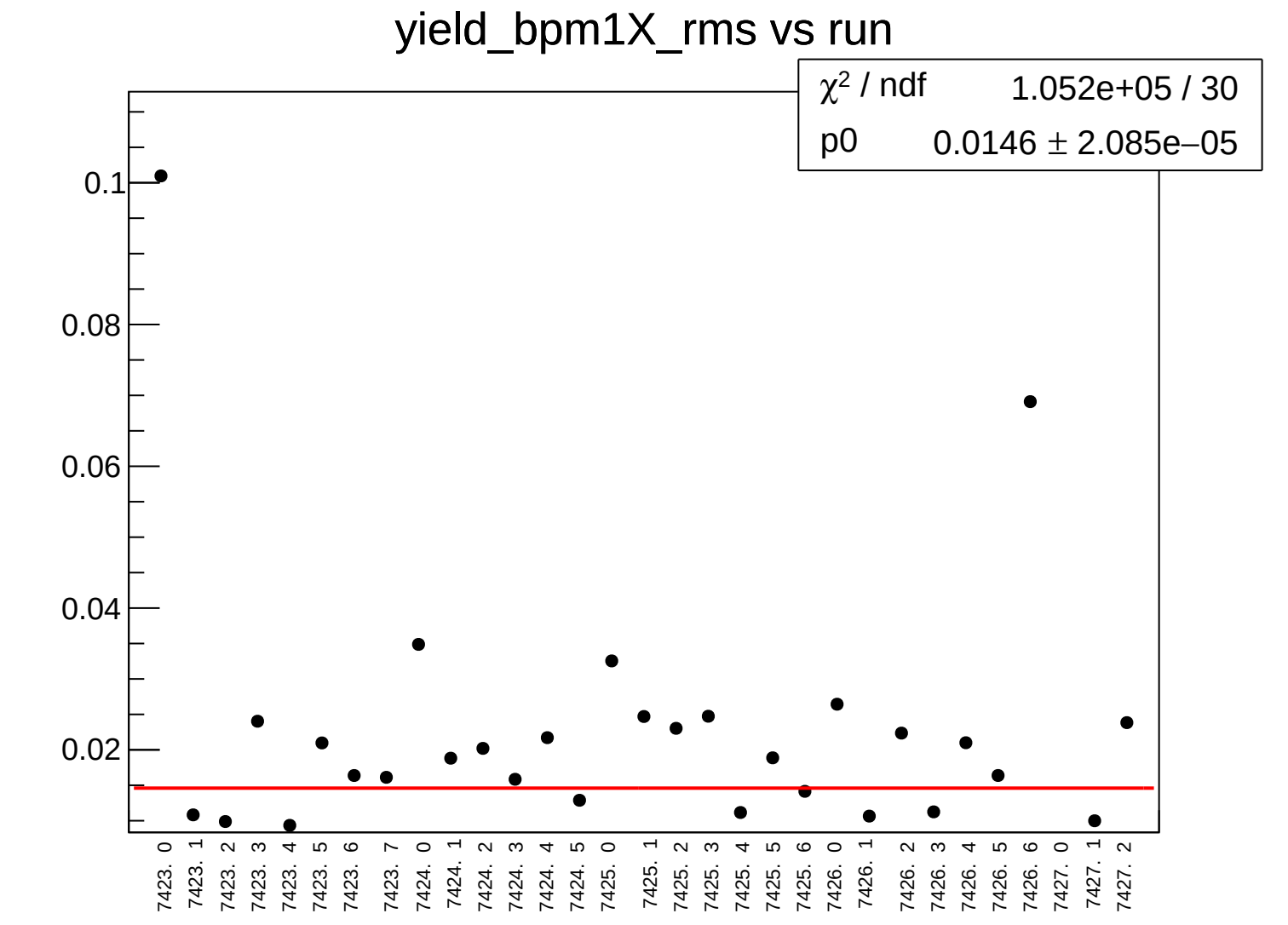

yield_bpm4ecY_mean vs run
χ² / ndf 9.887e+05 / 30
p0 0.06754 ± 9.538e−05
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.996
Std Dev 1.209
400
300
200
100
0
−100
−200

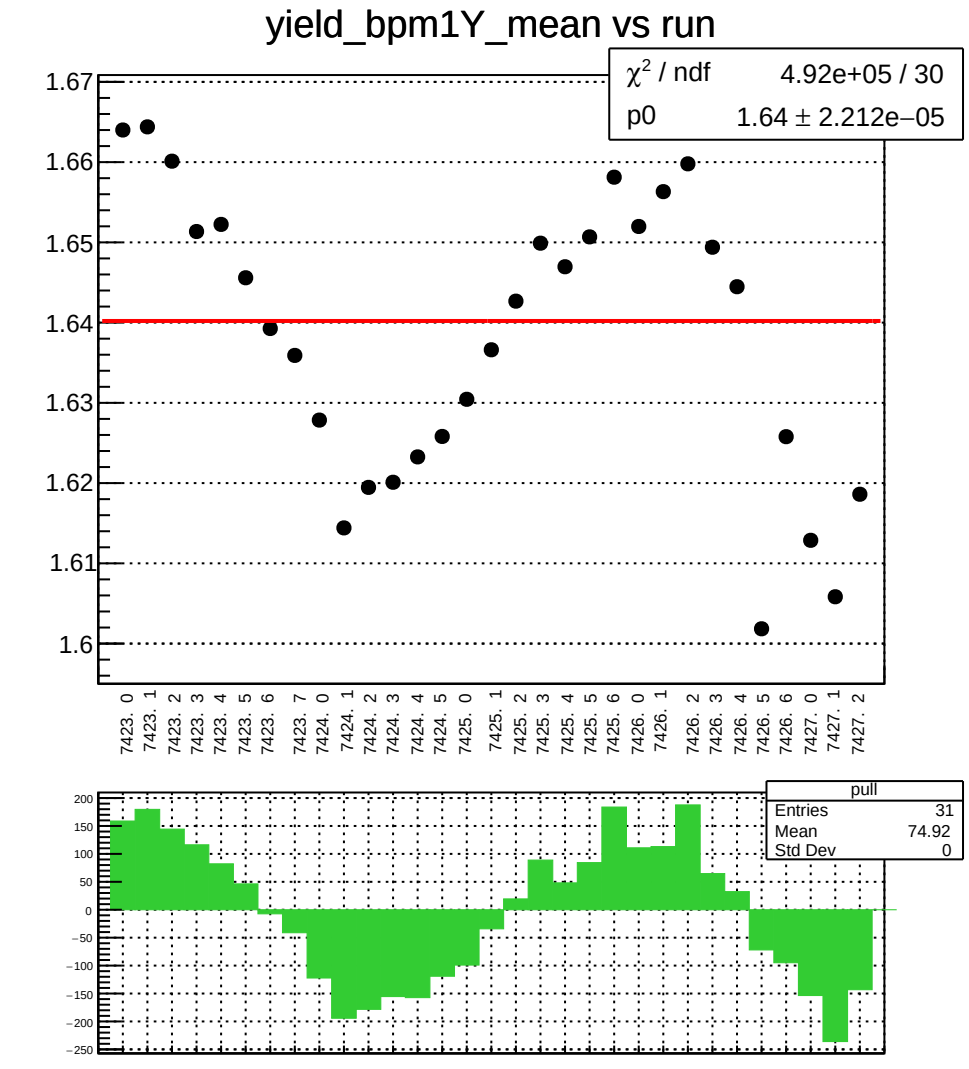

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

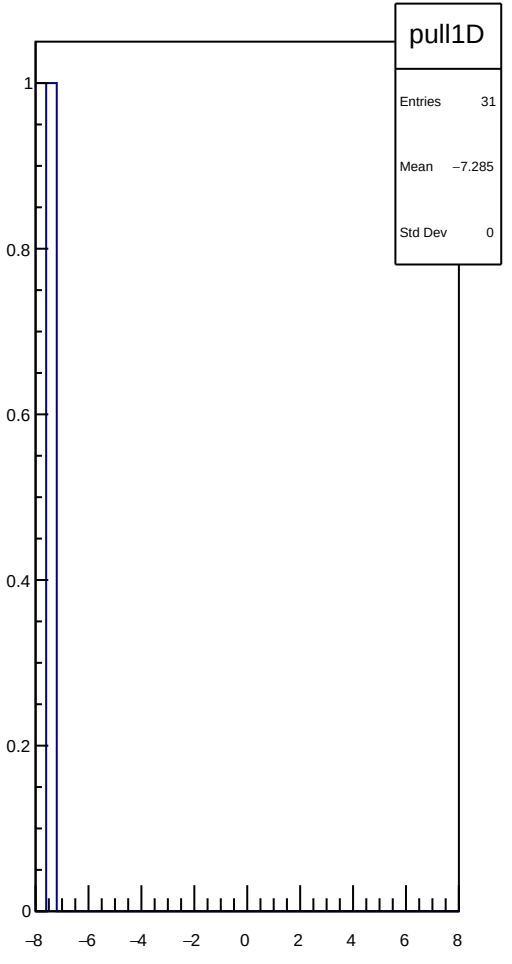

yield_bpm4ecY_rms vs run
χ² / ndf 2.678e+05 / 30
p0 0.0386 ± 6.744e−05
0.25
0.2
0.15
0.1
0.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

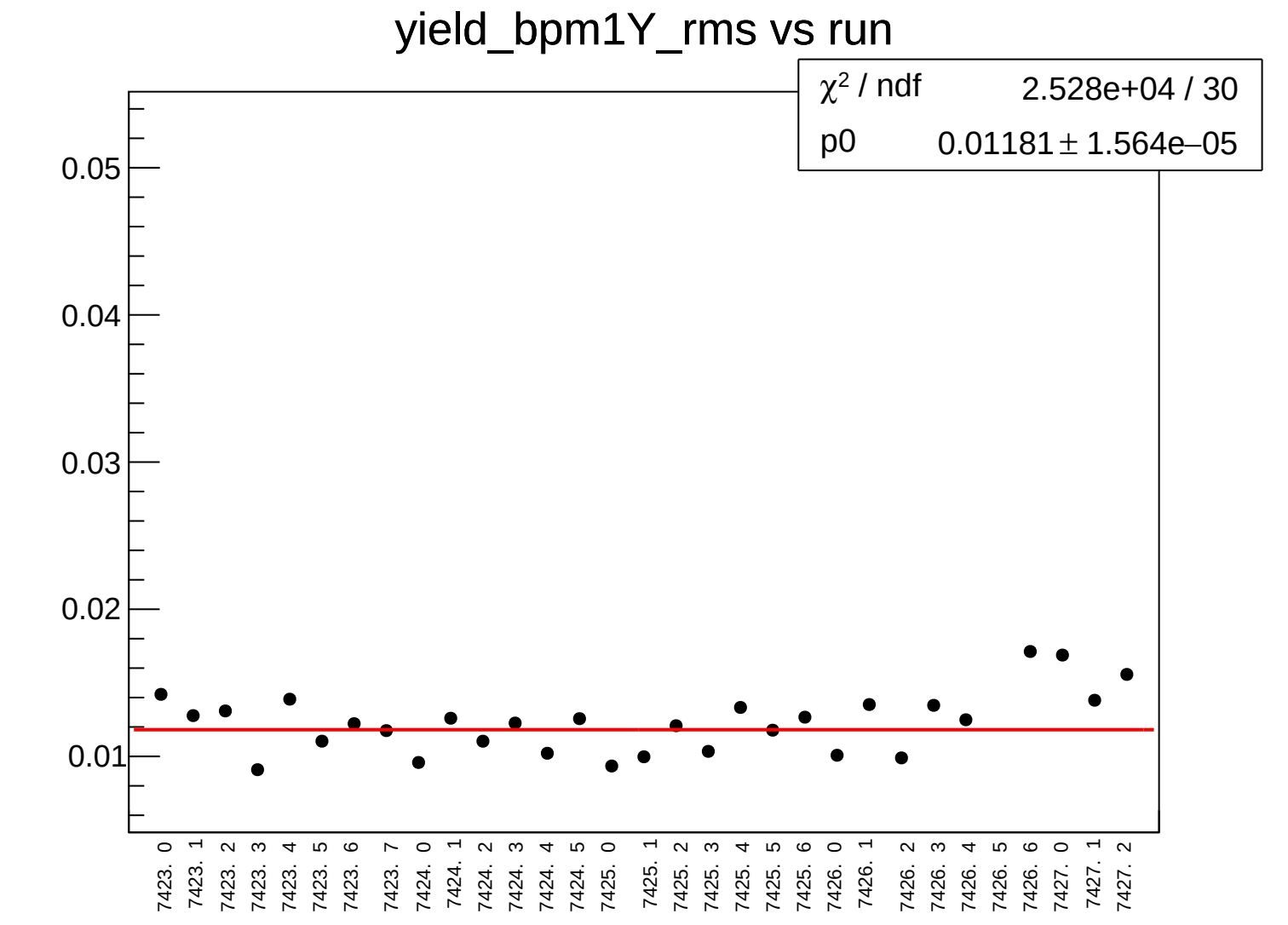

yield_bpm1X_mean vs run
χ² / ndf 9.679e+04 / 30
p0 2.98 ± 2.948e−05
3.01
3
2.99
2.98
2.97
2.96
2.95
2.94
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 31.01
Std Dev 0
100
50
0
−50
−100

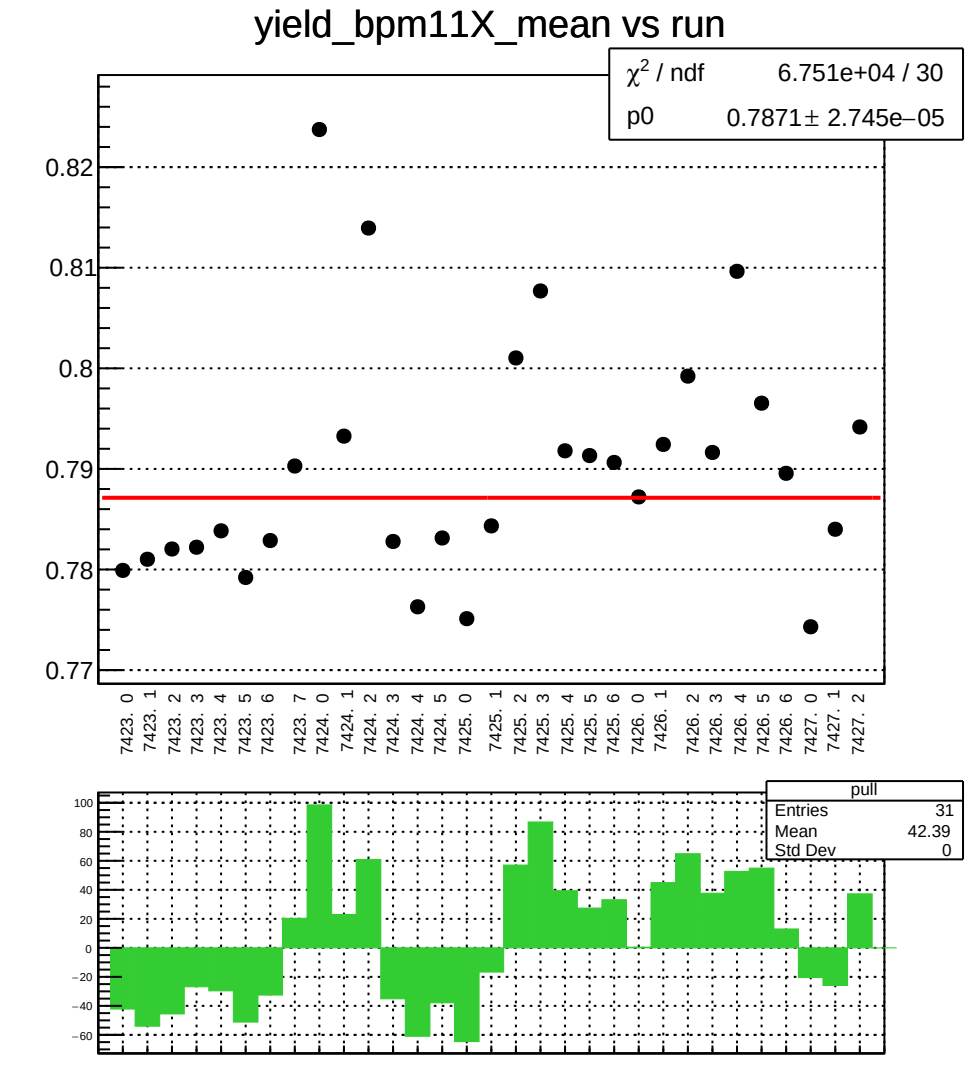

pull1D
Entries 31
Mean −1.418
Std Dev 4.314
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

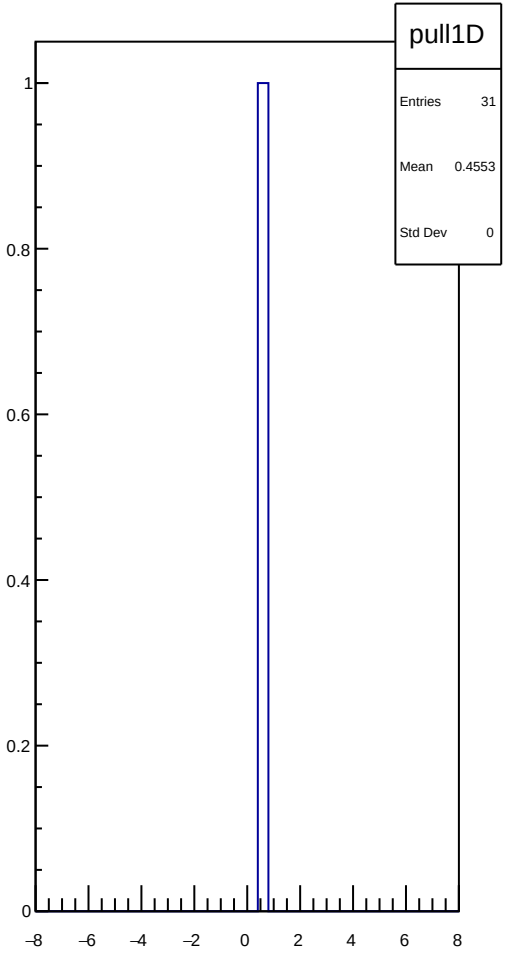

yield_bpm1X_rms vs run
χ² / ndf 1.052e+05 / 30
p0 0.0146 ± 2.085e−05
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

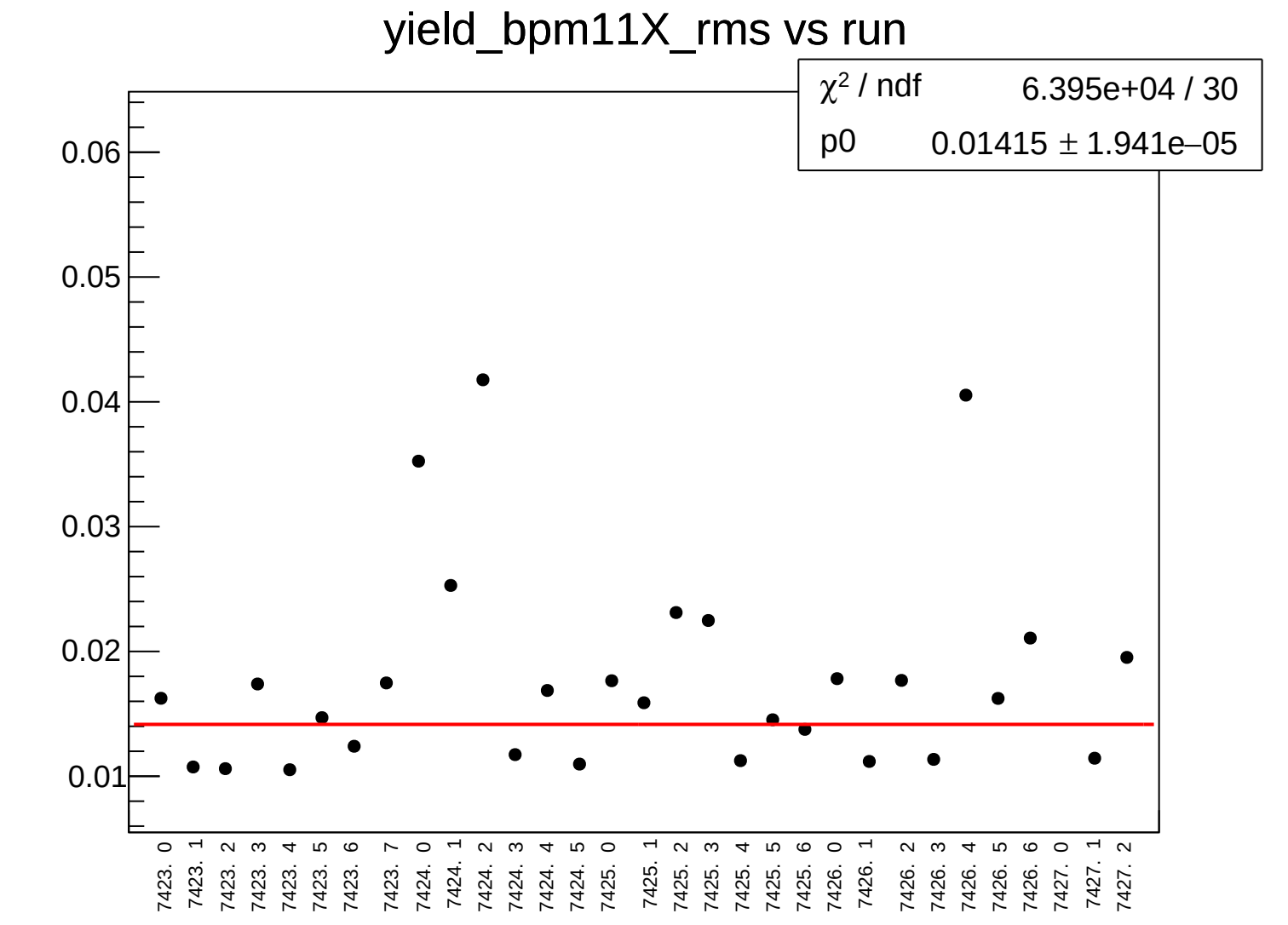

yield_bpm1Y_mean vs run
χ² / ndf 4.92e+05 / 30
p0 1.64 ± 2.212e−05
1.67
1.66
1.65
1.64
1.63
1.62
1.61
1.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 74.92
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

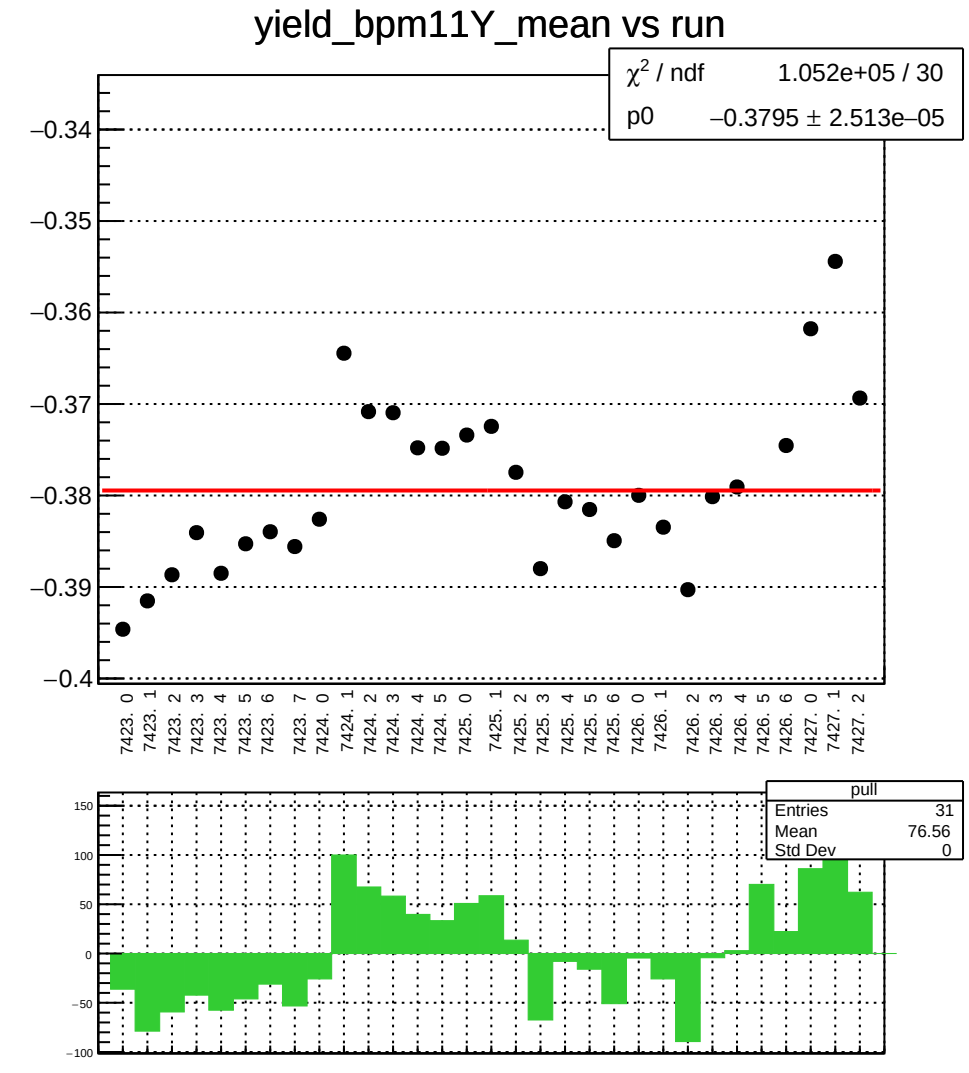

pull1D
Entries 31
Mean −7.285
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

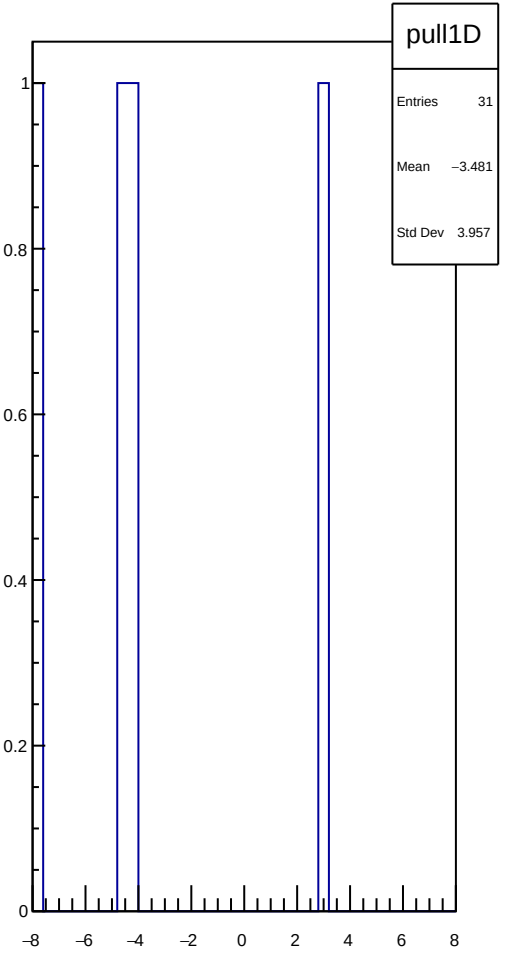

yield_bpm1Y_rms vs run
χ² / ndf 2.528e+04 / 30
p0 0.01181 ± 1.564e–05
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

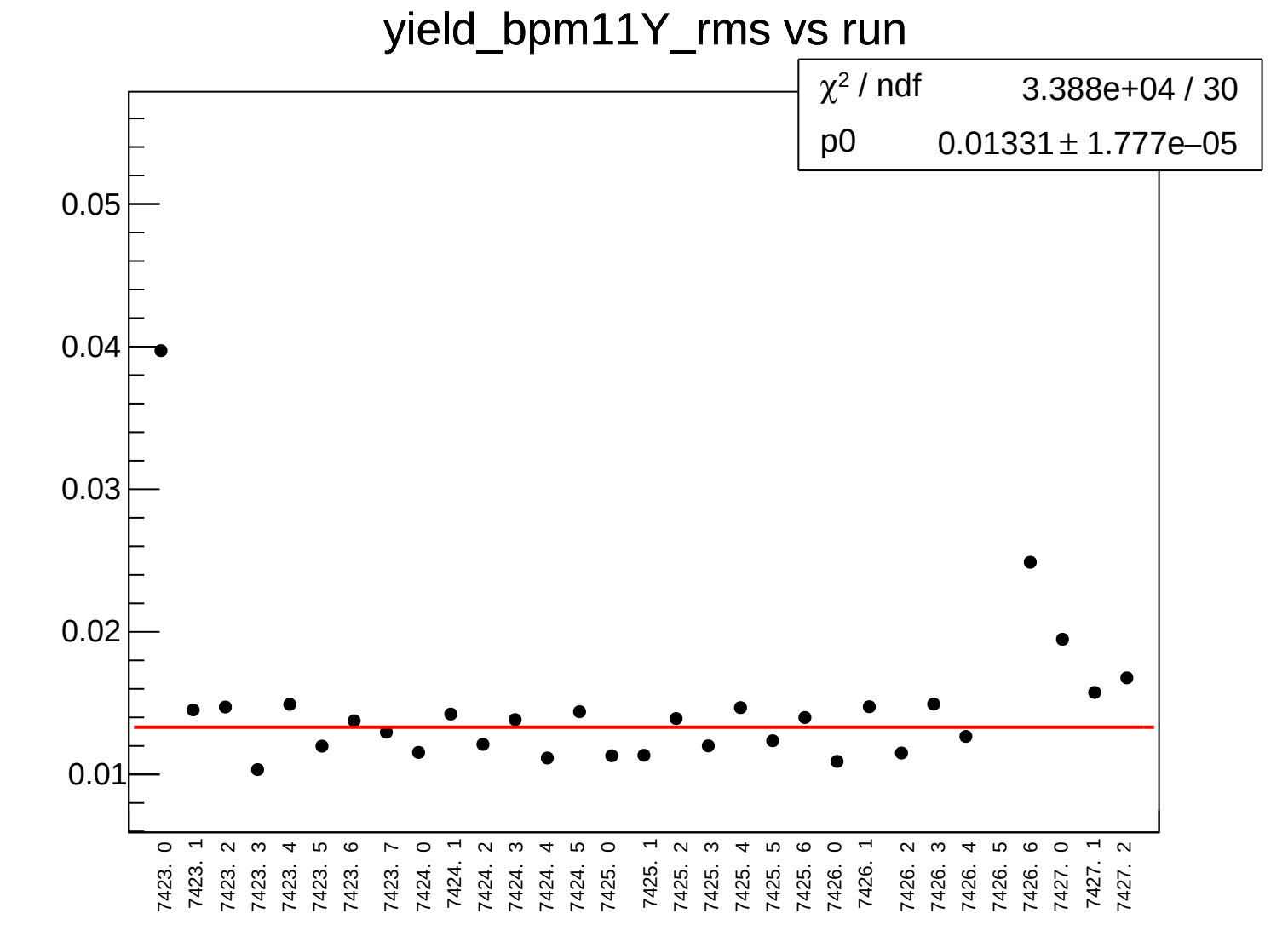

yield_bpm11X_mean vs run
χ² / ndf 6.751e+04 / 30
p0 0.7871 ± 2.745e−05
0.82
0.81
0.8
0.79
0.78
0.77
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 42.39
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

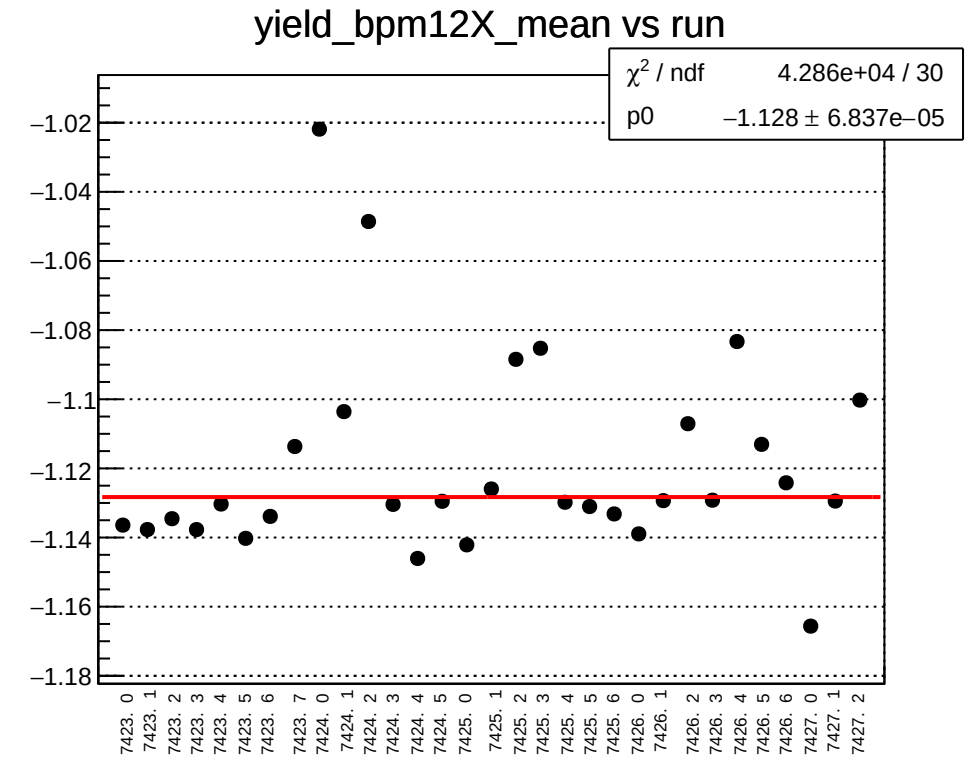

pull1D
Entries 31
Mean 0.4553
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

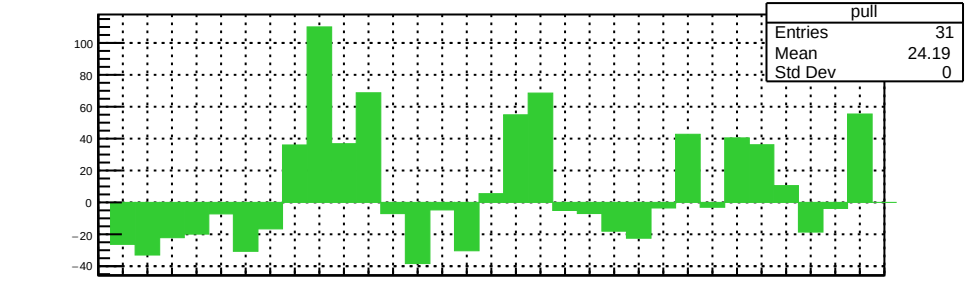

yield_bpm11X_rms vs run
χ² / ndf 6.395e+04 / 30
p0 0.01415 ± 1.941e–05
0.06
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

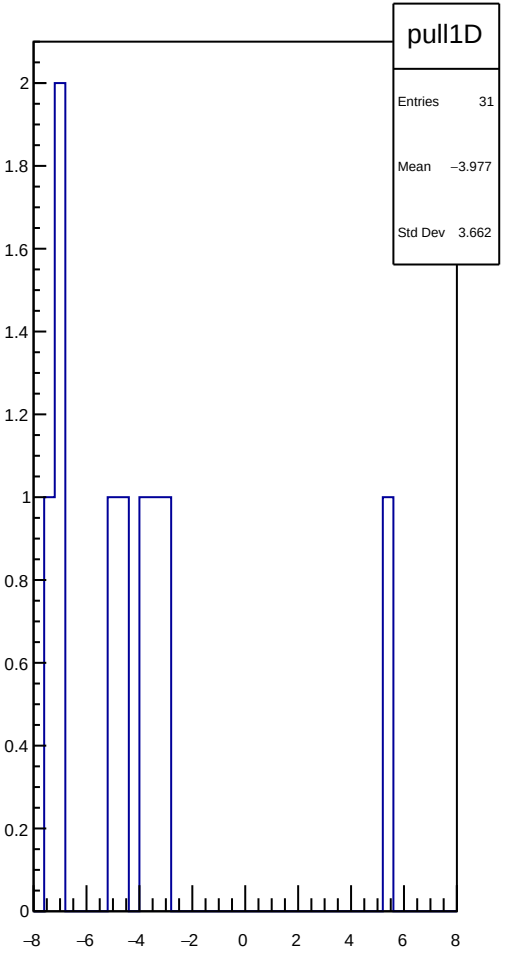

yield_bpm11Y_mean vs run
χ² / ndf 1.052e+05 / 30
p0 −0.3795 ± 2.513e−05
−0.34
−0.35
−0.36
−0.37
−0.38
−0.39
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 76.56
Std Dev 0
150
100
50
0
−50
−100

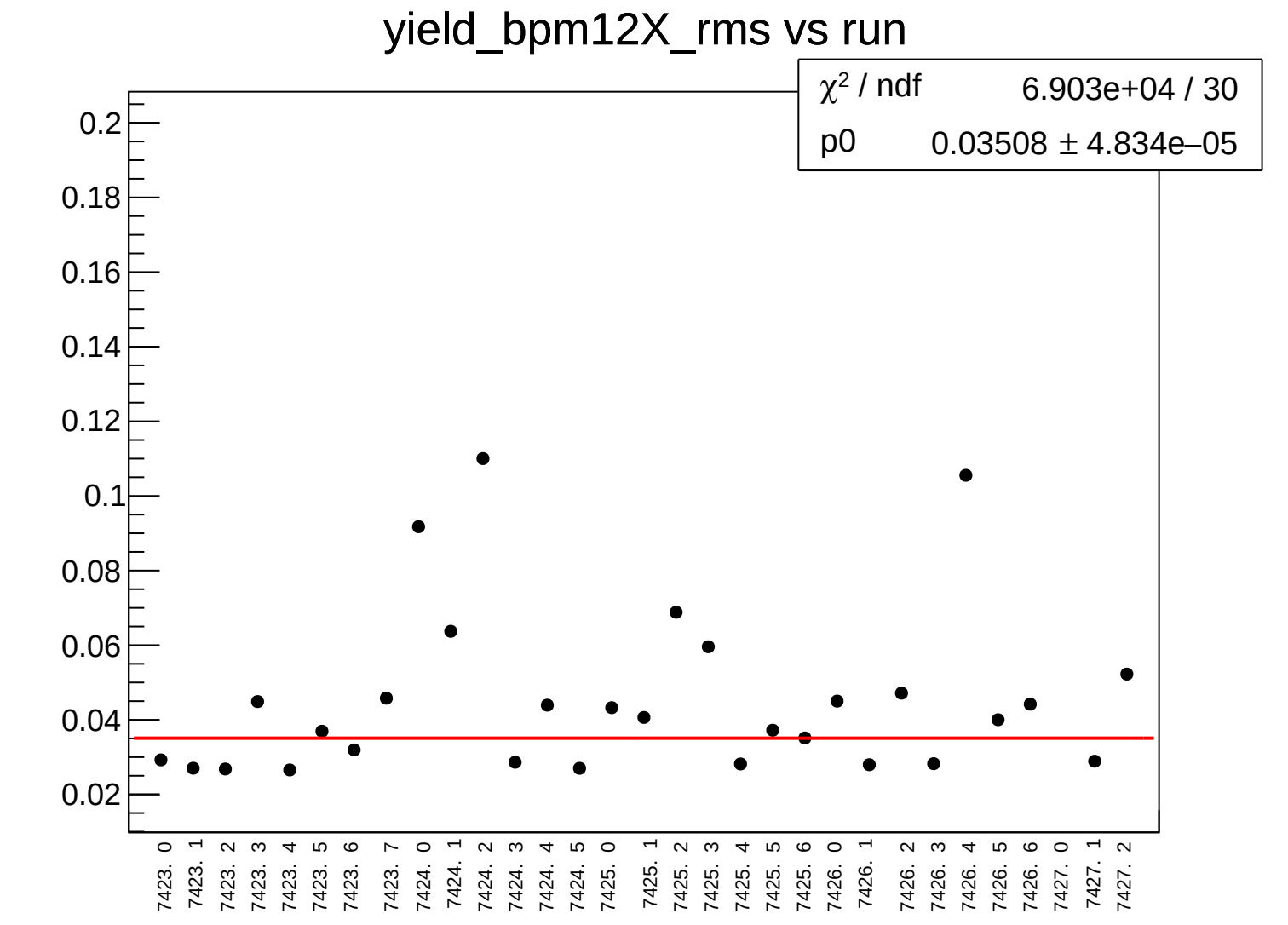

pull1D
Entries 31
Mean −3.481
Std Dev 3.957
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

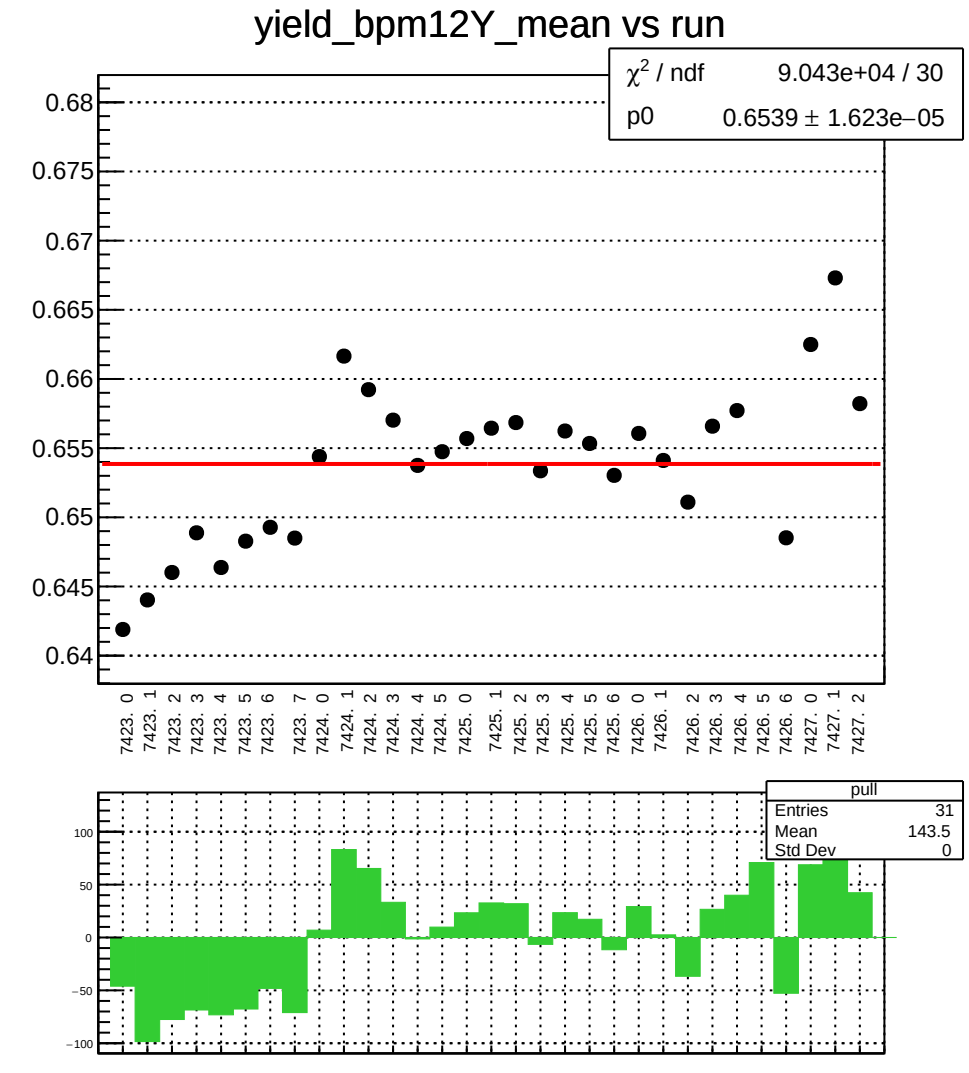

yield_bpm11Y_rms vs run
χ² / ndf 3.388e+04 / 30
p0 0.01331 ± 1.777e–05
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

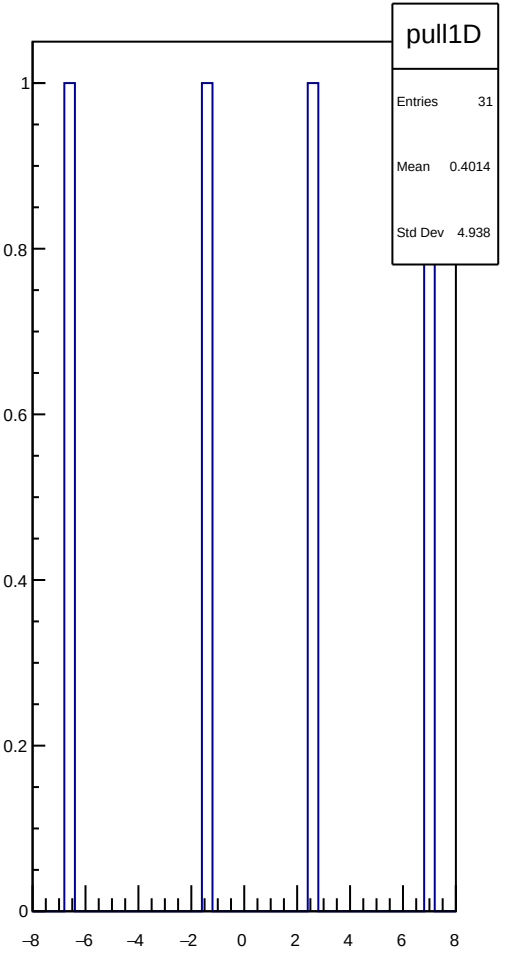

yield_bpm12X_mean vs run
χ² / ndf 4.286e+04 / 30
p0 −1.128 ± 6.837e−05
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

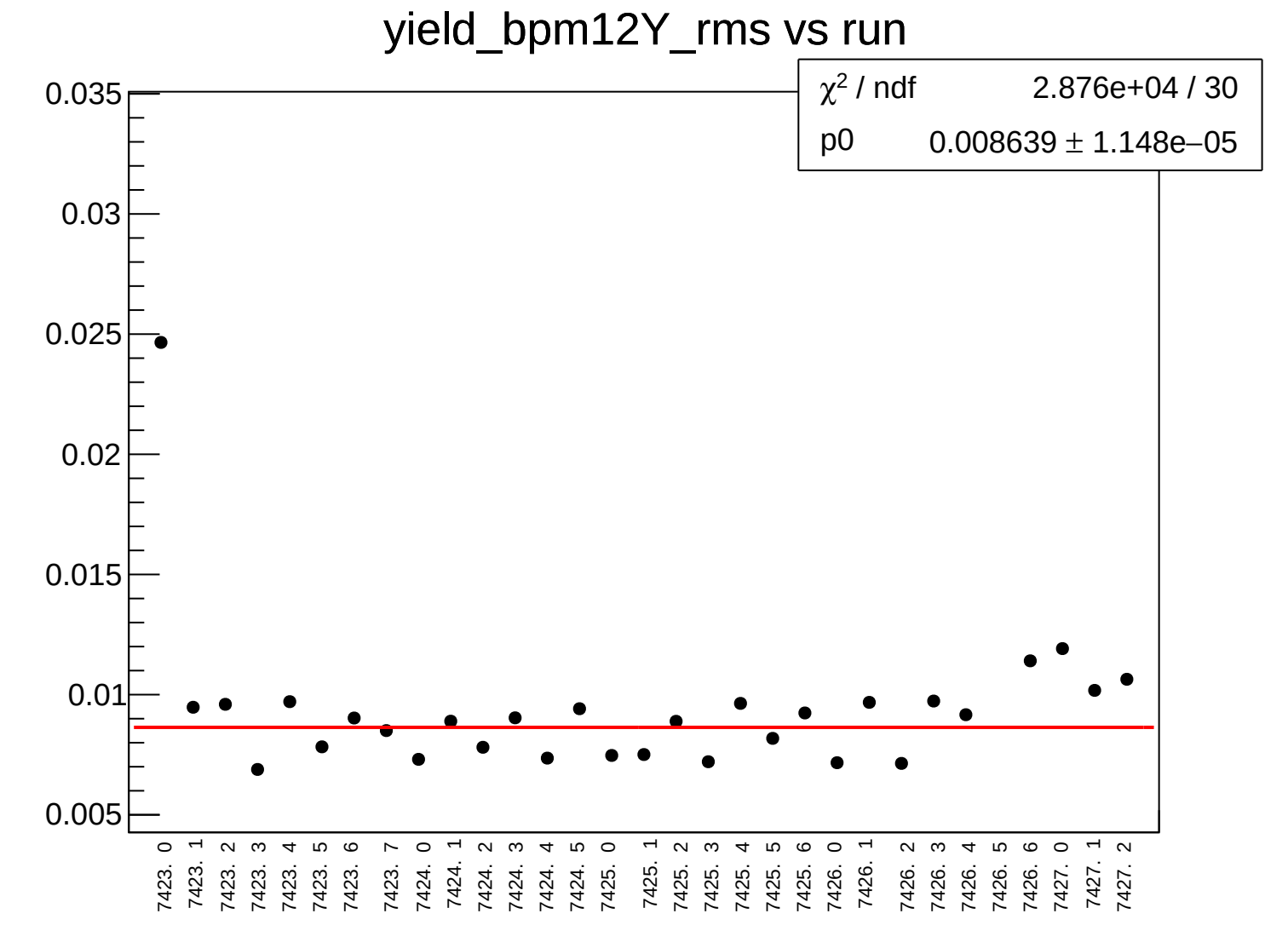

pull
Entries 31
Mean 24.19
Std Dev 0
100
80
60
40
20
0
−20
−40

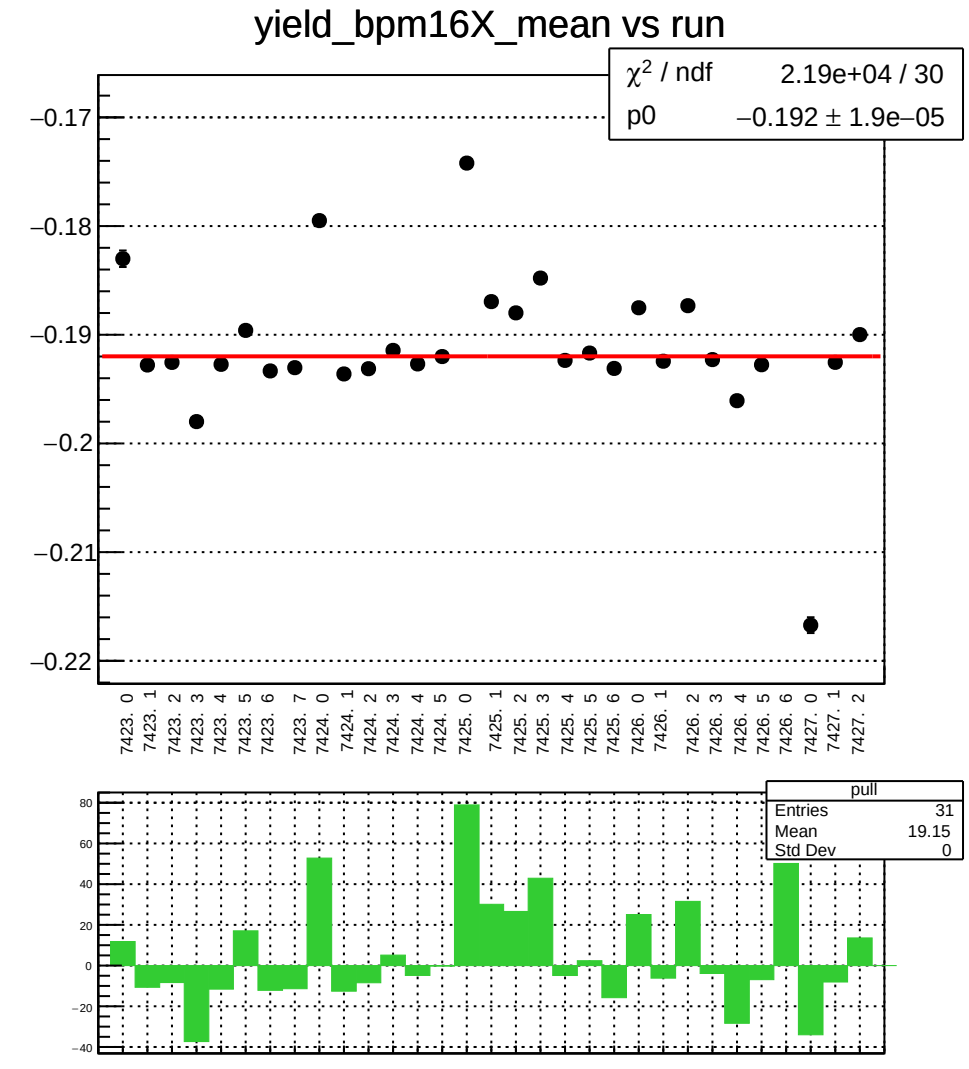

pull1D
Entries 31
Mean −3.977
Std Dev 3.662
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

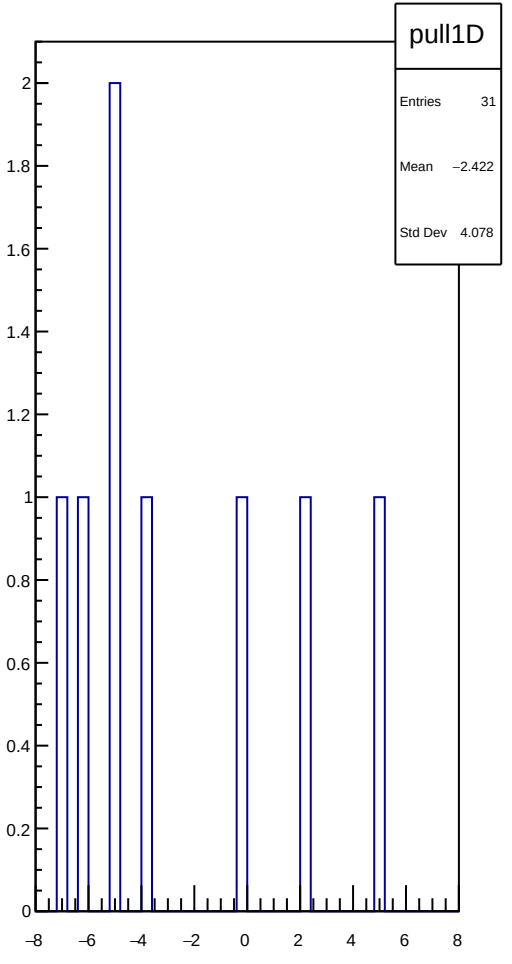

yield_bpm12X_rms vs run
χ² / ndf 6.903e+04 / 30
p0 0.03508 ± 4.834e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

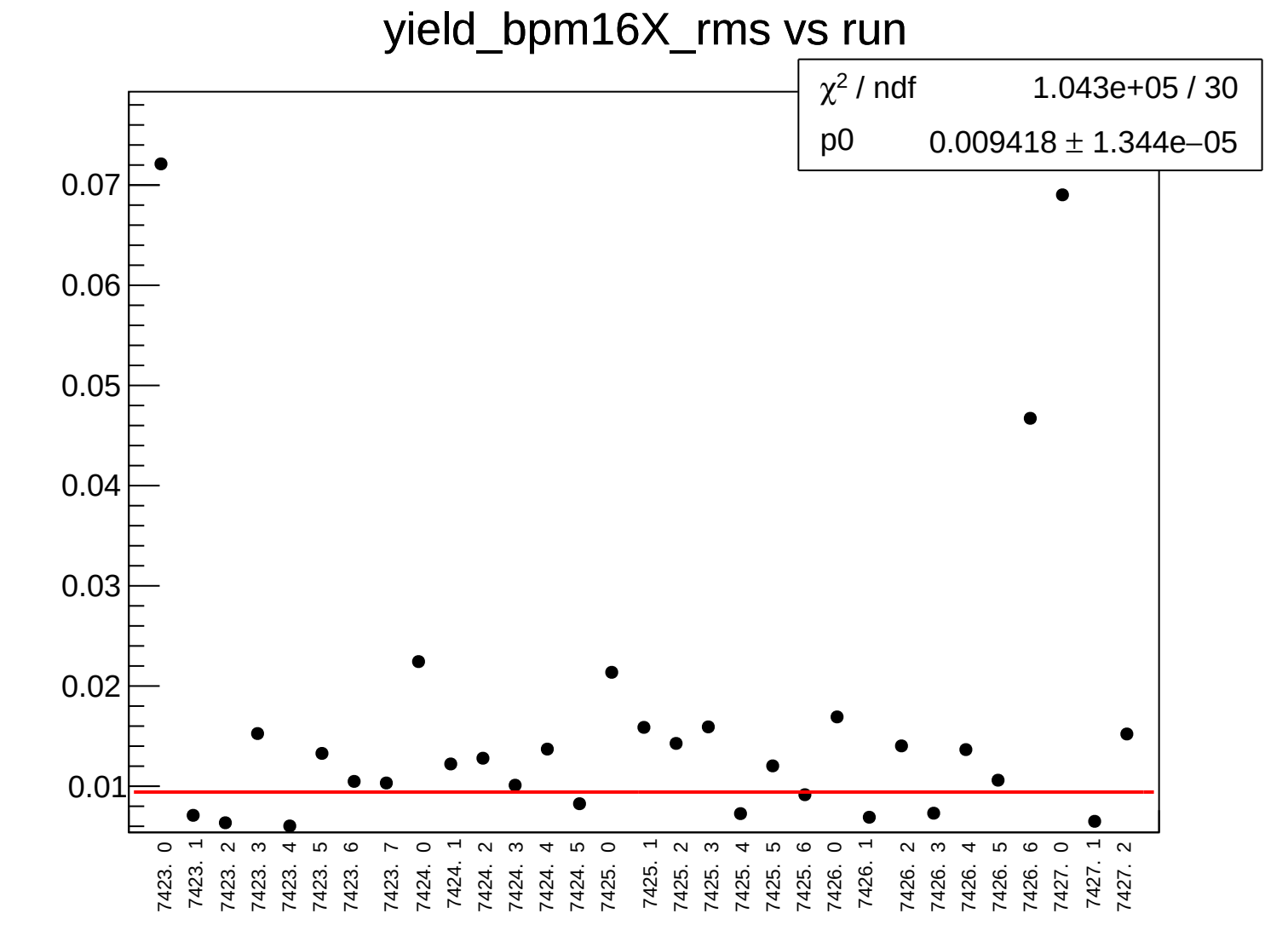

yield_bpm12Y_mean vs run
χ² / ndf 9.043e+04 / 30
p0 0.6539 ± 1.623e−05
0.68
0.675
0.67
0.665
0.66
0.655
0.65
0.645
0.64
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 143.5
Std Dev 0
100
50
0
−50
−100

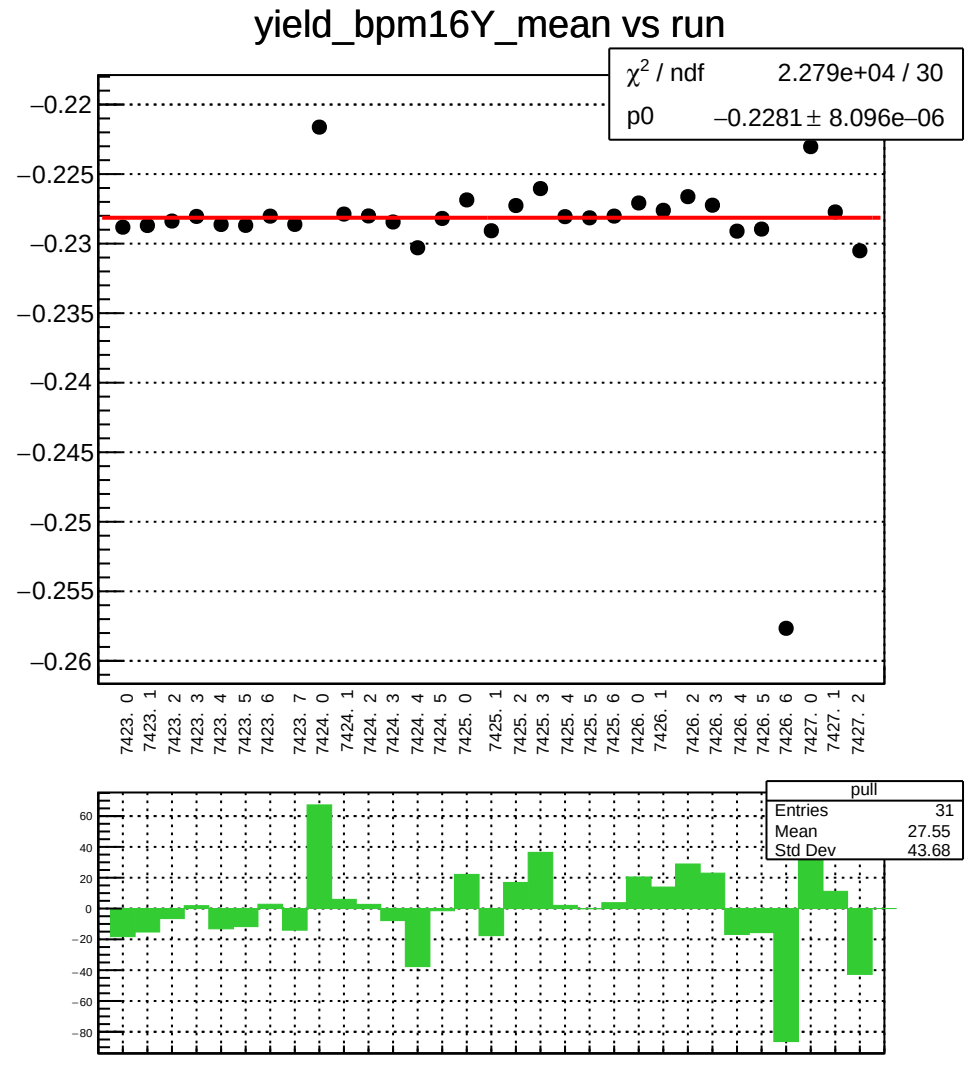

pull1D
Entries 31
Mean 0.4014
Std Dev 4.938
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

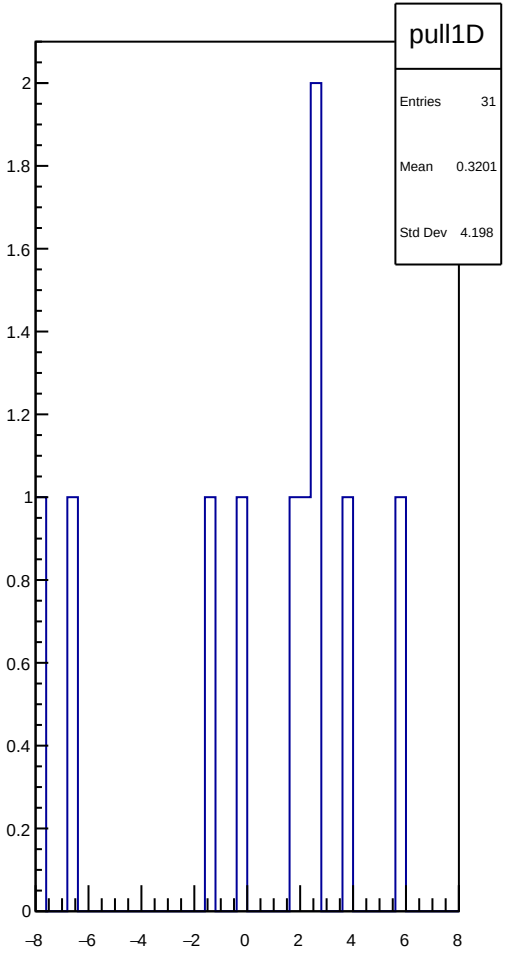

yield_bpm12Y_rms vs run
χ² / ndf 2.876e+04 / 30
p0 0.008639 ± 1.148e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

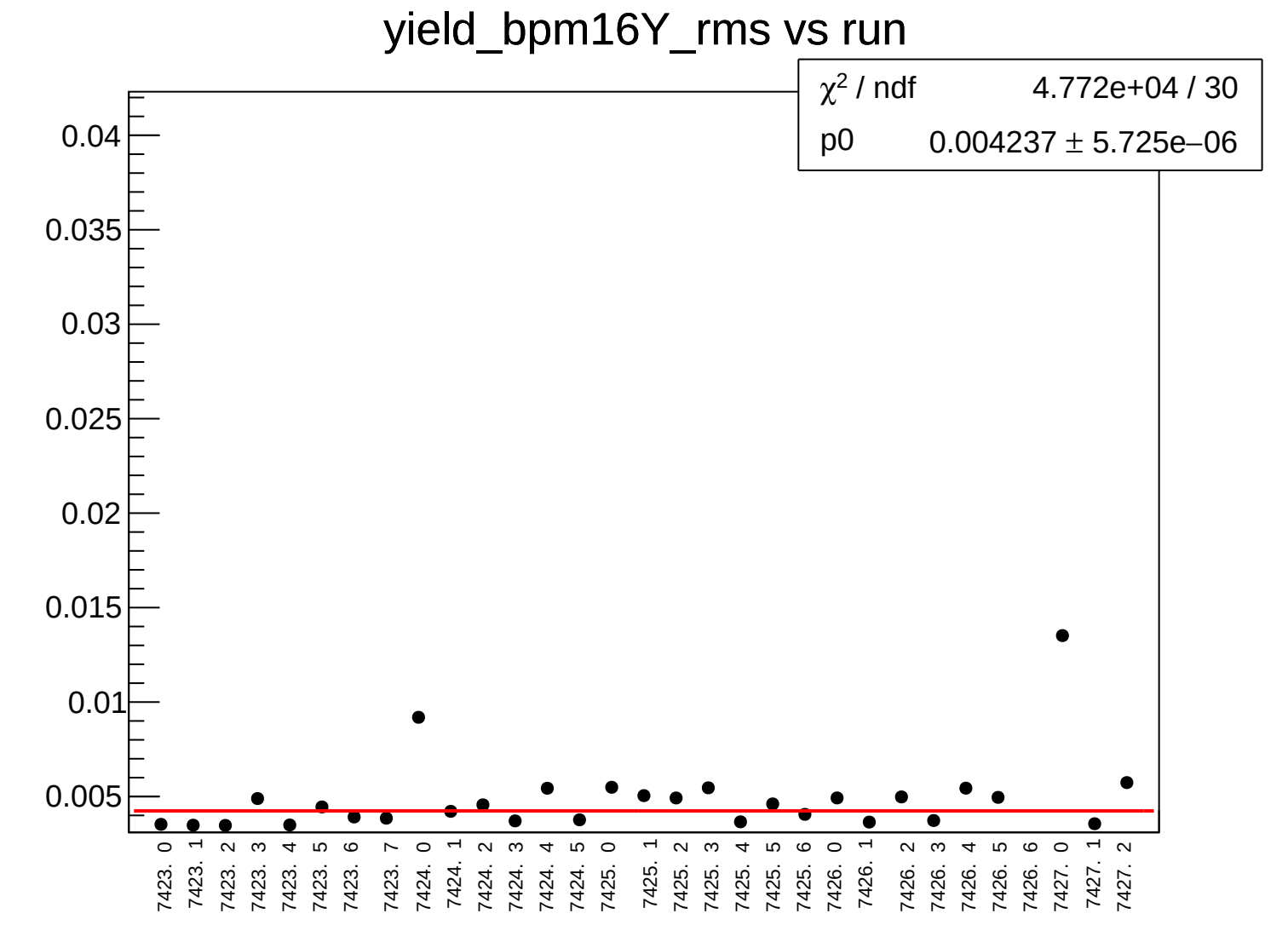

yield_bpm16X_mean vs run
χ² / ndf 2.19e+04 / 30
p0 −0.192 ± 1.9e−05
−0.17
−0.18
−0.19
−0.2
−0.21
−0.22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 19.15
Std Dev 0
80
60
40
20
0
−20
−40

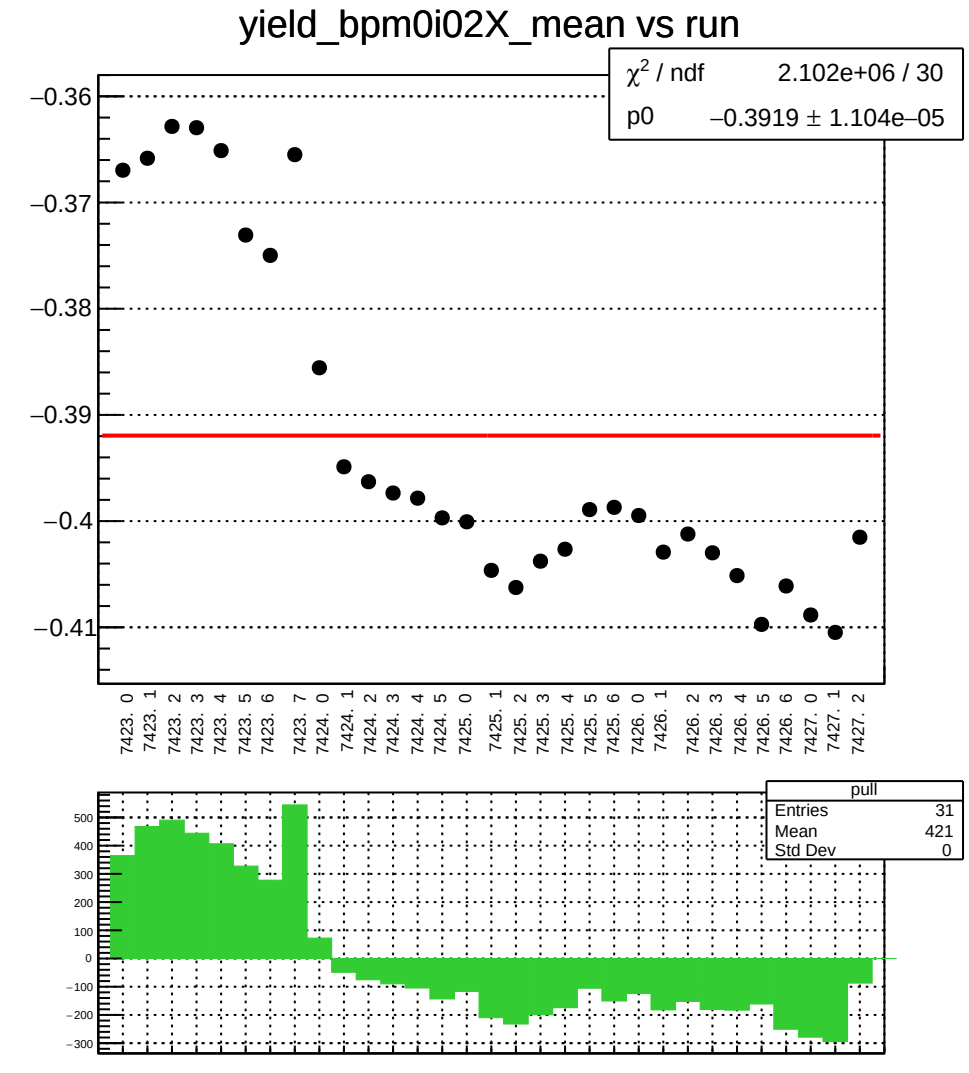

pull1D
Entries 31
Mean −2.422
Std Dev 4.078
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

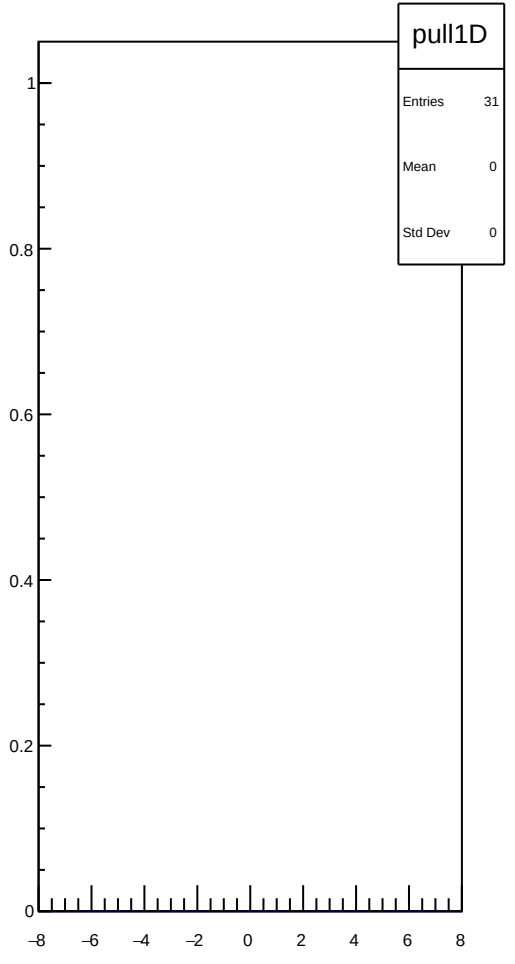

yield_bpm16X_rms vs run
χ² / ndf 1.043e+05 / 30
p0 0.009418 ± 1.344e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

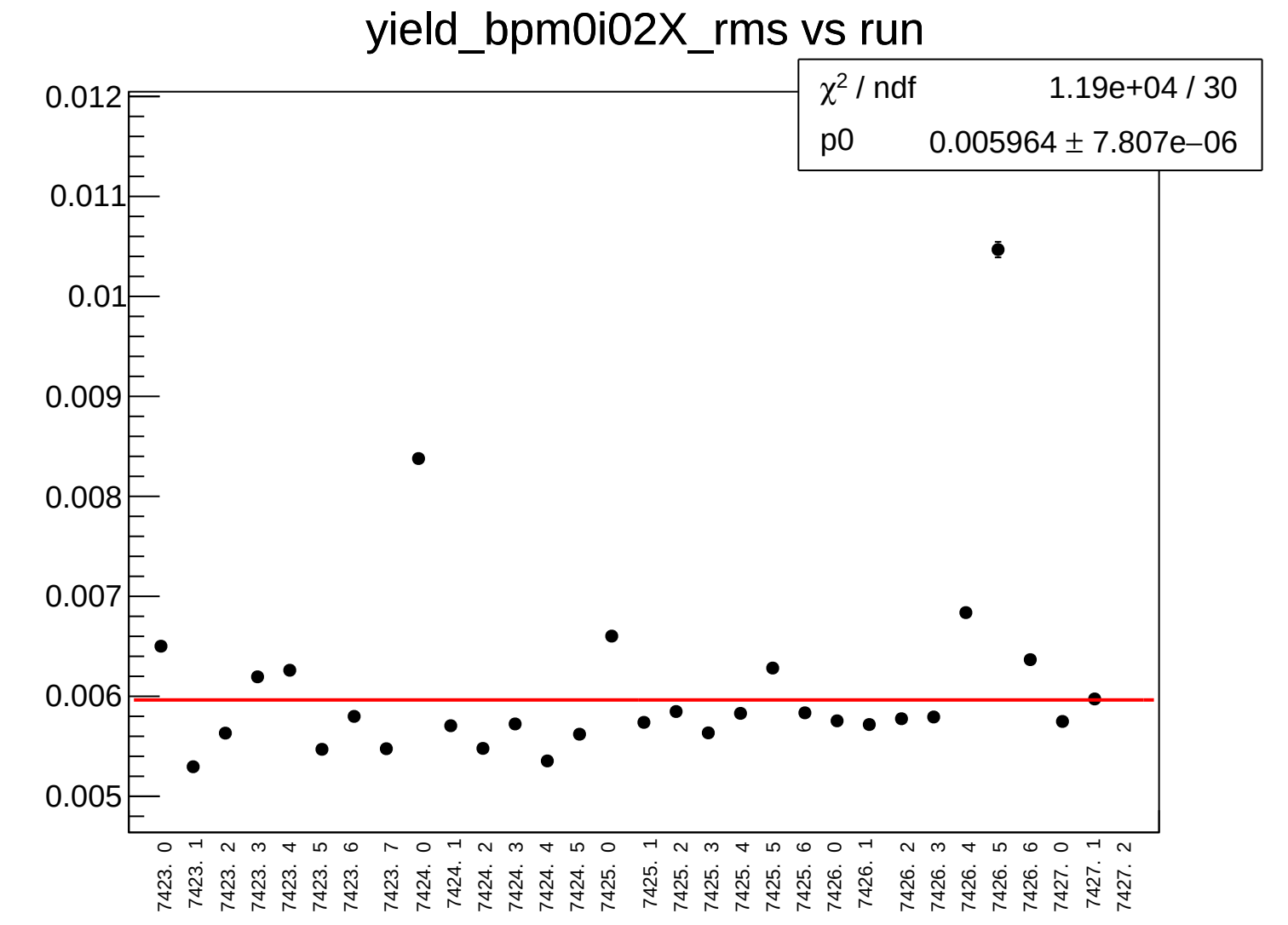

yield_bpm16Y_mean vs run
χ² / ndf 2.279e+04 / 30
p0 −0.2281 ± 8.096e−06
−0.22
−0.225
−0.23
−0.235
−0.24
−0.245
−0.25
−0.255
−0.26
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 27.55
Std Dev 43.68
60
40
20
0
−20
−40
−60
−80

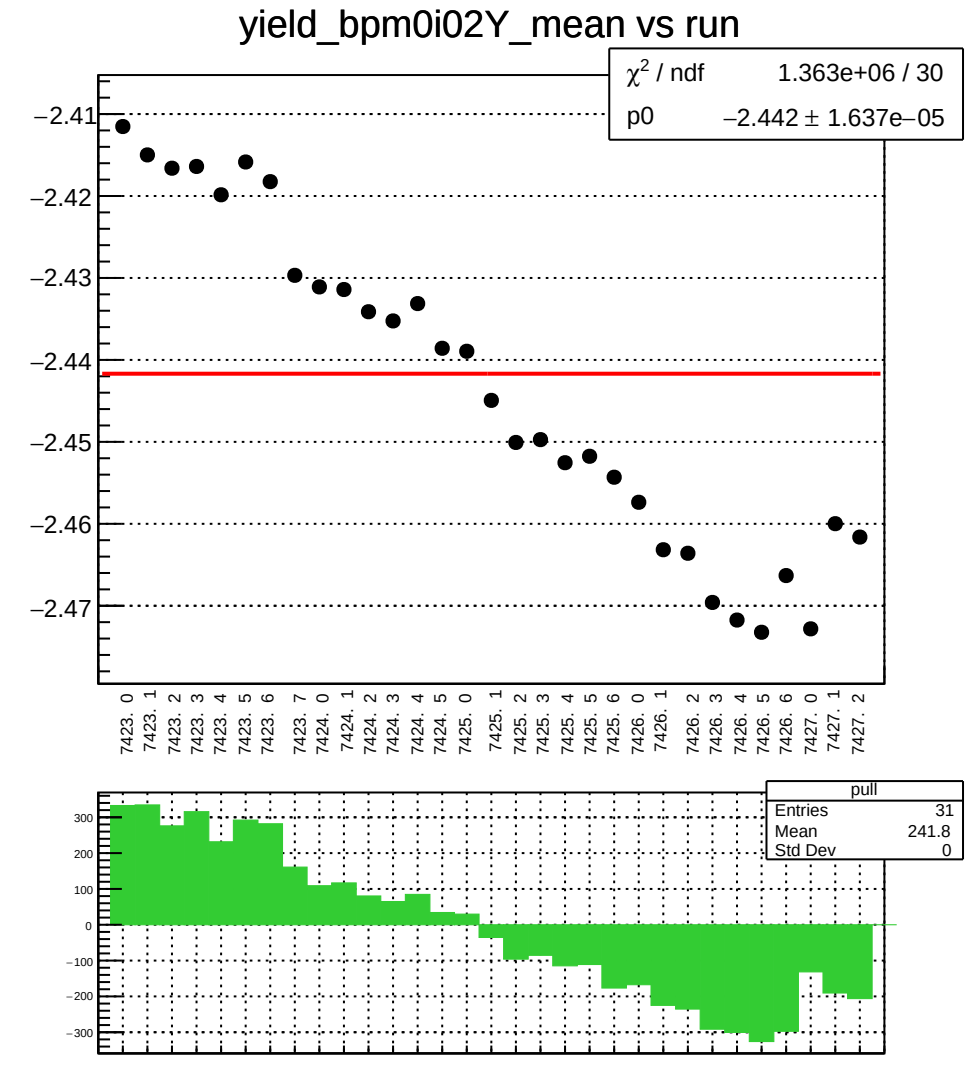

pull1D
Entries 31
Mean 0.3201
Std Dev 4.198
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

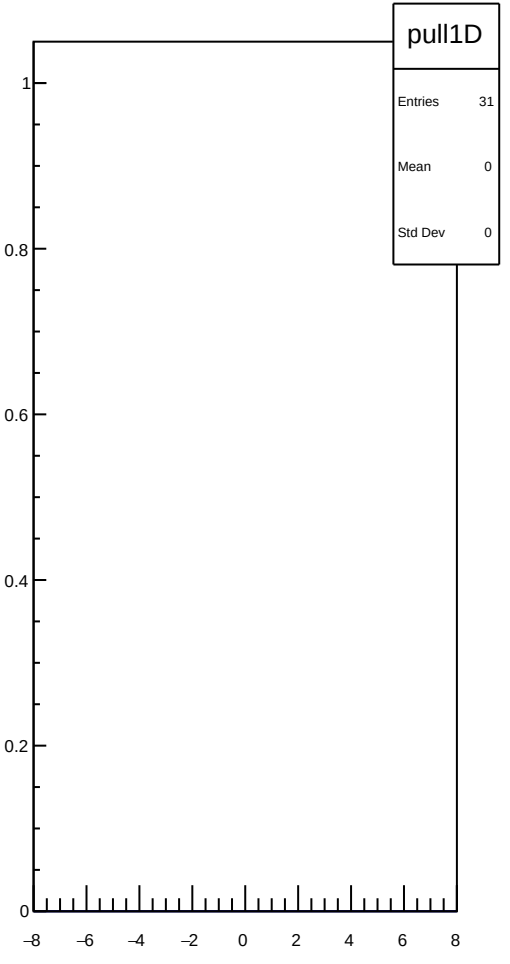

yield_bpm16Y_rms vs run
χ² / ndf 4.772e+04 / 30
p0 0.004237 ± 5.725e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

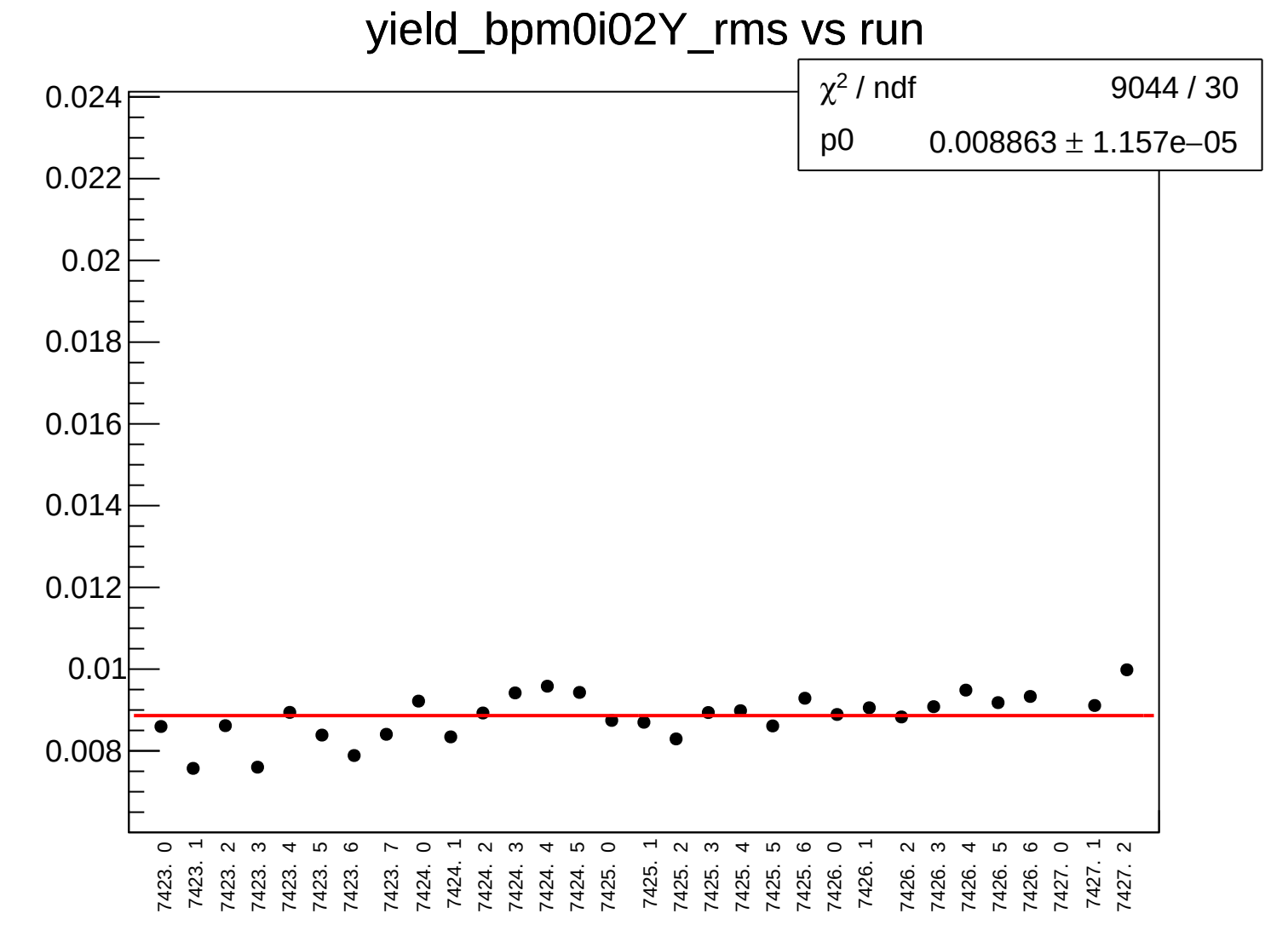

yield_bpm0i02X_mean vs run
χ² / ndf 2.102e+06 / 30
p0 −0.3919 ± 1.104e−05
−0.36
−0.37
−0.38
−0.39
−0.4
−0.41
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 421
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

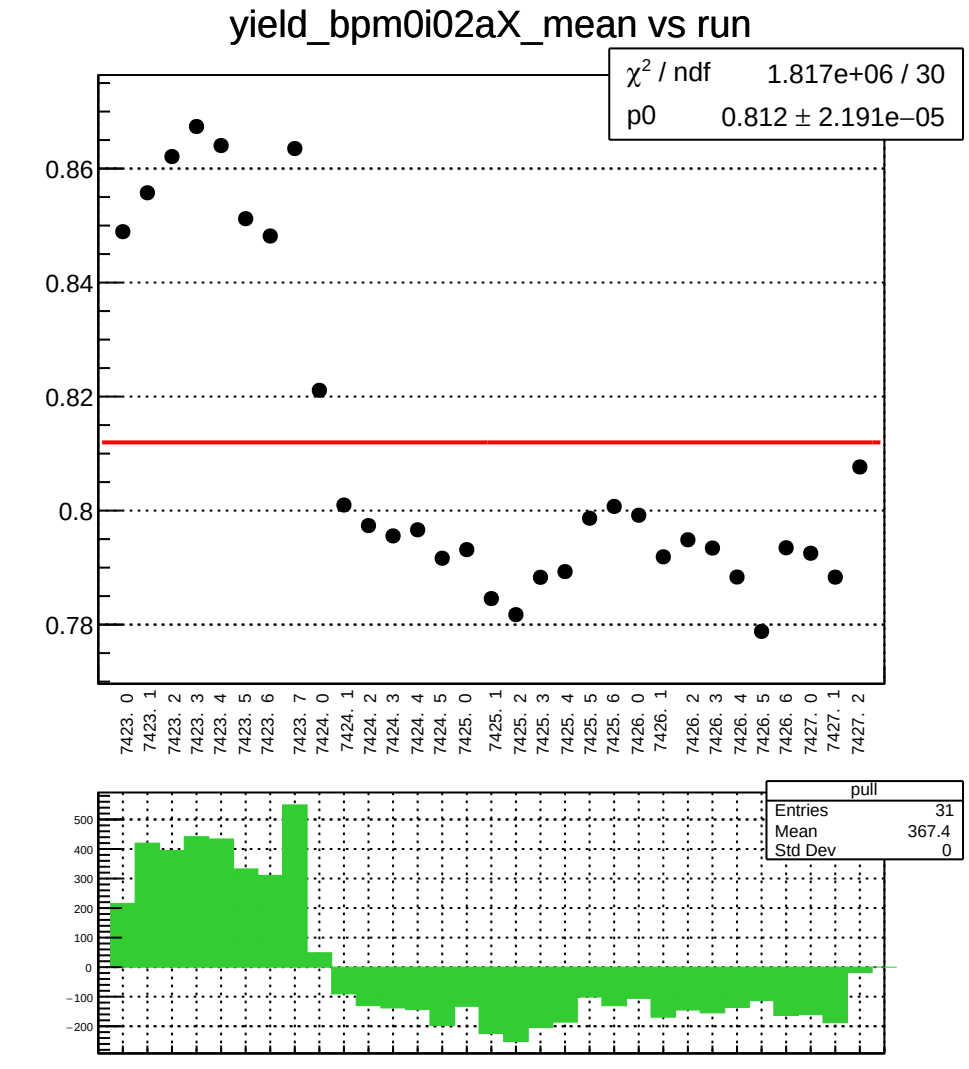

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

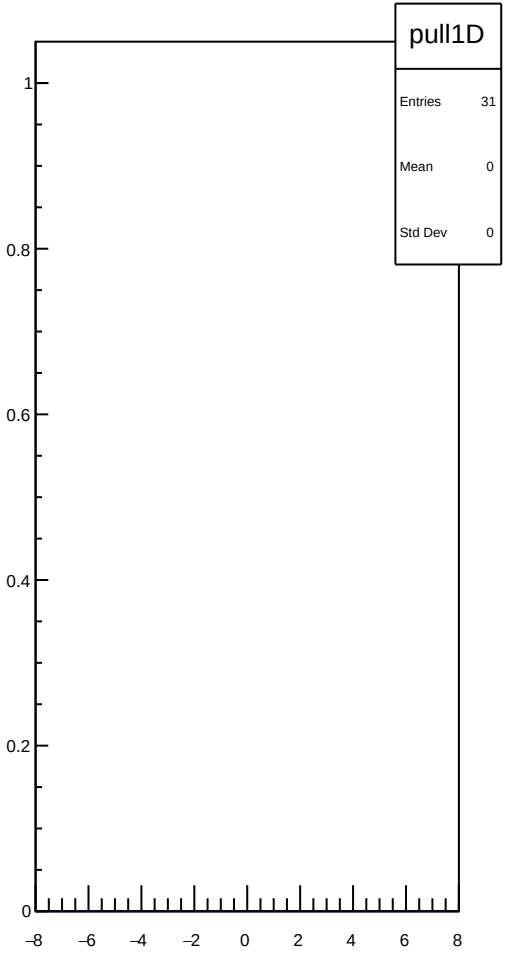

yield_bpm0i02X_rms vs run
χ² / ndf 1.19e+04 / 30
p0 0.005964 ± 7.807e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

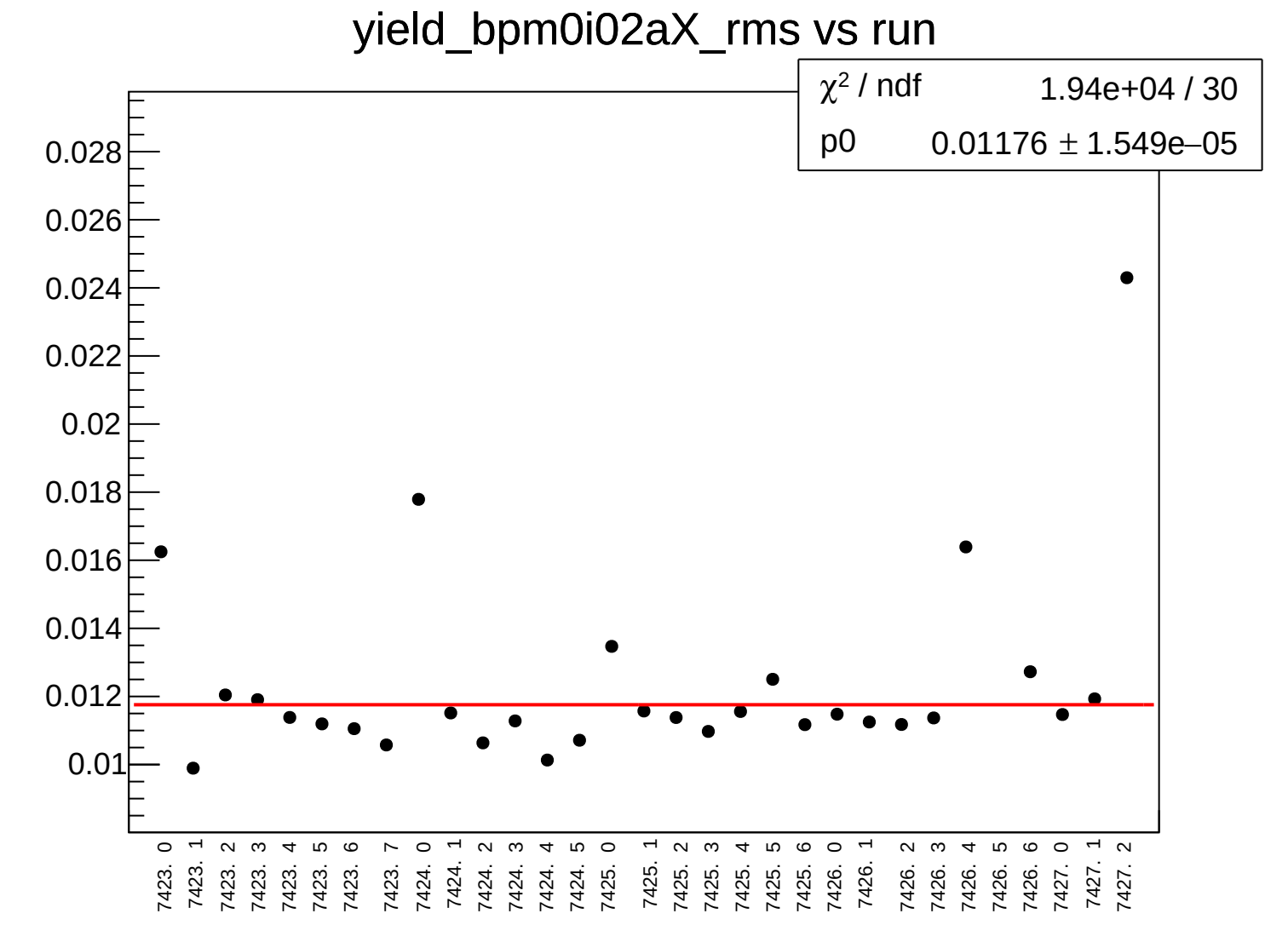

yield_bpm0i02Y_mean vs run
χ² / ndf 1.363e+06 / 30
p0 −2.442 ± 1.637e−05
−2.41
−2.42
−2.43
−2.44
−2.45
−2.46
−2.47
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 241.8
Std Dev 0
300
200
100
0
−100
−200
−300

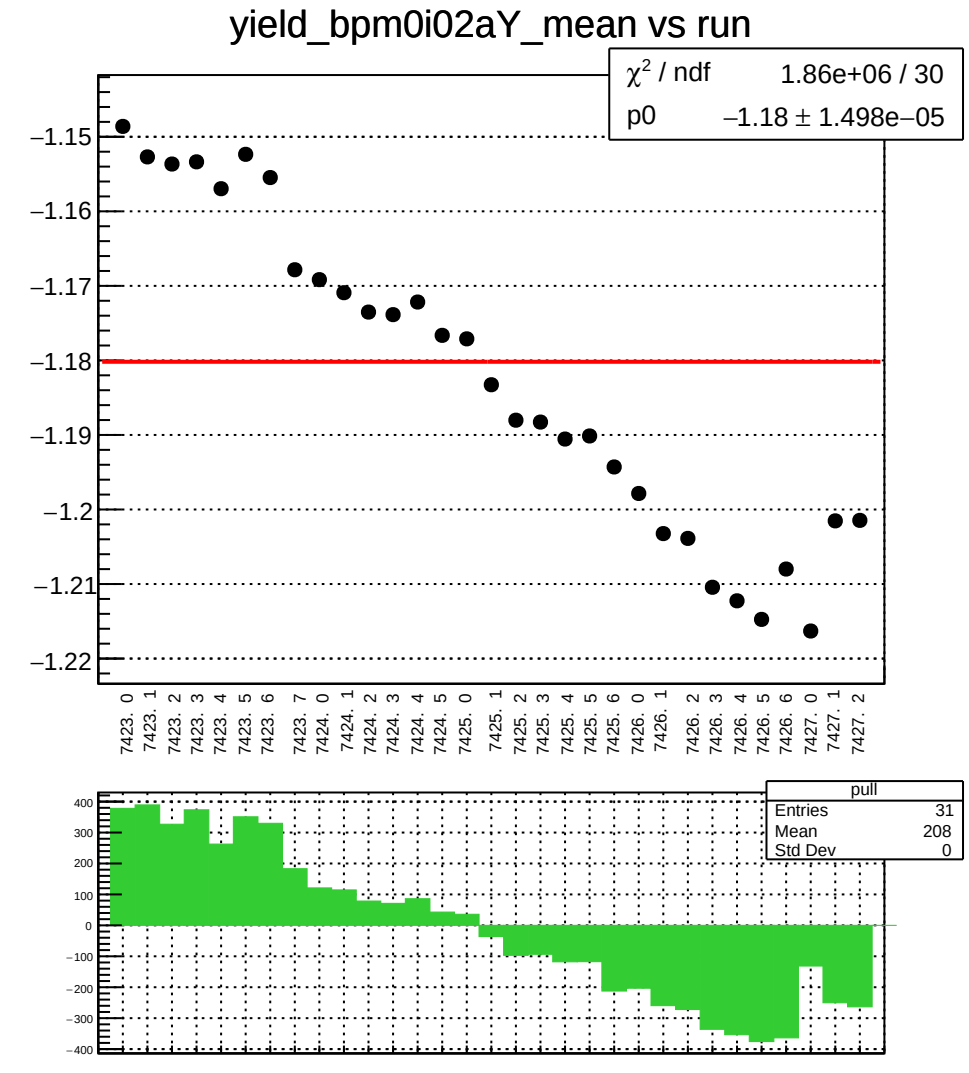

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

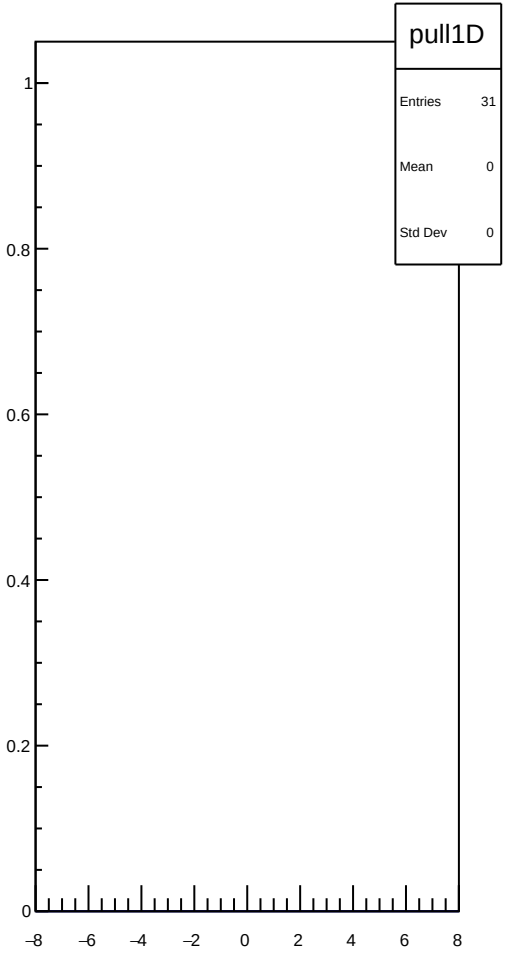

yield_bpm0i02Y_rms vs run
χ² / ndf 9044 / 30
p0 0.008863 ± 1.157e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

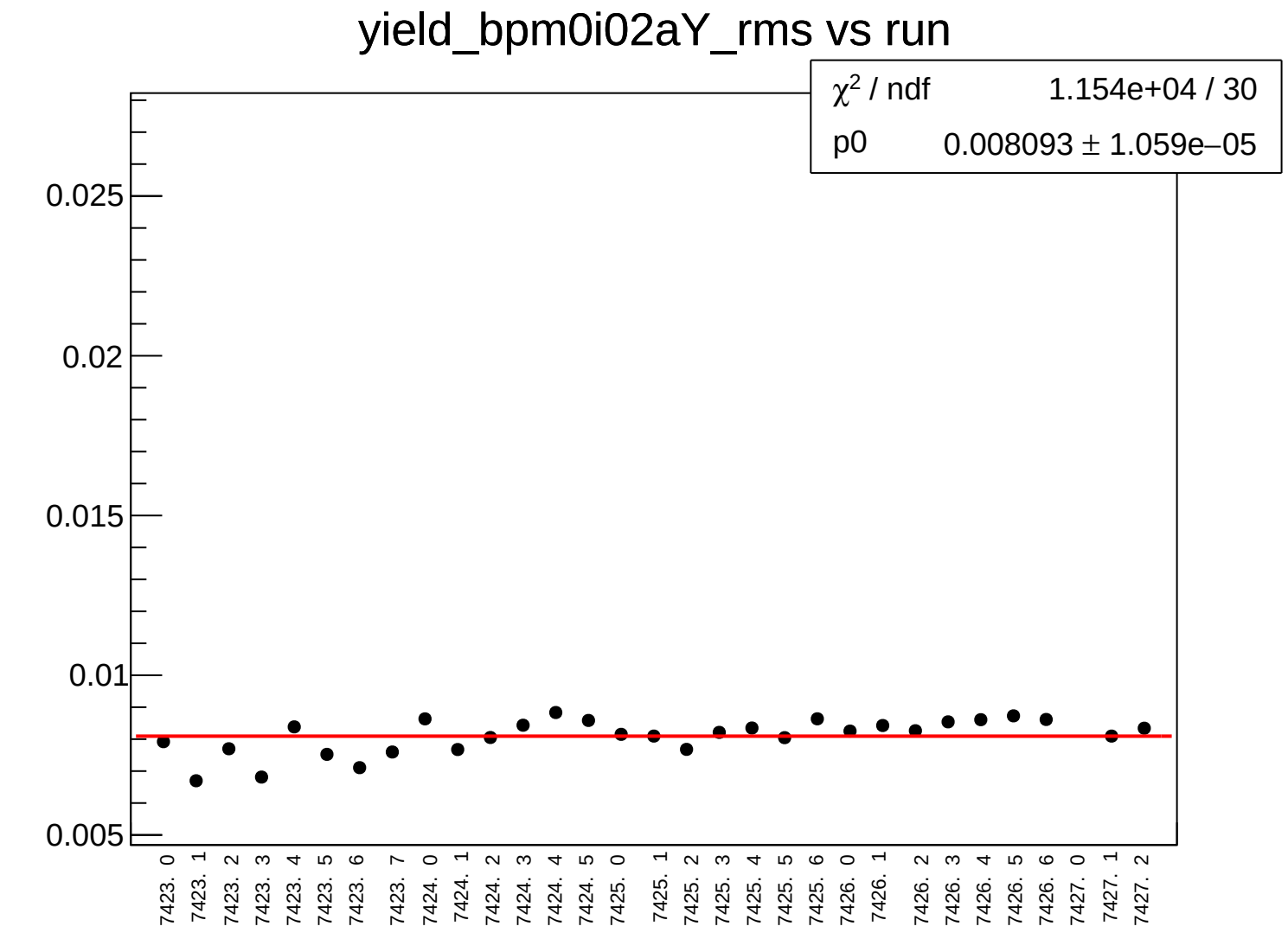

yield_bpm0i02aX_mean vs run
χ² / ndf 1.817e+06 / 30
p0 0.812 ± 2.191e−05
0.86
0.84
0.82
0.8
0.78
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 367.4
Std Dev 0
500
400
300
200
100
0
−100
−200

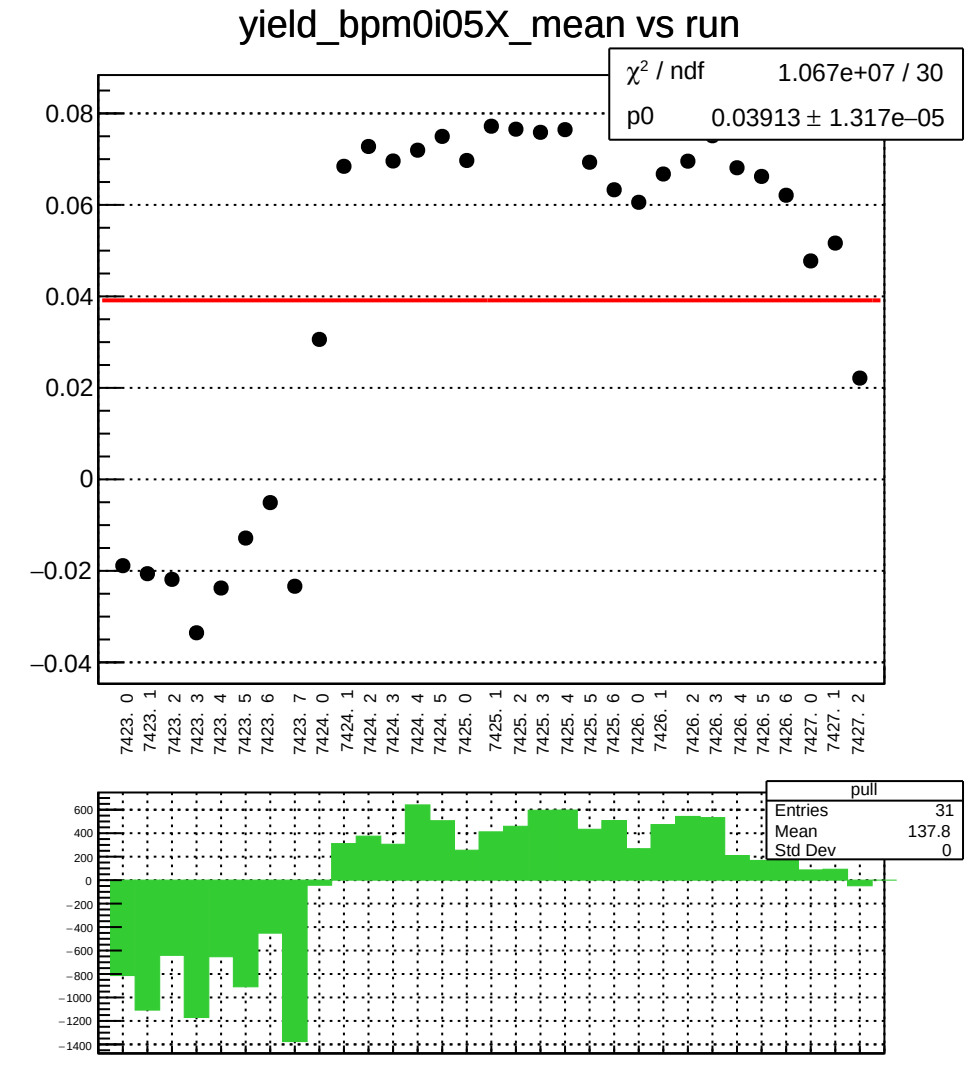

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

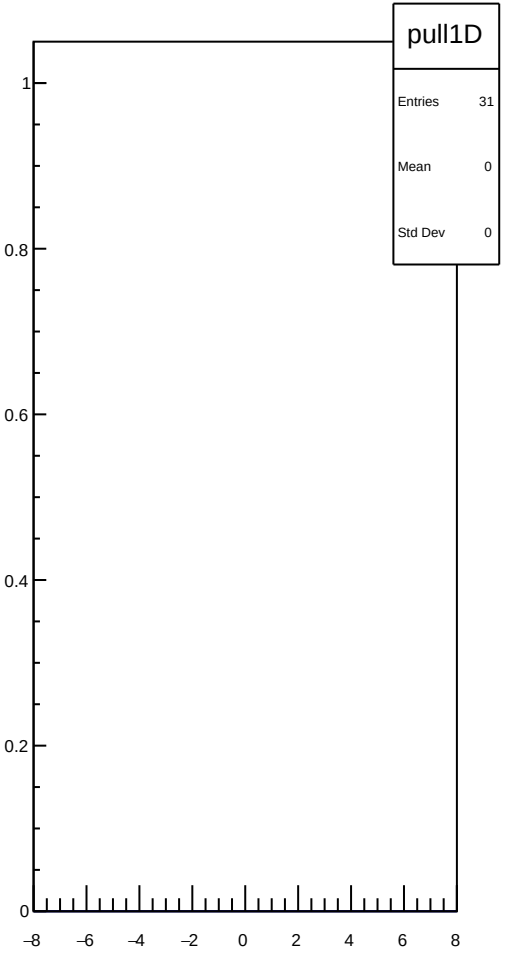

yield_bpm0i02aX_rms vs run
χ² / ndf 1.94e+04 / 30
p0 0.01176 ± 1.549e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

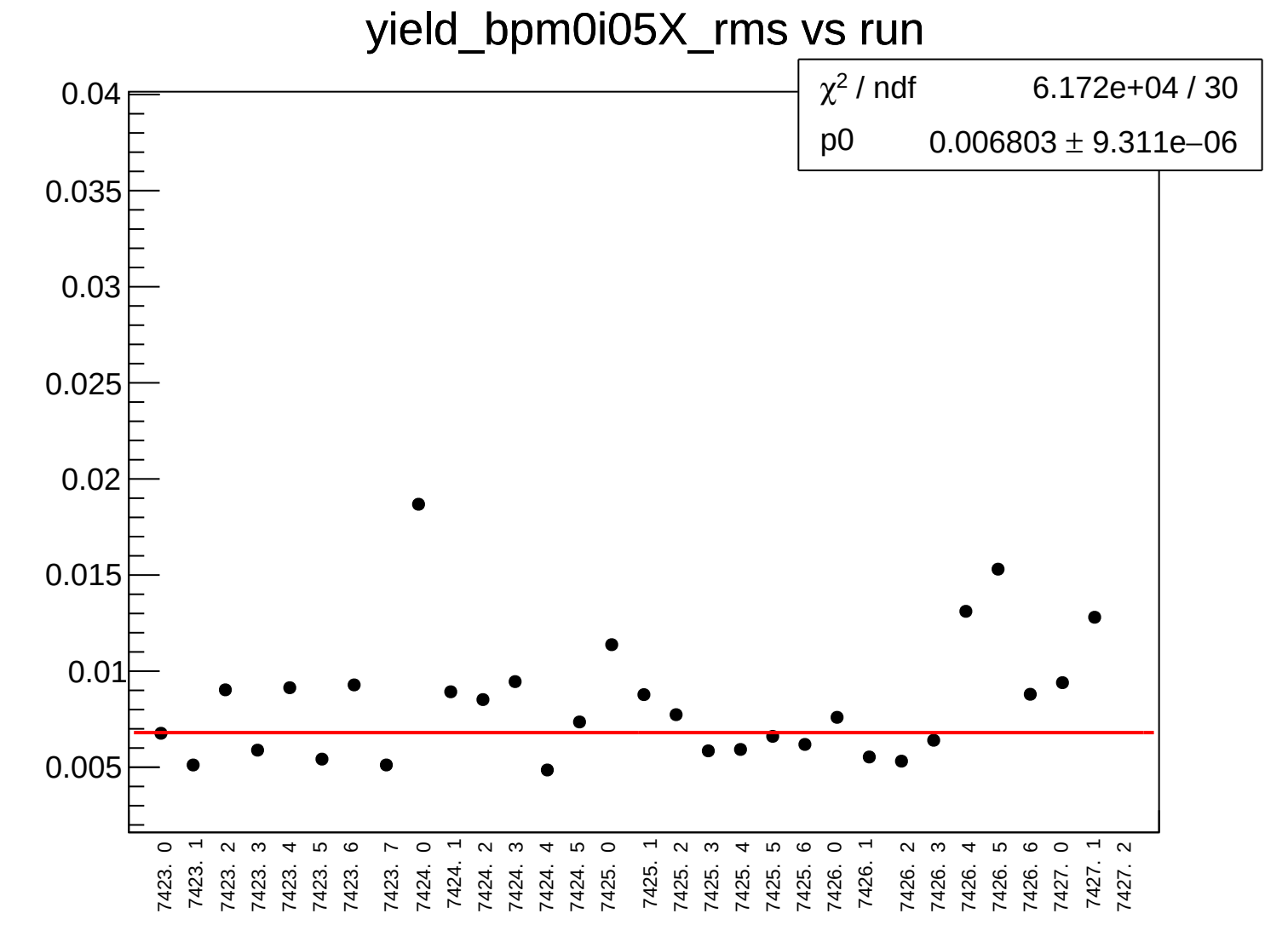

yield_bpm0i02aY_mean vs run
χ² / ndf 1.86e+06 / 30
p0 −1.18 ± 1.498e−05
−1.15
−1.16
−1.17
−1.18
−1.19
−1.2
−1.21
−1.22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 208
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

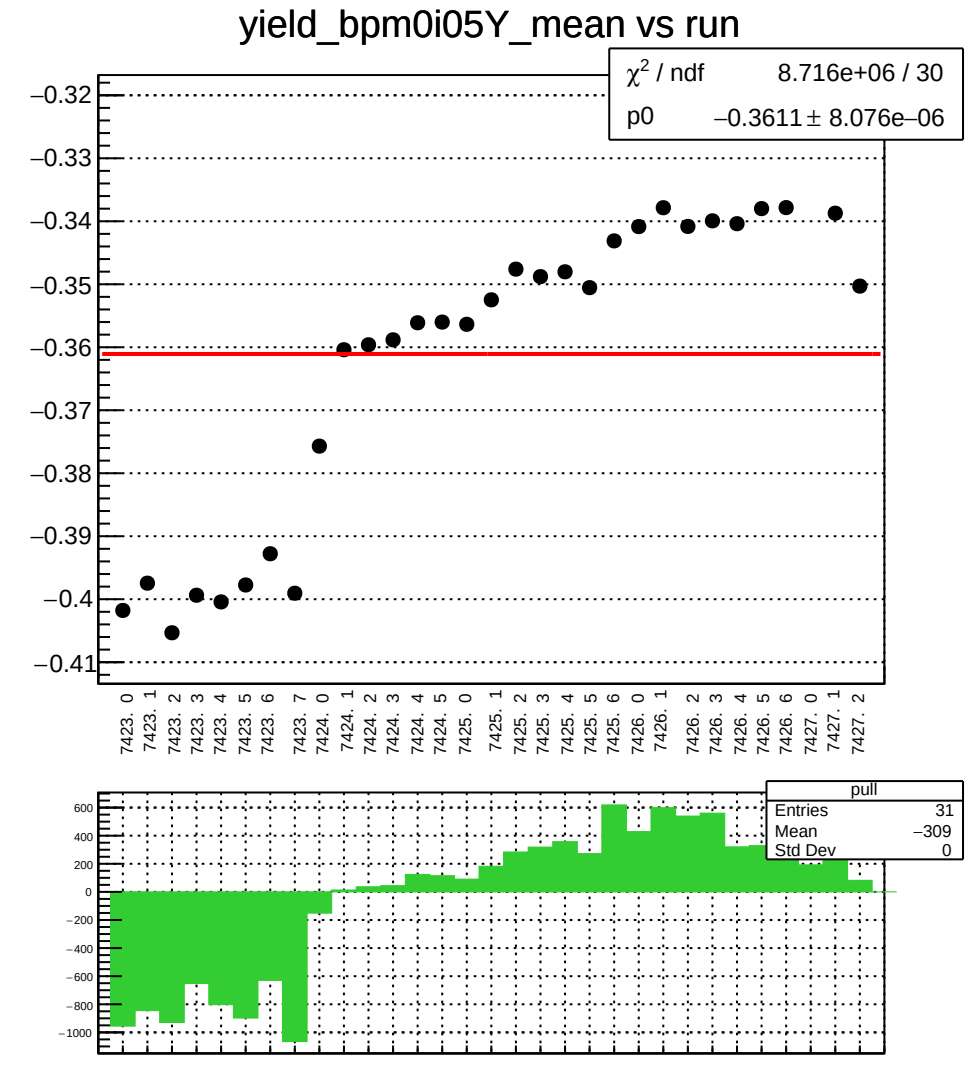

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

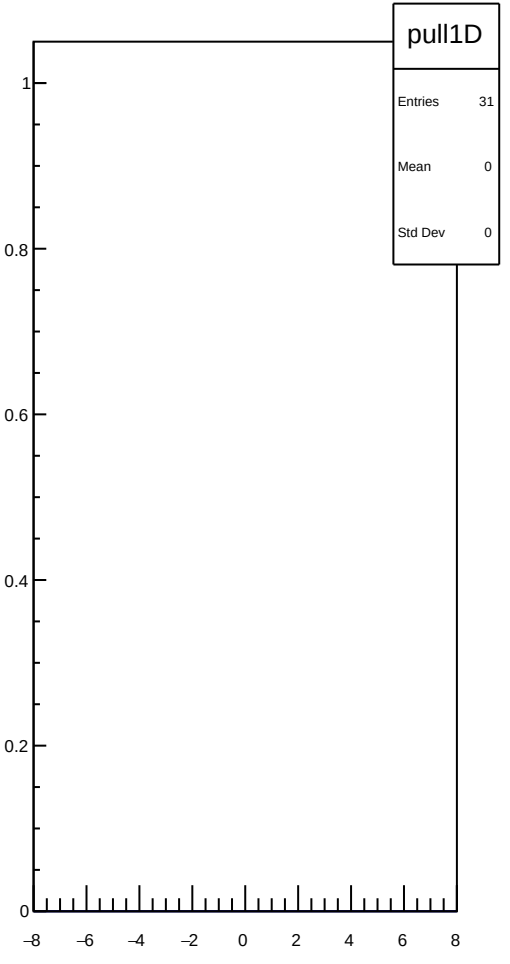

yield_bpm0i02aY_rms vs run
χ² / ndf 1.154e+04 / 30
p0 0.008093 ± 1.059e−05
0.025
0.02
0.015
0.01
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

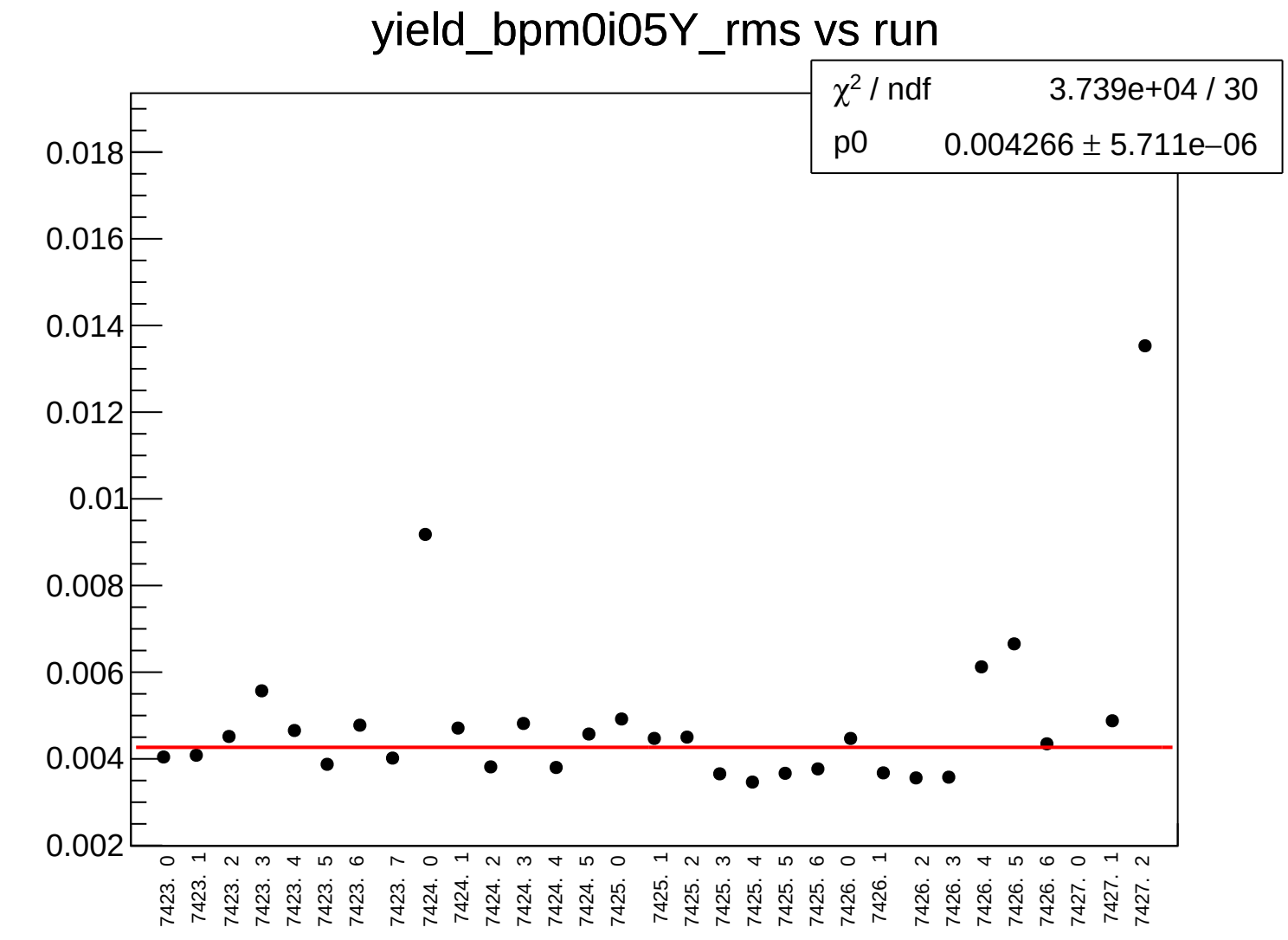

yield_bpm0i05X_mean vs run
χ² / ndf 1.067e+07 / 30
p0 0.03913 ± 1.317e–05
0.08
0.06
0.04
0.02
0
–0.02
–0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 137.8
Std Dev 0
600
400
200
0
–200
–400
–600
–800
–1000
–1200
–1400

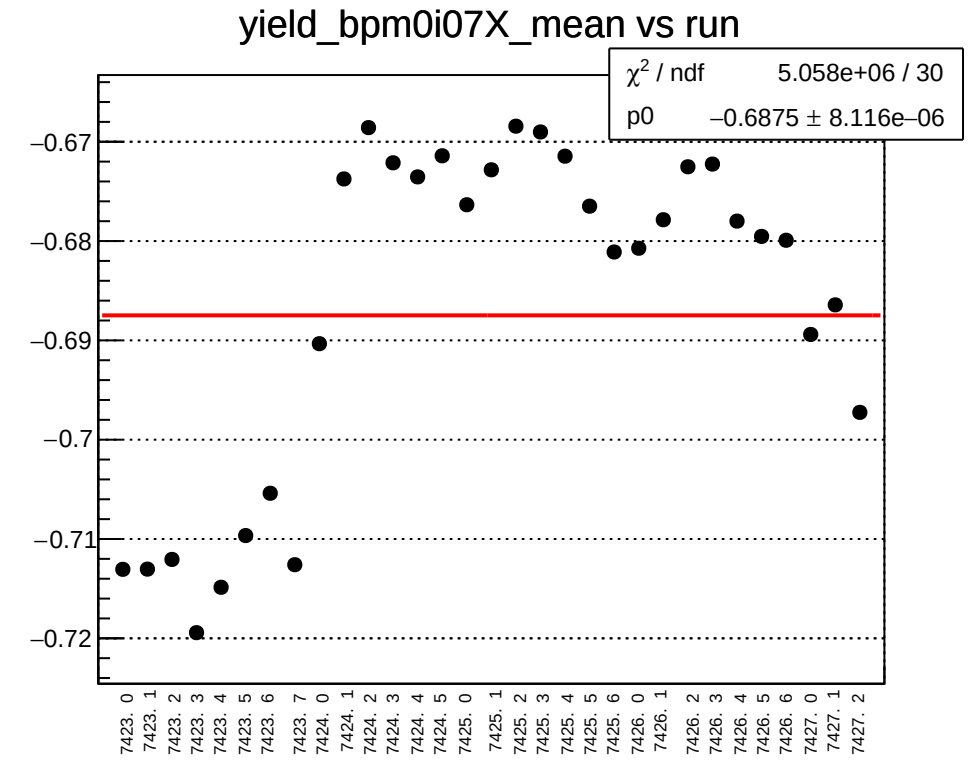

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

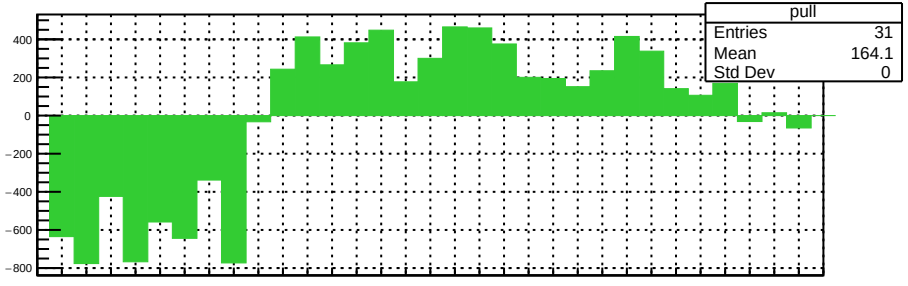

yield_bpm0i05X_rms vs run
χ² / ndf 6.172e+04 / 30
p0 0.006803 ± 9.311e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

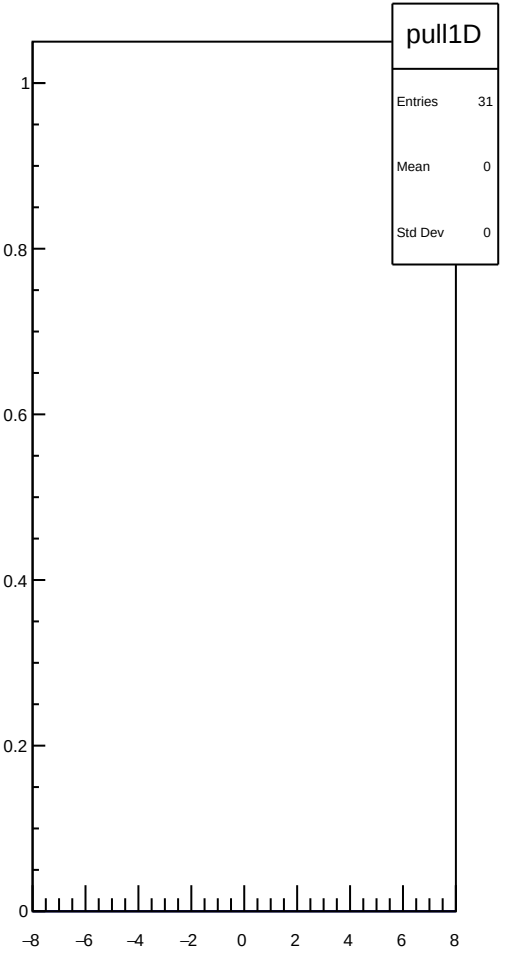

yield_bpm0i05Y_mean vs run
χ² / ndf 8.716e+06 / 30
p0 −0.3611 ± 8.076e−06
−0.32
−0.33
−0.34
−0.35
−0.36
−0.37
−0.38
−0.39
−0.4
−0.41
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −309
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

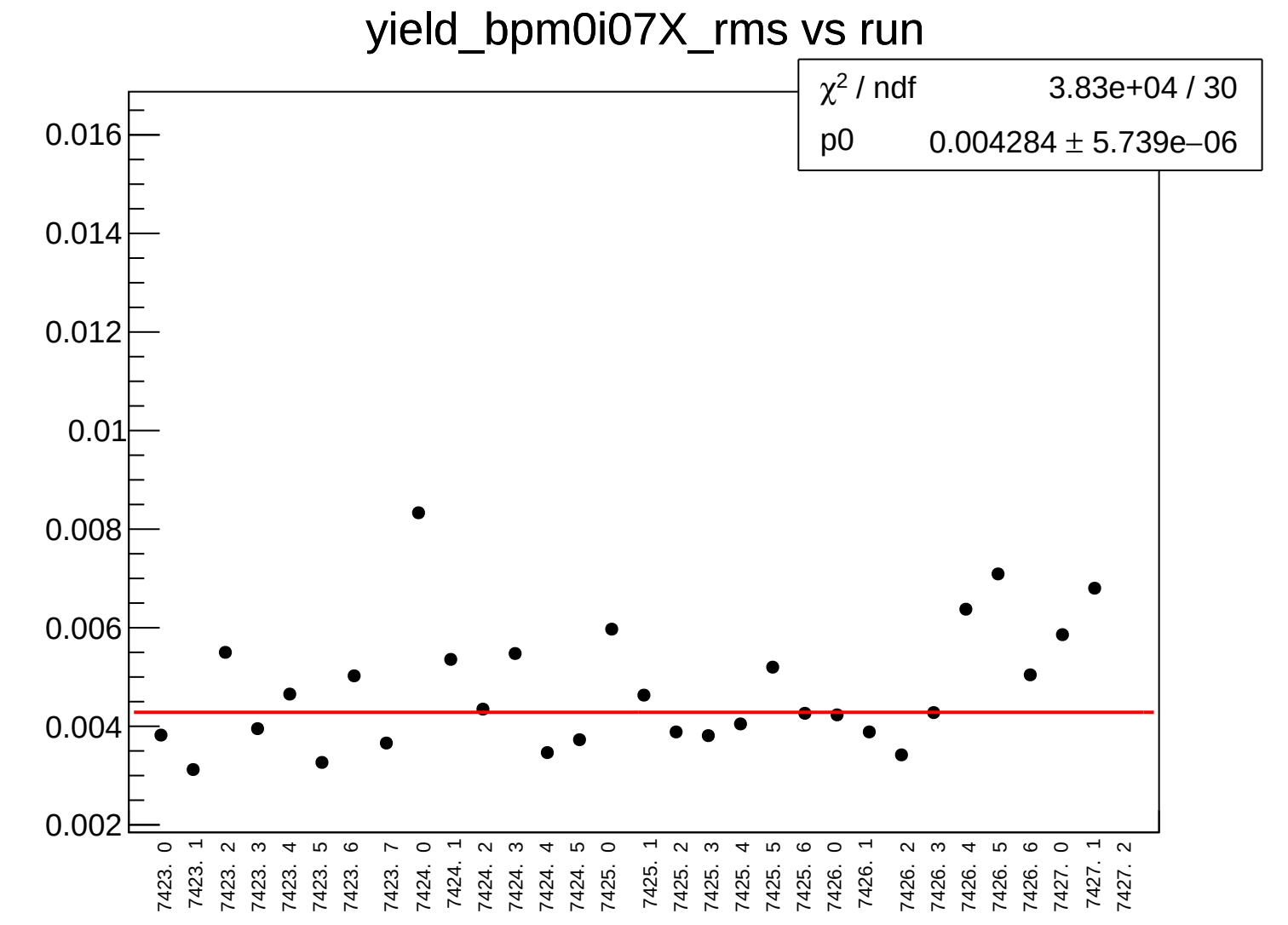

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

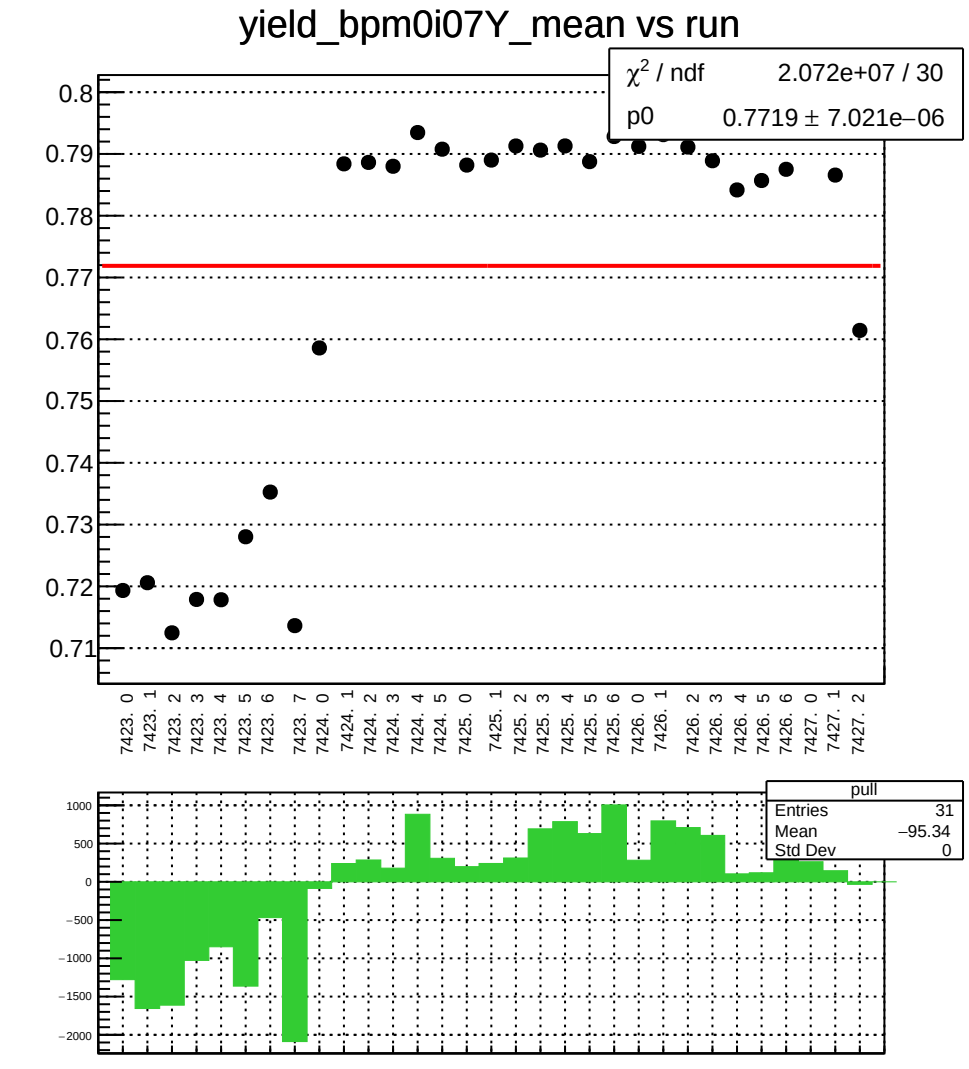

yield_bpm0i05Y_rms vs run
χ² / ndf 3.739e+04 / 30
p0 0.004266 ± 5.711e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

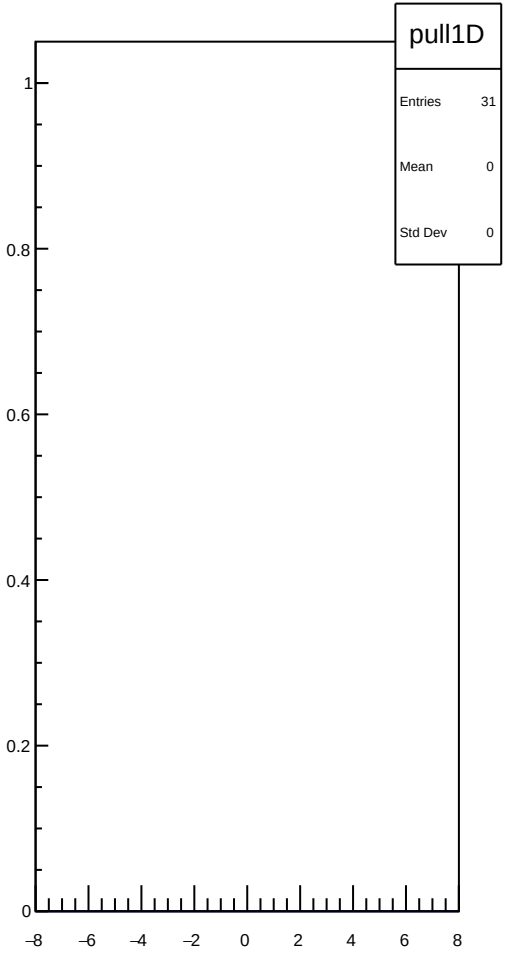

yield_bpm0i07X_mean vs run
χ² / ndf 5.058e+06 / 30
p0 −0.6875 ± 8.116e−06
−0.67
−0.68
−0.69
−0.7
−0.71
−0.72
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

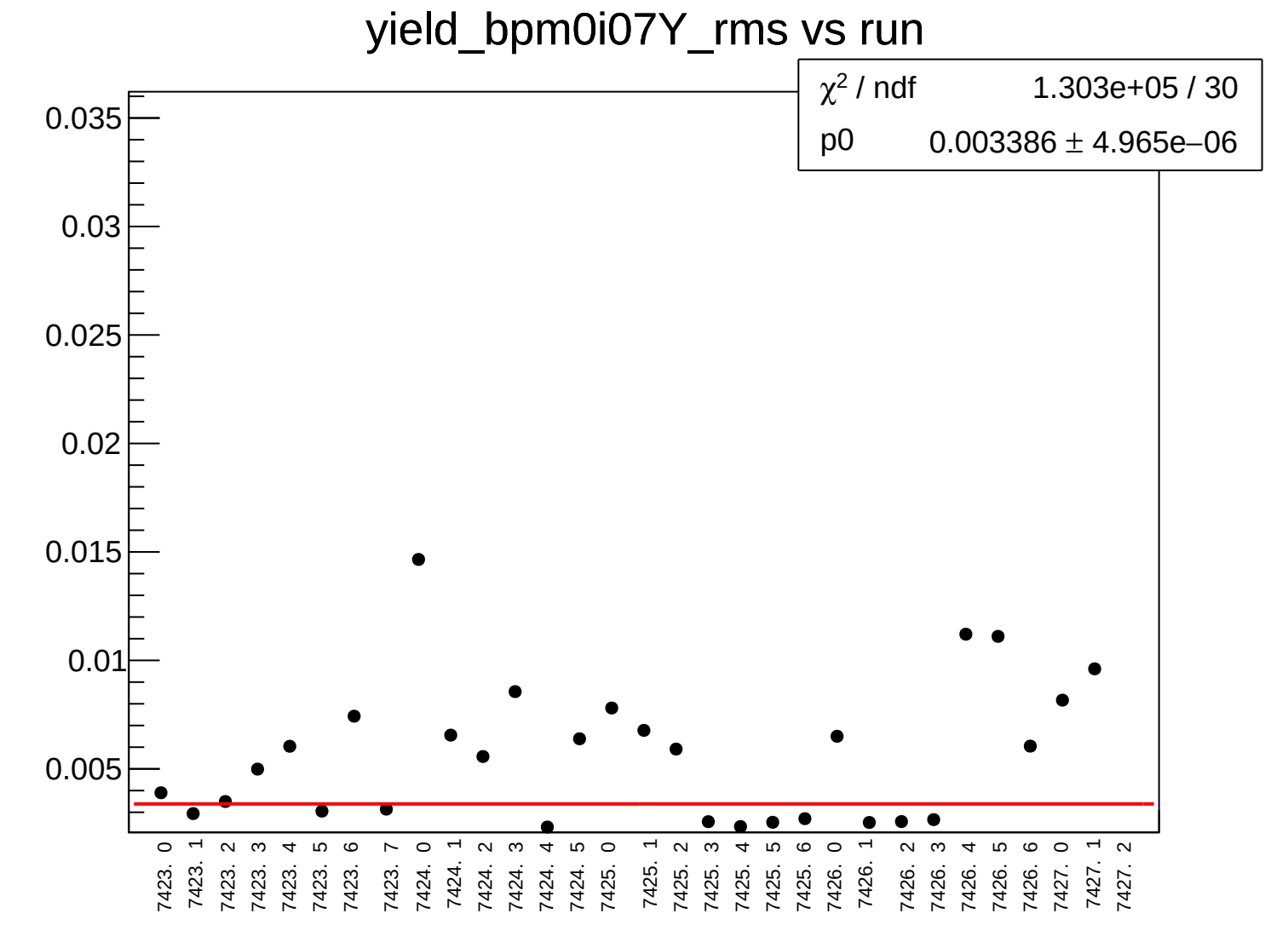

pull
Entries 31
Mean 164.1
Std Dev 0
400
200
0
−200
−400
−600
−800

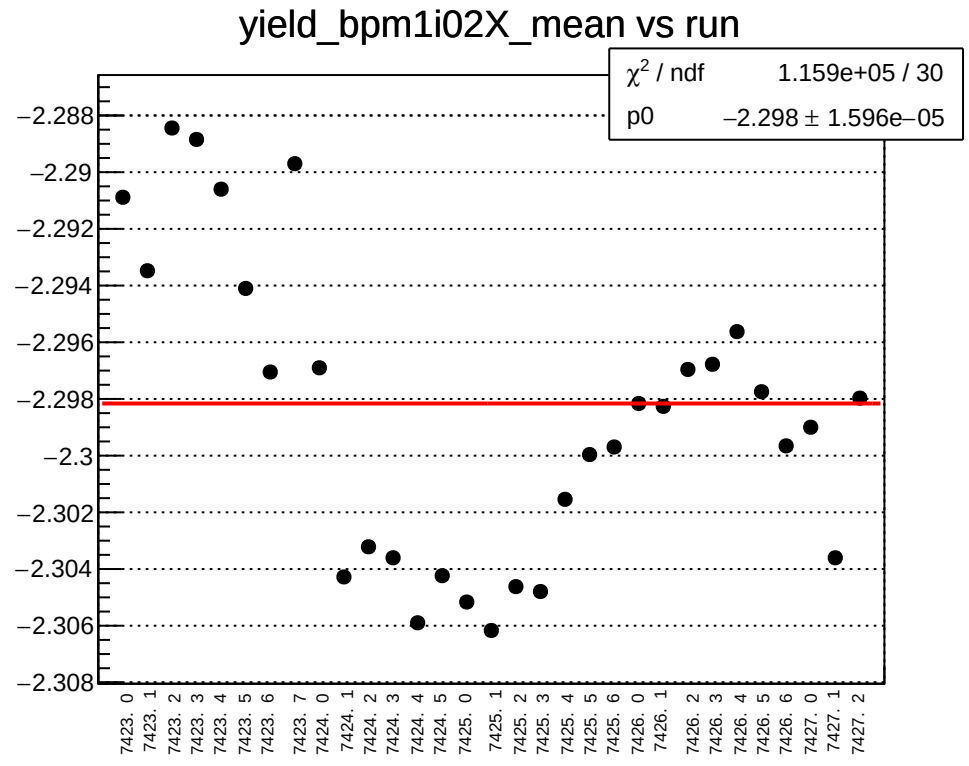

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

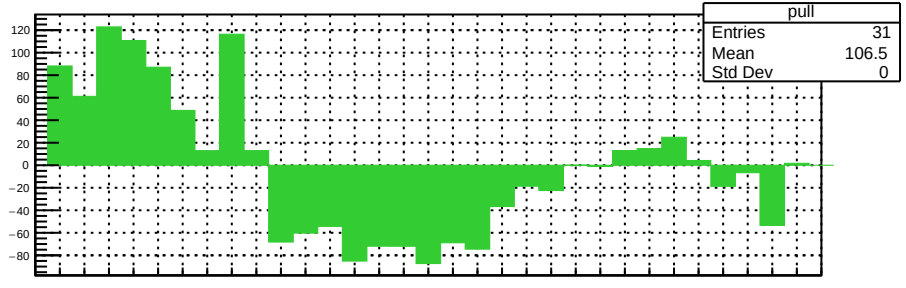

yield_bpm0i07X_rms vs run
χ² / ndf 3.83e+04 / 30
p0 0.004284 ± 5.739e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

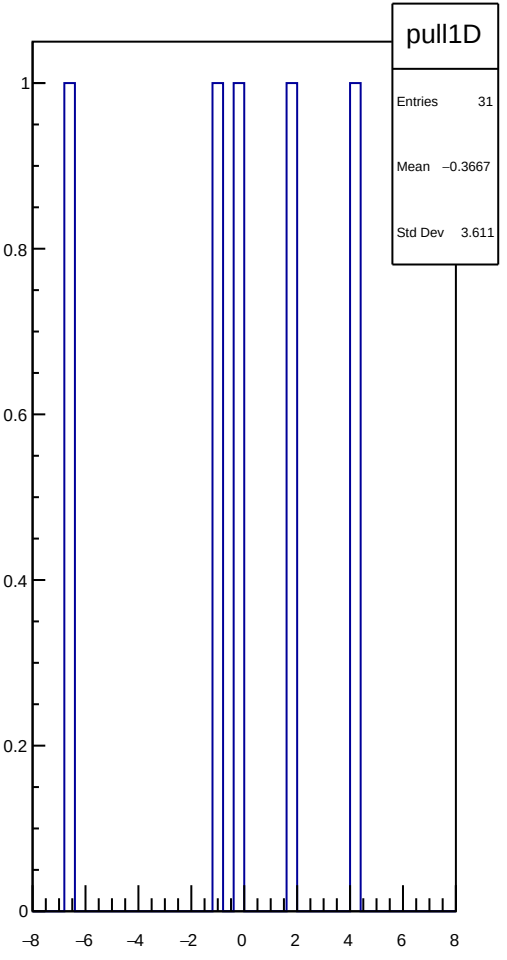

yield_bpm0i07Y_mean vs run
χ² / ndf 2.072e+07 / 30
p0 0.7719 ± 7.021e−06
0.8
0.79
0.78
0.77
0.76
0.75
0.74
0.73
0.72
0.71
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −95.34
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

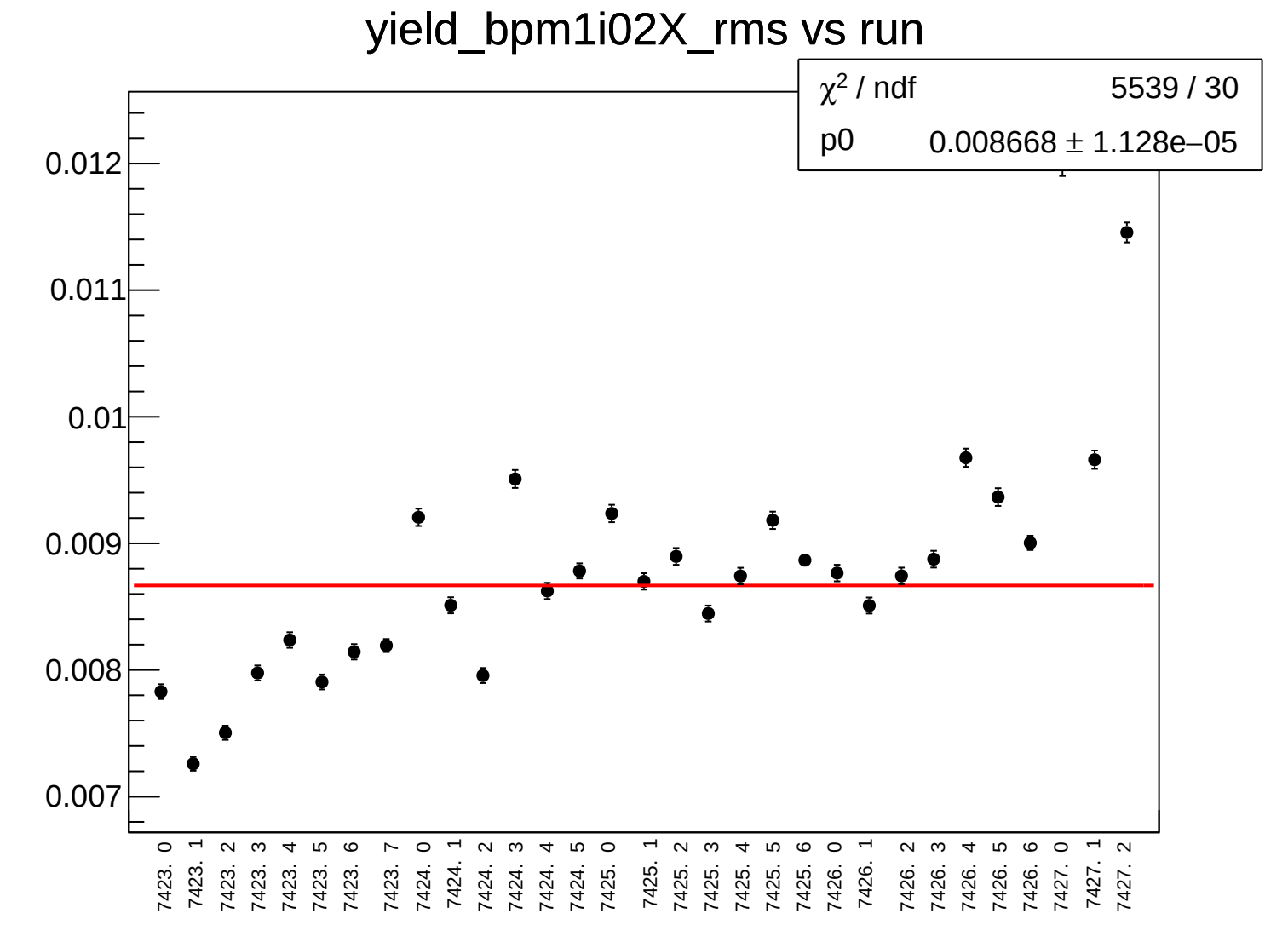

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

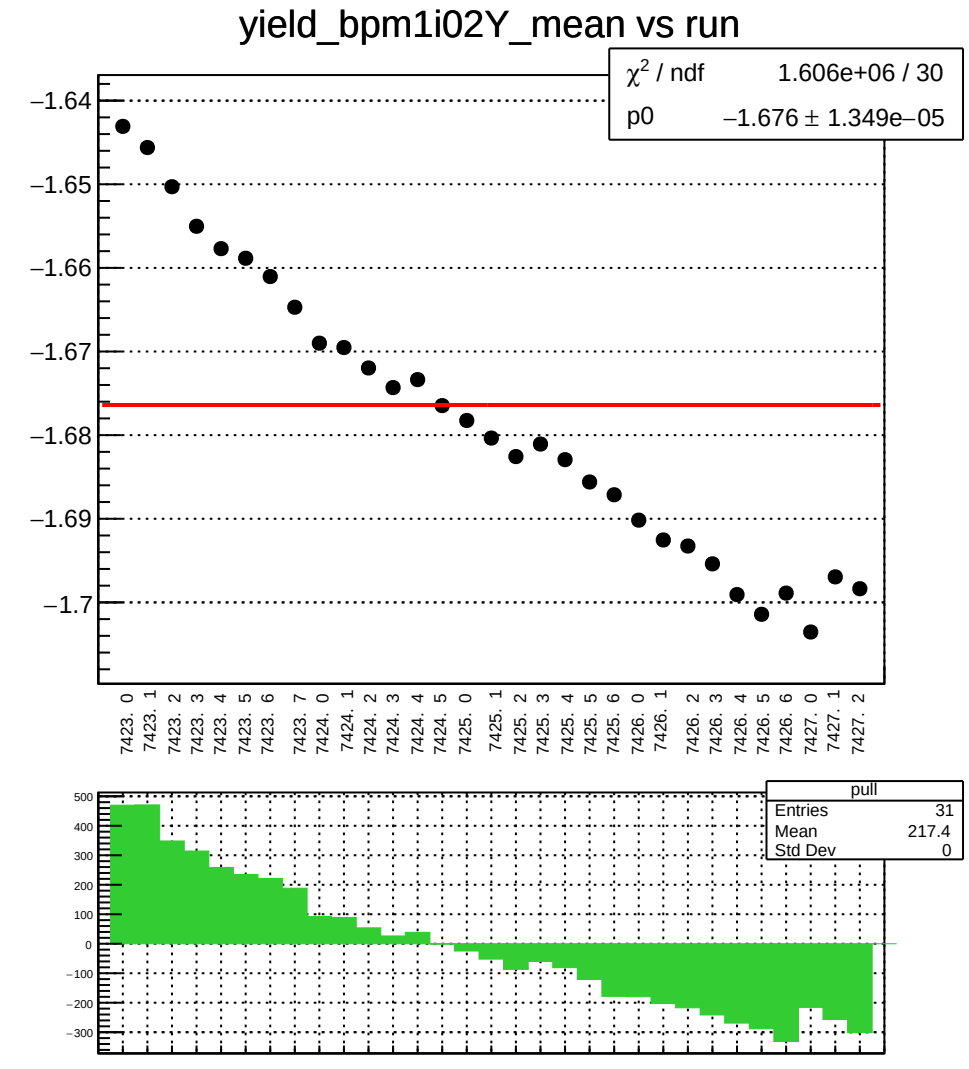

yield_bpm0i07Y_rms vs run
χ² / ndf 1.303e+05 / 30
p0 0.003386 ± 4.965e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

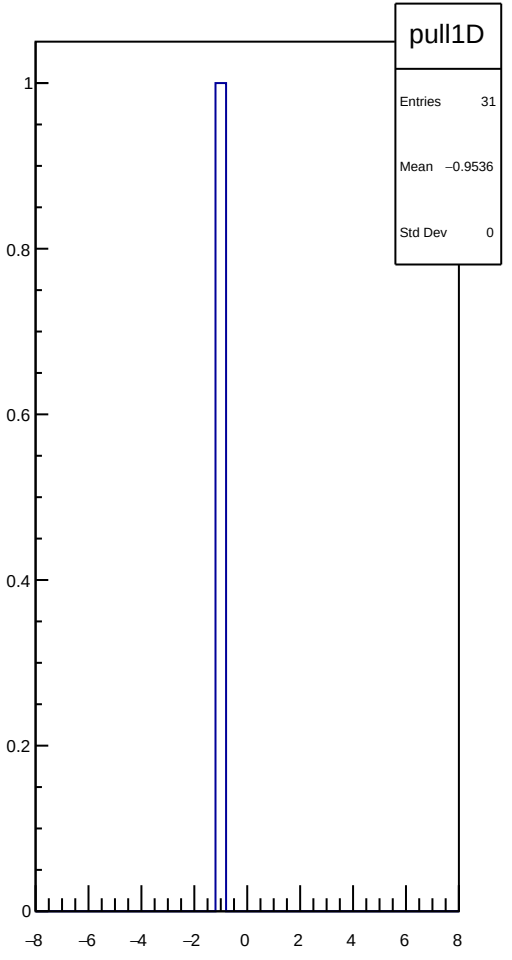

yield_bpm1i02X_mean vs run
χ² / ndf 1.159e+05 / 30
p0 −2.298 ± 1.596e−05
−2.288
−2.29
−2.292
−2.294
−2.296
−2.298
−2.3
−2.302
−2.304
−2.306
−2.308
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

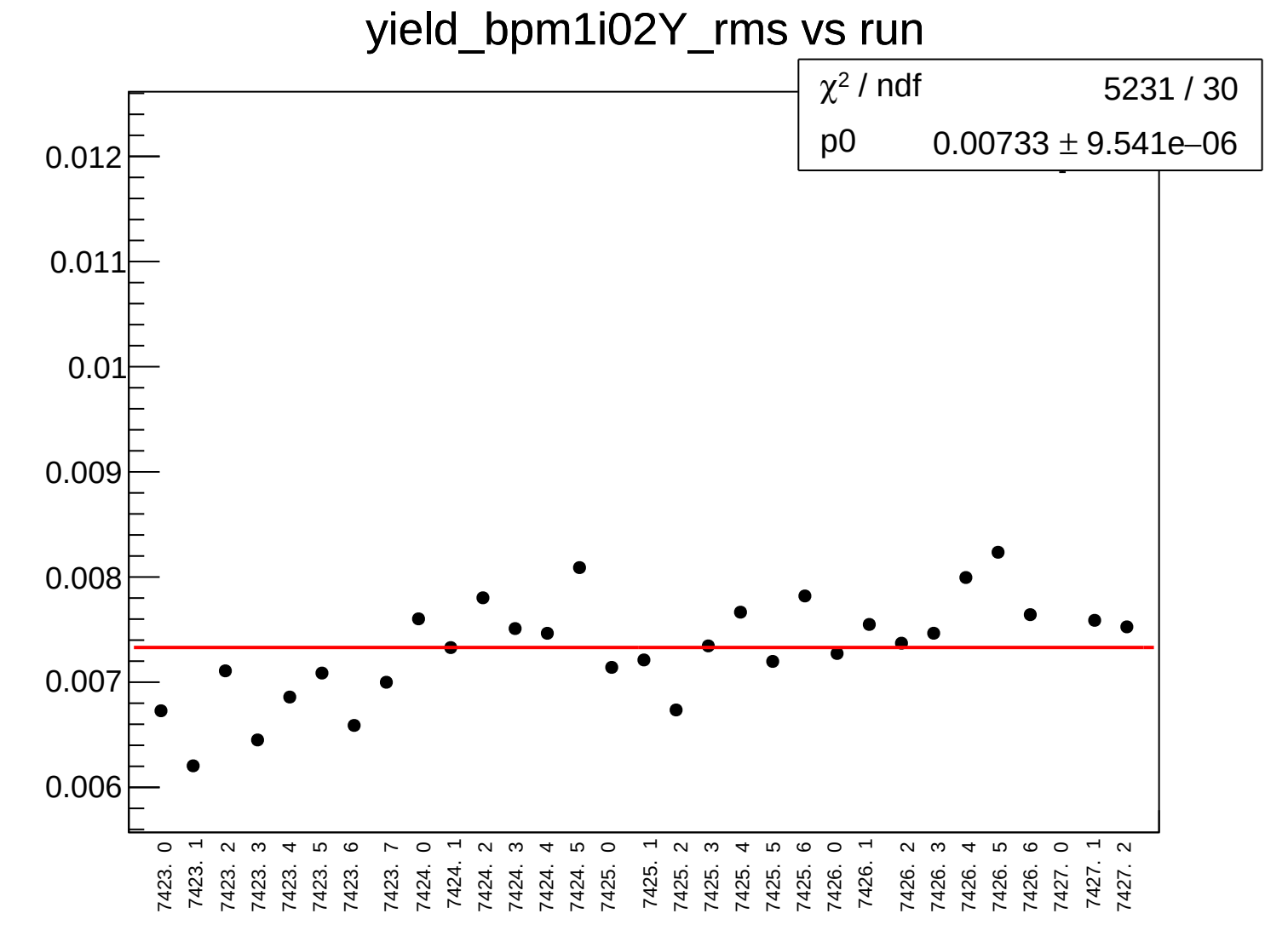

pull
Entries 31
Mean 106.5
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

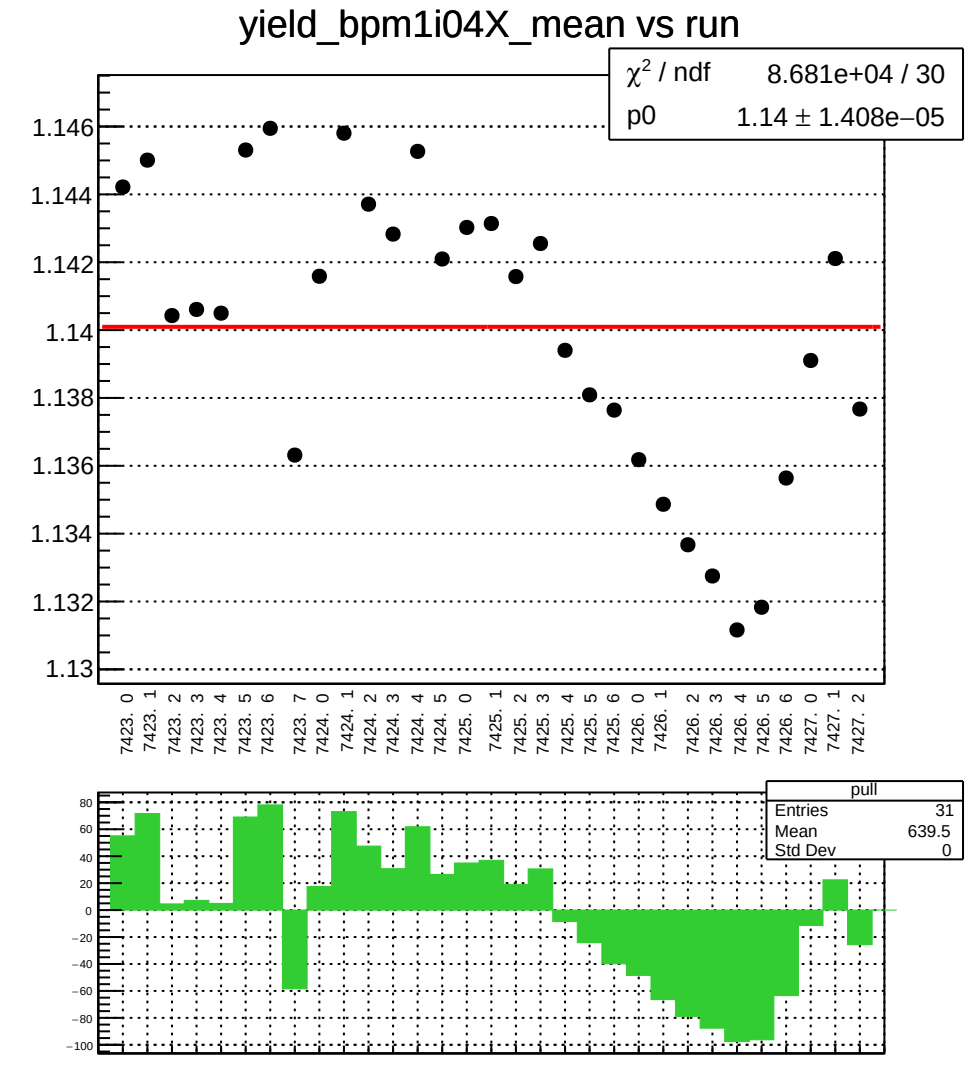

pull1D
Entries 31
Mean −0.3667
Std Dev 3.611
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

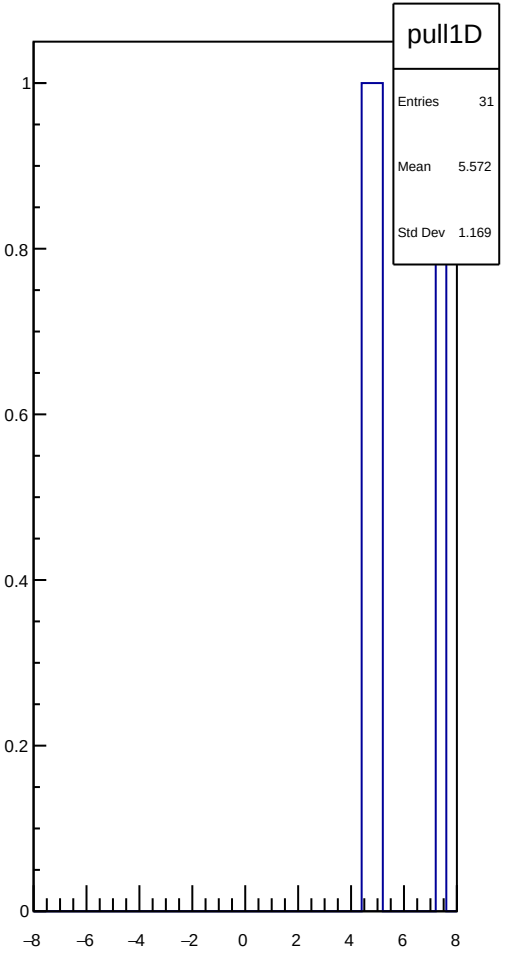

yield_bpm1i02X_rms vs run
χ² / ndf 5539 / 30
p0 0.008668 ± 1.128e−05
0.012
0.011
0.01
0.009
0.008
0.007
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

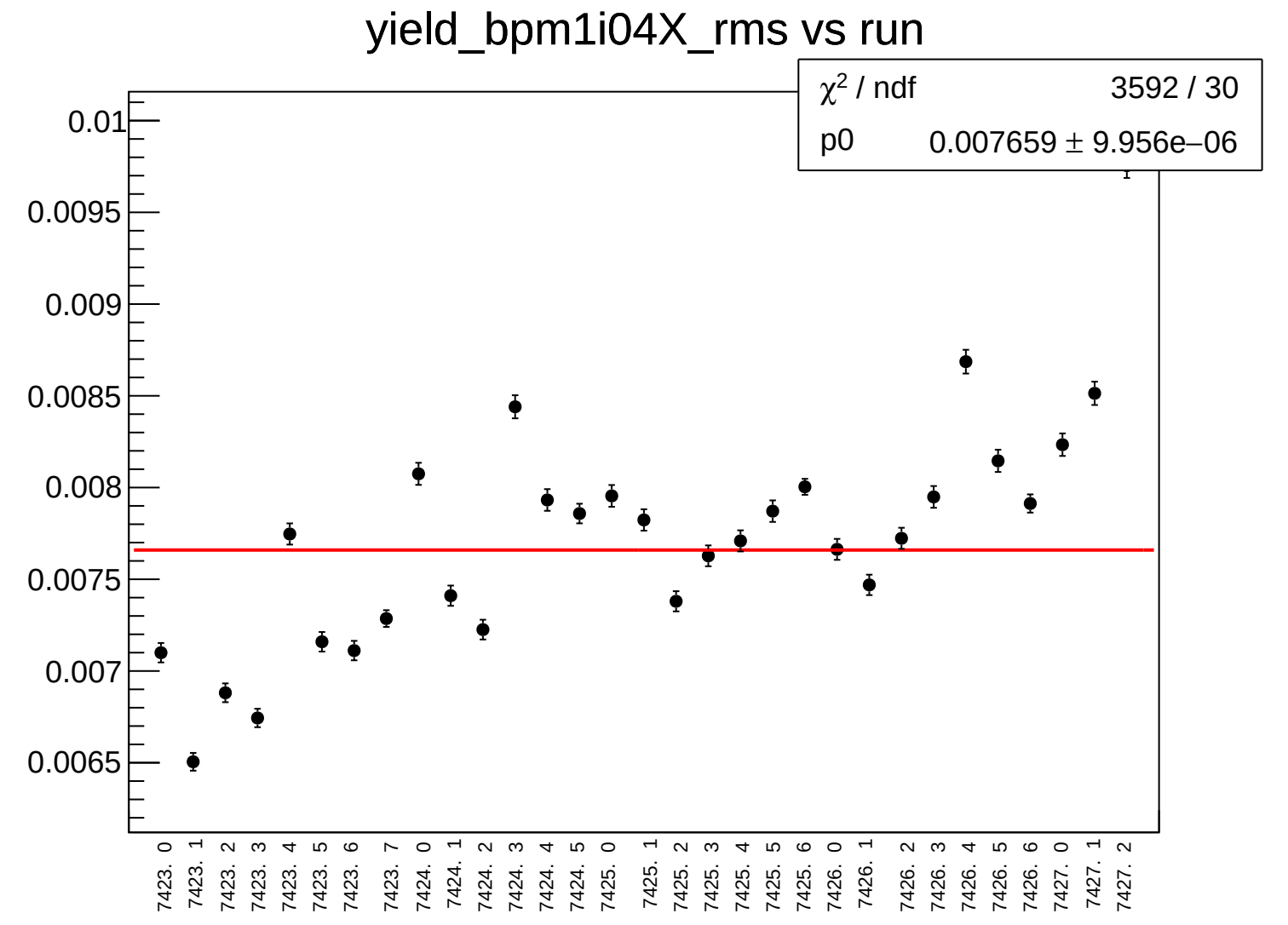

yield_bpm1i02Y_mean vs run
χ² / ndf 1.606e+06 / 30
p0 −1.676 ± 1.349e−05
−1.64
−1.65
−1.66
−1.67
−1.68
−1.69
−1.7
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 217.4
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

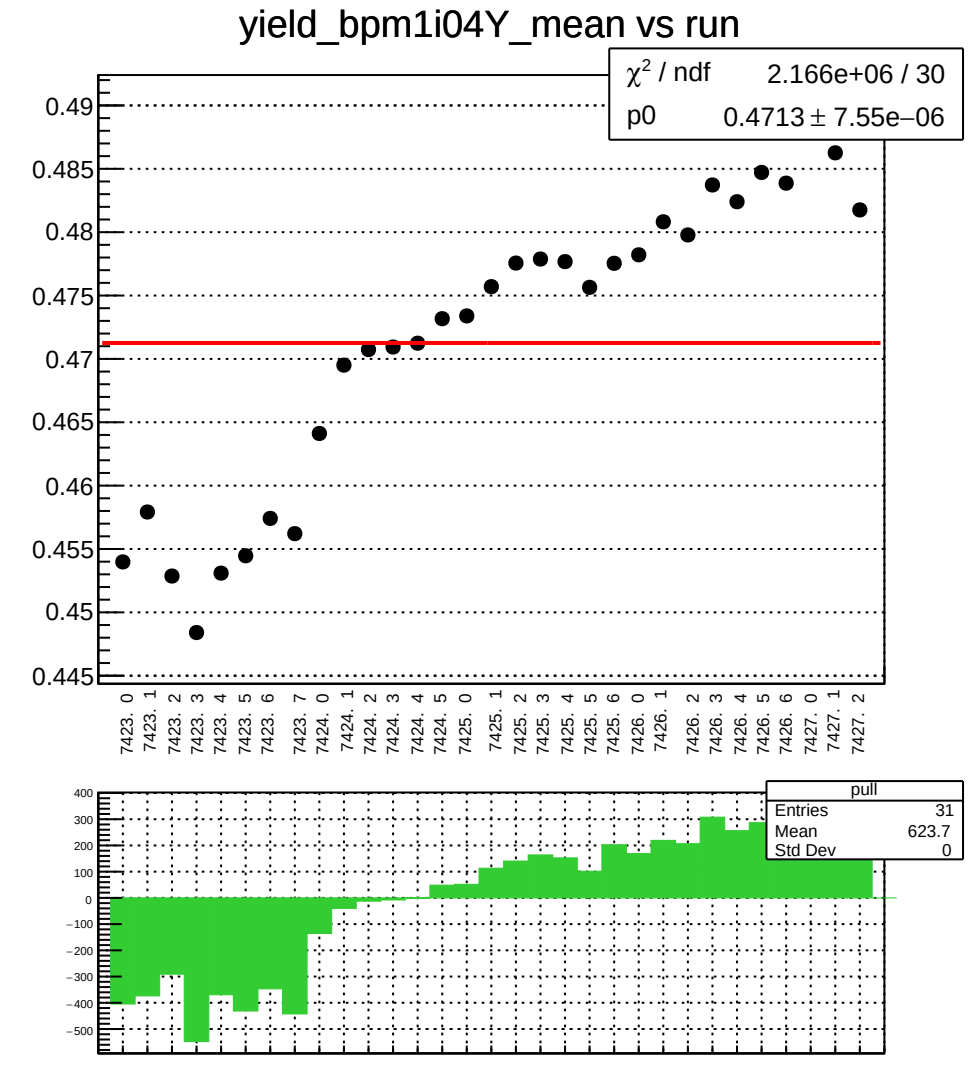

pull1D
Entries 31
Mean −0.9536
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

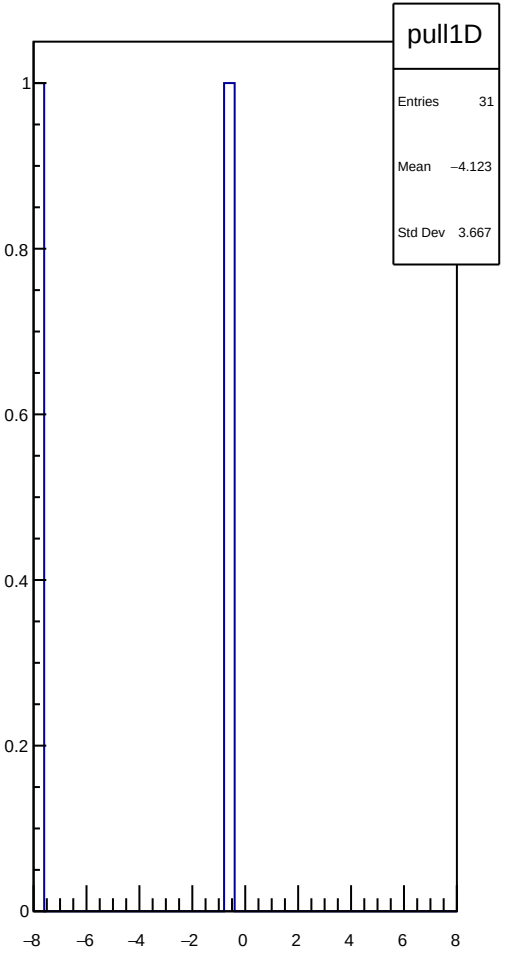

yield_bpm1i02Y_rms vs run
χ² / ndf 5231 / 30
p0 0.00733 ± 9.541e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

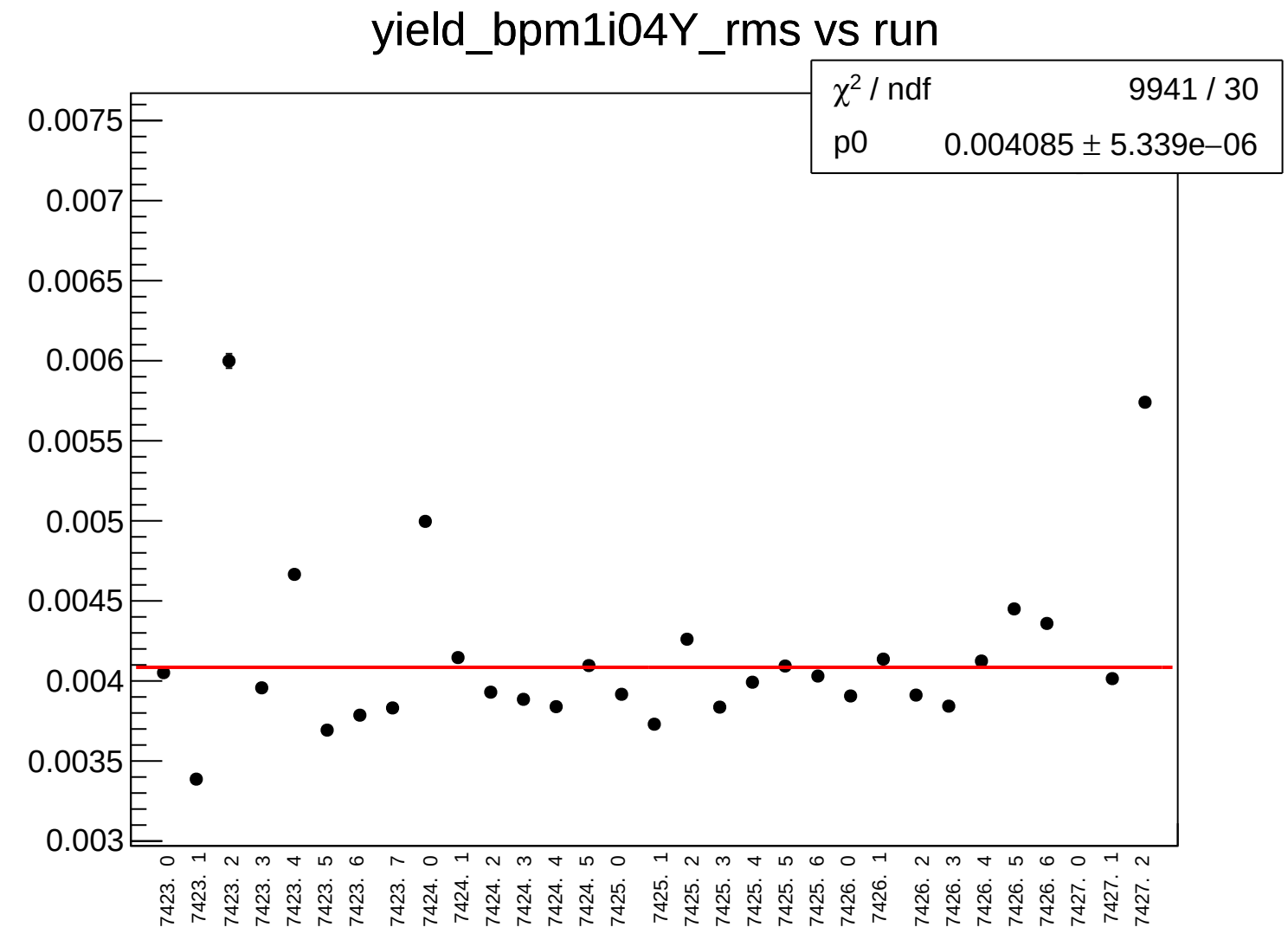

yield_bpm1i04X_mean vs run
χ² / ndf 8.681e+04 / 30
p0 1.14 ± 1.408e−05
1.146
1.144
1.142
1.14
1.138
1.136
1.134
1.132
1.13
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 639.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

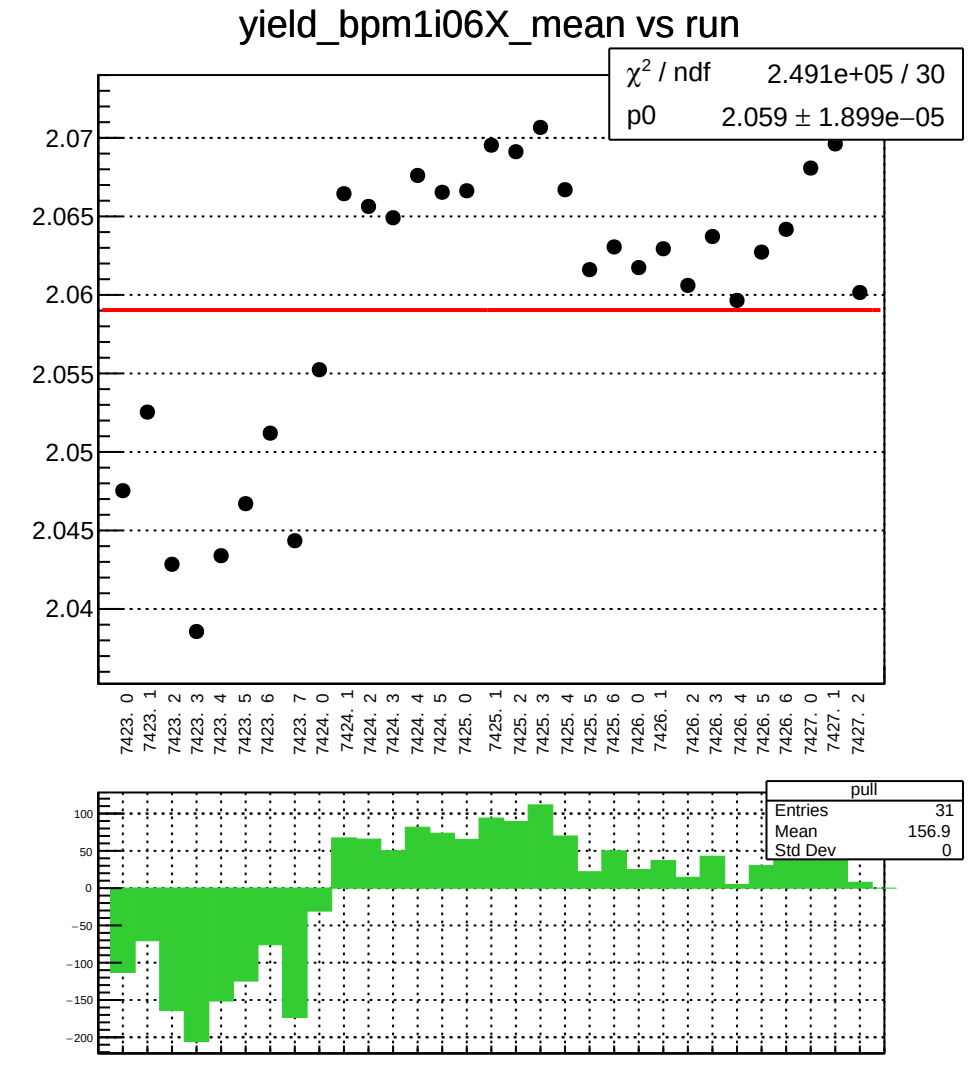

pull1D
Entries 31
Mean 5.572
Std Dev 1.169
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

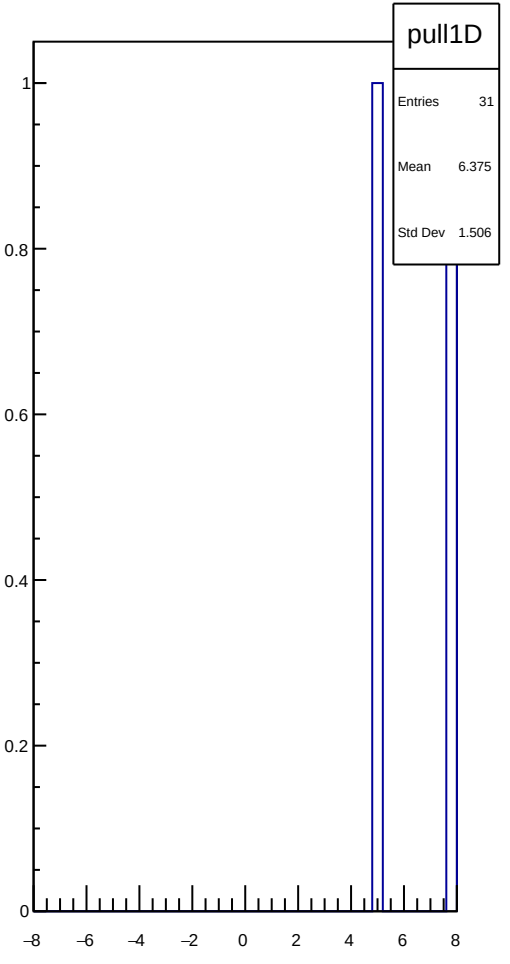

yield_bpm1i04X_rms vs run
χ^2 / ndf 3592 / 30
p0 0.007659 ± 9.956e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

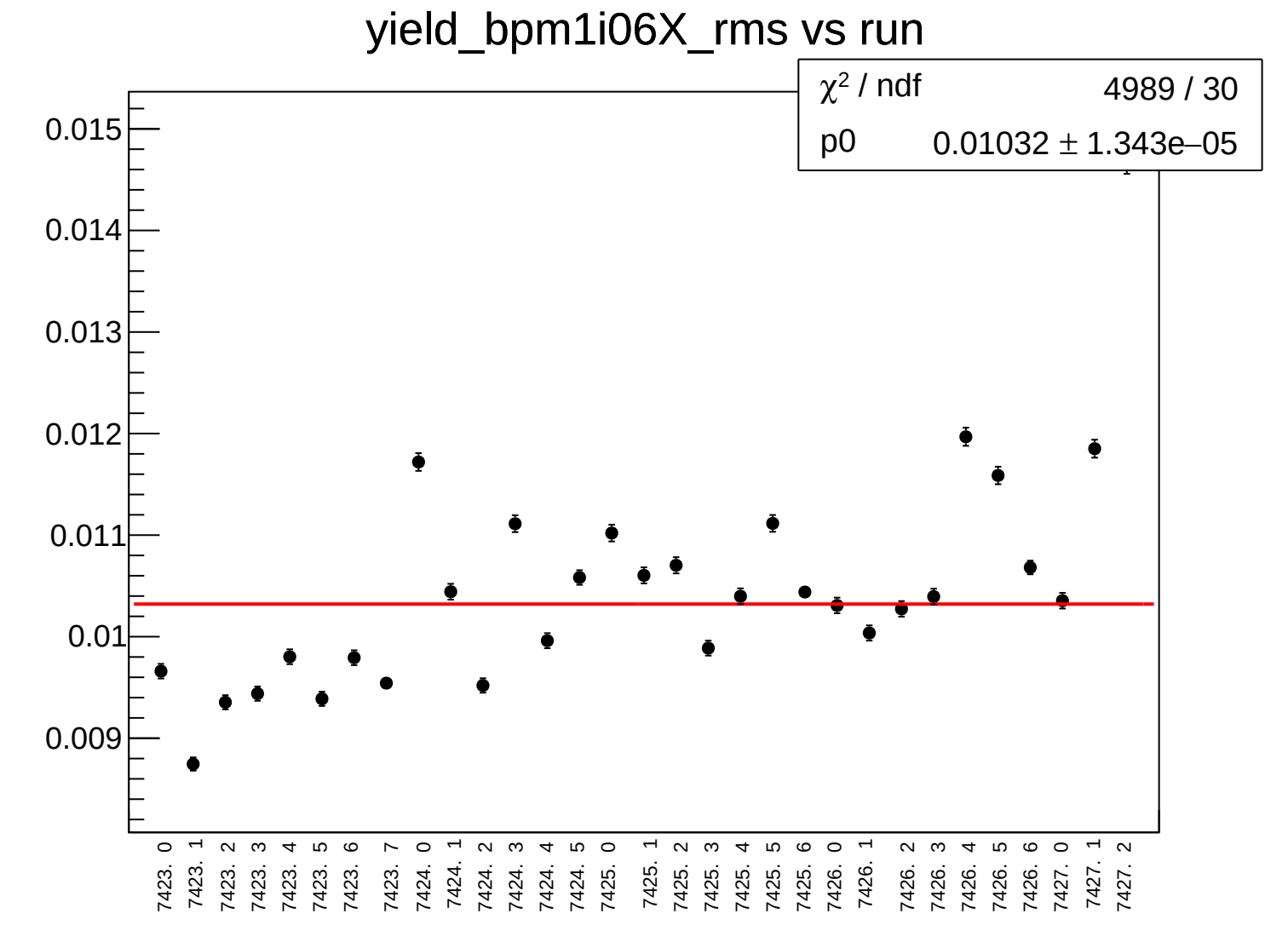

yield_bpm1i04Y_mean vs run
χ² / ndf 2.166e+06 / 30
p0 0.4713 ± 7.55e−06
0.49
0.485
0.48
0.475
0.47
0.465
0.46
0.455
0.45
0.445
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 623.7
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

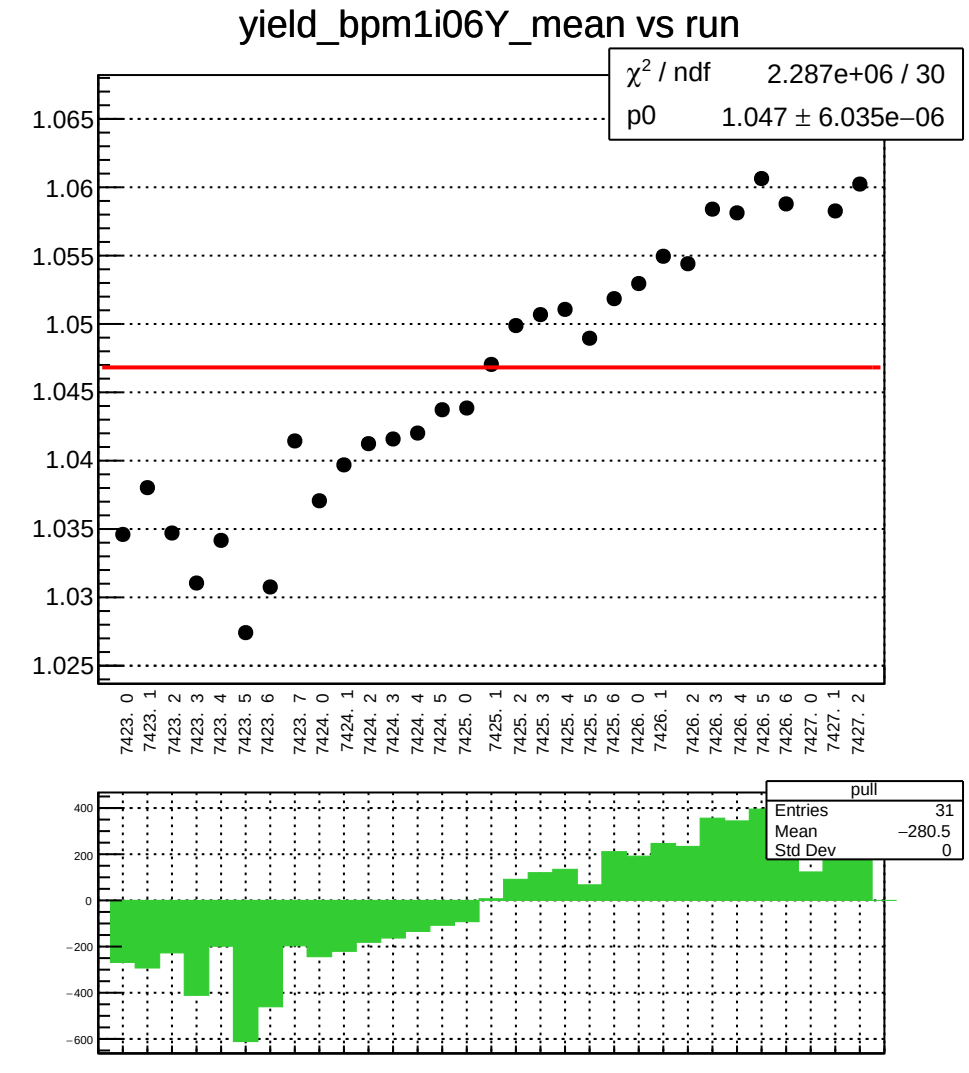

pull1D
Entries 31
Mean −4.123
Std Dev 3.667
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

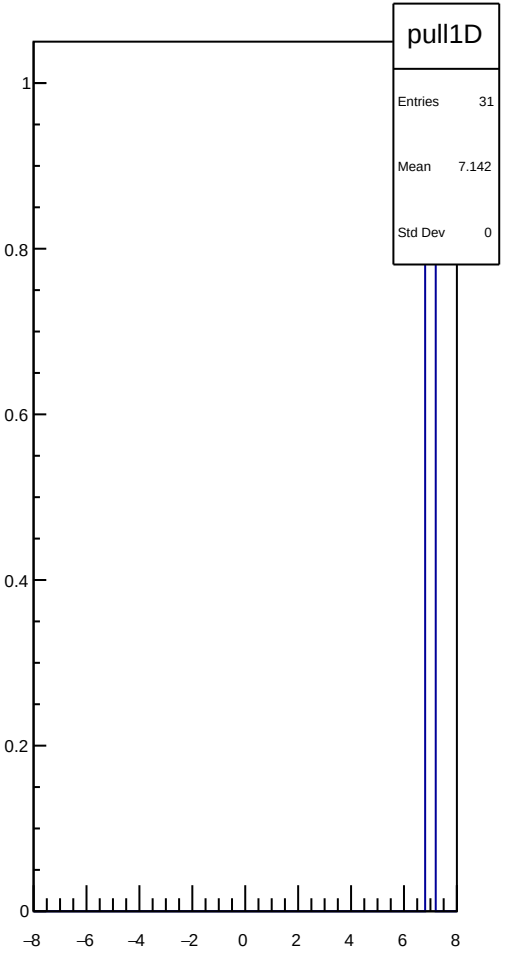

yield_bpm1i04Y_rms vs run
χ² / ndf 9941 / 30
p0 0.004085 ± 5.339e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

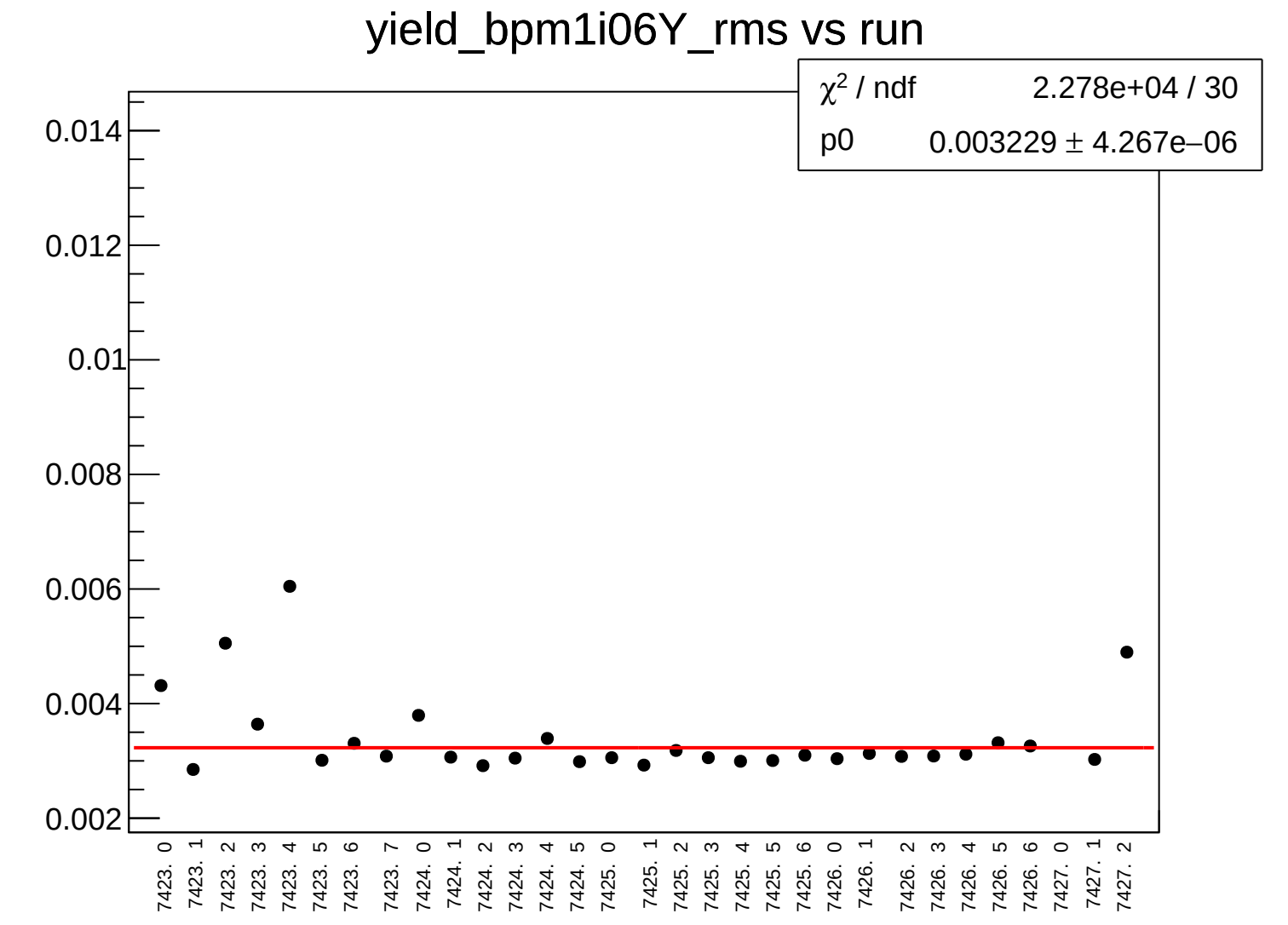

yield_bpm1i06X_mean vs run
χ² / ndf 2.491e+05 / 30
p0 2.059 ± 1.899e−05
2.07
2.065
2.06
2.055
2.05
2.045
2.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 156.9
Std Dev 0
100
50
0
−50
−100
−150
−200

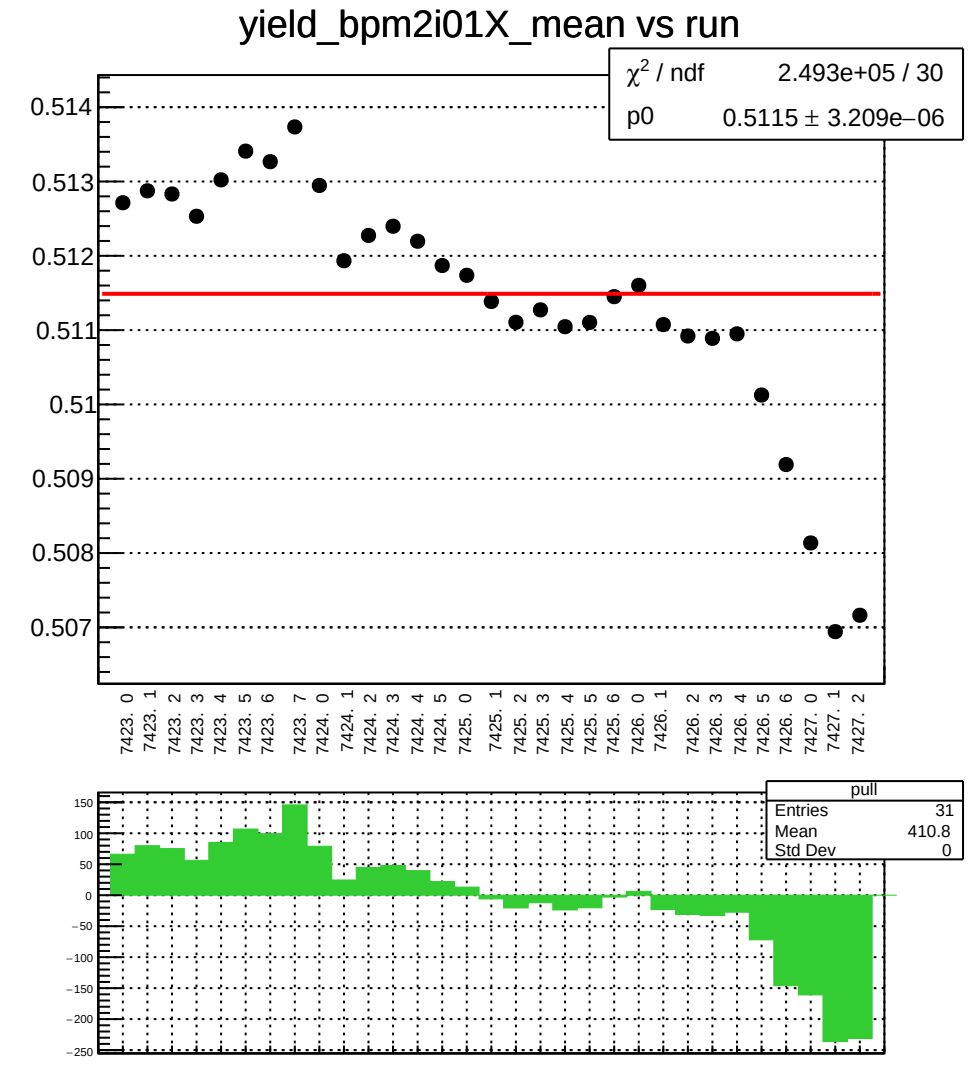

pull1D
Entries 31
Mean 6.375
Std Dev 1.506
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

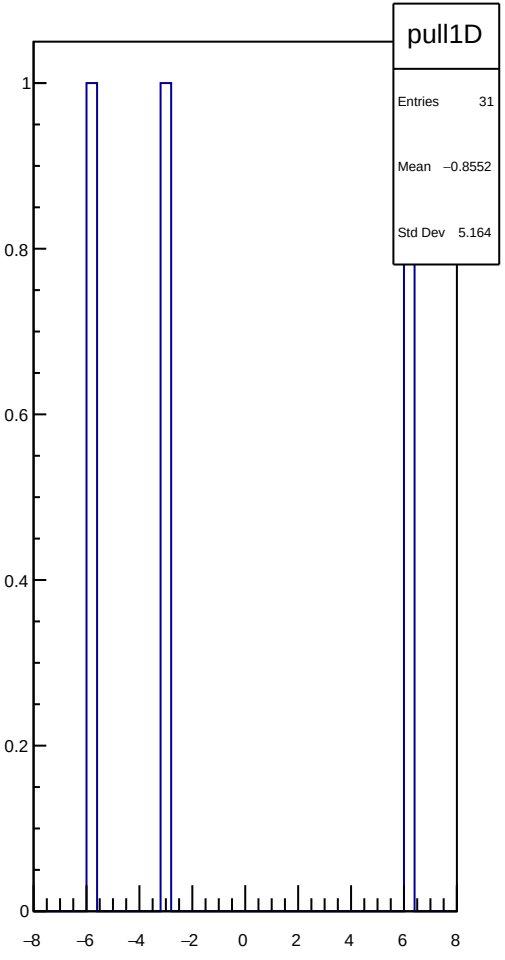

yield_bpm1i06X_rms vs run
χ² / ndf 4989 / 30
p0 0.01032 ± 1.343e−05
0.015
0.014
0.013
0.012
0.011
0.01
0.009
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

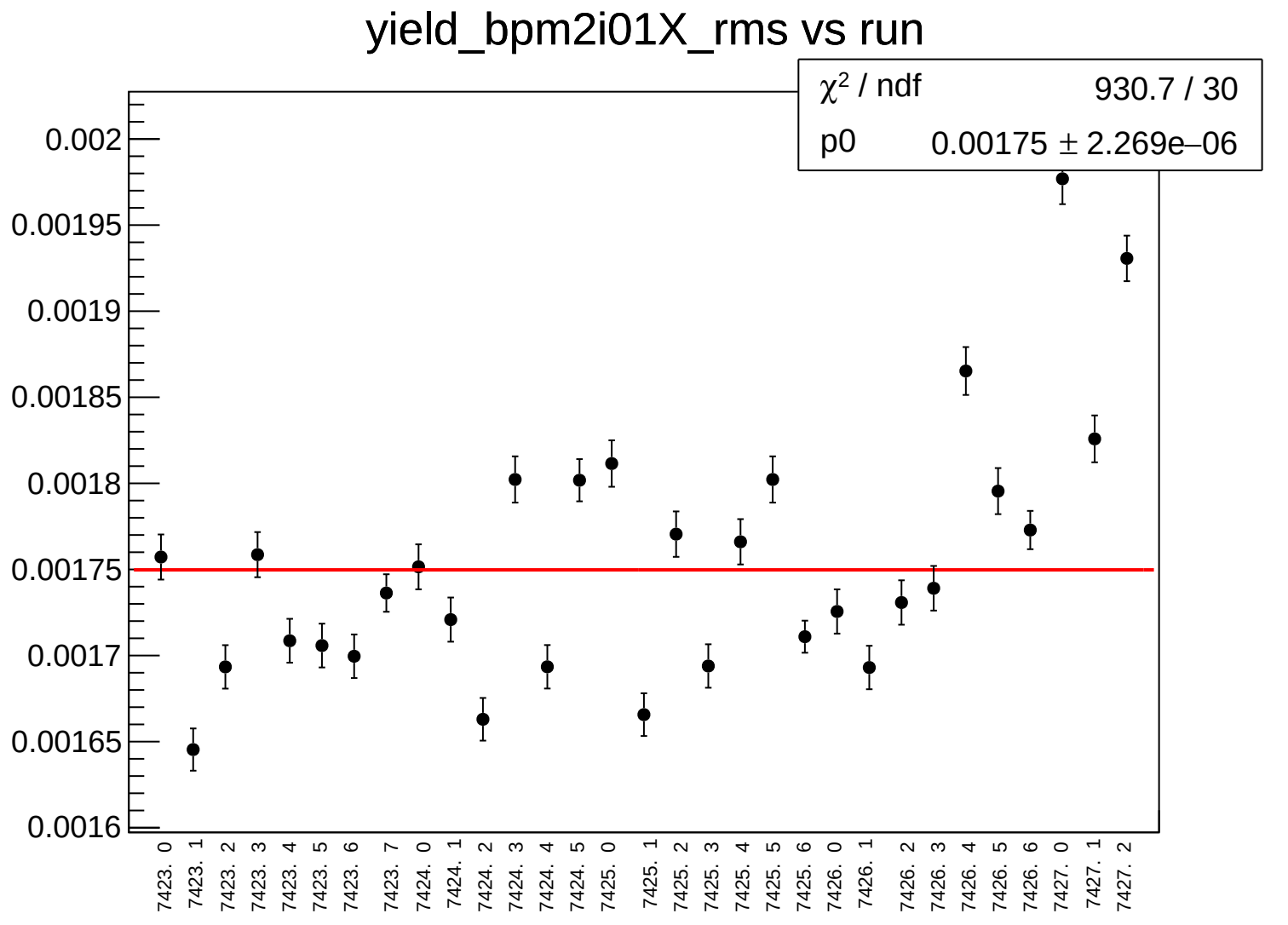

yield_bpm1i06Y_mean vs run
χ² / ndf 2.287e+06 / 30
p0 1.047 ± 6.035e−06
1.065
1.06
1.055
1.05
1.045
1.04
1.035
1.03
1.025
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −280.5
Std Dev 0
400
200
0
−200
−400
−600

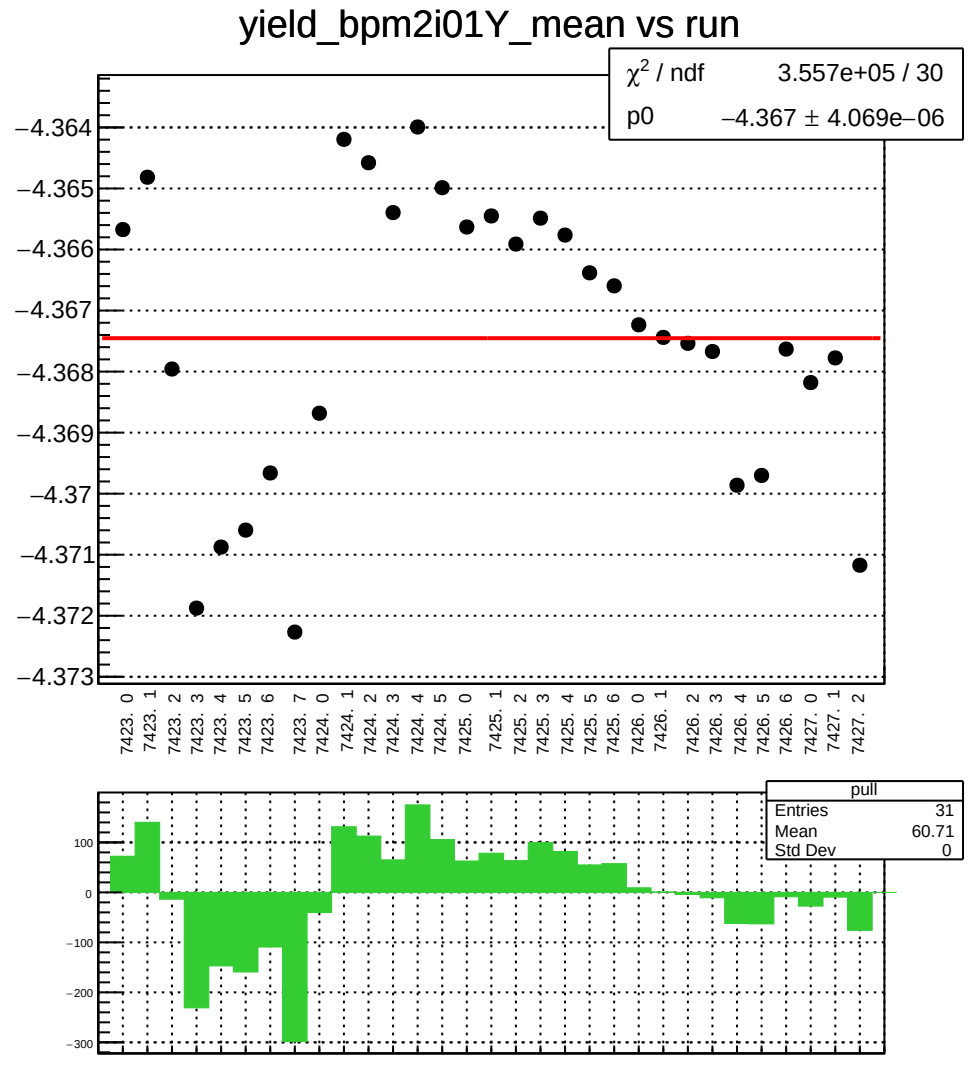

pull1D
Entries 31
Mean 7.142
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

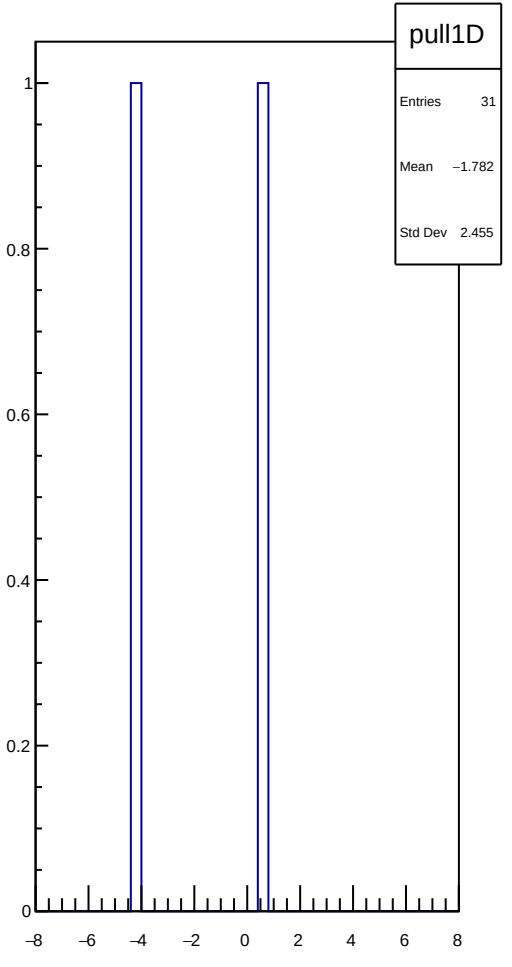

yield_bpm1i06Y_rms vs run
χ² / ndf 2.278e+04 / 30
p0 0.003229 ± 4.267e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

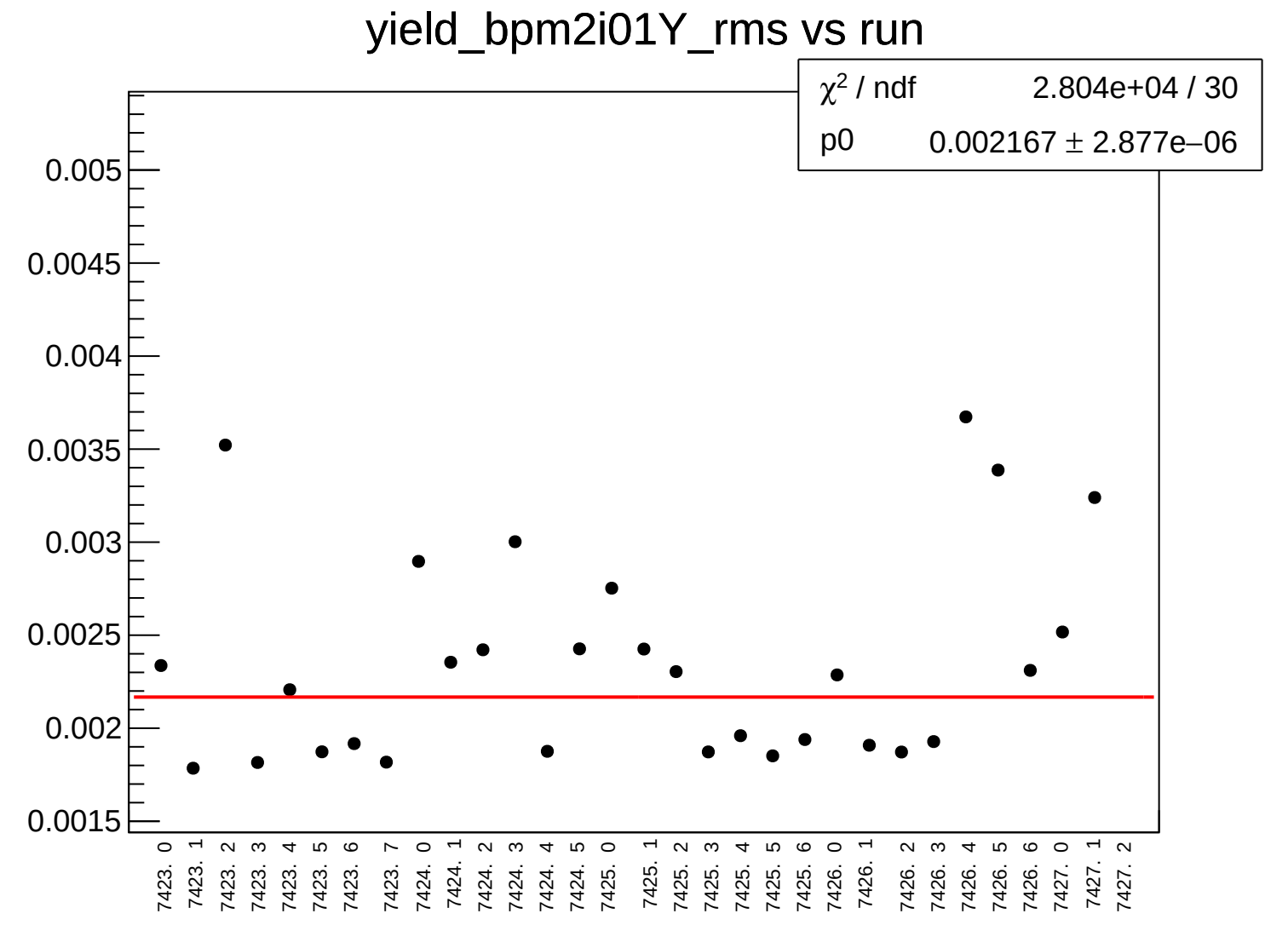

yield_bpm2i01X_mean vs run
χ² / ndf 2.493e+05 / 30
p0 0.5115 ± 3.209e−06
0.514
0.513
0.512
0.511
0.51
0.509
0.508
0.507
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 410.8
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

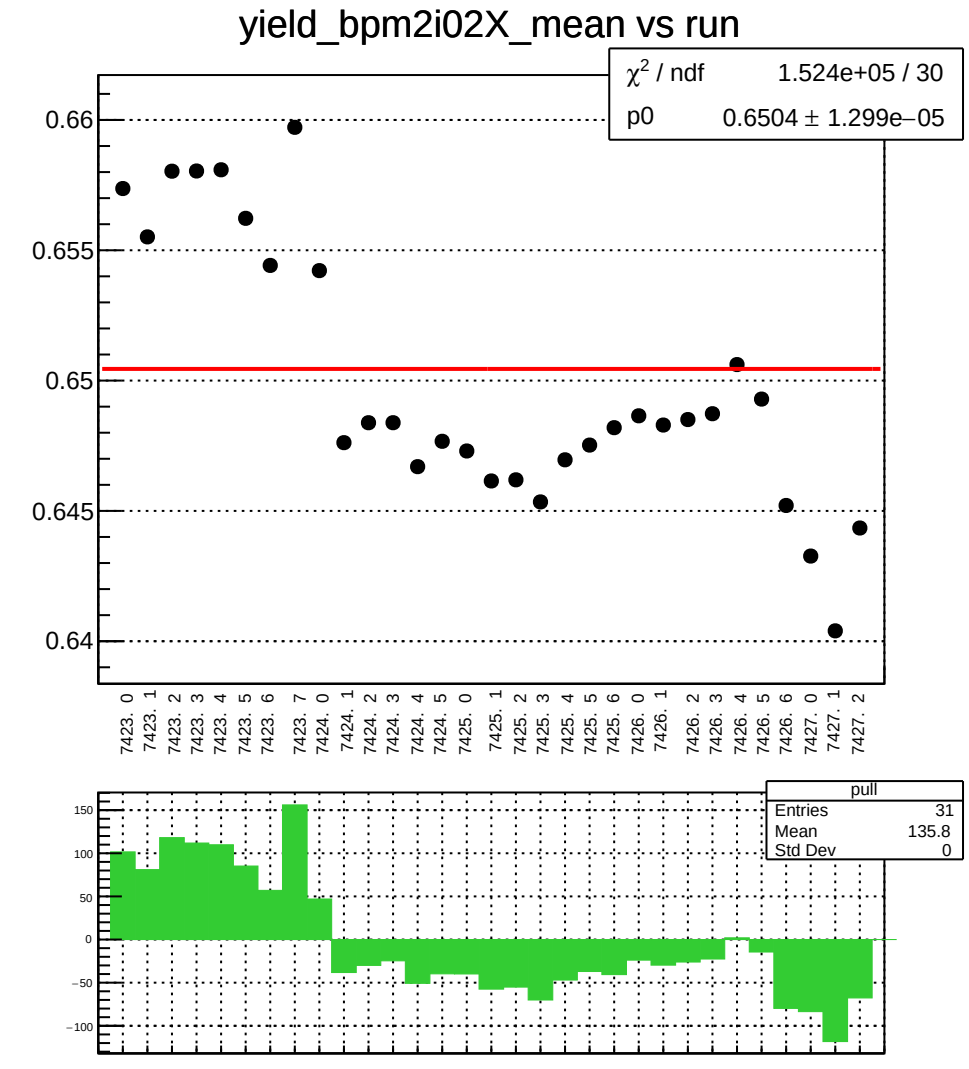

pull1D
Entries 31
Mean −0.8552
Std Dev 5.164
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

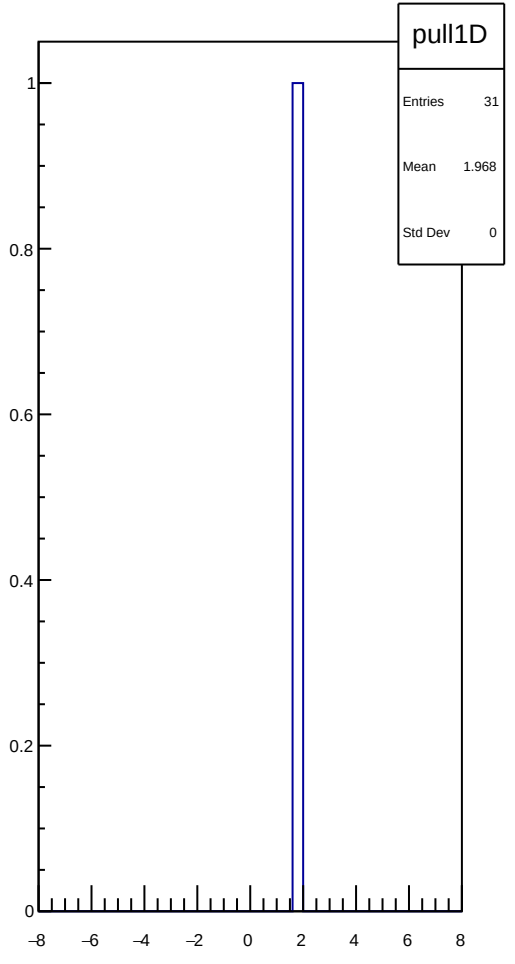

yield_bpm2i01X_rms vs run
χ² / ndf 930.7 / 30
p0 0.00175 ± 2.269e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

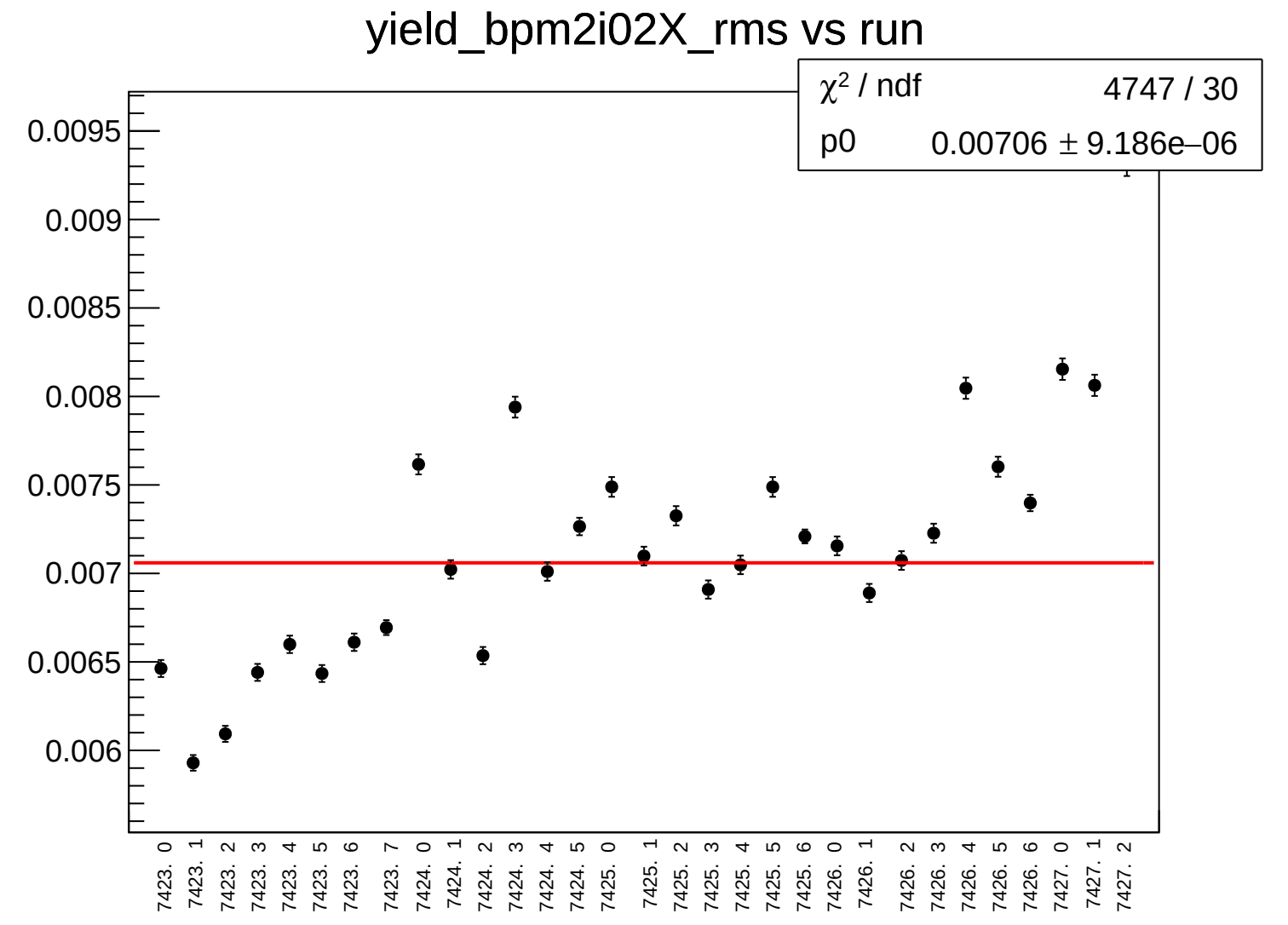

yield_bpm2i01Y_mean vs run
χ² / ndf 3.557e+05 / 30
p0 −4.367 ± 4.069e−06
−4.364
−4.365
−4.366
−4.367
−4.368
−4.369
−4.37
−4.371
−4.372
−4.373
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 60.71
Std Dev 0
100
0
−100
−200
−300

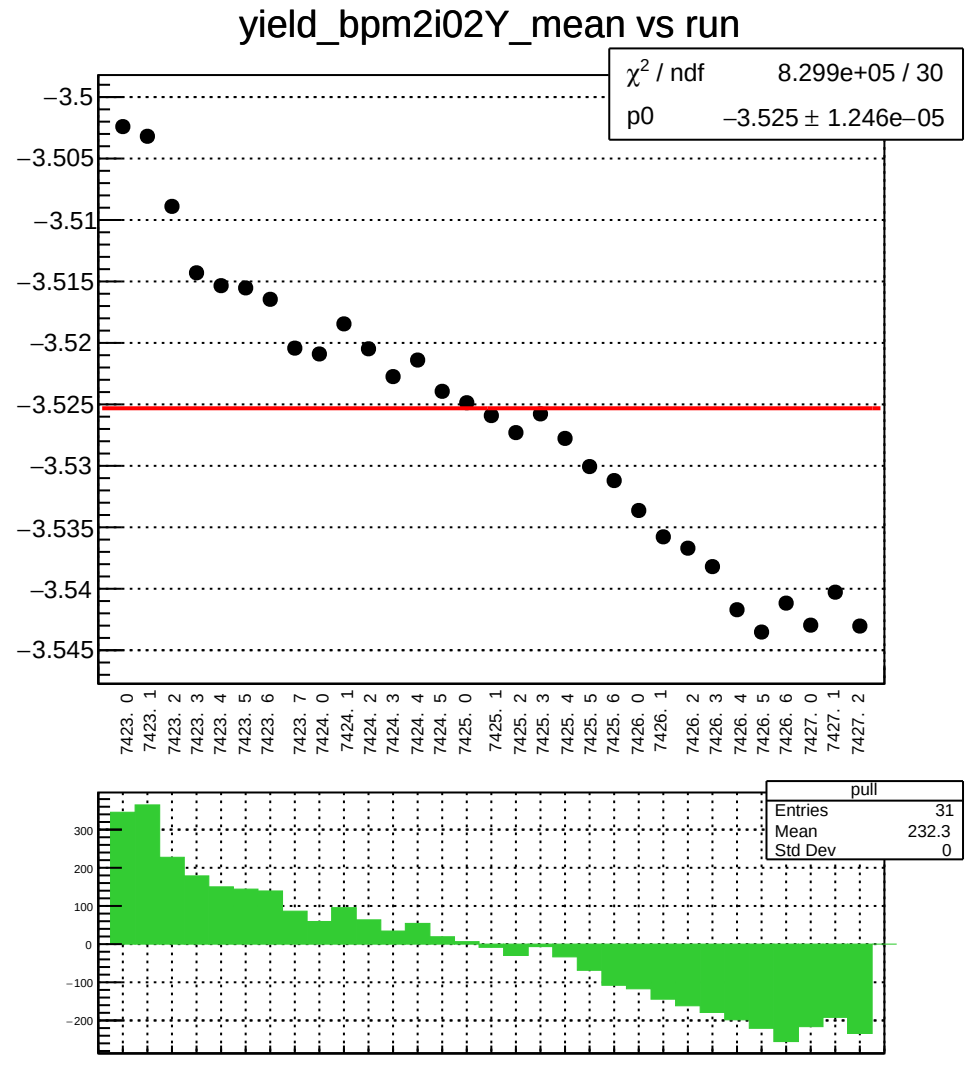

pull1D
Entries 31
Mean −1.782
Std Dev 2.455
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

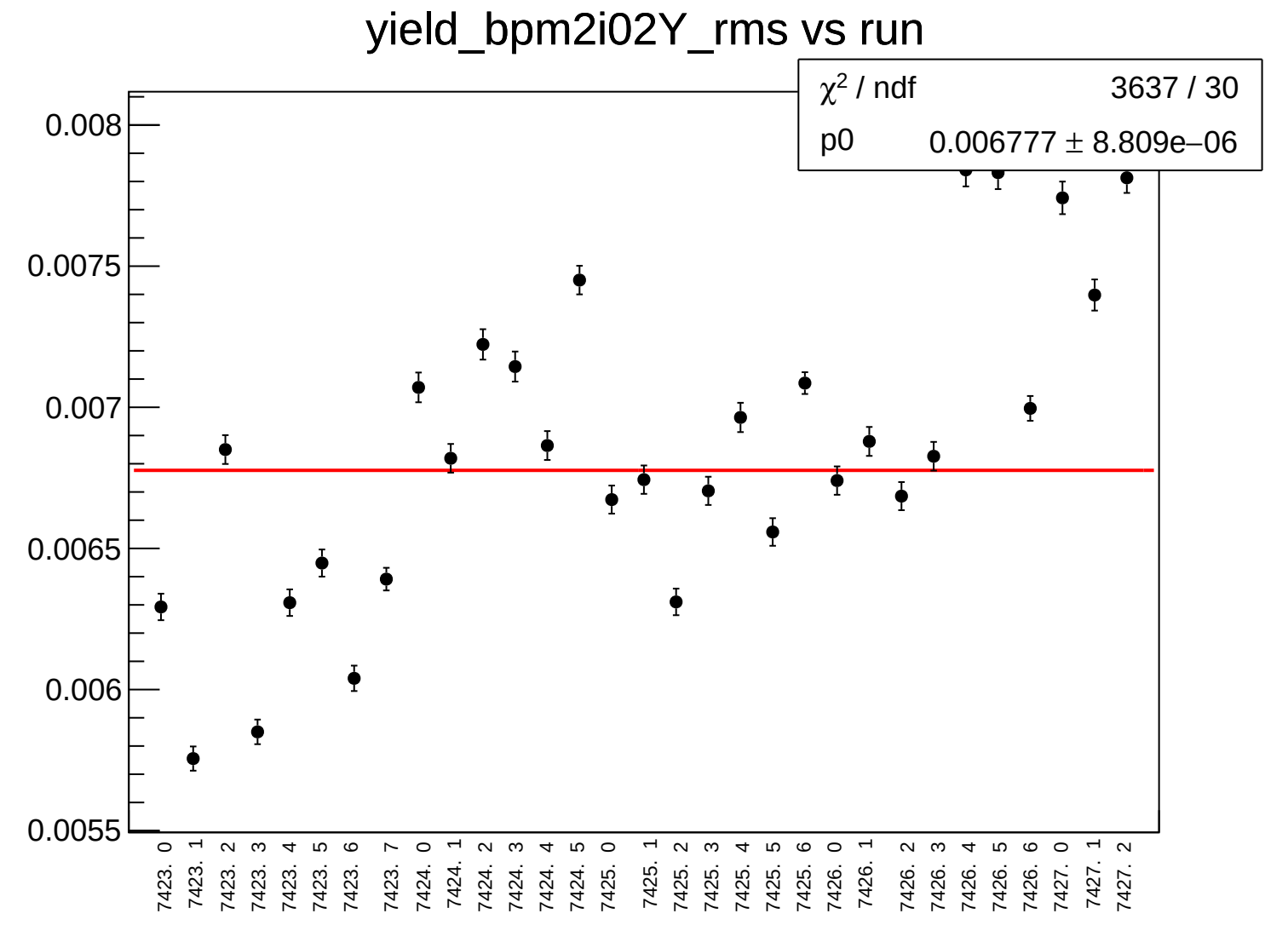

yield_bpm2i01Y_rms vs run
χ² / ndf 2.804e+04 / 30
p0 0.002167 ± 2.877e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

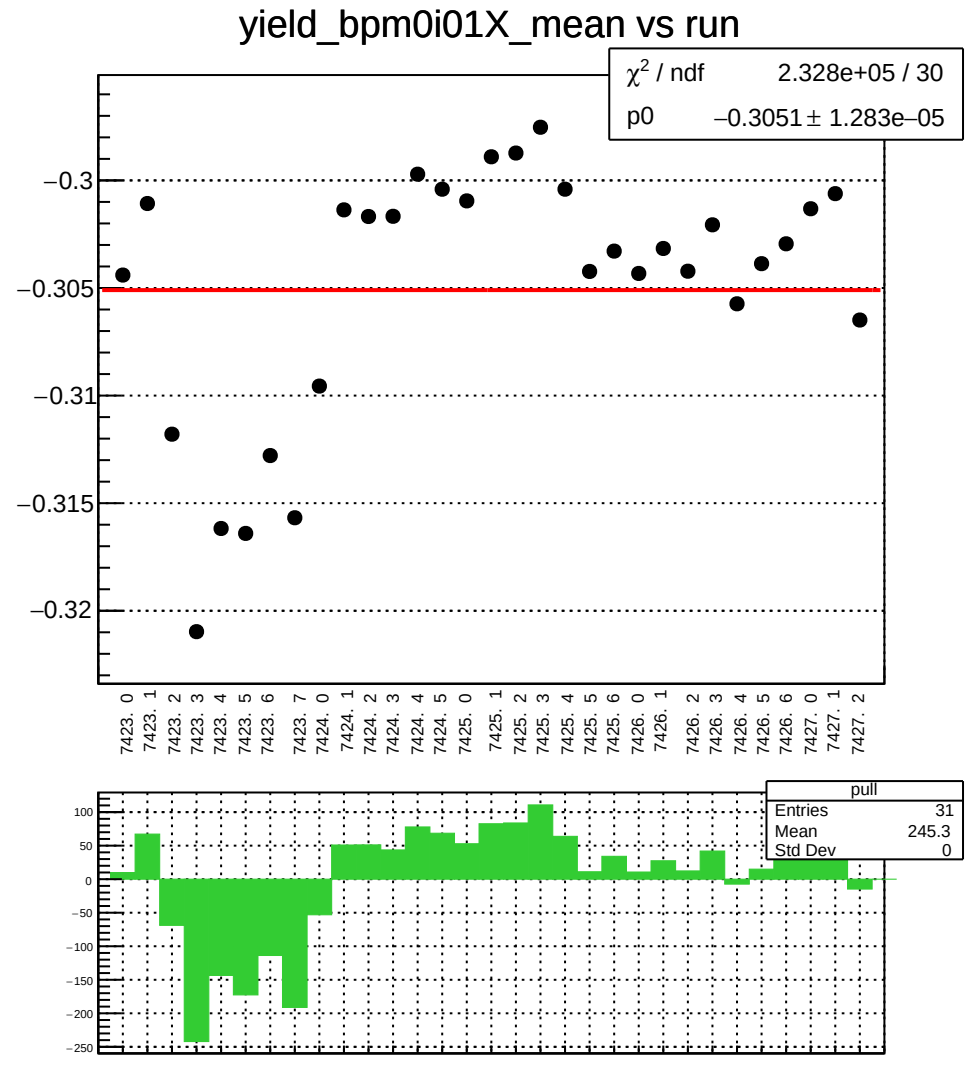

yield_bpm2i02X_mean vs run
χ² / ndf 1.524e+05 / 30
p0 0.6504 ± 1.299e−05
0.66
0.655
0.65
0.645
0.64
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 135.8
Std Dev 0
150
100
50
0
−50
−100

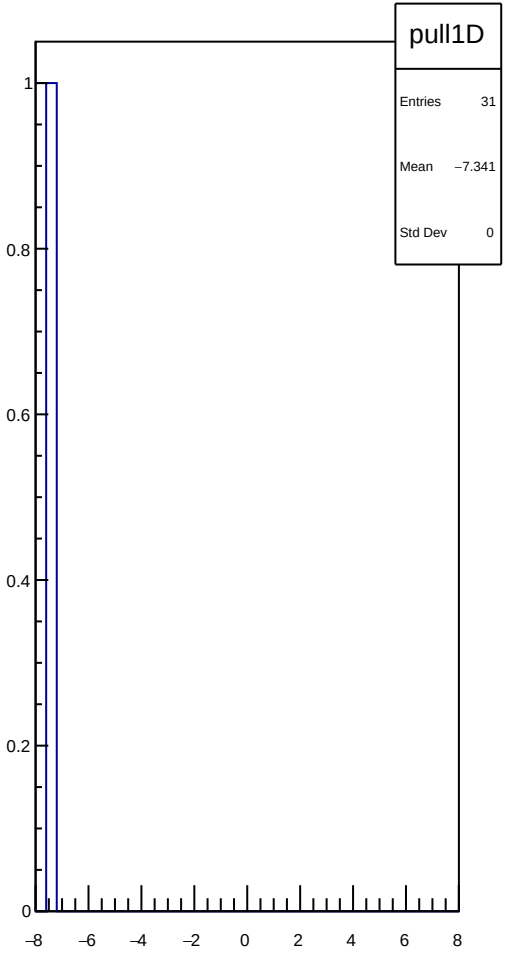

pull1D
Entries 31
Mean 1.968
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

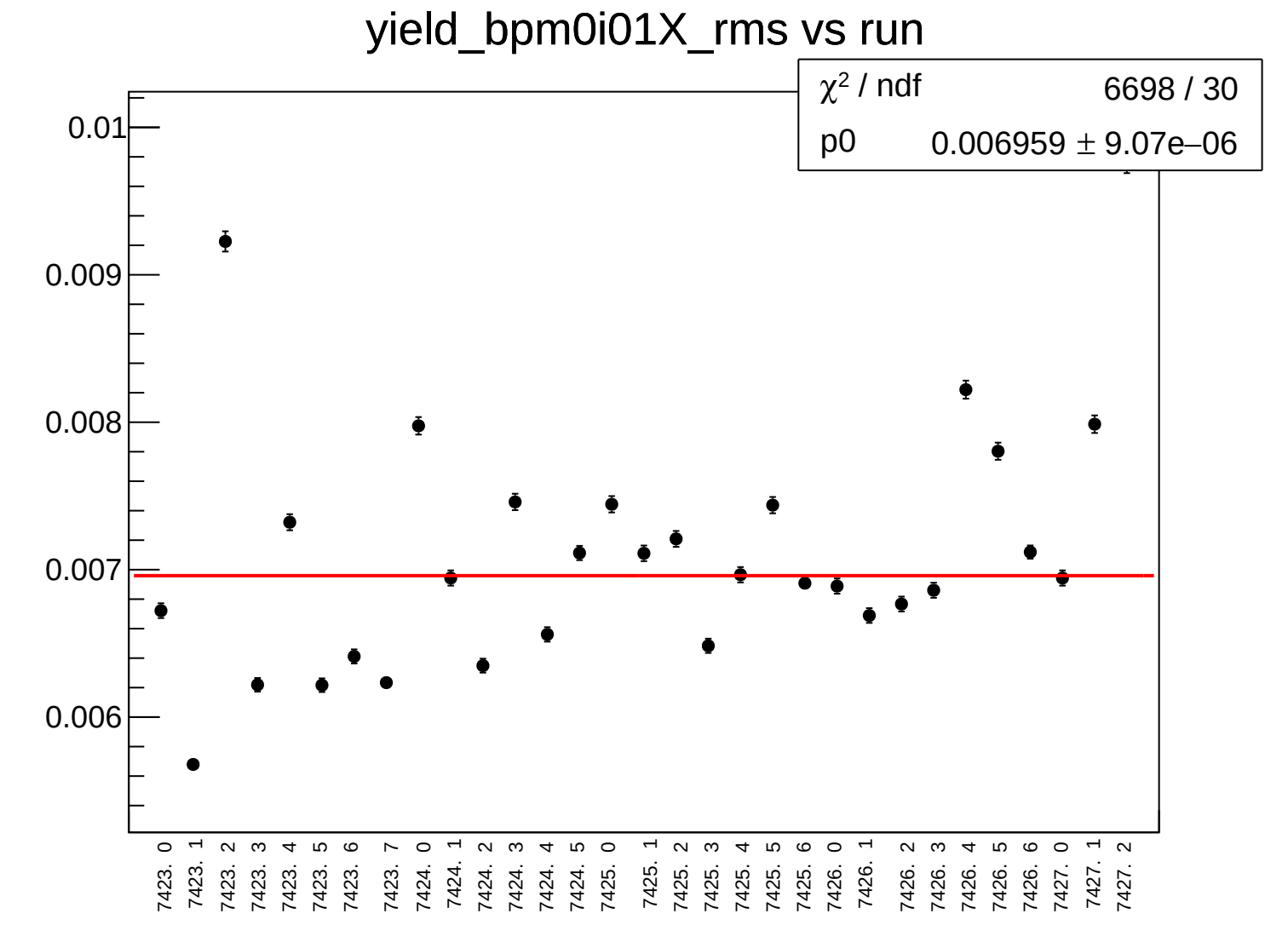

yield_bpm2i02X_rms vs run
χ² / ndf 4747 / 30
p0 0.00706 ± 9.186e–06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

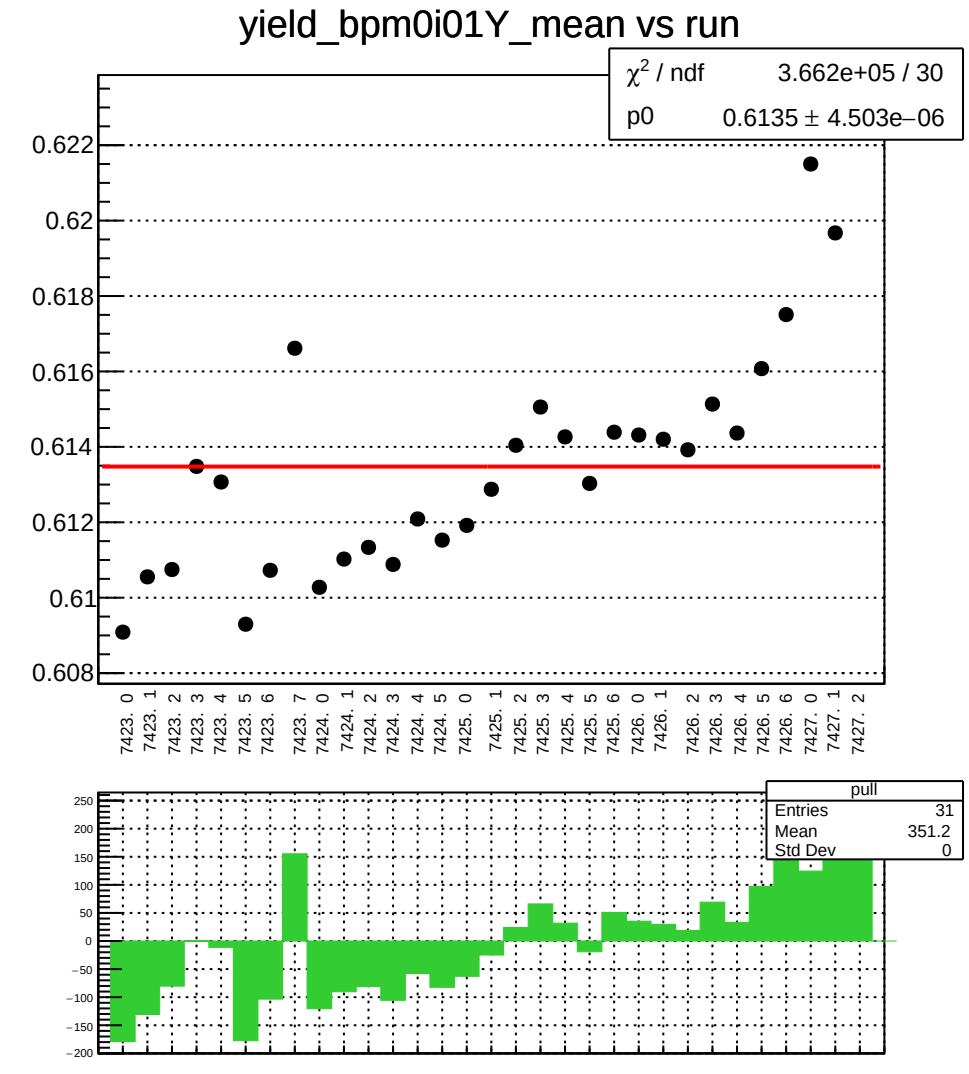

yield_bpm2i02Y_mean vs run
χ² / ndf 8.299e+05 / 30
p0 −3.525 ± 1.246e−05
−3.5
−3.505
−3.51
−3.515
−3.52
−3.525
−3.53
−3.535
−3.54
−3.545
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 232.3
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 31
Mean −0.01213
Std Dev 6.454
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

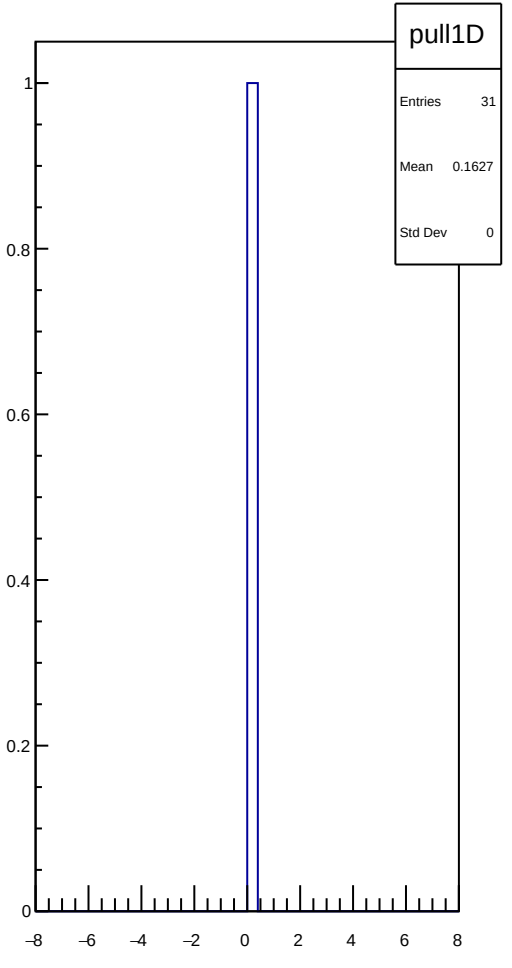

yield_bpm2i02Y_rms vs run
χ² / ndf 3637 / 30
p0 0.006777 ± 8.809e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

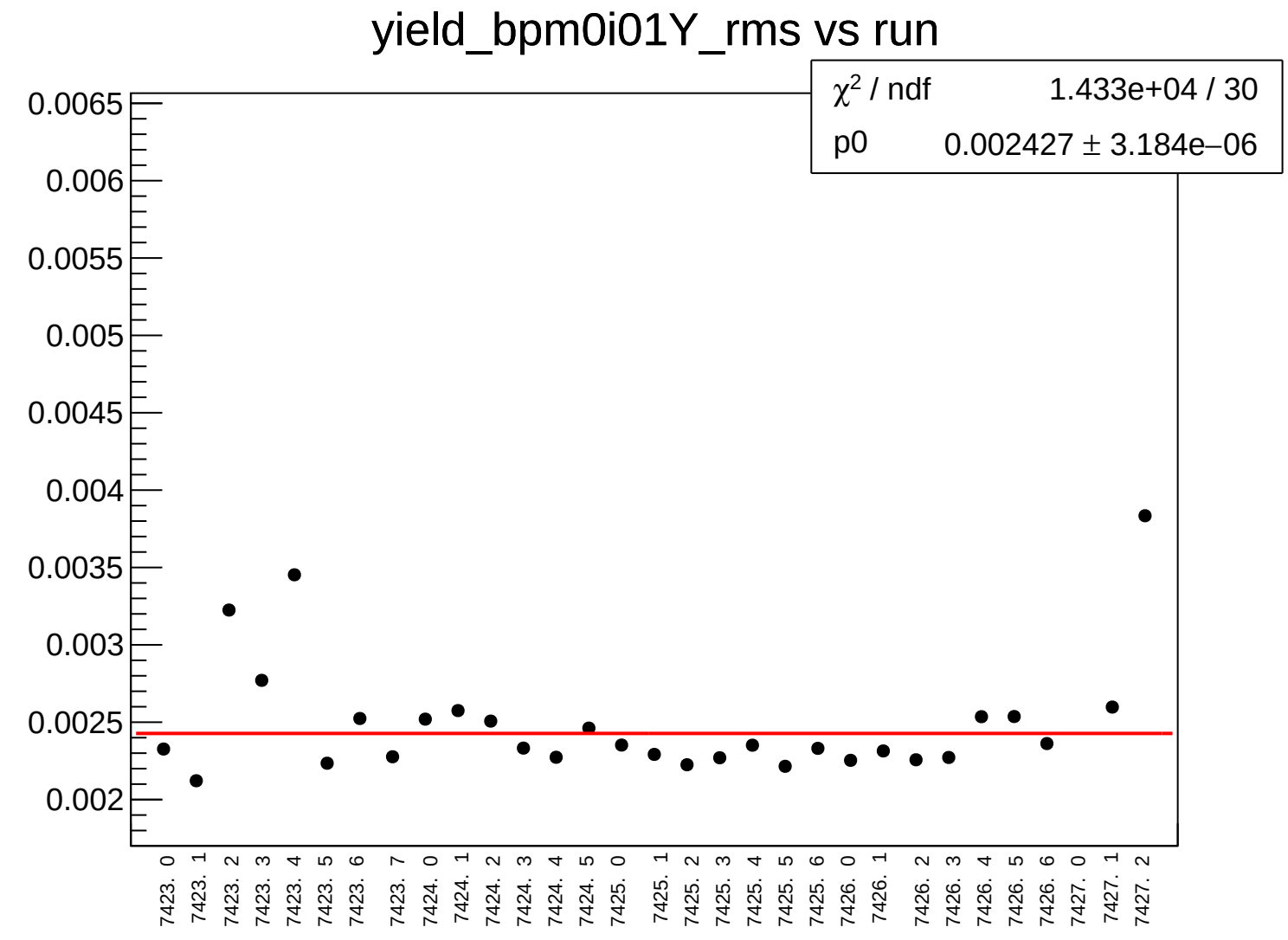

yield_bpm0i01X_mean vs run
χ² / ndf 2.328e+05 / 30
p0 −0.3051 ± 1.283e−05
−0.3
−0.305
−0.31
−0.315
−0.32
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 245.3
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

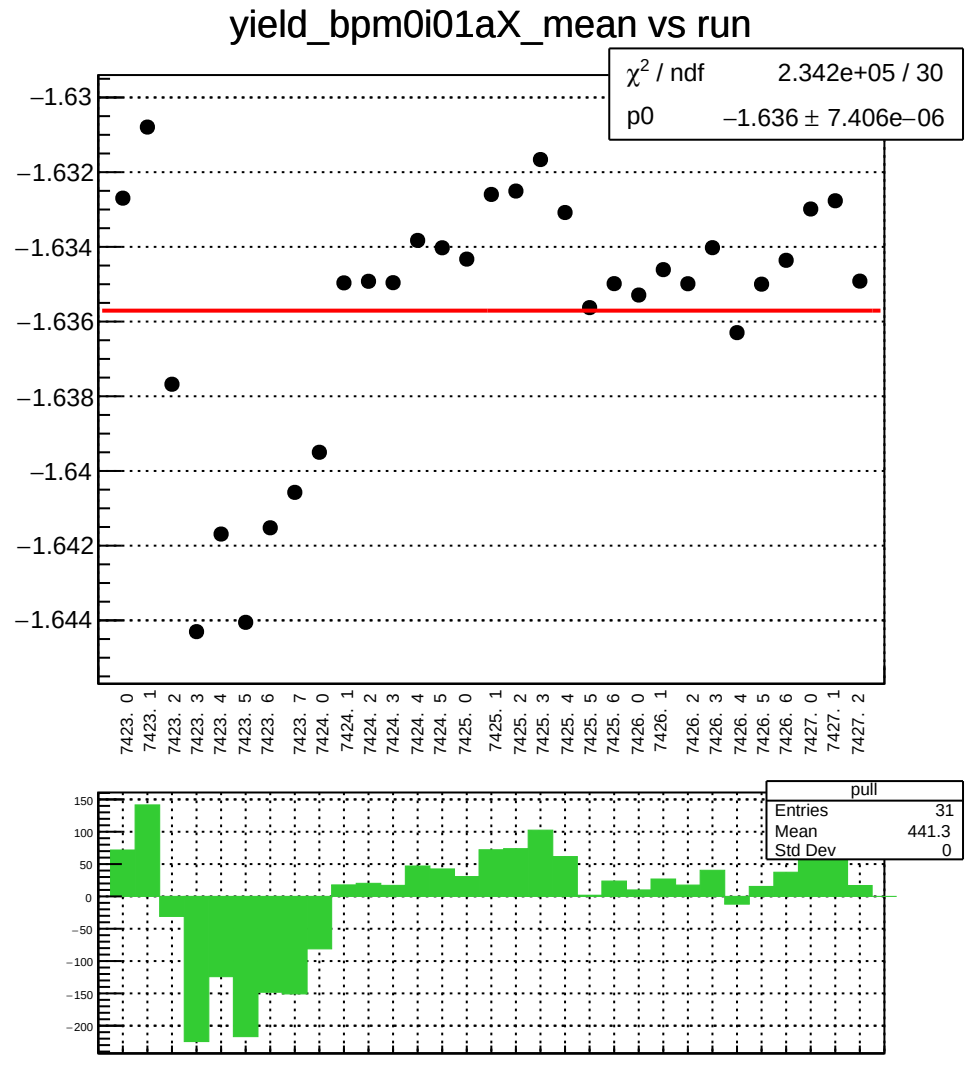

pull1D
Entries 31
Mean −7.341
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

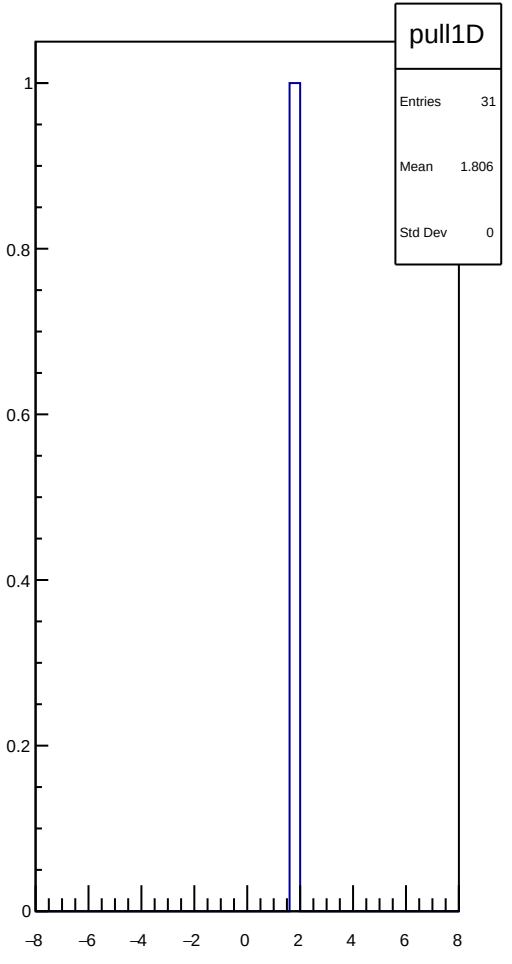

yield_bpm0i01X_rms vs run
χ² / ndf 6698 / 30
p0 0.006959 ± 9.07e–06
0.01
0.009
0.008
0.007
0.006
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

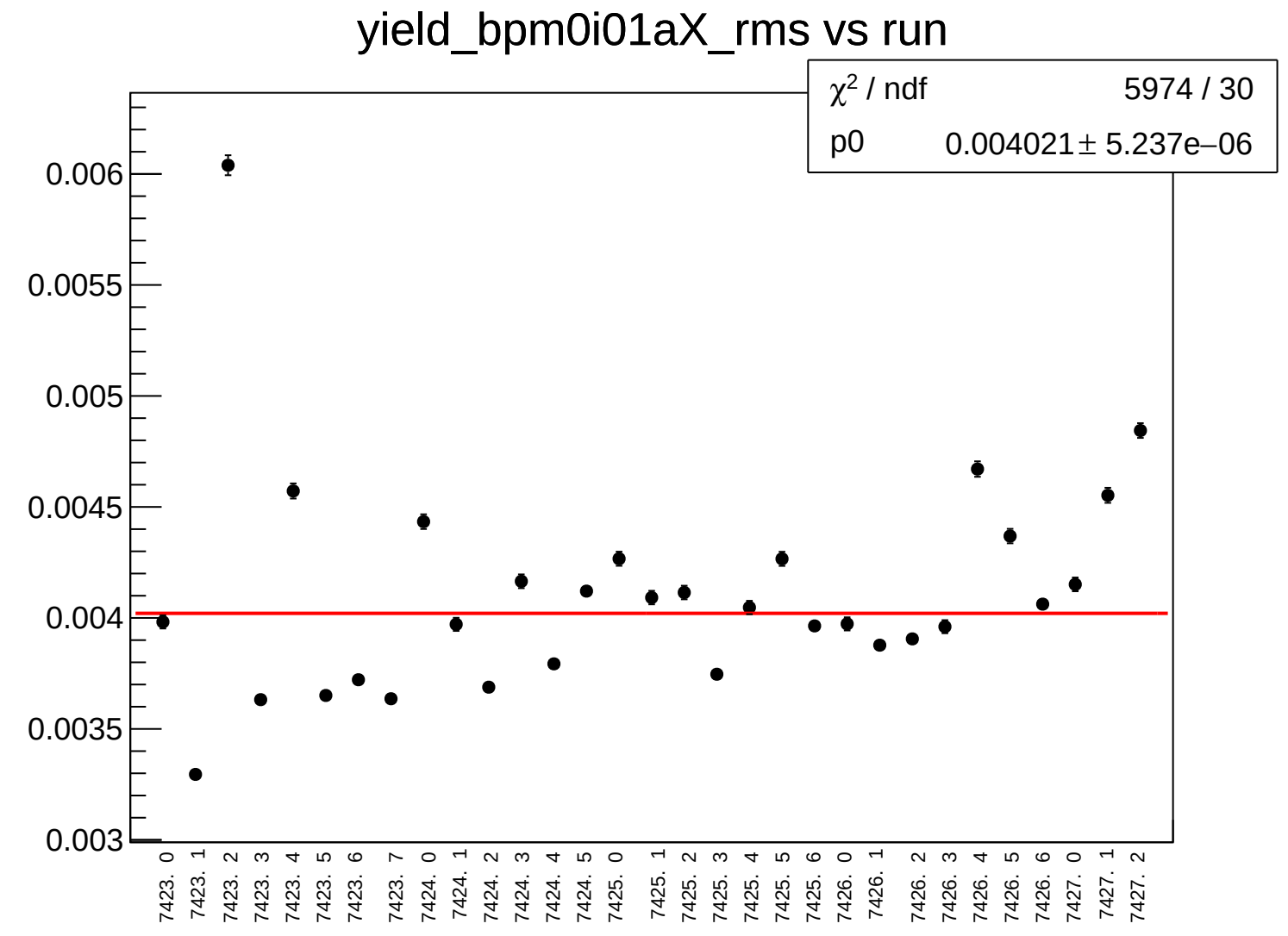

yield_bpm0i01Y_mean vs run
χ² / ndf 3.662e+05 / 30
p0 0.6135 ± 4.503e−06
0.622
0.62
0.618
0.616
0.614
0.612
0.61
0.608
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 351.2
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

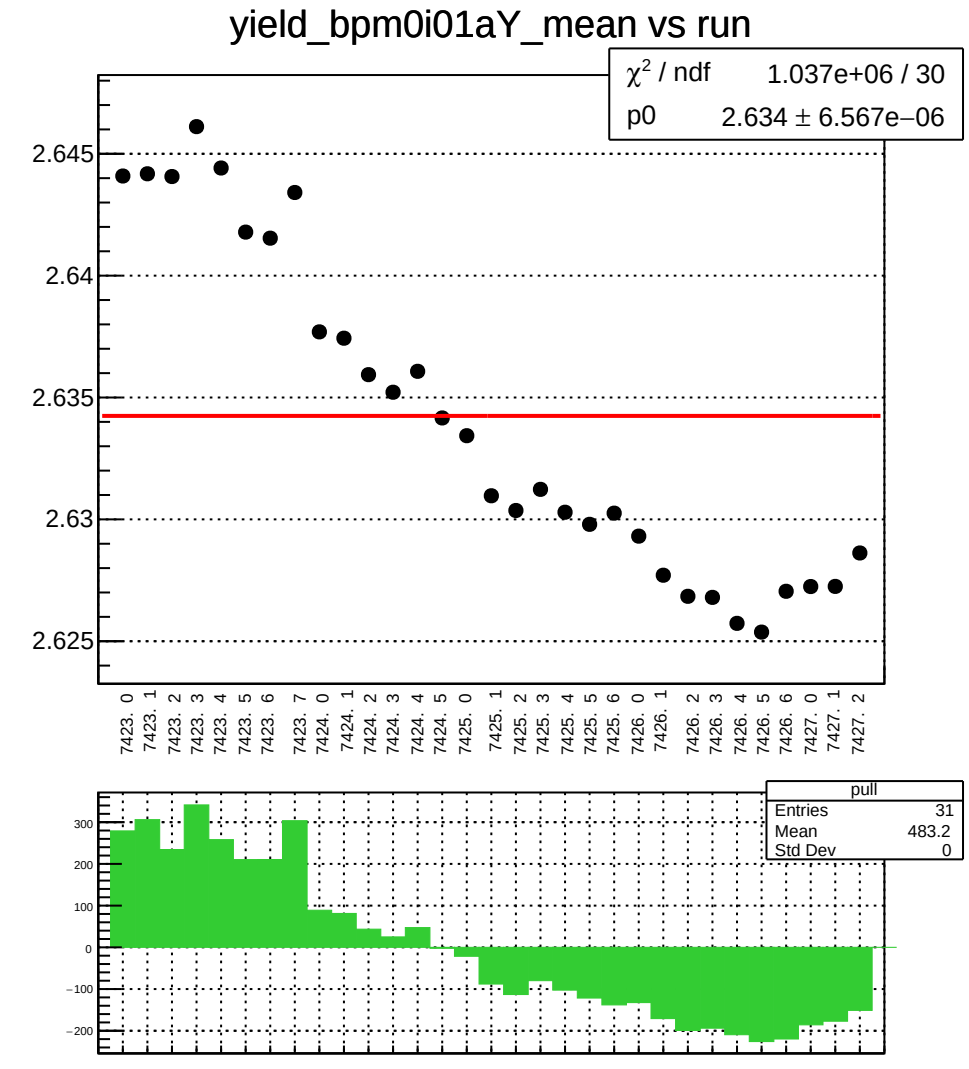

pull1D
Entries 31
Mean 0.1627
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

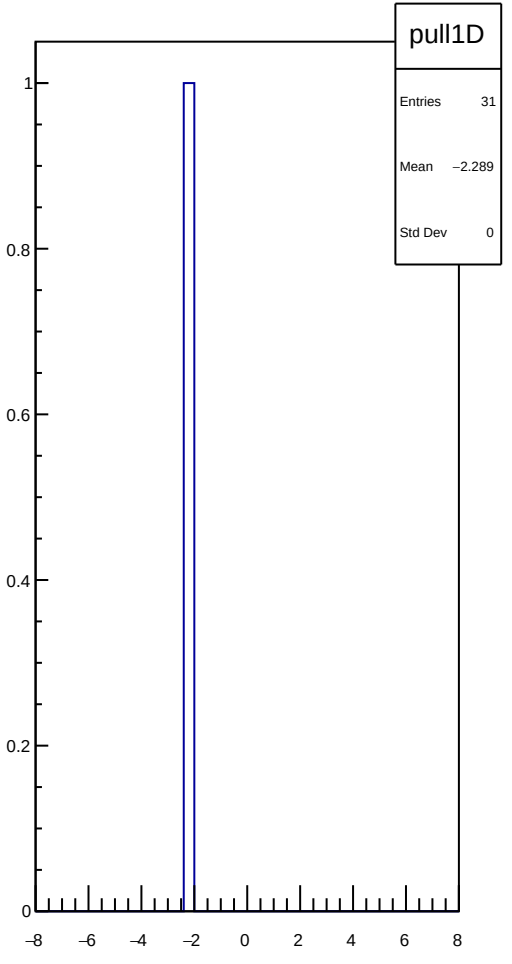

yield_bpm0i01Y_rms vs run
χ² / ndf 1.433e+04 / 30
p0 0.002427 ± 3.184e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

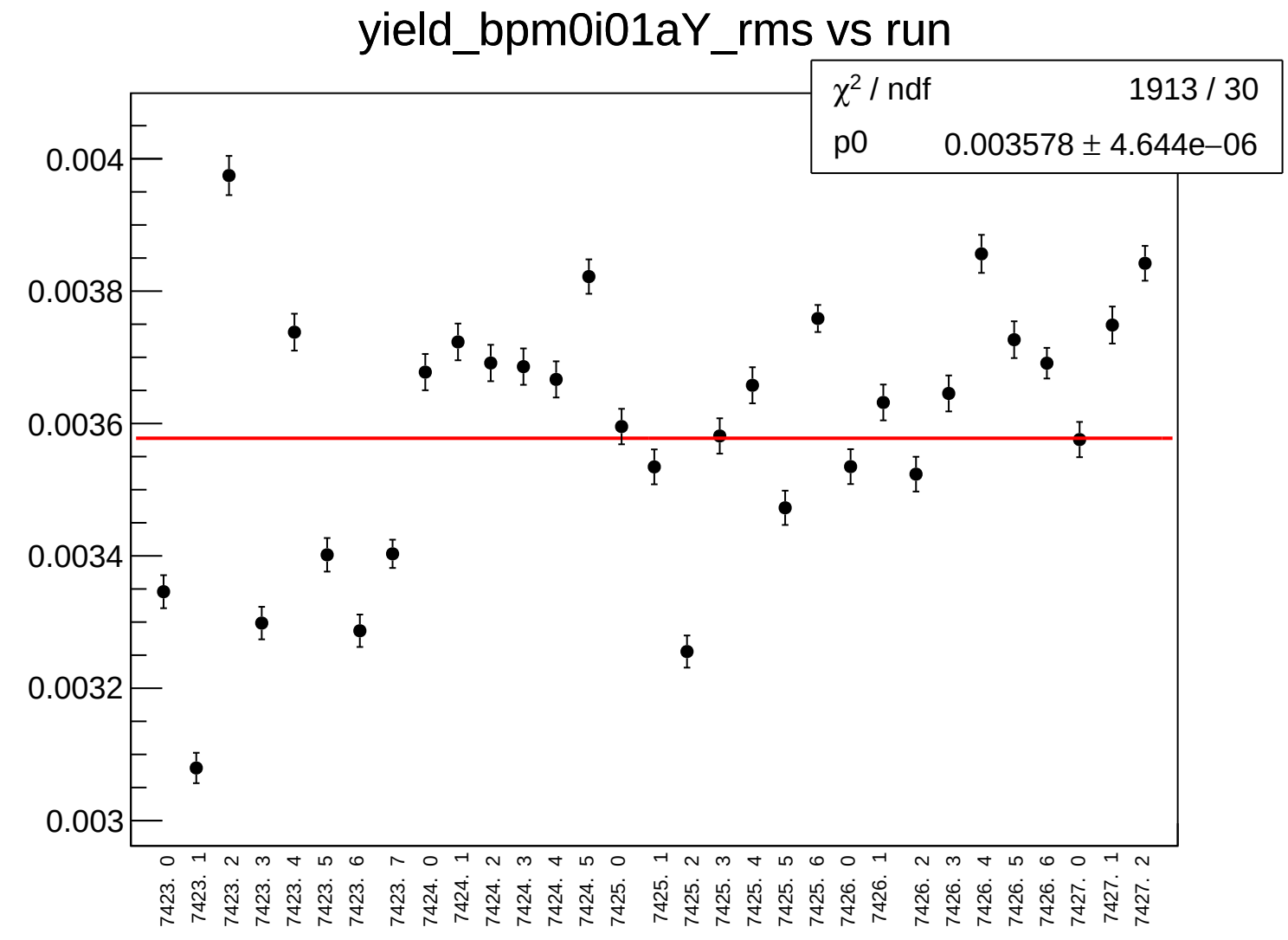

yield_bpm0i01aX_mean vs run
χ² / ndf 2.342e+05 / 30
p0 −1.636 ± 7.406e−06
−1.63
−1.632
−1.634
−1.636
−1.638
−1.64
−1.642
−1.644
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 441.3
Std Dev 0
150
100
50
0
−50
−100
−150
−200

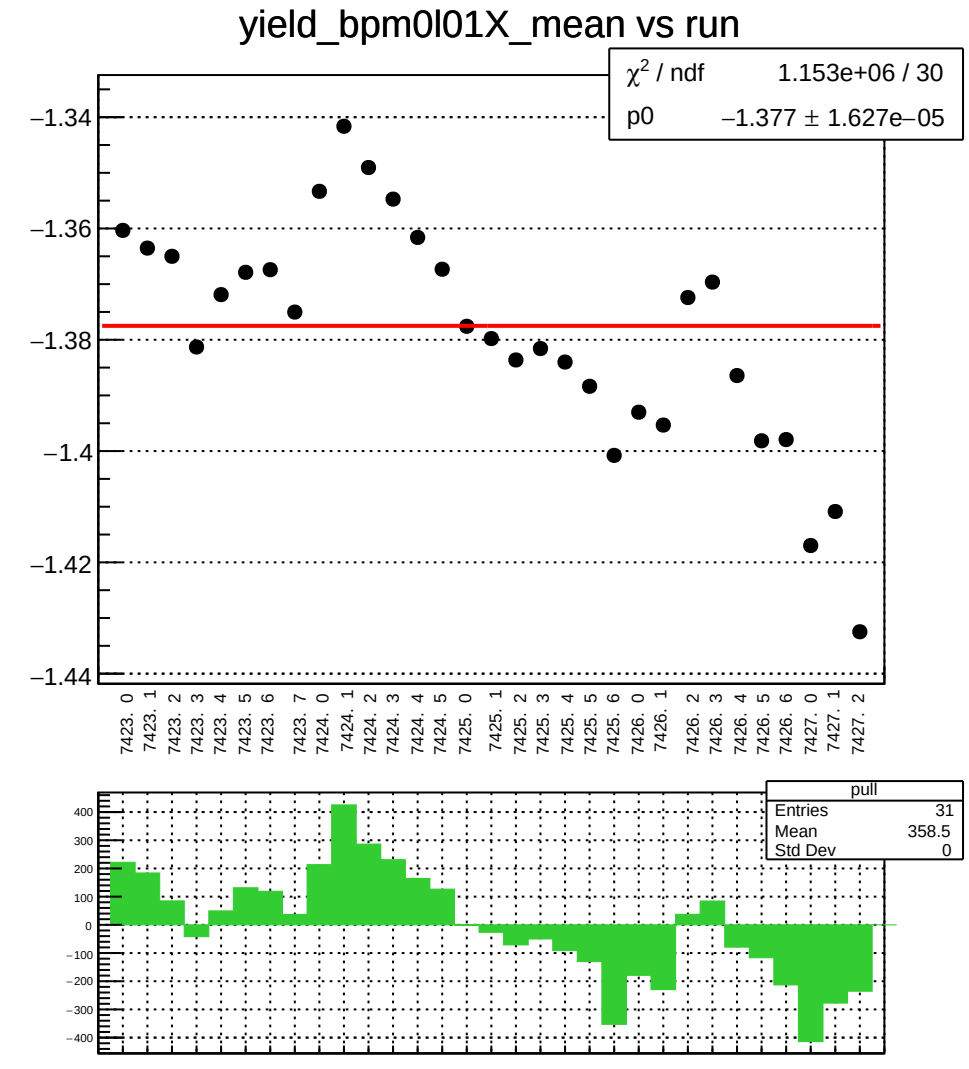

pull1D
Entries 31
Mean 1.806
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

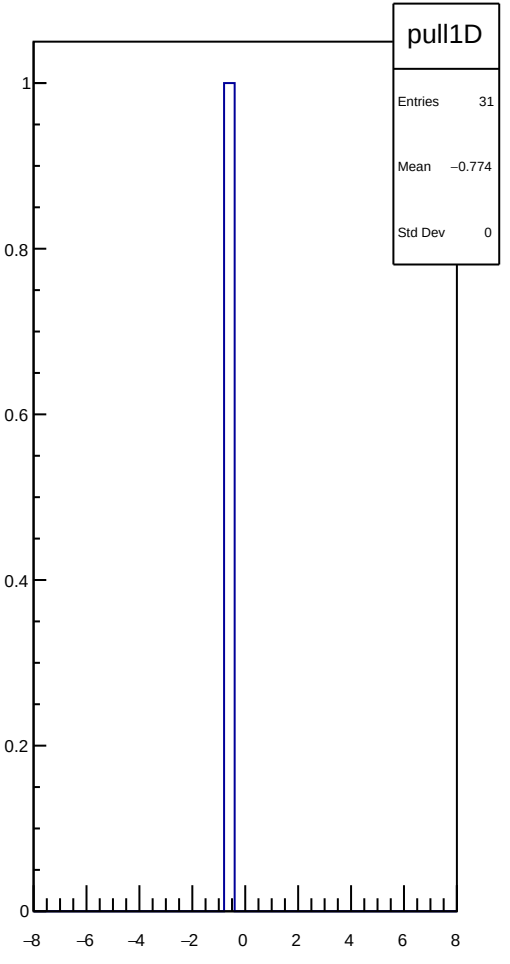

yield_bpm0i01aX_rms vs run
χ² / ndf 5974 / 30
p0 0.004021 ± 5.237e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

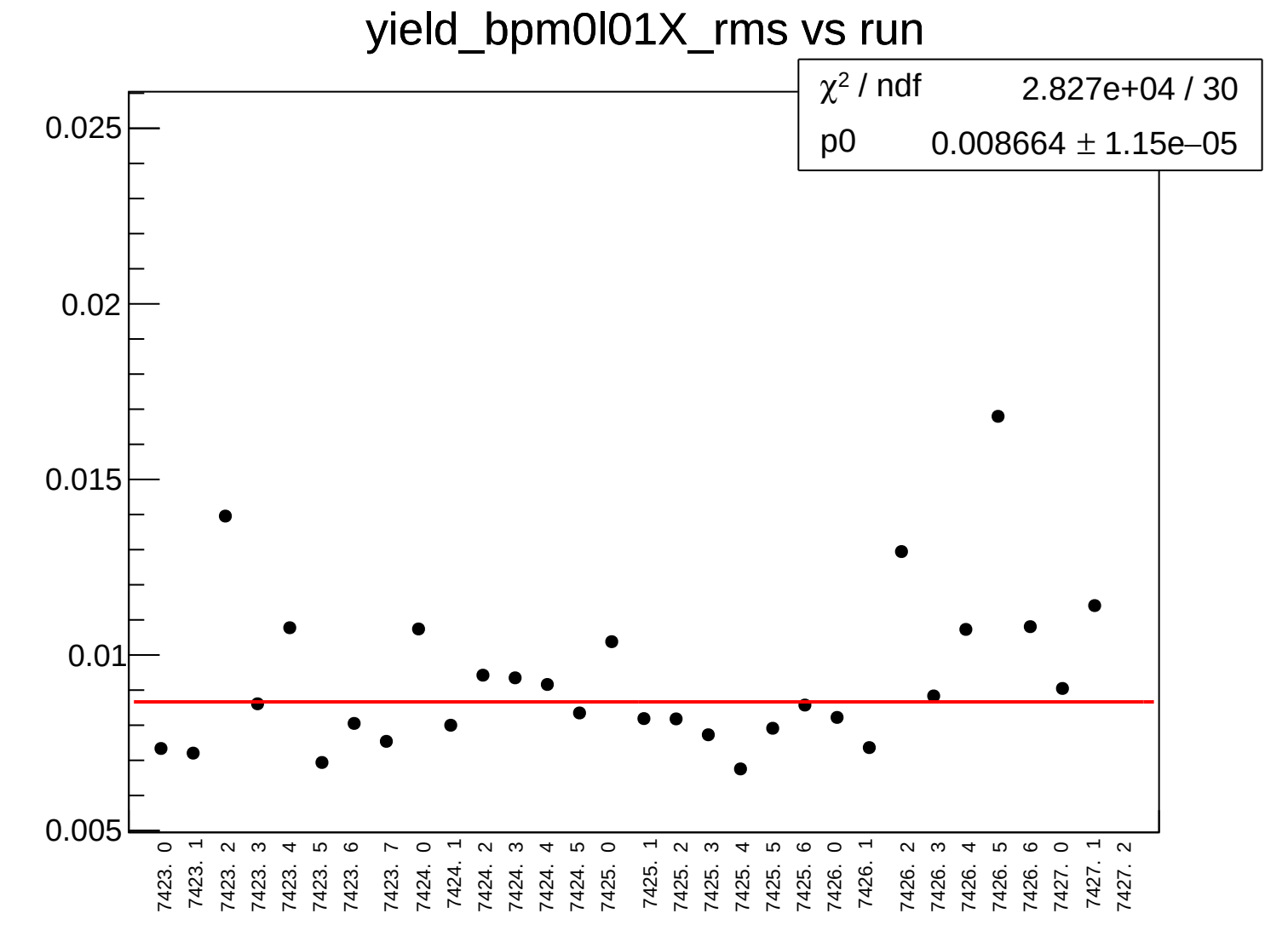

yield_bpm0i01aY_mean vs run
χ² / ndf 1.037e+06 / 30
p0 2.634 ± 6.567e−06
2.645
2.64
2.635
2.63
2.625
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 483.2
Std Dev 0
300
200
100
0
−100
−200

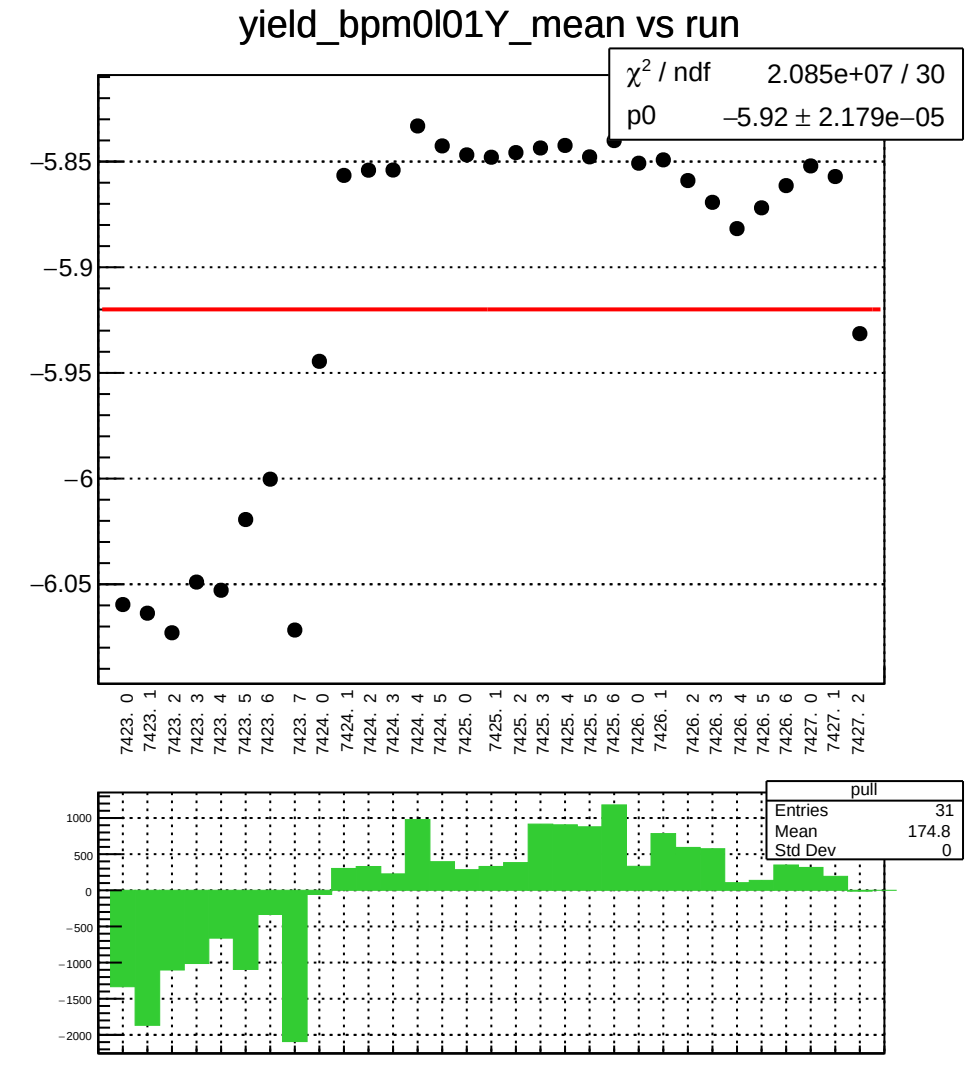

pull1D
Entries 31
Mean −2.289
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

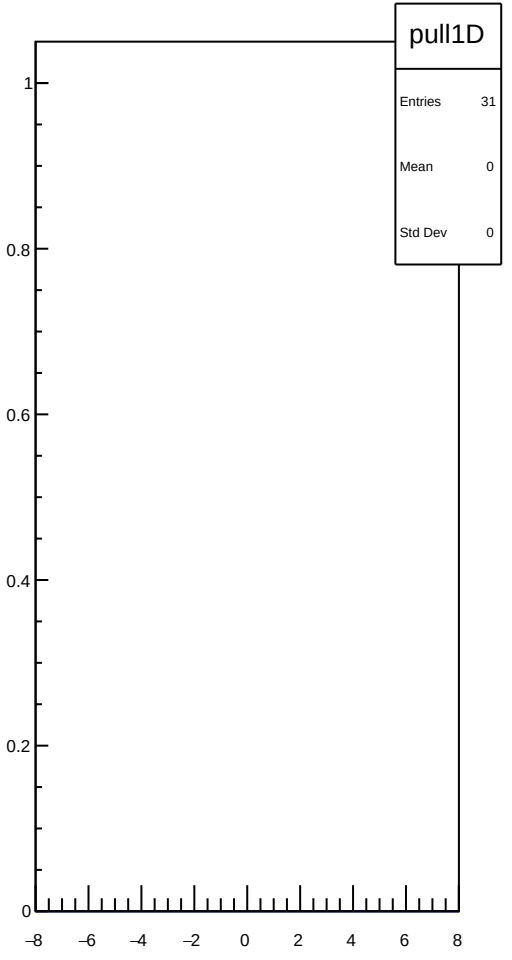

yield_bpm0i01aY_rms vs run
χ² / ndf 1913 / 30
p0 0.003578 ± 4.644e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

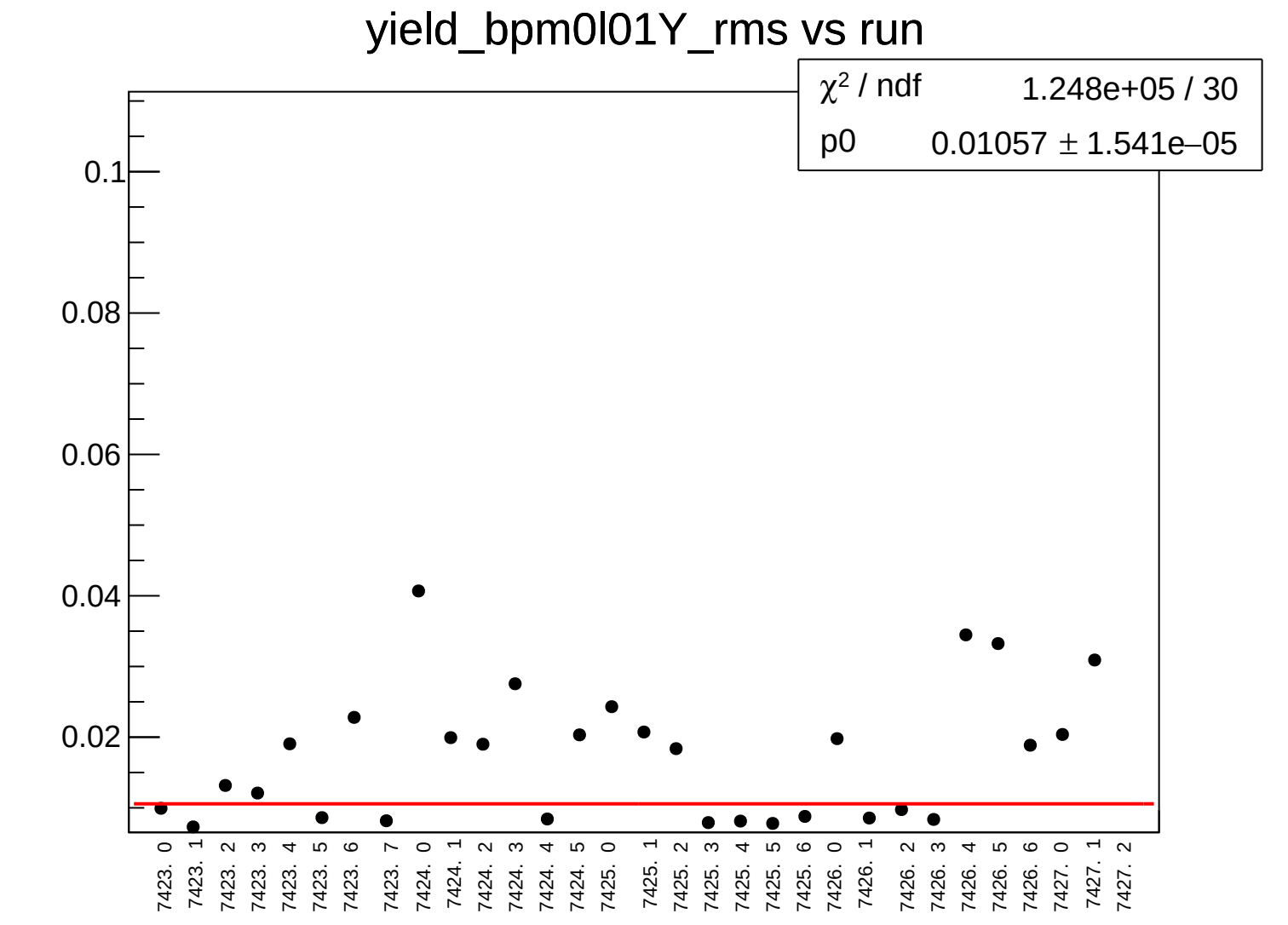

yield_bpm0l01X_mean vs run
χ² / ndf 1.153e+06 / 30
p0 −1.377 ± 1.627e−05
−1.34
−1.36
−1.38
−1.4
−1.42
−1.44
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 358.5
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

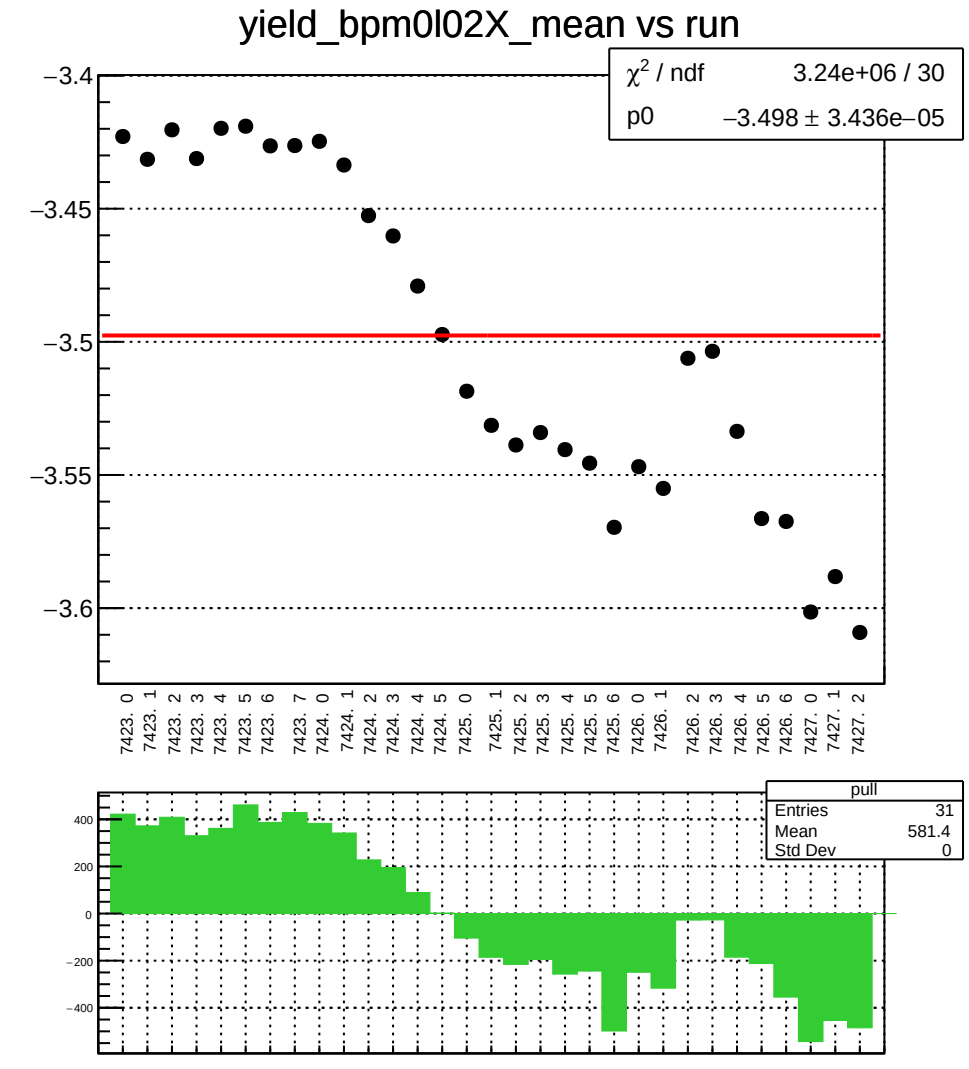

pull1D
Entries 31
Mean −0.774
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

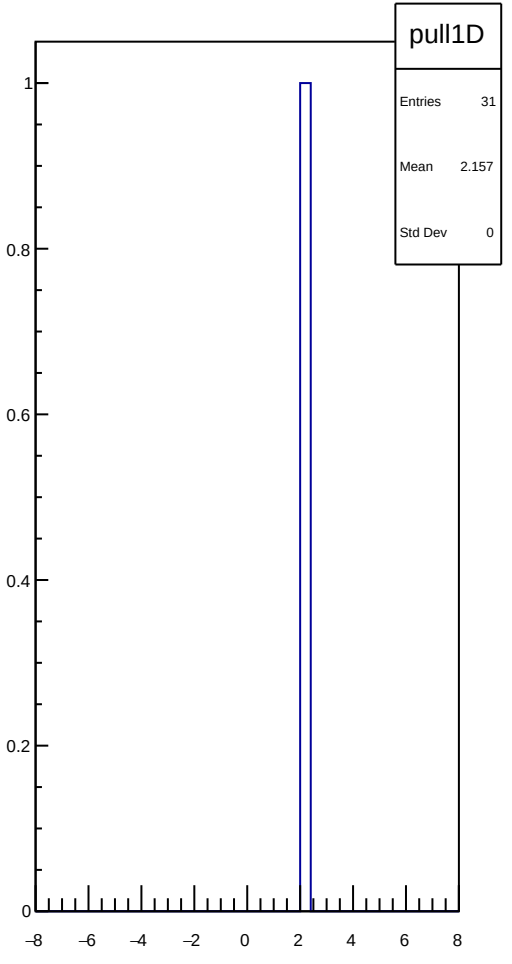

yield_bpm0l01X_rms vs run
χ² / ndf 2.827e+04 / 30
p0 0.008664 ± 1.15e−05
0.025
0.02
0.015
0.01
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

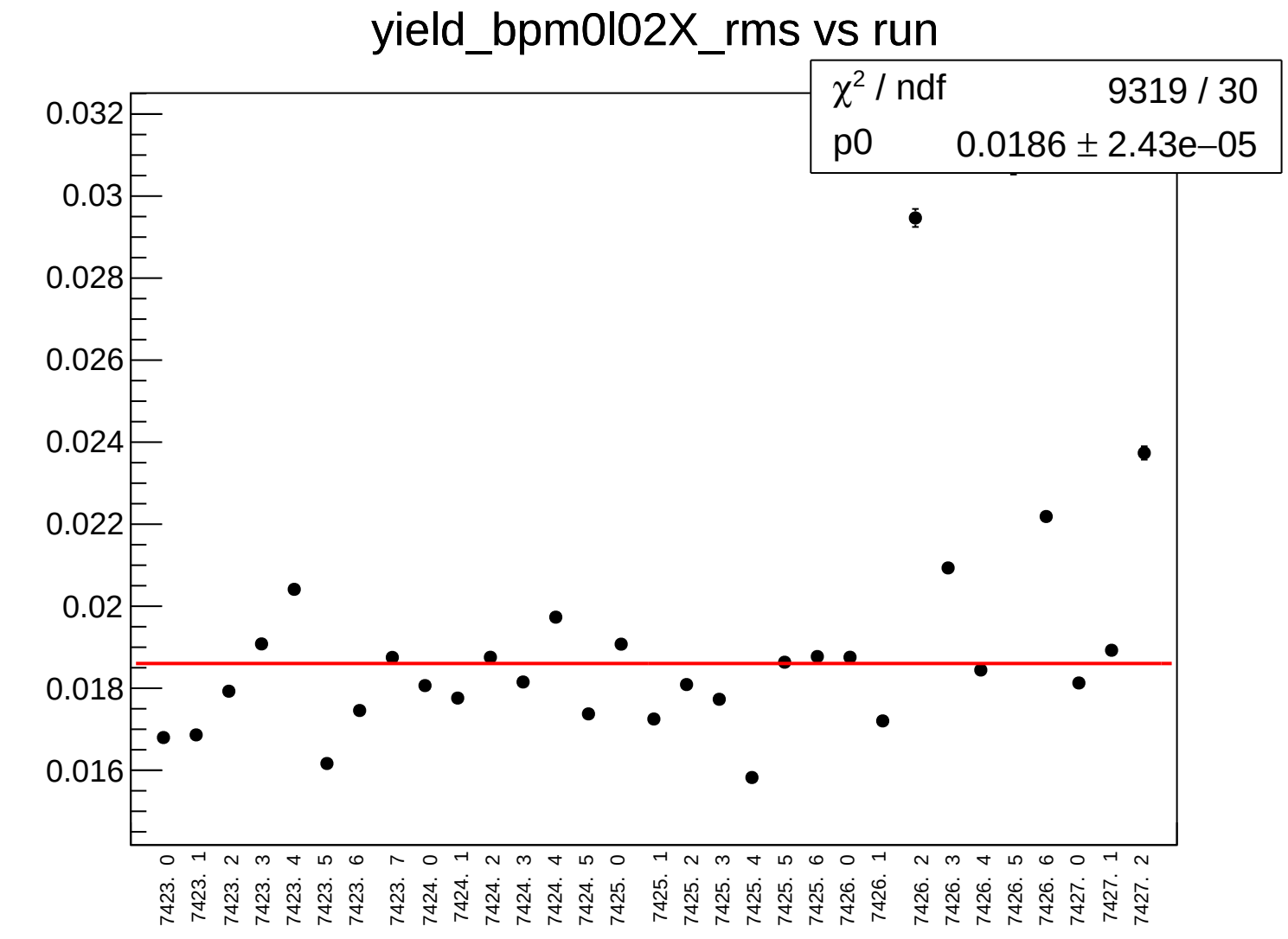

yield_bpm0l01Y_mean vs run
χ² / ndf 2.085e+07 / 30
p0 −5.92 ± 2.179e−05
−5.85
−5.9
−5.95
−6
−6.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 174.8
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

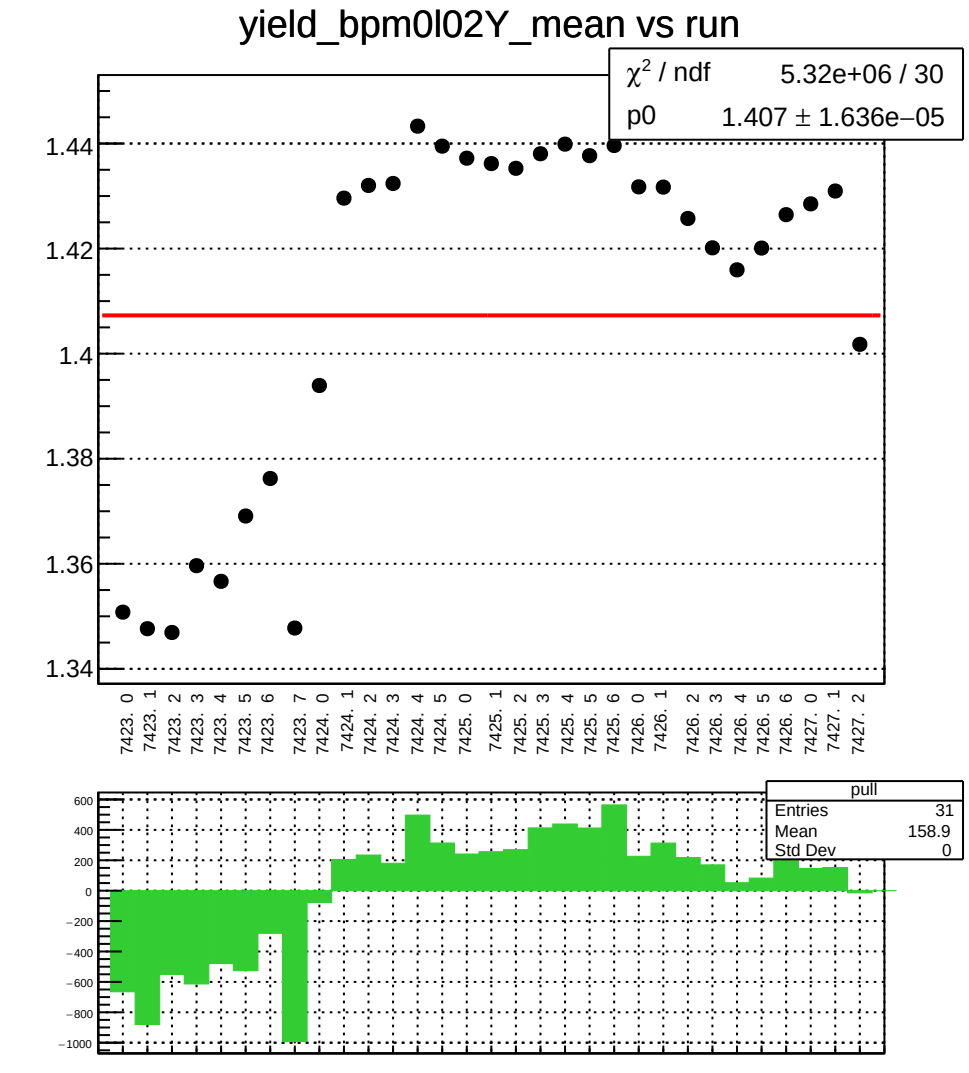

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

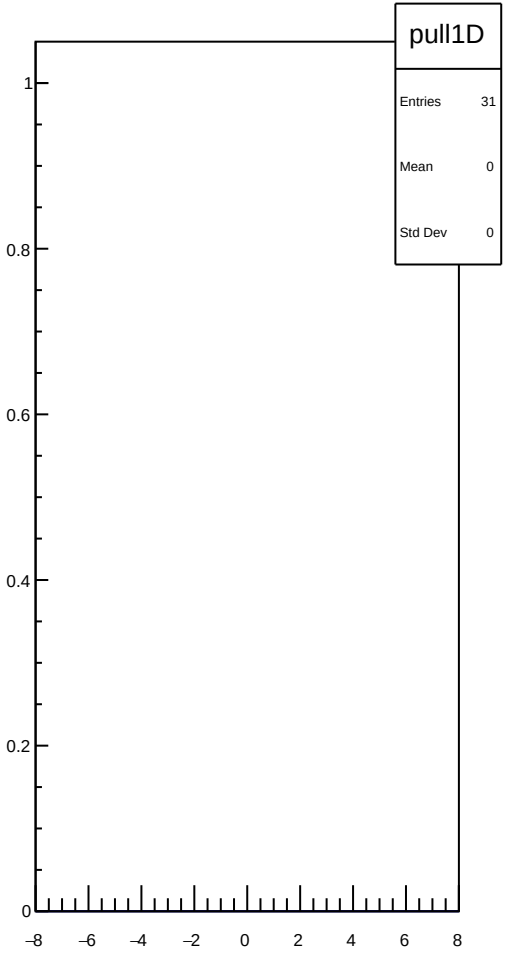

yield_bpm0l01Y_rms vs run
χ² / ndf 1.248e+05 / 30
p0 0.01057 ± 1.541e–05
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

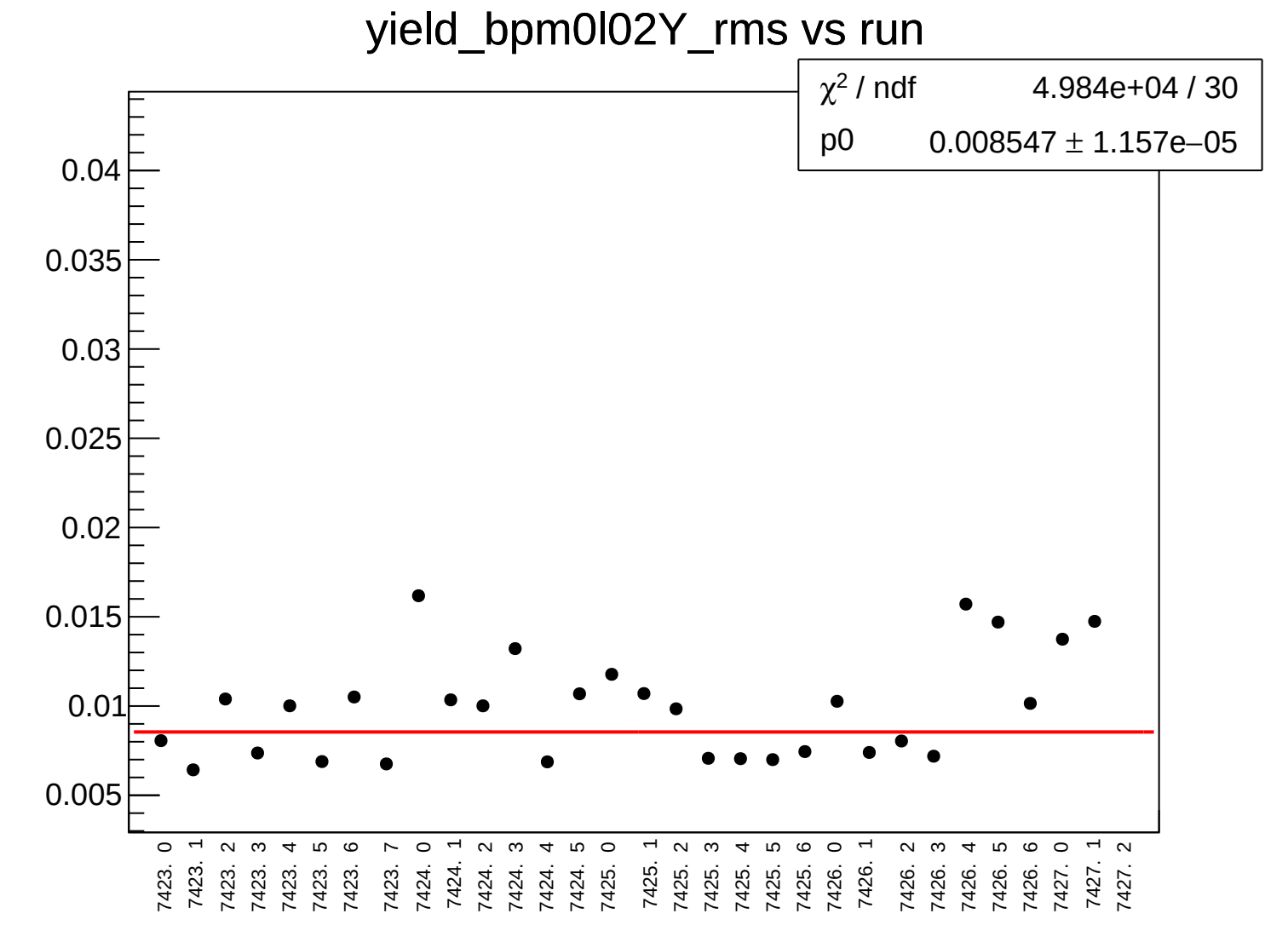

yield_bpm0l02X_mean vs run
χ² / ndf 3.24e+06 / 30
p0 −3.498 ± 3.436e−05
−3.4
−3.45
−3.5
−3.55
−3.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 581.4
Std Dev 0
400
200
0
−200
−400

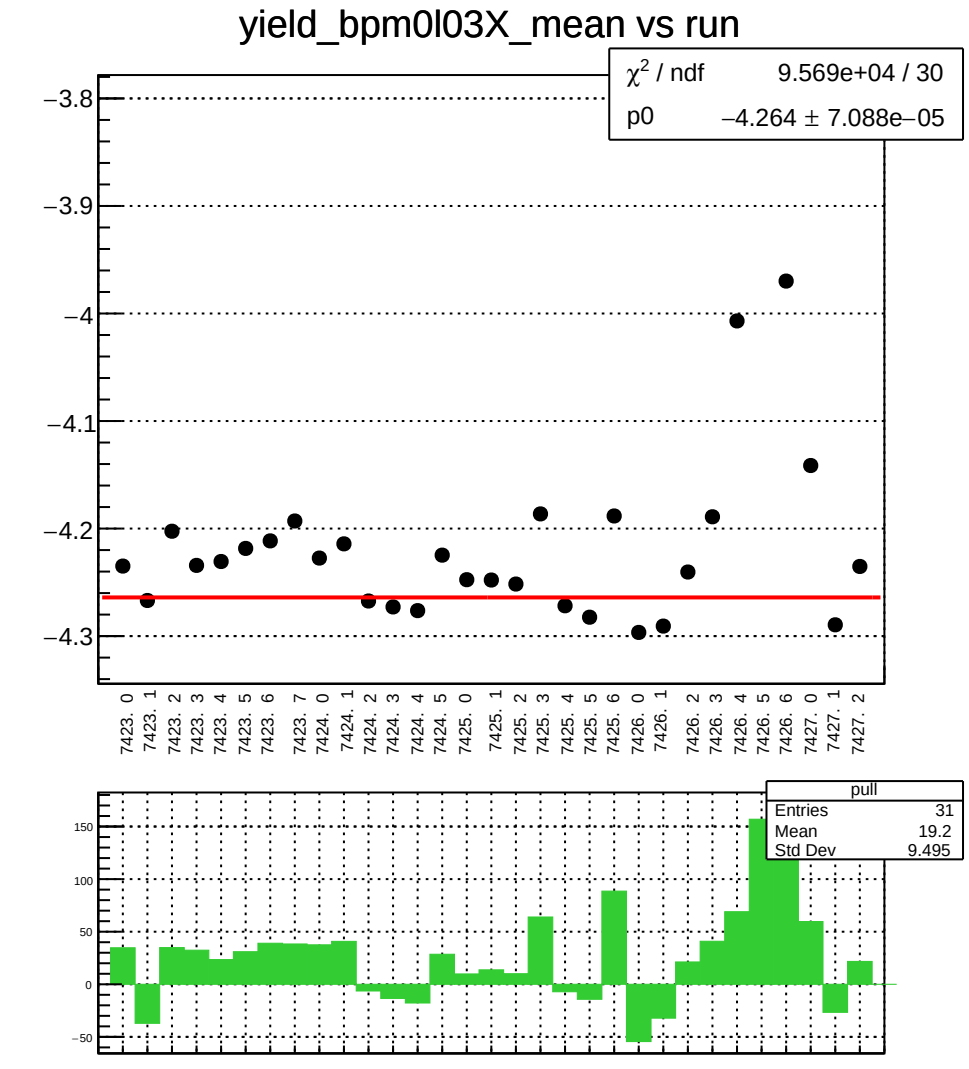

pull1D
Entries 31
Mean 2.157
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

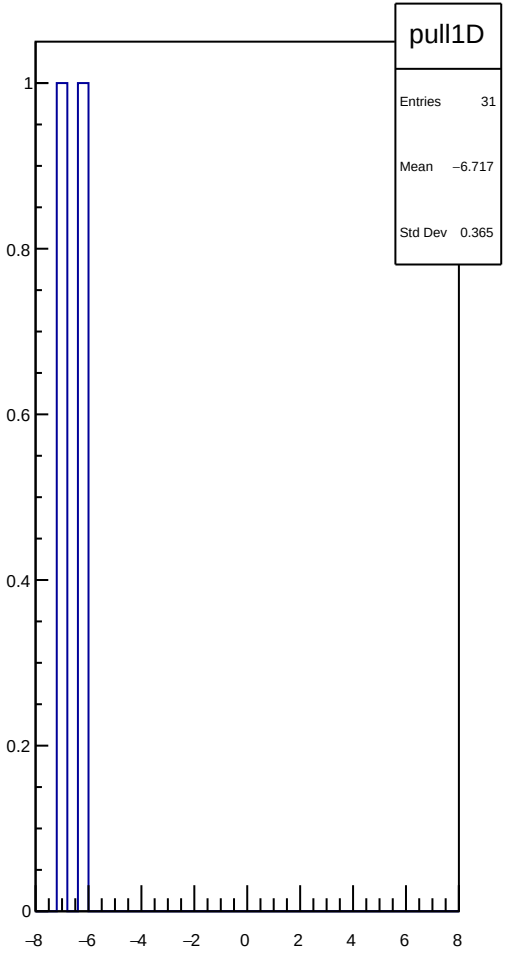

yield_bpm0l02X_rms vs run
χ^2 / ndf 9319 / 30
p0 0.0186 ± 2.43e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

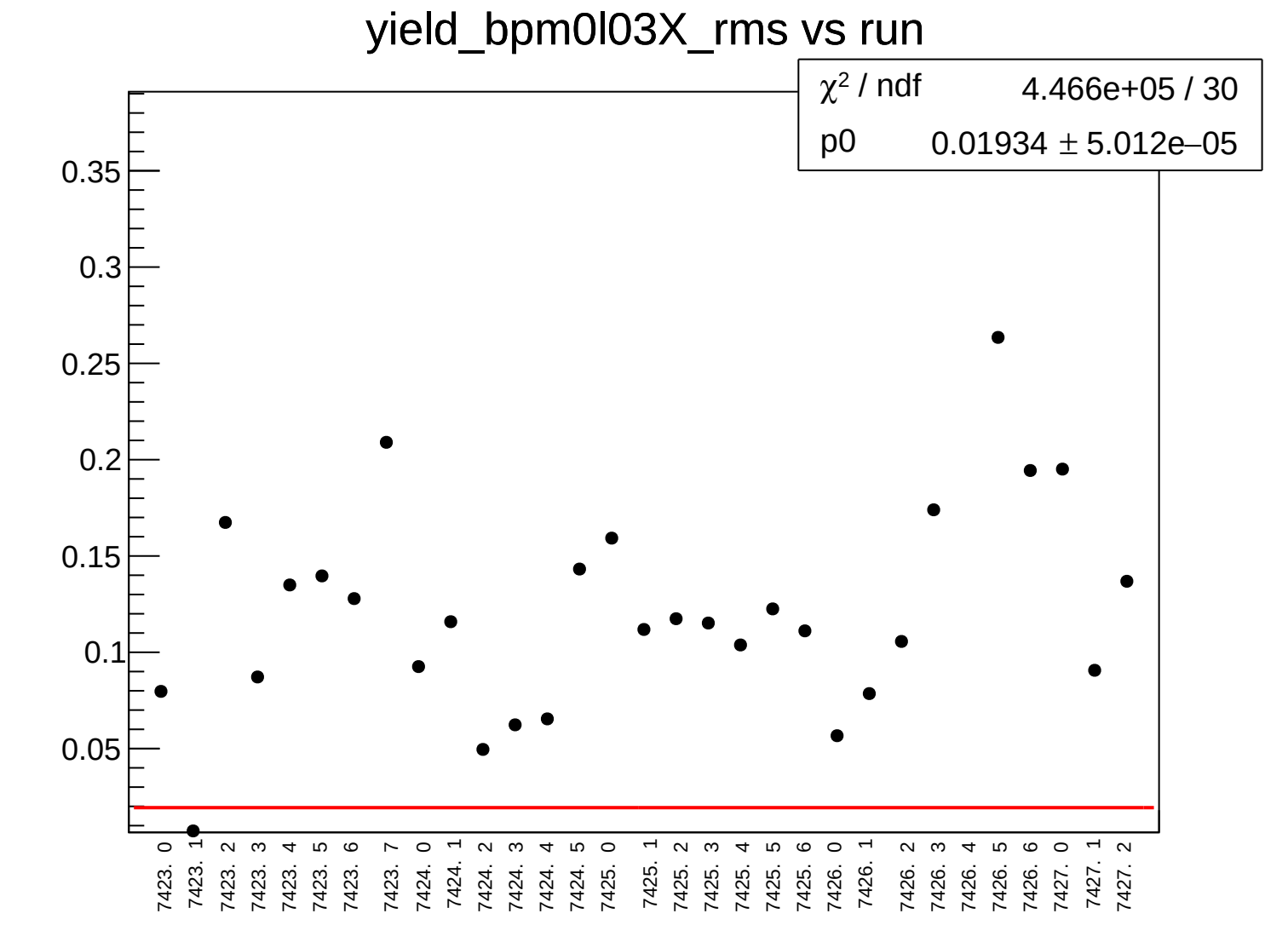

yield_bpm0l02Y_mean vs run
χ² / ndf 5.32e+06 / 30
p0 1.407 ± 1.636e−05
1.44
1.42
1.4
1.38
1.36
1.34
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 158.9
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

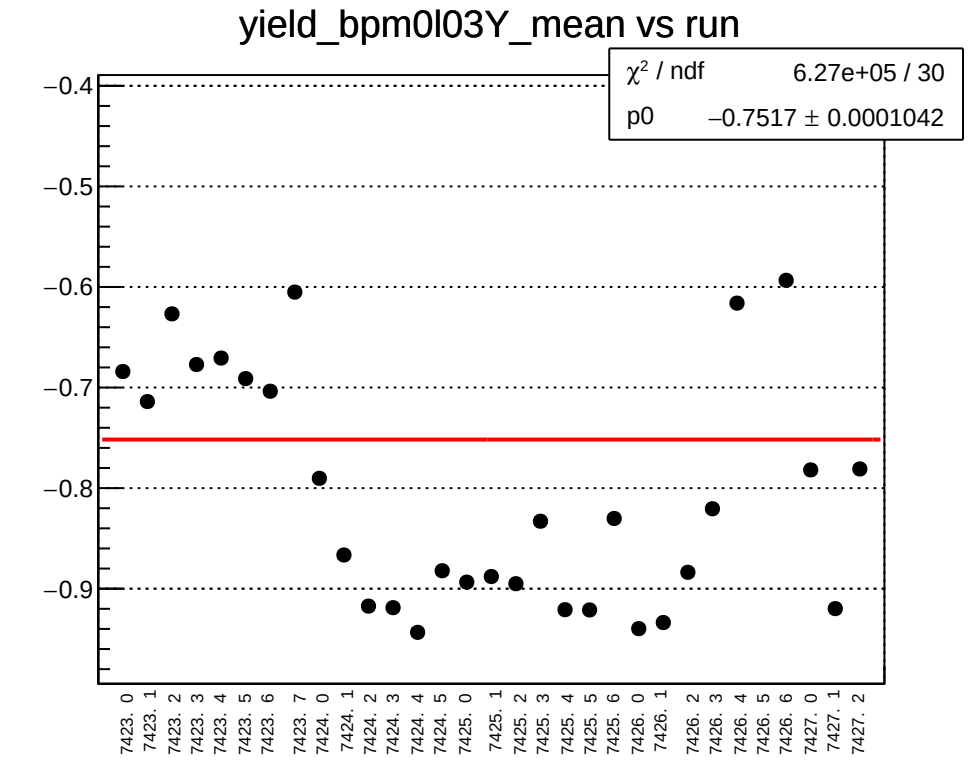

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

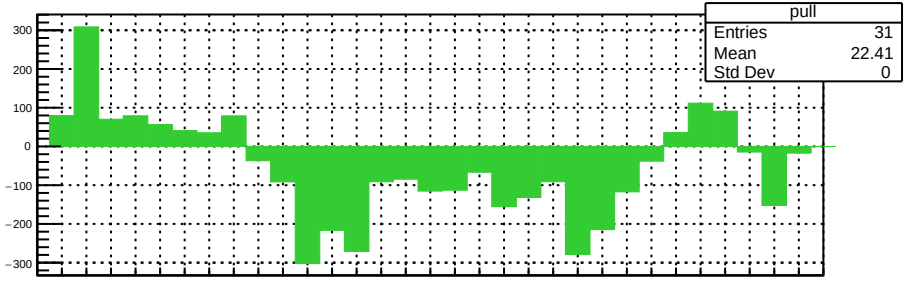

yield_bpm0l02Y_rms vs run
χ² / ndf 4.984e+04 / 30
p0 0.008547 ± 1.157e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

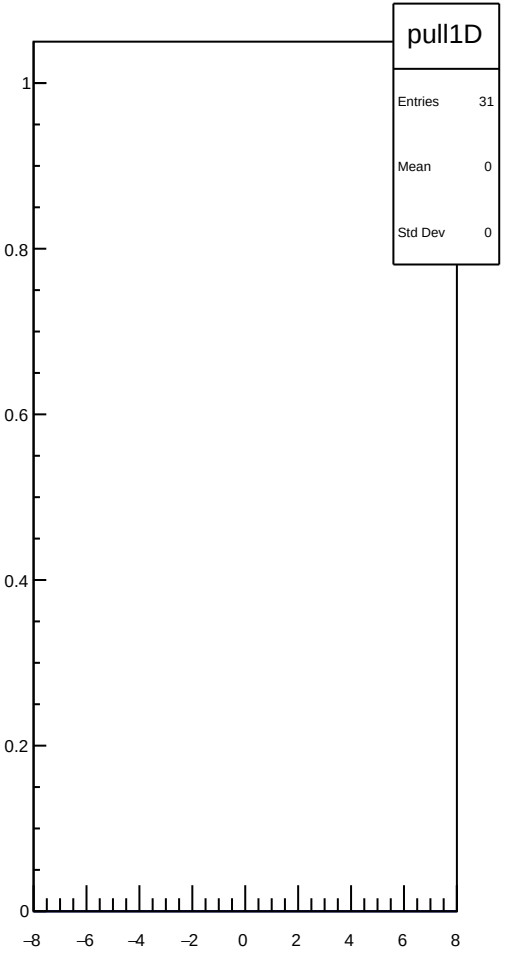

yield_bpm0l03X_mean vs run
χ² / ndf 9.569e+04 / 30
p0 −4.264 ± 7.088e−05
−3.8
−3.9
−4
−4.1
−4.2
−4.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 19.2
Std Dev 9.495
150
100
50
0
−50

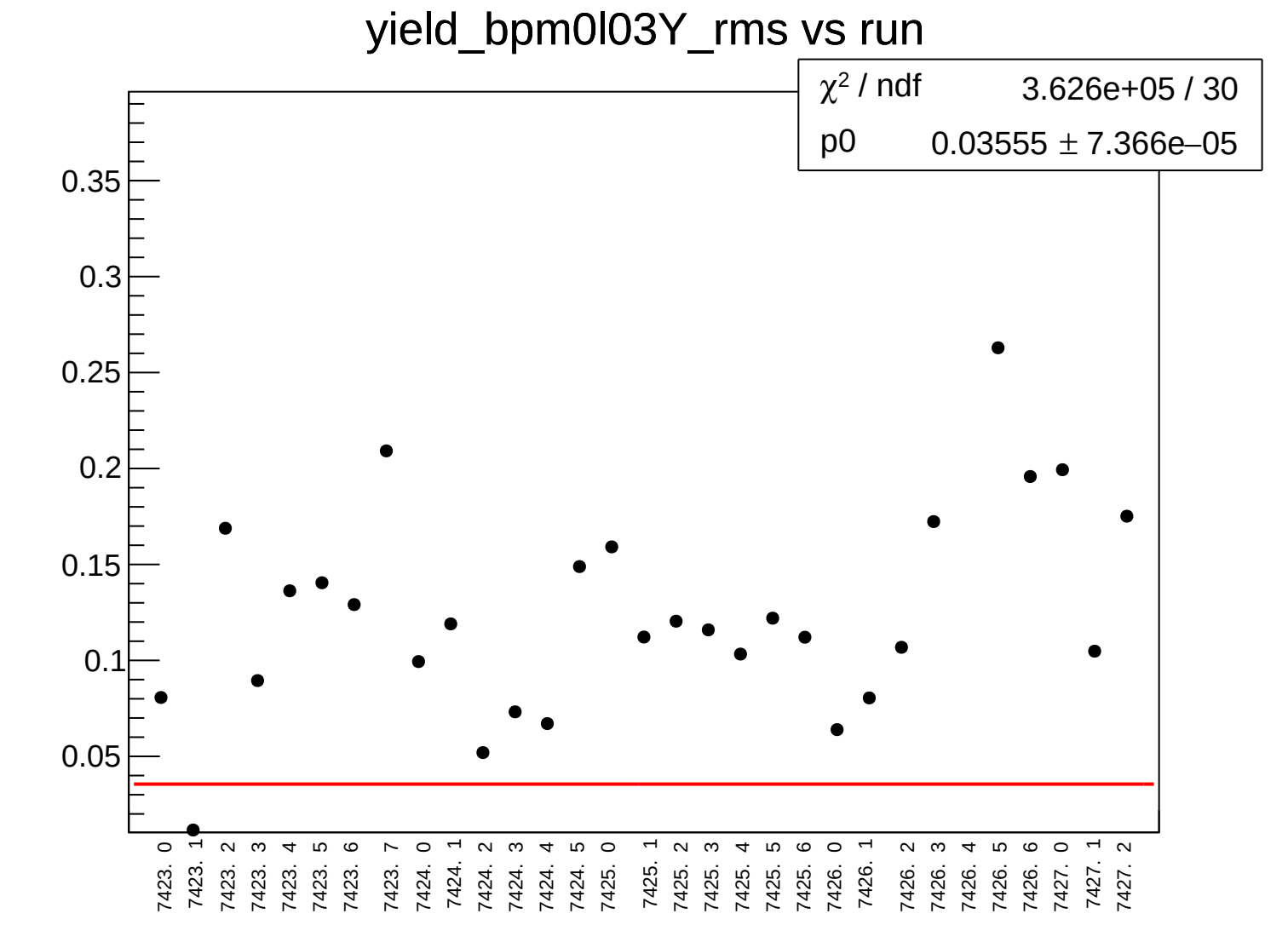

pull1D
Entries 31
Mean −6.717
Std Dev 0.365
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

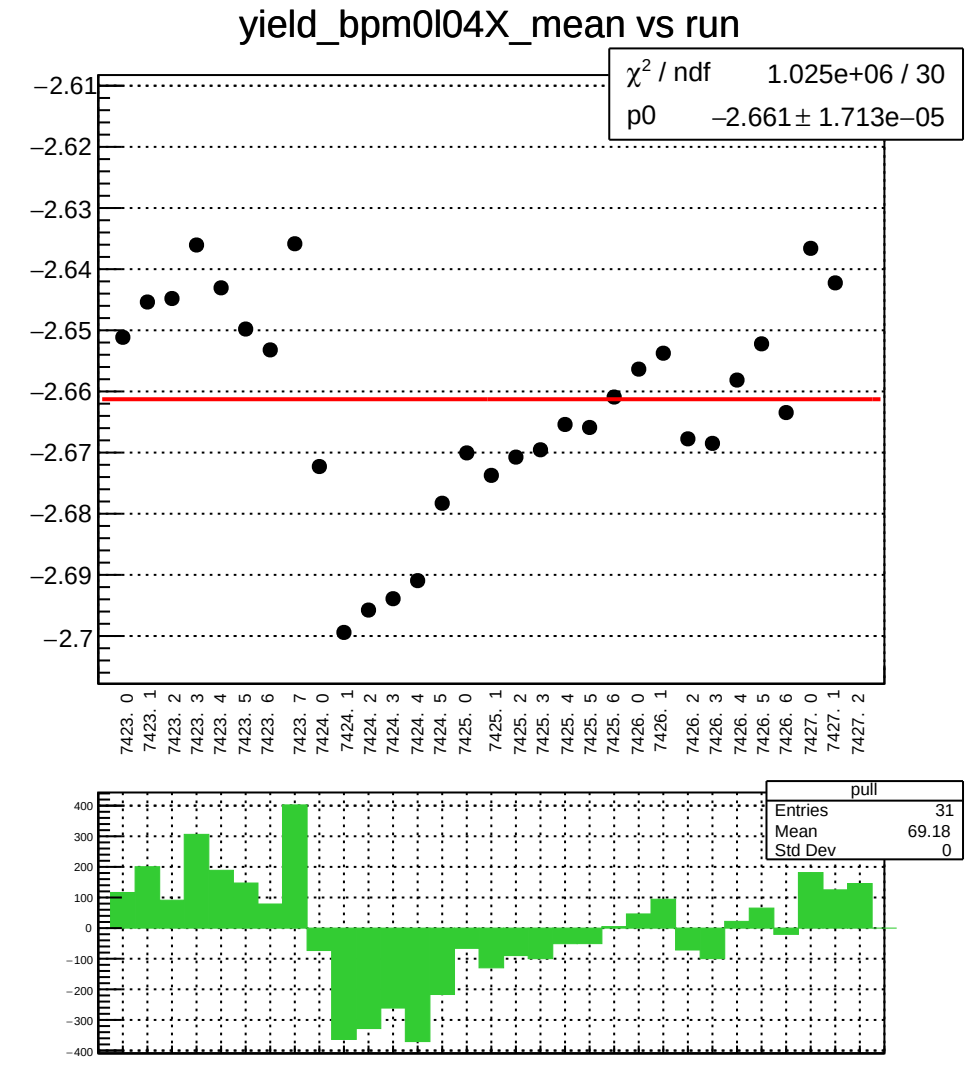

yield_bpm0l03X_rms vs run
χ² / ndf 4.466e+05 / 30
p0 0.01934 ± 5.012e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

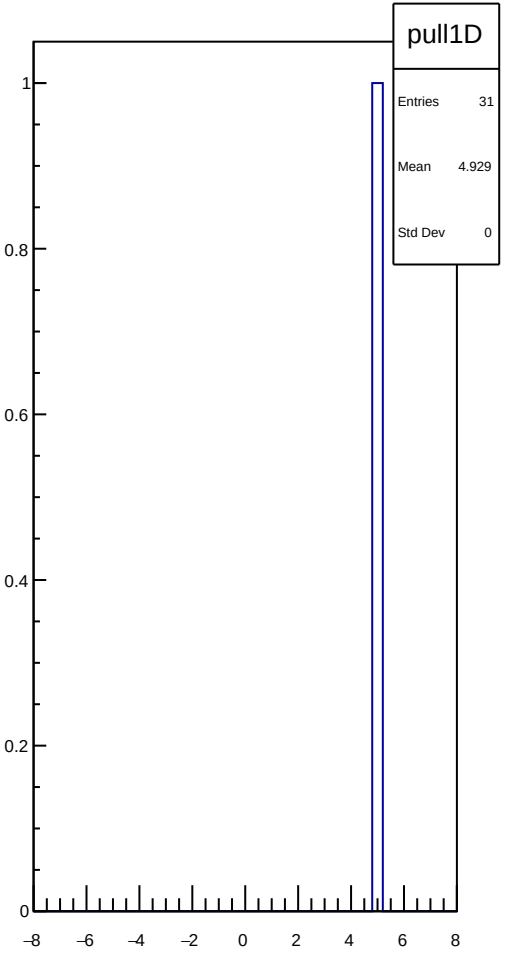

yield_bpm0l03Y_mean vs run
χ² / ndf 6.27e+05 / 30
p0 −0.7517 ± 0.0001042
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

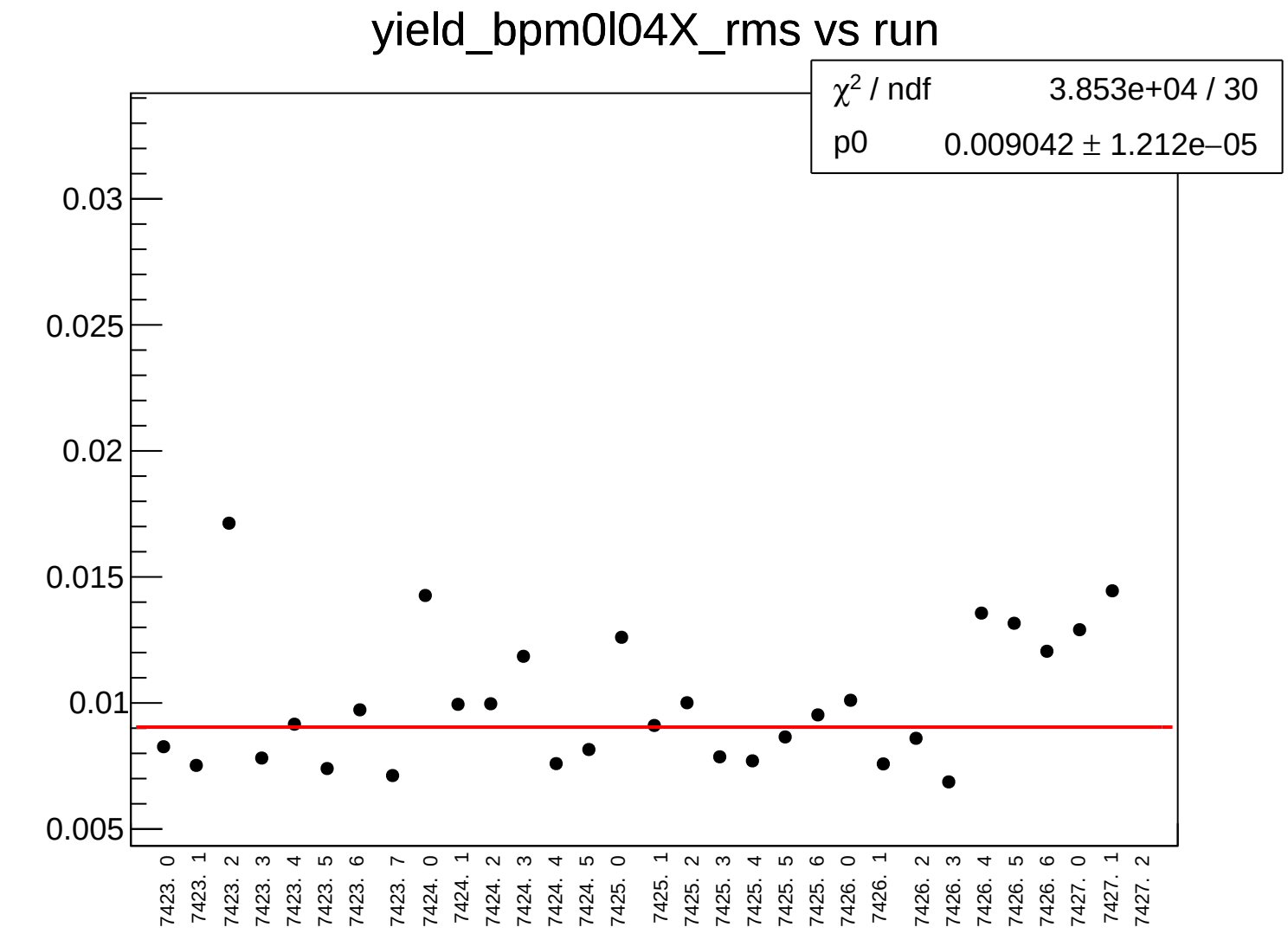

pull
Entries 31
Mean 22.41
Std Dev 0
300
200
100
0
−100
−200
−300

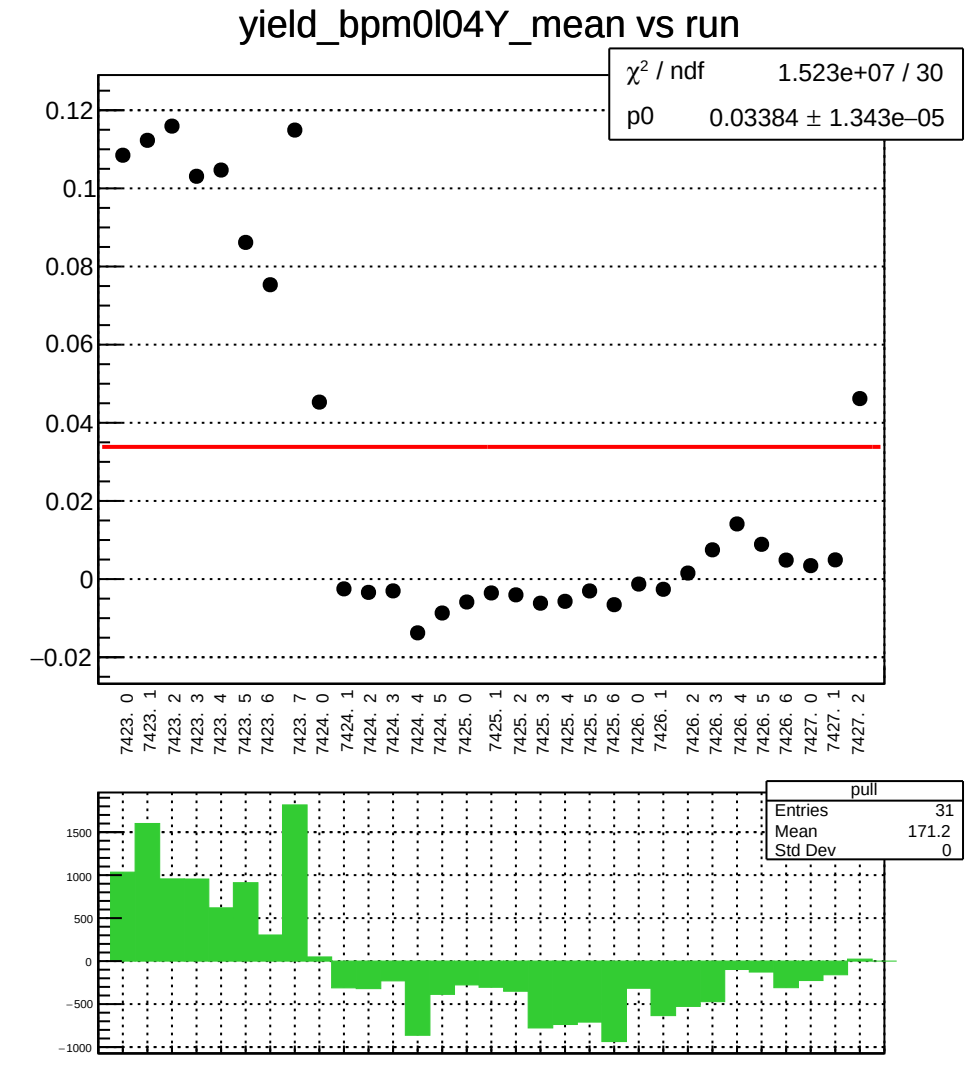

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

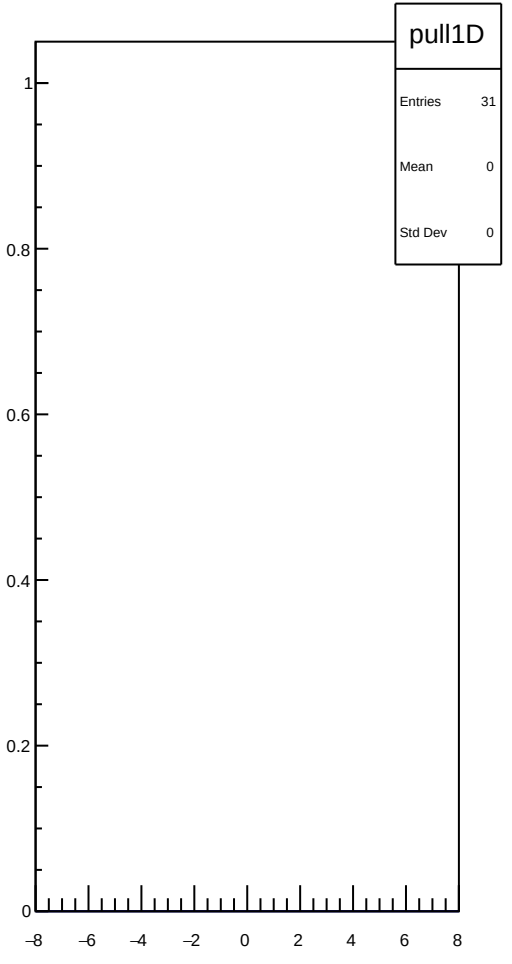

yield_bpm0l03Y_rms vs run
χ² / ndf 3.626e+05 / 30
p0 0.03555 ± 7.366e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

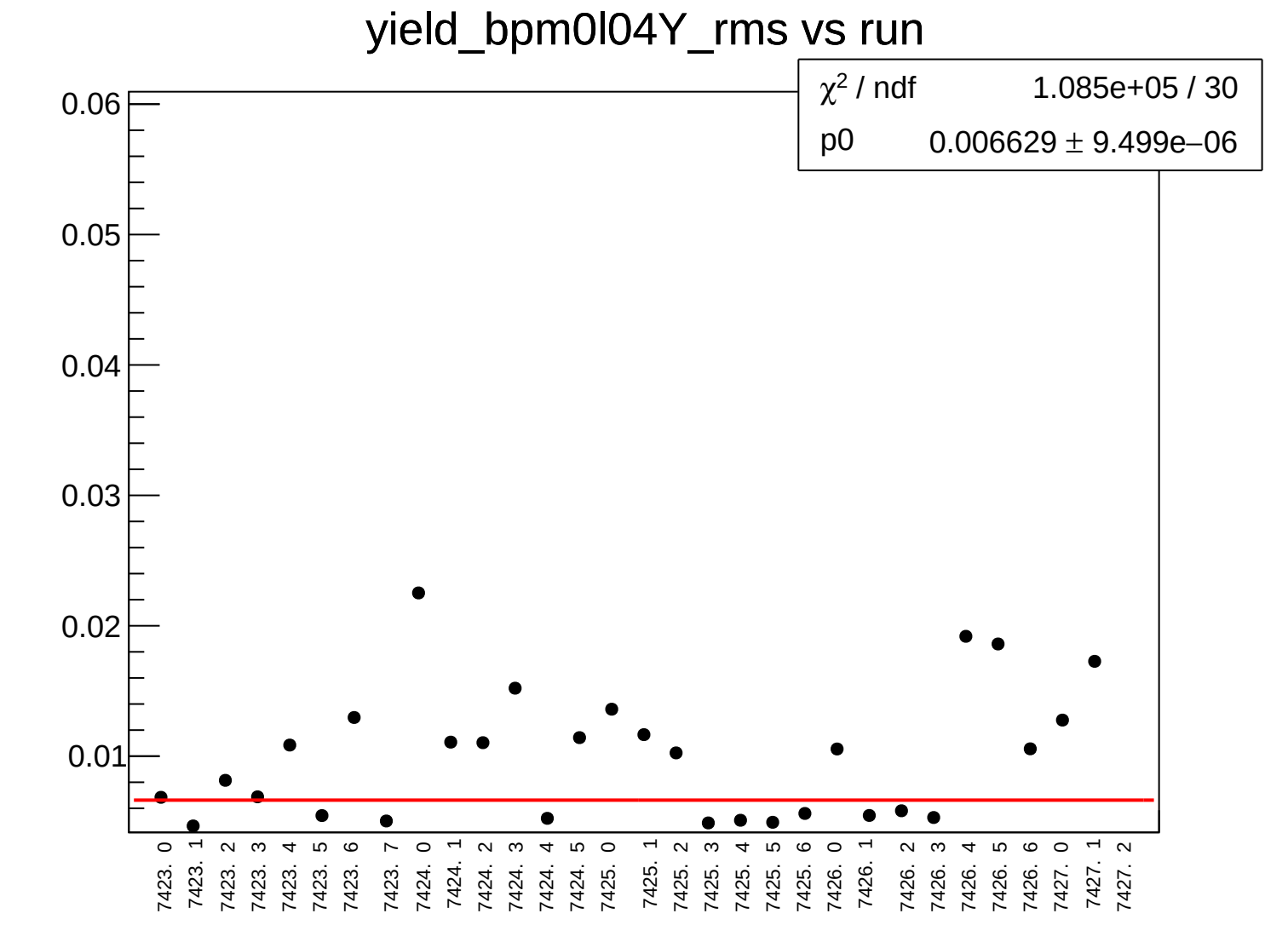

yield_bpm0l04X_mean vs run
χ² / ndf 1.025e+06 / 30
p0 −2.661 ± 1.713e−05
−2.61
−2.62
−2.63
−2.64
−2.65
−2.66
−2.67
−2.68
−2.69
−2.7
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 69.18
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

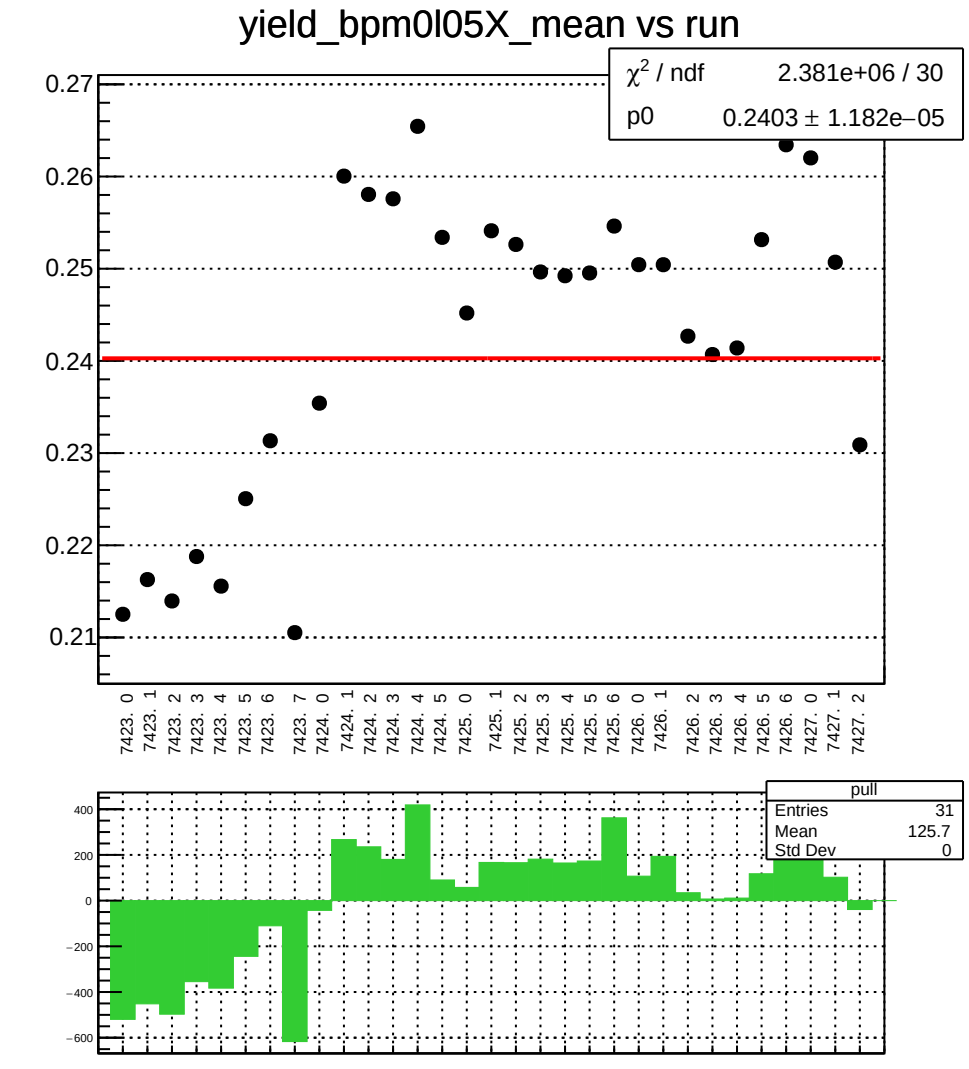

pull1D
Entries 31
Mean 4.929
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

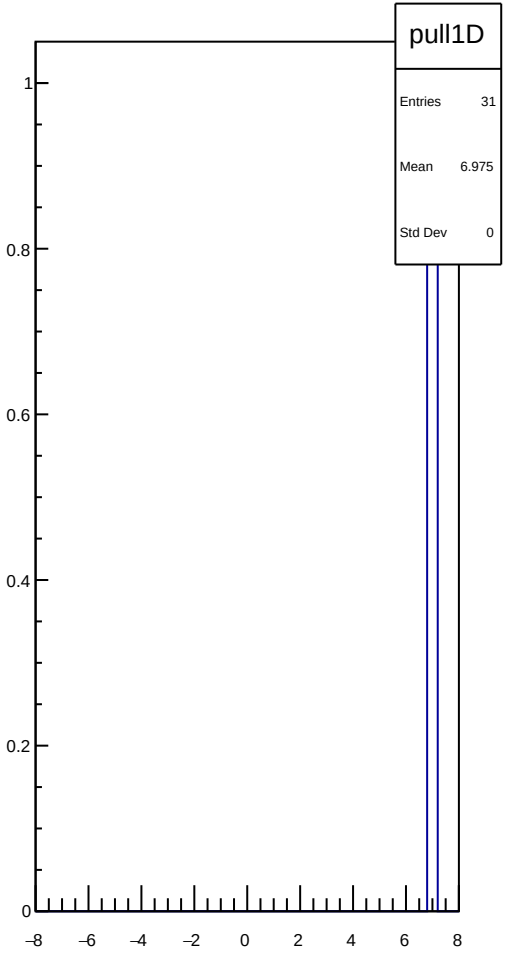

yield_bpm0l04X_rms vs run
χ² / ndf 3.853e+04 / 30
p0 0.009042 ± 1.212e−05
0.03
0.025
0.02
0.015
0.01
0.005
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

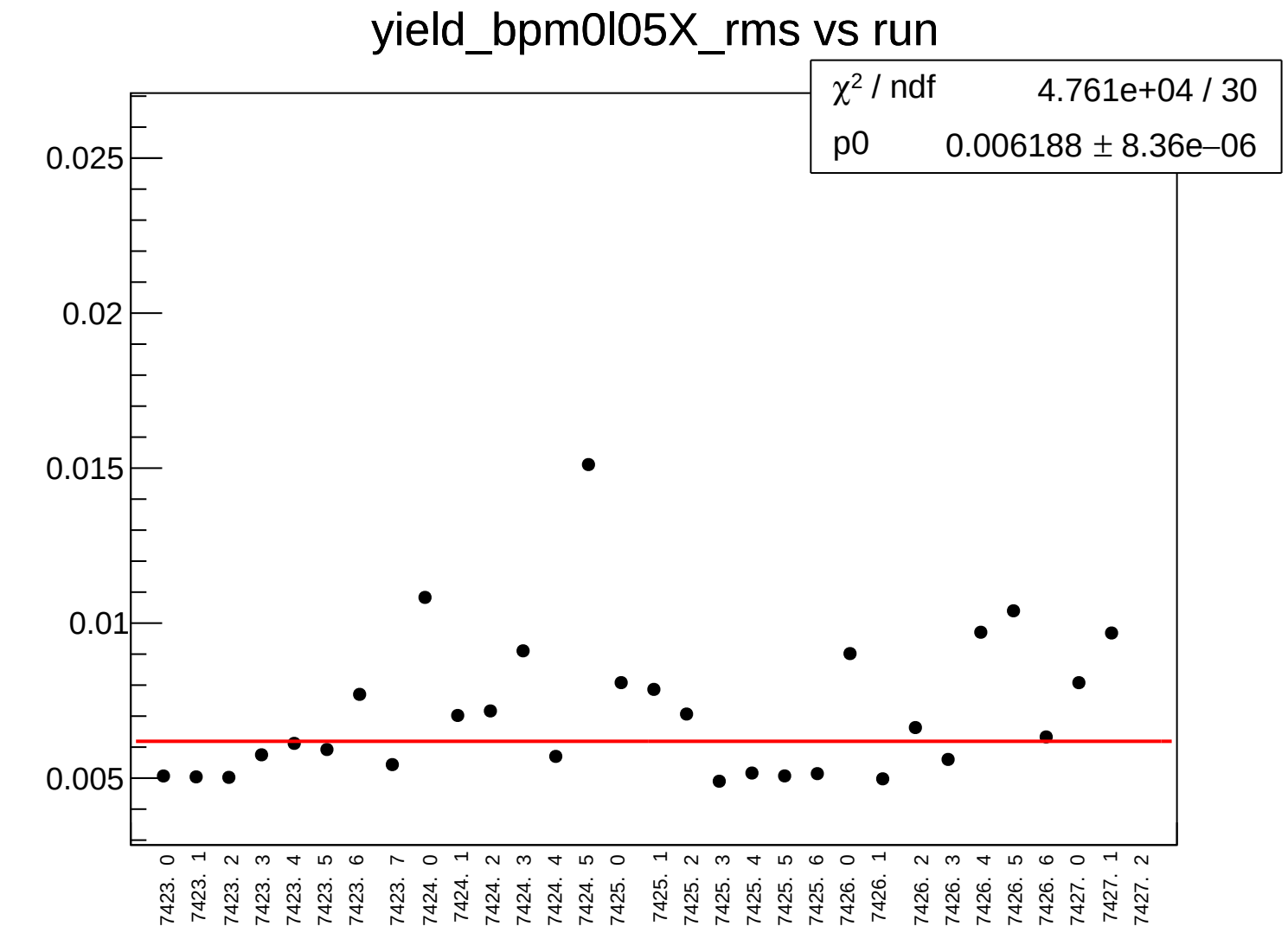

yield_bpm0l04Y_mean vs run
χ² / ndf 1.523e+07 / 30
p0 0.03384 ± 1.343e−05
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 171.2
Std Dev 0
1500
1000
500
0
−500
−1000

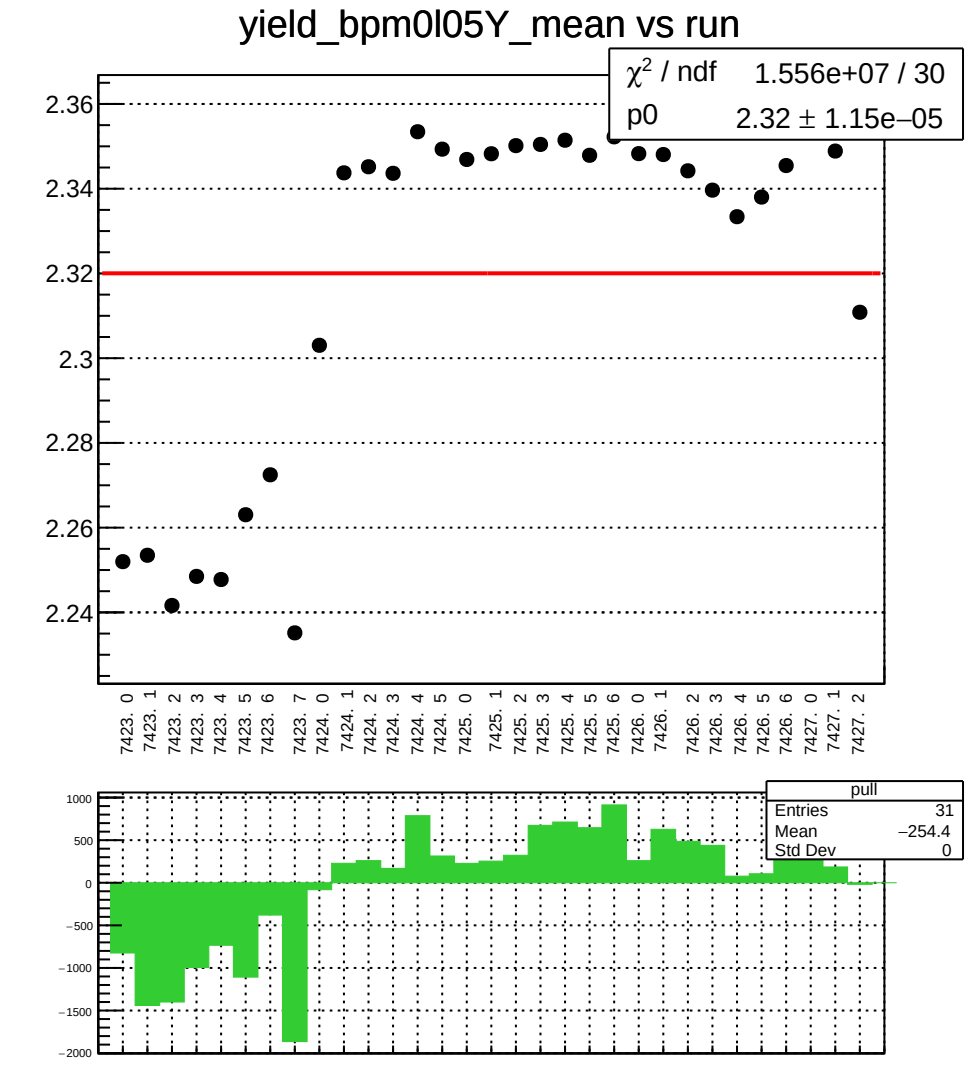

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

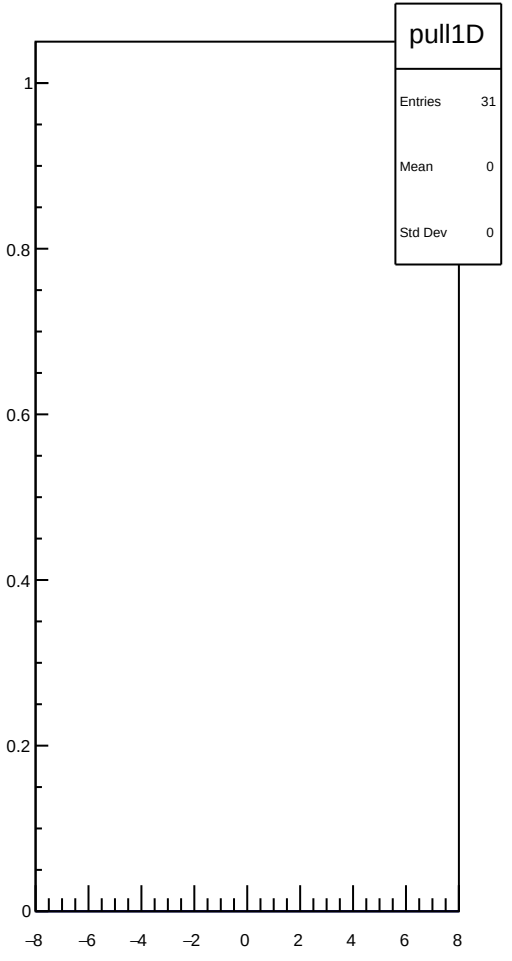

yield_bpm0l04Y_rms vs run
χ² / ndf 1.085e+05 / 30
p0 0.006629 ± 9.499e−06
0.06
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

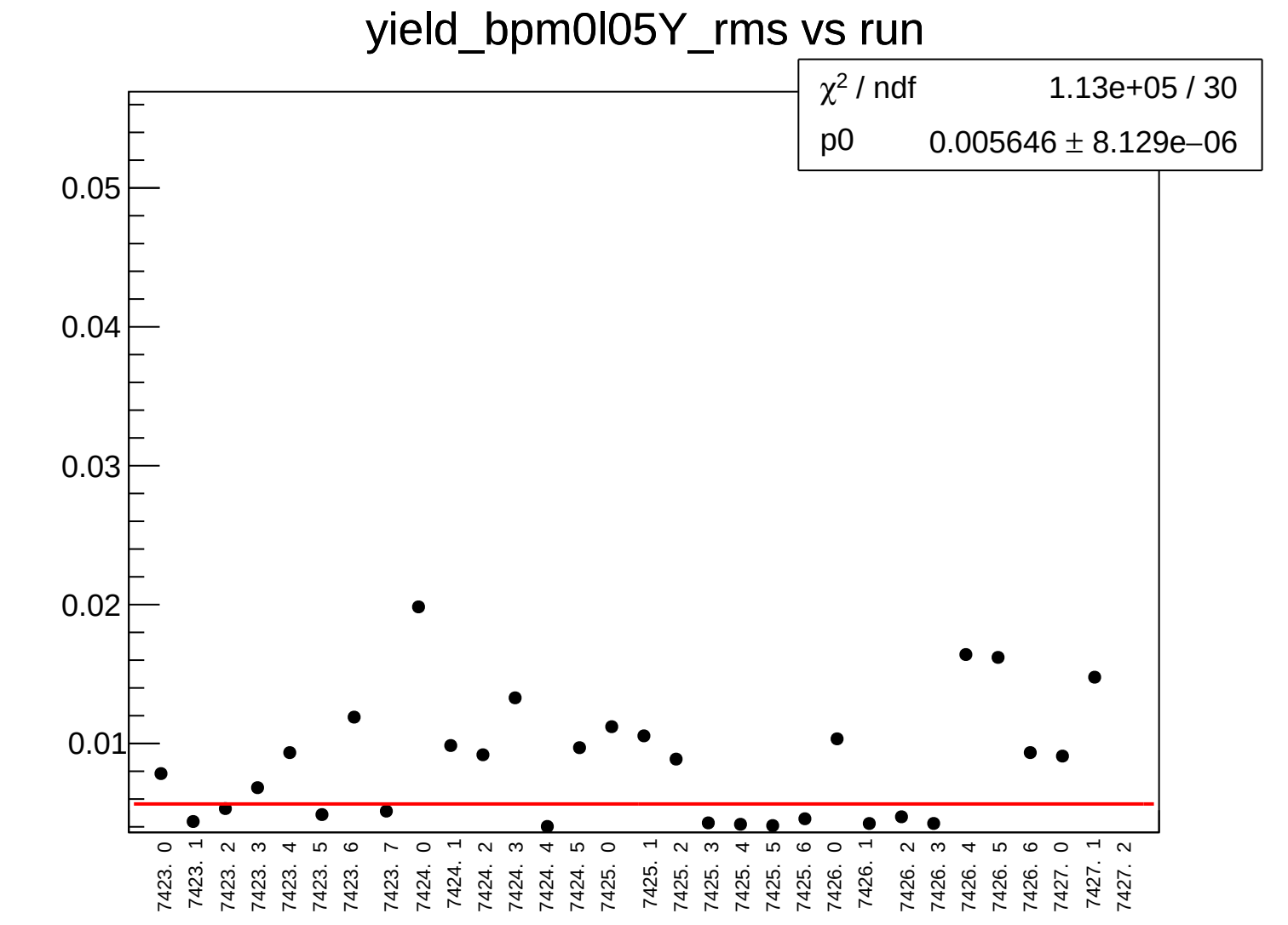

yield_bpm0l05X_mean vs run
χ² / ndf 2.381e+06 / 30
p0 0.2403 ± 1.182e−05
0.27
0.26
0.25
0.24
0.23
0.22
0.21
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 125.7
Std Dev 0
400
200
0
−200
−400
−600

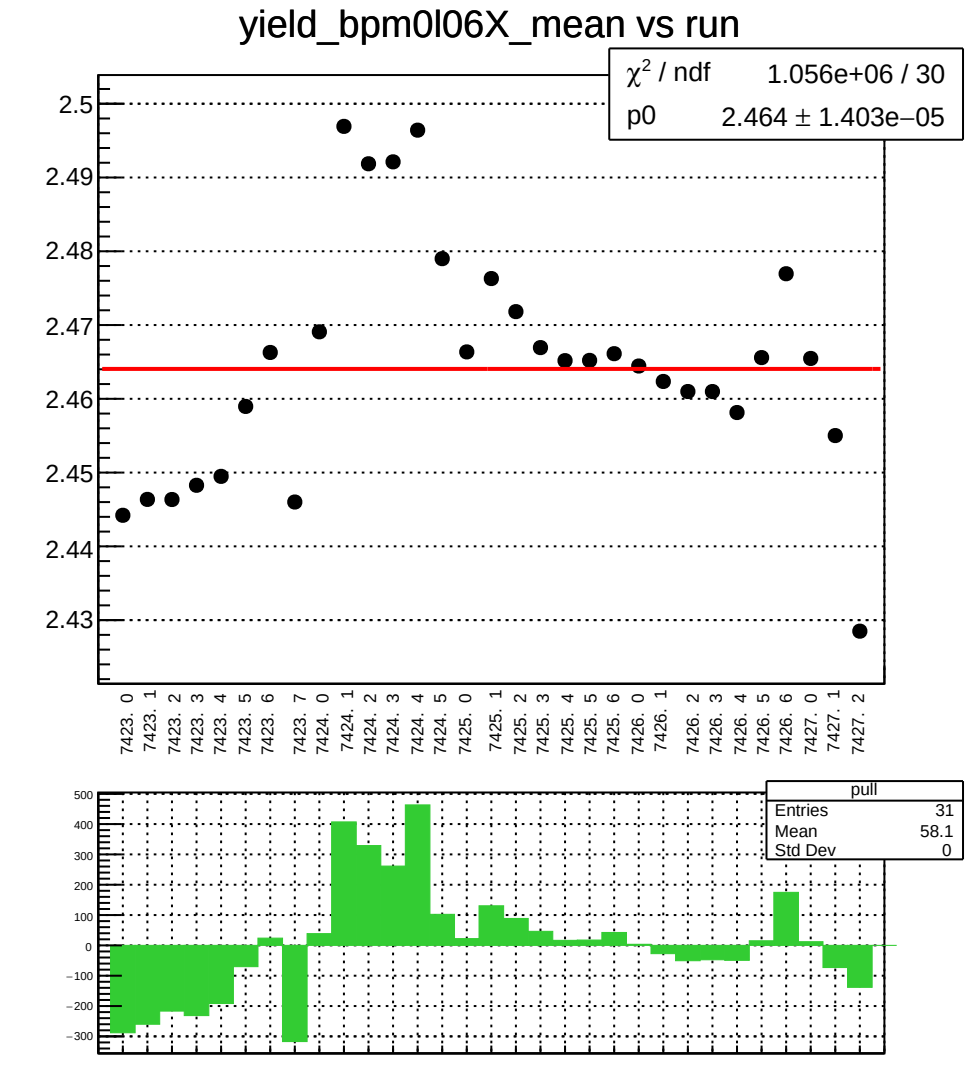

pull1D
Entries 31
Mean 6.975
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

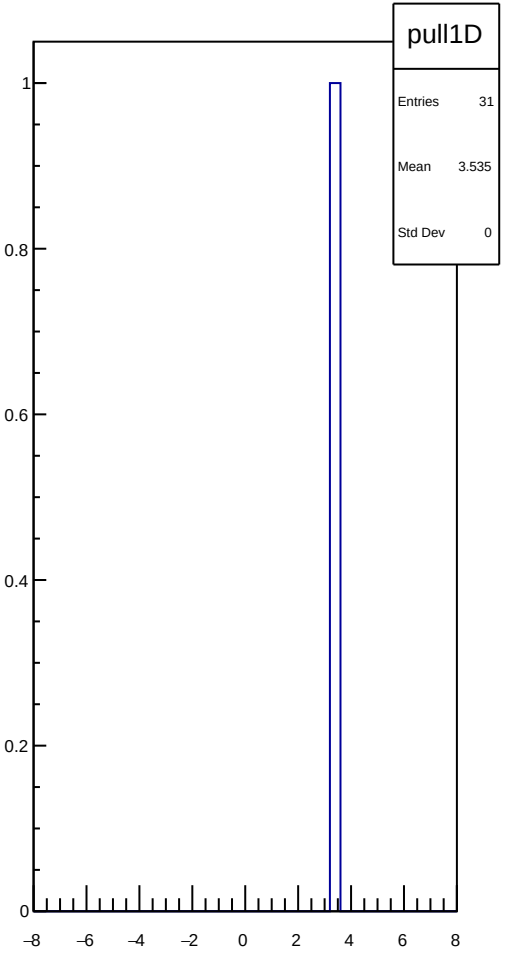

yield_bpm0l05X_rms vs run
χ² / ndf 4.761e+04 / 30
p0 0.006188 ± 8.36e–06
0.025
0.02
0.015
0.01
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

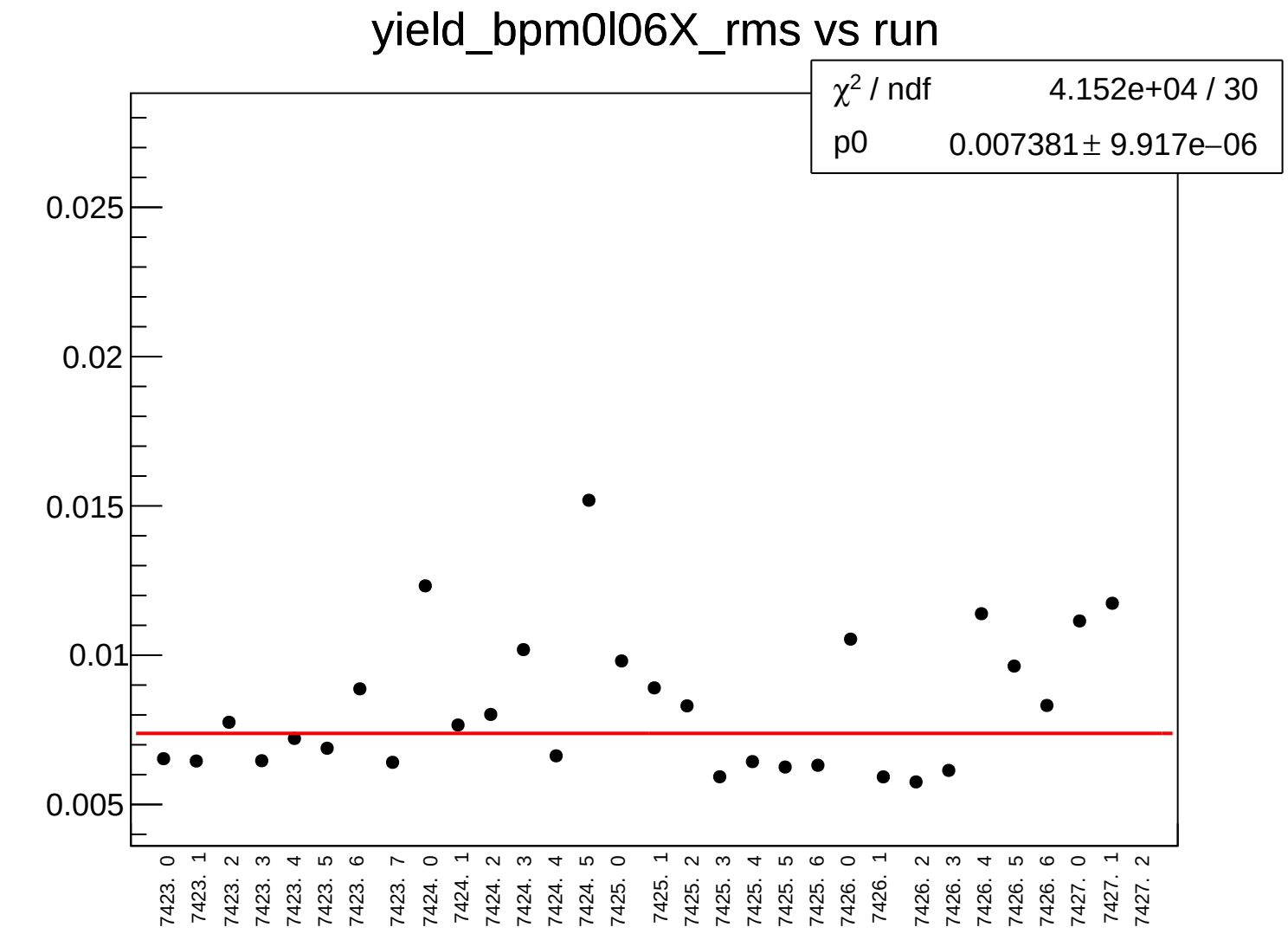

yield_bpm0l05Y_mean vs run
χ² / ndf 1.556e+07 / 30
p0 2.32 ± 1.15e−05
2.36
2.34
2.32
2.3
2.28
2.26
2.24
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −254.4
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

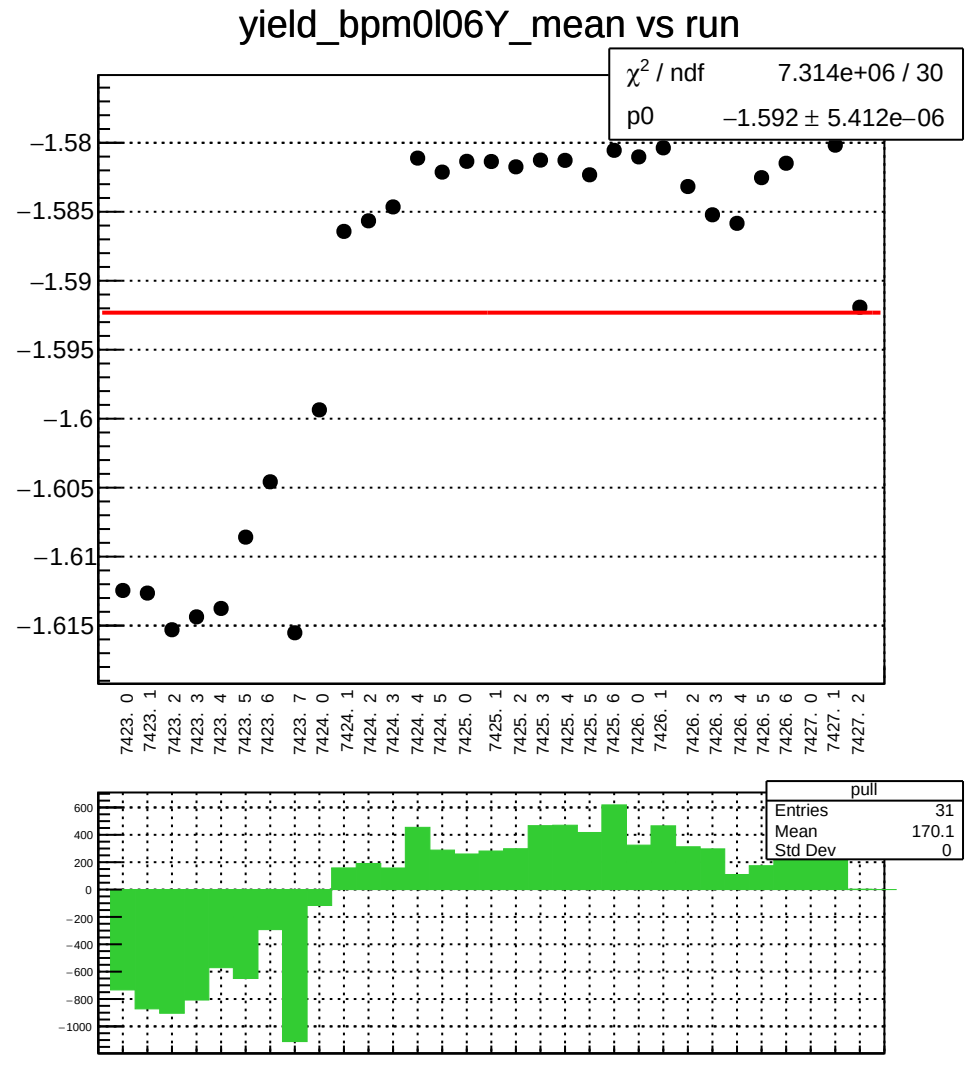

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

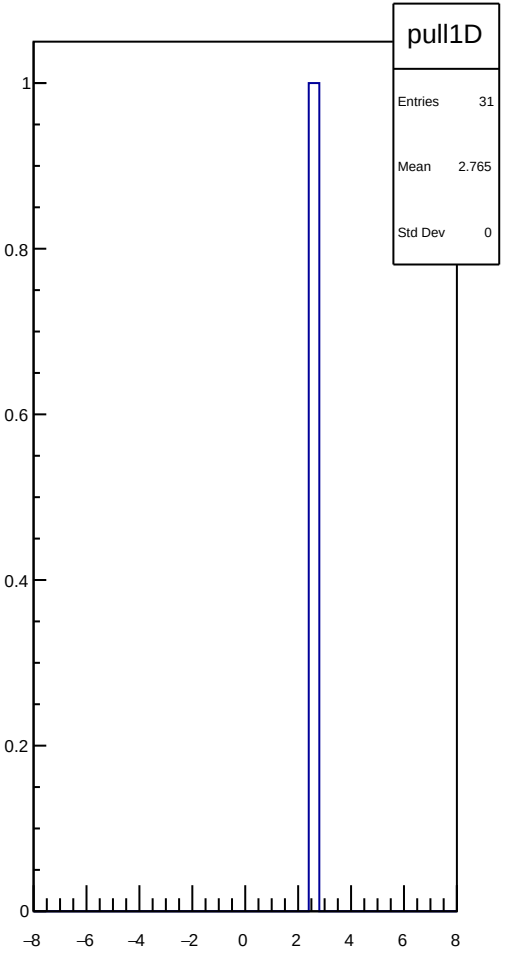

yield_bpm0l05Y_rms vs run
χ² / ndf 1.13e+05 / 30
p0 0.005646 ± 8.129e−06
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

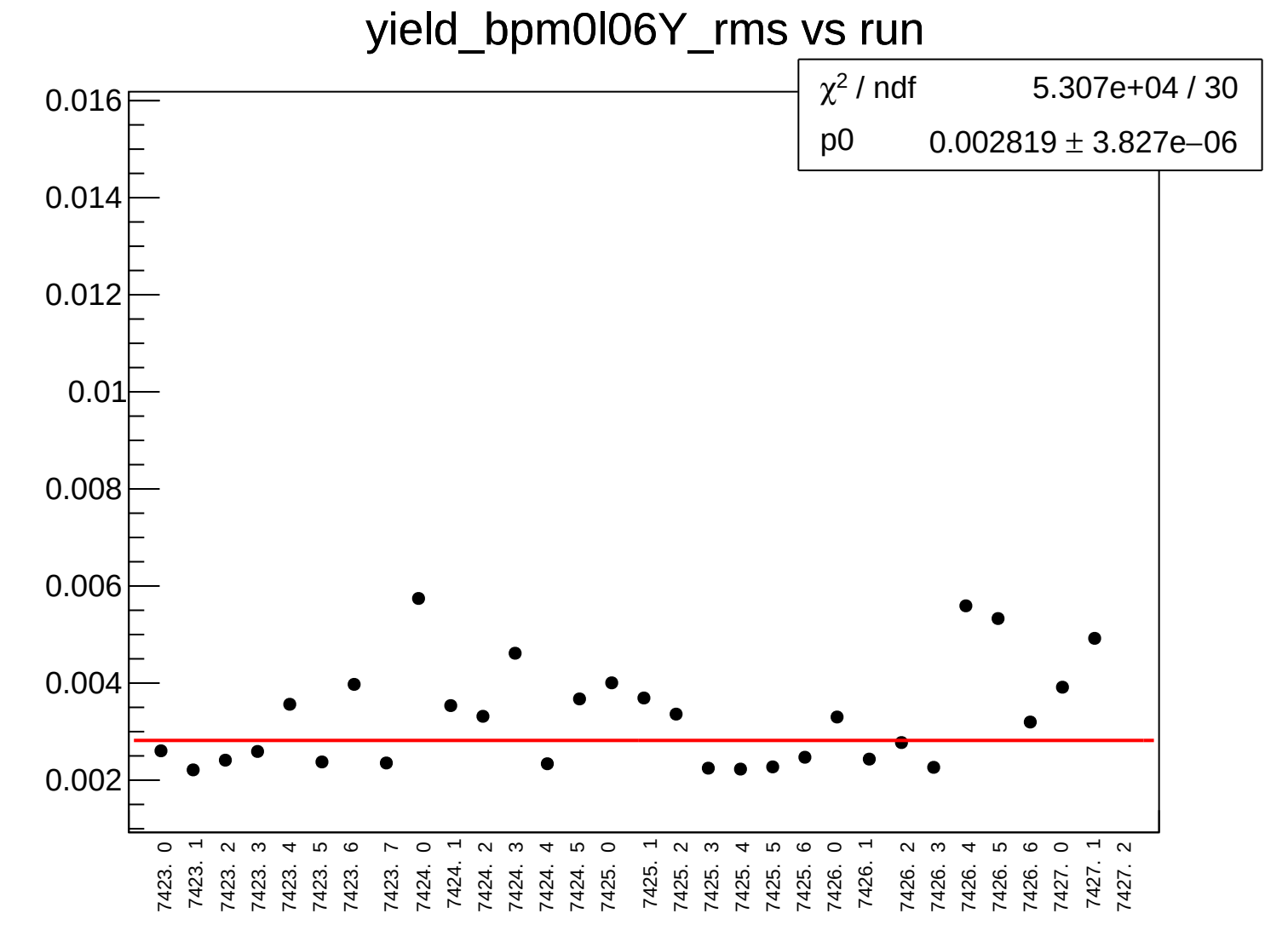

yield_bpm0l06X_mean vs run
χ² / ndf 1.056e+06 / 30
p0 2.464 ± 1.403e−05
2.5
2.49
2.48
2.47
2.46
2.45
2.44
2.43
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 58.1
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

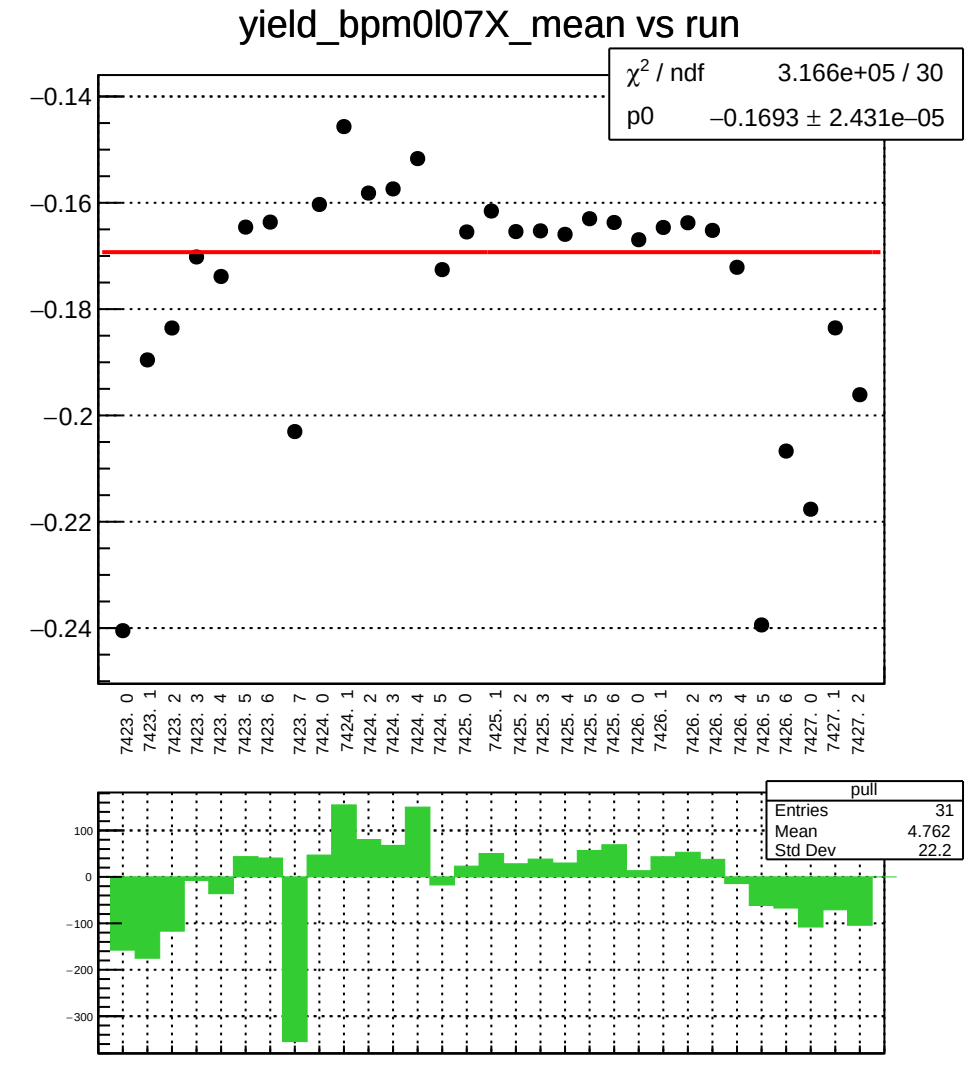

pull1D
Entries 31
Mean 3.535
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

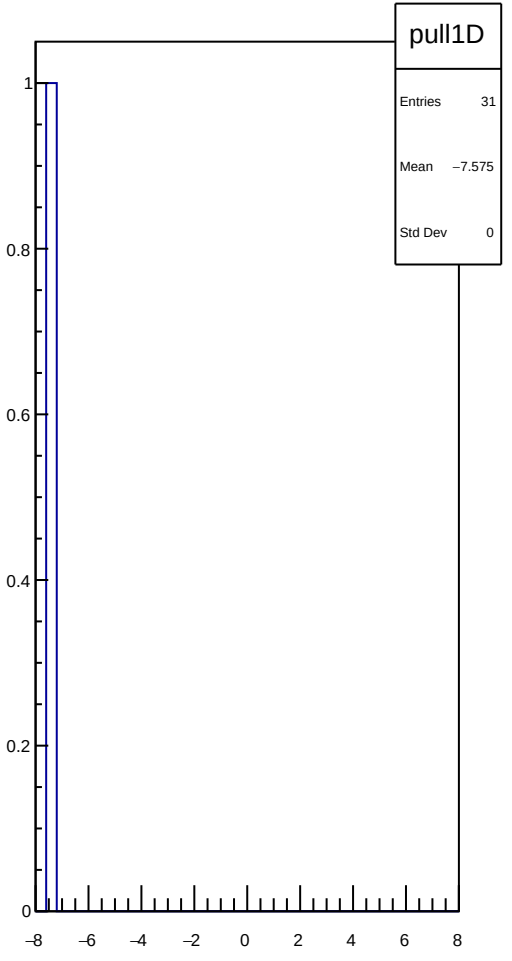

yield_bpm0l06X_rms vs run
χ² / ndf 4.152e+04 / 30
p0 0.007381 ± 9.917e−06
0.025
0.02
0.015
0.01
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

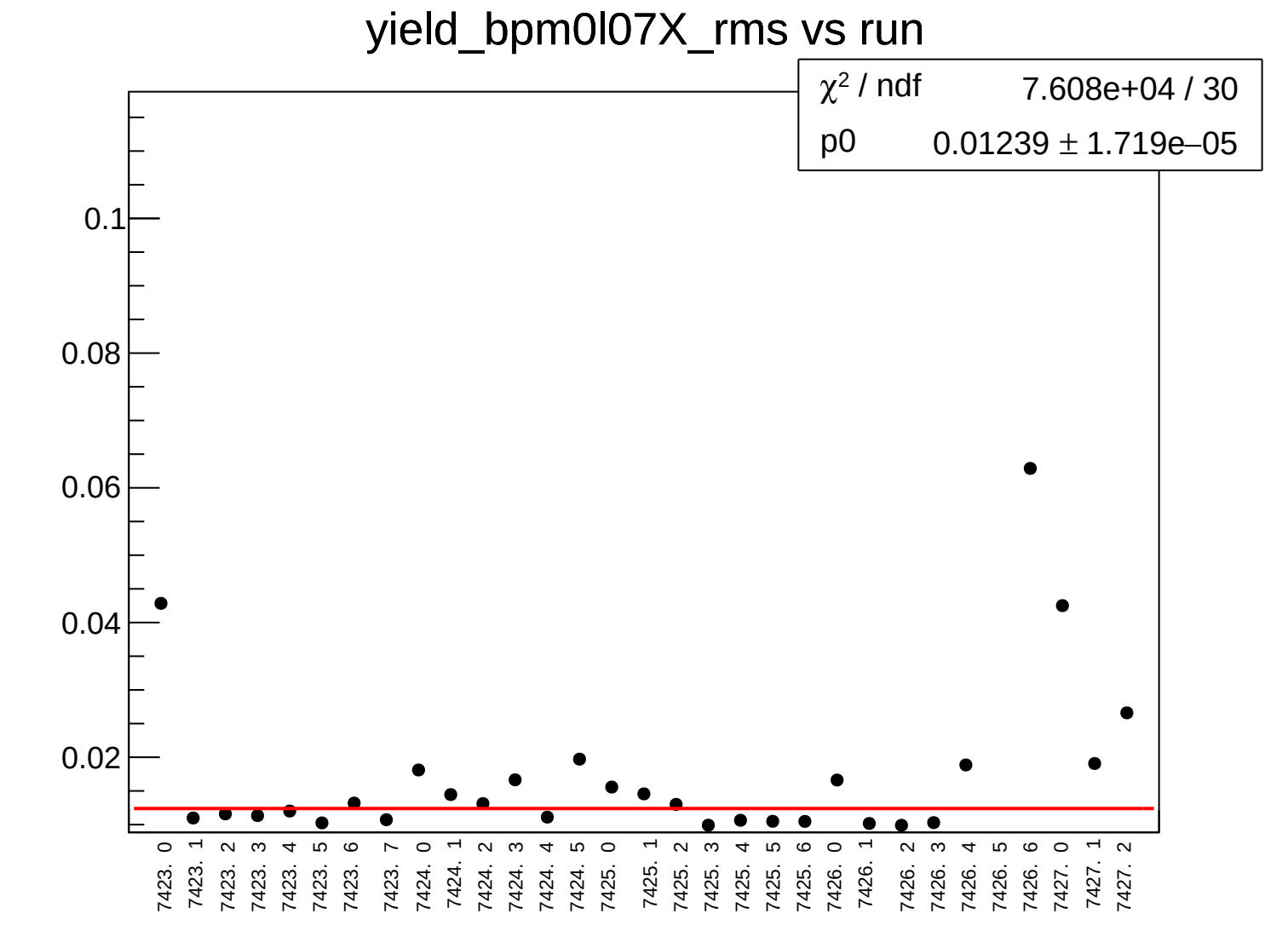

yield_bpm0l06Y_mean vs run
χ² / ndf 7.314e+06 / 30
p0 −1.592 ± 5.412e−06
−1.58
−1.585
−1.59
−1.595
−1.6
−1.605
−1.61
−1.615
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 170.1
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

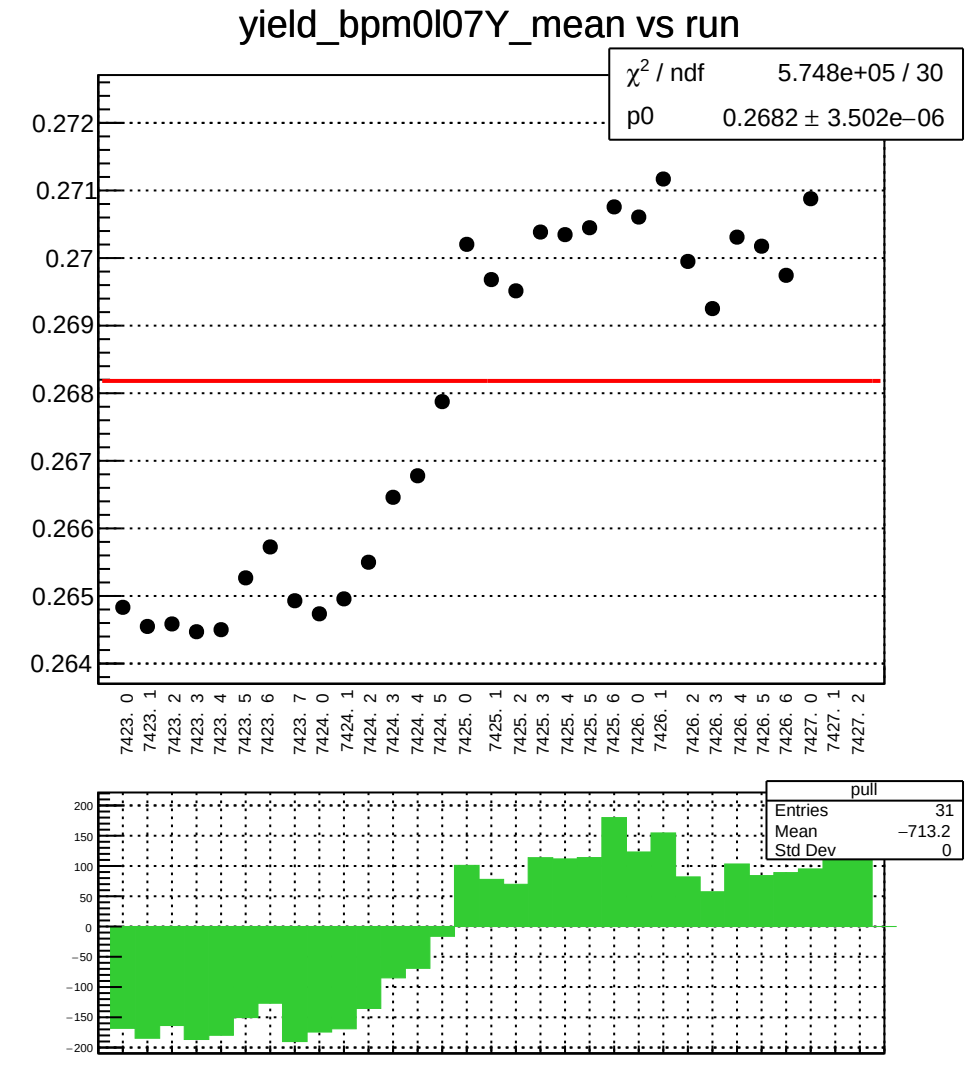

pull1D
Entries 31
Mean 2.765
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

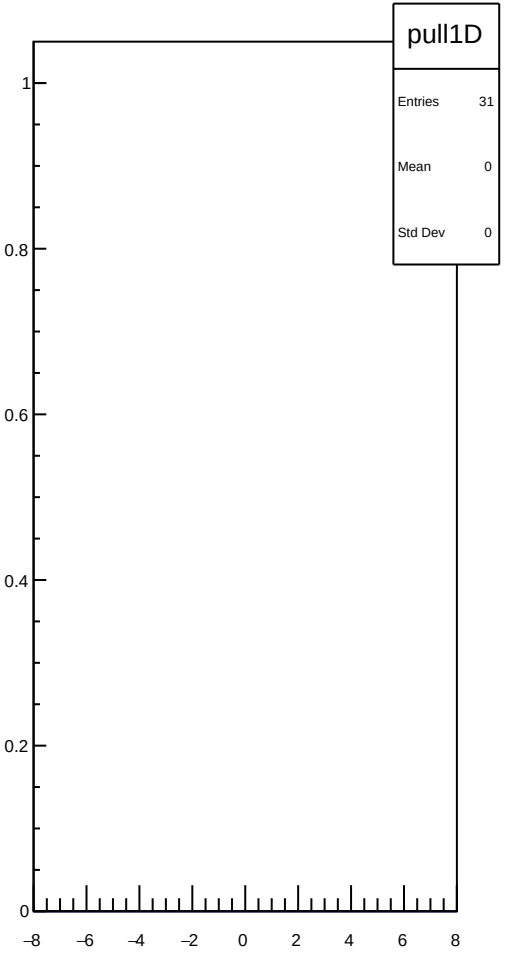

yield_bpm0l06Y_rms vs run
χ² / ndf 5.307e+04 / 30
p0 0.002819 ± 3.827e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

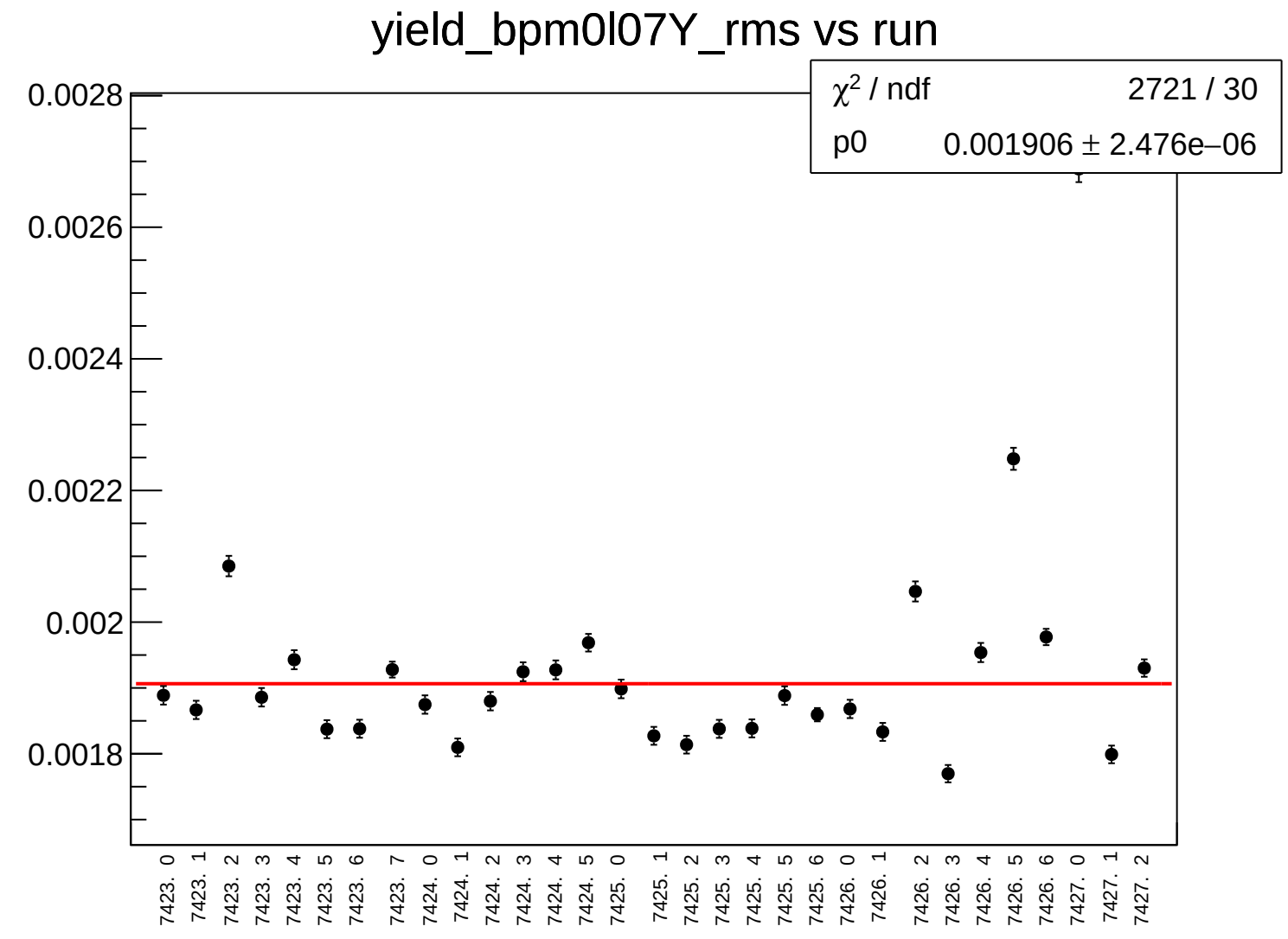

yield_bpm0l07X_mean vs run
χ² / ndf 3.166e+05 / 30
p0 −0.1693 ± 2.431e−05
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 4.762
Std Dev 22.2
100
0
−100
−200
−300

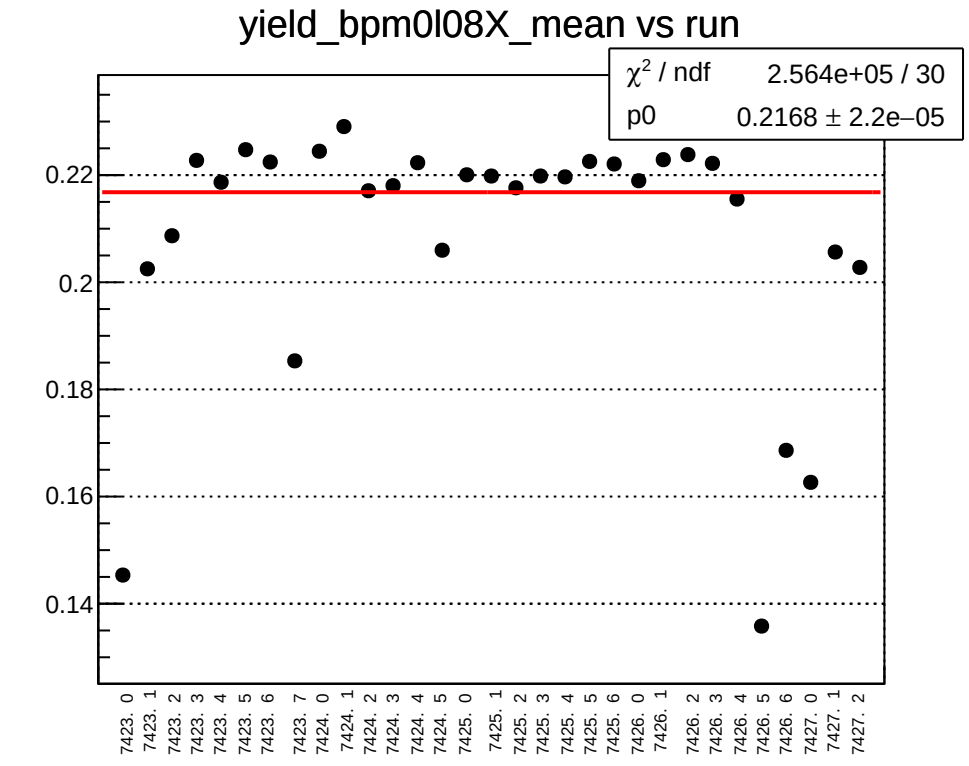

pull1D
Entries 31
Mean −7.575
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

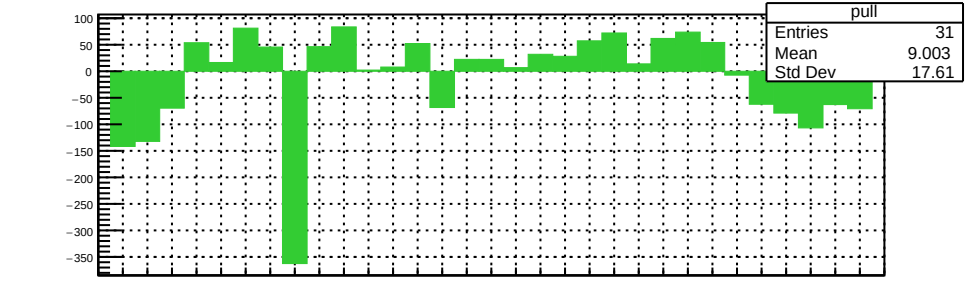

yield_bpm0l07X_rms vs run
χ² / ndf 7.608e+04 / 30
p0 0.01239 ± 1.719e–05
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

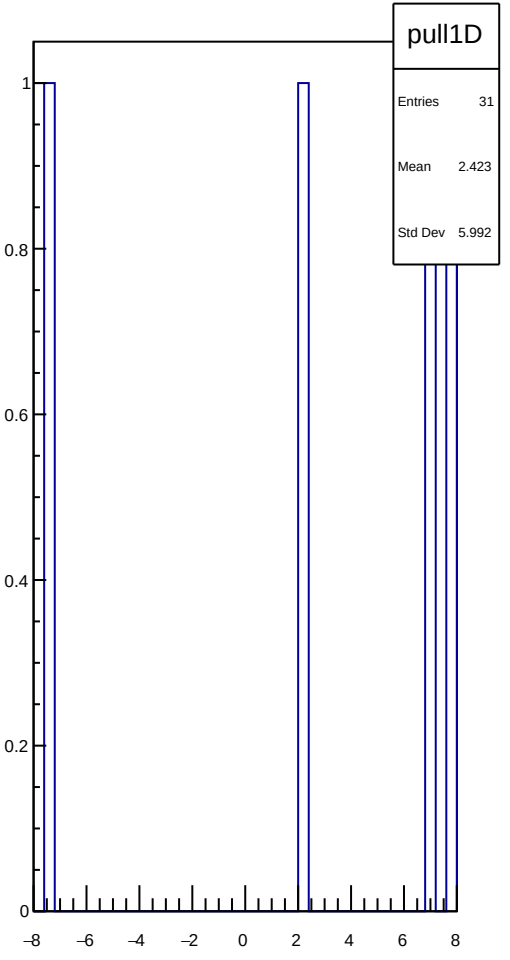

yield_bpm0l07Y_mean vs run
χ² / ndf 5.748e+05 / 30
p0 0.2682 ± 3.502e−06
0.272
0.271
0.27
0.269
0.268
0.267
0.266
0.265
0.264
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −713.2
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

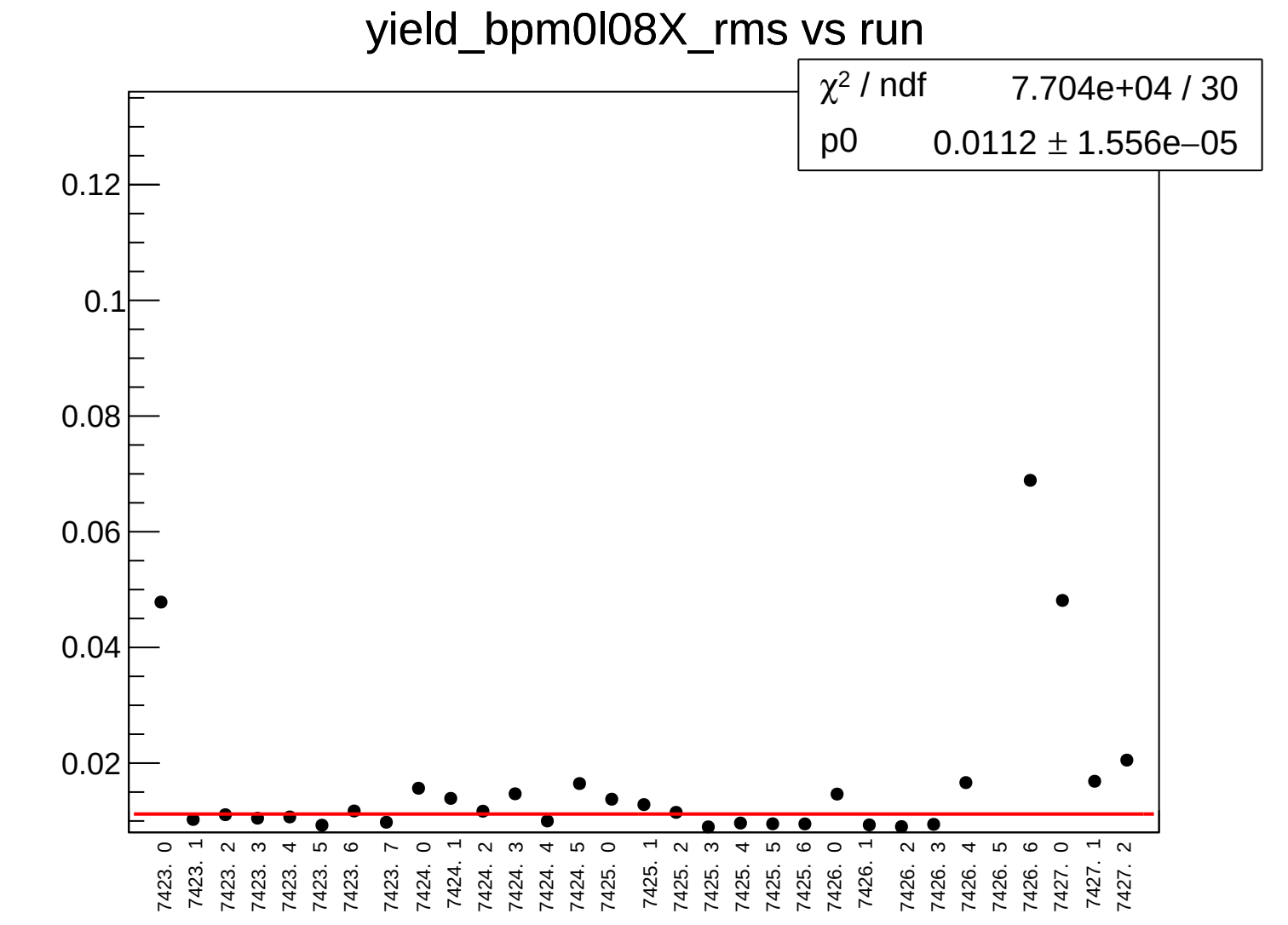

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

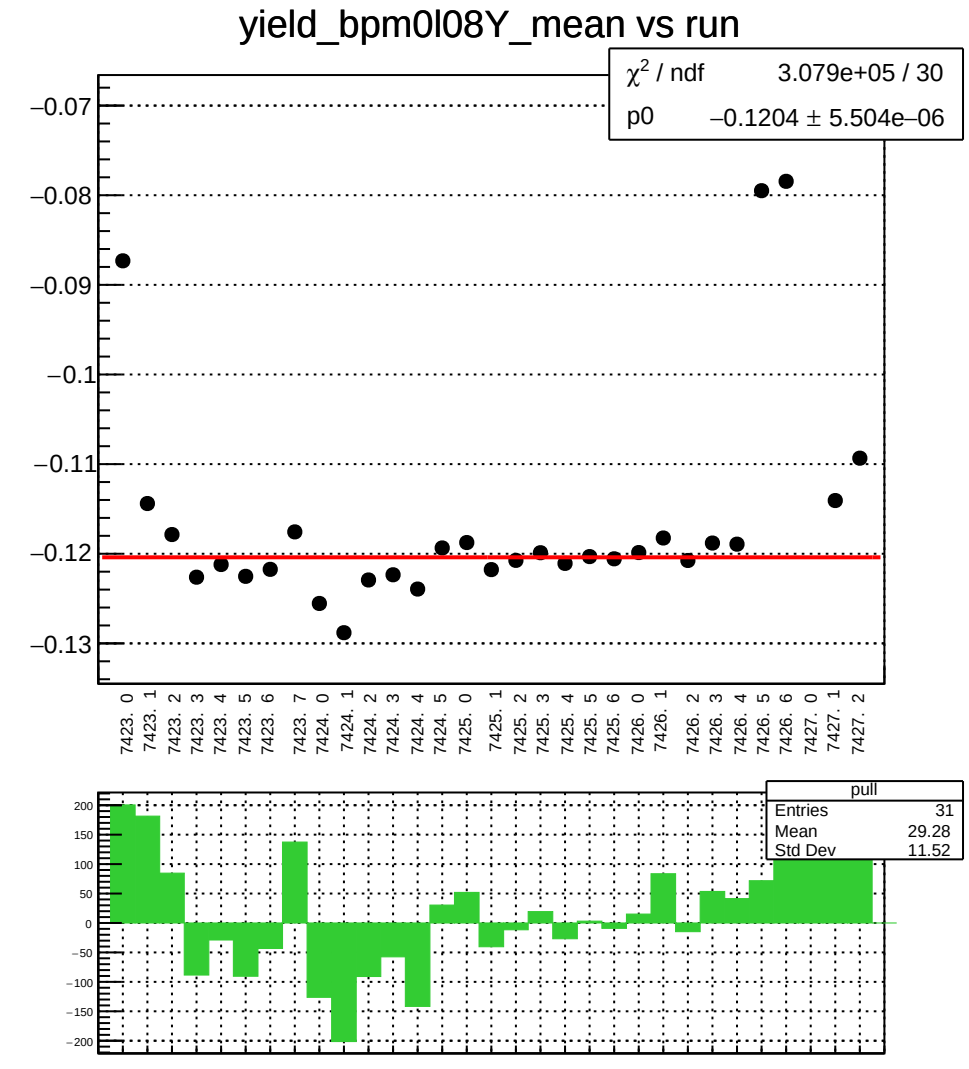

yield_bpm0l07Y_rms vs run
χ² / ndf 2721 / 30
p0 0.001906 ± 2.476e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

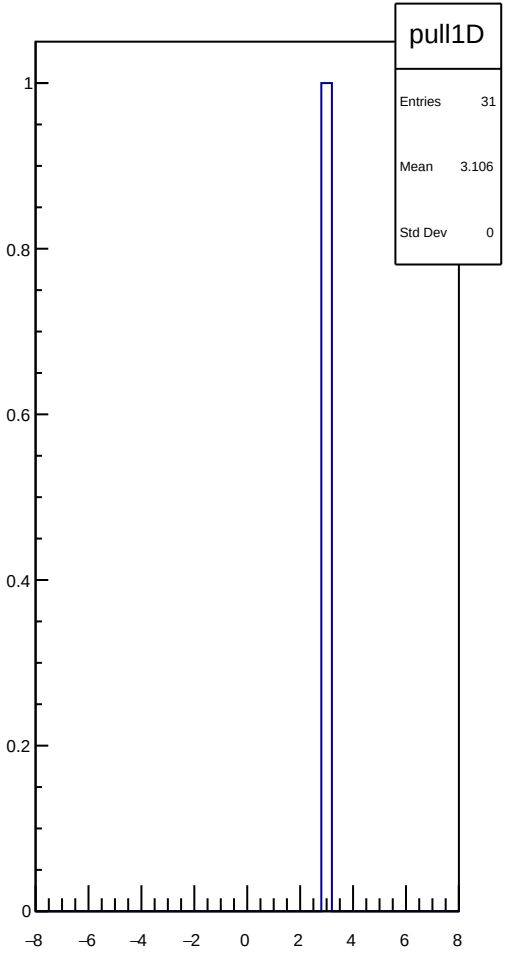

yield_bpm0l08X_mean vs run
χ² / ndf 2.564e+05 / 30
p0 0.2168 ± 2.2e−05
0.22
0.2
0.18
0.16
0.14
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

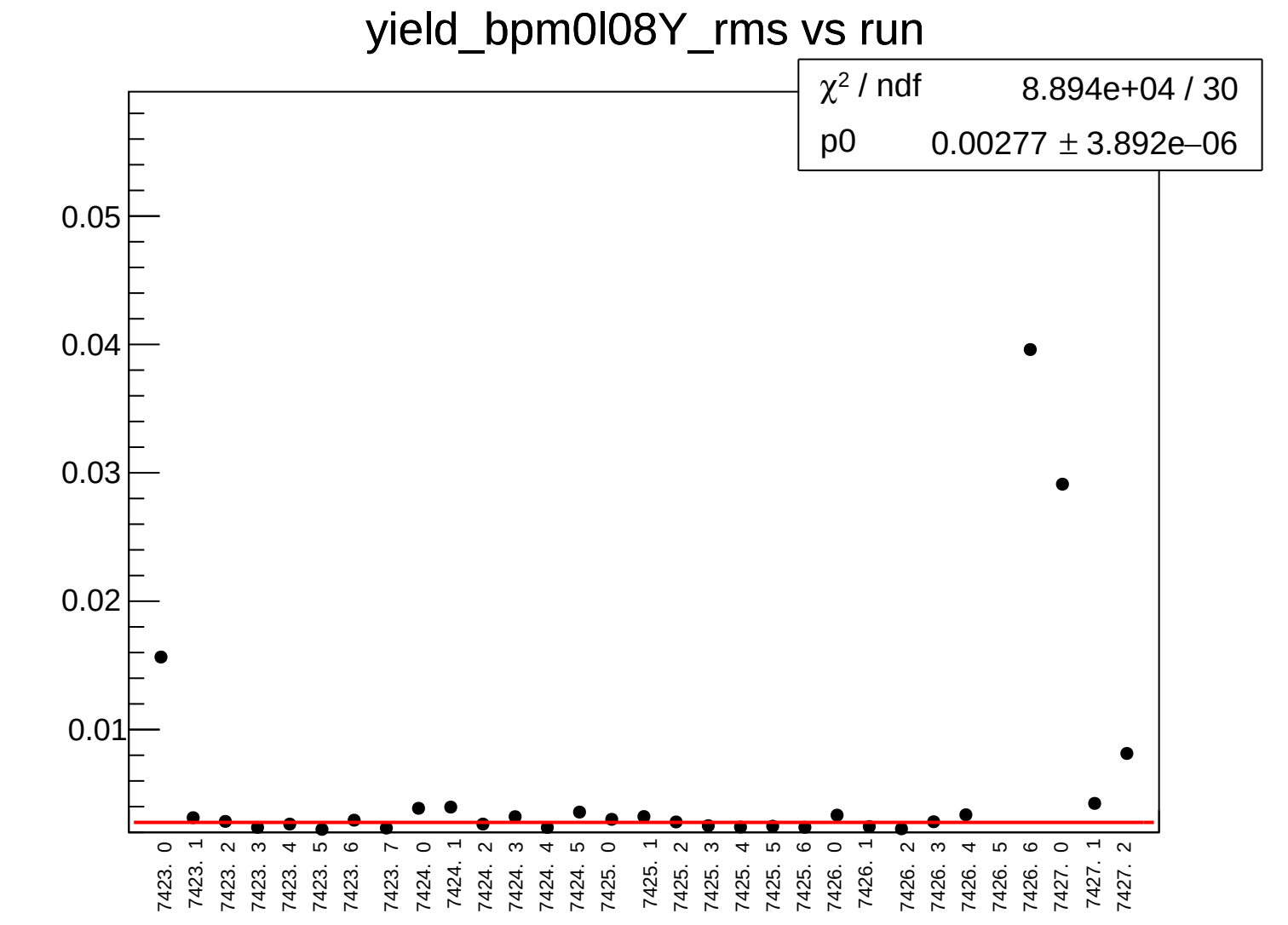

pull
Entries 31
Mean 9.003
Std Dev 17.61
100
50
0
−50
−100
−150
−200
−250
−300
−350

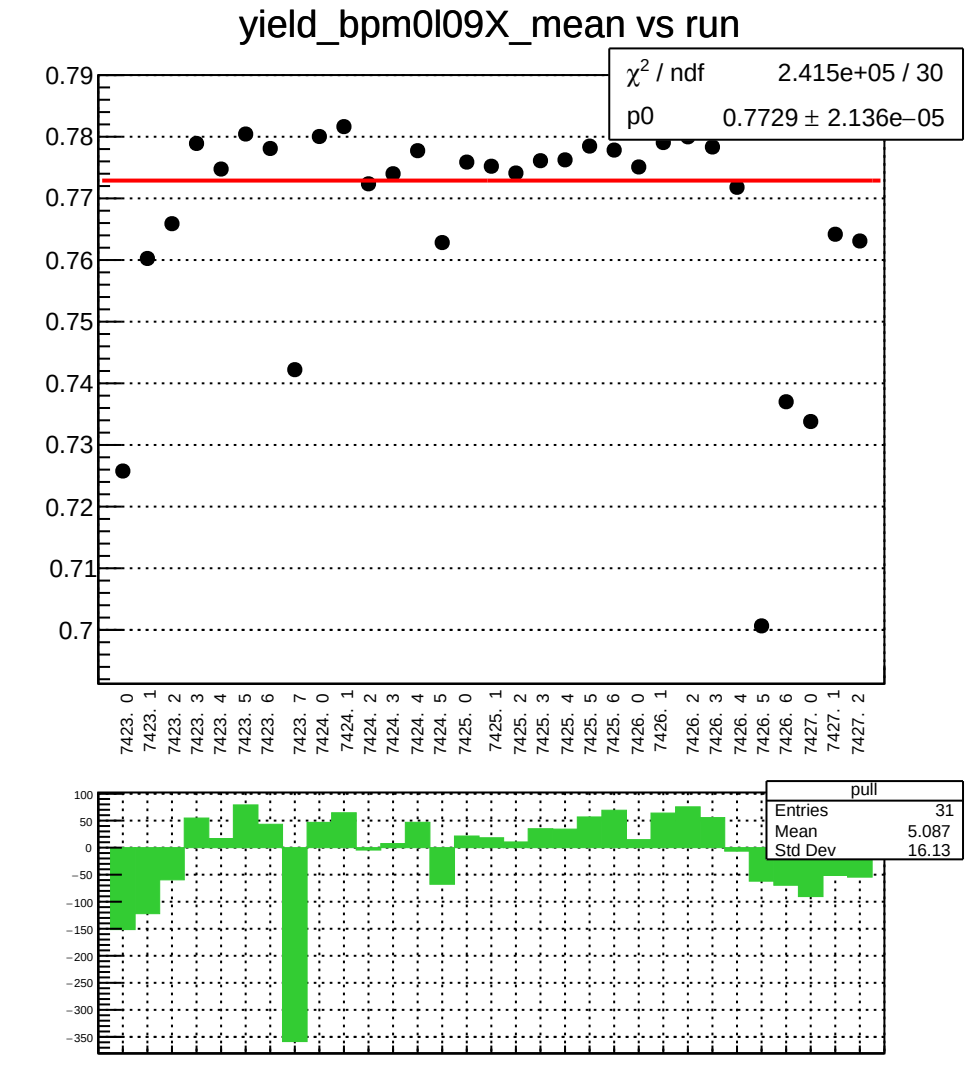

pull1D
Entries 31
Mean 2.423
Std Dev 5.992
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

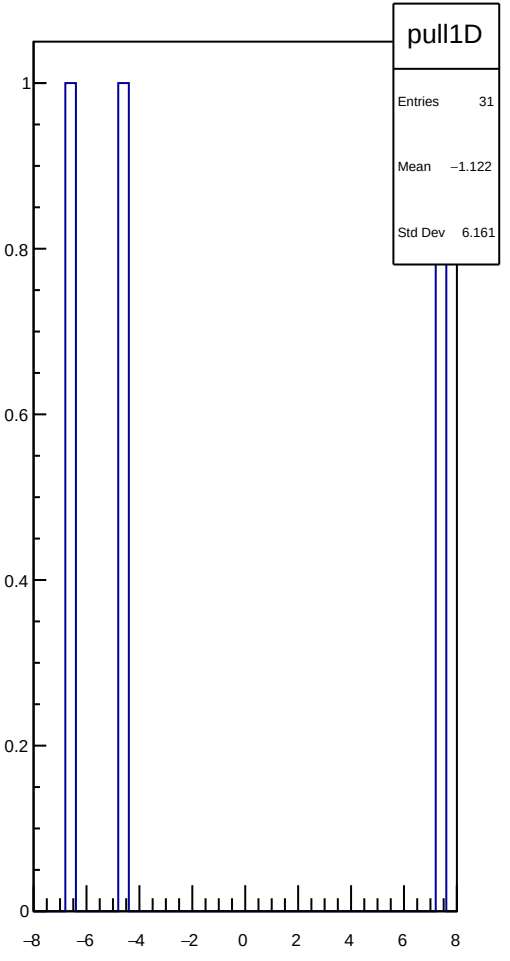

yield_bpm0l08X_rms vs run
χ² / ndf 7.704e+04 / 30
p0 0.0112 ± 1.556e−05
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

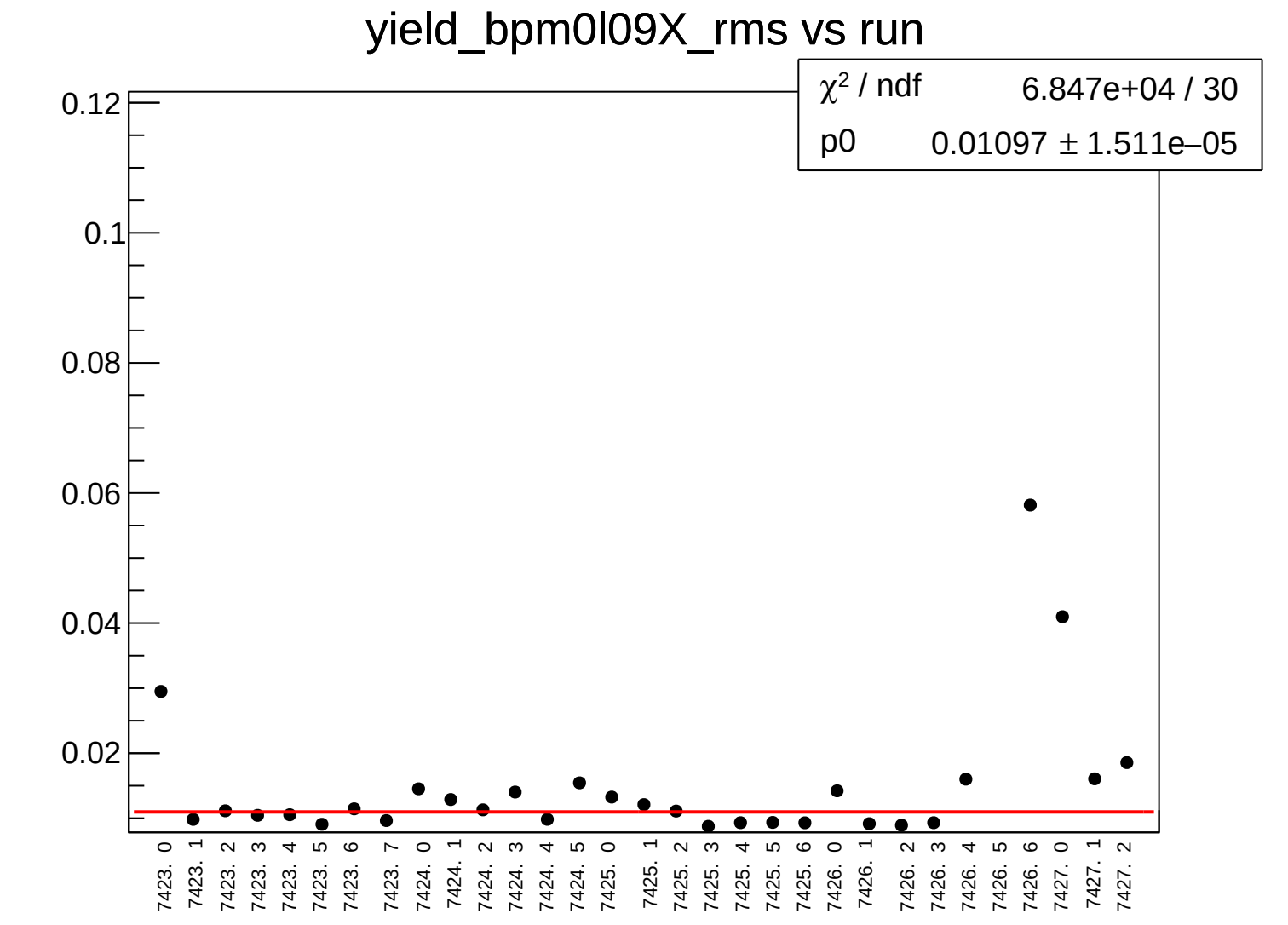

yield_bpm0l08Y_mean vs run
χ² / ndf 3.079e+05 / 30
p0 −0.1204 ± 5.504e−06
−0.07
−0.08
−0.09
−0.1
−0.11
−0.12
−0.13
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 29.28
Std Dev 11.52
200
150
100
50
0
−50
−100
−150
−200

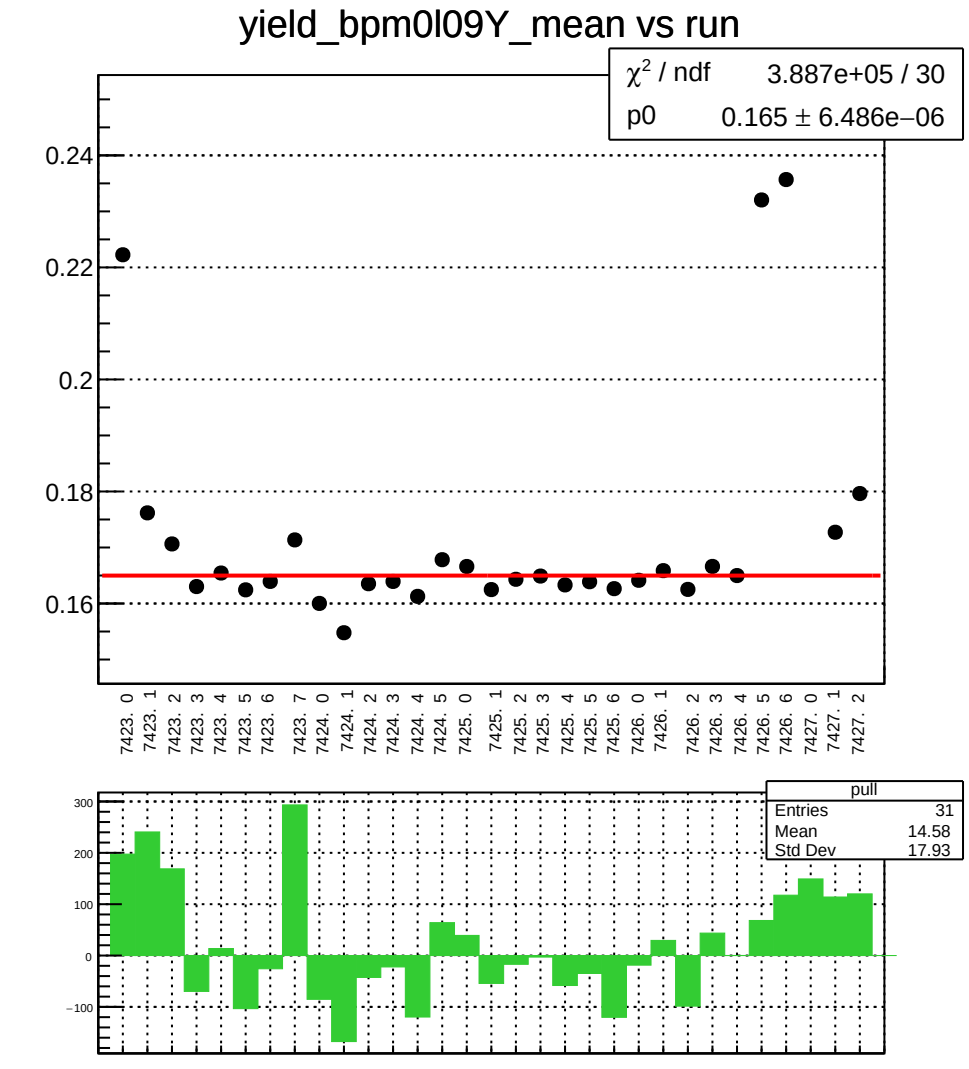

pull1D
Entries 31
Mean 3.106
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

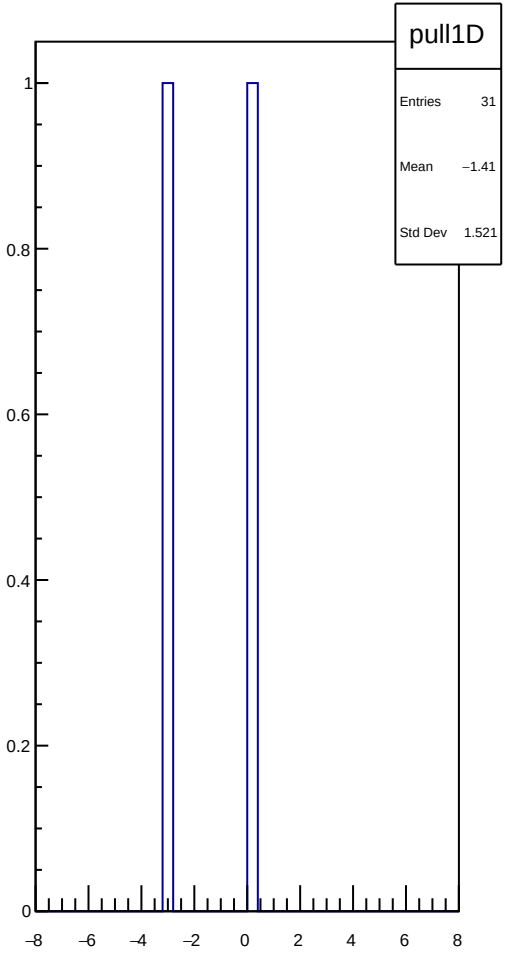

yield_bpm0l08Y_rms vs run
χ² / ndf 8.894e+04 / 30
p0 0.00277 ± 3.892e–06
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

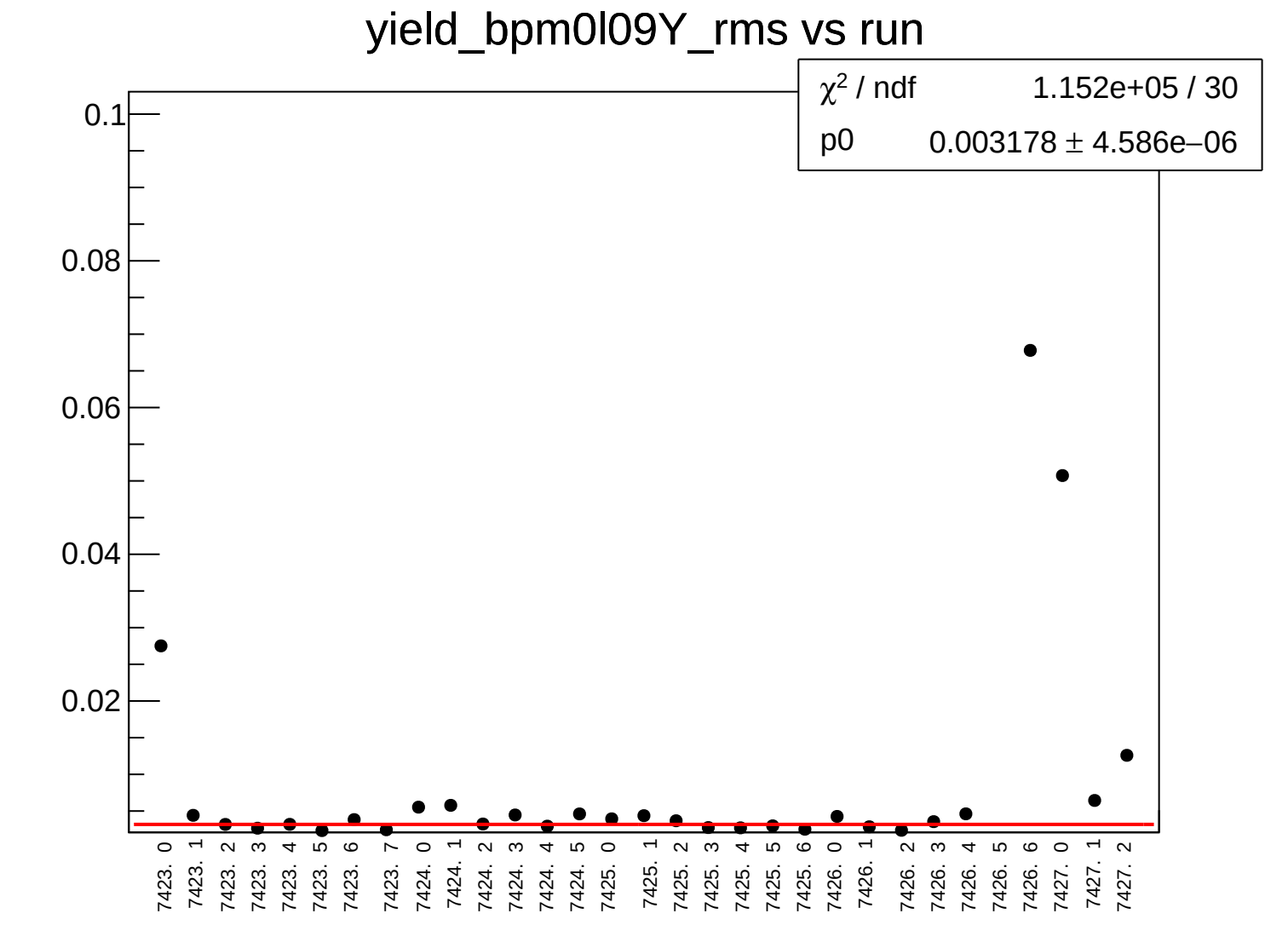

yield_bpm0l09X_mean vs run
χ² / ndf 2.415e+05 / 30
p0 0.7729 ± 2.136e−05
0.79
0.78
0.77
0.76
0.75
0.74
0.73
0.72
0.71
0.7
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 5.087
Std Dev 16.13
100
50
0
−50
−100
−150
−200
−250
−300
−350

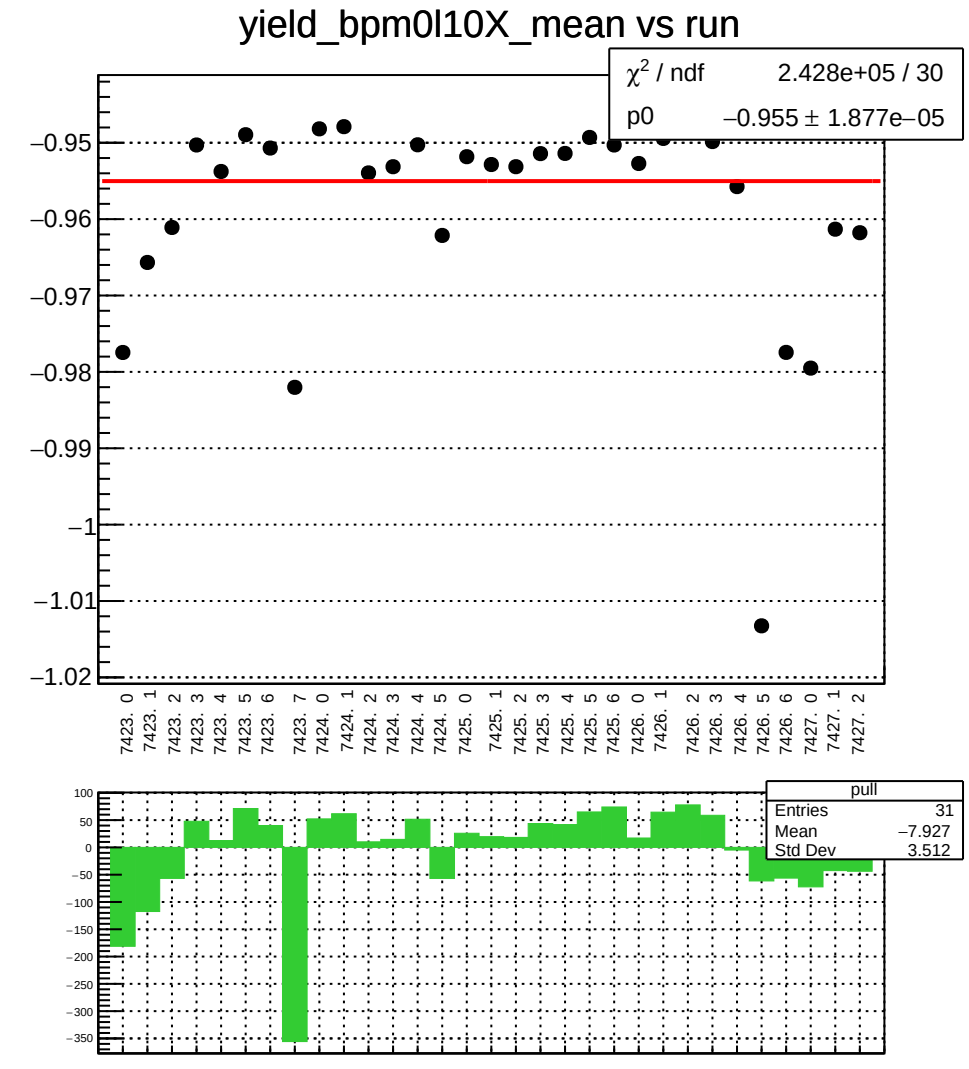

pull1D
Entries 31
Mean −1.122
Std Dev 6.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

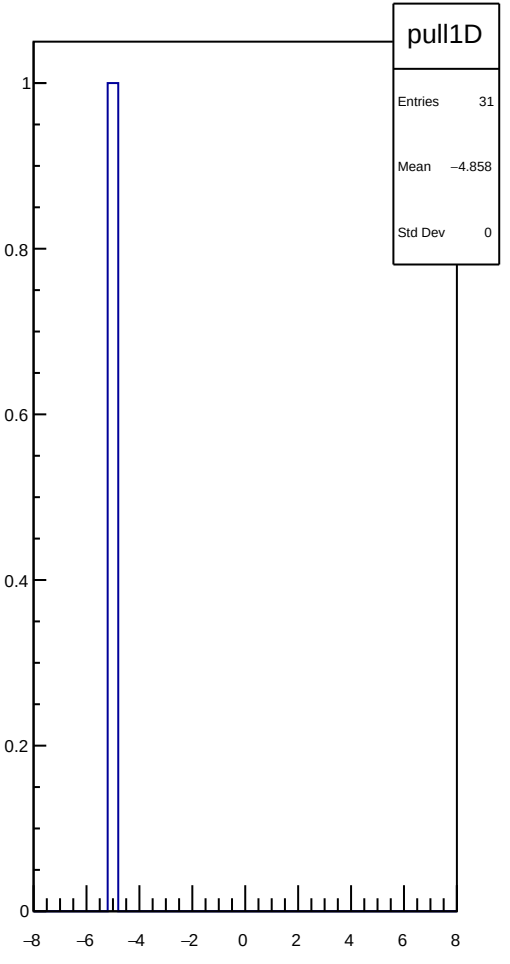

yield_bpm0l09X_rms vs run
χ² / ndf 6.847e+04 / 30
p0 0.01097 ± 1.511e−05
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

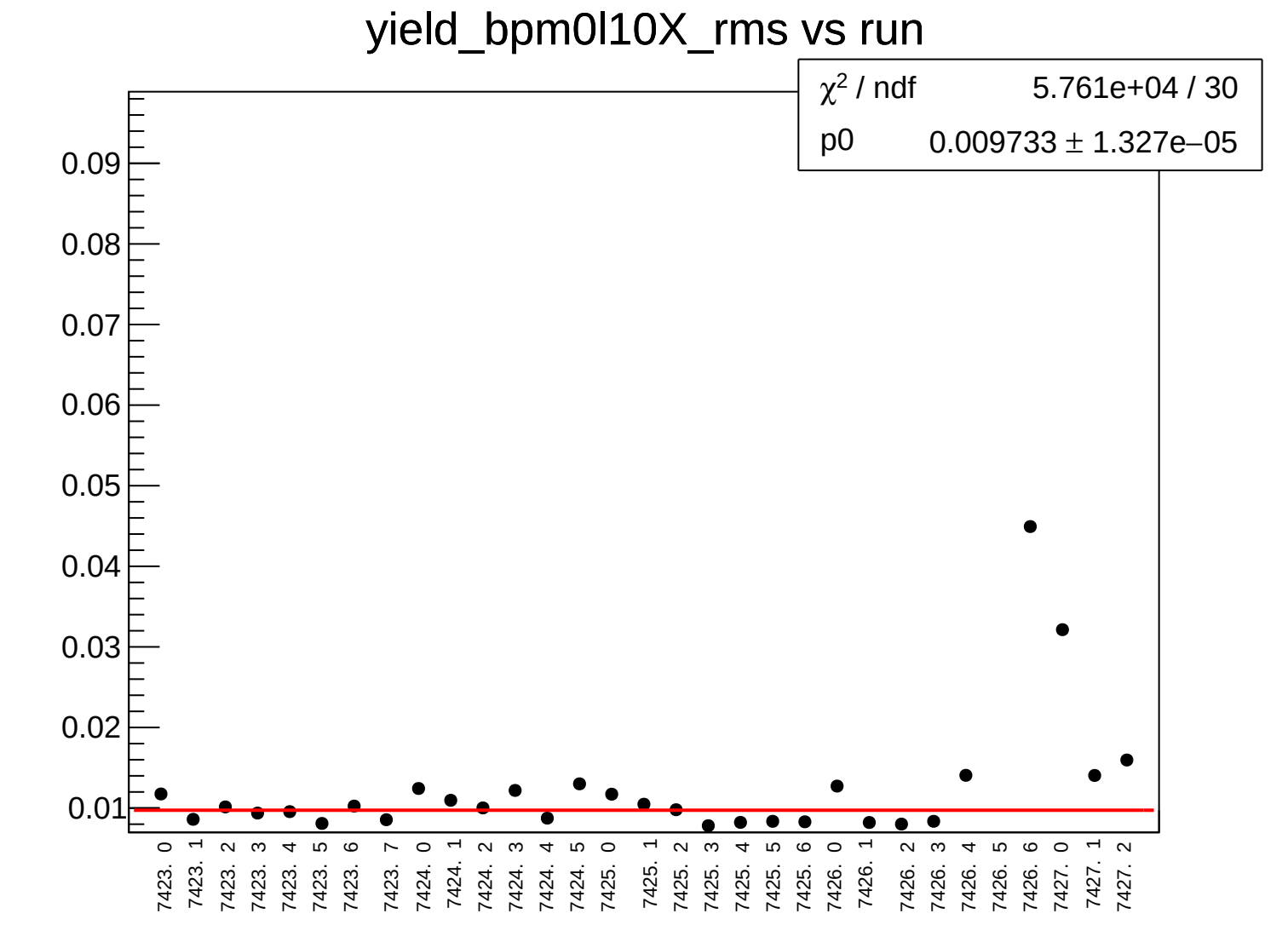

yield_bpm0l09Y_mean vs run
χ² / ndf 3.887e+05 / 30
p0 0.165 ± 6.486e−06
0.24
0.22
0.2
0.18
0.16
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.58
Std Dev 17.93
300
200
100
0
−100

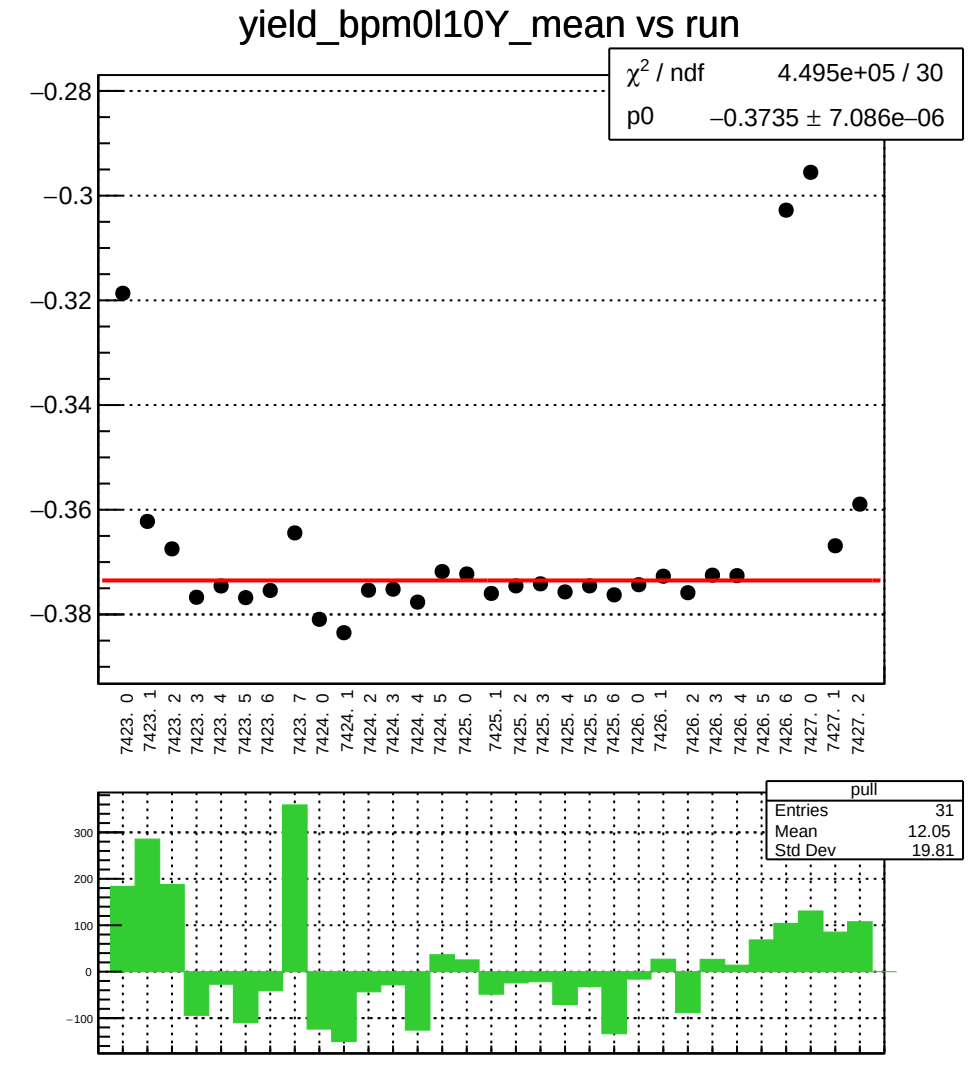

pull1D
Entries 31
Mean −1.41
Std Dev 1.521
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

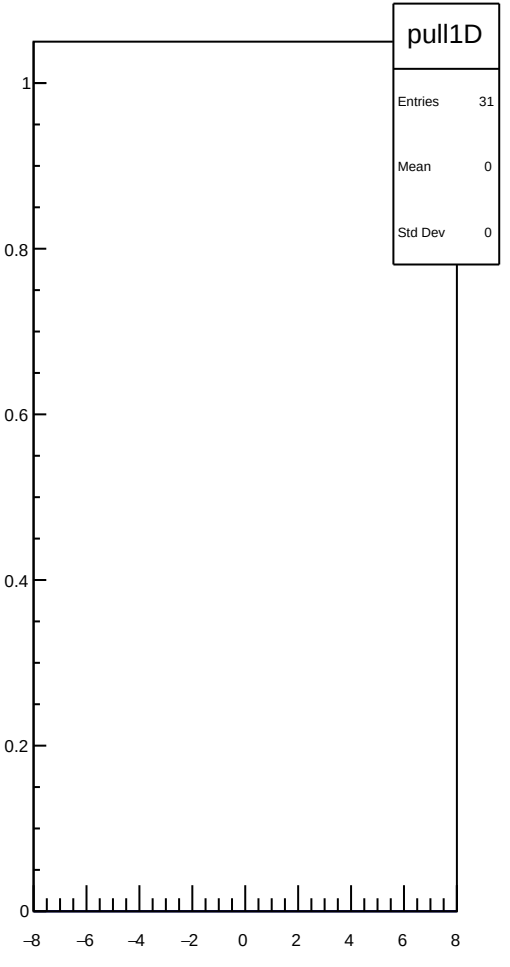

yield_bpm0l09Y_rms vs run
χ² / ndf 1.152e+05 / 30
p0 0.003178 ± 4.586e−06
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

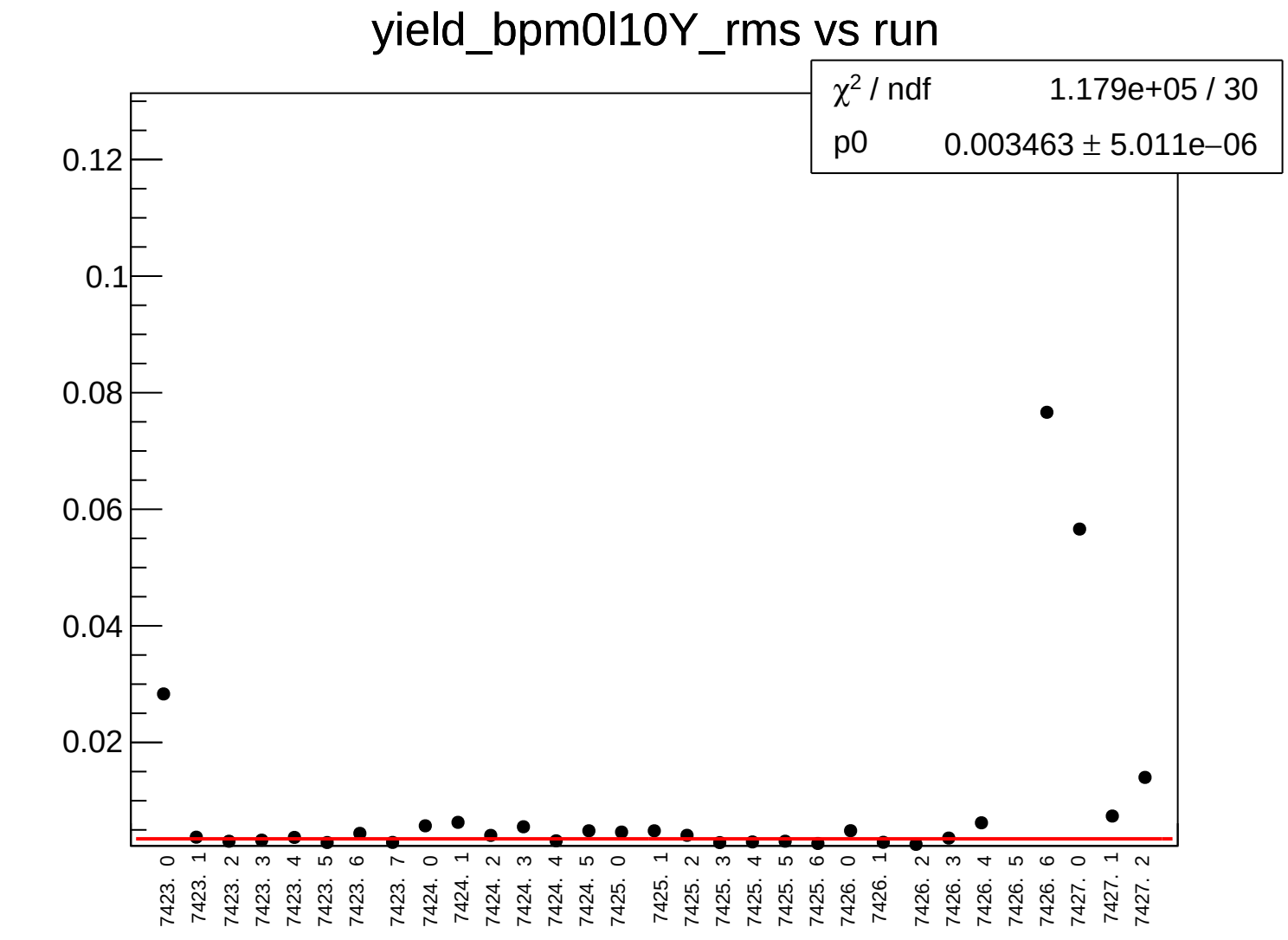

yield_bpm0l10X_mean vs run
χ² / ndf 2.428e+05 / 30
p0 −0.955 ± 1.877e−05
−0.95
−0.96
−0.97
−0.98
−0.99
−1
−1.01
−1.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −7.927
Std Dev 3.512
100
50
0
−50
−100
−150
−200
−250
−300
−350

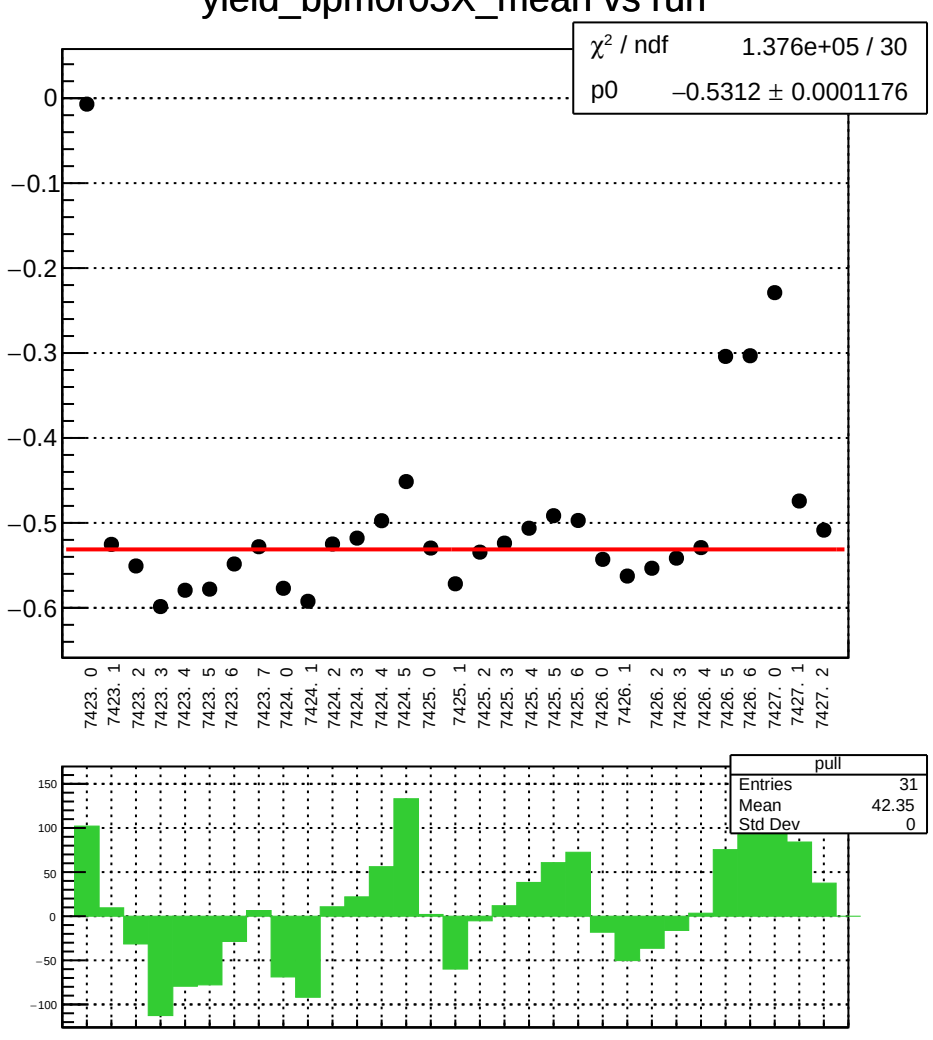

pull1D
Entries 31
Mean −4.858
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

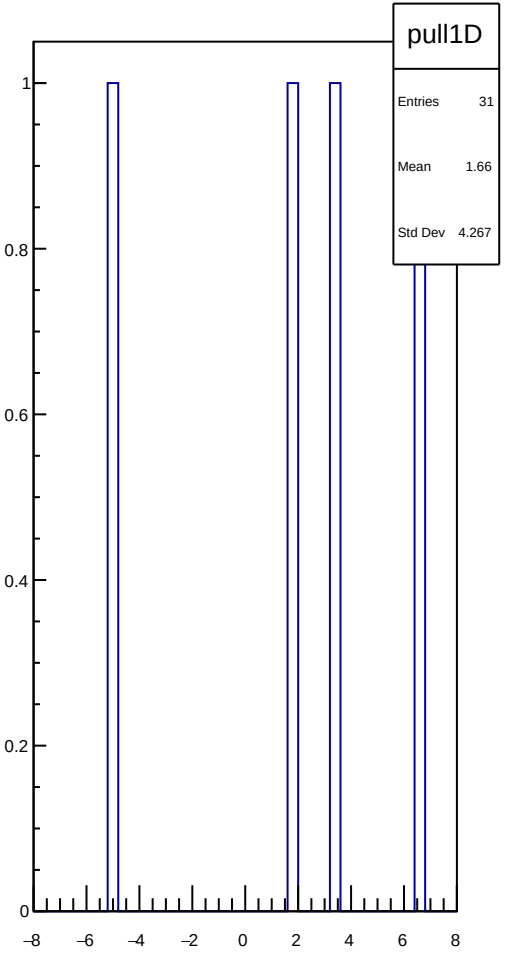

yield_bpm0l10X_rms vs run
χ^2 / ndf 5.761e+04 / 30
p0 0.009733 ± 1.327e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

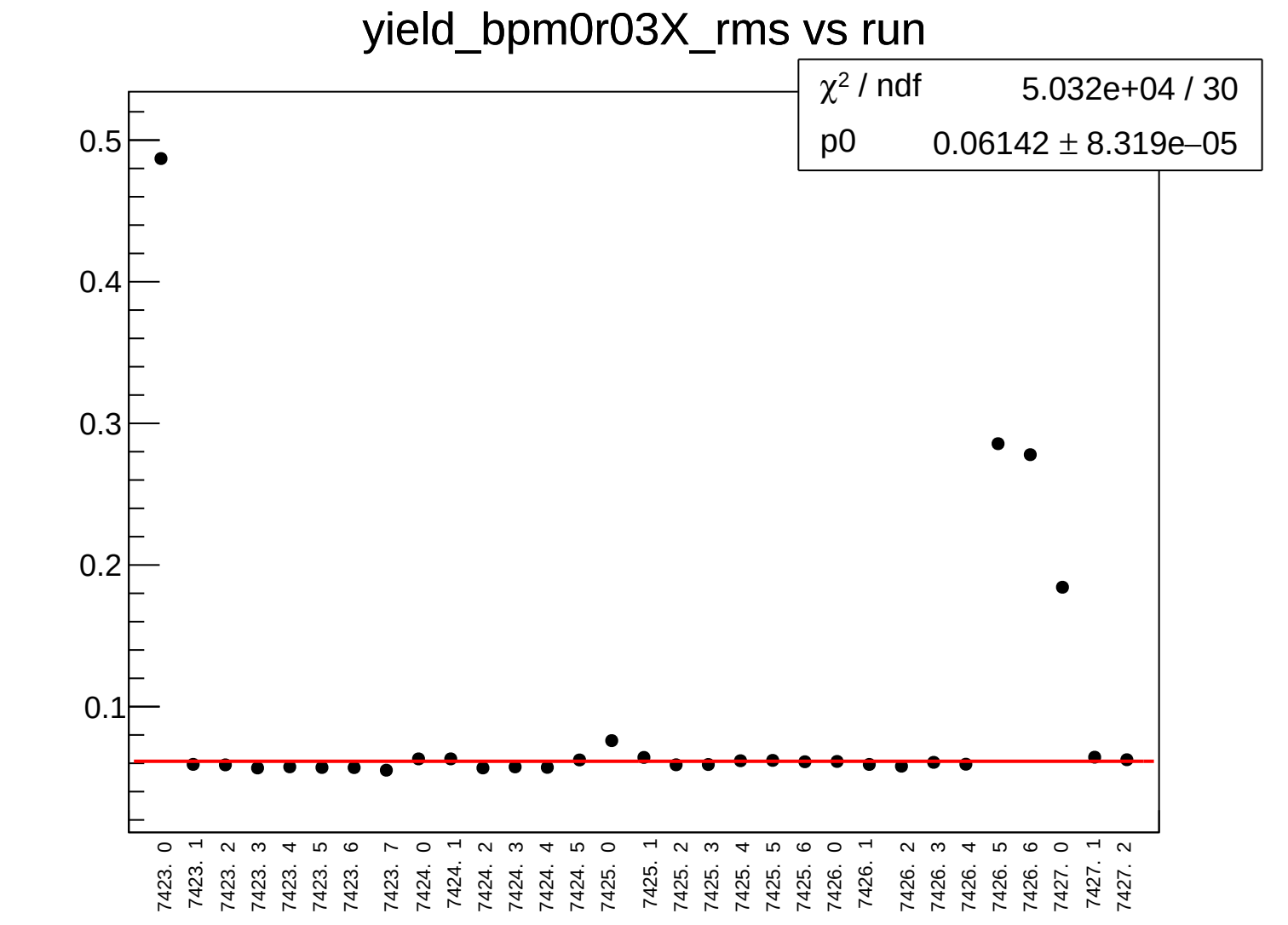

yield_bpm0l10Y_mean vs run
χ² / ndf 4.495e+05 / 30
p0 −0.3735 ± 7.086e−06
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 12.05
Std Dev 19.81
300
200
100
0
−100

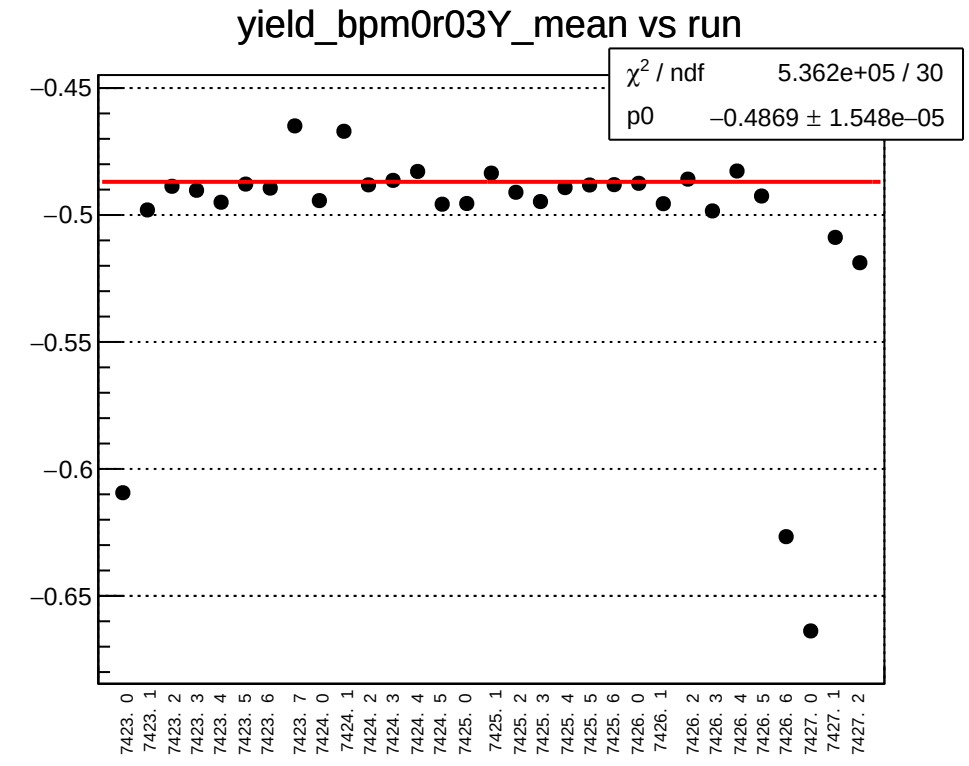

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

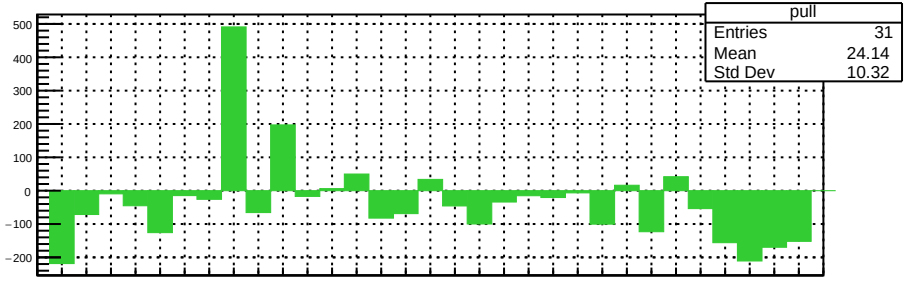

yield_bpm0l10Y_rms vs run
χ² / ndf 1.179e+05 / 30
p0 0.003463 ± 5.011e−06
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

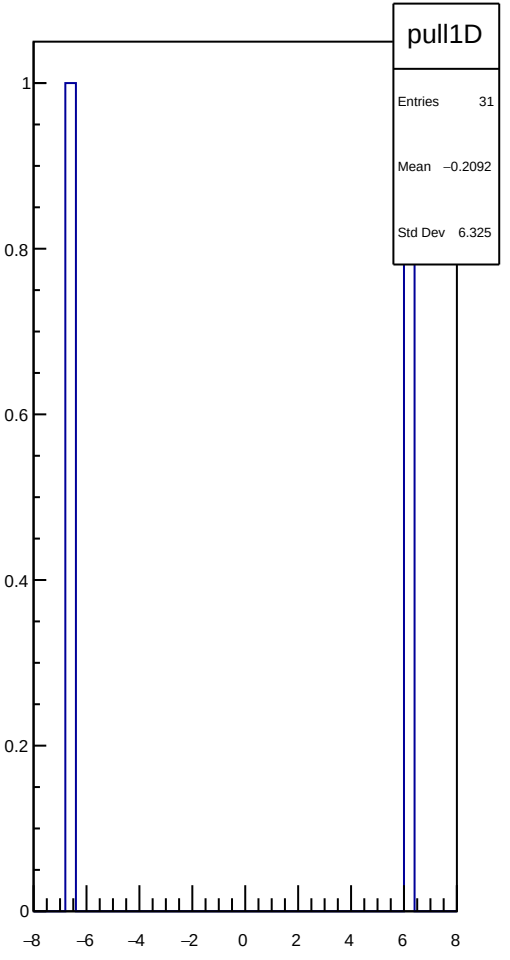

yield_bpm0r03X_mean vs run
χ² / ndf 1.376e+05 / 30
p0 −0.5312 ± 0.0001176
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 42.35
Std Dev 0
150
100
50
0
−50
−100

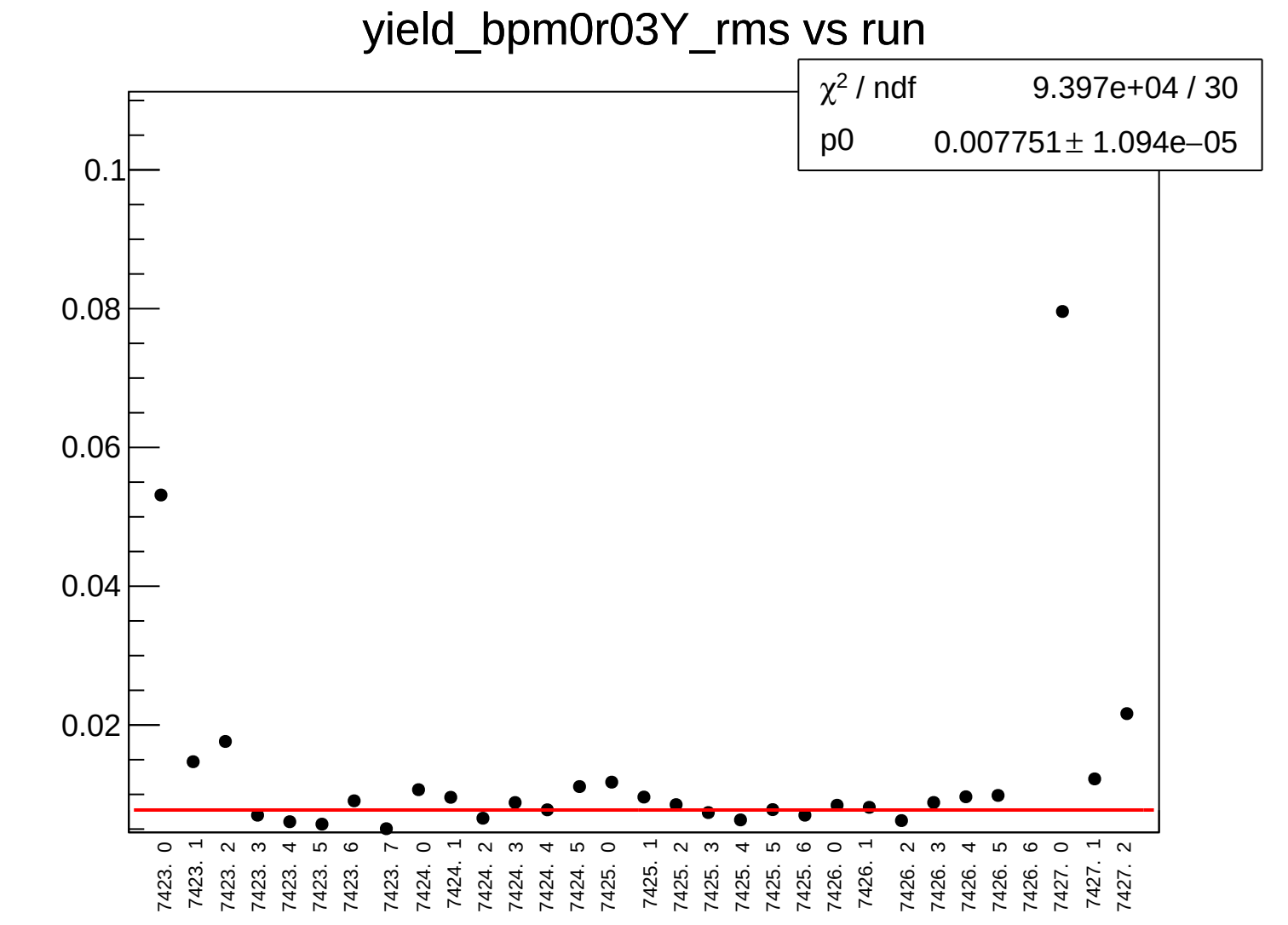

pull1D
Entries 31
Mean 1.66
Std Dev 4.267
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

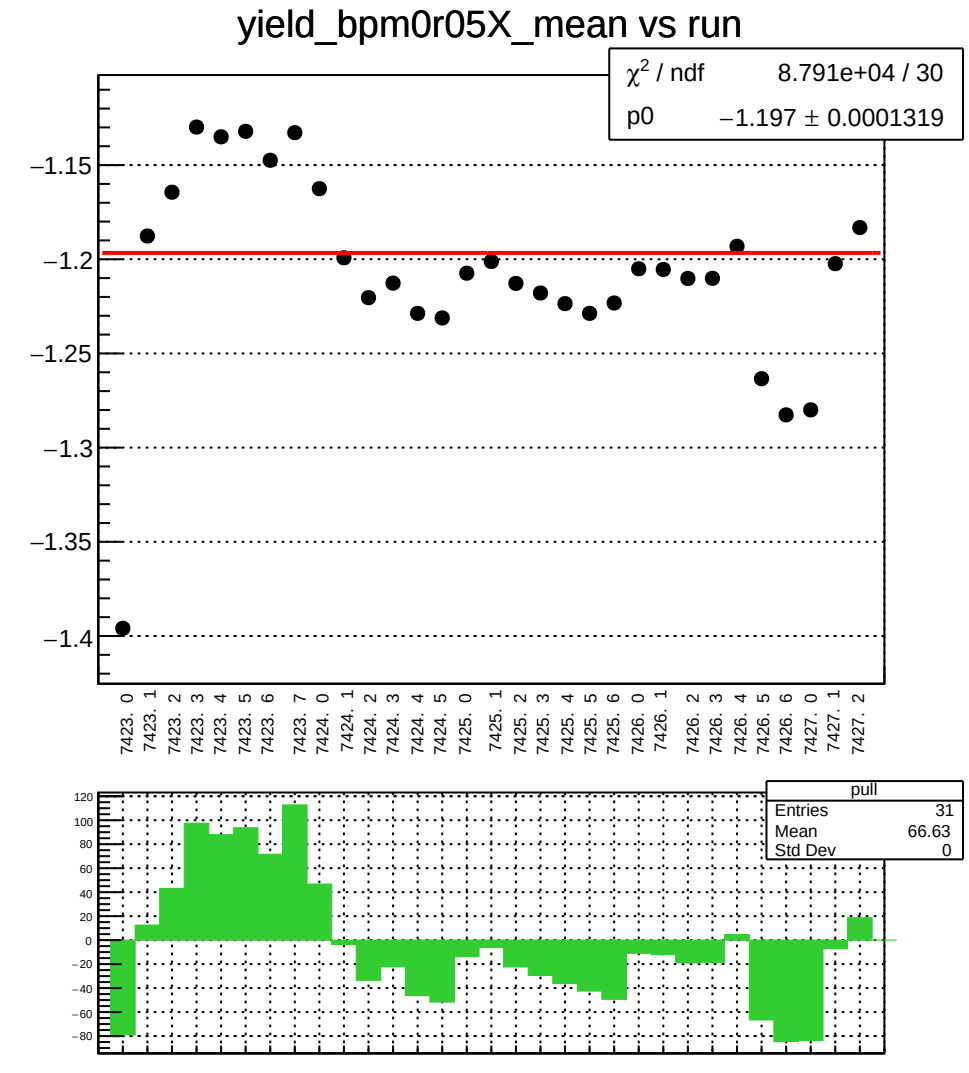

yield_bpm0r03X_rms vs run
χ² / ndf 5.032e+04 / 30
p0 0.06142 ± 8.319e–05
0.5
0.4
0.3
0.2
0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

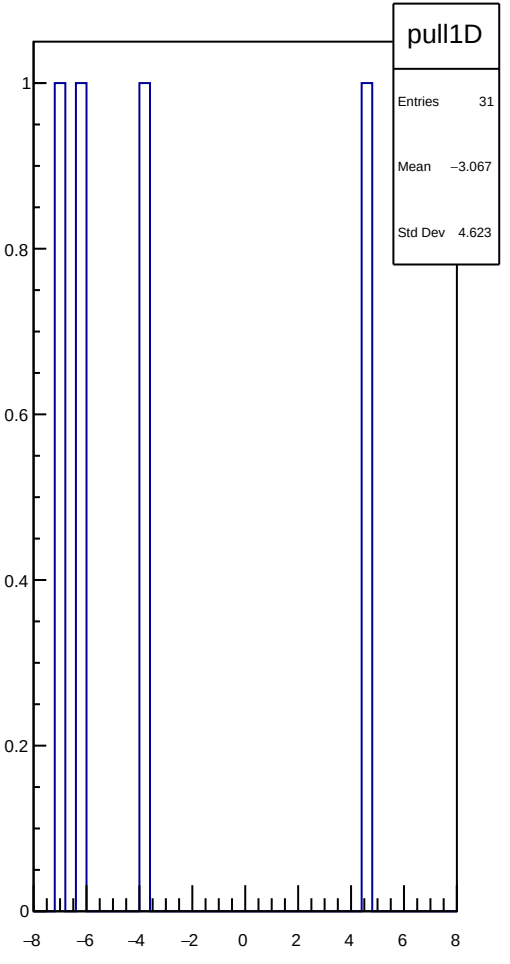

yield_bpm0r03Y_mean vs run
χ² / ndf 5.362e+05 / 30
p0 −0.4869 ± 1.548e−05
−0.45
−0.5
−0.55
−0.6
−0.65
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

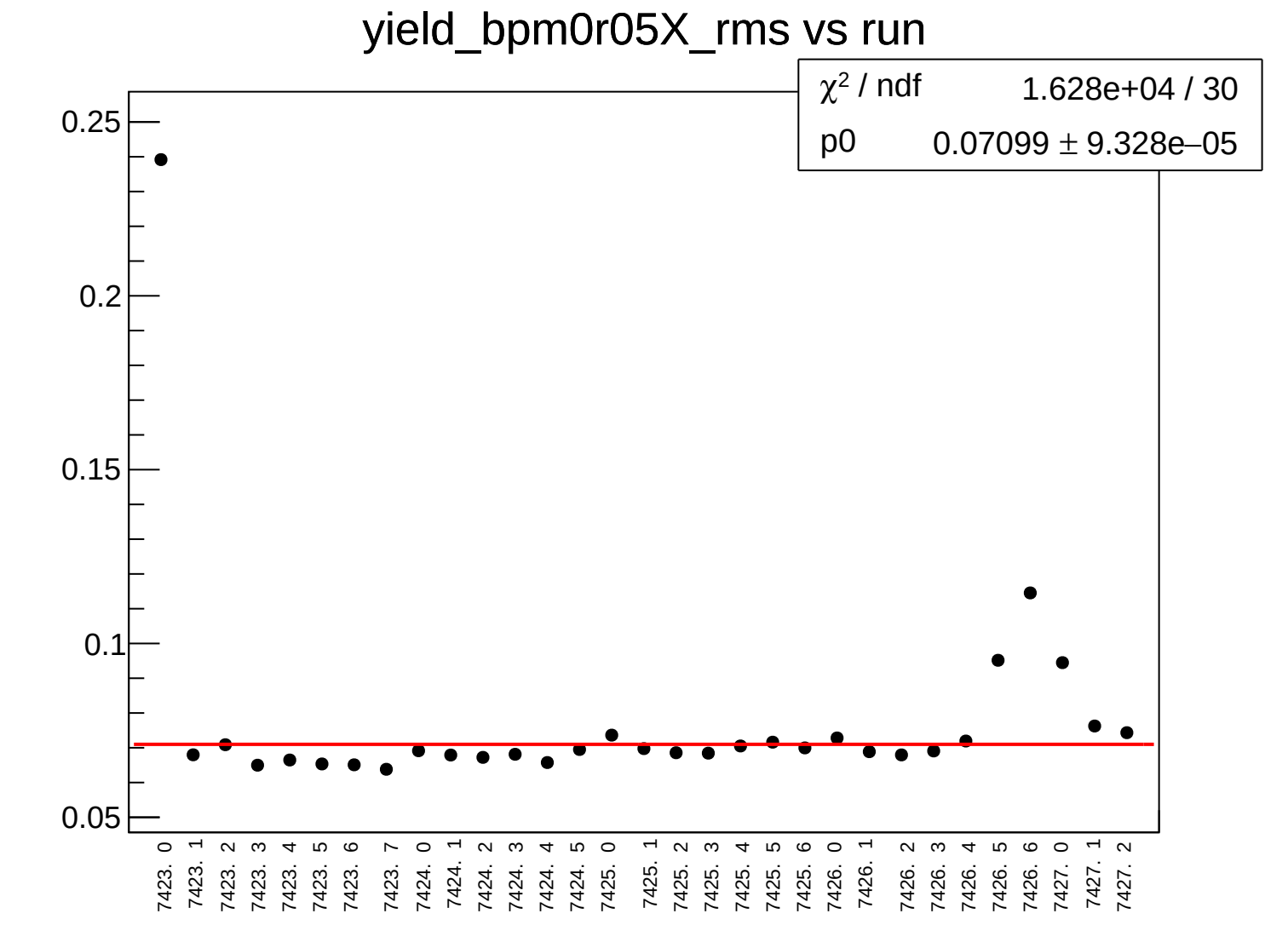

pull
Entries 31
Mean 24.14
Std Dev 10.32
500
400
300
200
100
0
−100
−200

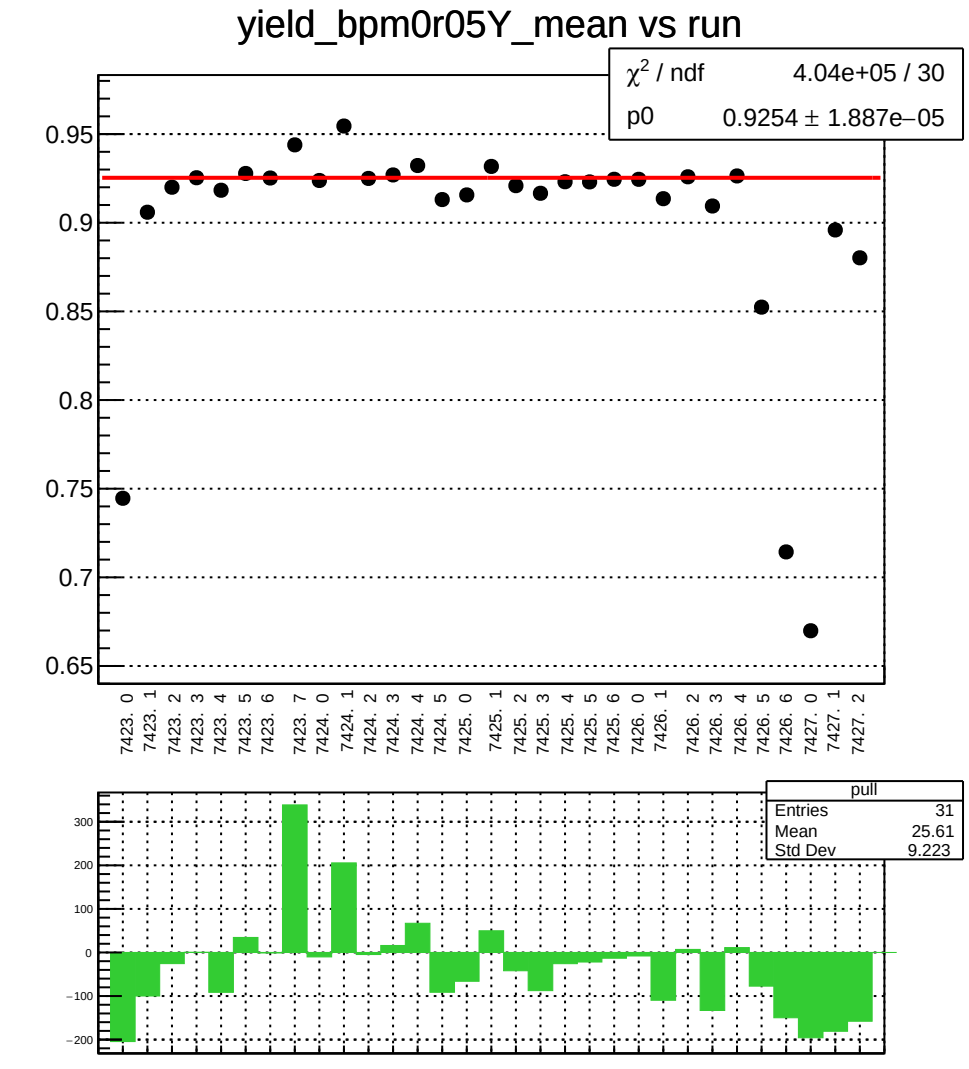

pull1D
Entries 31
Mean −0.2092
Std Dev 6.325
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

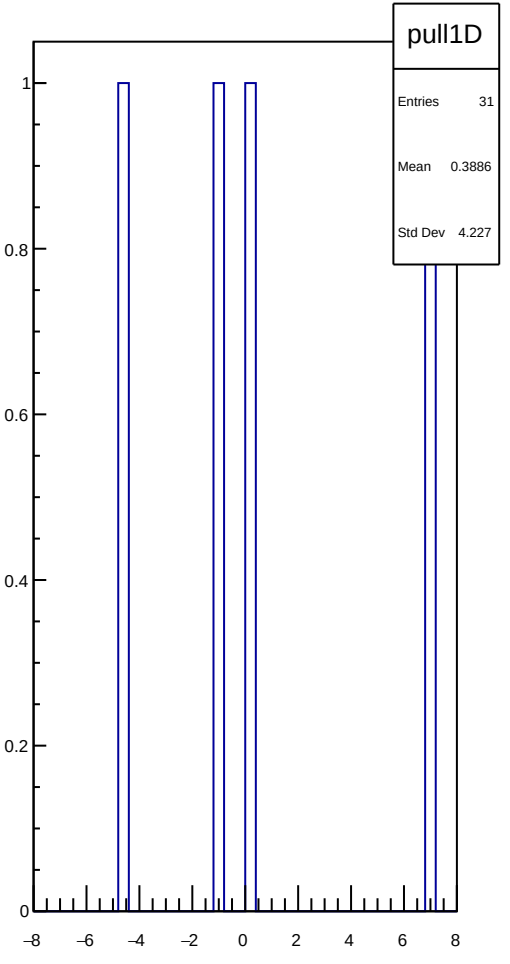

yield_bpm0r03Y_rms vs run
χ² / ndf 9.397e+04 / 30
p0 0.007751 ± 1.094e−05
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

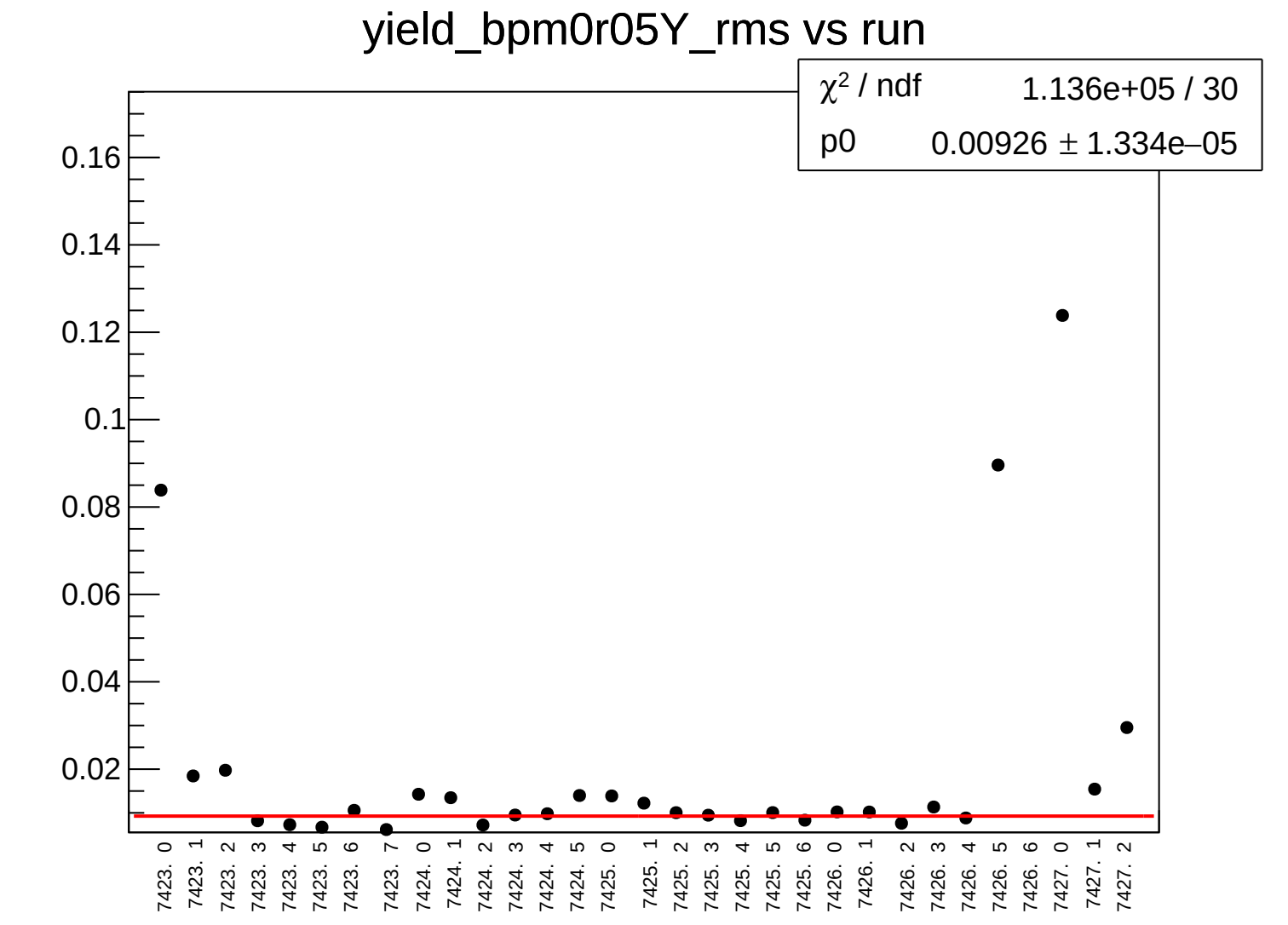

yield_bpm0r05X_mean vs run
χ² / ndf 8.791e+04 / 30
p0 −1.197 ± 0.0001319
−1.15
−1.2
−1.25
−1.3
−1.35
−1.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 66.63
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

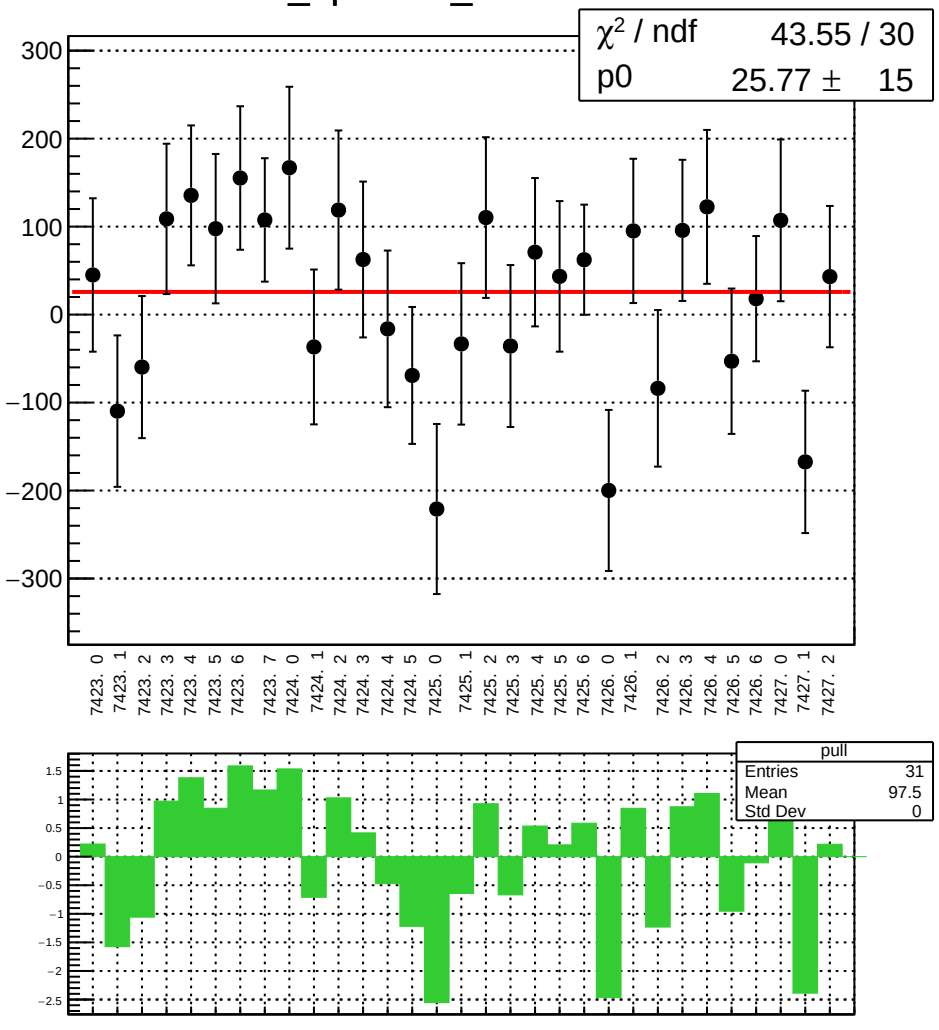

pull1D
Entries 31
Mean −3.067
Std Dev 4.623
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

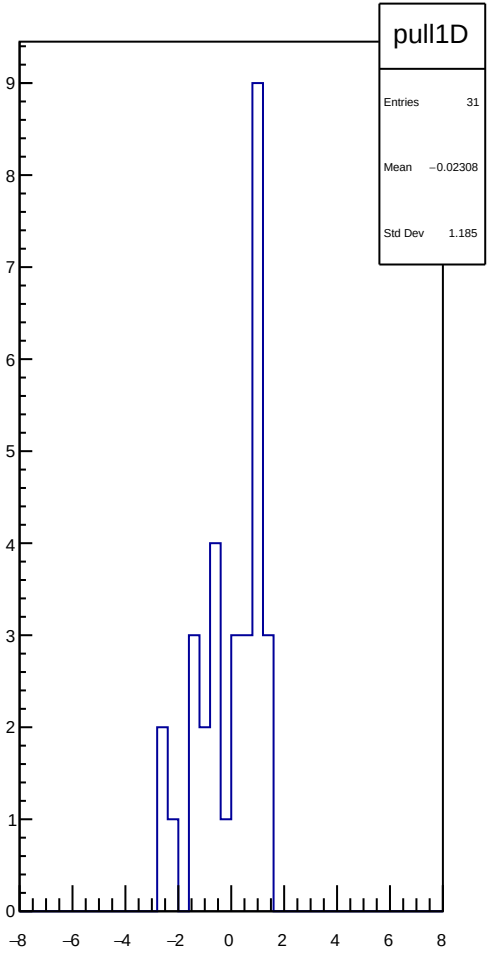

yield_bpm0r05X_rms vs run
χ² / ndf 1.628e+04 / 30
p0 0.07099 ± 9.328e–05
0.25
0.2
0.15
0.1
0.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

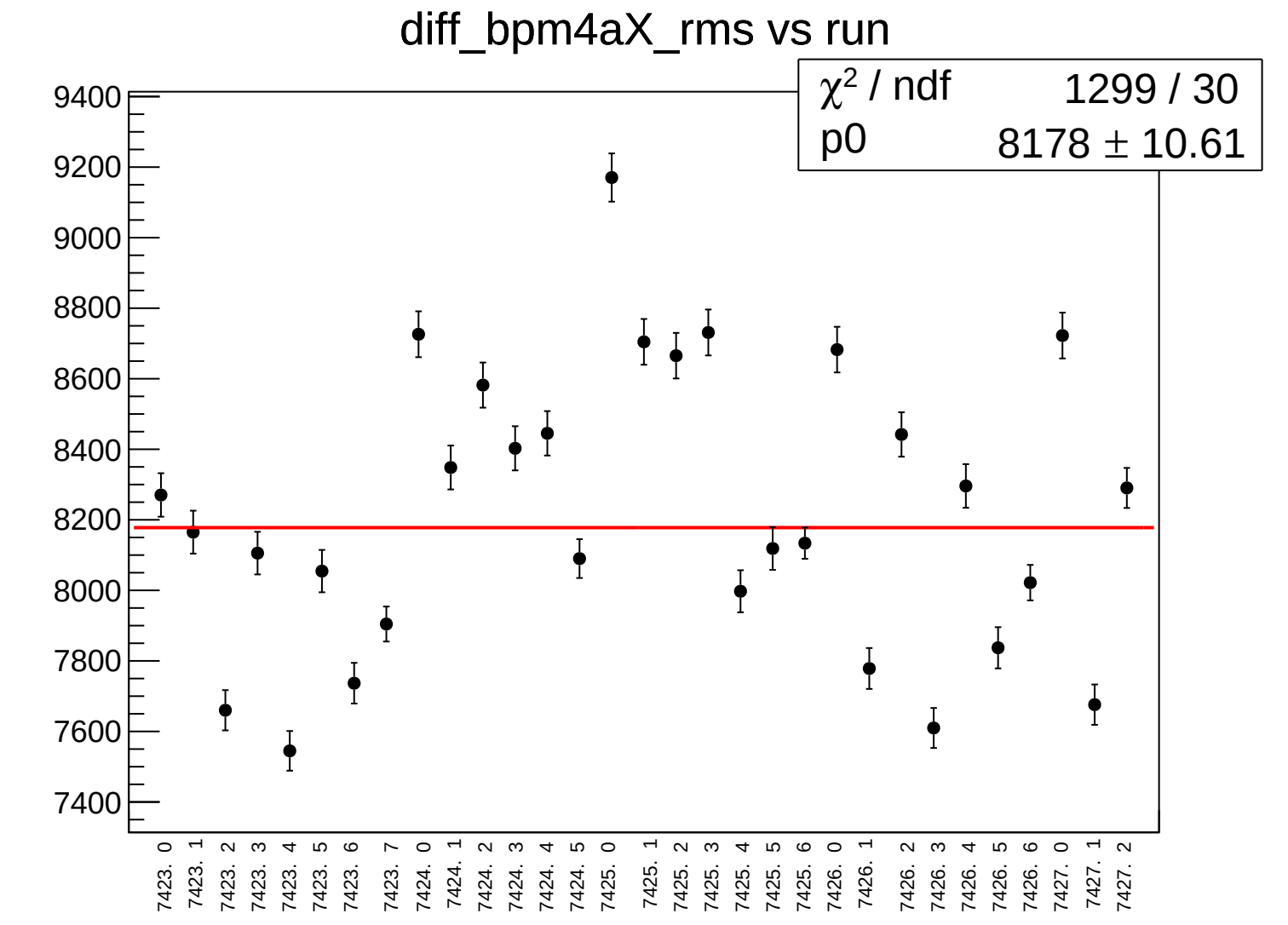

yield_bpm0r05Y_mean vs run
χ² / ndf 4.04e+05 / 30
p0 0.9254 ± 1.887e−05
0.95
0.9
0.85
0.8
0.75
0.7
0.65
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 25.61
Std Dev 9.223
300
200
100
0
−100
−200

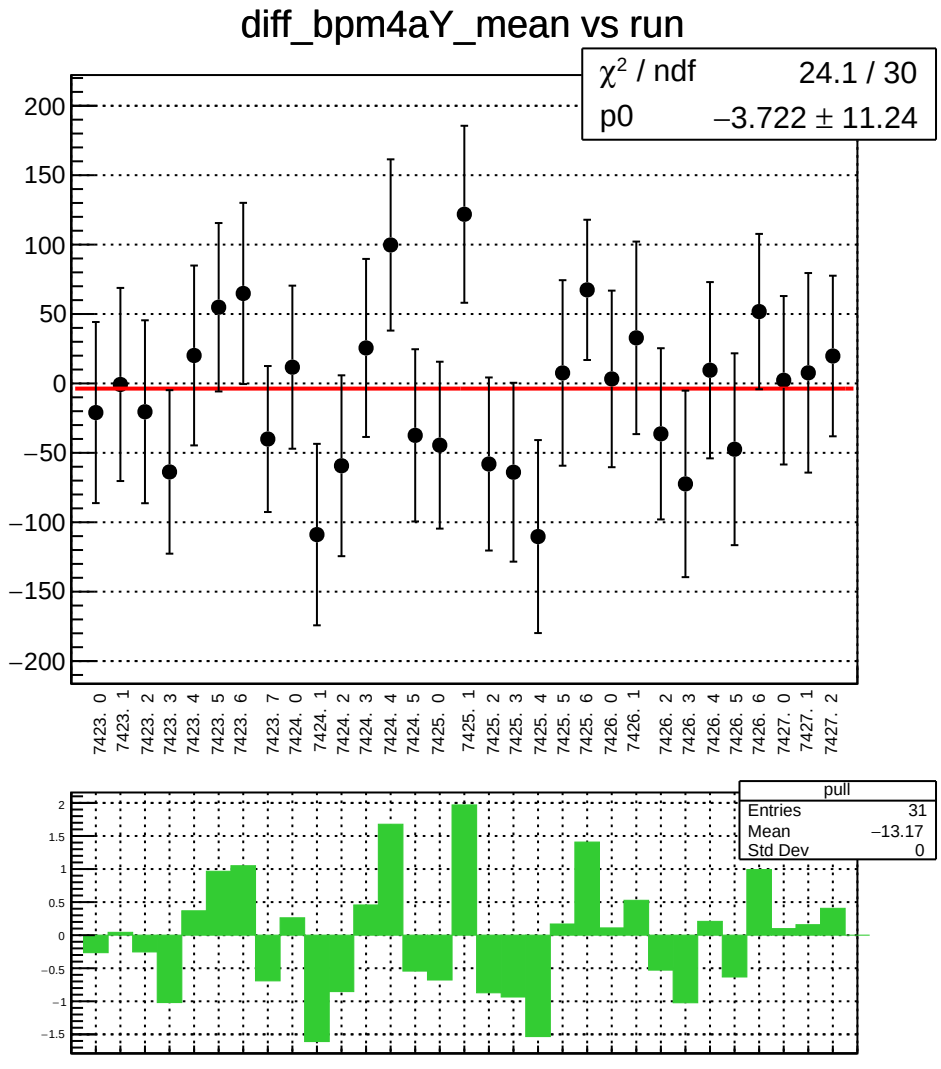

pull1D
Entries 31
Mean 0.3886
Std Dev 4.227
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

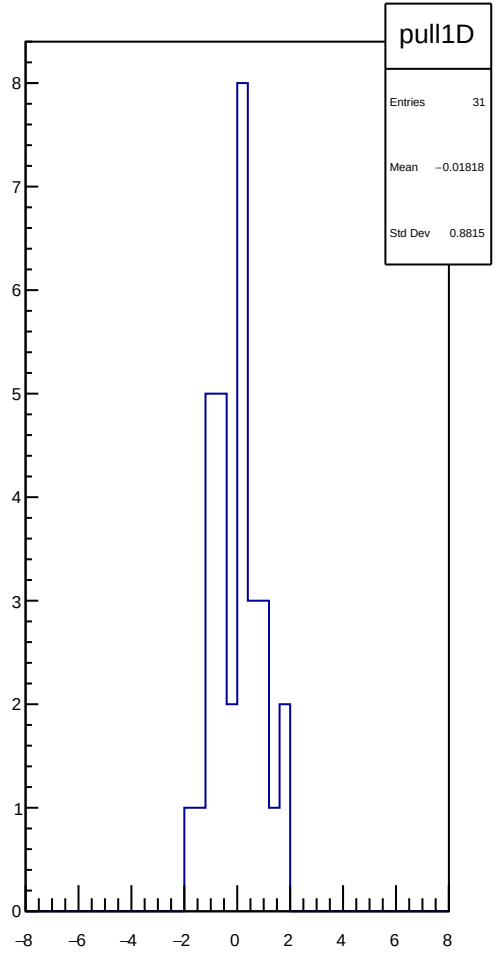

yield_bpm0r05Y_rms vs run
χ² / ndf 1.136e+05 / 30
p0 0.00926 ± 1.334e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

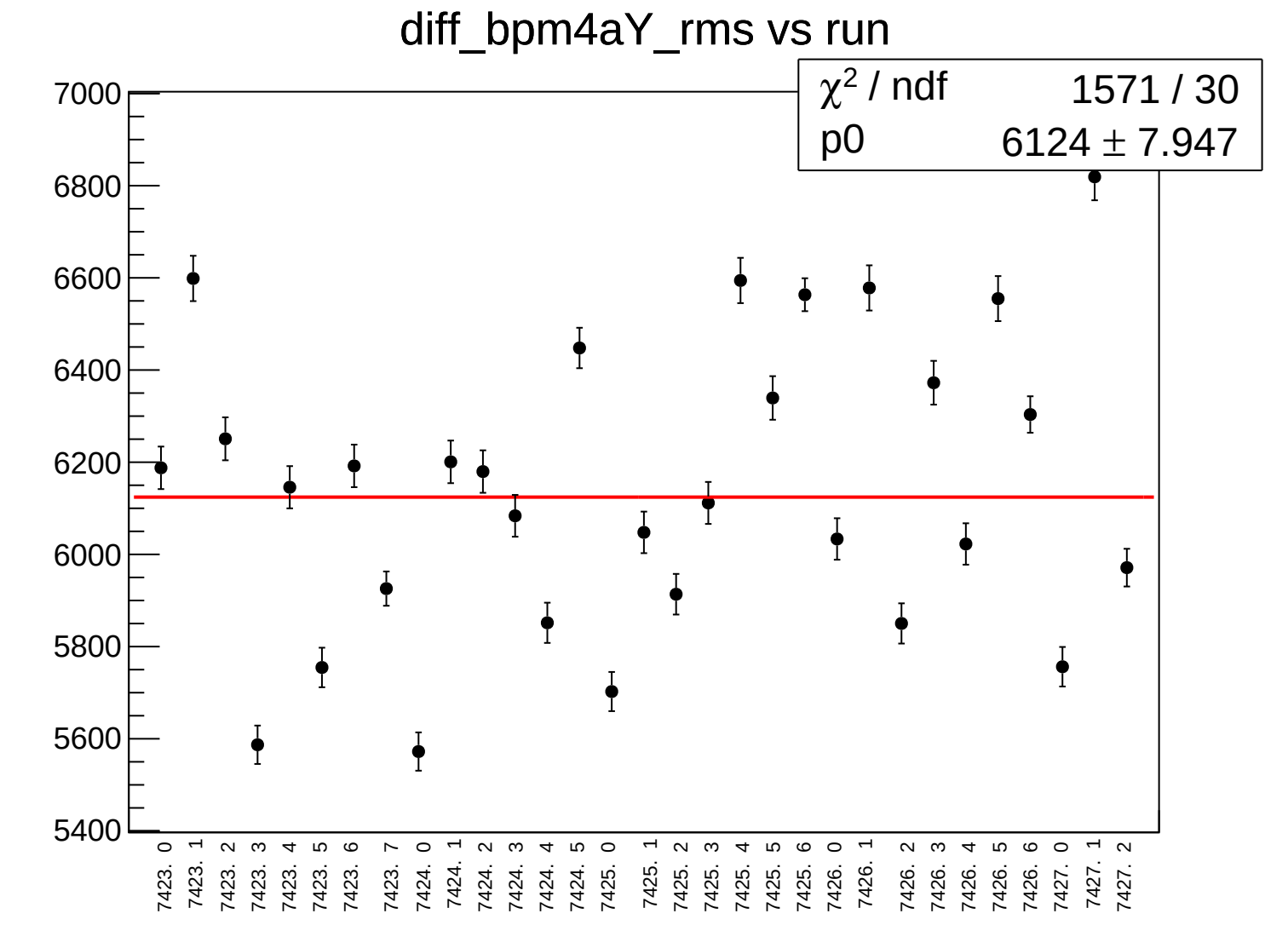

diff_bpm4aX_mean vs run
χ² / ndf 43.55 / 30
p0 25.77 ± 15
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 97.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

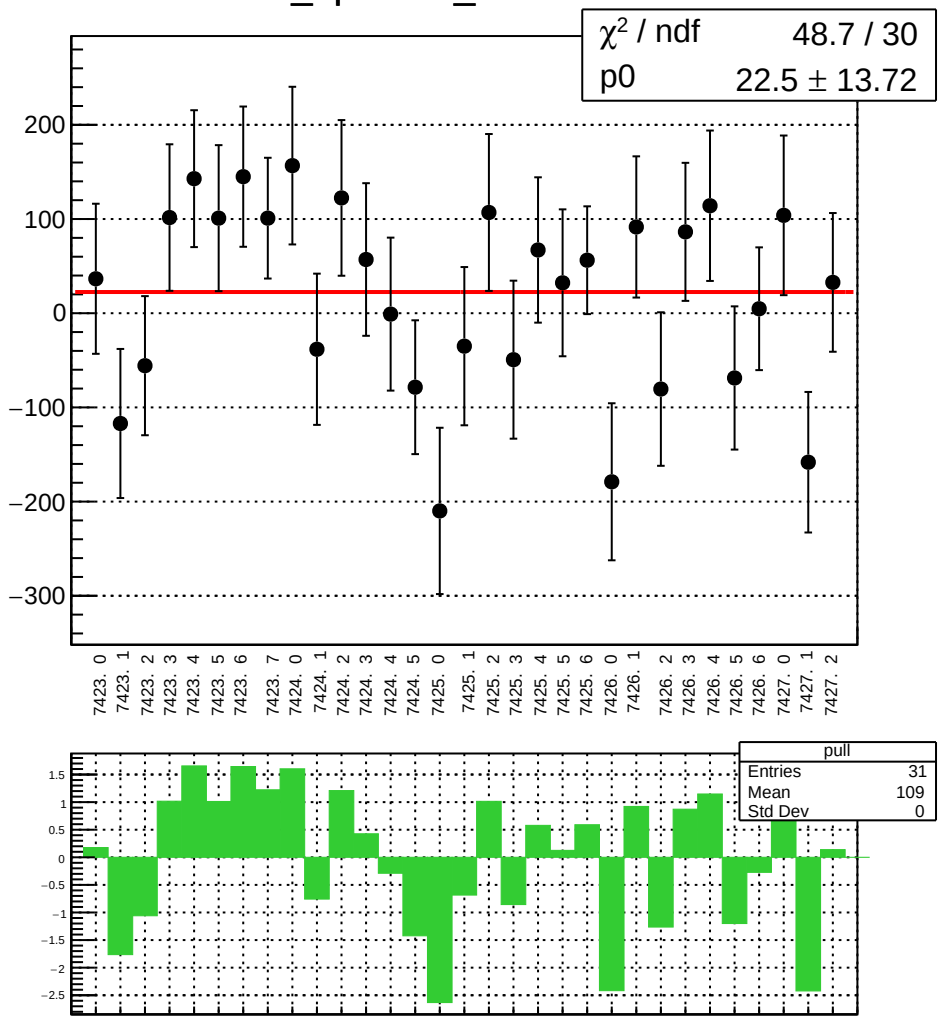

pull1D
Entries 31
Mean −0.02308
Std Dev 1.185
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

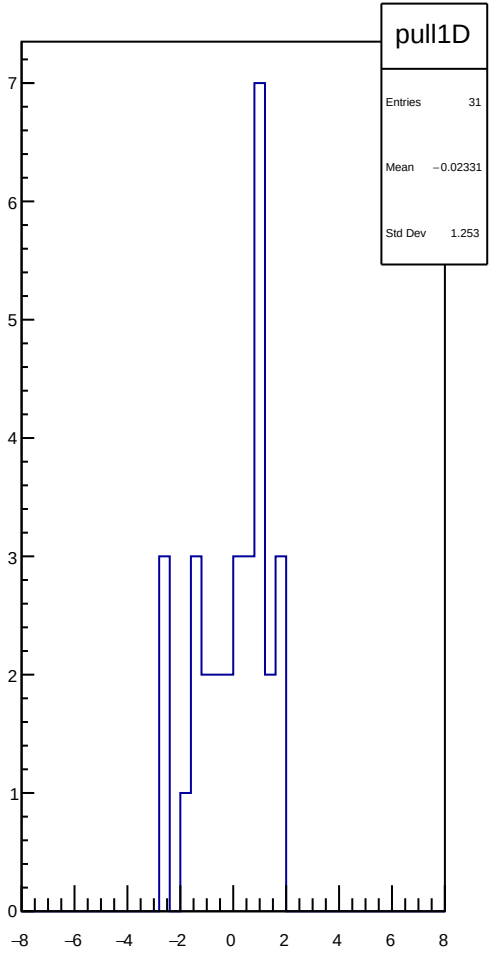

diff_bpm4aX_rms vs run
χ² / ndf 1299 / 30
p0 8178 ± 10.61
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

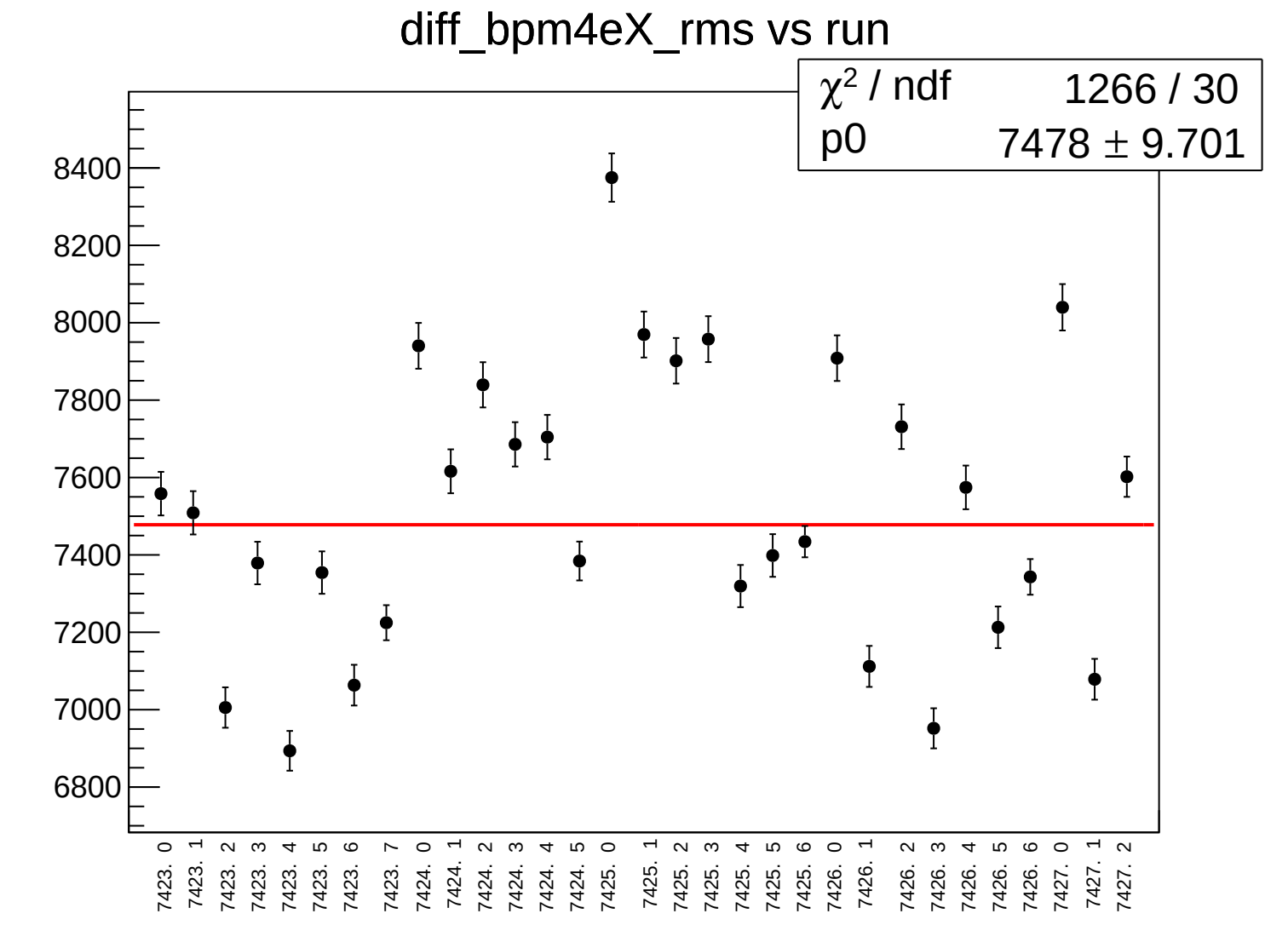

diff_bpm4aY_mean vs run
χ² / ndf 24.1 / 30
p0 −3.722 ± 11.24
200
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −13.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

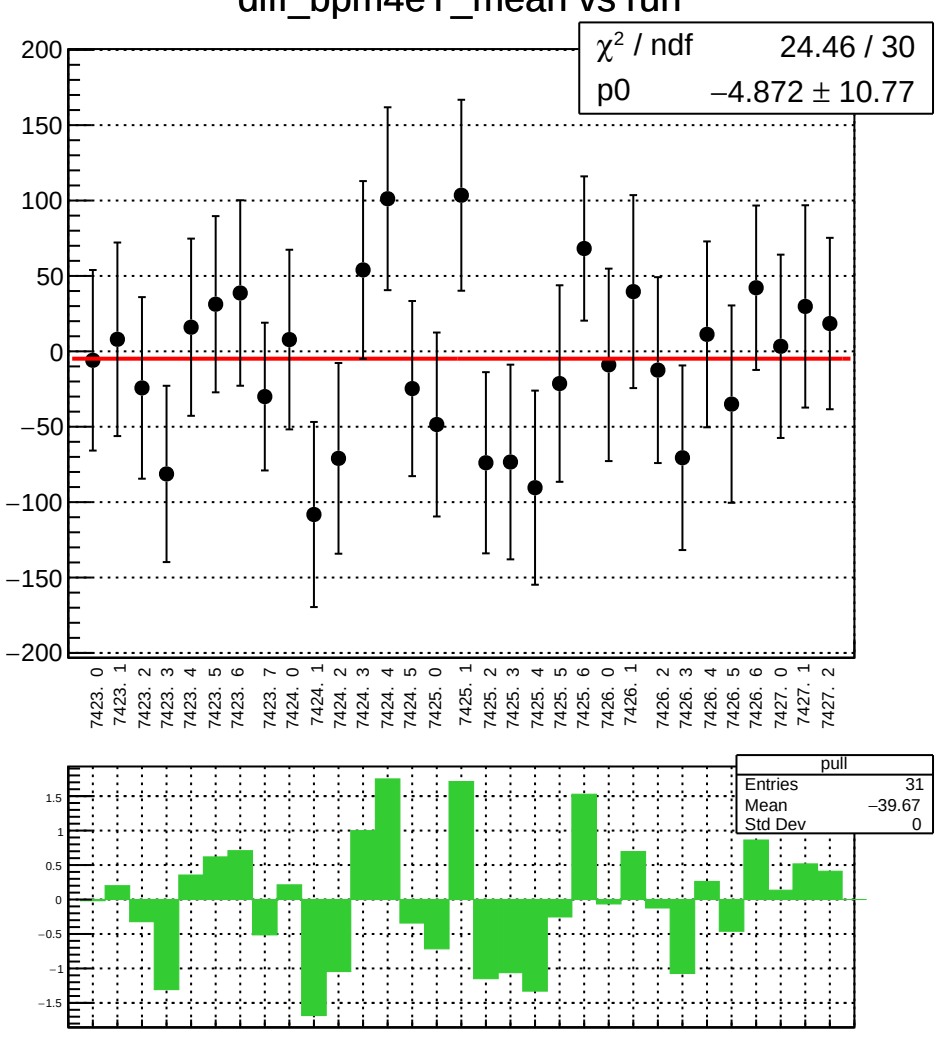

pull1D
Entries 31
Mean −0.01818
Std Dev 0.8815
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

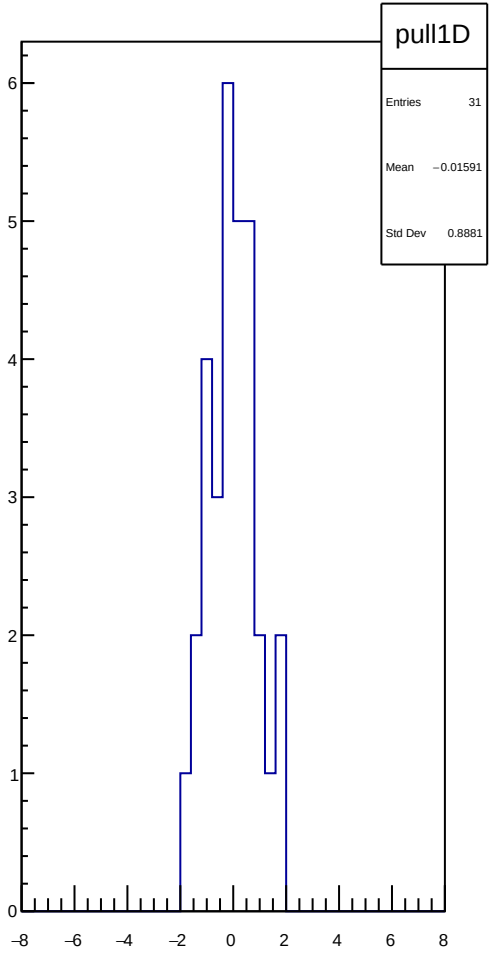

diff_bpm4aY_rms vs run
χ^2 / ndf 1571 / 30
p0 6124 ± 7.947
7000
6800
6600
6400
6200
6000
5800
5600
5400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

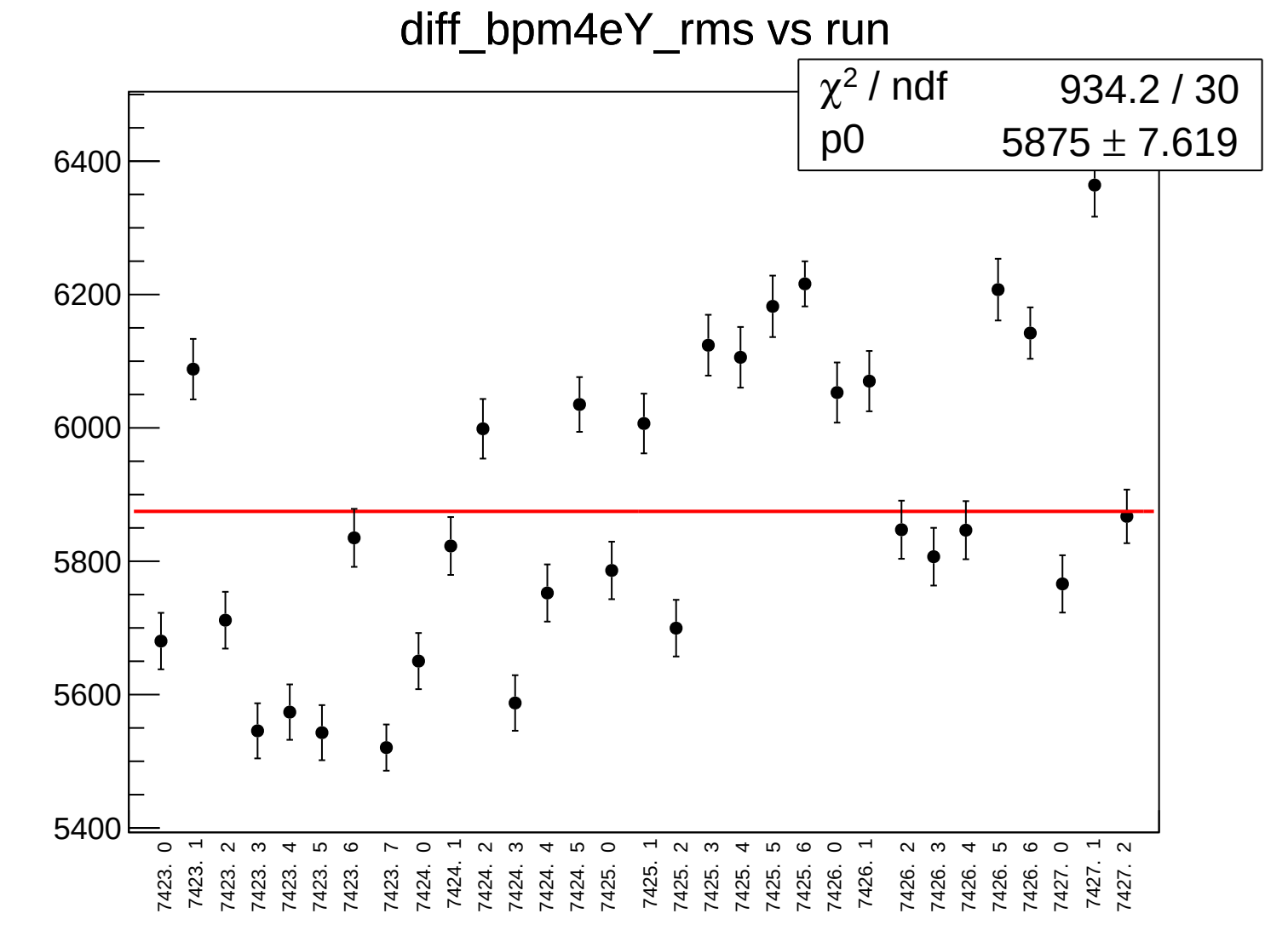

diff_bpm4eX_mean vs run
χ² / ndf 48.7 / 30
p0 22.5 ± 13.72
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 109
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

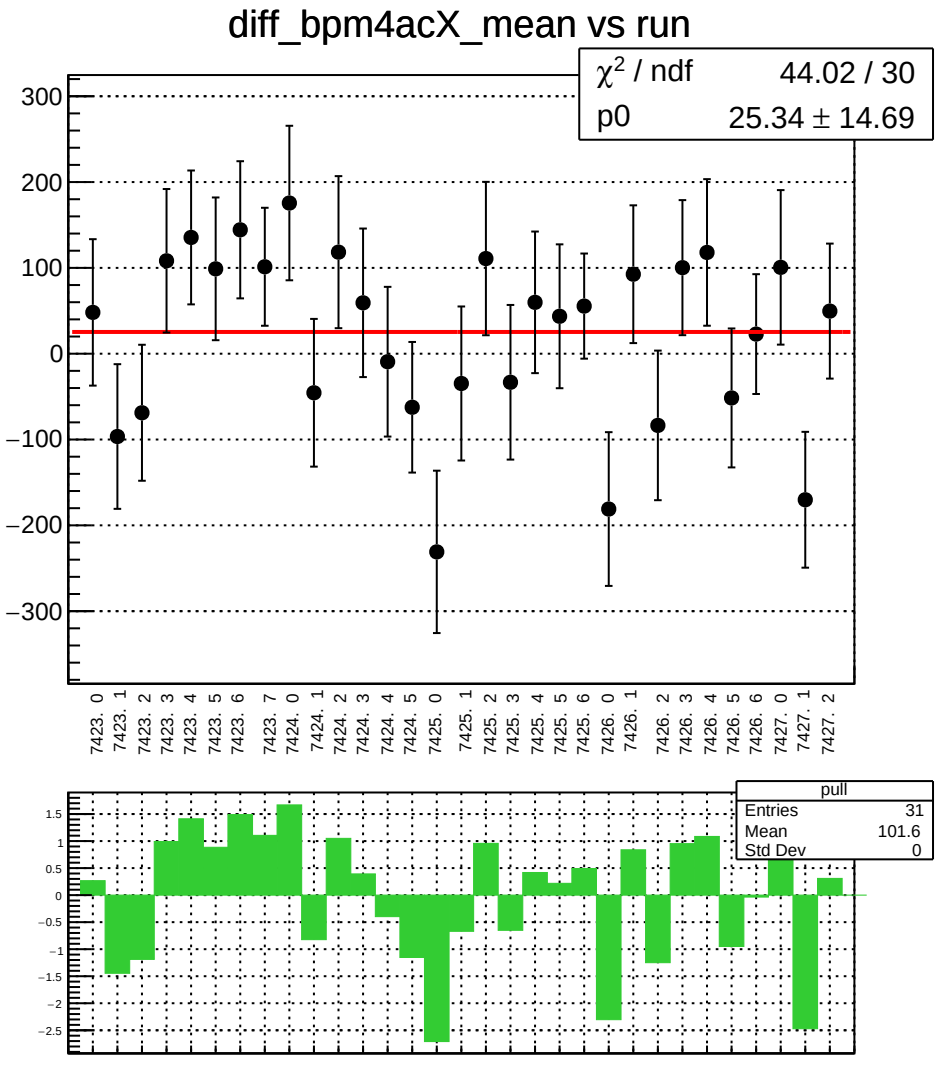

pull1D
Entries 31
Mean −0.02331
Std Dev 1.253
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

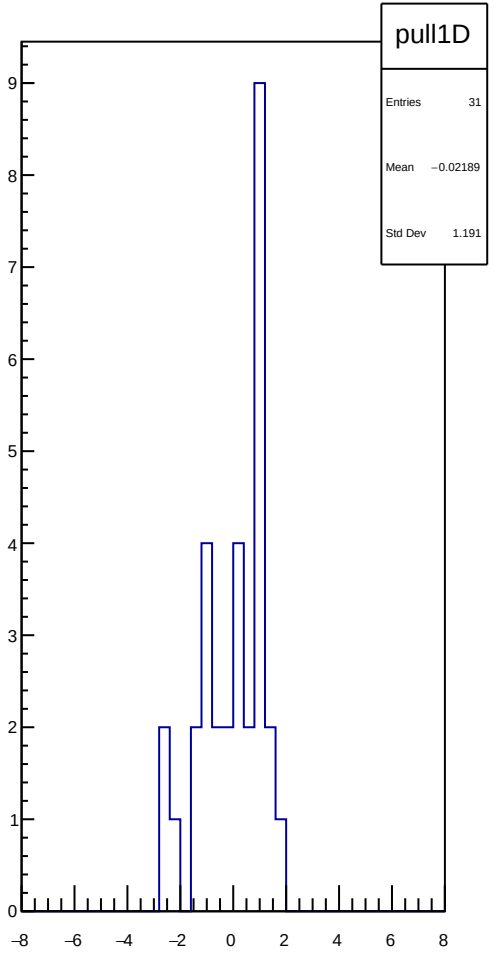

diff_bpm4eX_rms vs run
χ² / ndf 1266 / 30
p0 7478 ± 9.701
8400
8200
8000
7800
7600
7400
7200
7000
6800
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

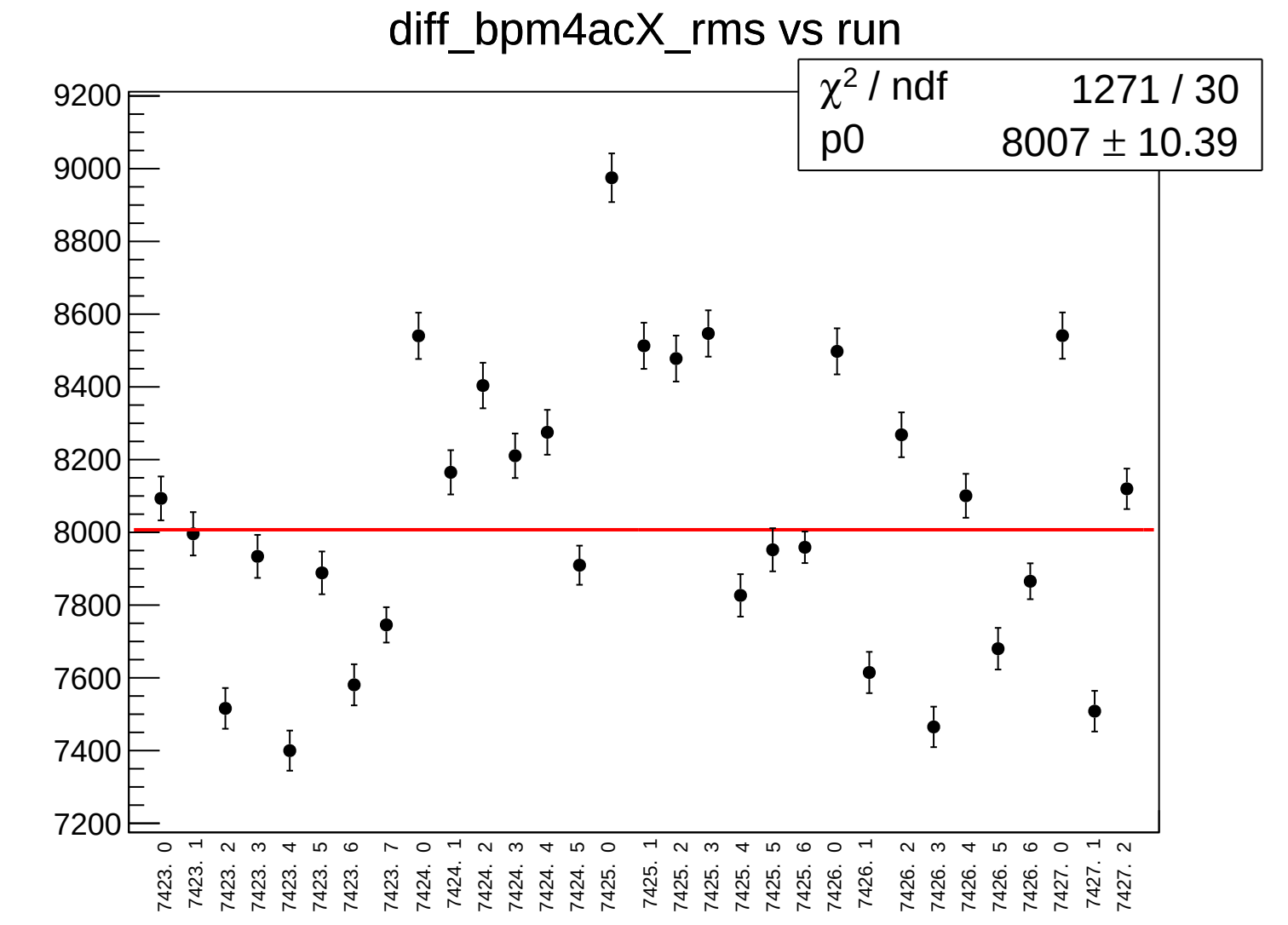

diff_bpm4eY_mean vs run
χ² / ndf 24.46 / 30
p0 −4.872 ± 10.77
200
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −39.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

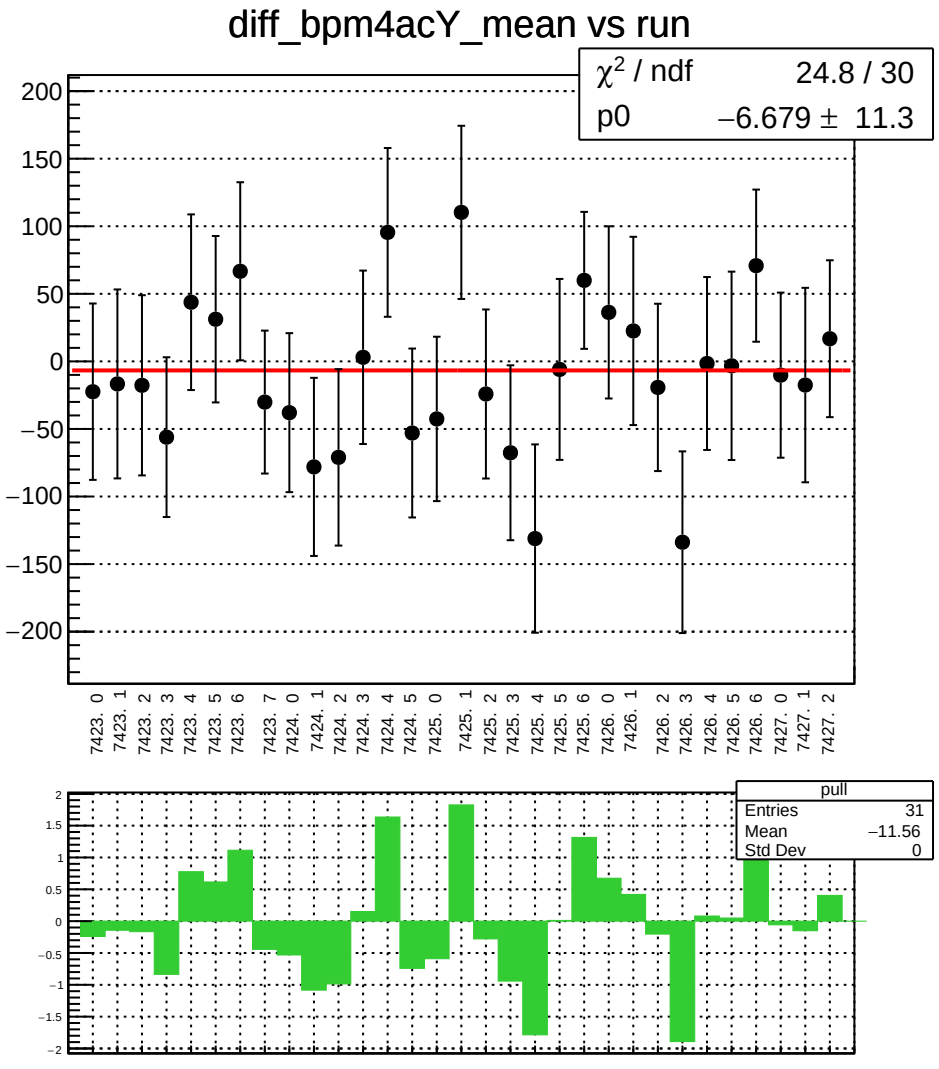

pull1D
Entries 31
Mean −0.01591
Std Dev 0.8881
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

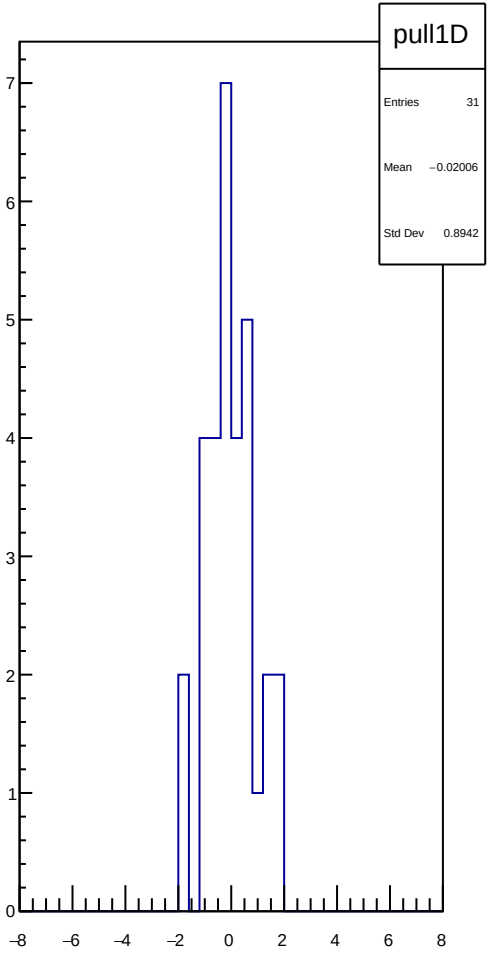

diff_bpm4eY_rms vs run
χ^2 / ndf 934.2 / 30
p0 5875 ± 7.619
6400
6200
6000
5800
5600
5400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

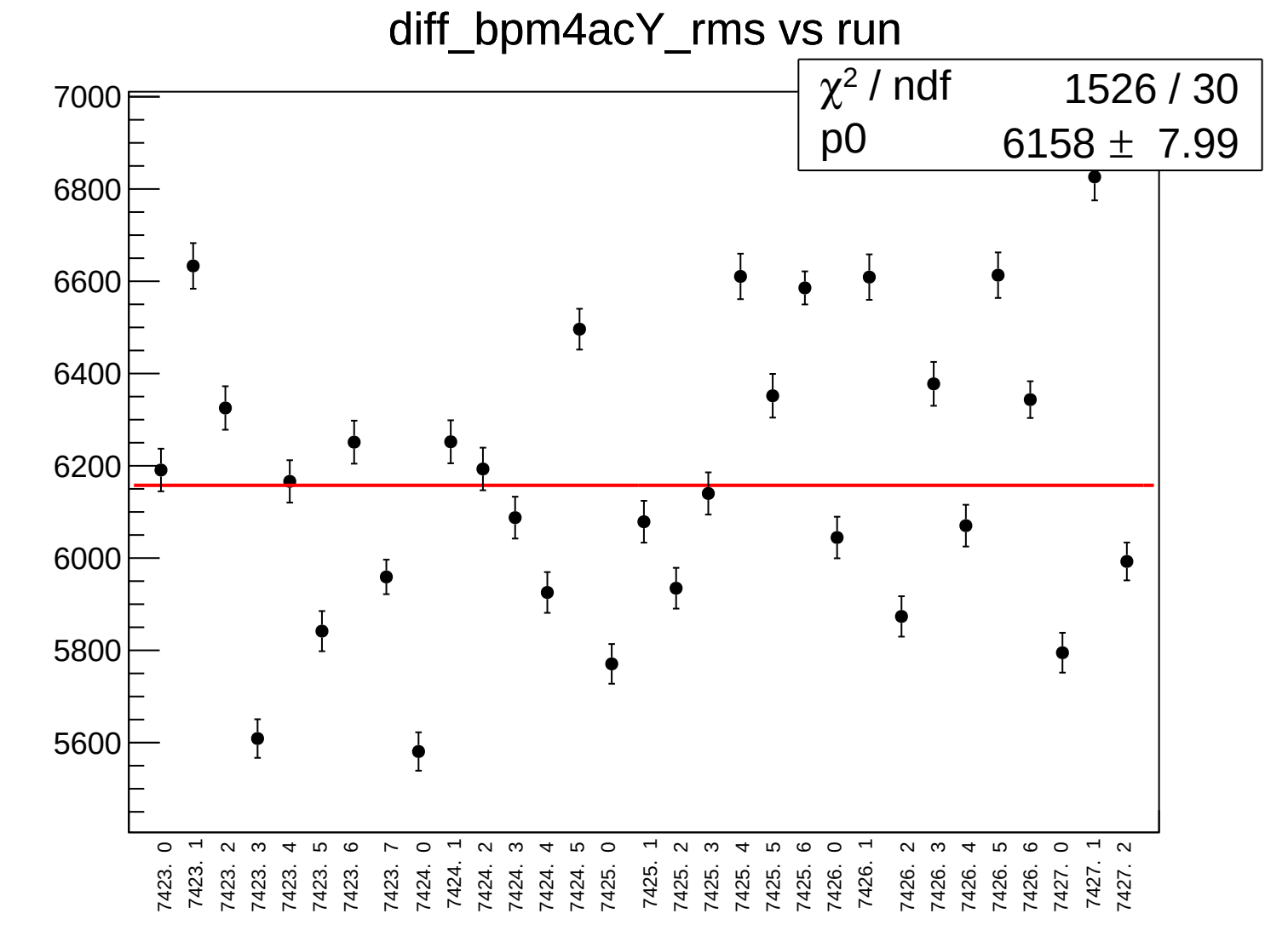

diff_bpm4acX_mean vs run
χ² / ndf 44.02 / 30
p0 25.34 ± 14.69
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 101.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

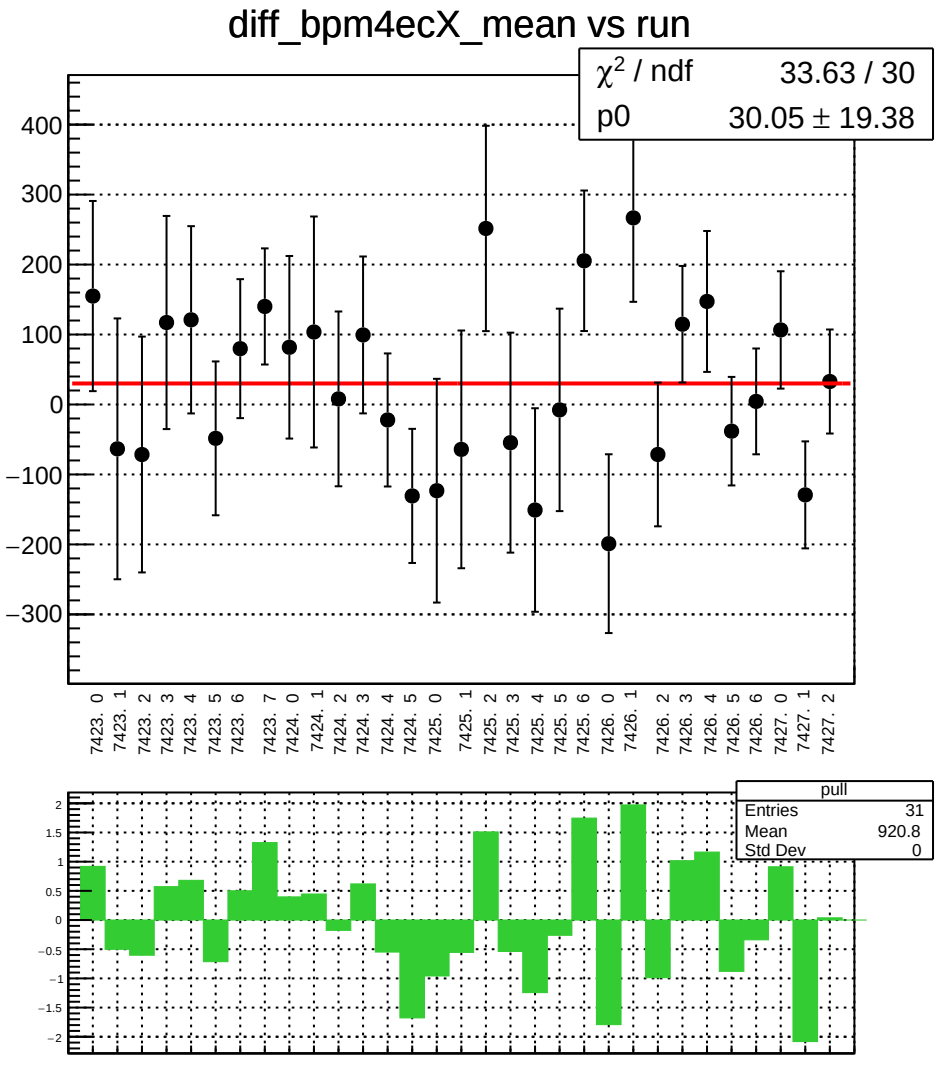

pull1D
Entries 31
Mean −0.02189
Std Dev 1.191
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

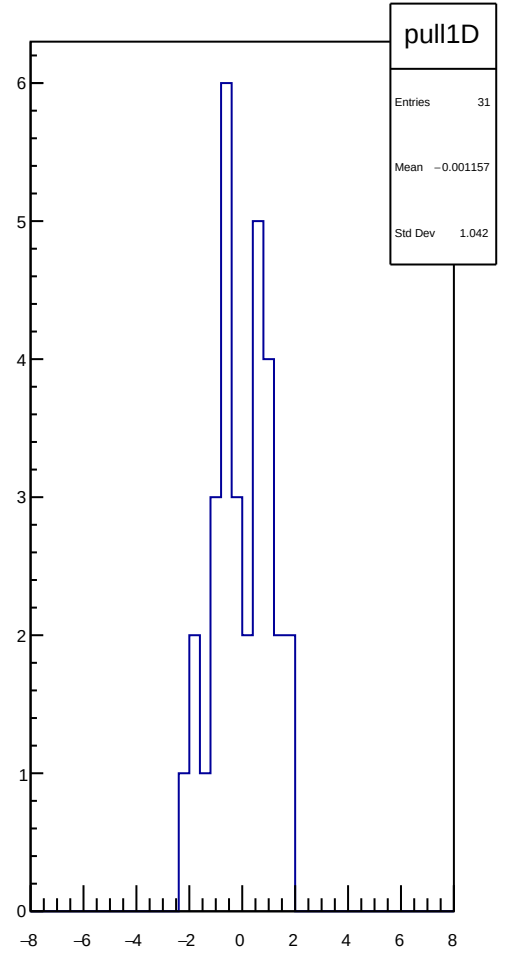

diff_bpm4acX_rms vs run
χ² / ndf 1271 / 30
p0 8007 ± 10.39
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

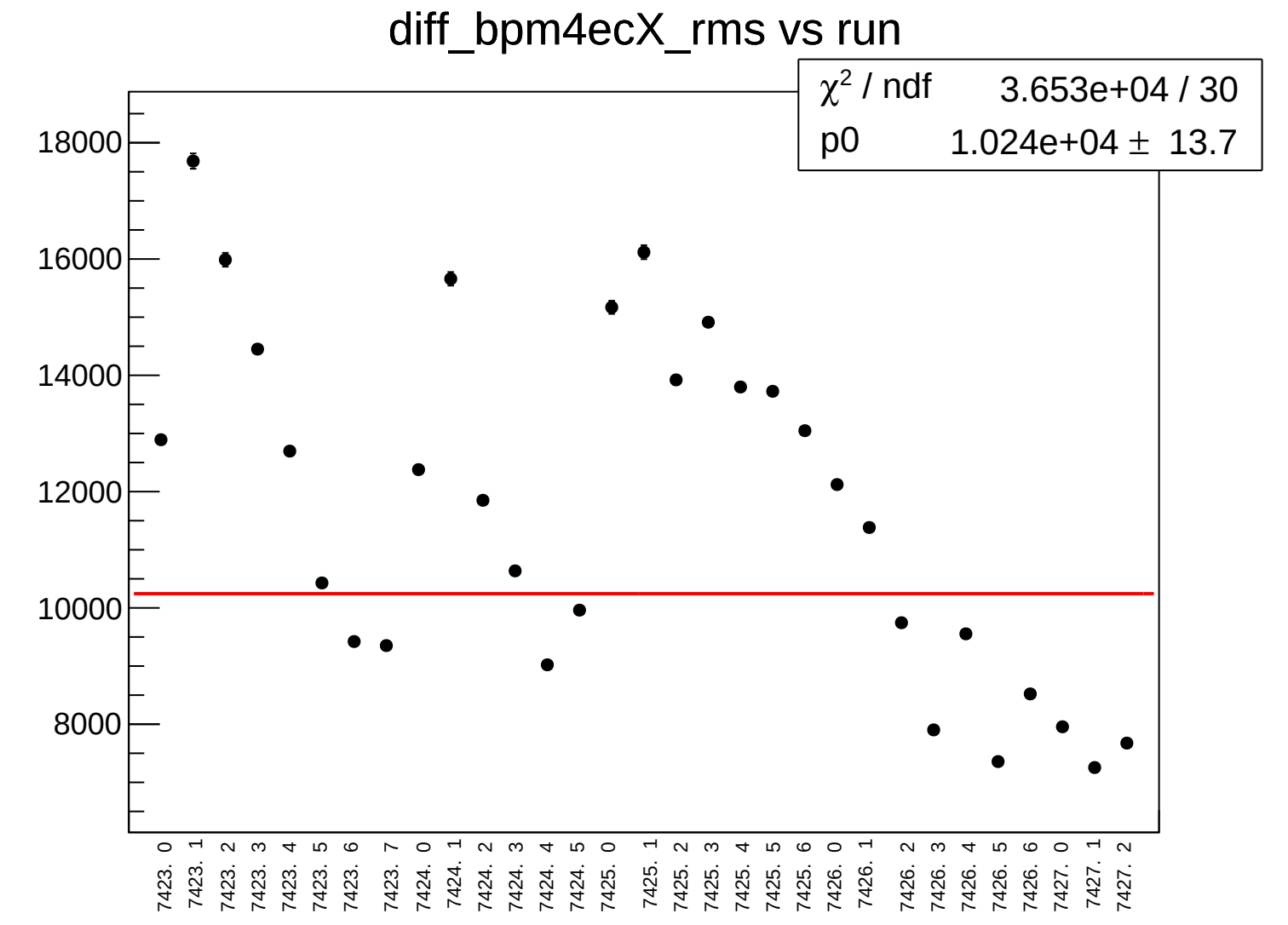

diff_bpm4acY_mean vs run
χ² / ndf 24.8 / 30
p0 −6.679 ± 11.3
200
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −11.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

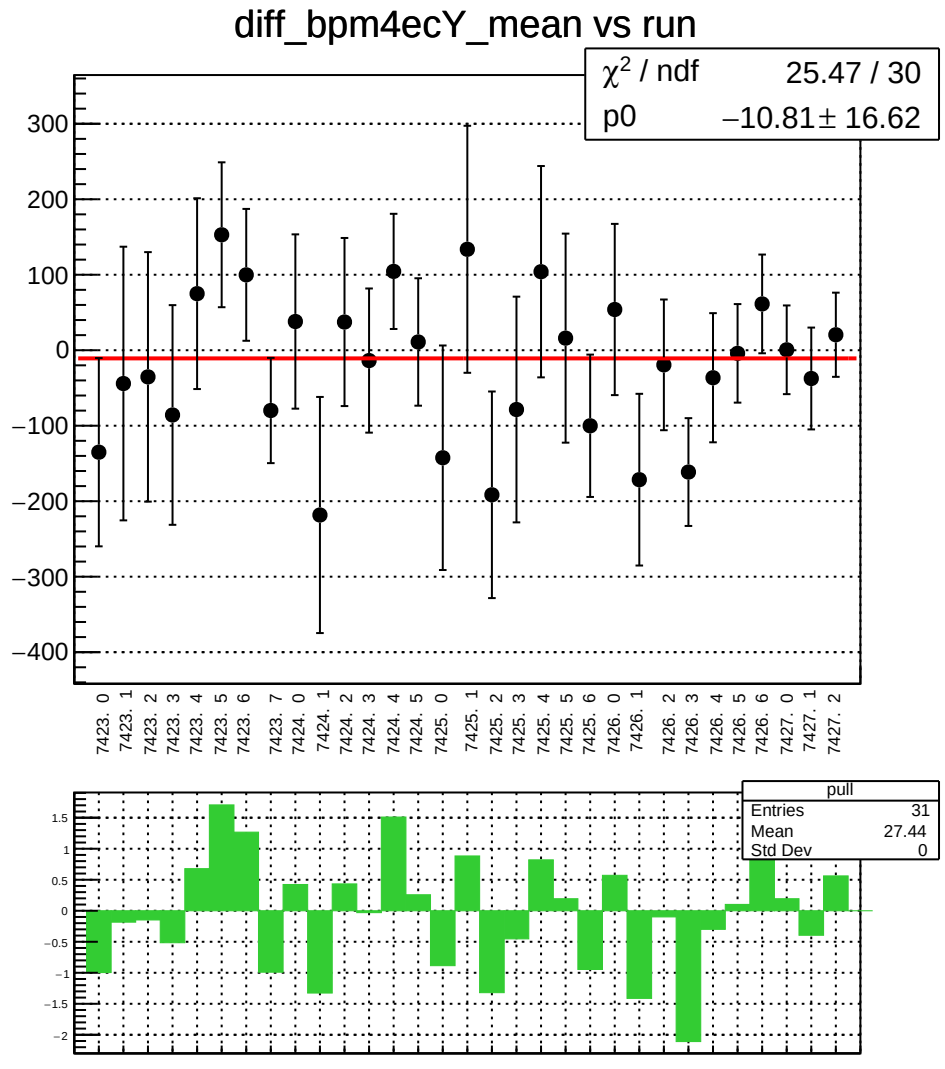

pull1D
Entries 31
Mean −0.02006
Std Dev 0.8942
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

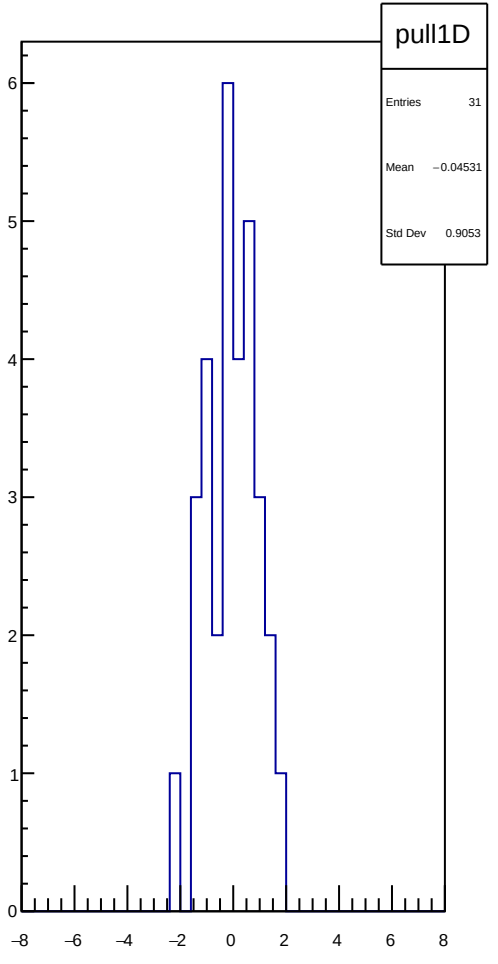

diff_bpm4acY_rms vs run
χ² / ndf 1526 / 30
p0 6158 ± 7.99
7000
6800
6600
6400
6200
6000
5800
5600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

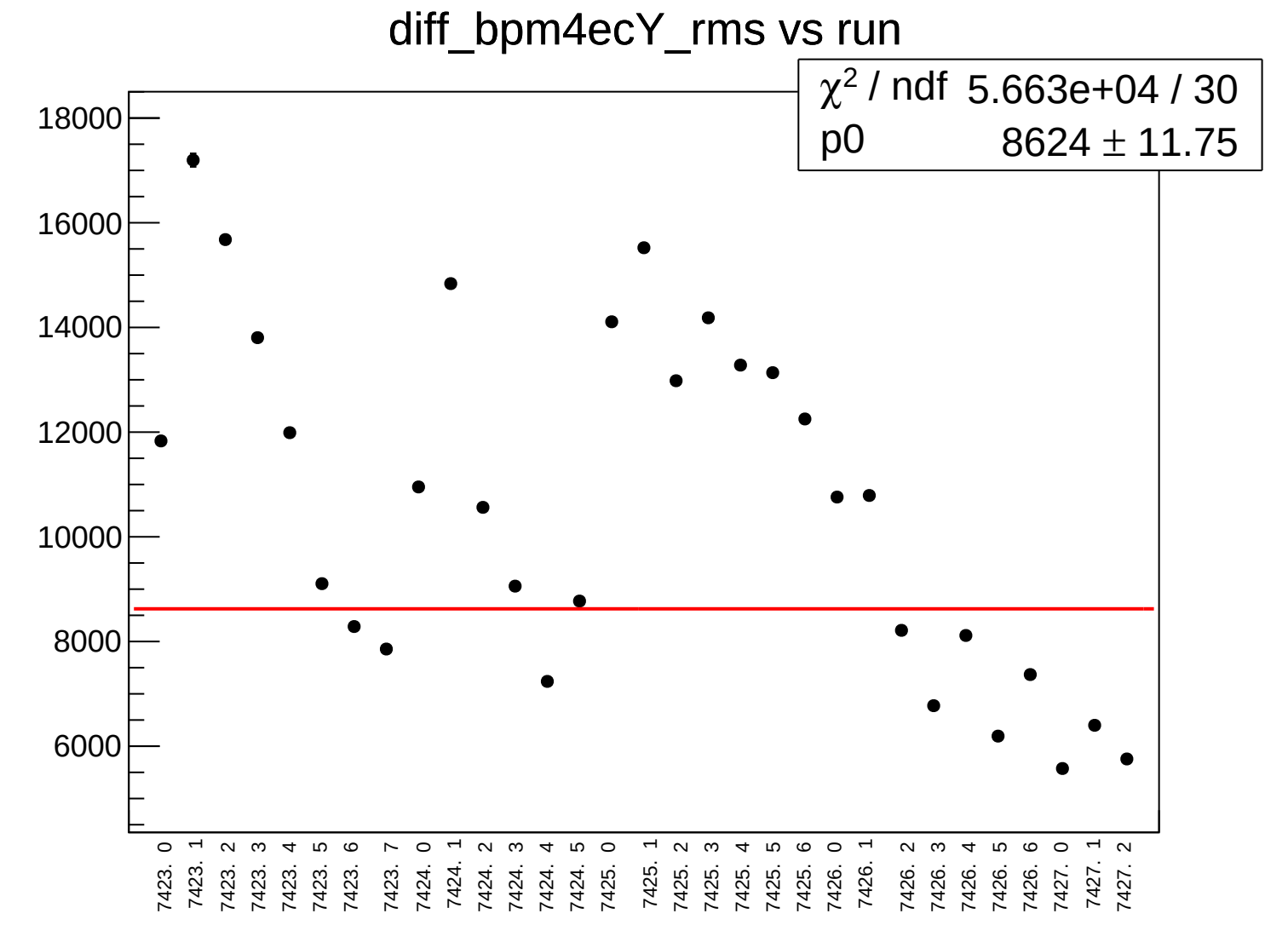

diff_bpm4ecX_mean vs run
χ² / ndf 33.63 / 30
p0 30.05 ± 19.38
400
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 920.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

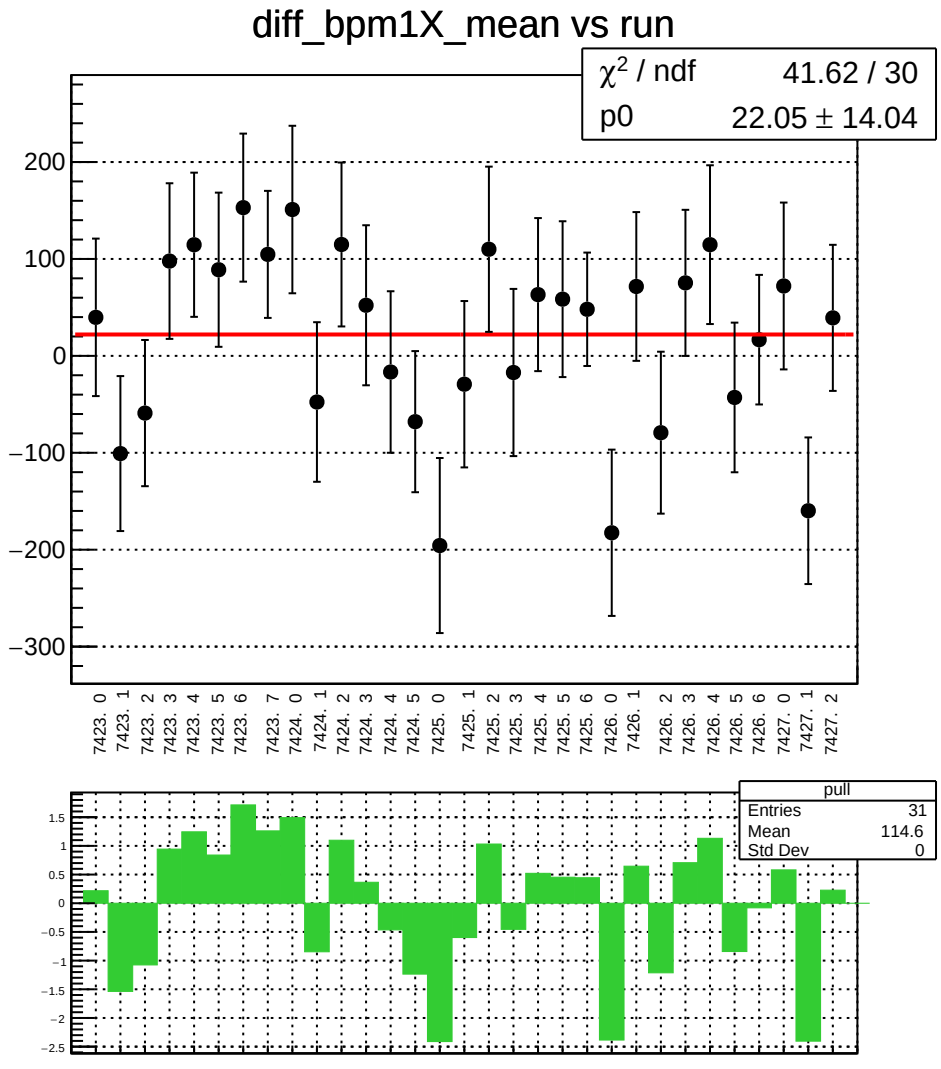

pull1D
Entries 31
Mean −0.001157
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

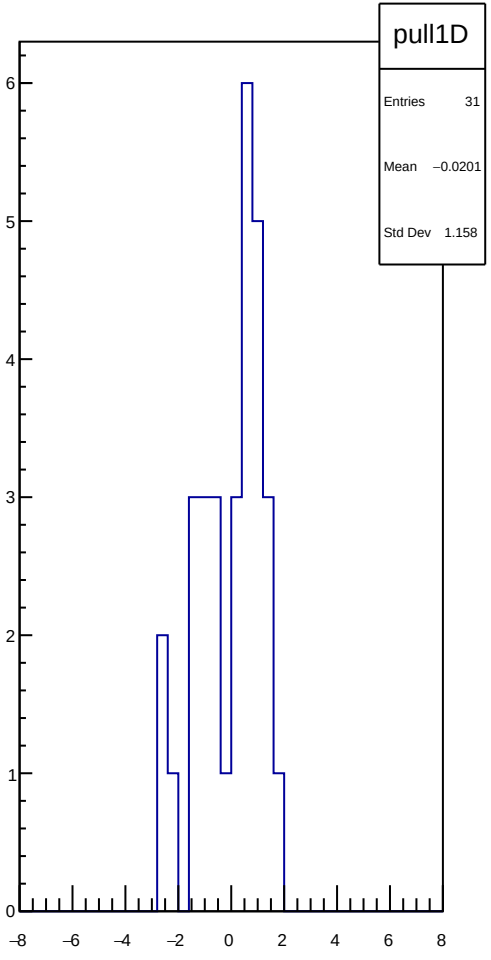

diff_bpm4ecX_rms vs run
χ² / ndf 3.653e+04 / 30
p0 1.024e+04 ± 13.7
18000
16000
14000
12000
10000
8000
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

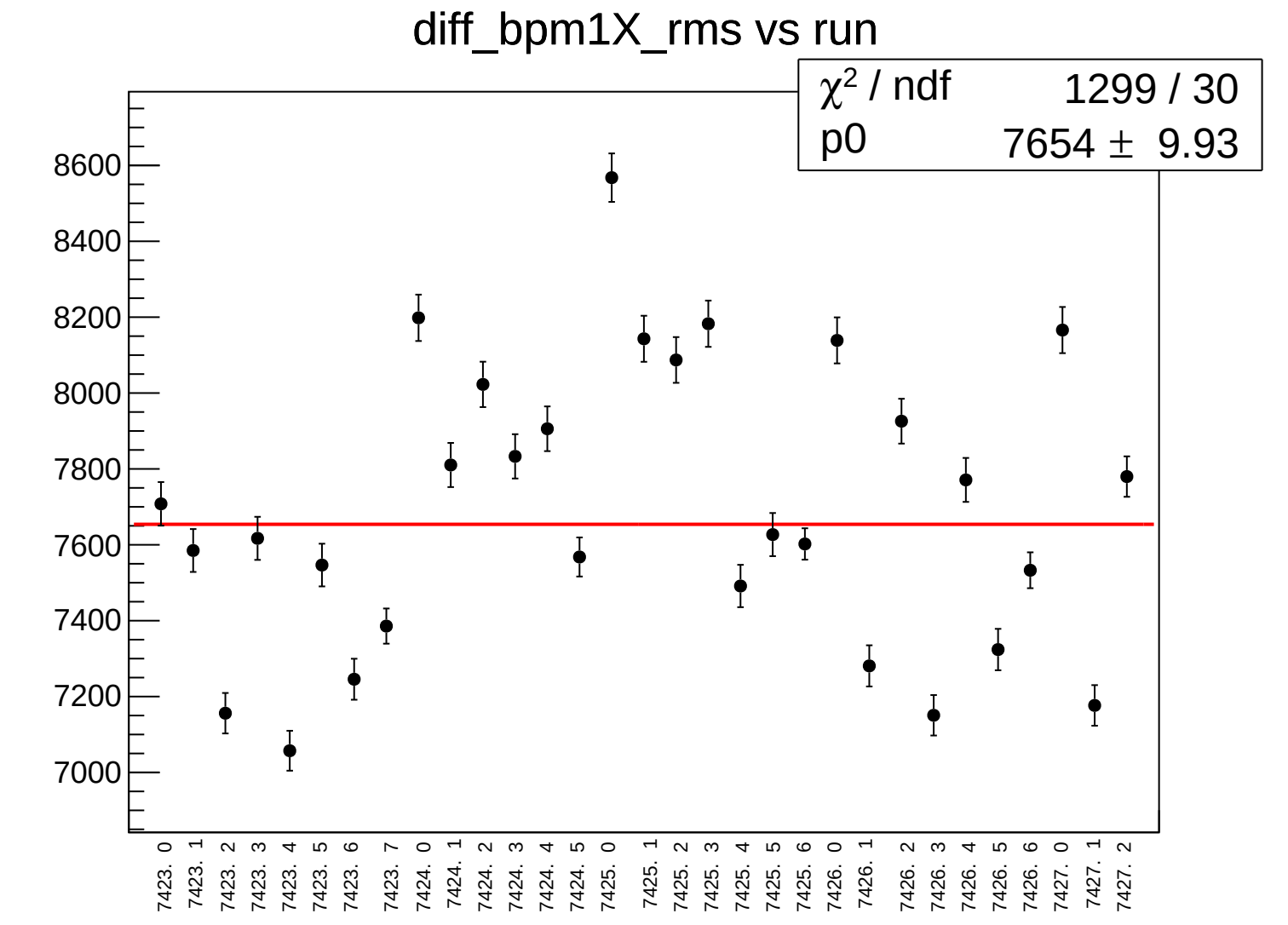

diff_bpm4ecY_mean vs run
χ² / ndf 25.47 / 30
p0 −10.81 ± 16.62
300
200
100
0
−100
−200
−300
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 27.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

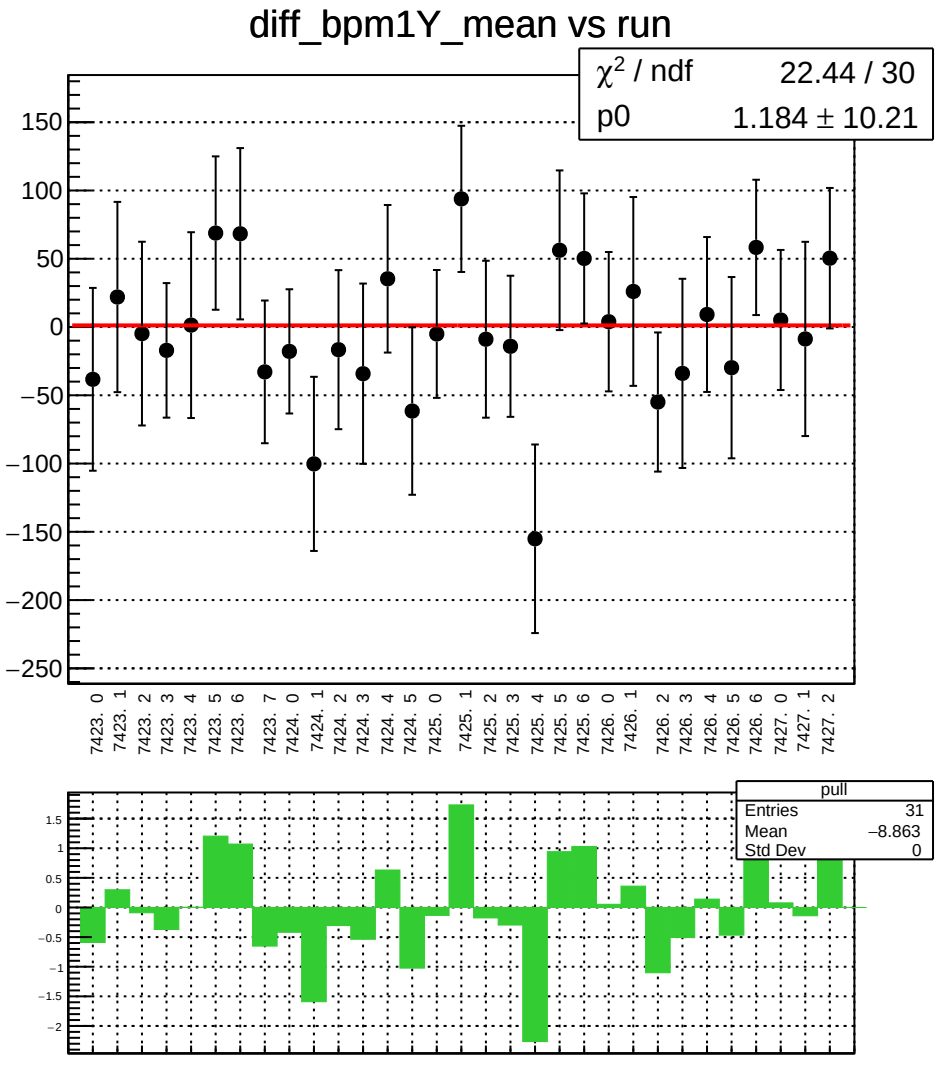

pull1D
Entries 31
Mean −0.04531
Std Dev 0.9053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

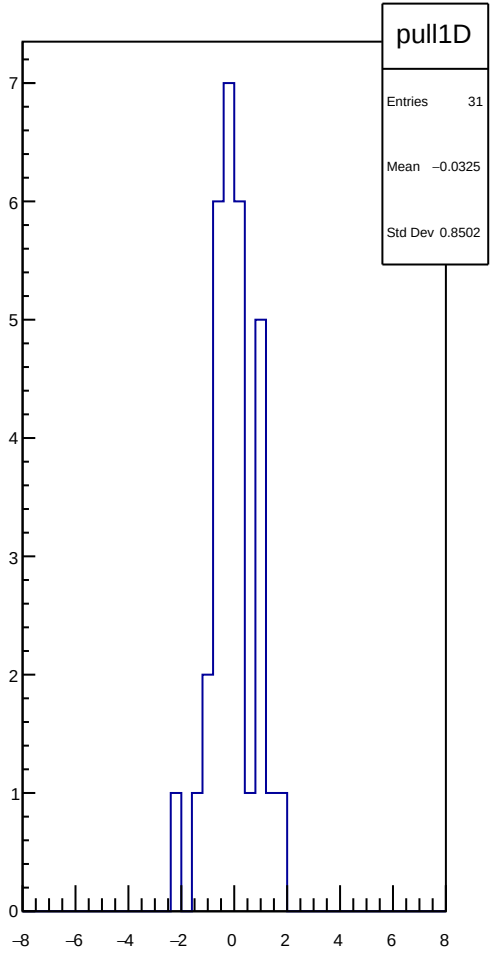

diff_bpm4ecY_rms vs run
χ² / ndf 5.663e+04 / 30
p0 8624 ± 11.75
18000
16000
14000
12000
10000
8000
6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

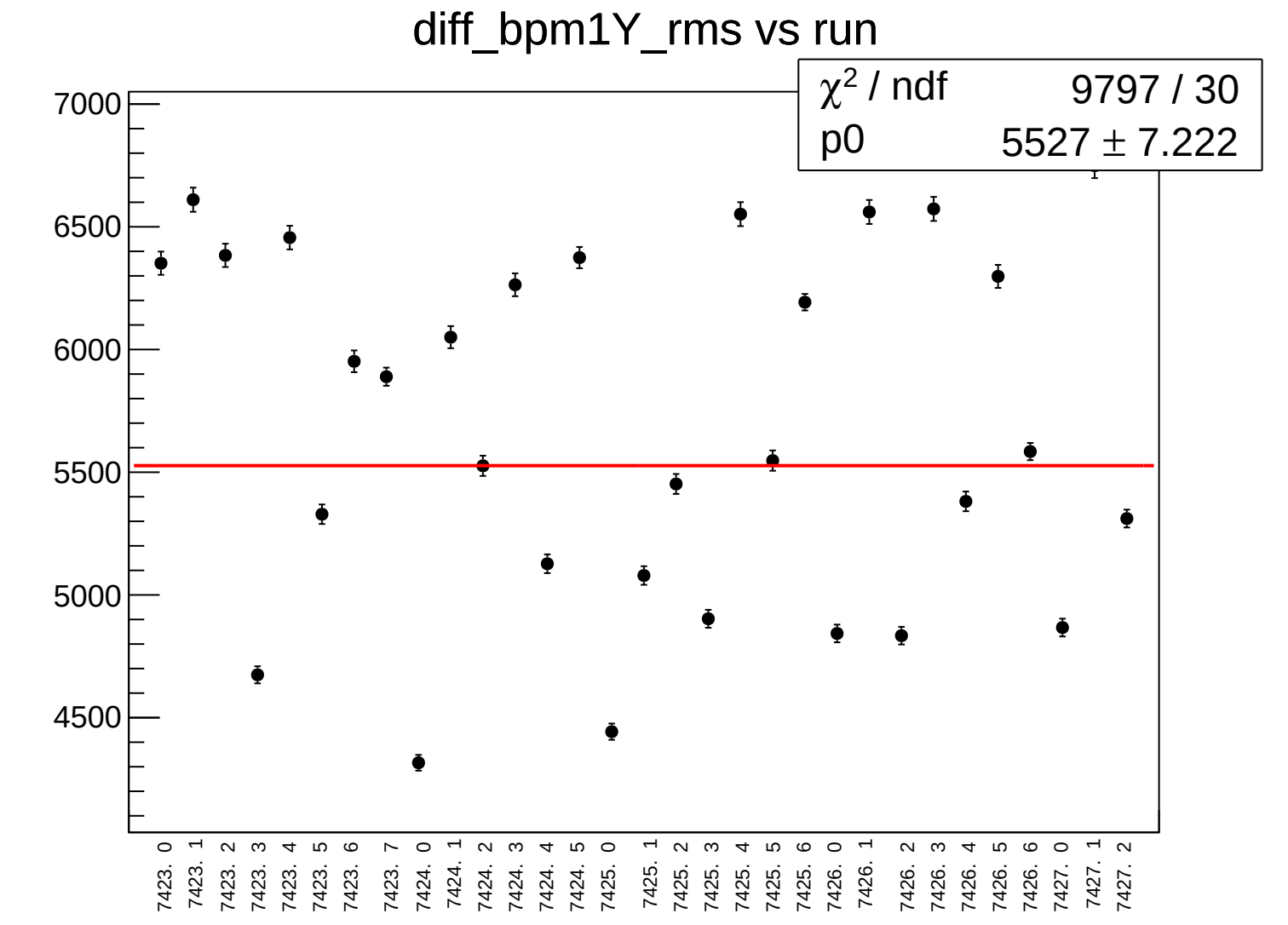

diff_bpm1X_mean vs run
χ² / ndf 41.62 / 30
p0 22.05 ± 14.04
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 114.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

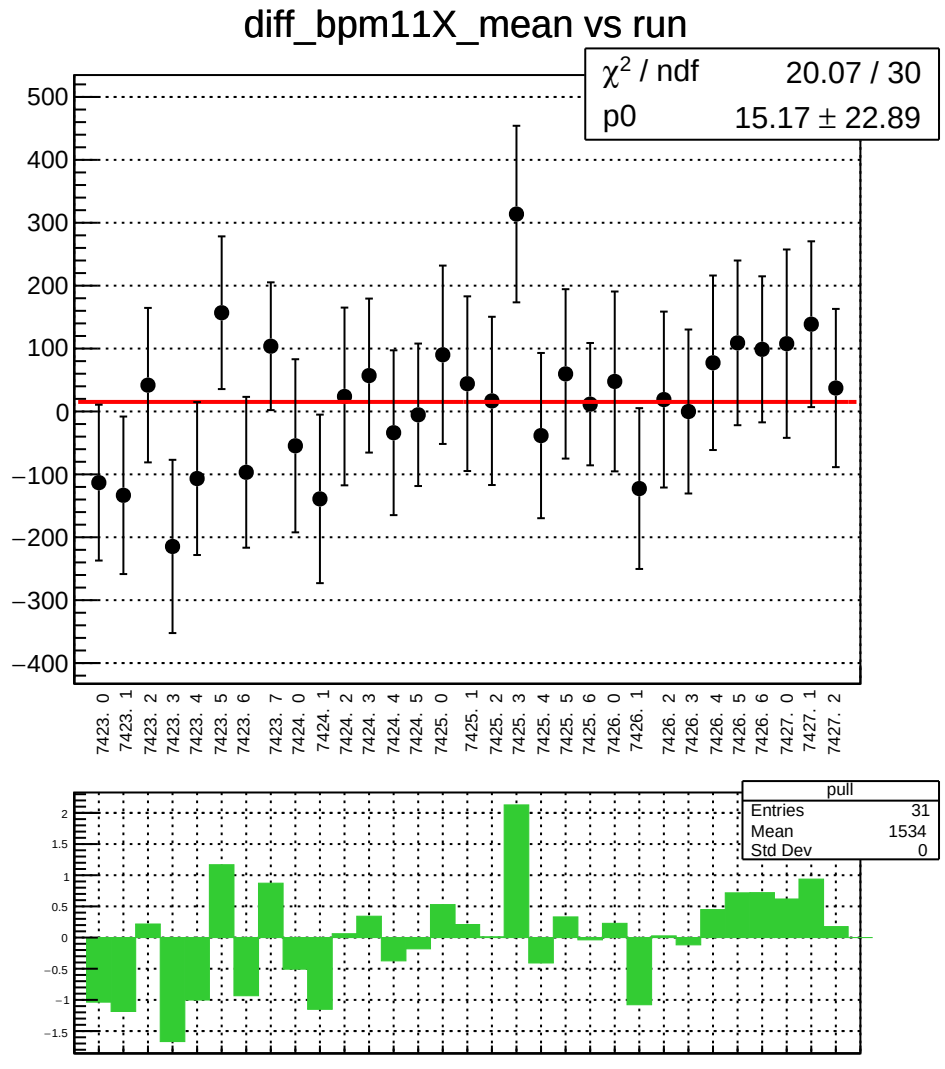

pull1D
Entries 31
Mean −0.0201
Std Dev 1.158
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

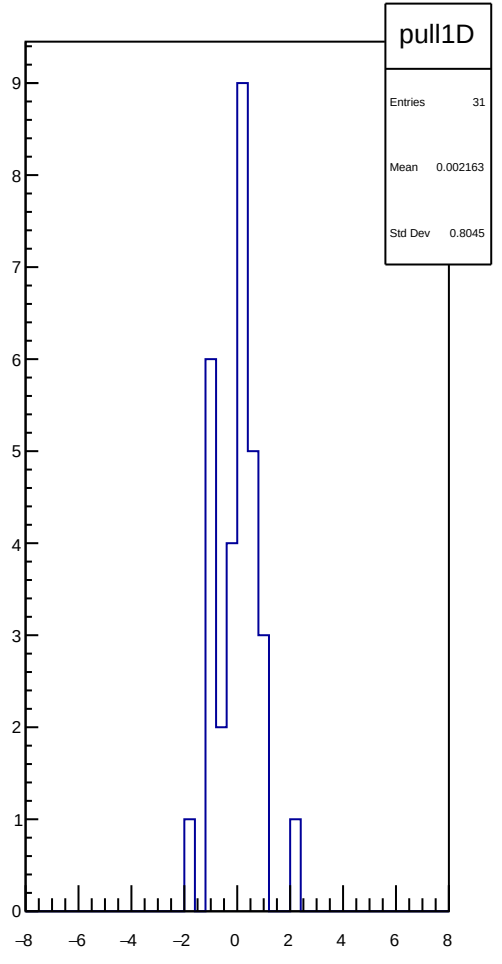

diff_bpm1X_rms vs run
χ² / ndf 1299 / 30
p0 7654 ± 9.93
8600
8400
8200
8000
7800
7600
7400
7200
7000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

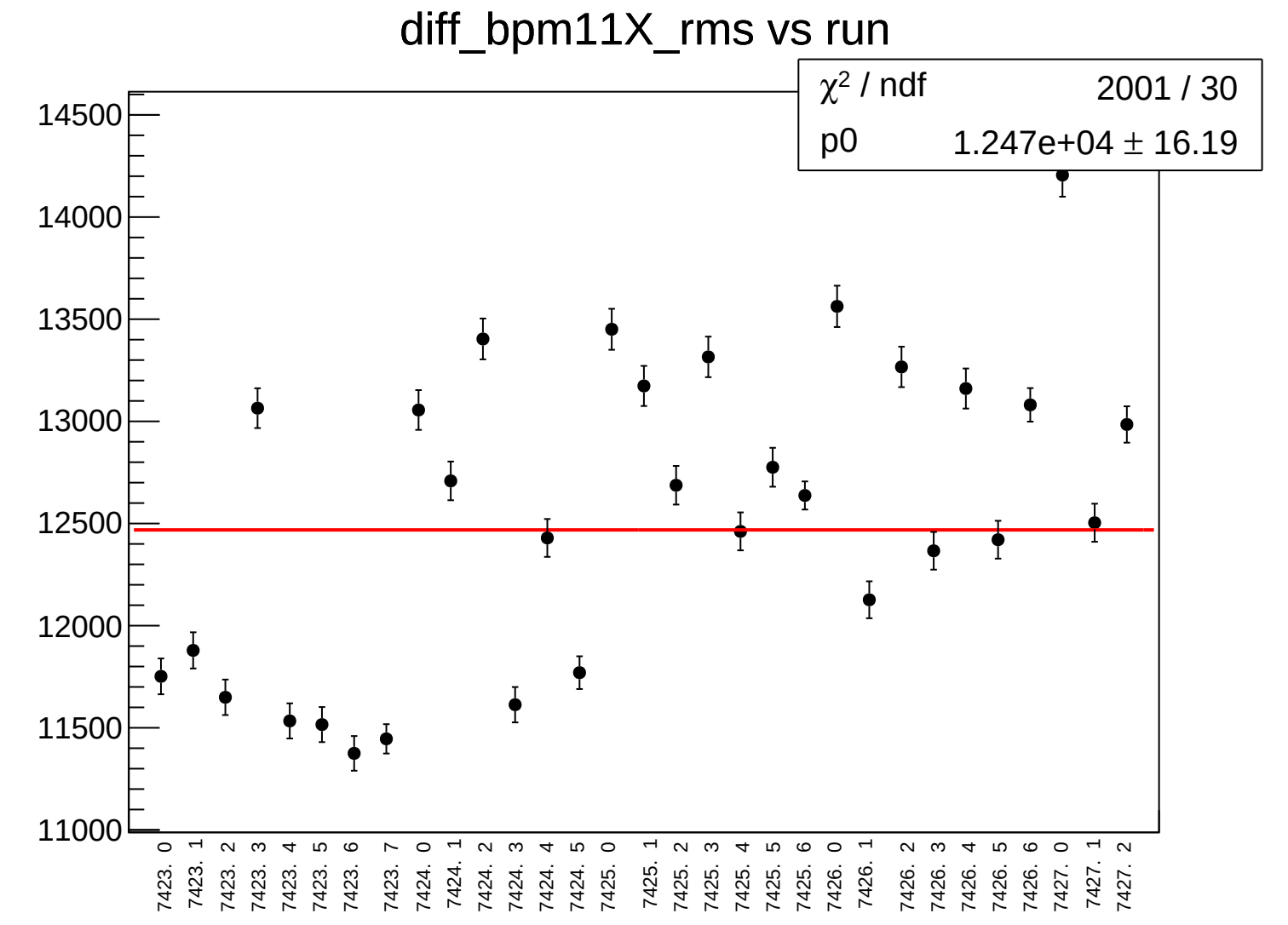

diff_bpm1Y_mean vs run
χ² / ndf 22.44 / 30
p0 1.184 ± 10.21
150
100
50
0
−50
−100
−150
−200
−250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −8.863
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

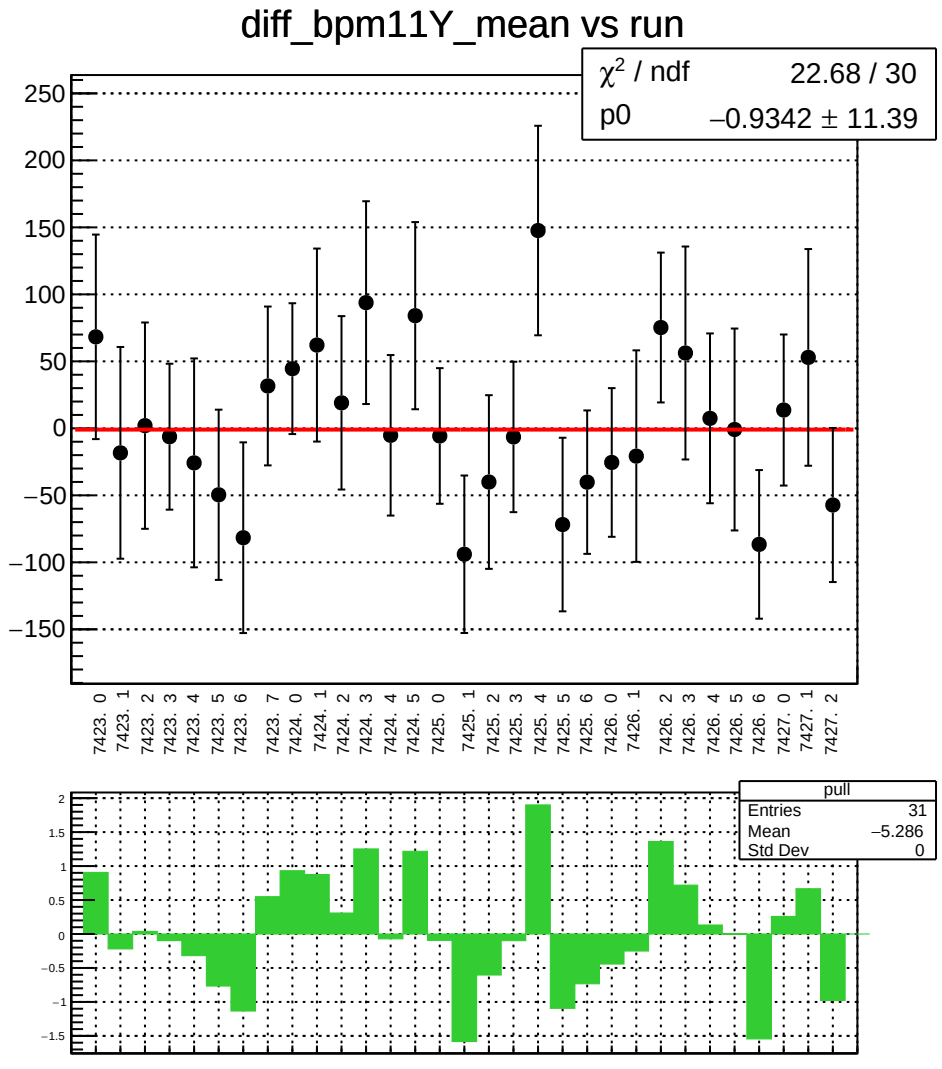

pull1D
Entries 31
Mean −0.0325
Std Dev 0.8502
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

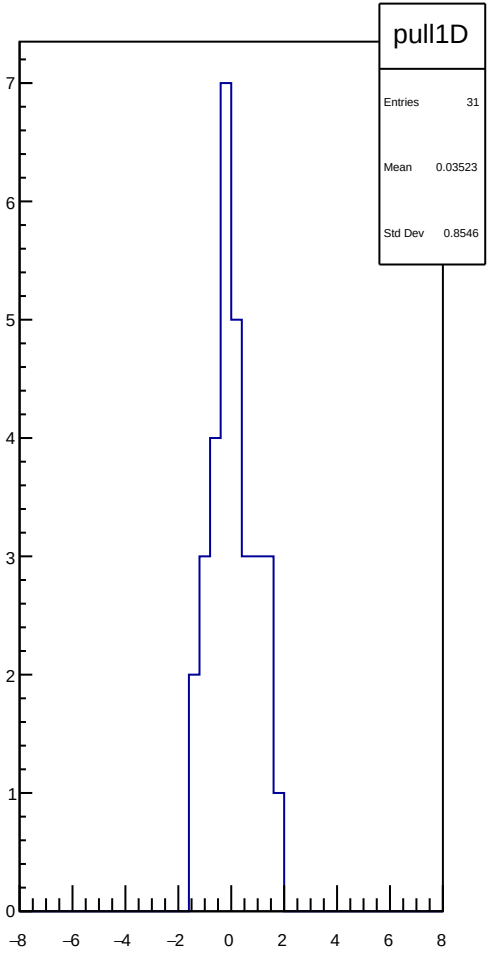

diff_bpm1Y_rms vs run
χ² / ndf 9797 / 30
p0 5527 ± 7.222
7000
6500
6000
5500
5000
4500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

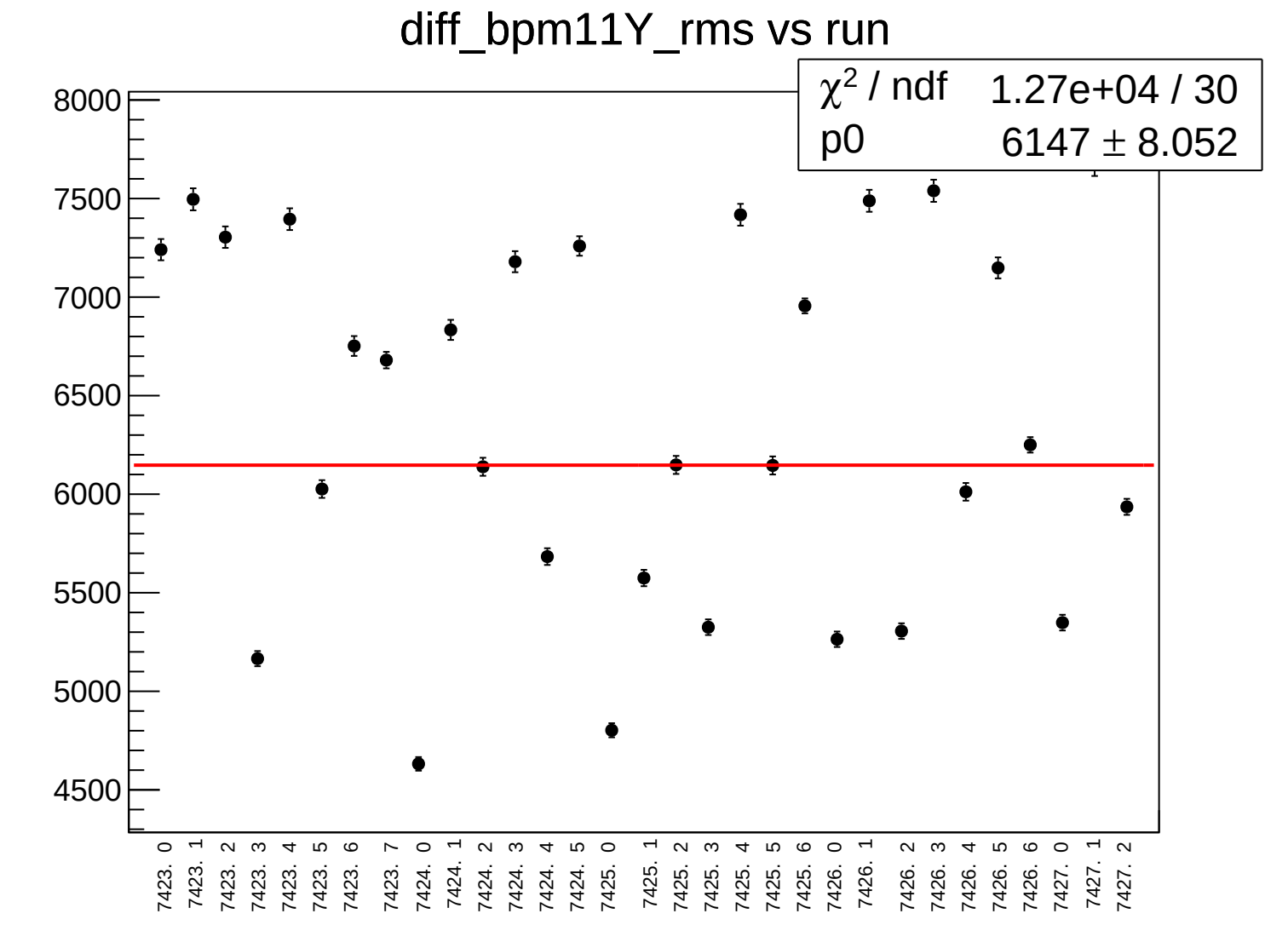

diff_bpm11X_mean vs run
χ² / ndf 20.07 / 30
p0 15.17 ± 22.89
500
400
300
200
100
0
−100
−200
−300
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1534
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

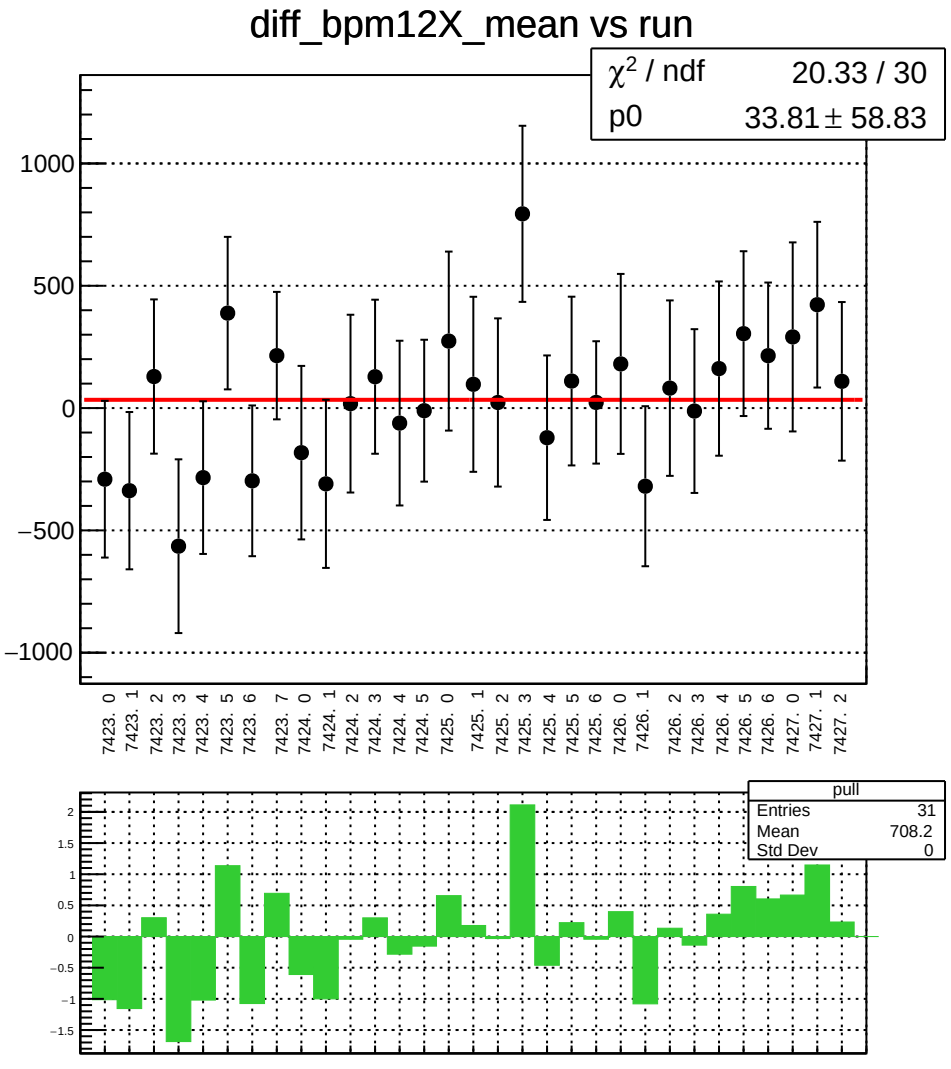

pull1D
Entries 31
Mean 0.002163
Std Dev 0.8045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

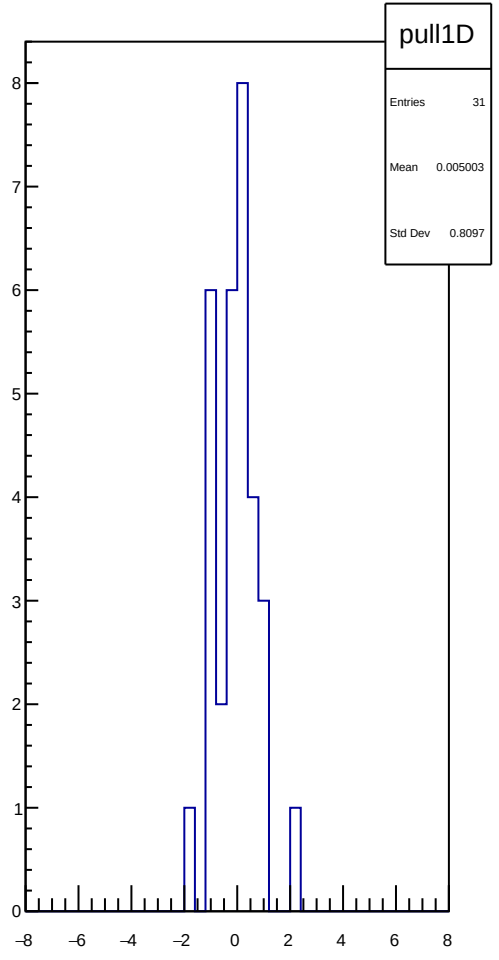

diff_bpm11X_rms vs run
χ² / ndf 2001 / 30
p0 1.247e+04 ± 16.19
14500
14000
13500
13000
12500
12000
11500
11000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

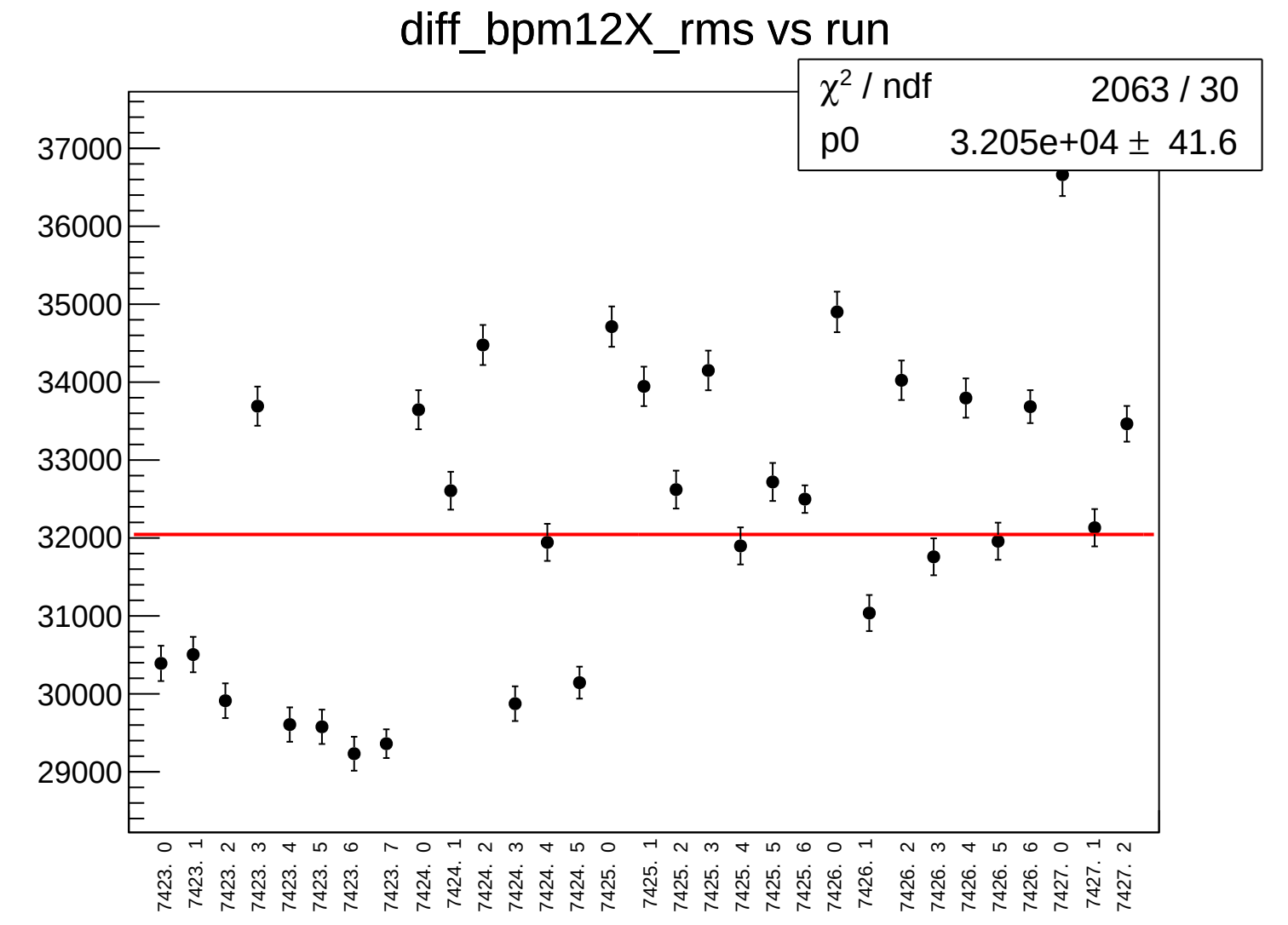

diff_bpm11Y_mean vs run
χ² / ndf 22.68 / 30
p0 −0.9342 ± 11.39
250
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −5.286
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

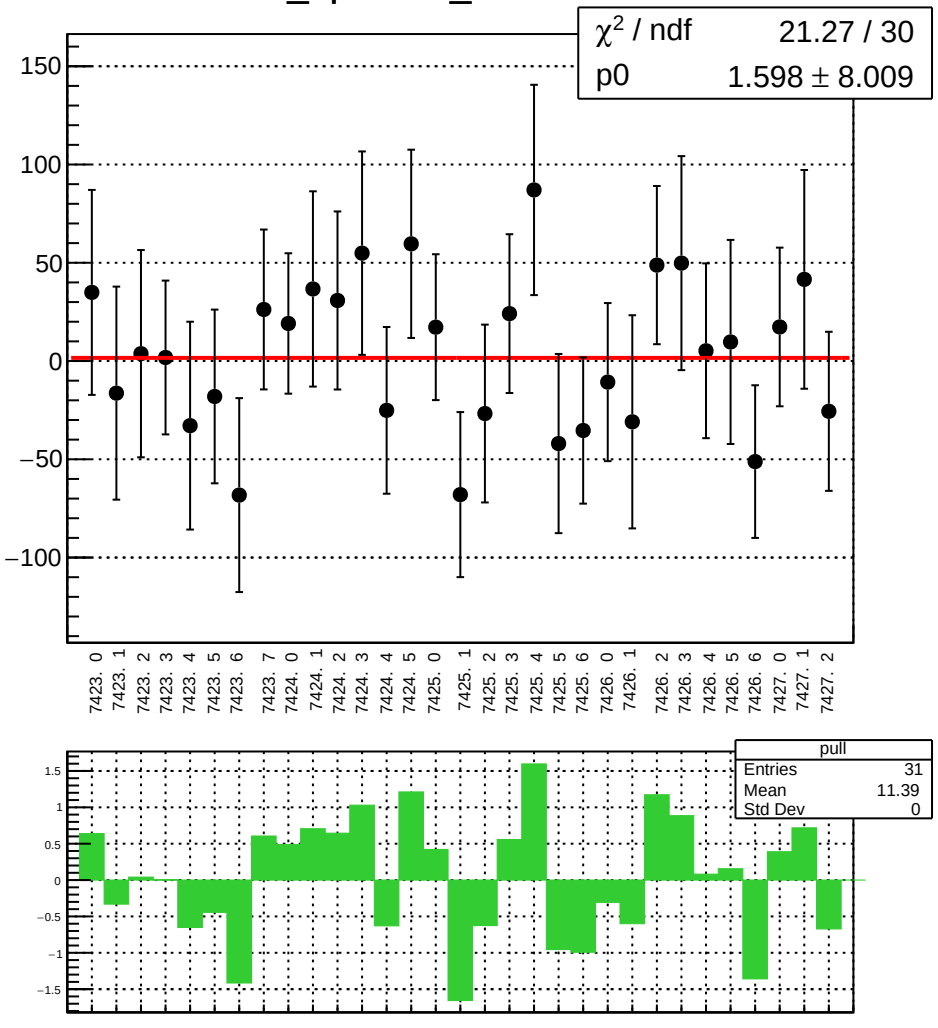

pull1D
Entries 31
Mean 0.03523
Std Dev 0.8546
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

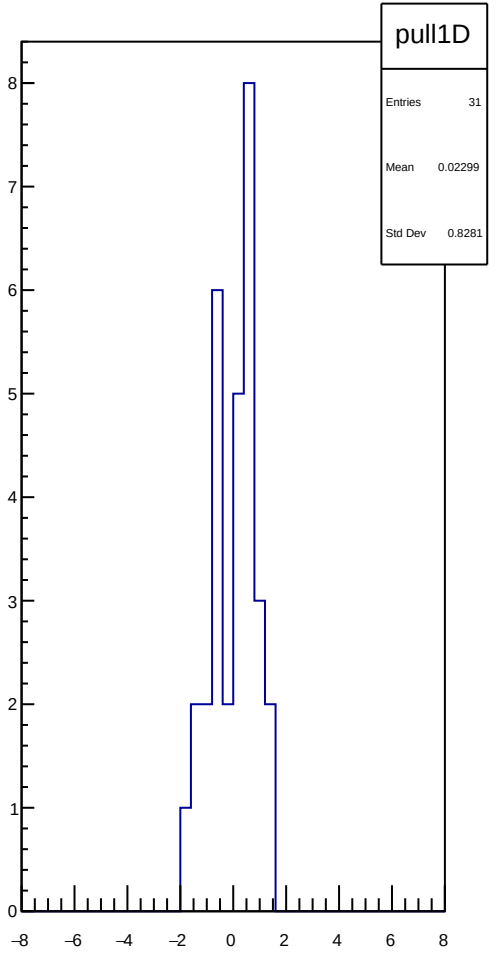

diff_bpm11Y_rms vs run
χ² / ndf 1.27e+04 / 30
p0 6147 ± 8.052
8000
7500
7000
6500
6000
5500
5000
4500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

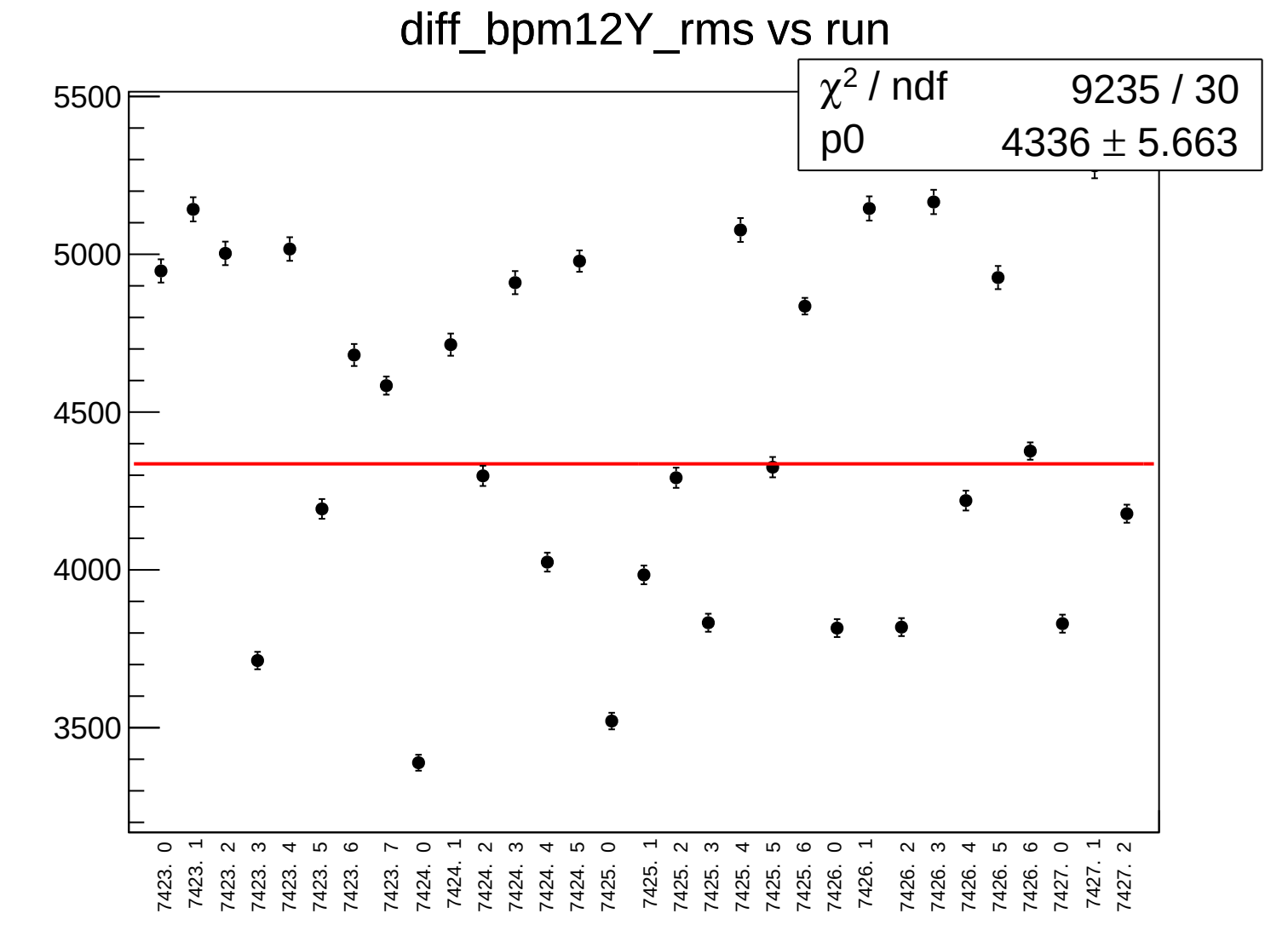

diff_bpm12X_mean vs run
χ² / ndf 20.33 / 30
p0 33.81 ± 58.83
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 708.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

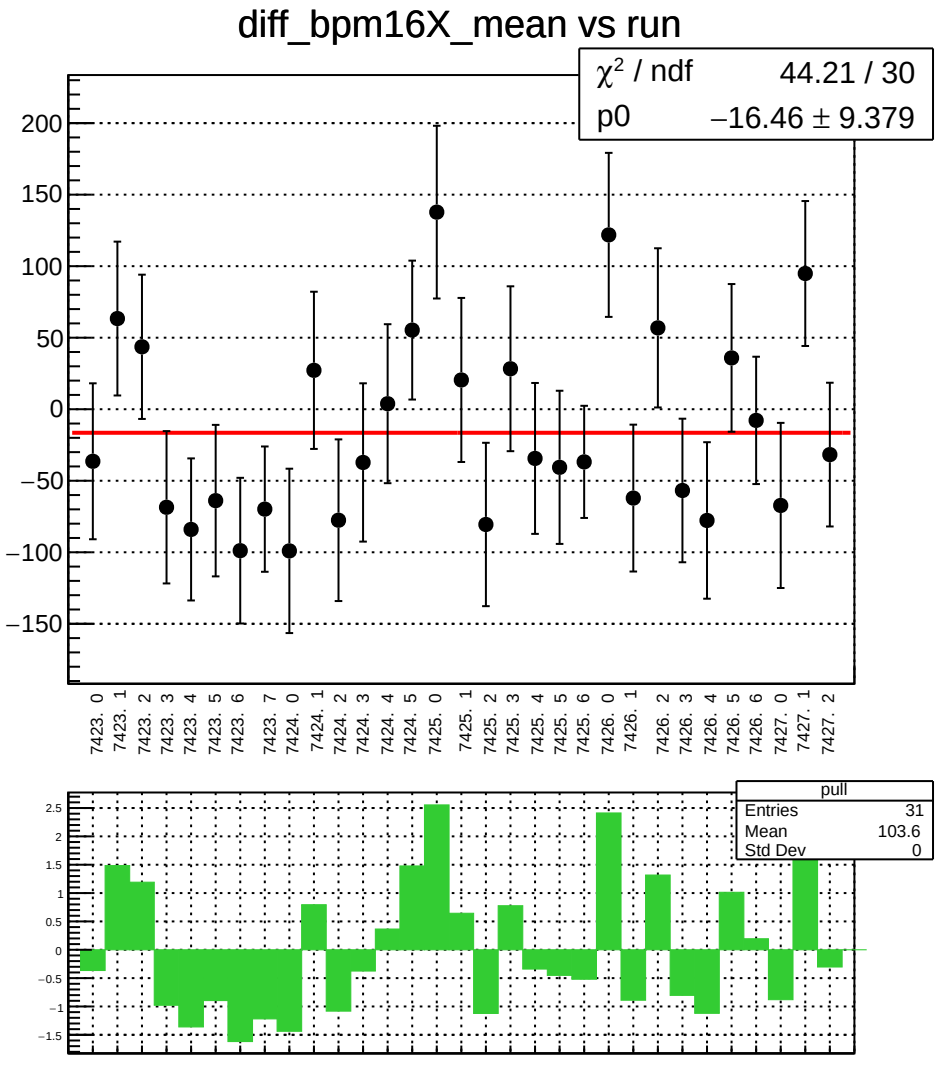

pull1D
Entries 31
Mean 0.005003
Std Dev 0.8097
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

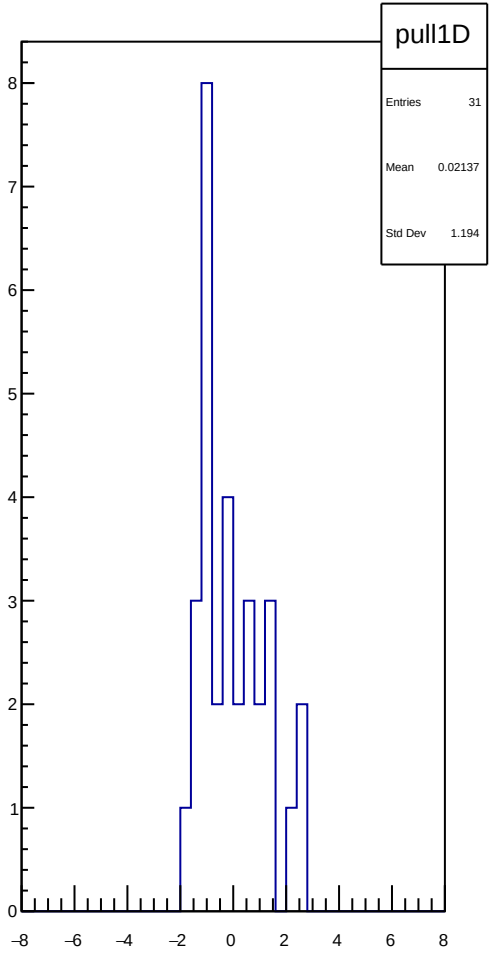

diff_bpm12X_rms vs run
χ² / ndf 2063 / 30
p0 3.205e+04 ± 41.6
37000
36000
35000
34000
33000
32000
31000
30000
29000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

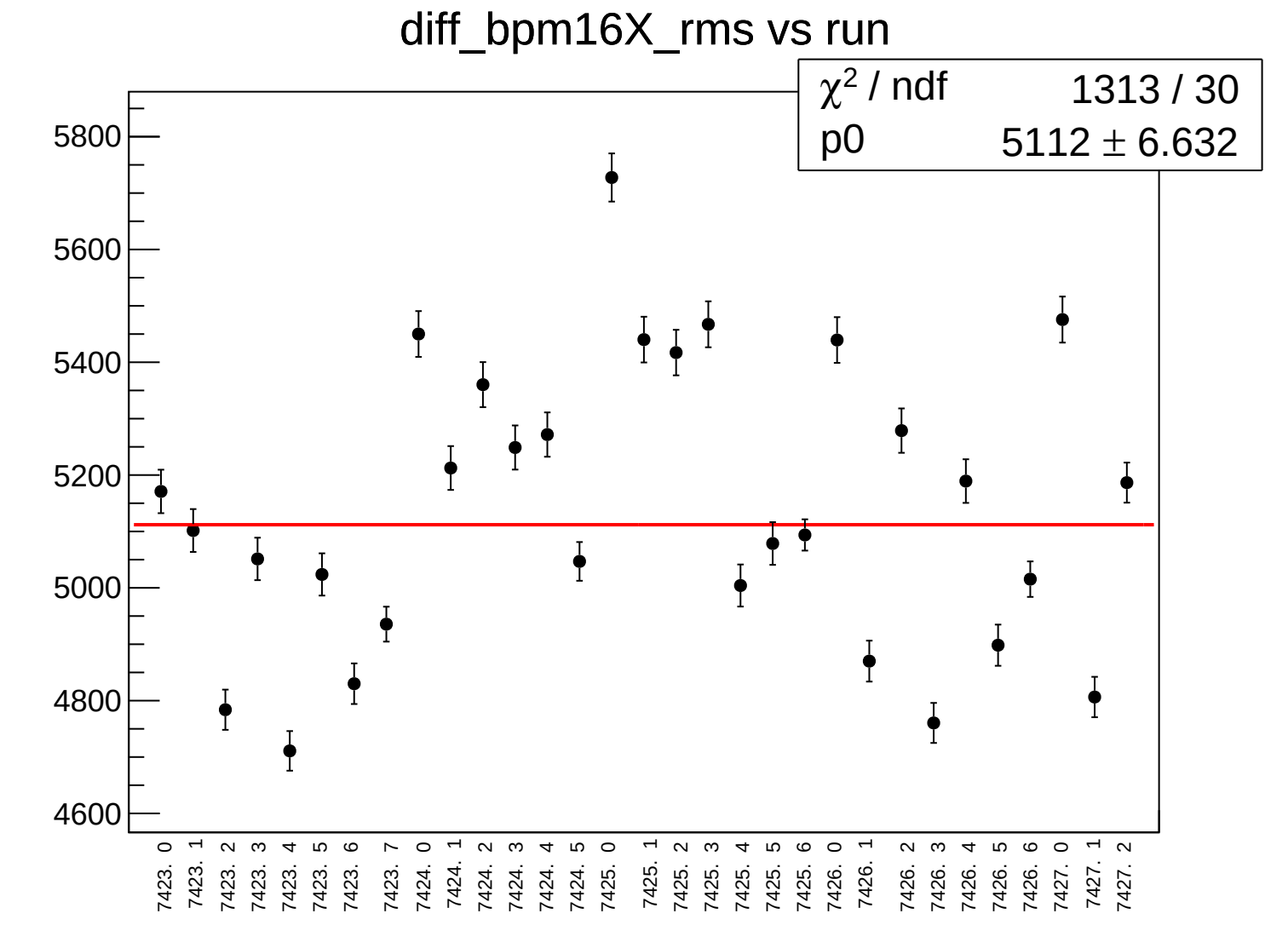

diff_bpm12Y_mean vs run
χ² / ndf 21.27 / 30
p0 1.598 ± 8.009
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

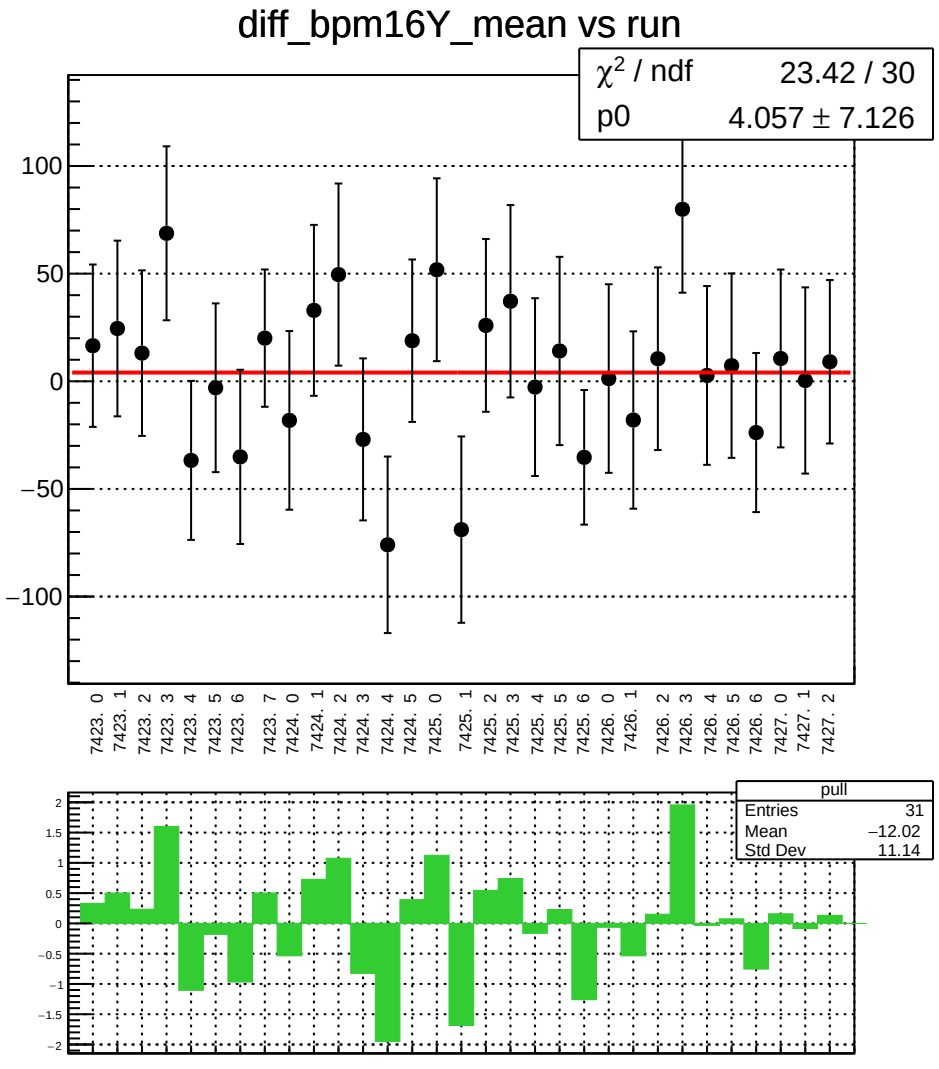

pull1D
Entries 31
Mean 0.02299
Std Dev 0.8281
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

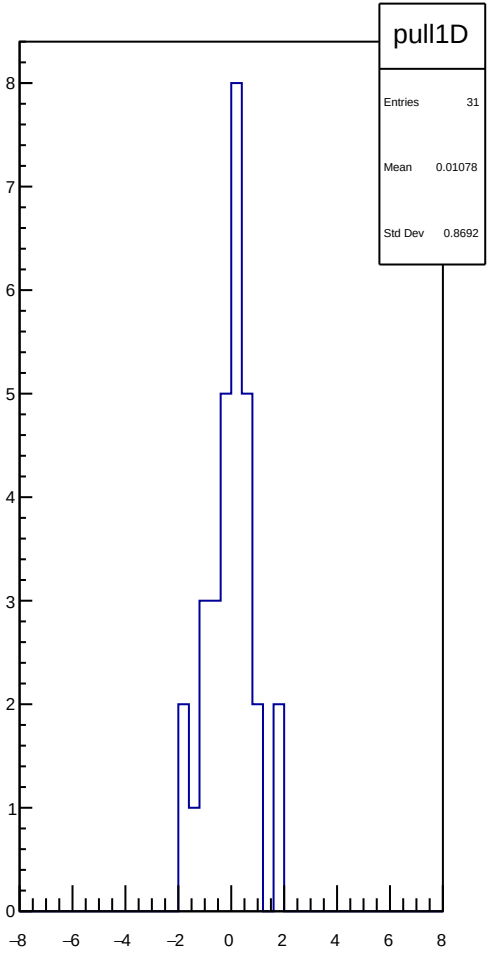

diff_bpm12Y_rms vs run
χ^2 / ndf 9235 / 30
p0 4336 ± 5.663
5500
5000
4500
4000
3500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

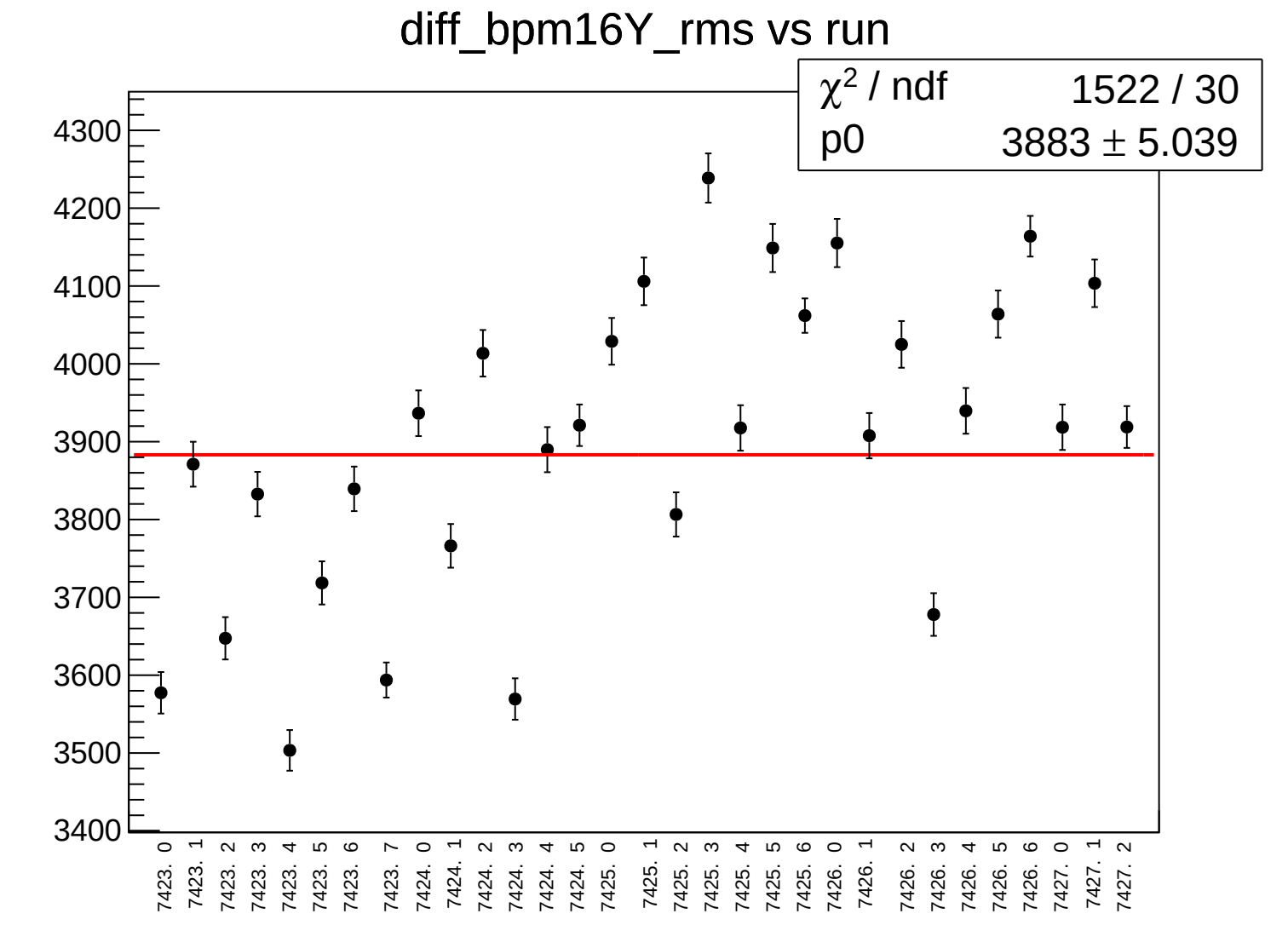

diff_bpm16X_mean vs run
χ² / ndf 44.21 / 30
p0 −16.46 ± 9.379
200
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 103.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

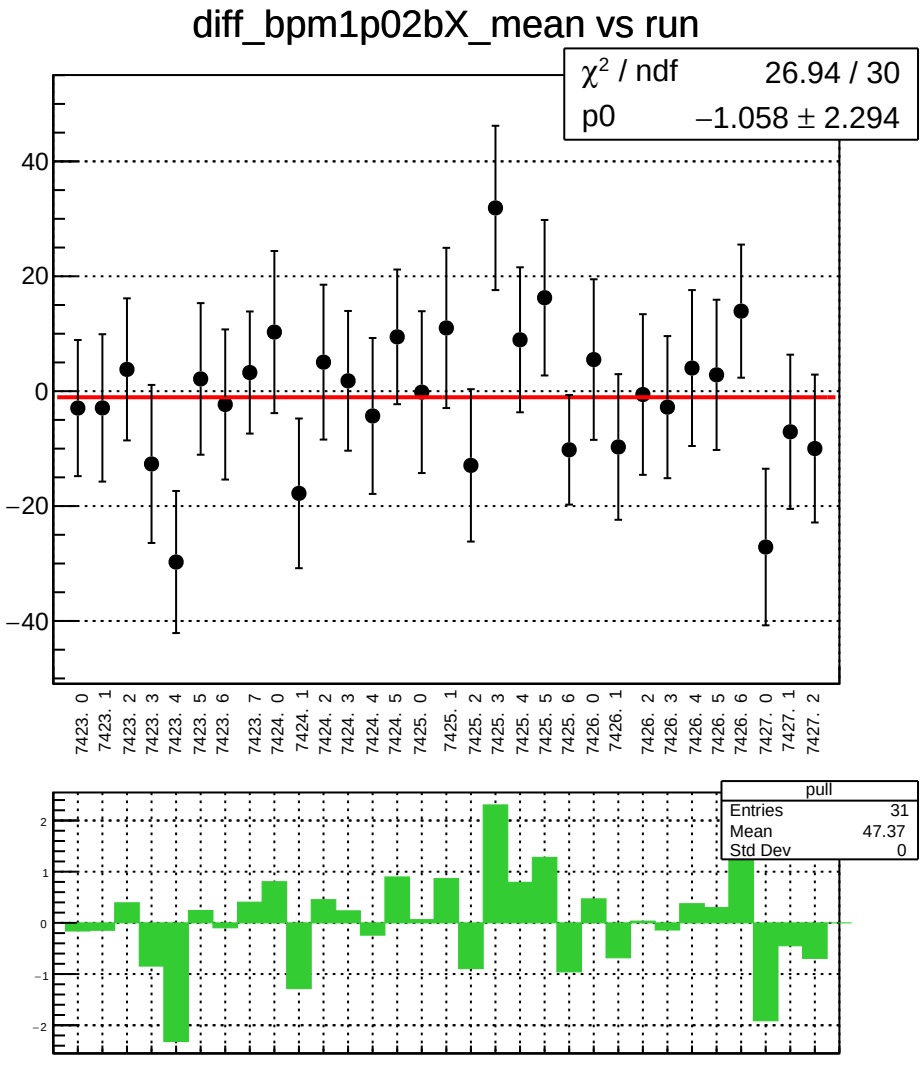

pull1D
Entries 31
Mean 0.02137
Std Dev 1.194
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

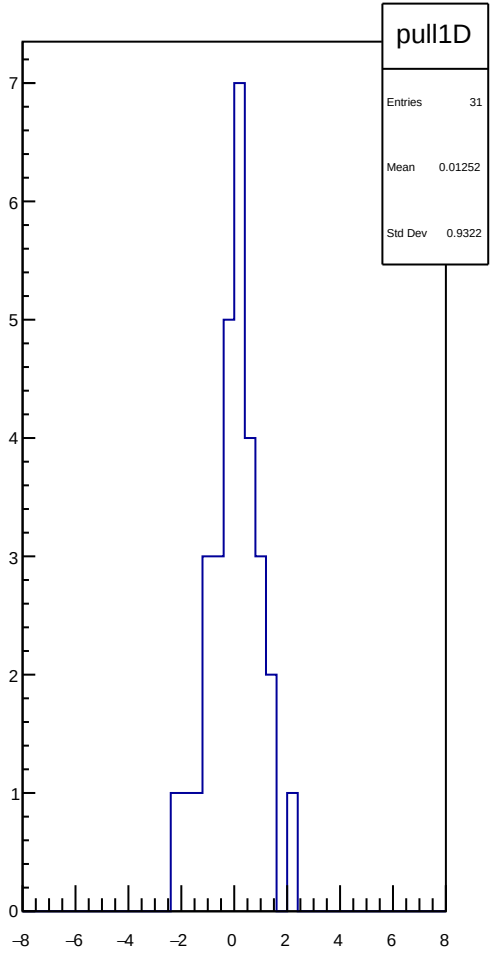

diff_bpm16X_rms vs run
χ^2 / ndf 1313 / 30
p0 5112 ± 6.632
5800
5600
5400
5200
5000
4800
4600
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

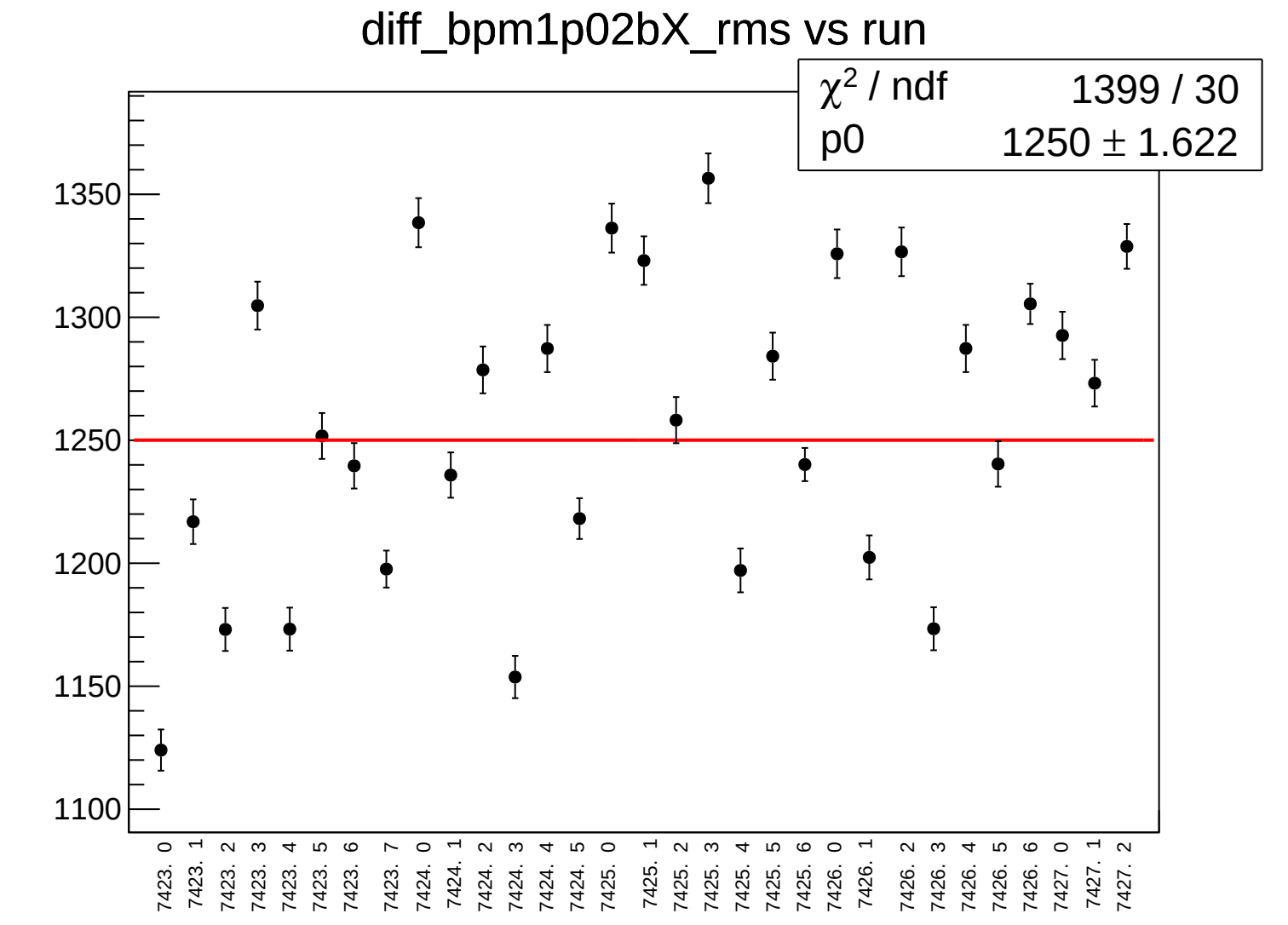

diff_bpm16Y_mean vs run
χ² / ndf 23.42 / 30
p0 4.057 ± 7.126
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −12.02
Std Dev 11.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

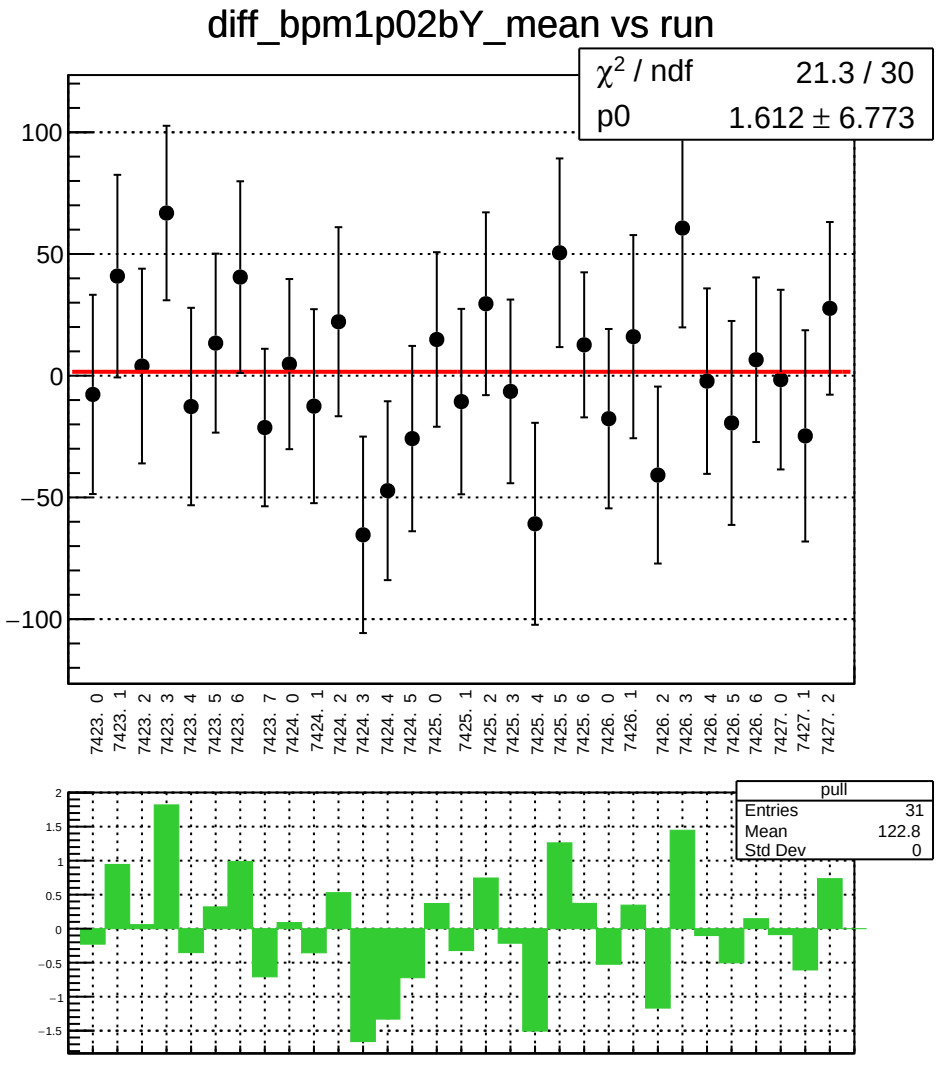

pull1D
Entries 31
Mean 0.01078
Std Dev 0.8692
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

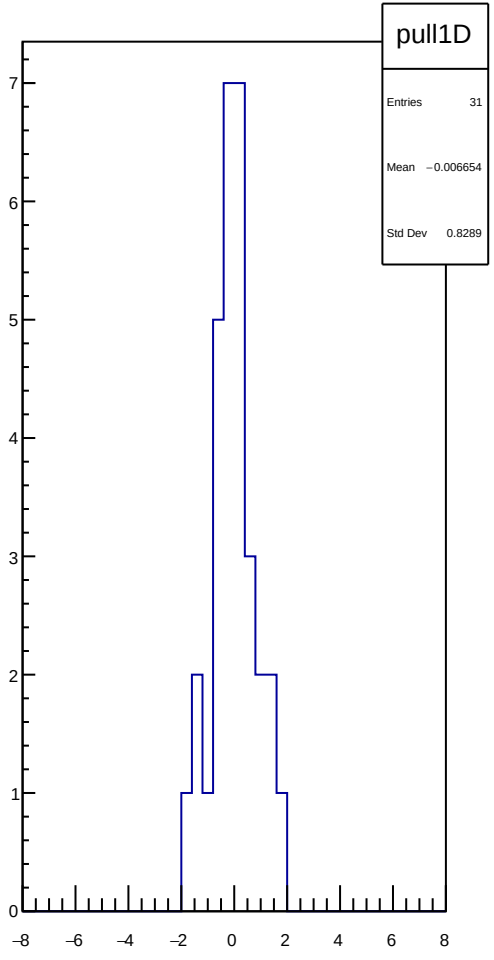

diff_bpm16Y_rms vs run
χ² / ndf 1522 / 30
p0 3883 ± 5.039
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

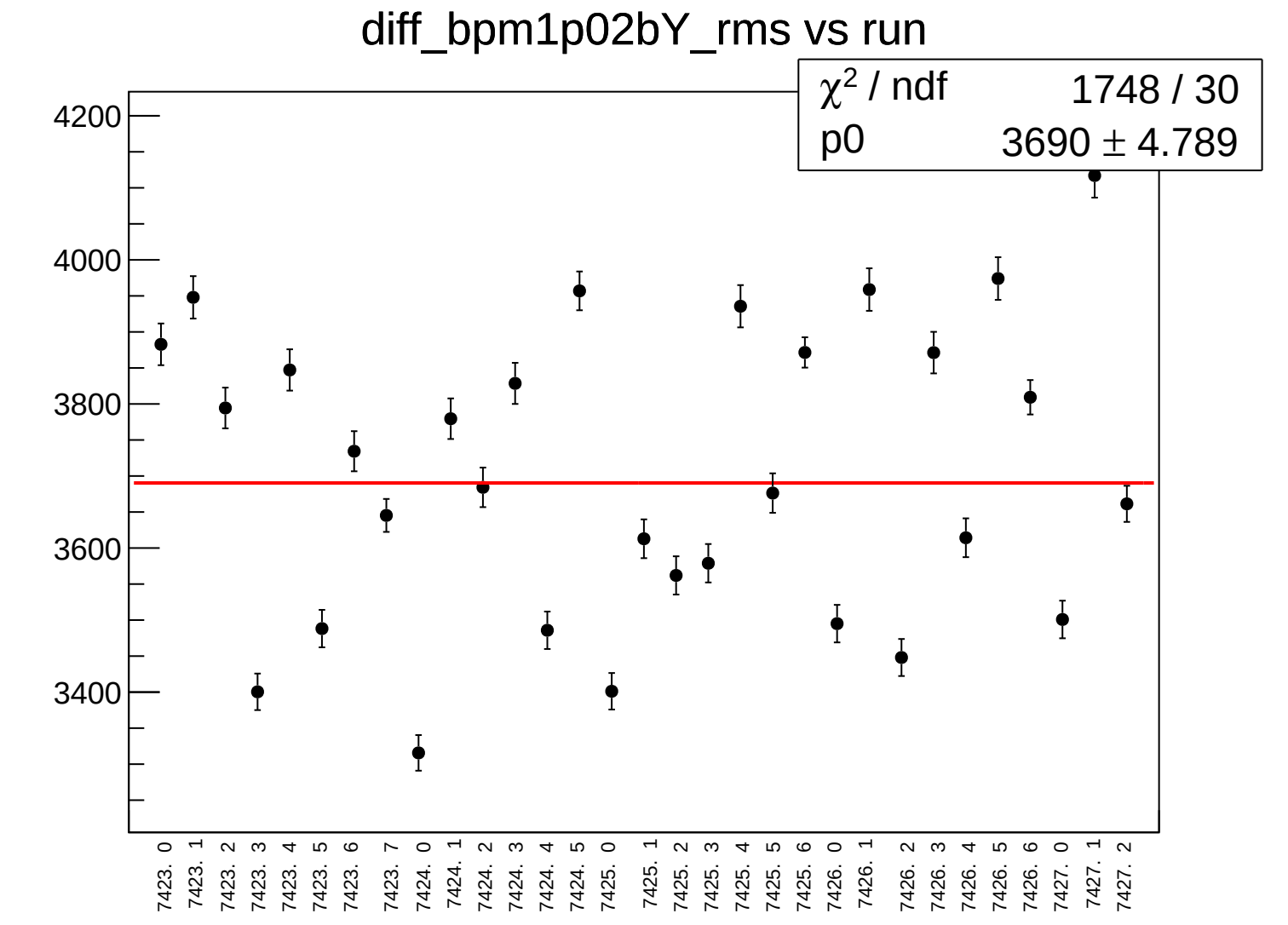

diff_bpm1p02bX_mean vs run
χ² / ndf 26.94 / 30
p0 −1.058 ± 2.294
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 47.37
Std Dev 0
2
1
0
−1
−2

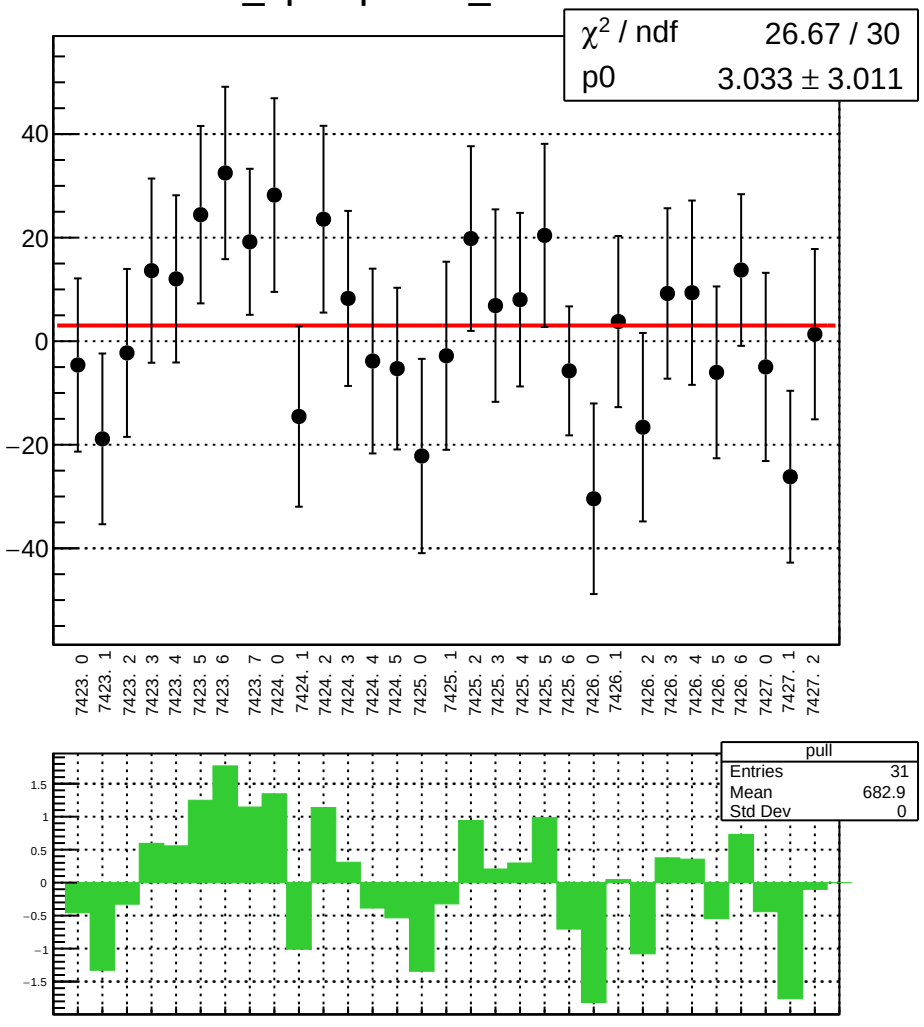

pull1D
Entries 31
Mean 0.01252
Std Dev 0.9322
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

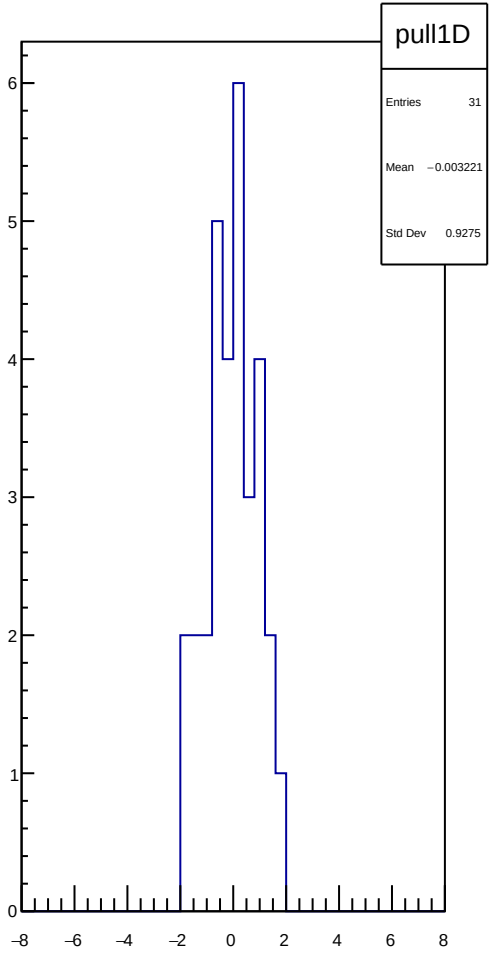

diff_bpm1p02bX_rms vs run
χ² / ndf 1399 / 30
p0 1250 ± 1.622
1350
1300
1250
1200
1150
1100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

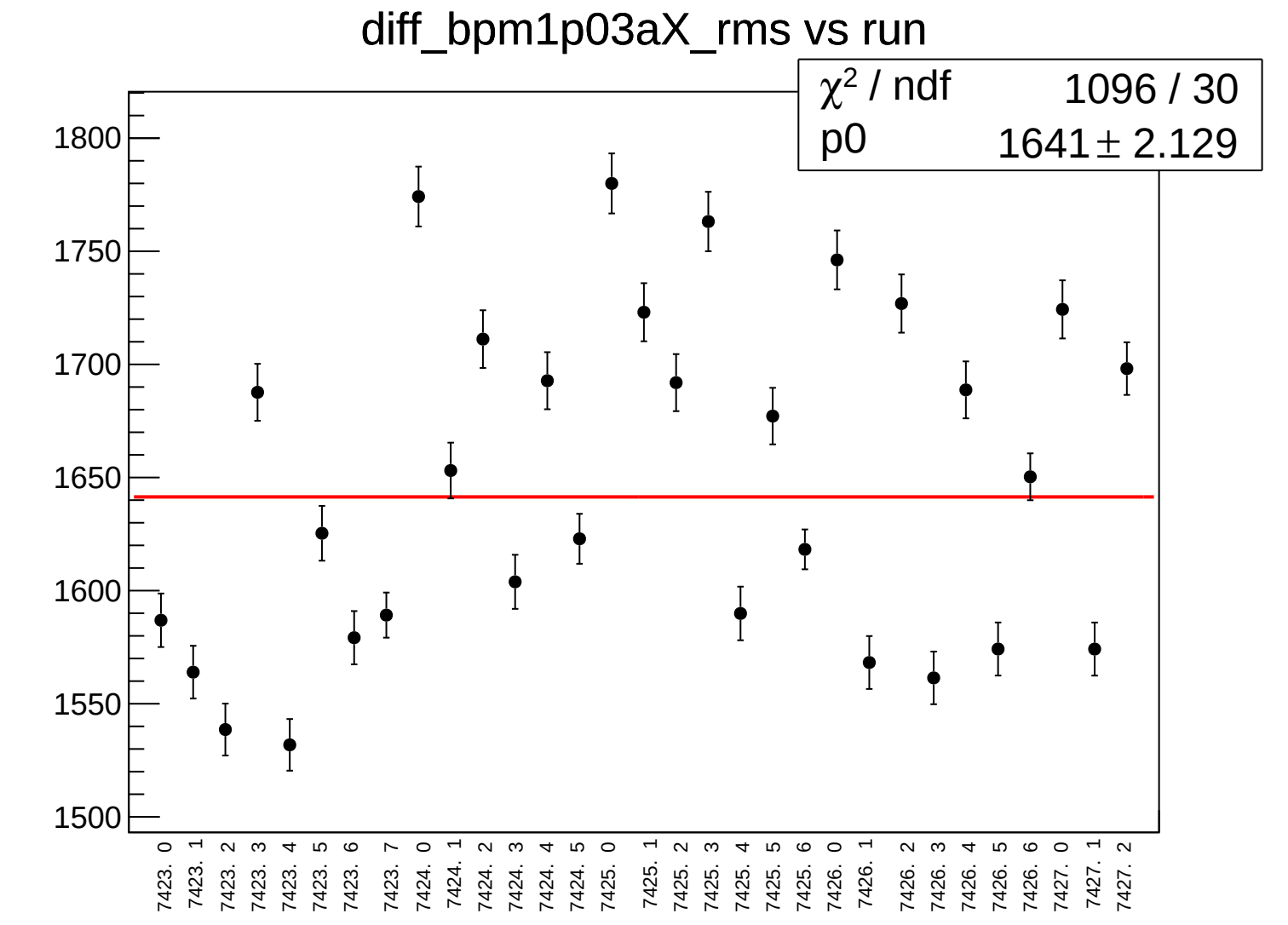

diff_bpm1p02bY_mean vs run
χ² / ndf 21.3 / 30
p0 1.612 ± 6.773
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 122.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

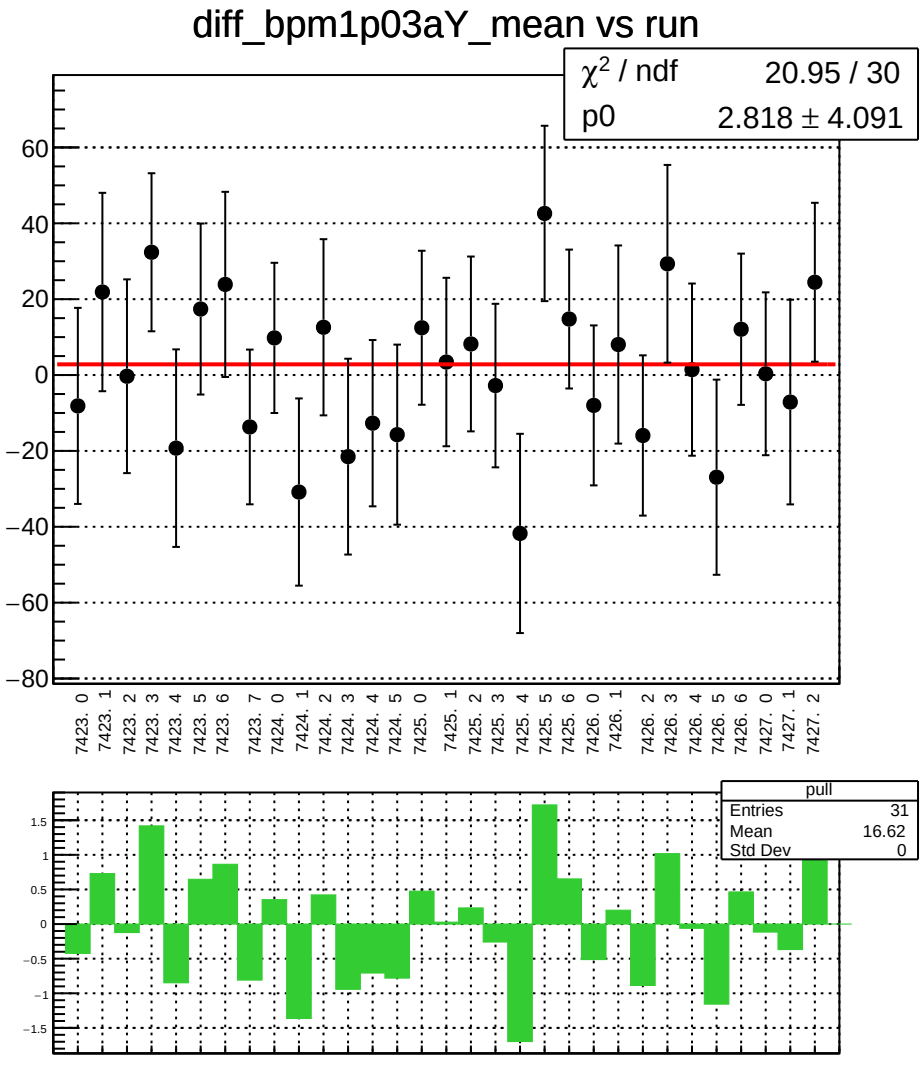

pull1D
Entries 31
Mean −0.006654
Std Dev 0.8289
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

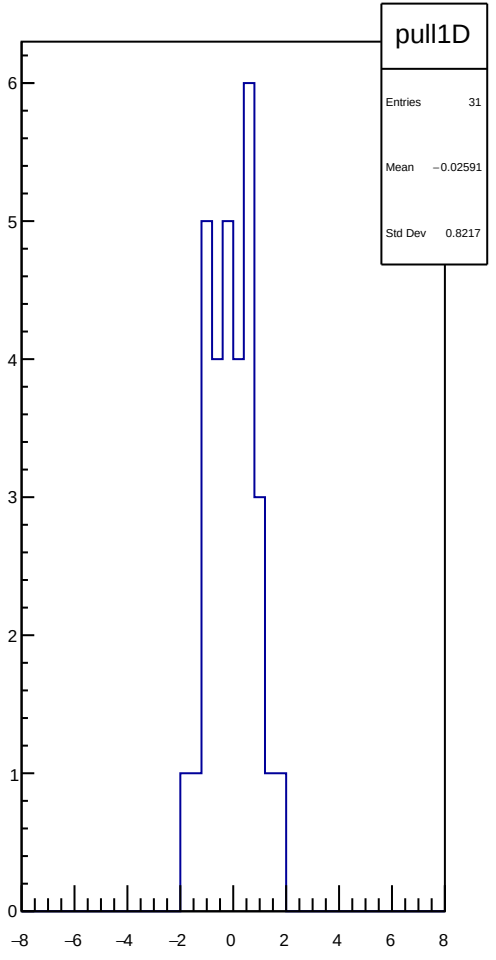

diff_bpm1p02bY_rms vs run
χ² / ndf 1748 / 30
p0 3690 ± 4.789
4200
4000
3800
3600
3400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

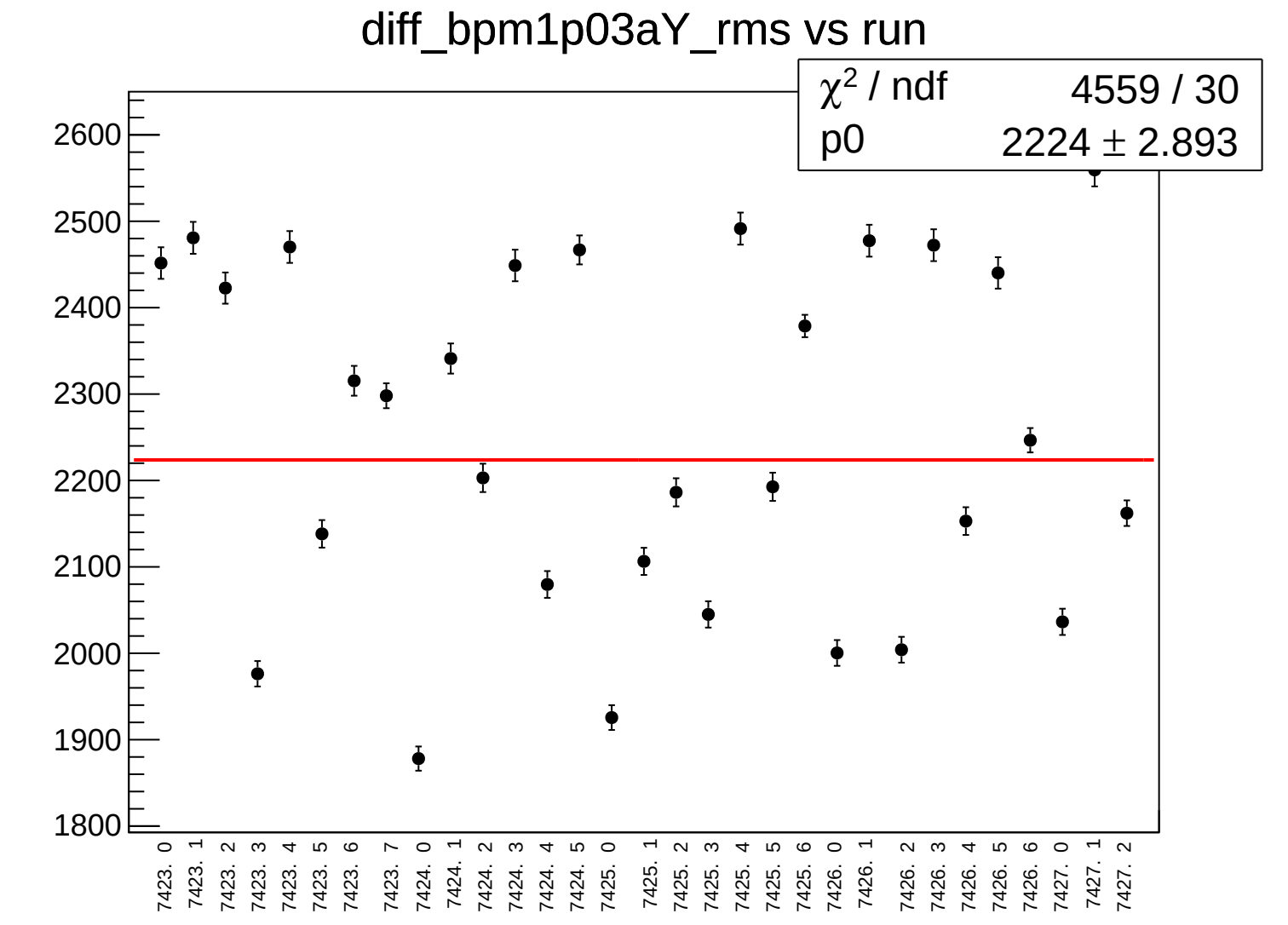

diff_bpm1p03aX_mean vs run
χ² / ndf 26.67 / 30
p0 3.033 ± 3.011
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 682.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

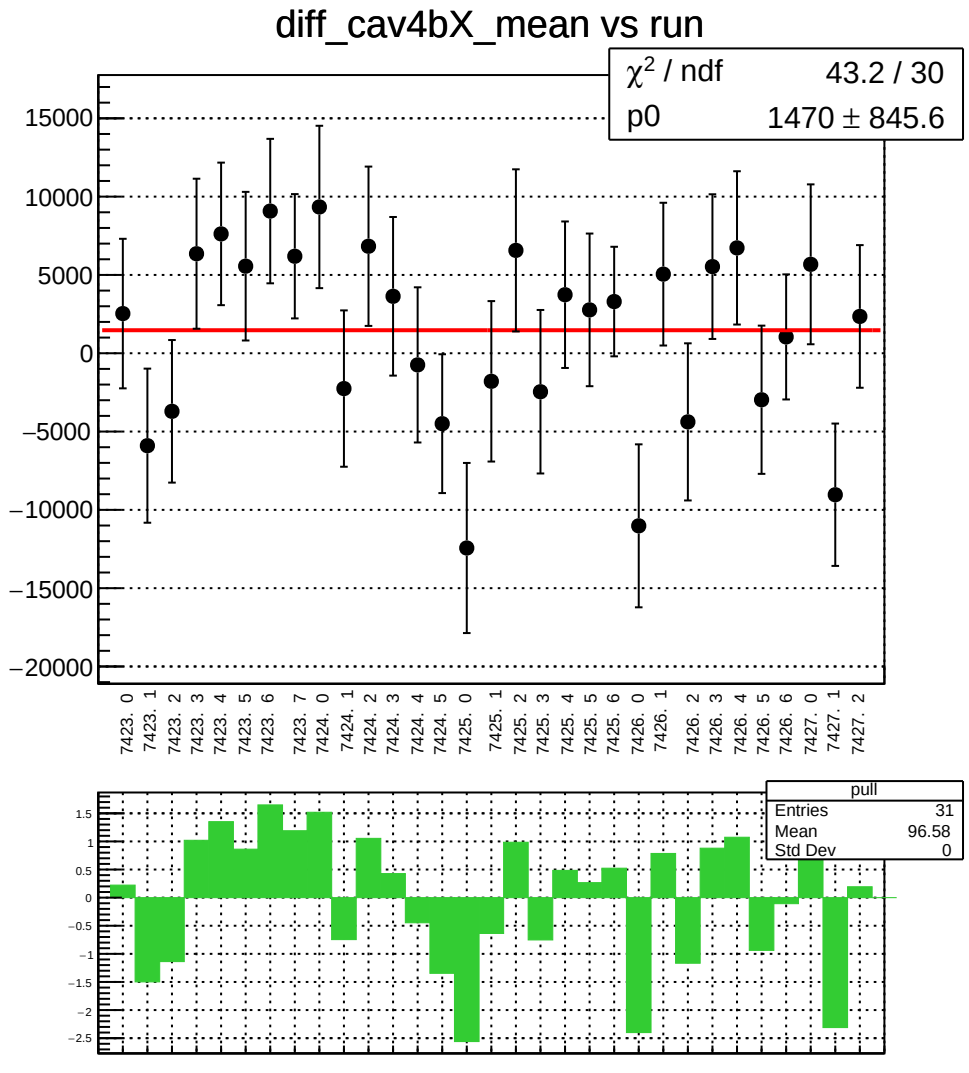

pull1D
Entries 31
Mean −0.003221
Std Dev 0.9275
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

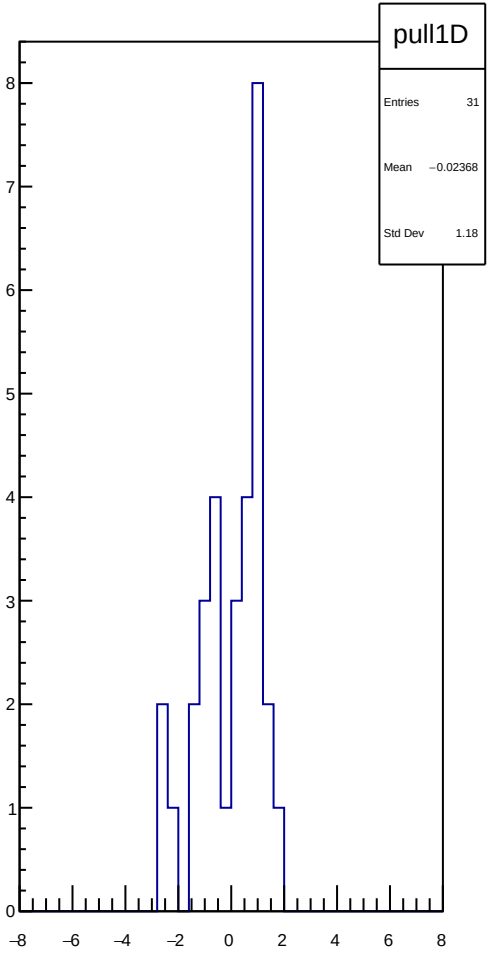

diff_bpm1p03aX_rms vs run
χ² / ndf 1096 / 30
p0 1641 ± 2.129
1800
1750
1700
1650
1600
1550
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

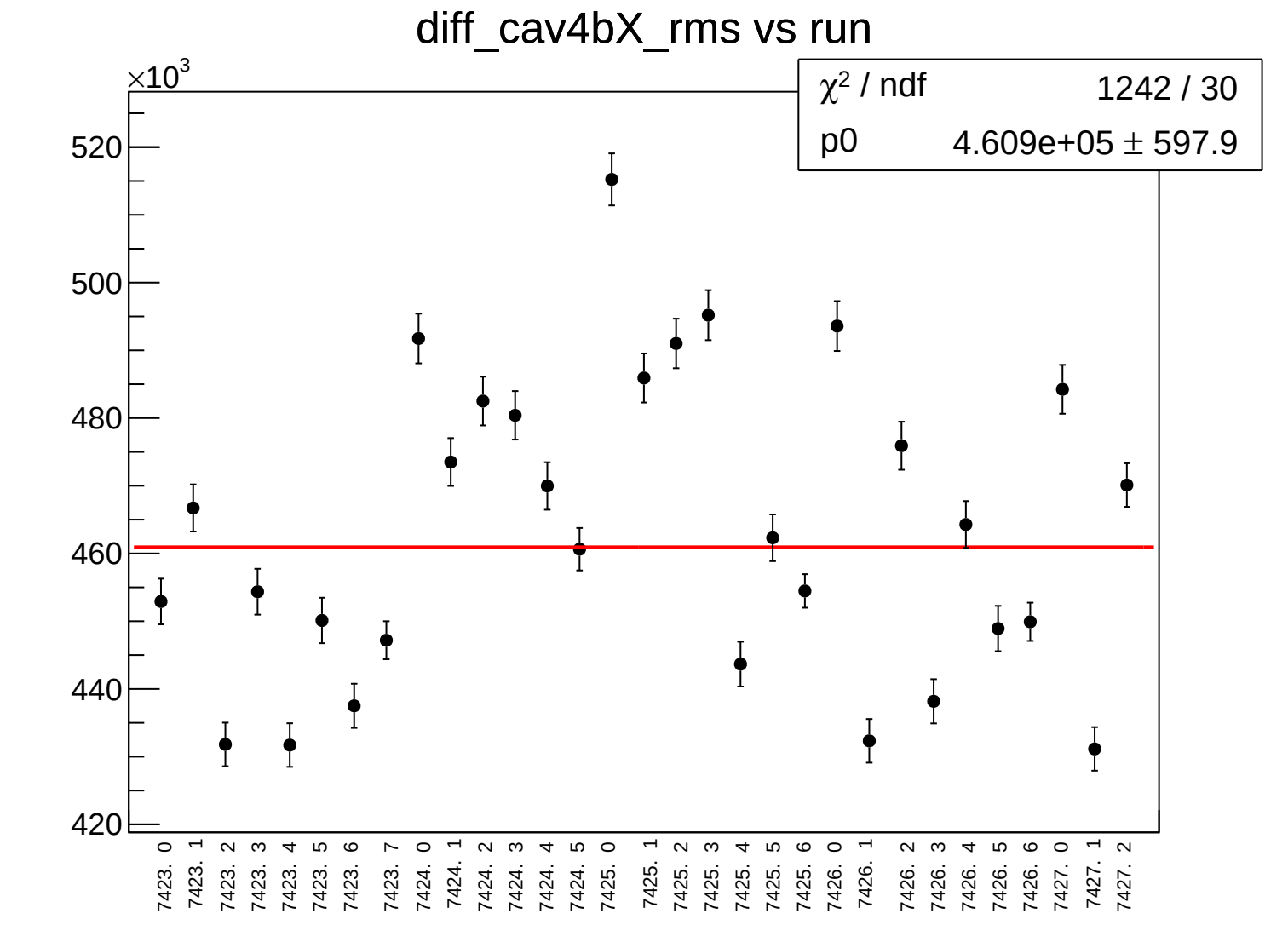

diff_bpm1p03aY_mean vs run
χ² / ndf 20.95 / 30
p0 2.818 ± 4.091
60
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

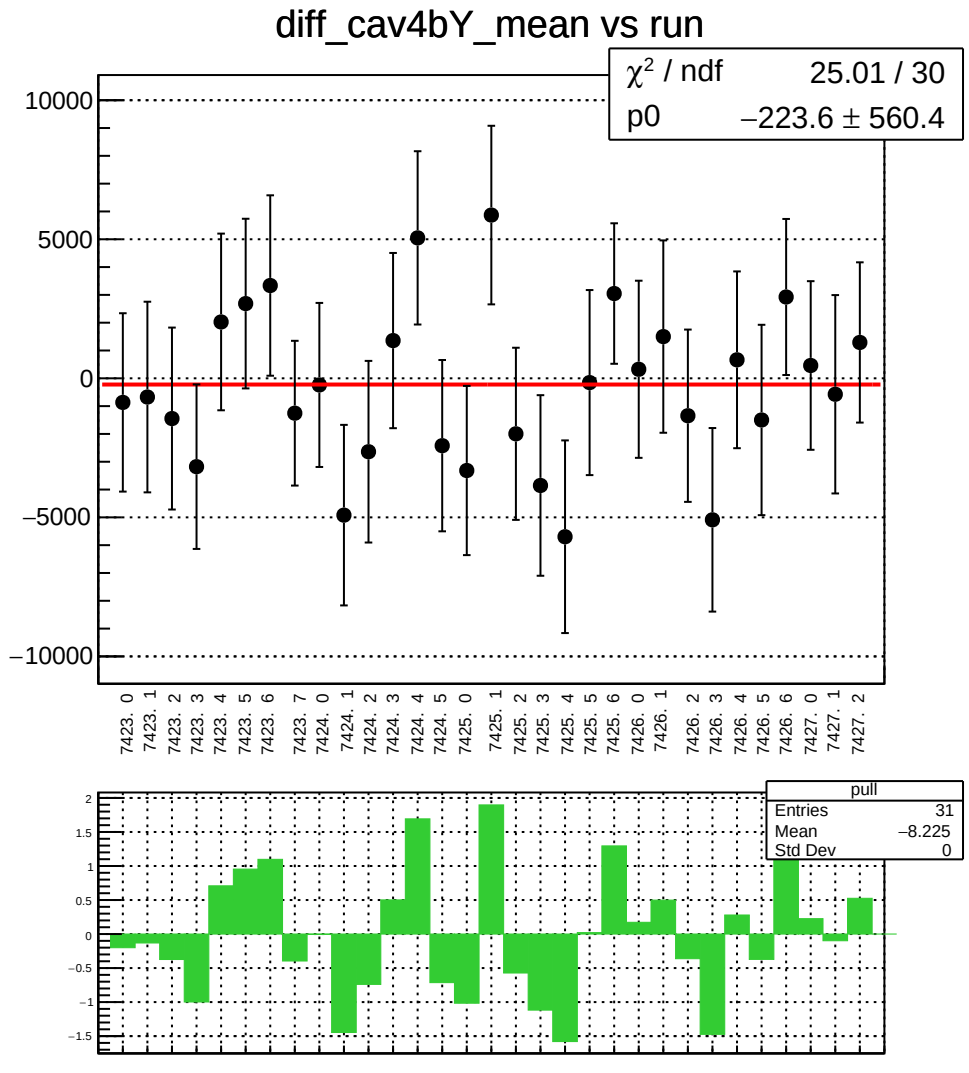

pull1D
Entries 31
Mean −0.02591
Std Dev 0.8217
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

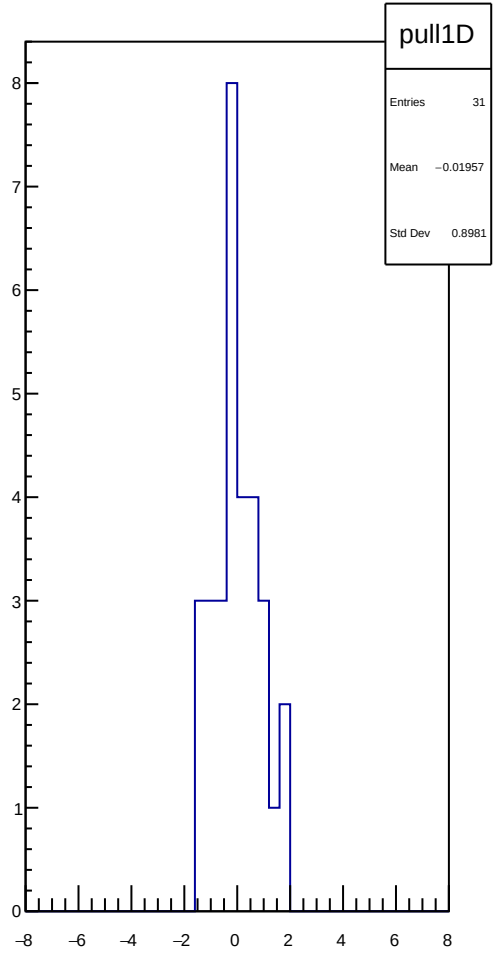

diff_bpm1p03aY_rms vs run
χ² / ndf 4559 / 30
p0 2224 ± 2.893
2600
2500
2400
2300
2200
2100
2000
1900
1800
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

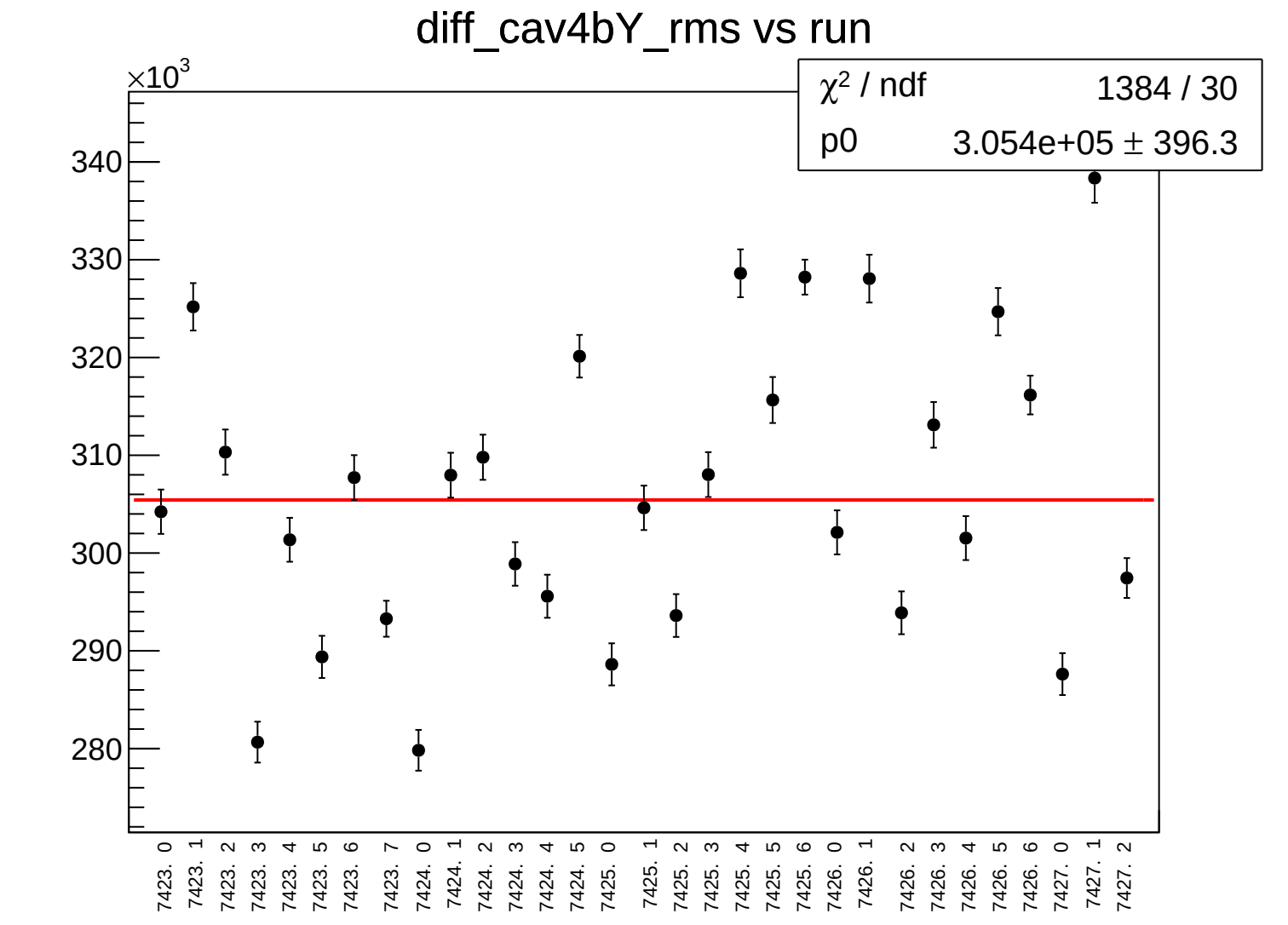

diff_cav4bX_mean vs run
χ² / ndf 43.2 / 30
p0 1470 ± 845.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 96.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

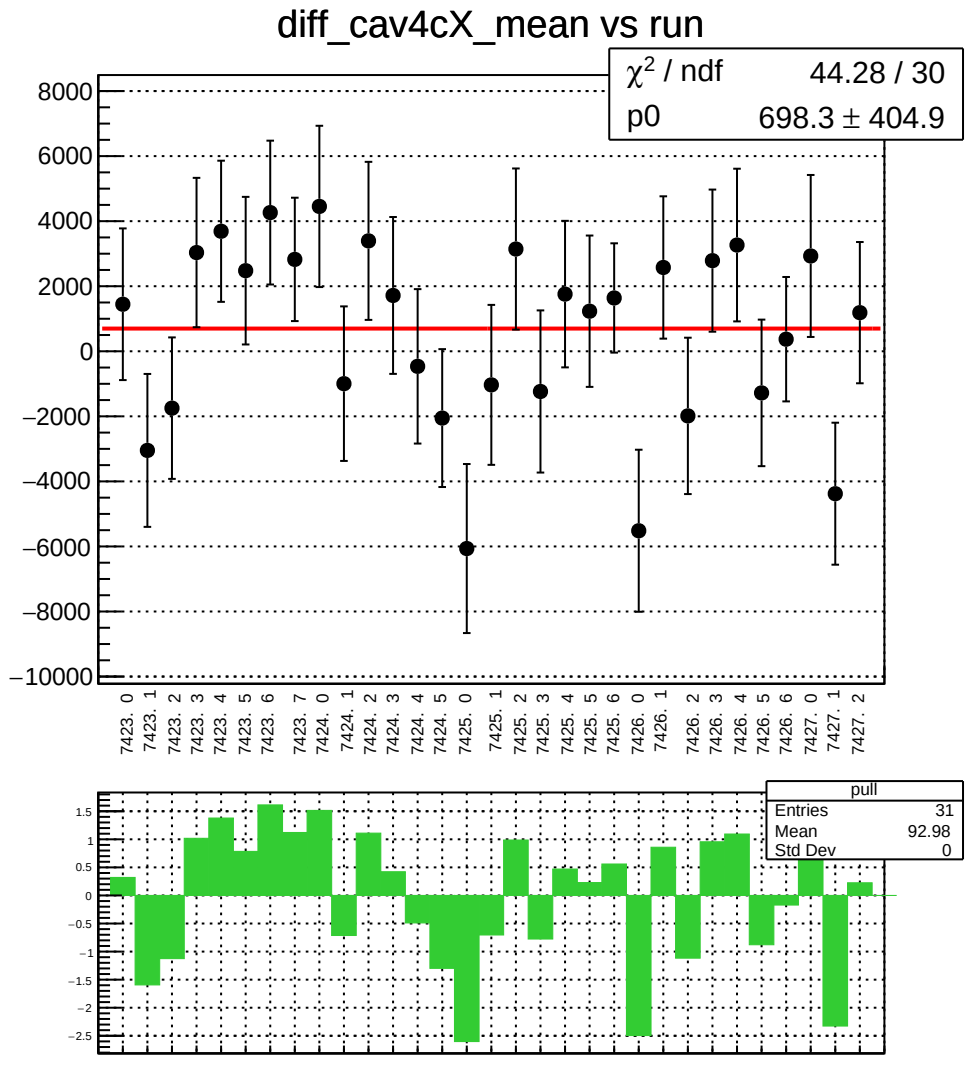

pull1D
Entries 31
Mean −0.02368
Std Dev 1.18
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

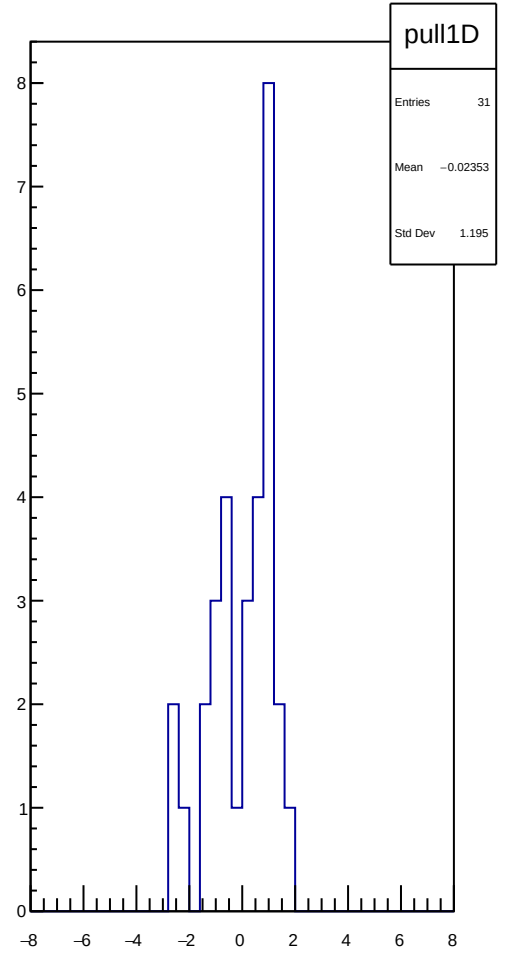

diff_cav4bX_rms vs run
×10^3
520
500
480
460
440
420
χ² / ndf 1242 / 30
p0 4.609e+05 ± 597.9
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

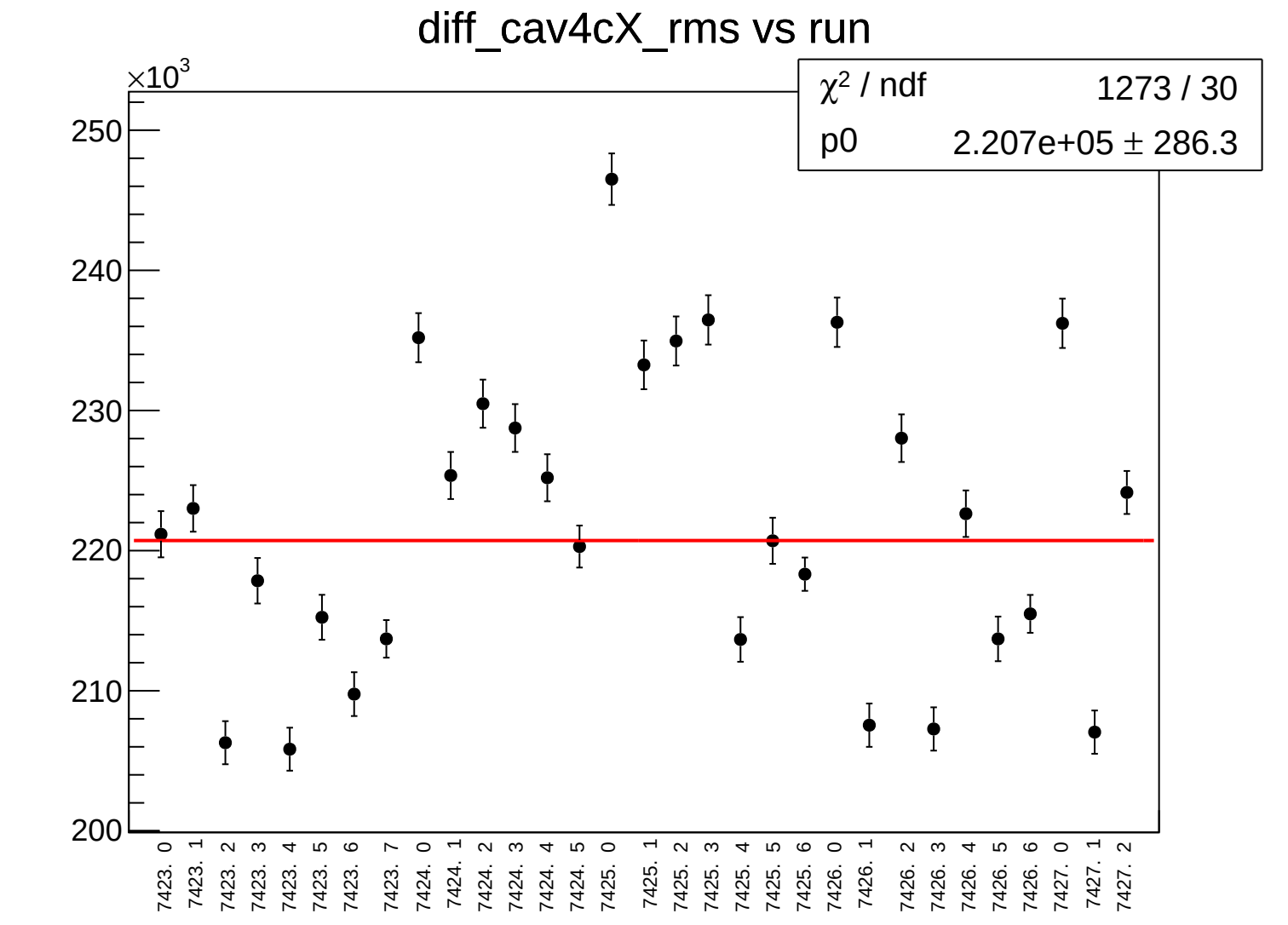

diff_cav4bY_mean vs run
χ² / ndf 25.01 / 30
p0 −223.6 ± 560.4
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −8.225
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

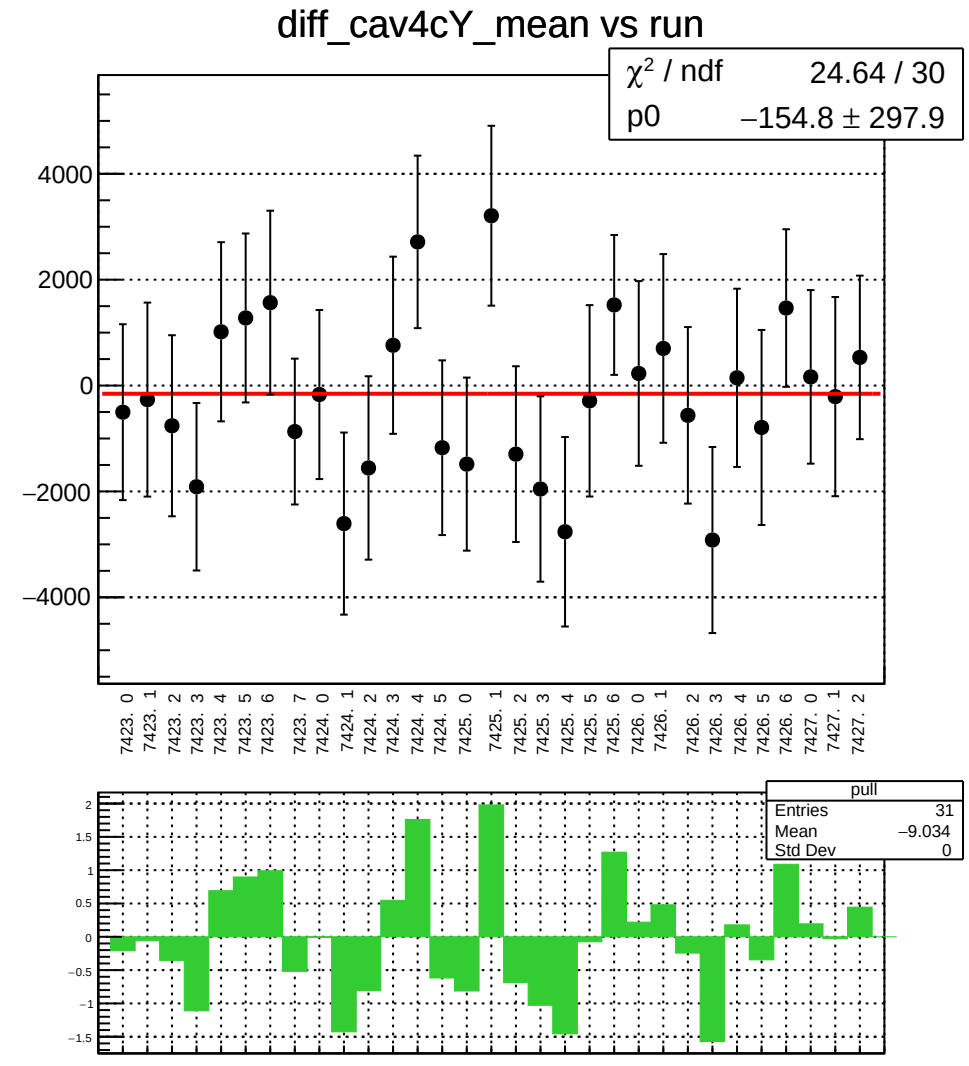

pull1D
Entries 31
Mean −0.01957
Std Dev 0.8981
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

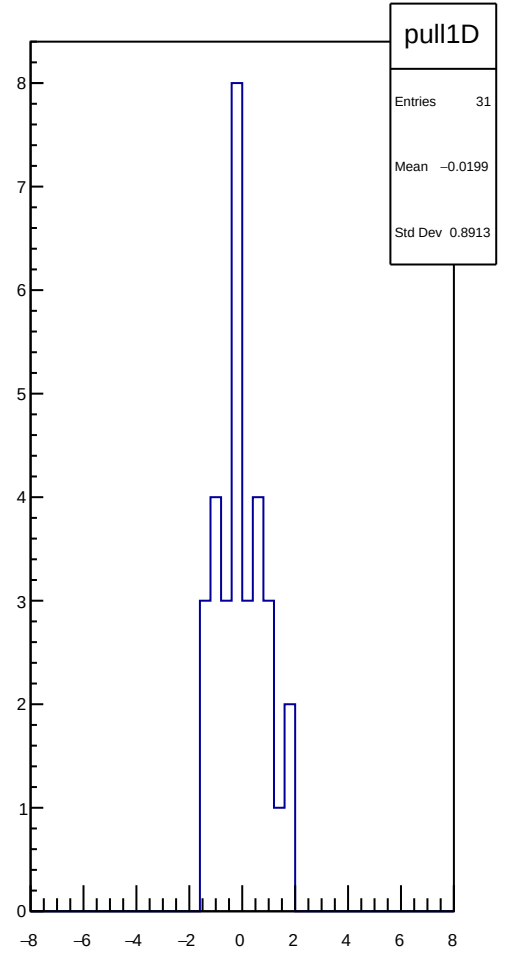

diff_cav4bY_rms vs run
×10^3
χ² / ndf 1384 / 30
p0 3.054e+05 ± 396.3
340
330
320
310
300
290
280
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

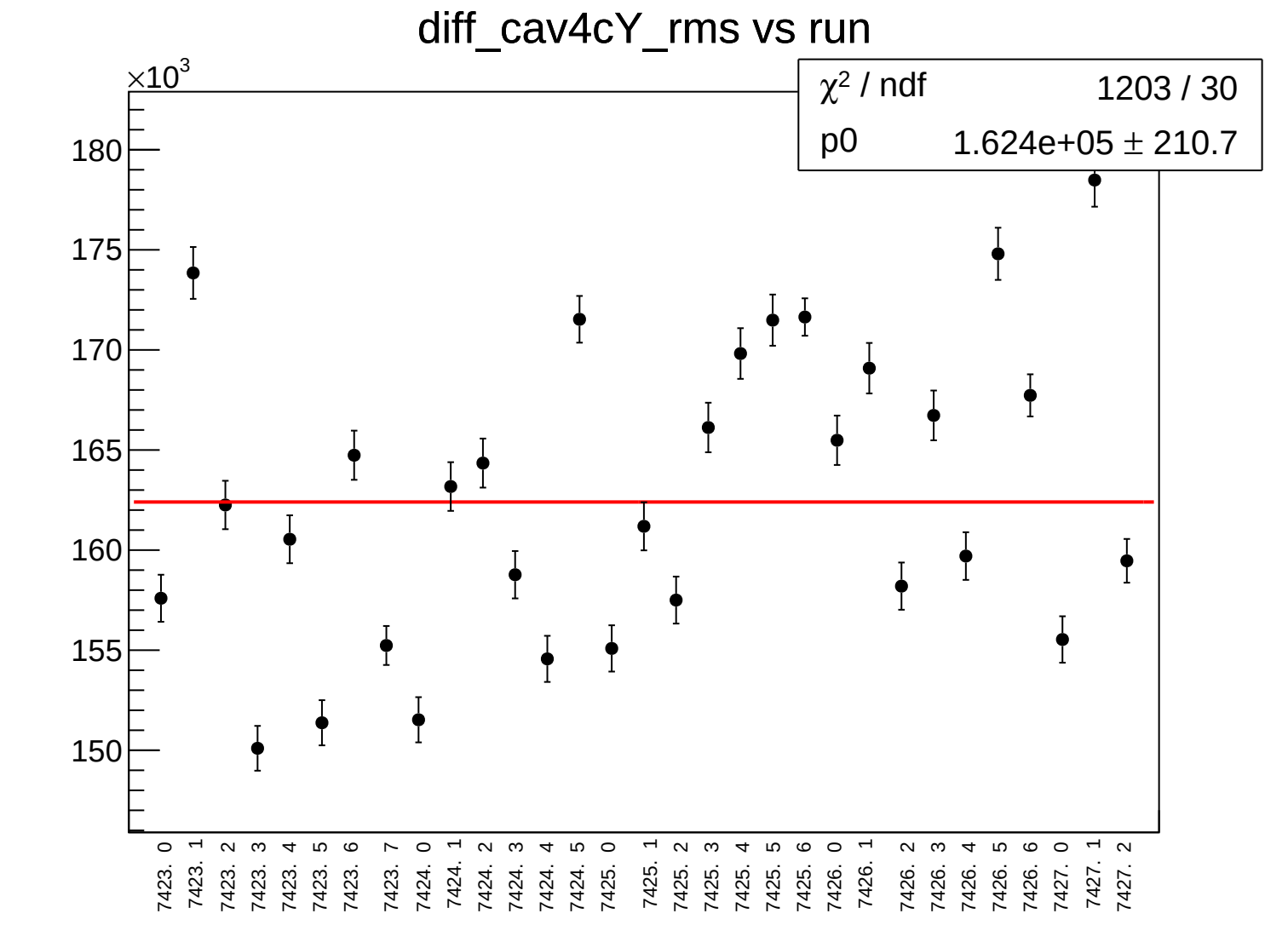

diff_cav4cX_mean vs run
χ² / ndf 44.28 / 30
p0 698.3 ± 404.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 92.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

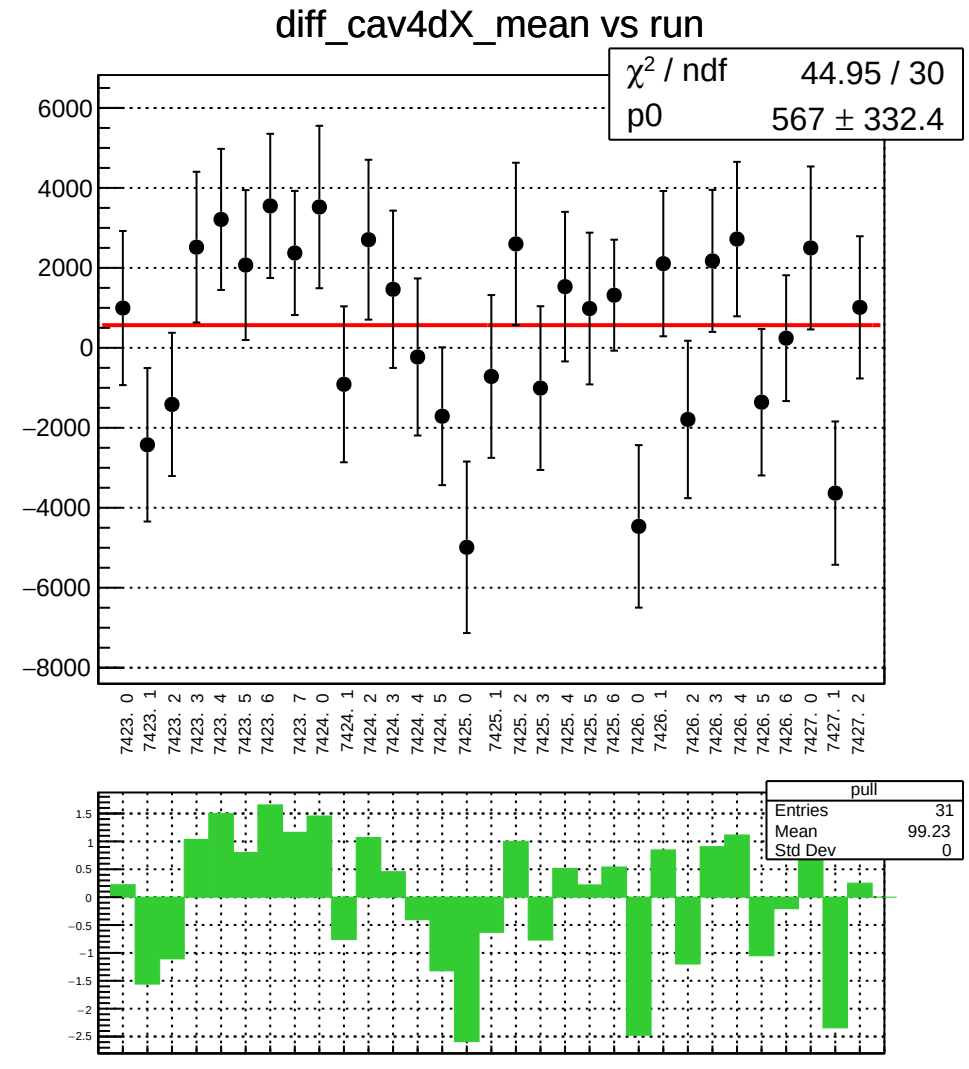

pull1D
Entries 31
Mean −0.02353
Std Dev 1.195
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

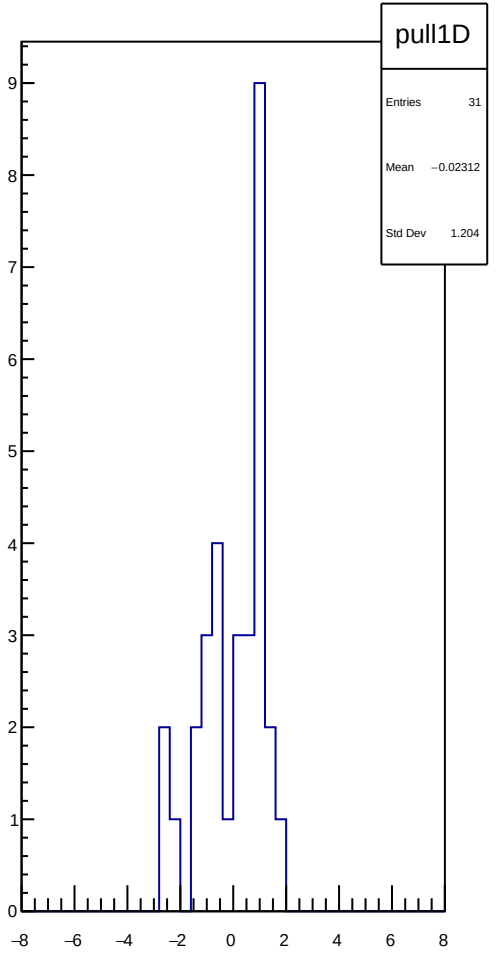

diff_cav4cX_rms vs run
×10^3
250
240
230
220
210
200
χ² / ndf 1273 / 30
p0 2.207e+05 ± 286.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

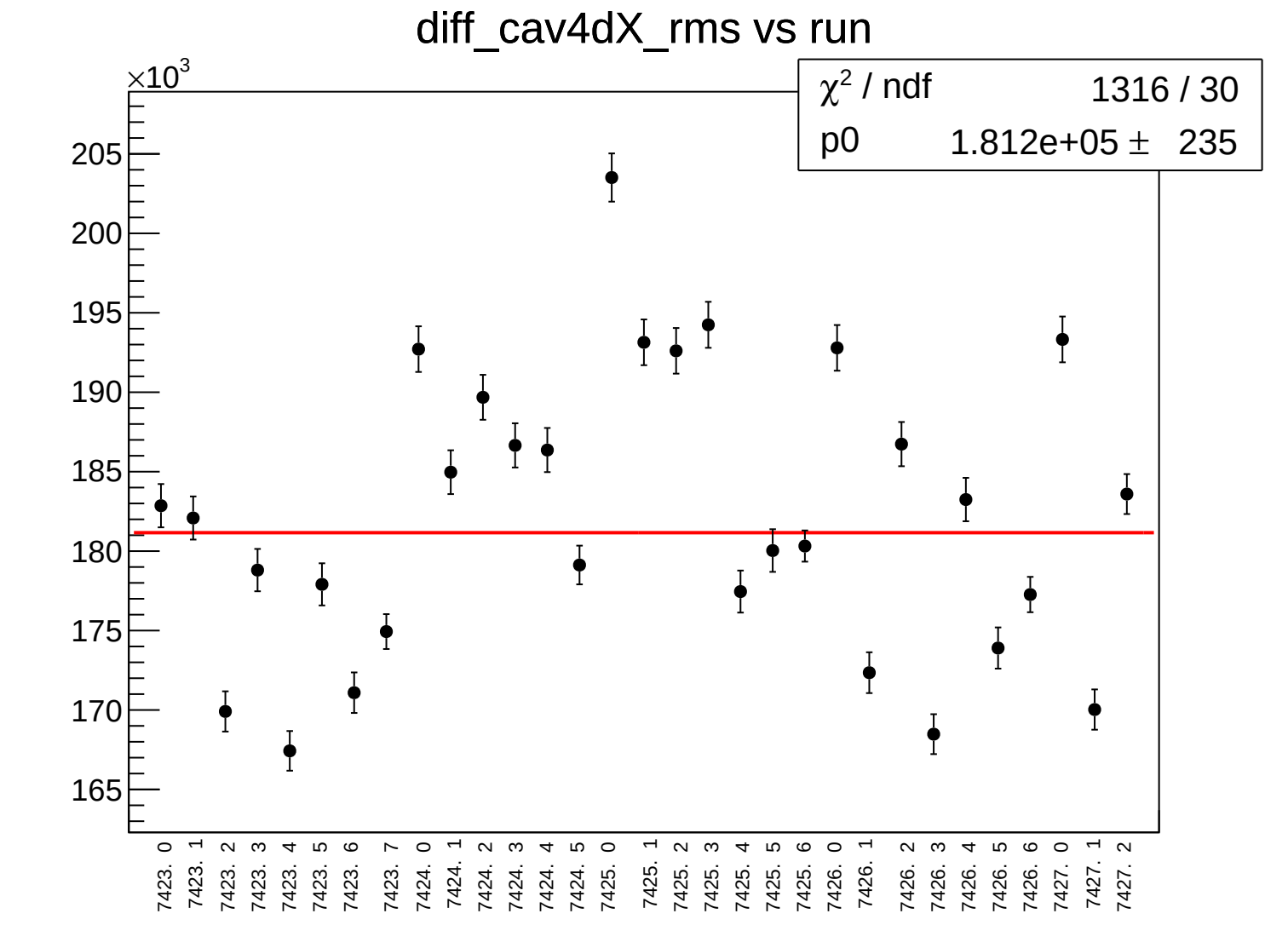

diff_cav4cY_mean vs run
χ² / ndf 24.64 / 30
p0 −154.8 ± 297.9
4000
2000
0
−2000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −9.034
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

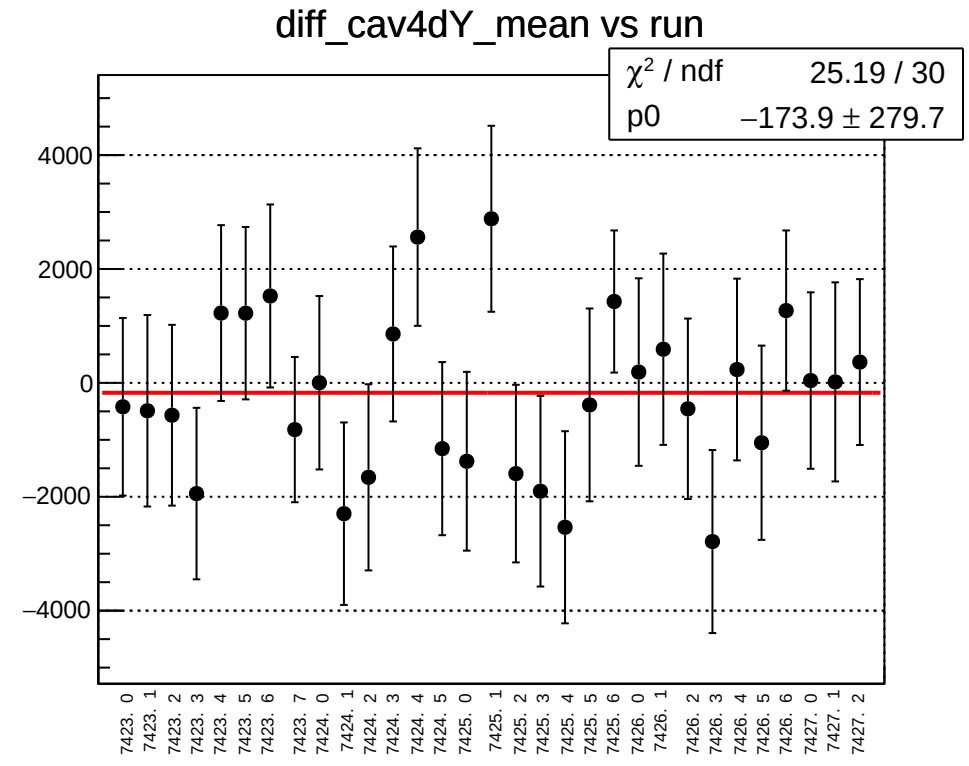

pull1D
Entries 31
Mean −0.0199
Std Dev 0.8913
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

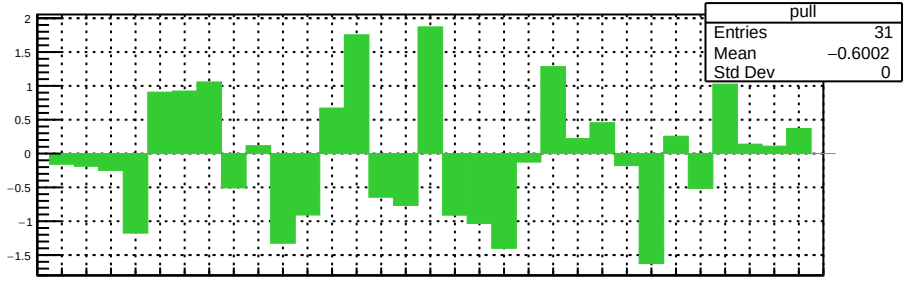

diff_cav4cY_rms vs run
×10^3
χ² / ndf 1203 / 30
p0 1.624e+05 ± 210.7
180
175
170
165
160
155
150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

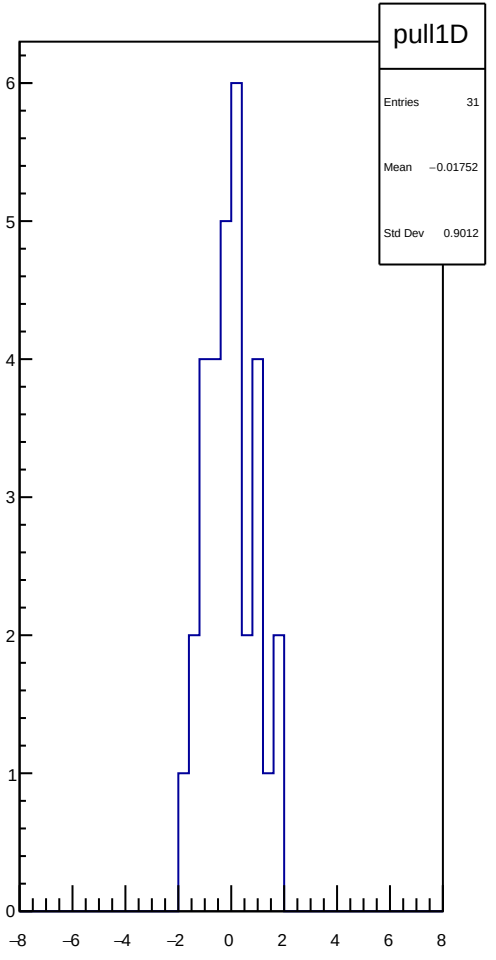

diff_cav4dX_mean vs run
χ² / ndf 44.95 / 30
p0 567 ± 332.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 99.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

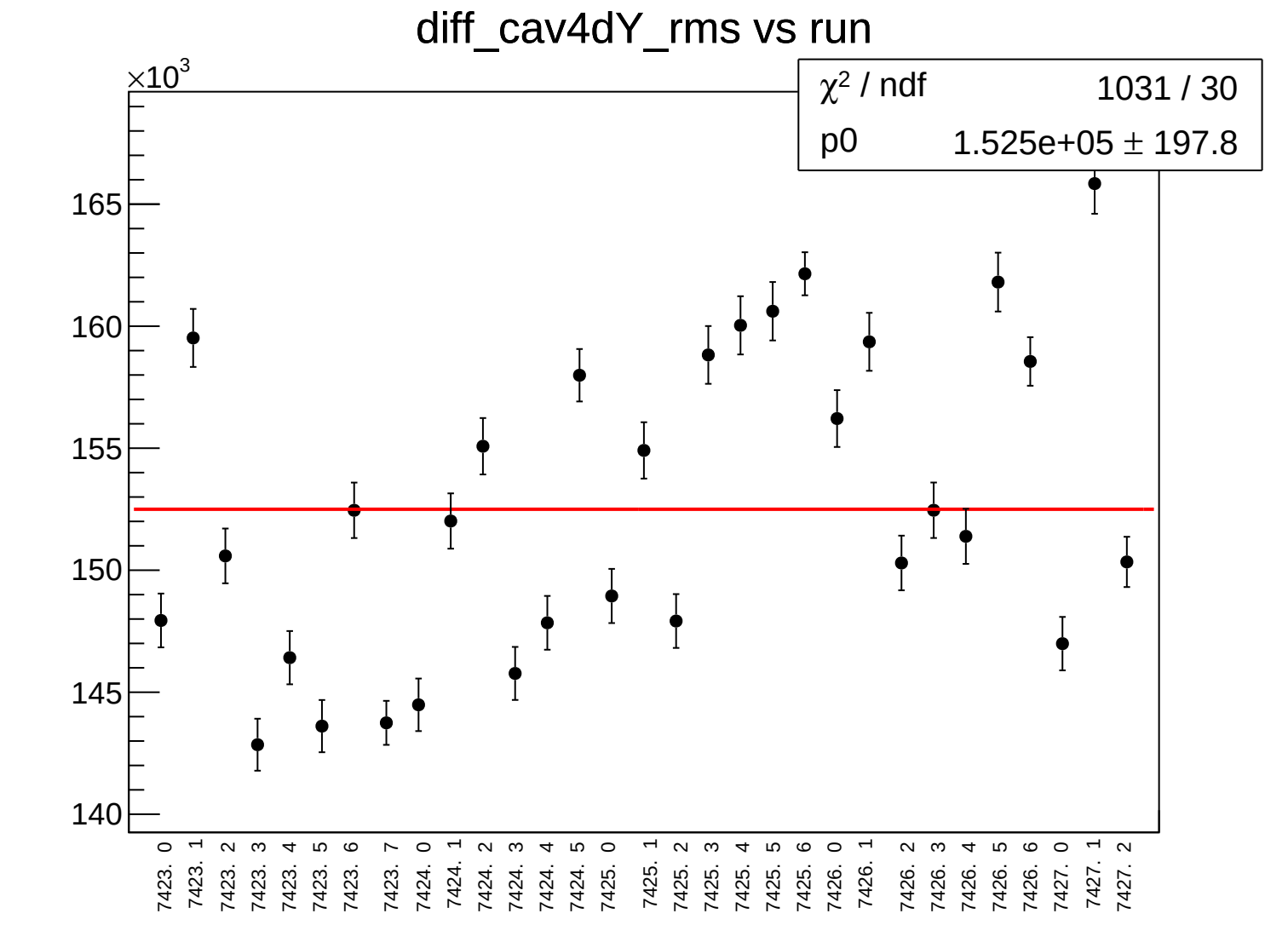

pull1D
Entries 31
Mean −0.02312
Std Dev 1.204
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

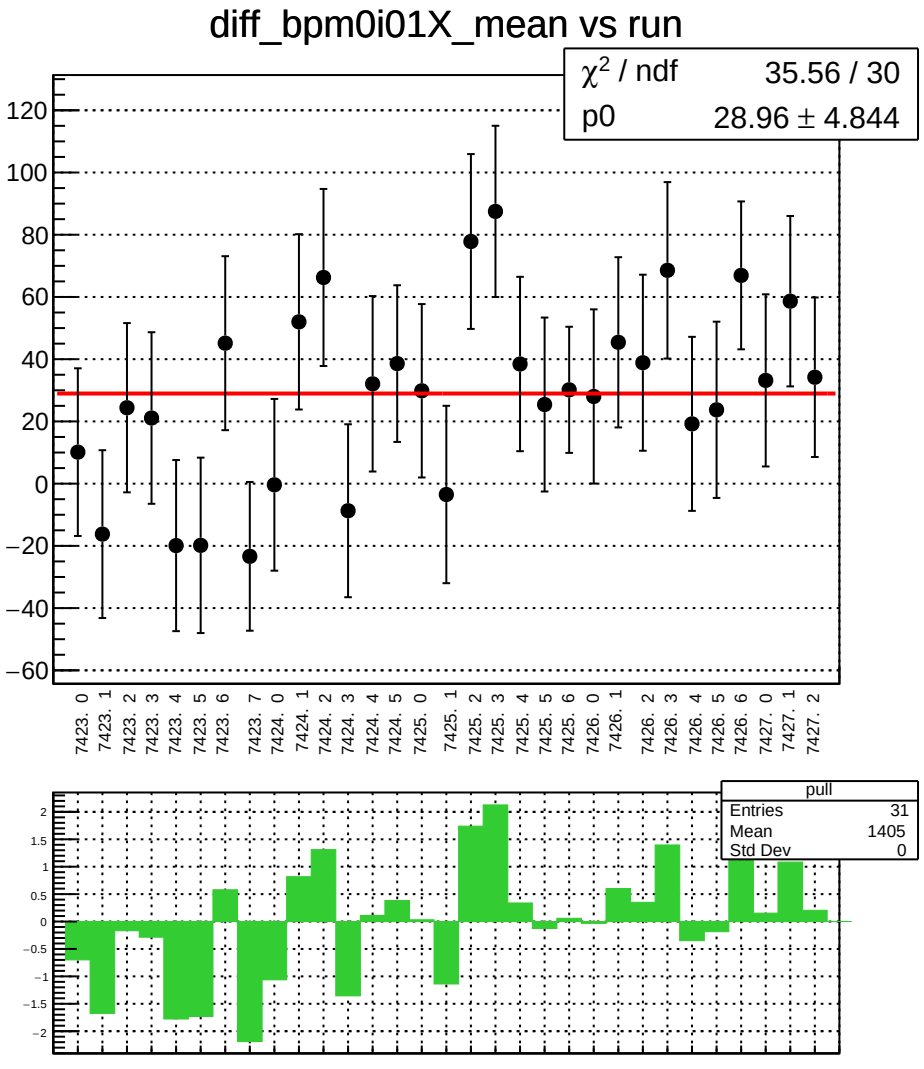

diff_cav4dX_rms vs run
×10^3
χ^2 / ndf 1316 / 30
p0 1.812e+05 ± 235
205
200
195
190
185
180
175
170
165
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

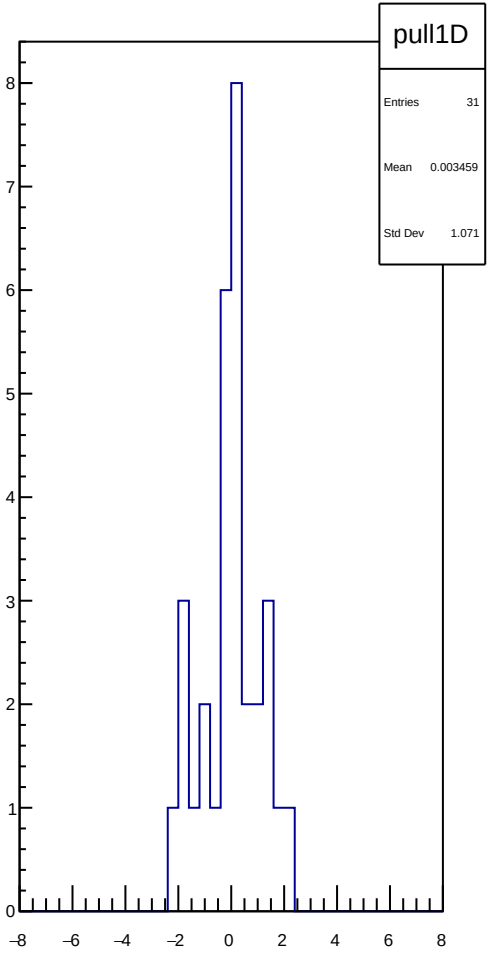

diff_cav4dY_mean vs run
χ² / ndf 25.19 / 30
p0 −173.9 ± 279.7
4000
2000
0
−2000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

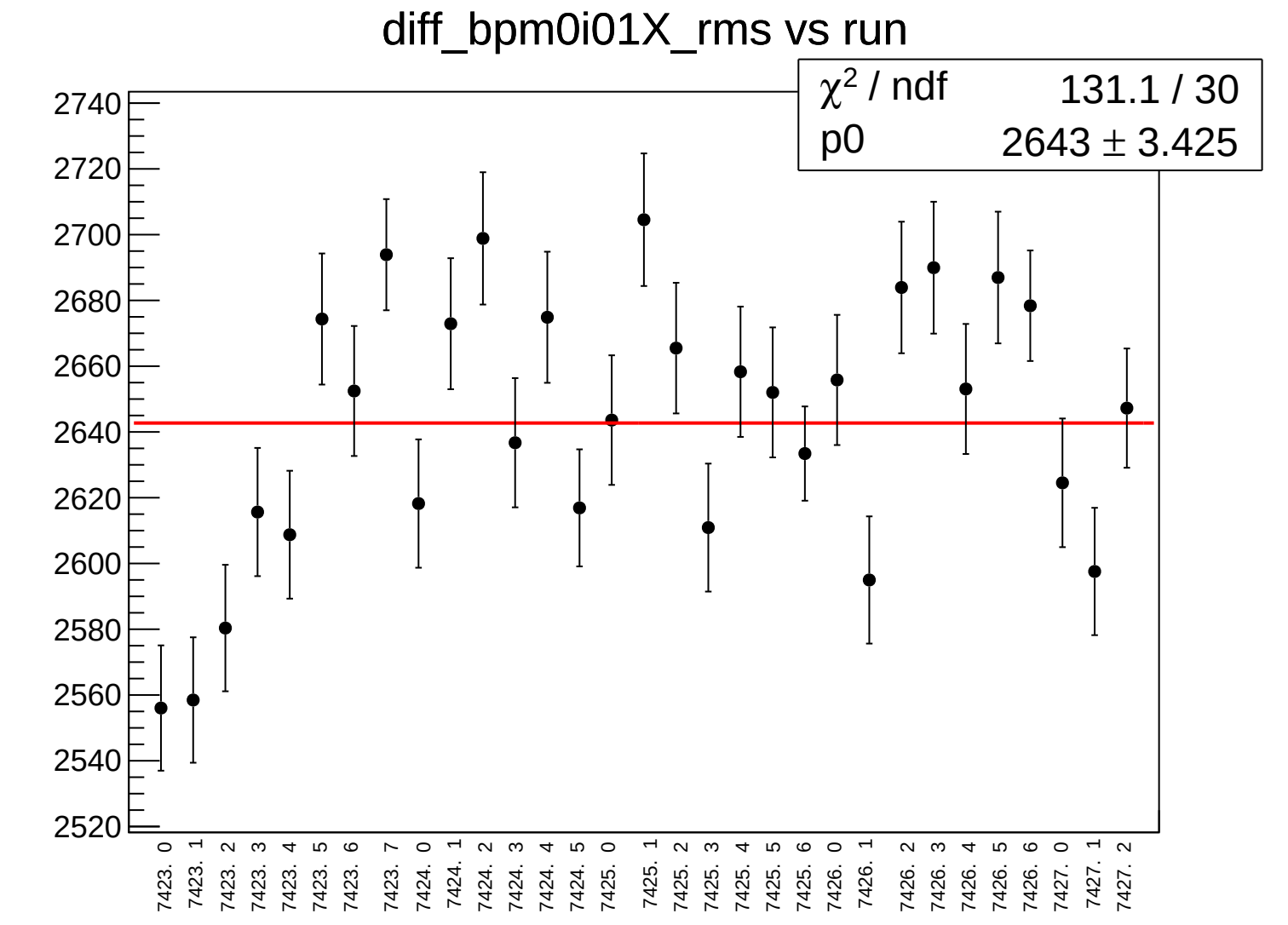

pull
Entries 31
Mean −0.6002
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

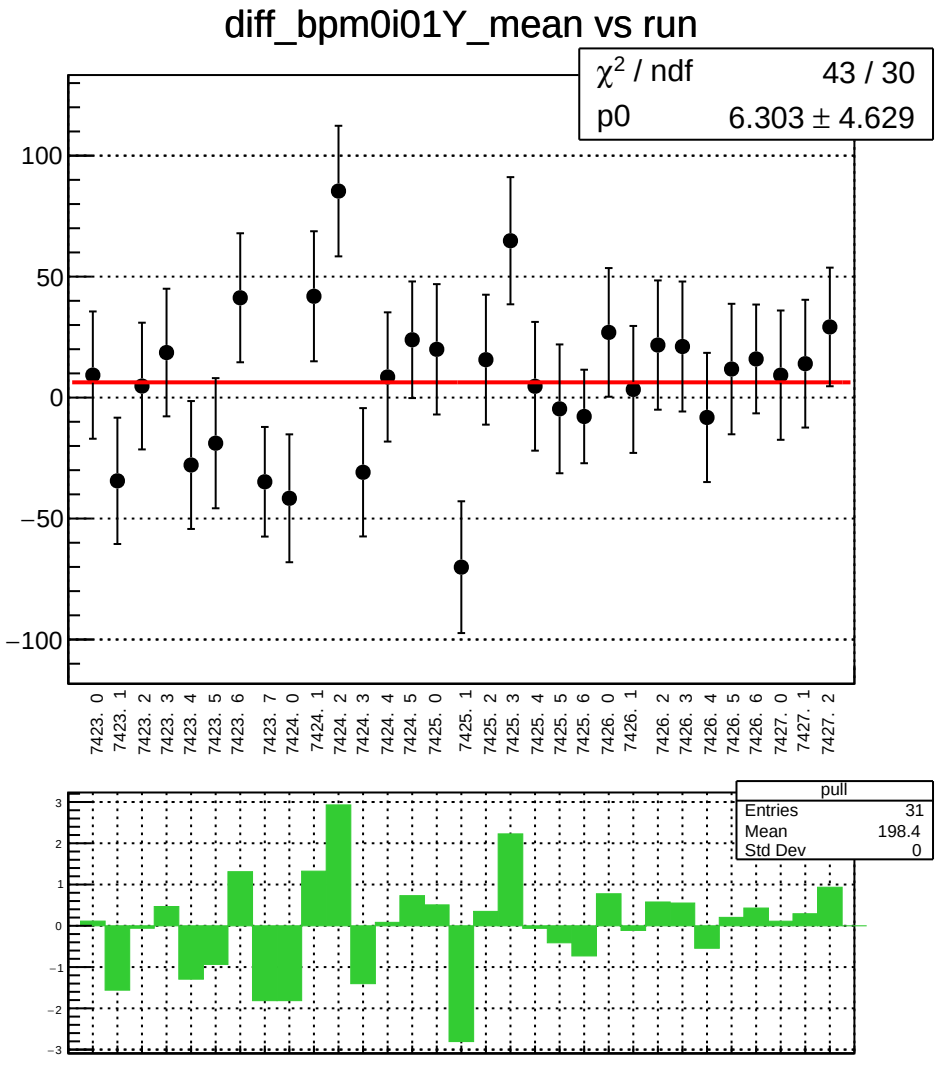

pull1D
Entries 31
Mean −0.01752
Std Dev 0.9012
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

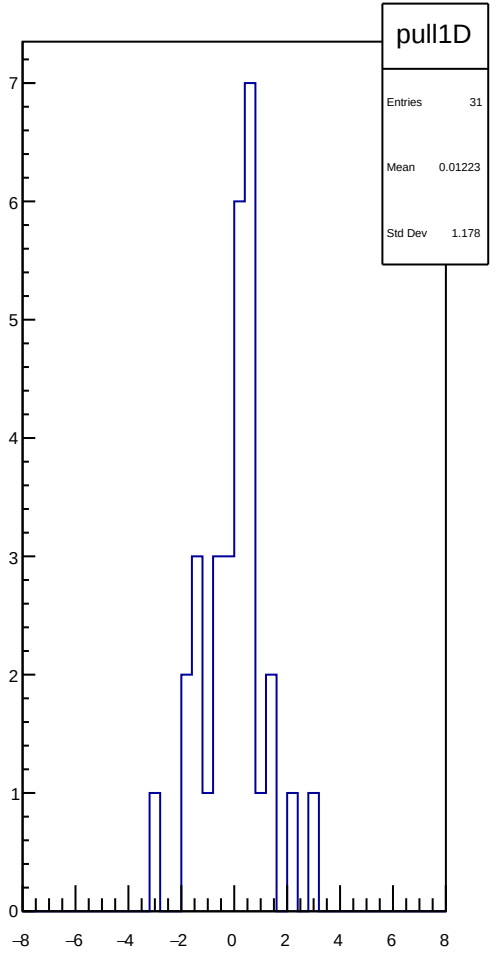

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1031 / 30
p0 1.525e+05 ± 197.8
165
160
155
150
145
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

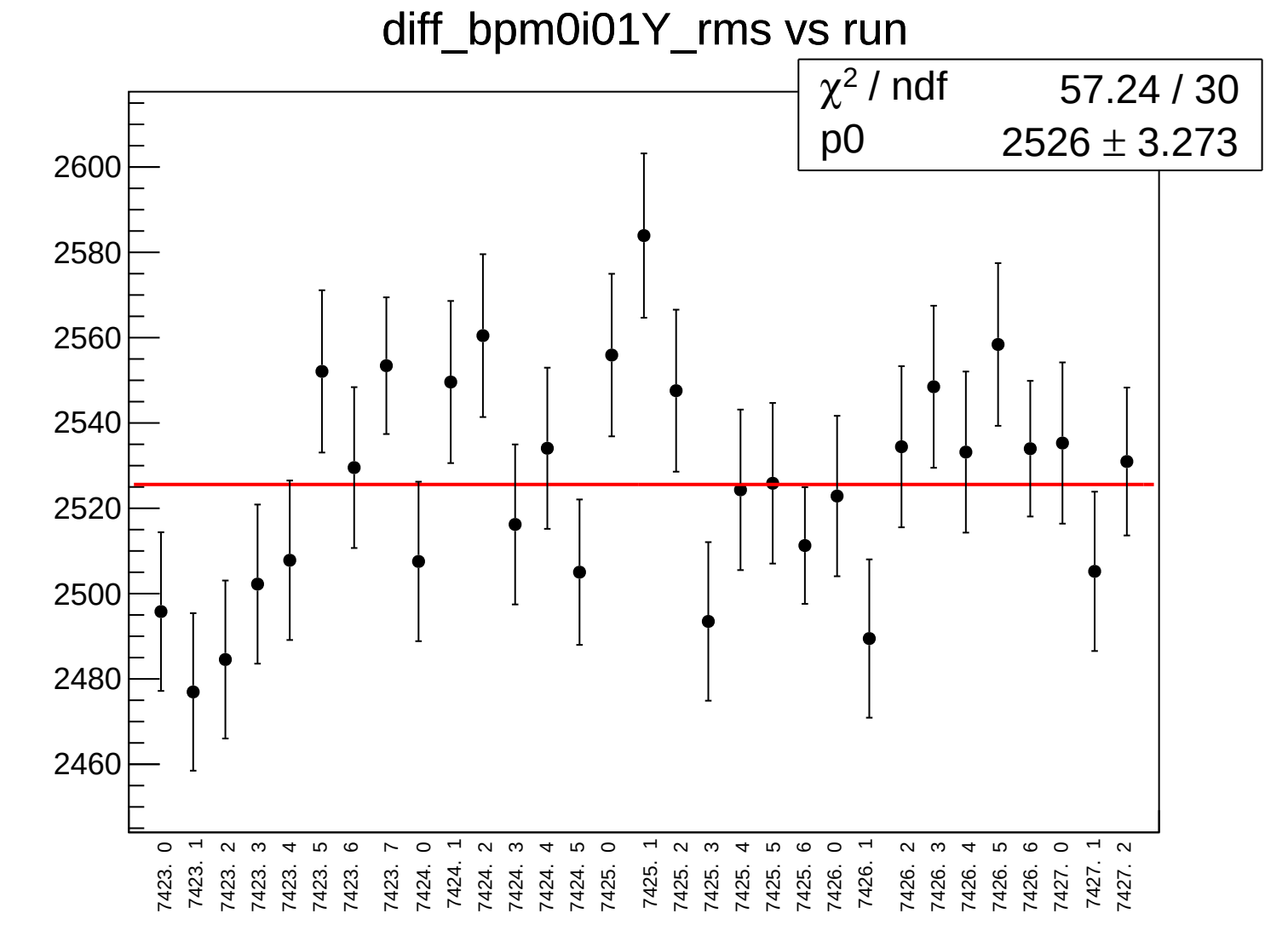

diff_bpm0i01X_mean vs run
χ² / ndf 35.56 / 30
p0 28.96 ± 4.844
pull
Entries 31
Mean 1405
Std Dev 0

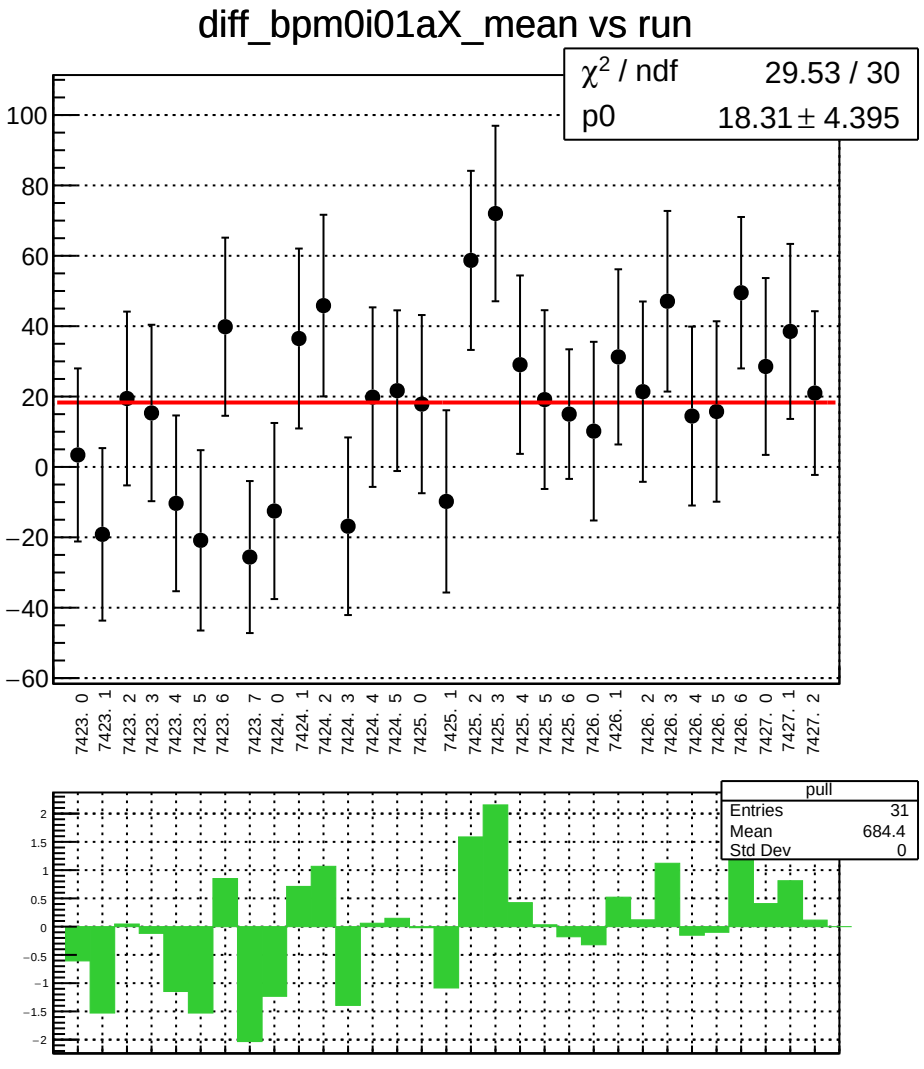

pull1D
Entries 31
Mean 0.003459
Std Dev 1.071

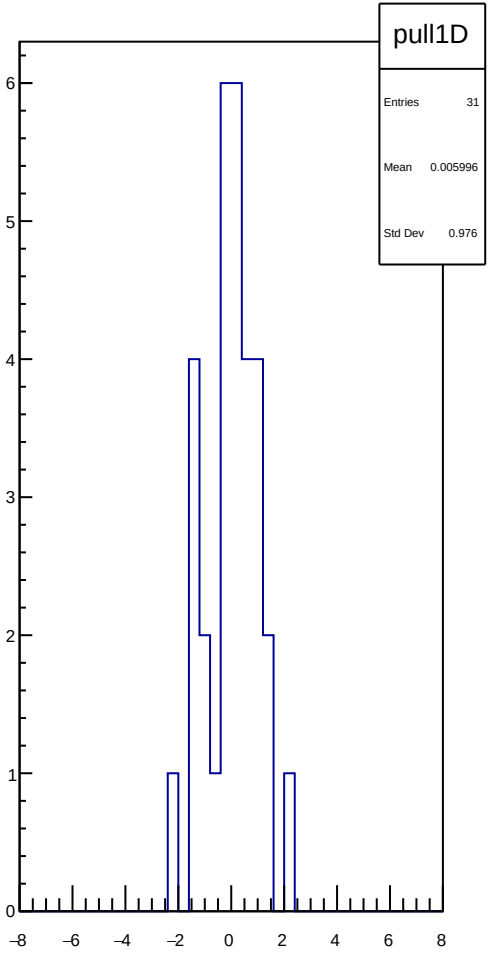

diff_bpm0i01X_rms vs run
χ² / ndf 131.1 / 30
p0 2643 ± 3.425
2740
2720
2700
2680
2660
2640
2620
2600
2580
2560
2540
2520
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

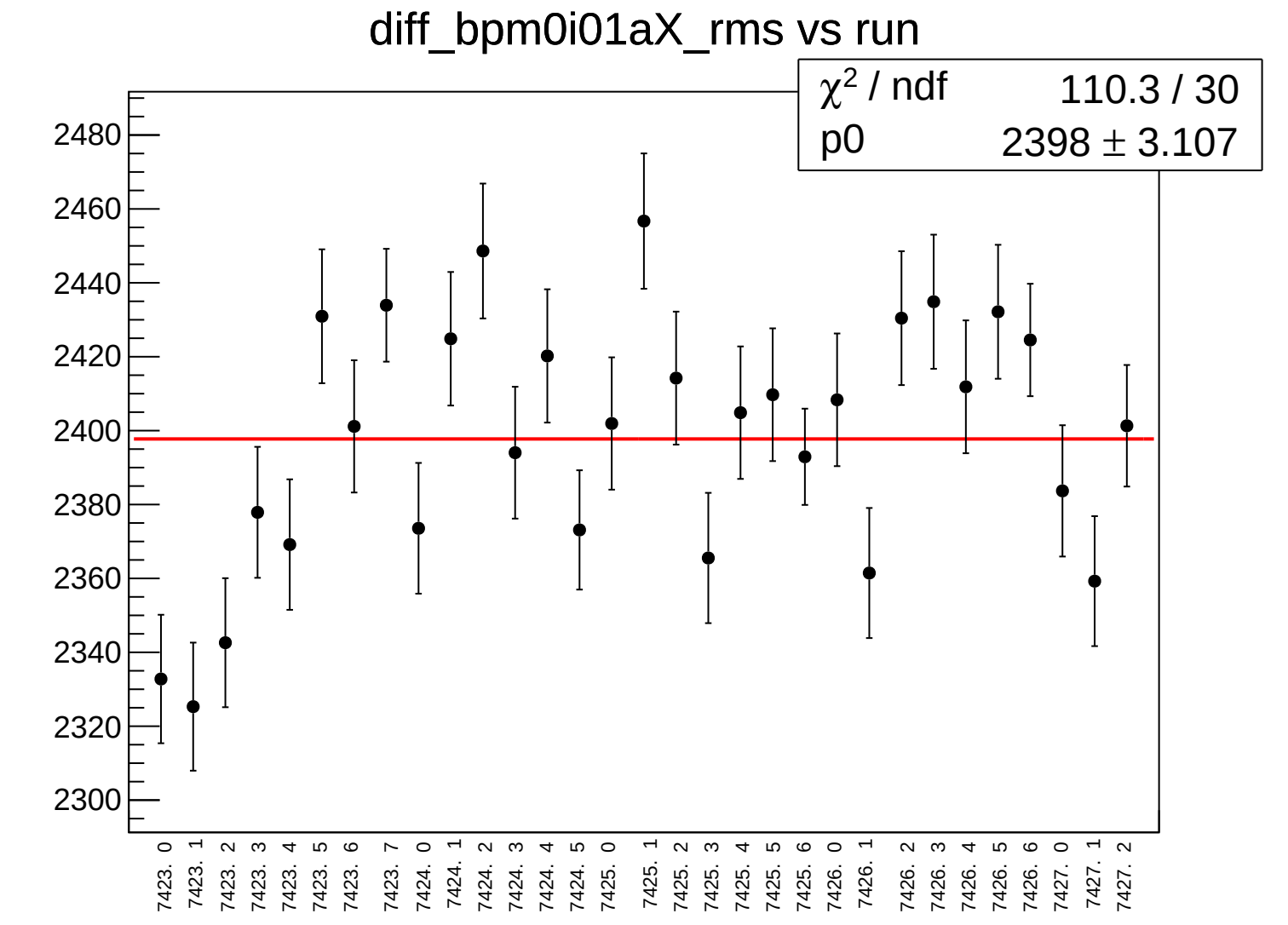

diff_bpm0i01Y_mean vs run
χ² / ndf 43 / 30
p0 6.303 ± 4.629
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 198.4
Std Dev 0
3
2
1
0
−1
−2
−3

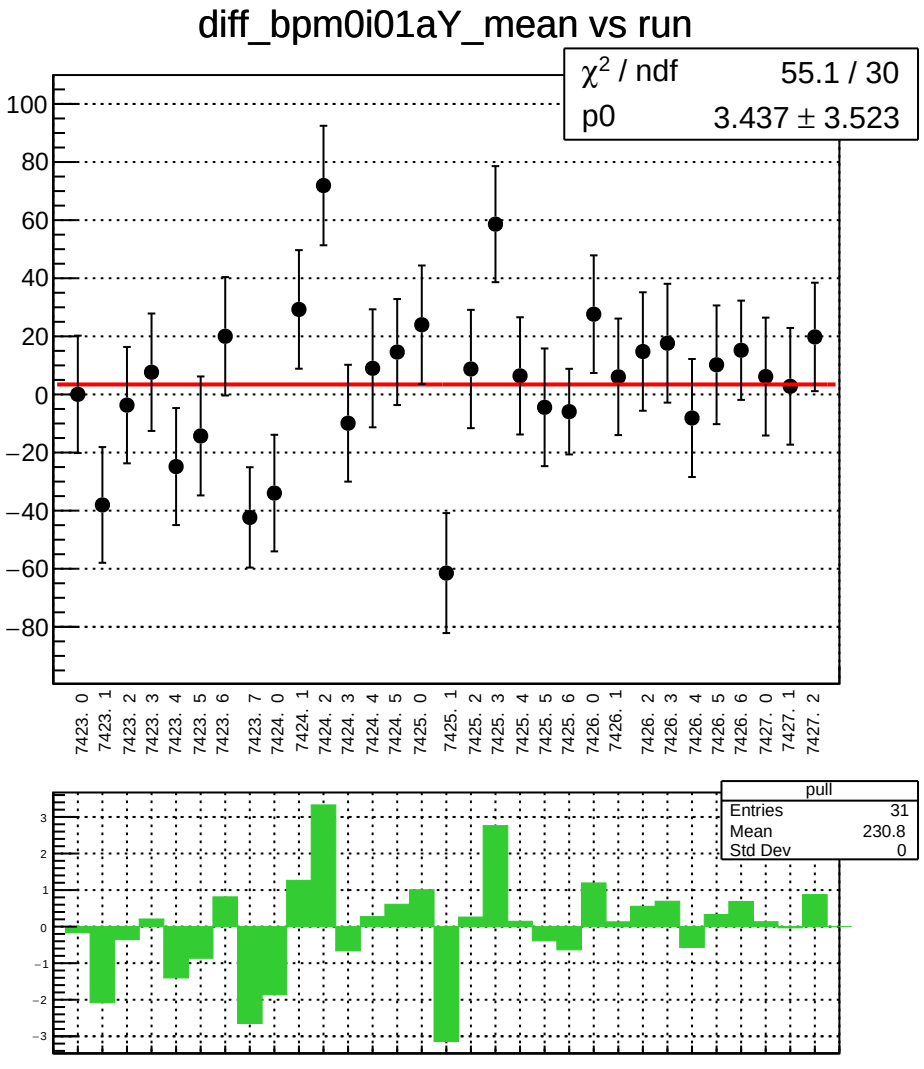

pull1D
Entries 31
Mean 0.01223
Std Dev 1.178
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

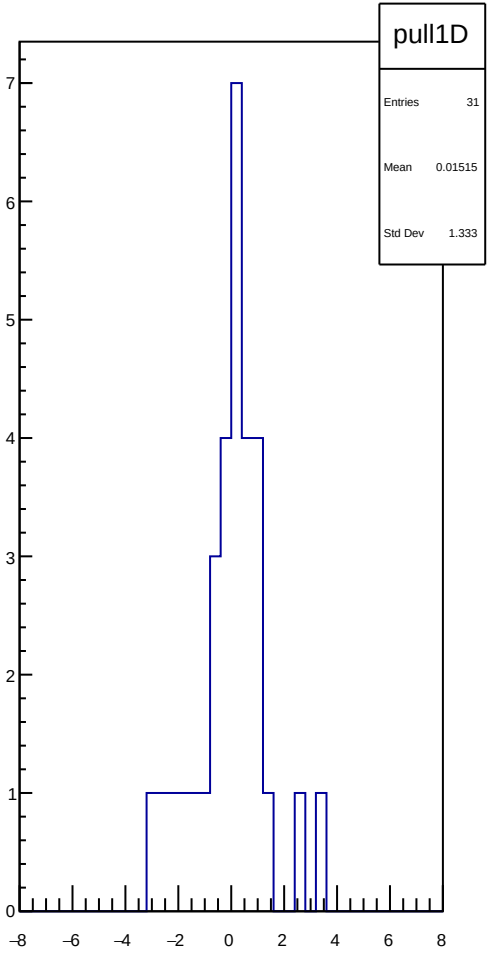

diff_bpm0i01Y_rms vs run
χ² / ndf 57.24 / 30
p0 2526 ± 3.273
2600
2580
2560
2540
2520
2500
2480
2460
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

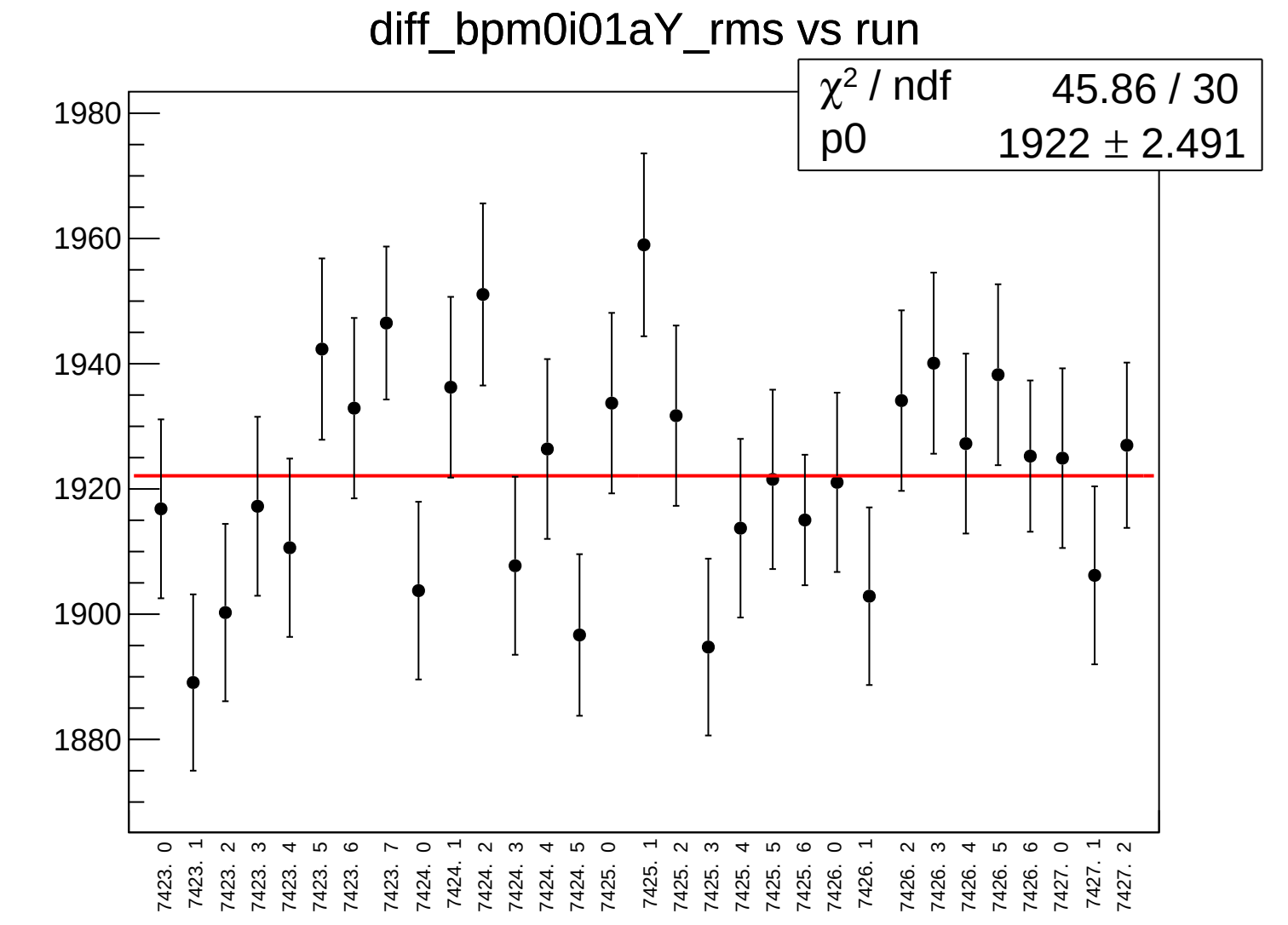

diff_bpm0i01aX_mean vs run
χ² / ndf 29.53 / 30
p0 18.31 ± 4.395
100
80
60
40
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 684.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

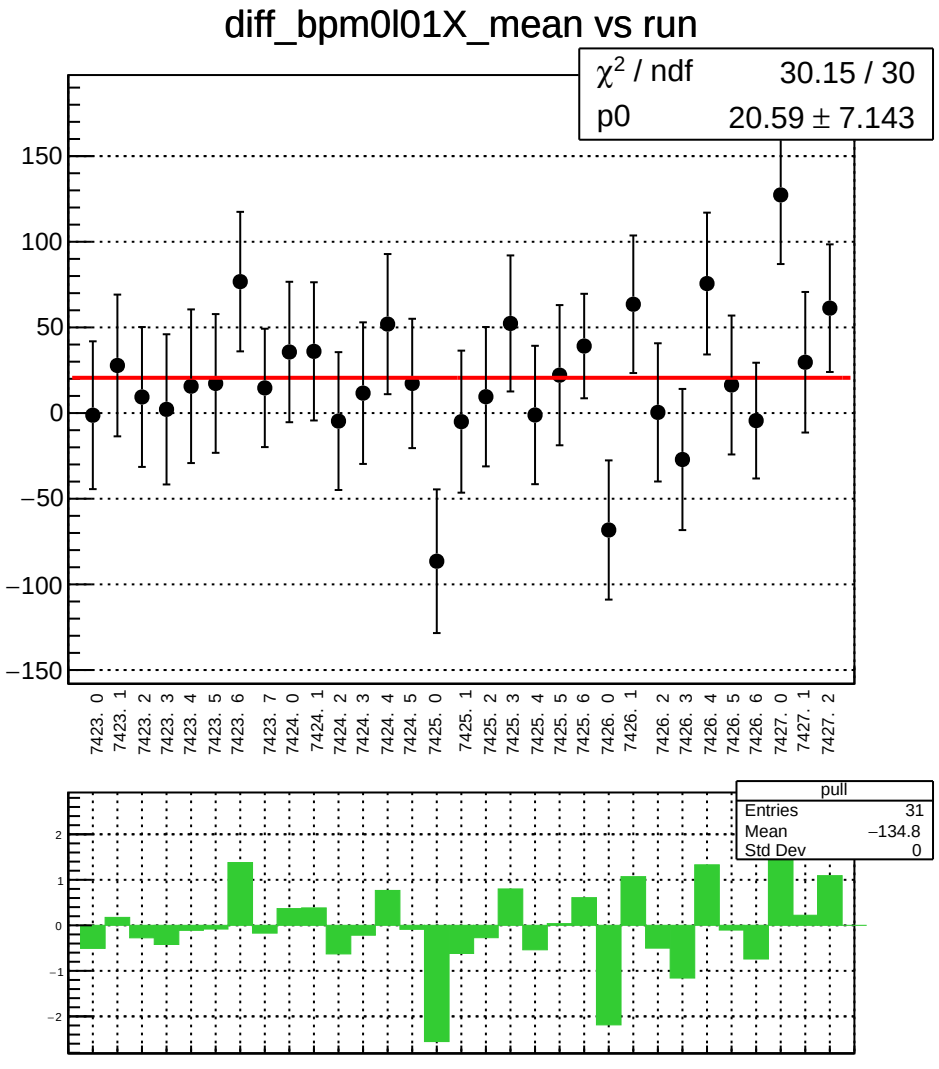

pull1D
Entries 31
Mean 0.005996
Std Dev 0.976
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

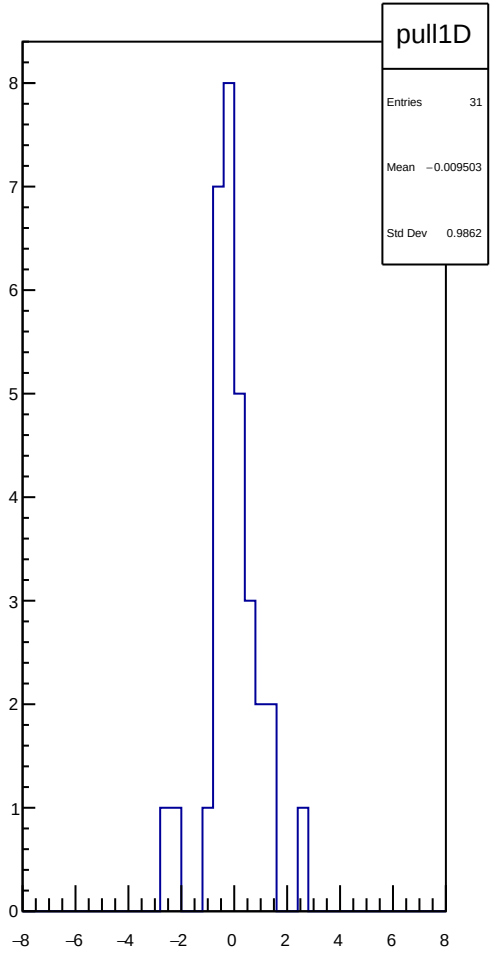

diff_bpm0i01aX_rms vs run
χ² / ndf 110.3 / 30
p0 2398 ± 3.107
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

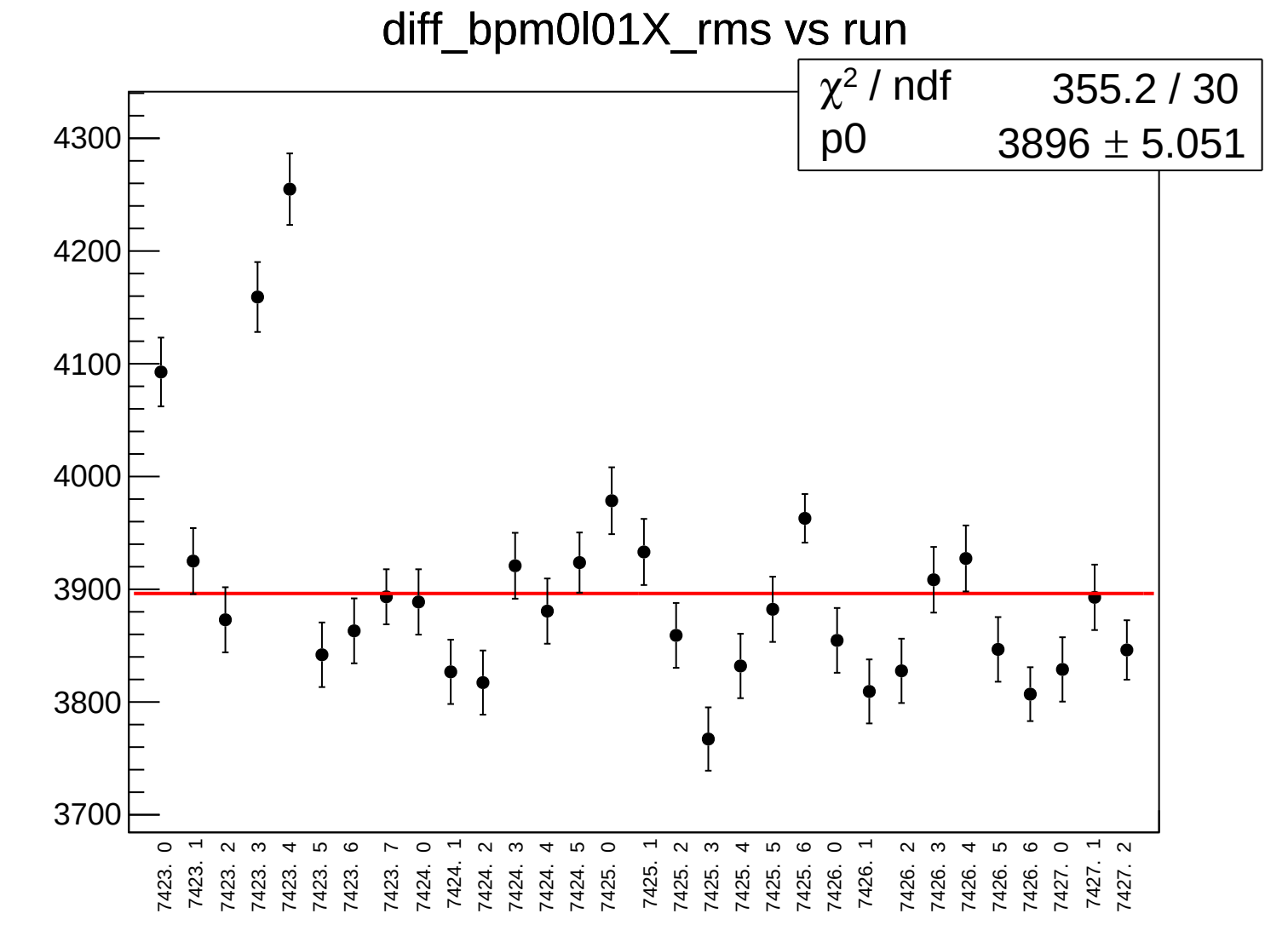

diff_bpm0i01aY_mean vs run
χ² / ndf 55.1 / 30
p0 3.437 ± 3.523
100
80
60
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 230.8
Std Dev 0
3
2
1
0
−1
−2
−3

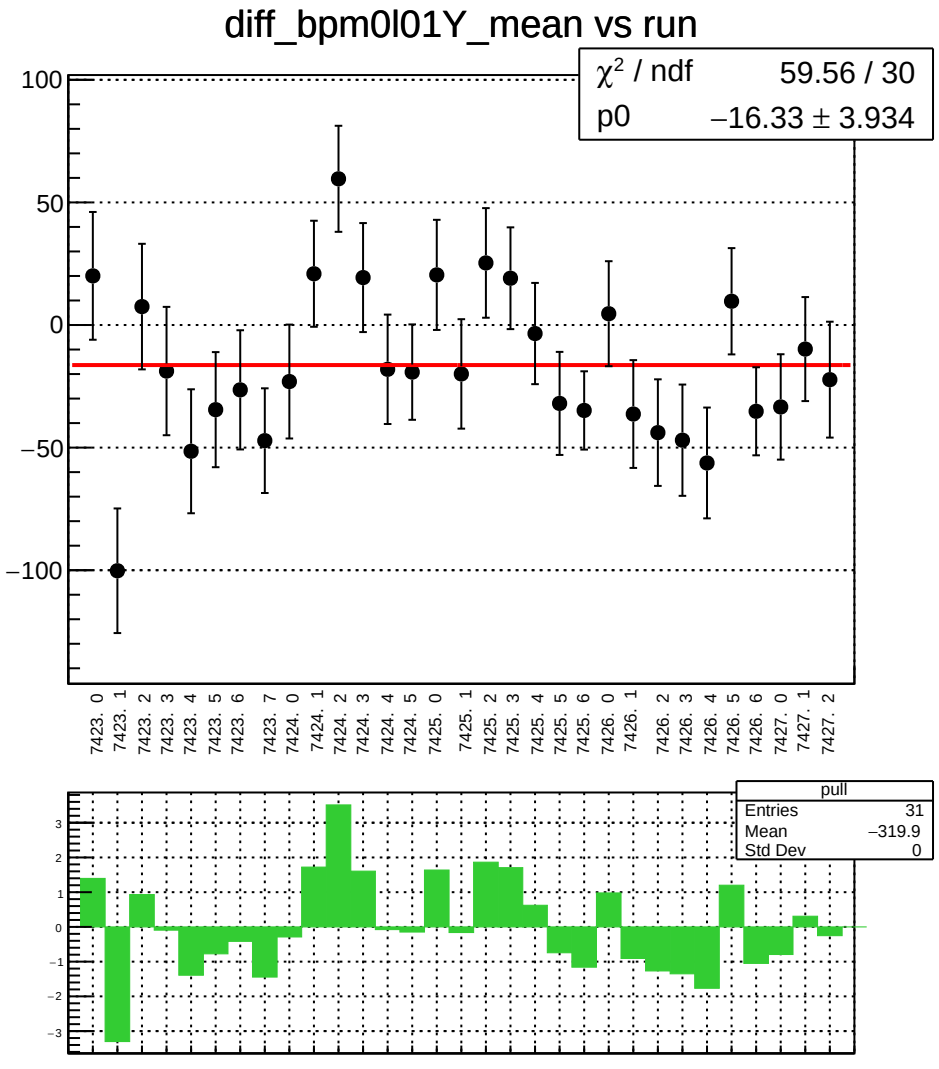

pull1D
Entries 31
Mean 0.01515
Std Dev 1.333
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

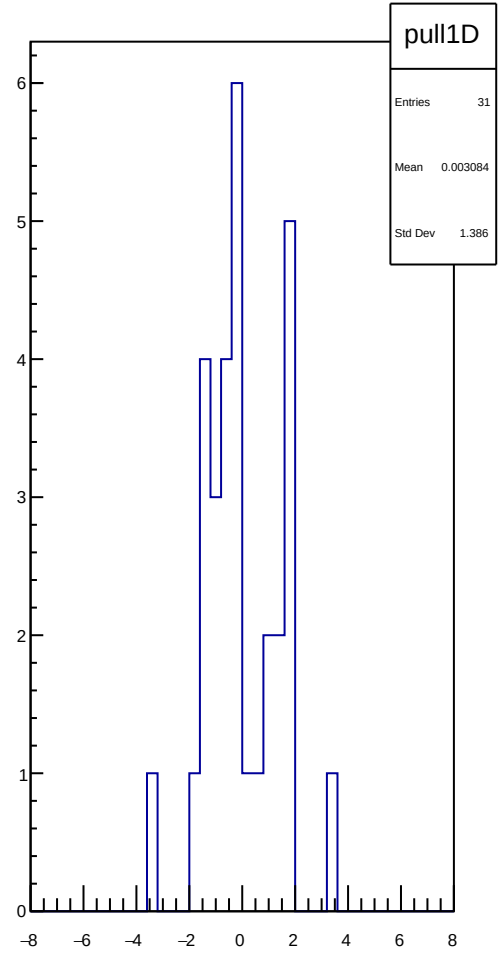

diff_bpm0i01aY_rms vs run
χ² / ndf 45.86 / 30
p0 1922 ± 2.491
1980
1960
1940
1920
1900
1880
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

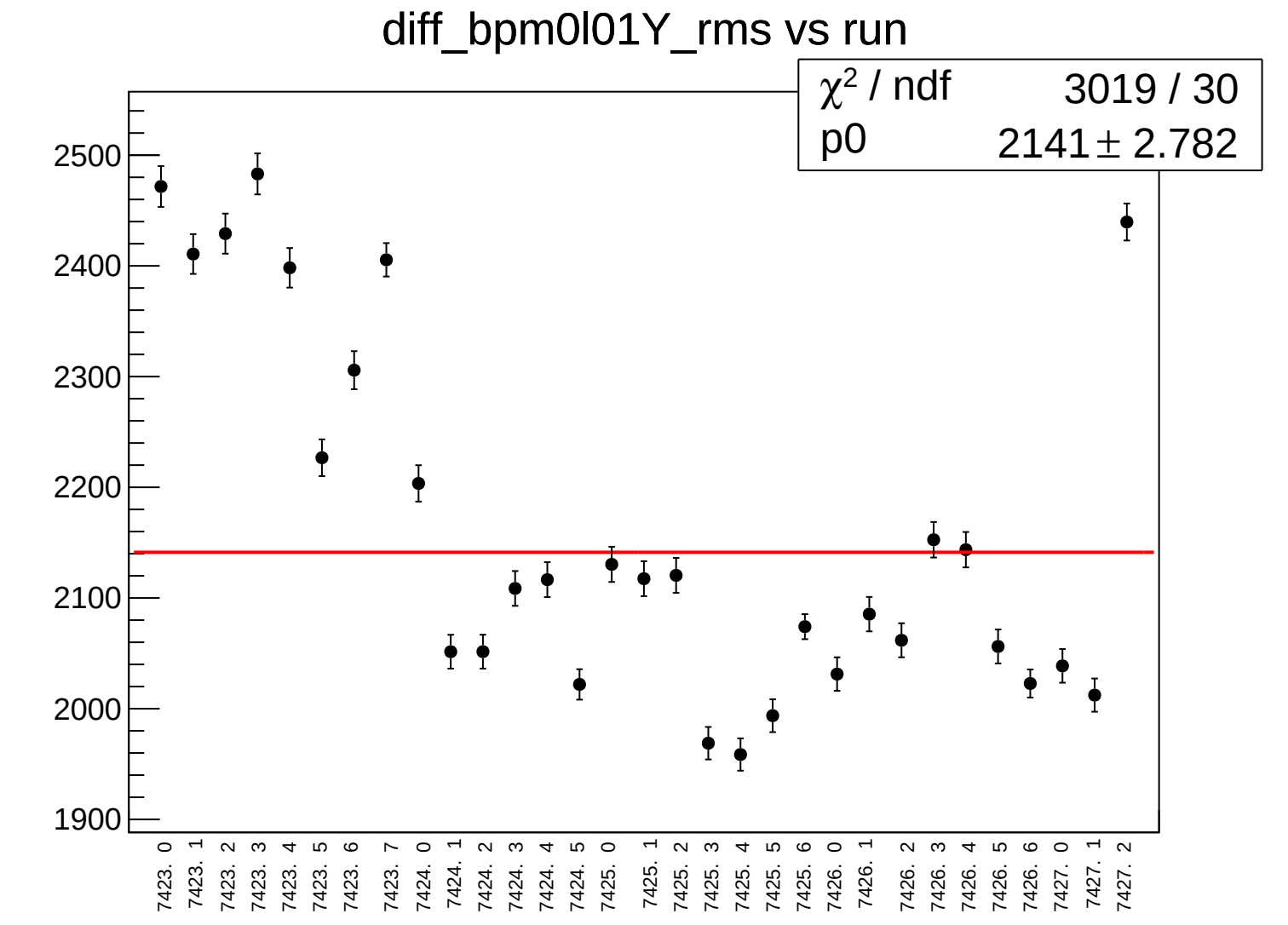

diff_bpm0l01X_mean vs run
χ² / ndf 30.15 / 30
p0 20.59 ± 7.143
150
100
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −134.8
Std Dev 0
2
1
0
−1
−2

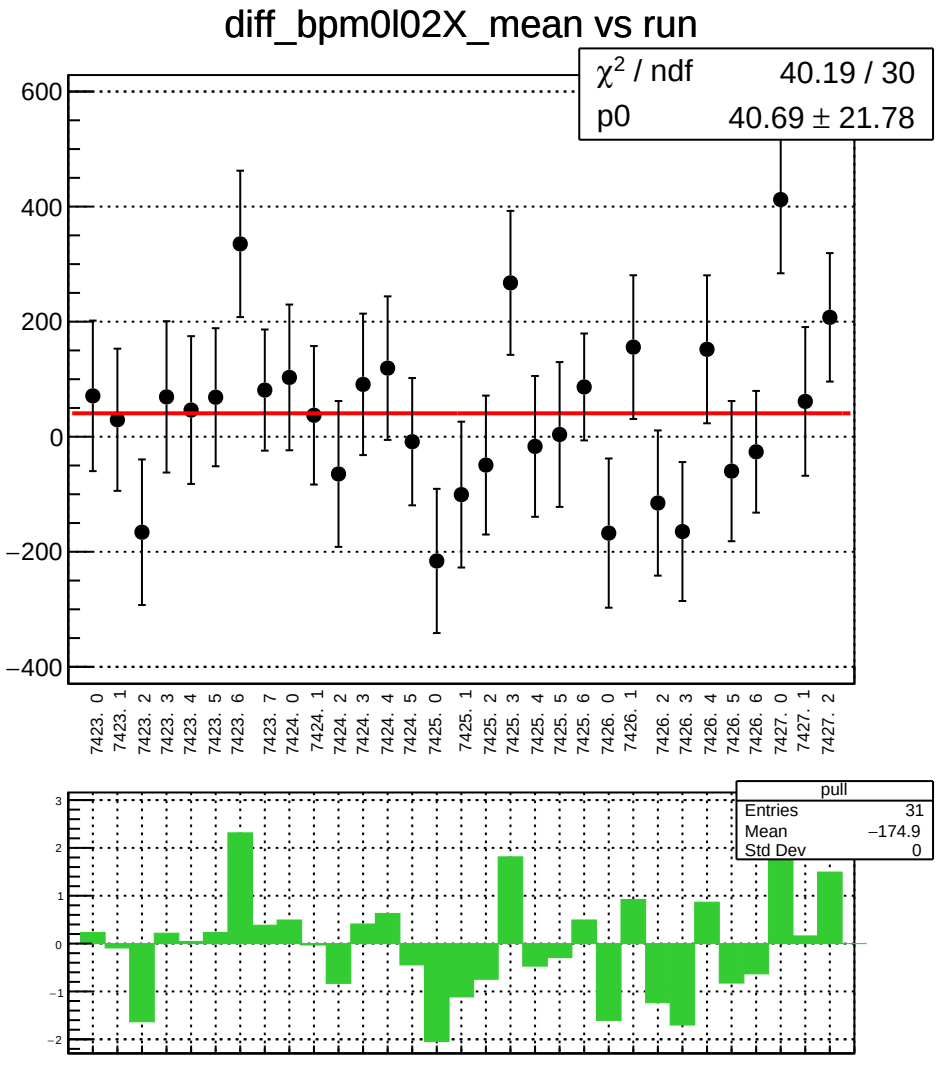

pull1D
Entries 31
Mean −0.009503
Std Dev 0.9862
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

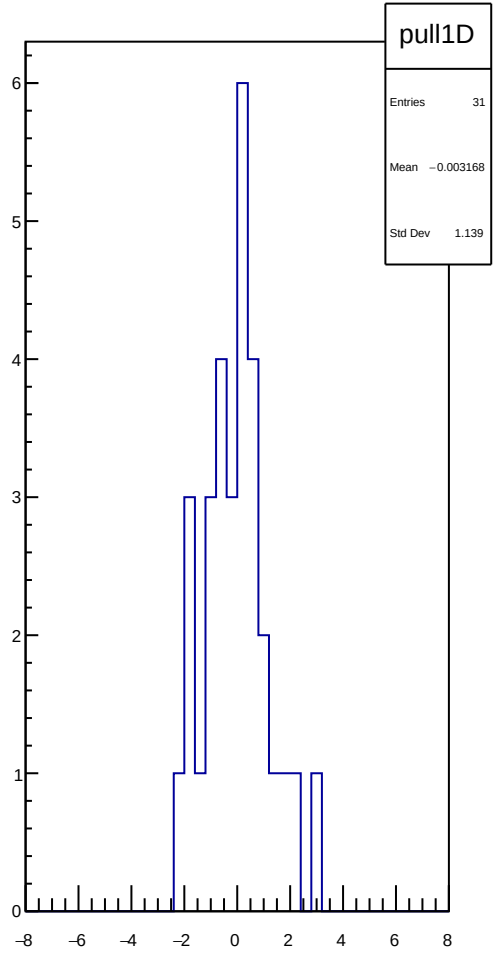

diff_bpm0l01X_rms vs run
χ² / ndf 355.2 / 30
p0 3896 ± 5.051
4300
4200
4100
4000
3900
3800
3700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

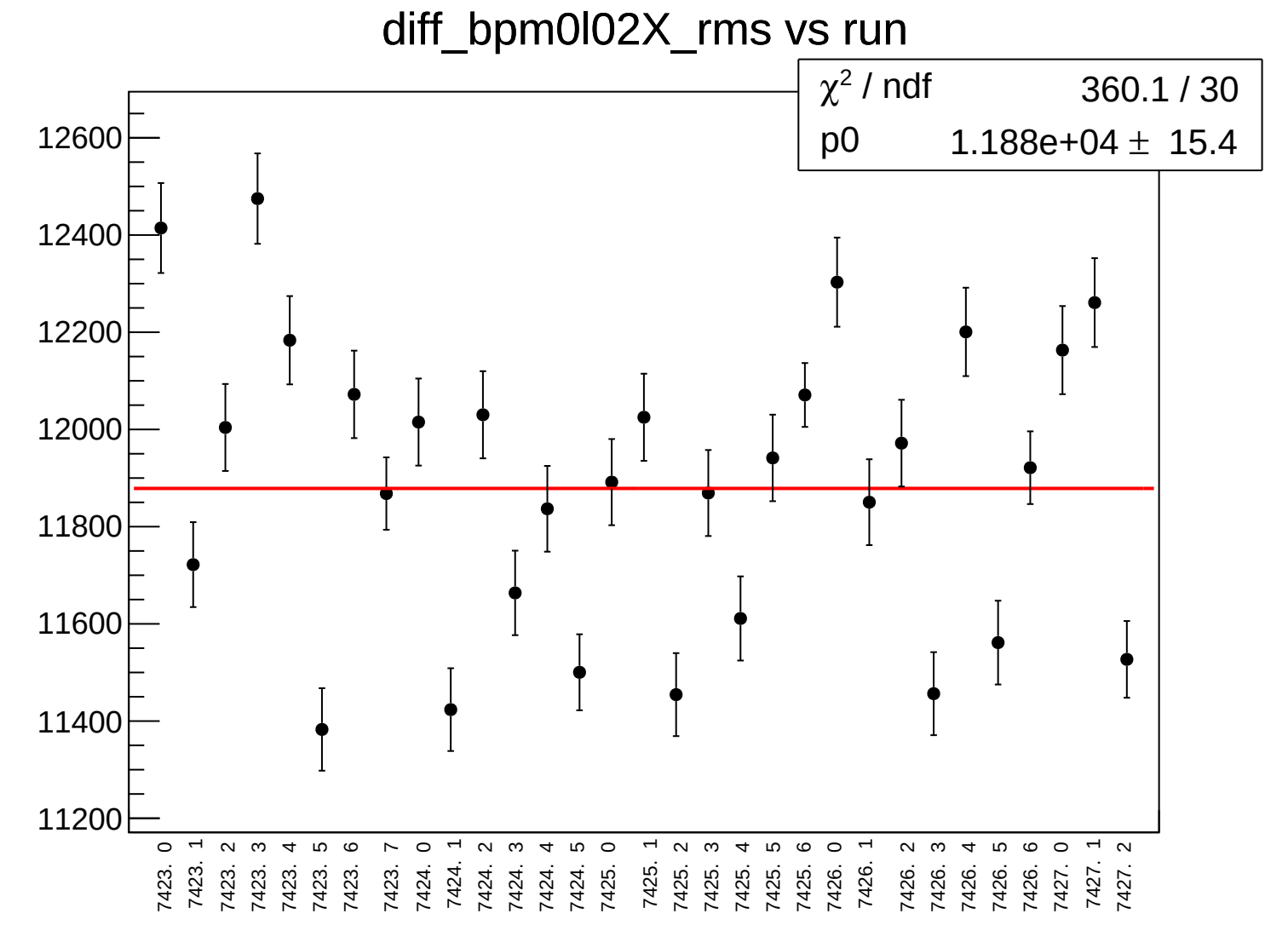

diff_bpm0l01Y_mean vs run
χ² / ndf 59.56 / 30
p0 −16.33 ± 3.934
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −319.9
Std Dev 0
3
2
1
0
−1
−2
−3

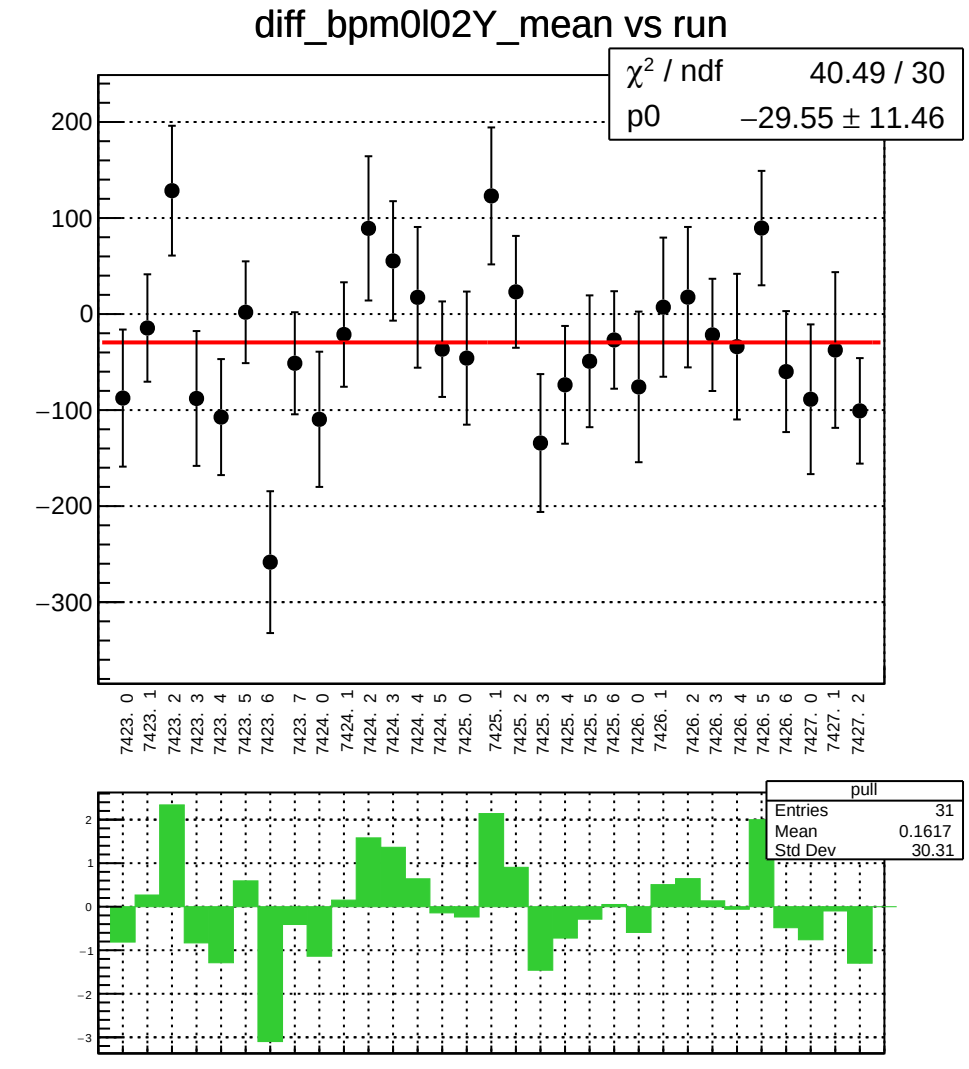

pull1D
Entries 31
Mean 0.003084
Std Dev 1.386
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

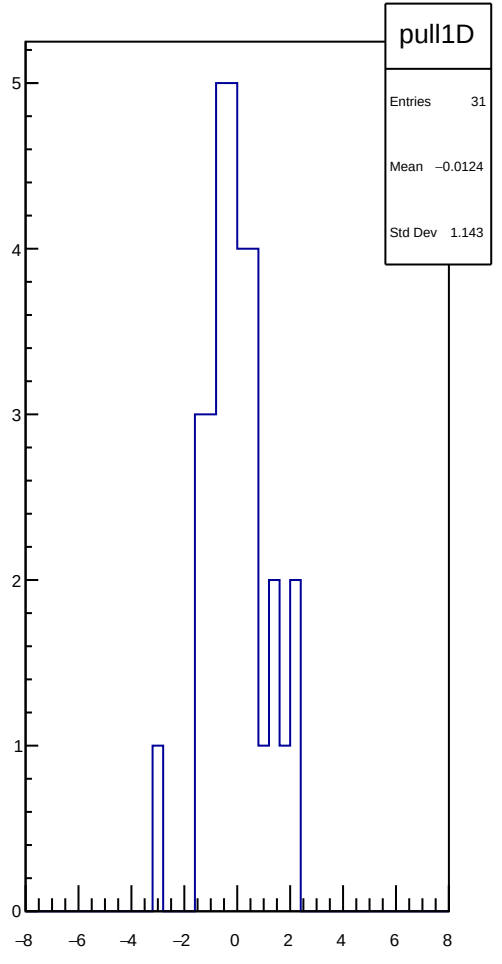

diff_bpm0l01Y_rms vs run
χ² / ndf 3019 / 30
p0 2141 ± 2.782
2500
2400
2300
2200
2100
2000
1900
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

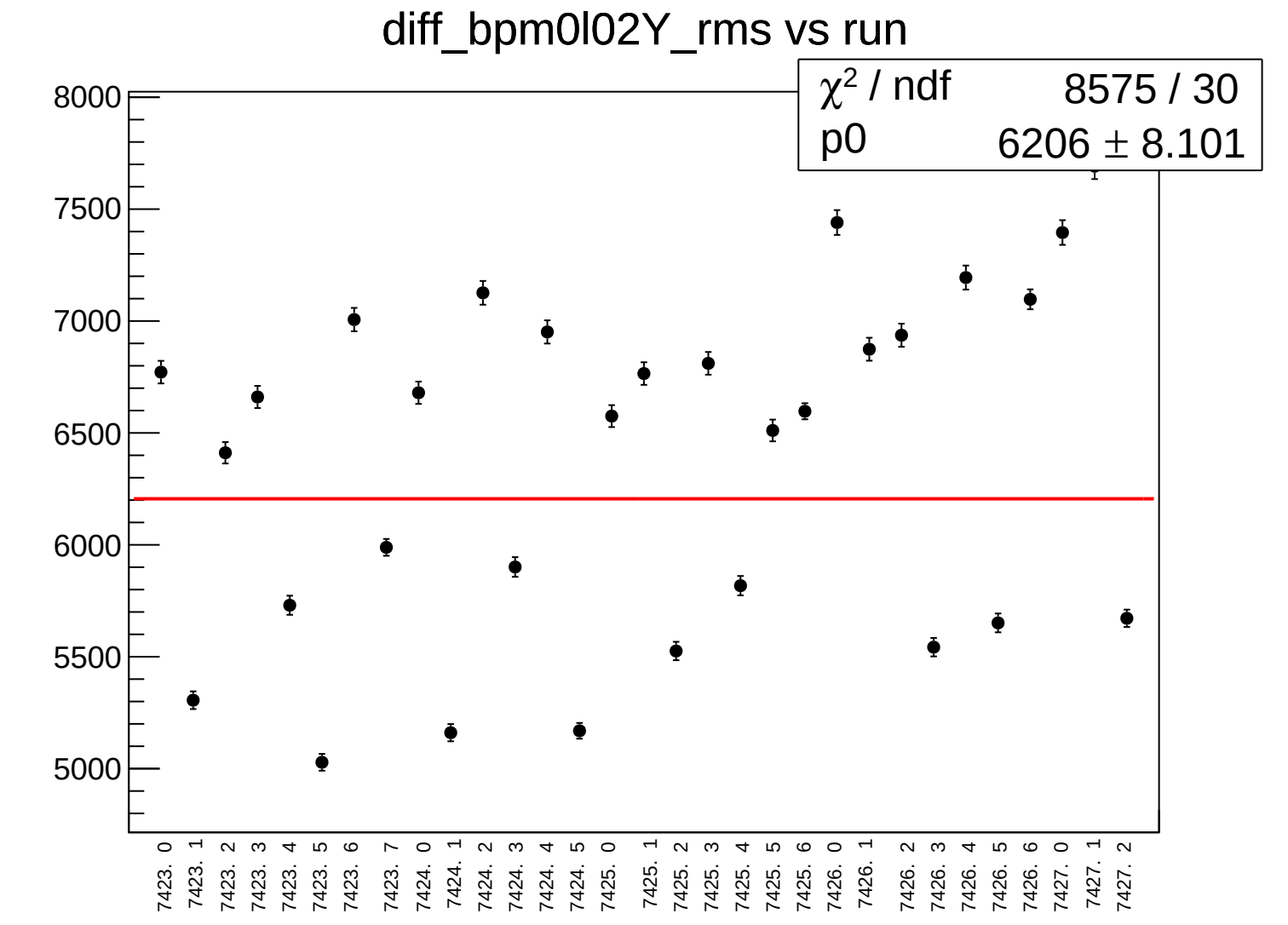

diff_bpm0l02X_mean vs run
χ² / ndf 40.19 / 30
p0 40.69 ± 21.78
600
400
200
0
−200
−400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −174.9
Std Dev 0
3
2
1
0
−1
−2

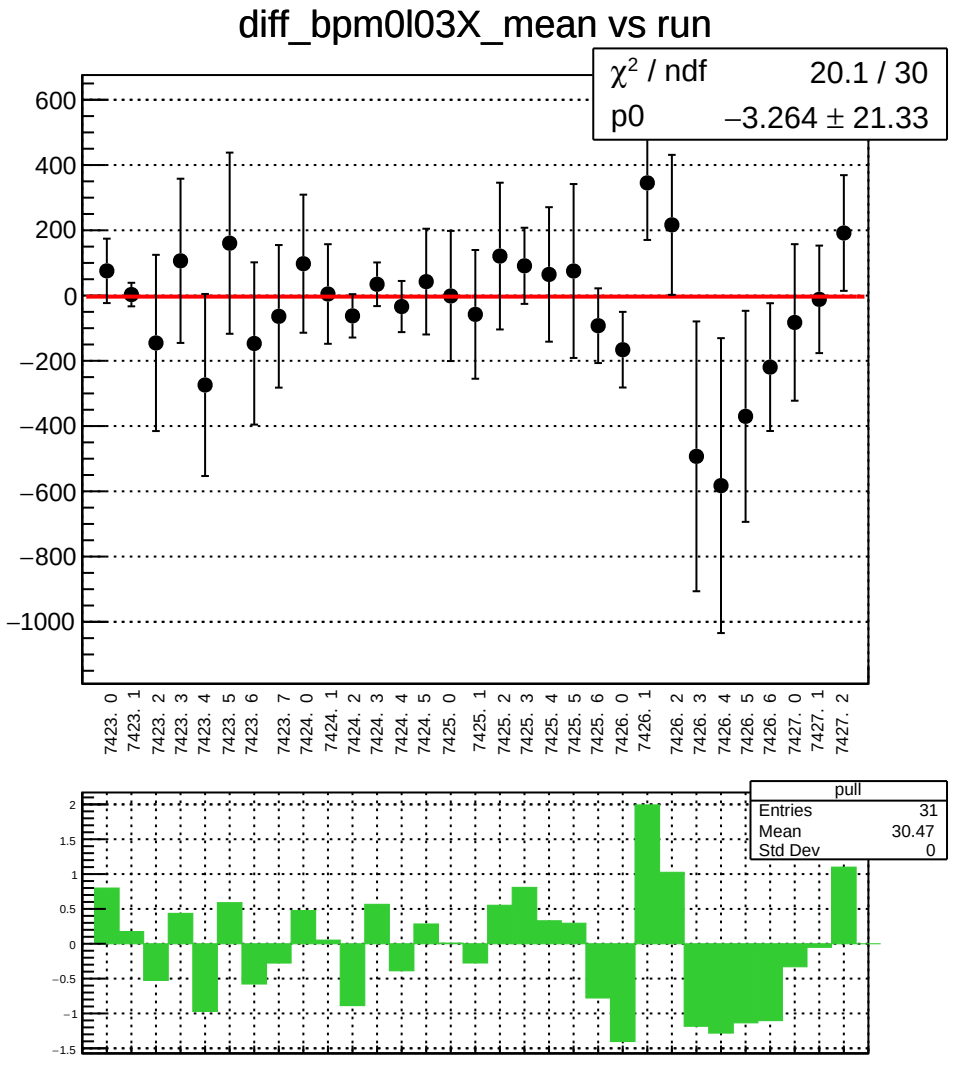

pull1D
Entries 31
Mean −0.003168
Std Dev 1.139
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

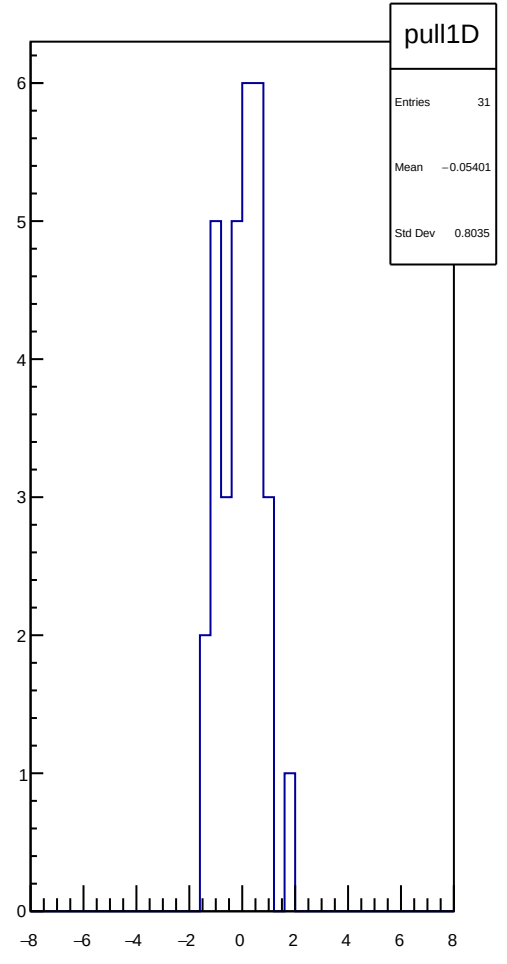

diff_bpm0l02X_rms vs run
χ² / ndf 360.1 / 30
p0 1.188e+04 ± 15.4
12600
12400
12200
12000
11800
11600
11400
11200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

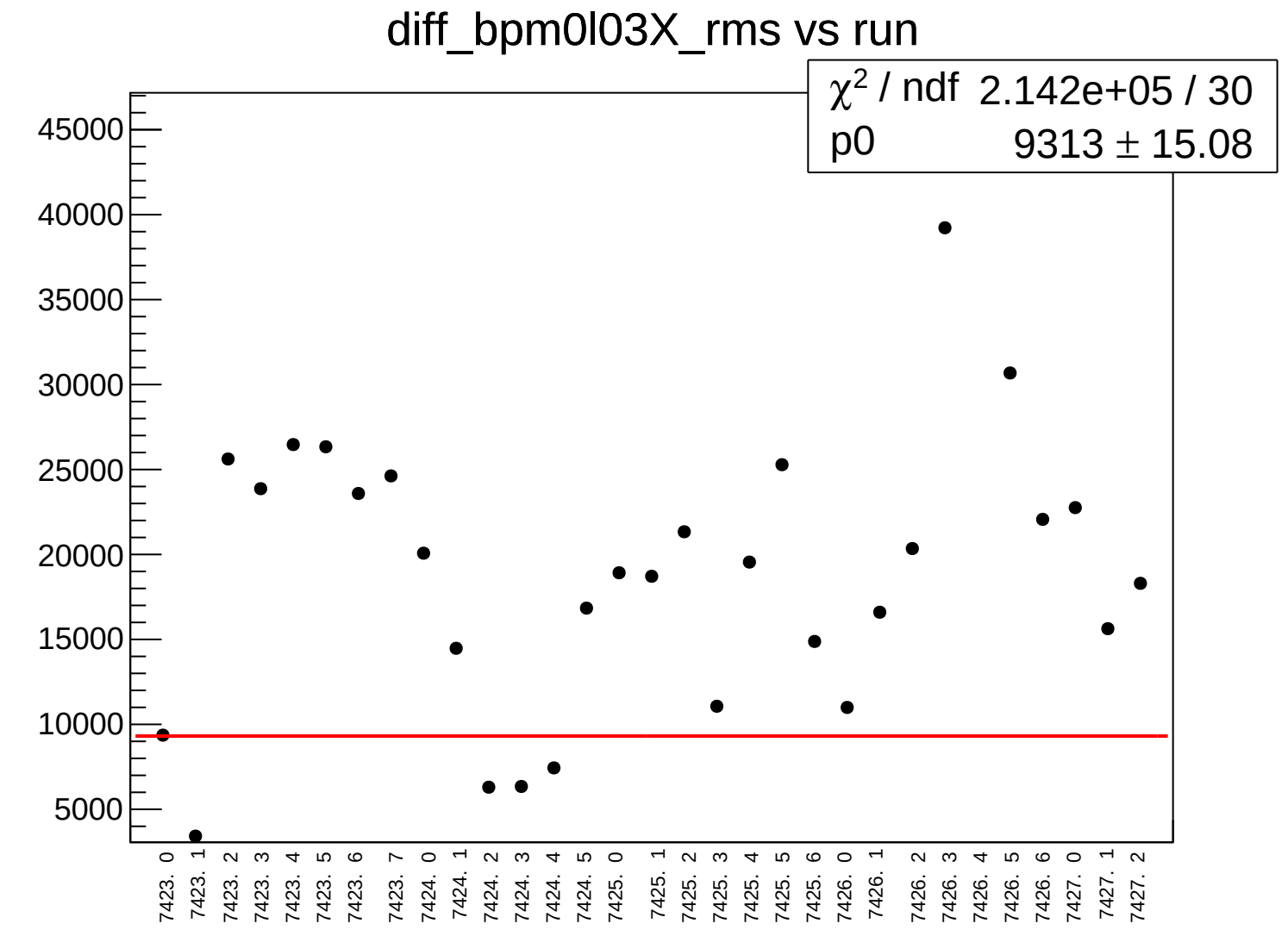

diff_bpm0l02Y_mean vs run
χ² / ndf 40.49 / 30
p0 −29.55 ± 11.46
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 0.1617
Std Dev 30.31
2
1
0
−1
−2
−3

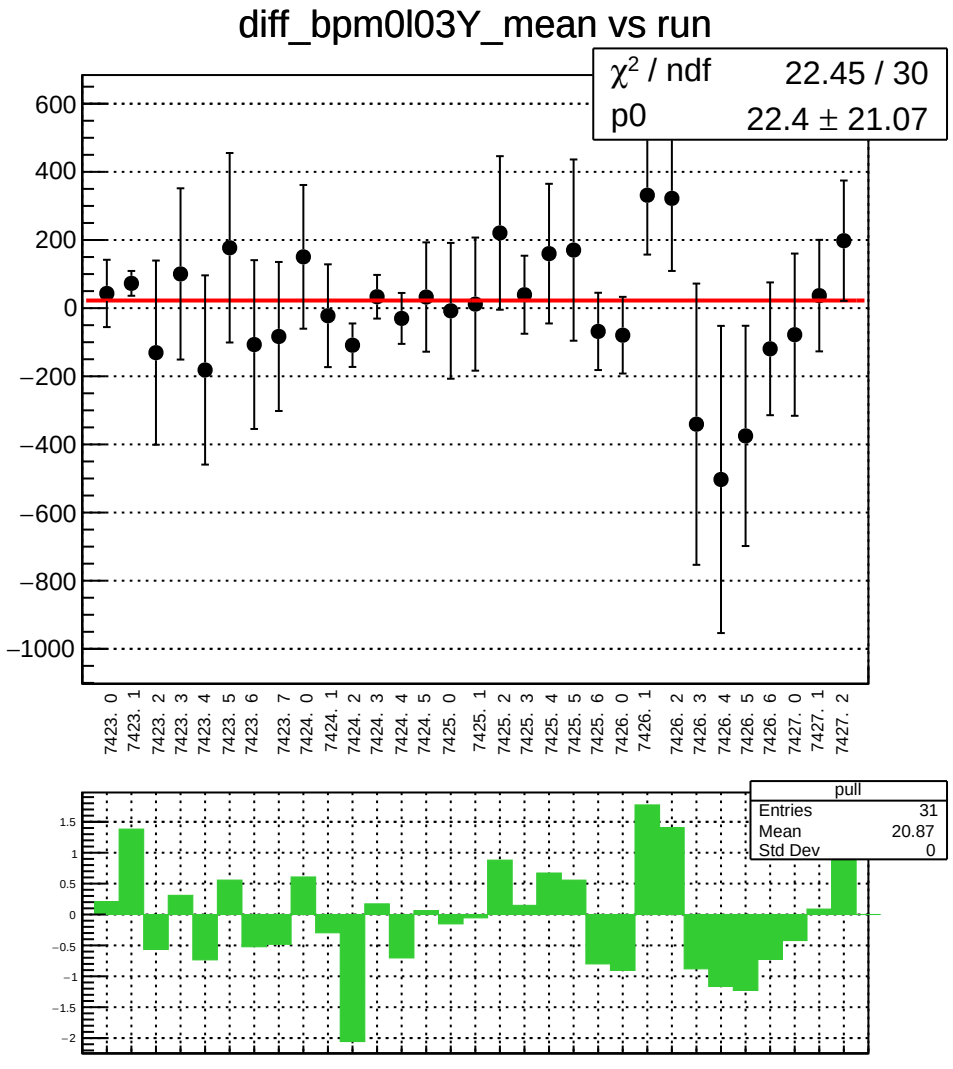

pull1D
Entries 31
Mean −0.0124
Std Dev 1.143
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

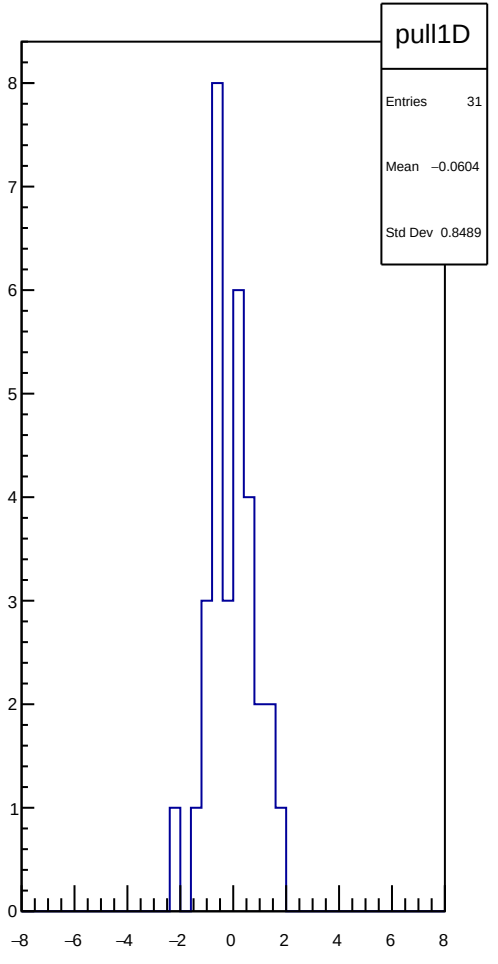

diff_bpm0l02Y_rms vs run
χ² / ndf 8575 / 30
p0 6206 ± 8.101
8000
7500
7000
6500
6000
5500
5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

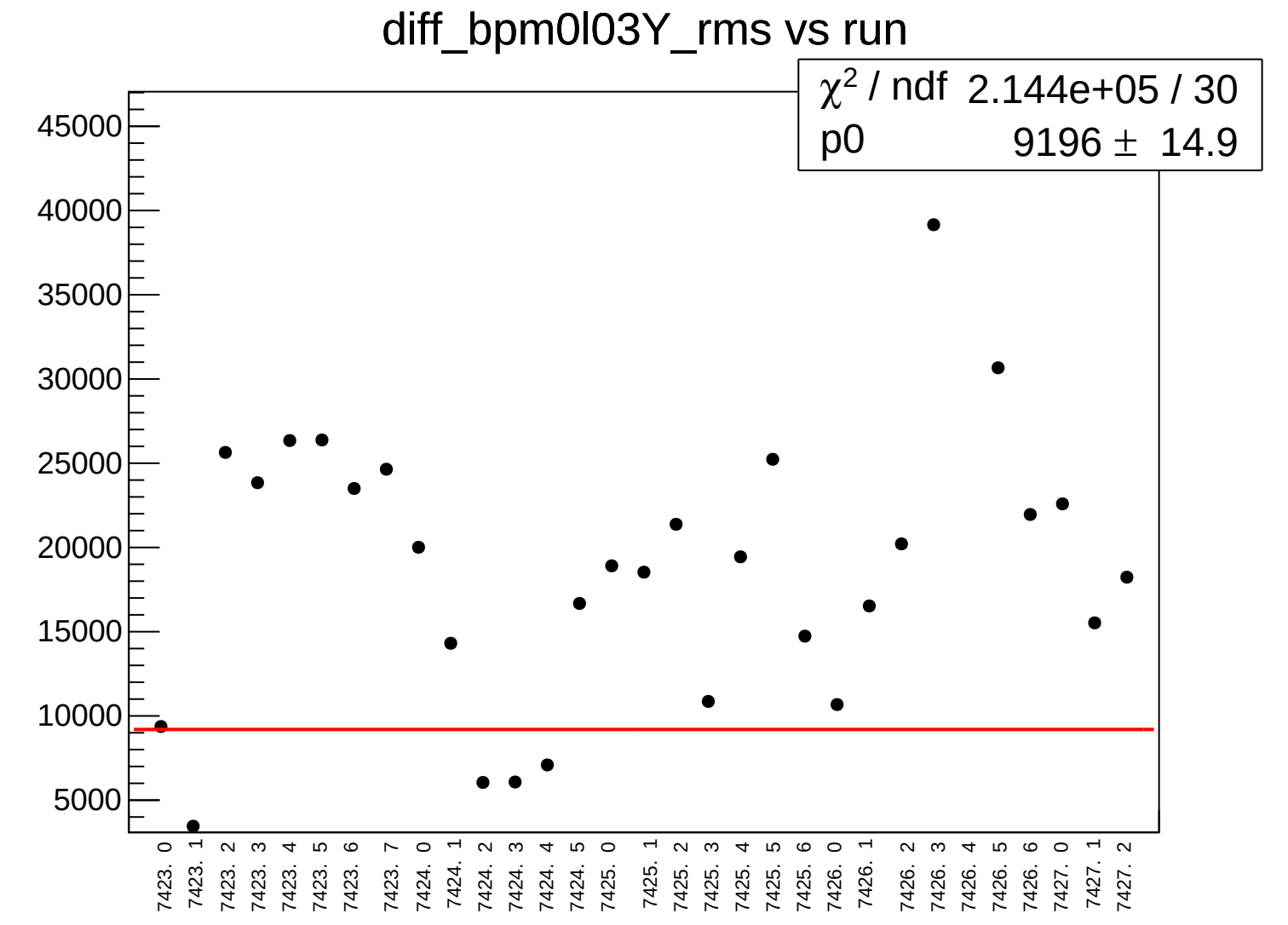

diff_bpm0l03X_mean vs run
χ² / ndf 20.1 / 30
p0 −3.264 ± 21.33
600
400
200
0
−200
−400
−600
−800
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 30.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

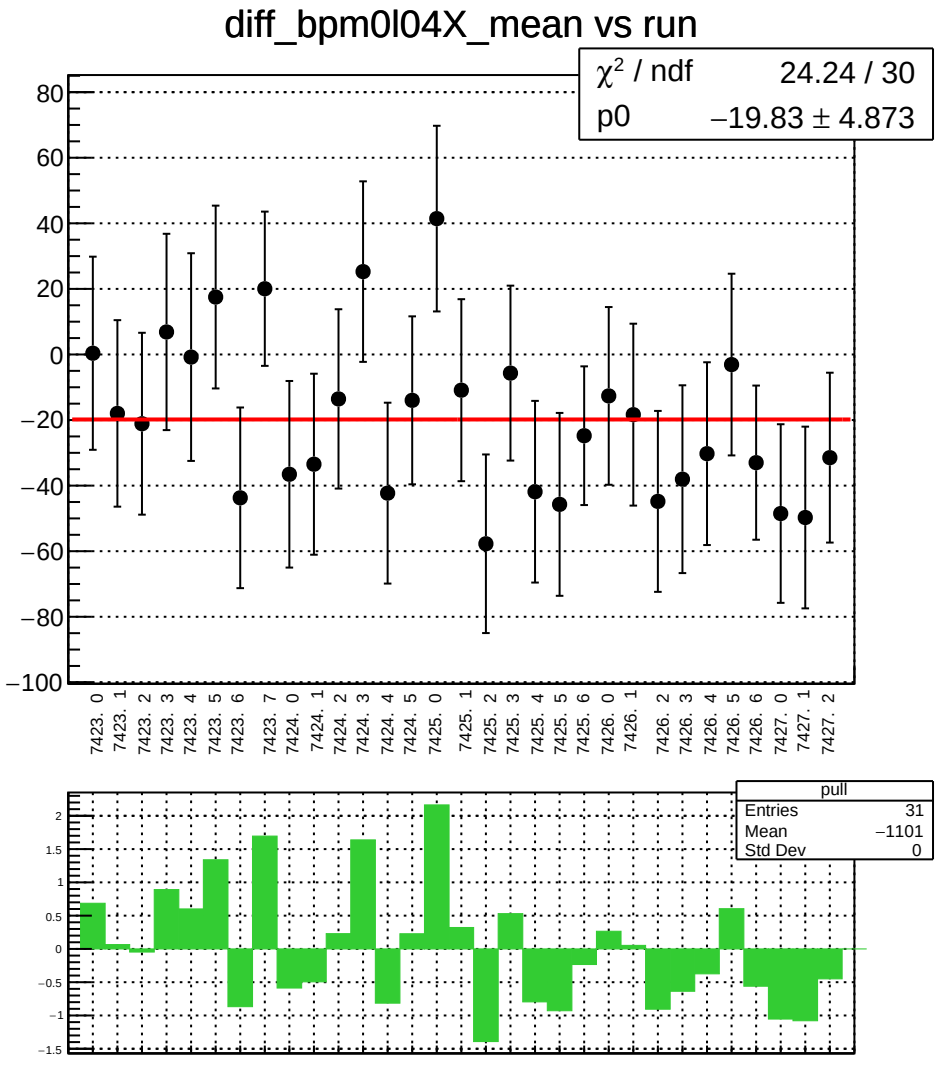

pull1D
Entries 31
Mean −0.05401
Std Dev 0.8035
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

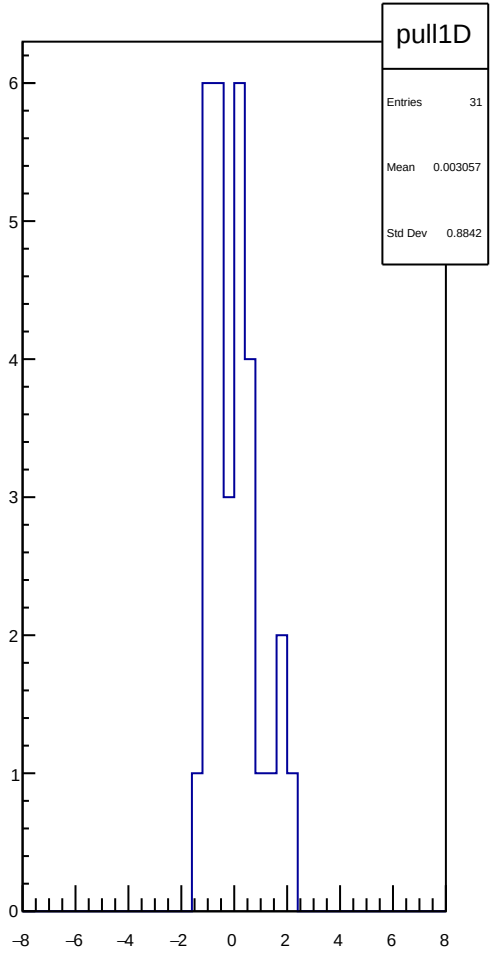

diff_bpm0l03X_rms vs run
χ² / ndf 2.142e+05 / 30
p0 9313 ± 15.08
45000
40000
35000
30000
25000
20000
15000
10000
5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

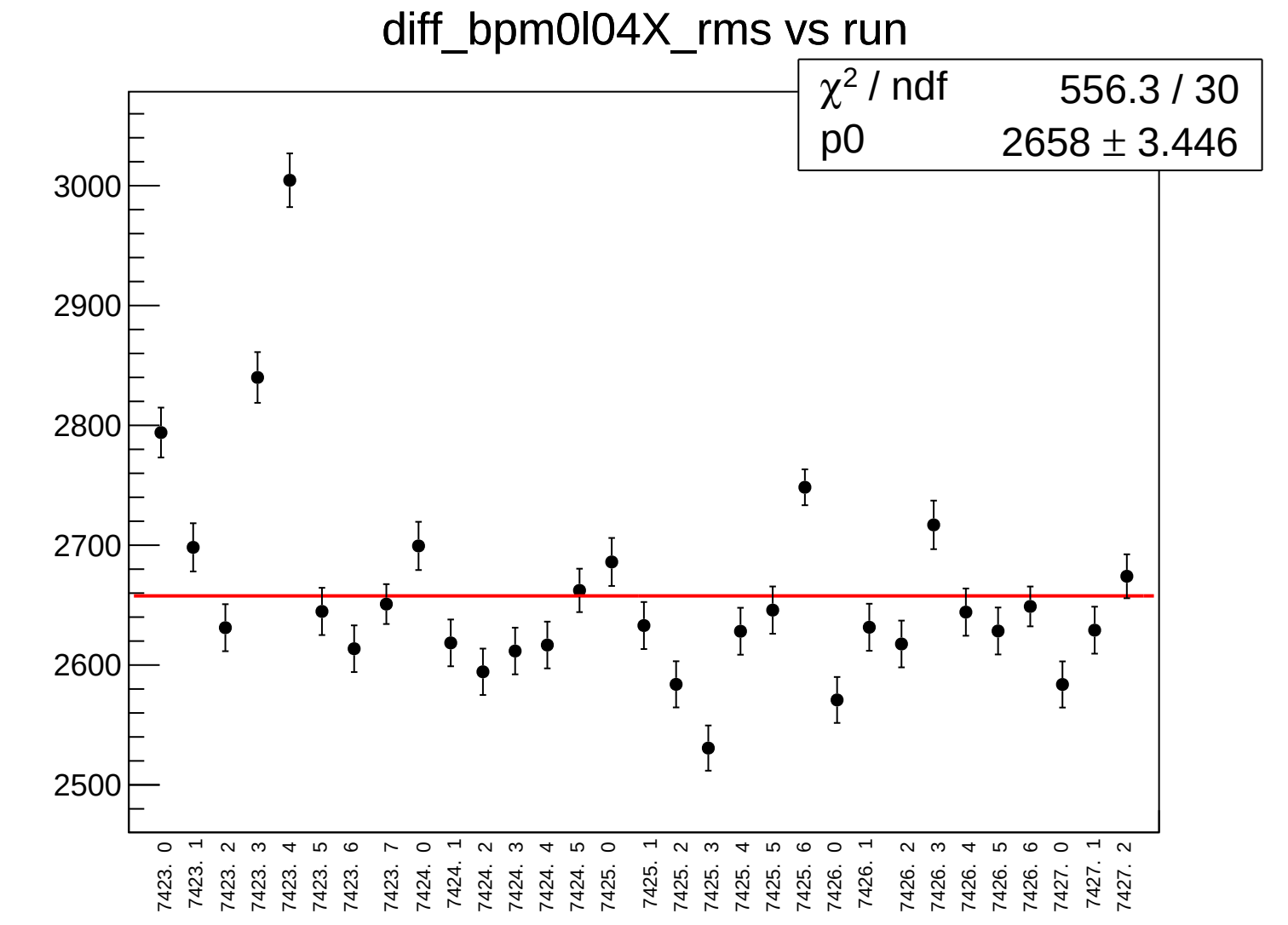

diff_bpm0l03Y_mean vs run
χ² / ndf 22.45 / 30
p0 22.4 ± 21.07
600
400
200
0
−200
−400
−600
−800
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 20.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

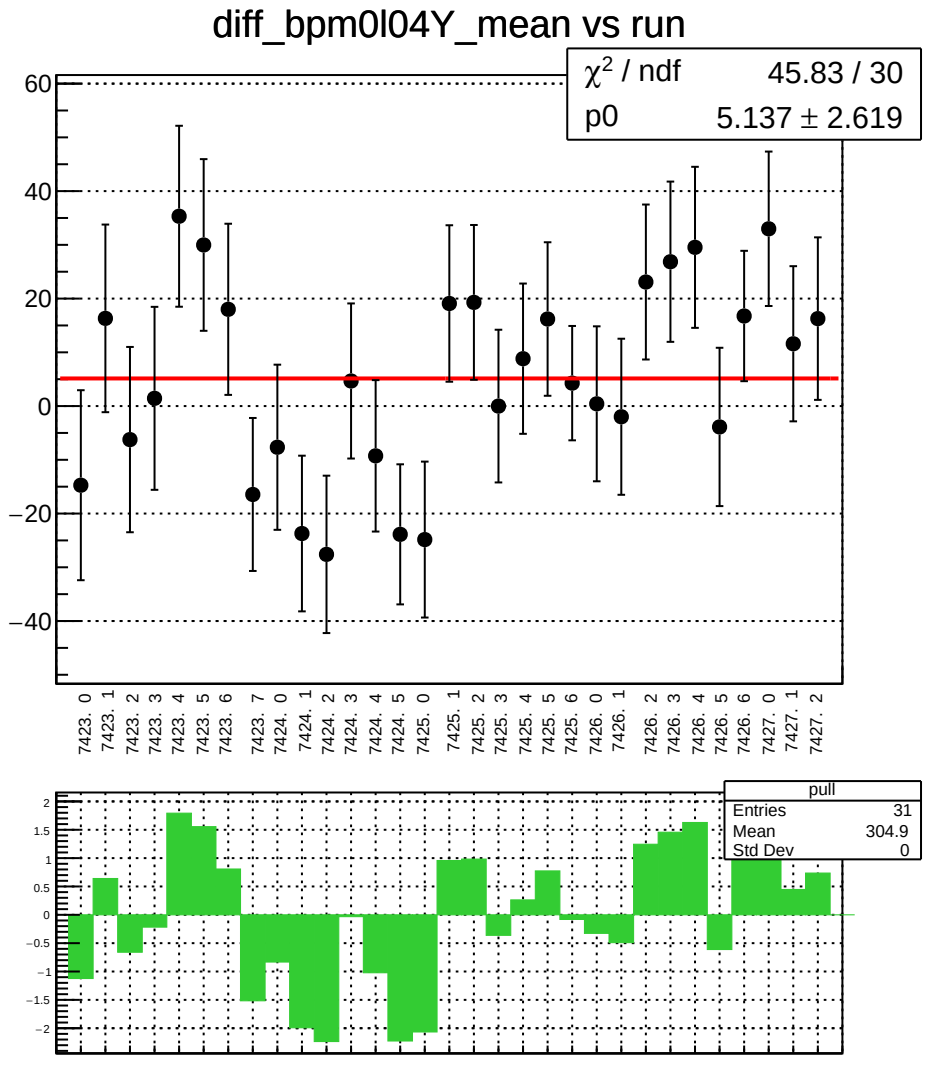

pull1D
Entries 31
Mean −0.0604
Std Dev 0.8489
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

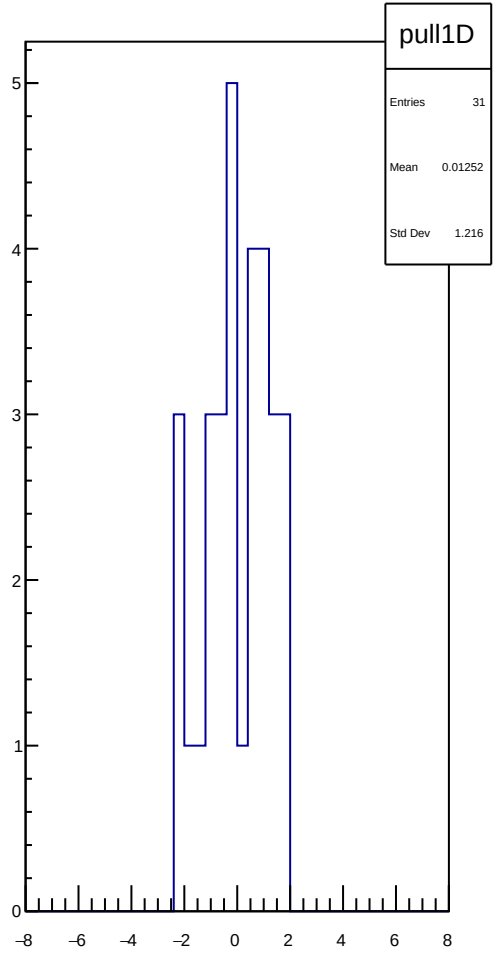

diff_bpm0l03Y_rms vs run
χ² / ndf 2.144e+05 / 30
p0 9196 ± 14.9
45000
40000
35000
30000
25000
20000
15000
10000
5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

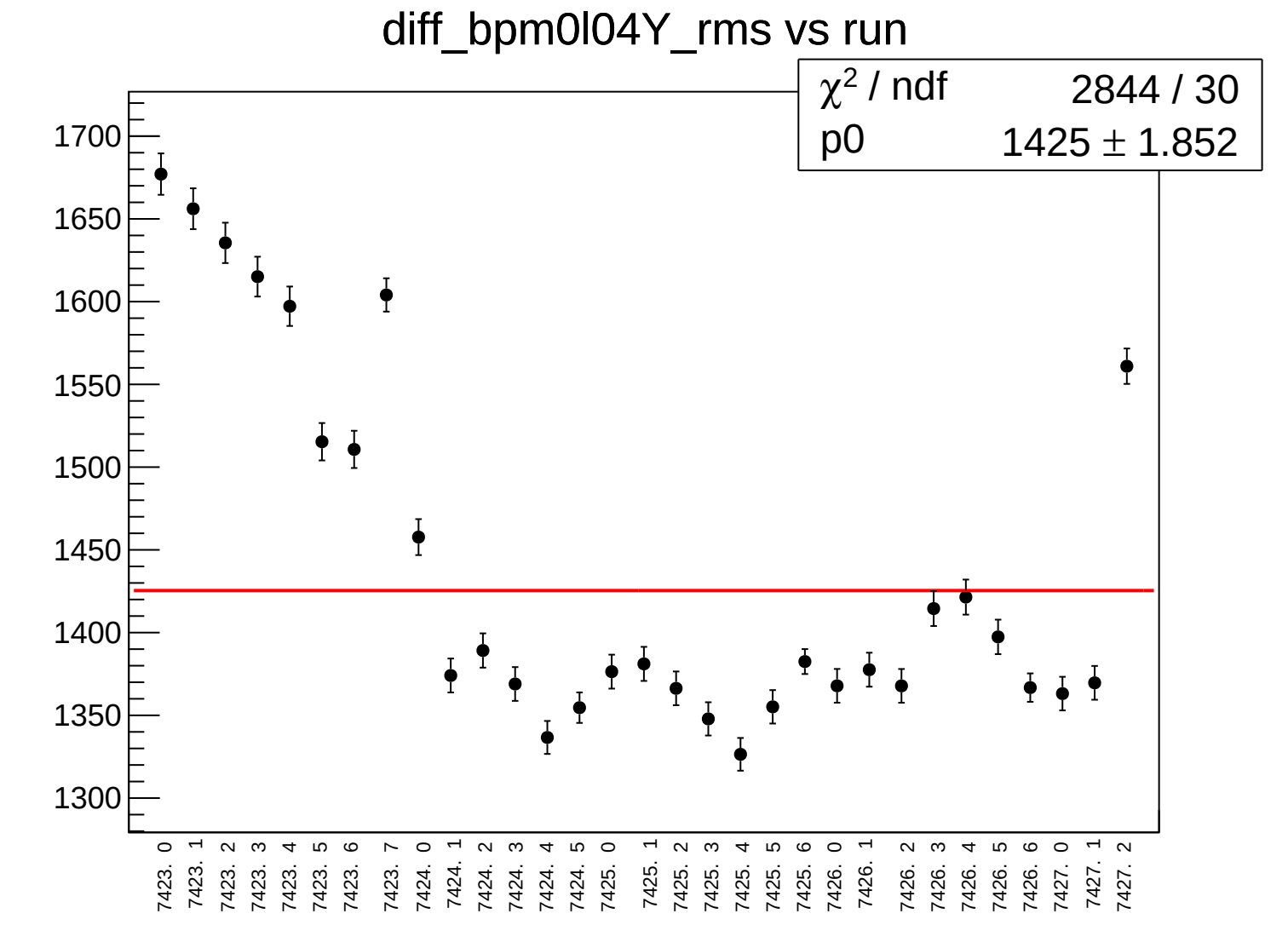

diff_bpm0l04X_mean vs run
χ² / ndf 24.24 / 30
p0 −19.83 ± 4.873
pull
Entries 31
Mean −1101
Std Dev 0

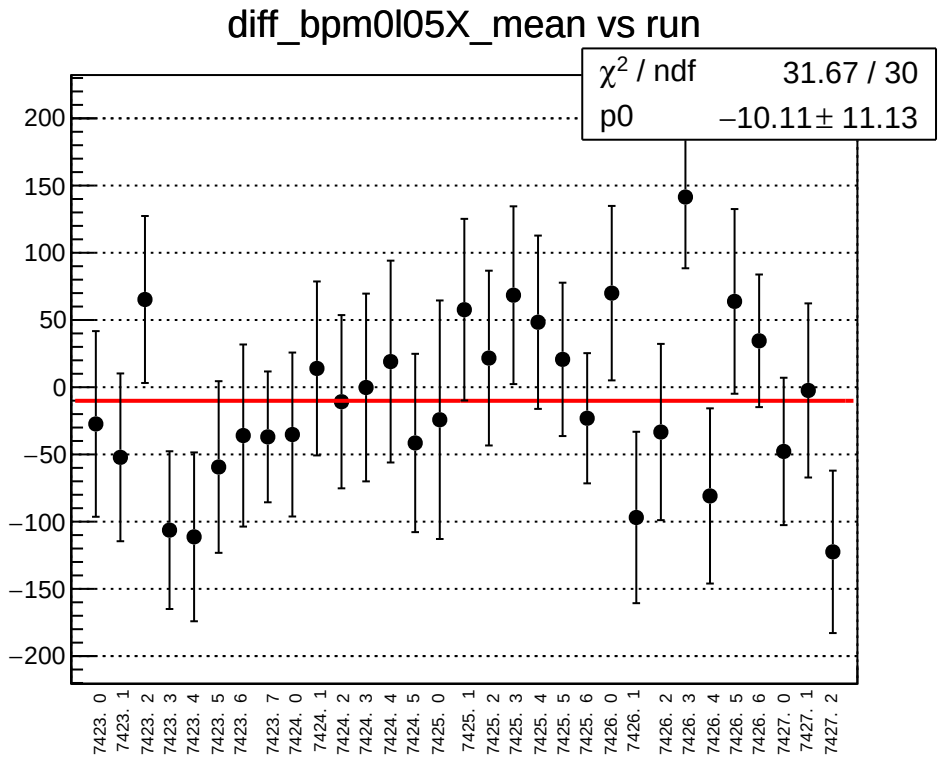

pull1D
Entries 31
Mean 0.003057
Std Dev 0.8842

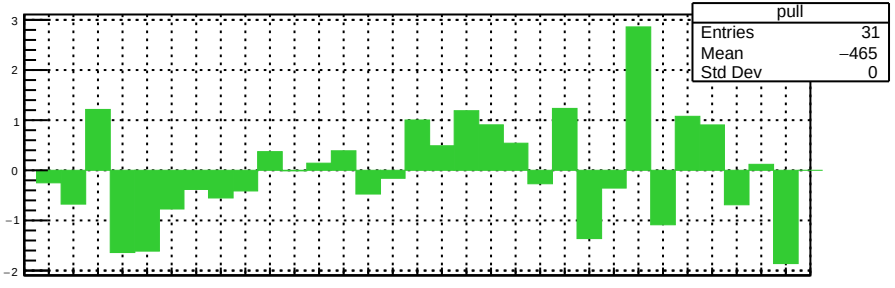

diff_bpm0l04X_rms vs run
χ² / ndf 556.3 / 30
p0 2658 ± 3.446
3000
2900
2800
2700
2600
2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

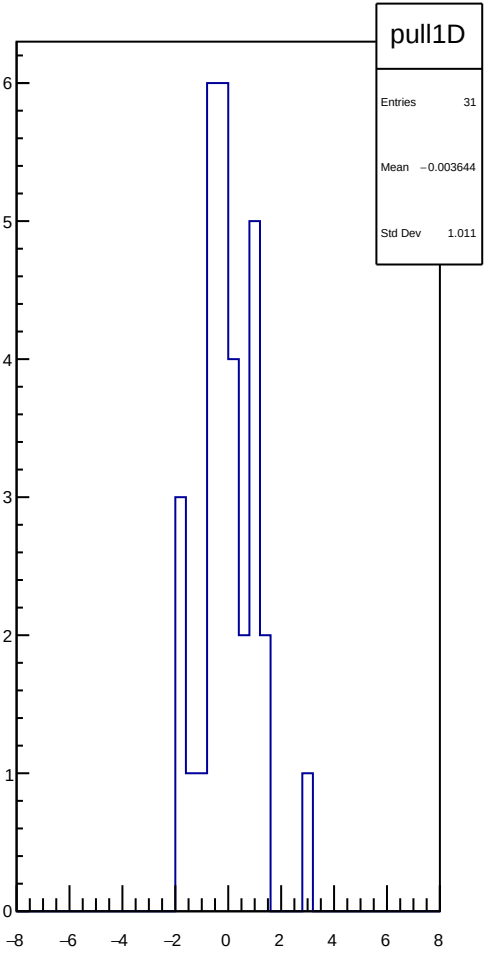

diff_bpm0l04Y_mean vs run
χ² / ndf 45.83 / 30
p0 5.137 ± 2.619
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 304.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

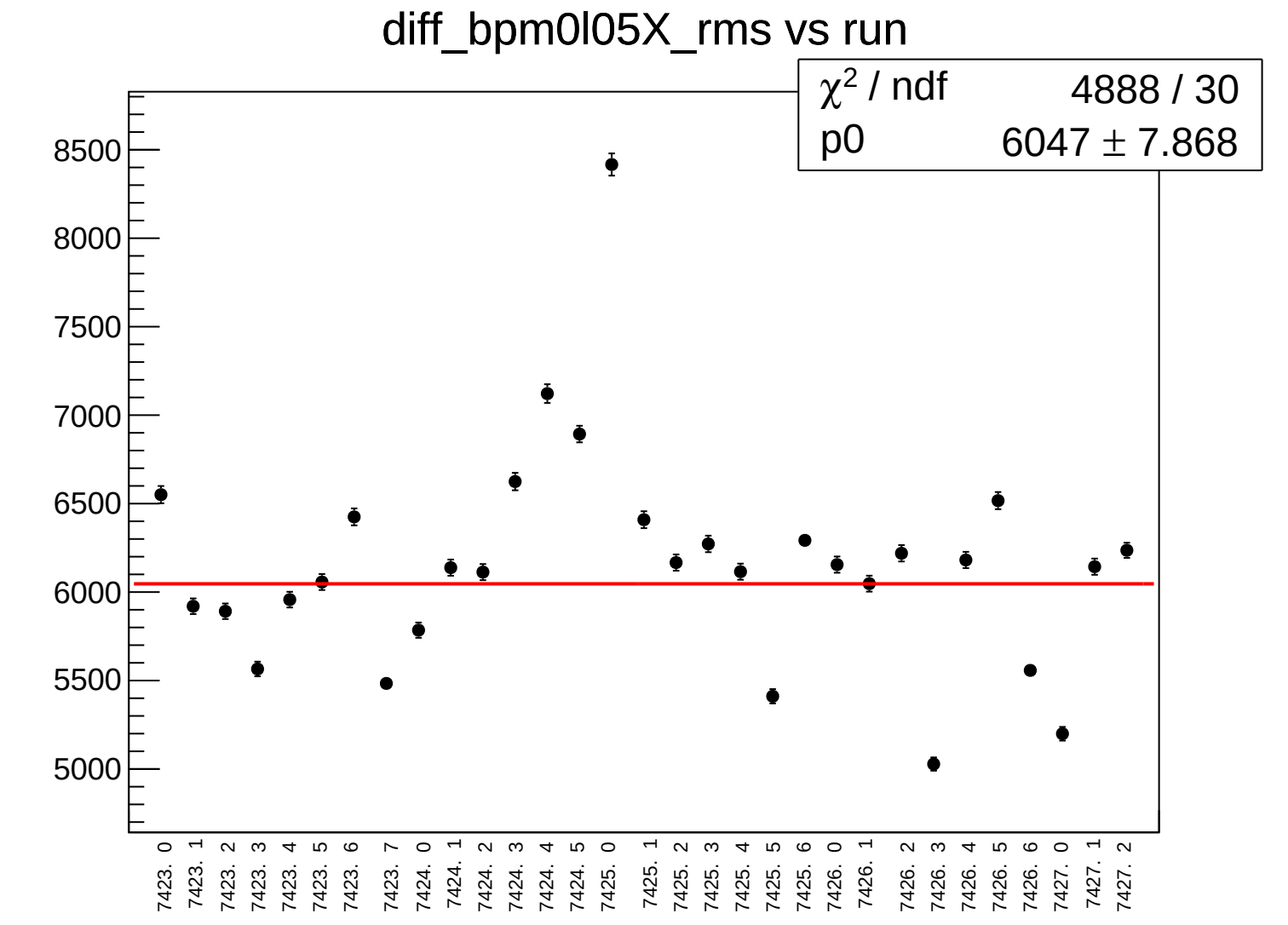

pull1D
Entries 31
Mean 0.01252
Std Dev 1.216
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

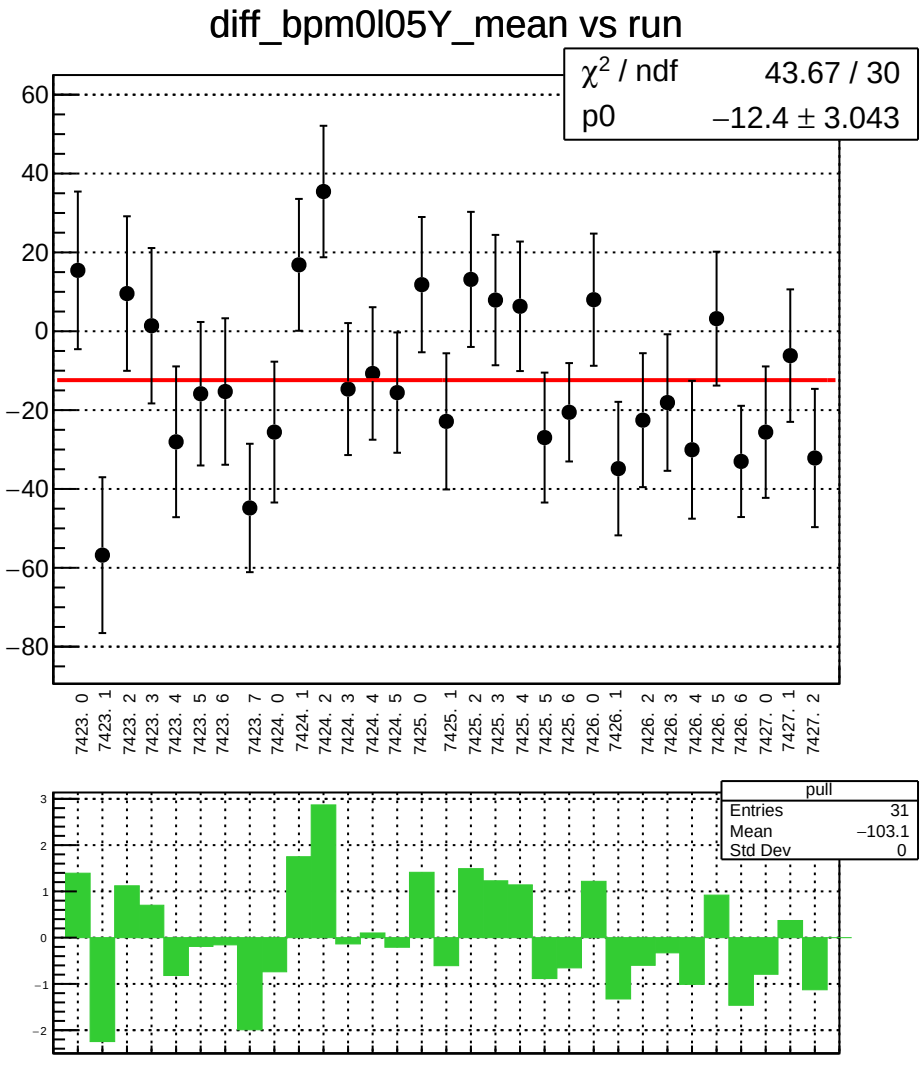

diff_bpm0l04Y_rms vs run
χ² / ndf 2844 / 30
p0 1425 ± 1.852
1700
1650
1600
1550
1500
1450
1400
1350
1300
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

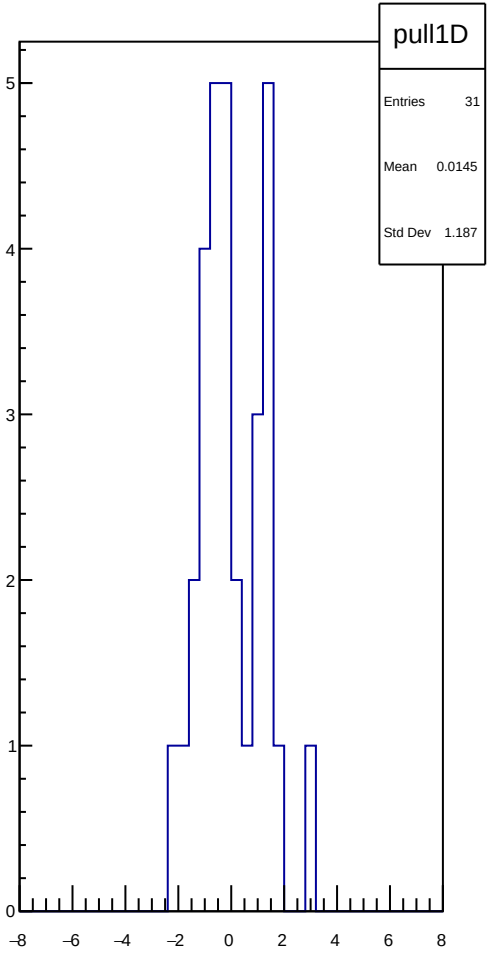

diff_bpm0l05X_mean vs run
χ² / ndf 31.67 / 30
p0 −10.11± 11.13
200
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

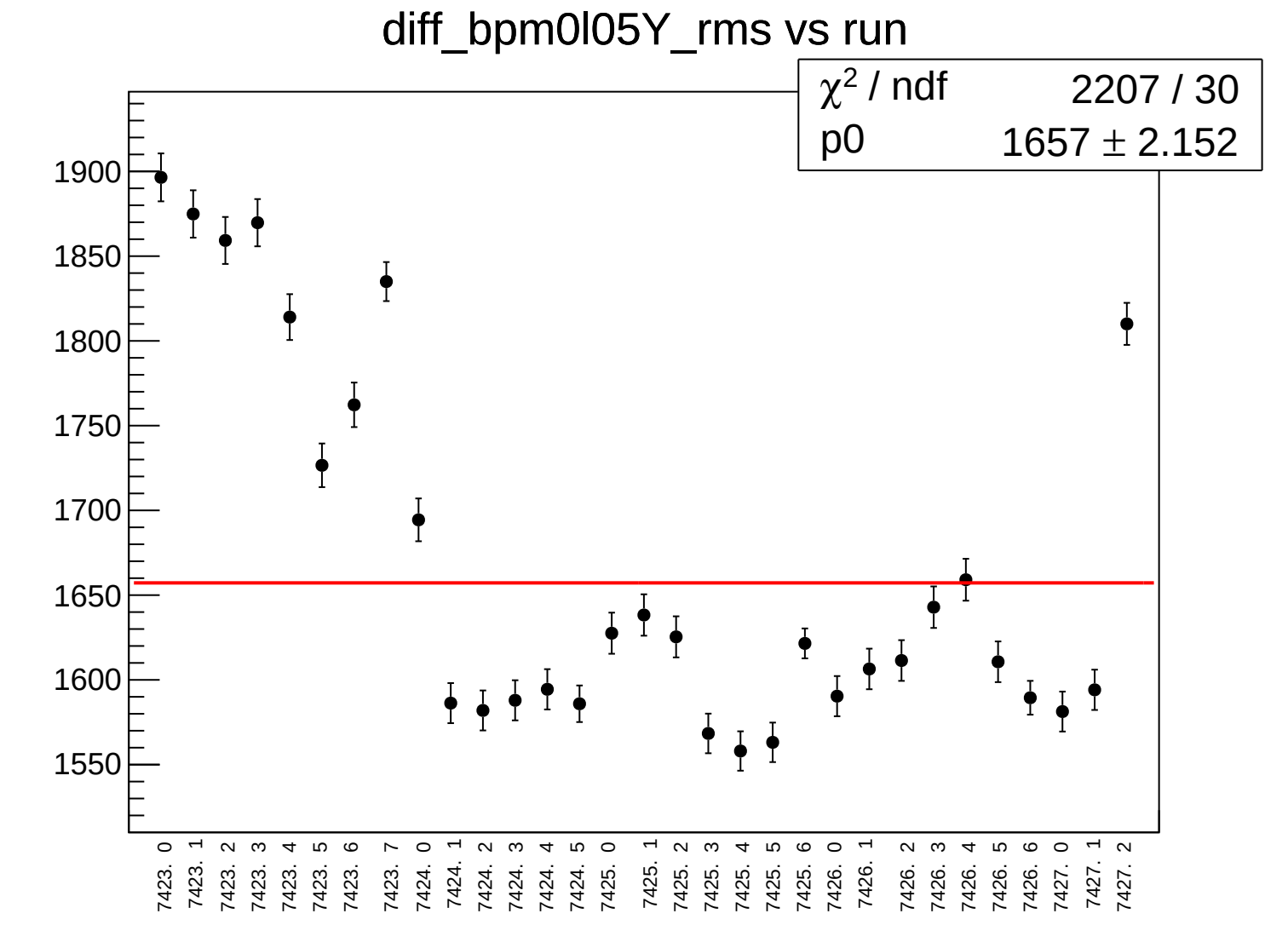

pull
Entries 31
Mean −465
Std Dev 0
3
2
1
0
−1
−2

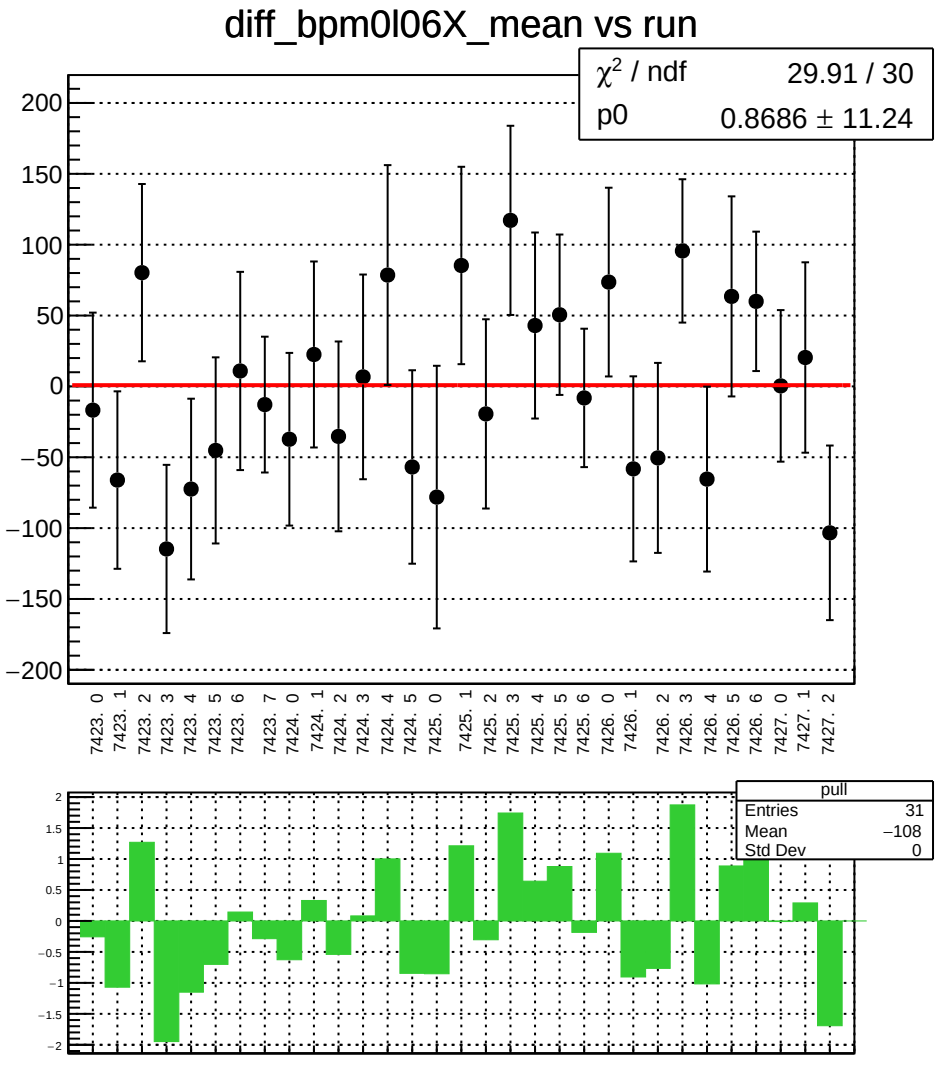

pull1D
Entries 31
Mean −0.003644
Std Dev 1.011
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

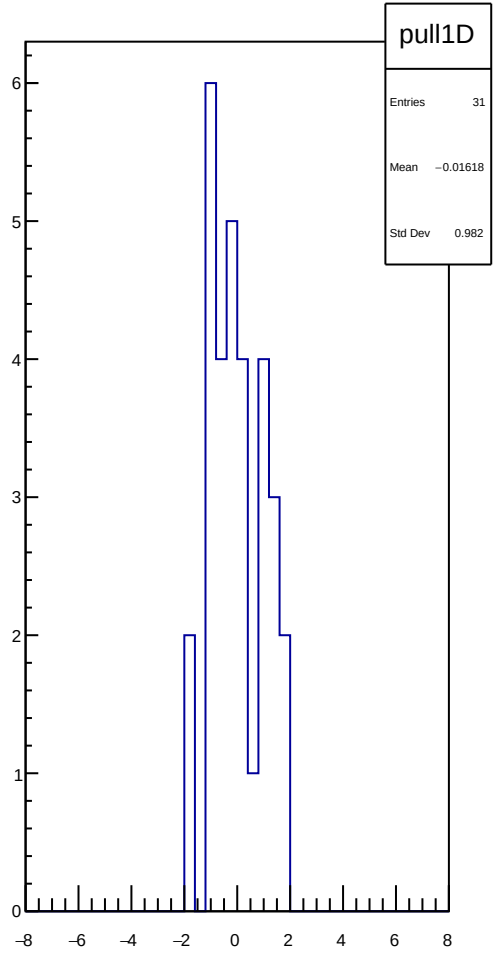

diff_bpm0l05X_rms vs run
χ² / ndf 4888 / 30
p0 6047 ± 7.868
8500
8000
7500
7000
6500
6000
5500
5000
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

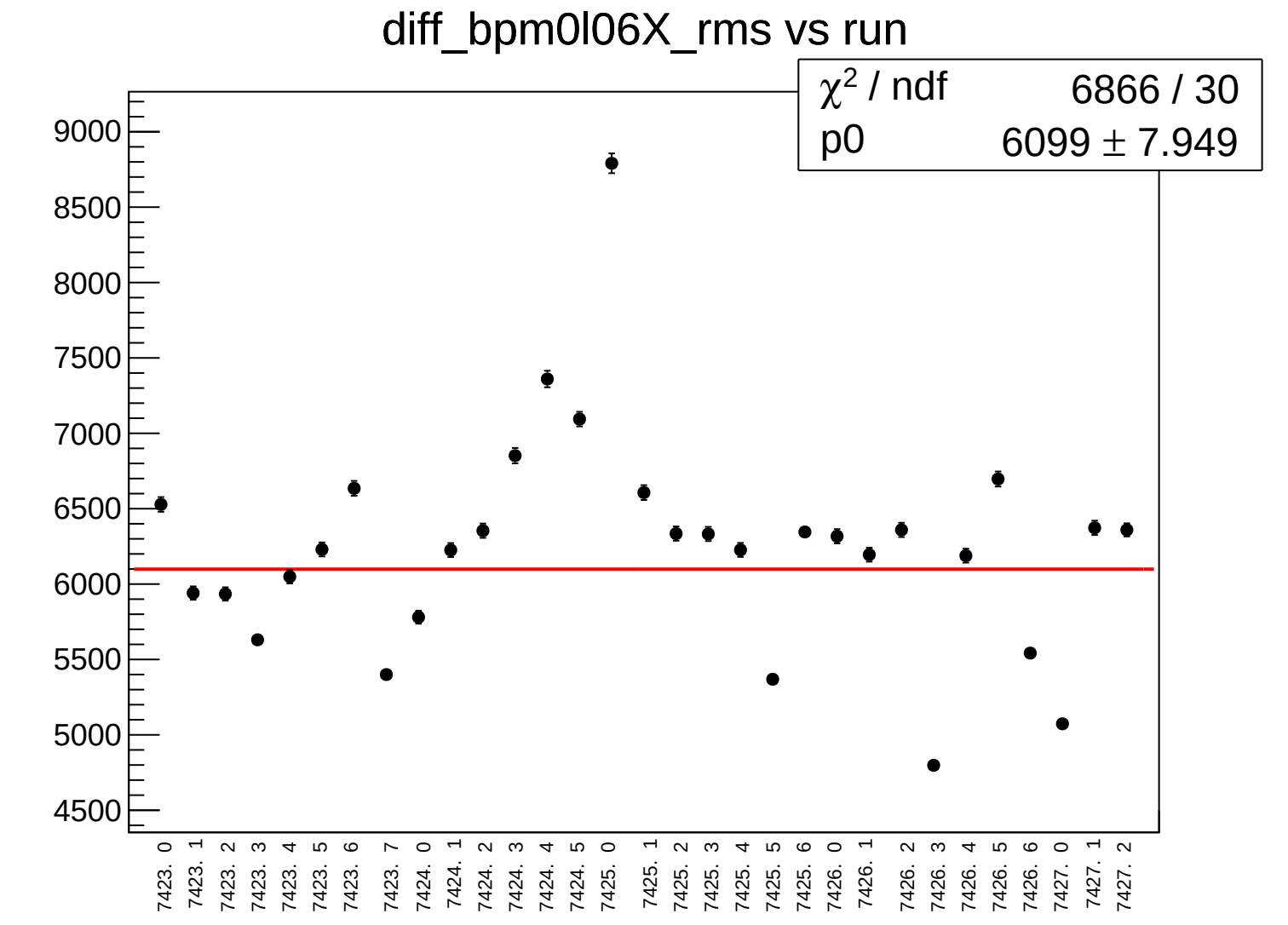

diff_bpm0l05Y_mean vs run
χ² / ndf 43.67 / 30
p0 −12.4 ± 3.043
60
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −103.1
Std Dev 0
3
2
1
0
−1
−2

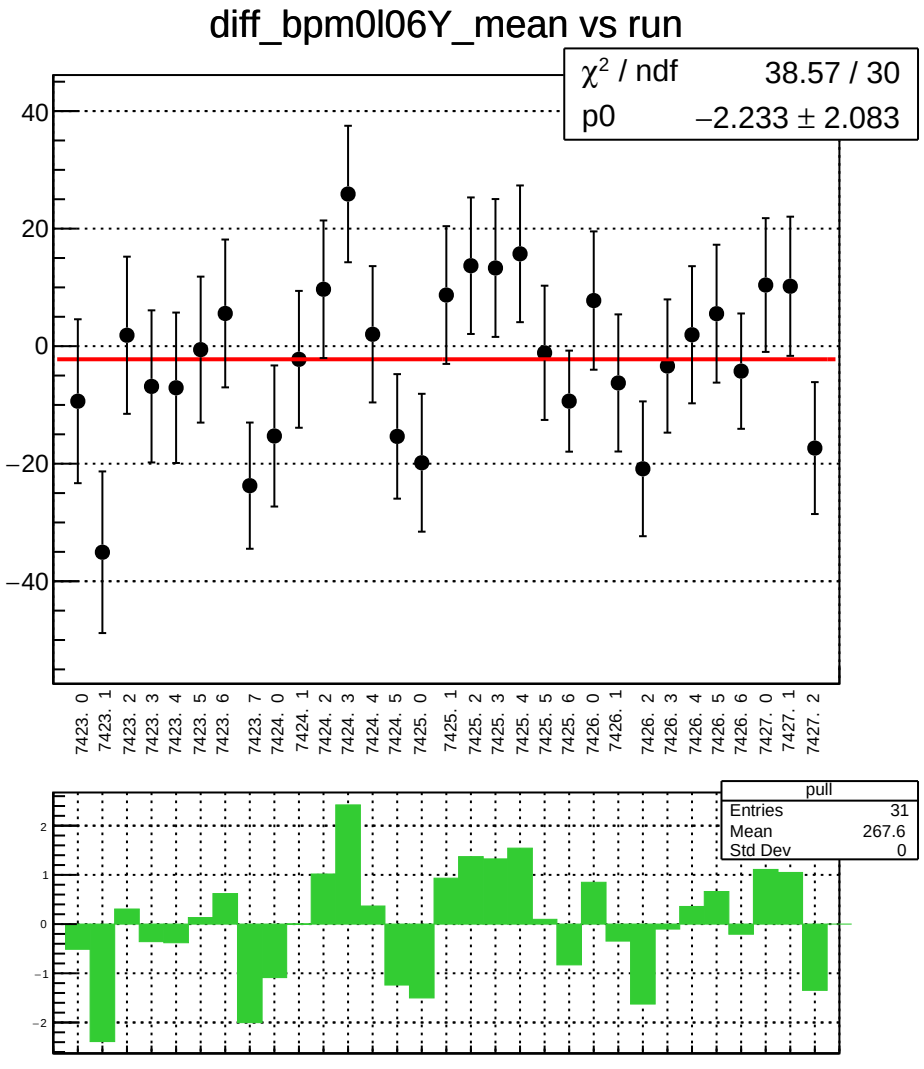

pull1D
Entries 31
Mean 0.0145
Std Dev 1.187
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

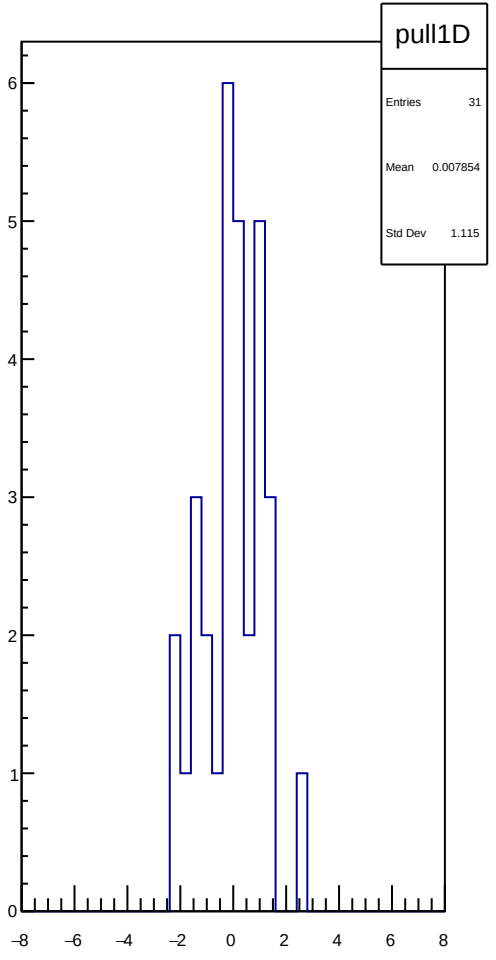

diff_bpm0l05Y_rms vs run
χ² / ndf 2207 / 30
p0 1657 ± 2.152
1900
1850
1800
1750
1700
1650
1600
1550
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

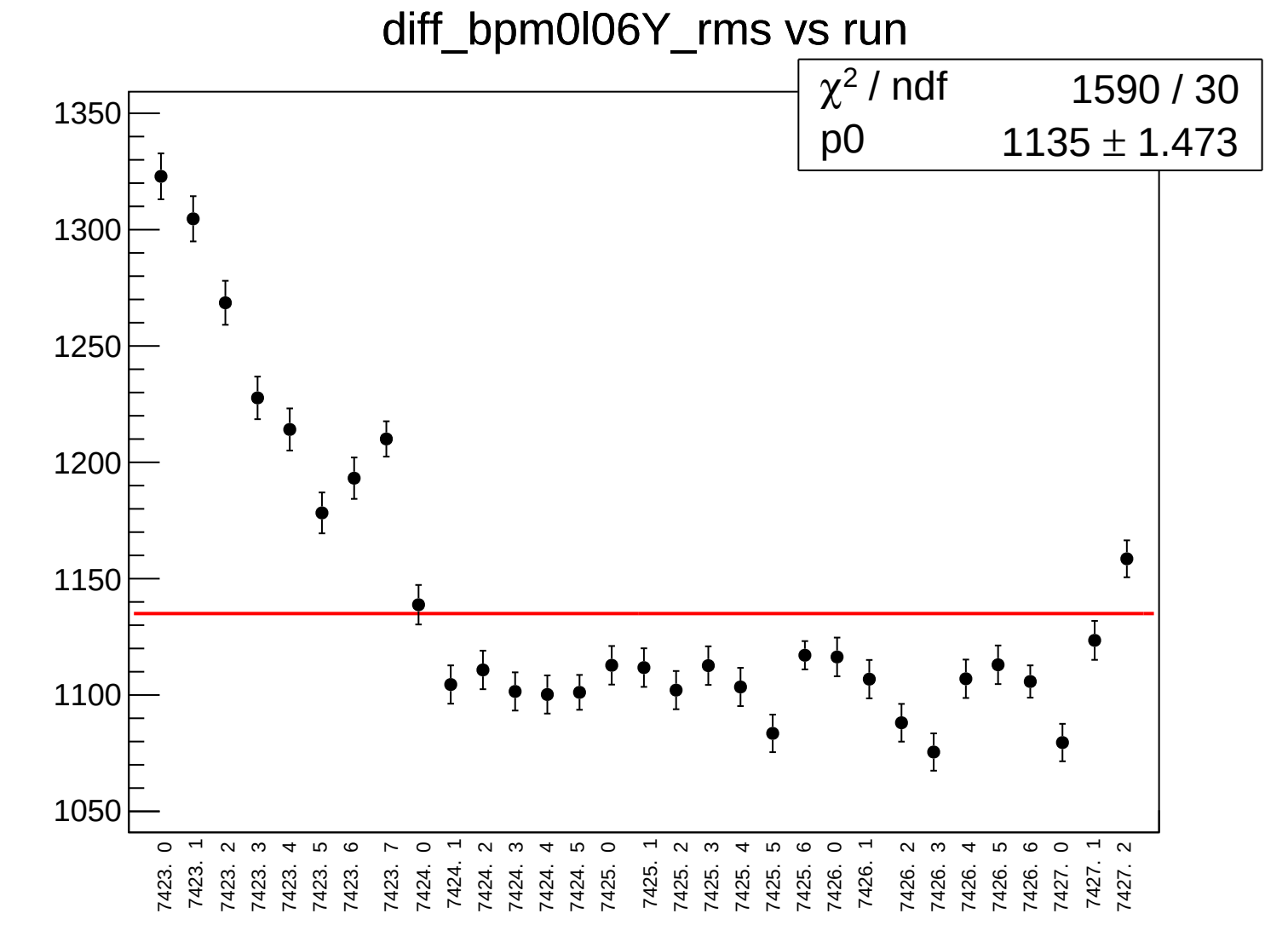

diff_bpm0l06X_mean vs run
χ² / ndf 29.91 / 30
p0 0.8686 ± 11.24
200
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −108
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

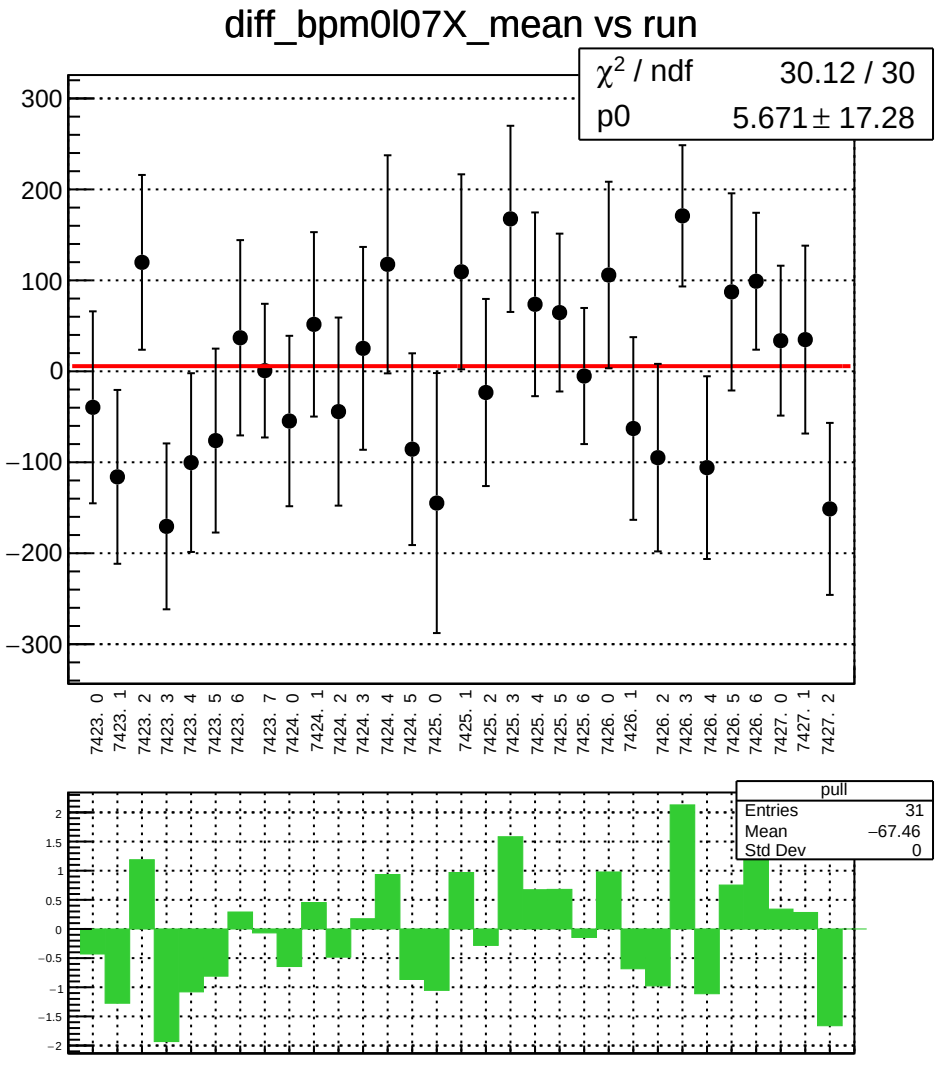

pull1D
Entries 31
Mean −0.01618
Std Dev 0.982
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

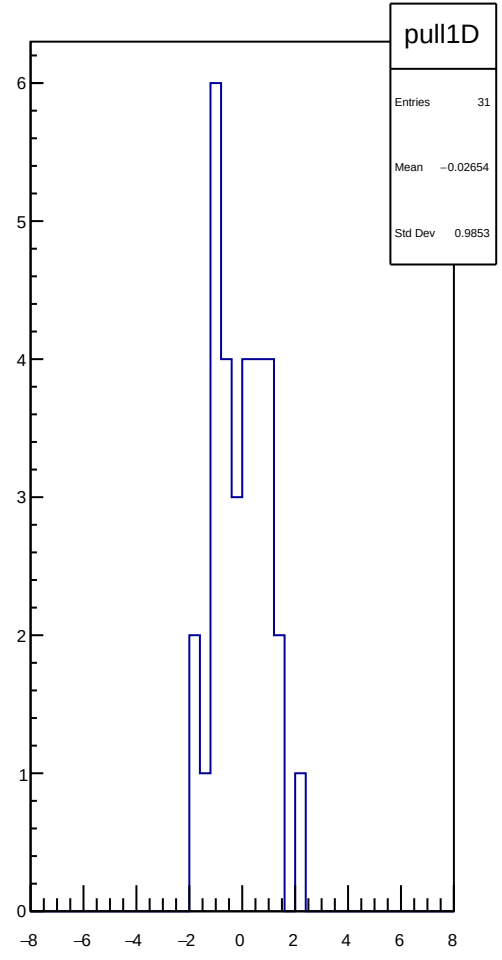

diff_bpm0l06X_rms vs run
χ² / ndf 6866 / 30
p0 6099 ± 7.949
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

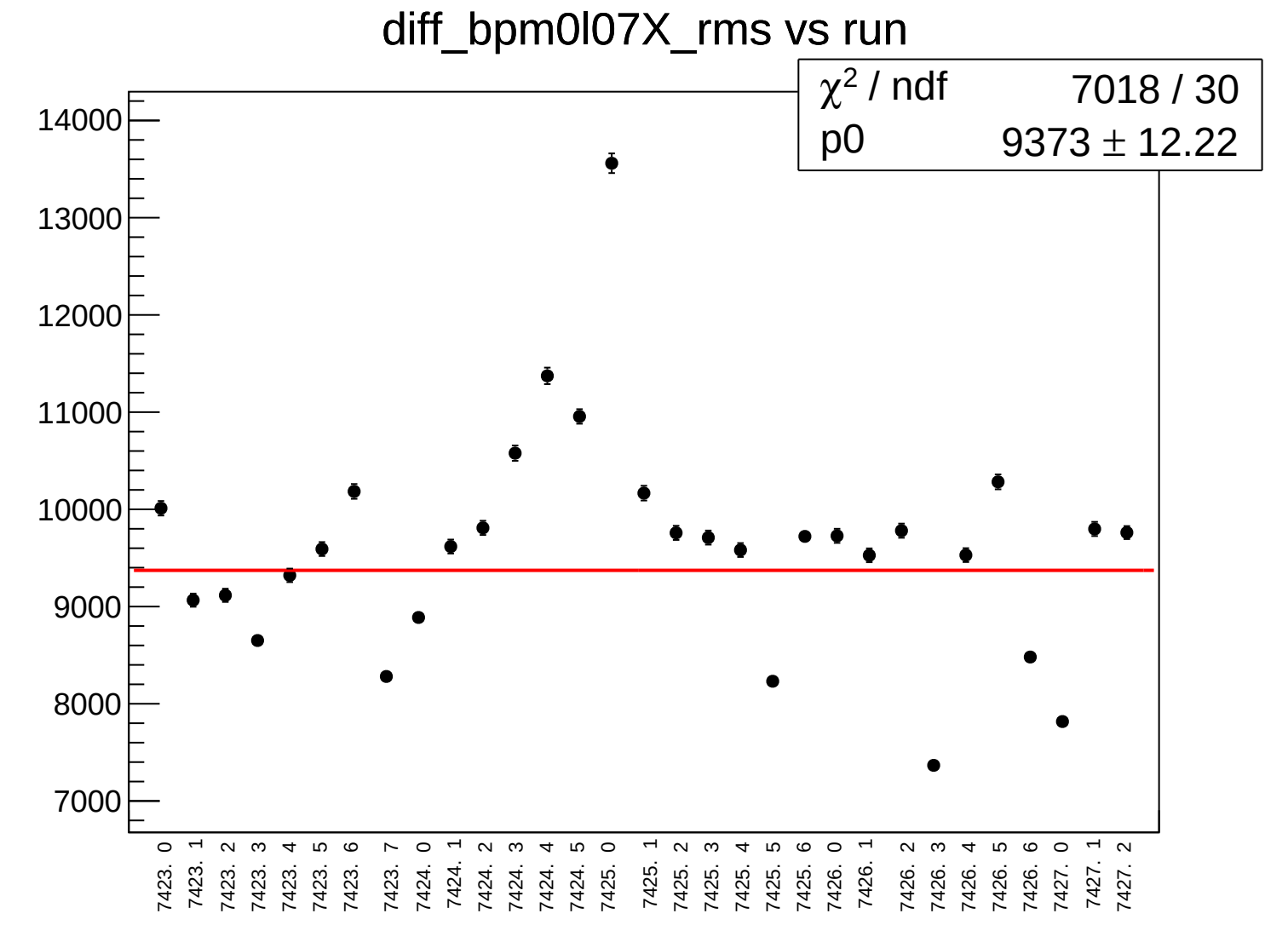

diff_bpm0l06Y_mean vs run
χ² / ndf 38.57 / 30
p0 −2.233 ± 2.083
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 267.6
Std Dev 0
2
1
0
−1
−2

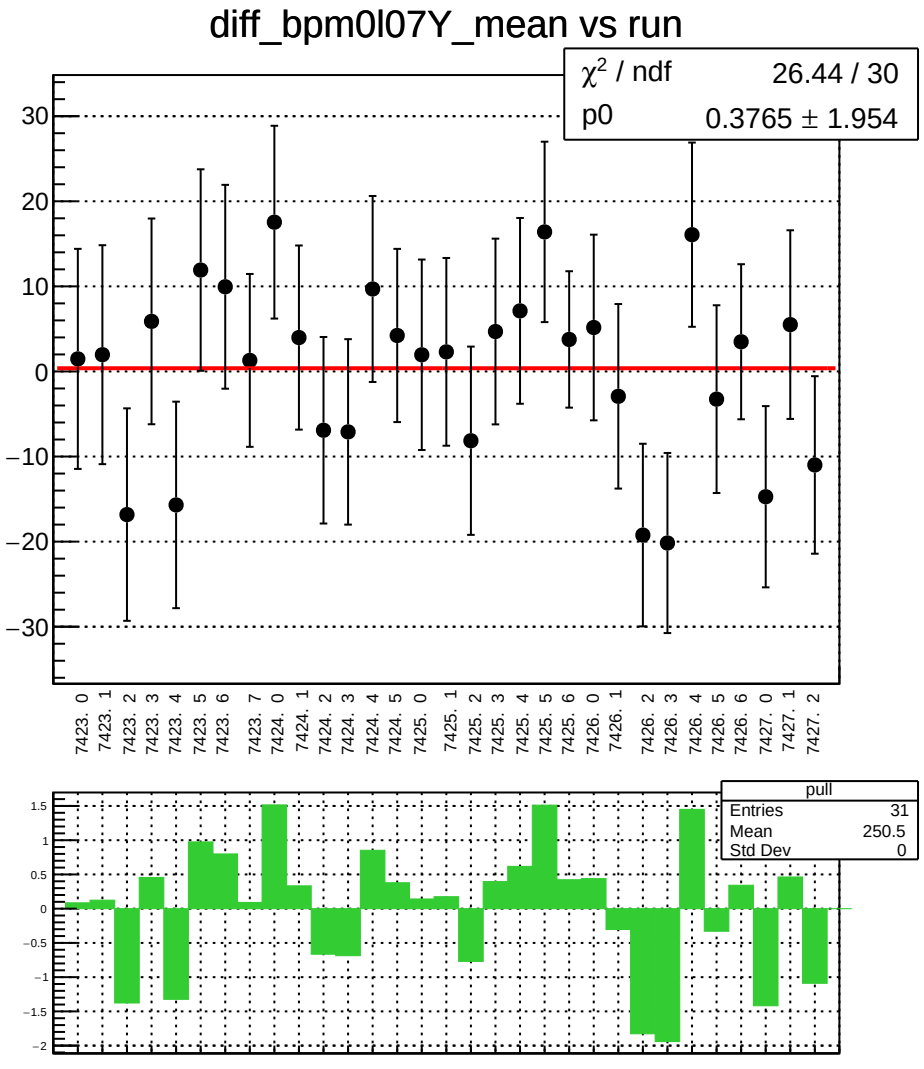

pull1D
Entries 31
Mean 0.007854
Std Dev 1.115
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

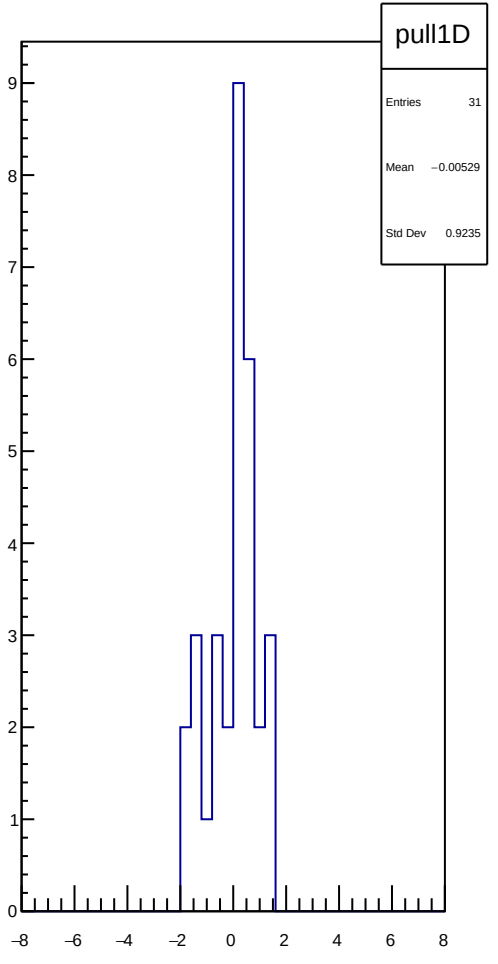

diff_bpm0l06Y_rms vs run
χ² / ndf 1590 / 30
p0 1135 ± 1.473
1350
1300
1250
1200
1150
1100
1050
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

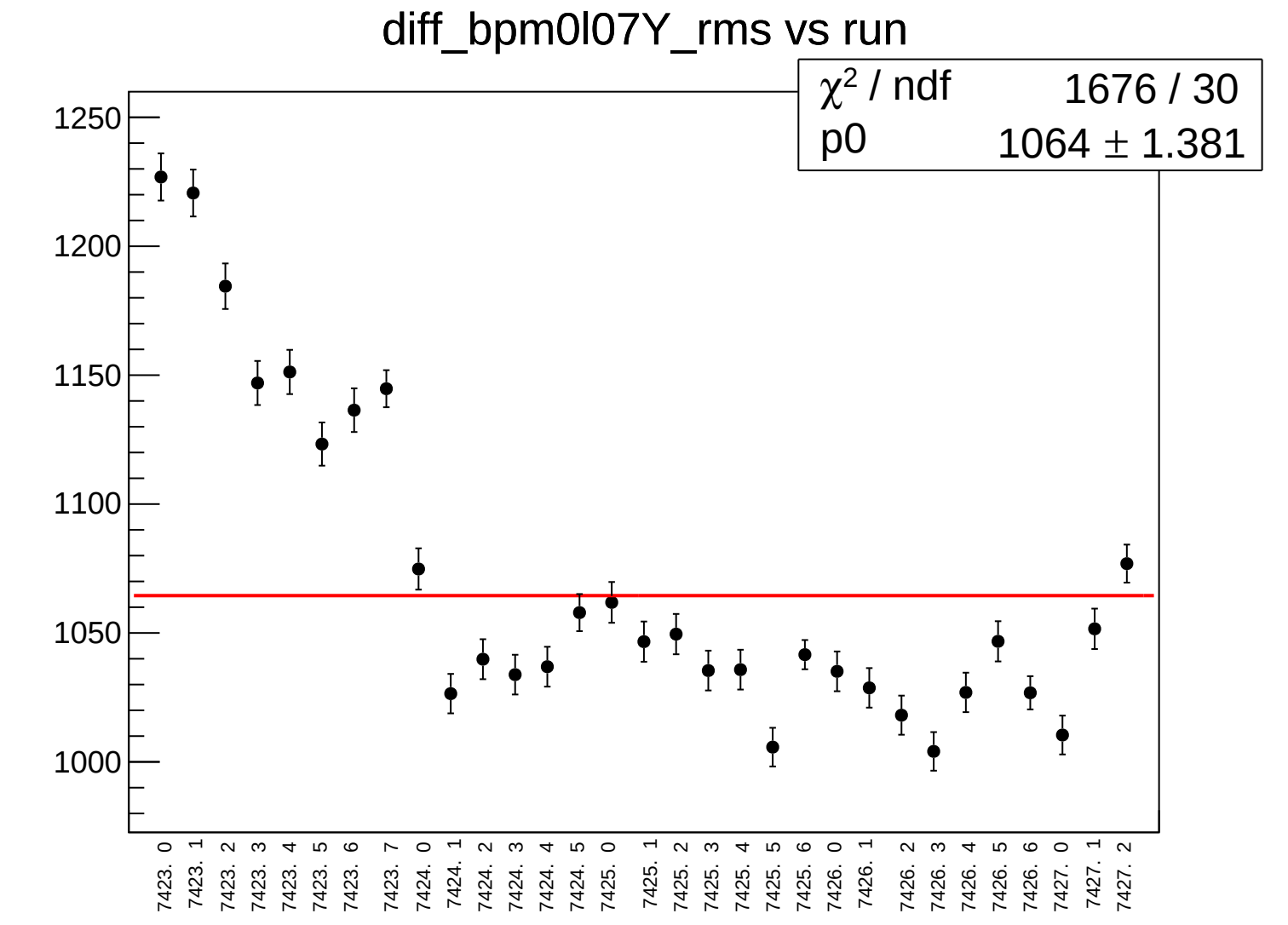

diff_bpm0l07X_mean vs run
χ² / ndf 30.12 / 30
p0 5.671 ± 17.28
300
200
100
0
−100
−200
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −67.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

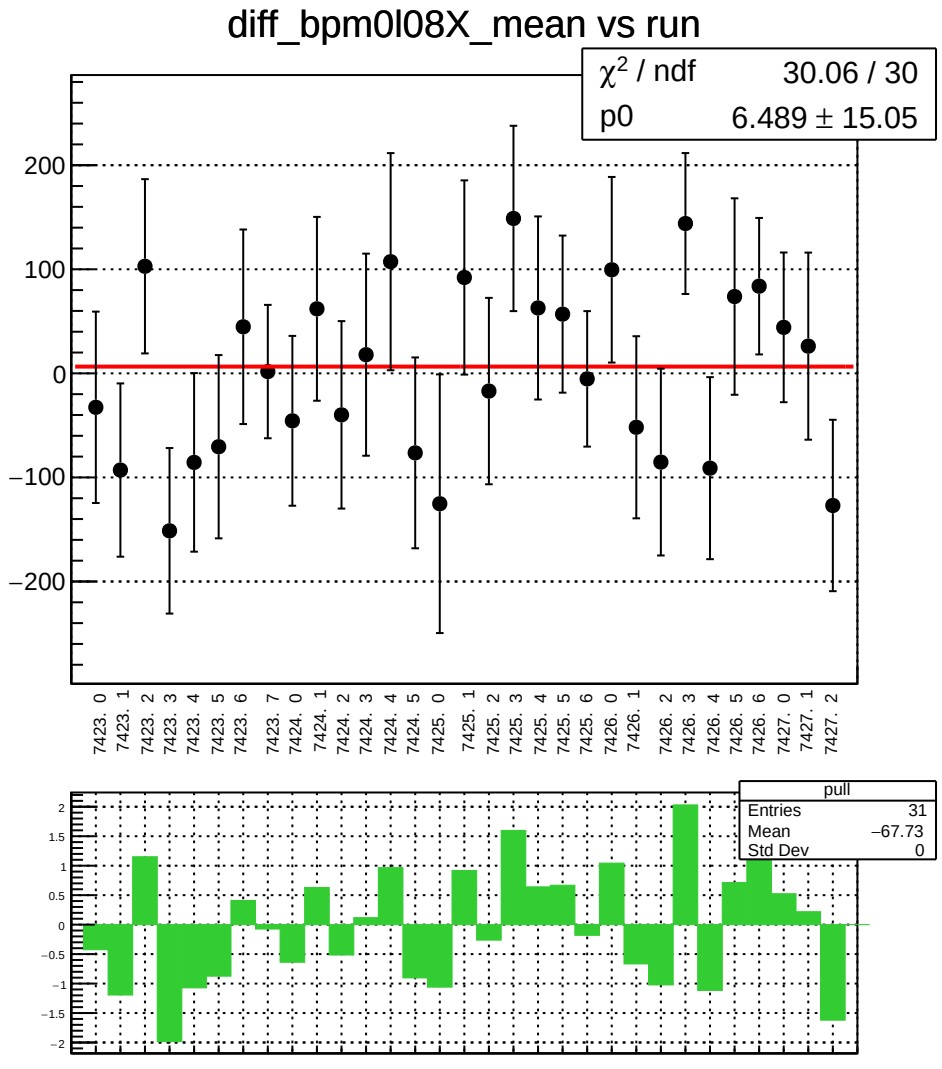

pull1D
Entries 31
Mean −0.02654
Std Dev 0.9853
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

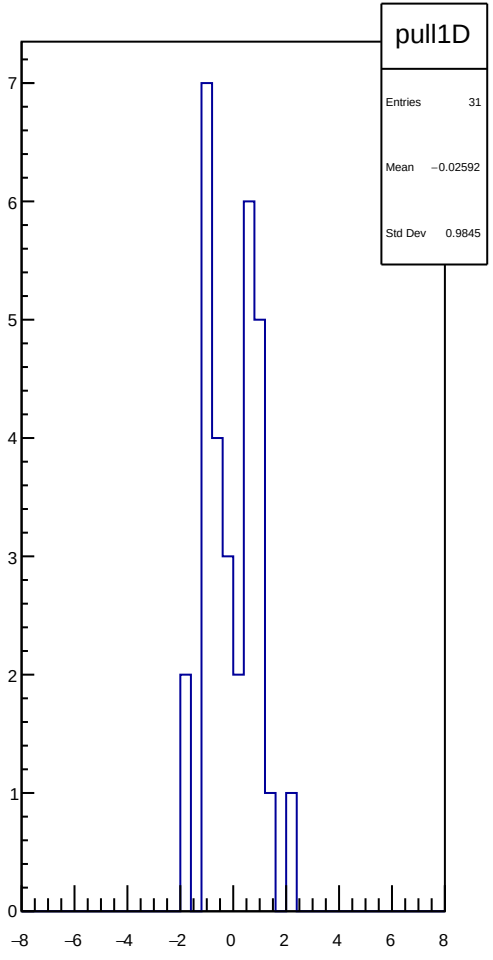

diff_bpm0l07X_rms vs run
χ² / ndf 7018 / 30
p0 9373 ± 12.22
14000
13000
12000
11000
10000
9000
8000
7000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

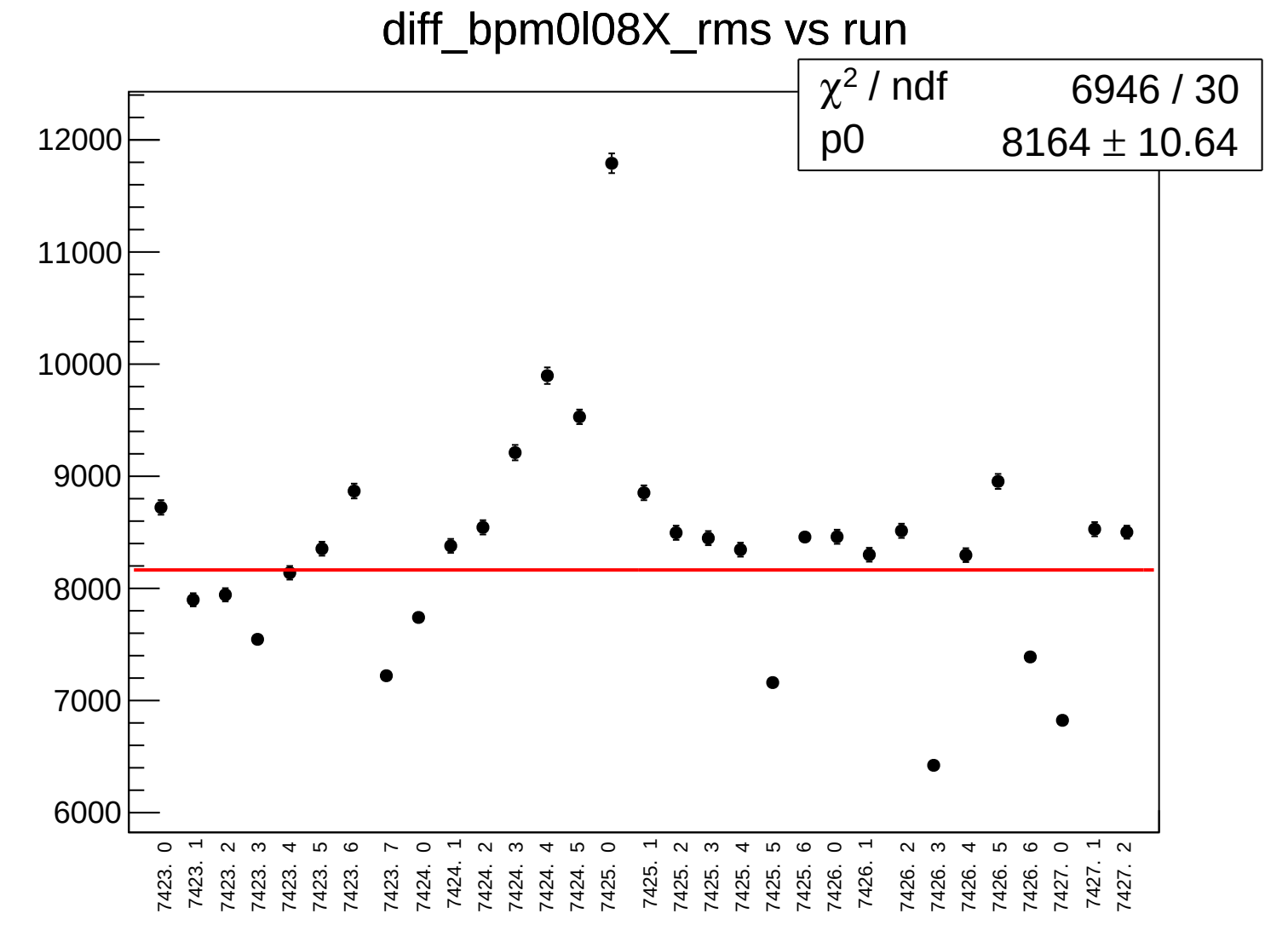

diff_bpm0l07Y_mean vs run
χ² / ndf 26.44 / 30
p0 0.3765 ± 1.954
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 250.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

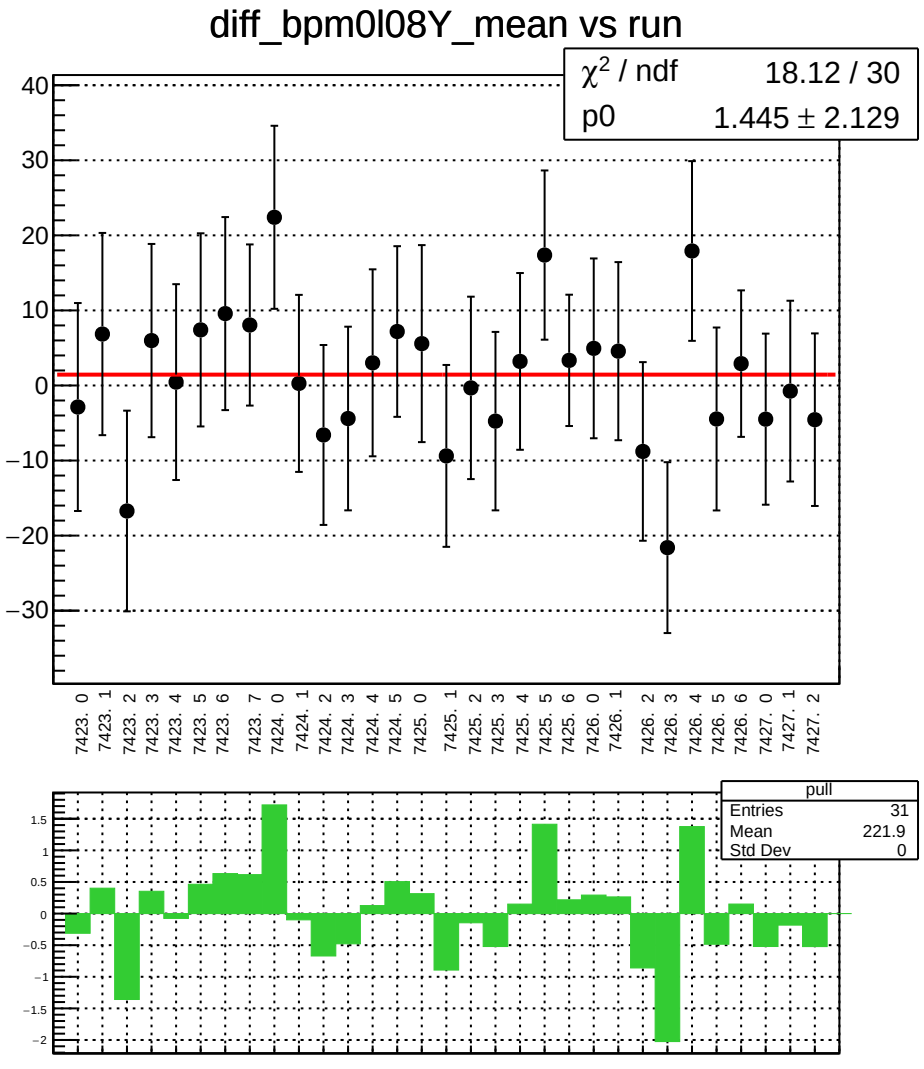

pull1D
Entries 31
Mean −0.00529
Std Dev 0.9235
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

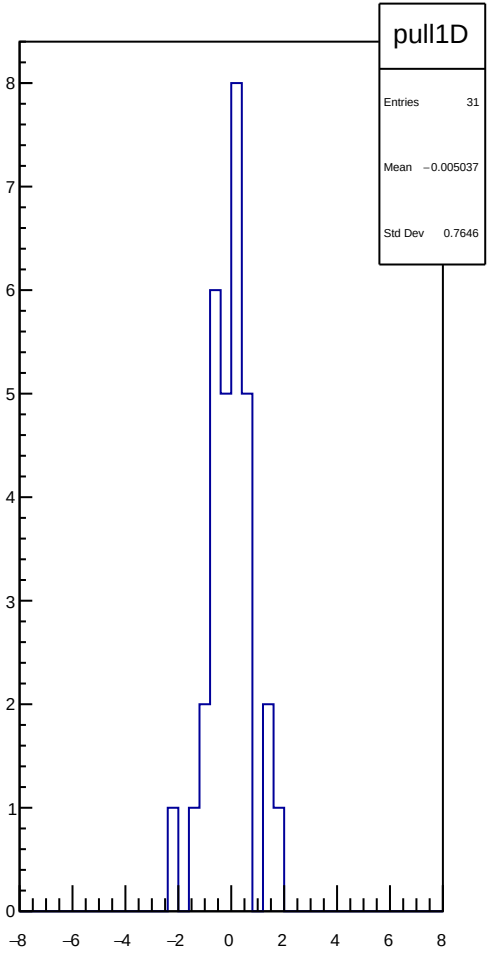

diff_bpm0l07Y_rms vs run
χ² / ndf 1676 / 30
p0 1064 ± 1.381
1250
1200
1150
1100
1050
1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

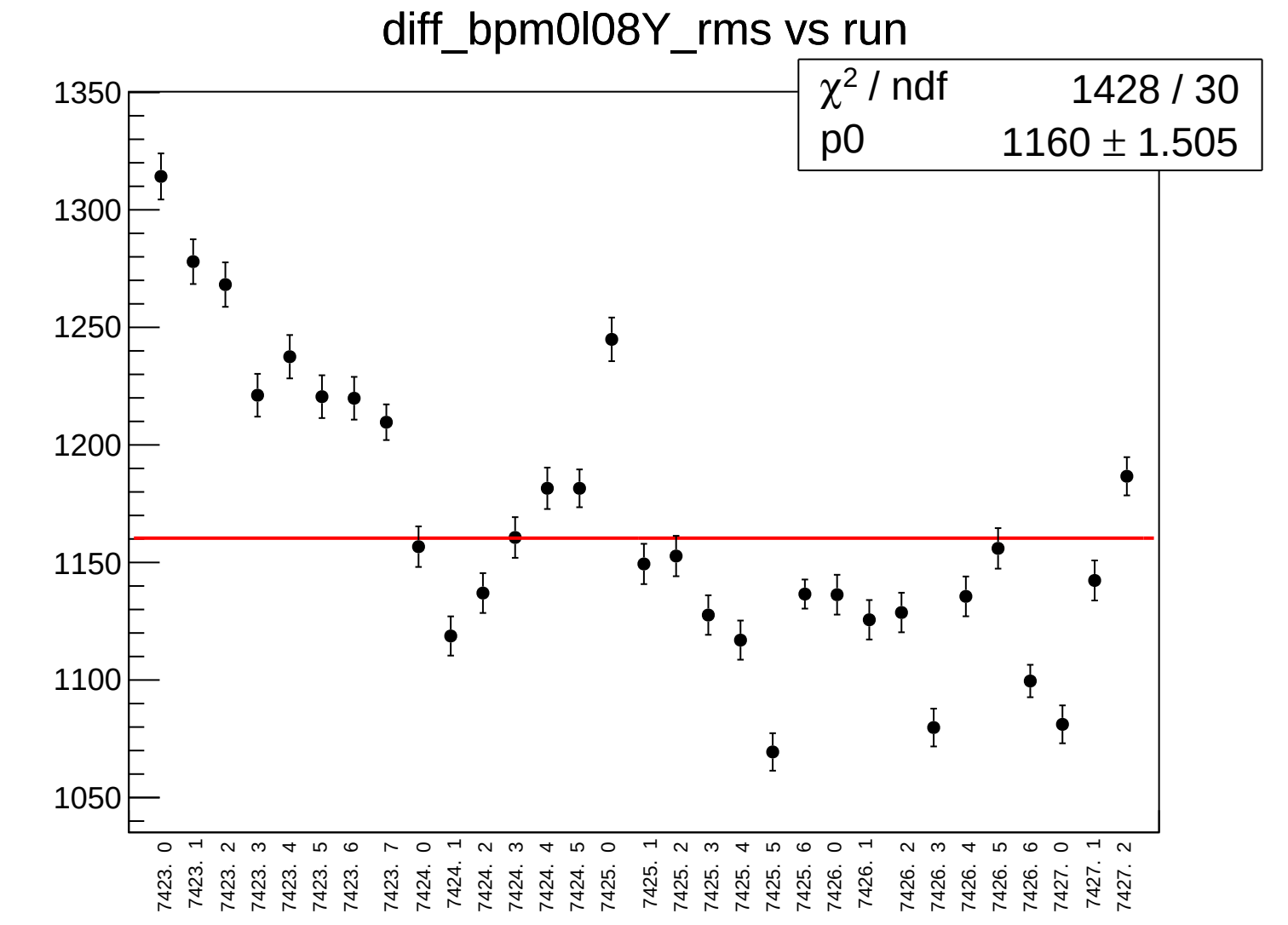

diff_bpm0l08X_mean vs run
χ² / ndf 30.06 / 30
p0 6.489 ± 15.05
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −67.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

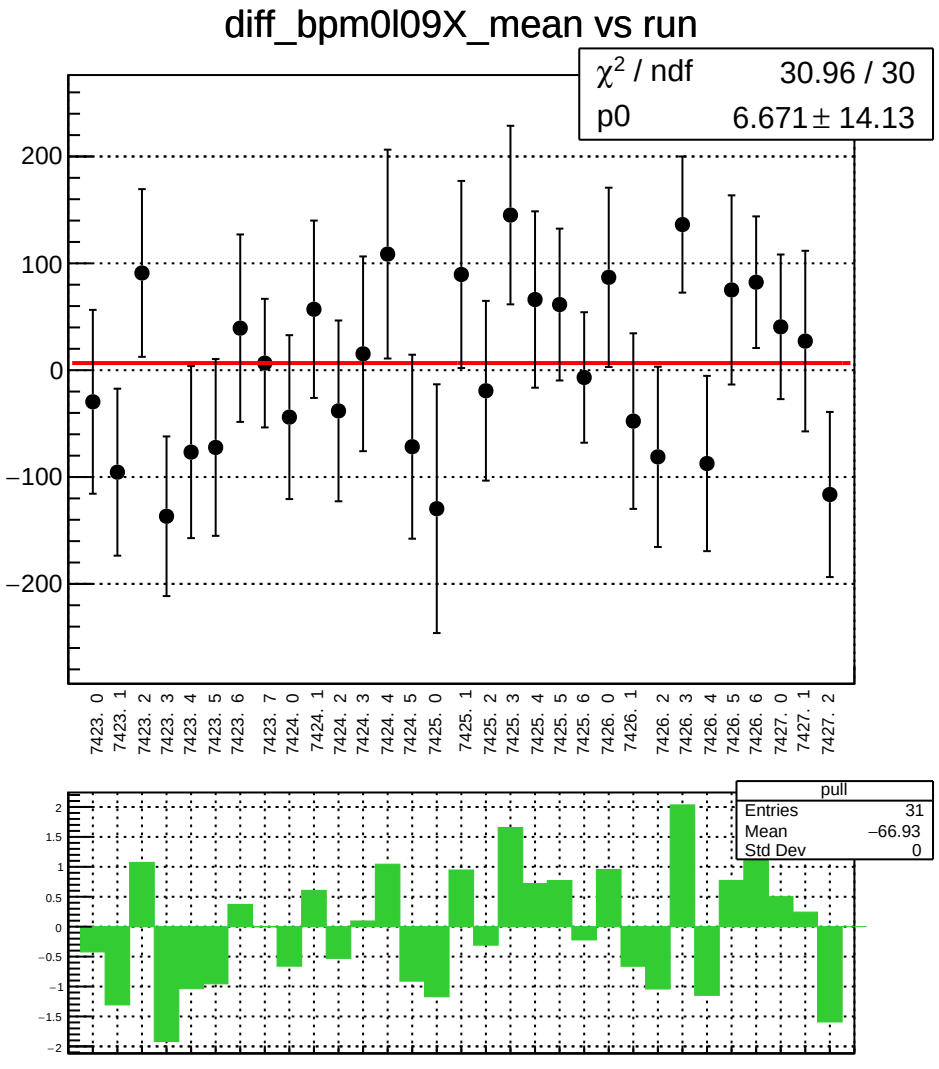

pull1D
Entries 31
Mean −0.02592
Std Dev 0.9845
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

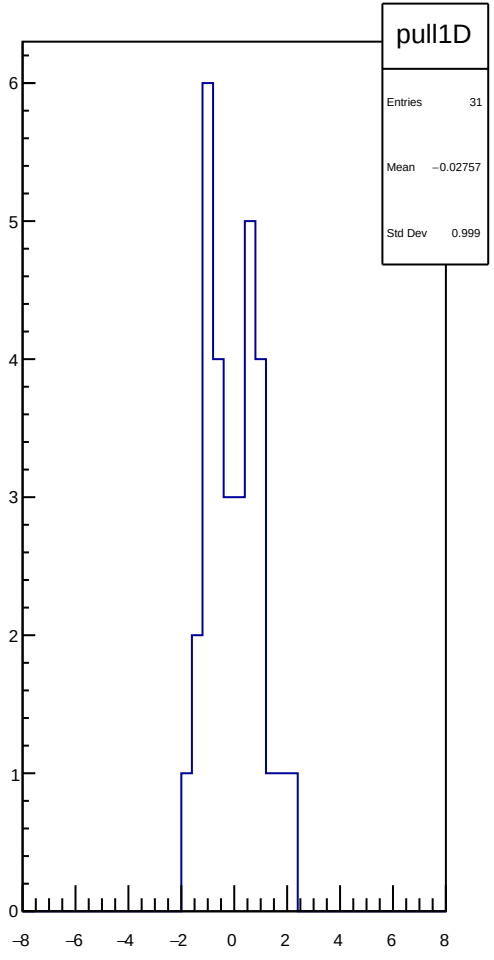

diff_bpm0l08X_rms vs run
χ² / ndf 6946 / 30
p0 8164 ± 10.64
12000
11000
10000
9000
8000
7000
6000
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

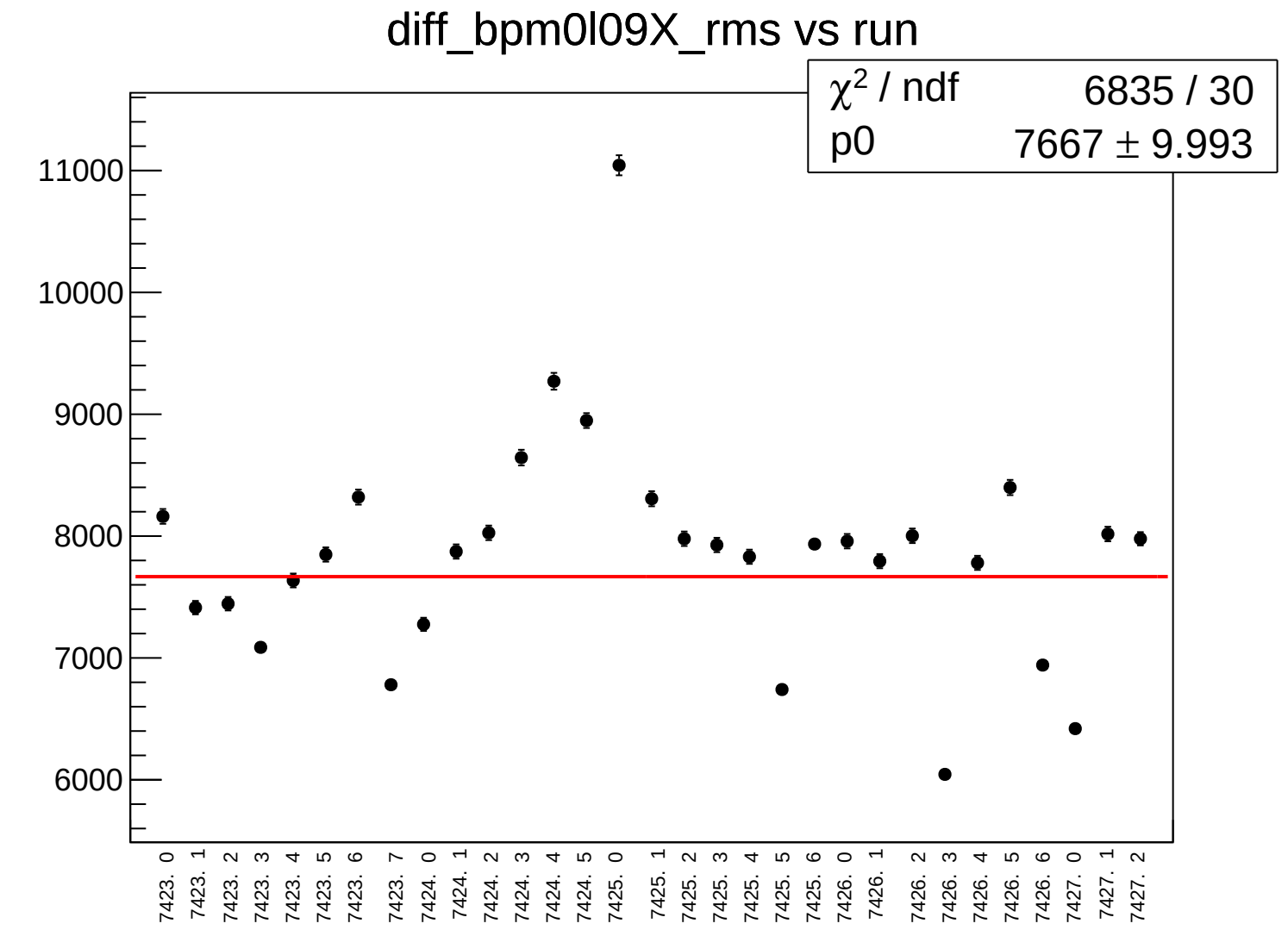

diff_bpm0l08Y_mean vs run
χ² / ndf 18.12 / 30
p0 1.445 ± 2.129
40
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 221.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

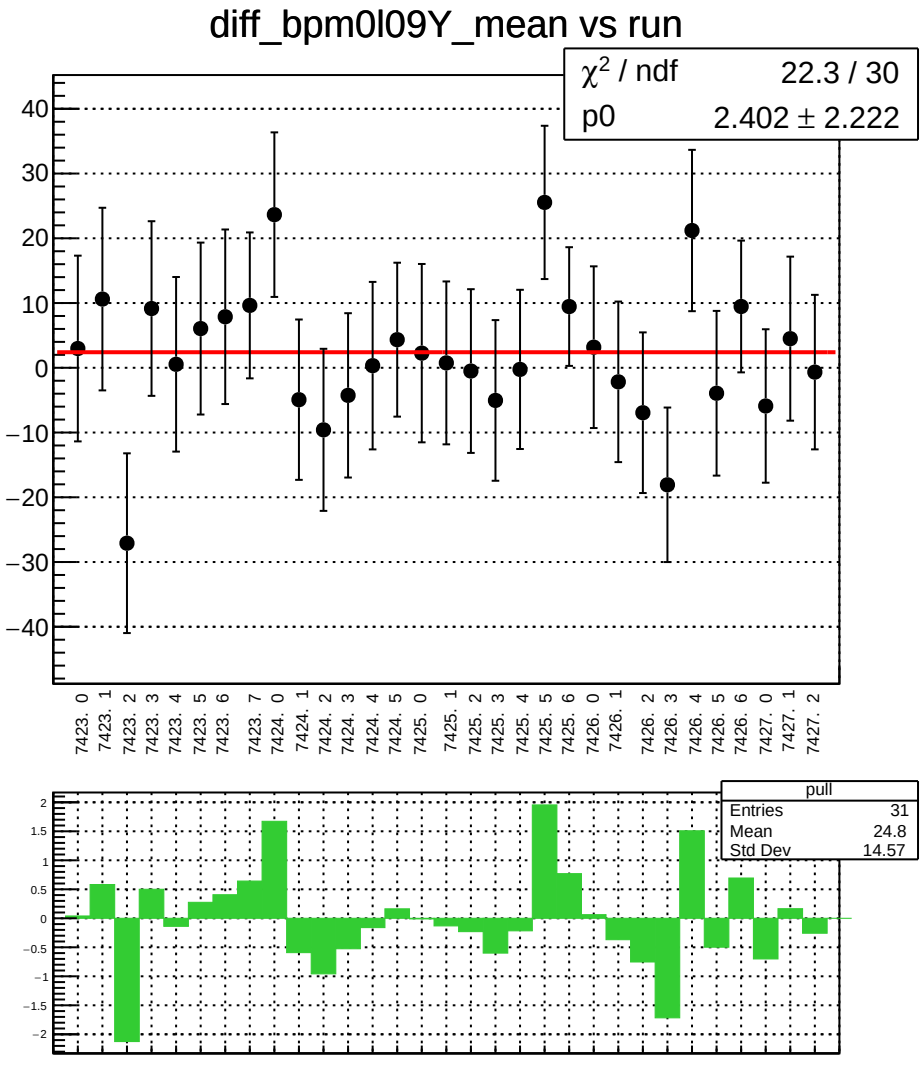

pull1D
Entries 31
Mean −0.005037
Std Dev 0.7646
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

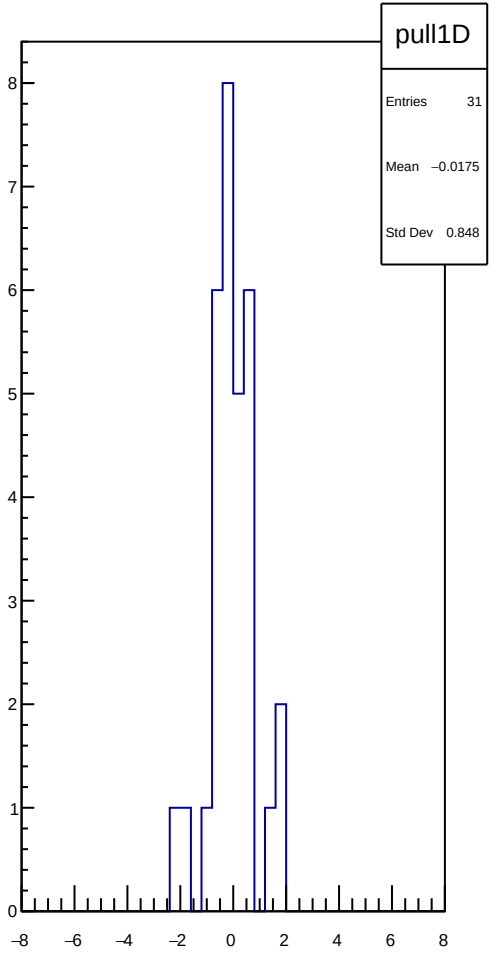

diff_bpm0l08Y_rms vs run
χ² / ndf 1428 / 30
p0 1160 ± 1.505
1350
1300
1250
1200
1150
1100
1050
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

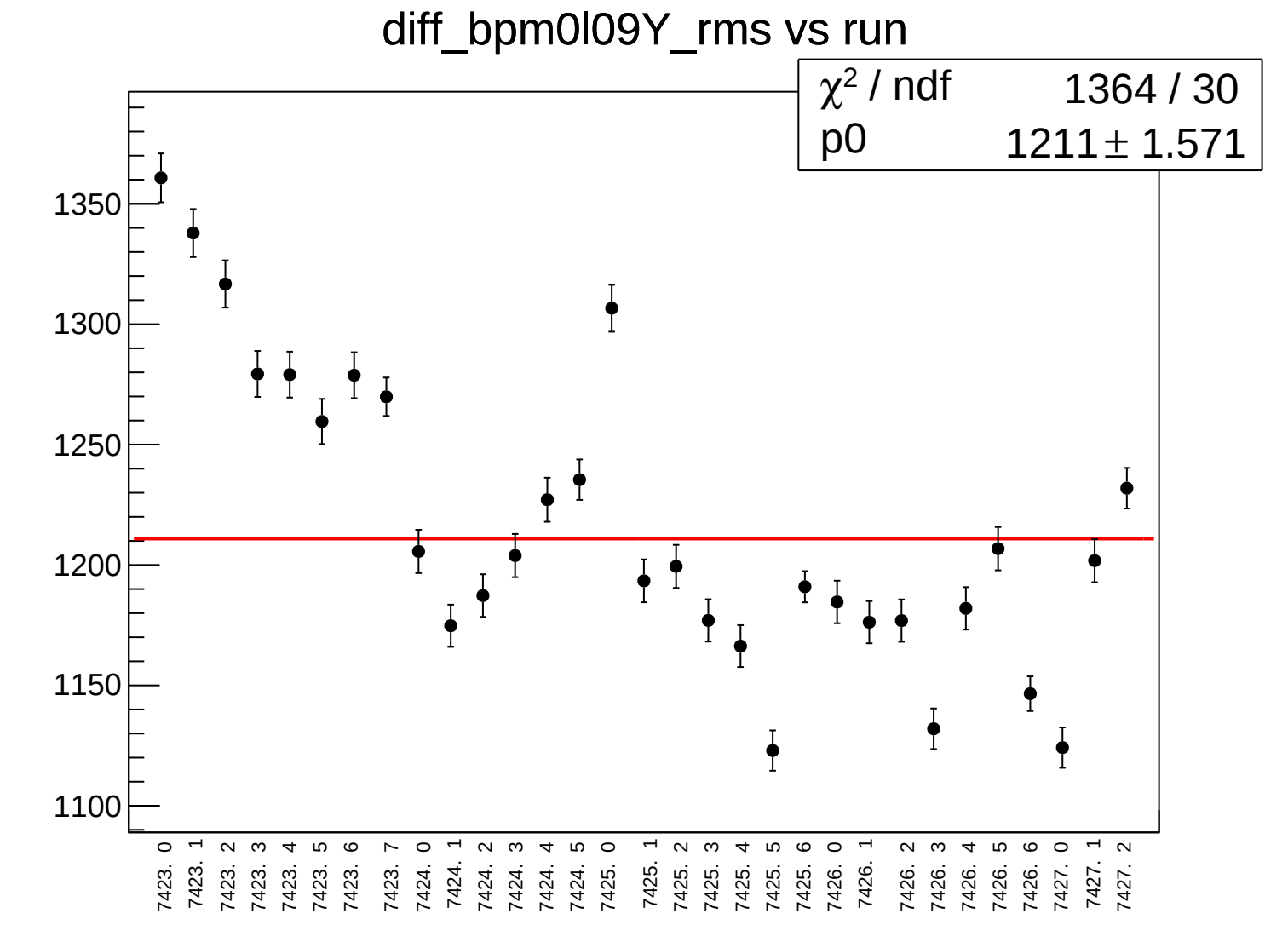

diff_bpm0l09X_mean vs run
χ² / ndf 30.96 / 30
p0 6.671 ± 14.13
200
100
0
−100
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −66.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

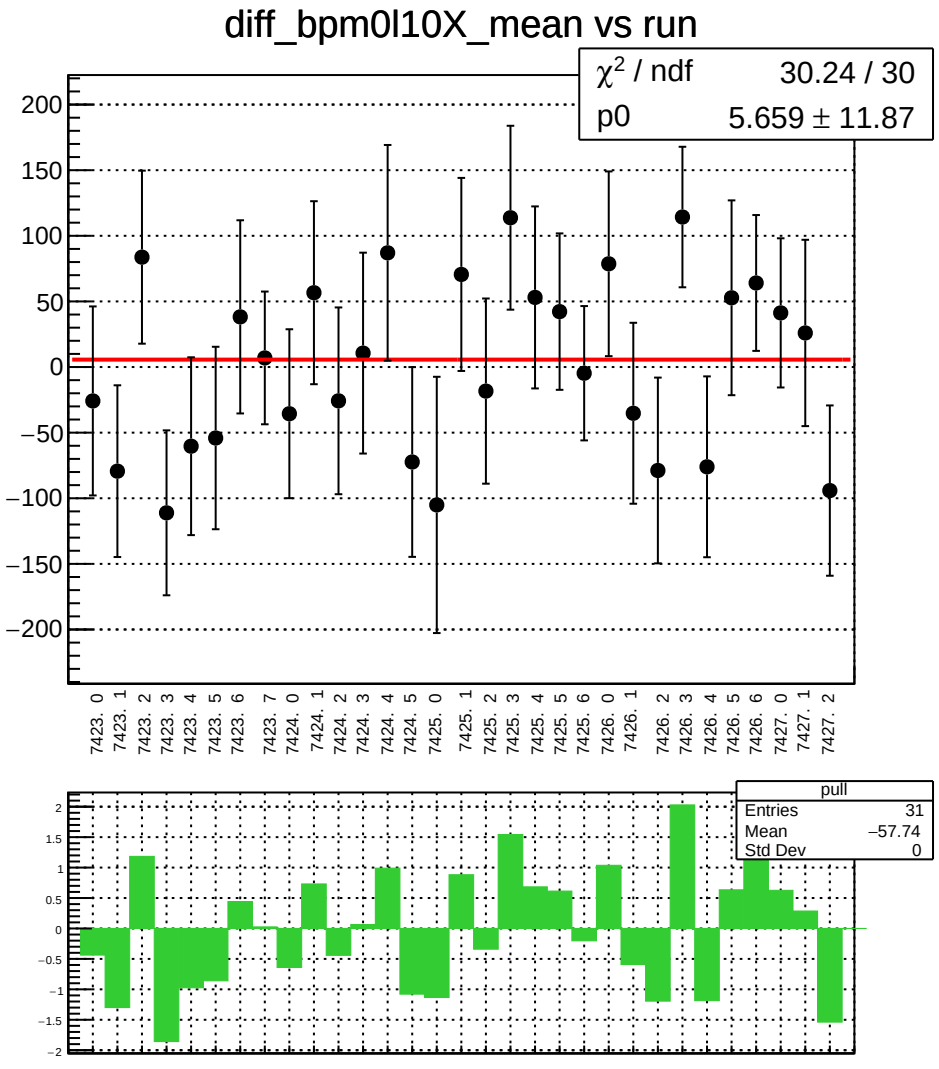

pull1D
Entries 31
Mean −0.02757
Std Dev 0.999
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

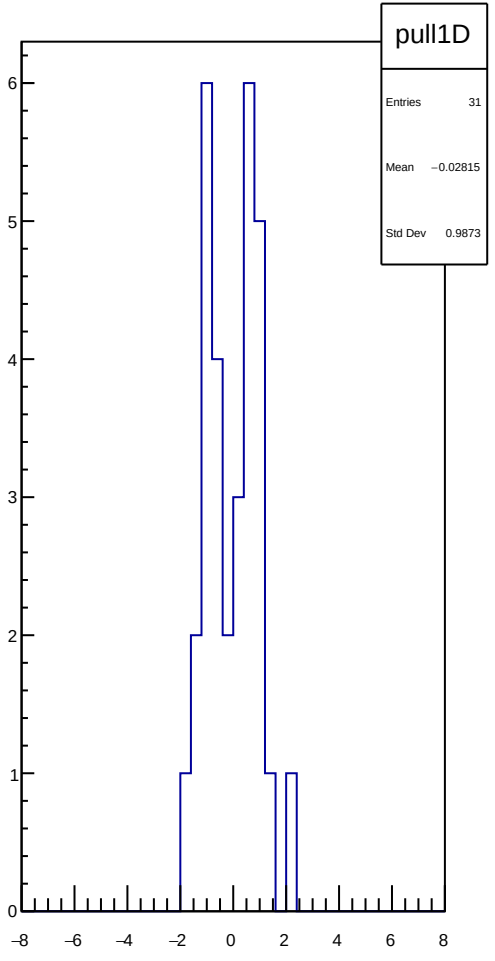

diff_bpm0l09X_rms vs run
χ² / ndf 6835 / 30
p0 7667 ± 9.993
11000
10000
9000
8000
7000
6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

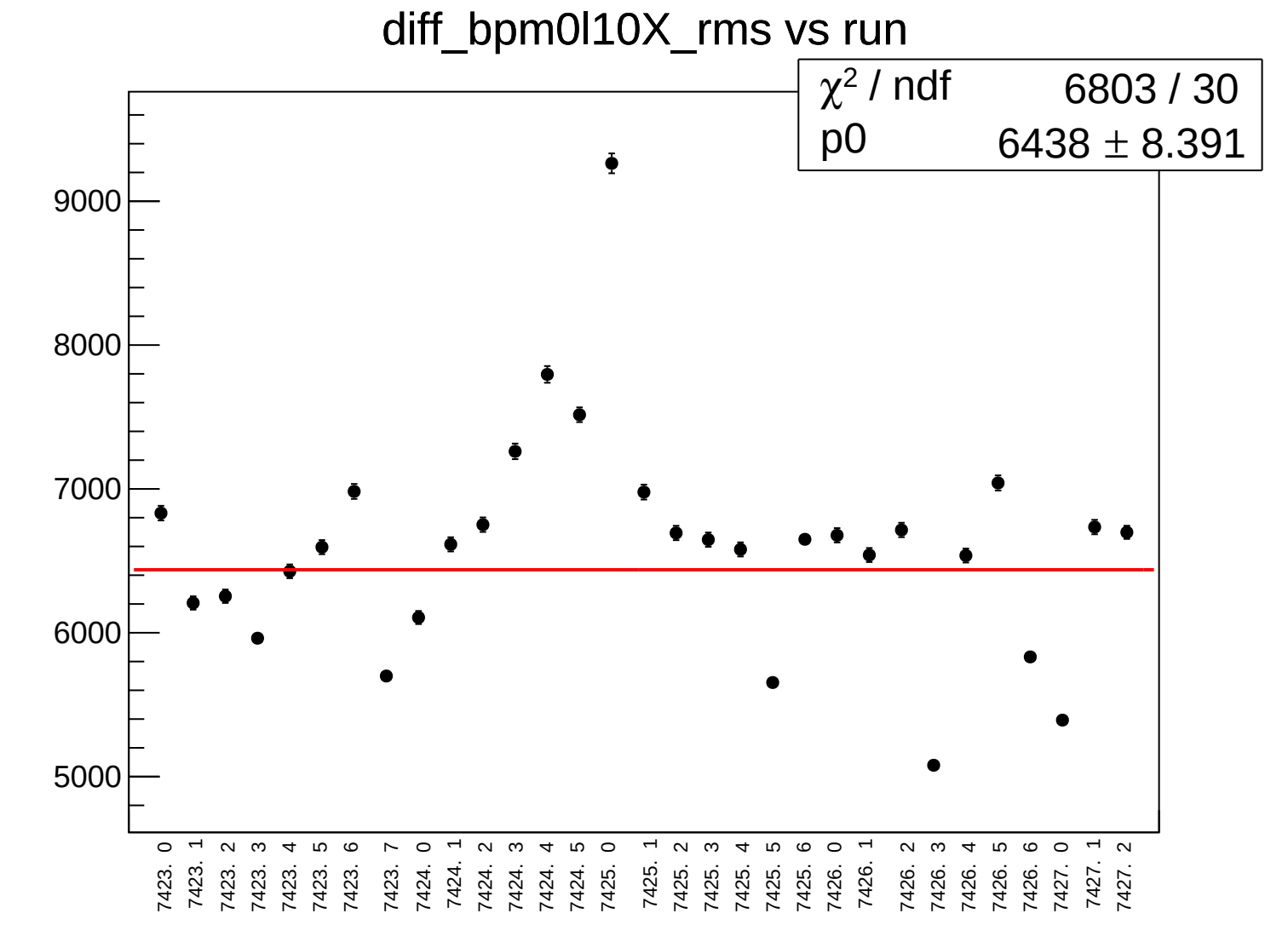

diff_bpm0l09Y_mean vs run
χ² / ndf 22.3 / 30
p0 2.402 ± 2.222
pull
Entries 31
Mean 24.8
Std Dev 14.57

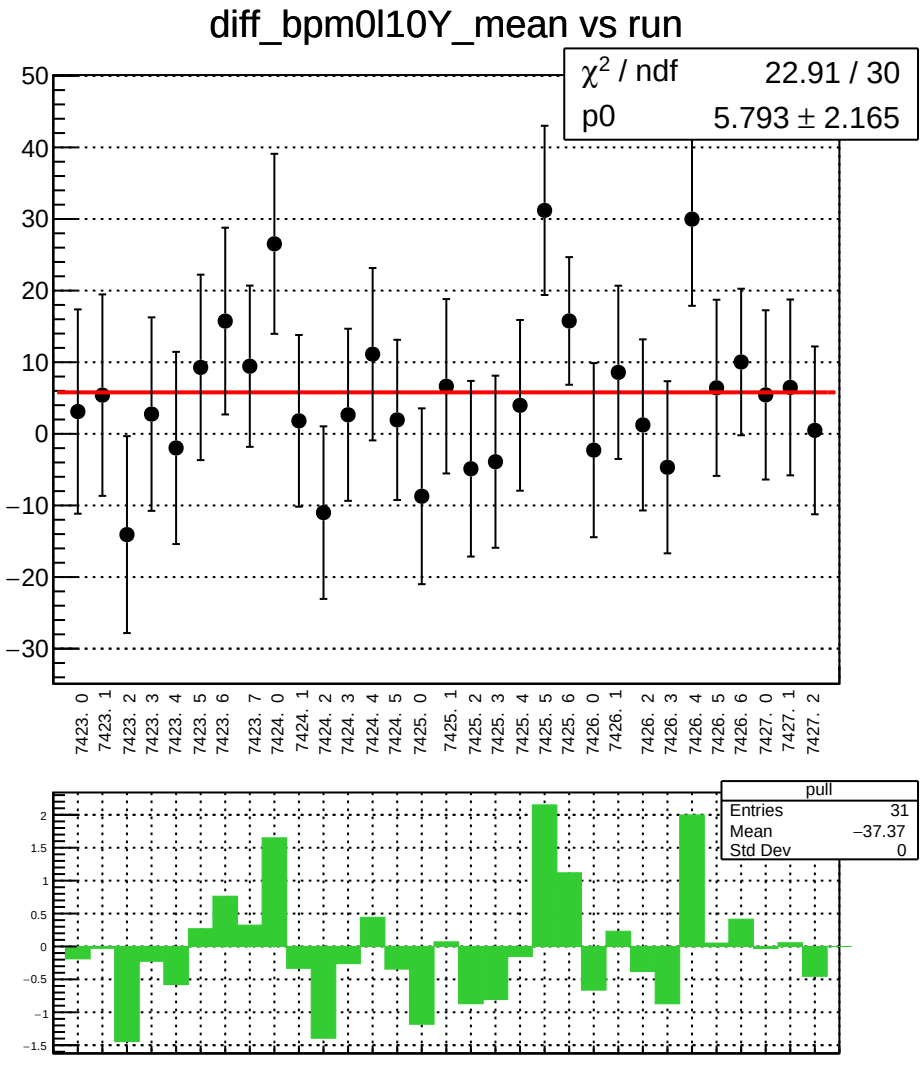

pull1D
Entries 31
Mean −0.0175
Std Dev 0.848

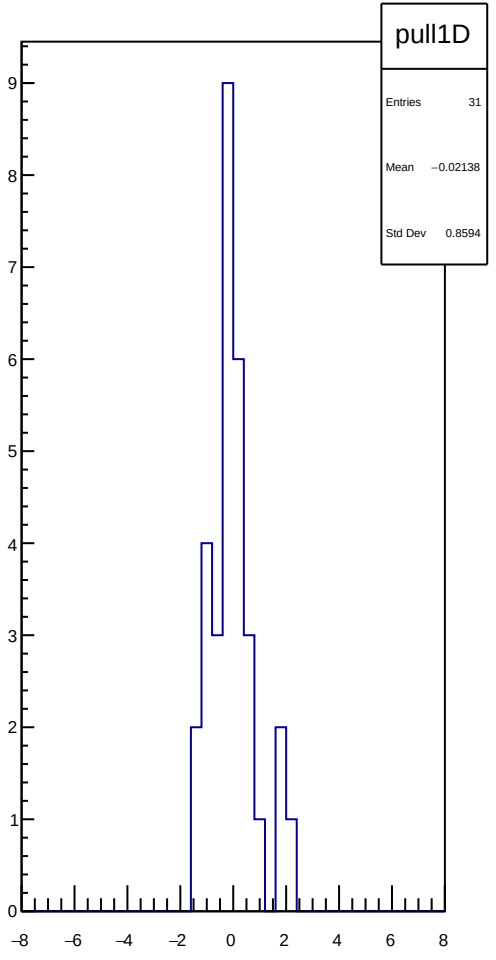

diff_bpm0l09Y_rms vs run
χ² / ndf 1364 / 30
p0 1211 ± 1.571
1350
1300
1250
1200
1150
1100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

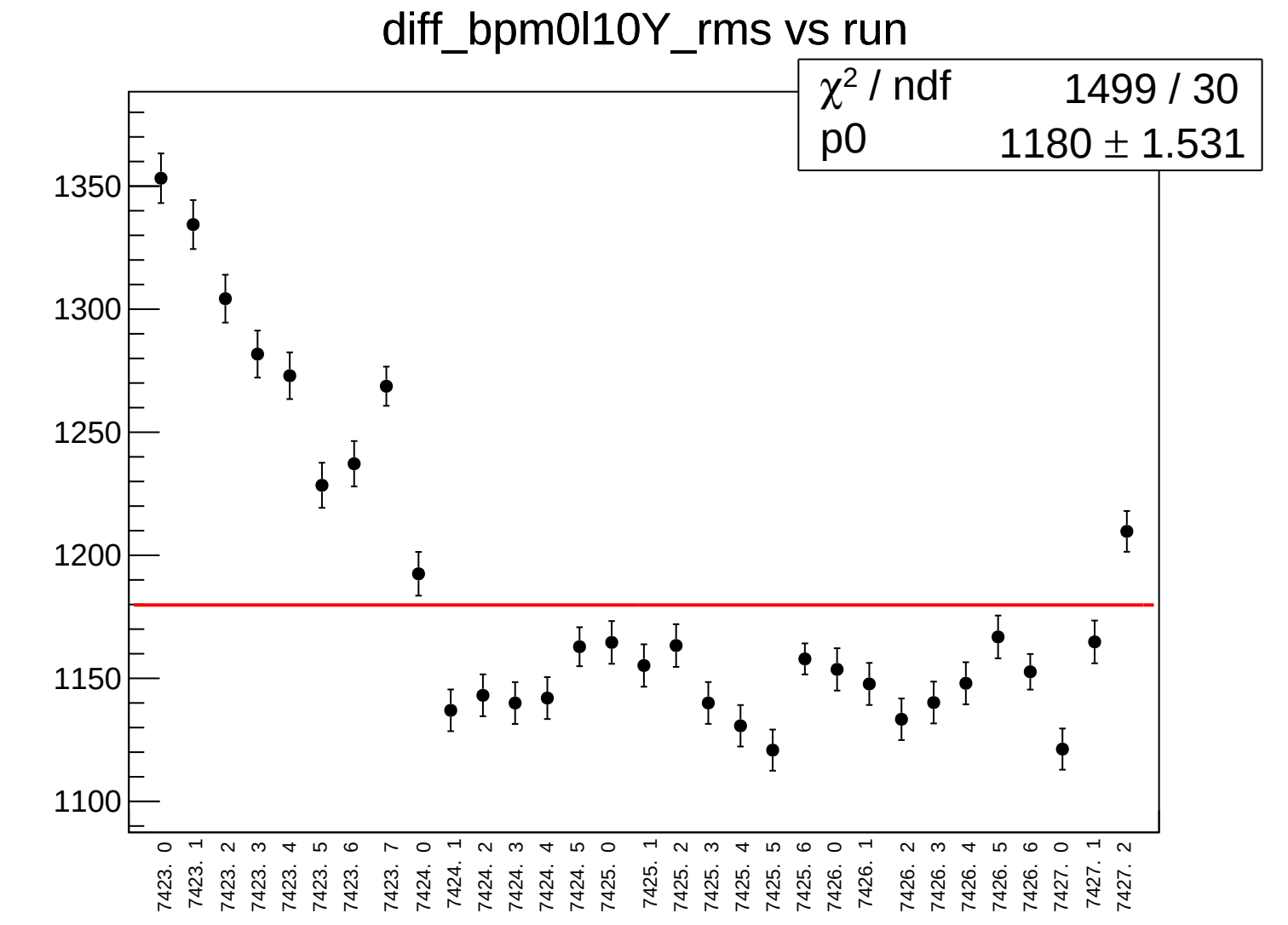

diff_bpm0l10X_mean vs run
χ² / ndf 30.24 / 30
p0 5.659 ± 11.87
200
150
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −57.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

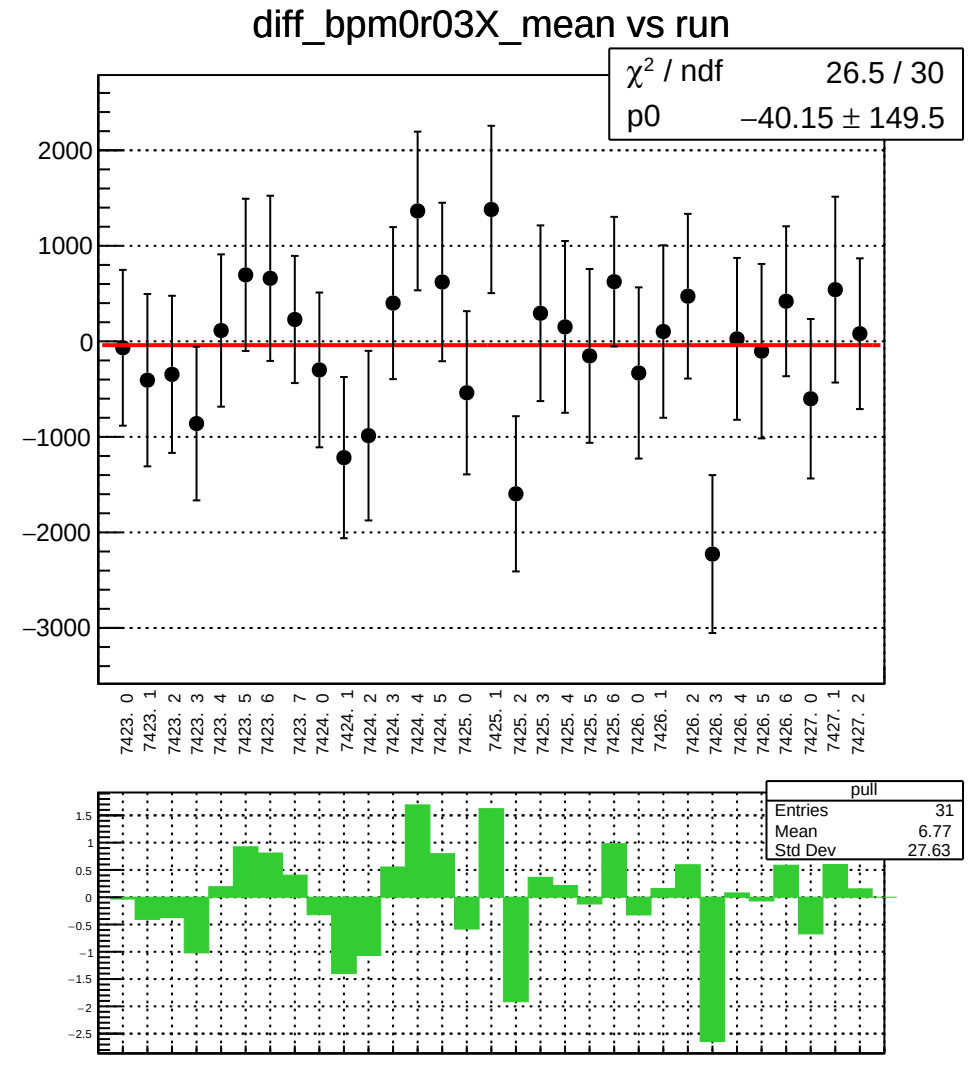

pull1D
Entries 31
Mean −0.02815
Std Dev 0.9873
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

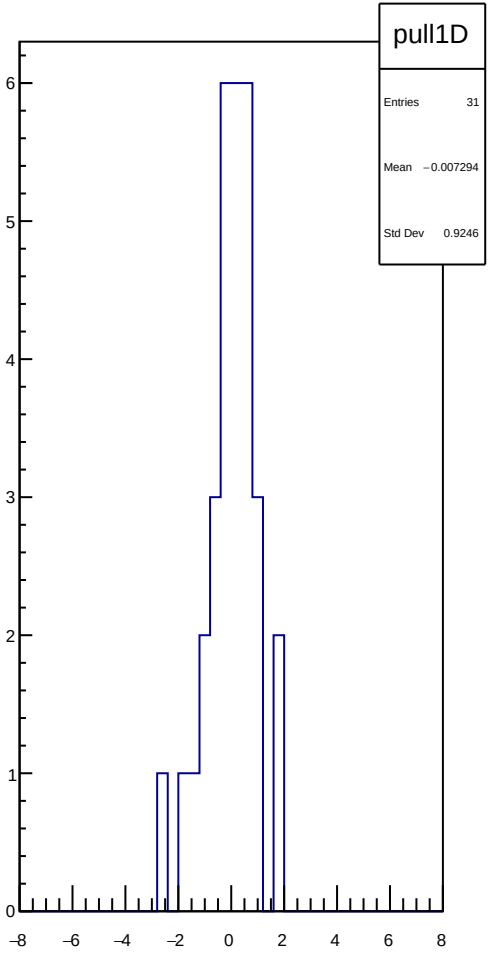

diff_bpm0l10X_rms vs run
χ² / ndf 6803 / 30
p0 6438 ± 8.391
9000
8000
7000
6000
5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

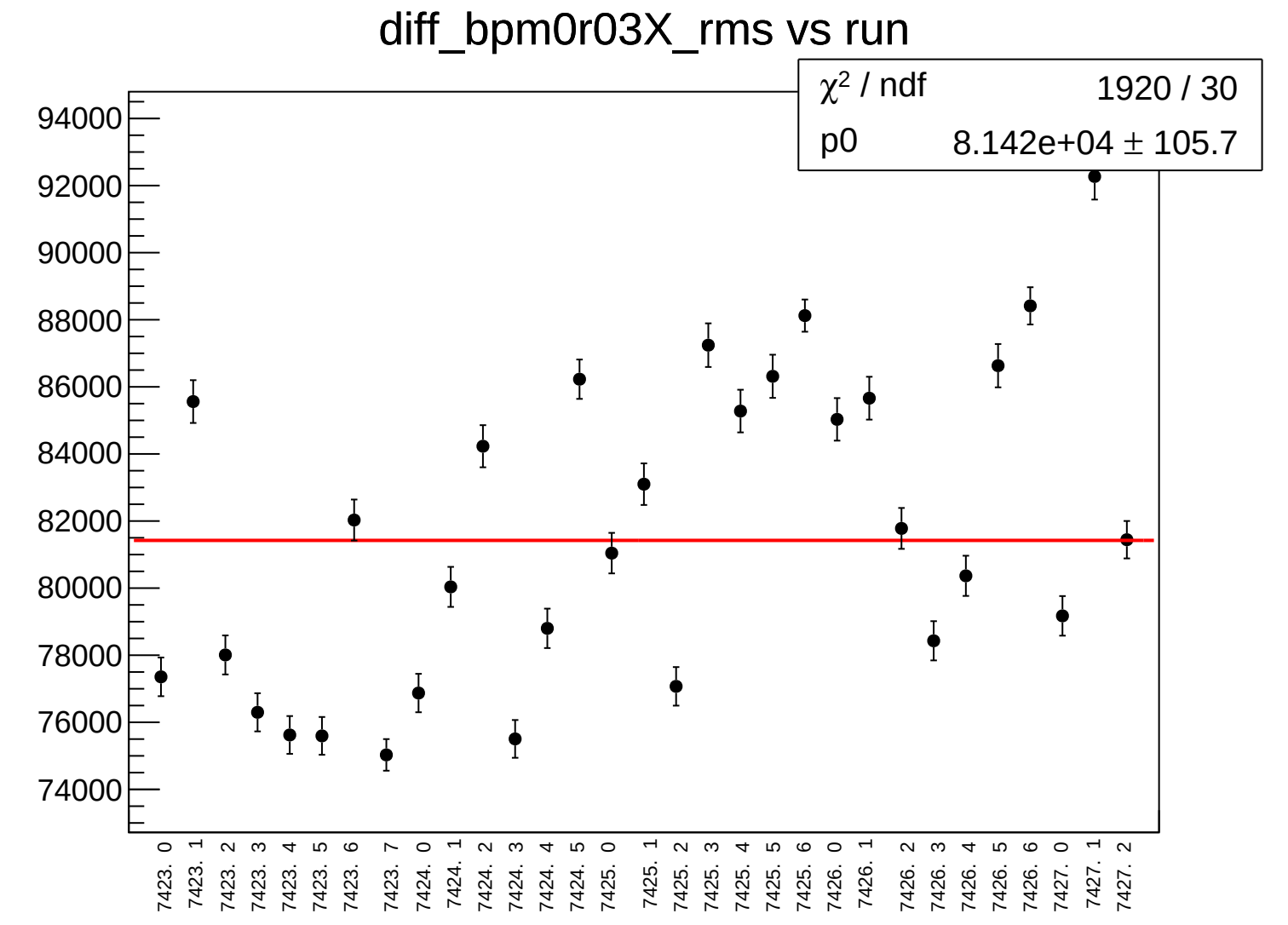

diff_bpm0l10Y_mean vs run
χ² / ndf 22.91 / 30
p0 5.793 ± 2.165
pull
Entries 31
Mean −37.37
Std Dev 0

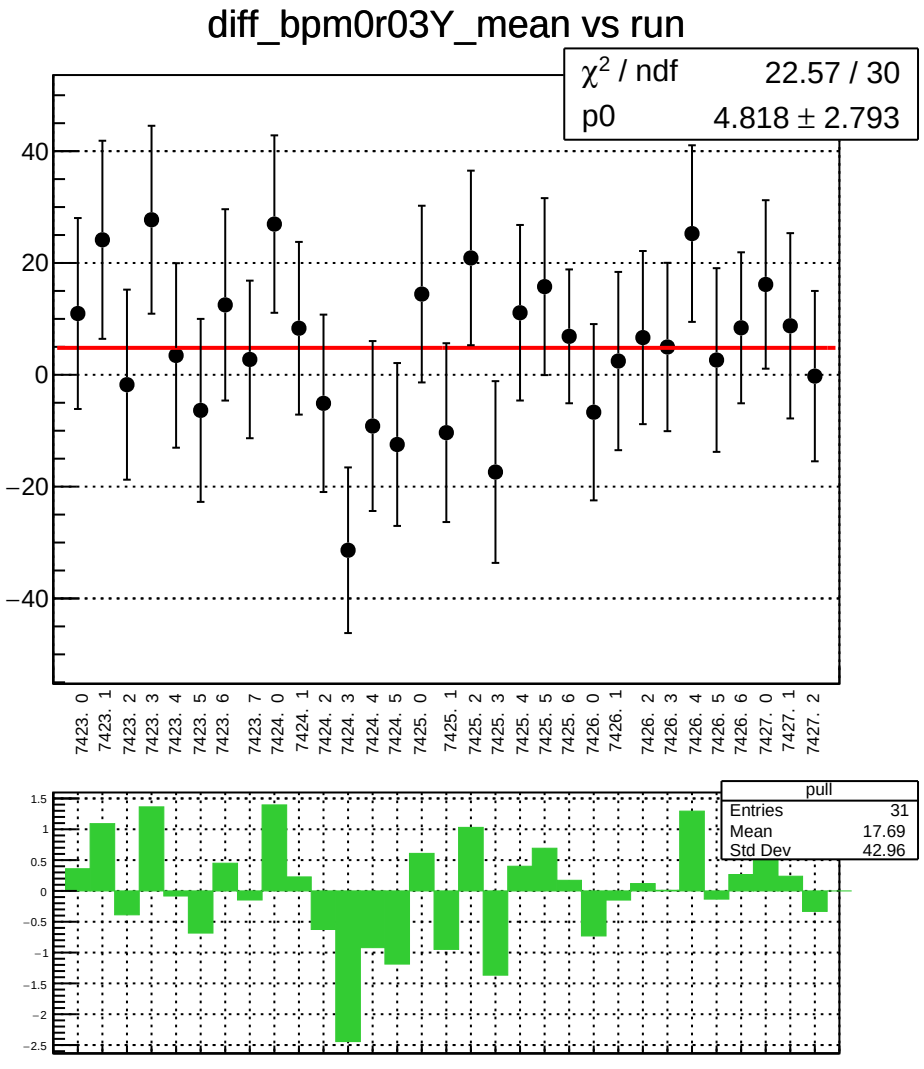

pull1D
Entries 31
Mean −0.02138
Std Dev 0.8594

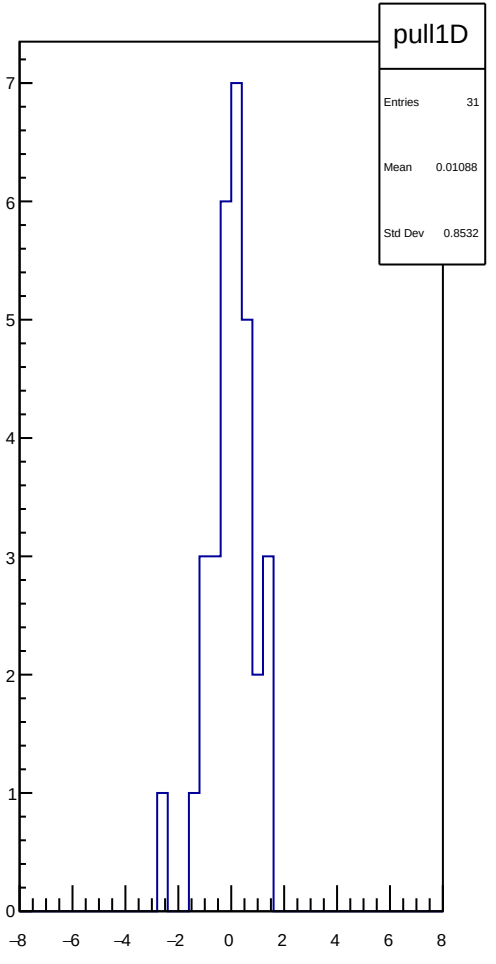

diff_bpm0l10Y_rms vs run
χ² / ndf 1499 / 30
p0 1180 ± 1.531
1350
1300
1250
1200
1150
1100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

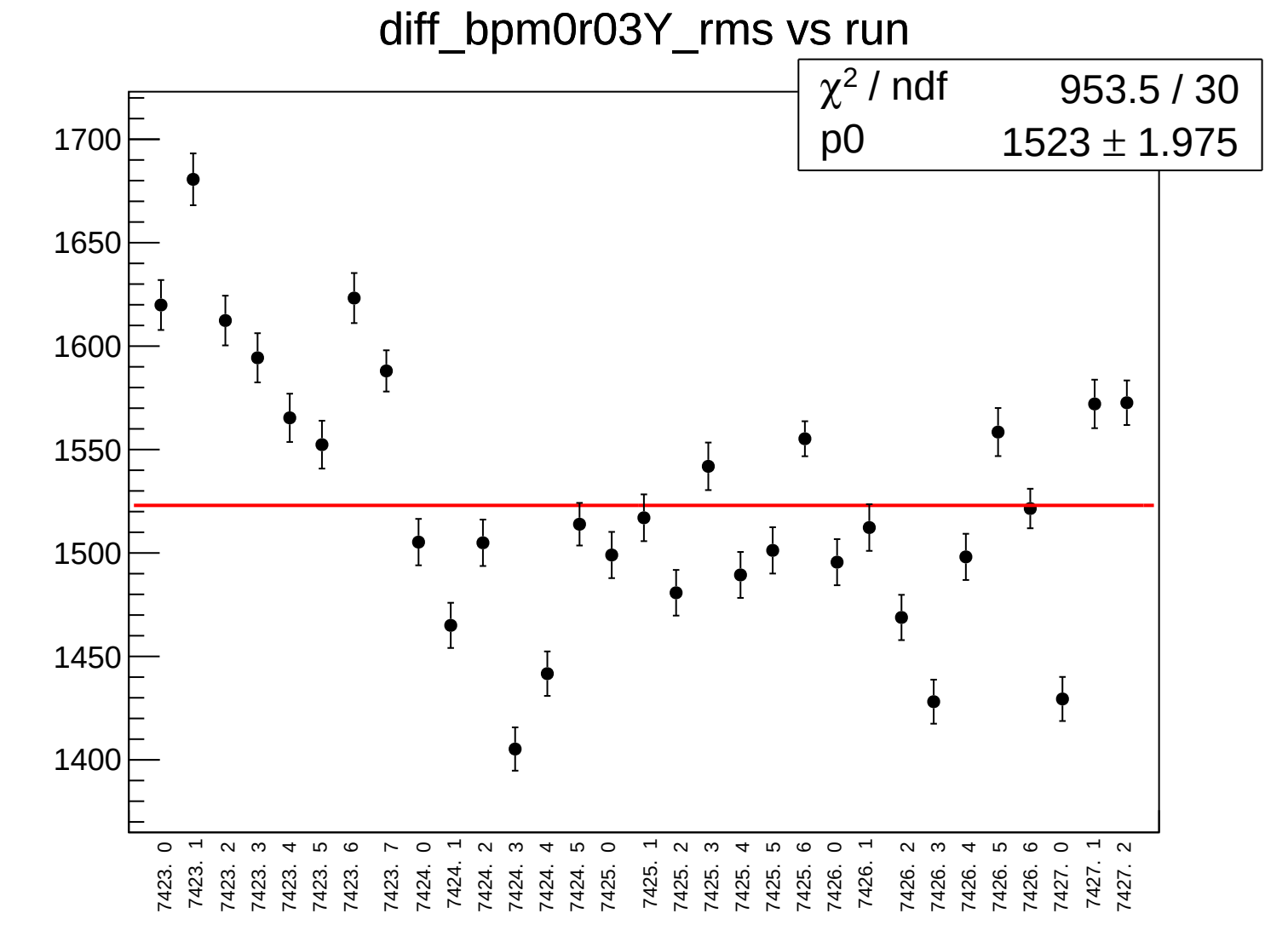

diff_bpm0r03X_mean vs run
χ² / ndf 26.5 / 30
p0 −40.15 ± 149.5
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 6.77
Std Dev 27.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

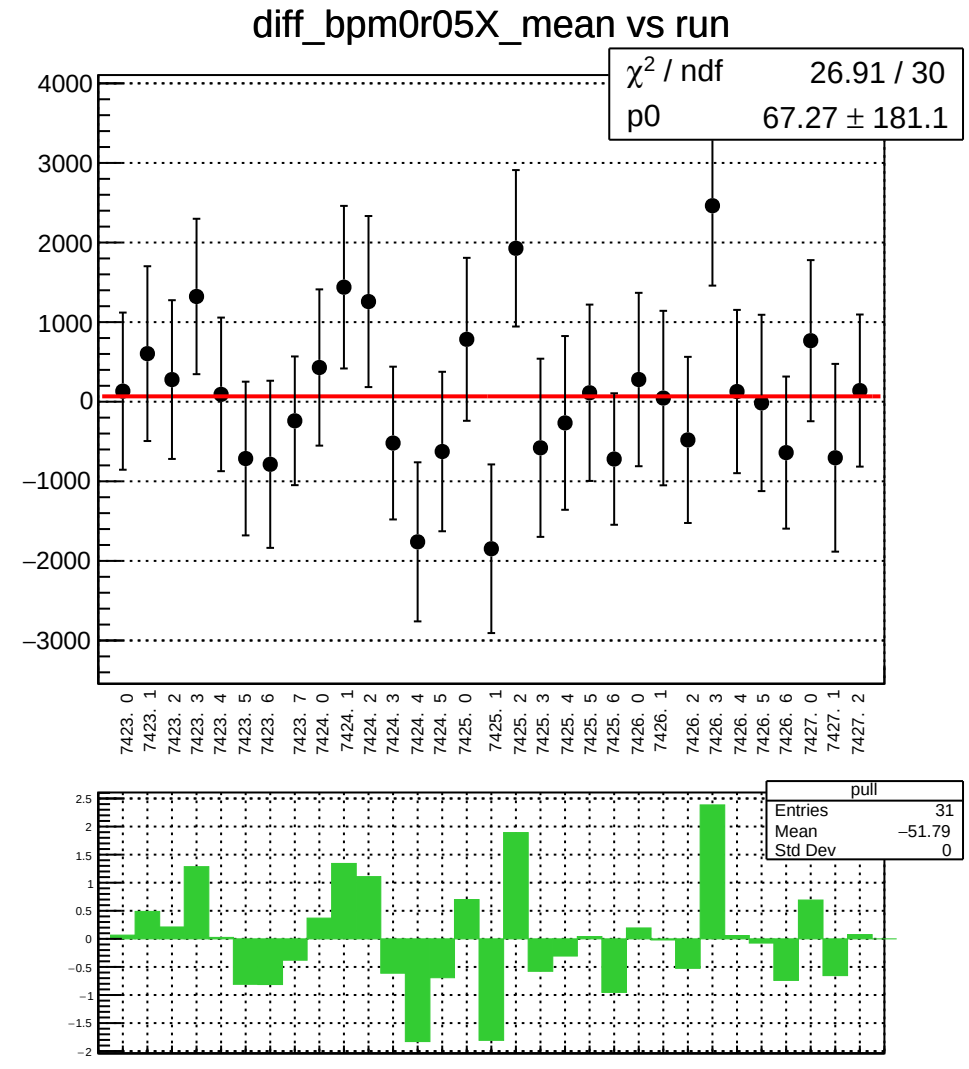

pull1D
Entries 31
Mean −0.007294
Std Dev 0.9246
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

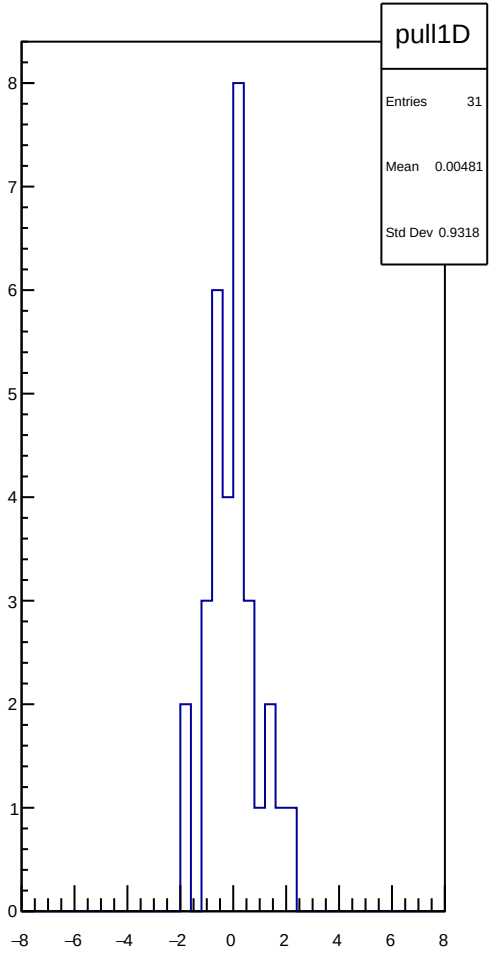

diff_bpm0r03X_rms vs run
χ² / ndf 1920 / 30
p0 8.142e+04 ± 105.7
94000
92000
90000
88000
86000
84000
82000
80000
78000
76000
74000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

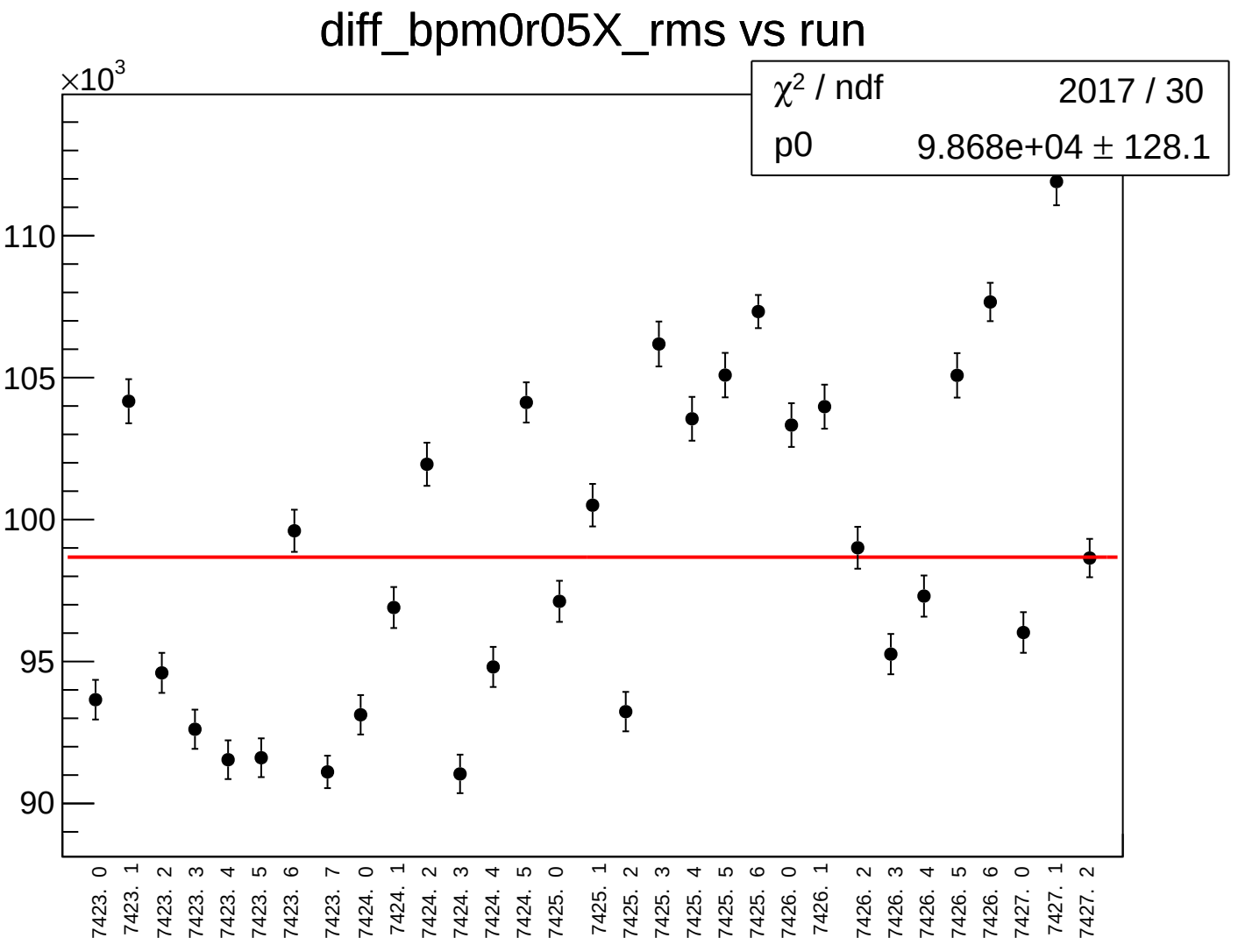

diff_bpm0r03Y_mean vs run
χ² / ndf 22.57 / 30
p0 4.818 ± 2.793
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 17.69
Std Dev 42.96
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

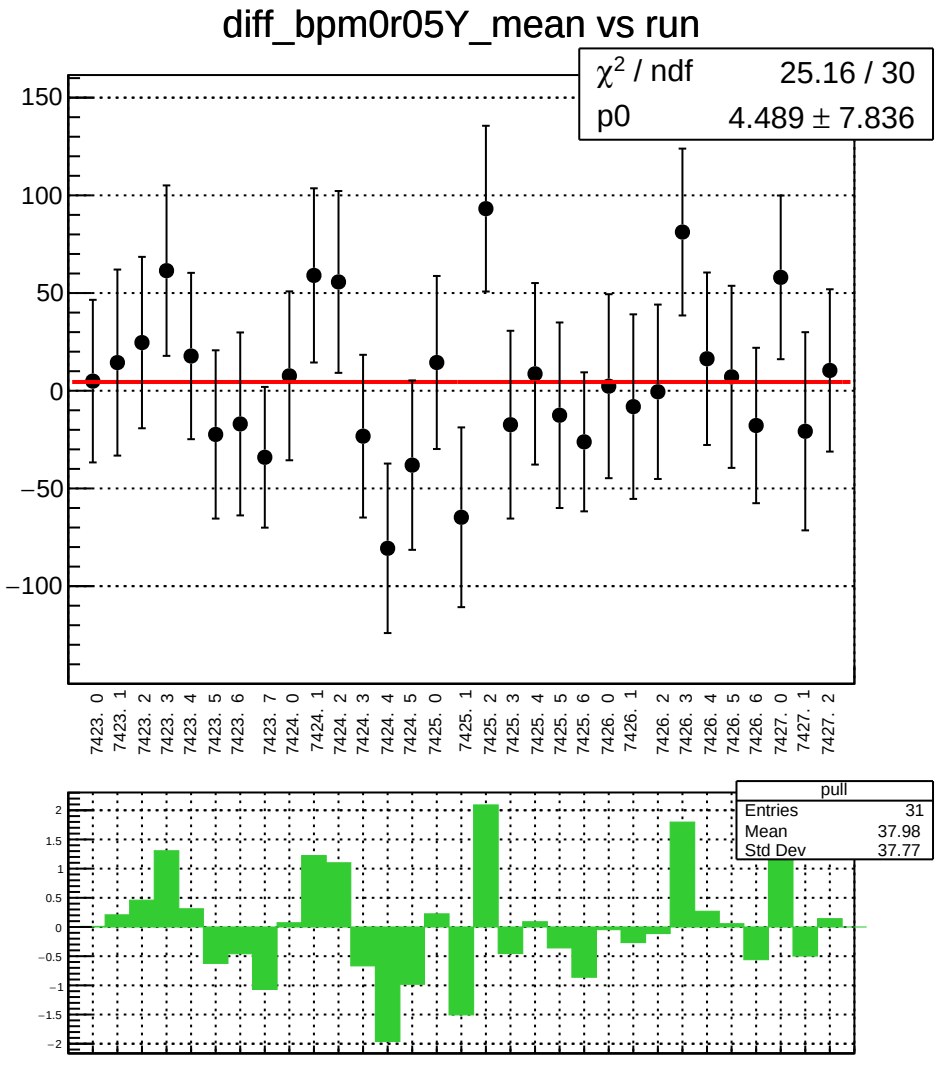

pull1D
Entries 31
Mean 0.01088
Std Dev 0.8532
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

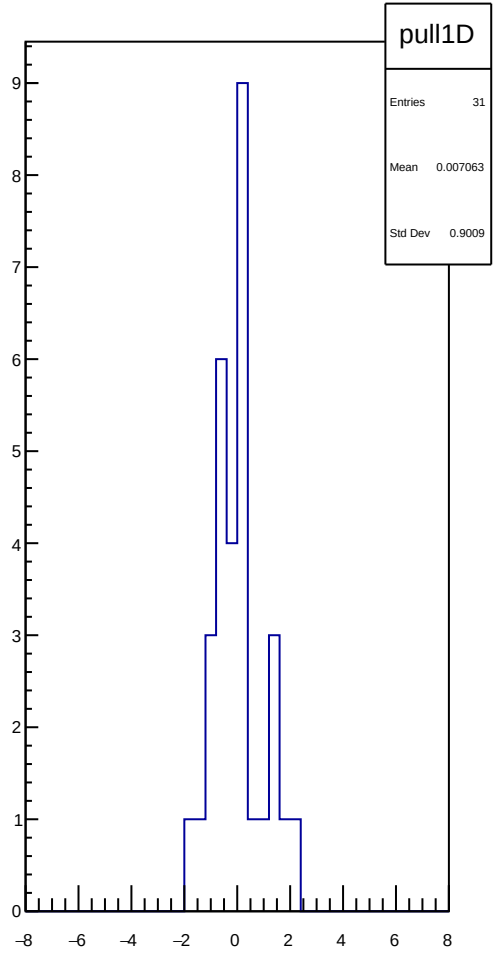

diff_bpm0r03Y_rms vs run
χ² / ndf 953.5 / 30
p0 1523 ± 1.975
1700
1650
1600
1550
1500
1450
1400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

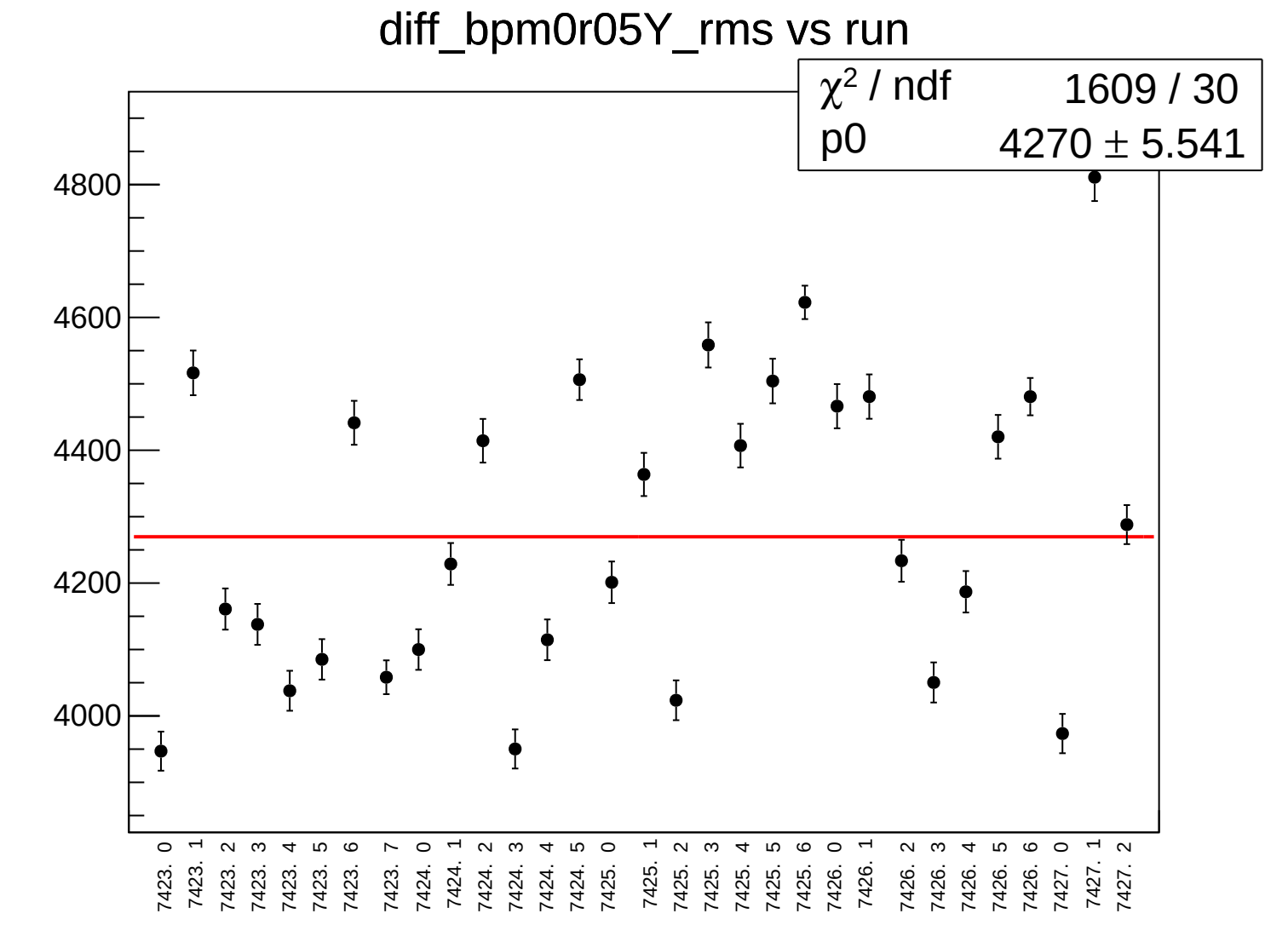

diff_bpm0r05X_mean vs run
χ² / ndf 26.91 / 30
p0 67.27 ± 181.1
4000
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −51.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

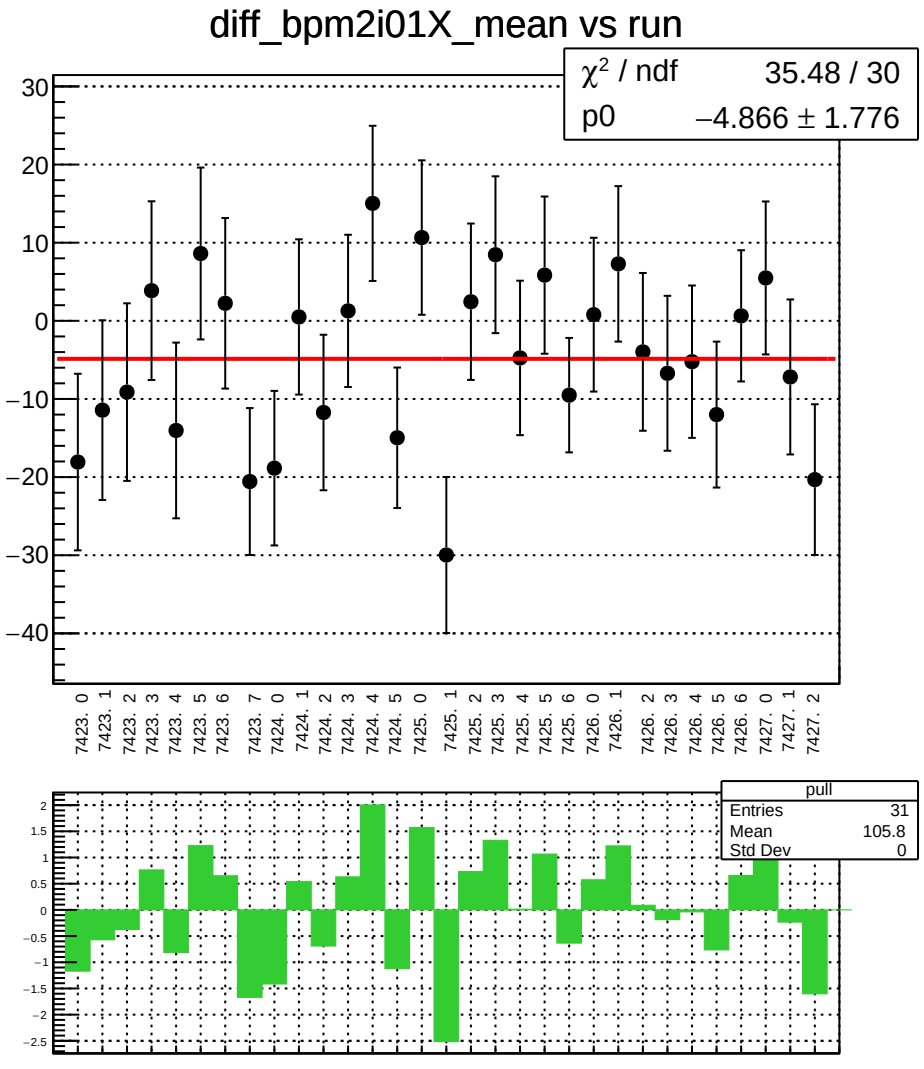

pull1D
Entries 31
Mean 0.00481
Std Dev 0.9318
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

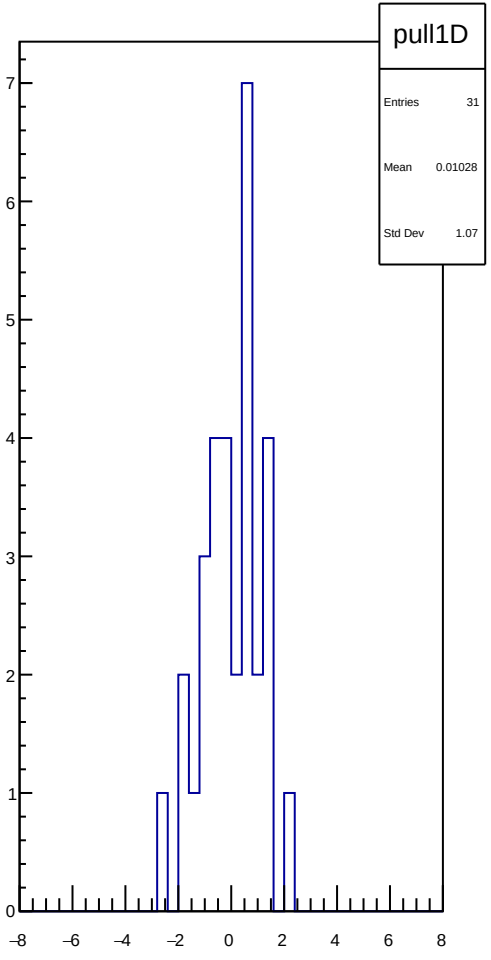

diff_bpm0r05X_rms vs run
×10^3
χ^2 / ndf 2017 / 30
p0 9.868e+04 ± 128.1
110
105
100
95
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

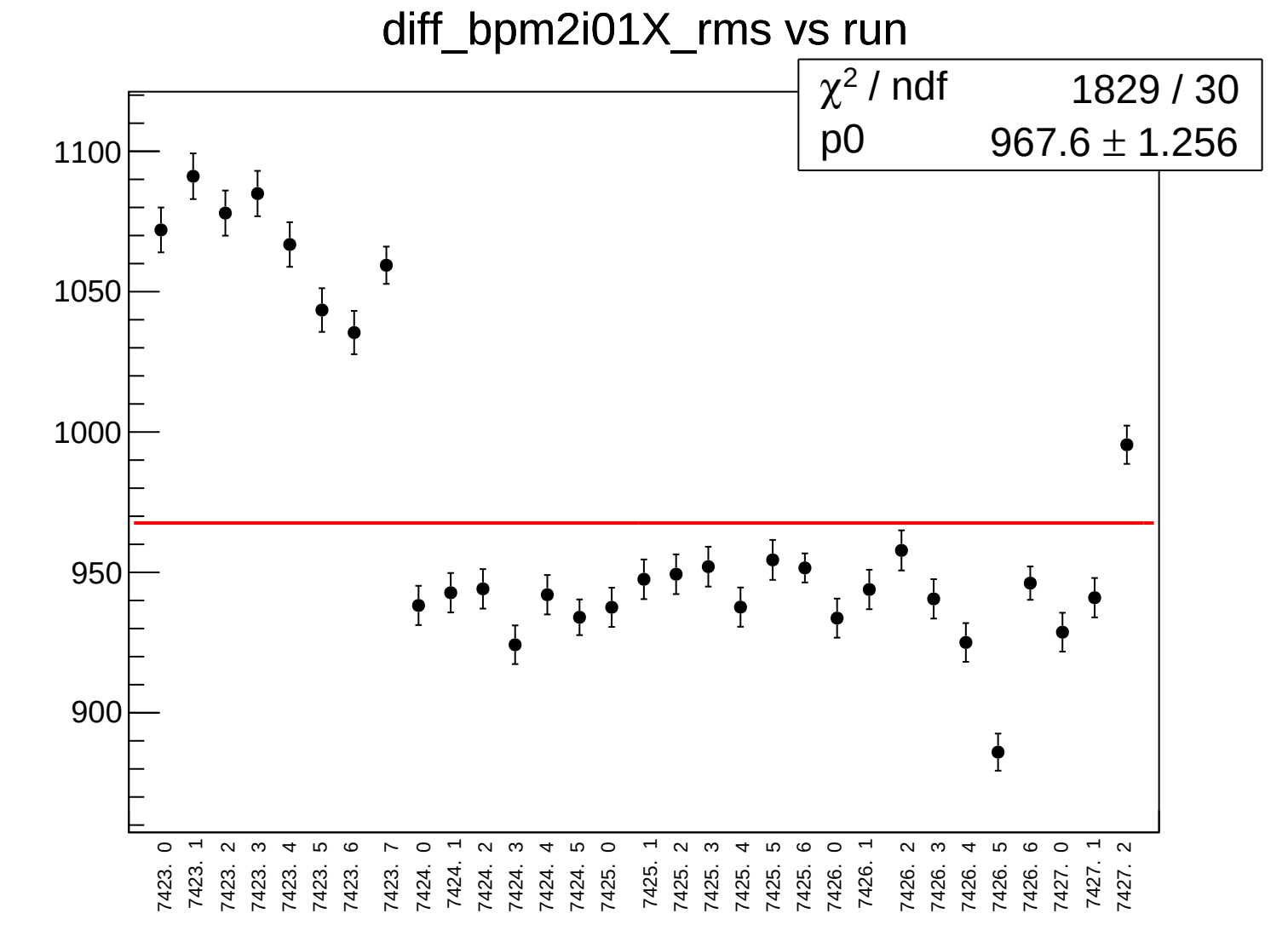

diff_bpm0r05Y_mean vs run
χ² / ndf 25.16 / 30
p0 4.489 ± 7.836
150
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 37.98
Std Dev 37.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

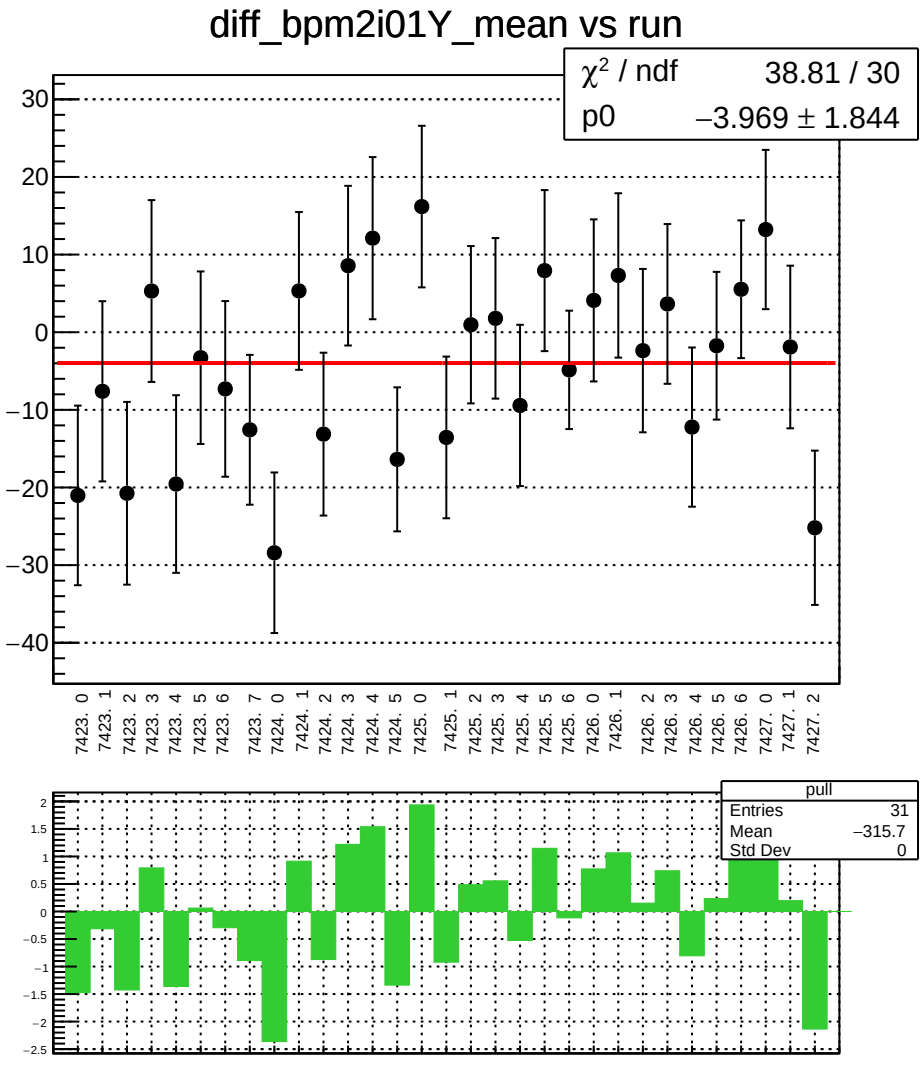

pull1D
Entries 31
Mean 0.007063
Std Dev 0.9009
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

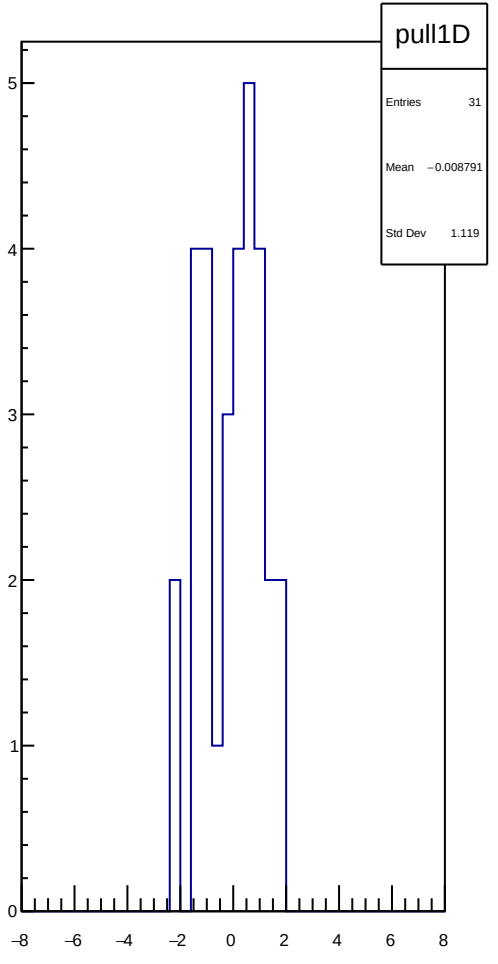

diff_bpm0r05Y_rms vs run
χ² / ndf 1609 / 30
p0 4270 ± 5.541
4800
4600
4400
4200
4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

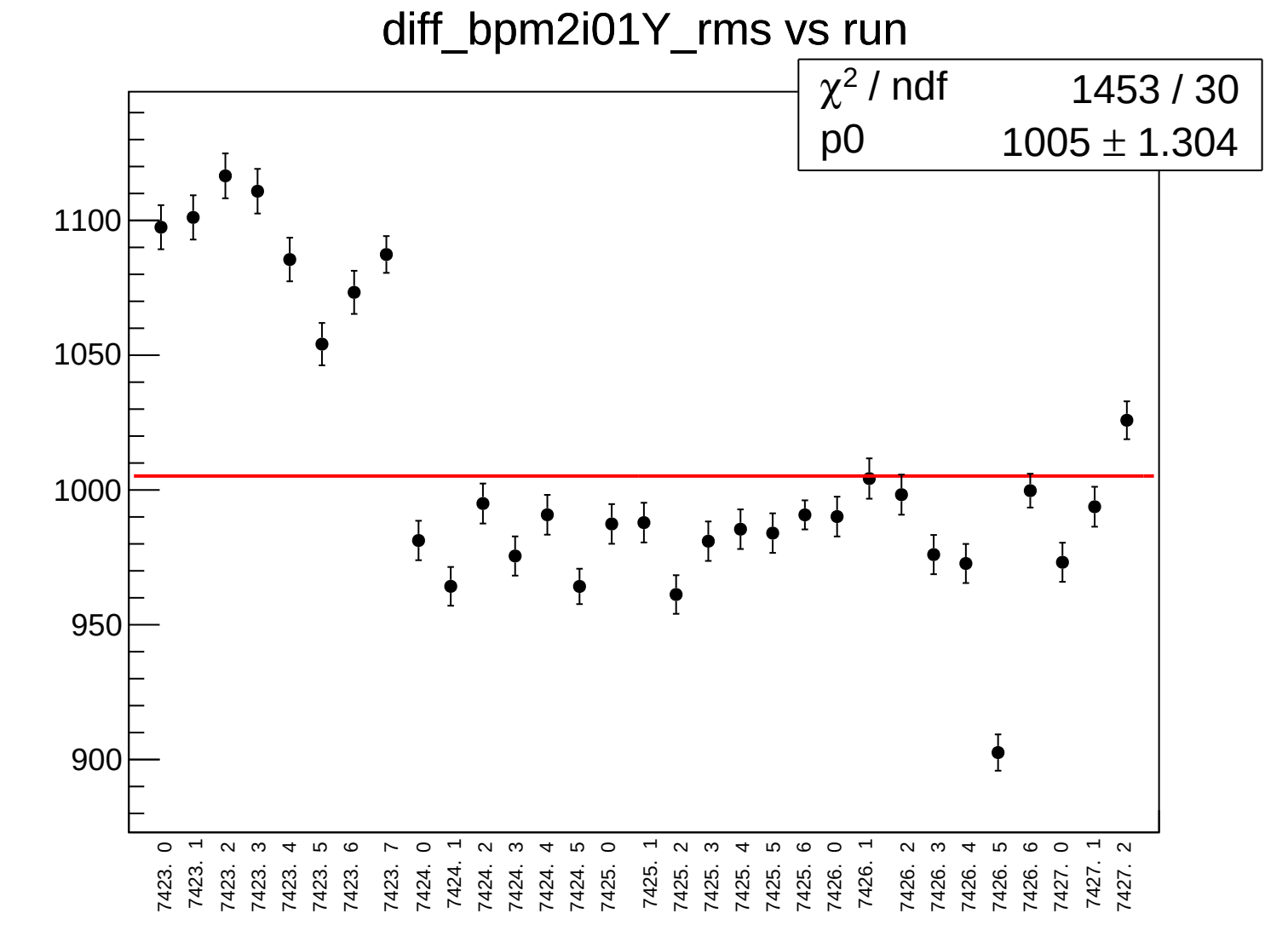

diff_bpm2i01X_mean vs run
χ² / ndf 35.48 / 30
p0 −4.866 ± 1.776
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 105.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

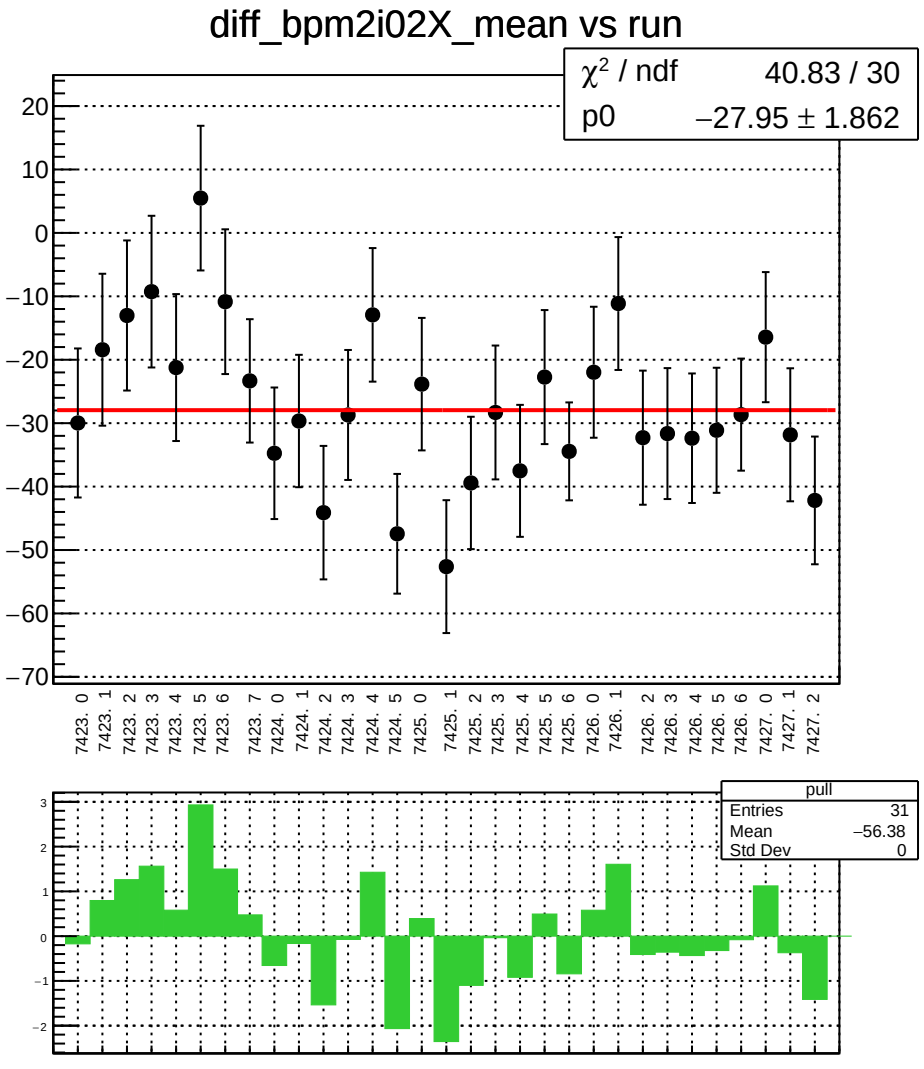

pull1D
Entries 31
Mean 0.01028
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

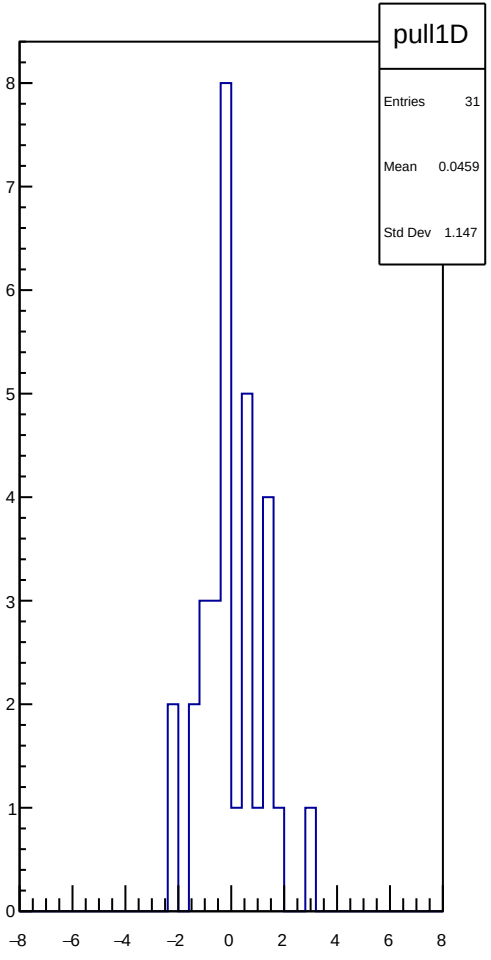

diff_bpm2i01X_rms vs run
χ² / ndf 1829 / 30
p0 967.6 ± 1.256
1100
1050
1000
950
900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

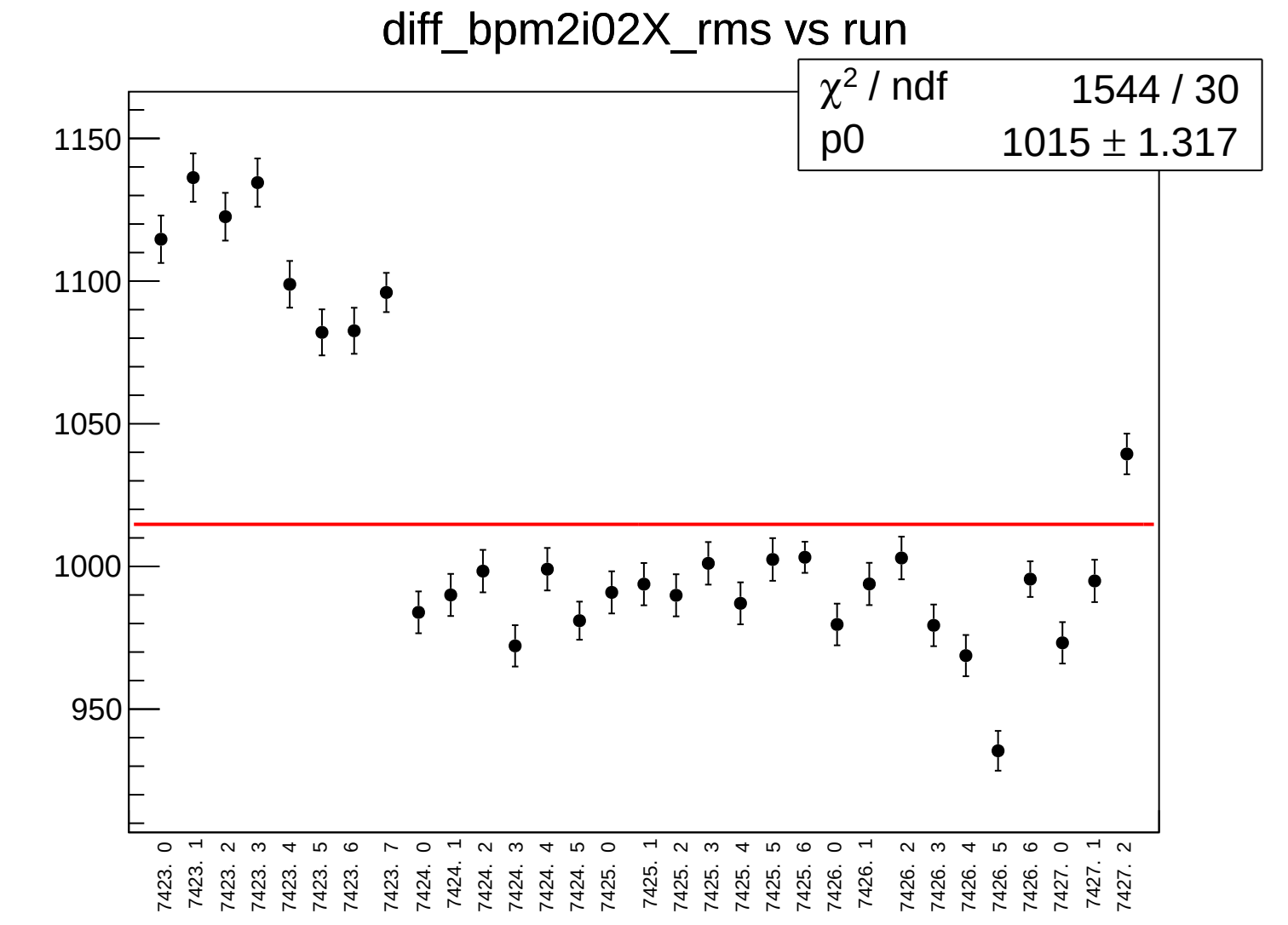

diff_bpm2i01Y_mean vs run
χ² / ndf 38.81 / 30
p0 −3.969 ± 1.844
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −315.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

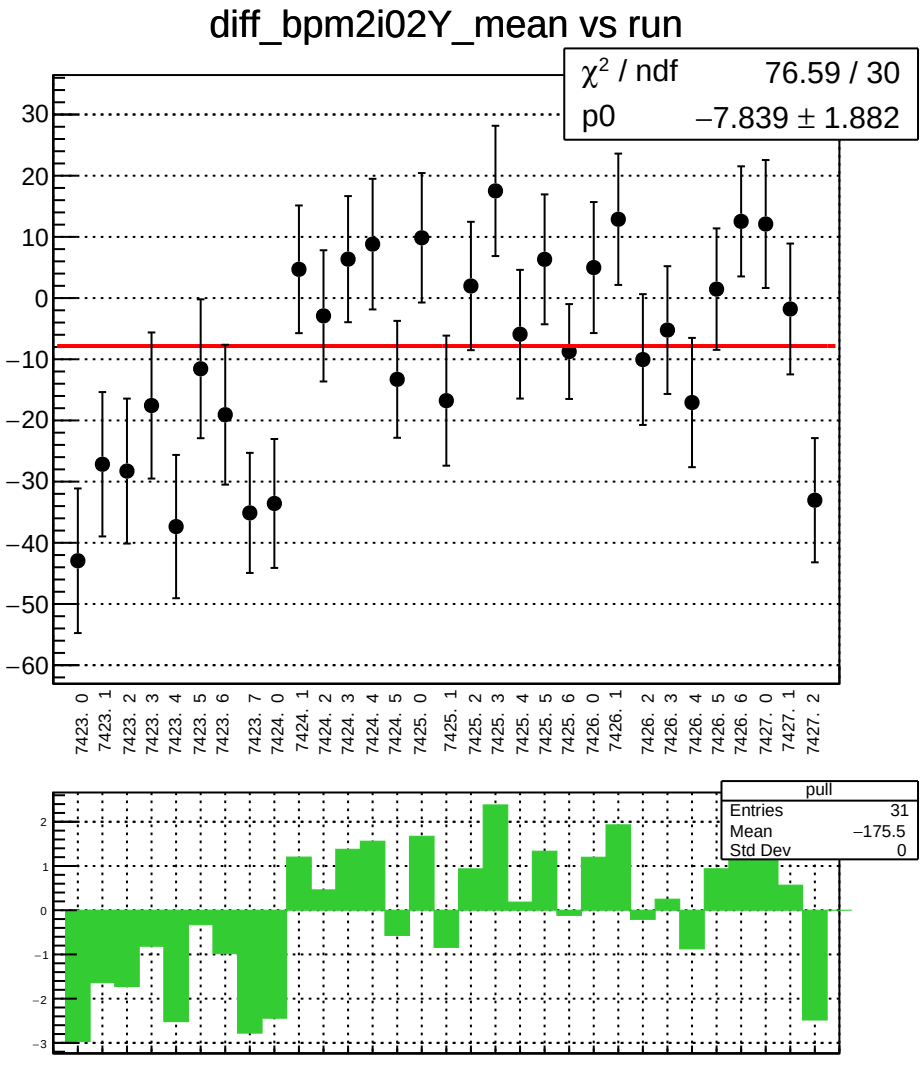

pull1D
Entries 31
Mean −0.008791
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

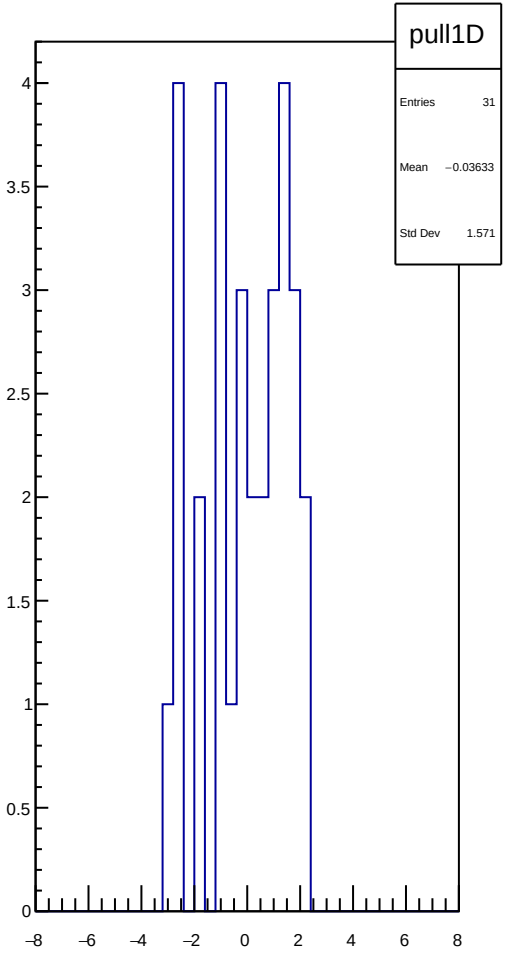

diff_bpm2i01Y_rms vs run
χ² / ndf 1453 / 30
p0 1005 ± 1.304
1100
1050
1000
950
900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

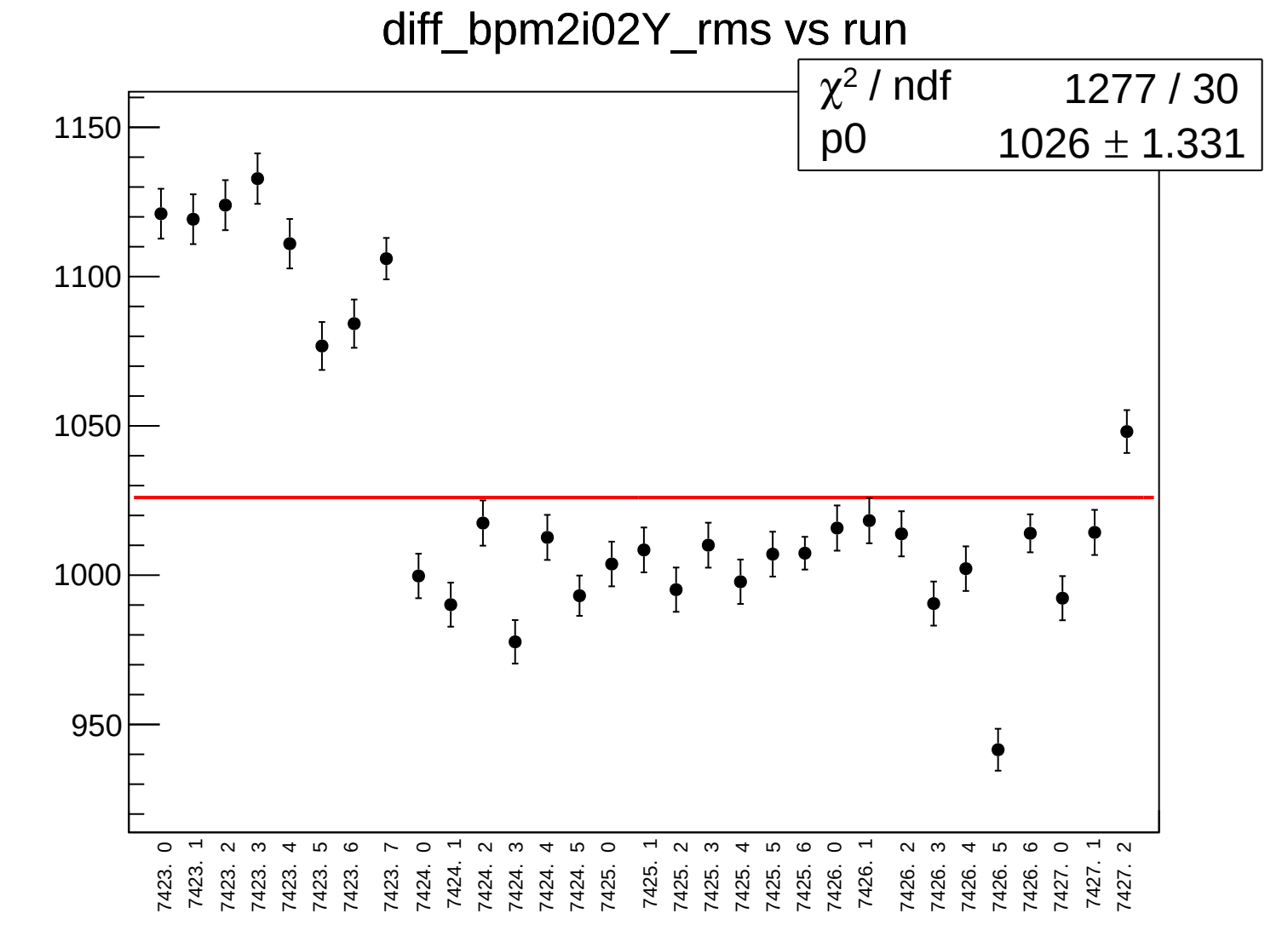

diff_bpm2i02X_mean vs run
χ² / ndf 40.83 / 30
p0 −27.95 ± 1.862
pull
Entries 31
Mean −56.38
Std Dev 0

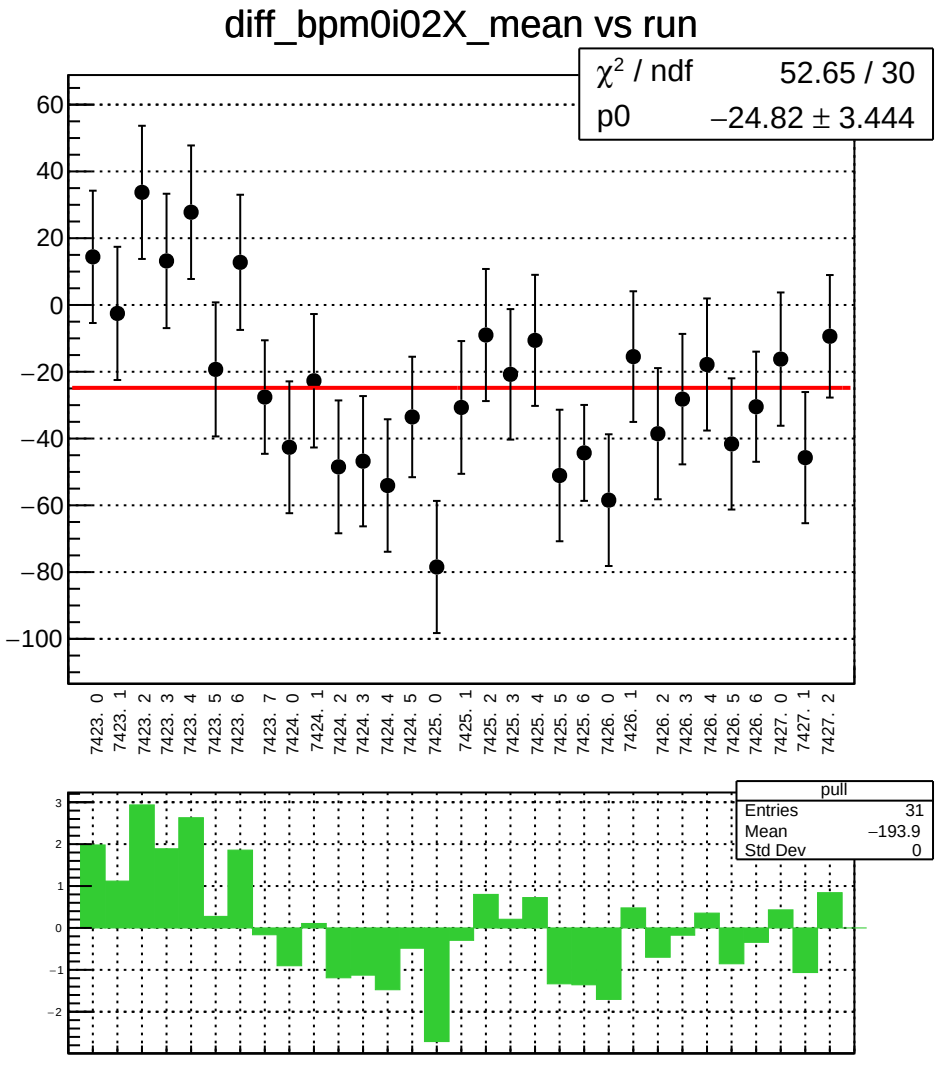

pull1D
Entries 31
Mean 0.0459
Std Dev 1.147

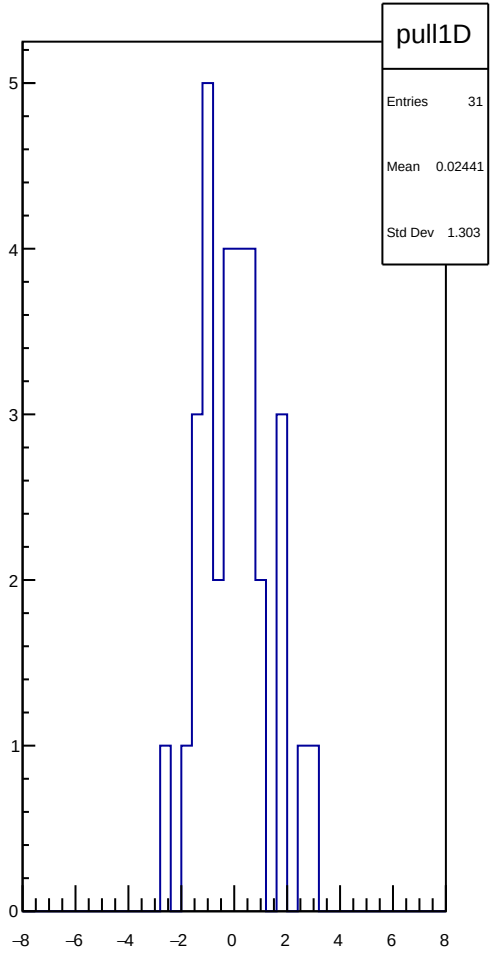

diff_bpm2i02X_rms vs run
χ² / ndf 1544 / 30
p0 1015 ± 1.317
1150
1100
1050
1000
950
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

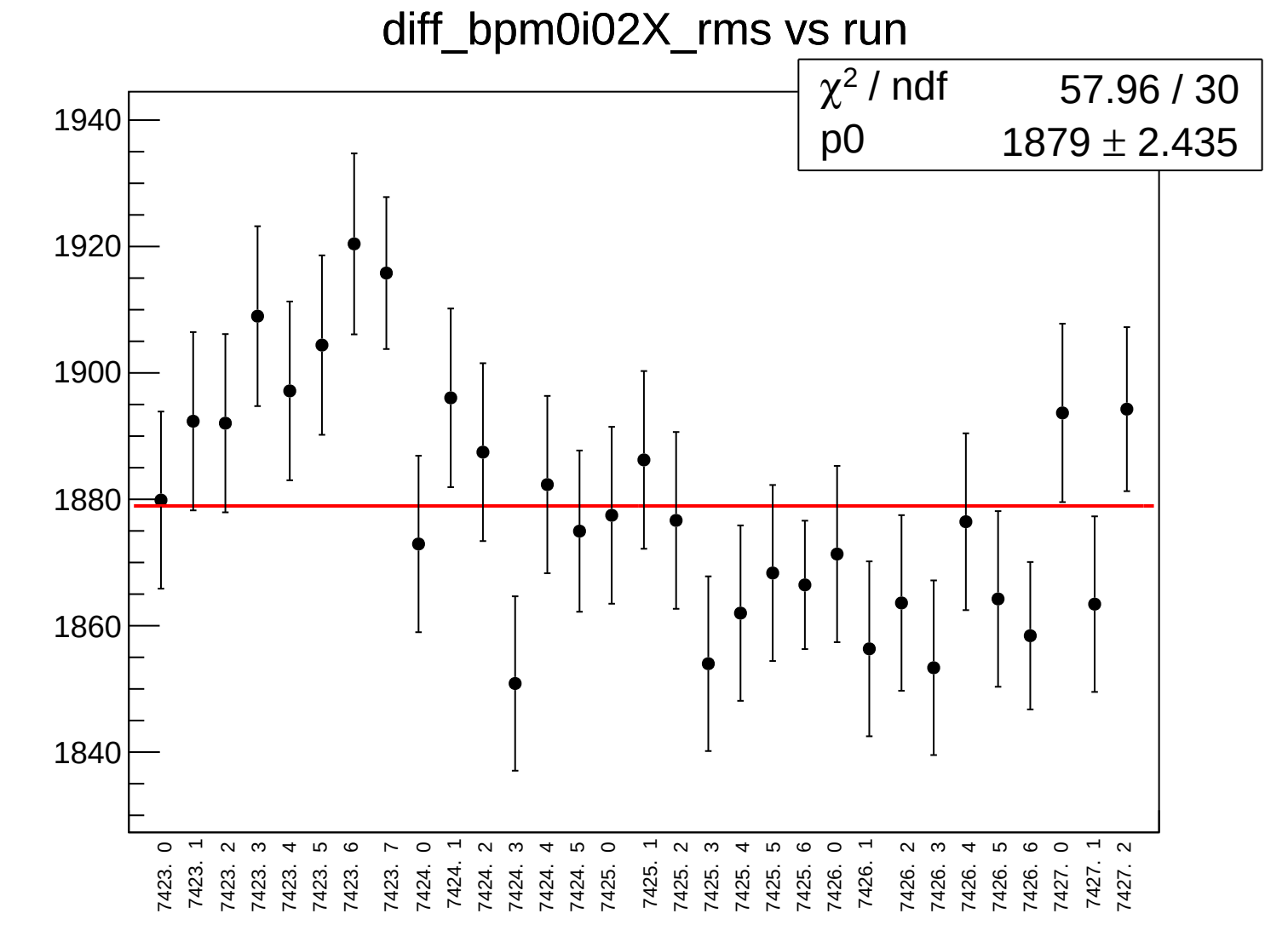

diff_bpm2i02Y_mean vs run
χ² / ndf 76.59 / 30
p0 −7.839 ± 1.882
30
20
10
0
−10
−20
−30
−40
−50
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −175.5
Std Dev 0
2
1
0
−1
−2
−3

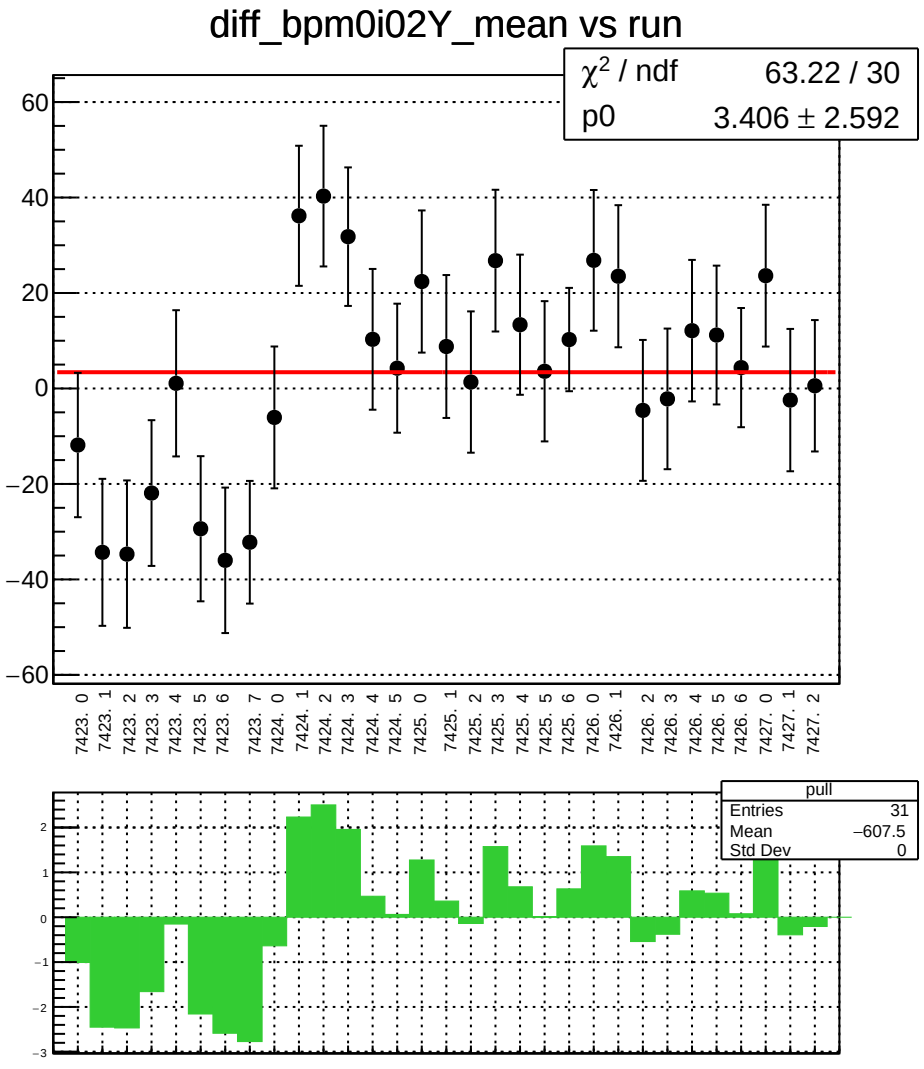

pull1D
Entries 31
Mean −0.03633
Std Dev 1.571
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

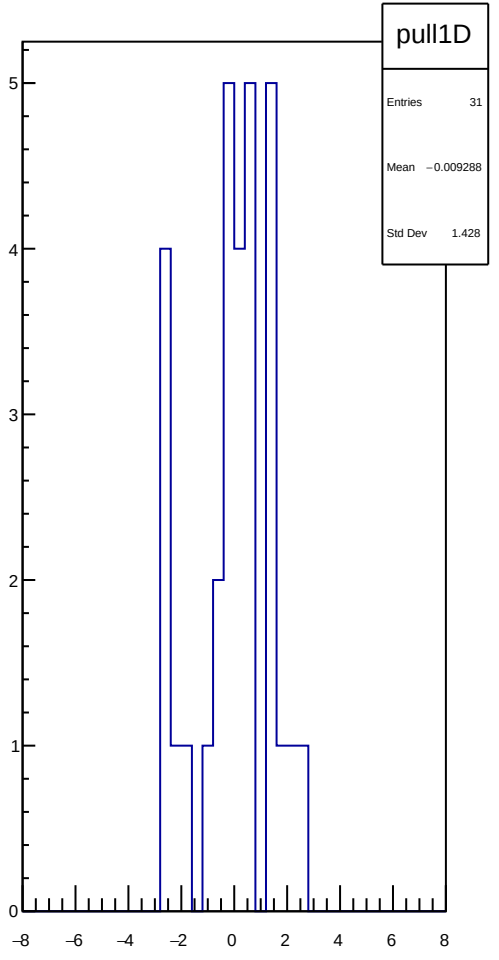

diff_bpm2i02Y_rms vs run
χ² / ndf 1277 / 30
p0 1026 ± 1.331
1150
1100
1050
1000
950
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

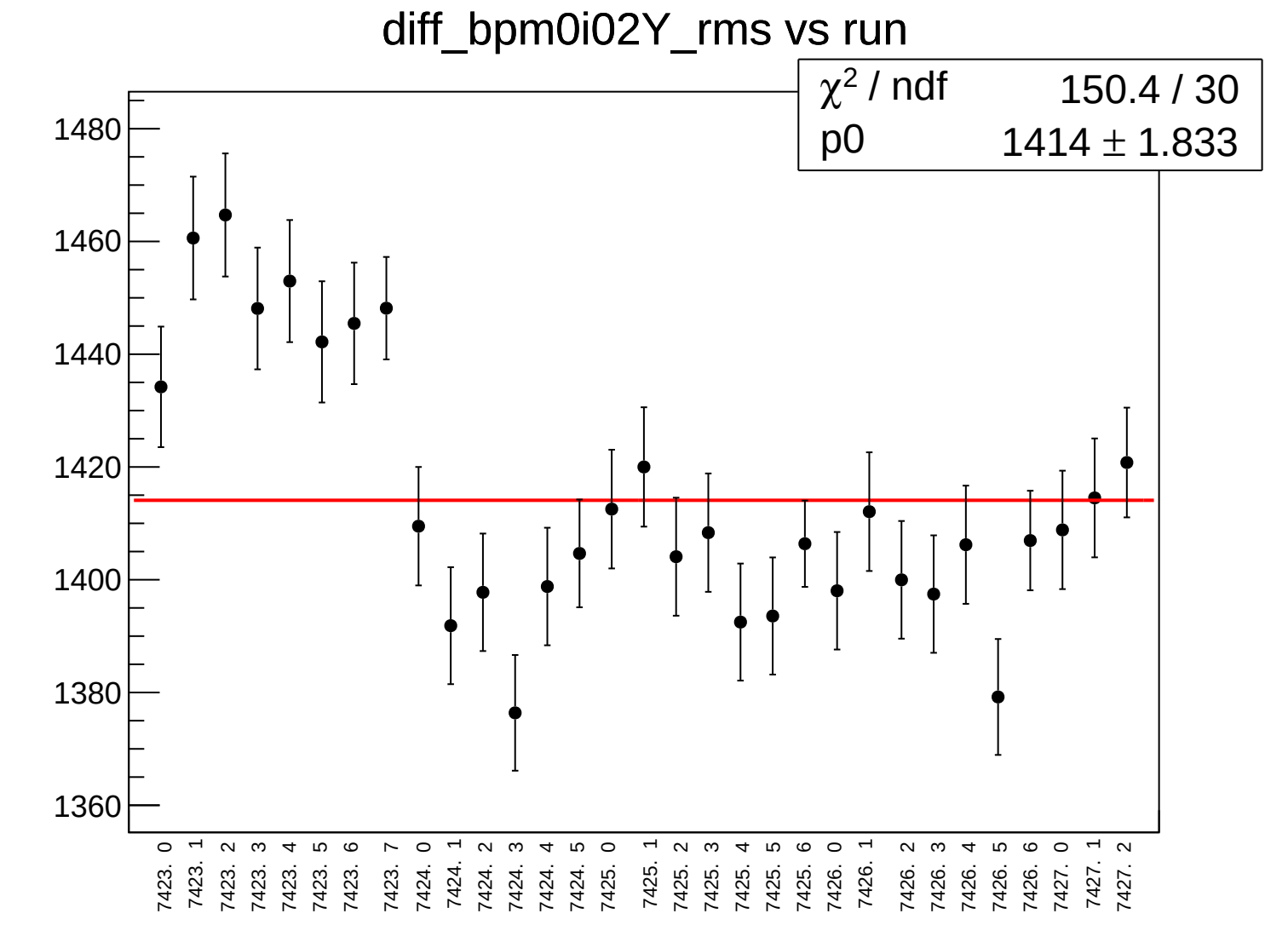

diff_bpm0i02X_mean vs run
χ² / ndf 52.65 / 30
p0 −24.82 ± 3.444
pull
Entries 31
Mean −193.9
Std Dev 0

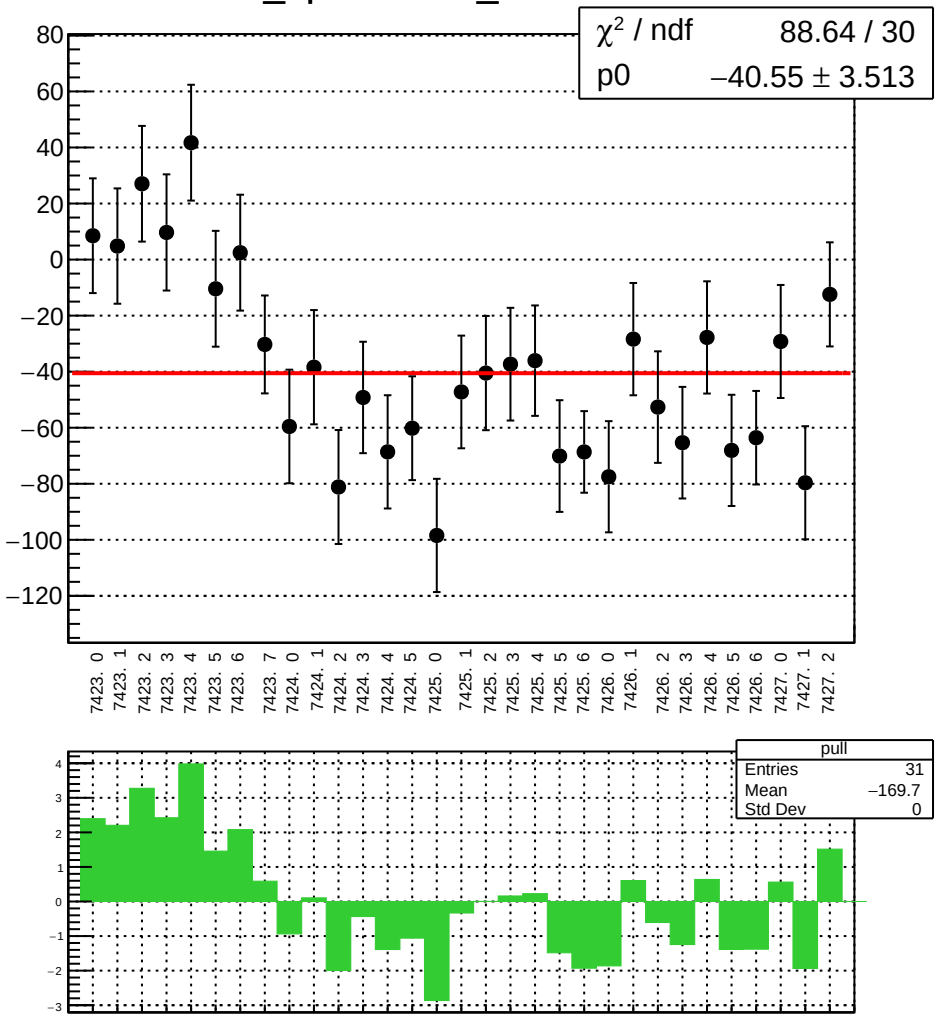

pull1D
Entries 31
Mean 0.02441
Std Dev 1.303

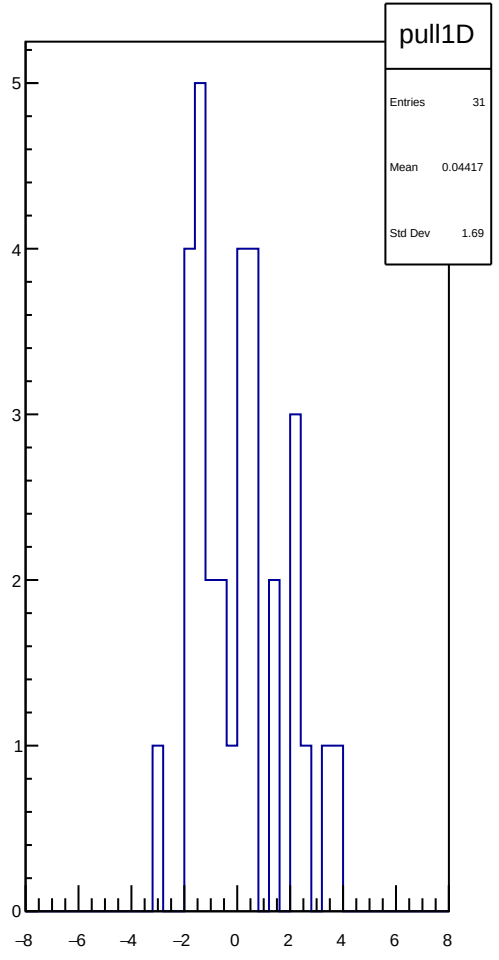

diff_bpm0i02X_rms vs run
χ² / ndf 57.96 / 30
p0 1879 ± 2.435
1940
1920
1900
1880
1860
1840
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

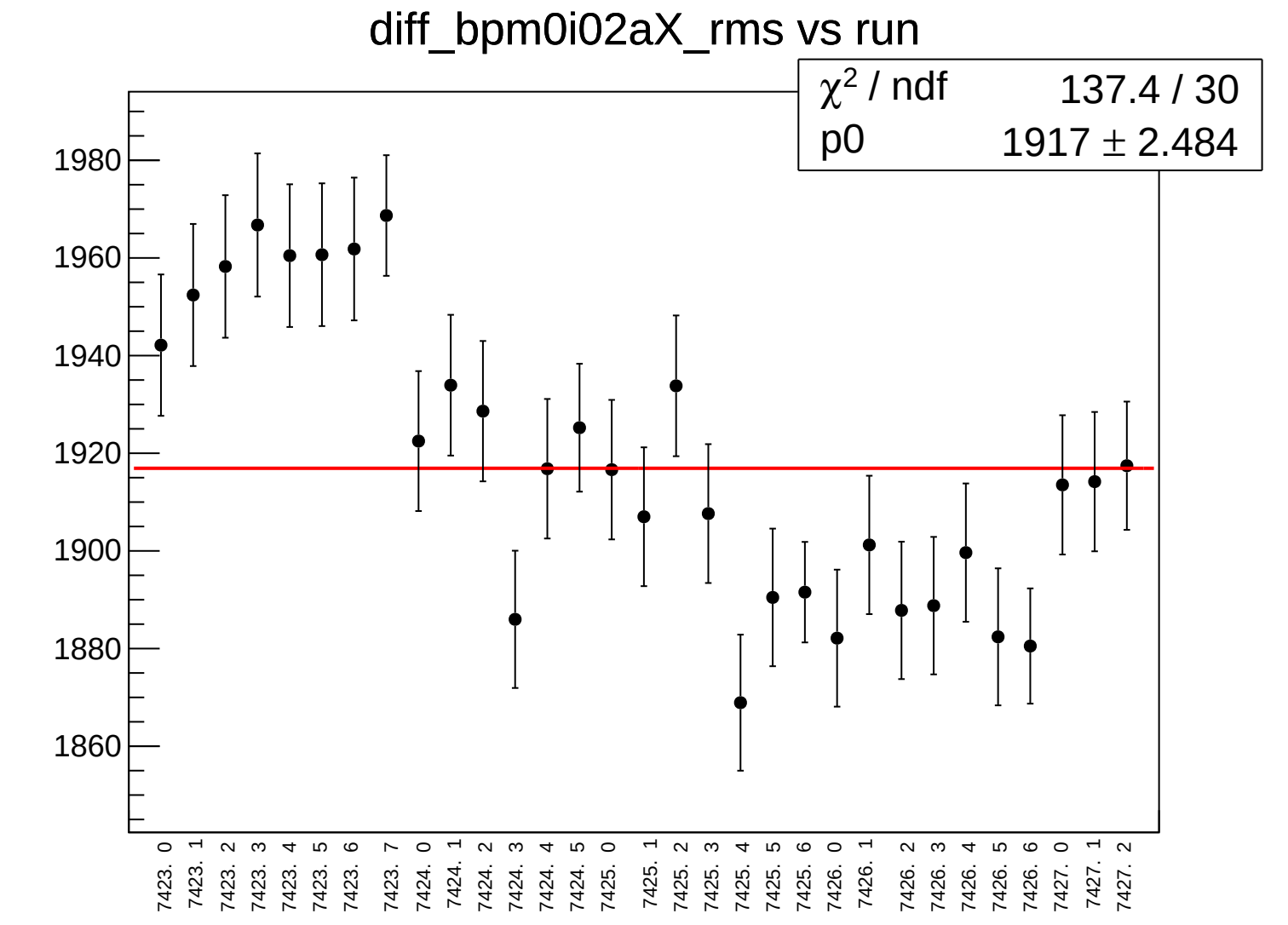

diff_bpm0i02Y_mean vs run
χ² / ndf 63.22 / 30
p0 3.406 ± 2.592
60
40
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −607.5
Std Dev 0
2
1
0
−1
−2
−3

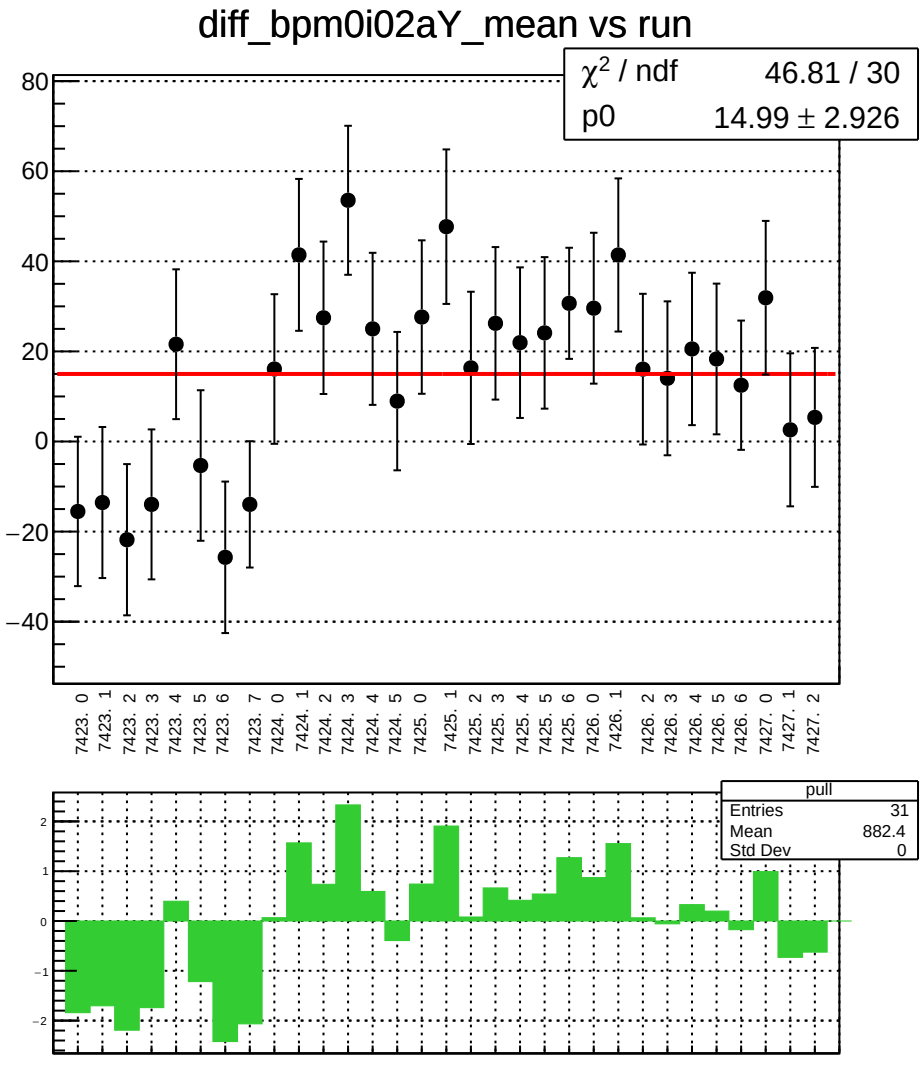

pull1D
Entries 31
Mean −0.009288
Std Dev 1.428
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

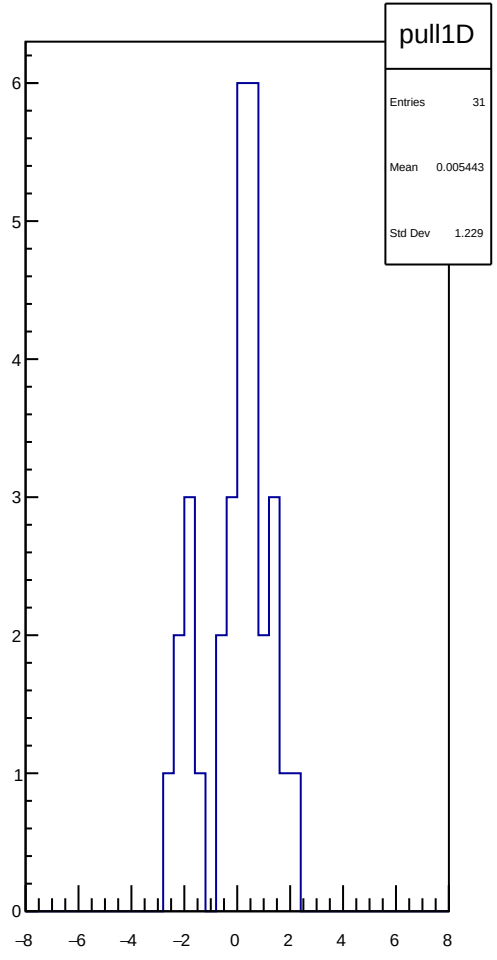

diff_bpm0i02Y_rms vs run
χ² / ndf 150.4 / 30
p0 1414 ± 1.833
1480
1460
1440
1420
1400
1380
1360
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

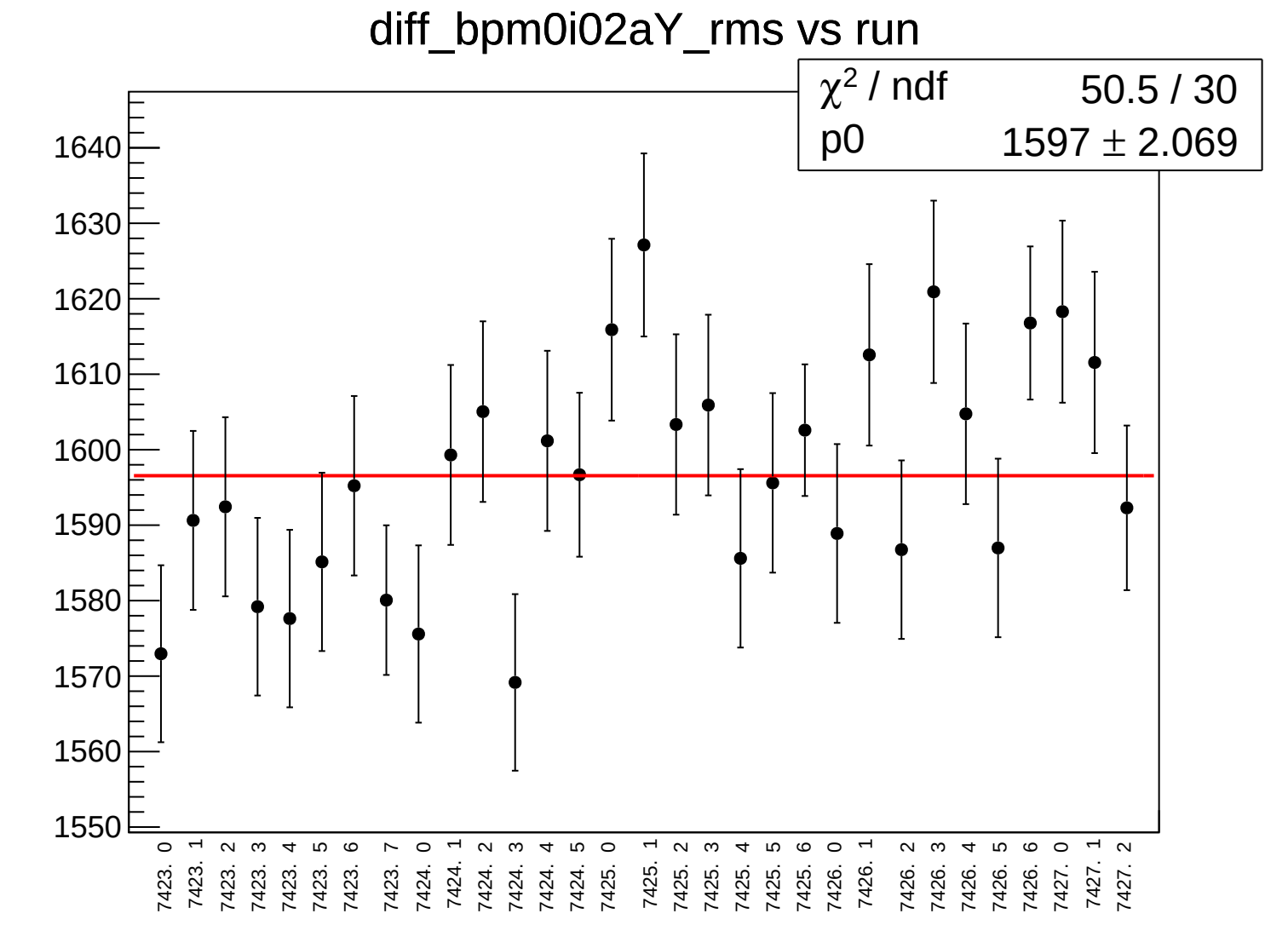

diff_bpm0i02aX_mean vs run
χ² / ndf 88.64 / 30
p0 −40.55 ± 3.513
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −169.7
Std Dev 0
4
3
2
1
0
−1
−2
−3

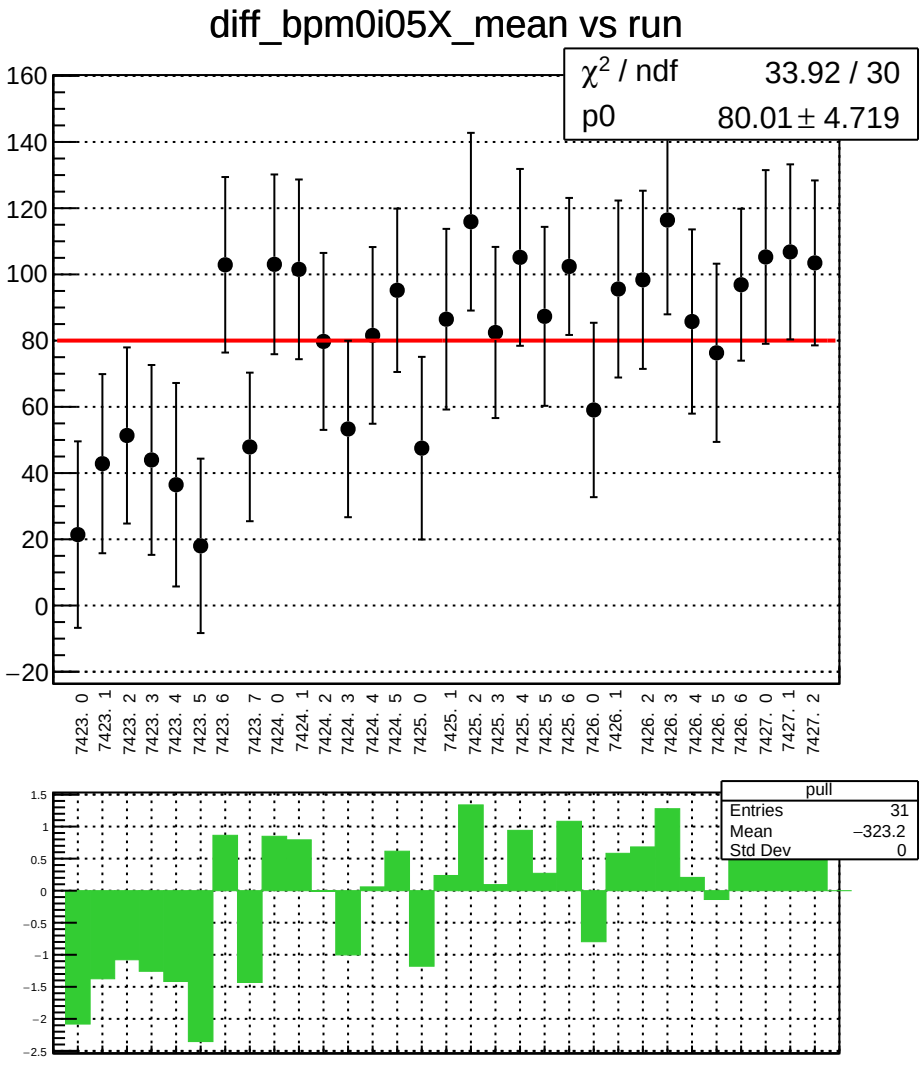

pull1D
Entries 31
Mean 0.04417
Std Dev 1.69
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

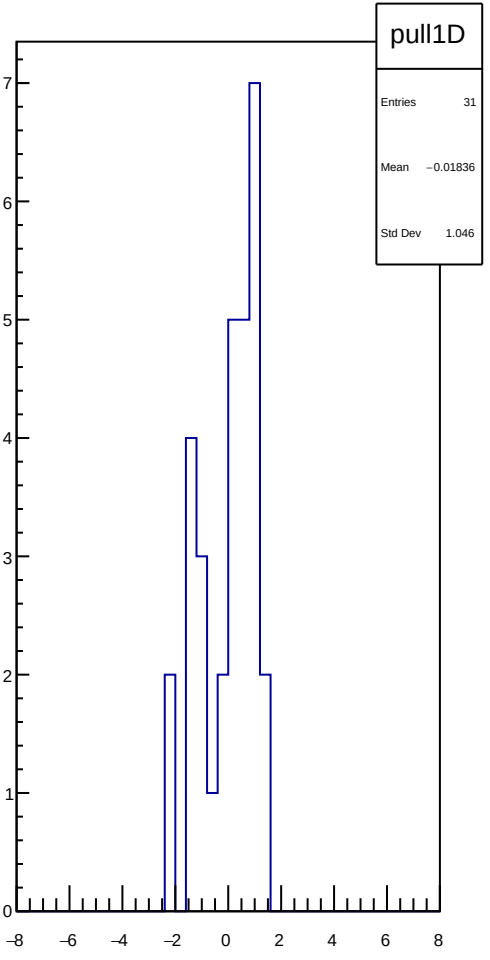

diff_bpm0i02aX_rms vs run
χ² / ndf 137.4 / 30
p0 1917 ± 2.484
1980
1960
1940
1920
1900
1880
1860
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

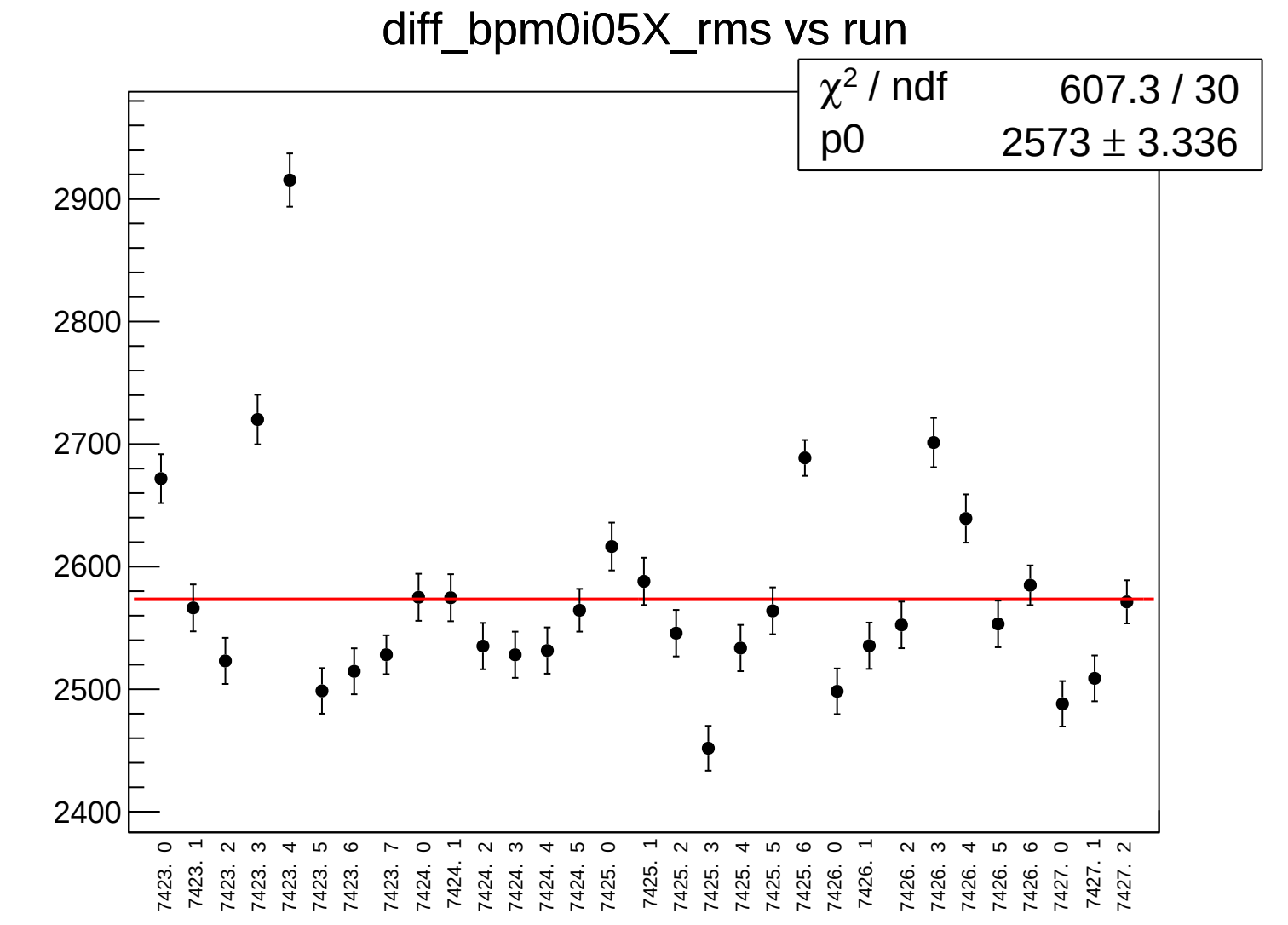

diff_bpm0i02aY_mean vs run
χ² / ndf 46.81 / 30
p0 14.99 ± 2.926
80
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 882.4
Std Dev 0
2
1
0
−1
−2

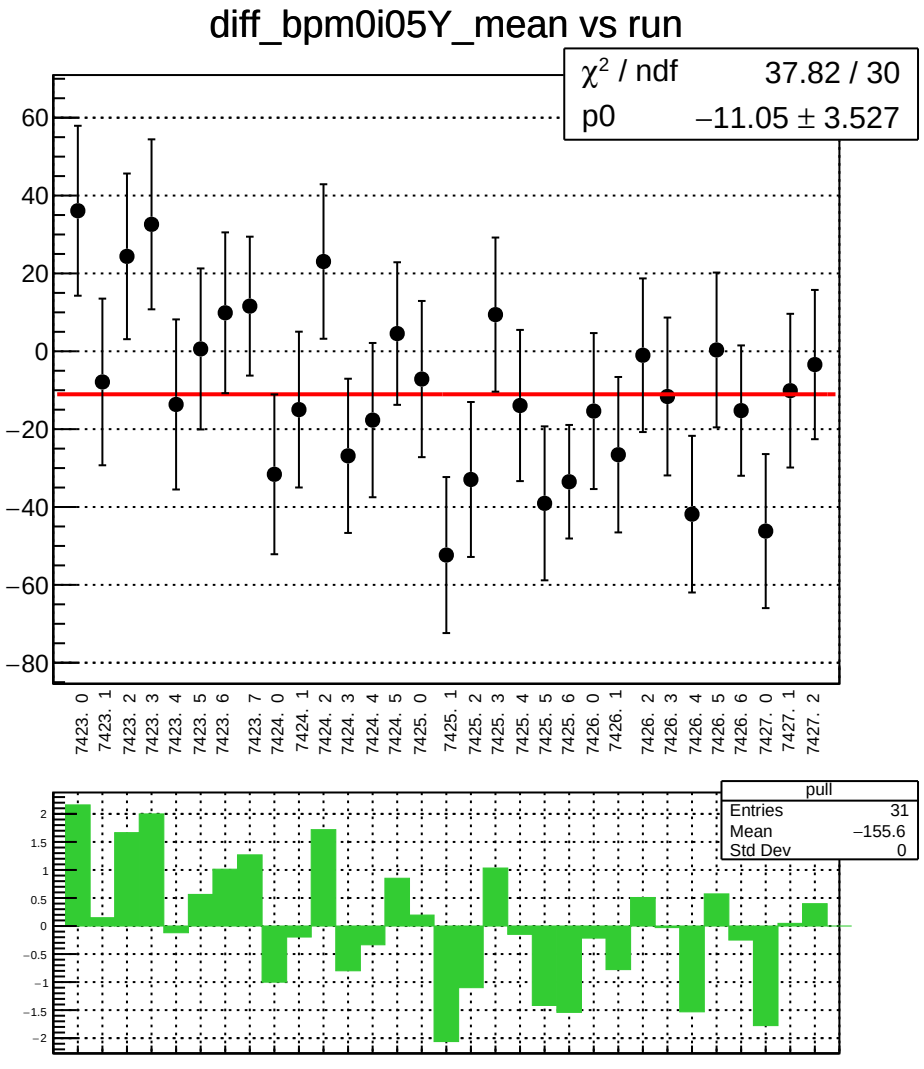

pull1D
Entries 31
Mean 0.005443
Std Dev 1.229
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

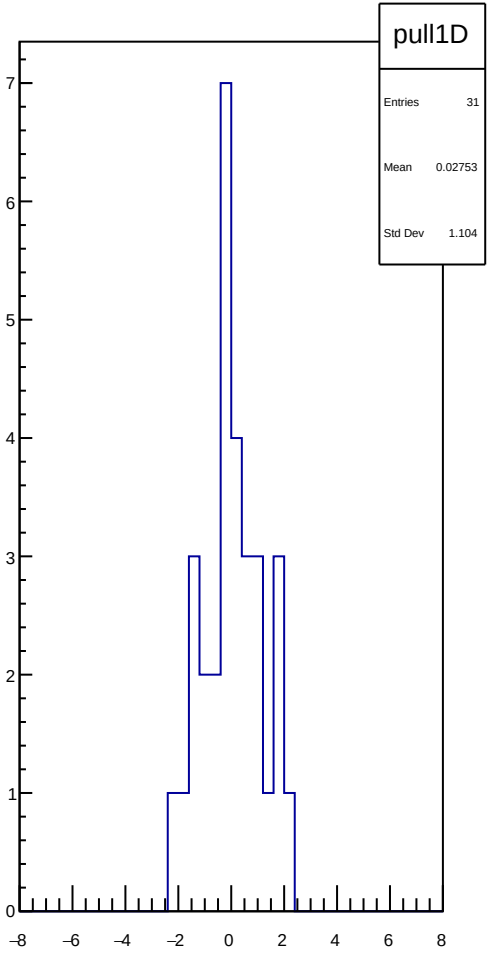

diff_bpm0i02aY_rms vs run
χ² / ndf 50.5 / 30
p0 1597 ± 2.069
1640
1630
1620
1610
1600
1590
1580
1570
1560
1550
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

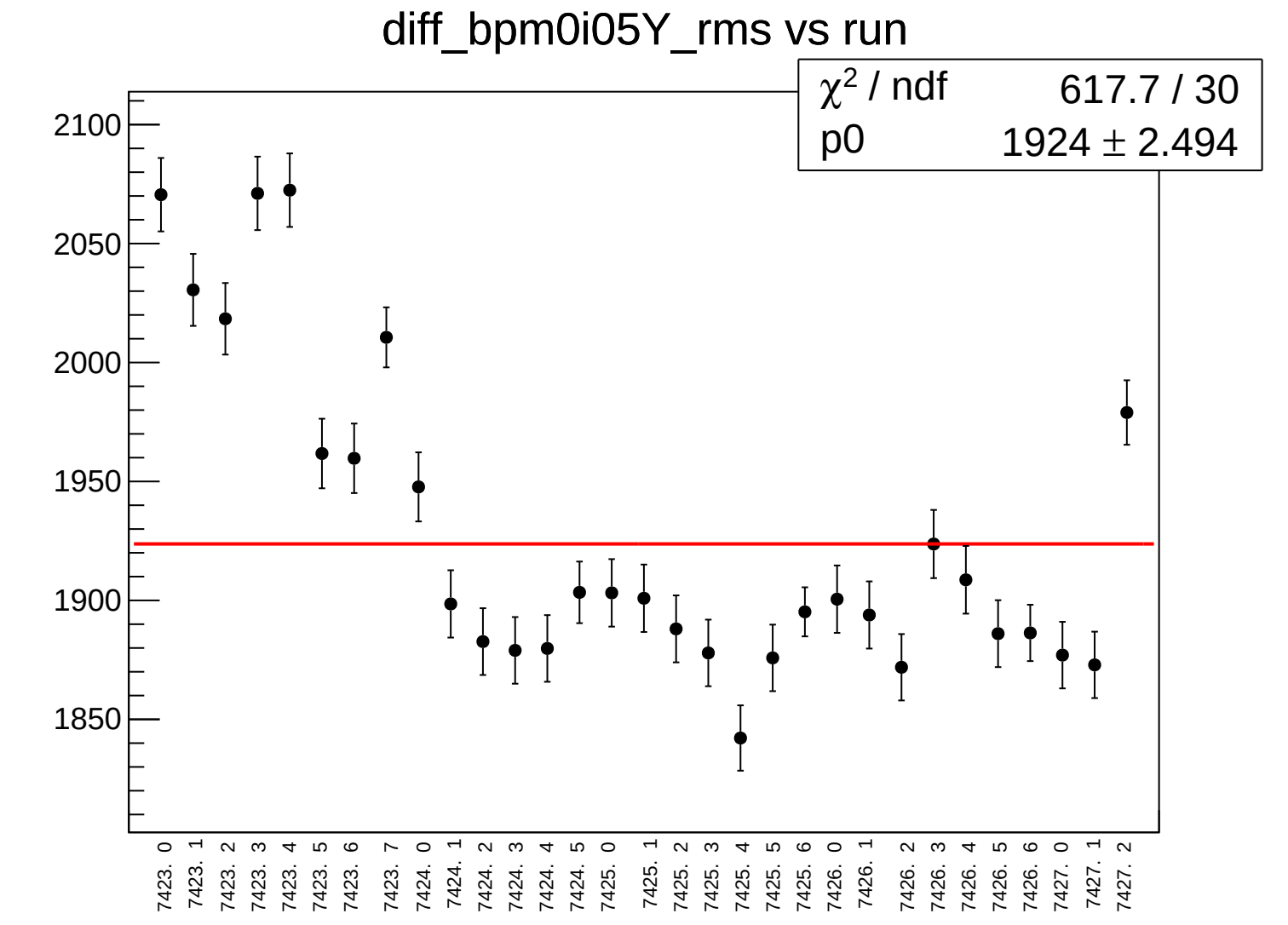

diff_bpm0i05X_mean vs run
χ² / ndf 33.92 / 30
p0 80.01 ± 4.719
160
140
120
100
80
60
40
20
0
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −323.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

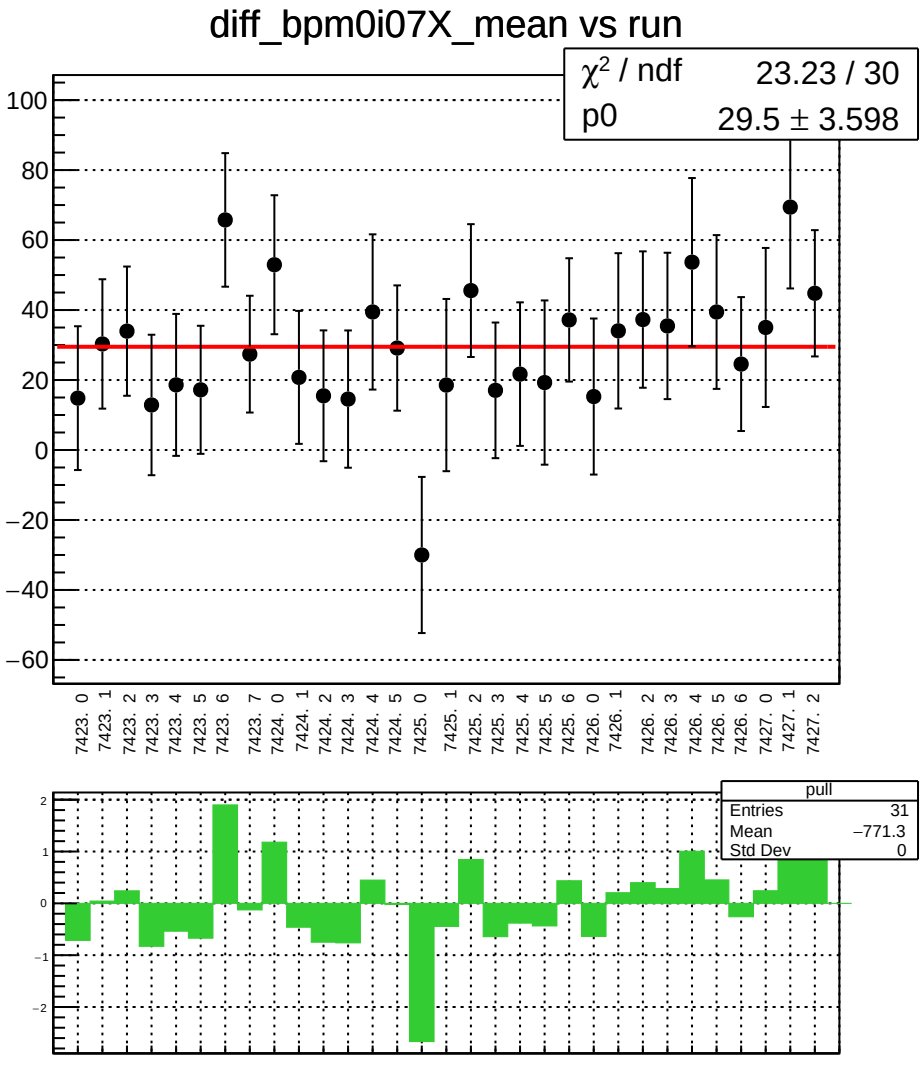

pull1D
Entries 31
Mean −0.01836
Std Dev 1.046
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

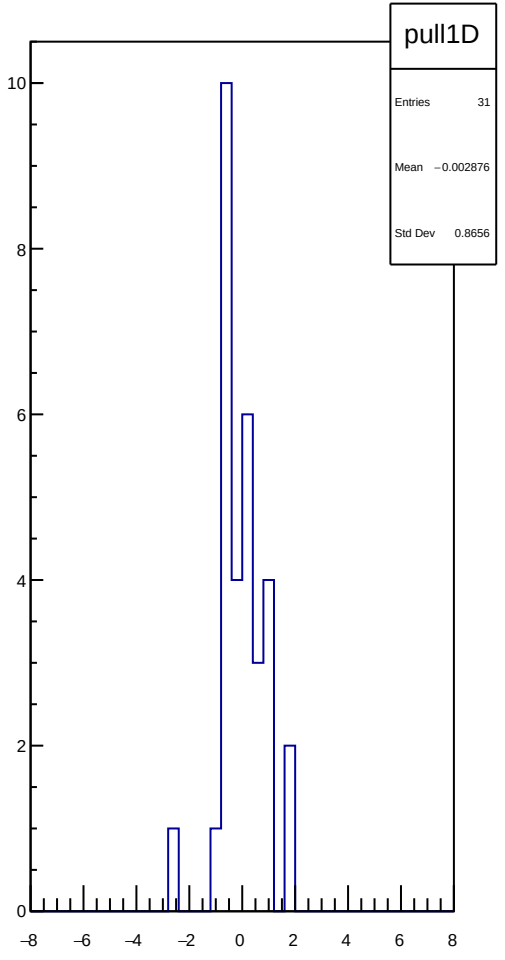

diff_bpm0i05X_rms vs run
χ² / ndf 607.3 / 30
p0 2573 ± 3.336
2900
2800
2700
2600
2500
2400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

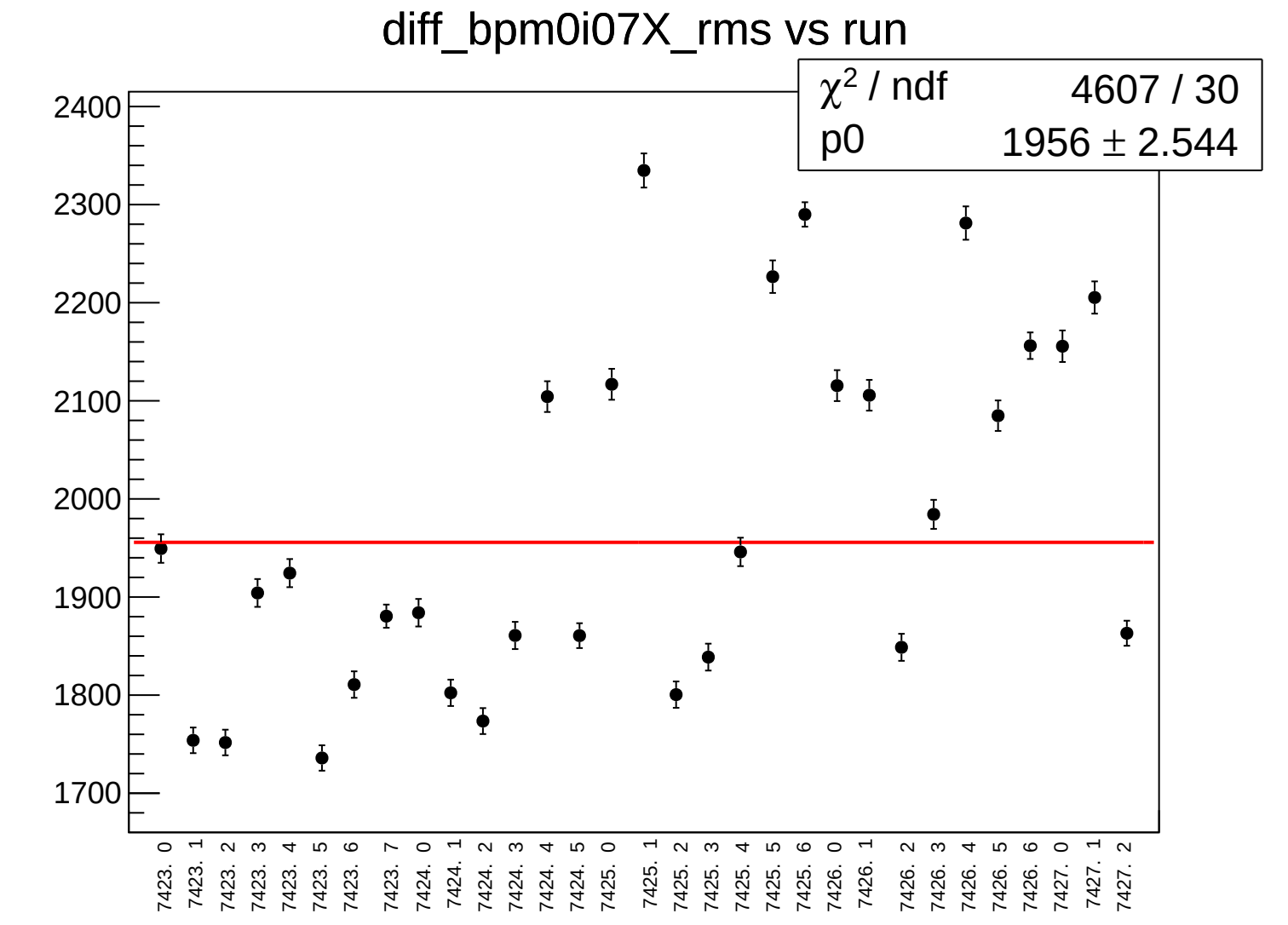

diff_bpm0i05Y_mean vs run
χ² / ndf 37.82 / 30
p0 −11.05 ± 3.527
60
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −155.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

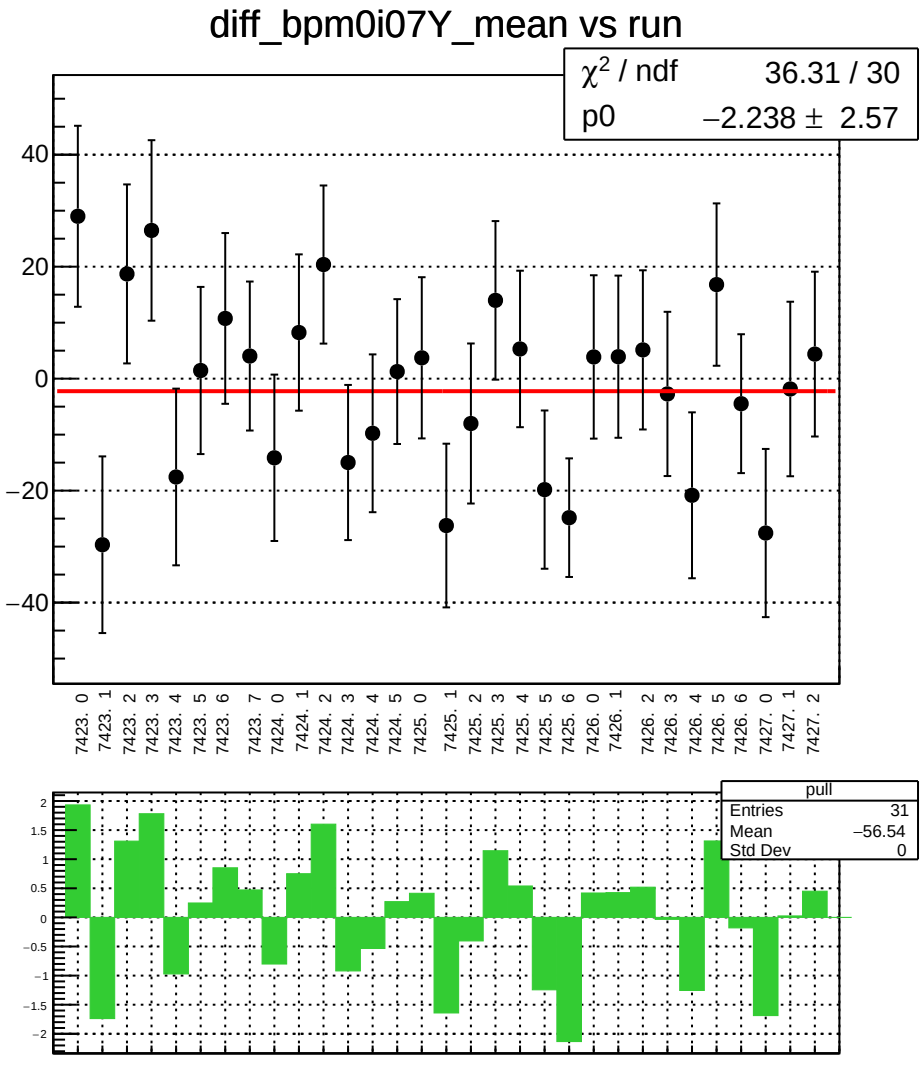

pull1D
Entries 31
Mean 0.02753
Std Dev 1.104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

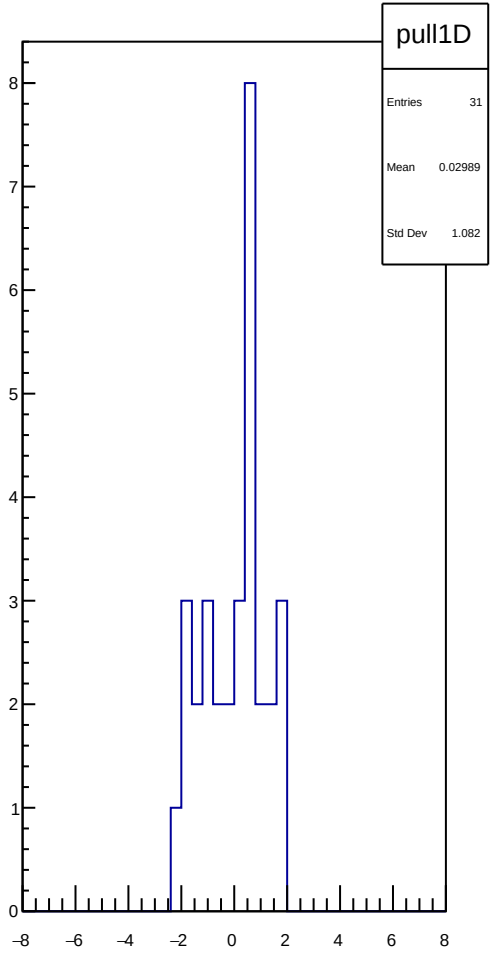

diff_bpm0i05Y_rms vs run
χ² / ndf 617.7 / 30
p0 1924 ± 2.494
2100
2050
2000
1950
1900
1850
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

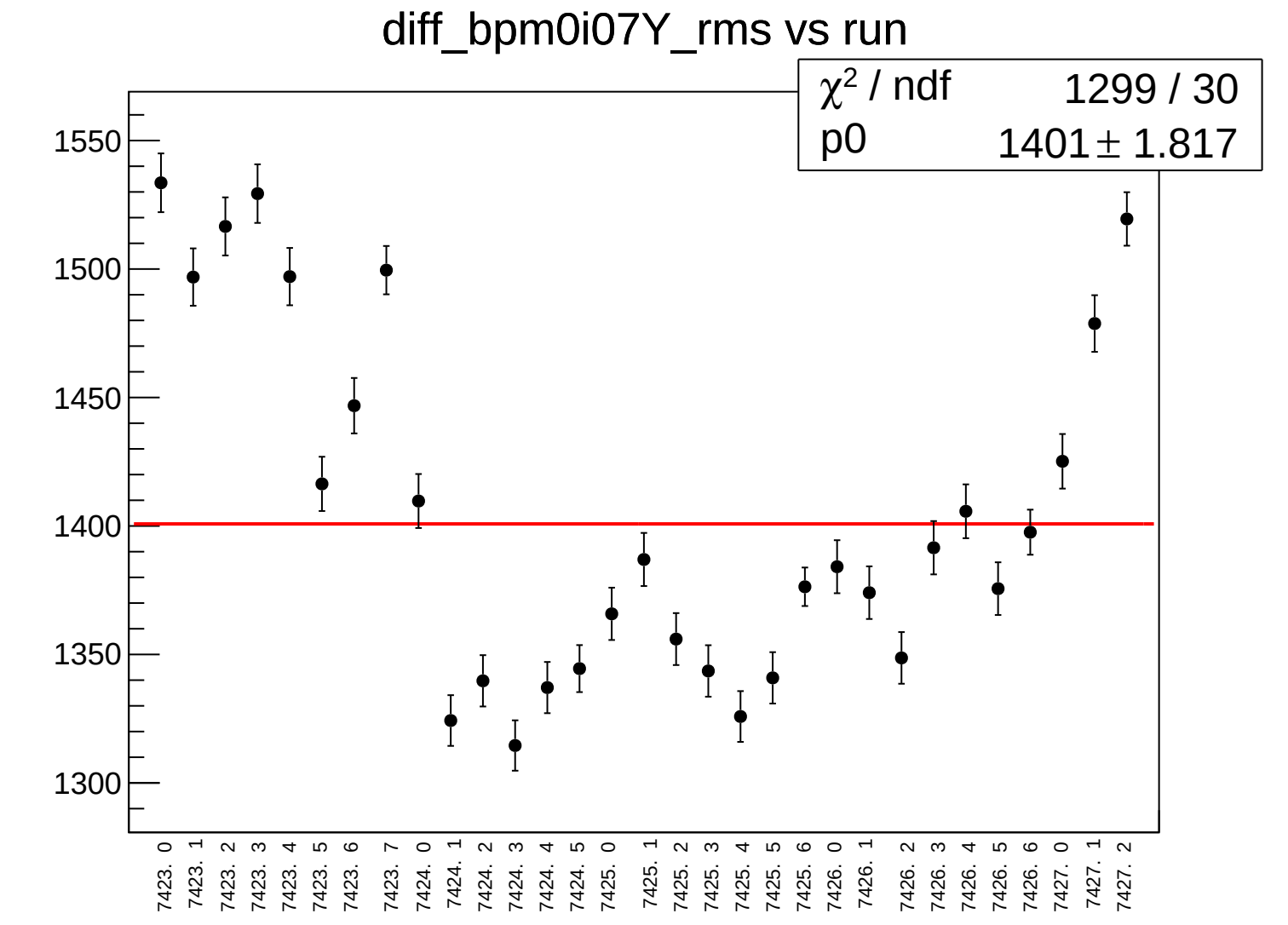

diff_bpm0i07X_mean vs run
χ² / ndf 23.23 / 30
p0 29.5 ± 3.598
100
80
60
40
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −771.3
Std Dev 0
2
1
0
−1
−2

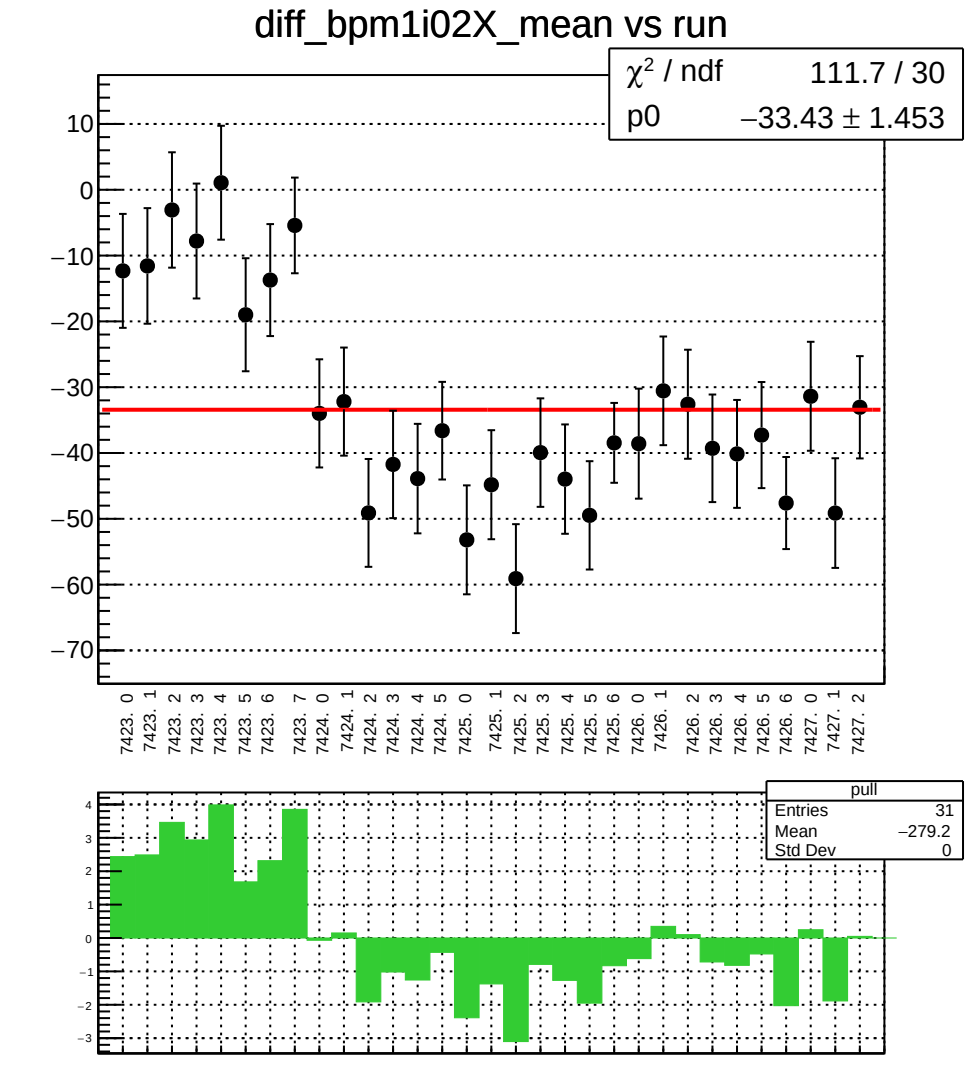

pull1D
Entries 31
Mean −0.002876
Std Dev 0.8656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

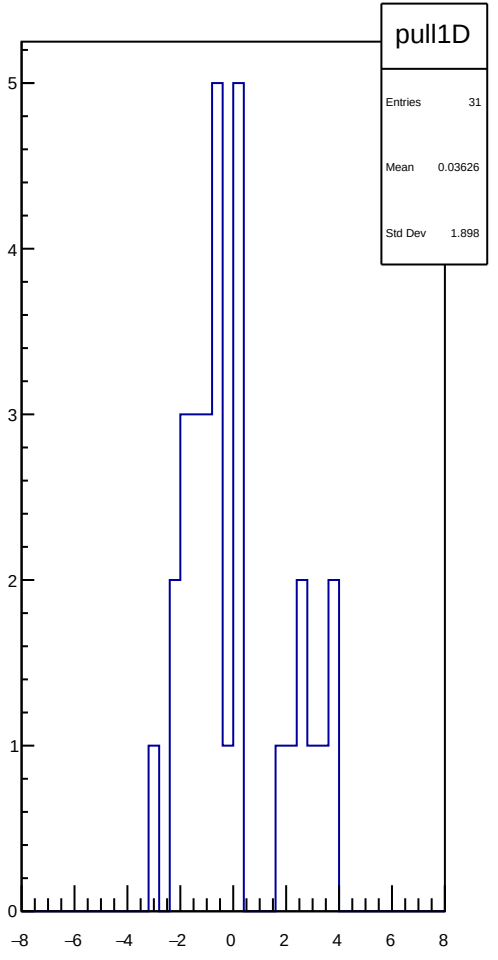

diff_bpm0i07X_rms vs run
χ² / ndf 4607 / 30
p0 1956 ± 2.544
2400
2300
2200
2100
2000
1900
1800
1700
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

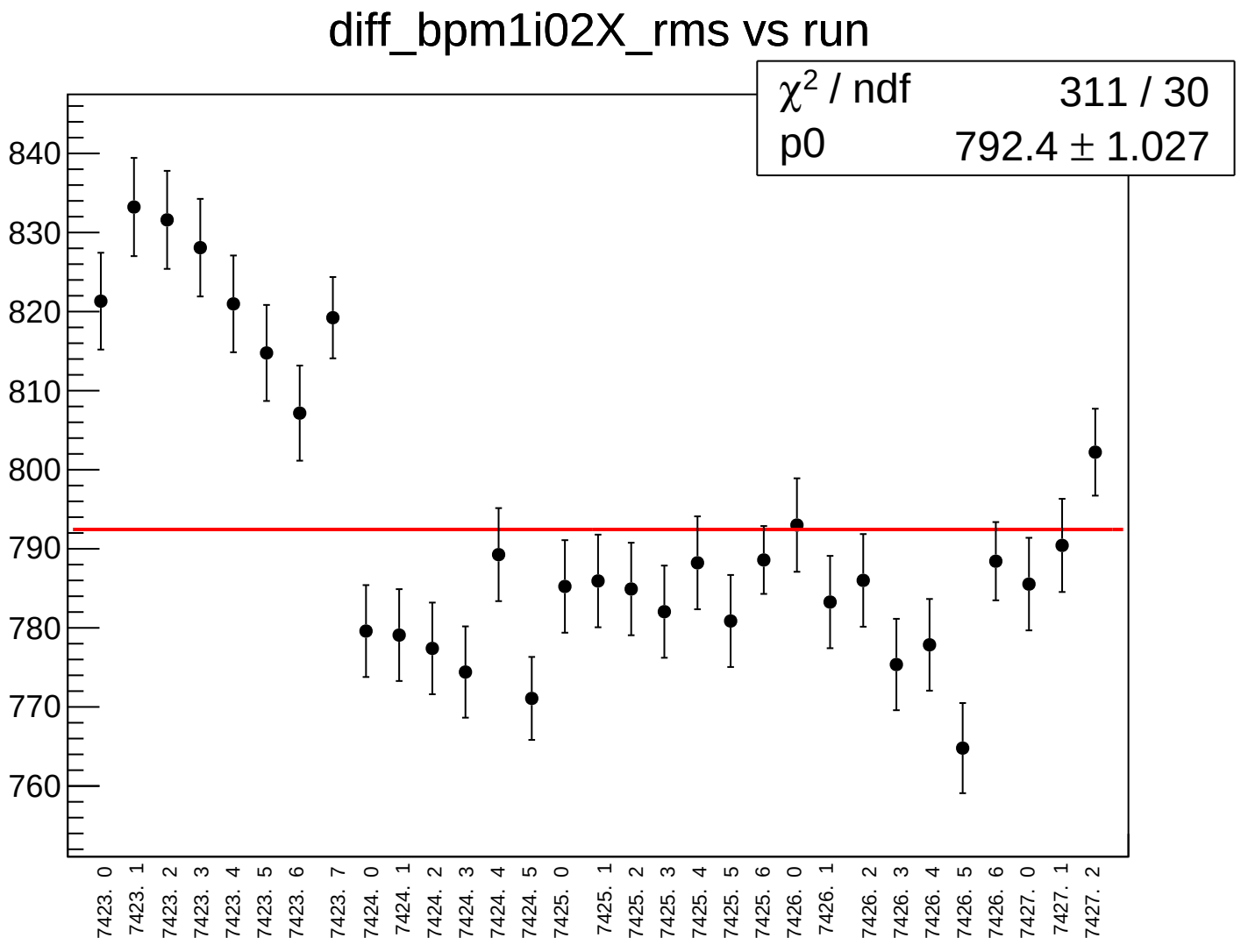

diff_bpm0i07Y_mean vs run
χ² / ndf 36.31 / 30
p0 −2.238 ± 2.57
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −56.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

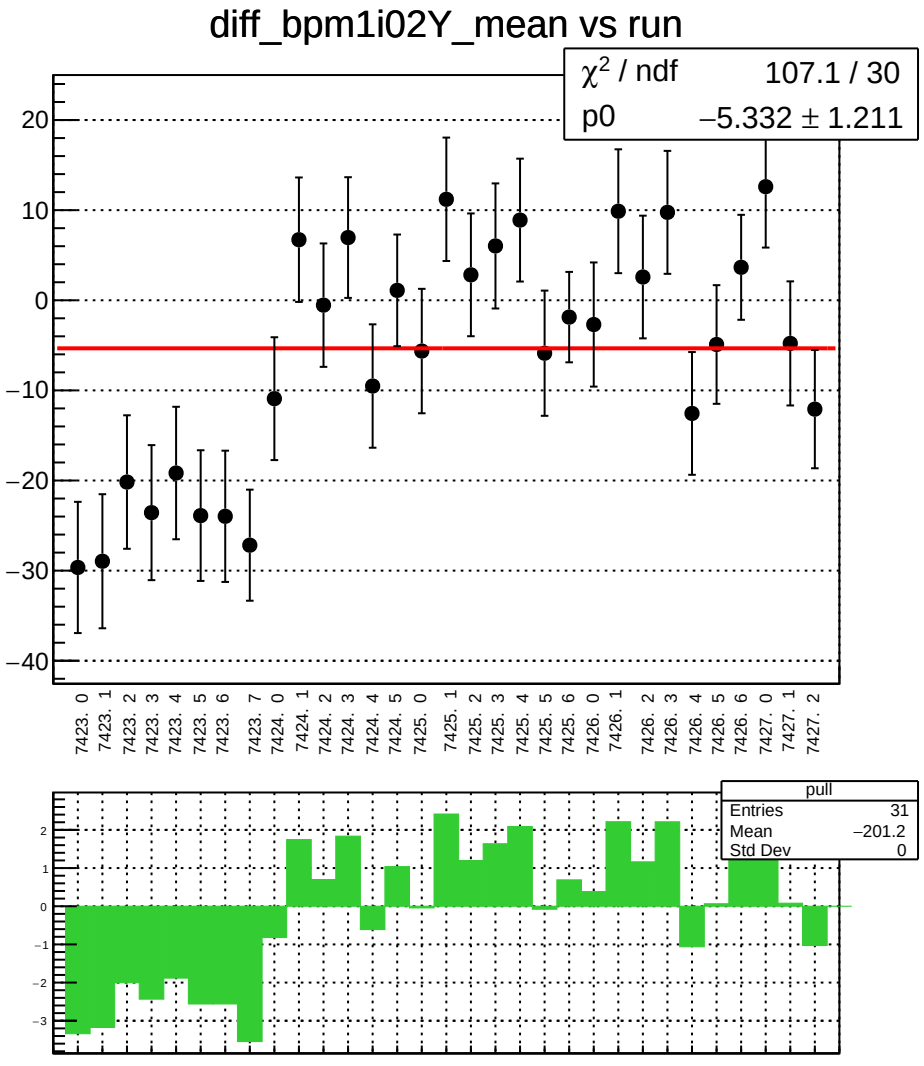

pull1D
Entries 31
Mean 0.02989
Std Dev 1.082
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

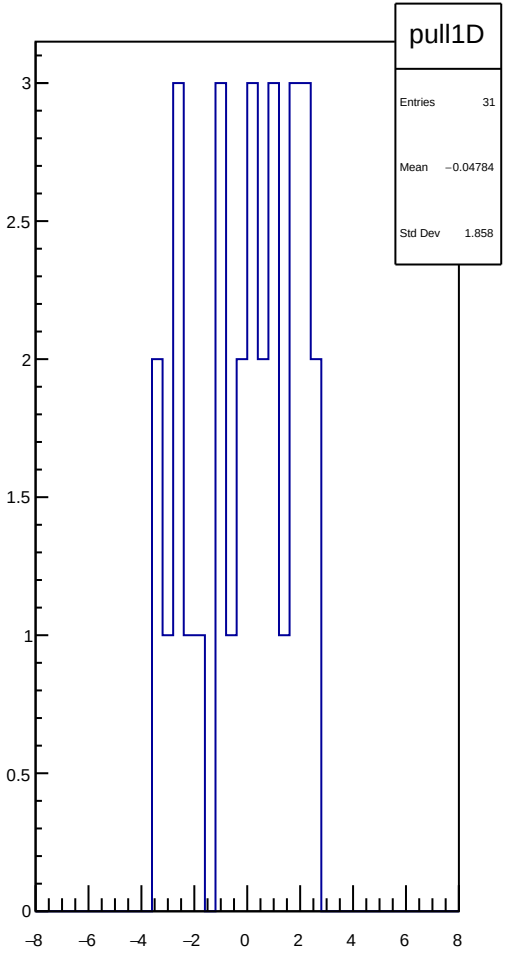

diff_bpm0i07Y_rms vs run
χ² / ndf 1299 / 30
p0 1401 ± 1.817
1550
1500
1450
1400
1350
1300
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

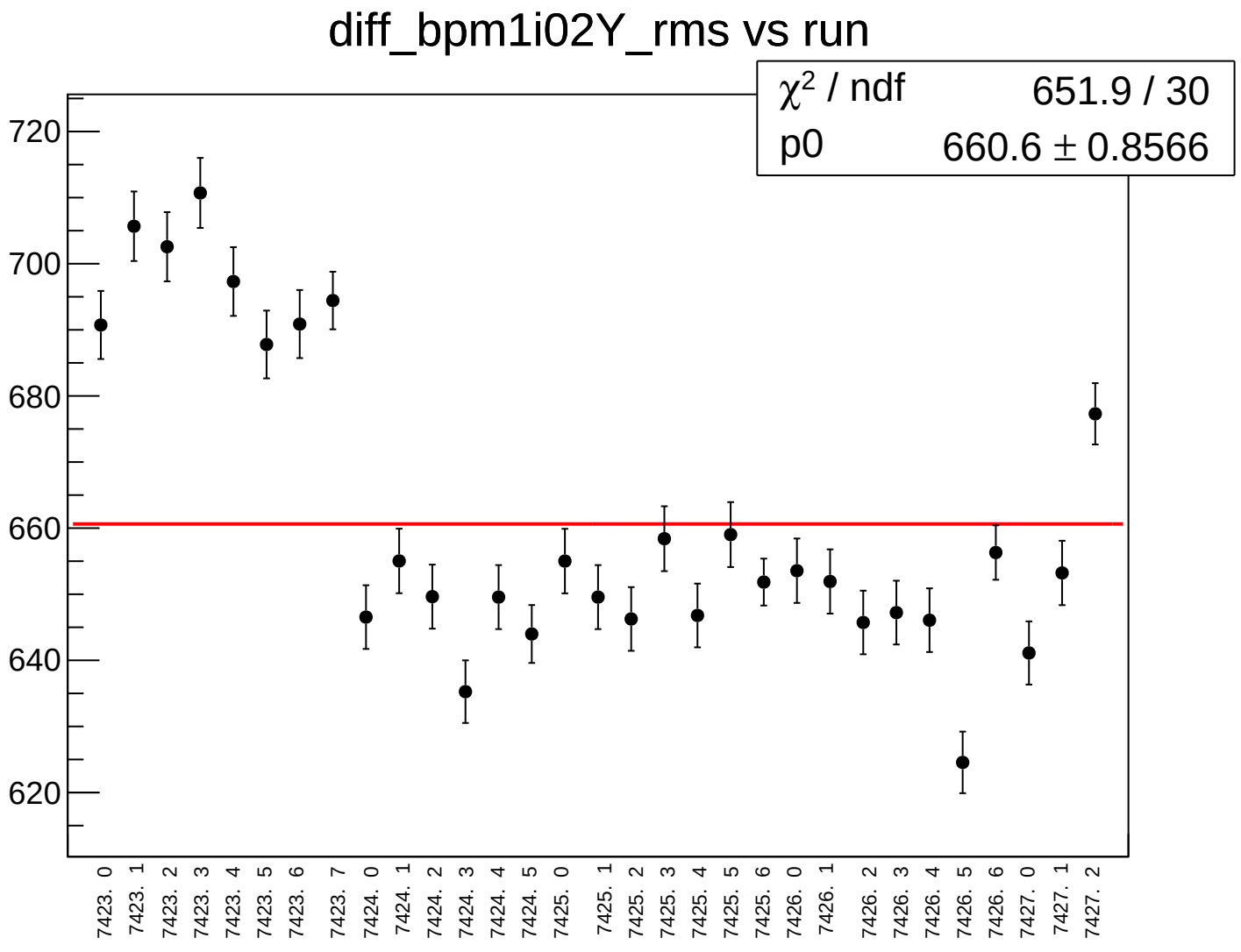

diff_bpm1i02X_mean vs run
χ² / ndf 111.7 / 30
p0 −33.43 ± 1.453
10
0
−10
−20
−30
−40
−50
−60
−70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −279.2
Std Dev 0

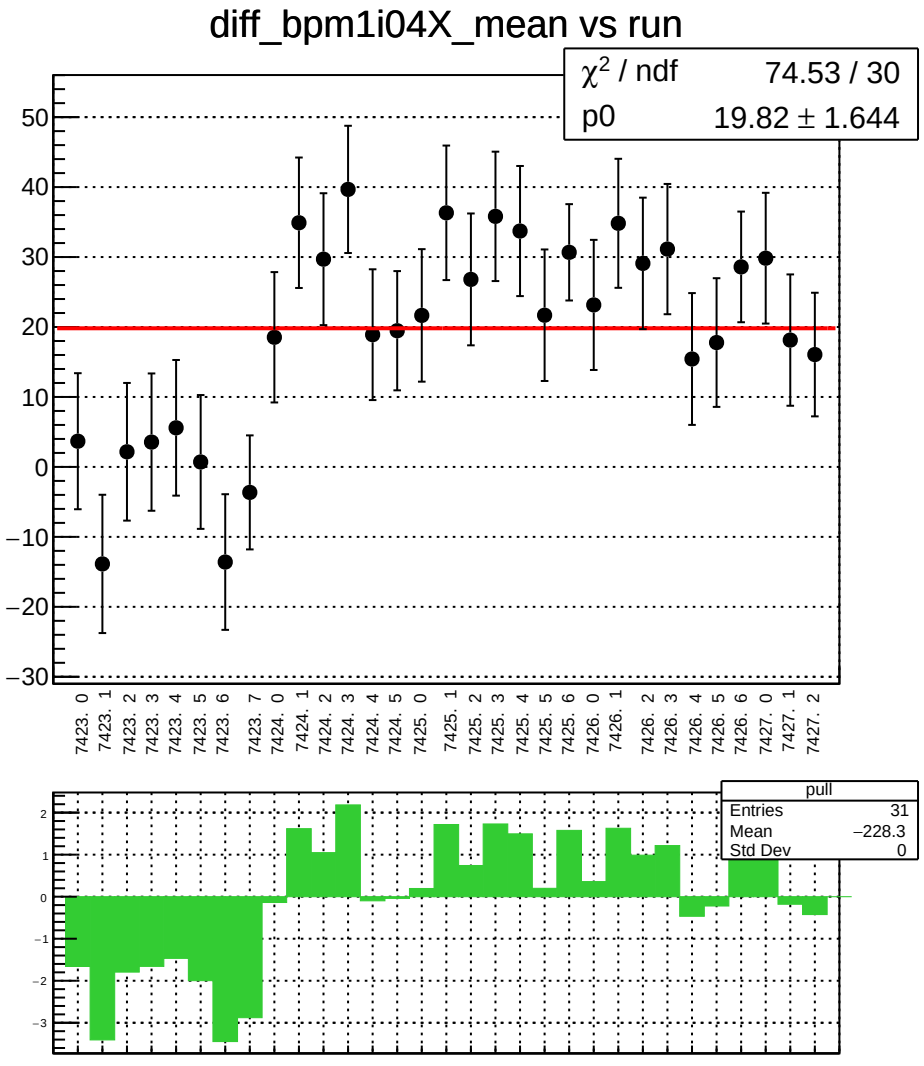

pull1D
Entries 31
Mean 0.03626
Std Dev 1.898
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

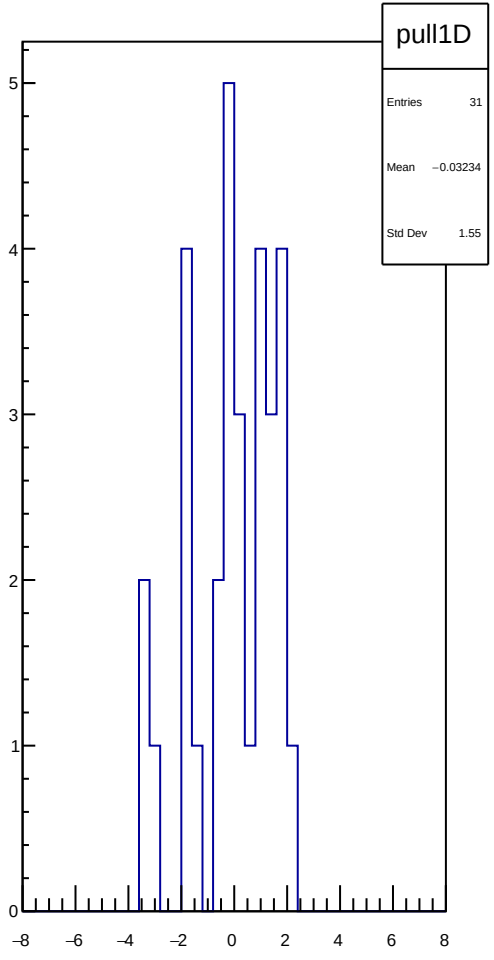

diff_bpm1i02X_rms vs run
χ² / ndf 311 / 30
p0 792.4 ± 1.027
840
830
820
810
800
790
780
770
760
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

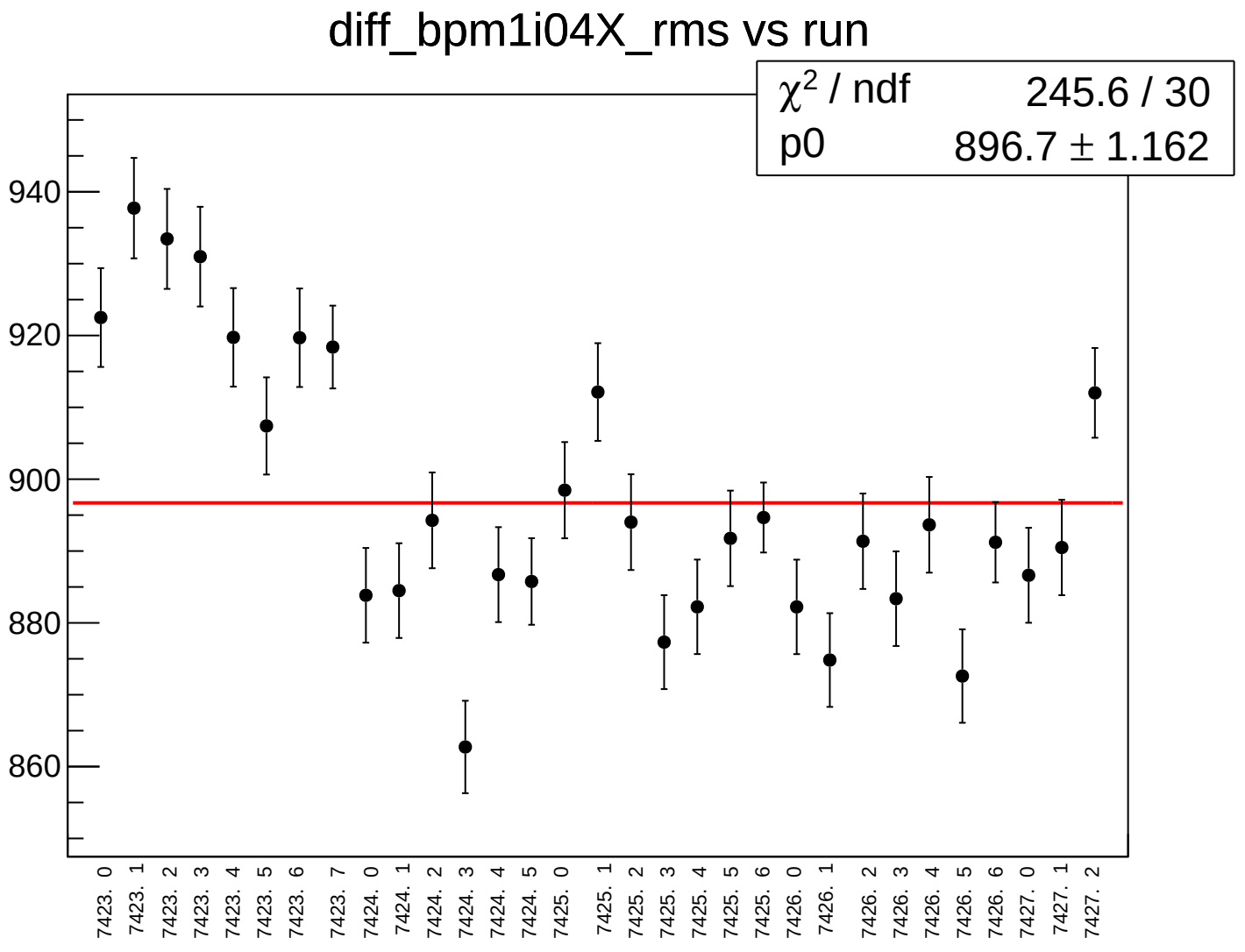

diff_bpm1i02Y_mean vs run
χ² / ndf 107.1 / 30
p0 −5.332 ± 1.211
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −201.2
Std Dev 0
2
1
0
−1
−2
−3

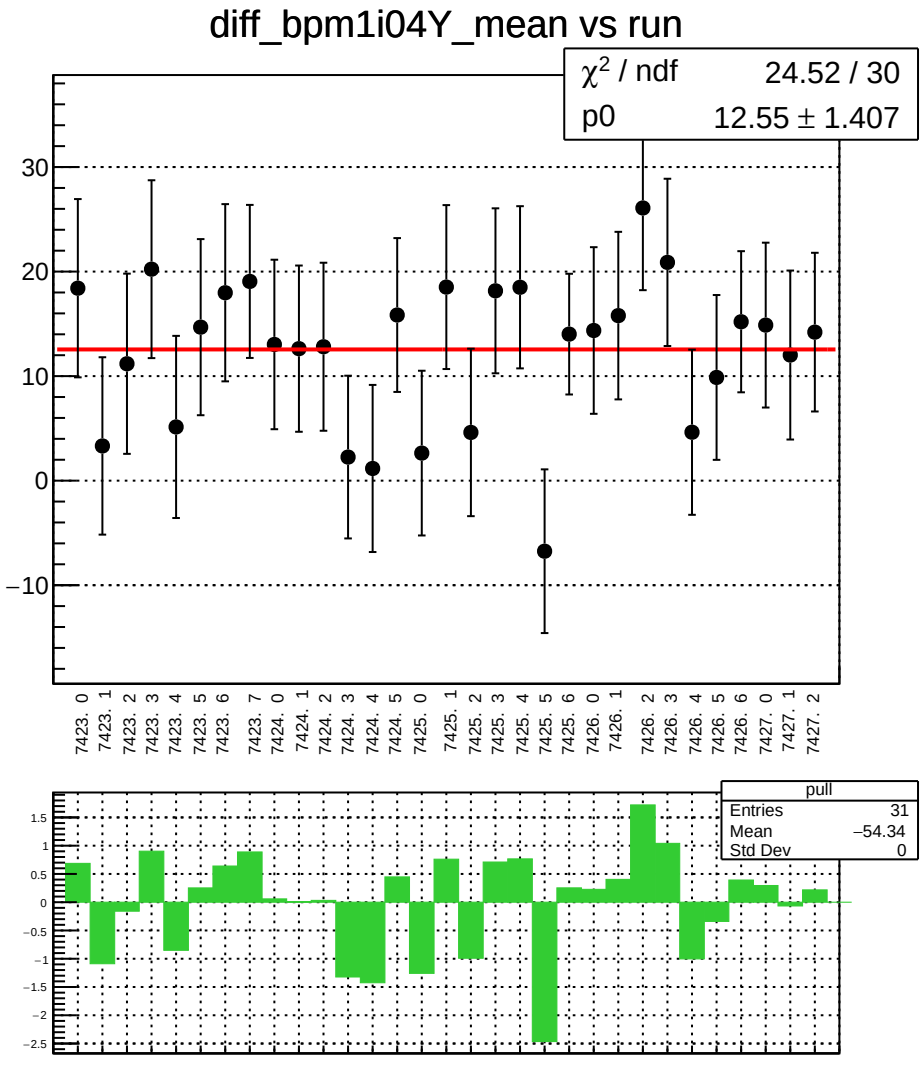

pull1D
Entries 31
Mean −0.04784
Std Dev 1.858
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

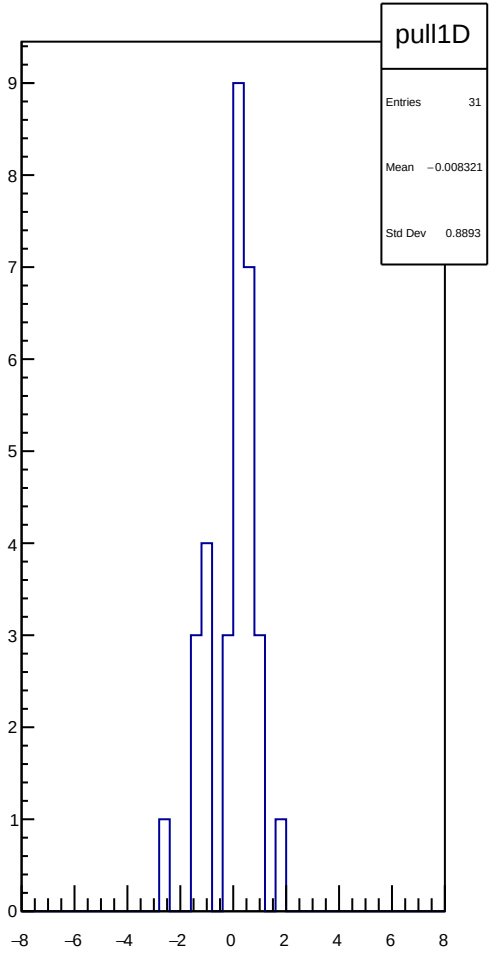

diff_bpm1i02Y_rms vs run
χ² / ndf 651.9 / 30
p0 660.6 ± 0.8566
720
700
680
660
640
620
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

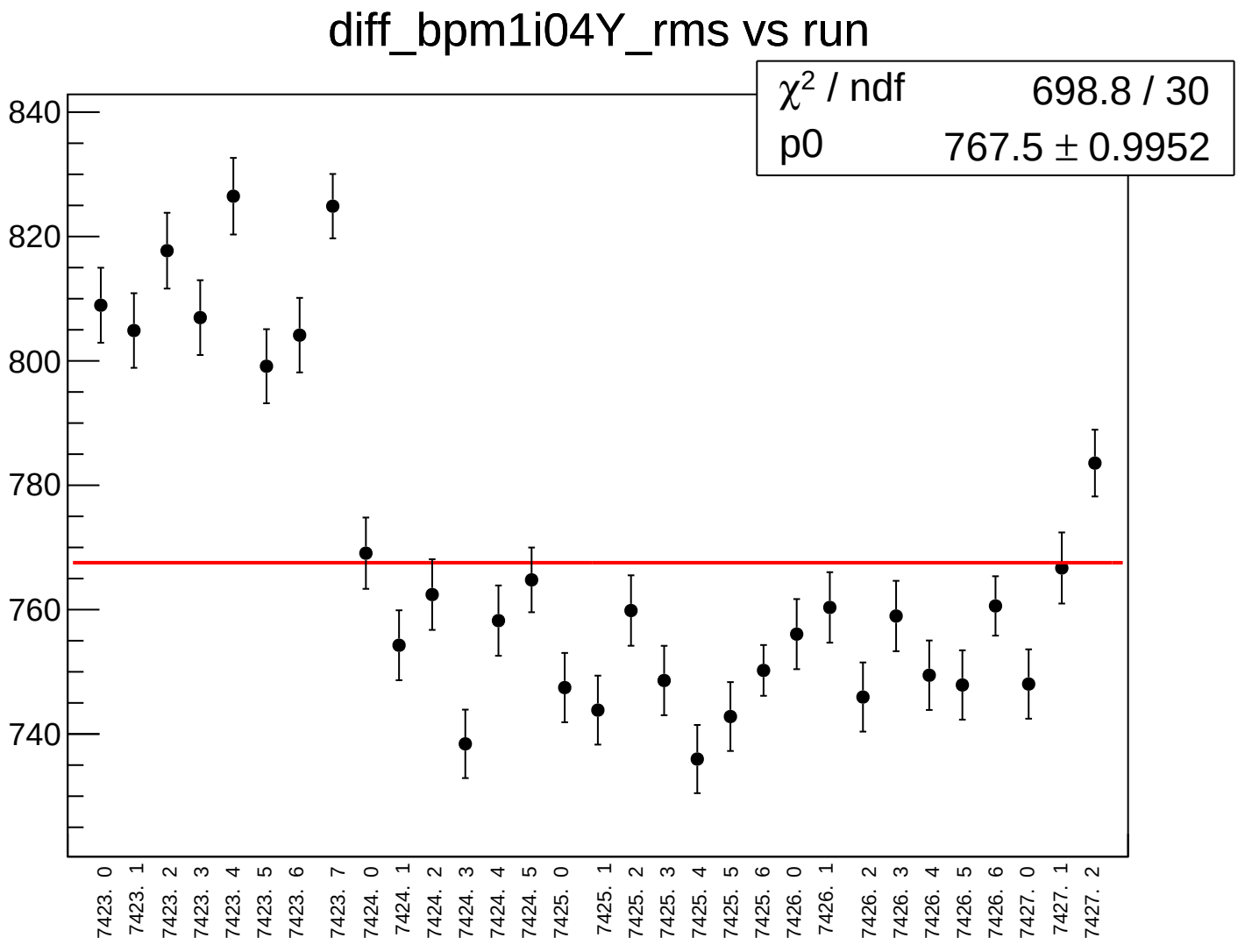

diff_bpm1i04X_mean vs run
χ² / ndf 74.53 / 30
p0 19.82 ± 1.644
50
40
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −228.3
Std Dev 0
2
1
0
−1
−2
−3

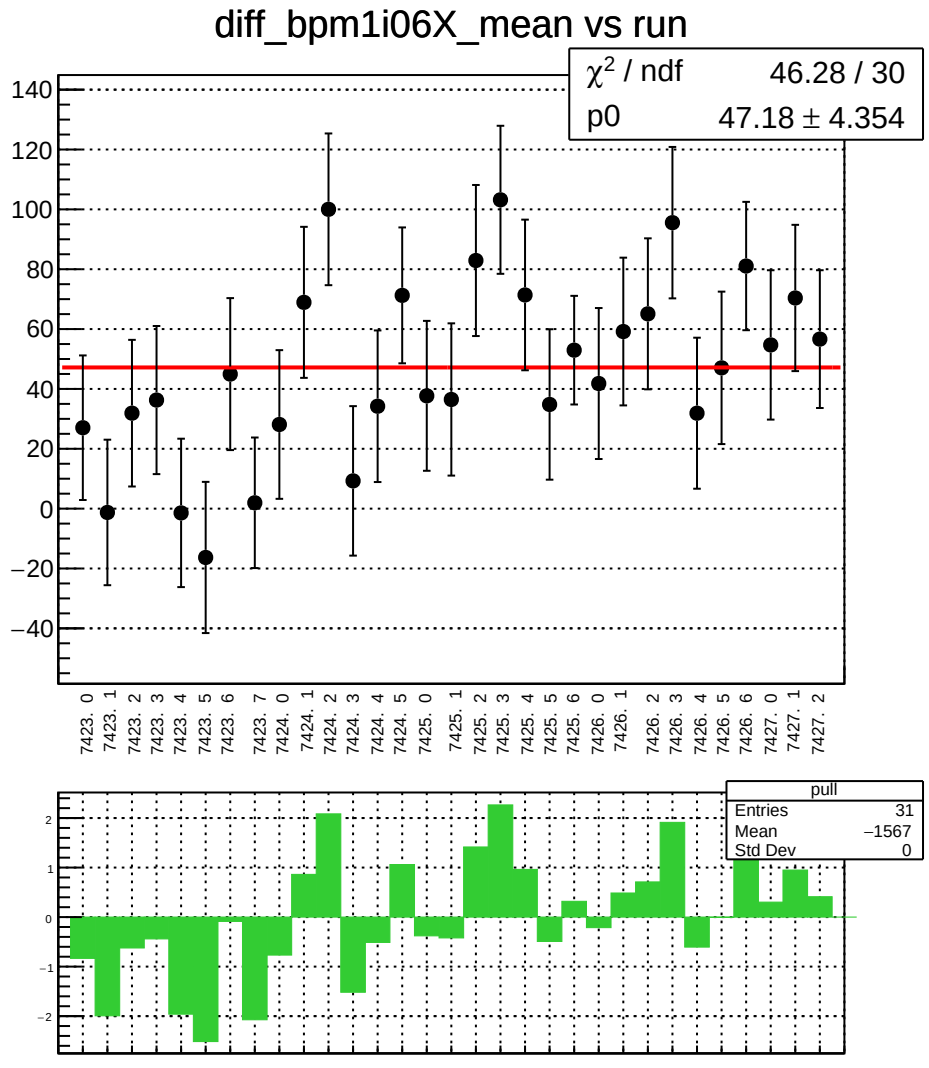

pull1D
Entries 31
Mean −0.03234
Std Dev 1.55
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

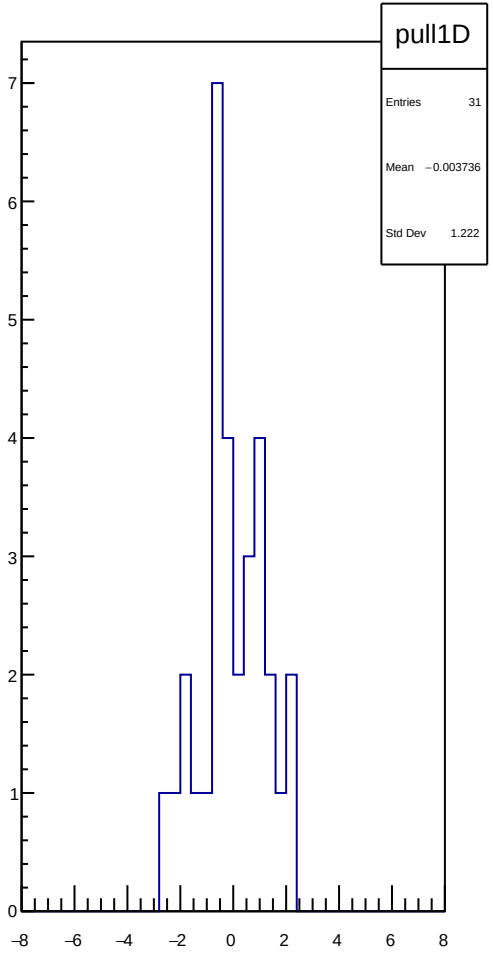

diff_bpm1i04X_rms vs run
χ² / ndf 245.6 / 30
p0 896.7 ± 1.162
940
920
900
880
860
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

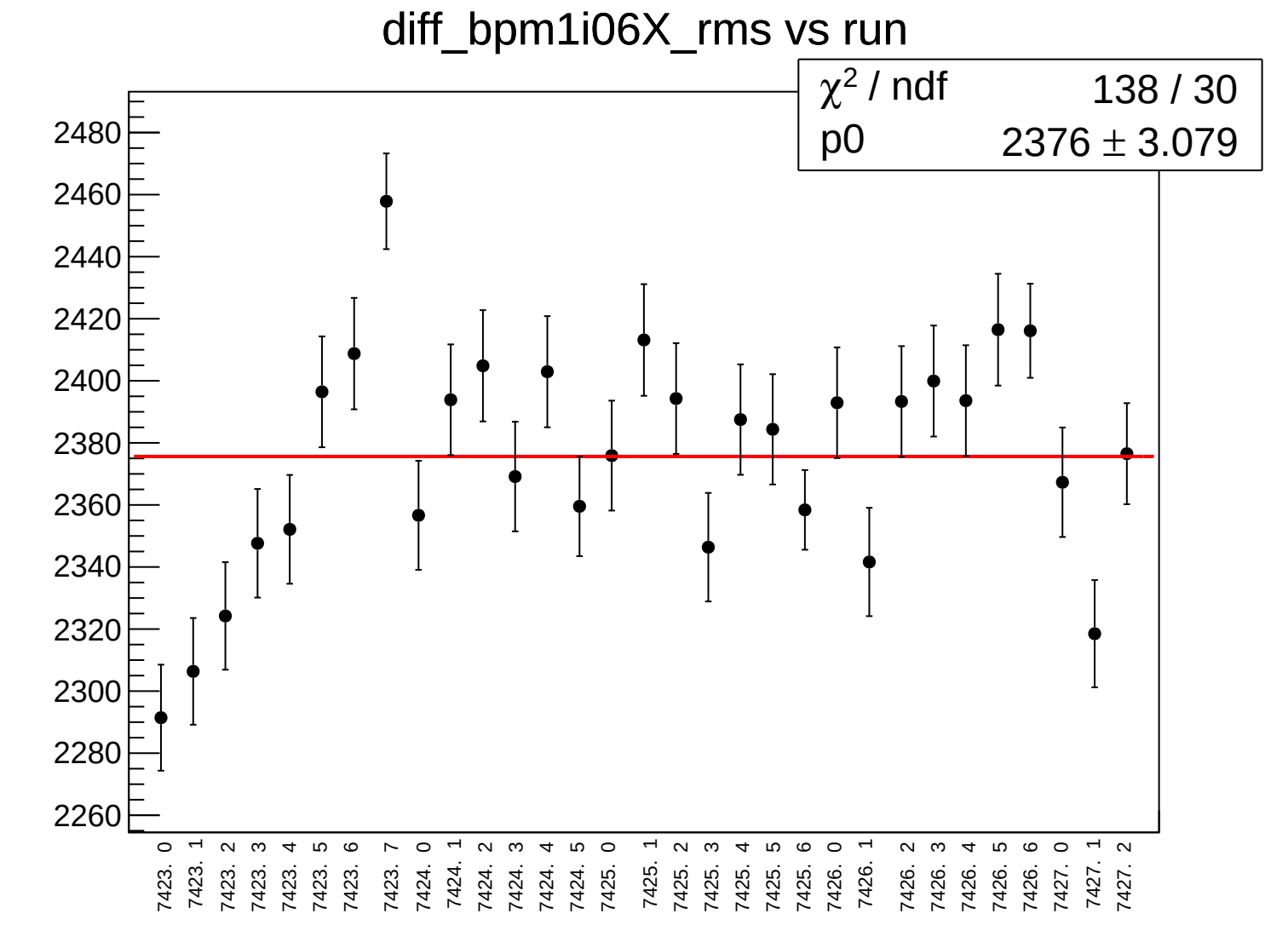

diff_bpm1i04Y_mean vs run
χ² / ndf 24.52 / 30
p0 12.55 ± 1.407
30
20
10
0
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −54.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

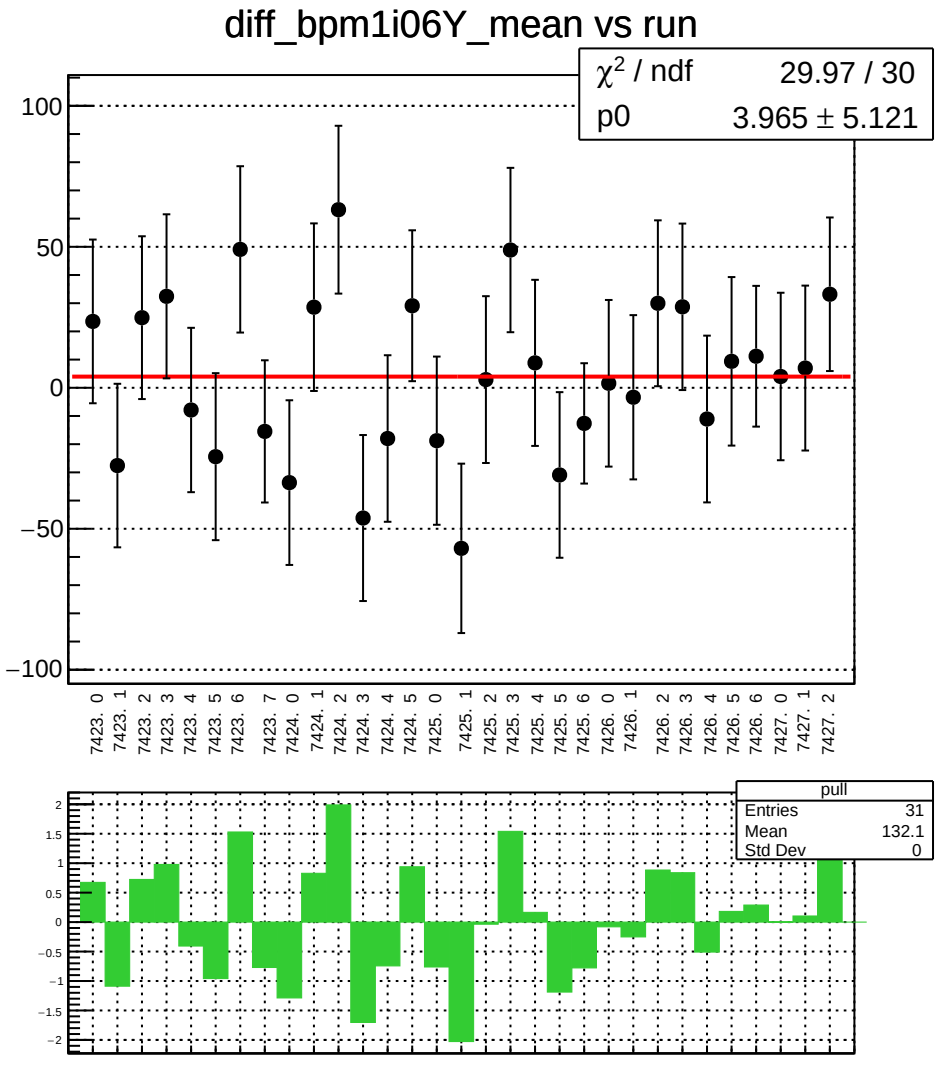

pull1D
Entries 31
Mean −0.008321
Std Dev 0.8893
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

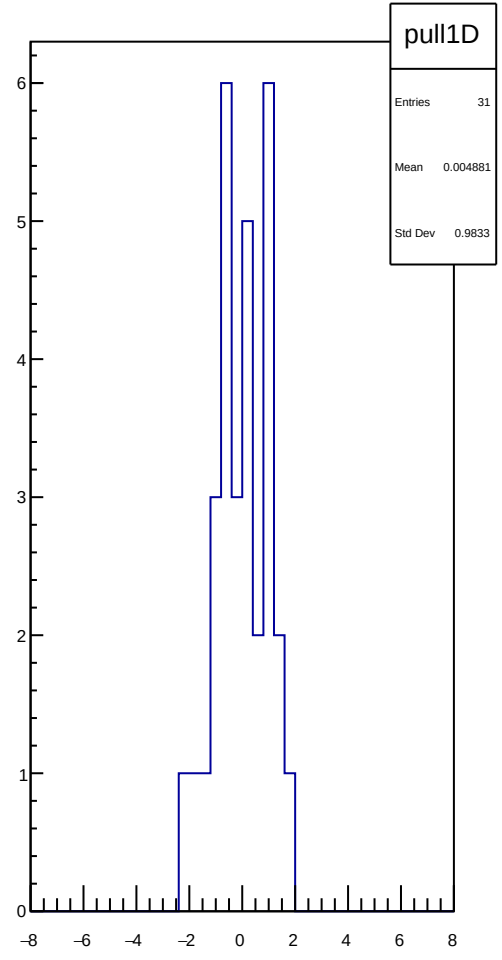

diff_bpm1i04Y_rms vs run
χ² / ndf 698.8 / 30
p0 767.5 ± 0.9952
840
820
800
780
760
740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

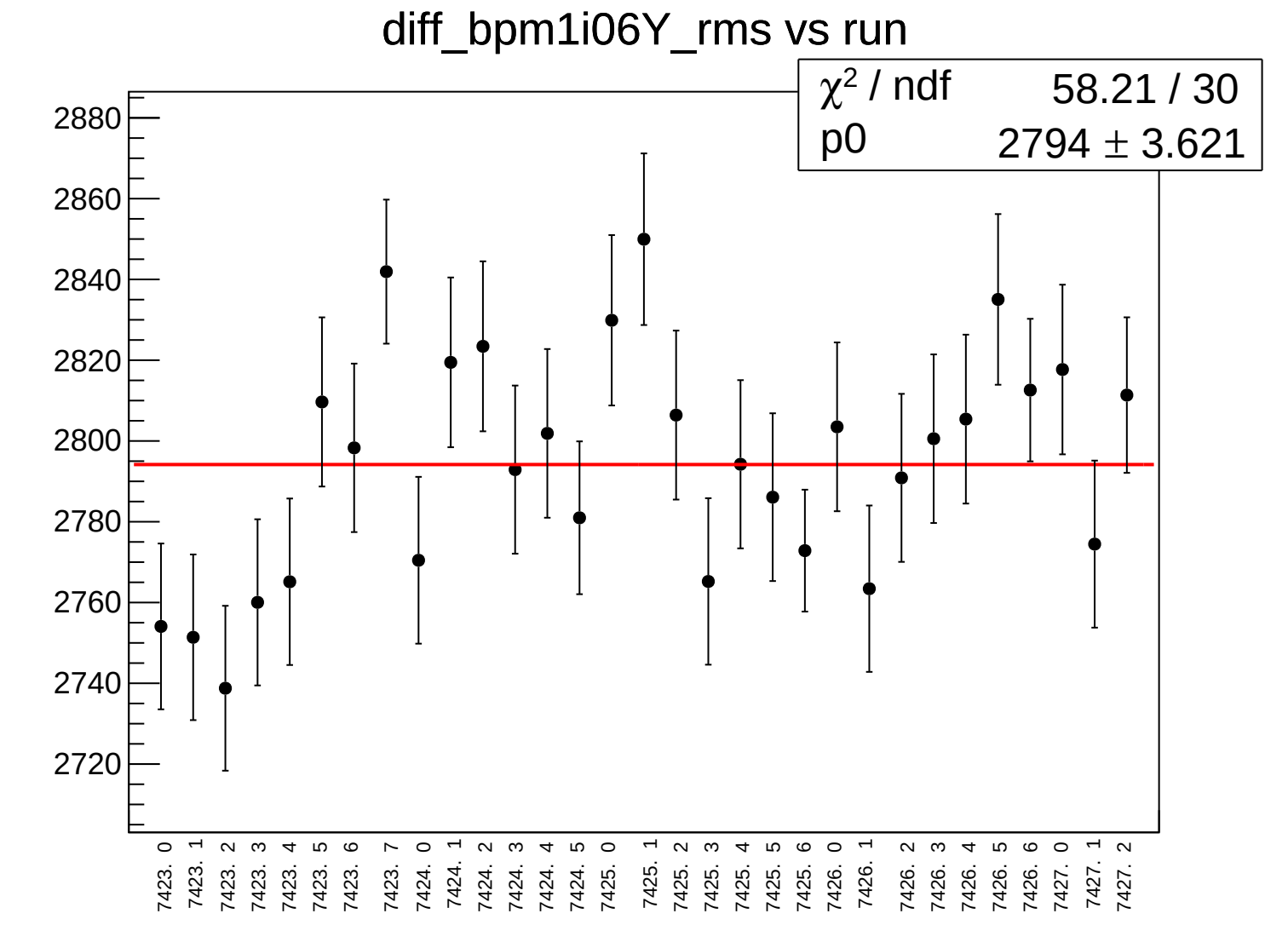

diff_bpm1i06X_mean vs run
χ² / ndf 46.28 / 30
p0 47.18 ± 4.354
140
120
100
80
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1567
Std Dev 0
2
1
0
−1
−2

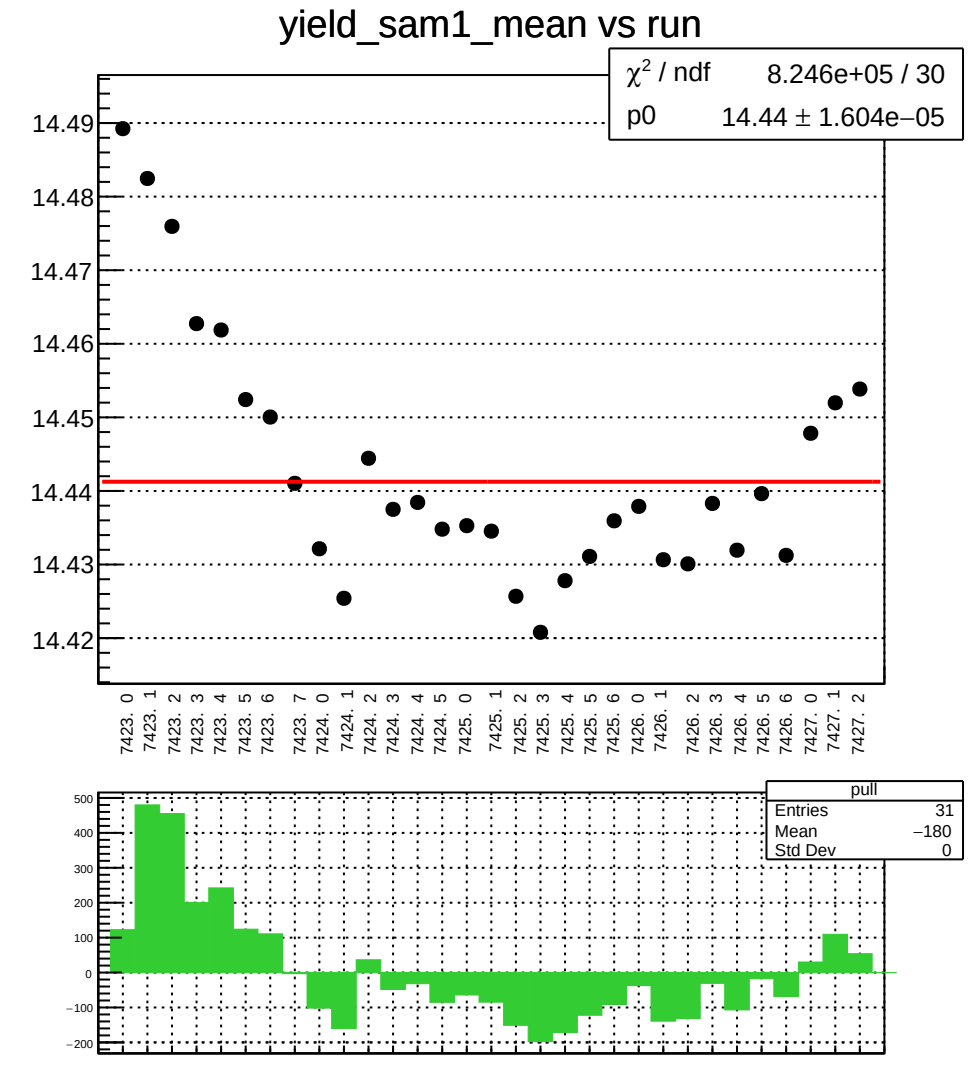

pull1D
Entries 31
Mean −0.003736
Std Dev 1.222
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

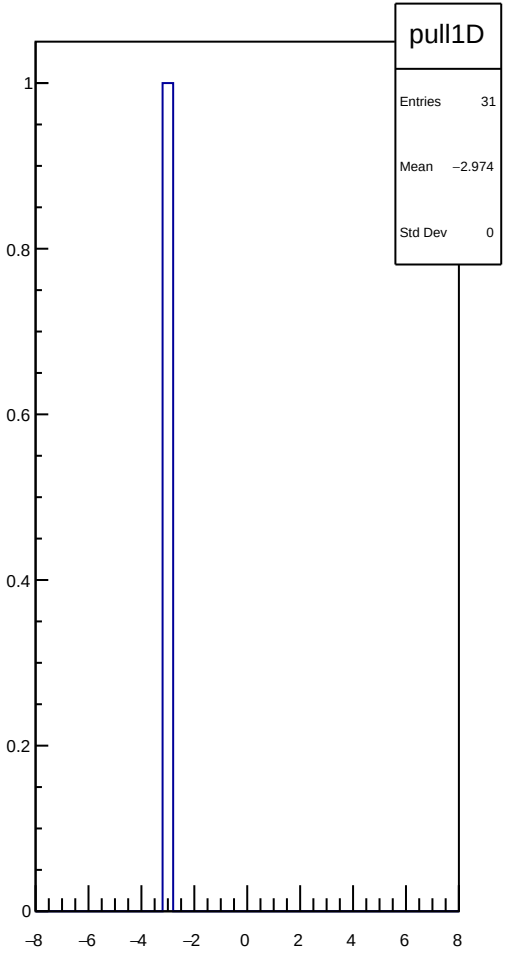

diff_bpm1i06X_rms vs run
χ² / ndf 138 / 30
p0 2376 ± 3.079
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

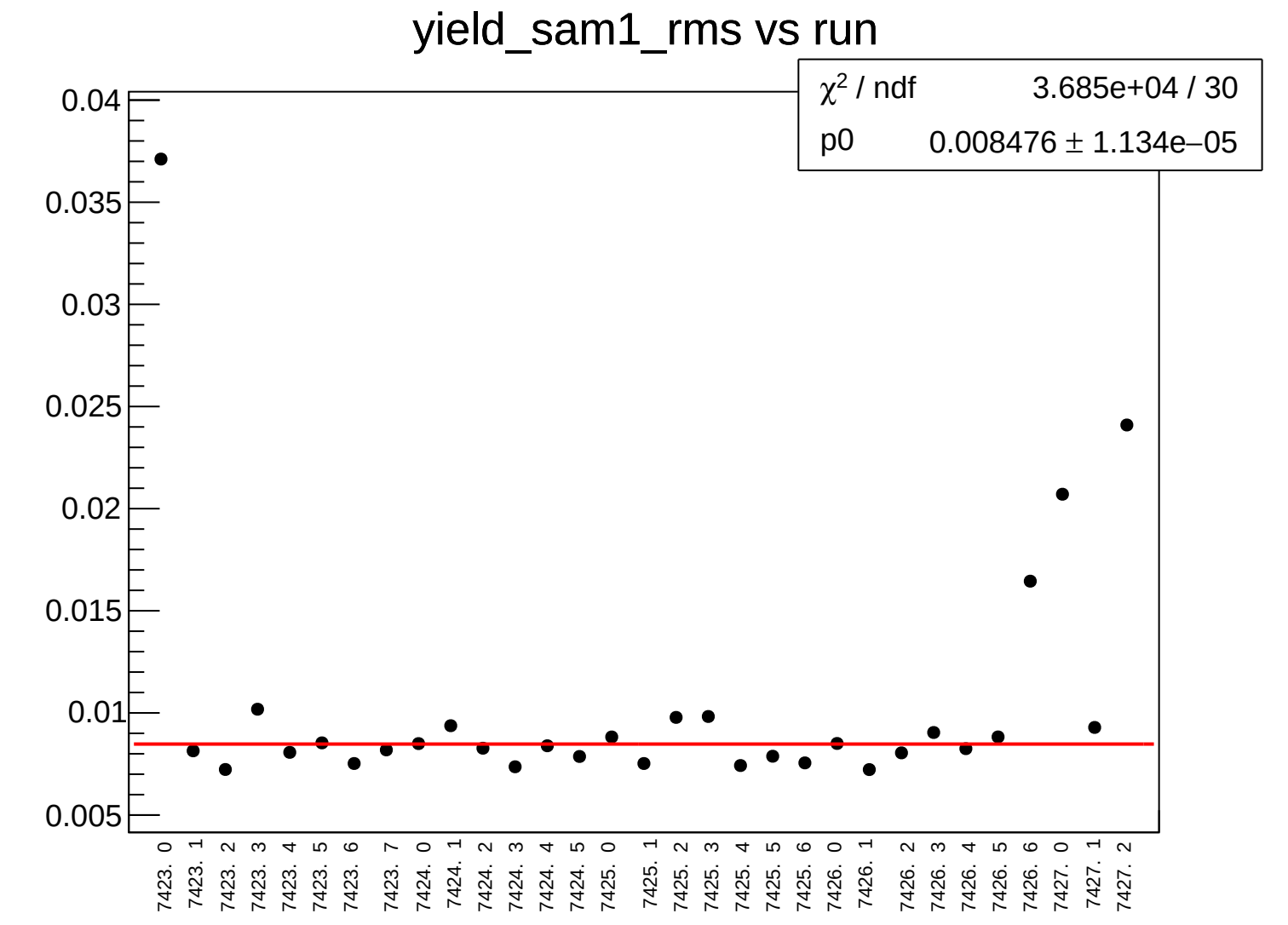

diff_bpm1i06Y_mean vs run
χ² / ndf 29.97 / 30
p0 3.965 ± 5.121
100
50
0
−50
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 132.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

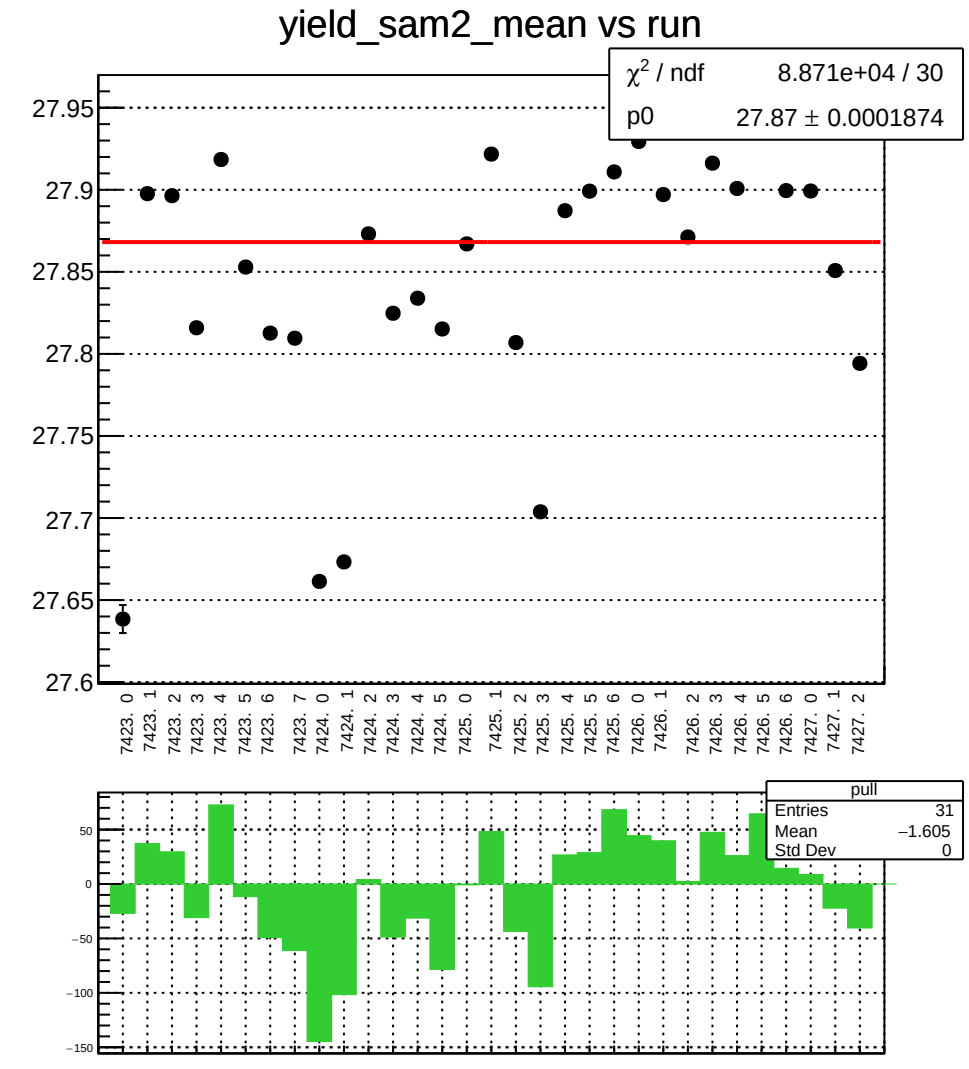

pull1D
Entries 31
Mean 0.004881
Std Dev 0.9833
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

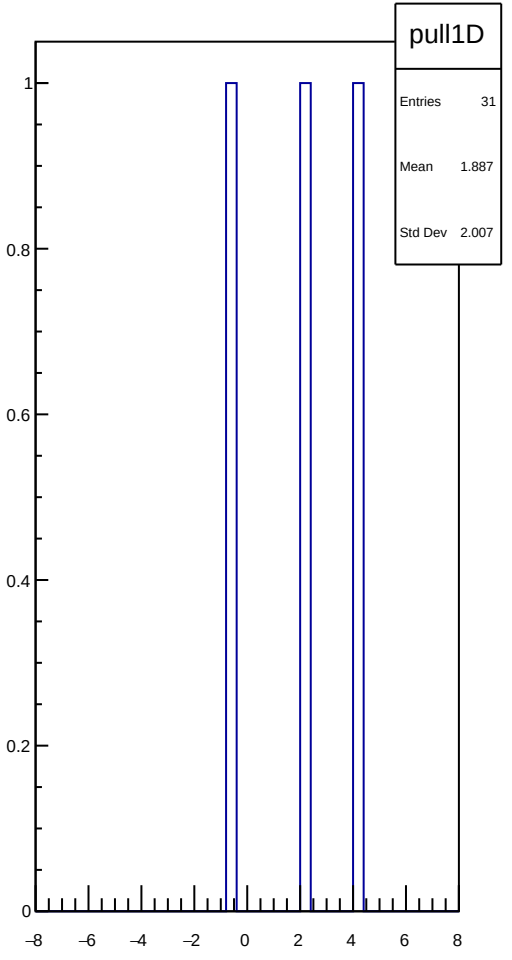

diff_bpm1i06Y_rms vs run
χ² / ndf 58.21 / 30
p0 2794 ± 3.621
2880
2860
2840
2820
2800
2780
2760
2740
2720
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

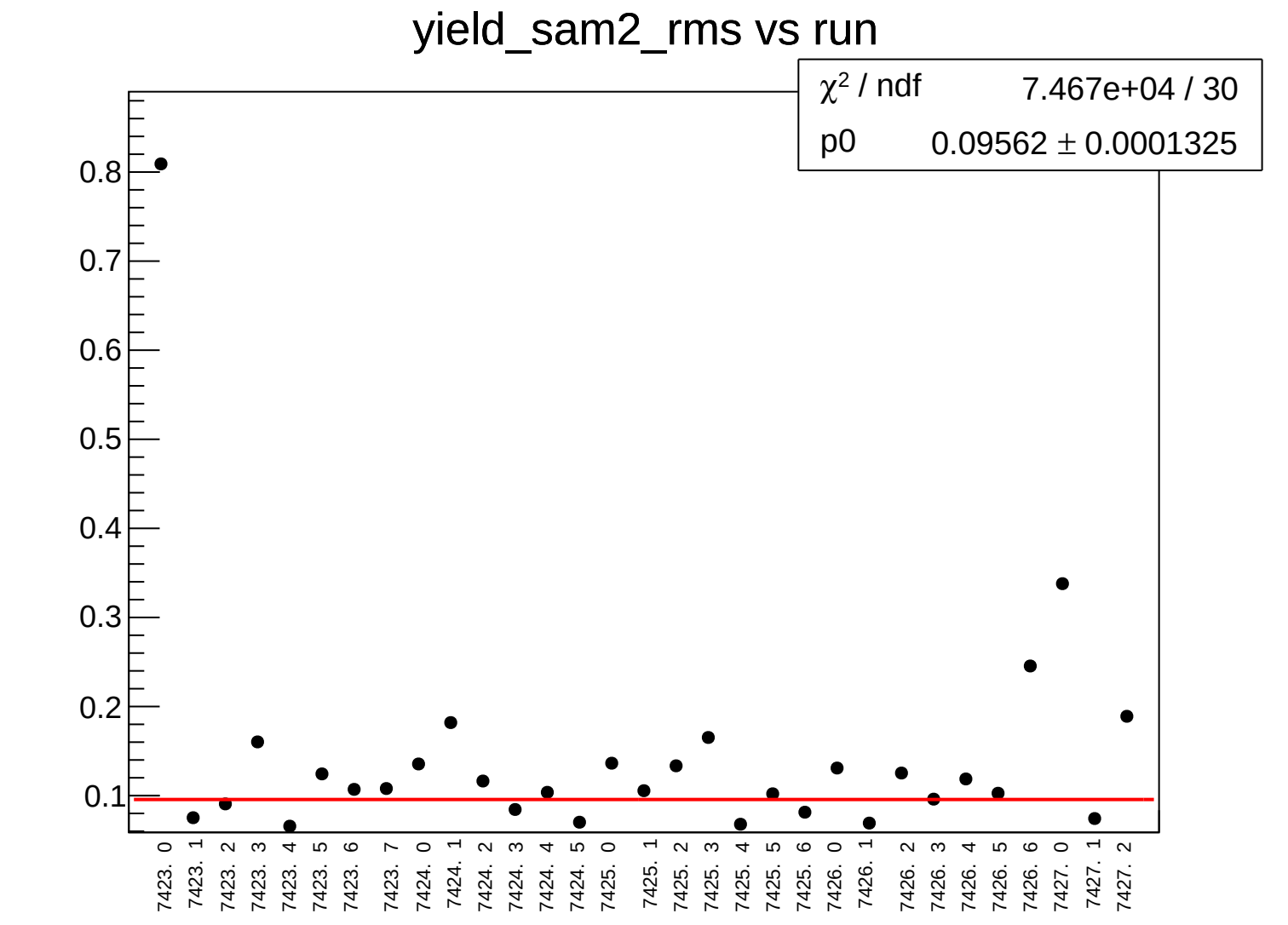

yield_sam1_mean vs run
χ² / ndf 8.246e+05 / 30
p0 14.44 ± 1.604e−05
14.49
14.48
14.47
14.46
14.45
14.44
14.43
14.42
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −180
Std Dev 0
500
400
300
200
100
0
−100
−200

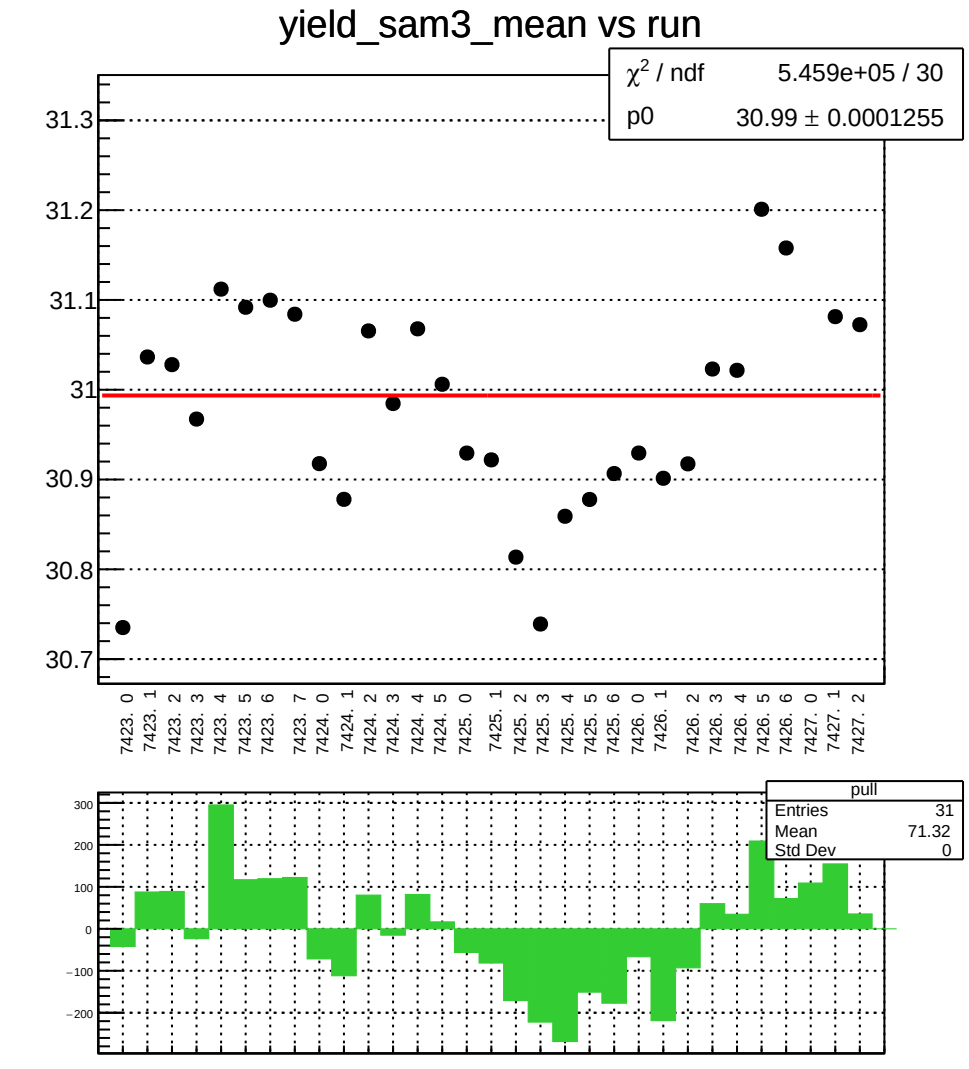

pull1D
Entries 31
Mean −2.974
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

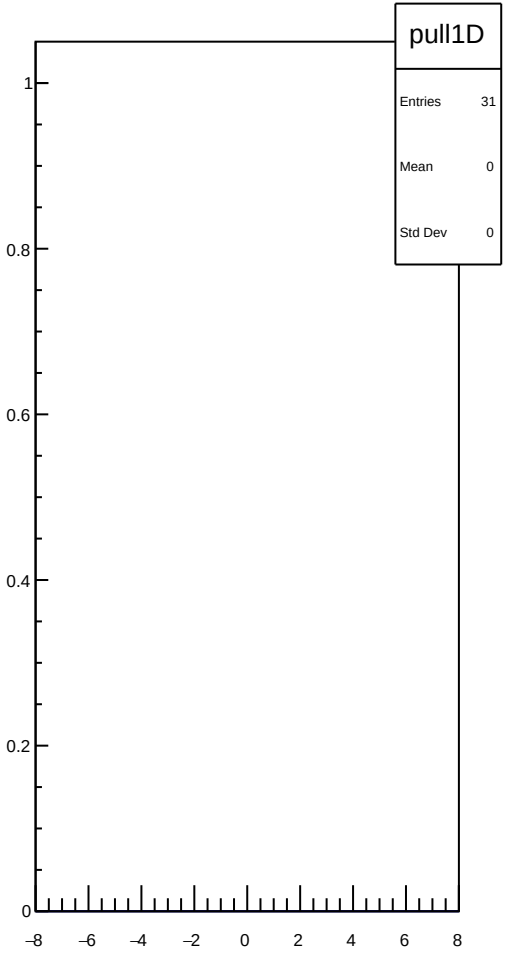

yield_sam1_rms vs run
χ² / ndf 3.685e+04 / 30
p0 0.008476 ± 1.134e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

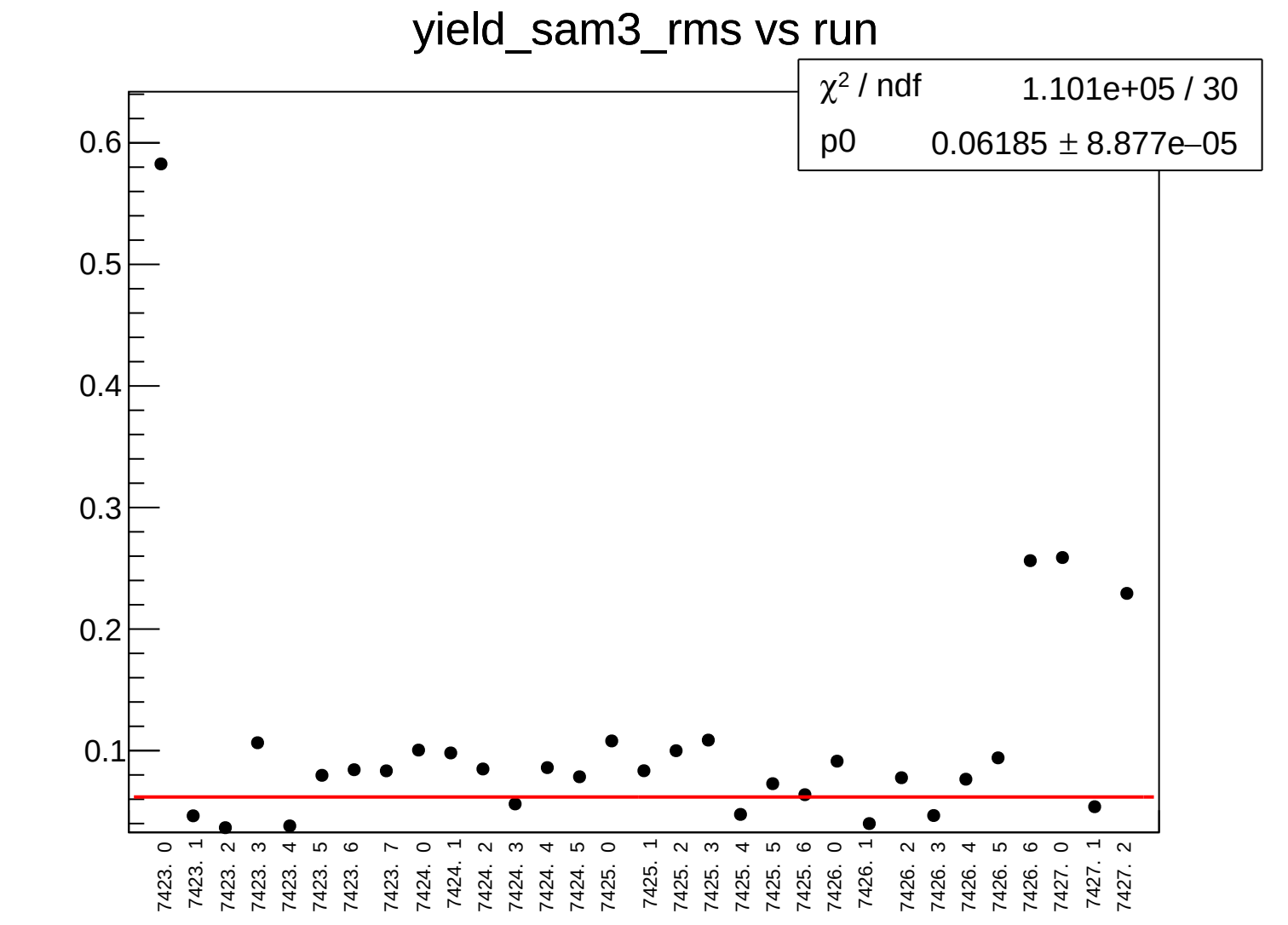

yield_sam2_mean vs run
χ² / ndf 8.871e+04 / 30
p0 27.87 ± 0.0001874
27.95
27.9
27.85
27.8
27.75
27.7
27.65
27.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1.605
Std Dev 0
50
0
−50
−100
−150

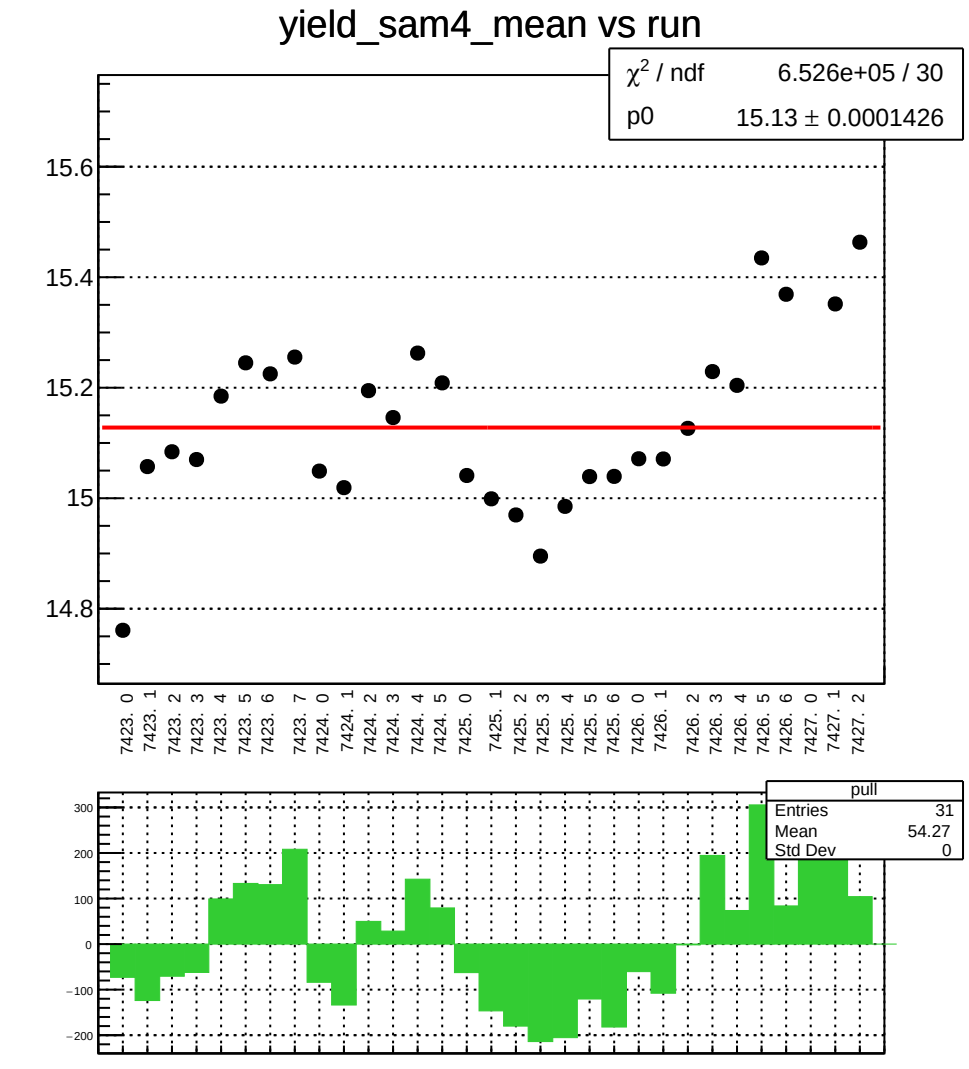

pull1D
Entries 31
Mean 1.887
Std Dev 2.007
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

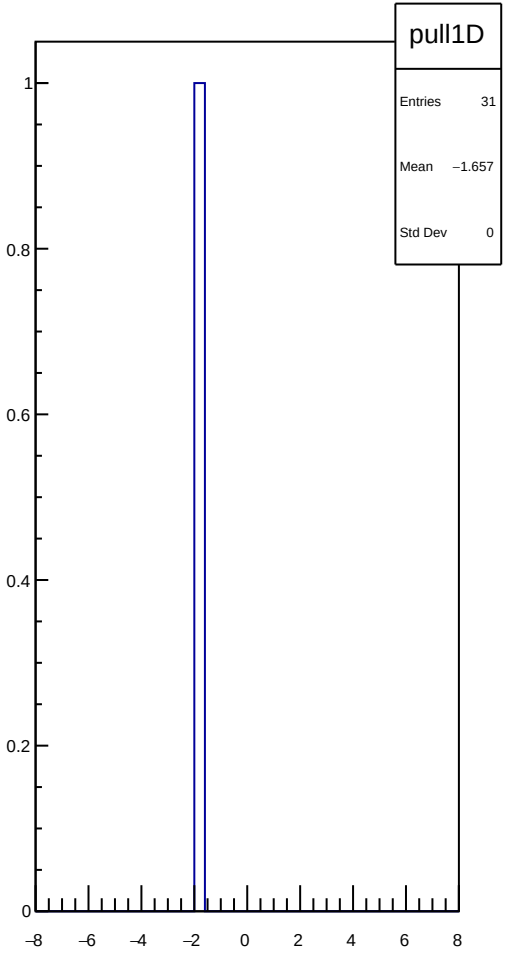

yield_sam2_rms vs run
χ² / ndf 7.467e+04 / 30
p0 0.09562 ± 0.0001325
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

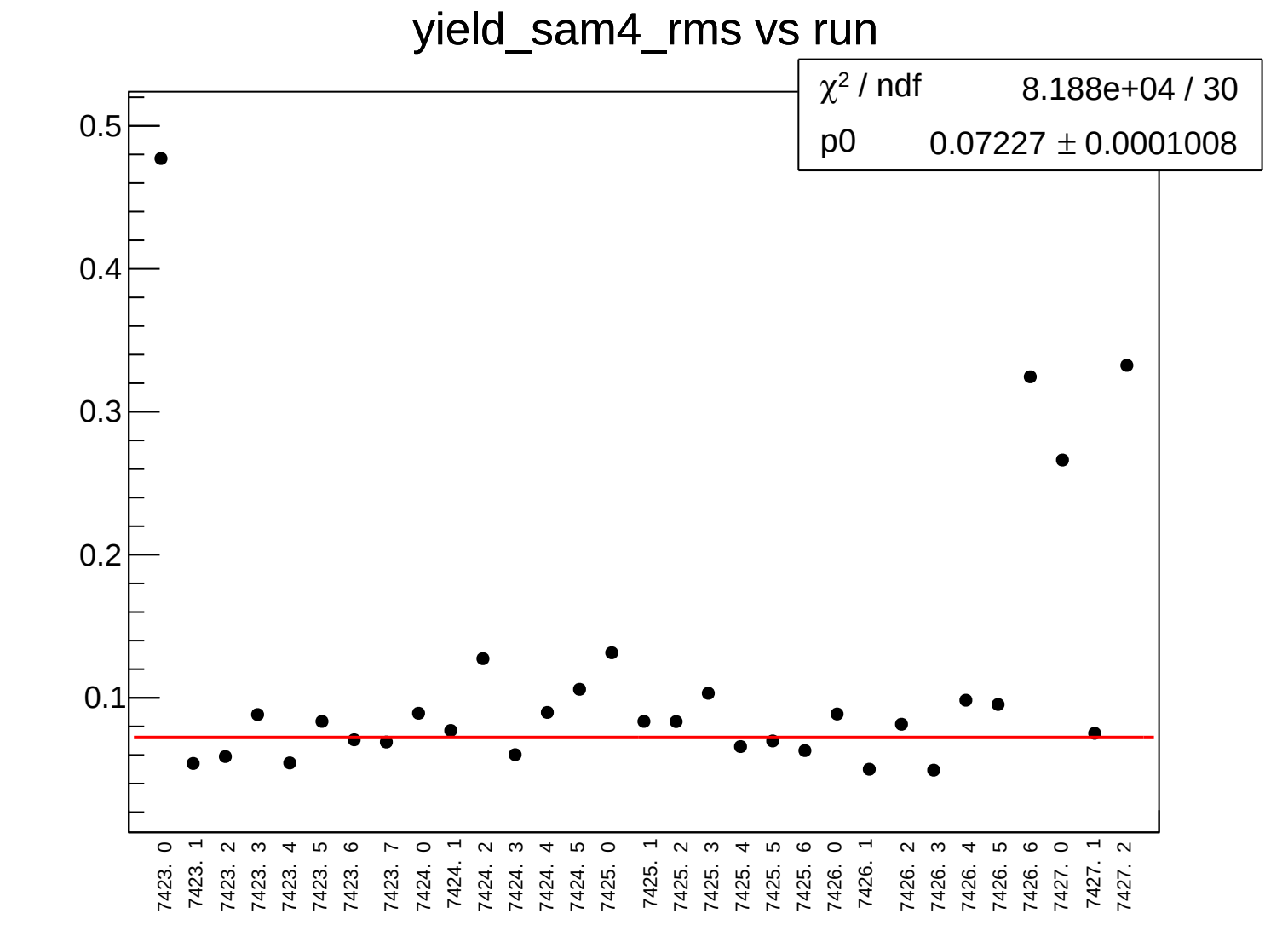

yield_sam3_mean vs run
χ² / ndf 5.459e+05 / 30
p0 30.99 ± 0.0001255
31.3
31.2
31.1
31
30.9
30.8
30.7
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 71.32
Std Dev 0
300
200
100
0
−100
−200

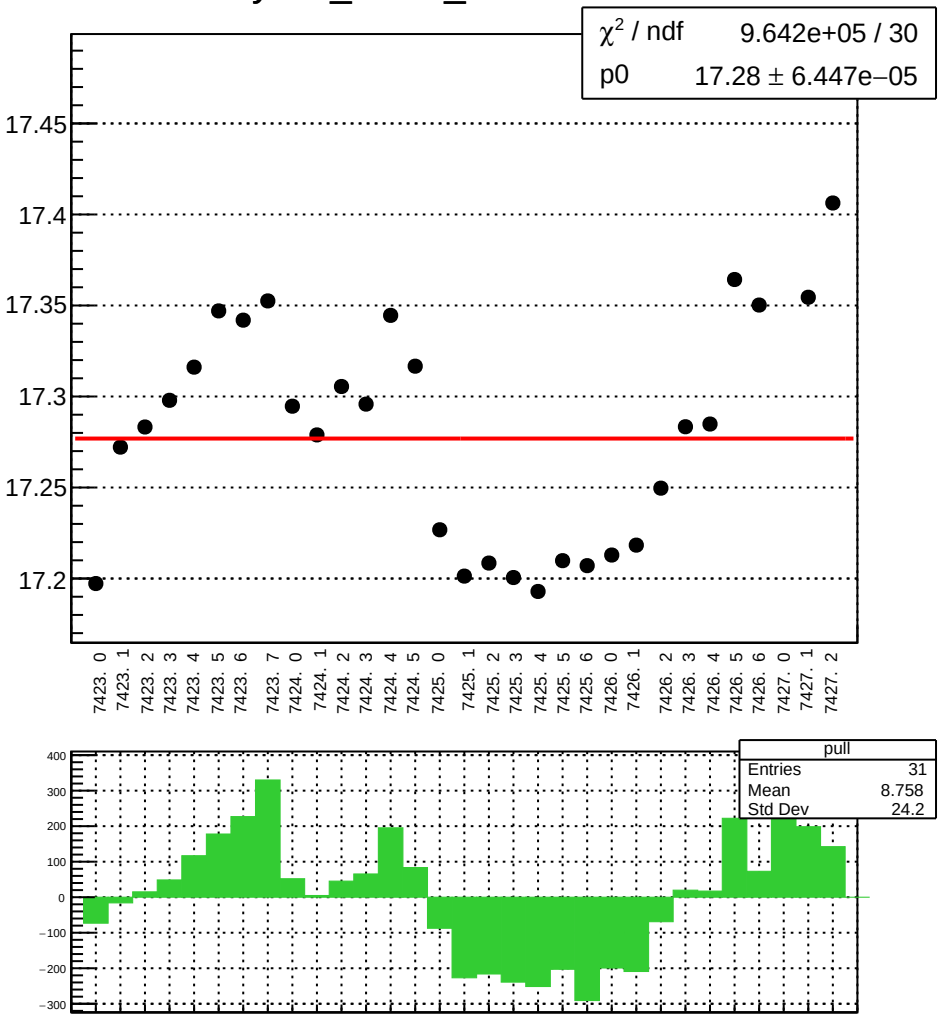

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

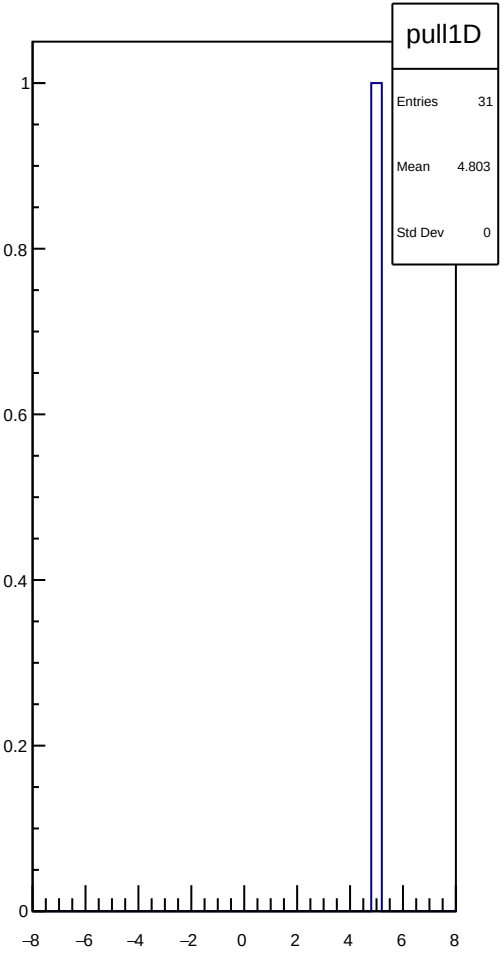

yield_sam3_rms vs run
χ² / ndf 1.101e+05 / 30
p0 0.06185 ± 8.877e–05
0.6
0.5
0.4
0.3
0.2
0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

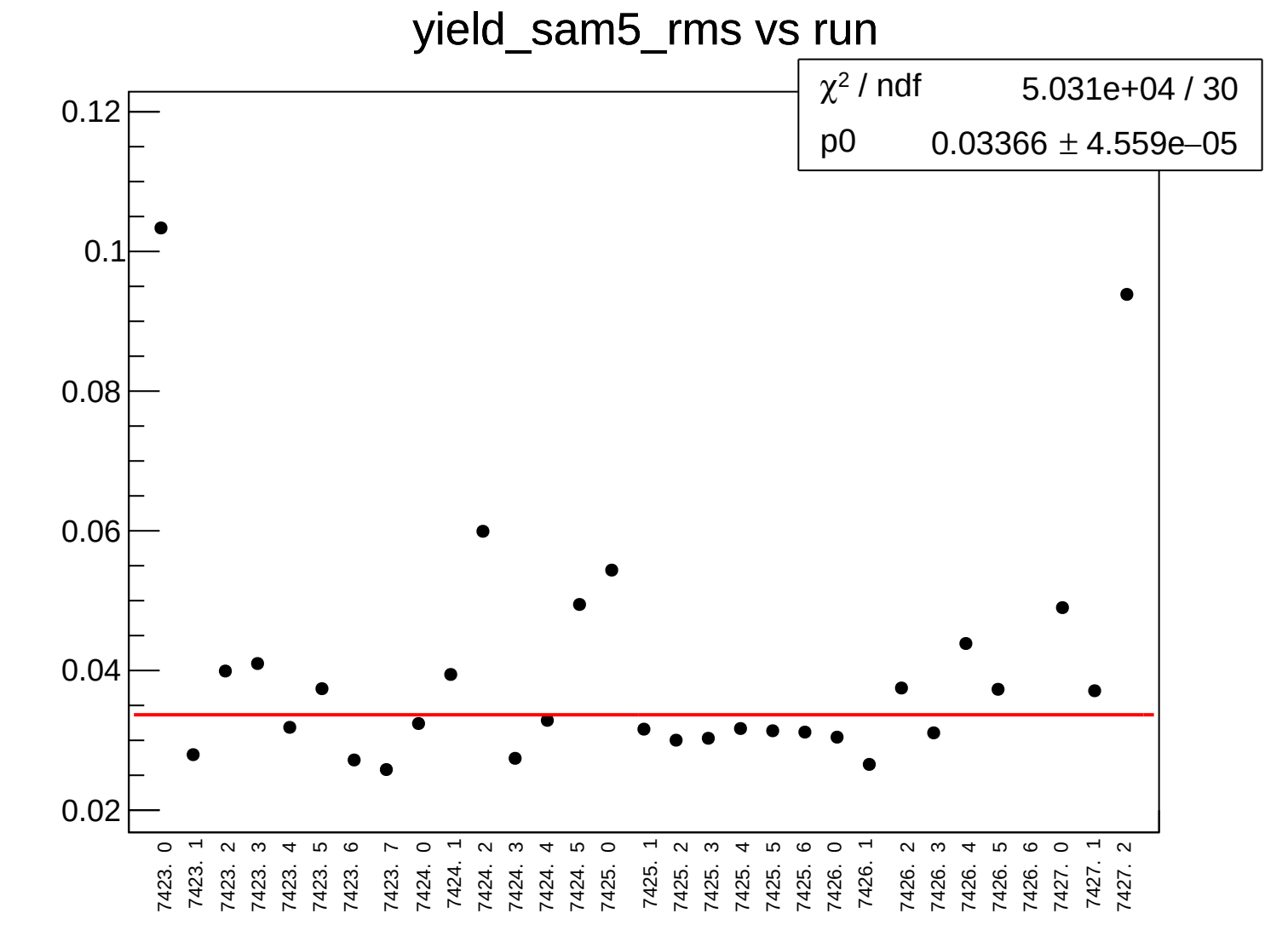

yield_sam4_mean vs run
χ² / ndf 6.526e+05 / 30
p0 15.13 ± 0.0001426
15.6
15.4
15.2
15
14.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 54.27
Std Dev 0
300
200
100
0
−100
−200

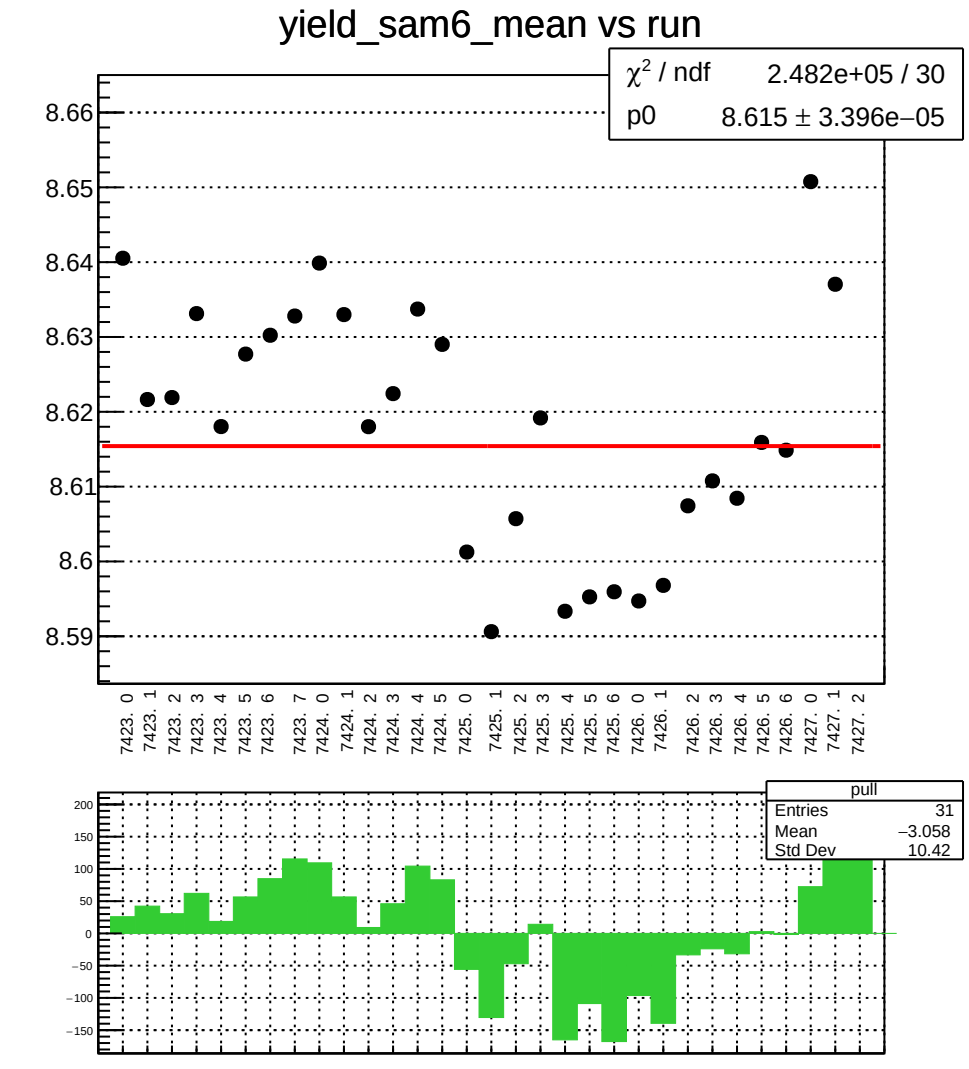

pull1D
Entries 31
Mean −1.657
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

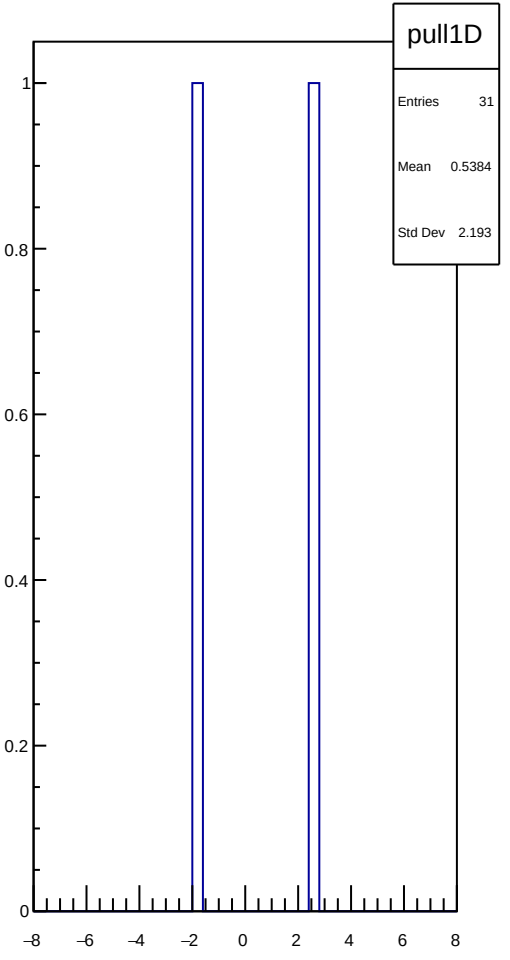

yield_sam4_rms vs run
χ² / ndf 8.188e+04 / 30
p0 0.07227 ± 0.0001008
0.5
0.4
0.3
0.2
0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

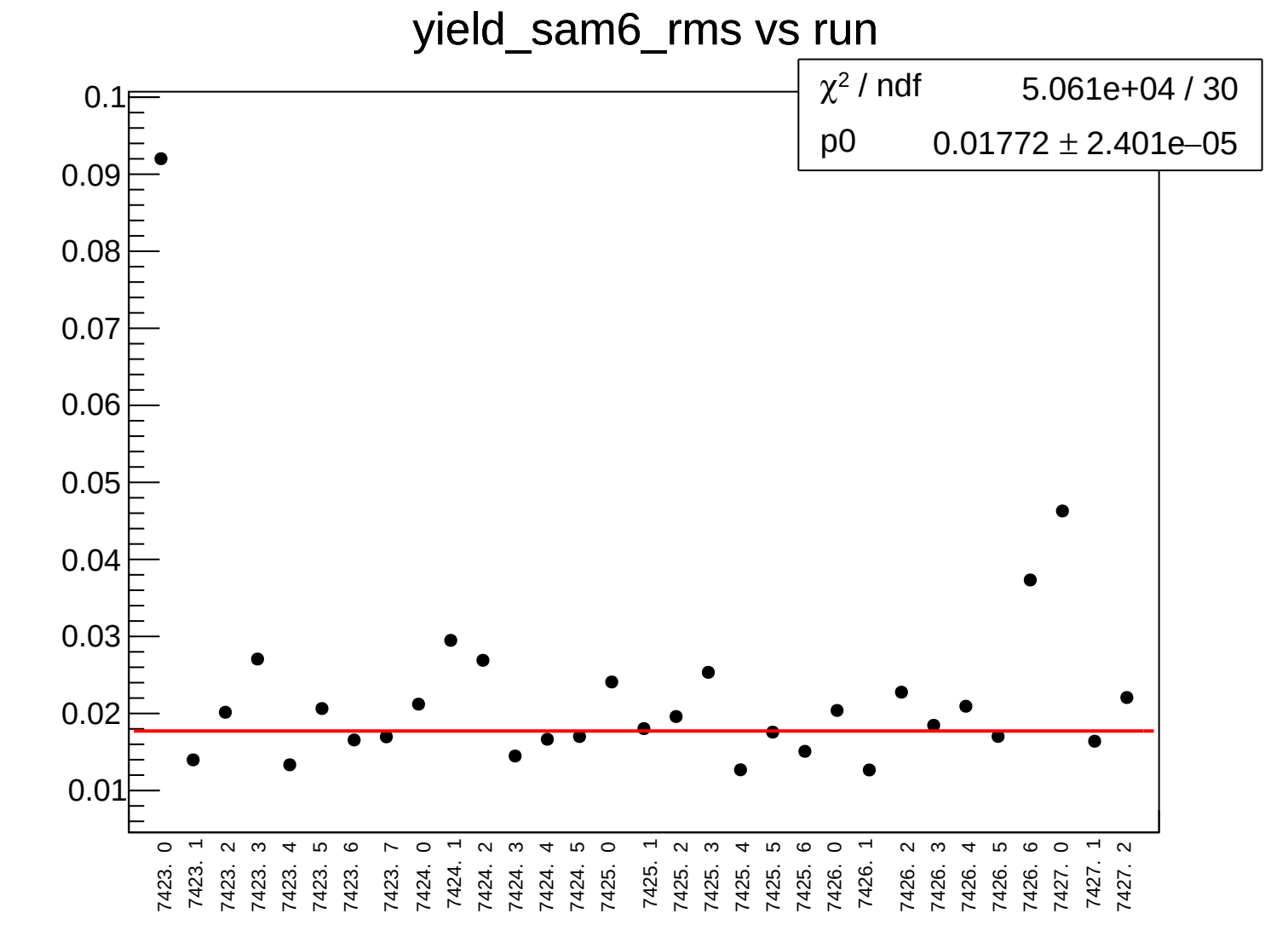

yield_sam5_mean vs run
χ² / ndf 9.642e+05 / 30
p0 17.28 ± 6.447e−05
17.45
17.4
17.35
17.3
17.25
17.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.758
Std Dev 24.2
400
300
200
100
0
−100
−200
−300

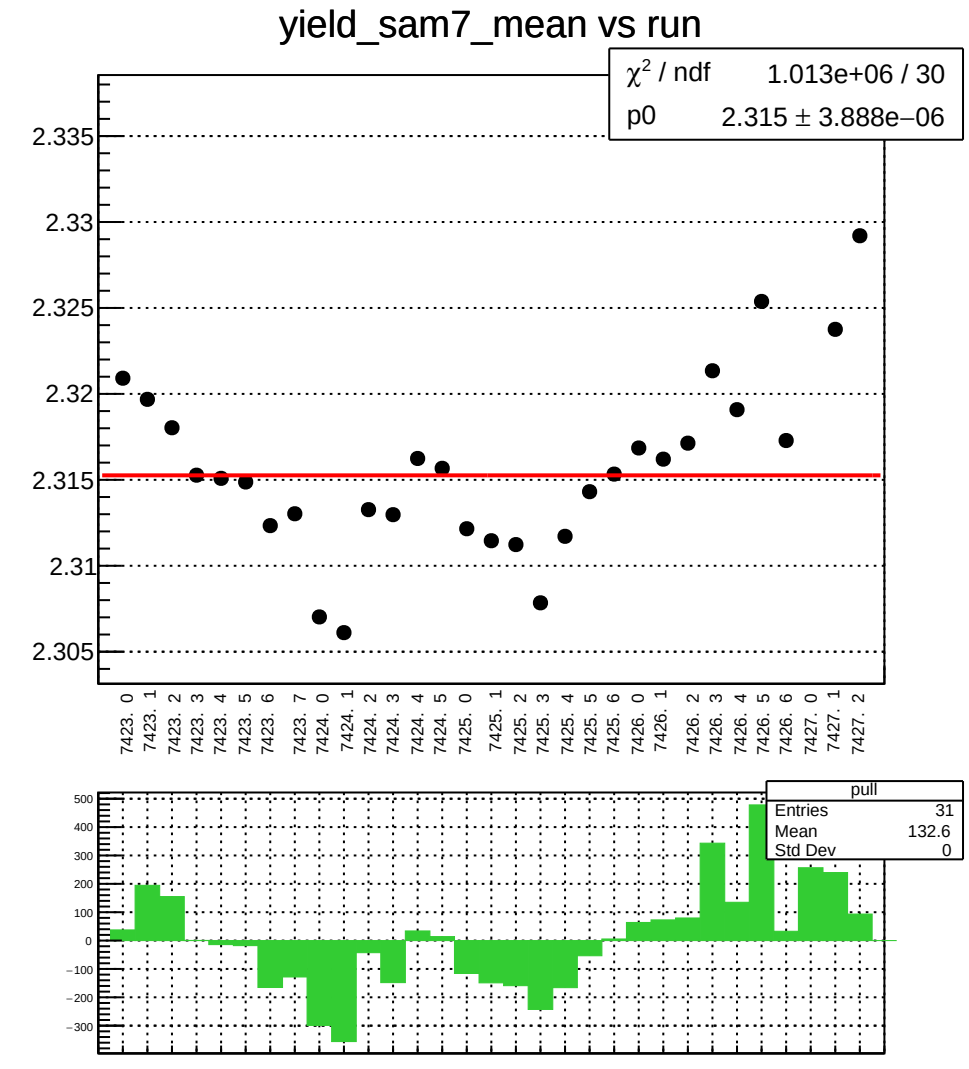

pull1D
Entries 31
Mean 4.803
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

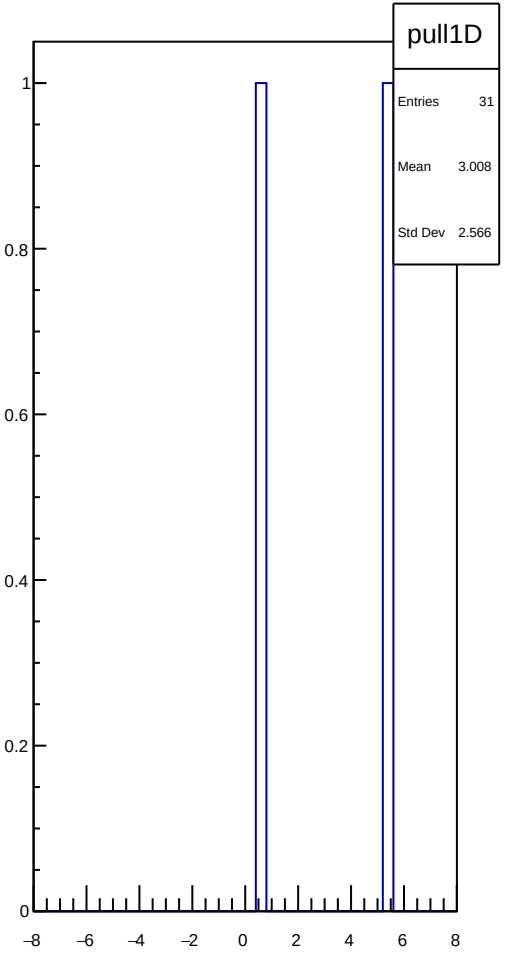

yield_sam5_rms vs run
χ² / ndf 5.031e+04 / 30
p0 0.03366 ± 4.559e–05
0.12
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

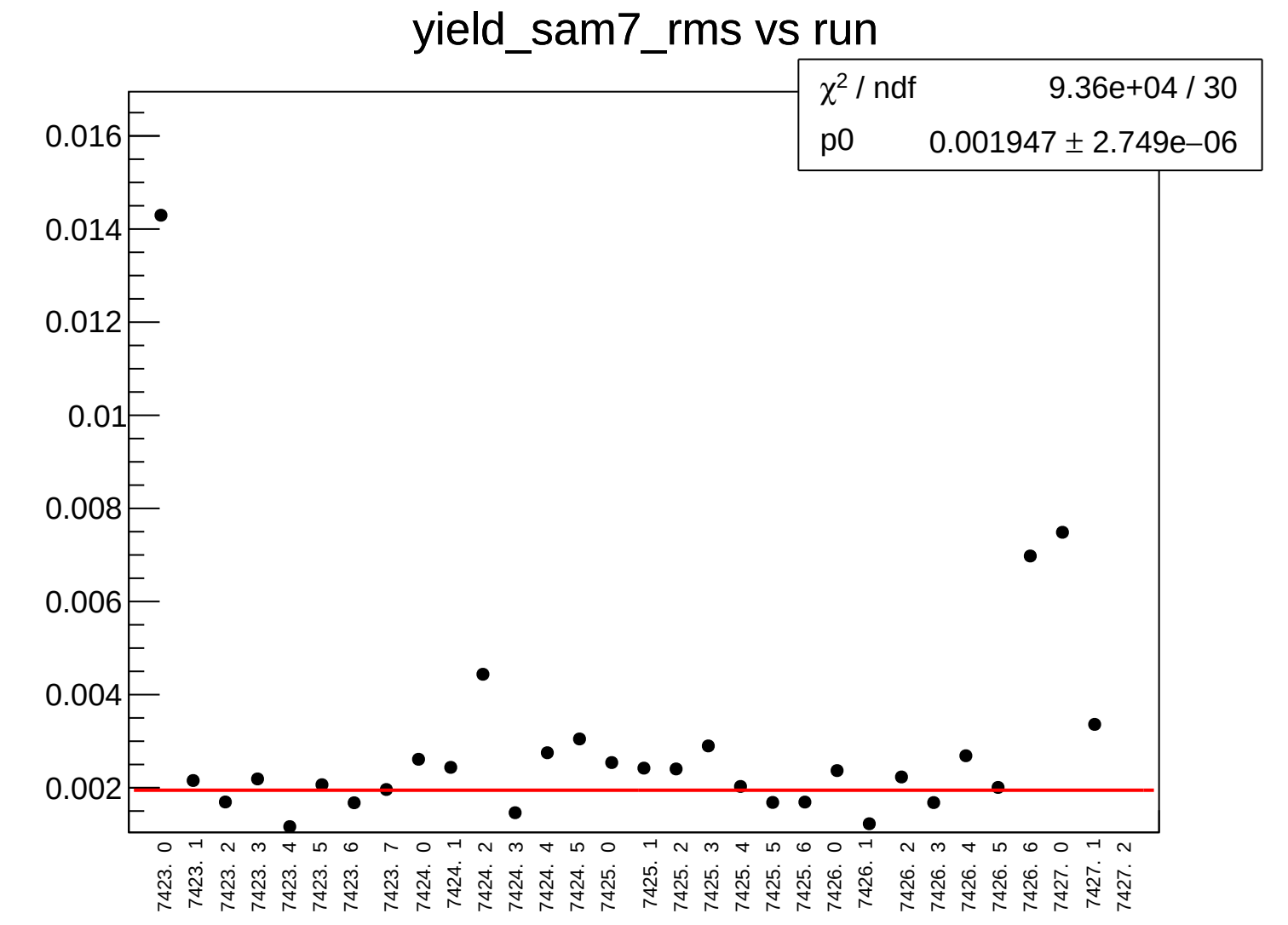

yield_sam6_mean vs run
χ² / ndf 2.482e+05 / 30
p0 8.615 ± 3.396e−05
8.66
8.65
8.64
8.63
8.62
8.61
8.6
8.59
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −3.058
Std Dev 10.42
200
150
100
50
0
−50
−100
−150

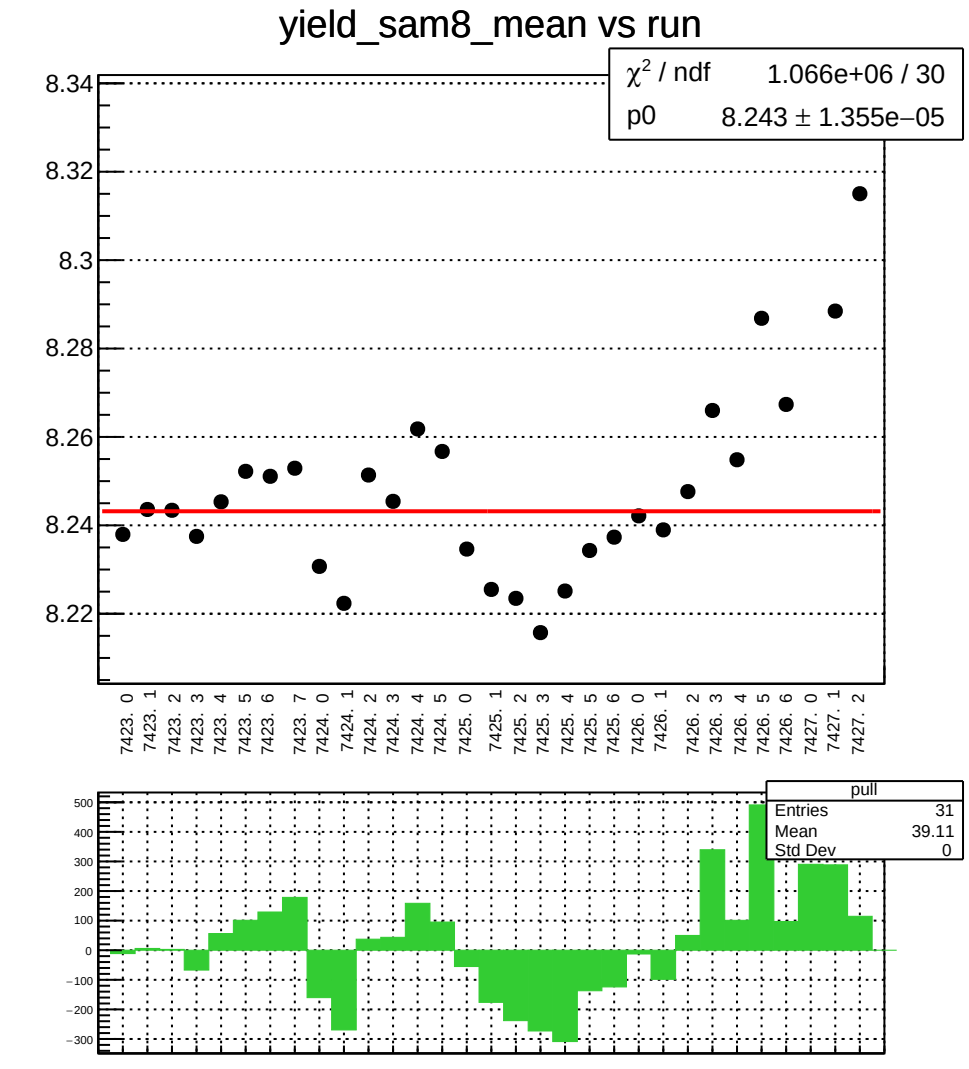

pull1D
Entries 31
Mean 0.5384
Std Dev 2.193
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

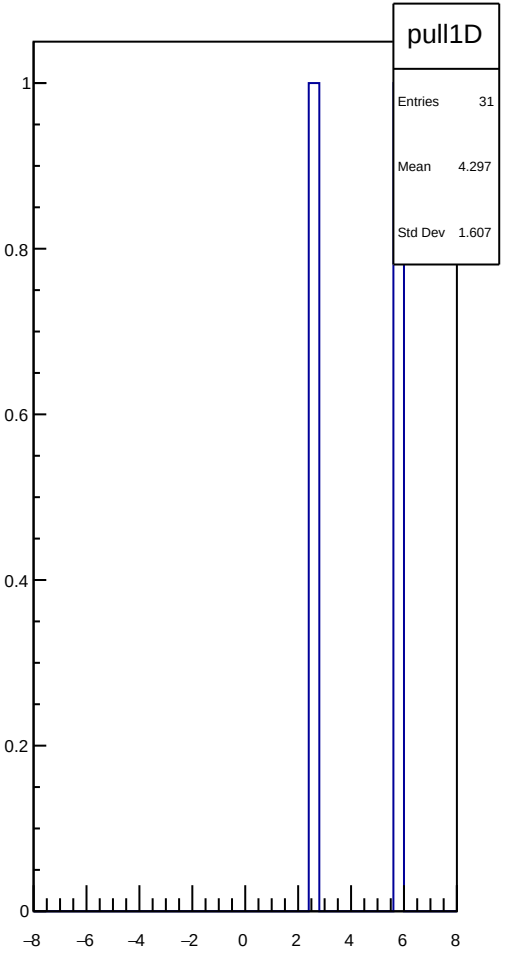

yield_sam6_rms vs run
χ² / ndf 5.061e+04 / 30
p0 0.01772 ± 2.401e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

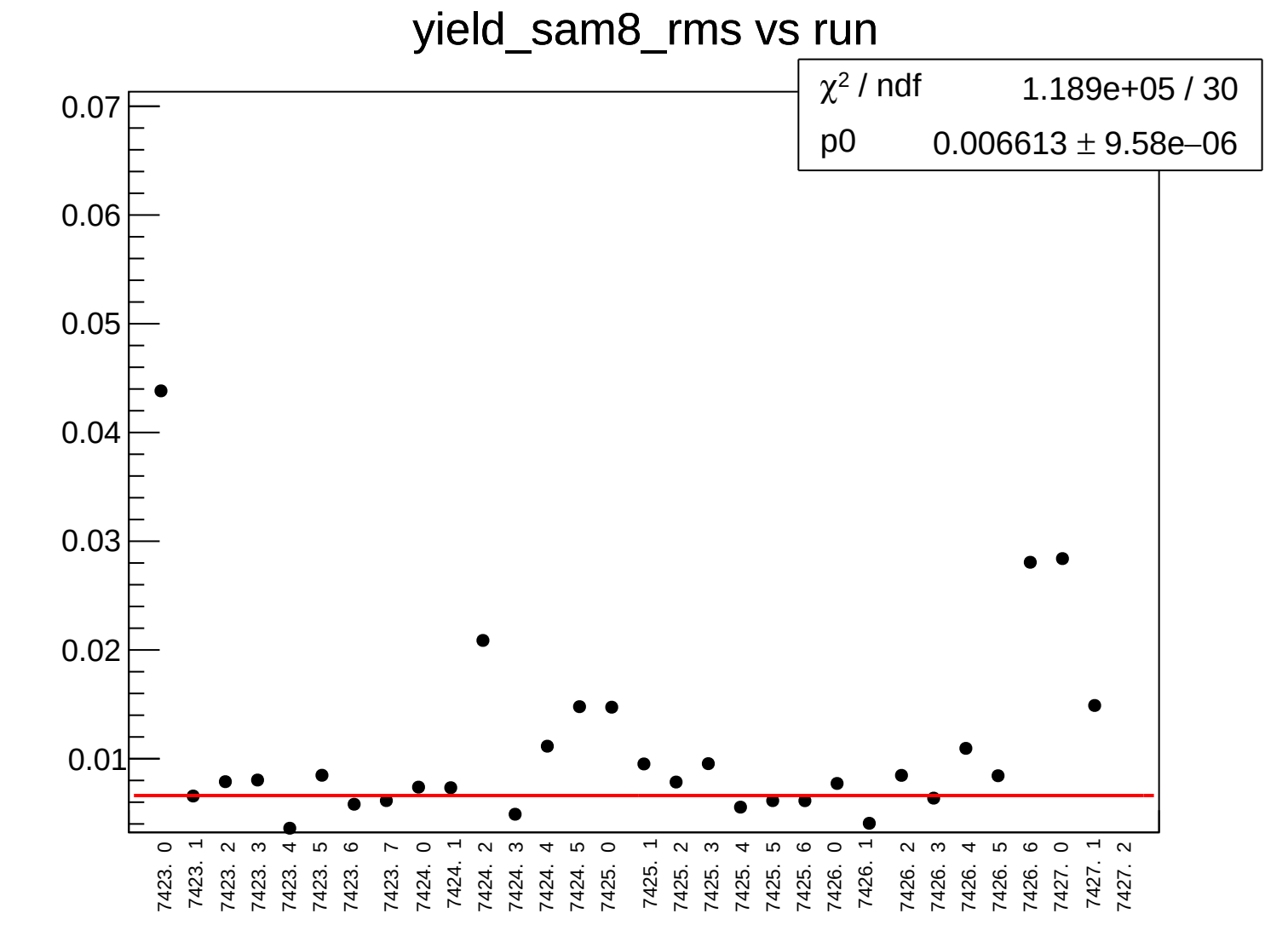

yield_sam7_mean vs run
χ² / ndf 1.013e+06 / 30
p0 2.315 ± 3.888e−06
2.335
2.33
2.325
2.32
2.315
2.31
2.305
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 132.6
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

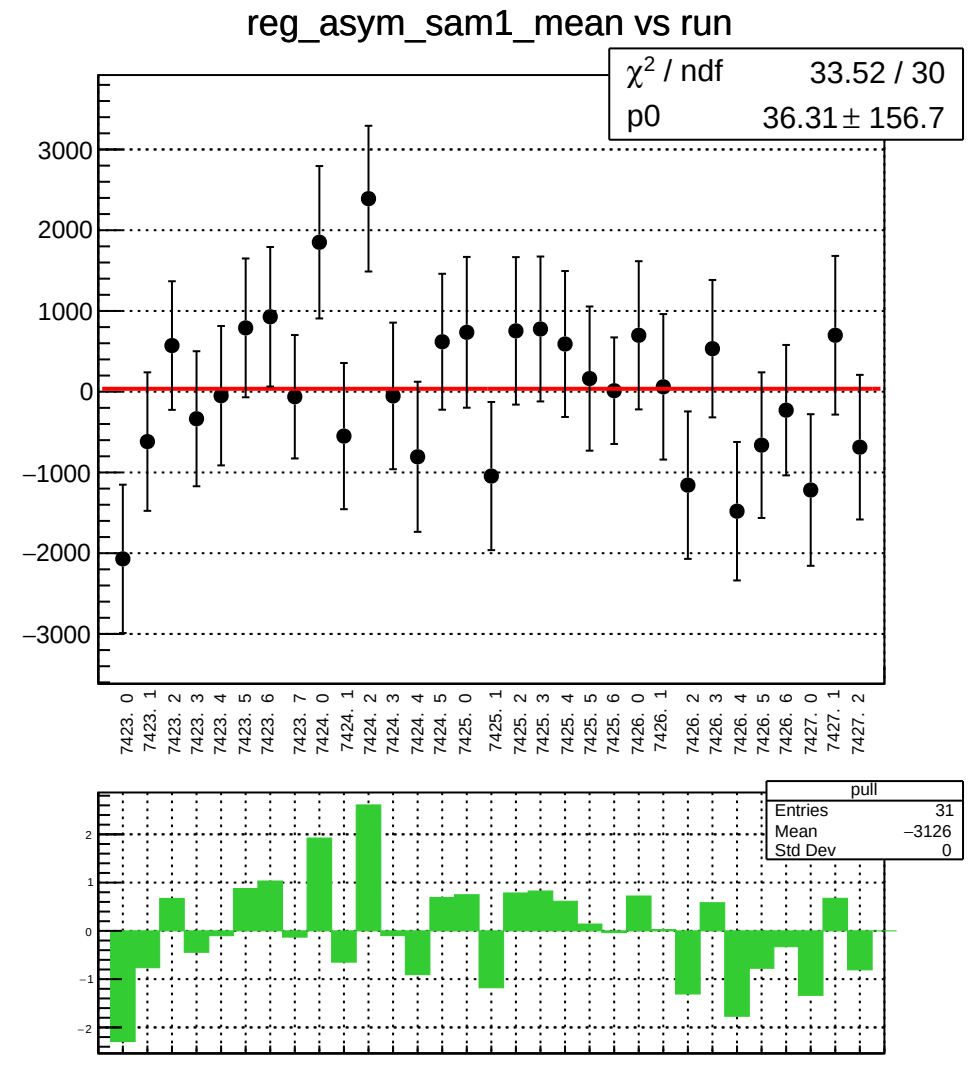

pull1D
Entries 31
Mean 3.008
Std Dev 2.566
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

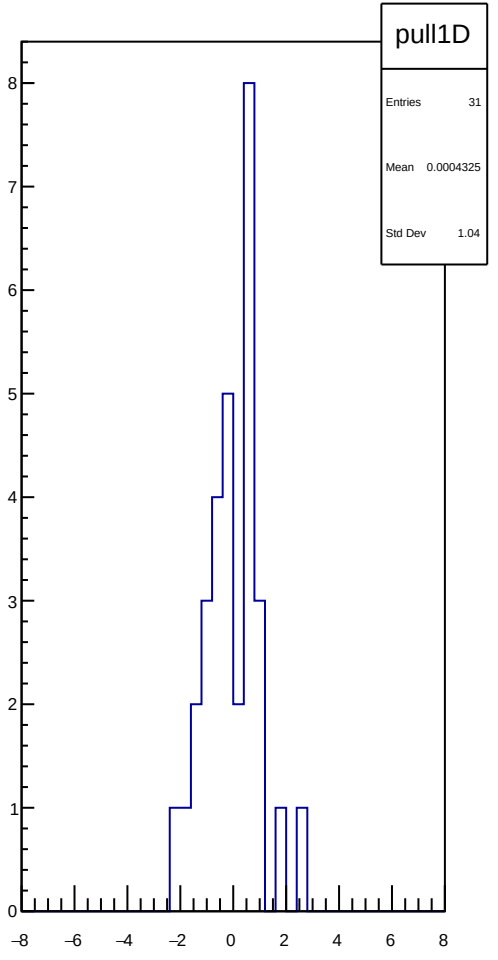

yield_sam7_rms vs run
χ² / ndf 9.36e+04 / 30
p0 0.001947 ± 2.749e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

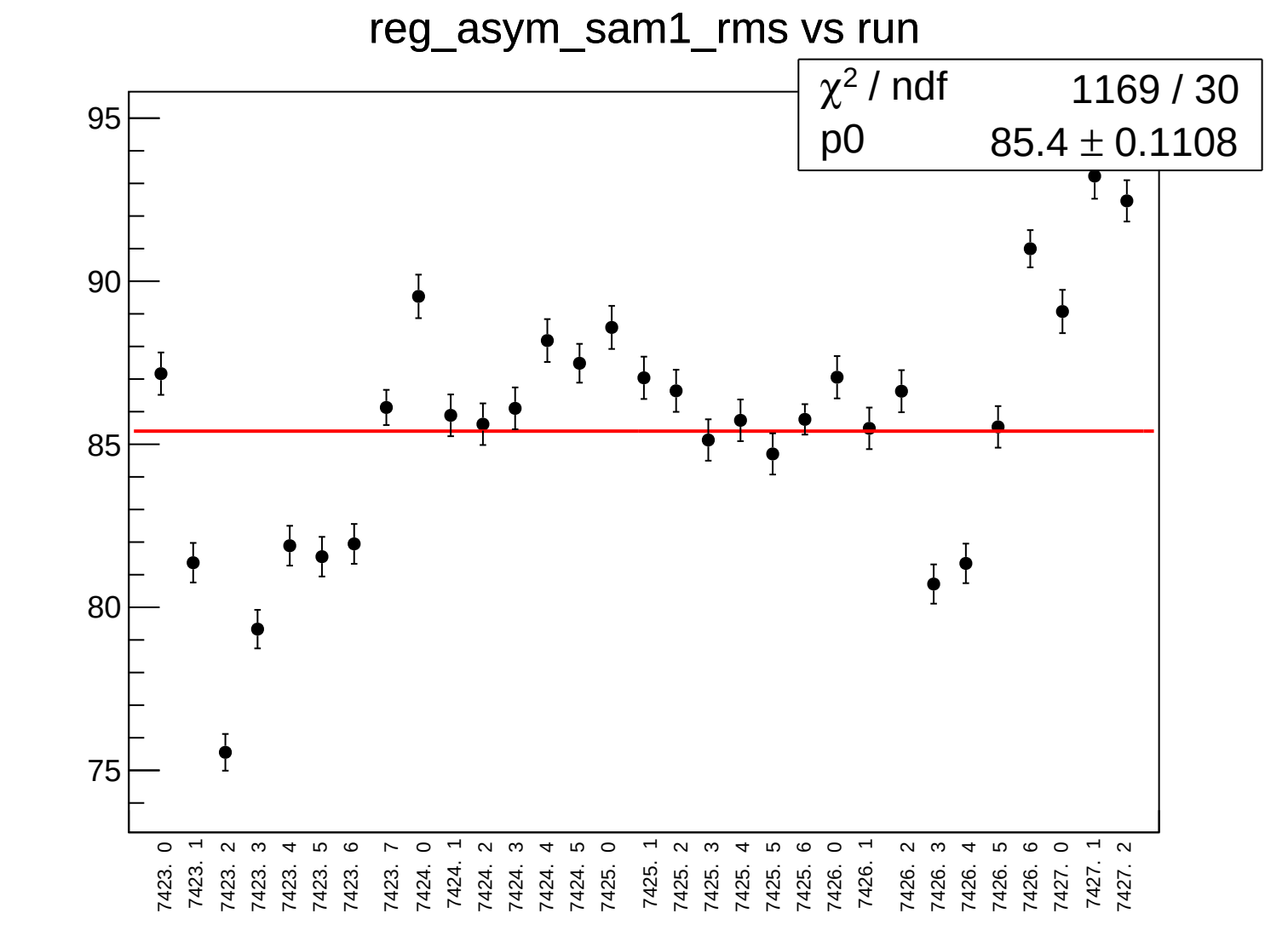

yield_sam8_mean vs run
χ² / ndf 1.066e+06 / 30
p0 8.243 ± 1.355e−05
8.34
8.32
8.3
8.28
8.26
8.24
8.22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 39.11
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

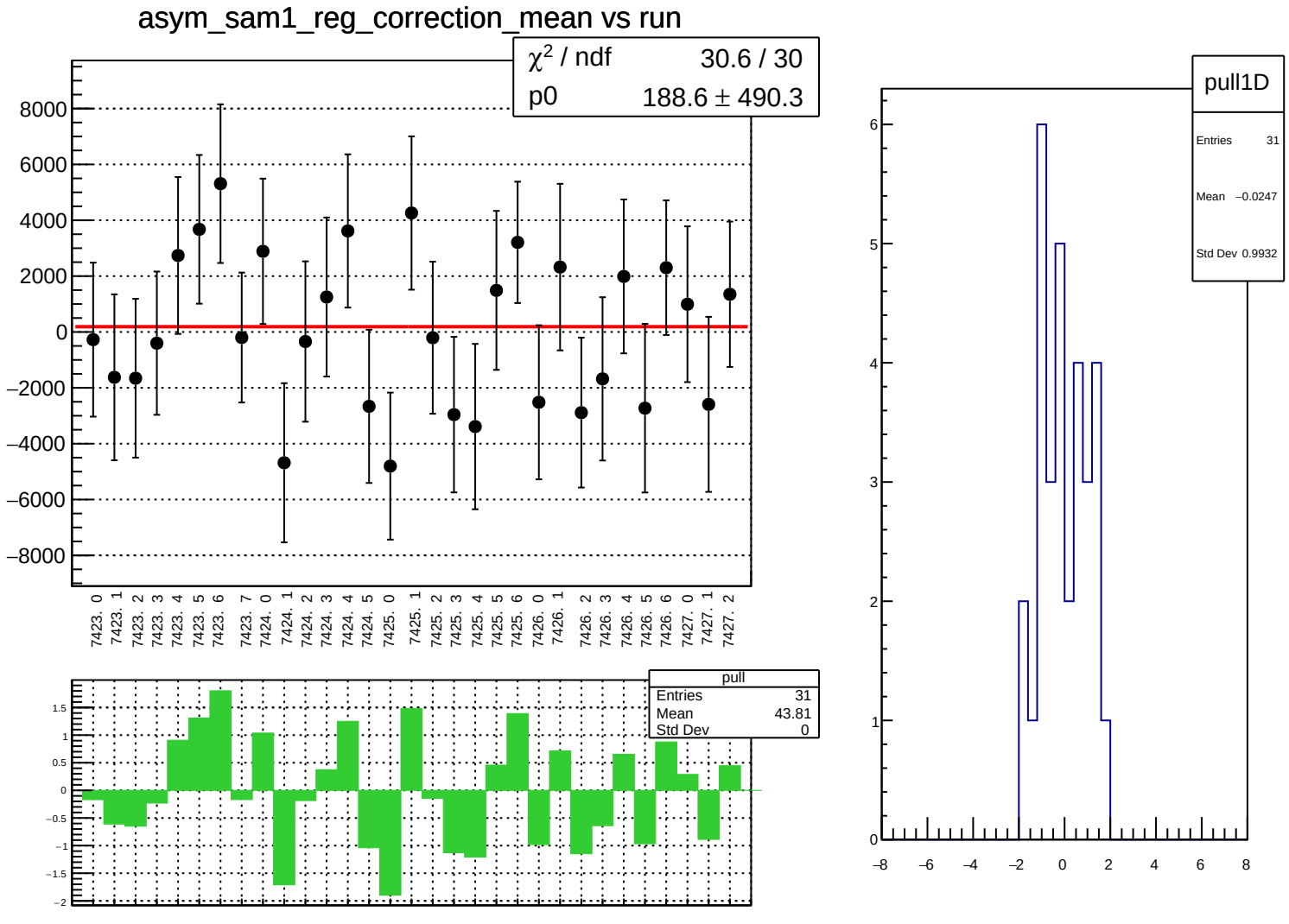

pull1D
Entries 31
Mean 4.297
Std Dev 1.607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

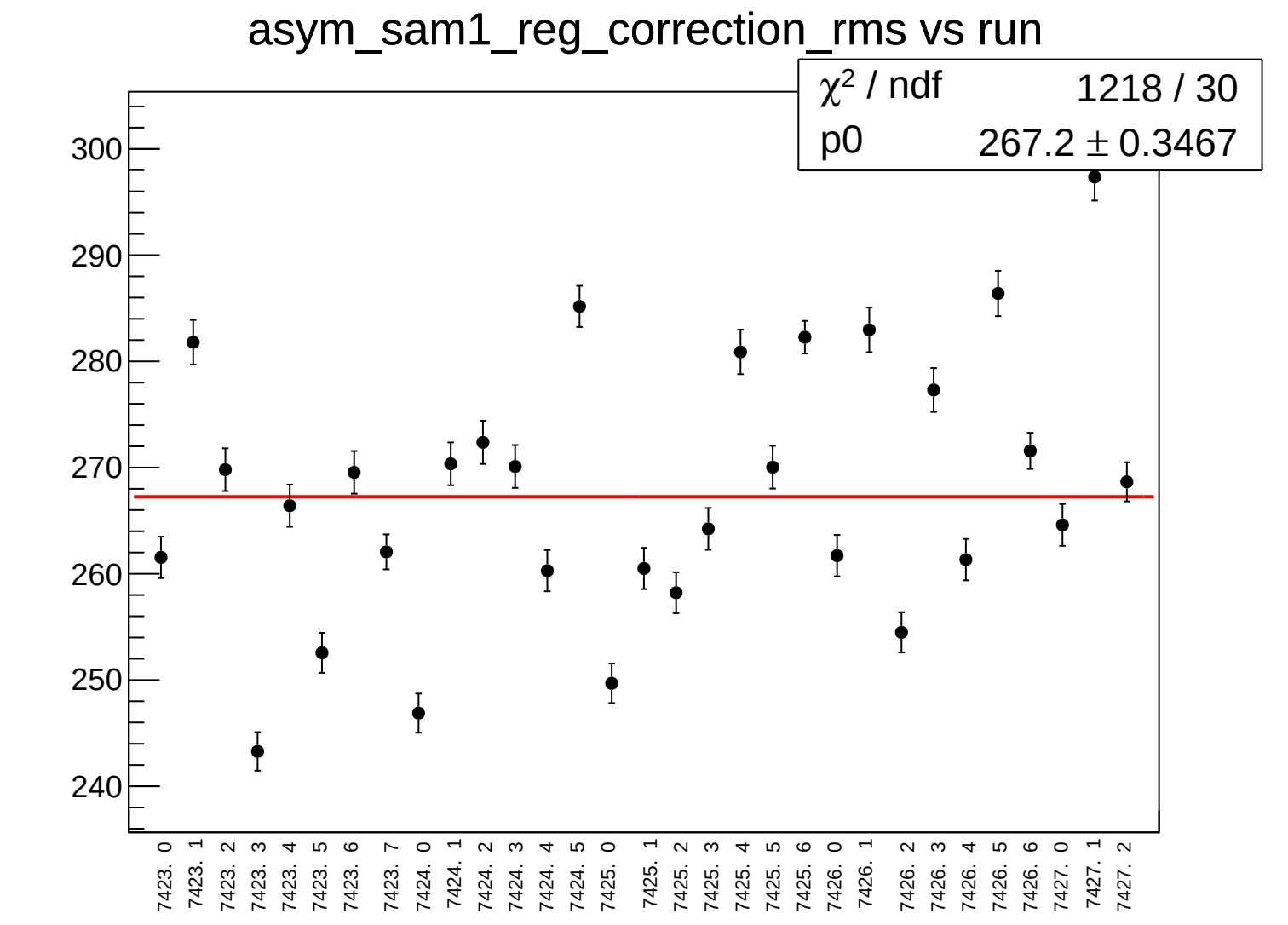

yield_sam8_rms vs run
χ² / ndf 1.189e+05 / 30
p0 0.006613 ± 9.58e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

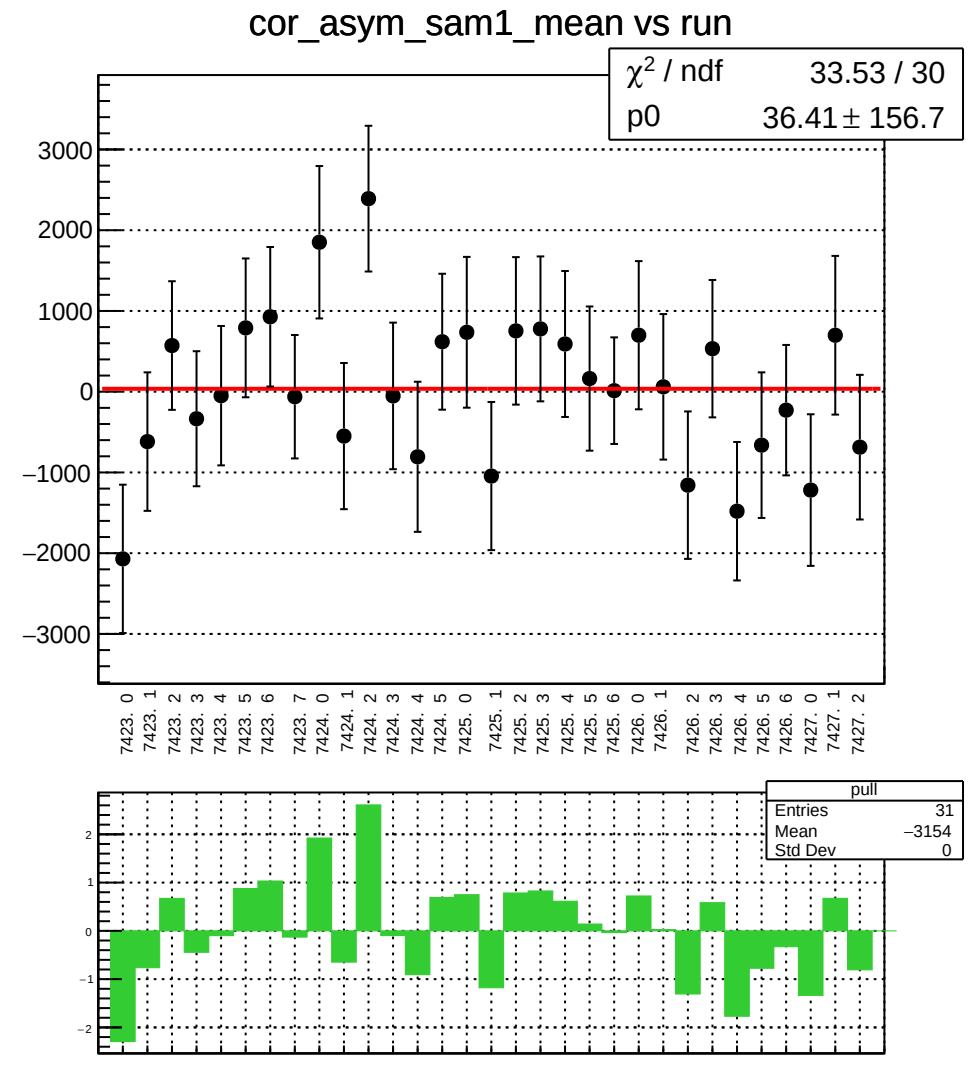

reg_asym_sam1_mean vs run
χ² / ndf 33.52 / 30
p0 36.31 ± 156.7
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −3126
Std Dev 0
2
1
0
−1
−2

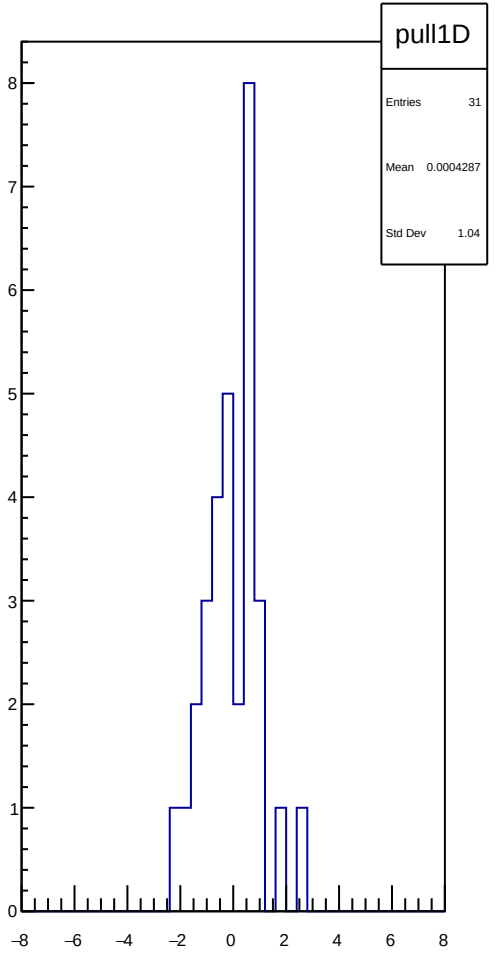

pull1D
Entries 31
Mean 0.0004325
Std Dev 1.04
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

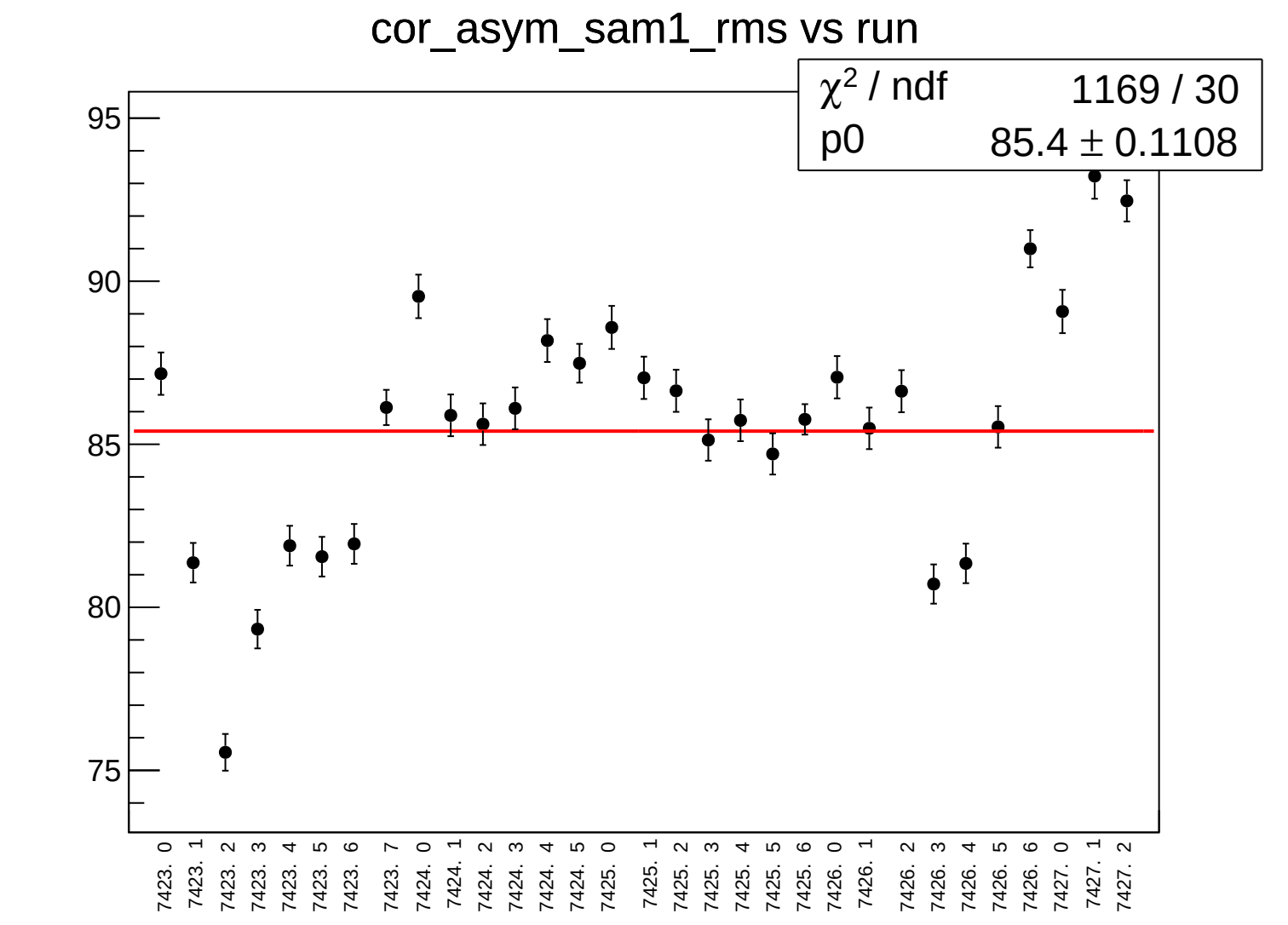

reg_asym_sam1_rms vs run
χ^2 / ndf 1169 / 30
p0 85.4 ± 0.1108
95
90
85
80
75
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam1_reg_correction_mean vs run
χ² / ndf 30.6 / 30
p0 188.6 ± 490.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 43.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.0247
Std Dev 0.9932
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_reg_correction_rms vs run
χ² / ndf 1218 / 30
p0 267.2 ± 0.3467
300
290
280
270
260
250
240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


cor_asym_sam1_mean vs run
χ² / ndf 33.53 / 30
p0 36.41 ± 156.7
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −3154
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 31
Mean 0.0004287
Std Dev 1.04
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam1_rms vs run
χ² / ndf 1169 / 30
p0 85.4 ± 0.1108
95
90
85
80
75
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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7426. 6
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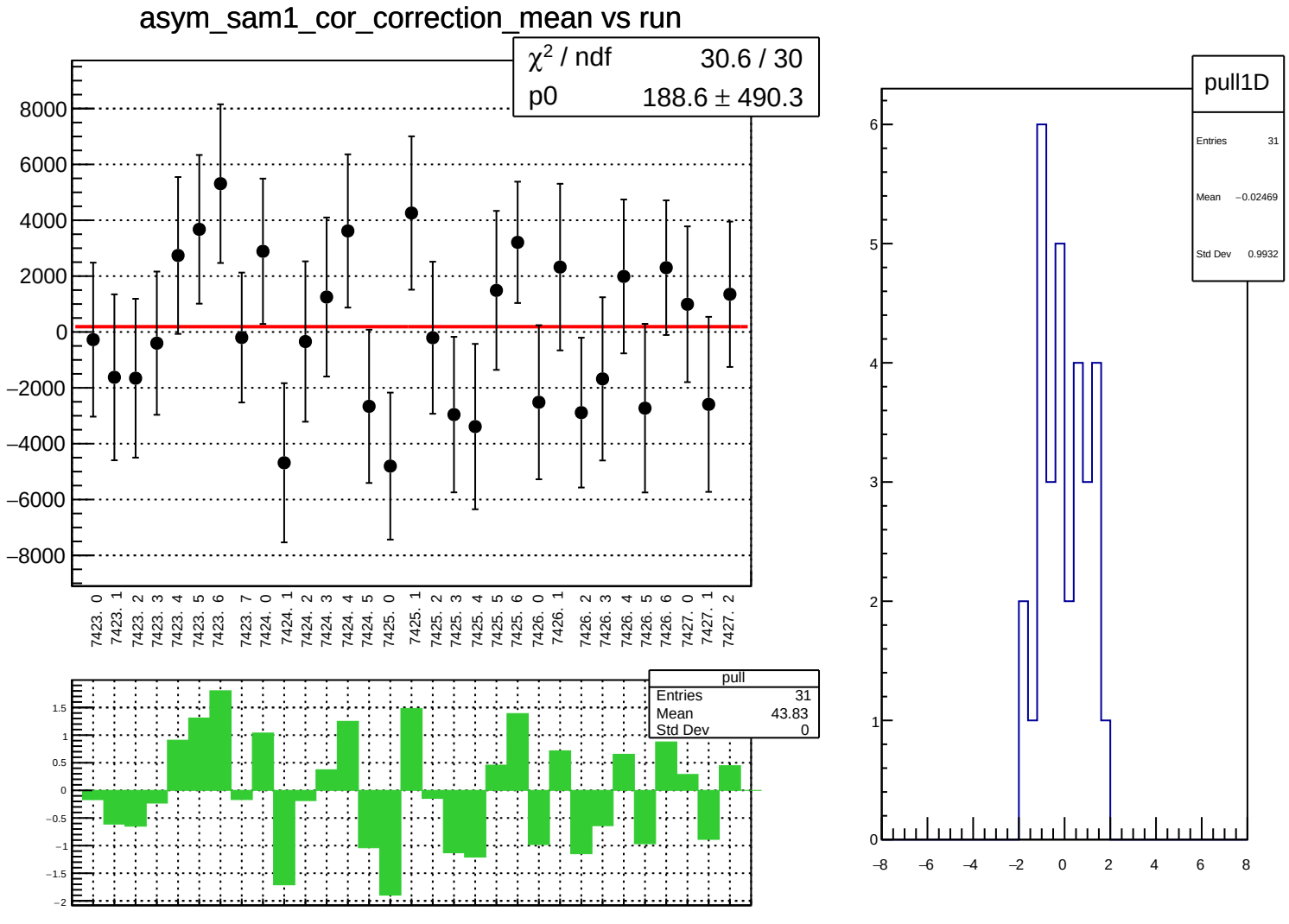
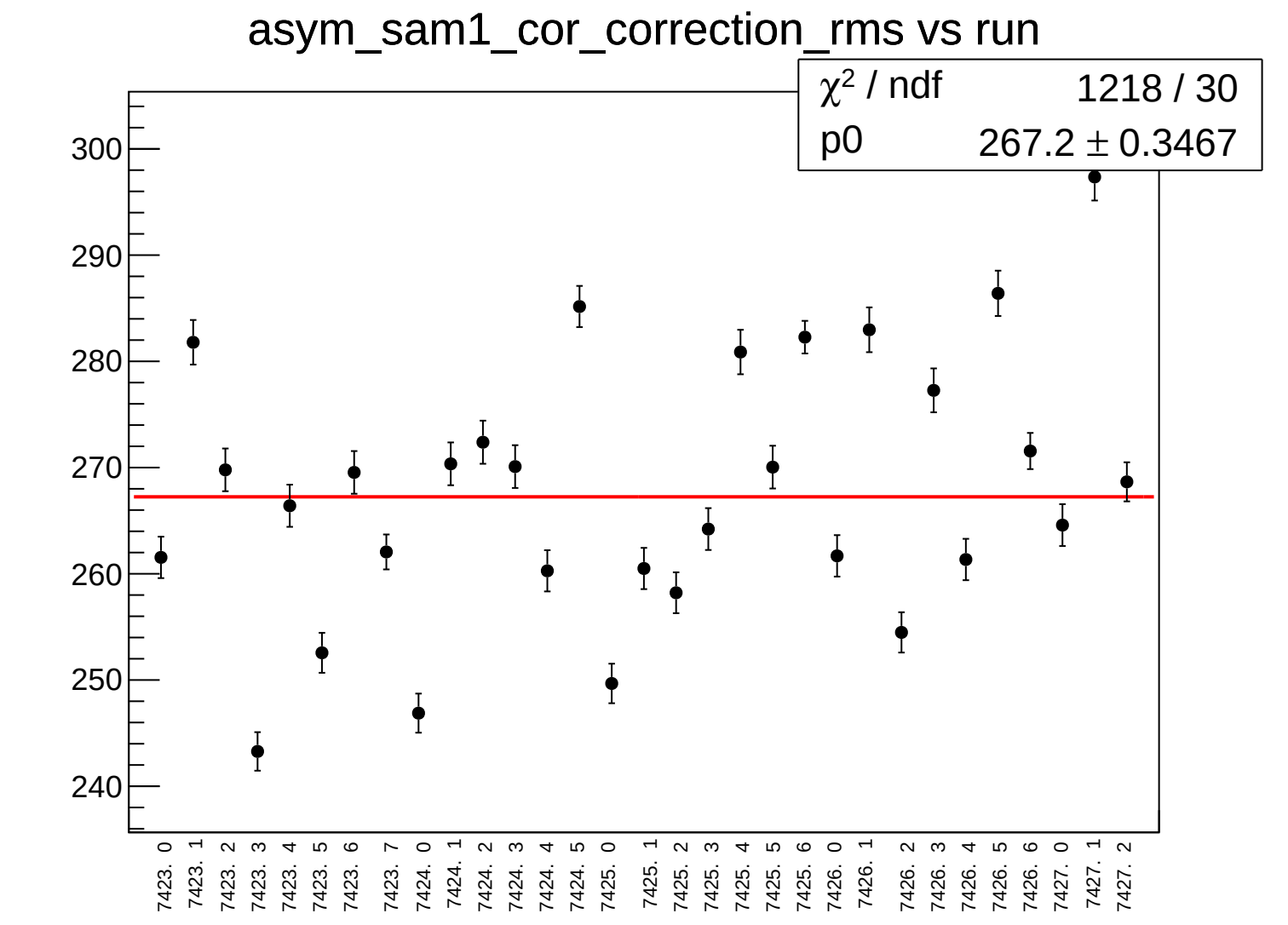
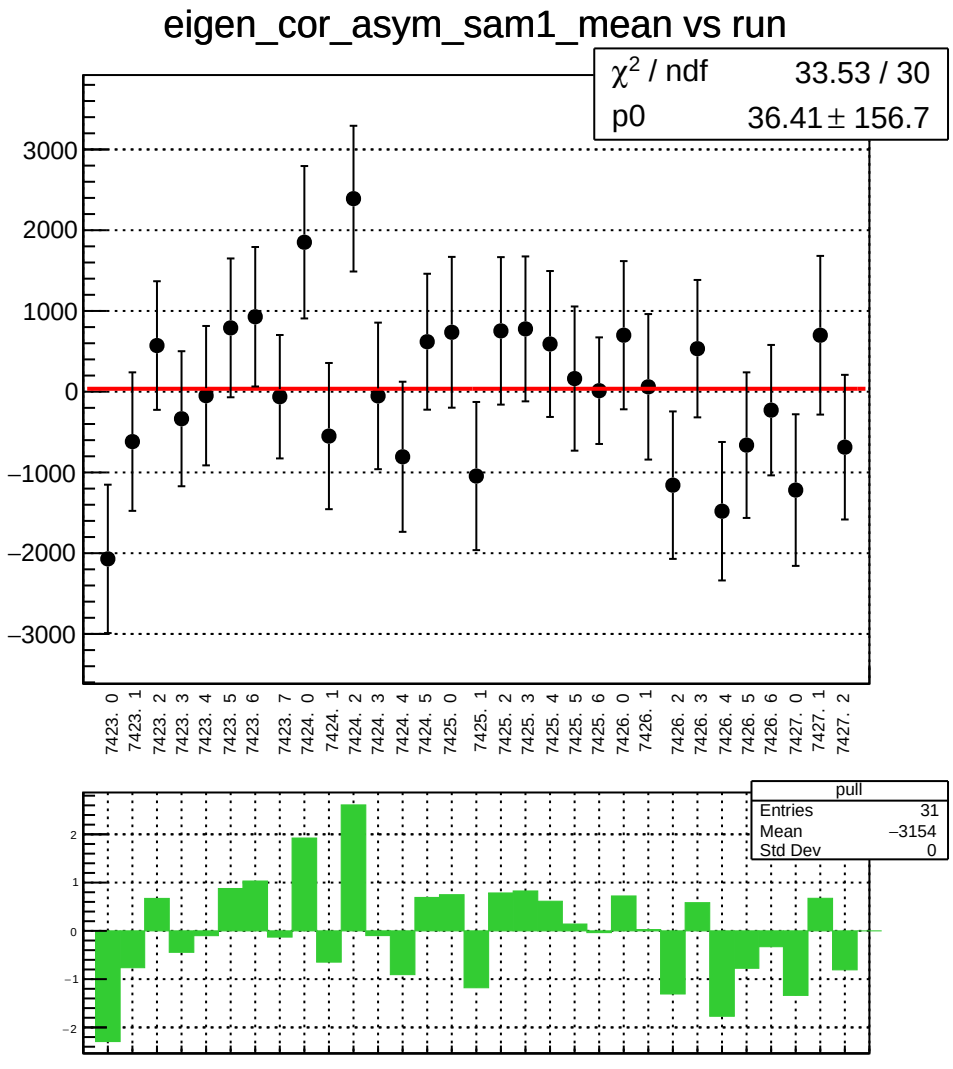
7427. 2


asym_sam1_cor_correction_mean vs run
χ² / ndf 30.6 / 30
p0 188.6 ± 490.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 43.83
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.02469
Std Dev 0.9932
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_cor_correction_rms vs run
χ² / ndf 1218 / 30
p0 267.2 ± 0.3467
300
290
280
270
260
250
240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_cor_asym_sam1_mean vs run
χ² / ndf 33.53 / 30
p0 36.41 ± 156.7
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −3154
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.0004287
Std Dev 1.04
8
7
6
5
4
3
2
1
0
−8
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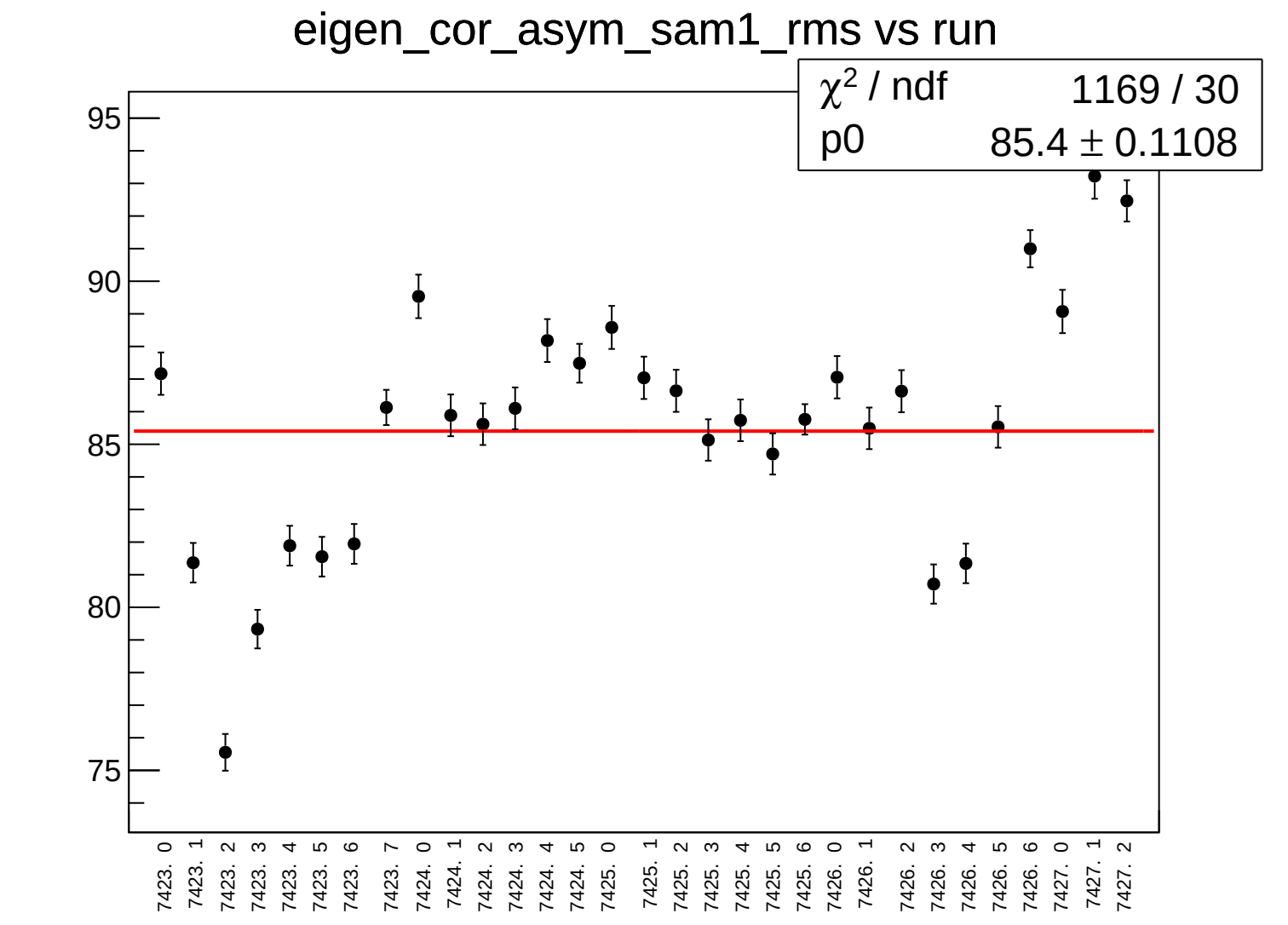
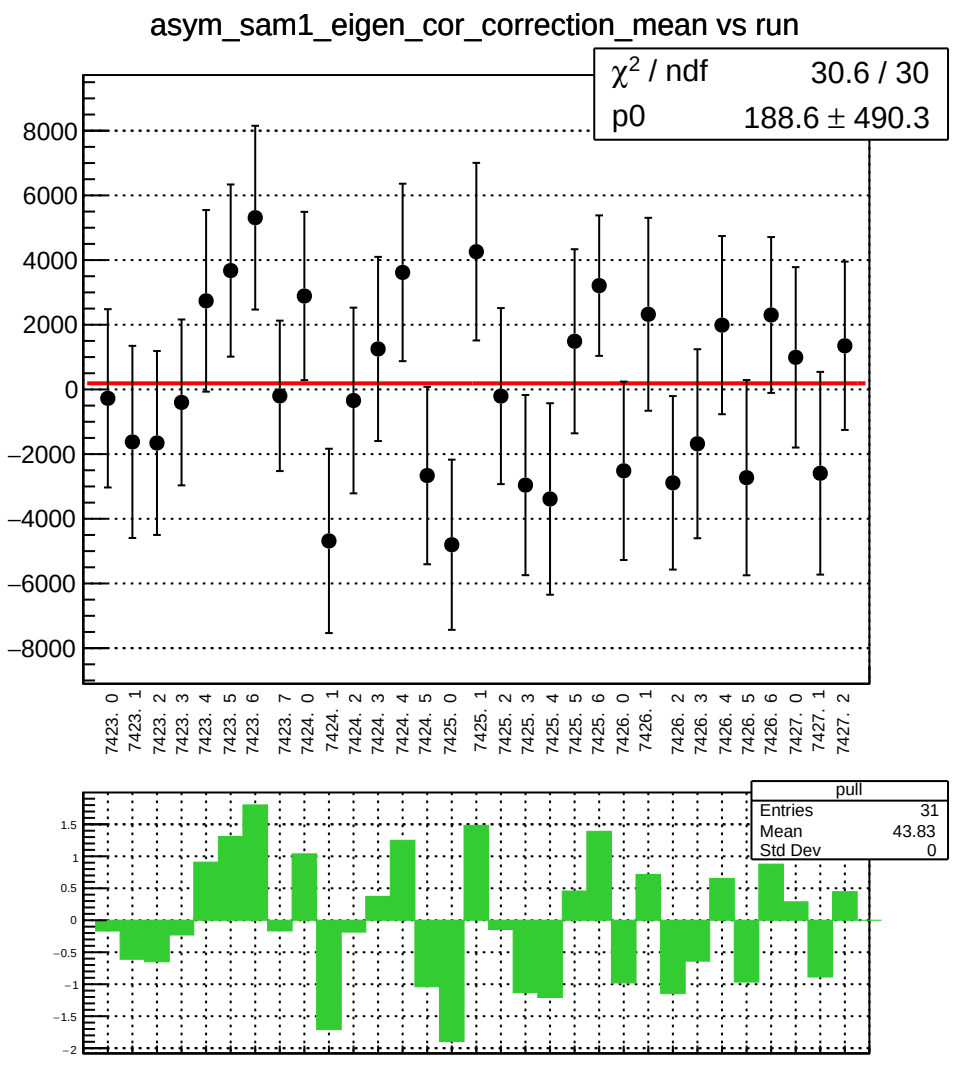
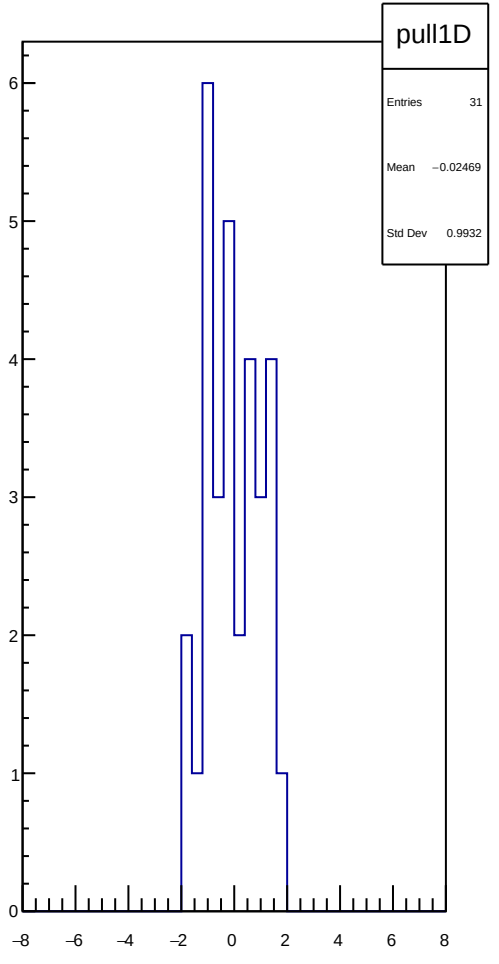
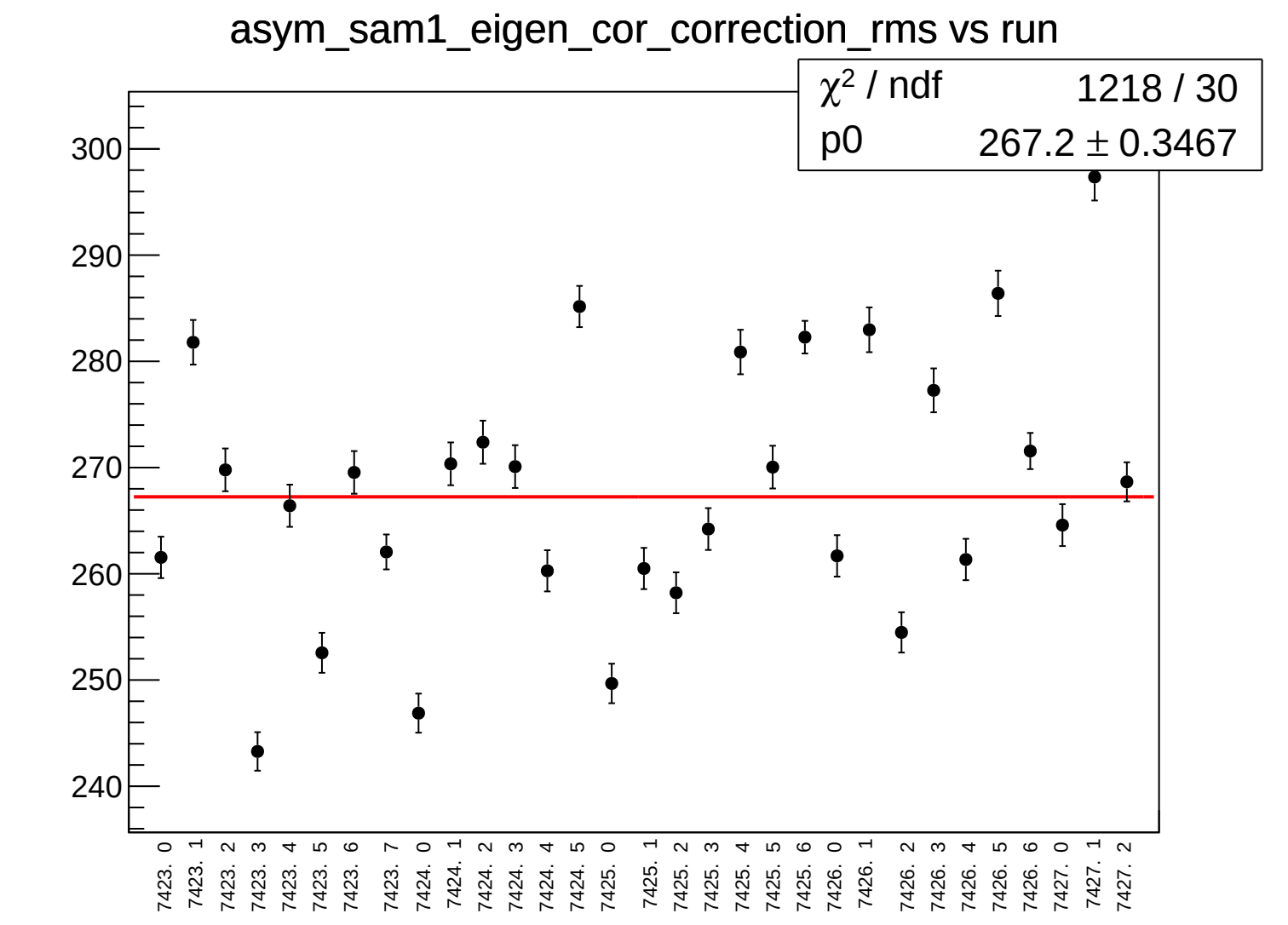
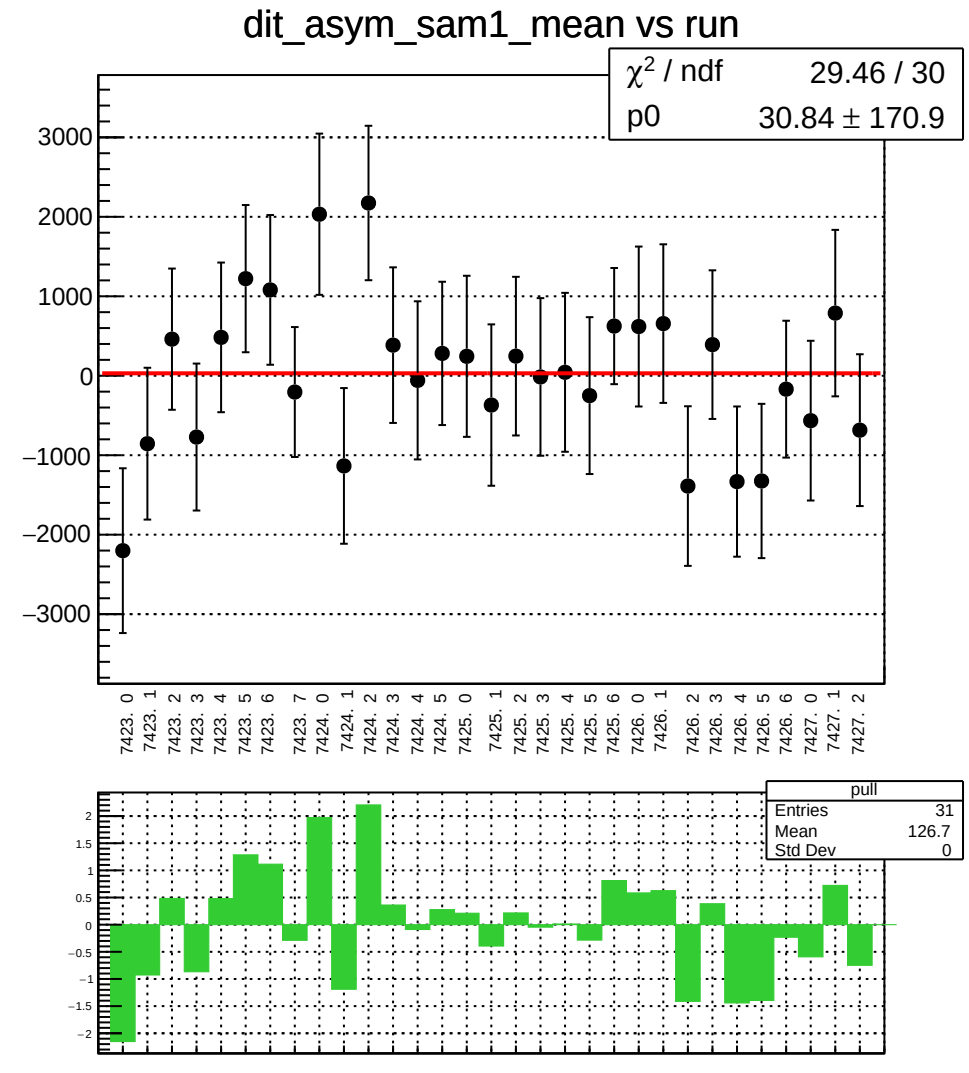
−4
−2
0
2
4
6
8

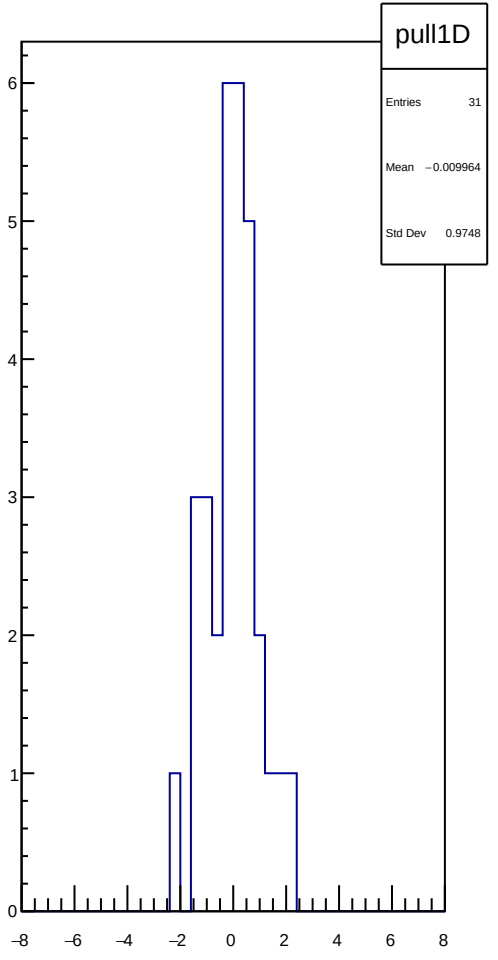

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 1169 / 30
p0 85.4 ± 0.1108
95
90
85
80
75
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

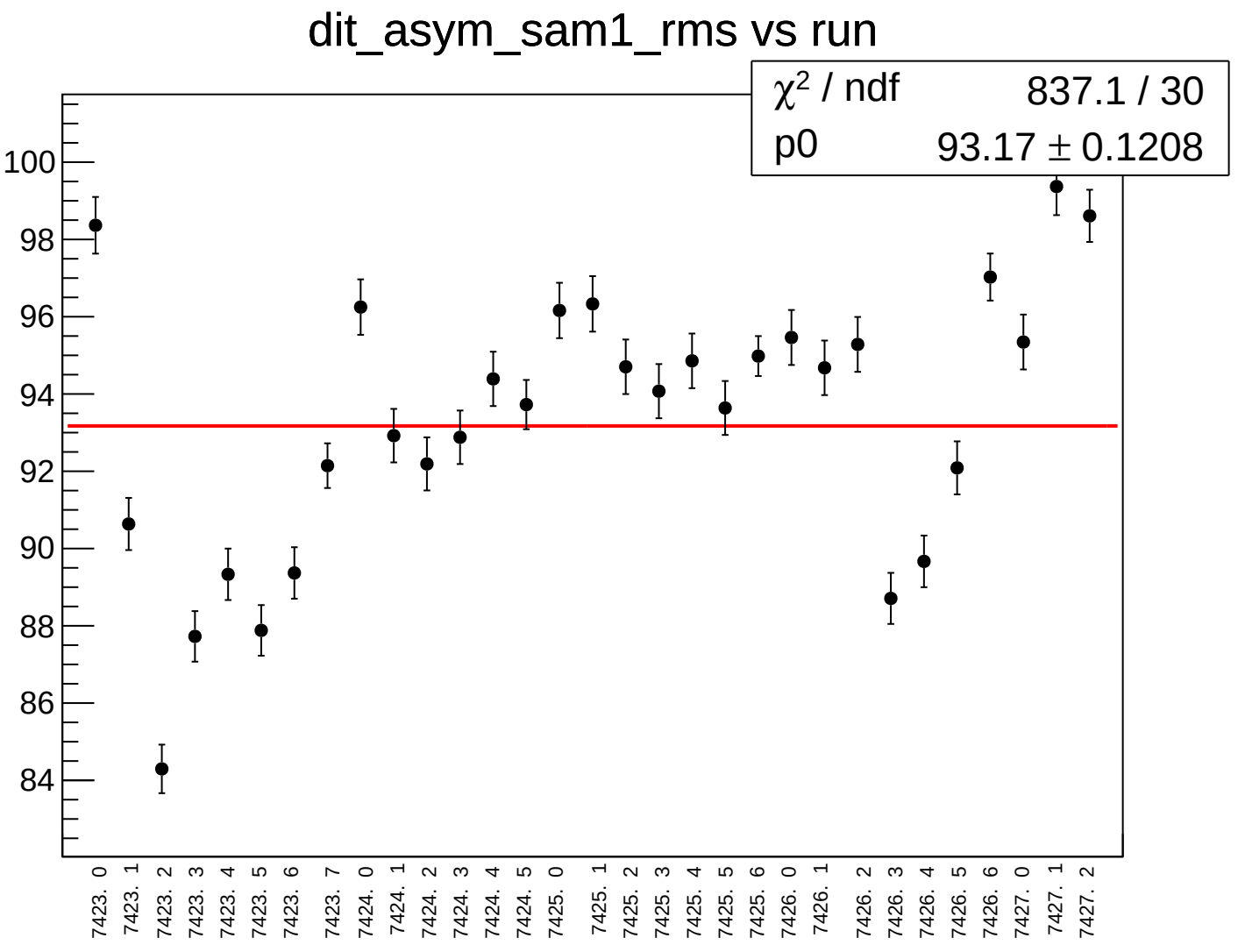

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 30.6 / 30
p0 188.6 ± 490.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 43.83
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

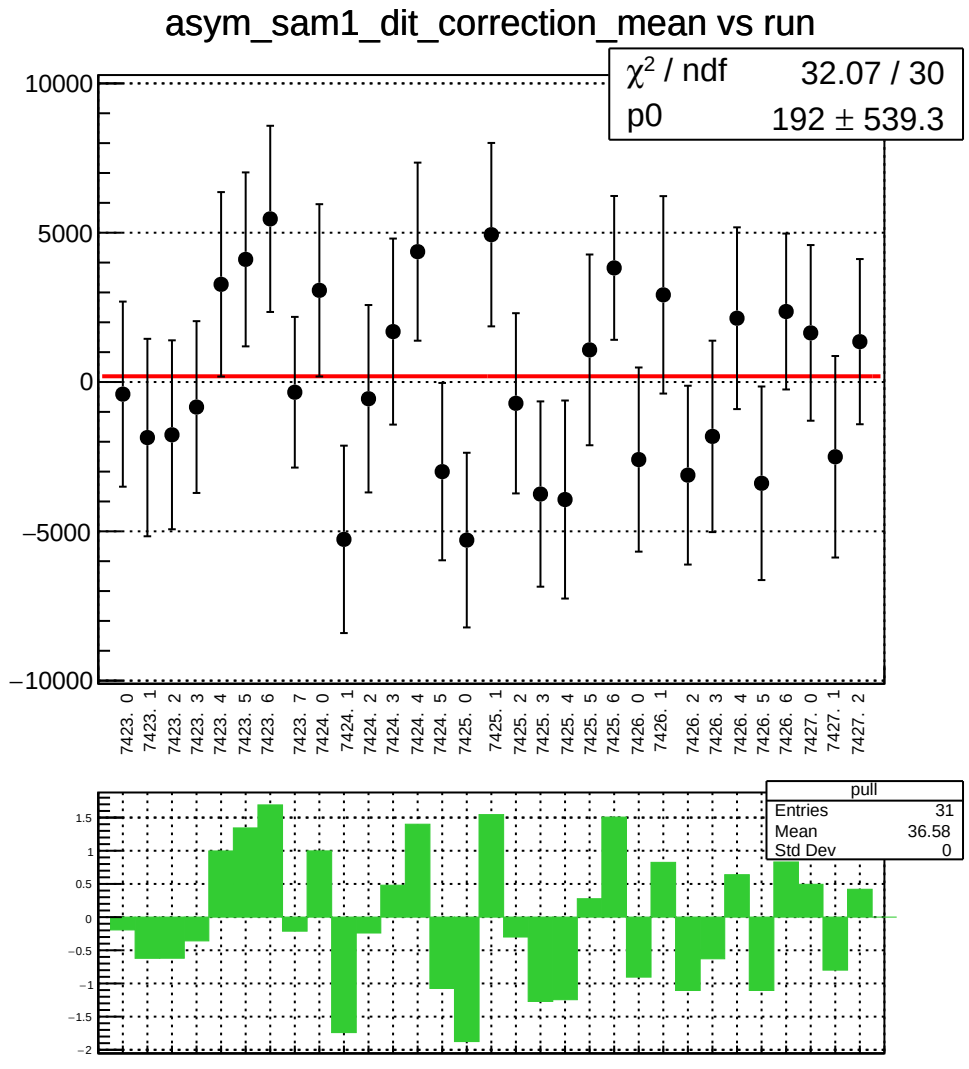

pull1D
Entries 31
Mean −0.02469
Std Dev 0.9932
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

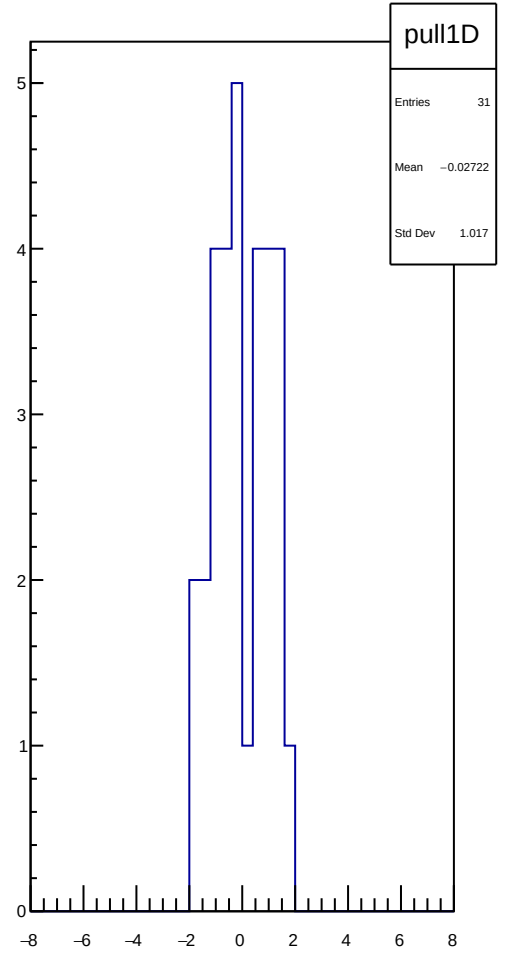

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1218 / 30
p0 267.2 ± 0.3467
300
290
280
270
260
250
240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

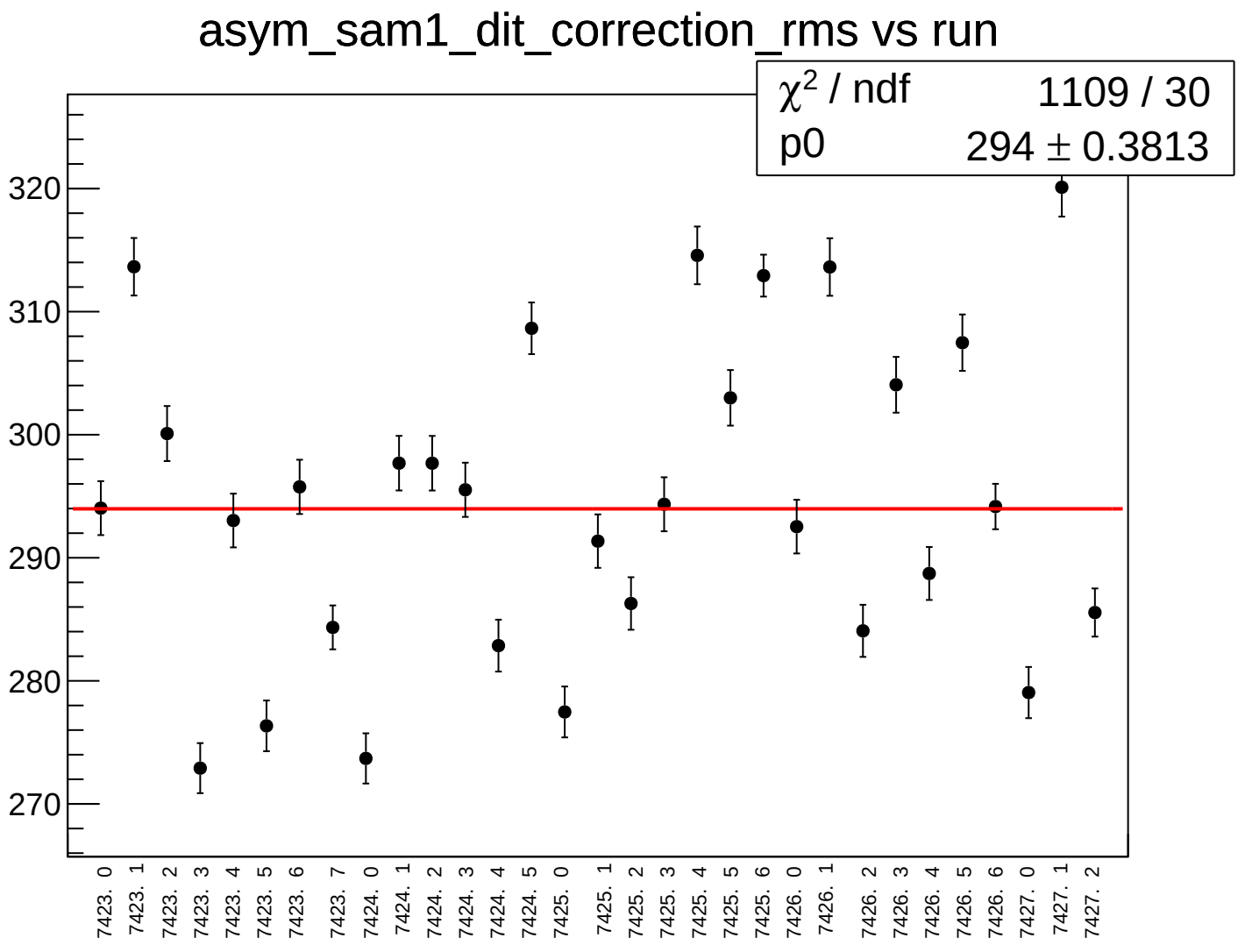

dit_asym_sam1_mean vs run
χ² / ndf 29.46 / 30
p0 30.84 ± 170.9
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 126.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.009964
Std Dev 0.9748
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam1_rms vs run
χ² / ndf 837.1 / 30
p0 93.17 ± 0.1208
100
98
96
94
92
90
88
86
84
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2


asym_sam1_dit_correction_mean vs run
χ² / ndf 32.07 / 30
p0 192 ± 539.3
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 36.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.02722
Std Dev 1.017
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_dit_correction_rms vs run
χ² / ndf 1109 / 30
p0 294 ± 0.3813
320
310
300
290
280
270
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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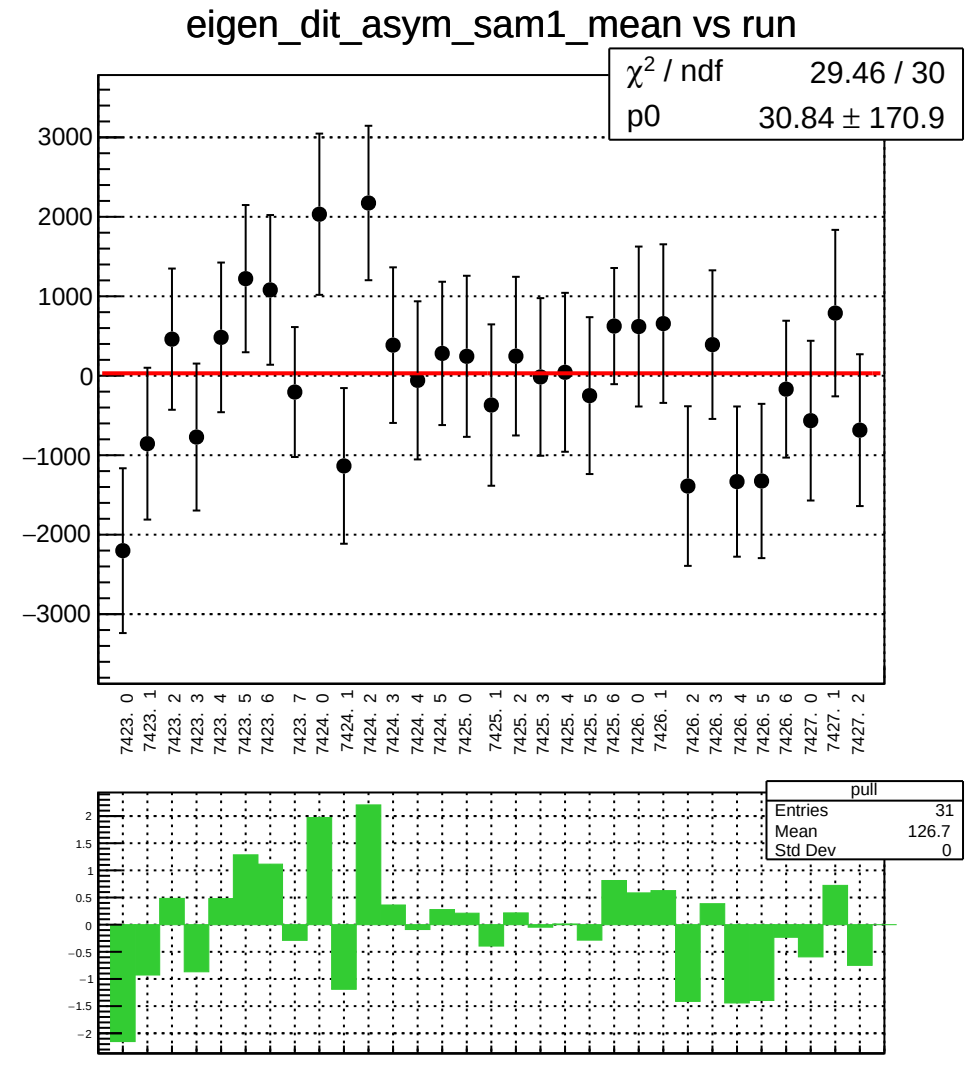
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_dit_asym_sam1_mean vs run
χ² / ndf 29.46 / 30
p0 30.84 ± 170.9
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
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7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
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pull
Entries 31
Mean 126.7
Std Dev 0
2
1.5
1
0.5
0
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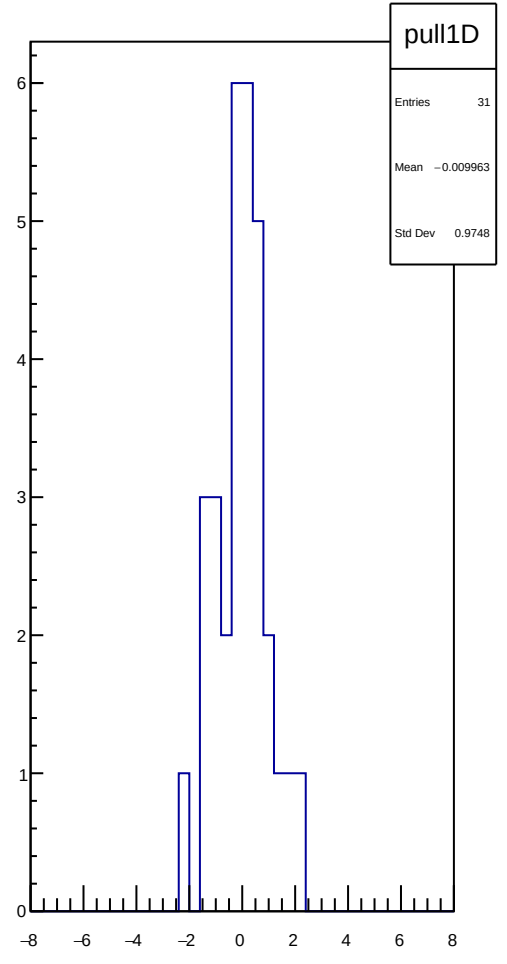
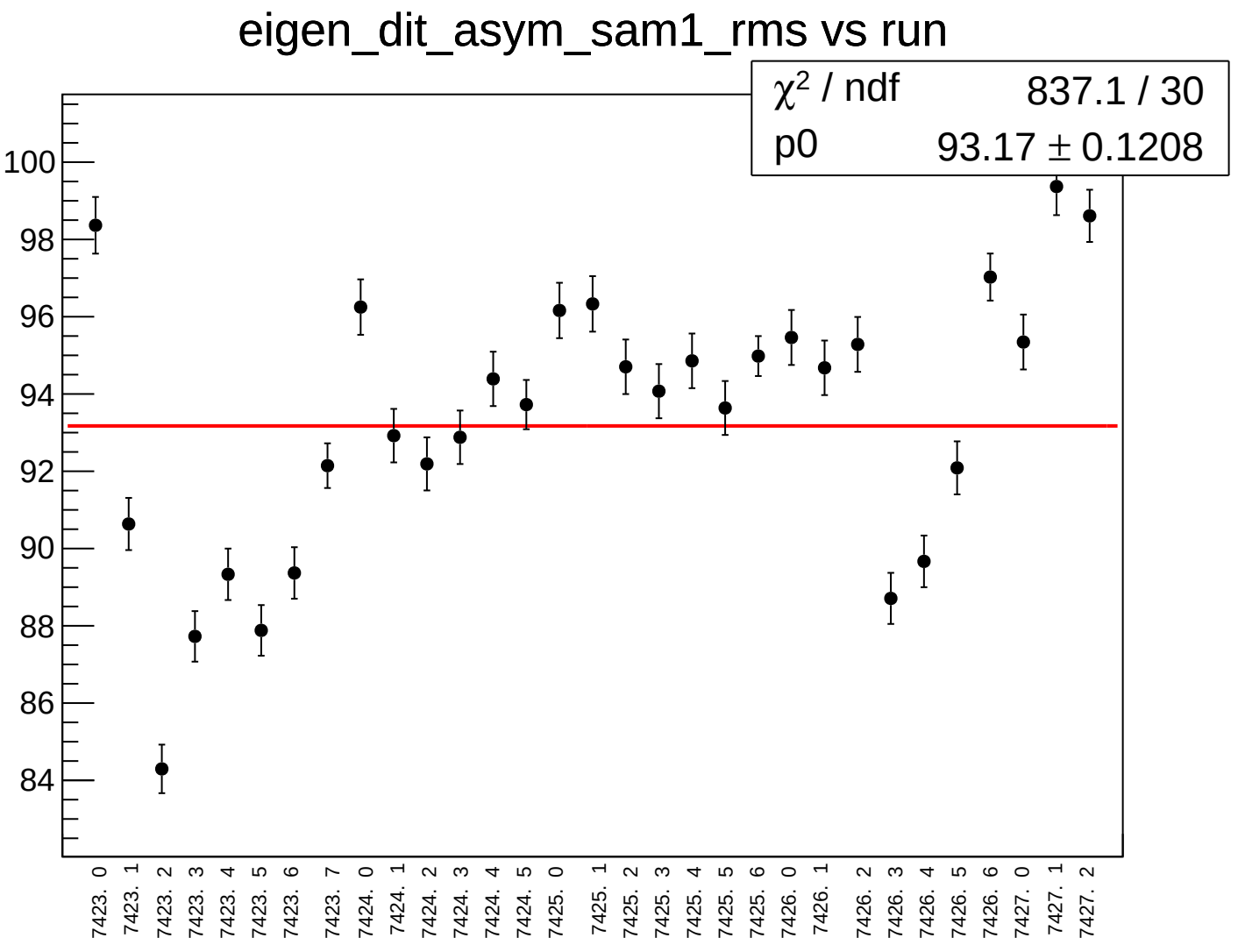
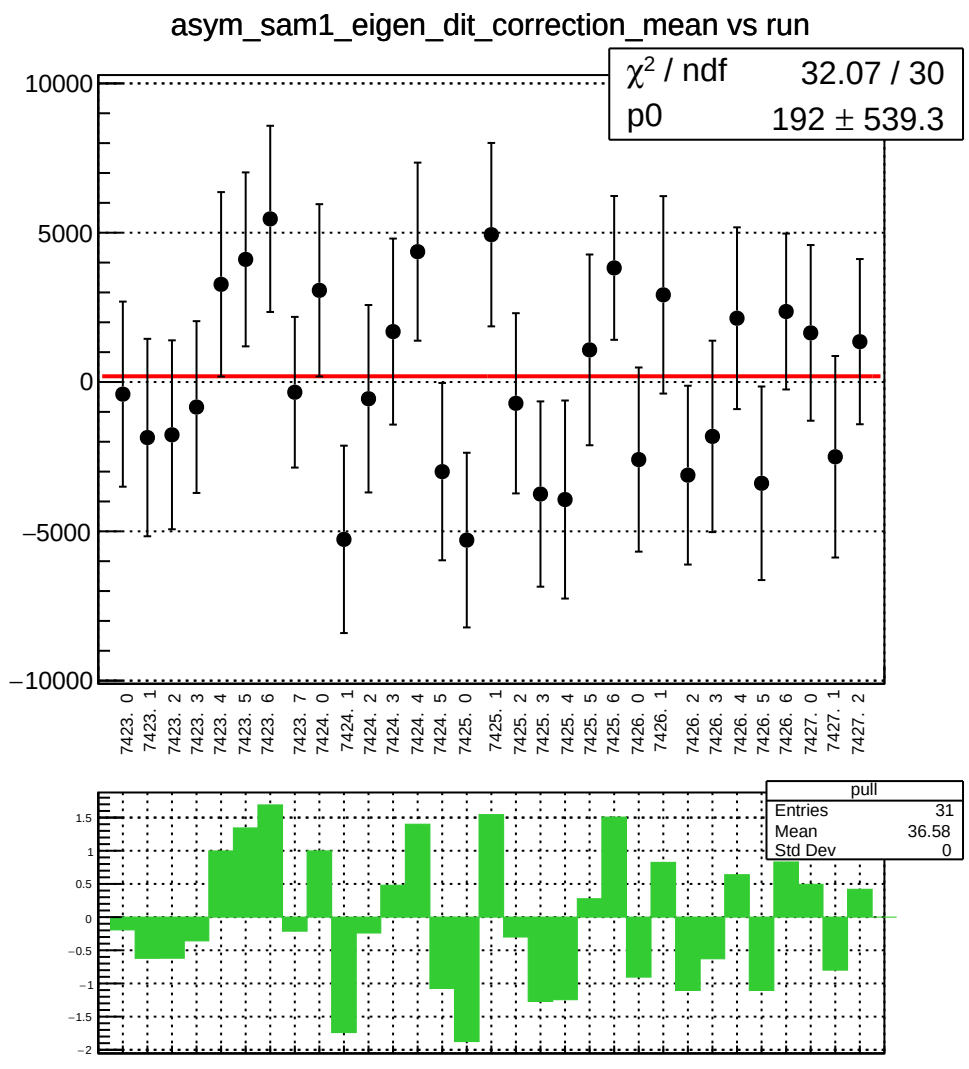
−1
−1.5
−2


pull1D
Entries 31
Mean −0.009963
Std Dev 0.9748
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 837.1 / 30
p0 93.17 ± 0.1208
100
98
96
94
92
90
88
86
84
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 32.07 / 30
p0 192 ± 539.3
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
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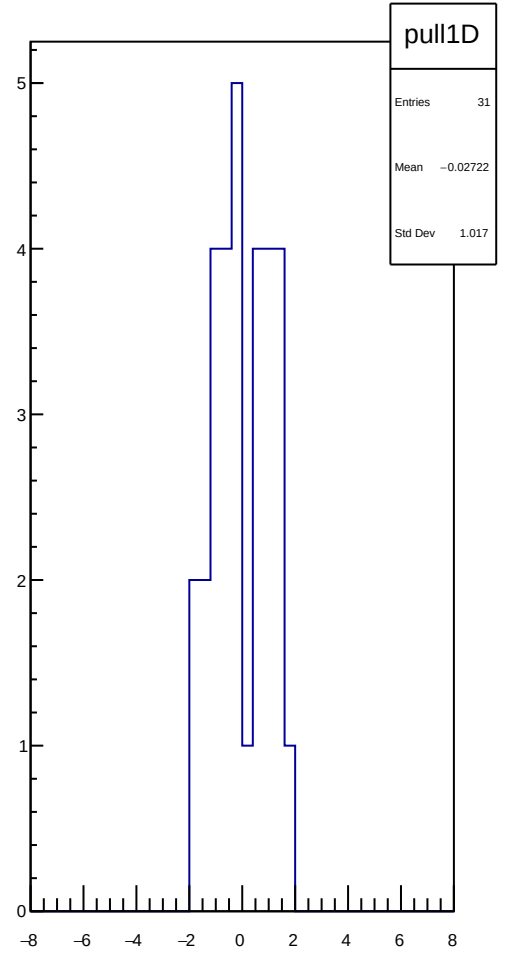
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 36.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.02722
Std Dev 1.017
5
4
3
2
1
0
−8
−6
−4
−2
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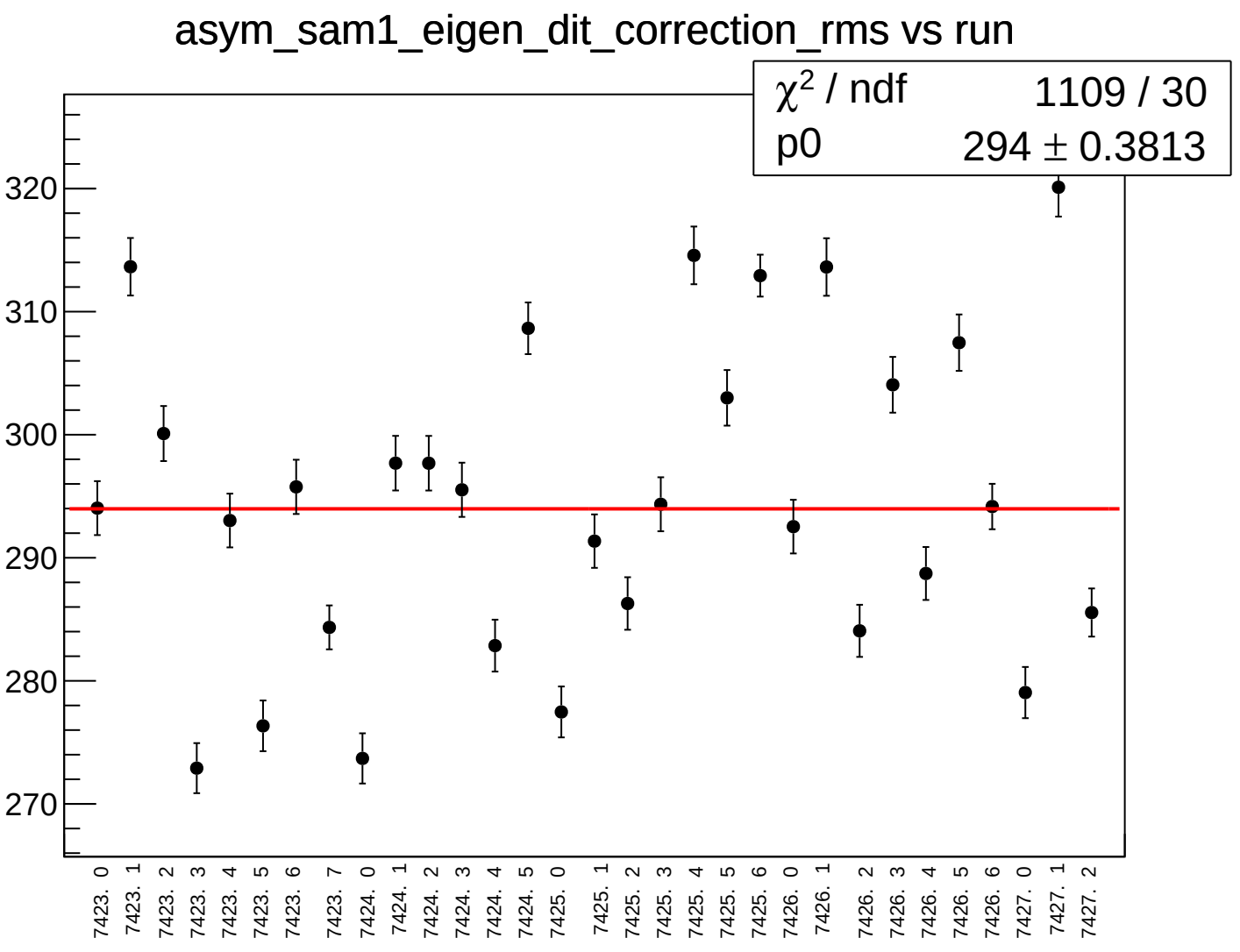
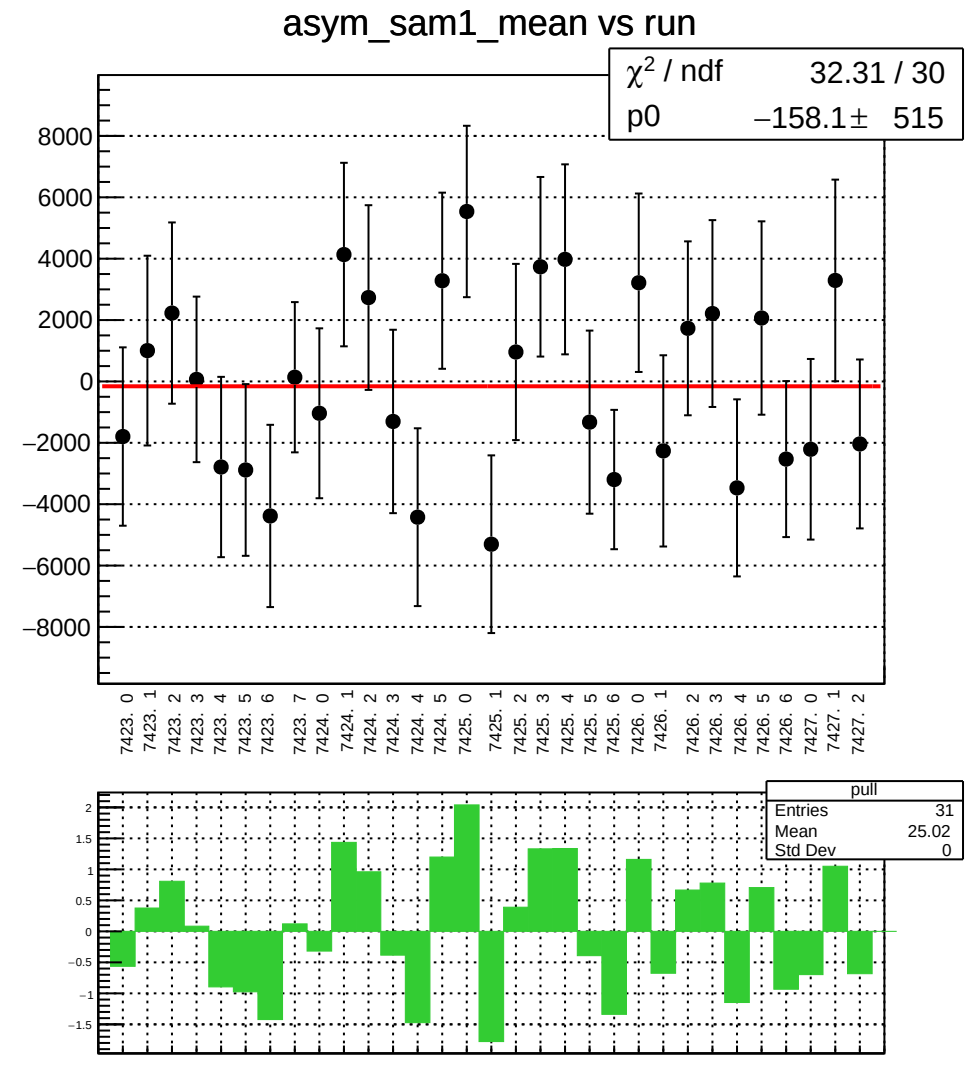
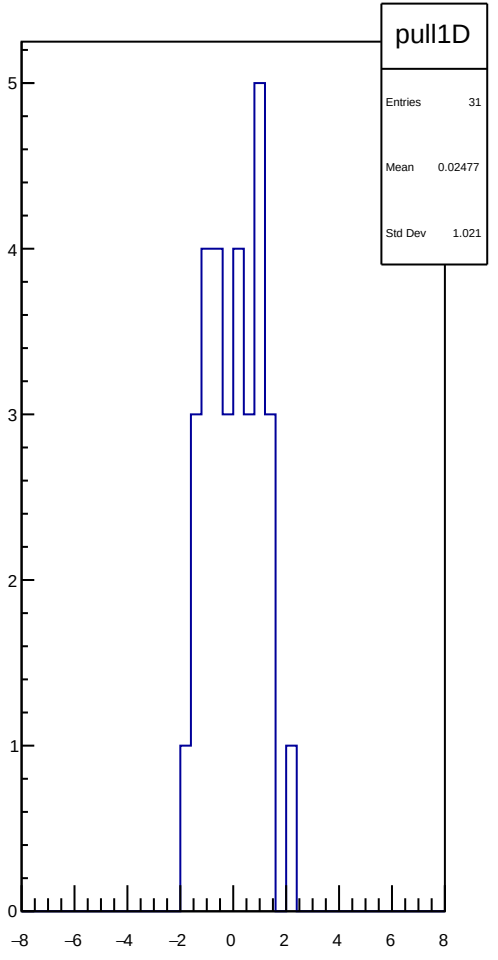
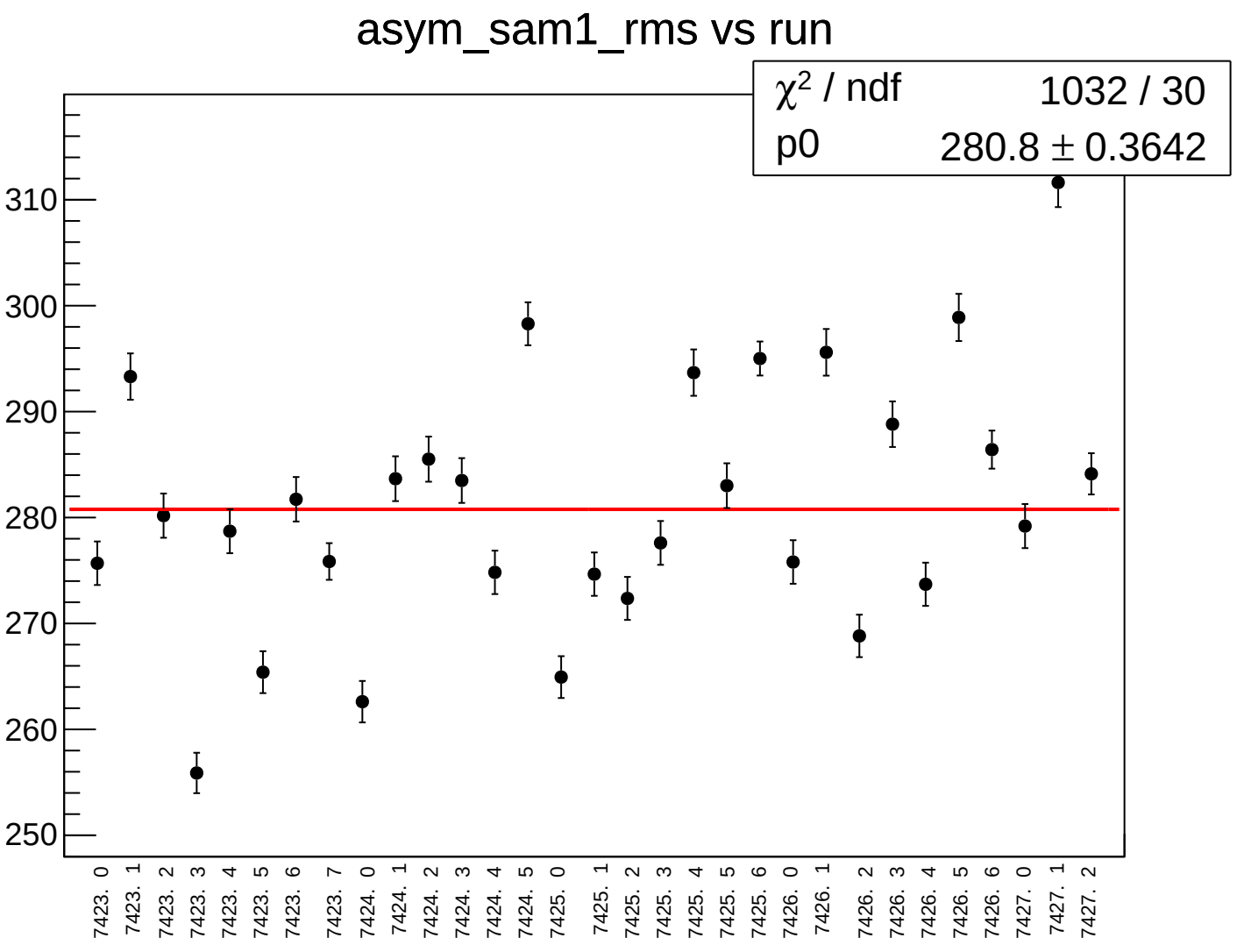
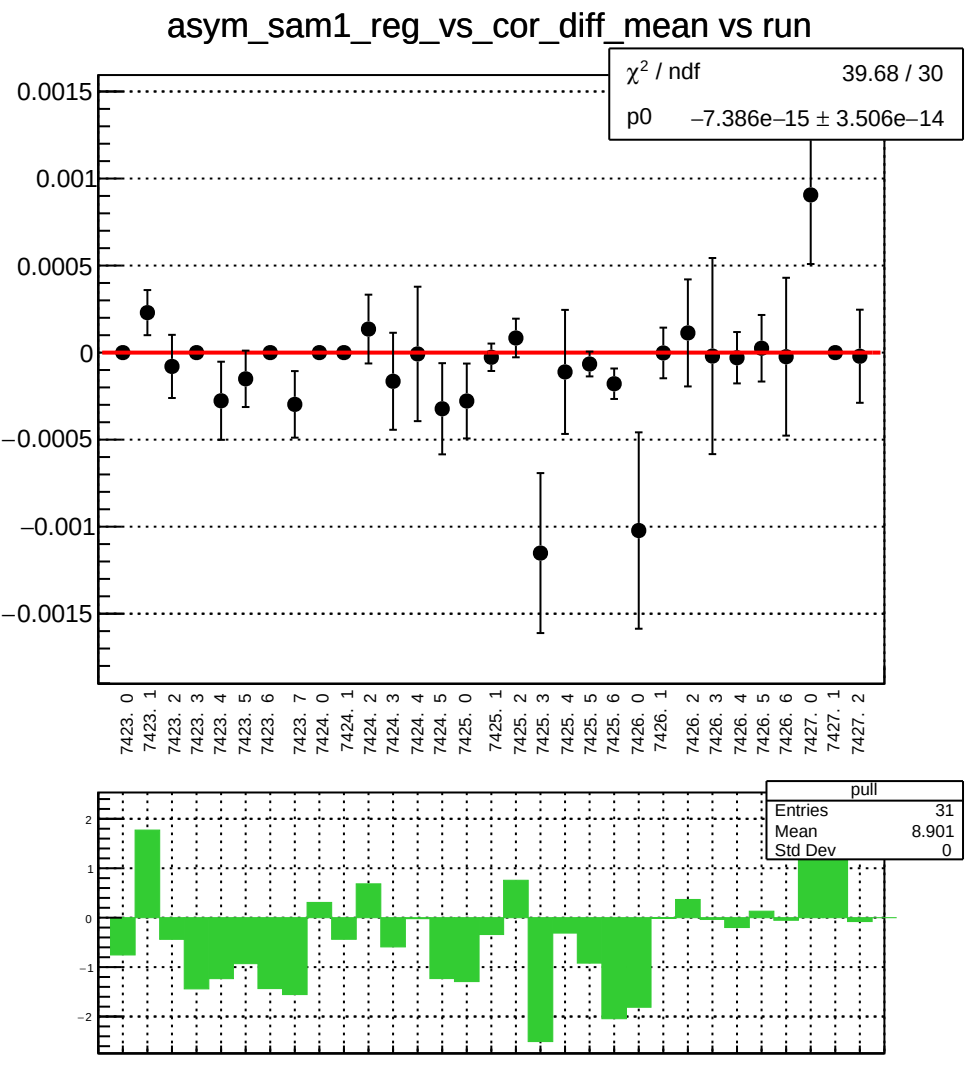
2
4
6
8

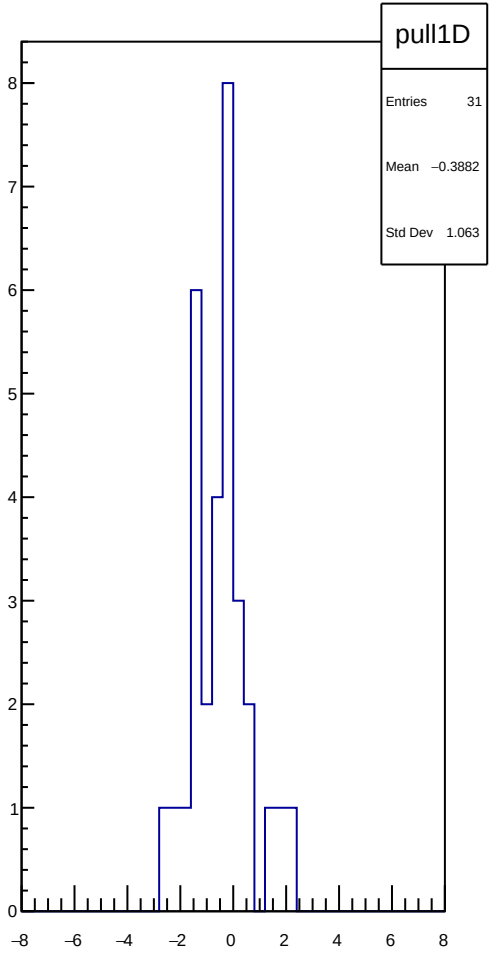

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1109 / 30
p0 294 ± 0.3813
320
310
300
290
280
270
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

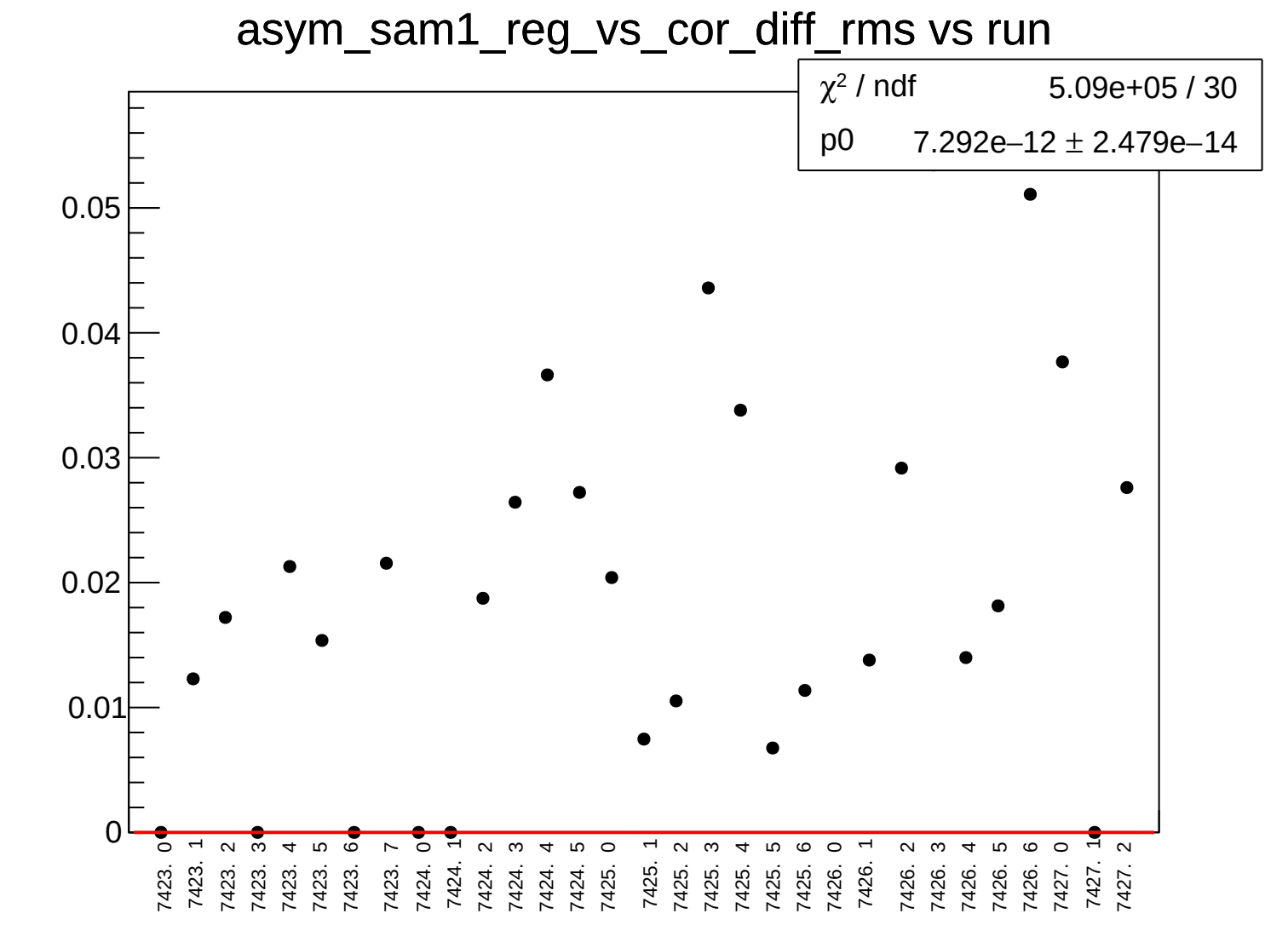

asym_sam1_mean vs run
χ² / ndf 32.31 / 30
p0 −158.1± 515
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 25.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

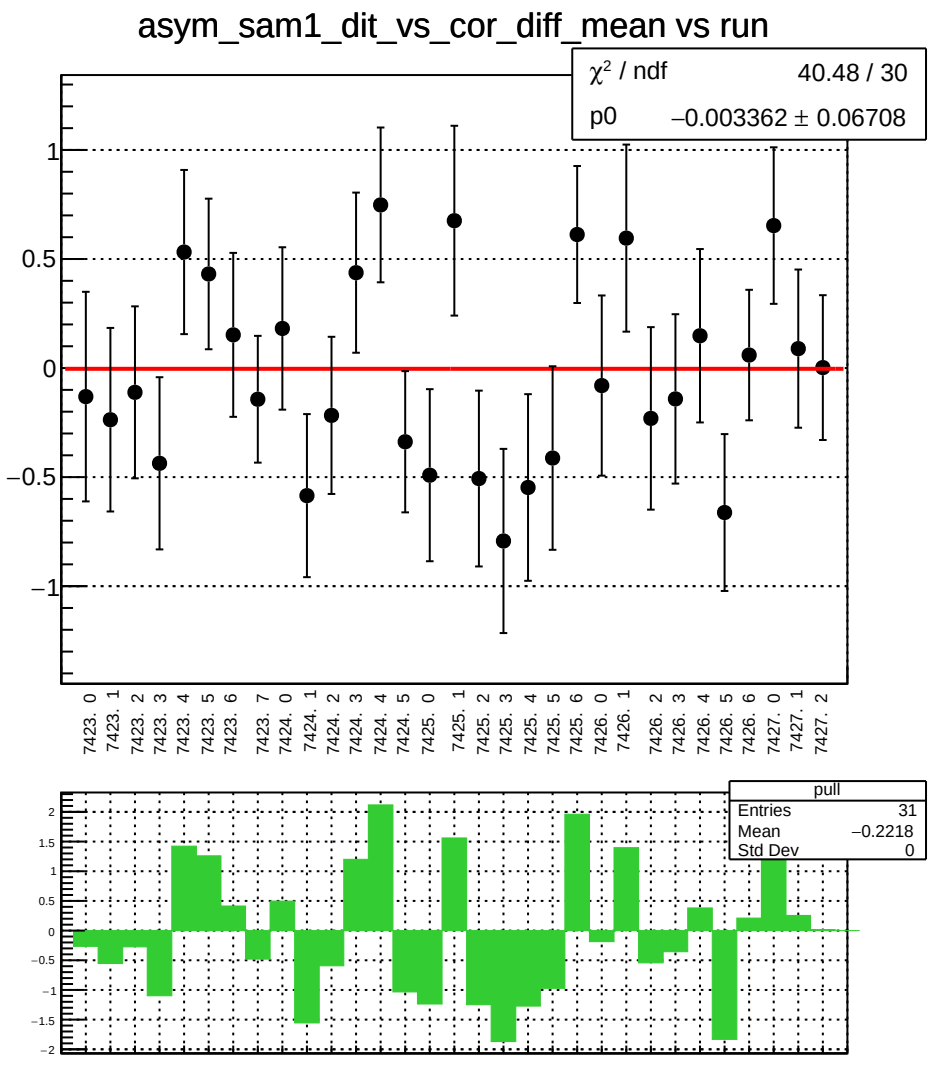

pull1D
Entries 31
Mean 0.02477
Std Dev 1.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

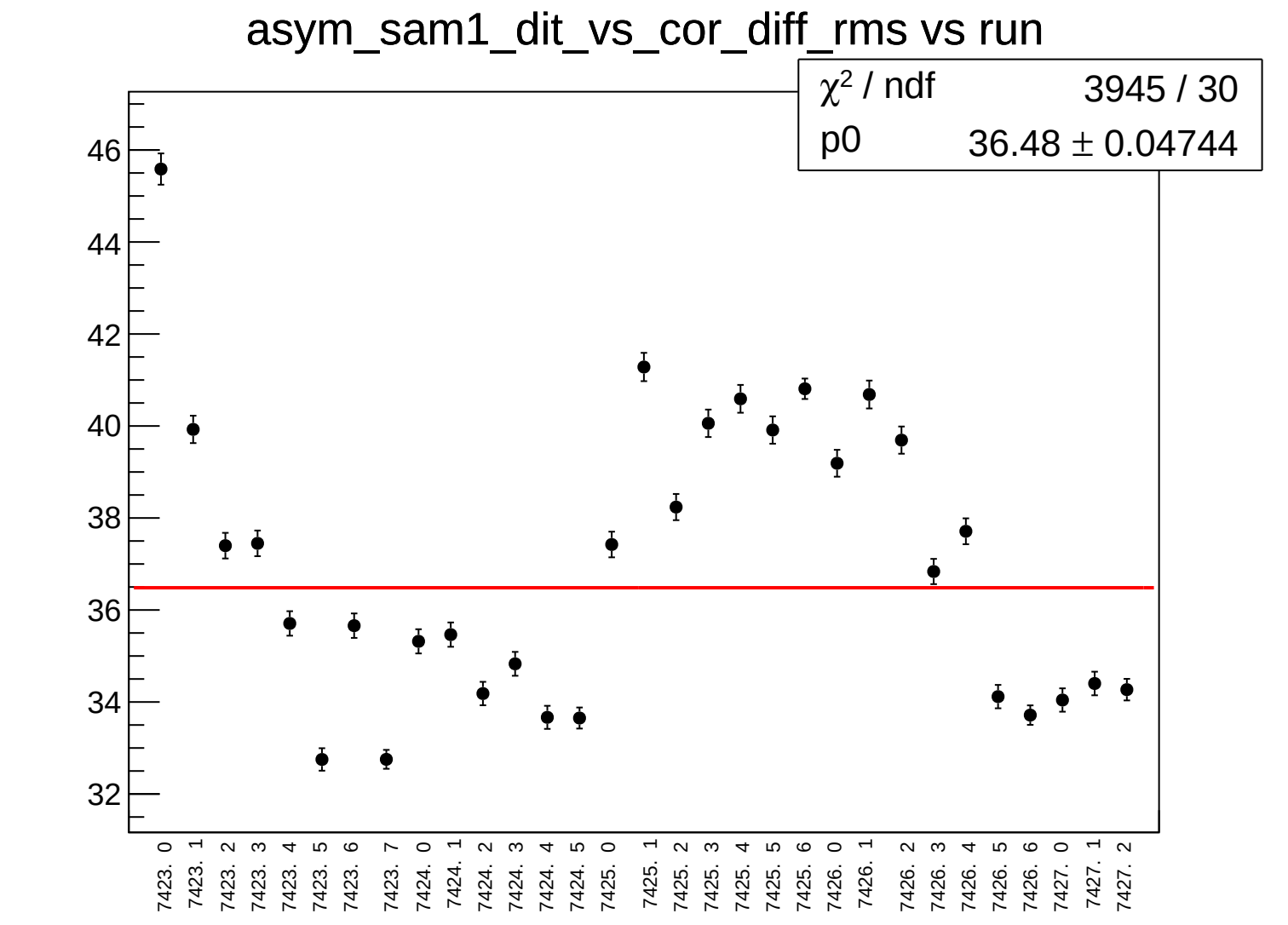

asym_sam1_rms vs run
χ² / ndf 1032 / 30
p0 280.8 ± 0.3642
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

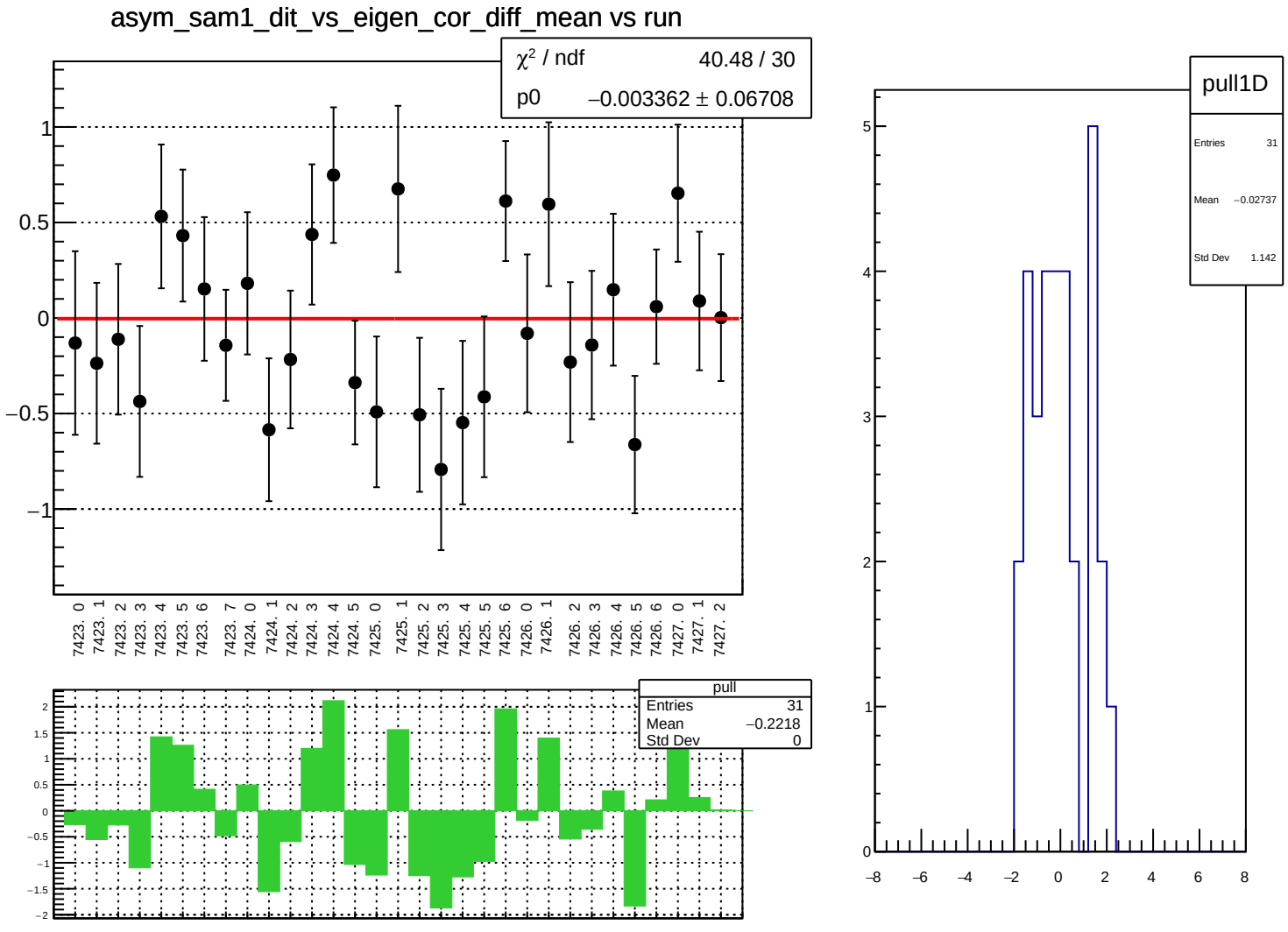

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 39.68 / 30
p0 −7.386e−15 ± 3.506e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.901
Std Dev 0

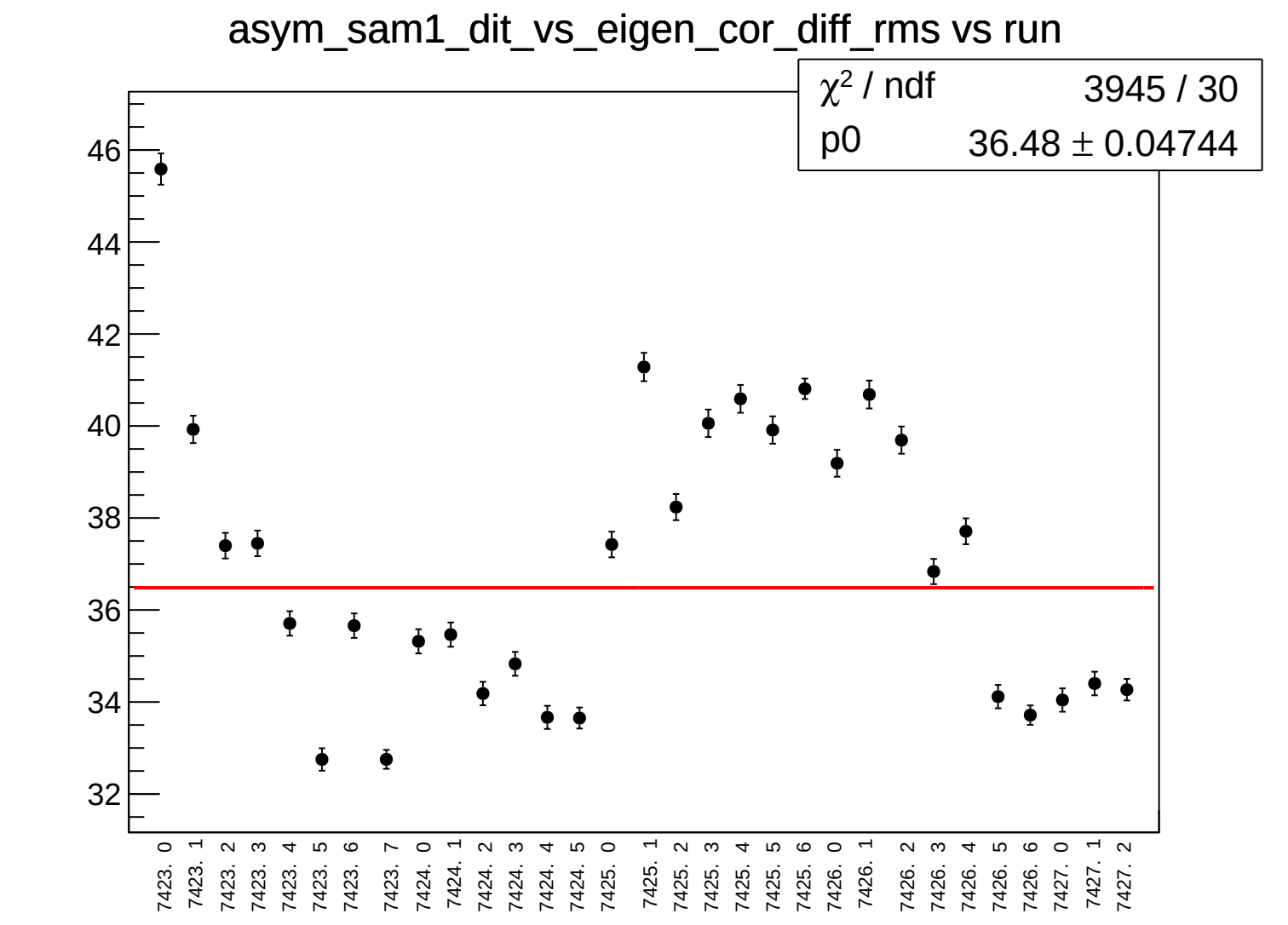

pull1D
Entries 31
Mean −0.3882
Std Dev 1.063

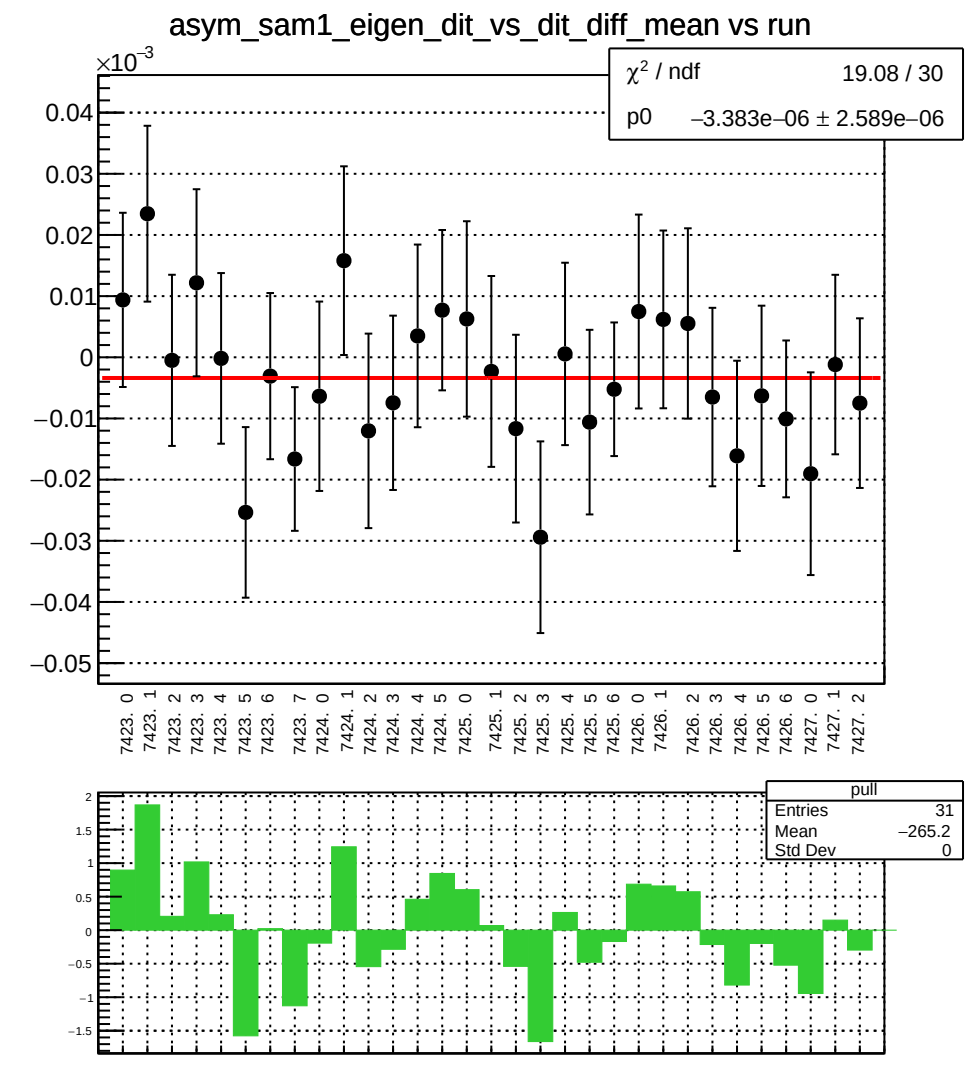

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.09e+05 / 30
p0 7.292e−12 ± 2.479e−14
0.05
0.04
0.03
0.02
0.01
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

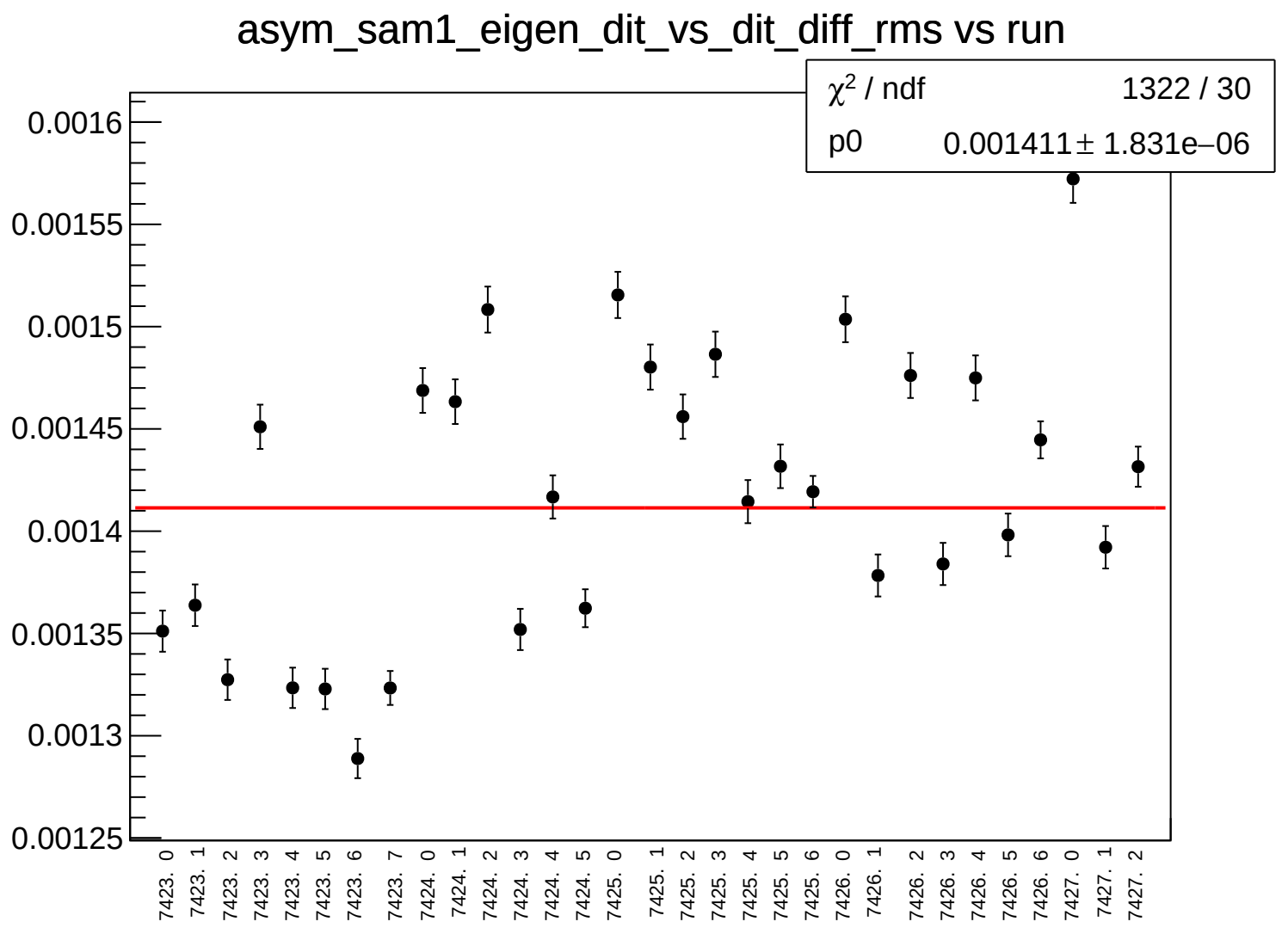

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 40.48 / 30
p0 −0.003362 ± 0.06708
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −0.2218
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.02737
Std Dev 1.142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

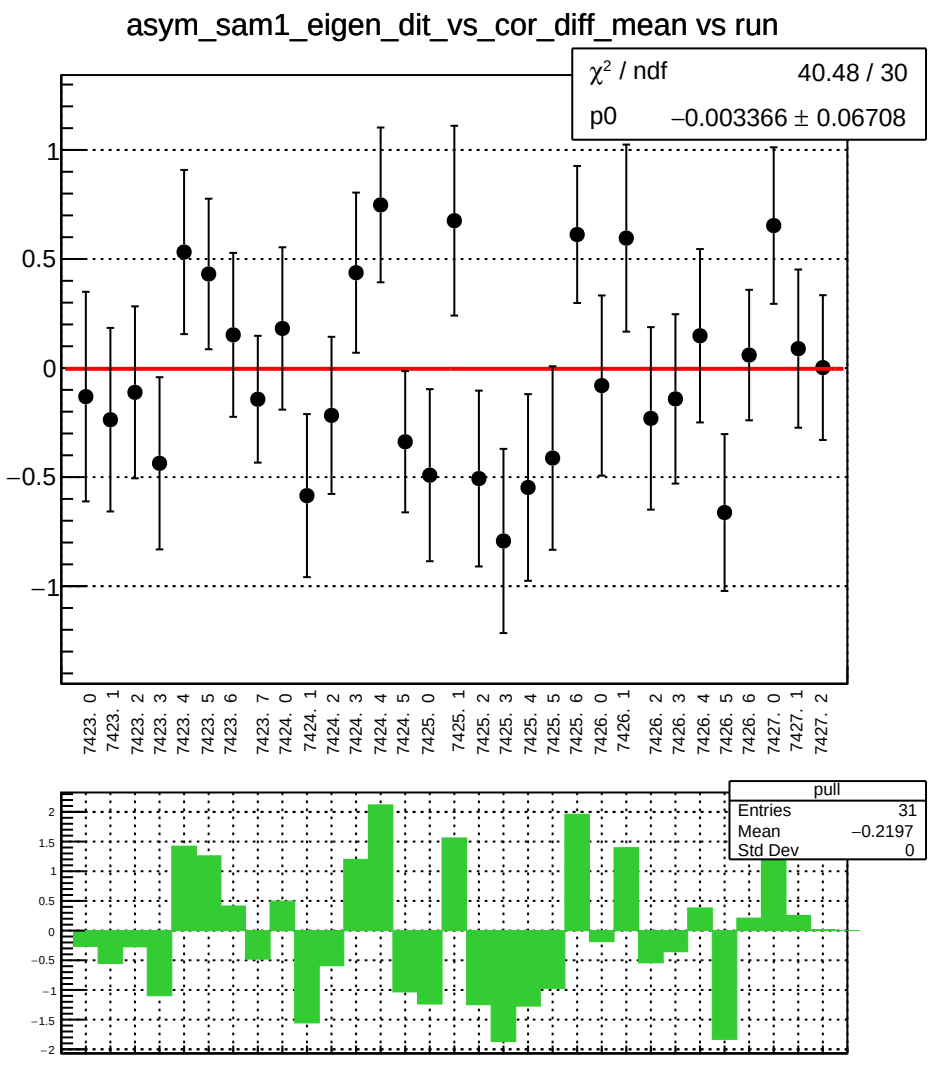

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3945 / 30
p0 36.48 ± 0.04744
46
44
42
40
38
36
34
32
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

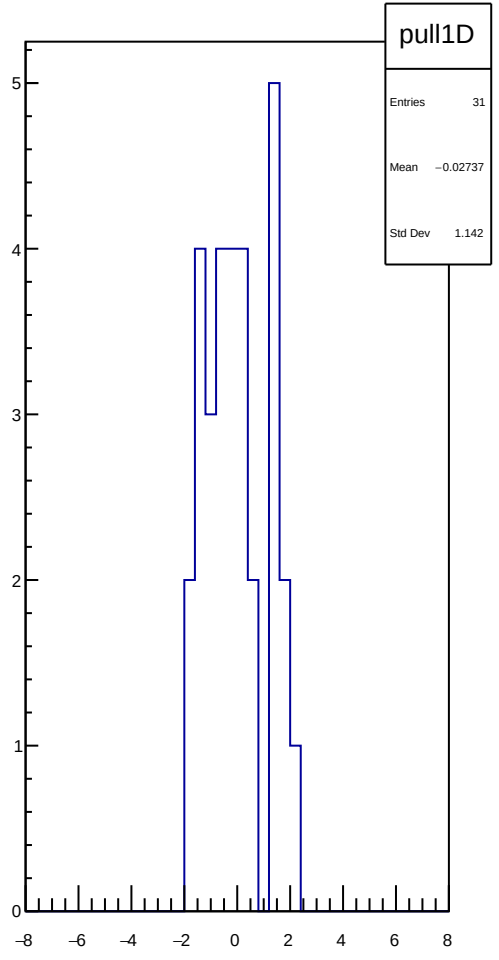

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.48 / 30
p0 −0.003362 ± 0.06708
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −0.2218
Std Dev 0
pull1D
Entries 31
Mean −0.02737
Std Dev 1.142

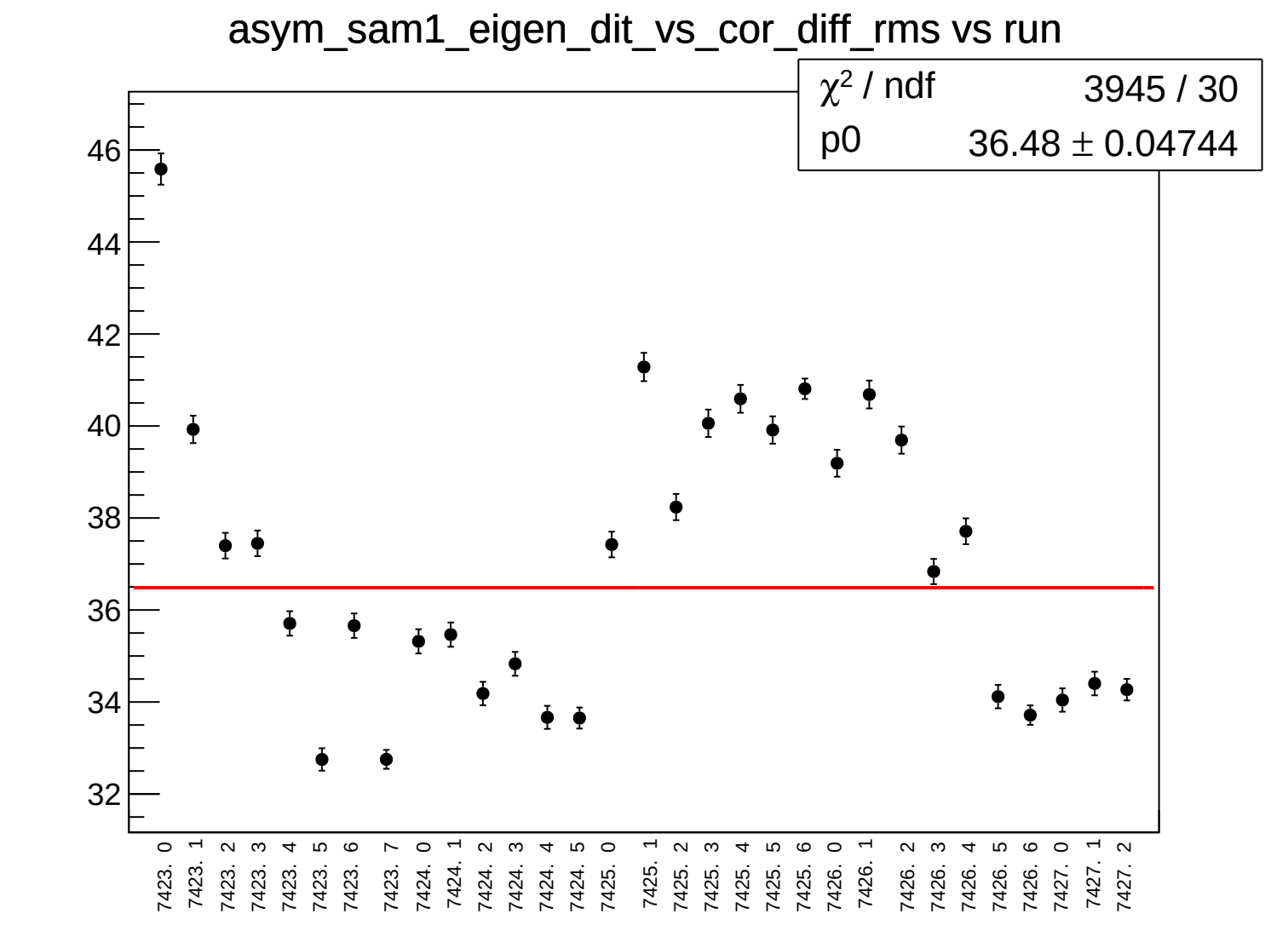

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3945 / 30
p0 36.48 ± 0.04744
46
44
42
40
38
36
34
32
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.08 / 30
p0 −3.383e−06 ± 2.589e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −265.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.007363
Std Dev 0.7845
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

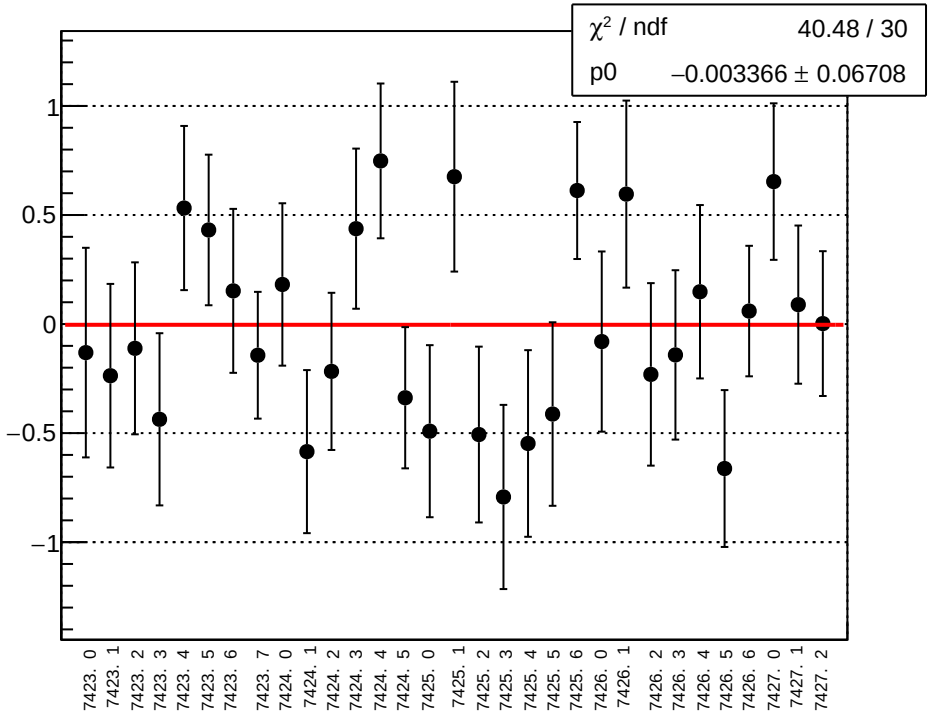

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1322 / 30
p0 0.001411 ± 1.831e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

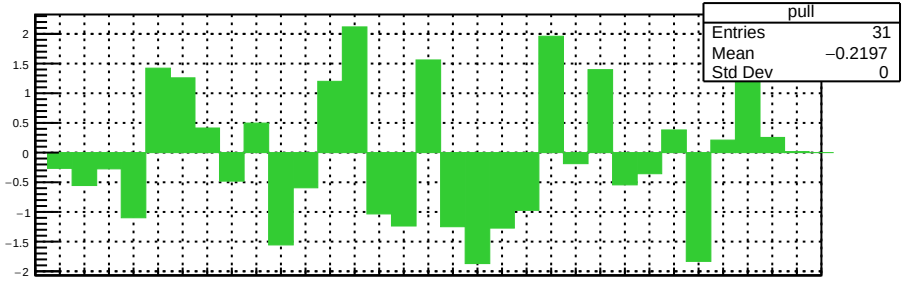

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.48 / 30
p0 −0.003366 ± 0.06708
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −0.2197
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

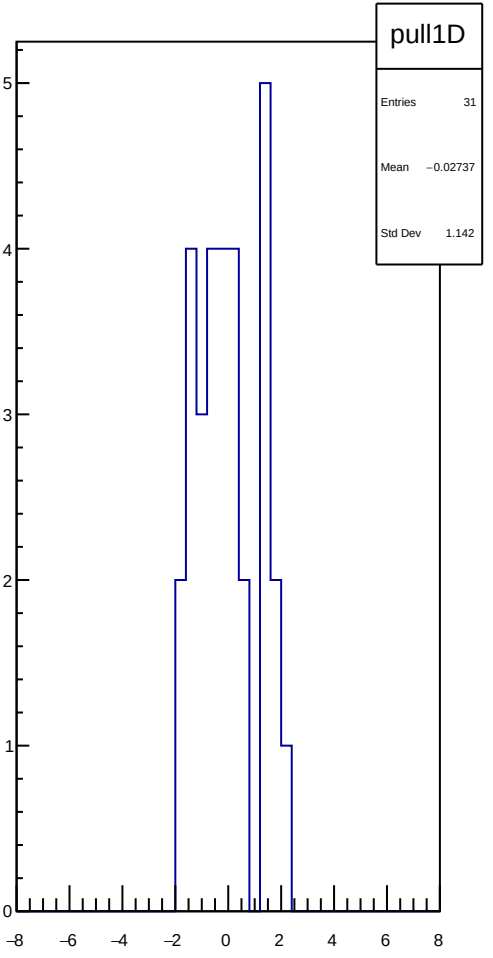

pull1D
Entries 31
Mean −0.02737
Std Dev 1.142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

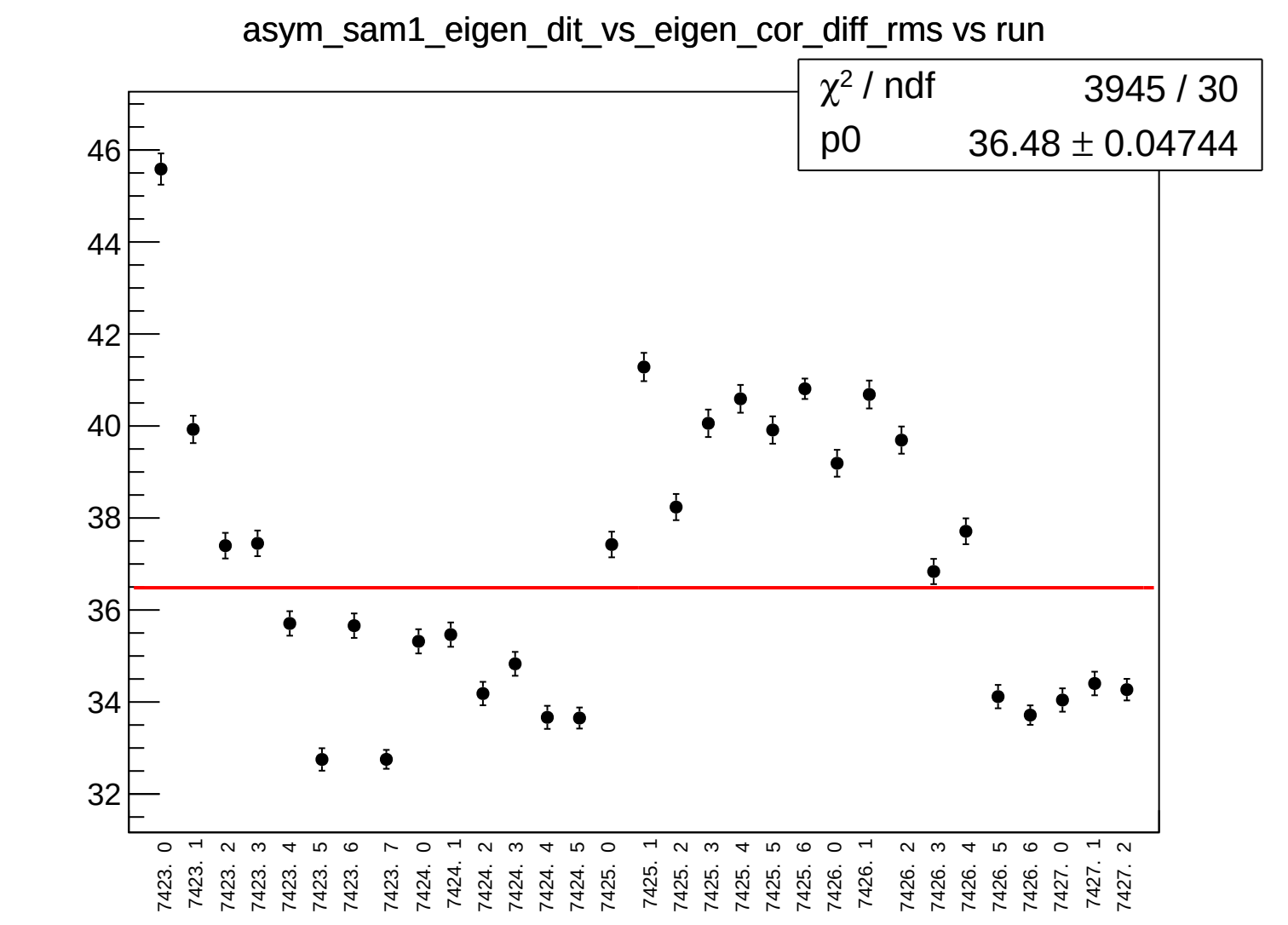

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3945 / 30
p0 36.48 ± 0.04744
46
44
42
40
38
36
34
32
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

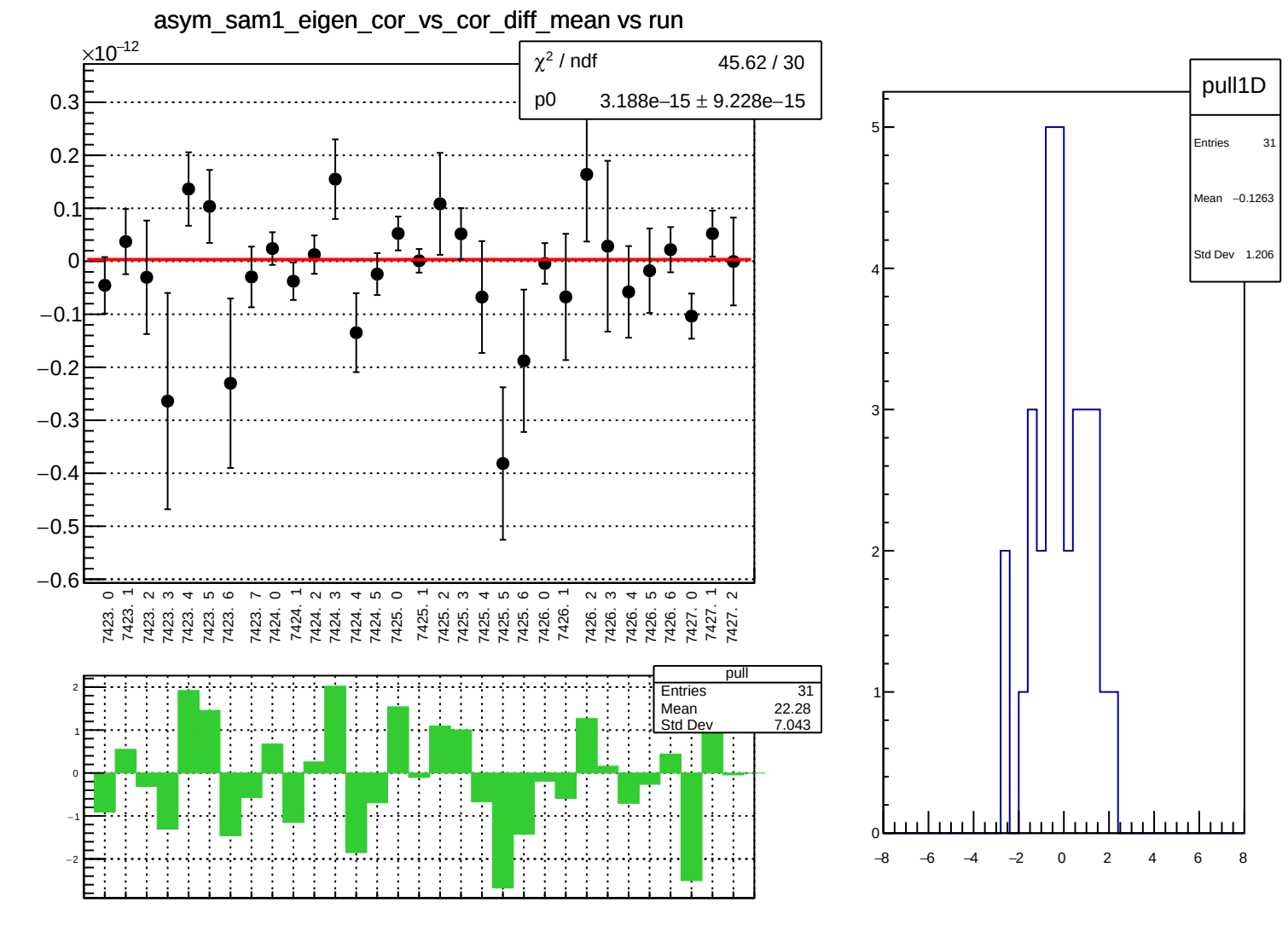
asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run

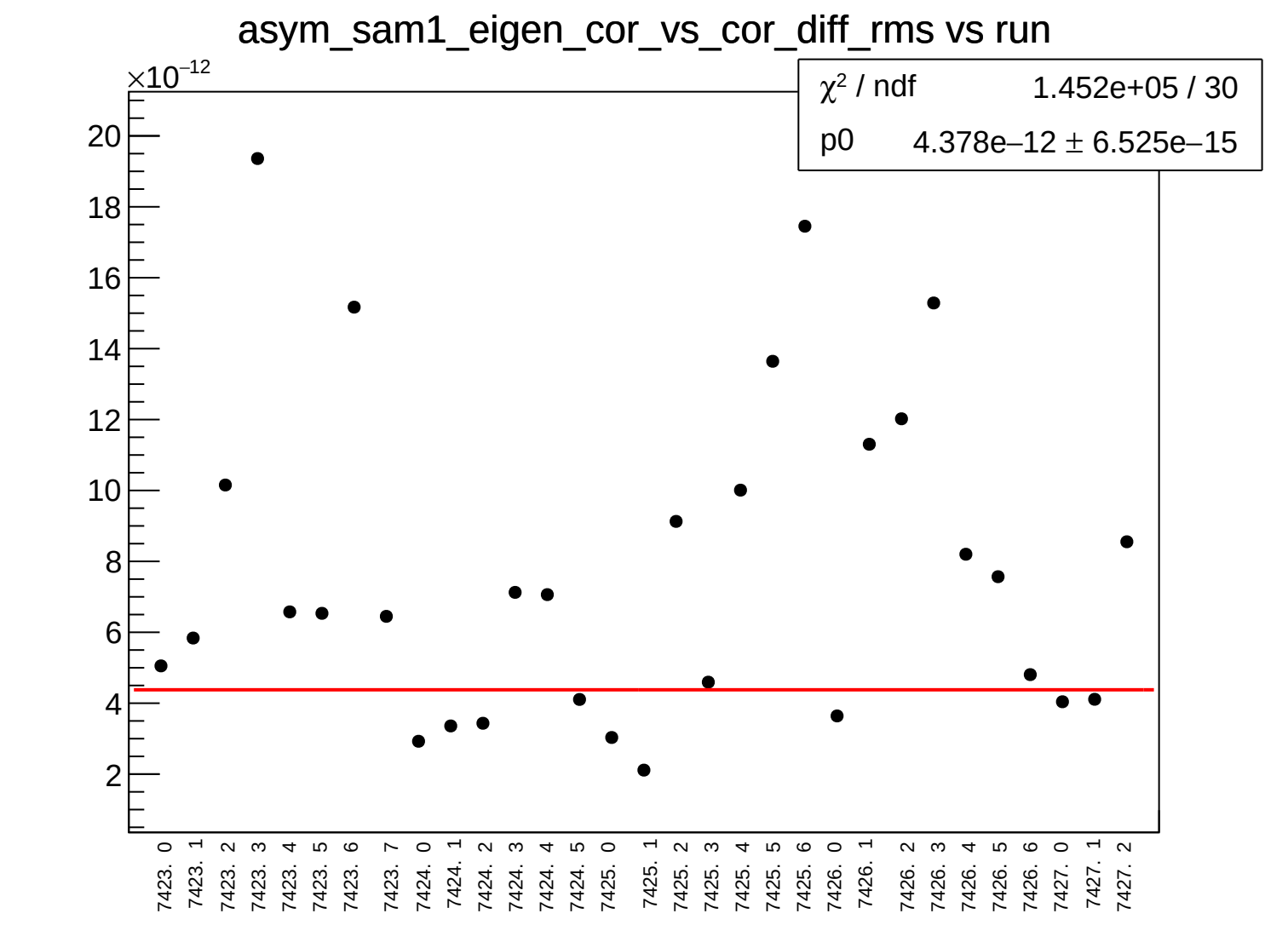


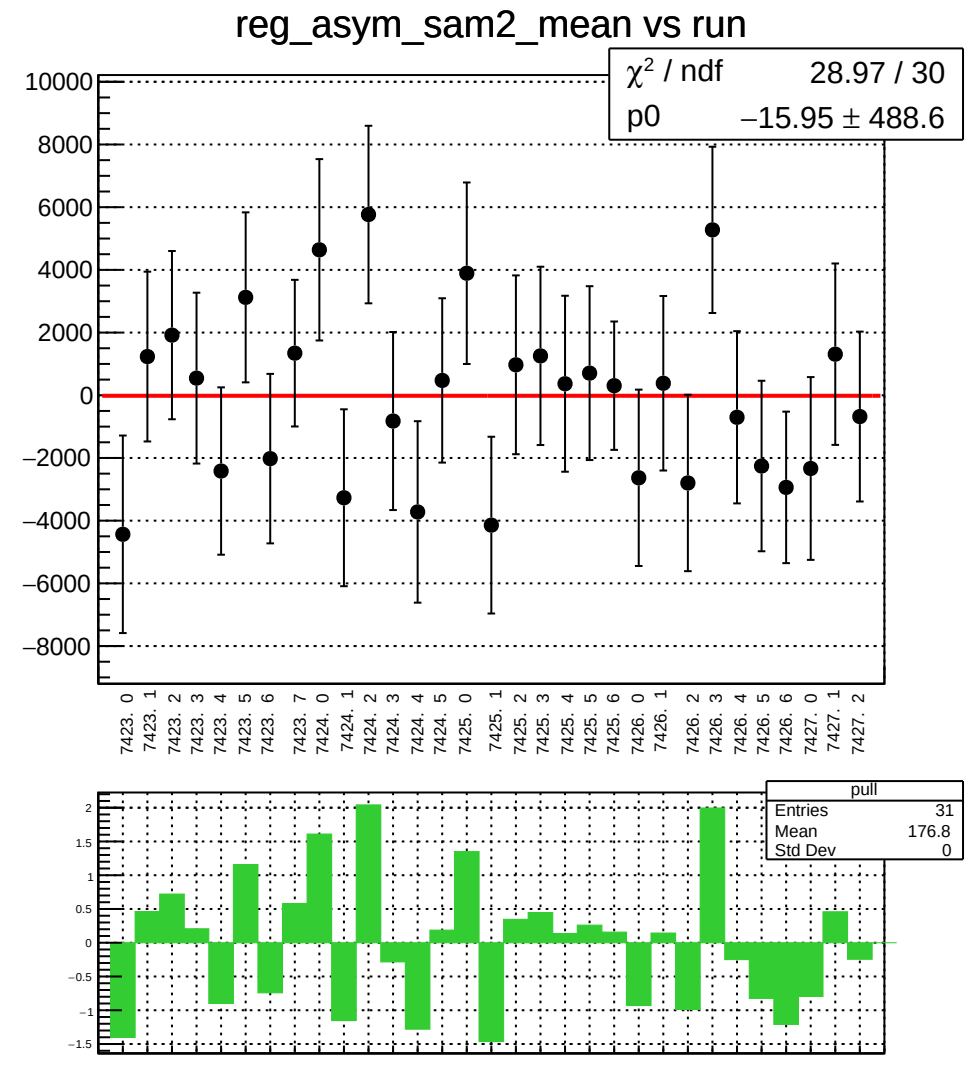


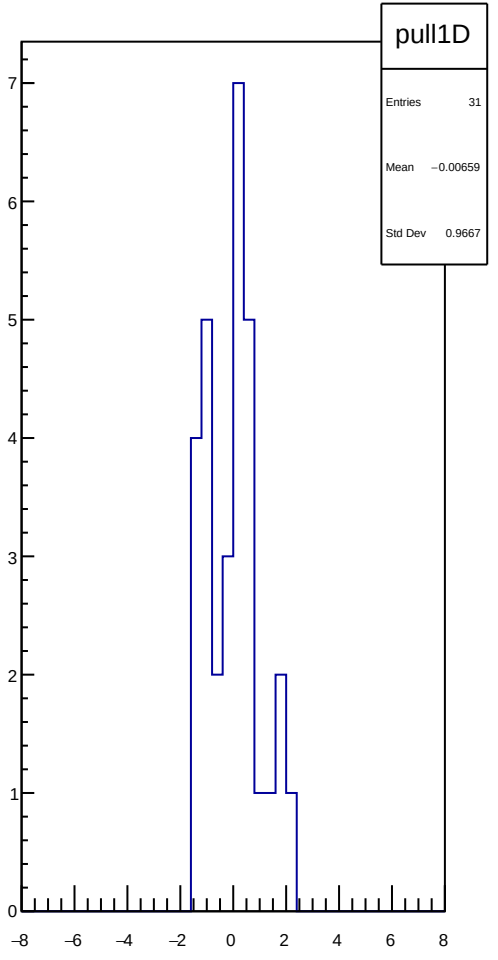


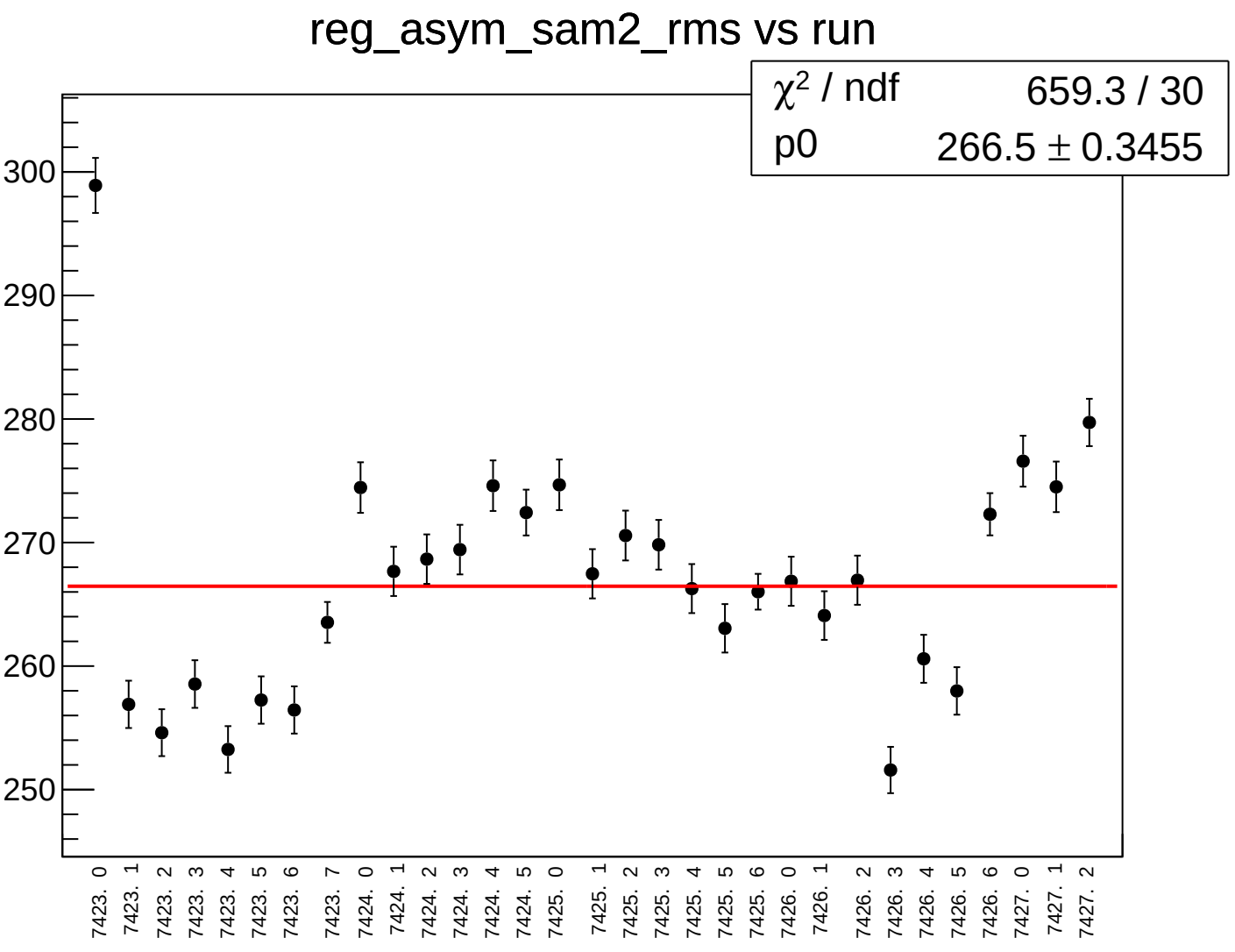

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3945 / 30
p0 36.48 ± 0.04744
46
44
42
40
38
36
34
32
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

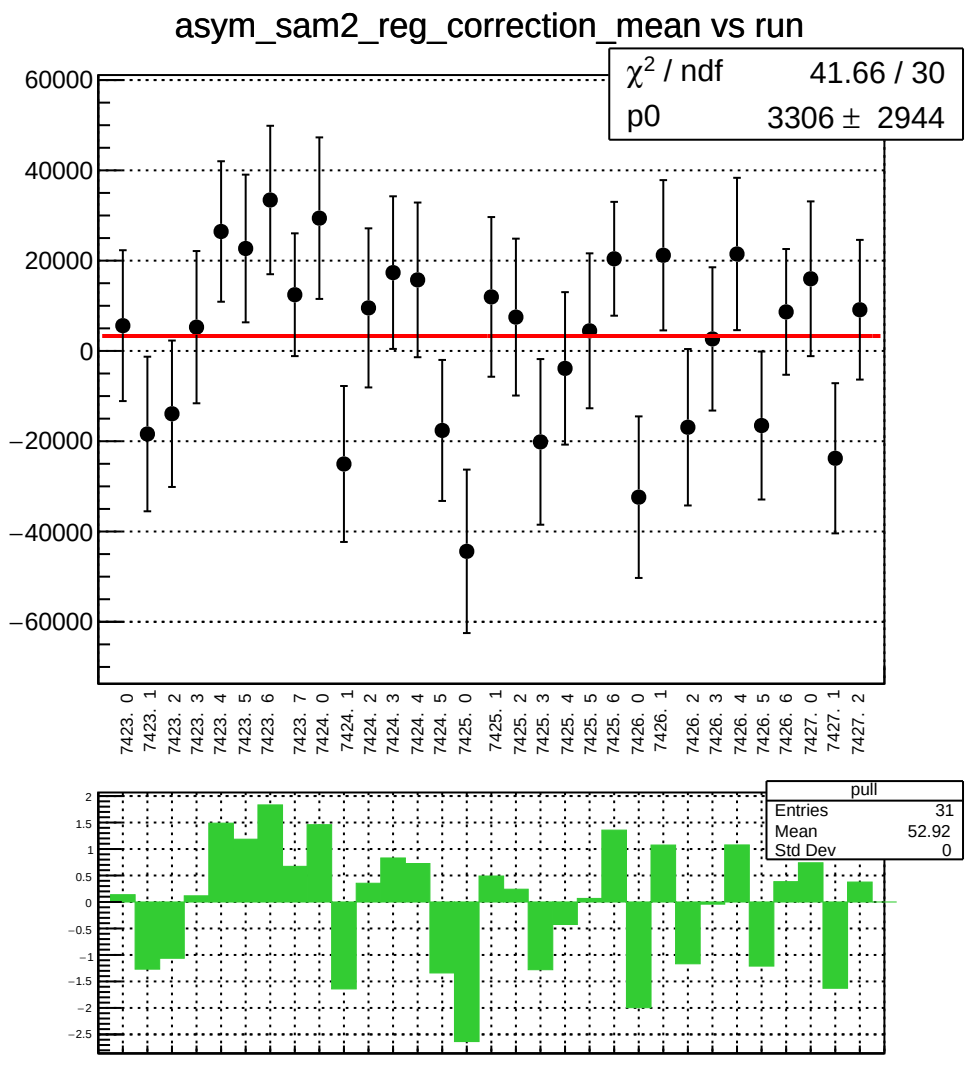

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 45.62 / 30
p0 3.188e−15 ± 9.228e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 22.28
Std Dev 7.043
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.1263
Std Dev 1.206
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

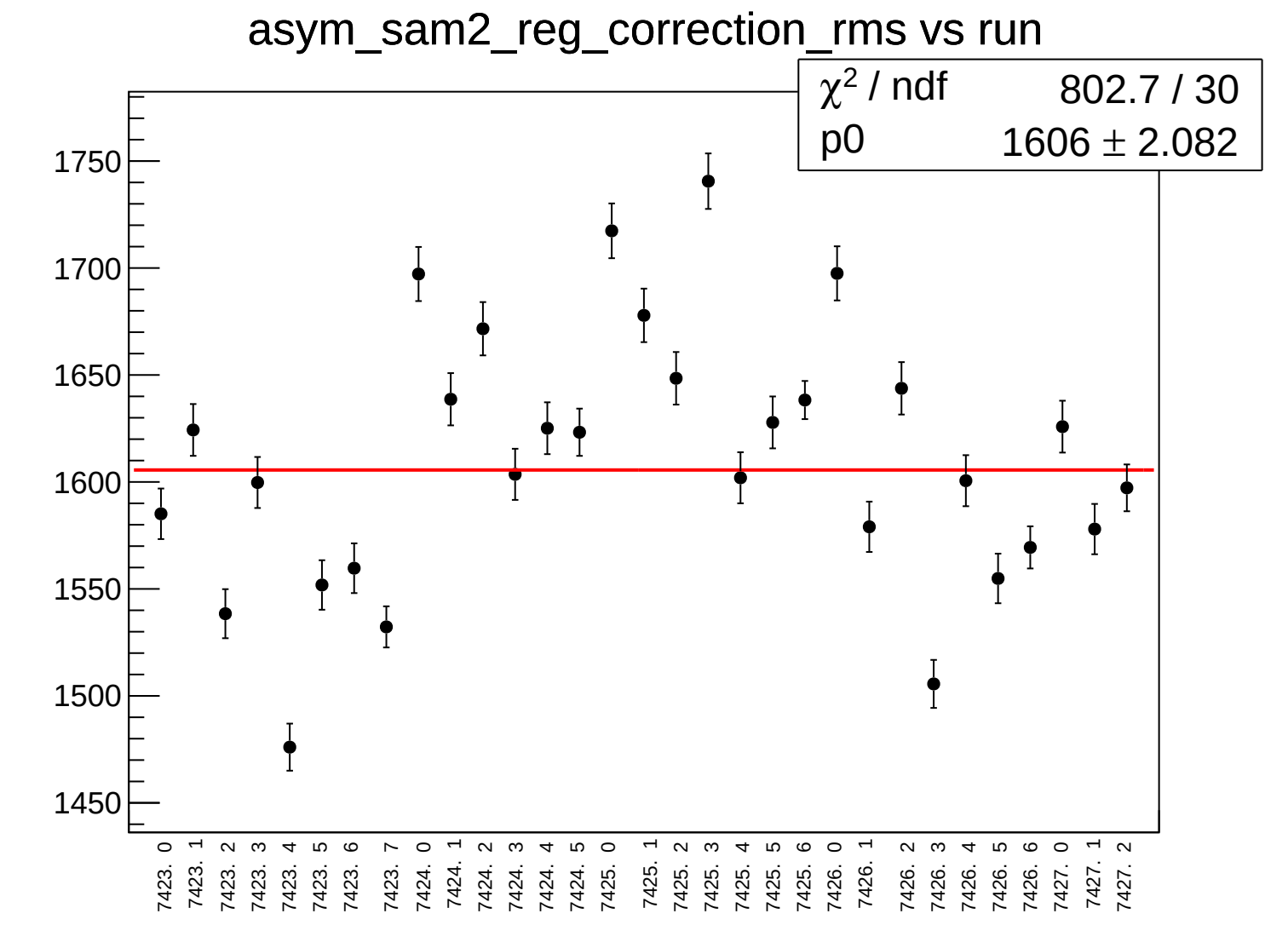

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.452e+05 / 30
p0 4.378e−12 ± 6.525e−15
20
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

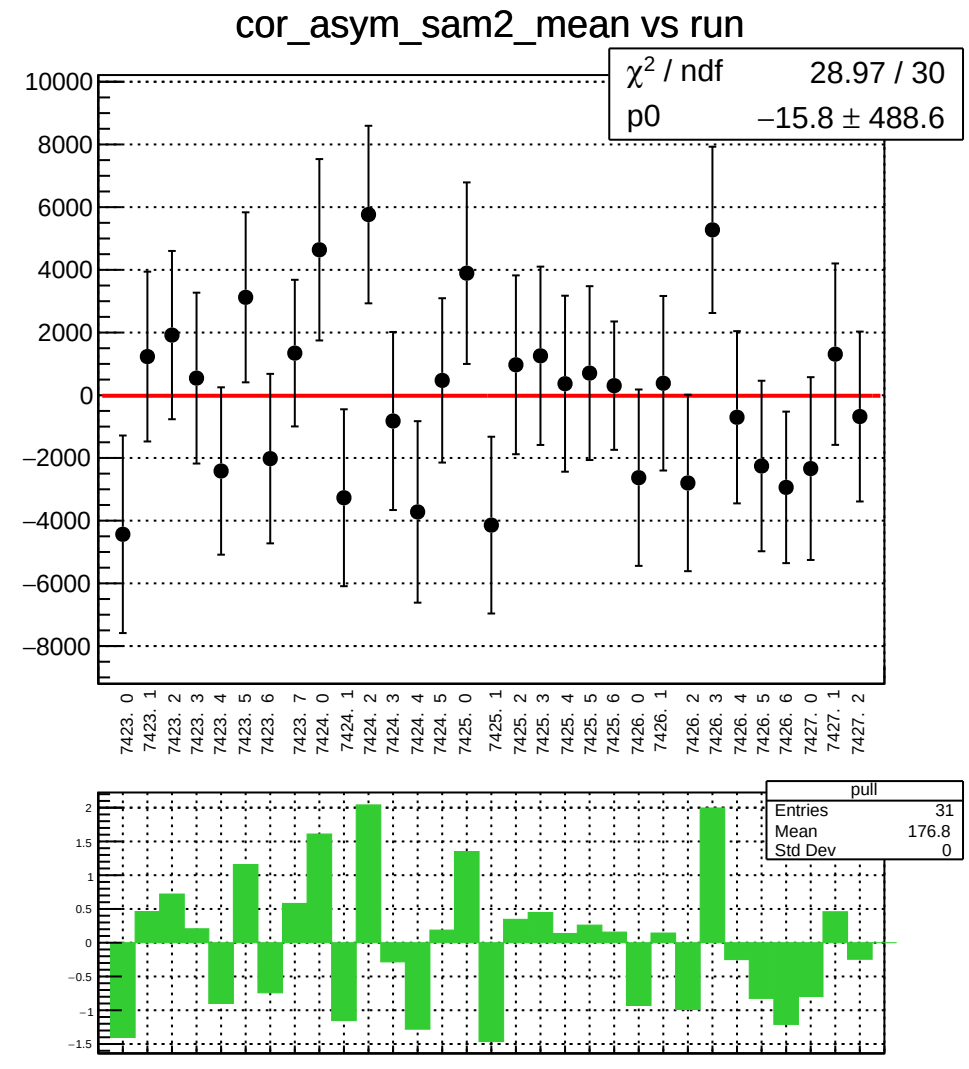

reg_asym_sam2_mean vs run
χ² / ndf 28.97 / 30
p0 −15.95 ± 488.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 176.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

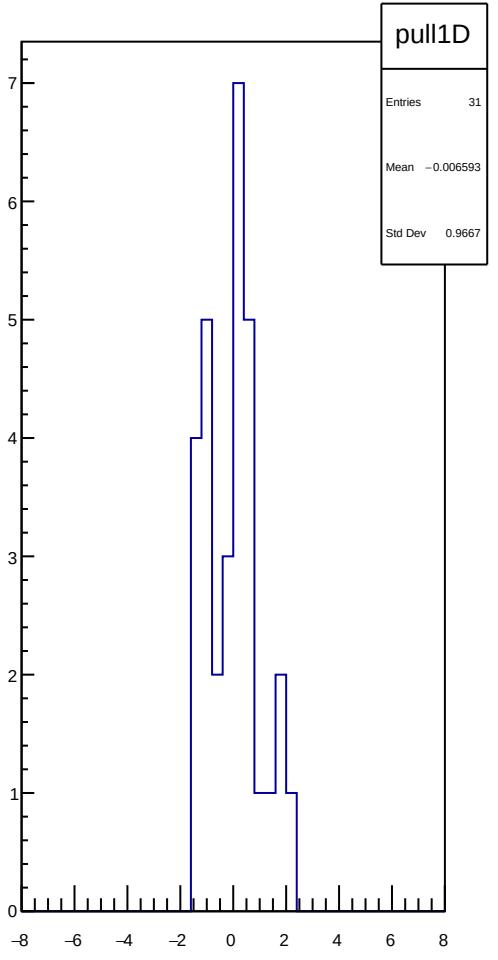

pull1D
Entries 31
Mean −0.00659
Std Dev 0.9667
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

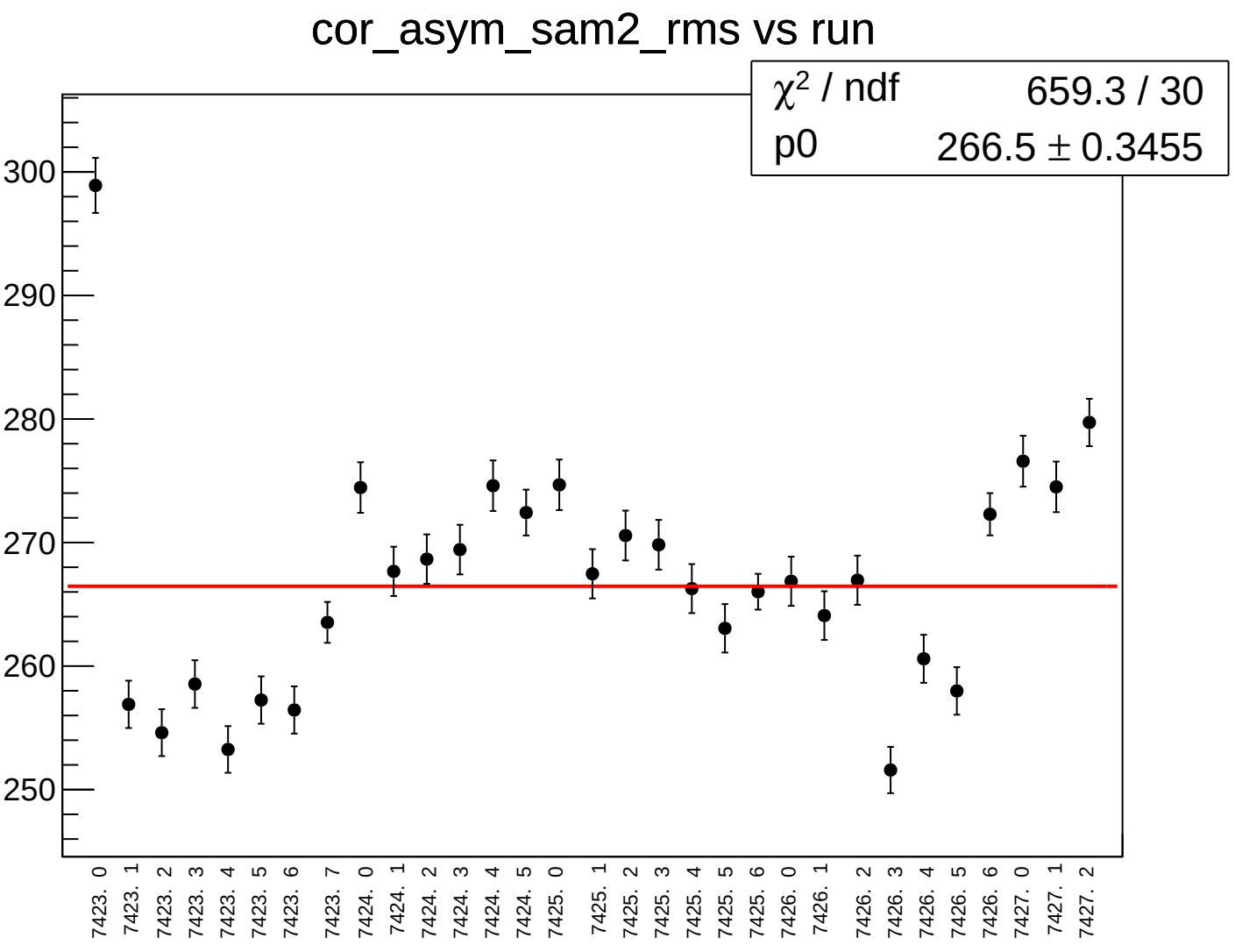

reg_asym_sam2_rms vs run
χ² / ndf 659.3 / 30
p0 266.5 ± 0.3455
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

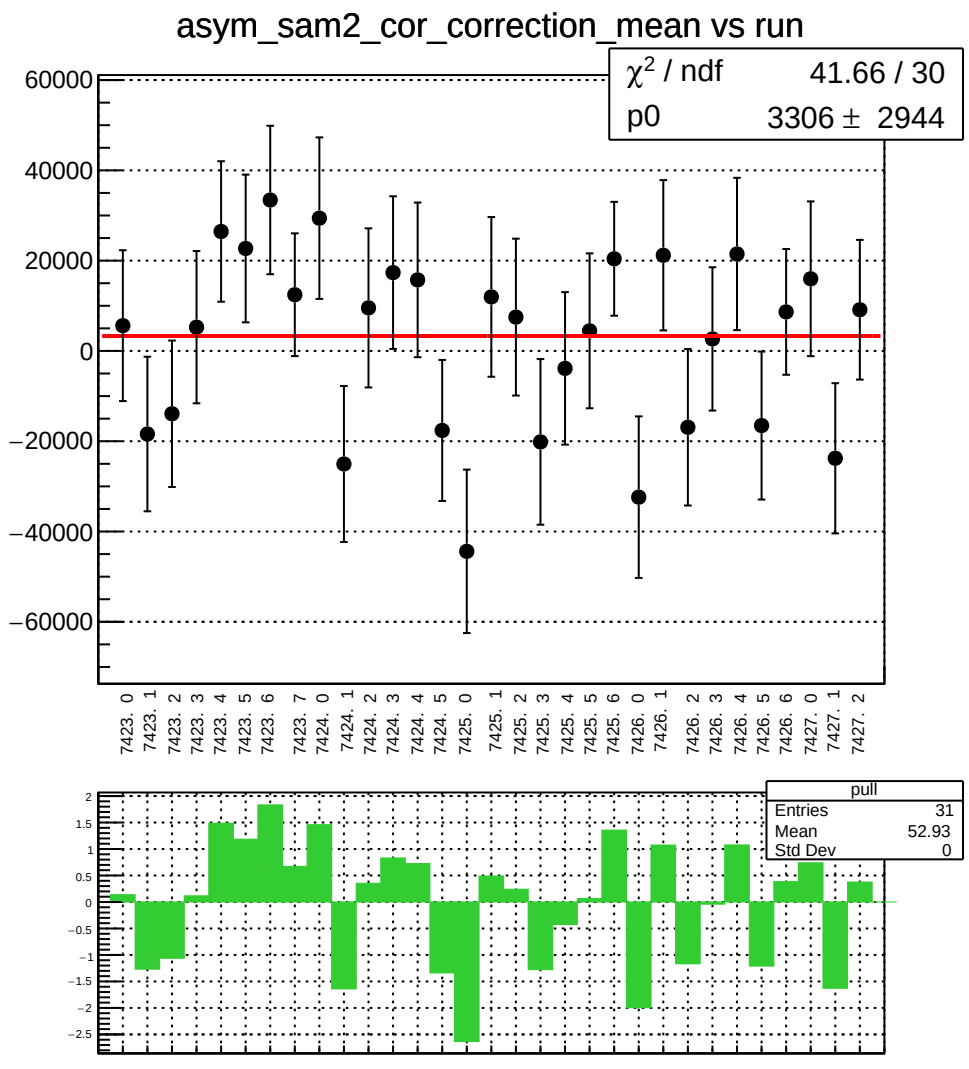

asym_sam2_reg_correction_mean vs run
χ² / ndf 41.66 / 30
p0 3306 ± 2944
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 52.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.03489
Std Dev 1.159
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

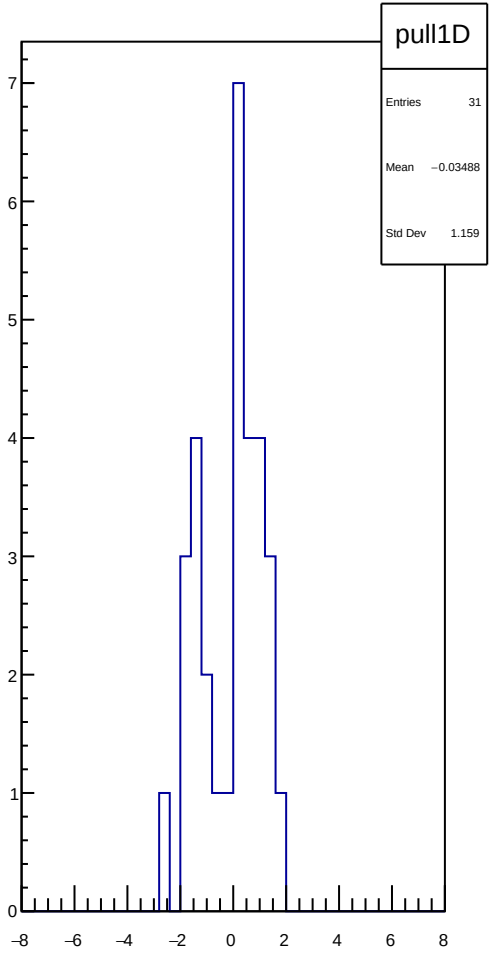

asym_sam2_reg_correction_rms vs run
χ² / ndf 802.7 / 30
p0 1606 ± 2.082
1750
1700
1650
1600
1550
1500
1450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

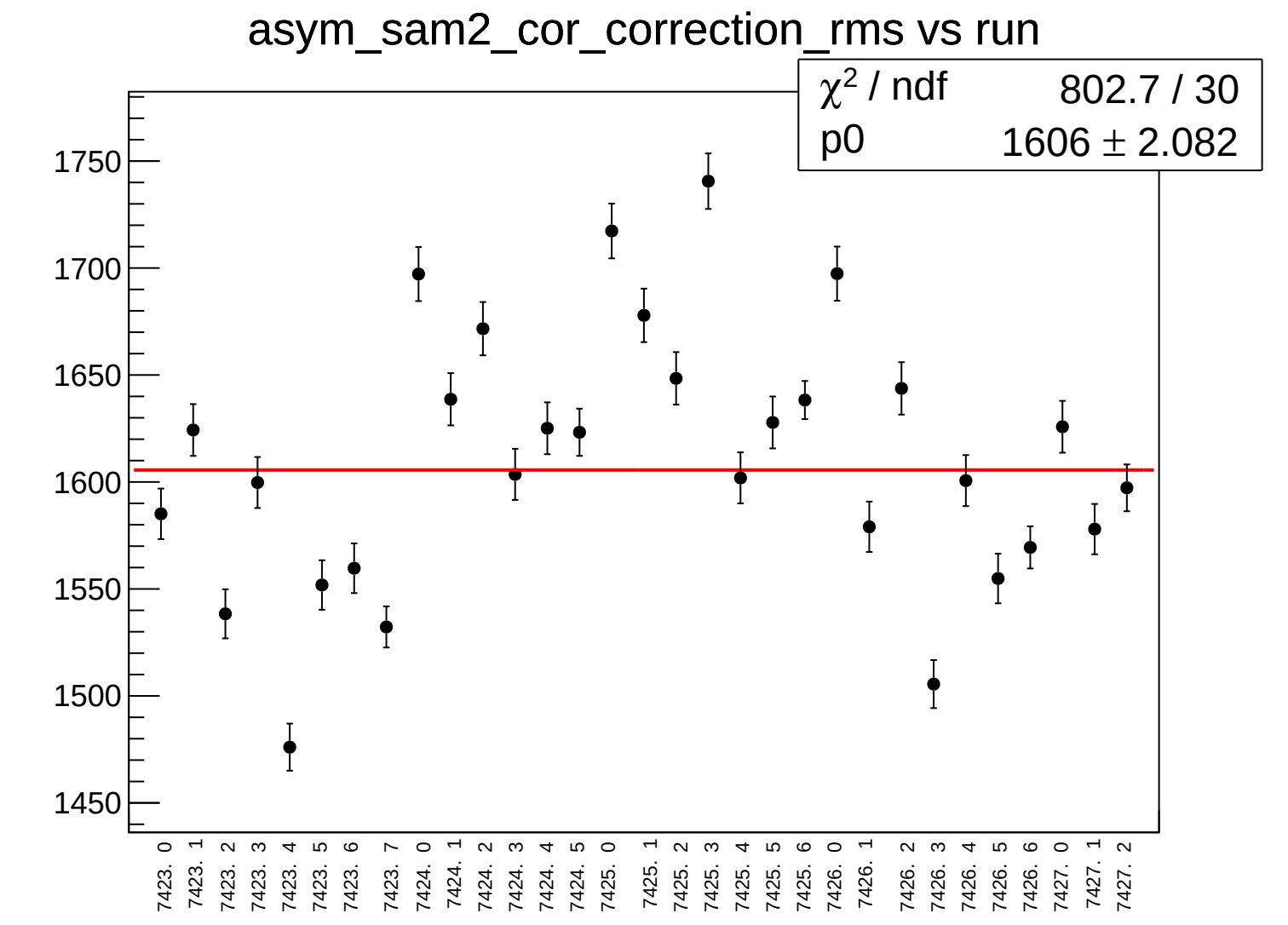

cor_asym_sam2_mean vs run
χ² / ndf 28.97 / 30
p0 −15.8 ± 488.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 176.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

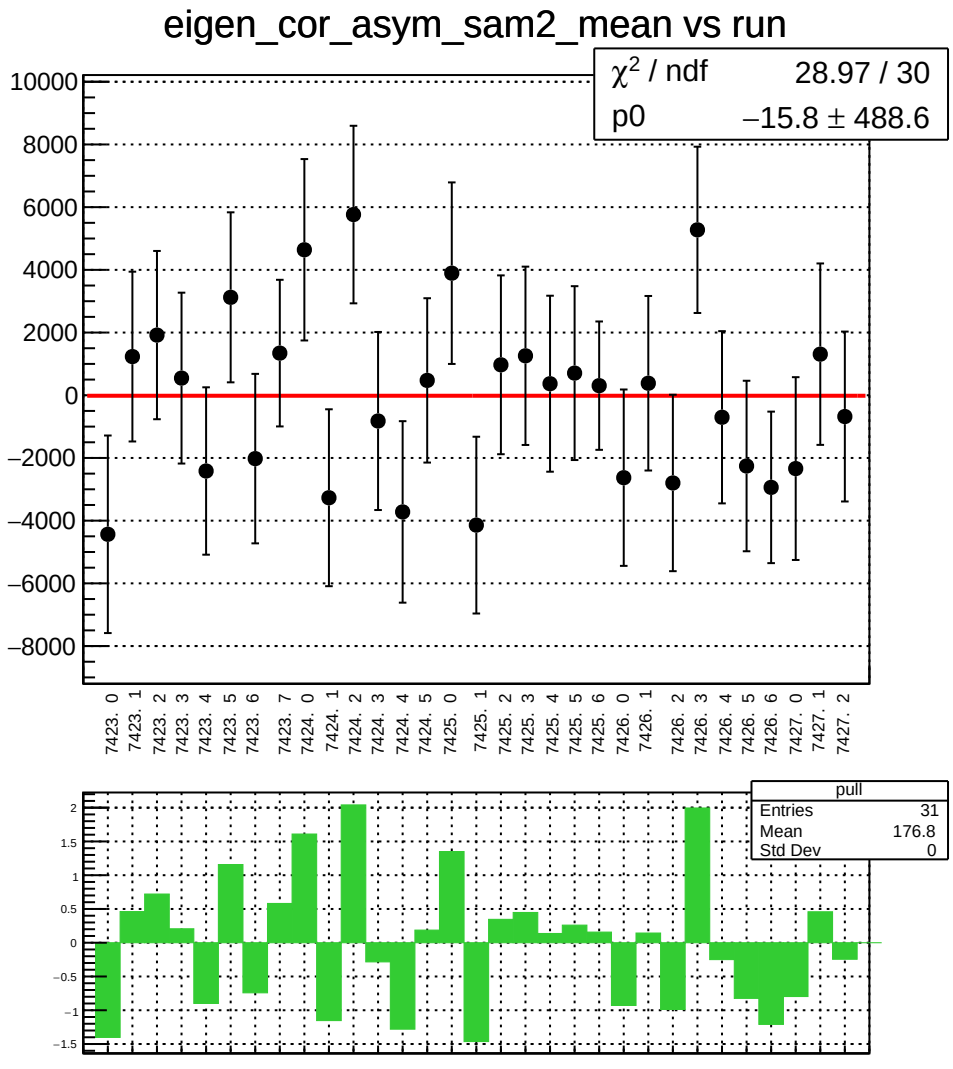

pull1D
Entries 31
Mean −0.006593
Std Dev 0.9667
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

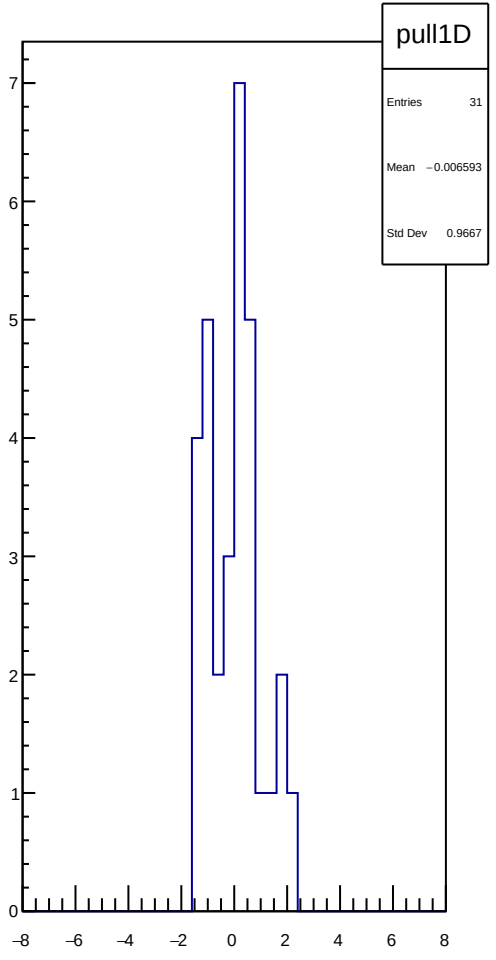

cor_asym_sam2_rms vs run
χ² / ndf 659.3 / 30
p0 266.5 ± 0.3455
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

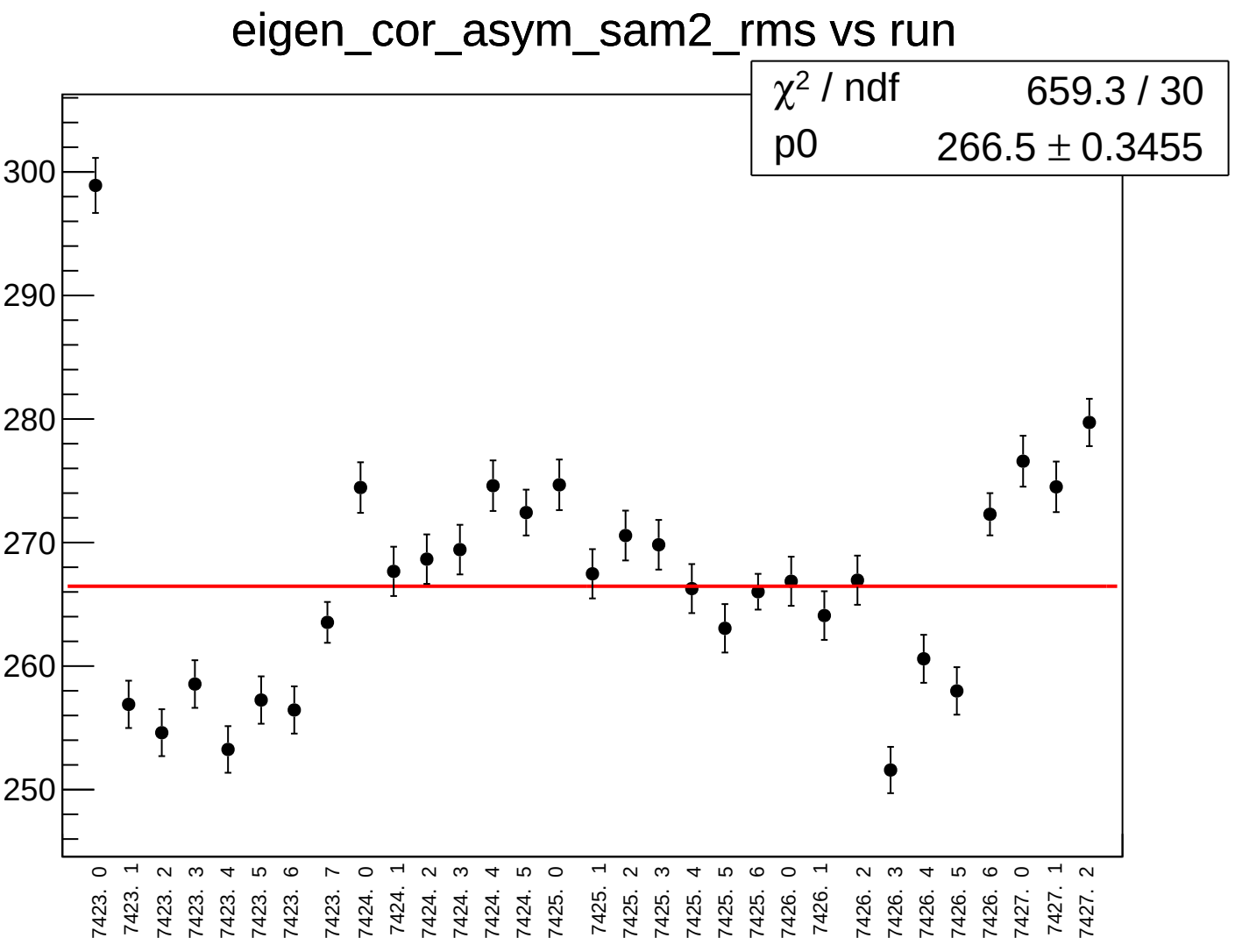

asym_sam2_cor_correction_mean vs run
χ² / ndf 41.66 / 30
p0 3306 ± 2944
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 52.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

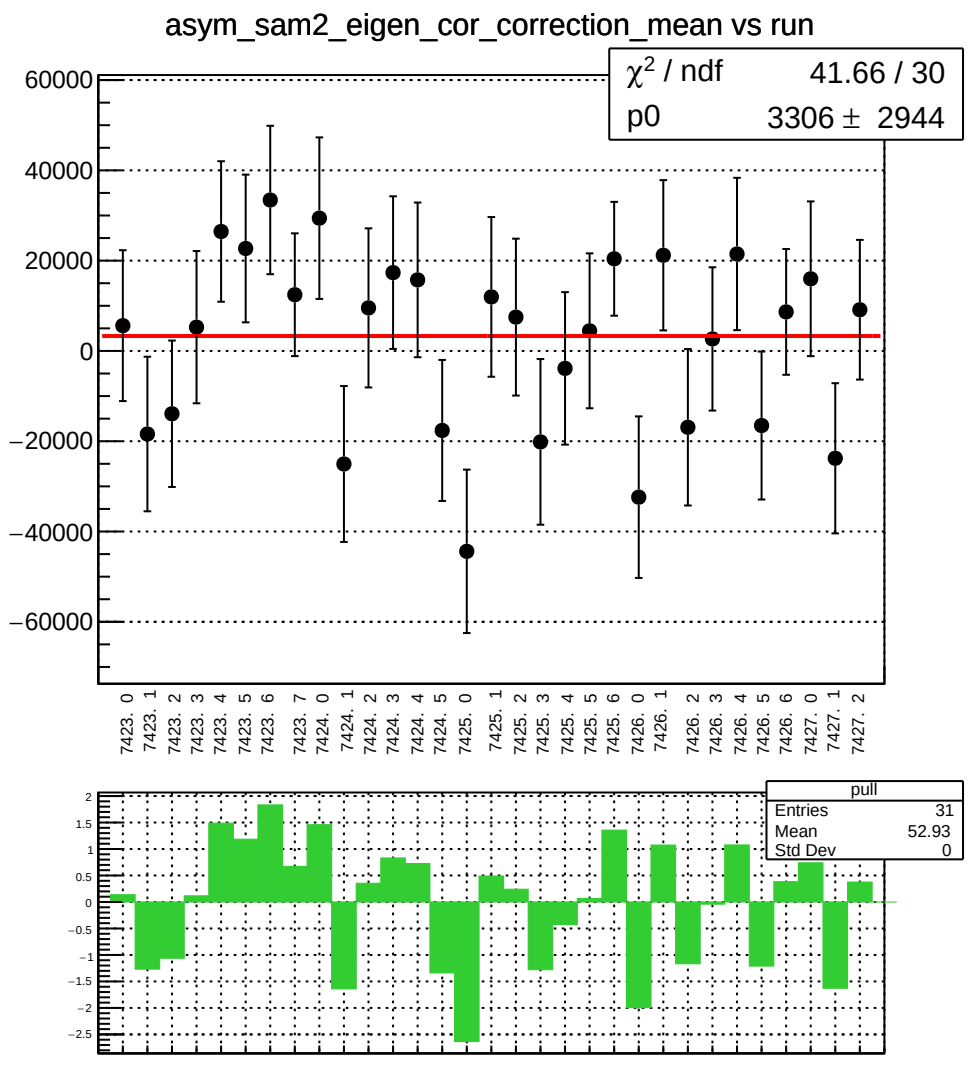

pull1D
Entries 31
Mean −0.03488
Std Dev 1.159
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

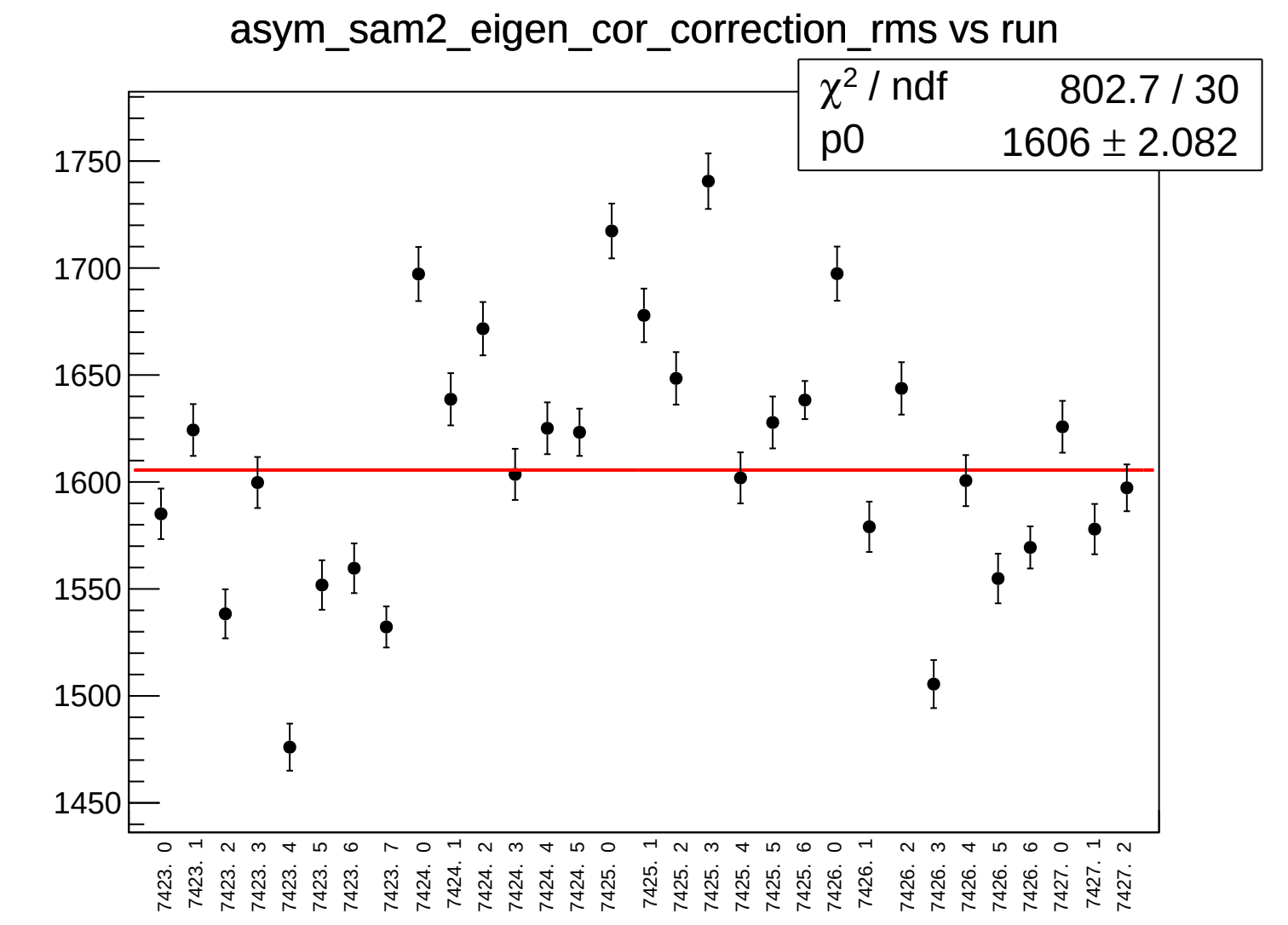

asym_sam2_cor_correction_rms vs run
χ² / ndf 802.7 / 30
p0 1606 ± 2.082
1750
1700
1650
1600
1550
1500
1450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

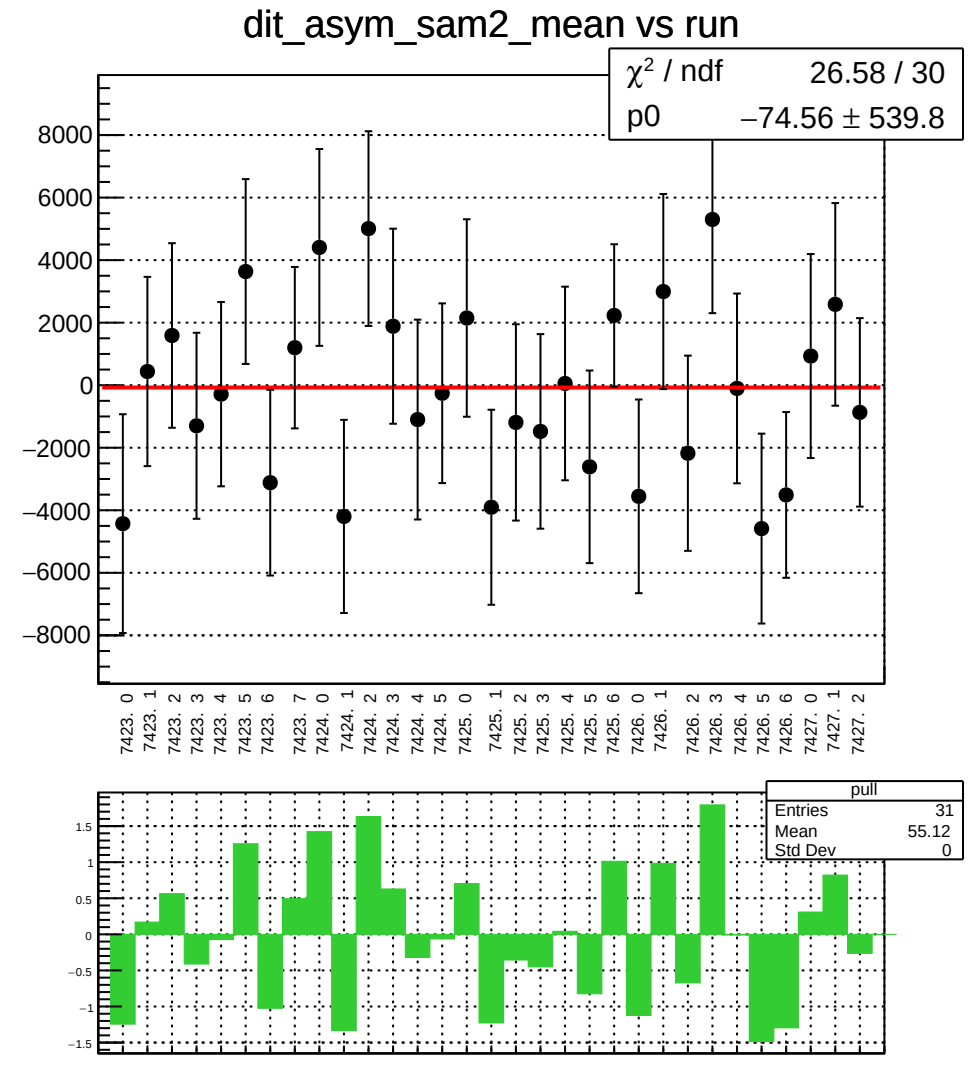

eigen_cor_asym_sam2_mean vs run
χ² / ndf 28.97 / 30
p0 −15.8 ± 488.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 176.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

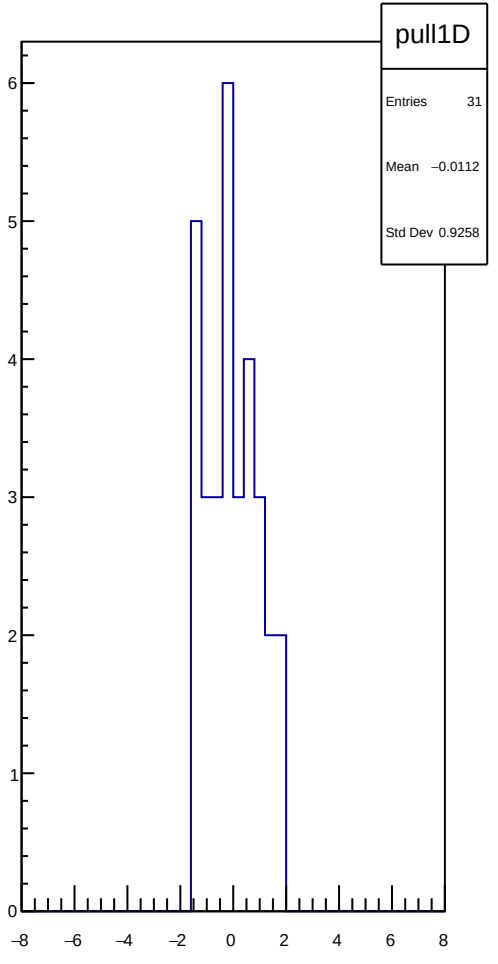

pull1D
Entries 31
Mean −0.006593
Std Dev 0.9667
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

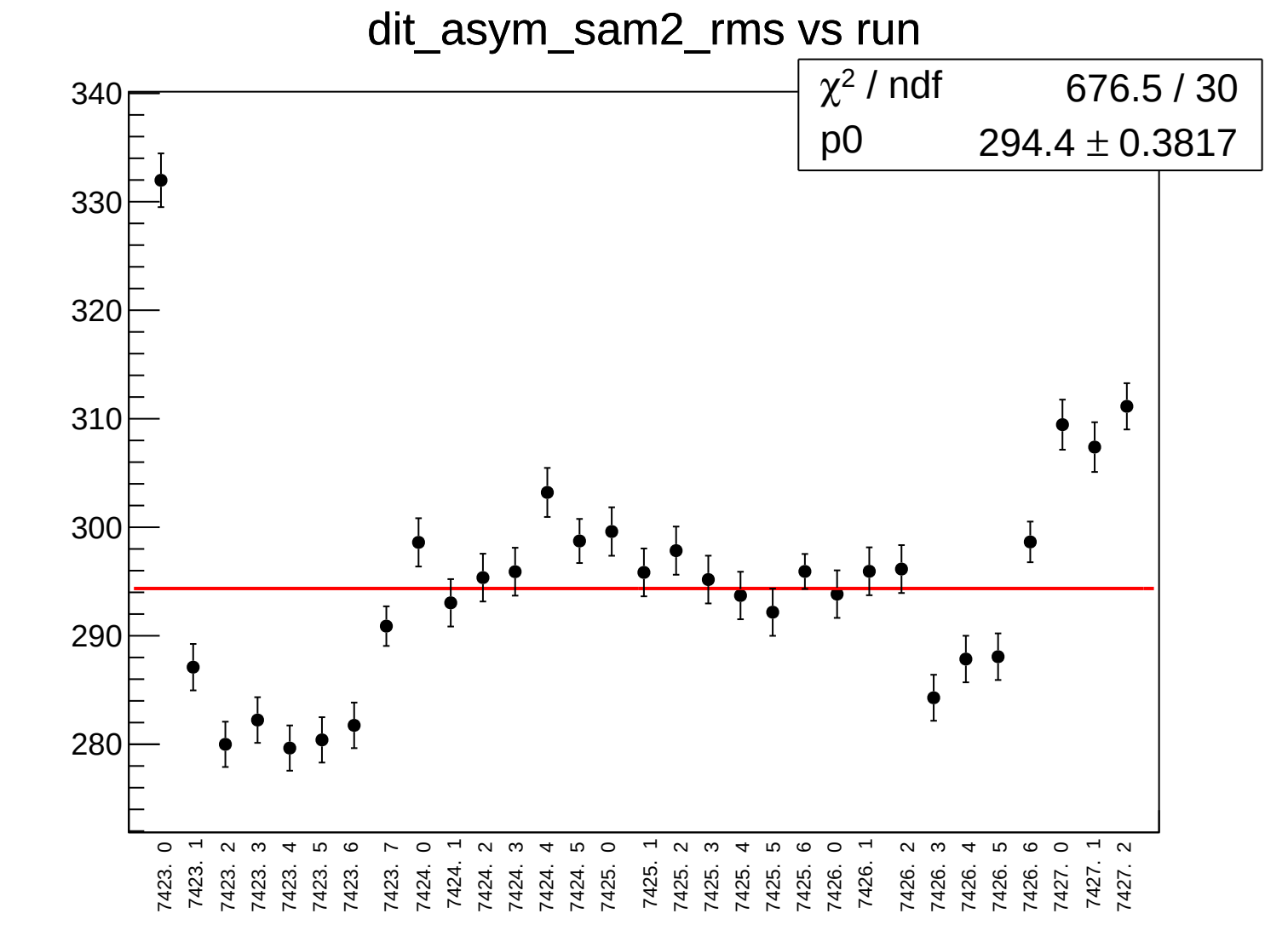

eigen_cor_asym_sam2_rms vs run
χ² / ndf 659.3 / 30
p0 266.5 ± 0.3455
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

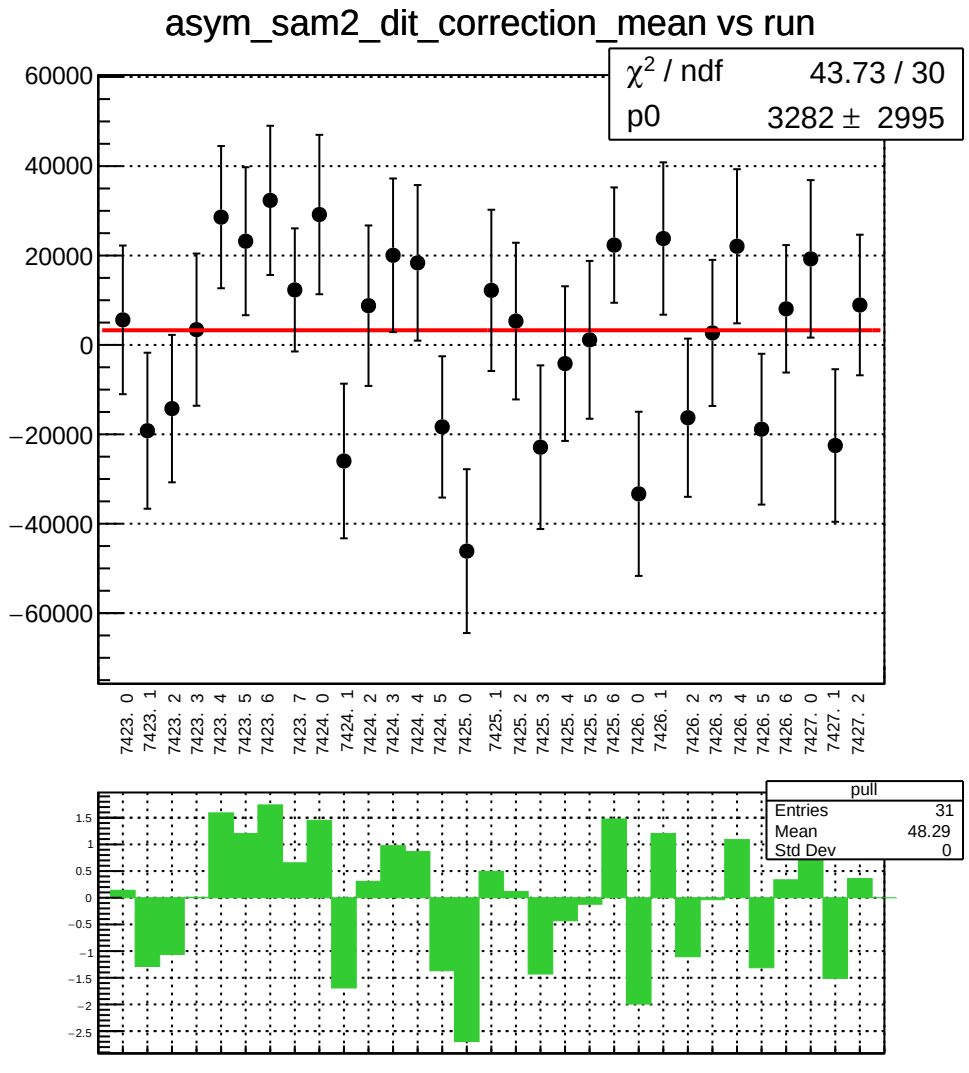

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 41.66 / 30
p0 3306 ± 2944
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 52.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.03488
Std Dev 1.159
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

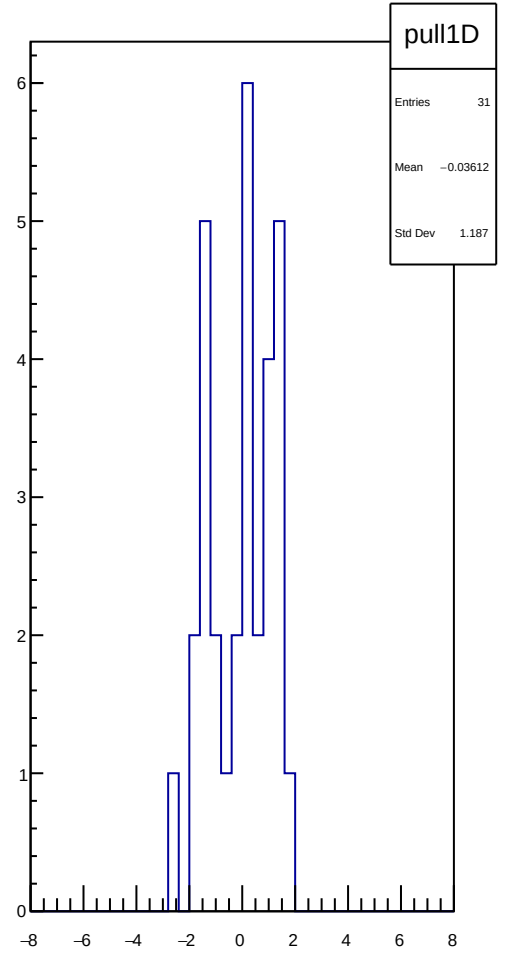

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 802.7 / 30
p0 1606 ± 2.082
1750
1700
1650
1600
1550
1500
1450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

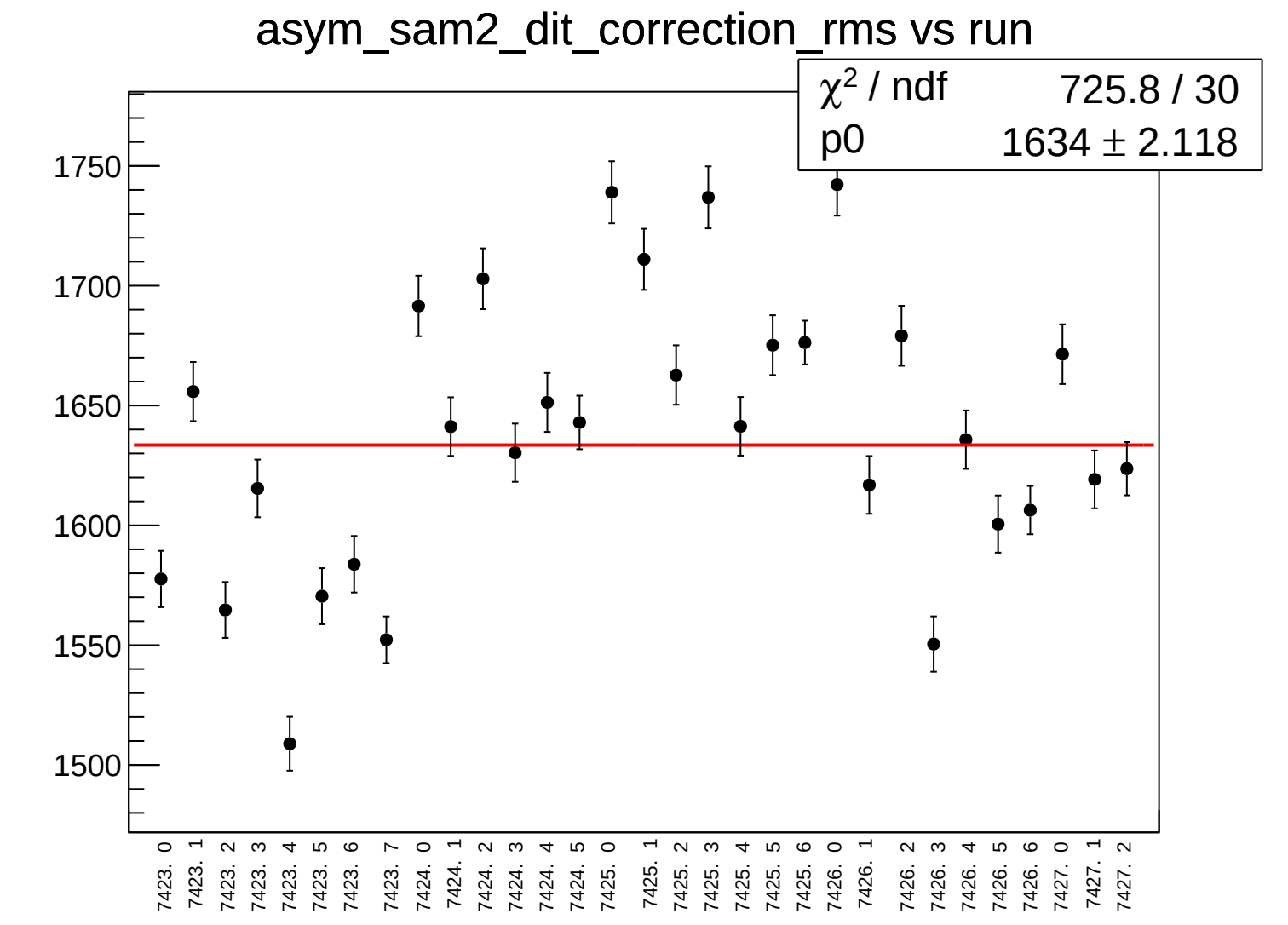

dit_asym_sam2_mean vs run
χ² / ndf 26.58 / 30
p0 −74.56 ± 539.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 55.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

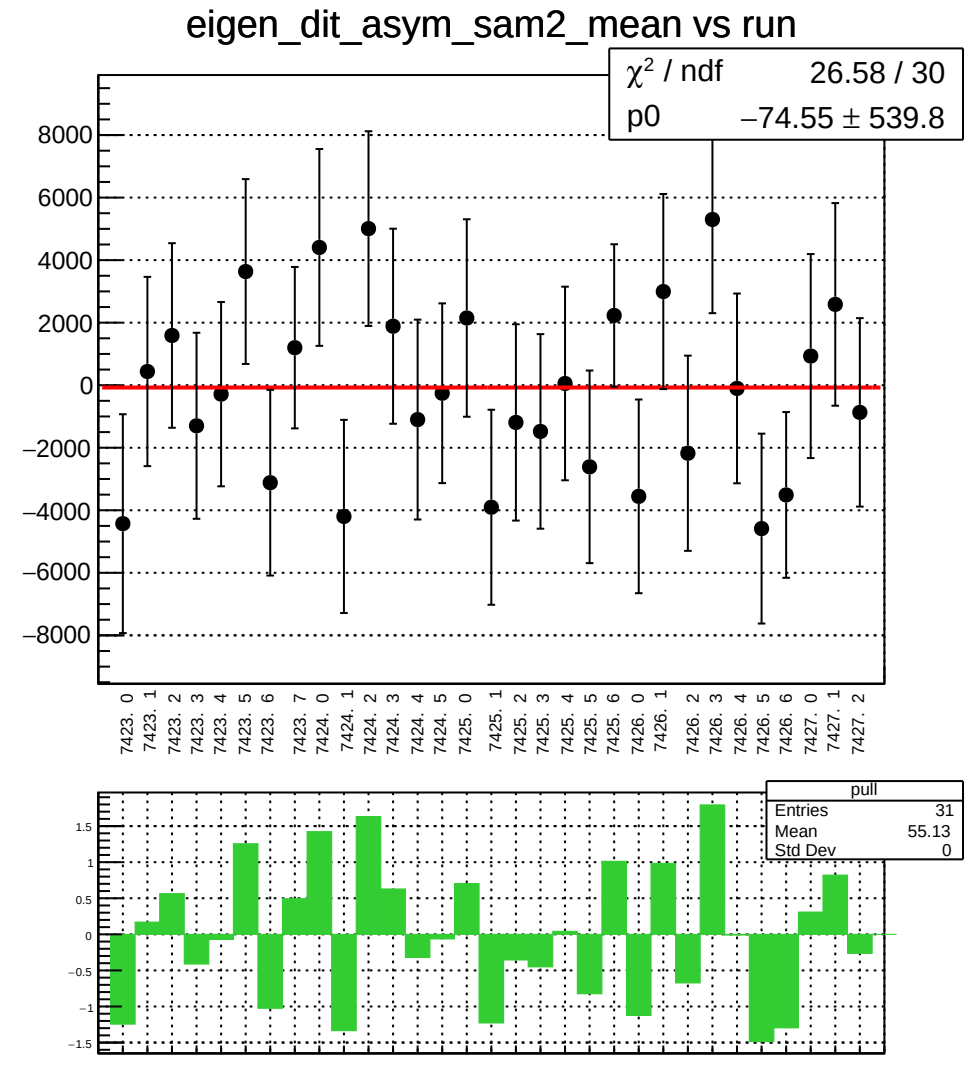

pull1D
Entries 31
Mean −0.0112
Std Dev 0.9258
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

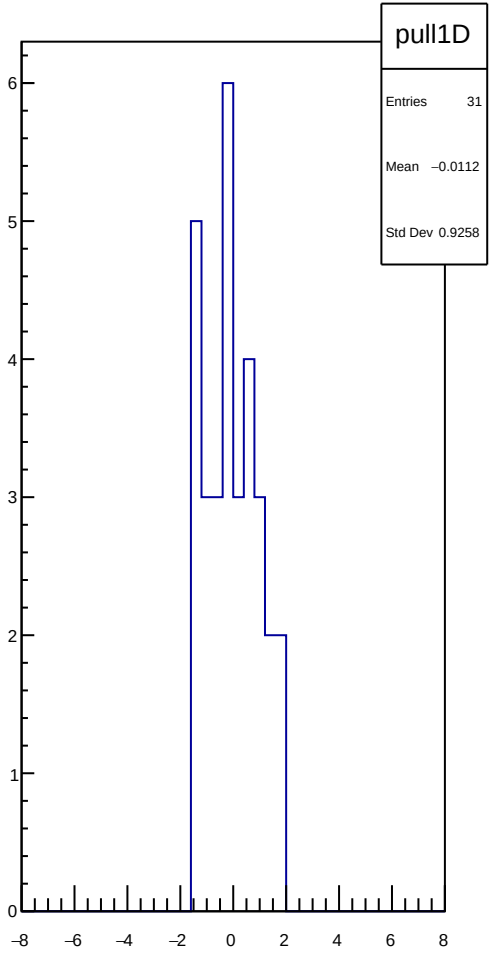

dit_asym_sam2_rms vs run
χ² / ndf 676.5 / 30
p0 294.4 ± 0.3817
340
330
320
310
300
290
280
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

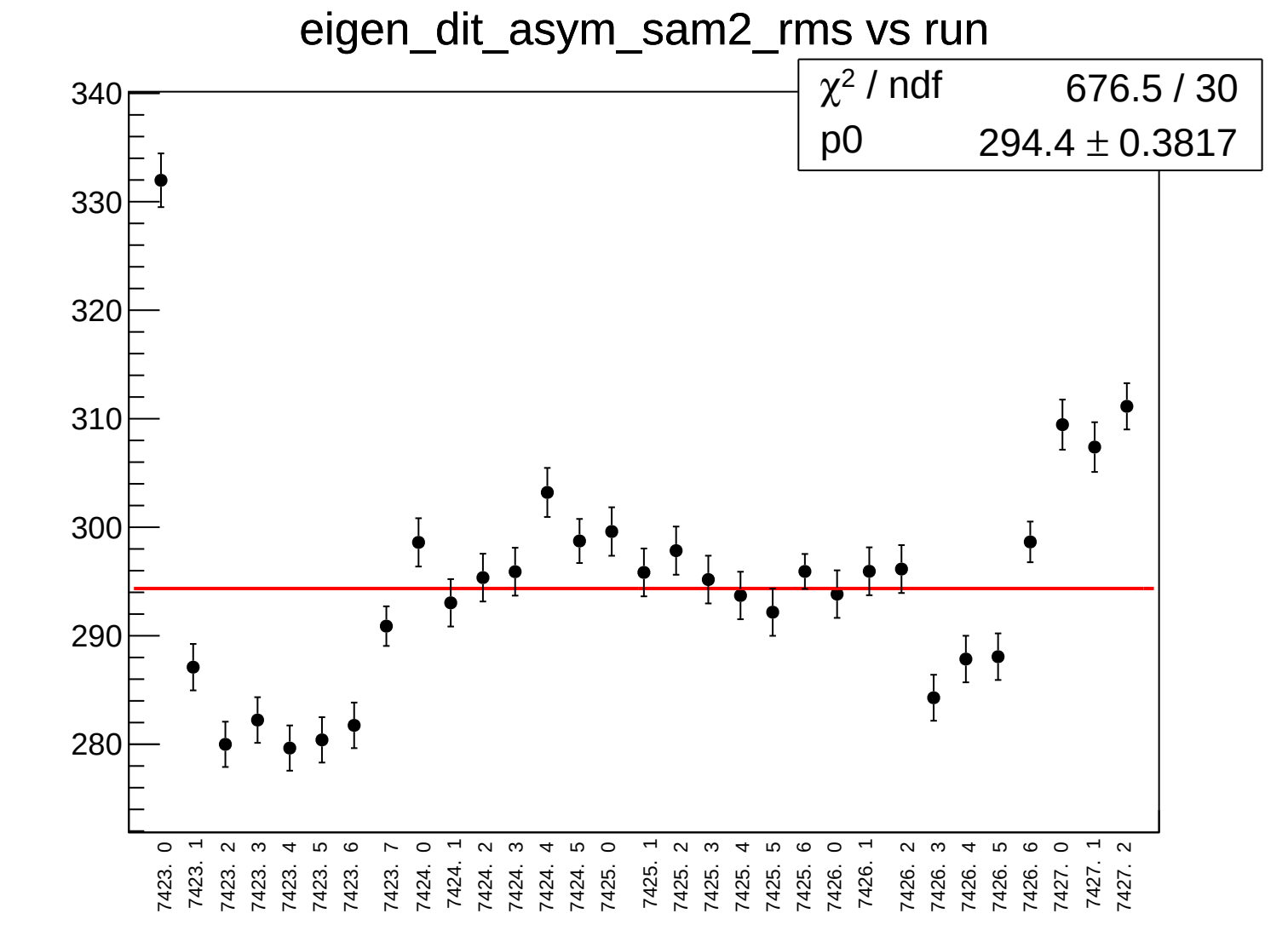

asym_sam2_dit_correction_mean vs run
χ² / ndf 43.73 / 30
p0 3282 ± 2995
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 48.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

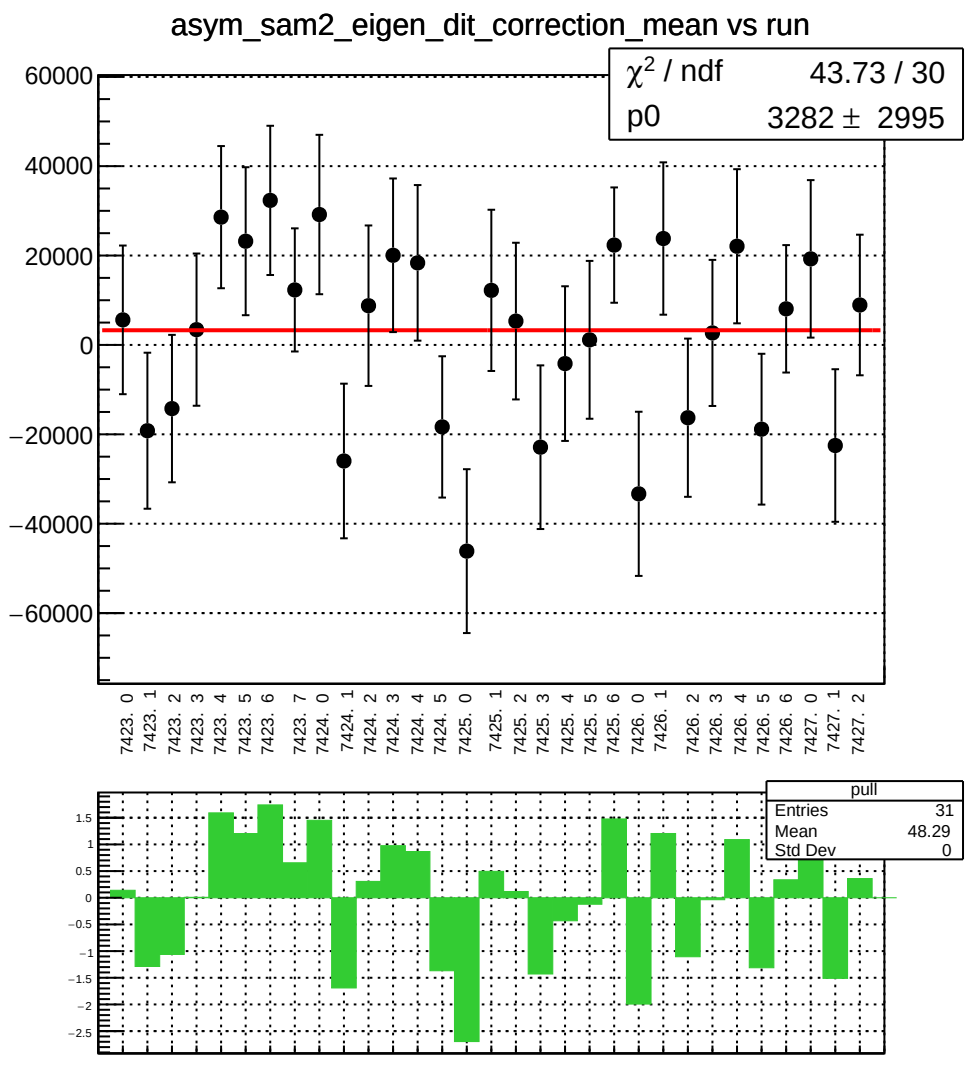

pull1D
Entries 31
Mean −0.03612
Std Dev 1.187
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

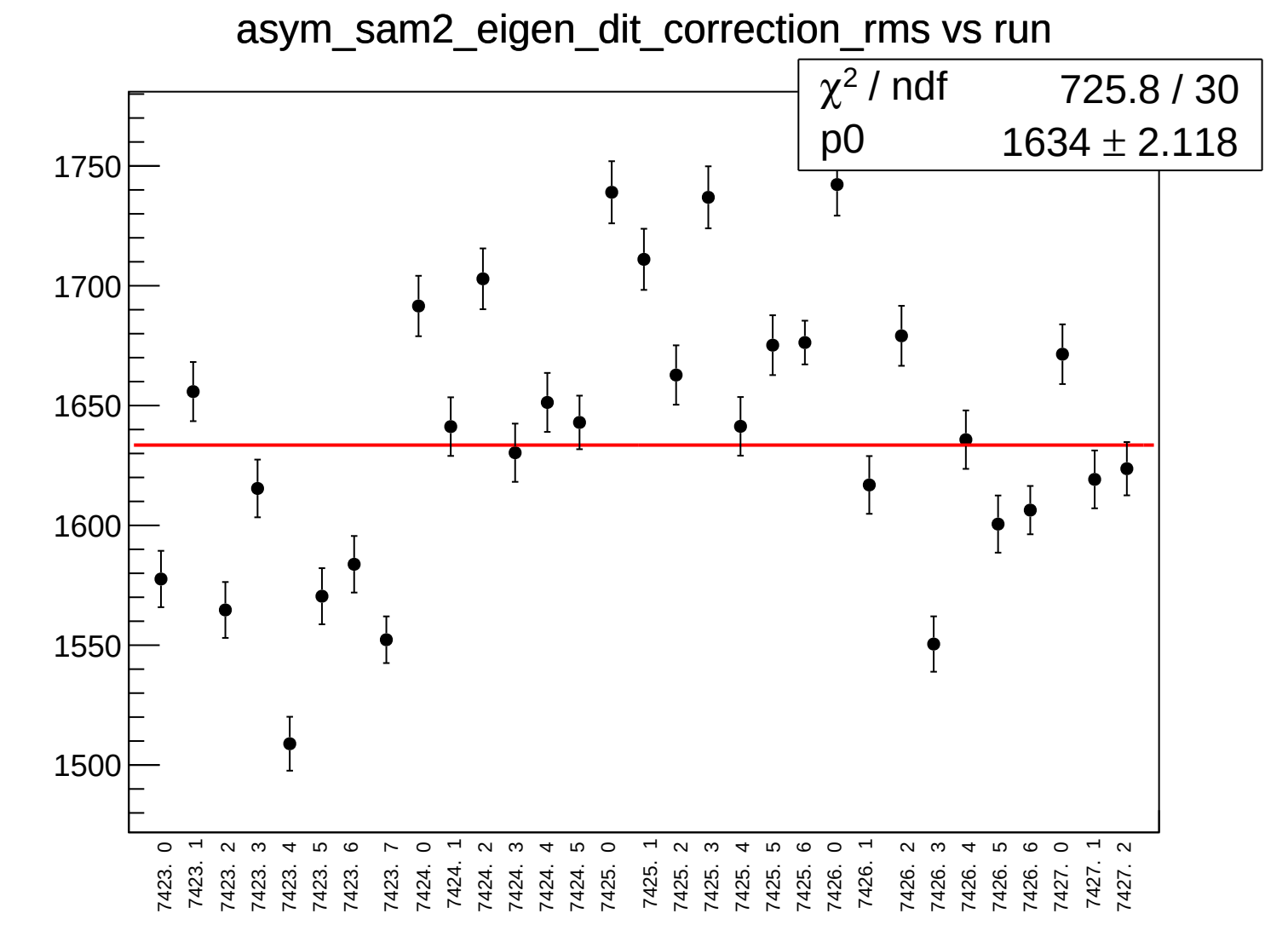

asym_sam2_dit_correction_rms vs run
χ² / ndf 725.8 / 30
p0 1634 ± 2.118
1750
1700
1650
1600
1550
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

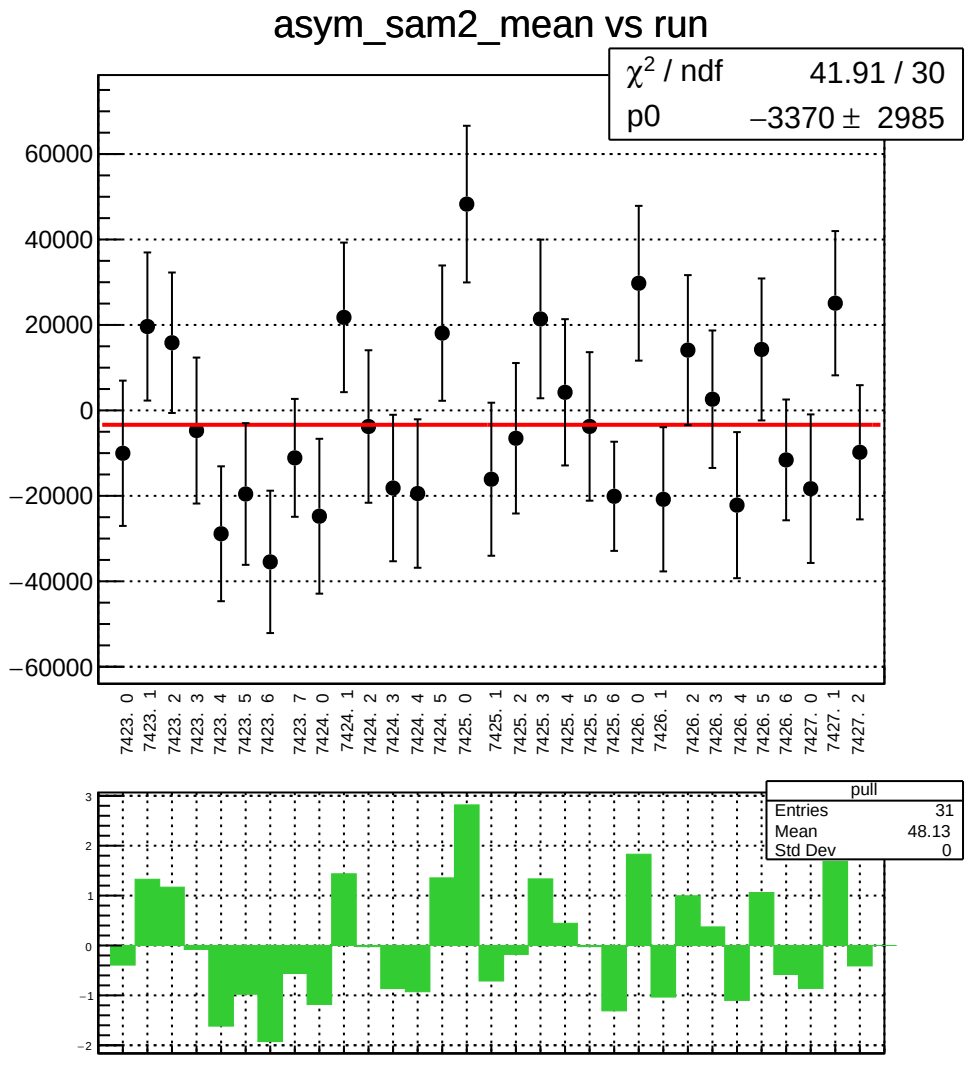

eigen_dit_asym_sam2_mean vs run
χ² / ndf 26.58 / 30
p0 −74.55 ± 539.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 55.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

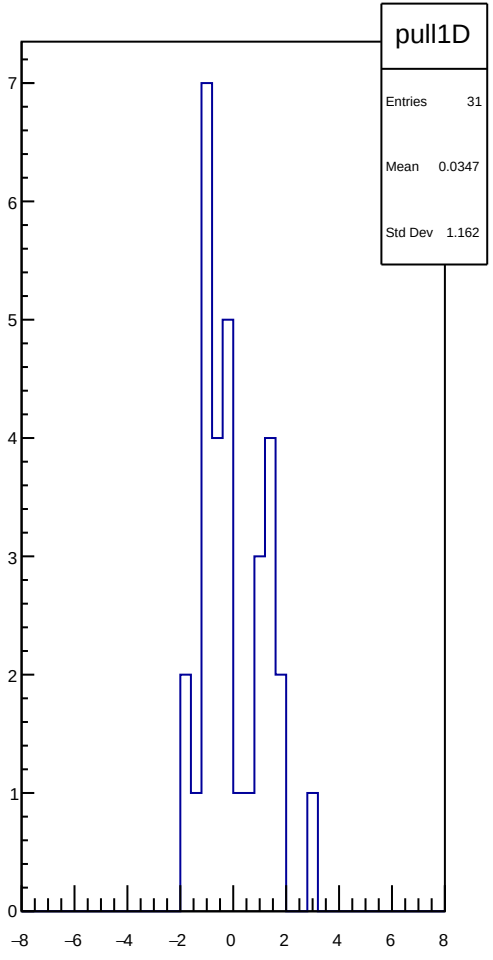

pull1D
Entries 31
Mean −0.0112
Std Dev 0.9258
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

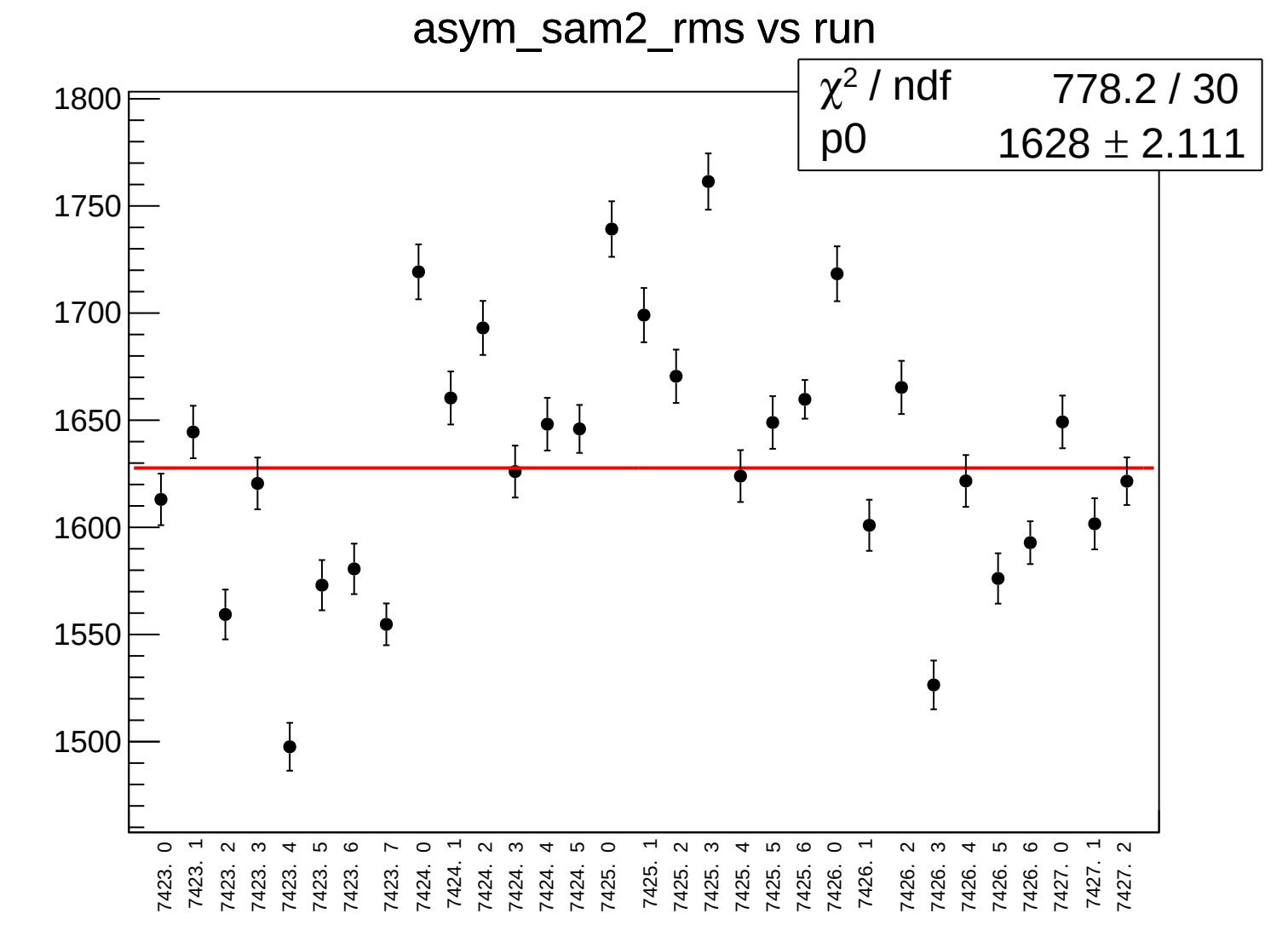

eigen_dit_asym_sam2_rms vs run
χ² / ndf 676.5 / 30
p0 294.4 ± 0.3817
340
330
320
310
300
290
280
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

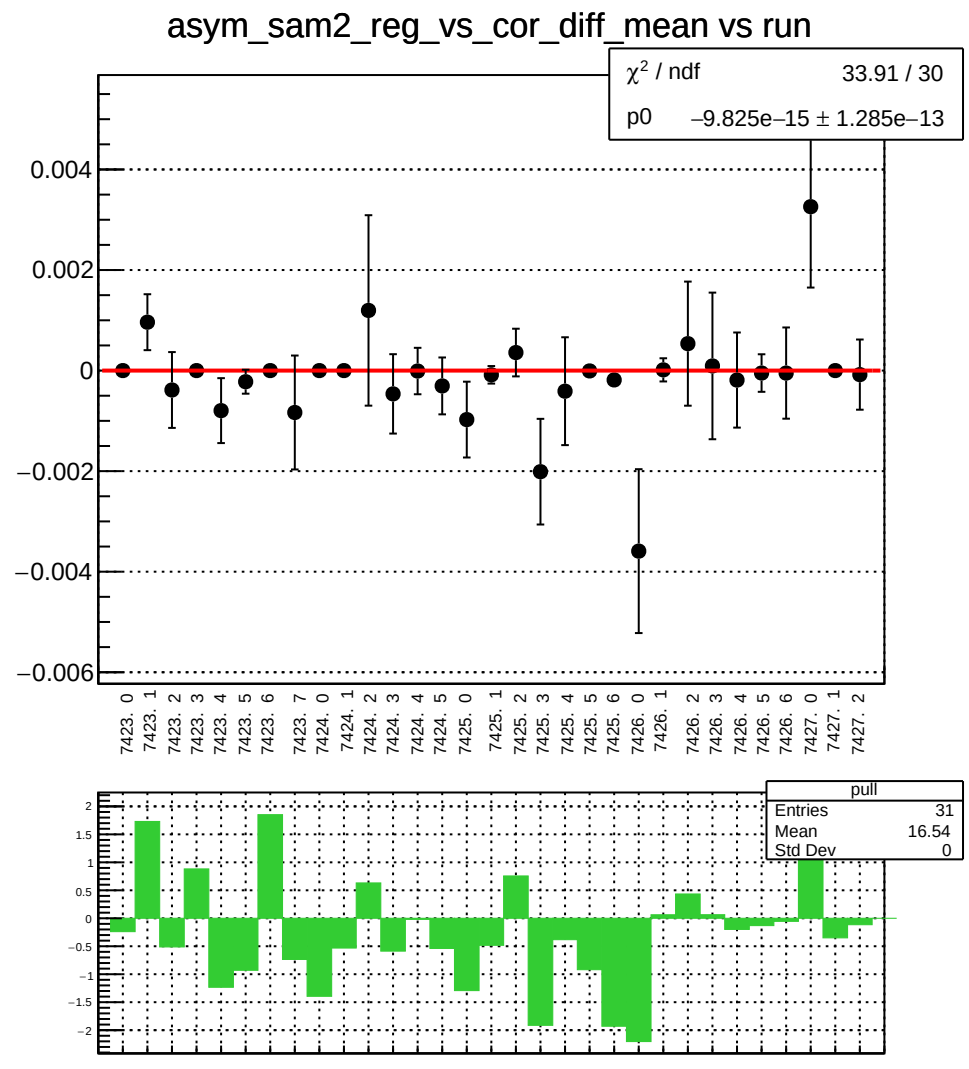

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 43.73 / 30
p0 3282 ± 2995
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 48.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.03612
Std Dev 1.187
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

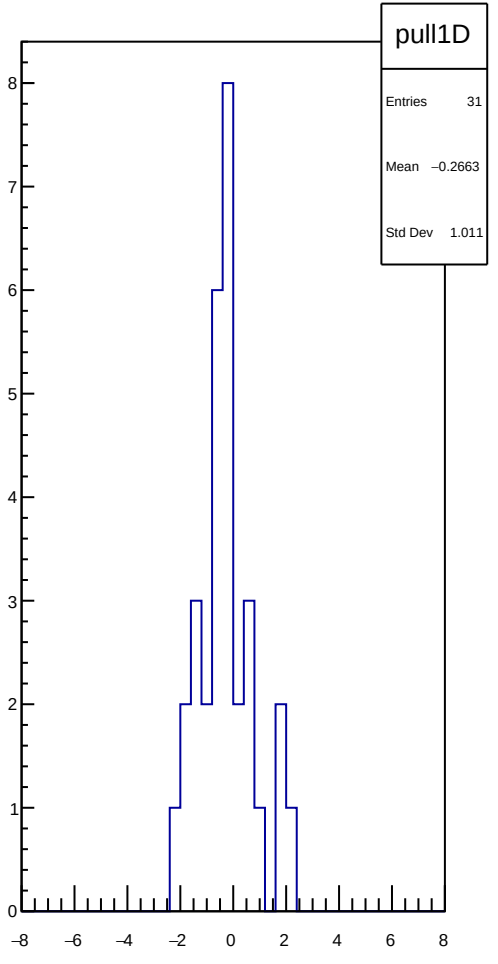

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 725.8 / 30
p0 1634 ± 2.118
1750
1700
1650
1600
1550
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

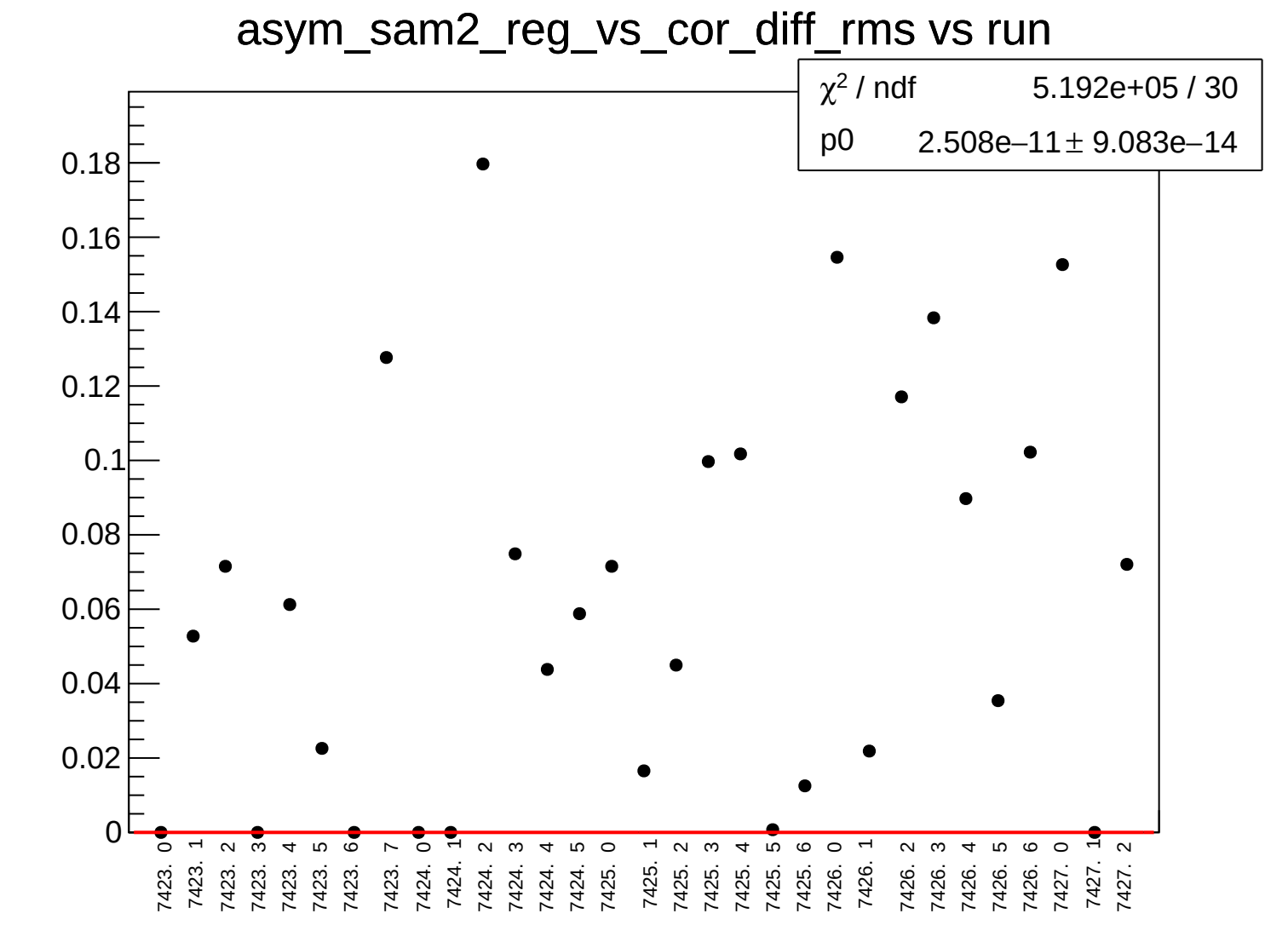

asym_sam2_mean vs run
χ² / ndf 41.91 / 30
p0 −3370 ± 2985
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 48.13
Std Dev 0
3
2
1
0
−1
−2

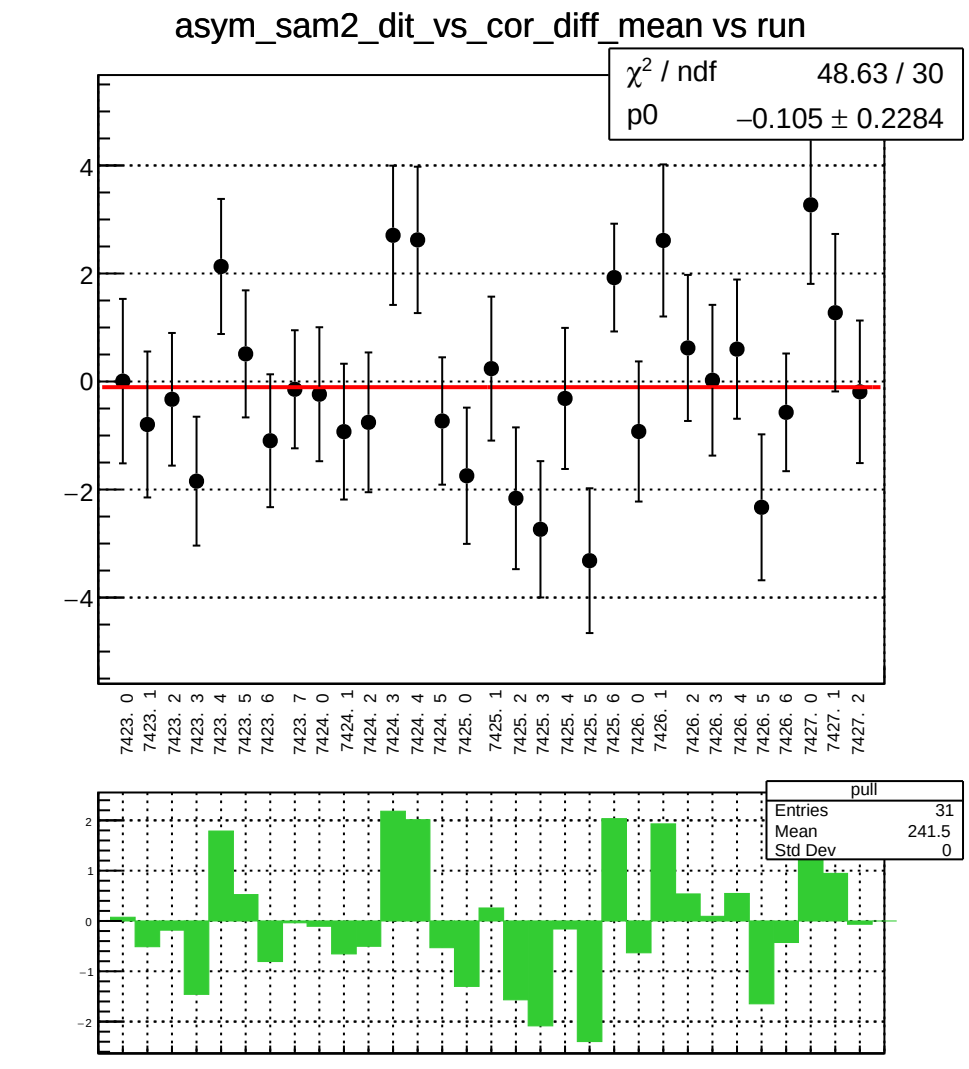

pull1D
Entries 31
Mean 0.0347
Std Dev 1.162
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

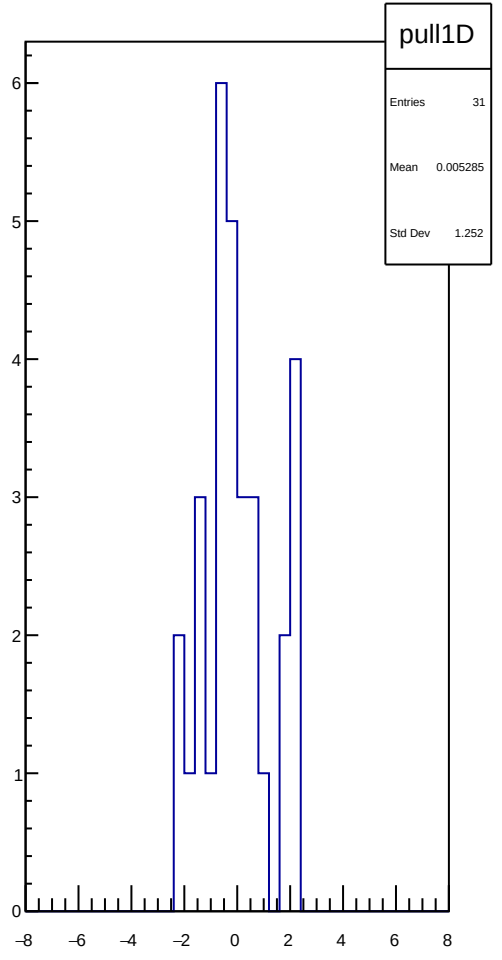

asym_sam2_rms vs run
χ² / ndf 778.2 / 30
p0 1628 ± 2.111
1800
1750
1700
1650
1600
1550
1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

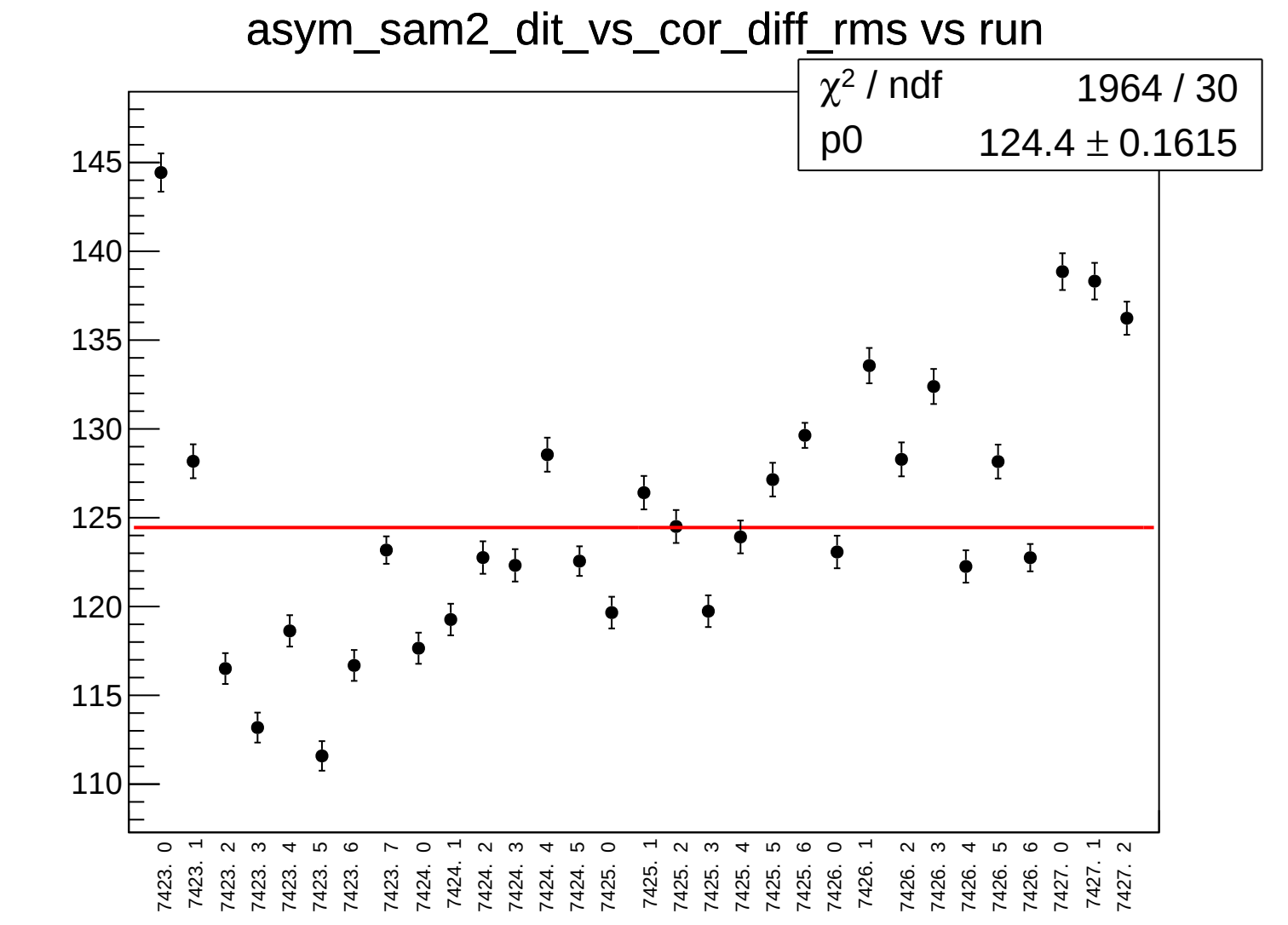

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 33.91 / 30
p0 −9.825e−15 ± 1.285e−13
0.004
0.002
0
−0.002
−0.004
−0.006
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

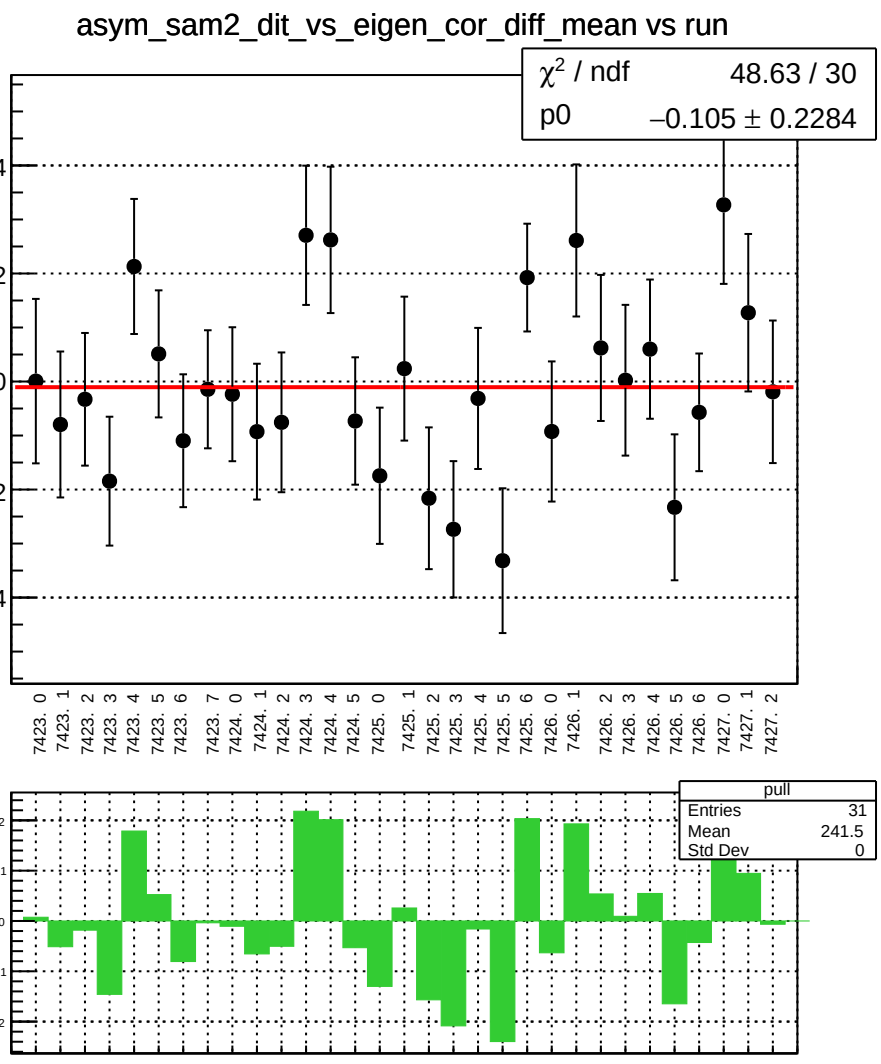

pull1D
Entries 31
Mean −0.2663
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

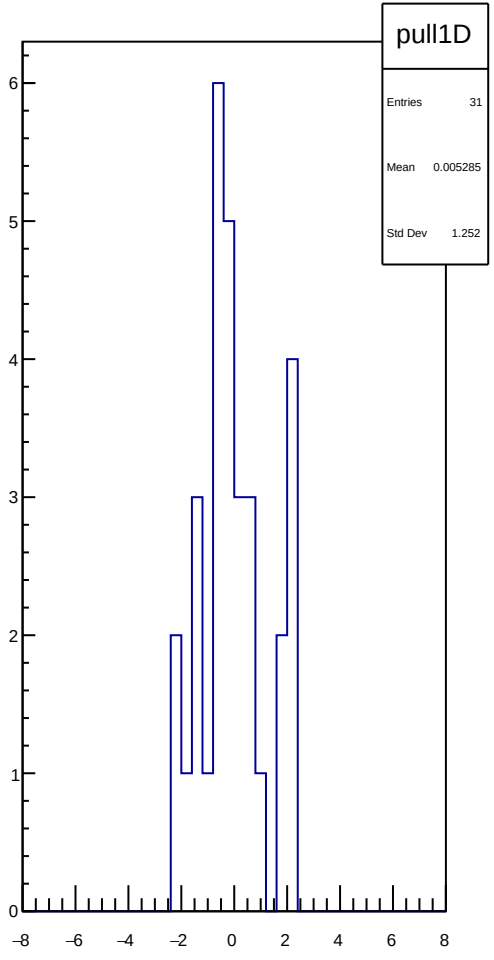

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 5.192e+05 / 30
p0 2.508e−11 ± 9.083e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

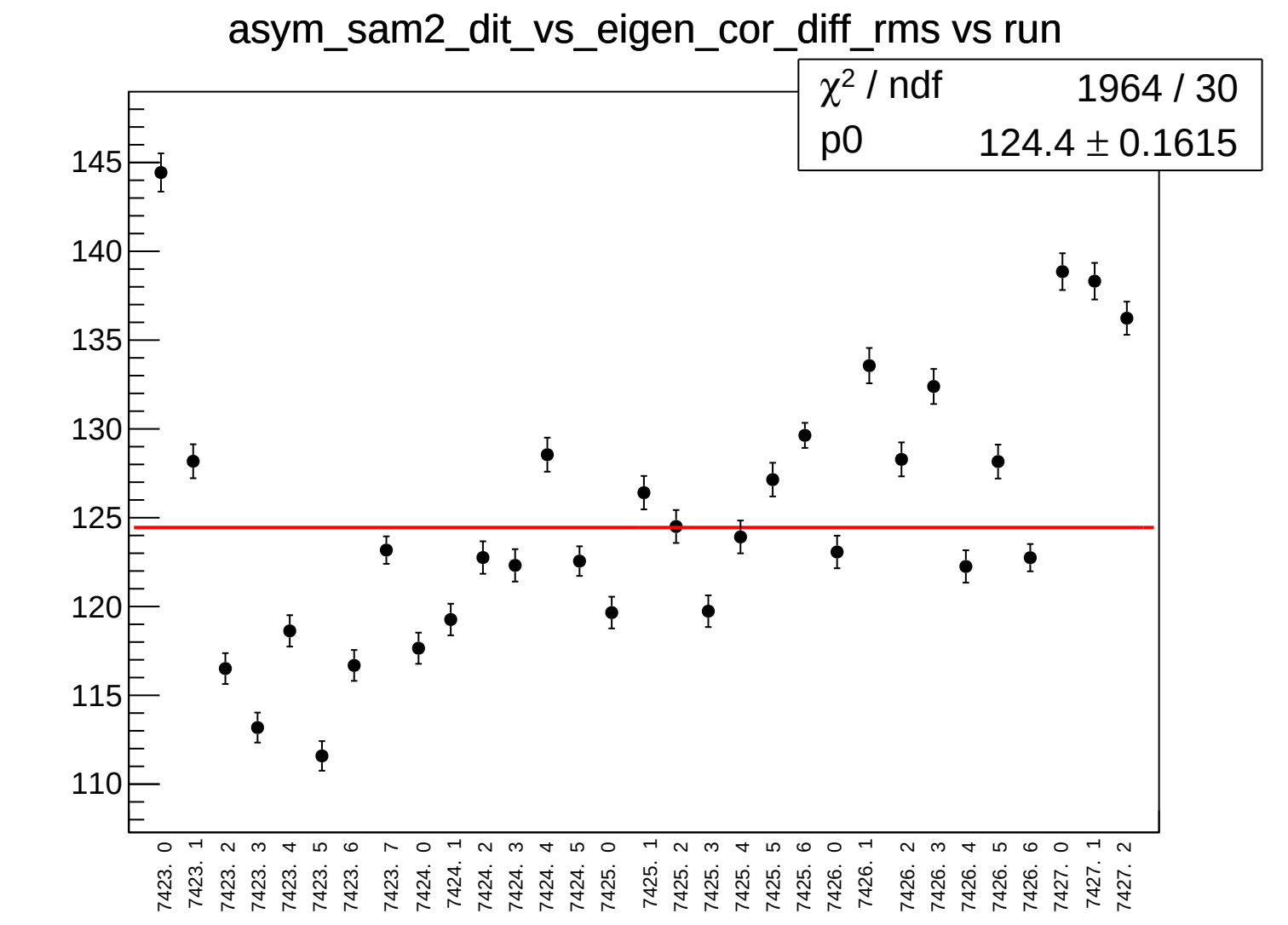

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 48.63 / 30
p0 −0.105 ± 0.2284
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 241.5
Std Dev 0
2
1
0
−1
−2

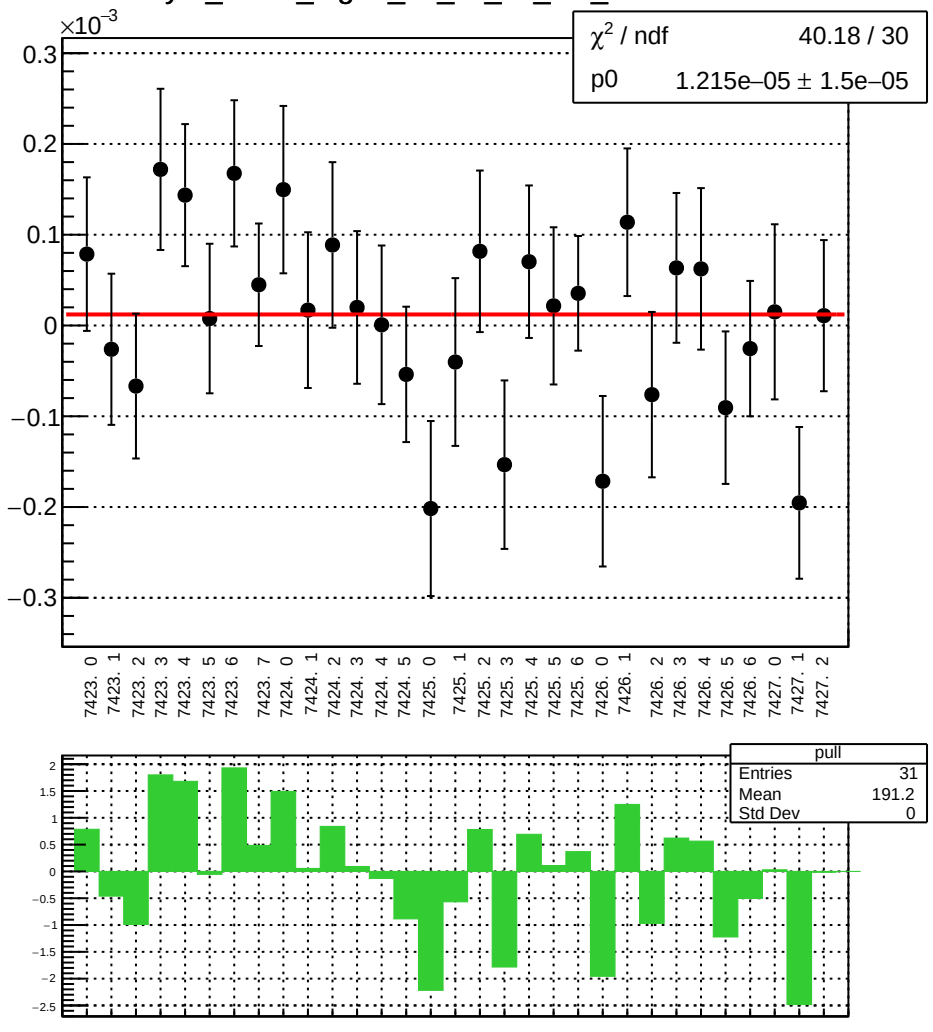

pull1D
Entries 31
Mean 0.005285
Std Dev 1.252
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

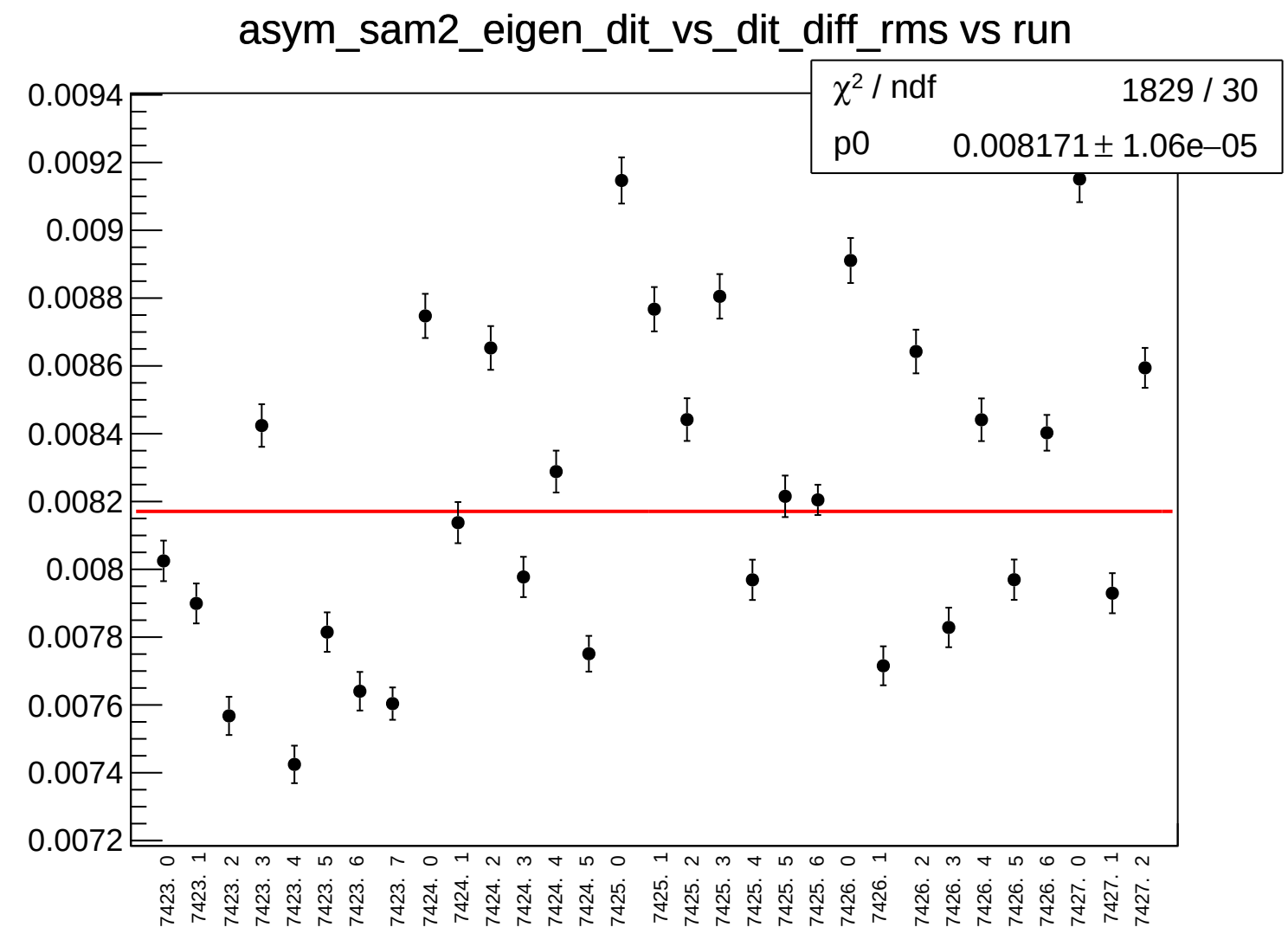

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1964 / 30
p0 124.4 ± 0.1615
145
140
135
130
125
120
115
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

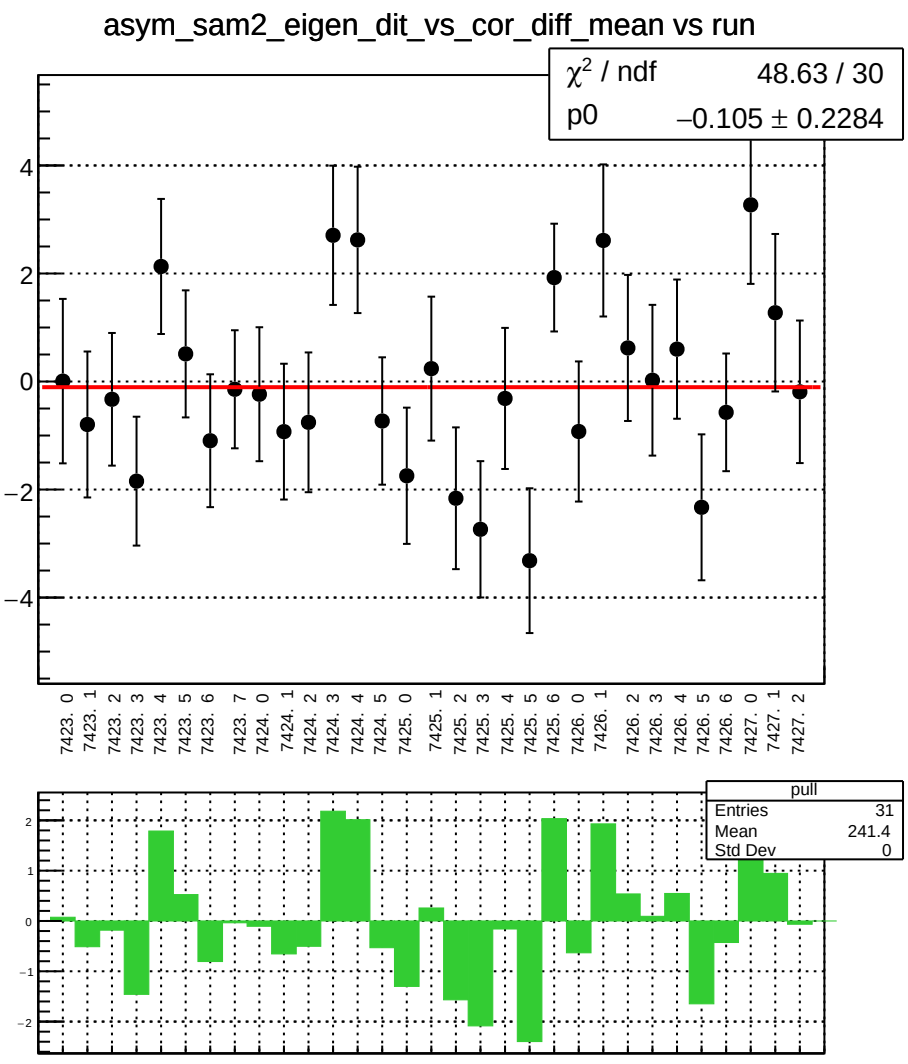

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.63 / 30
p0 −0.105 ± 0.2284
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 241.5
Std Dev 0
2
1
0
−1
−2

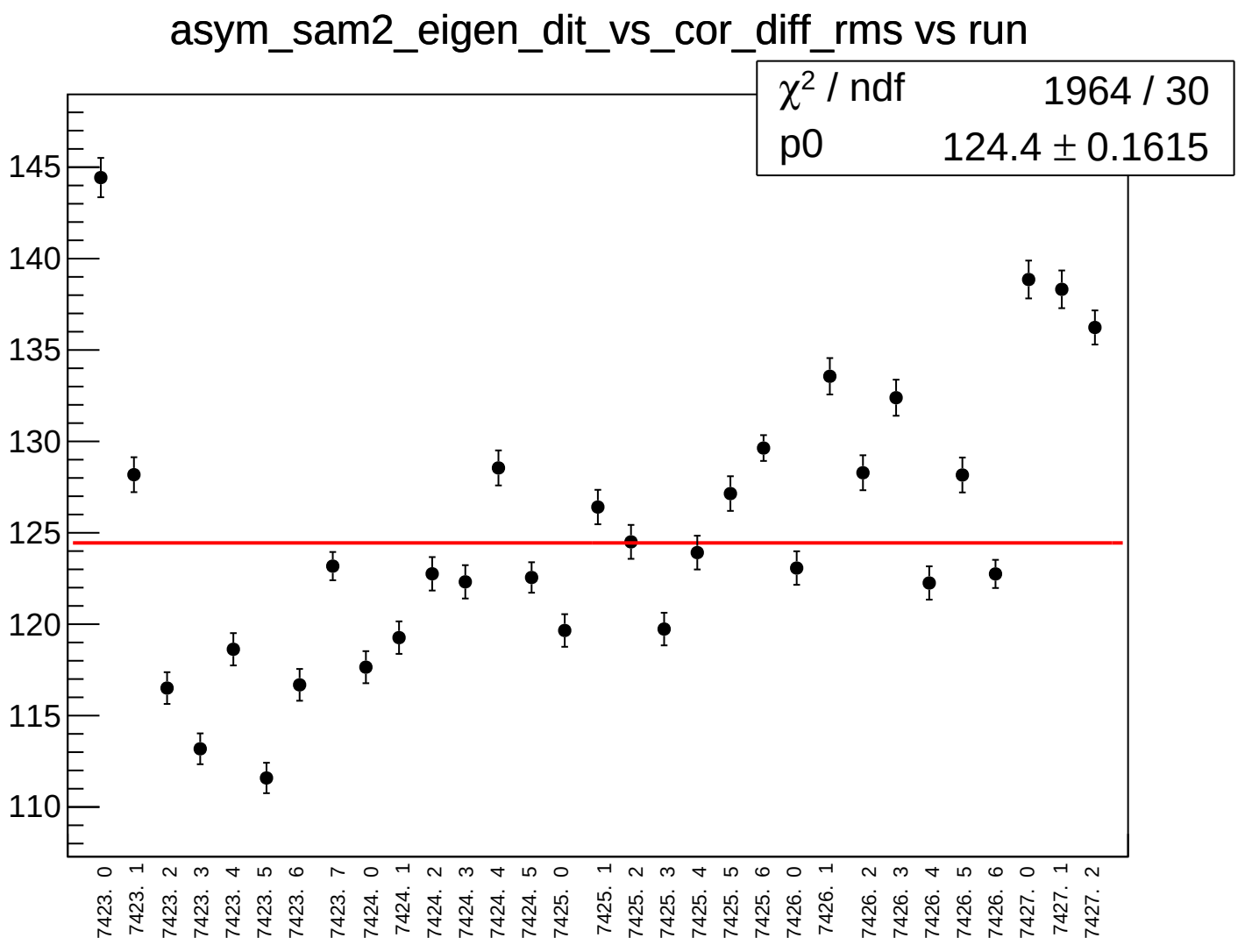

pull1D
Entries 31
Mean 0.005285
Std Dev 1.252
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

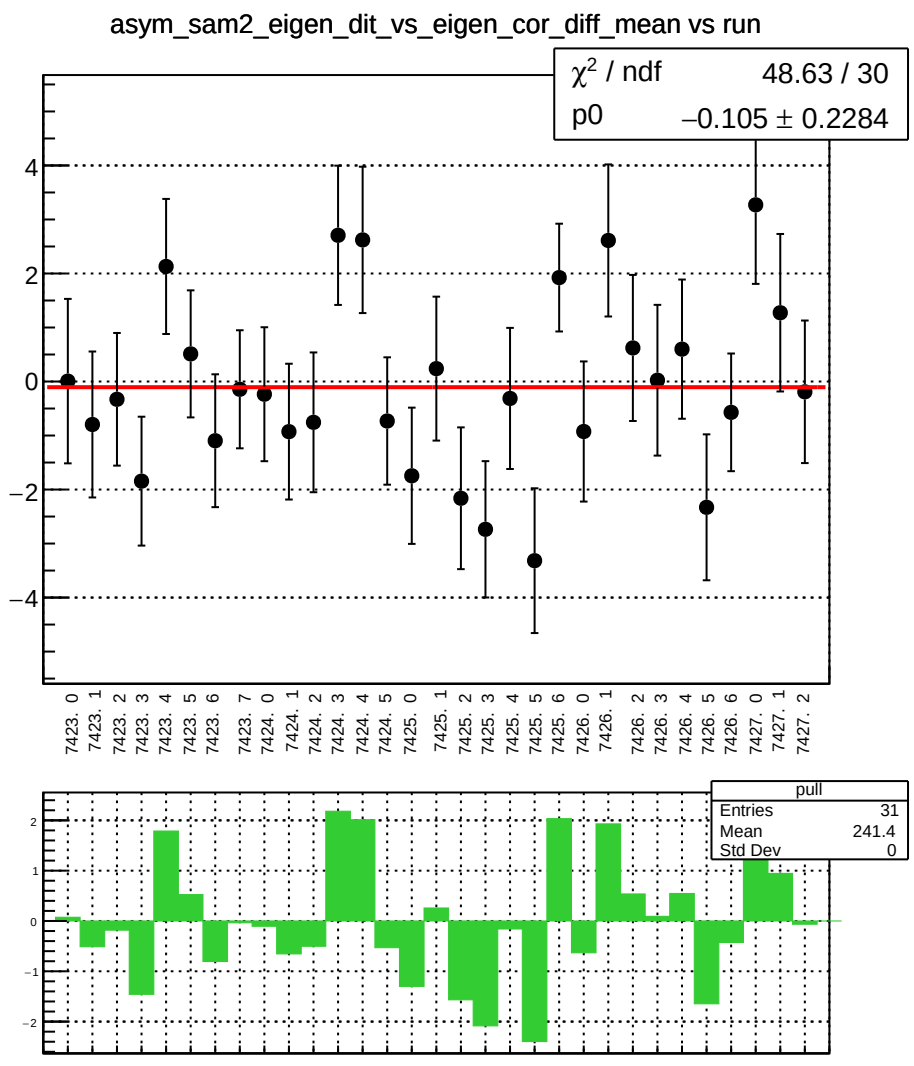

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1964 / 30
p0 124.4 ± 0.1615
145
140
135
130
125
120
115
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

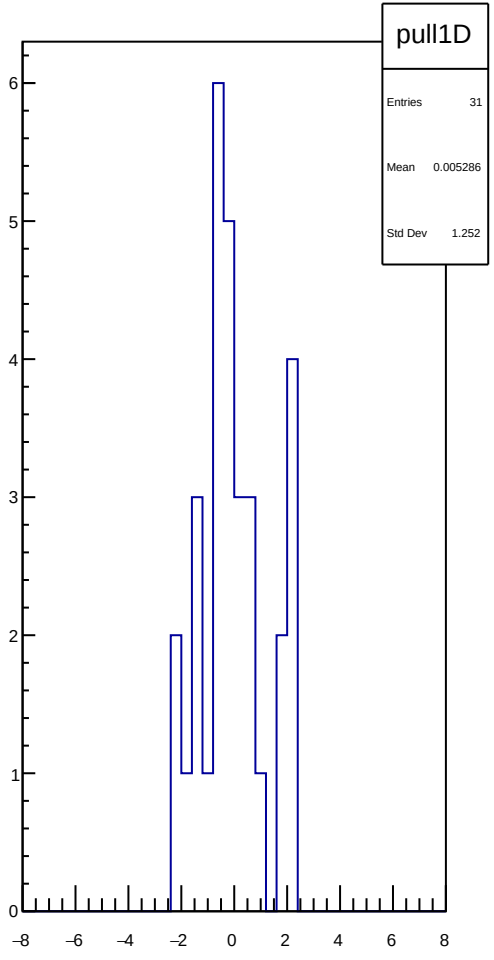

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.18 / 30
p0 1.215e−05 ± 1.5e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 191.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.02134
Std Dev 1.138
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

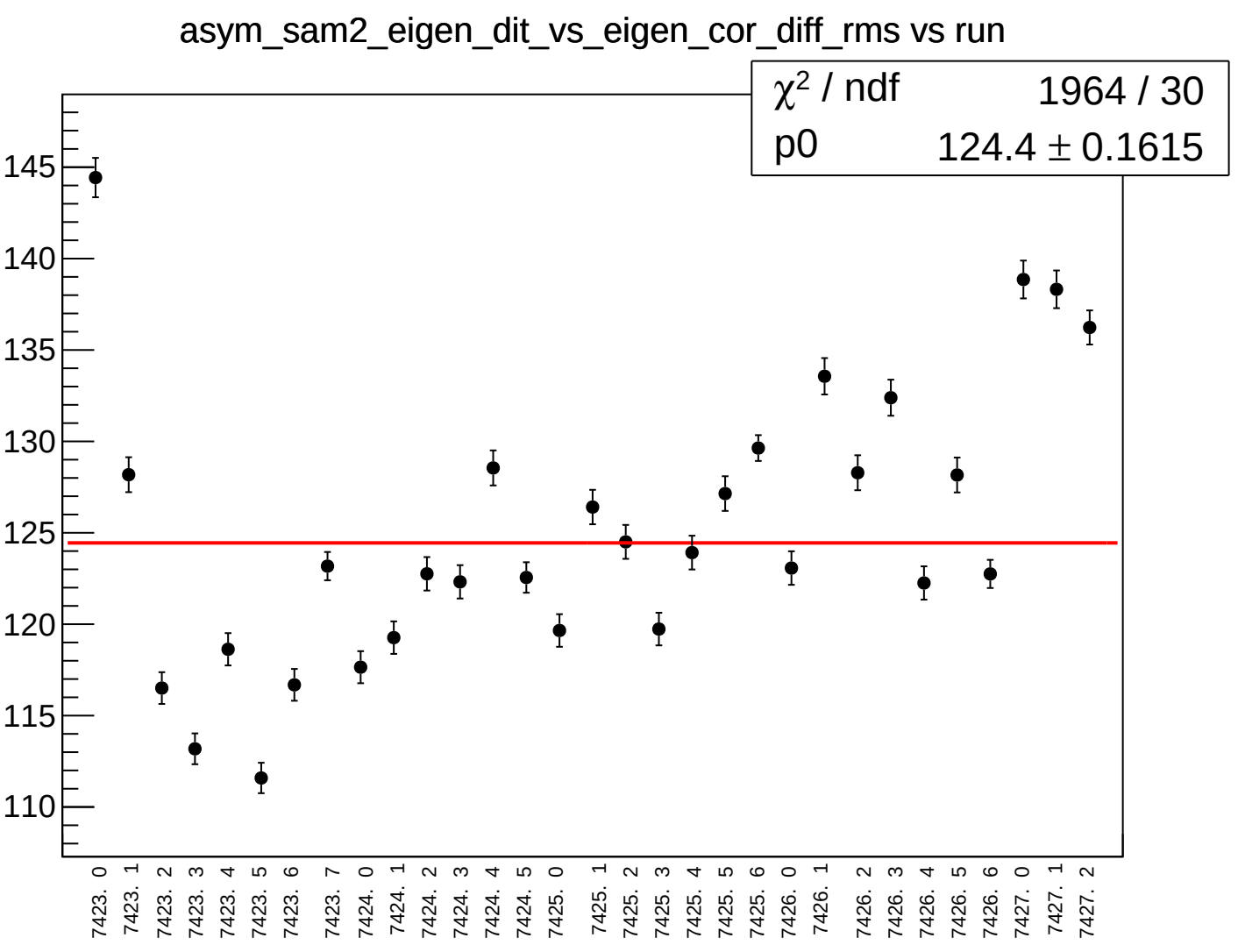

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1829 / 30
p0 0.008171 ± 1.06e−05
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

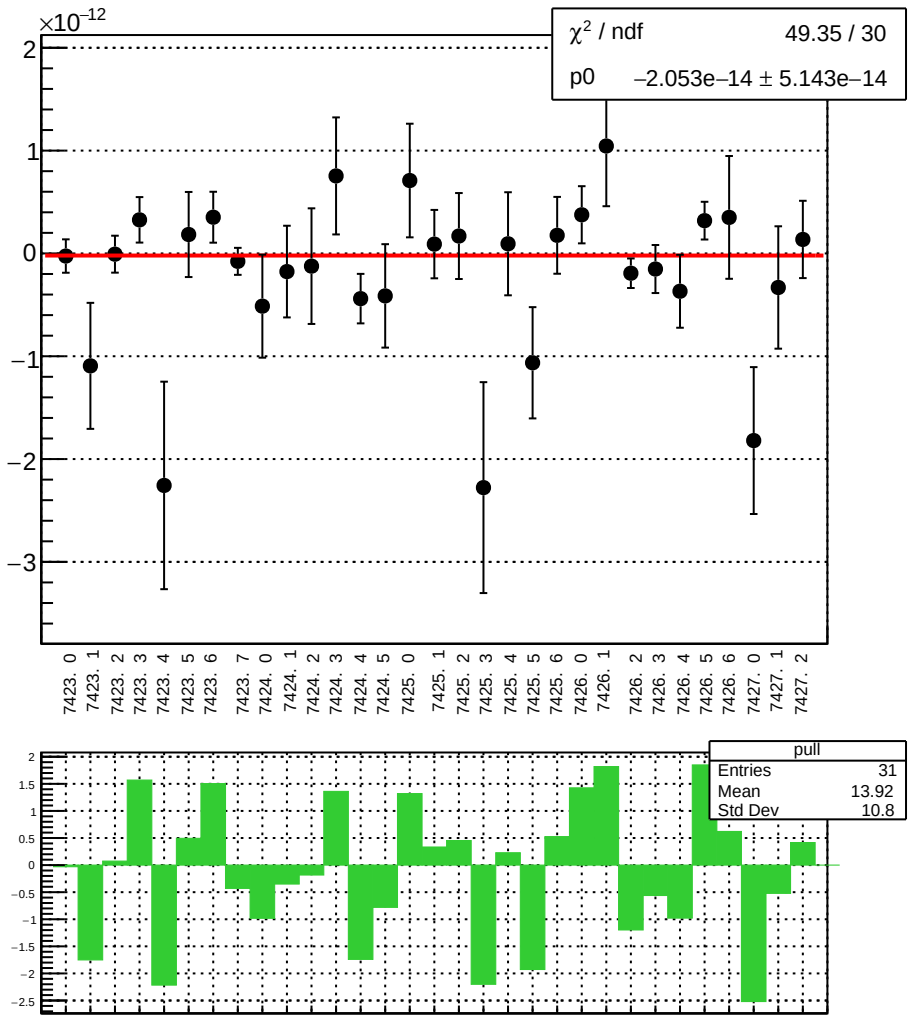

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.63 / 30
p0 −0.105 ± 0.2284
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 241.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.005286
Std Dev 1.252
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

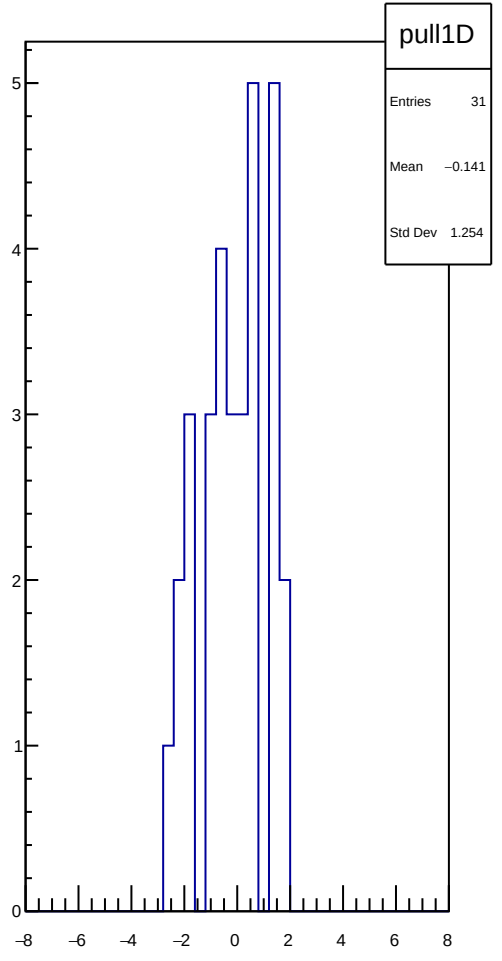

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1964 / 30
p0 124.4 ± 0.1615
145
140
135
130
125
120
115
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

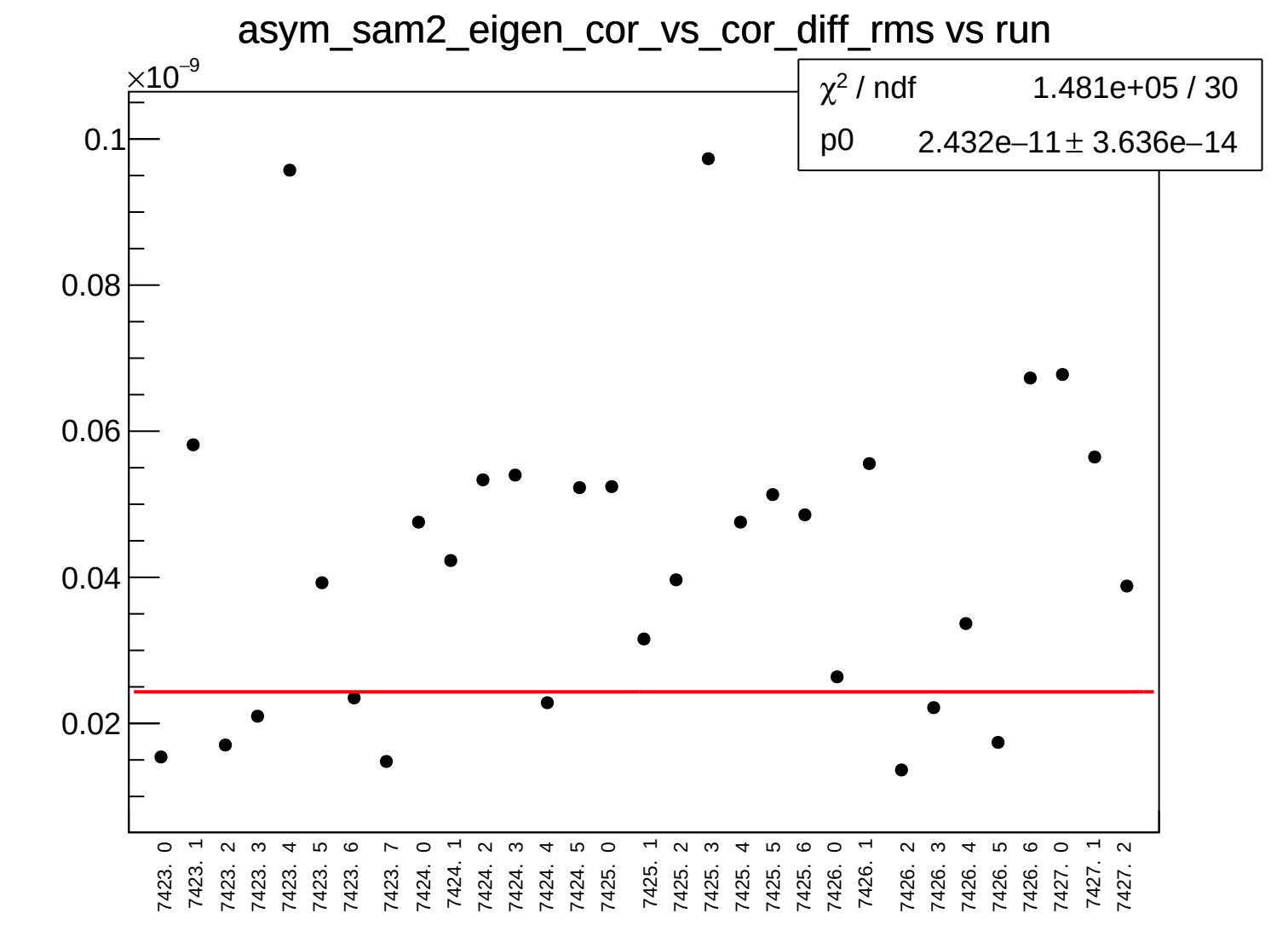

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.63 / 30
p0 −0.105 ± 0.2284
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 241.4
Std Dev 0
2
1
0
−1
−2

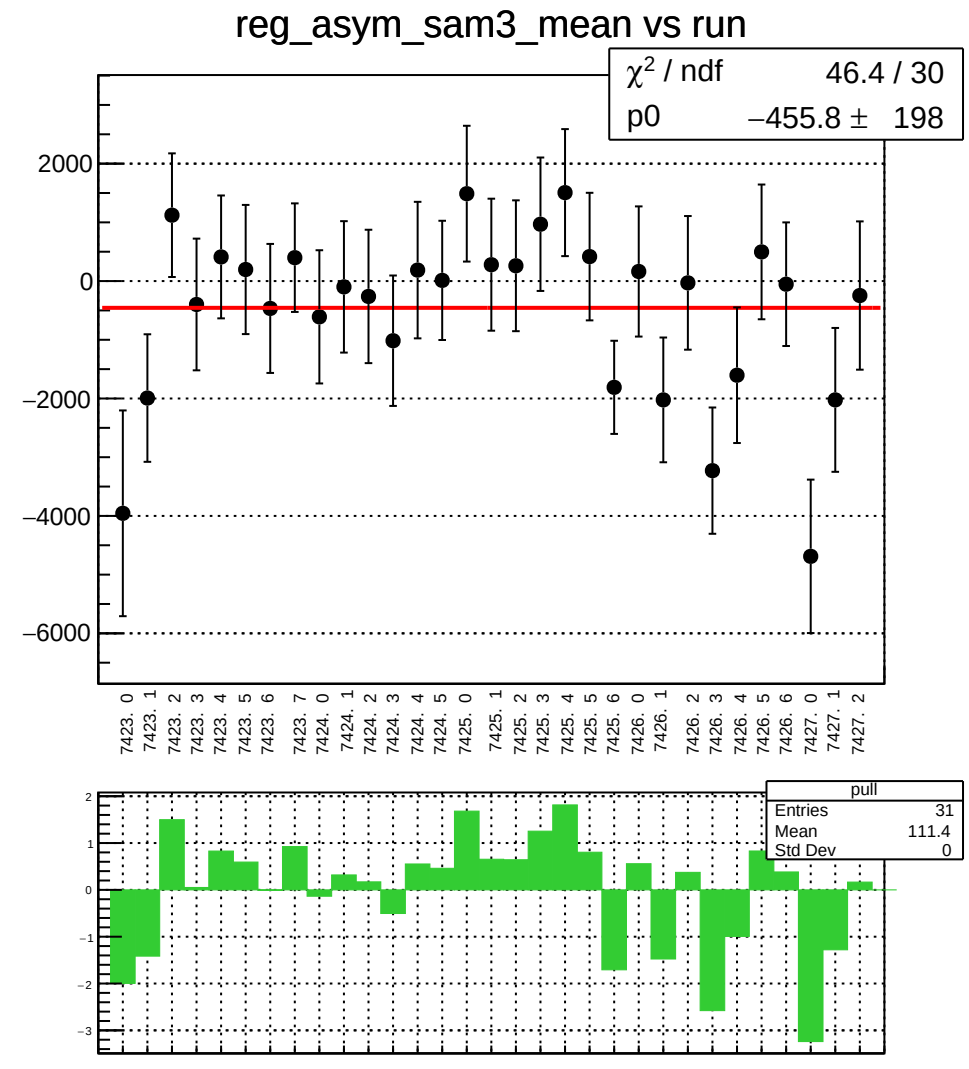

pull1D
Entries 31
Mean 0.005286
Std Dev 1.252
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

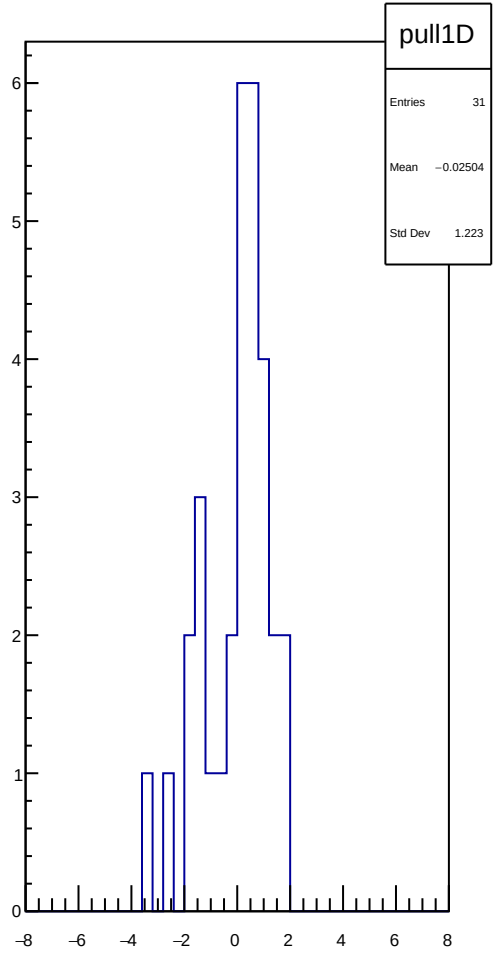

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1964 / 30
p0 124.4 ± 0.1615
145
140
135
130
125
120
115
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

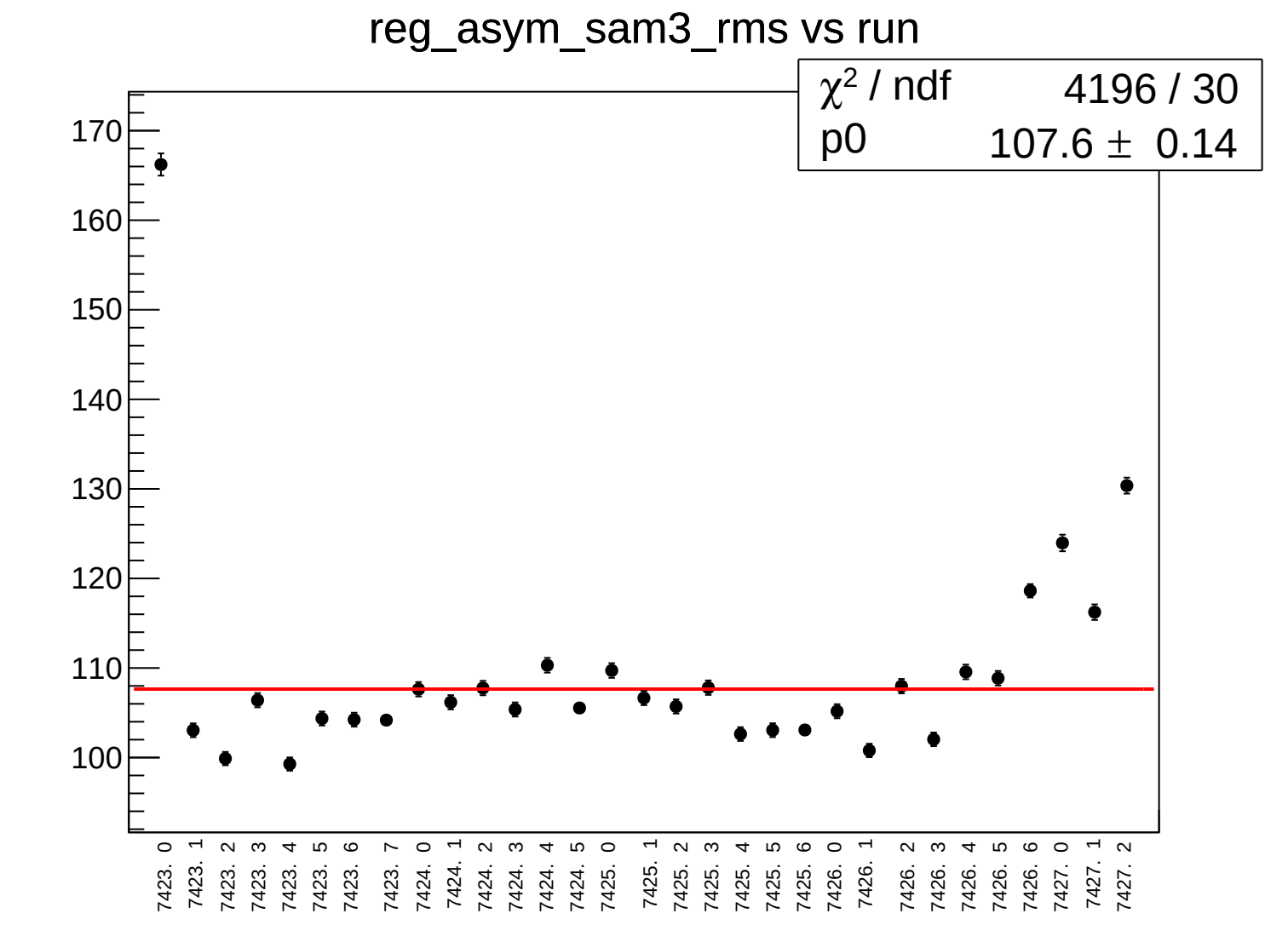

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49.35 / 30
p0 −2.053e−14 ± 5.143e−14
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 13.92
Std Dev 10.8

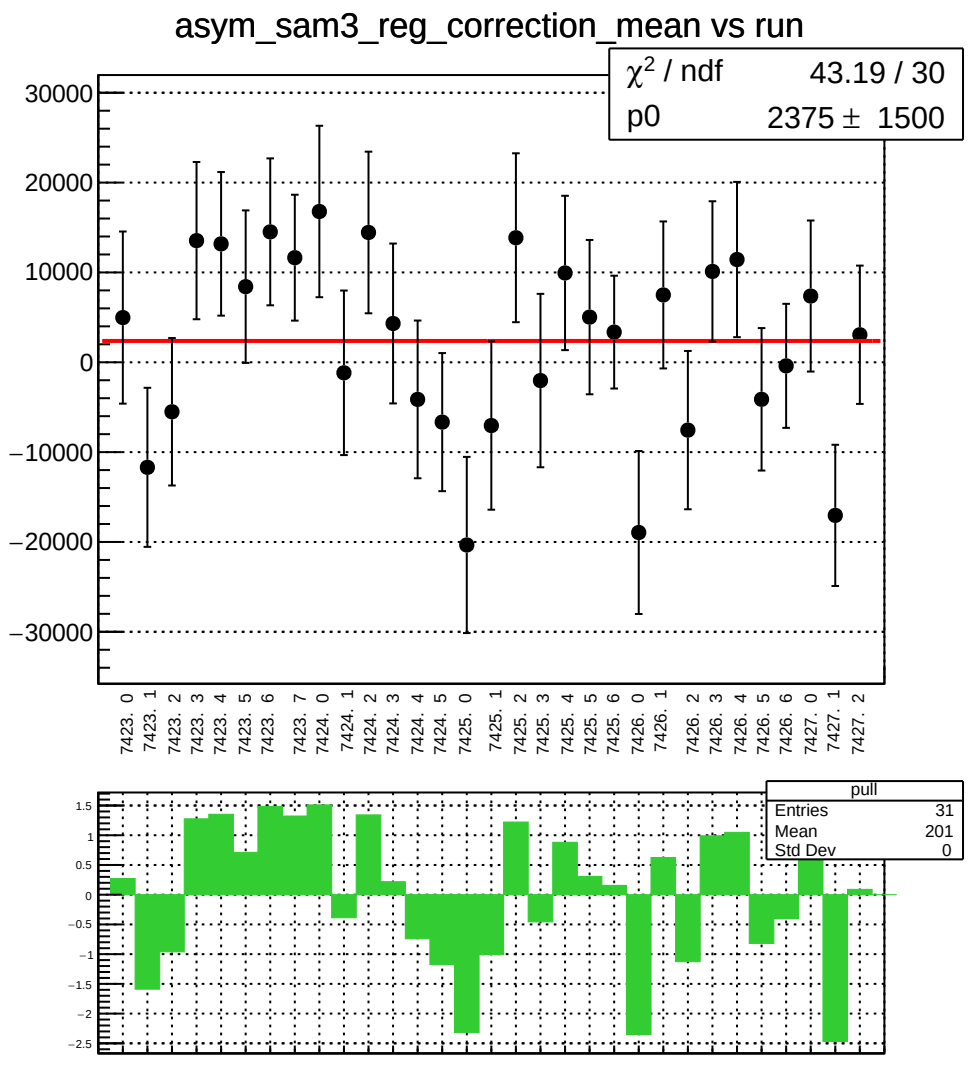

pull1D
Entries 31
Mean −0.141
Std Dev 1.254

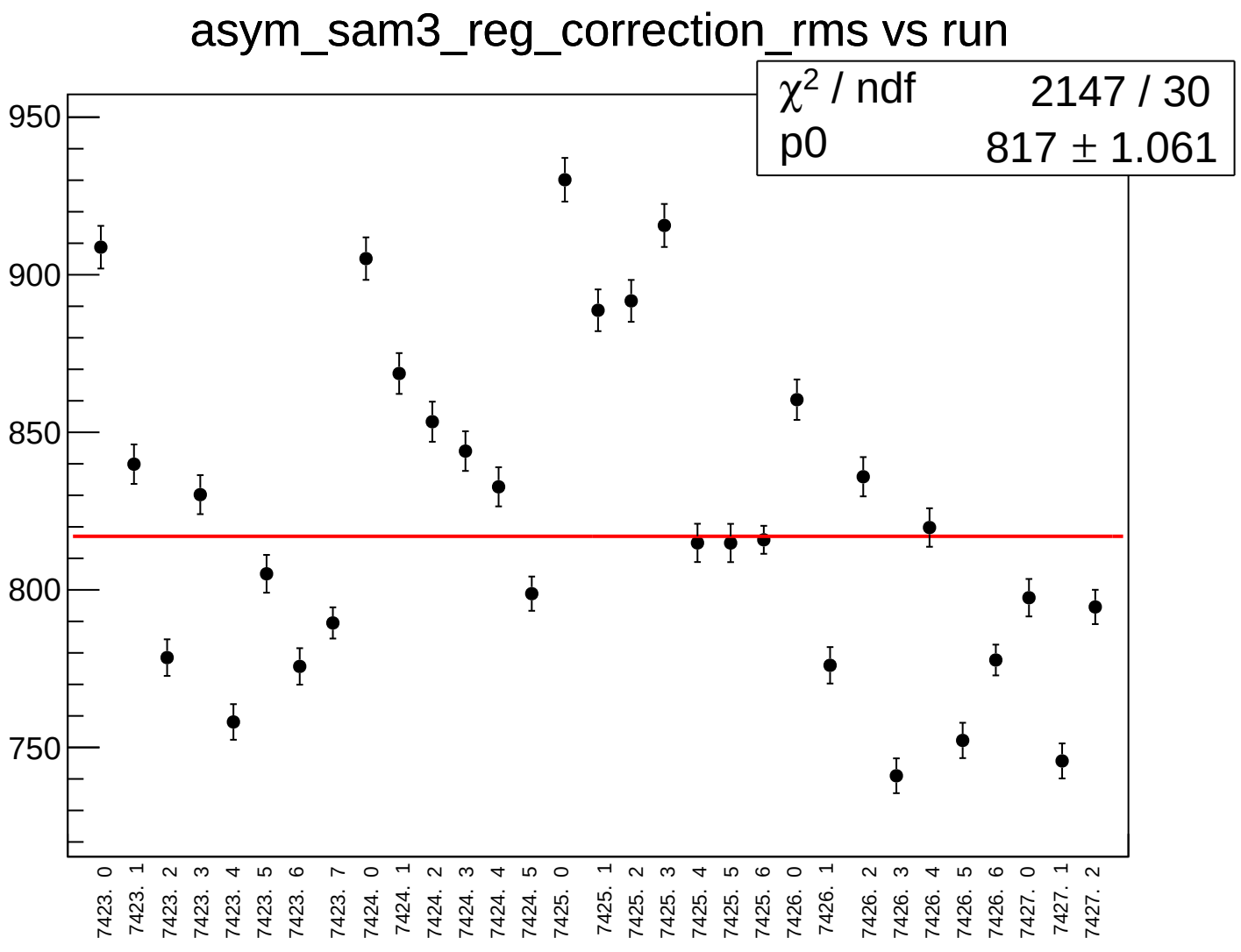

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.481e+05 / 30
p0 2.432e−11 ± 3.636e−14
0.1
0.08
0.06
0.04
0.02
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

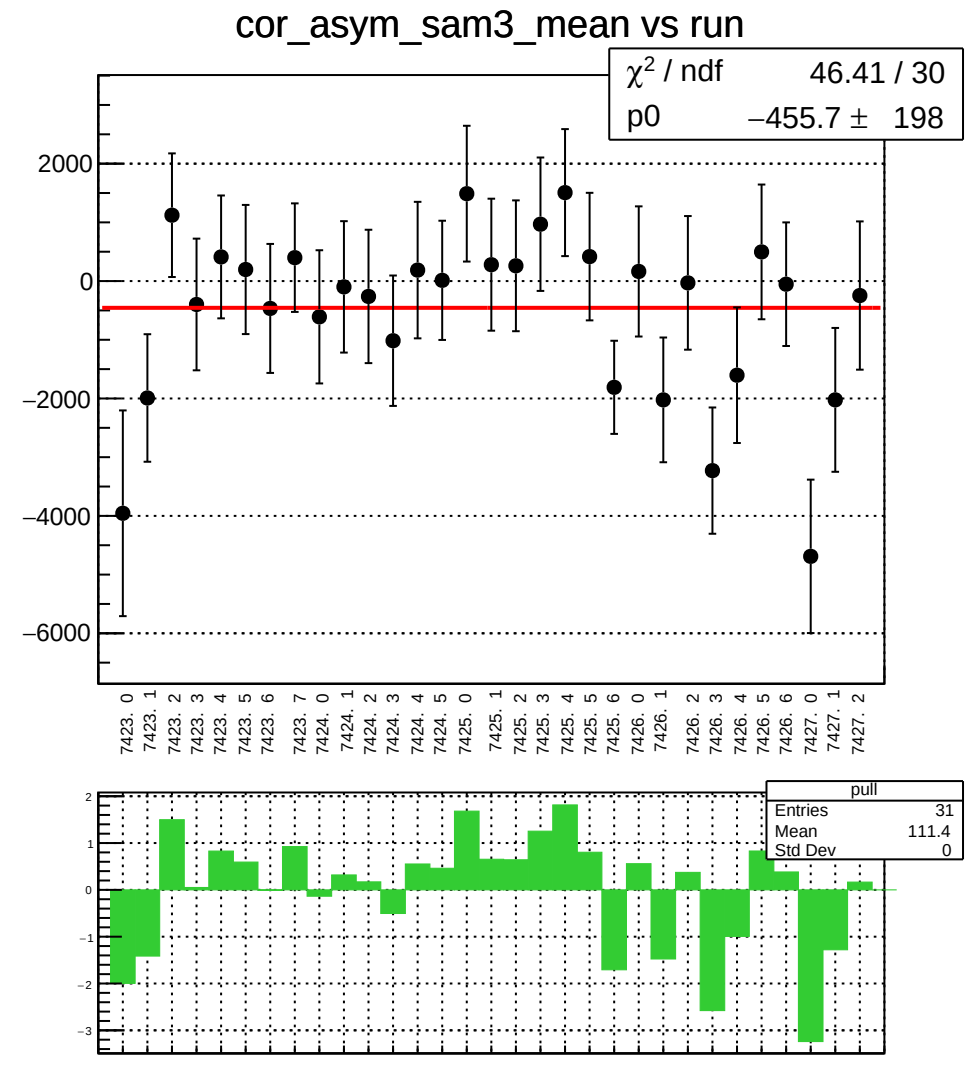

reg_asym_sam3_mean vs run
χ² / ndf 46.4 / 30
p0 −455.8 ± 198
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 111.4
Std Dev 0
2
1
0
−1
−2
−3

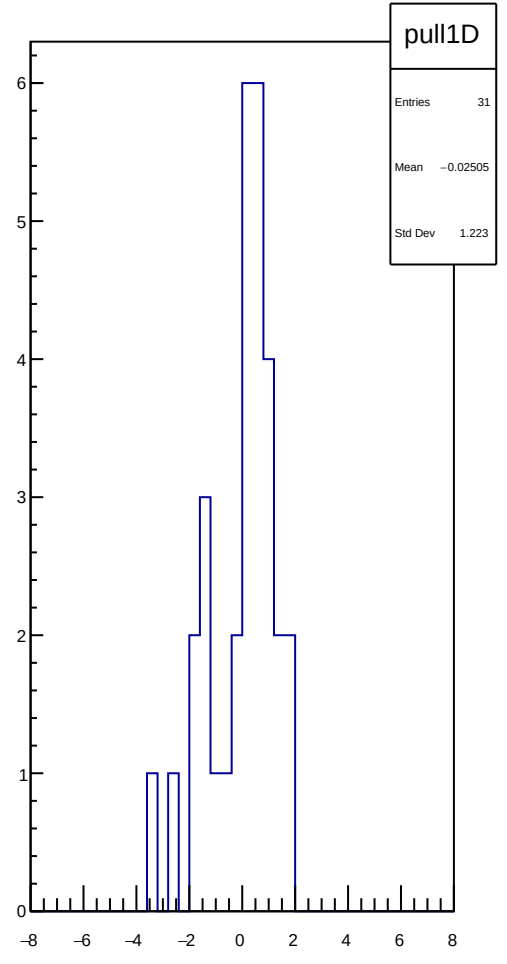

pull1D
Entries 31
Mean −0.02504
Std Dev 1.223
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

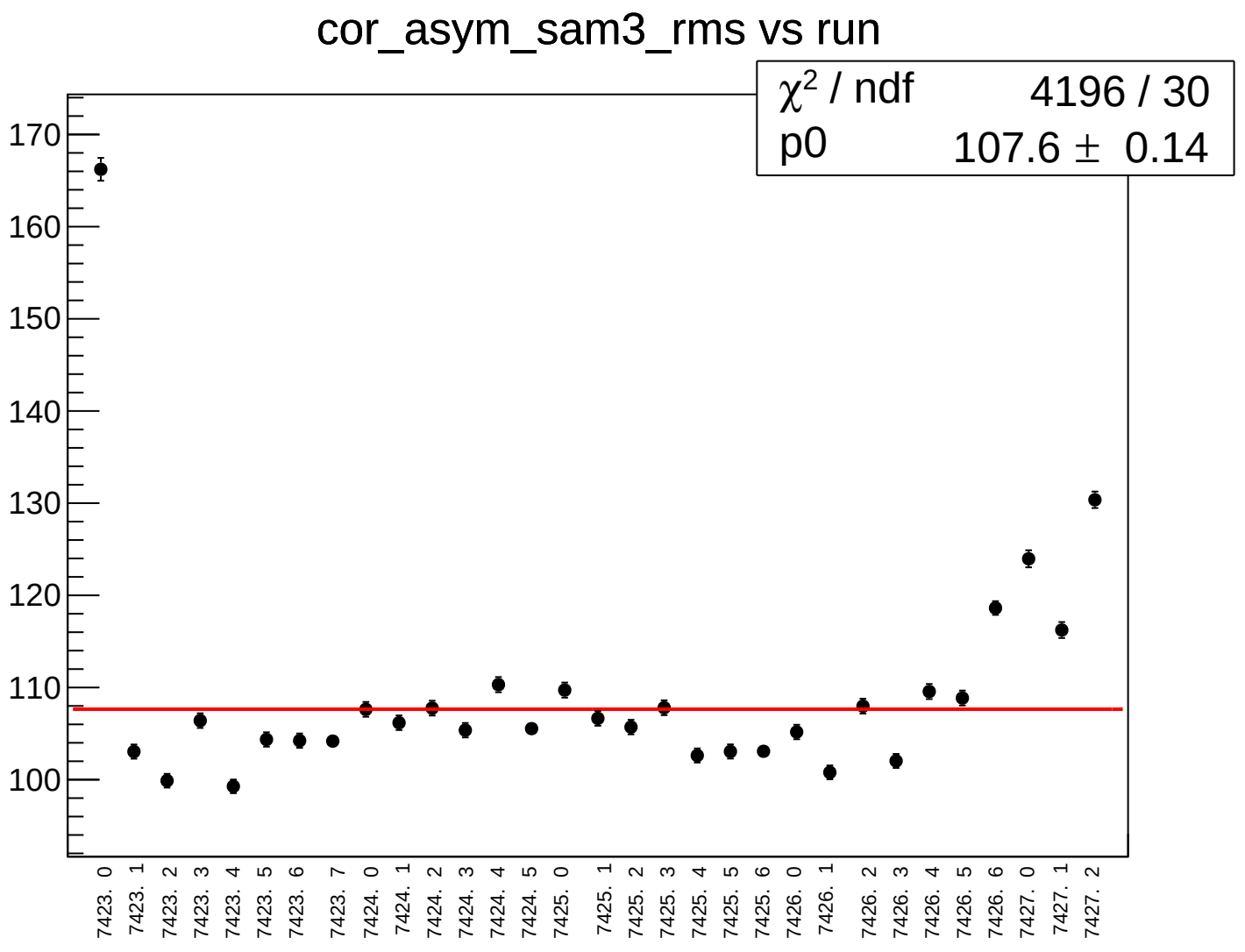

reg_asym_sam3_rms vs run
χ² / ndf 4196 / 30
p0 107.6 ± 0.14
170
160
150
140
130
120
110
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

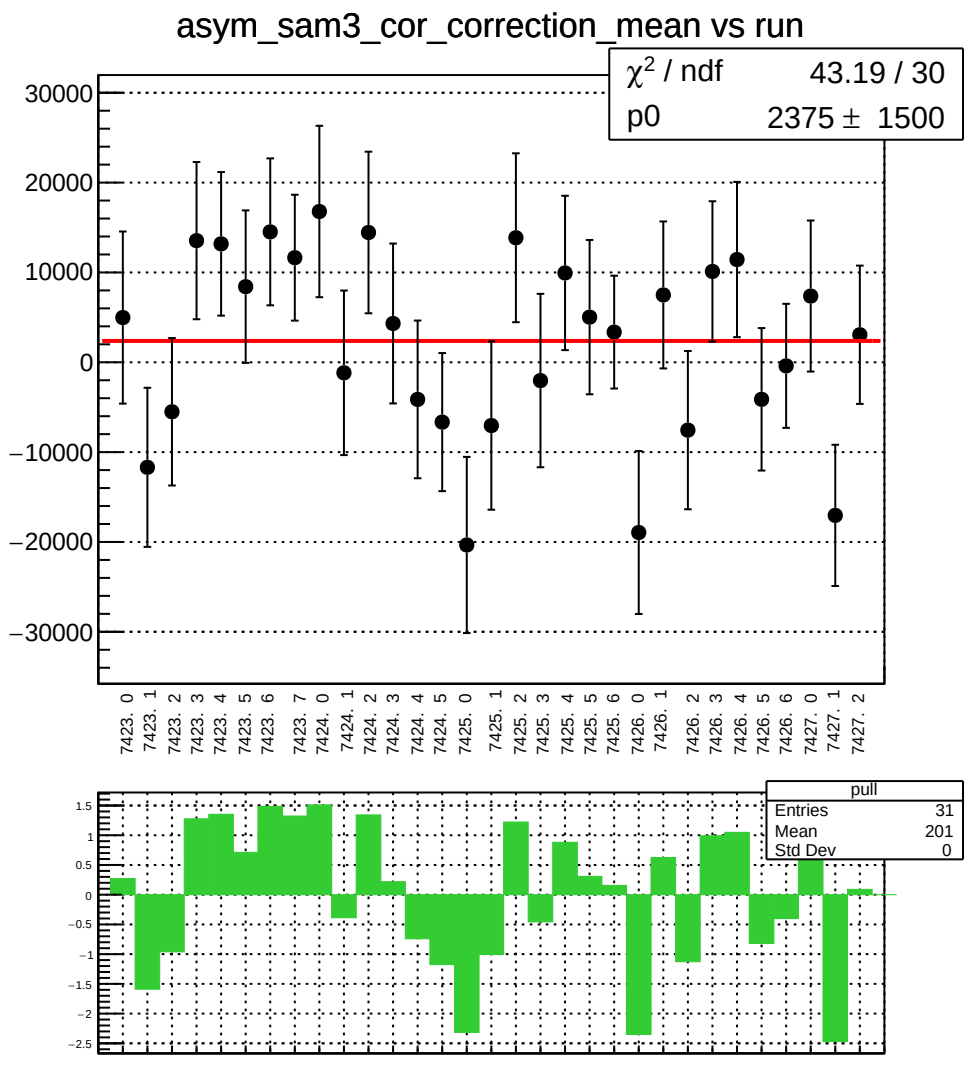

asym_sam3_reg_correction_mean vs run
χ² / ndf 43.19 / 30
p0 2375 ± 1500
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 201
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01274
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

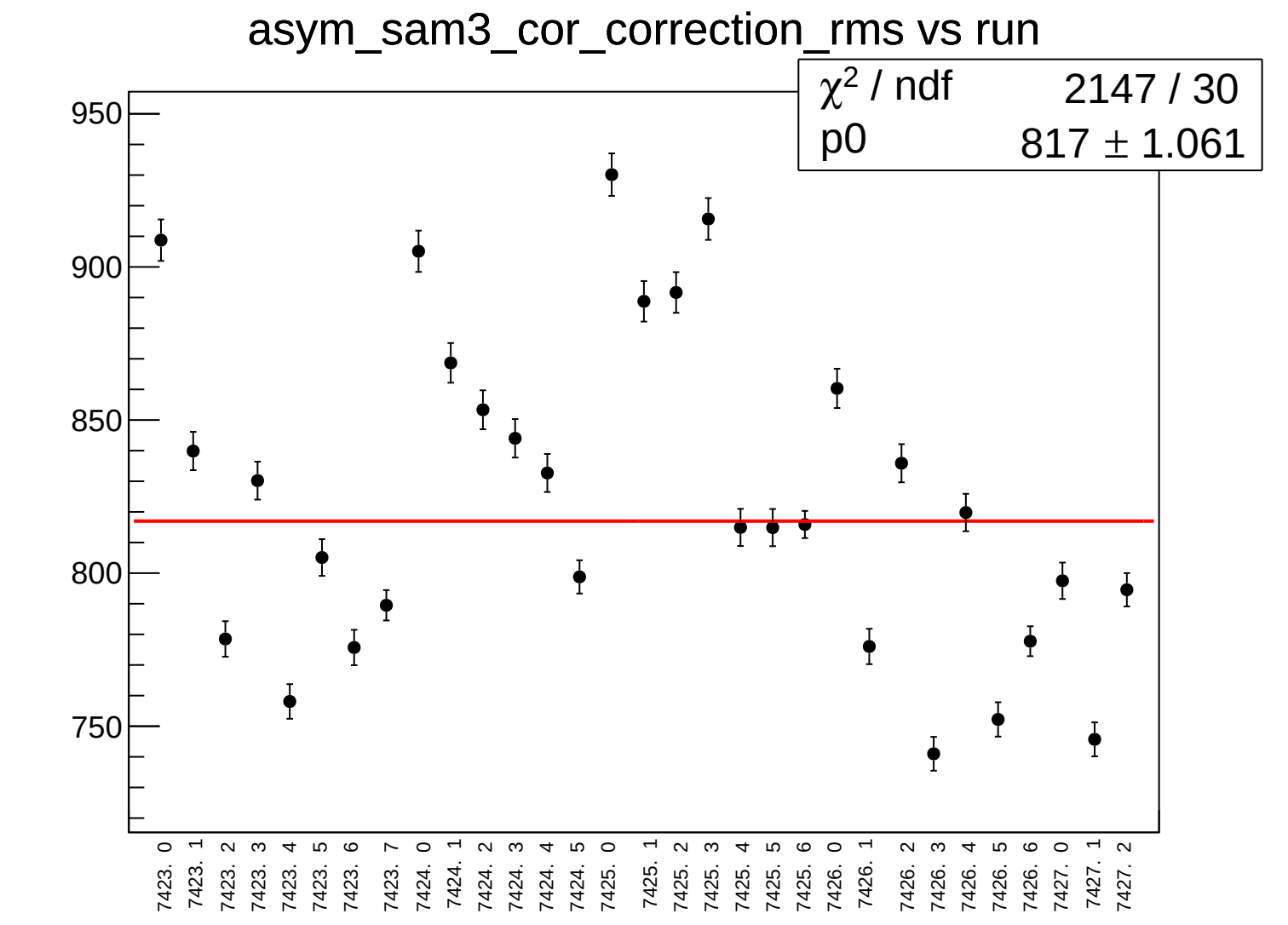

asym_sam3_reg_correction_rms vs run
χ² / ndf 2147 / 30
p0 817 ± 1.061
950
900
850
800
750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

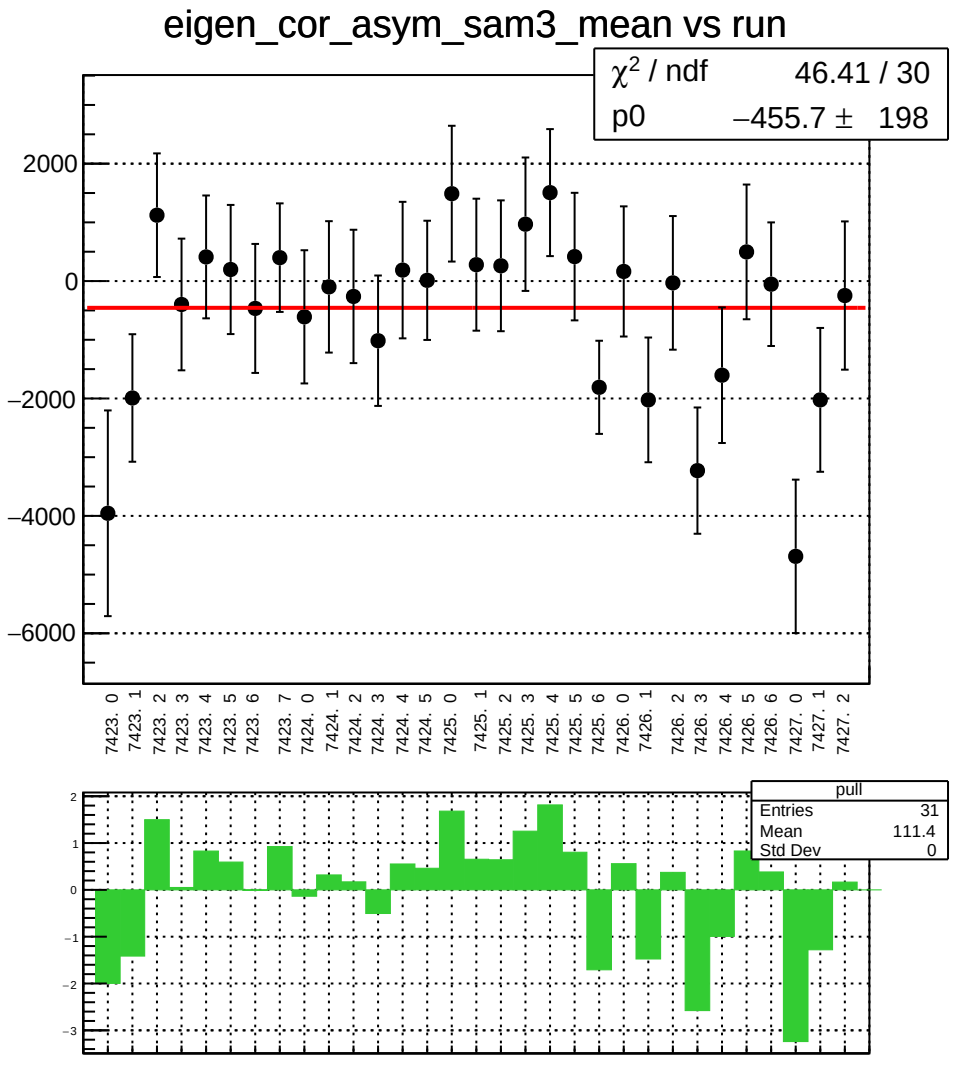

cor_asym_sam3_mean vs run
χ² / ndf 46.41 / 30
p0 −455.7 ± 198
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 111.4
Std Dev 0
2
1
0
−1
−2
−3

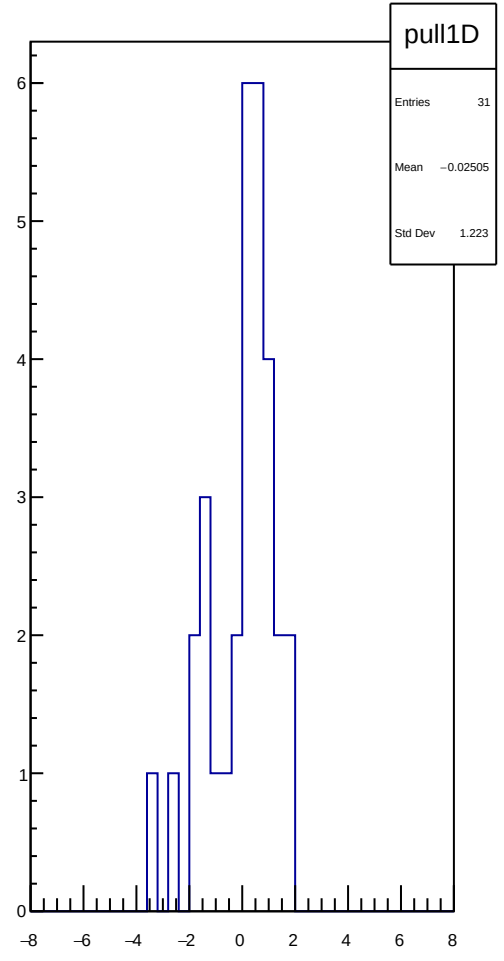

pull1D
Entries 31
Mean −0.02505
Std Dev 1.223
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

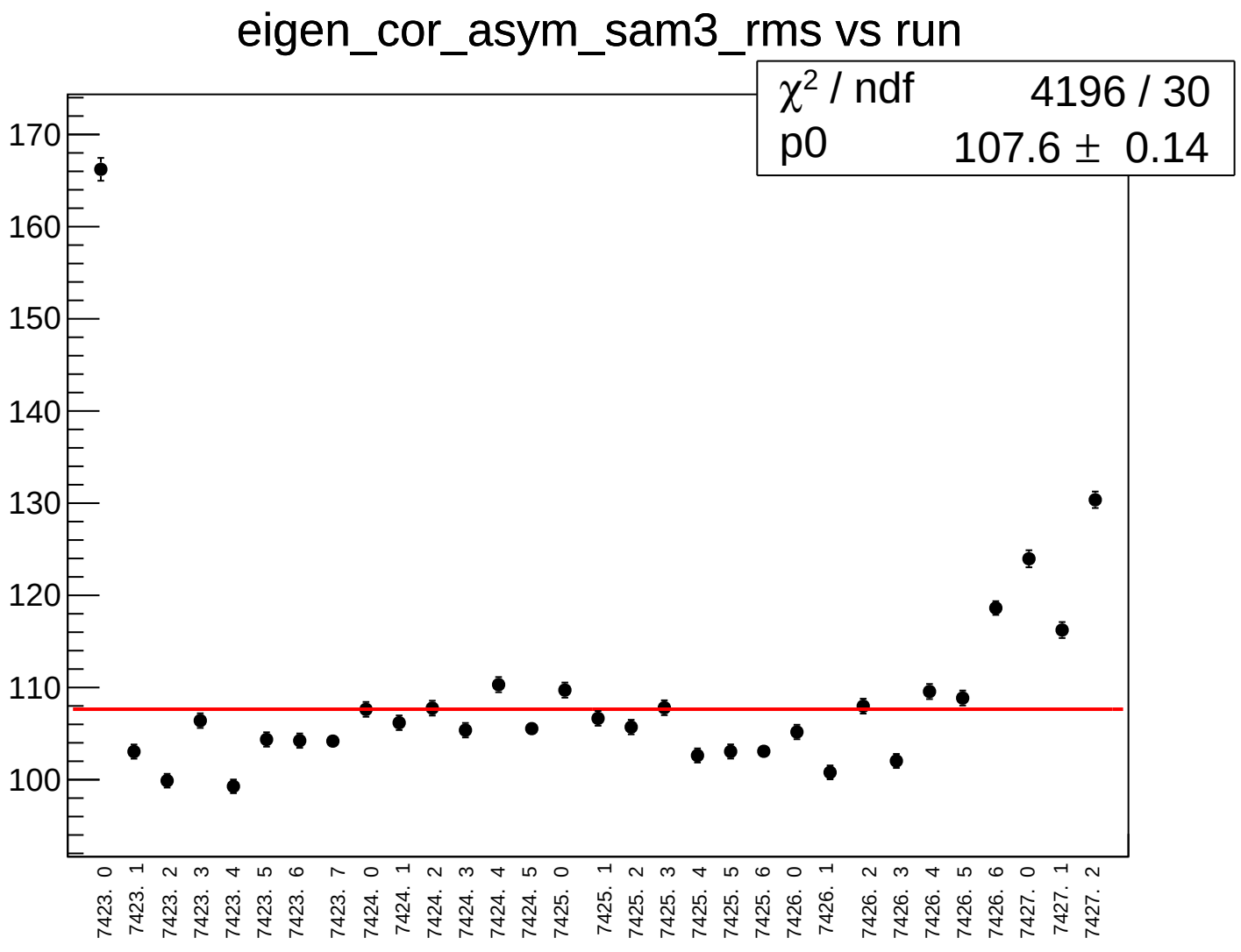

cor_asym_sam3_rms vs run
χ² / ndf 4196 / 30
p0 107.6 ± 0.14
170
160
150
140
130
120
110
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

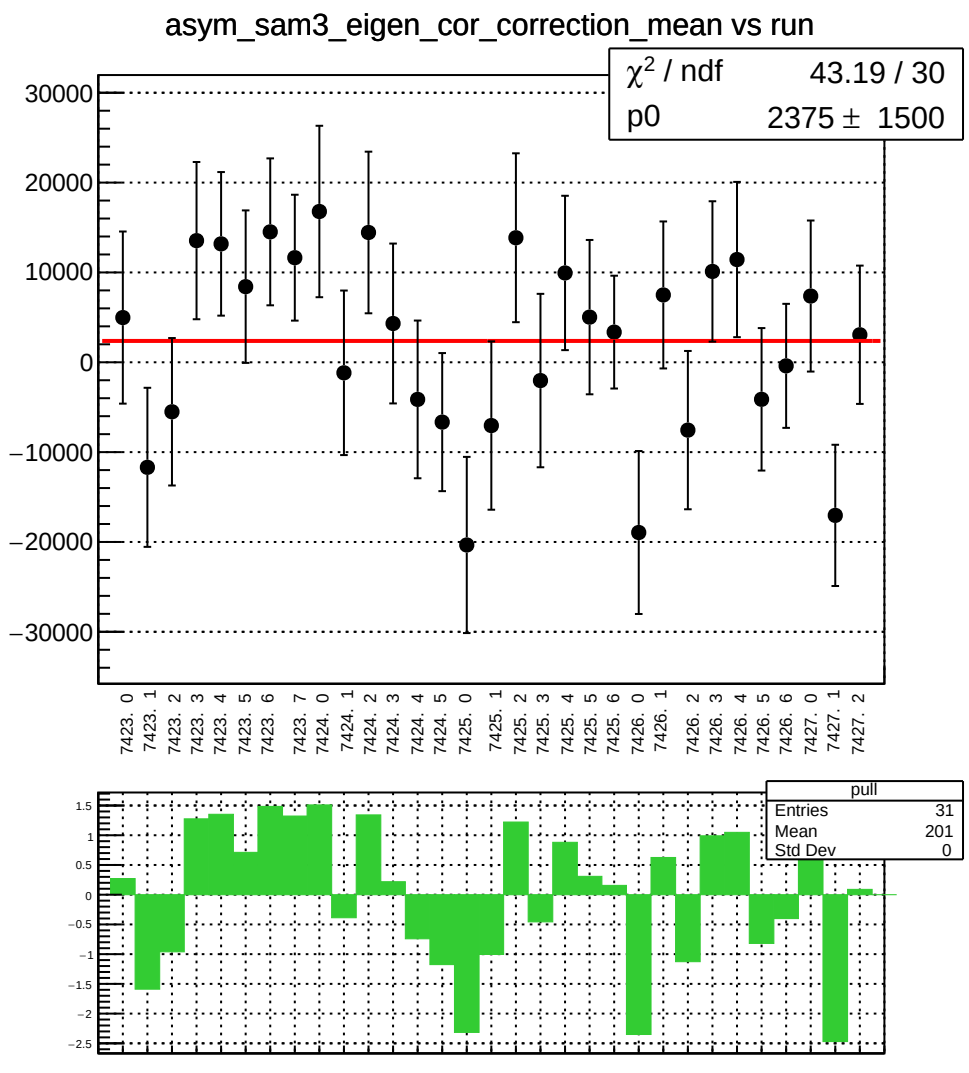

asym_sam3_cor_correction_mean vs run
χ² / ndf 43.19 / 30
p0 2375 ± 1500
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 201
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01274
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

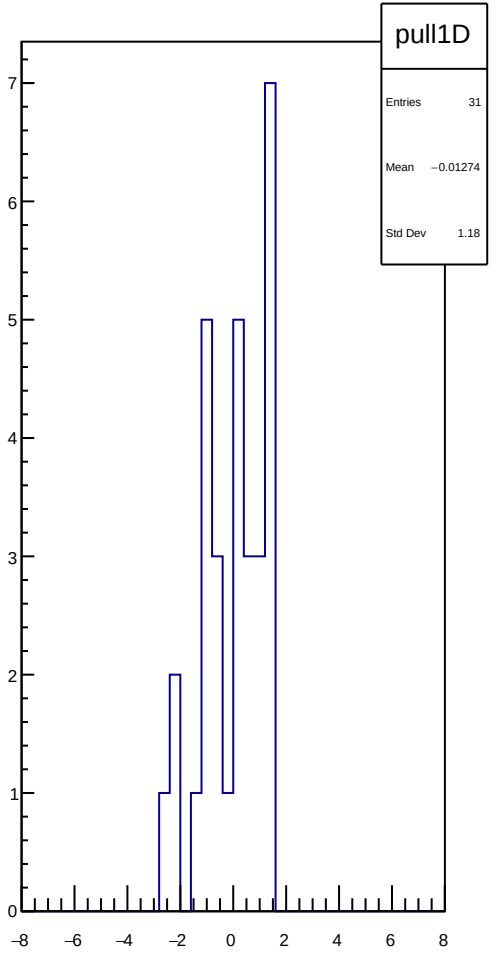

asym_sam3_cor_correction_rms vs run
χ² / ndf 2147 / 30
p0 817 ± 1.061
950
900
850
800
750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

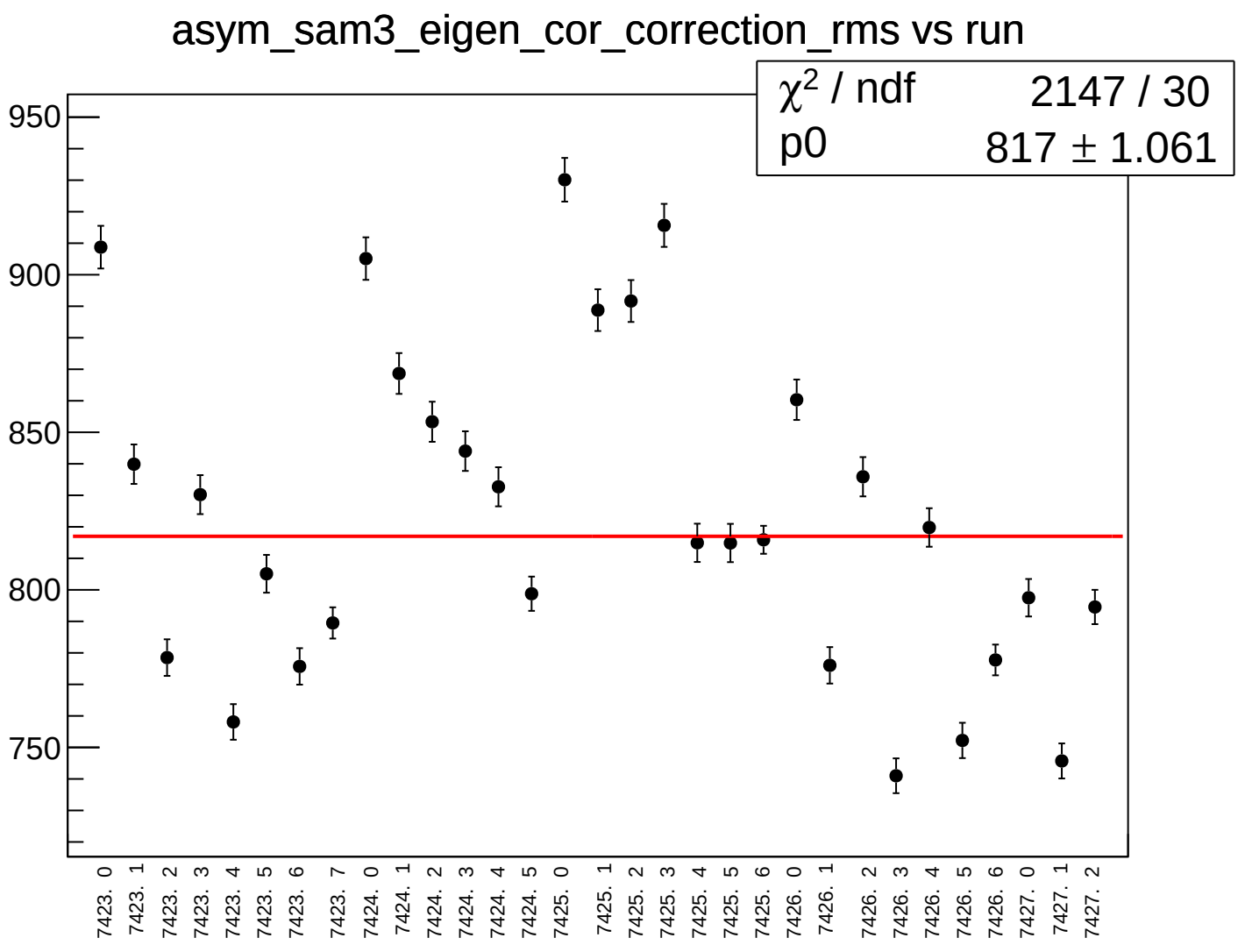

eigen_cor_asym_sam3_mean vs run
χ² / ndf 46.41 / 30
p0 −455.7 ± 198
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 111.4
Std Dev 0
2
1
0
−1
−2
−3

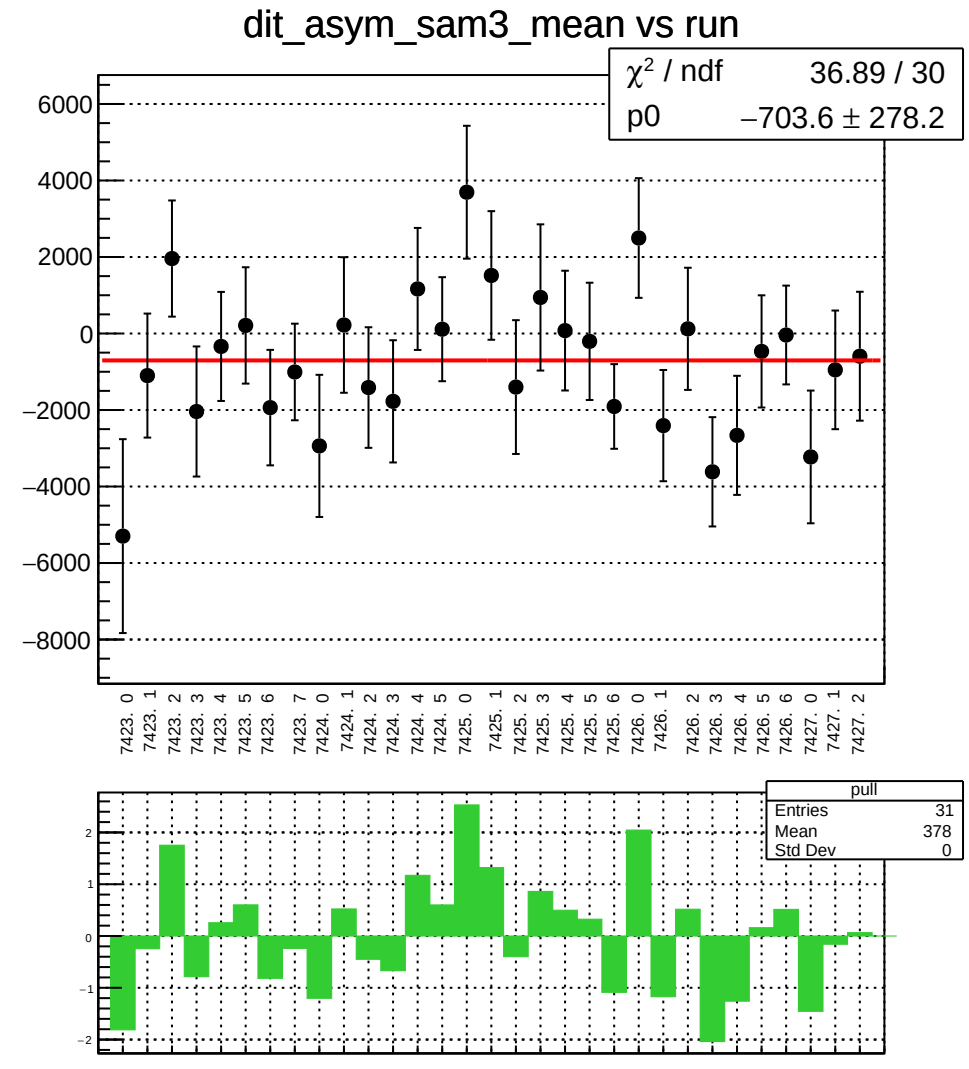

pull1D
Entries 31
Mean −0.02505
Std Dev 1.223
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

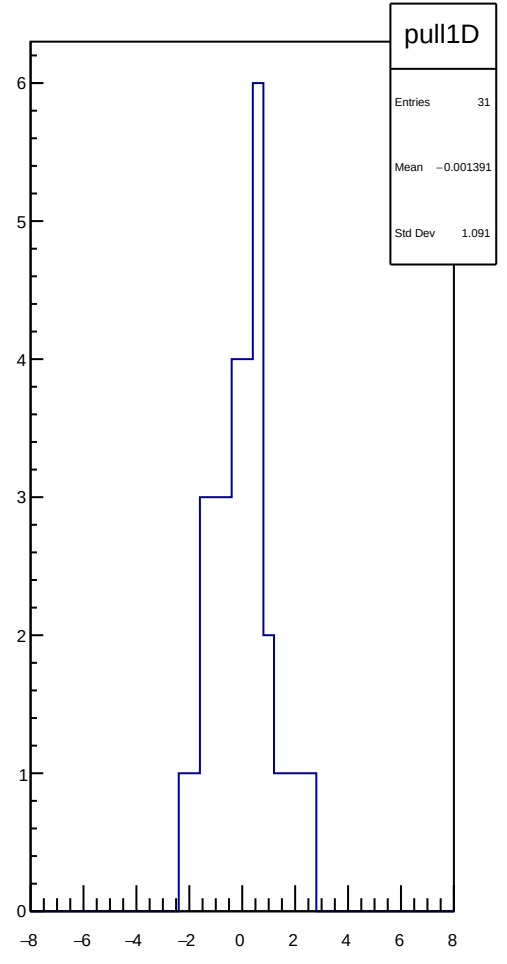

eigen_cor_asym_sam3_rms vs run
χ² / ndf 4196 / 30
p0 107.6 ± 0.14
170
160
150
140
130
120
110
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

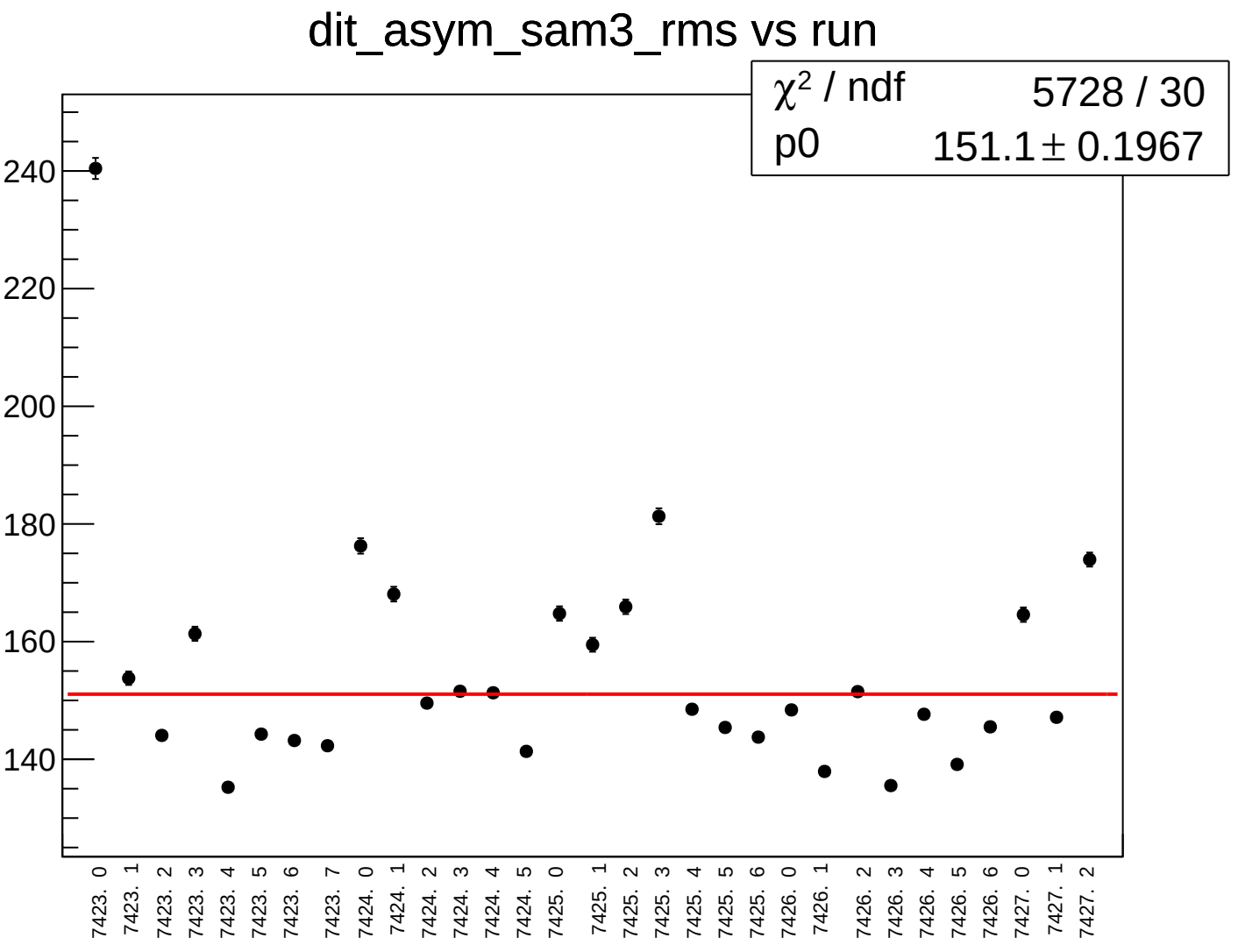

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 43.19 / 30
p0 2375 ± 1500
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 201
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

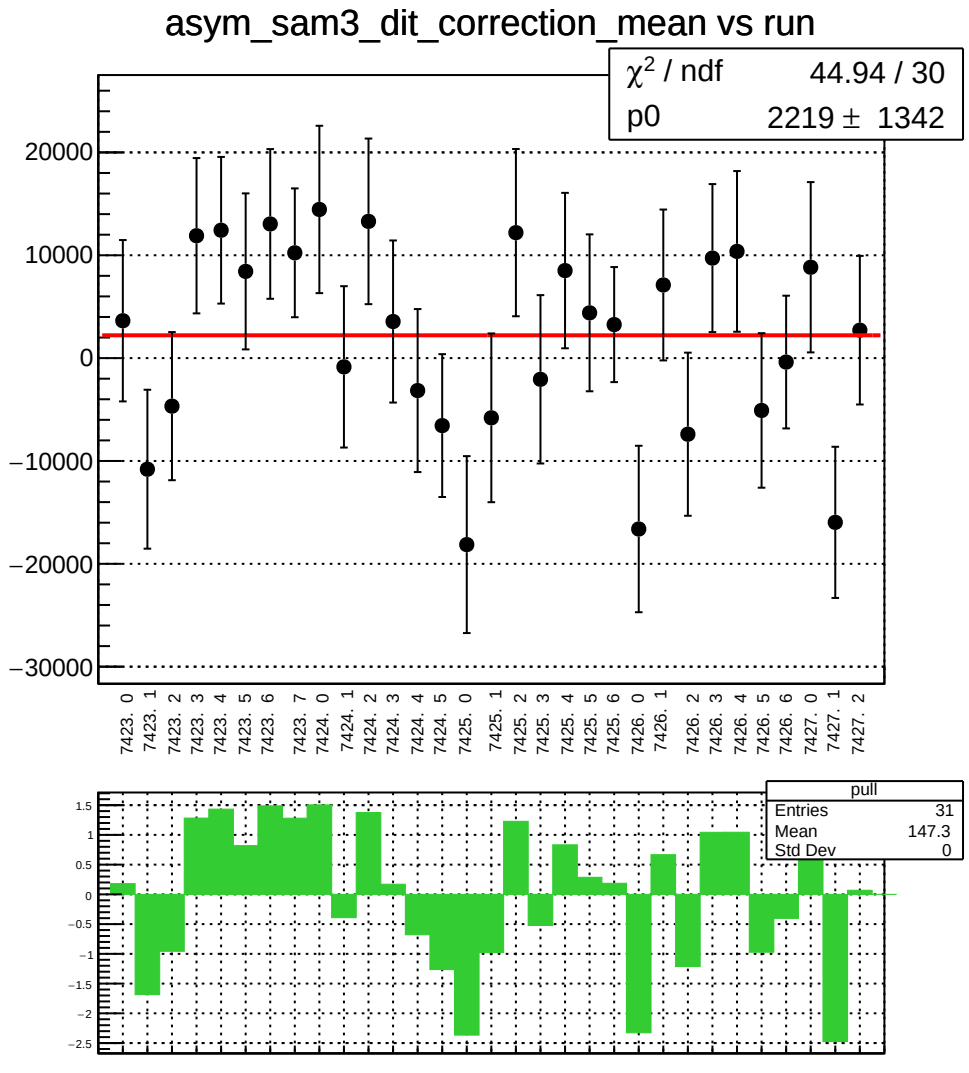

pull1D
Entries 31
Mean −0.01274
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

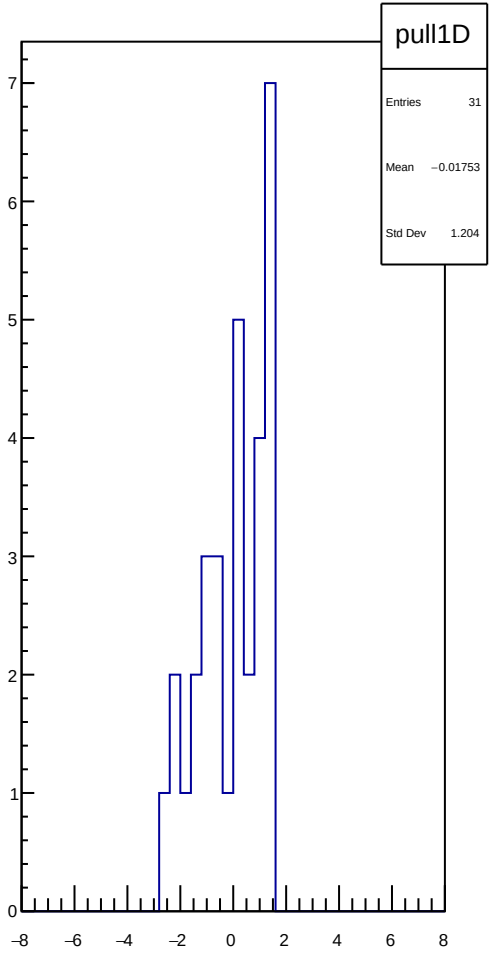

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 2147 / 30
p0 817 ± 1.061
950
900
850
800
750
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

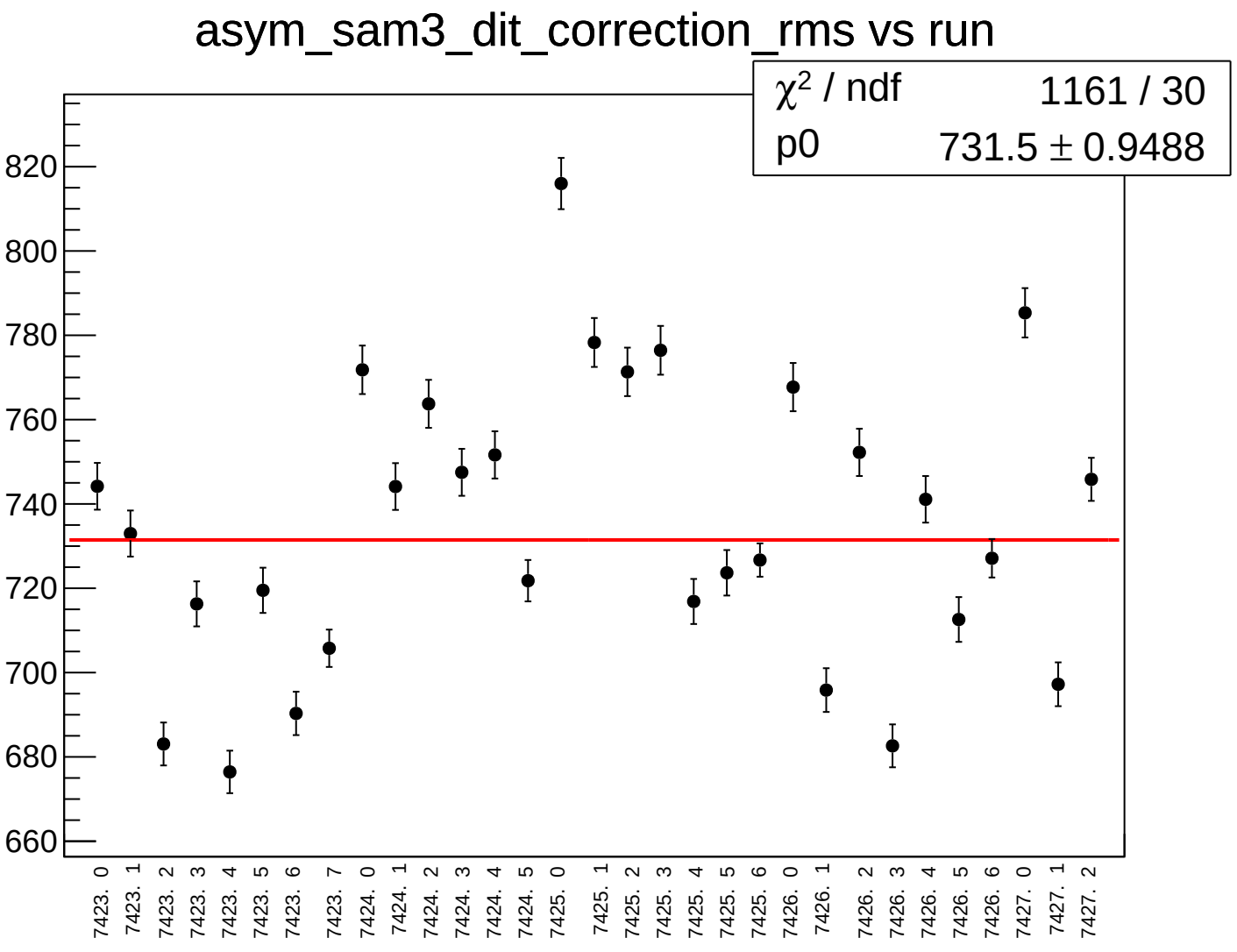

dit_asym_sam3_mean vs run
χ² / ndf 36.89 / 30
p0 −703.6 ± 278.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 378
Std Dev 0
2
1
0
−1
−2

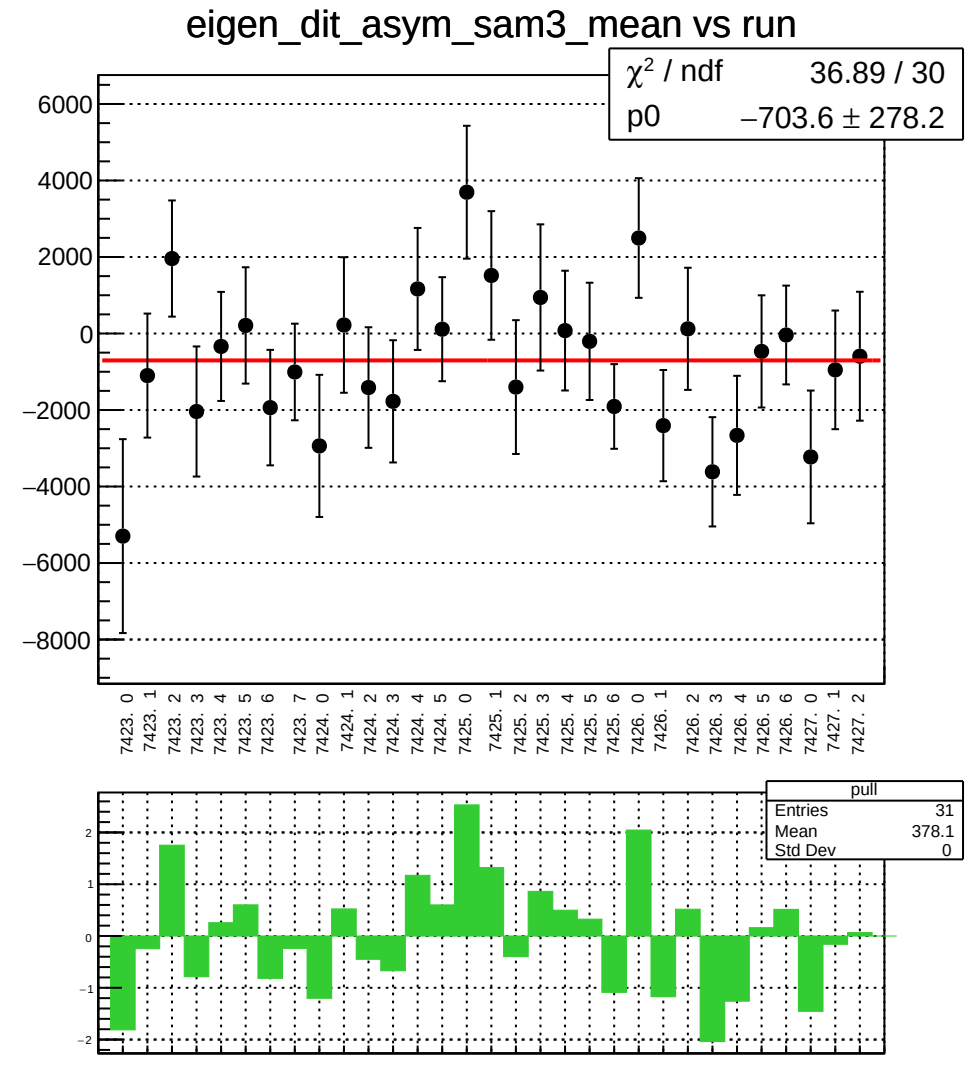

pull1D
Entries 31
Mean −0.001391
Std Dev 1.091
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

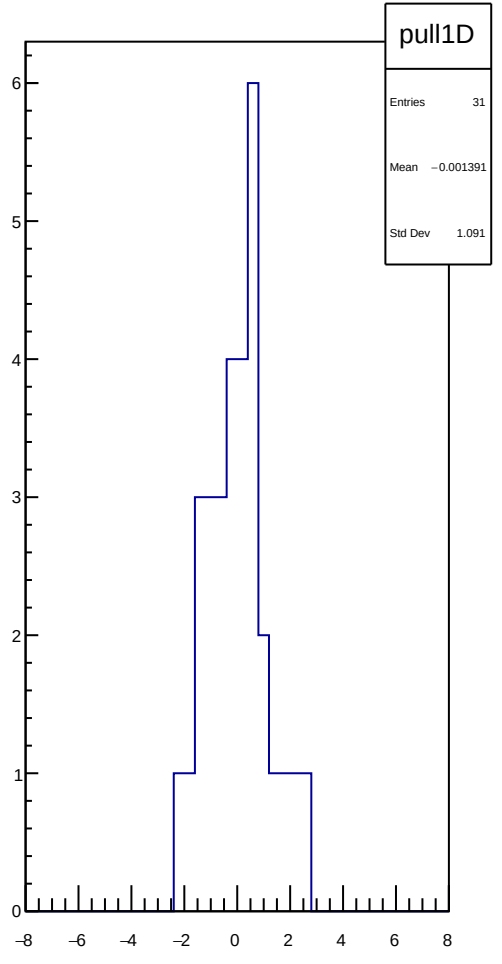

dit_asym_sam3_rms vs run
χ² / ndf 5728 / 30
p0 151.1 ± 0.1967
240
220
200
180
160
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

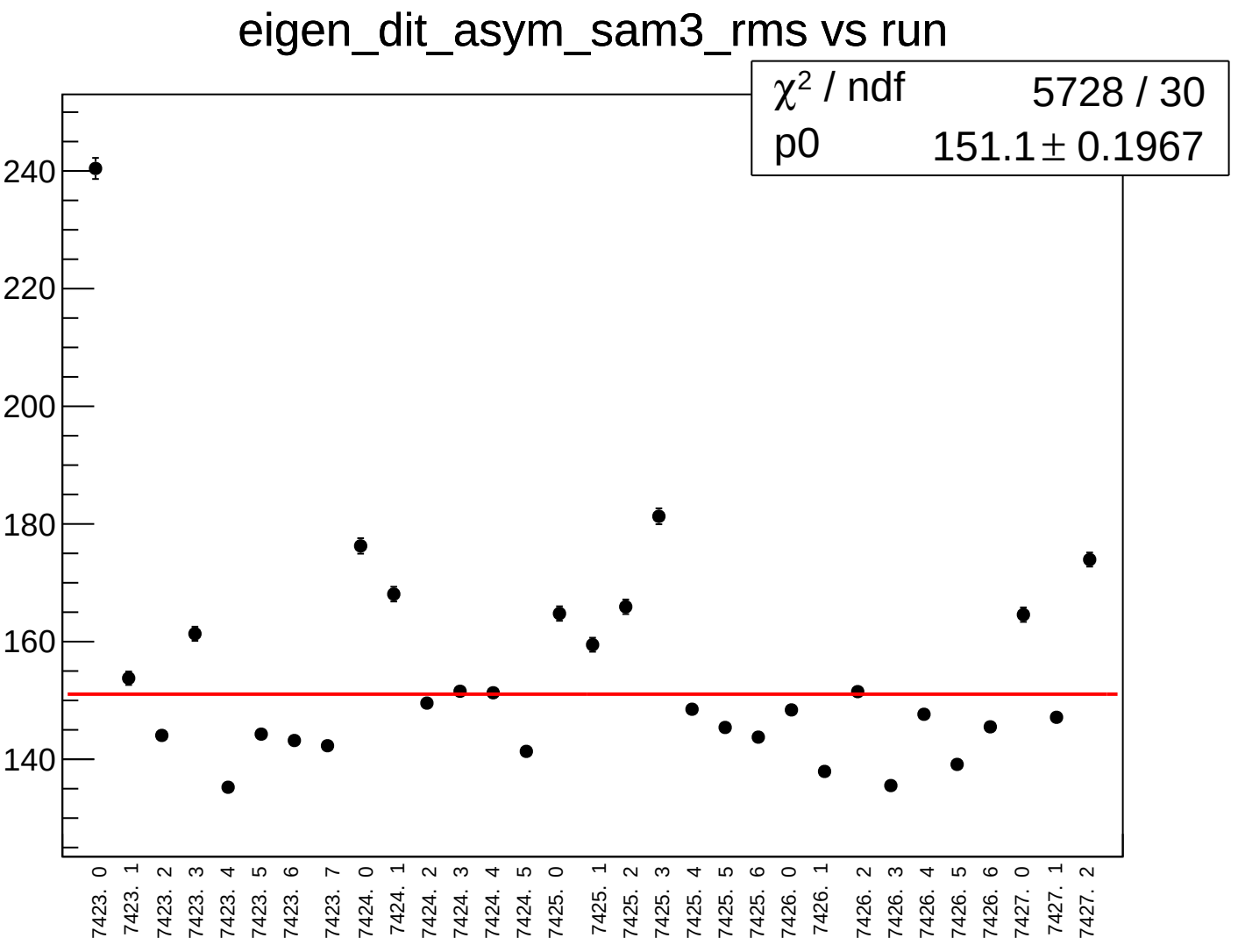

asym_sam3_dit_correction_mean vs run
χ² / ndf 44.94 / 30
p0 2219 ± 1342
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 147.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

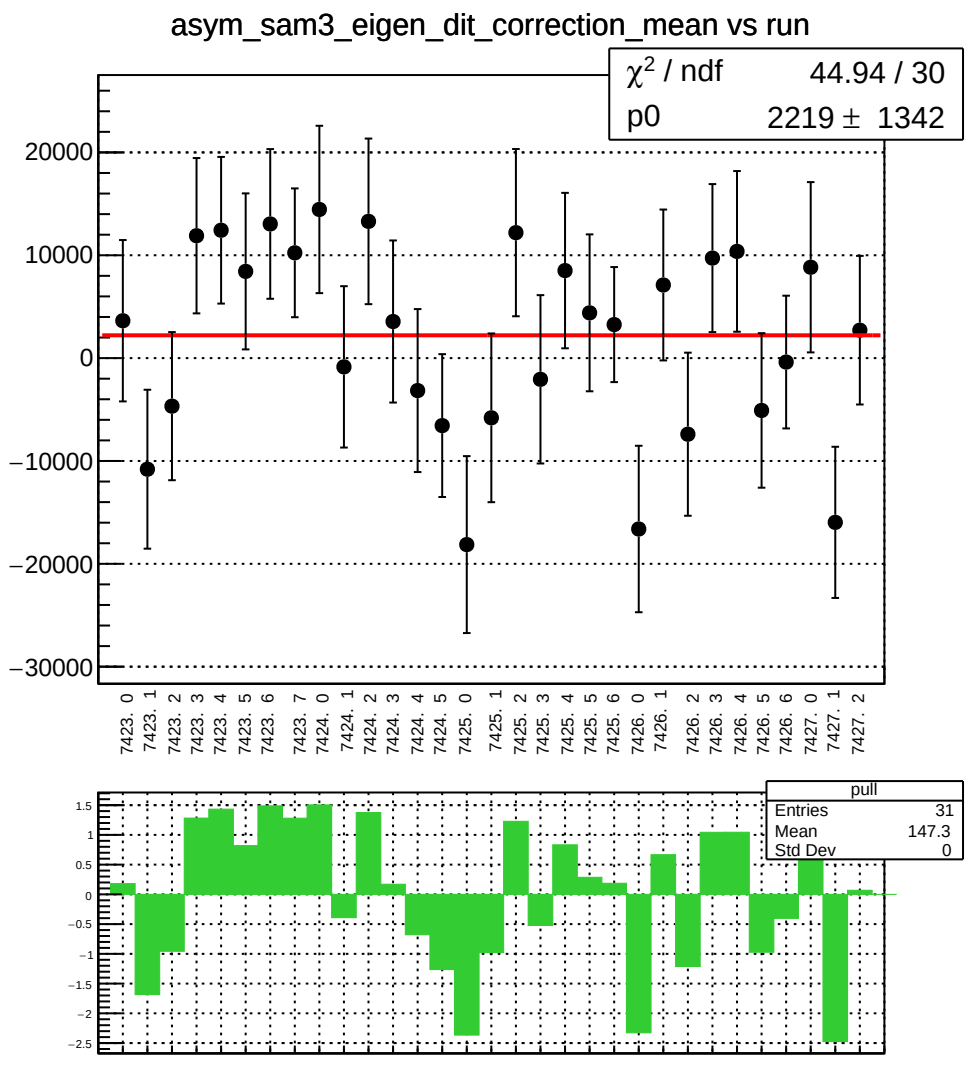

pull1D
Entries 31
Mean −0.01753
Std Dev 1.204
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

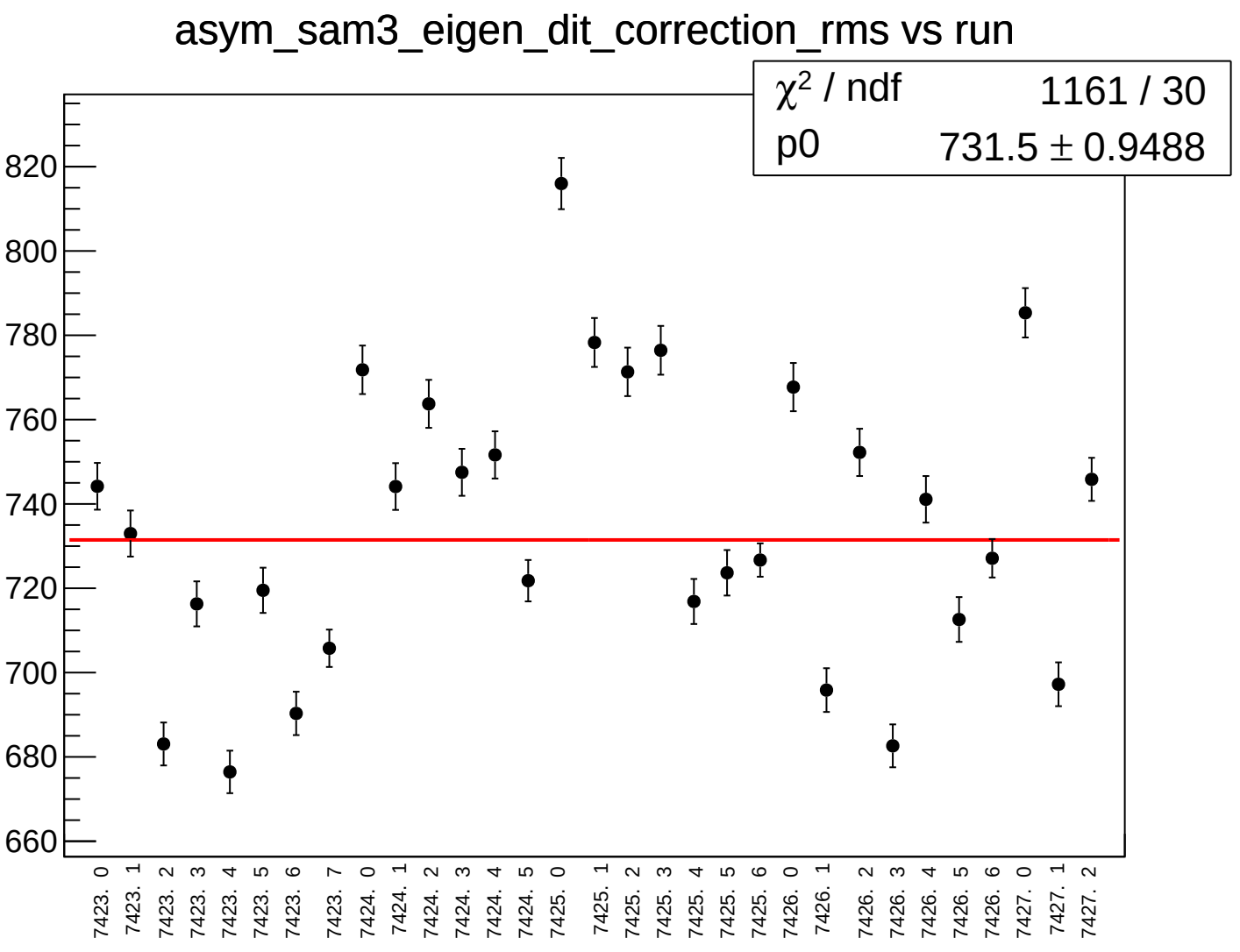

asym_sam3_dit_correction_rms vs run
χ² / ndf 1161 / 30
p0 731.5 ± 0.9488
820
800
780
760
740
720
700
680
660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

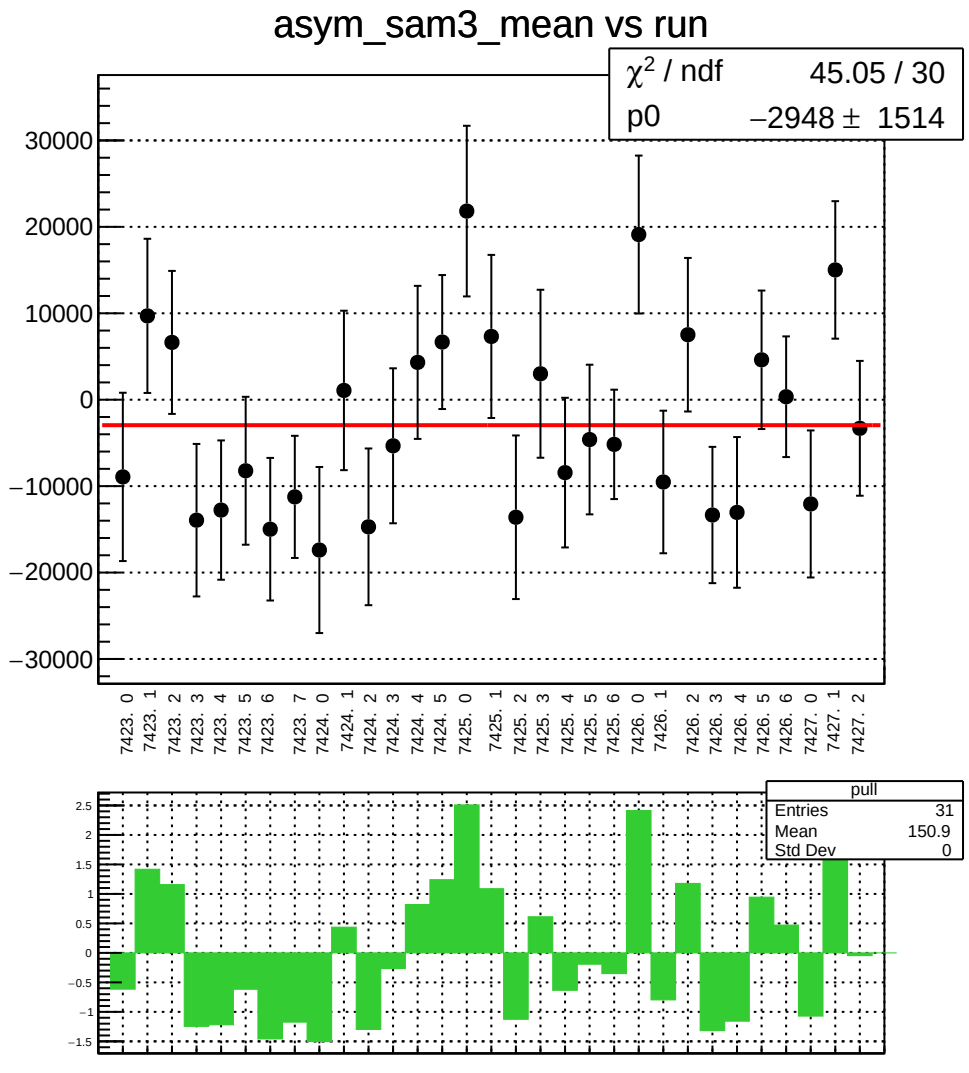

eigen_dit_asym_sam3_mean vs run
χ² / ndf 36.89 / 30
p0 −703.6 ± 278.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 378.1
Std Dev 0
2
1
0
−1
−2

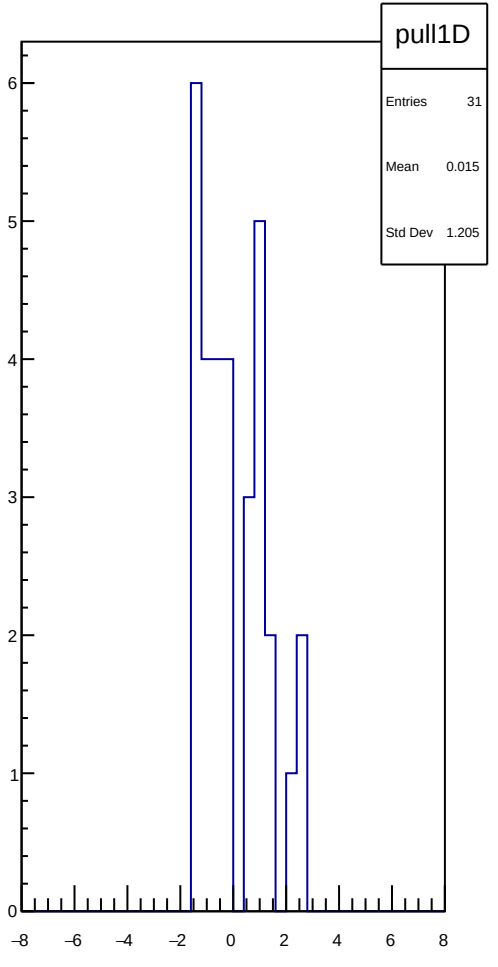

pull1D
Entries 31
Mean −0.001391
Std Dev 1.091
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

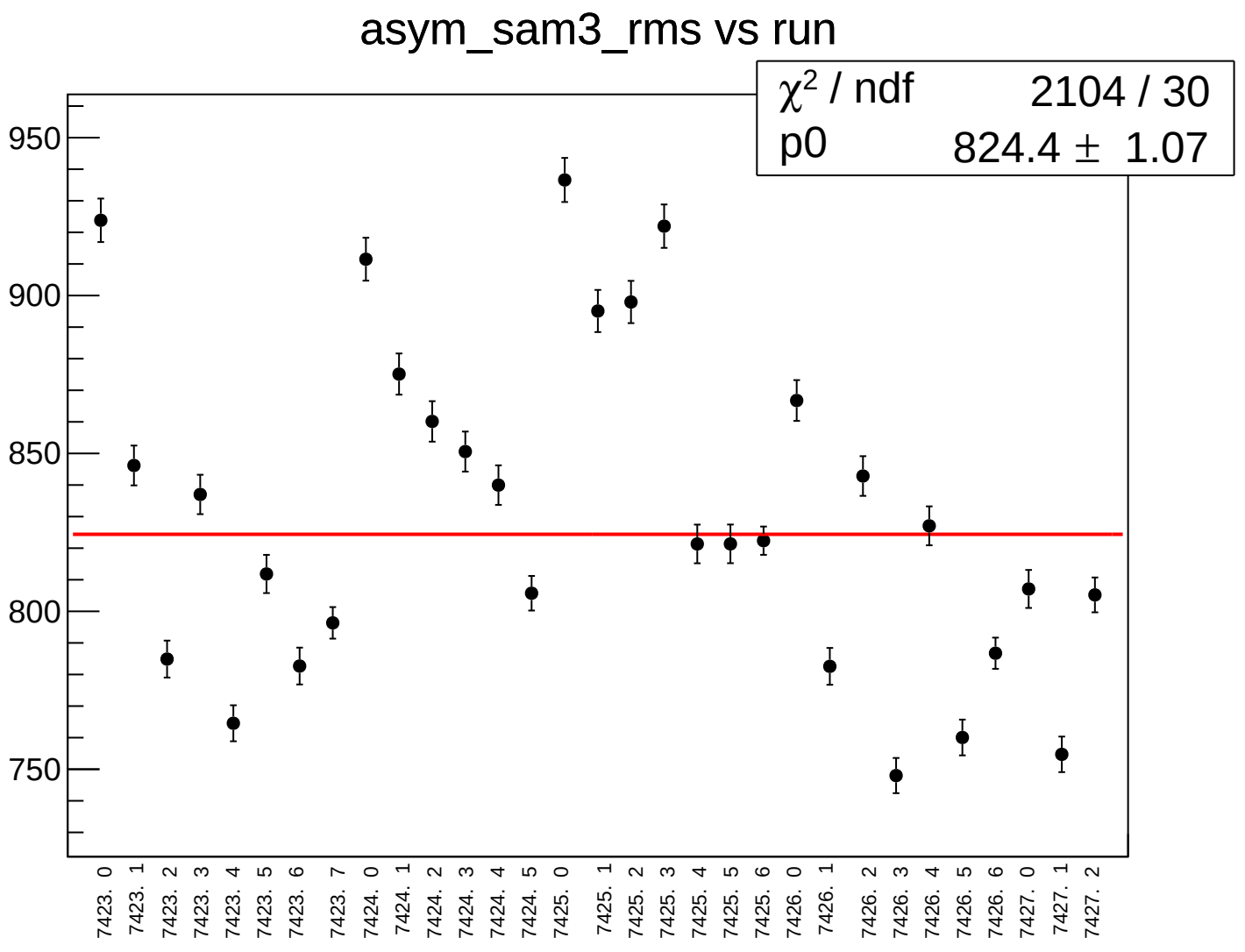

eigen_dit_asym_sam3_rms vs run
χ² / ndf 5728 / 30
p0 151.1 ± 0.1967
240
220
200
180
160
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

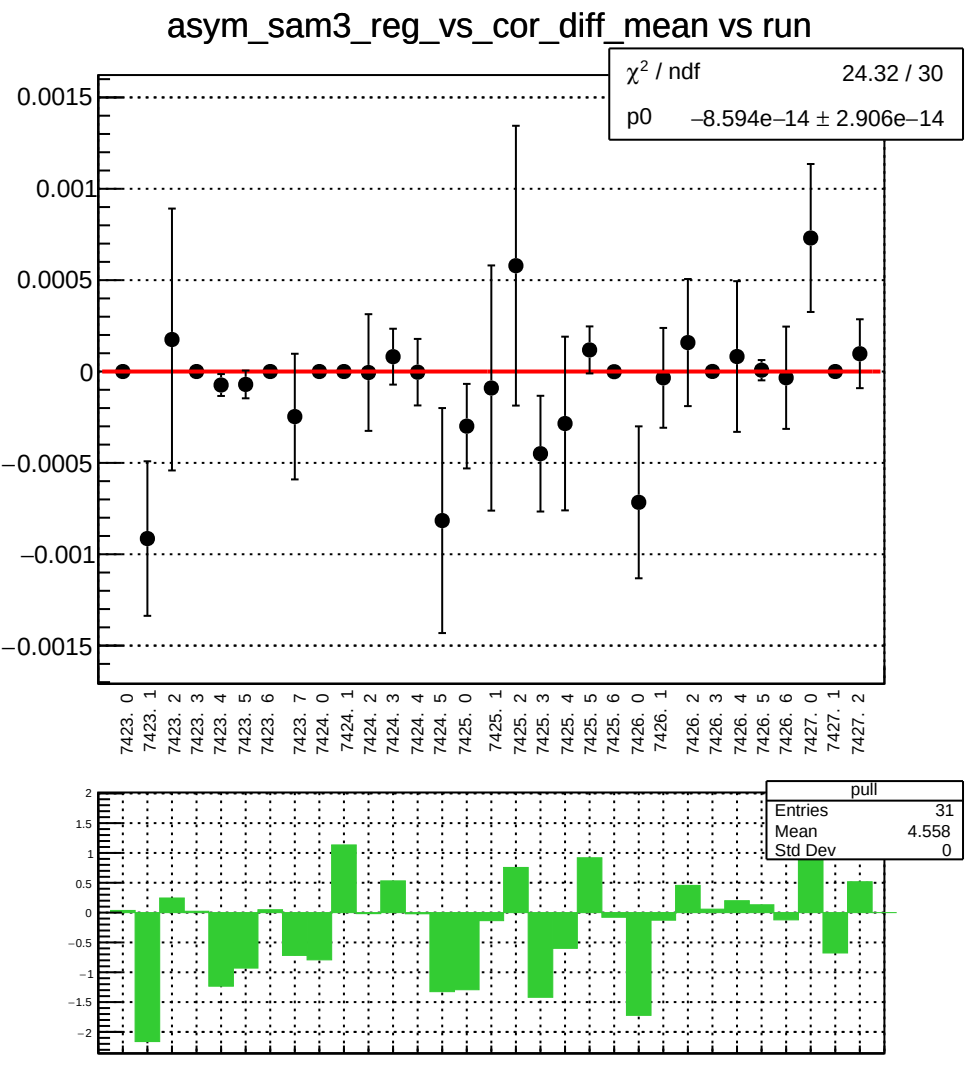

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 44.94 / 30
p0 2219 ± 1342
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 147.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01753
Std Dev 1.204
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

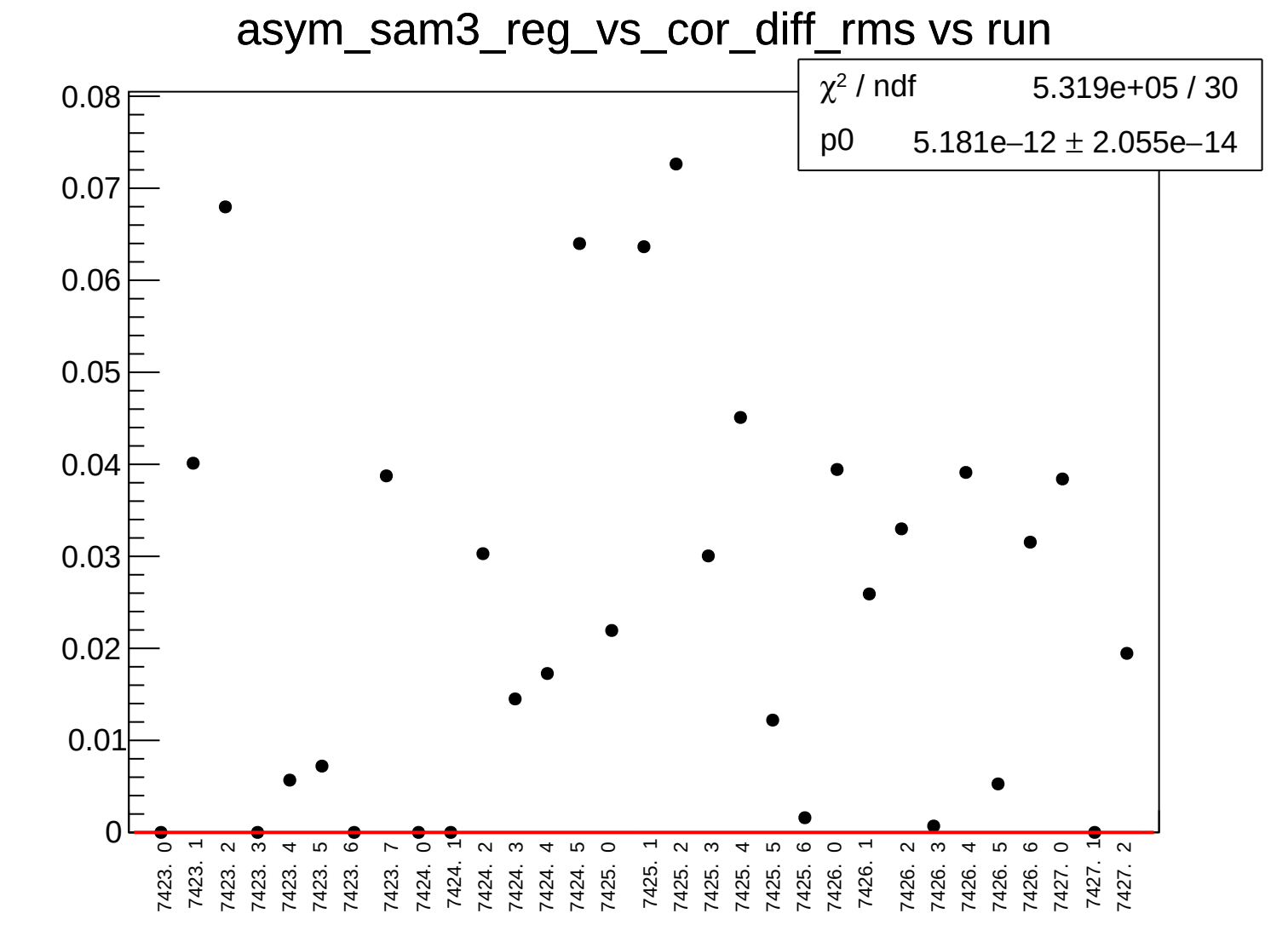

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1161 / 30
p0 731.5 ± 0.9488
820
800
780
760
740
720
700
680
660
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

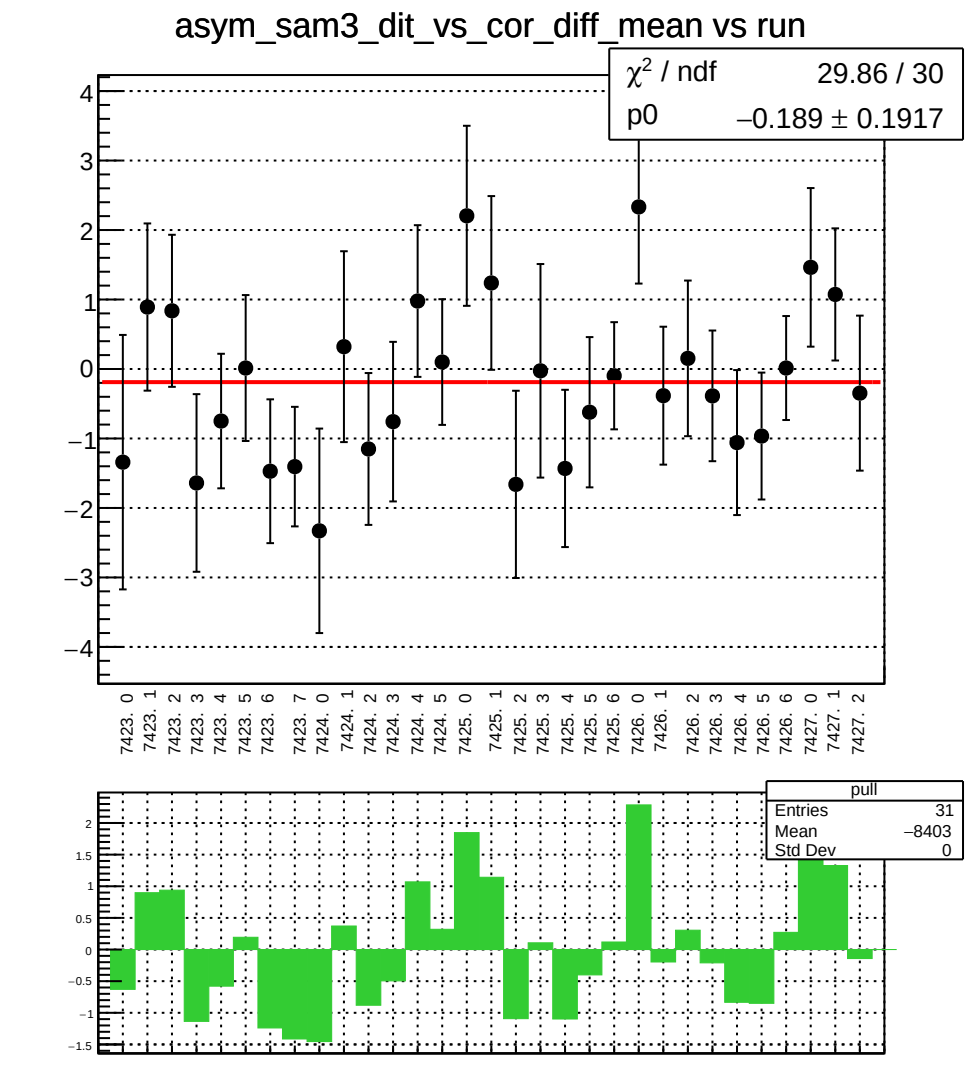

asym_sam3_mean vs run
χ² / ndf 45.05 / 30
p0 −2948 ± 1514
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 150.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

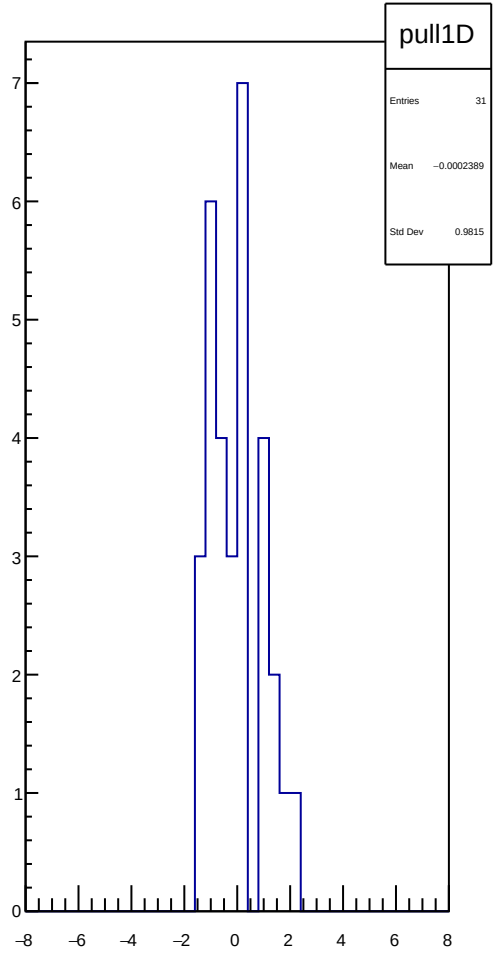

pull1D
Entries 31
Mean 0.015
Std Dev 1.205
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

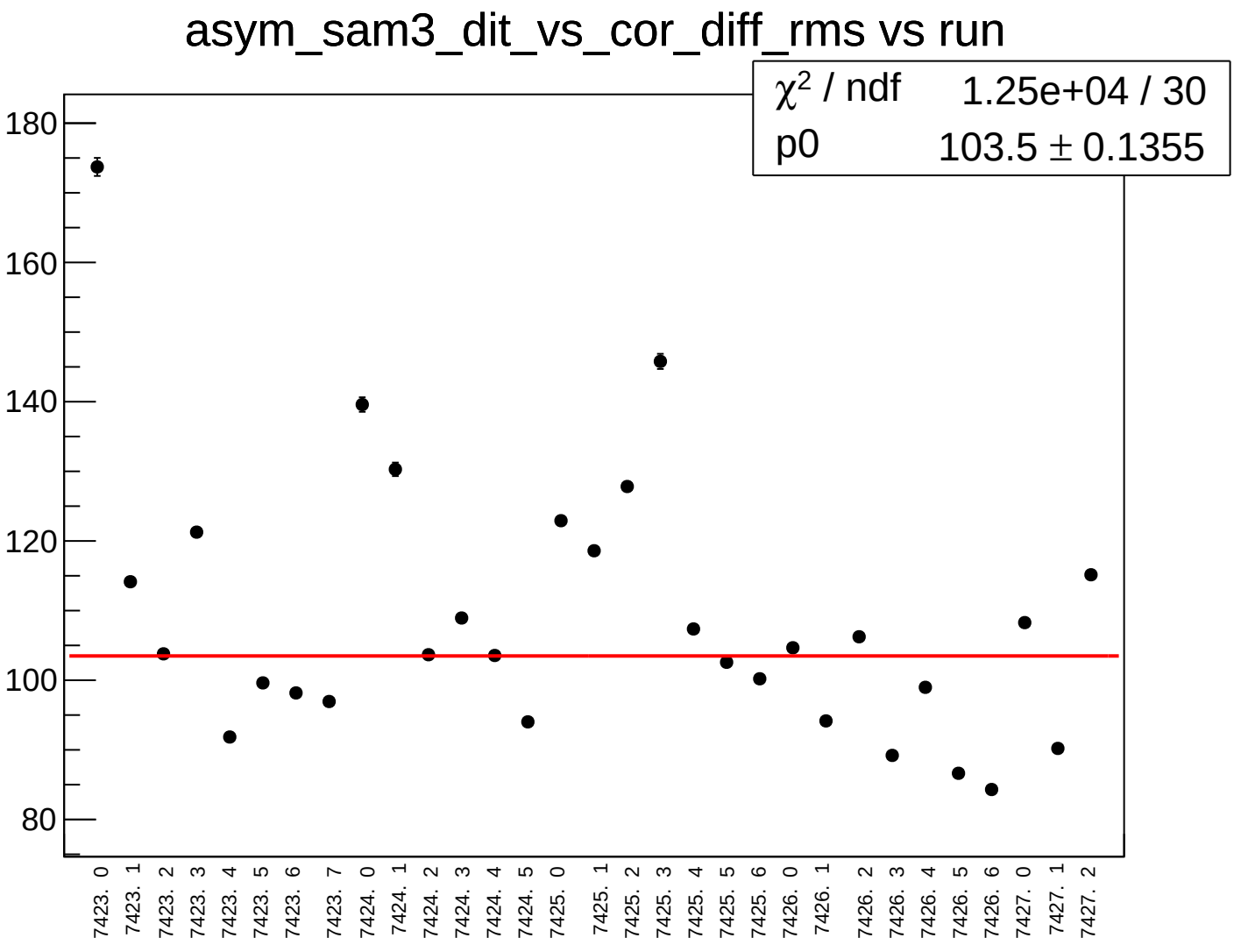

asym_sam3_rms vs run
χ² / ndf 2104 / 30
p0 824.4 ± 1.07
950
900
850
800
750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 24.32 / 30
p0 −8.594e−14 ± 2.906e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 4.558
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.21
Std Dev 0.8604
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

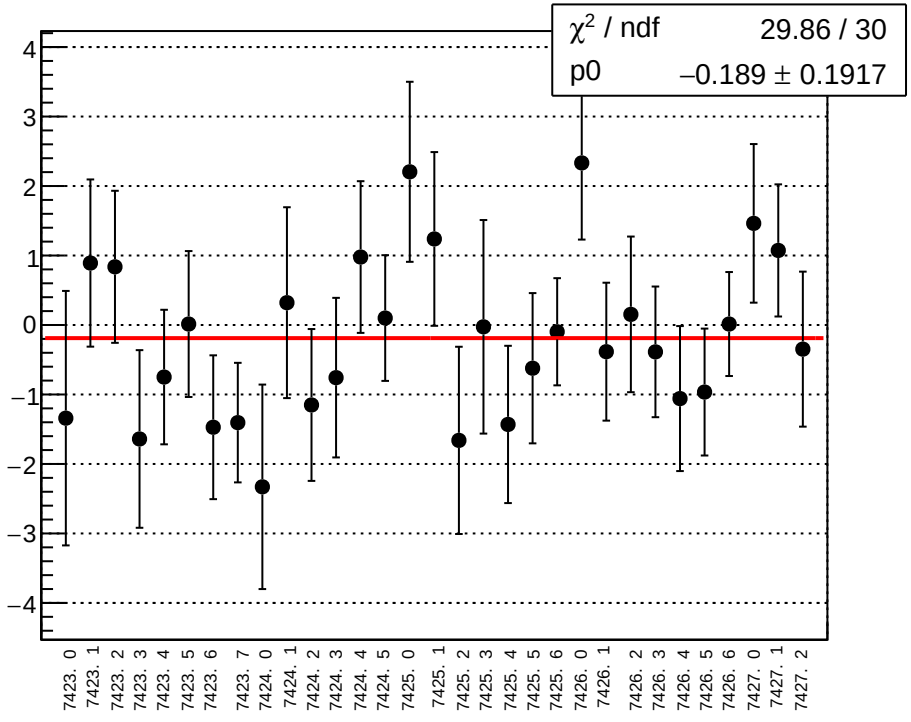

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 5.319e+05 / 30
p0 5.181e−12 ± 2.055e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

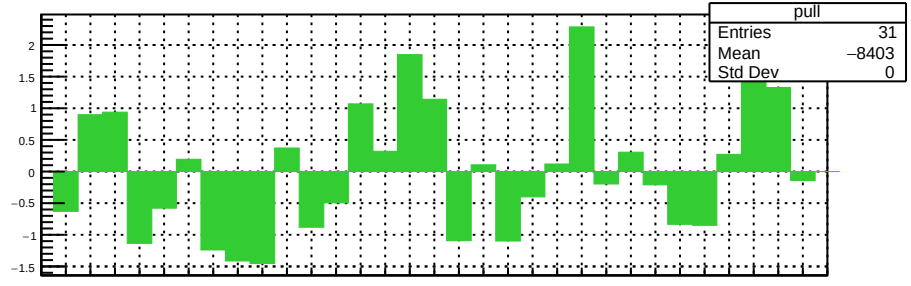

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 29.86 / 30
p0 −0.189 ± 0.1917
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −8403
Std Dev 0

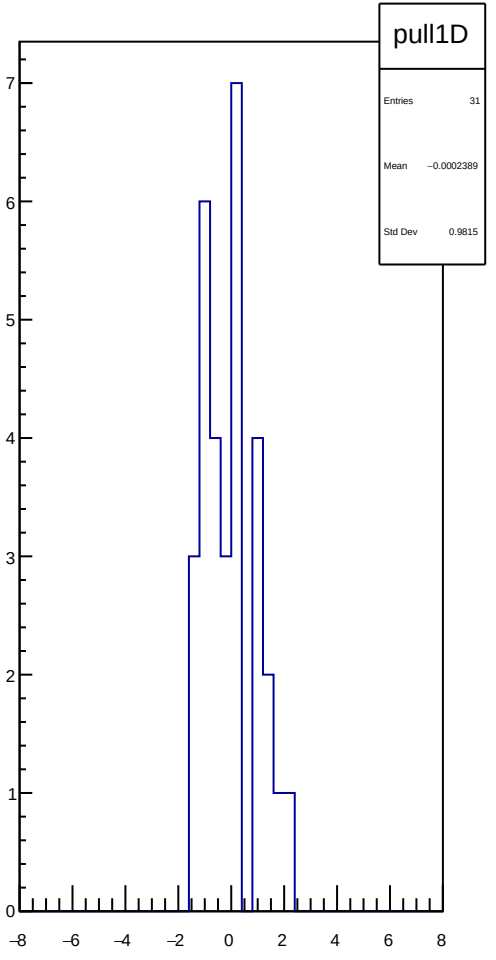

pull1D
Entries 31
Mean −0.0002389
Std Dev 0.9815

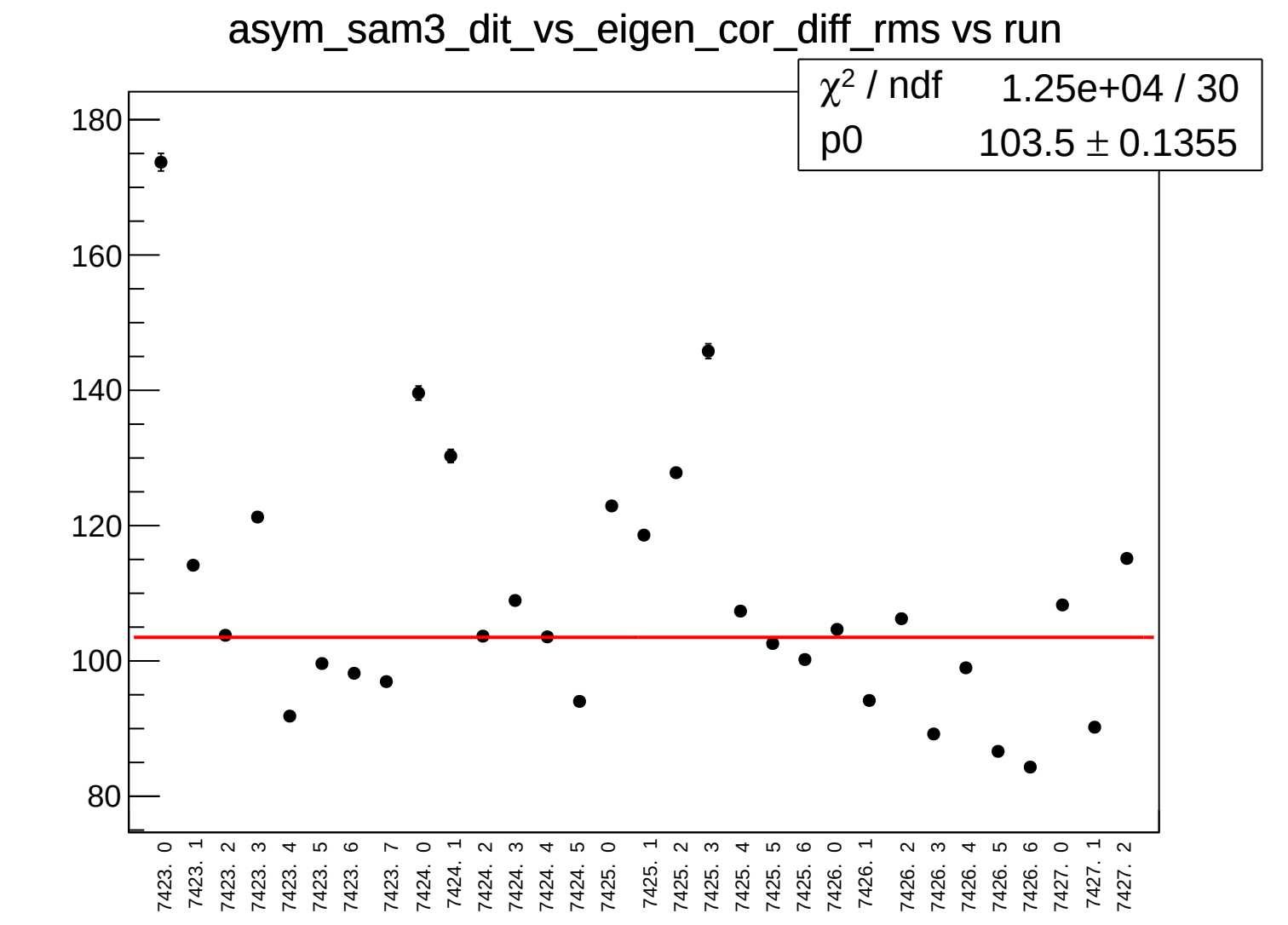

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.25e+04 / 30
p0 103.5 ± 0.1355
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

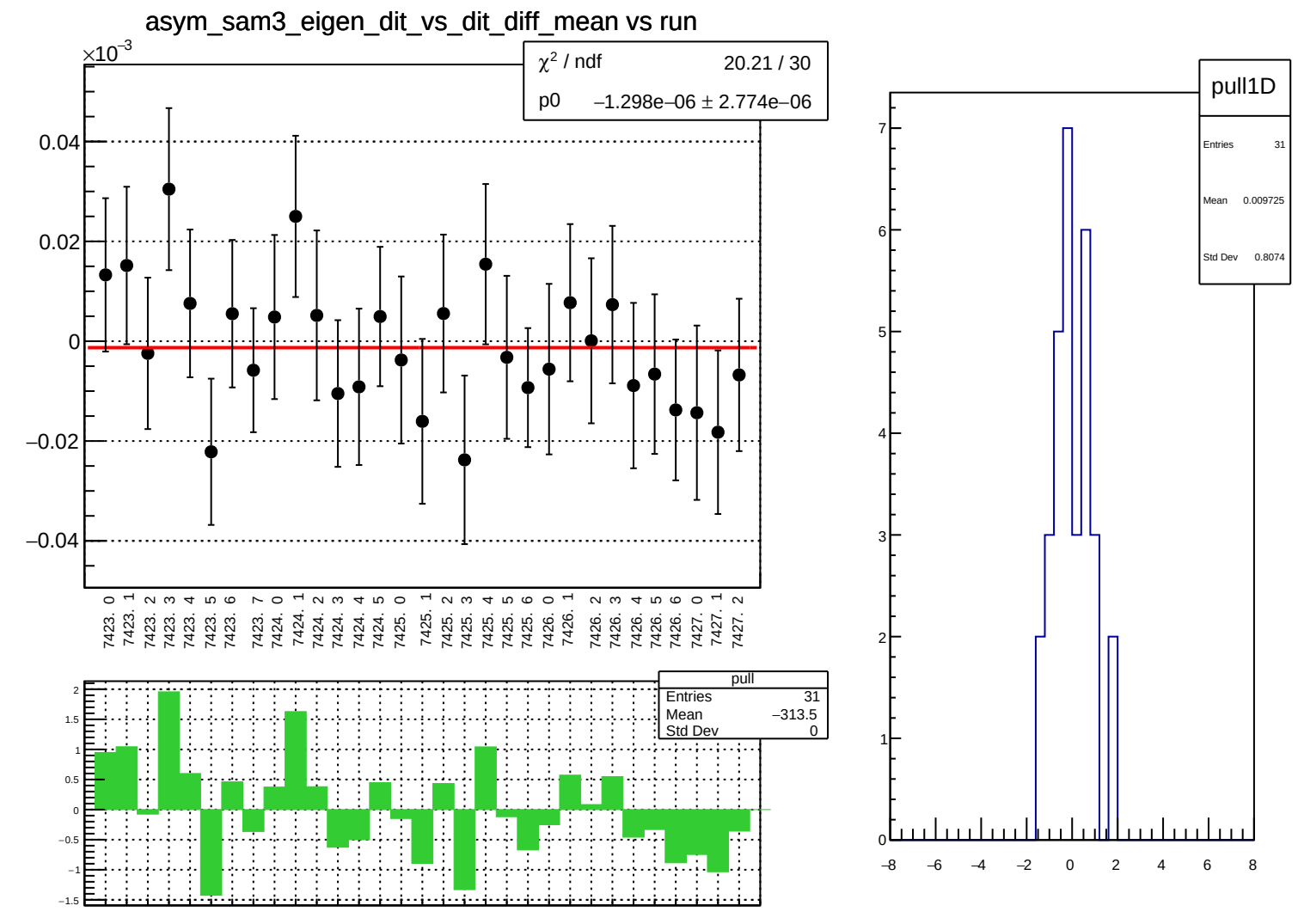
asym_sam3_dit_vs_eigen_cor_diff_mean vs run

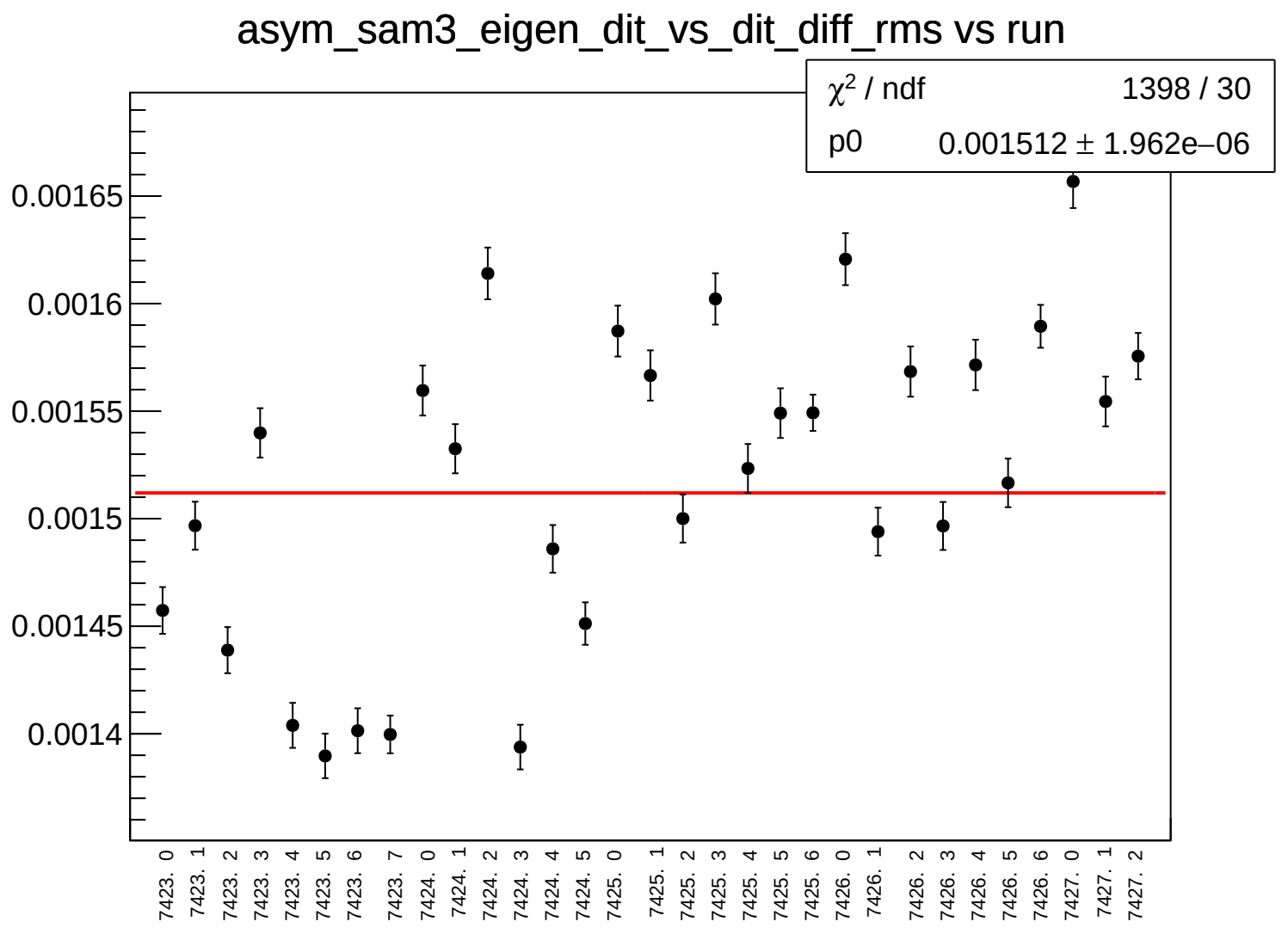


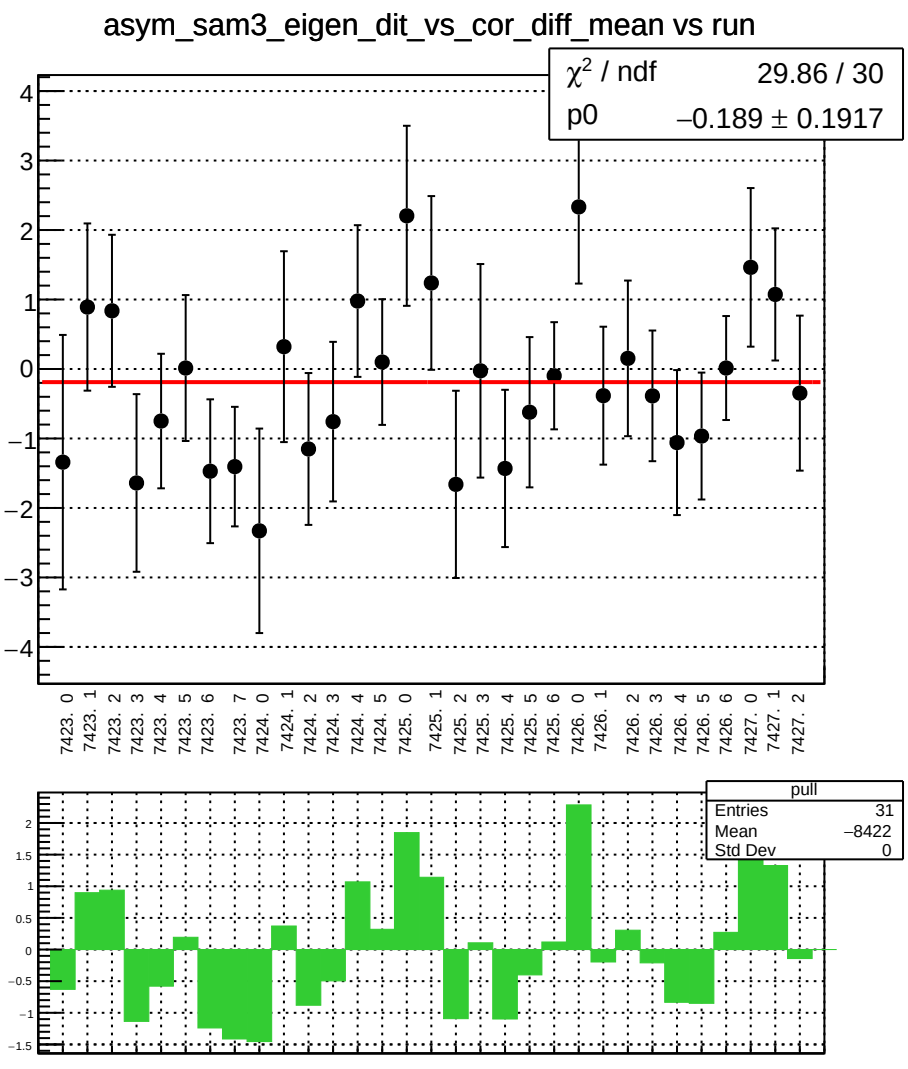


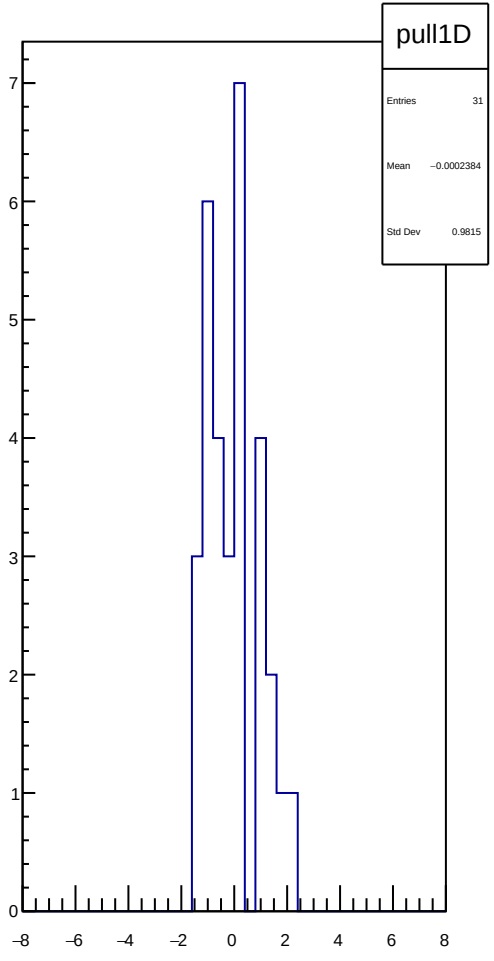


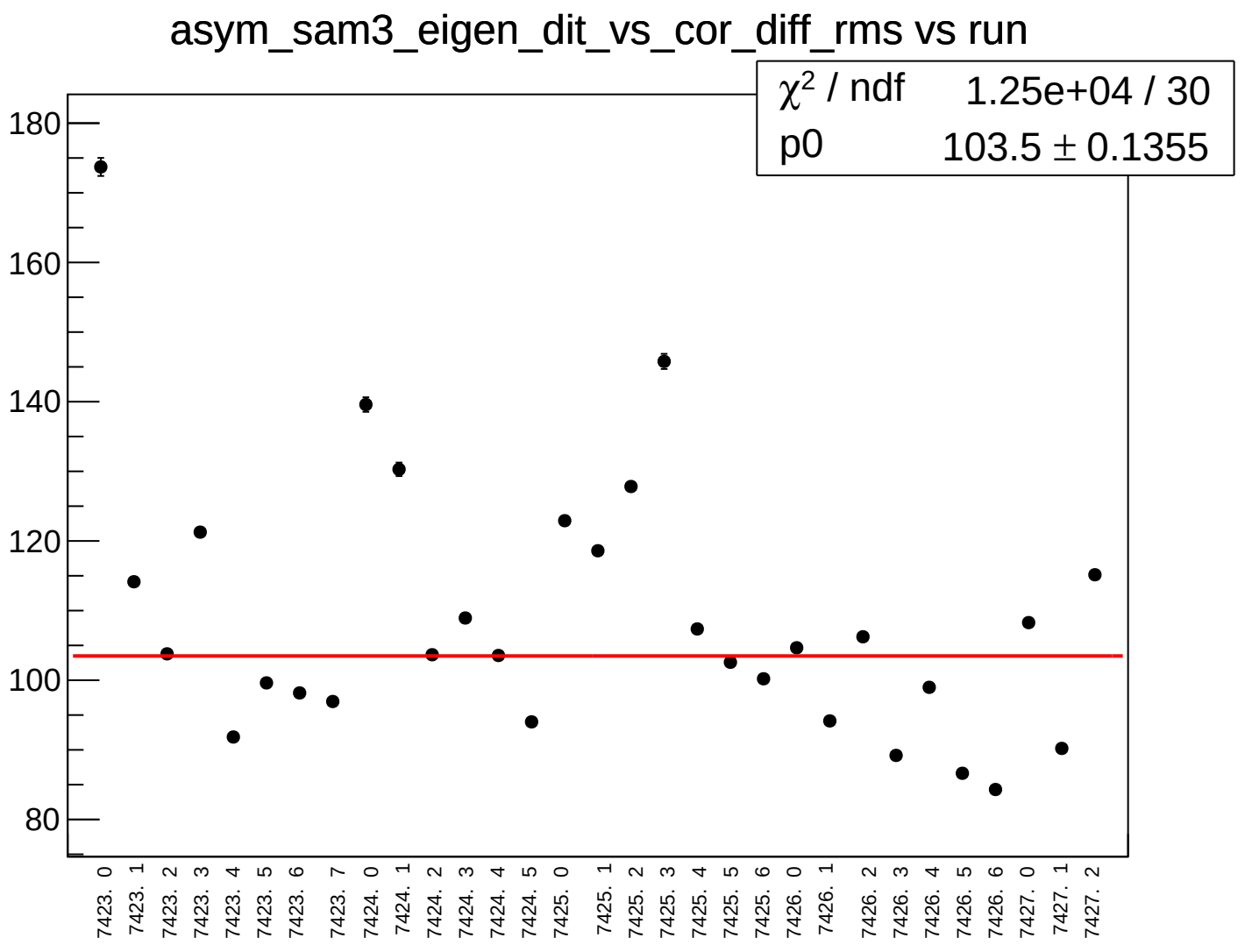

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.25e+04 / 30
p0 103.5 ± 0.1355
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

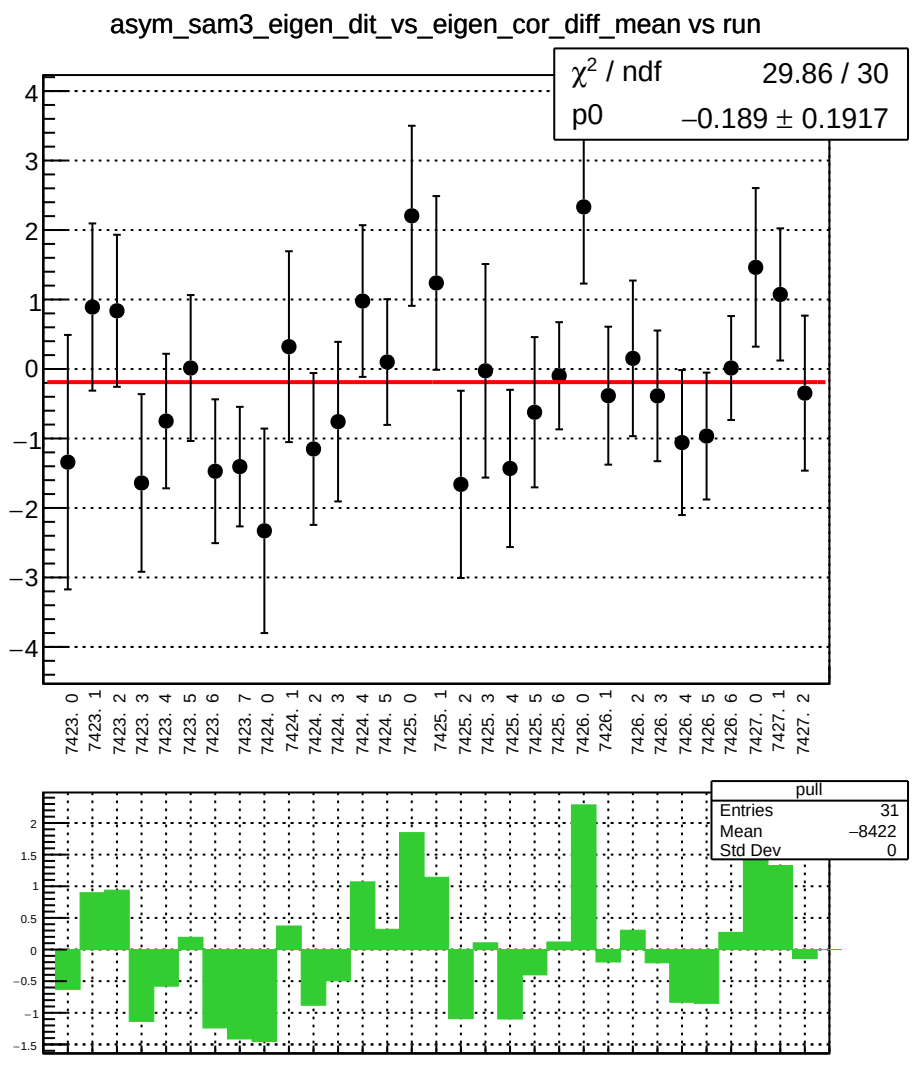

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 20.21 / 30
p0 −1.298e−06 ± 2.774e−06
0.04
0.02
0
−0.02
−0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −313.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.009725
Std Dev 0.8074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

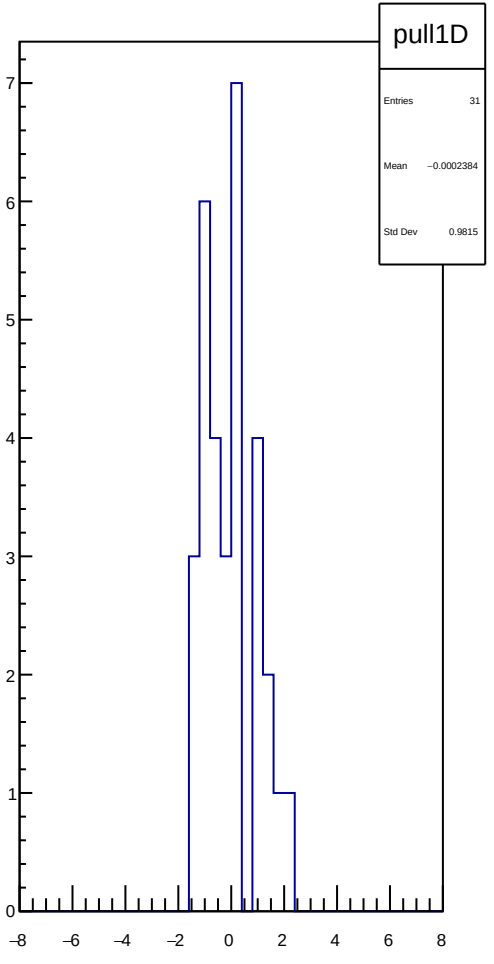

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1398 / 30
p0 0.001512 ± 1.962e−06
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

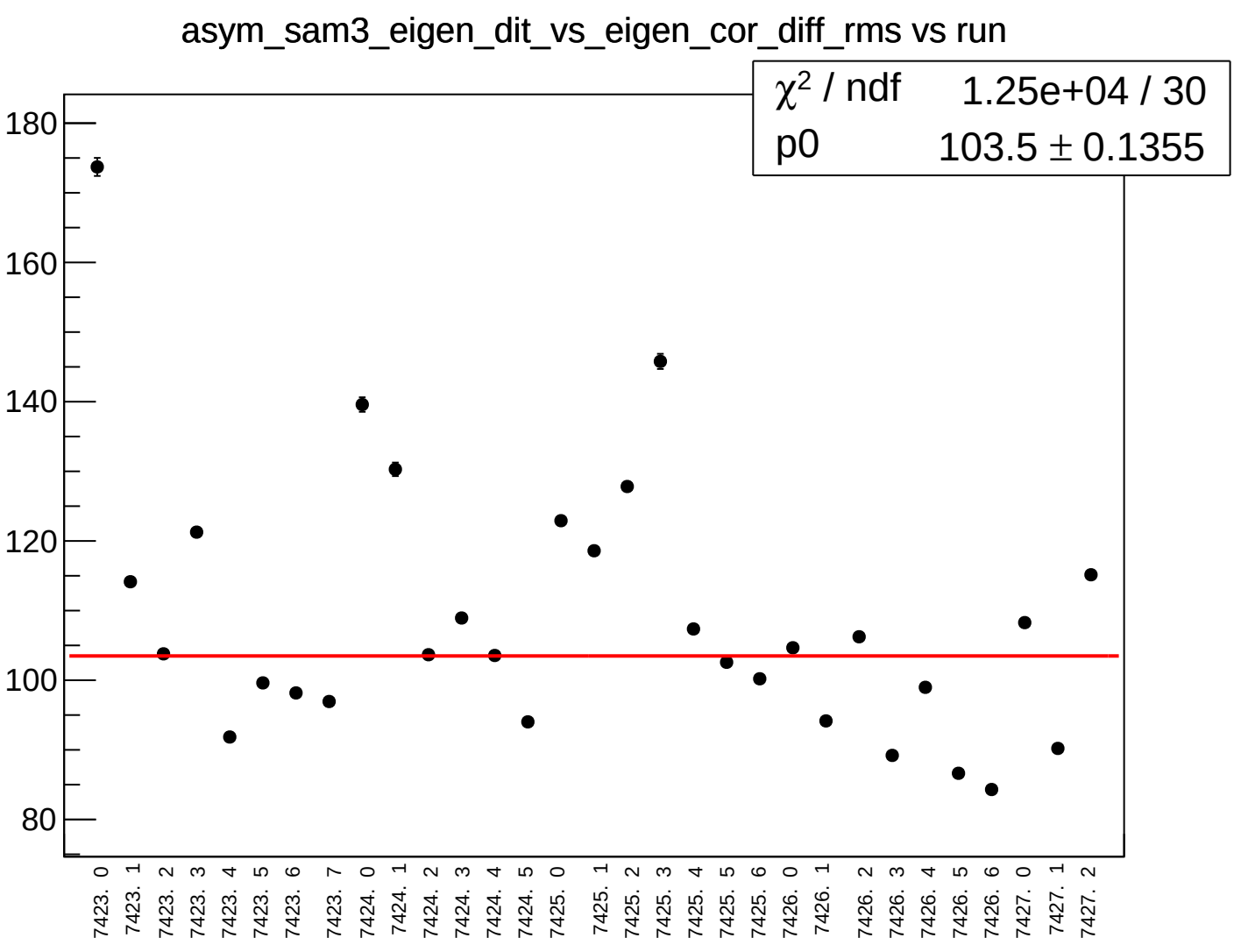

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.86 / 30
p0 −0.189 ± 0.1917
pull
Entries 31
Mean −8422
Std Dev 0

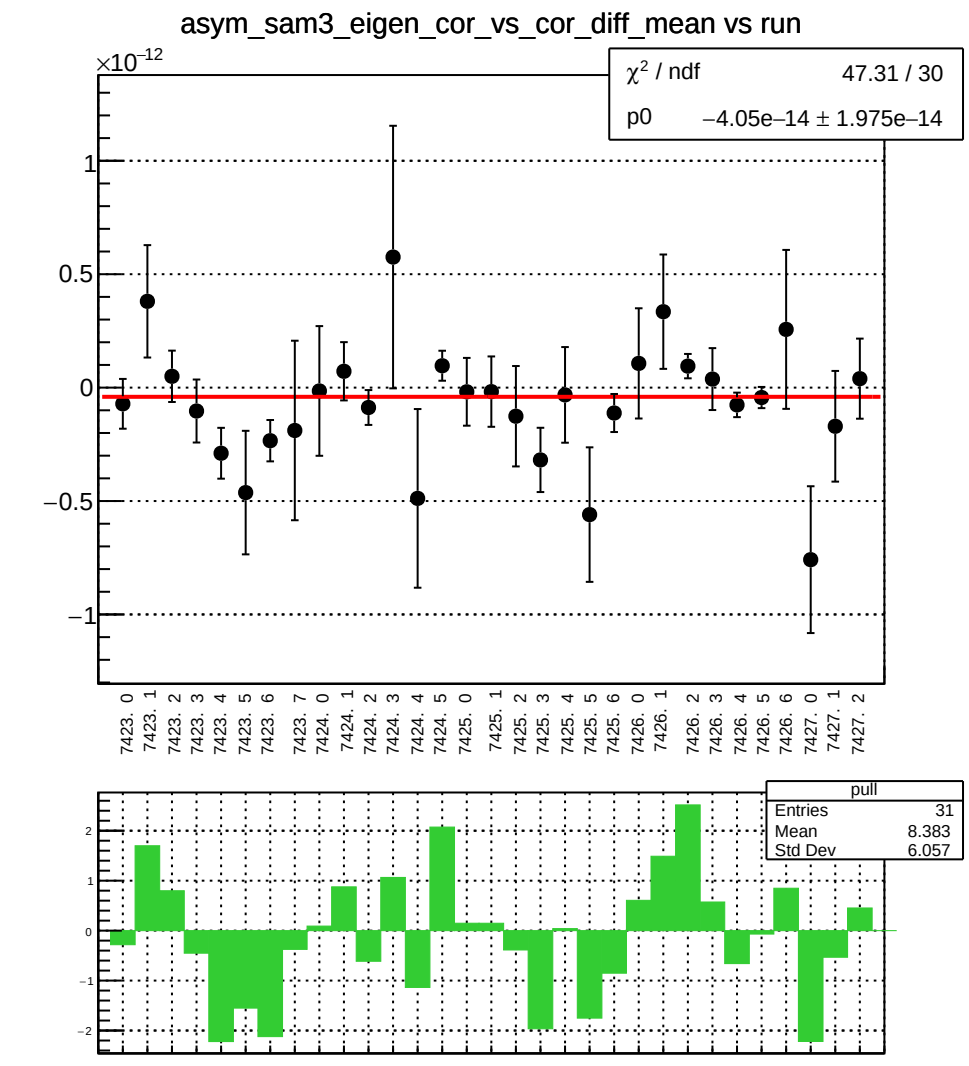

pull1D
Entries 31
Mean −0.0002384
Std Dev 0.9815

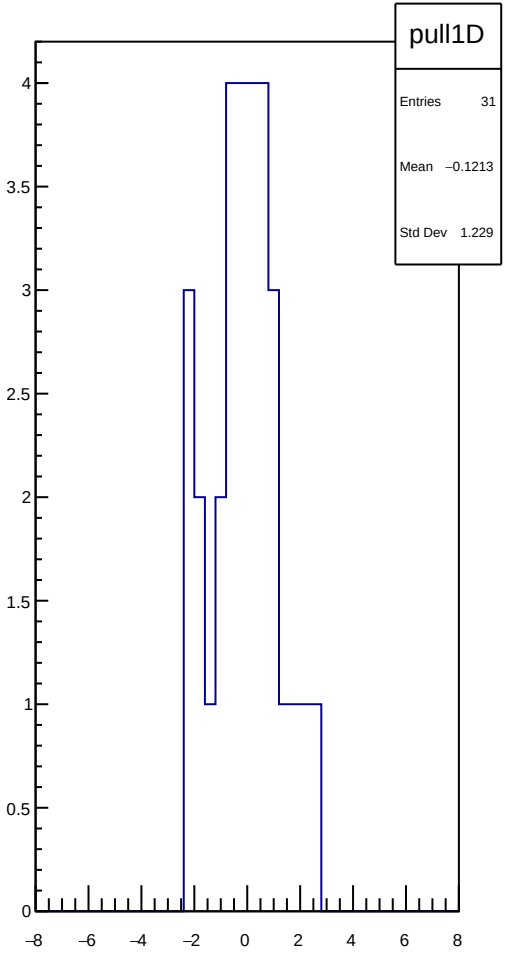

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.25e+04 / 30
p0 103.5 ± 0.1355
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

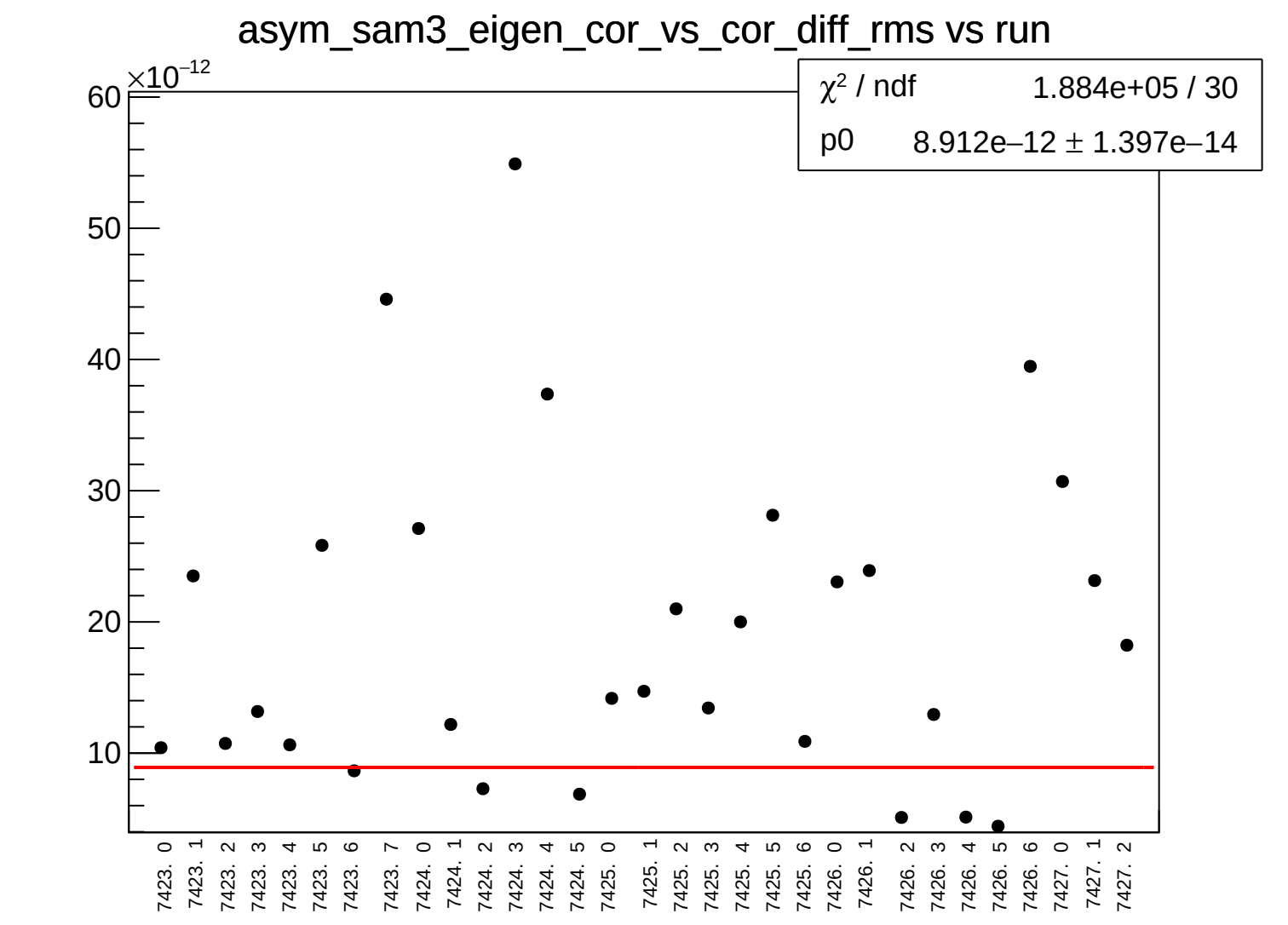

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.86 / 30
p0 −0.189 ± 0.1917
pull
Entries 31
Mean −8422
Std Dev 0

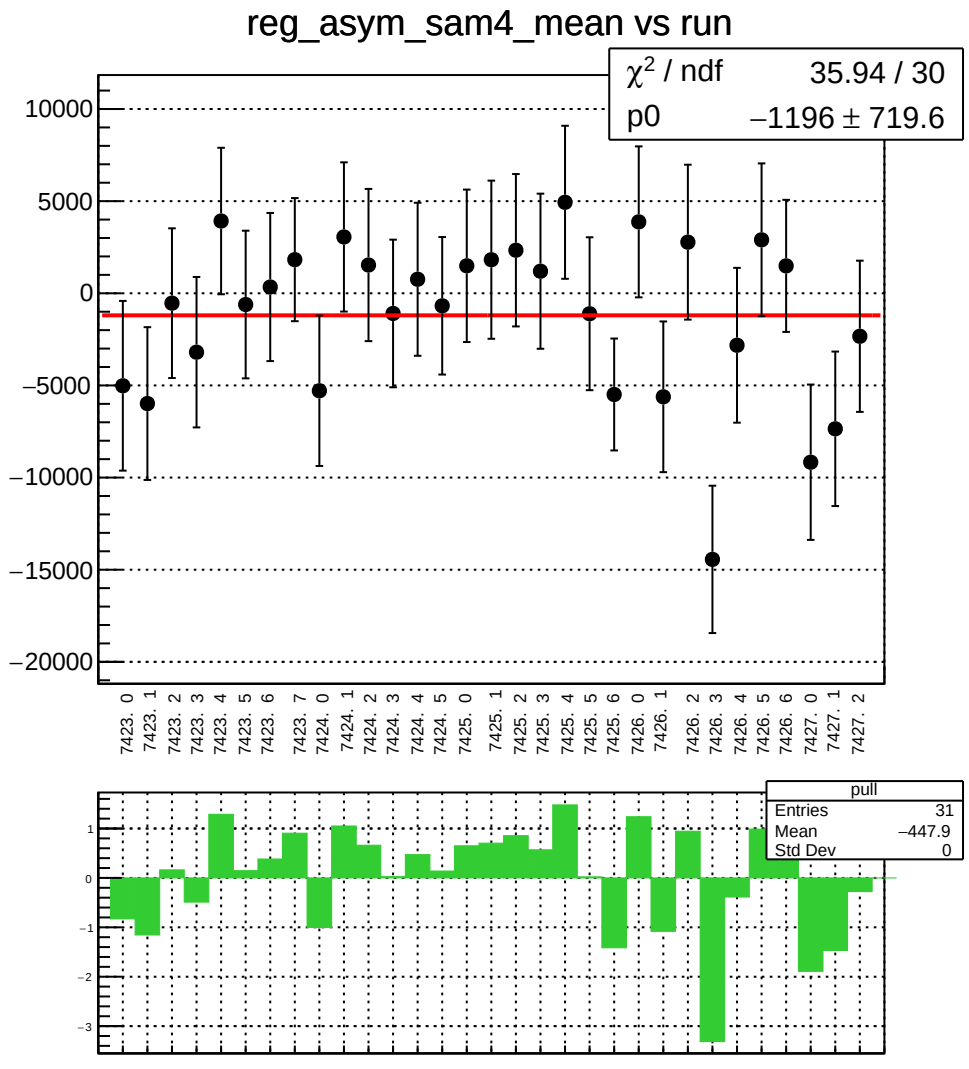

pull1D
Entries 31
Mean −0.0002384
Std Dev 0.9815

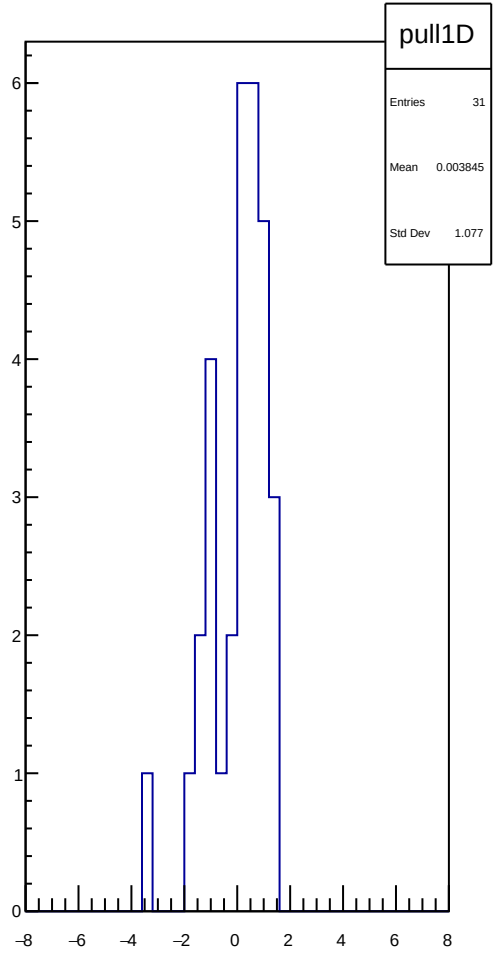

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.25e+04 / 30
p0 103.5 ± 0.1355
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

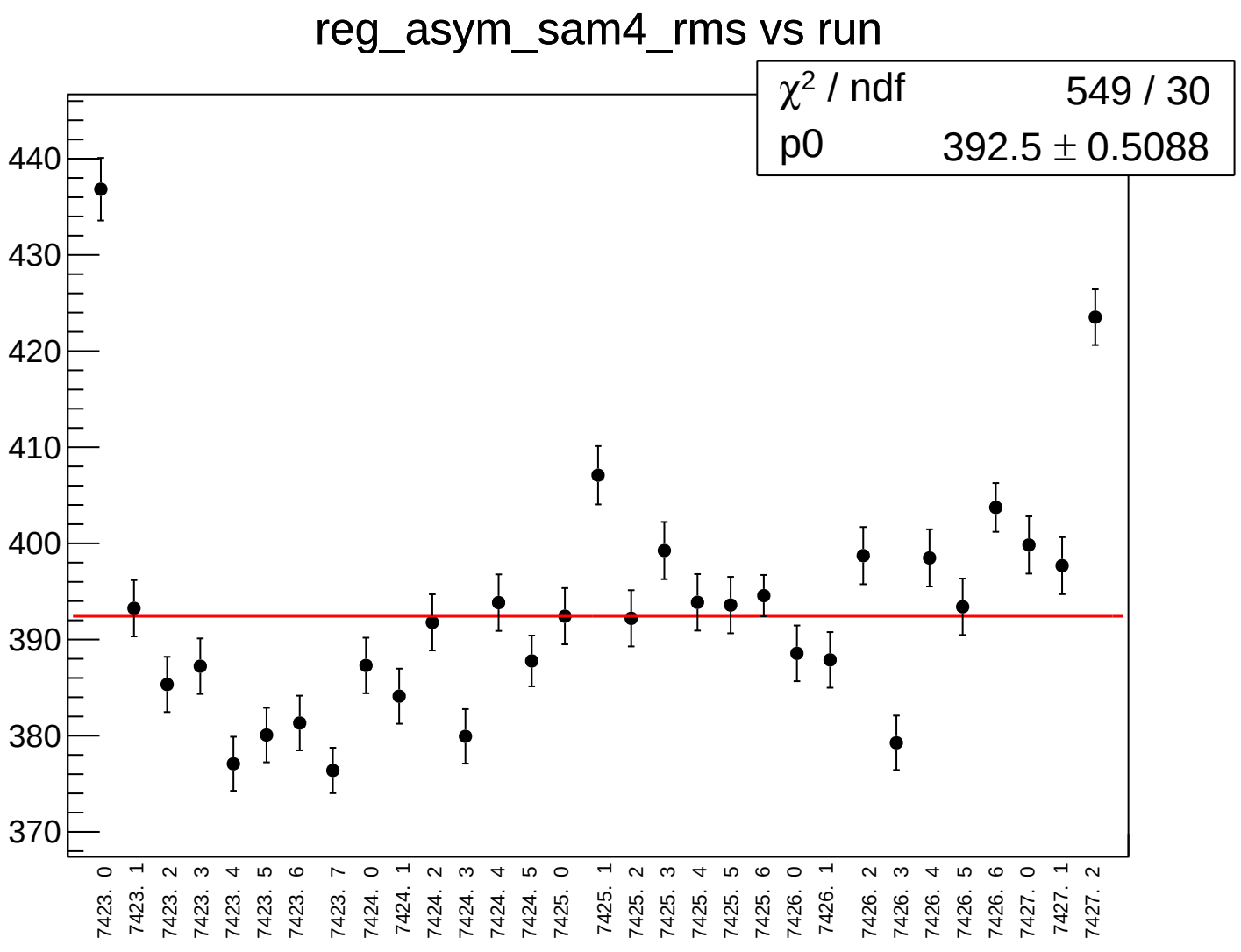

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.31 / 30
p0 −4.05e−14 ± 1.975e−14
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.383
Std Dev 6.057
2
1
0
−1
−2

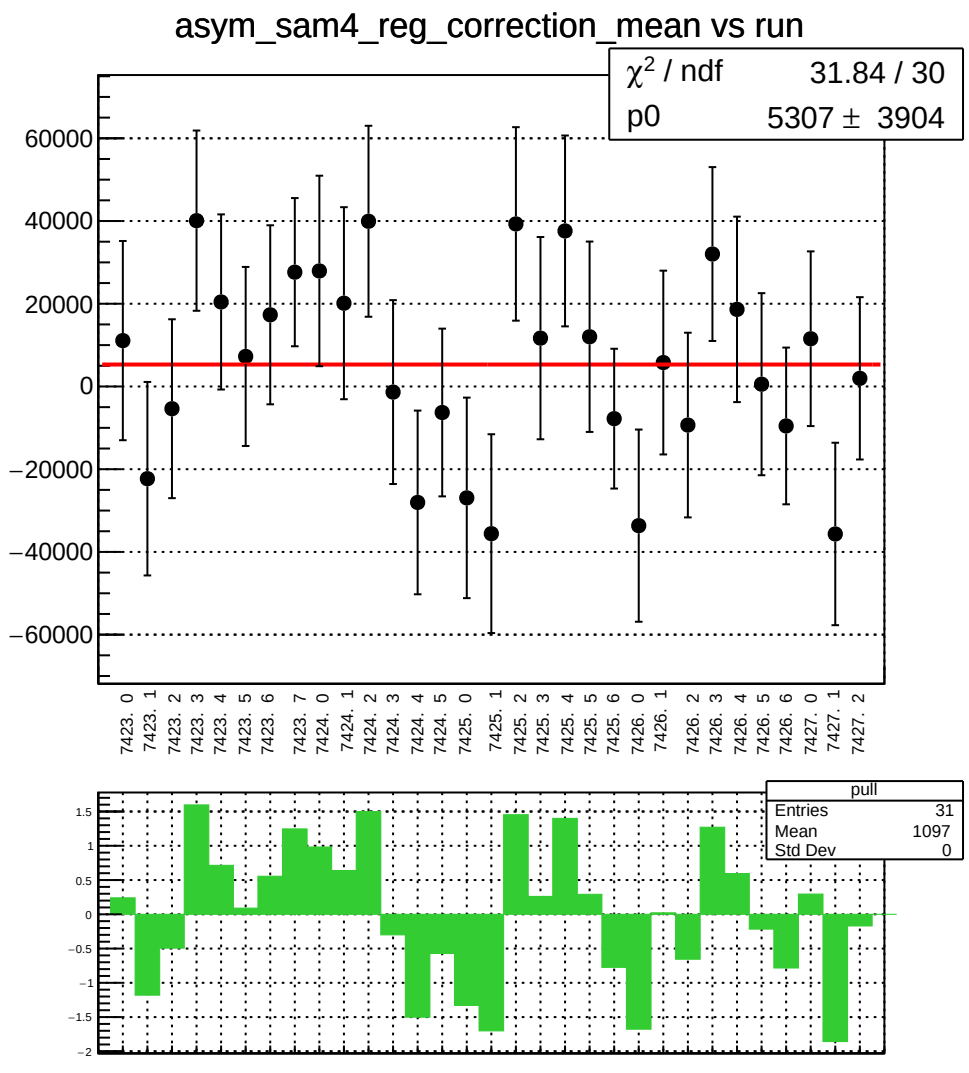

pull1D
Entries 31
Mean −0.1213
Std Dev 1.229
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

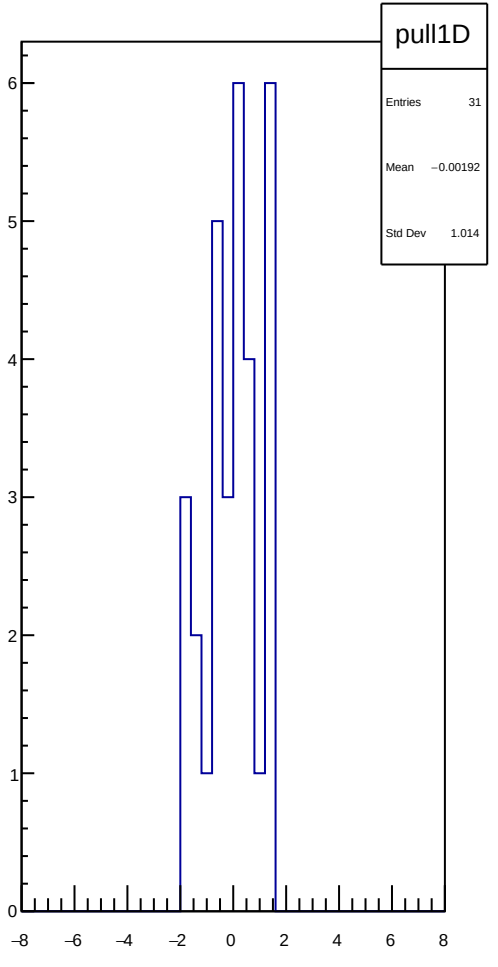

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10^−12
60
50
40
30
20
10
χ² / ndf 1.884e+05 / 30
p0 8.912e−12 ± 1.397e−14
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

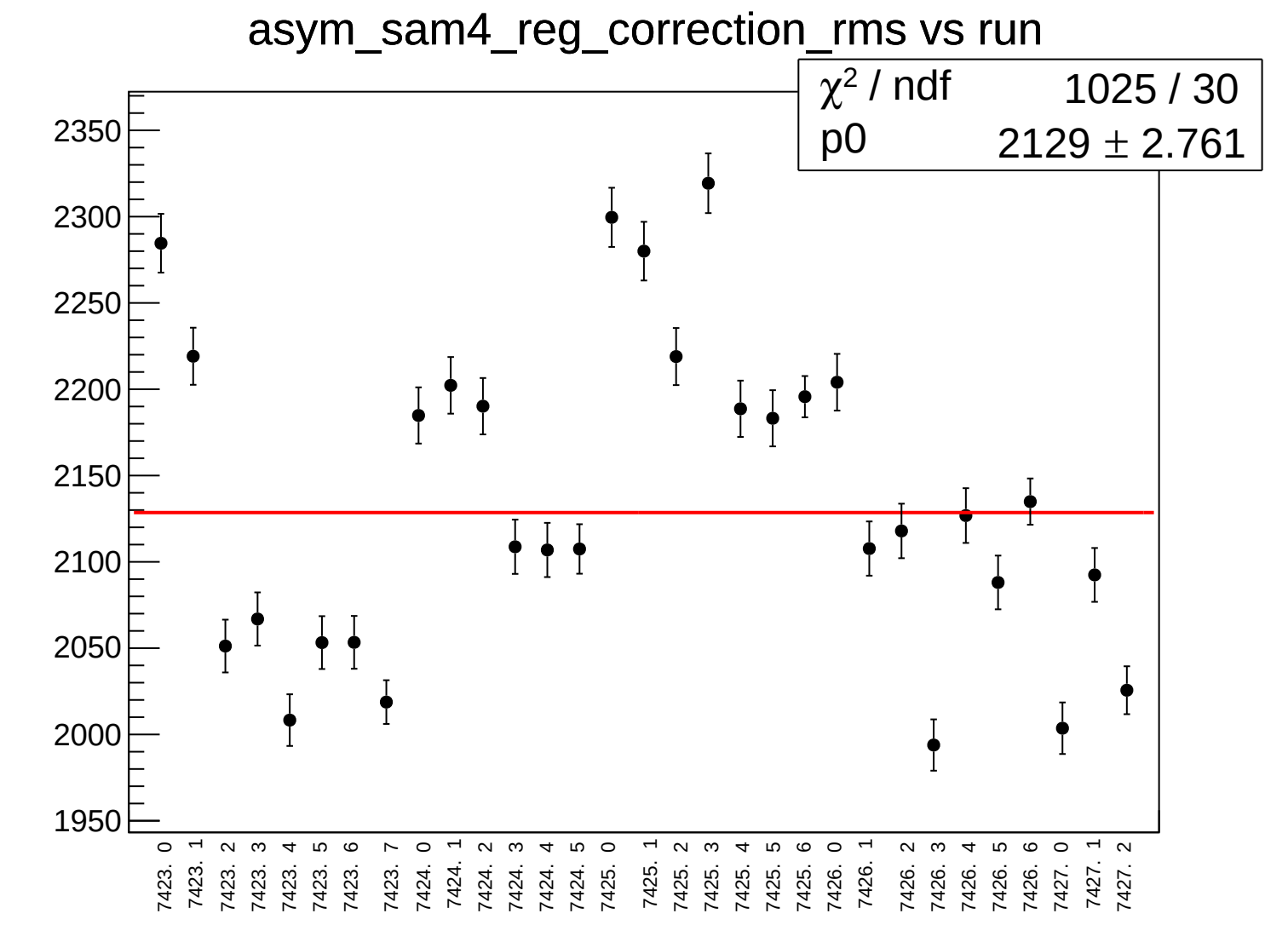

reg_asym_sam4_mean vs run
χ² / ndf 35.94 / 30
p0 −1196 ± 719.6
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −447.9
Std Dev 0
1
0
−1
−2
−3

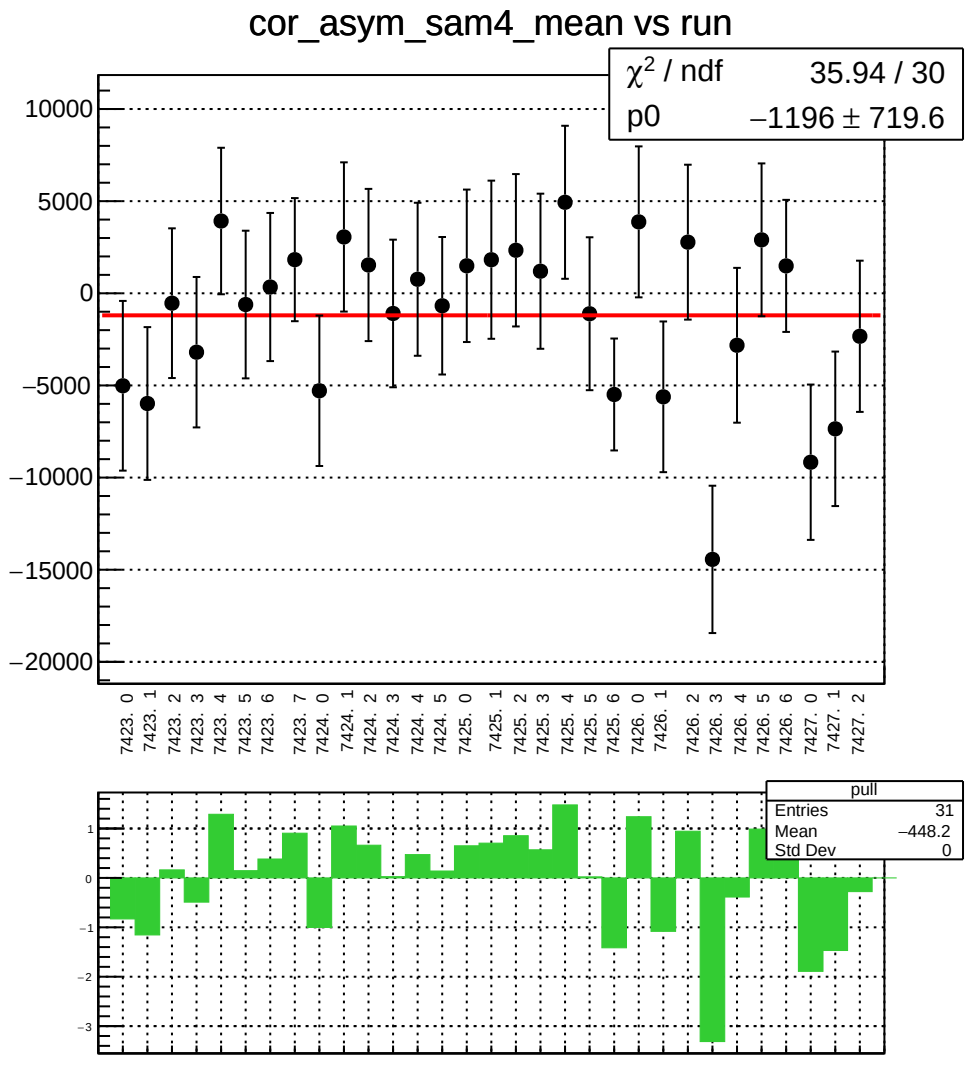

pull1D
Entries 31
Mean 0.003845
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

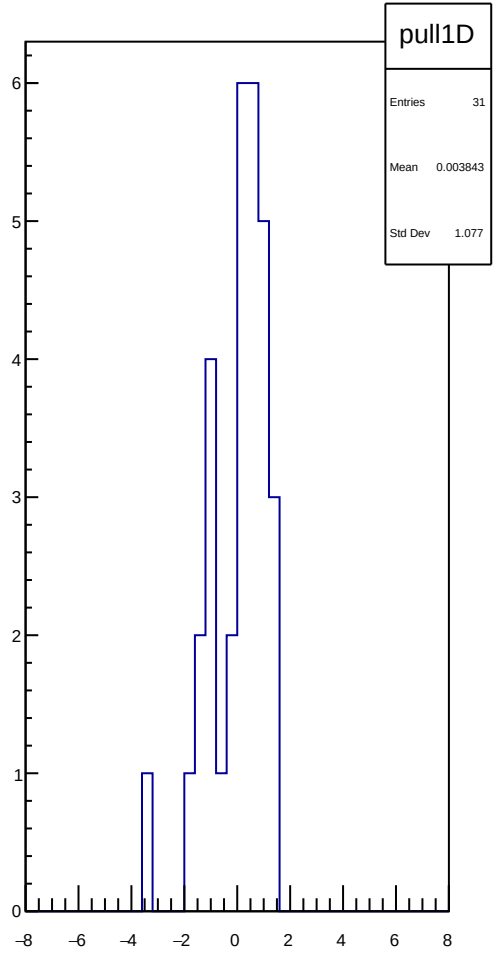

reg_asym_sam4_rms vs run
χ² / ndf 549 / 30
p0 392.5 ± 0.5088
440
430
420
410
400
390
380
370
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

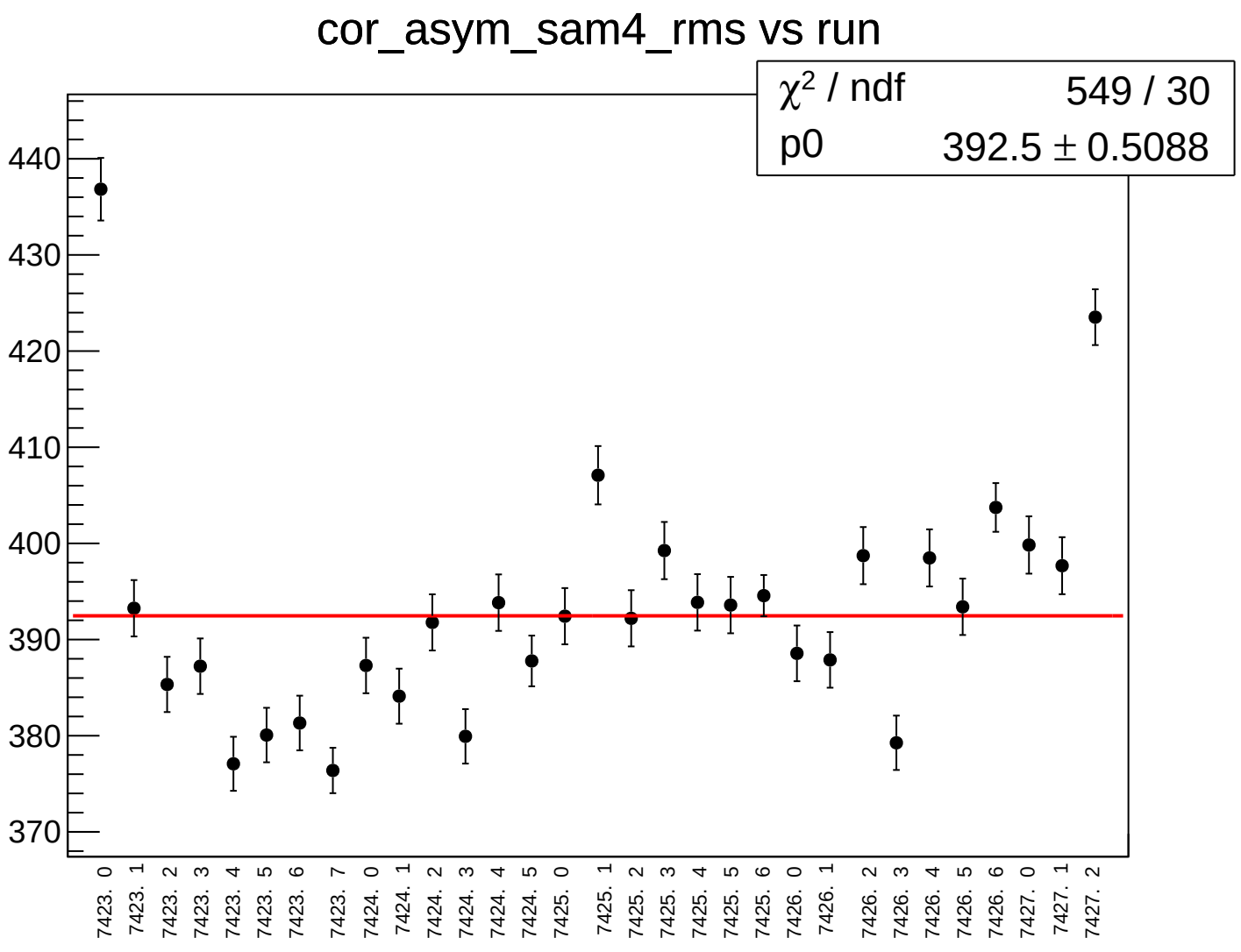

asym_sam4_reg_correction_mean vs run
χ² / ndf 31.84 / 30
p0 5307 ± 3904
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1097
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

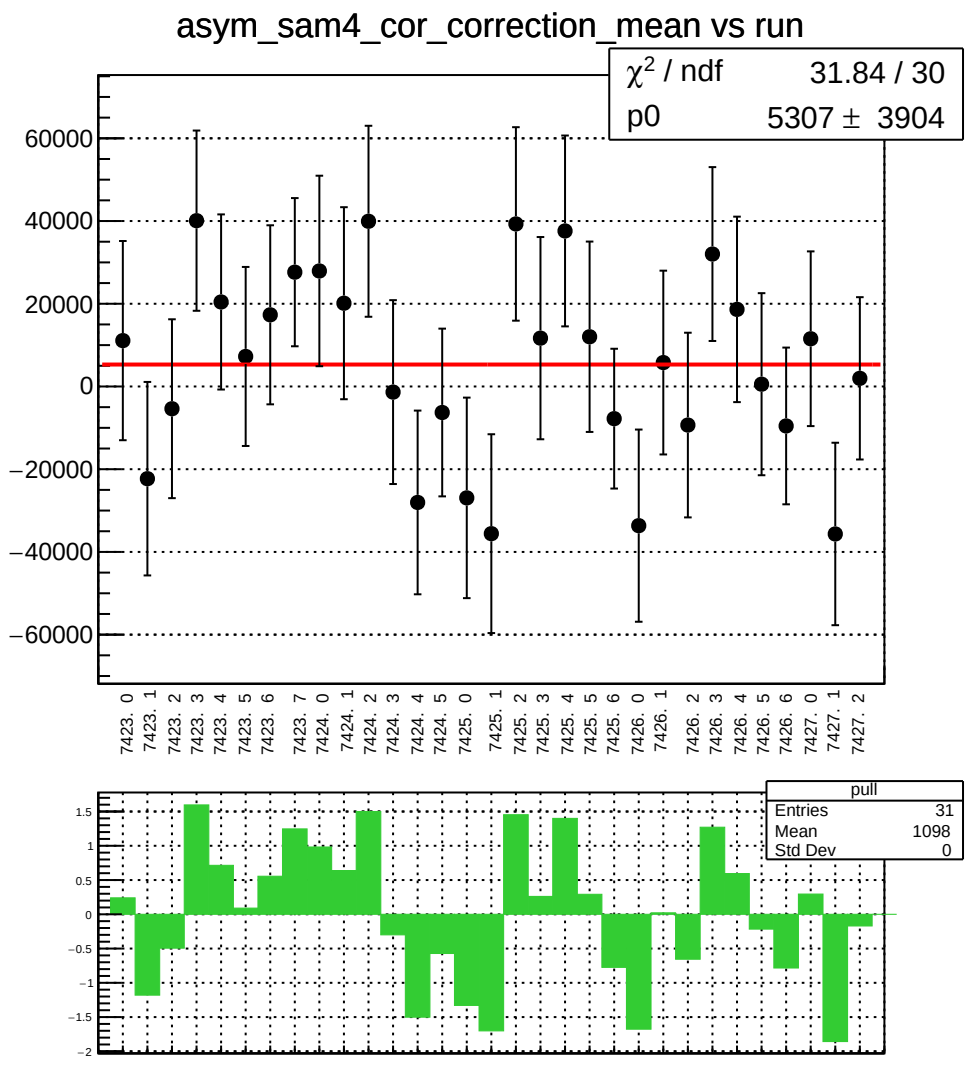

pull1D
Entries 31
Mean −0.00192
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

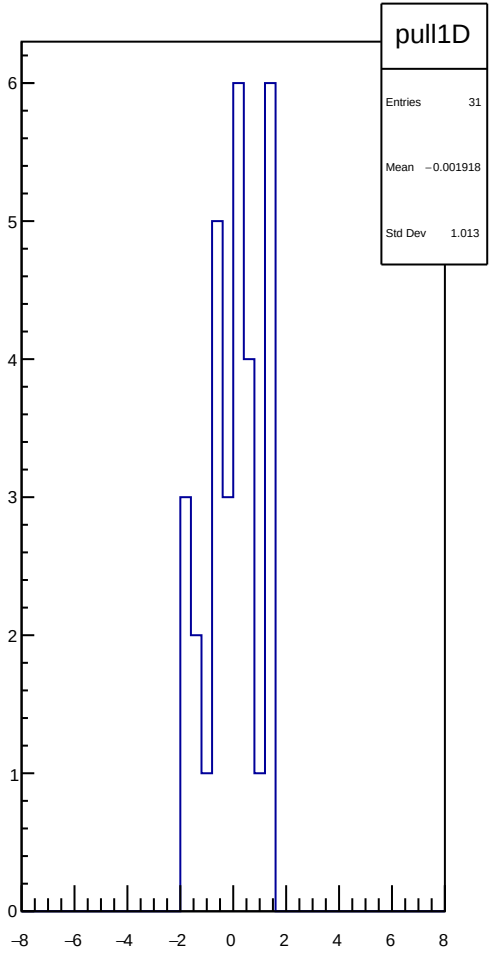

asym_sam4_reg_correction_rms vs run
χ² / ndf 1025 / 30
p0 2129 ± 2.761
2350
2300
2250
2200
2150
2100
2050
2000
1950
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

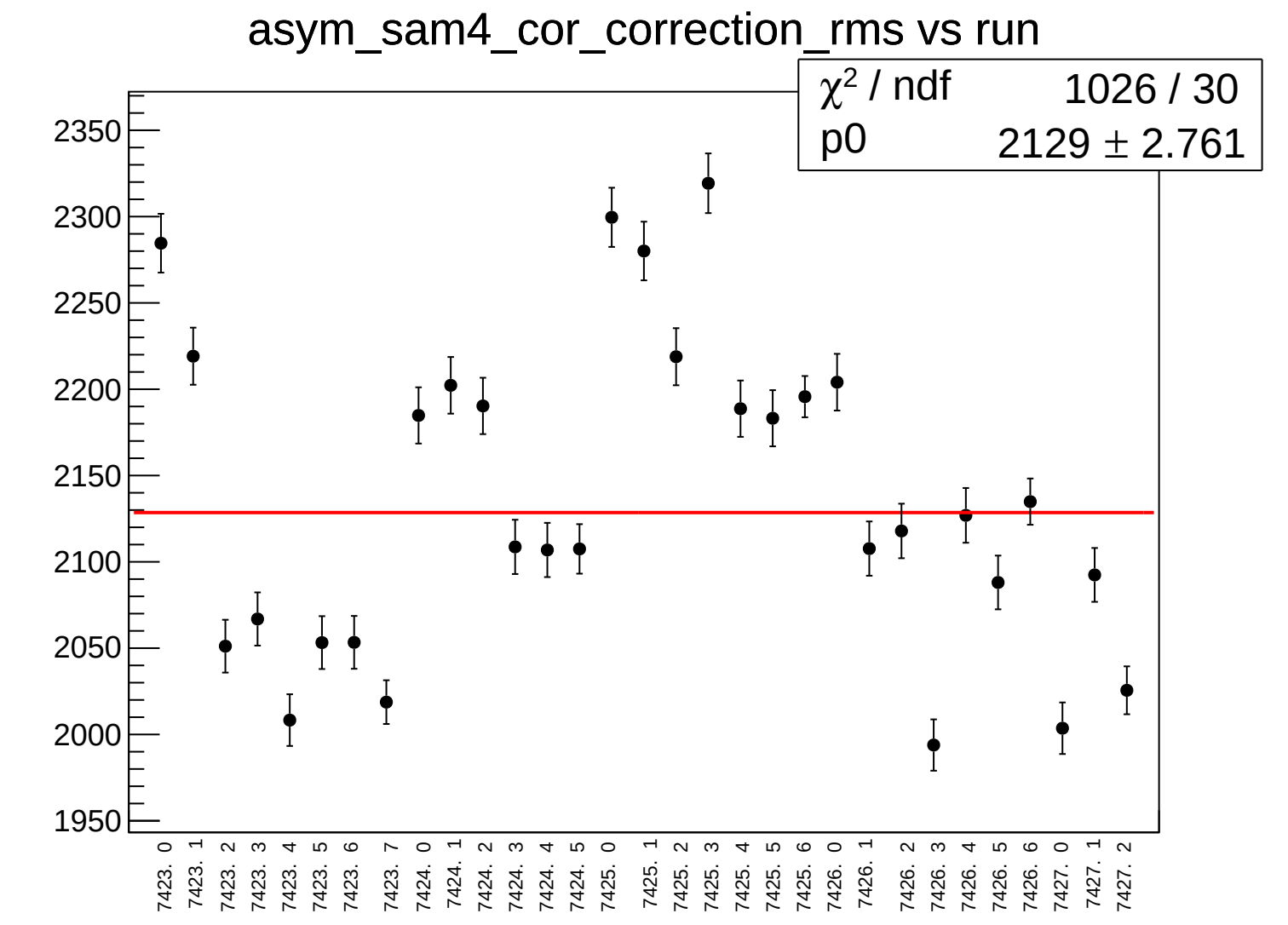

cor_asym_sam4_mean vs run
χ² / ndf 35.94 / 30
p0 −1196 ± 719.6
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −448.2
Std Dev 0
1
0
−1
−2
−3

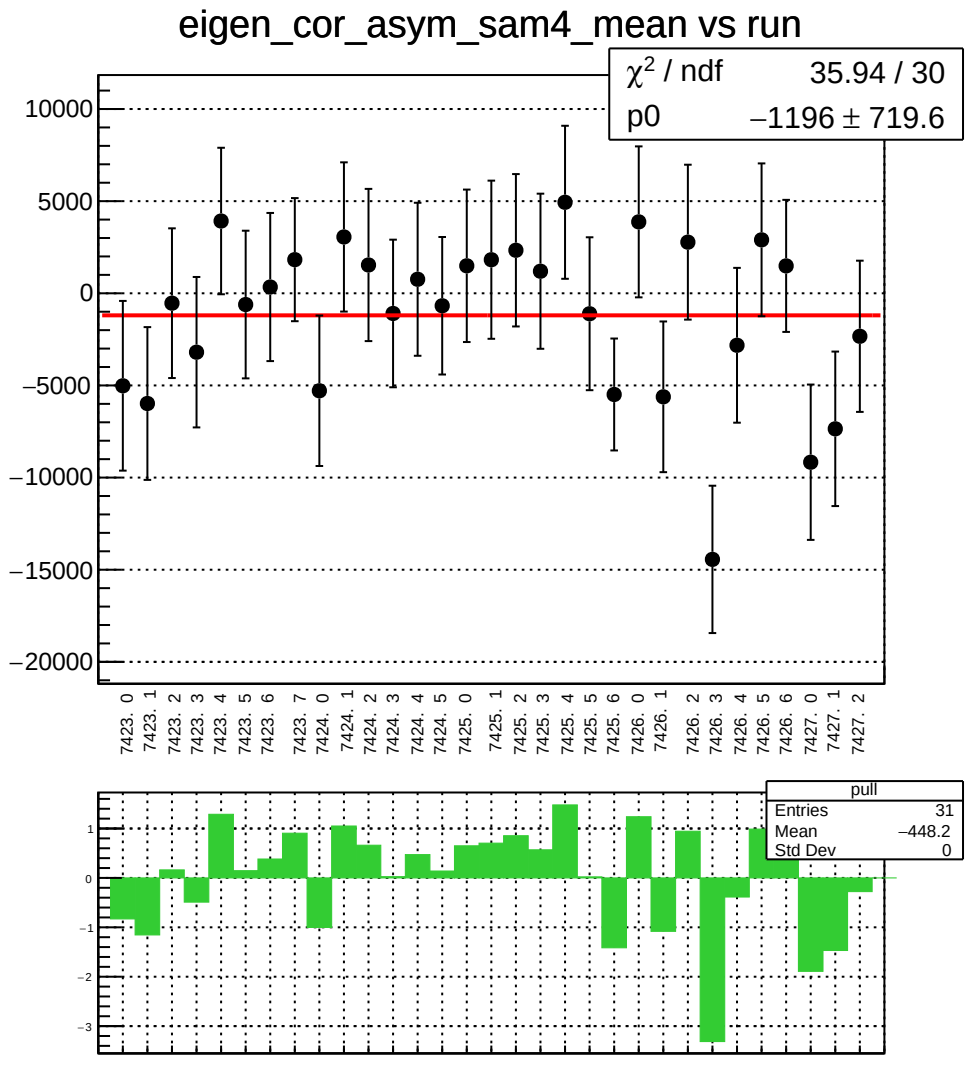

pull1D
Entries 31
Mean 0.003843
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

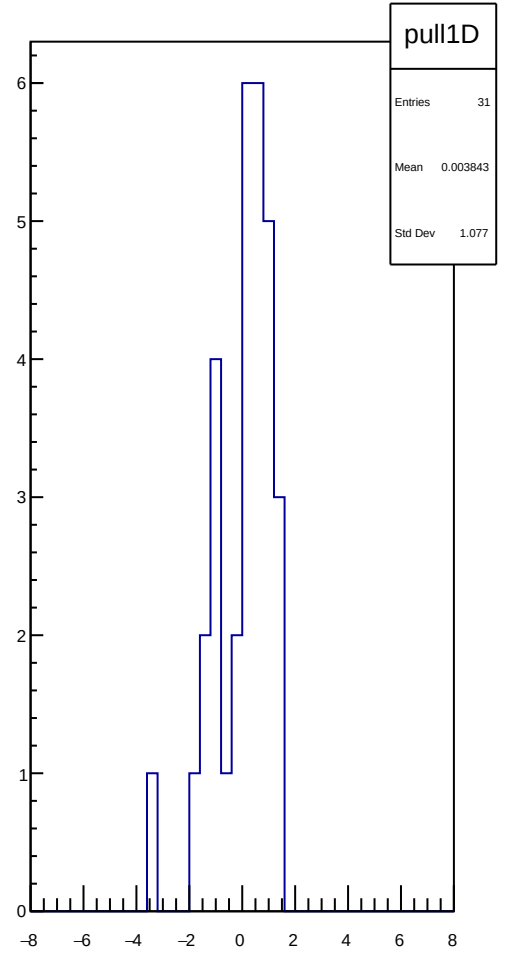

cor_asym_sam4_rms vs run
χ² / ndf 549 / 30
p0 392.5 ± 0.5088
440
430
420
410
400
390
380
370
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

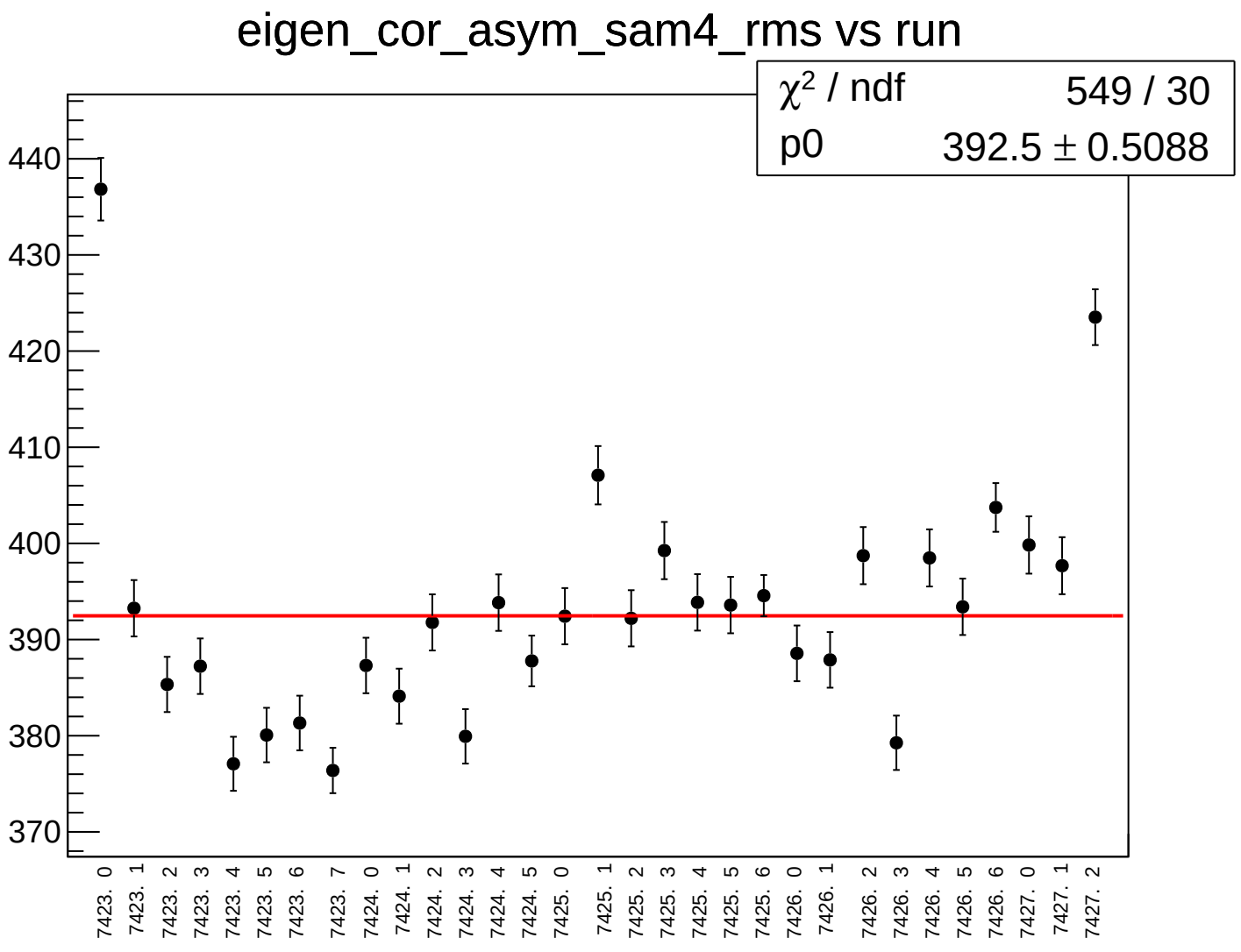

asym_sam4_cor_correction_mean vs run
χ² / ndf 31.84 / 30
p0 5307 ± 3904
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1098
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

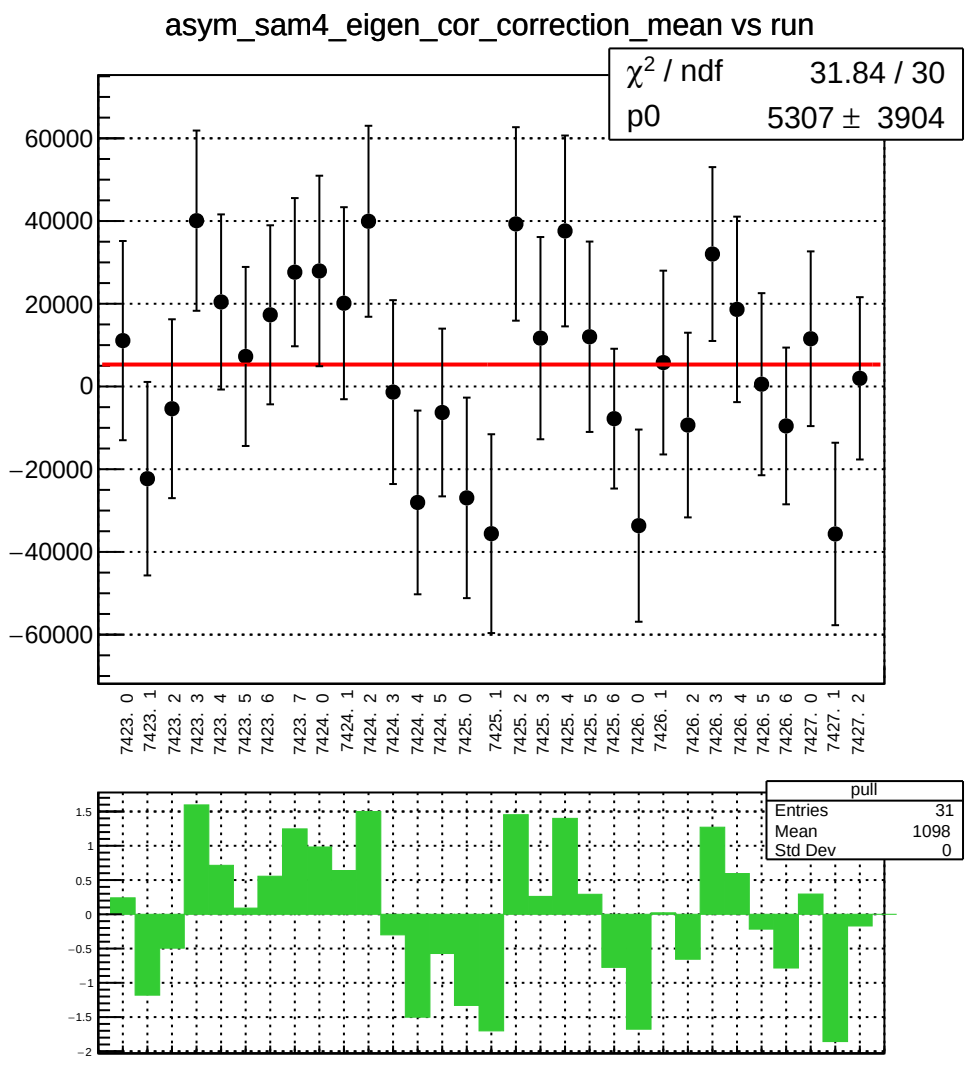

pull1D
Entries 31
Mean −0.001918
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

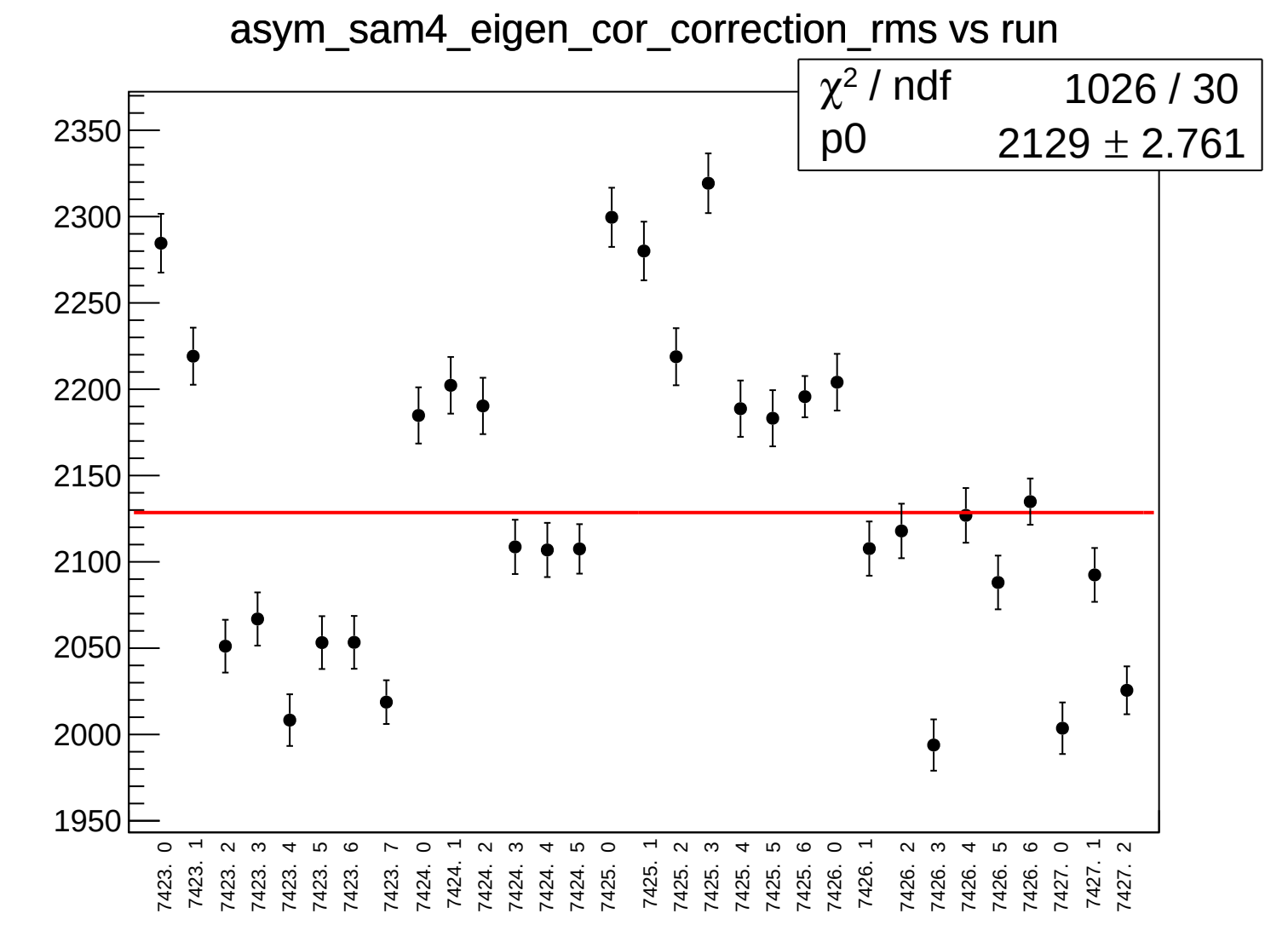

asym_sam4_cor_correction_rms vs run
χ² / ndf 1026 / 30
p0 2129 ± 2.761
2350
2300
2250
2200
2150
2100
2050
2000
1950
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

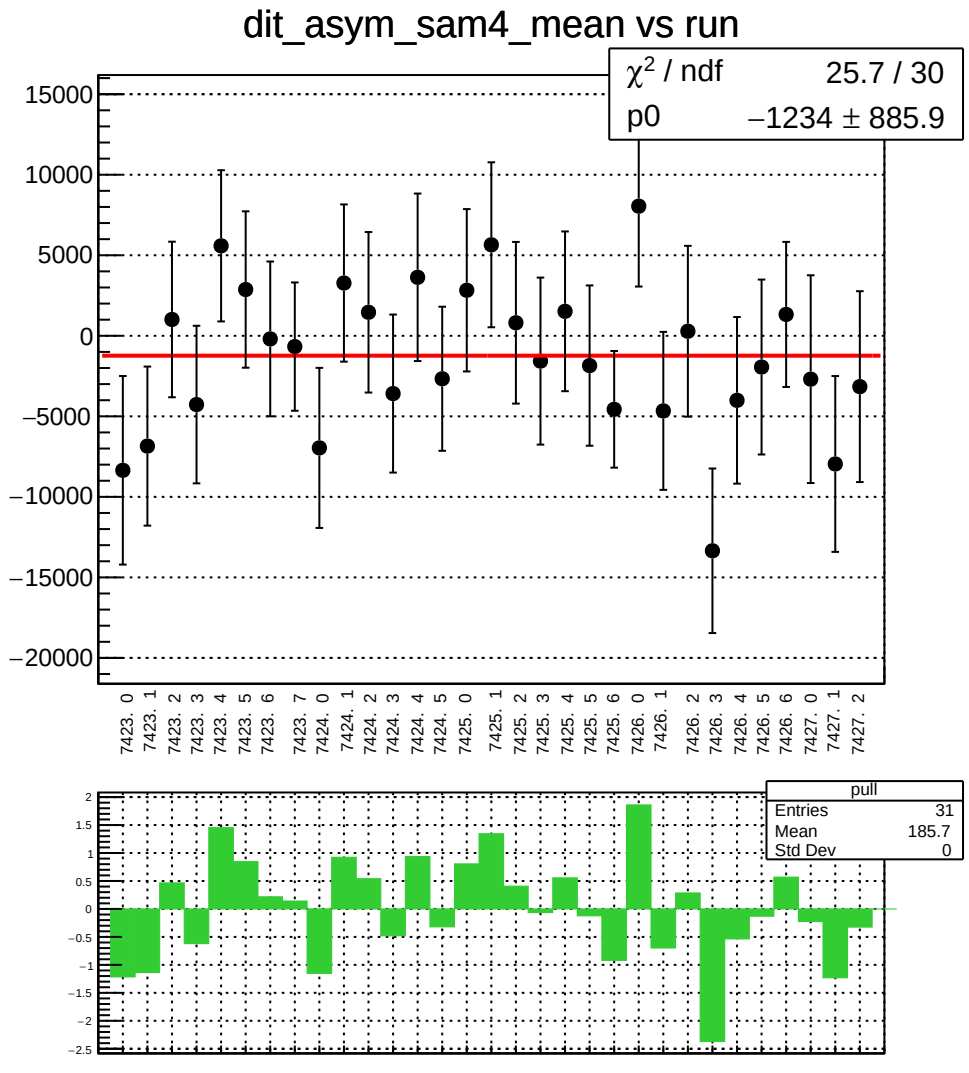

eigen_cor_asym_sam4_mean vs run
χ² / ndf 35.94 / 30
p0 −1196 ± 719.6
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −448.2
Std Dev 0
1
0
−1
−2
−3

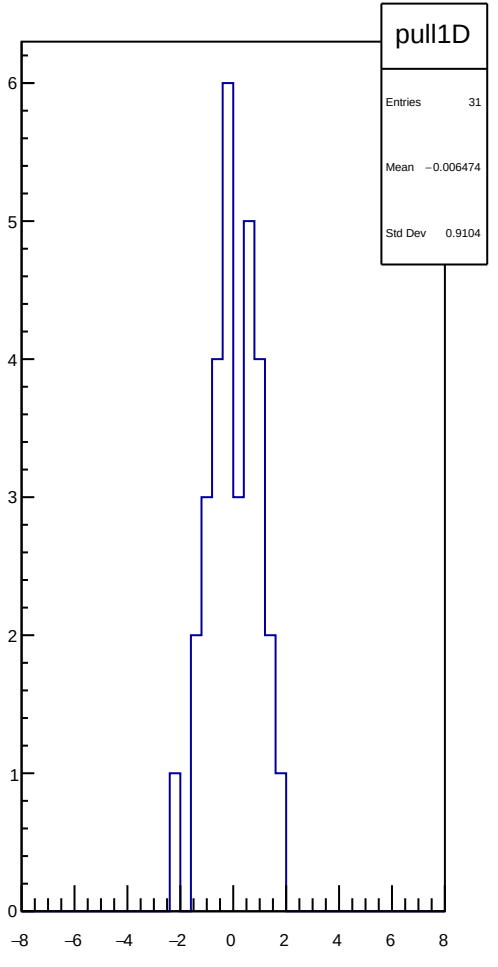

pull1D
Entries 31
Mean 0.003843
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

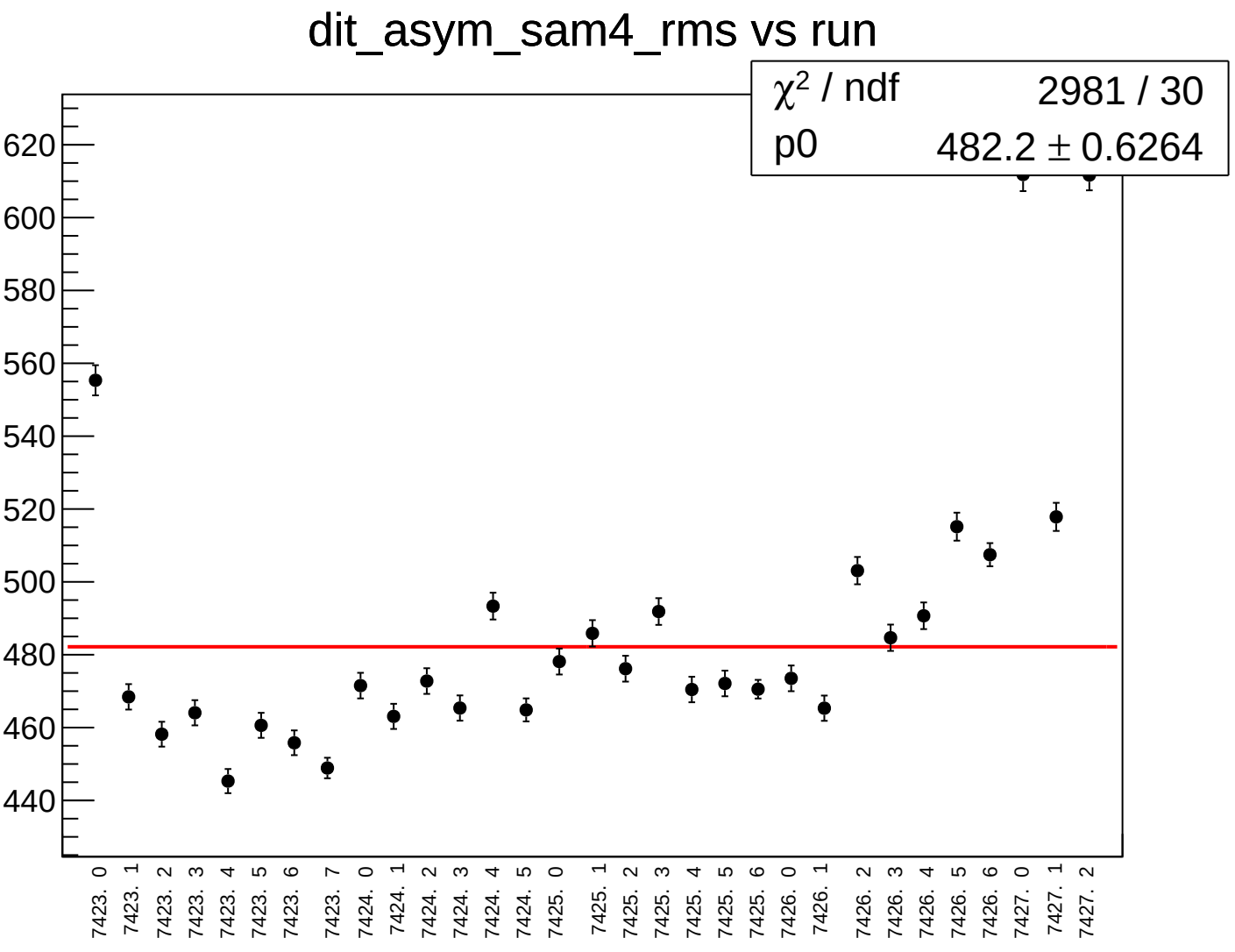

eigen_cor_asym_sam4_rms vs run
χ² / ndf 549 / 30
p0 392.5 ± 0.5088
440
430
420
410
400
390
380
370
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

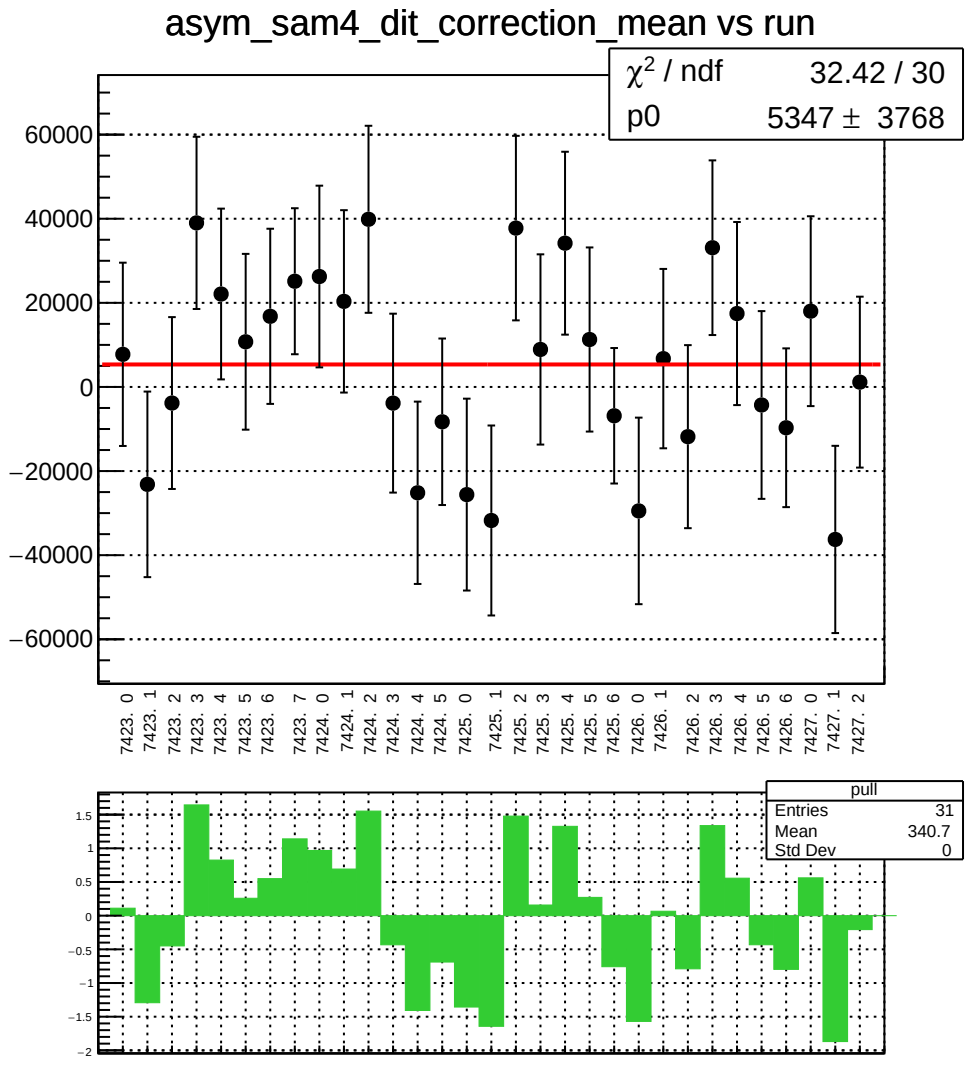

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 31.84 / 30
p0 5307 ± 3904
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1098
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.001918
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

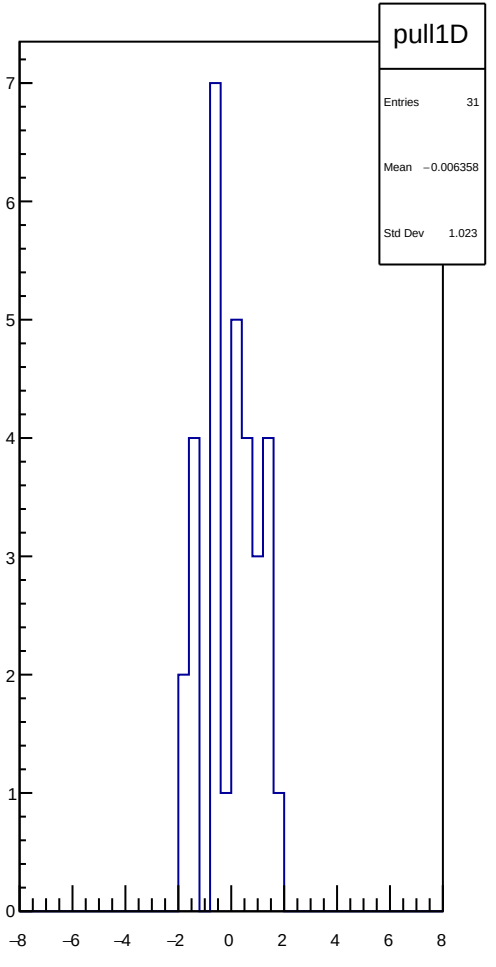

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 1026 / 30
p0 2129 ± 2.761
2350
2300
2250
2200
2150
2100
2050
2000
1950
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

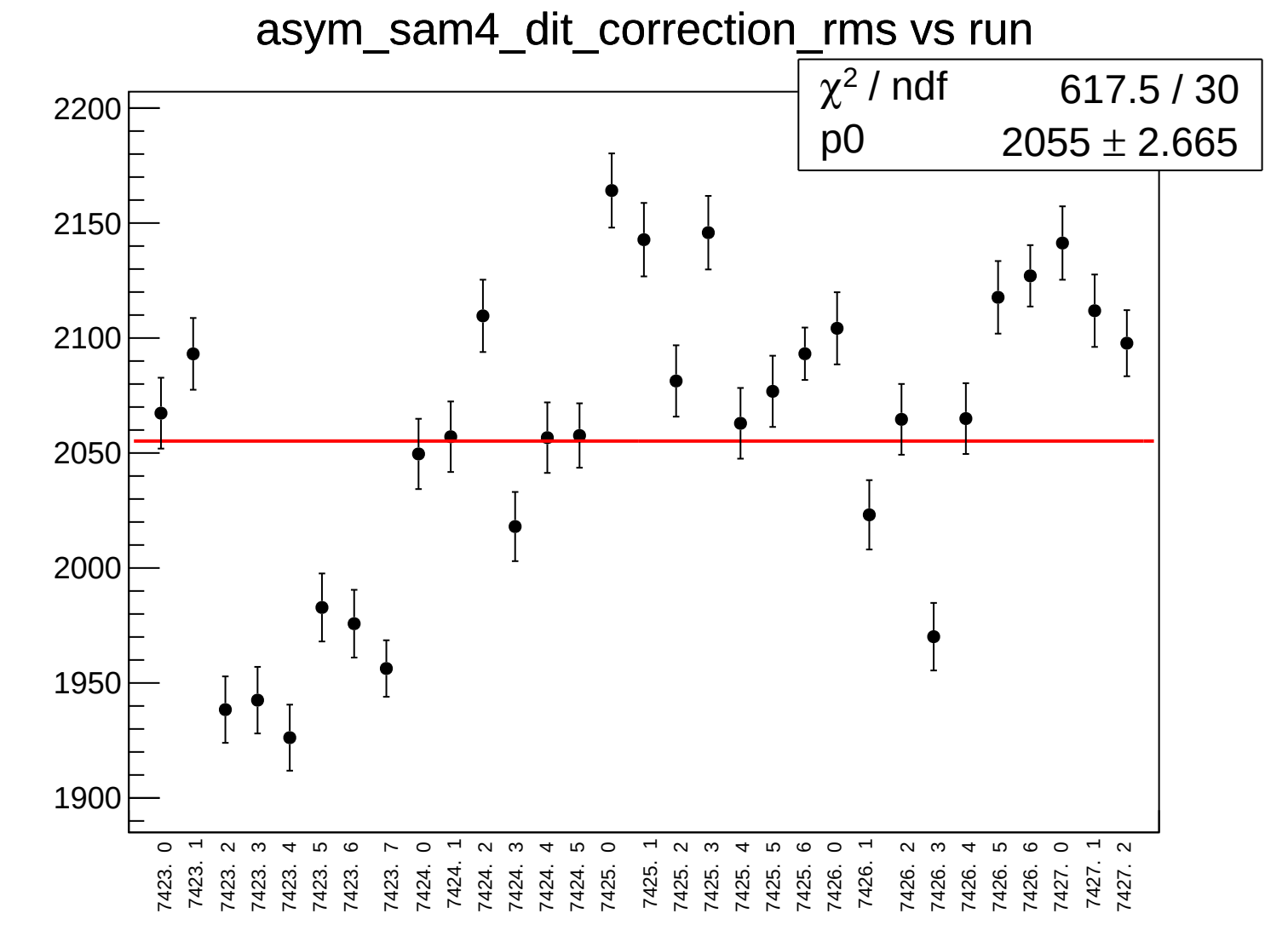

dit_asym_sam4_mean vs run
χ² / ndf 25.7 / 30
p0 −1234 ± 885.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 185.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

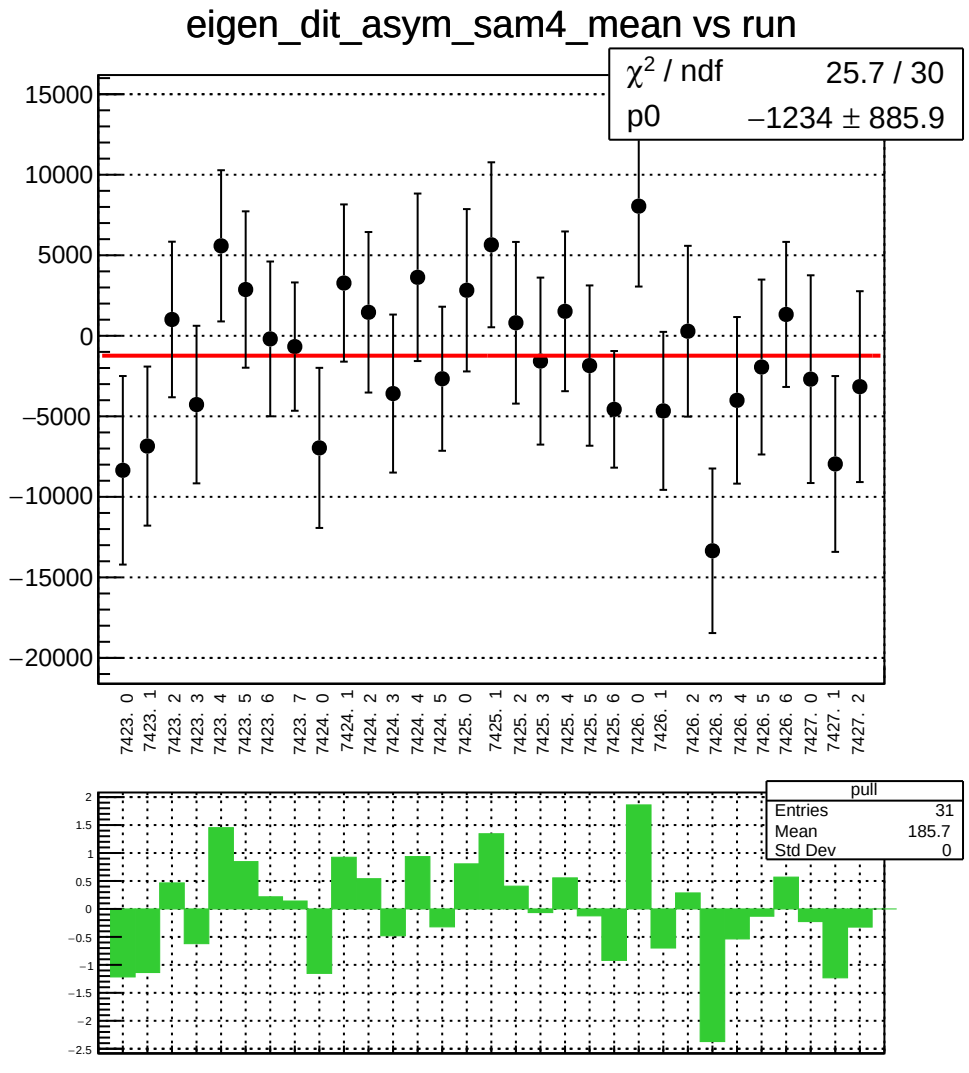

pull1D
Entries 31
Mean −0.006474
Std Dev 0.9104
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

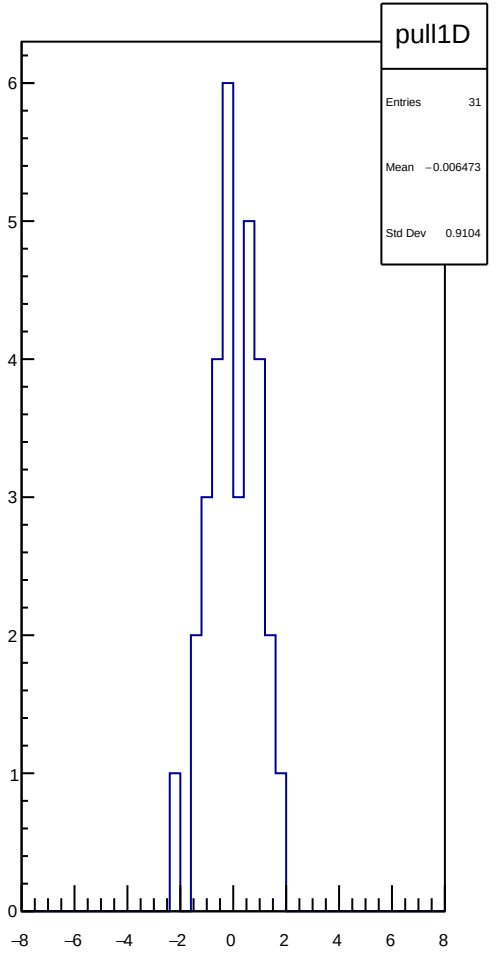

dit_asym_sam4_rms vs run
χ² / ndf 2981 / 30
p0 482.2 ± 0.6264
620
600
580
560
540
520
500
480
460
440
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

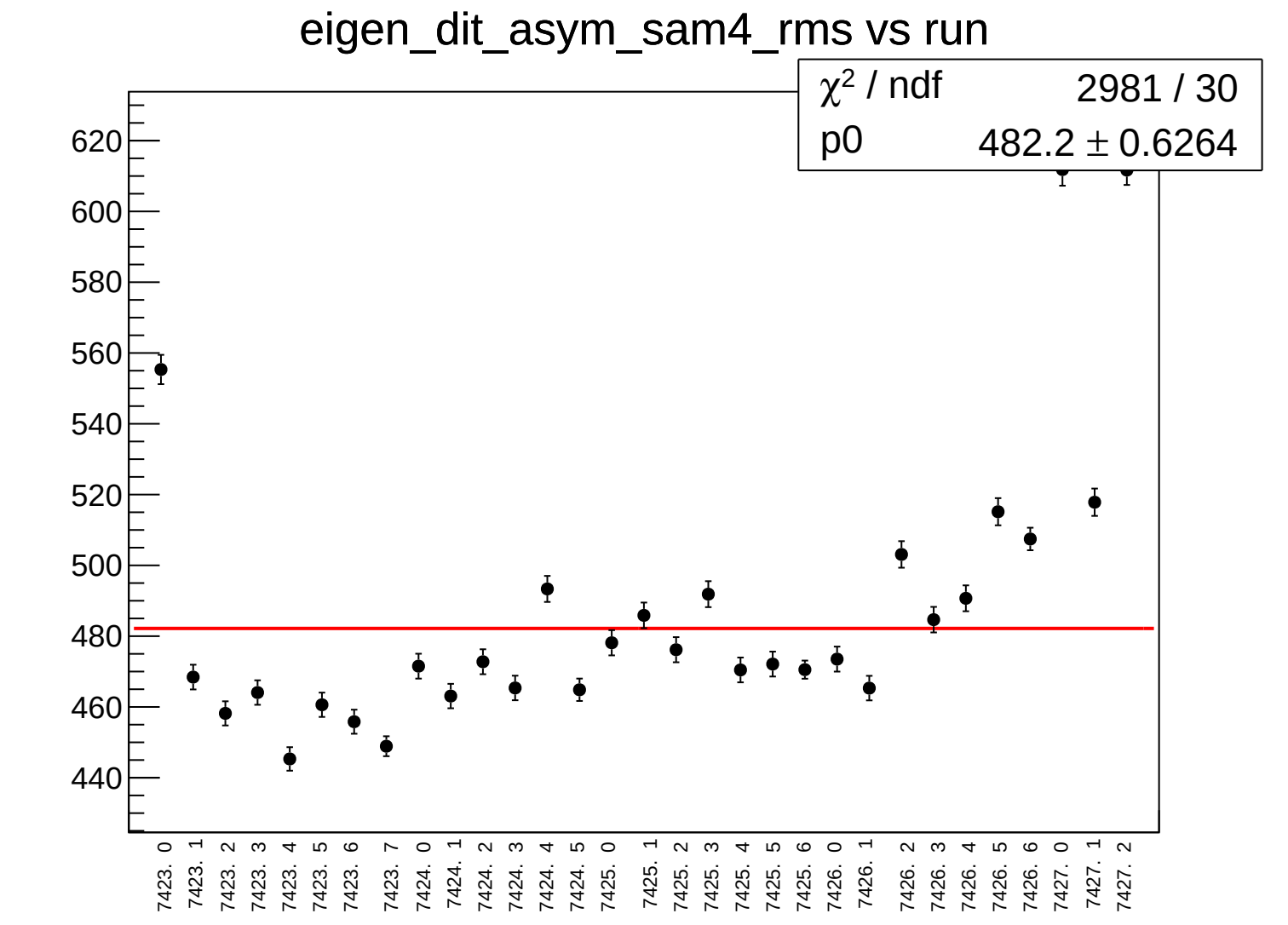

asym_sam4_dit_correction_mean vs run
χ² / ndf 32.42 / 30
p0 5347 ± 3768
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 340.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

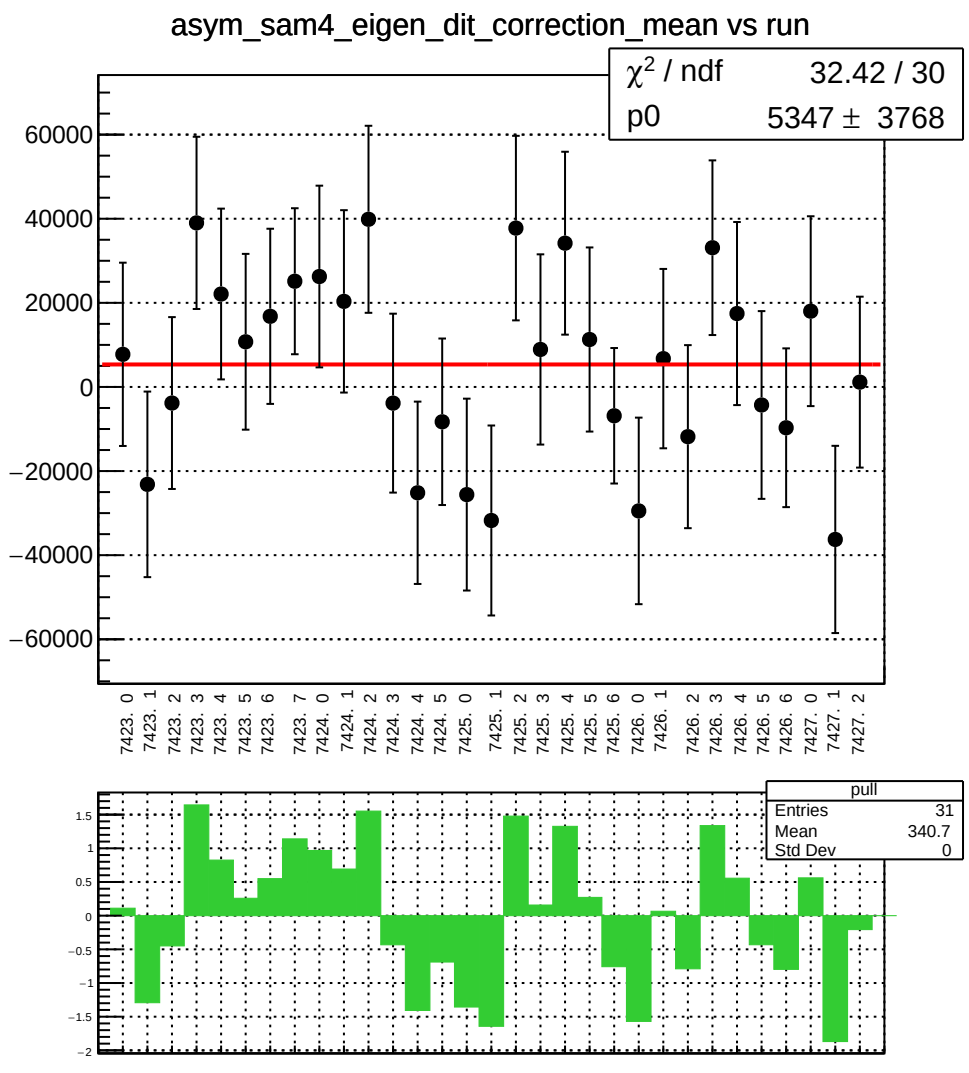

pull1D
Entries 31
Mean −0.006358
Std Dev 1.023
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

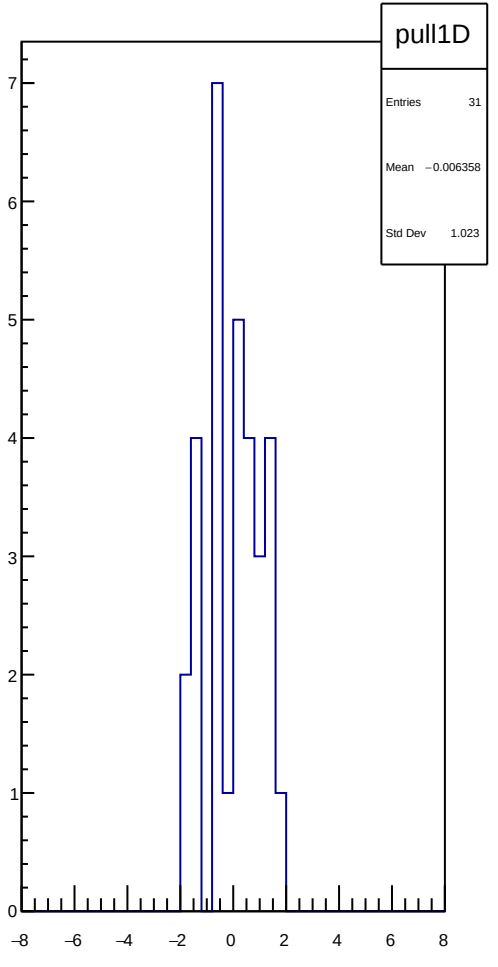

asym_sam4_dit_correction_rms vs run
χ² / ndf 617.5 / 30
p0 2055 ± 2.665
2200
2150
2100
2050
2000
1950
1900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

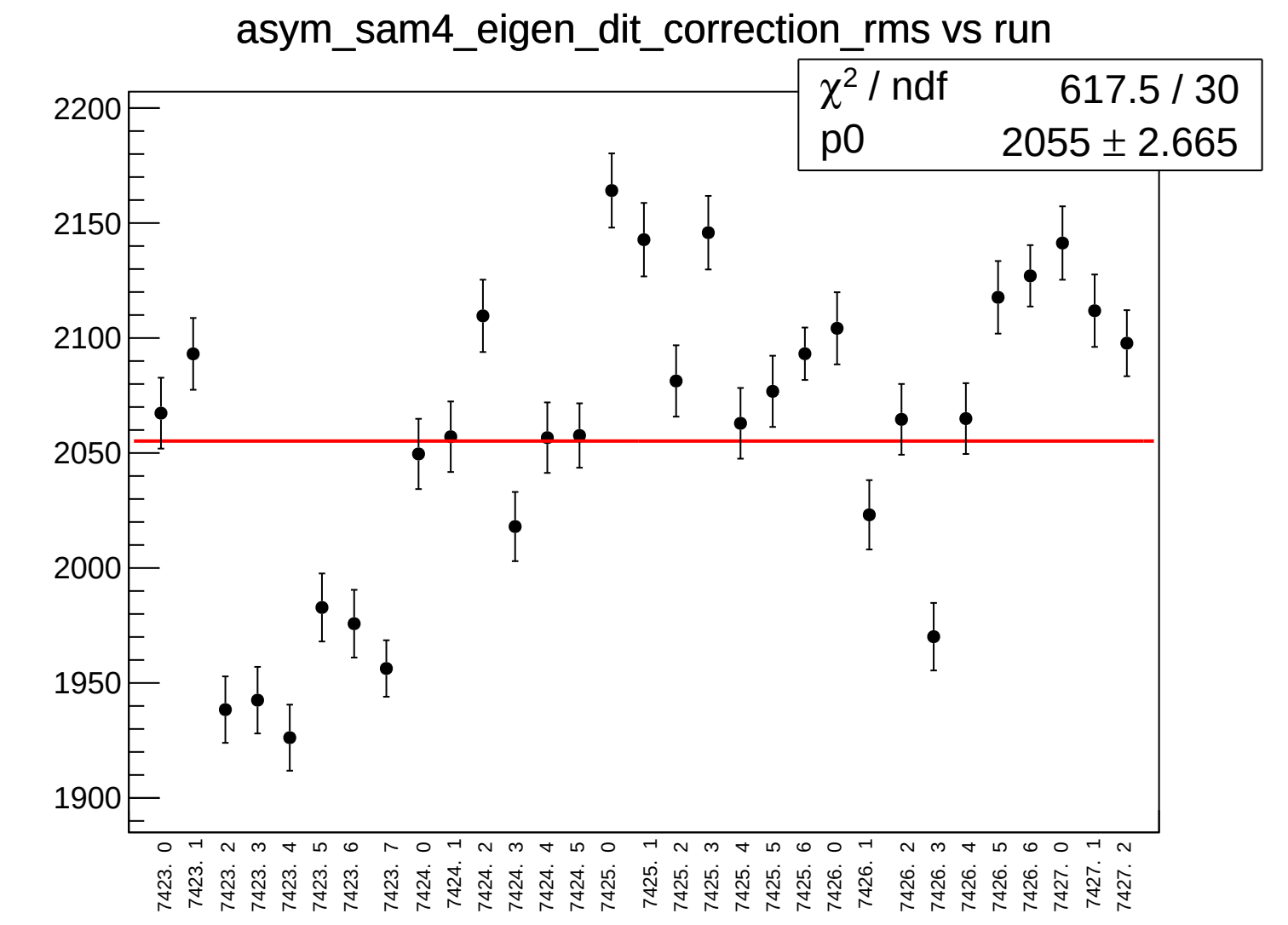

eigen_dit_asym_sam4_mean vs run
χ² / ndf 25.7 / 30
p0 −1234 ± 885.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 185.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

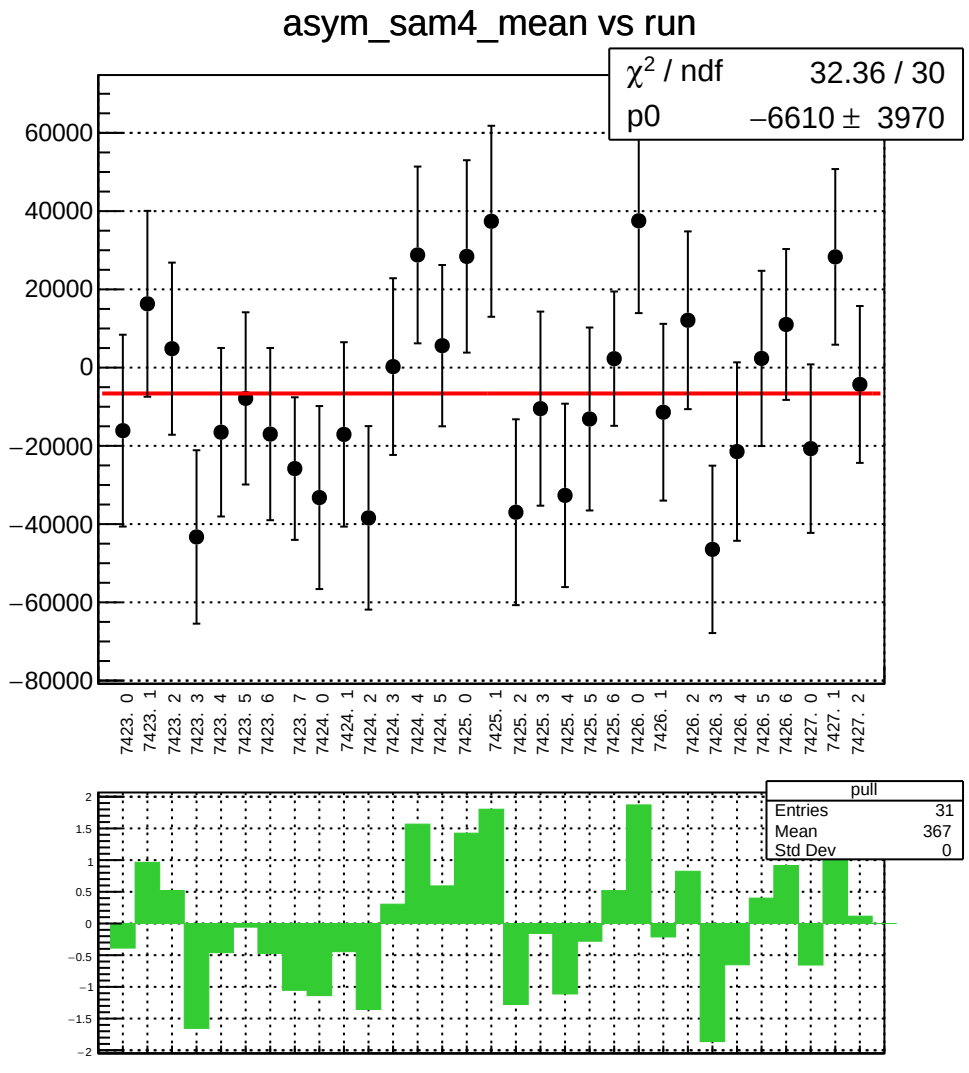

pull1D
Entries 31
Mean −0.006473
Std Dev 0.9104
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

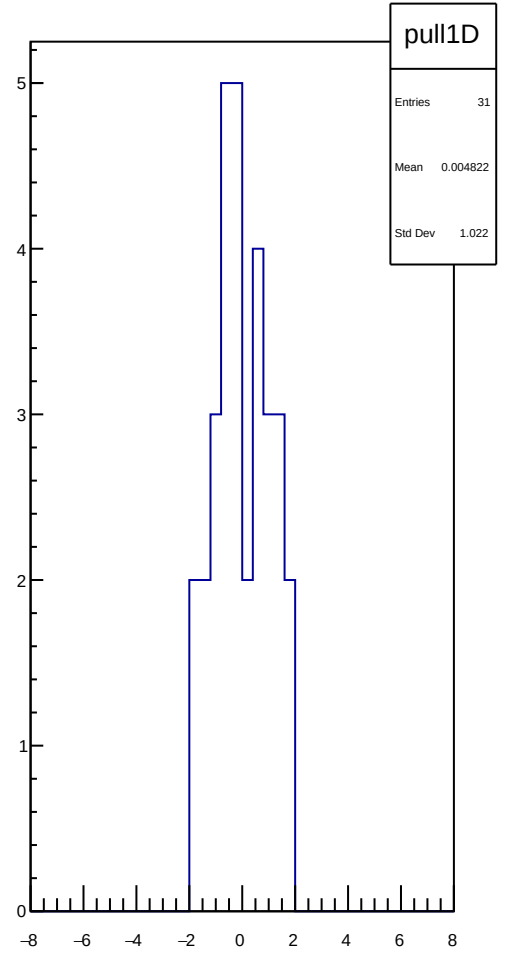

eigen_dit_asym_sam4_rms vs run
χ² / ndf 2981 / 30
p0 482.2 ± 0.6264
620
600
580
560
540
520
500
480
460
440
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

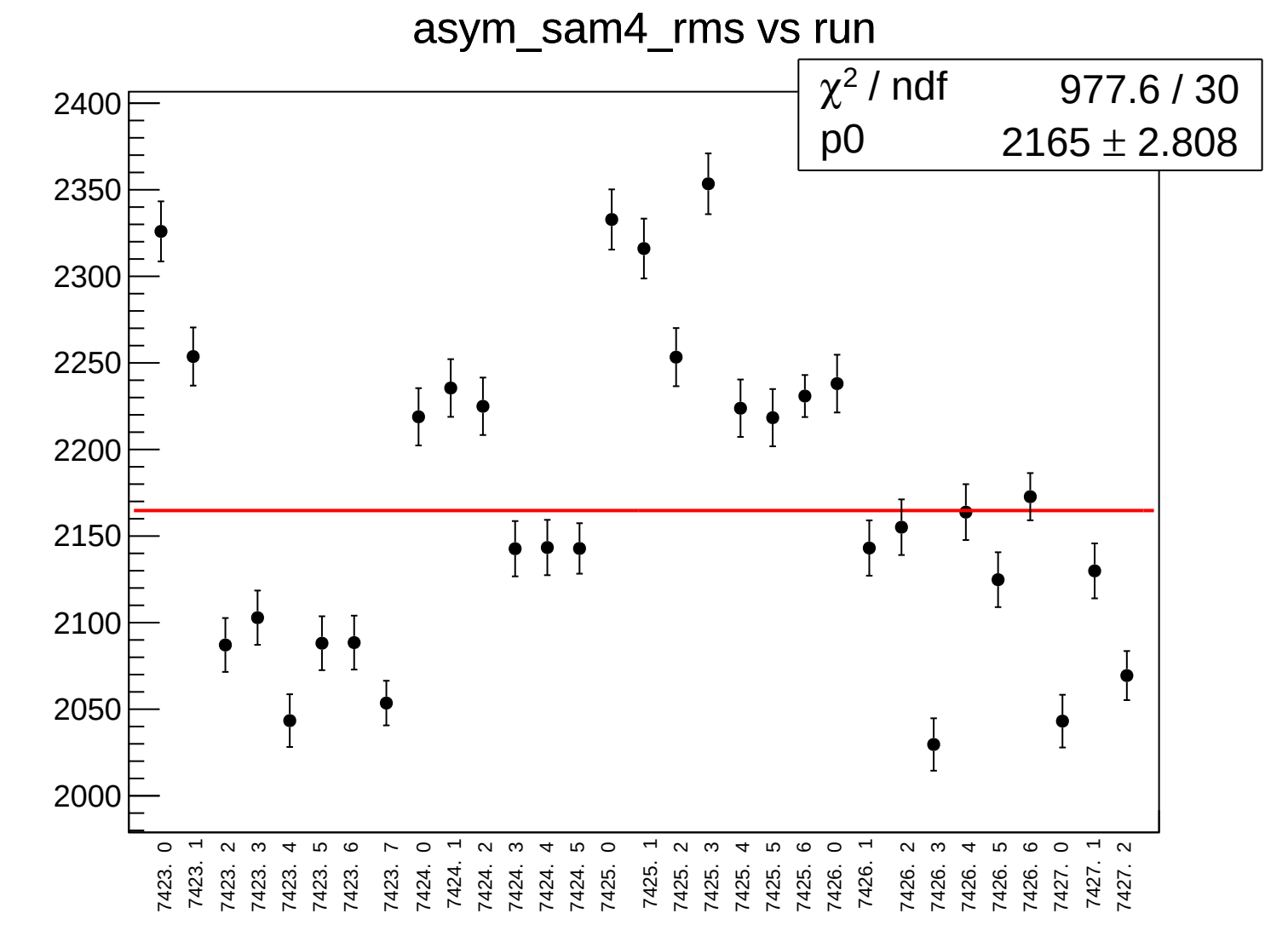

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 32.42 / 30
p0 5347 ± 3768
60000
40000
20000
0
−20000
−40000
−60000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 340.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

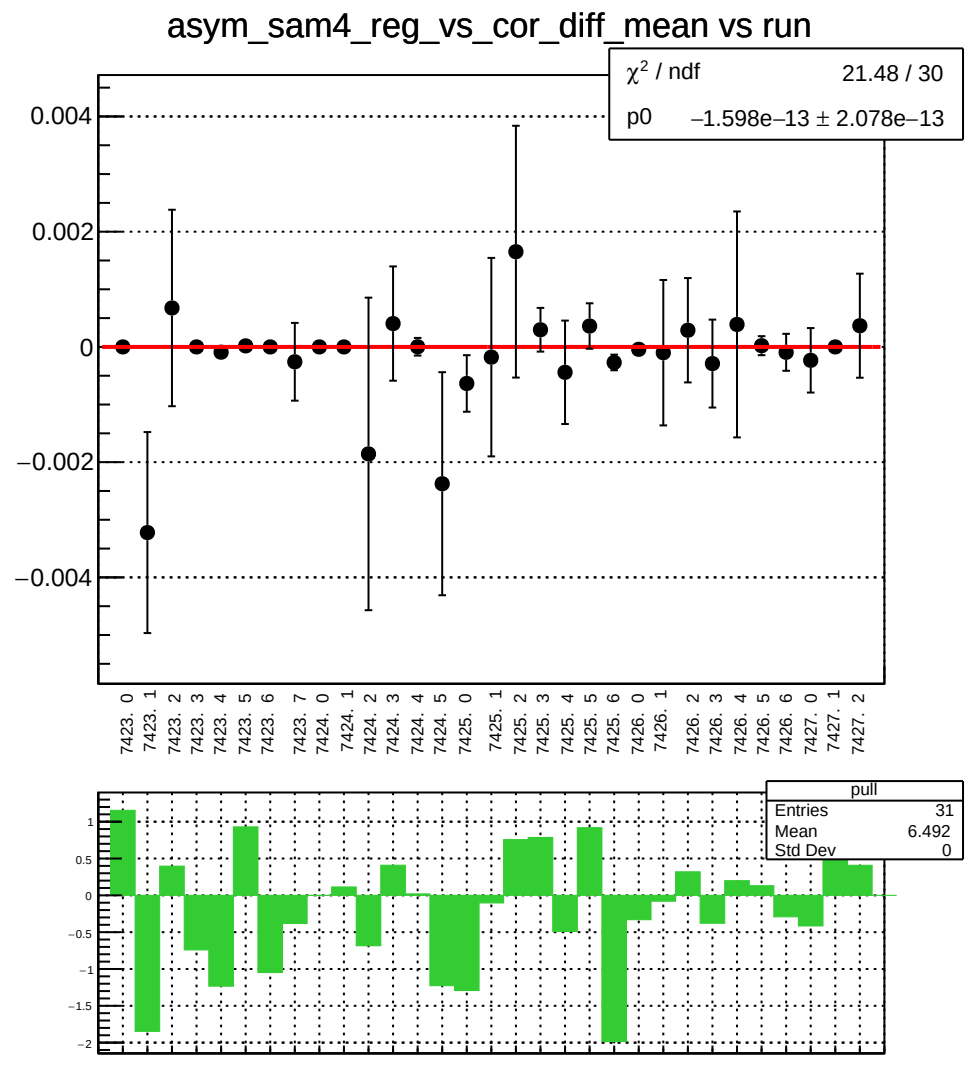

pull1D
Entries 31
Mean −0.006358
Std Dev 1.023
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

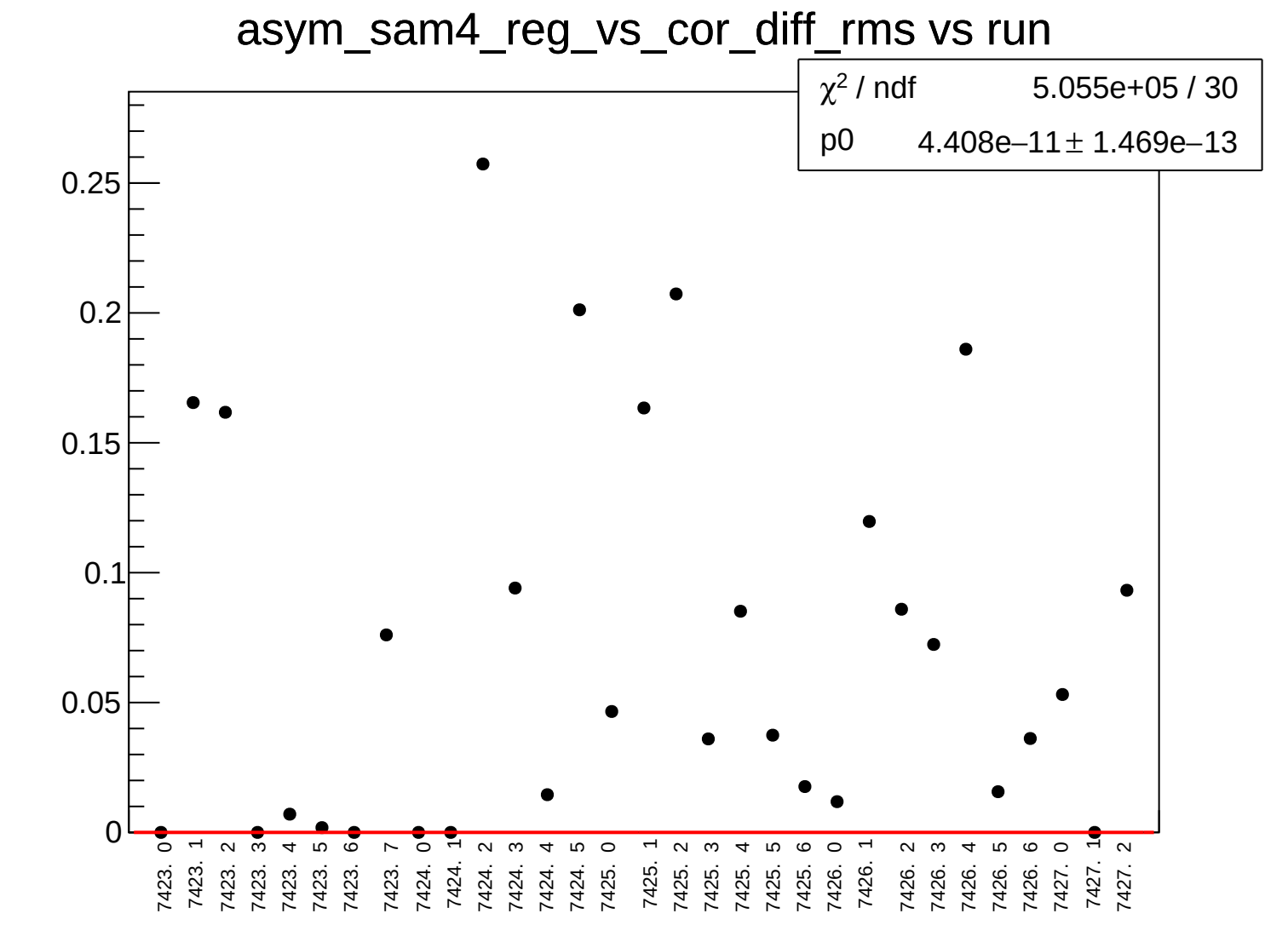

asym_sam4_eigen_dit_correction_rms vs run
χ^2 / ndf 617.5 / 30
p0 2055 ± 2.665
2200
2150
2100
2050
2000
1950
1900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

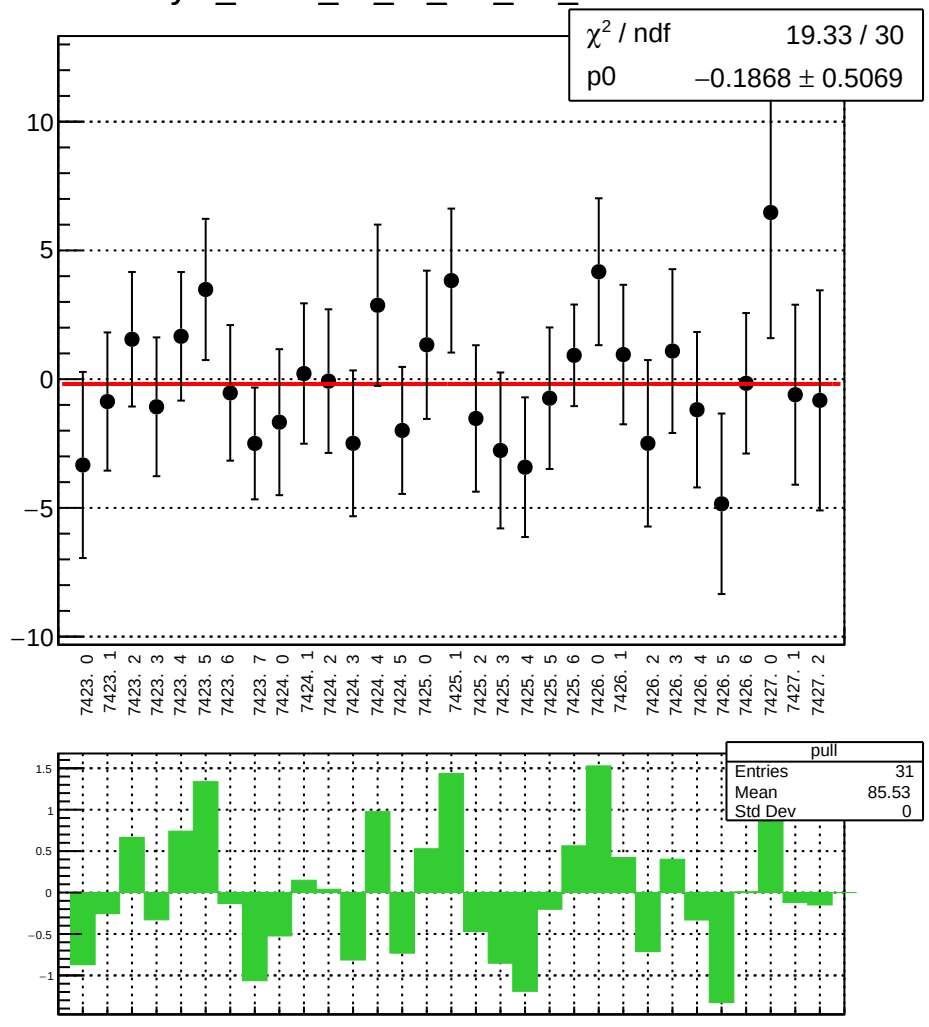

asym_sam4_mean vs run
χ² / ndf 32.36 / 30
p0 −6610 ± 3970
60000
40000
20000
0
−20000
−40000
−60000
−80000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 367
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

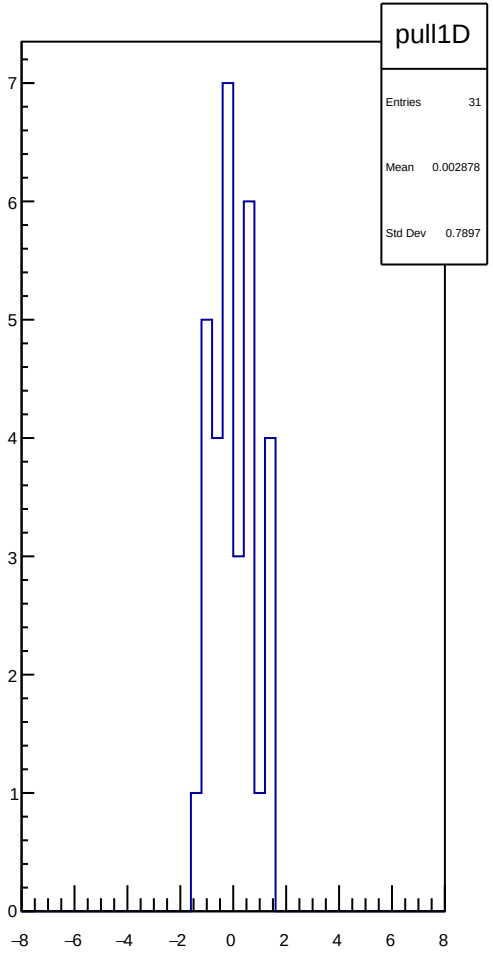

pull1D
Entries 31
Mean 0.004822
Std Dev 1.022
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

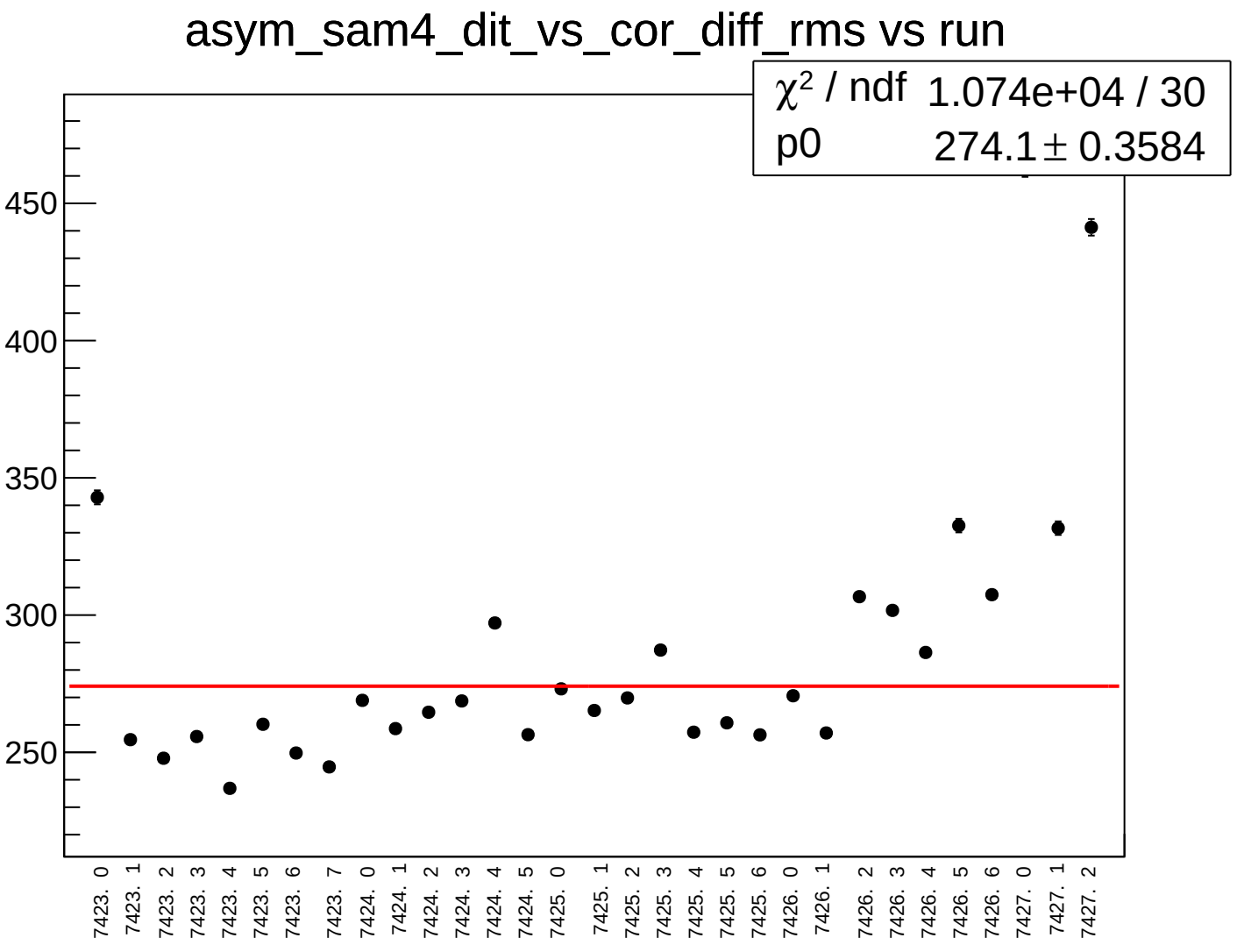

asym_sam4_rms vs run
χ² / ndf 977.6 / 30
p0 2165 ± 2.808
2400
2350
2300
2250
2200
2150
2100
2050
2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

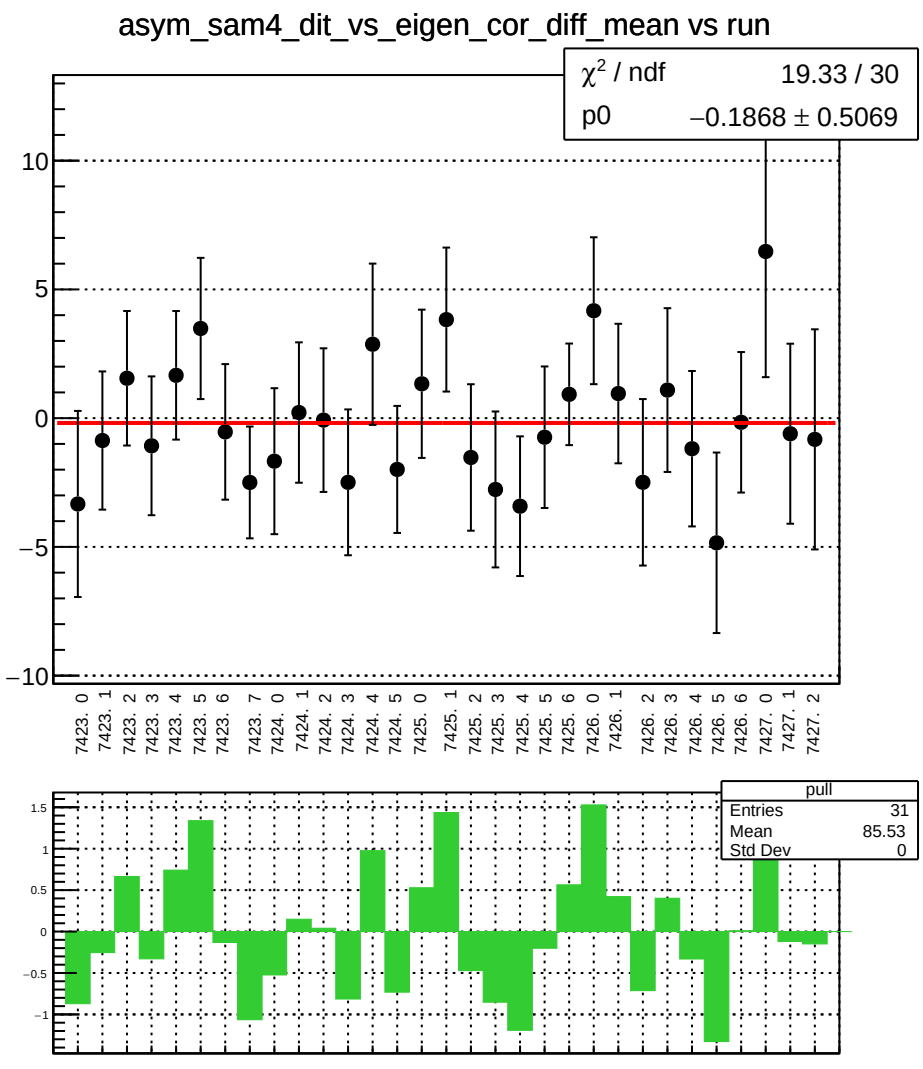

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 21.48 / 30
p0 −1.598e−13 ± 2.078e−13
0.004
0.002
0
−0.002
−0.004
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 6.492
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.1536
Std Dev 0.8182
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

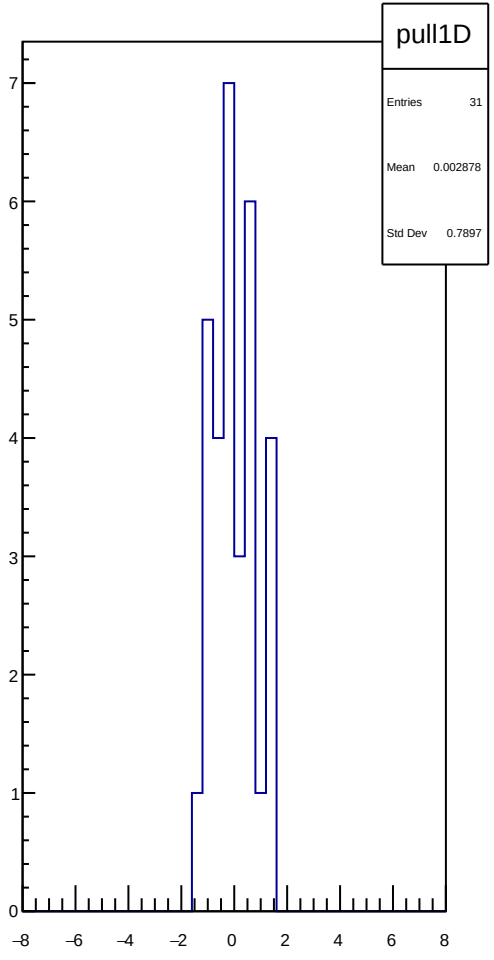

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 5.055e+05 / 30
p0 4.408e−11 ± 1.469e−13
0.25
0.2
0.15
0.1
0.05
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

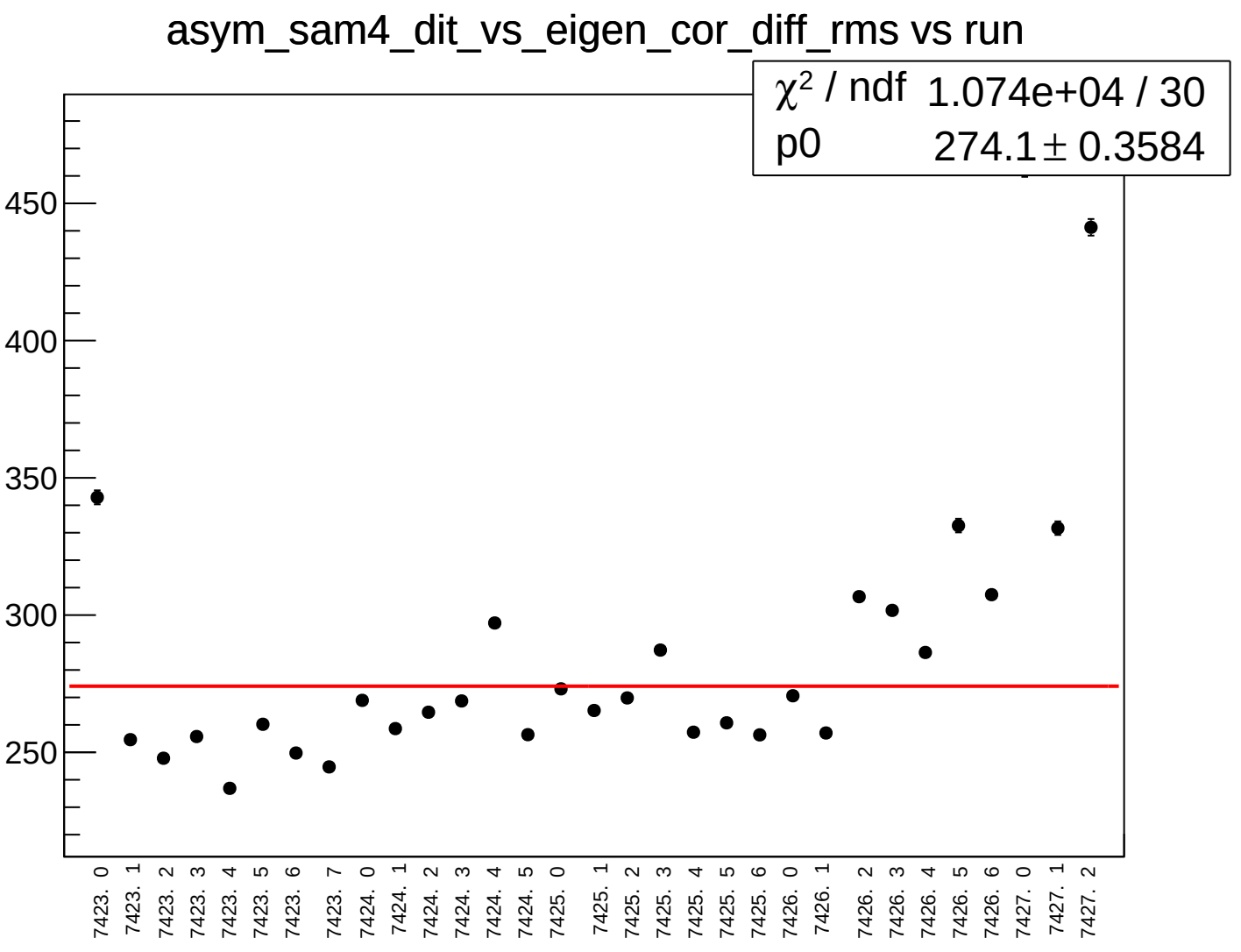

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 19.33 / 30
p0 −0.1868 ± 0.5069
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 85.53
Std Dev 0
1.5
1
0.5
0
−0.5
−1

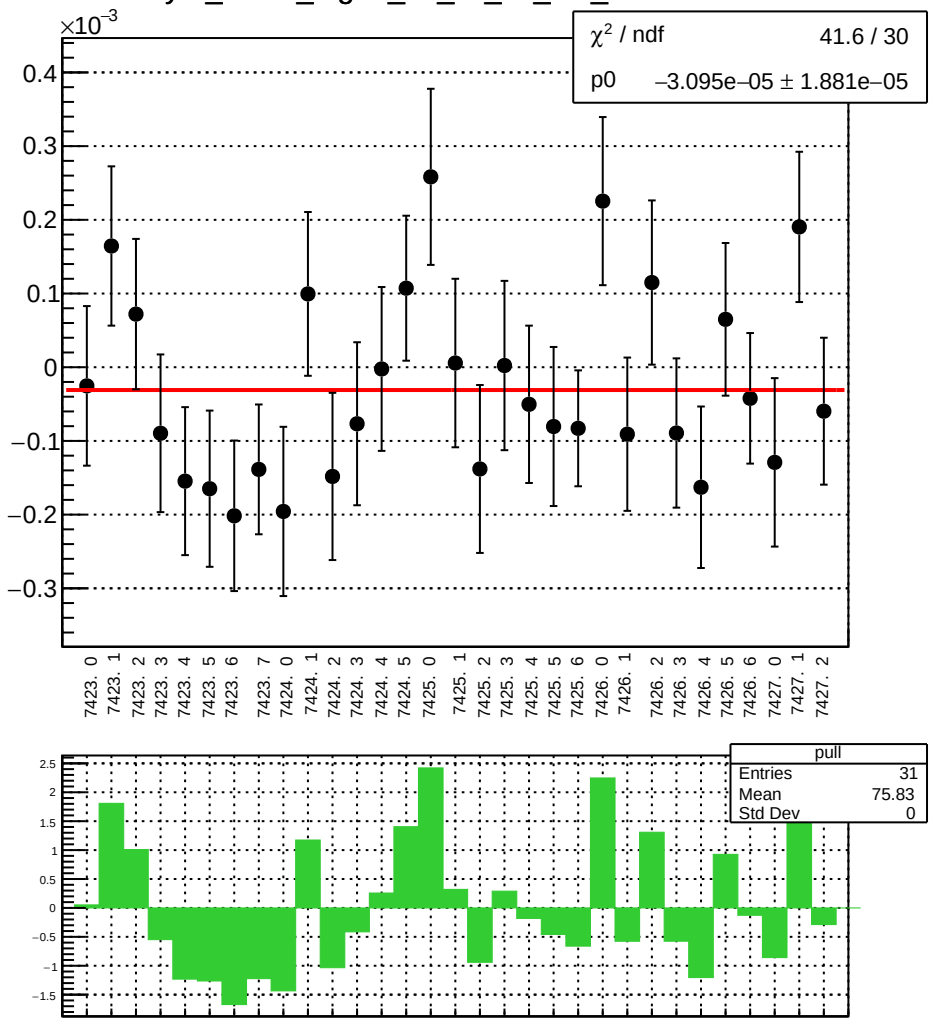

pull1D
Entries 31
Mean 0.002878
Std Dev 0.7897
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

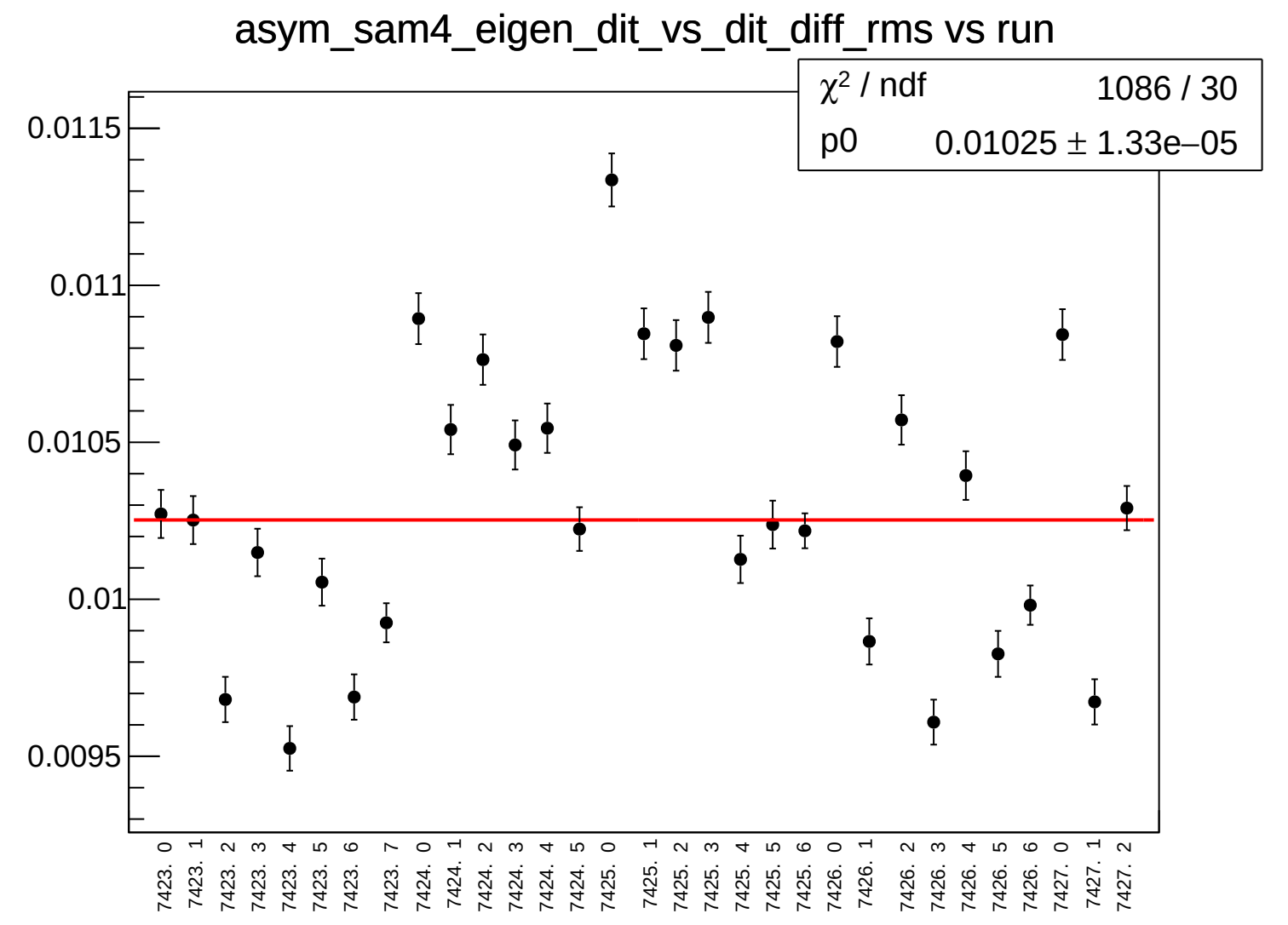

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.074e+04 / 30
p0 274.1 ± 0.3584
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

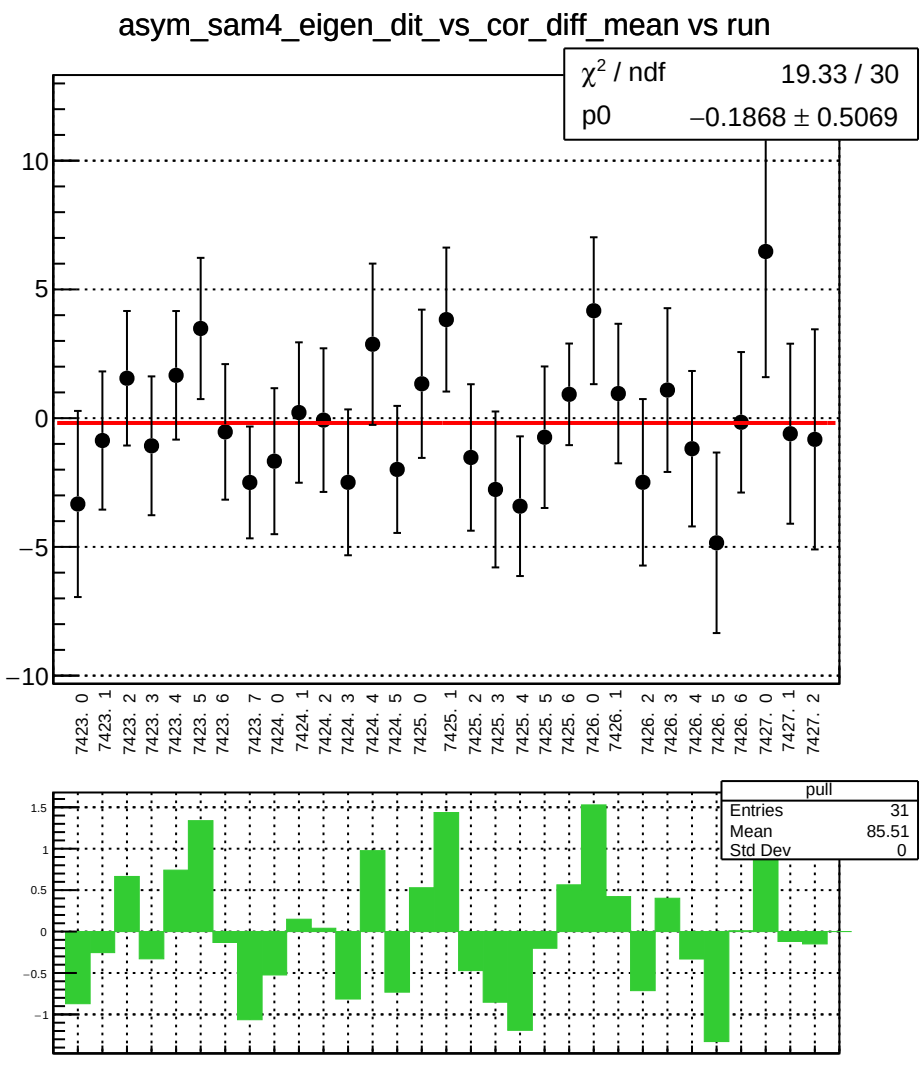

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.33 / 30
p0 −0.1868 ± 0.5069
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 85.53
Std Dev 0
1.5
1
0.5
0
−0.5
−1

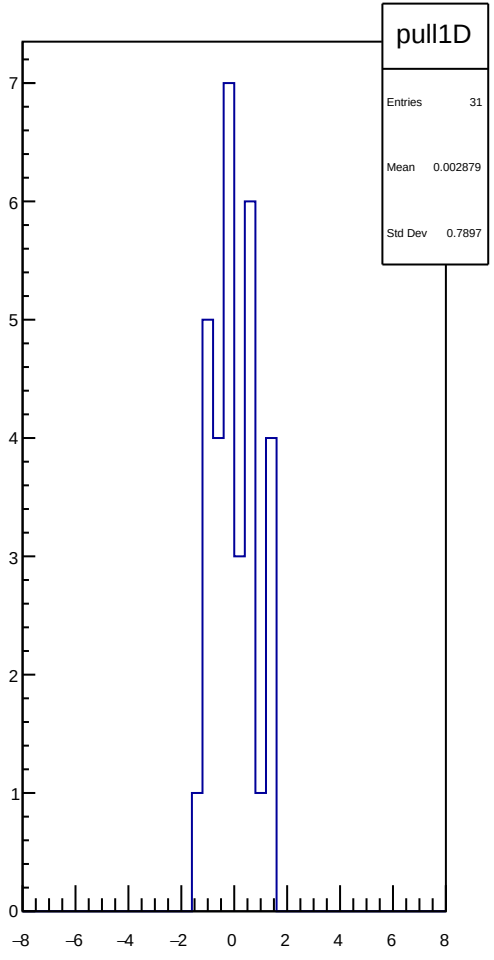

pull1D
Entries 31
Mean 0.002878
Std Dev 0.7897
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

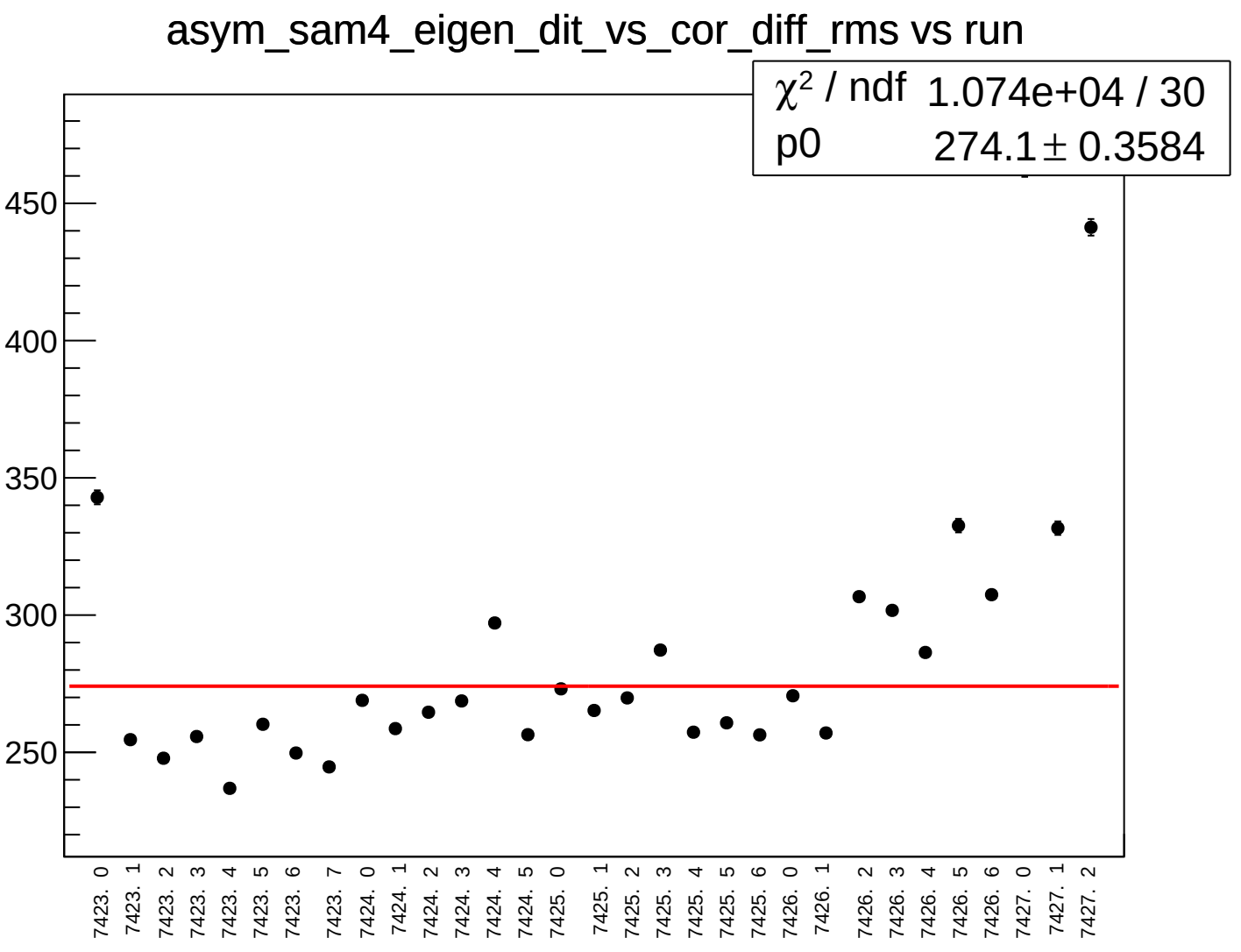

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.074e+04 / 30
p0 274.1 ± 0.3584
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

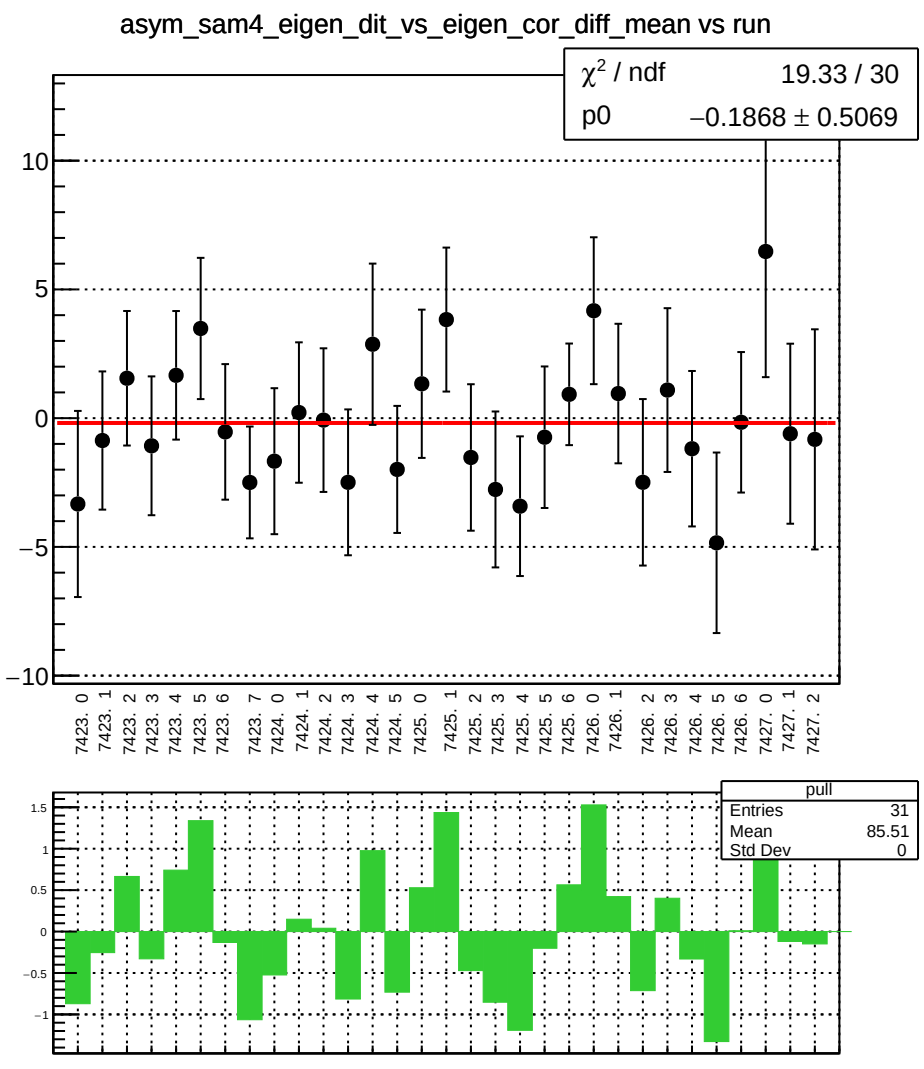

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.6 / 30
p0 −3.095e−05 ± 1.881e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 75.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.02267
Std Dev 1.158
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

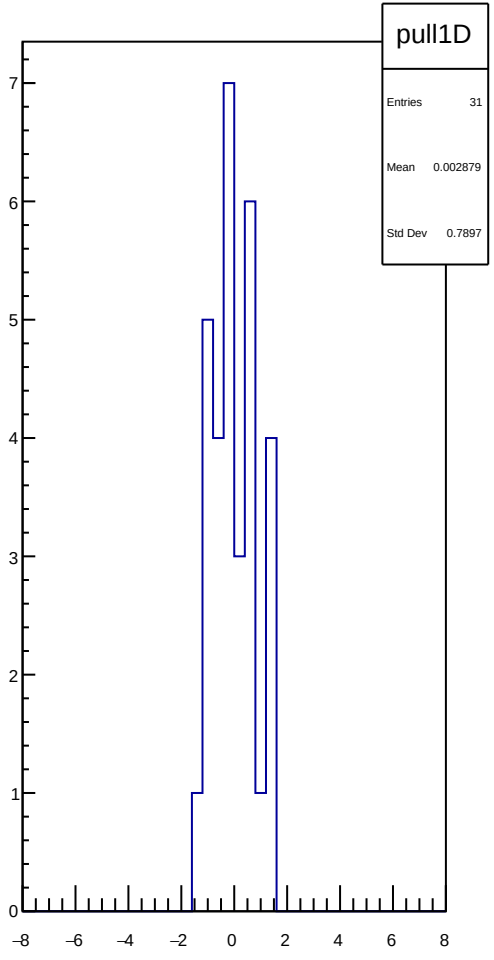

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1086 / 30
p0 0.01025 ± 1.33e−05
0.0115
0.011
0.0105
0.01
0.0095
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

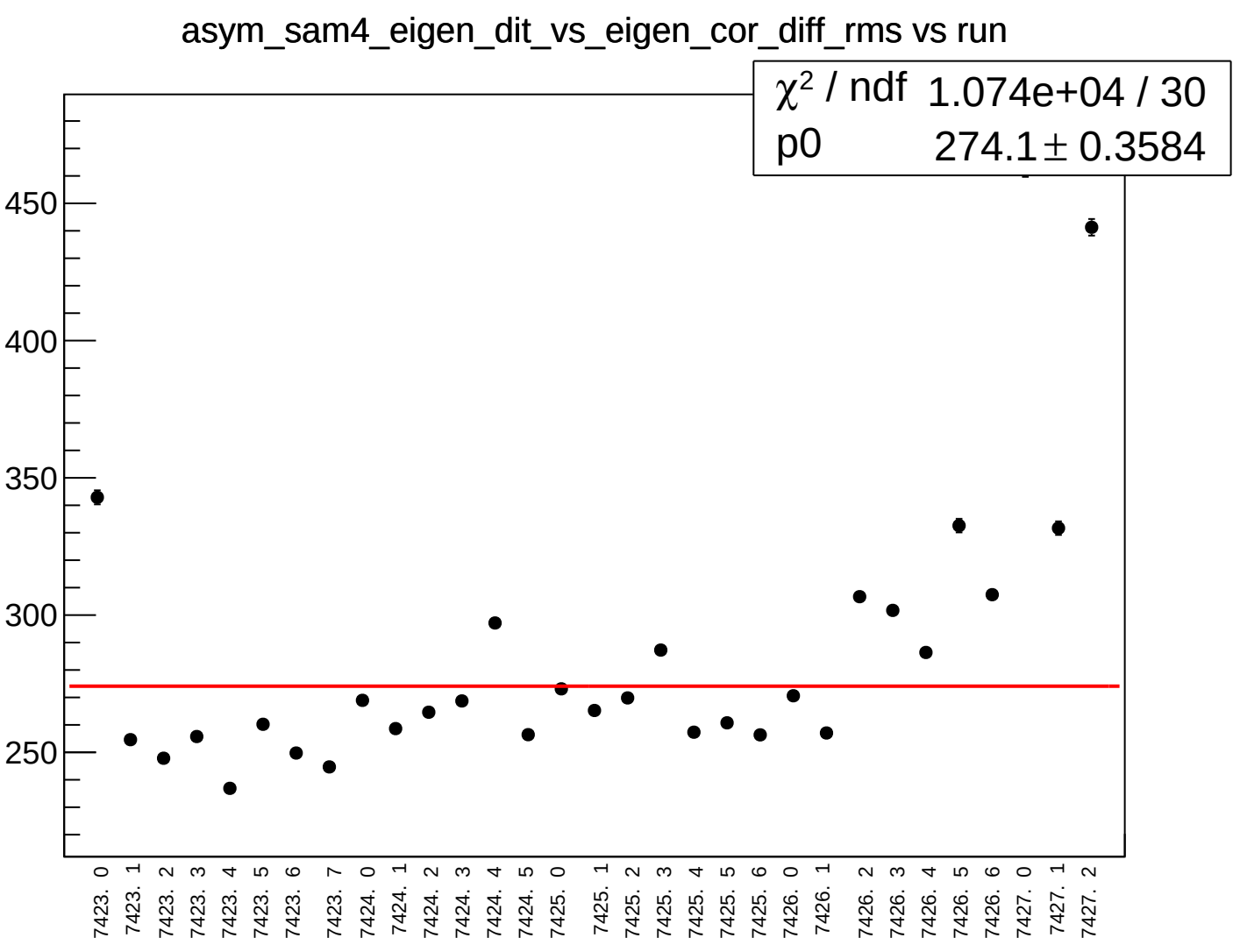

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.33 / 30
p0 −0.1868 ± 0.5069
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 85.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1

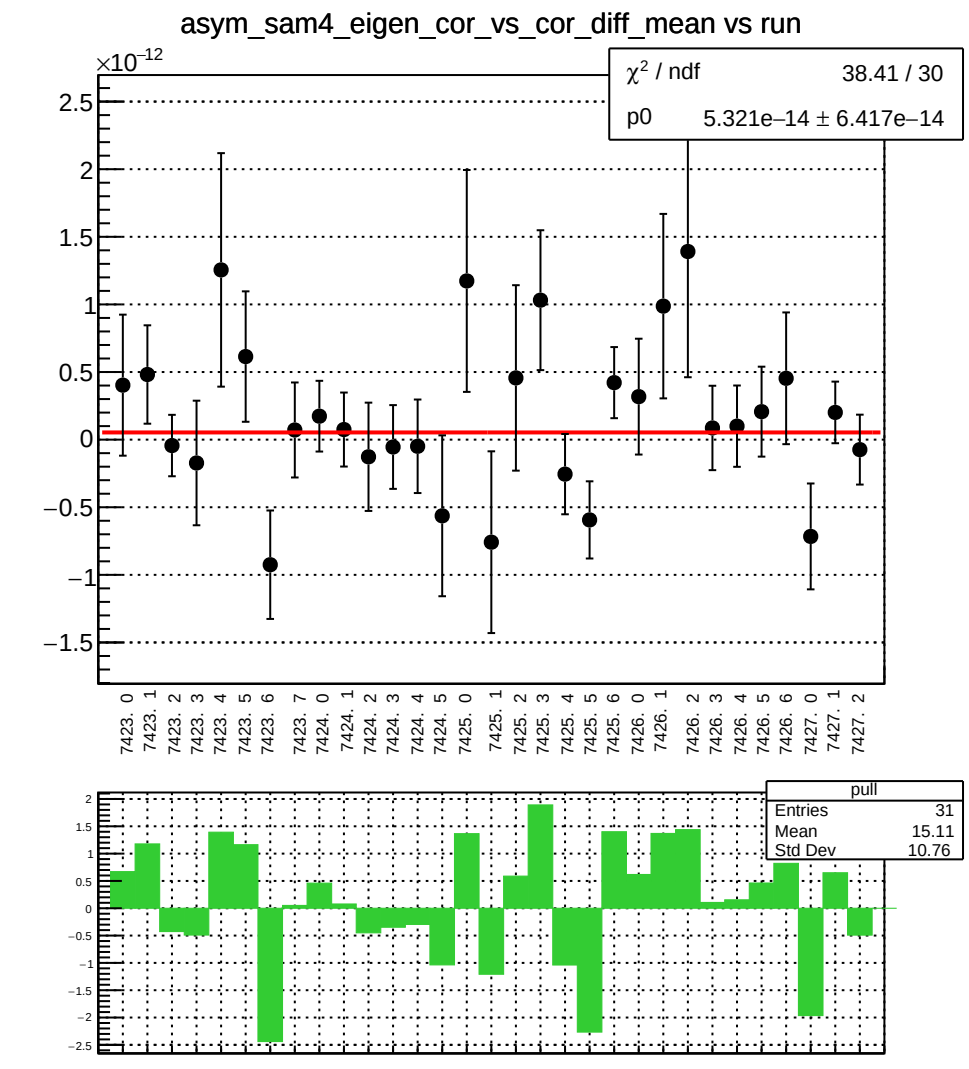

pull1D
Entries 31
Mean 0.002879
Std Dev 0.7897
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

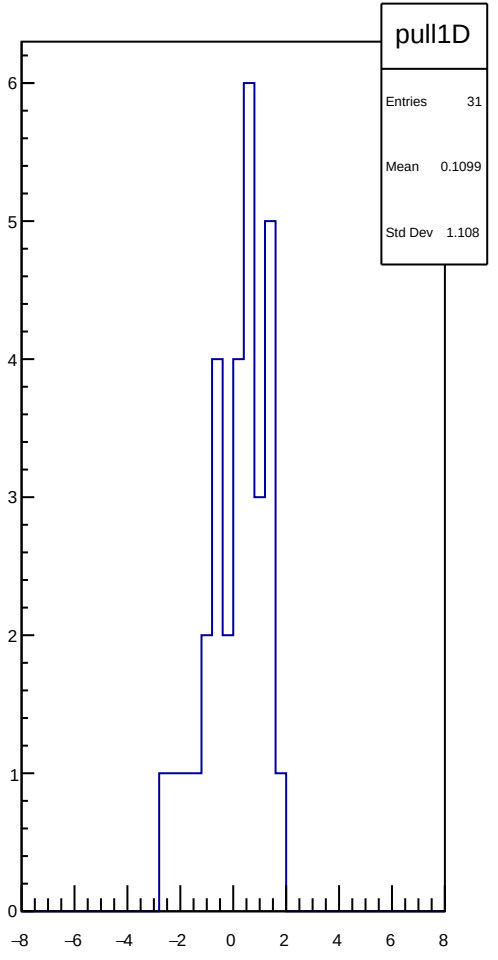

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.074e+04 / 30
p0 274.1 ± 0.3584
450
400
350
300
250
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

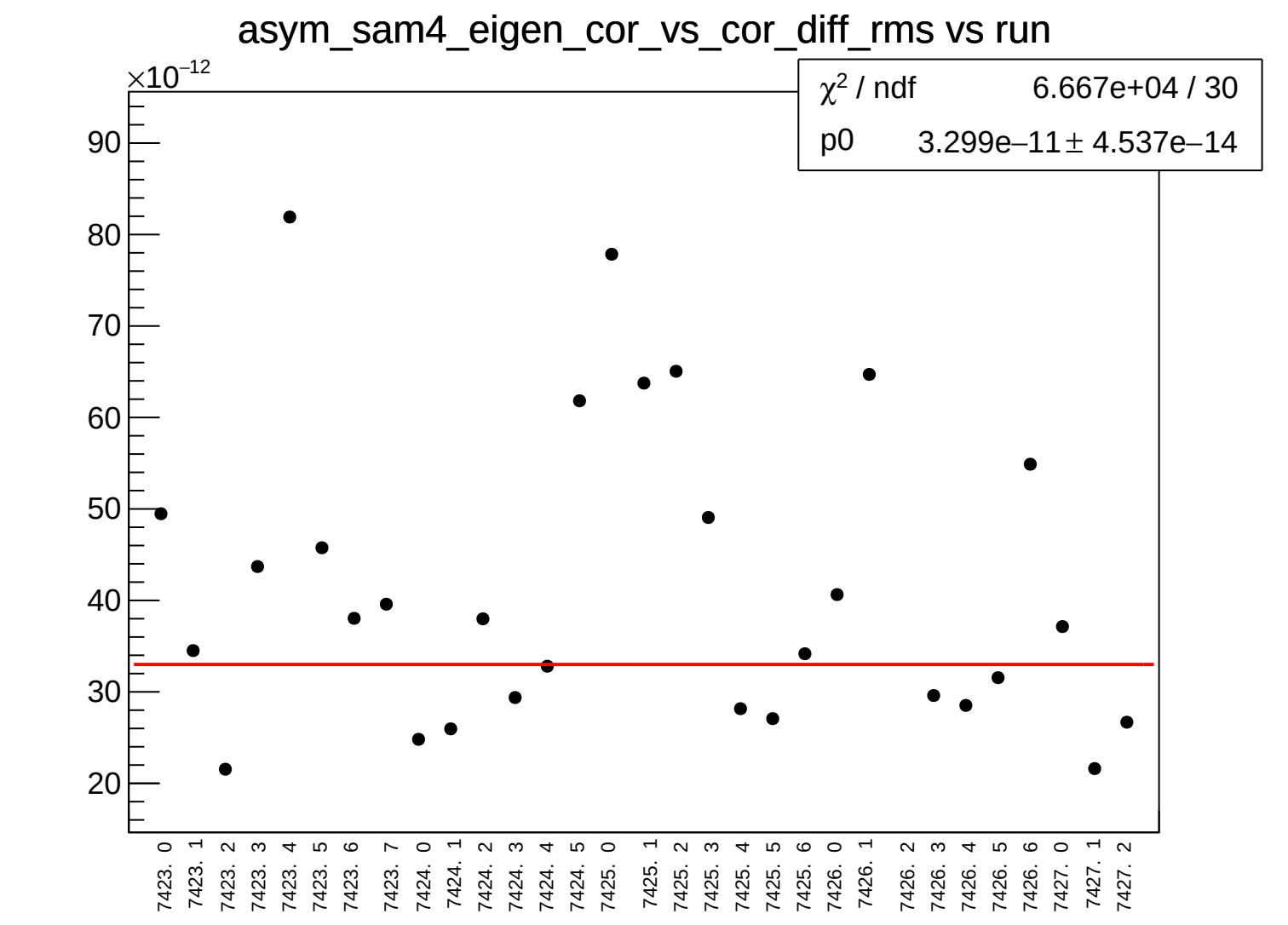

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.33 / 30
p0 −0.1868 ± 0.5069
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 85.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1

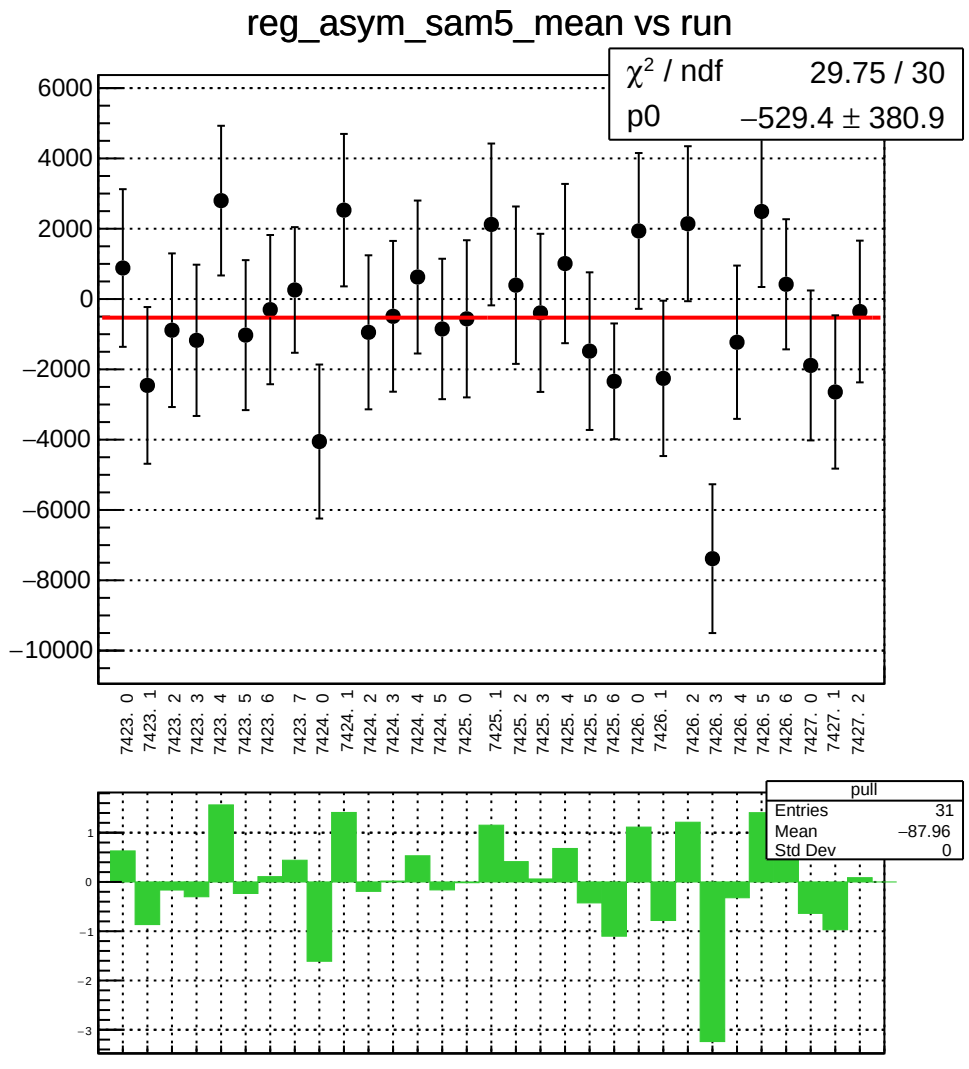

pull1D
Entries 31
Mean 0.002879
Std Dev 0.7897
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

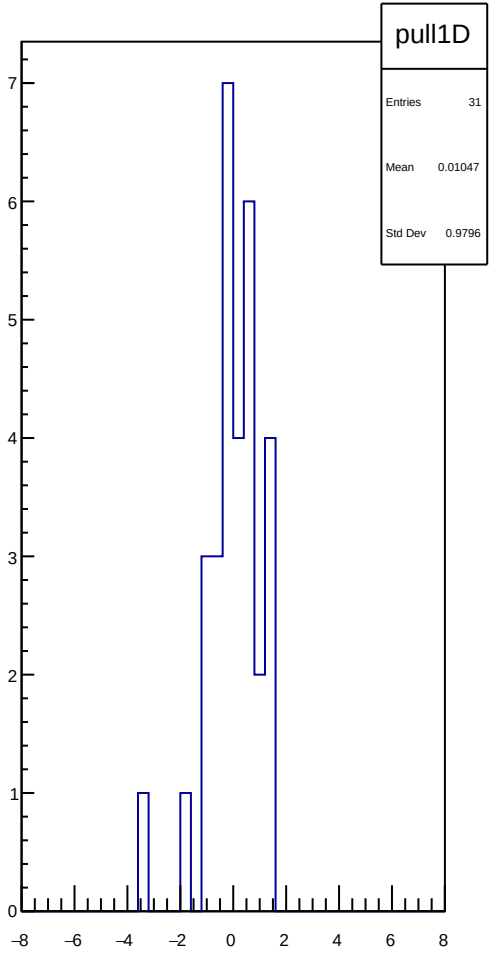

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.074e+04 / 30
p0 274.1 ± 0.3584
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

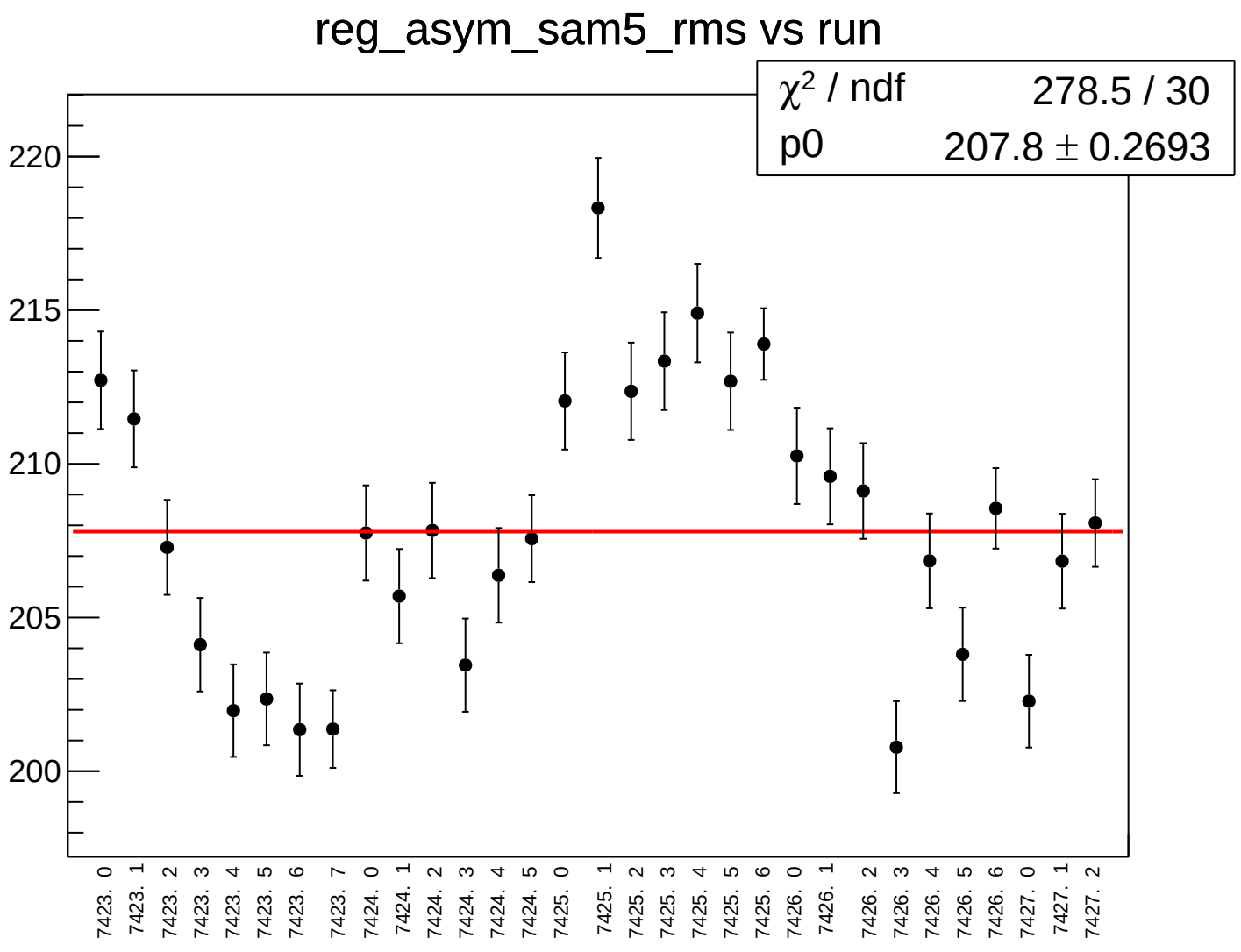

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.41 / 30
p0 5.321e−14 ± 6.417e−14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.11
Std Dev 10.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

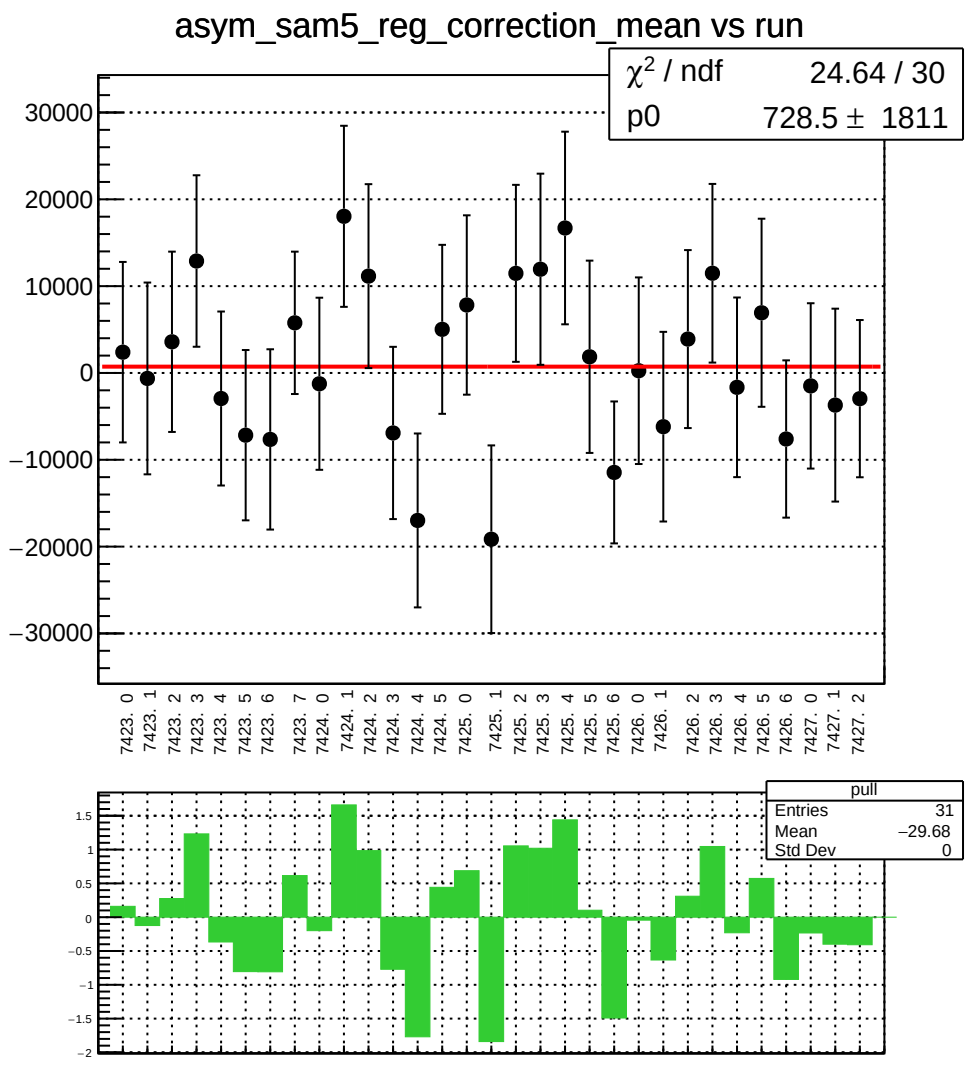

pull1D
Entries 31
Mean 0.1099
Std Dev 1.108
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

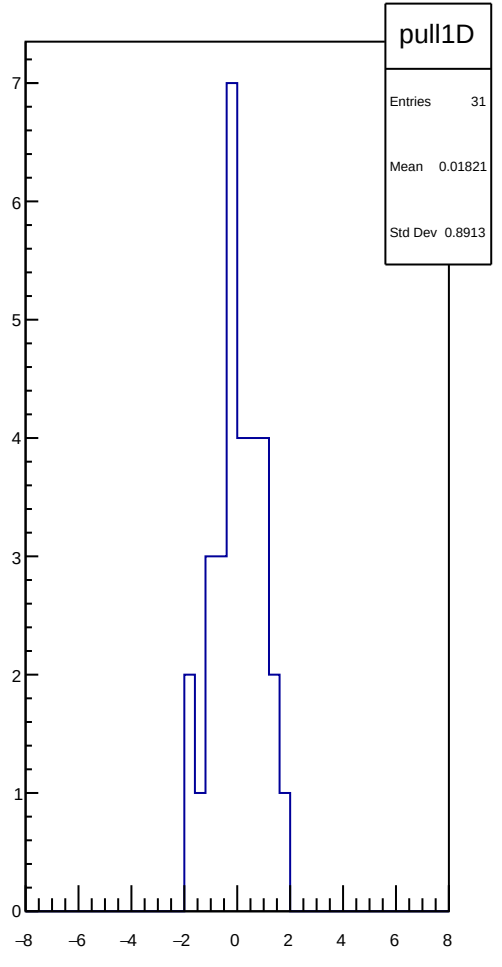

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.667e+04 / 30
p0 3.299e−11 ± 4.537e−14
90
80
70
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

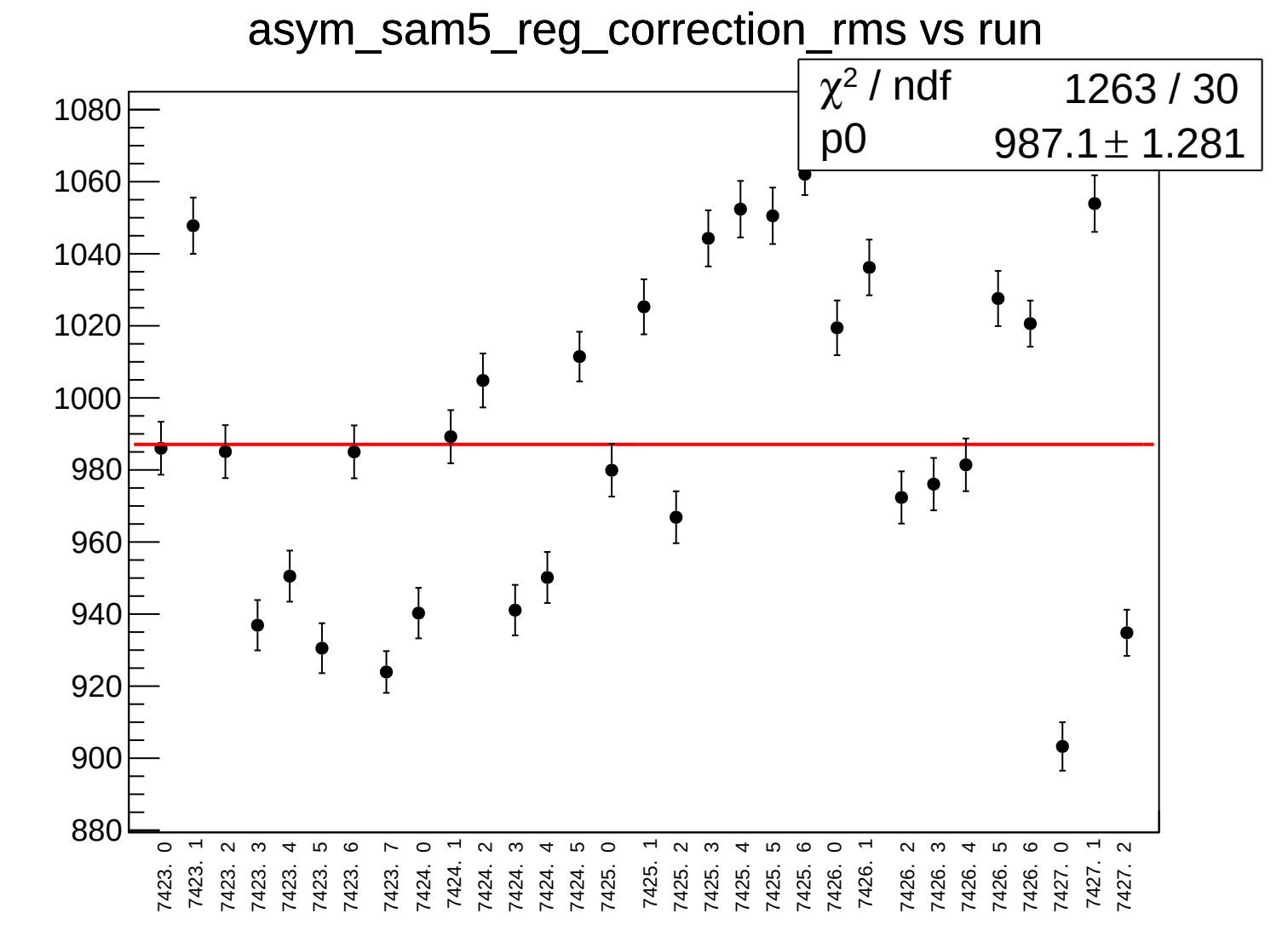

reg_asym_sam5_mean vs run
χ² / ndf 29.75 / 30
p0 −529.4 ± 380.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −87.96
Std Dev 0
1
0
−1
−2
−3

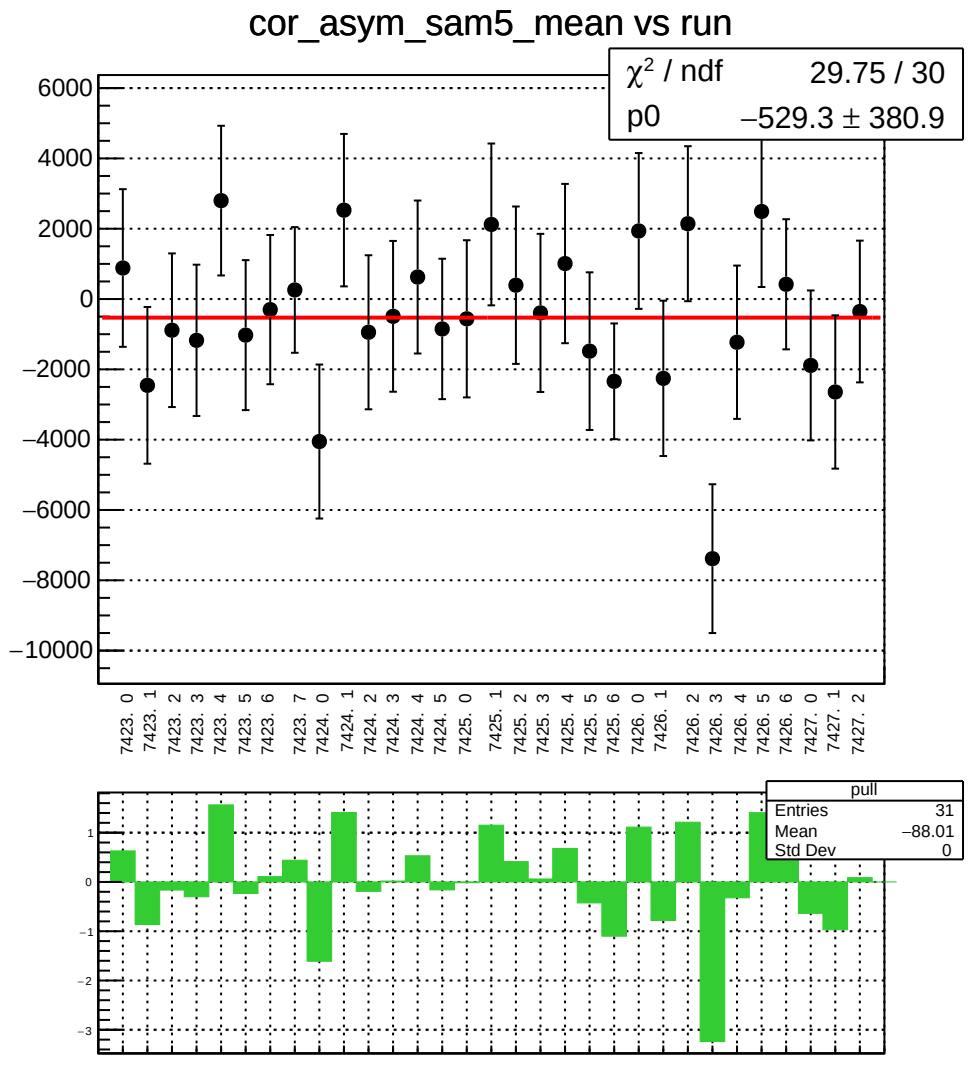

pull1D
Entries 31
Mean 0.01047
Std Dev 0.9796
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

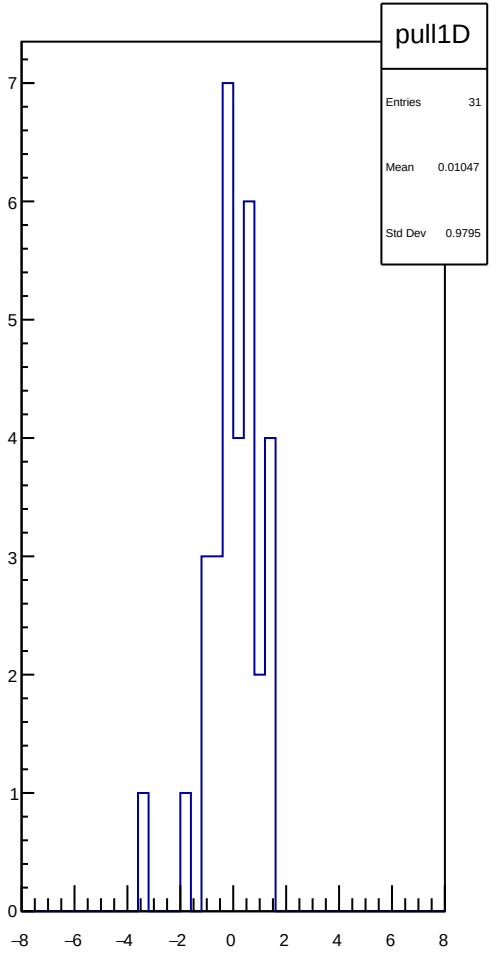

reg_asym_sam5_rms vs run
χ² / ndf 278.5 / 30
p0 207.8 ± 0.2693
220
215
210
205
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

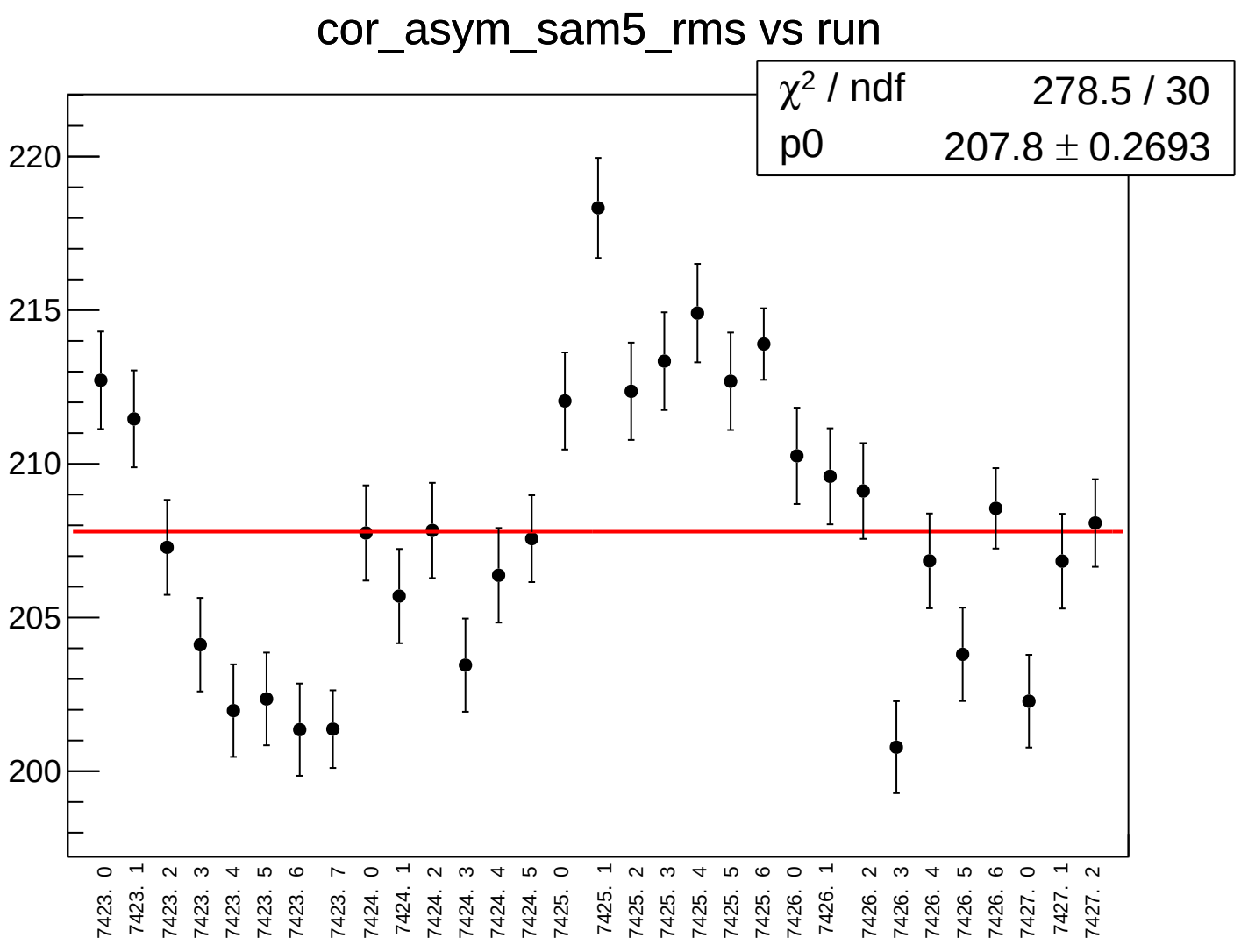

asym_sam5_reg_correction_mean vs run
χ² / ndf 24.64 / 30
p0 728.5 ± 1811
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −29.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

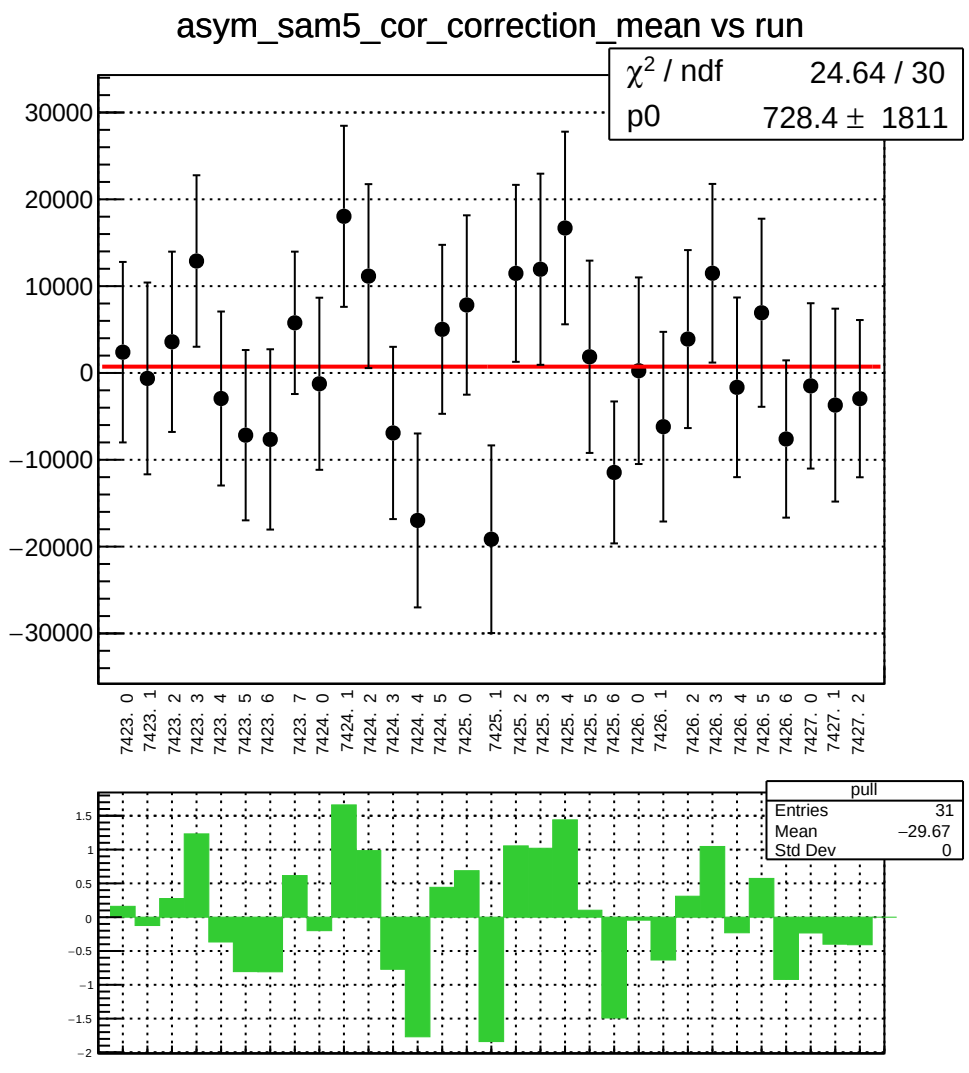

pull1D
Entries 31
Mean 0.01821
Std Dev 0.8913
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

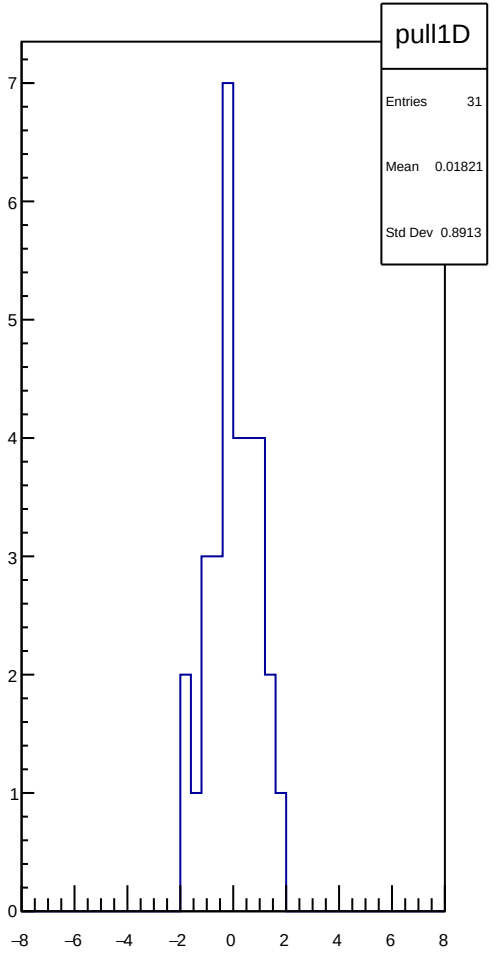

asym_sam5_reg_correction_rms vs run
χ² / ndf 1263 / 30
p0 987.1 ± 1.281
1080
1060
1040
1020
1000
980
960
940
920
900
880
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

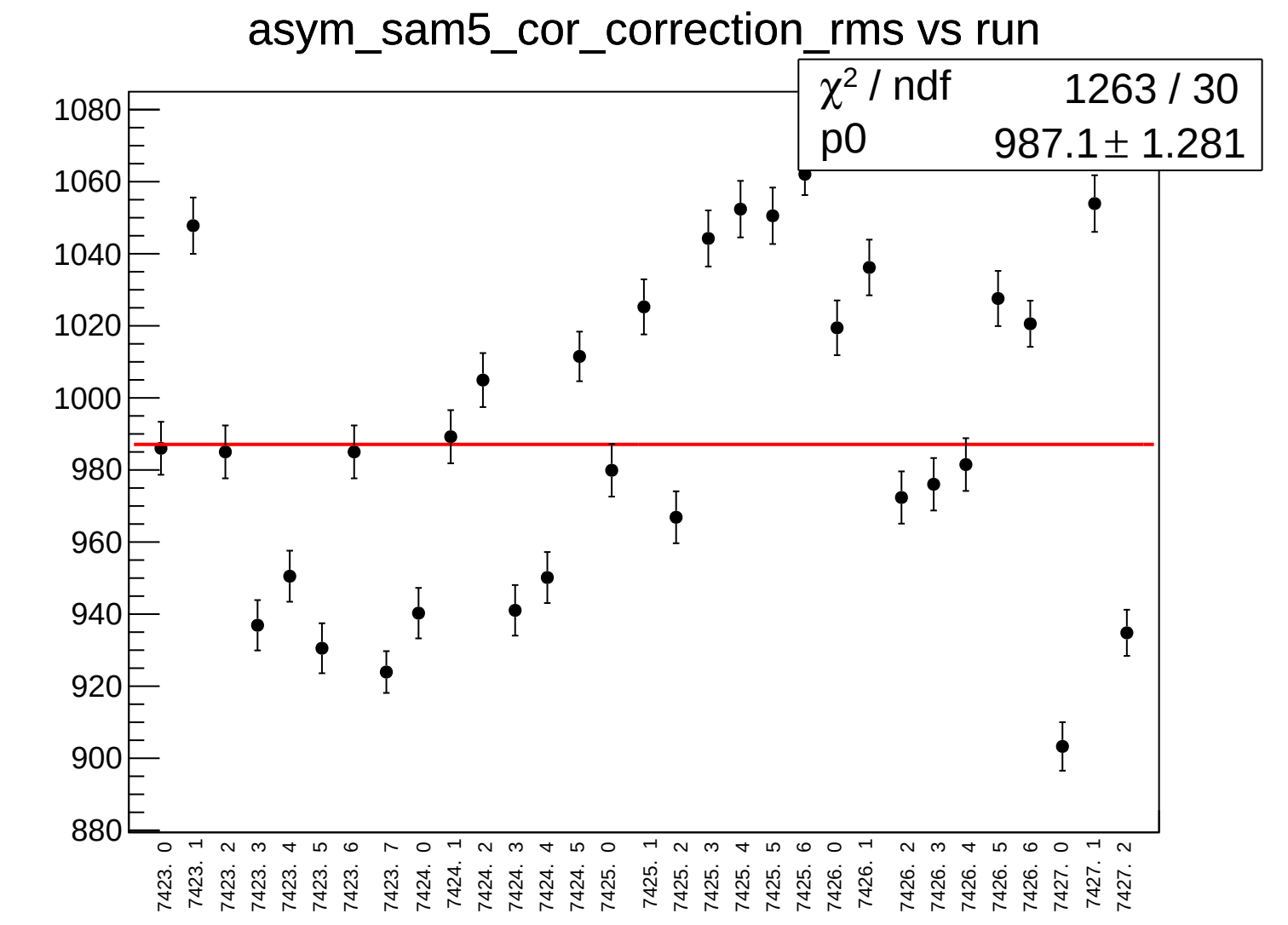

cor_asym_sam5_mean vs run
χ² / ndf 29.75 / 30
p0 −529.3 ± 380.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −88.01
Std Dev 0
1
0
−1
−2
−3

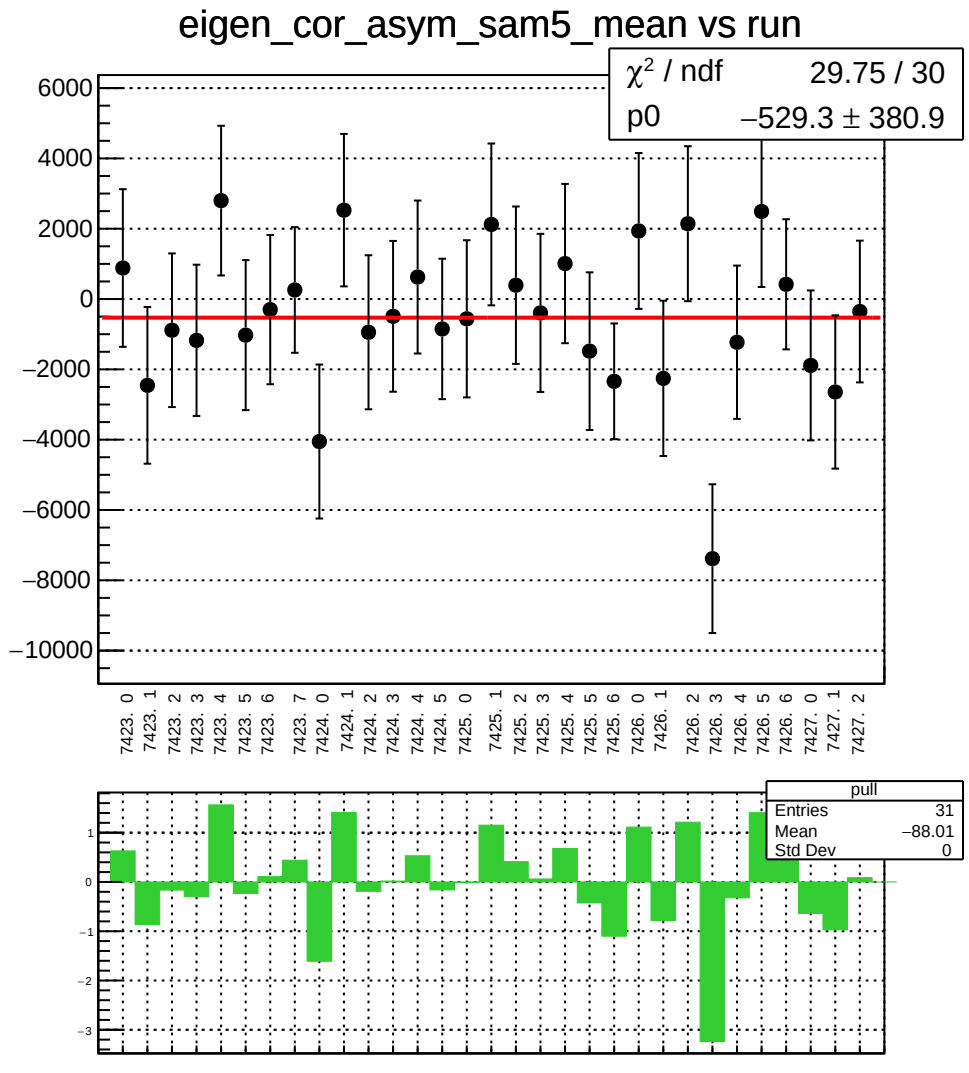

pull1D
Entries 31
Mean 0.01047
Std Dev 0.9795
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

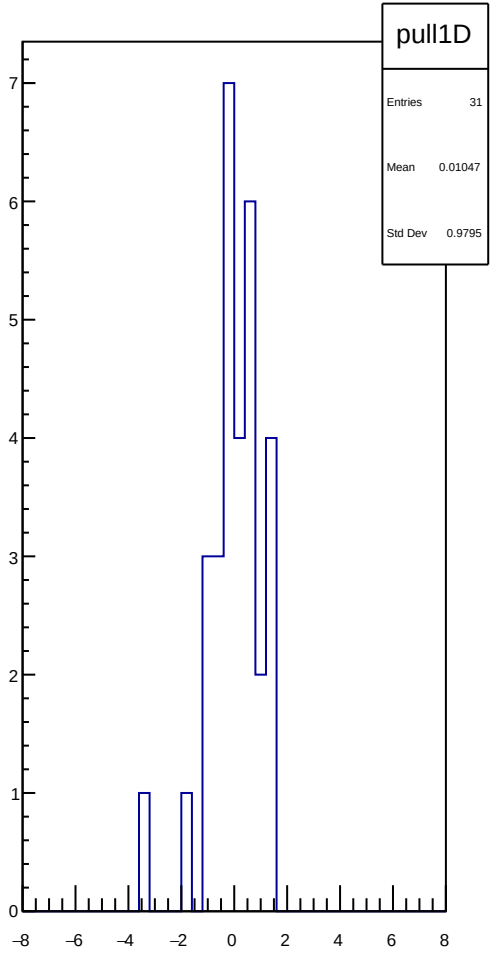

cor_asym_sam5_rms vs run
χ² / ndf 278.5 / 30
p0 207.8 ± 0.2693
220
215
210
205
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

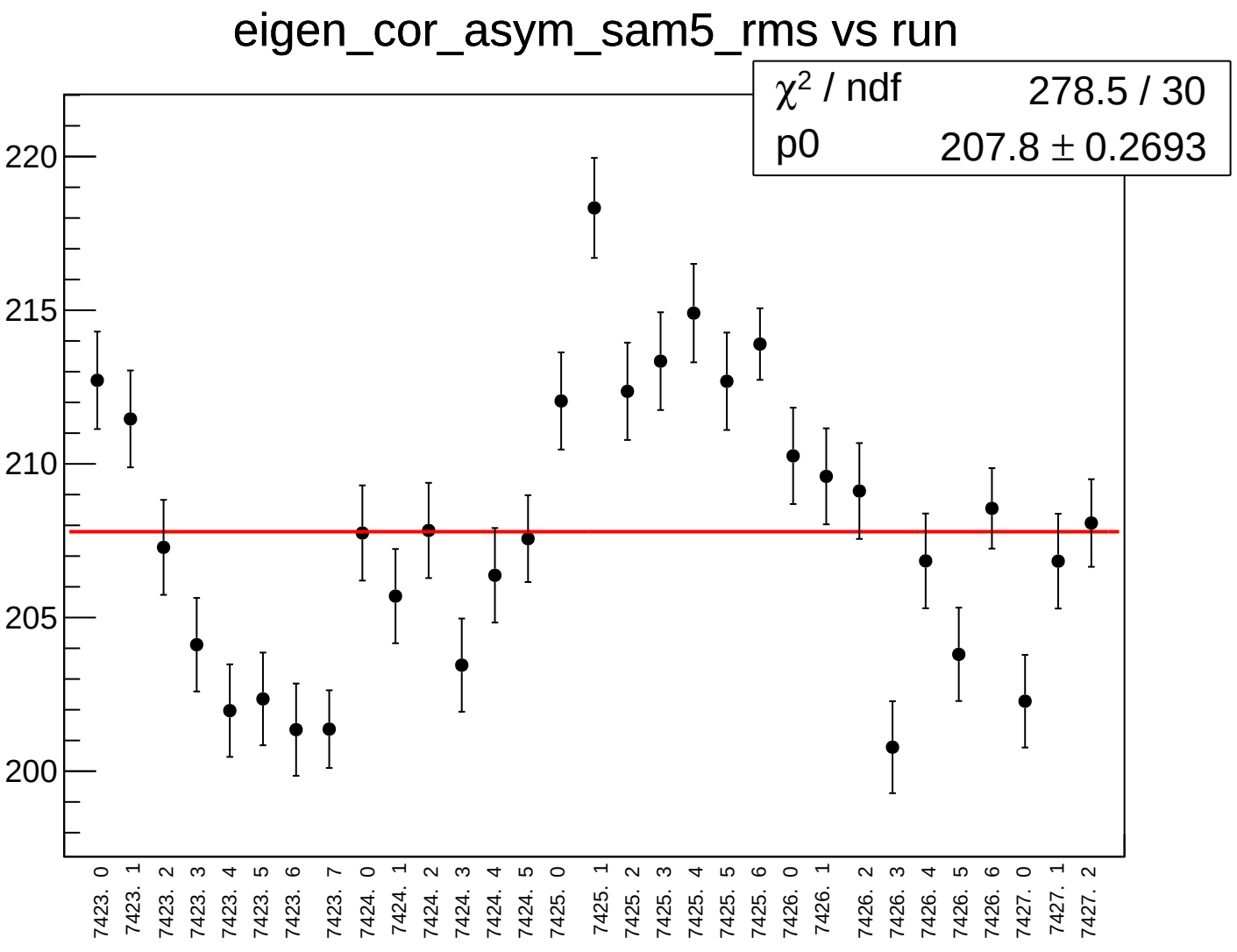

asym_sam5_cor_correction_mean vs run
χ² / ndf 24.64 / 30
p0 728.4 ± 1811
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −29.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

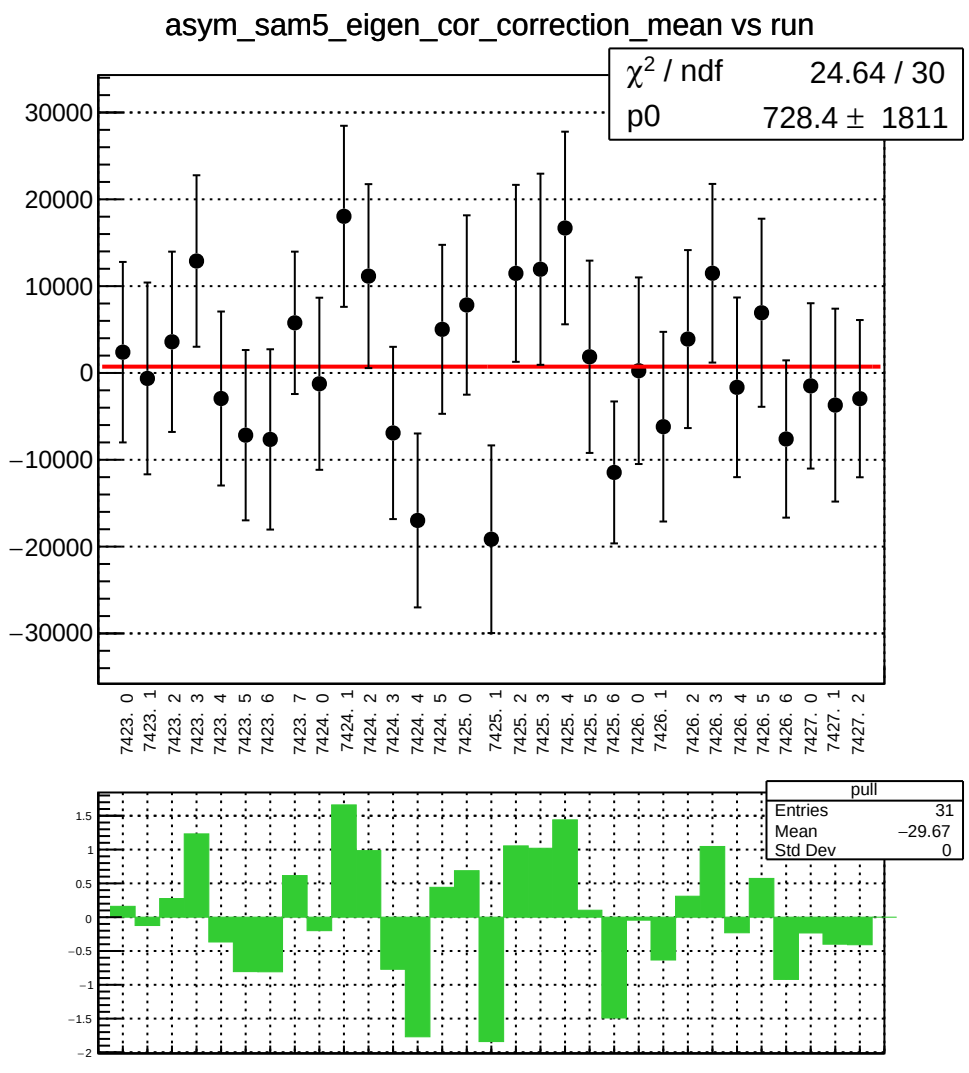

pull1D
Entries 31
Mean 0.01821
Std Dev 0.8913
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

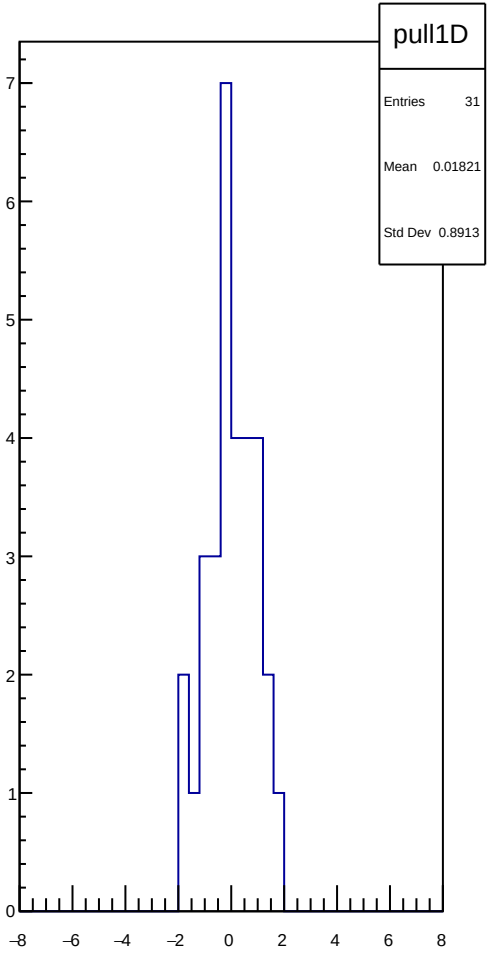

asym_sam5_cor_correction_rms vs run
χ² / ndf 1263 / 30
p0 987.1 ± 1.281
1080
1060
1040
1020
1000
980
960
940
920
900
880
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

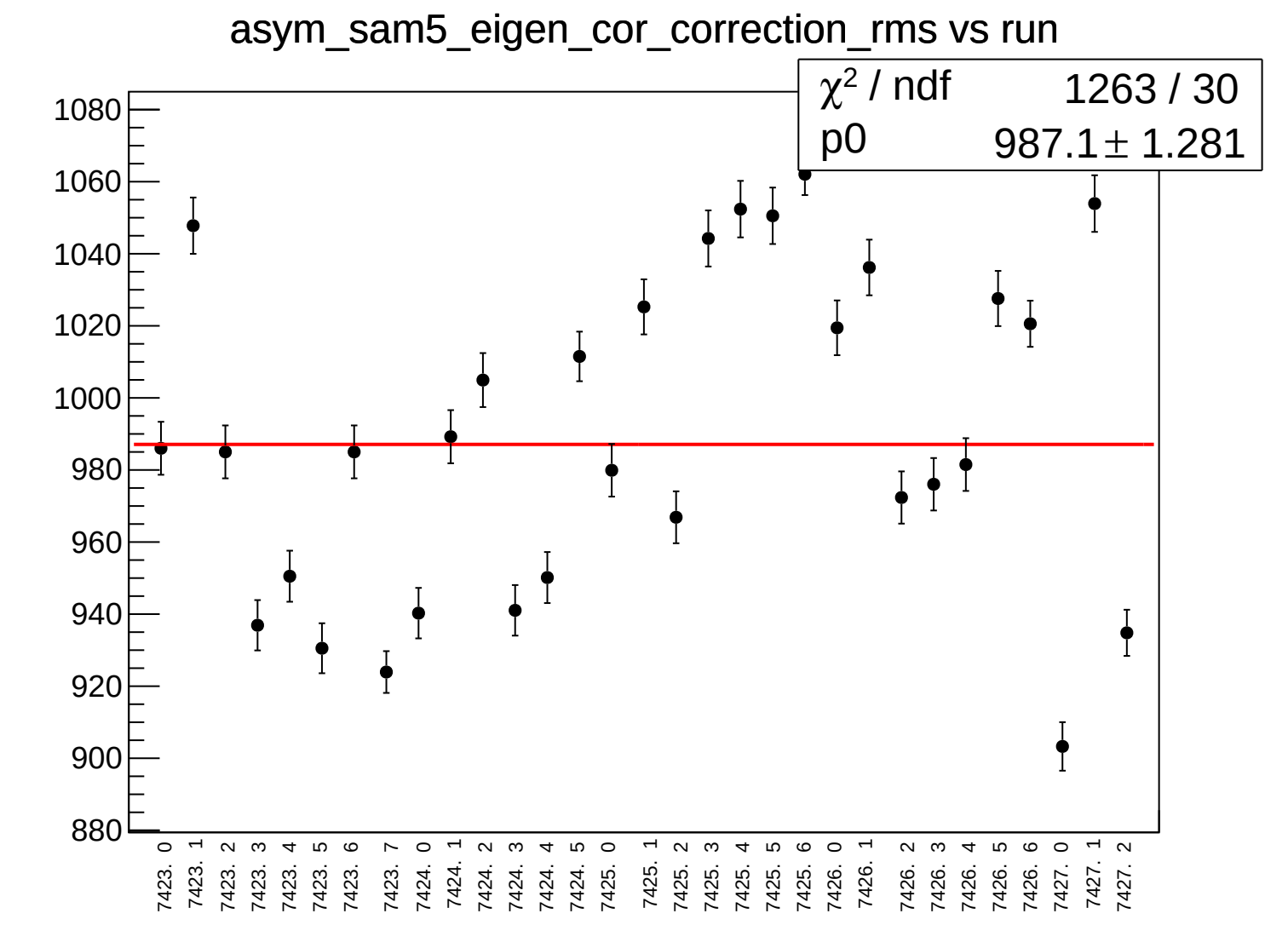

eigen_cor_asym_sam5_mean vs run
χ² / ndf 29.75 / 30
p0 −529.3 ± 380.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −88.01
Std Dev 0

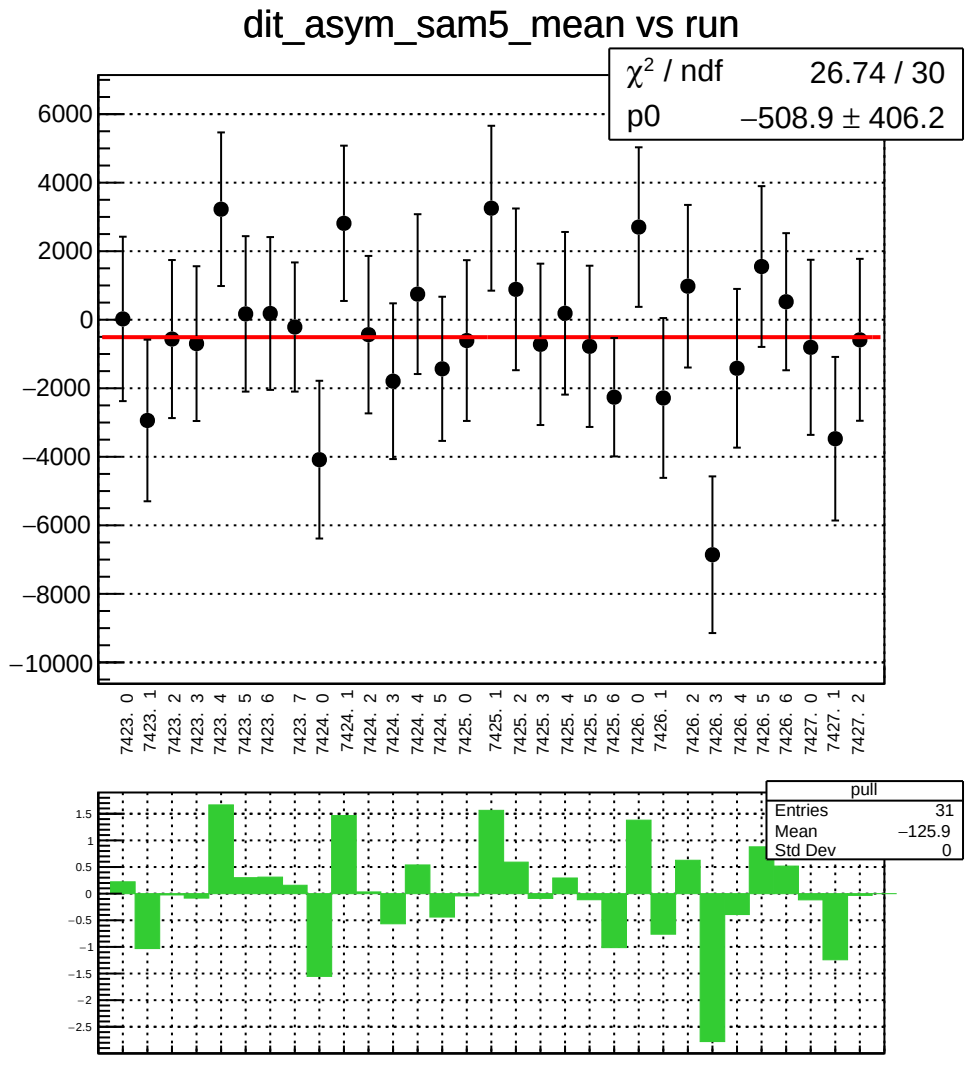

pull1D
Entries 31
Mean 0.01047
Std Dev 0.9795

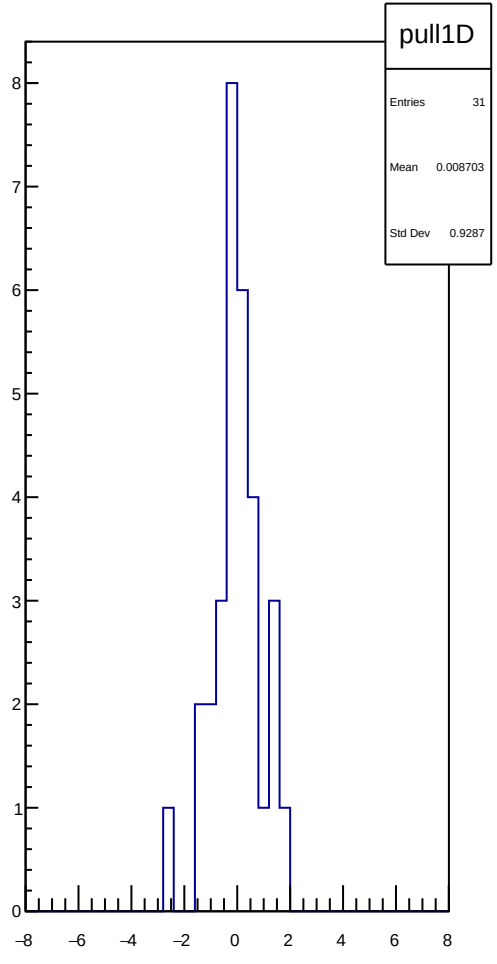

eigen_cor_asym_sam5_rms vs run
χ² / ndf 278.5 / 30
p0 207.8 ± 0.2693
220
215
210
205
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

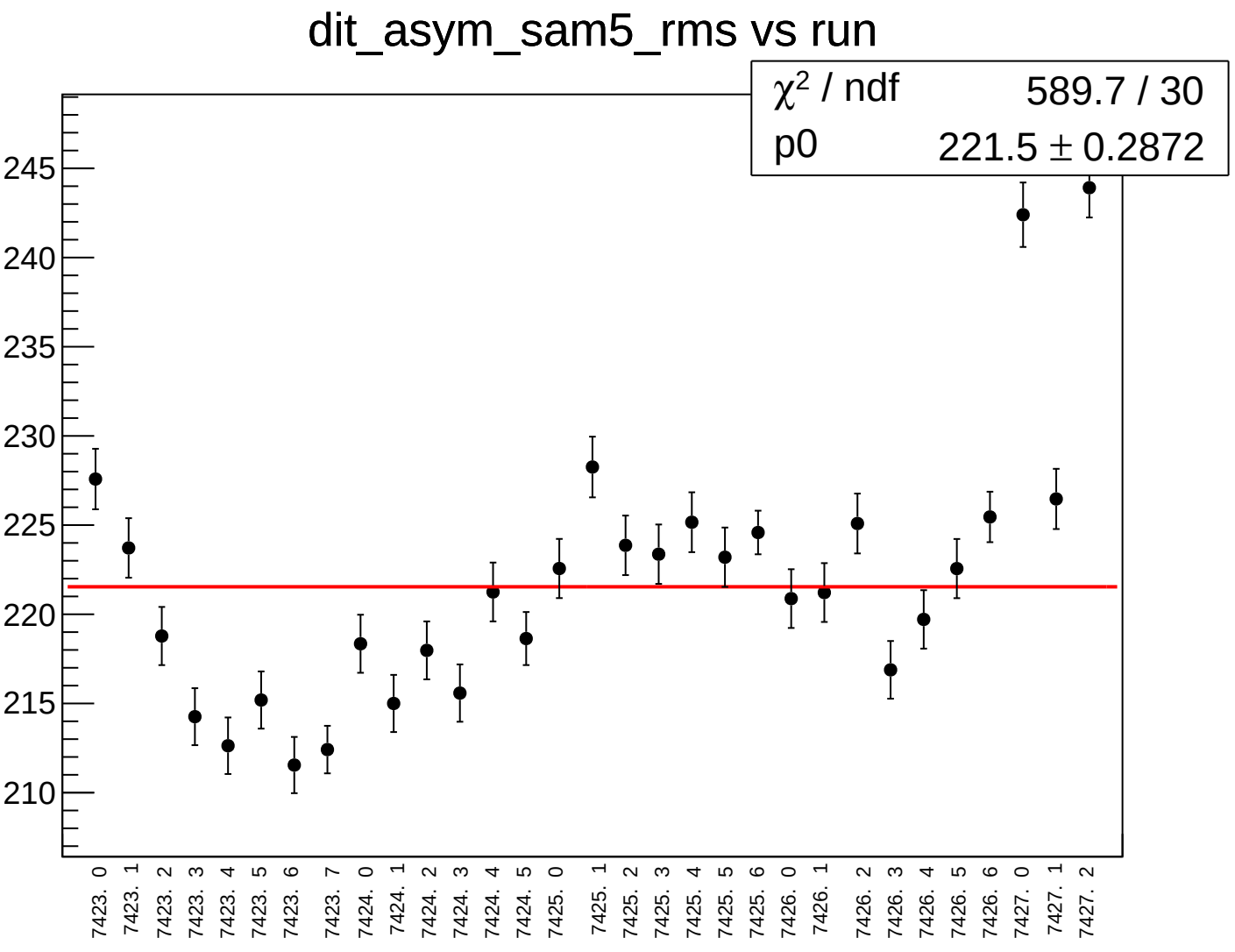

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 24.64 / 30
p0 728.4 ± 1811
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −29.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

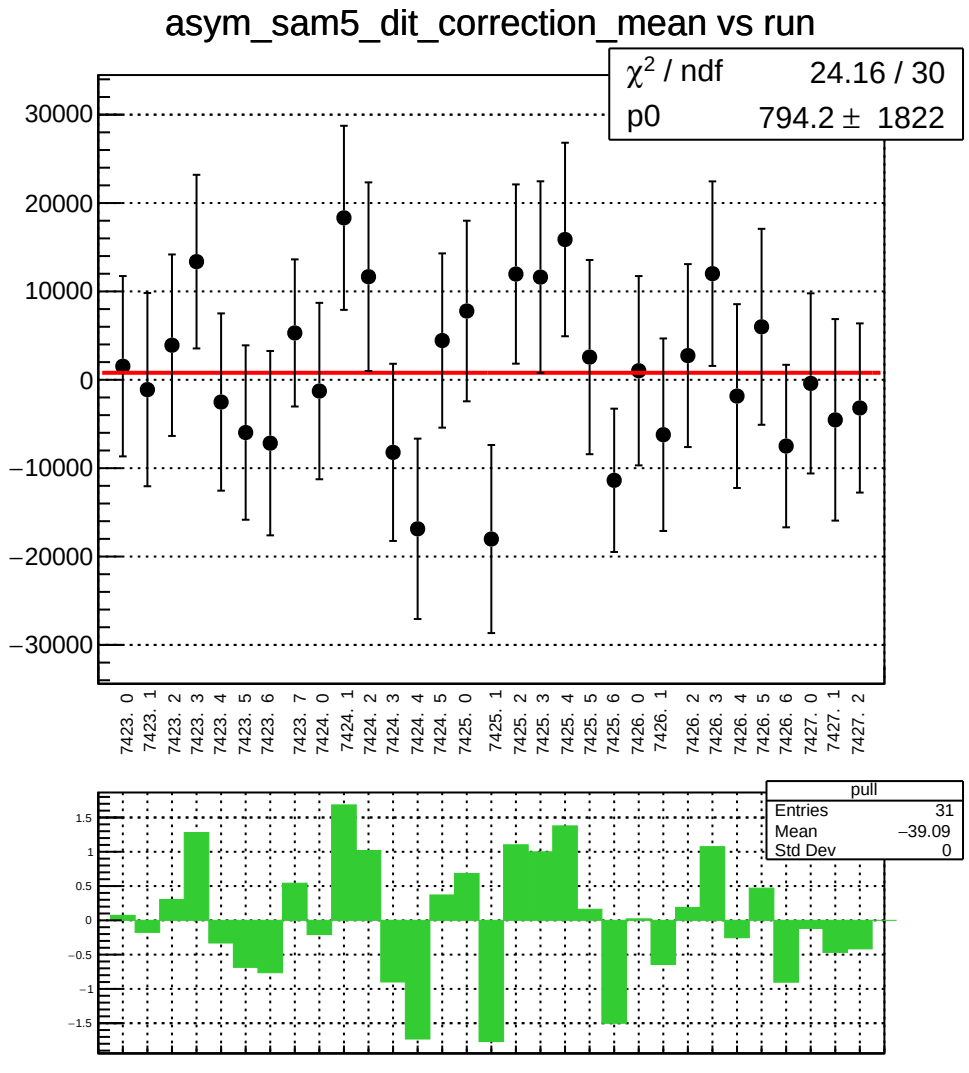

pull1D
Entries 31
Mean 0.01821
Std Dev 0.8913
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

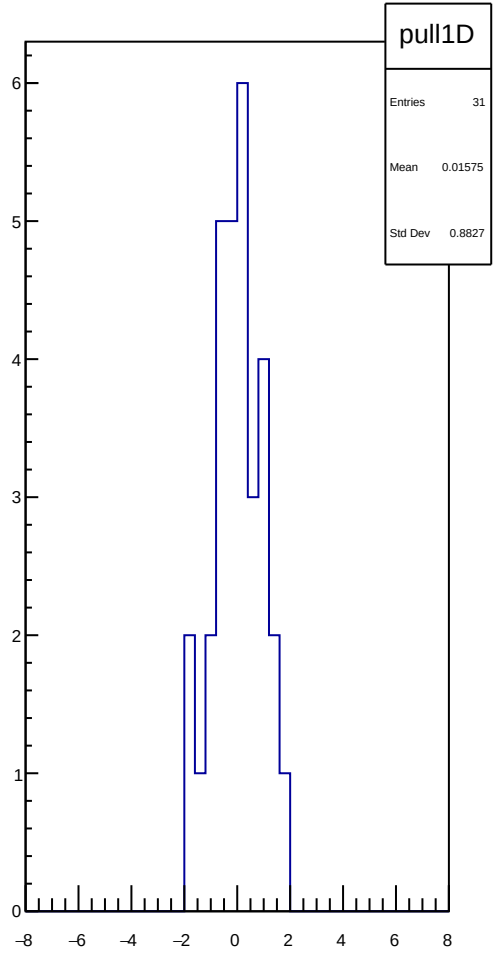

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1263 / 30
p0 987.1 ± 1.281
1080
1060
1040
1020
1000
980
960
940
920
900
880
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

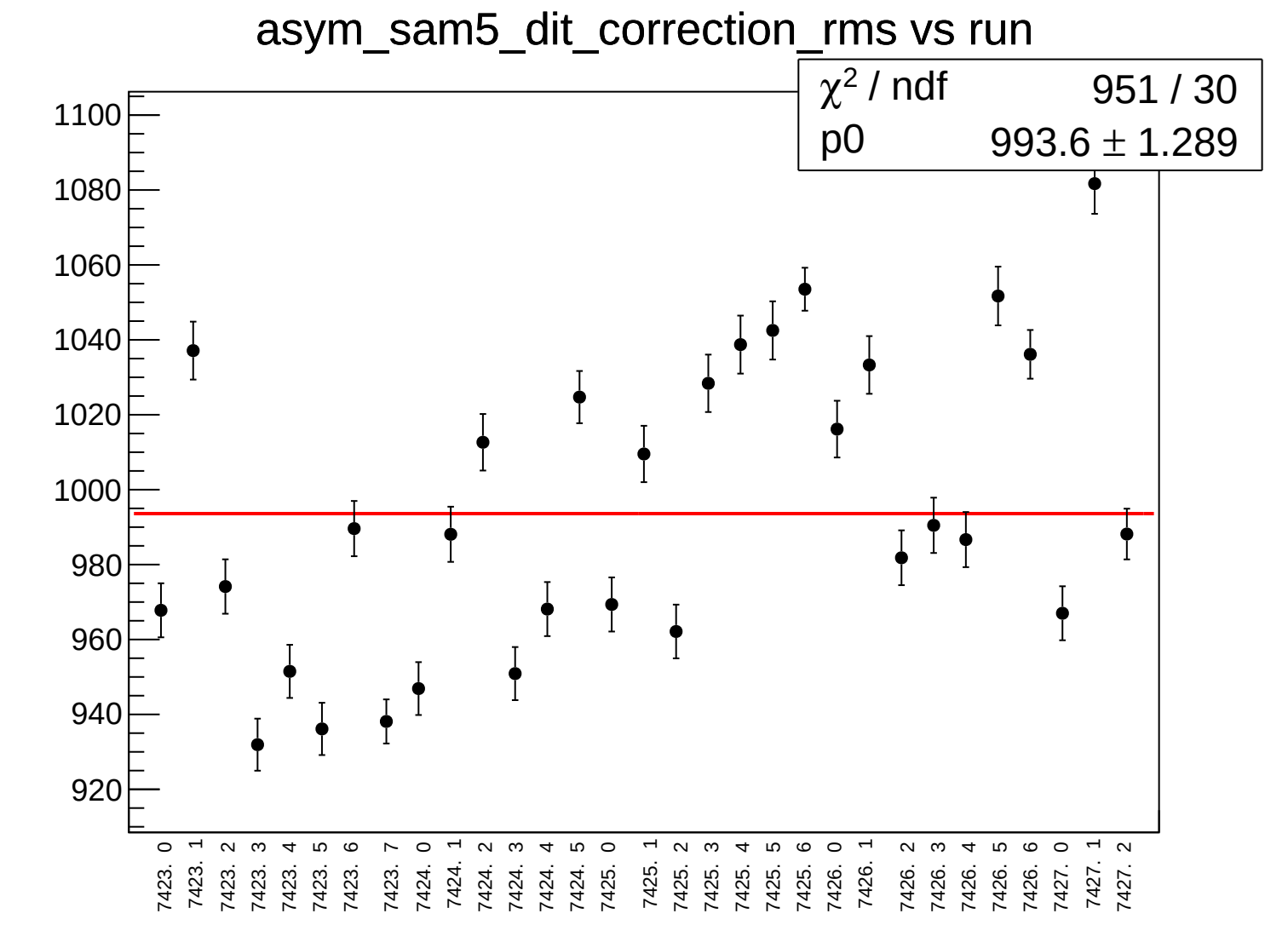

dit_asym_sam5_mean vs run
χ² / ndf 26.74 / 30
p0 −508.9 ± 406.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −125.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

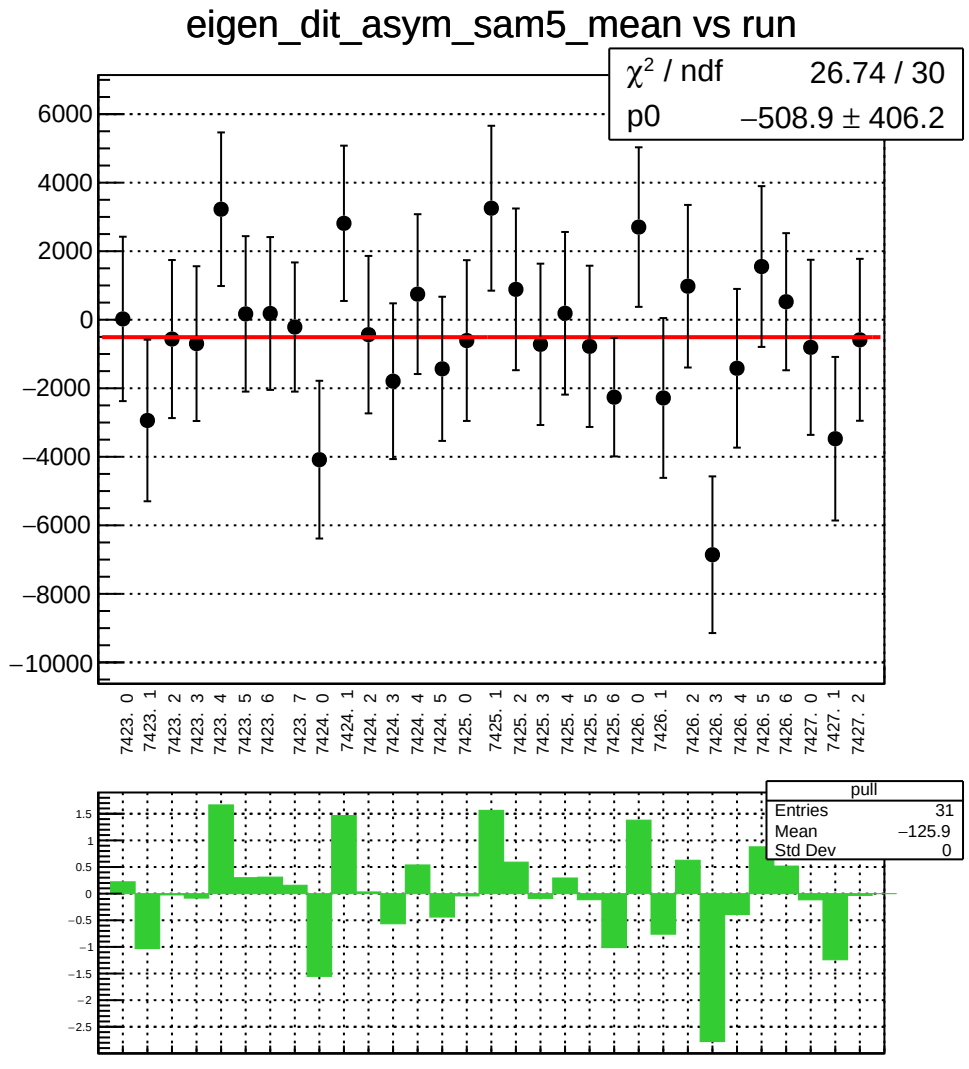

pull1D
Entries 31
Mean 0.008703
Std Dev 0.9287
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

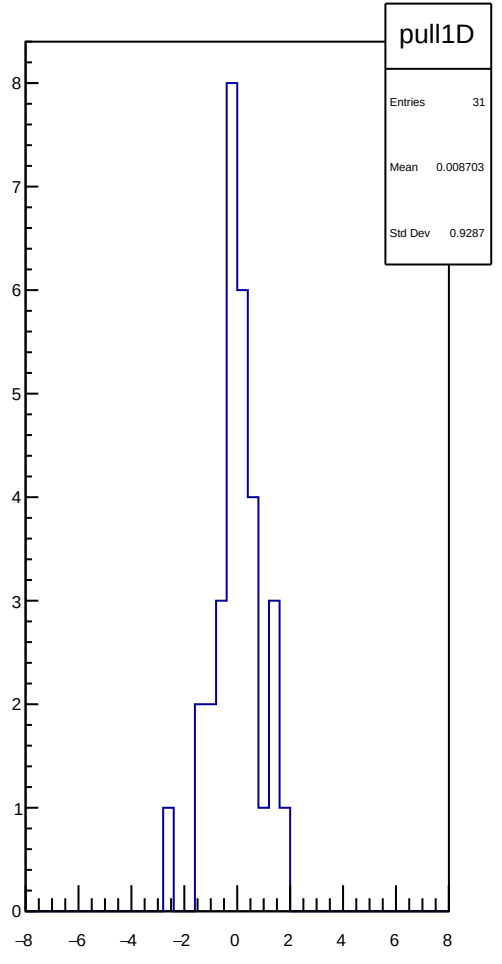

dit_asym_sam5_rms vs run
χ² / ndf 589.7 / 30
p0 221.5 ± 0.2872
245
240
235
230
225
220
215
210
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

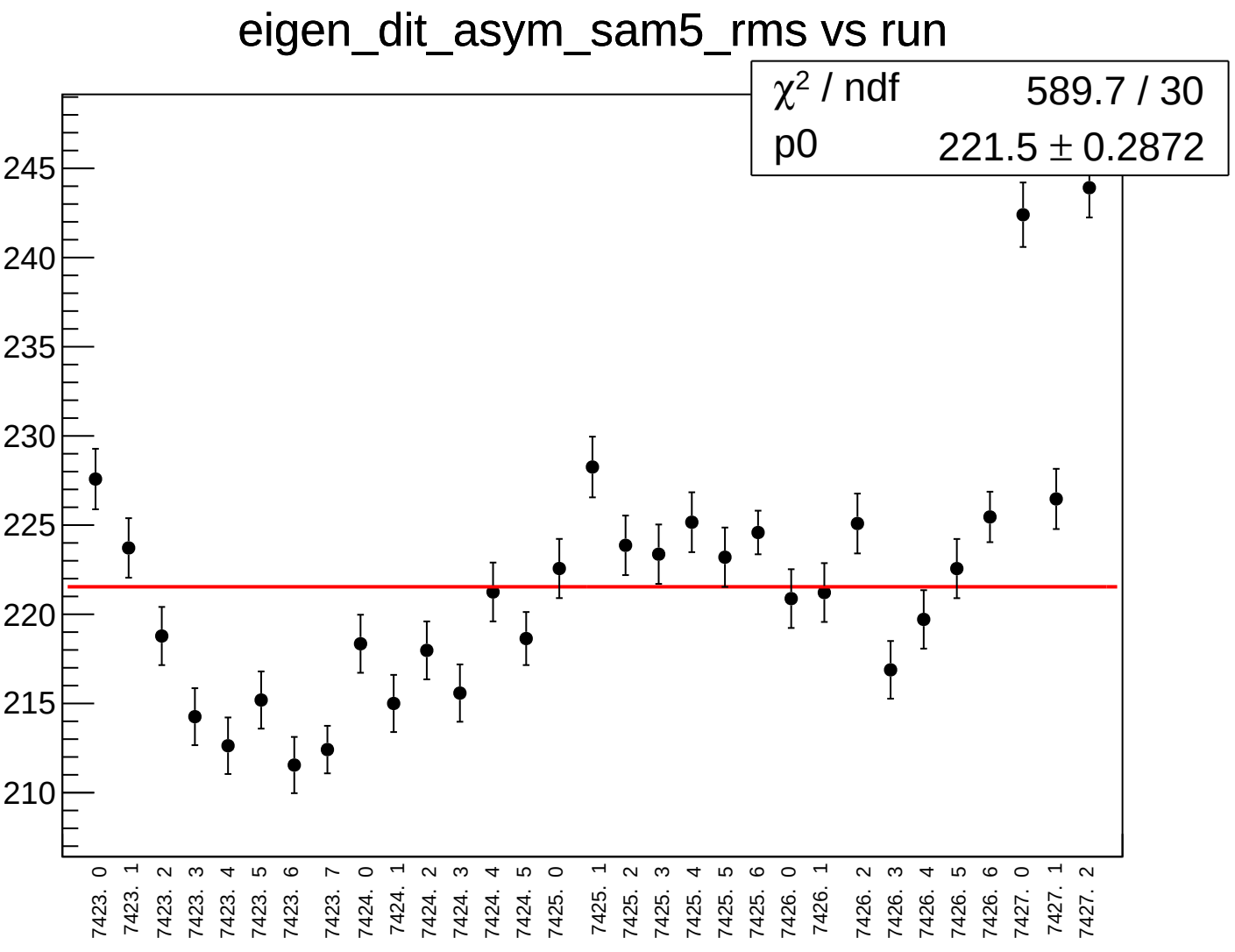

asym_sam5_dit_correction_mean vs run
χ² / ndf 24.16 / 30
p0 794.2 ± 1822
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −39.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

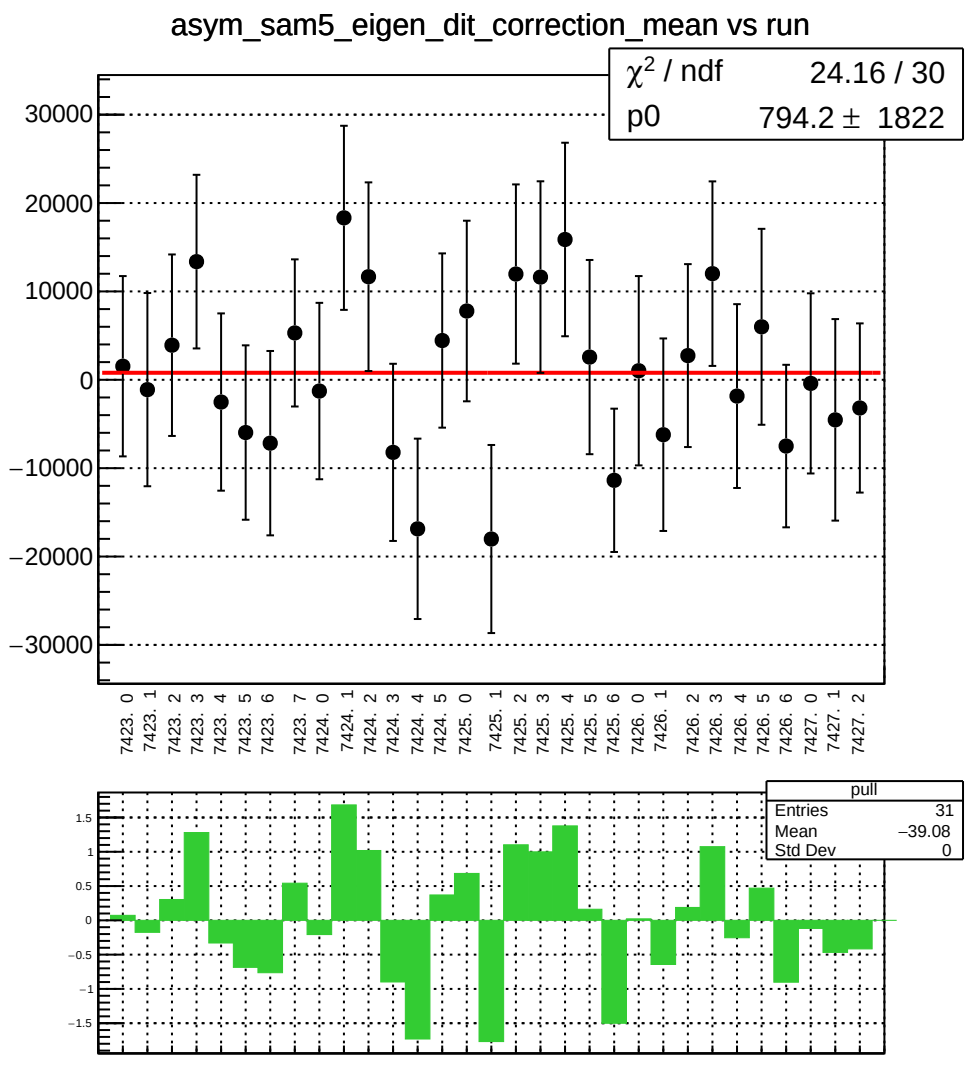

pull1D
Entries 31
Mean 0.01575
Std Dev 0.8827
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

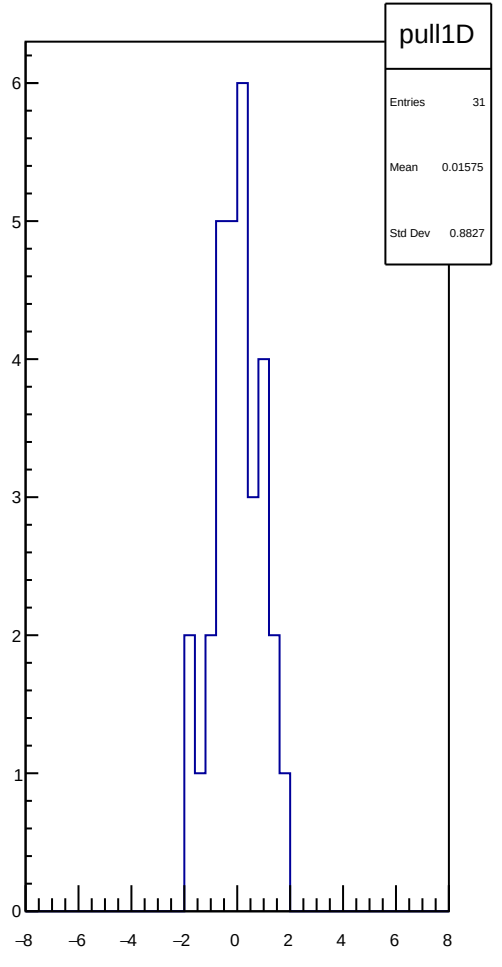

asym_sam5_dit_correction_rms vs run
χ² / ndf 951 / 30
p0 993.6 ± 1.289
1100
1080
1060
1040
1020
1000
980
960
940
920
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

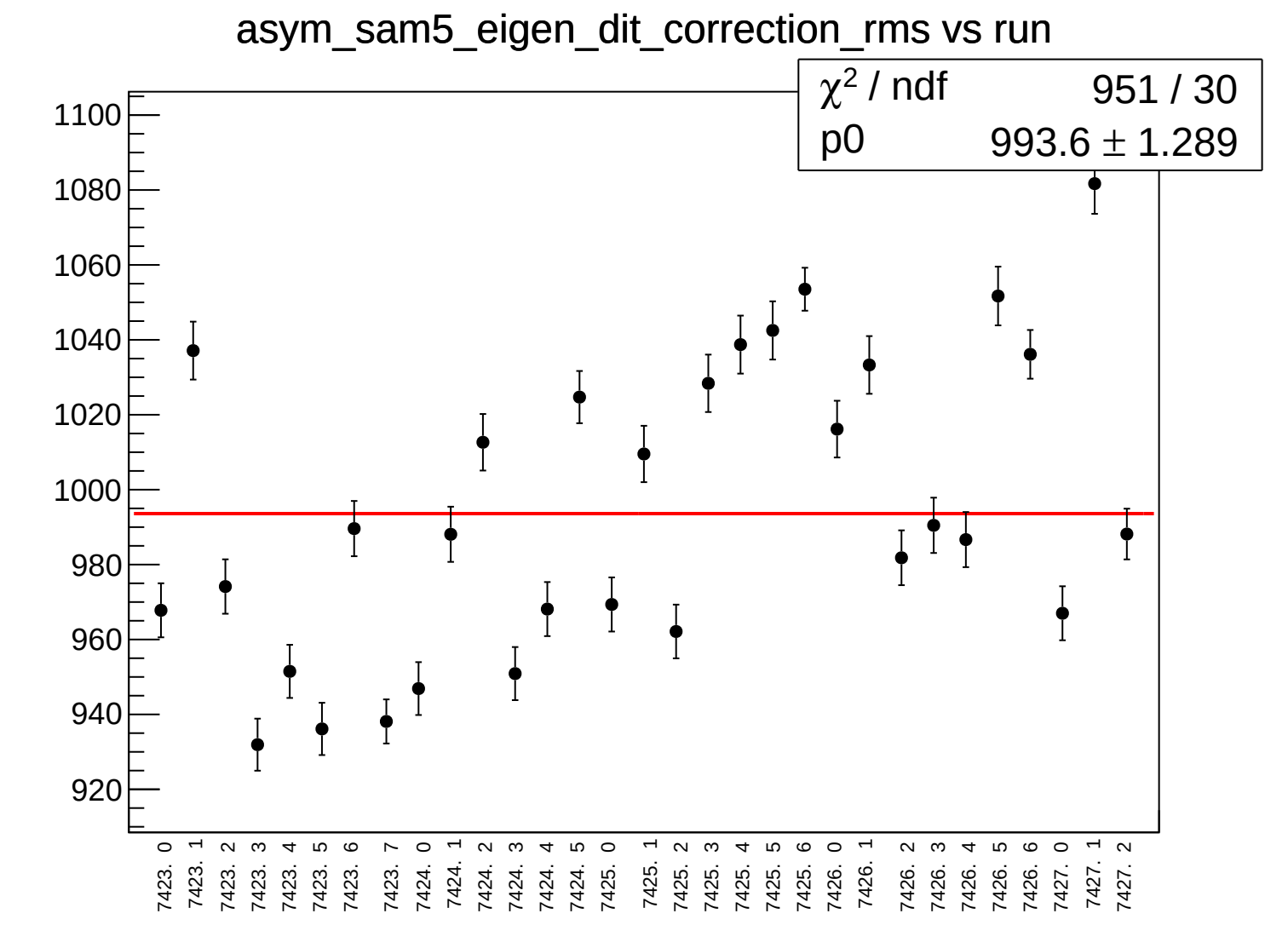

eigen_dit_asym_sam5_mean vs run
χ² / ndf 26.74 / 30
p0 −508.9 ± 406.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −125.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

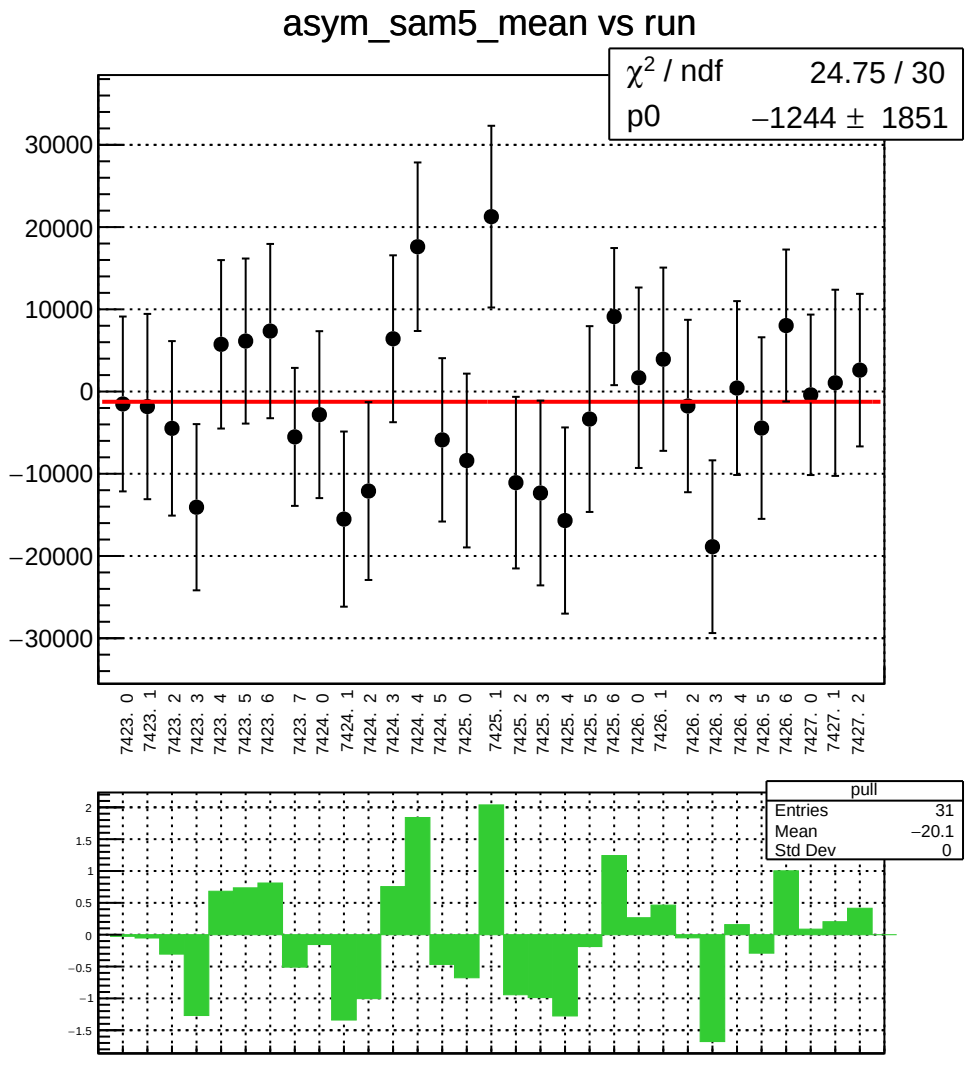

pull1D
Entries 31
Mean 0.008703
Std Dev 0.9287
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

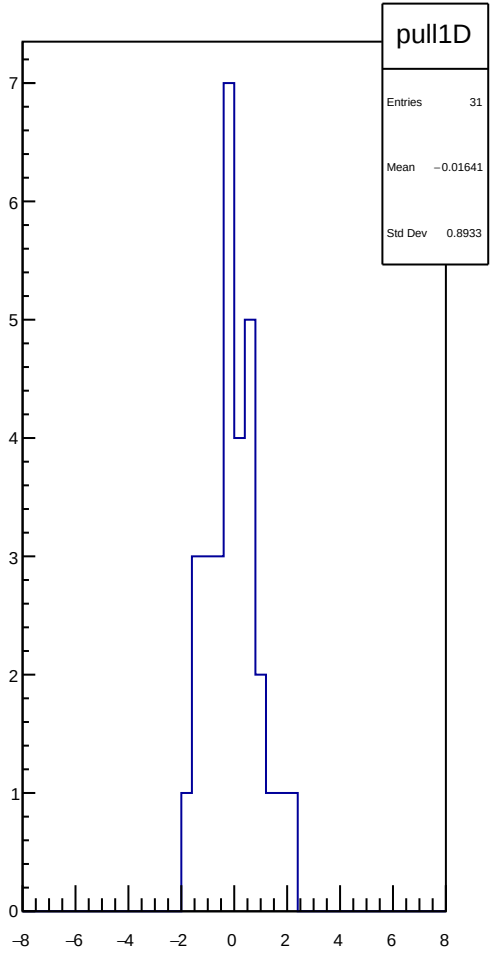

eigen_dit_asym_sam5_rms vs run
χ² / ndf 589.7 / 30
p0 221.5 ± 0.2872
245
240
235
230
225
220
215
210
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

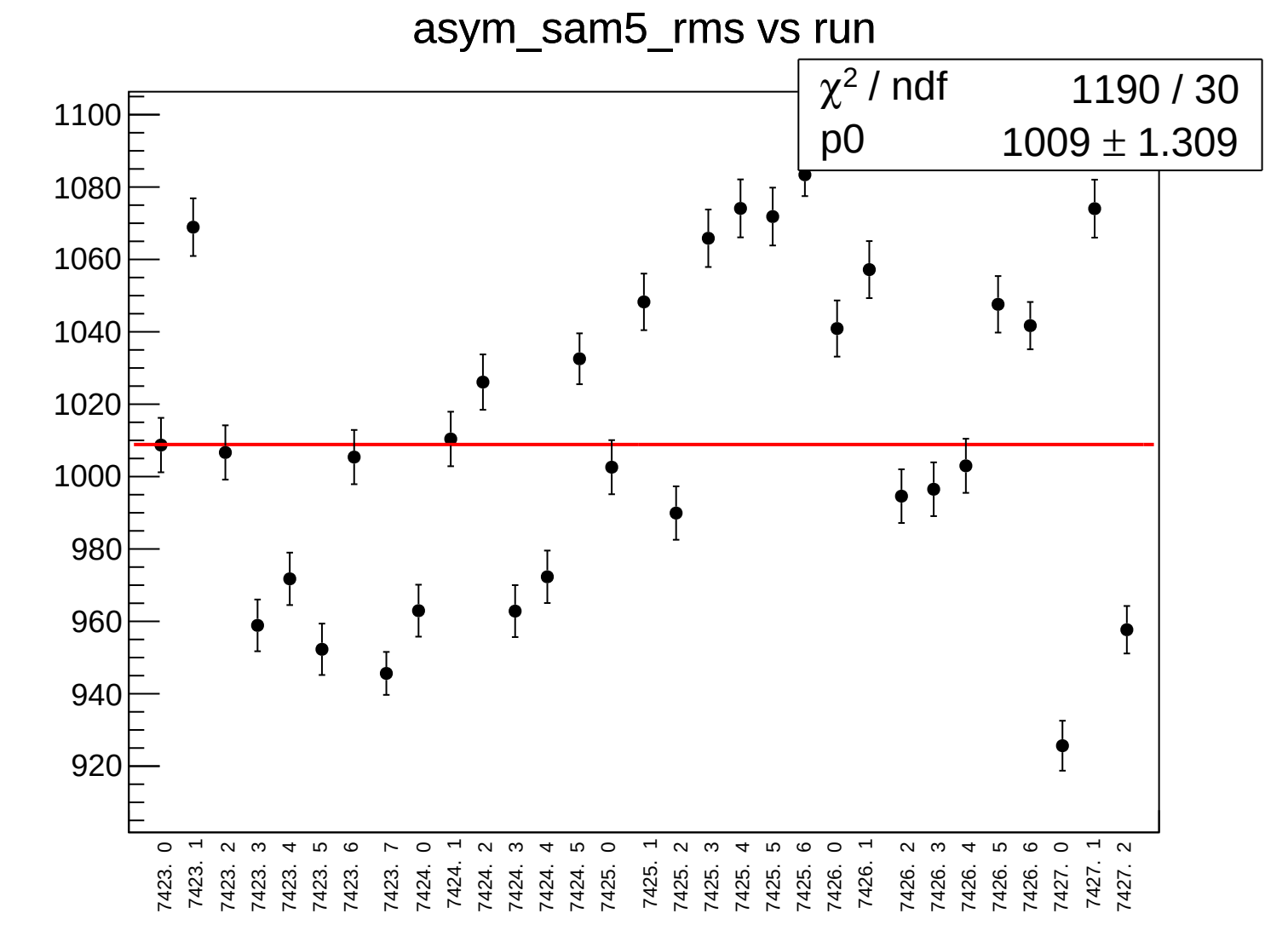

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 24.16 / 30
p0 794.2 ± 1822
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −39.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

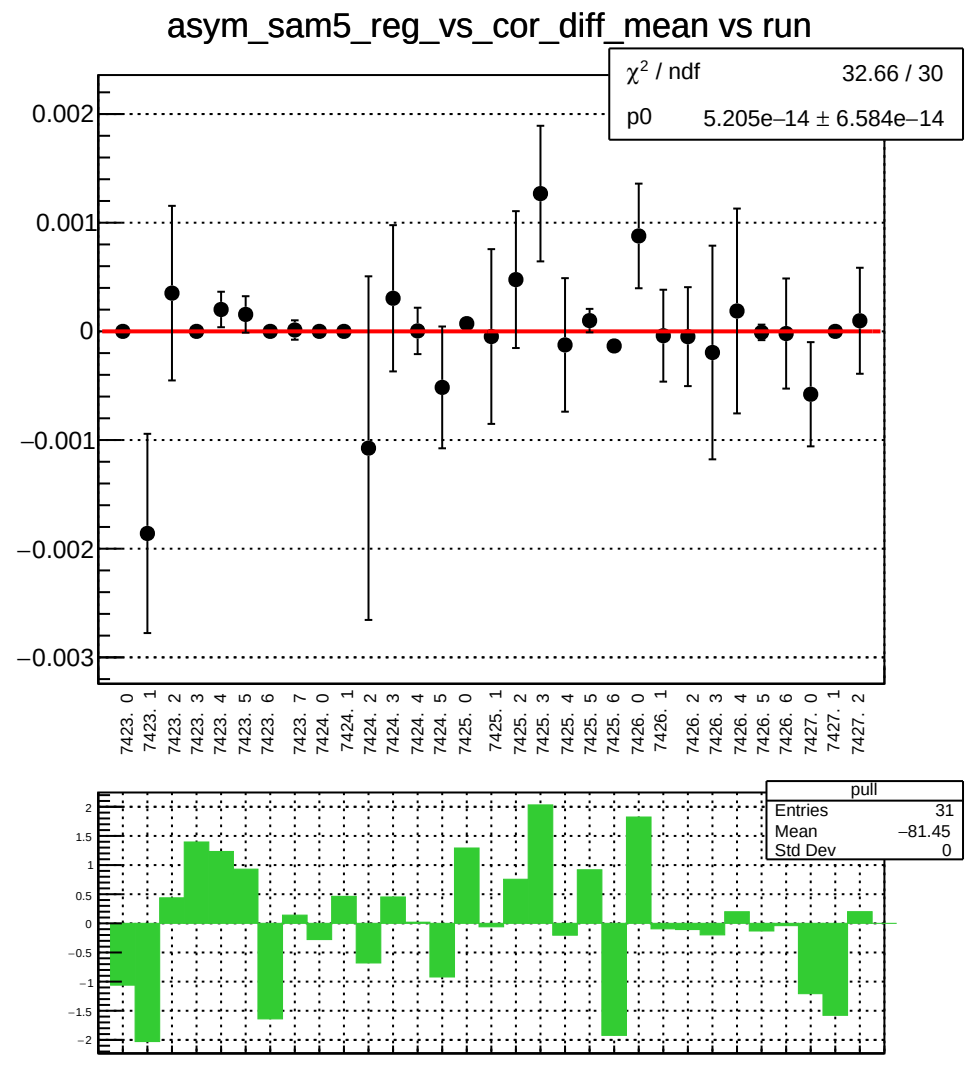

pull1D
Entries 31
Mean 0.01575
Std Dev 0.8827
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

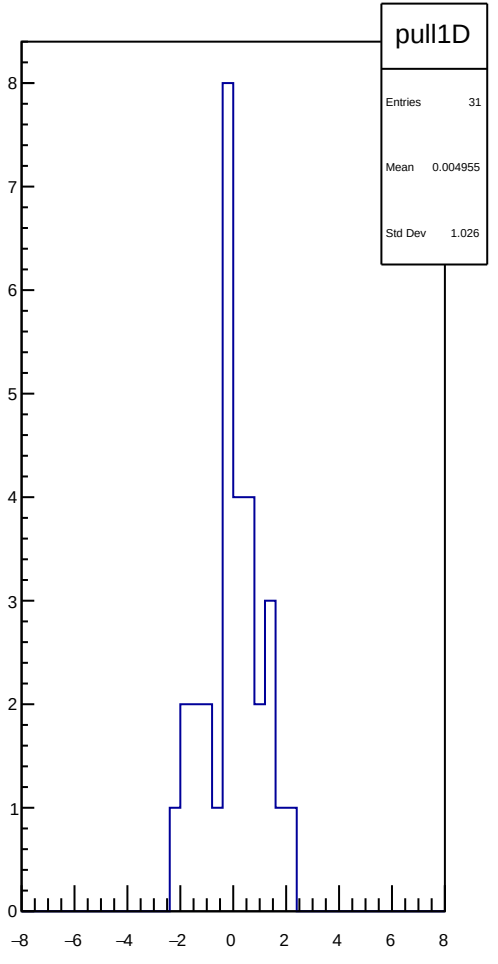

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 951 / 30
p0 993.6 ± 1.289
1100
1080
1060
1040
1020
1000
980
960
940
920
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

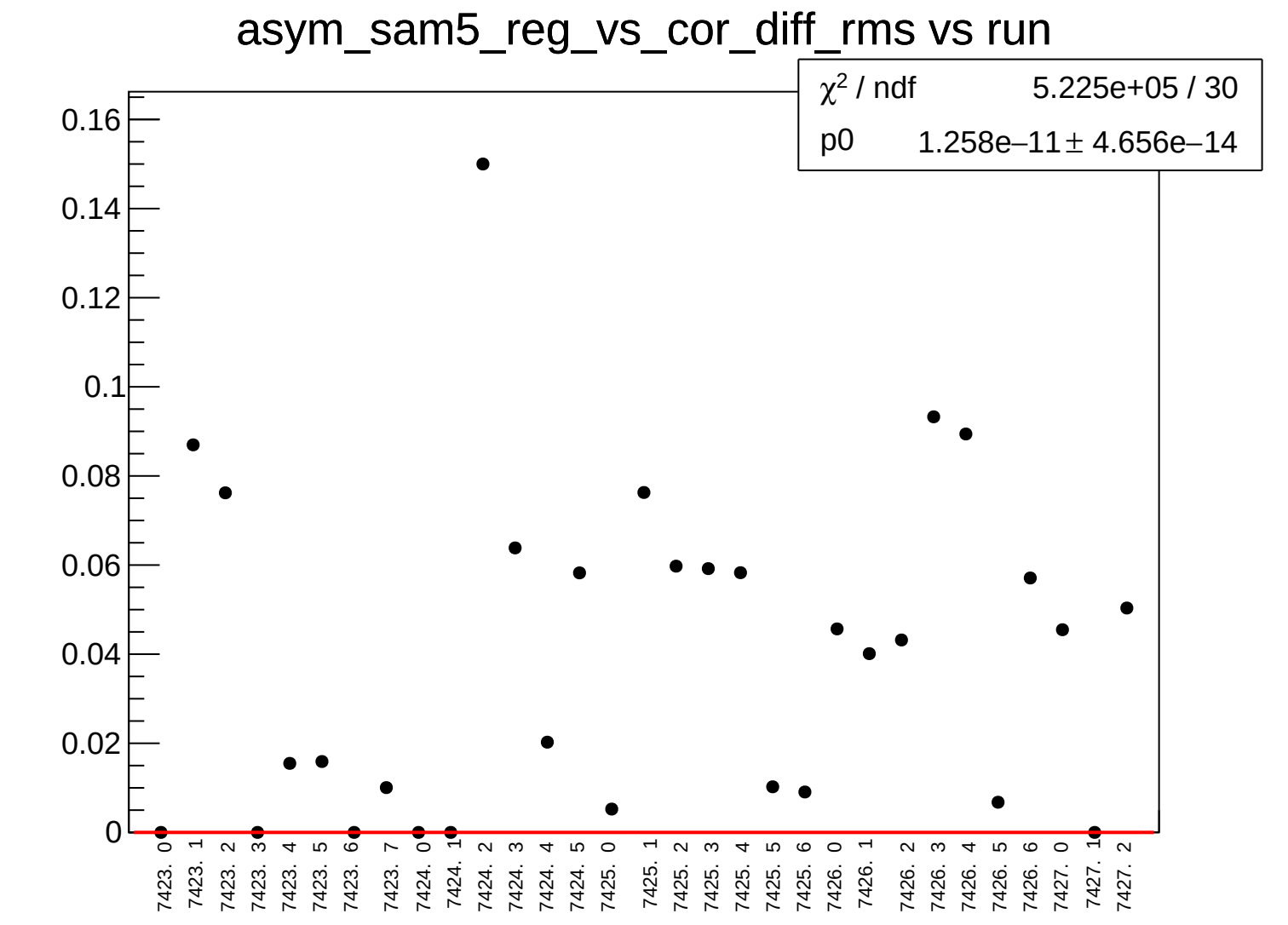

asym_sam5_mean vs run
χ² / ndf 24.75 / 30
p0 −1244 ± 1851
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −20.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

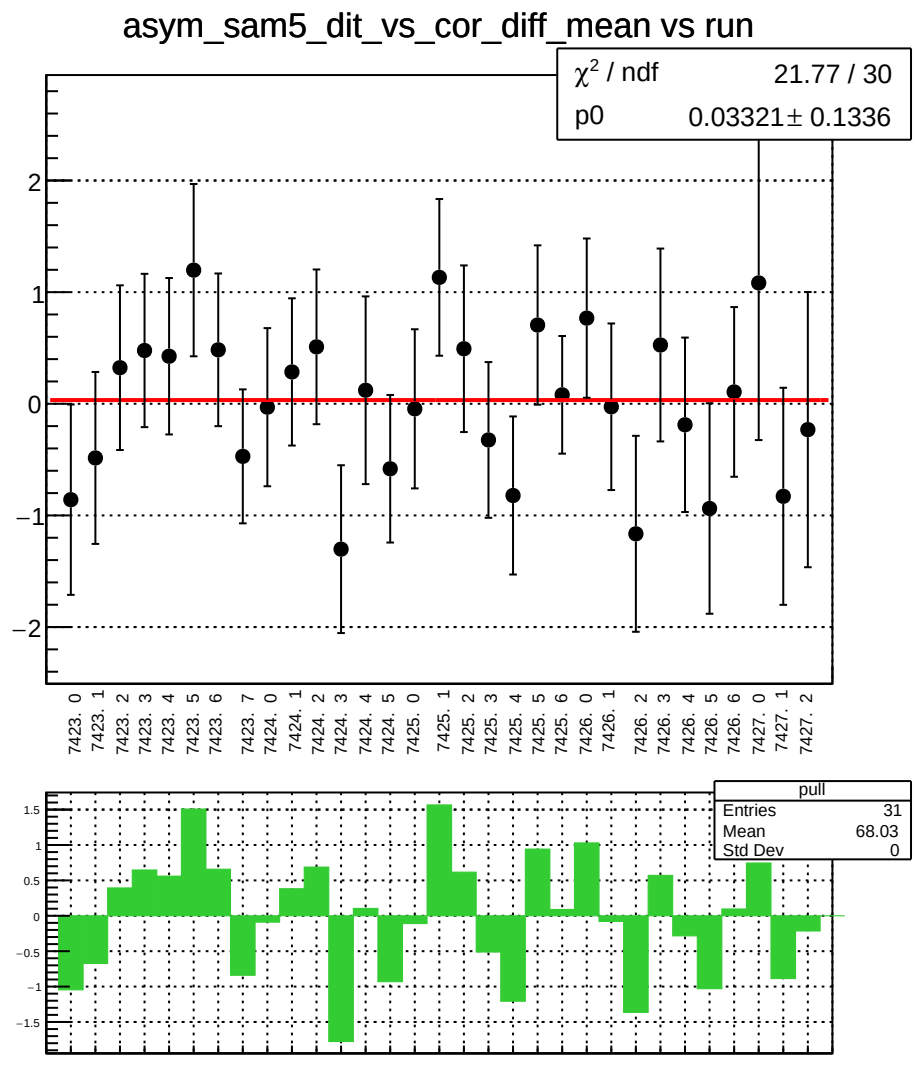

pull1D
Entries 31
Mean −0.01641
Std Dev 0.8933
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

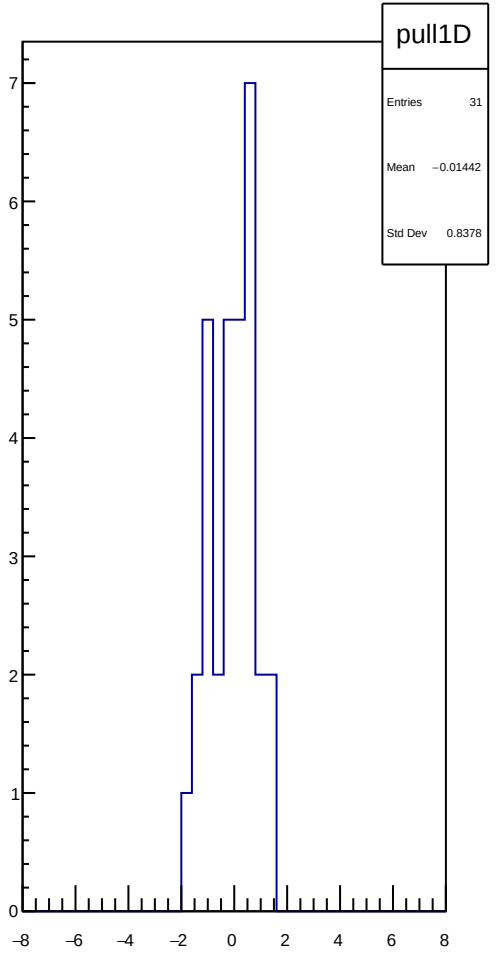

asym_sam5_rms vs run
χ² / ndf 1190 / 30
p0 1009 ± 1.309
1100
1080
1060
1040
1020
1000
980
960
940
920
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

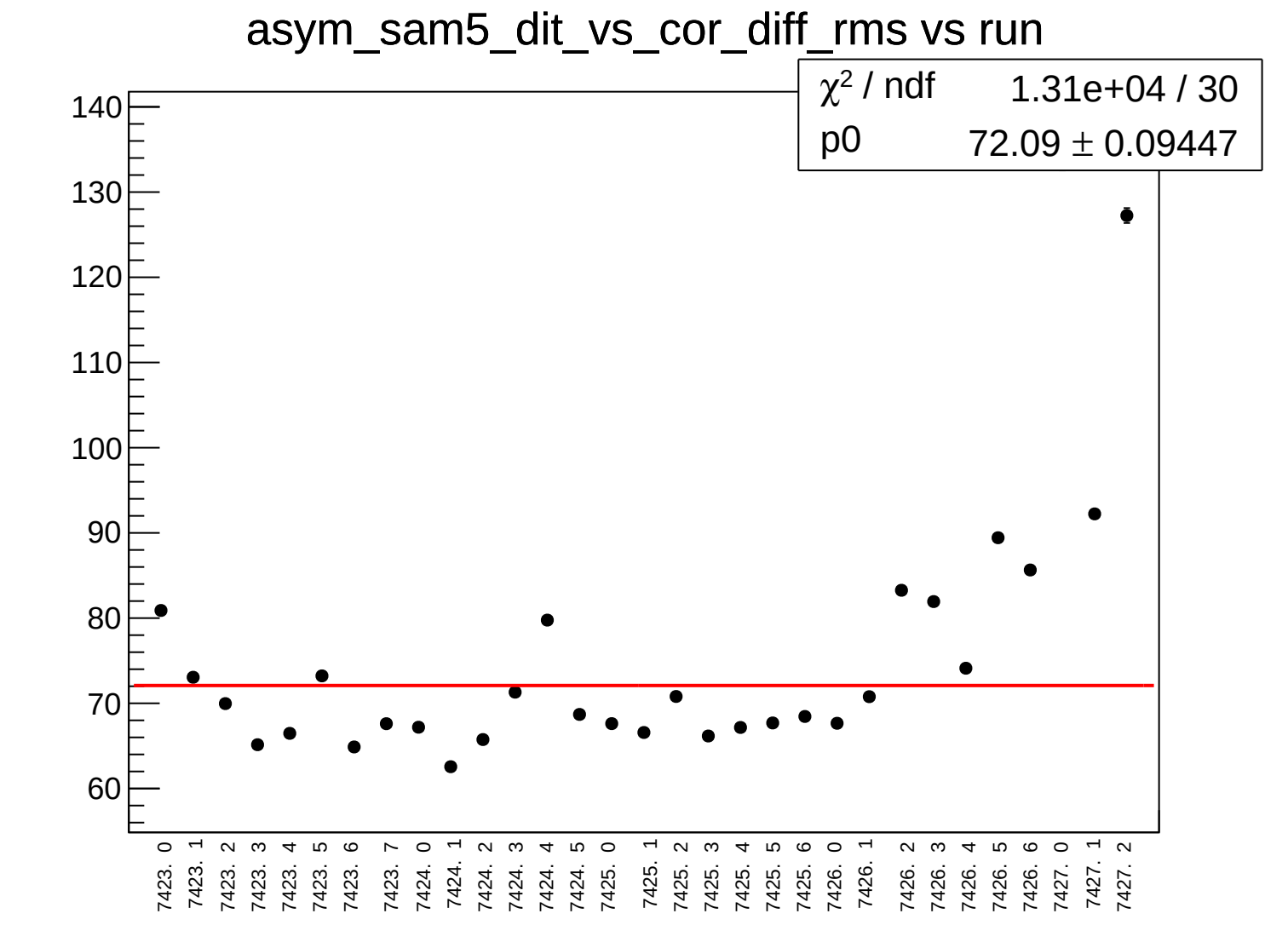

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 32.66 / 30
p0 5.205e−14 ± 6.584e−14
0.002
0.001
0
−0.001
−0.002
−0.003
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −81.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

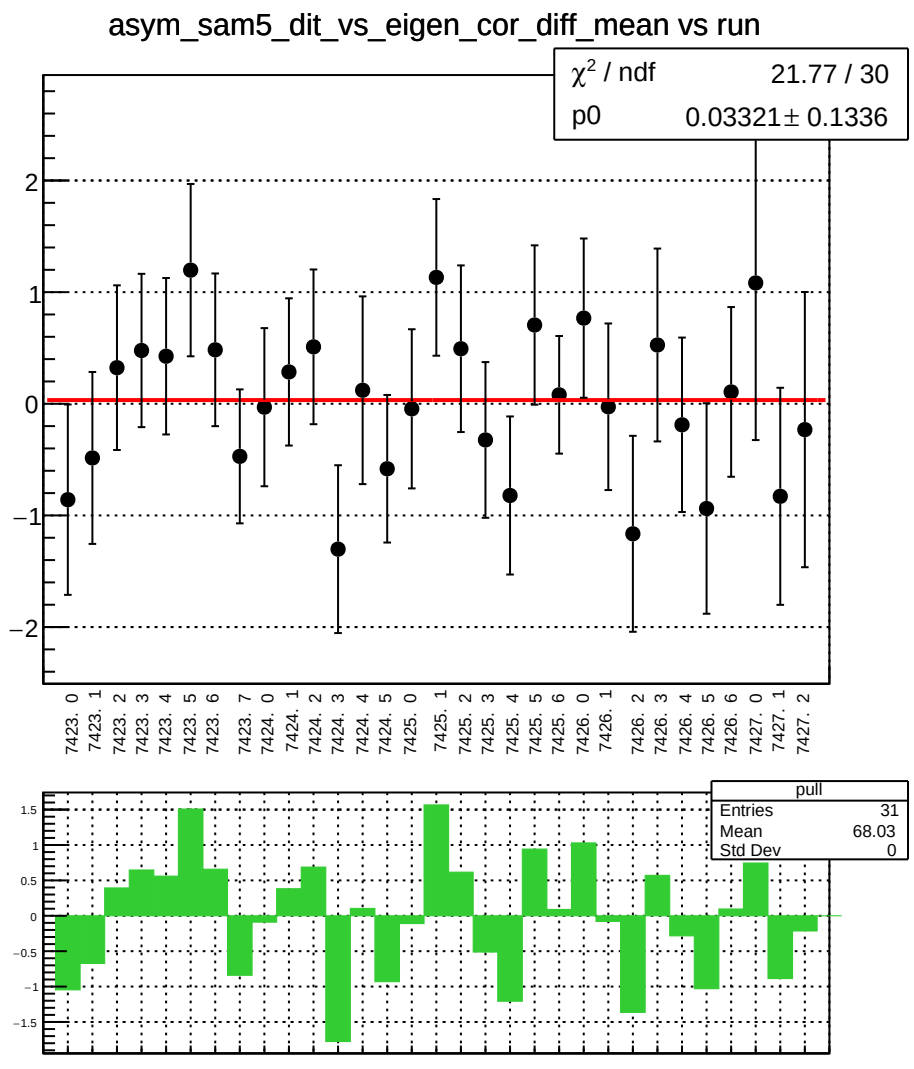

pull1D
Entries 31
Mean 0.004955
Std Dev 1.026
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

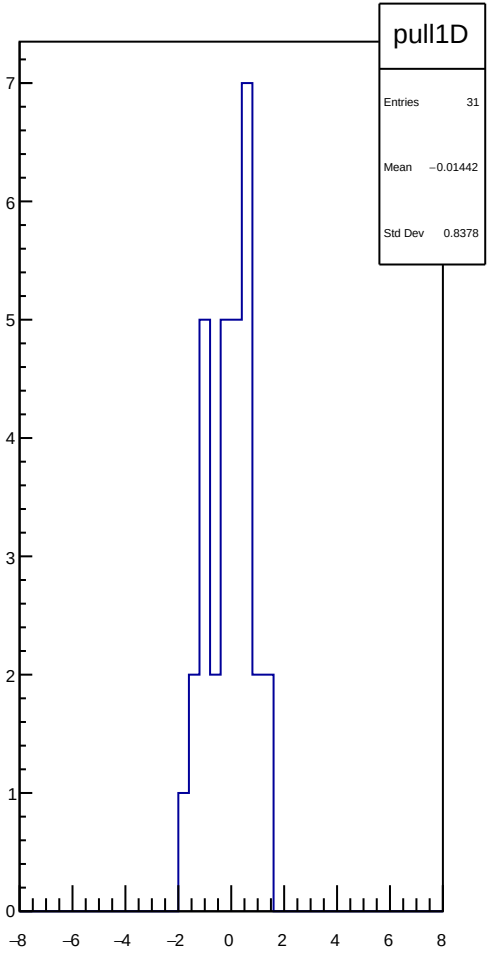

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 5.225e+05 / 30
p0 1.258e−11 ± 4.656e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

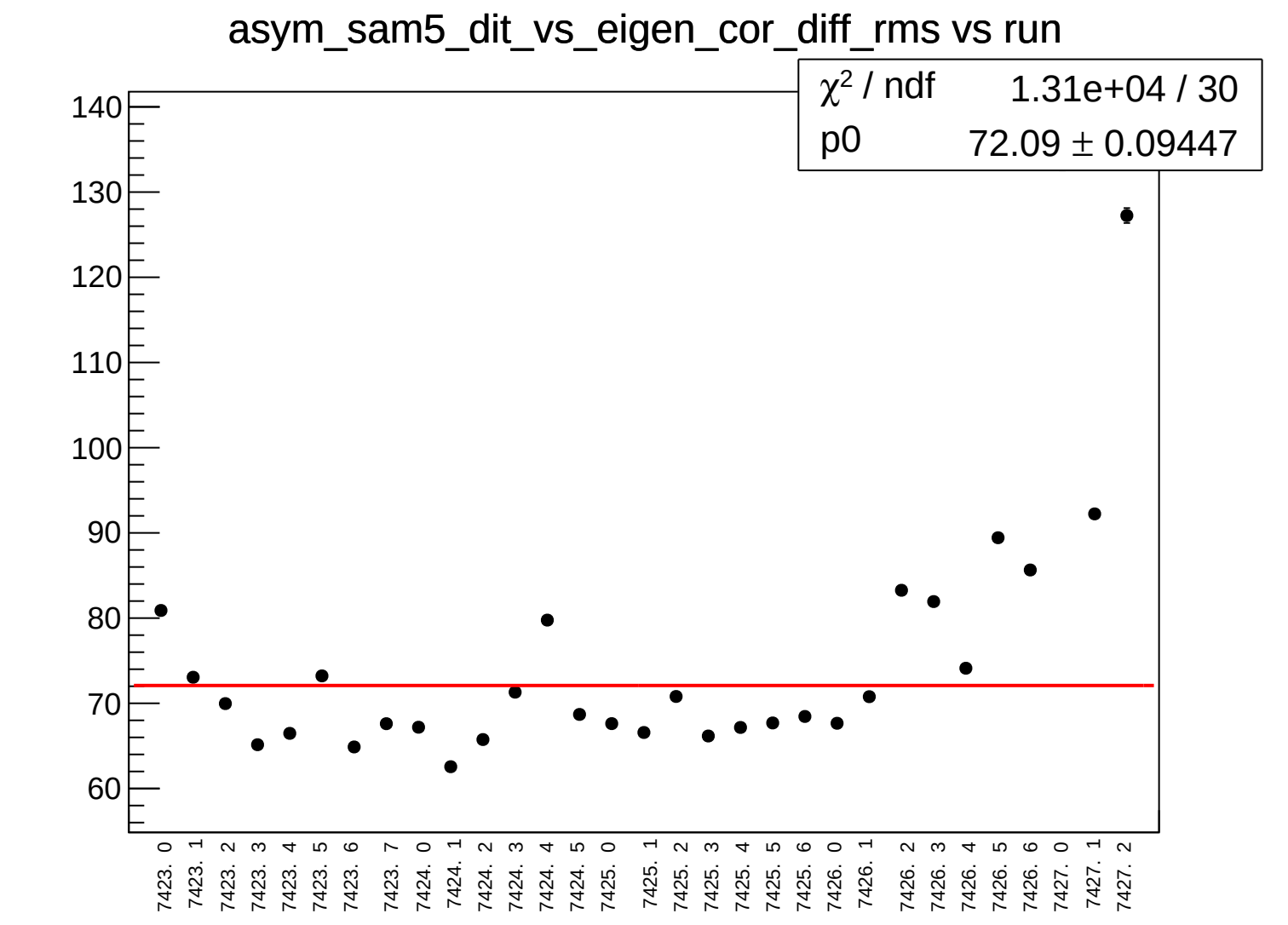

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 21.77 / 30
p0 0.03321± 0.1336
pull
Entries 31
Mean 68.03
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

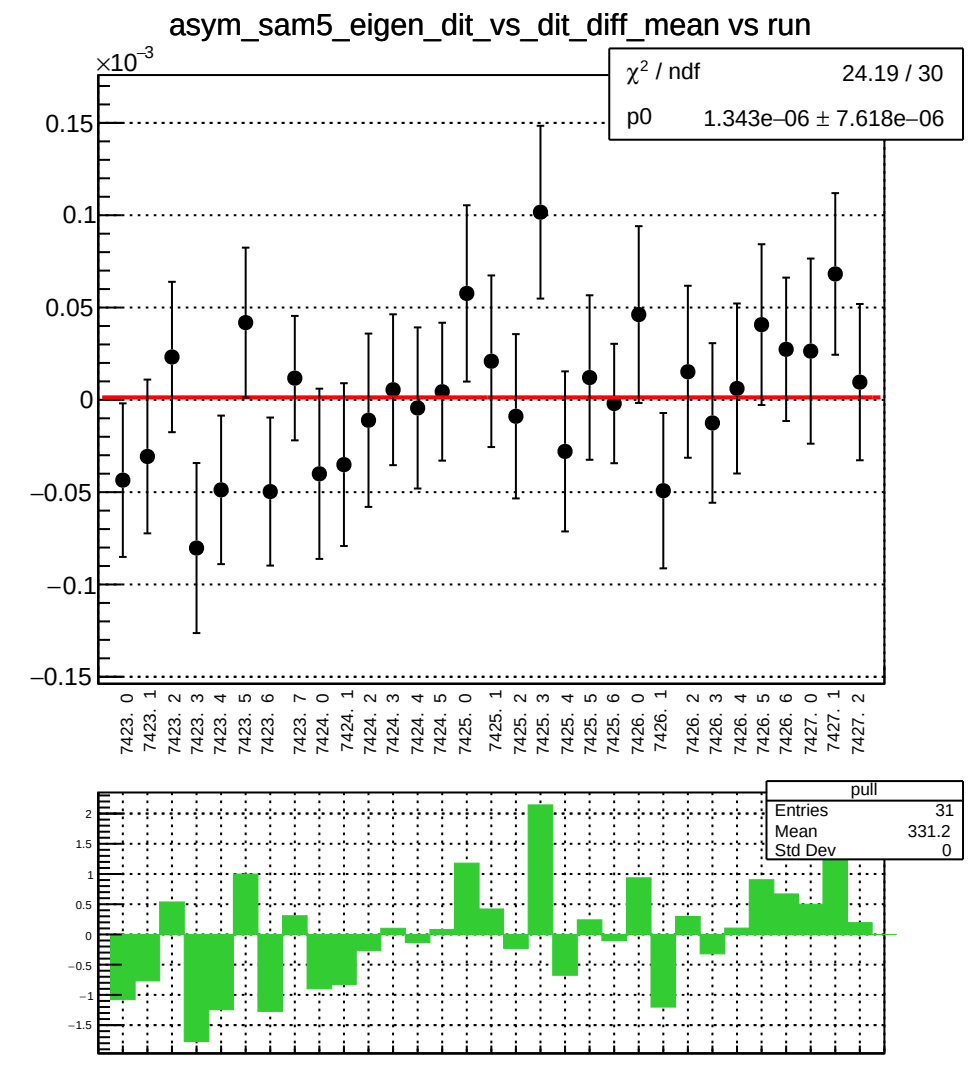

pull1D
Entries 31
Mean −0.01442
Std Dev 0.8378

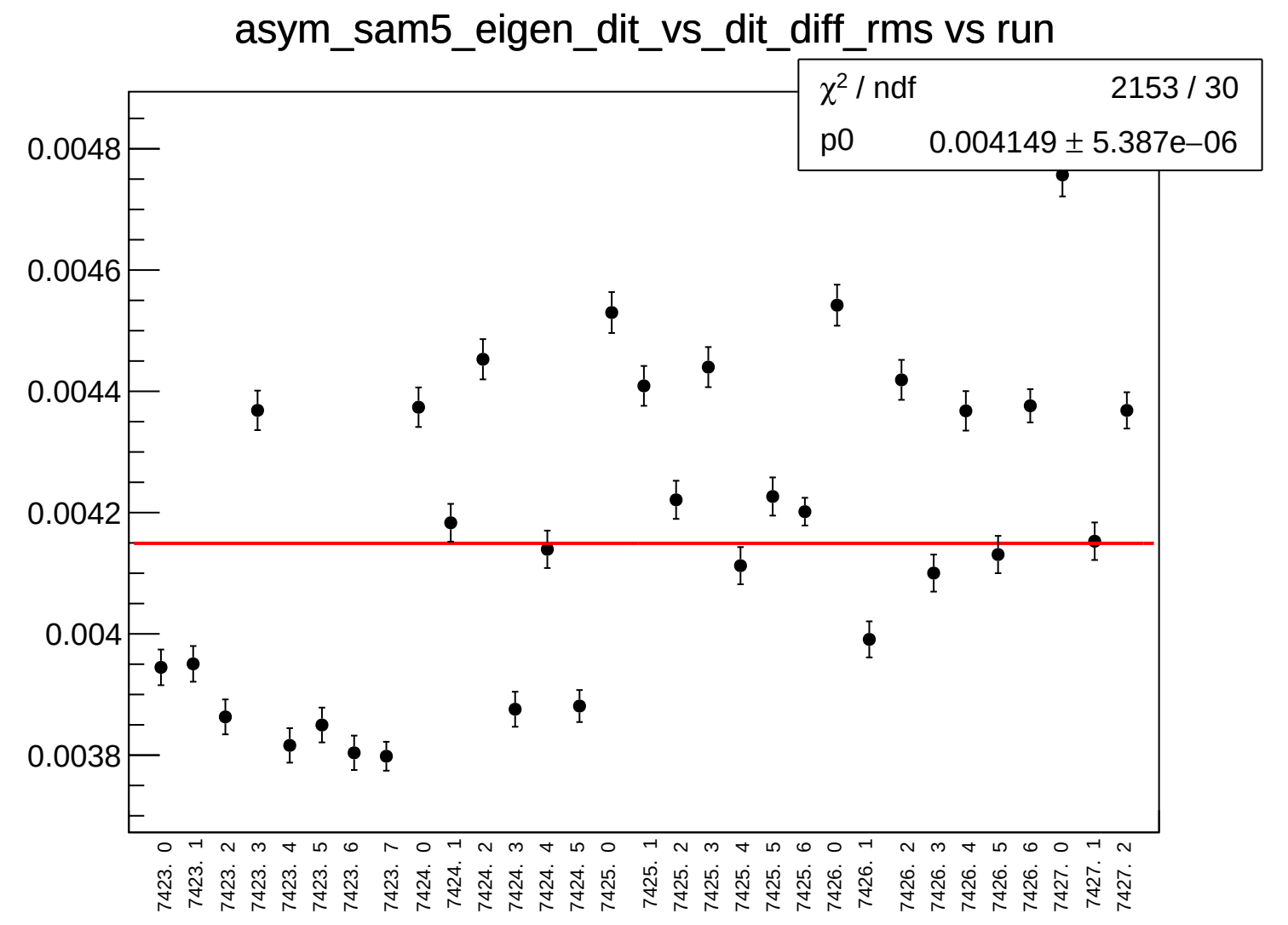

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 1.31e+04 / 30
p0 72.09 ± 0.09447
140
130
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

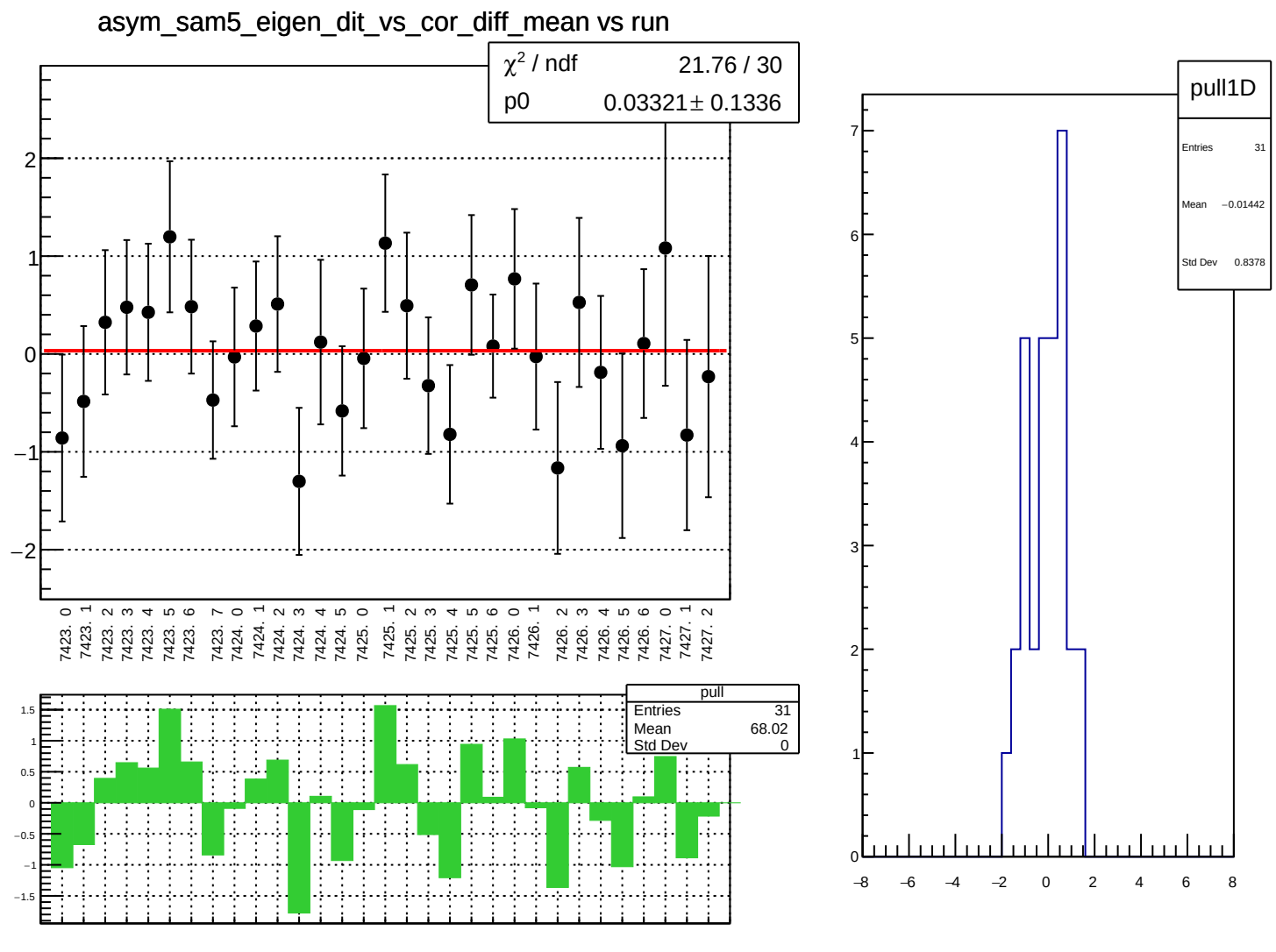

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.77 / 30
p0 0.03321± 0.1336
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

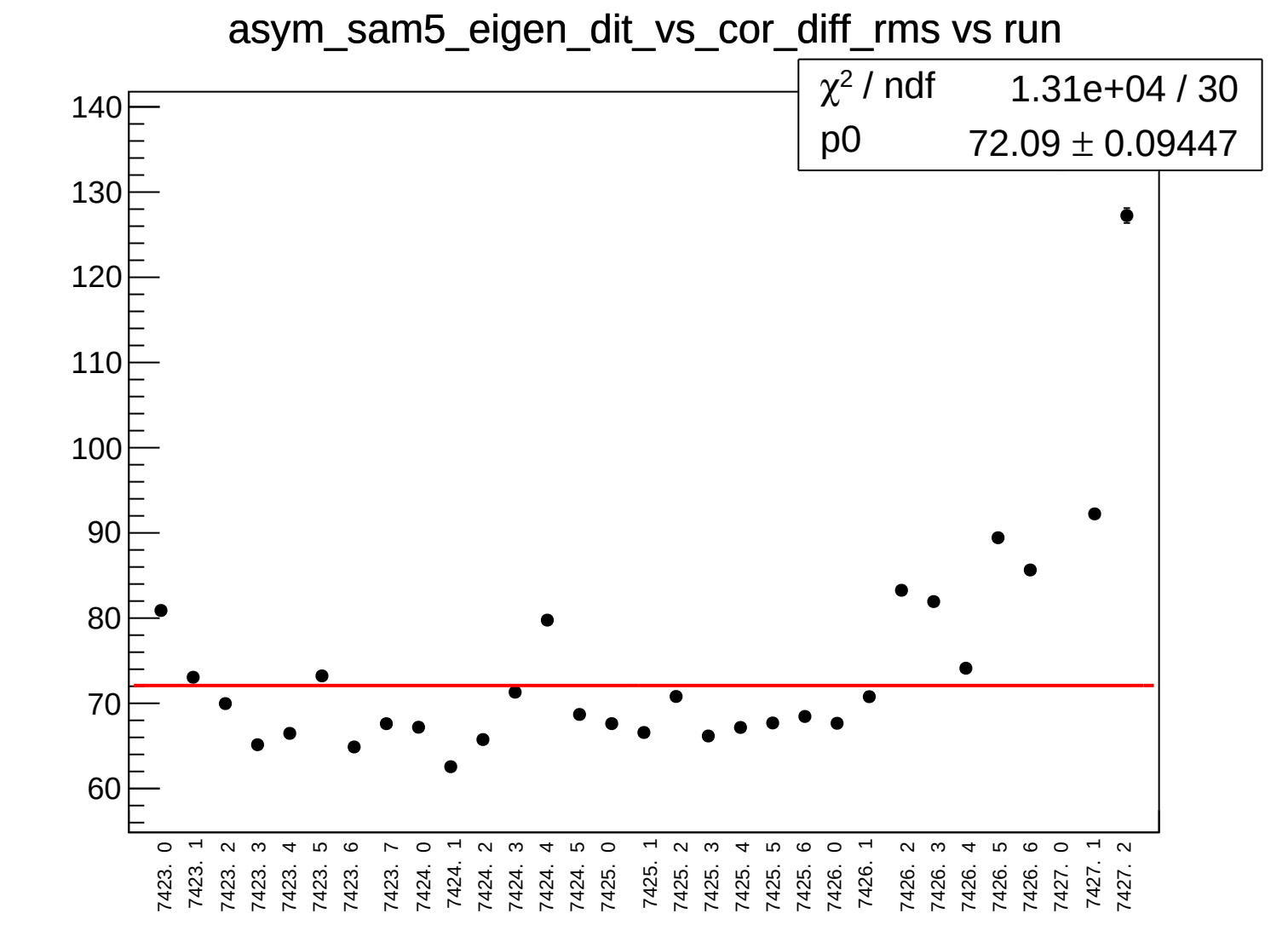

pull1D
Entries 31
Mean −0.01442
Std Dev 0.8378
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

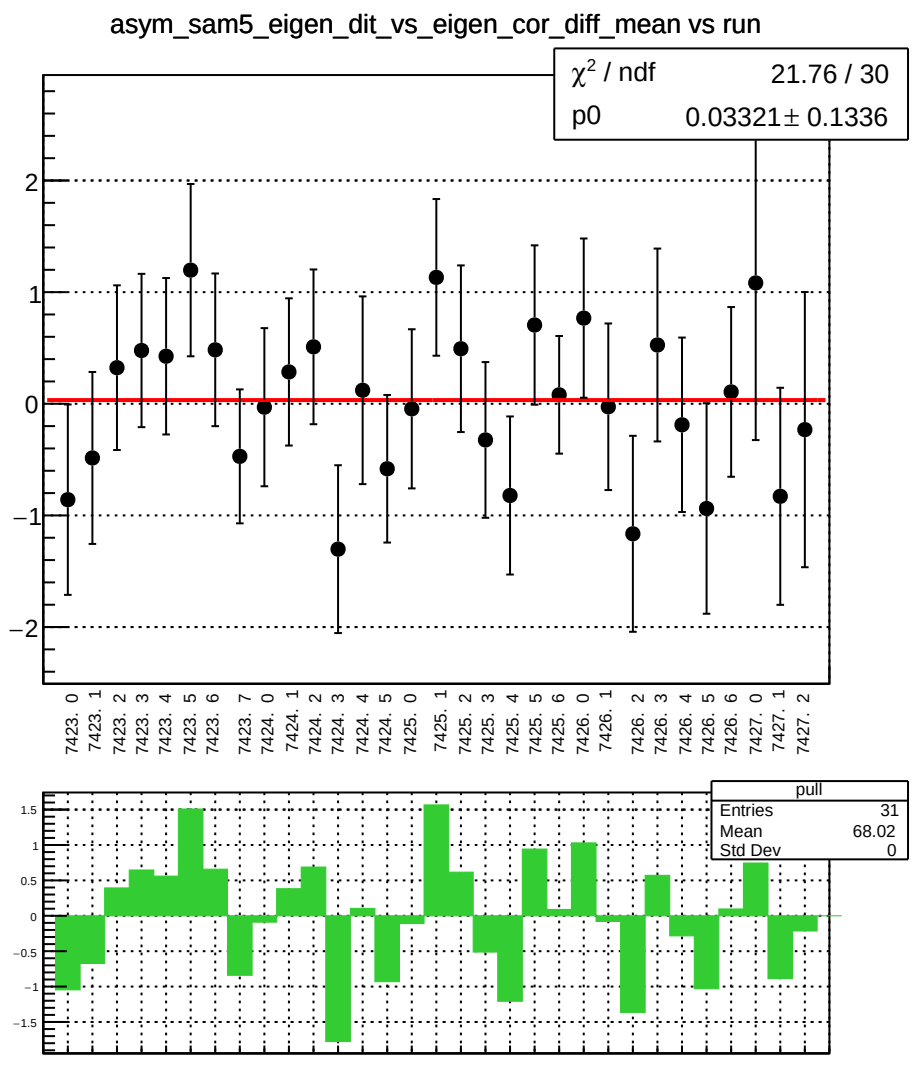

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.31e+04 / 30
p0 72.09 ± 0.09447
140
130
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

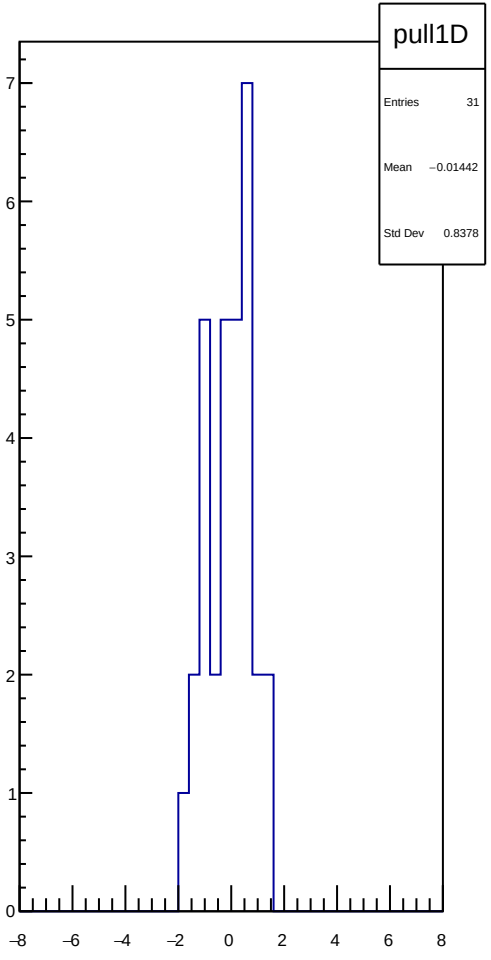

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 24.19 / 30
p0 1.343e−06 ± 7.618e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 331.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01166
Std Dev 0.8832
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

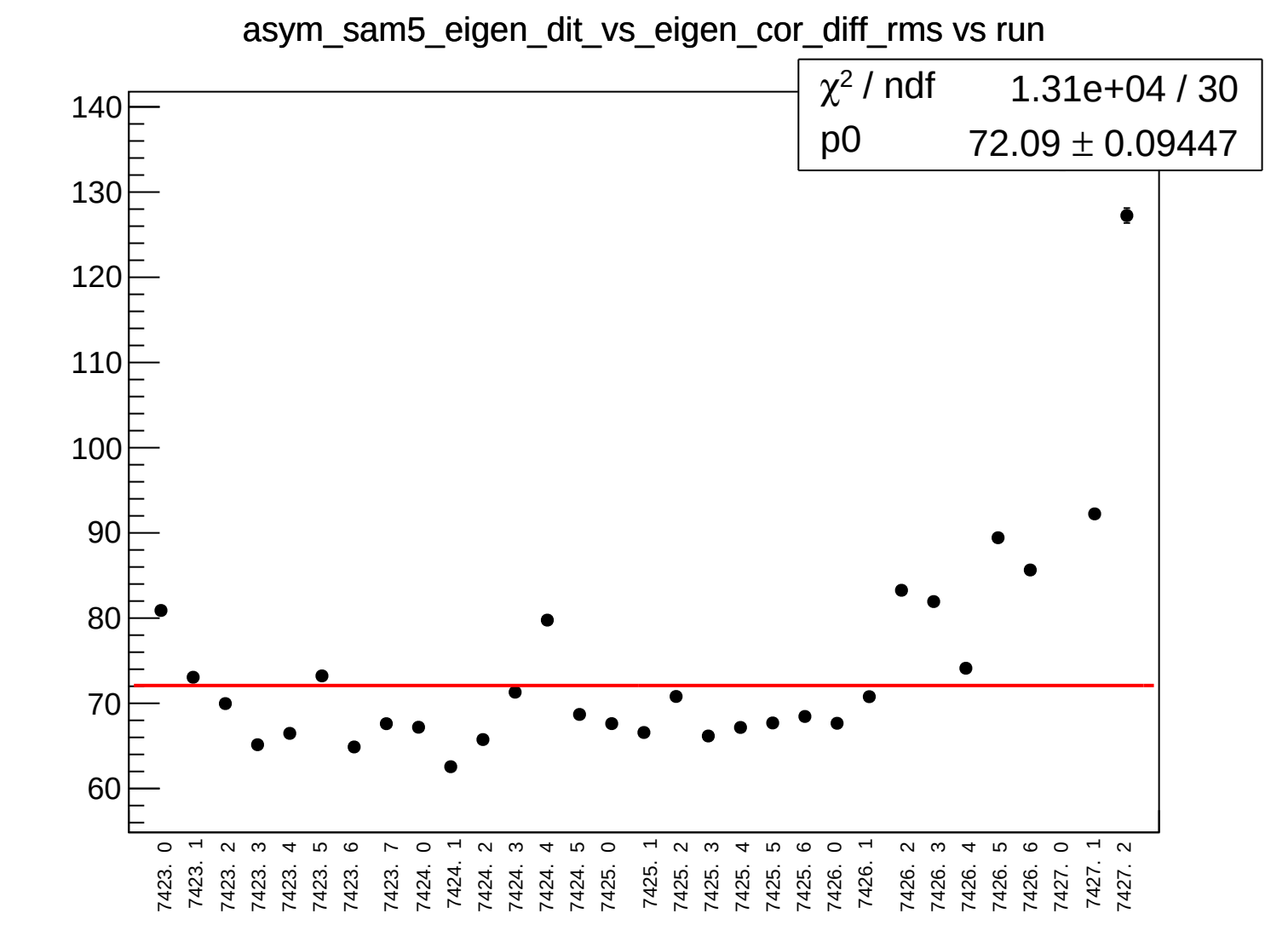

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2153 / 30
p0 0.004149 ± 5.387e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

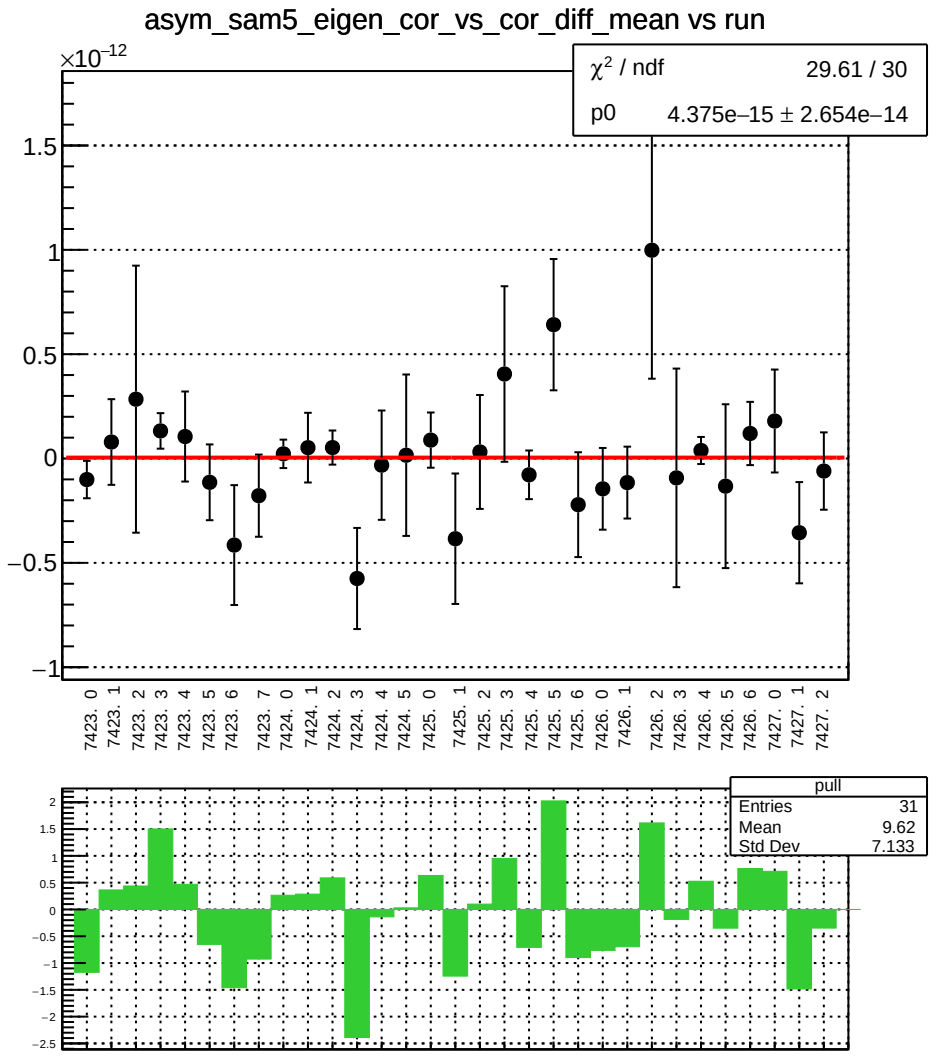

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.76 / 30
p0 0.03321± 0.1336
pull
Entries 31
Mean 68.02
Std Dev 0
pull1D
Entries 31
Mean −0.01442
Std Dev 0.8378

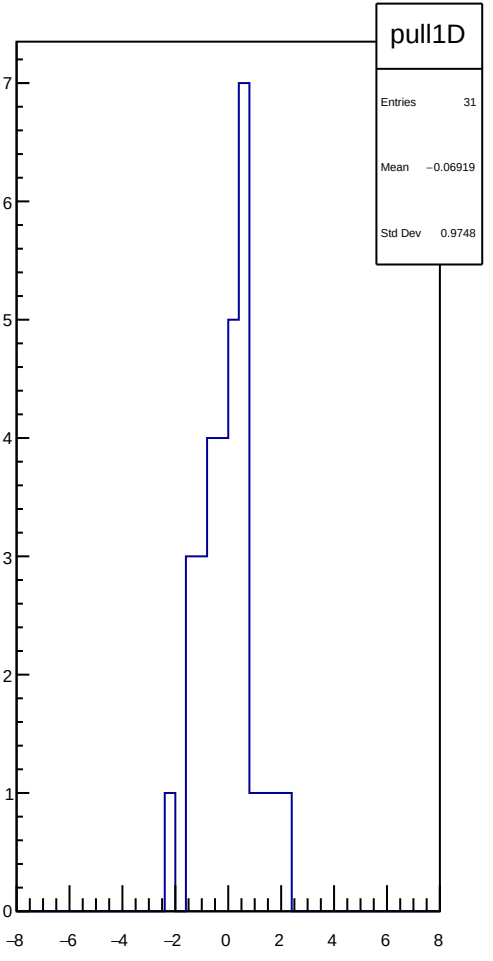

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.31e+04 / 30
p0 72.09 ± 0.09447
140
130
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

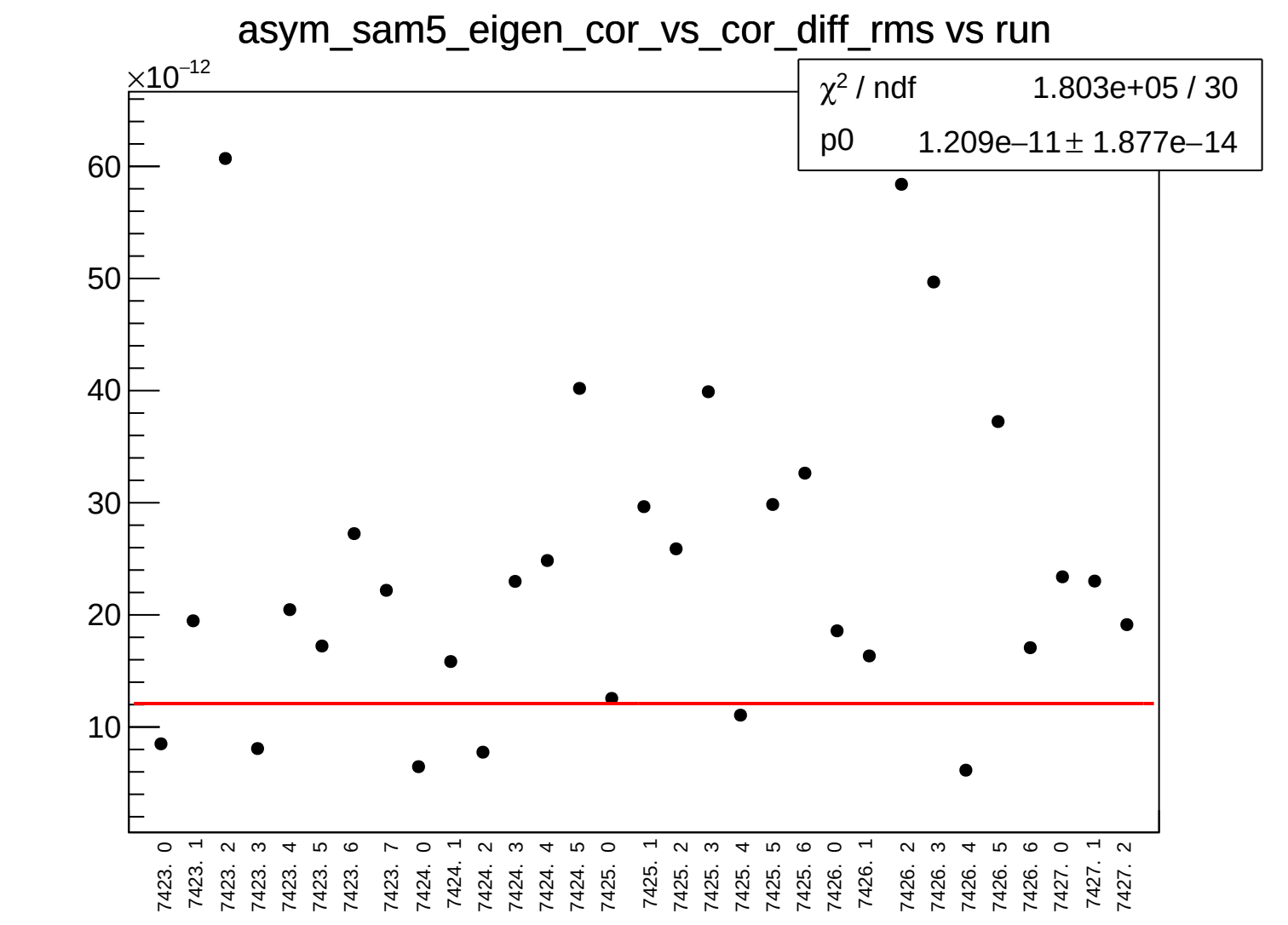

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.76 / 30
p0 0.03321± 0.1336
pull
Entries 31
Mean 68.02
Std Dev 0

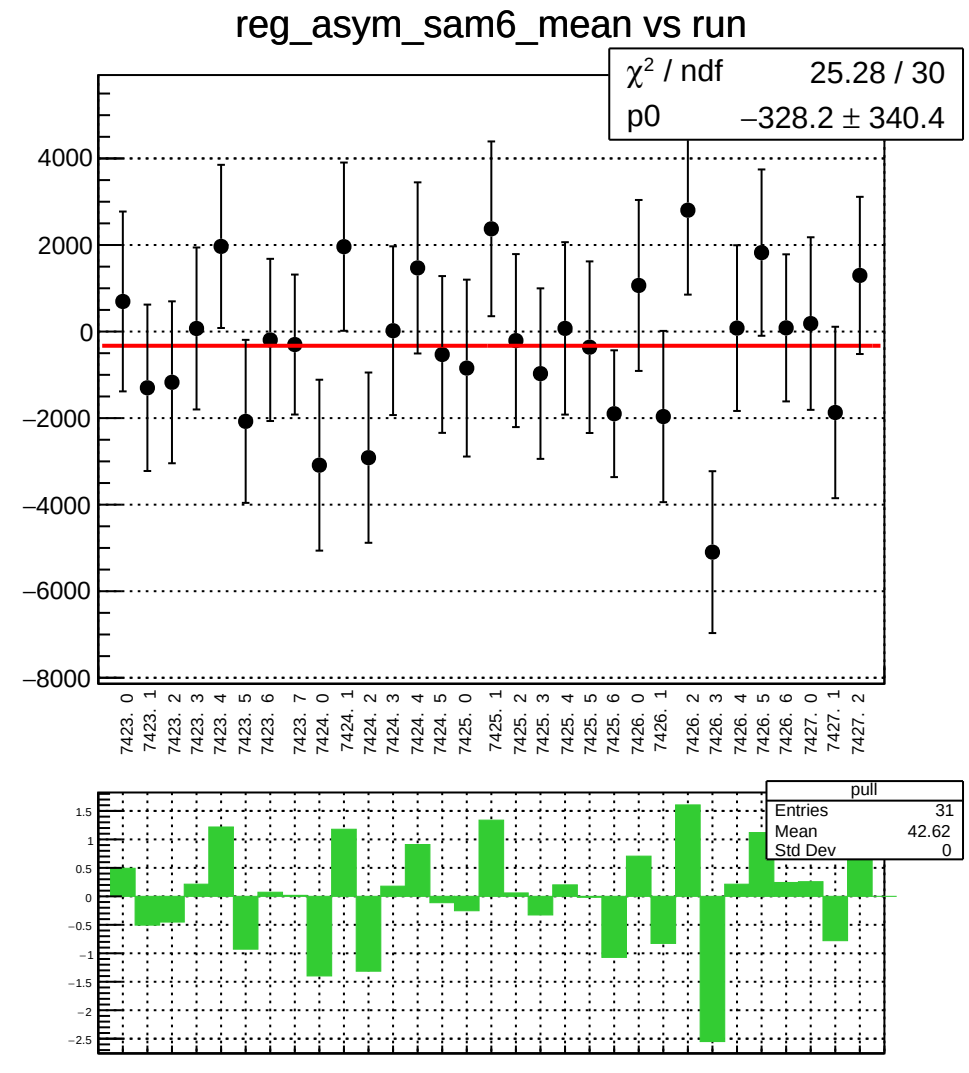

pull1D
Entries 31
Mean −0.01442
Std Dev 0.8378

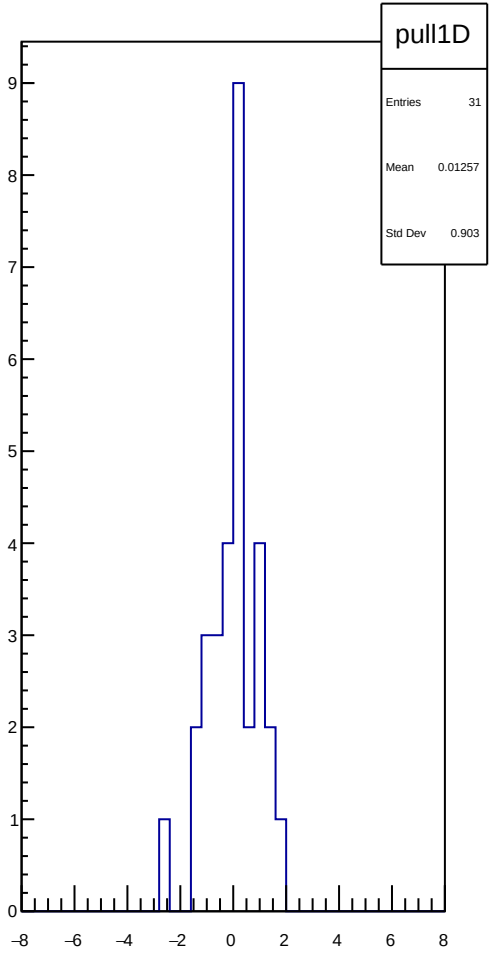

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.31e+04 / 30
p0 72.09 ± 0.09447
140
130
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

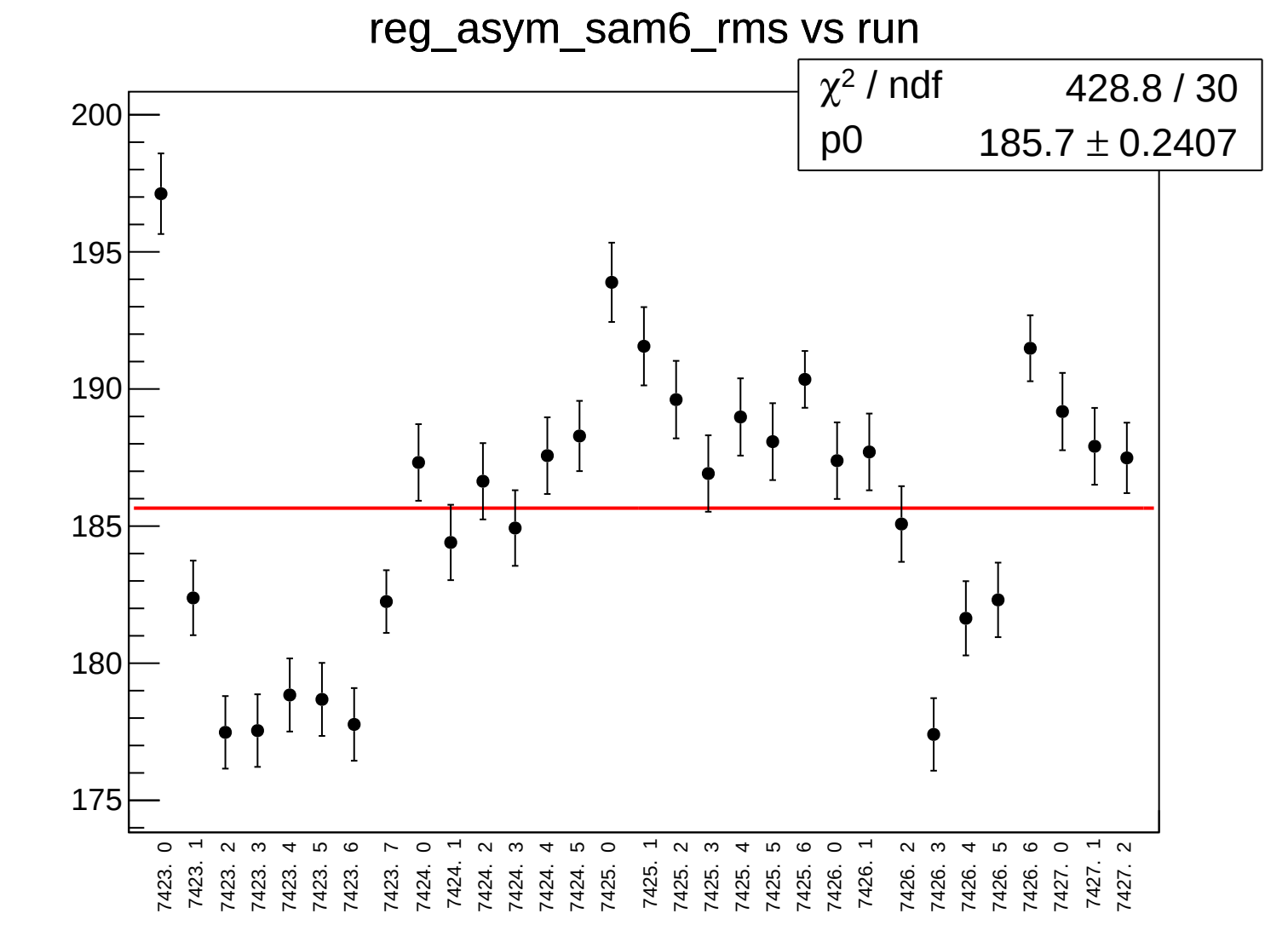

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.61 / 30
p0 4.375e−15 ± 2.654e−14
1.5
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 9.62
Std Dev 7.133
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

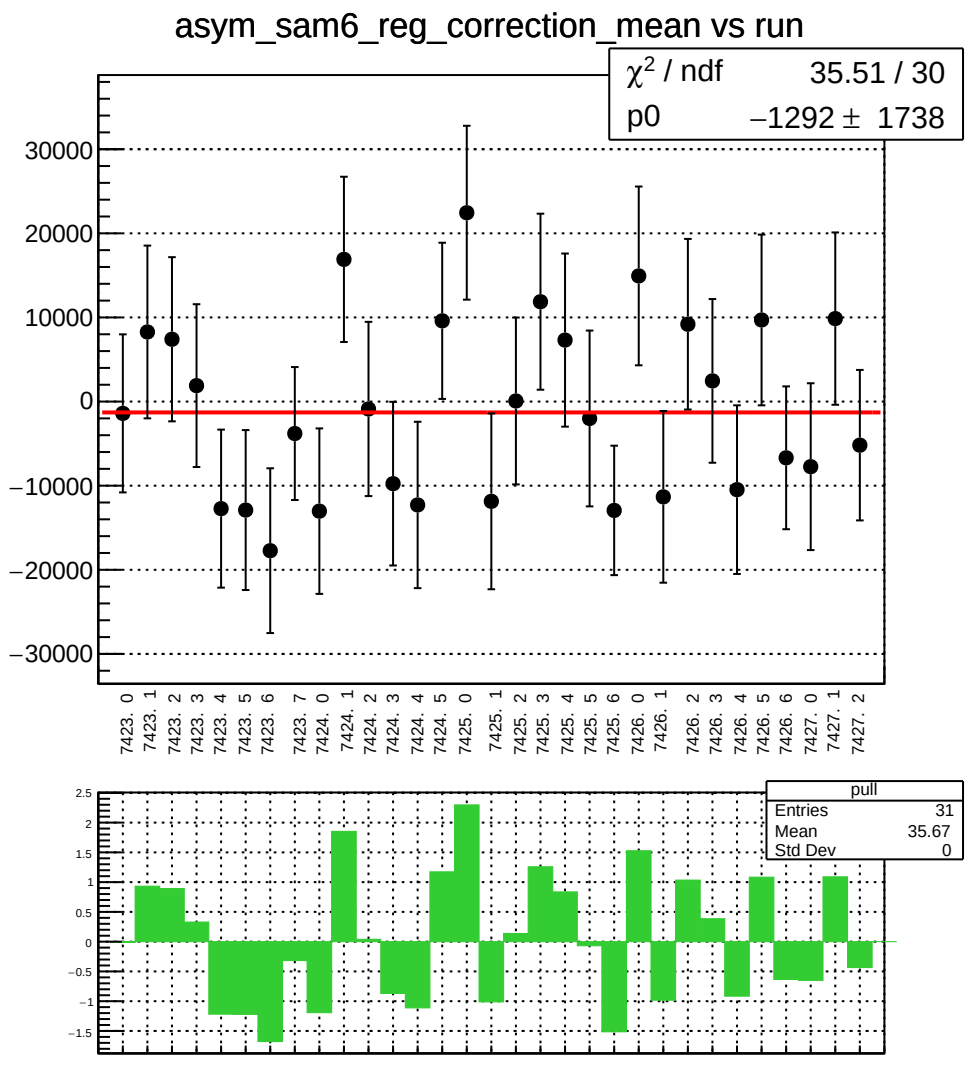

pull1D
Entries 31
Mean −0.06919
Std Dev 0.9748
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

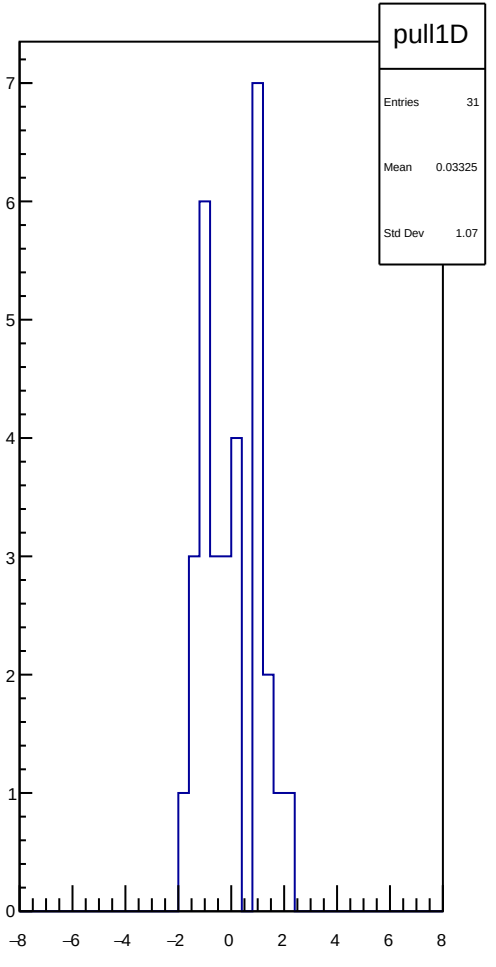

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.803e+05 / 30
p0 1.209e−11 ± 1.877e−14
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

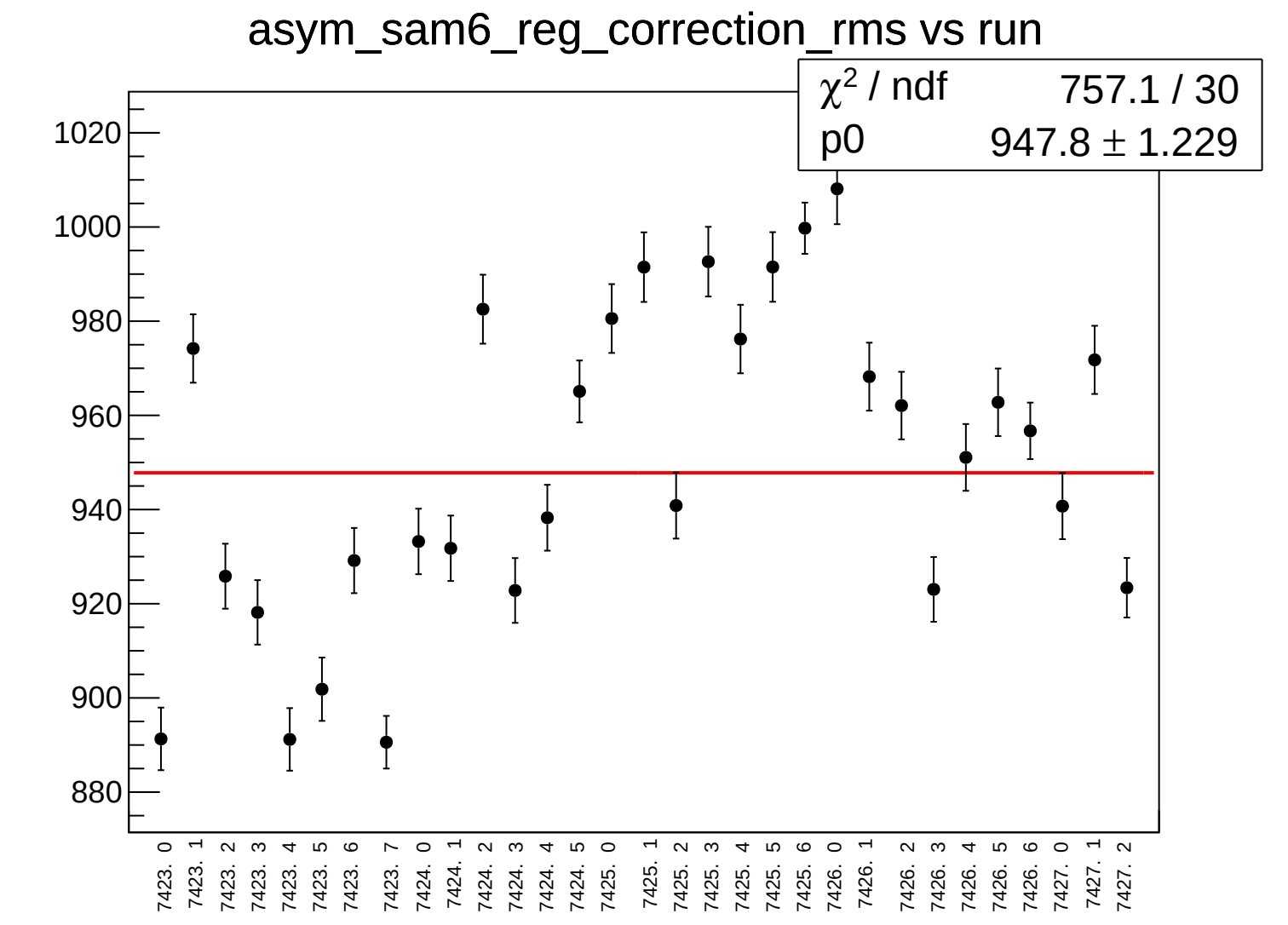

reg_asym_sam6_mean vs run
χ² / ndf 25.28 / 30
p0 −328.2 ± 340.4
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 42.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

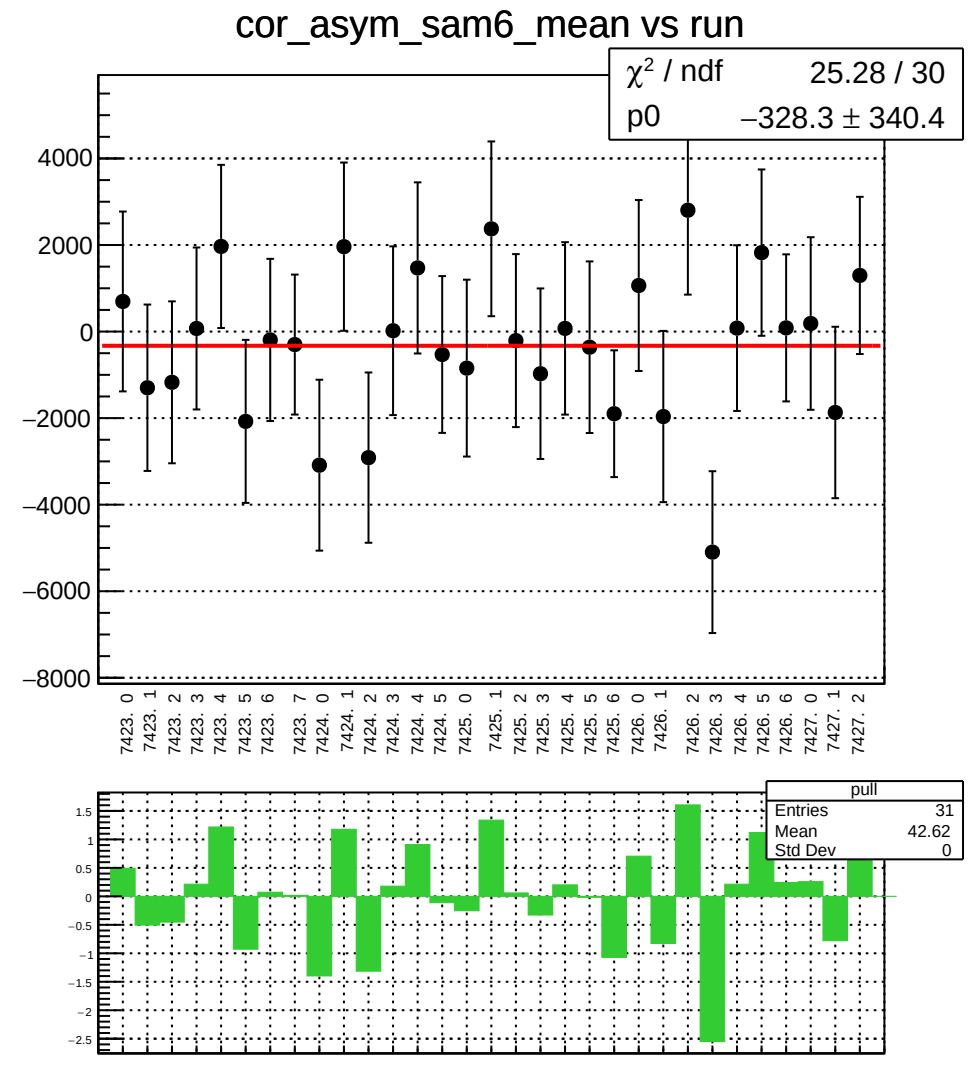

pull1D
Entries 31
Mean 0.01257
Std Dev 0.903
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

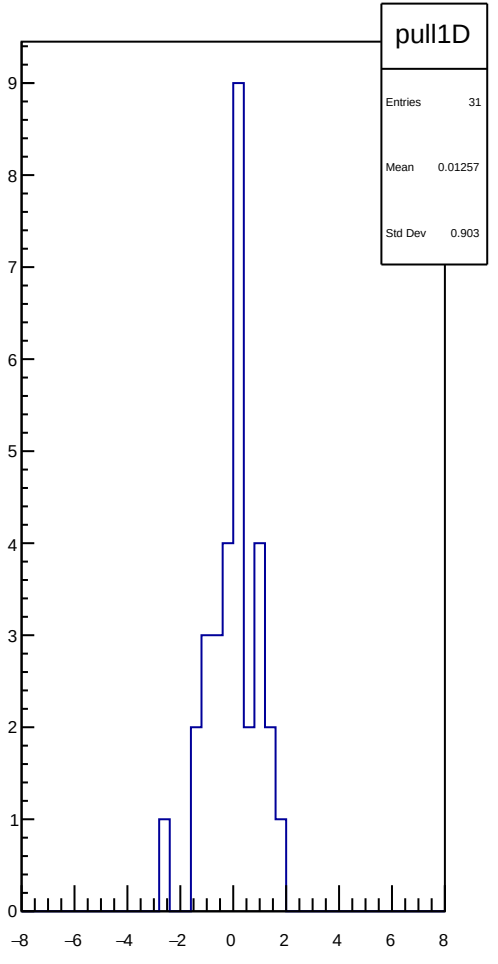

reg_asym_sam6_rms vs run
χ² / ndf 428.8 / 30
p0 185.7 ± 0.2407
200
195
190
185
180
175
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

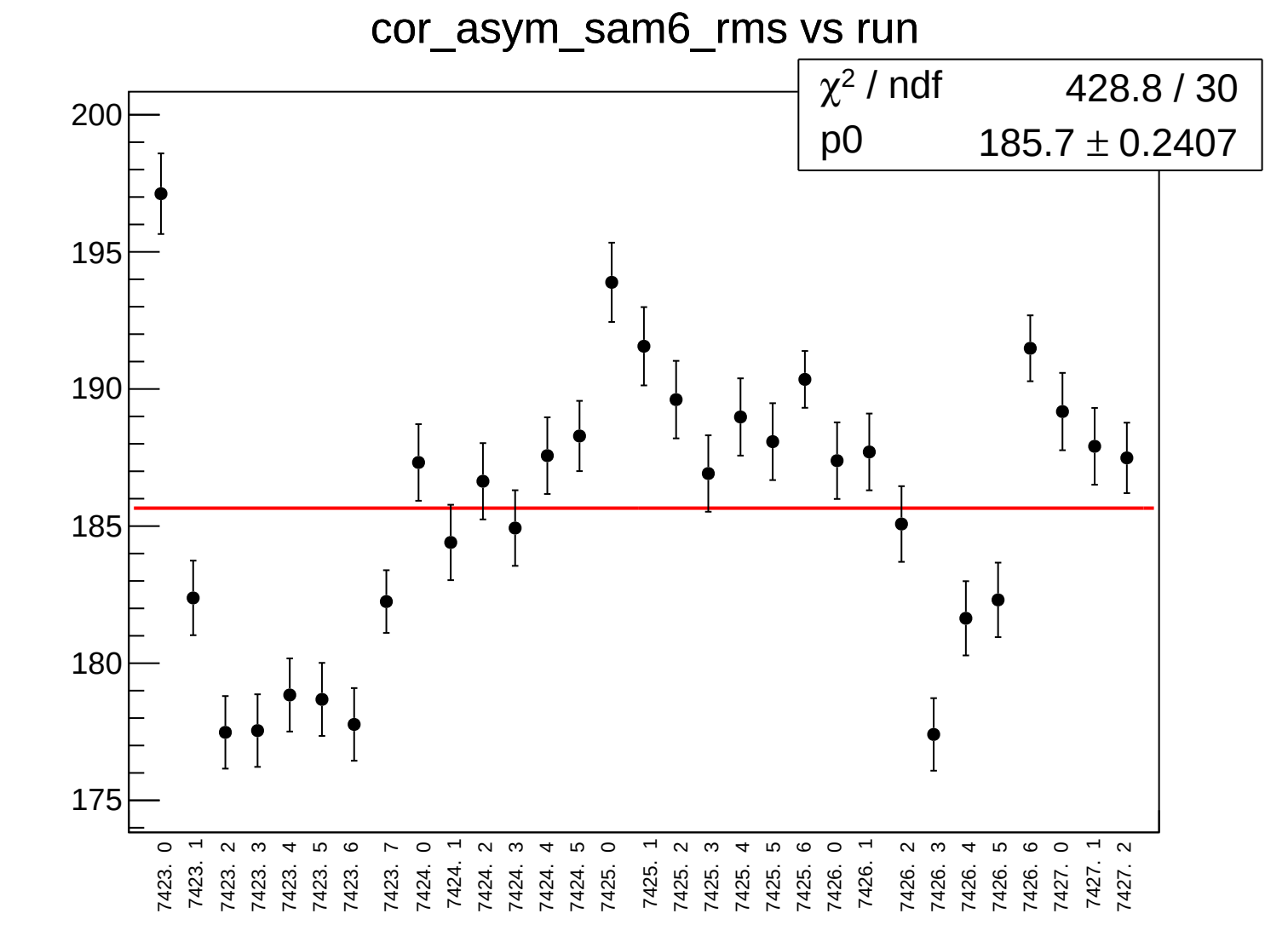

asym_sam6_reg_correction_mean vs run
χ² / ndf 35.51 / 30
p0 −1292 ± 1738
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 35.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean 0.03325
Std Dev 1.07
7
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 757.1 / 30
p0 947.8 ± 1.229
1020
1000
980
960
940
920
900
880
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


cor_asym_sam6_mean vs run
χ² / ndf 25.28 / 30
p0 −328.3 ± 340.4
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 42.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 31
Mean 0.01257
Std Dev 0.903
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam6_rms vs run
χ² / ndf 428.8 / 30
p0 185.7 ± 0.2407
200
195
190
185
180
175
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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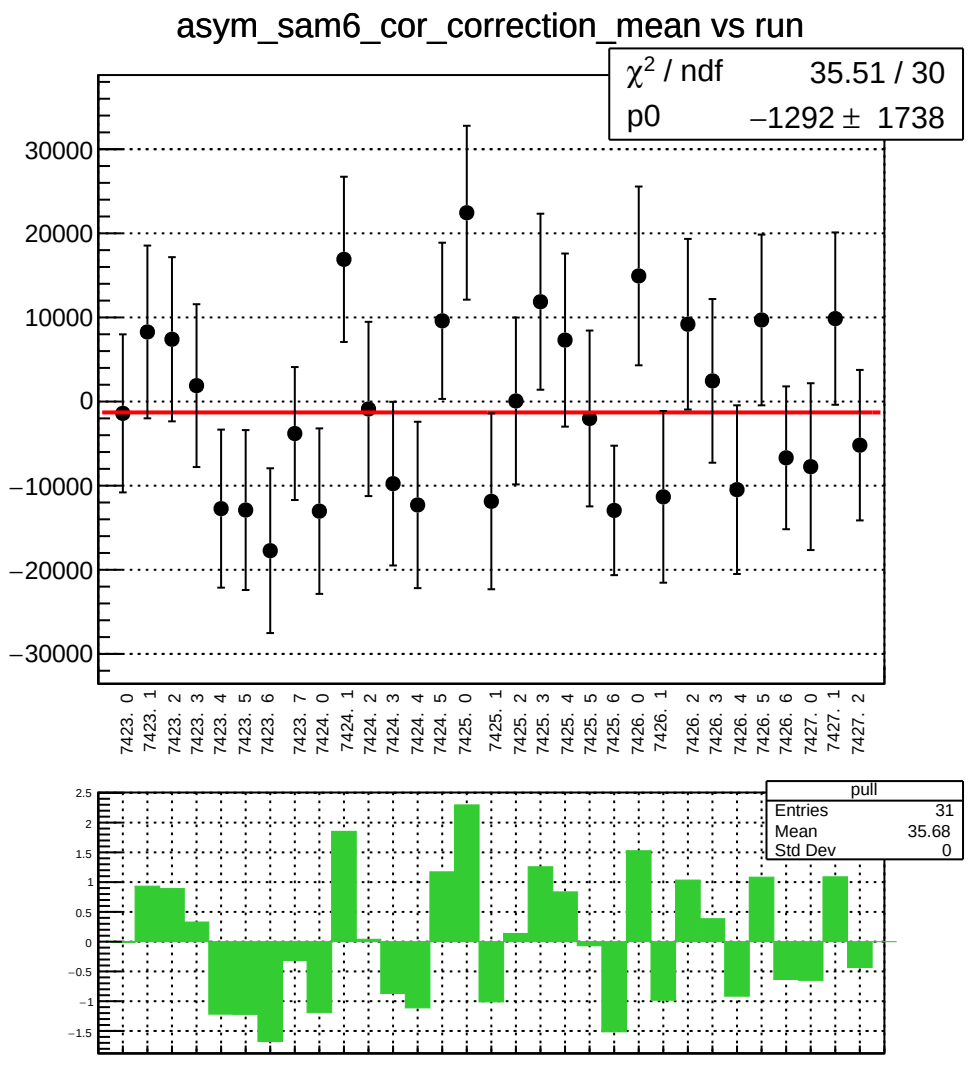
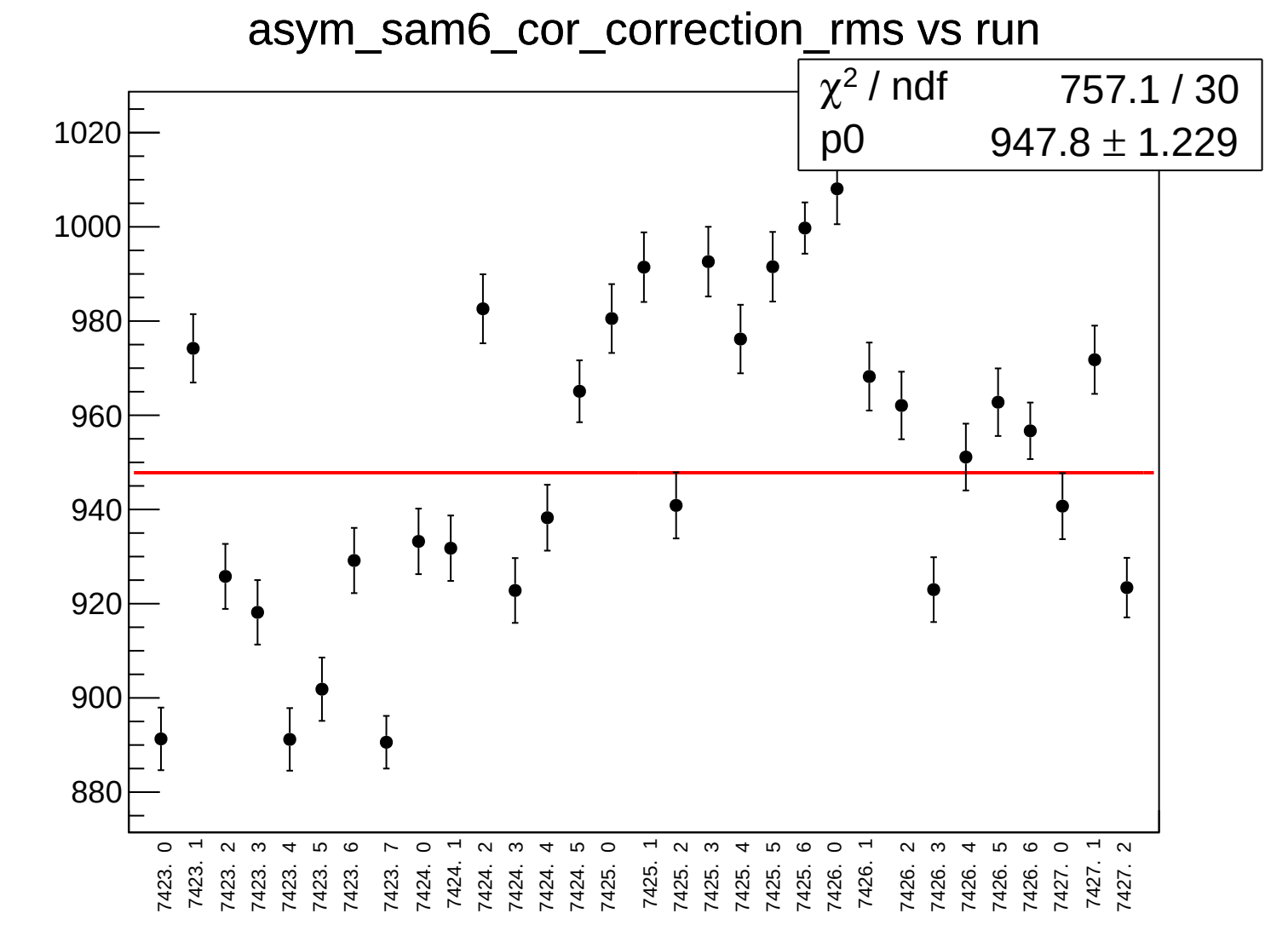
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam6_cor_correction_mean vs run
χ² / ndf 35.51 / 30
p0 −1292 ± 1738
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 35.68
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.03324
Std Dev 1.07
7
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 757.1 / 30
p0 947.8 ± 1.229
1020
1000
980
960
940
920
900
880
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
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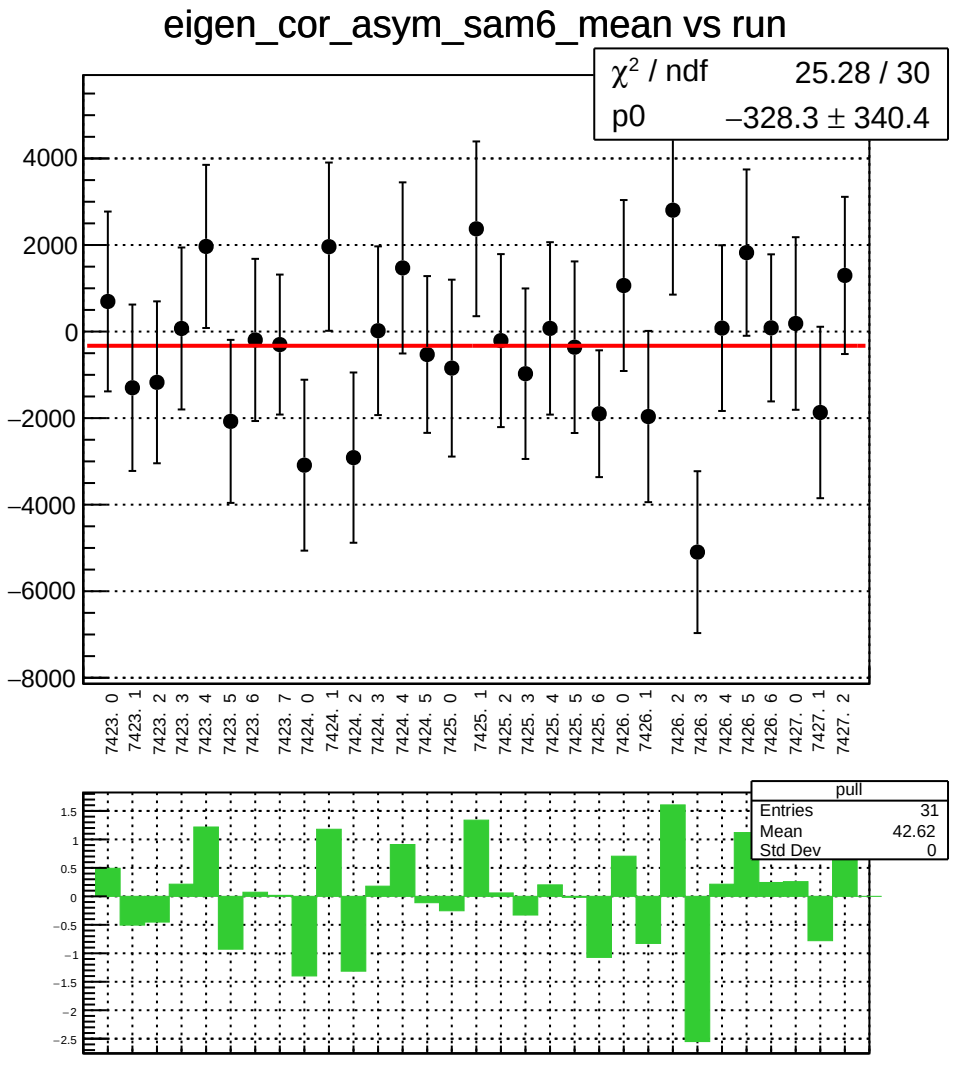
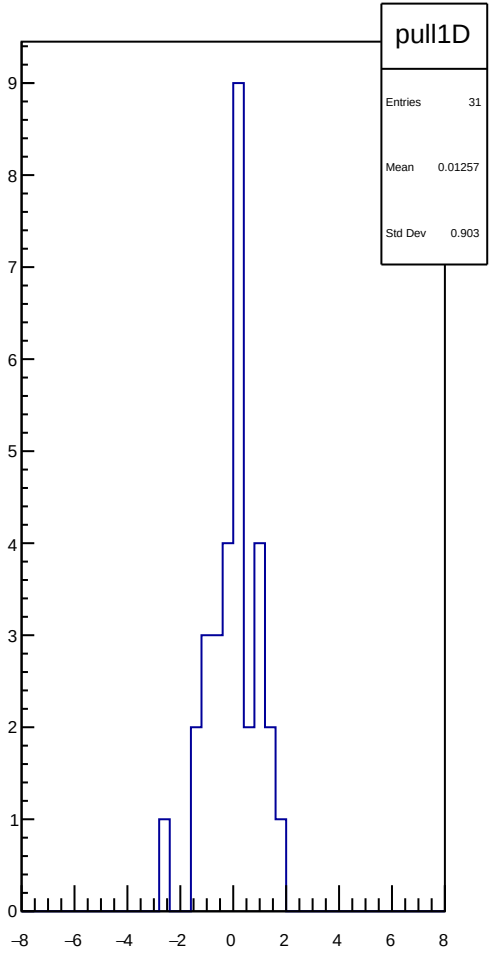
7426. 6
7427. 0
7427. 1
7427. 2


eigen_cor_asym_sam6_mean vs run
χ² / ndf 25.28 / 30
p0 −328.3 ± 340.4
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 42.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 31
Mean 0.01257
Std Dev 0.903
9
8
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1
0
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−4
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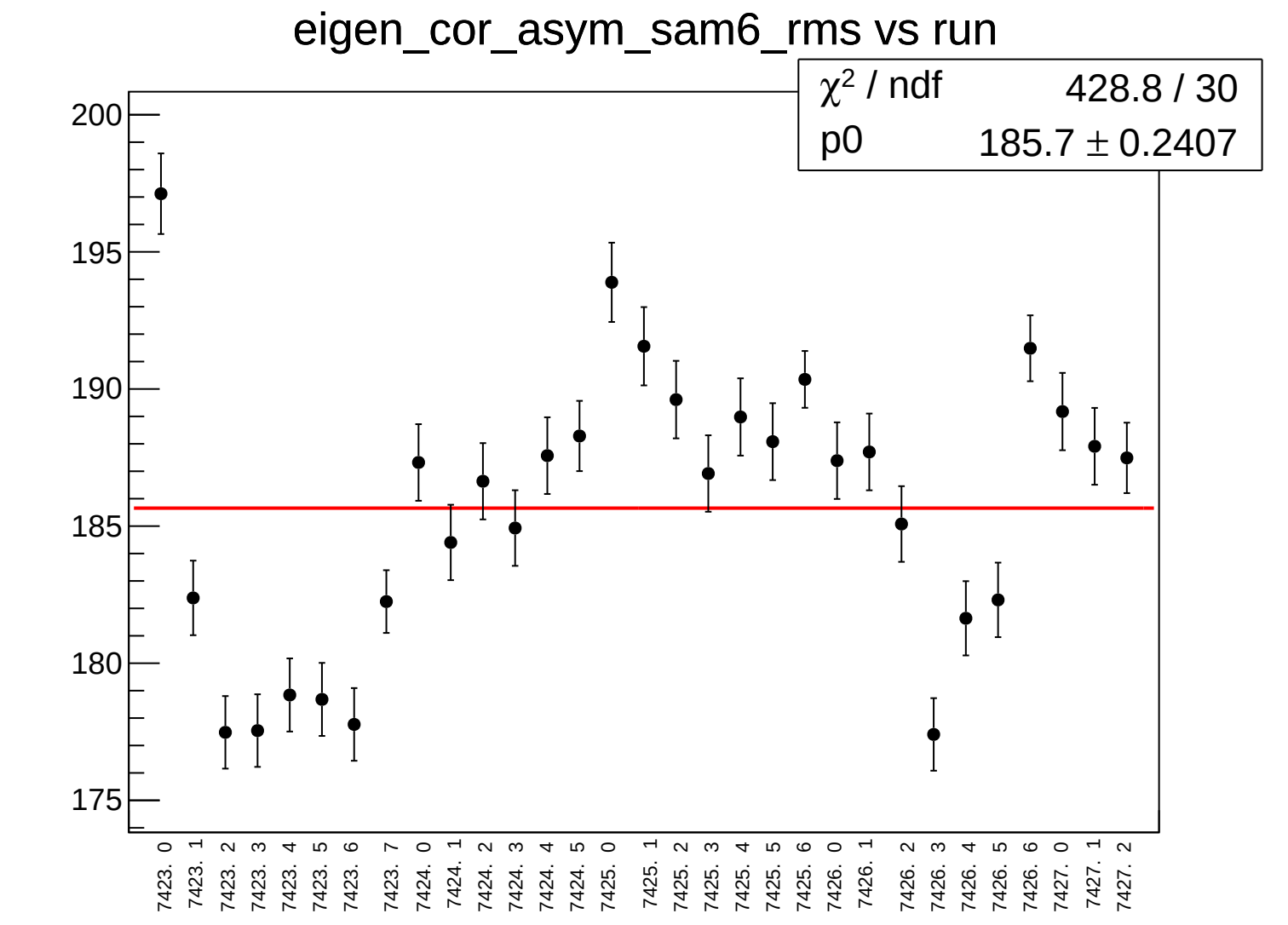
4
6
8


eigen_cor_asym_sam6_rms vs run
χ² / ndf 428.8 / 30
p0 185.7 ± 0.2407
200
195
190
185
180
175
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
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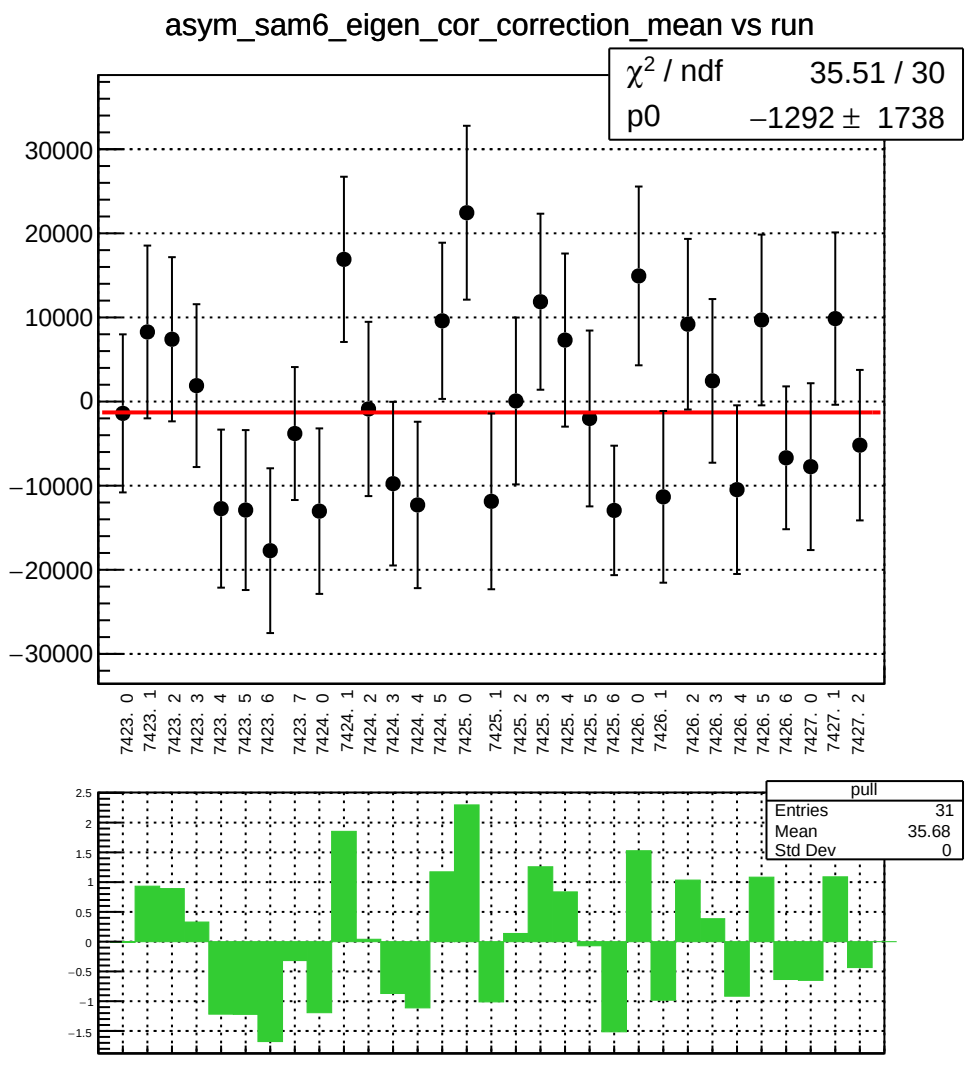
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 35.51 / 30
p0 −1292 ± 1738
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 35.68
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.03324
Std Dev 1.07
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6
5
4
3
2
1
0
−8
−6
−4
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2
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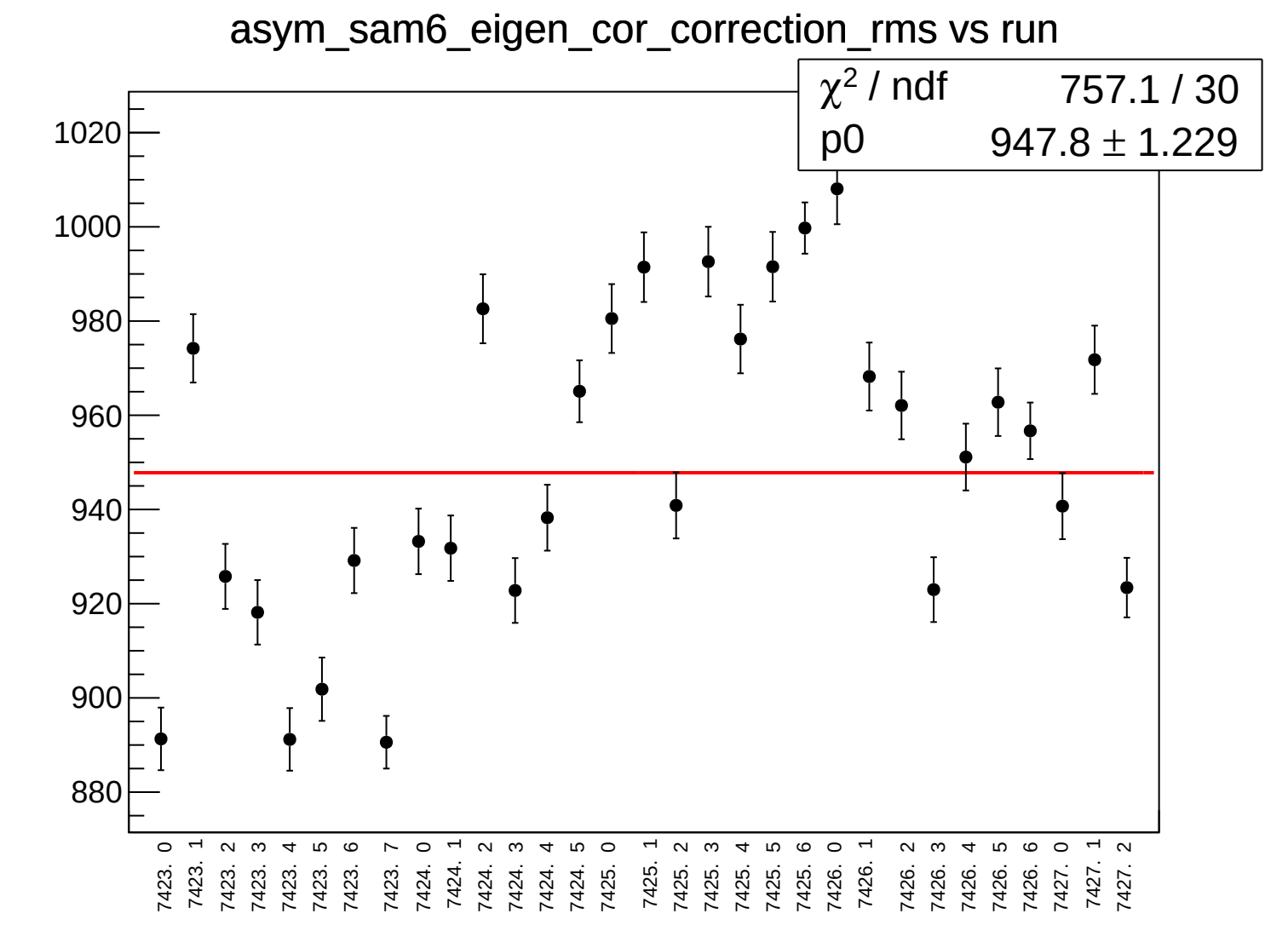
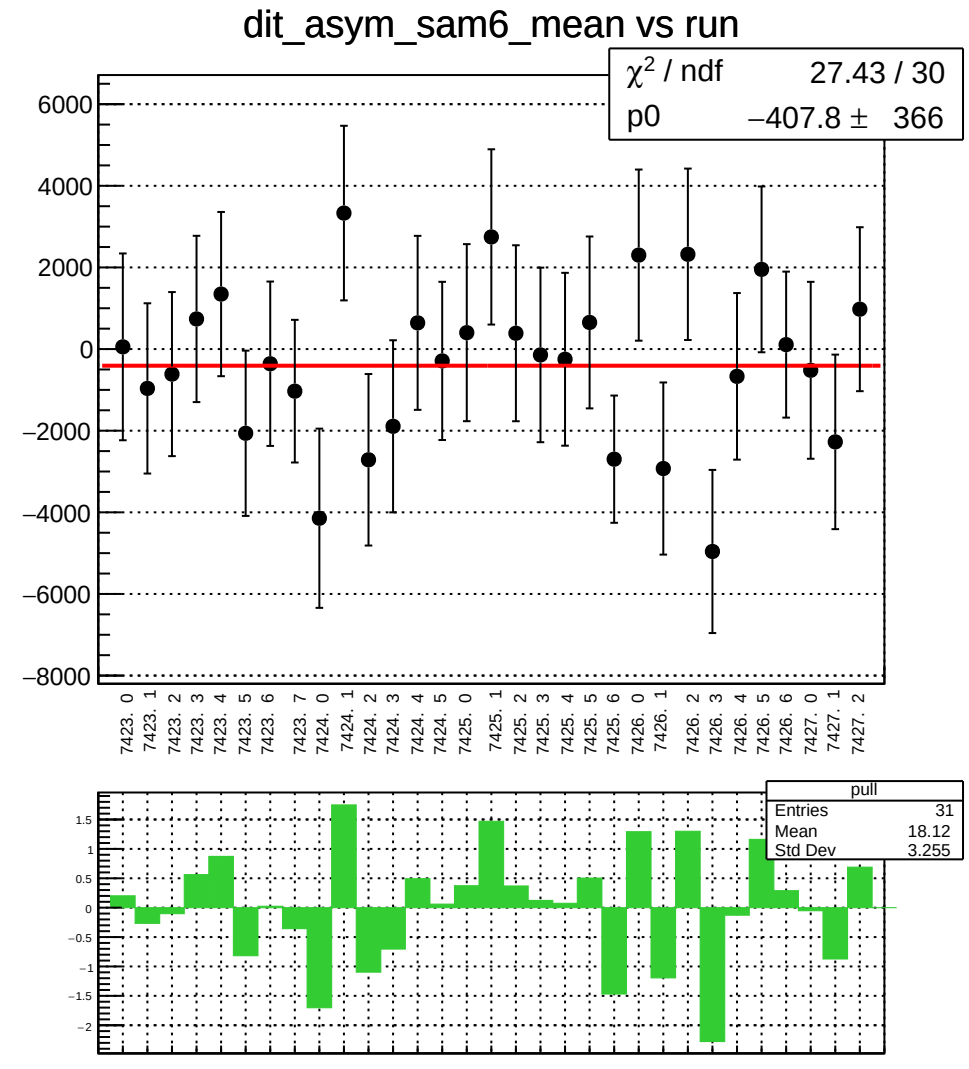
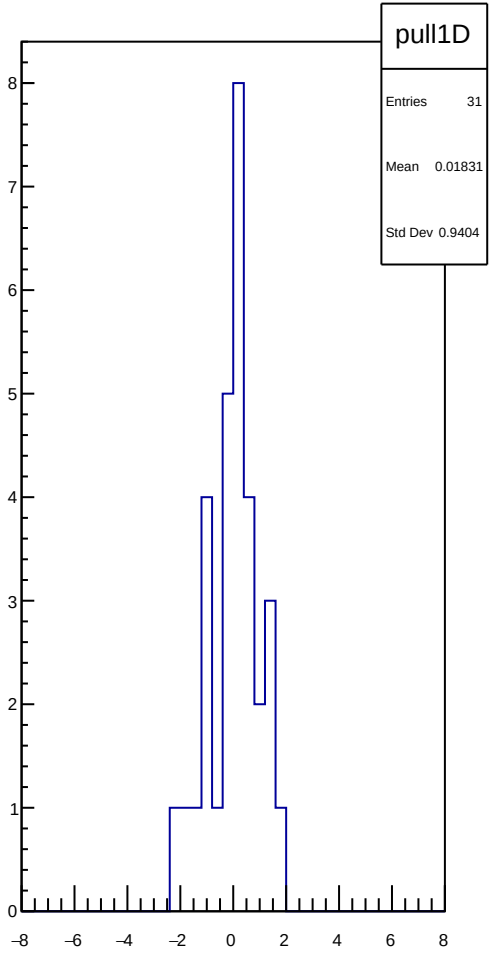
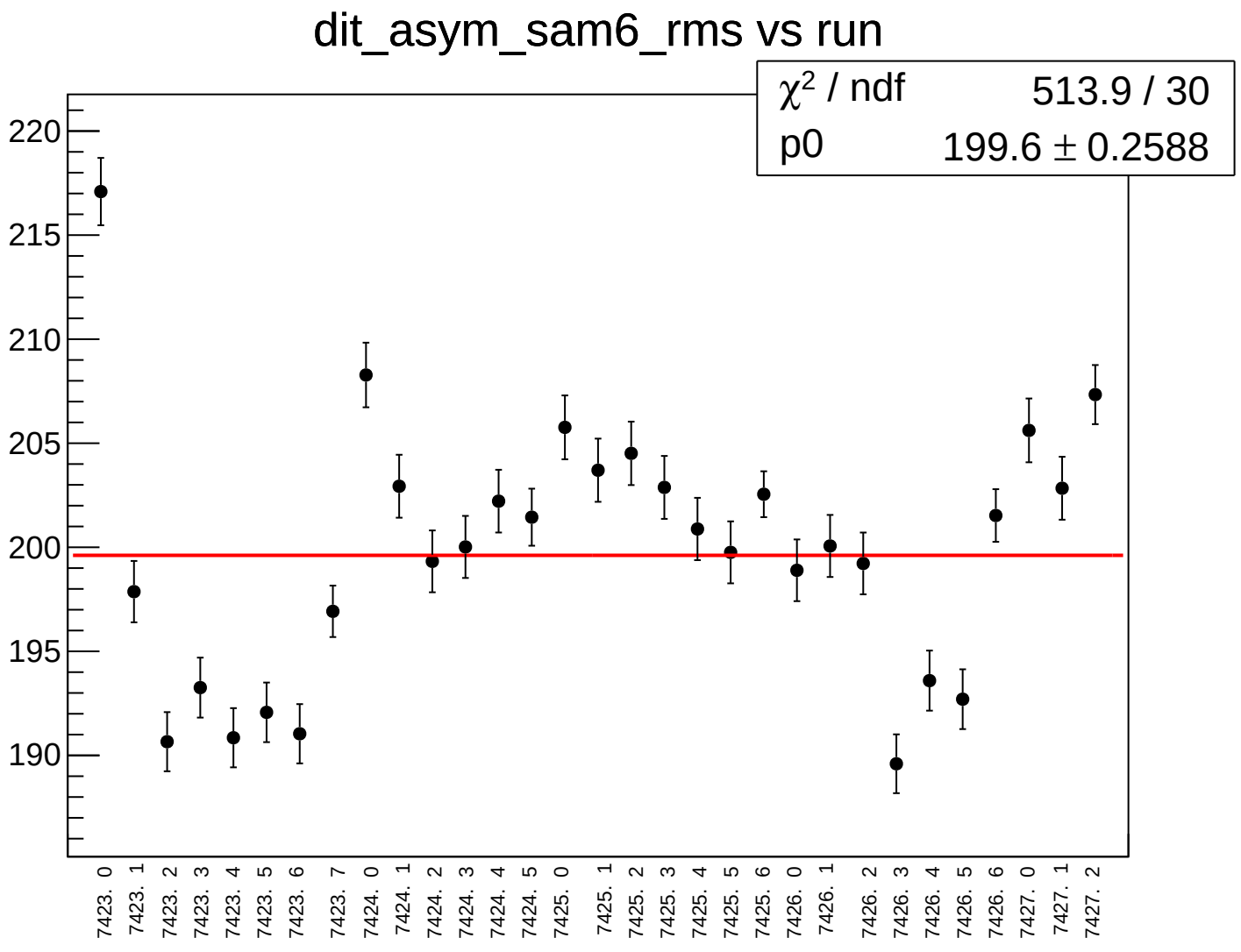
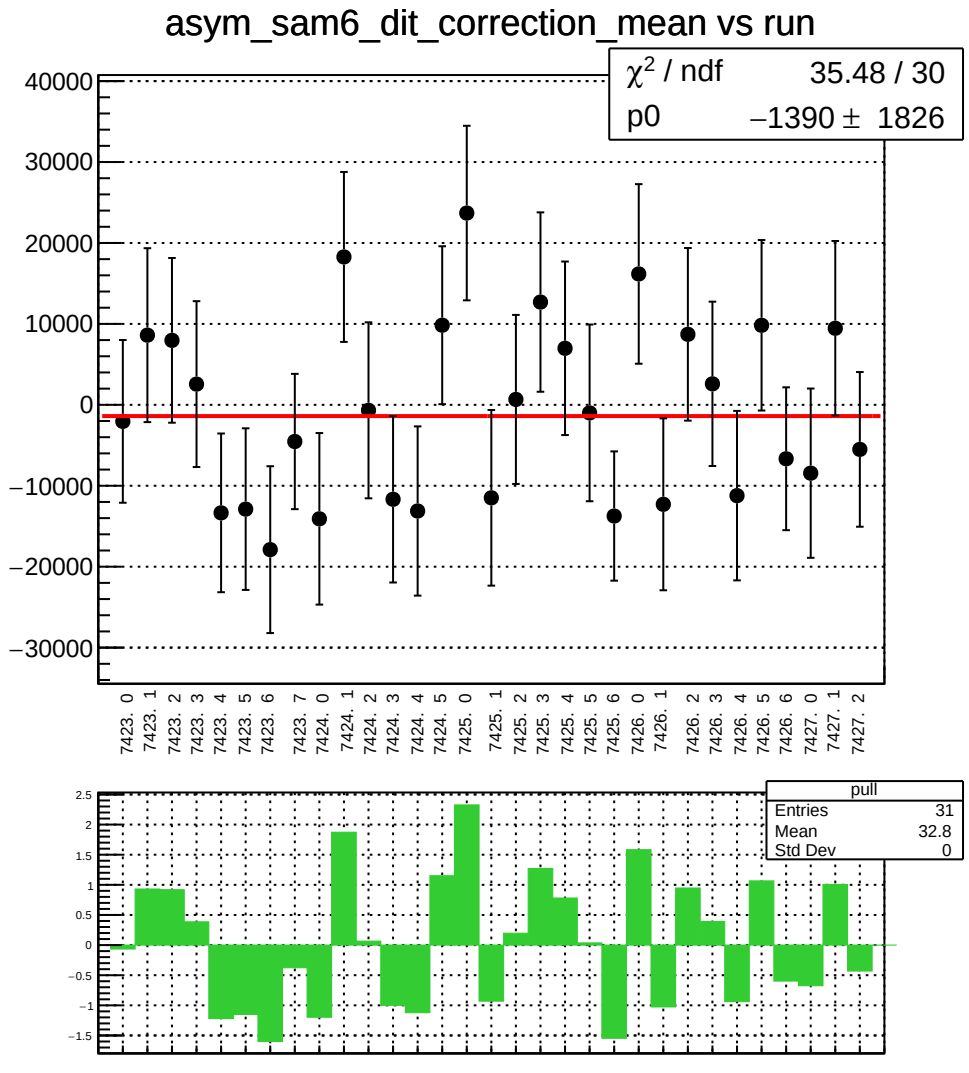
6
8

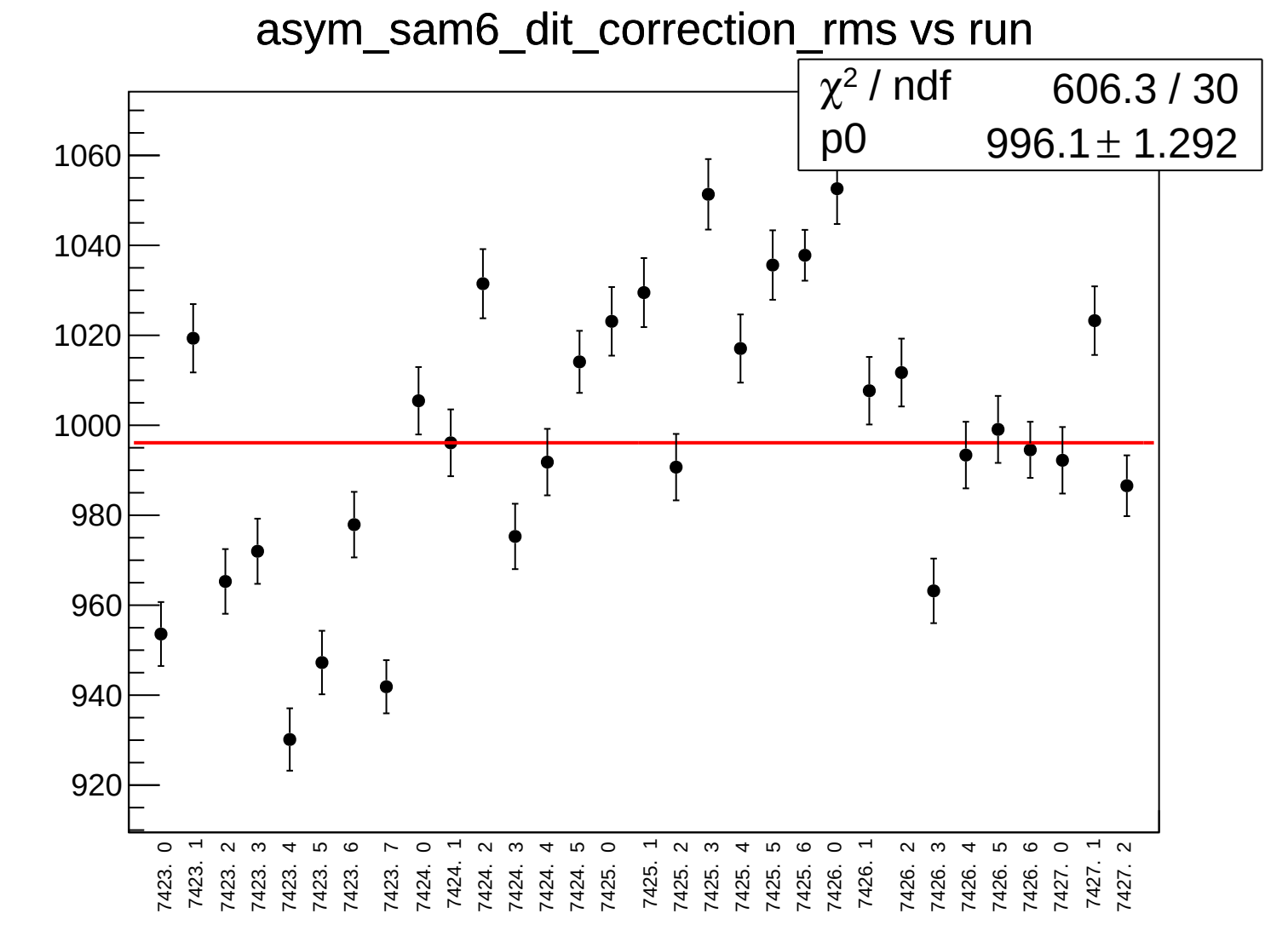

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 757.1 / 30
p0 947.8 ± 1.229
1020
1000
980
960
940
920
900
880
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


dit_asym_sam6_mean vs run
χ² / ndf 27.43 / 30
p0 −407.8 ± 366
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 18.12
Std Dev 3.255
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean 0.01831
Std Dev 0.9404
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam6_rms vs run
χ² / ndf 513.9 / 30
p0 199.6 ± 0.2588
220
215
210
205
200
195
190
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam6_dit_correction_mean vs run
χ² / ndf 35.48 / 30
p0 −1390 ± 1826
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 32.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.03397
Std Dev 1.069
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_dit_correction_rms vs run
χ² / ndf 606.3 / 30
p0 996.1 ± 1.292
1060
1040
1020
1000
980
960
940
920
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
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7425. 1
7425. 2
7425. 3
7425. 4
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7425. 6
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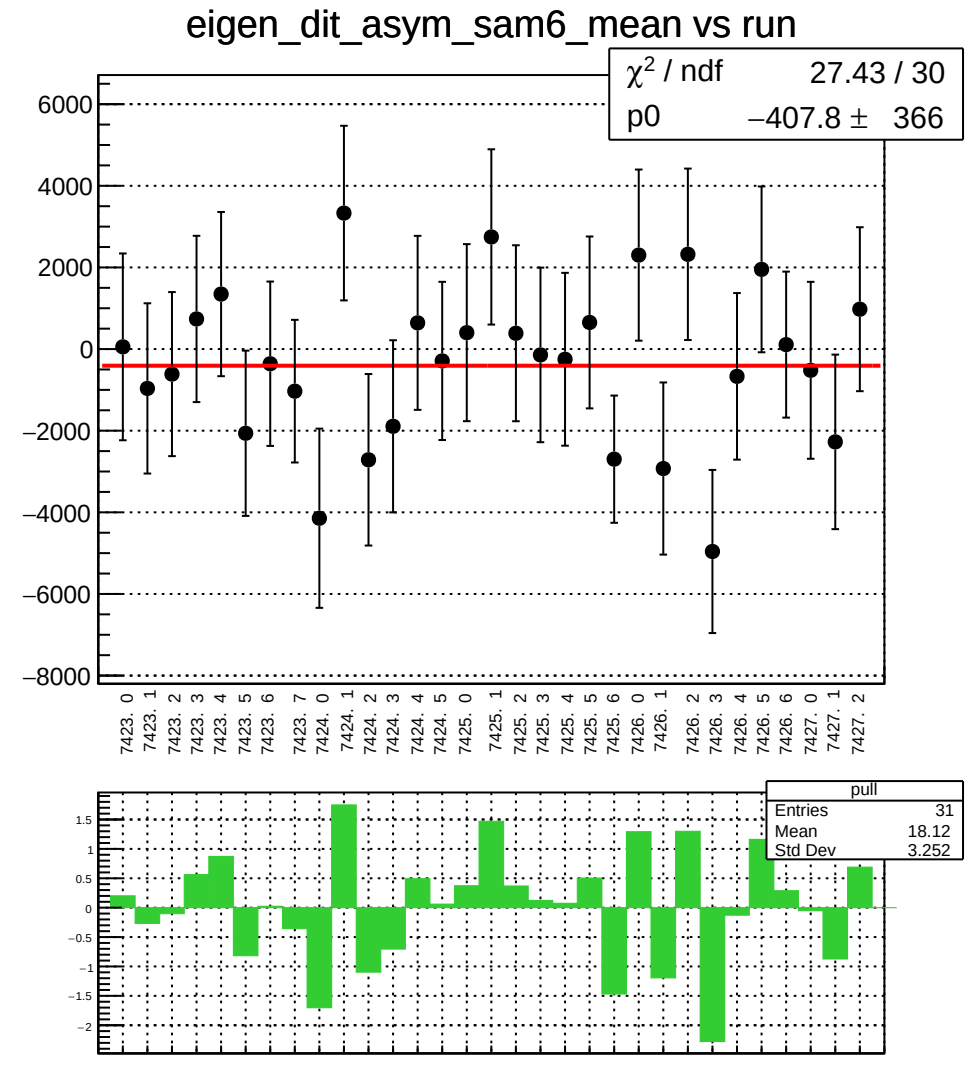
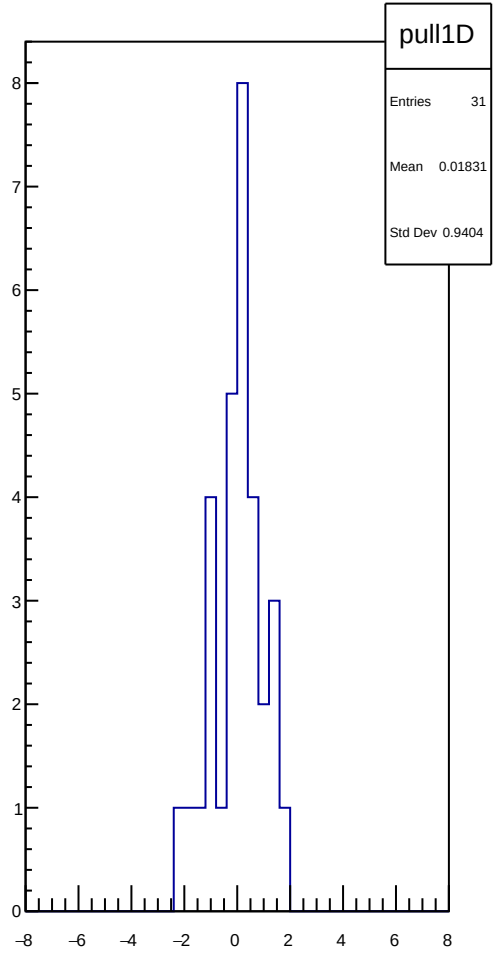
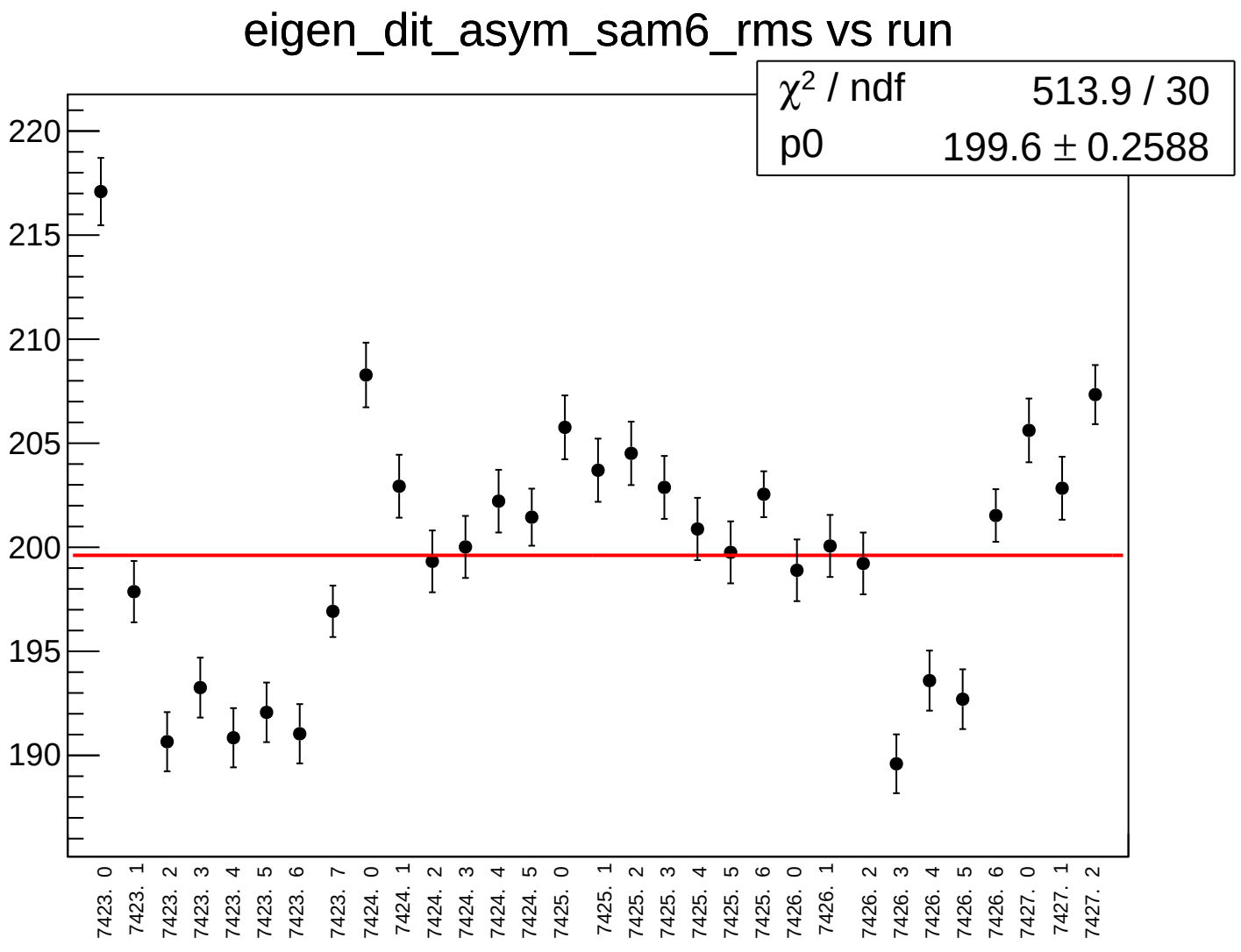

eigen_dit_asym_sam6_mean vs run
χ² / ndf 27.43 / 30
p0 −407.8 ± 366
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 18.12
Std Dev 3.252
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean 0.01831
Std Dev 0.9404
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam6_rms vs run
χ² / ndf 513.9 / 30
p0 199.6 ± 0.2588
220
215
210
205
200
195
190
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
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7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
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7425. 5
7425. 6
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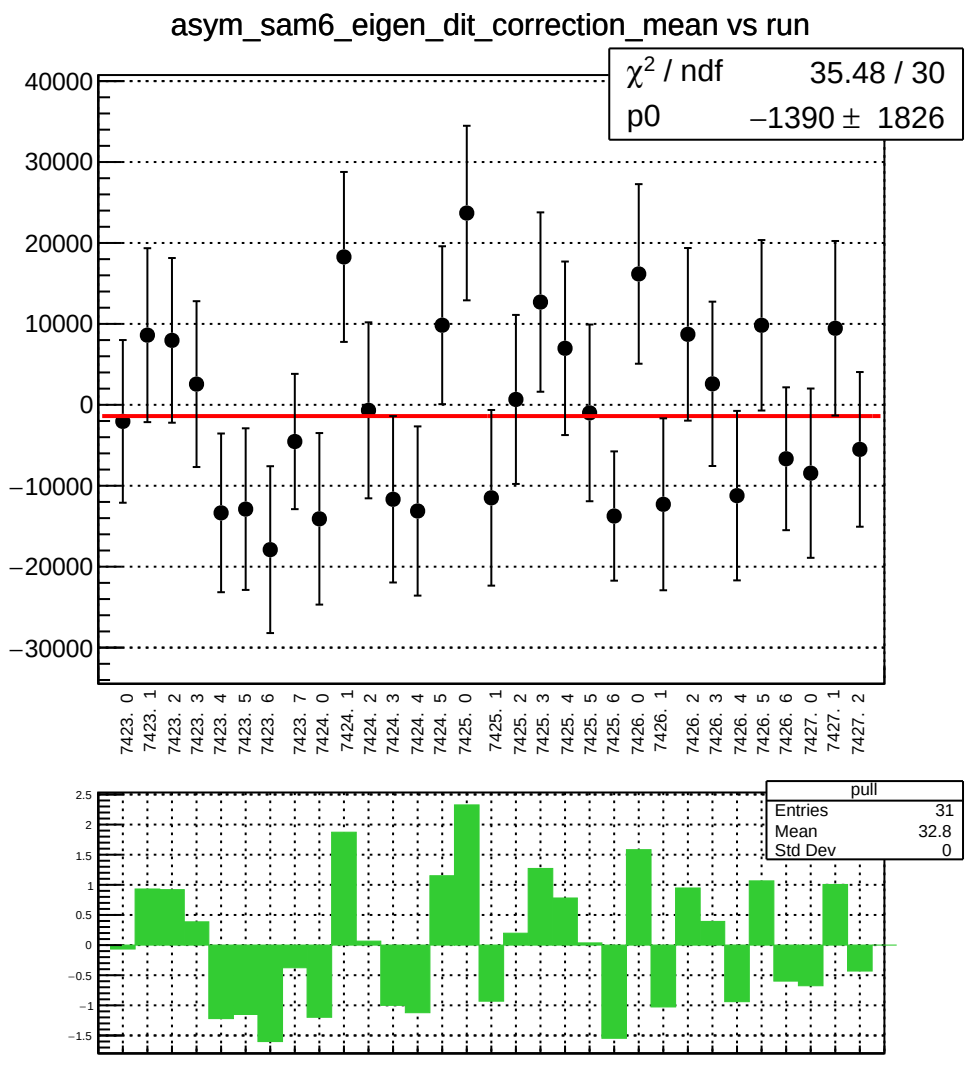
7427. 2


asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 35.48 / 30
p0 −1390 ± 1826
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
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7424. 2
7424. 3
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7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 32.8
Std Dev 0
2.5
2
1.5
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0.5
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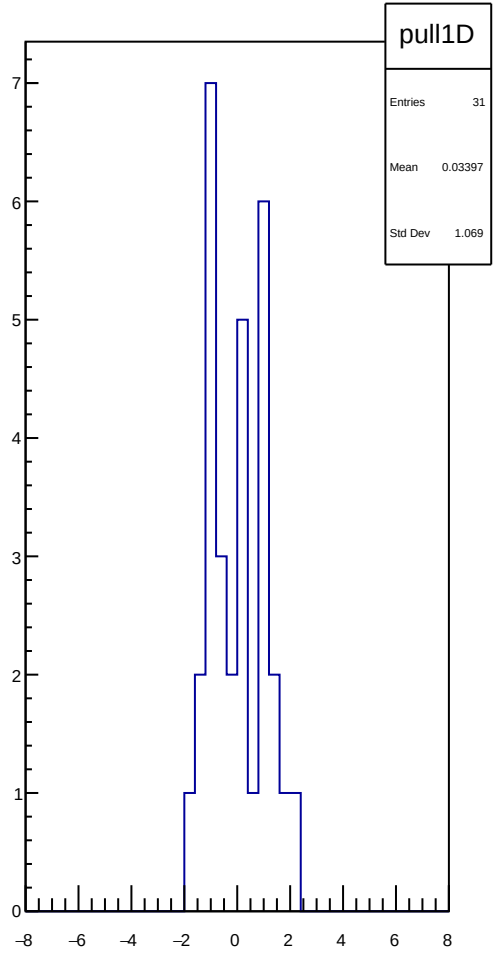
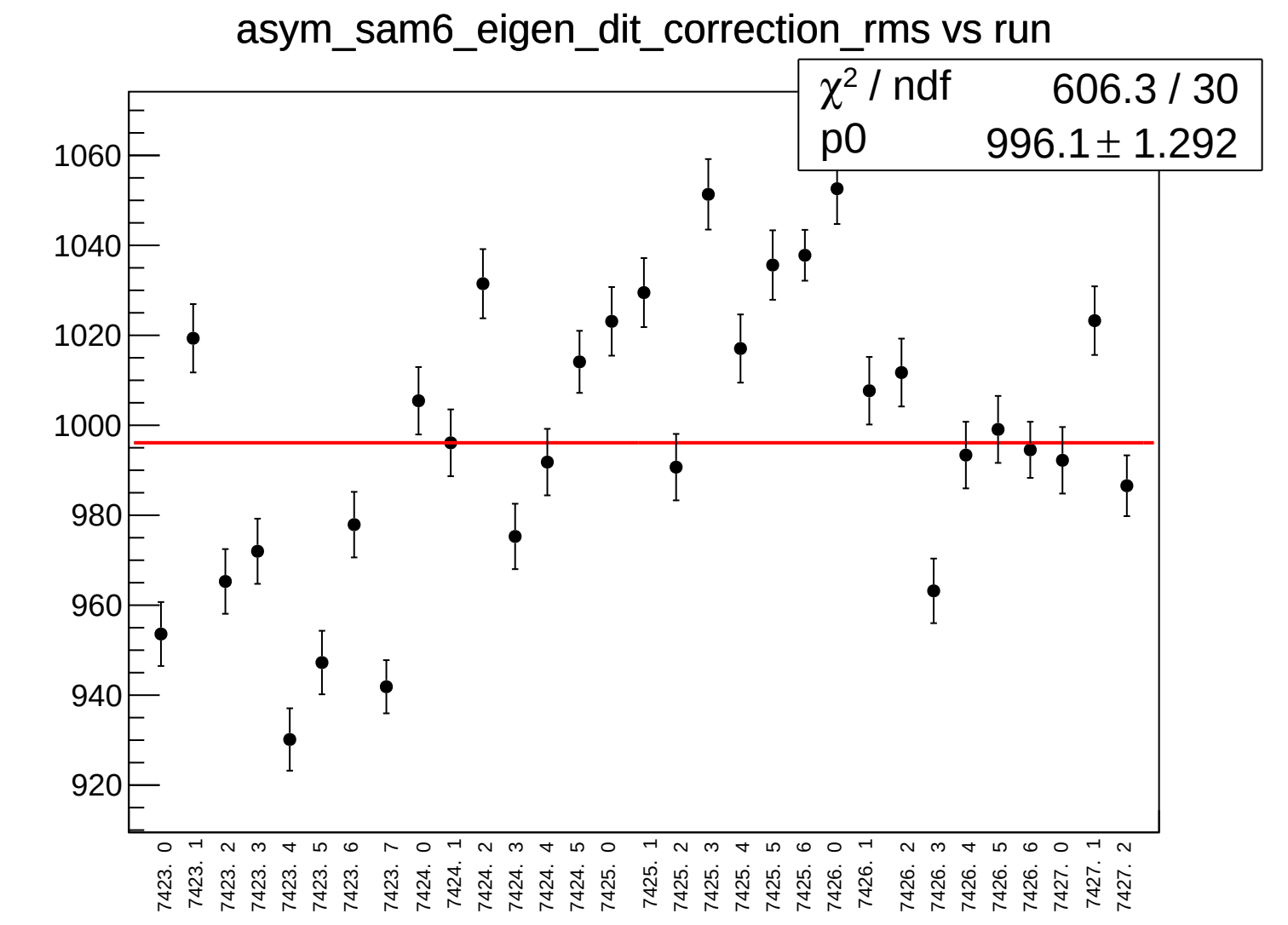
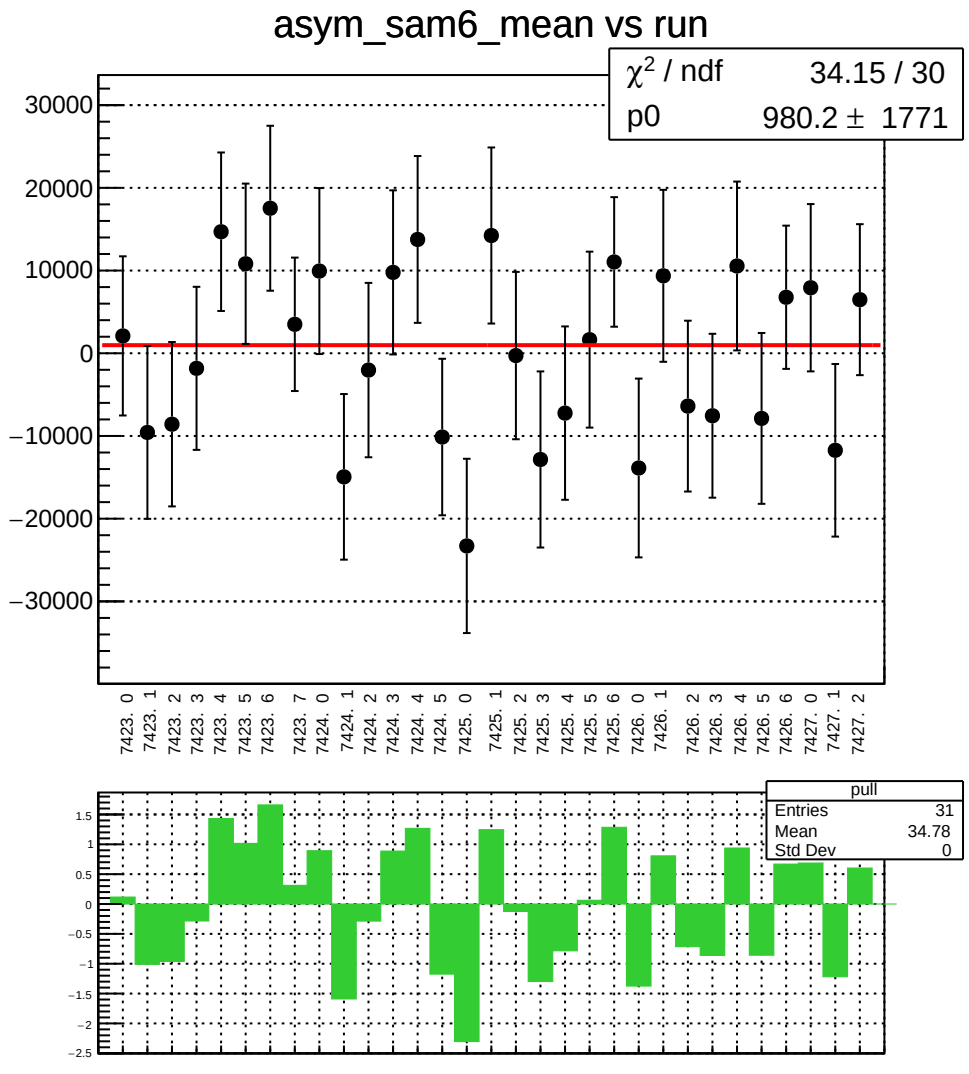
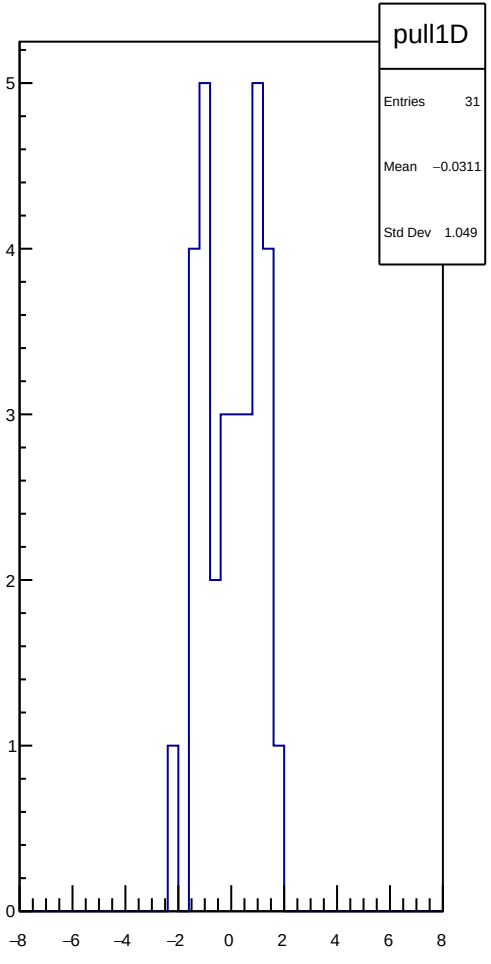
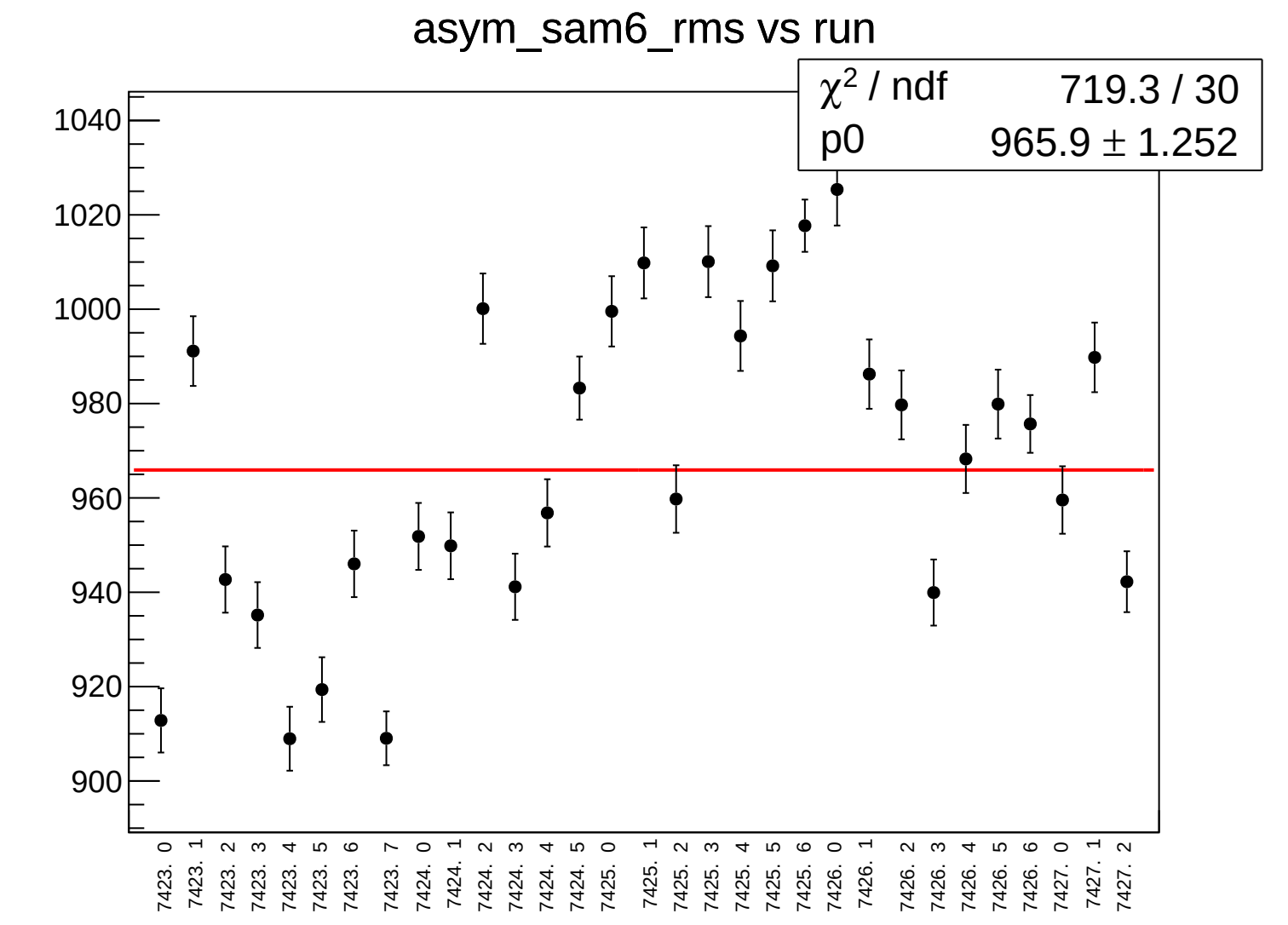
−0.5
−1
−1.5

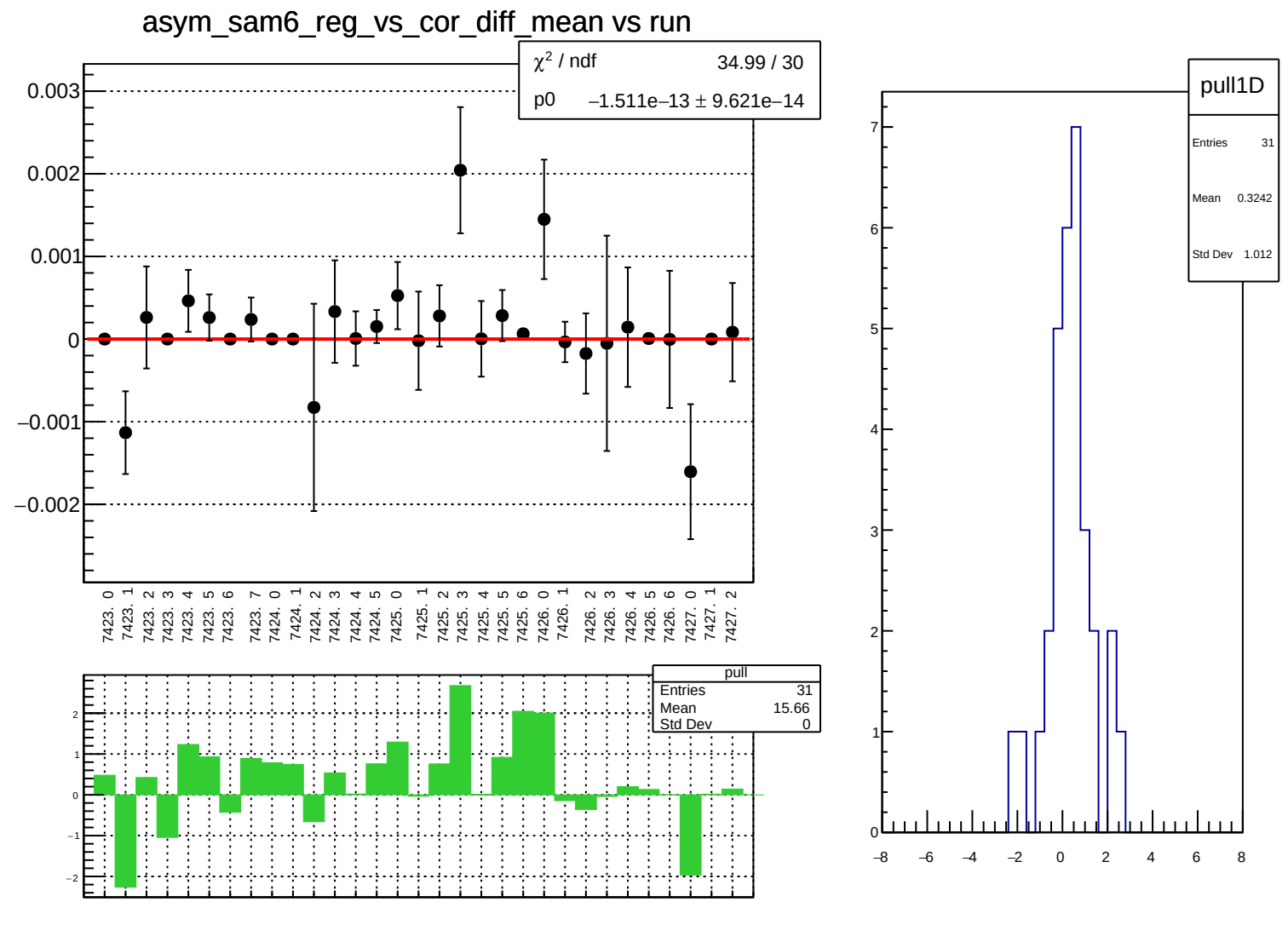

pull1D
Entries 31
Mean 0.03397
Std Dev 1.069
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

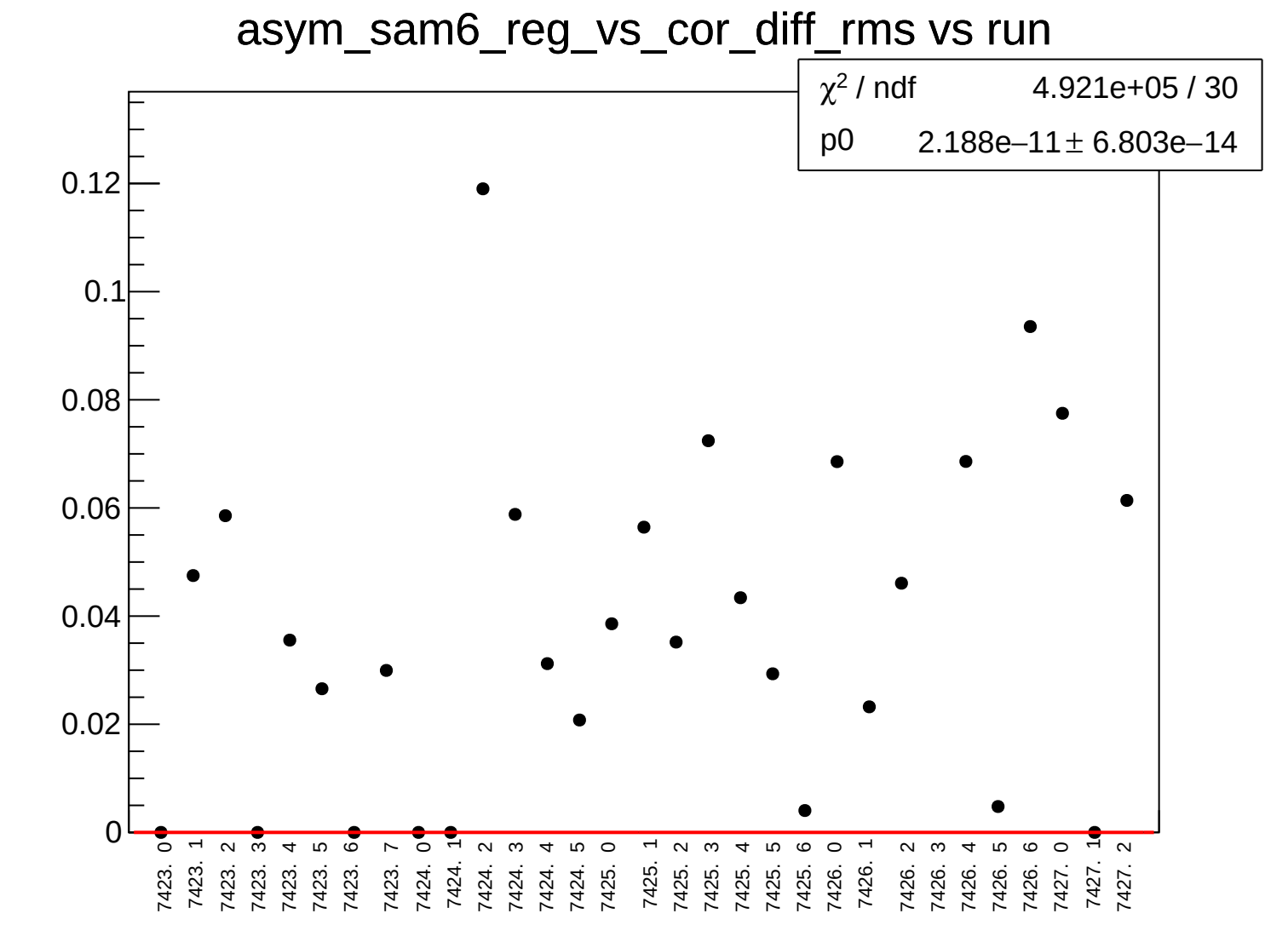

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 606.3 / 30
p0 996.1 ± 1.292
1060
1040
1020
1000
980
960
940
920
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

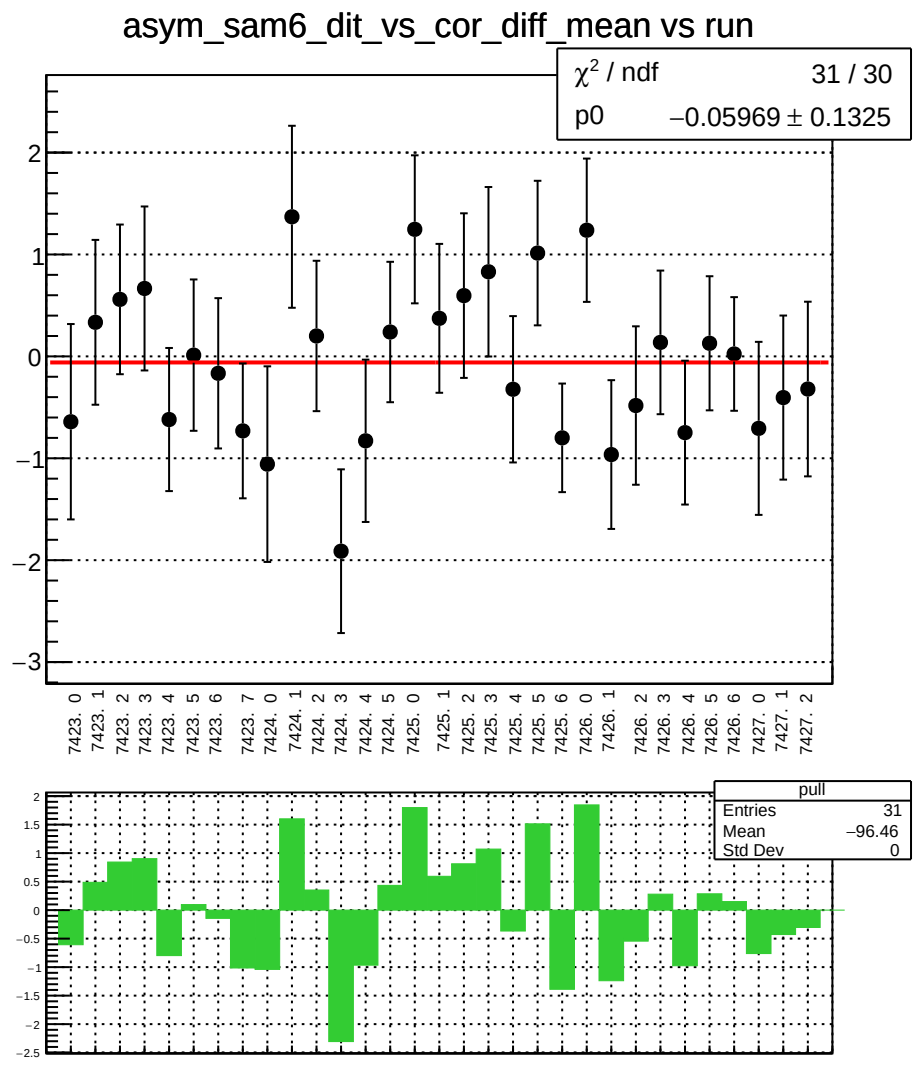

asym_sam6_mean vs run
χ² / ndf 34.15 / 30
p0 980.2 ± 1771
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 34.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

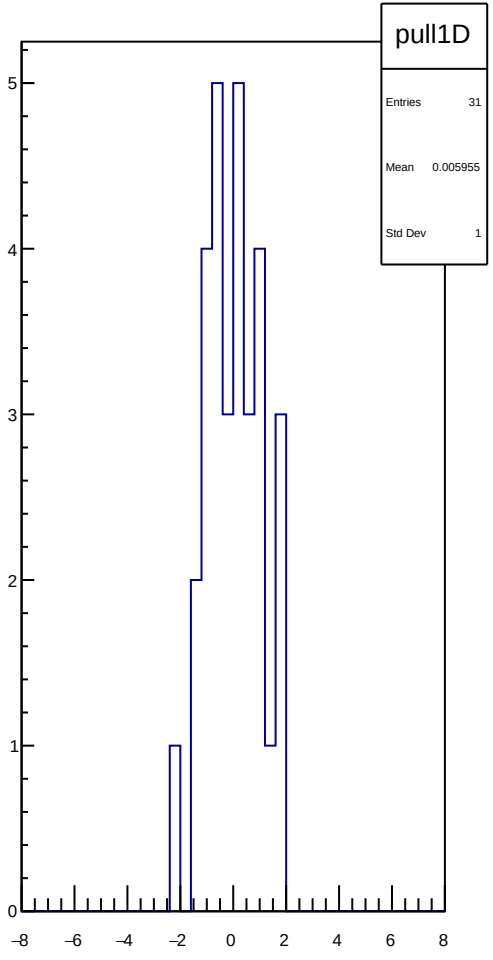

pull1D
Entries 31
Mean −0.0311
Std Dev 1.049
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

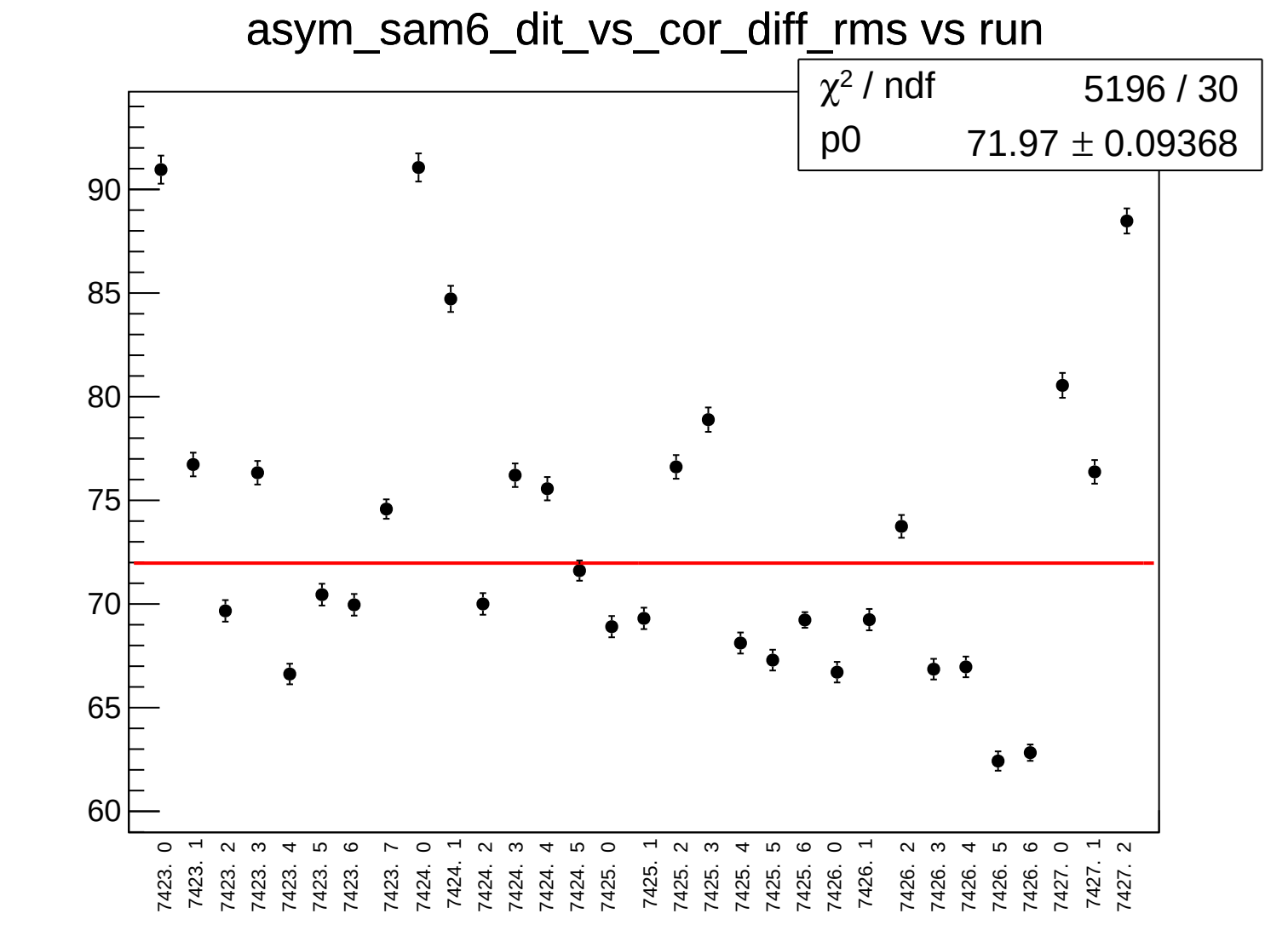

asym_sam6_rms vs run
χ² / ndf 719.3 / 30
p0 965.9 ± 1.252
1040
1020
1000
980
960
940
920
900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

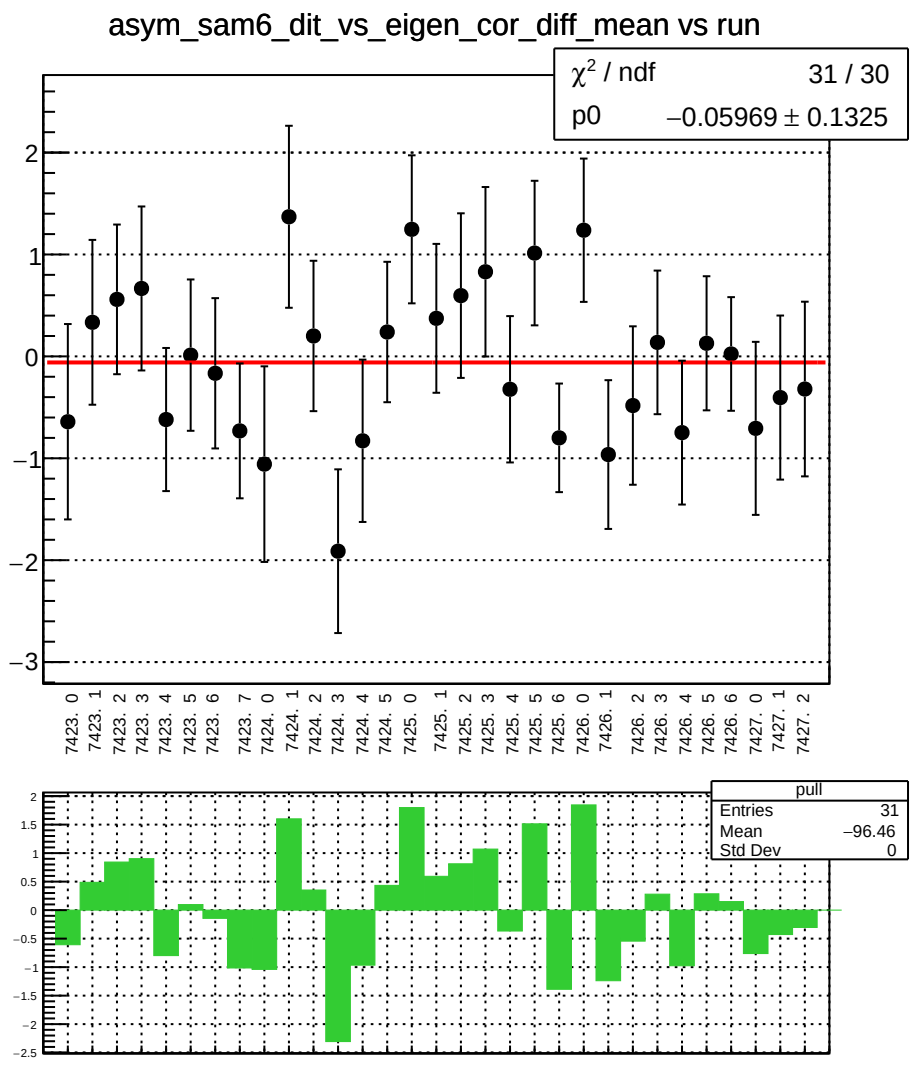

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 34.99 / 30
p0 −1.511e−13 ± 9.621e−14
0.003
0.002
0.001
0
−0.001
−0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.66
Std Dev 0
pull1D
Entries 31
Mean 0.3242
Std Dev 1.012

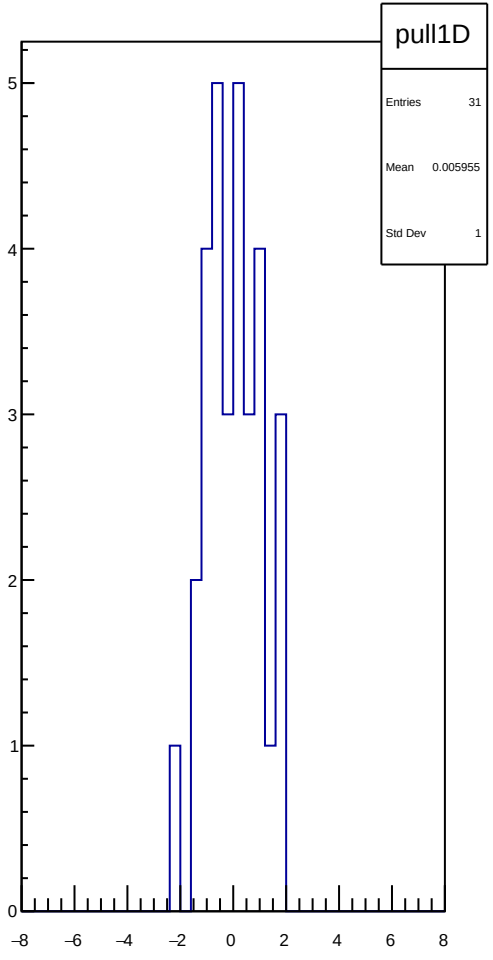

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 4.921e+05 / 30
p0 2.188e−11 ± 6.803e−14
0.12
0.1
0.08
0.06
0.04
0.02
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

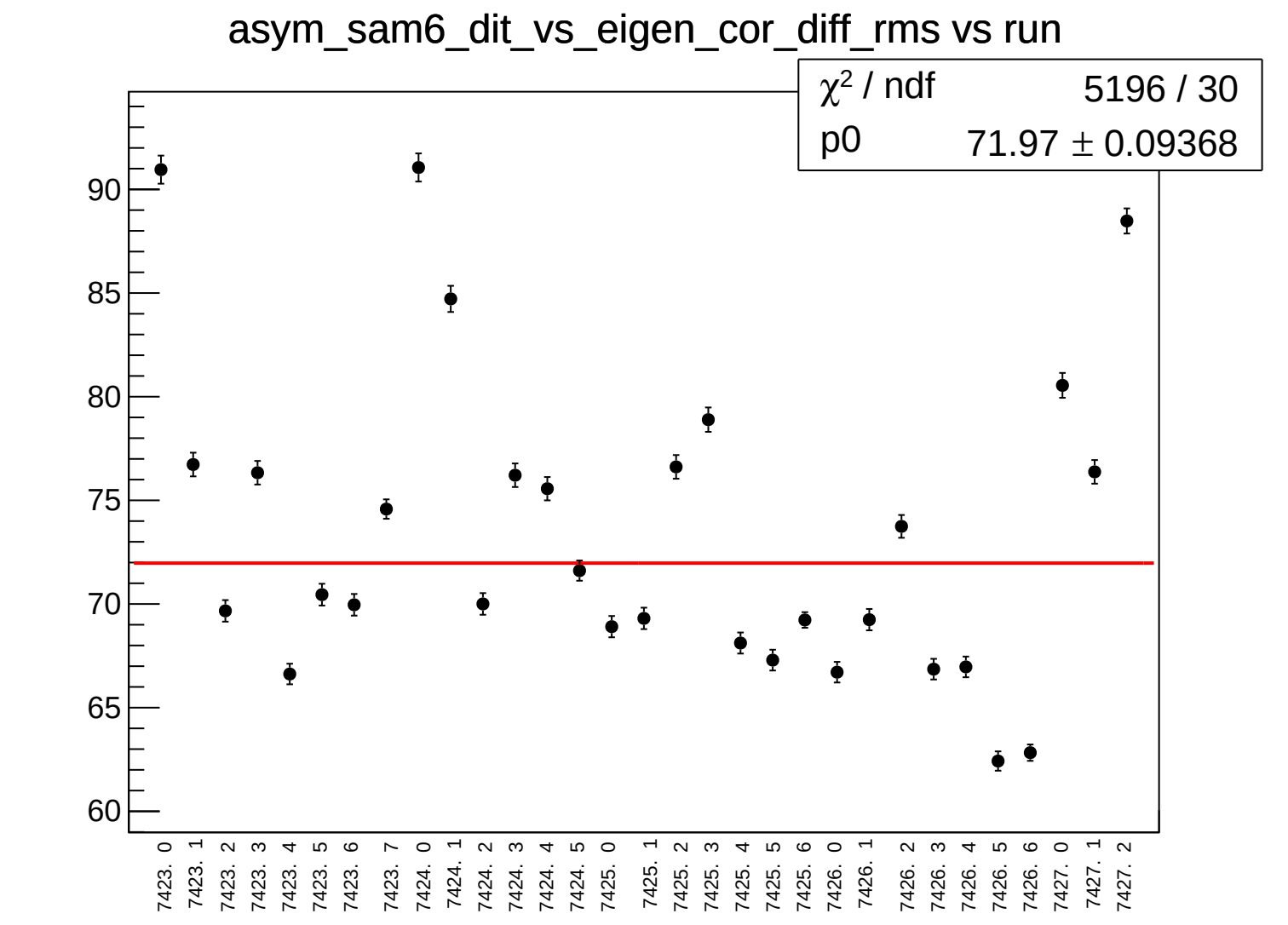

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 31 / 30
p0 −0.05969 ± 0.1325
pull
Entries 31
Mean −96.46
Std Dev 0

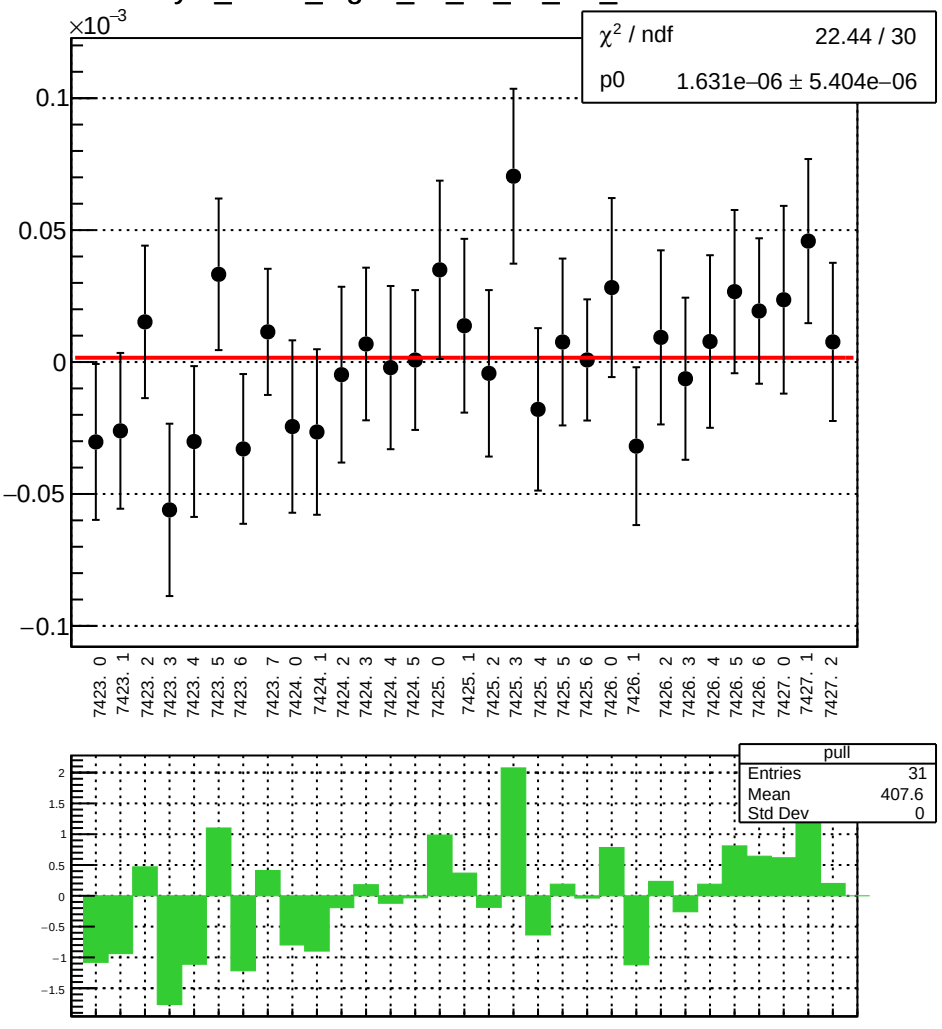

pull1D
Entries 31
Mean 0.005955
Std Dev 1

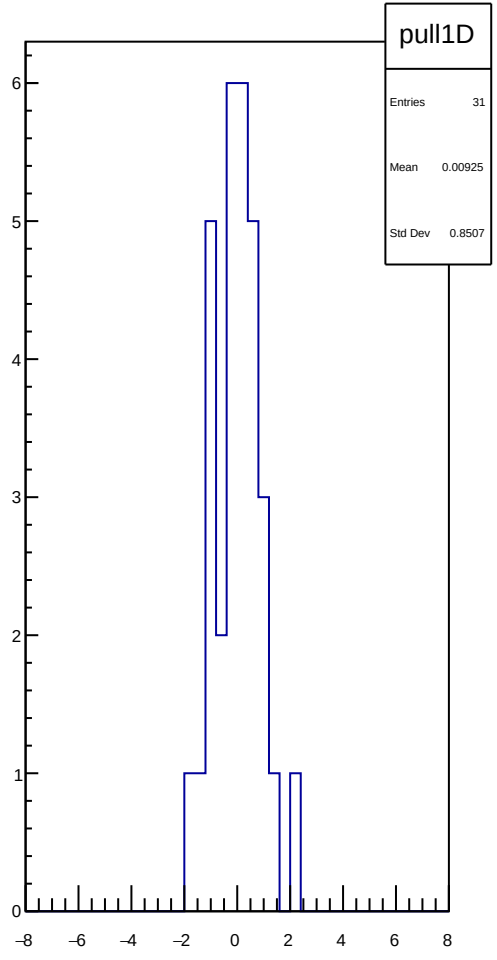

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 5196 / 30
p0 71.97 ± 0.09368
90
85
80
75
70
65
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

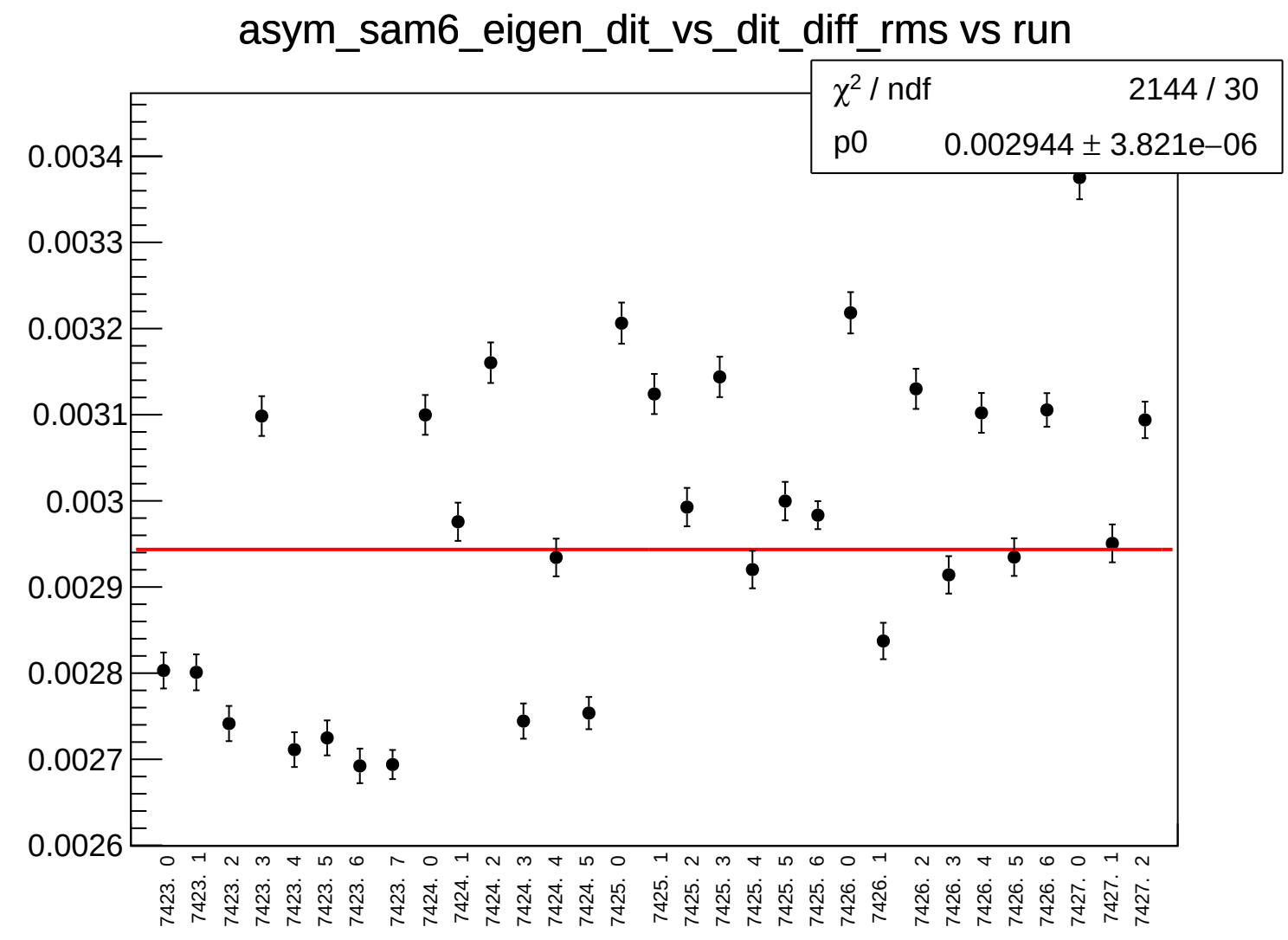

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31 / 30
p0 −0.05969 ± 0.1325
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −96.46
Std Dev 0

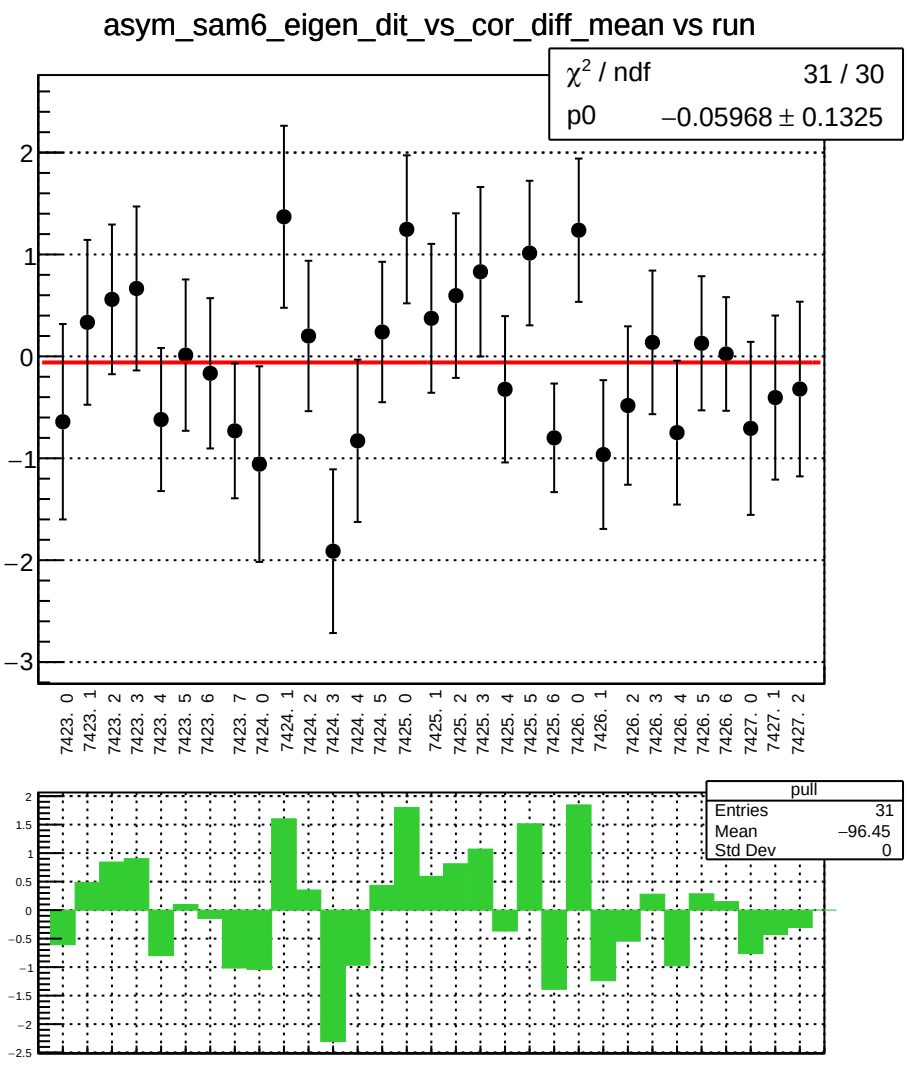

pull1D
Entries 31
Mean 0.005955
Std Dev 1

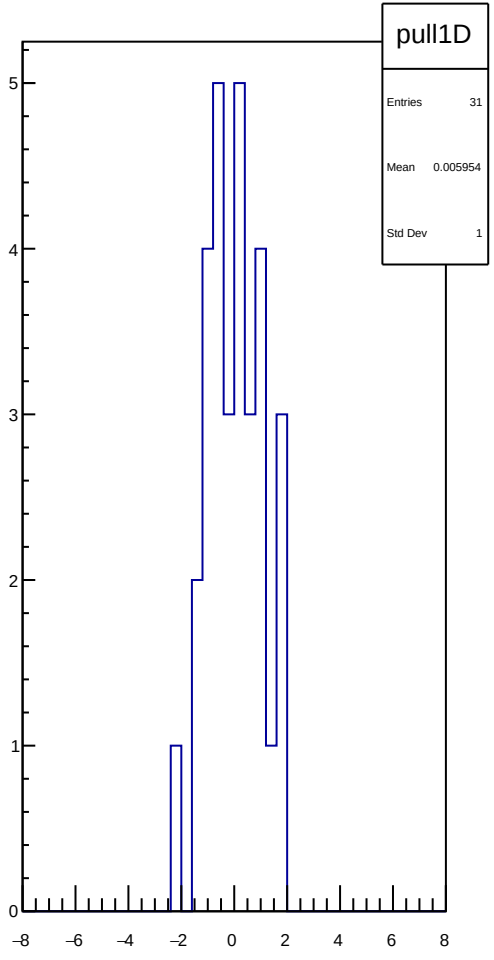

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5196 / 30
p0 71.97 ± 0.09368
90
85
80
75
70
65
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

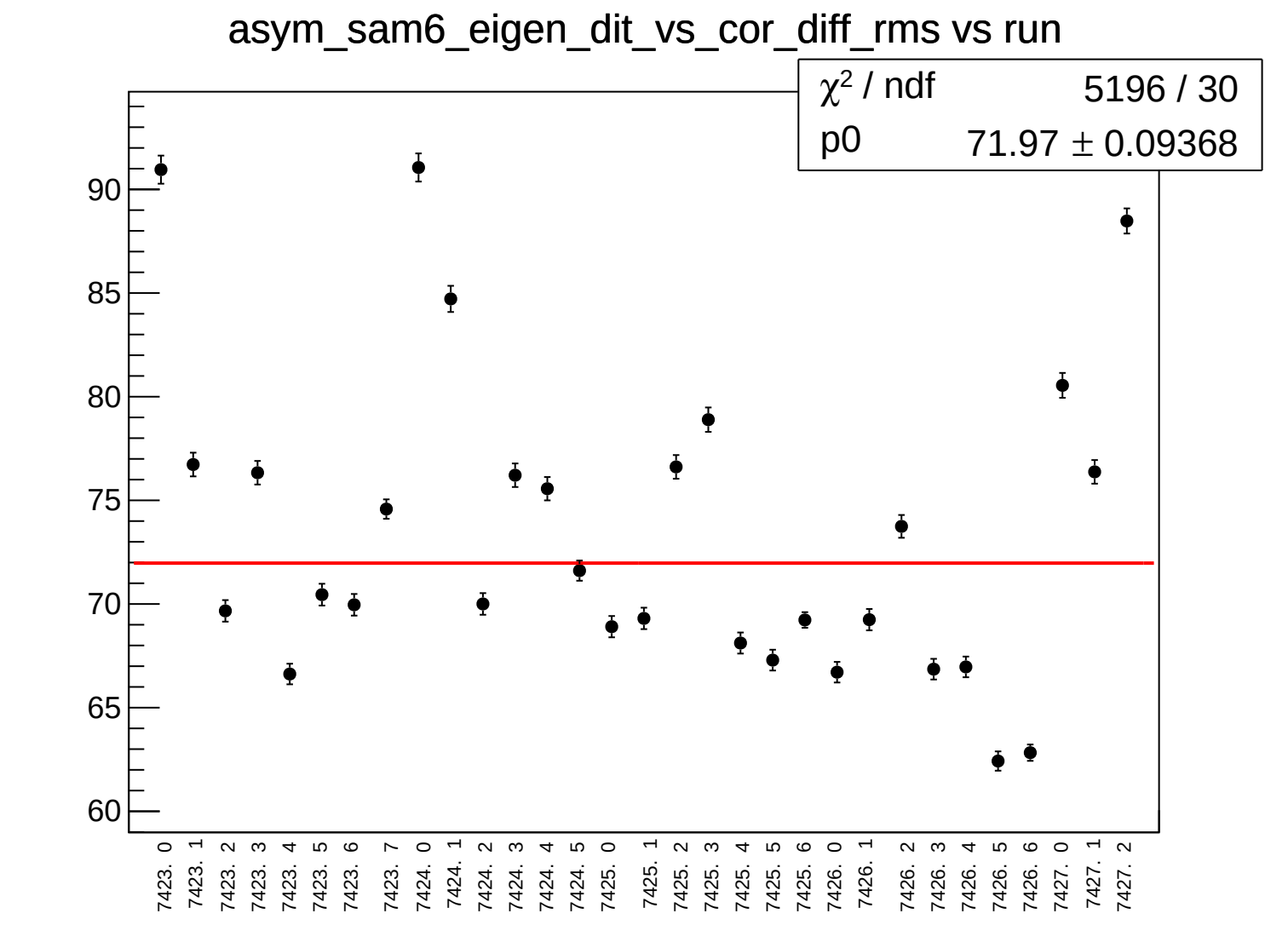

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 22.44 / 30
p0 1.631e−06 ± 5.404e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 407.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean 0.00925
Std Dev 0.8507
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

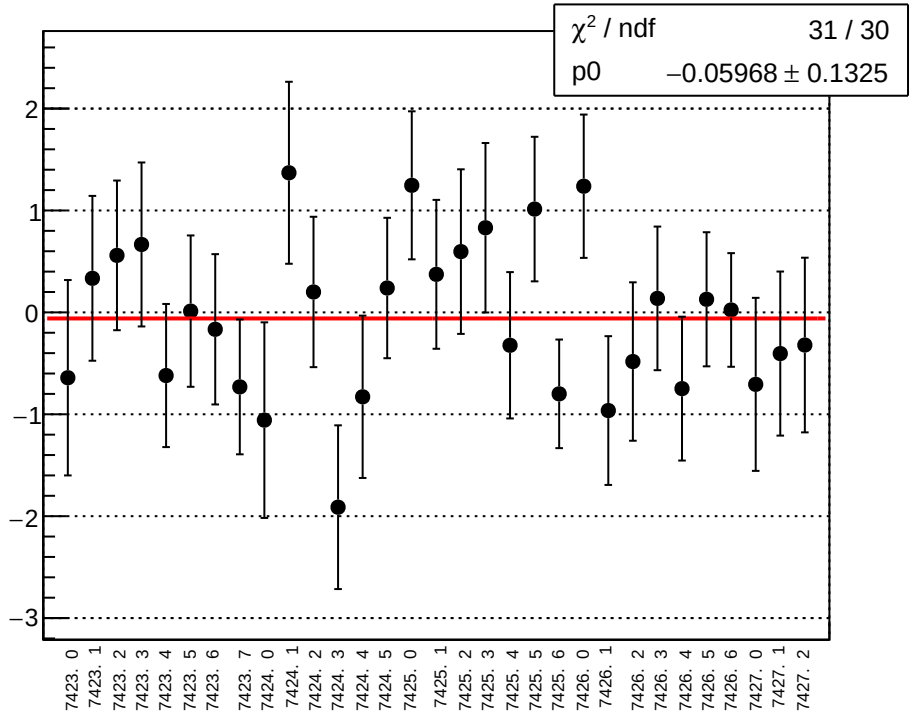

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2144 / 30
p0 0.002944 ± 3.821e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

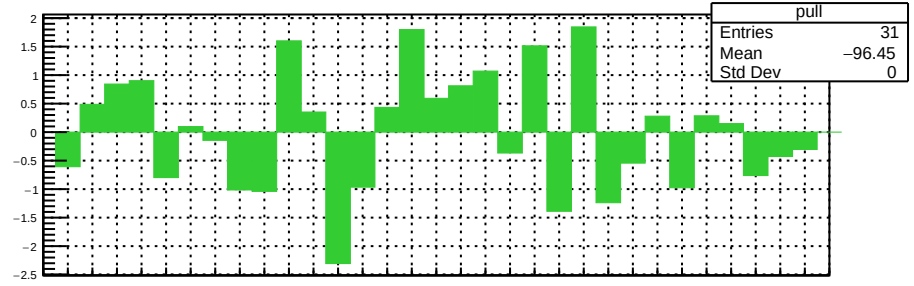

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31 / 30
p0 −0.05968 ± 0.1325
pull
Entries 31
Mean −96.45
Std Dev 0

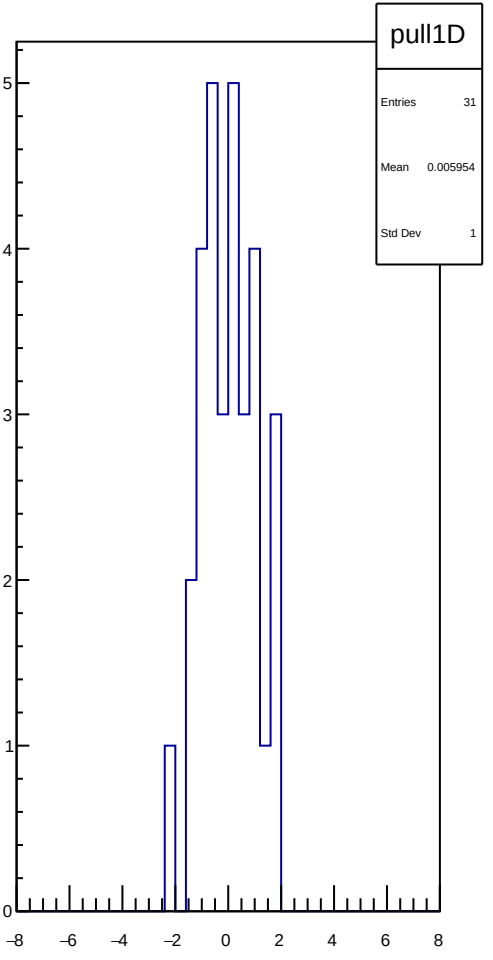

pull1D
Entries 31
Mean 0.005954
Std Dev 1

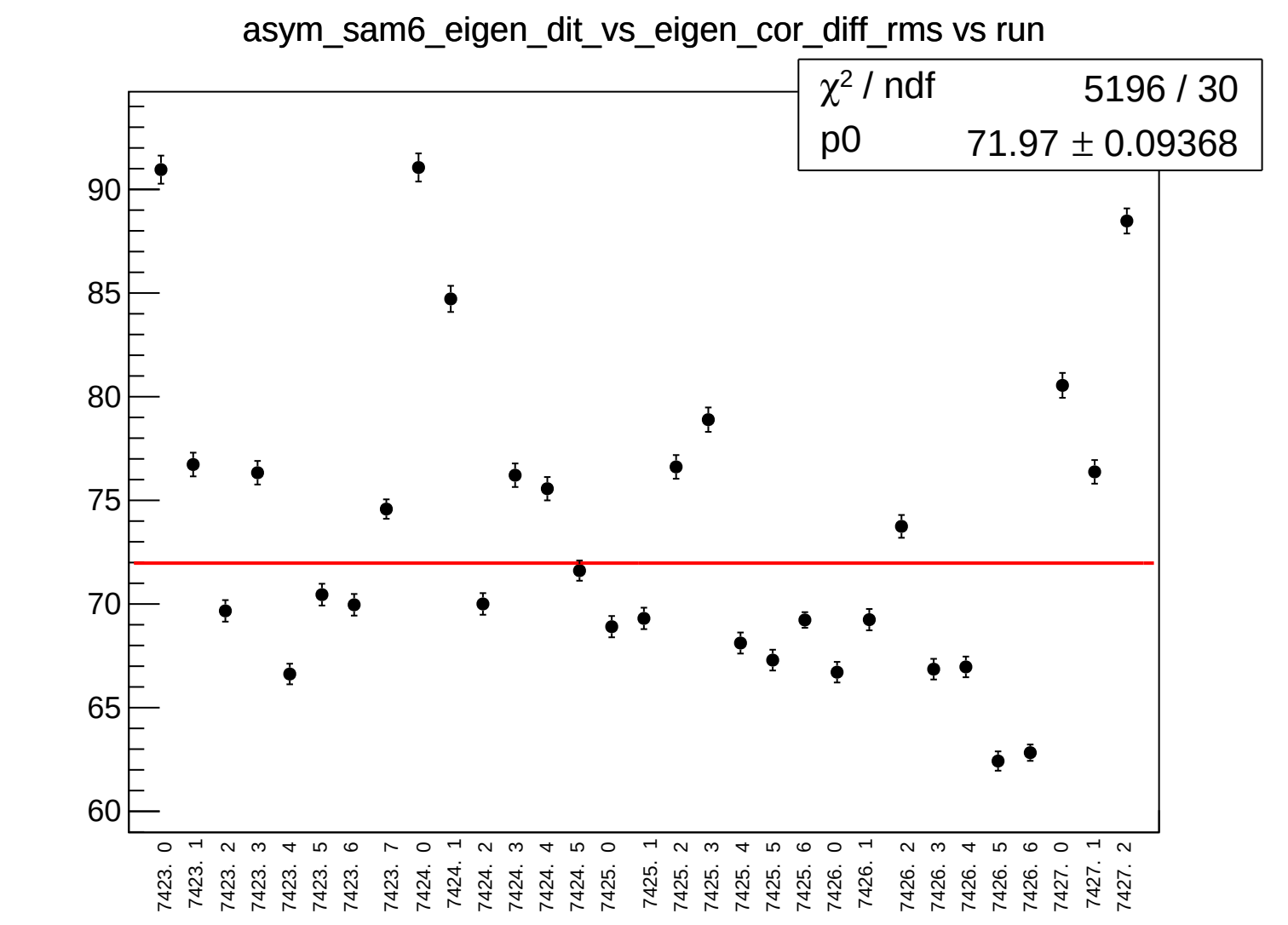

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5196 / 30
p0 71.97 ± 0.09368
90
85
80
75
70
65
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

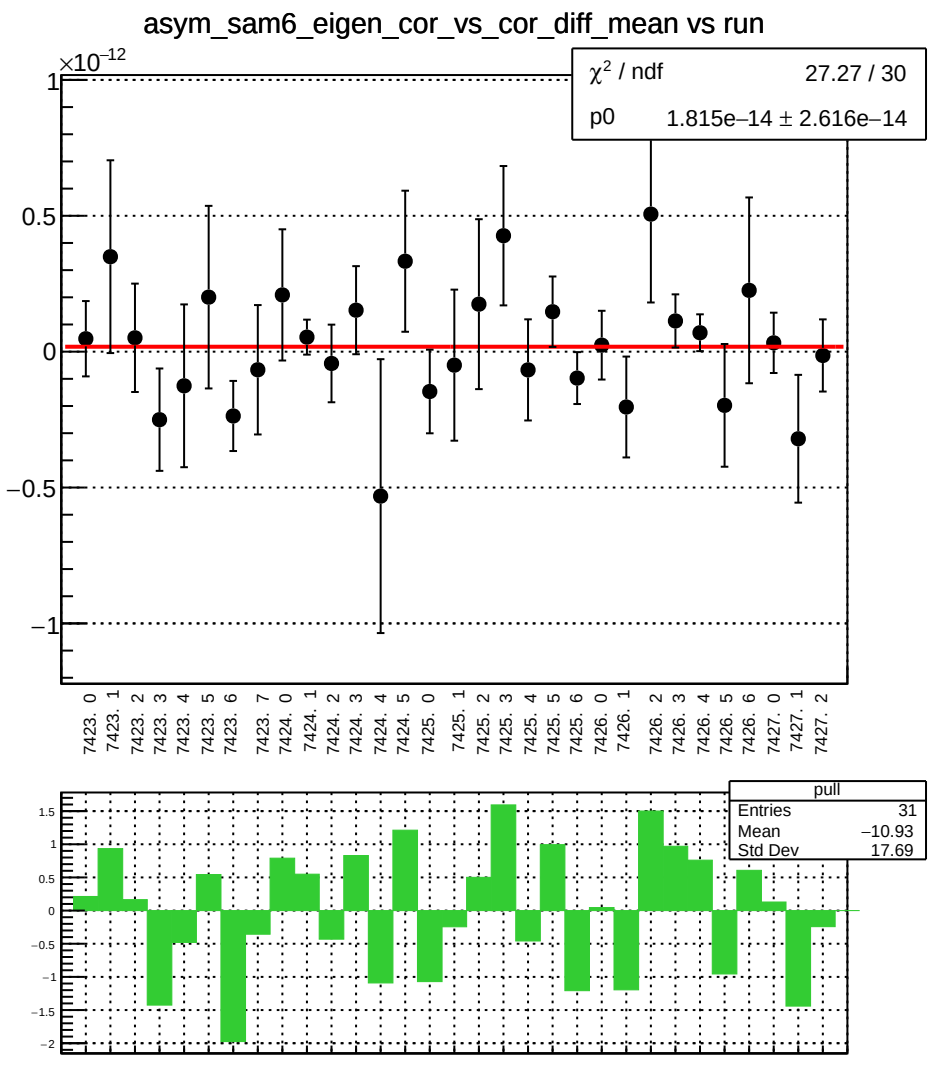
asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run

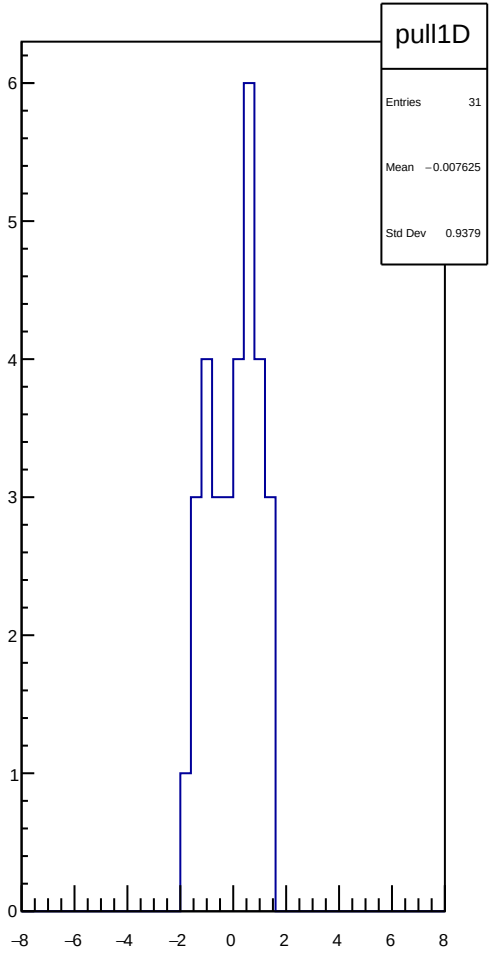


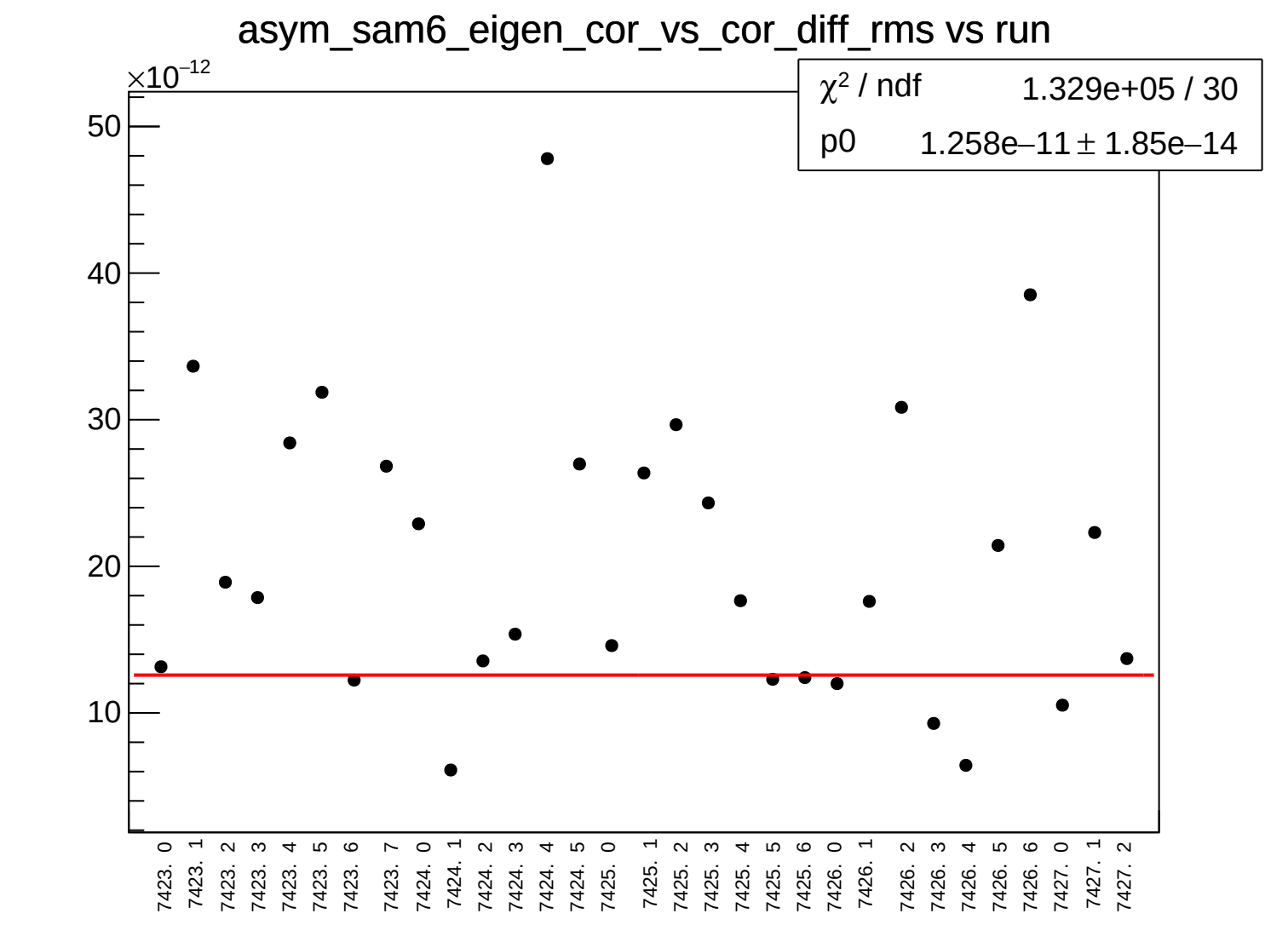


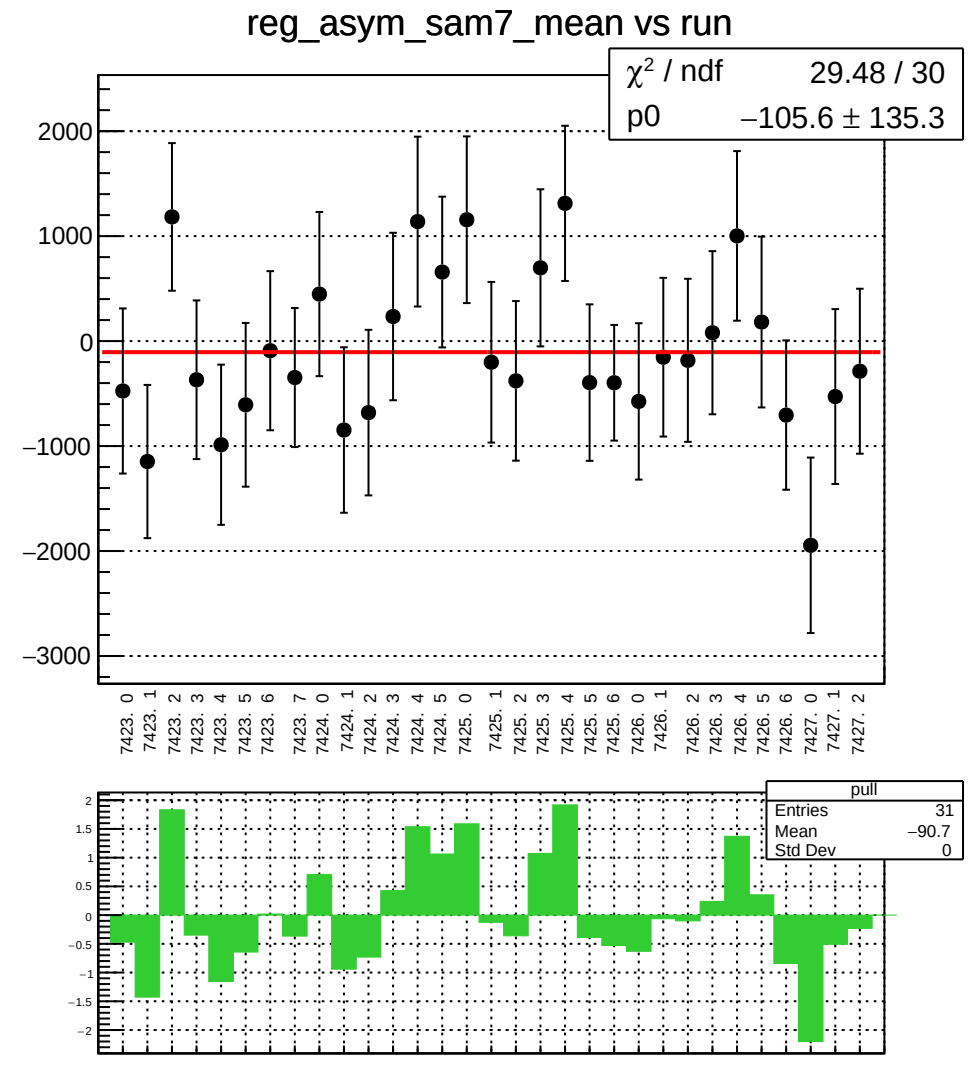


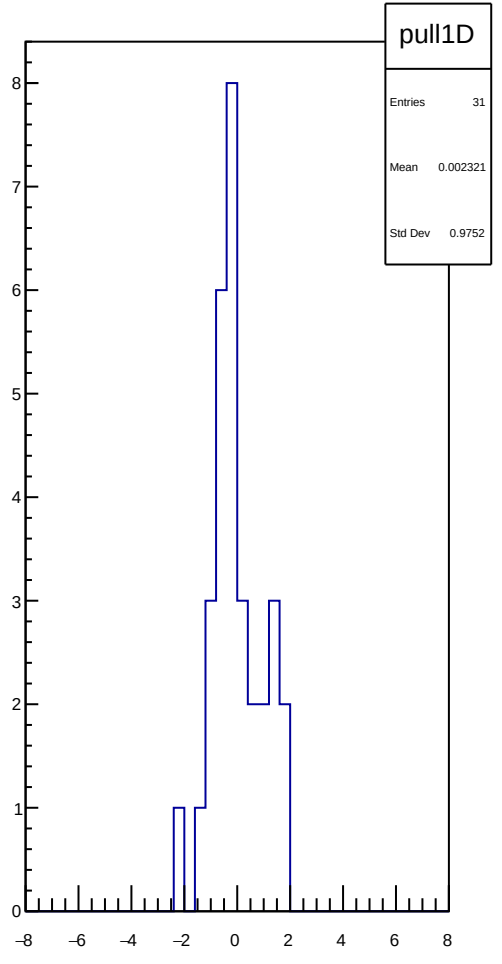

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5196 / 30
p0 71.97 ± 0.09368
90
85
80
75
70
65
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

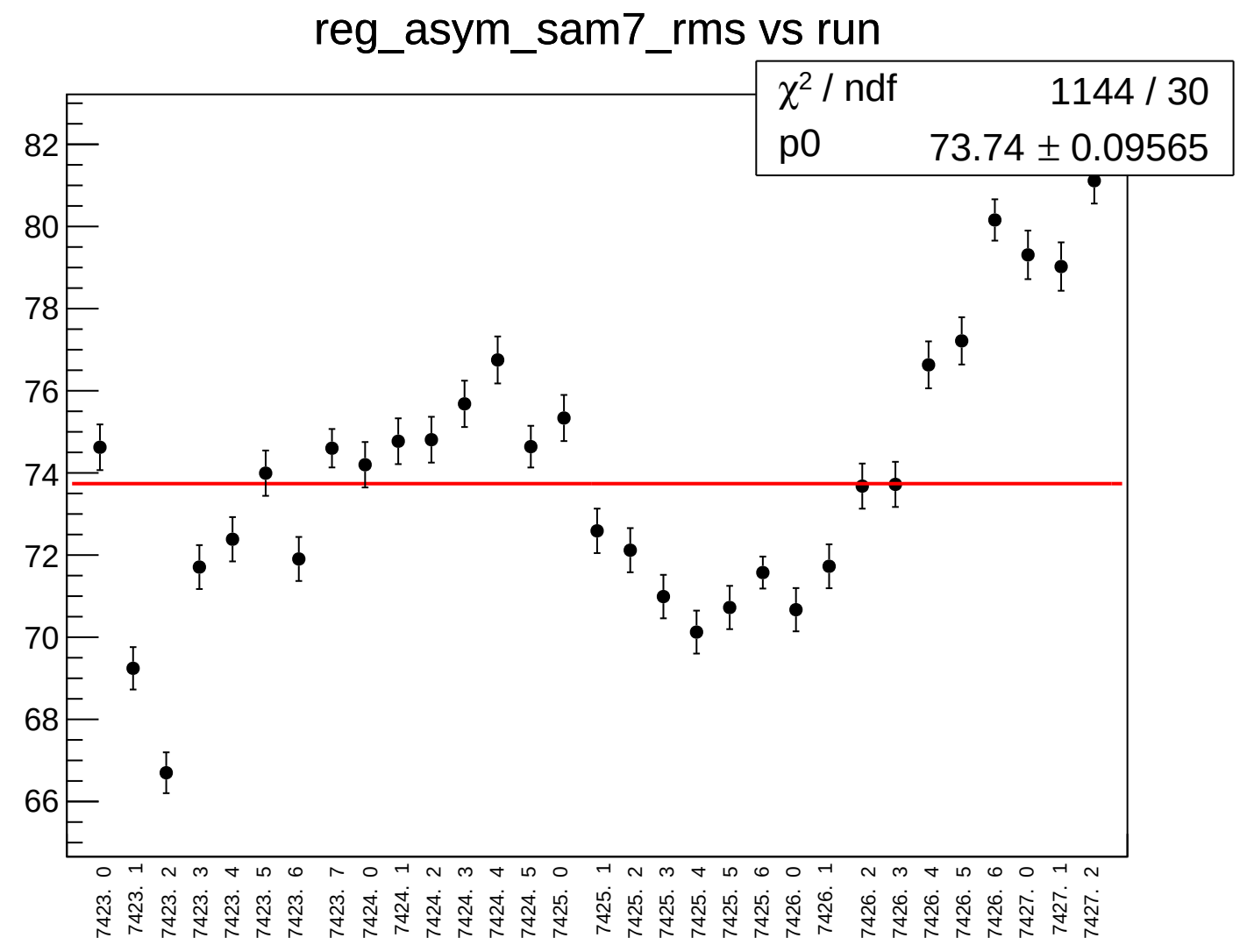

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.27 / 30
p0 1.815e−14 ± 2.616e−14
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −10.93
Std Dev 17.69
1.5
1
0.5
0
−0.5
−1
−1.5
−2

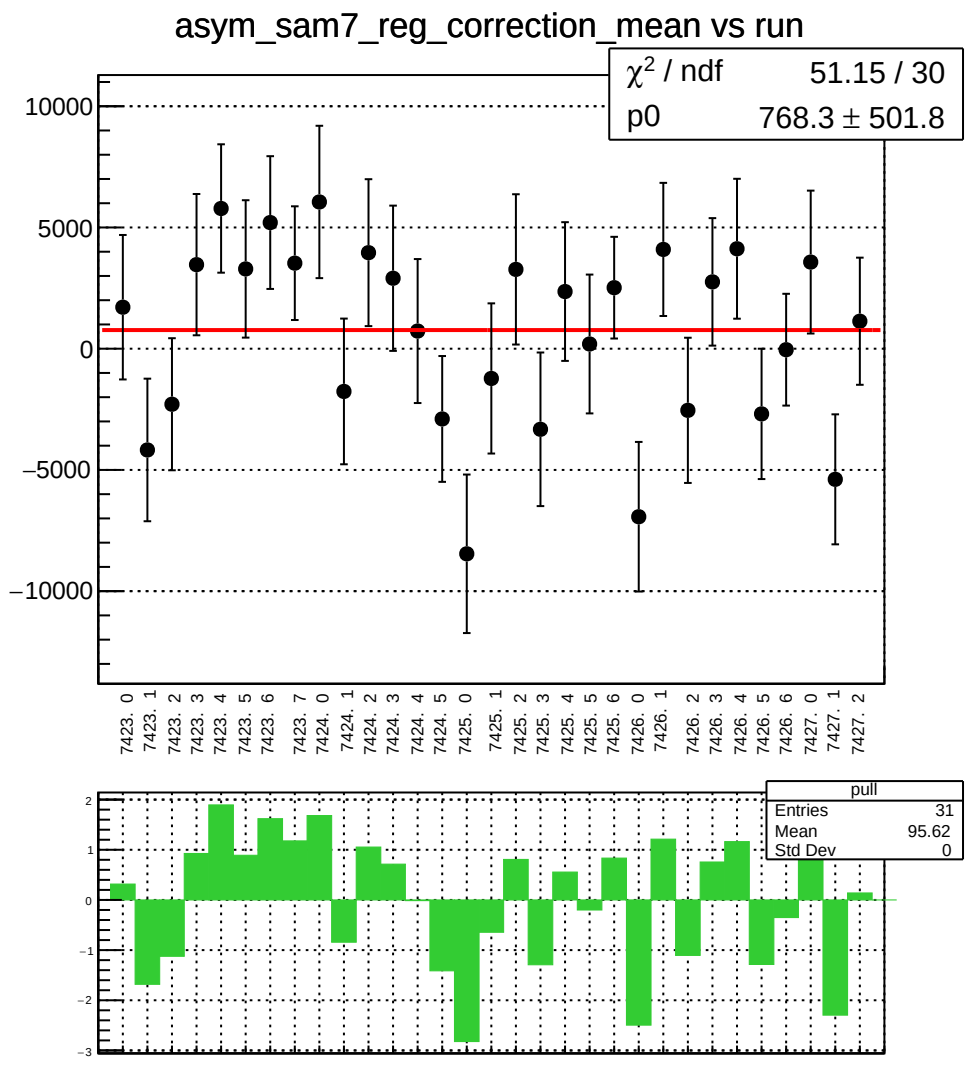

pull1D
Entries 31
Mean −0.007625
Std Dev 0.9379
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

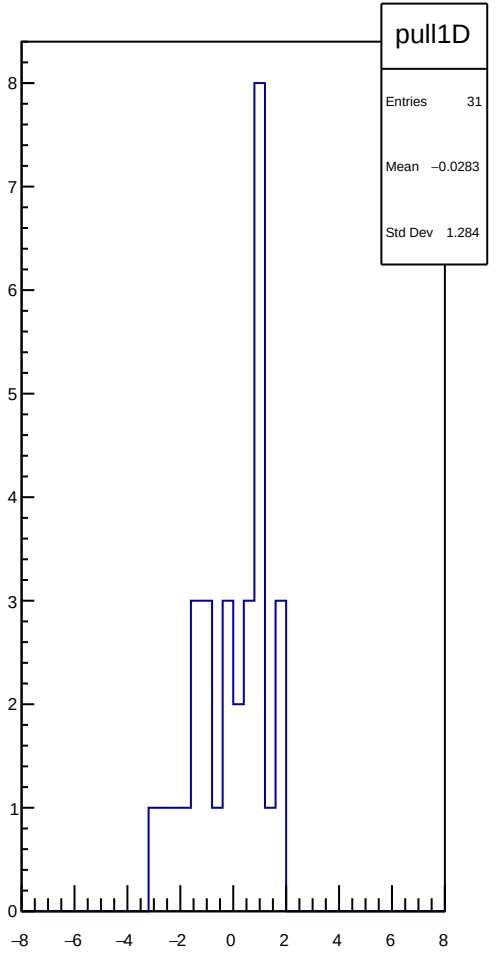

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.329e+05 / 30
p0 1.258e−11 ± 1.85e−14
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

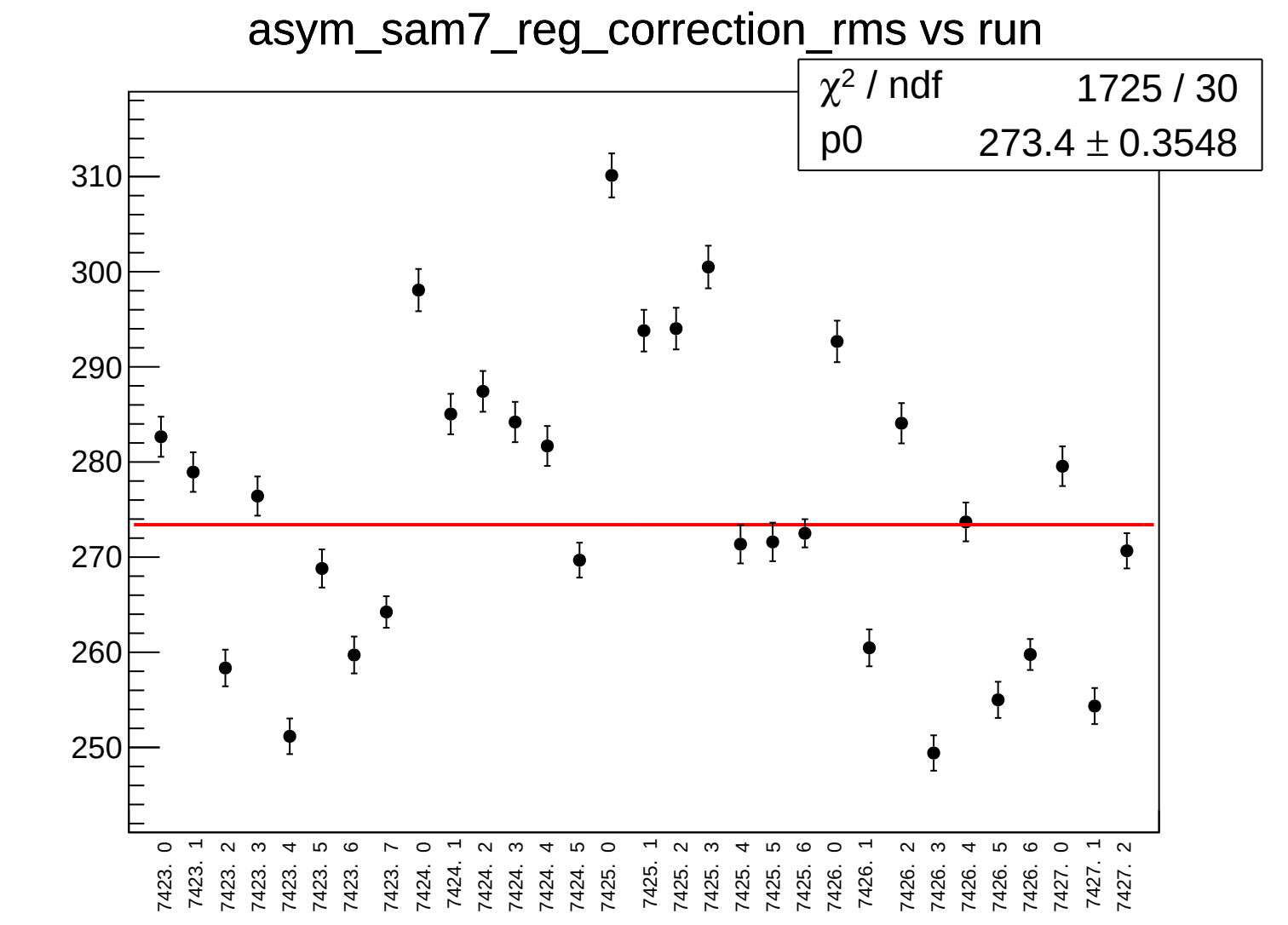

reg_asym_sam7_mean vs run
χ² / ndf 29.48 / 30
p0 −105.6 ± 135.3
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −90.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

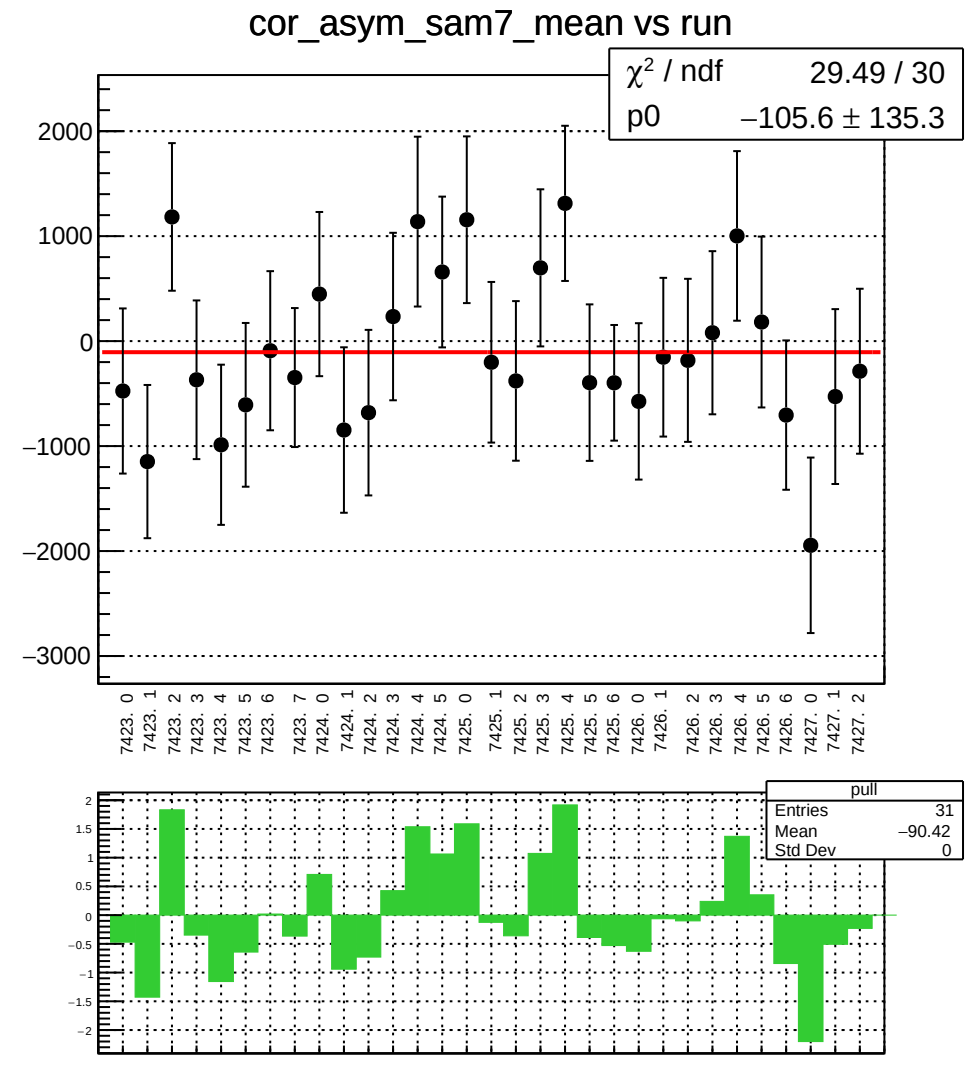

pull1D
Entries 31
Mean 0.002321
Std Dev 0.9752
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

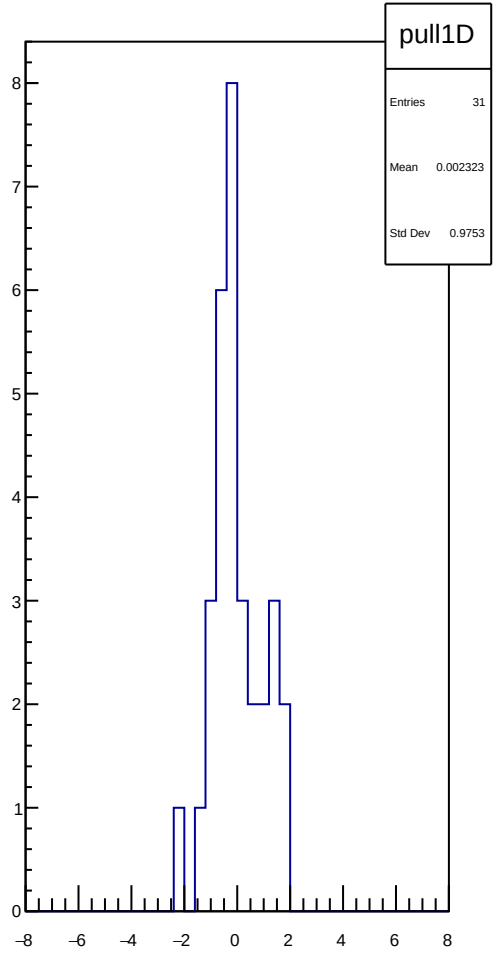

reg_asym_sam7_rms vs run
χ² / ndf 1144 / 30
p0 73.74 ± 0.09565
82
80
78
76
74
72
70
68
66
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

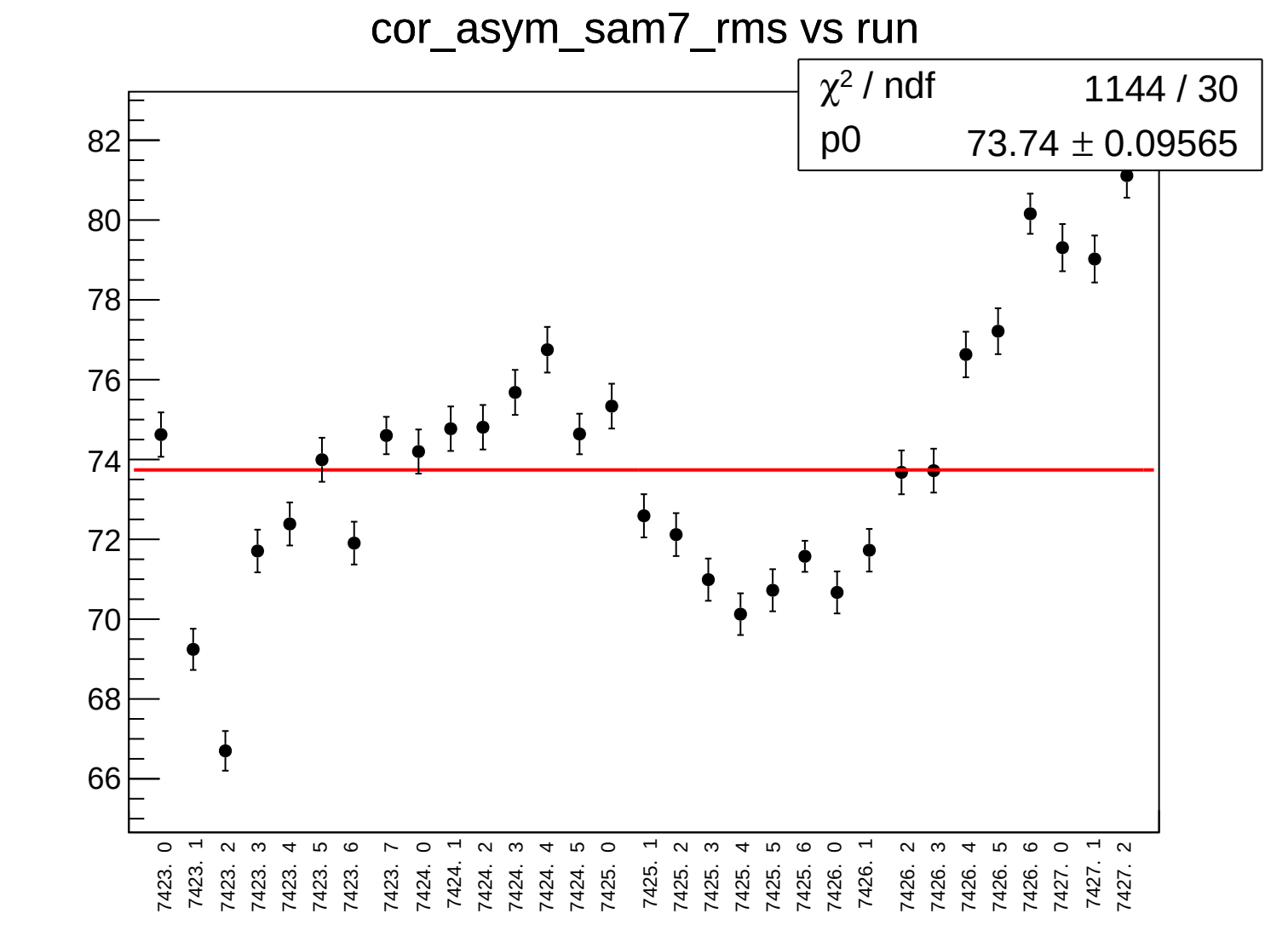

asym_sam7_reg_correction_mean vs run
χ² / ndf 51.15 / 30
p0 768.3 ± 501.8
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 95.62
Std Dev 0
2
1
0
−1
−2
−3

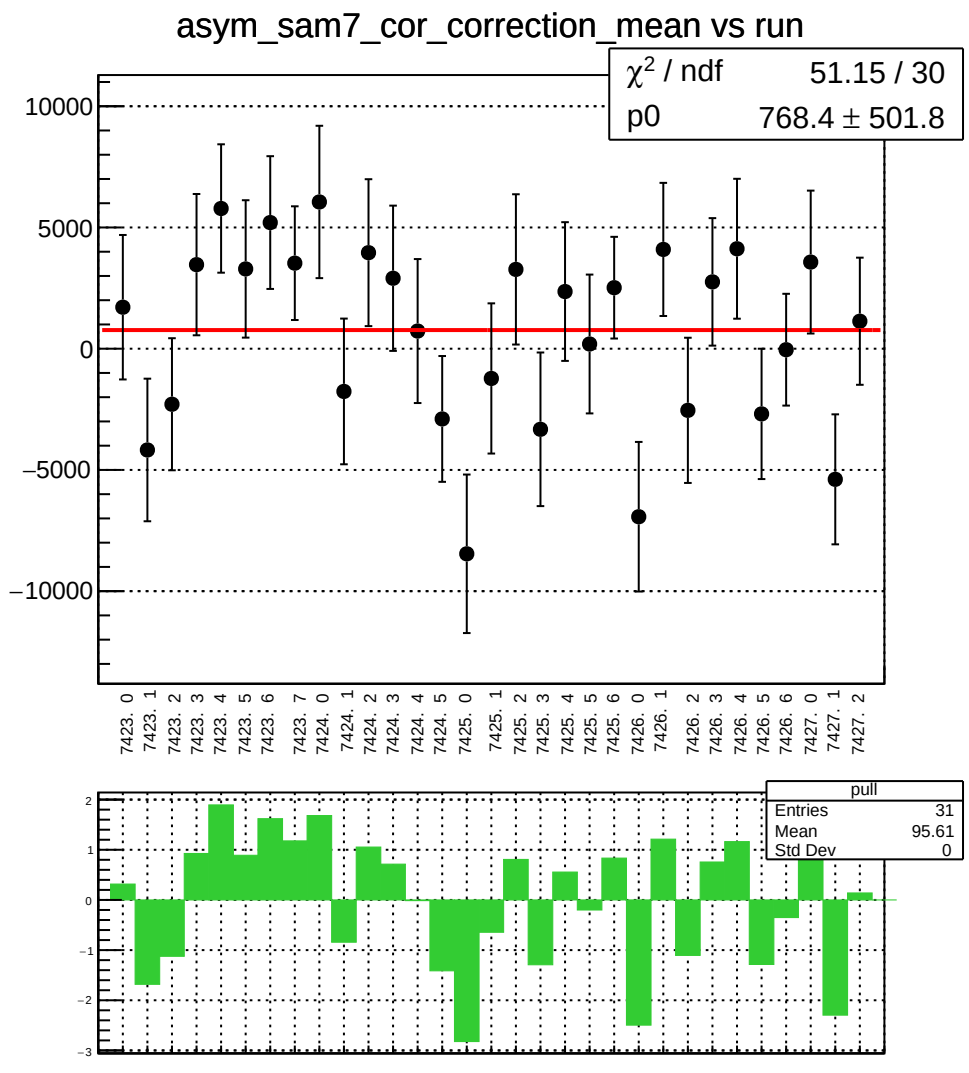

pull1D
Entries 31
Mean −0.0283
Std Dev 1.284
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

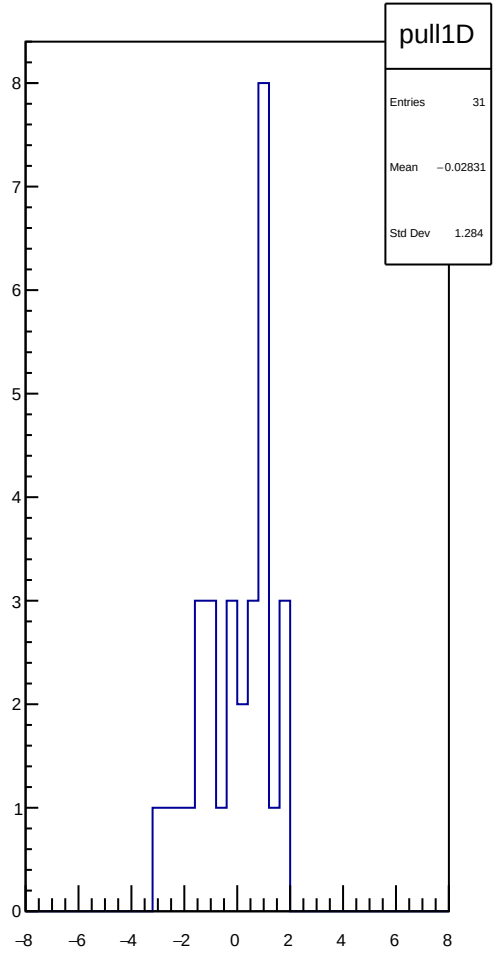

asym_sam7_reg_correction_rms vs run
χ² / ndf 1725 / 30
p0 273.4 ± 0.3548
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

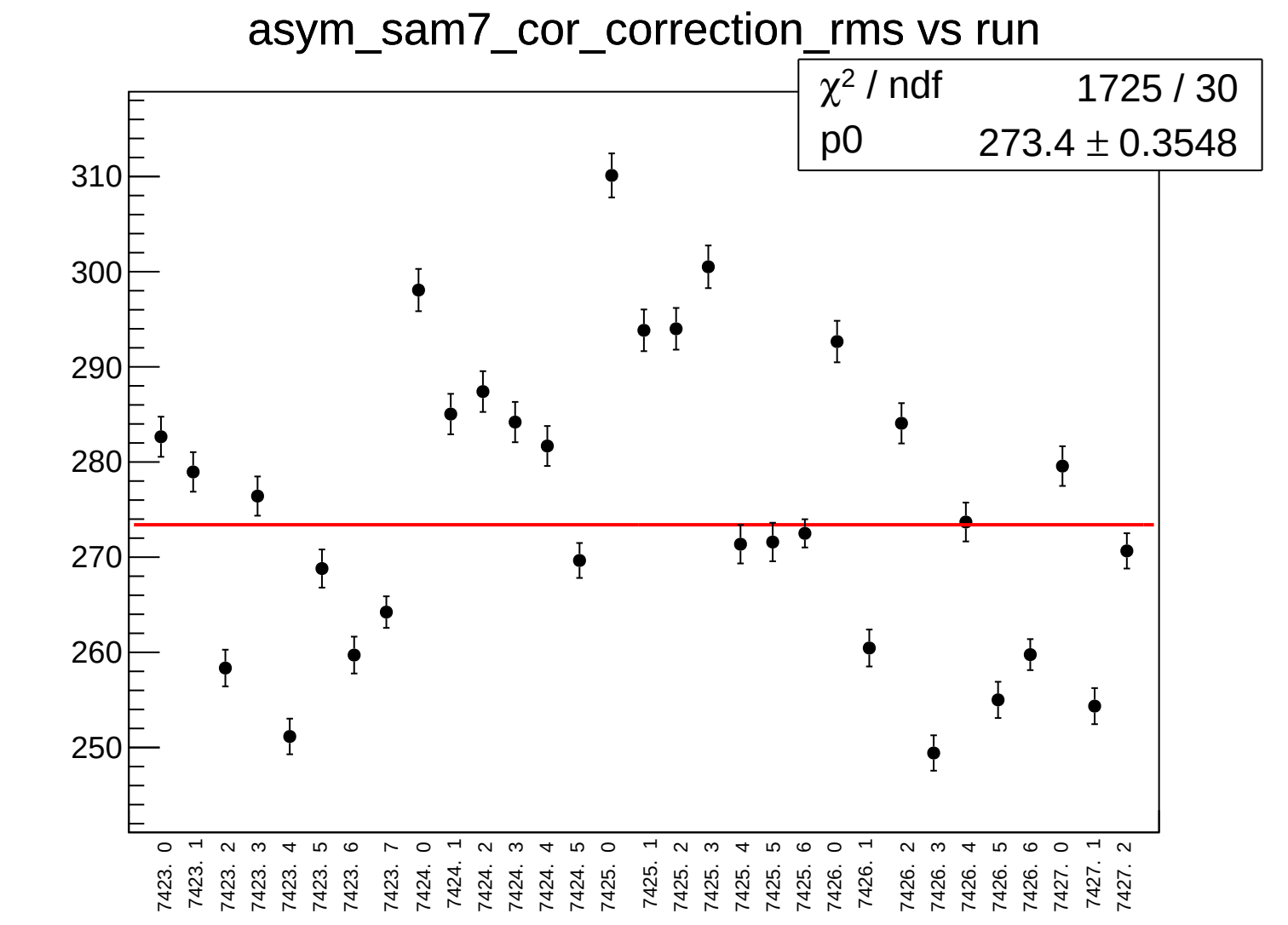

cor_asym_sam7_mean vs run
χ² / ndf 29.49 / 30
p0 −105.6 ± 135.3
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −90.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

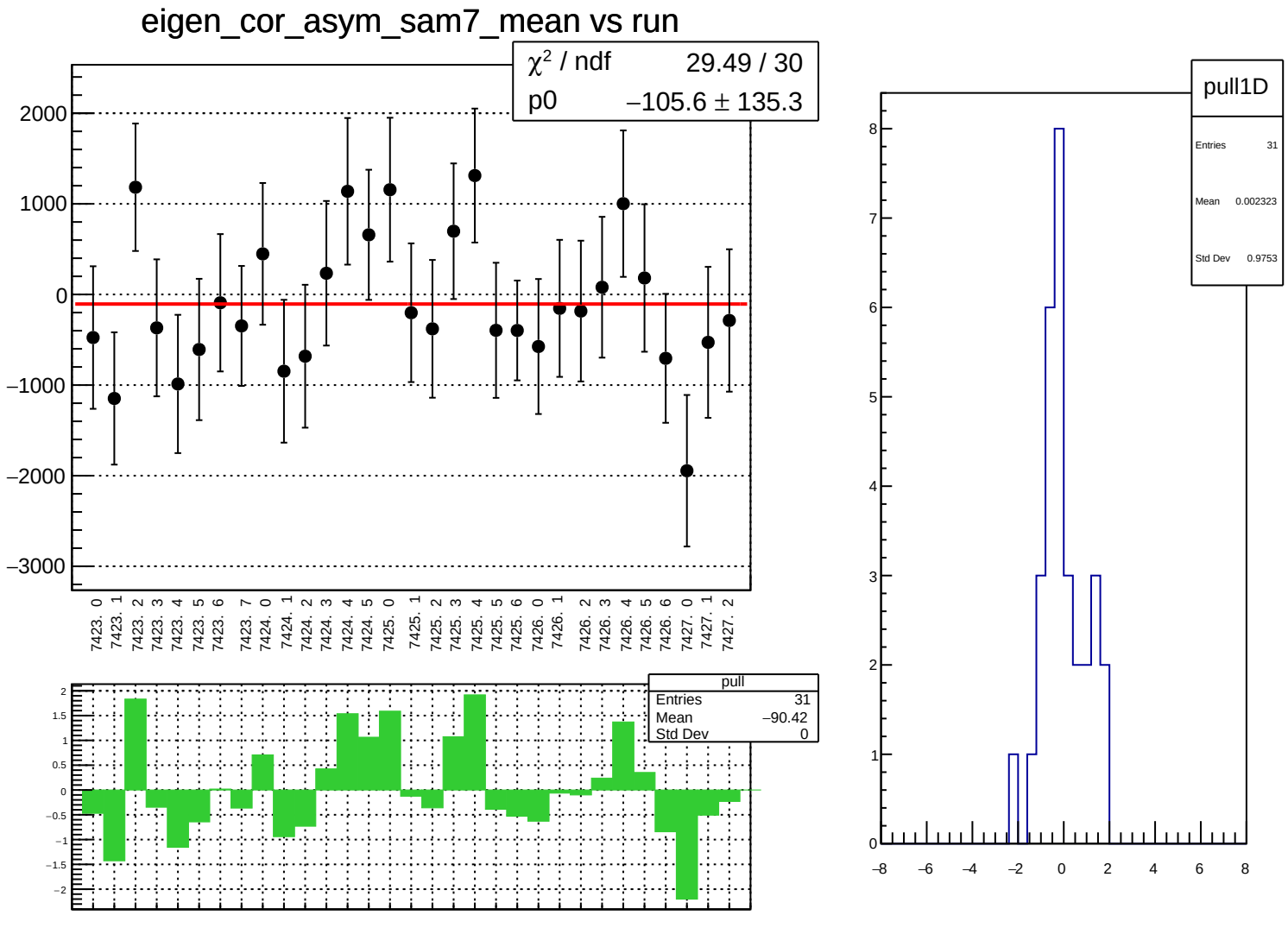

pull1D
Entries 31
Mean 0.002323
Std Dev 0.9753
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

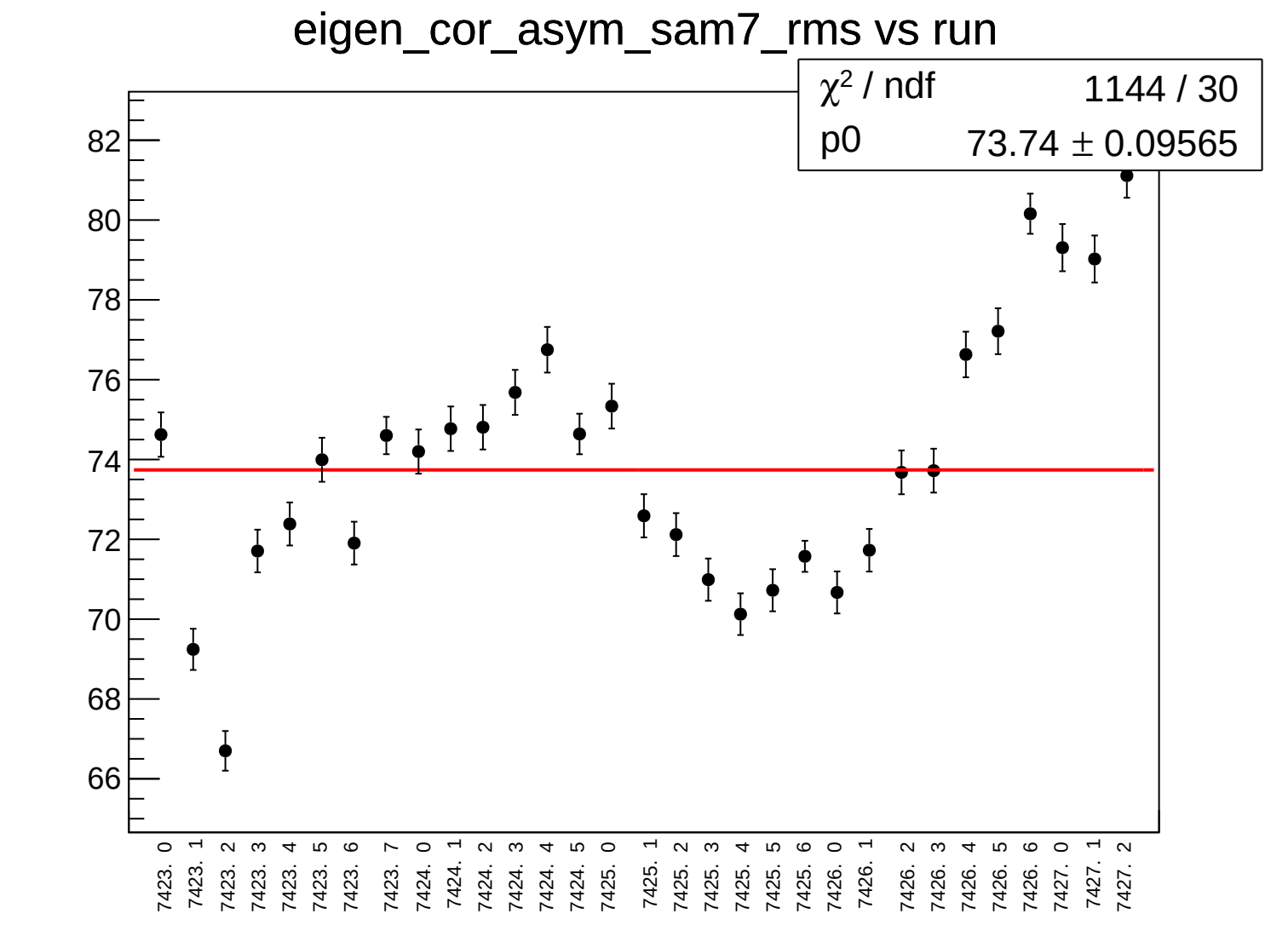

cor_asym_sam7_rms vs run
χ² / ndf 1144 / 30
p0 73.74 ± 0.09565
82
80
78
76
74
72
70
68
66
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam7_cor_correction_mean vs run
χ² / ndf 51.15 / 30
p0 768.4 ± 501.8
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 95.61
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 31
Mean −0.02831
Std Dev 1.284
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_cor_correction_rms vs run
χ² / ndf 1725 / 30
p0 273.4 ± 0.3548
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_cor_asym_sam7_mean vs run
χ² / ndf 29.49 / 30
p0 −105.6 ± 135.3
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −90.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.002323
Std Dev 0.9753
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam7_rms vs run
χ² / ndf 1144 / 30
p0 73.74 ± 0.09565
82
80
78
76
74
72
70
68
66
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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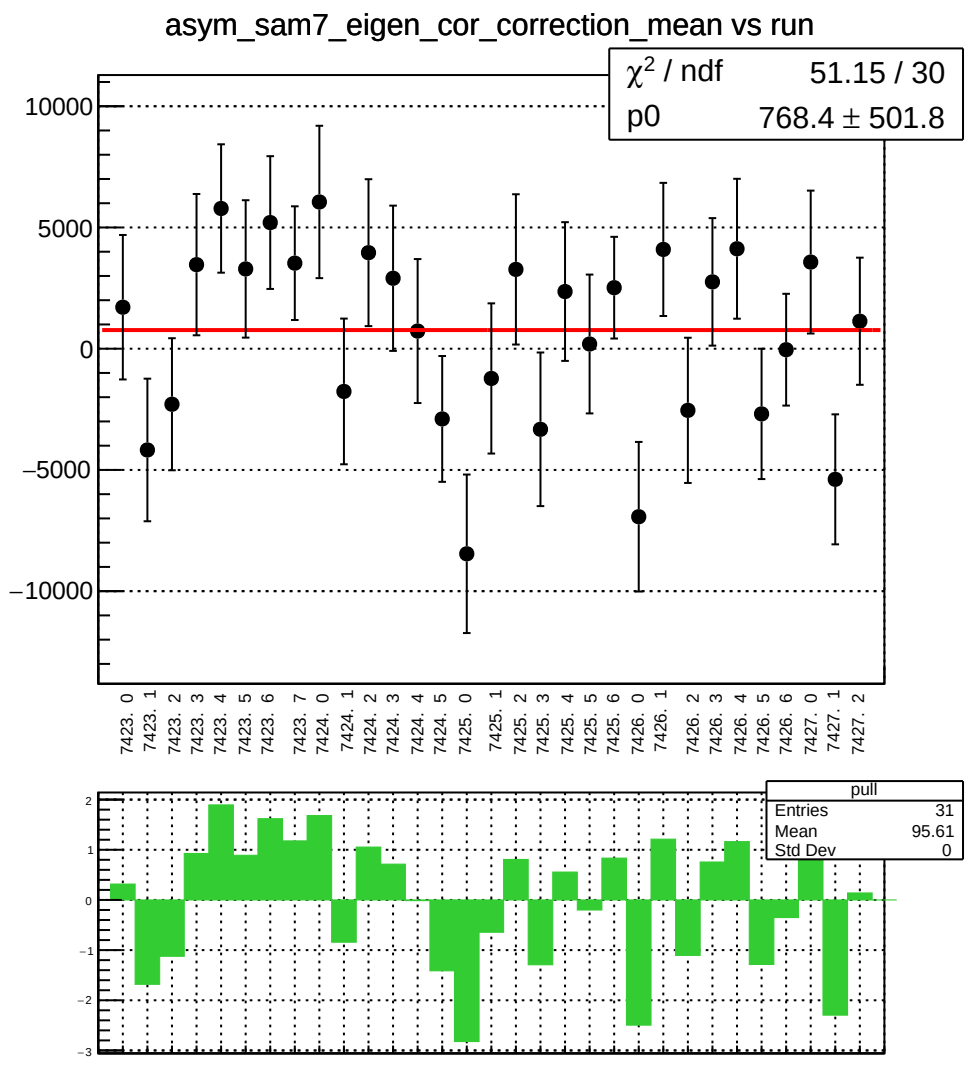
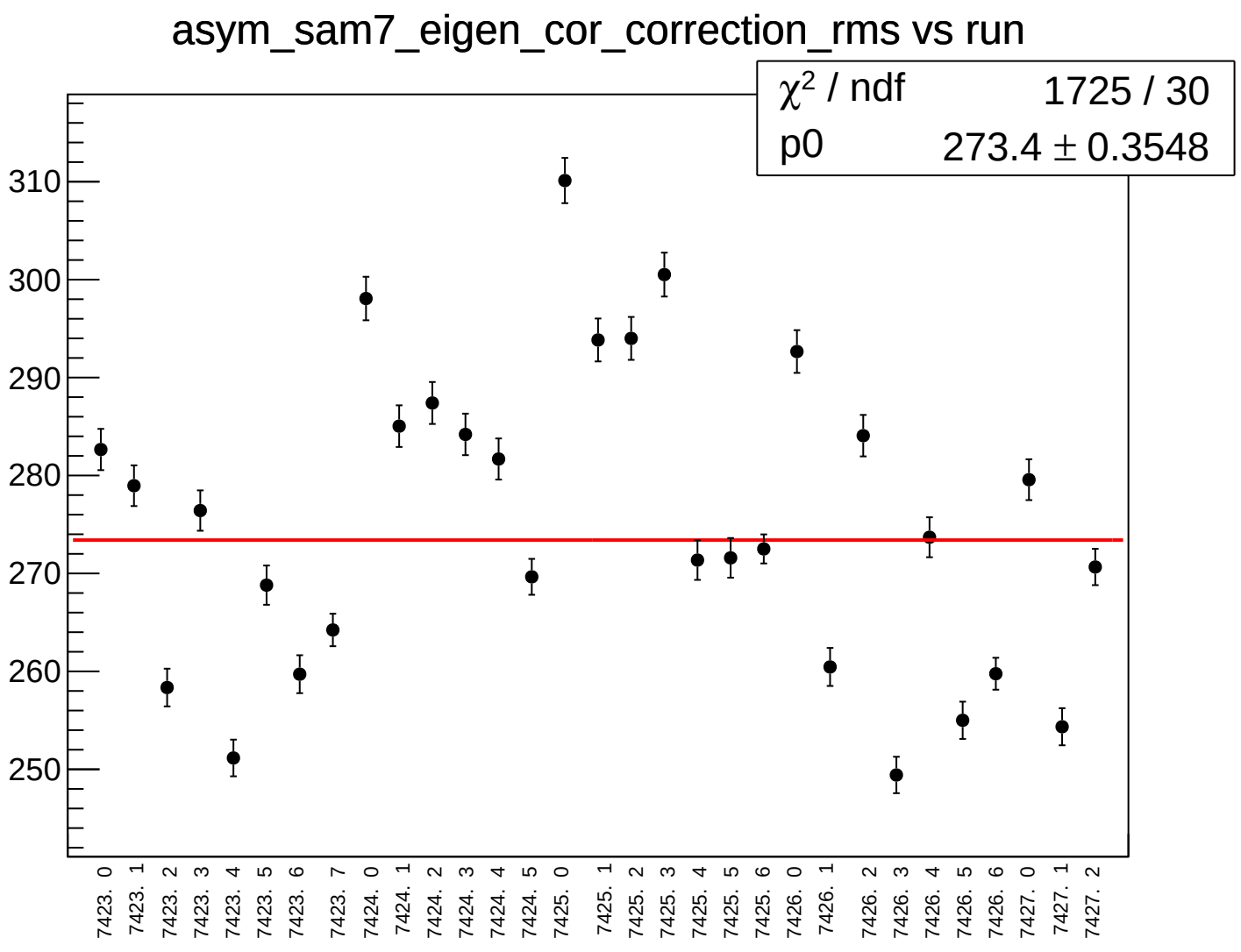
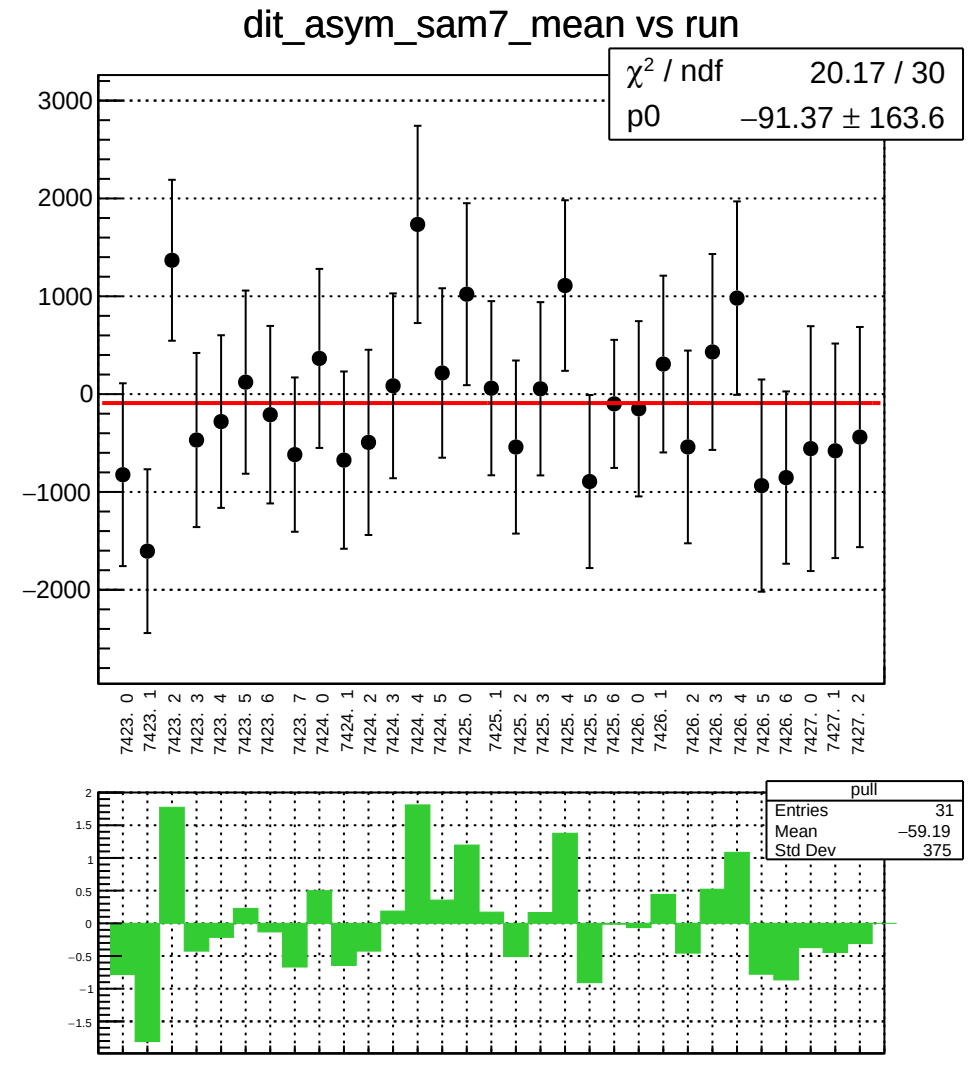
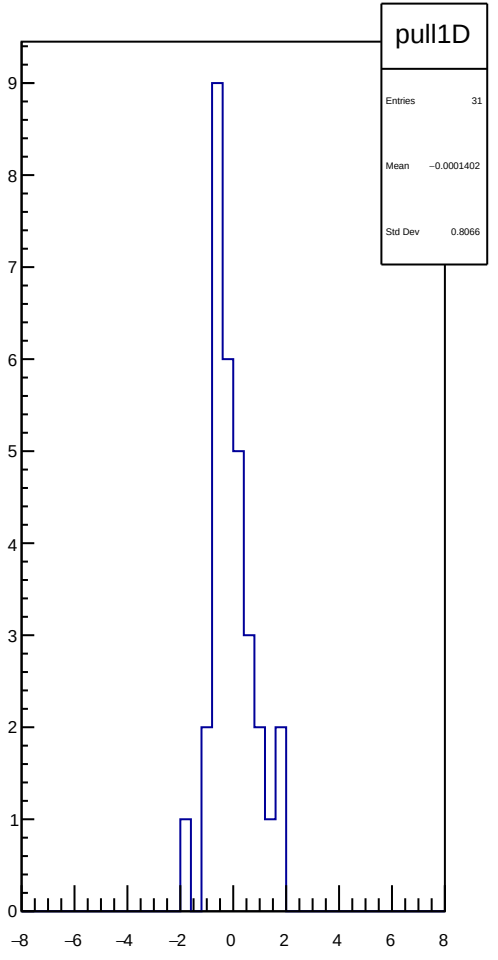
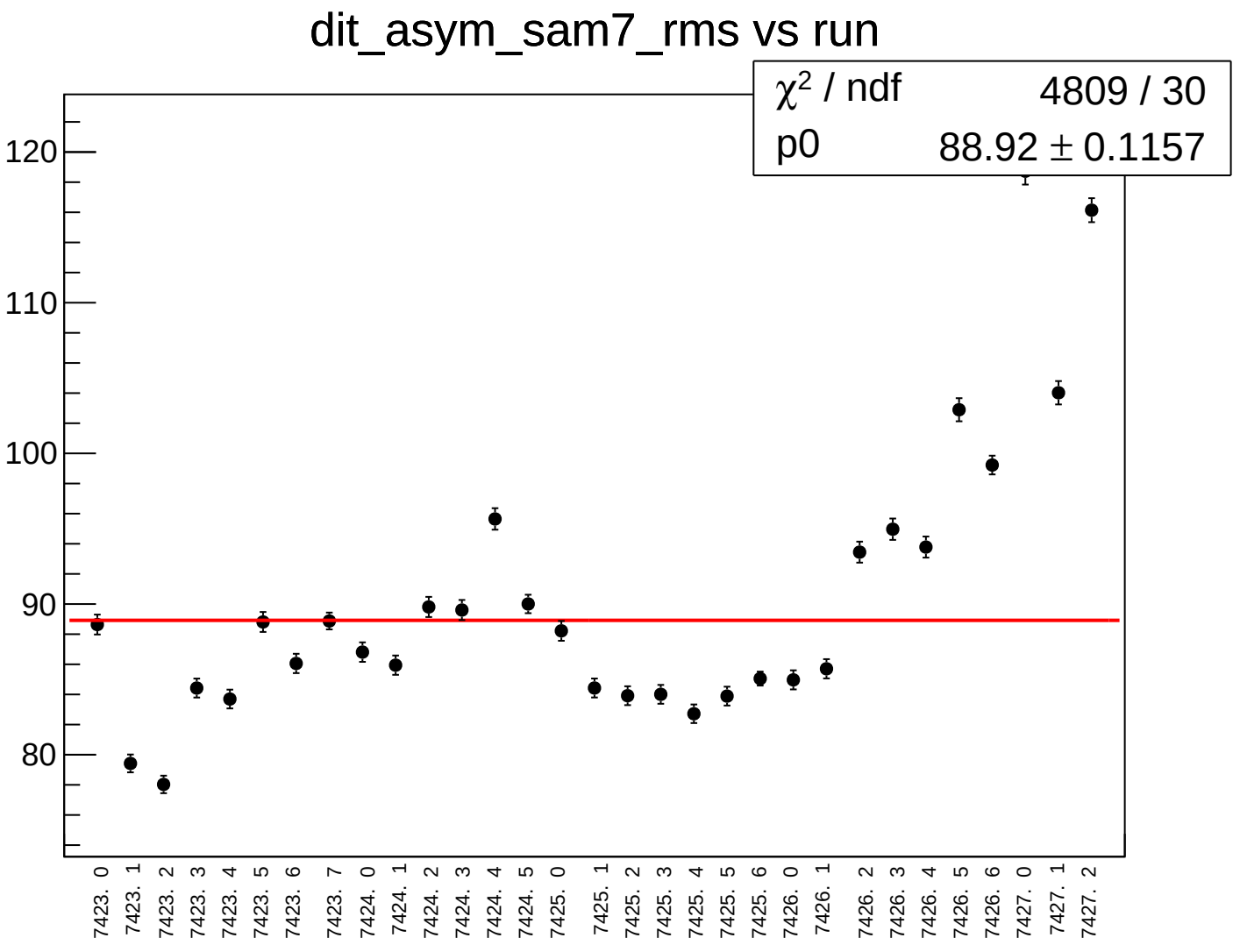
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

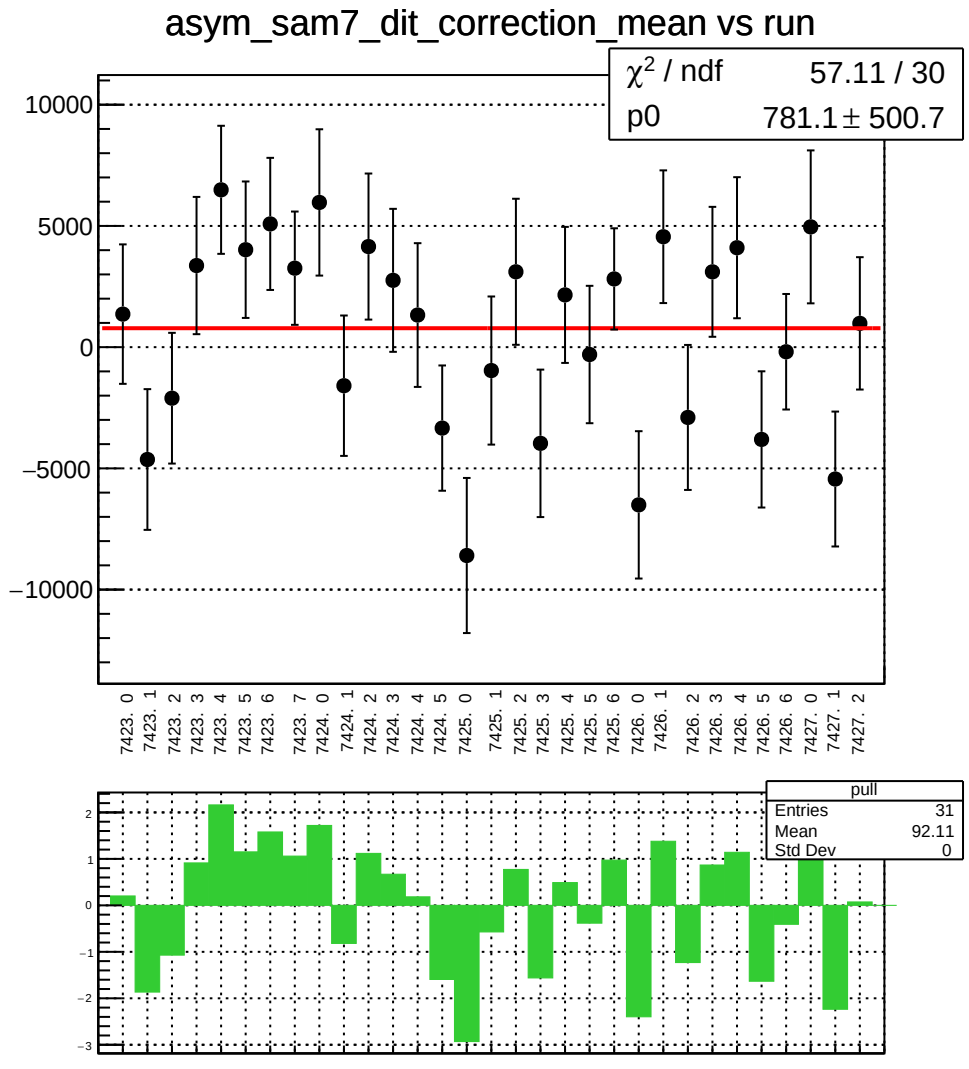

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 51.15 / 30
p0 768.4 ± 501.8
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 95.61
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.02831
Std Dev 1.284
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

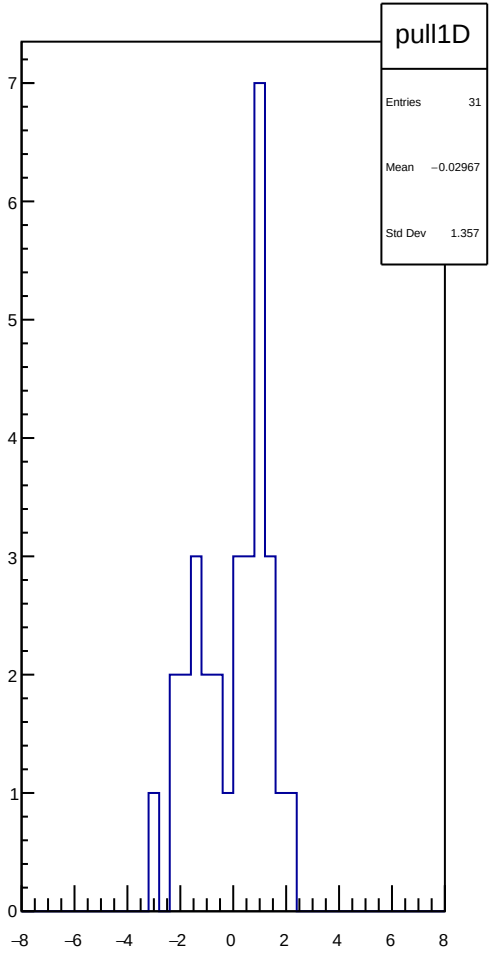

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1725 / 30
p0 273.4 ± 0.3548
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

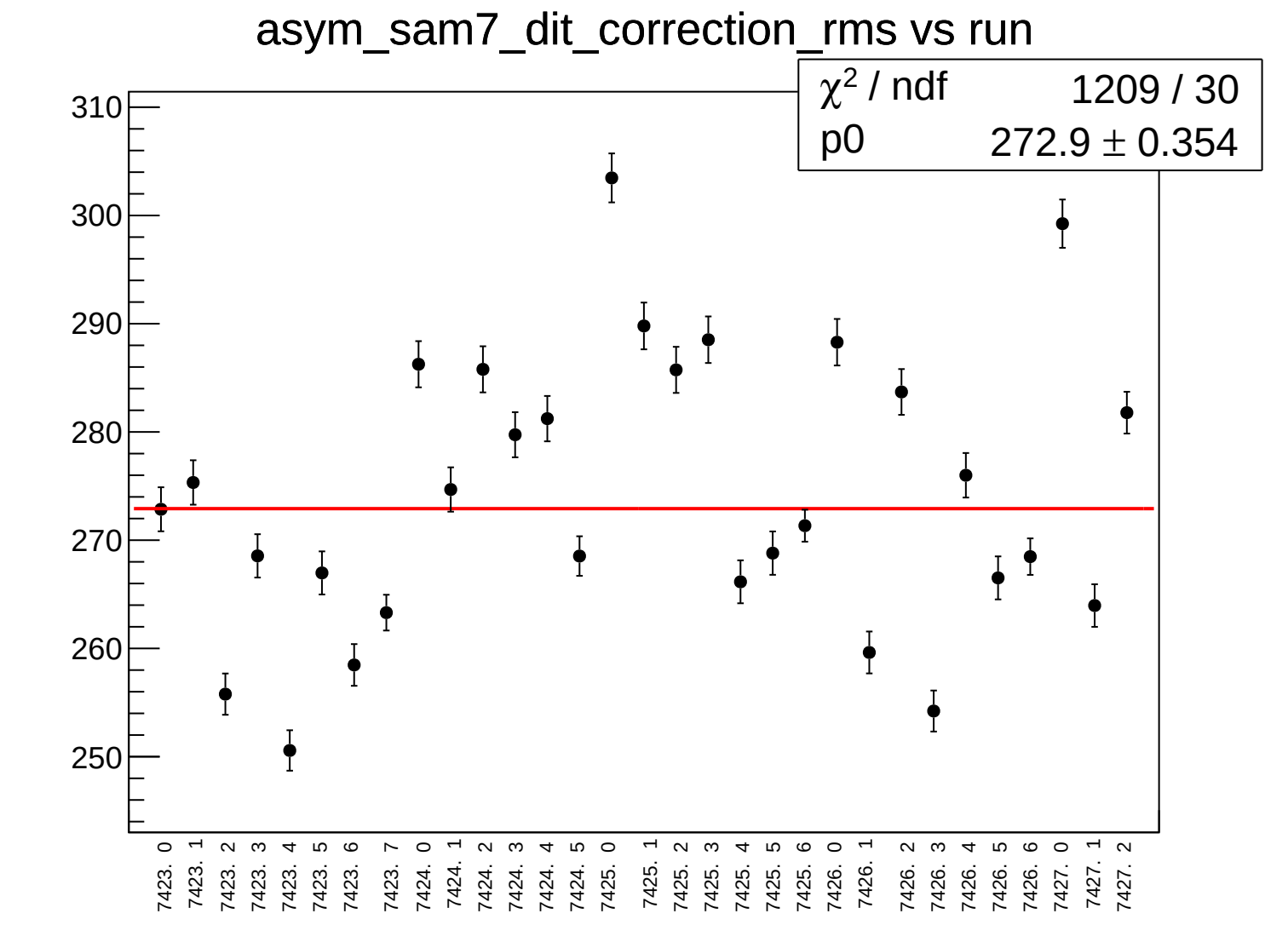

dit_asym_sam7_mean vs run
χ² / ndf 20.17 / 30
p0 −91.37 ± 163.6
3000
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −59.19
Std Dev 375
2
1.5
1
0.5
0
−0.5
−1
−1.5

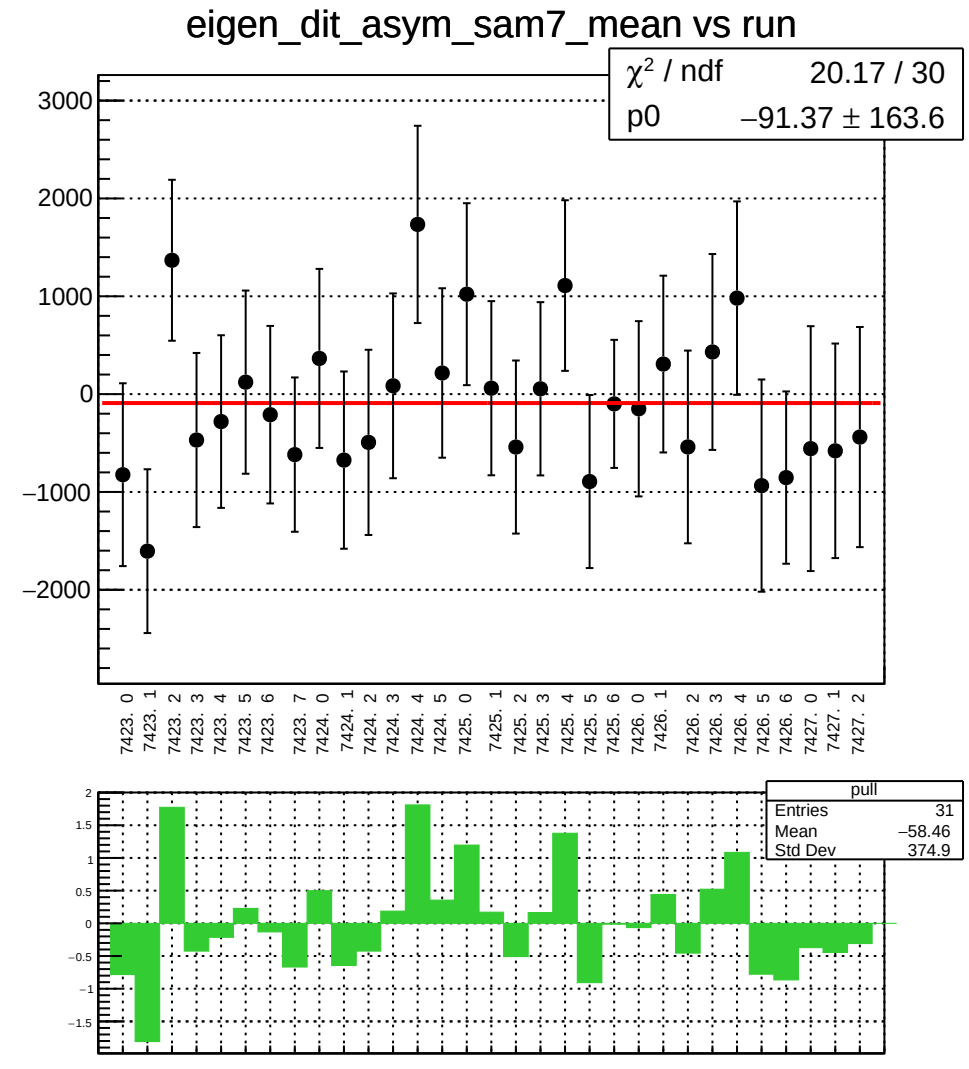

pull1D
Entries 31
Mean −0.0001402
Std Dev 0.8066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

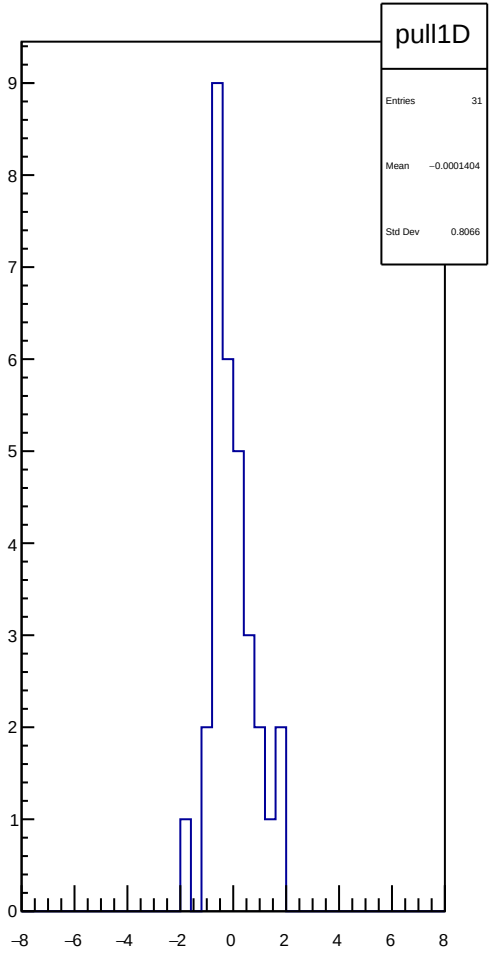

dit_asym_sam7_rms vs run
χ² / ndf 4809 / 30
p0 88.92 ± 0.1157
120
110
100
90
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

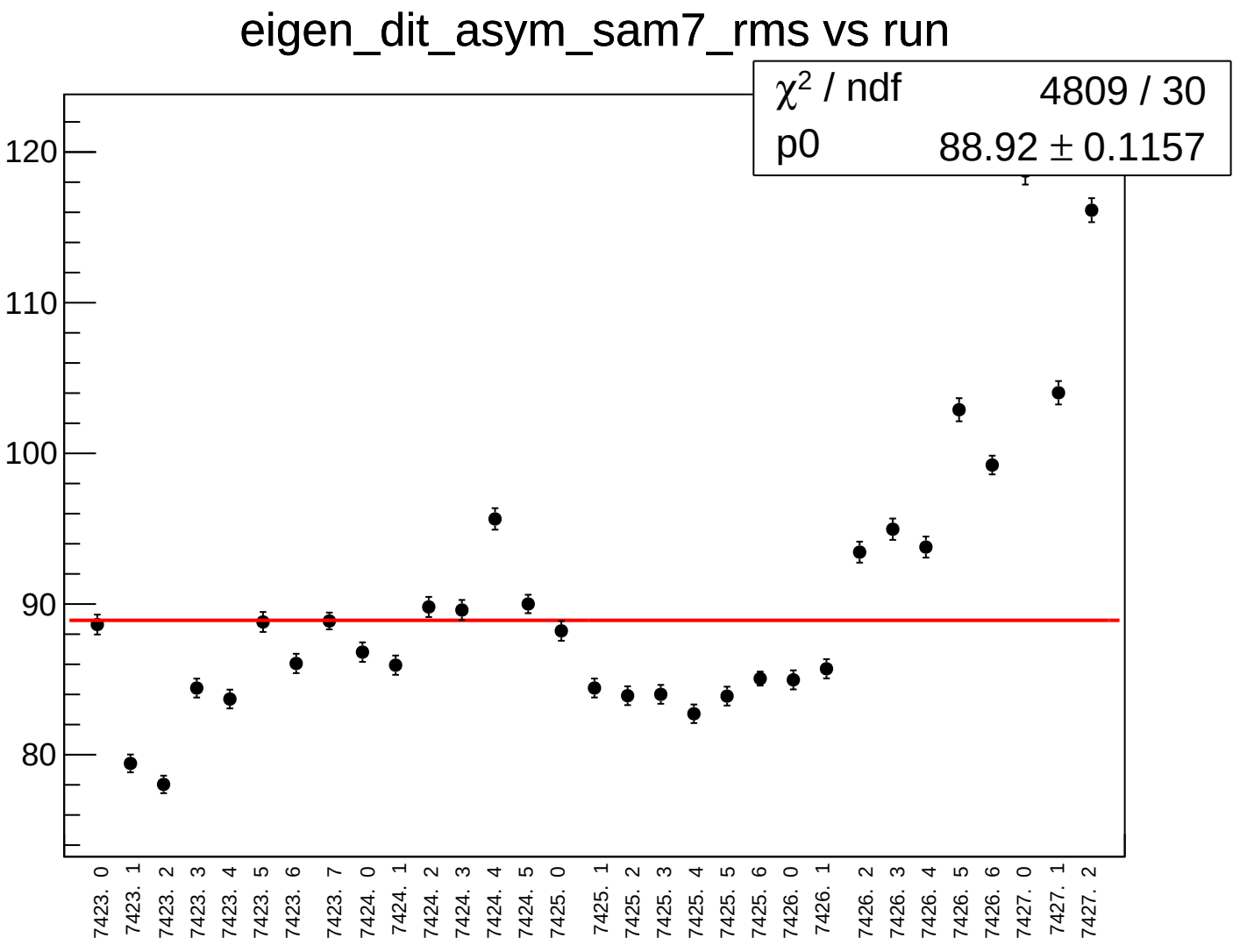

asym_sam7_dit_correction_mean vs run
χ² / ndf 57.11 / 30
p0 781.1 ± 500.7
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 92.11
Std Dev 0
2
1
0
−1
−2
−3

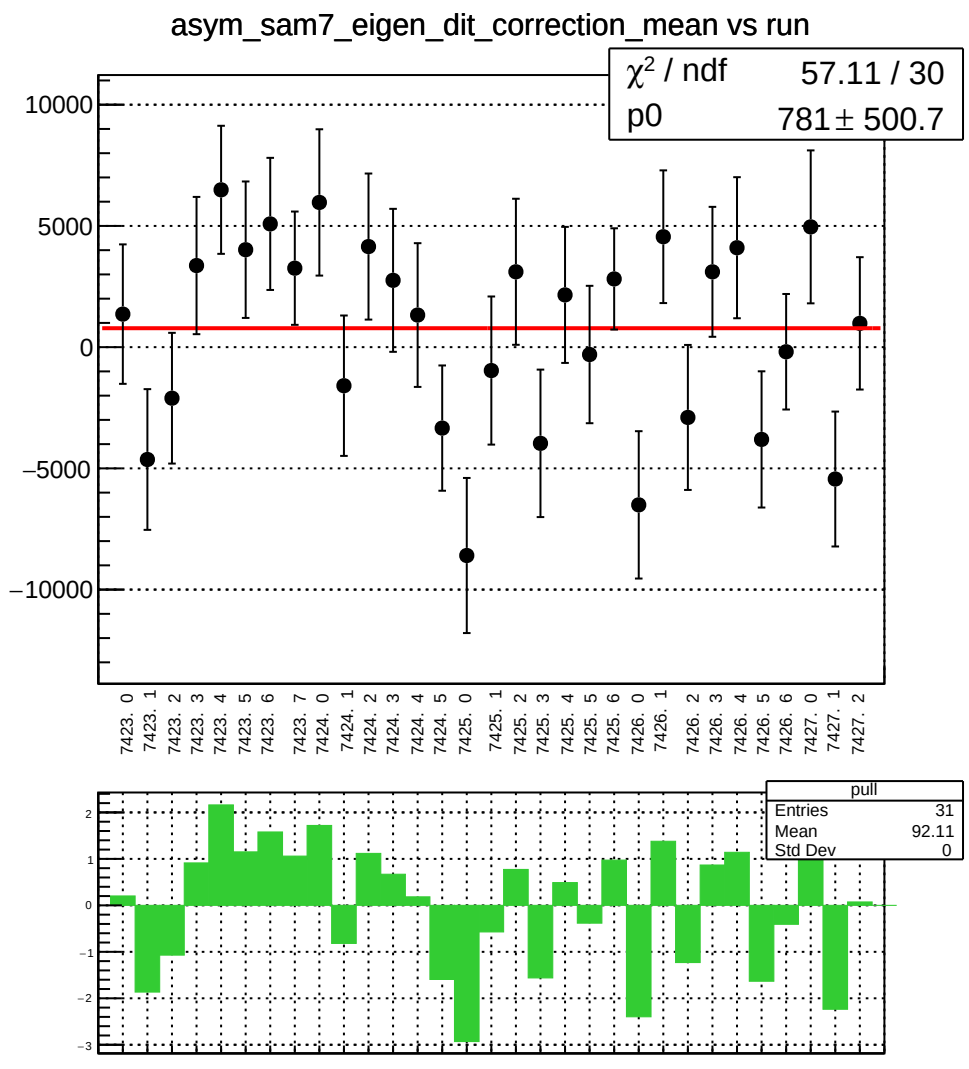

pull1D
Entries 31
Mean −0.02967
Std Dev 1.357
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

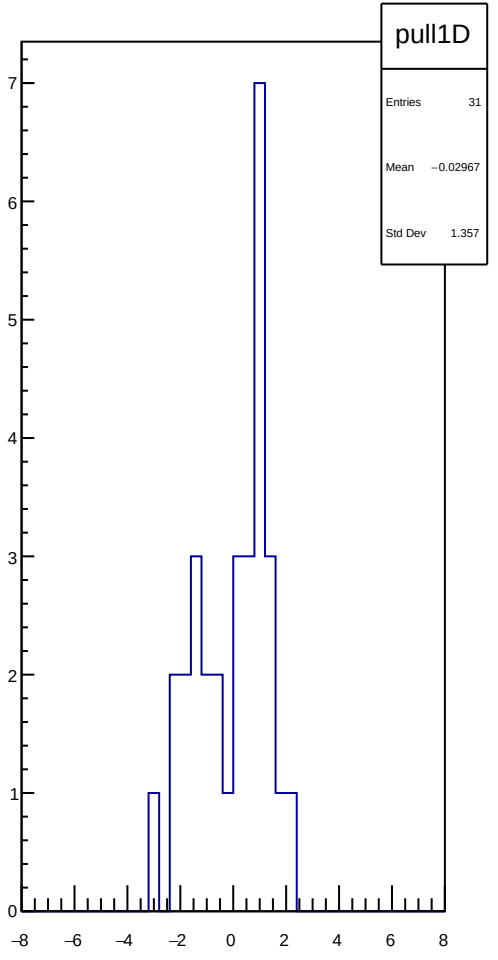

asym_sam7_dit_correction_rms vs run
χ² / ndf 1209 / 30
p0 272.9 ± 0.354
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

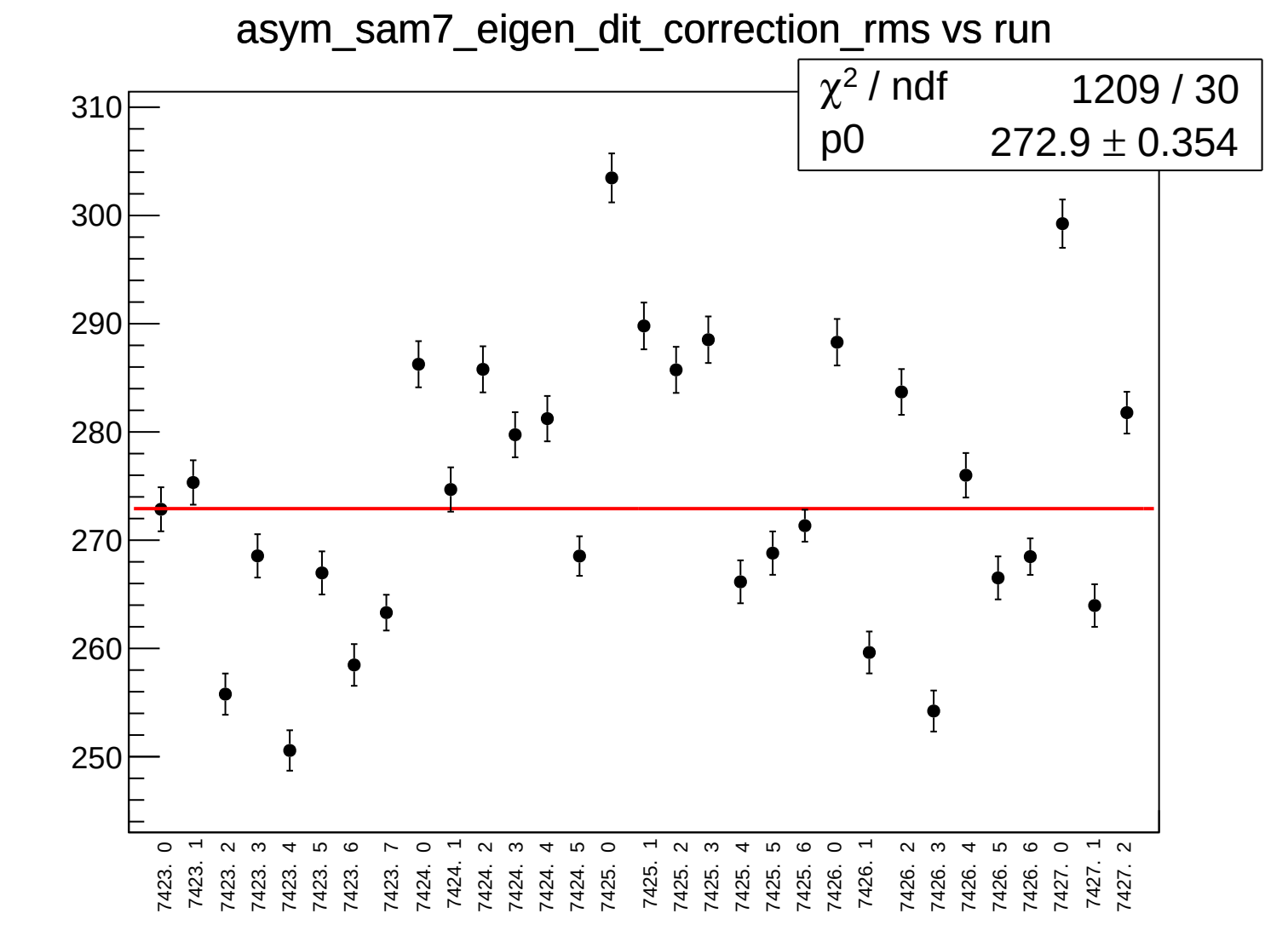

eigen_dit_asym_sam7_mean vs run
χ² / ndf 20.17 / 30
p0 −91.37 ± 163.6
3000
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −58.46
Std Dev 374.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

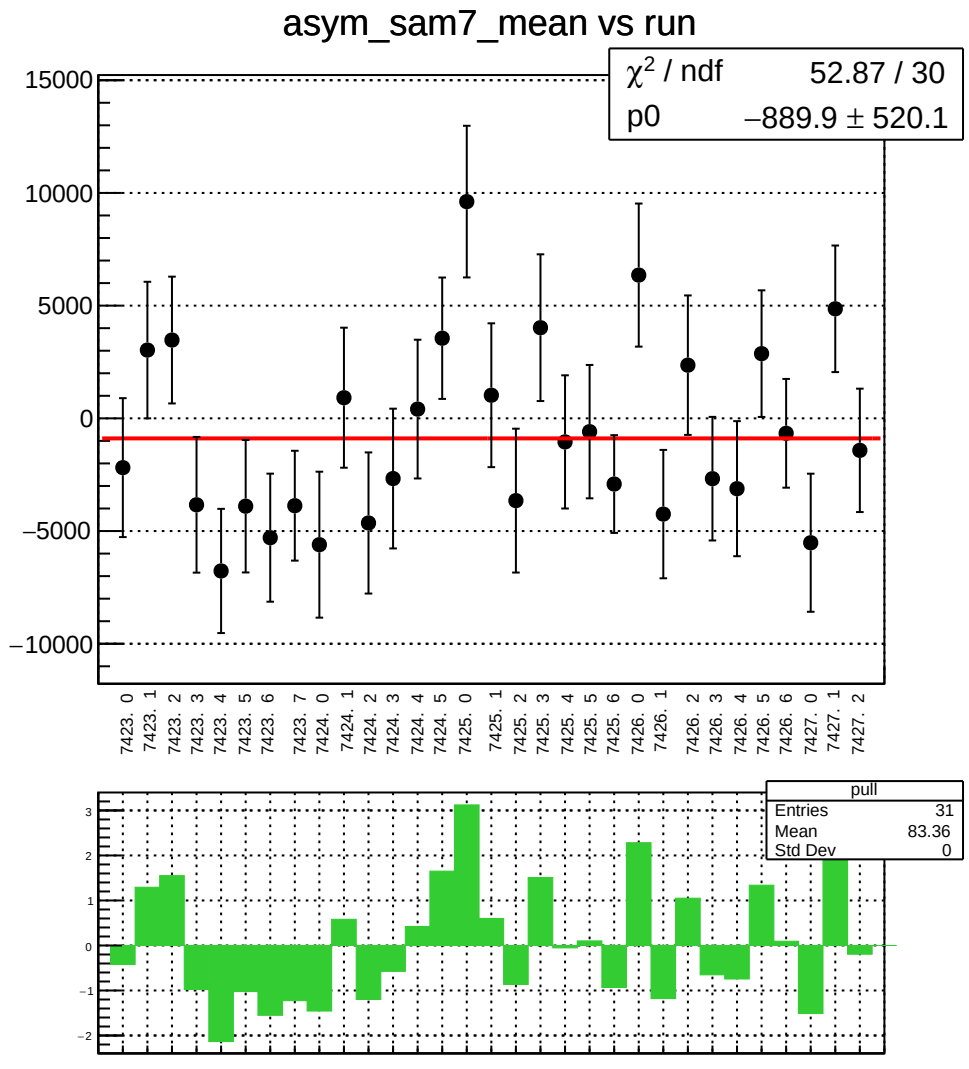

pull1D
Entries 31
Mean −0.0001404
Std Dev 0.8066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

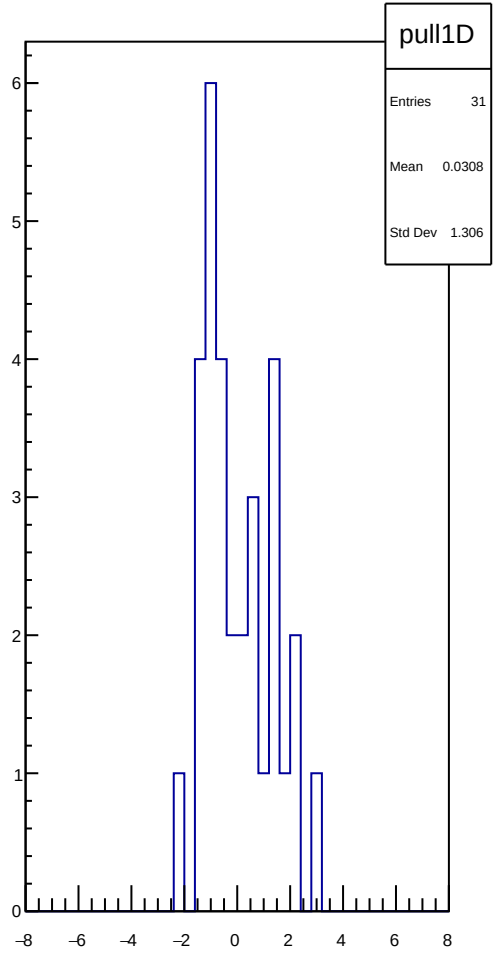

eigen_dit_asym_sam7_rms vs run
χ² / ndf 4809 / 30
p0 88.92 ± 0.1157
120
110
100
90
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

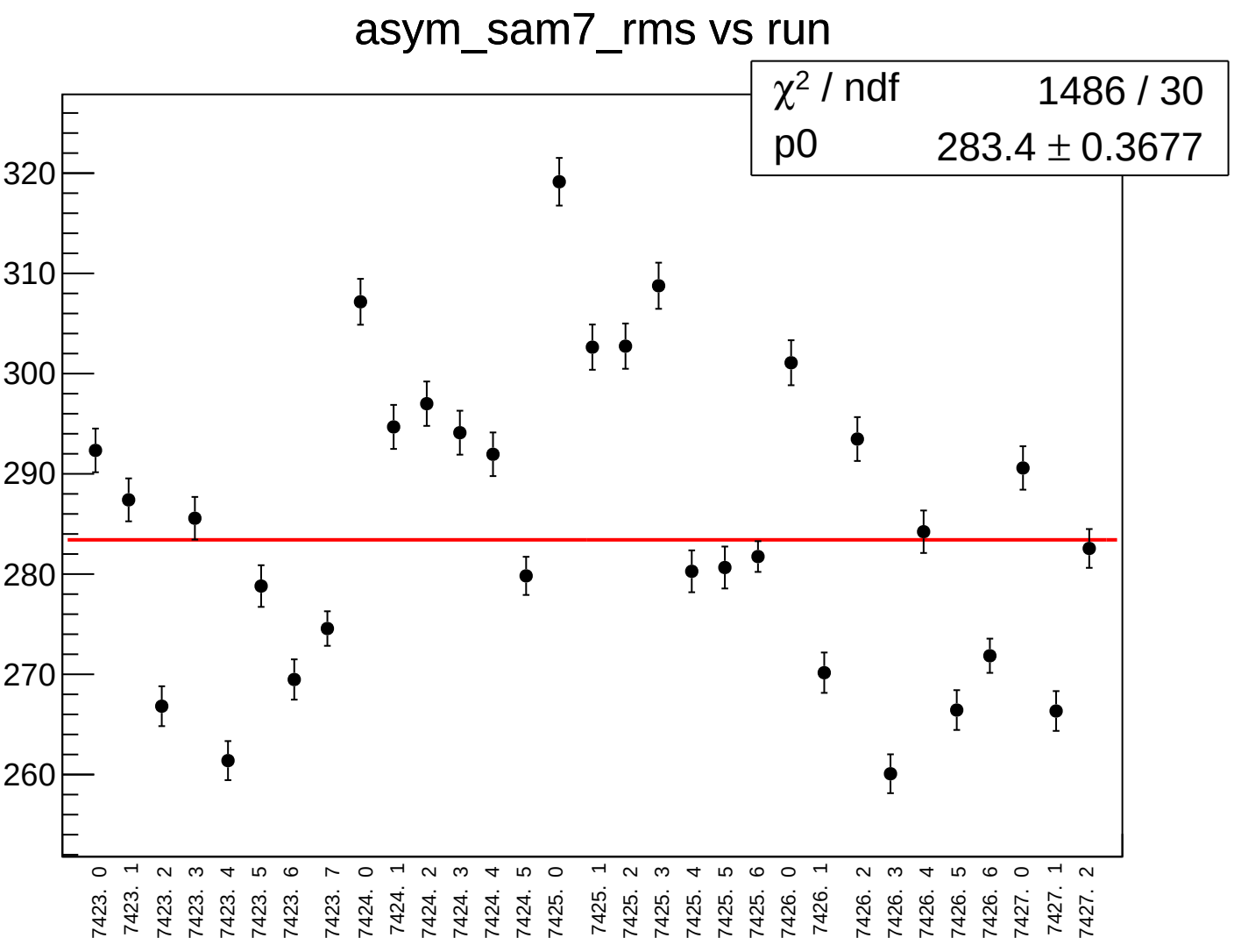

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 57.11 / 30
p0 781 ± 500.7
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 92.11
Std Dev 0
2
1
0
−1
−2
−3

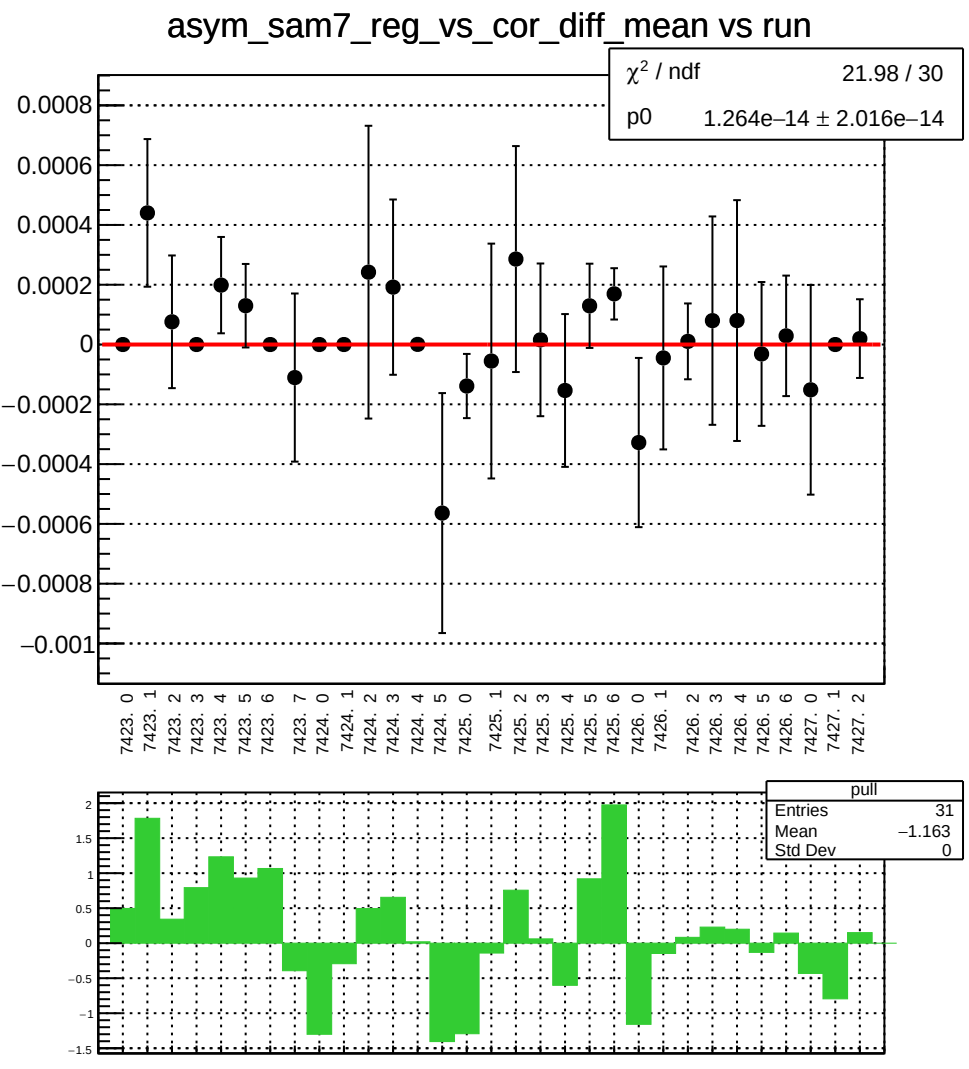

pull1D
Entries 31
Mean −0.02967
Std Dev 1.357
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

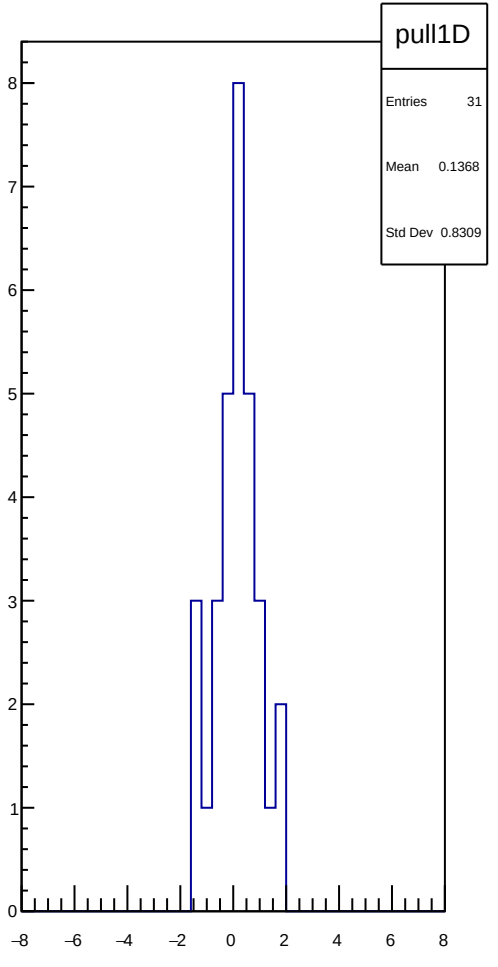

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1209 / 30
p0 272.9 ± 0.354
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

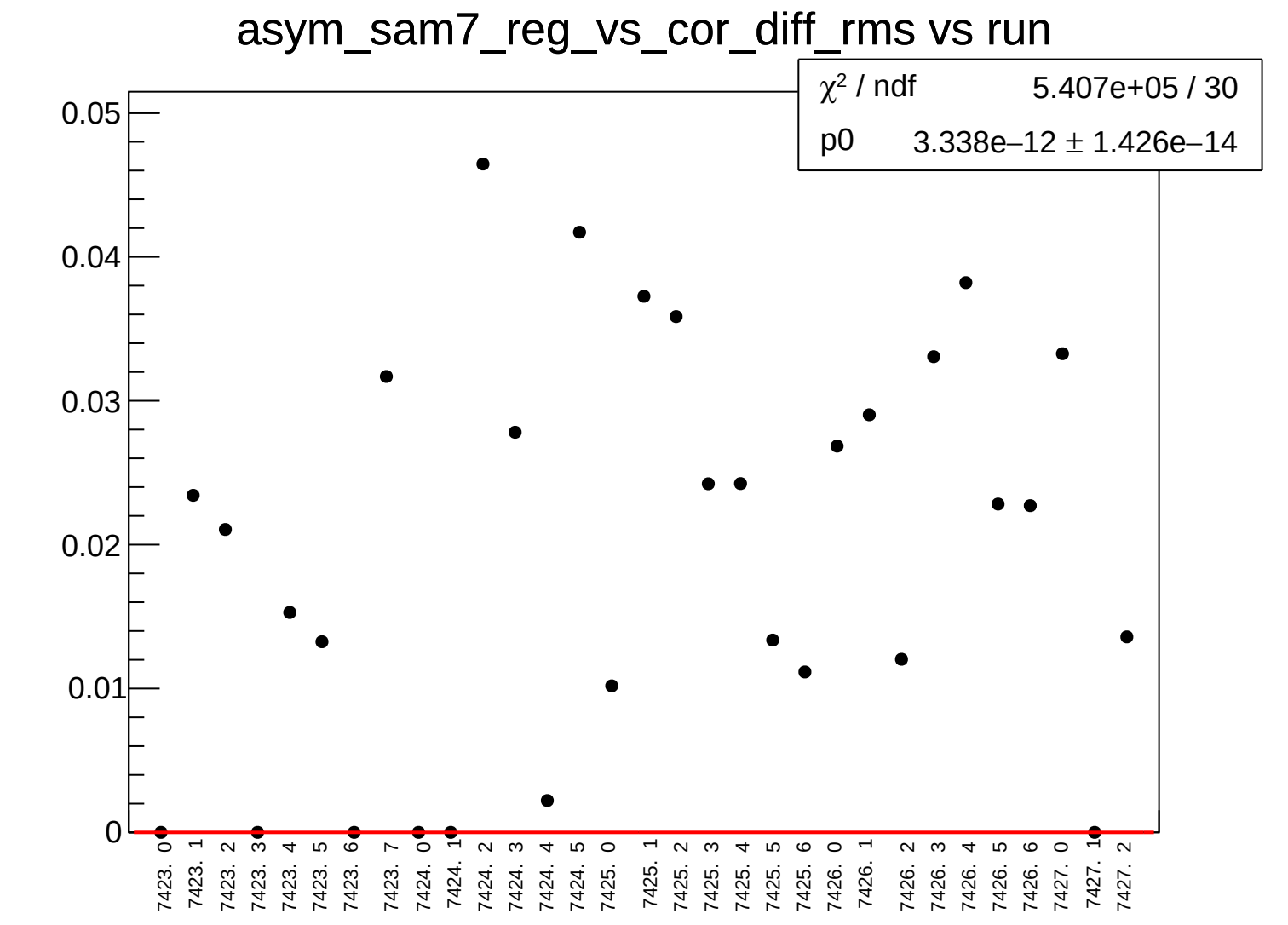

asym_sam7_mean vs run
χ² / ndf 52.87 / 30
p0 −889.9 ± 520.1
15000
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 83.36
Std Dev 0
3
2
1
0
−1
−2

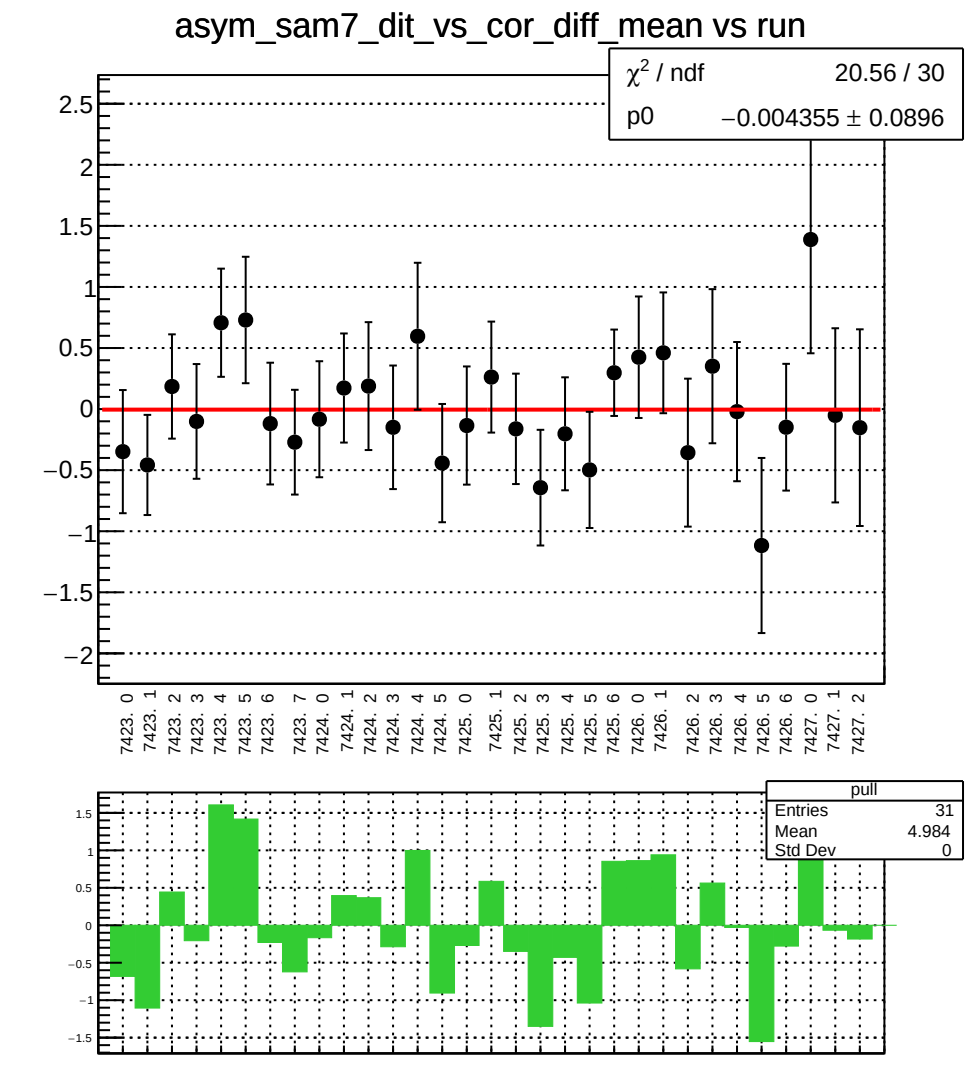

pull1D
Entries 31
Mean 0.0308
Std Dev 1.306
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

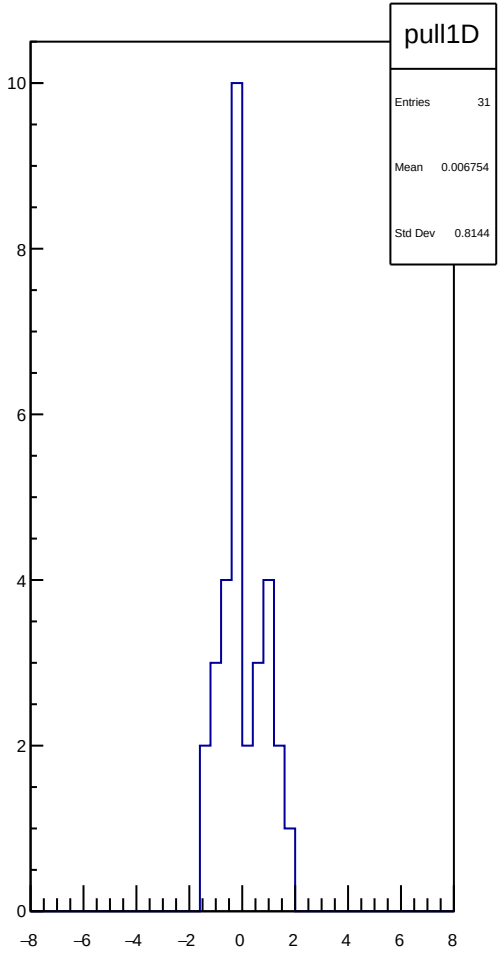

asym_sam7_rms vs run
χ² / ndf 1486 / 30
p0 283.4 ± 0.3677
320
310
300
290
280
270
260
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

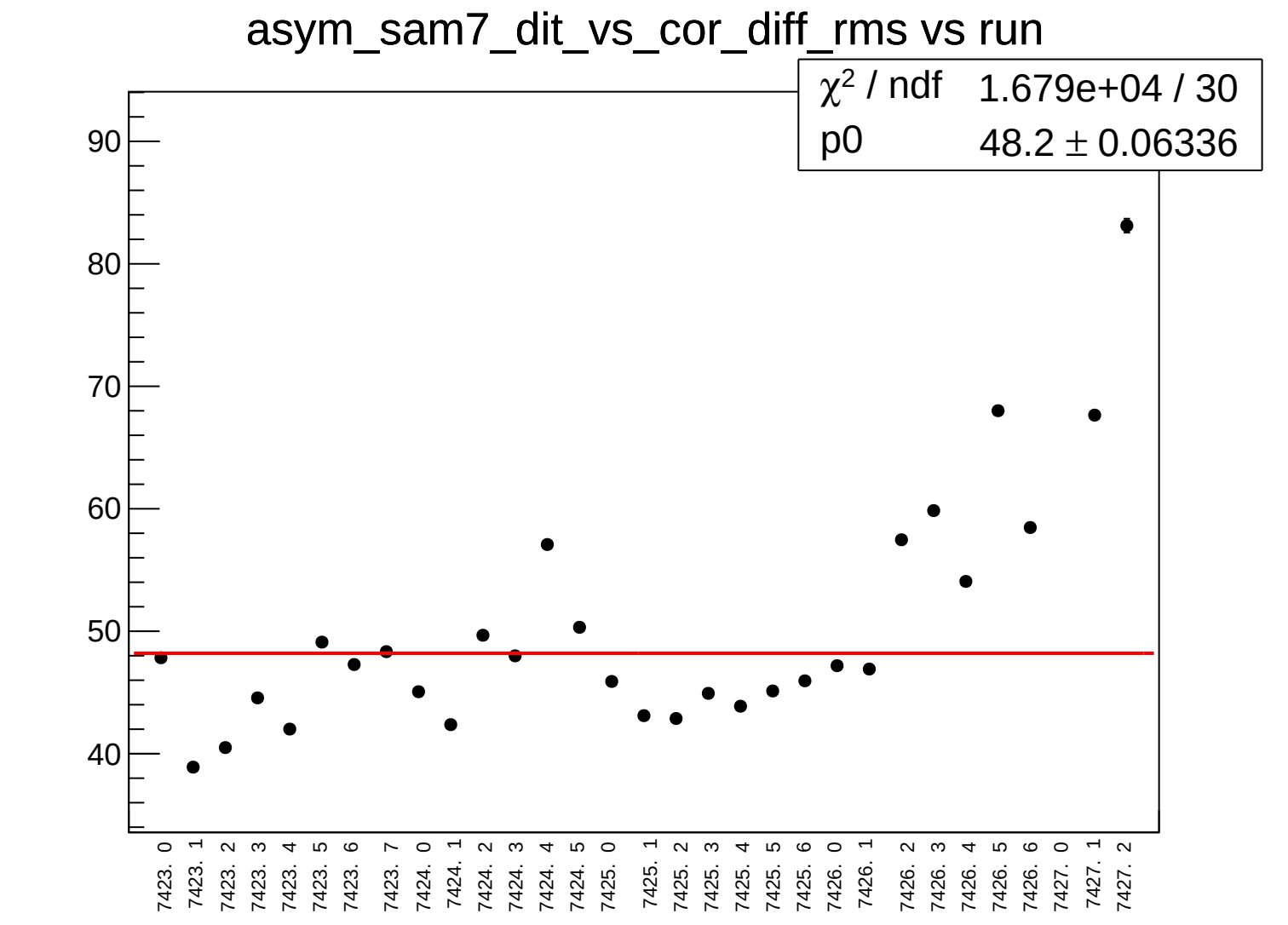

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 21.98 / 30
p0 1.264e−14 ± 2.016e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1.163
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

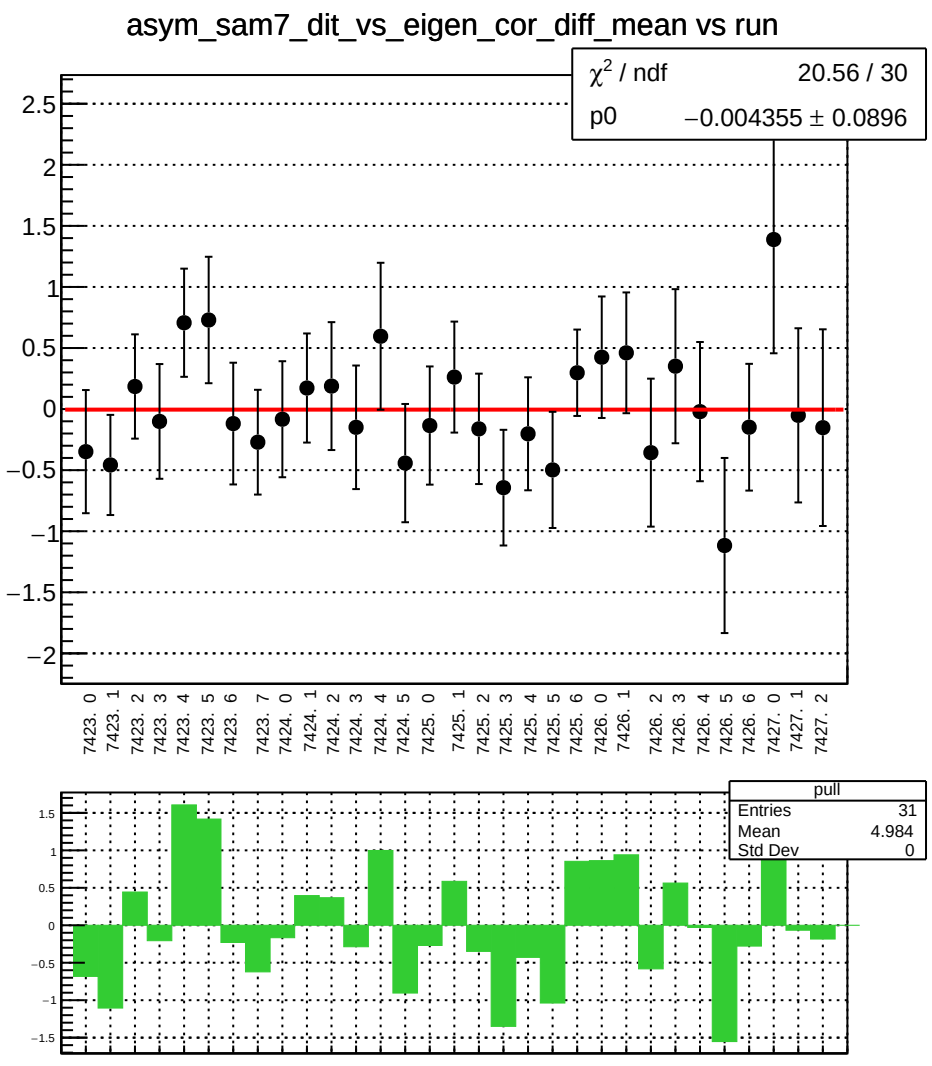

pull1D
Entries 31
Mean 0.1368
Std Dev 0.8309
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

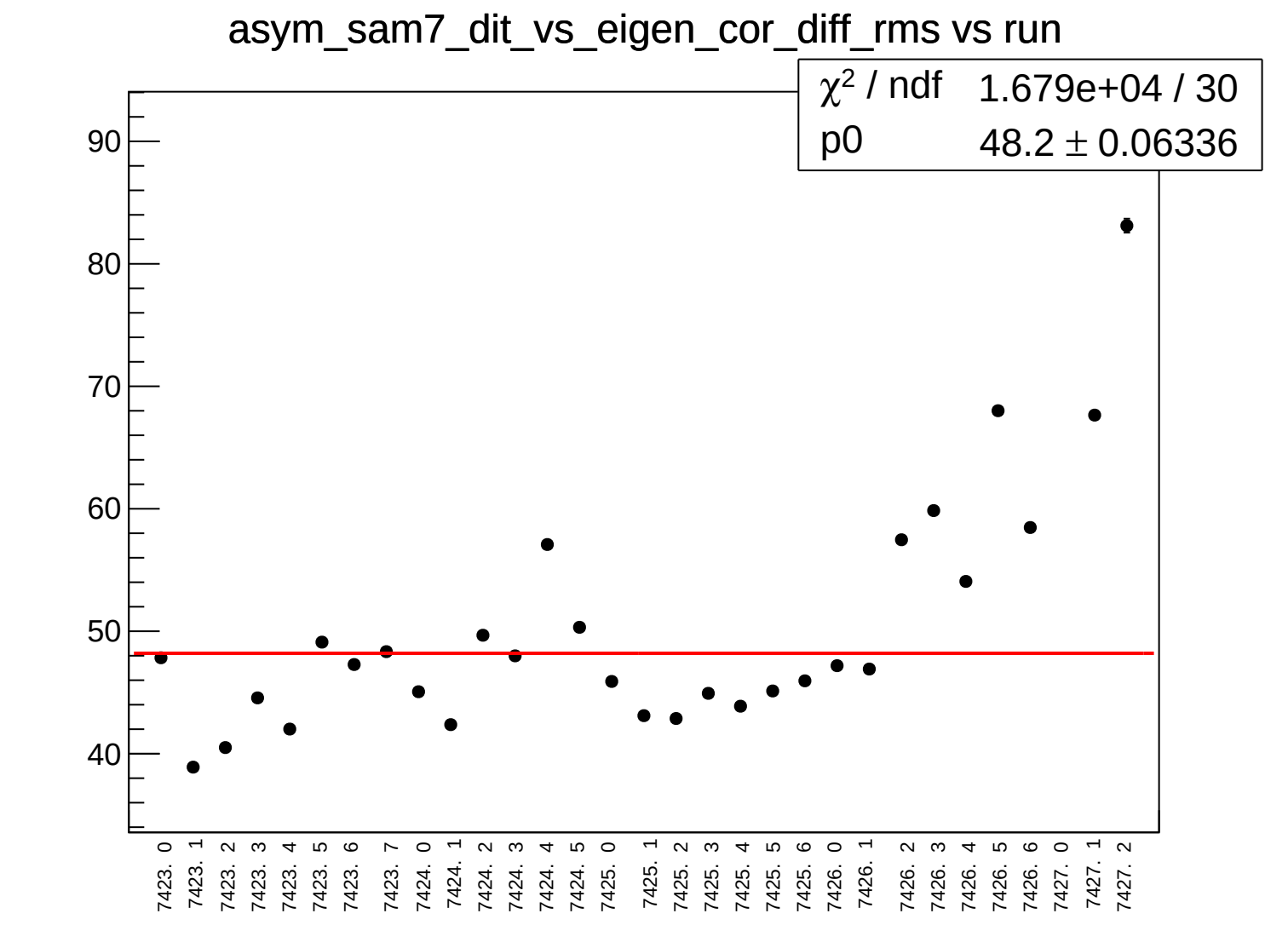

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 5.407e+05 / 30
p0 3.338e−12 ± 1.426e−14
0.05
0.04
0.03
0.02
0.01
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

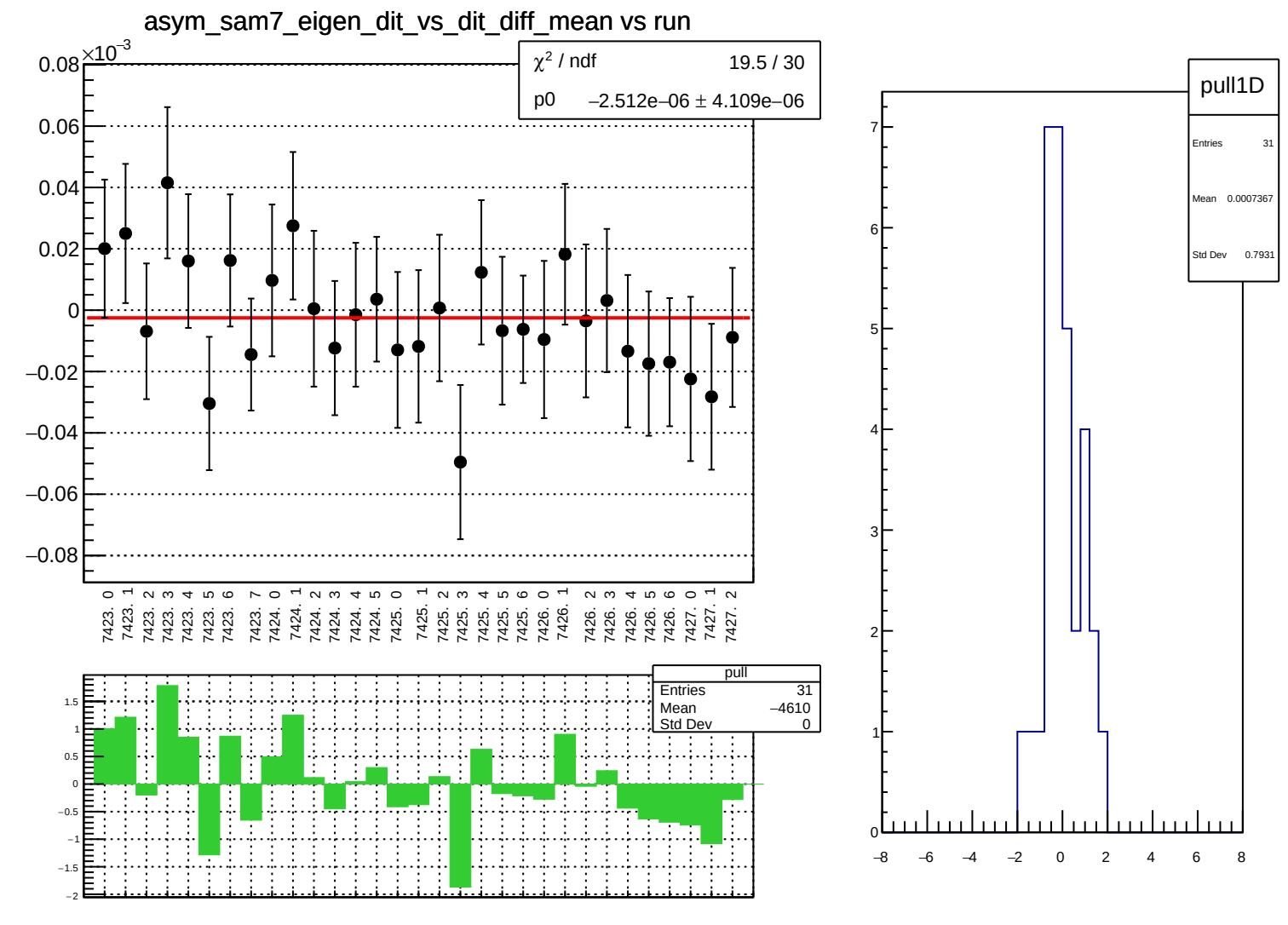

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 20.56 / 30
p0 −0.004355 ± 0.0896
pull
Entries 31
Mean 4.984
Std Dev 0

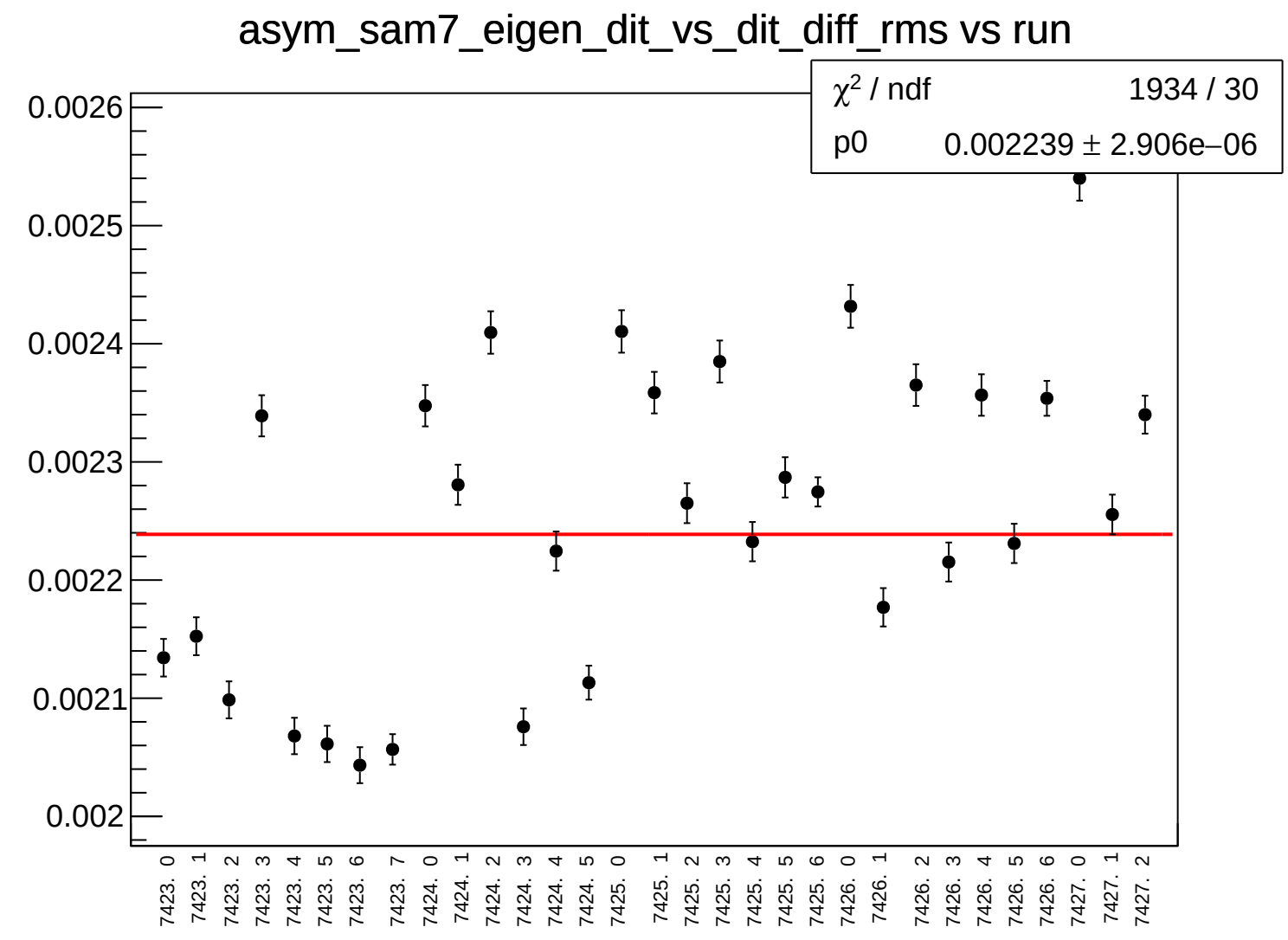

pull1D
Entries 31
Mean 0.006754
Std Dev 0.8144

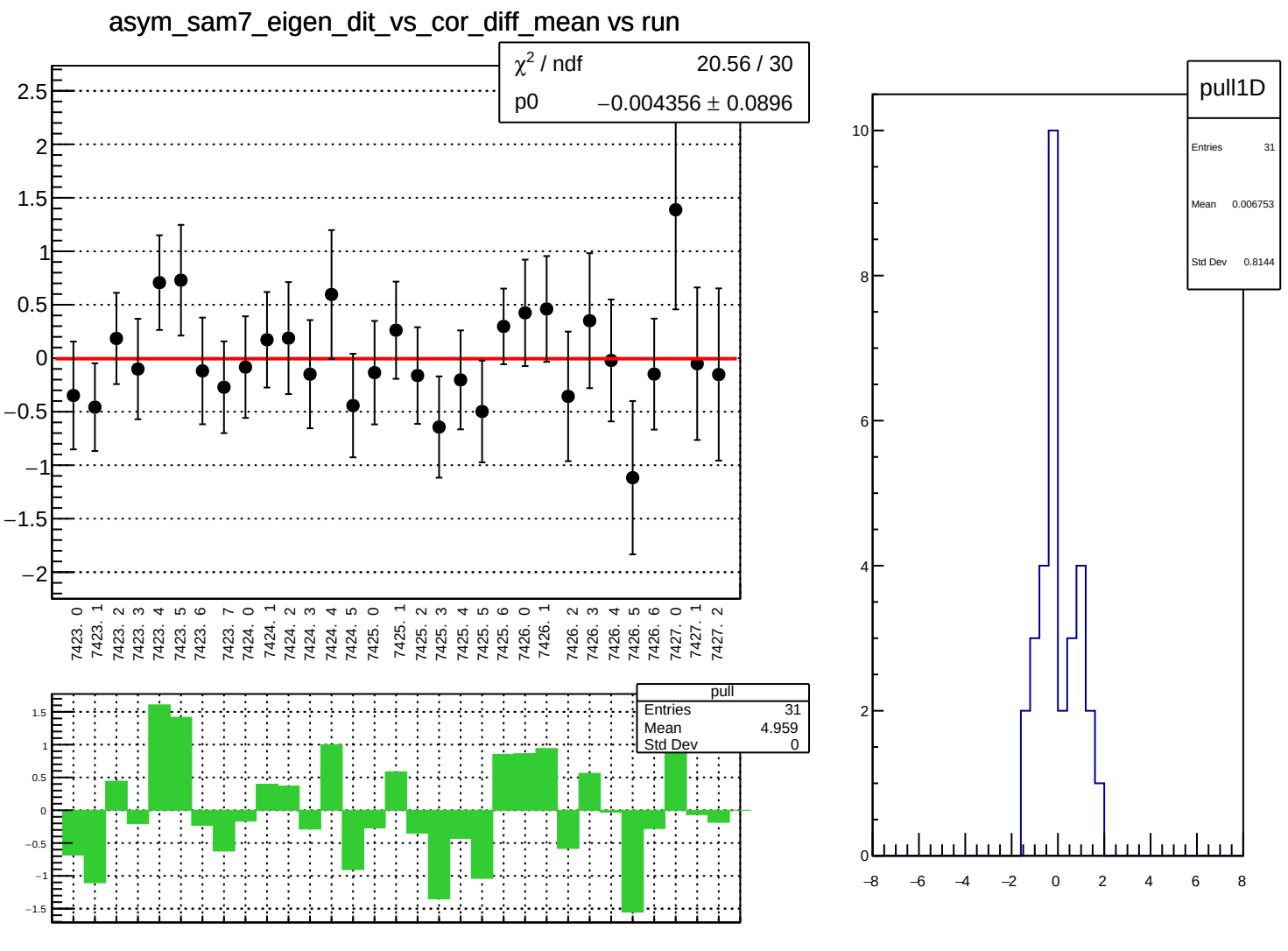

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.679e+04 / 30
p0 48.2 ± 0.06336
90
80
70
60
50
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

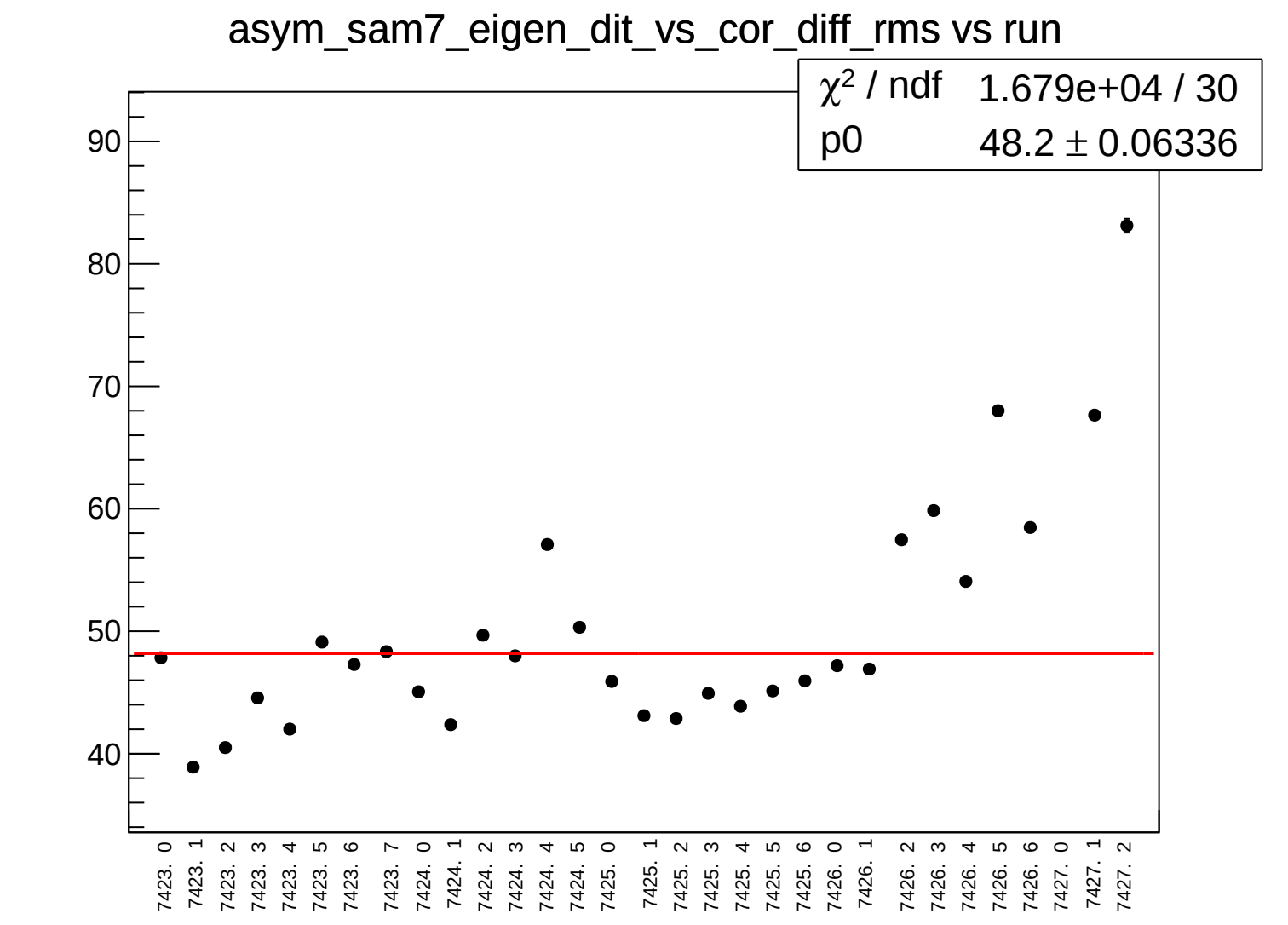

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.56 / 30
p0 −0.004355 ± 0.0896
pull
Entries 31
Mean 4.984
Std Dev 0
pull1D
Entries 31
Mean 0.006754
Std Dev 0.8144

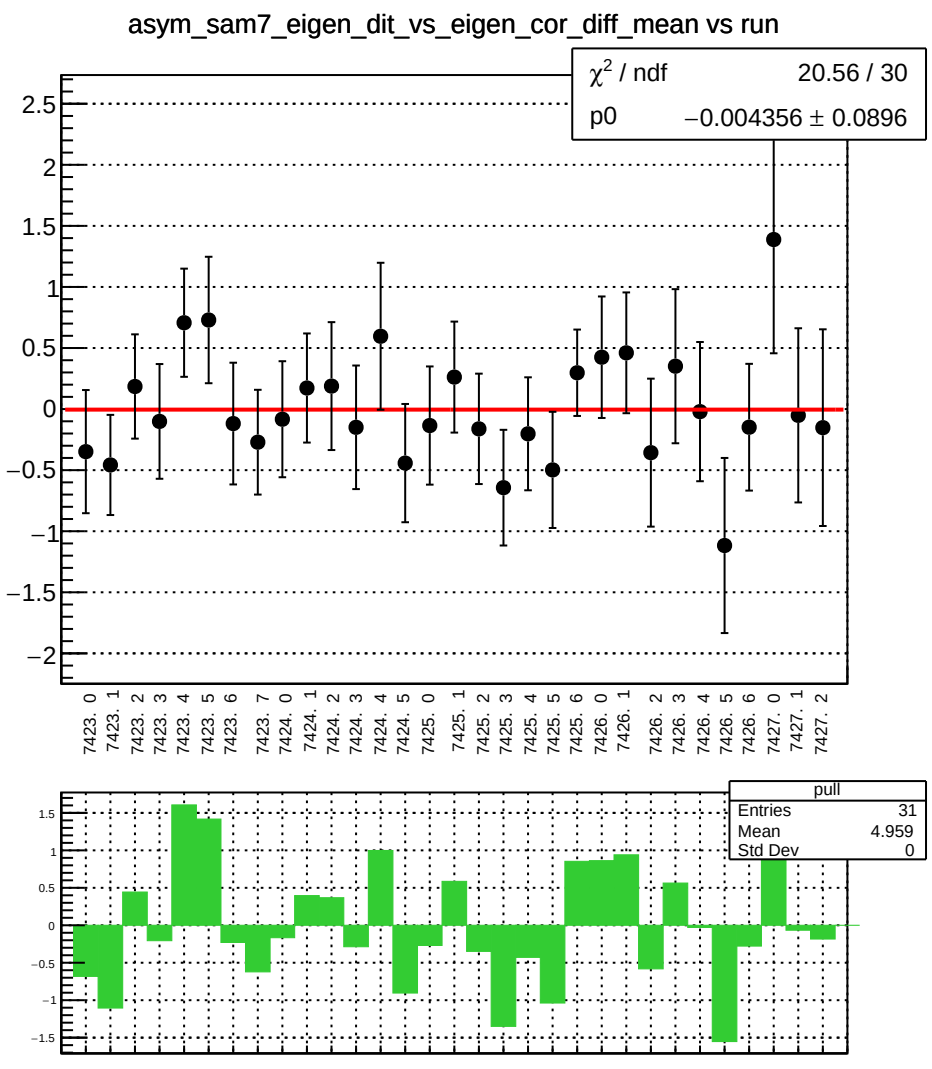

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.679e+04 / 30
p0 48.2 ± 0.06336
90
80
70
60
50
40
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

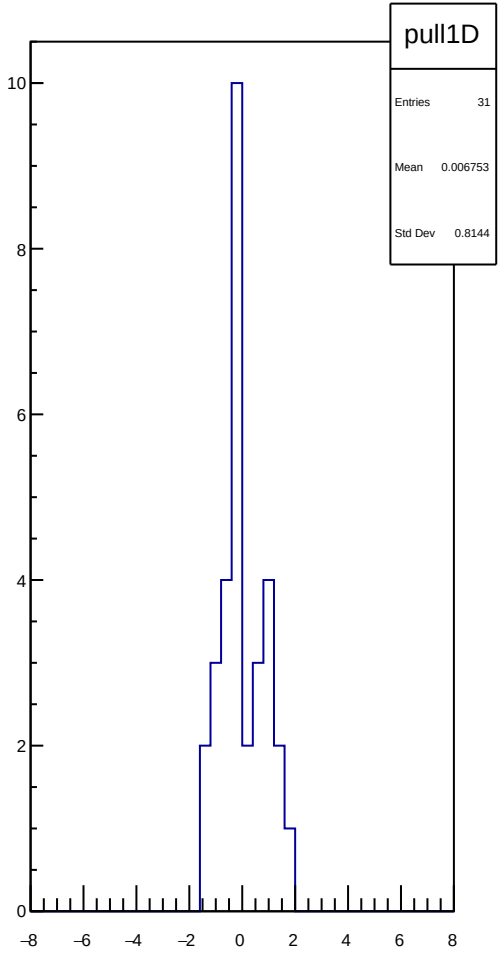

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 19.5 / 30
p0 −2.512e−06 ± 4.109e−06
×10⁻³
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −4610
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.0007367
Std Dev 0.7931
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

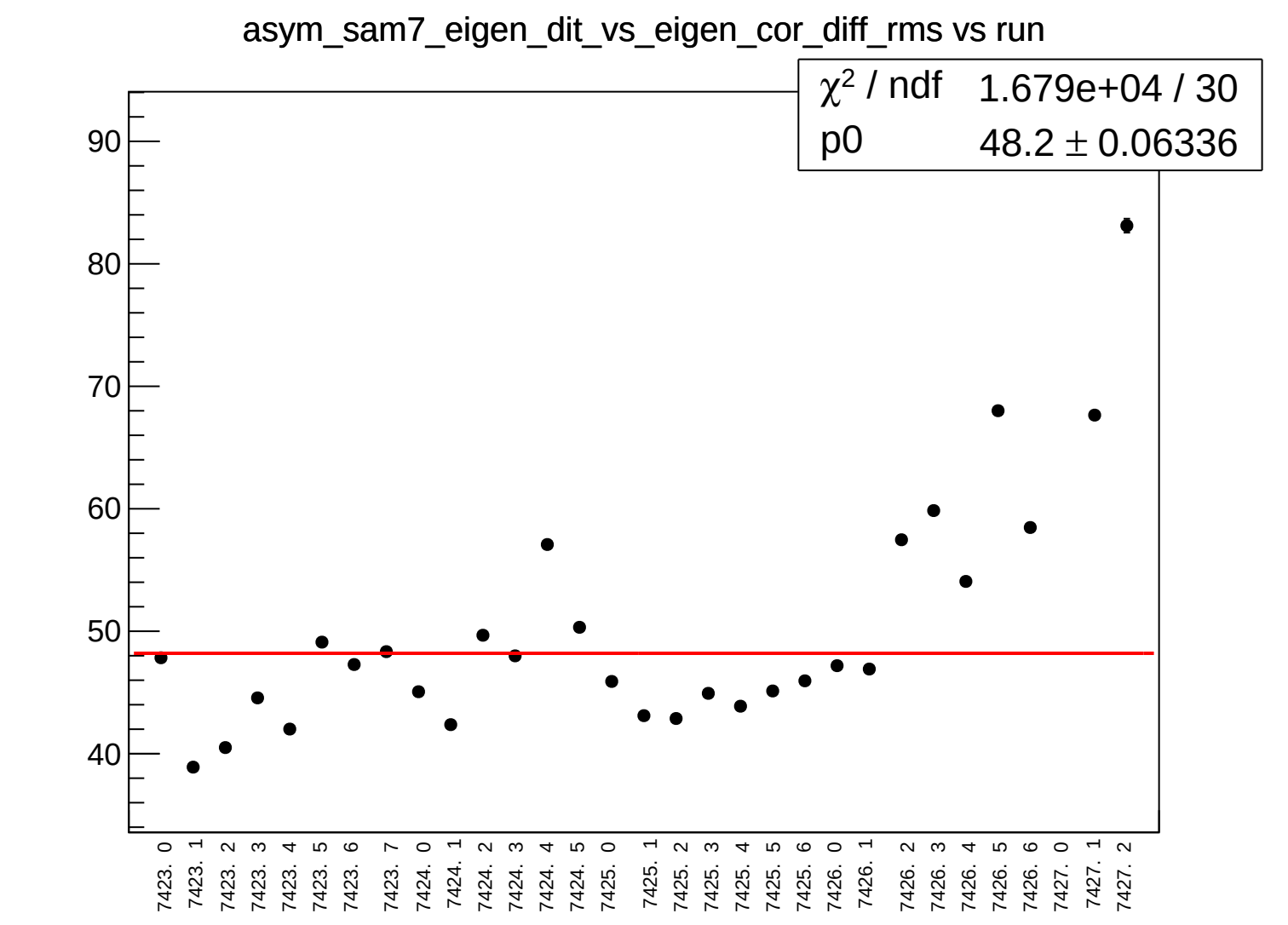

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1934 / 30
p0 0.002239 ± 2.906e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

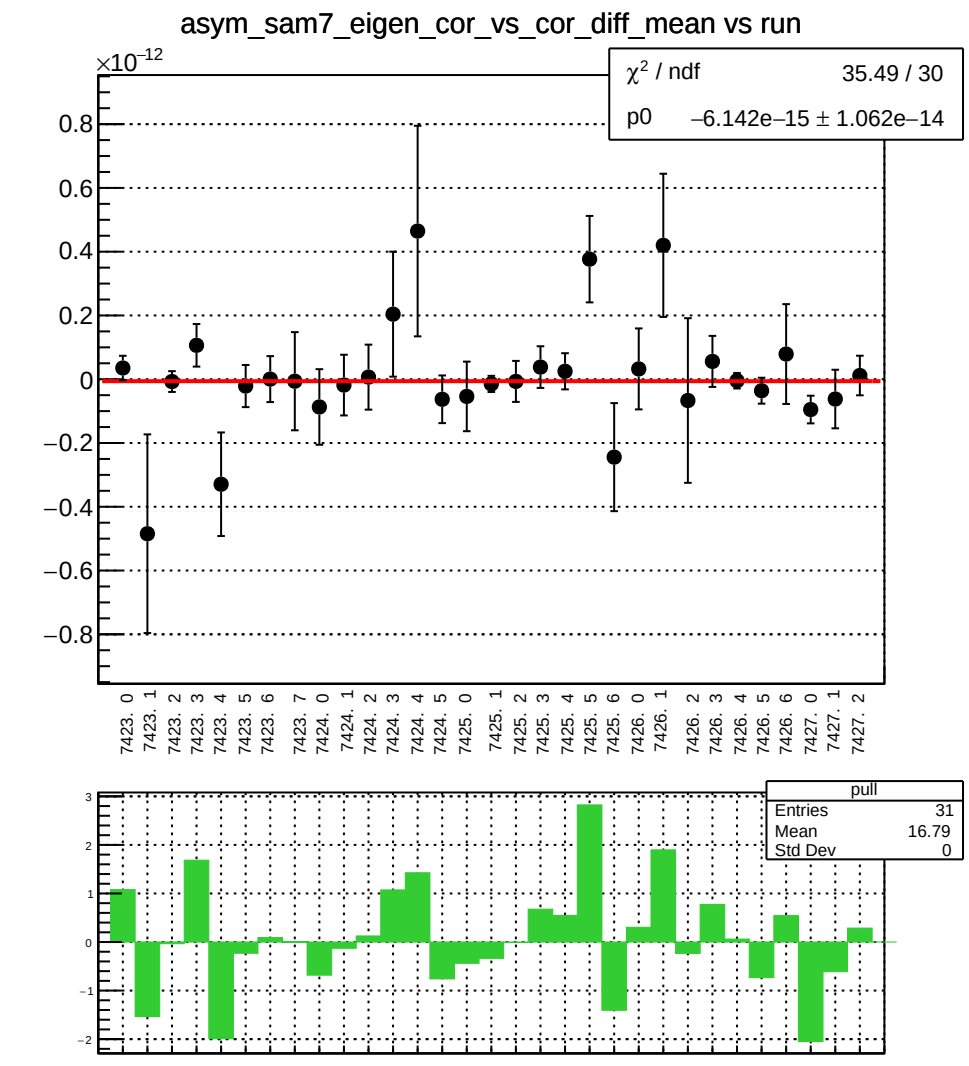

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.56 / 30
p0 −0.004356 ± 0.0896
pull
Entries 31
Mean 4.959
Std Dev 0
pull1D
Entries 31
Mean 0.006753
Std Dev 0.8144

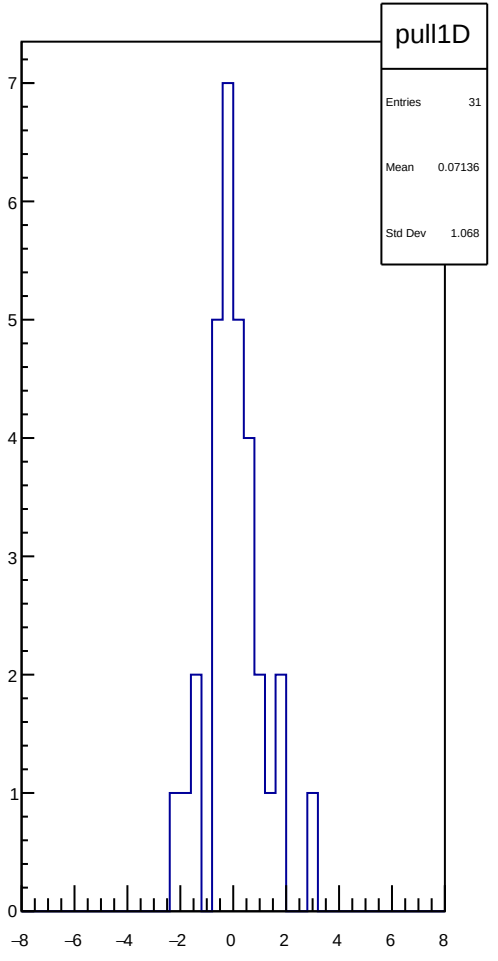

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.679e+04 / 30
p0 48.2 ± 0.06336
90
80
70
60
50
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

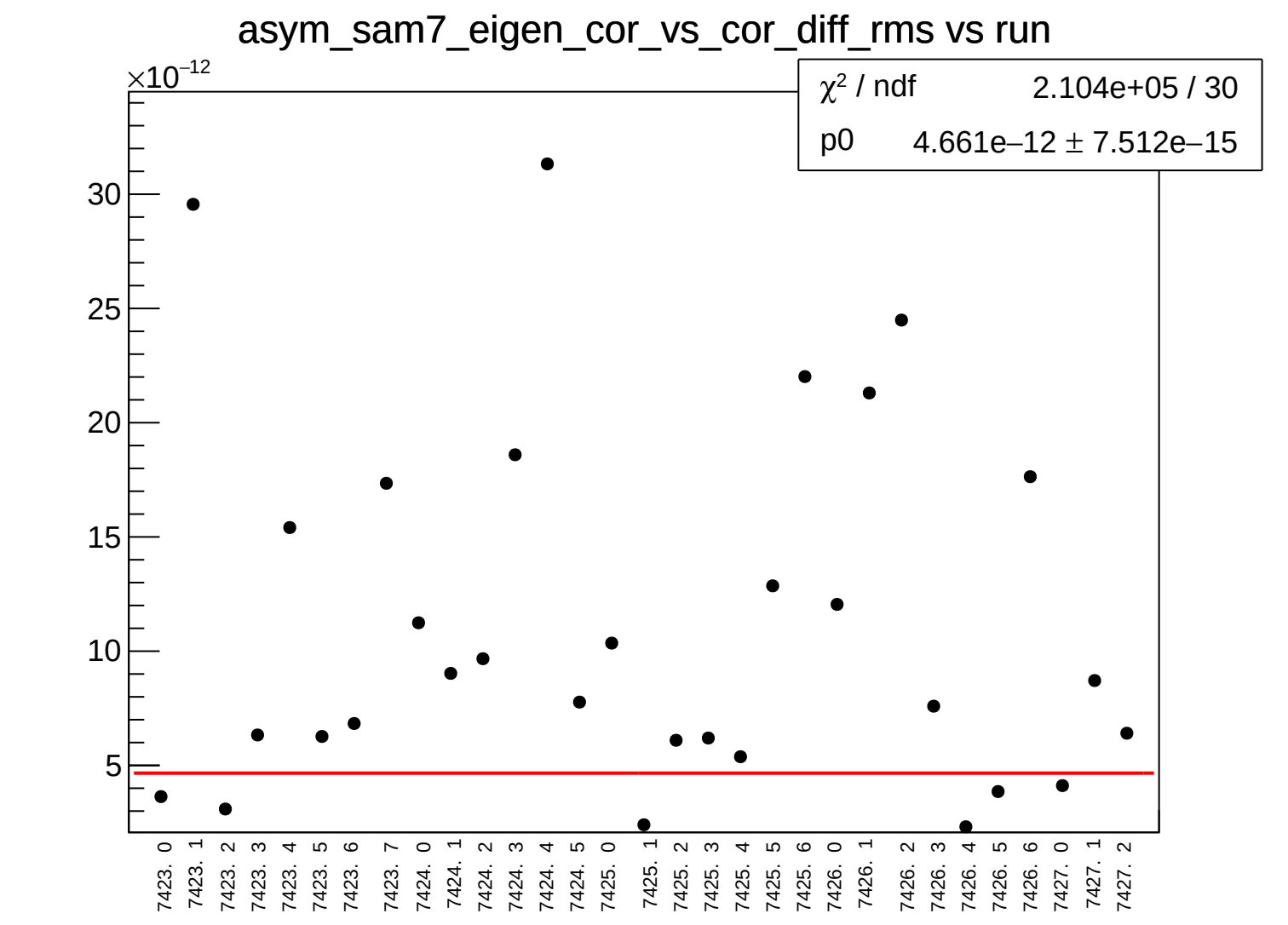

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.56 / 30
p0 −0.004356 ± 0.0896
pull
Entries 31
Mean 4.959
Std Dev 0

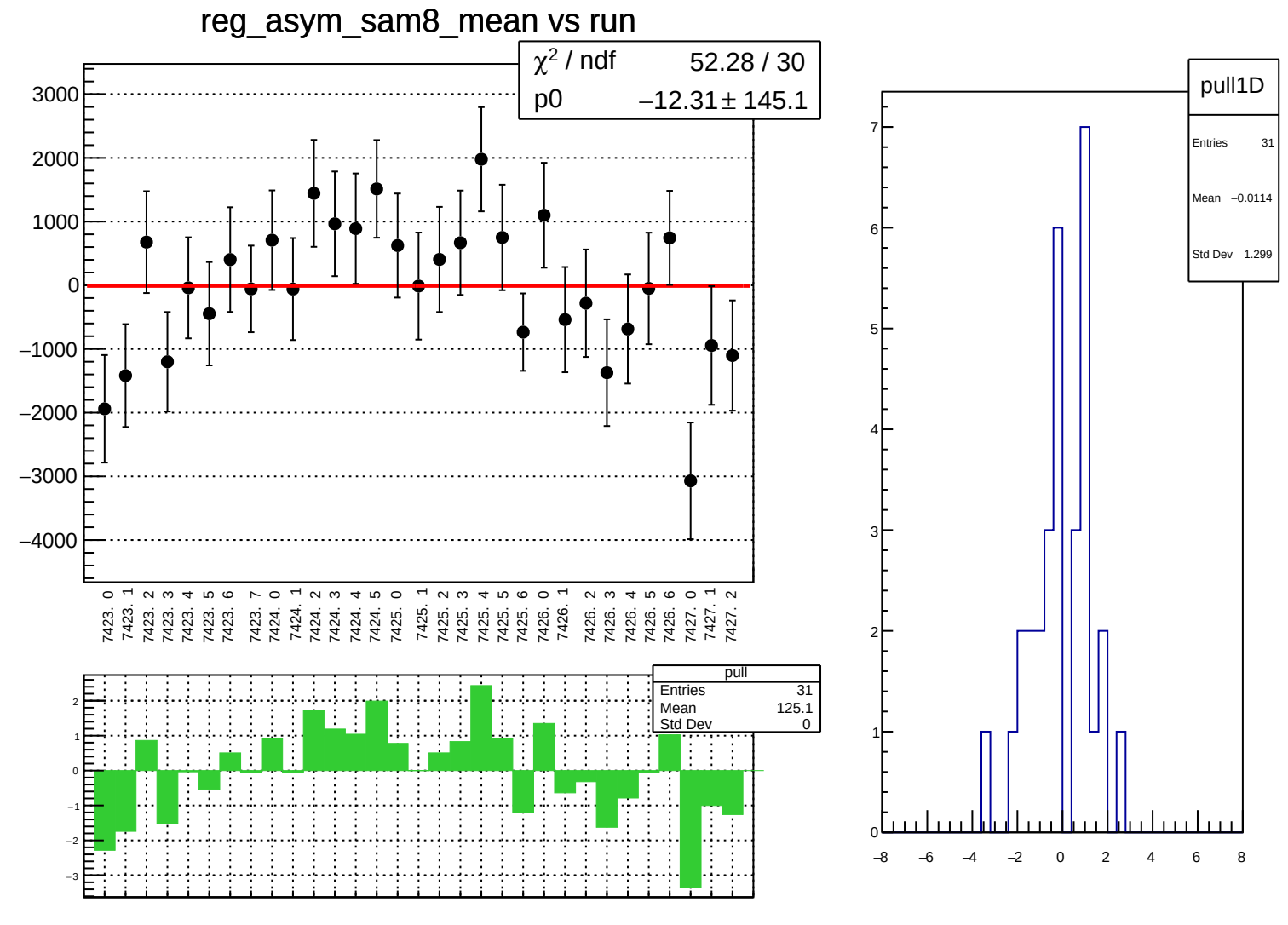

pull1D
Entries 31
Mean 0.006753
Std Dev 0.8144

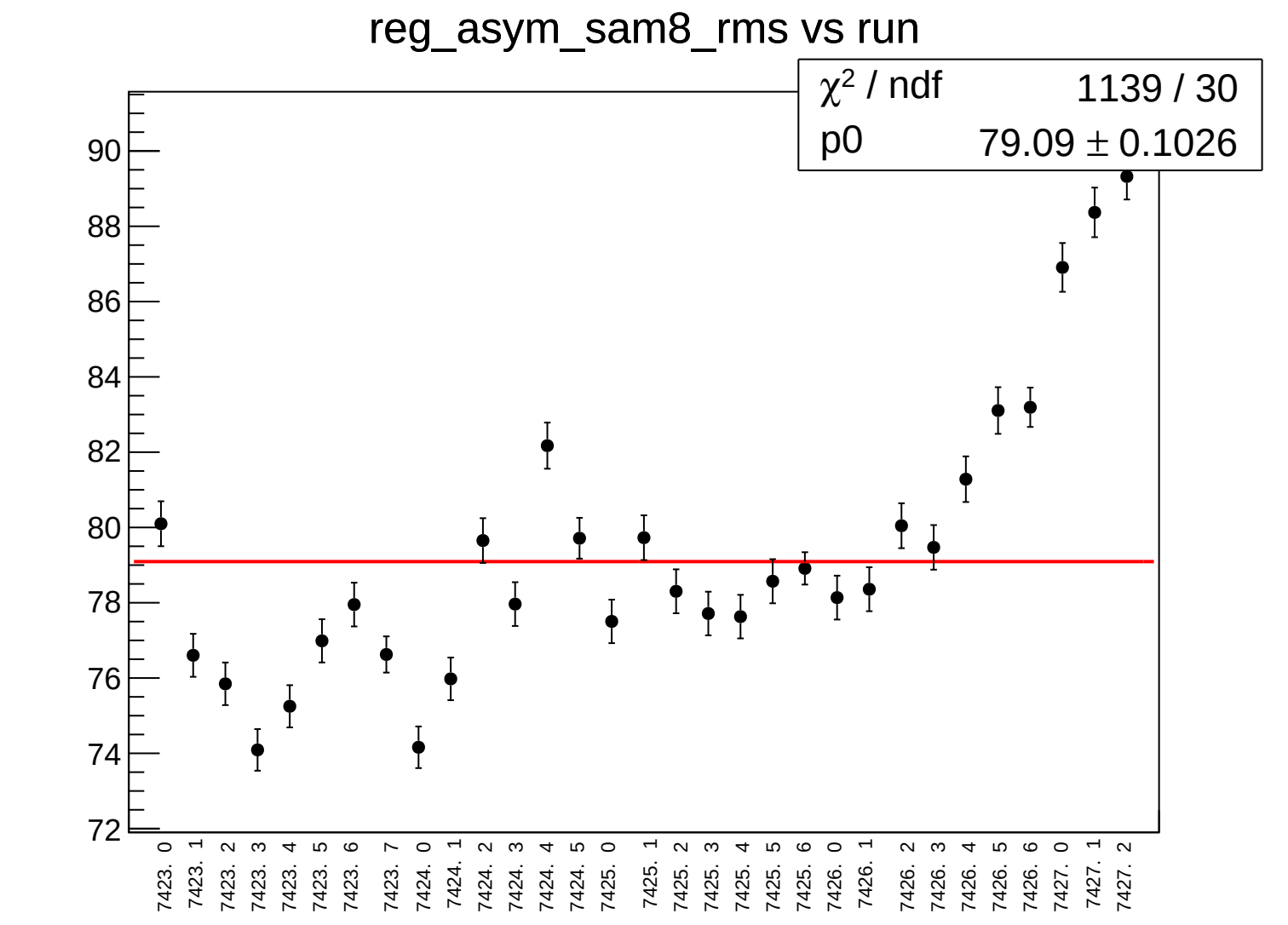

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.679e+04 / 30
p0 48.2 ± 0.06336
90
80
70
60
50
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

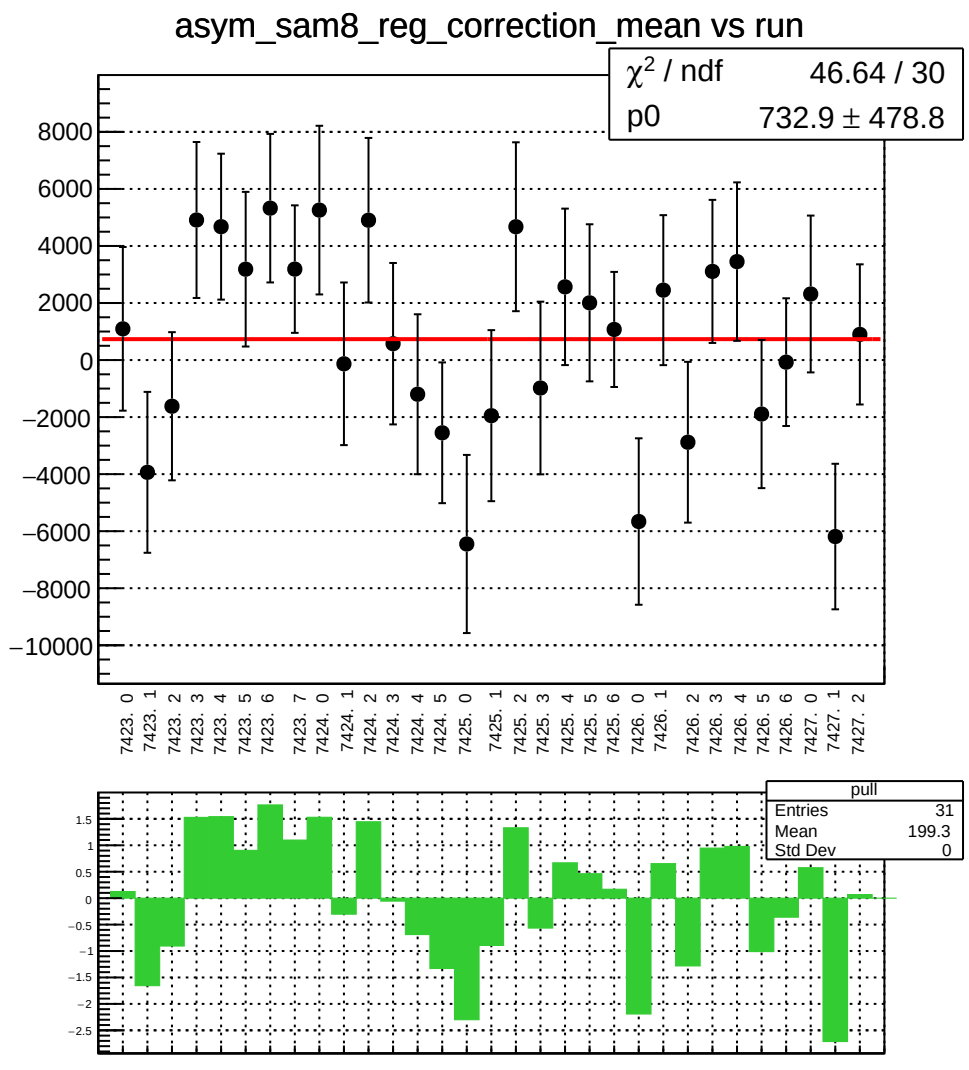

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.49 / 30
p0 −6.142e−15 ± 1.062e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.79
Std Dev 0
3
2
1
0
−1
−2

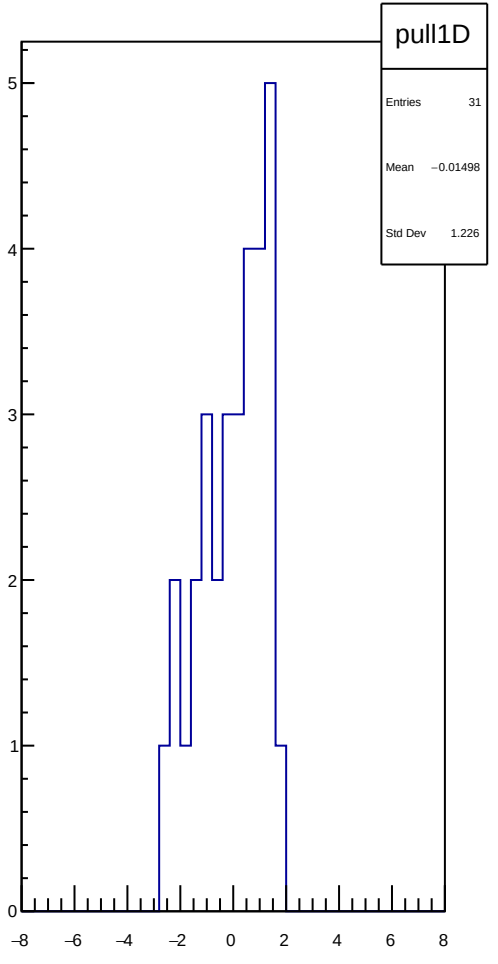

pull1D
Entries 31
Mean 0.07136
Std Dev 1.068
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

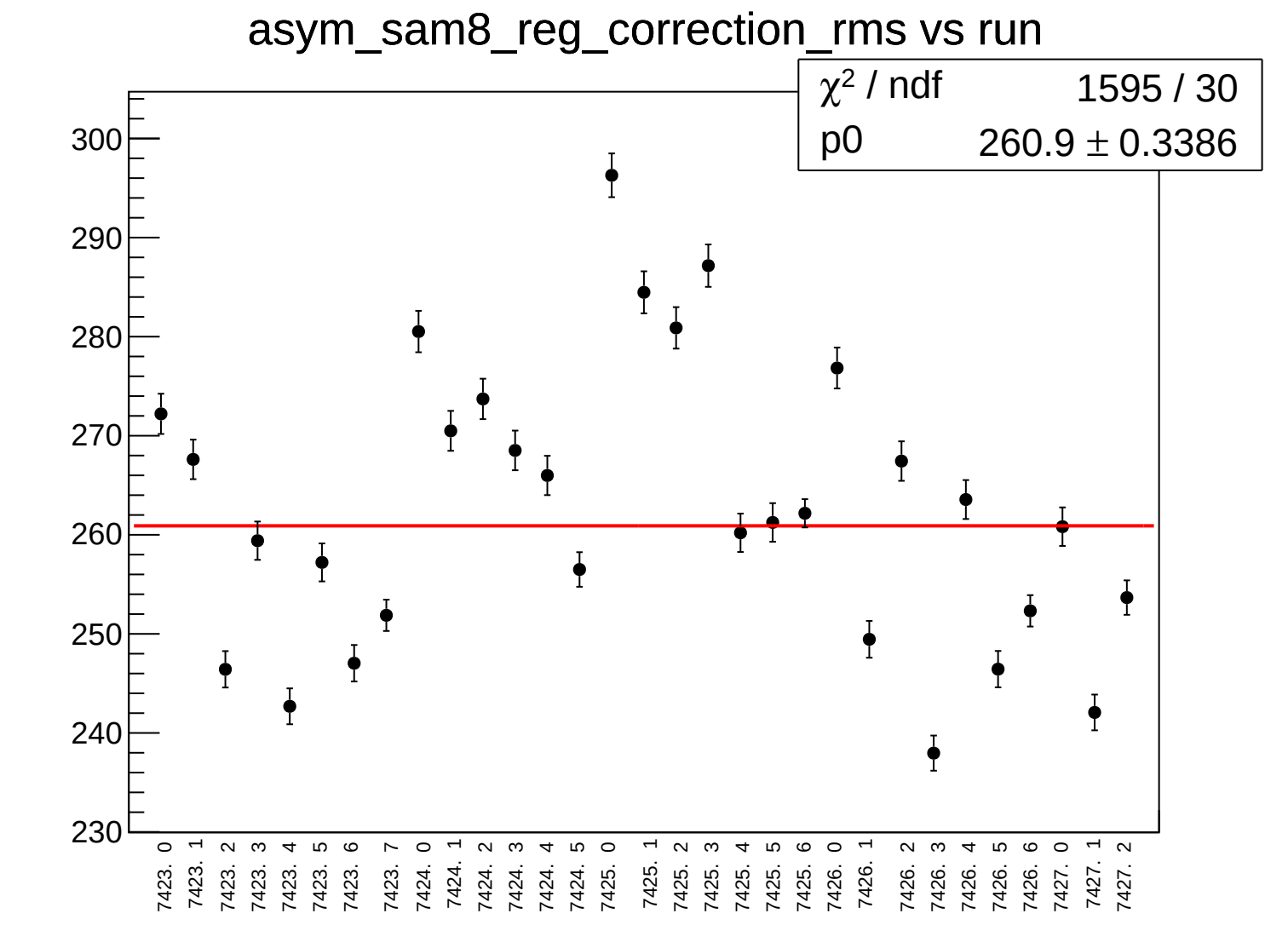

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.104e+05 / 30
p0 4.661e−12 ± 7.512e−15
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

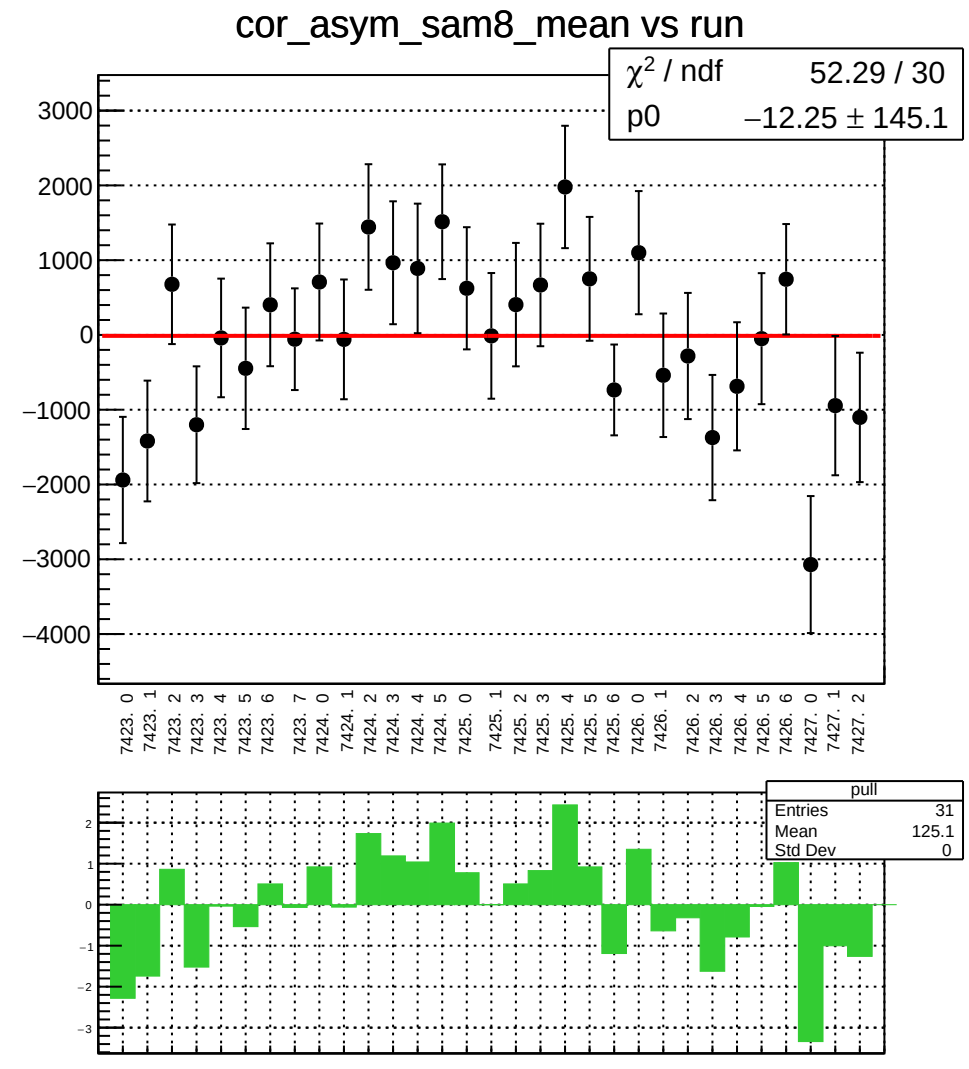

reg_asym_sam8_mean vs run
χ² / ndf 52.28 / 30
p0 −12.31 ± 145.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 125.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.0114
Std Dev 1.299
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

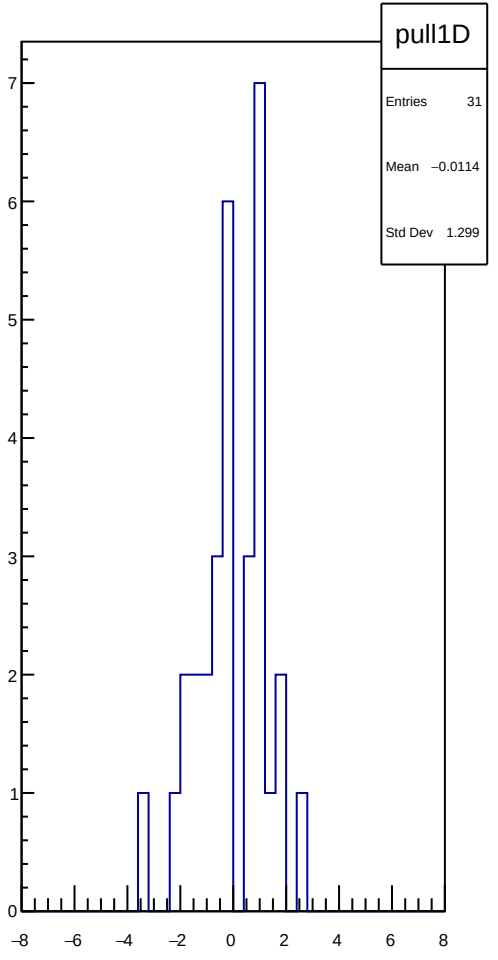

reg_asym_sam8_rms vs run
χ² / ndf 1139 / 30
p0 79.09 ± 0.1026
90
88
86
84
82
80
78
76
74
72
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

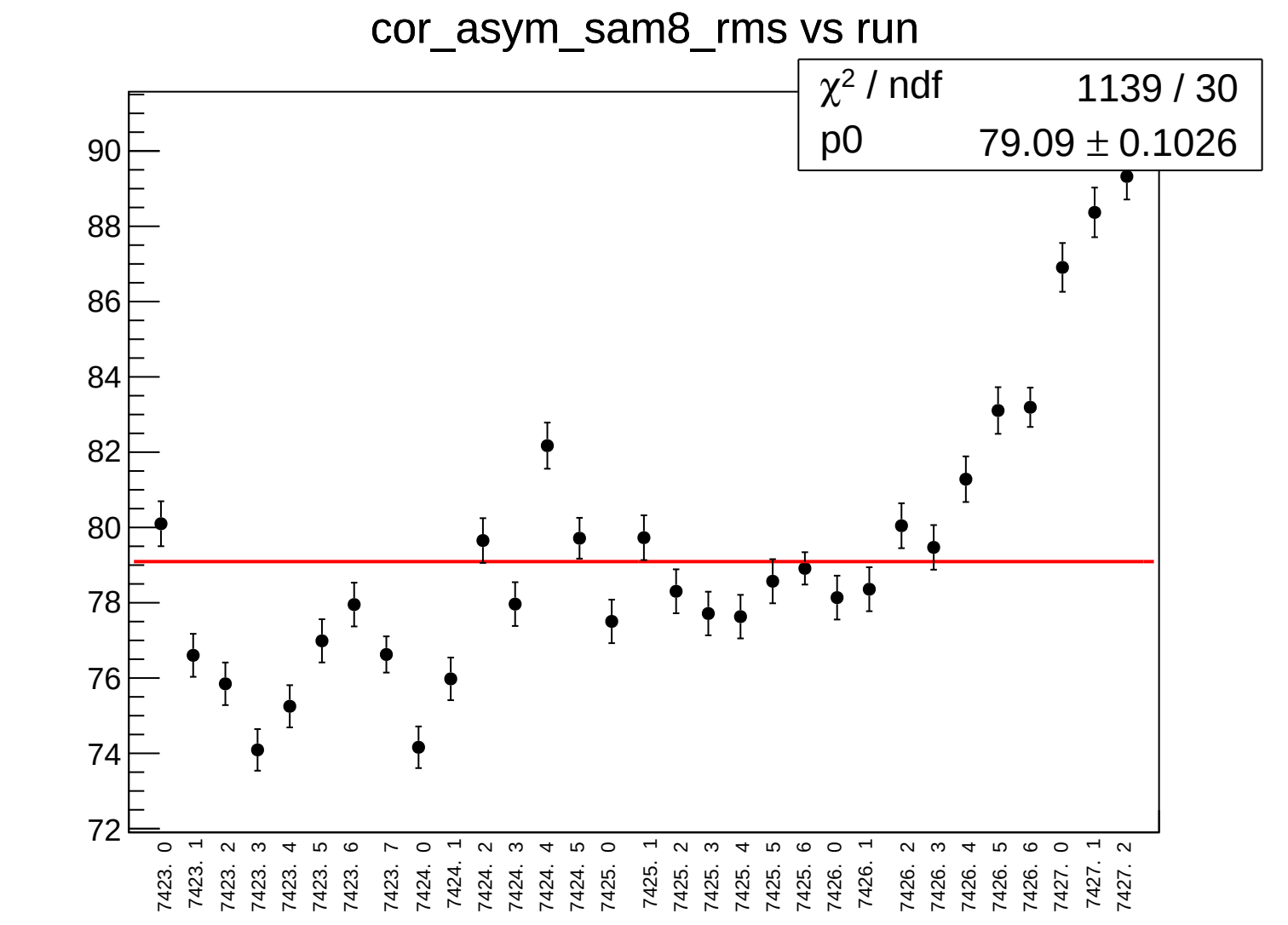

asym_sam8_reg_correction_mean vs run
χ² / ndf 46.64 / 30
p0 732.9 ± 478.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 199.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

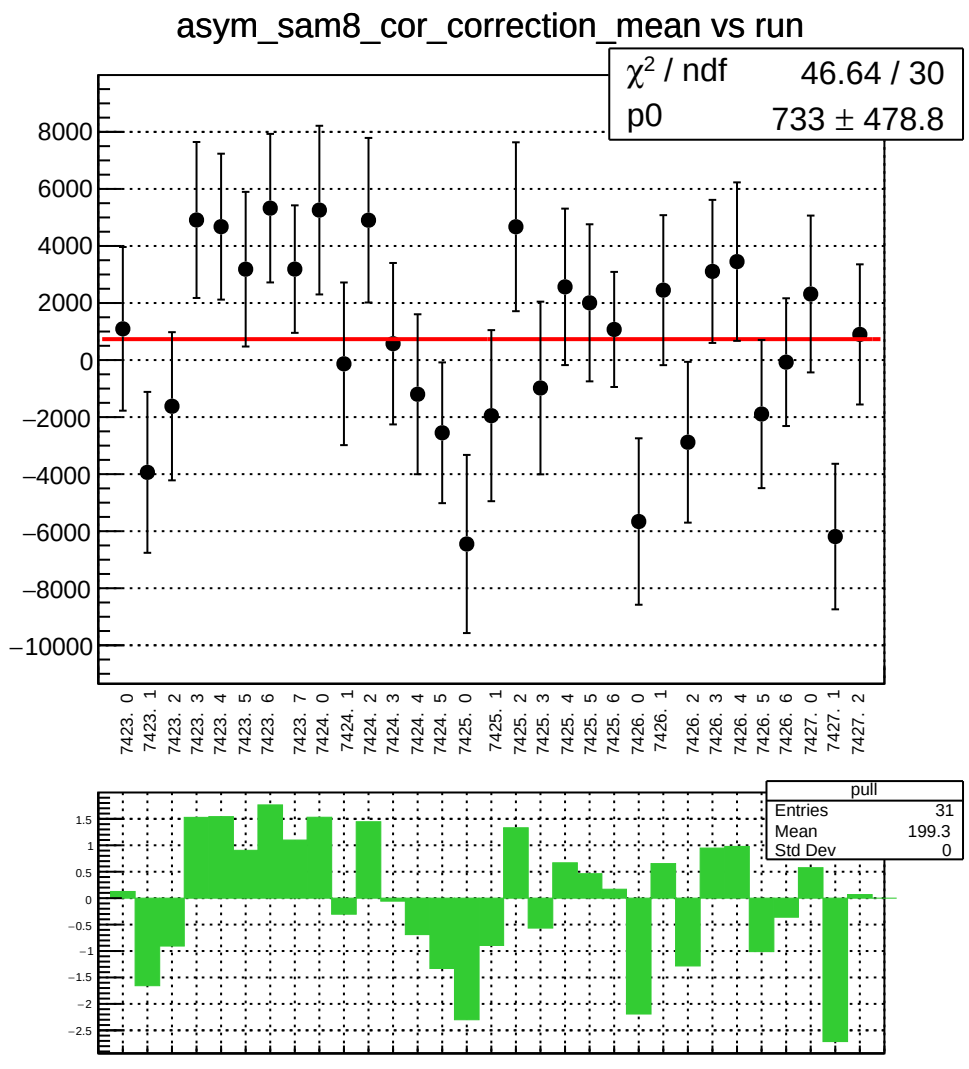

pull1D
Entries 31
Mean −0.01498
Std Dev 1.226
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

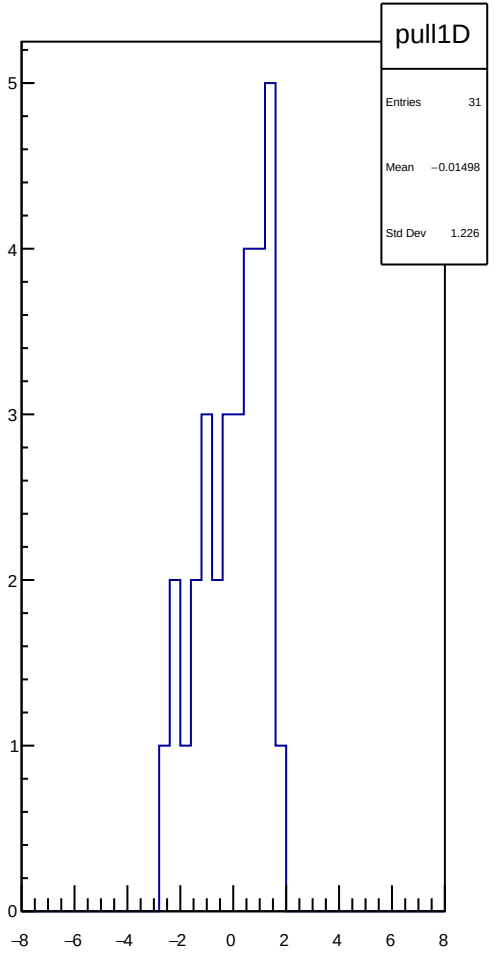

asym_sam8_reg_correction_rms vs run
χ² / ndf 1595 / 30
p0 260.9 ± 0.3386
300
290
280
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

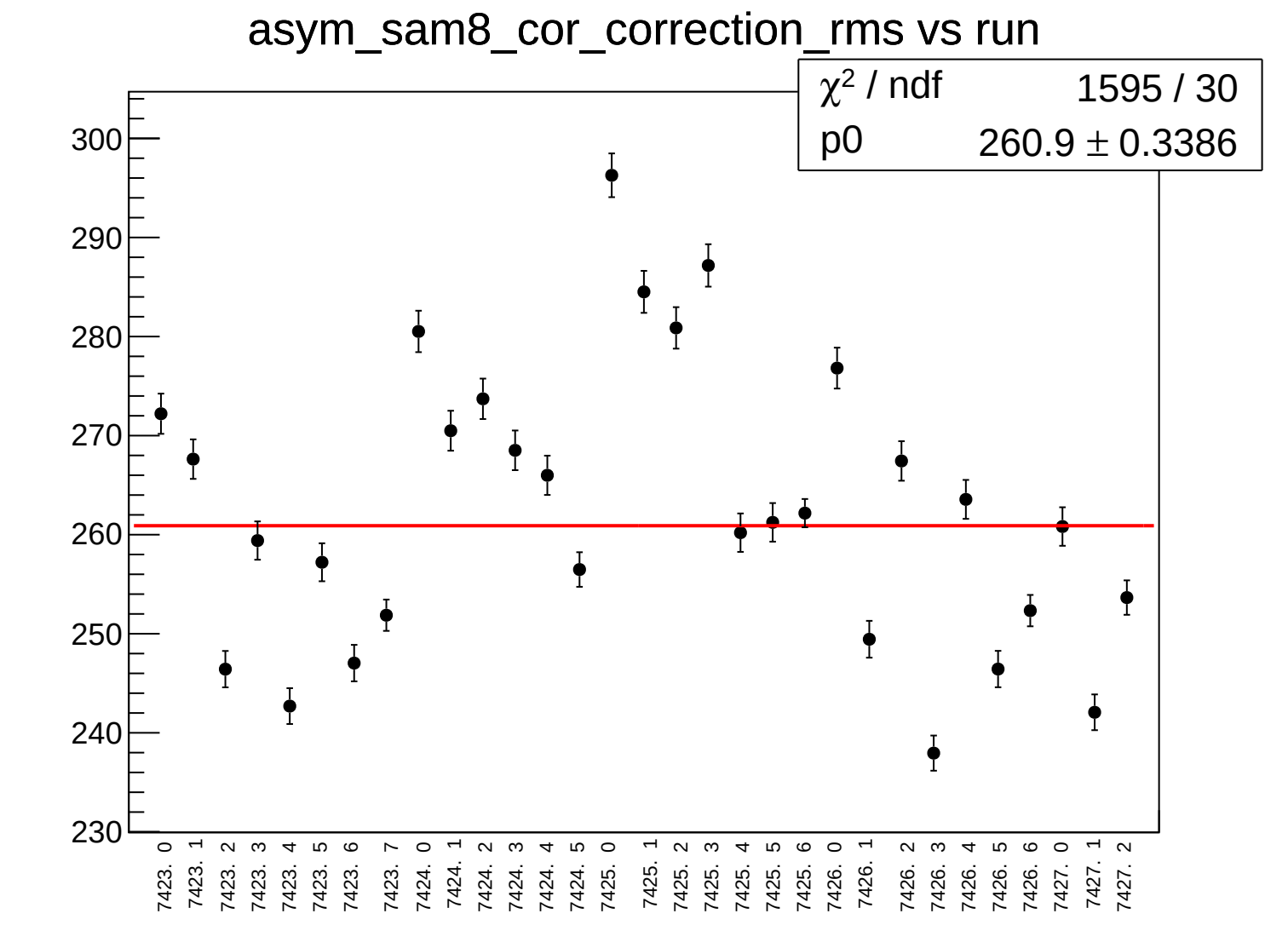

cor_asym_sam8_mean vs run
χ² / ndf 52.29 / 30
p0 −12.25 ± 145.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 125.1
Std Dev 0
2
1
0
−1
−2
−3

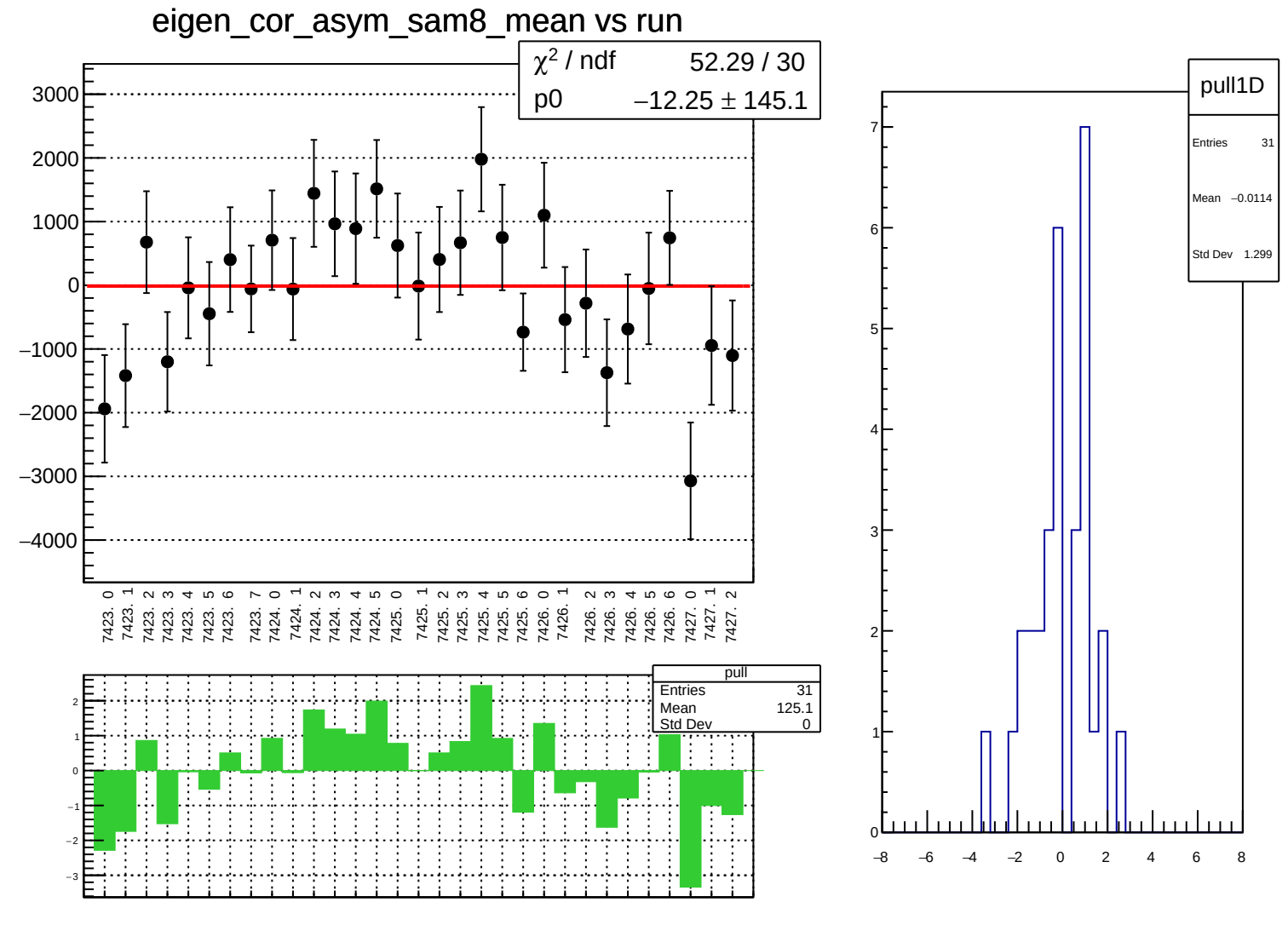

pull1D
Entries 31
Mean −0.0114
Std Dev 1.299
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

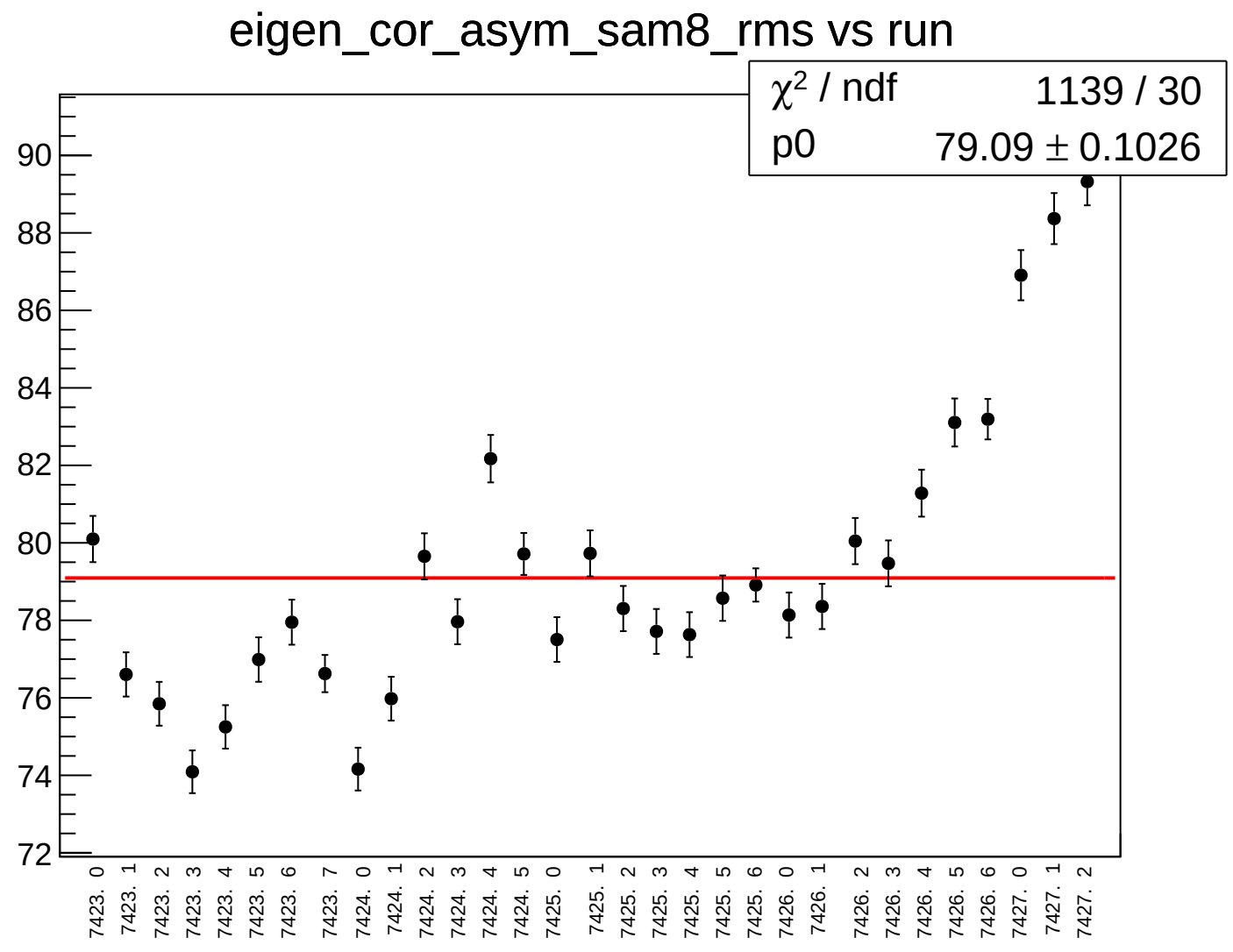

cor_asym_sam8_rms vs run
χ² / ndf 1139 / 30
p0 79.09 ± 0.1026
90
88
86
84
82
80
78
76
74
72
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

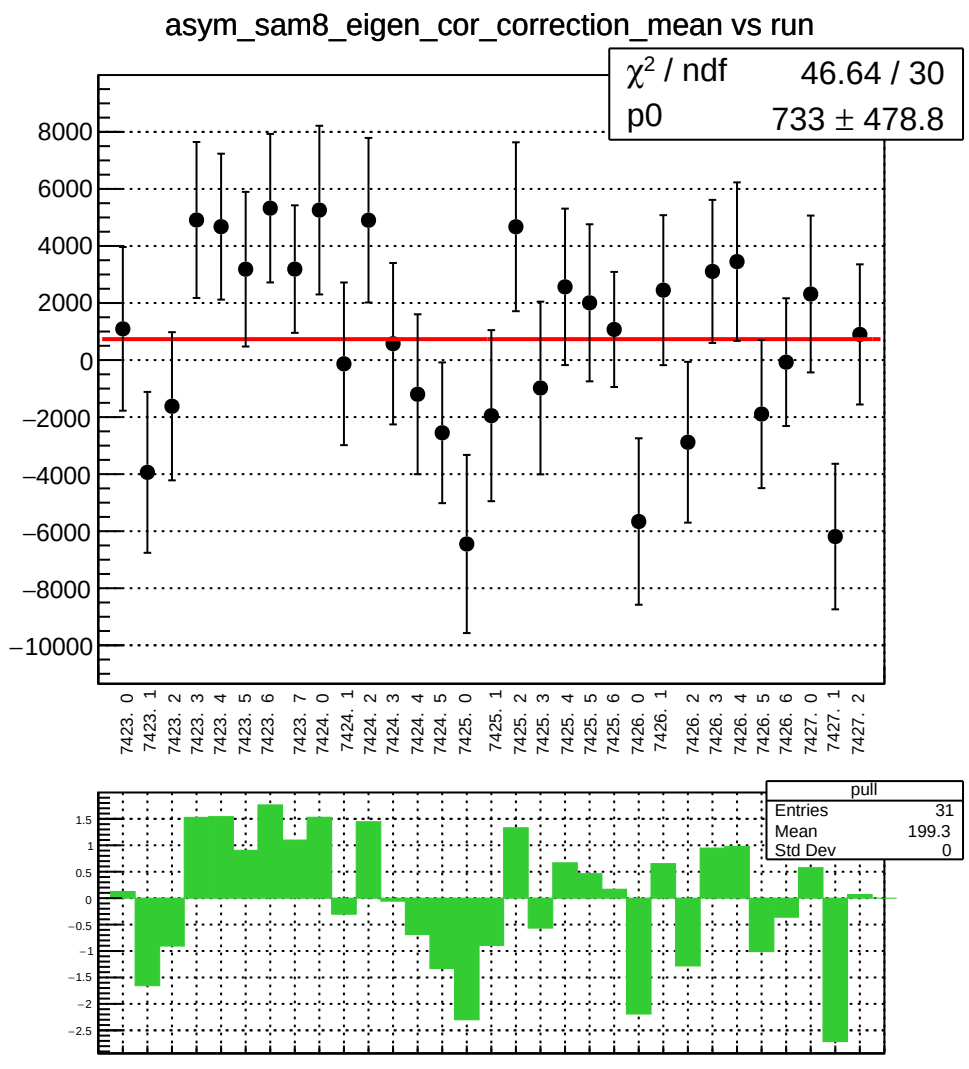

asym_sam8_cor_correction_mean vs run
χ² / ndf 46.64 / 30
p0 733 ± 478.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 199.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

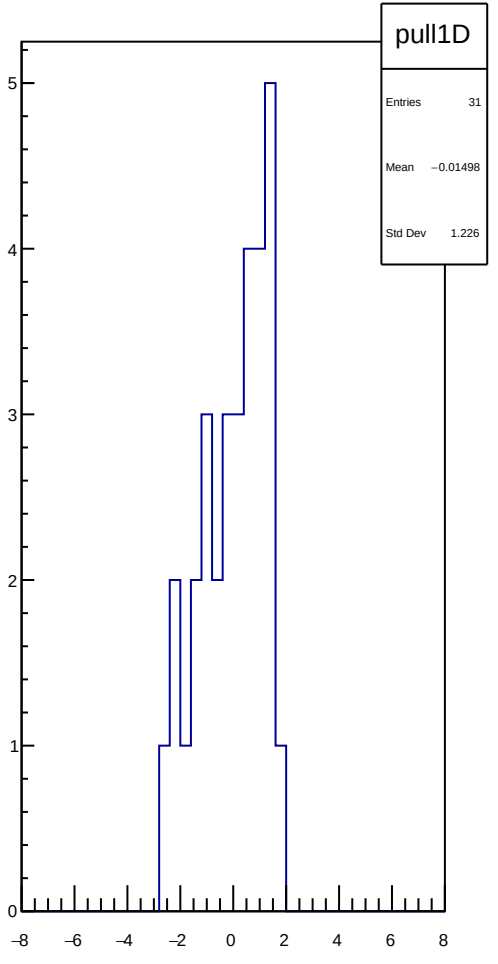

pull1D
Entries 31
Mean −0.01498
Std Dev 1.226
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

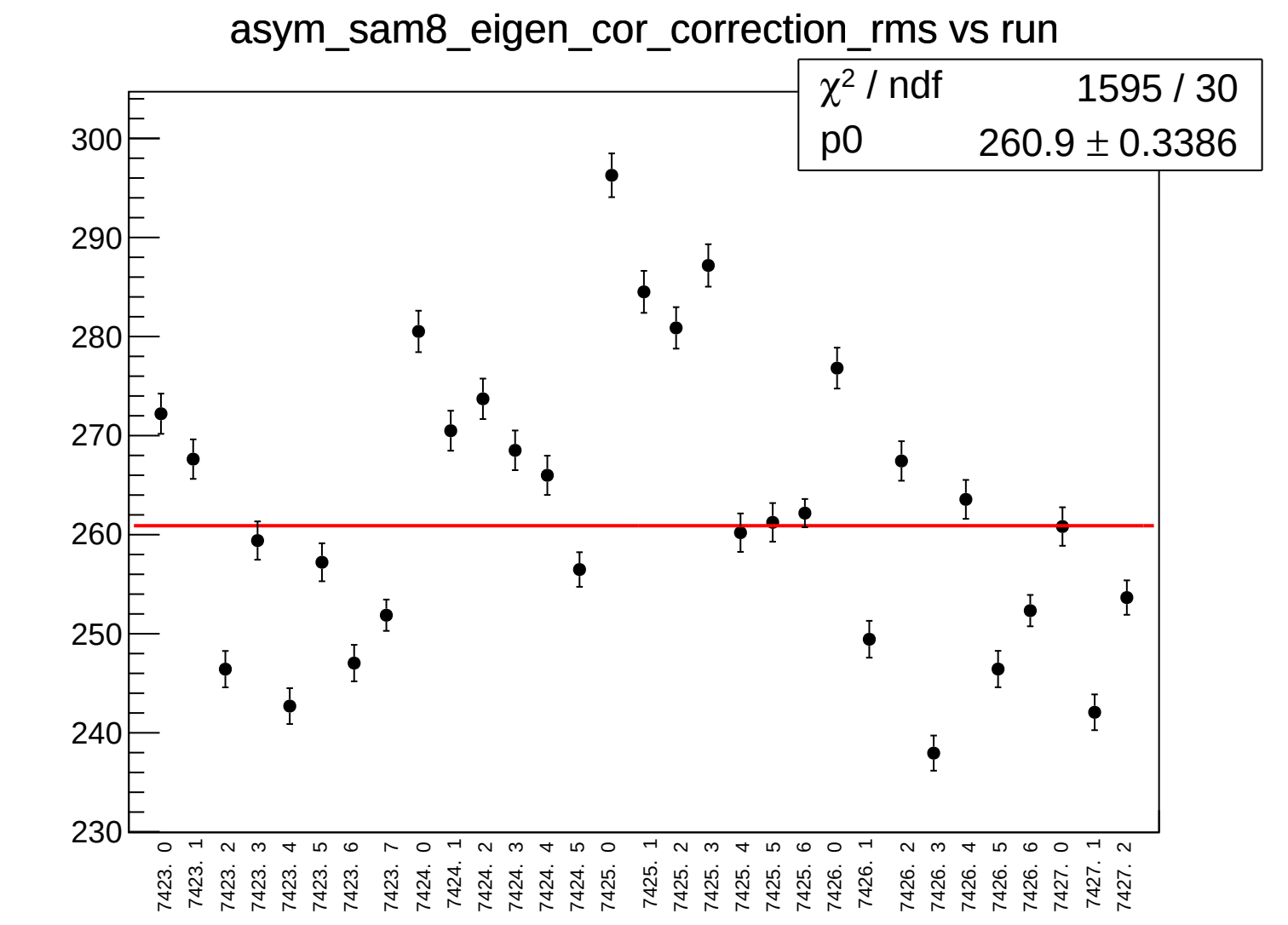

asym_sam8_cor_correction_rms vs run
χ² / ndf 1595 / 30
p0 260.9 ± 0.3386
300
290
280
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

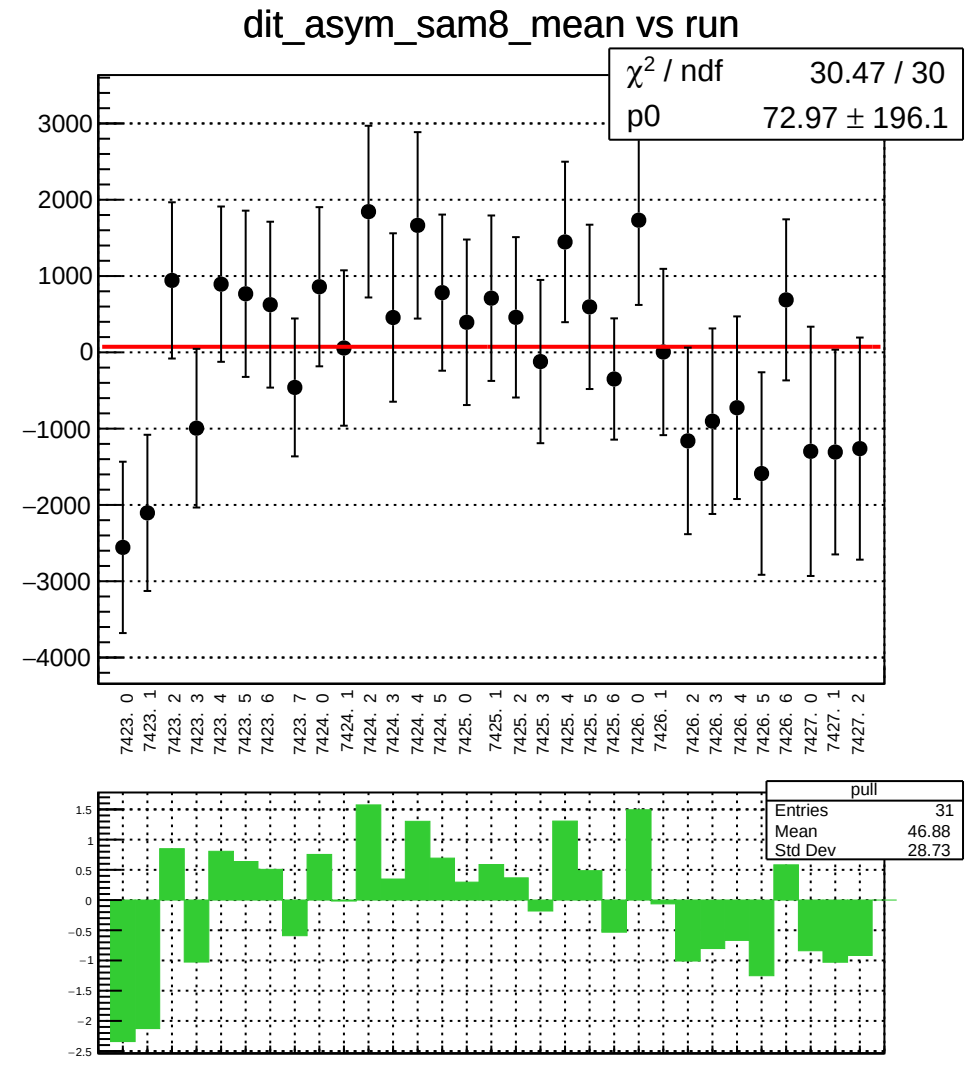

eigen_cor_asym_sam8_mean vs run
χ² / ndf 52.29 / 30
p0 −12.25 ± 145.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 125.1
Std Dev 0
pull1D
Entries 31
Mean −0.0114
Std Dev 1.299

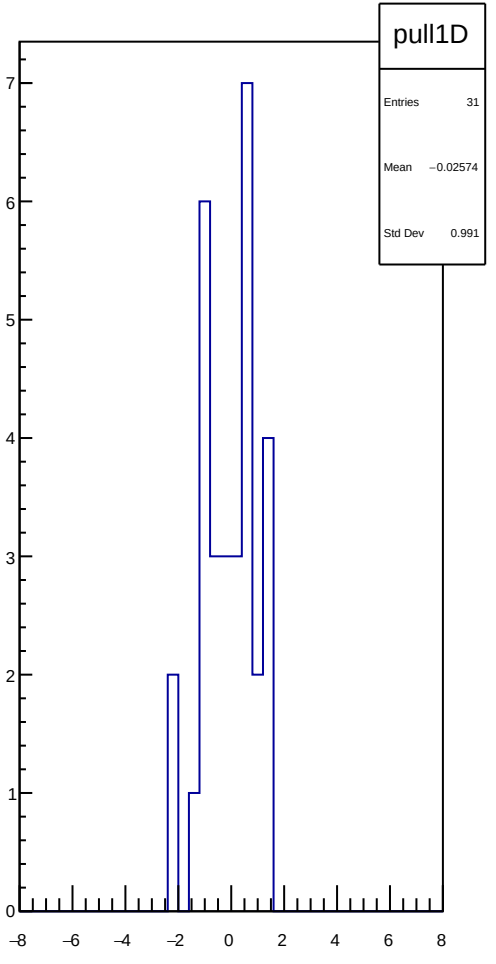

eigen_cor_asym_sam8_rms vs run
χ² / ndf 1139 / 30
p0 79.09 ± 0.1026
90
88
86
84
82
80
78
76
74
72
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

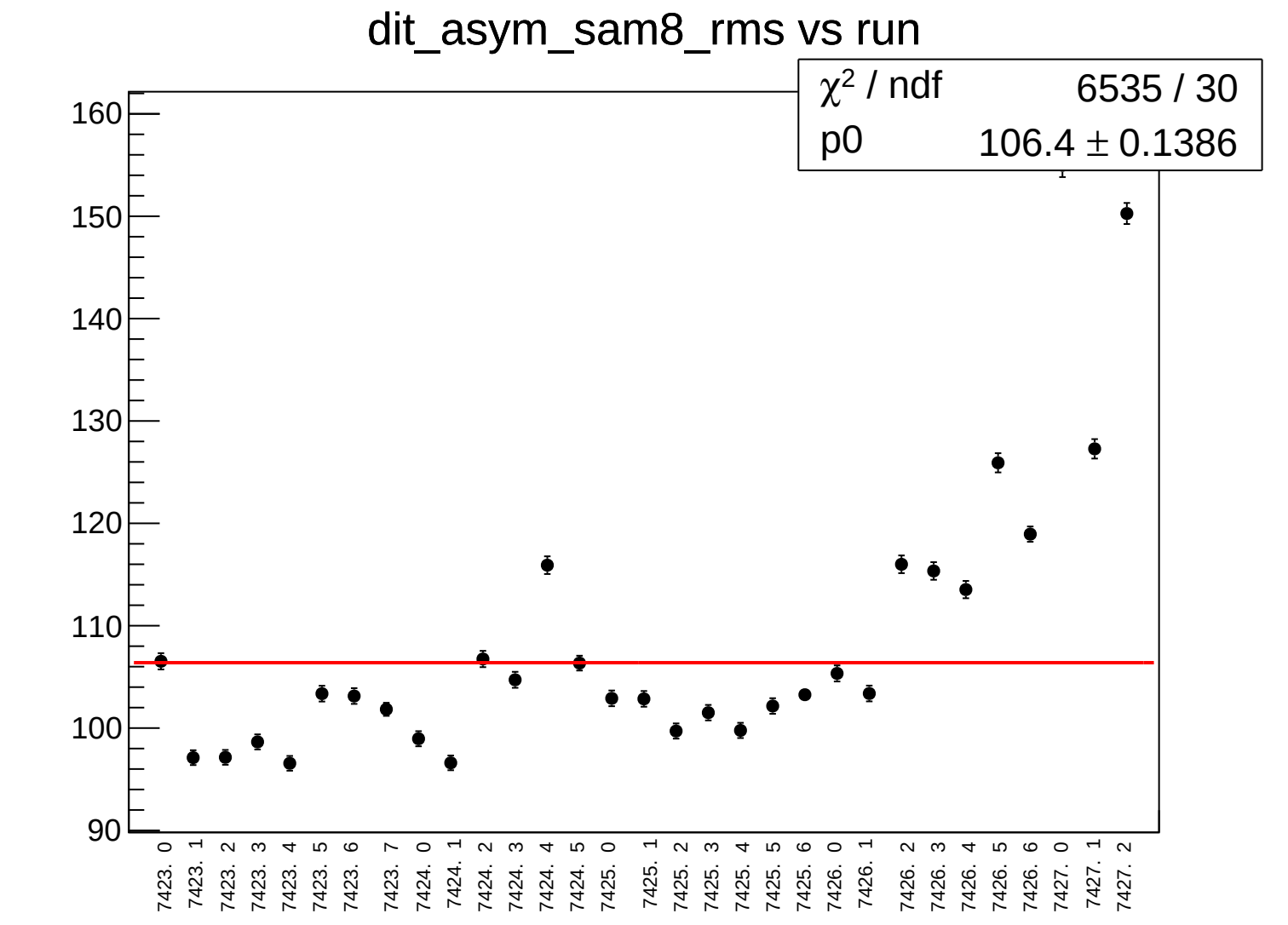

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 46.64 / 30
p0 733 ± 478.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 199.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

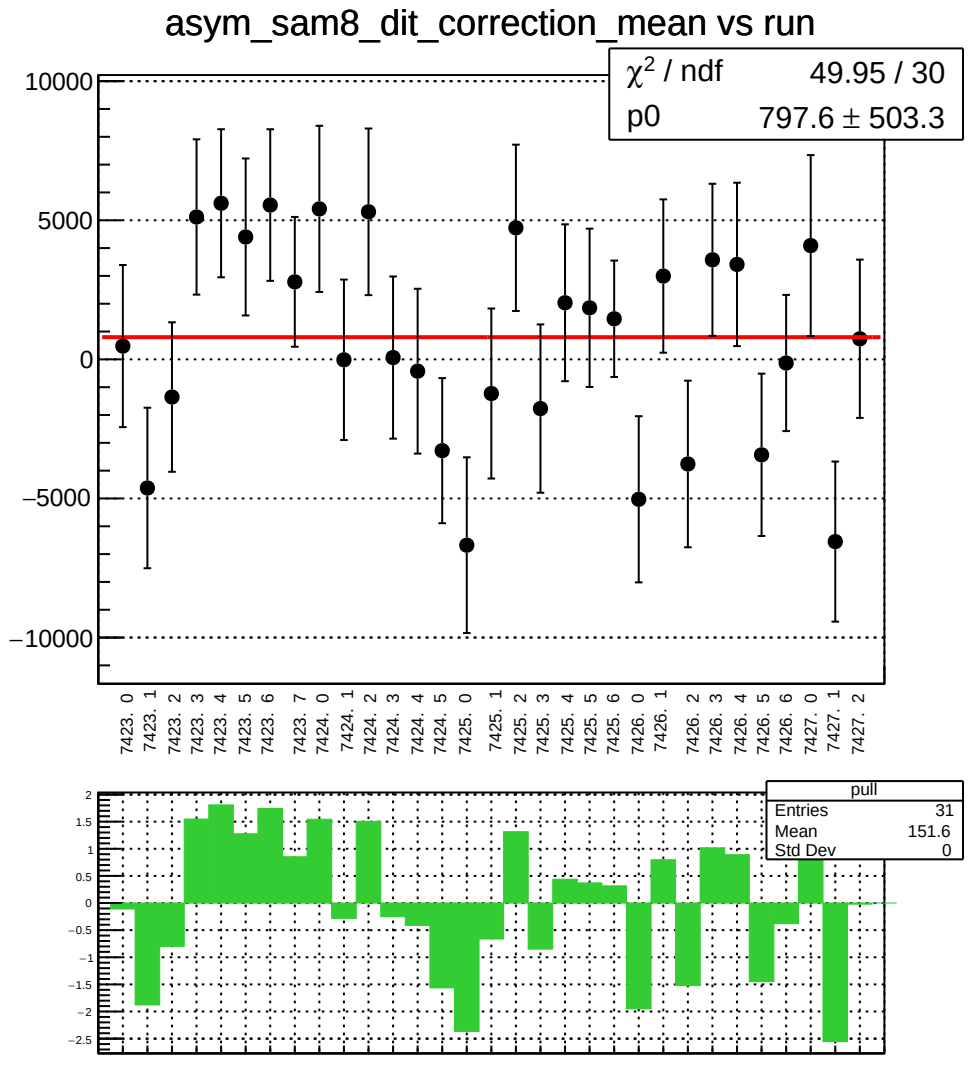

pull1D
Entries 31
Mean −0.01498
Std Dev 1.226
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

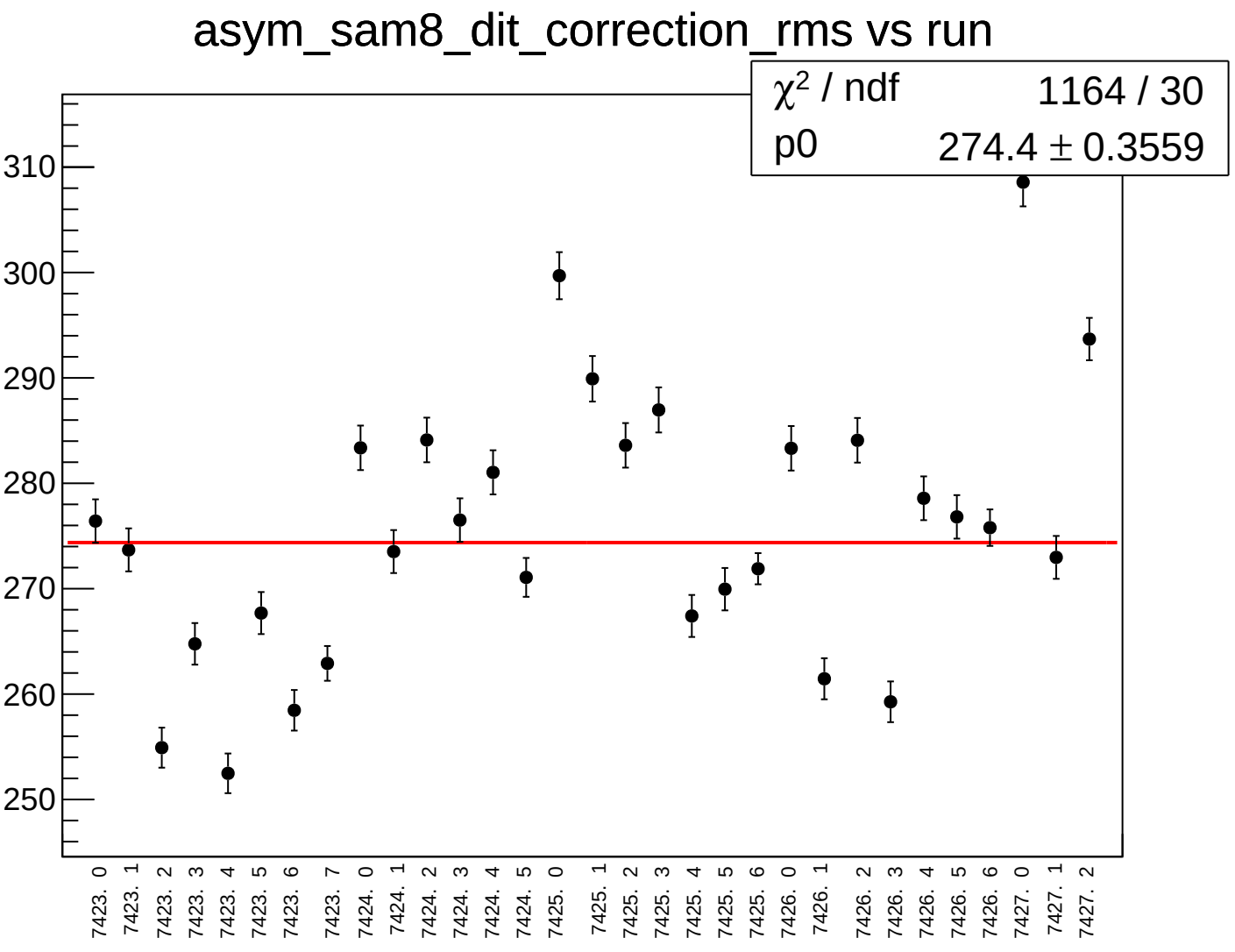

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 1595 / 30
p0 260.9 ± 0.3386
300
290
280
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

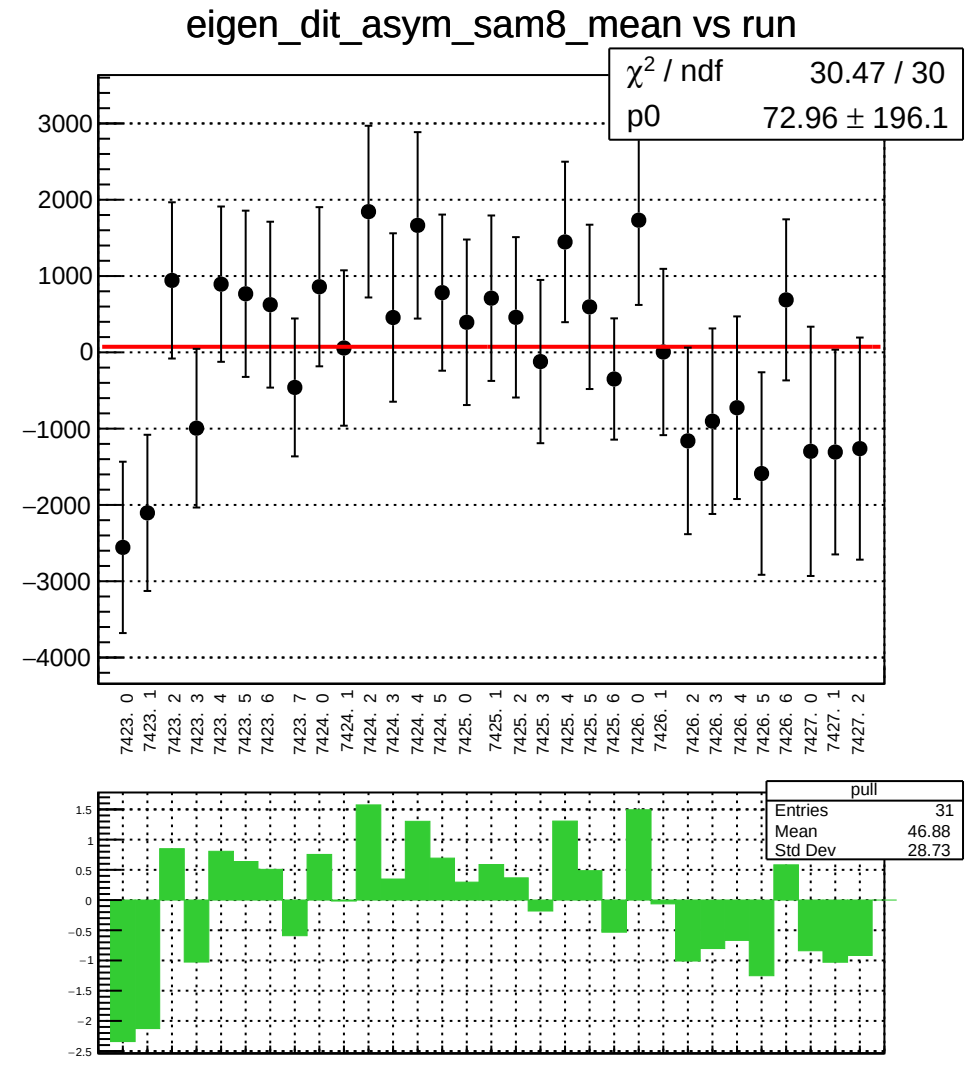

dit_asym_sam8_mean vs run
χ² / ndf 30.47 / 30
p0 72.97 ± 196.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 46.88
Std Dev 28.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

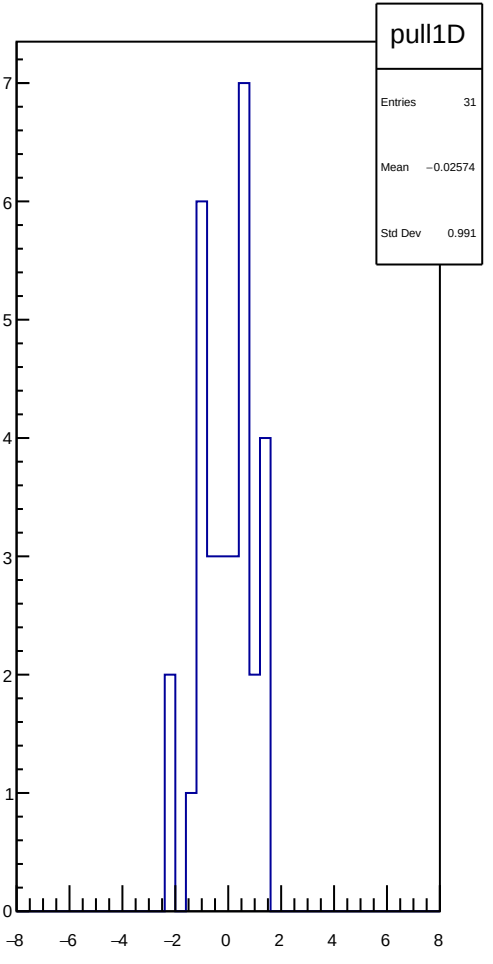

pull1D
Entries 31
Mean −0.02574
Std Dev 0.991
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

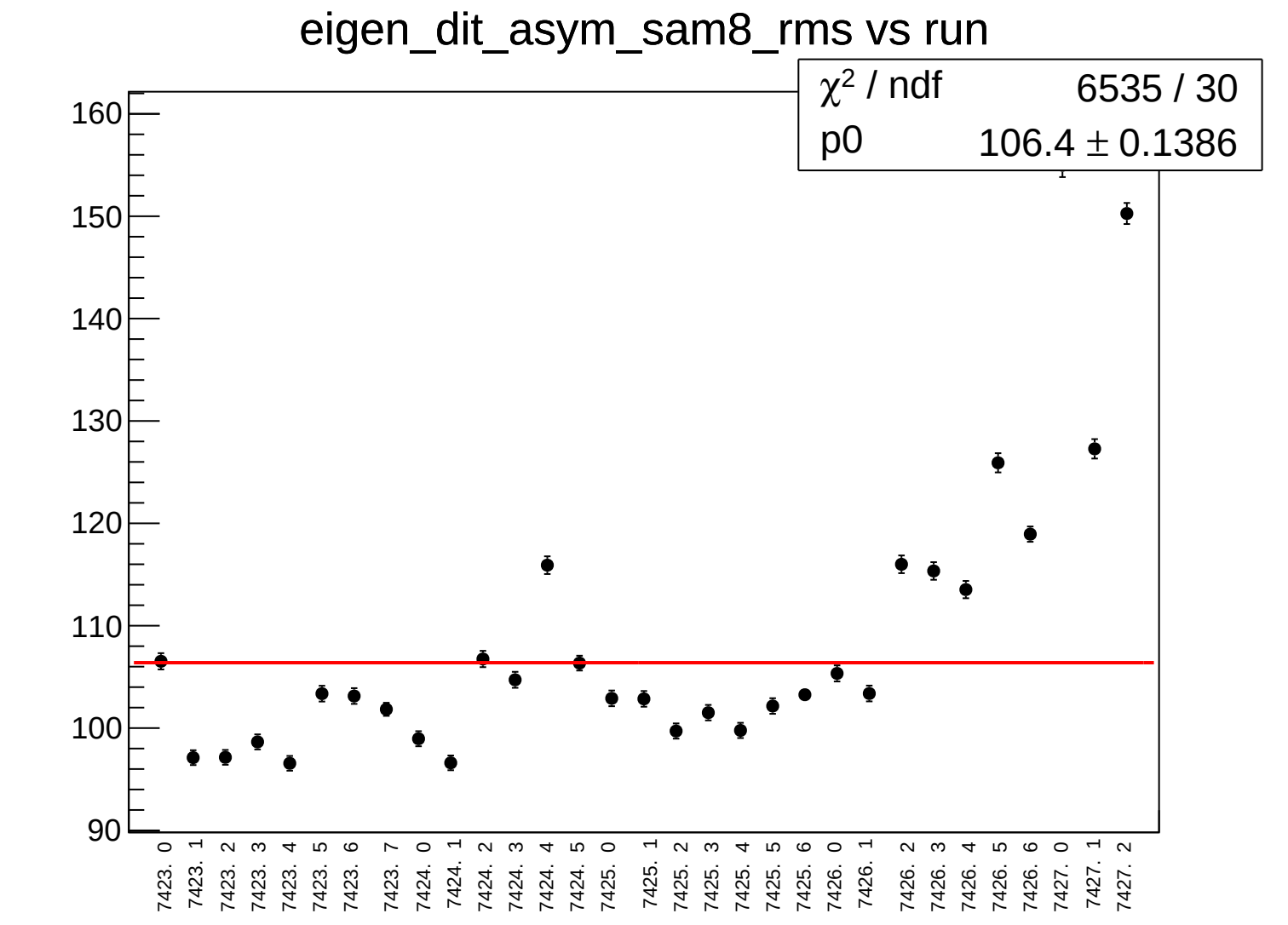

dit_asym_sam8_rms vs run
χ² / ndf 6535 / 30
p0 106.4 ± 0.1386
160
150
140
130
120
110
100
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

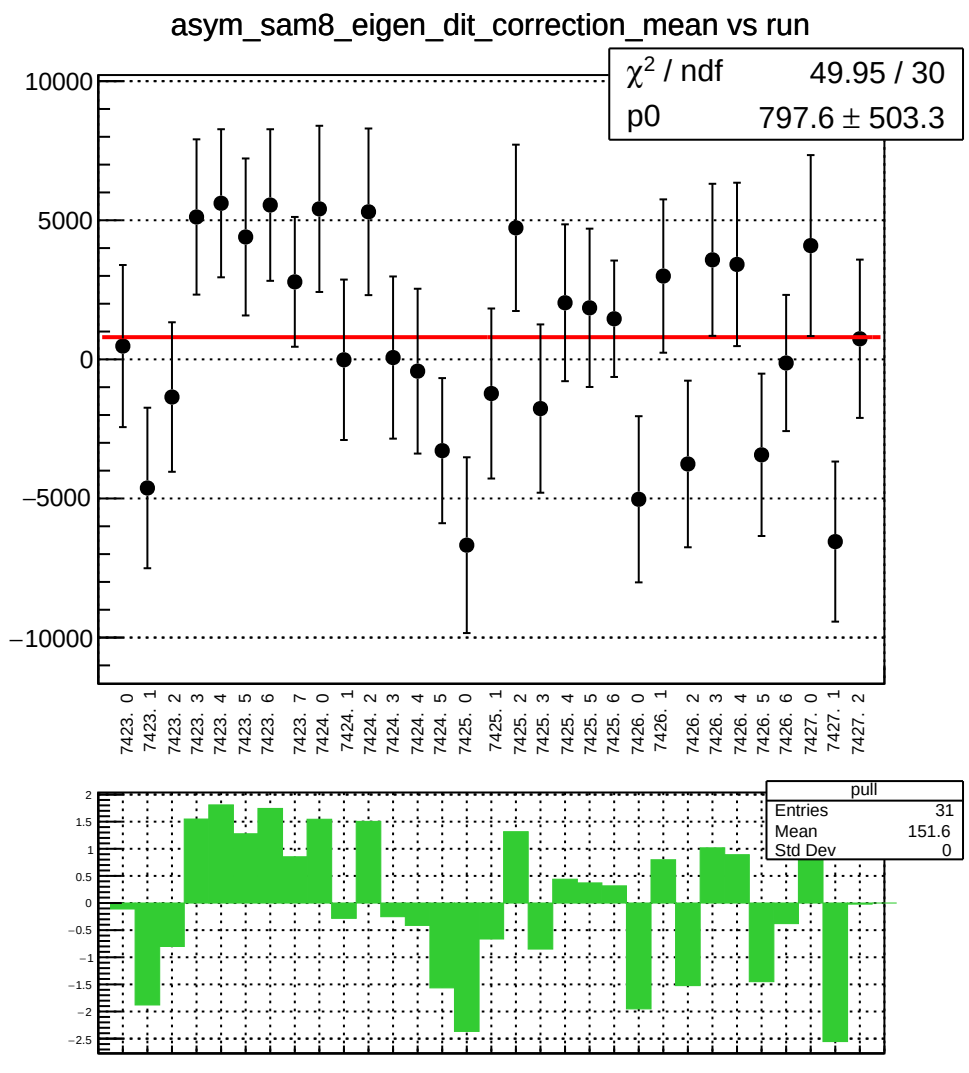

asym_sam8_dit_correction_mean vs run
χ² / ndf 49.95 / 30
p0 797.6 ± 503.3
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 151.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.0199
Std Dev 1.269
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

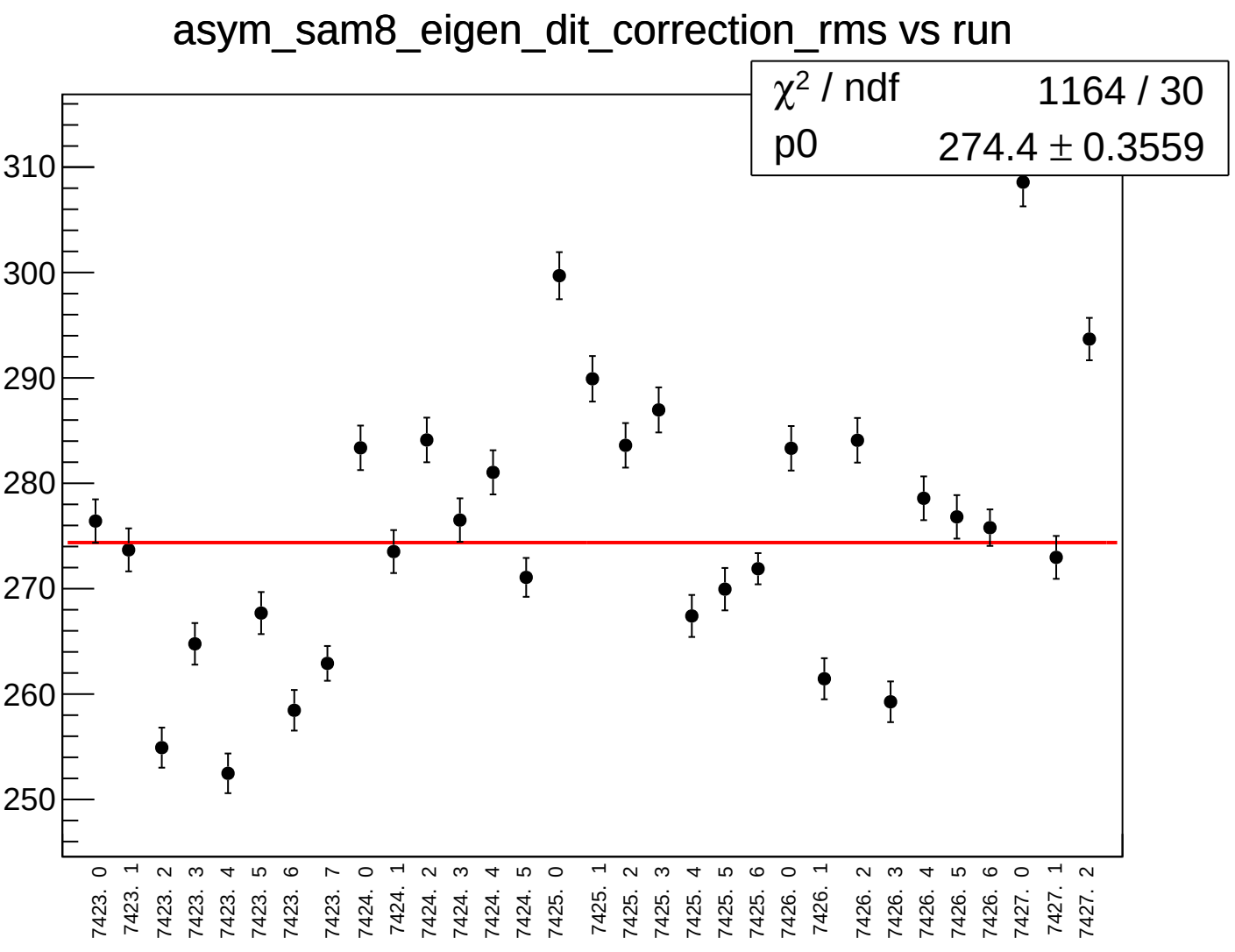

asym_sam8_dit_correction_rms vs run
χ² / ndf 1164 / 30
p0 274.4 ± 0.3559
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

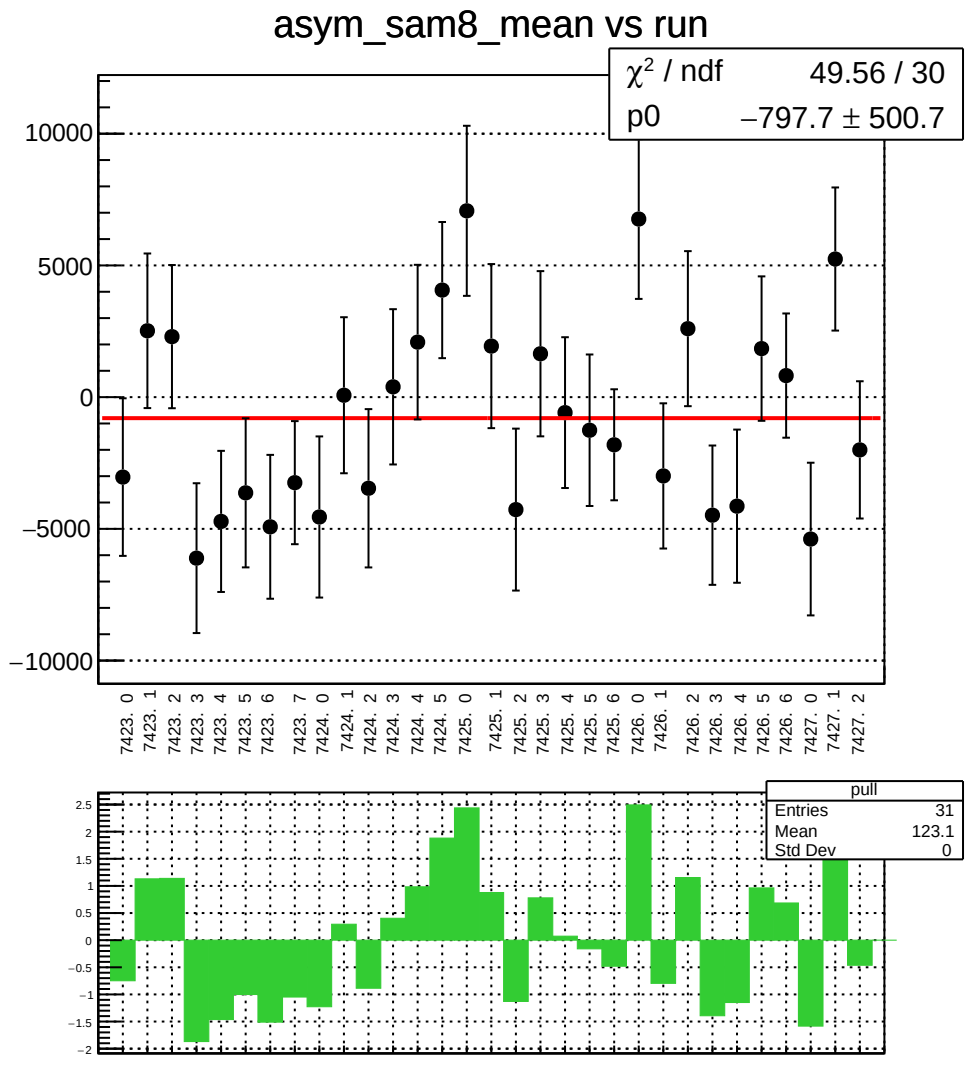

eigen_dit_asym_sam8_mean vs run
χ² / ndf 30.47 / 30
p0 72.96 ± 196.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 46.88
Std Dev 28.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

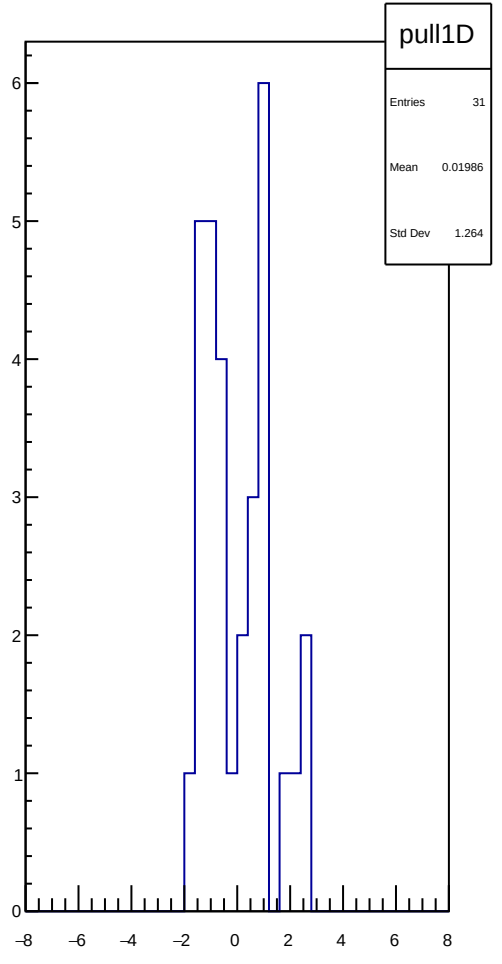

pull1D
Entries 31
Mean −0.02574
Std Dev 0.991
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

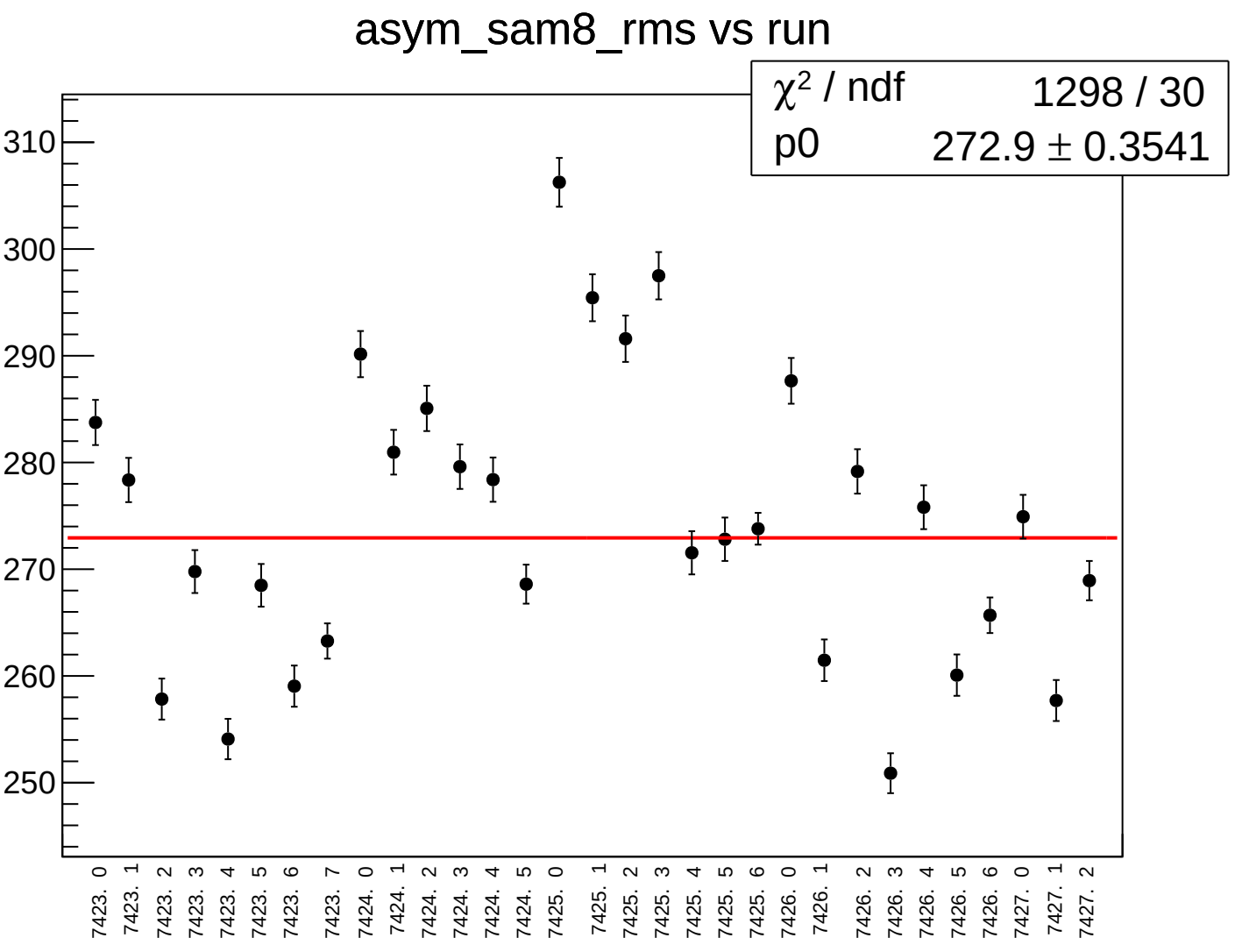

eigen_dit_asym_sam8_rms vs run
χ² / ndf 6535 / 30
p0 106.4 ± 0.1386
160
150
140
130
120
110
100
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

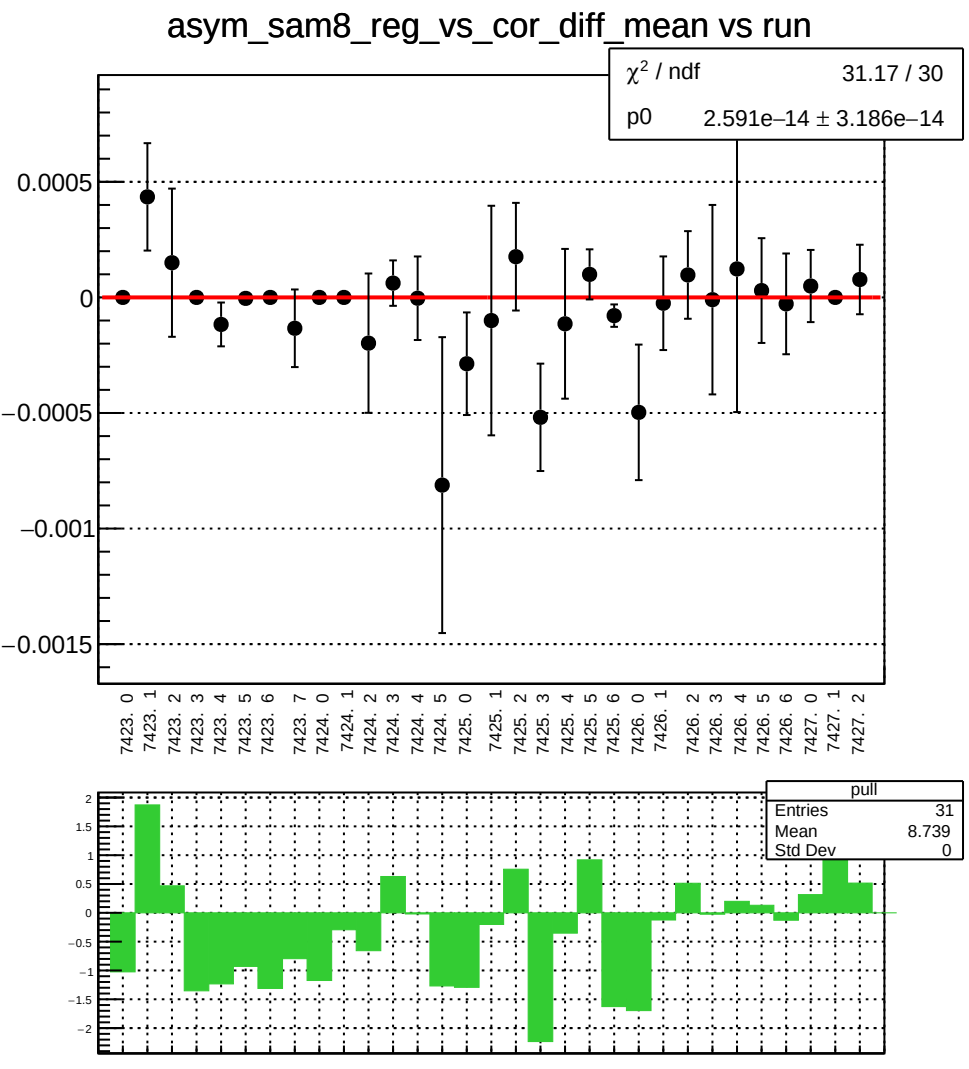

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 49.95 / 30
p0 797.6 ± 503.3
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 151.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.0199
Std Dev 1.269
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

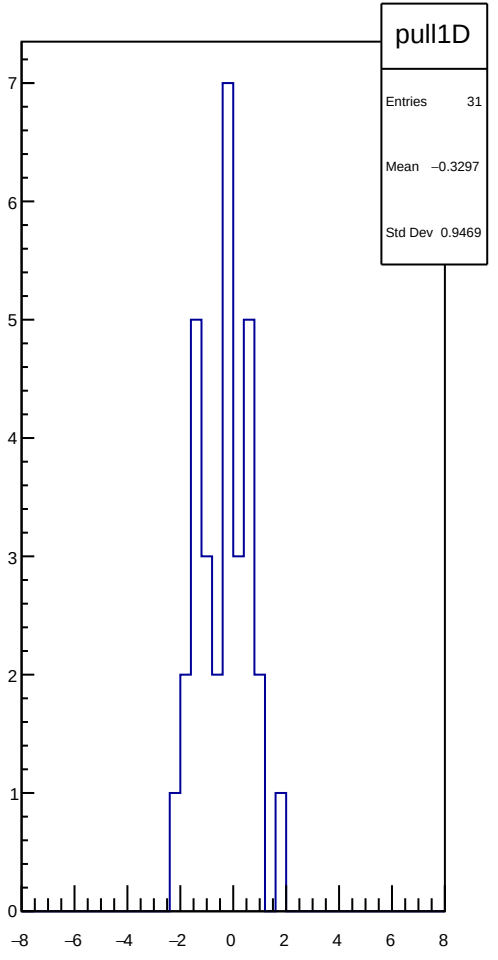

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1164 / 30
p0 274.4 ± 0.3559
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

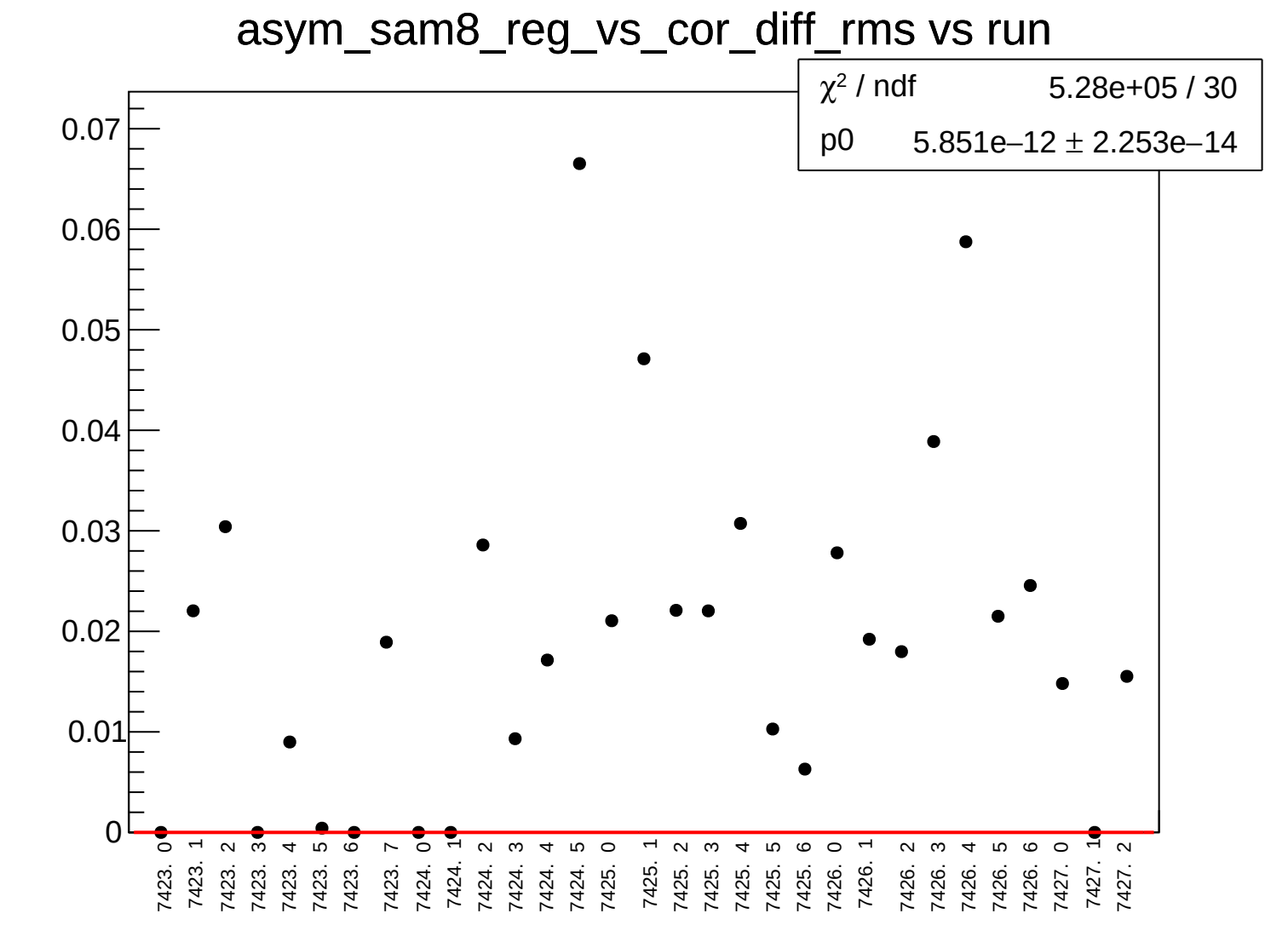

asym_sam8_mean vs run
χ² / ndf 49.56 / 30
p0 −797.7 ± 500.7
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 123.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

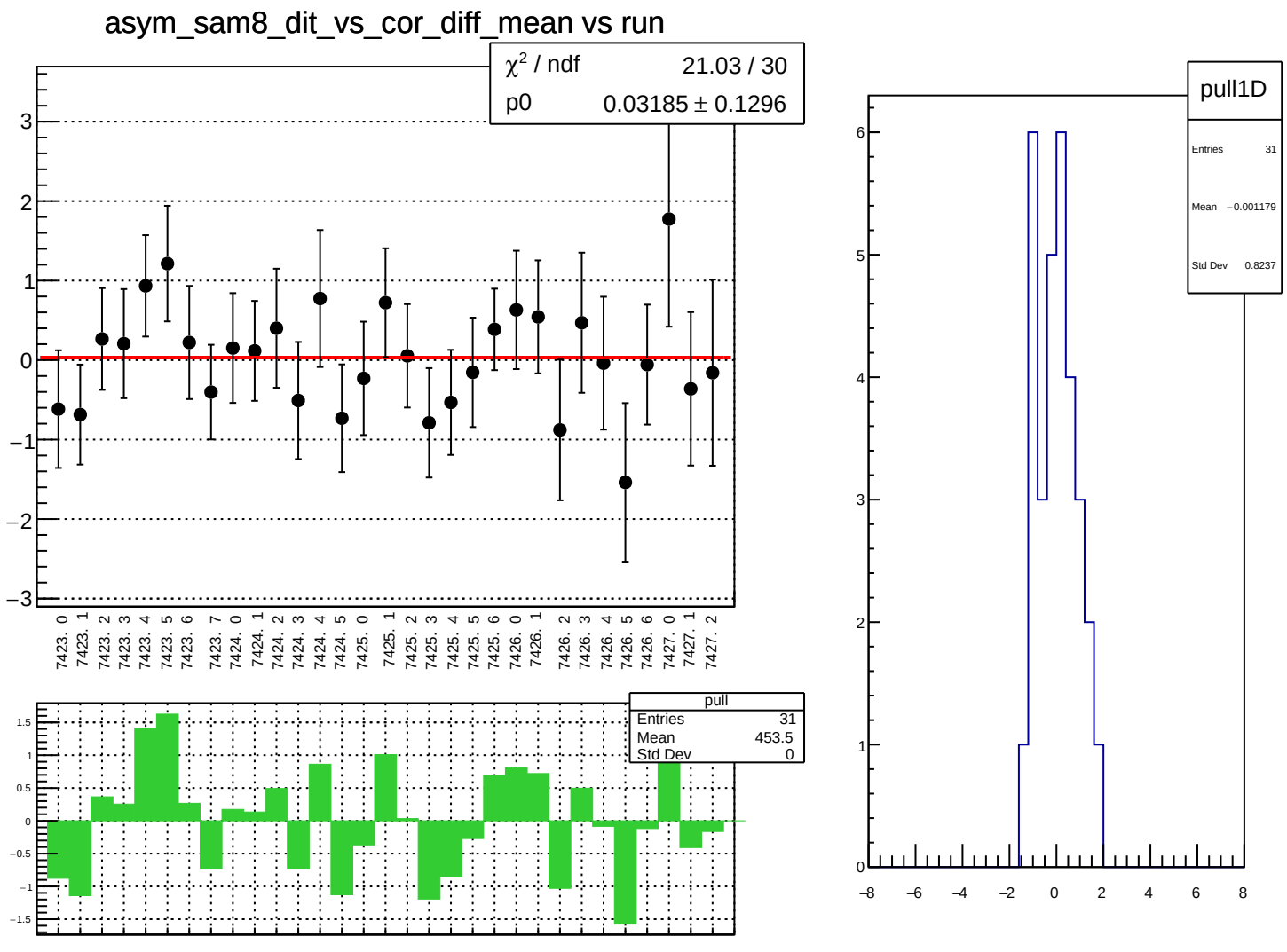

pull1D
Entries 31
Mean 0.01986
Std Dev 1.264
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

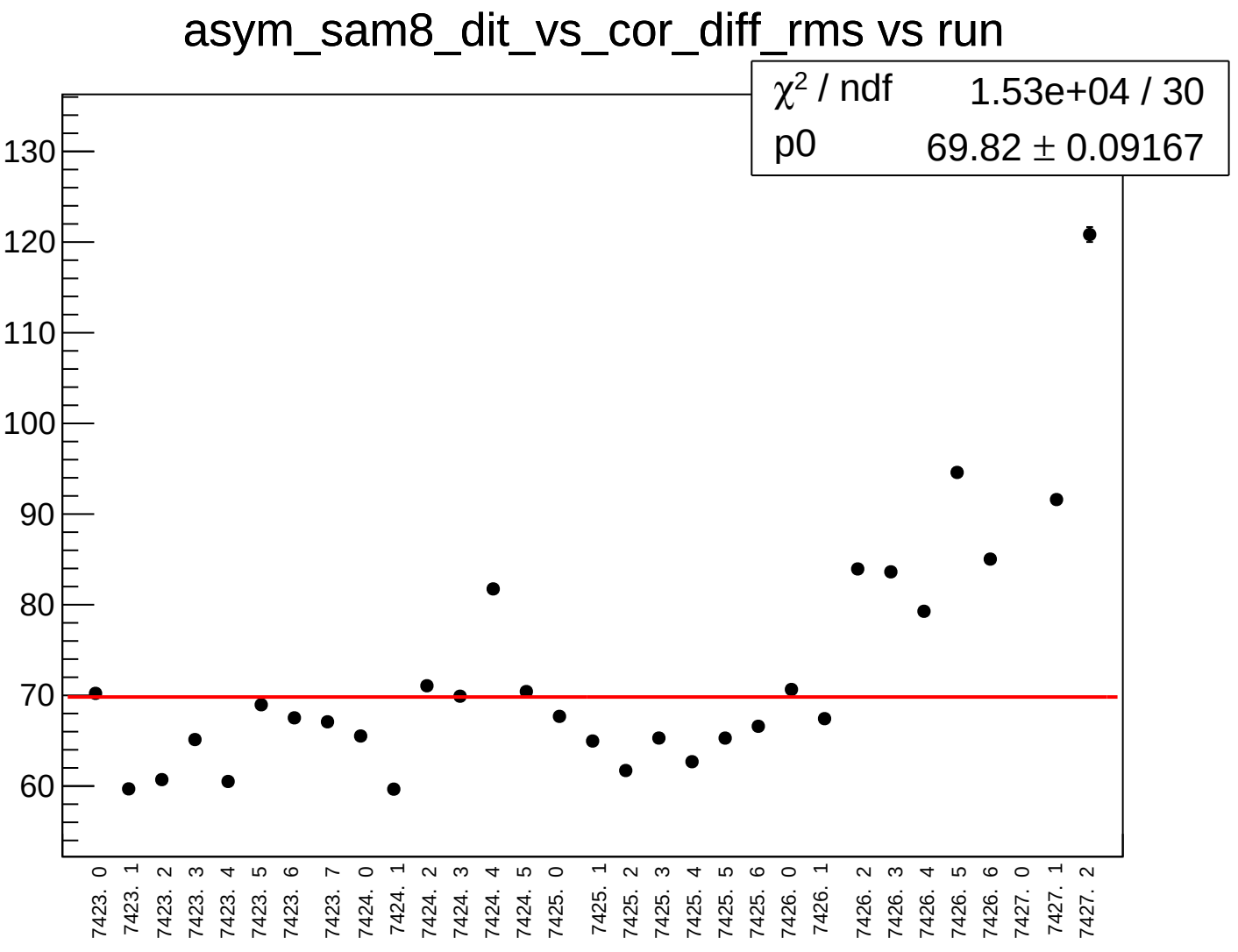

asym_sam8_rms vs run
χ² / ndf 1298 / 30
p0 272.9 ± 0.3541
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

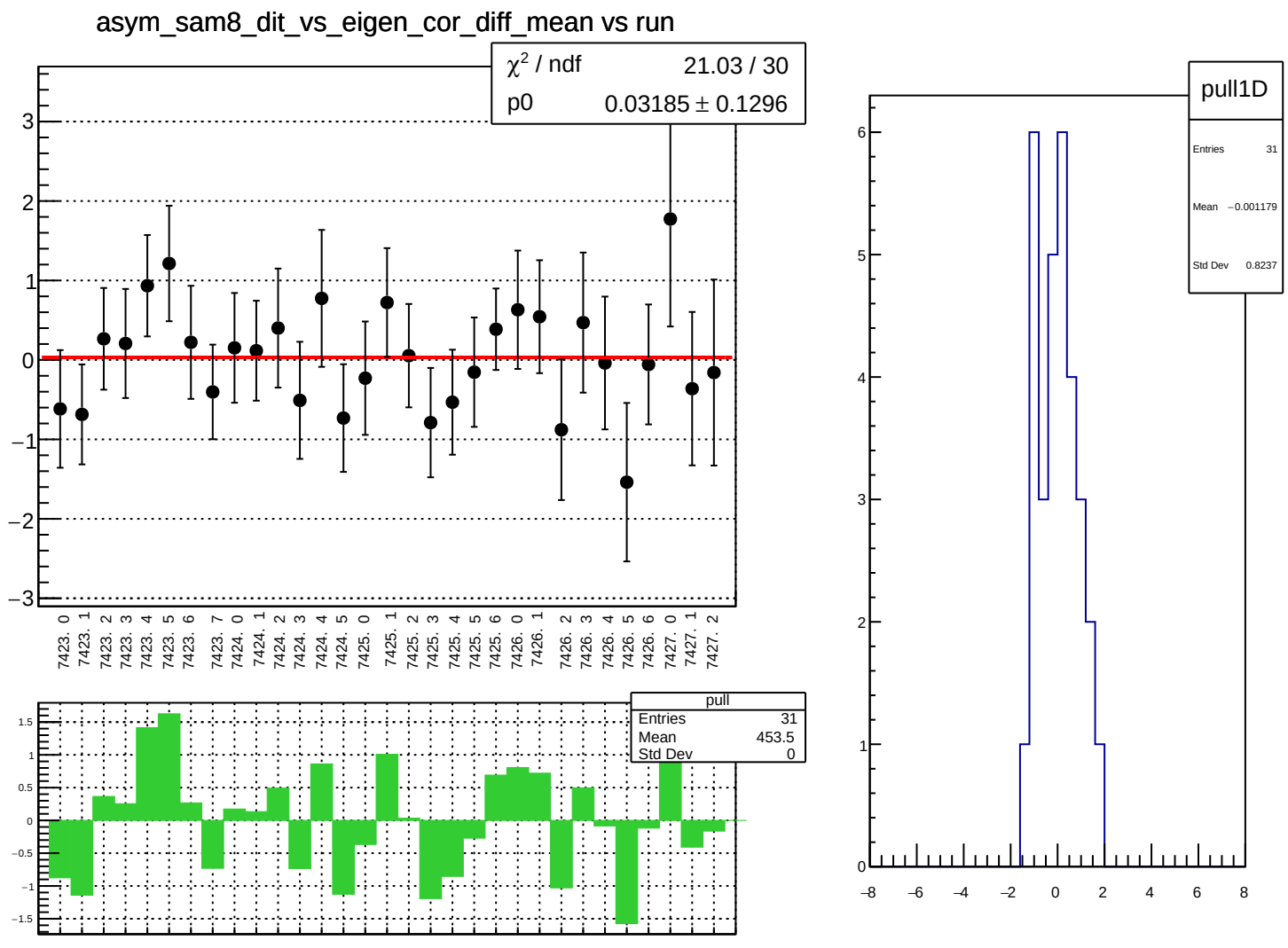

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 31.17 / 30
p0 2.591e−14 ± 3.186e−14
0.0005
0
−0.0005
−0.001
−0.0015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.739
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

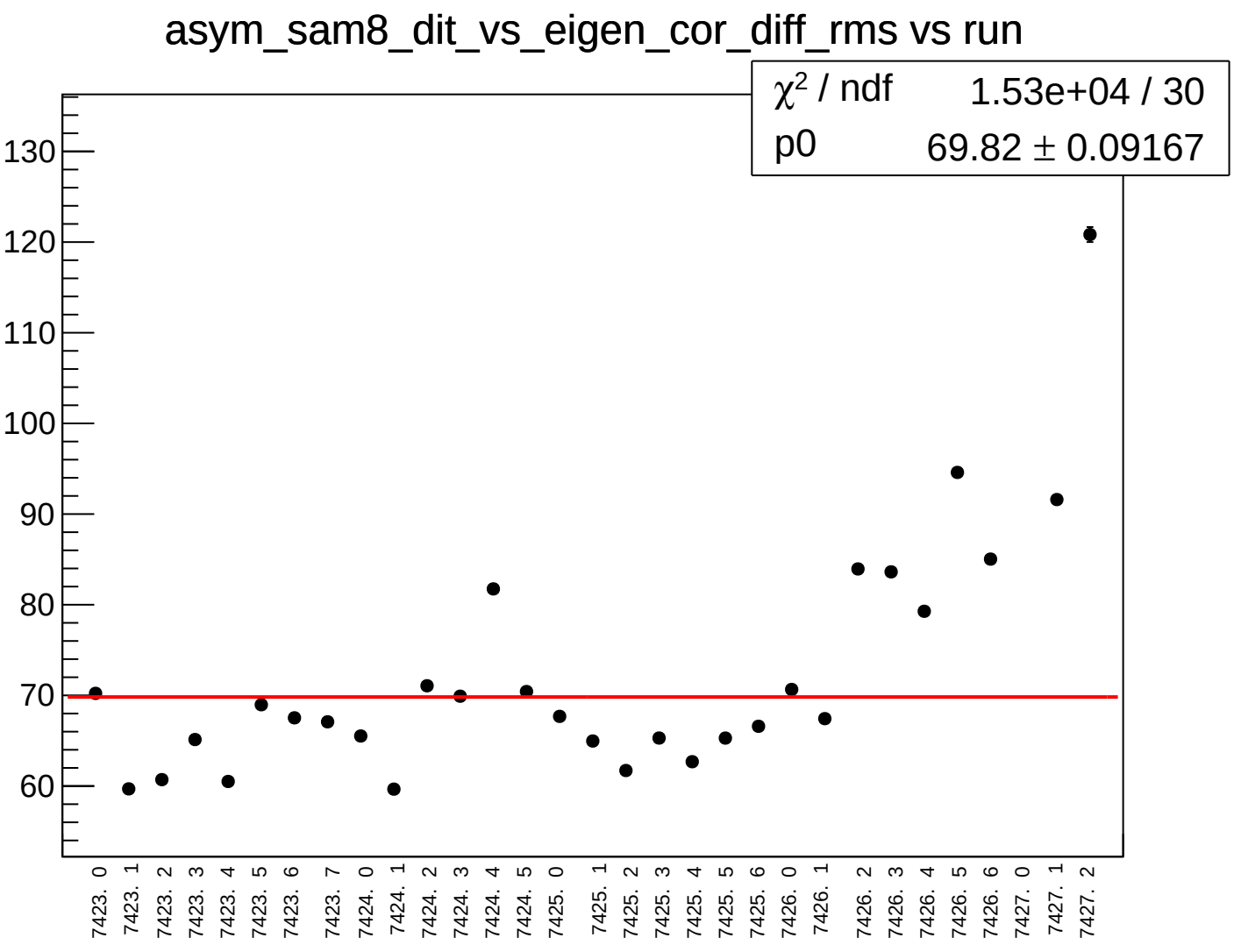

pull1D
Entries 31
Mean −0.3297
Std Dev 0.9469
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

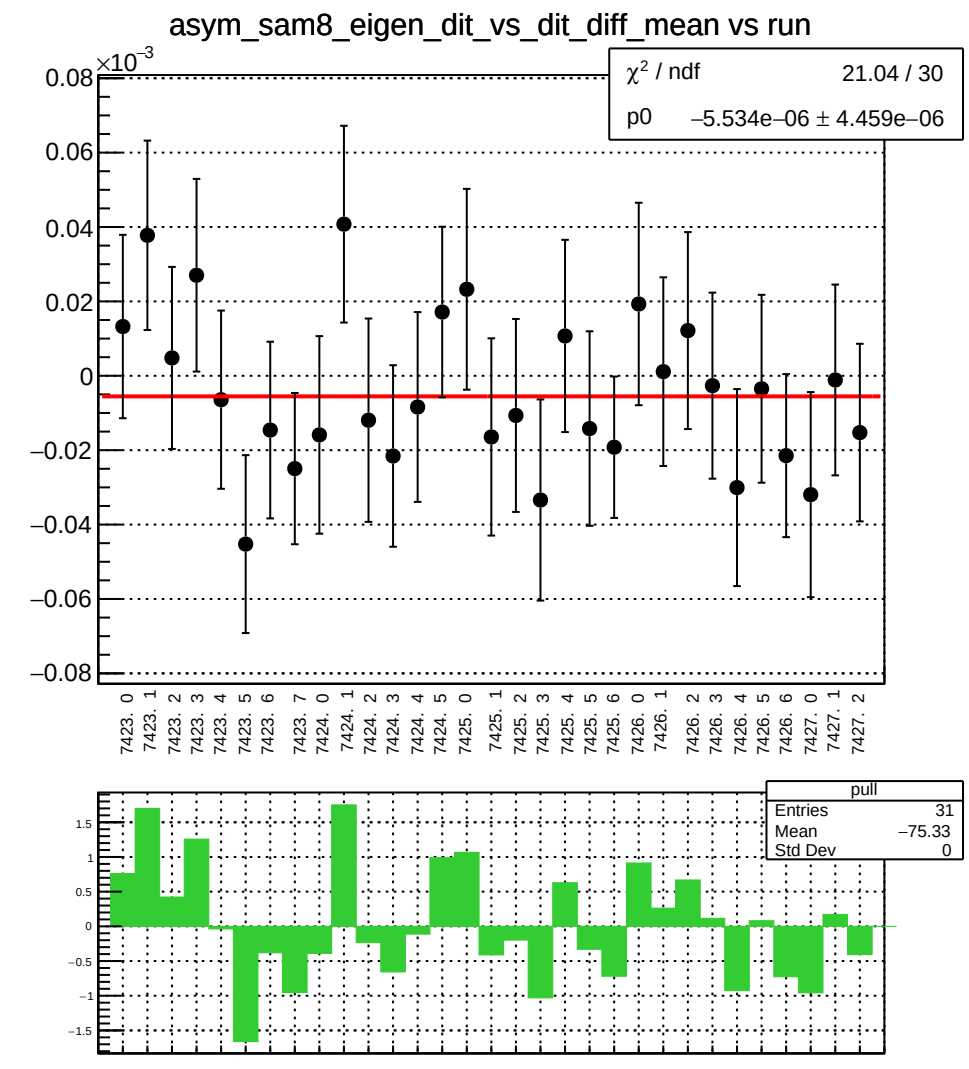

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 5.28e+05 / 30
p0 5.851e−12 ± 2.253e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

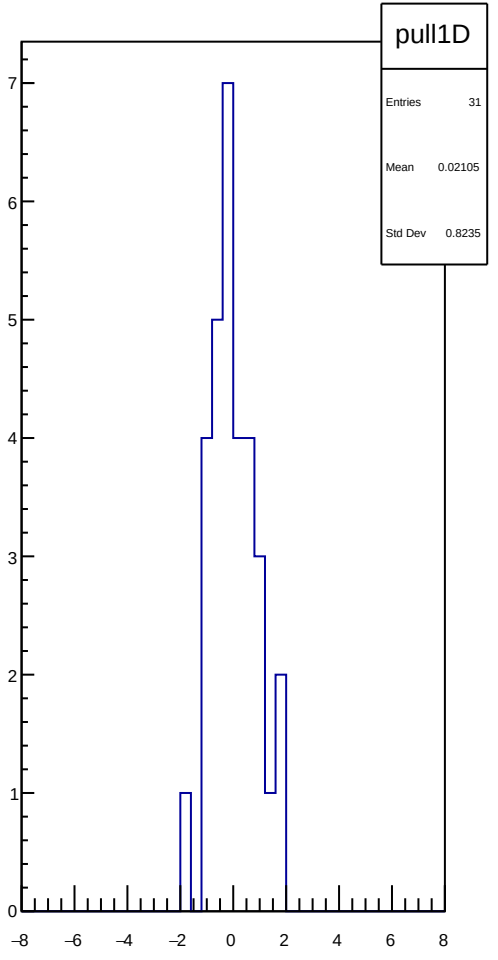

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 21.03 / 30
p0 0.03185 ± 0.1296
pull
Entries 31
Mean 453.5
Std Dev 0
pull1D
Entries 31
Mean −0.001179
Std Dev 0.8237

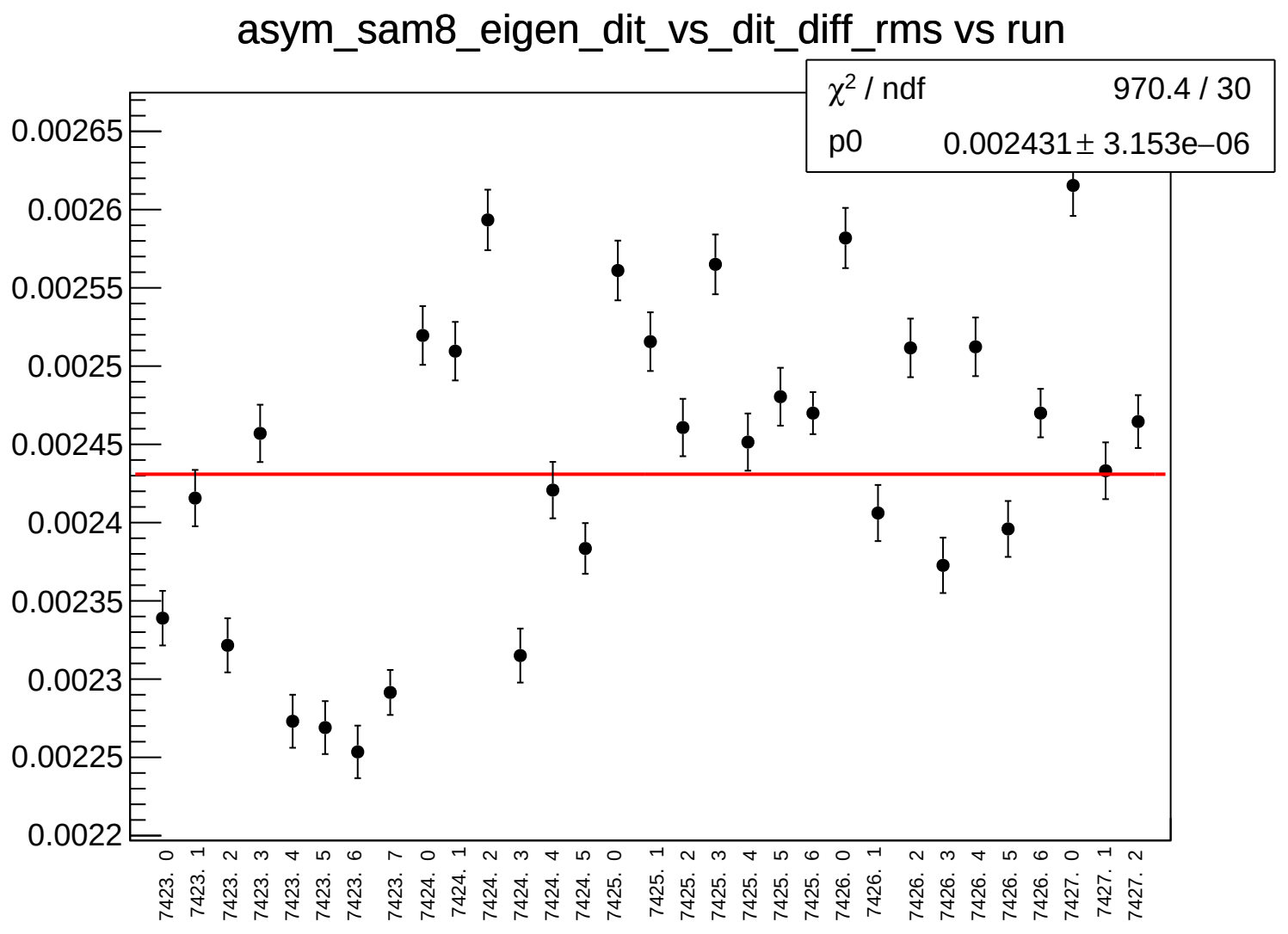

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.53e+04 / 30
p0 69.82 ± 0.09167
130
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

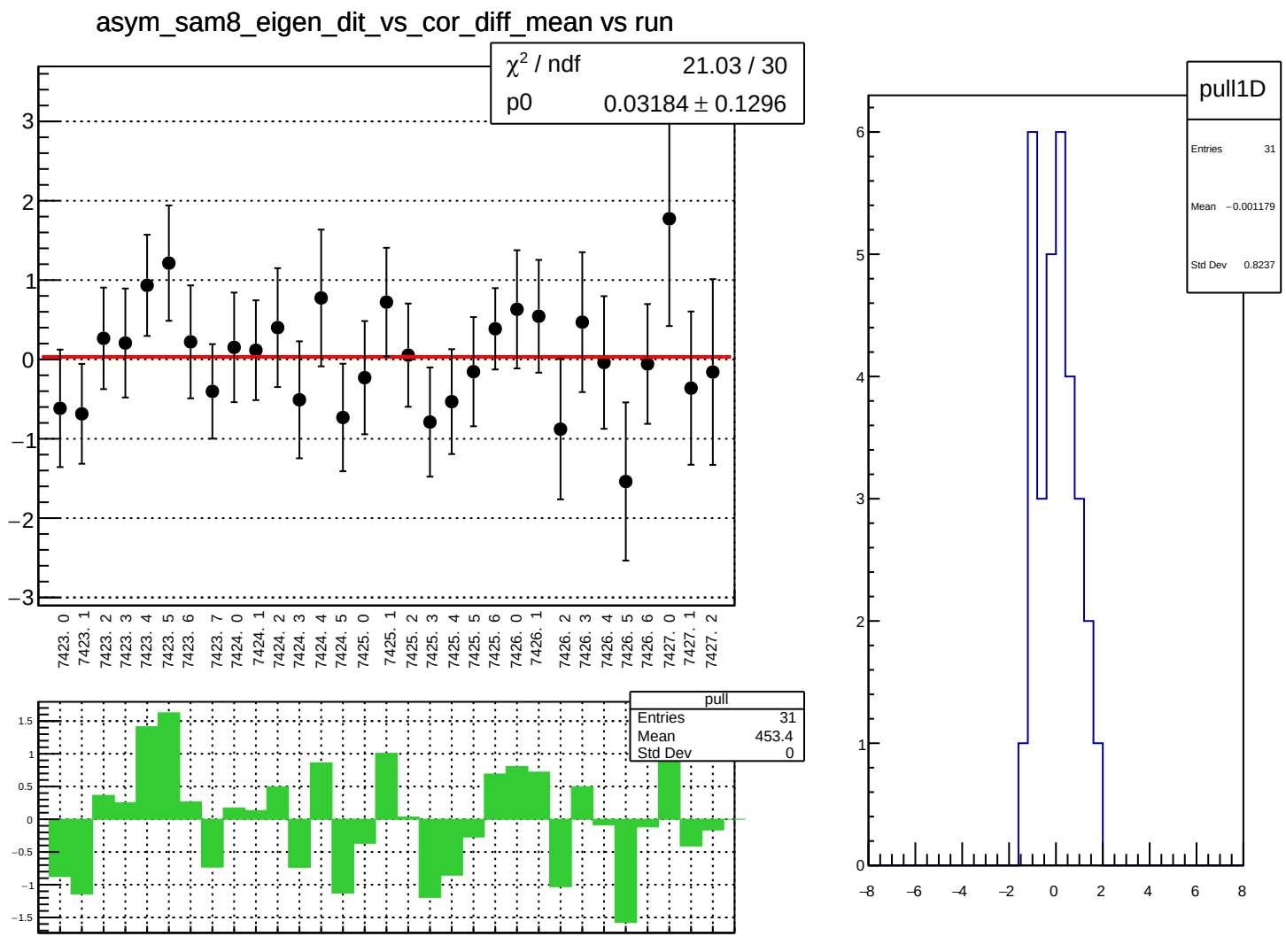

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.03 / 30
p0 0.03185 ± 0.1296
3
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 453.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.001179
Std Dev 0.8237
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

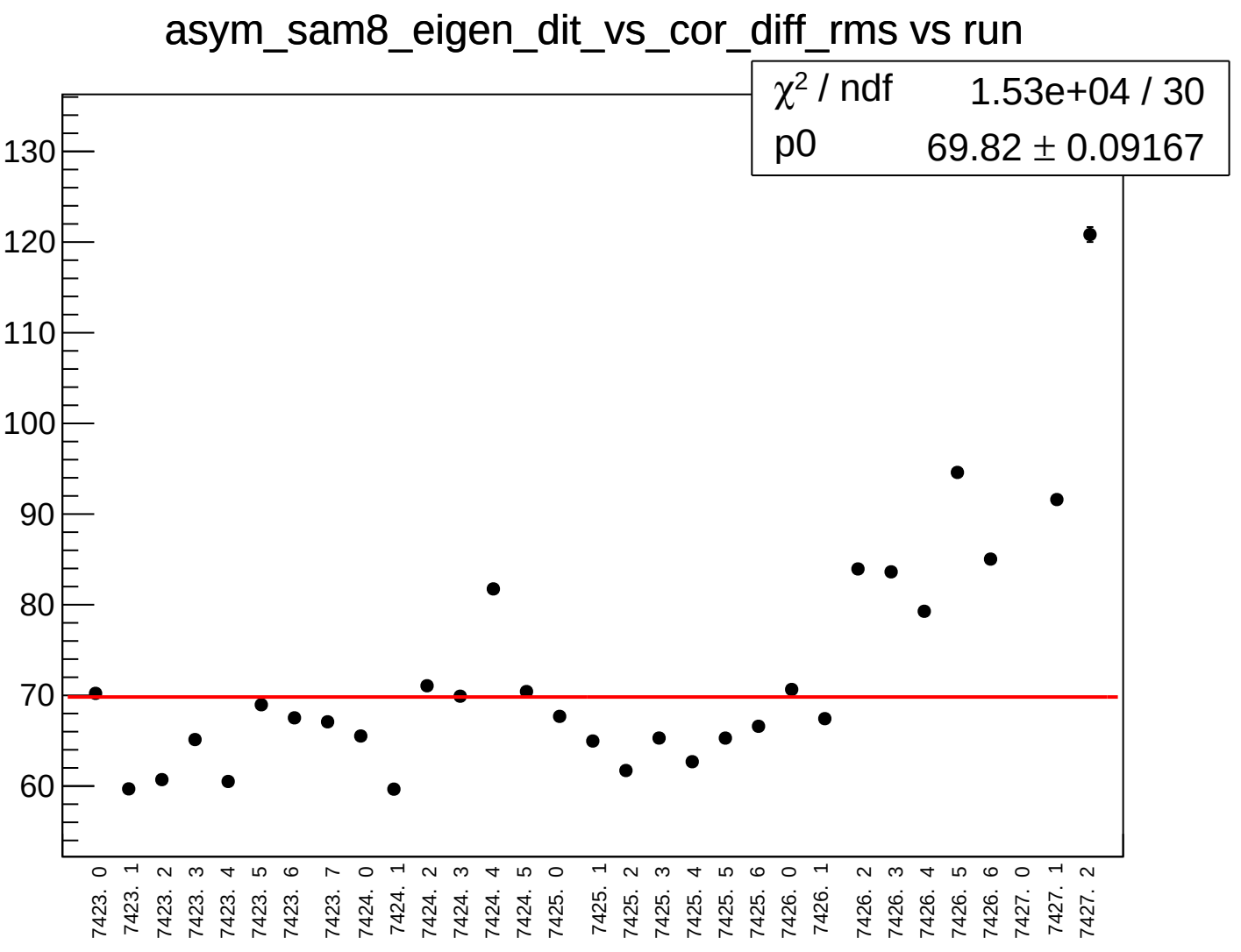

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.53e+04 / 30
p0 69.82 ± 0.09167
130
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

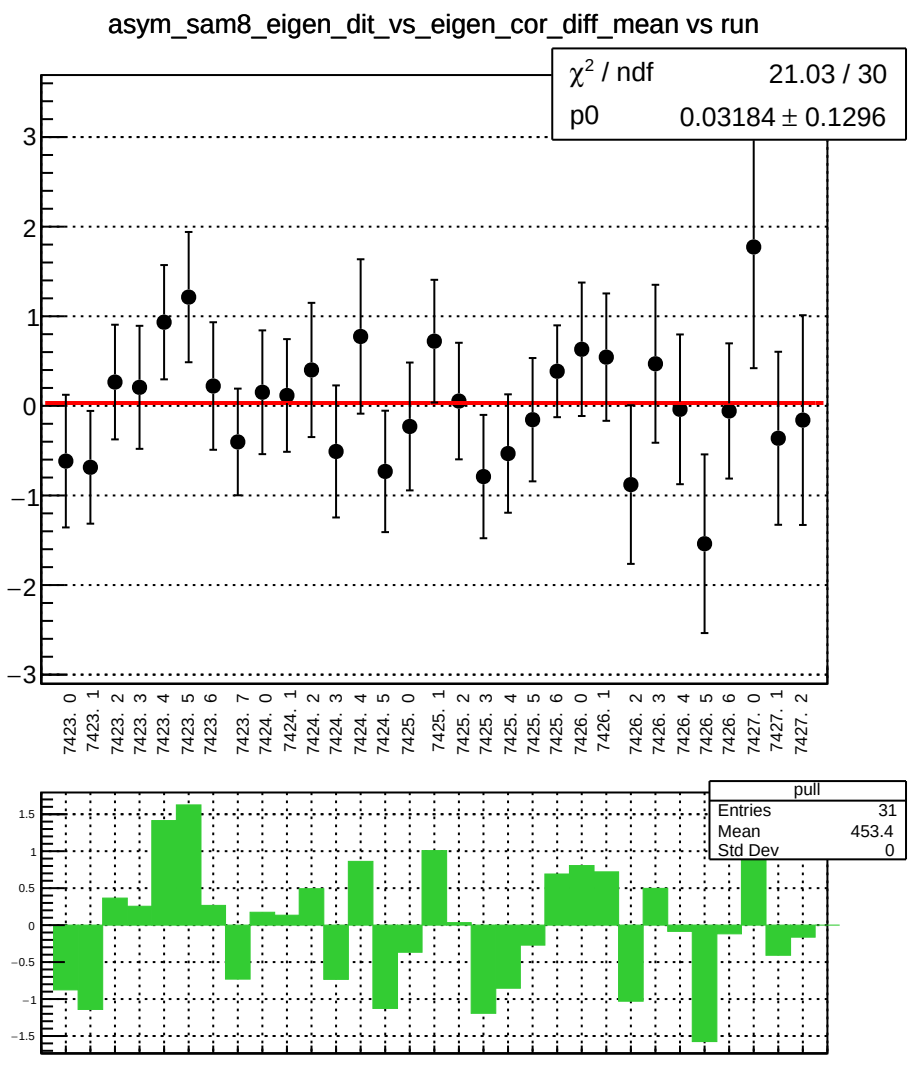

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 21.04 / 30
p0 −5.534e−06 ± 4.459e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −75.33
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

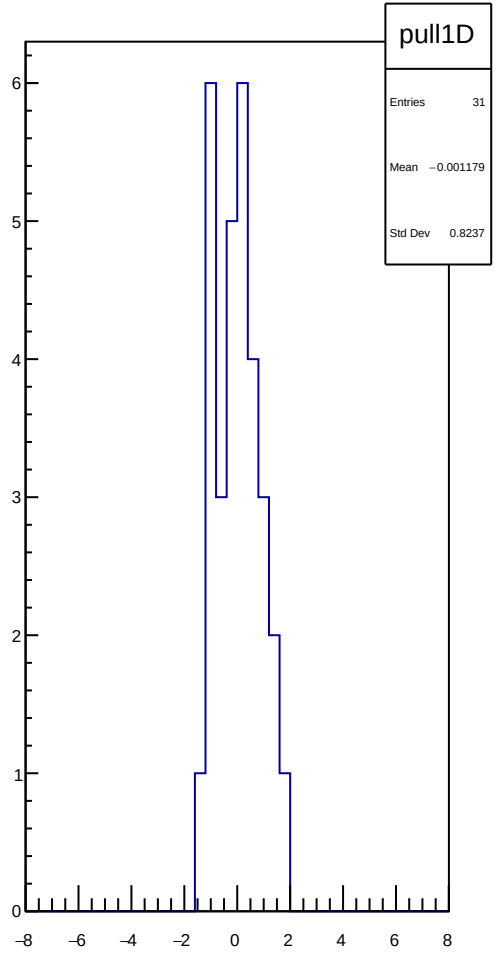

pull1D
Entries 31
Mean 0.02105
Std Dev 0.8235
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

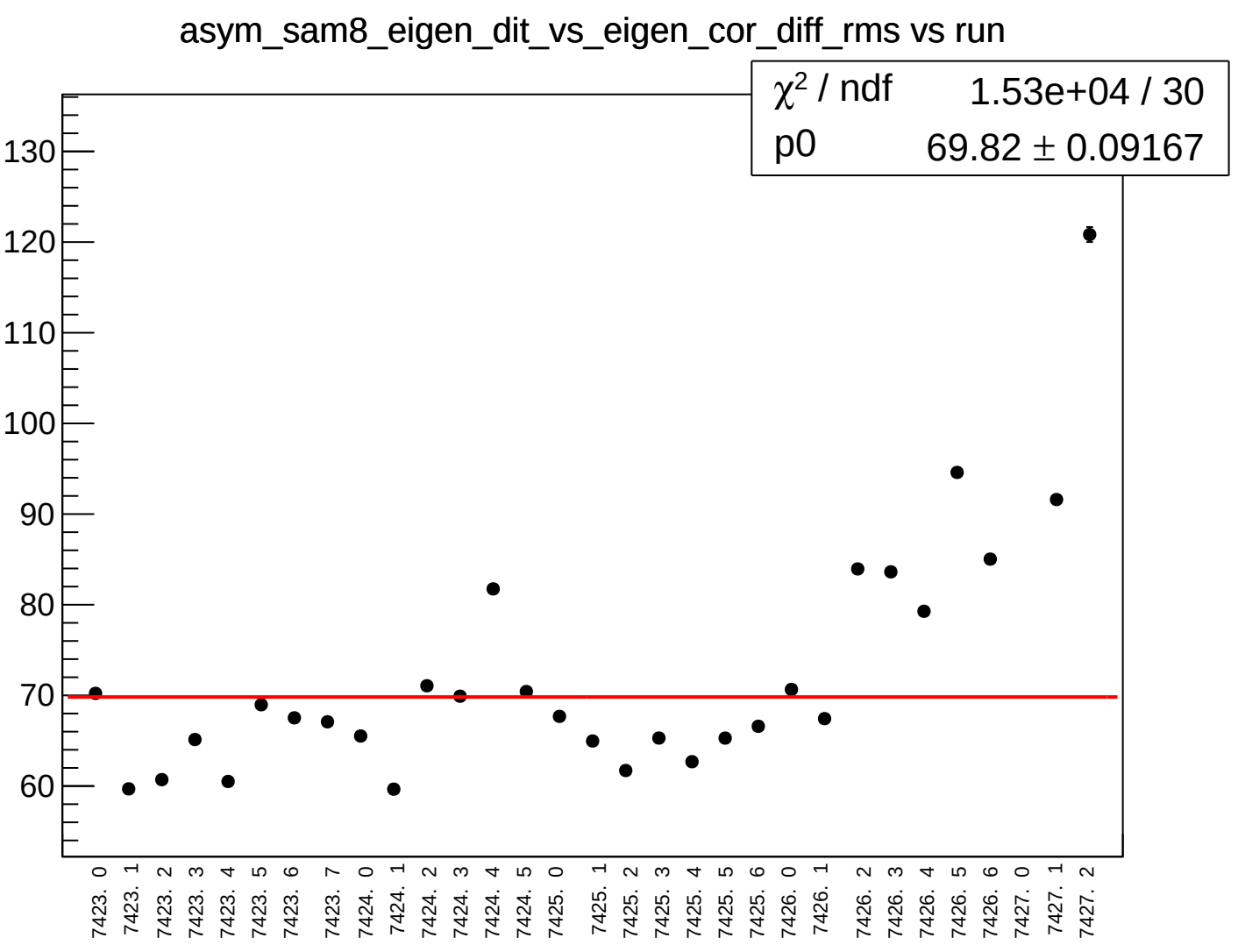

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 970.4 / 30
p0 0.002431 ± 3.153e−06
0.00265
0.0026
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

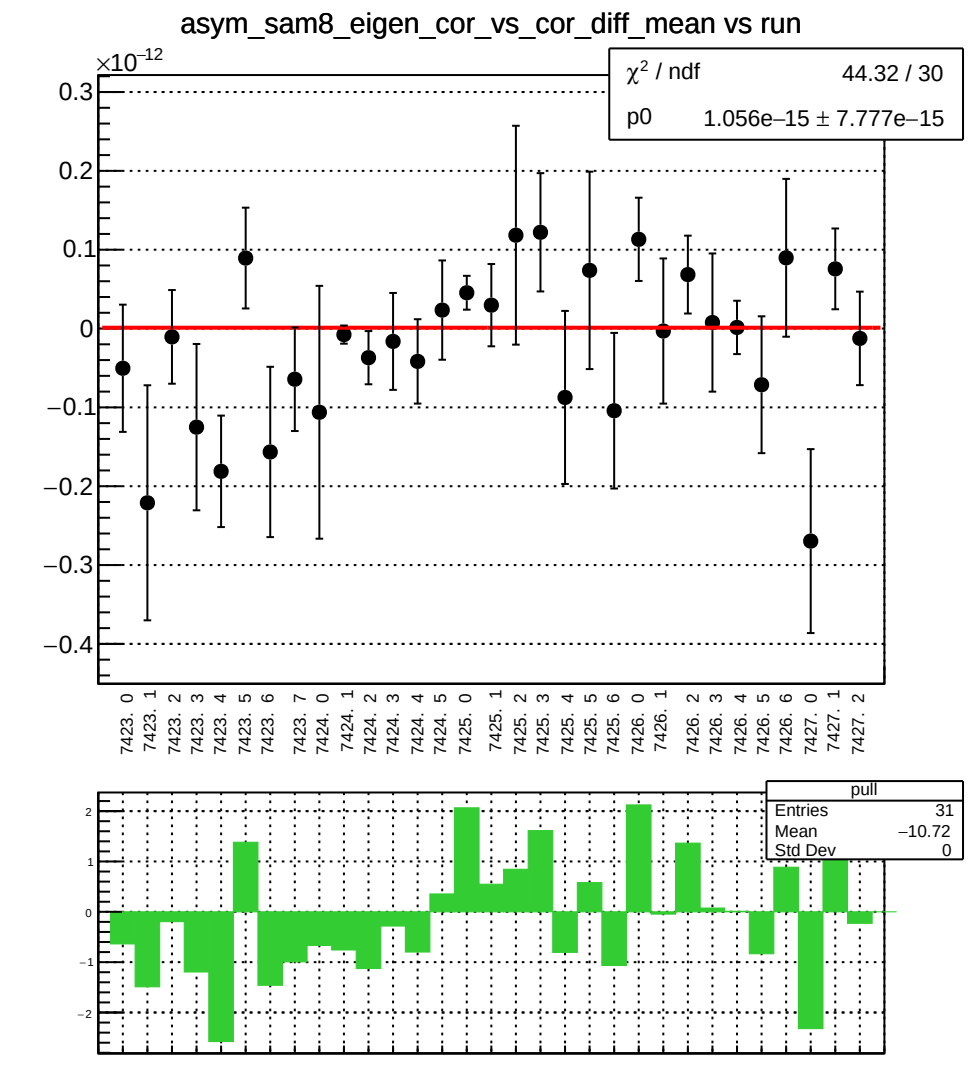

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.03 / 30
p0 0.03184 ± 0.1296
3
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 453.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.001179
Std Dev 0.8237
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

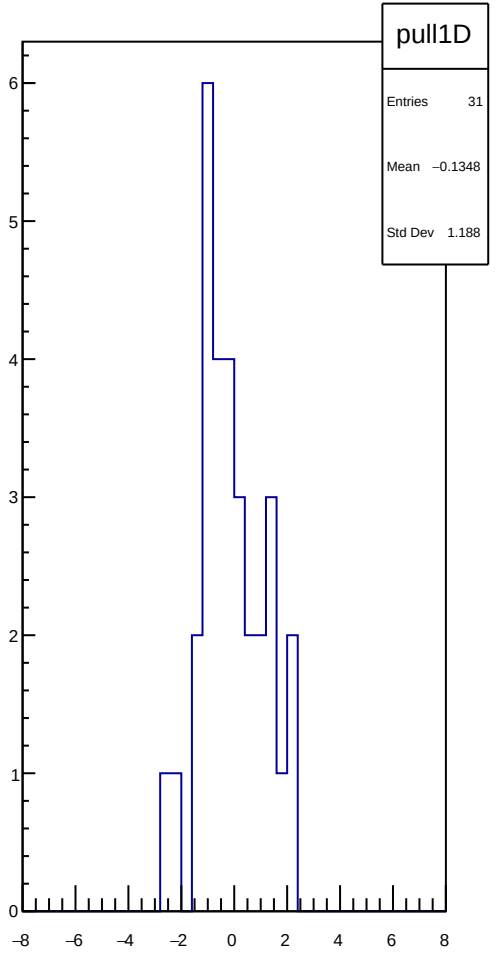

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.53e+04 / 30
p0 69.82 ± 0.09167
130
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

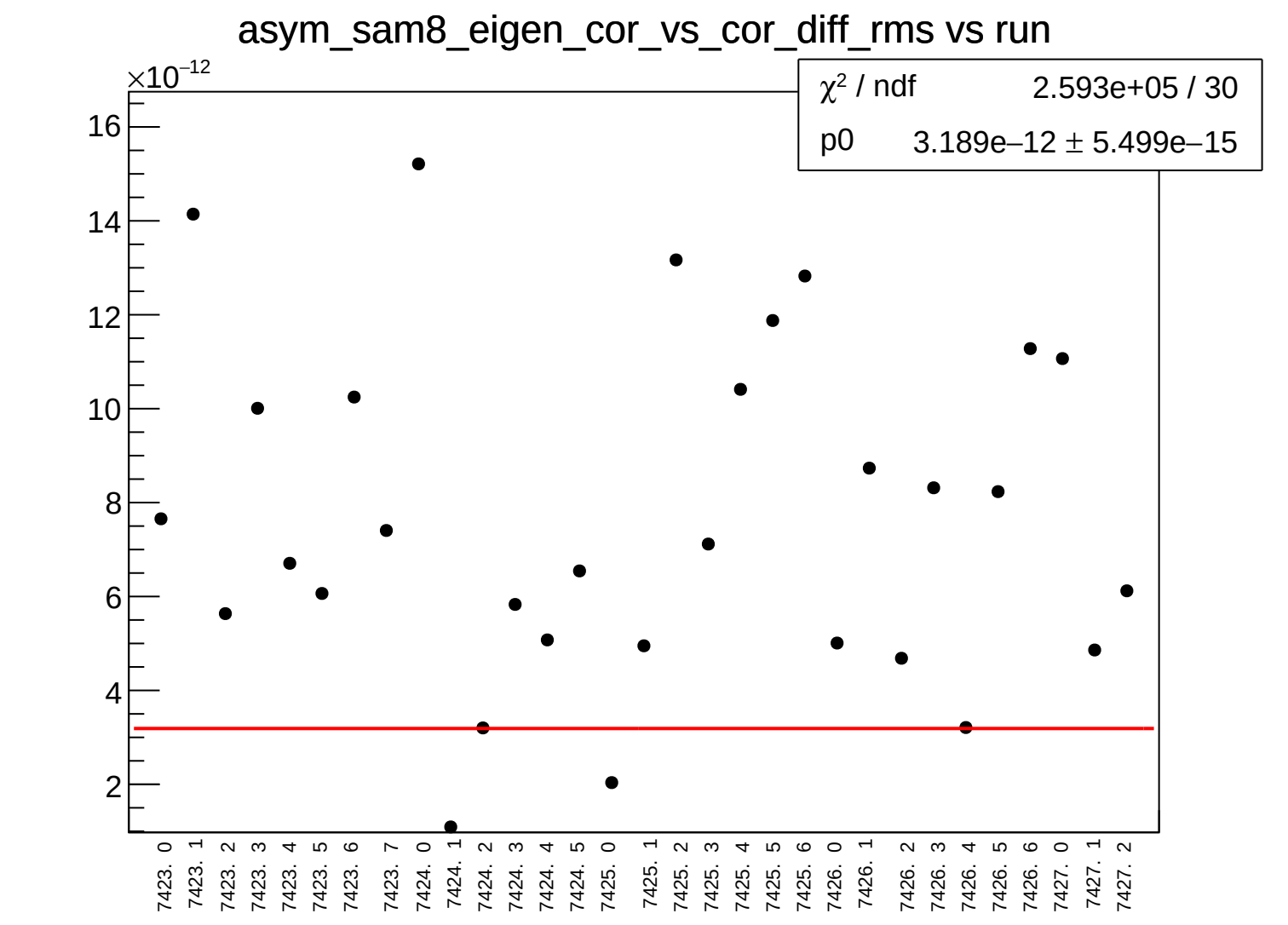

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.03 / 30
p0 0.03184 ± 0.1296
pull
Entries 31
Mean 453.4
Std Dev 0

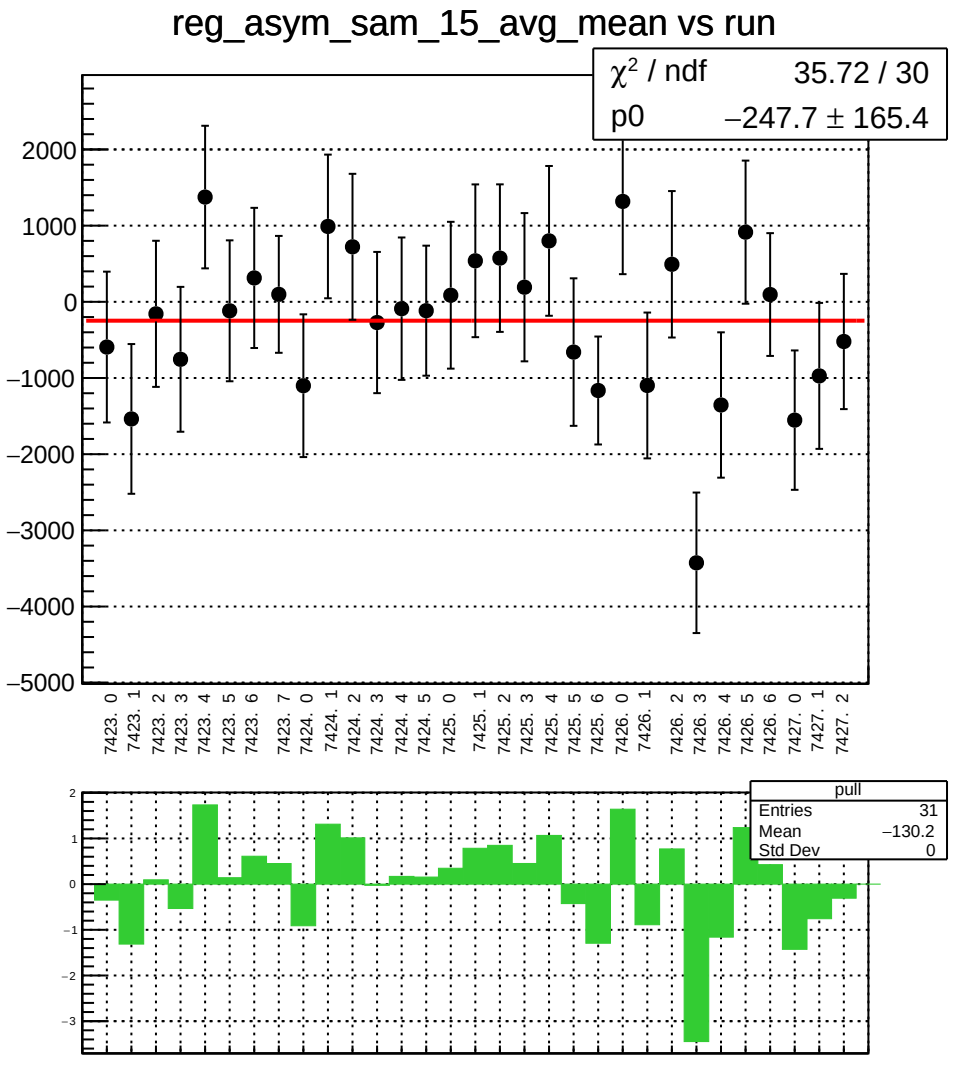

pull1D
Entries 31
Mean −0.001179
Std Dev 0.8237

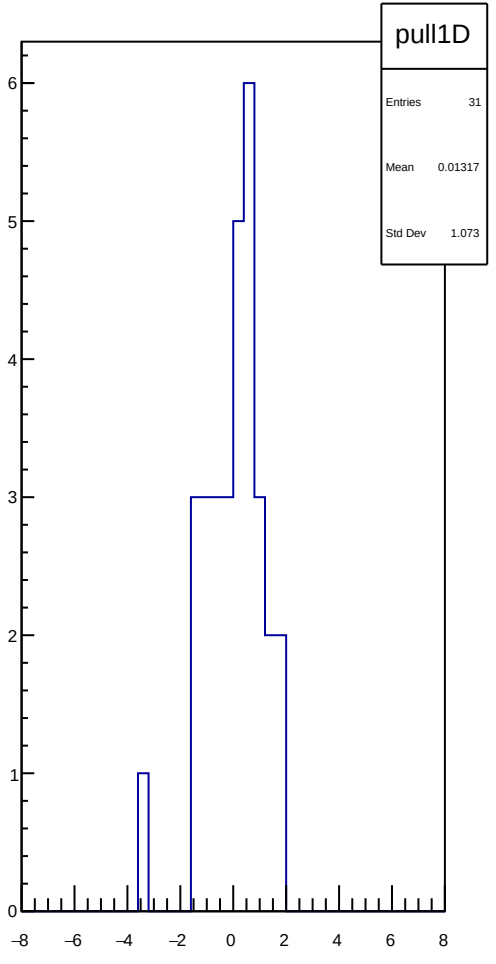

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.53e+04 / 30
p0 69.82 ± 0.09167
130
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

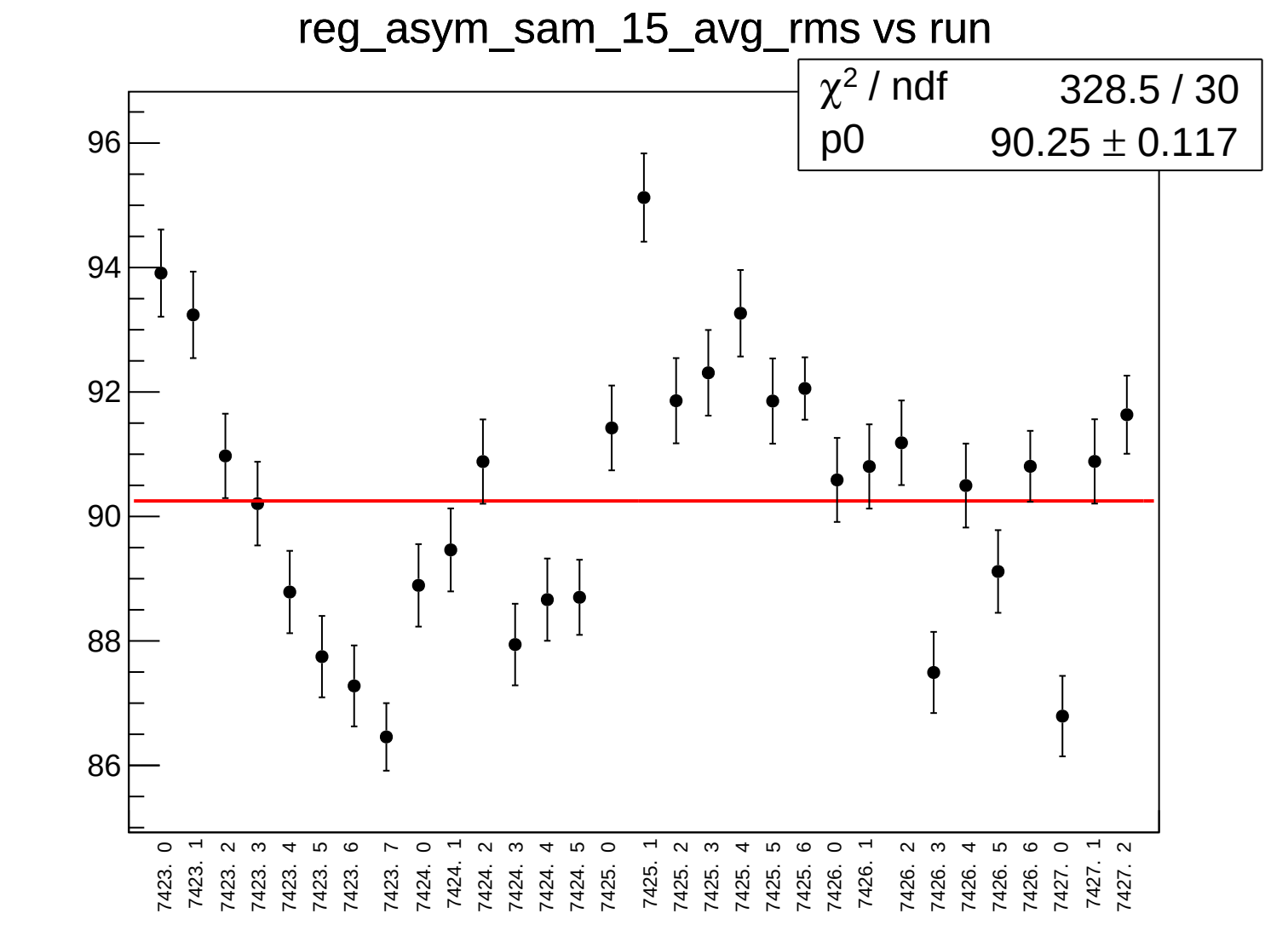

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.32 / 30
p0 1.056e−15 ± 7.777e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −10.72
Std Dev 0
2
1
0
−1
−2

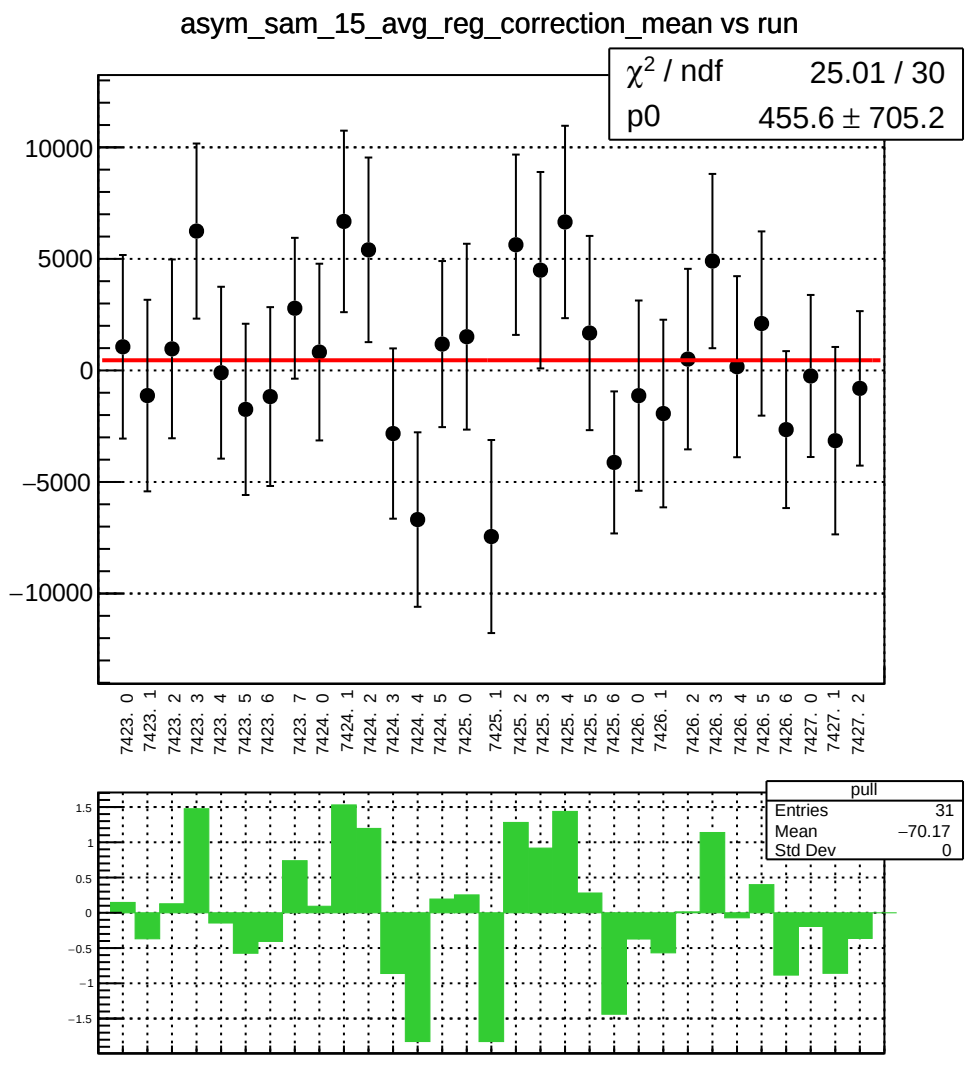

pull1D
Entries 31
Mean −0.1348
Std Dev 1.188
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

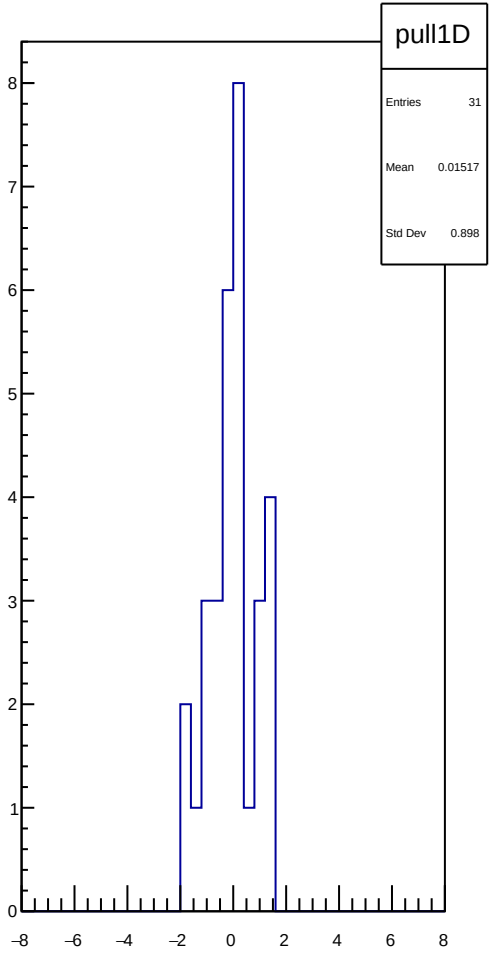

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.593e+05 / 30
p0 3.189e−12 ± 5.499e−15
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

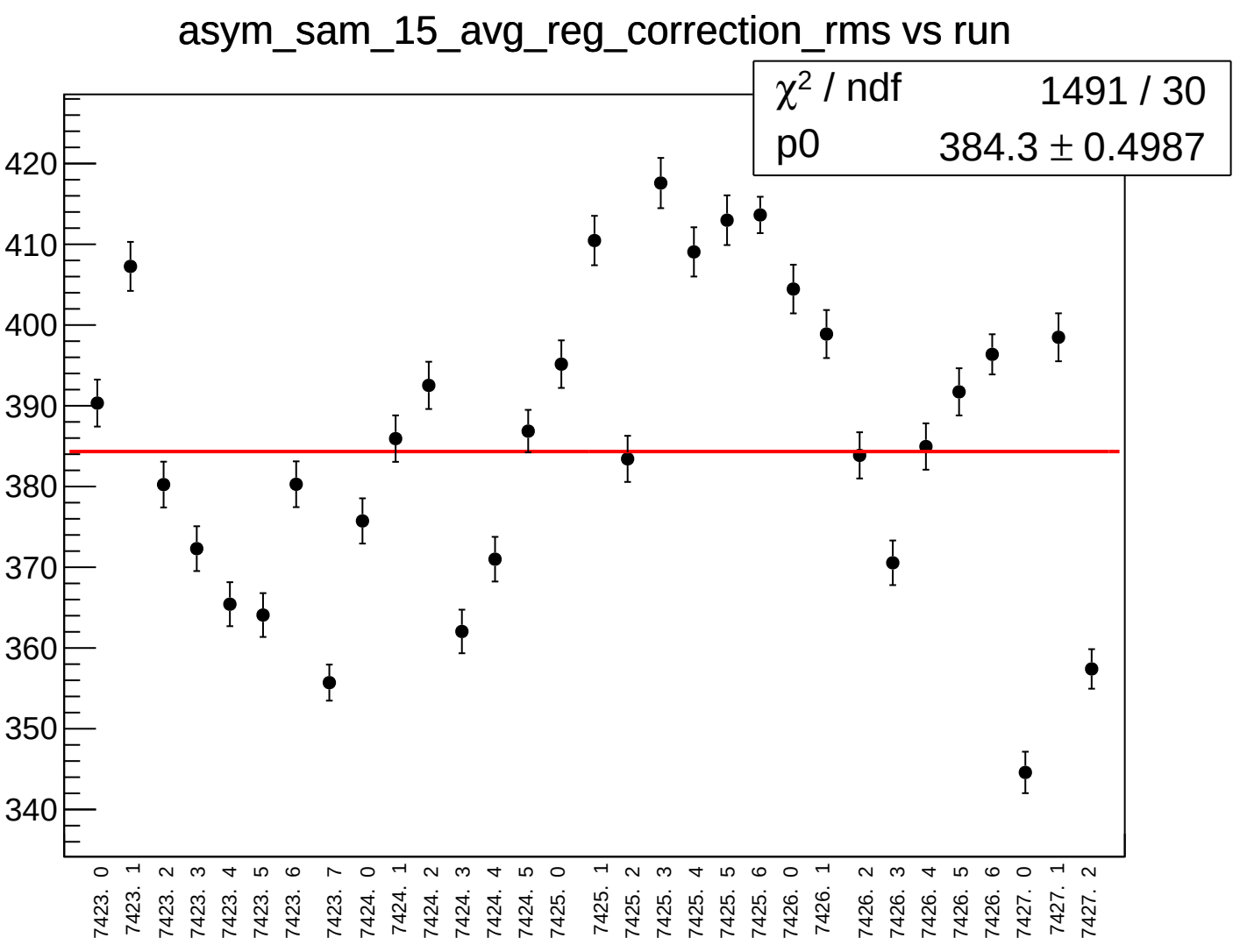

reg_asym_sam_15_avg_mean vs run
χ² / ndf 35.72 / 30
p0 −247.7 ± 165.4
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −130.2
Std Dev 0

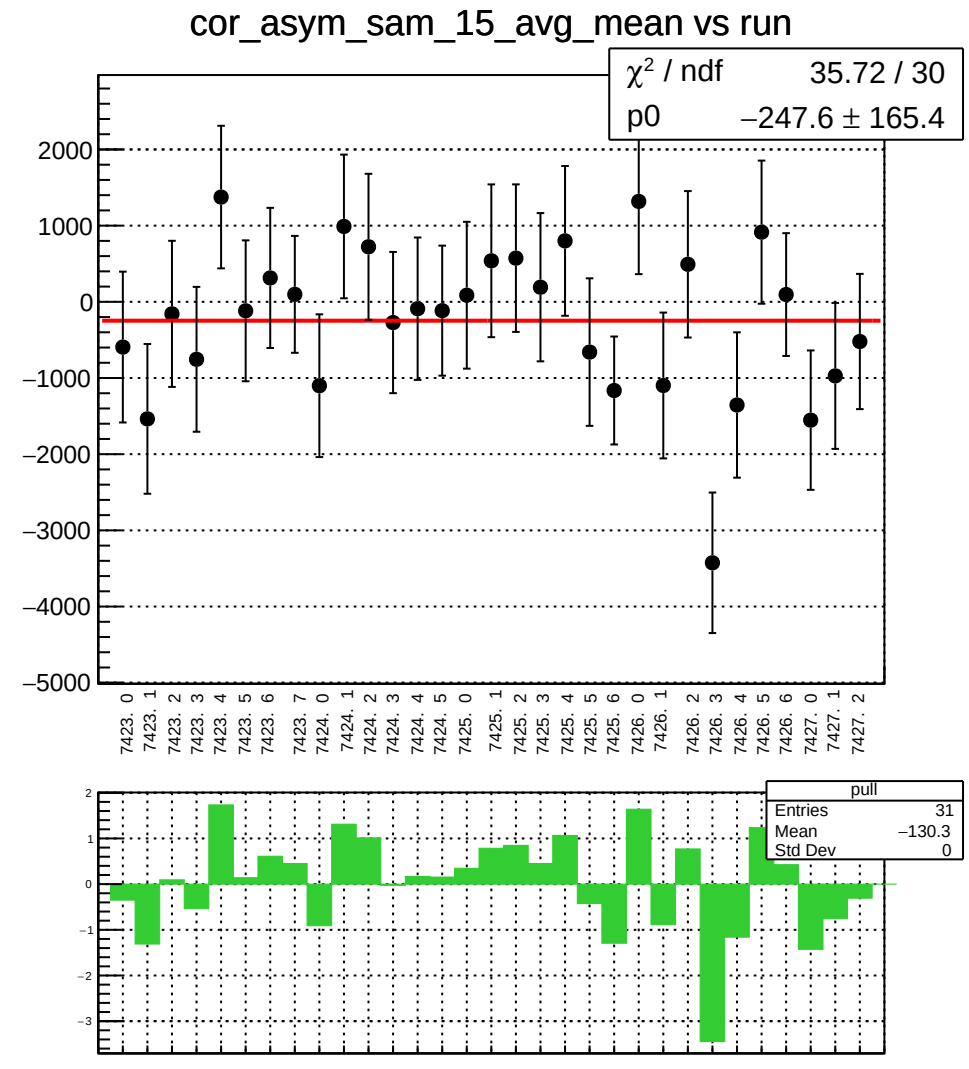

pull1D
Entries 31
Mean 0.01317
Std Dev 1.073

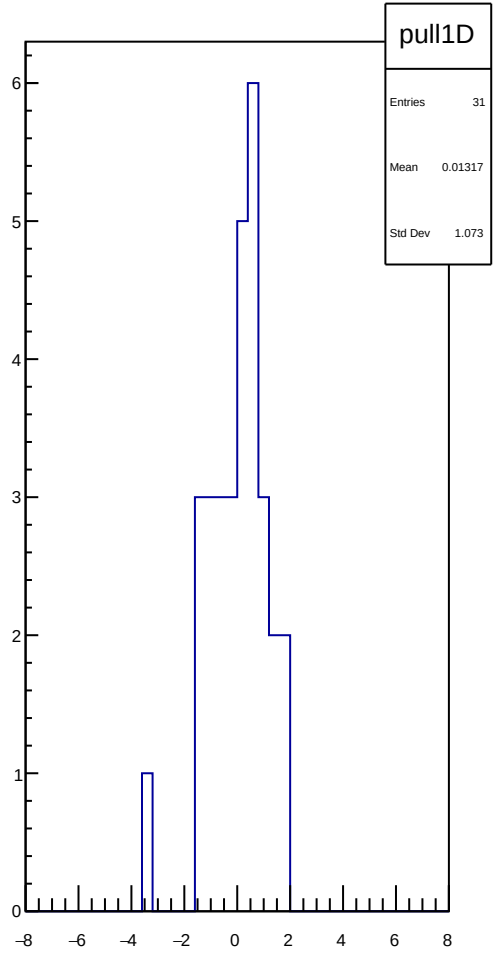

reg_asym_sam_15_avg_rms vs run
χ² / ndf 328.5 / 30
p0 90.25 ± 0.117
96
94
92
90
88
86
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

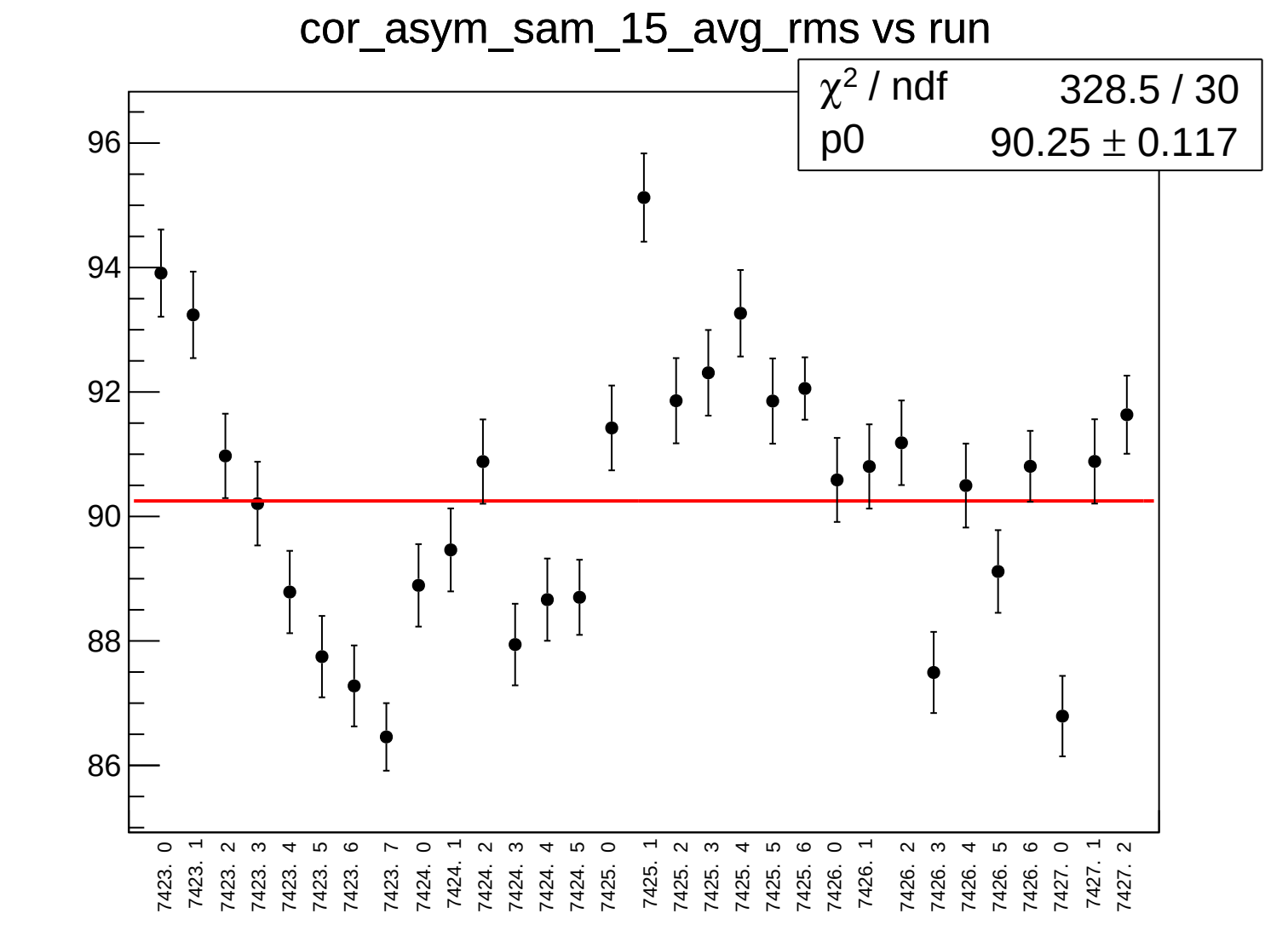

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 25.01 / 30
p0 455.6 ± 705.2
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −70.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

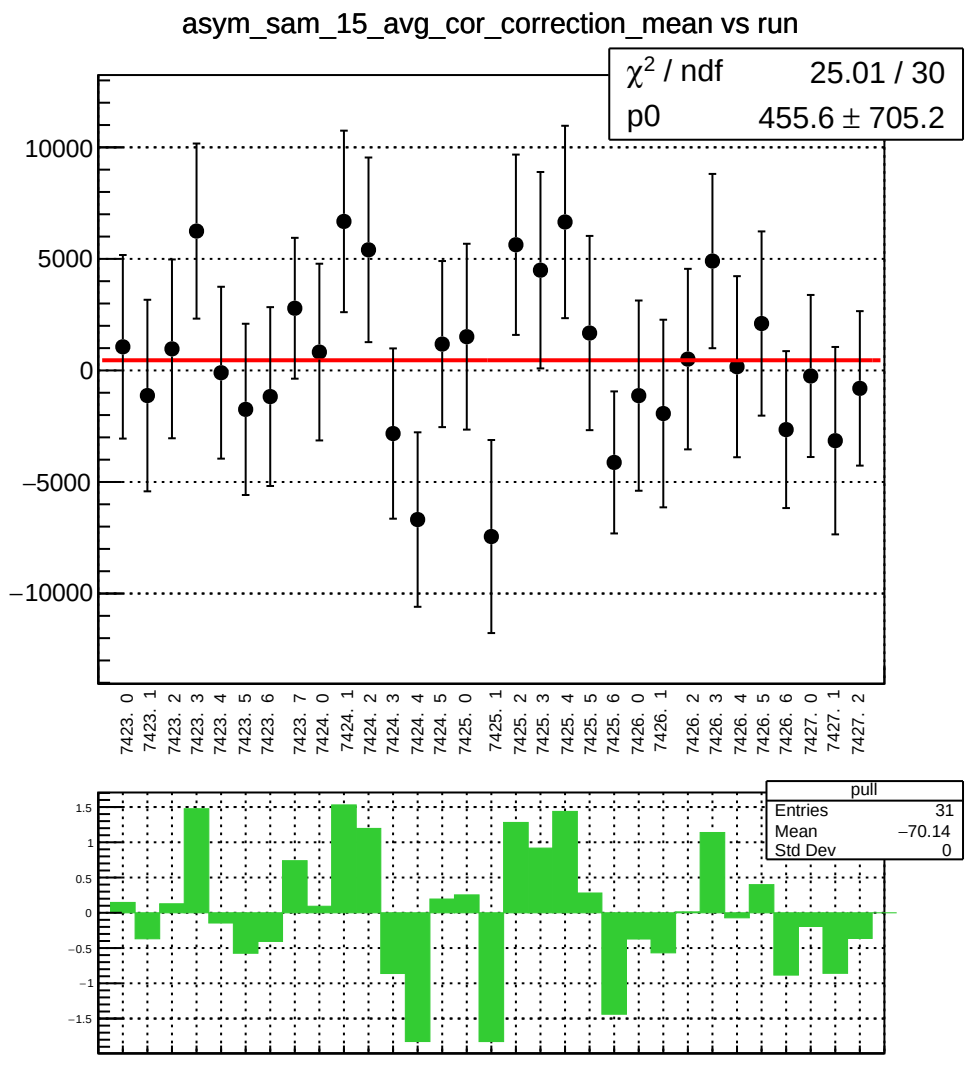

pull1D
Entries 31
Mean 0.01517
Std Dev 0.898
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

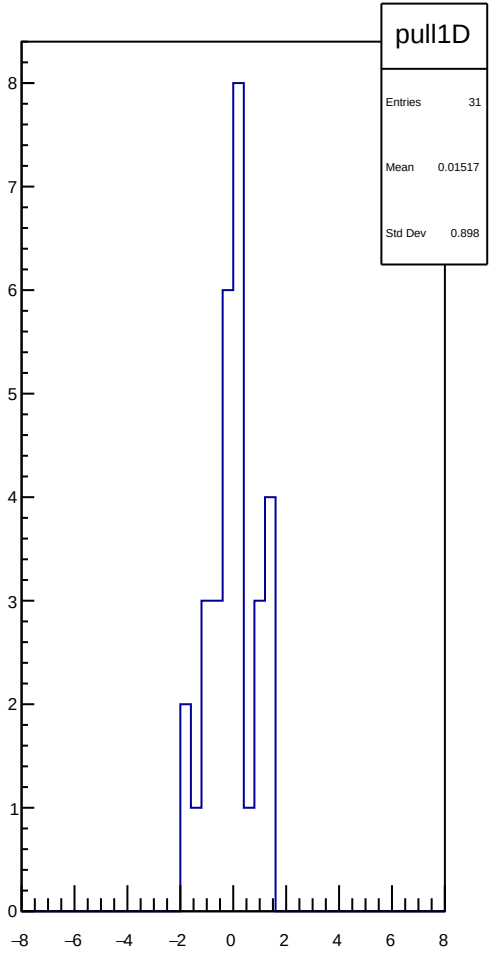

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1491 / 30
p0 384.3 ± 0.4987
420
410
400
390
380
370
360
350
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

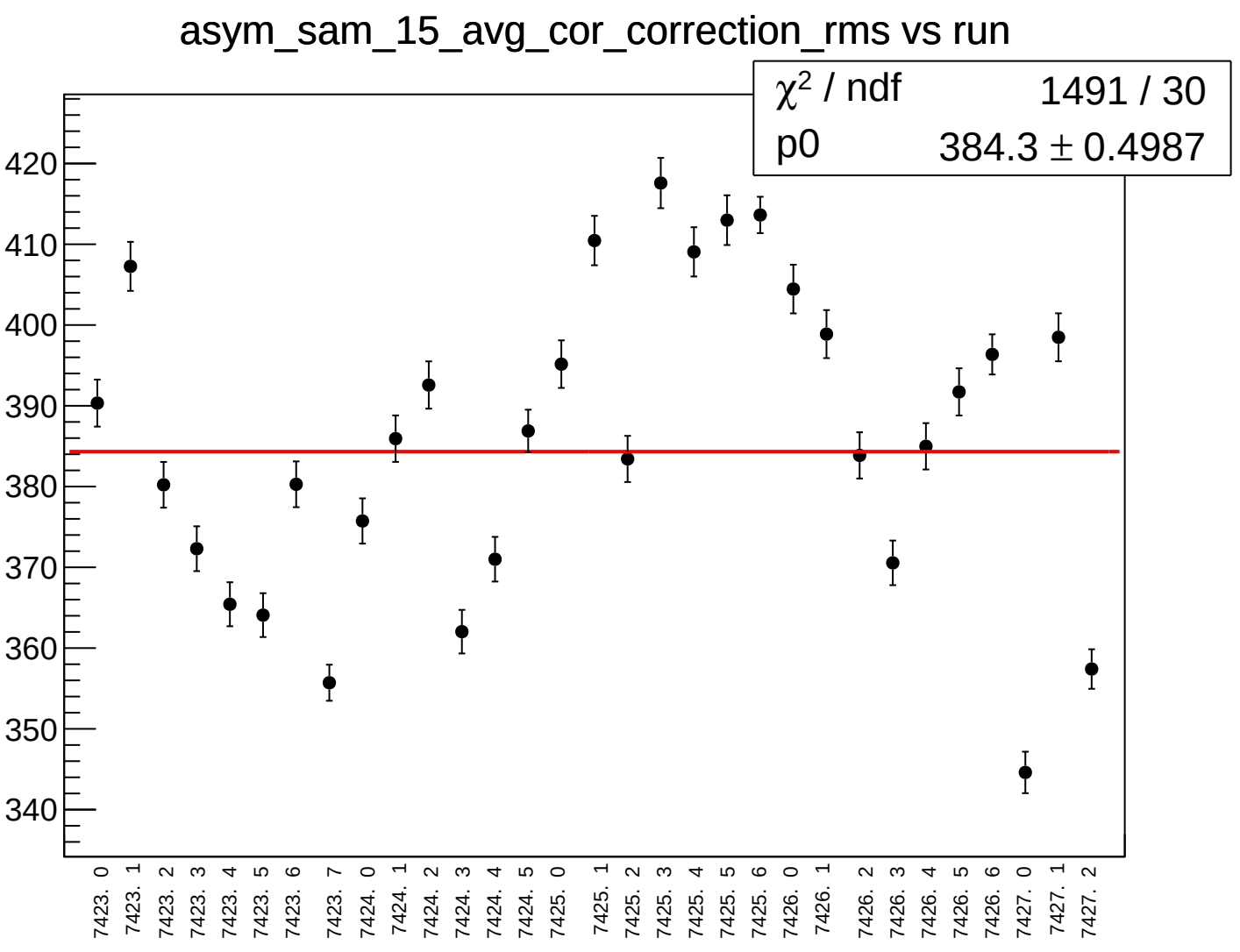

cor_asym_sam_15_avg_mean vs run
χ² / ndf 35.72 / 30
p0 −247.6 ± 165.4
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −130.3
Std Dev 0

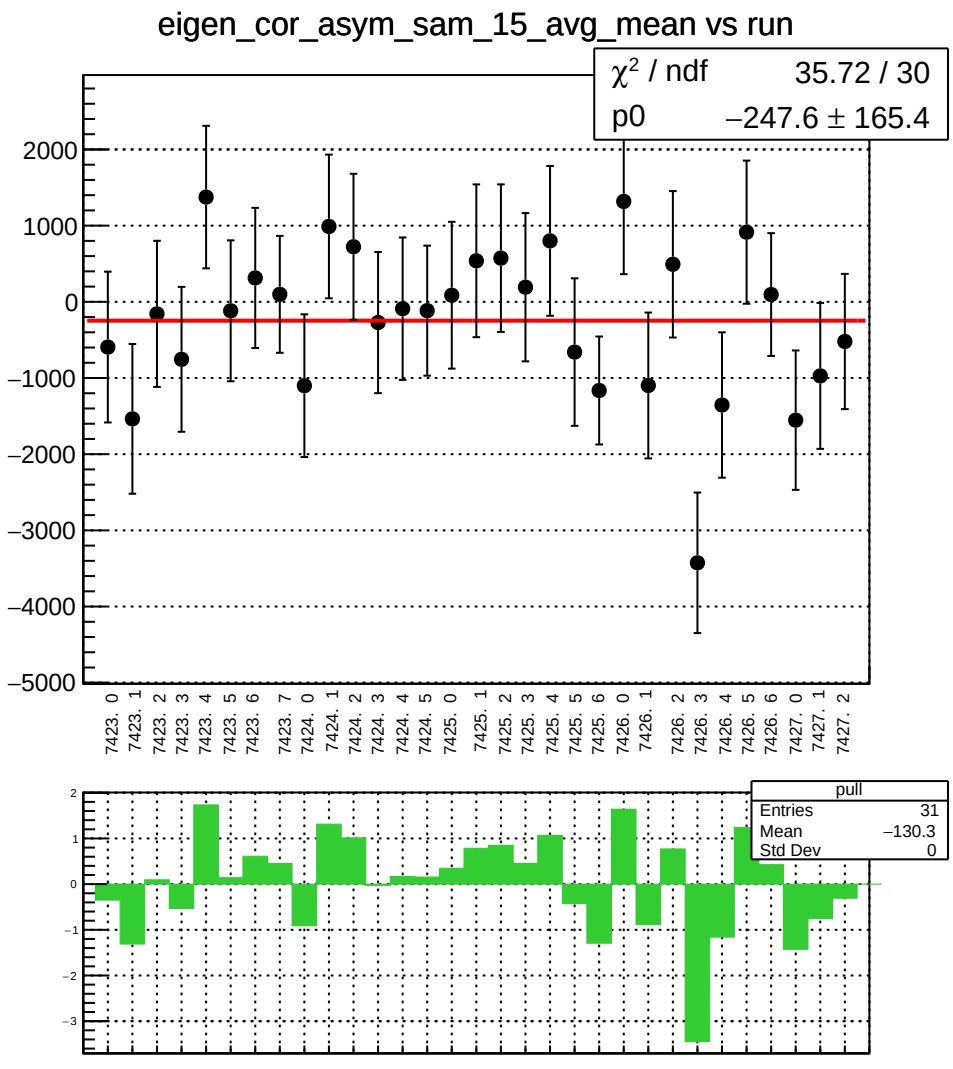

pull1D
Entries 31
Mean 0.01317
Std Dev 1.073

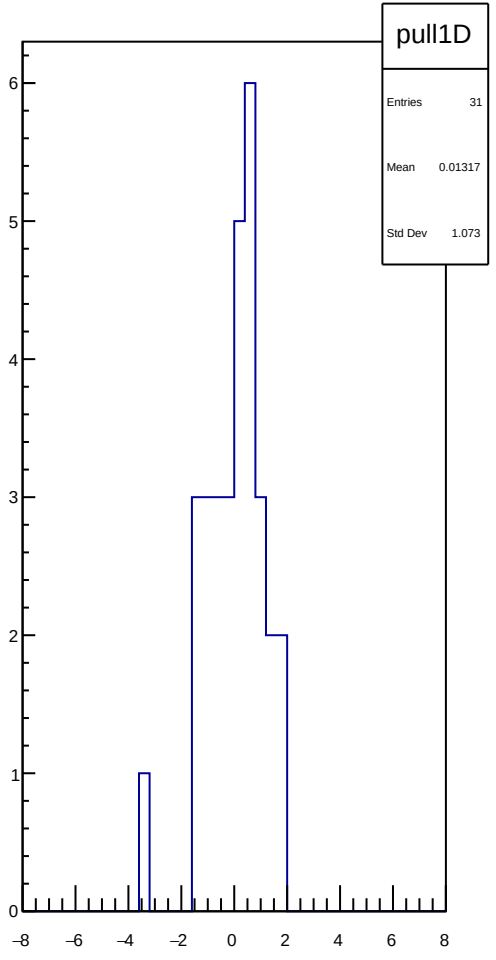

cor_asym_sam_15_avg_rms vs run
χ² / ndf 328.5 / 30
p0 90.25 ± 0.117
96
94
92
90
88
86
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

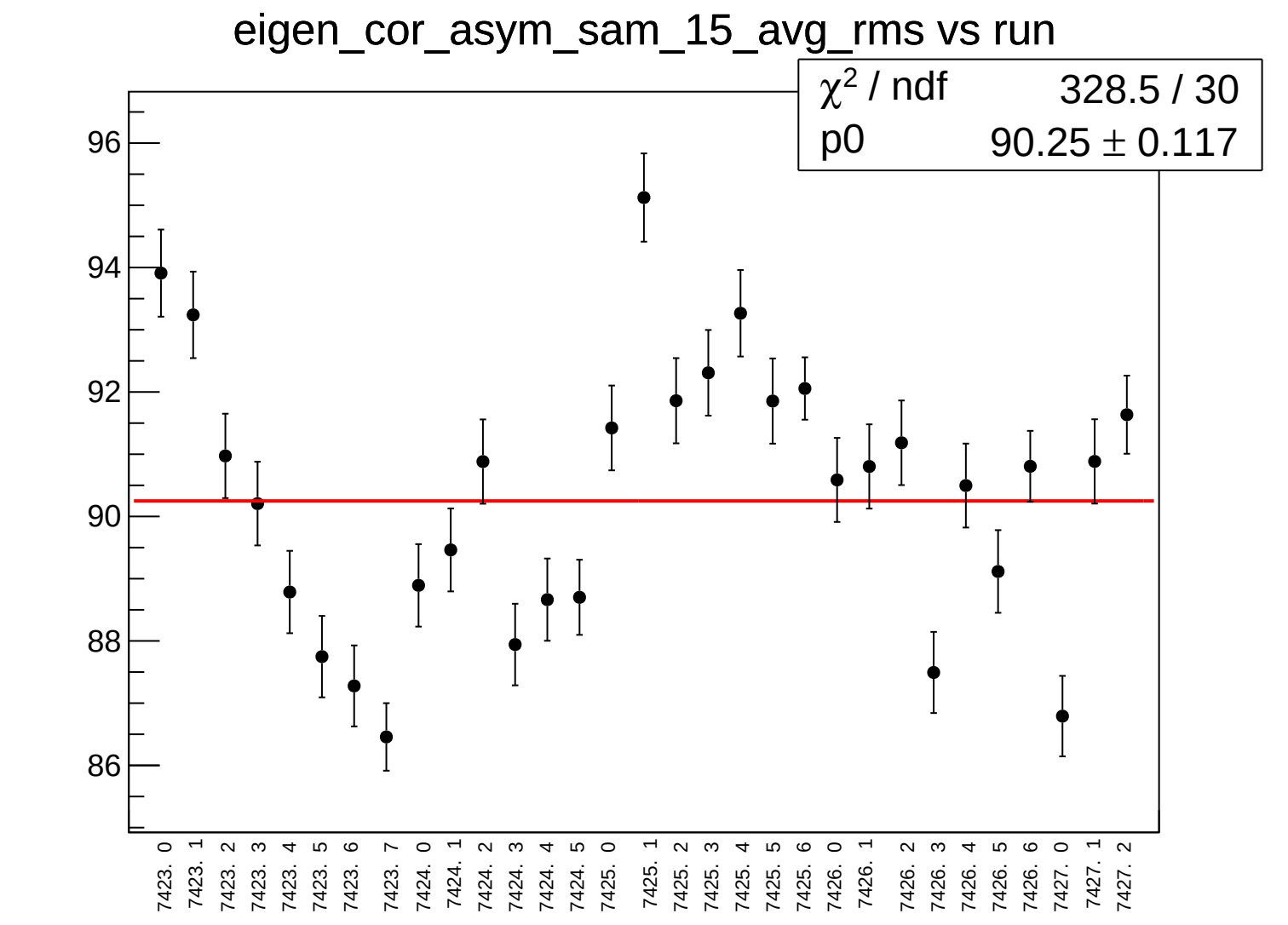

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 25.01 / 30
p0 455.6 ± 705.2
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −70.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

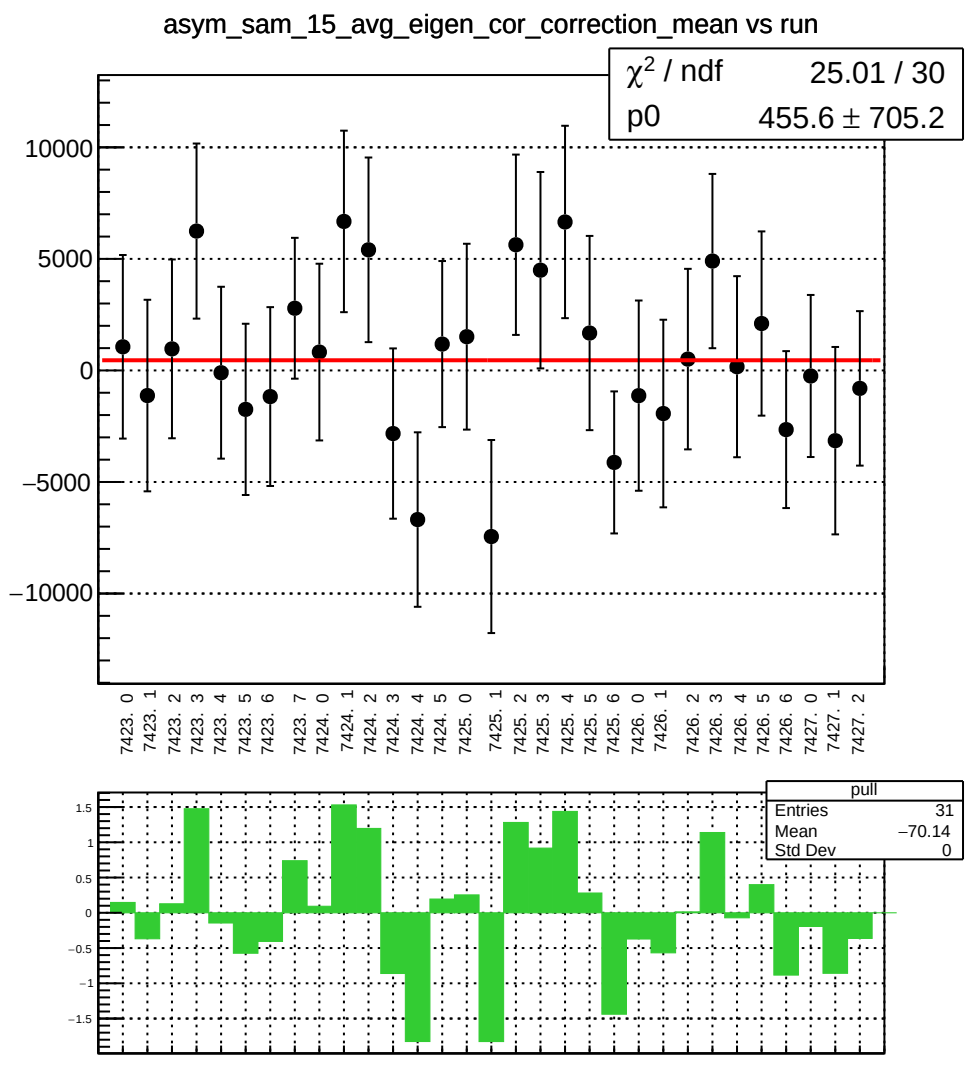

pull1D
Entries 31
Mean 0.01517
Std Dev 0.898
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

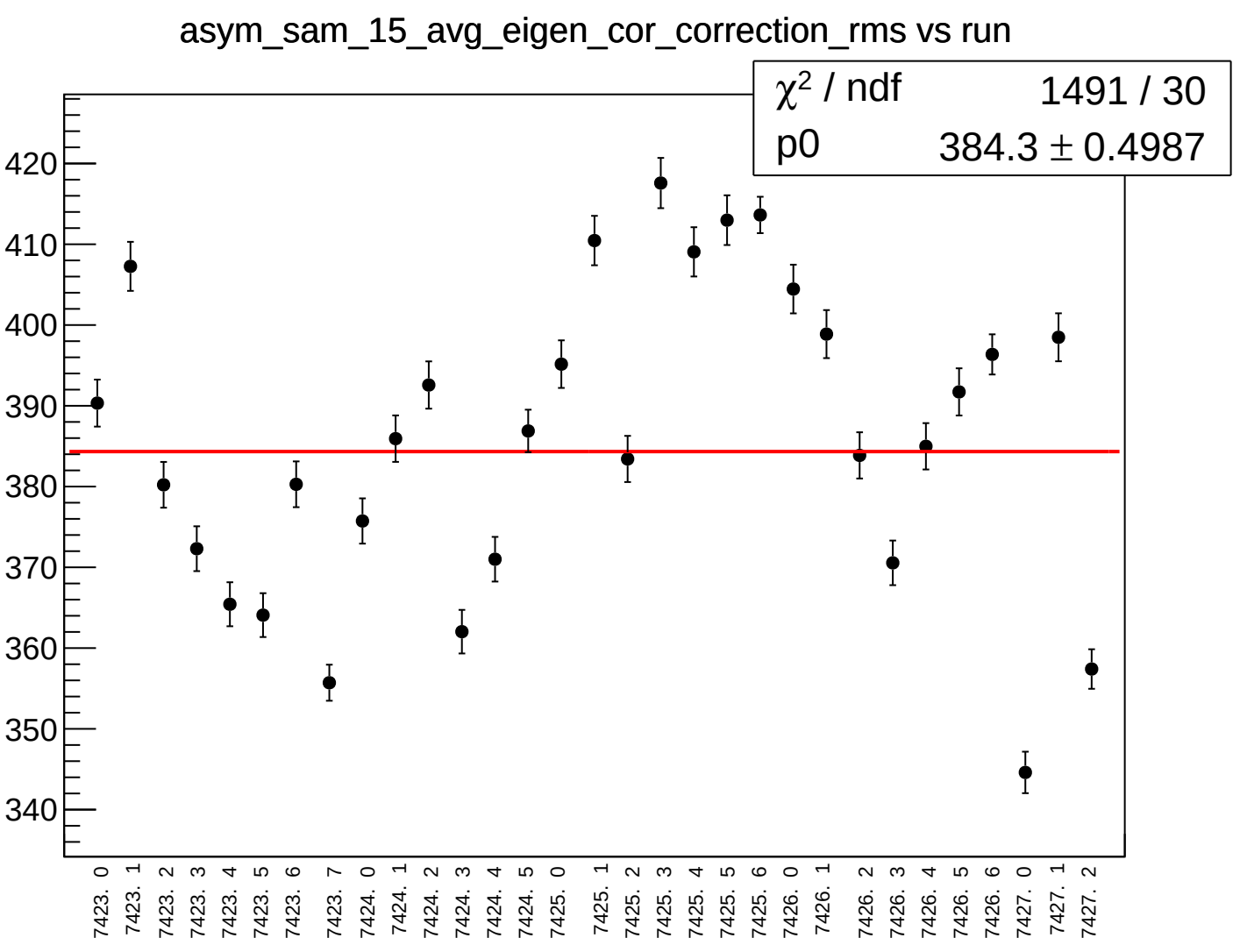

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1491 / 30
p0 384.3 ± 0.4987
420
410
400
390
380
370
360
350
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

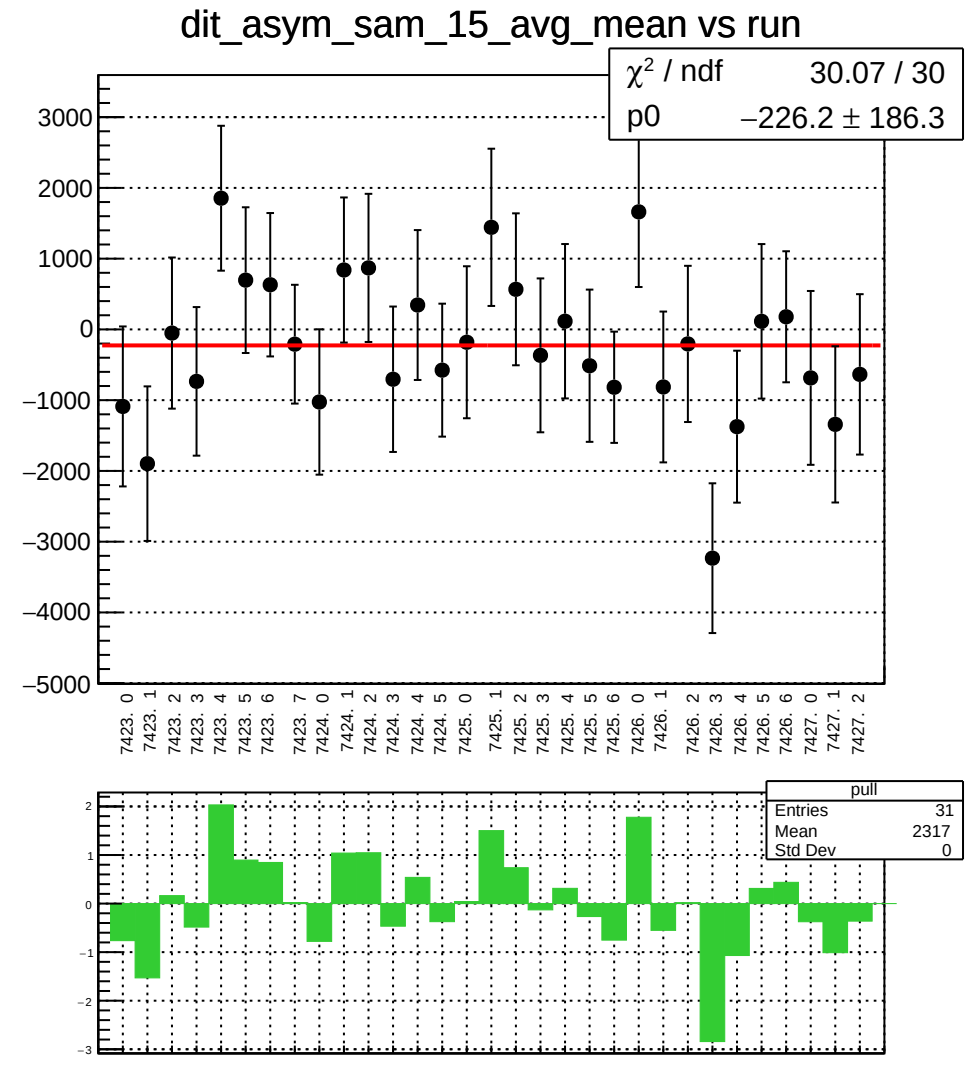

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 35.72 / 30
p0 −247.6 ± 165.4
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −130.3
Std Dev 0

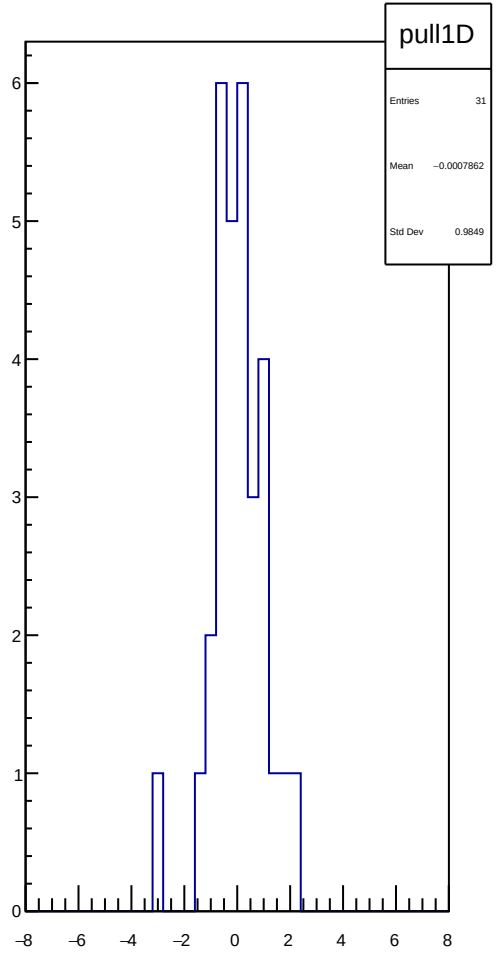

pull1D
Entries 31
Mean 0.01317
Std Dev 1.073

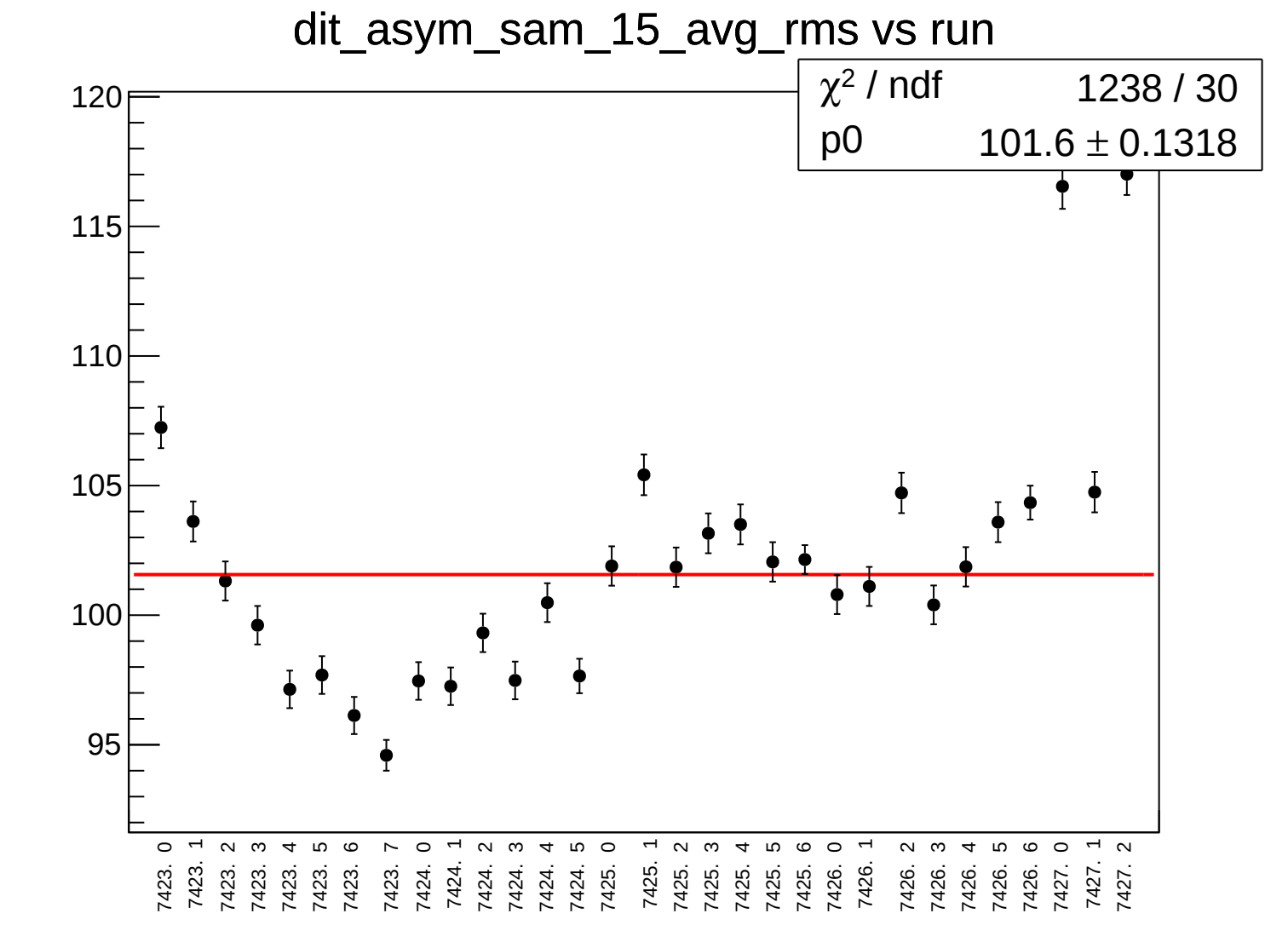

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 328.5 / 30
p0 90.25 ± 0.117
96
94
92
90
88
86
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

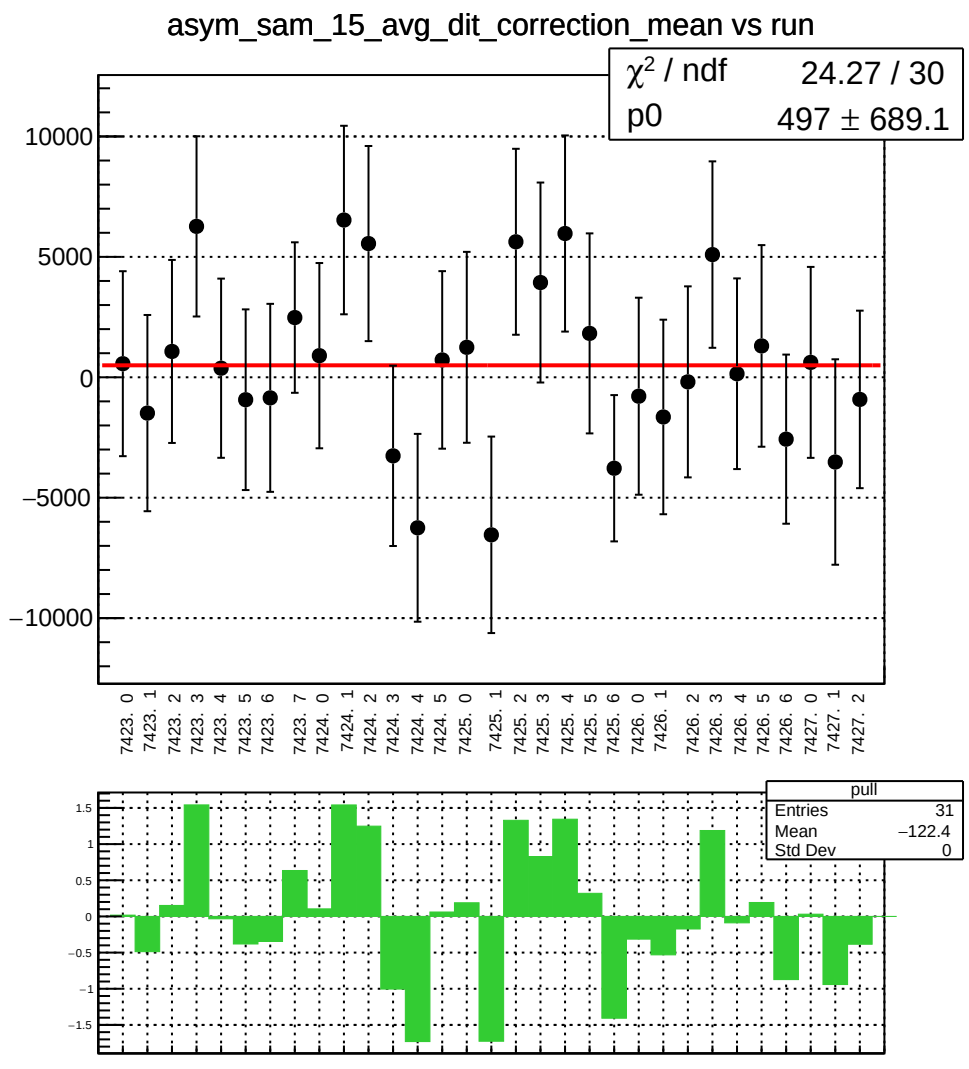

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 25.01 / 30
p0 455.6 ± 705.2
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −70.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01517
Std Dev 0.898
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

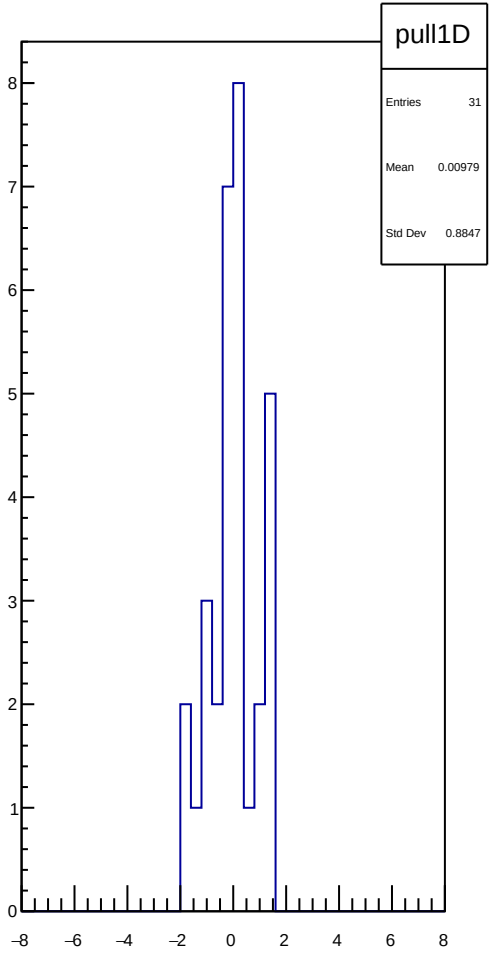

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1491 / 30
p0 384.3 ± 0.4987
420
410
400
390
380
370
360
350
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

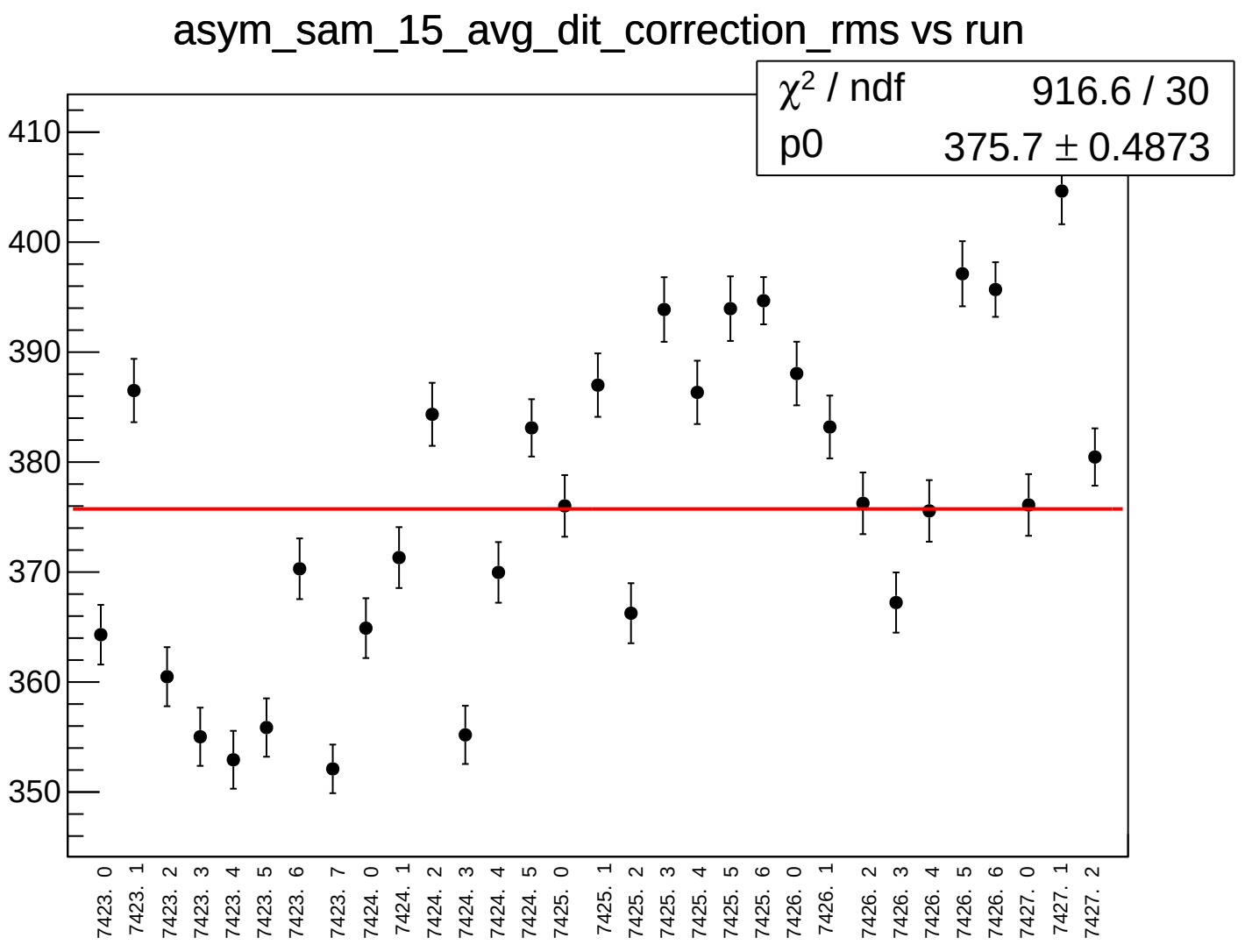

dit_asym_sam_15_avg_mean vs run
χ² / ndf 30.07 / 30
p0 −226.2 ± 186.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 2317
Std Dev 0
2
1
0
−1
−2
−3

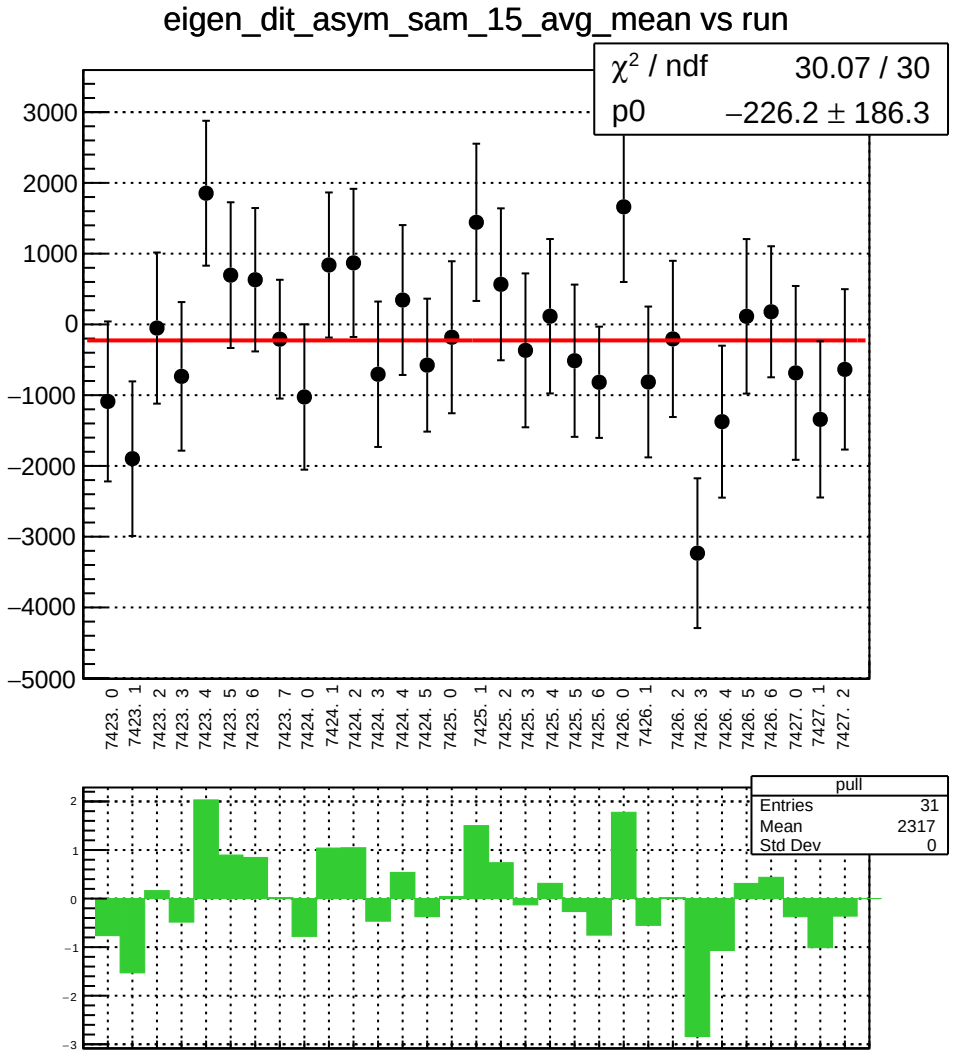

pull1D
Entries 31
Mean −0.0007862
Std Dev 0.9849
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

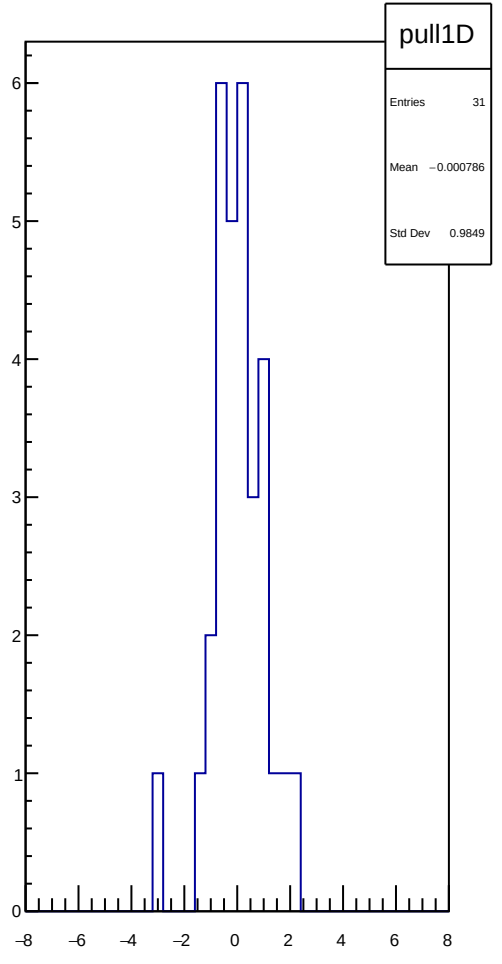

dit_asym_sam_15_avg_rms vs run
χ² / ndf 1238 / 30
p0 101.6 ± 0.1318
120
115
110
105
100
95
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

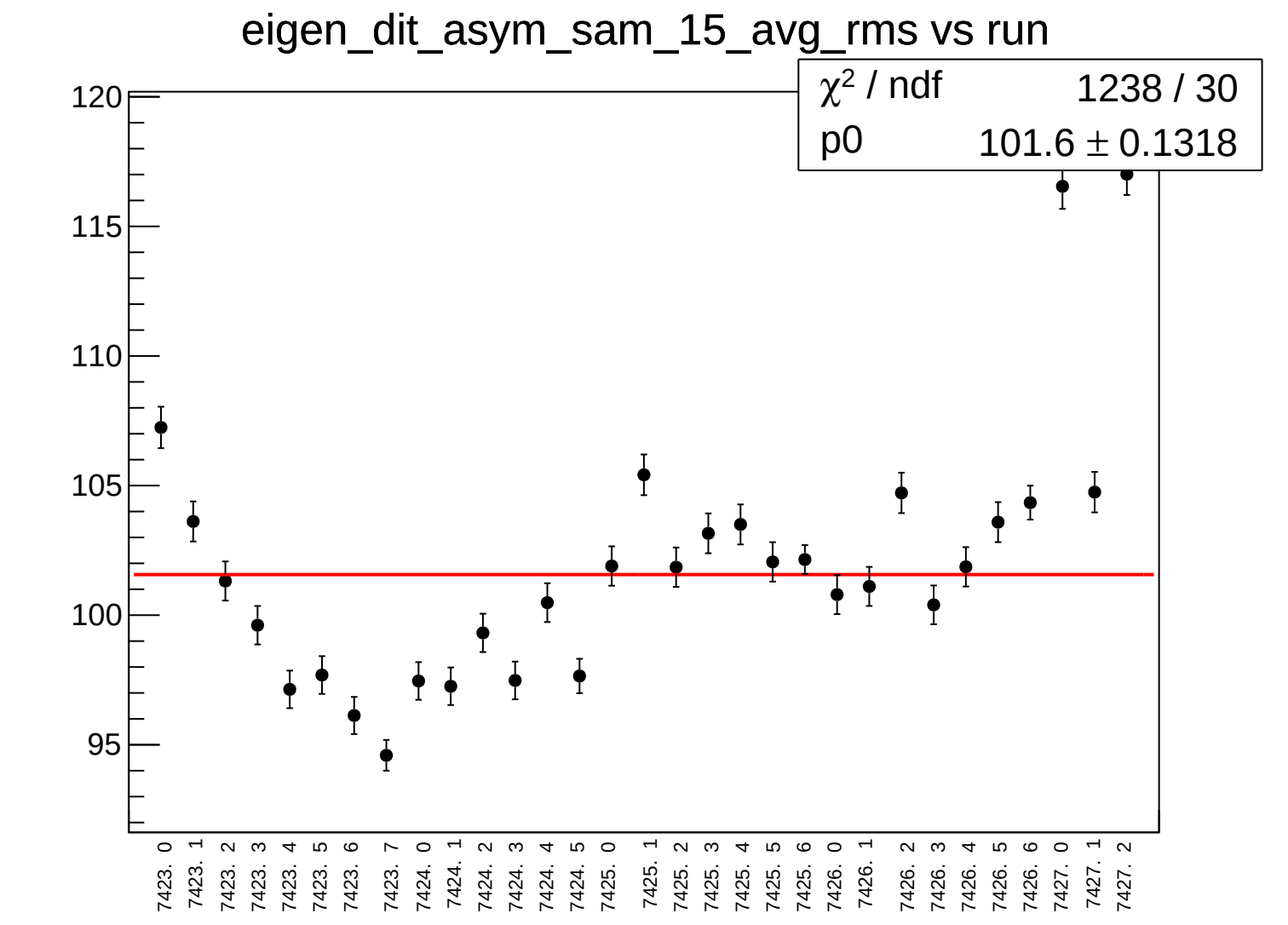

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 24.27 / 30
p0 497 ± 689.1
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −122.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

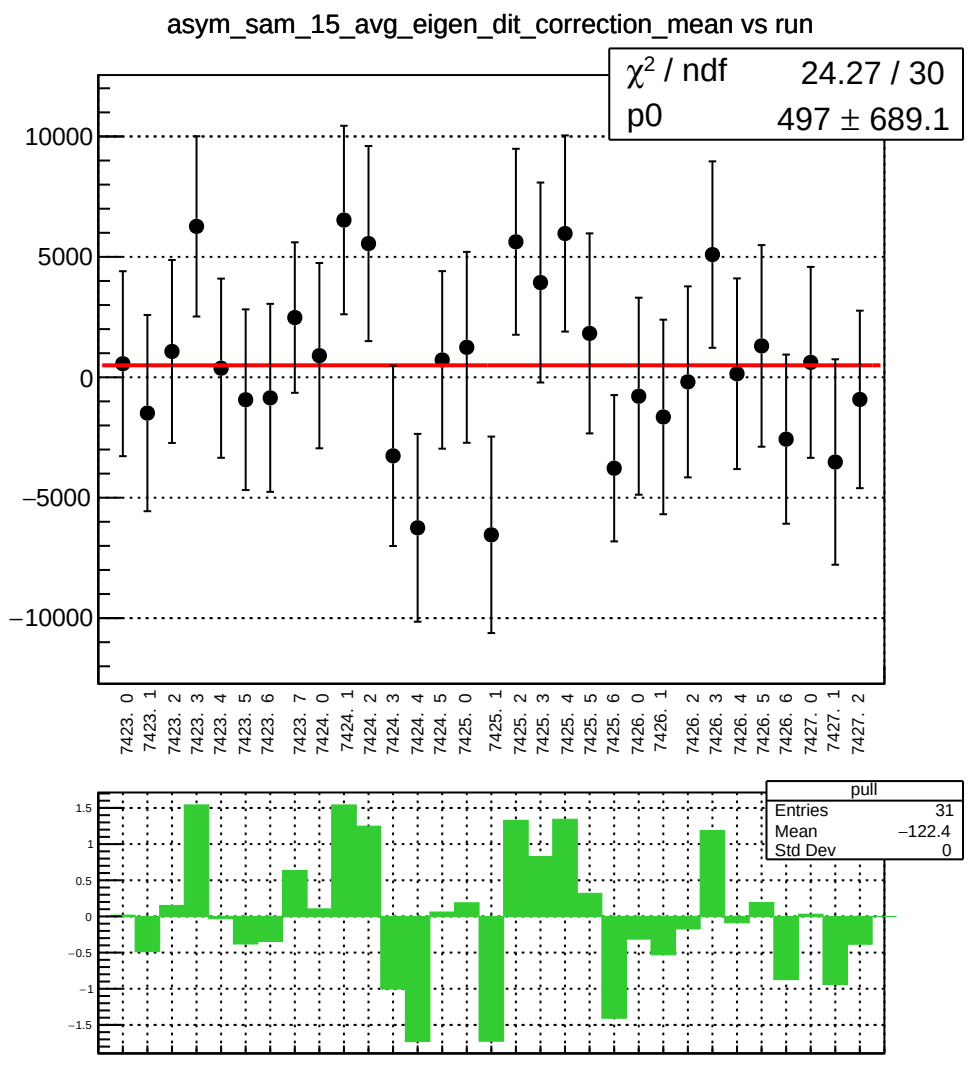

pull1D
Entries 31
Mean 0.00979
Std Dev 0.8847
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

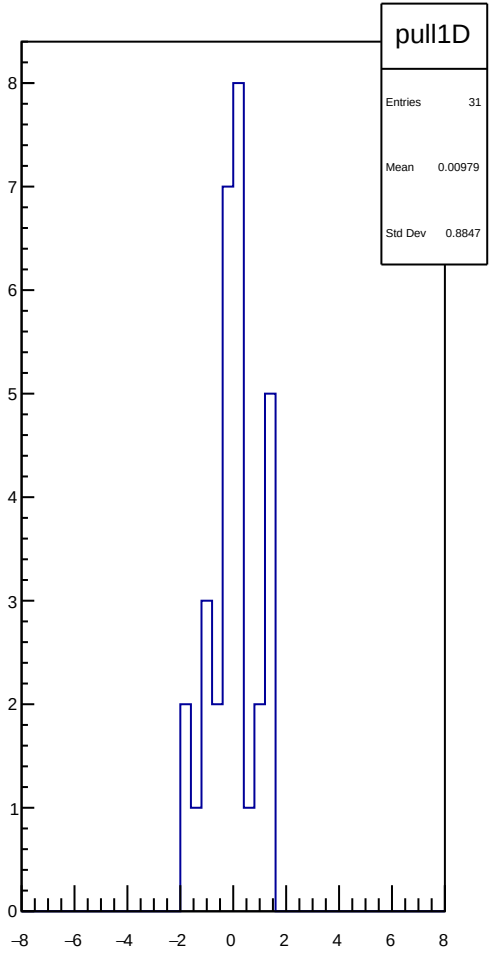

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 916.6 / 30
p0 375.7 ± 0.4873
410
400
390
380
370
360
350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

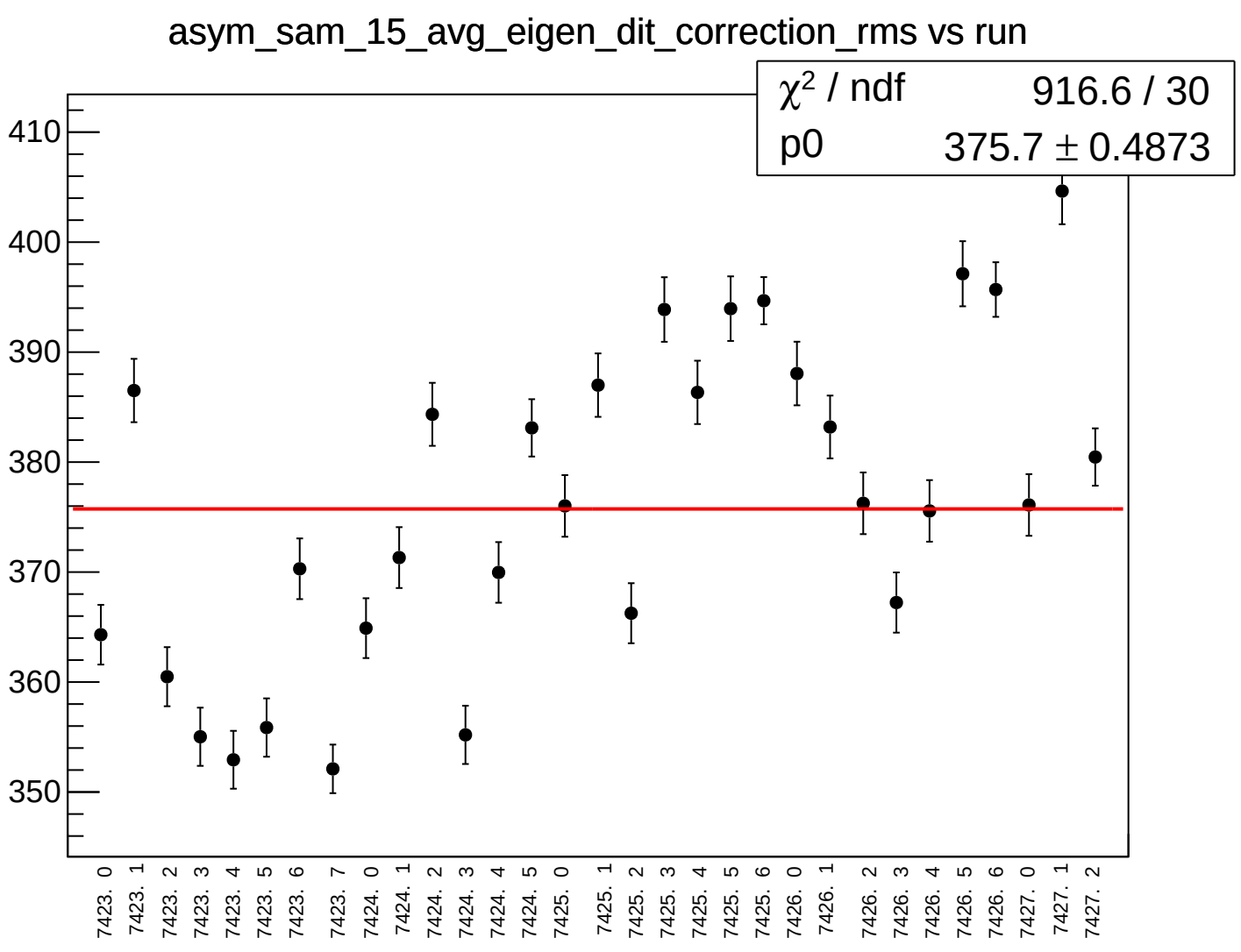

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 30.07 / 30
p0 −226.2 ± 186.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 2317
Std Dev 0
2
1
0
−1
−2
−3

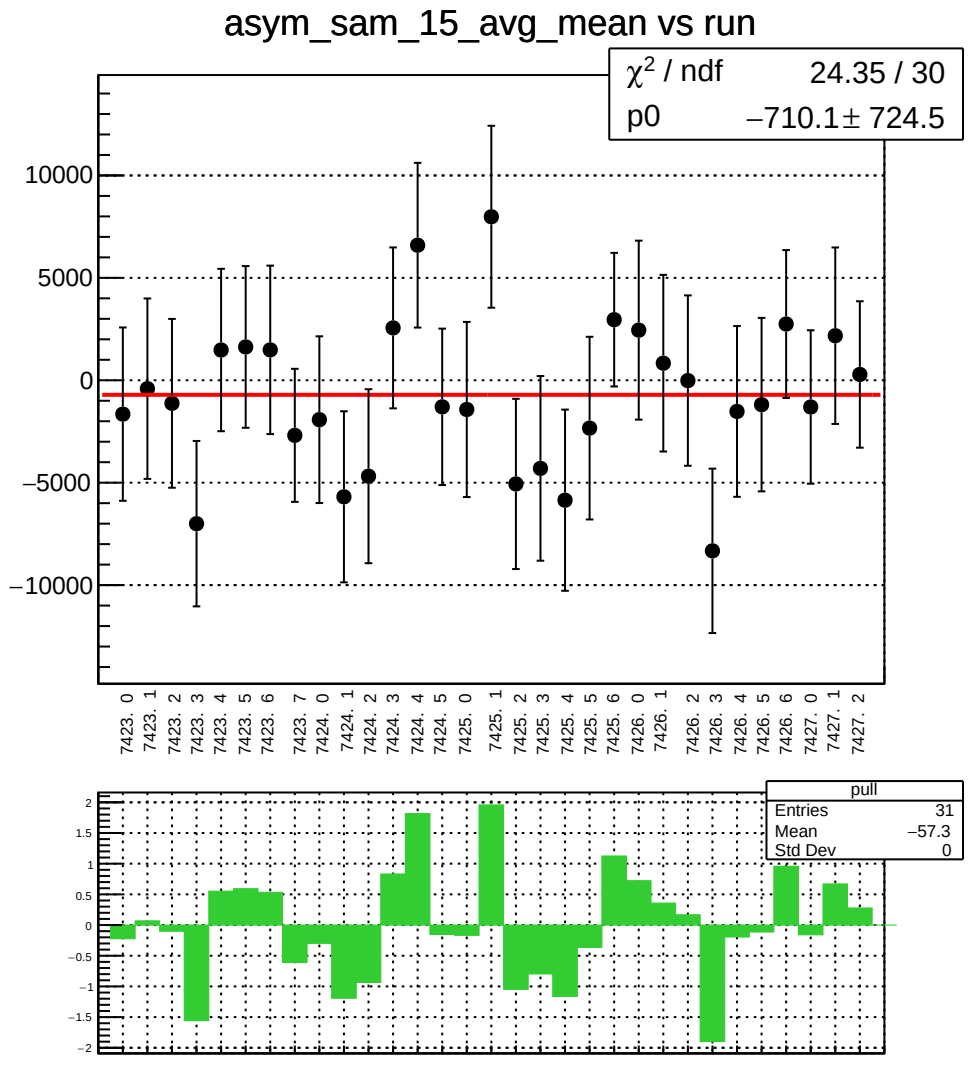

pull1D
Entries 31
Mean −0.000786
Std Dev 0.9849
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

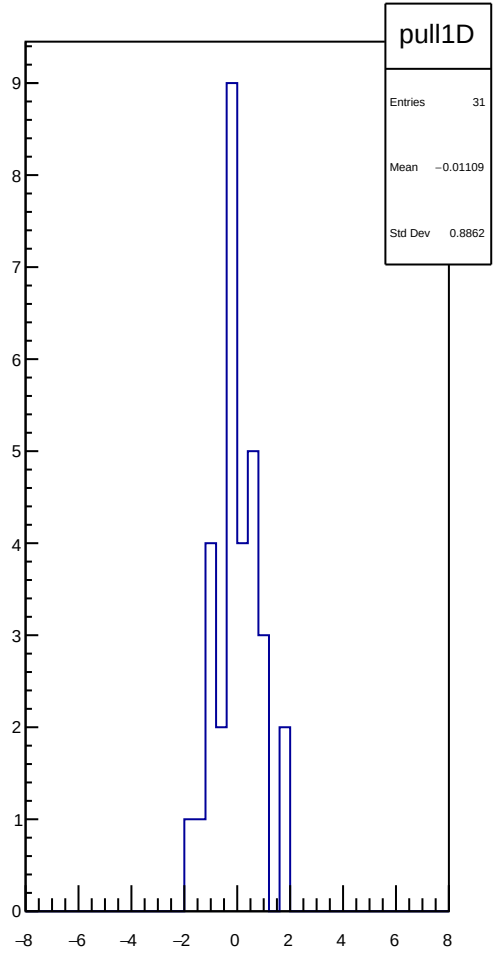

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1238 / 30
p0 101.6 ± 0.1318
120
115
110
105
100
95
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

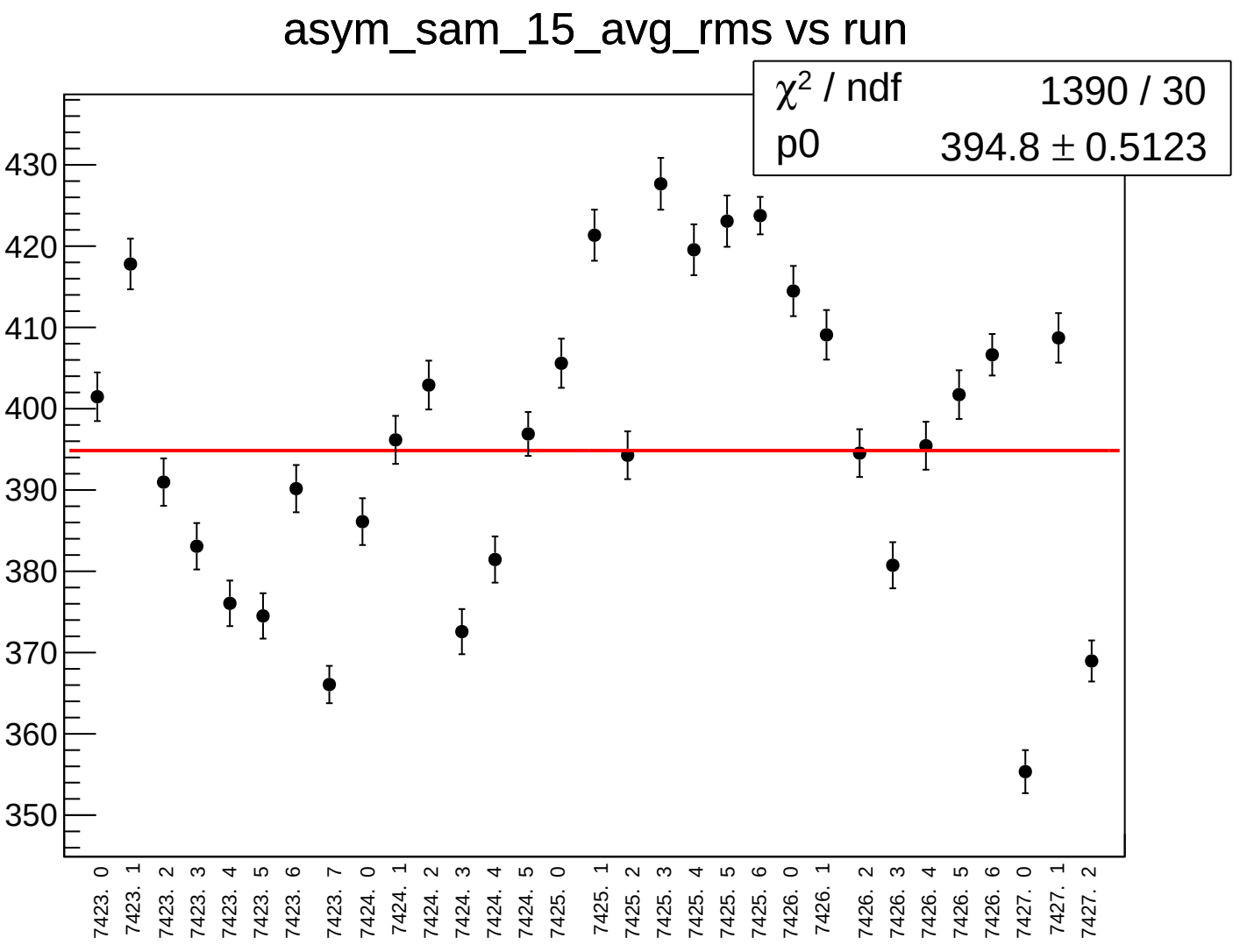

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 24.27 / 30
p0 497 ± 689.1
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −122.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

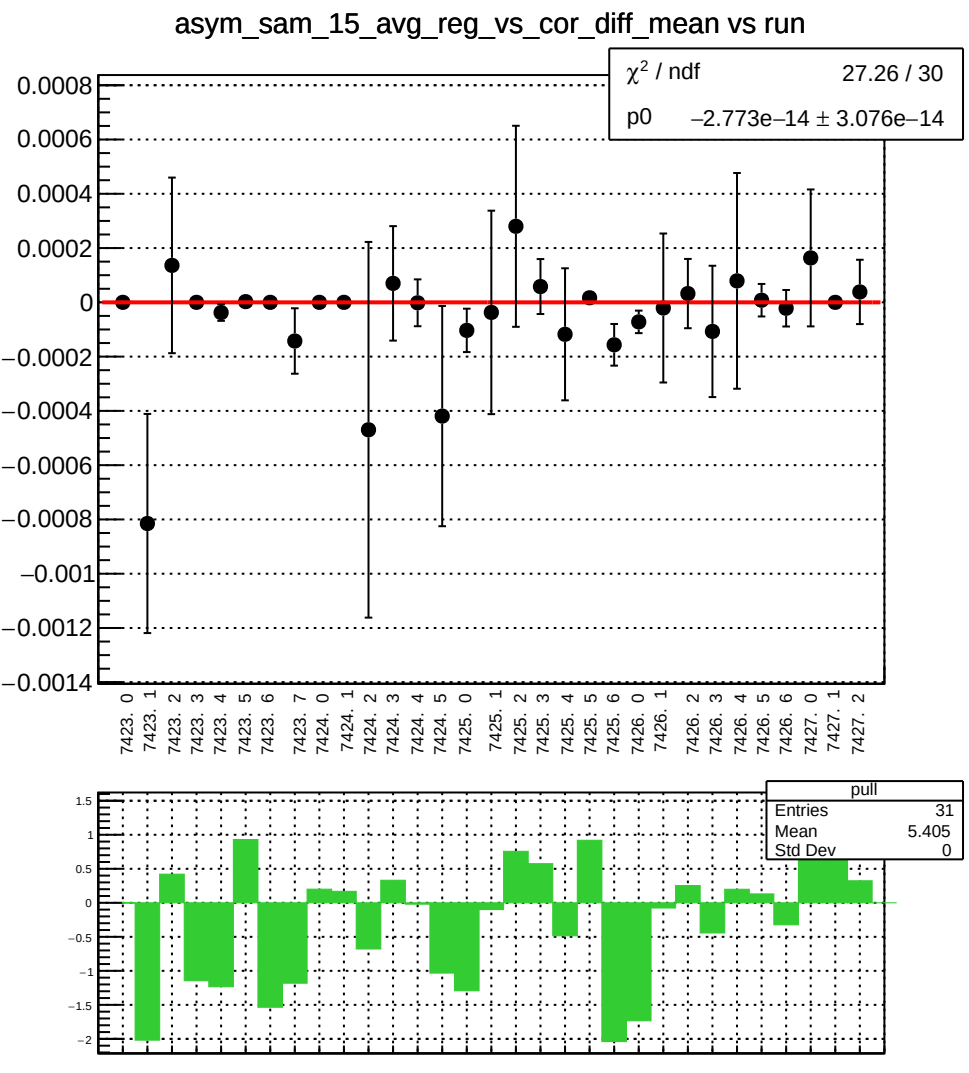

pull1D
Entries 31
Mean 0.00979
Std Dev 0.8847
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

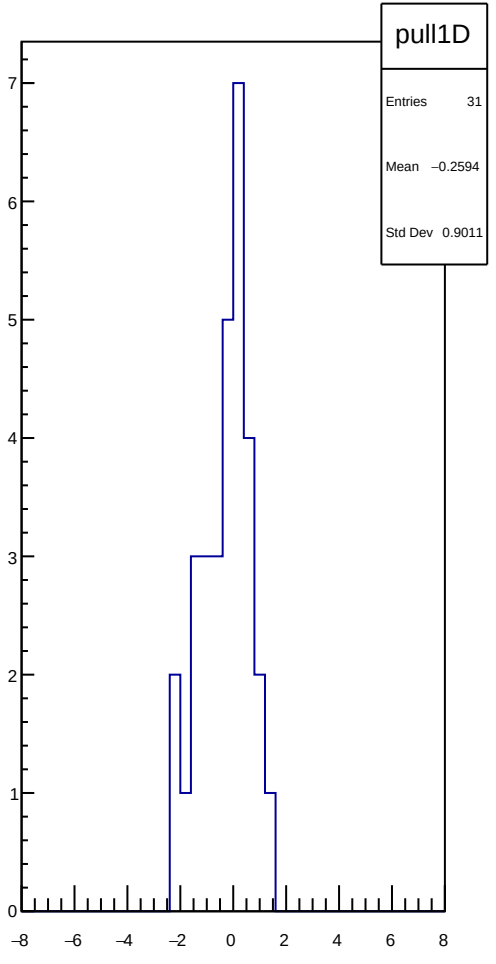

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 916.6 / 30
p0 375.7 ± 0.4873
410
400
390
380
370
360
350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

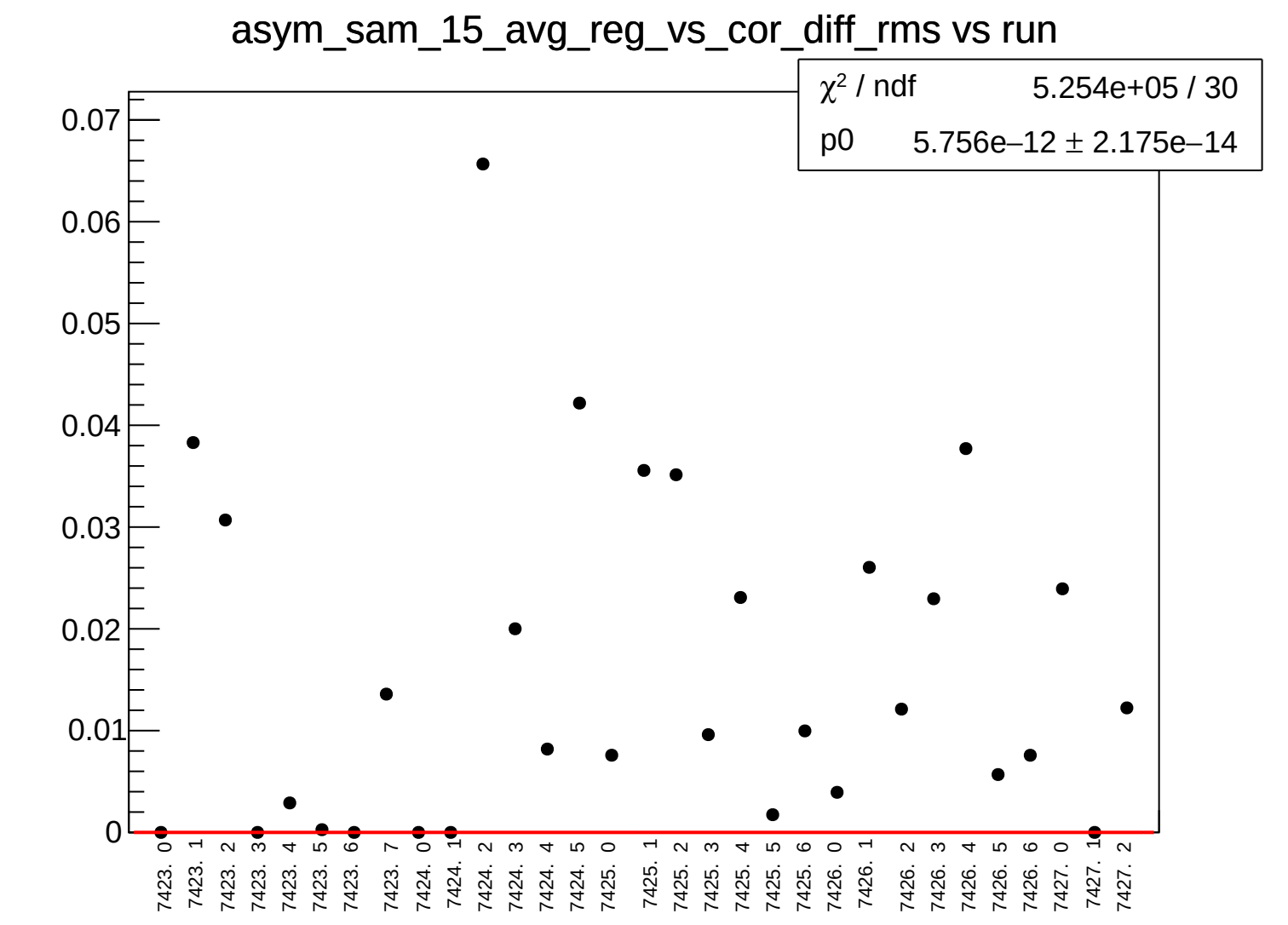

asym_sam_15_avg_mean vs run
χ² / ndf 24.35 / 30
p0 −710.1± 724.5
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −57.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

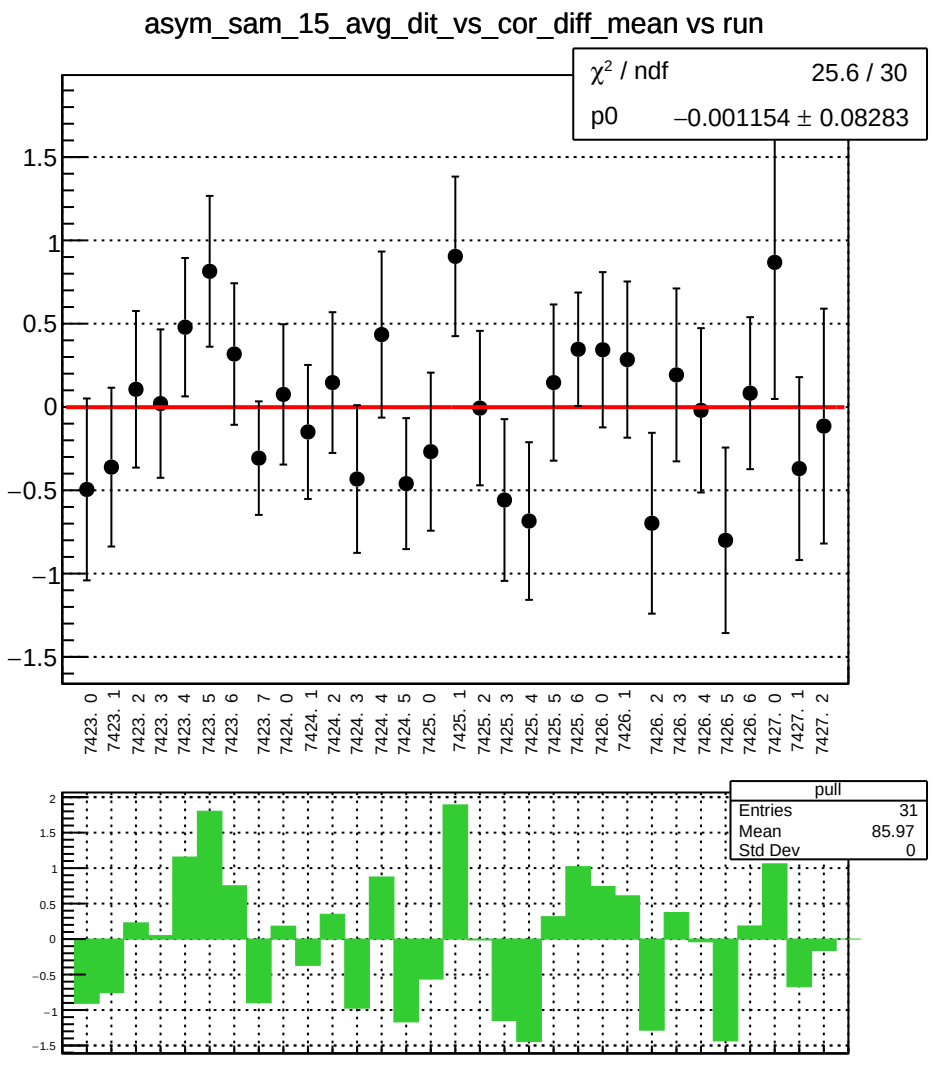

pull1D
Entries 31
Mean −0.01109
Std Dev 0.8862
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

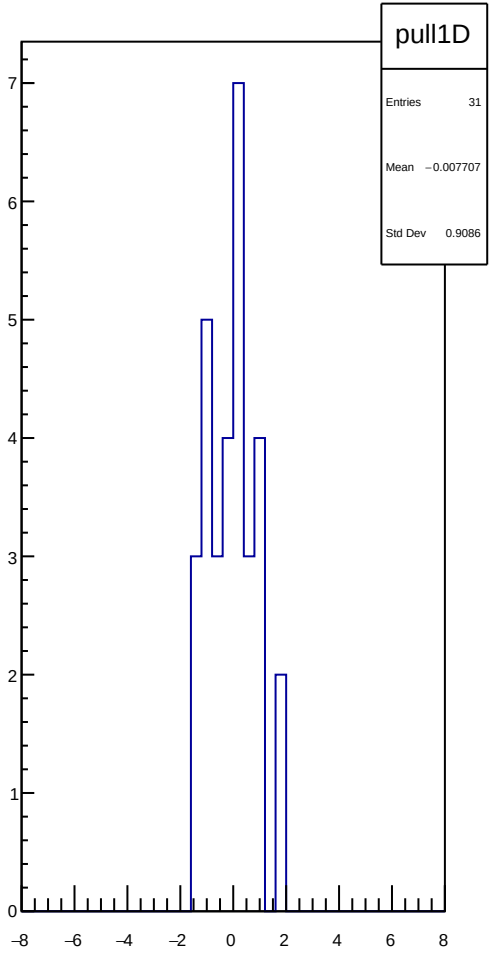

asym_sam_15_avg_rms vs run
χ² / ndf 1390 / 30
p0 394.8 ± 0.5123
430
420
410
400
390
380
370
360
350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

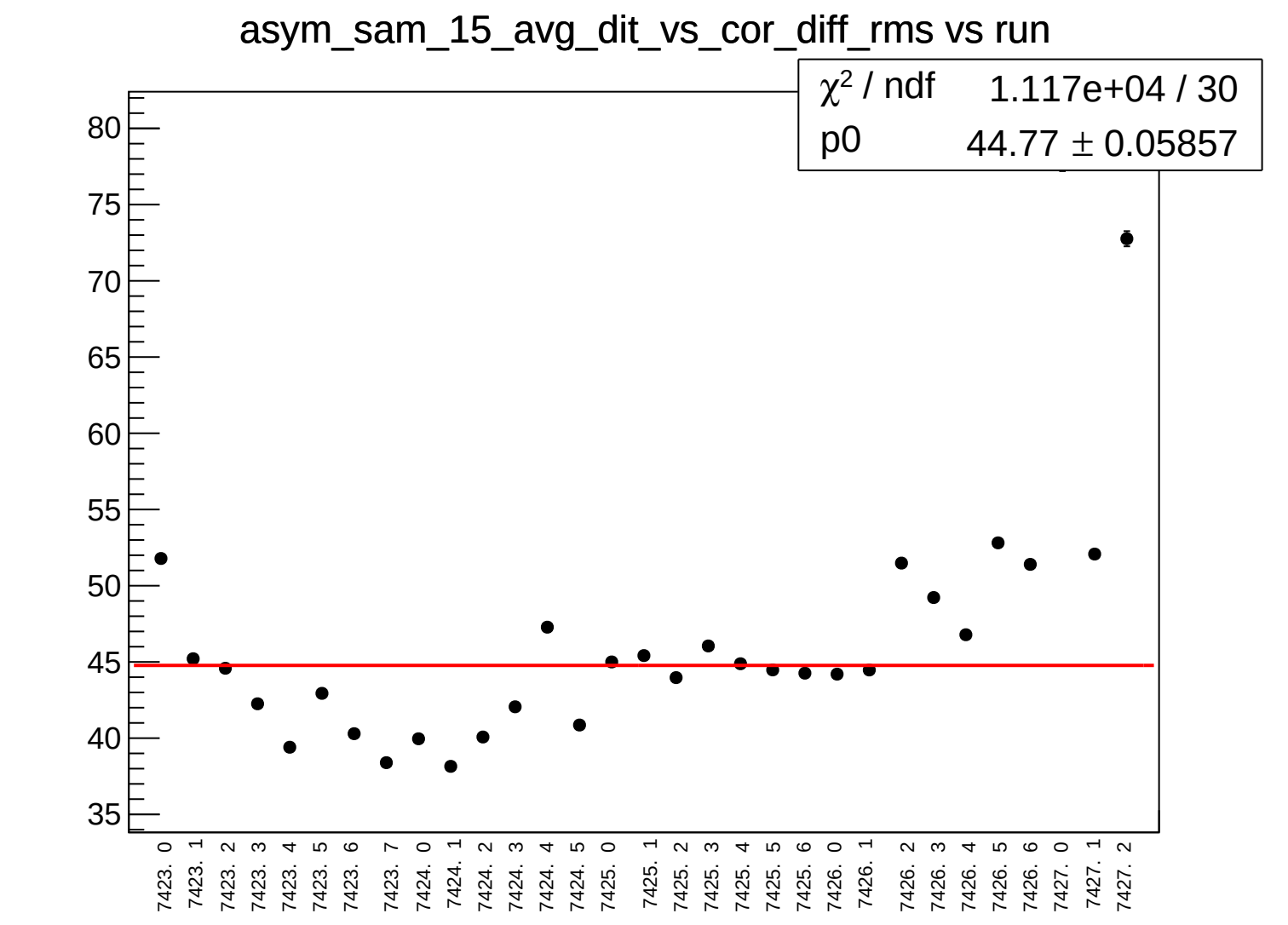

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.26 / 30
p0 −2.773e−14 ± 3.076e−14
pull
Entries 31
Mean 5.405
Std Dev 0

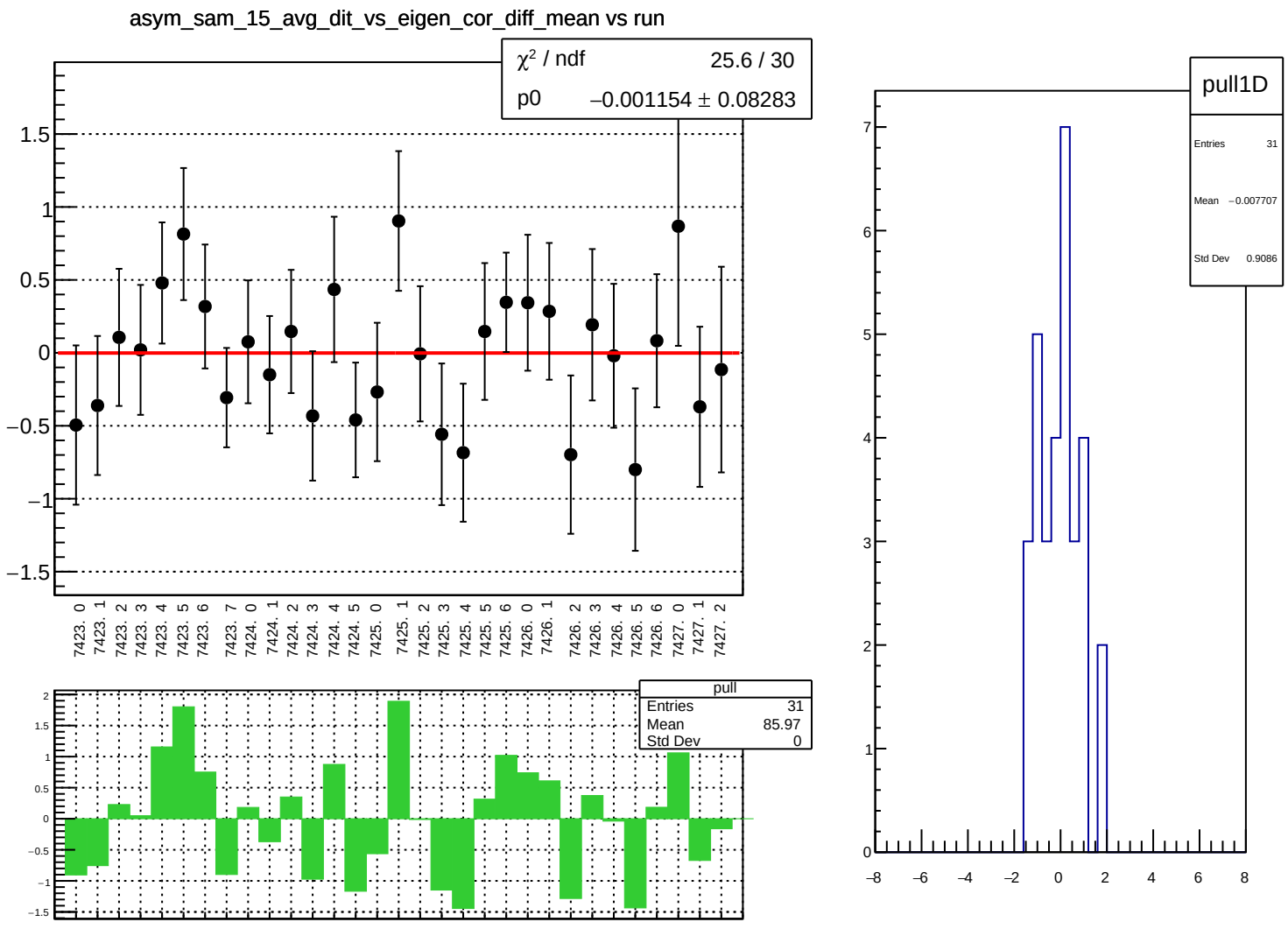

pull1D
Entries 31
Mean −0.2594
Std Dev 0.9011

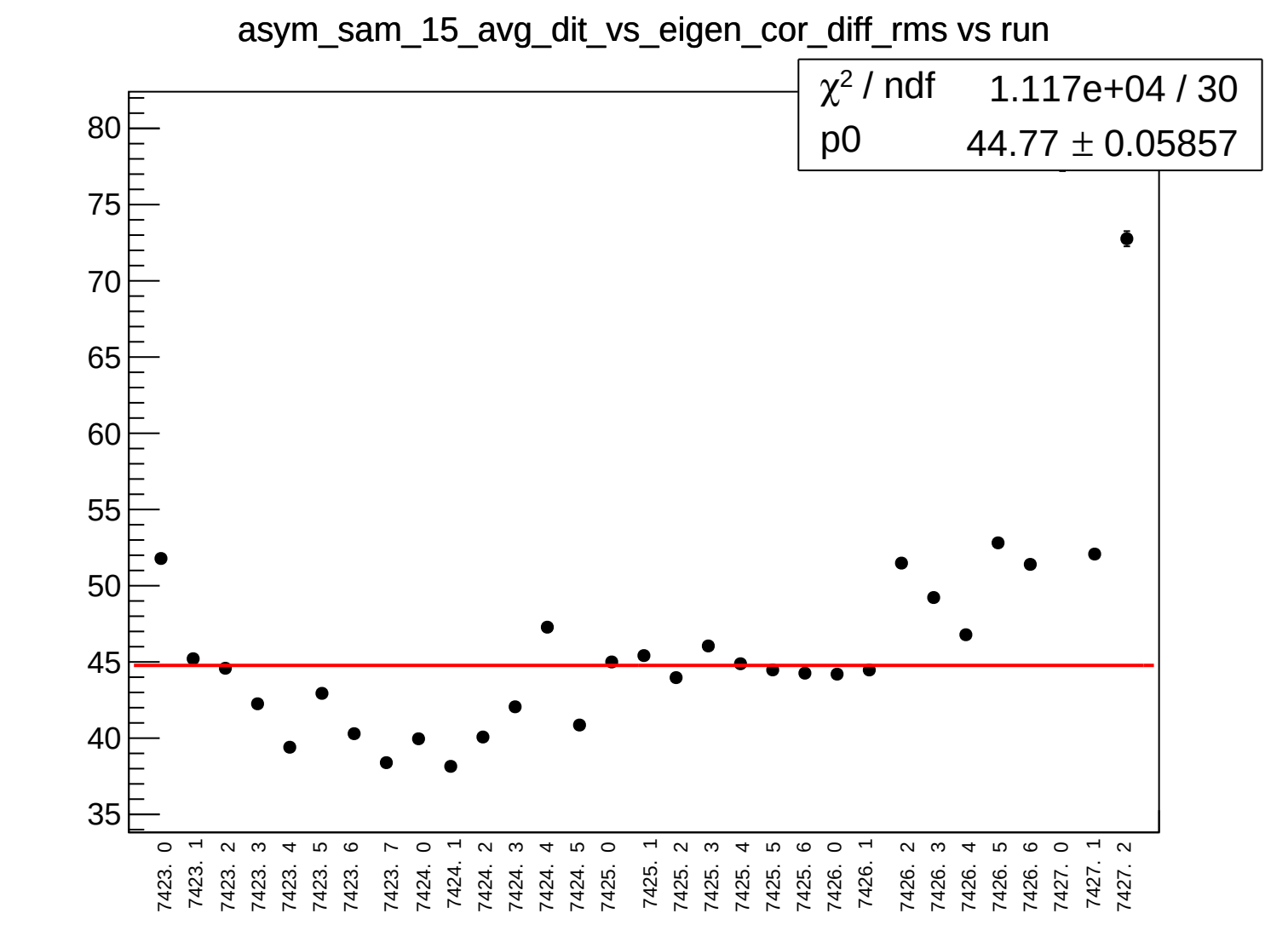

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.254e+05 / 30
p0 5.756e−12 ± 2.175e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

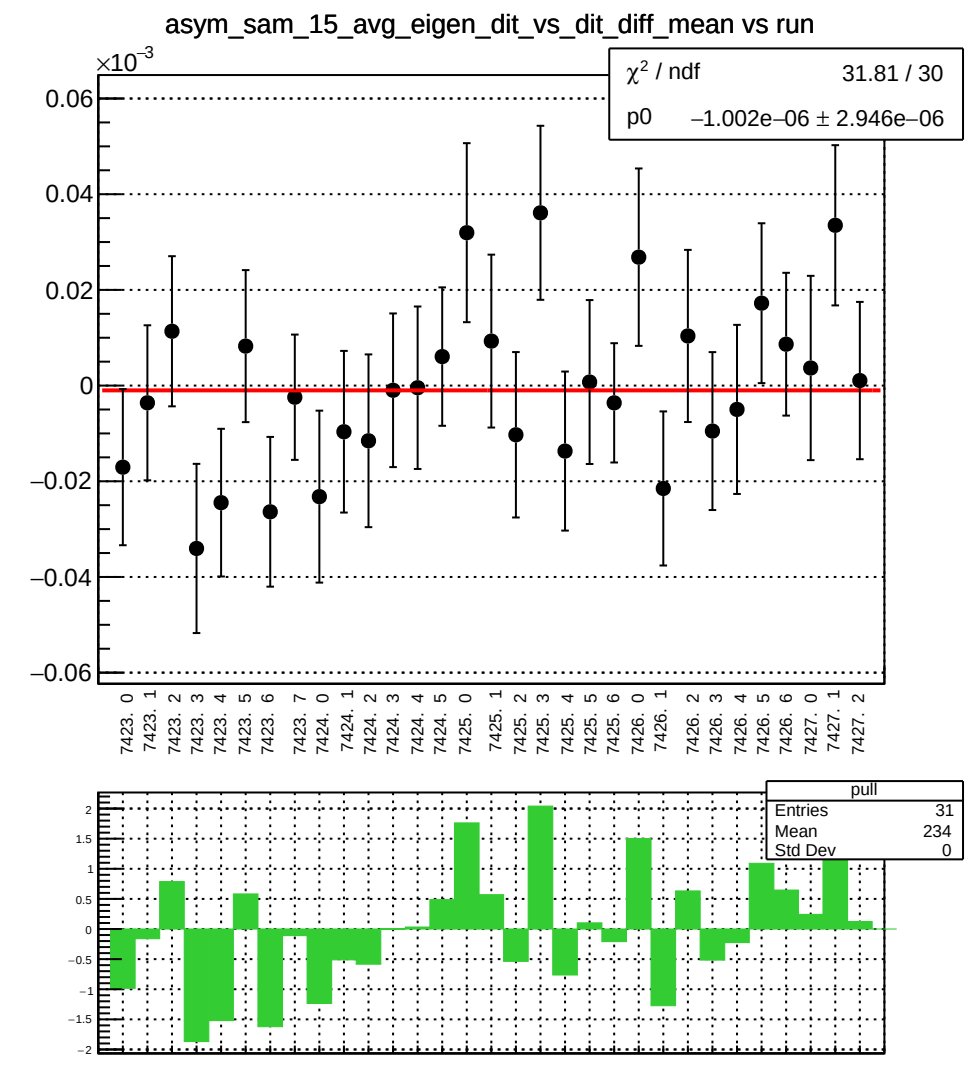

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 25.6 / 30
p0 −0.001154 ± 0.08283
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 85.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

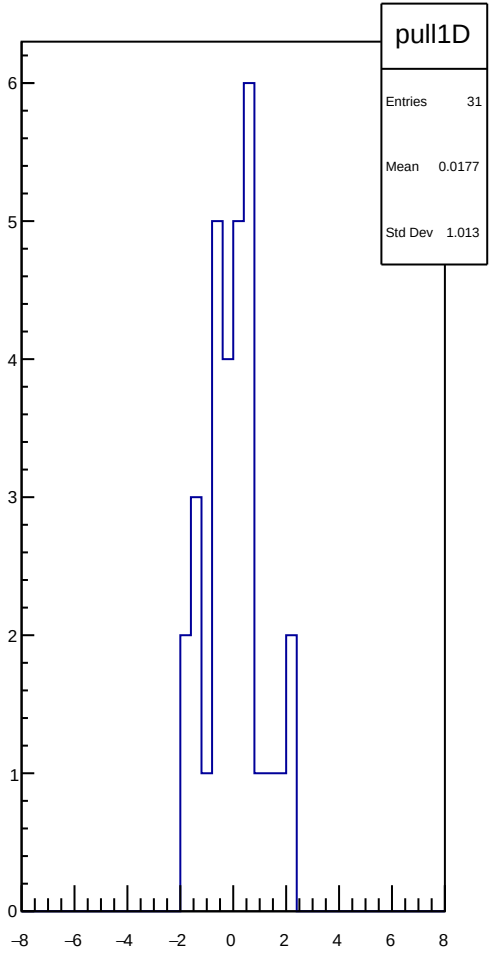

pull1D
Entries 31
Mean −0.007707
Std Dev 0.9086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

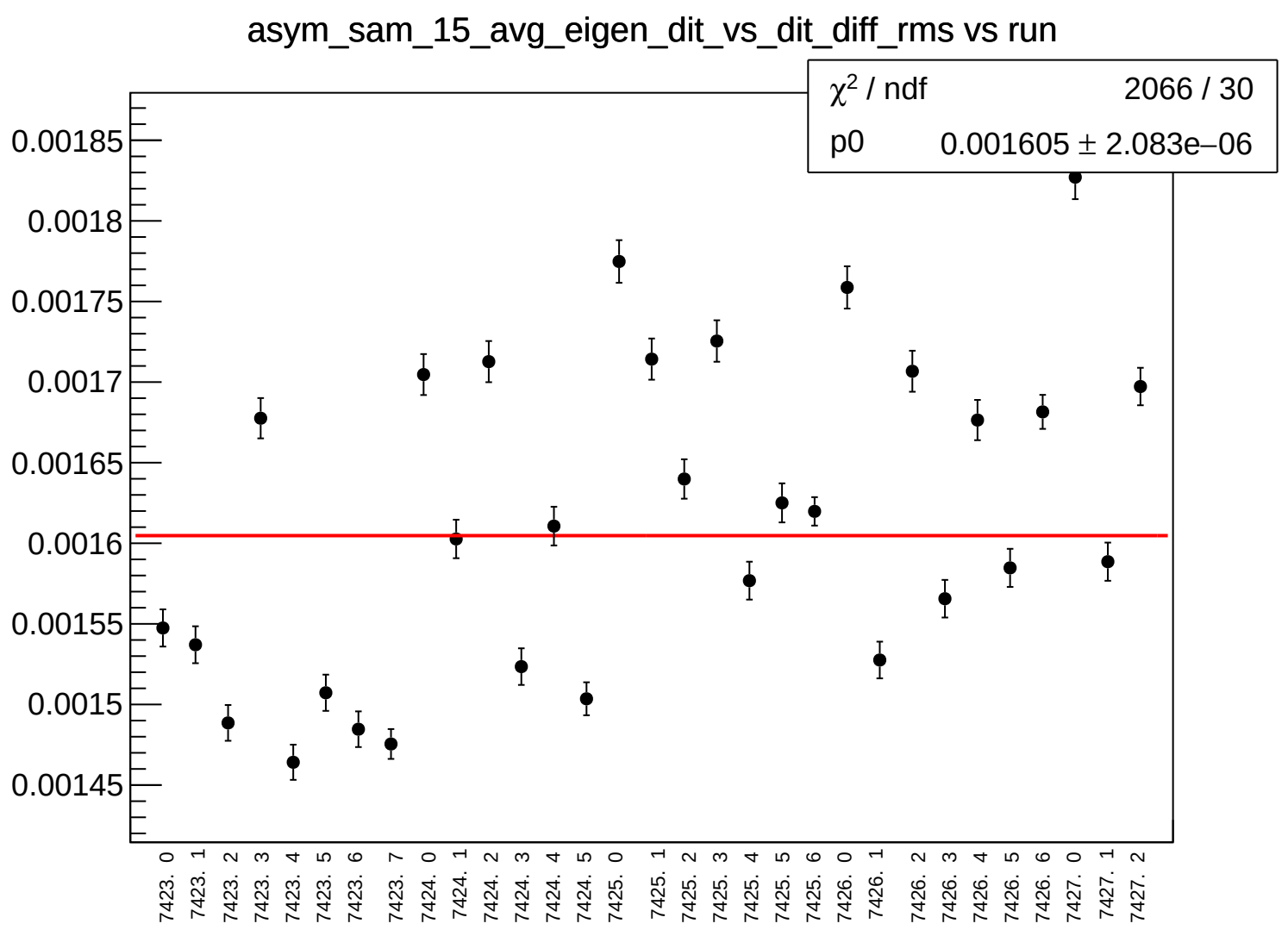

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.117e+04 / 30
p0 44.77 ± 0.05857
80
75
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

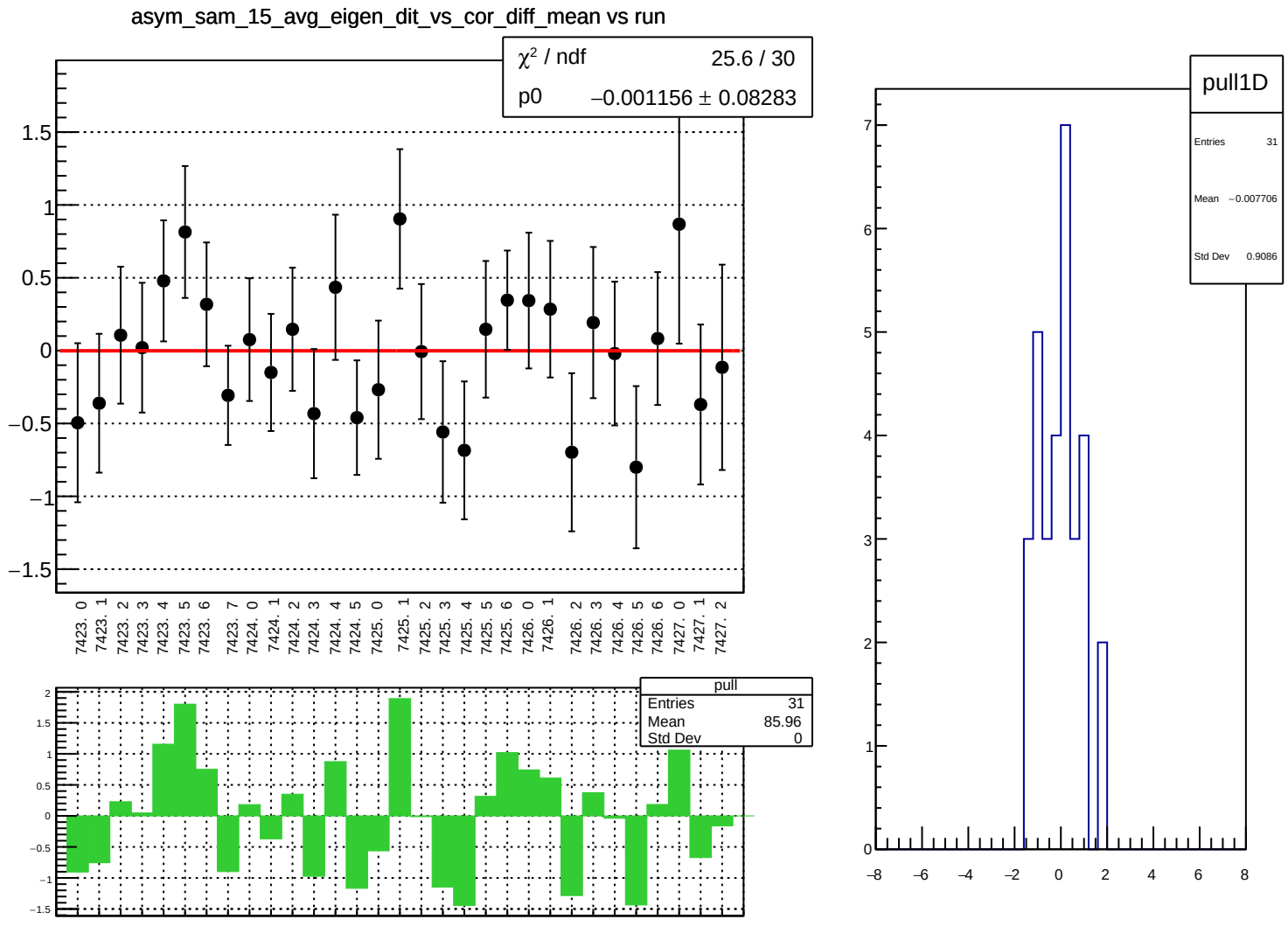

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.6 / 30
p0 −0.001154 ± 0.08283
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 85.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.007707
Std Dev 0.9086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

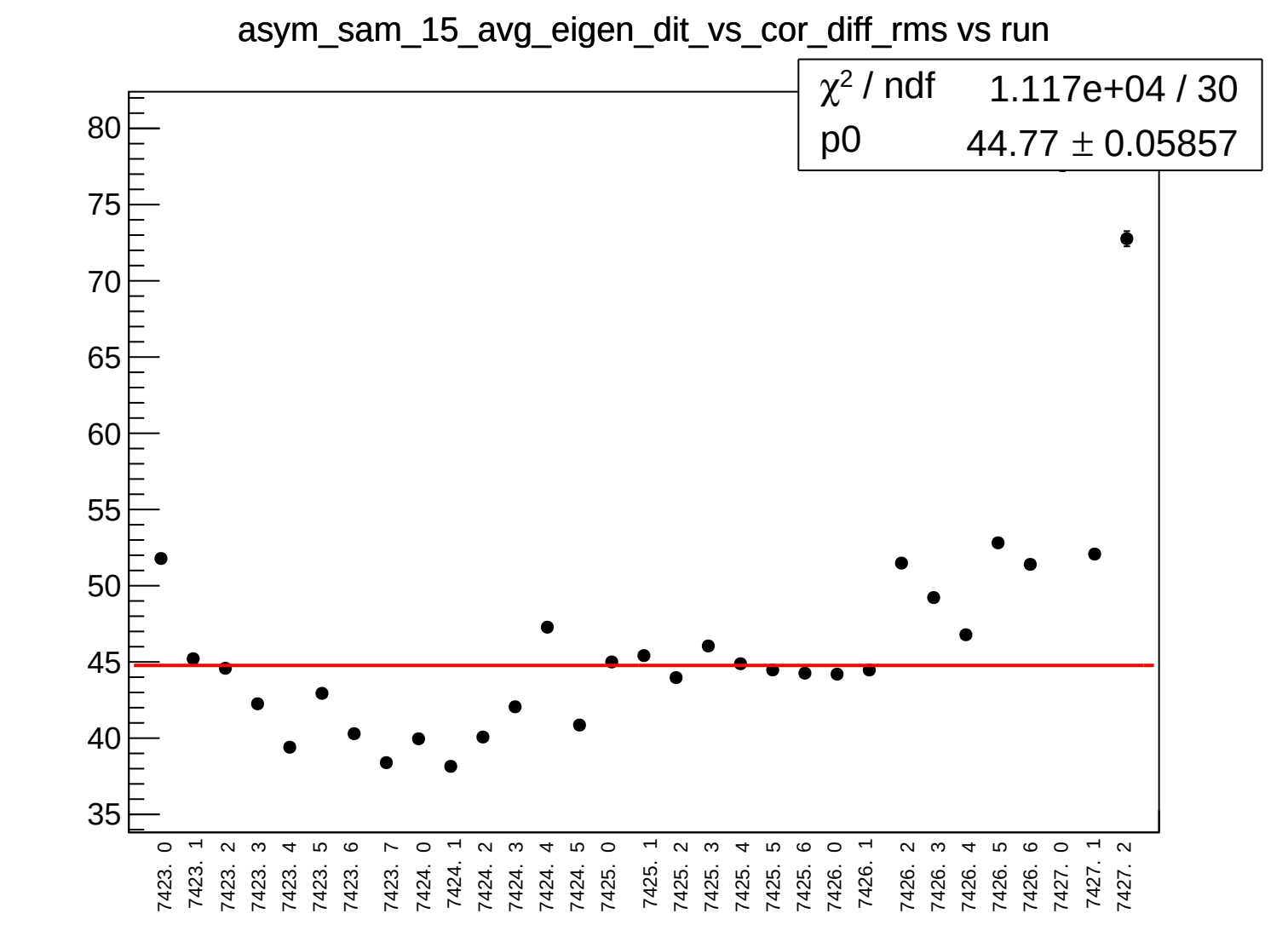

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.117e+04 / 30
p0 44.77 ± 0.05857
80
75
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

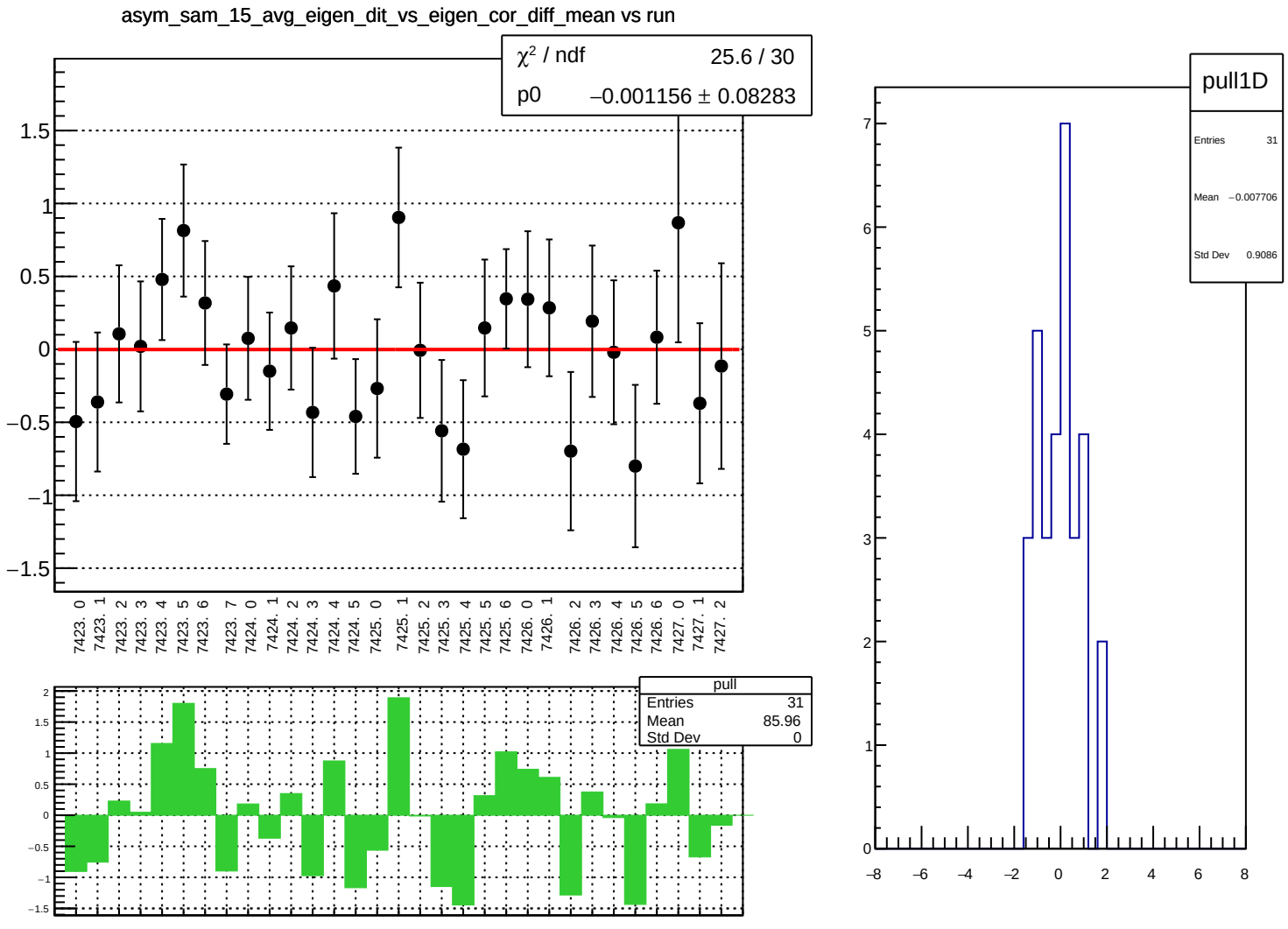

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.81 / 30
p0 −1.002e−06 ± 2.946e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 234
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

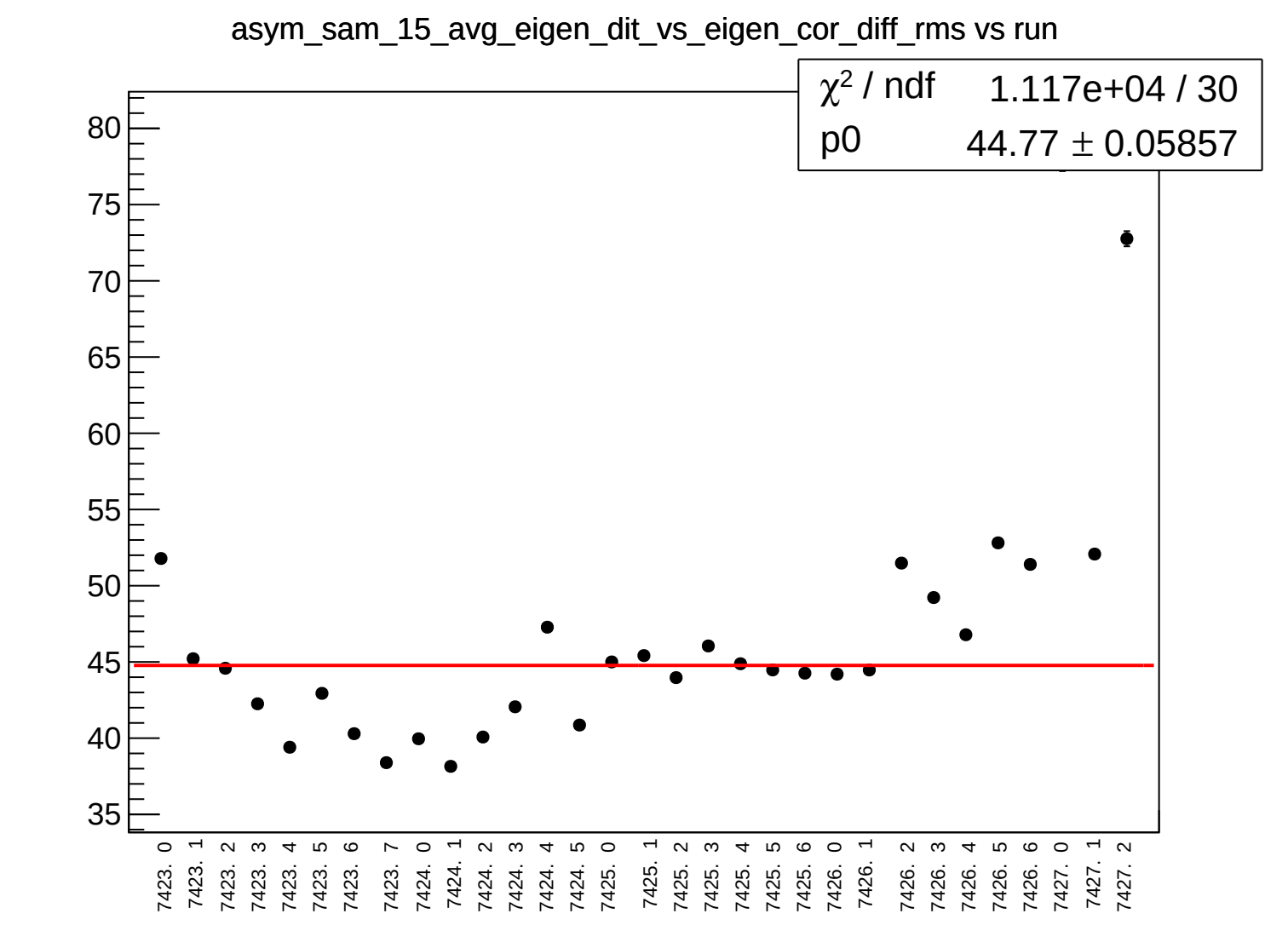

pull1D
Entries 31
Mean 0.0177
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

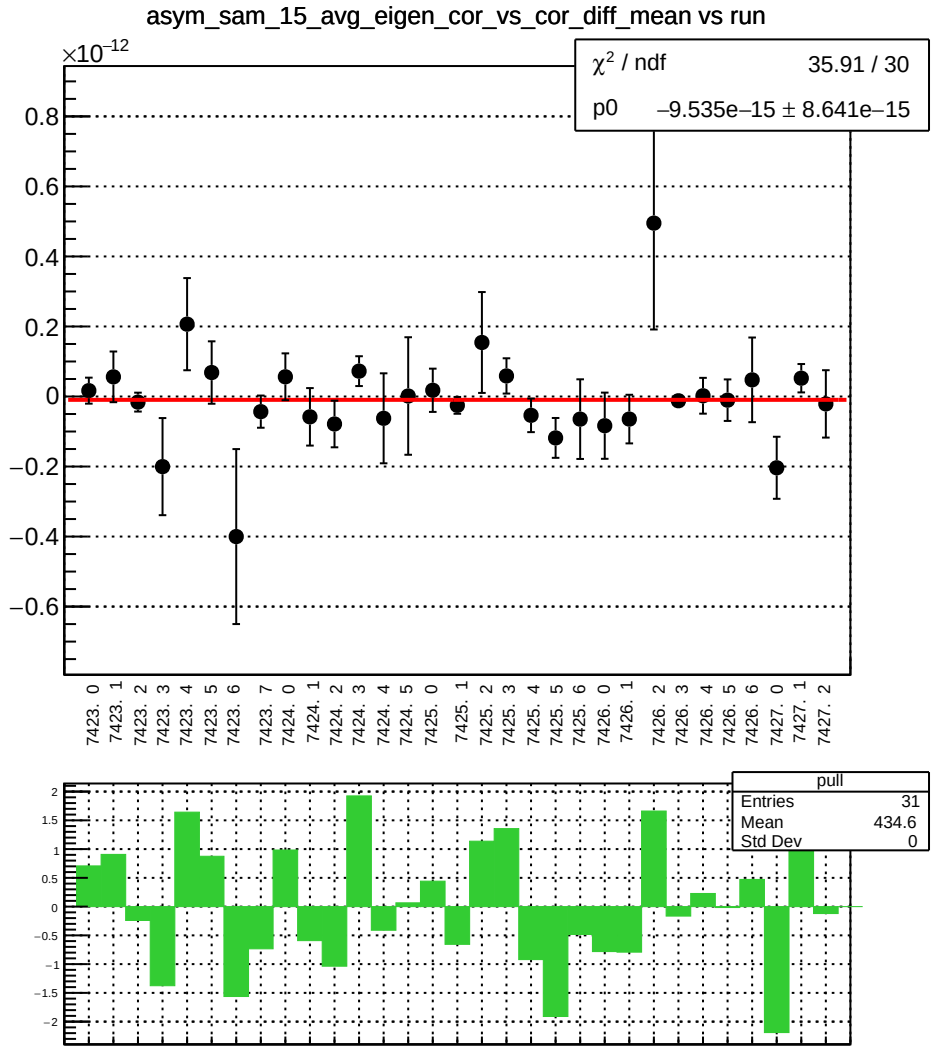

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2066 / 30
p0 0.001605 ± 2.083e−06
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

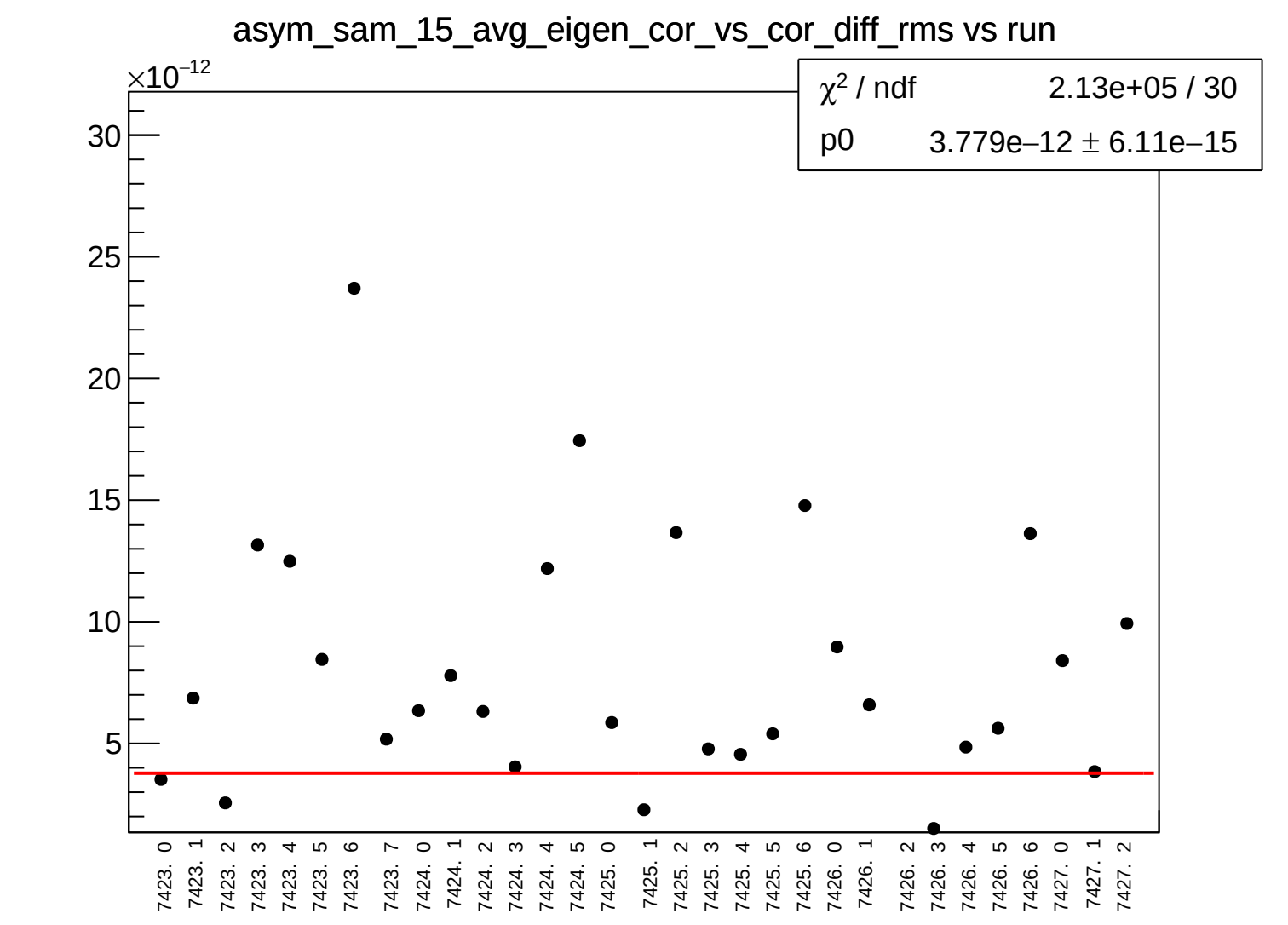

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.6 / 30
p0 −0.001156 ± 0.08283
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 85.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.007706
Std Dev 0.9086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

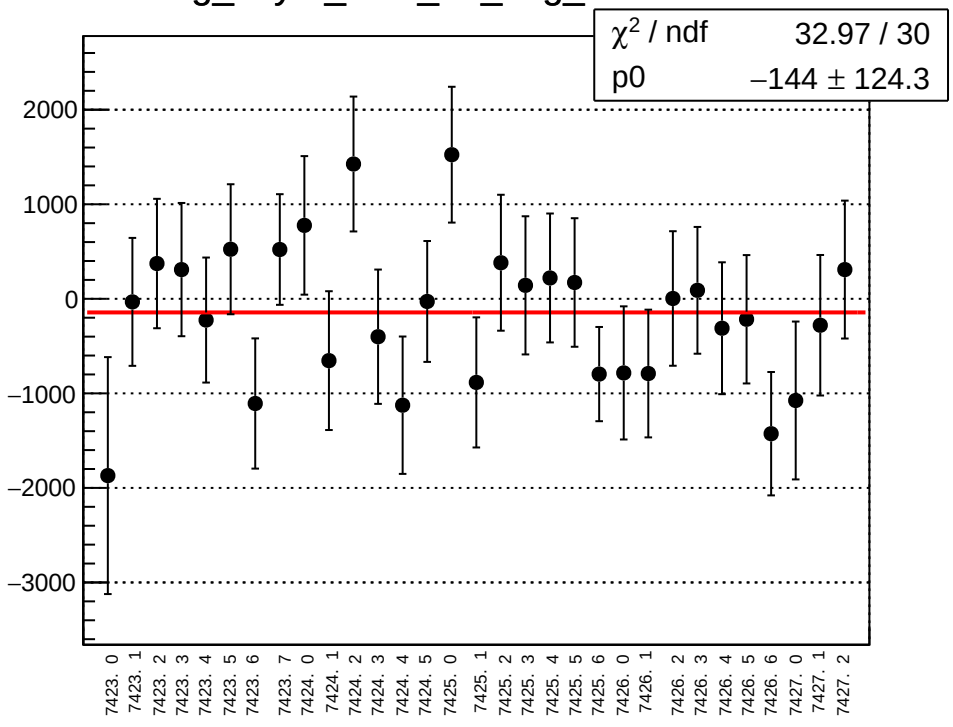

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.117e+04 / 30
p0 44.77 ± 0.05857
80
75
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

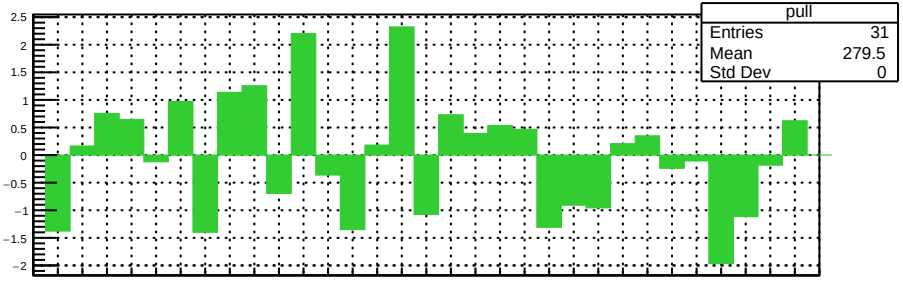

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.6 / 30
p0 −0.001156 ± 0.08283
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 85.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.007706
Std Dev 0.9086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

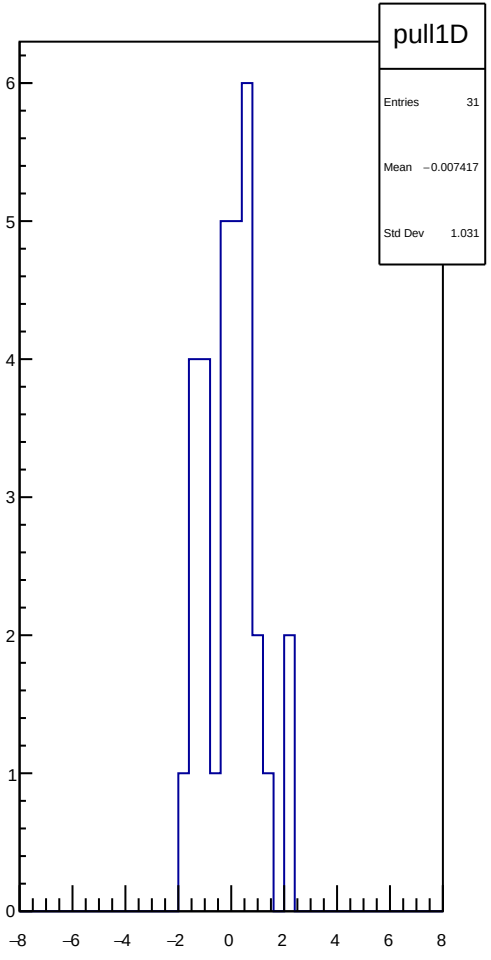

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.117e+04 / 30
p0 44.77 ± 0.05857
80
75
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

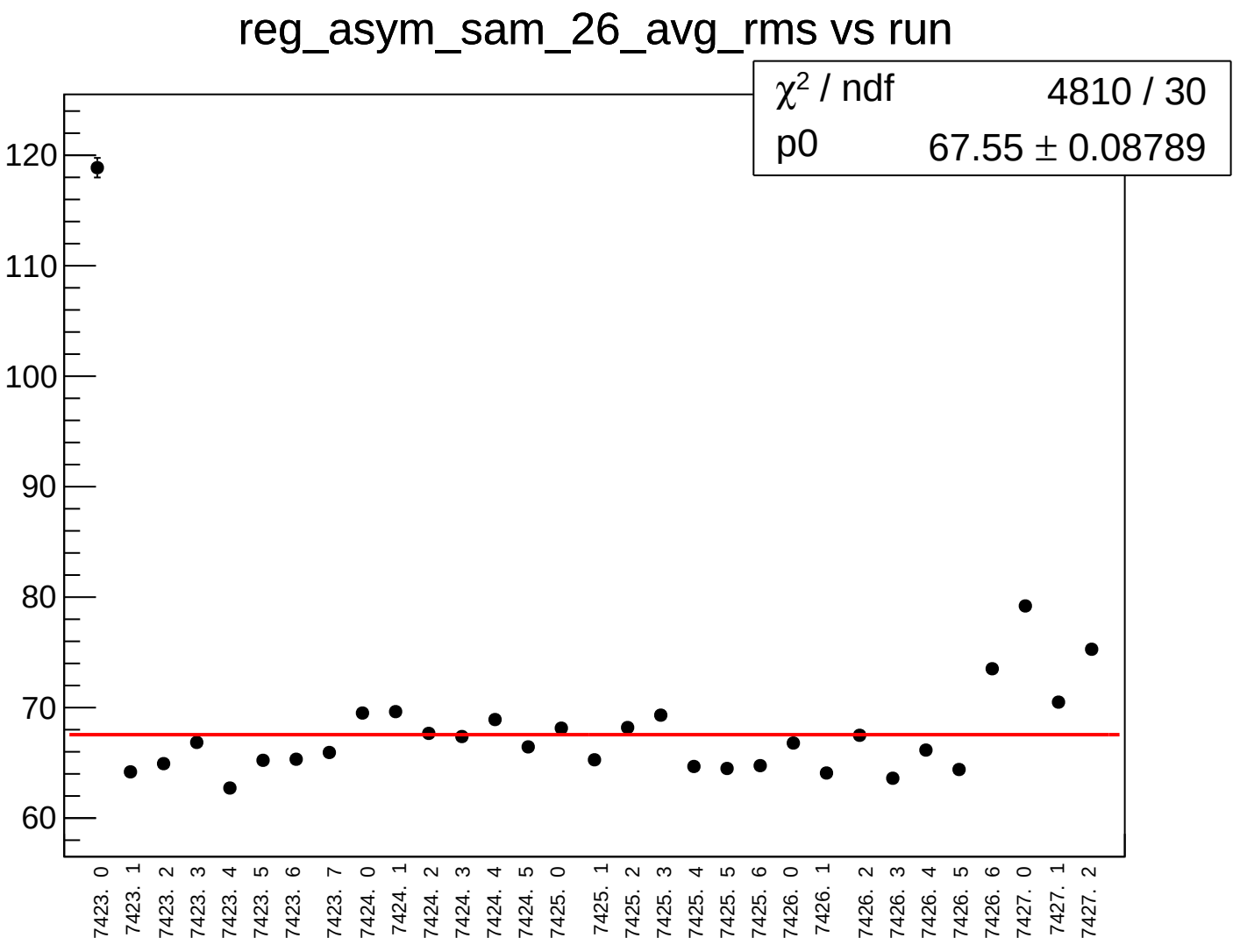

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.91 / 30
p0 −9.535e−15 ± 8.641e−15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 434.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.001872
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

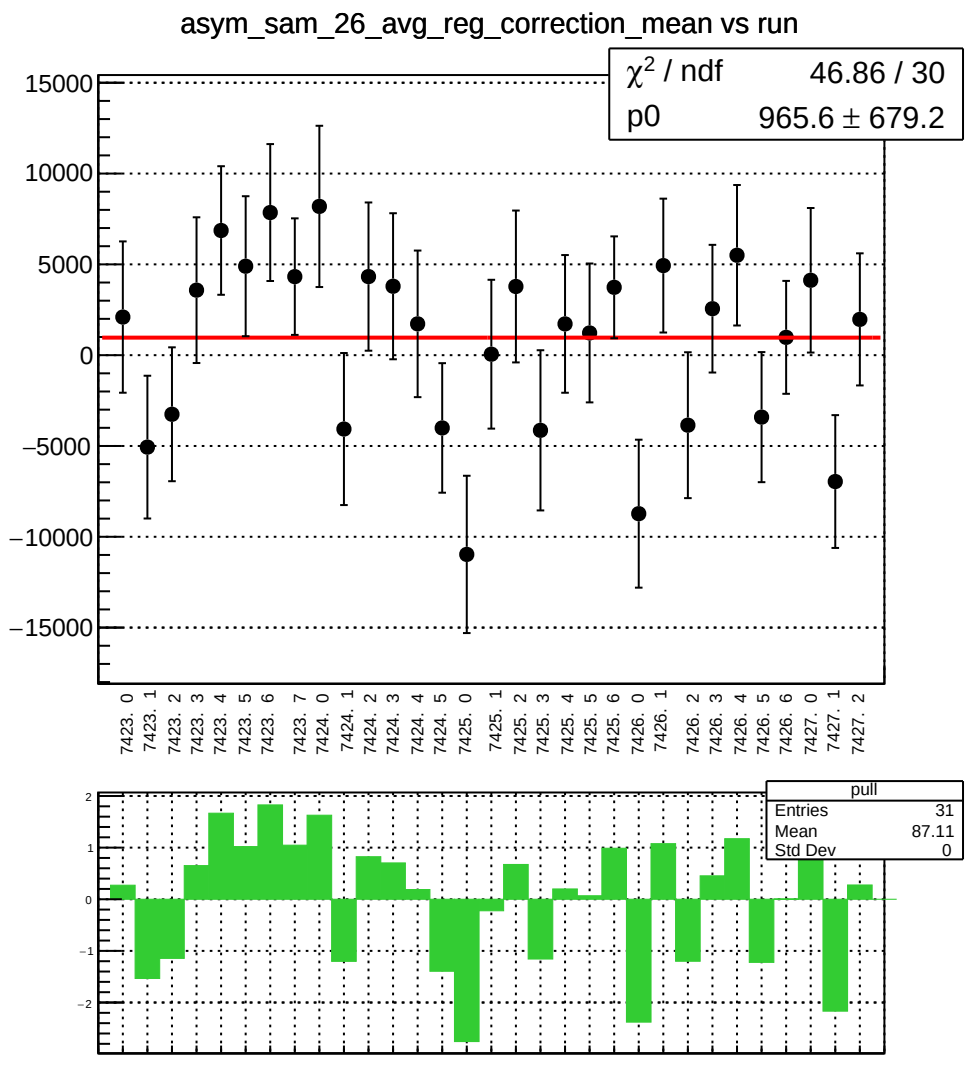

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.13e+05 / 30
p0 3.779e−12 ± 6.11e−15
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

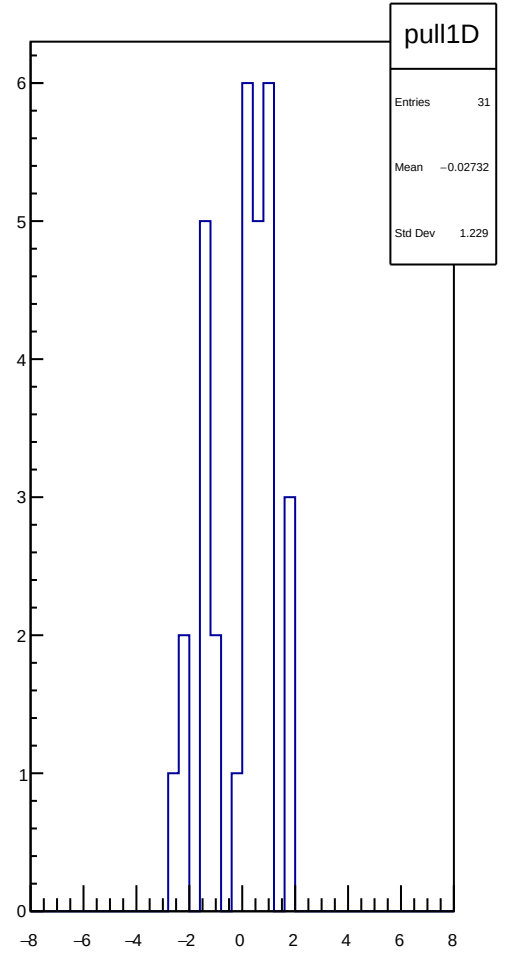

reg_asym_sam_26_avg_mean vs run
χ² / ndf 32.97 / 30
p0 −144 ± 124.3
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

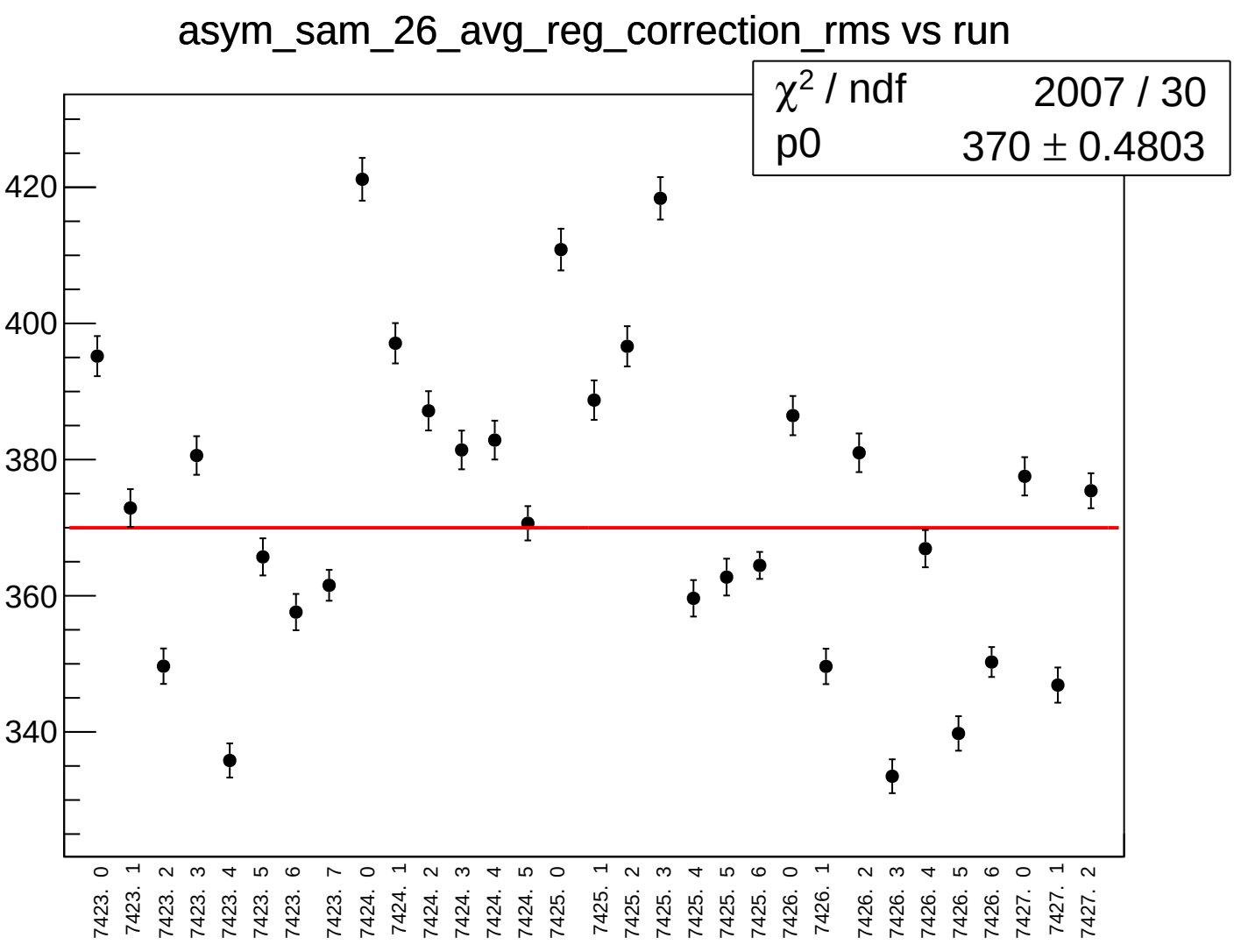

pull
Entries 31
Mean 279.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

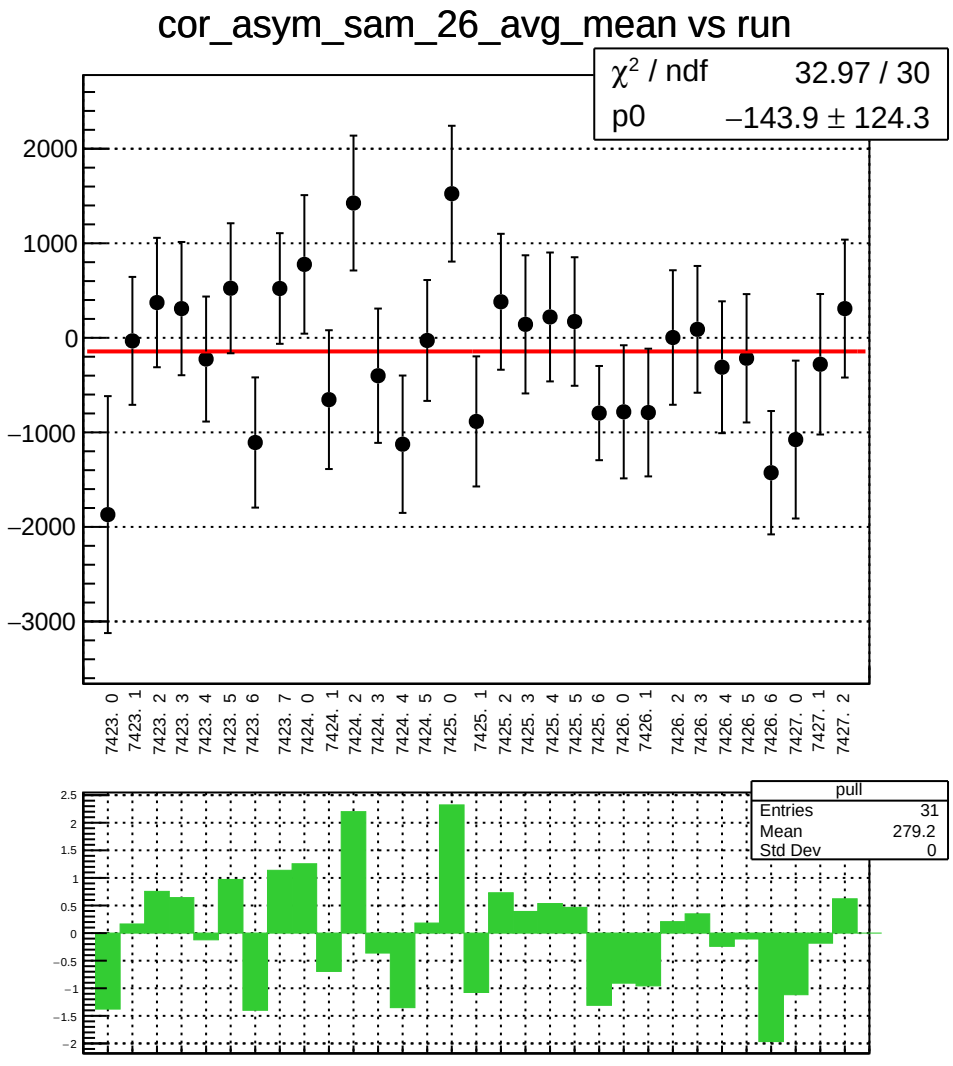

pull1D
Entries 31
Mean −0.007417
Std Dev 1.031
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

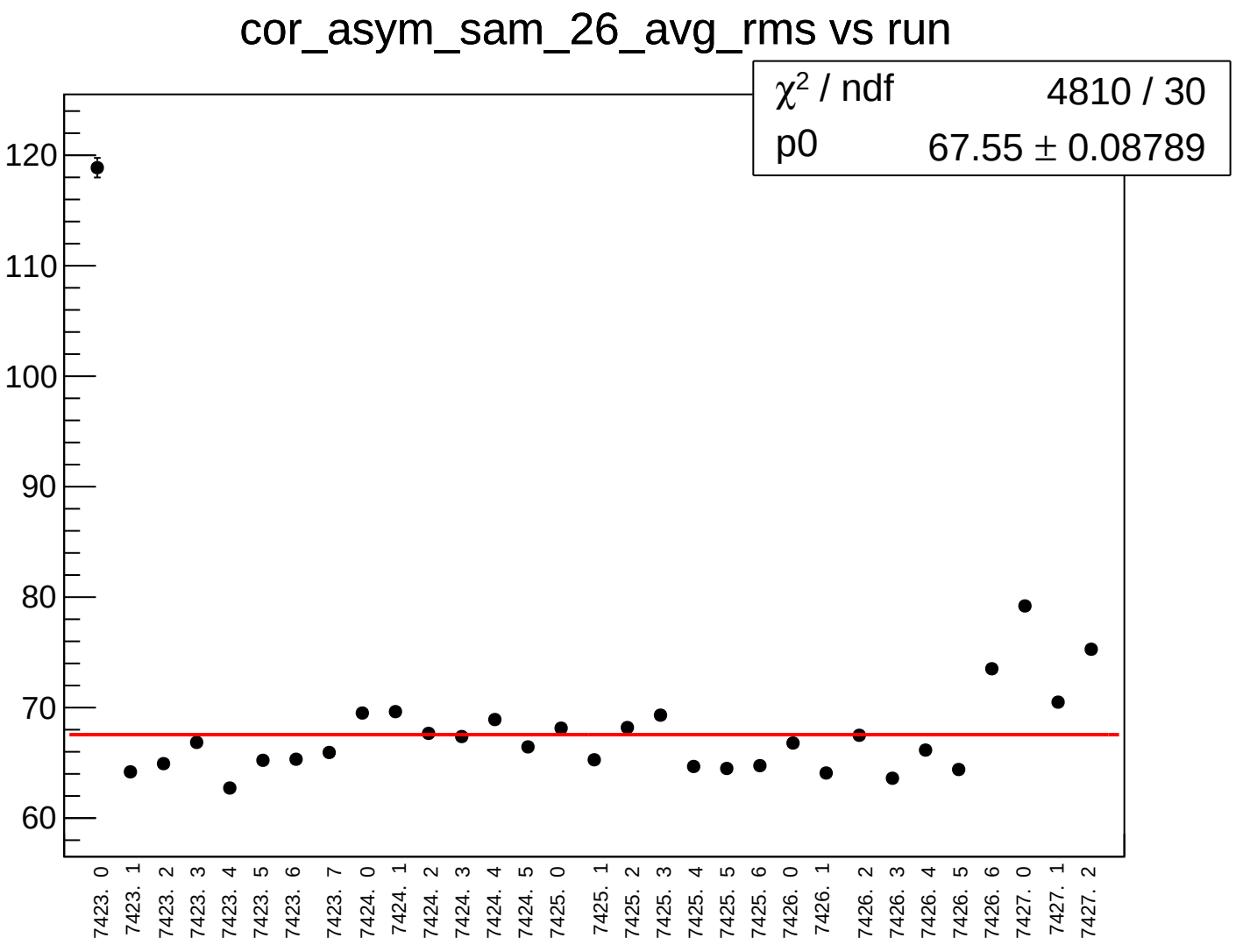

reg_asym_sam_26_avg_rms vs run
χ² / ndf 4810 / 30
p0 67.55 ± 0.08789
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

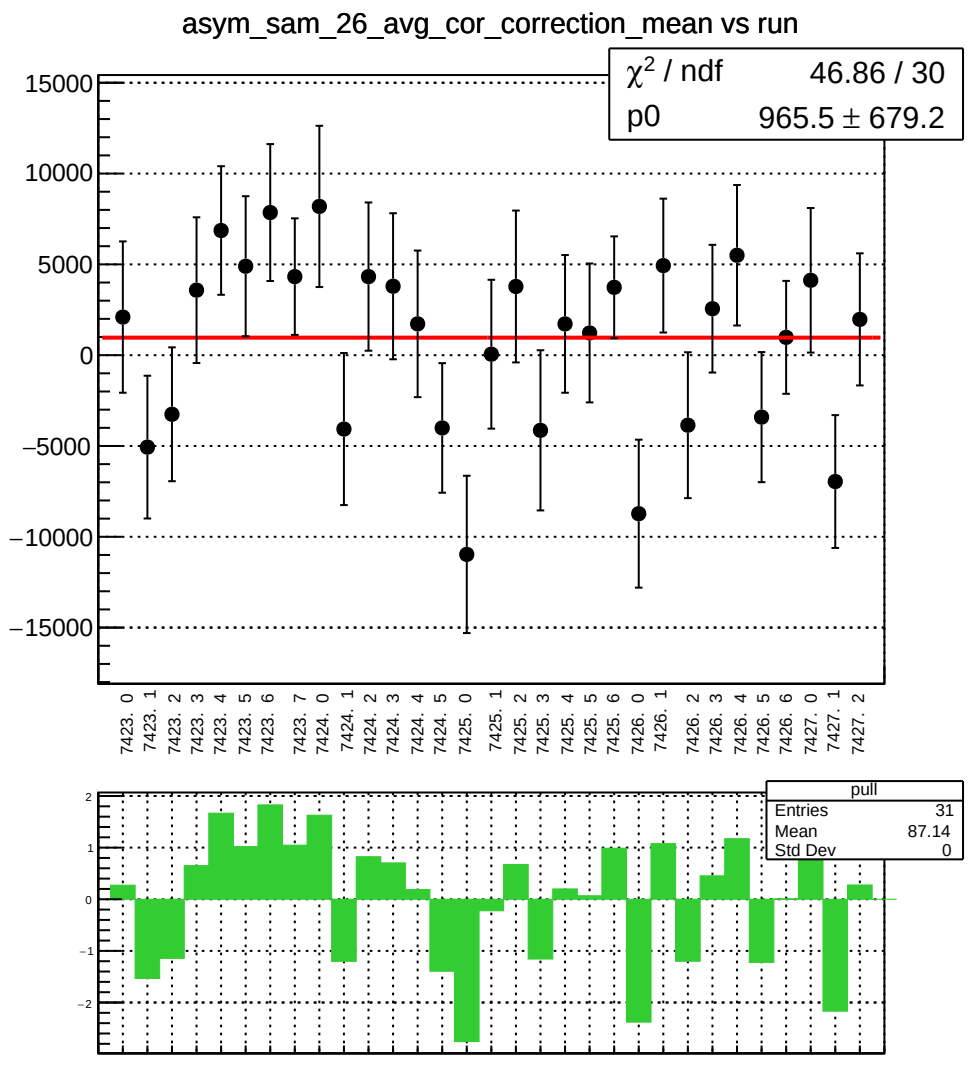

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 46.86 / 30
p0 965.6 ± 679.2
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 87.11
Std Dev 0
2
1
0
−1
−2

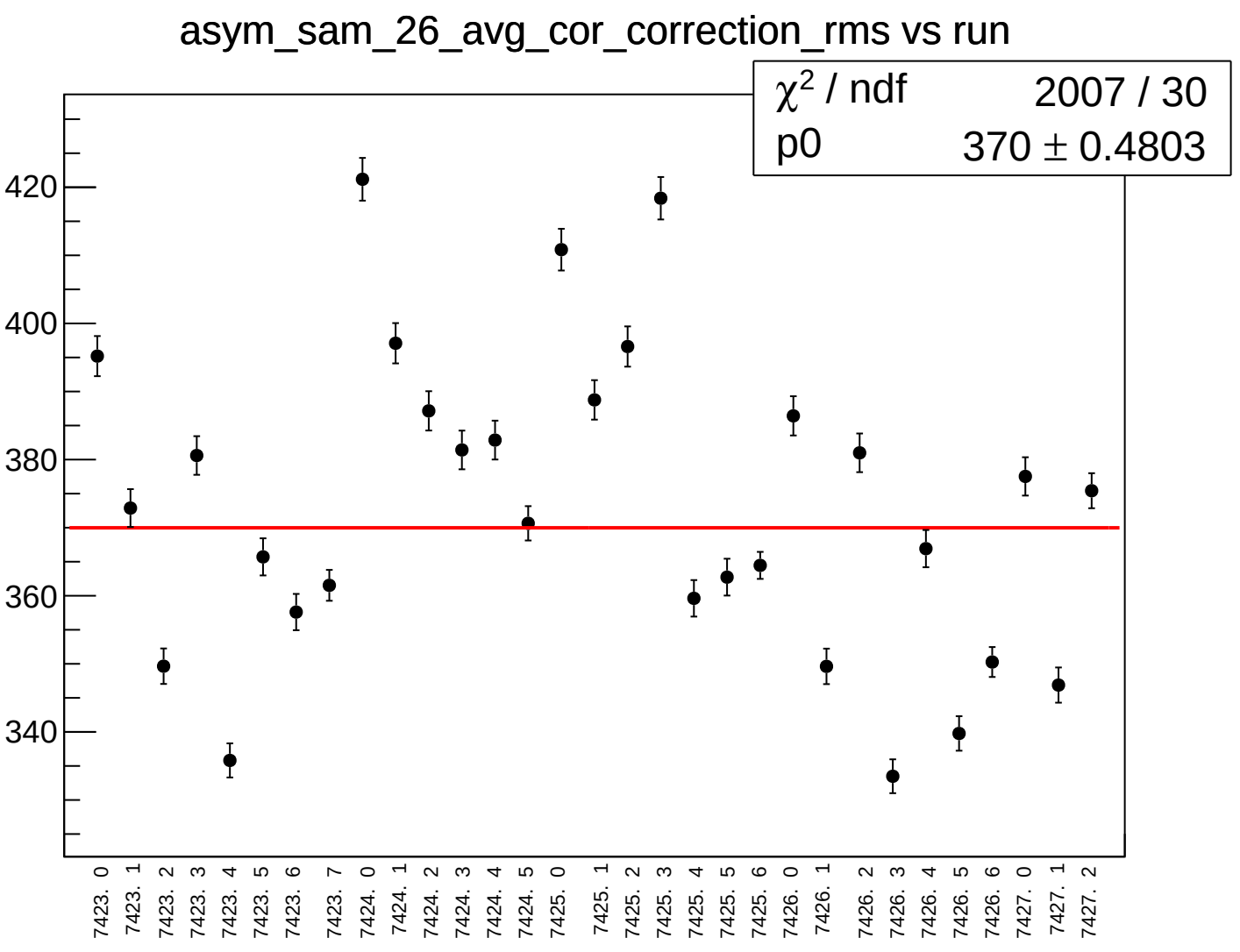

pull1D
Entries 31
Mean −0.02732
Std Dev 1.229
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

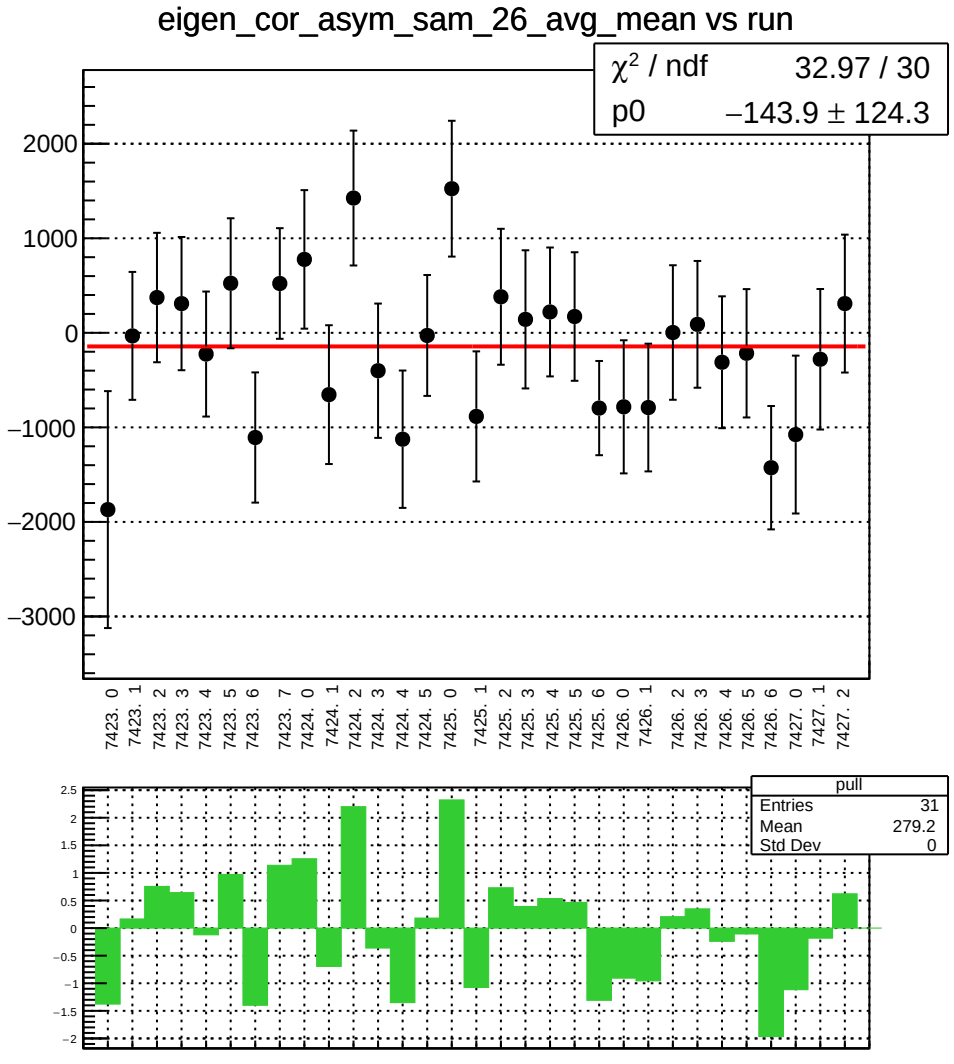

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 2007 / 30
p0 370 ± 0.4803
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

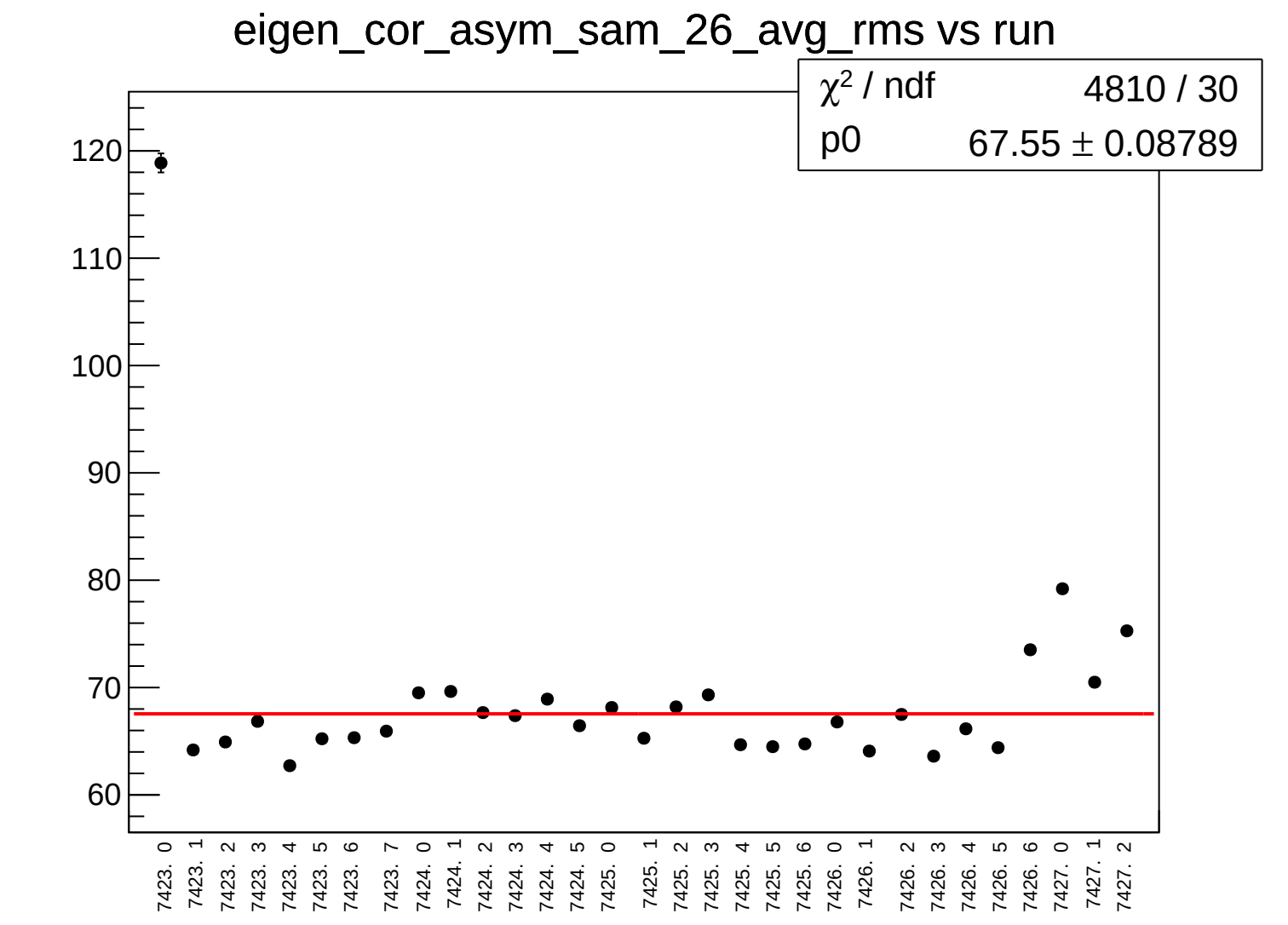

cor_asym_sam_26_avg_mean vs run
χ² / ndf 32.97 / 30
p0 −143.9 ± 124.3
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 279.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.007427
Std Dev 1.031
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

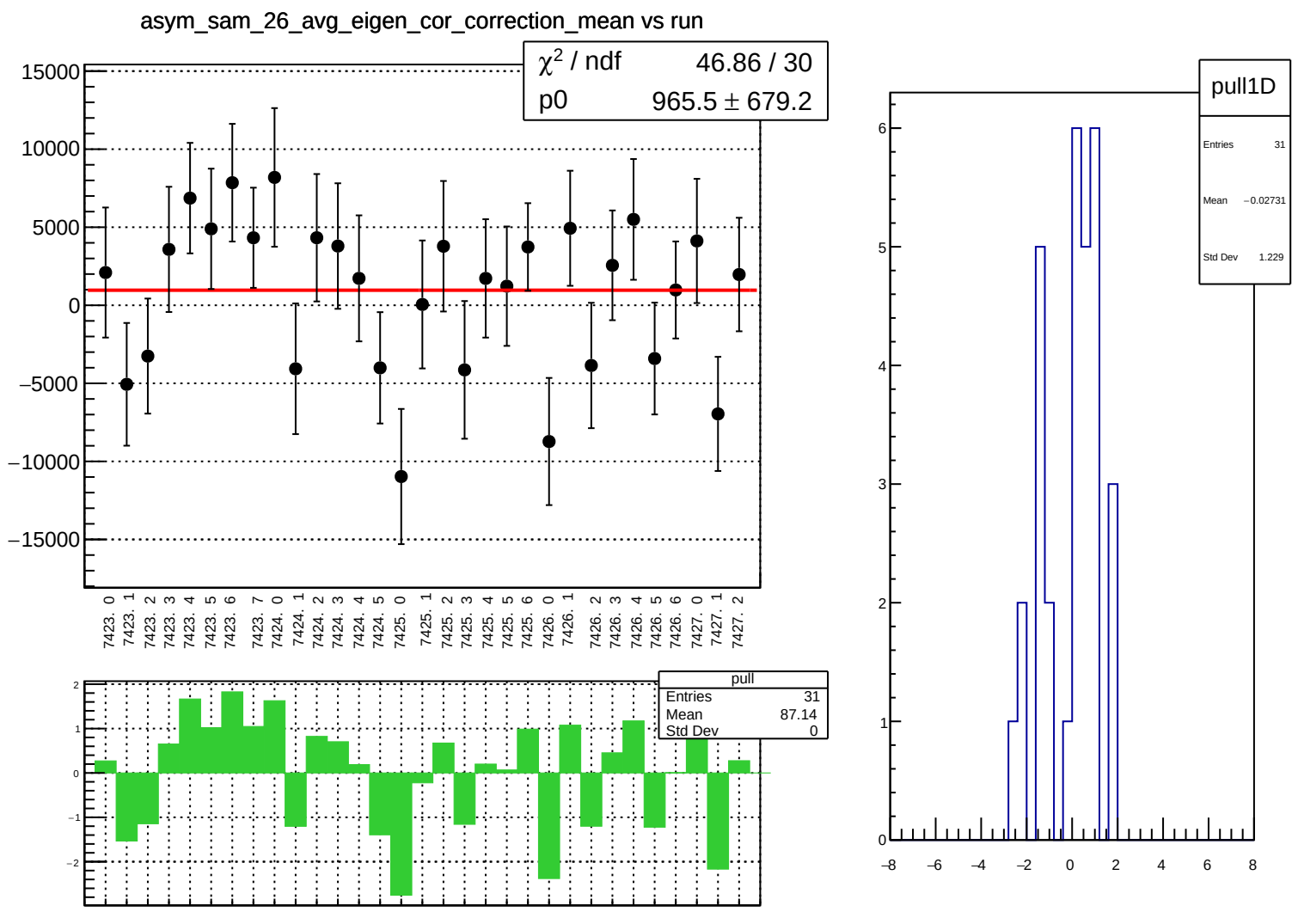

cor_asym_sam_26_avg_rms vs run
χ² / ndf 4810 / 30
p0 67.55 ± 0.08789
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

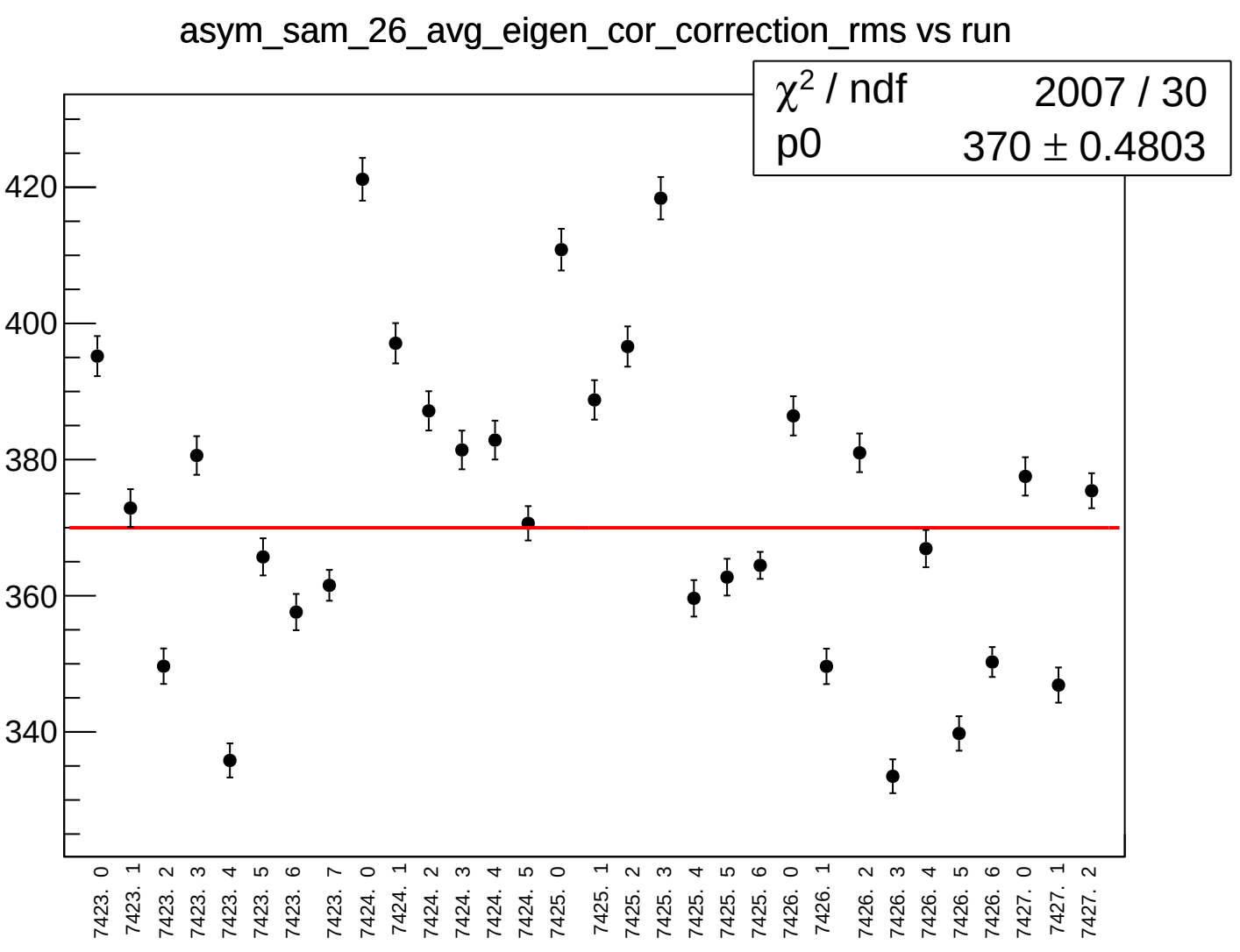

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 46.86 / 30
p0 965.5 ± 679.2
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 87.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.02731
Std Dev 1.229
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

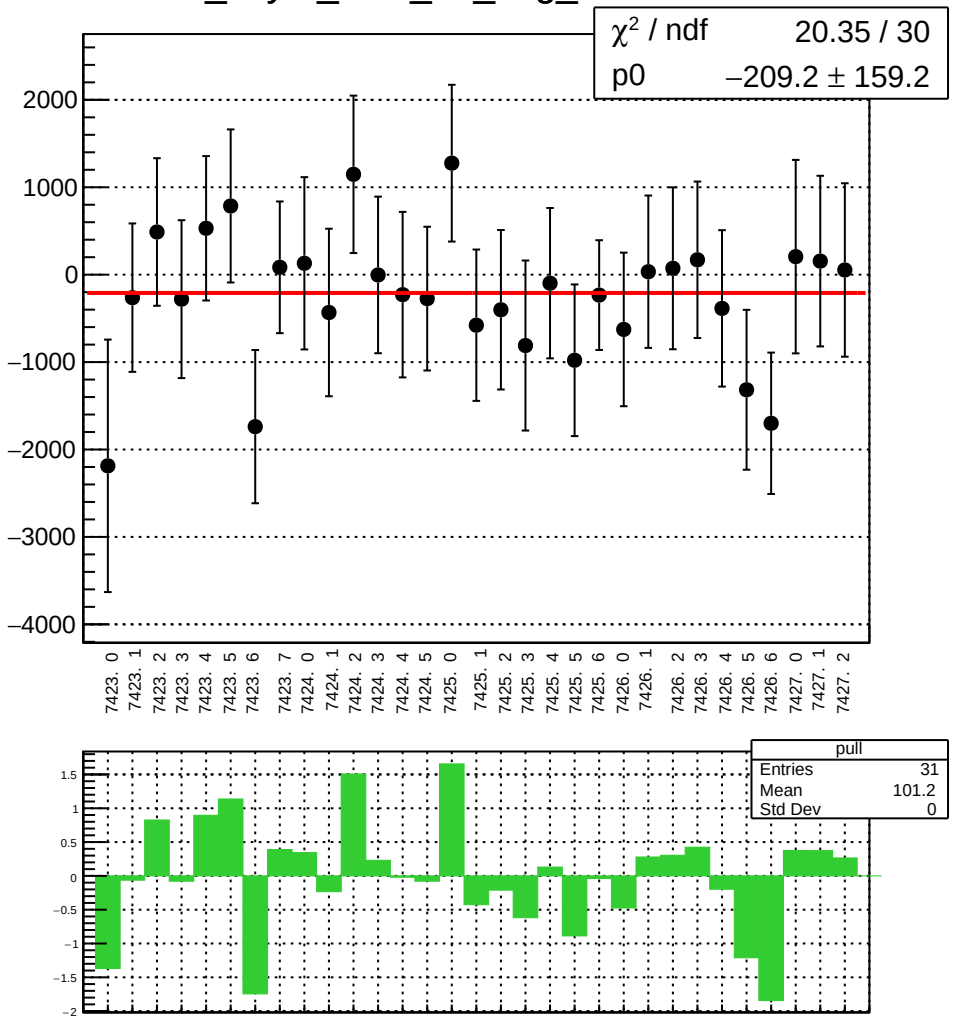

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 2007 / 30
p0 370 ± 0.4803
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

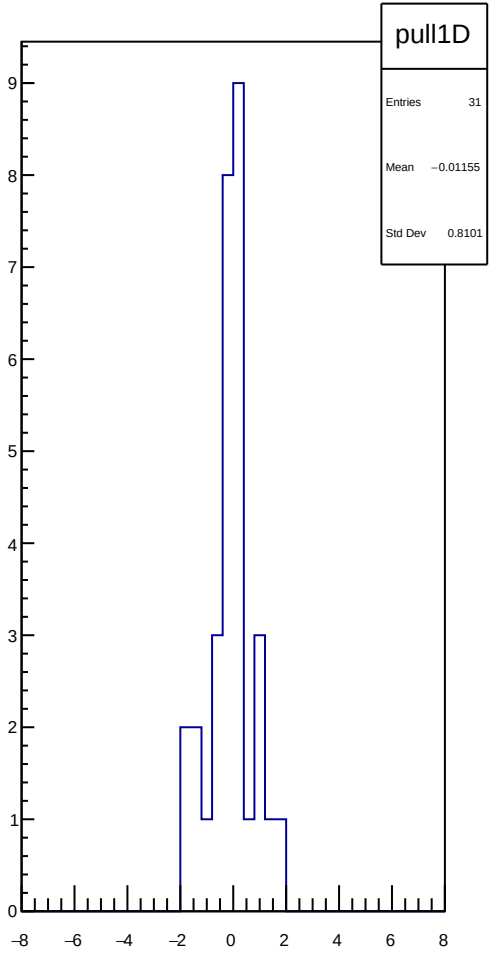

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 32.97 / 30
p0 −143.9 ± 124.3
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 279.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.007427
Std Dev 1.031
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

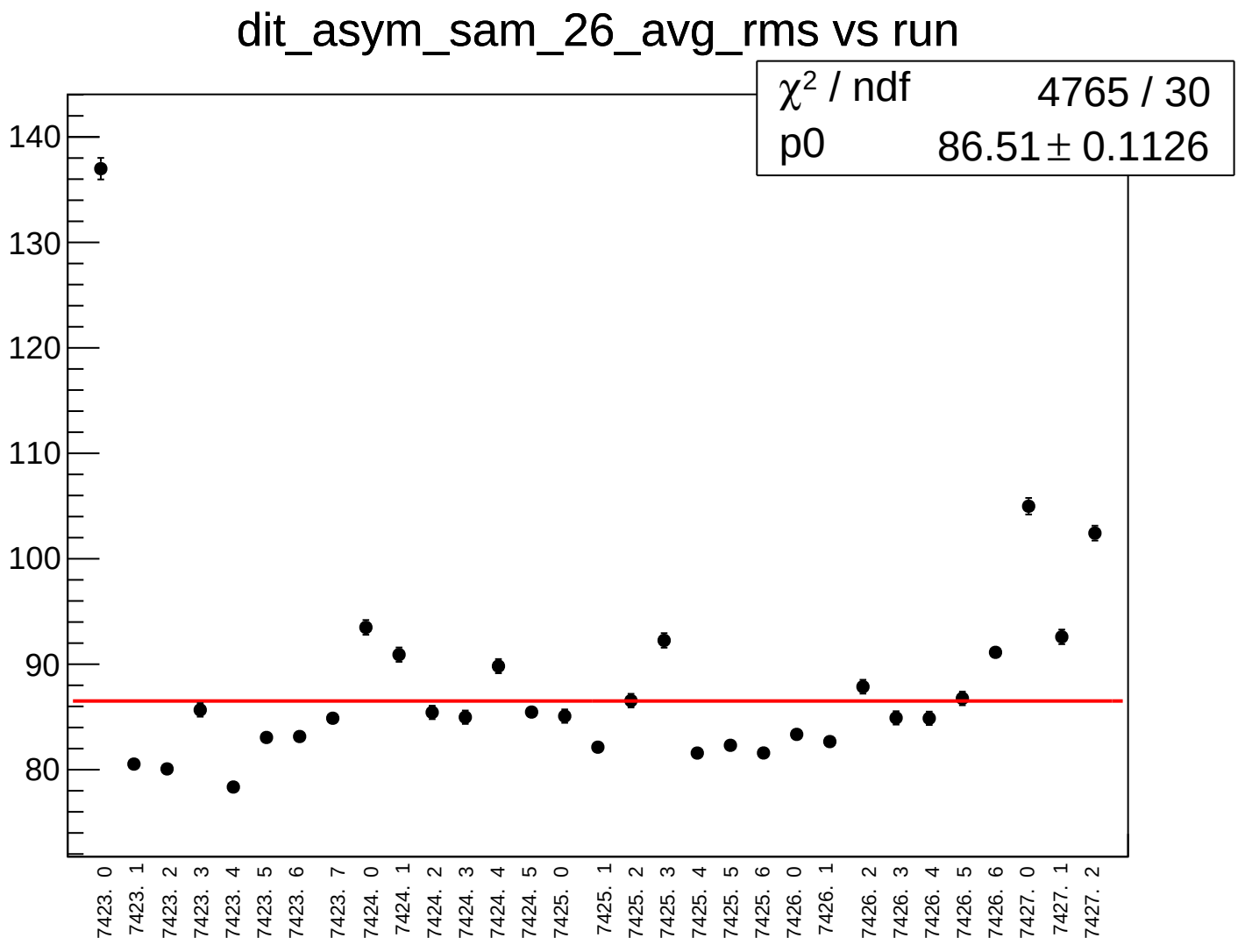

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 4810 / 30
p0 67.55 ± 0.08789
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

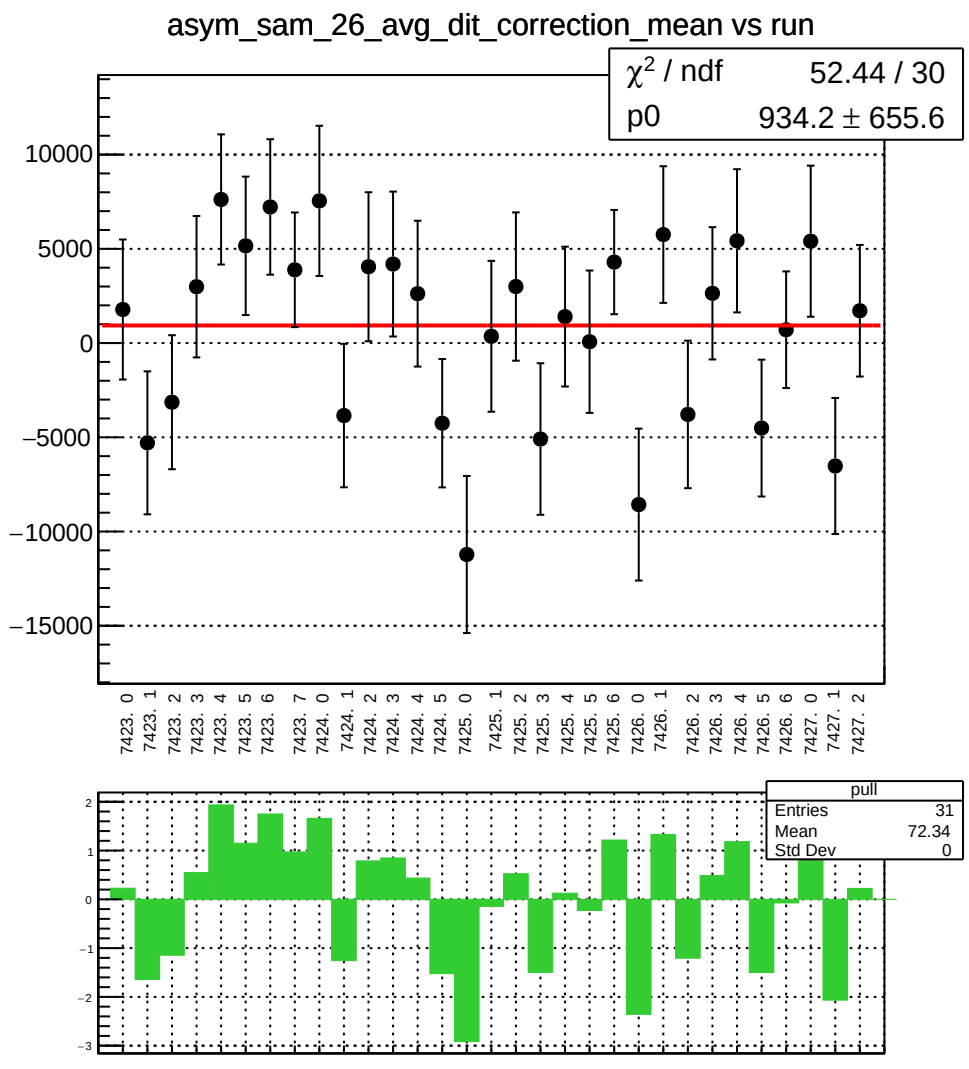

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 46.86 / 30
p0 965.5 ± 679.2
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 87.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.02731
Std Dev 1.229
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

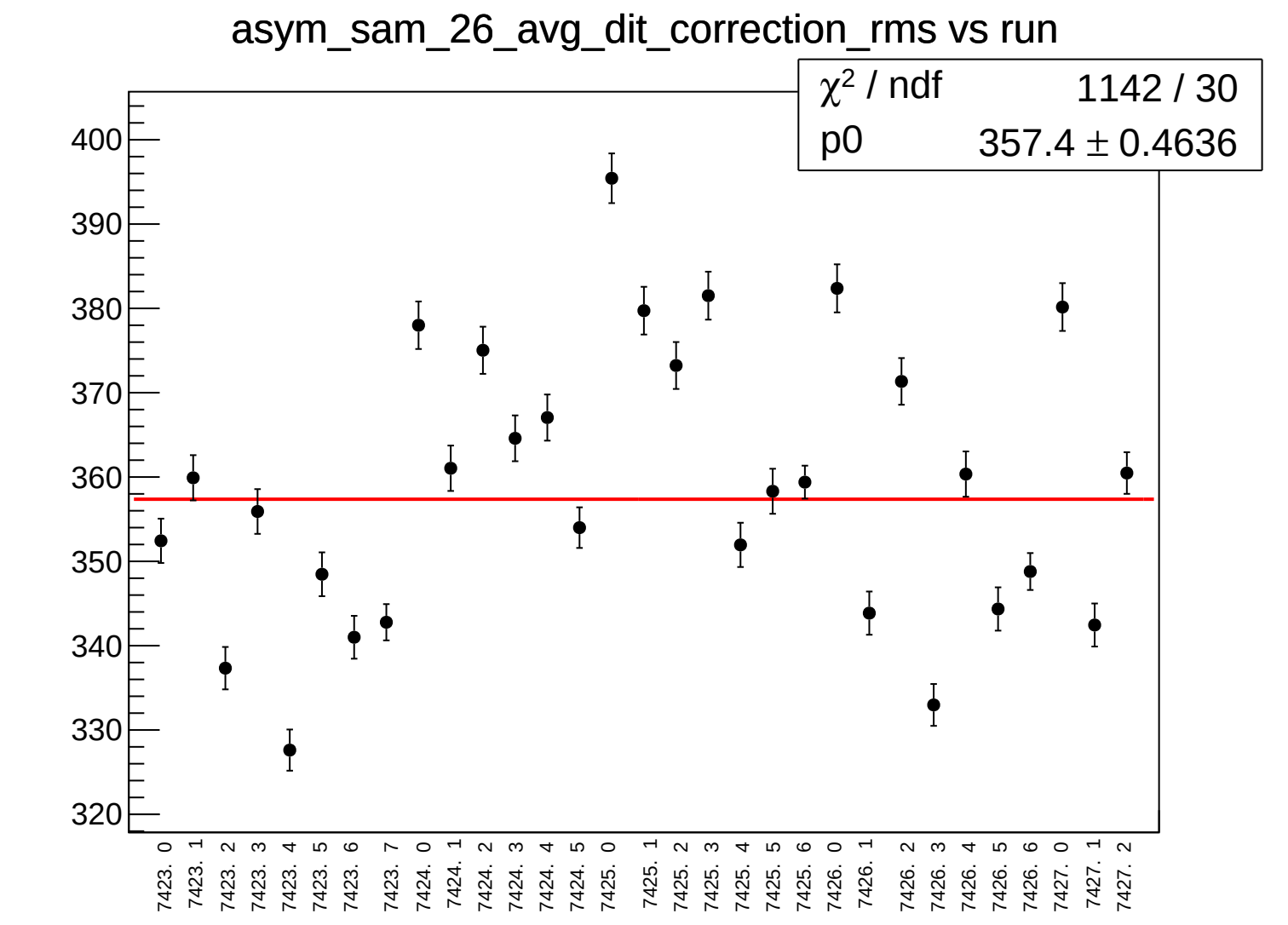

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 2007 / 30
p0 370 ± 0.4803
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

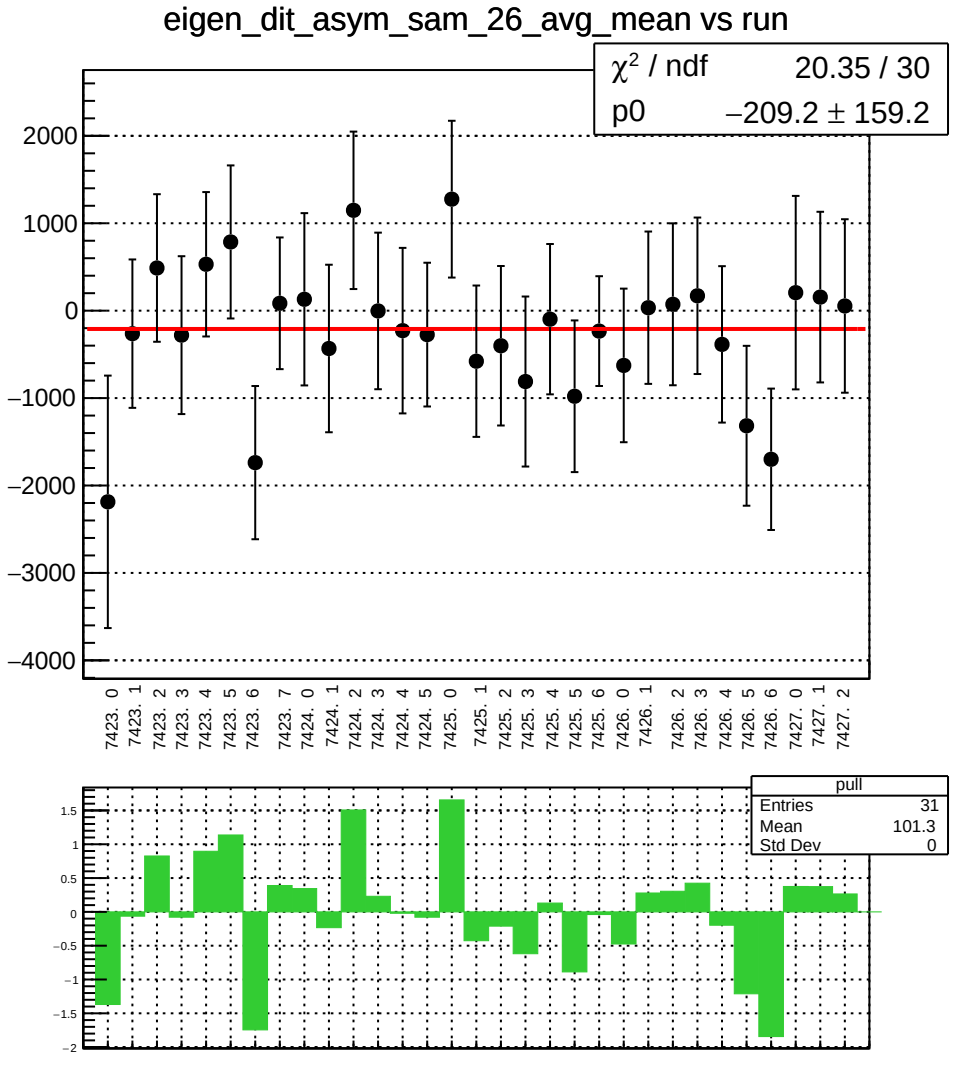

dit_asym_sam_26_avg_mean vs run
χ² / ndf 20.35 / 30
p0 −209.2 ± 159.2
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 101.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

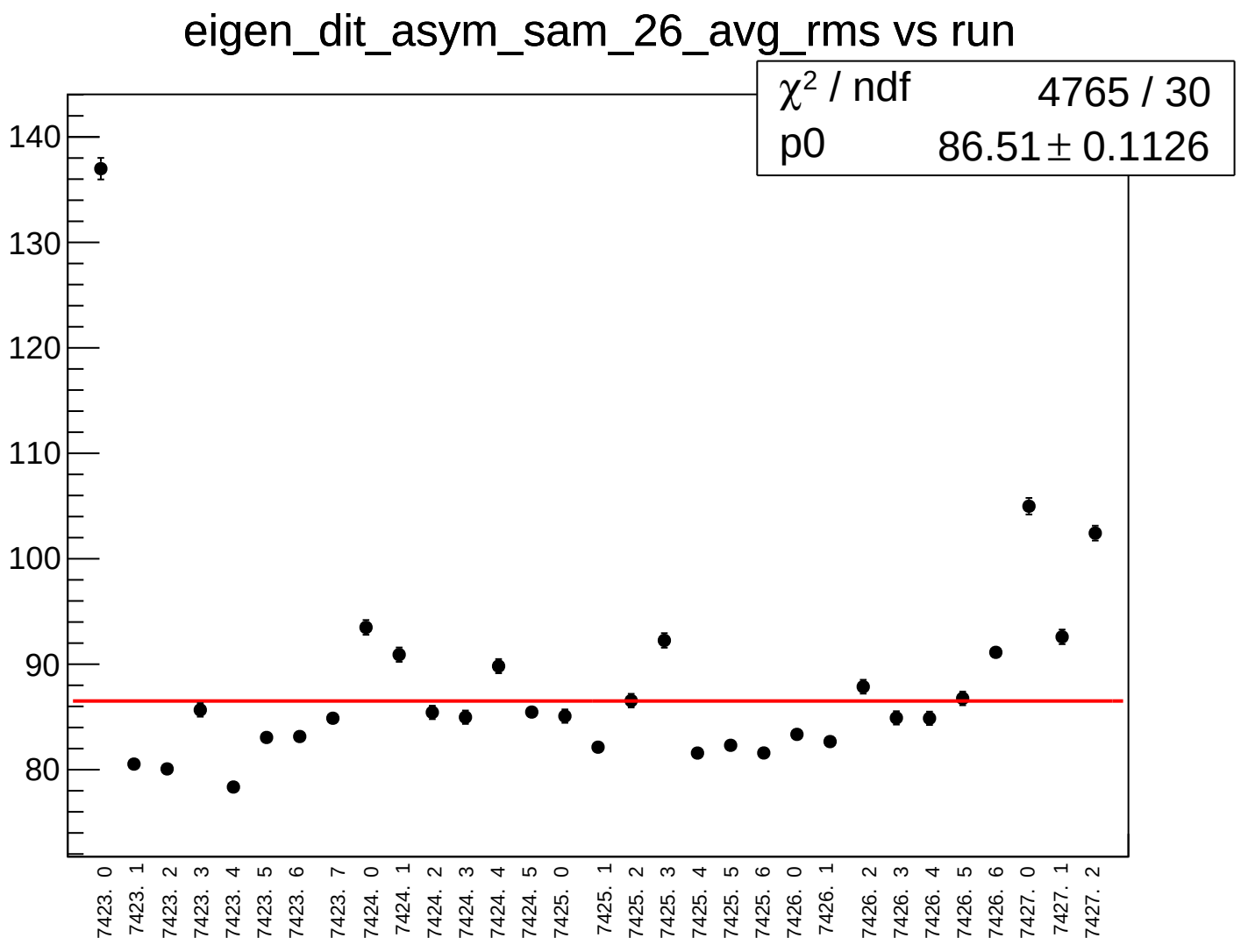

pull1D
Entries 31
Mean −0.01155
Std Dev 0.8101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

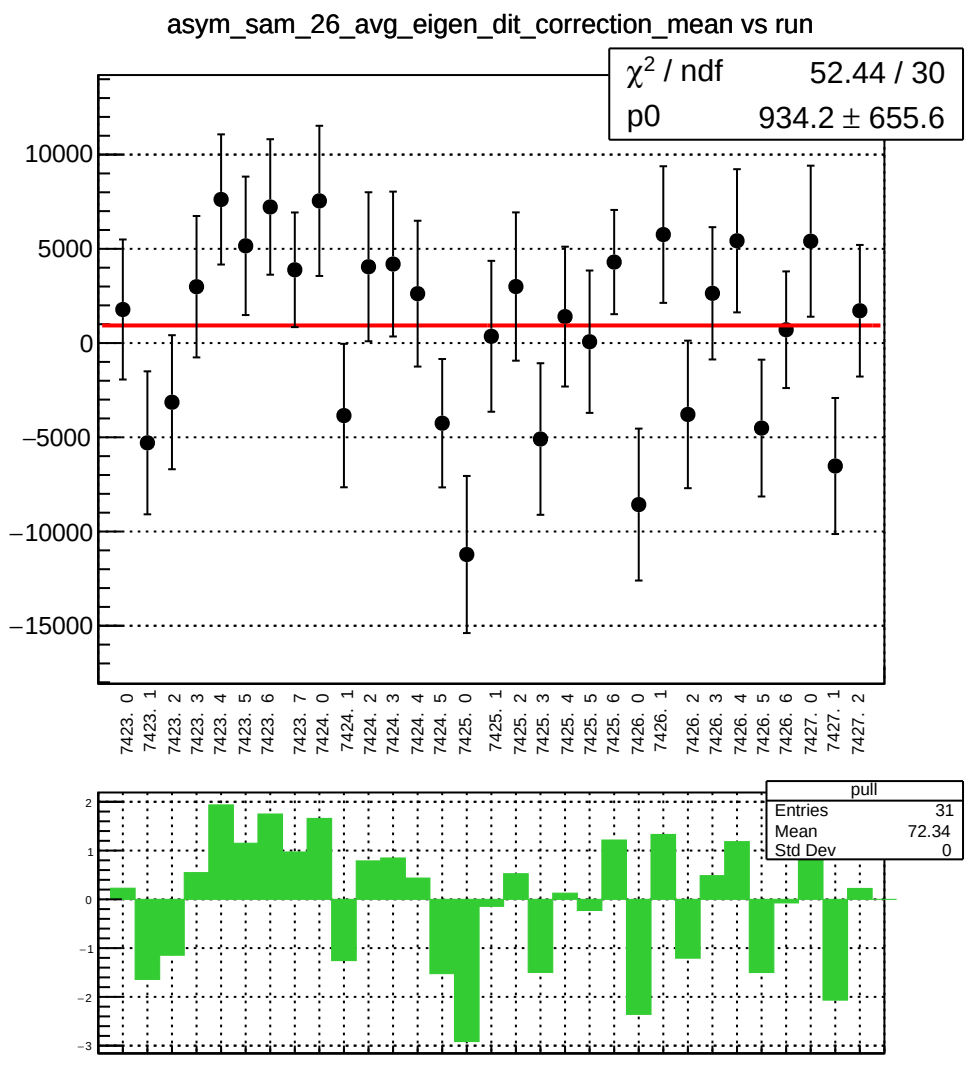

dit_asym_sam_26_avg_rms vs run
χ² / ndf 4765 / 30
p0 86.51 ± 0.1126
140
130
120
110
100
90
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

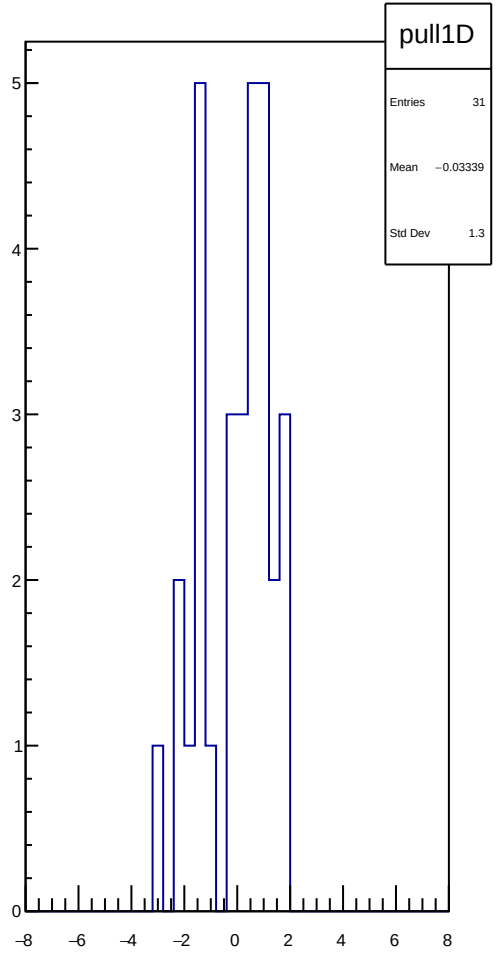

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 52.44 / 30
p0 934.2 ± 655.6
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 72.34
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.03339
Std Dev 1.3
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

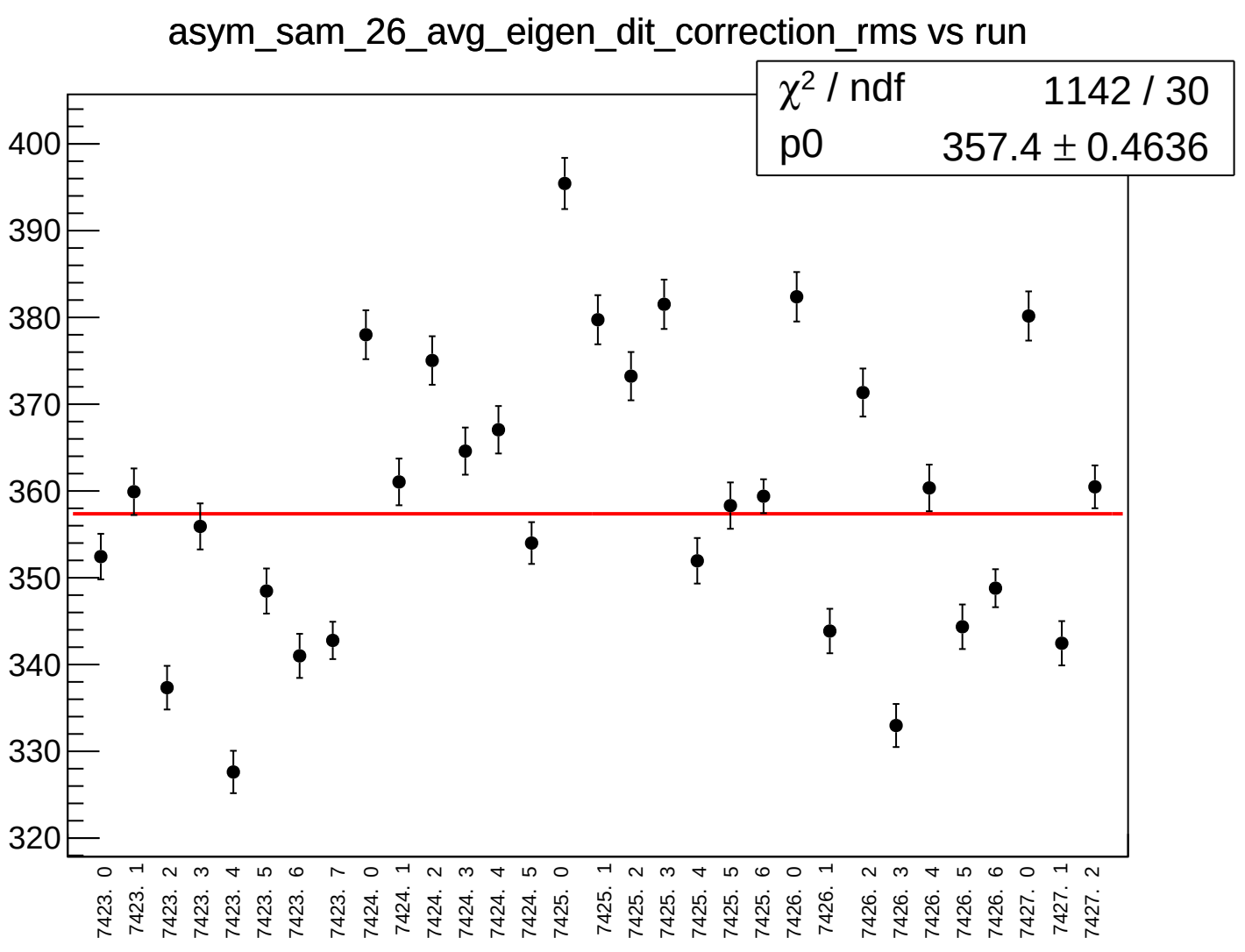

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1142 / 30
p0 357.4 ± 0.4636
400
390
380
370
360
350
340
330
320
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

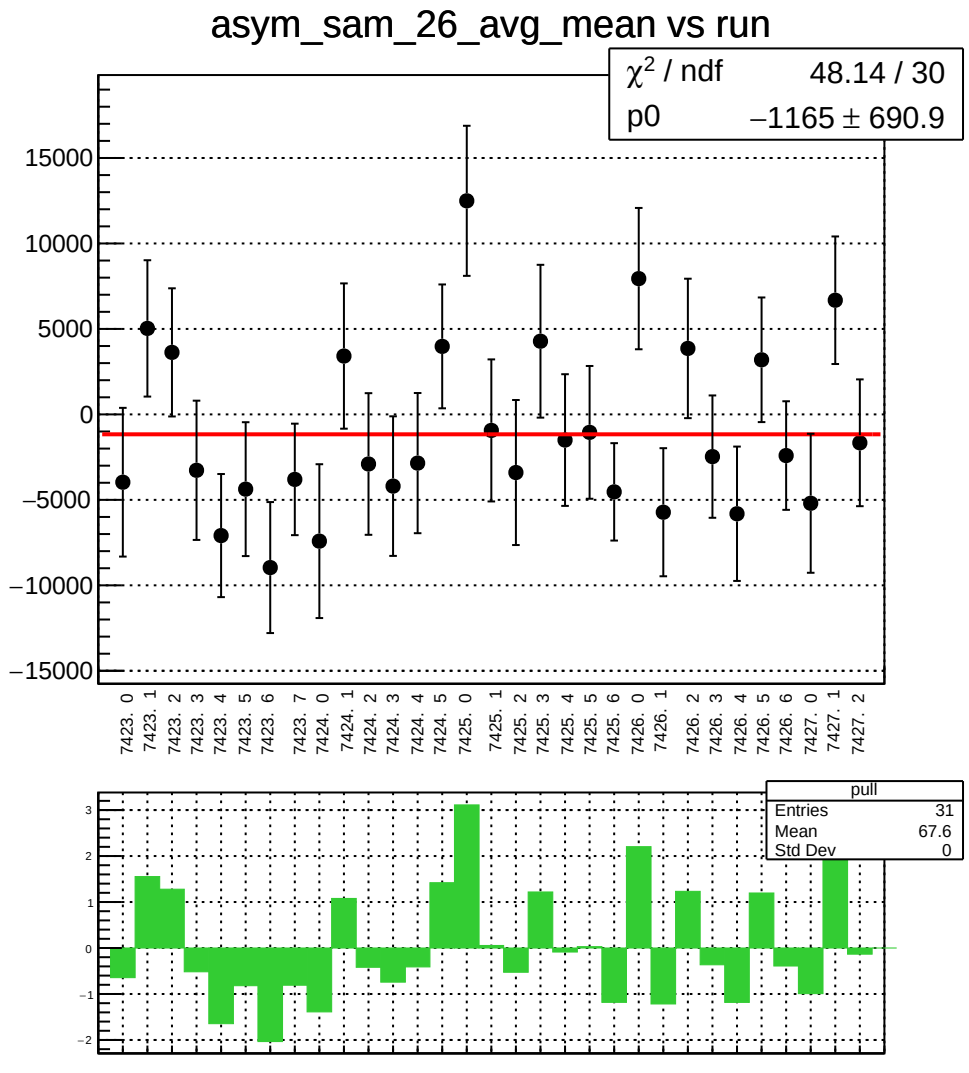

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 20.35 / 30
p0 −209.2 ± 159.2
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 101.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01155
Std Dev 0.8101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

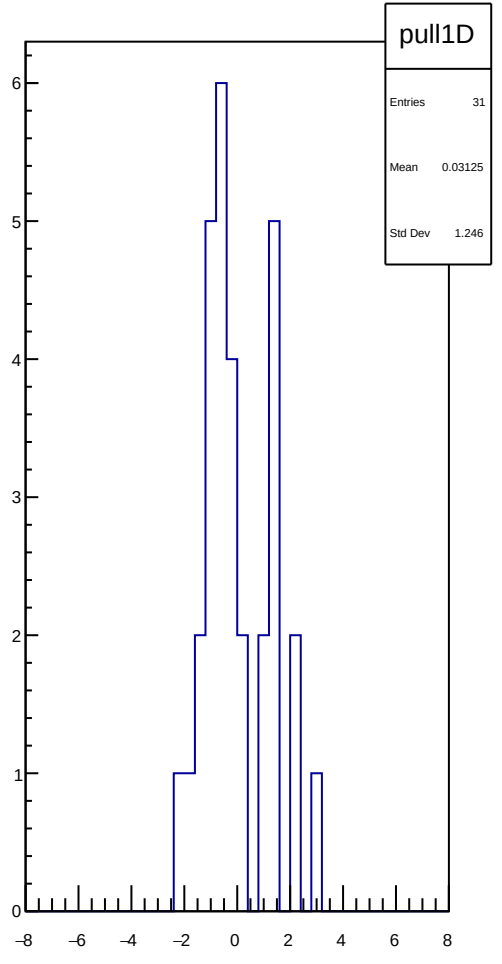

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 4765 / 30
p0 86.51 ± 0.1126
140
130
120
110
100
90
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

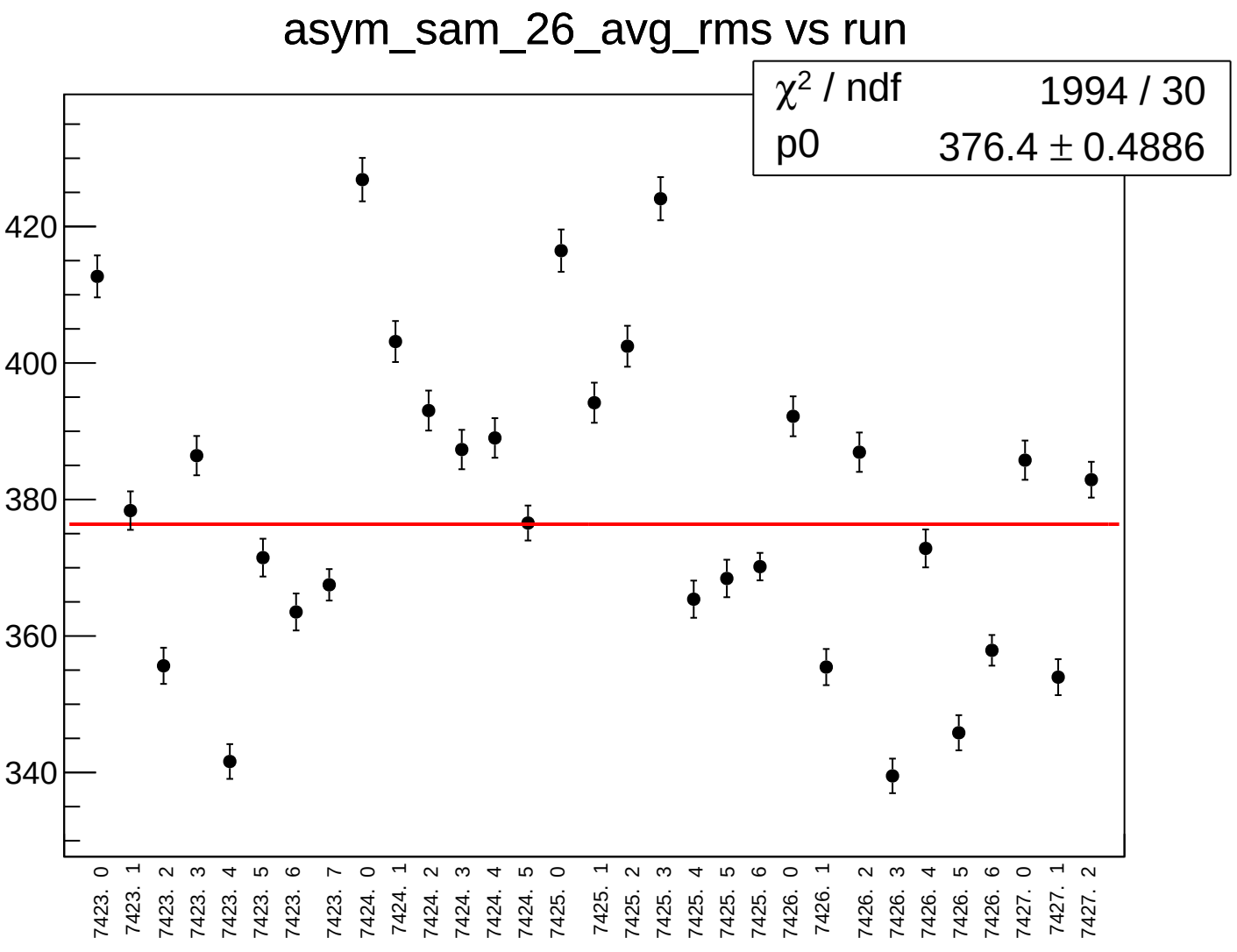

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 52.44 / 30
p0 934.2 ± 655.6
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 72.34
Std Dev 0
2
1
0
−1
−2
−3

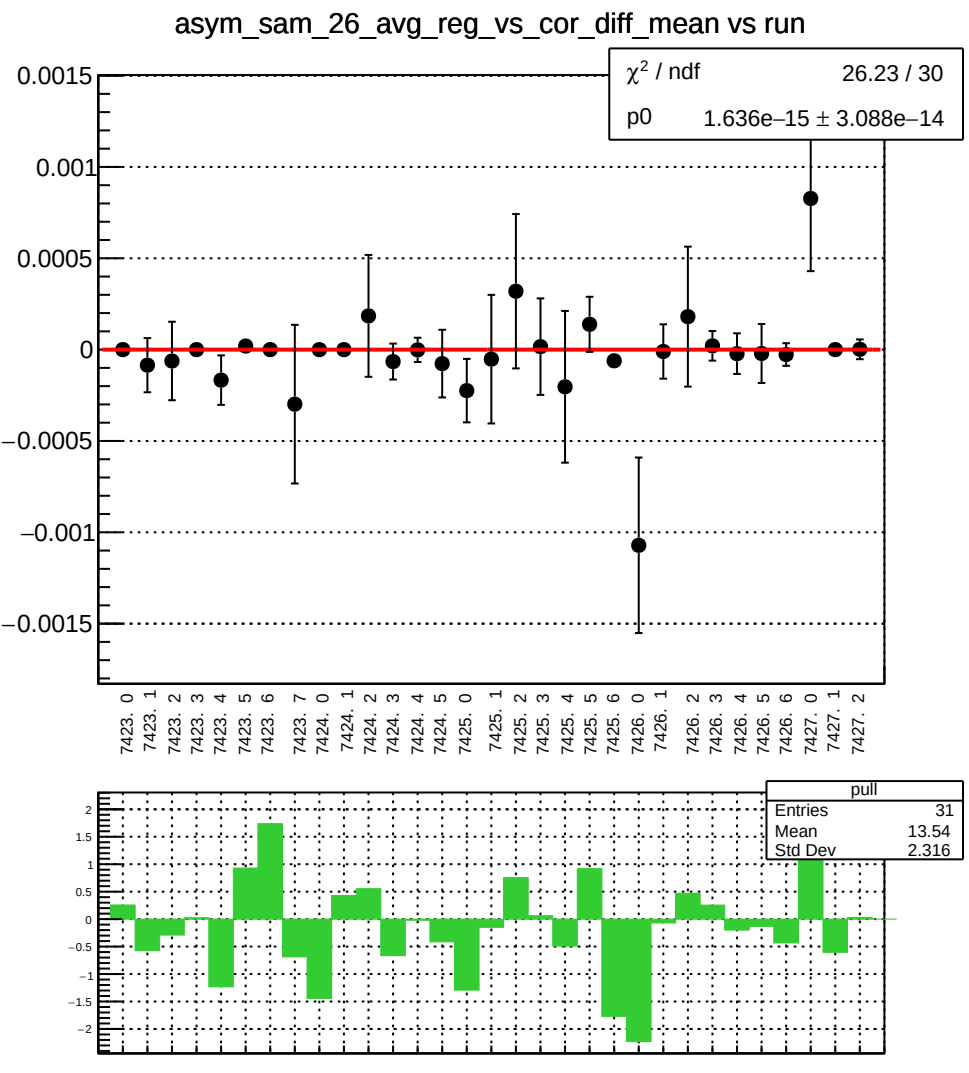

pull1D
Entries 31
Mean −0.03339
Std Dev 1.3
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

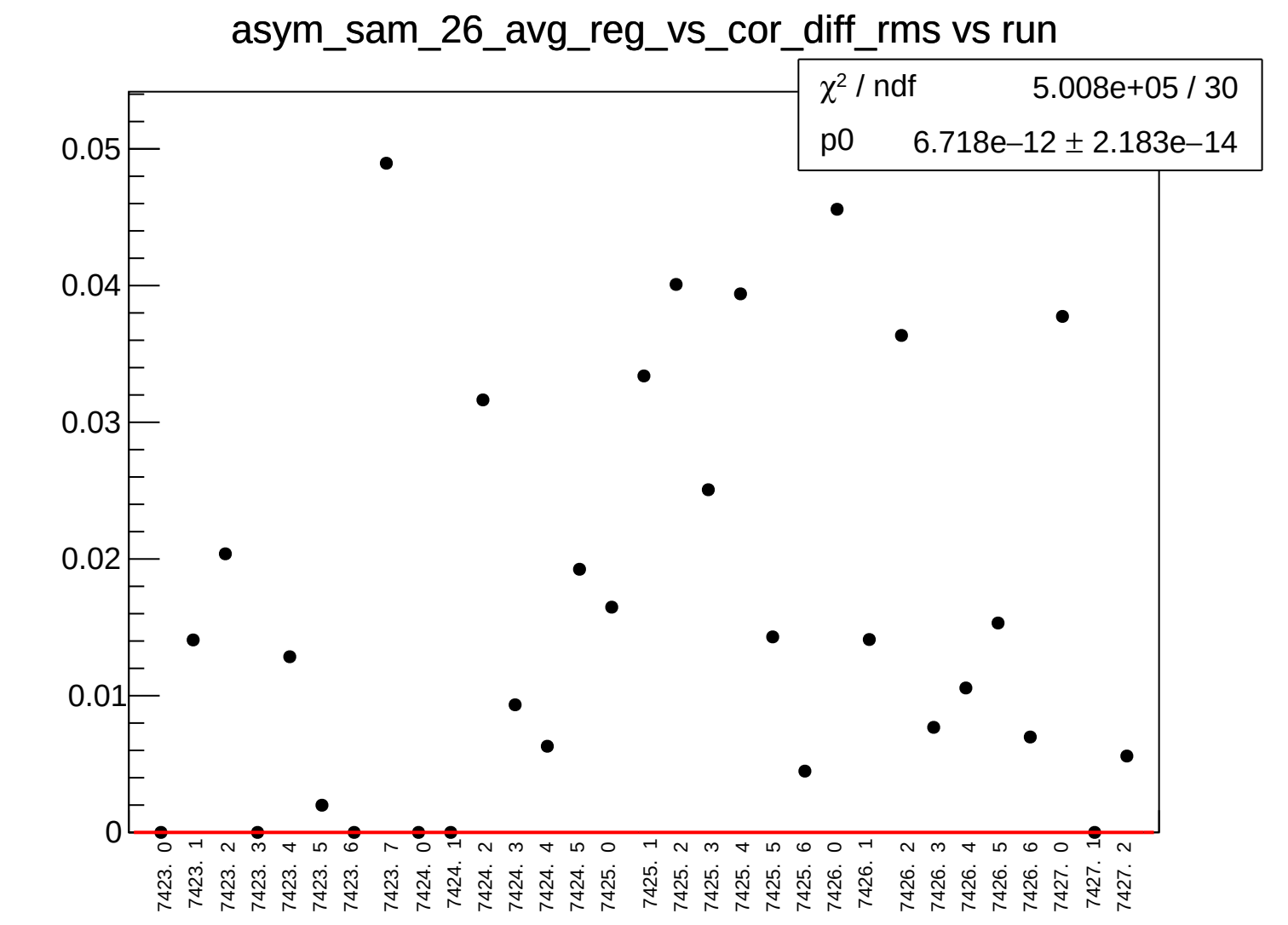

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1142 / 30
p0 357.4 ± 0.4636
400
390
380
370
360
350
340
330
320
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

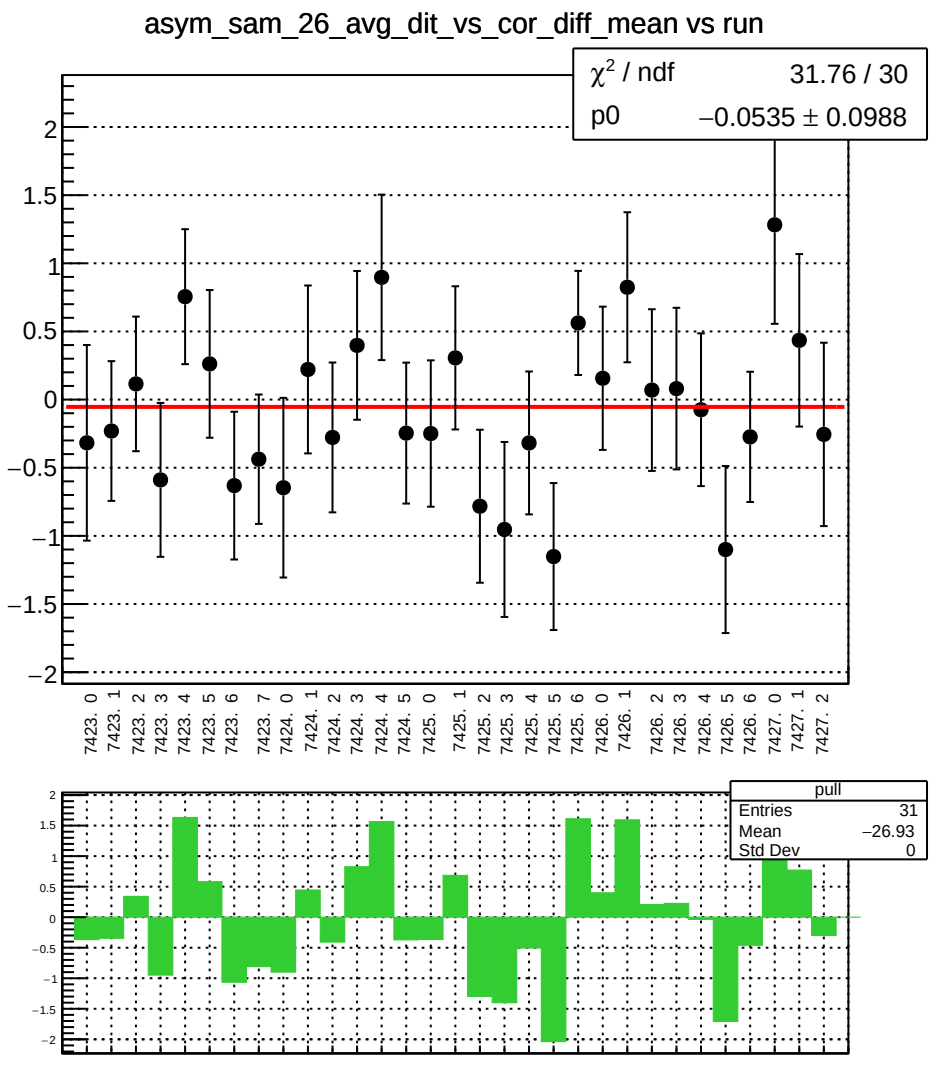

asym_sam_26_avg_mean vs run
χ² / ndf 48.14 / 30
p0 −1165 ± 690.9
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 67.6
Std Dev 0
3
2
1
0
−1
−2

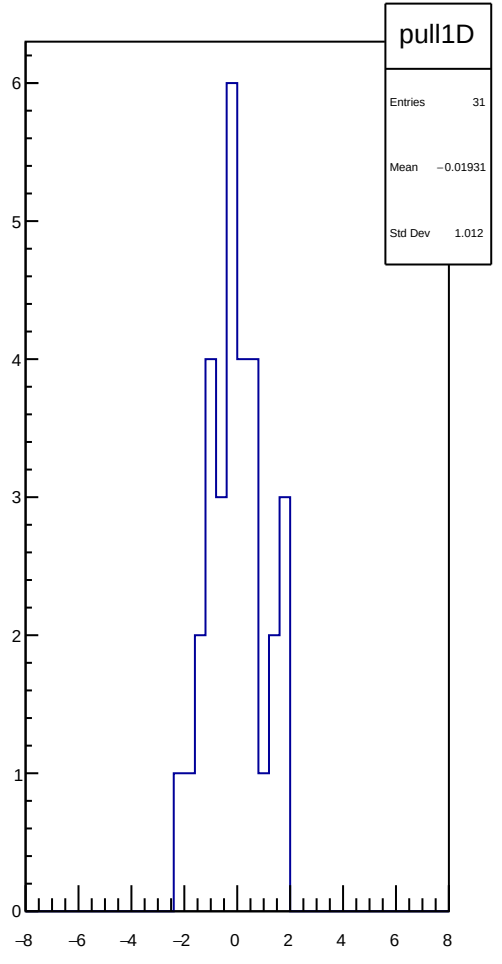

pull1D
Entries 31
Mean 0.03125
Std Dev 1.246
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

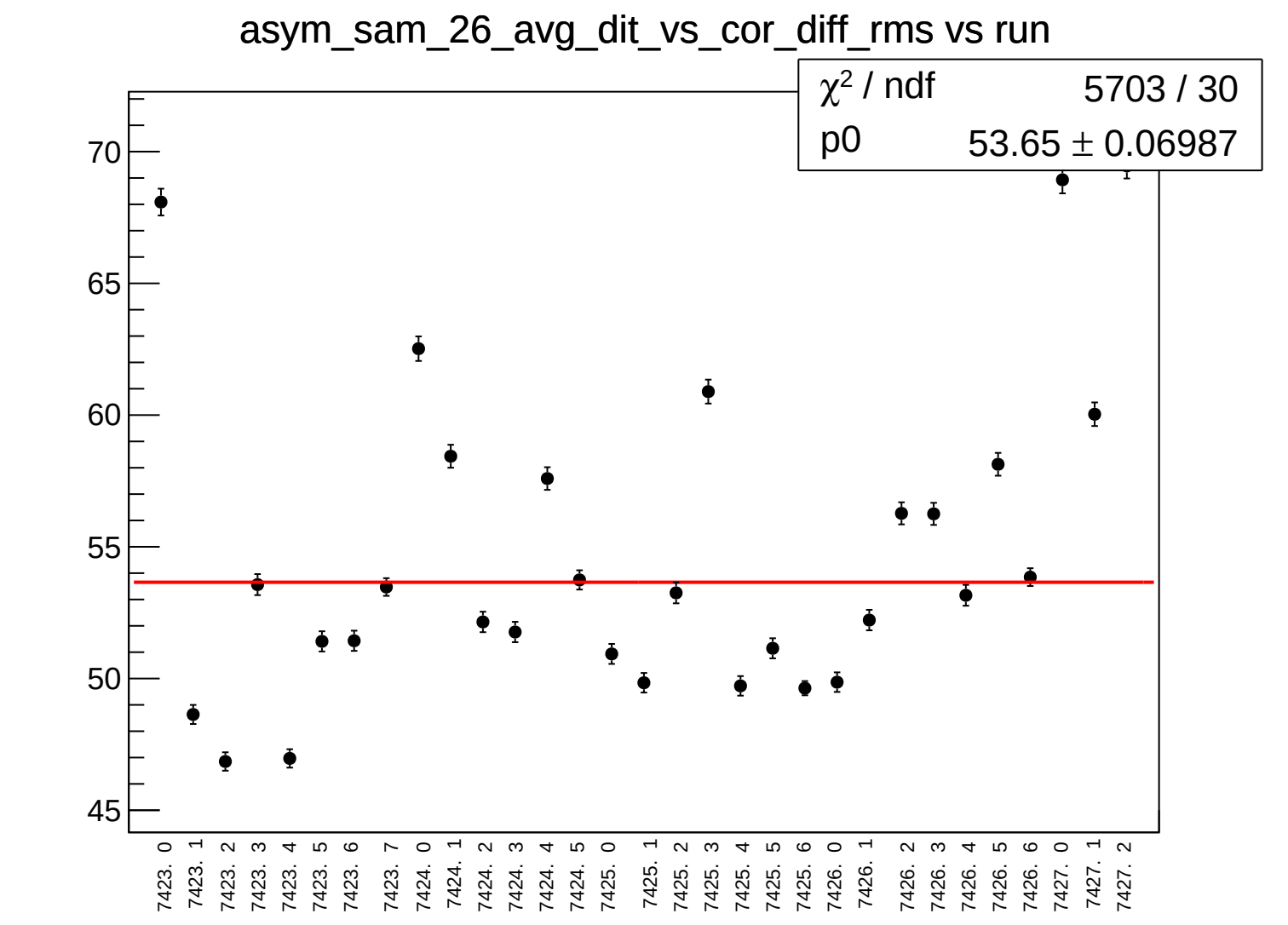

asym_sam_26_avg_rms vs run
χ² / ndf 1994 / 30
p0 376.4 ± 0.4886
420
400
380
360
340
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

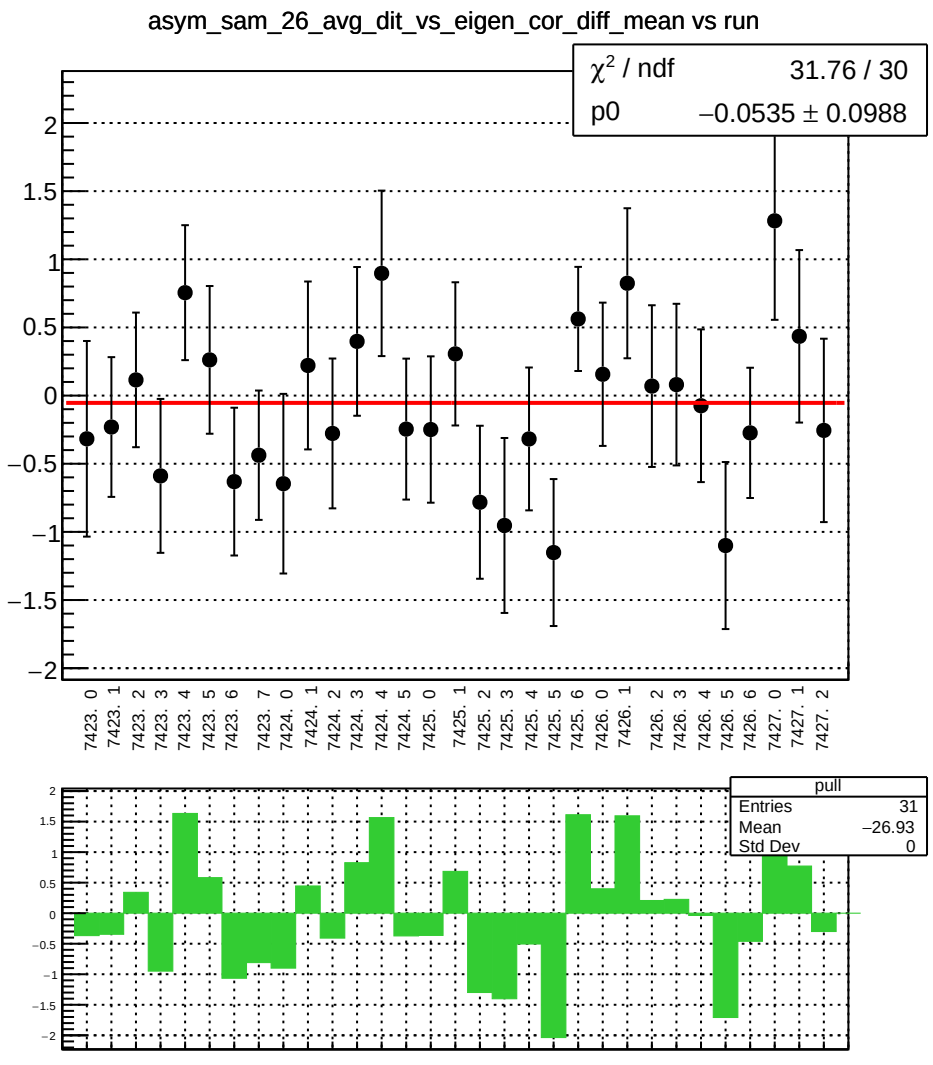

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.23 / 30
p0 1.636e−15 ± 3.088e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 13.54
Std Dev 2.316
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.135
Std Dev 0.9098
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

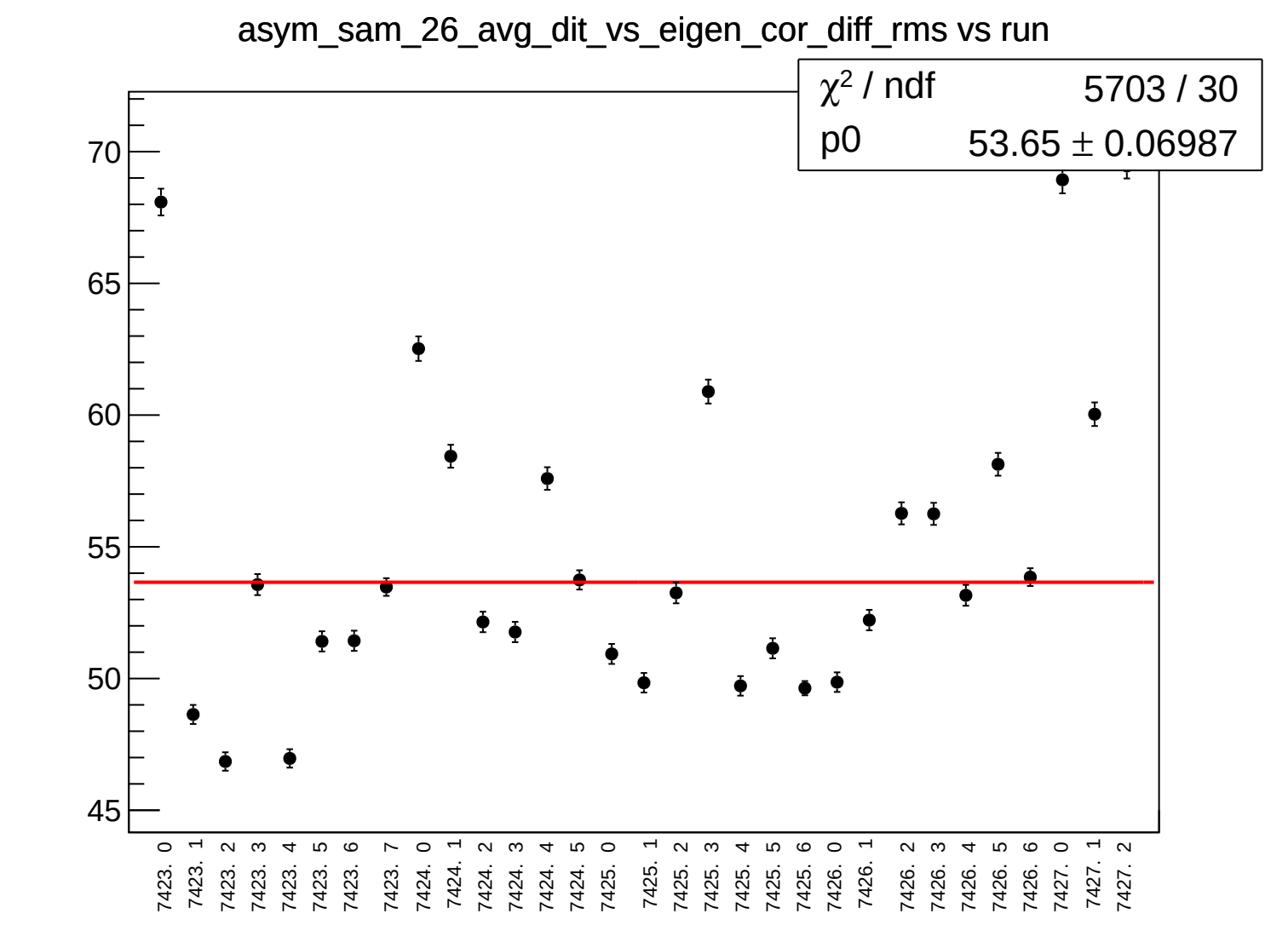

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.008e+05 / 30
p0 6.718e−12 ± 2.183e−14
0.05
0.04
0.03
0.02
0.01
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

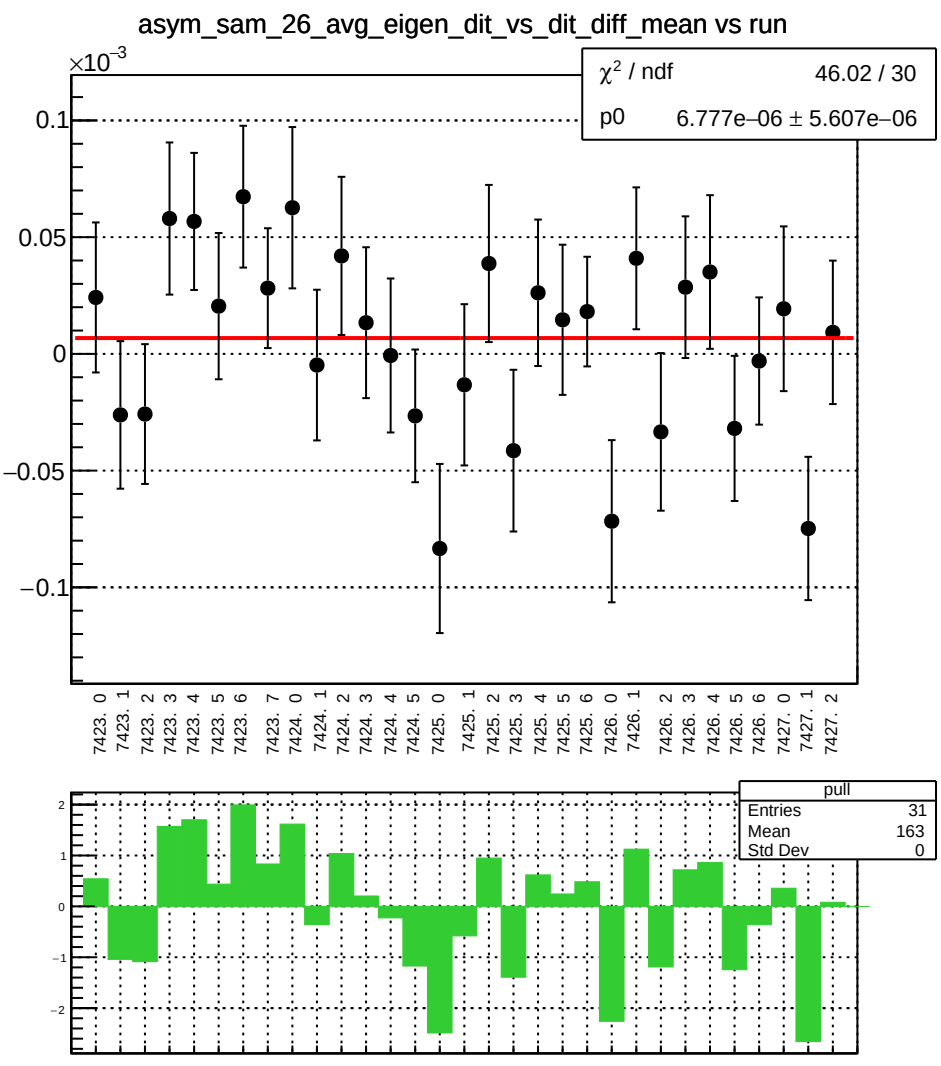

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.76 / 30
p0 −0.0535 ± 0.0988
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −26.93
Std Dev 0

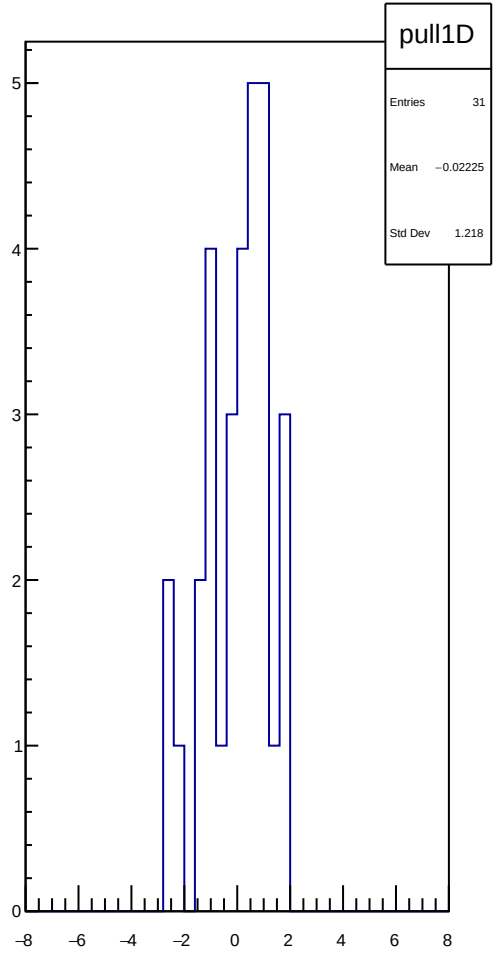

pull1D
Entries 31
Mean −0.01931
Std Dev 1.012
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

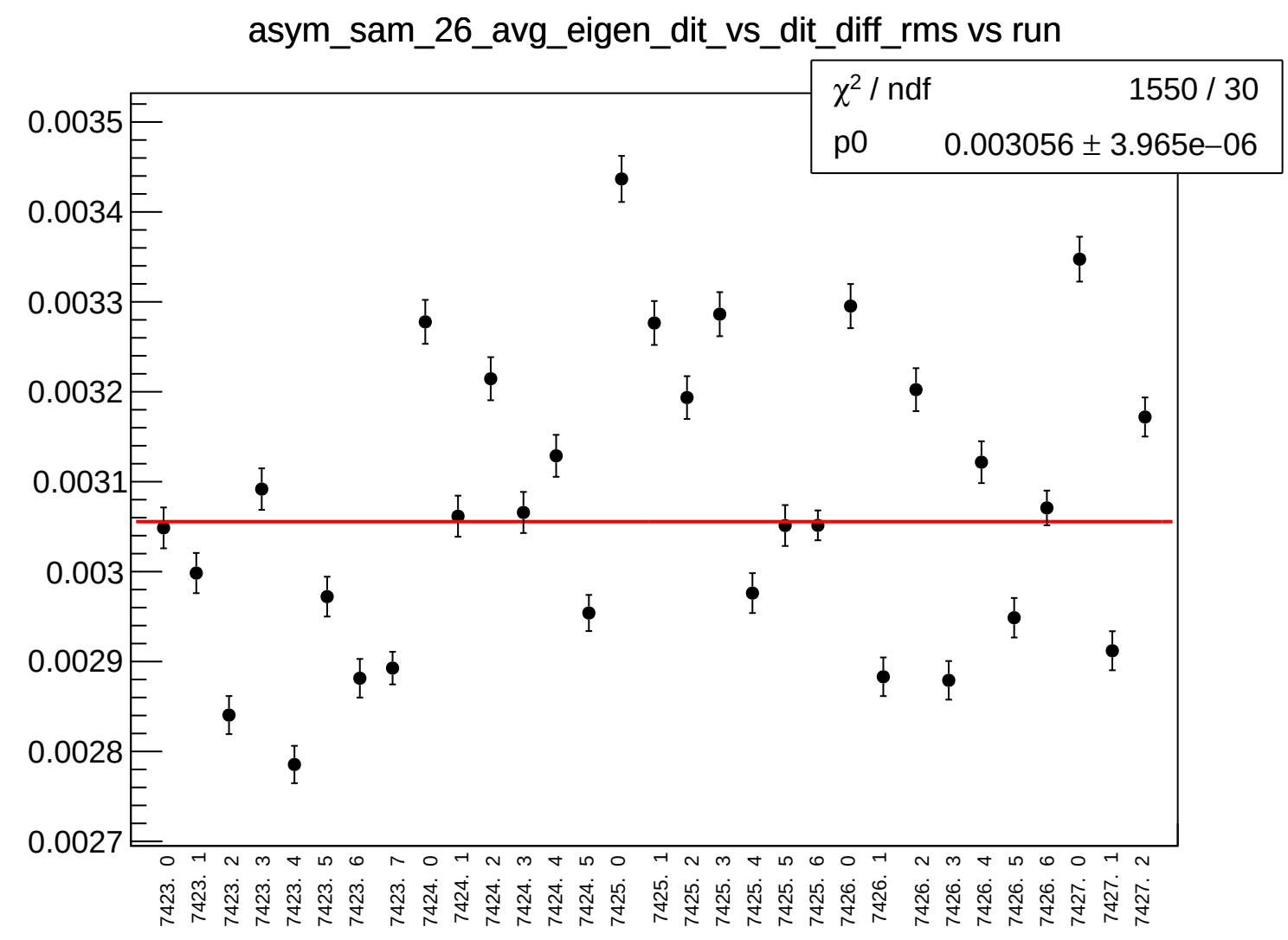

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5703 / 30
p0 53.65 ± 0.06987
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

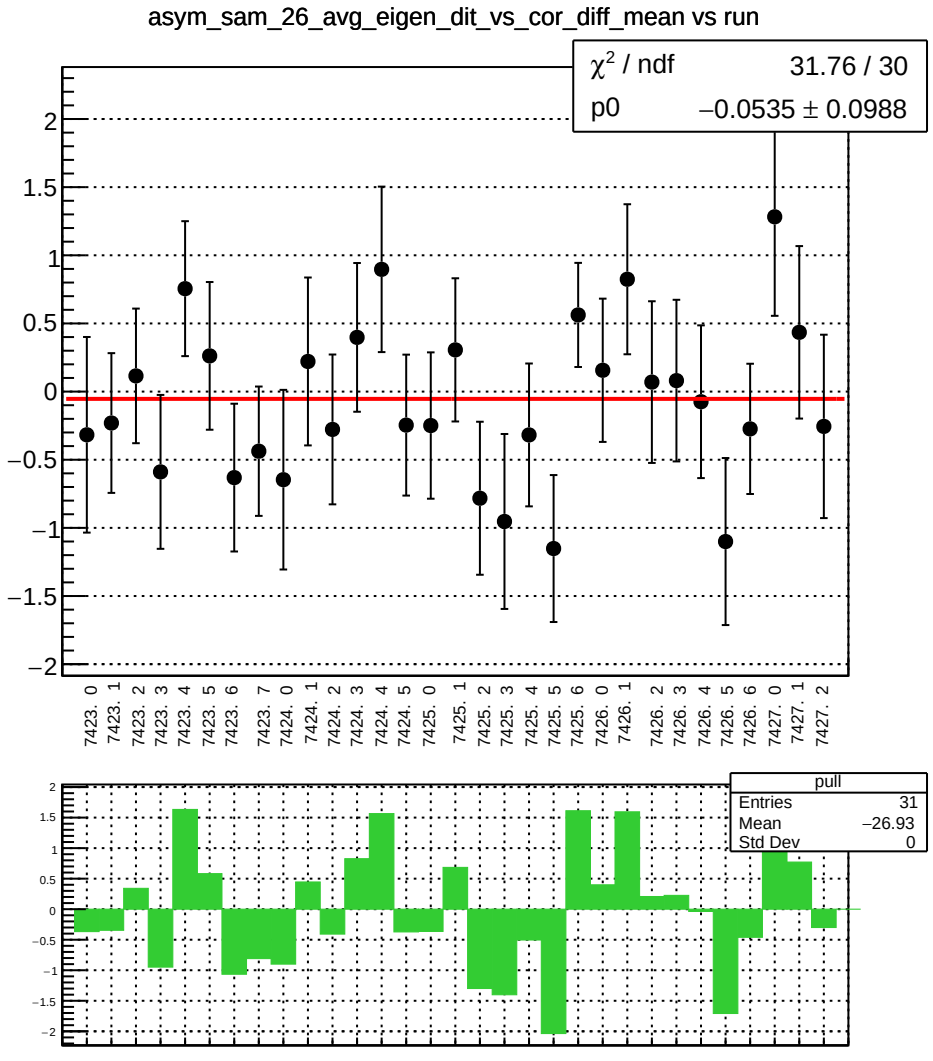

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.76 / 30
p0 −0.0535 ± 0.0988
pull
Entries 31
Mean −26.93
Std Dev 0
pull1D
Entries 31
Mean −0.01931
Std Dev 1.012

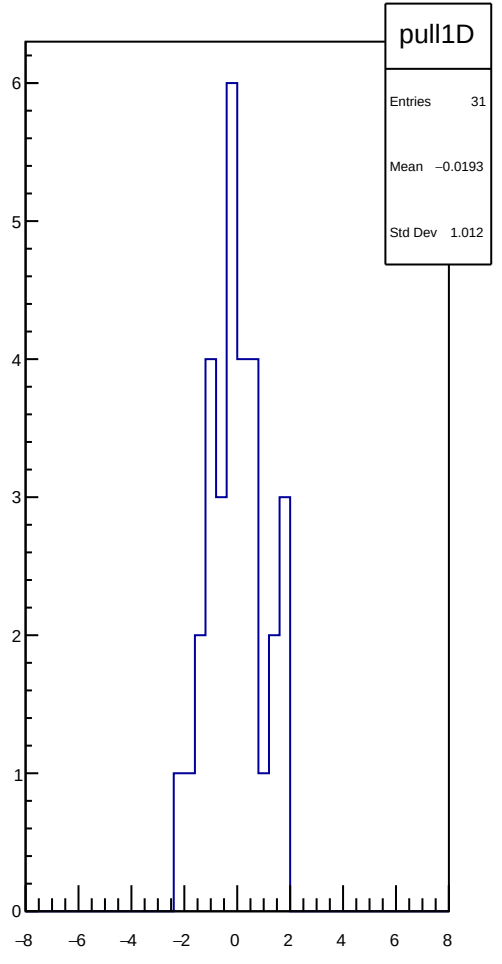

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5703 / 30
p0 53.65 ± 0.06987
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

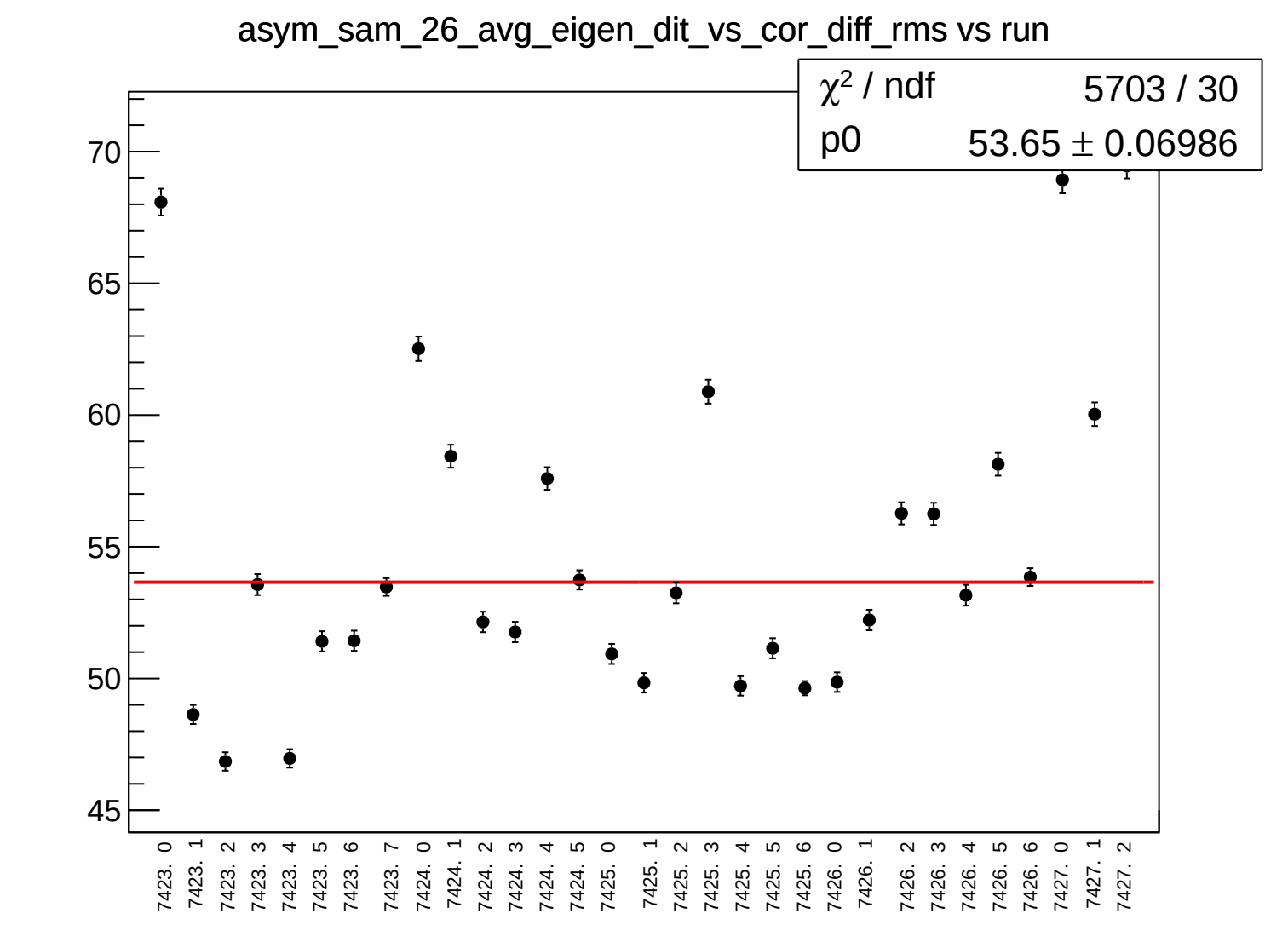

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.02 / 30
p0 6.777e−06 ± 5.607e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 163
Std Dev 0
2
1
0
−1
−2

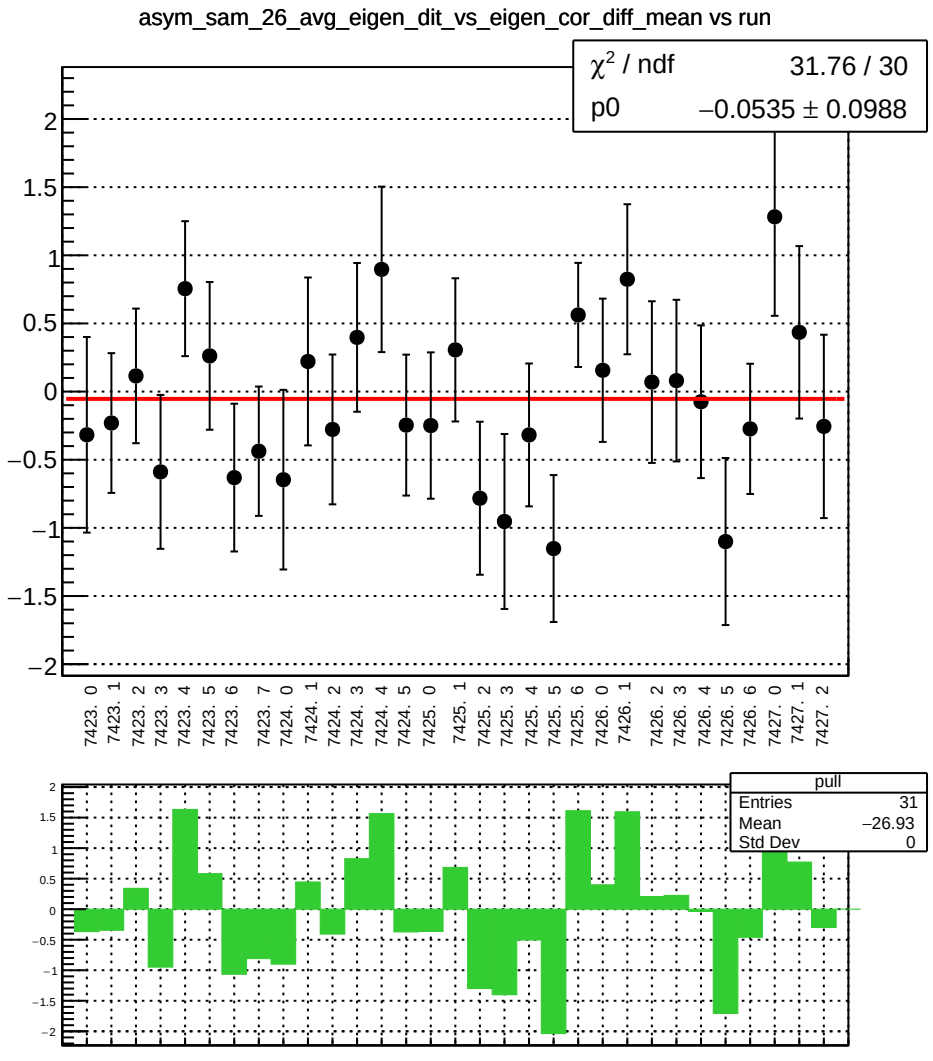

pull1D
Entries 31
Mean −0.02225
Std Dev 1.218
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

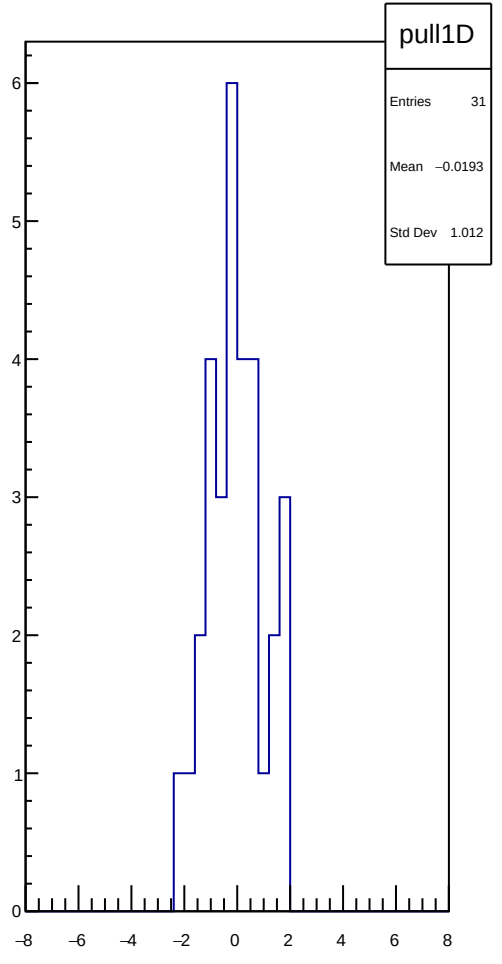

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1550 / 30
p0 0.003056 ± 3.965e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

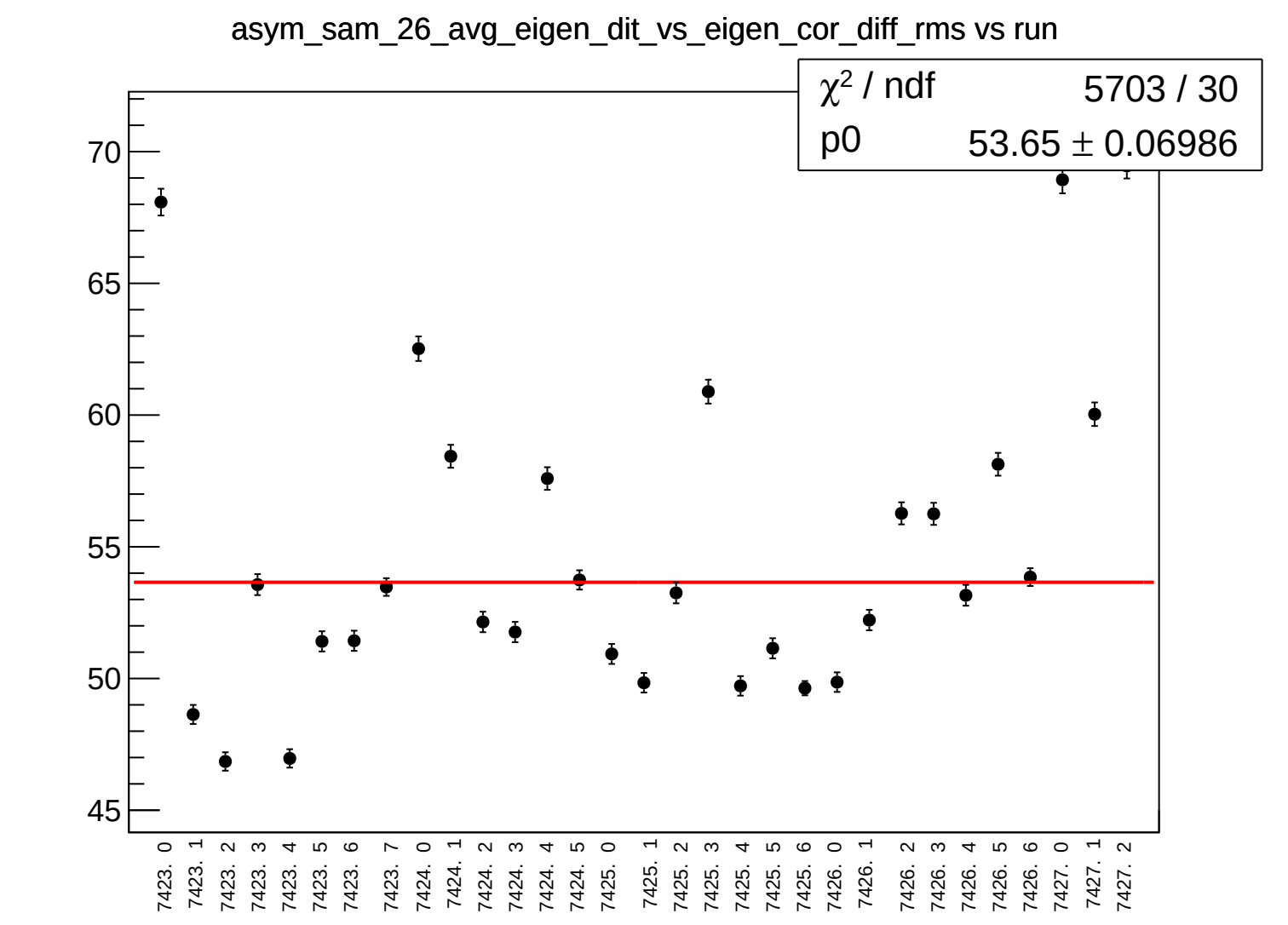

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.76 / 30
p0 −0.0535 ± 0.0988
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −26.93
Std Dev 0

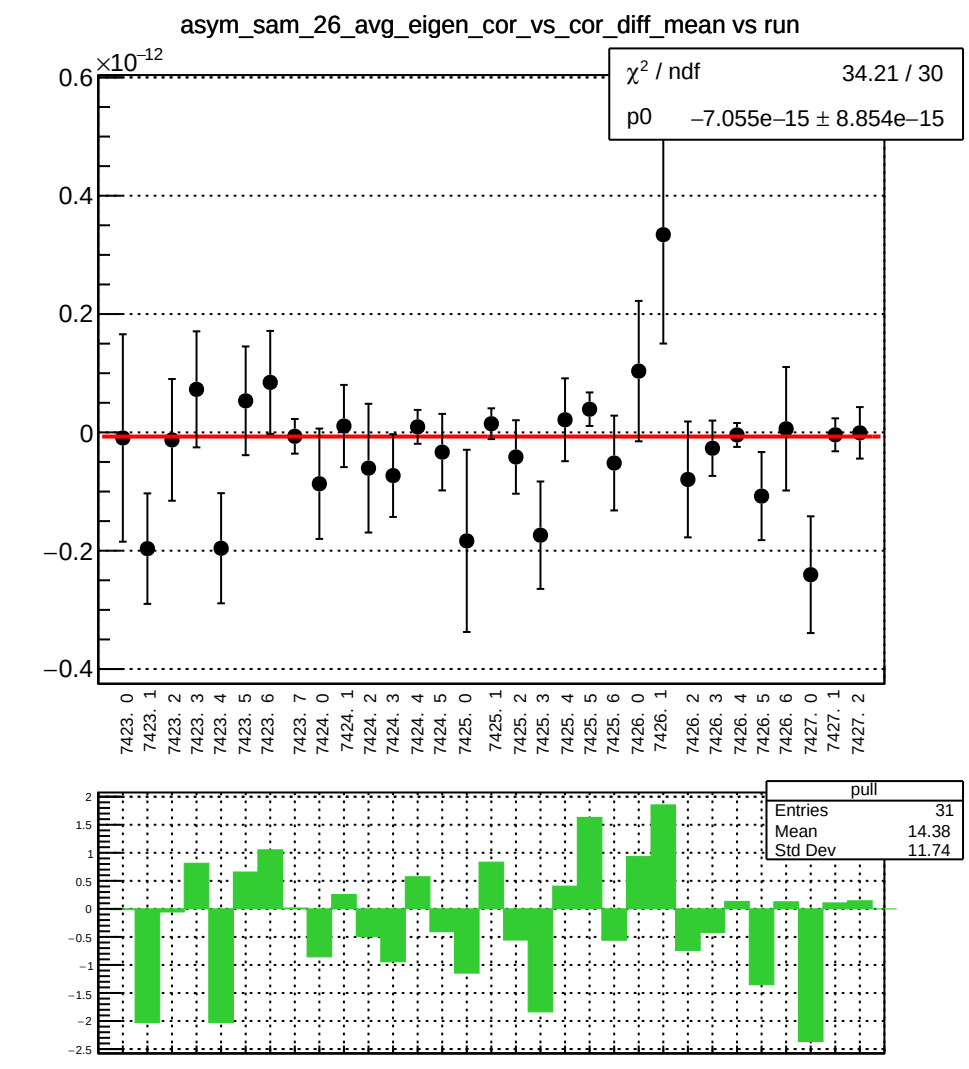

pull1D
Entries 31
Mean −0.0193
Std Dev 1.012
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

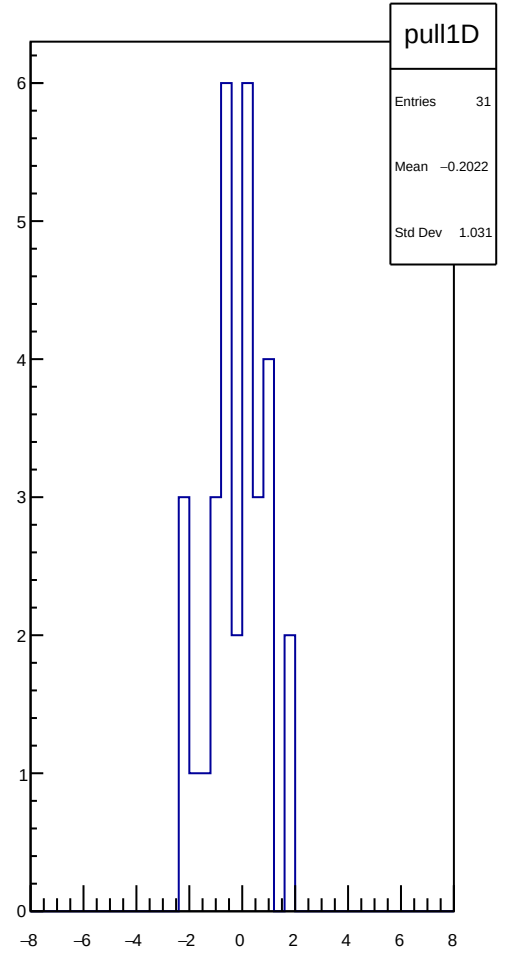

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5703 / 30
p0 53.65 ± 0.06986
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

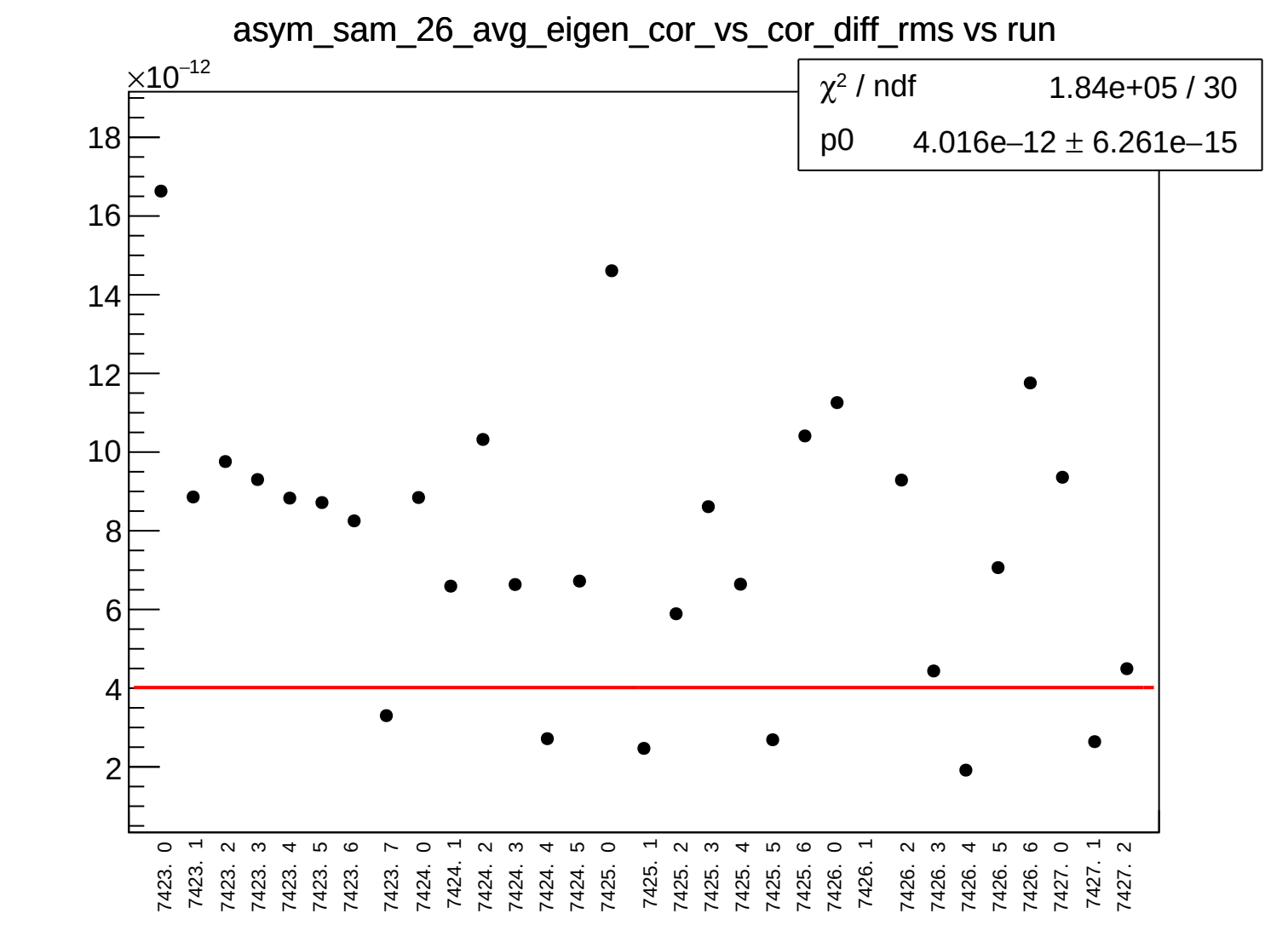

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.76 / 30
p0 −0.0535 ± 0.0988
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −26.93
Std Dev 0

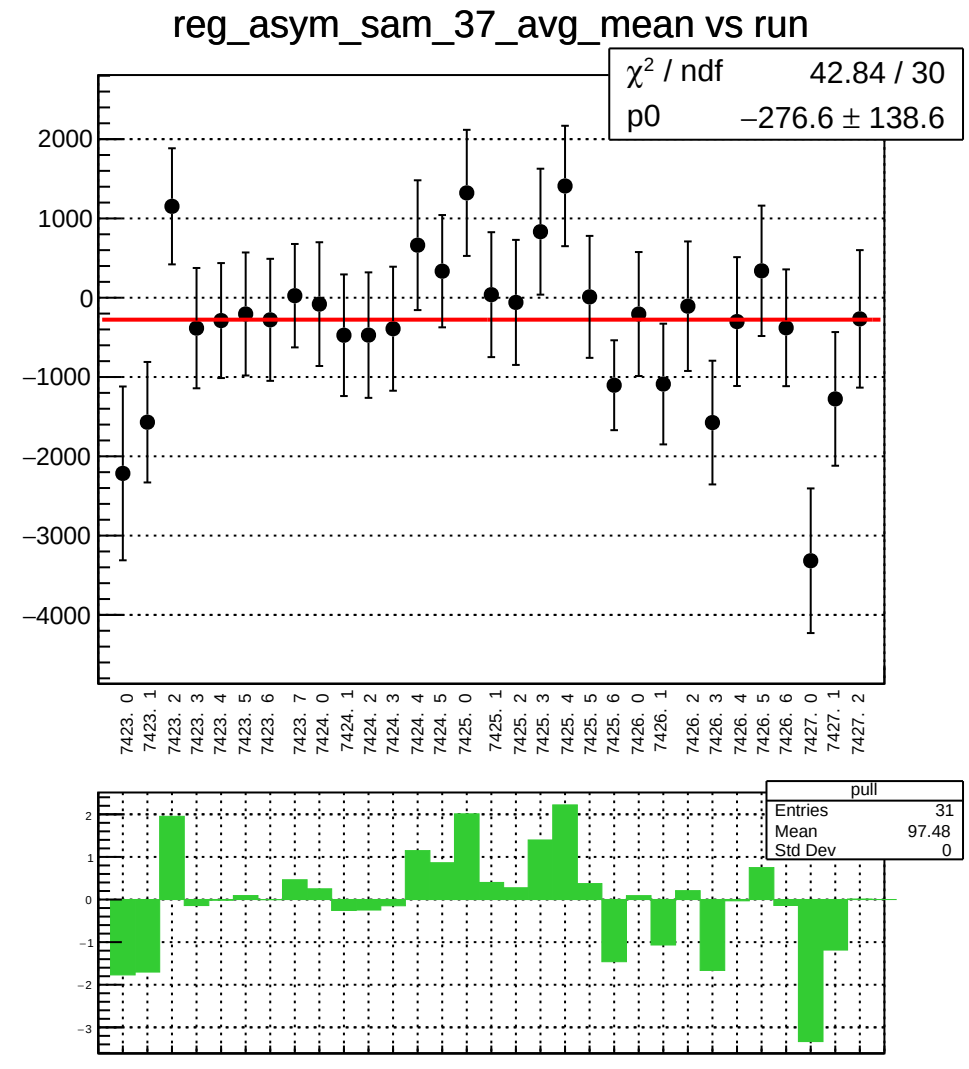

pull1D
Entries 31
Mean −0.0193
Std Dev 1.012
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

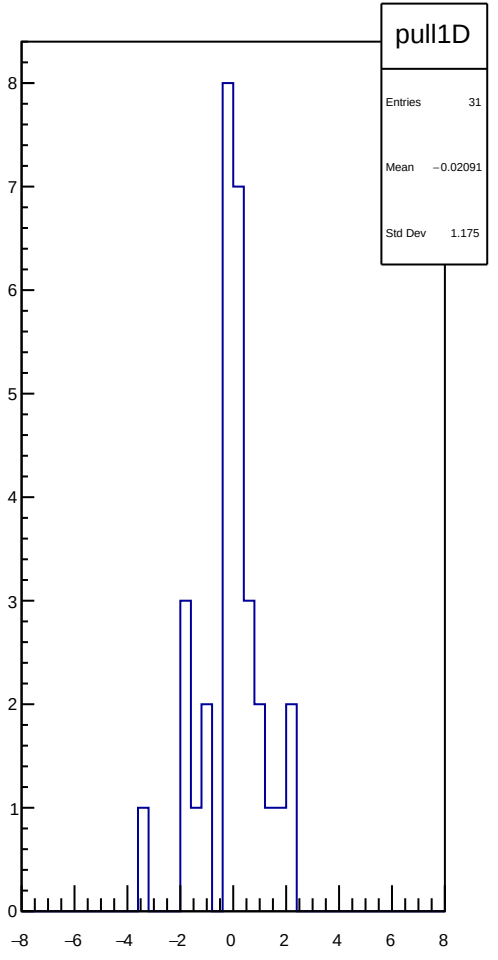

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5703 / 30
p0 53.65 ± 0.06986
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

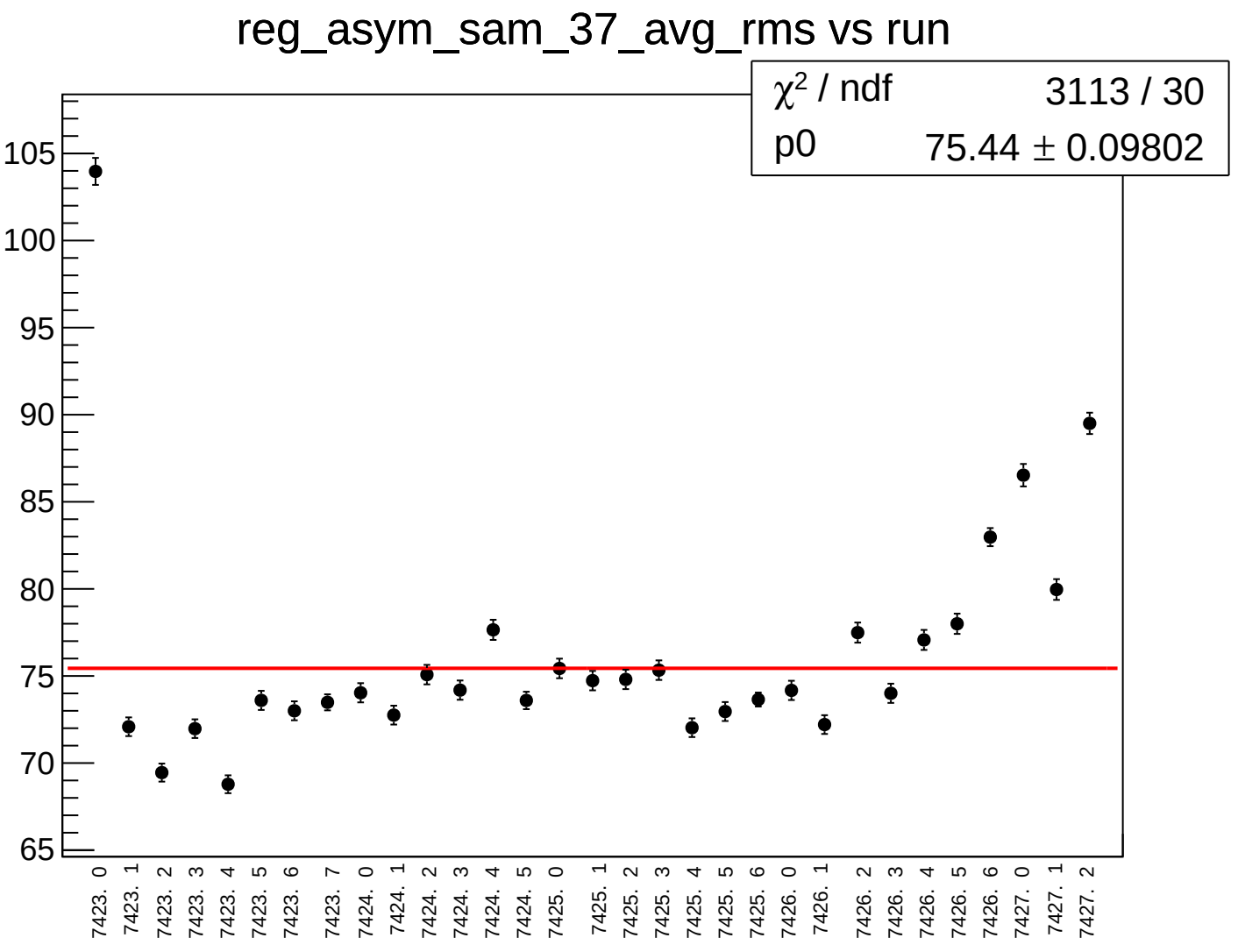

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.21 / 30
p0 −7.055e−15 ± 8.854e−15
0.6
0.4
0.2
0
−0.2
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.38
Std Dev 11.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

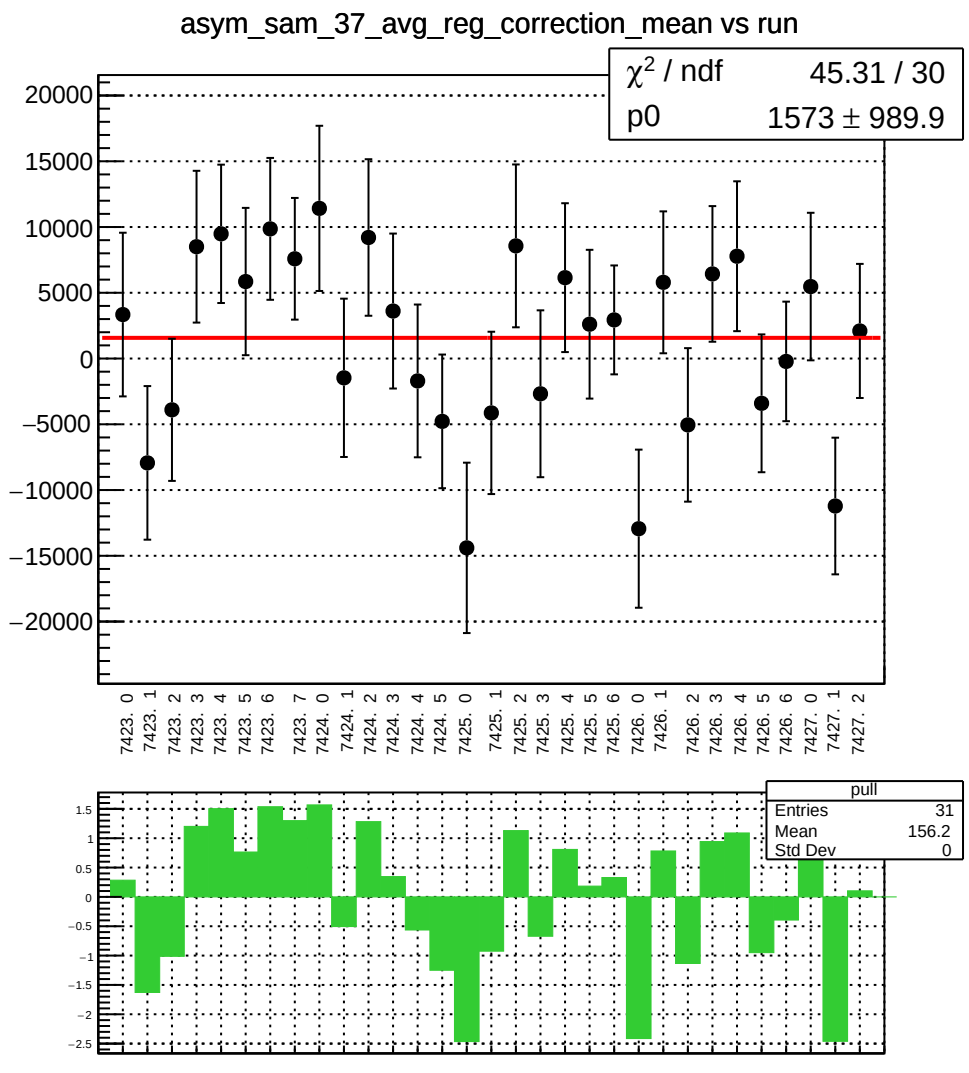

pull1D
Entries 31
Mean −0.2022
Std Dev 1.031
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

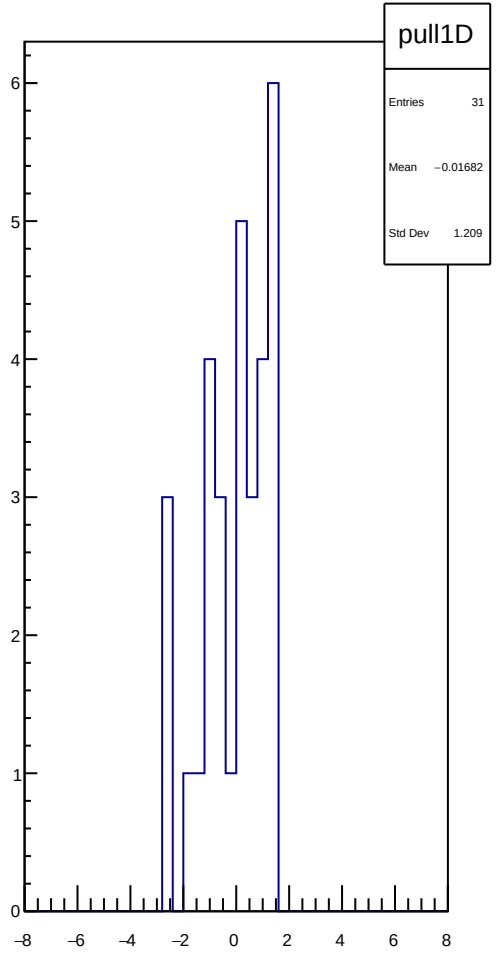

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.84e+05 / 30
p0 4.016e−12 ± 6.261e−15
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

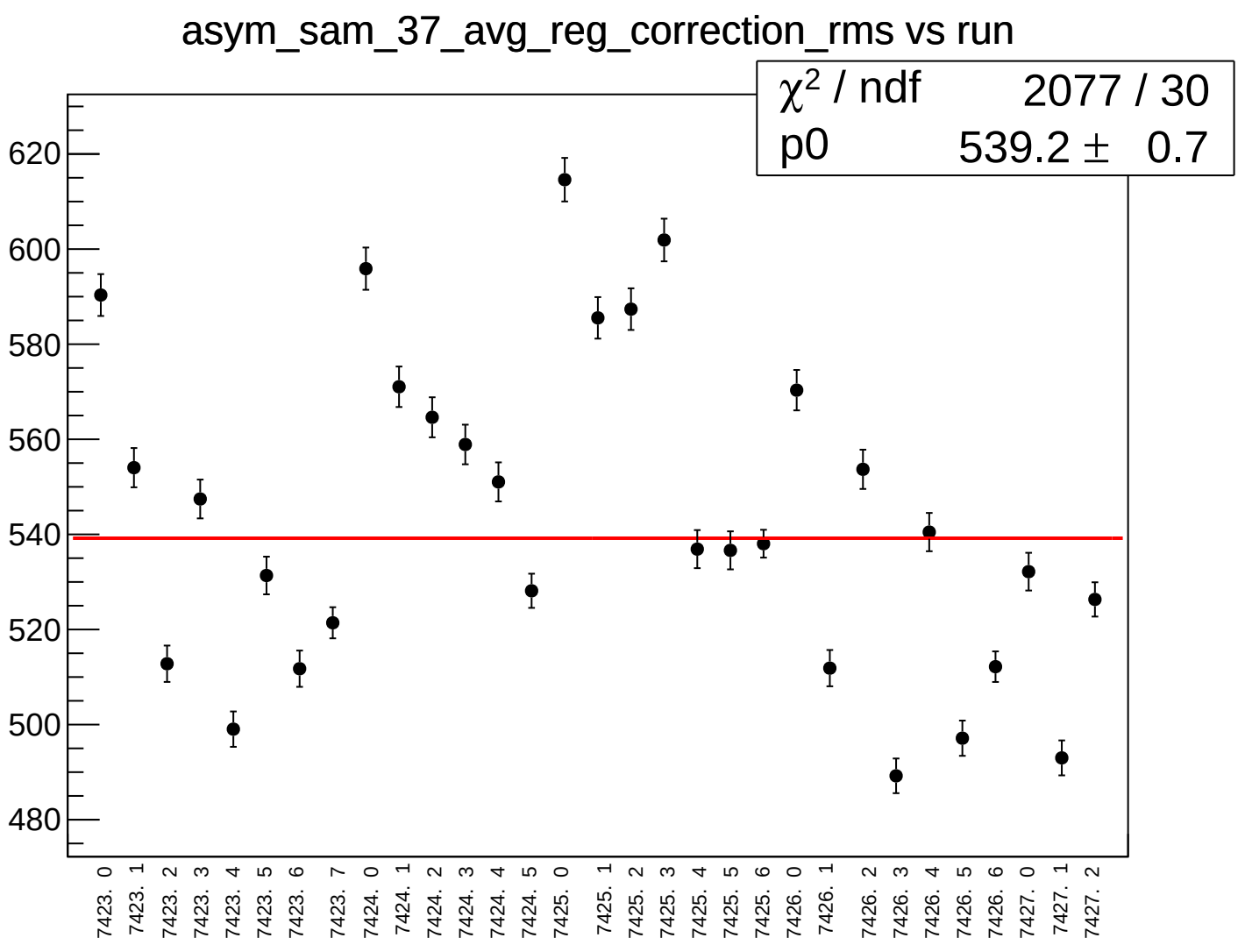

reg_asym_sam_37_avg_mean vs run
χ² / ndf 42.84 / 30
p0 −276.6 ± 138.6
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 97.48
Std Dev 0

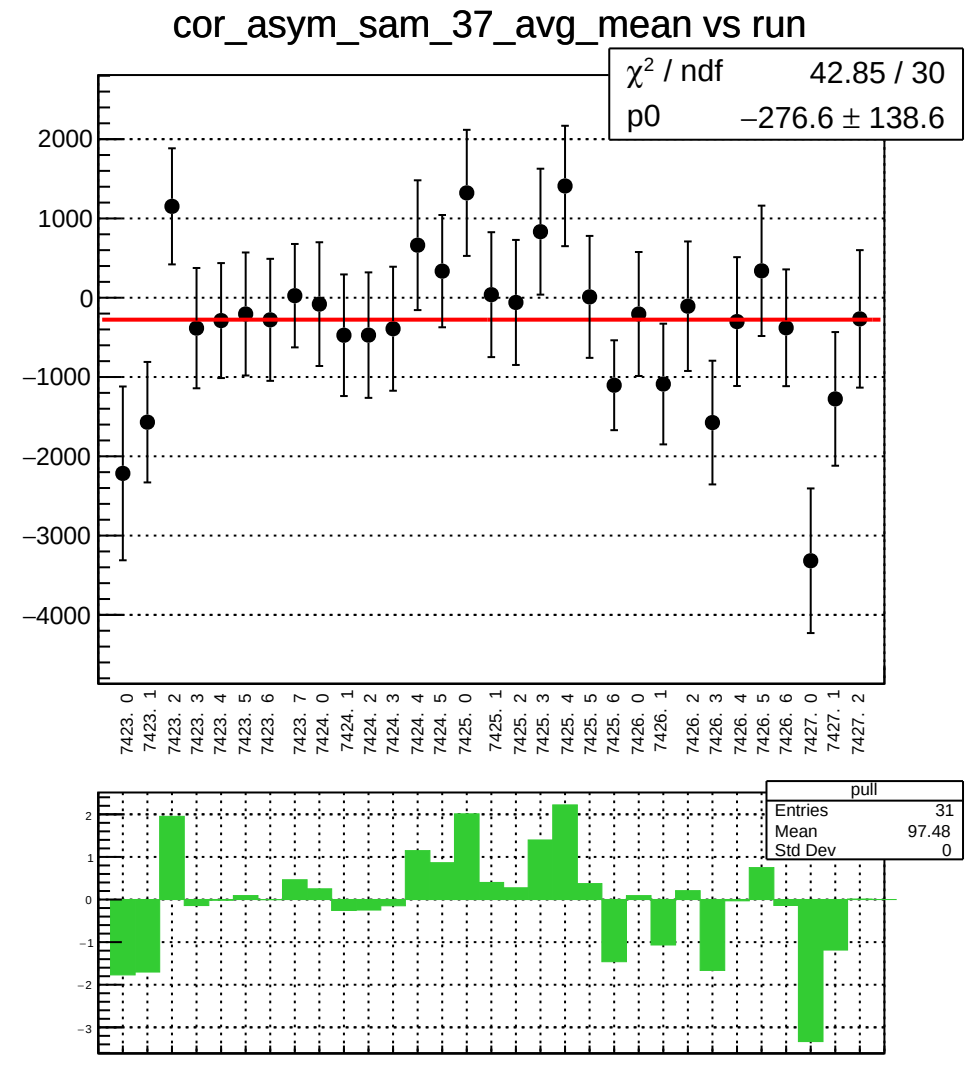

pull1D
Entries 31
Mean −0.02091
Std Dev 1.175

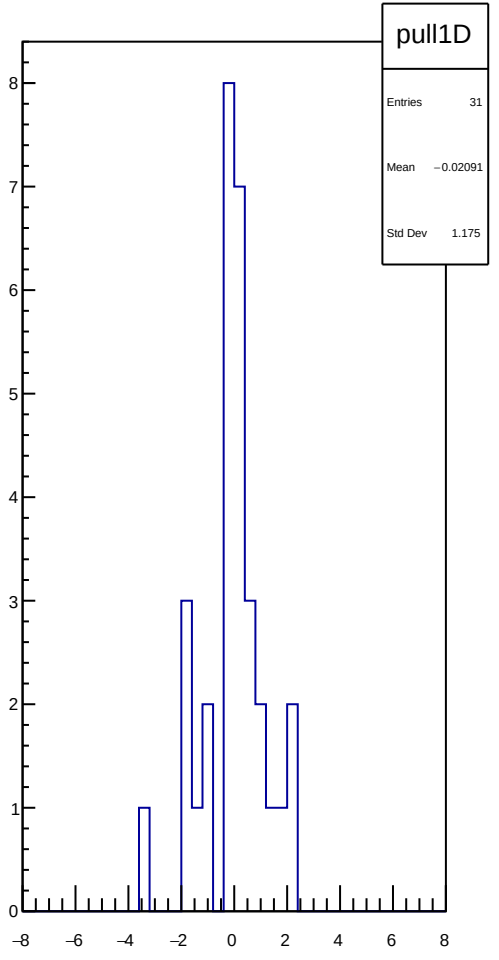

reg_asym_sam_37_avg_rms vs run
χ² / ndf 3113 / 30
p0 75.44 ± 0.09802
105
100
95
90
85
80
75
70
65
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

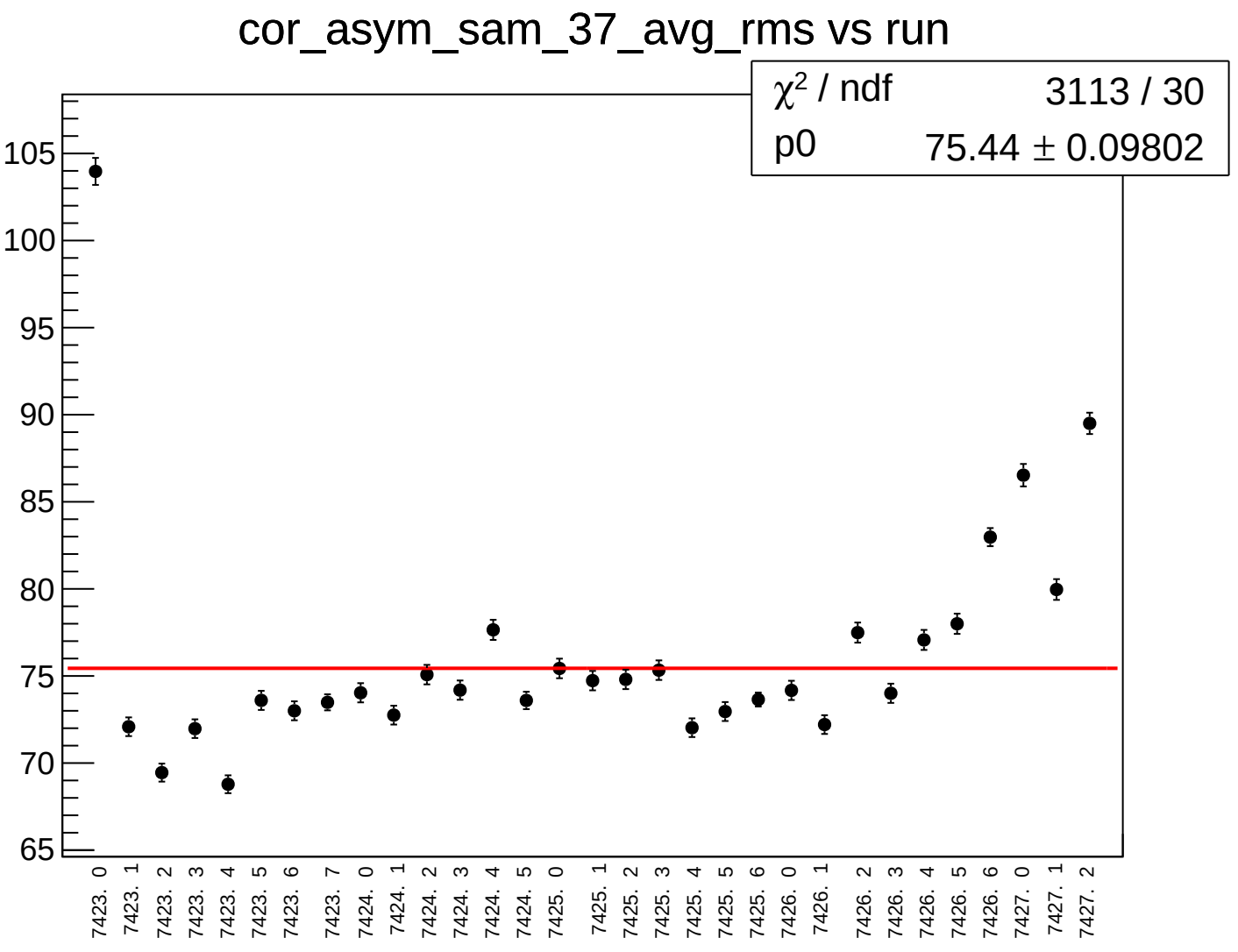

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 45.31 / 30
p0 1573 ± 989.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 156.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

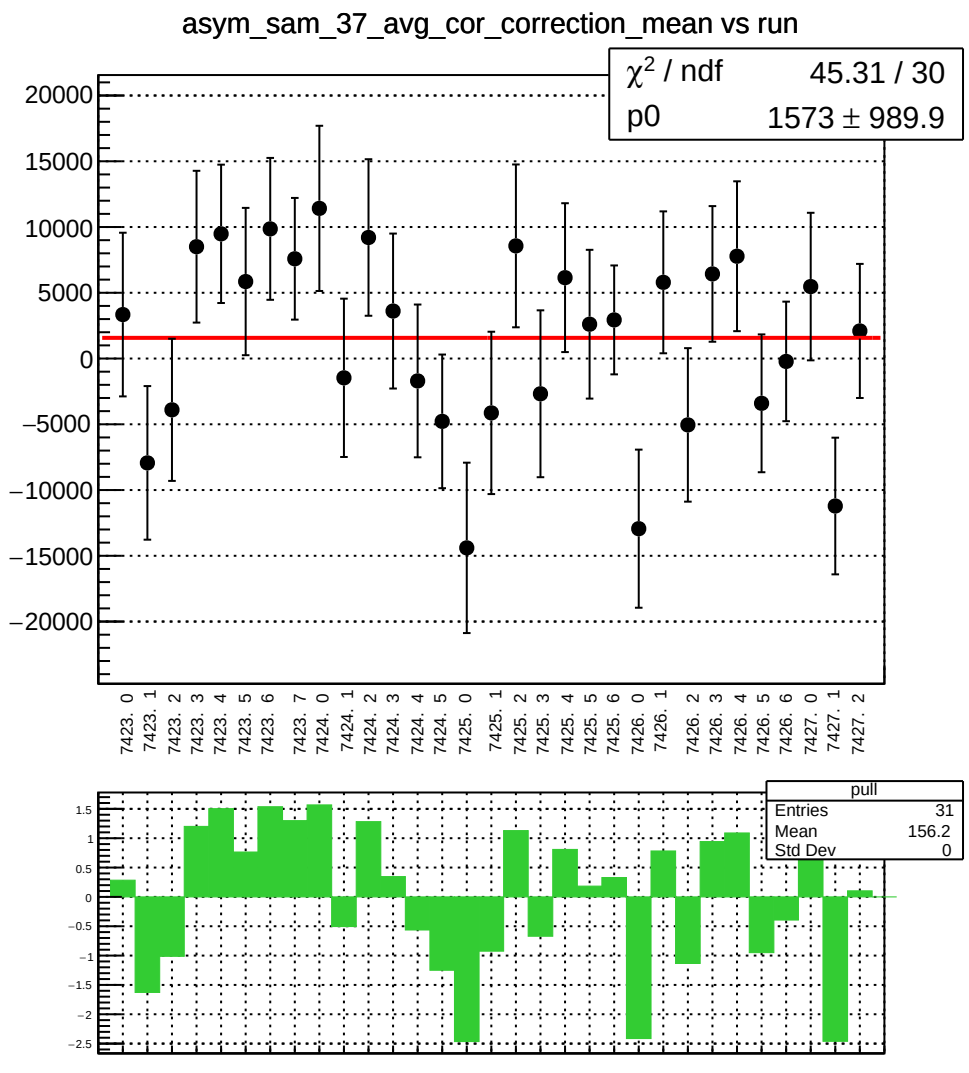

pull1D
Entries 31
Mean −0.01682
Std Dev 1.209
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

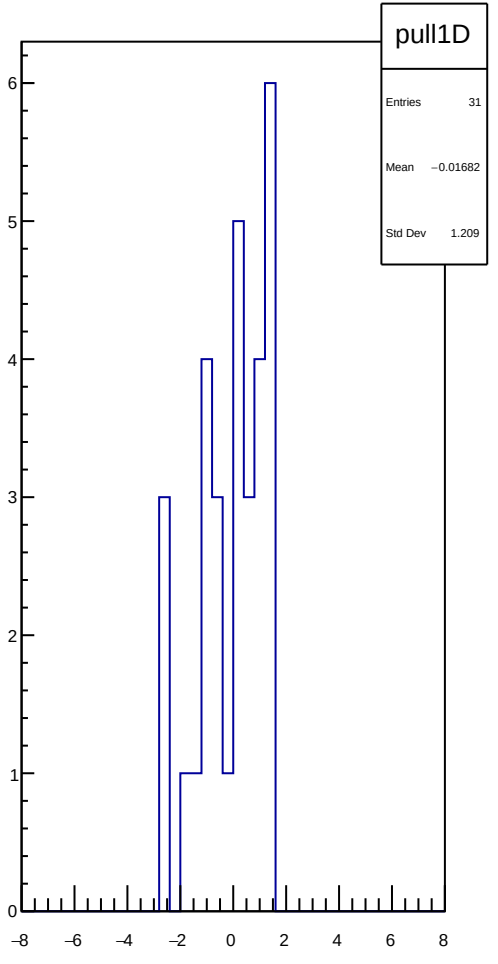

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2077 / 30
p0 539.2 ± 0.7
620
600
580
560
540
520
500
480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

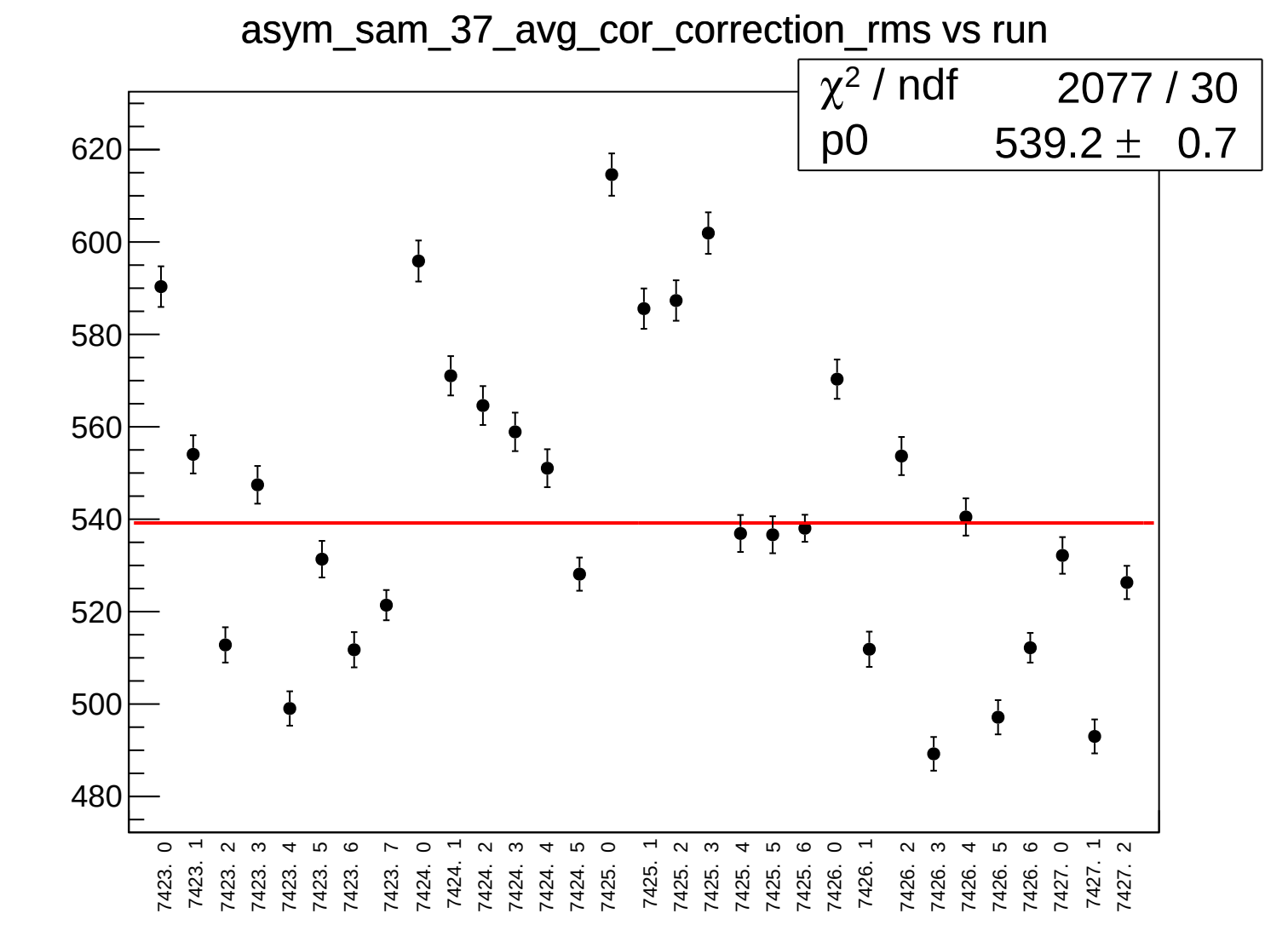

cor_asym_sam_37_avg_mean vs run
χ² / ndf 42.85 / 30
p0 −276.6 ± 138.6
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 97.48
Std Dev 0

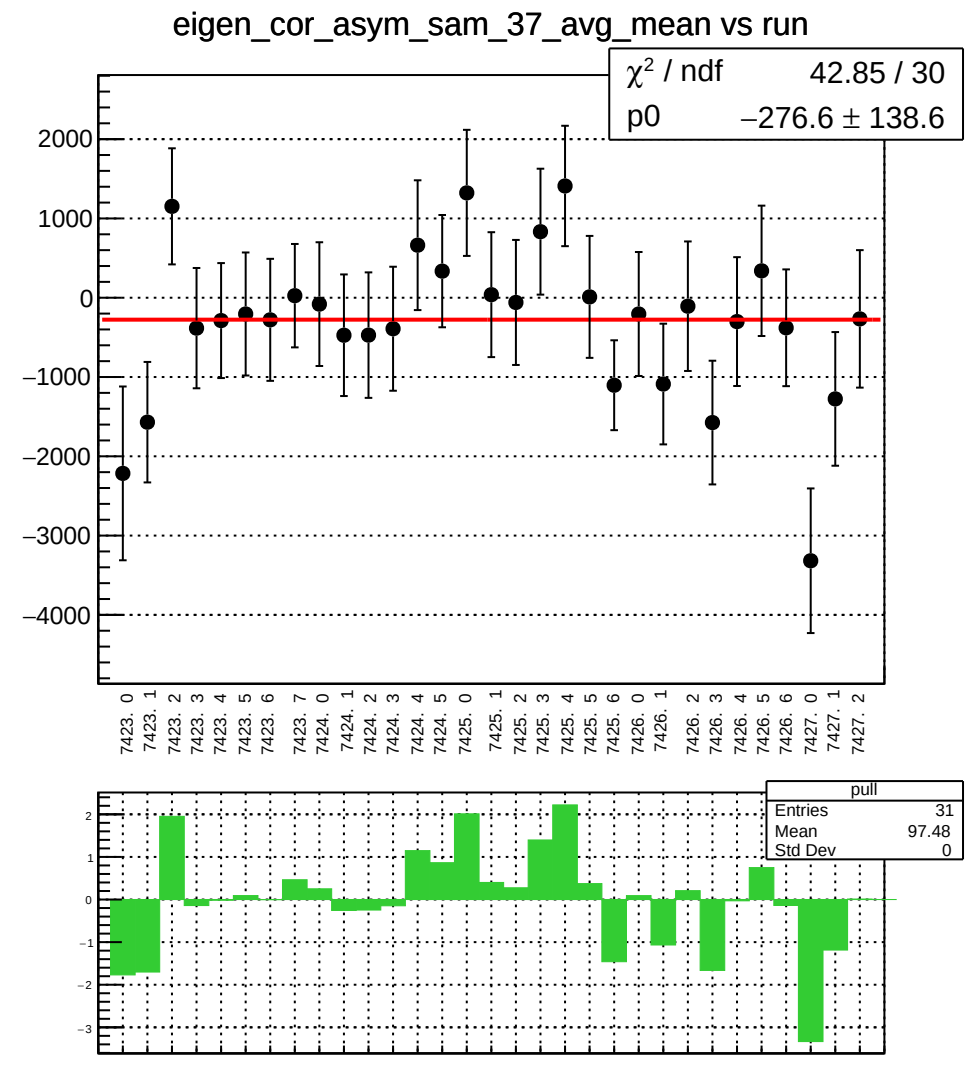

pull1D
Entries 31
Mean −0.02091
Std Dev 1.175

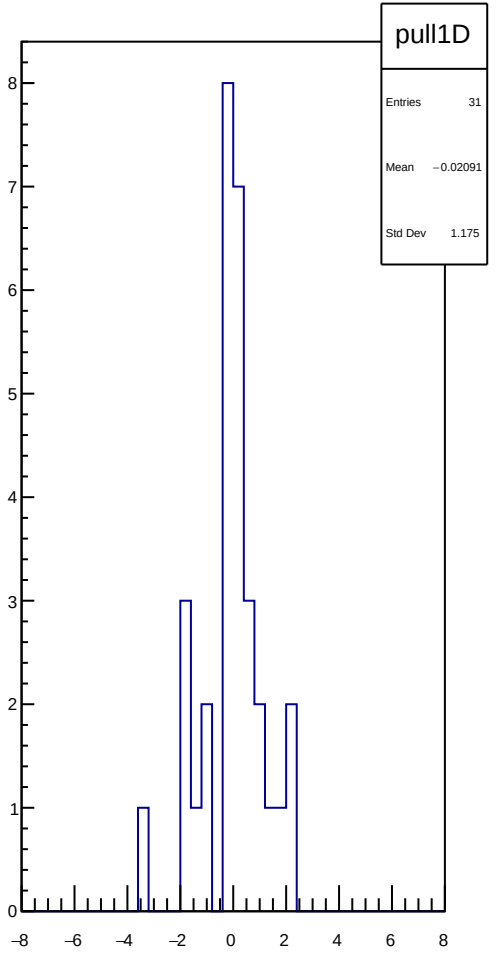

cor_asym_sam_37_avg_rms vs run
χ² / ndf 3113 / 30
p0 75.44 ± 0.09802
105
100
95
90
85
80
75
70
65
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

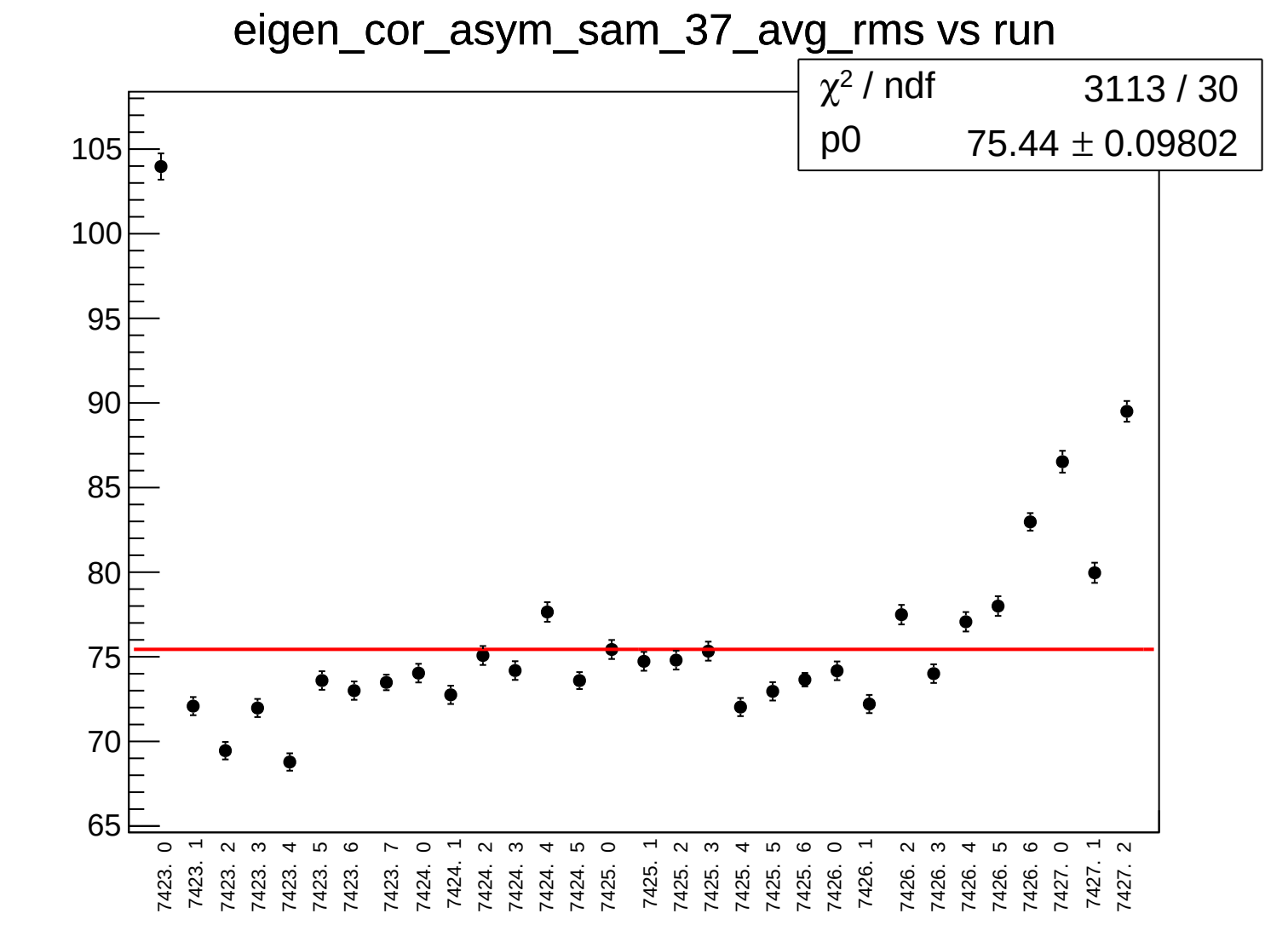

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 45.31 / 30
p0 1573 ± 989.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 156.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

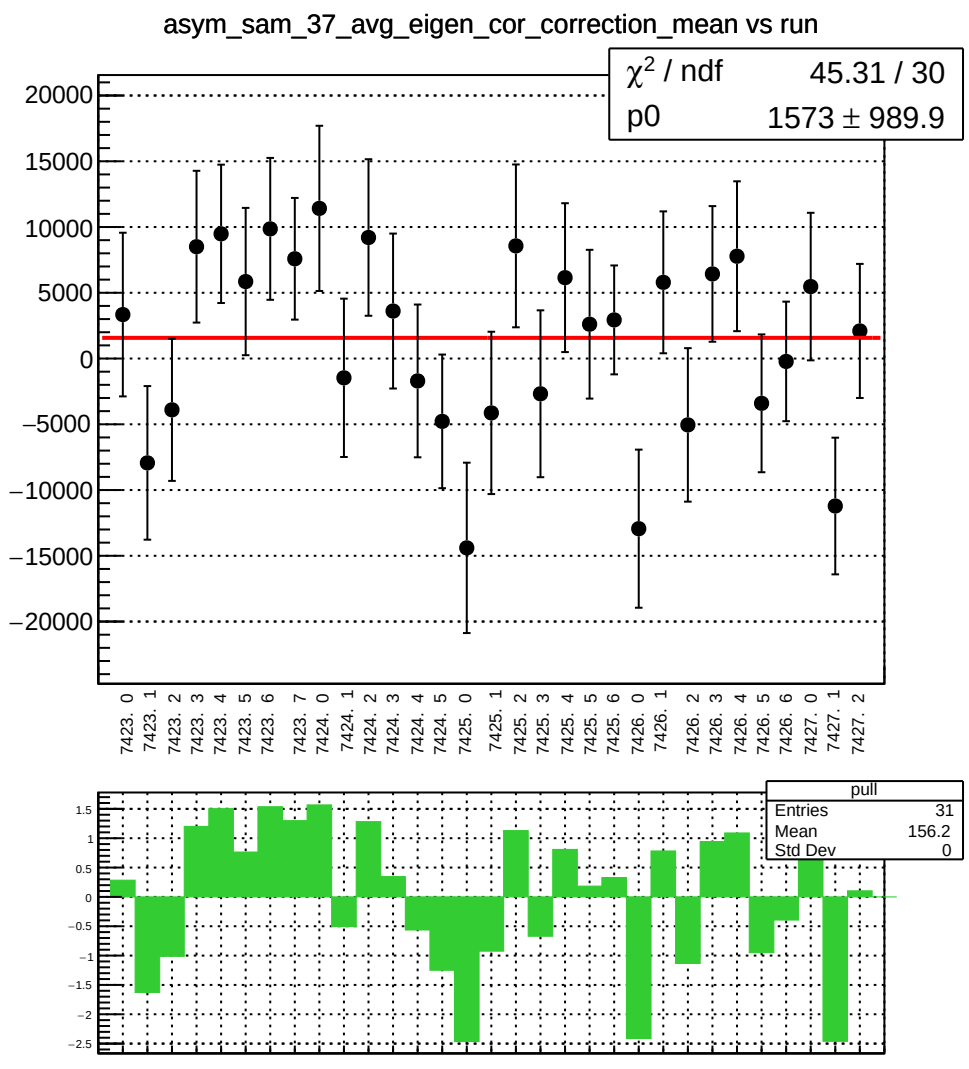

pull1D
Entries 31
Mean −0.01682
Std Dev 1.209
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

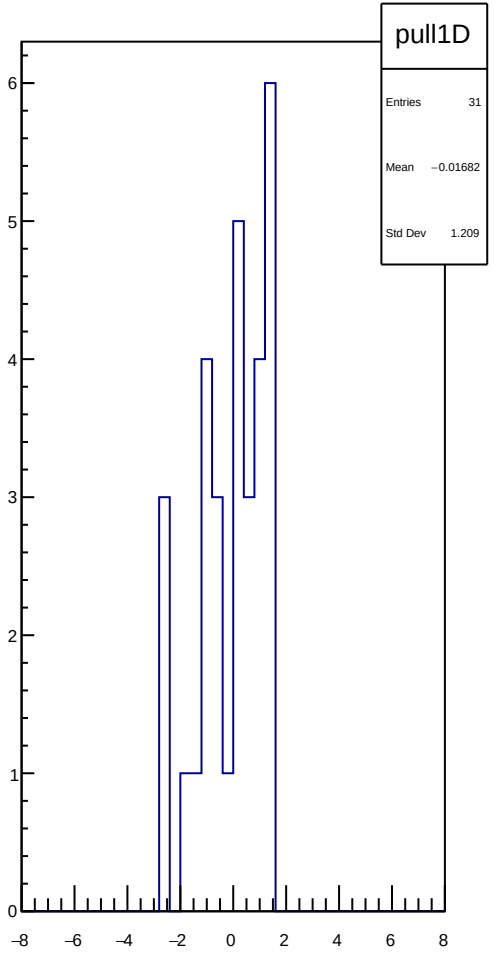

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2077 / 30
p0 539.2 ± 0.7
620
600
580
560
540
520
500
480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

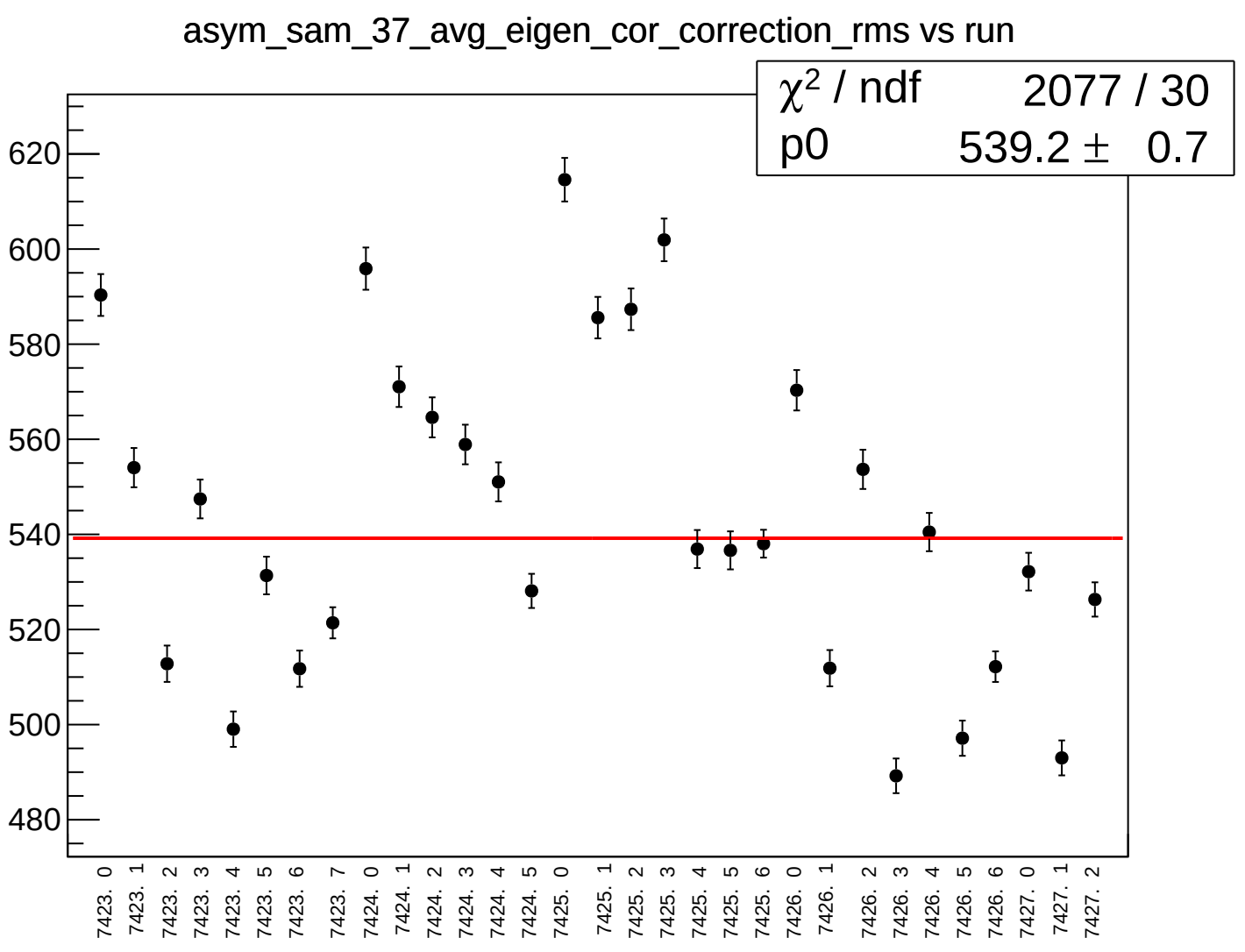

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 42.85 / 30
p0 −276.6 ± 138.6
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 97.48
Std Dev 0

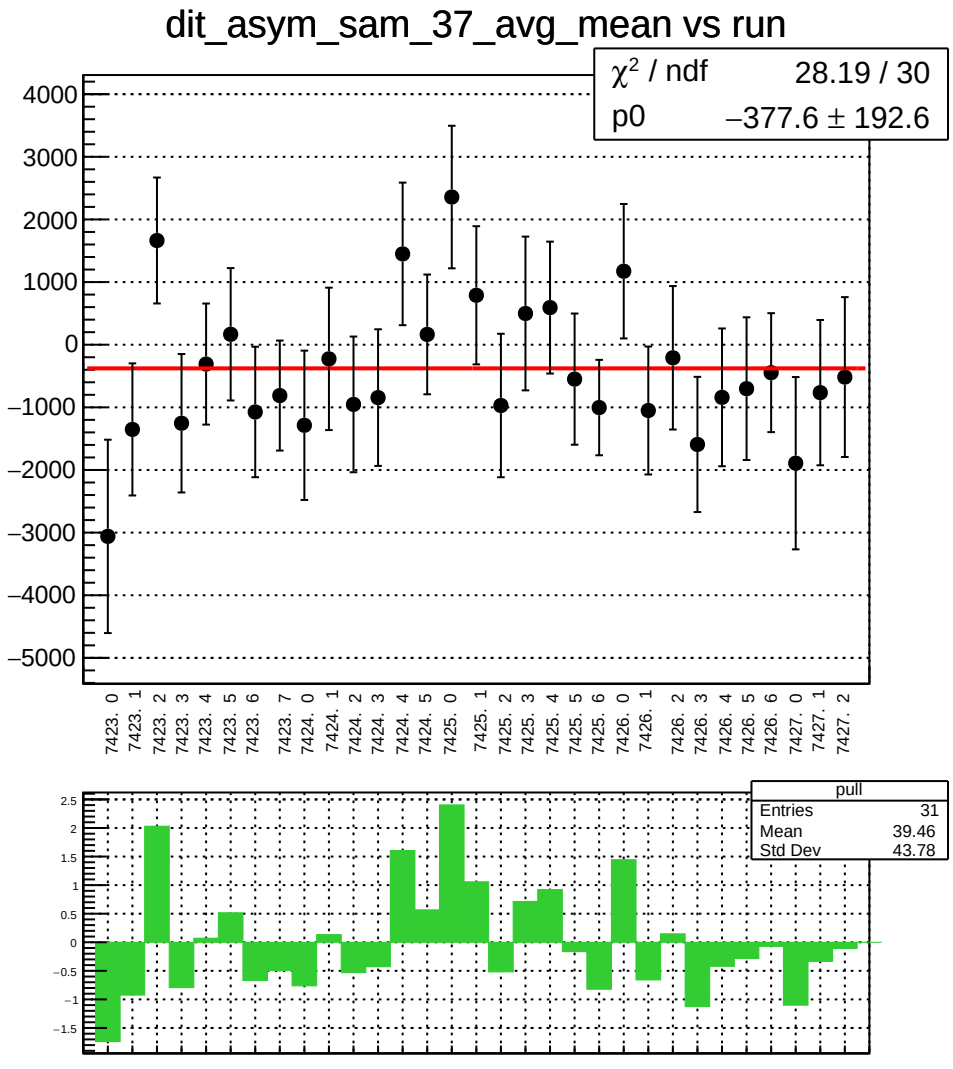

pull1D
Entries 31
Mean −0.02091
Std Dev 1.175

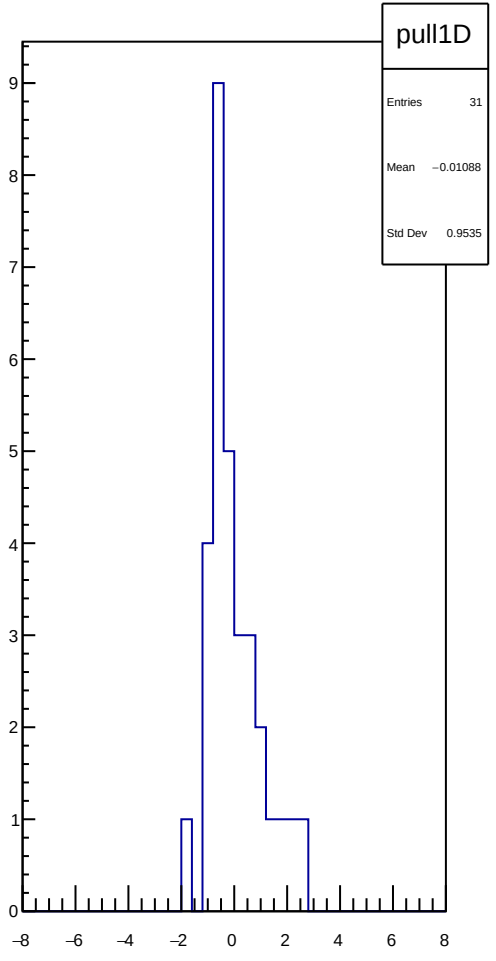

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 3113 / 30
p0 75.44 ± 0.09802
105
100
95
90
85
80
75
70
65
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

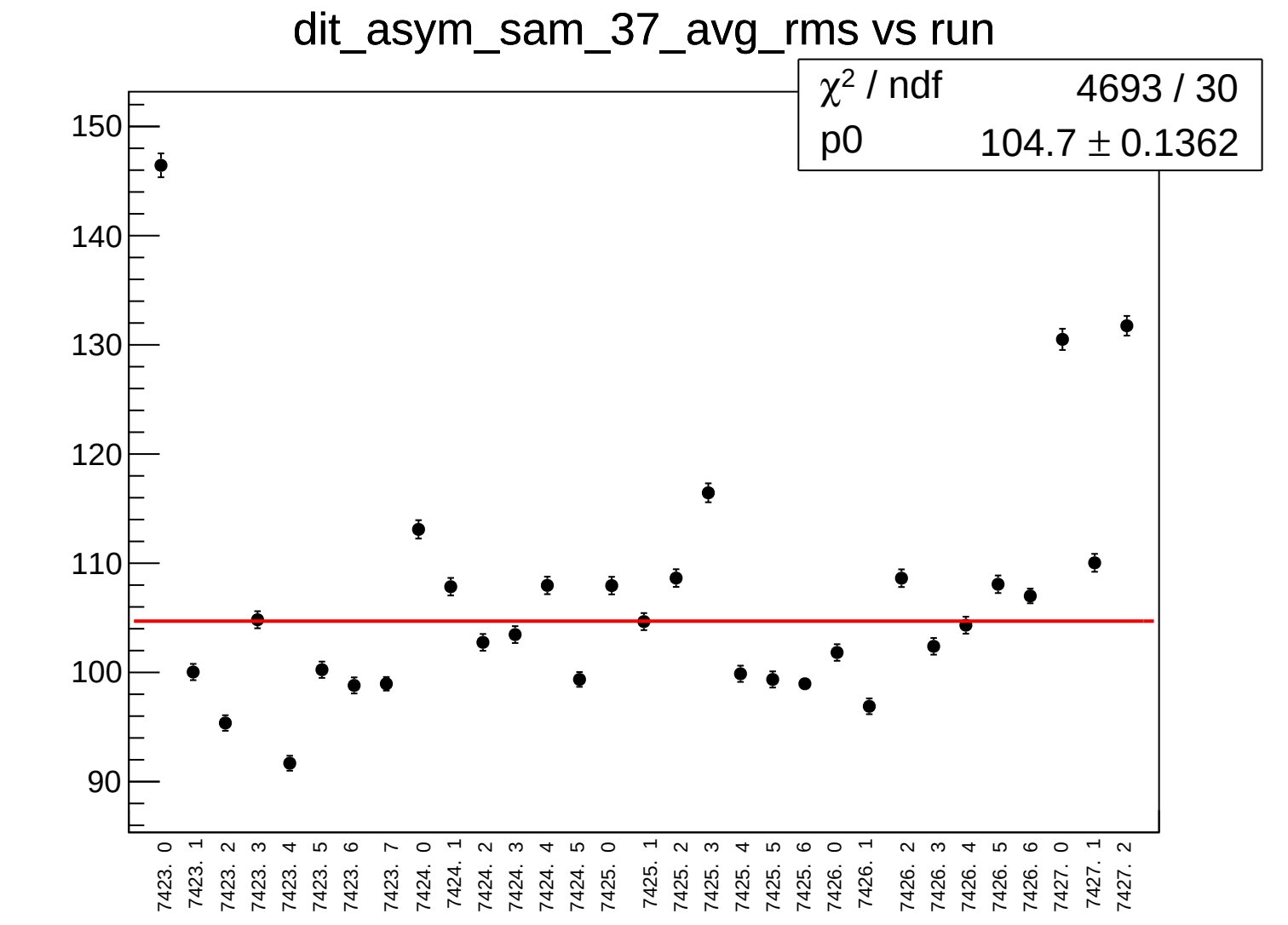

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 45.31 / 30
p0 1573 ± 989.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 156.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

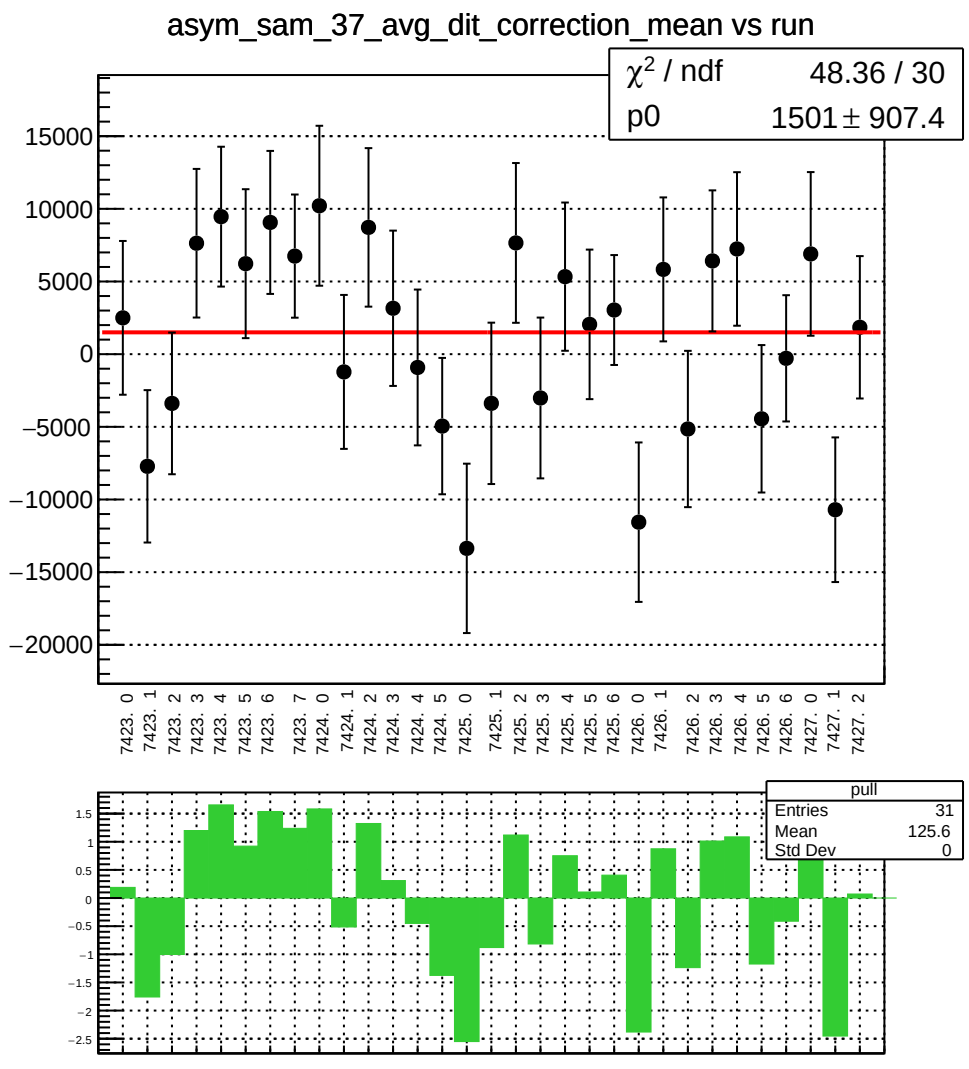

pull1D
Entries 31
Mean −0.01682
Std Dev 1.209
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

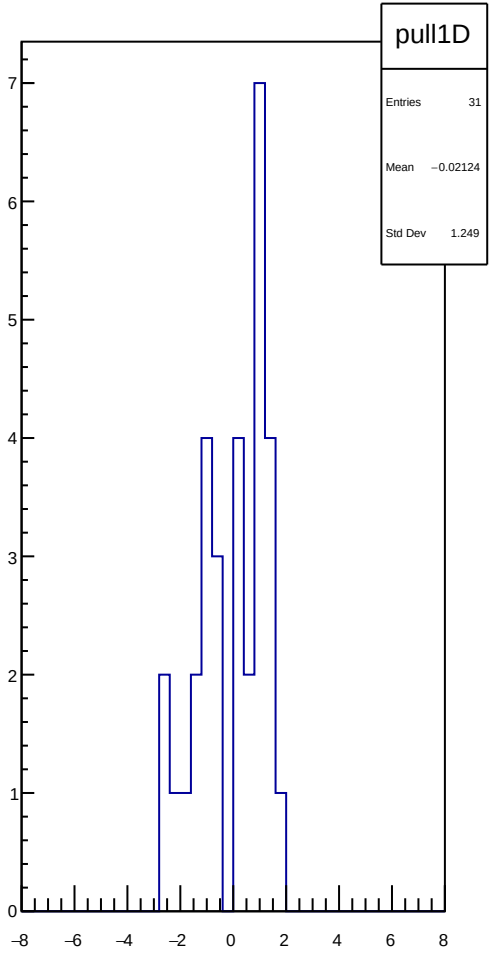

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2077 / 30
p0 539.2 ± 0.7
620
600
580
560
540
520
500
480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

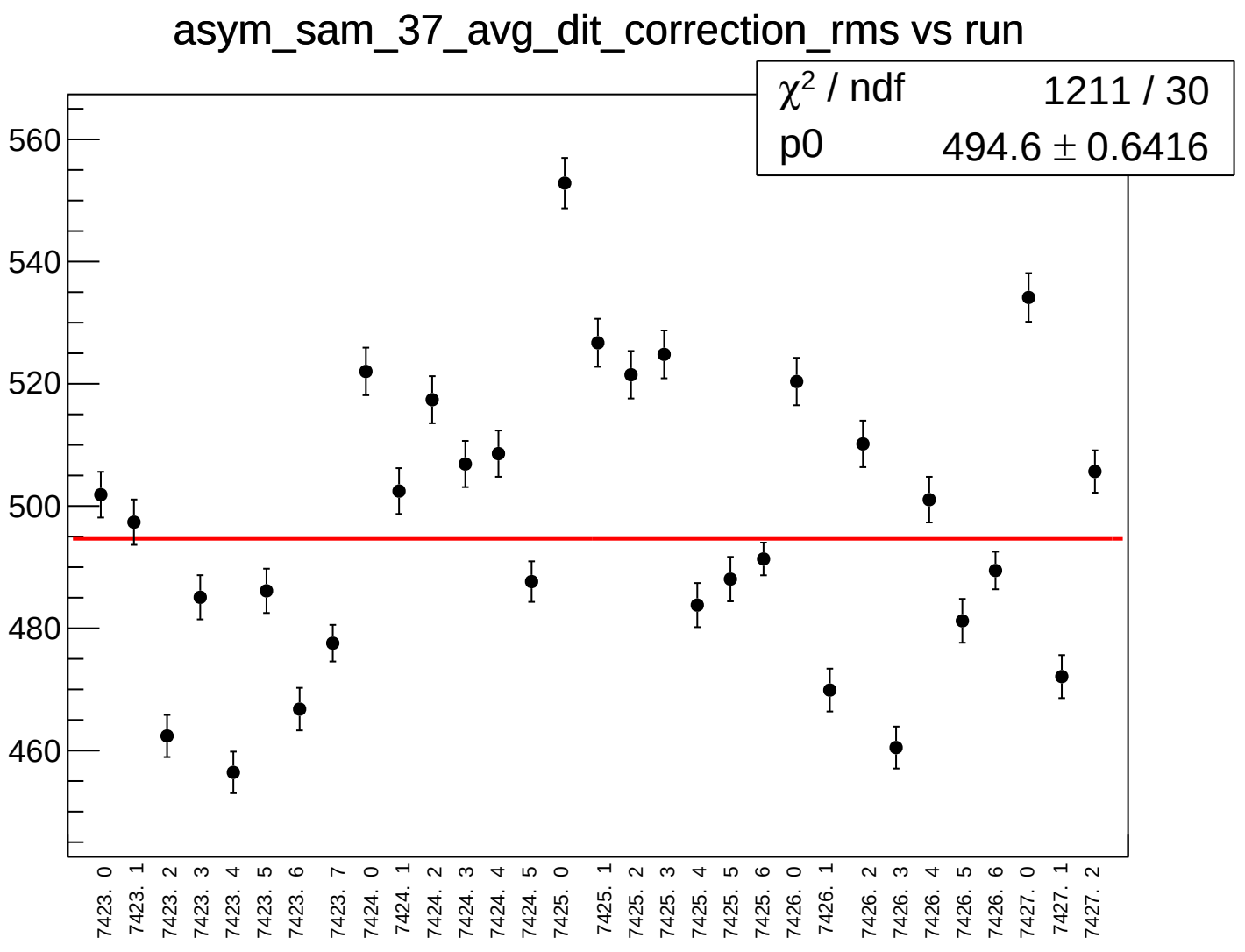

dit_asym_sam_37_avg_mean vs run
χ² / ndf 28.19 / 30
p0 −377.6 ± 192.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 39.46
Std Dev 43.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

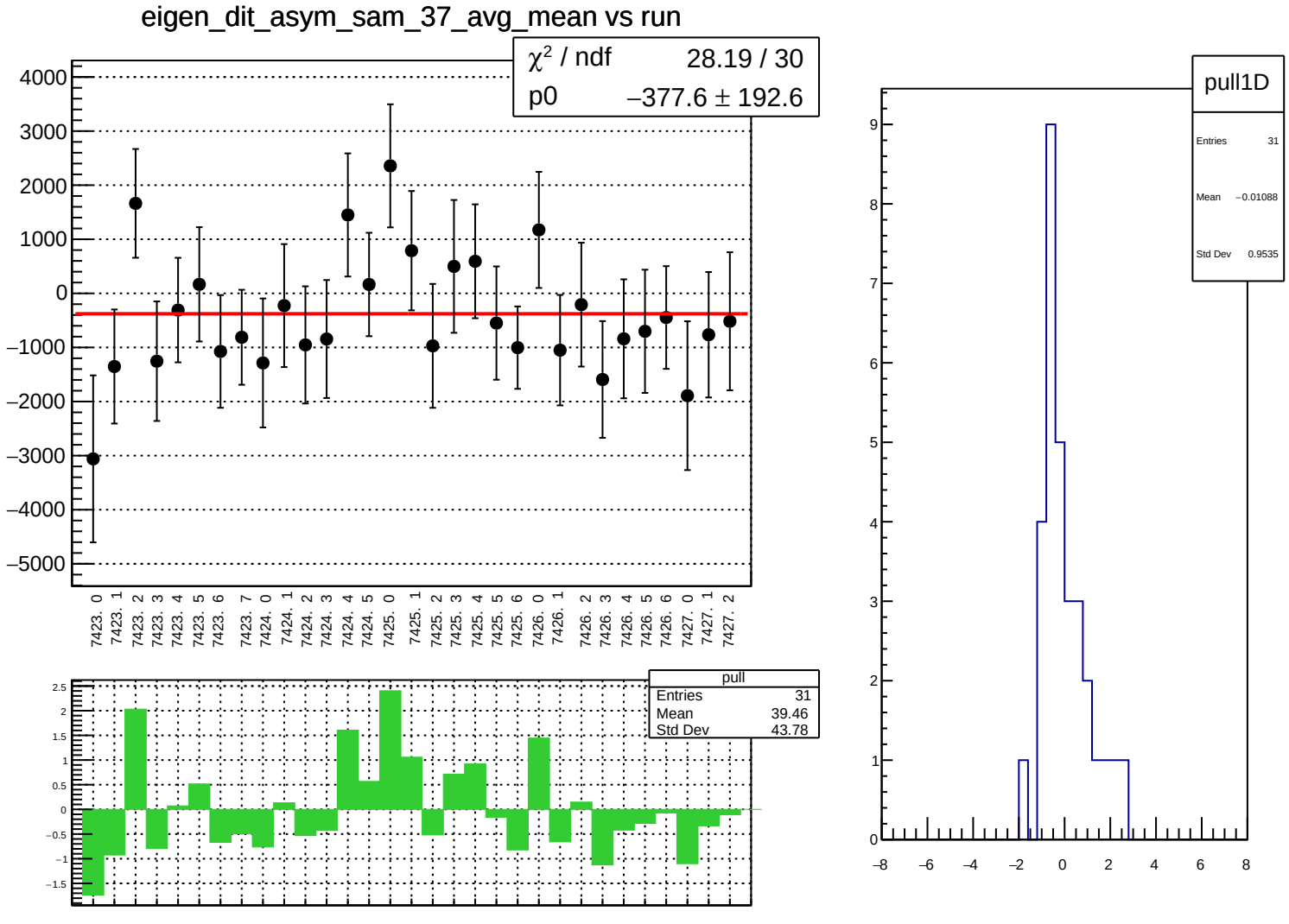

pull1D
Entries 31
Mean −0.01088
Std Dev 0.9535
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

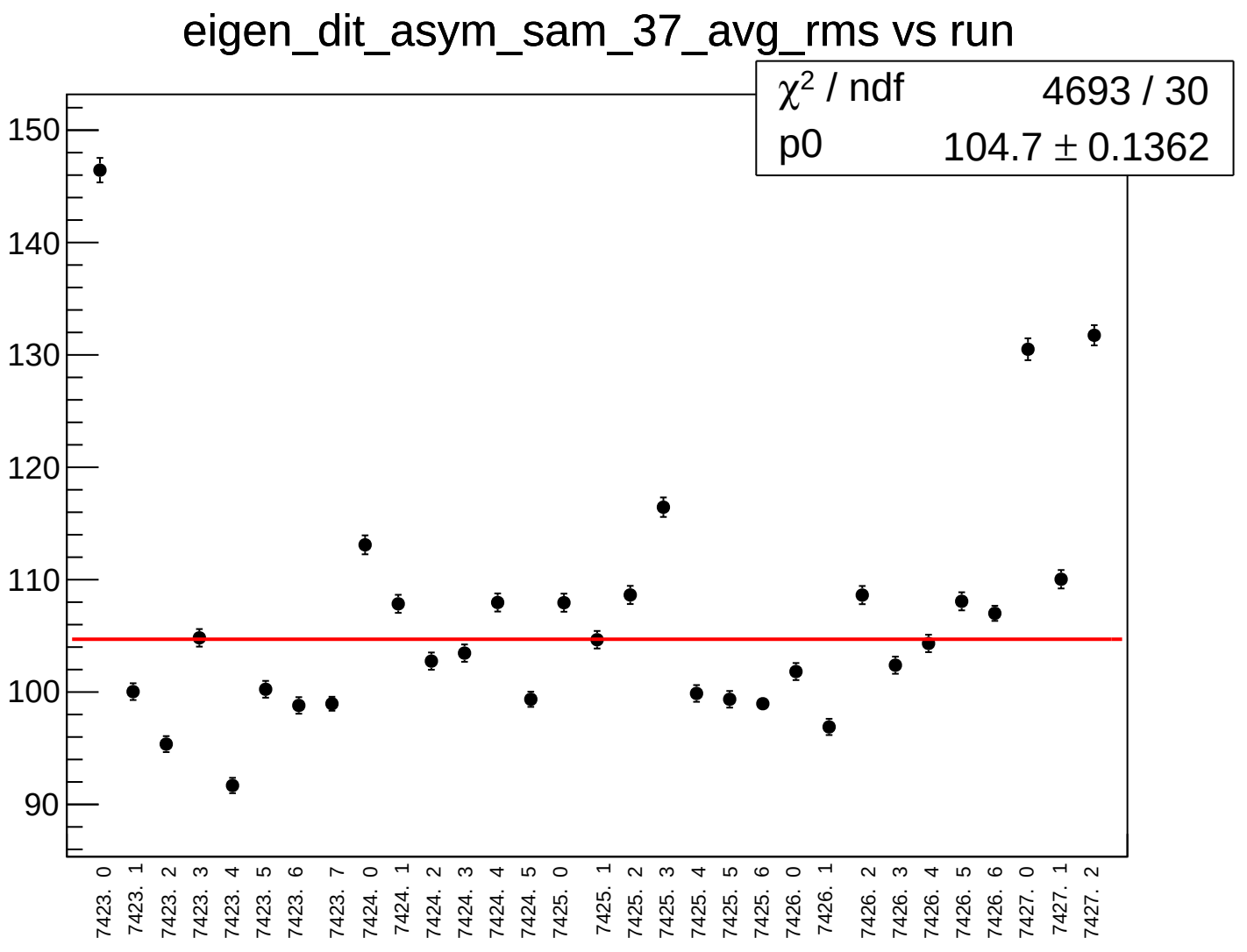

dit_asym_sam_37_avg_rms vs run
χ² / ndf 4693 / 30
p0 104.7 ± 0.1362
150
140
130
120
110
100
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

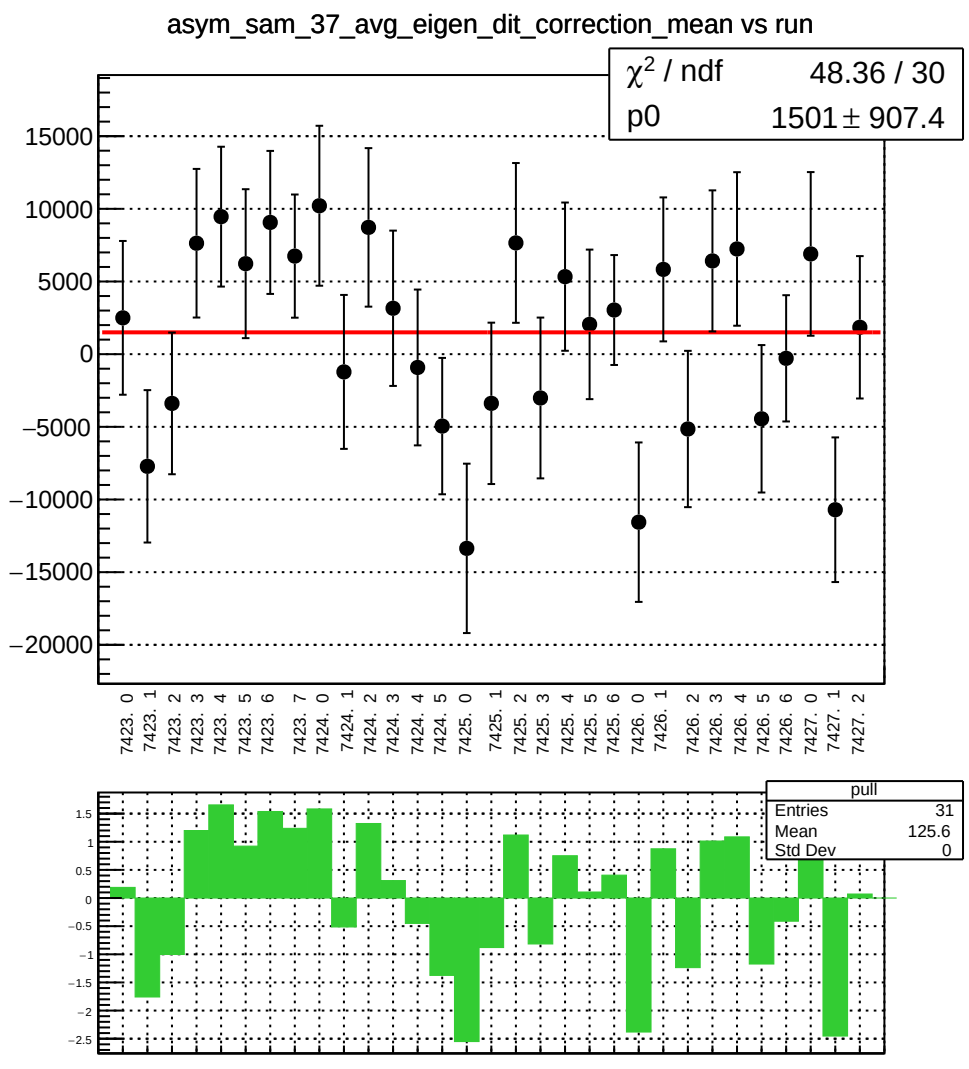

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 48.36 / 30
p0 1501 ± 907.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 125.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

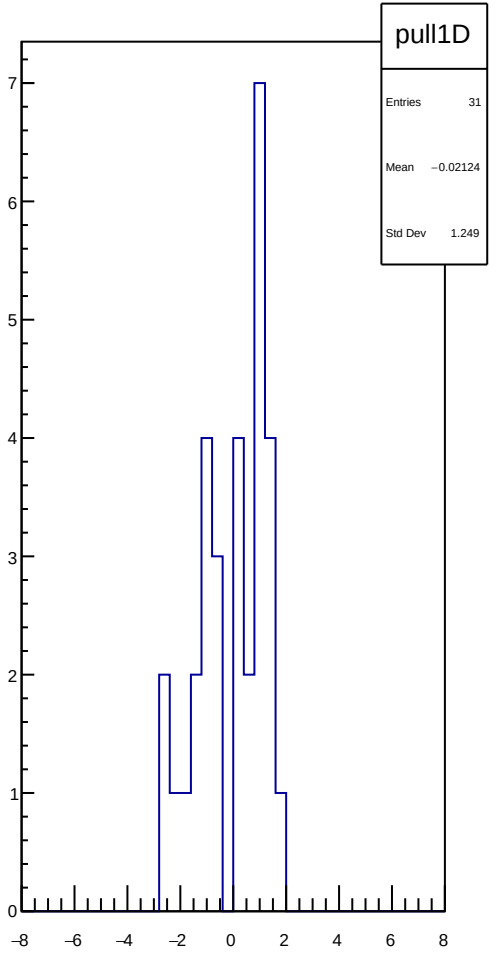

pull1D
Entries 31
Mean −0.02124
Std Dev 1.249
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

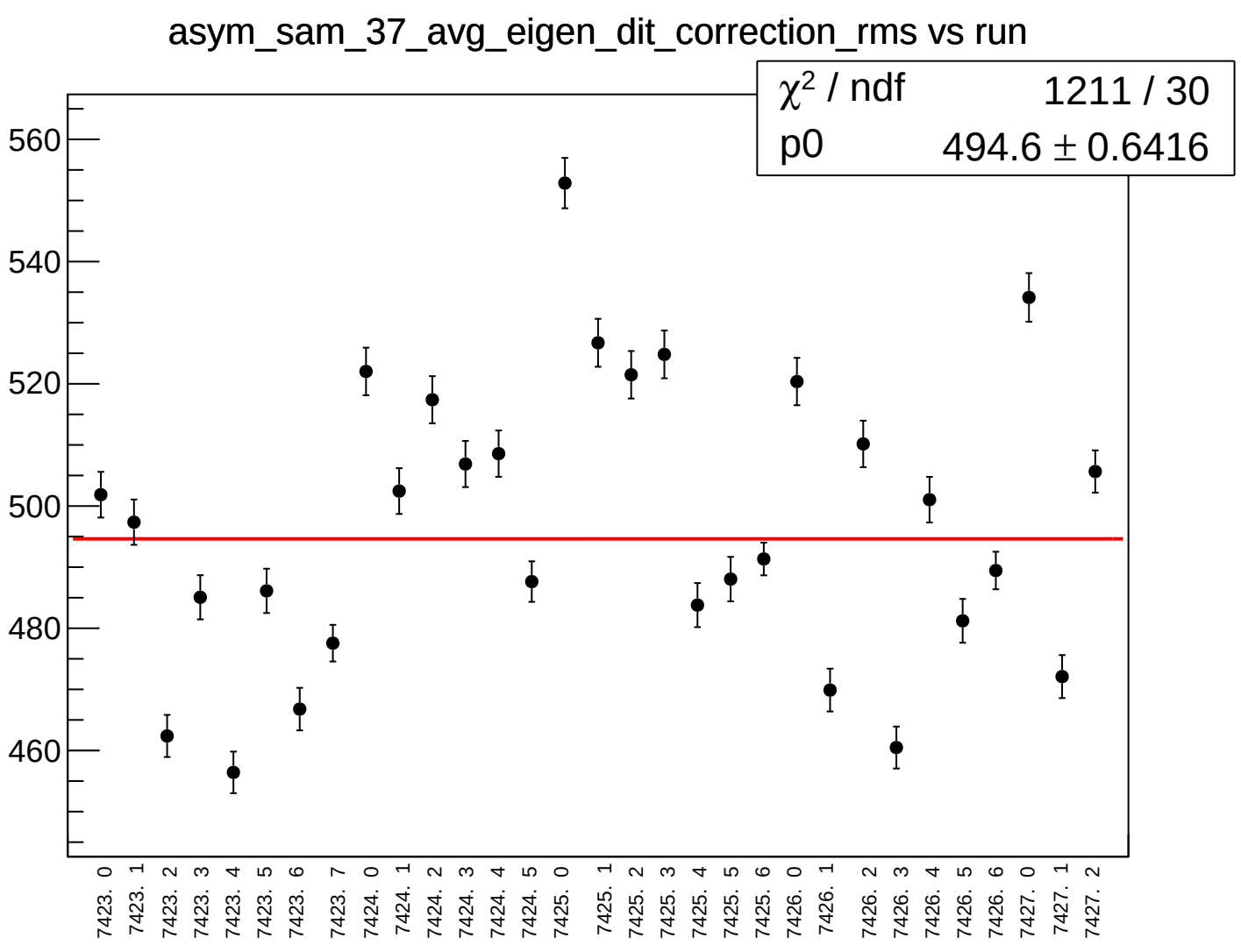

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1211 / 30
p0 494.6 ± 0.6416
560
540
520
500
480
460
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

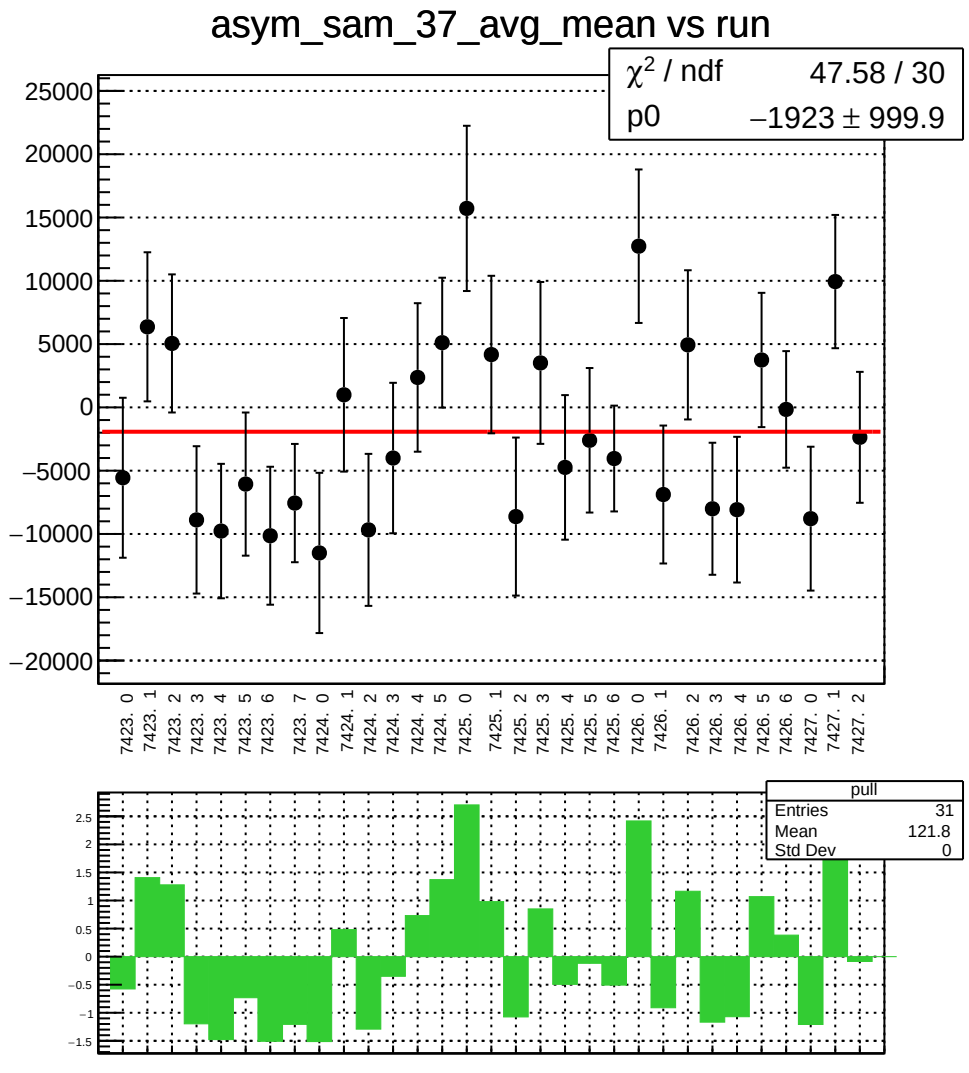

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 28.19 / 30
p0 −377.6 ± 192.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 39.46
Std Dev 43.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01088
Std Dev 0.9535
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

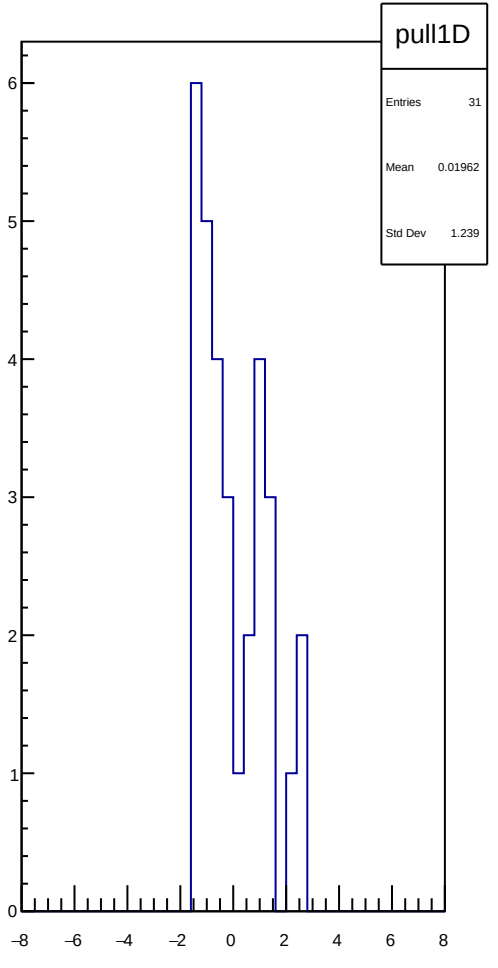

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 4693 / 30
p0 104.7 ± 0.1362
150
140
130
120
110
100
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

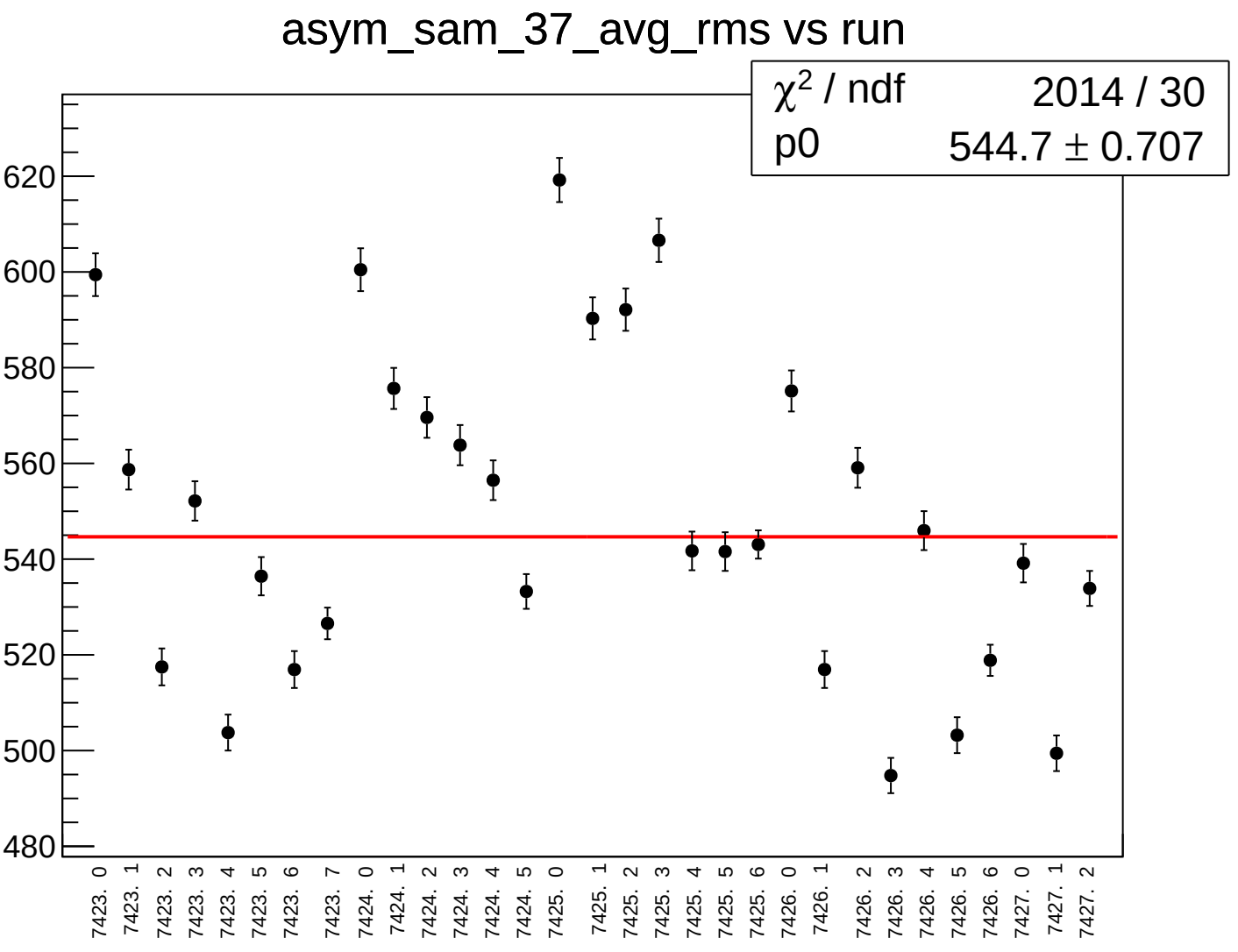

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 48.36 / 30
p0 1501 ± 907.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 125.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

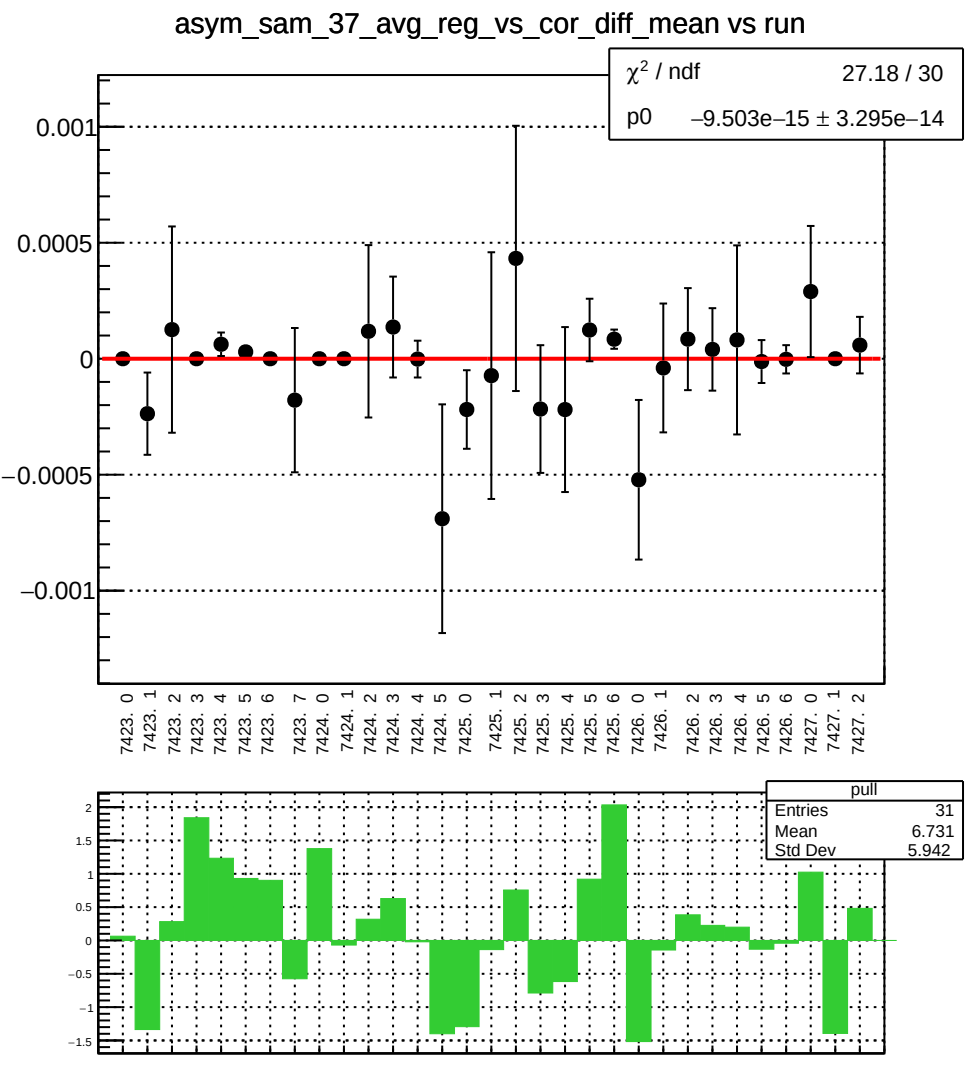

pull1D
Entries 31
Mean −0.02124
Std Dev 1.249
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

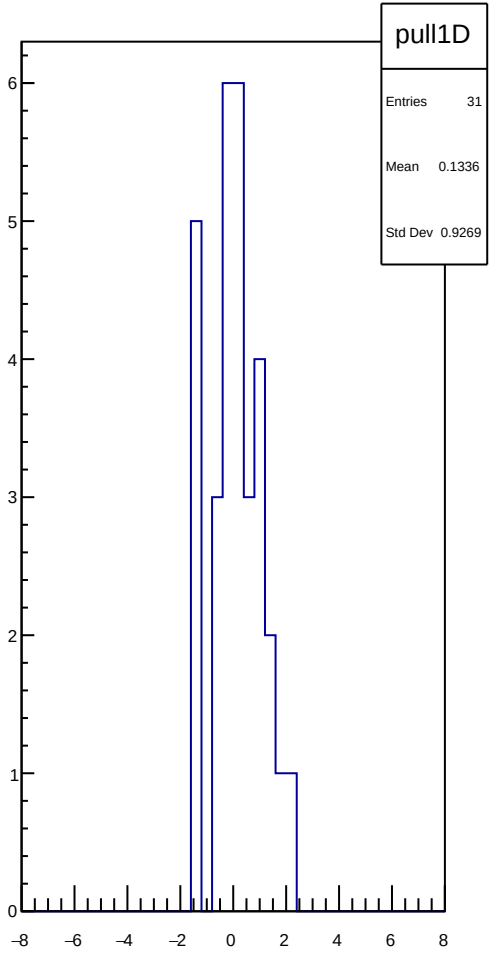

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1211 / 30
p0 494.6 ± 0.6416
560
540
520
500
480
460
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

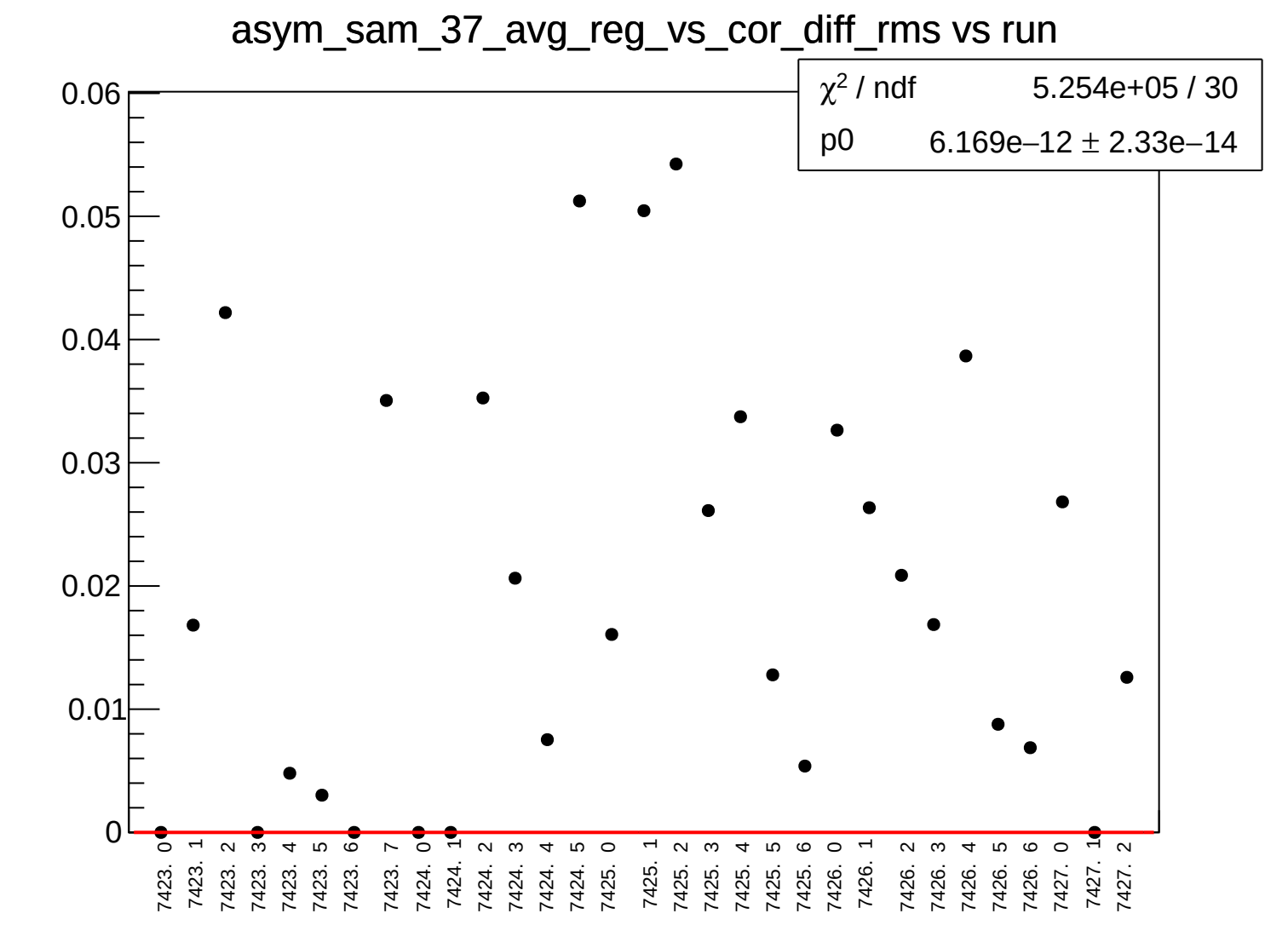

asym_sam_37_avg_mean vs run
χ² / ndf 47.58 / 30
p0 −1923 ± 999.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 121.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

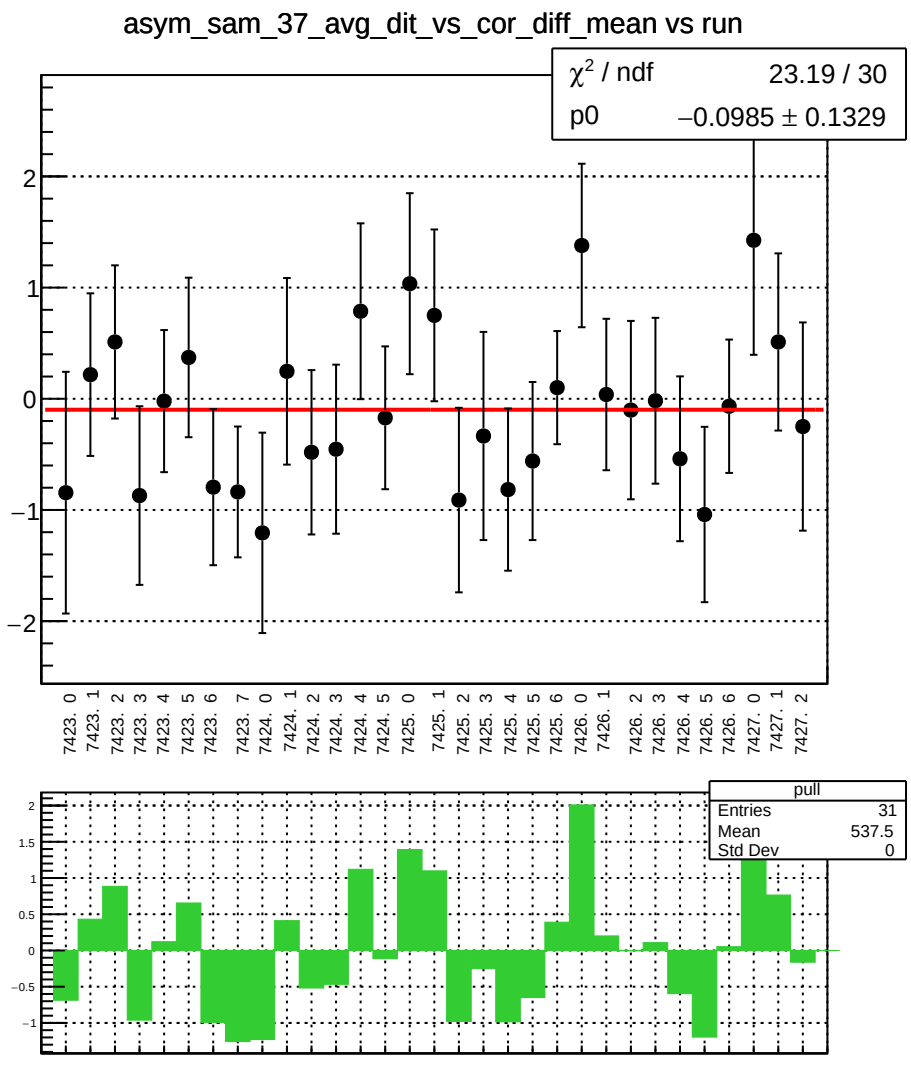

pull1D
Entries 31
Mean 0.01962
Std Dev 1.239
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

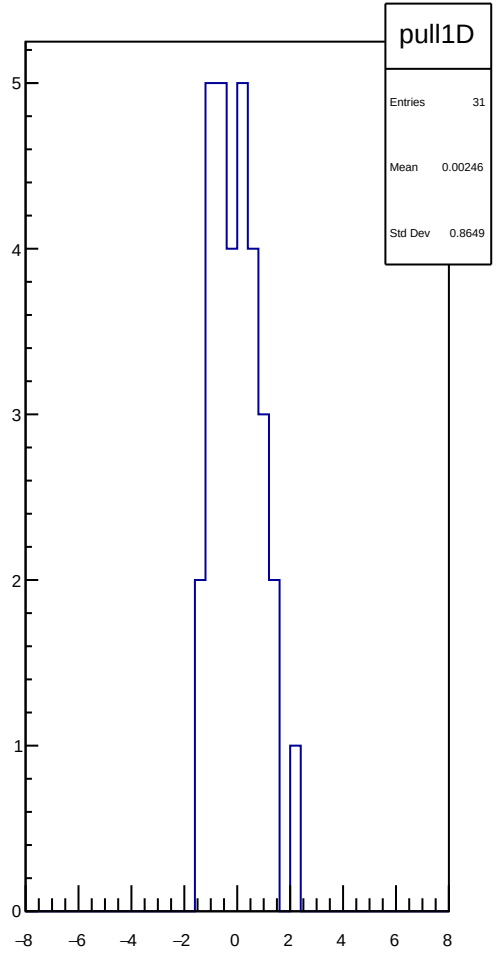

asym_sam_37_avg_rms vs run
χ² / ndf 2014 / 30
p0 544.7 ± 0.707
620
600
580
560
540
520
500
480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

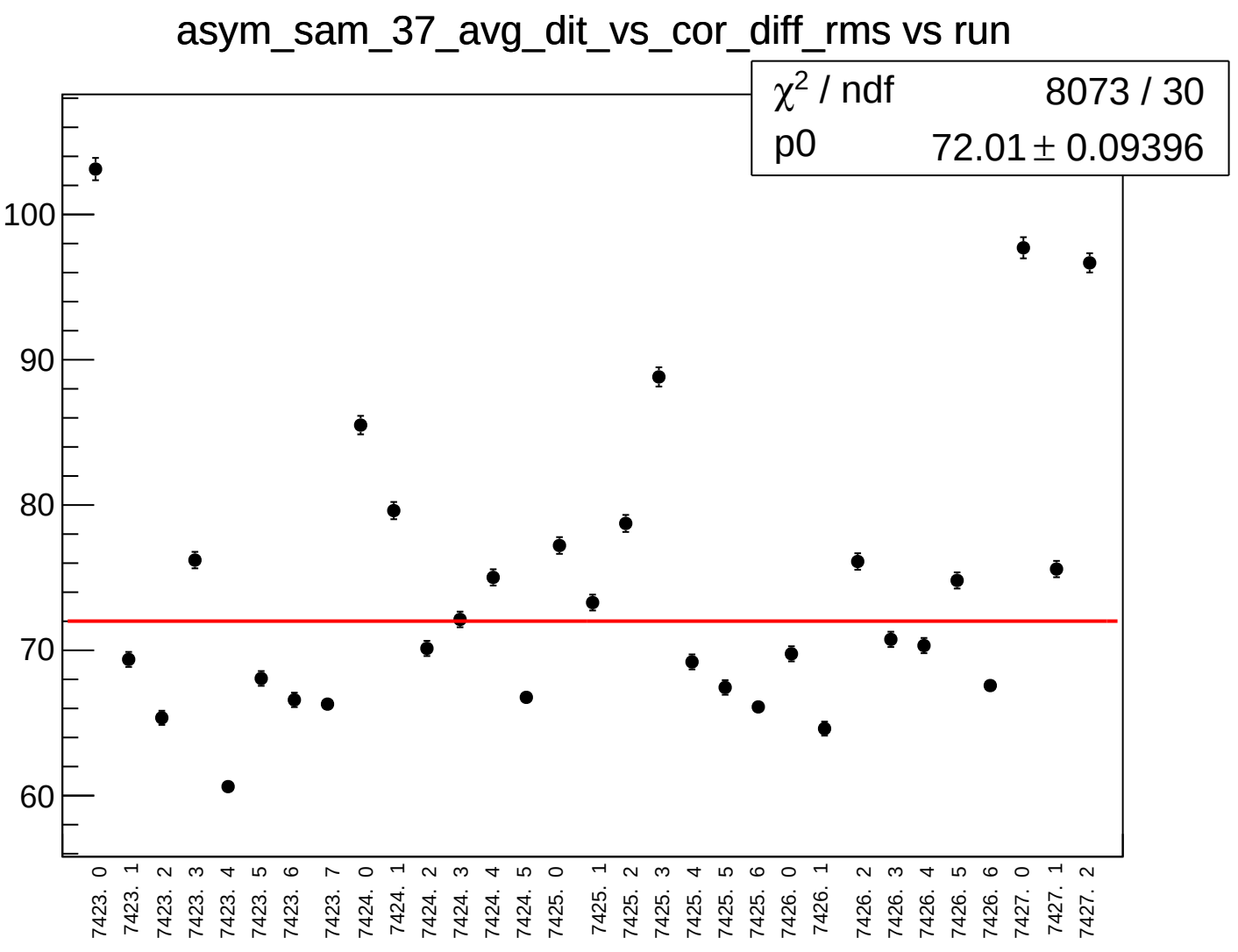

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.18 / 30
p0 −9.503e−15 ± 3.295e−14
0.001
0.0005
0
−0.0005
−0.001
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 6.731
Std Dev 5.942
2
1.5
1
0.5
0
−0.5
−1
−1.5

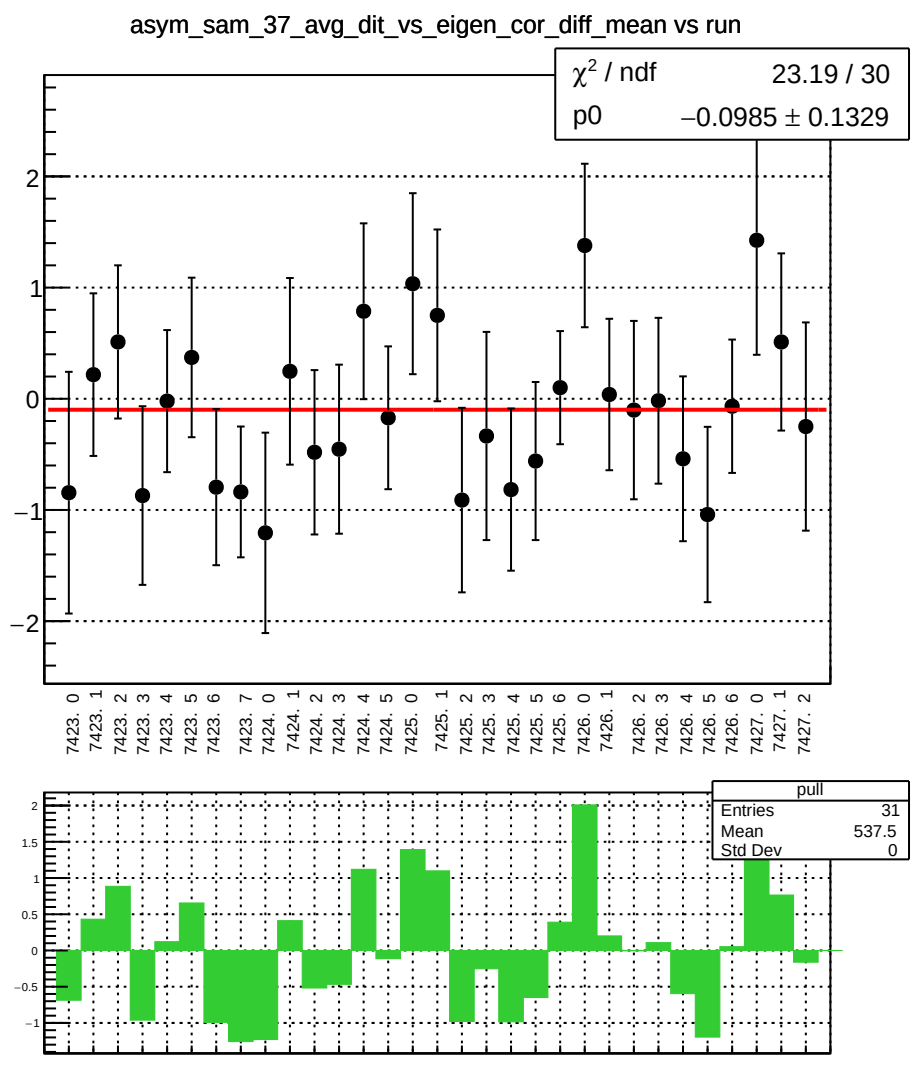

pull1D
Entries 31
Mean 0.1336
Std Dev 0.9269
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

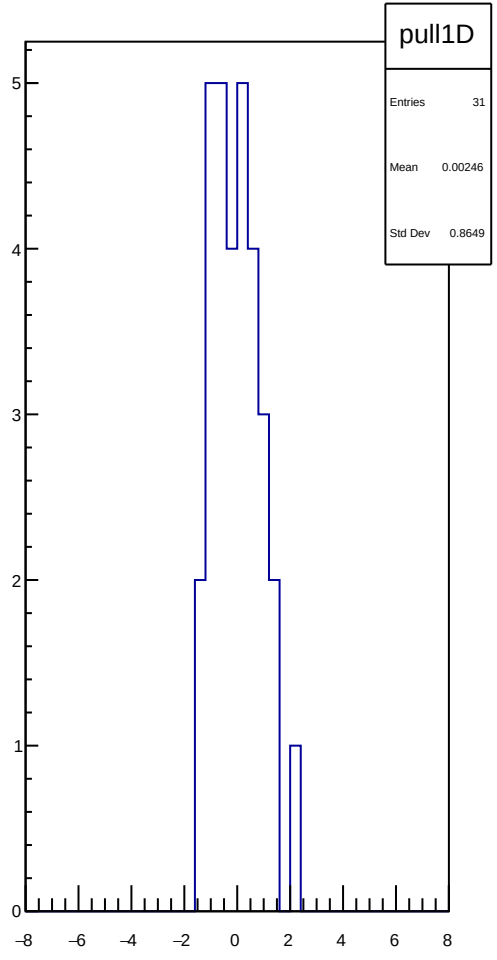

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.254e+05 / 30
p0 6.169e−12 ± 2.33e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

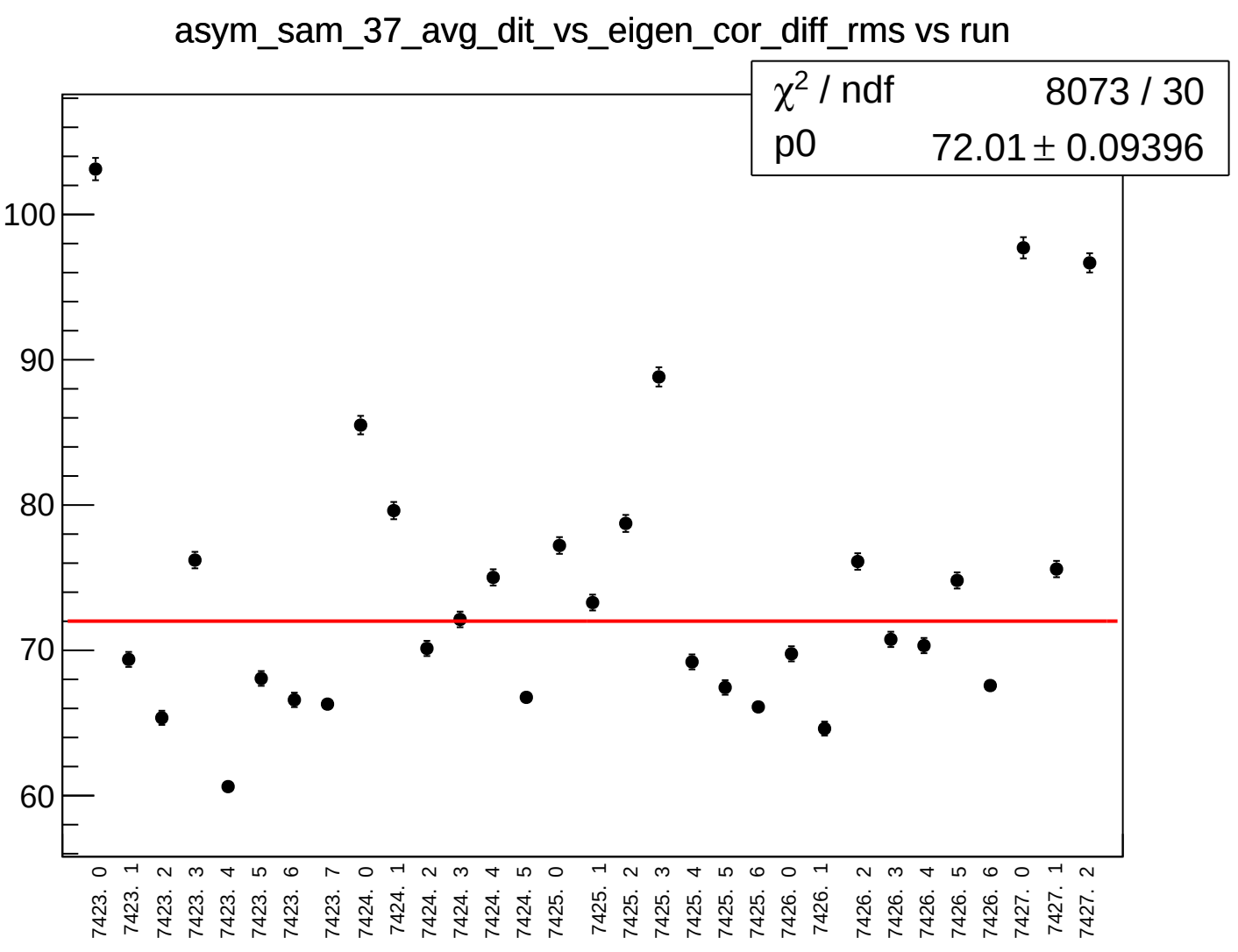

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 23.19 / 30
p0 −0.0985 ± 0.1329
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 537.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

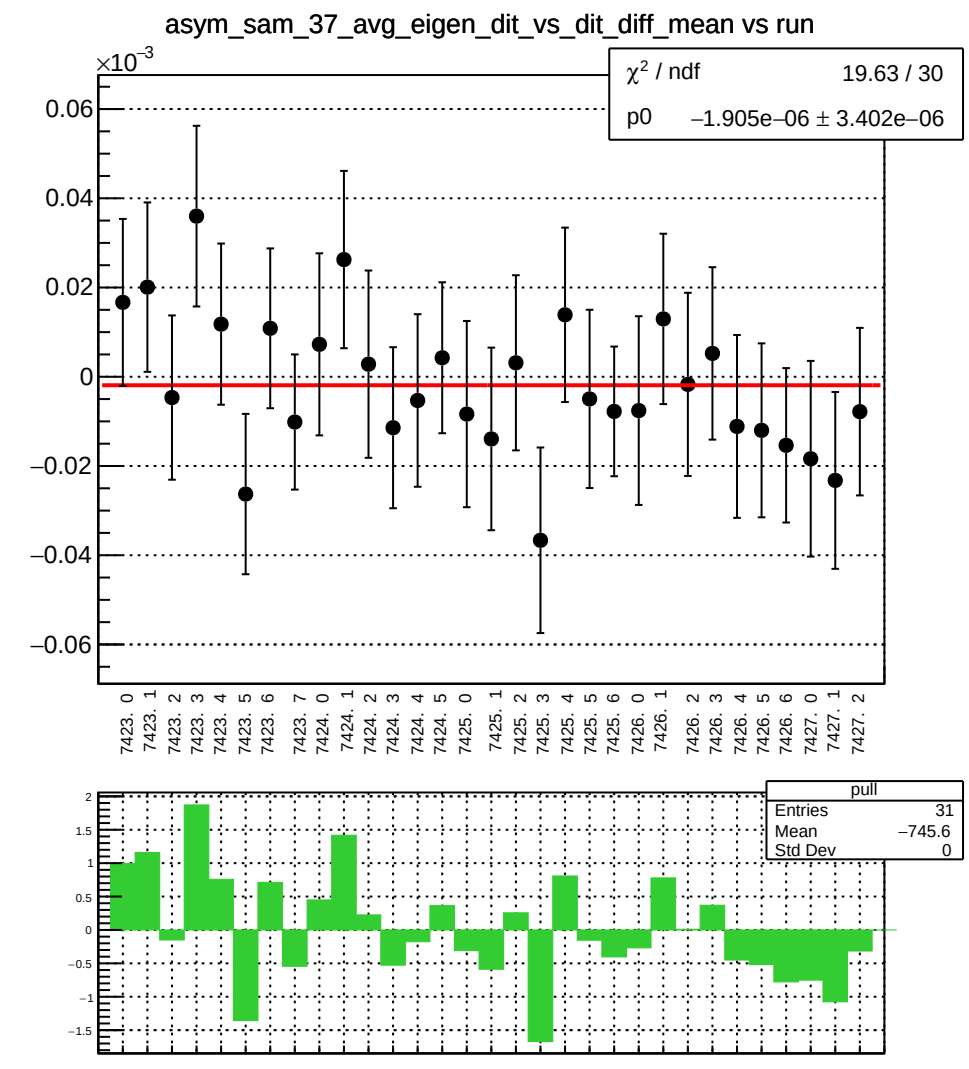

pull1D
Entries 31
Mean 0.00246
Std Dev 0.8649
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

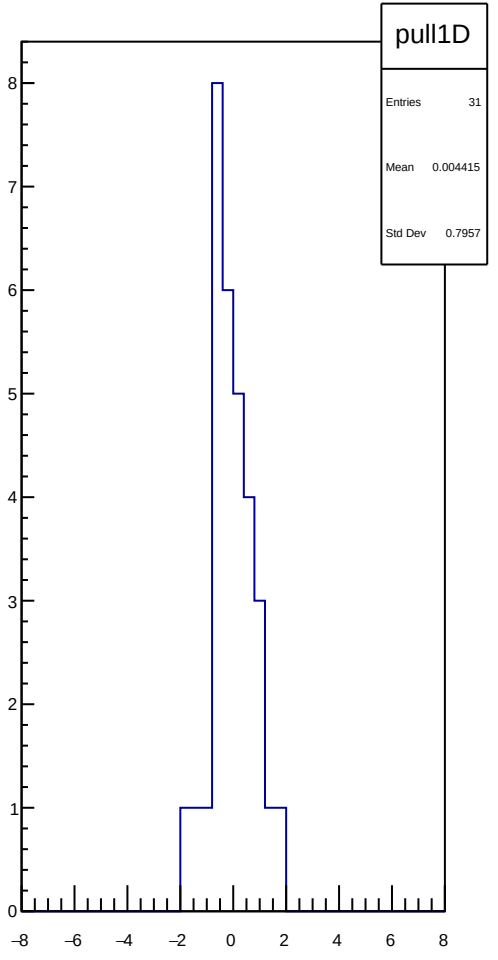

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8073 / 30
p0 72.01 ± 0.09396
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

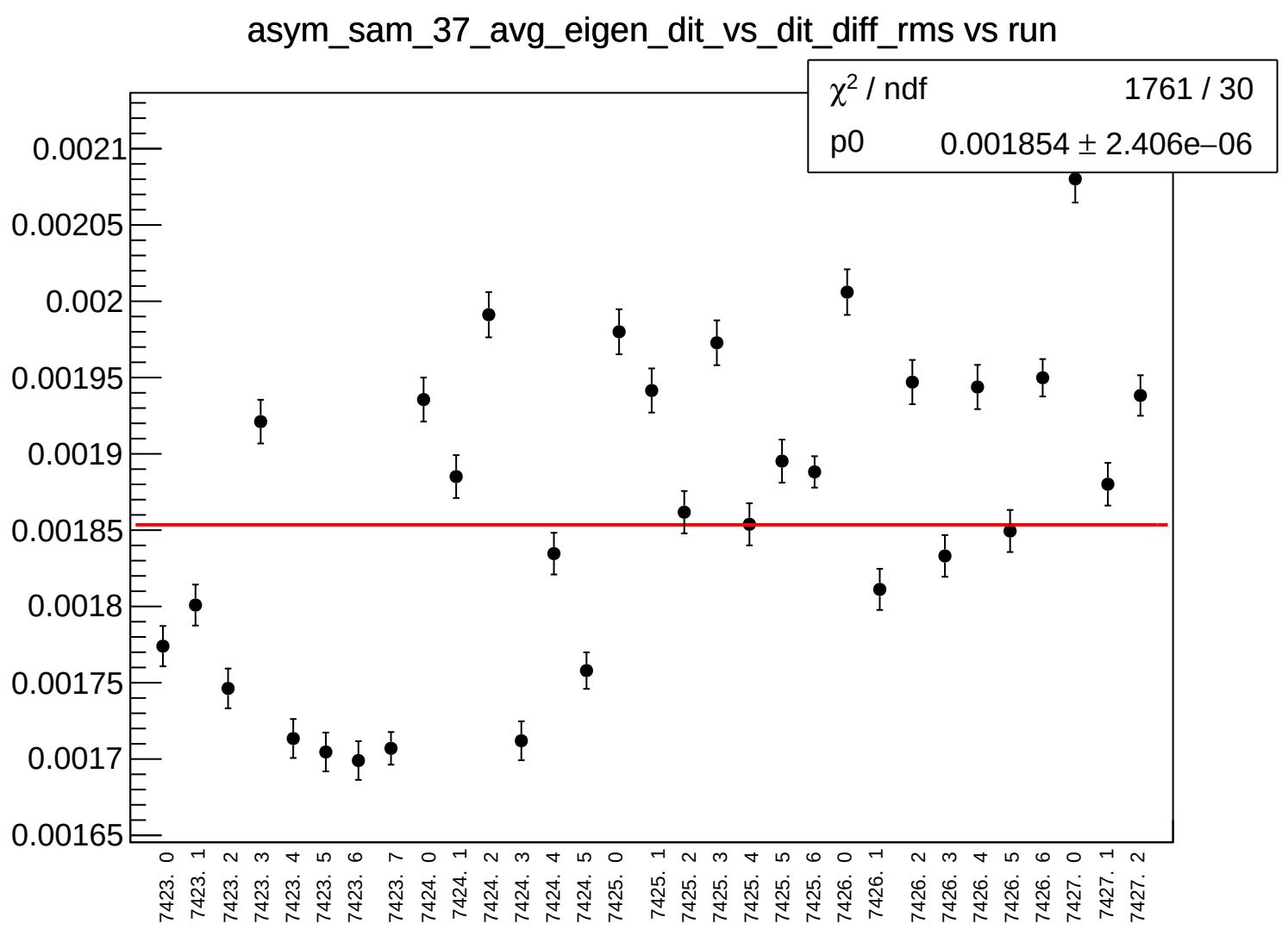

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.19 / 30
p0 −0.0985 ± 0.1329
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 537.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

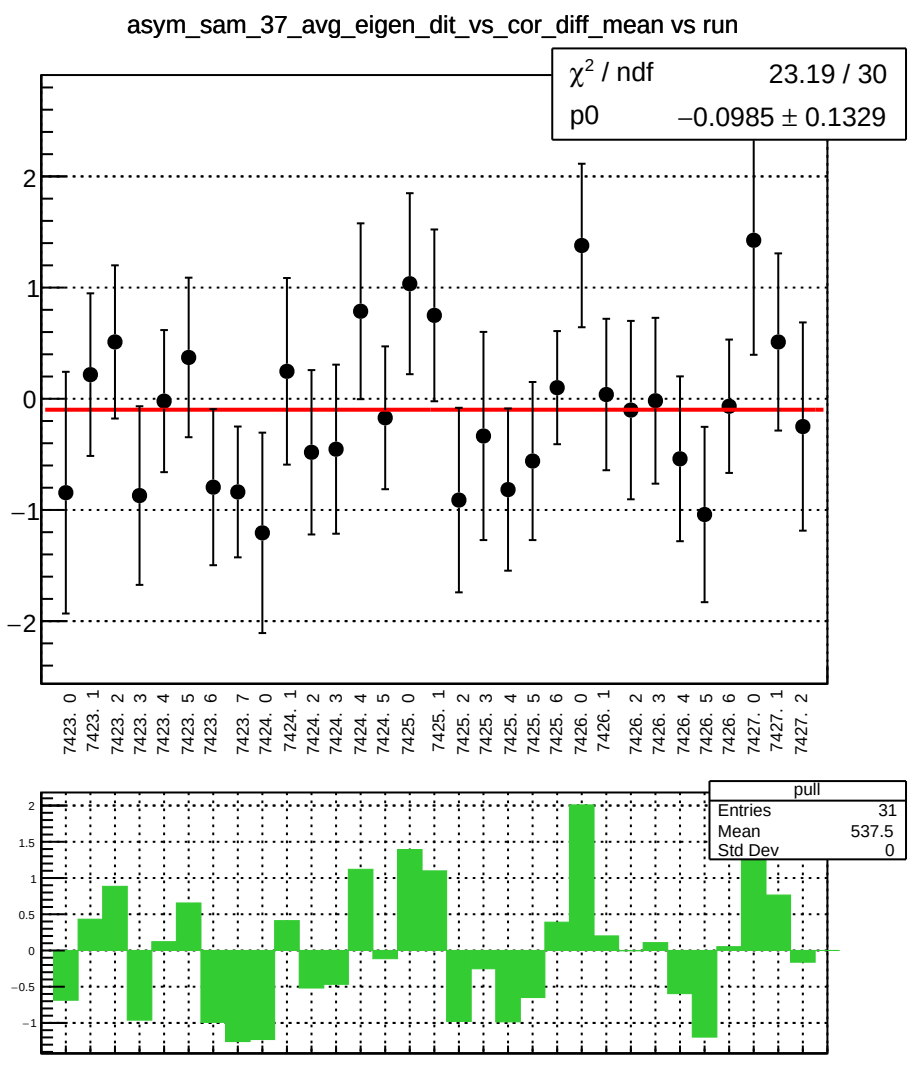

pull1D
Entries 31
Mean 0.00246
Std Dev 0.8649
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

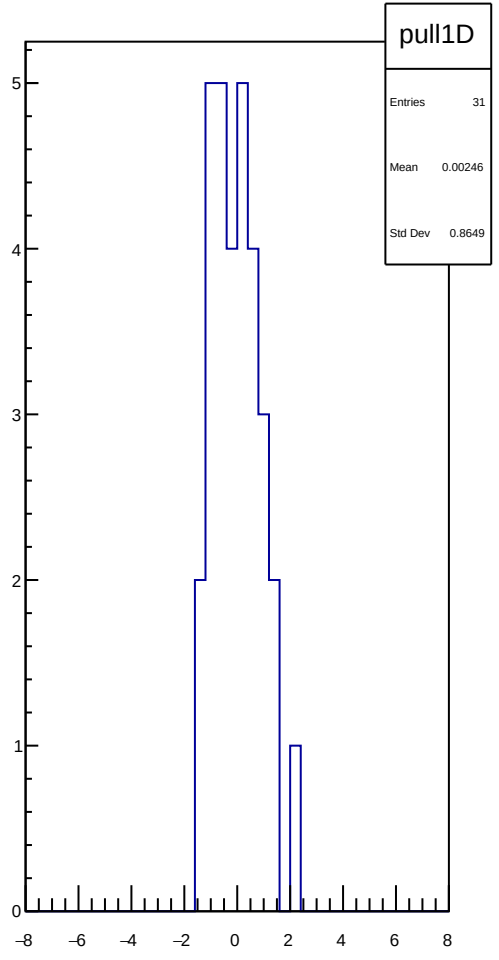

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8073 / 30
p0 72.01 ± 0.09396
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

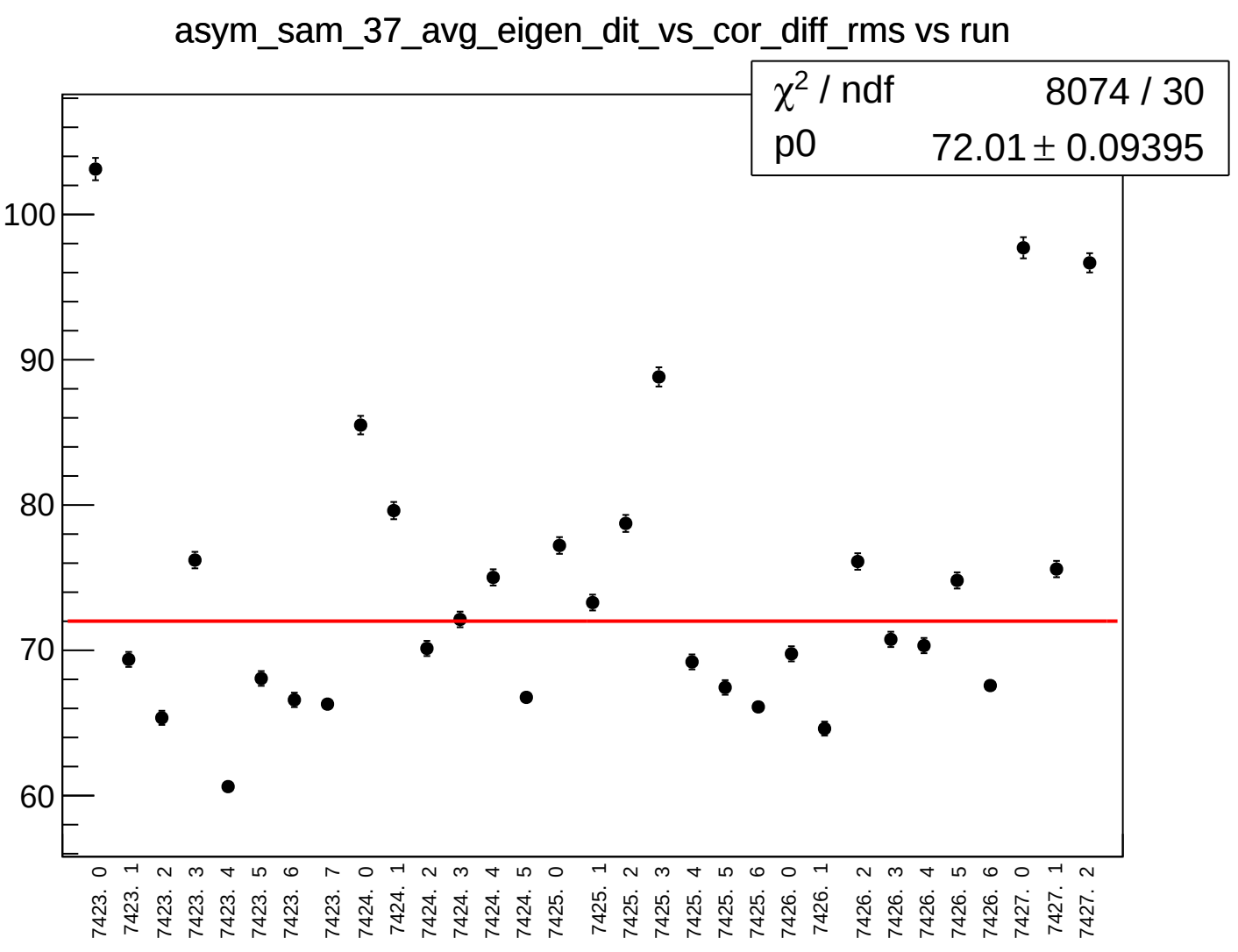

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.63 / 30
p0 −1.905e−06 ± 3.402e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −745.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

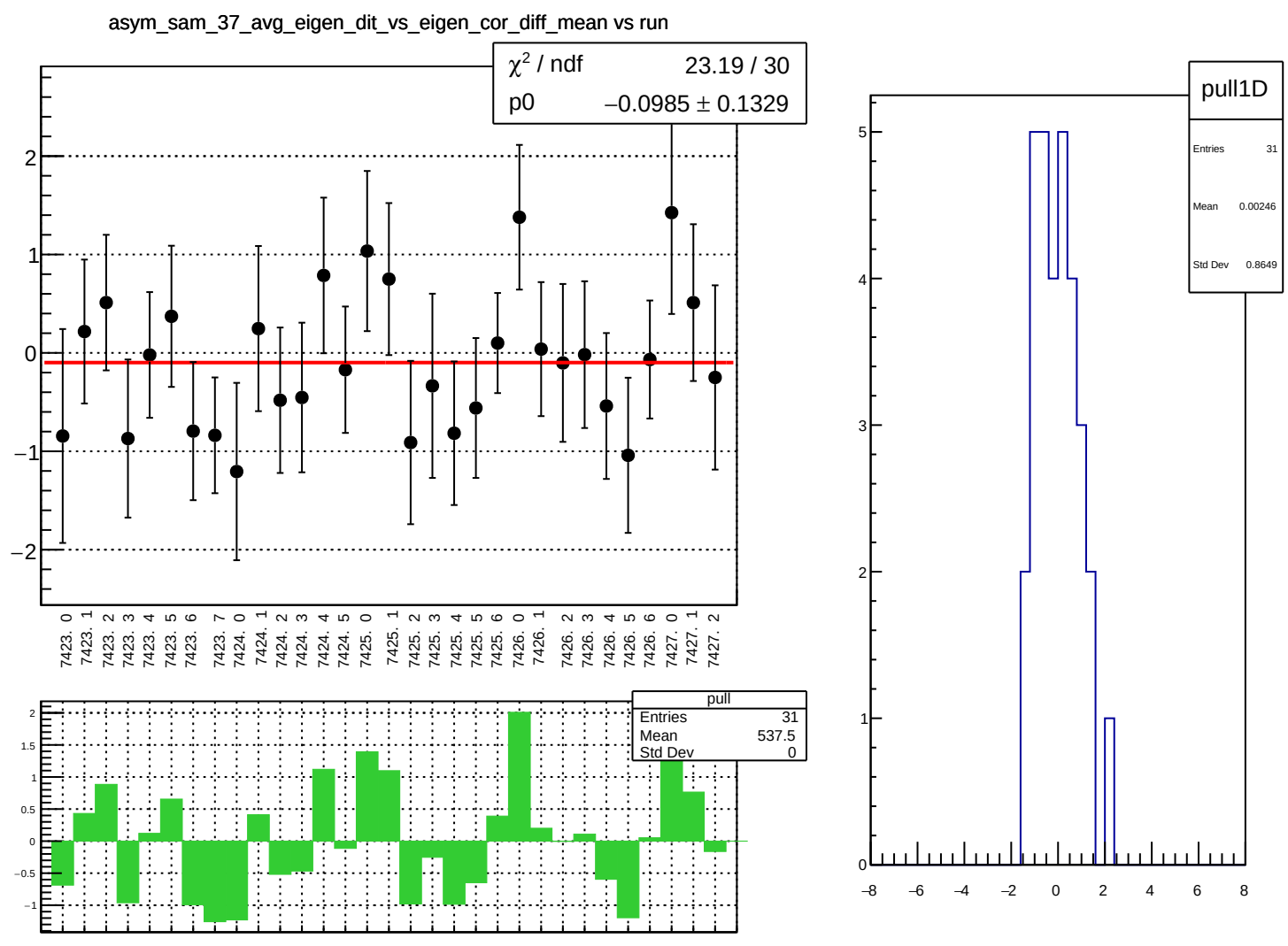

pull1D
Entries 31
Mean 0.004415
Std Dev 0.7957
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

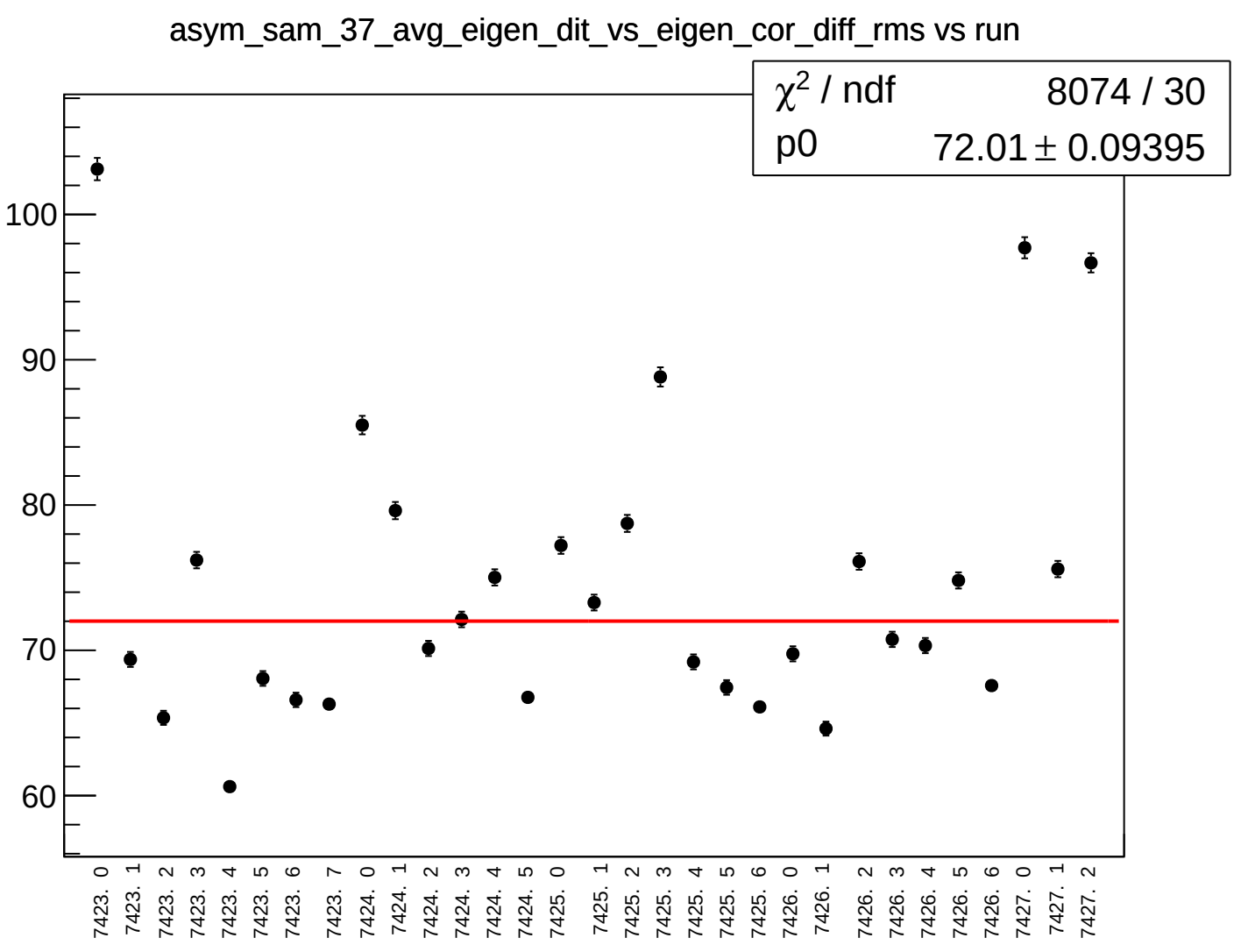

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1761 / 30
p0 0.001854 ± 2.406e−06
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

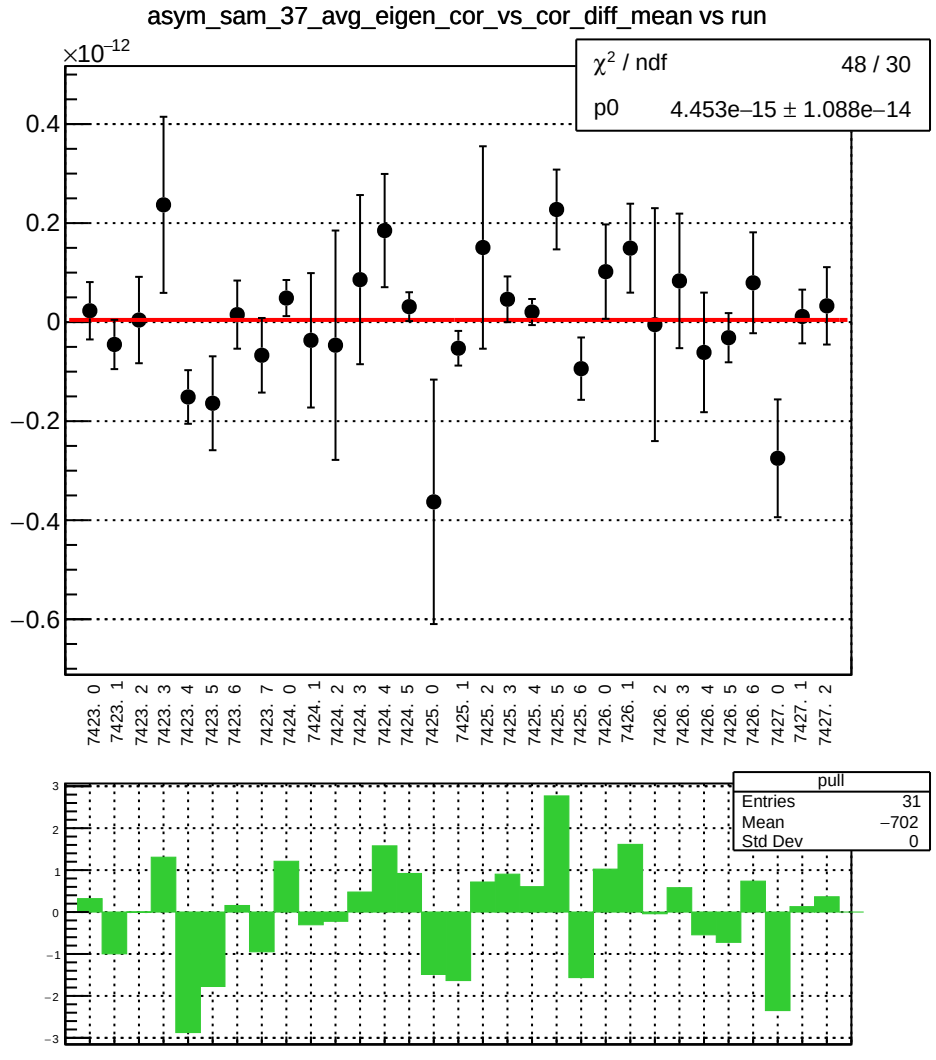

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.19 / 30
p0 −0.0985 ± 0.1329
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 537.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

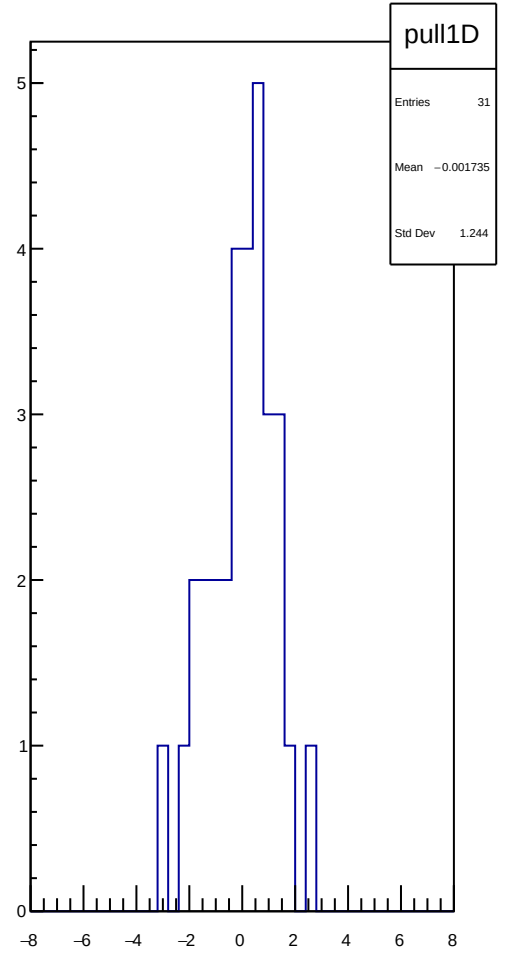

pull1D
Entries 31
Mean 0.00246
Std Dev 0.8649
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

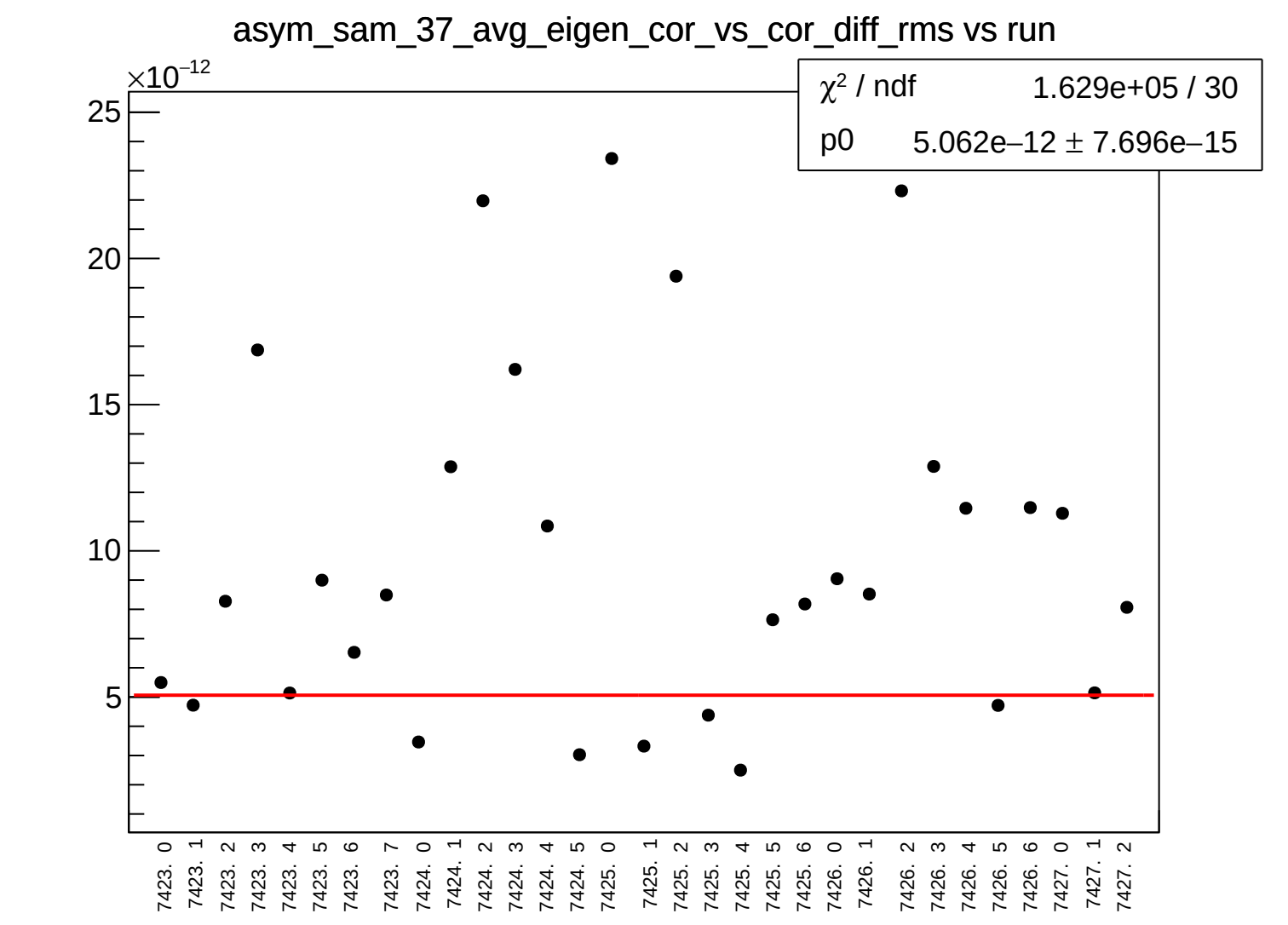

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8074 / 30
p0 72.01 ± 0.09395
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

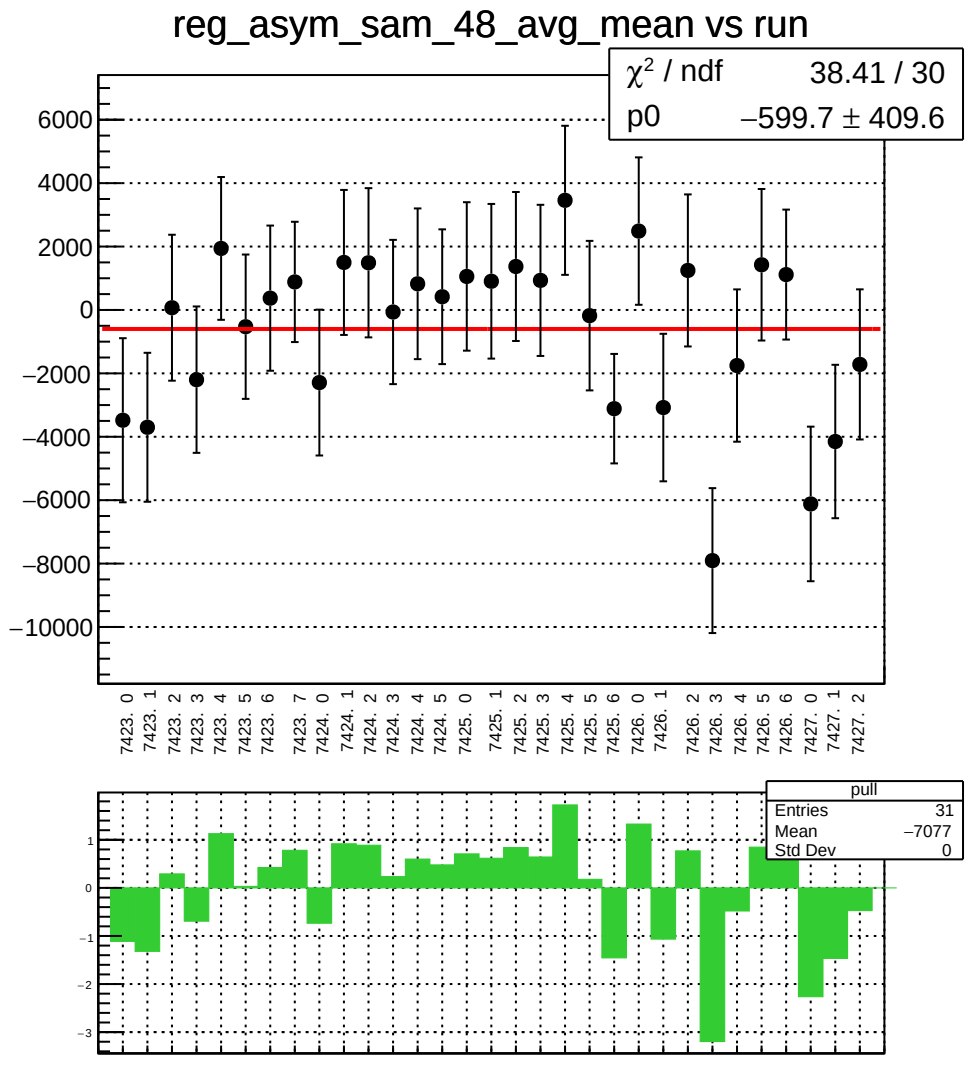

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.19 / 30
p0 −0.0985 ± 0.1329
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 537.5
Std Dev 0
pull1D
Entries 31
Mean 0.00246
Std Dev 0.8649

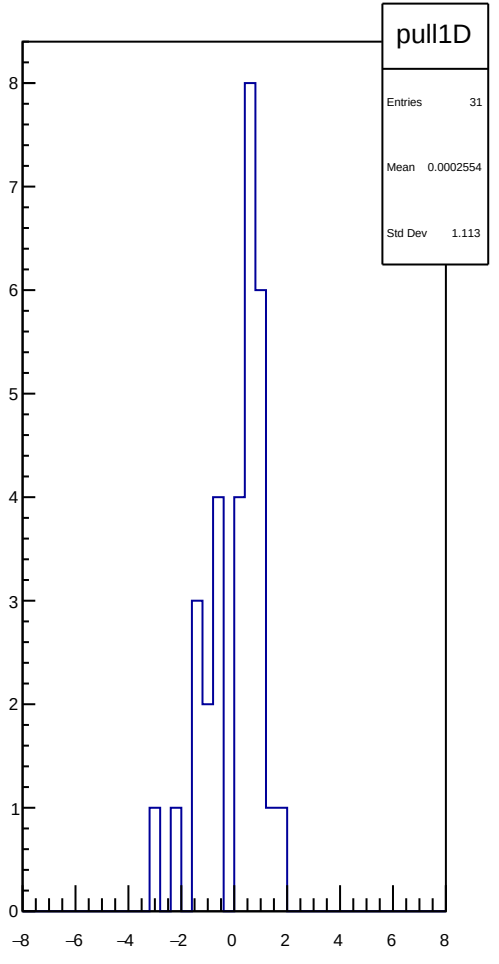

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8074 / 30
p0 72.01 ± 0.09395
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

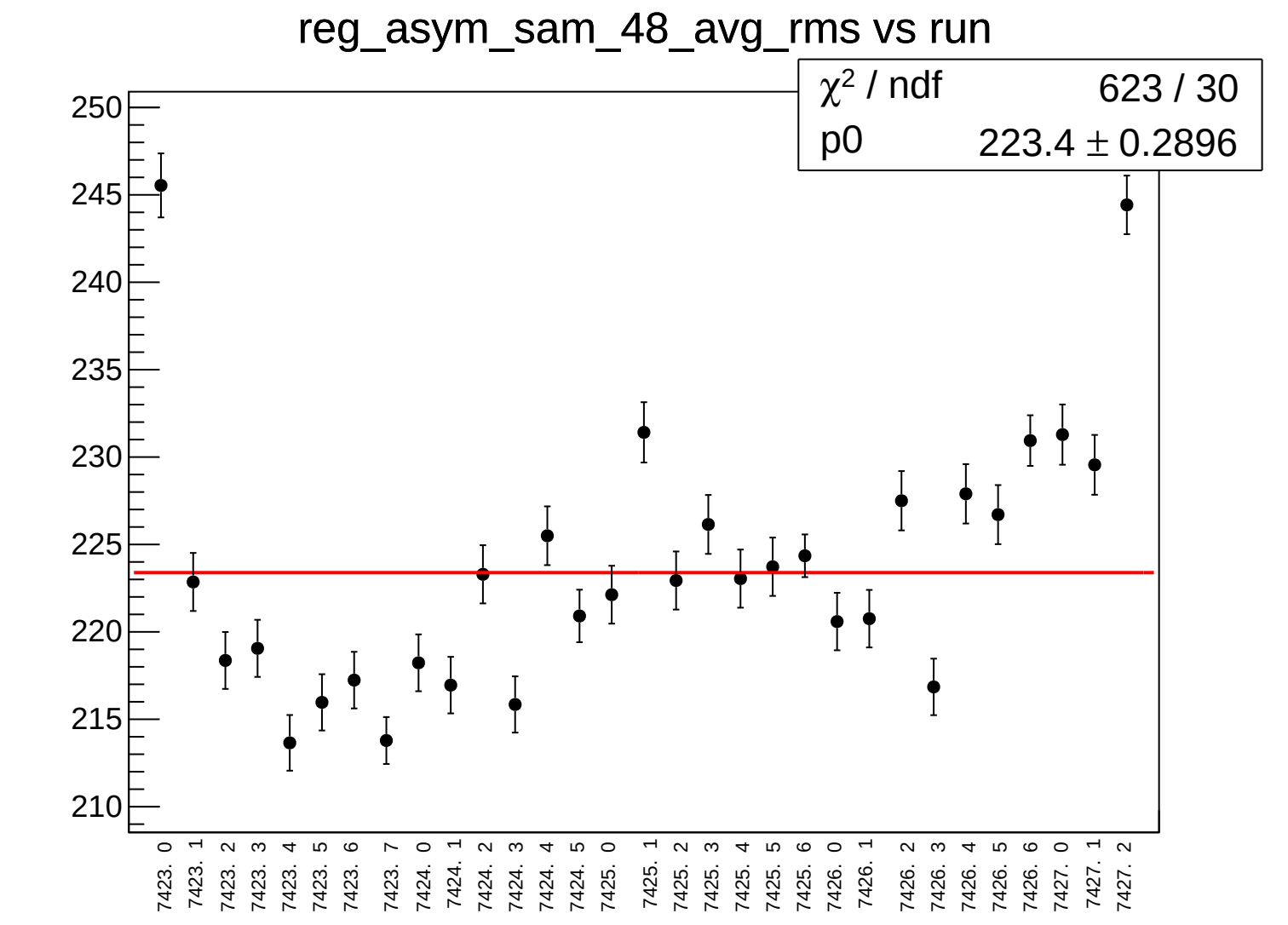

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48 / 30
p0 4.453e−15 ± 1.088e−14
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −702
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 31
Mean −0.001735
Std Dev 1.244
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

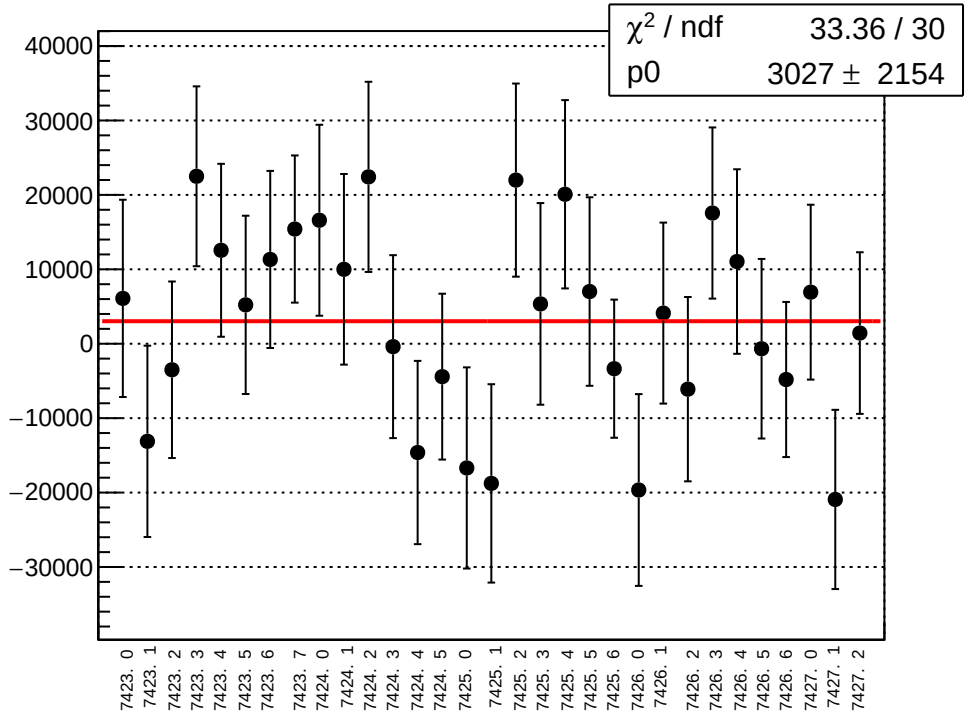

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.629e+05 / 30
p0 5.062e−12 ± 7.696e−15
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

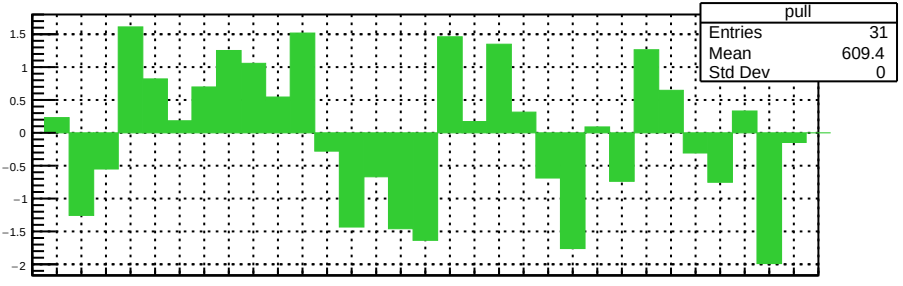

reg_asym_sam_48_avg_mean vs run
χ² / ndf 38.41 / 30
p0 −599.7 ± 409.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −7077
Std Dev 0
1
0
−1
−2
−3

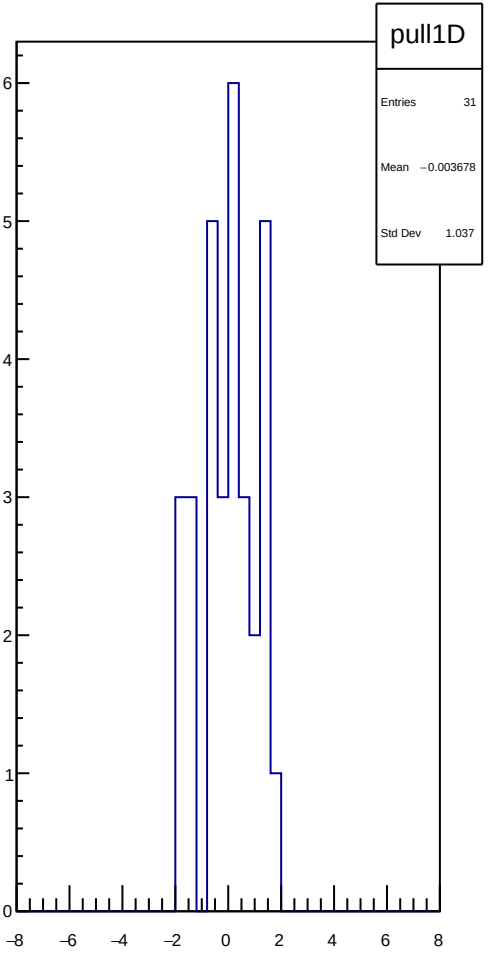

pull1D
Entries 31
Mean 0.0002554
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

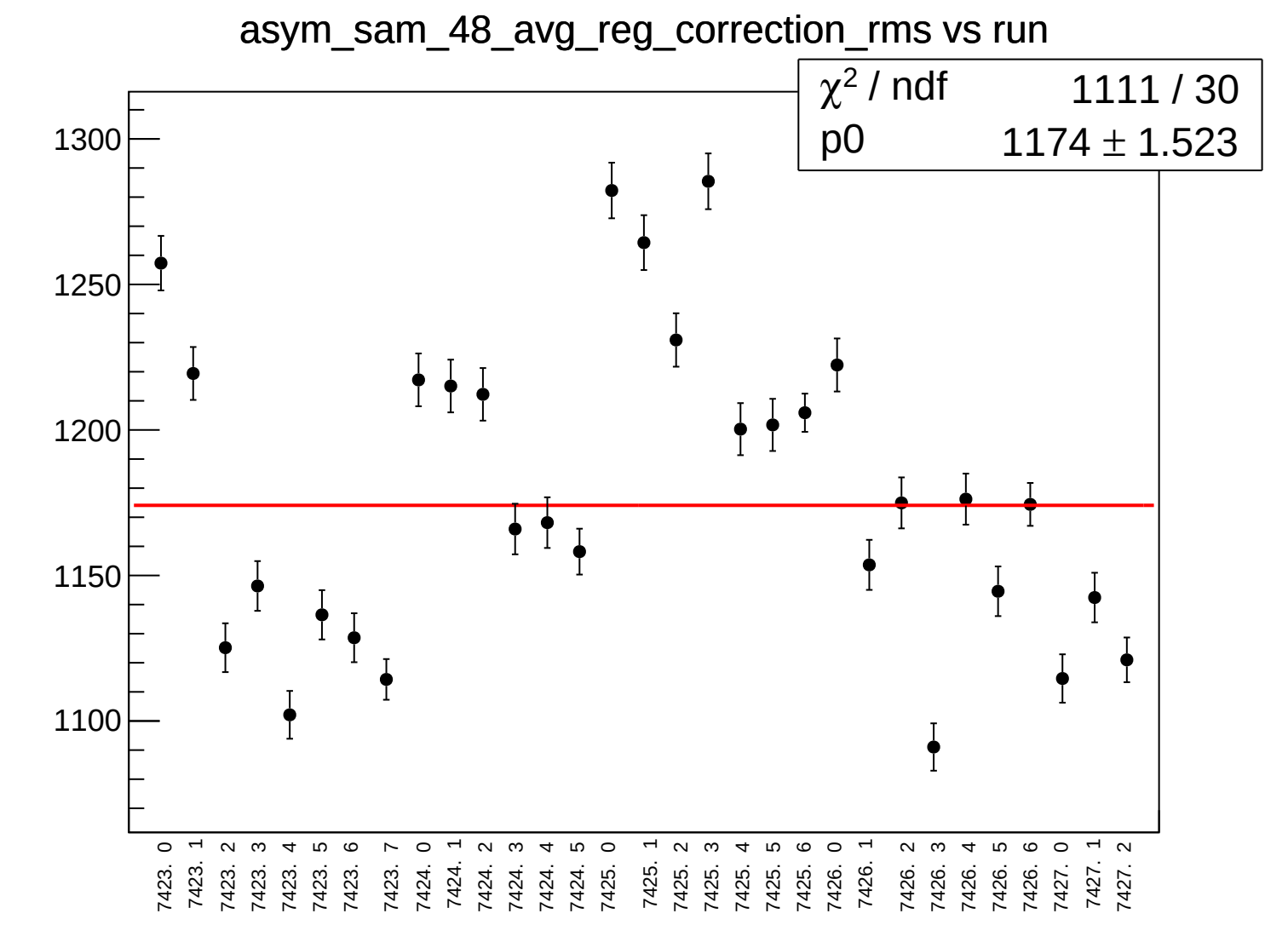

reg_asym_sam_48_avg_rms vs run
χ² / ndf 623 / 30
p0 223.4 ± 0.2896
250
245
240
235
230
225
220
215
210
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

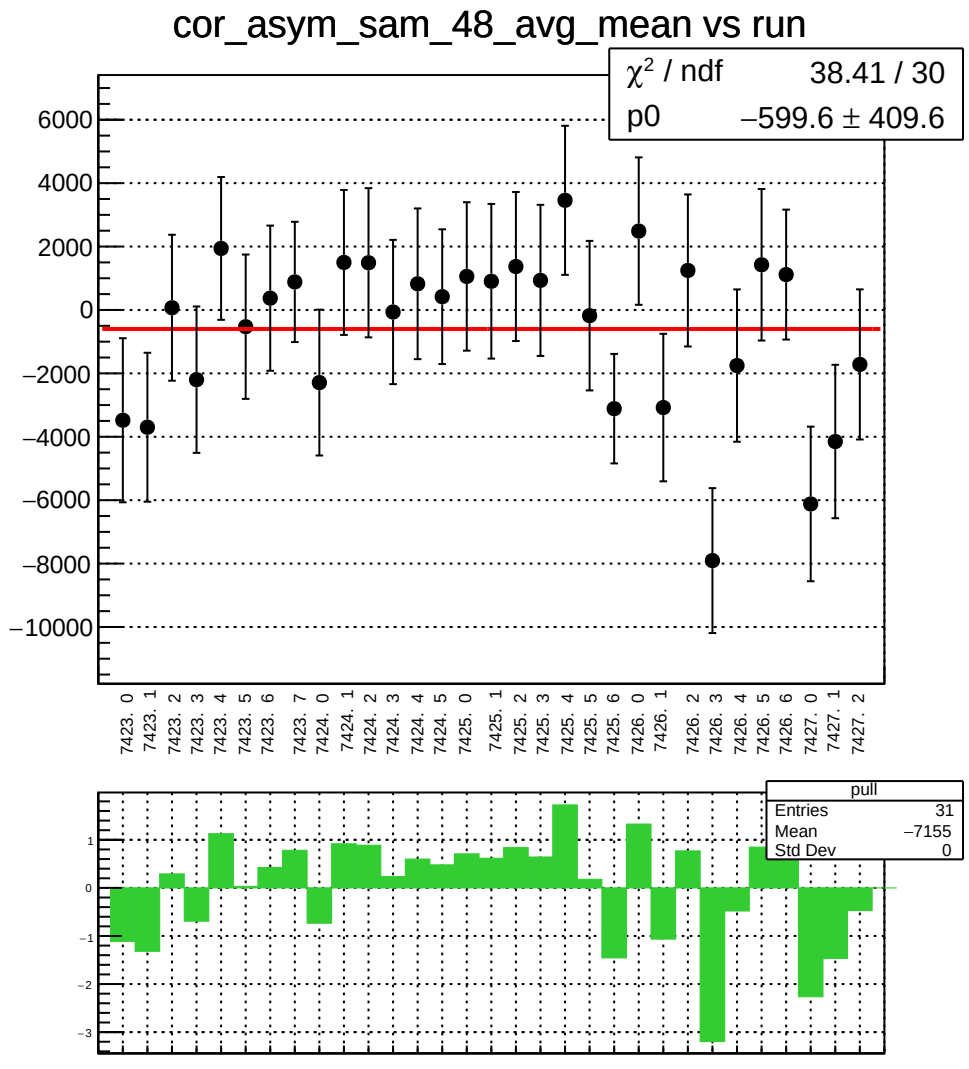
asym_sam_48_avg_reg_correction_mean vs run

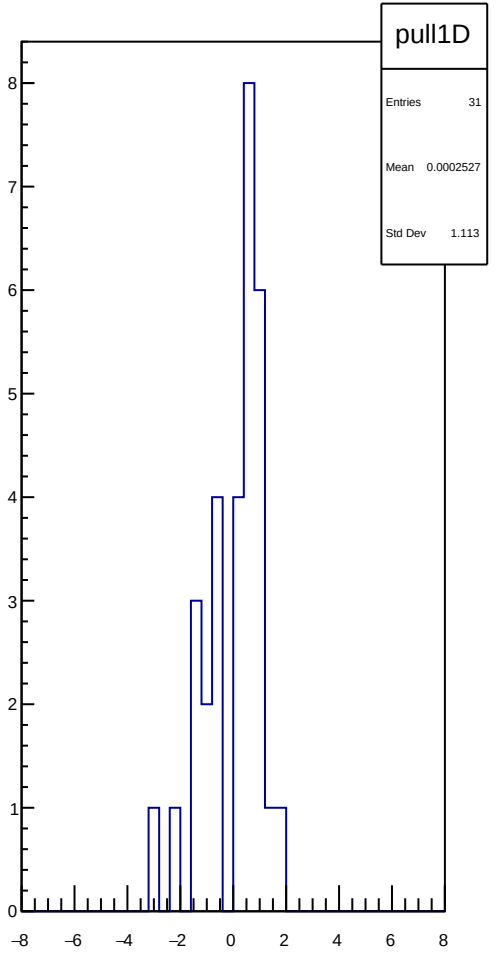


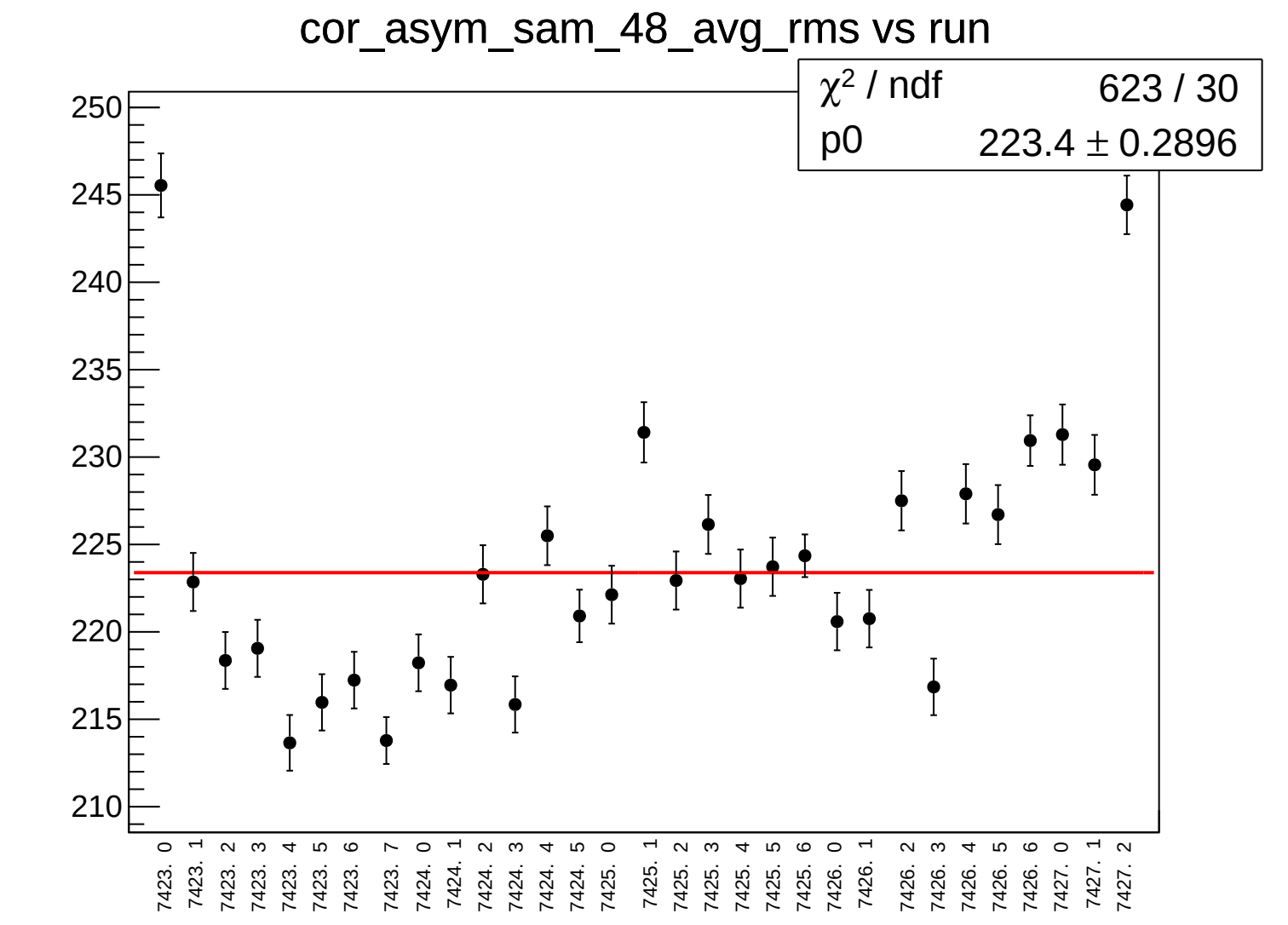




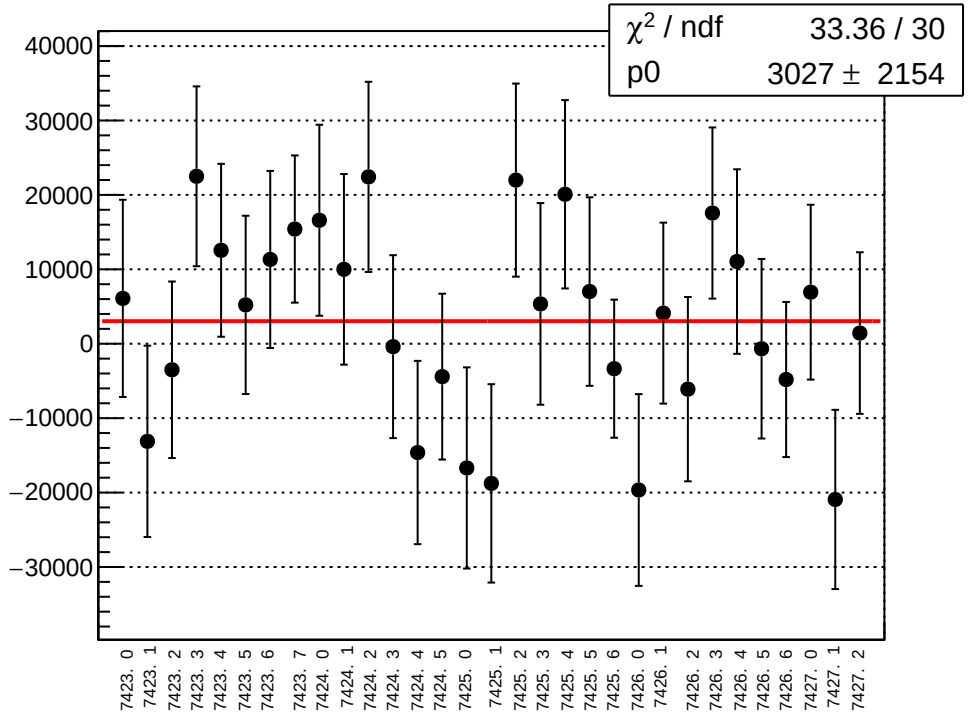

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1111 / 30
p0 1174 ± 1.523
1300
1250
1200
1150
1100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

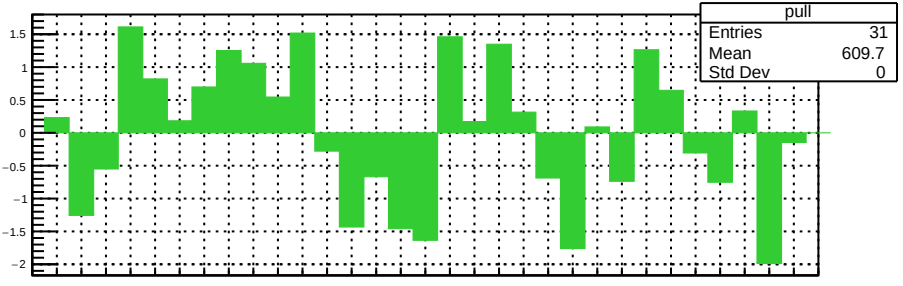

cor_asym_sam_48_avg_mean vs run
χ² / ndf 38.41 / 30
p0 −599.6 ± 409.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −7155
Std Dev 0
1
0
−1
−2
−3

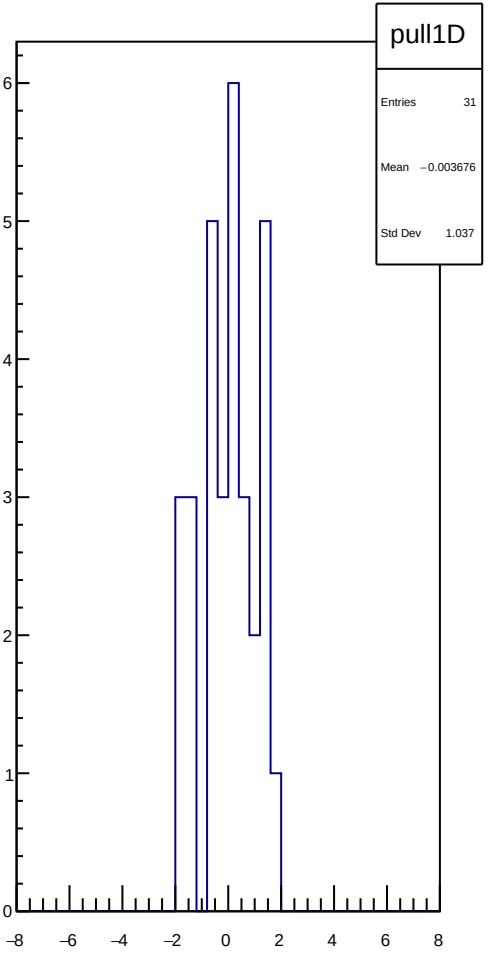

pull1D
Entries 31
Mean 0.0002527
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

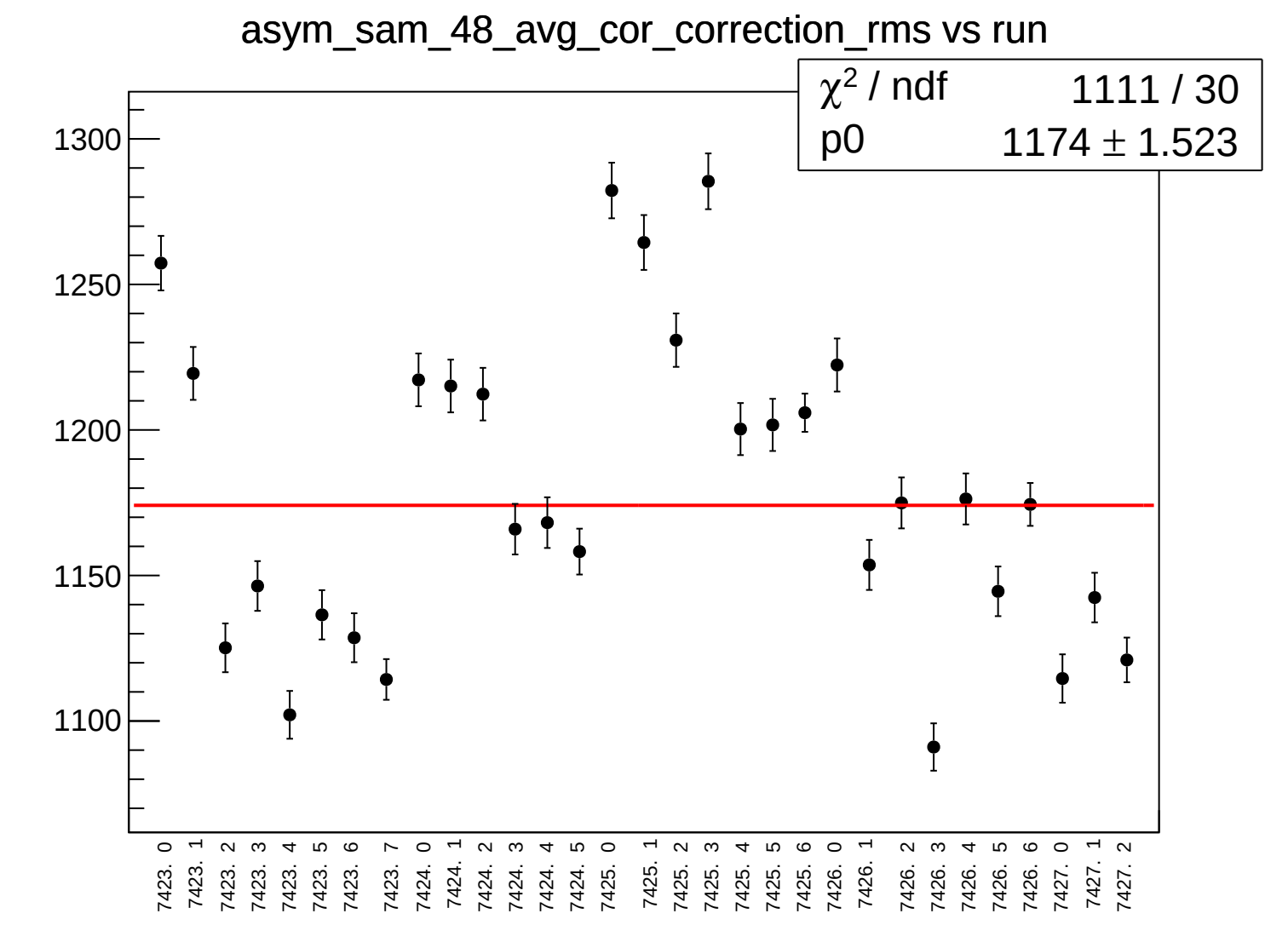

cor_asym_sam_48_avg_rms vs run
χ² / ndf 623 / 30
p0 223.4 ± 0.2896
250
245
240
235
230
225
220
215
210
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

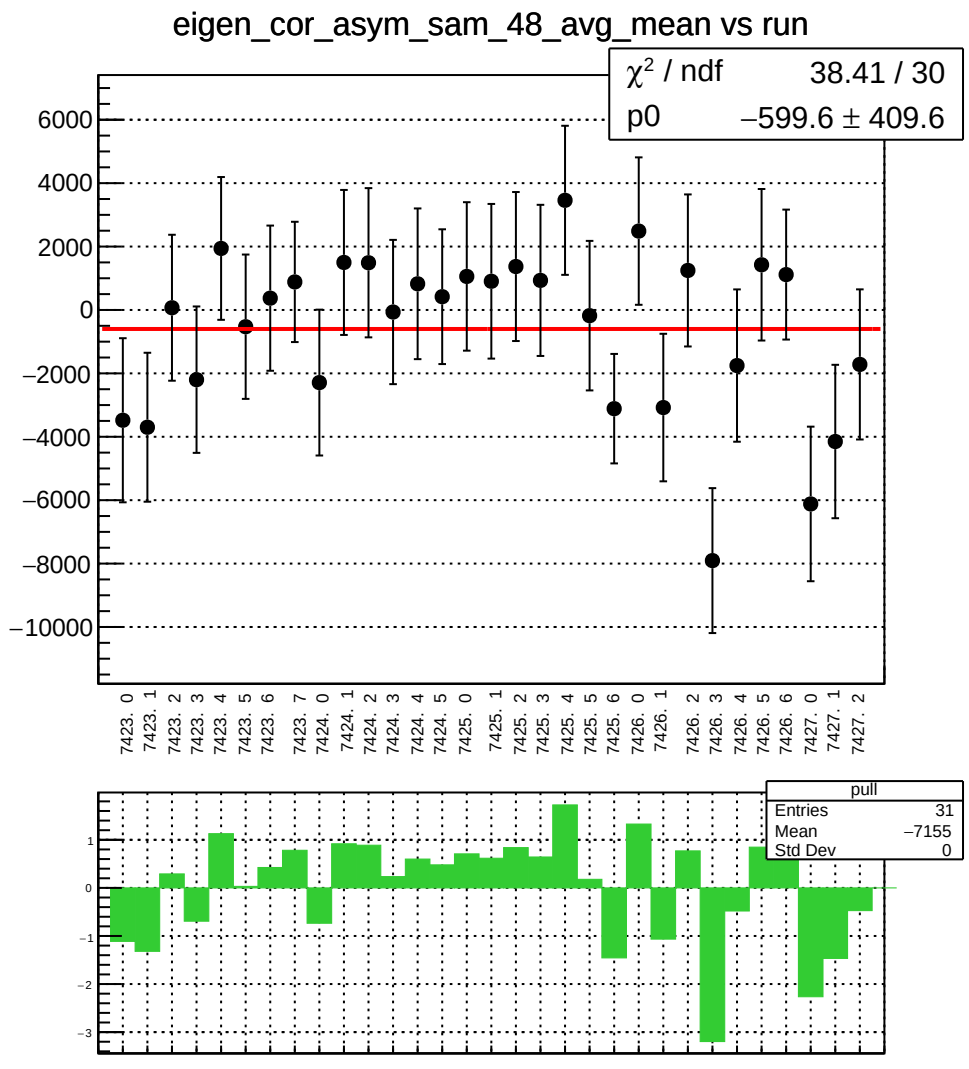
asym_sam_48_avg_cor_correction_mean vs run

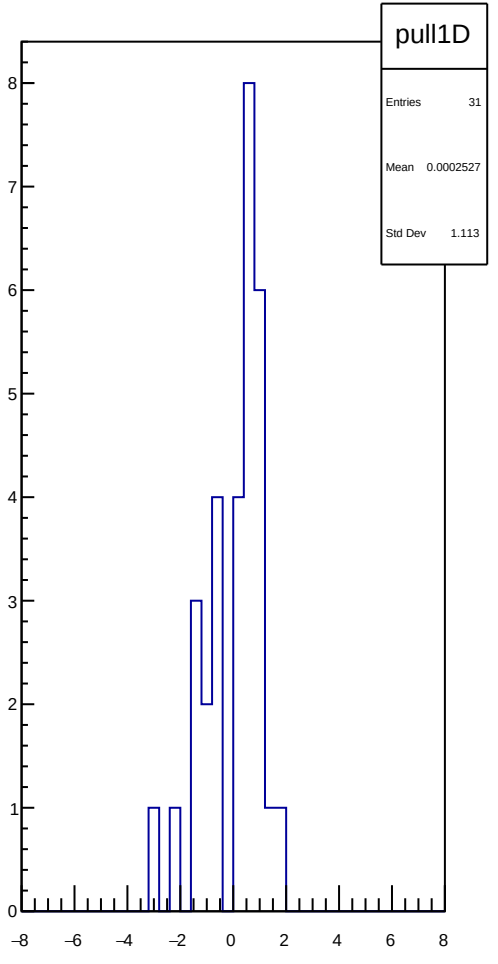


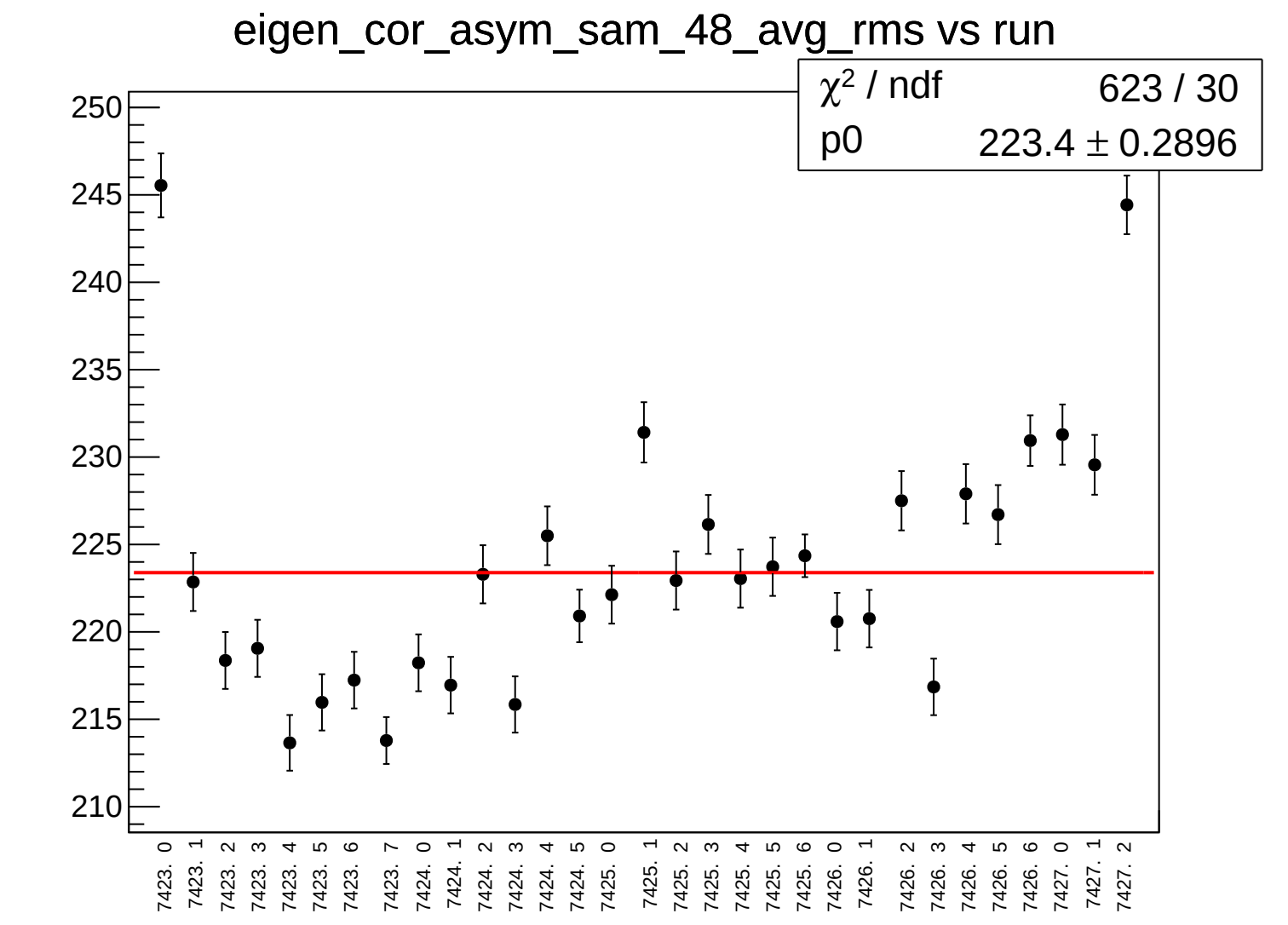


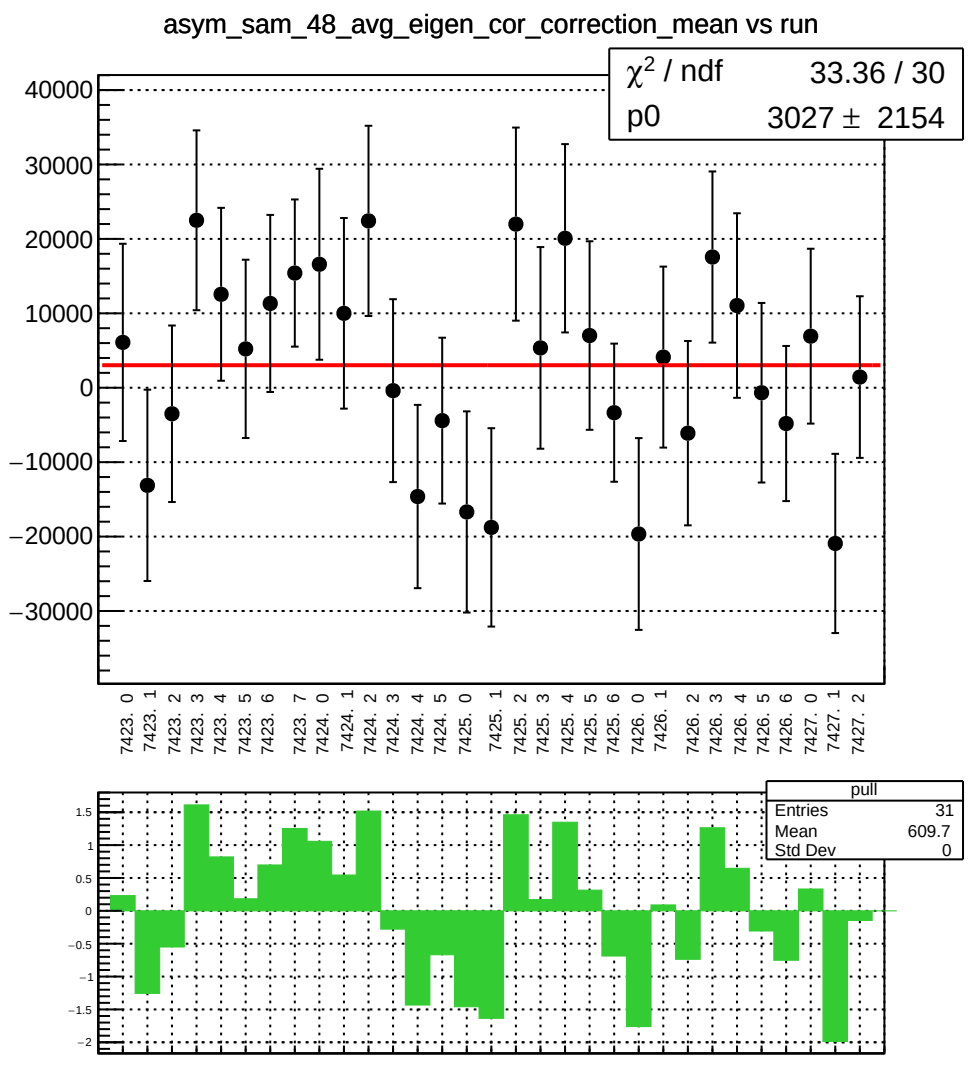


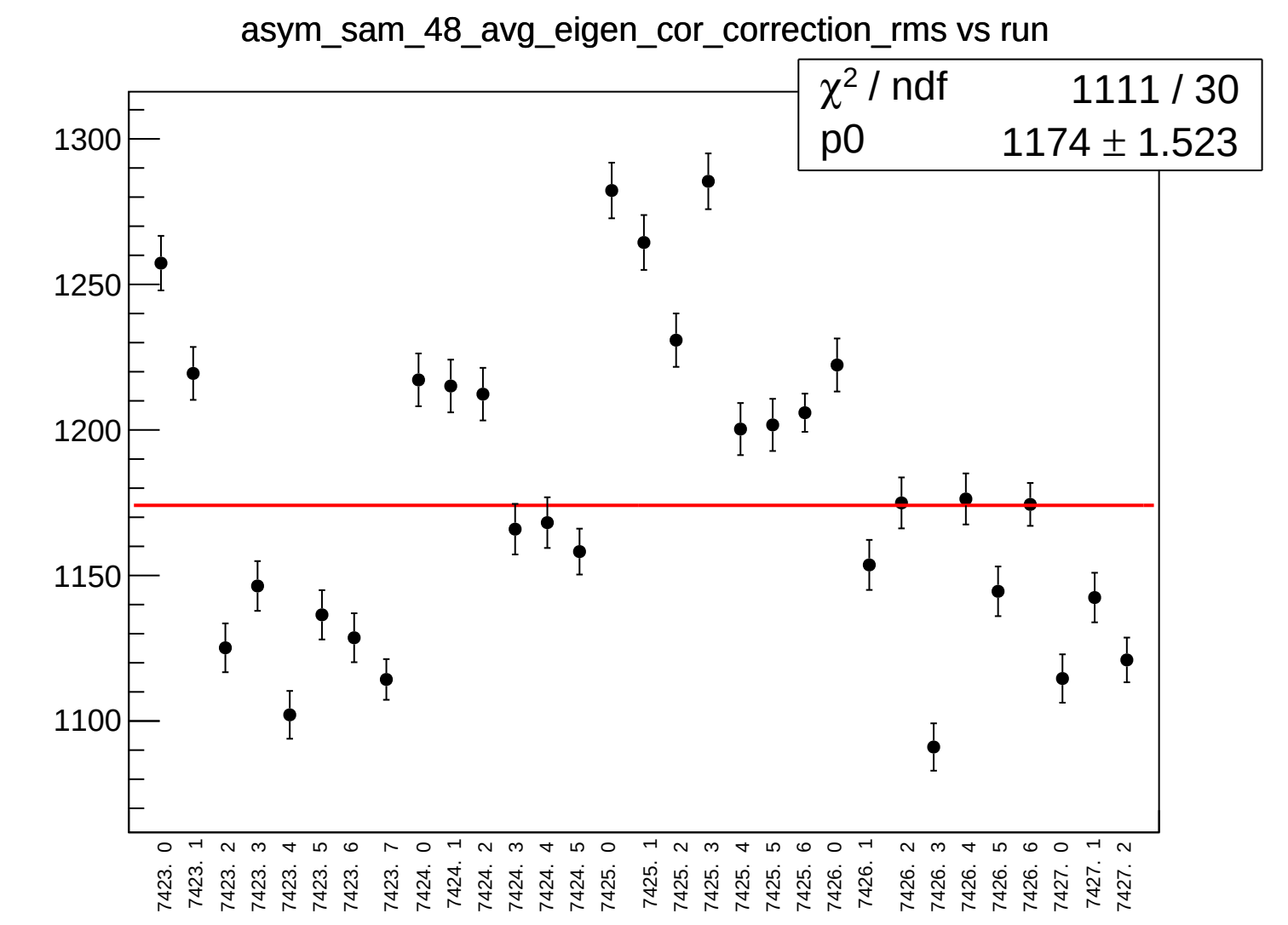

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1111 / 30
p0 1174 ± 1.523
1300
1250
1200
1150
1100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

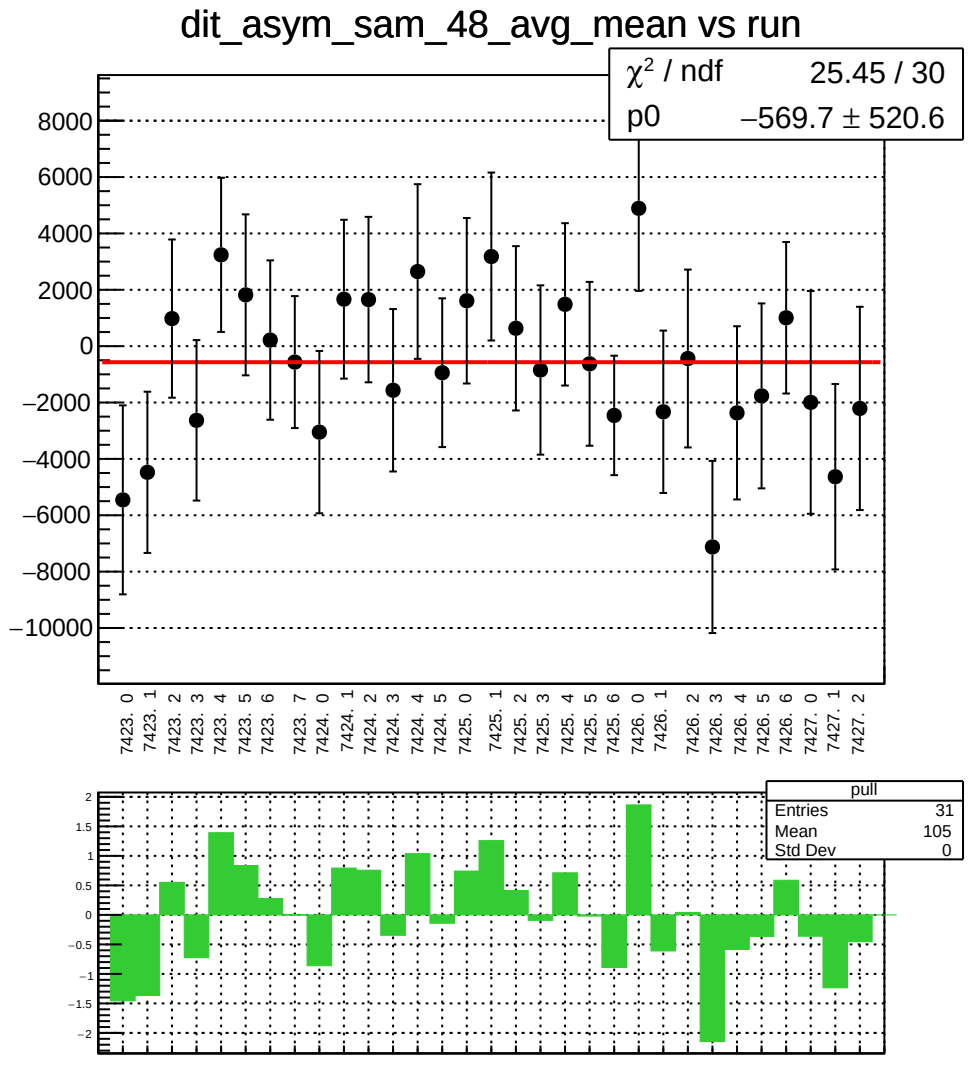

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 38.41 / 30
p0 −599.6 ± 409.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −7155
Std Dev 0
1
0
−1
−2
−3

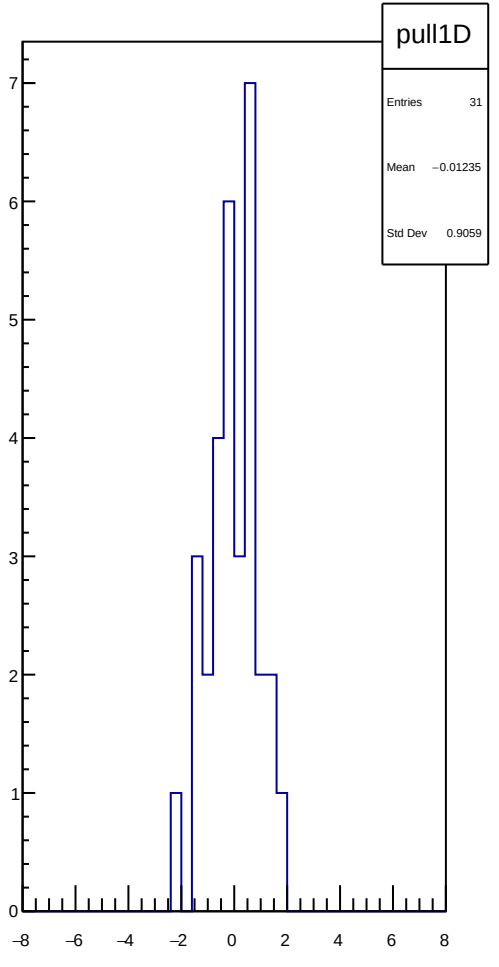

pull1D
Entries 31
Mean 0.0002527
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

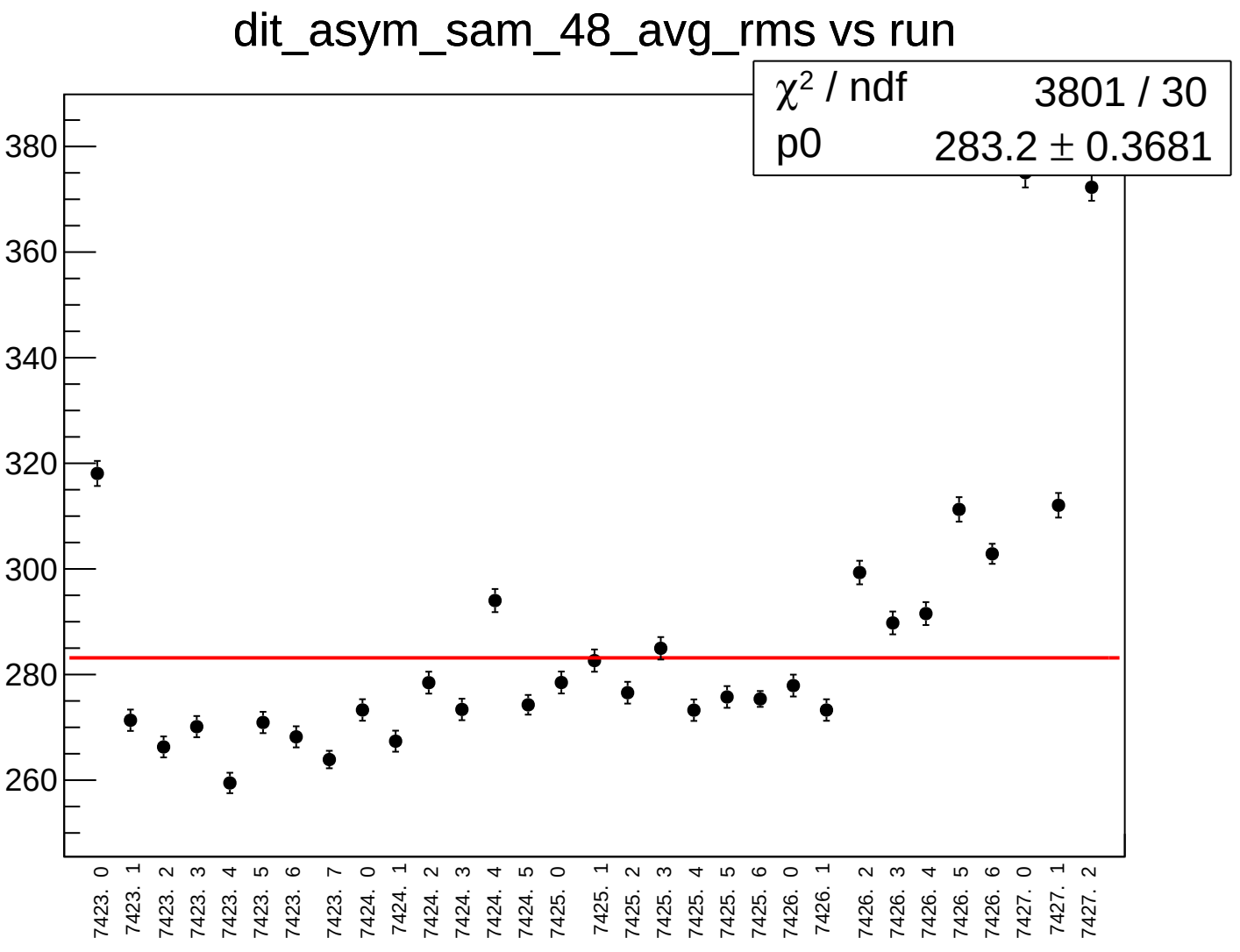

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 623 / 30
p0 223.4 ± 0.2896
250
245
240
235
230
225
220
215
210
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

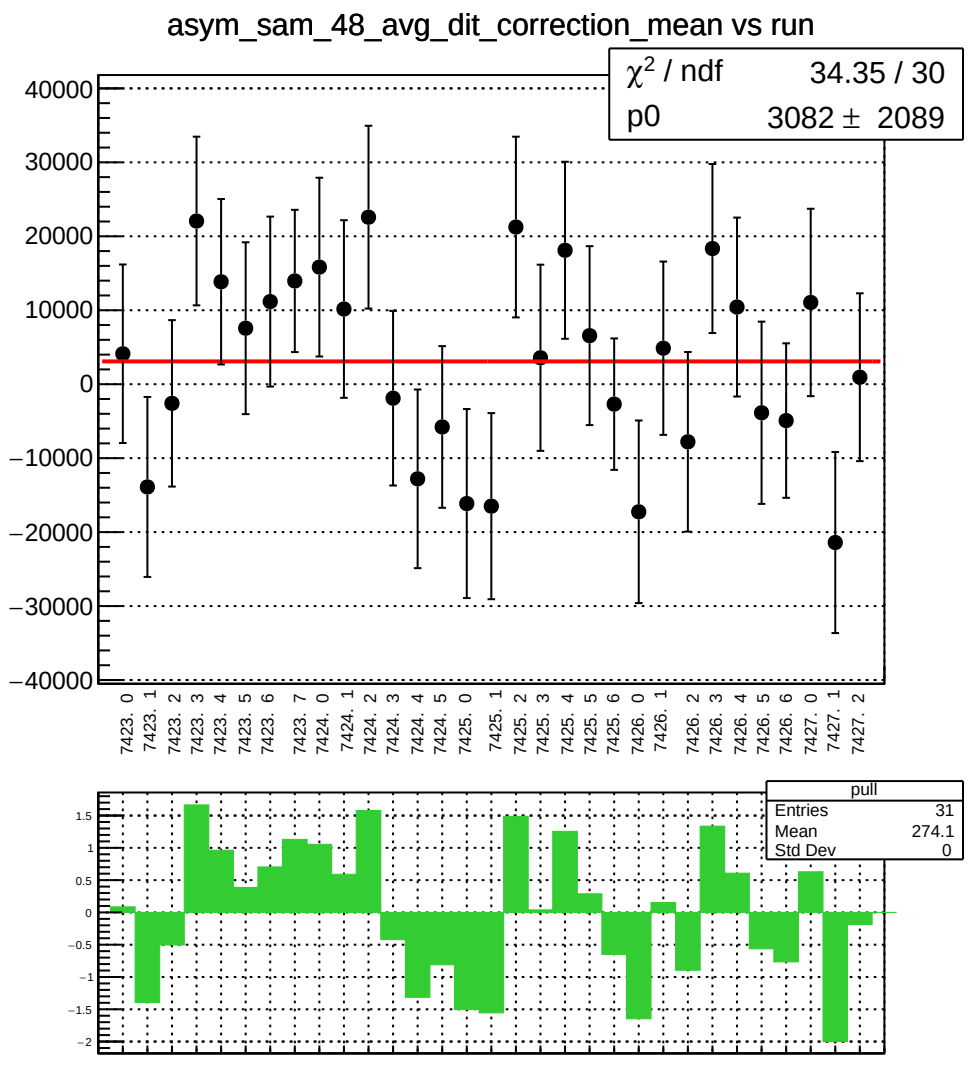

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 33.36 / 30
p0 3027 ± 2154
40000
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 609.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.003676
Std Dev 1.037
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

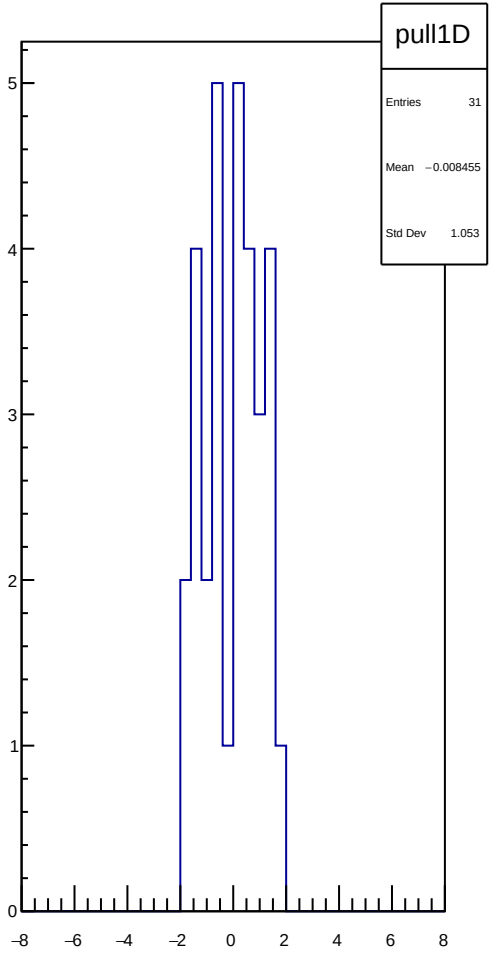

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1111 / 30
p0 1174 ± 1.523
1300
1250
1200
1150
1100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

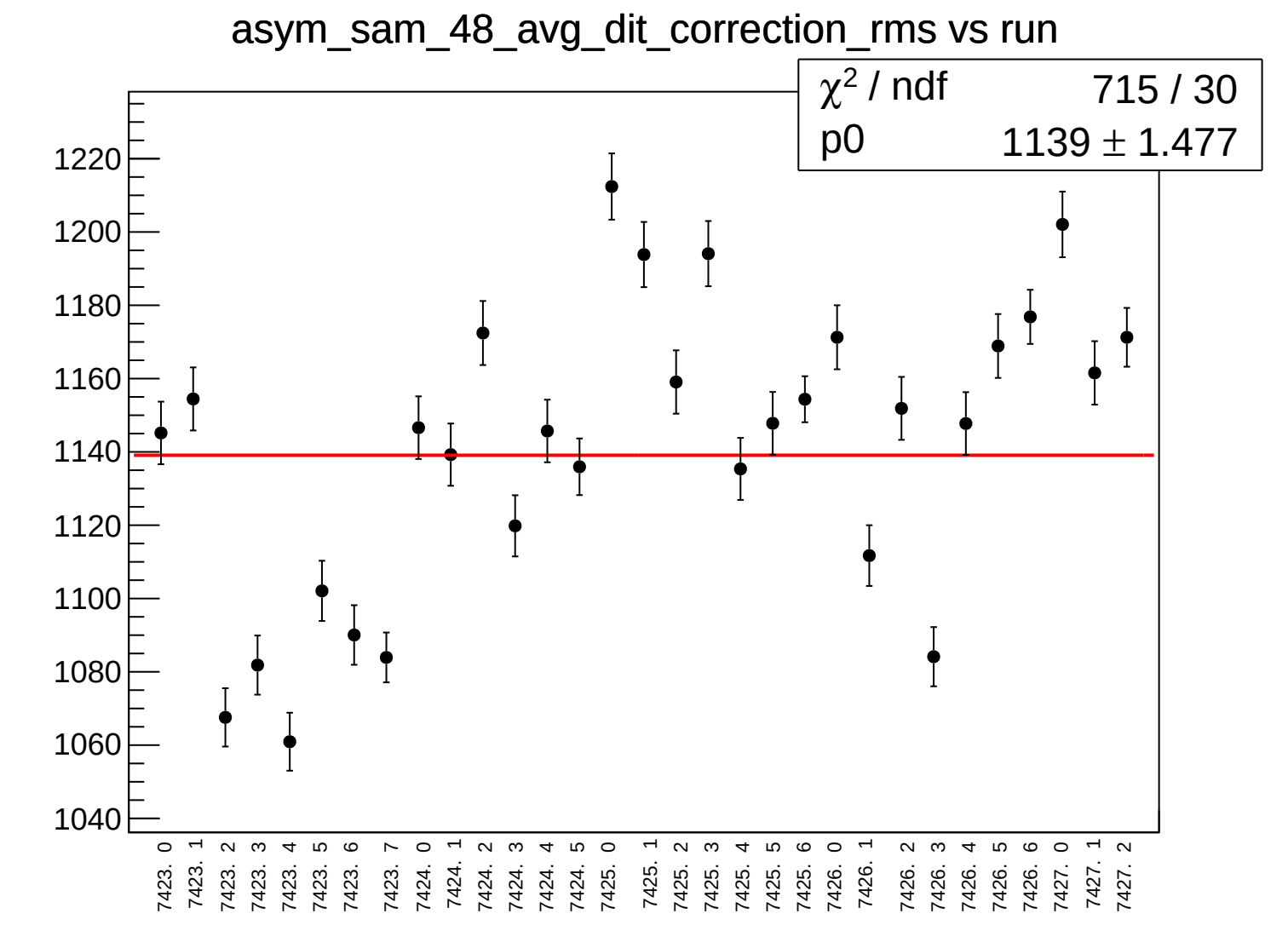

dit_asym_sam_48_avg_mean vs run
χ² / ndf 25.45 / 30
p0 −569.7 ± 520.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 105
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

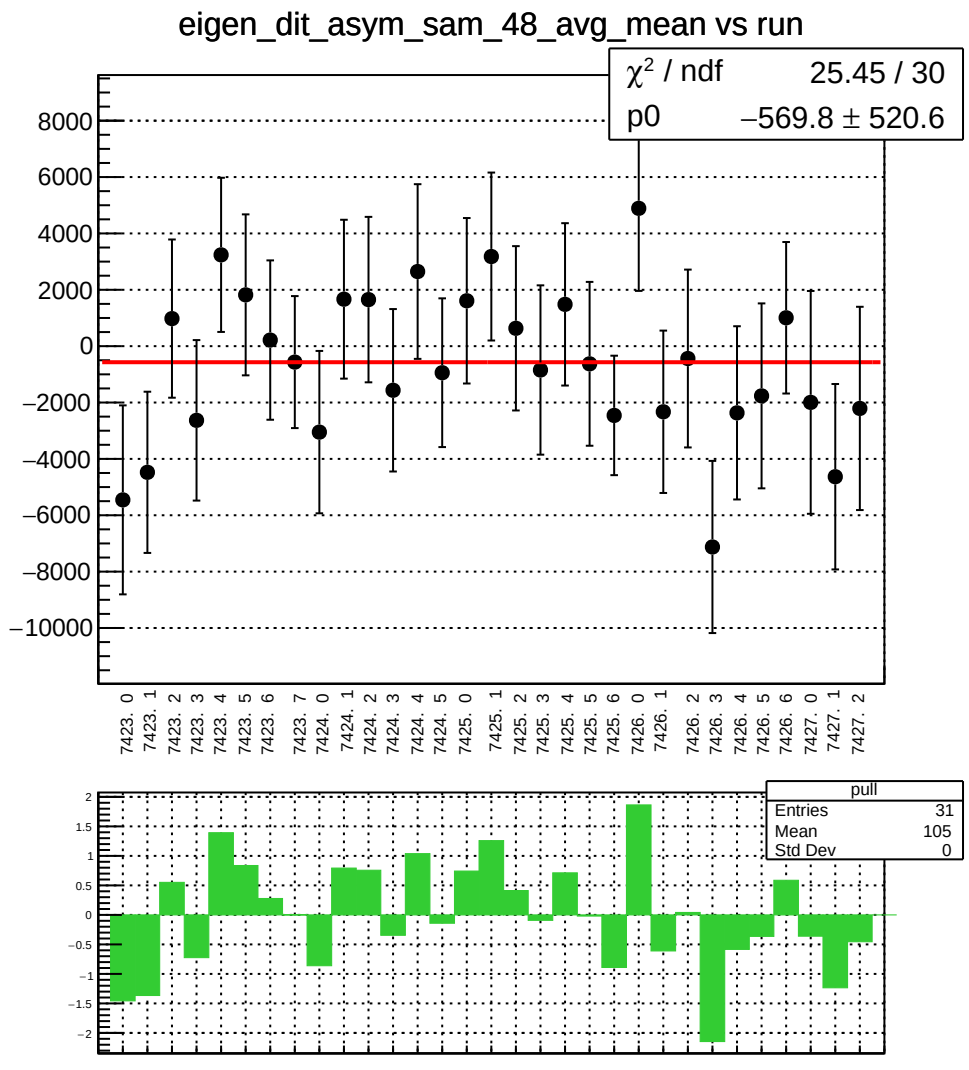

pull1D
Entries 31
Mean −0.01235
Std Dev 0.9059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

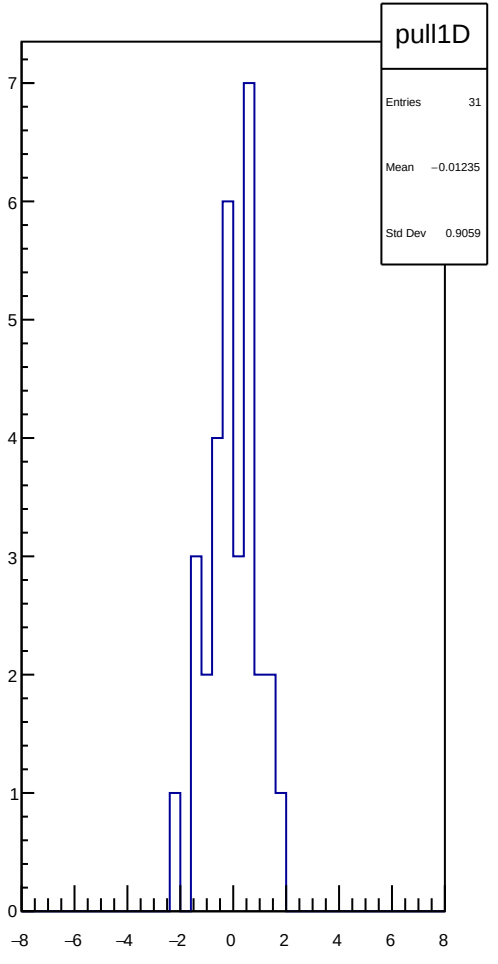

dit_asym_sam_48_avg_rms vs run
χ² / ndf 3801 / 30
p0 283.2 ± 0.3681
380
360
340
320
300
280
260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

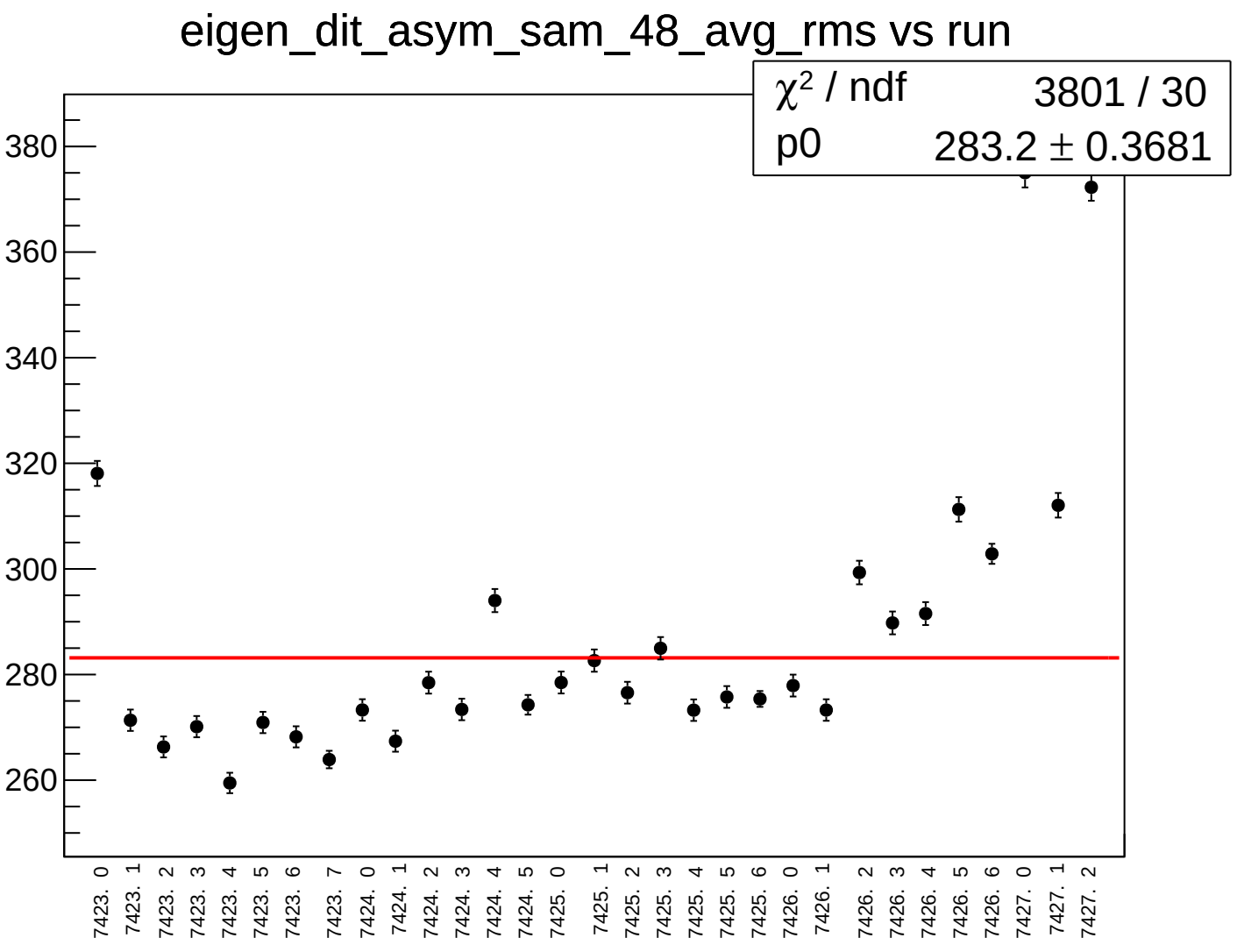

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 34.35 / 30
p0 3082 ± 2089
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 274.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

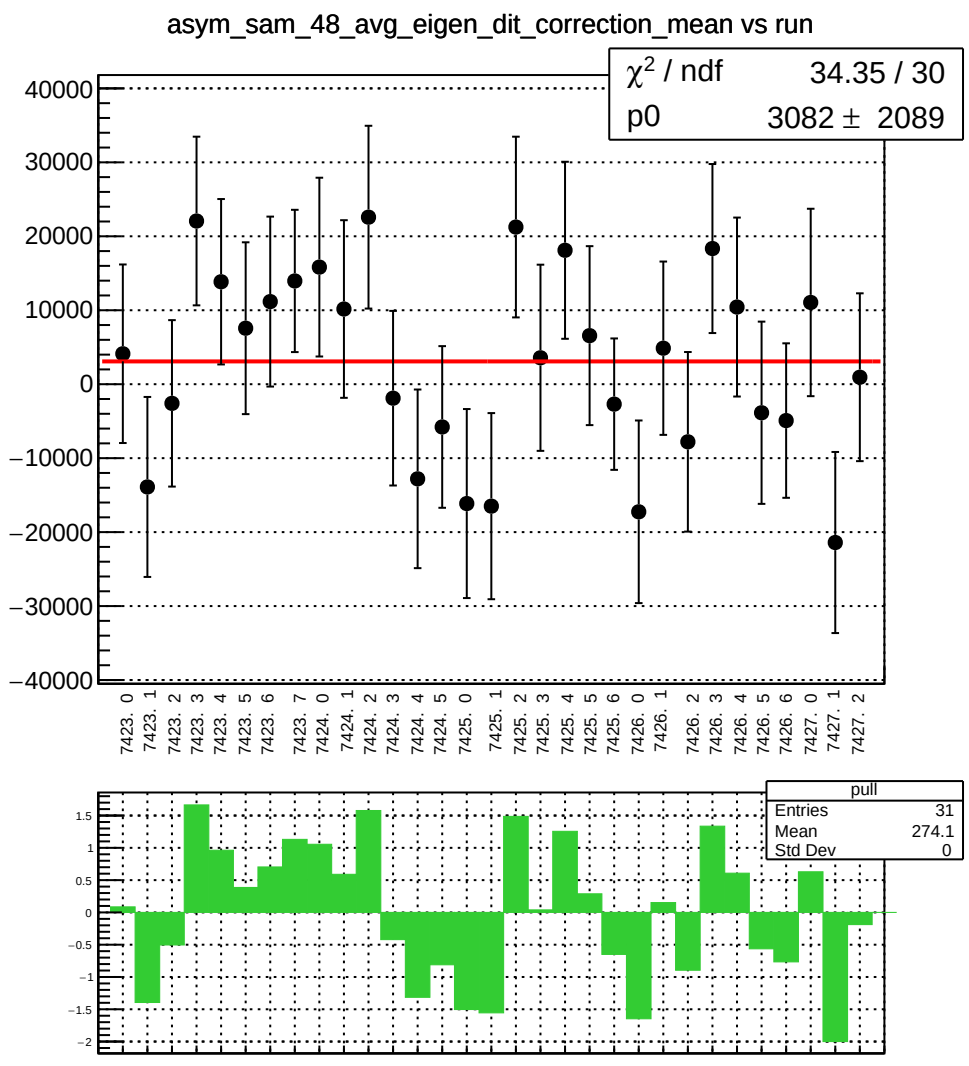

pull1D
Entries 31
Mean −0.008455
Std Dev 1.053
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

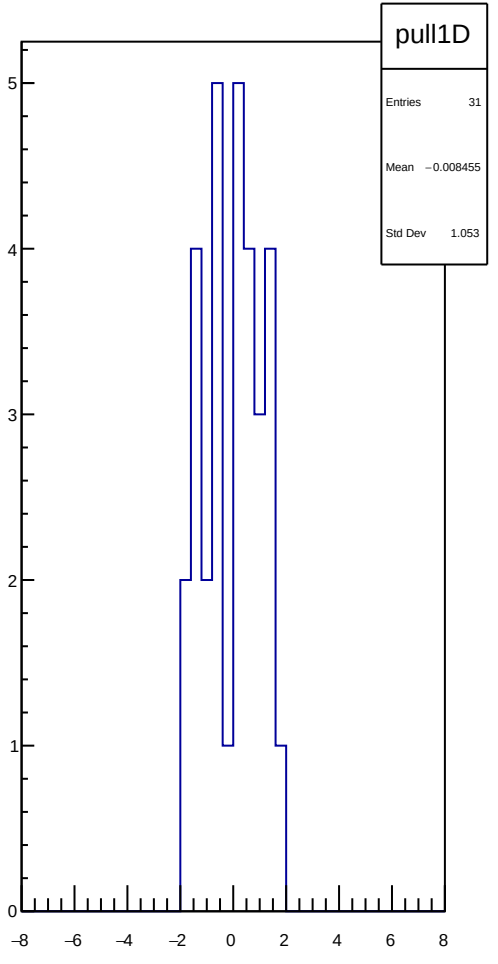

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 715 / 30
p0 1139 ± 1.477
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

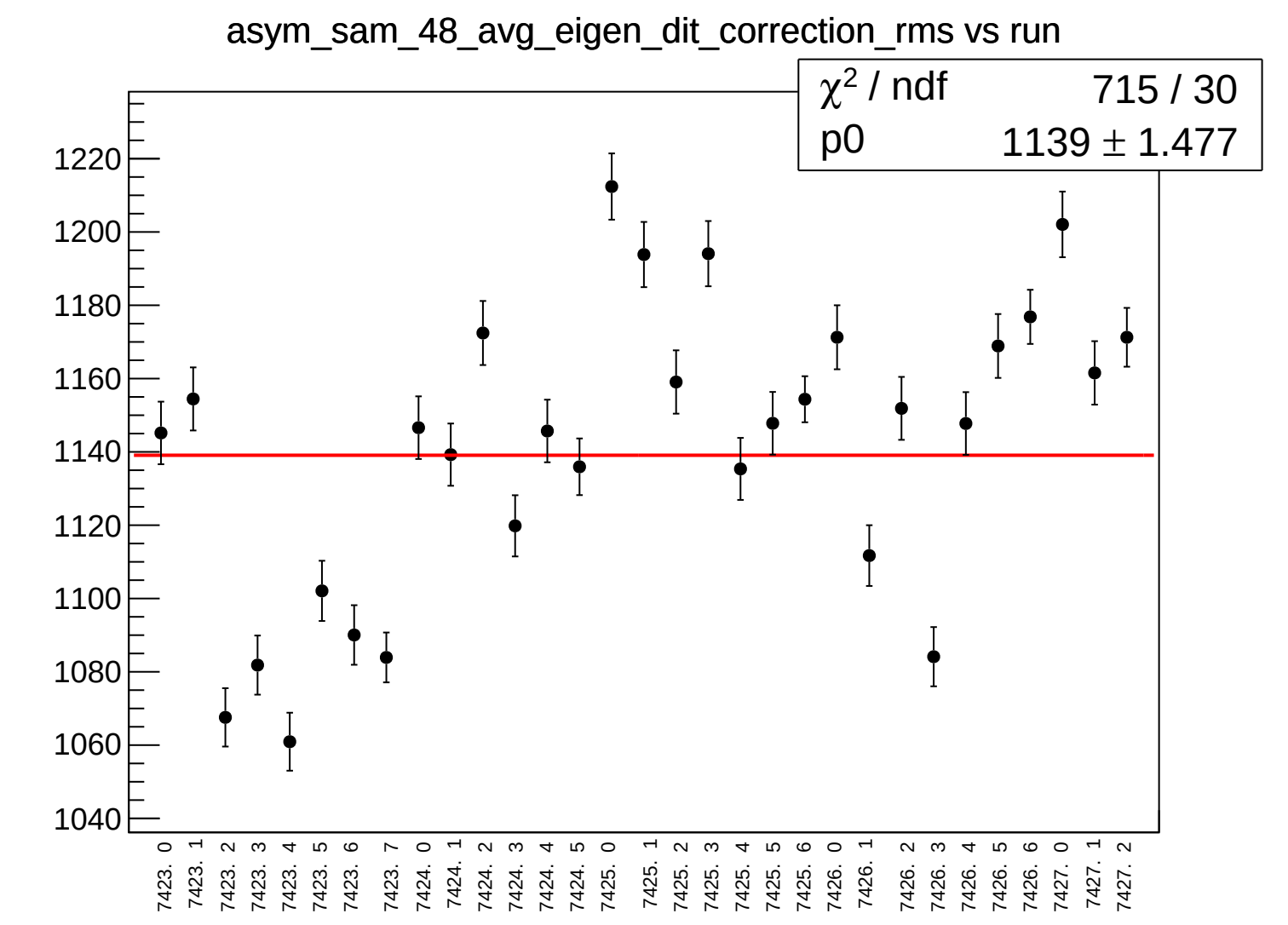

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 25.45 / 30
p0 −569.8 ± 520.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 105
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

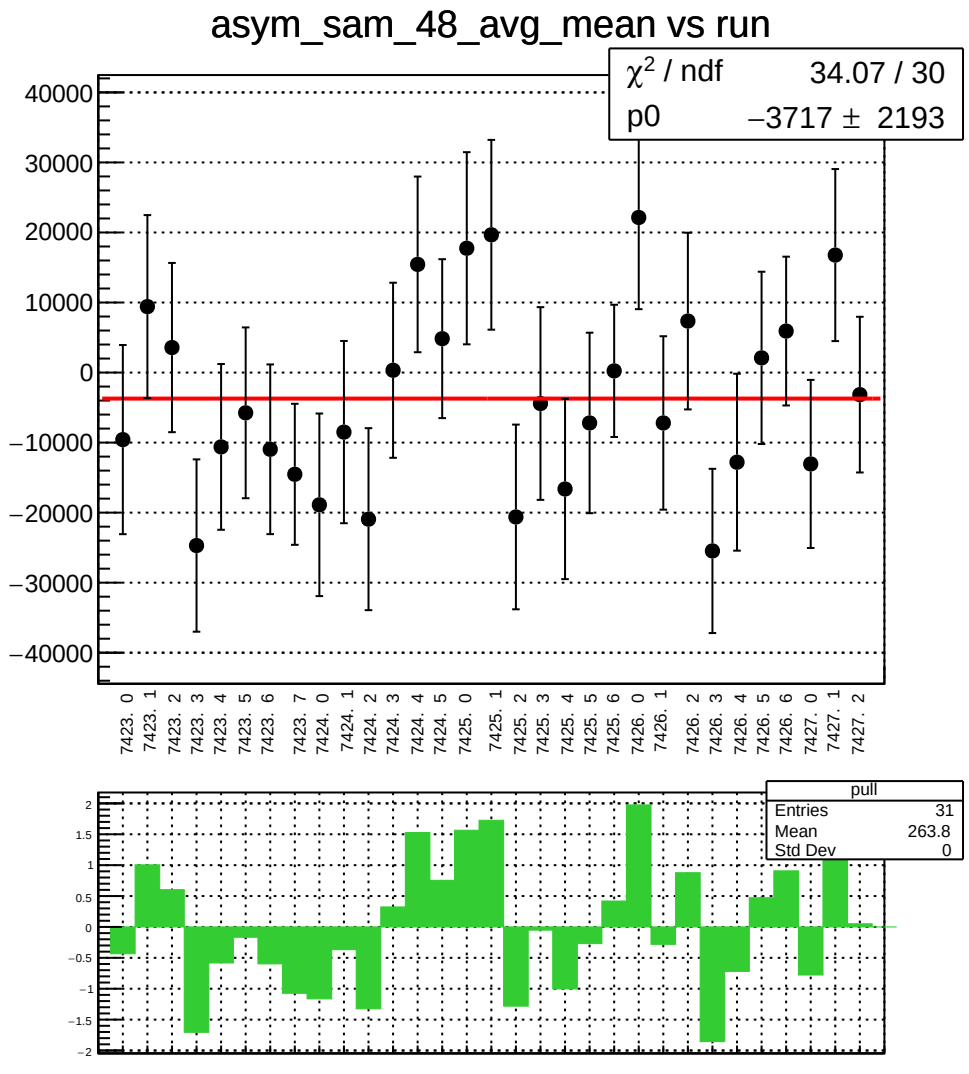

pull1D
Entries 31
Mean −0.01235
Std Dev 0.9059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

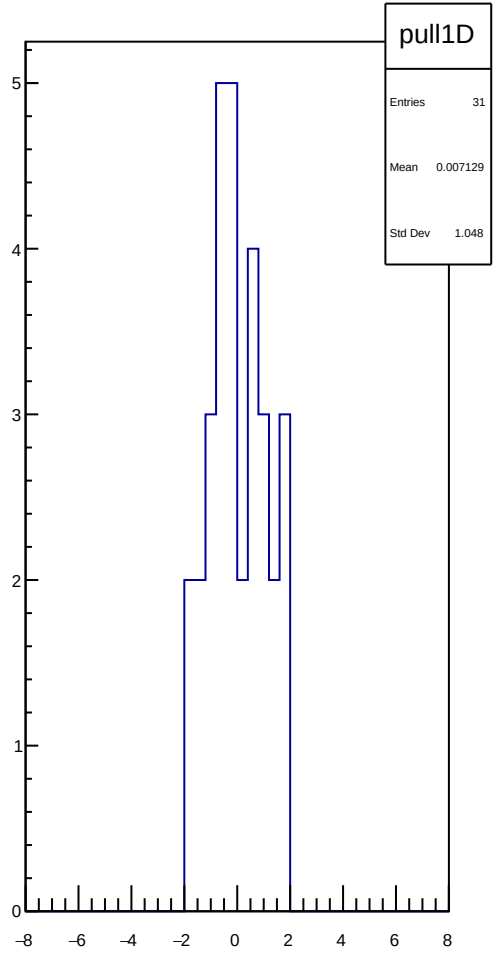

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 3801 / 30
p0 283.2 ± 0.3681
380
360
340
320
300
280
260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

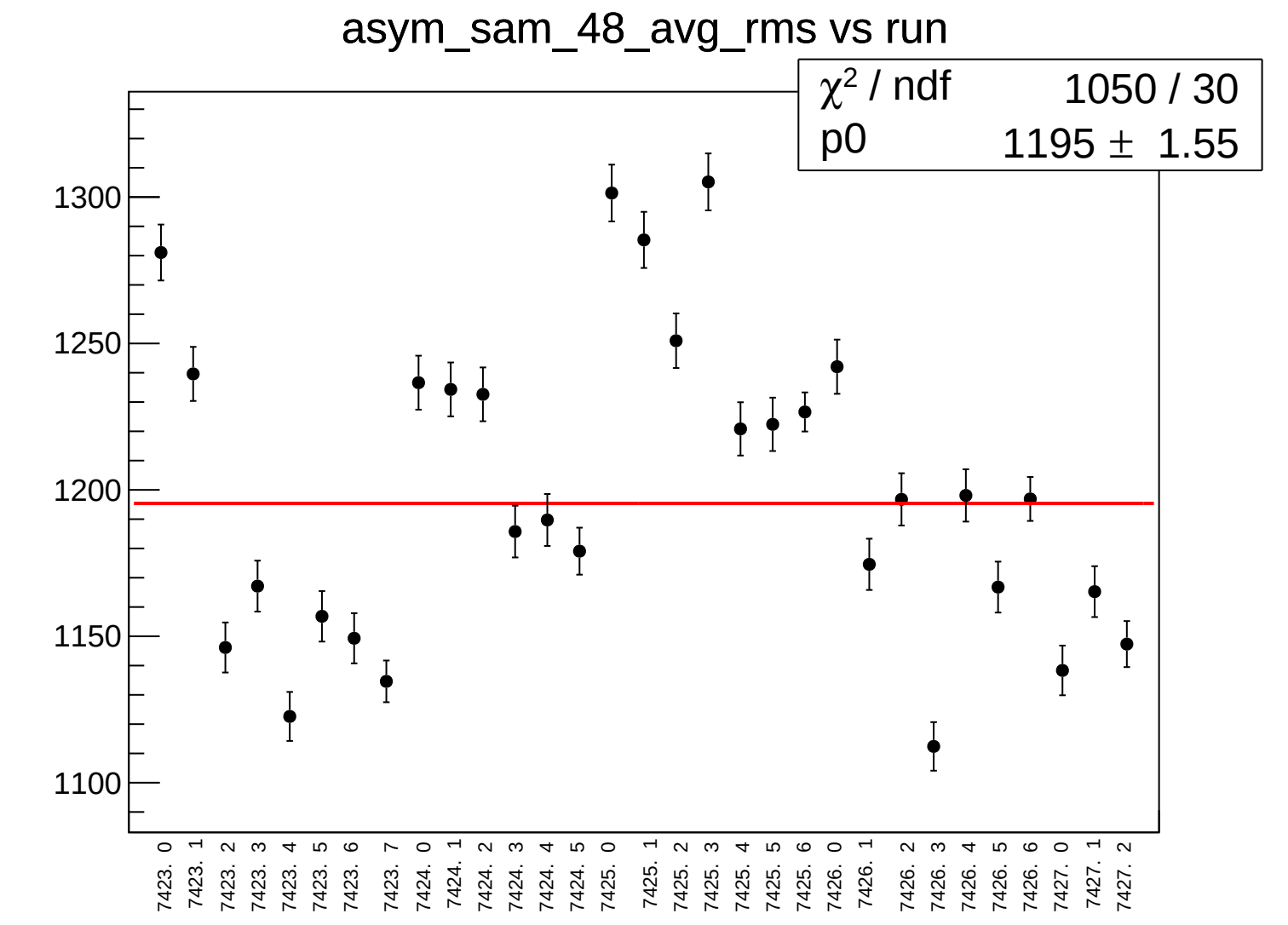

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 34.35 / 30
p0 3082 ± 2089
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 274.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

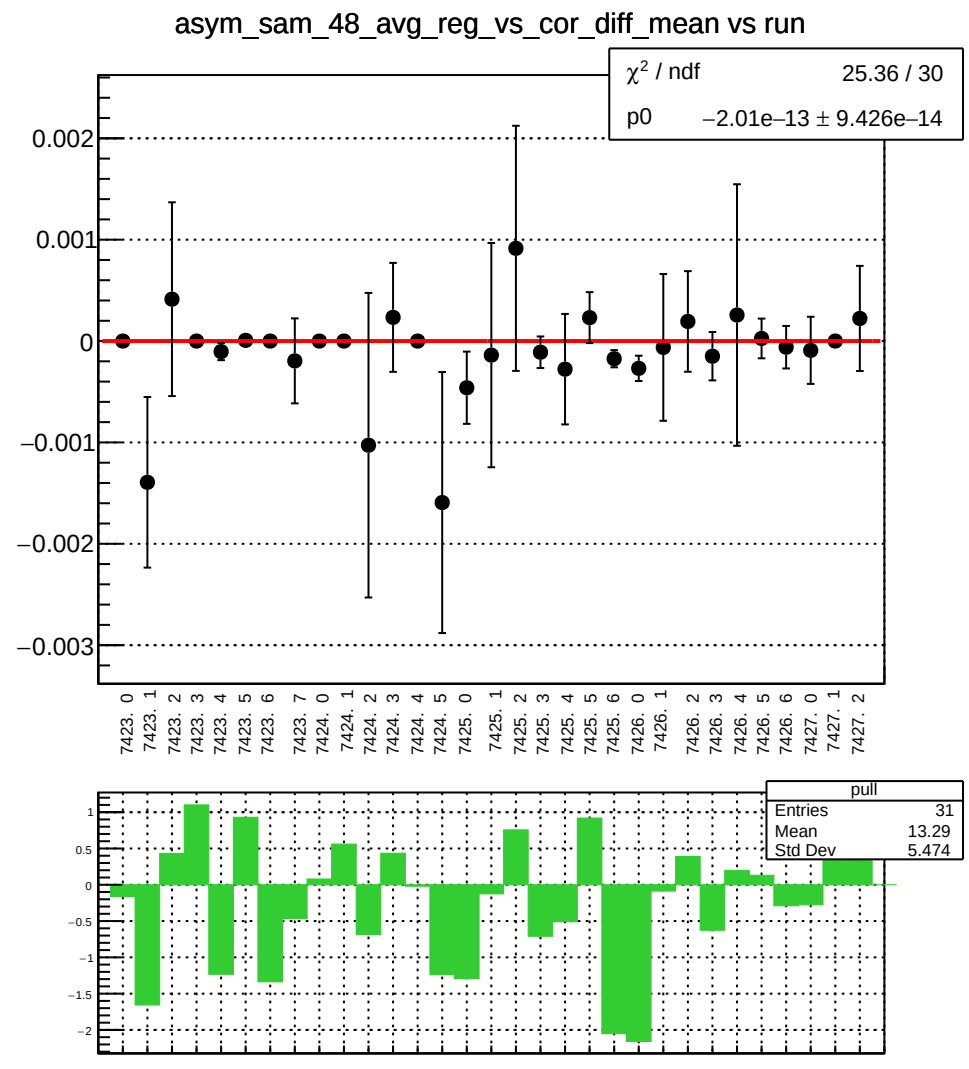

pull1D
Entries 31
Mean −0.008455
Std Dev 1.053
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

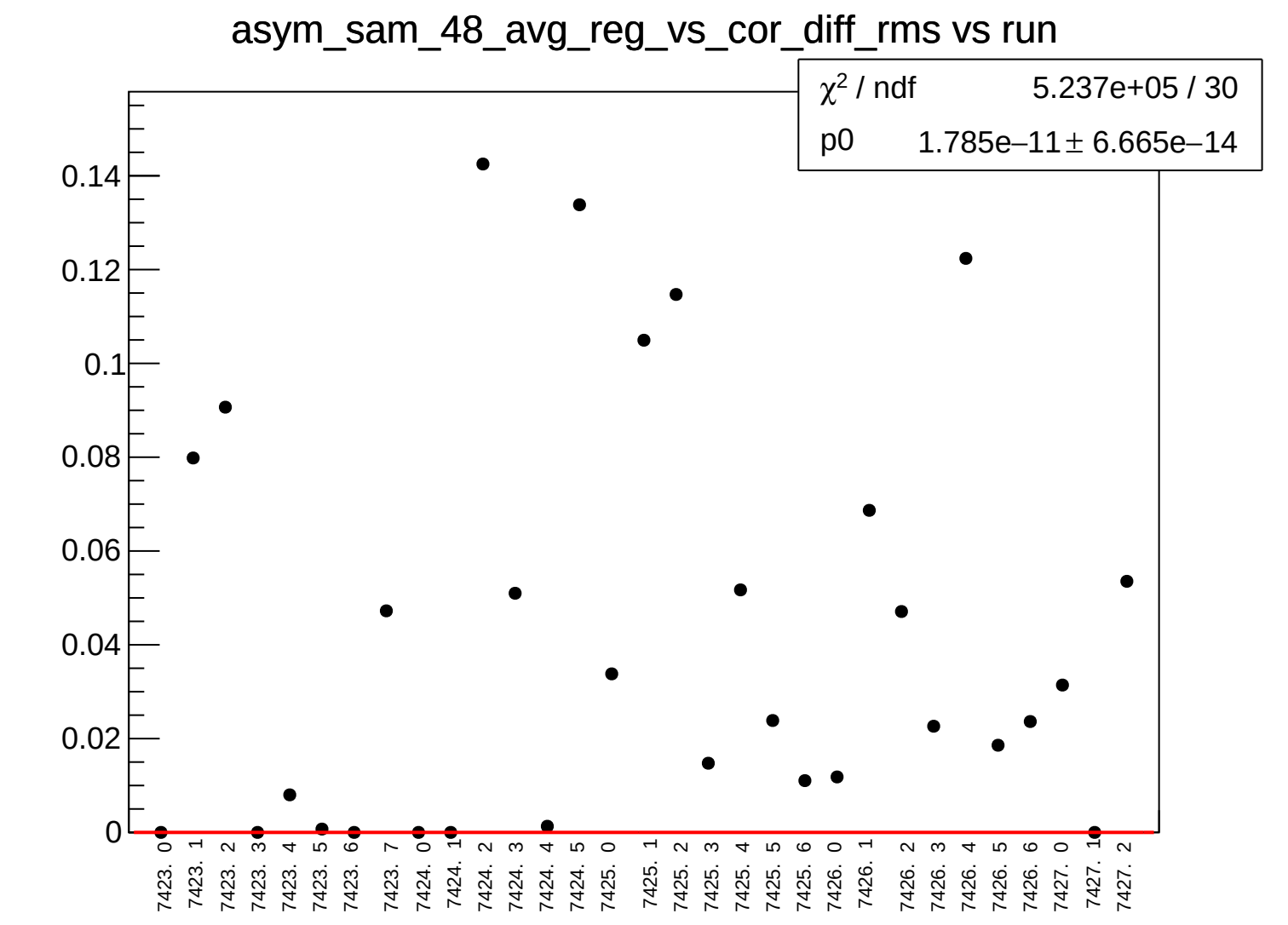

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 715 / 30
p0 1139 ± 1.477
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

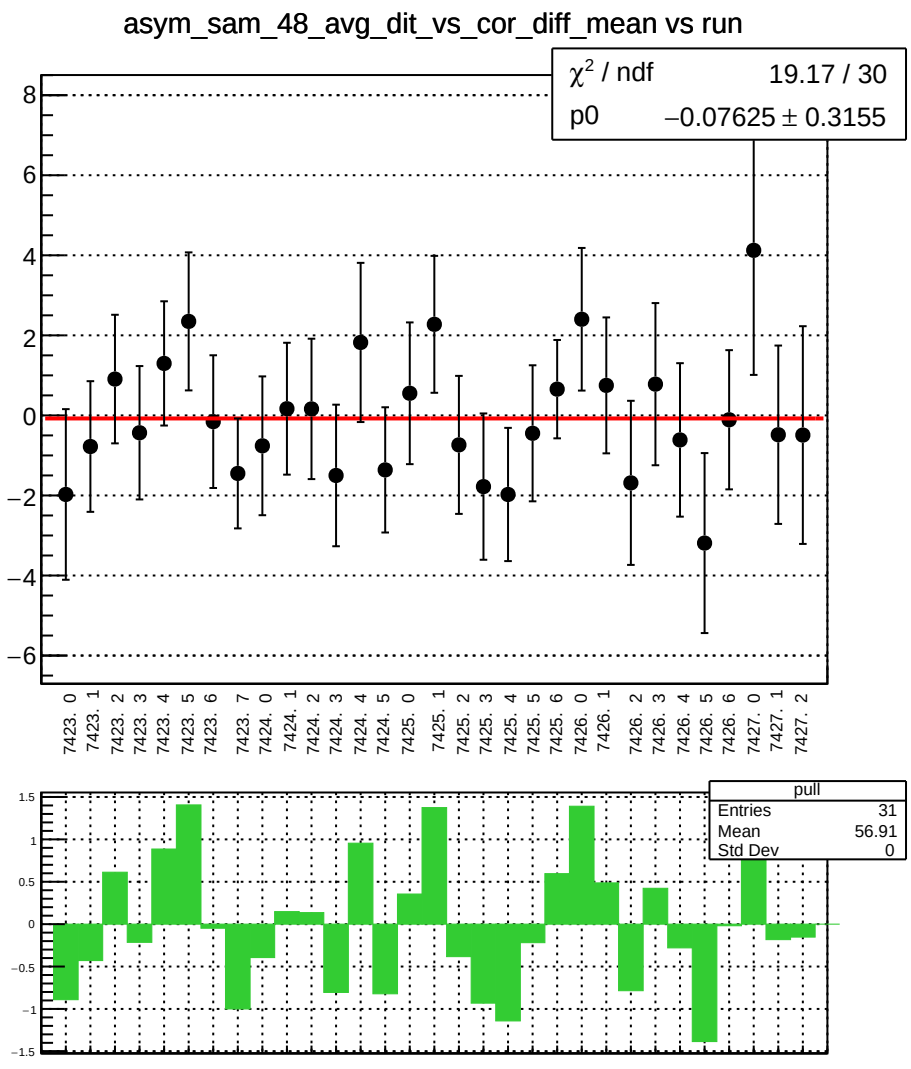

asym_sam_48_avg_mean vs run
χ² / ndf 34.07 / 30
p0 −3717 ± 2193
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 263.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

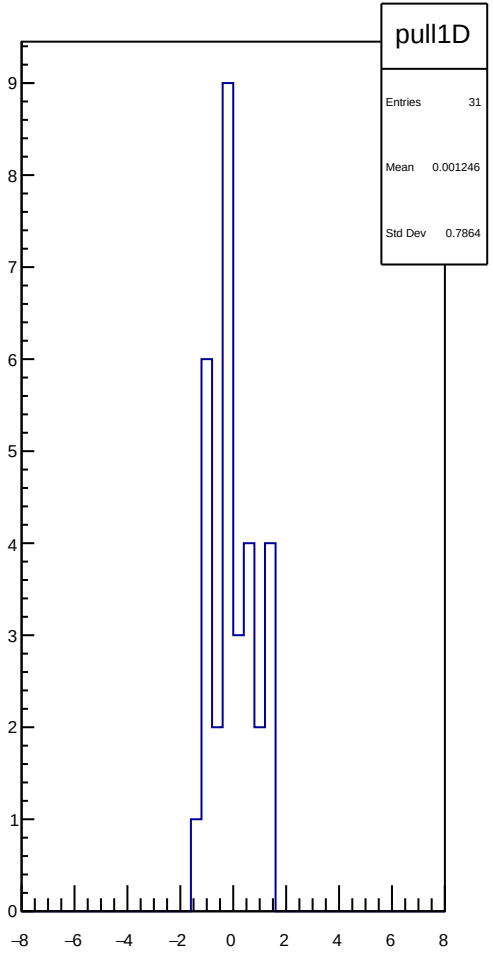

pull1D
Entries 31
Mean 0.007129
Std Dev 1.048
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

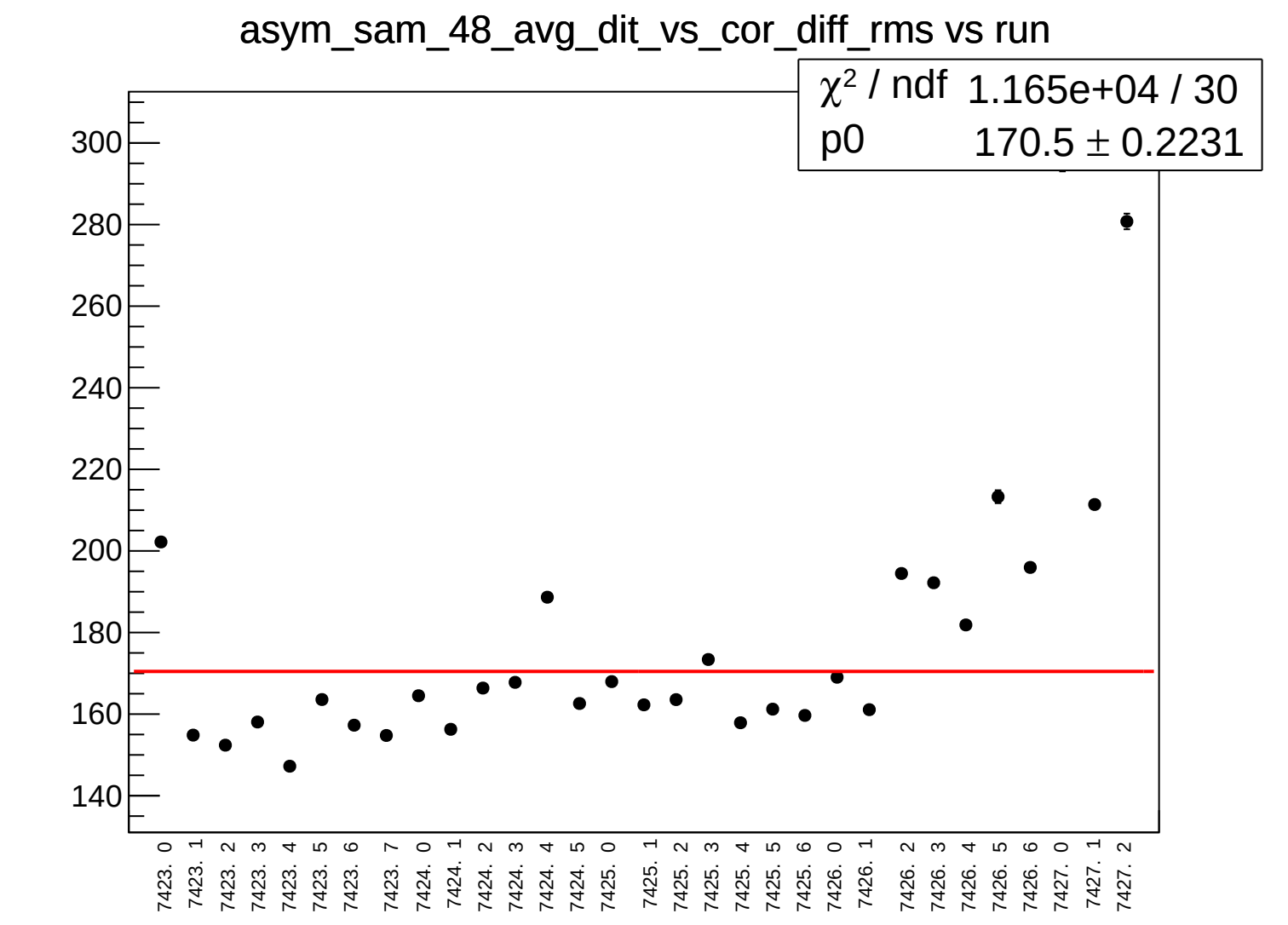

asym_sam_48_avg_rms vs run
χ² / ndf 1050 / 30
p0 1195 ± 1.55
1300
1250
1200
1150
1100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

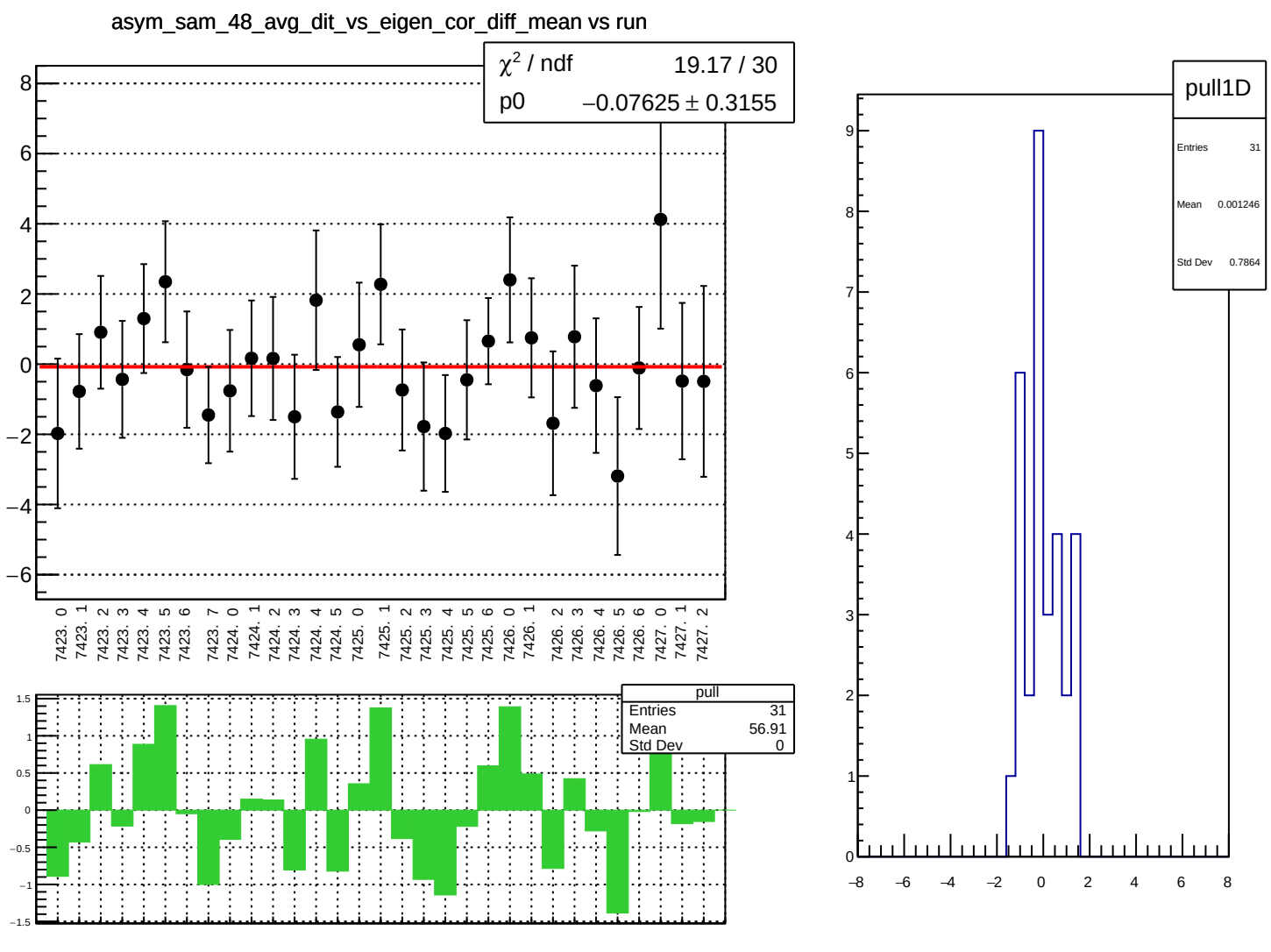

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.36 / 30
p0 −2.01e−13 ± 9.426e−14
0.002
0.001
0
−0.001
−0.002
−0.003
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 13.29
Std Dev 5.474
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.2511
Std Dev 0.8689
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

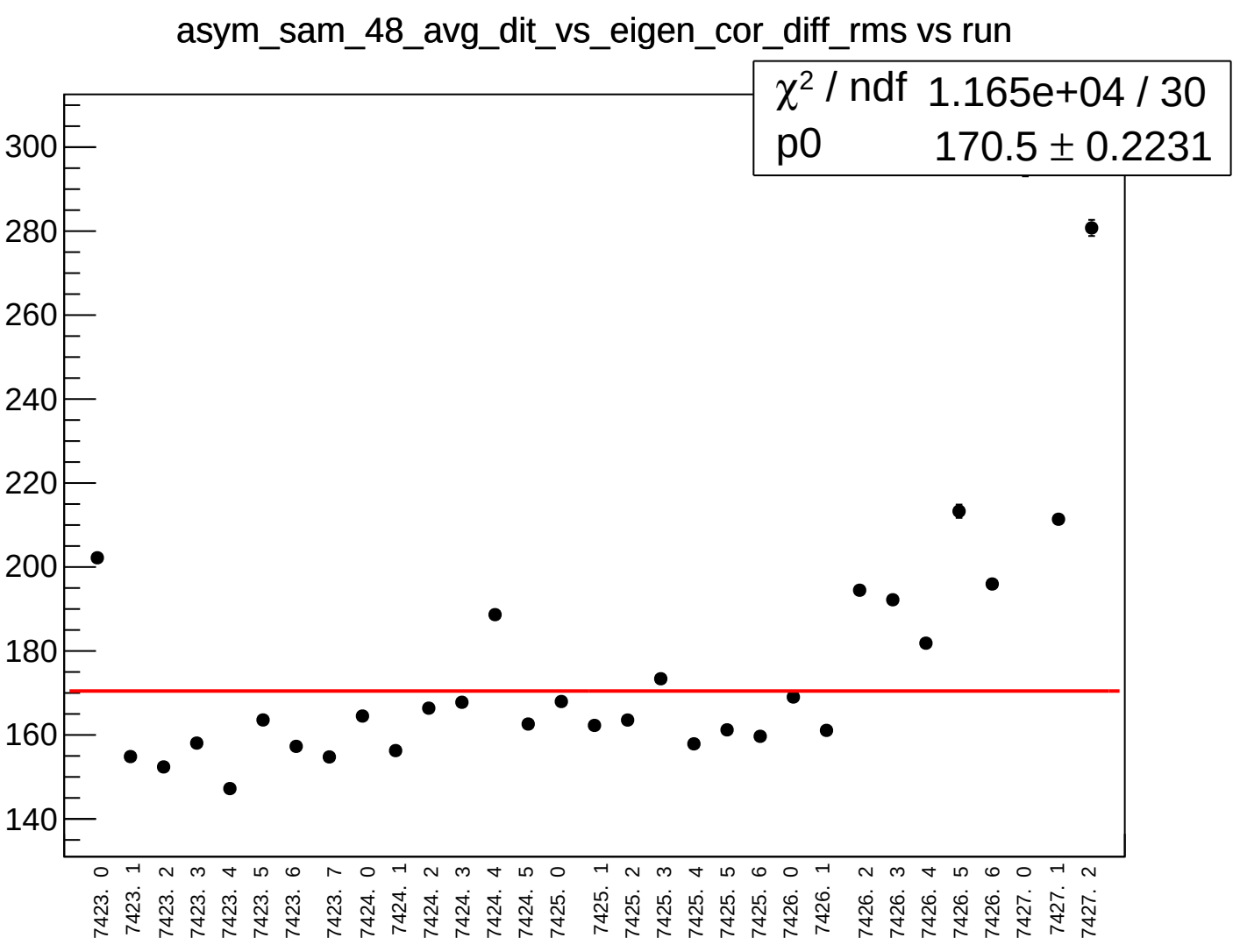

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.237e+05 / 30
p0 1.785e−11 ± 6.665e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

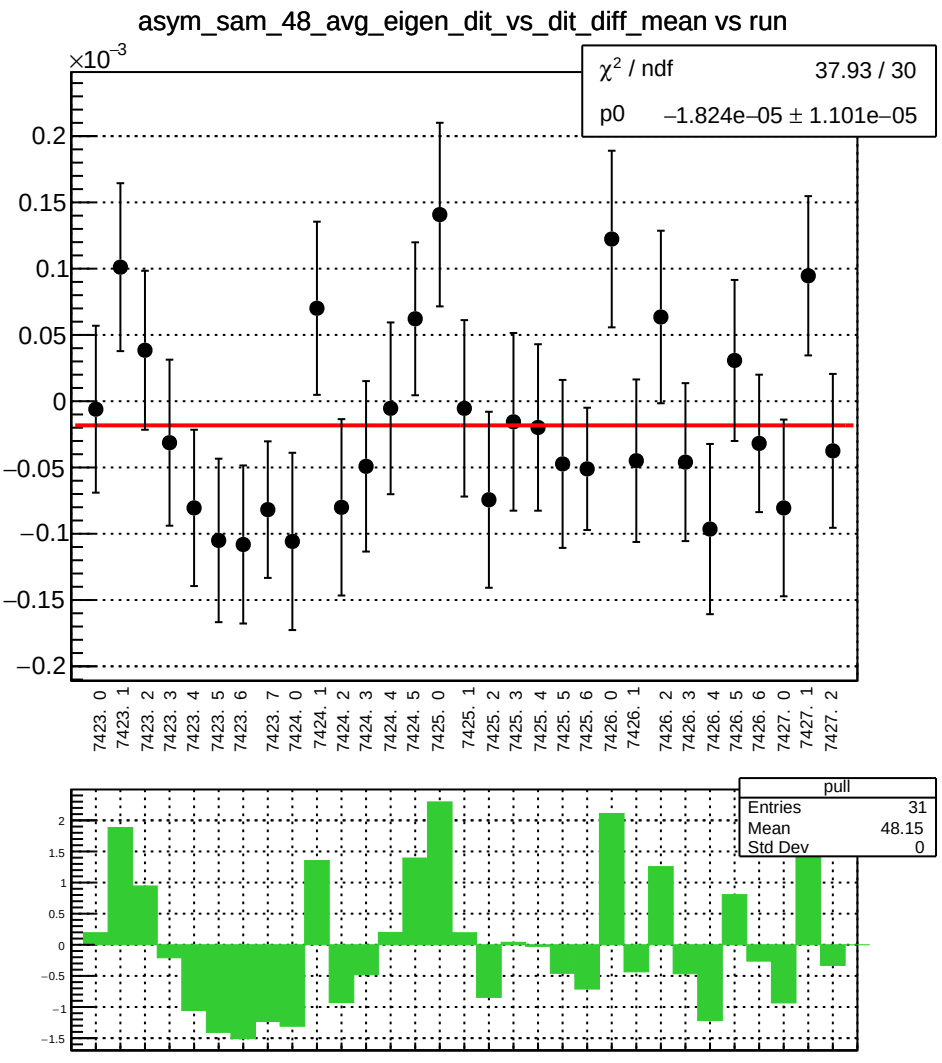

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 19.17 / 30
p0 −0.07625 ± 0.3155
8
6
4
2
0
−2
−4
−6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 56.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

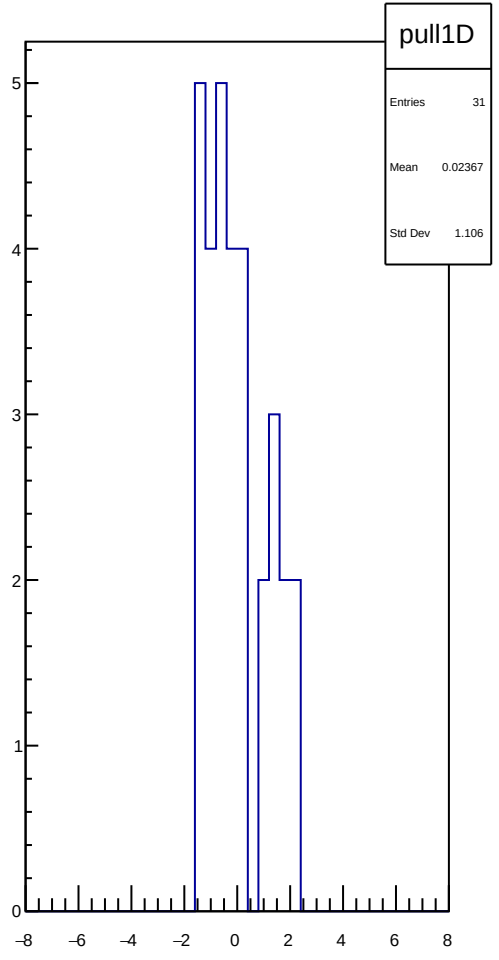

pull1D
Entries 31
Mean 0.001246
Std Dev 0.7864
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

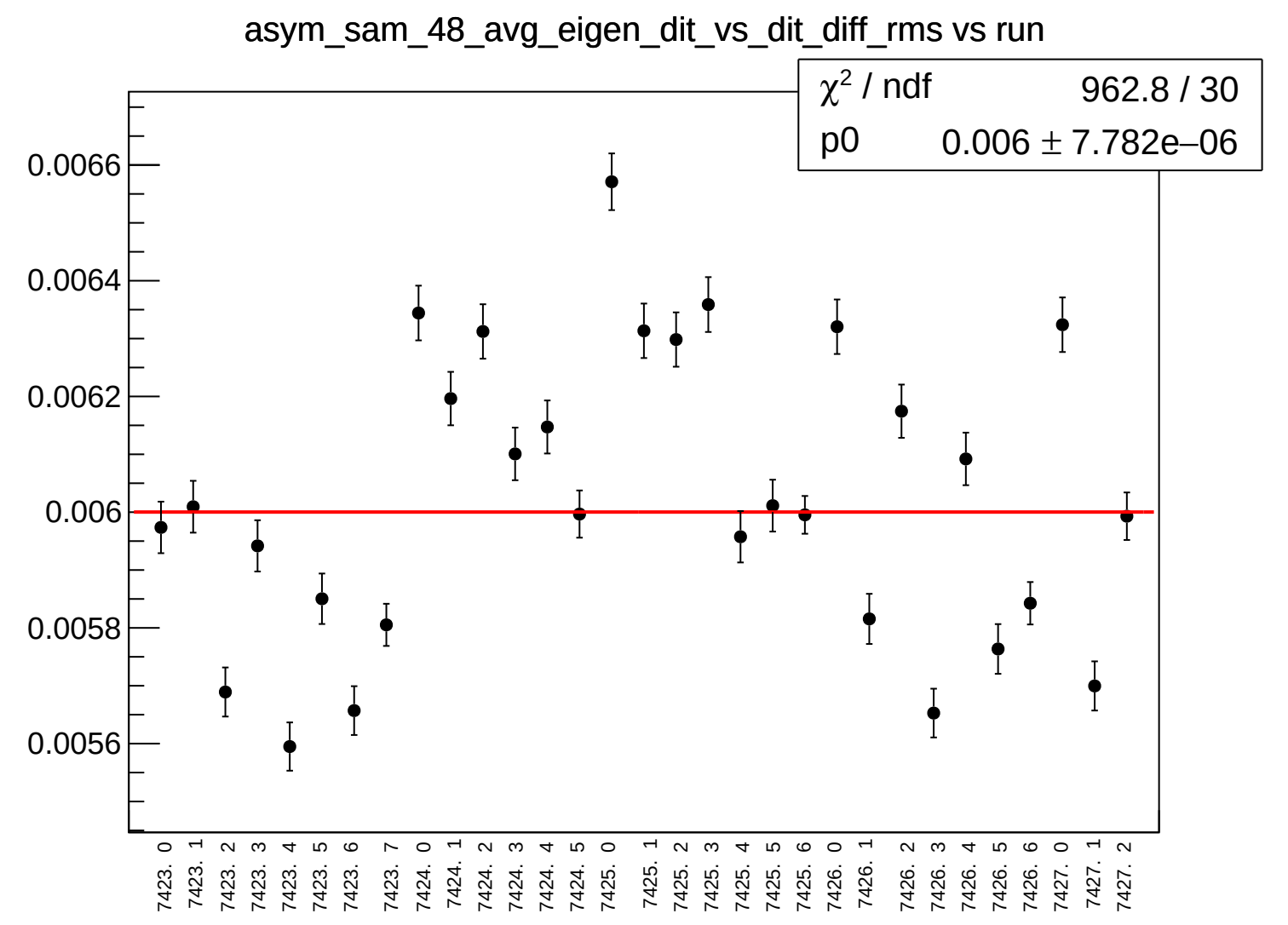

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 30
p0 170.5 ± 0.2231
300
280
260
240
220
200
180
160
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

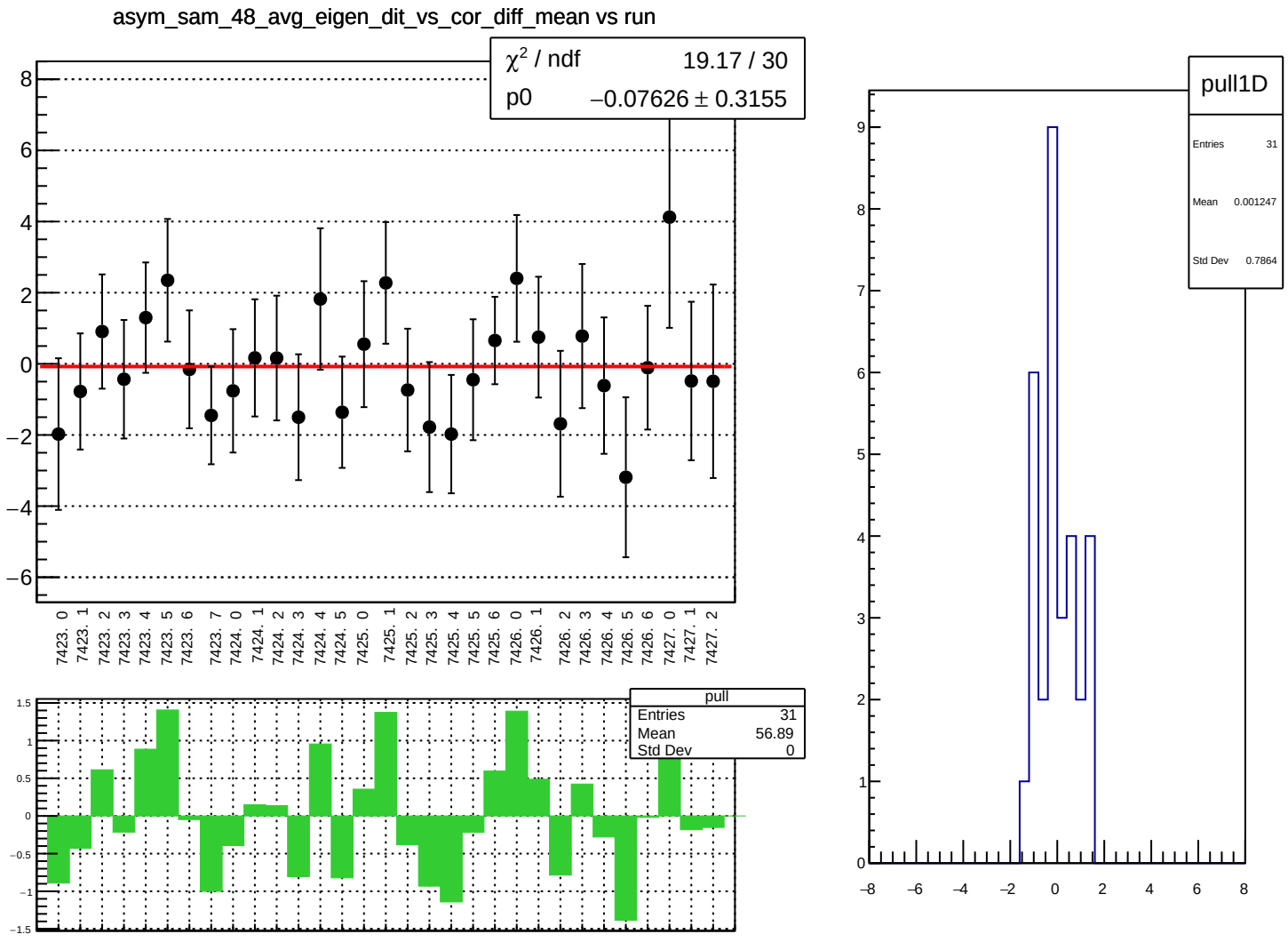

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.17 / 30
p0 −0.07625 ± 0.3155
pull
Entries 31
Mean 56.91
Std Dev 0
pull1D
Entries 31
Mean 0.001246
Std Dev 0.7864

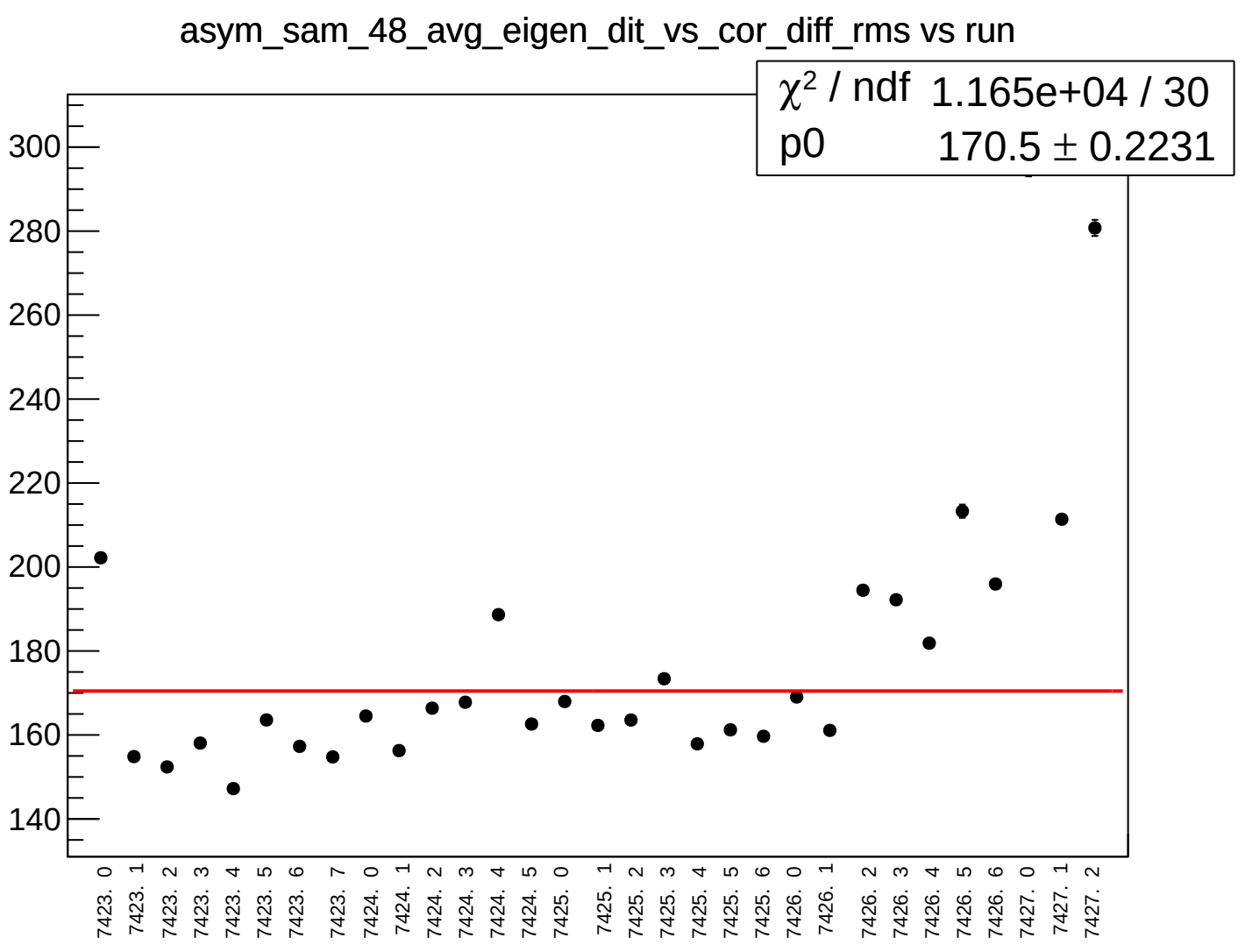

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 30
p0 170.5 ± 0.2231
300
280
260
240
220
200
180
160
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

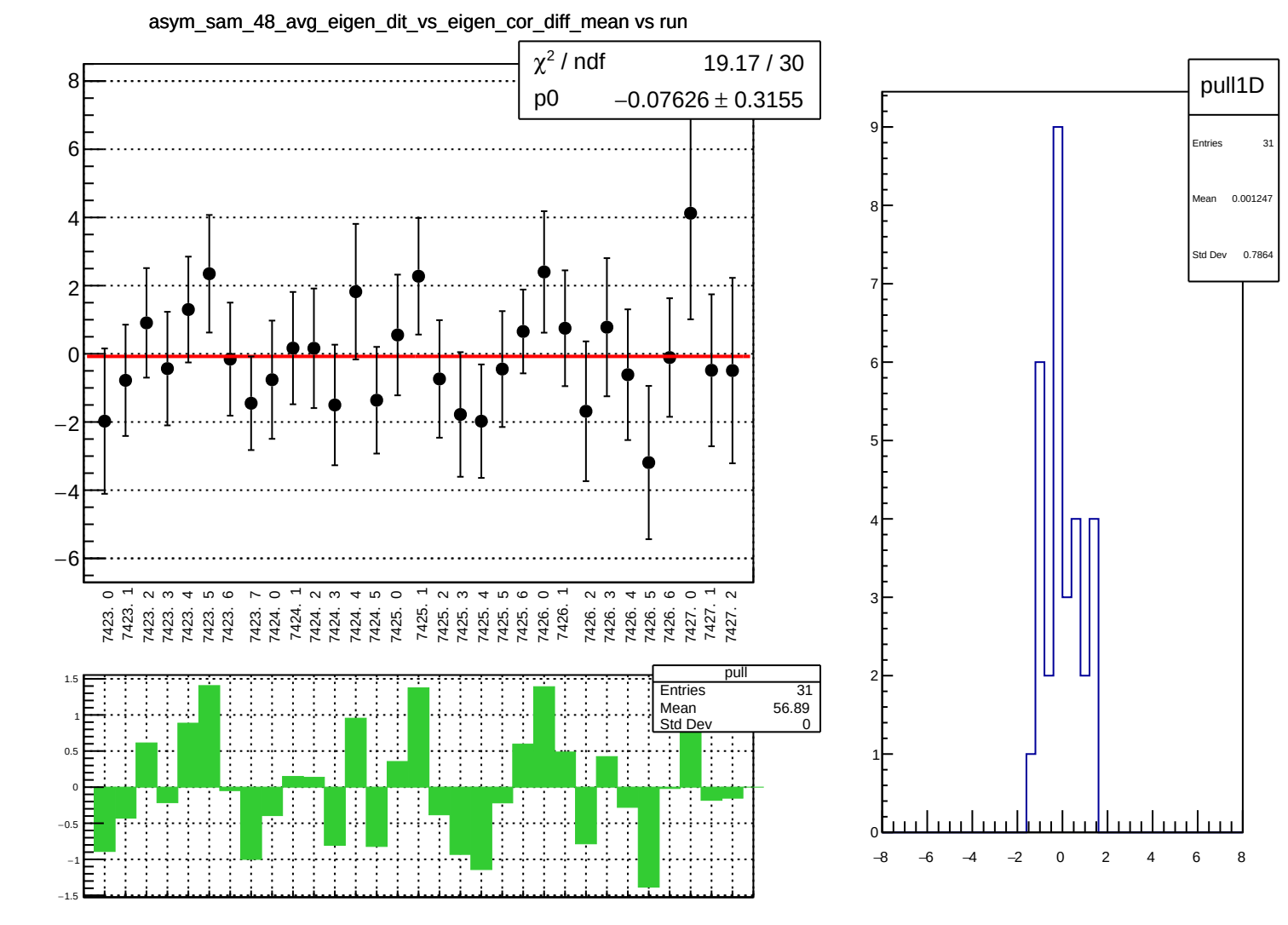

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 37.93 / 30
p0 −1.824e−05 ± 1.101e−05
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 48.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

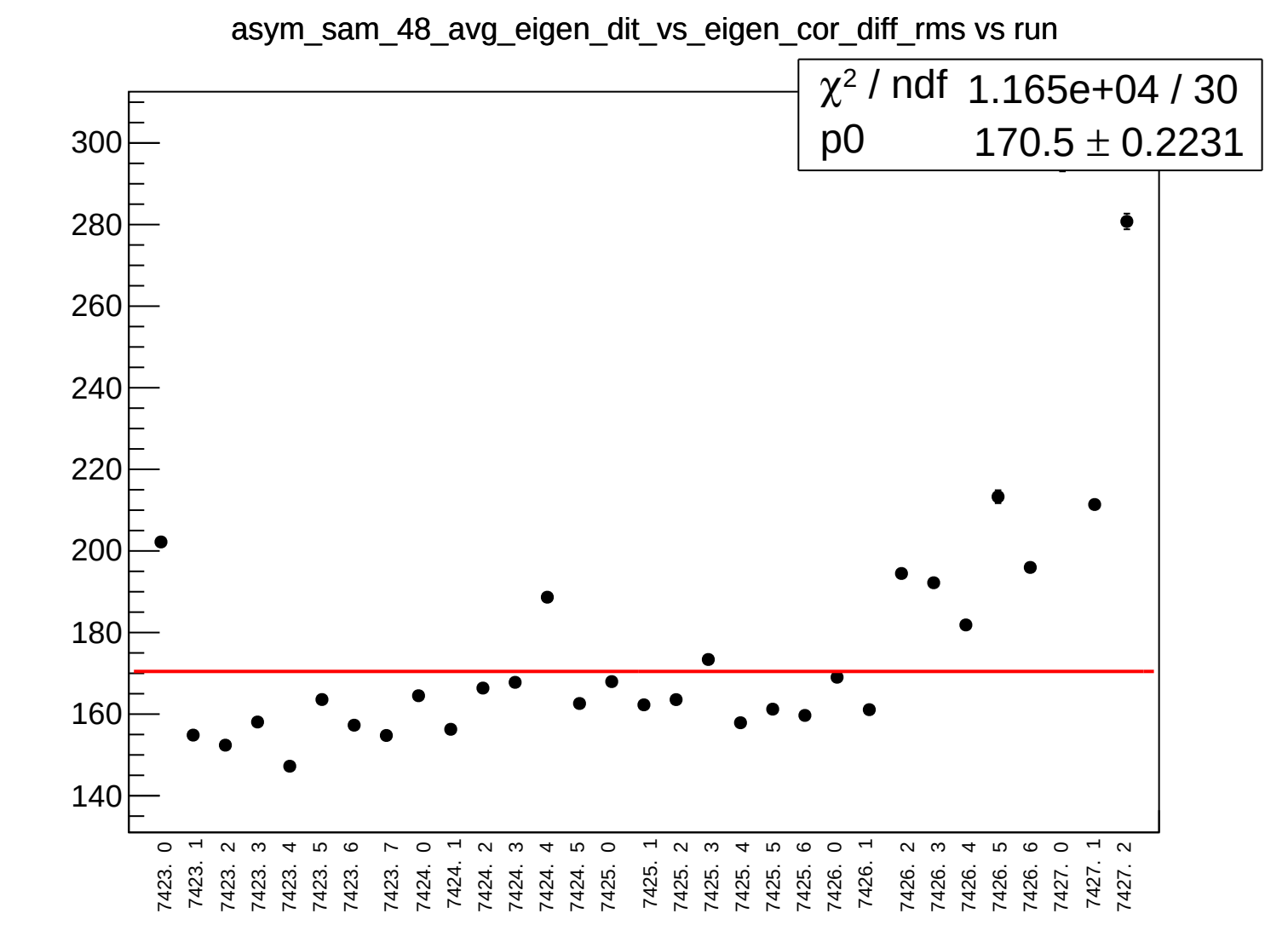

pull1D
Entries 31
Mean 0.02367
Std Dev 1.106
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

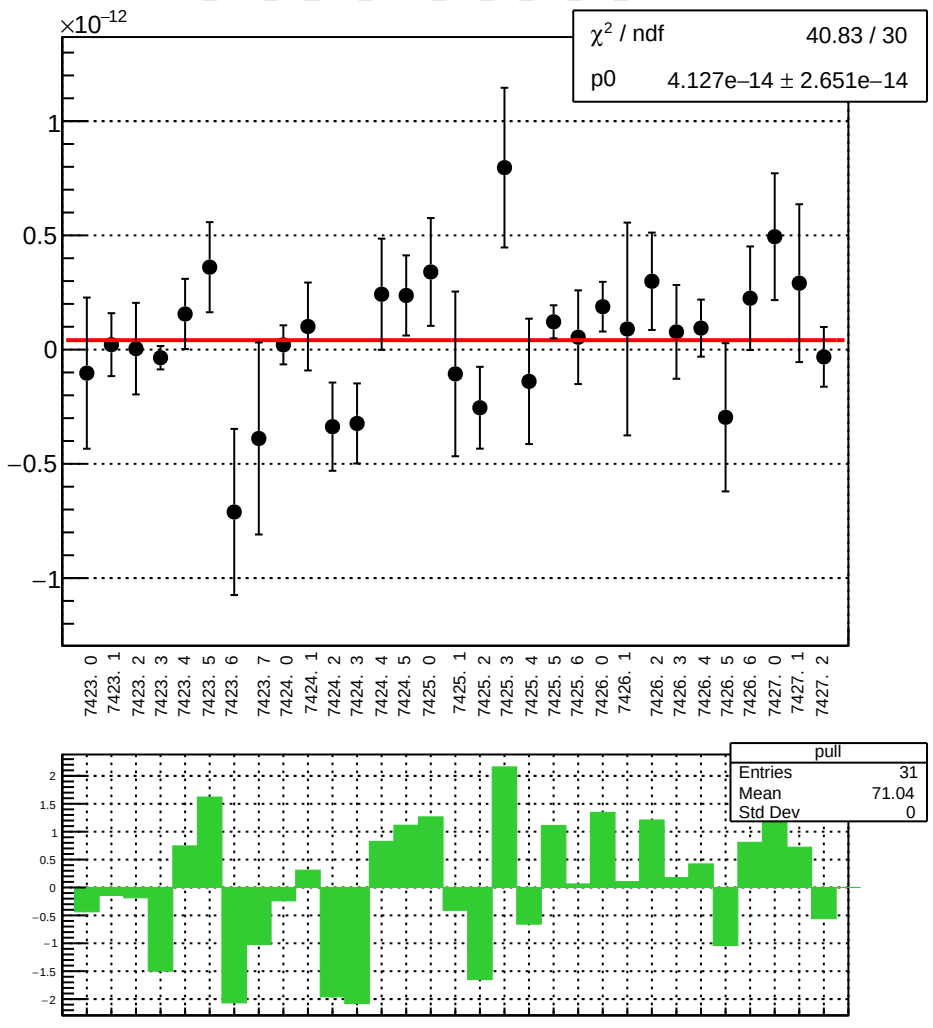

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 962.8 / 30
p0 0.006 ± 7.782e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

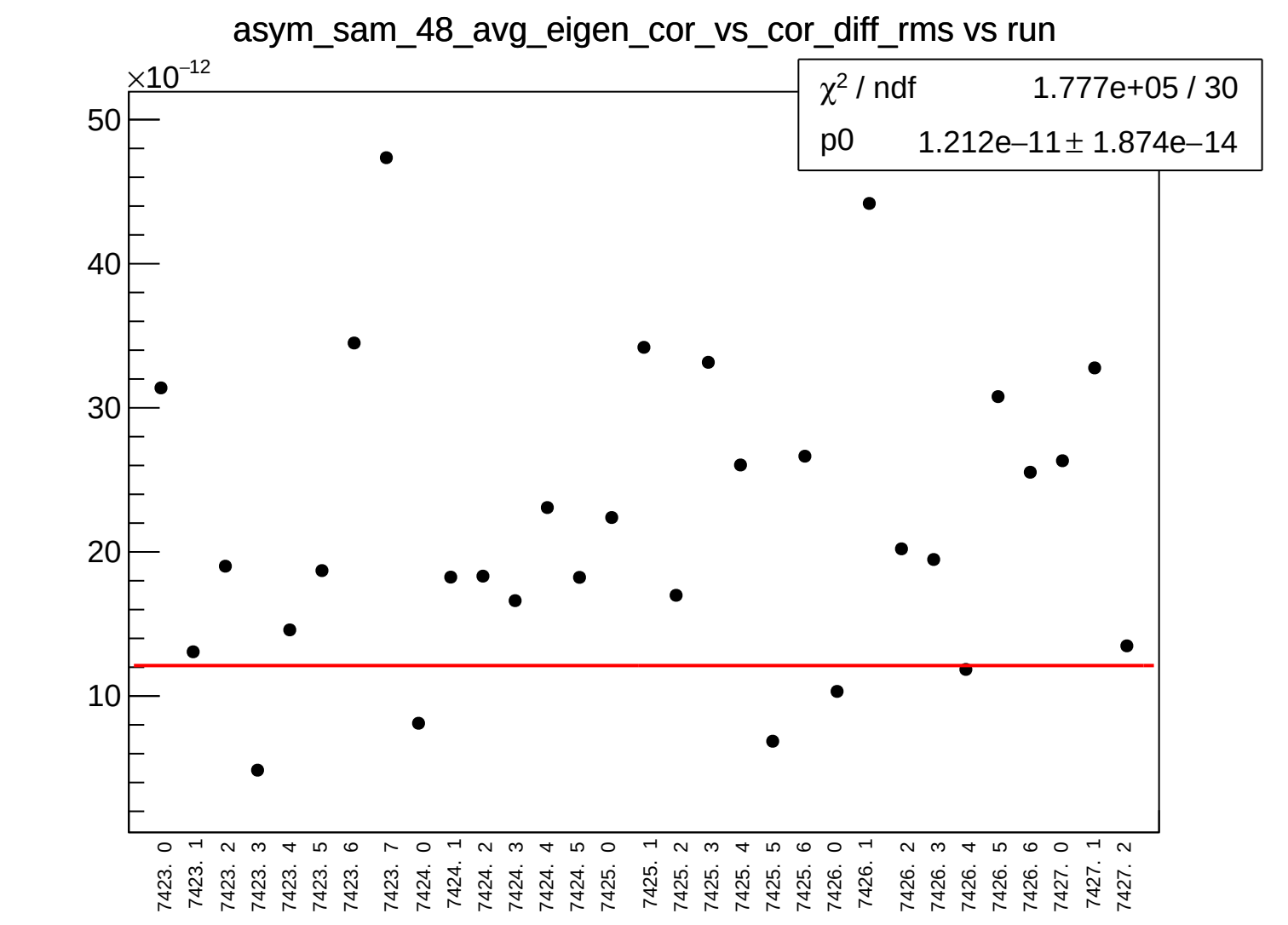

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.17 / 30
p0 −0.07626 ± 0.3155
pull
Entries 31
Mean 56.89
Std Dev 0
pull1D
Entries 31
Mean 0.001247
Std Dev 0.7864

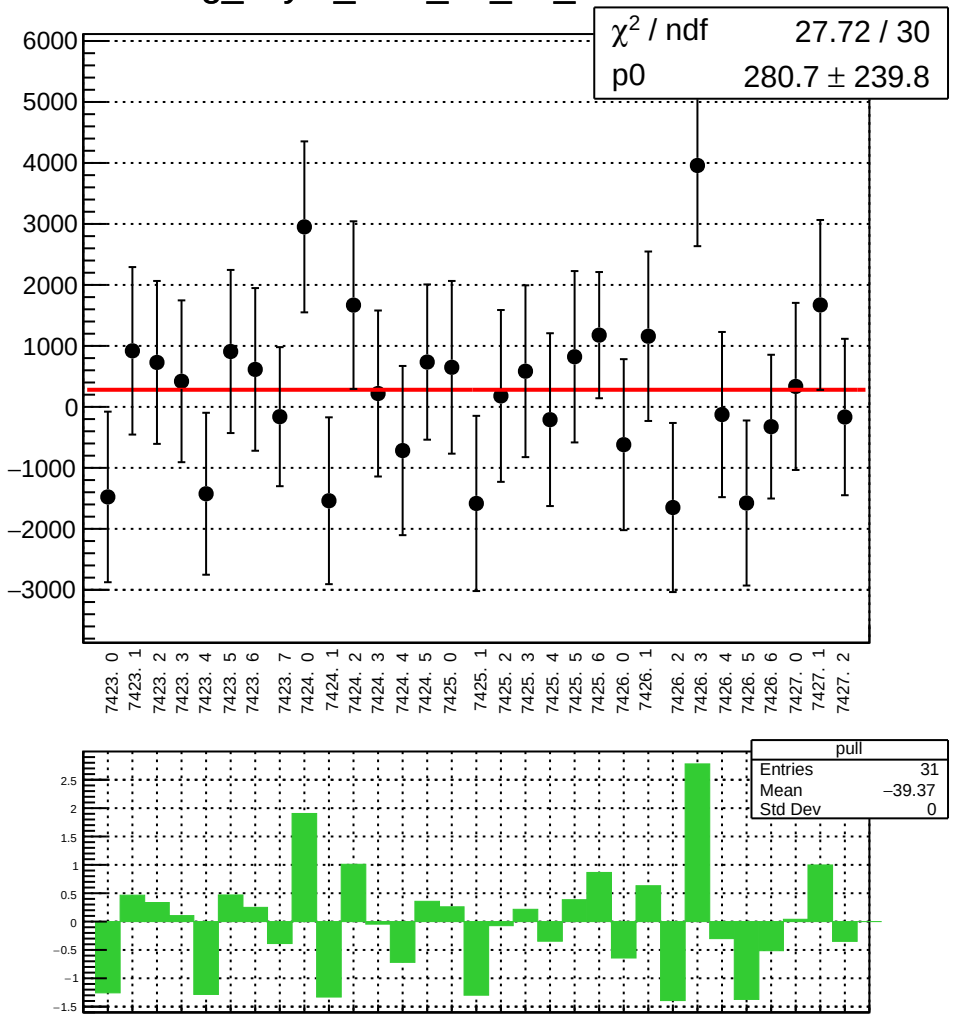

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 30
p0 170.5 ± 0.2231
300
280
260
240
220
200
180
160
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

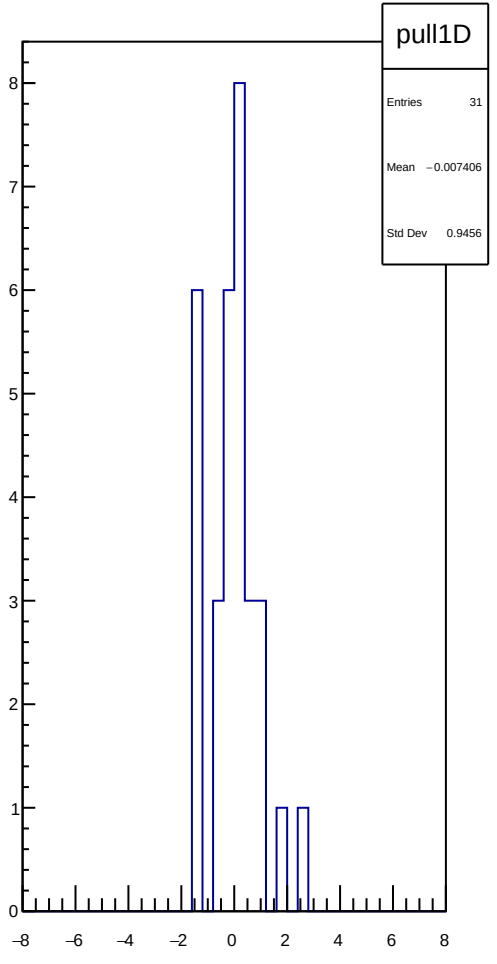

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.17 / 30
p0 −0.07626 ± 0.3155
pull
Entries 31
Mean 56.89
Std Dev 0
pull1D
Entries 31
Mean 0.001247
Std Dev 0.7864

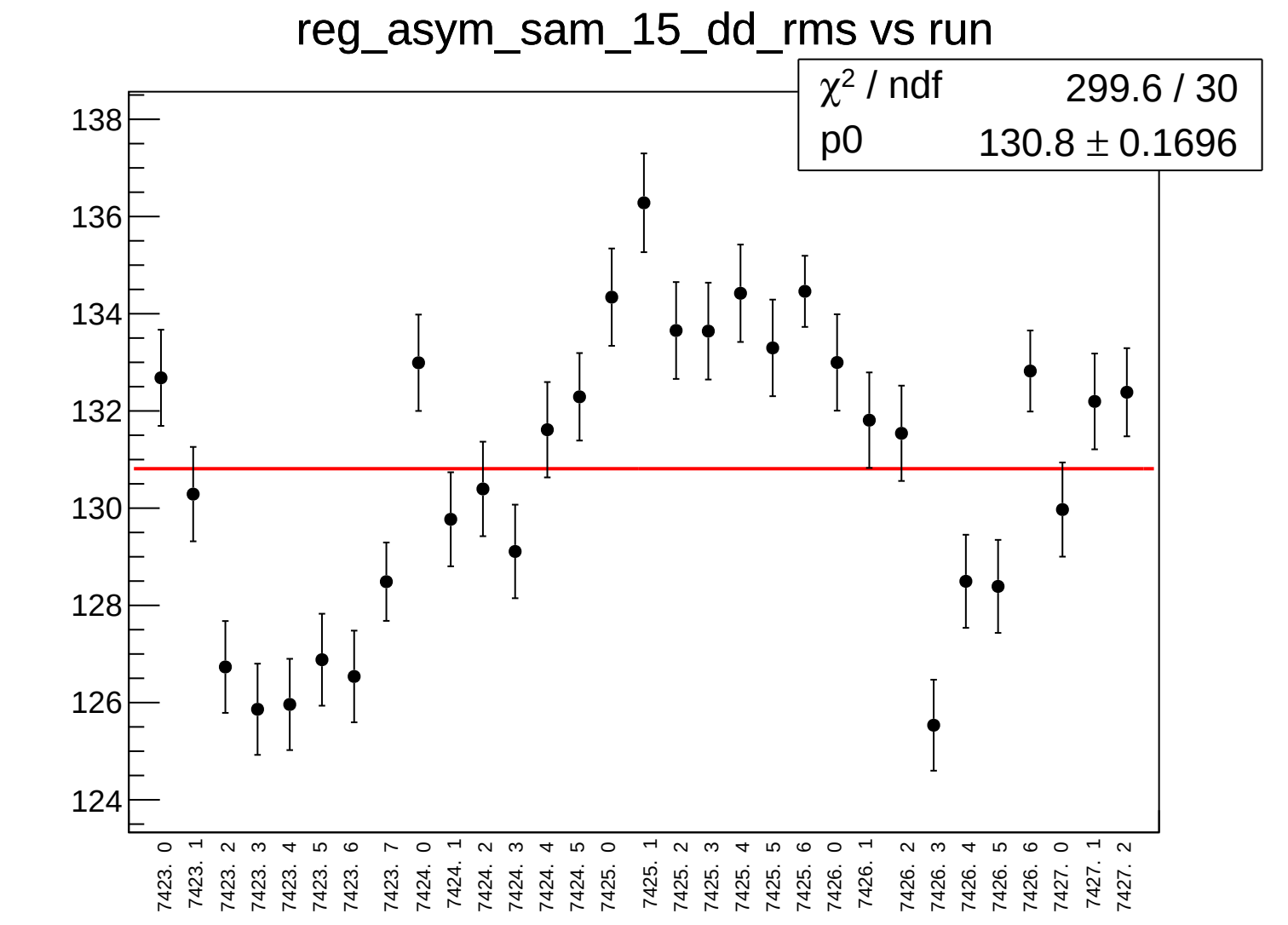

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 30
p0 170.5 ± 0.2231
300
280
260
240
220
200
180
160
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

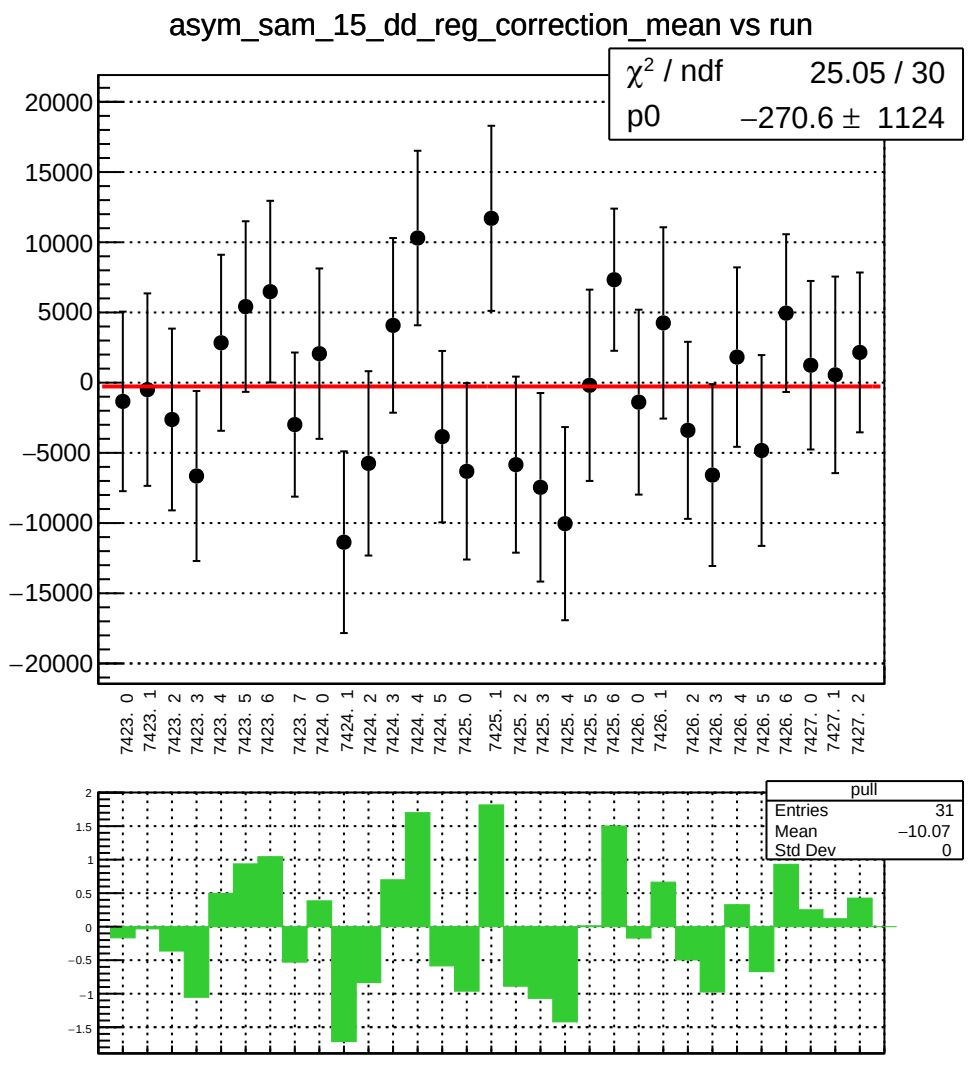

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.83 / 30
p0 4.127e−14 ± 2.651e−14
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 71.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.05476
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

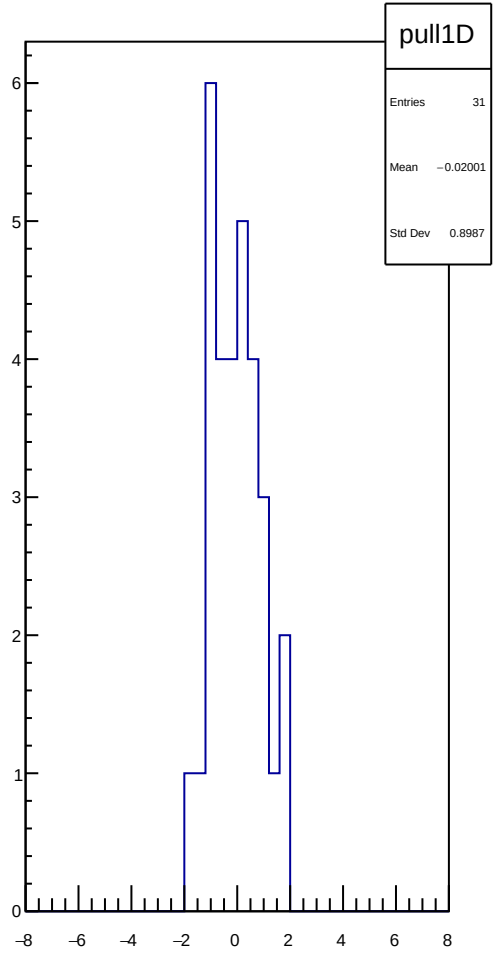

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
50
40
30
20
10
χ² / ndf 1.777e+05 / 30
p0 1.212e−11 ± 1.874e−14
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

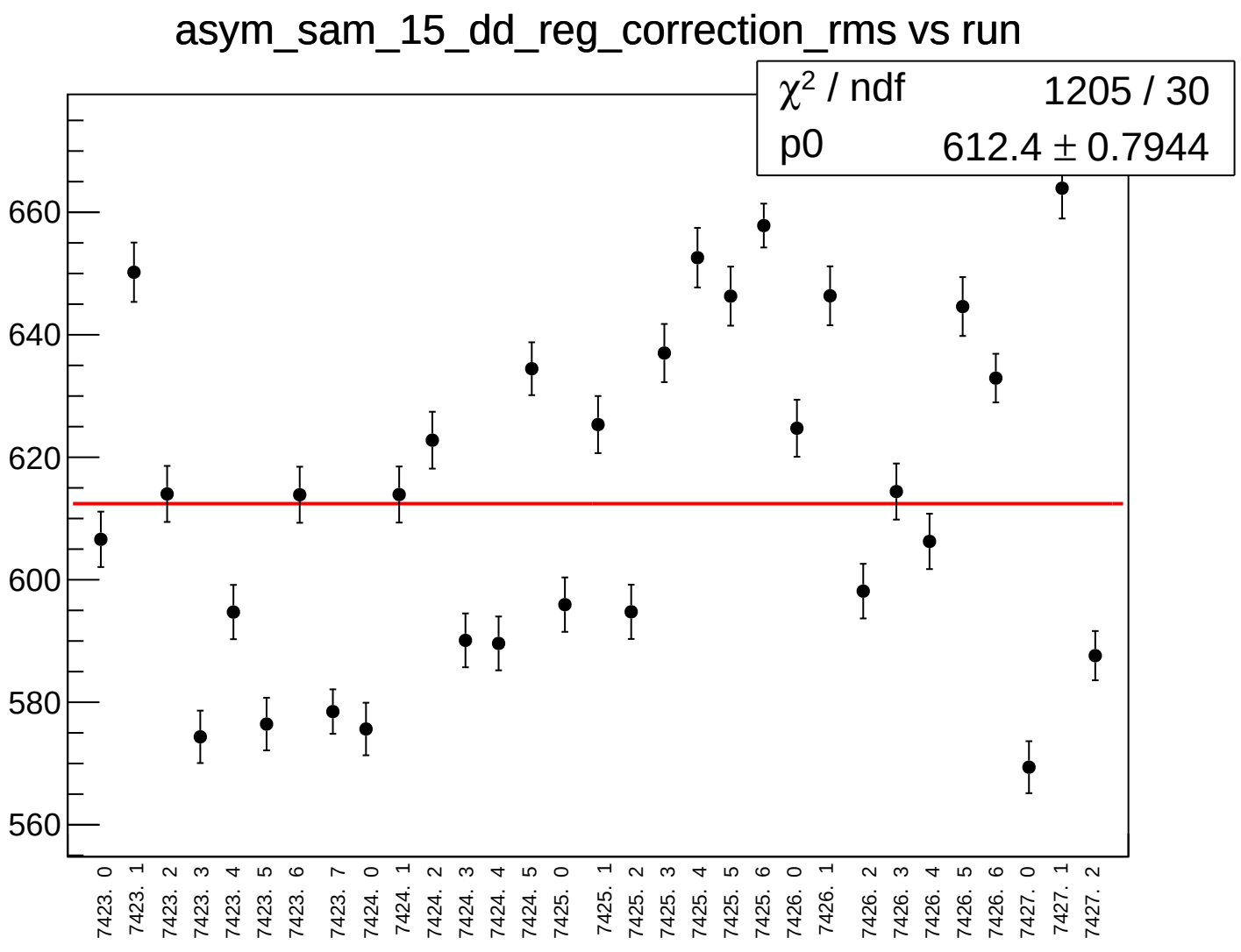

reg_asym_sam_15_dd_mean vs run
χ² / ndf 27.72 / 30
p0 280.7 ± 239.8
pull
Entries 31
Mean −39.37
Std Dev 0

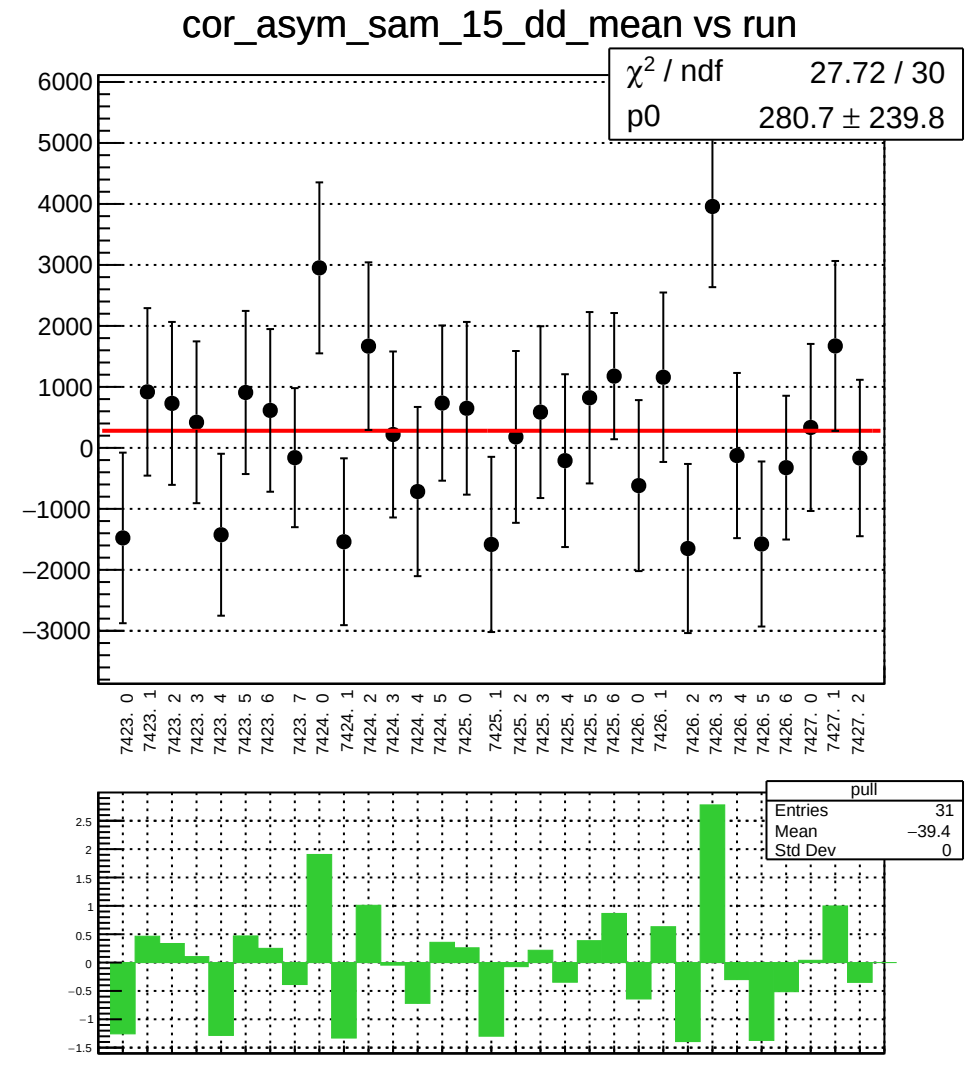

pull1D
Entries 31
Mean −0.007406
Std Dev 0.9456

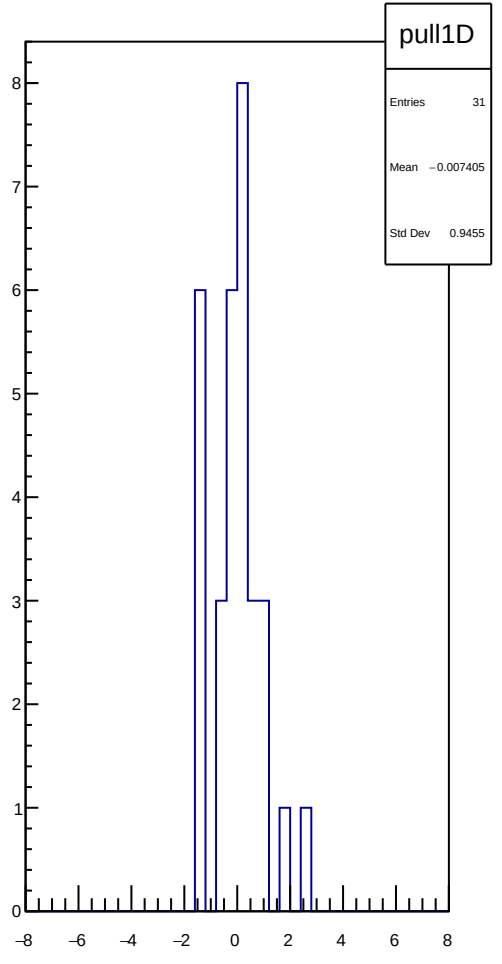

reg_asym_sam_15_dd_rms vs run
χ² / ndf 299.6 / 30
p0 130.8 ± 0.1696
138
136
134
132
130
128
126
124
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

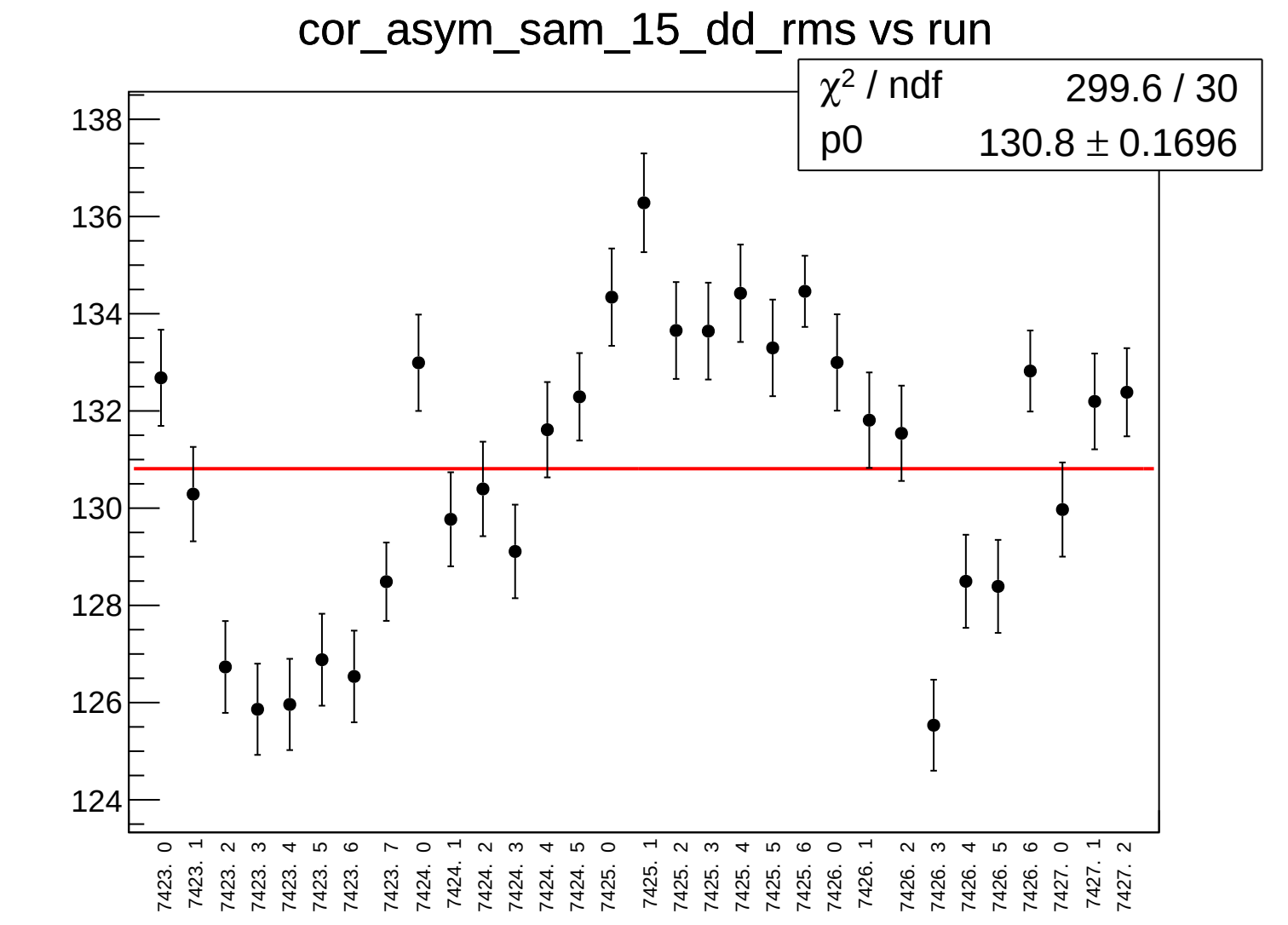

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 25.05 / 30
p0 −270.6 ± 1124
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −10.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

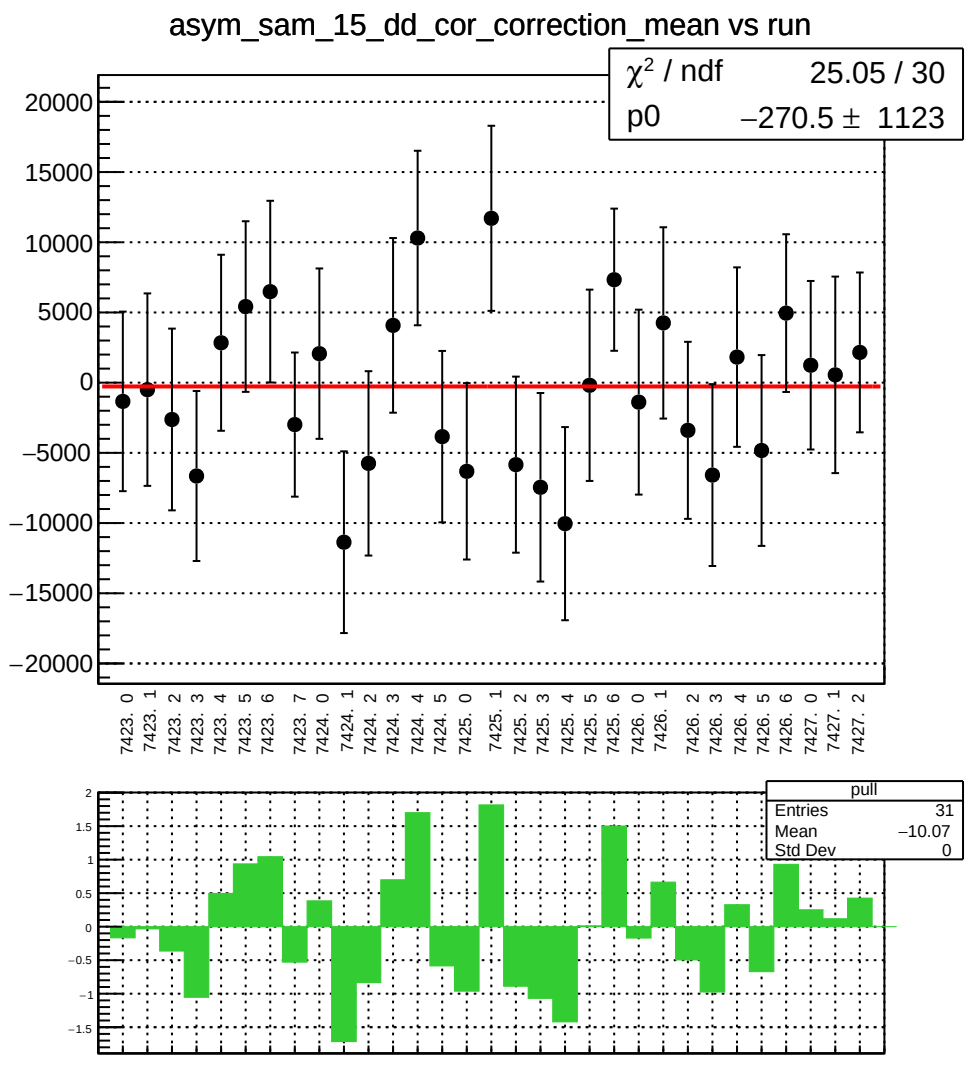

pull1D
Entries 31
Mean −0.02001
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

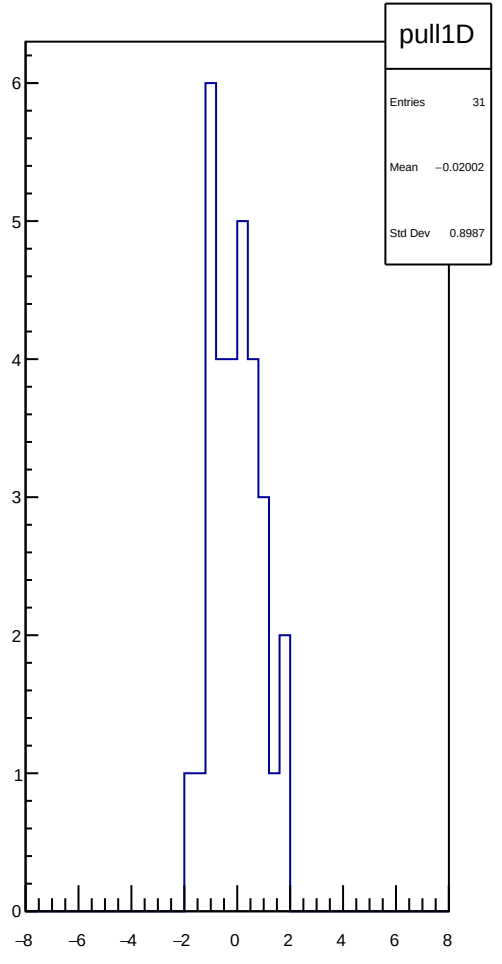

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1205 / 30
p0 612.4 ± 0.7944
660
640
620
600
580
560
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

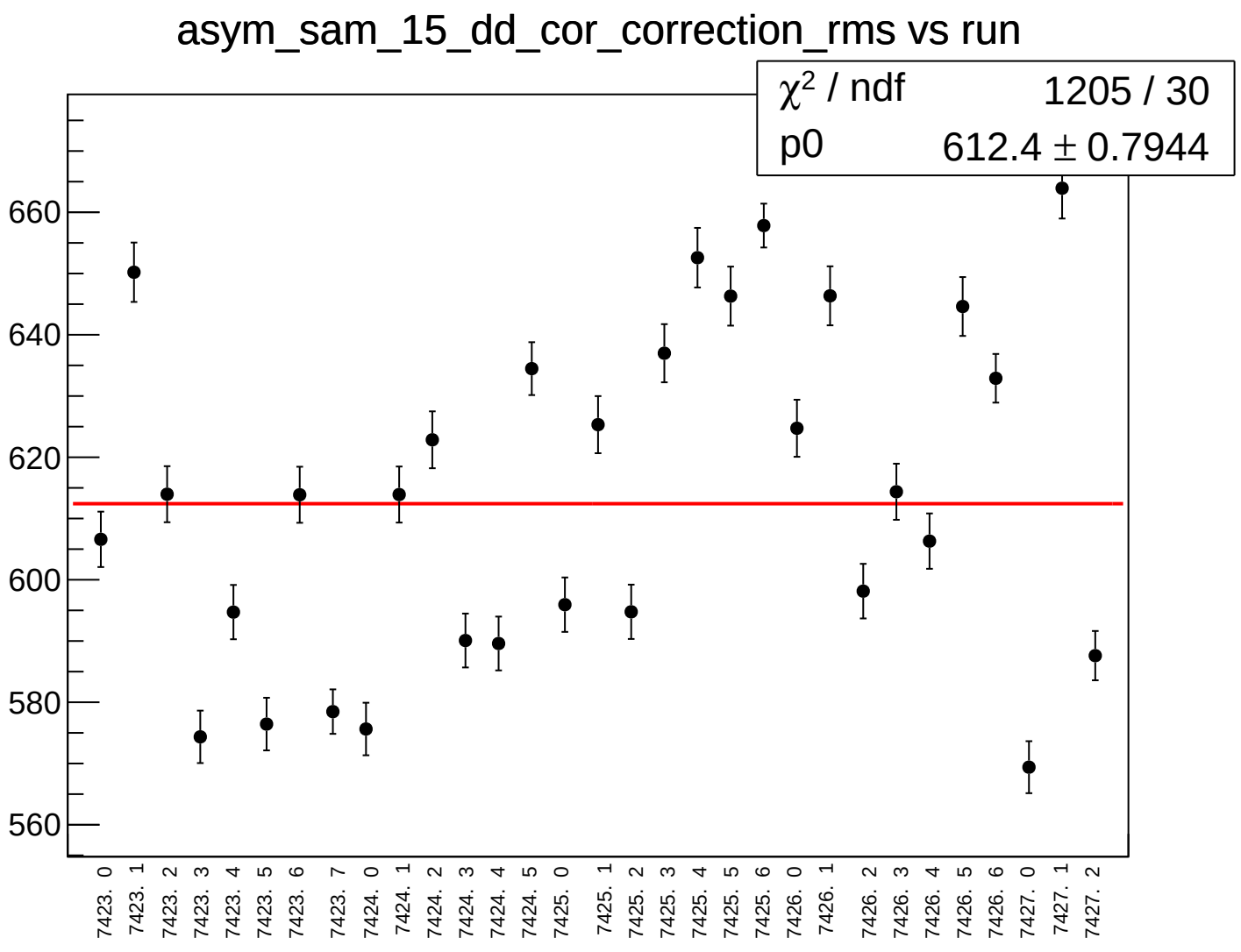

cor_asym_sam_15_dd_mean vs run
χ² / ndf 27.72 / 30
p0 280.7 ± 239.8
6000
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −39.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

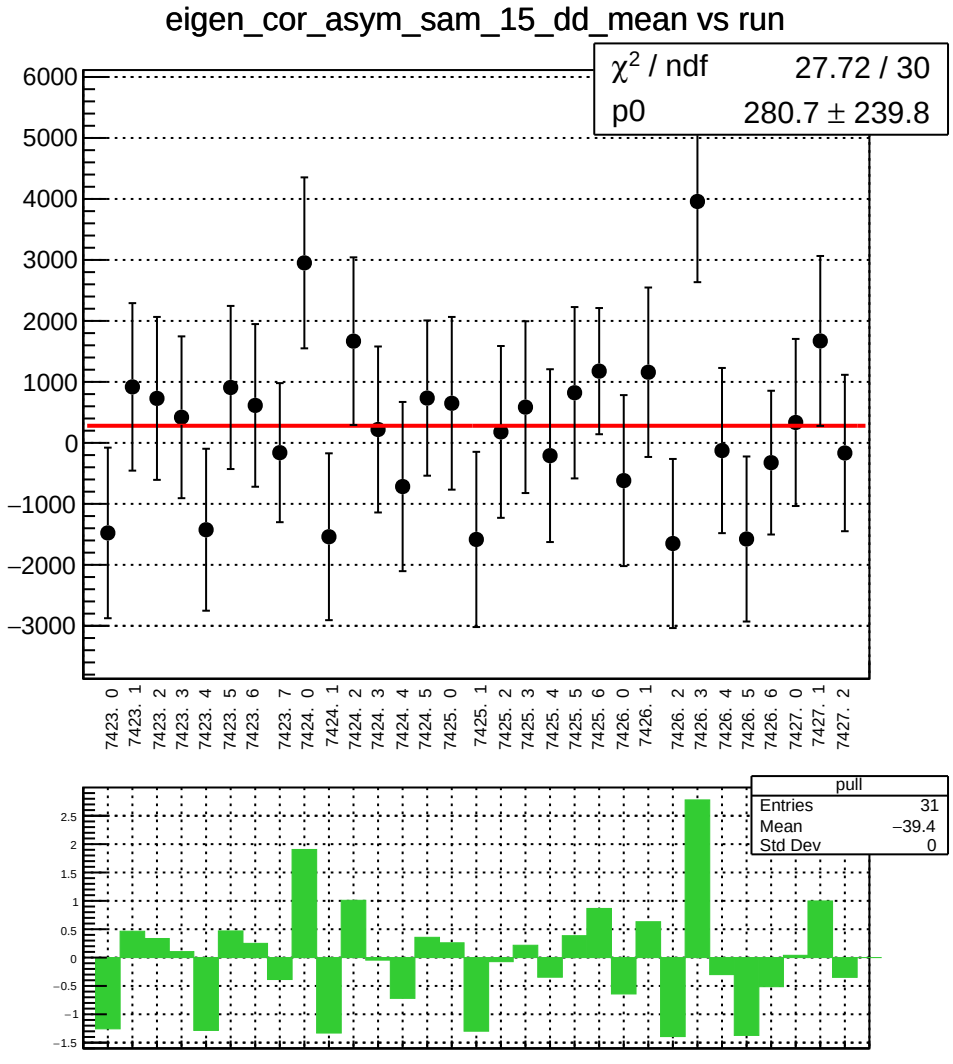

pull1D
Entries 31
Mean −0.007405
Std Dev 0.9455
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

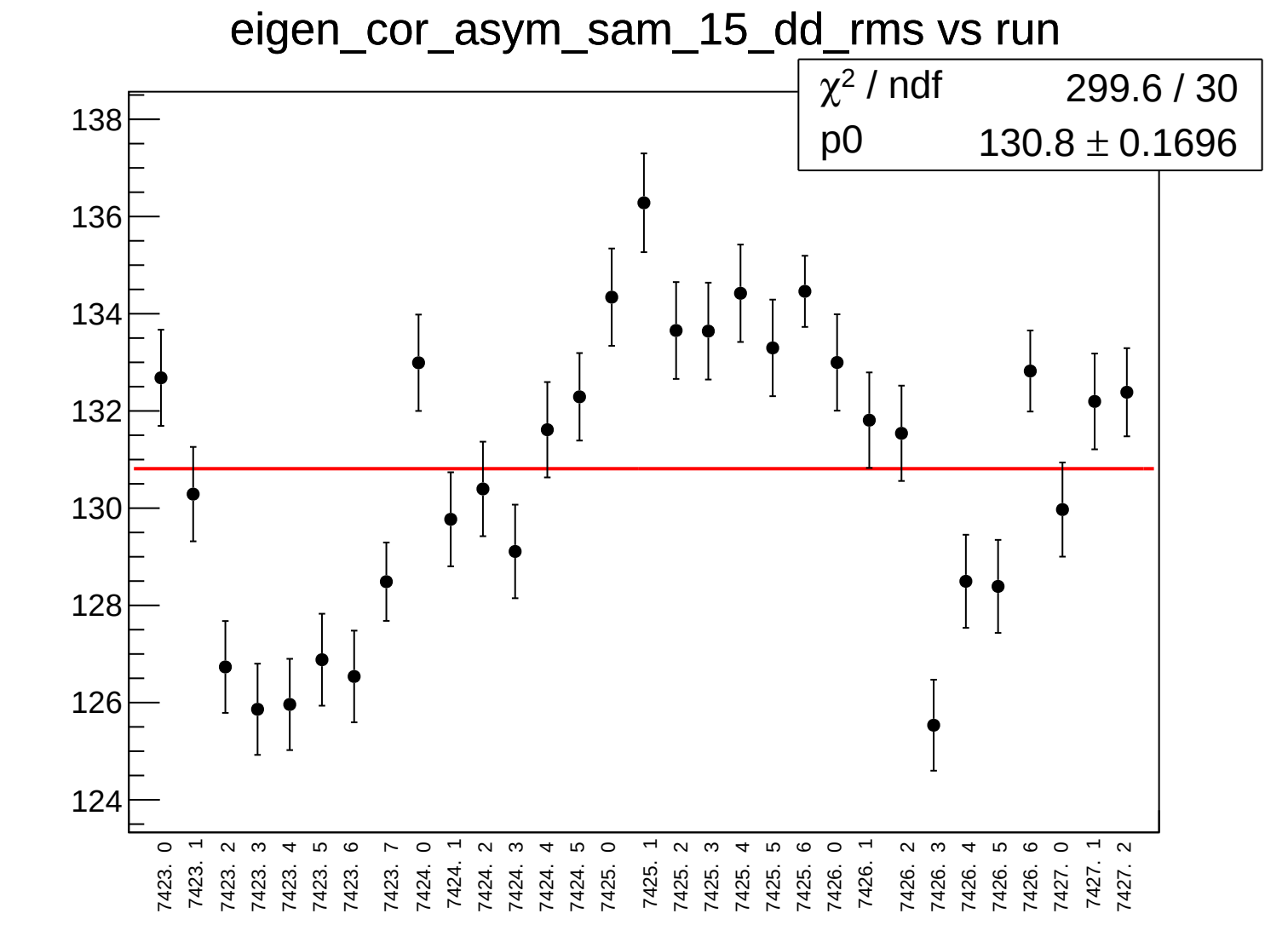

cor_asym_sam_15_dd_rms vs run
χ² / ndf 299.6 / 30
p0 130.8 ± 0.1696
138
136
134
132
130
128
126
124
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

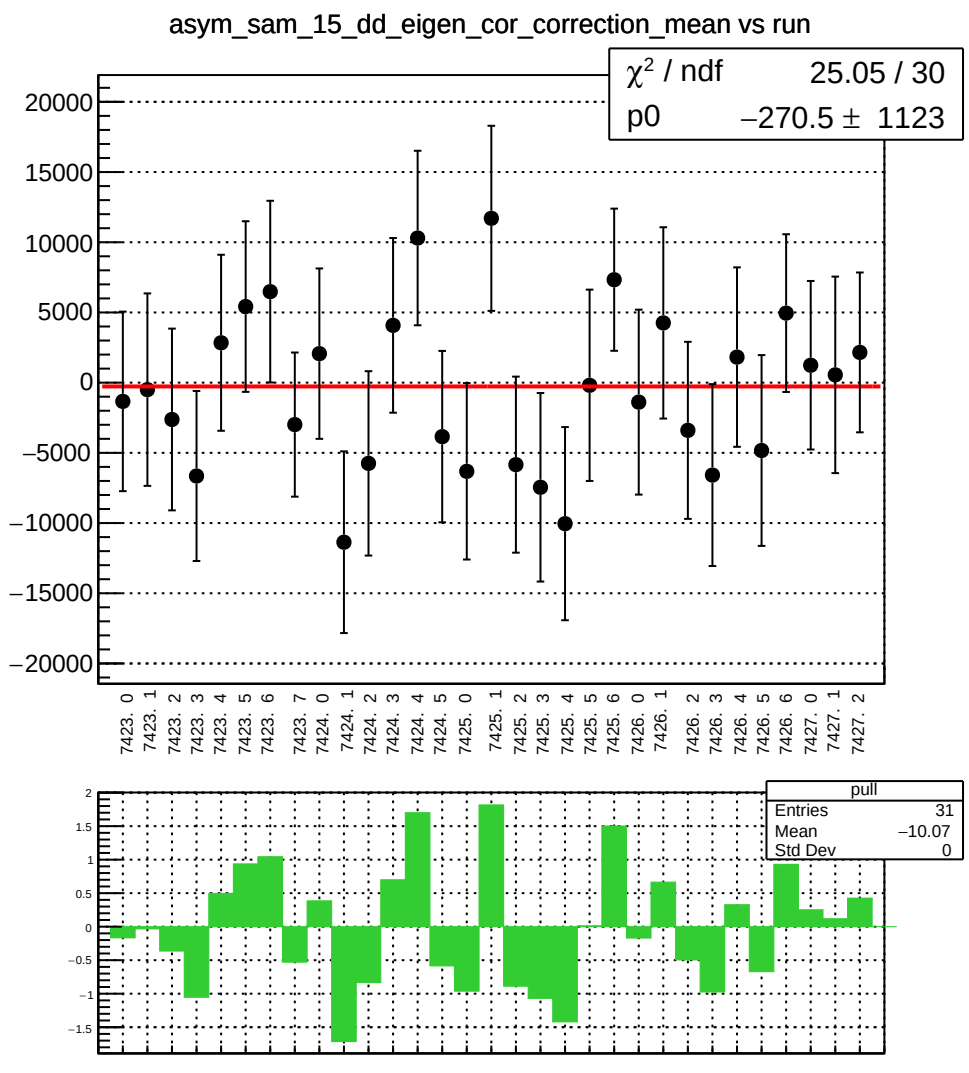

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 25.05 / 30
p0 −270.5 ± 1123
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −10.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

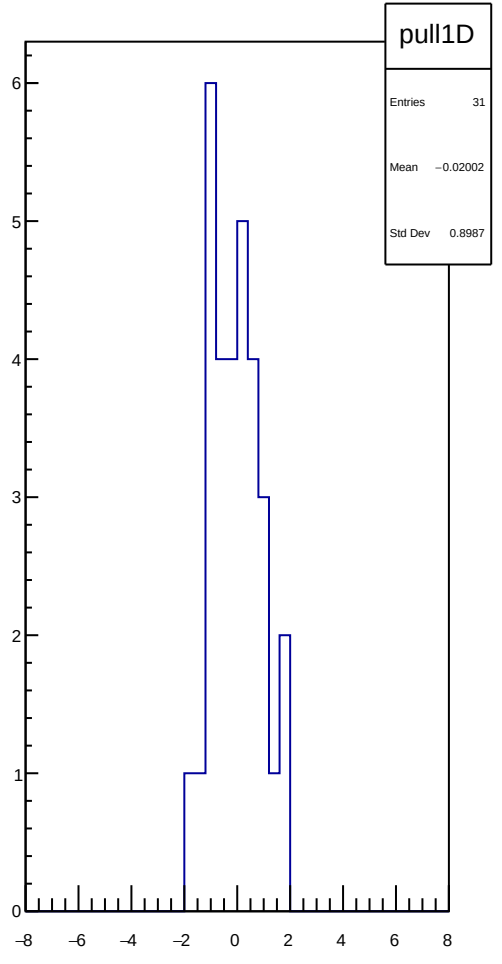

pull1D
Entries 31
Mean −0.02002
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

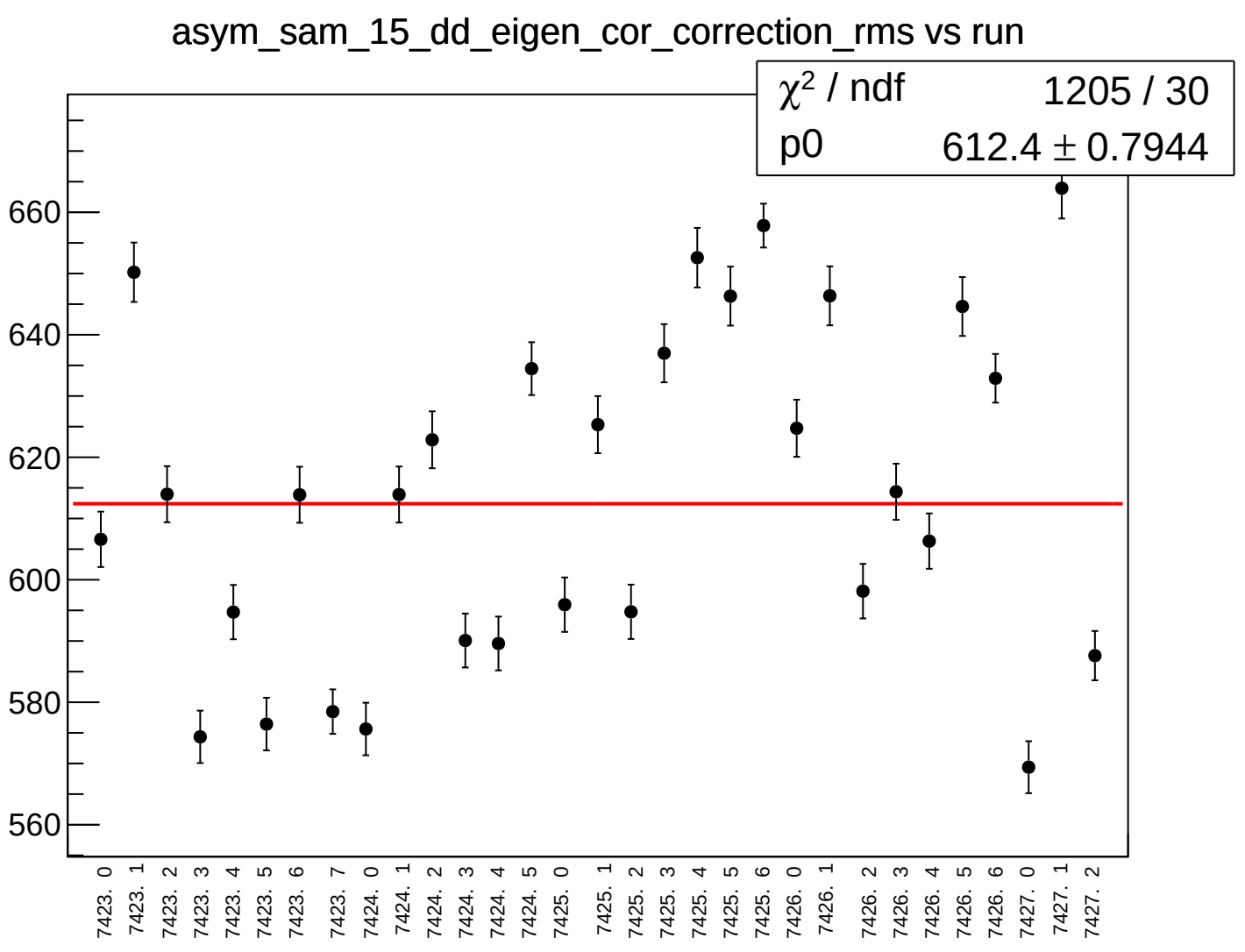

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1205 / 30
p0 612.4 ± 0.7944
660
640
620
600
580
560
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

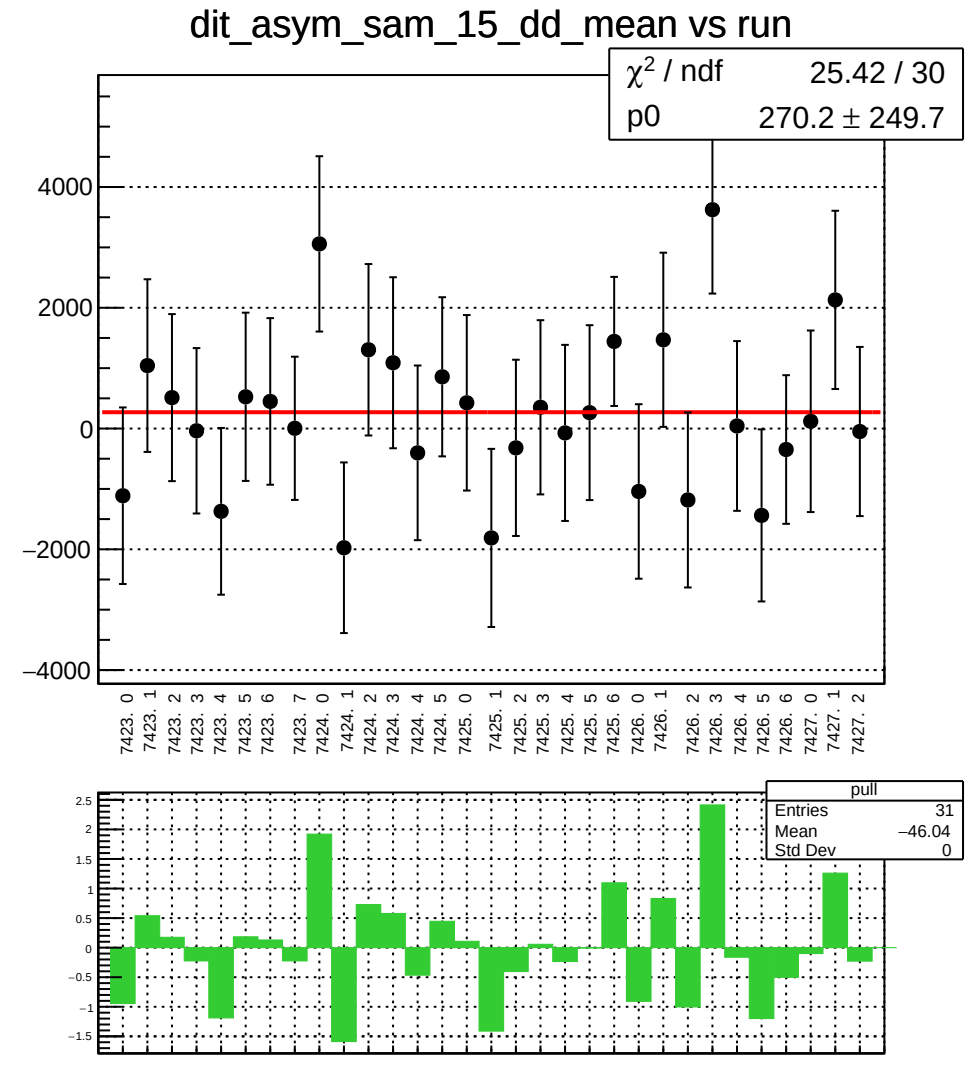

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 27.72 / 30
p0 280.7 ± 239.8
6000
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −39.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.007405
Std Dev 0.9455
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

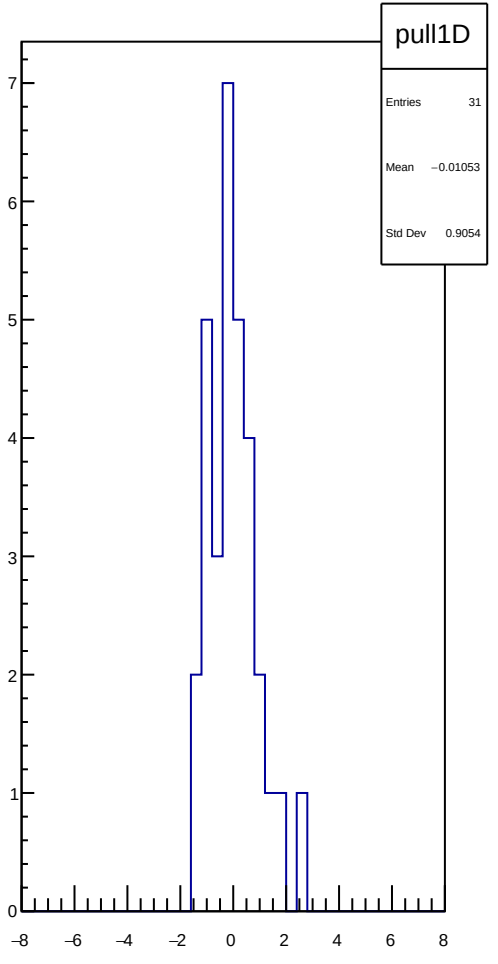

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 299.6 / 30
p0 130.8 ± 0.1696
138
136
134
132
130
128
126
124
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

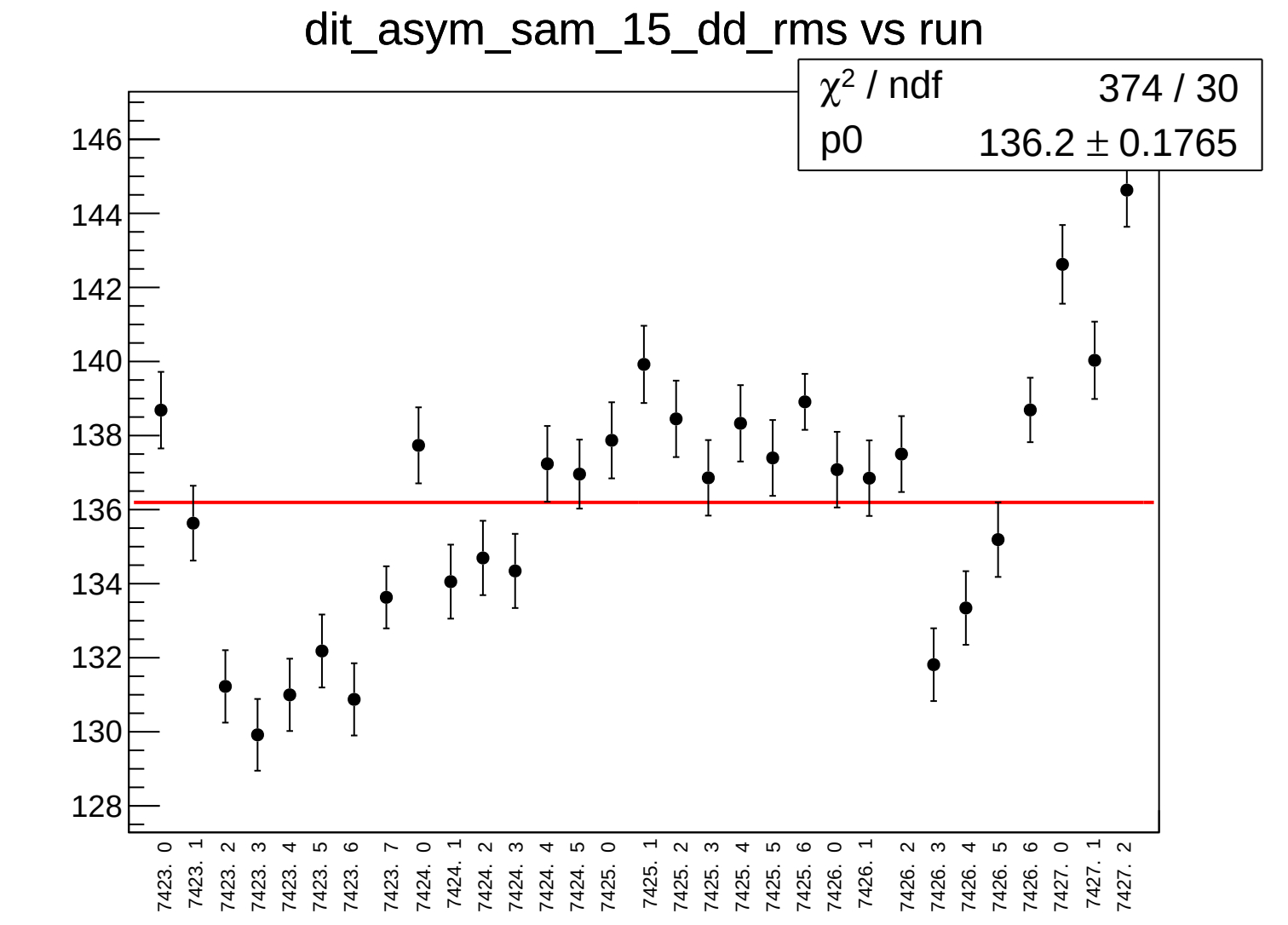

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 25.05 / 30
p0 −270.5 ± 1123
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −10.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

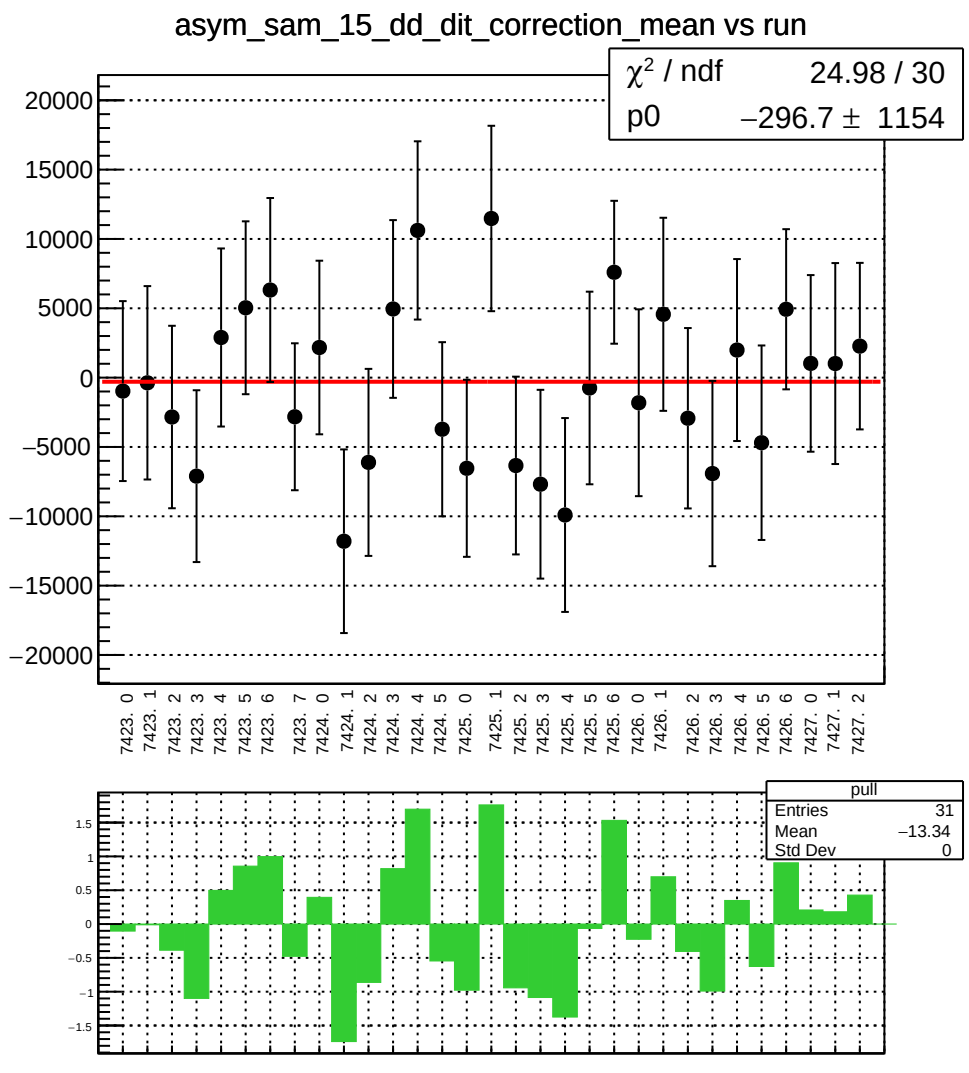

pull1D
Entries 31
Mean −0.02002
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

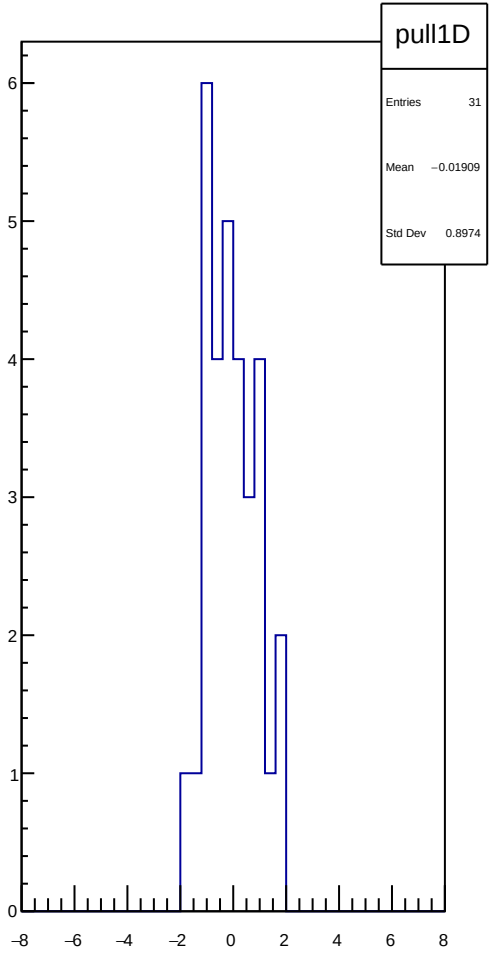

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1205 / 30
p0 612.4 ± 0.7944
660
640
620
600
580
560
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

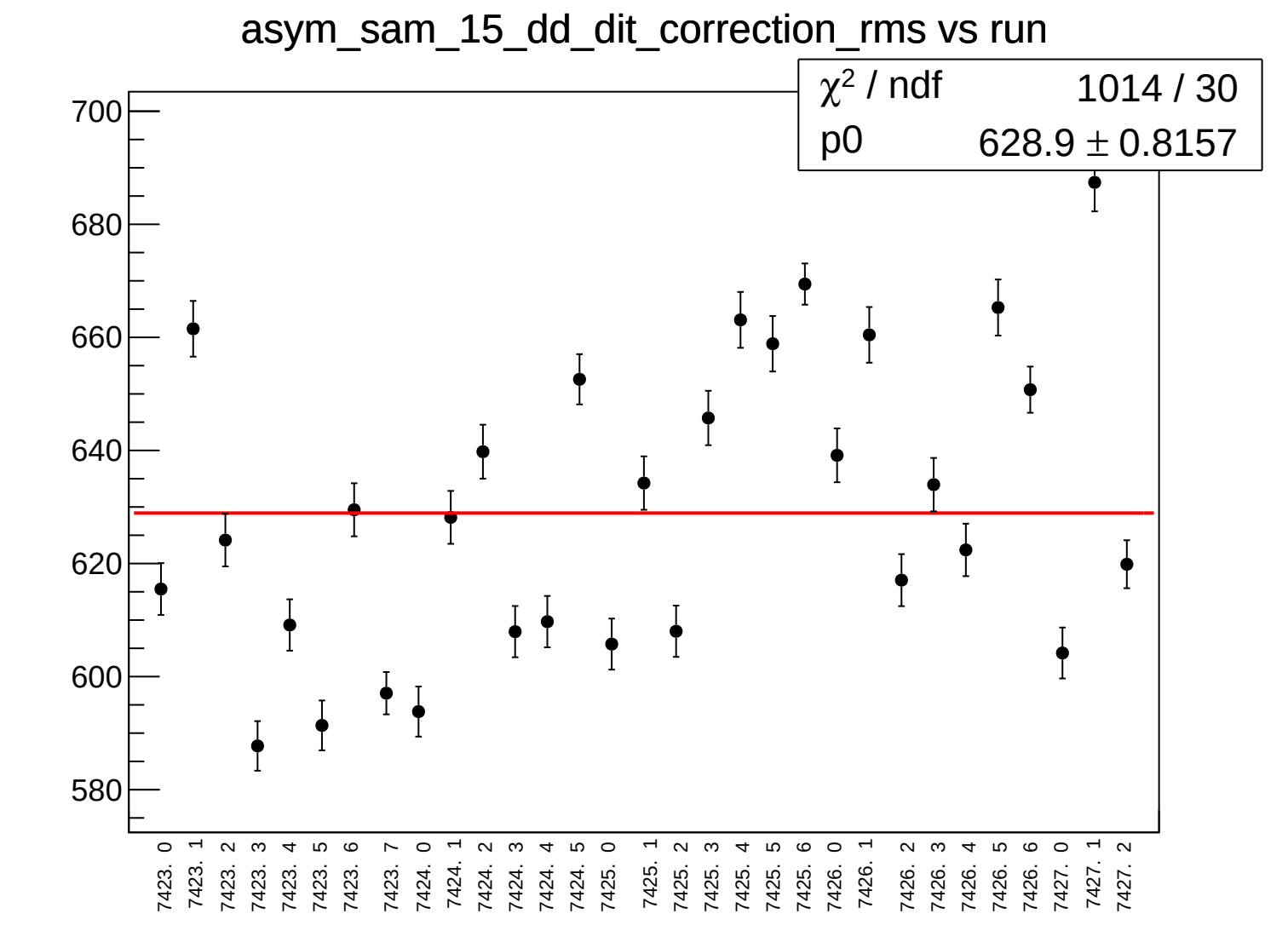

dit_asym_sam_15_dd_mean vs run
χ² / ndf 25.42 / 30
p0 270.2 ± 249.7
4000
2000
0
−2000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −46.04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

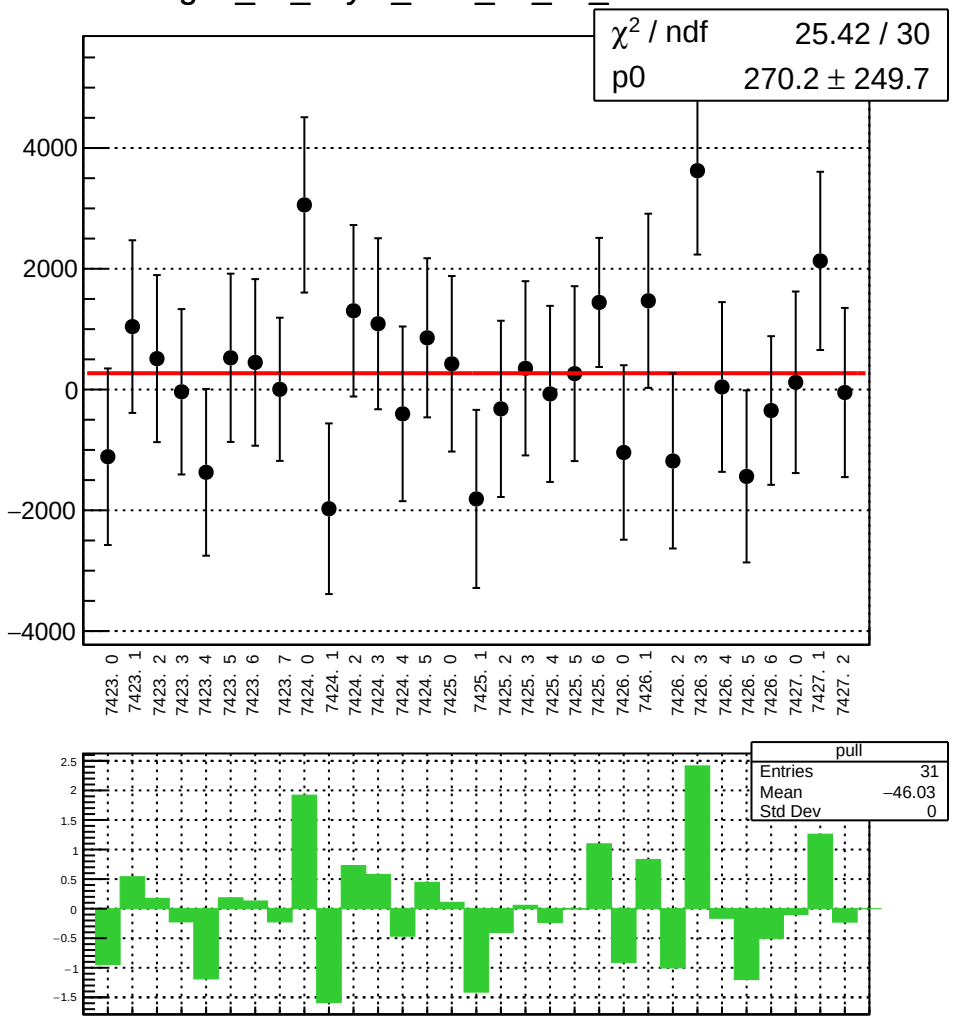

pull1D
Entries 31
Mean −0.01053
Std Dev 0.9054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

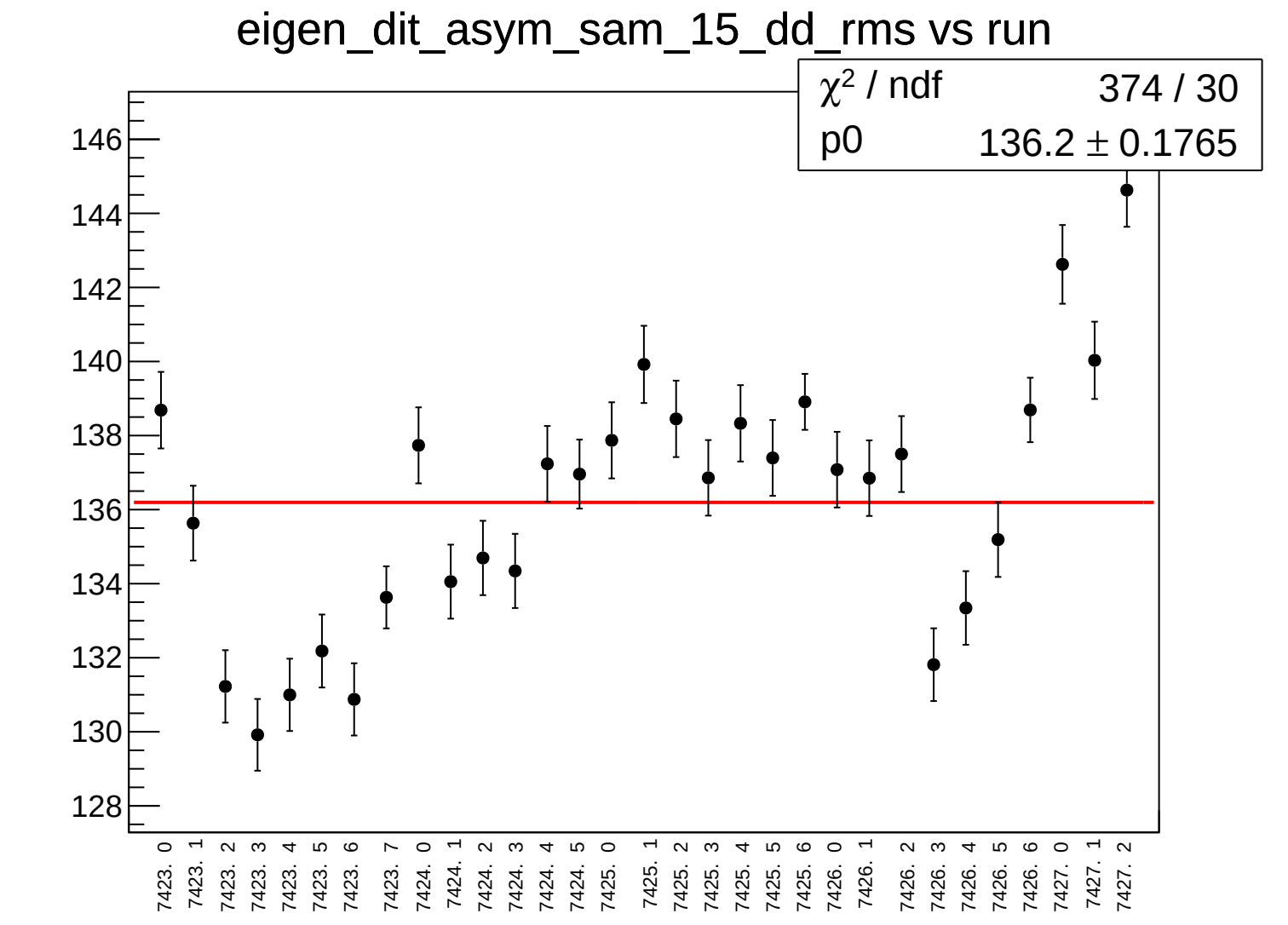

dit_asym_sam_15_dd_rms vs run
χ² / ndf 374 / 30
p0 136.2 ± 0.1765
146
144
142
140
138
136
134
132
130
128
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

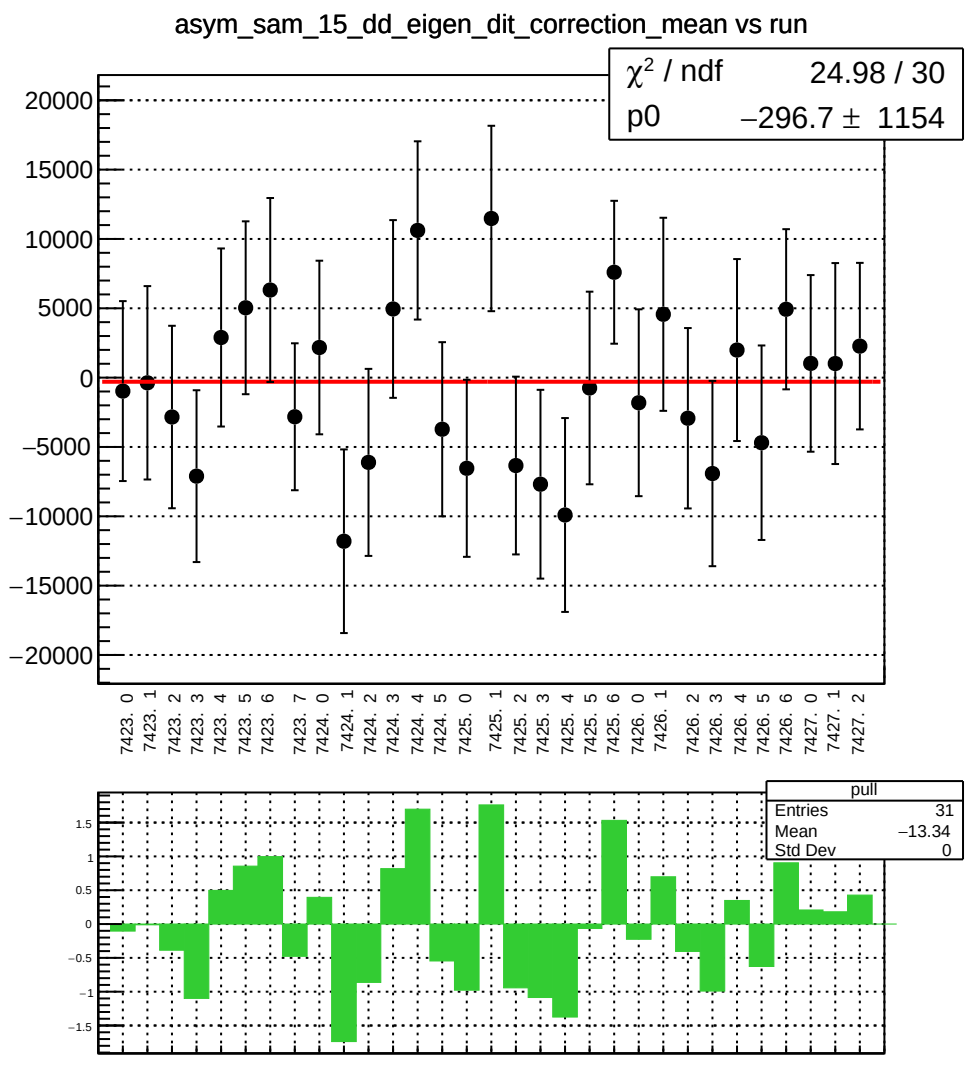

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 24.98 / 30
p0 −296.7 ± 1154
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −13.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

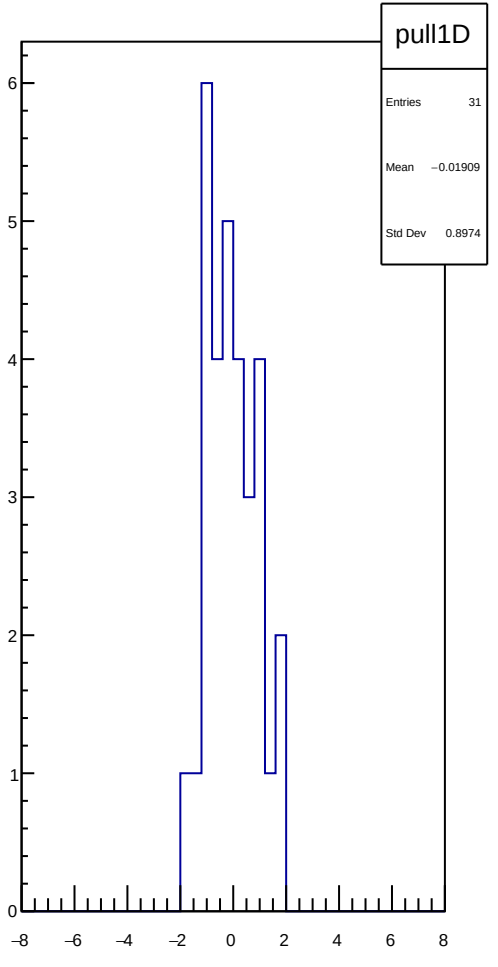

pull1D
Entries 31
Mean −0.01909
Std Dev 0.8974
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

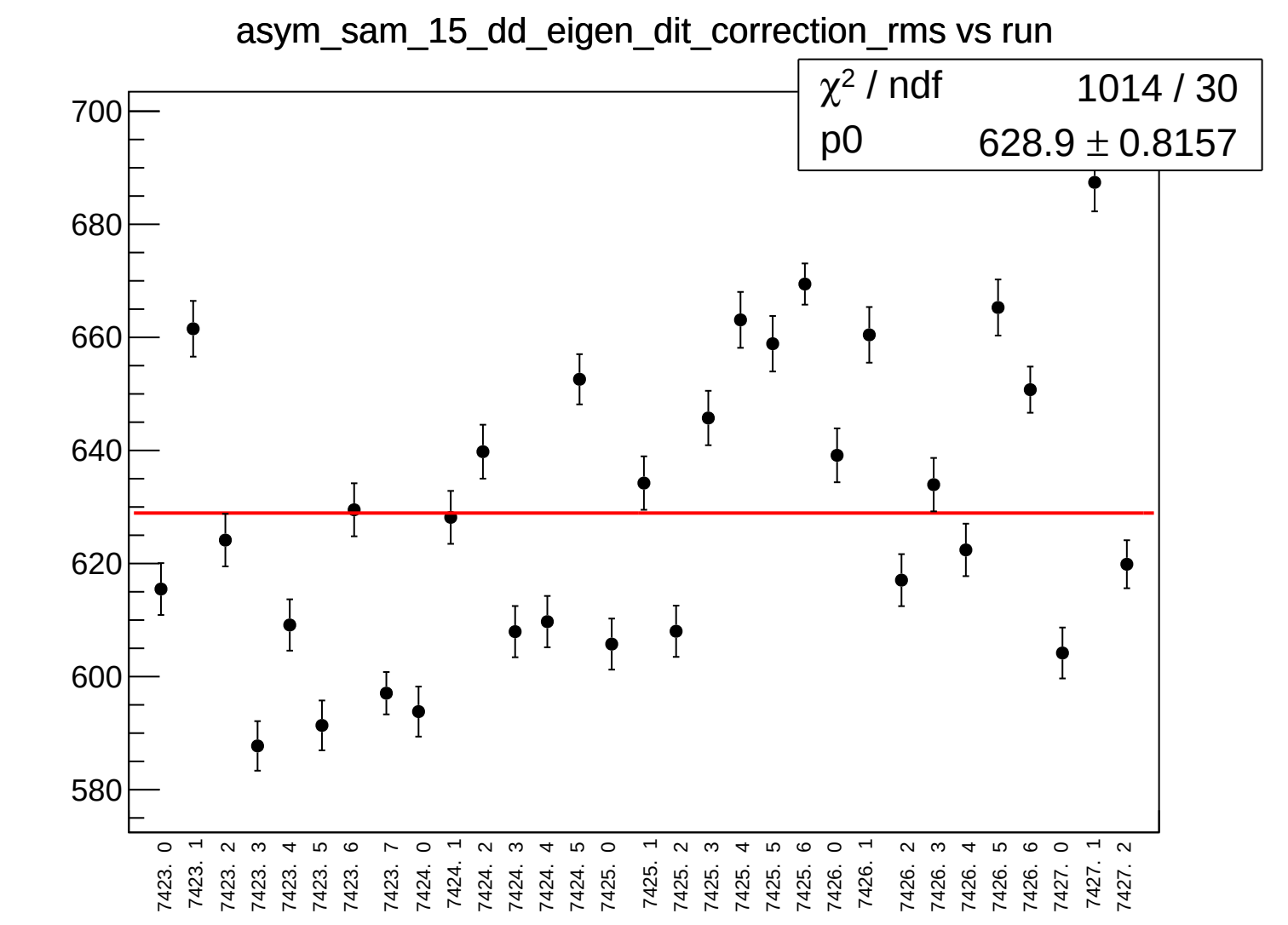

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1014 / 30
p0 628.9 ± 0.8157
700
680
660
640
620
600
580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

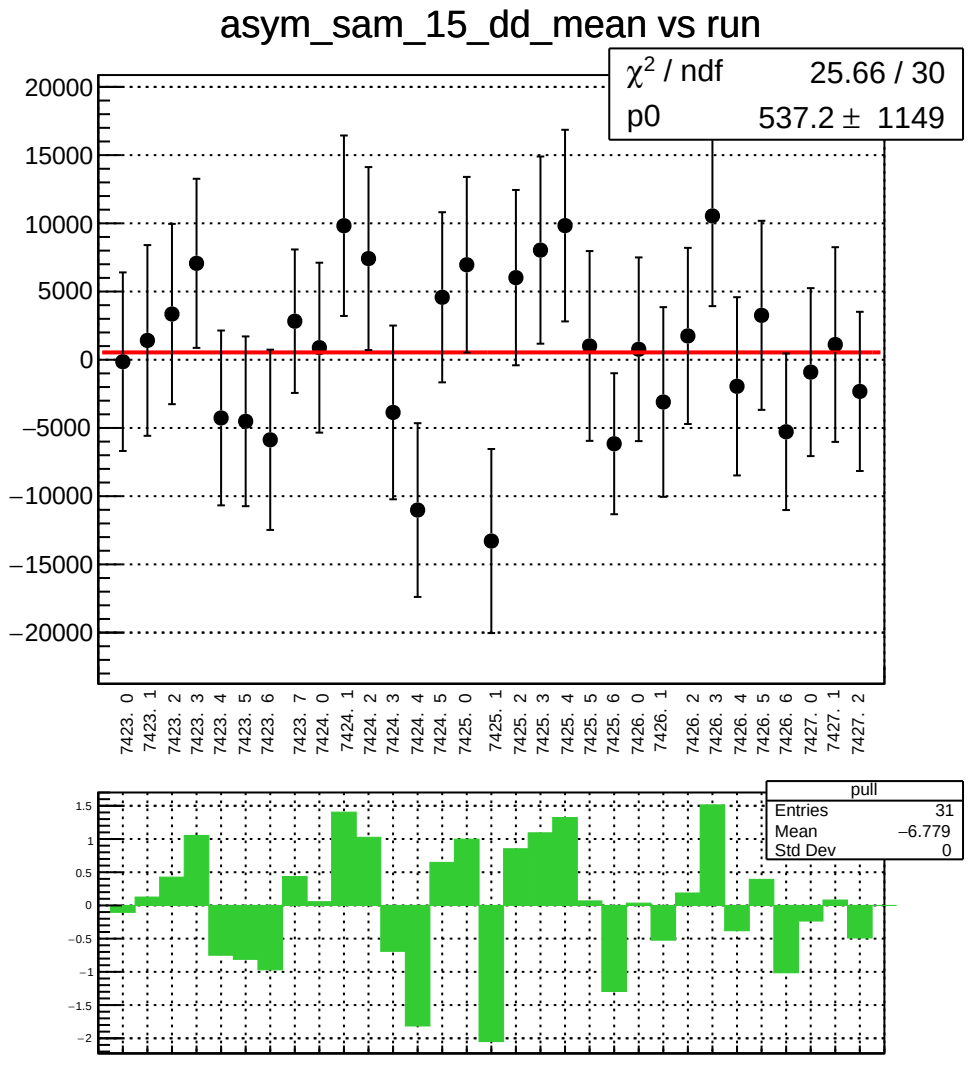

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 25.42 / 30
p0 270.2 ± 249.7
4000
2000
0
−2000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −46.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01053
Std Dev 0.9054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

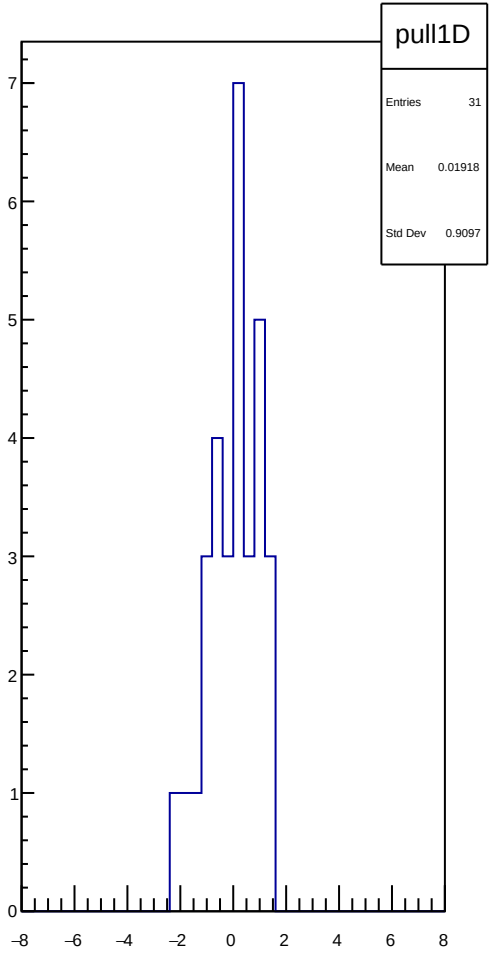

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 374 / 30
p0 136.2 ± 0.1765
146
144
142
140
138
136
134
132
130
128
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

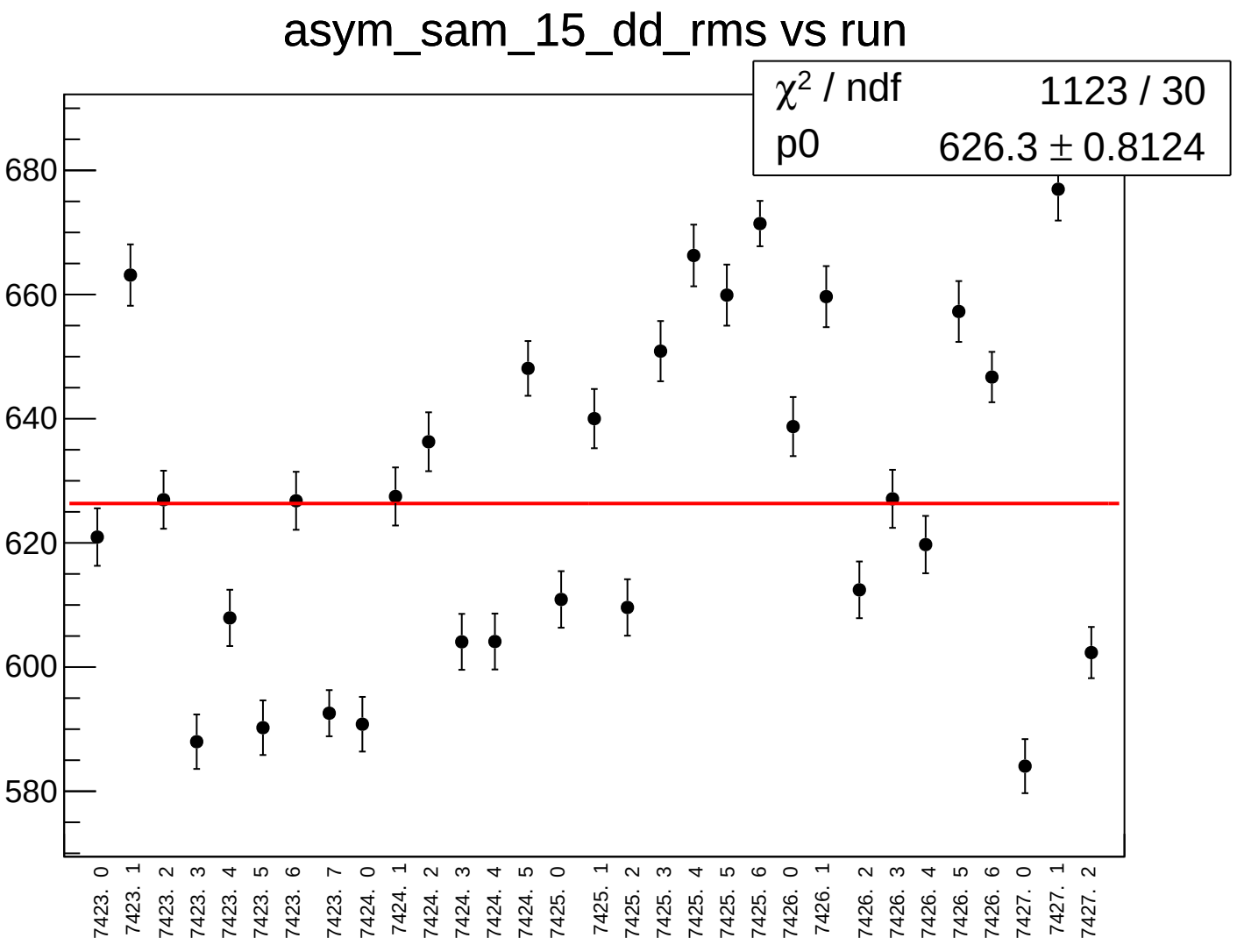

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 24.98 / 30
p0 −296.7 ± 1154
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −13.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

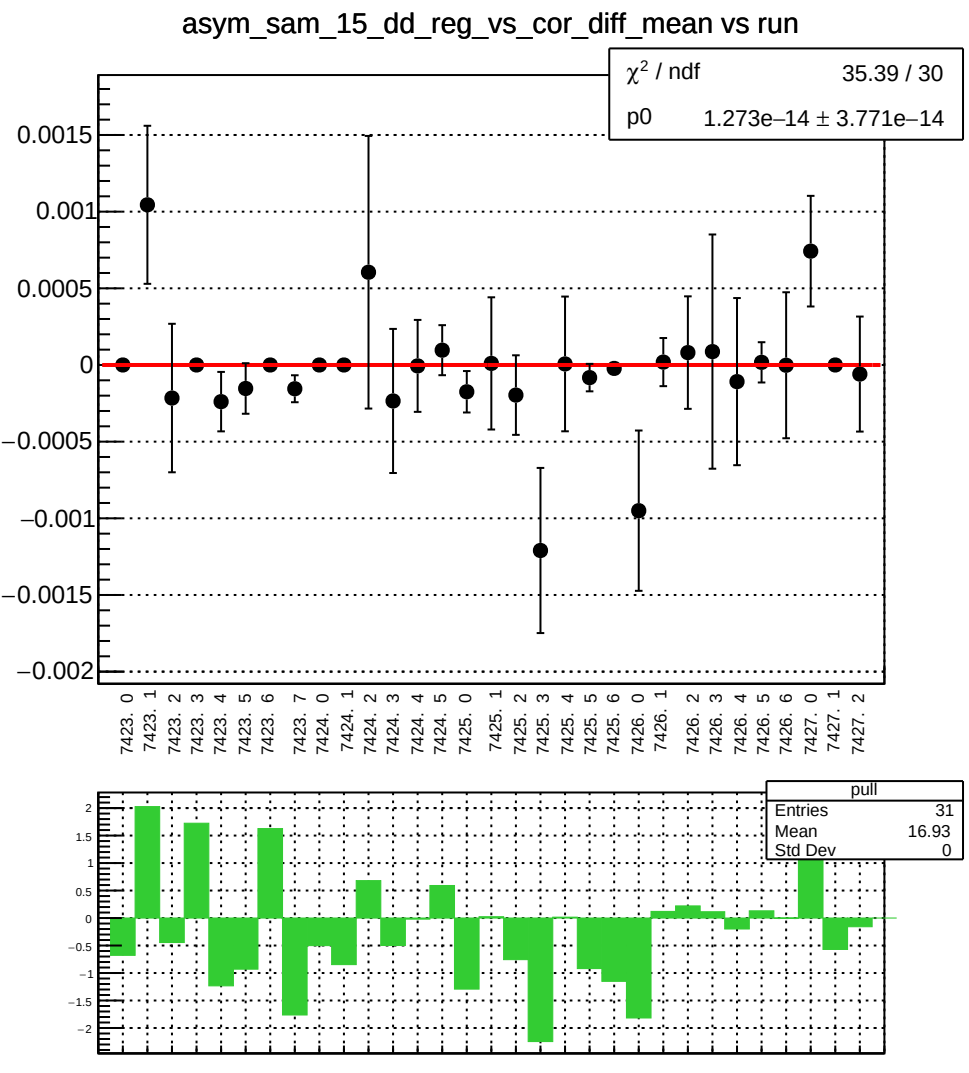

pull1D
Entries 31
Mean −0.01909
Std Dev 0.8974
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

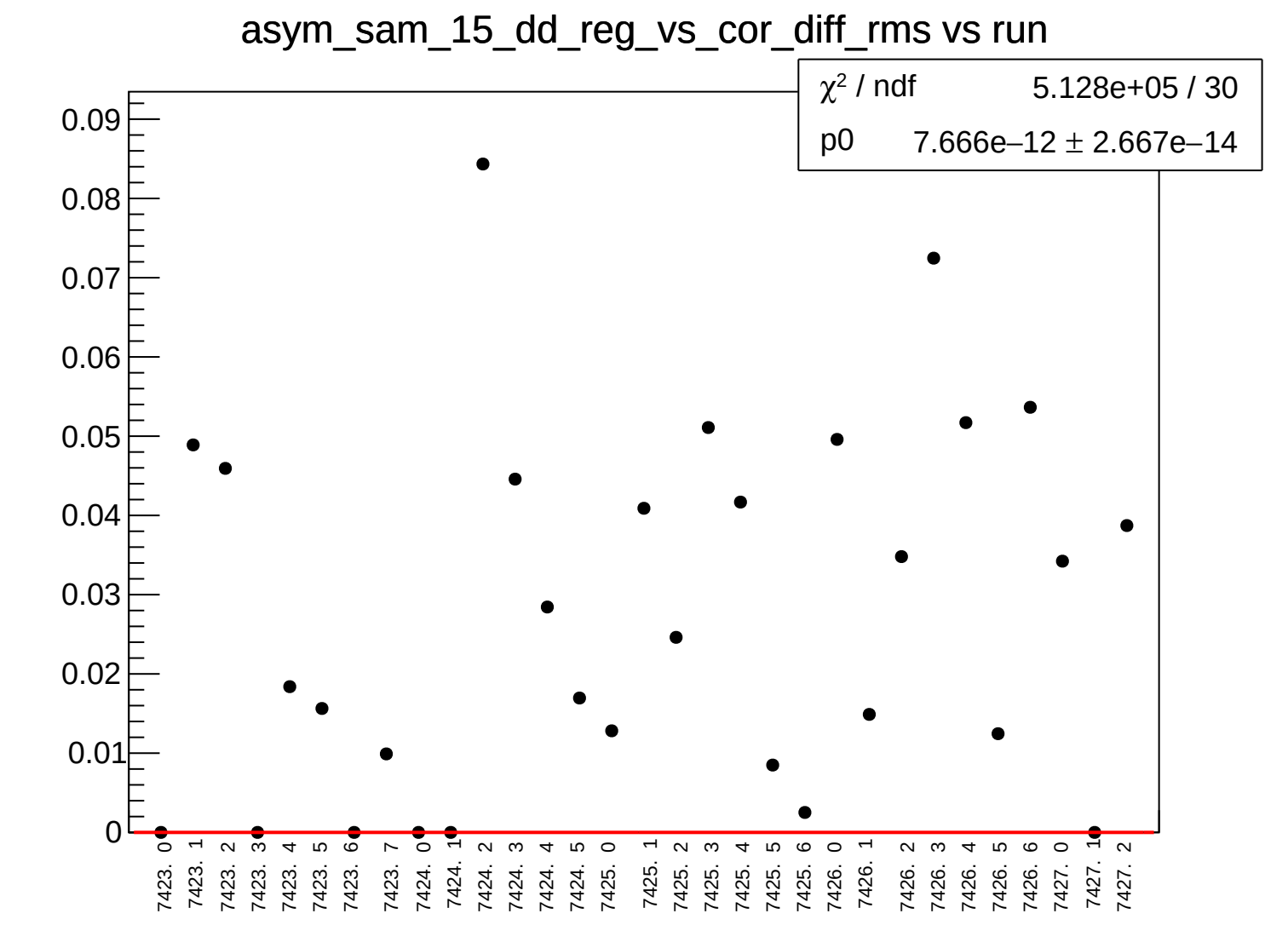

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1014 / 30
p0 628.9 ± 0.8157
700
680
660
640
620
600
580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

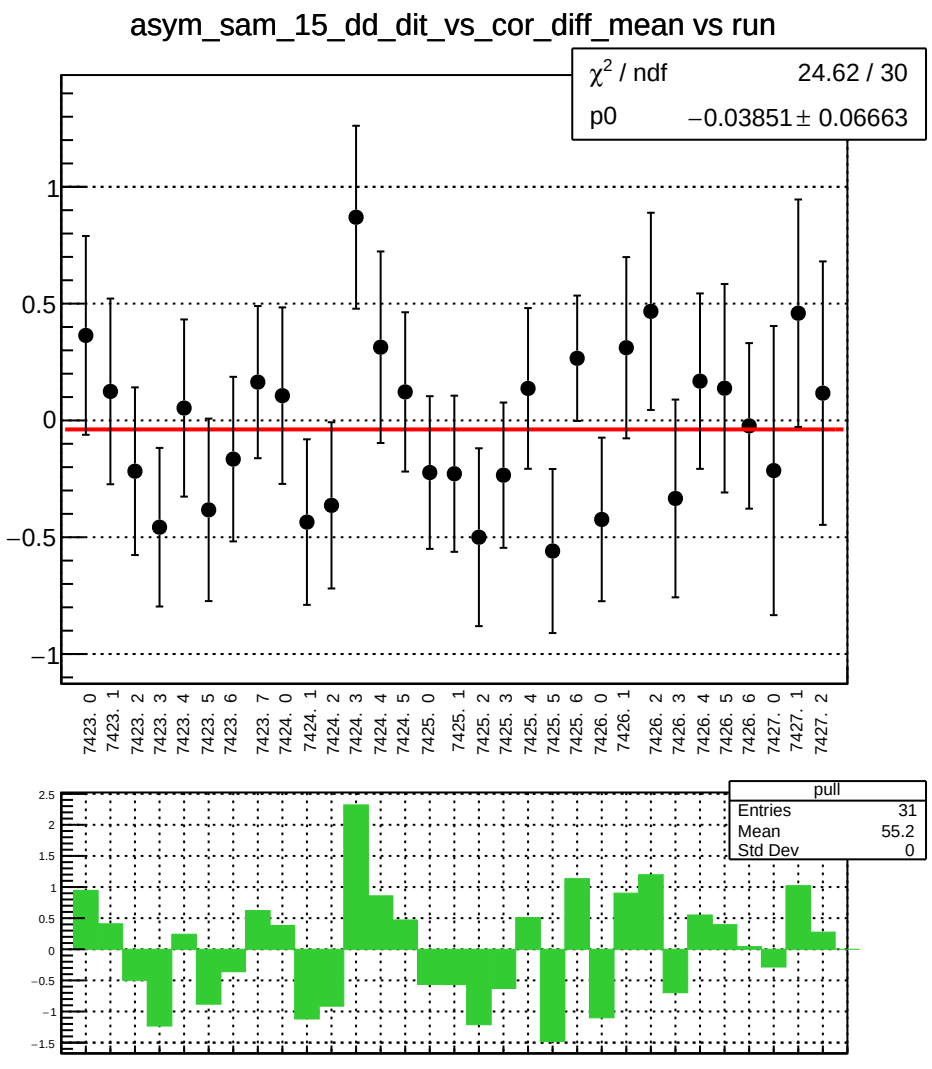

asym_sam_15_dd_mean vs run
χ² / ndf 25.66 / 30
p0 537.2 ± 1149
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −6.779
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

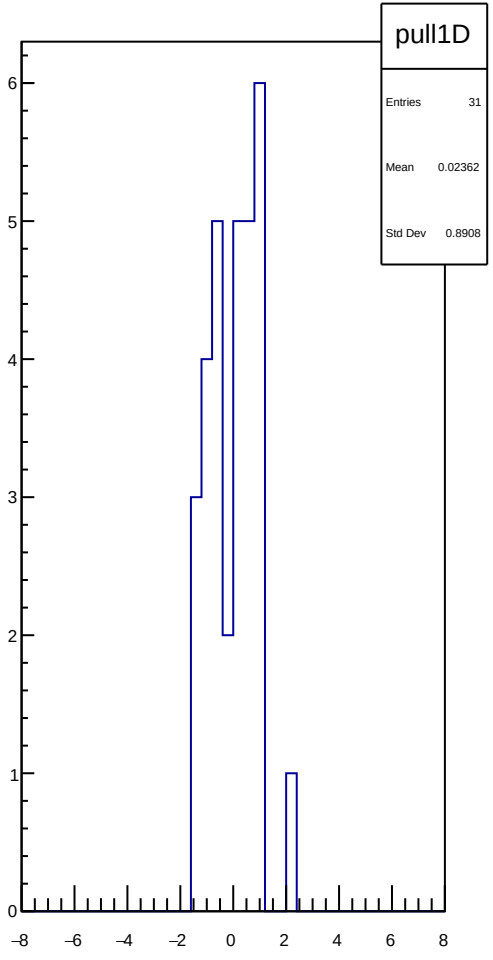

pull1D
Entries 31
Mean 0.01918
Std Dev 0.9097
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

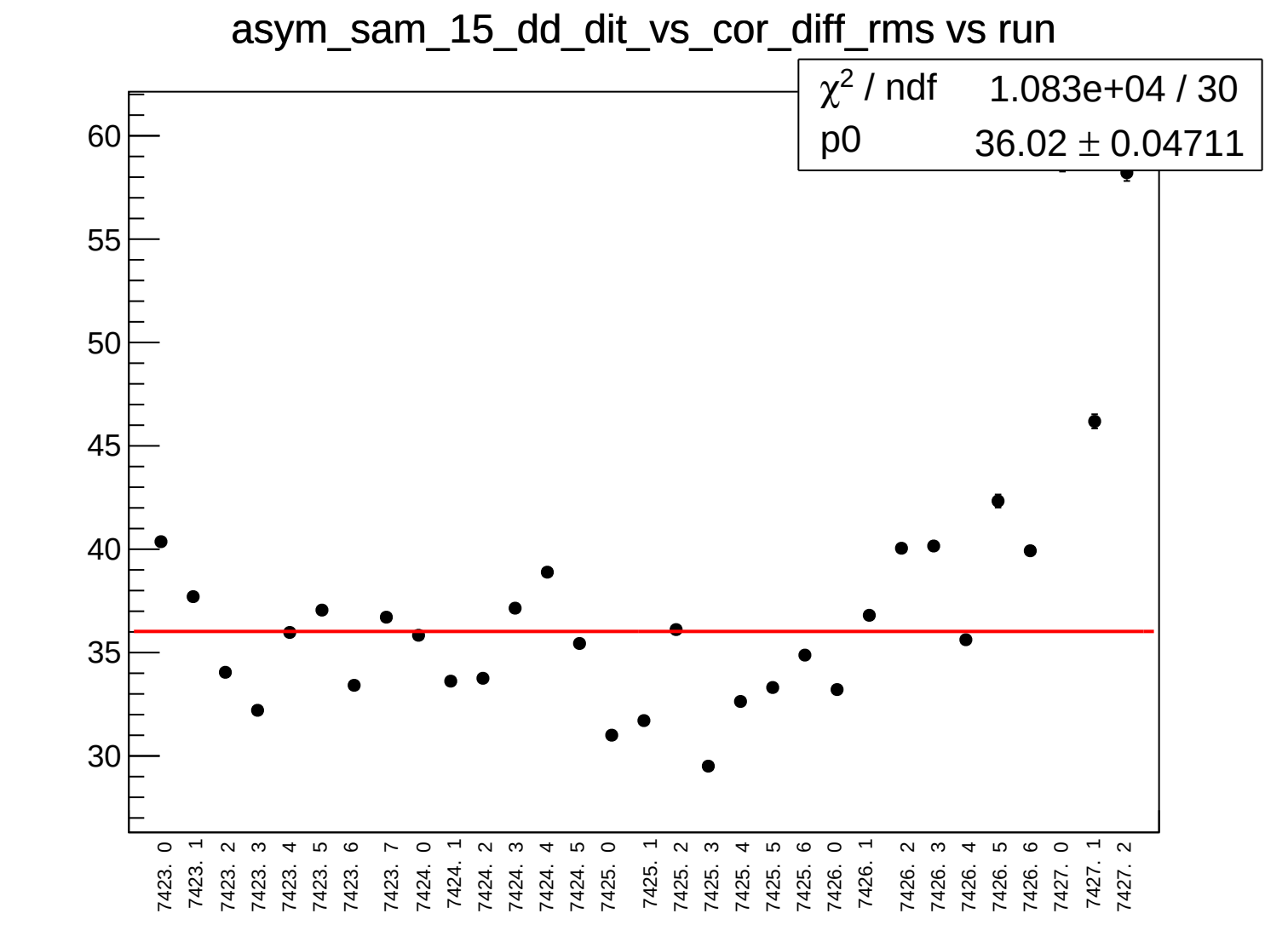

asym_sam_15_dd_rms vs run
χ² / ndf 1123 / 30
p0 626.3 ± 0.8124
680
660
640
620
600
580
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

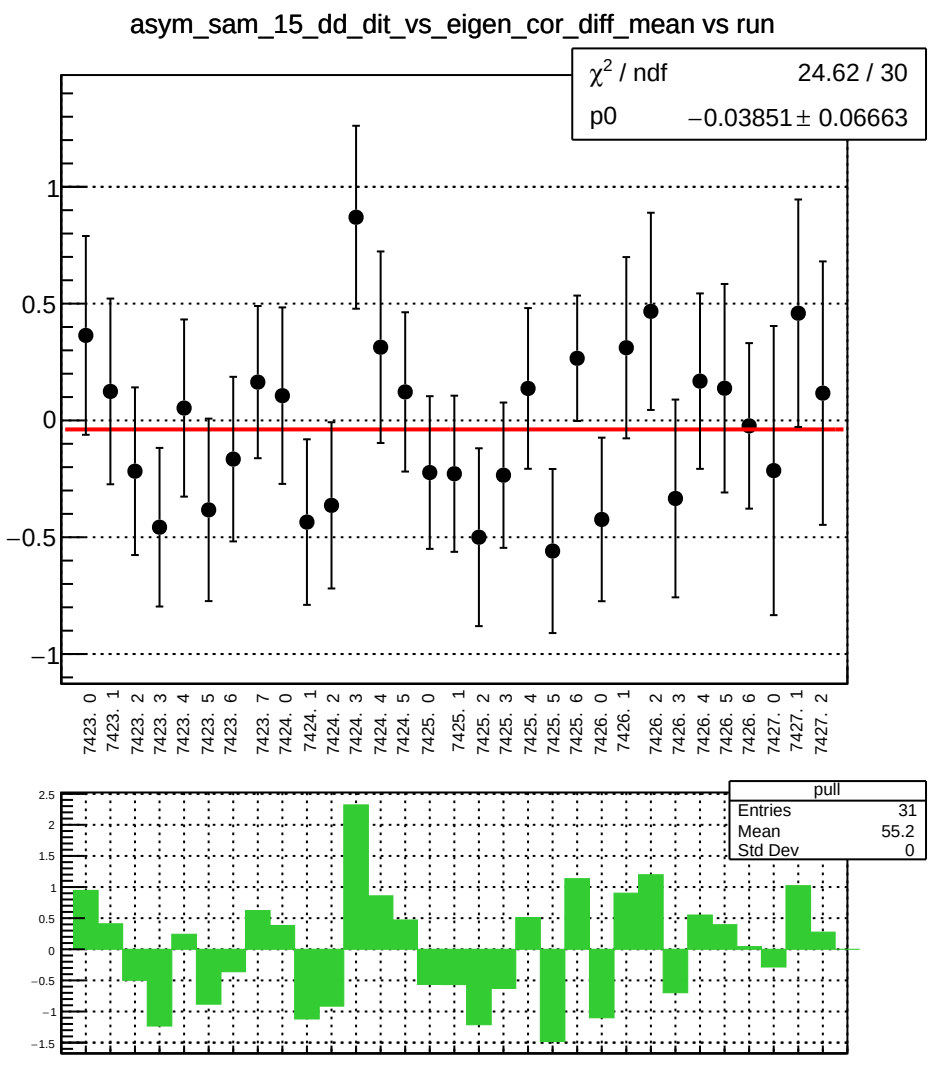

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.39 / 30
p0 1.273e−14 ± 3.771e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 16.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.2161
Std Dev 1.046
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

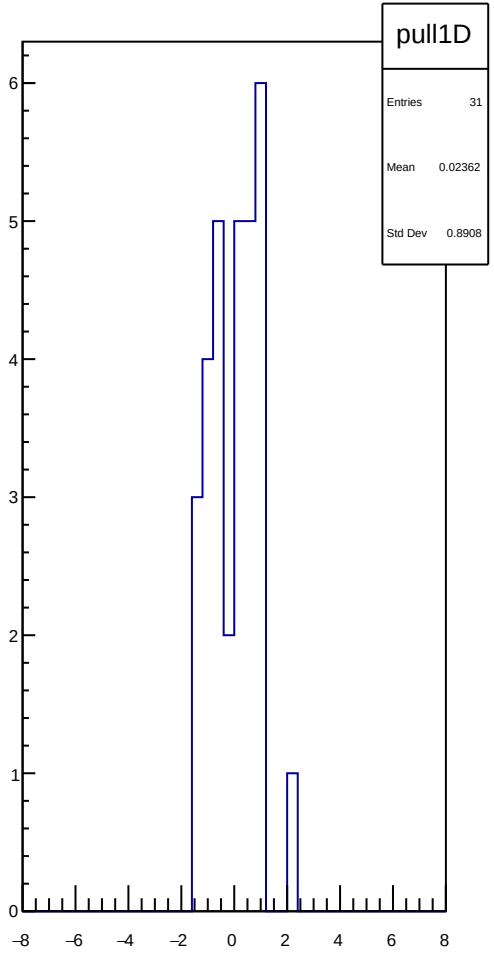

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.128e+05 / 30
p0 7.666e−12 ± 2.667e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

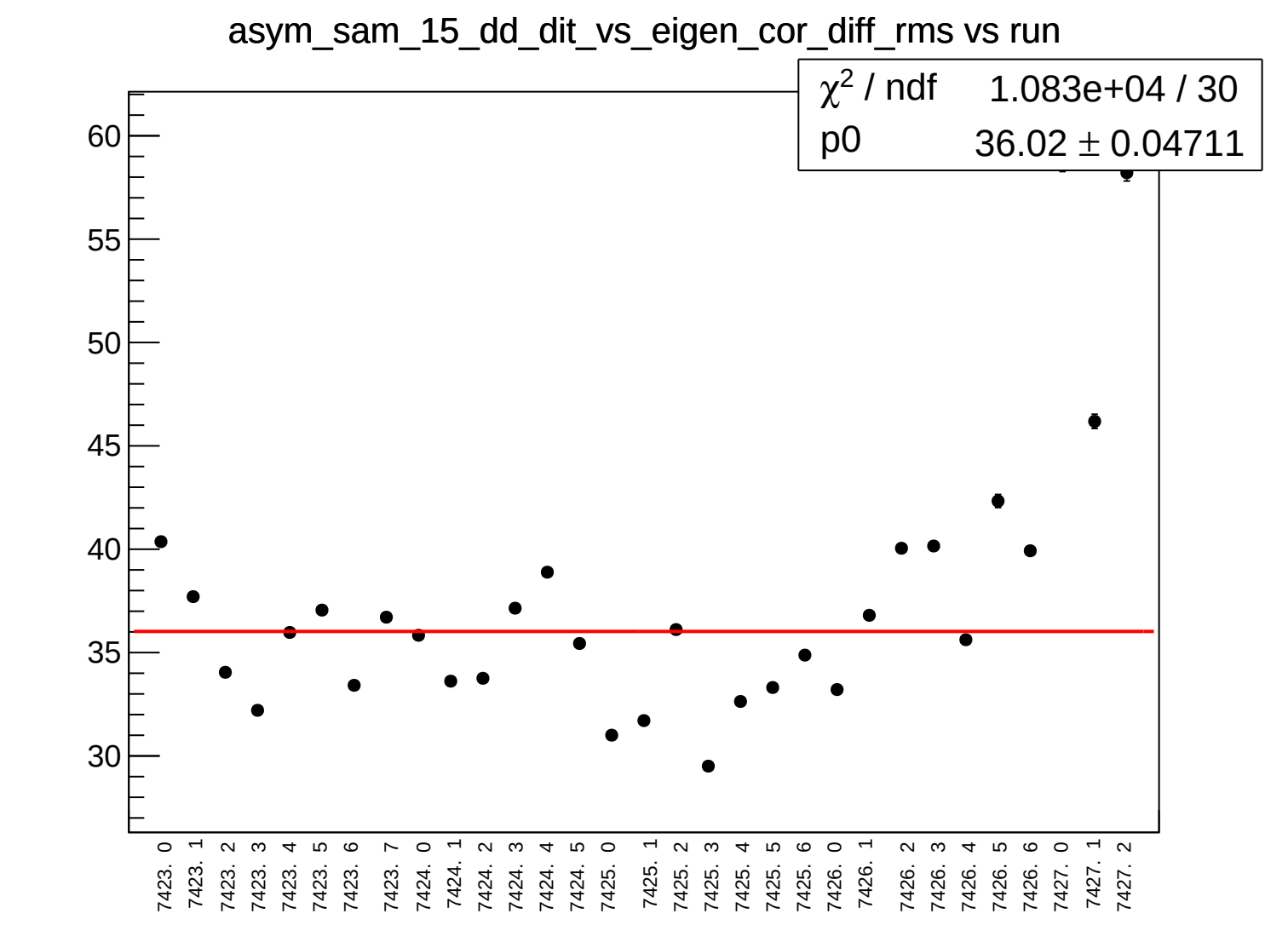

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 24.62 / 30
p0 −0.03851 ± 0.06663
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 55.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

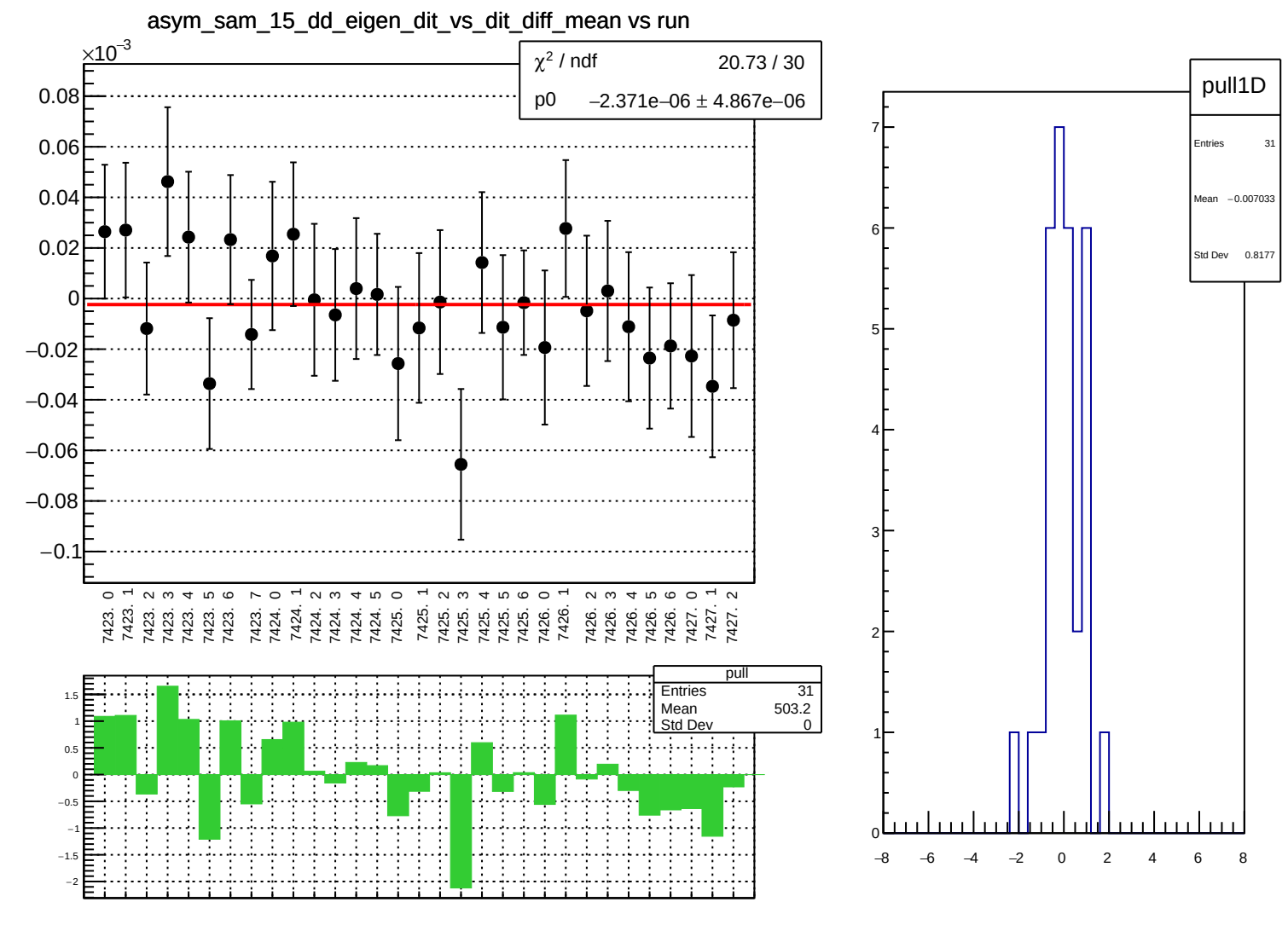

pull1D
Entries 31
Mean 0.02362
Std Dev 0.8908
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

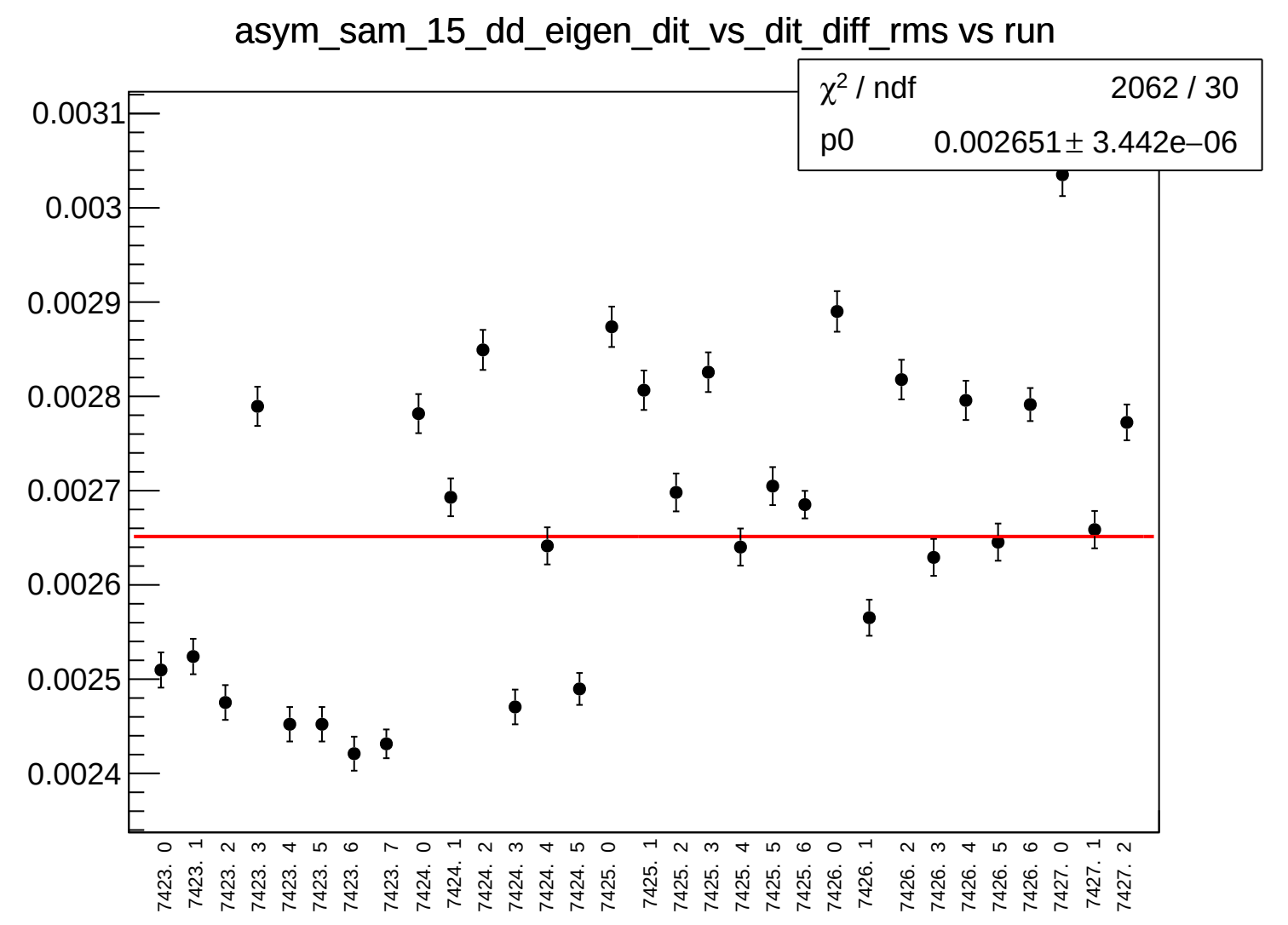

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.083e+04 / 30
p0 36.02 ± 0.04711
60
55
50
45
40
35
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

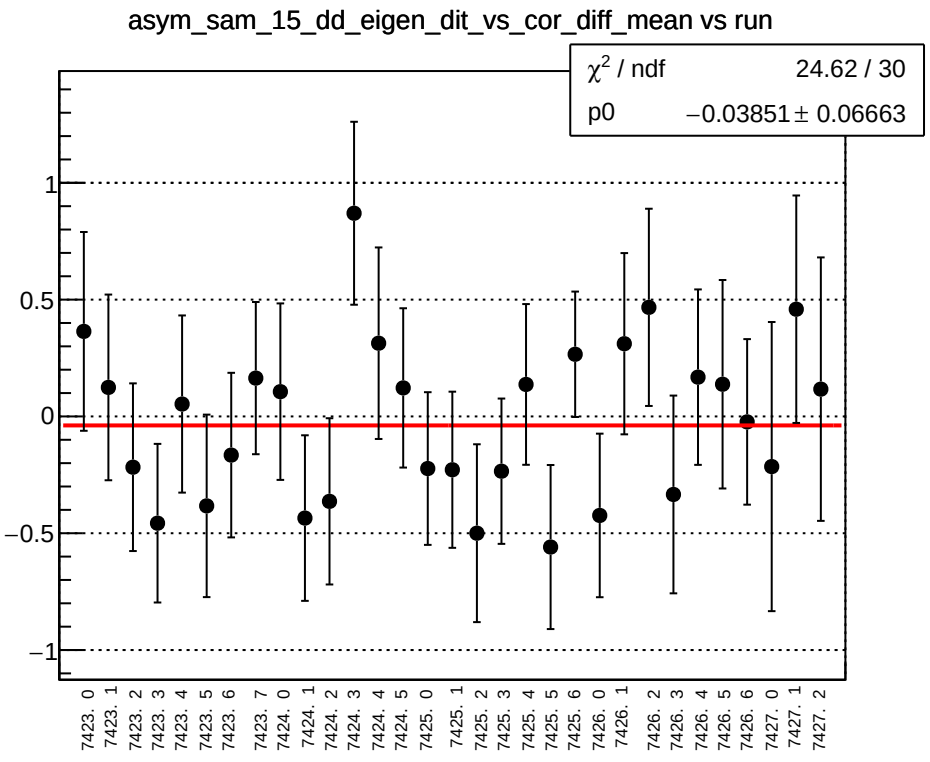

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.62 / 30
p0 −0.03851 ± 0.06663
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 55.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

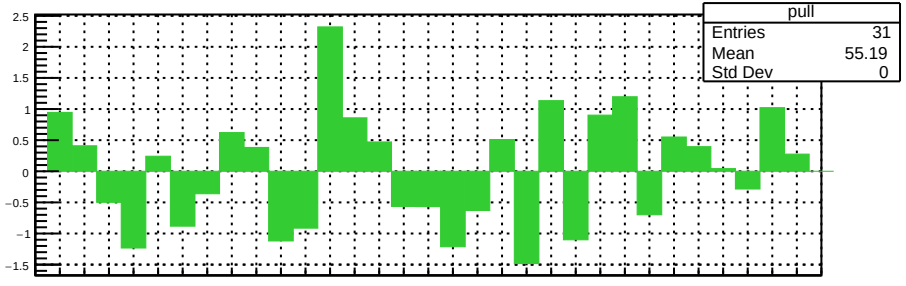

pull1D
Entries 31
Mean 0.02362
Std Dev 0.8908
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

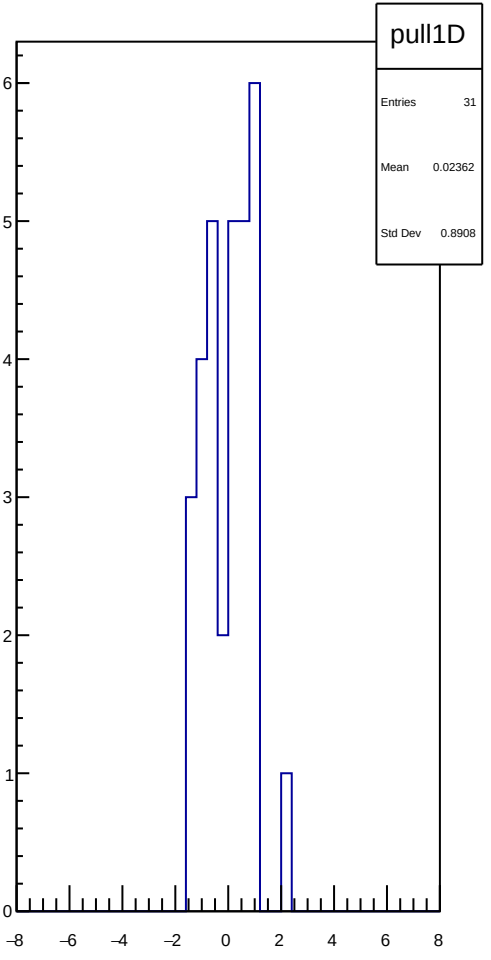

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 1.083e+04 / 30
p0 36.02 ± 0.04711
60
55
50
45
40
35
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

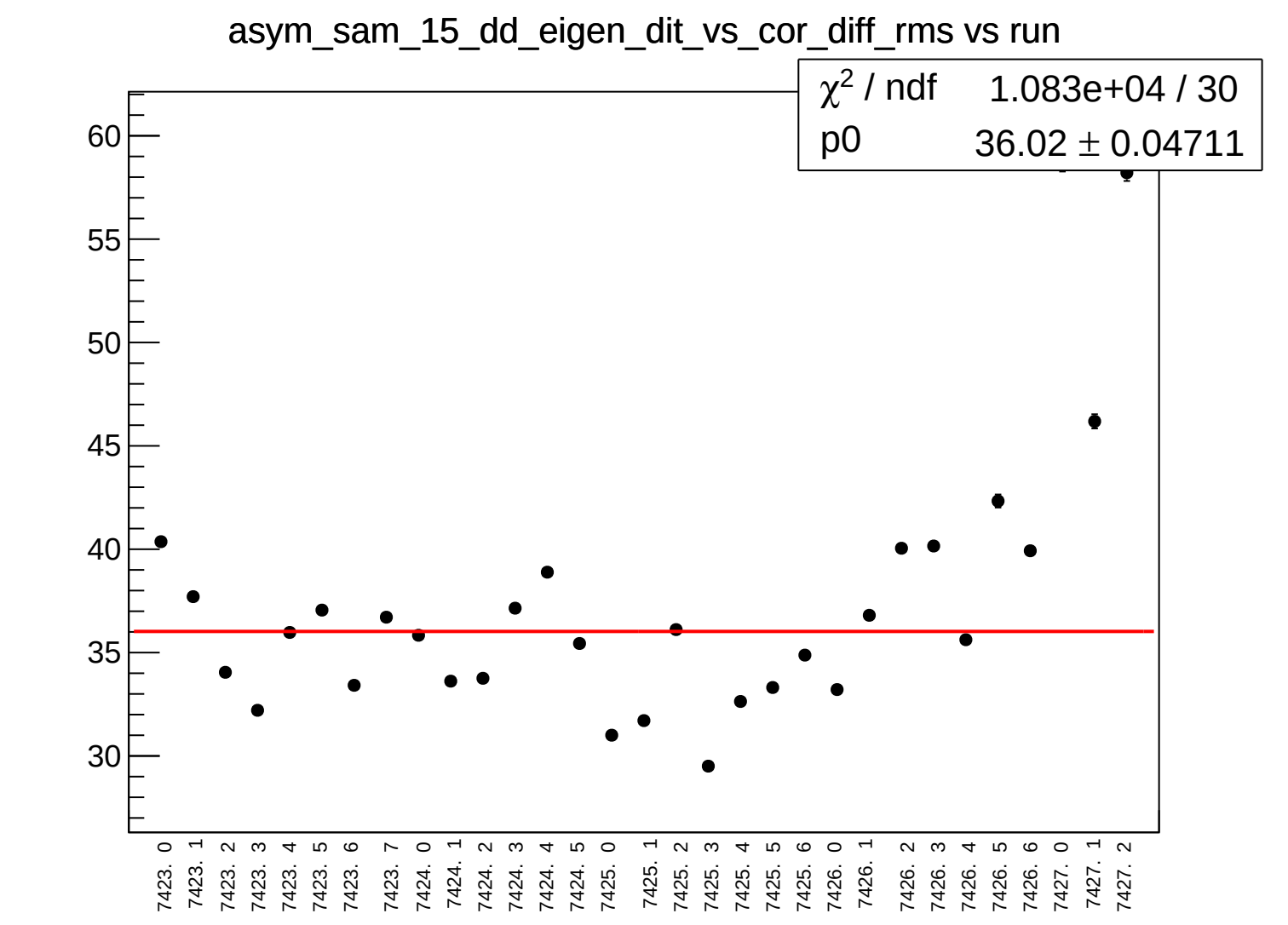

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 20.73 / 30
p0 −2.371e−06 ± 4.867e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 503.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.007033
Std Dev 0.8177
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

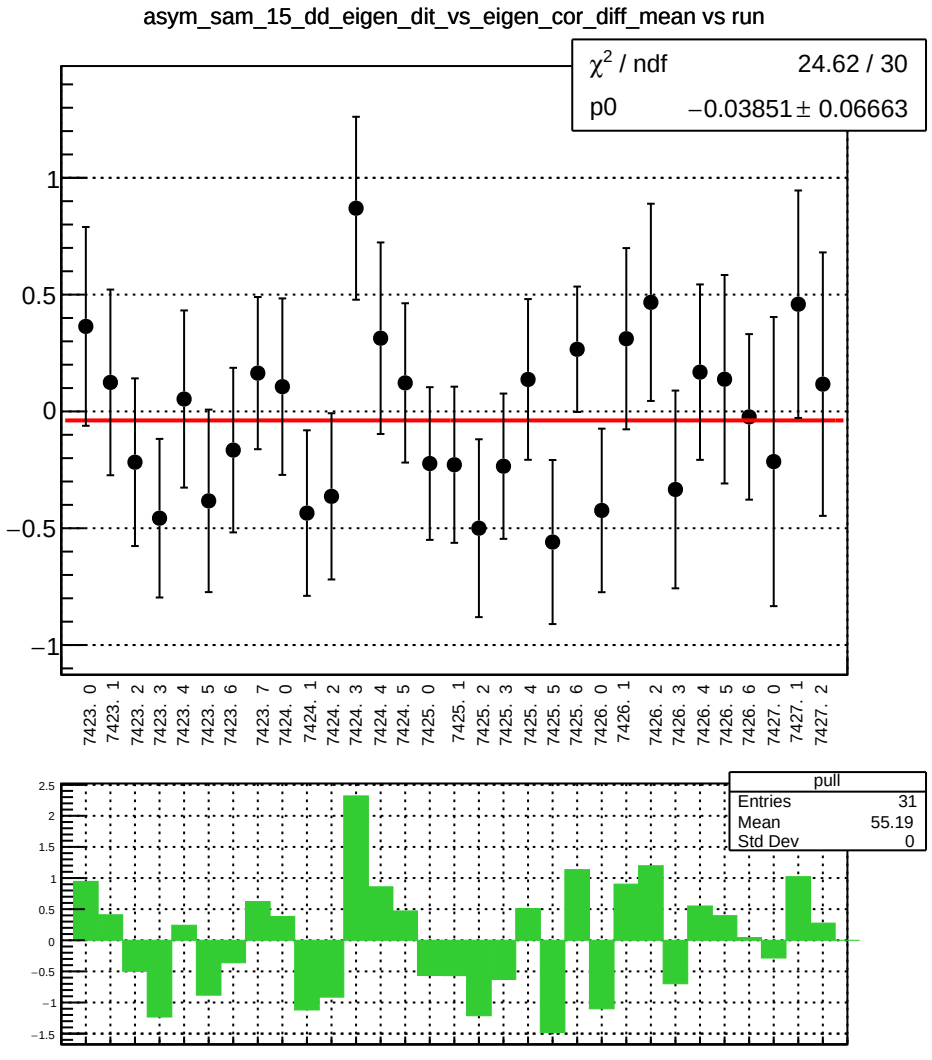

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2062 / 30
p0 0.002651 ± 3.442e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

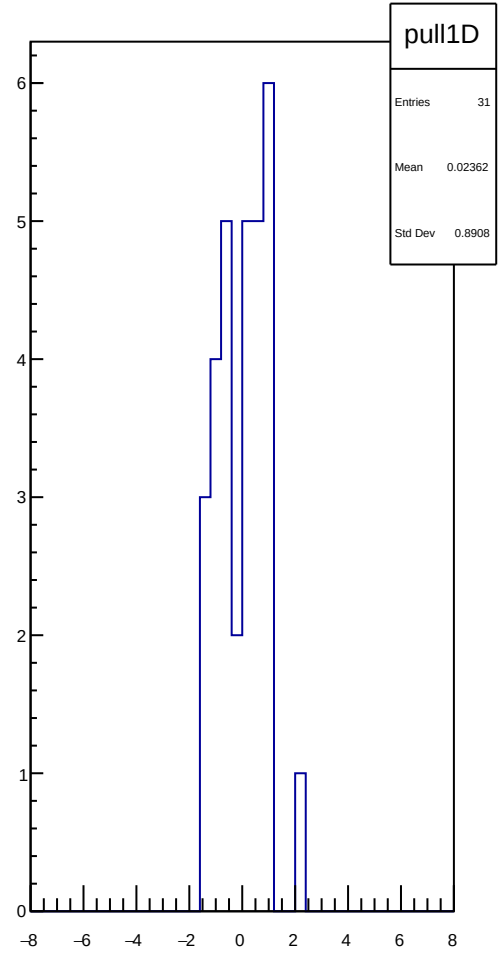

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.62 / 30
p0 −0.03851 ± 0.06663
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

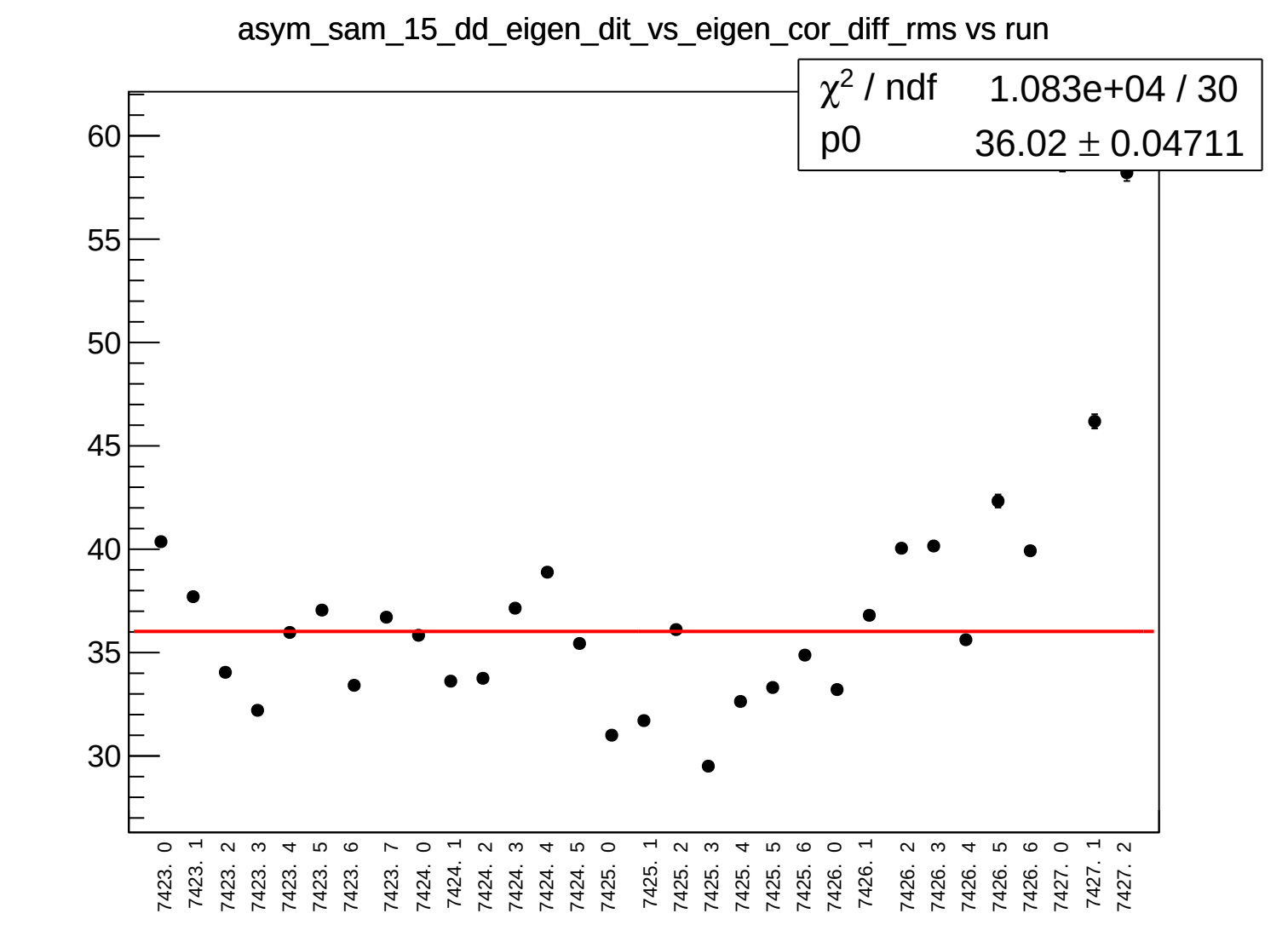

pull
Entries 31
Mean 55.19
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

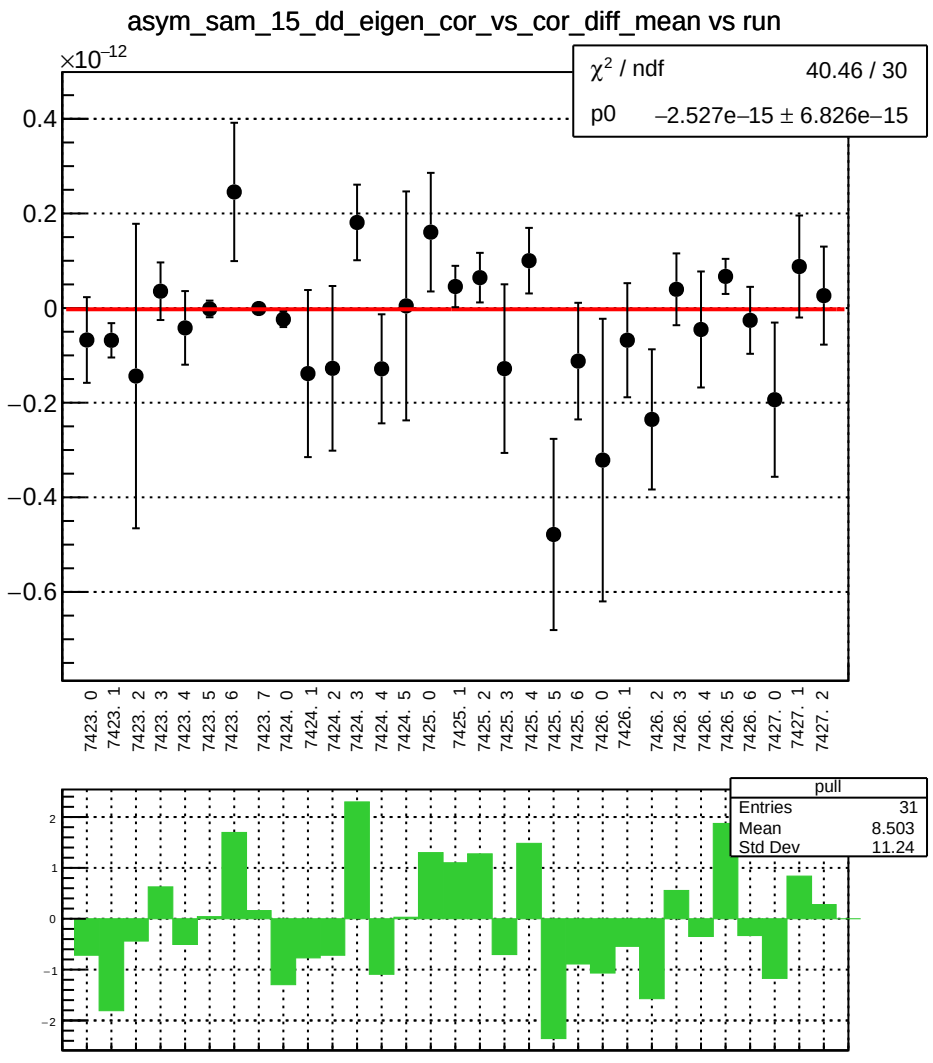

pull1D
Entries 31
Mean 0.02362
Std Dev 0.8908
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

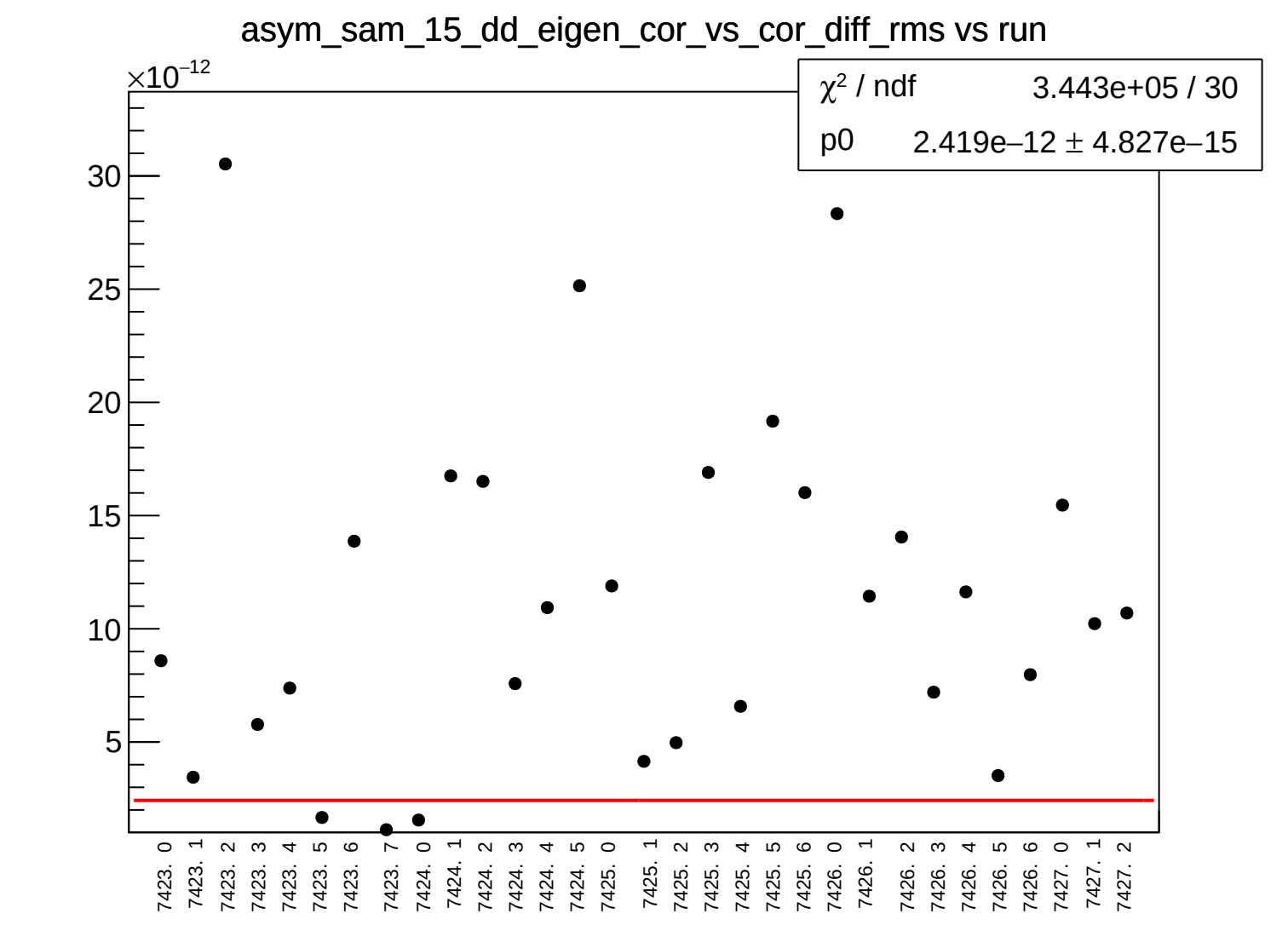

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ2 / ndf 1.083e+04 / 30
p0 36.02 ± 0.04711
60
55
50
45
40
35
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

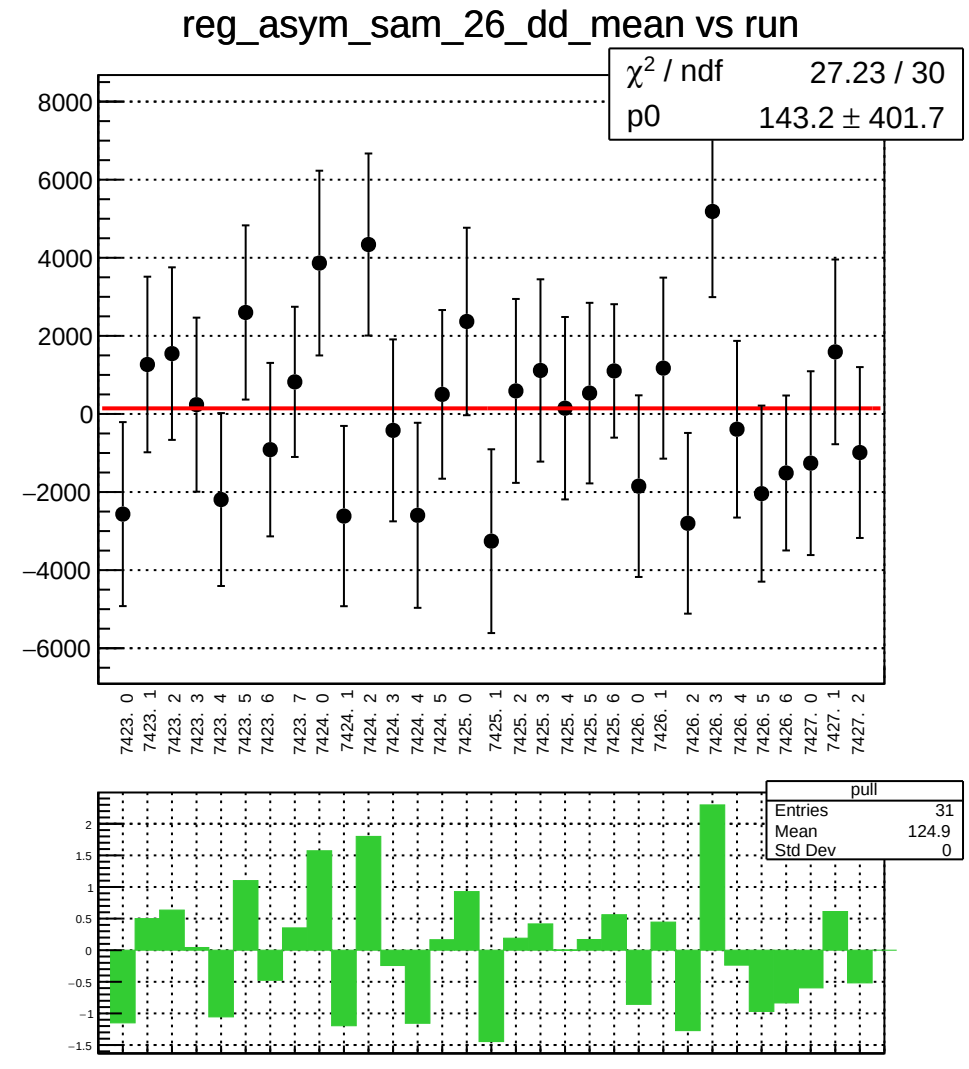

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.62 / 30
p0 −0.03851 ± 0.06663
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 55.19
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

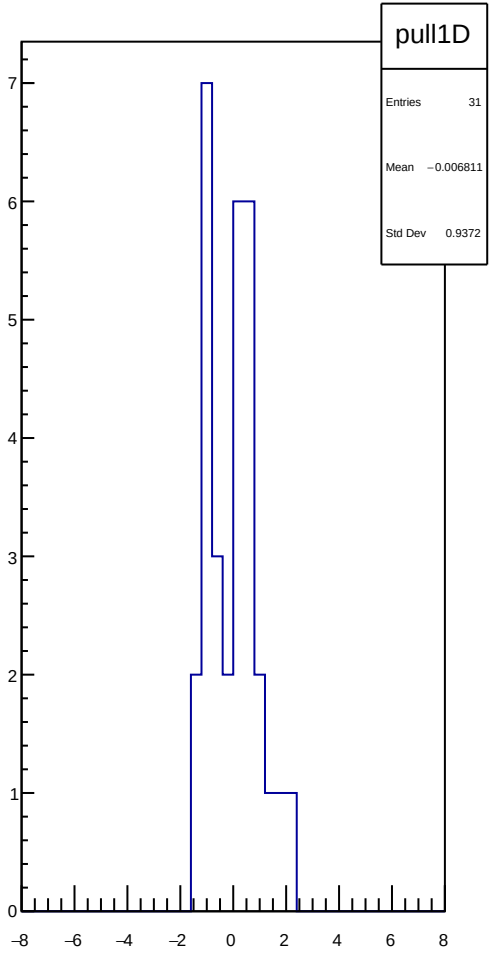

pull1D
Entries 31
Mean 0.02362
Std Dev 0.8908
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

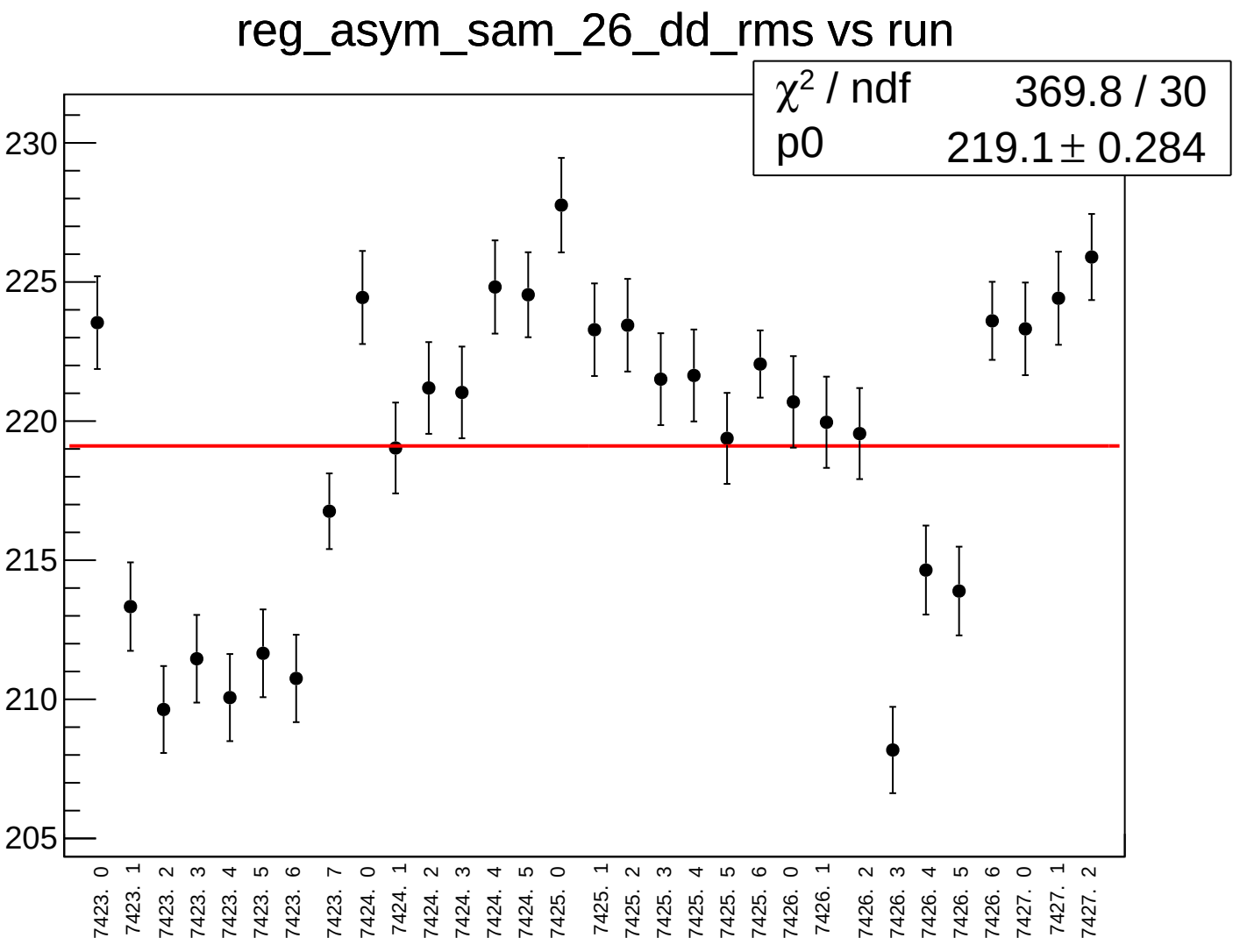

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 1.083e+04 / 30
p0 36.02 ± 0.04711
60
55
50
45
40
35
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

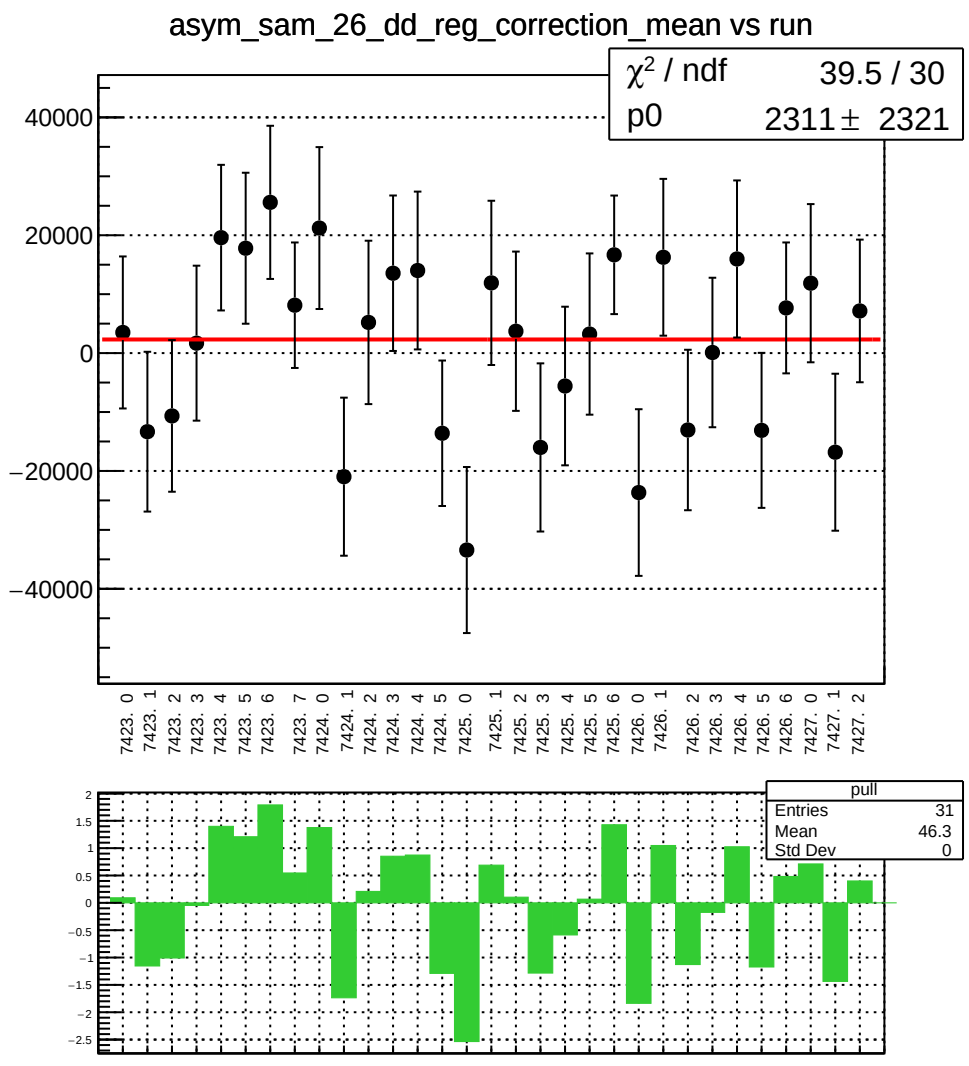

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.46 / 30
p0 −2.527e−15 ± 6.826e−15
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.503
Std Dev 11.24
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.08924
Std Dev 1.139
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

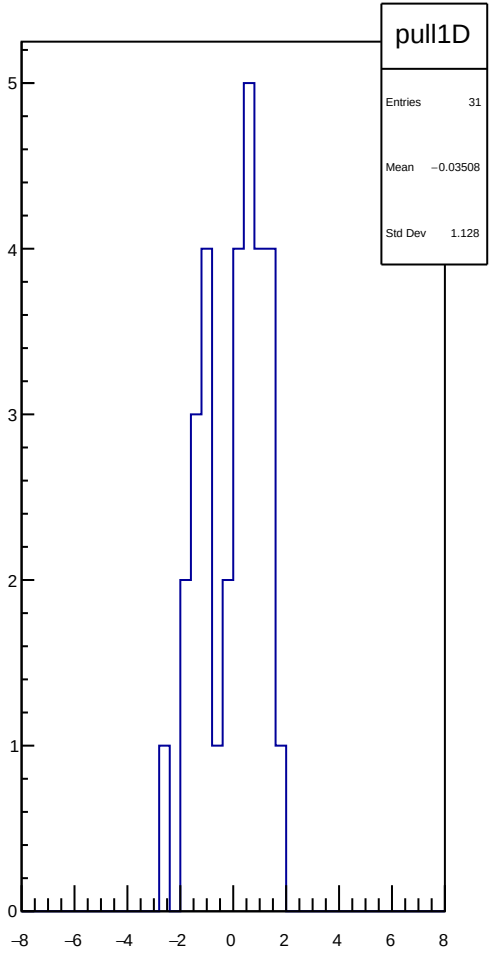

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.443e+05 / 30
p0 2.419e−12 ± 4.827e−15
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

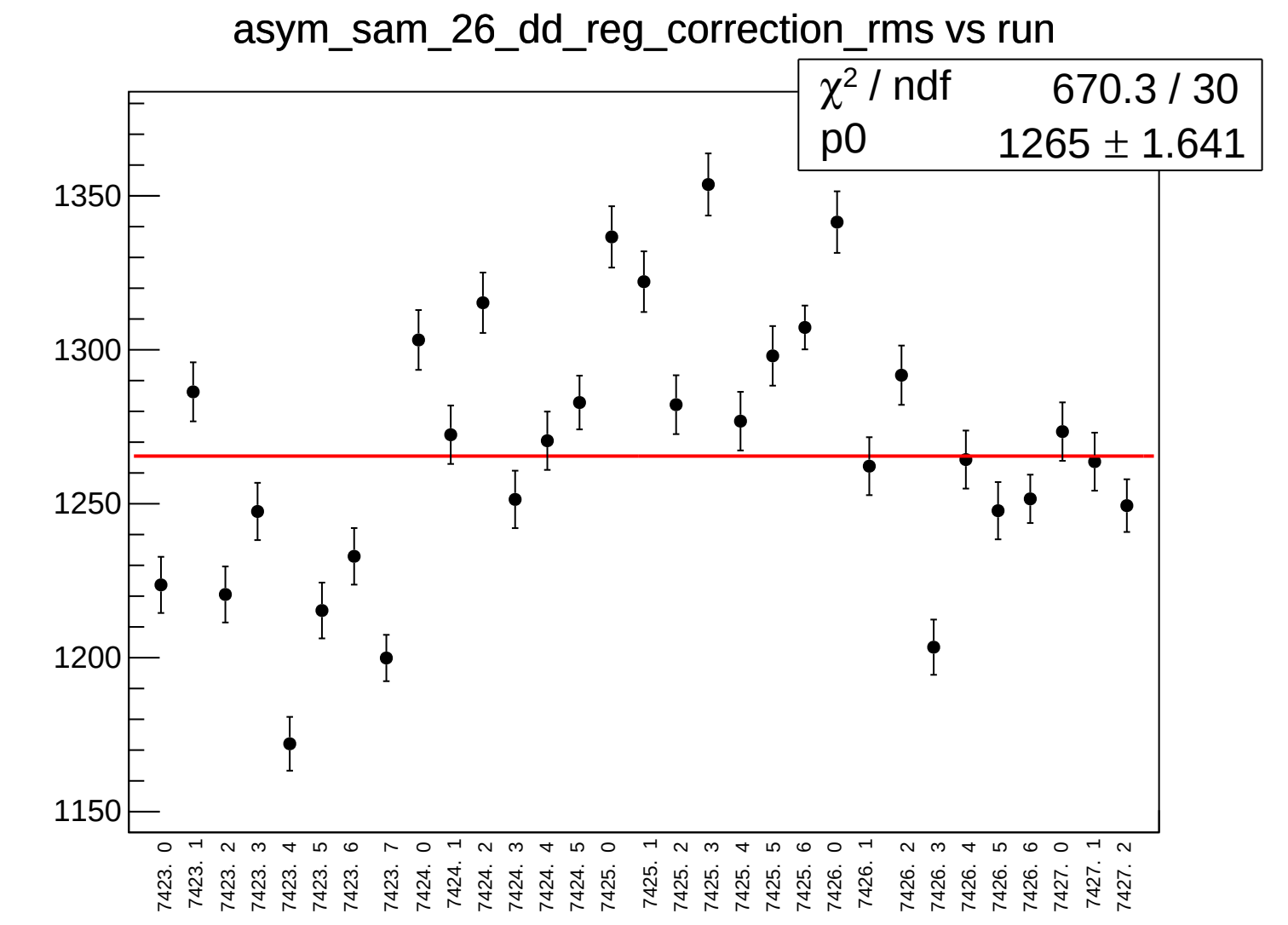

reg_asym_sam_26_dd_mean vs run
χ² / ndf 27.23 / 30
p0 143.2 ± 401.7
8000
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

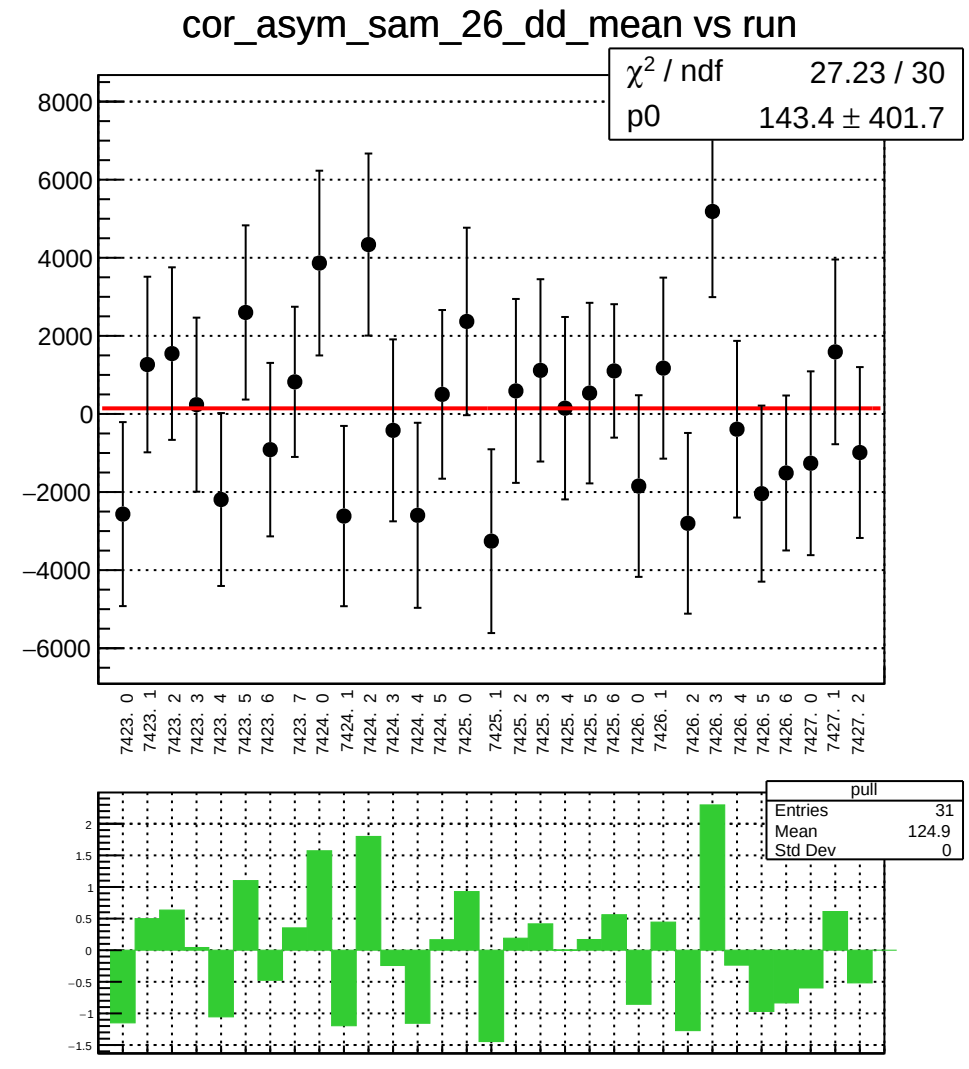

pull1D
Entries 31
Mean −0.006811
Std Dev 0.9372
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

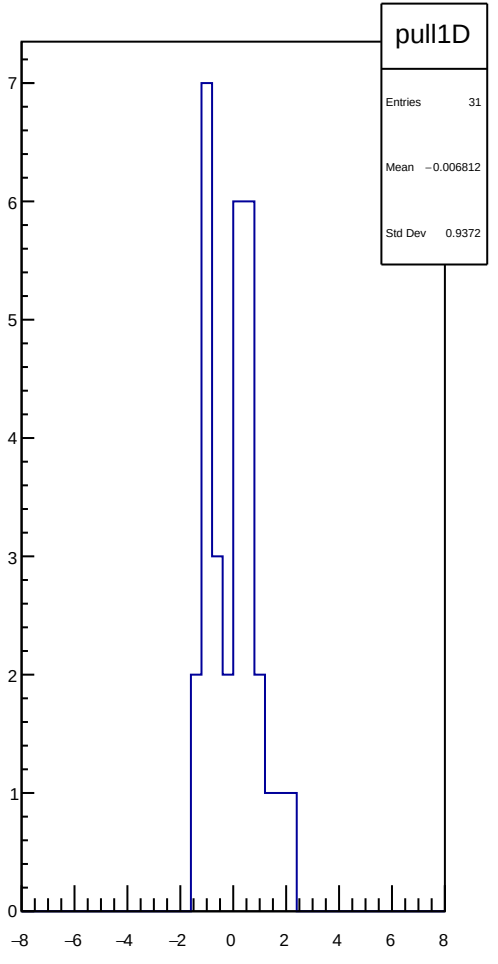

reg_asym_sam_26_dd_rms vs run
χ² / ndf 369.8 / 30
p0 219.1 ± 0.284
230
225
220
215
210
205
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

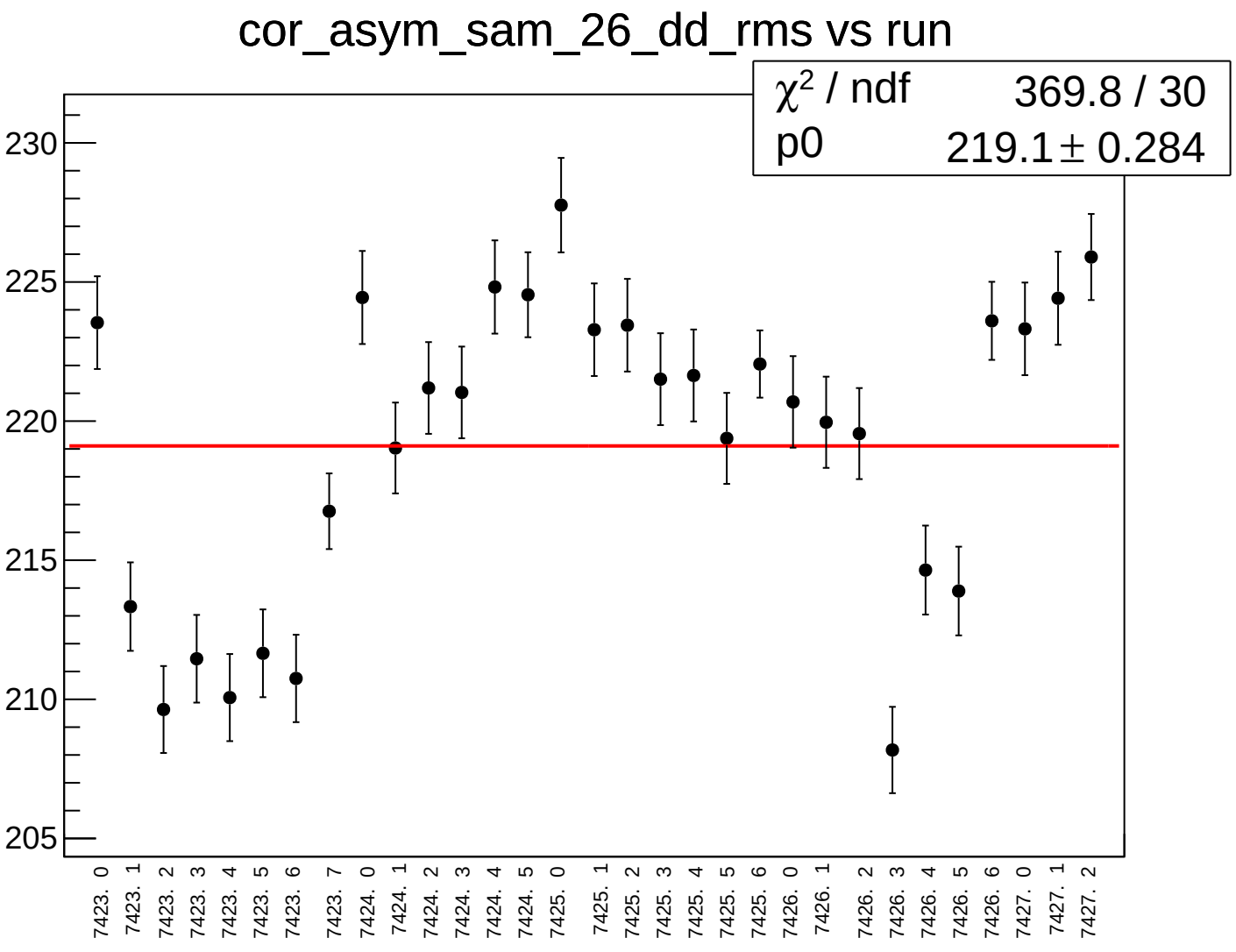

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 39.5 / 30
p0 2311 ± 2321
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 46.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

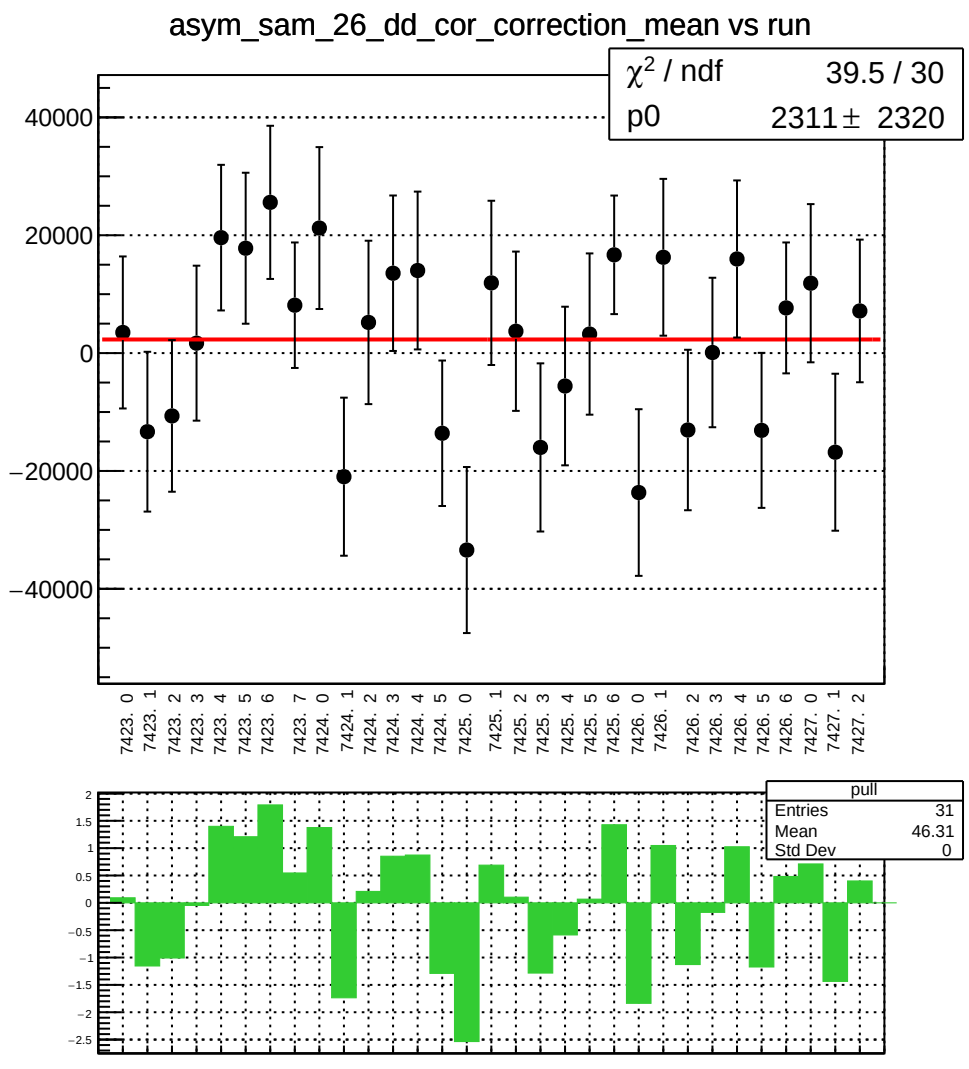

pull1D
Entries 31
Mean −0.03508
Std Dev 1.128
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

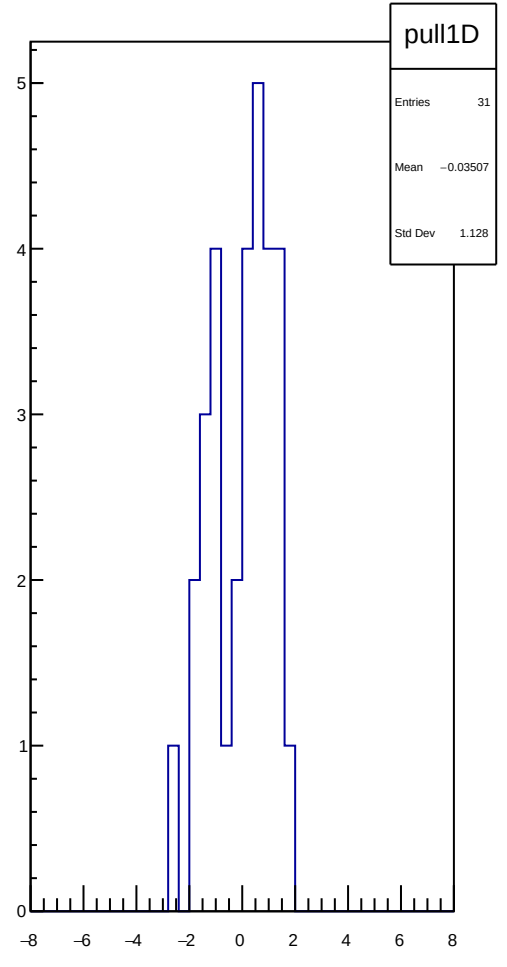

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 670.3 / 30
p0 1265 ± 1.641
1350
1300
1250
1200
1150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

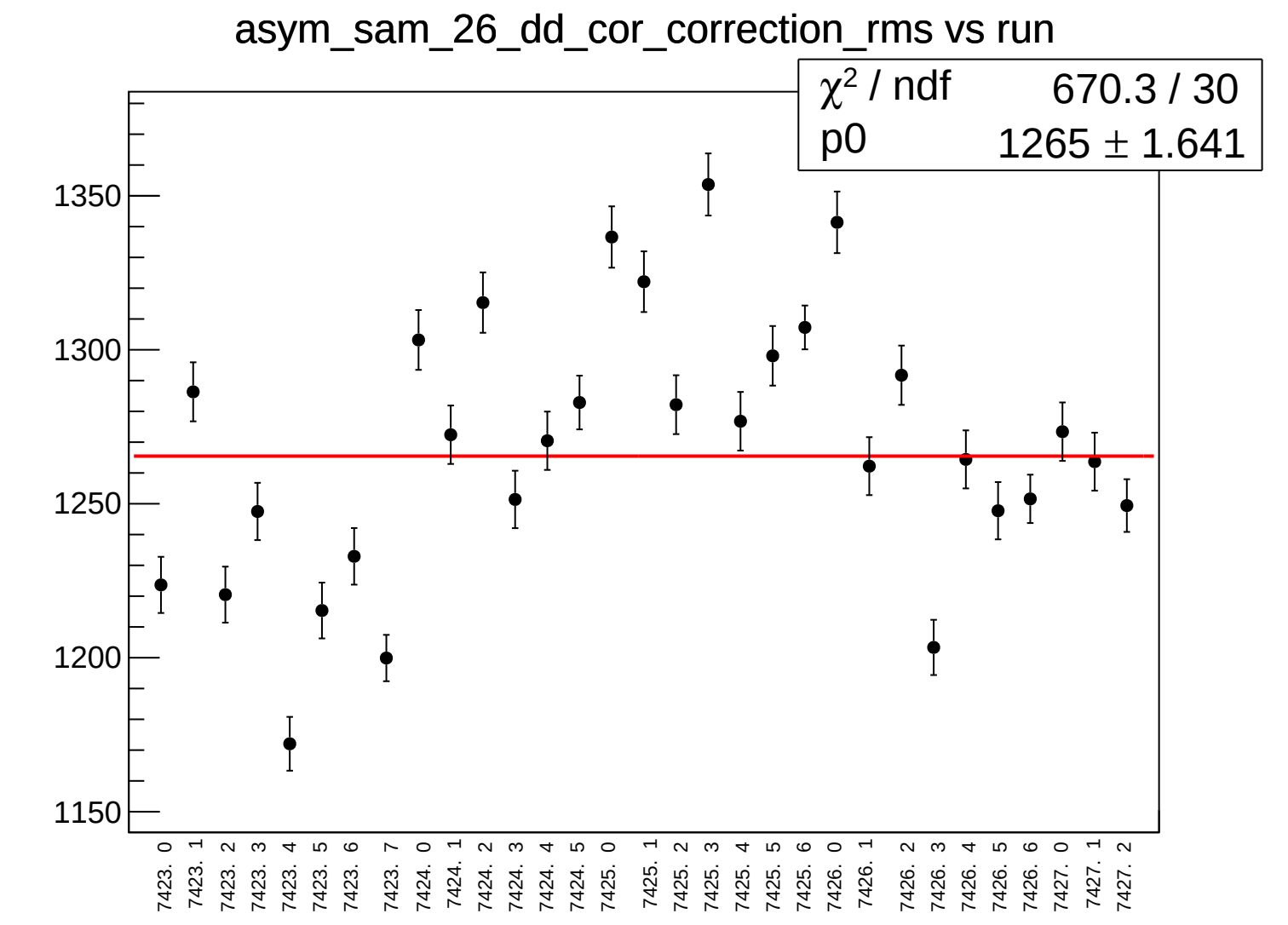

cor_asym_sam_26_dd_mean vs run
χ² / ndf 27.23 / 30
p0 143.4 ± 401.7
8000
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

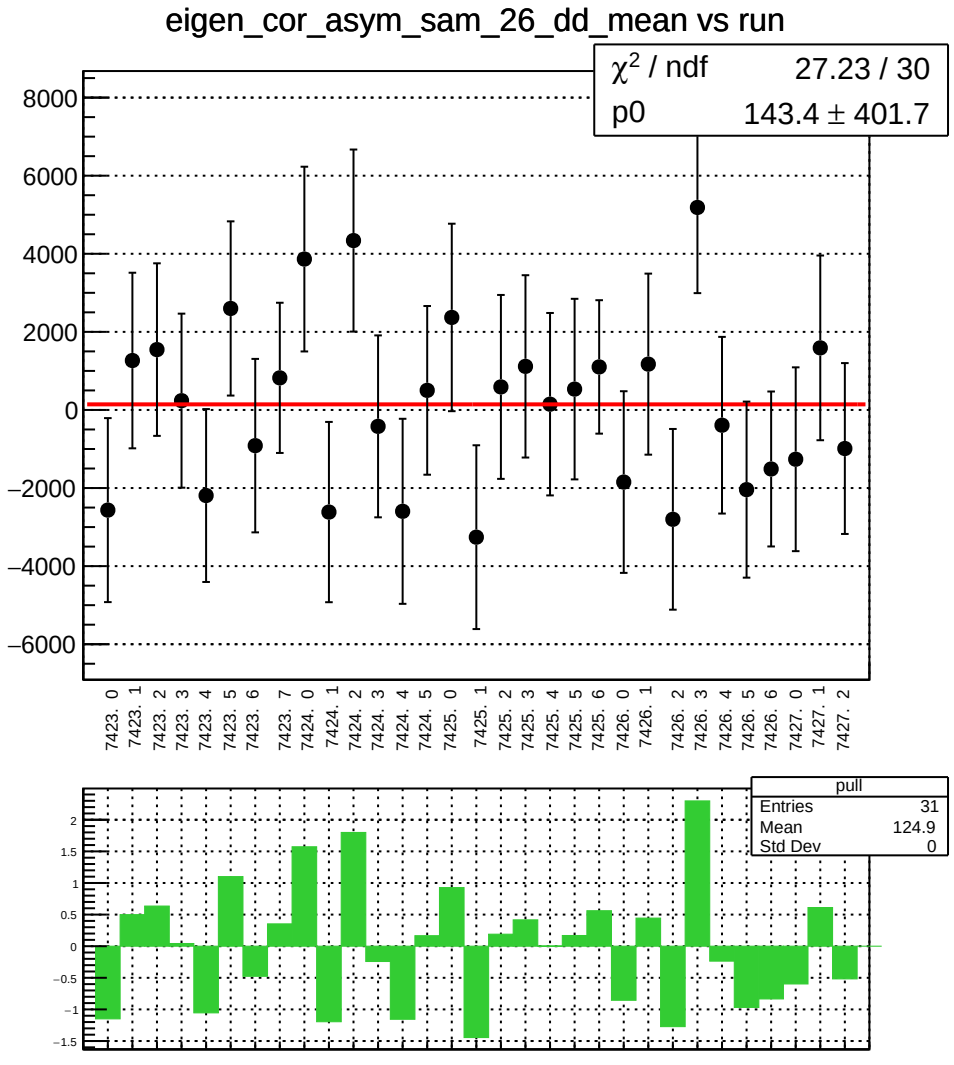

pull1D
Entries 31
Mean −0.006812
Std Dev 0.9372
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

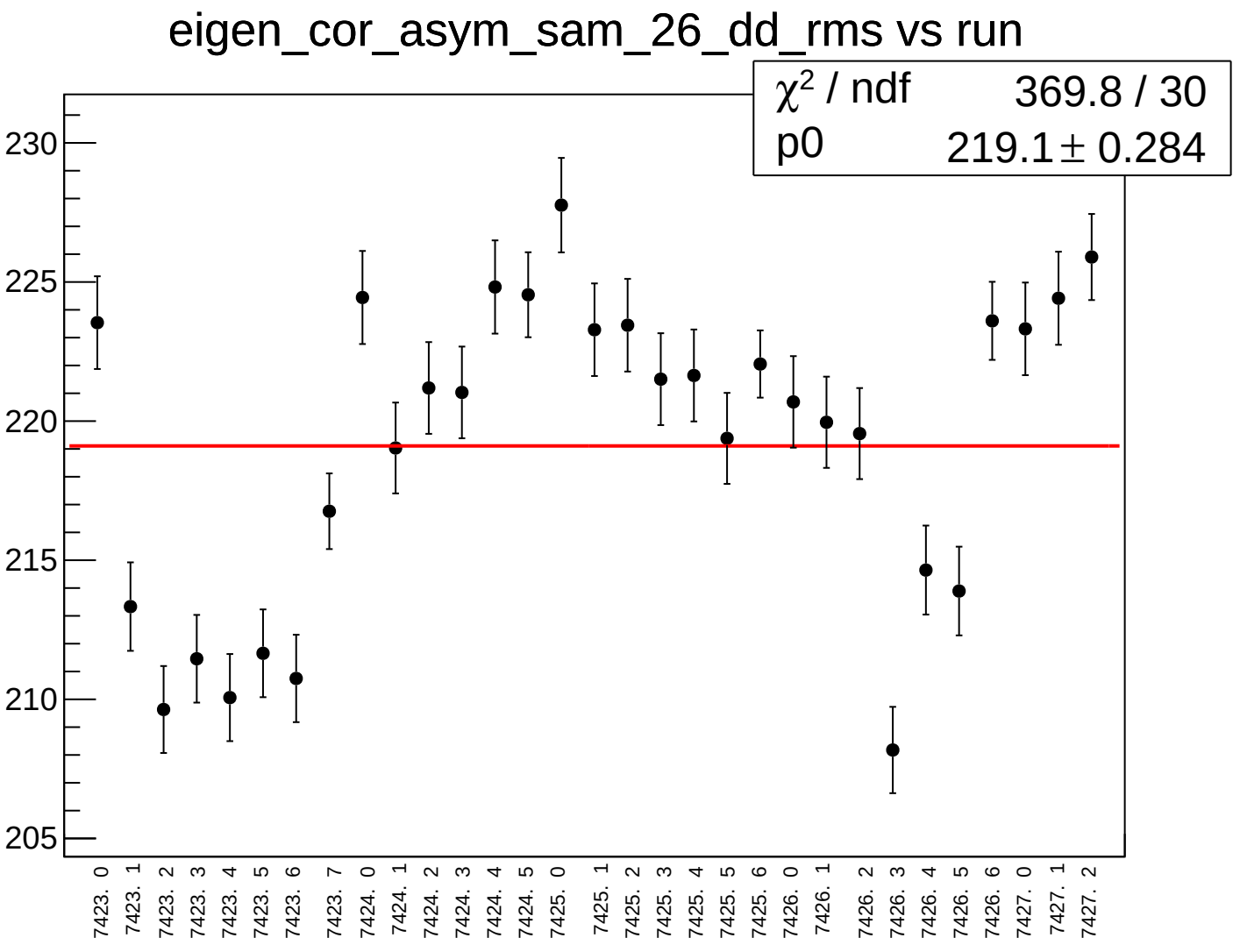

cor_asym_sam_26_dd_rms vs run
χ² / ndf 369.8 / 30
p0 219.1 ± 0.284
230
225
220
215
210
205
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

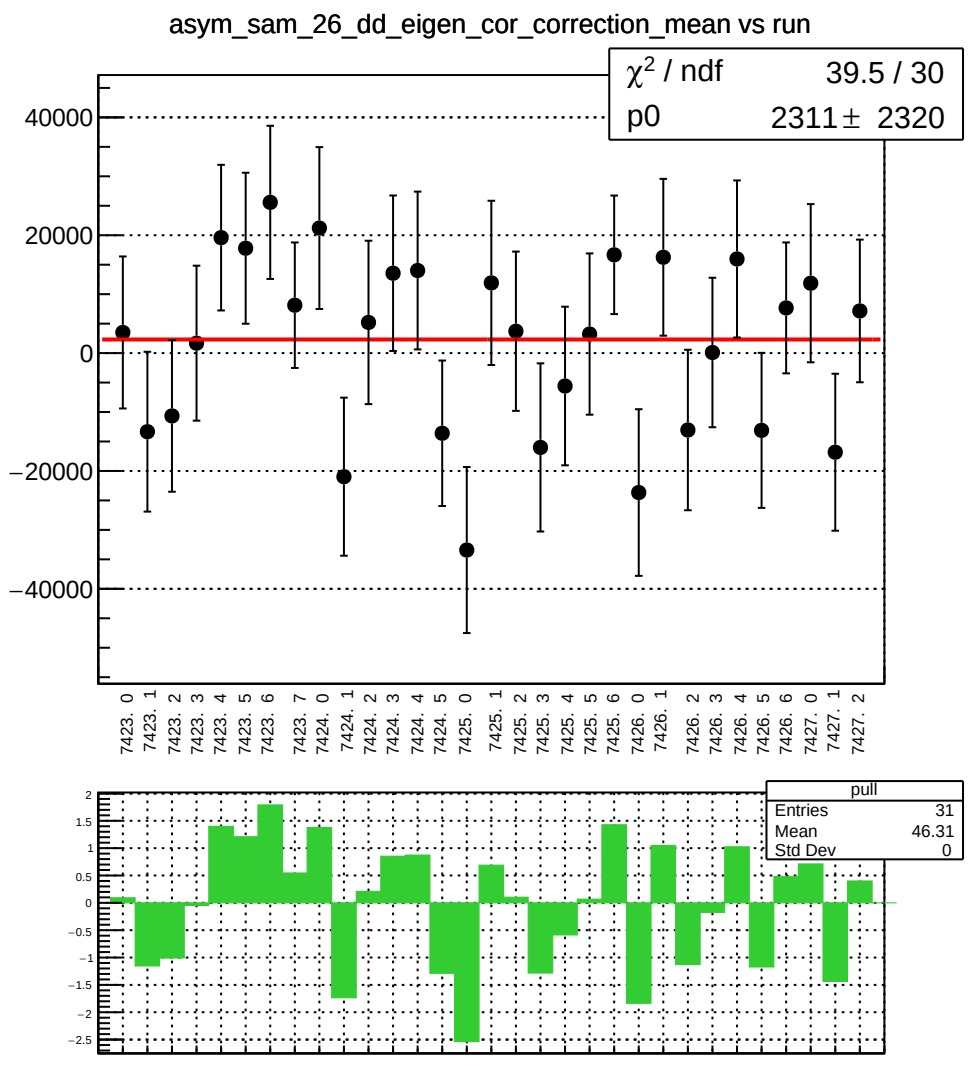

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 39.5 / 30
p0 2311 ± 2320
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 46.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

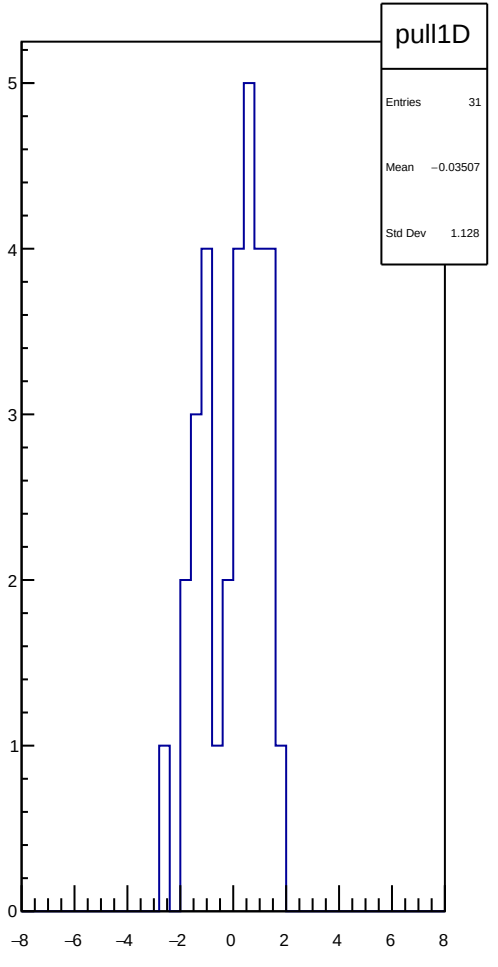

pull1D
Entries 31
Mean −0.03507
Std Dev 1.128
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

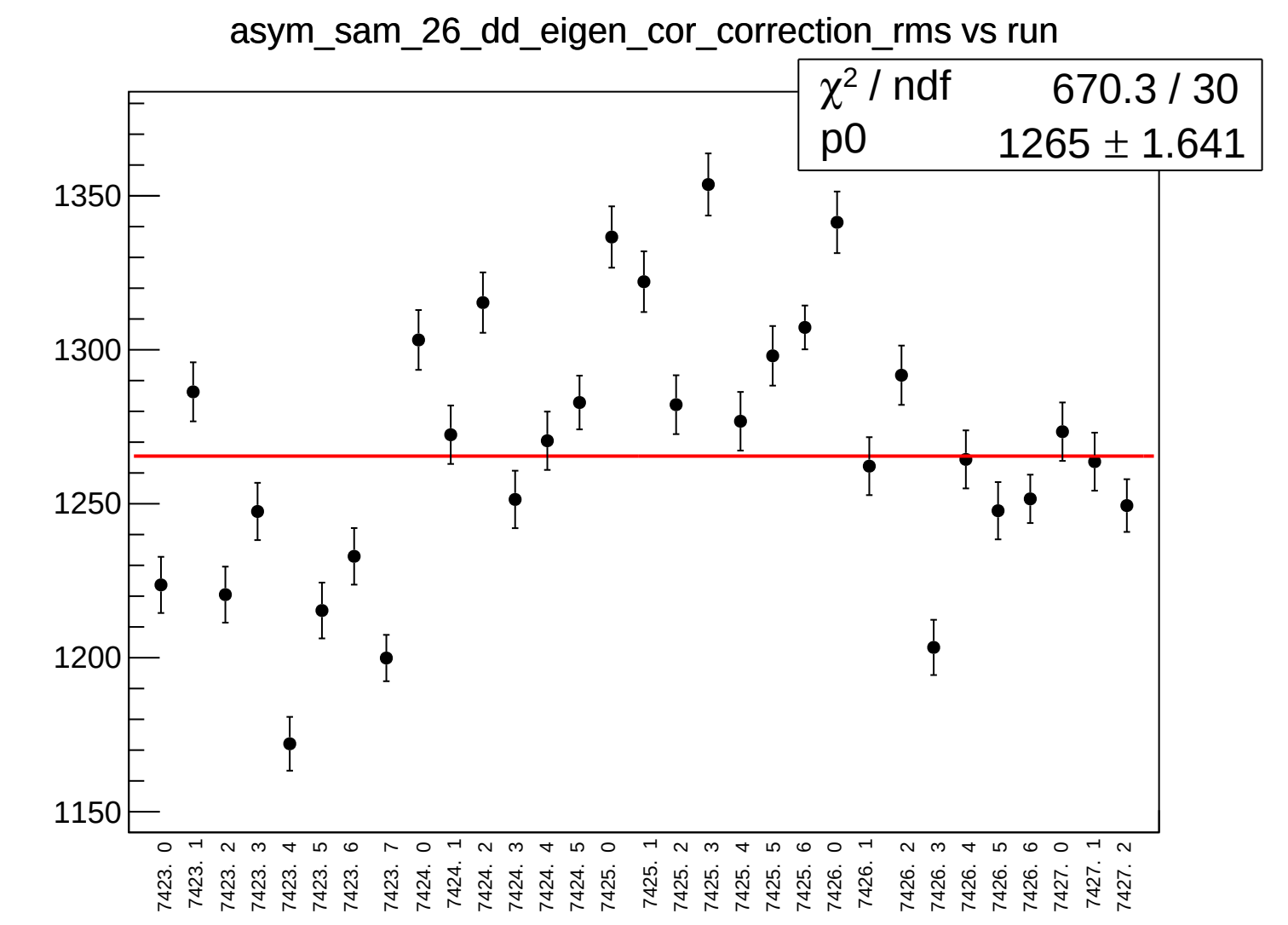

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 670.3 / 30
p0 1265 ± 1.641
1350
1300
1250
1200
1150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

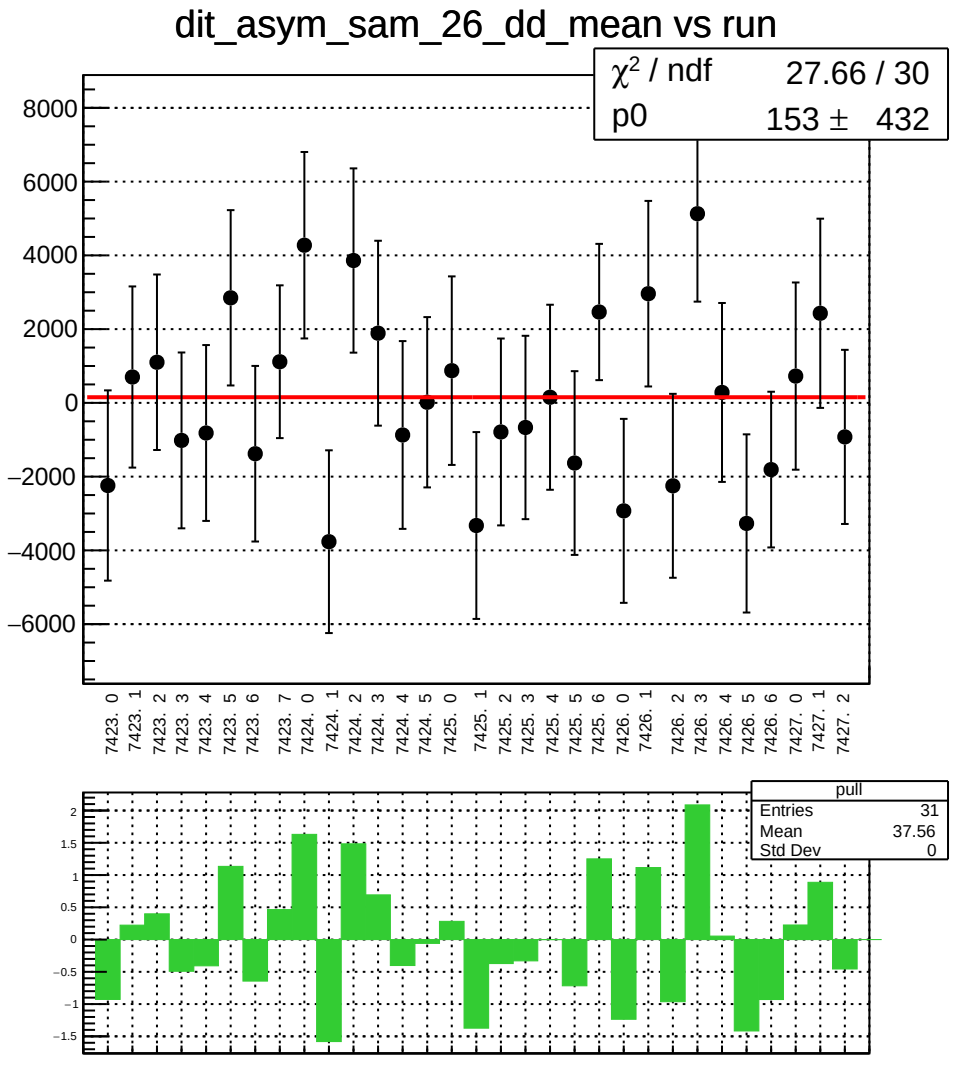

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 27.23 / 30
p0 143.4 ± 401.7
8000
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.006812
Std Dev 0.9372
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

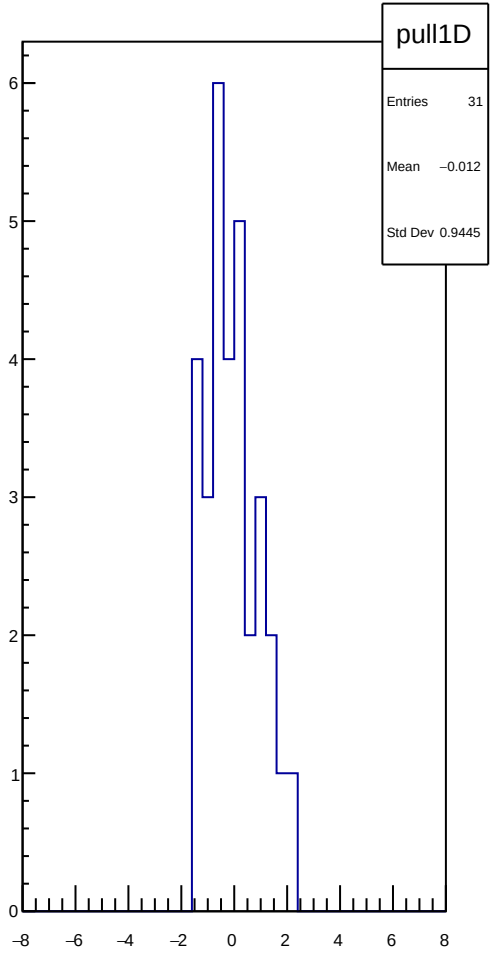

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 369.8 / 30
p0 219.1 ± 0.284
230
225
220
215
210
205
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

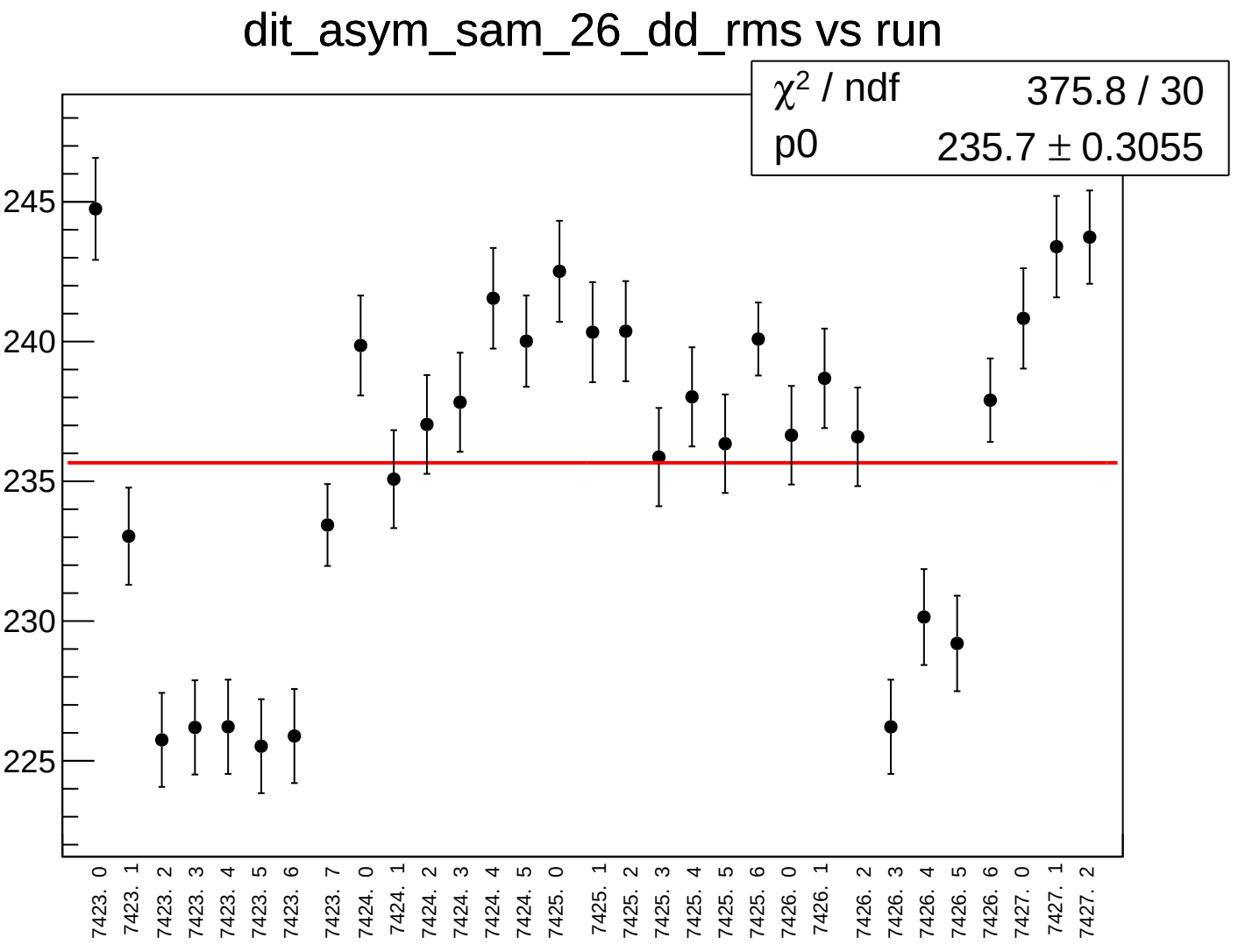

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 39.5 / 30
p0 2311 ± 2320
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 46.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

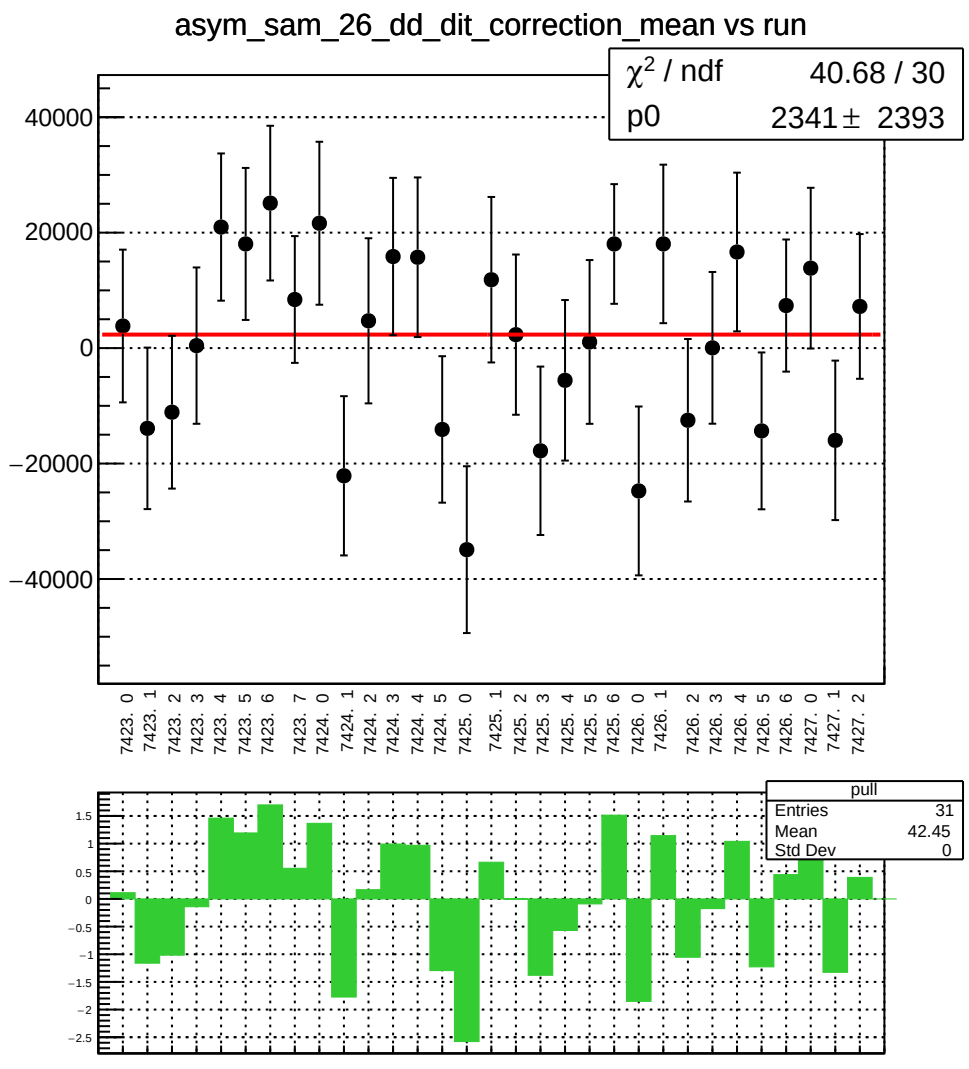

pull1D
Entries 31
Mean −0.03507
Std Dev 1.128
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

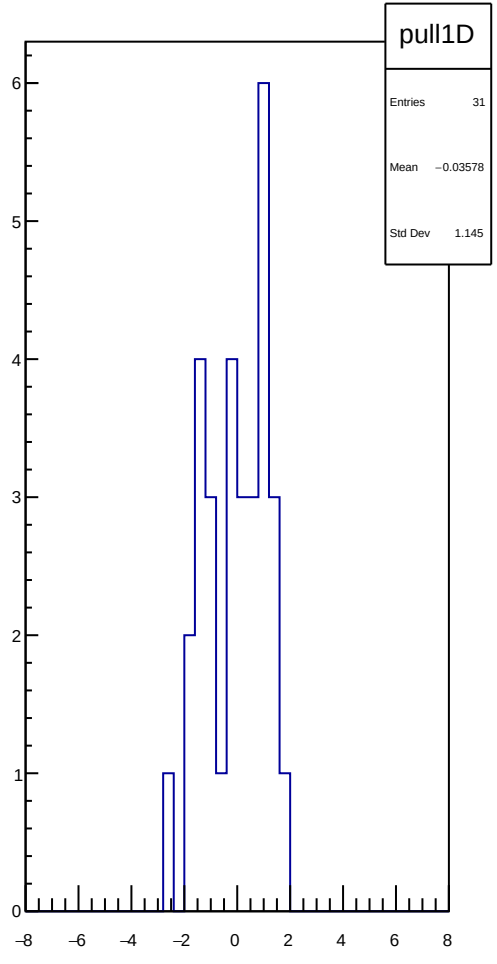

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 670.3 / 30
p0 1265 ± 1.641
1350
1300
1250
1200
1150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

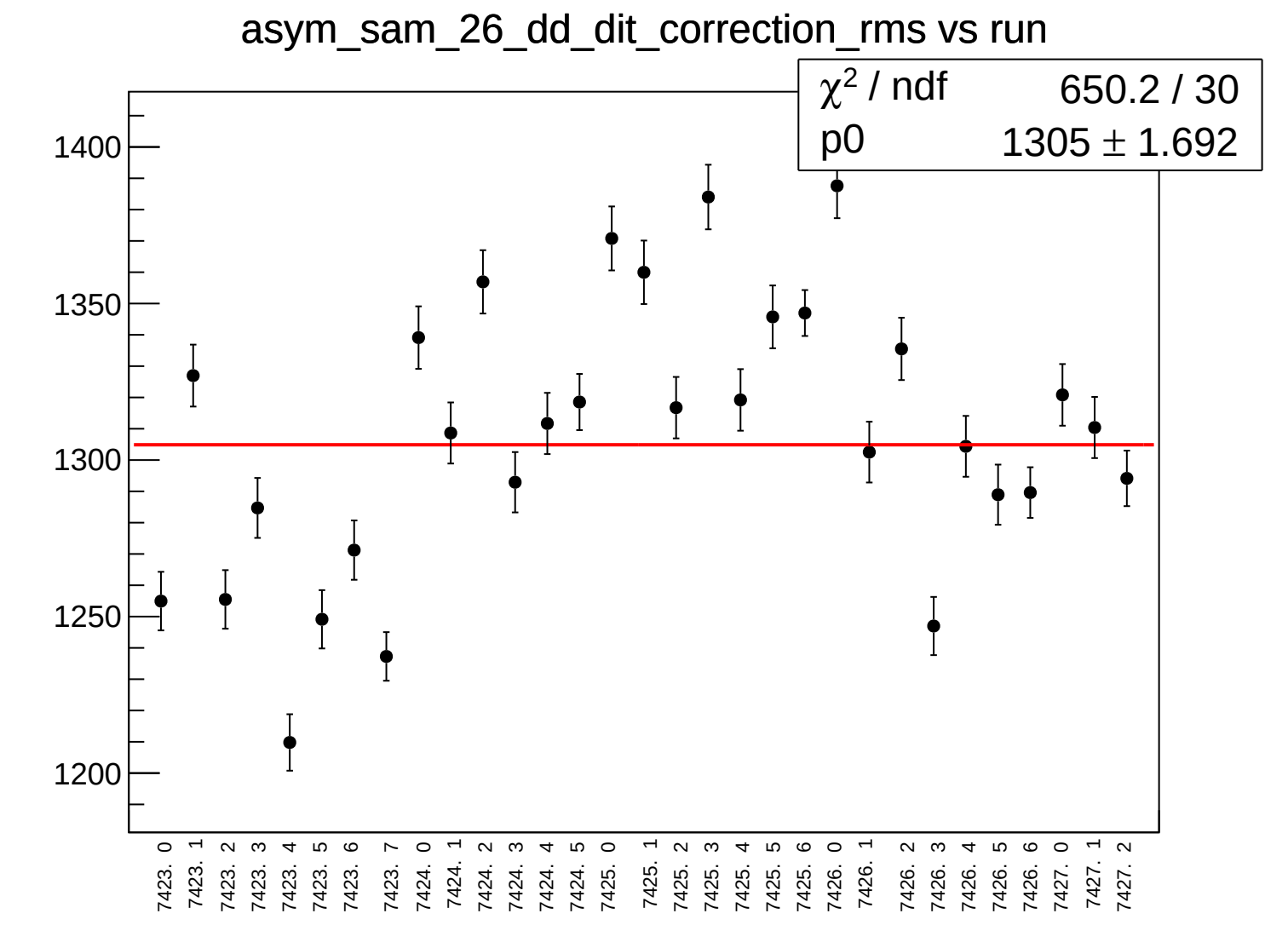

dit_asym_sam_26_dd_mean vs run
χ² / ndf 27.66 / 30
p0 153 ± 432
8000
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 37.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

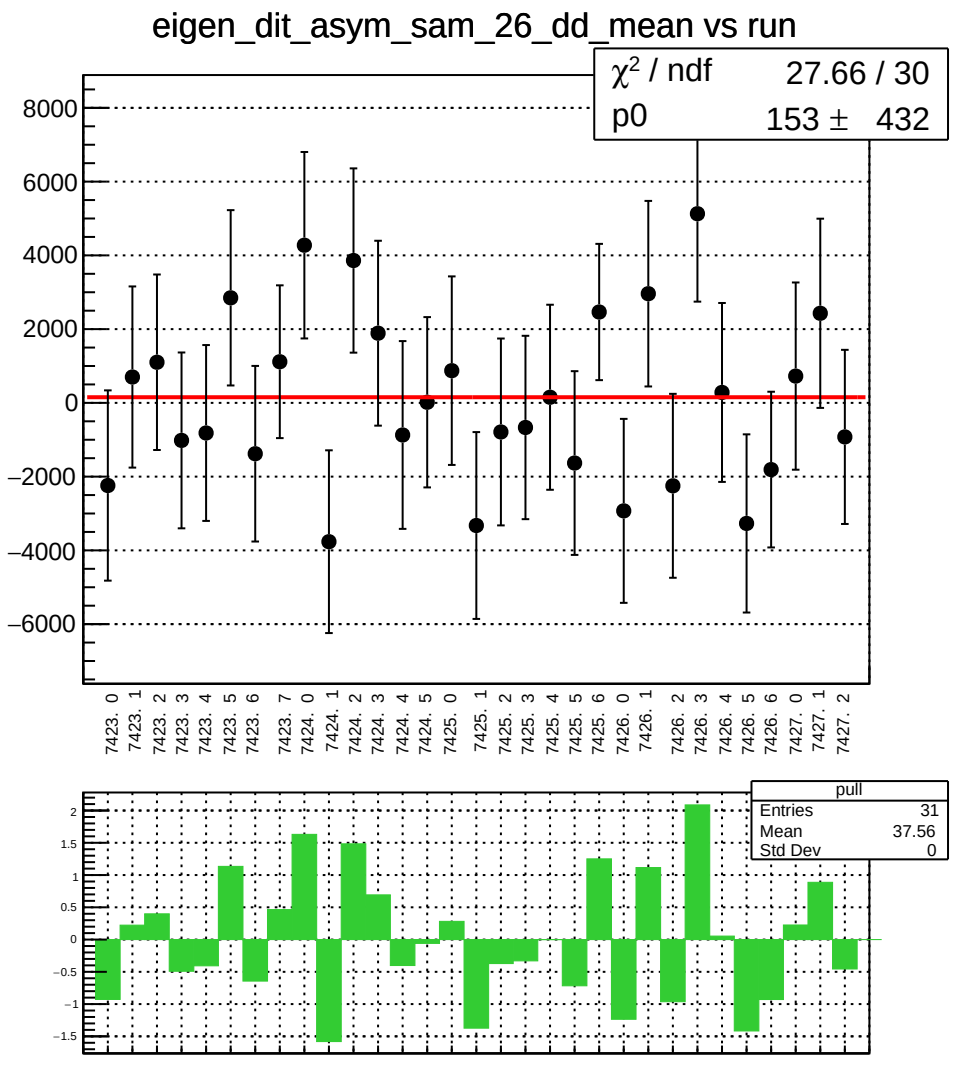

pull1D
Entries 31
Mean −0.012
Std Dev 0.9445
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

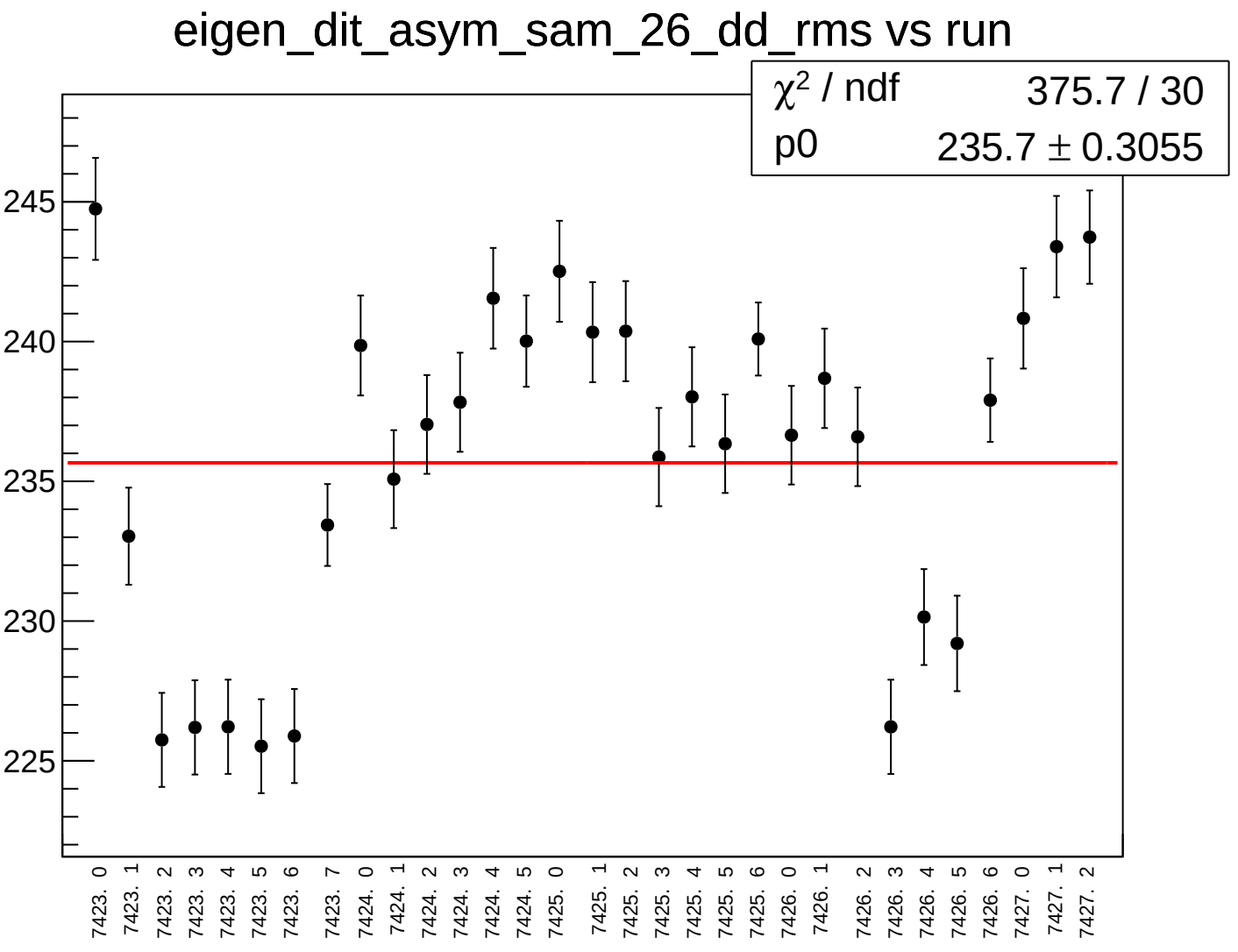

dit_asym_sam_26_dd_rms vs run
χ² / ndf 375.8 / 30
p0 235.7 ± 0.3055
245
240
235
230
225
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

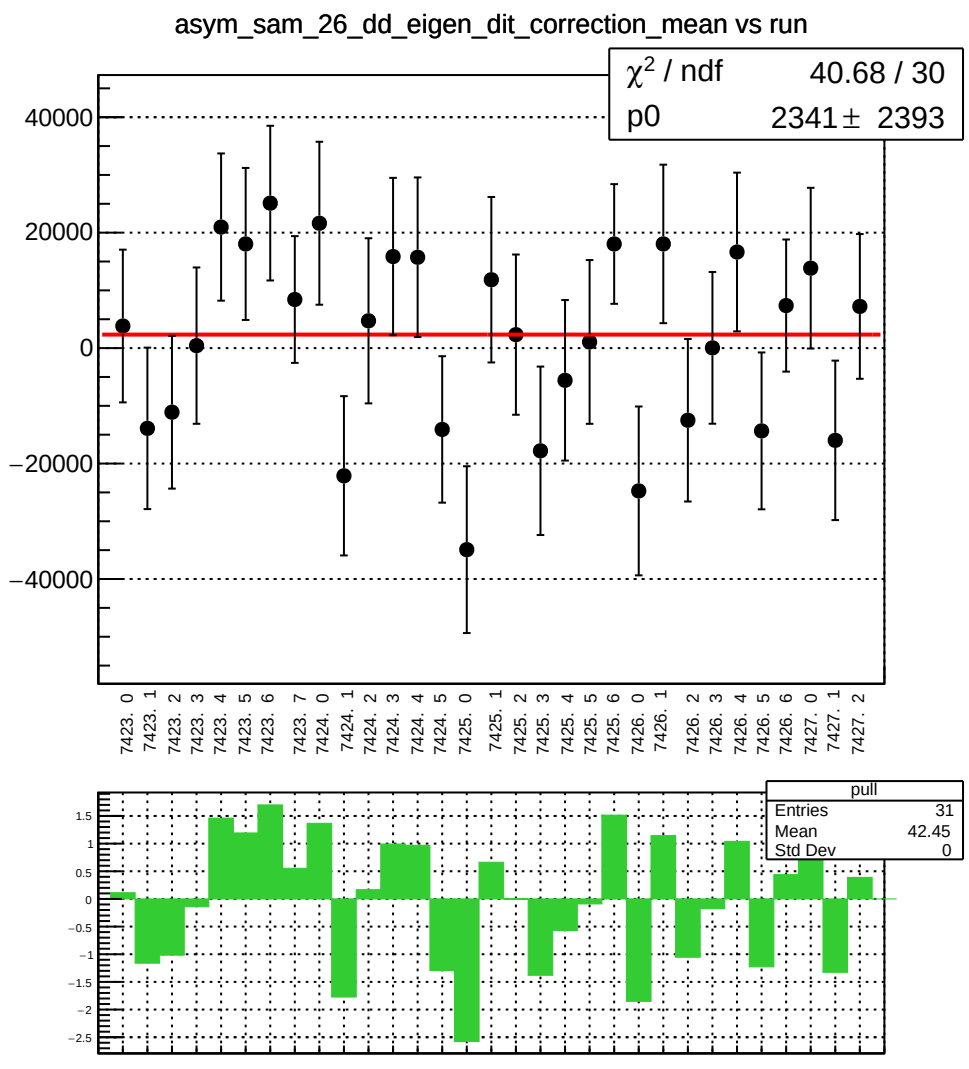

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 40.68 / 30
p0 2341 ± 2393
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 42.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

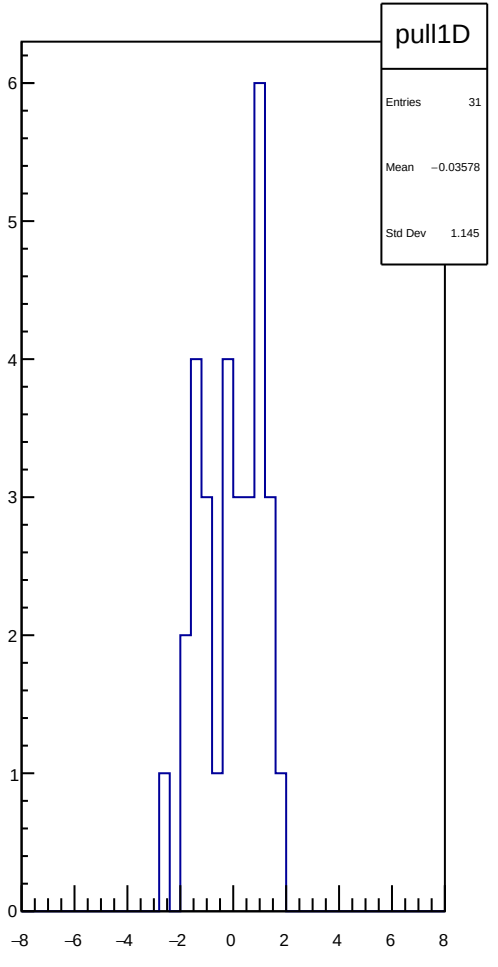

pull1D
Entries 31
Mean −0.03578
Std Dev 1.145
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

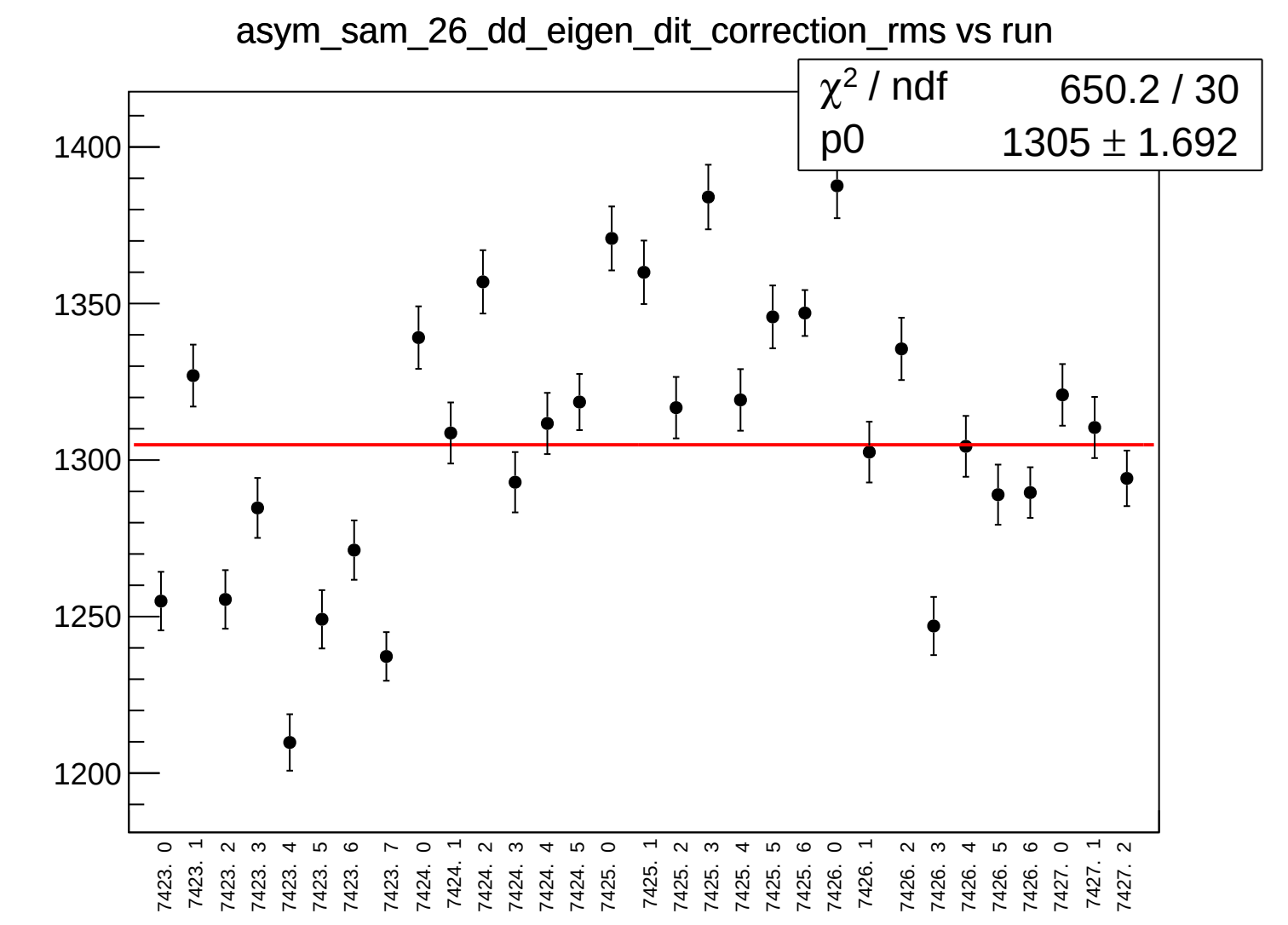

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 650.2 / 30
p0 1305 ± 1.692
1400
1350
1300
1250
1200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

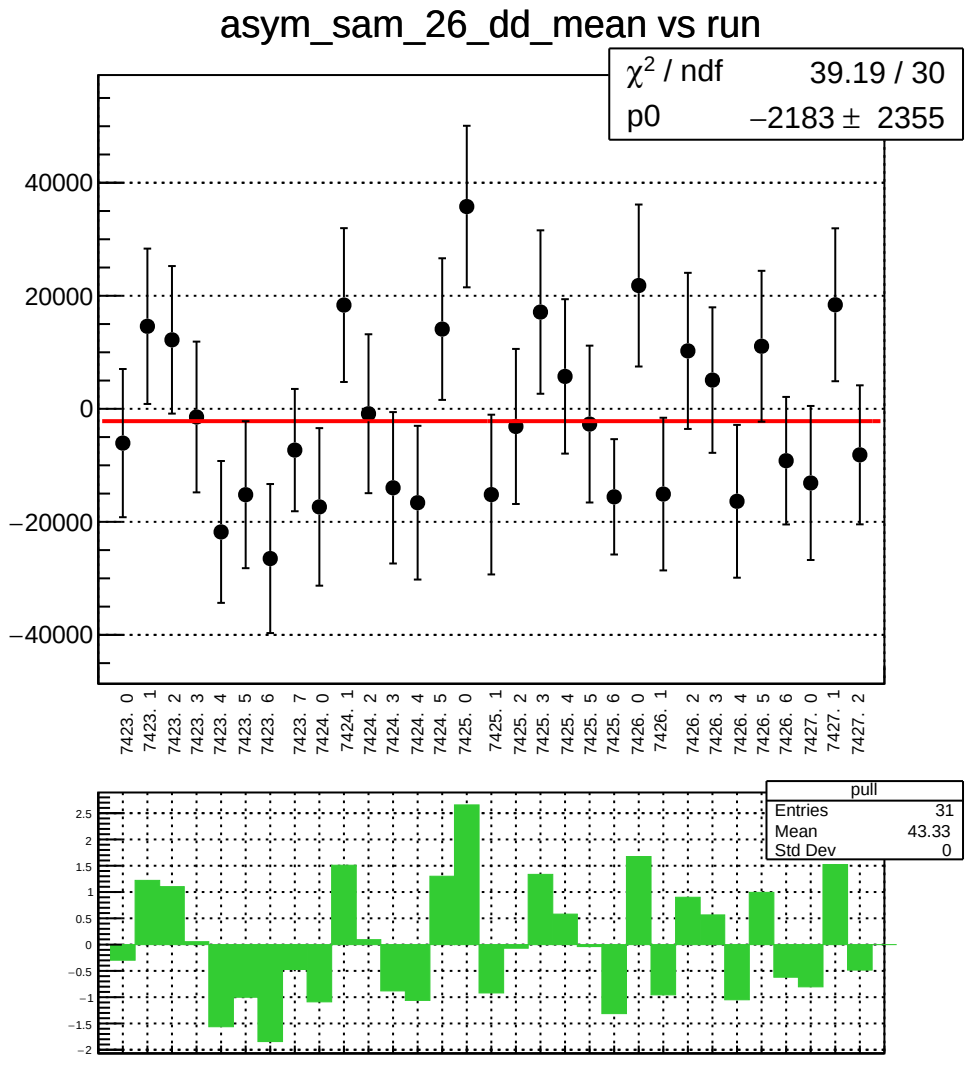

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 27.66 / 30
p0 153 ± 432
8000
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 37.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.012
Std Dev 0.9445
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

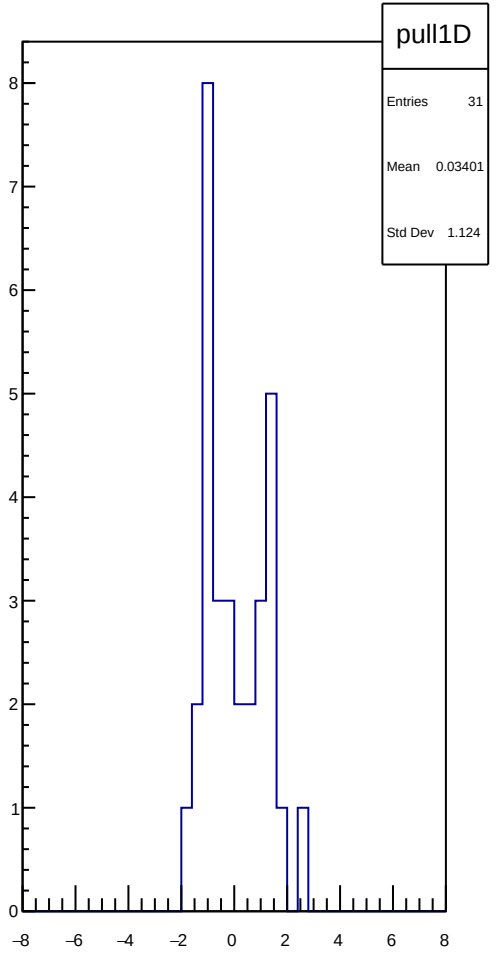

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 375.7 / 30
p0 235.7 ± 0.3055
245
240
235
230
225
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

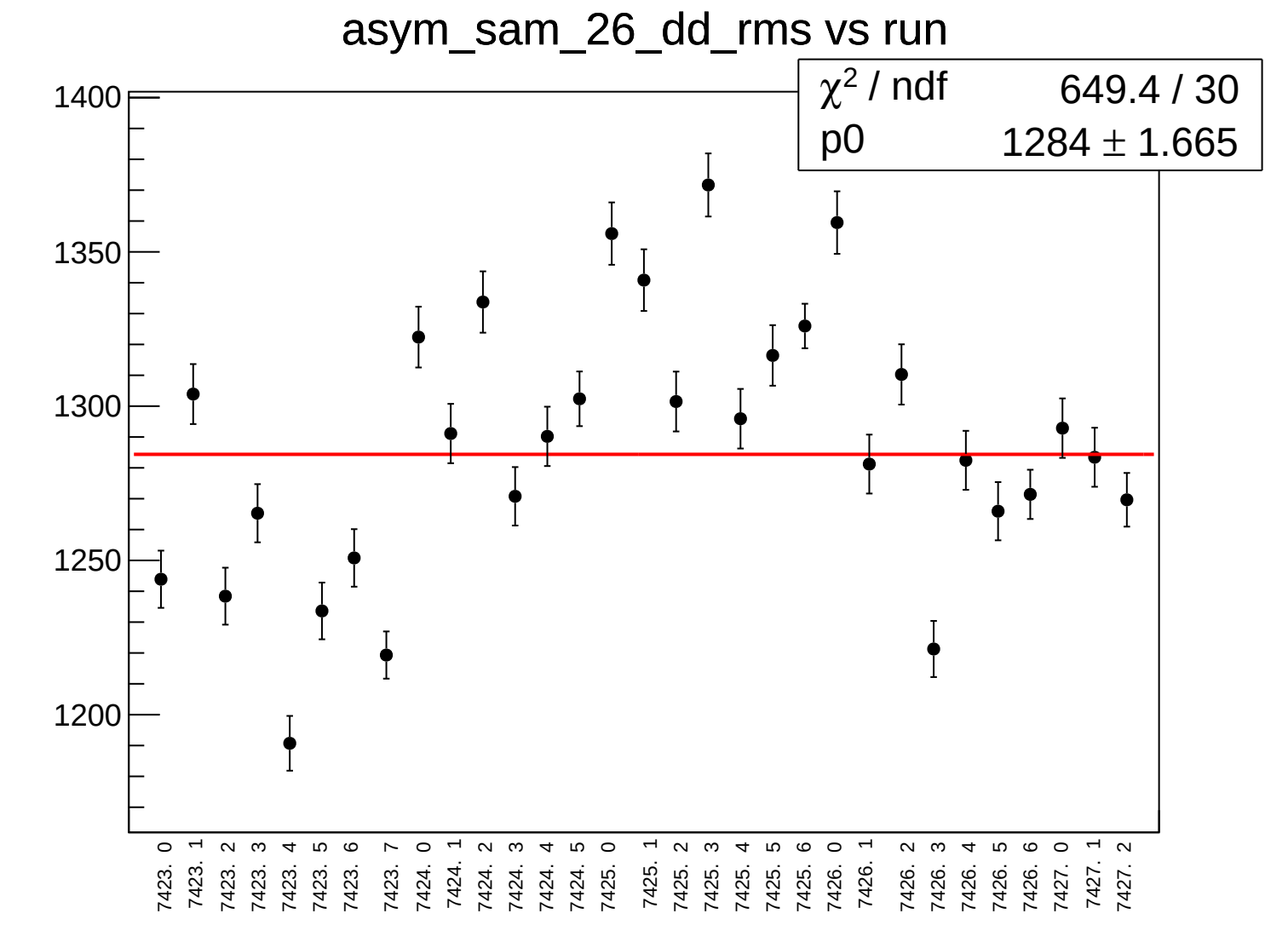

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.68 / 30
p0 2341 ± 2393
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 42.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

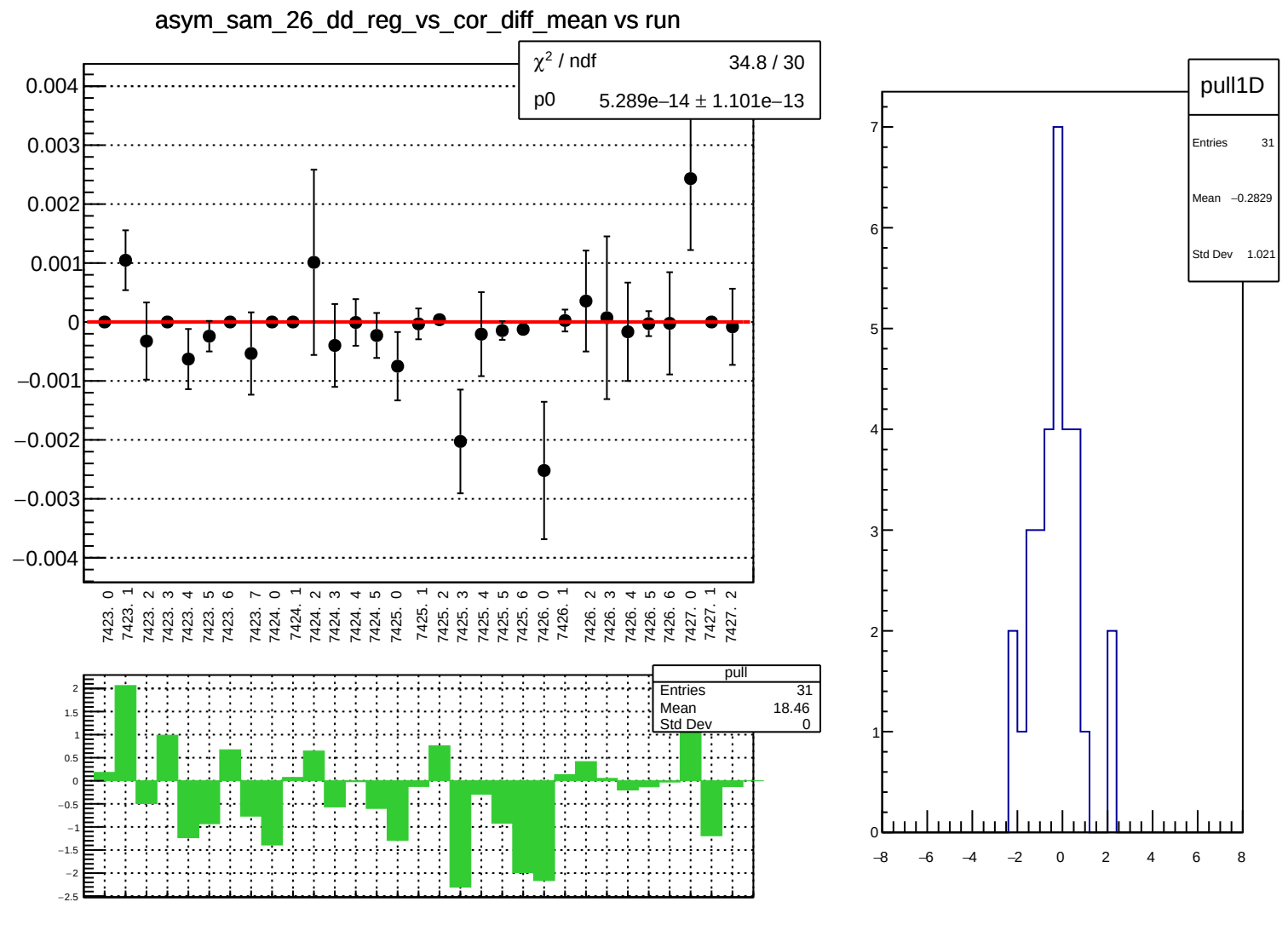

pull1D
Entries 31
Mean −0.03578
Std Dev 1.145
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

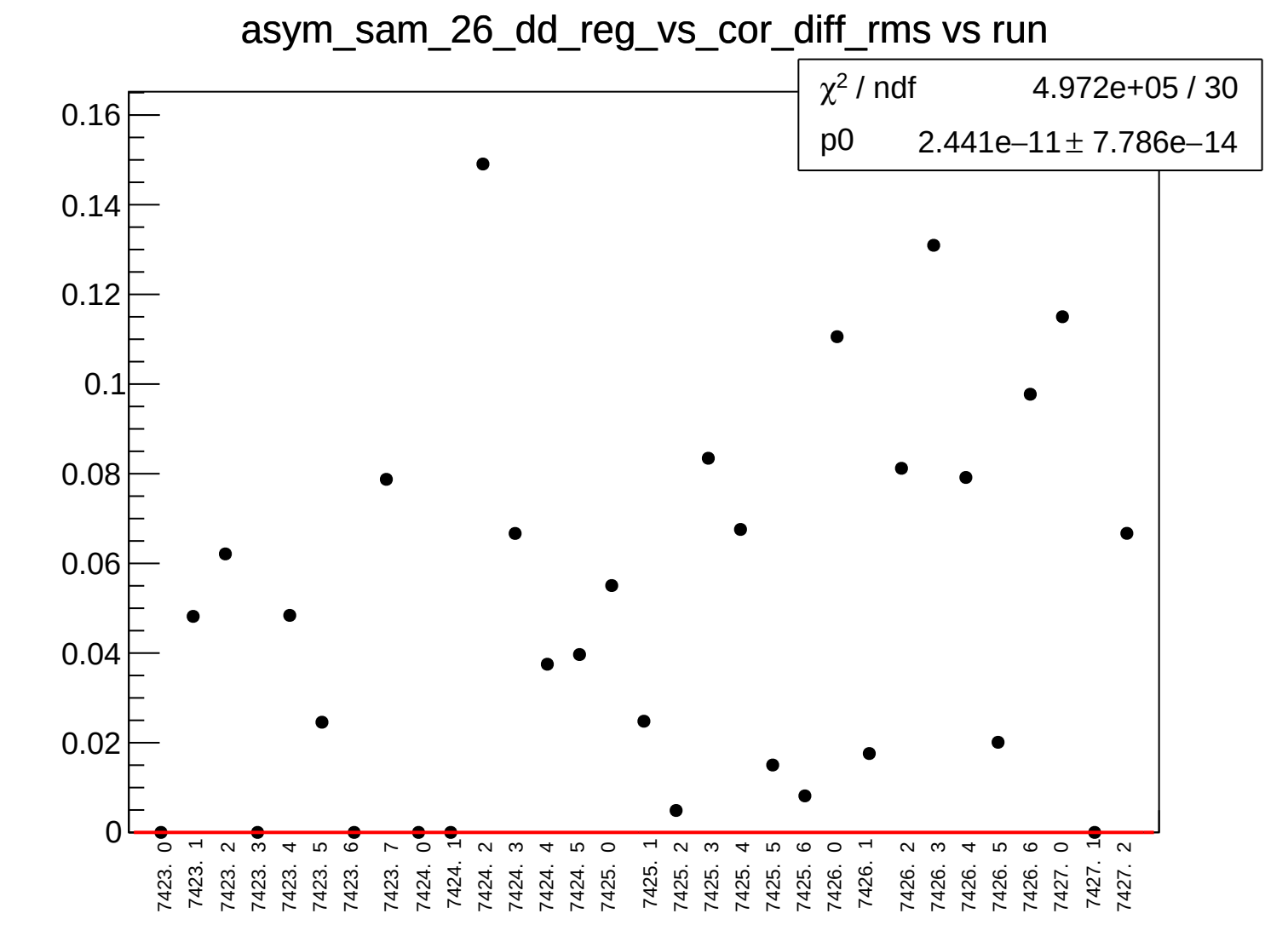

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 650.2 / 30
p0 1305 ± 1.692
1400
1350
1300
1250
1200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

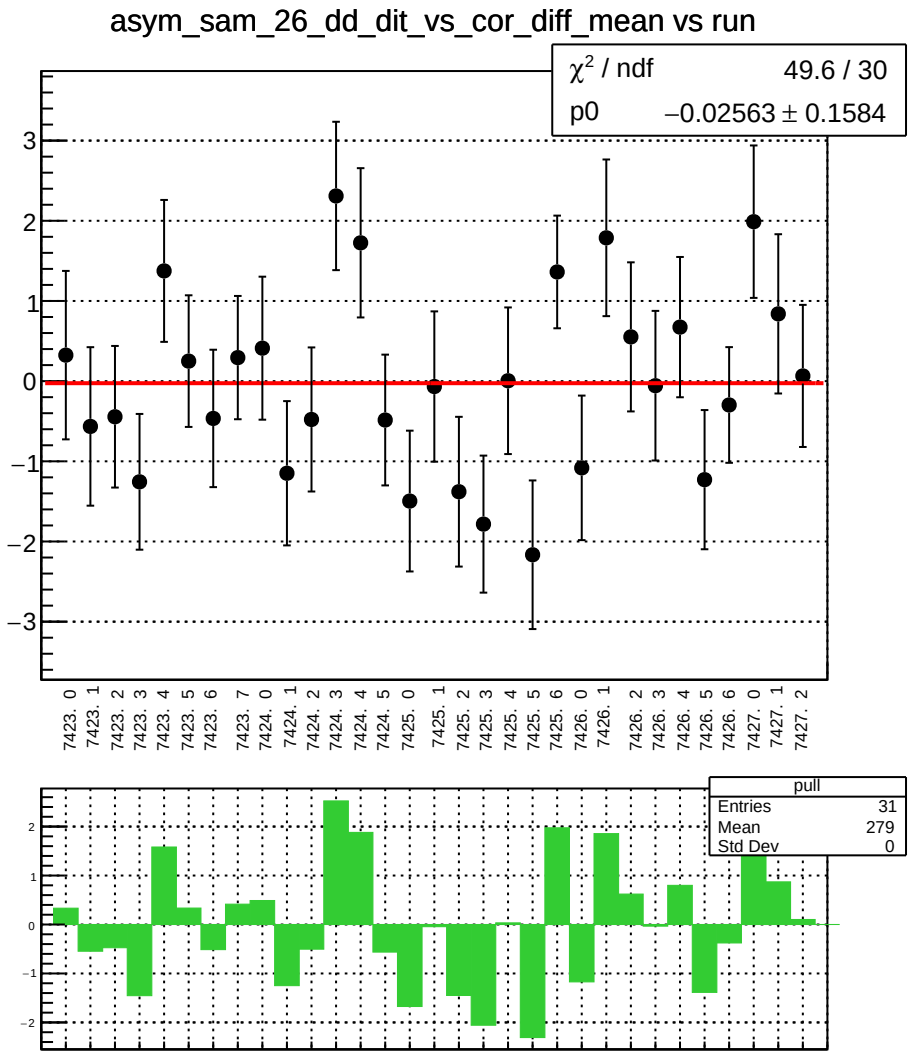

asym_sam_26_dd_mean vs run
χ² / ndf 39.19 / 30
p0 −2183 ± 2355
40000
20000
0
−20000
−40000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 43.33
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

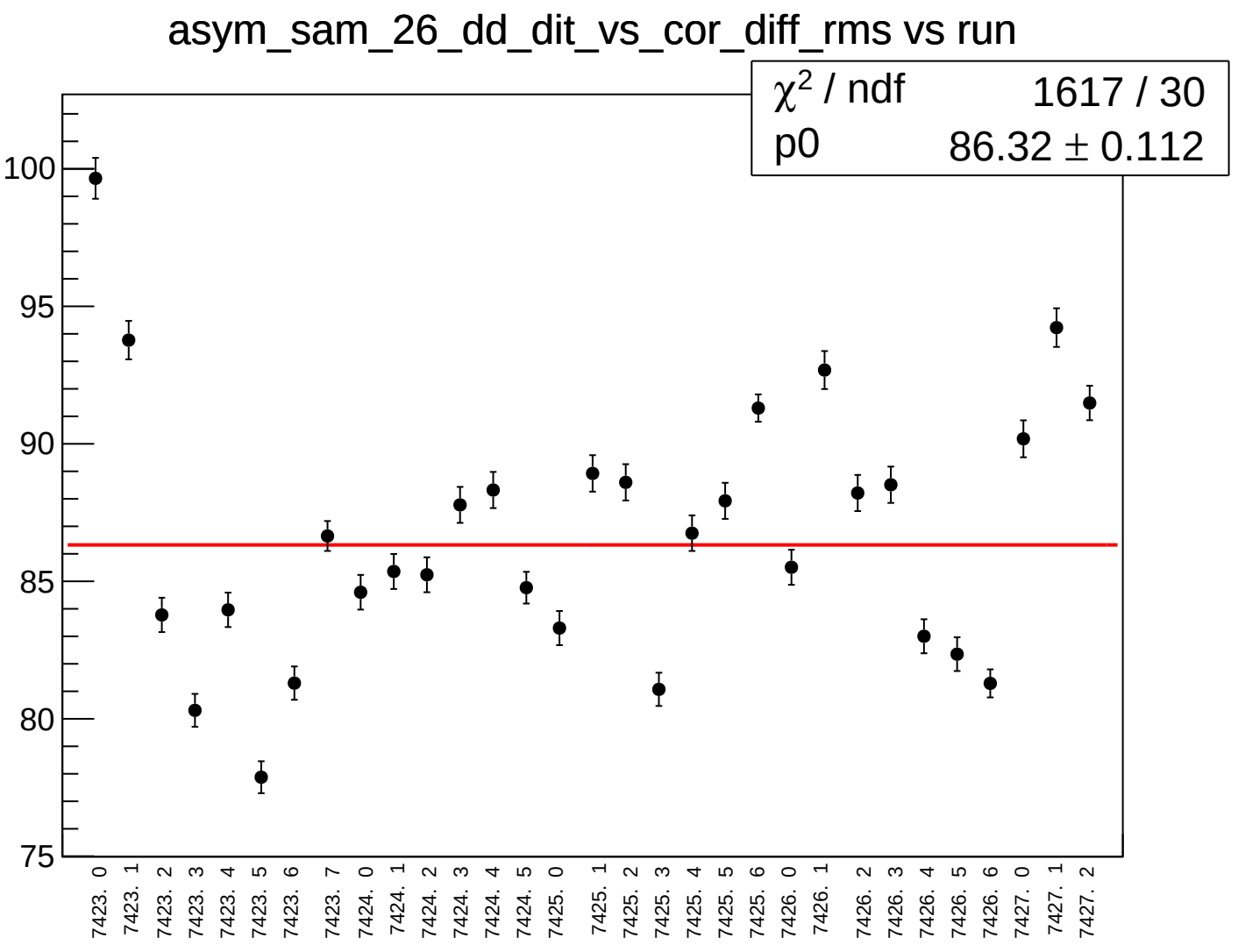

pull1D
Entries 31
Mean 0.03401
Std Dev 1.124
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

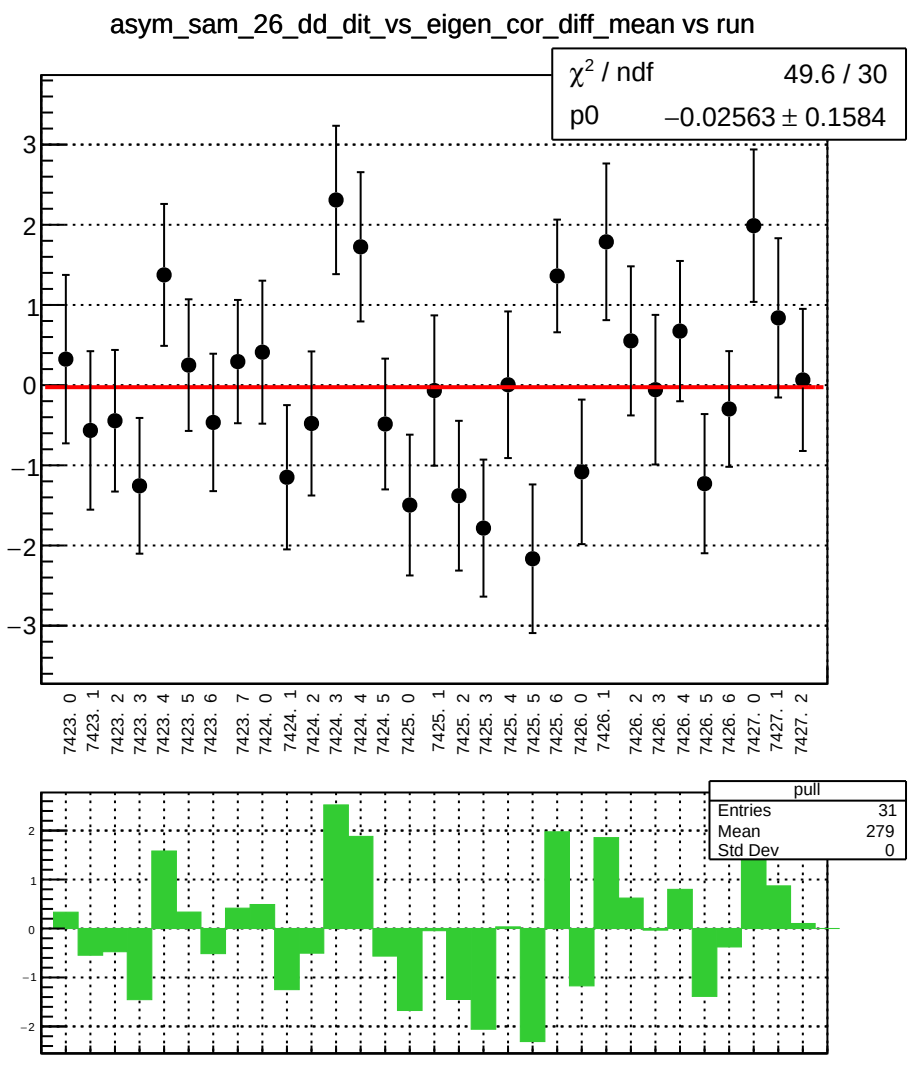

asym_sam_26_dd_rms vs run
χ² / ndf 649.4 / 30
p0 1284 ± 1.665
1400
1350
1300
1250
1200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

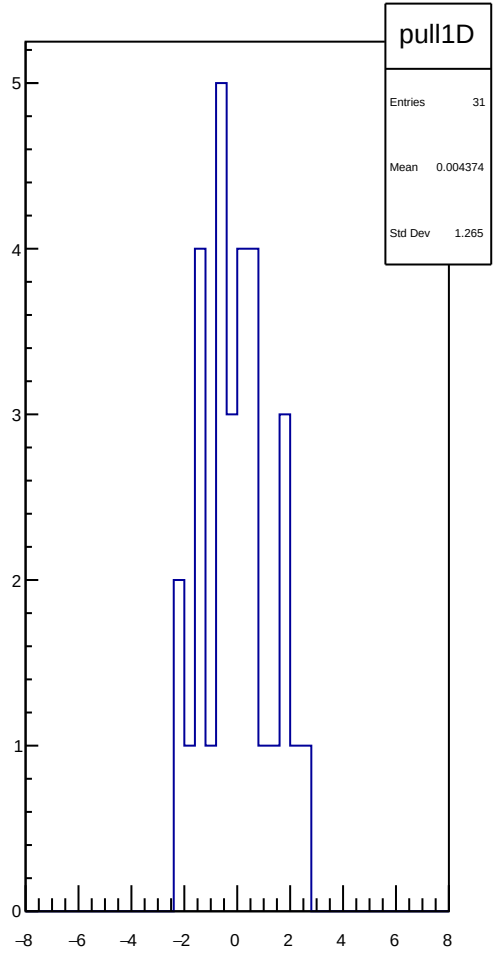

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 34.8 / 30
p0 5.289e−14 ± 1.101e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 18.46
Std Dev 0
pull1D
Entries 31
Mean −0.2829
Std Dev 1.021

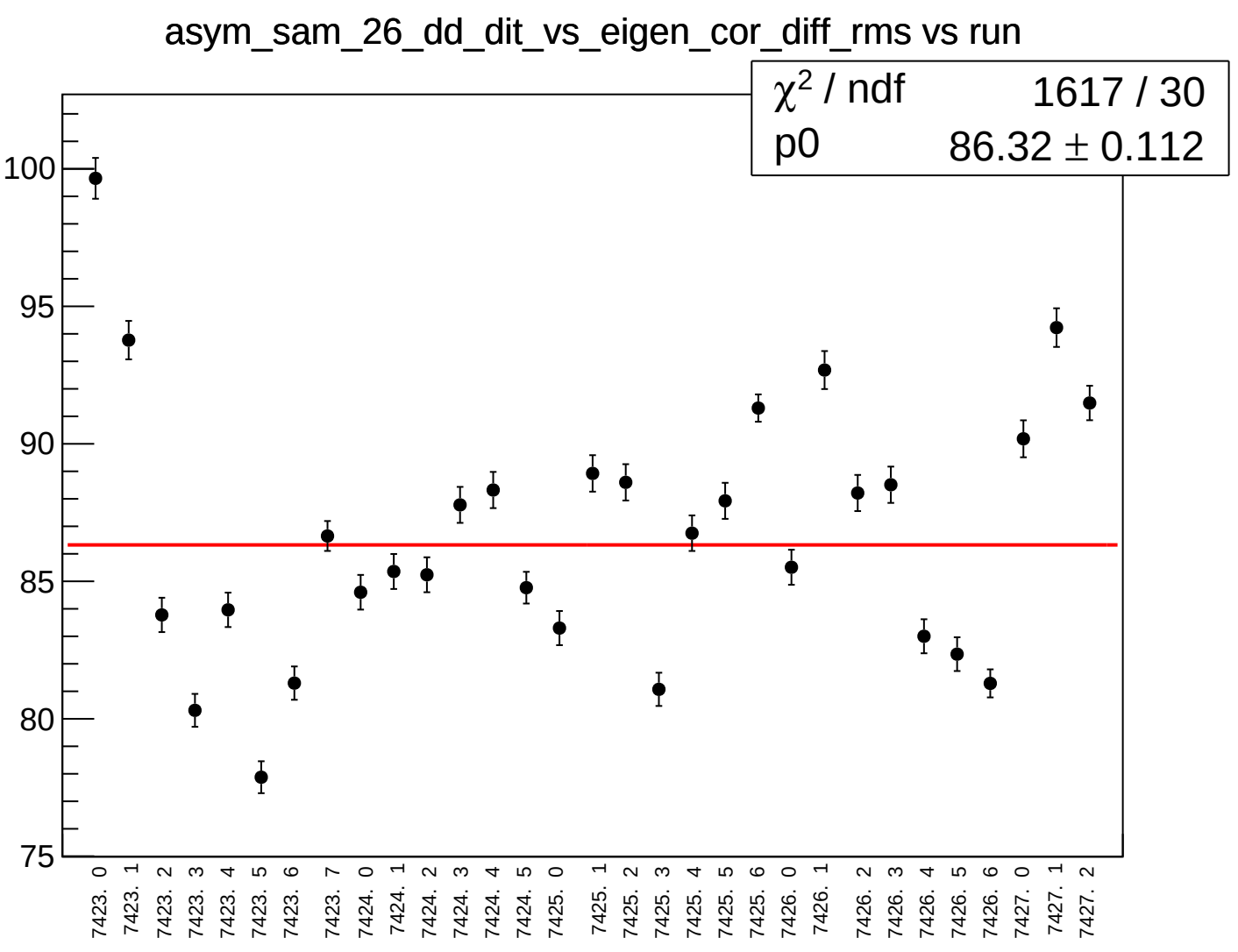

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.972e+05 / 30
p0 2.441e−11 ± 7.786e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

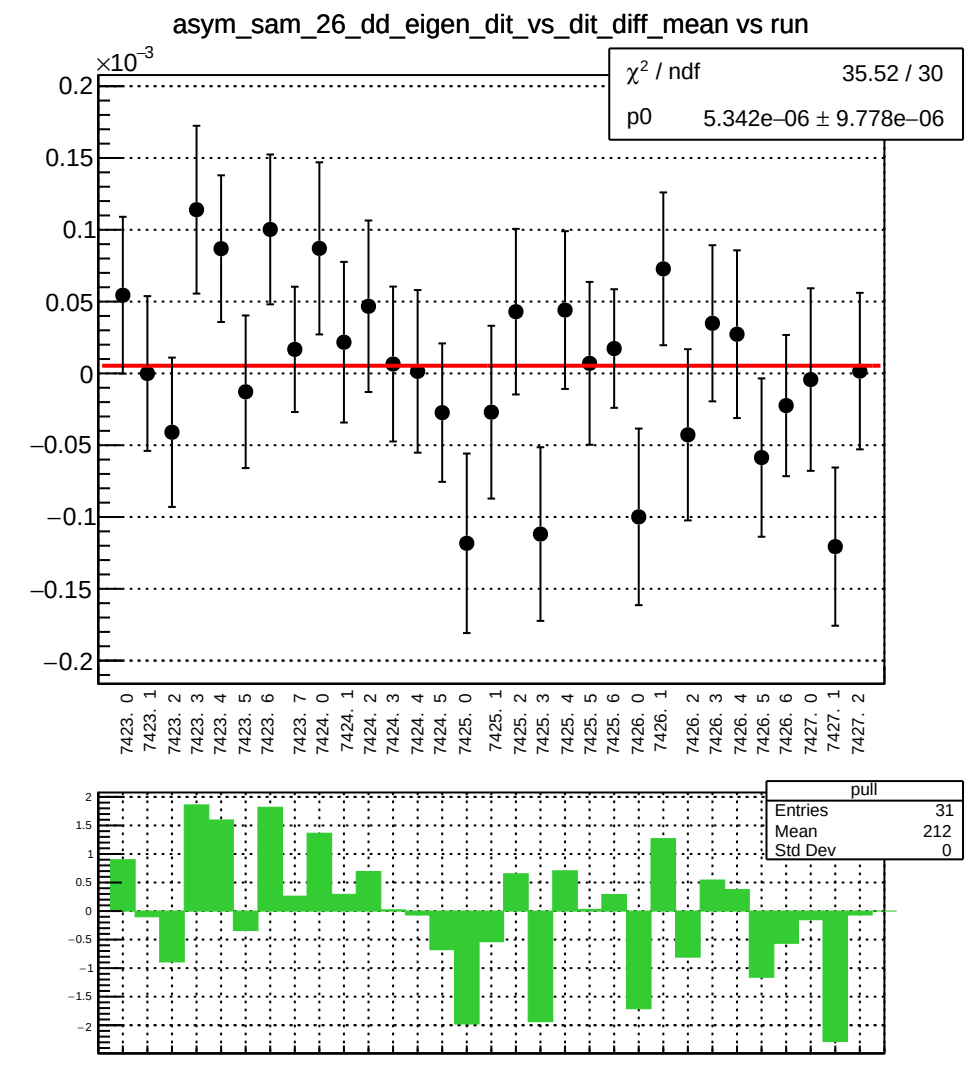

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 49.6 / 30
p0 −0.02563 ± 0.1584
pull
Entries 31
Mean 279
Std Dev 0
pull1D
Entries 31
Mean 0.004374
Std Dev 1.265

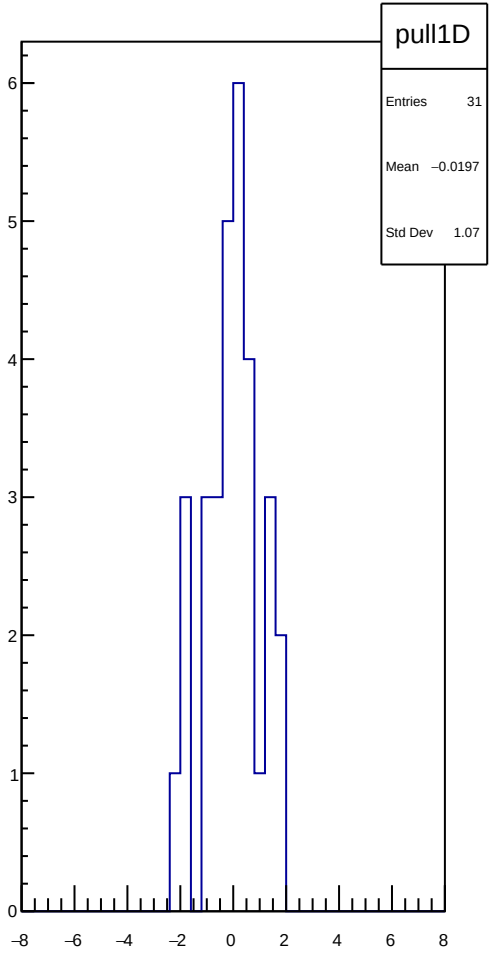

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1617 / 30
p0 86.32 ± 0.112
100
95
90
85
80
75
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

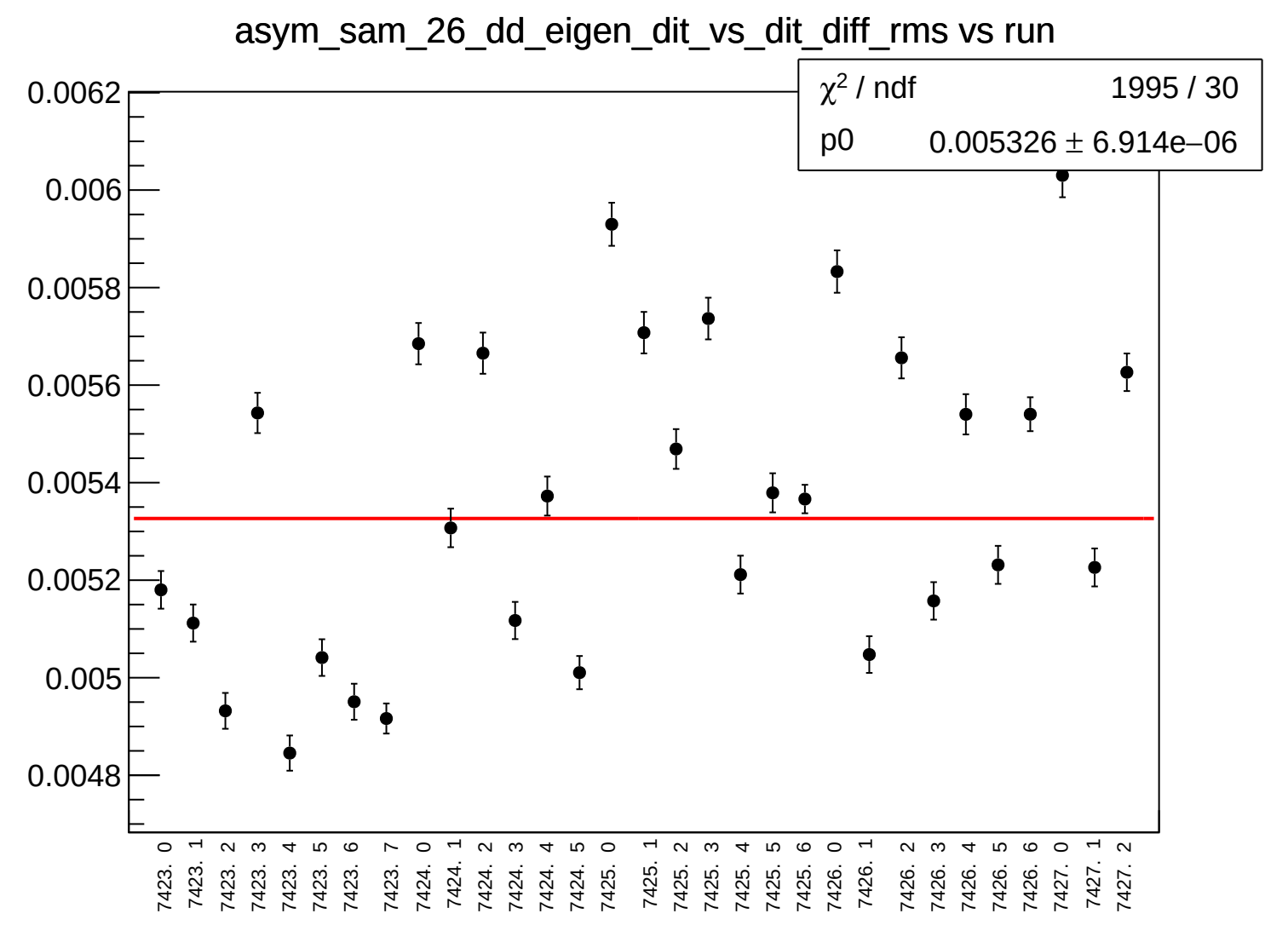

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.6 / 30
p0 −0.02563 ± 0.1584
3
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 279
Std Dev 0
2
1
0
−1
−2

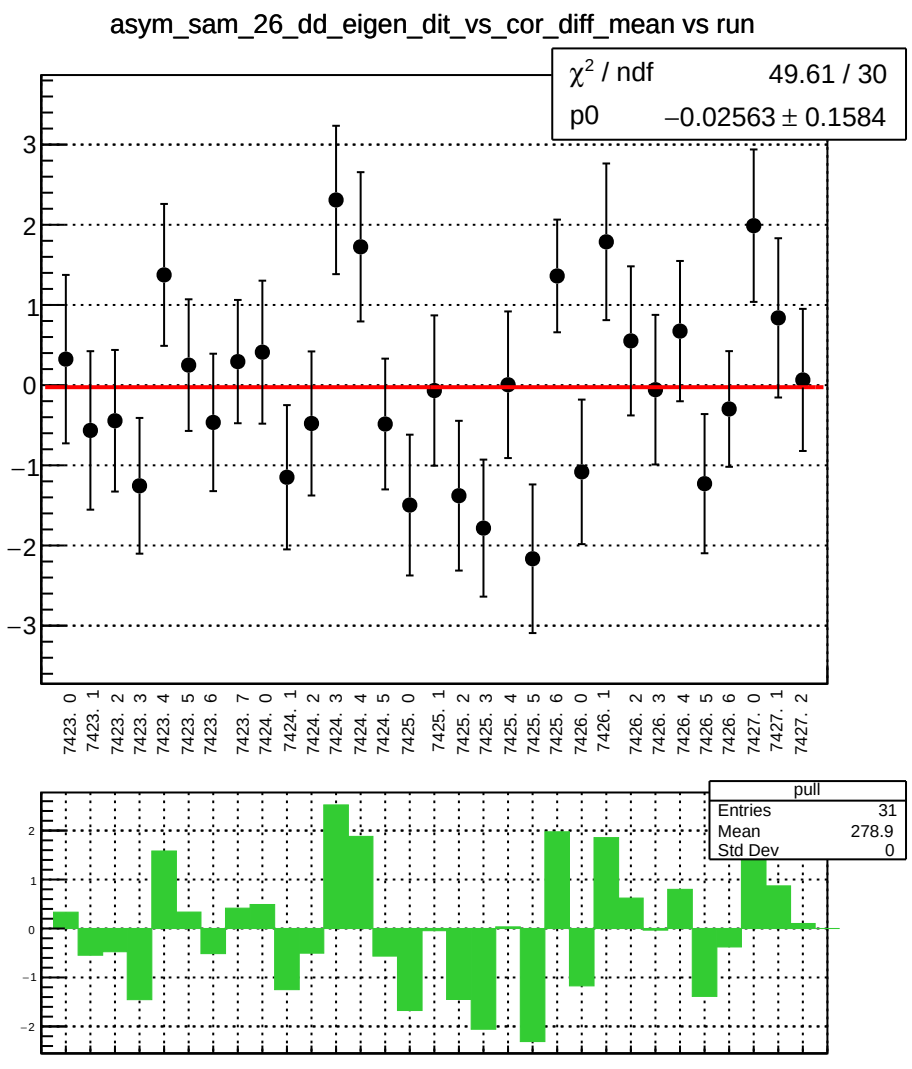

pull1D
Entries 31
Mean 0.004374
Std Dev 1.265
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

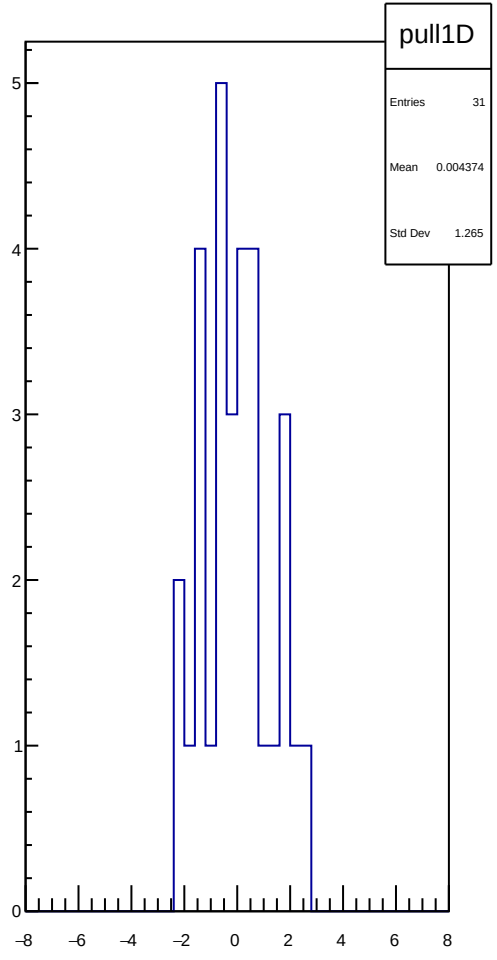

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1617 / 30
p0 86.32 ± 0.112
100
95
90
85
80
75
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

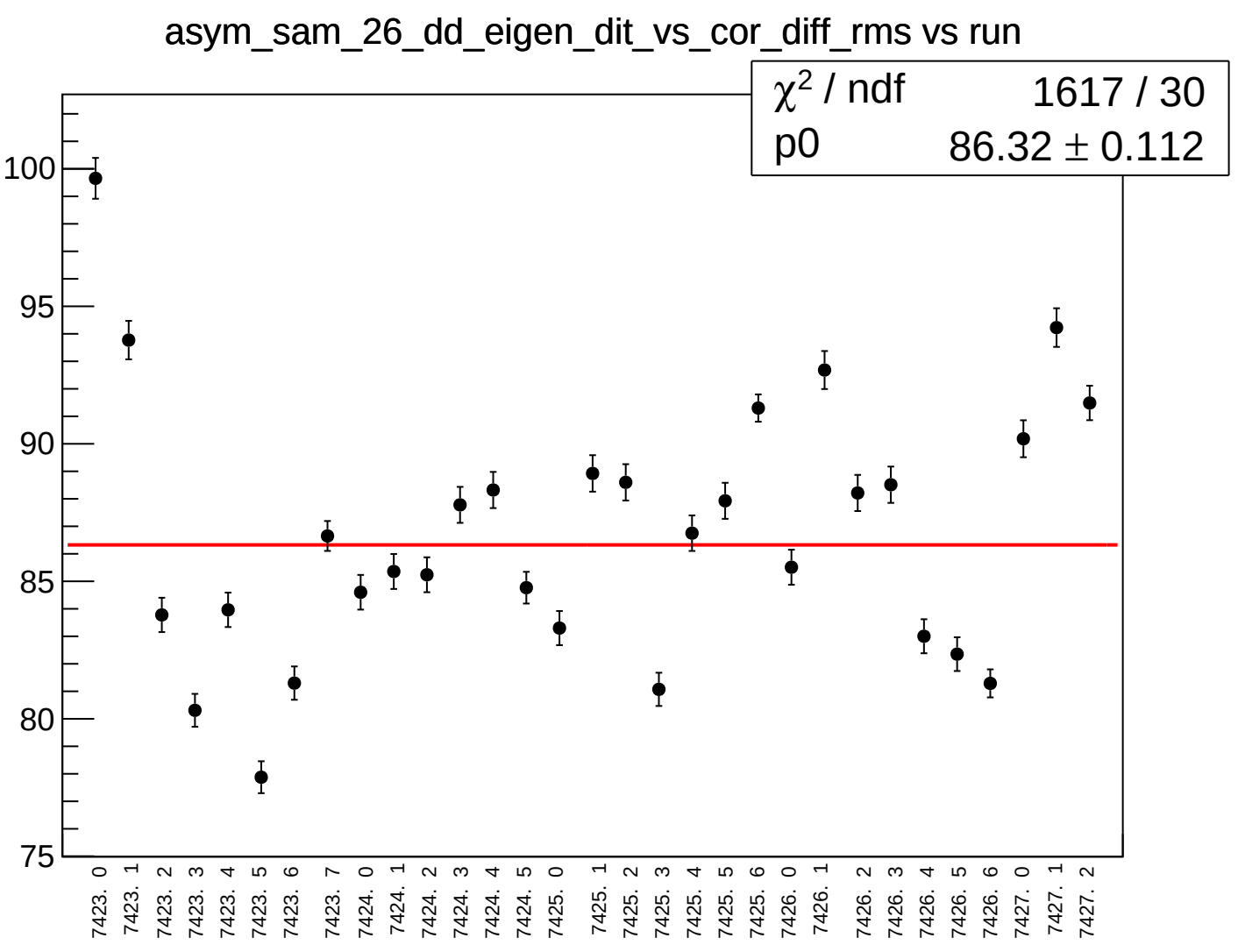

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.52 / 30
p0 5.342e−06 ± 9.778e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 212
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

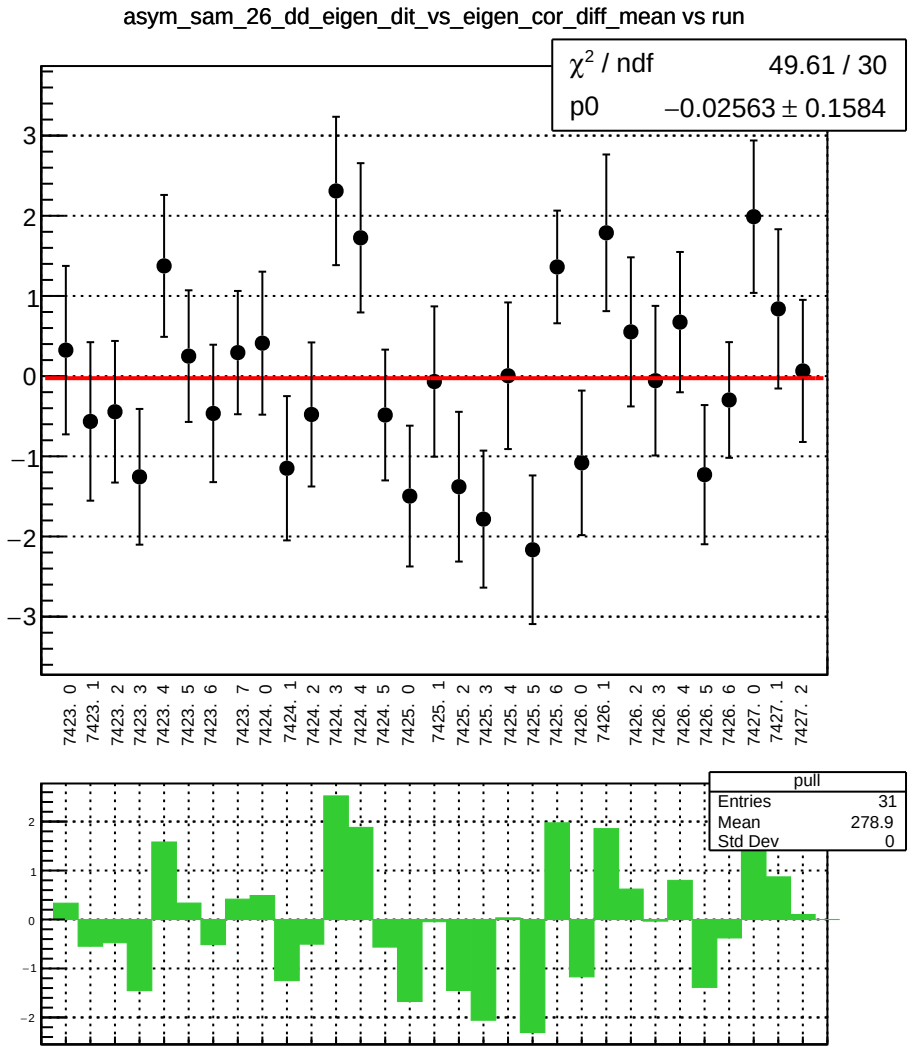

pull1D
Entries 31
Mean −0.0197
Std Dev 1.07
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

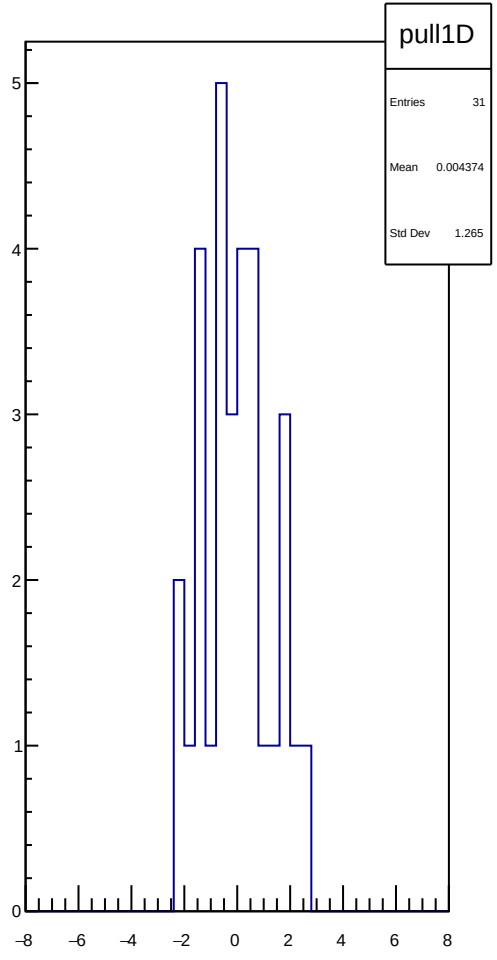

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1995 / 30
p0 0.005326 ± 6.914e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

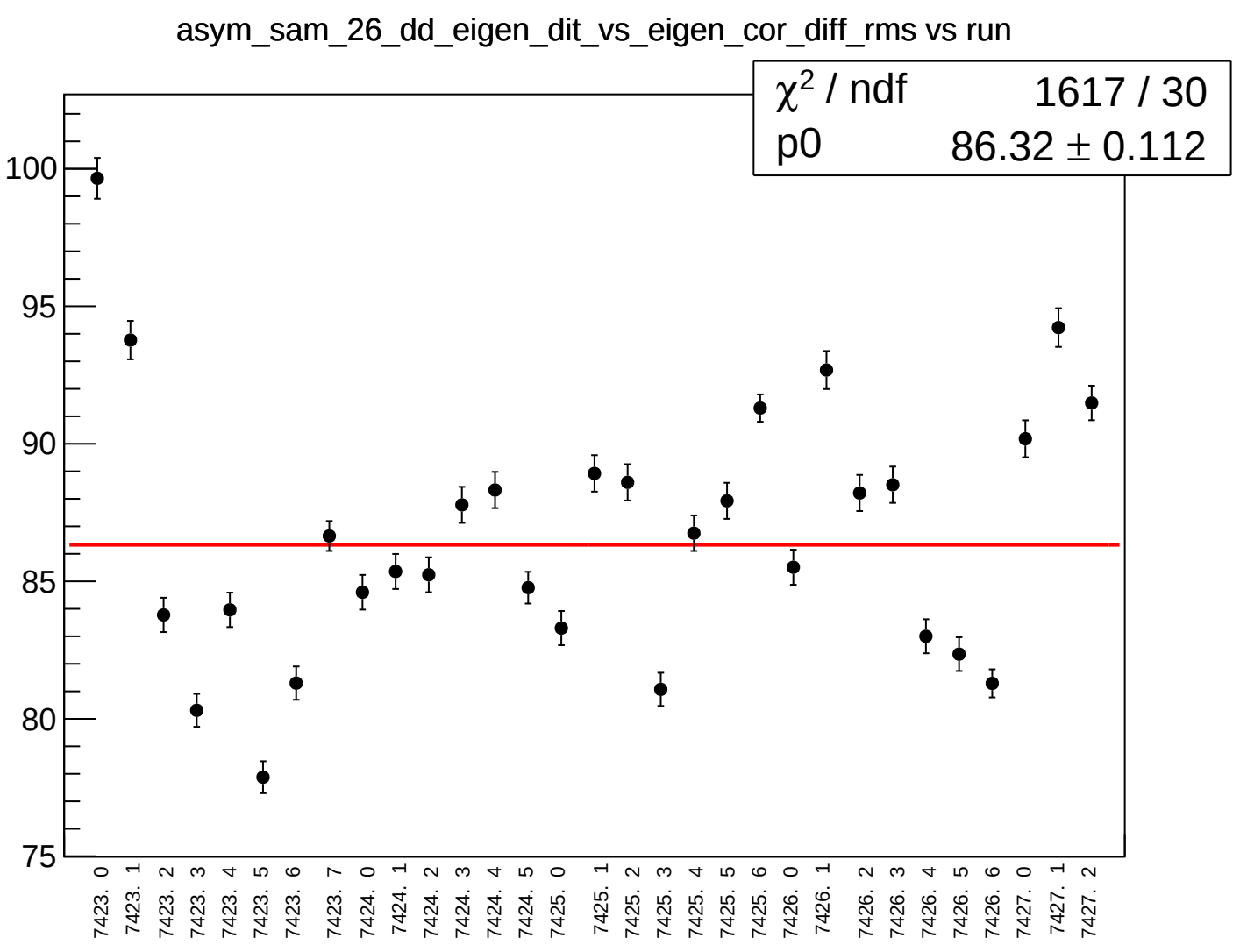

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.61 / 30
p0 −0.02563 ± 0.1584
3
2
1
0
−1
−2
−3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 278.9
Std Dev 0
2
1
0
−1
−2

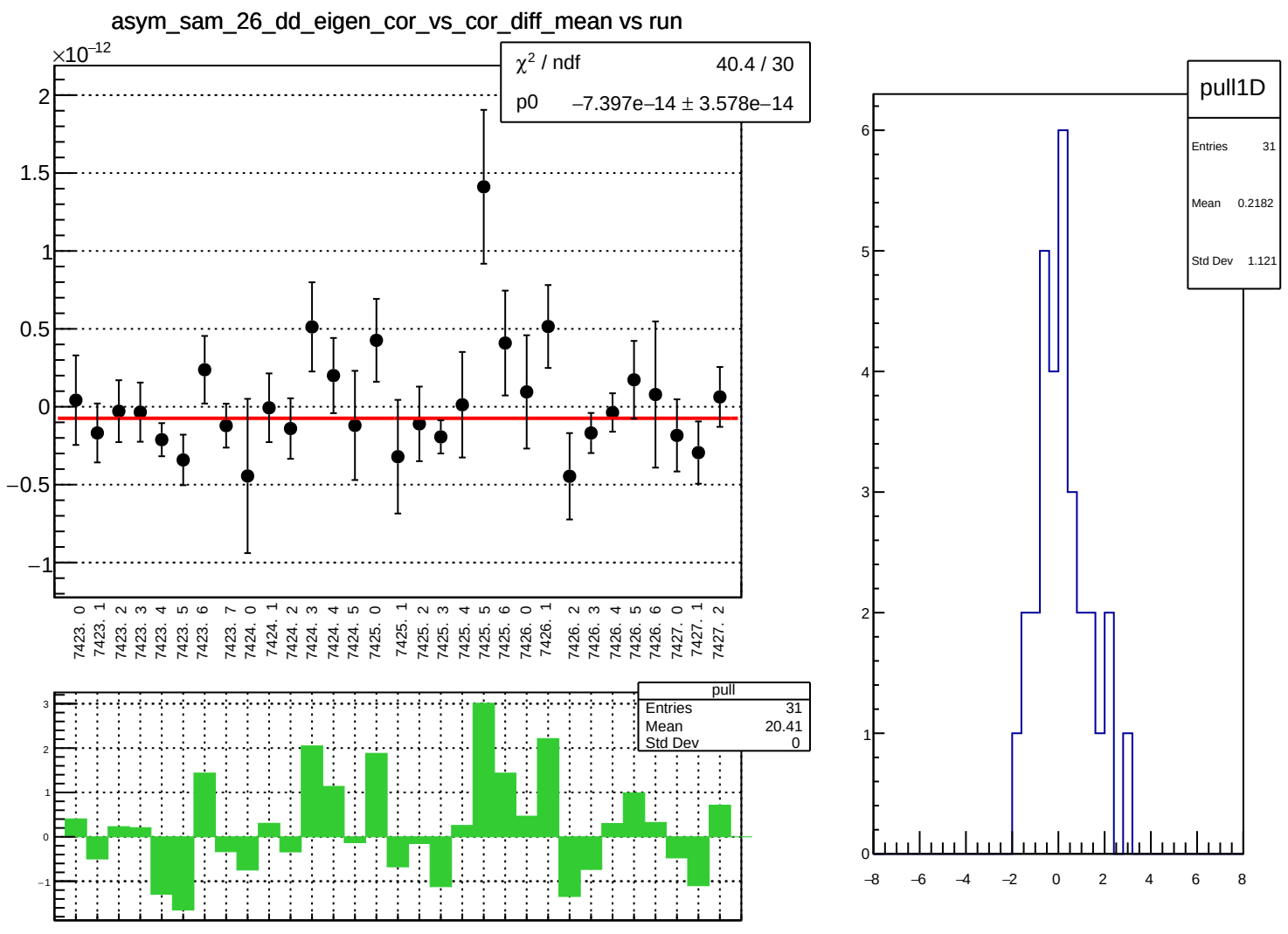

pull1D
Entries 31
Mean 0.004374
Std Dev 1.265
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

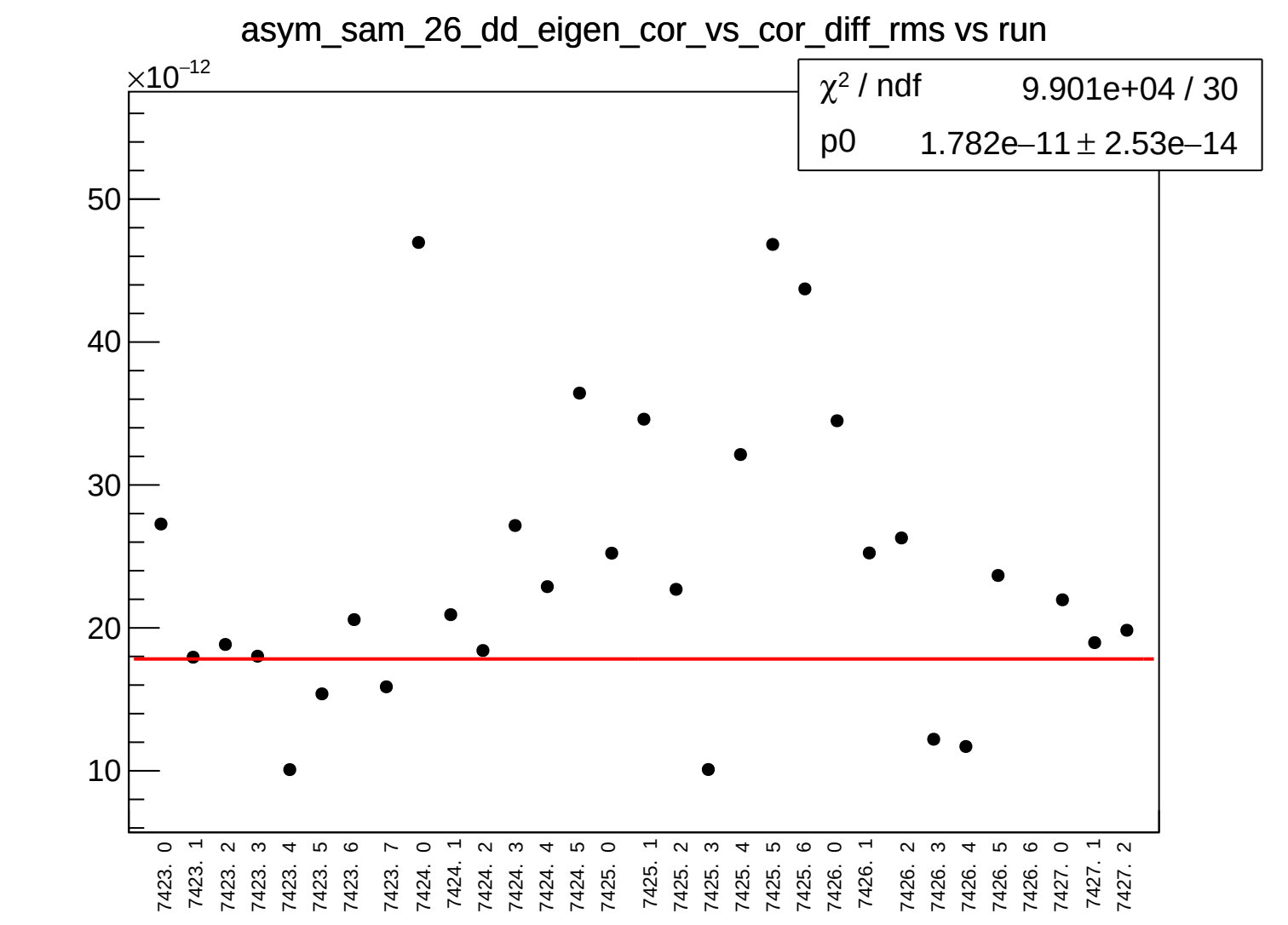

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1617 / 30
p0 86.32 ± 0.112
100
95
90
85
80
75
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

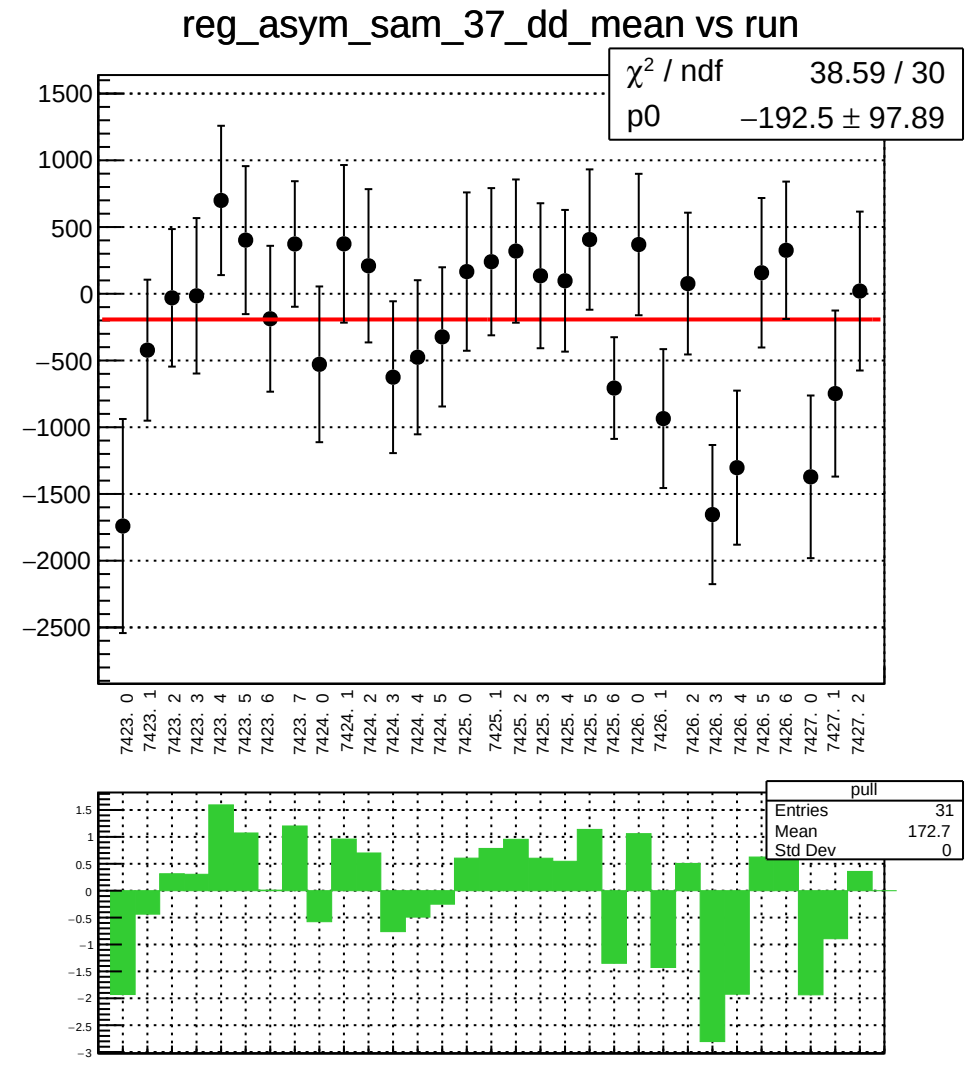

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.61 / 30
p0 −0.02563 ± 0.1584
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 278.9
Std Dev 0

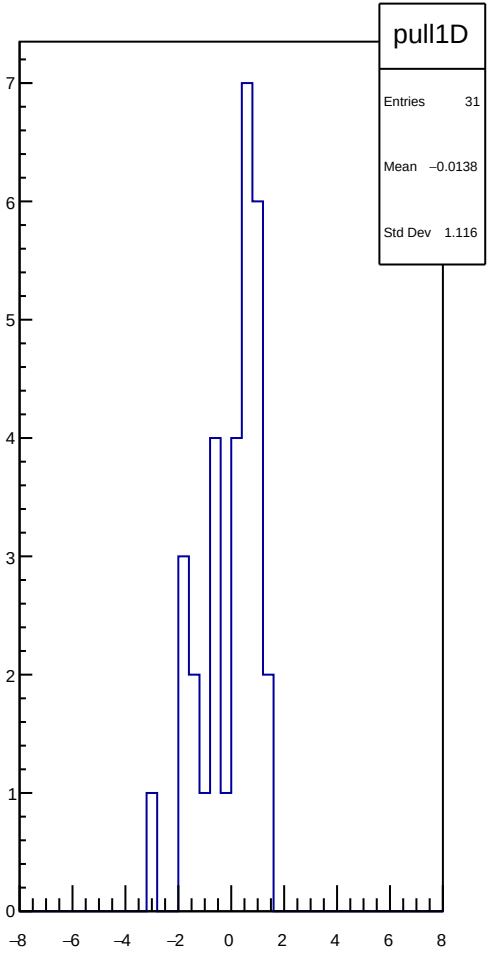

pull1D
Entries 31
Mean 0.004374
Std Dev 1.265

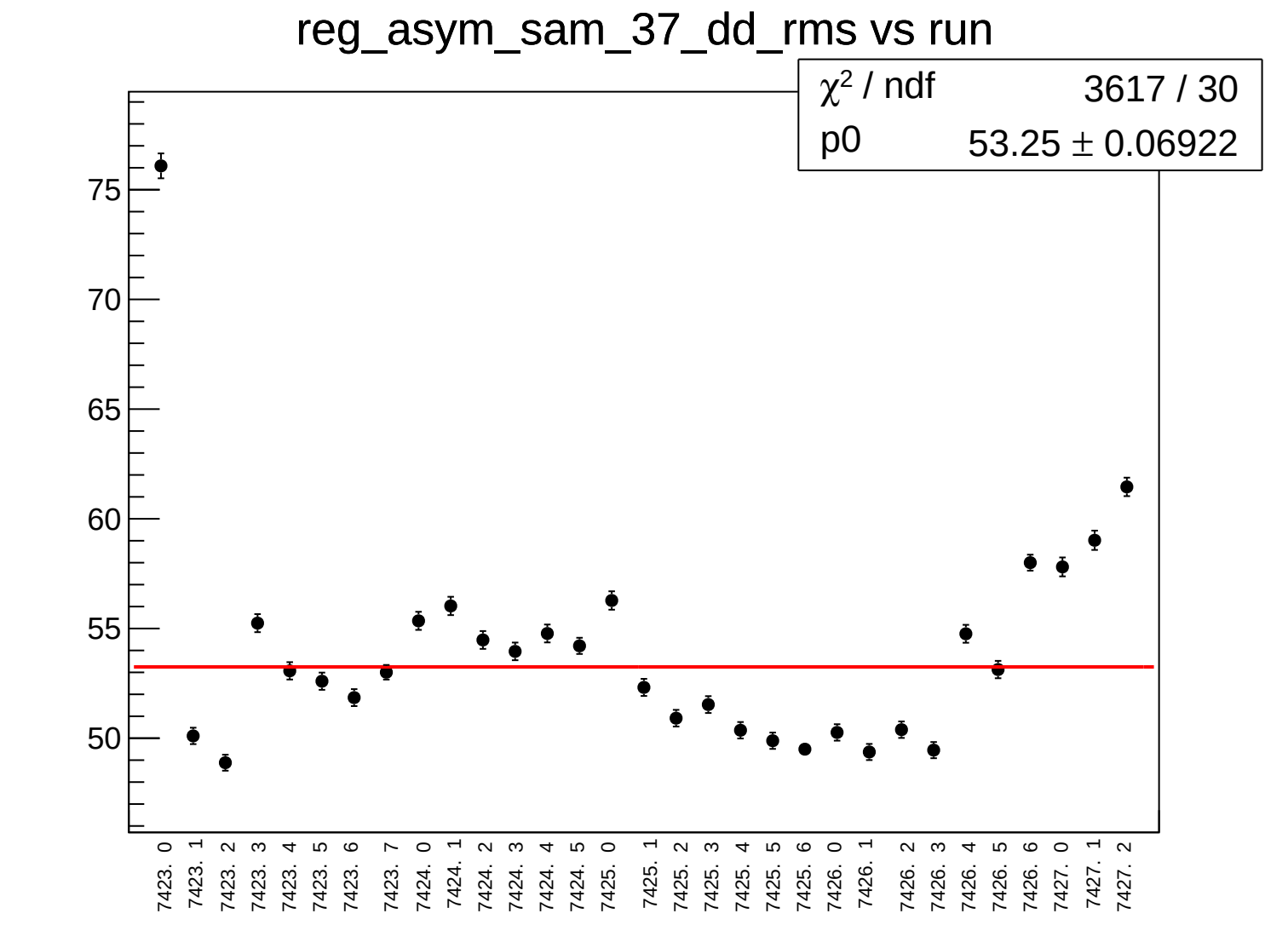

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1617 / 30
p0 86.32 ± 0.112
100
95
90
85
80
75
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

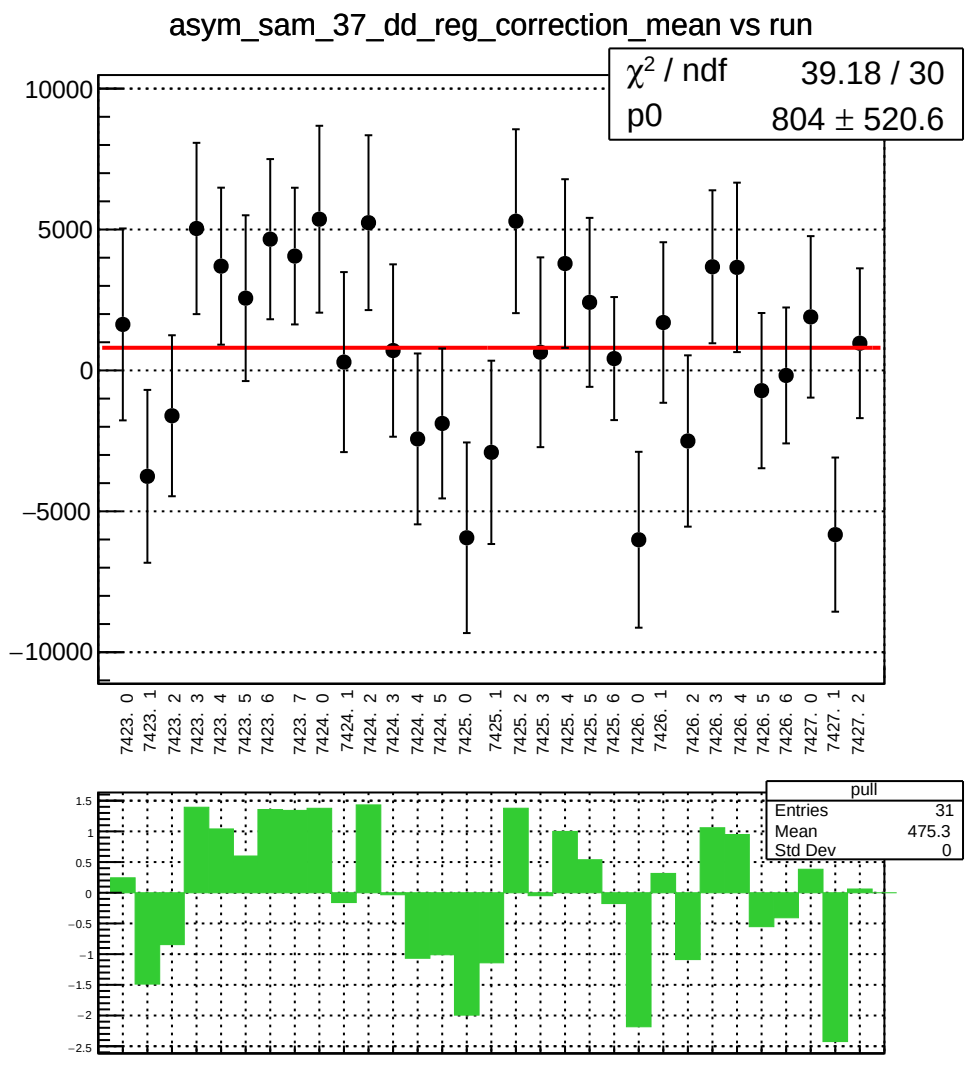

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.4 / 30
p0 −7.397e−14 ± 3.578e−14
2
1.5
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 20.41
Std Dev 0
pull1D
Entries 31
Mean 0.2182
Std Dev 1.121
−8
−6
−4
−2
0
2
4
6
8

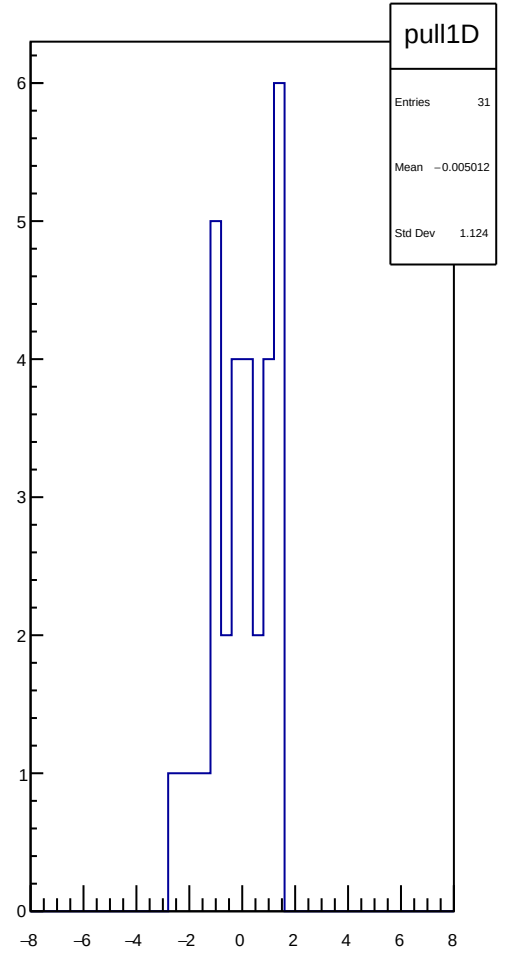

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.901e+04 / 30
p0 1.782e−11 ± 2.53e−14
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

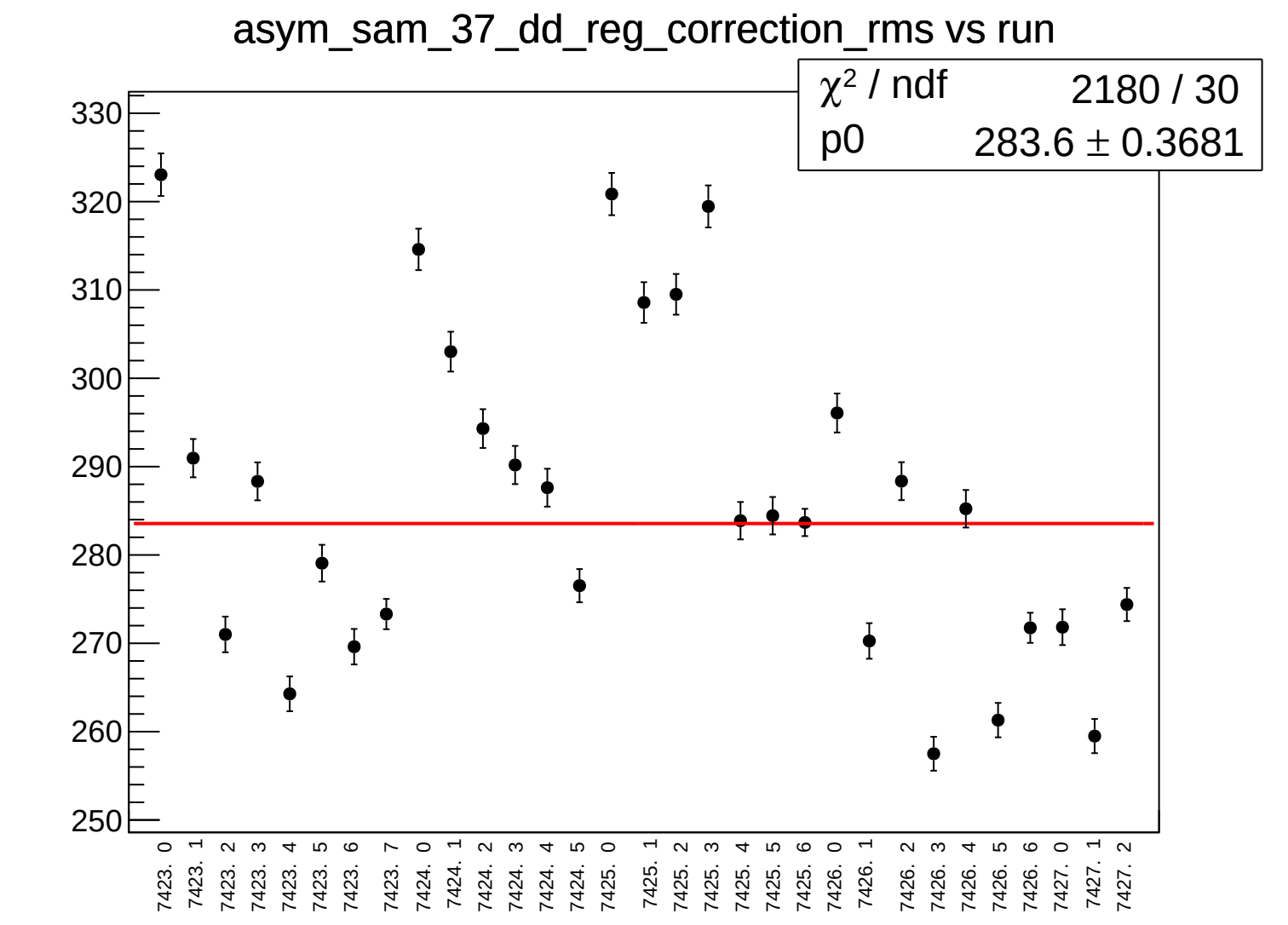

reg_asym_sam_37_dd_mean vs run
χ² / ndf 38.59 / 30
p0 −192.5 ± 97.89
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 172.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

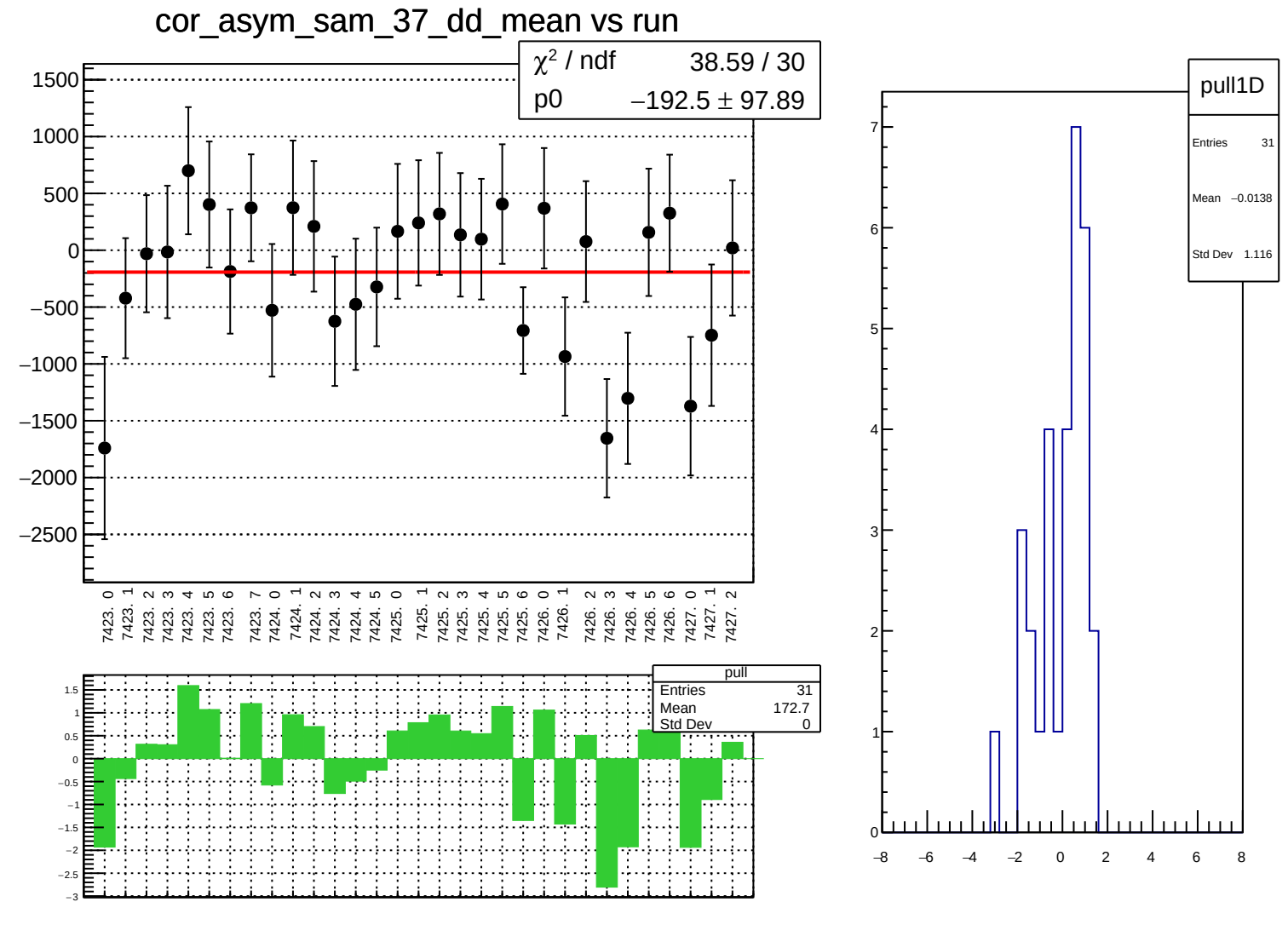

pull1D
Entries 31
Mean −0.0138
Std Dev 1.116
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

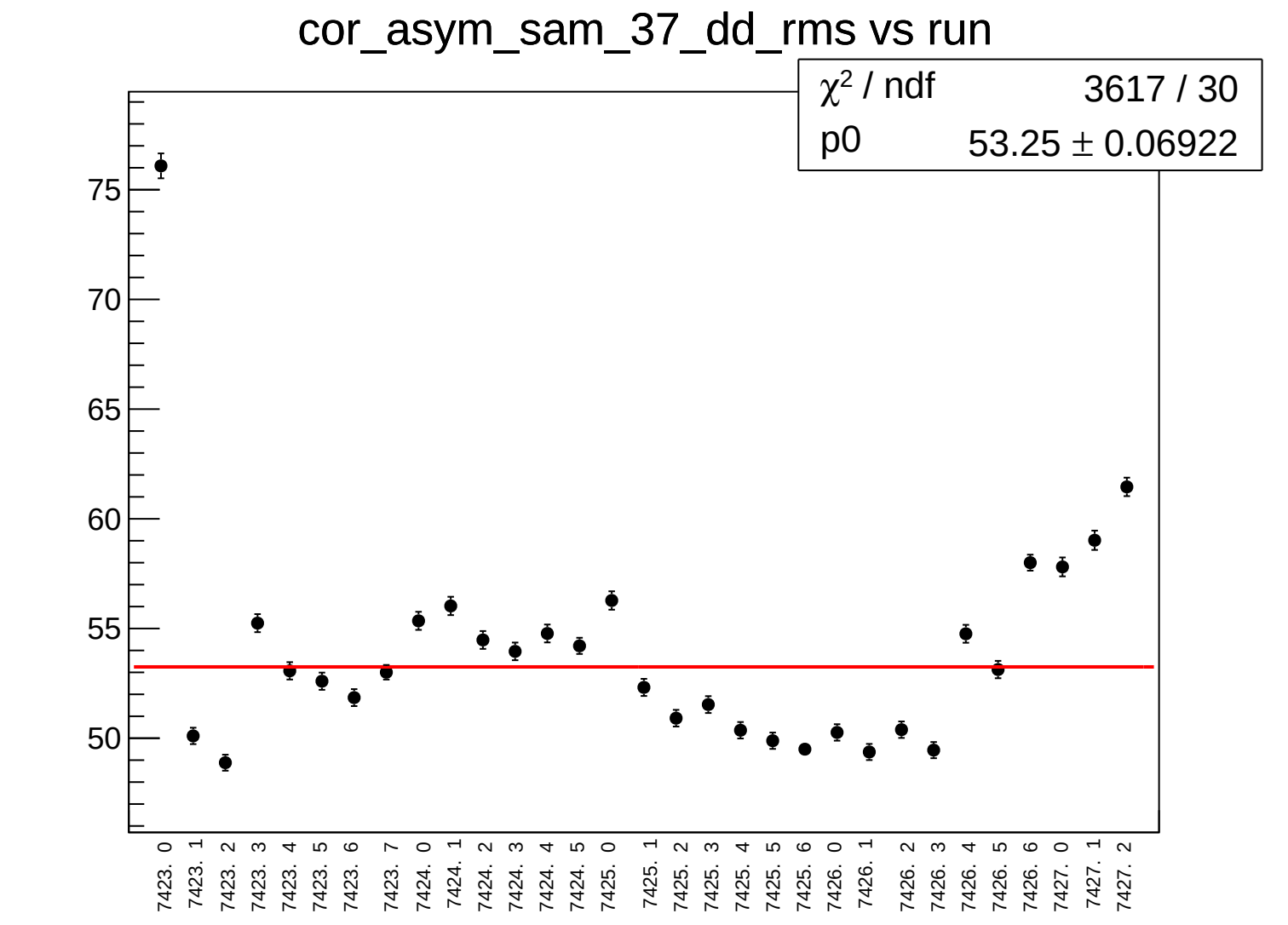

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 3617 / 30
p0 53.25 ± 0.06922
75
70
65
60
55
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

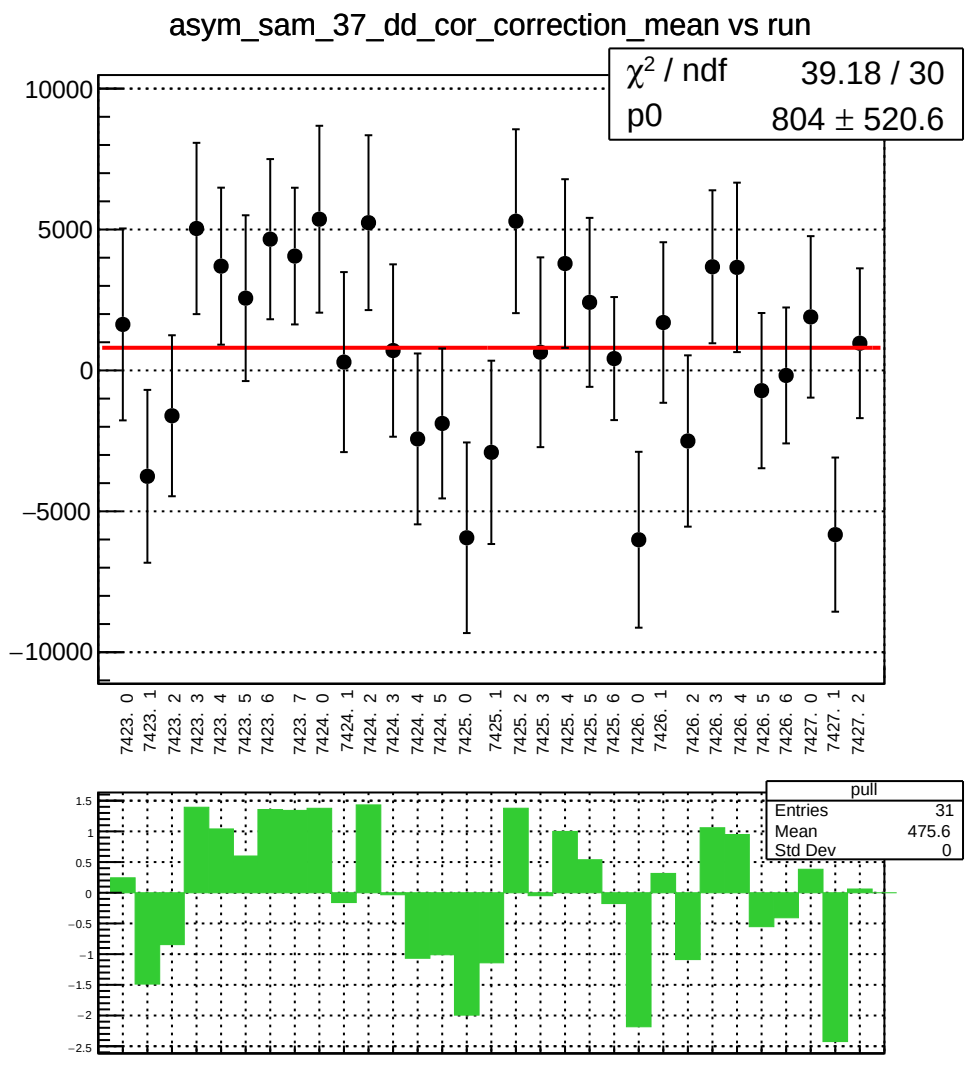

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 39.18 / 30
p0 804 ± 520.6
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 475.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

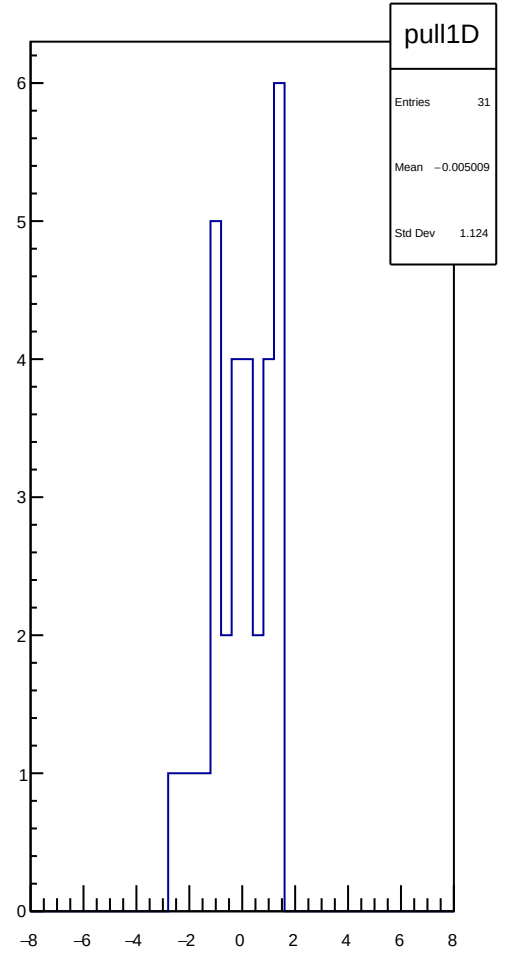

pull1D
Entries 31
Mean −0.005012
Std Dev 1.124
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

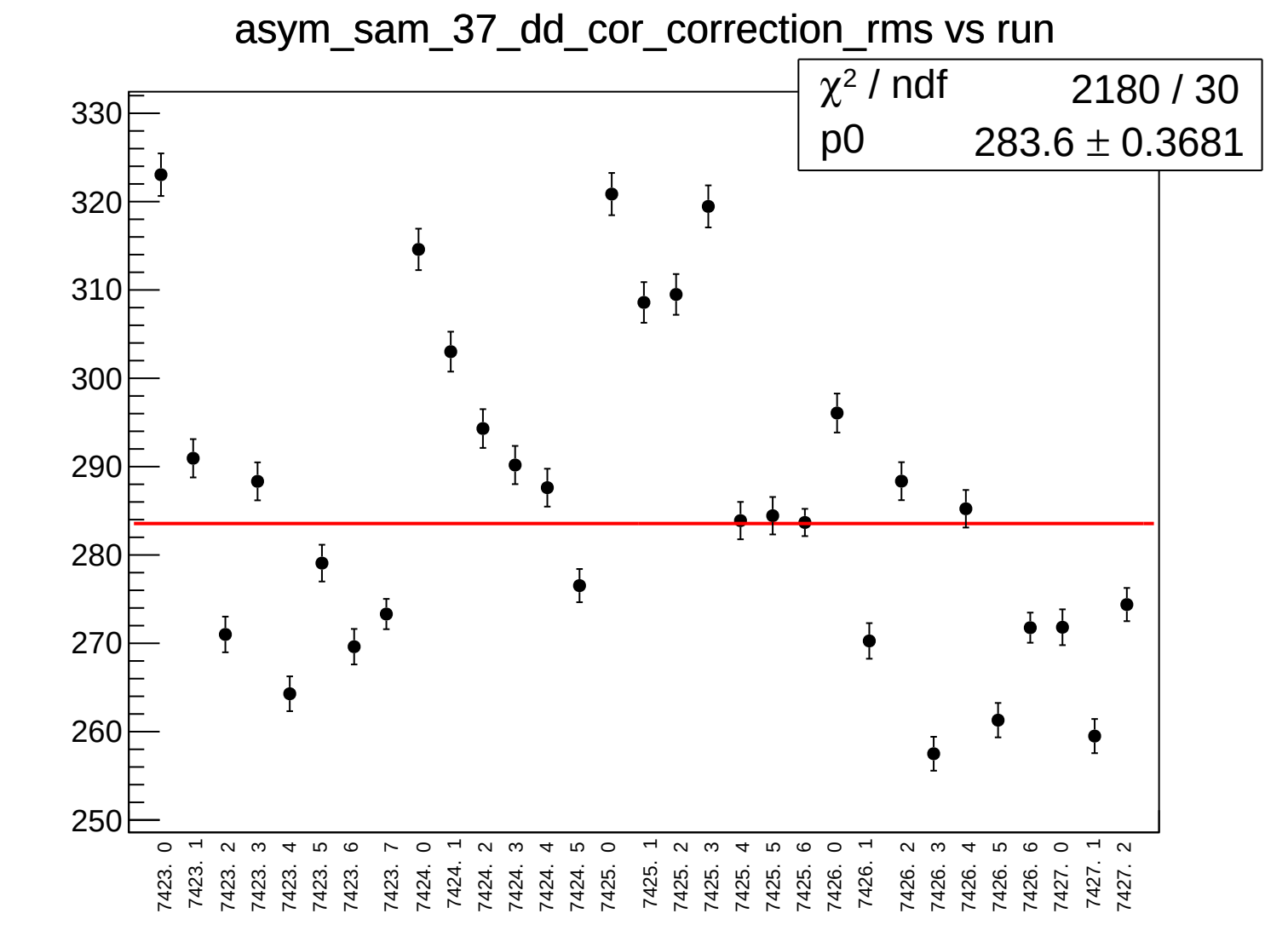

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2180 / 30
p0 283.6 ± 0.3681
330
320
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

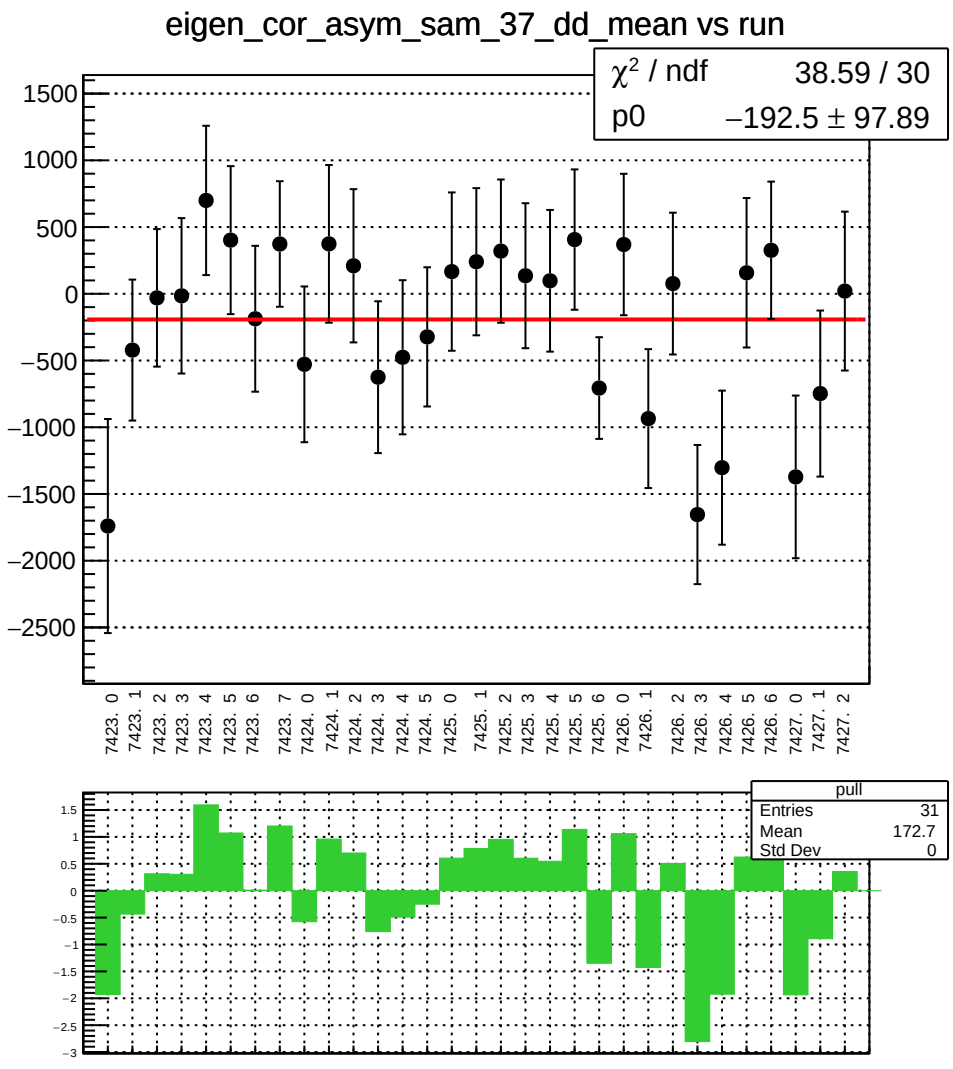

cor_asym_sam_37_dd_mean vs run
χ² / ndf 38.59 / 30
p0 −192.5 ± 97.89
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 172.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 31
Mean −0.0138
Std Dev 1.116
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

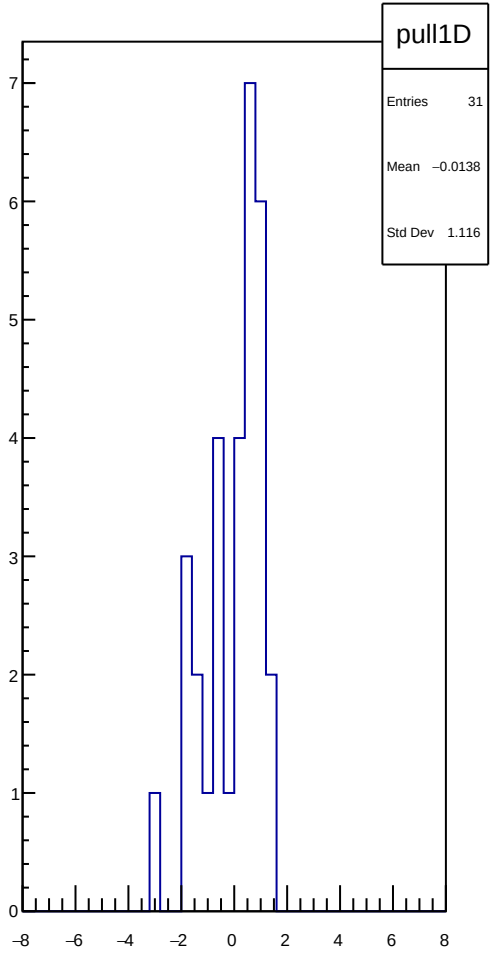

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 3617 / 30
p0 53.25 ± 0.06922
75
70
65
60
55
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

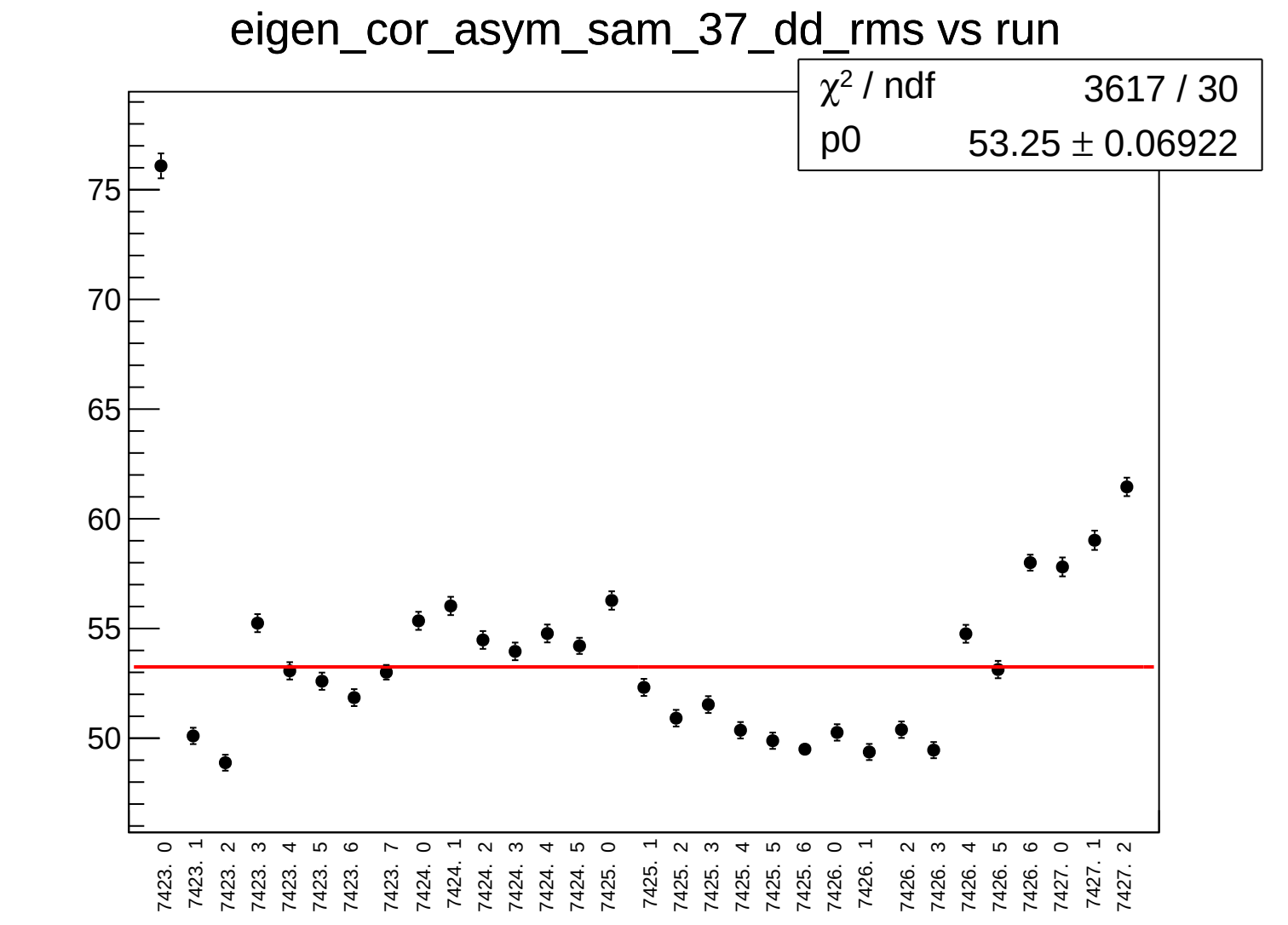

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 39.18 / 30
p0 804 ± 520.6
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 475.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

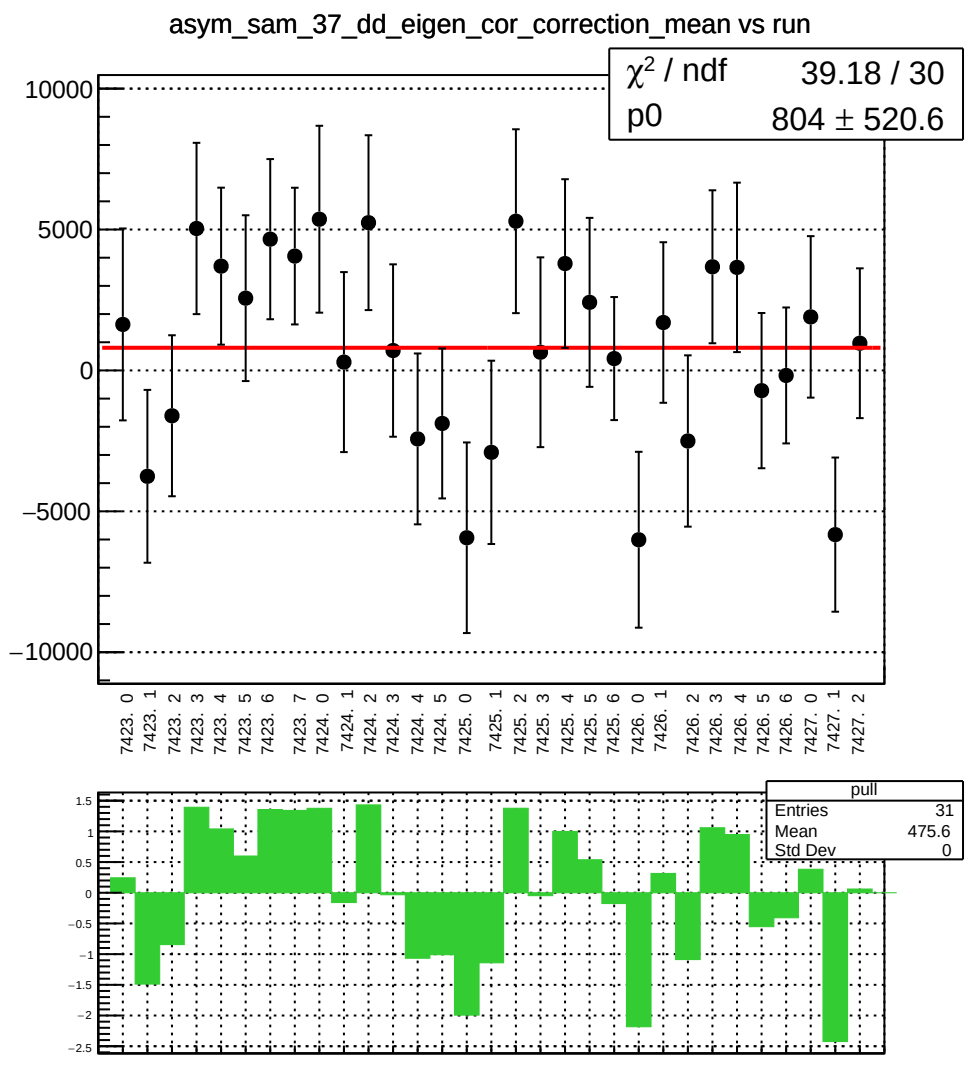

pull1D
Entries 31
Mean −0.005009
Std Dev 1.124
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

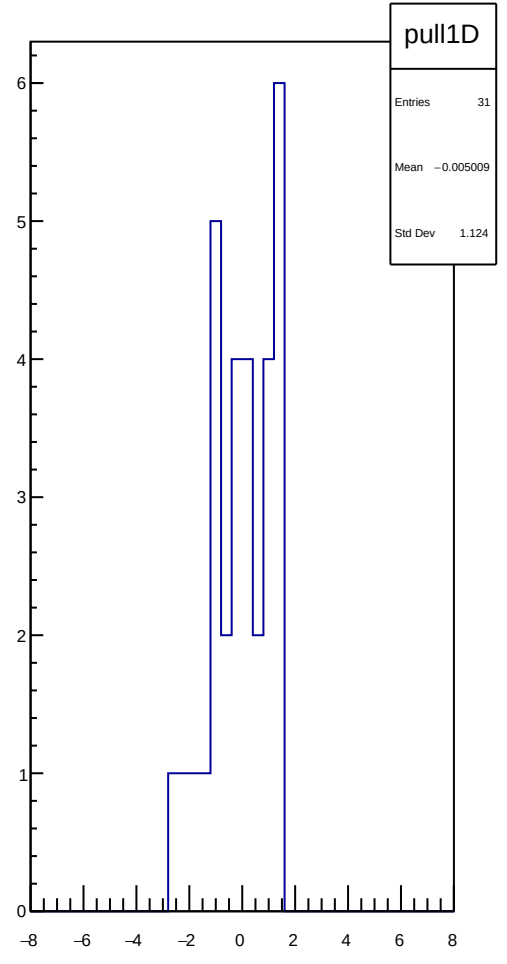

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2180 / 30
p0 283.6 ± 0.3681
330
320
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

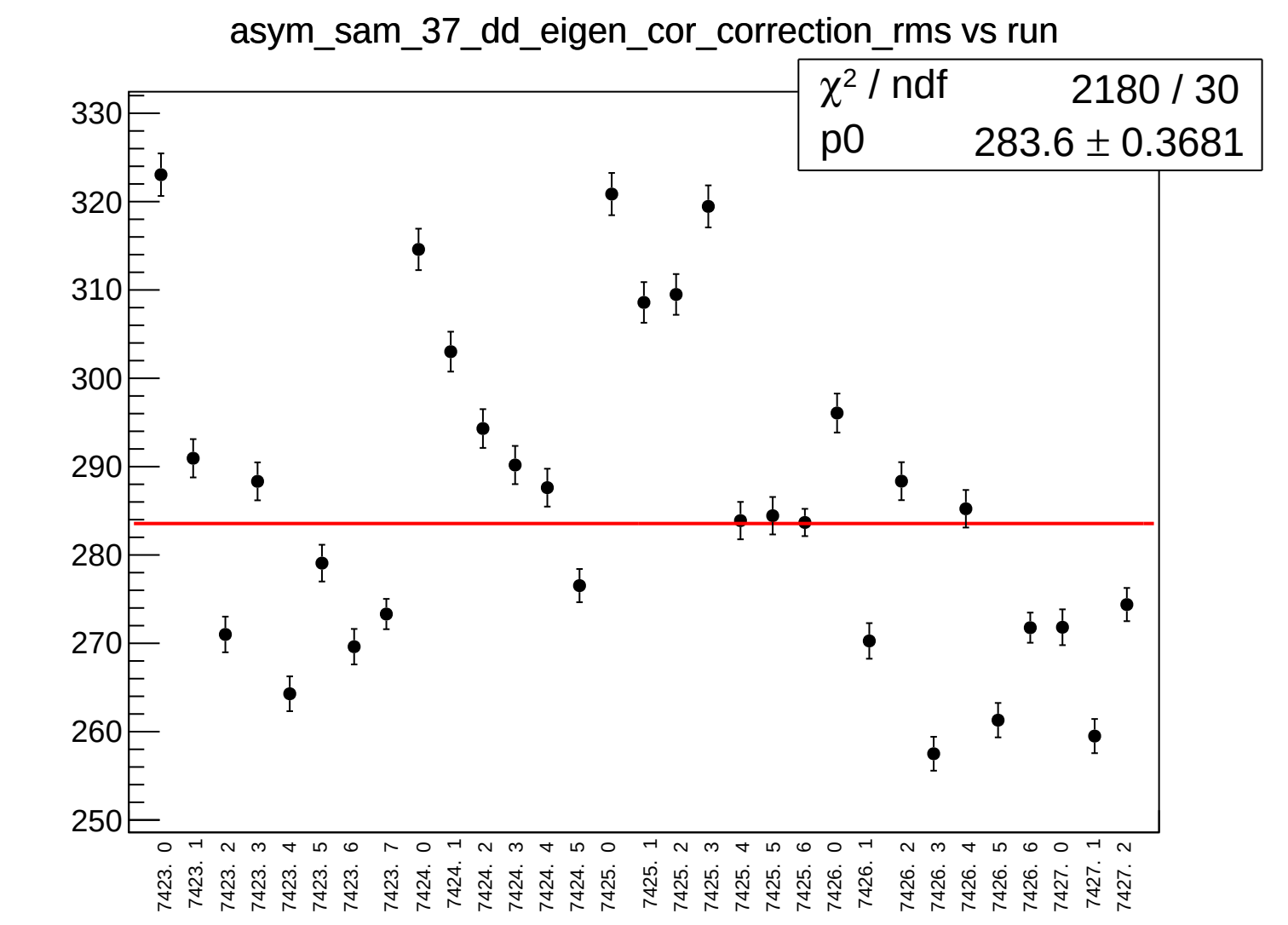

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 38.59 / 30
p0 −192.5 ± 97.89
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 172.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

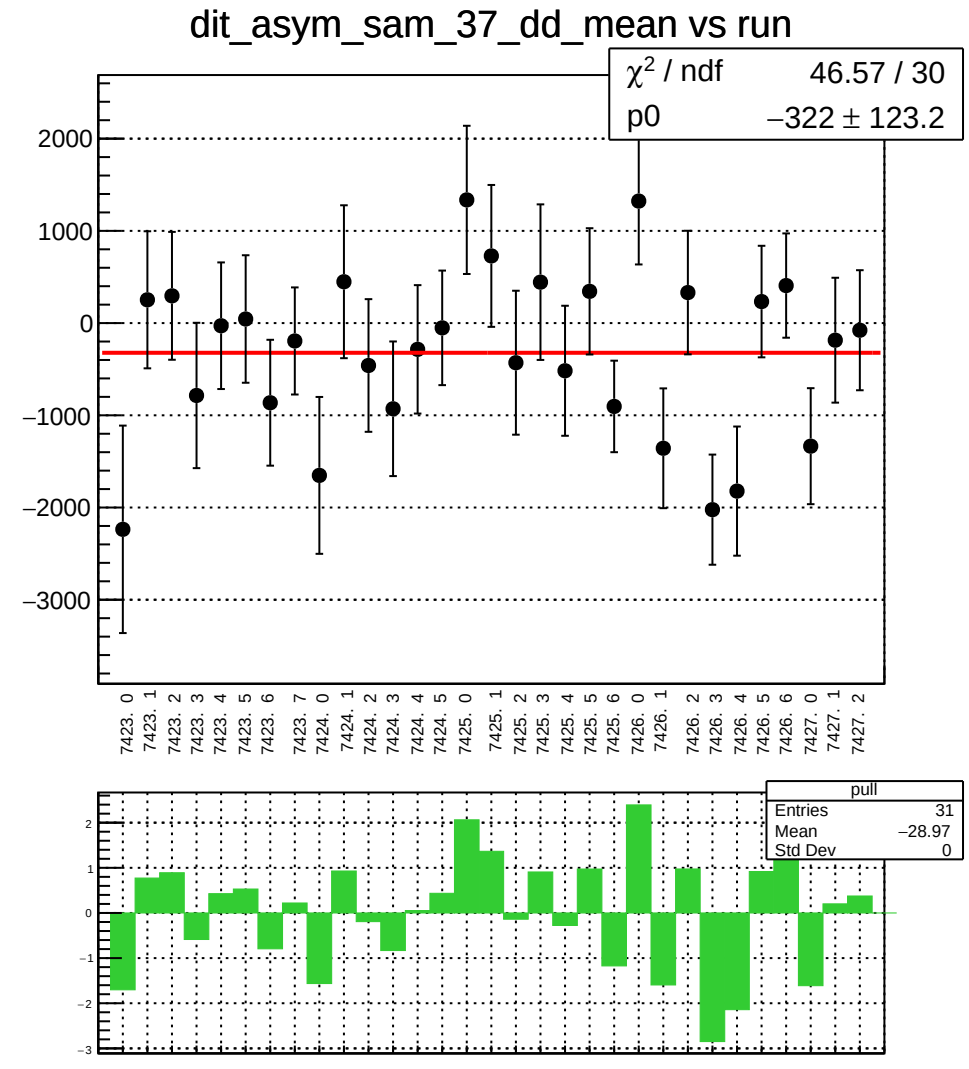

pull1D
Entries 31
Mean −0.0138
Std Dev 1.116
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

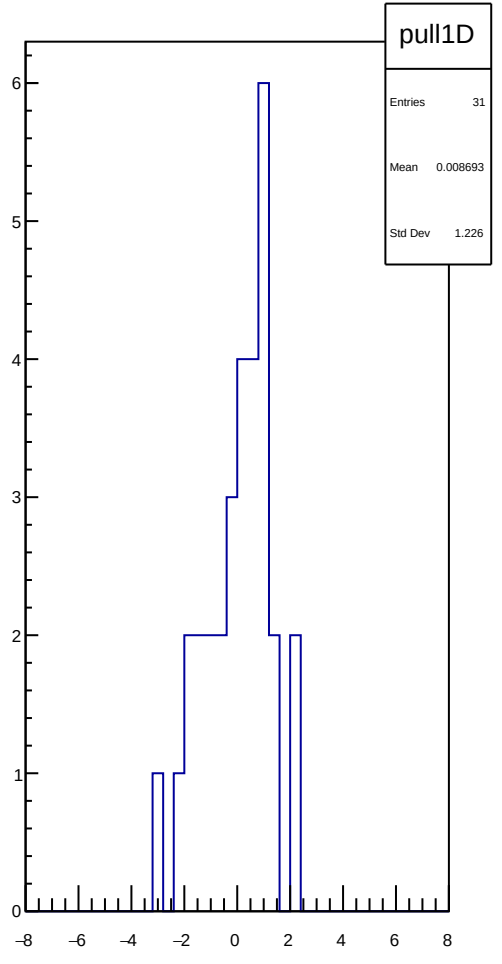

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 3617 / 30
p0 53.25 ± 0.06922
75
70
65
60
55
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

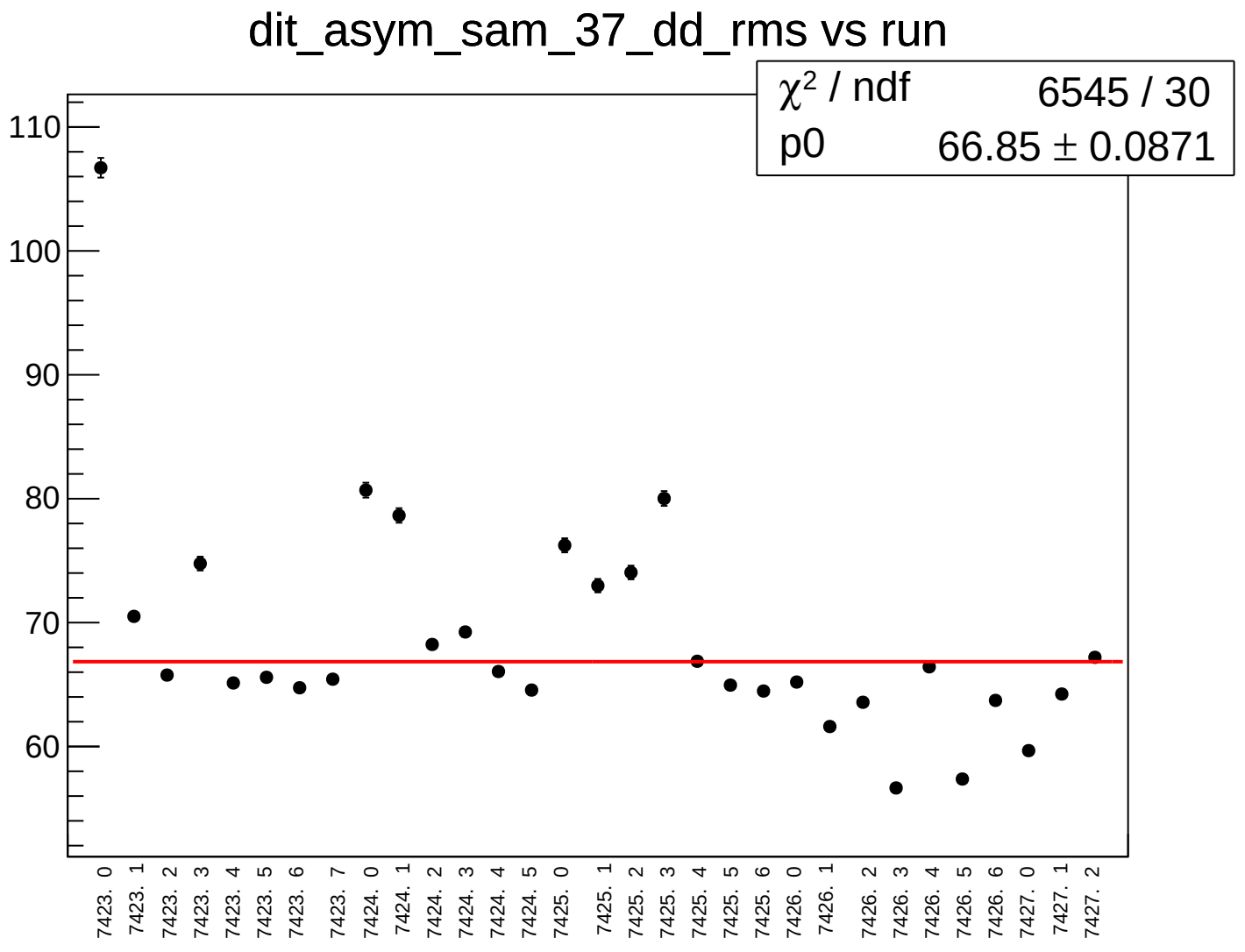

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 39.18 / 30
p0 804 ± 520.6
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 475.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

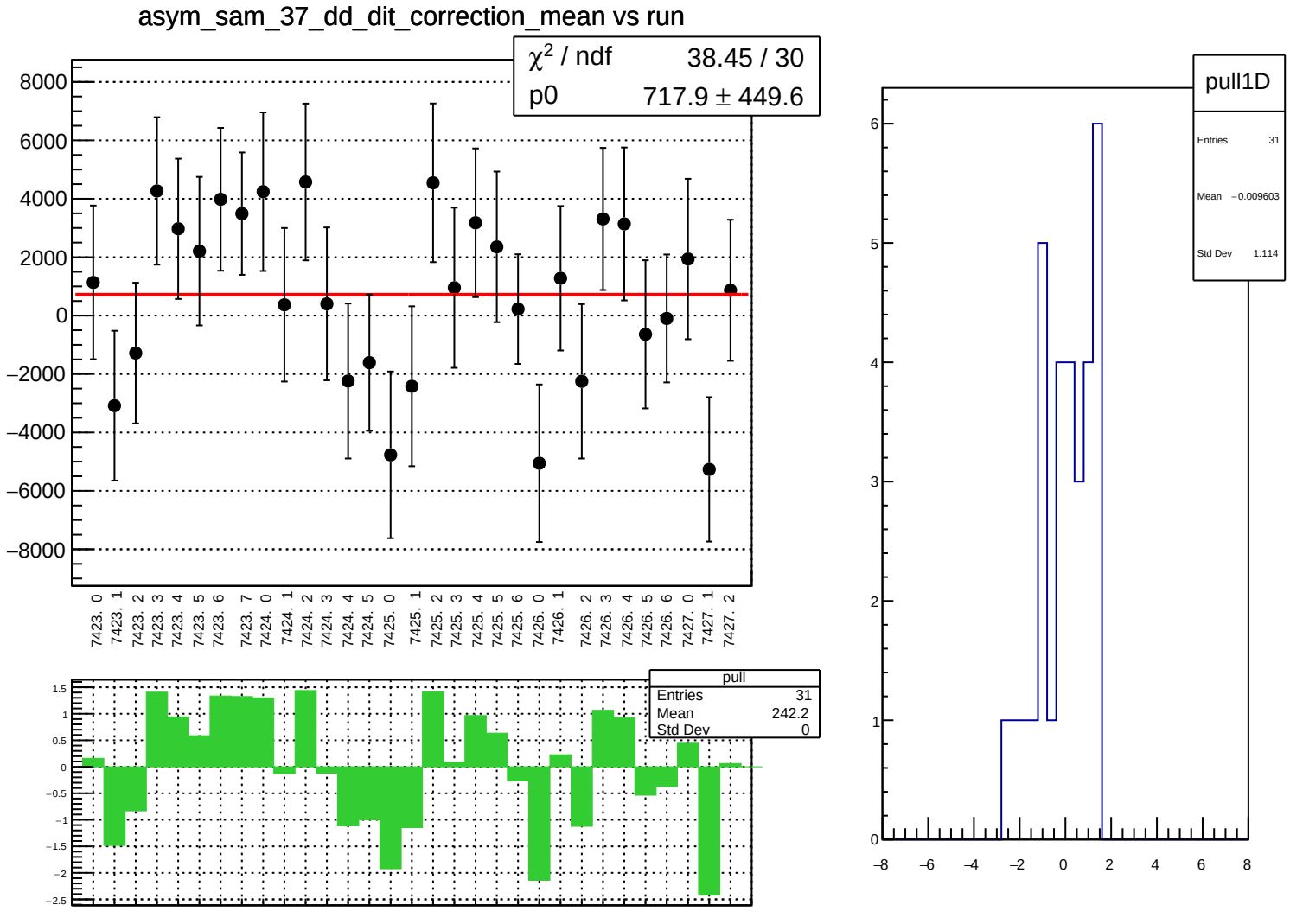

pull1D
Entries 31
Mean −0.005009
Std Dev 1.124
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

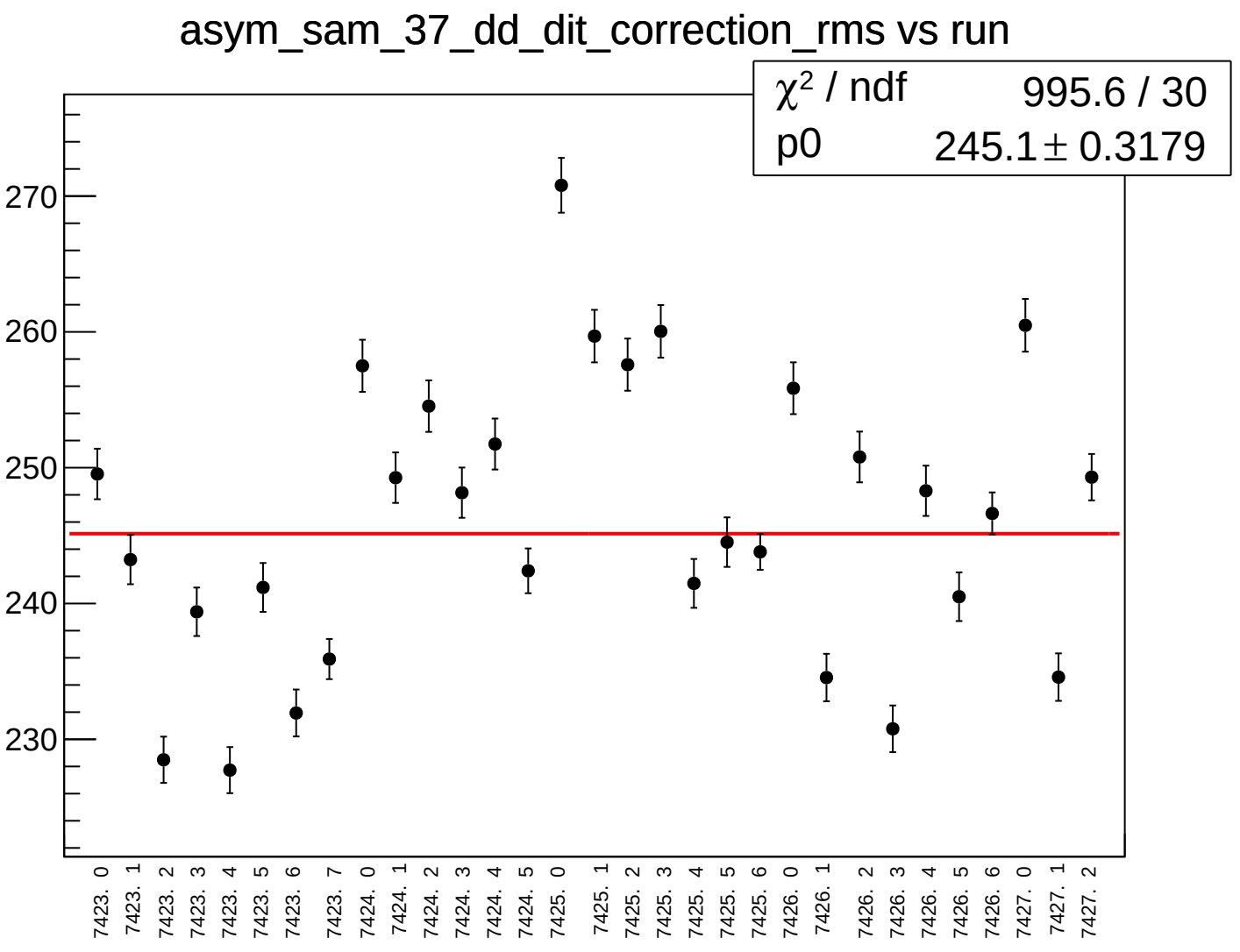

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2180 / 30
p0 283.6 ± 0.3681
330
320
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

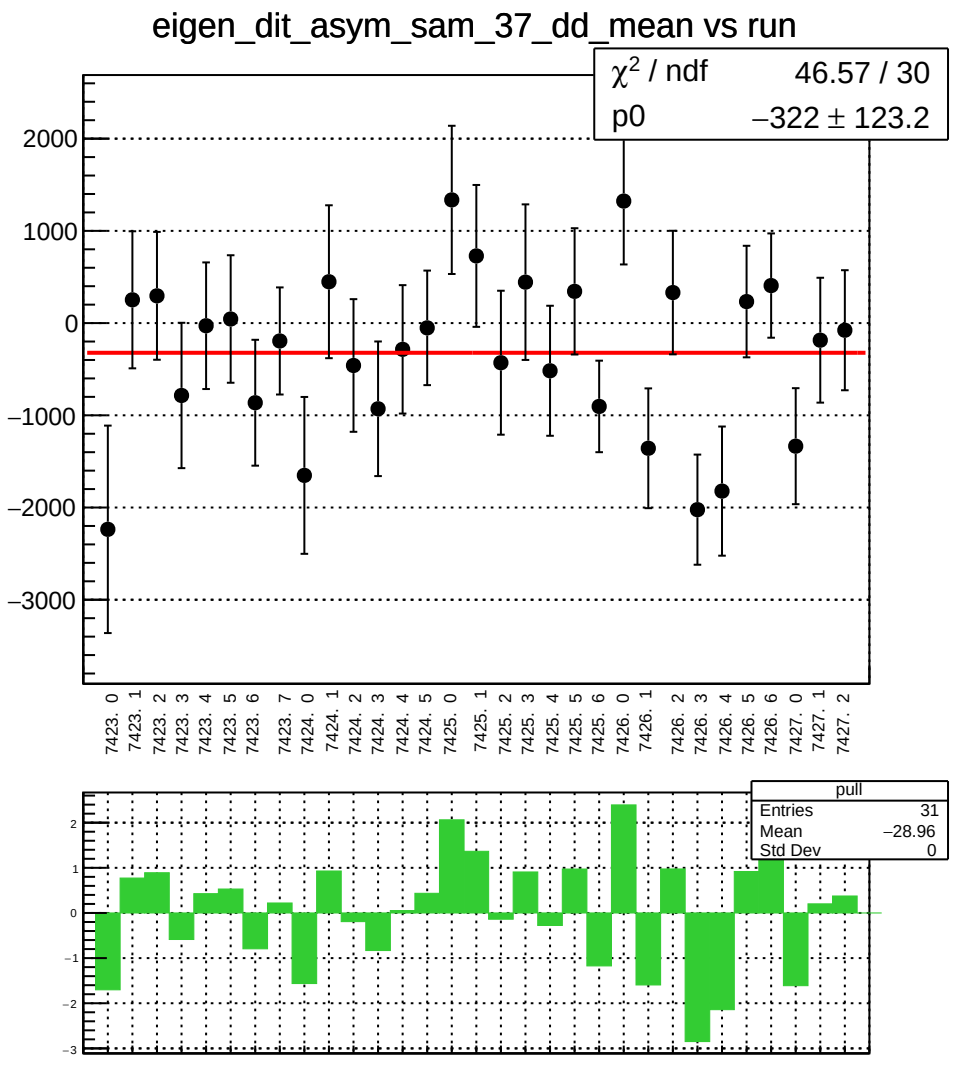

dit_asym_sam_37_dd_mean vs run
χ² / ndf 46.57 / 30
p0 −322 ± 123.2
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −28.97
Std Dev 0
2
1
0
−1
−2
−3

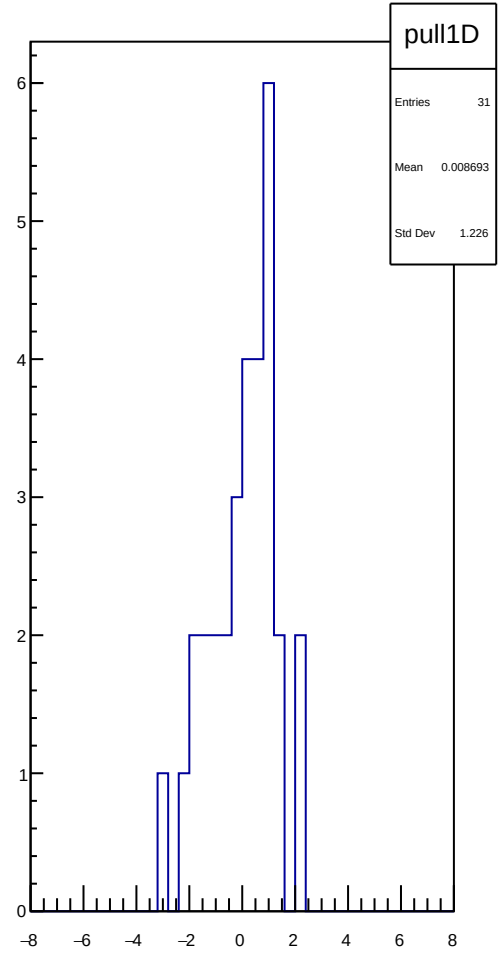

pull1D
Entries 31
Mean 0.008693
Std Dev 1.226
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

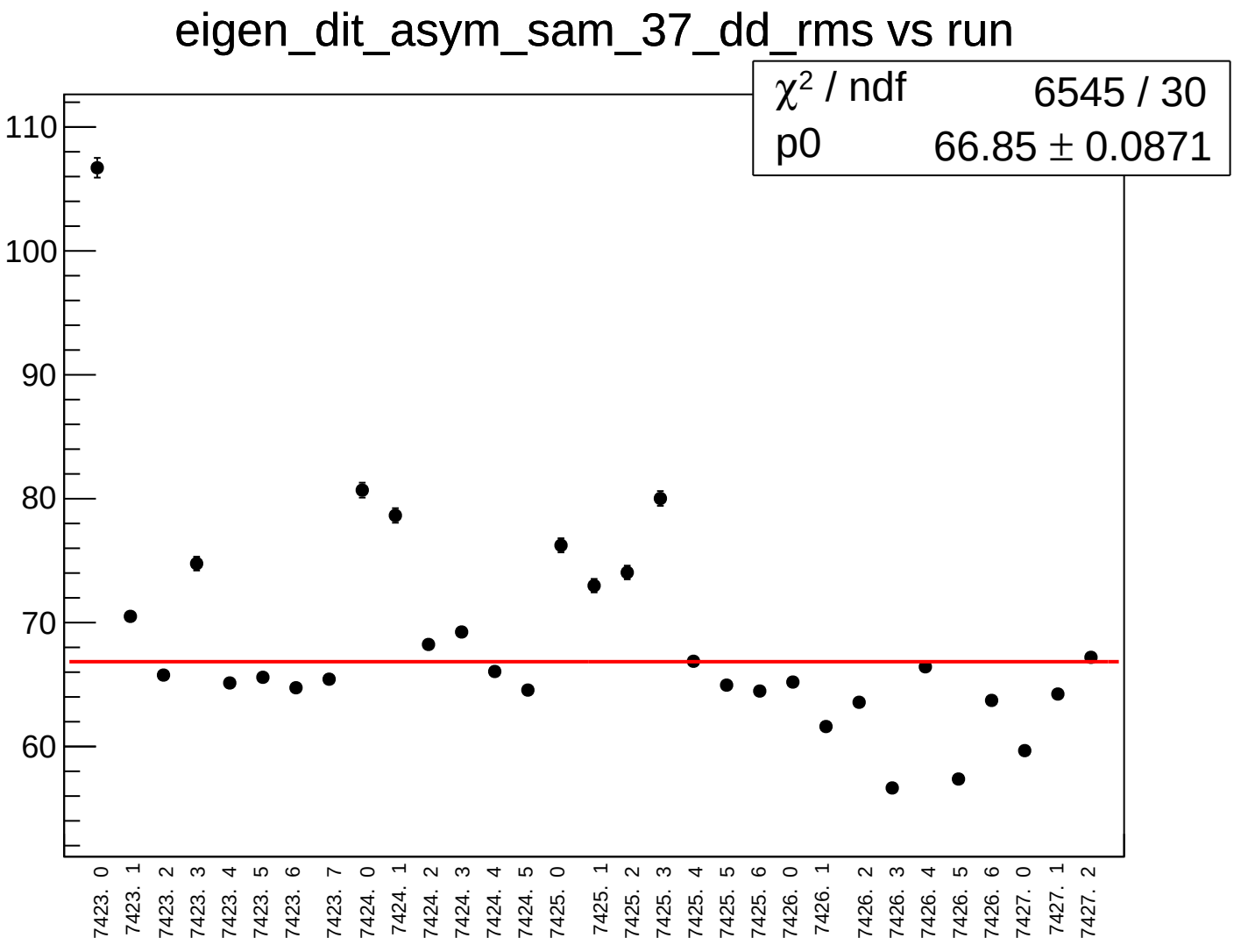

dit_asym_sam_37_dd_rms vs run
χ² / ndf 6545 / 30
p0 66.85 ± 0.0871
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

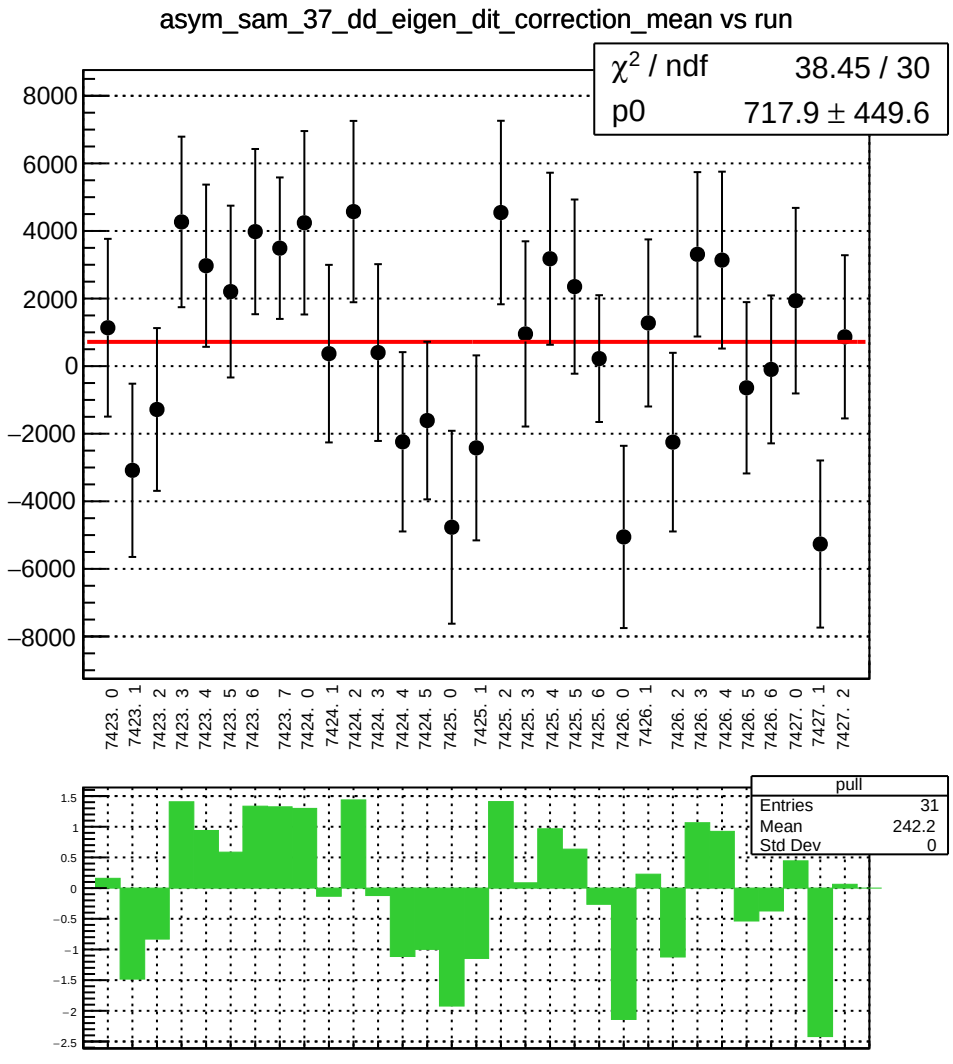

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 38.45 / 30
p0 717.9 ± 449.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 242.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.009603
Std Dev 1.114
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

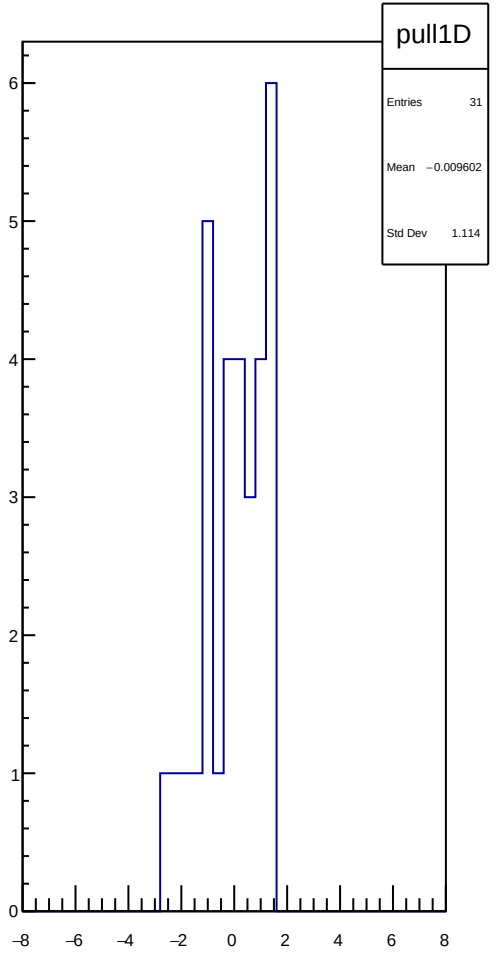

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 995.6 / 30
p0 245.1 ± 0.3179
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

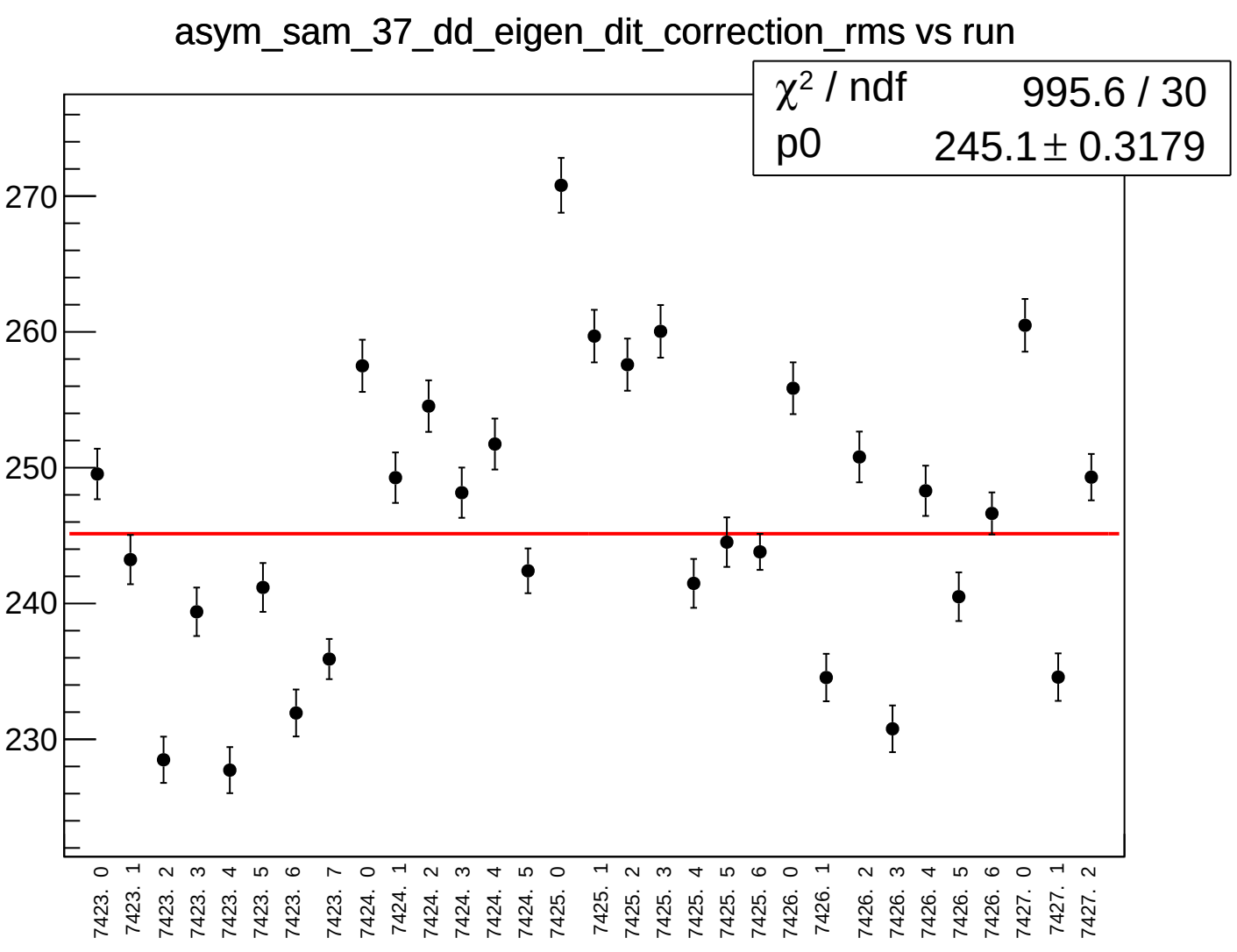

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 46.57 / 30
p0 −322 ± 123.2
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −28.96
Std Dev 0
2
1
0
−1
−2
−3

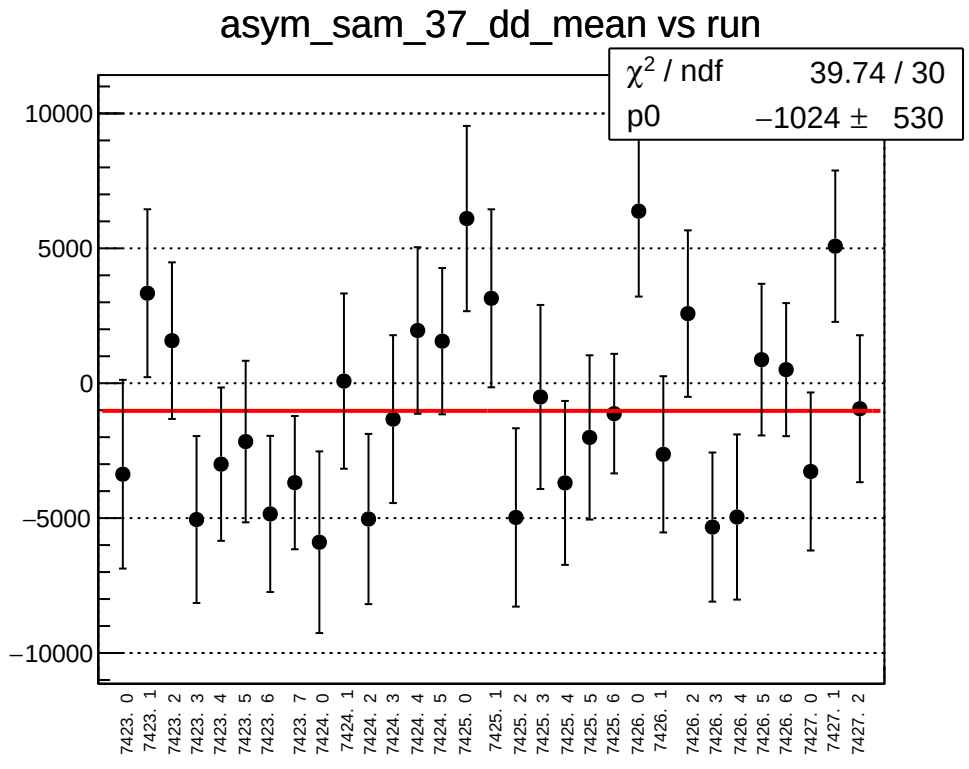

pull1D
Entries 31
Mean 0.008693
Std Dev 1.226
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

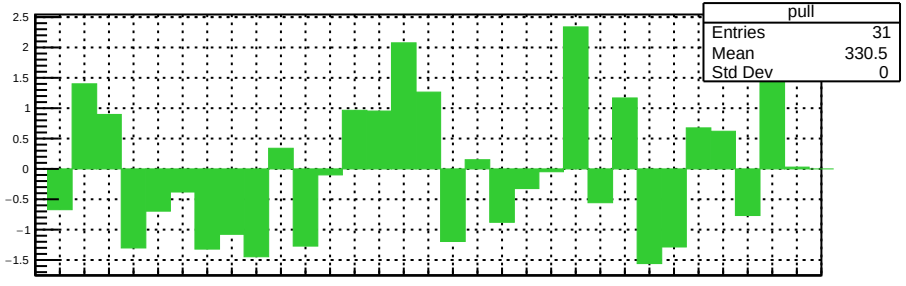

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 6545 / 30
p0 66.85 ± 0.0871
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

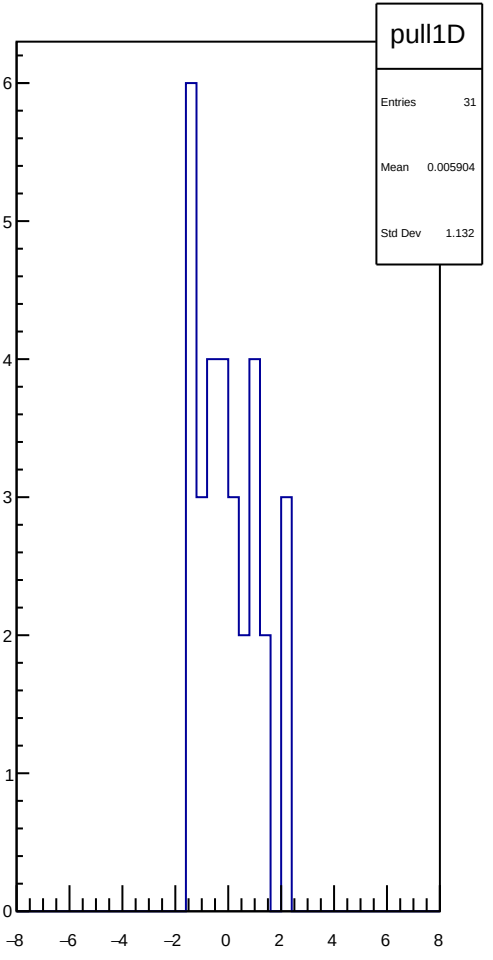

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 38.45 / 30
p0 717.9 ± 449.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 242.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

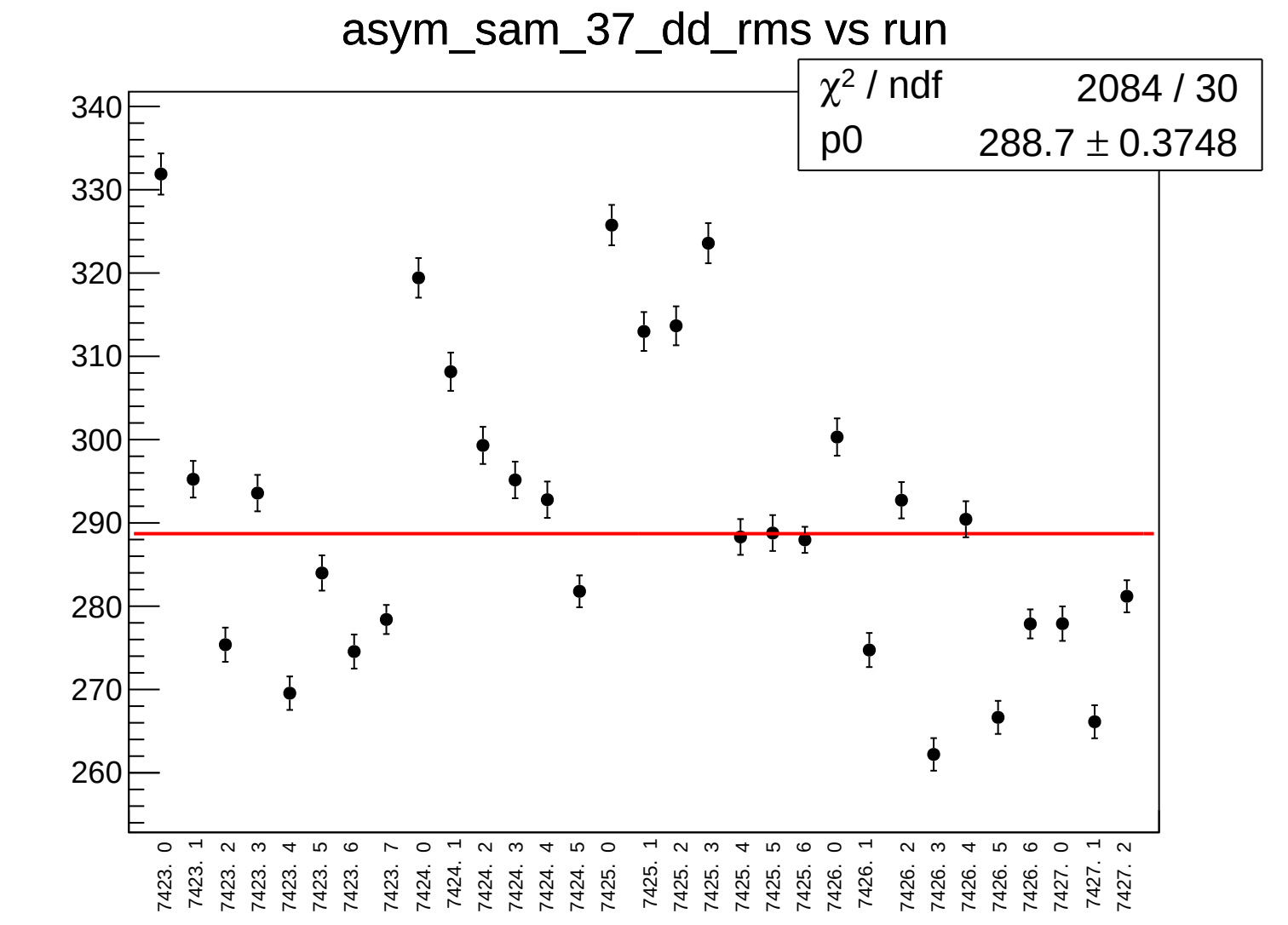

pull1D
Entries 31
Mean −0.009602
Std Dev 1.114
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

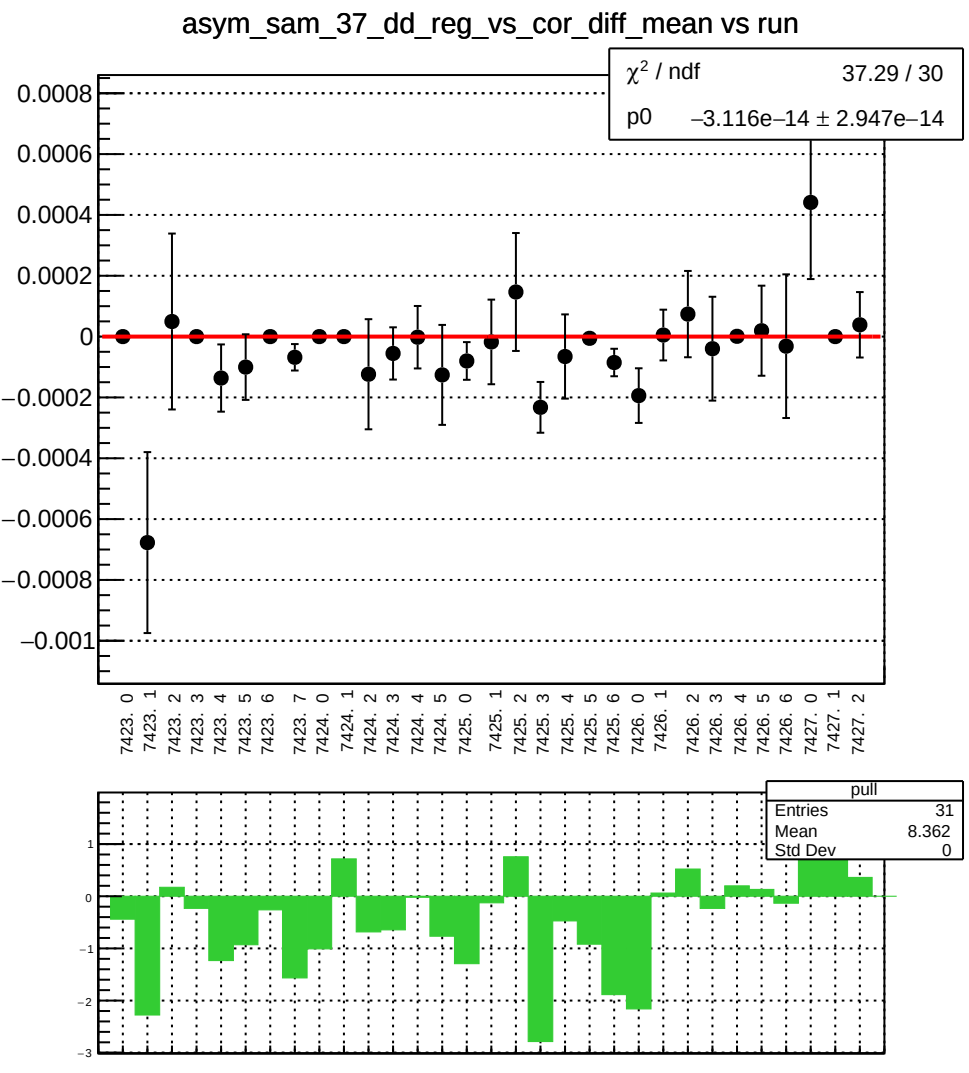

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 995.6 / 30
p0 245.1 ± 0.3179
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

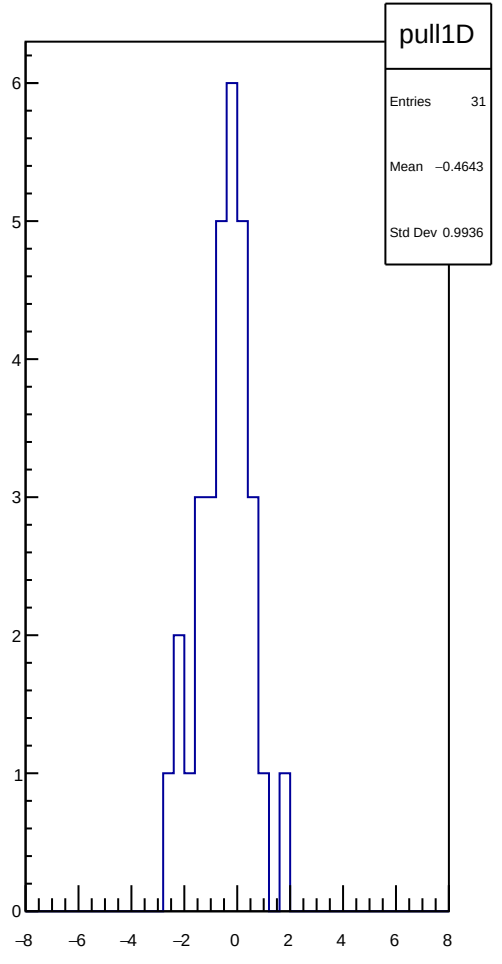

asym_sam_37_dd_mean vs run
χ² / ndf 39.74 / 30
p0 −1024 ± 530
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

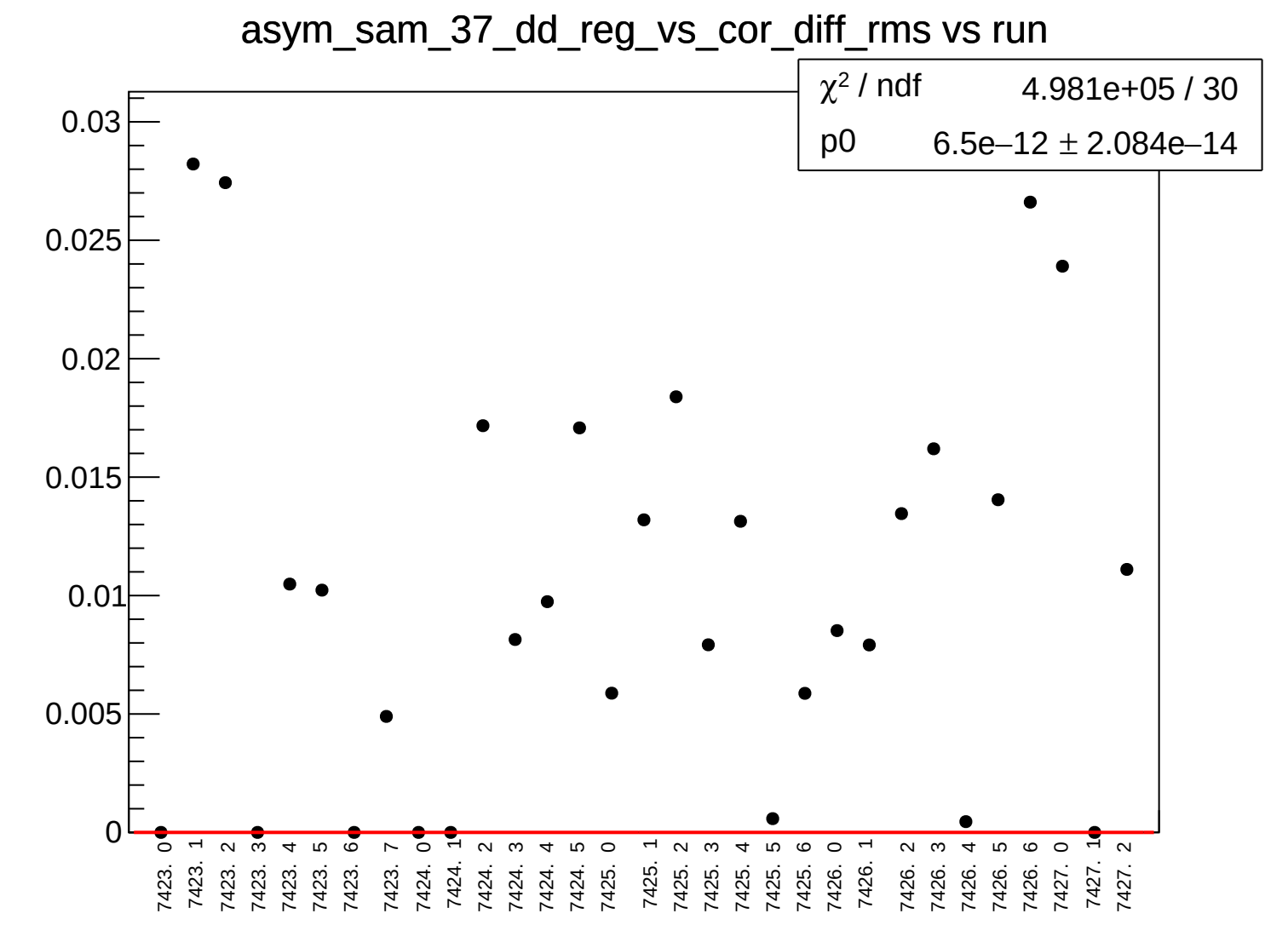

pull
Entries 31
Mean 330.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

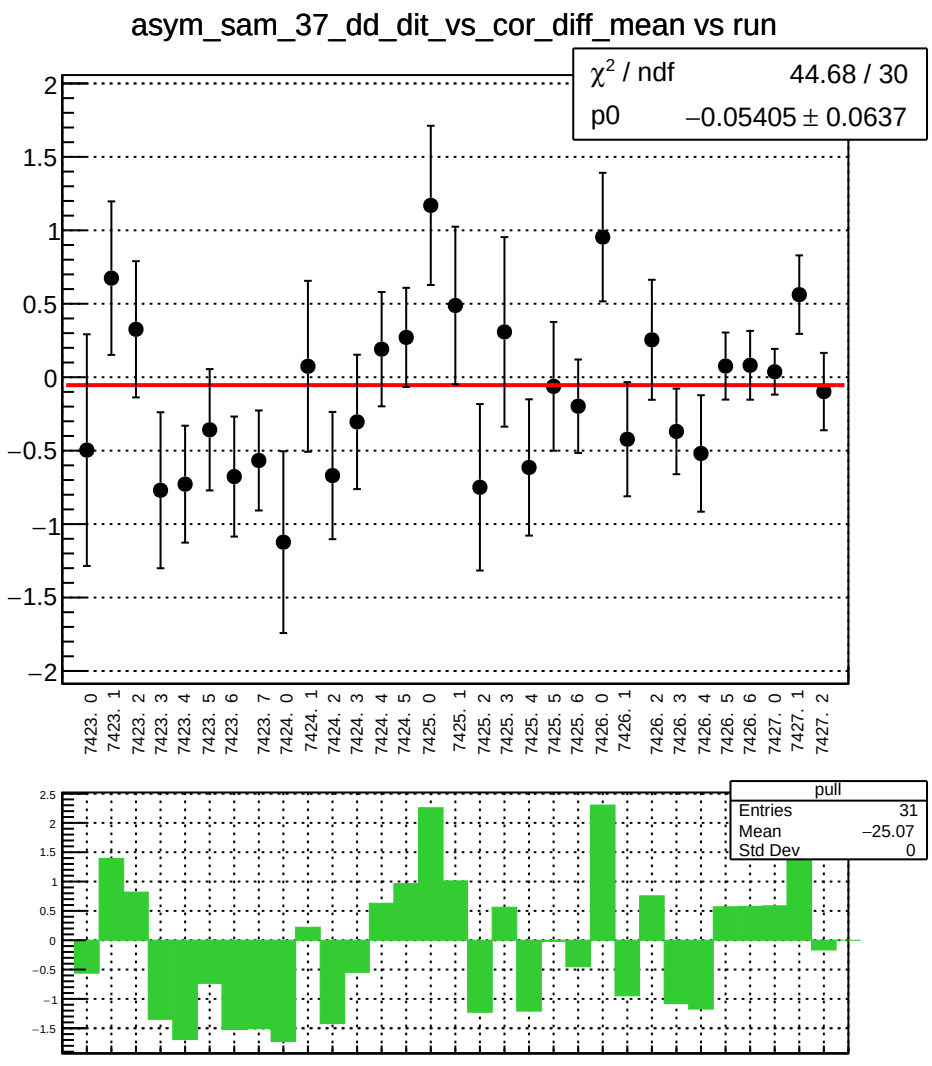

pull1D
Entries 31
Mean 0.005904
Std Dev 1.132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

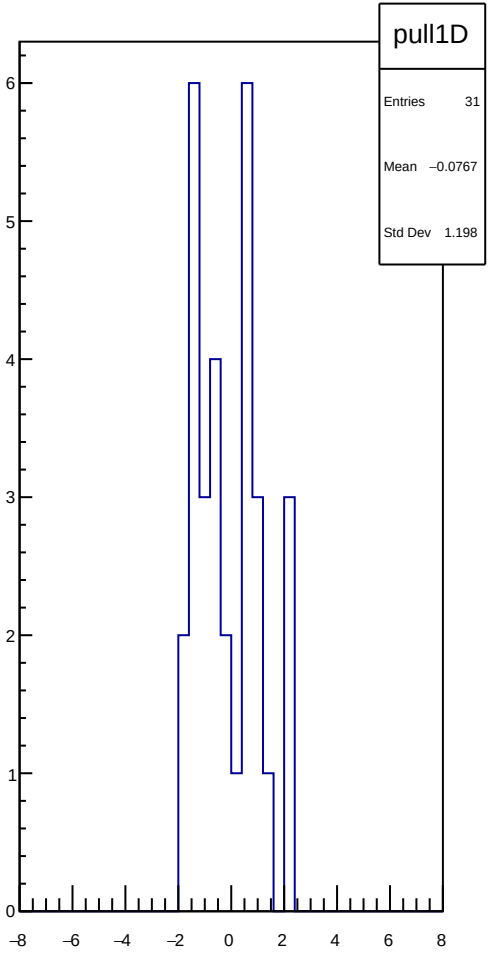

asym_sam_37_dd_rms vs run
χ² / ndf 2084 / 30
p0 288.7 ± 0.3748
340
330
320
310
300
290
280
270
260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

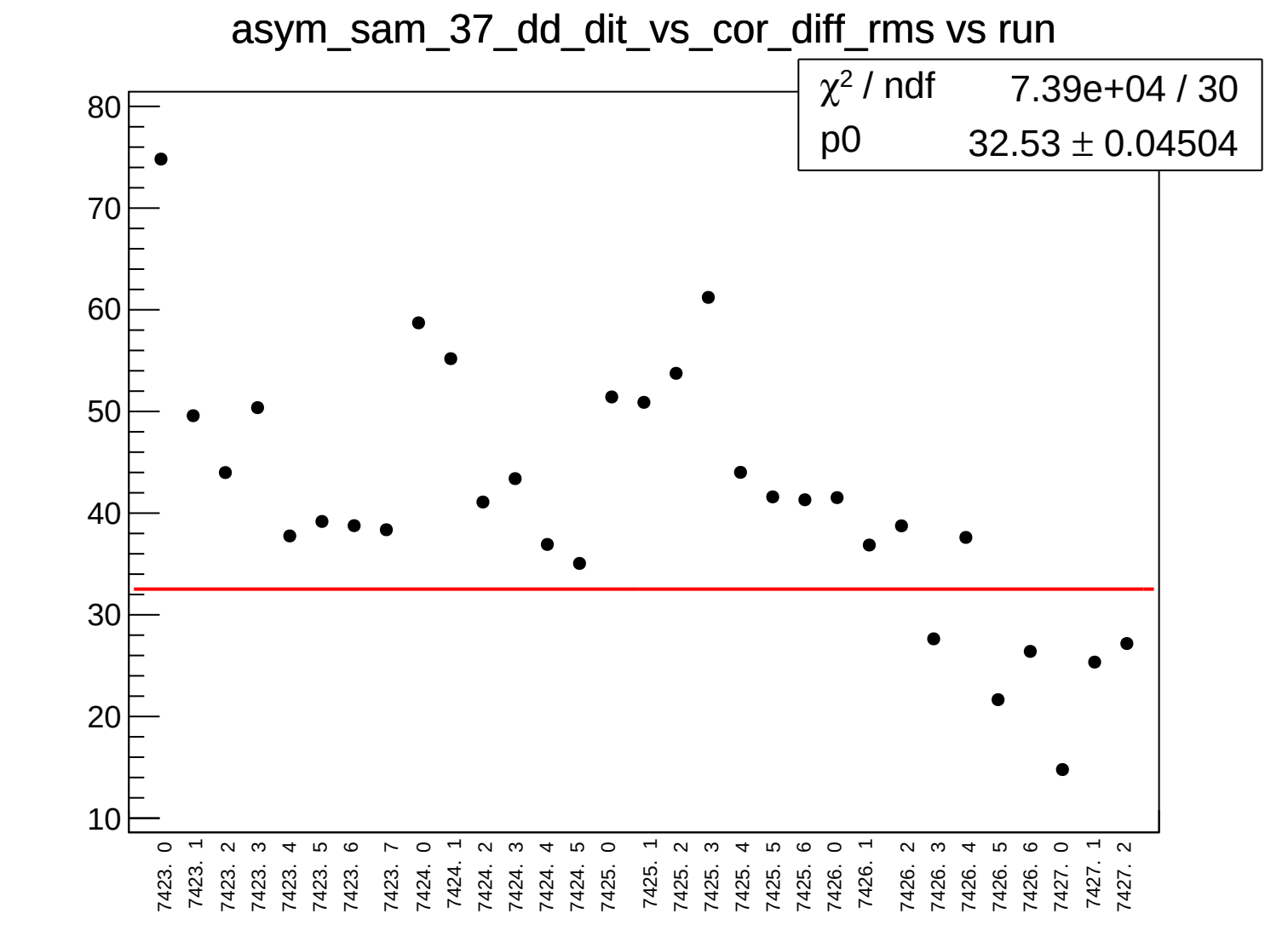

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 37.29 / 30
p0 −3.116e−14 ± 2.947e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.362
Std Dev 0
1
0
−1
−2
−3

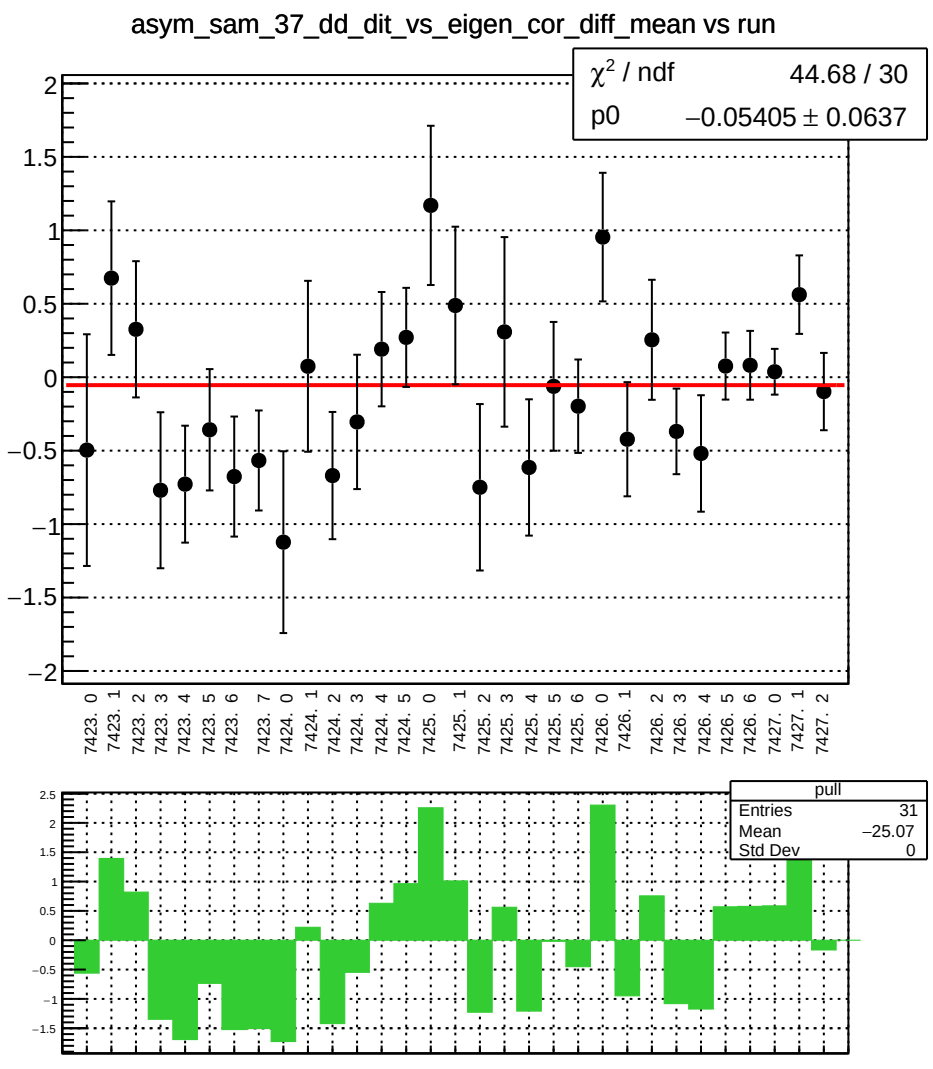

pull1D
Entries 31
Mean −0.4643
Std Dev 0.9936
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

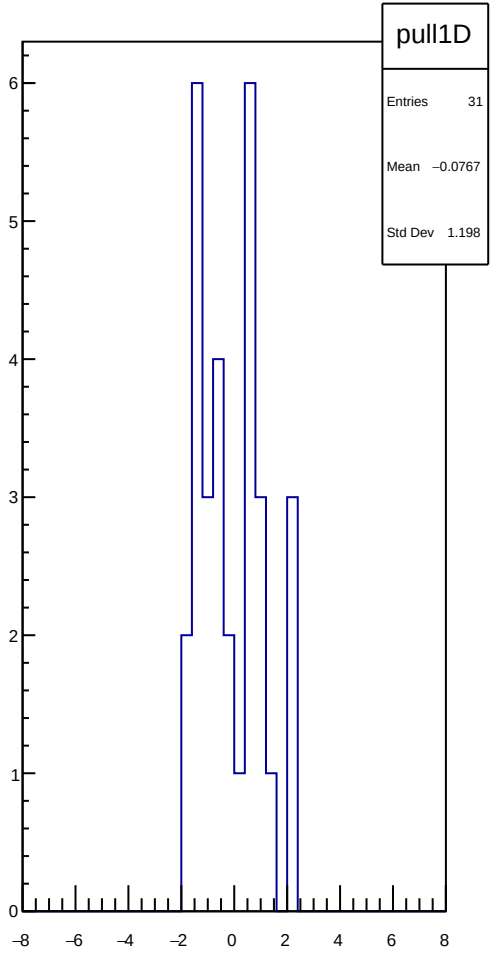

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.981e+05 / 30
p0 6.5e−12 ± 2.084e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

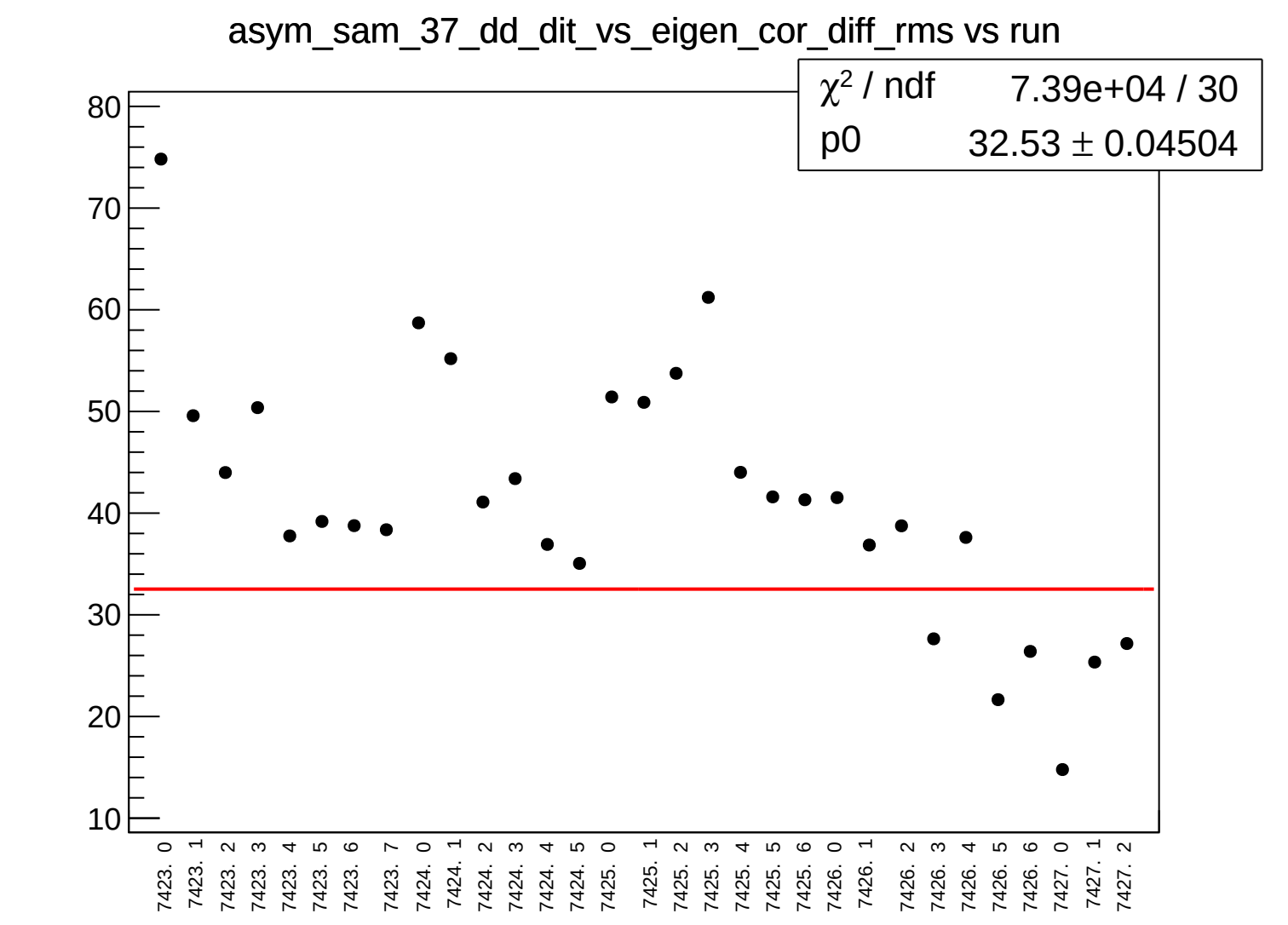

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 44.68 / 30
p0 −0.05405 ± 0.0637
pull
Entries 31
Mean −25.07
Std Dev 0

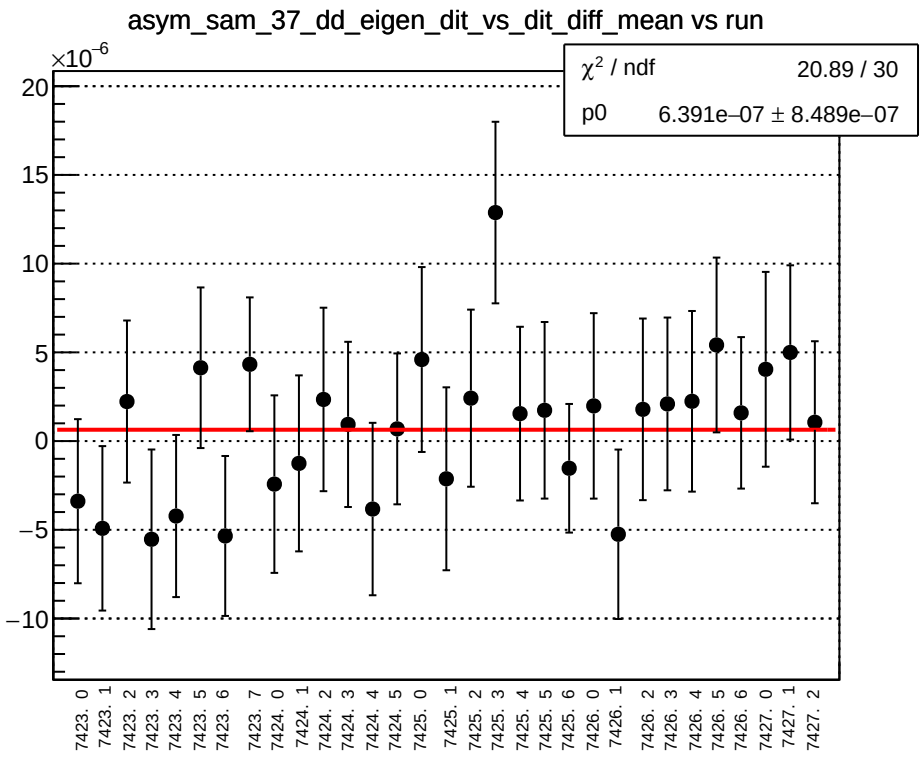

pull1D
Entries 31
Mean −0.0767
Std Dev 1.198

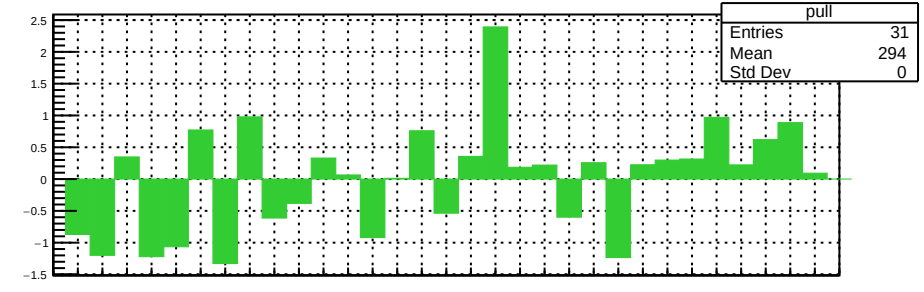

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.39e+04 / 30
p0 32.53 ± 0.04504
80
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

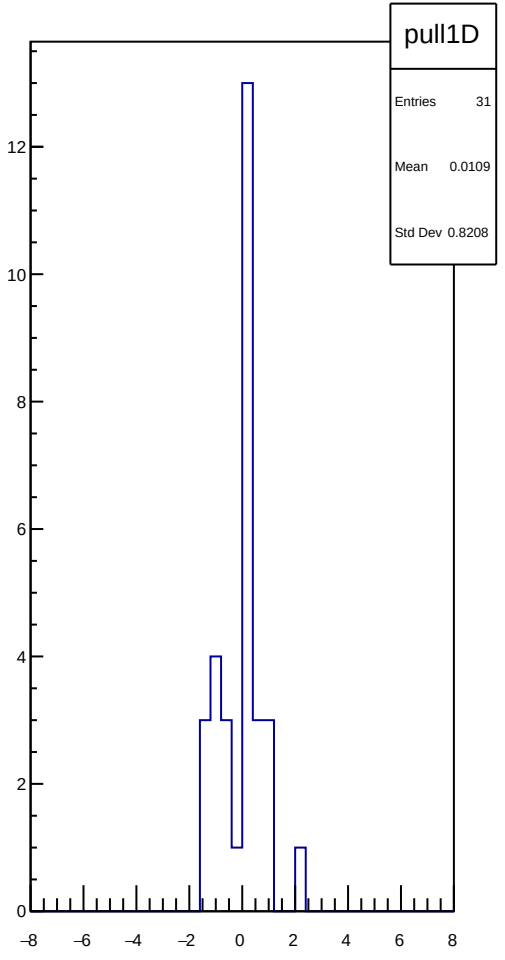

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.68 / 30
p0 −0.05405 ± 0.0637
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −25.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

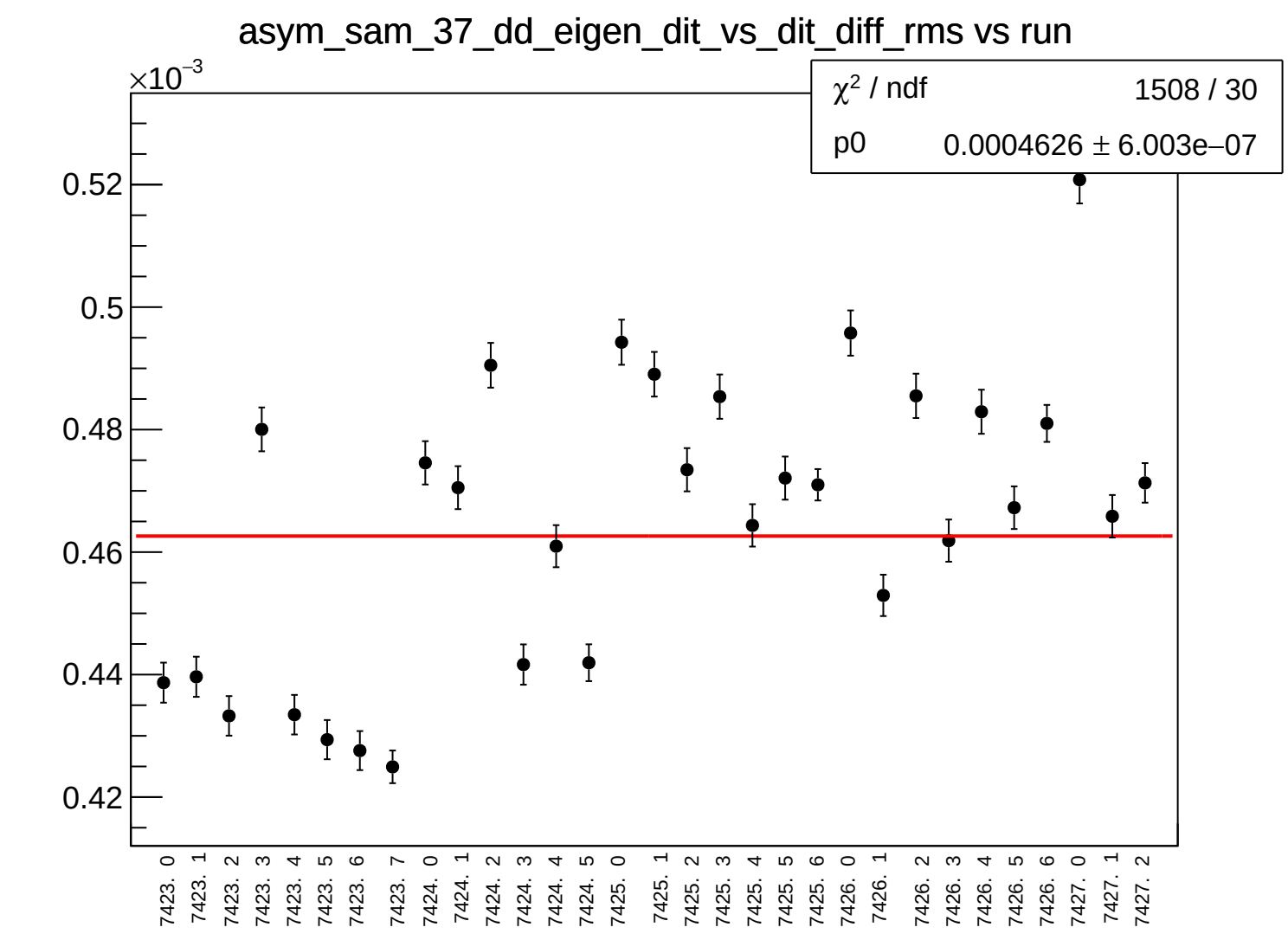

pull1D
Entries 31
Mean −0.0767
Std Dev 1.198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

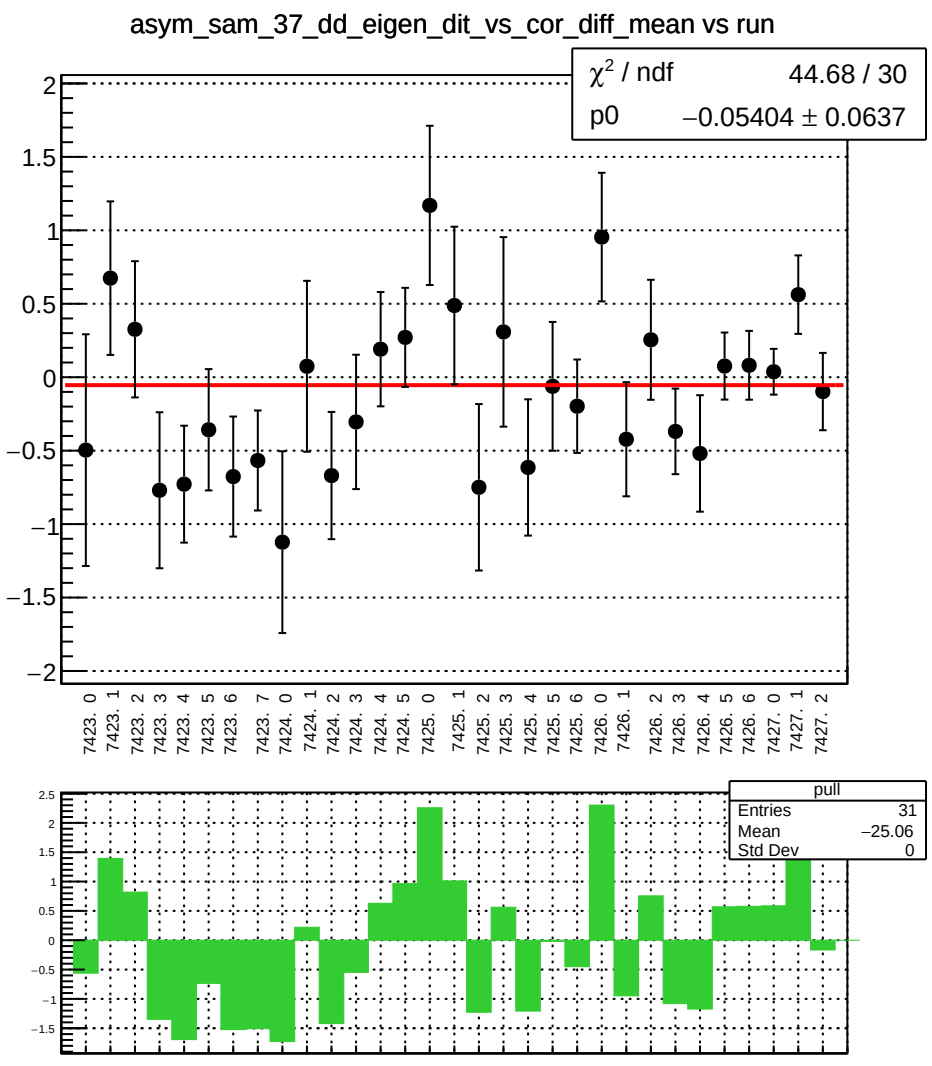

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.39e+04 / 30
p0 32.53 ± 0.04504
80
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

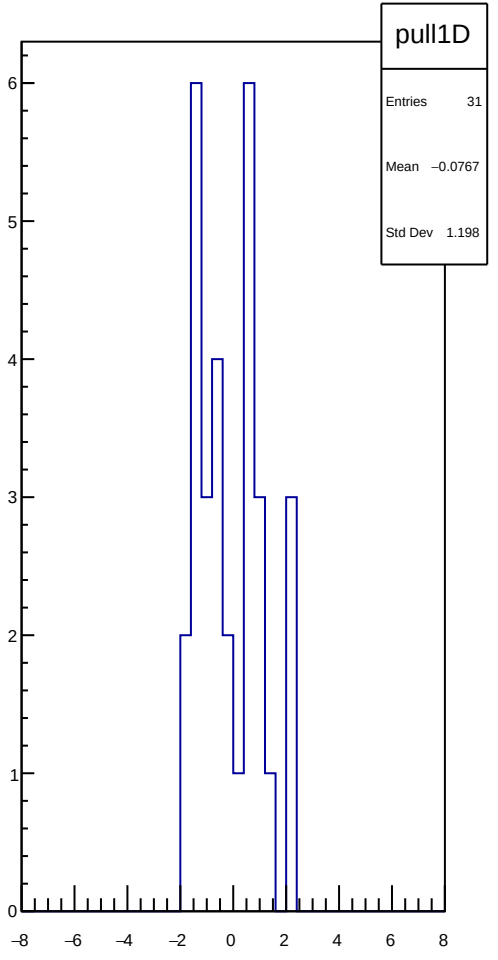

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 20.89 / 30
p0 6.391e−07 ± 8.489e−07
20
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

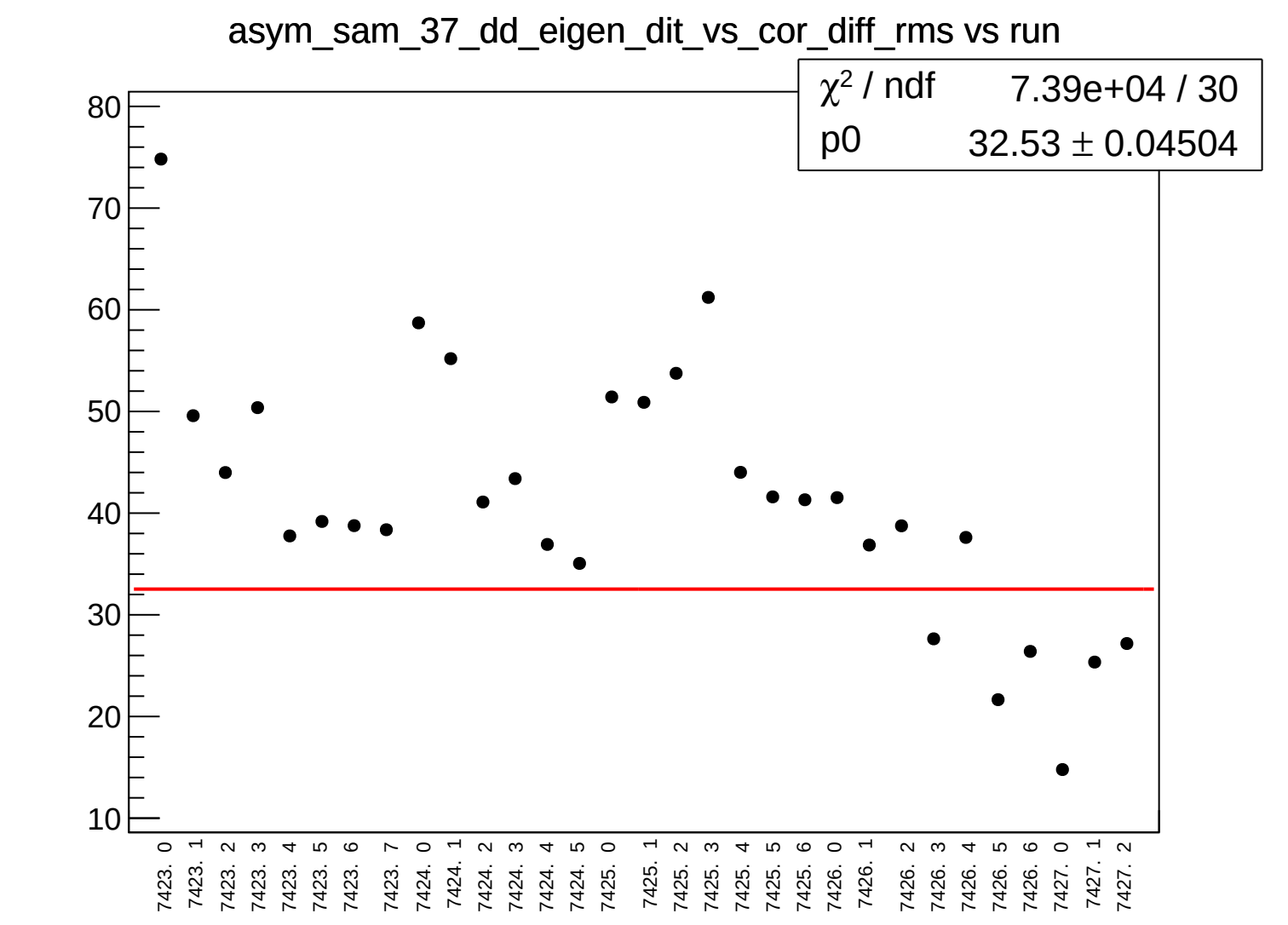

pull
Entries 31
Mean 294
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean 0.0109
Std Dev 0.8208
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

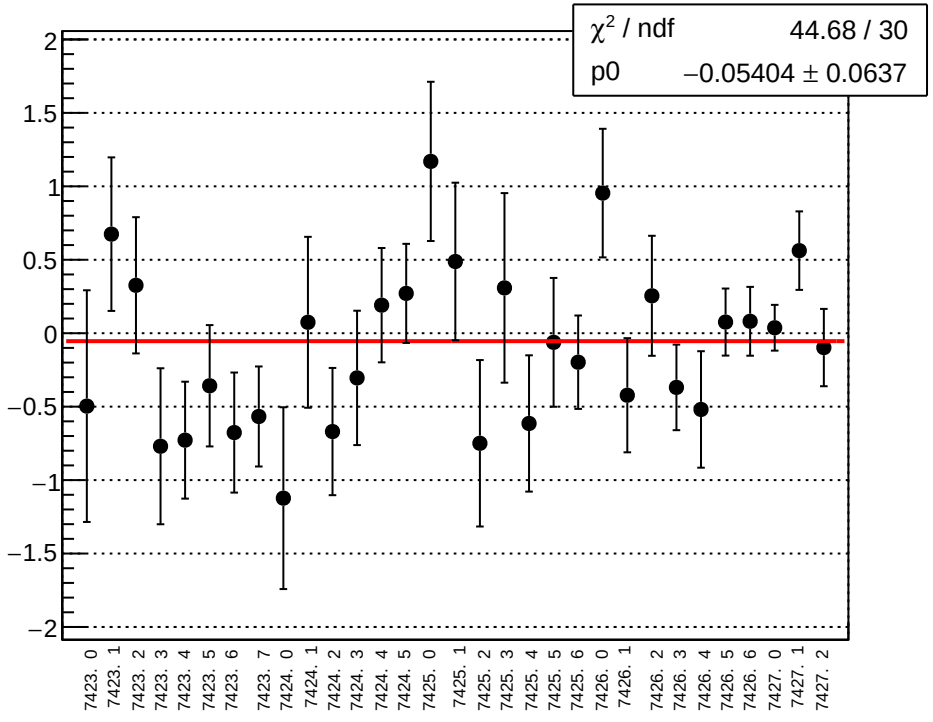

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1508 / 30
p0 0.0004626 ± 6.003e−07
0.52
0.5
0.48
0.46
0.44
0.42
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

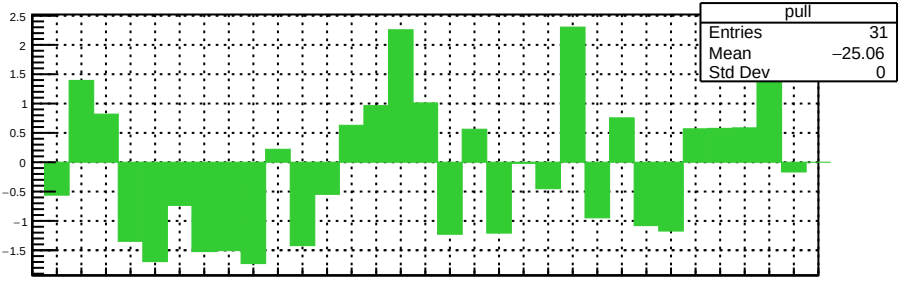

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.68 / 30
p0 −0.05404 ± 0.0637
pull
Entries 31
Mean −25.06
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

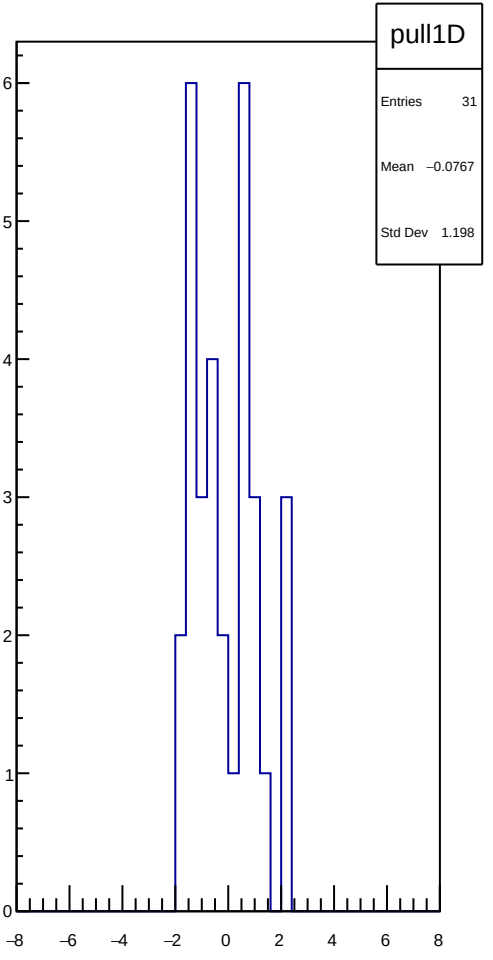

pull1D
Entries 31
Mean −0.0767
Std Dev 1.198

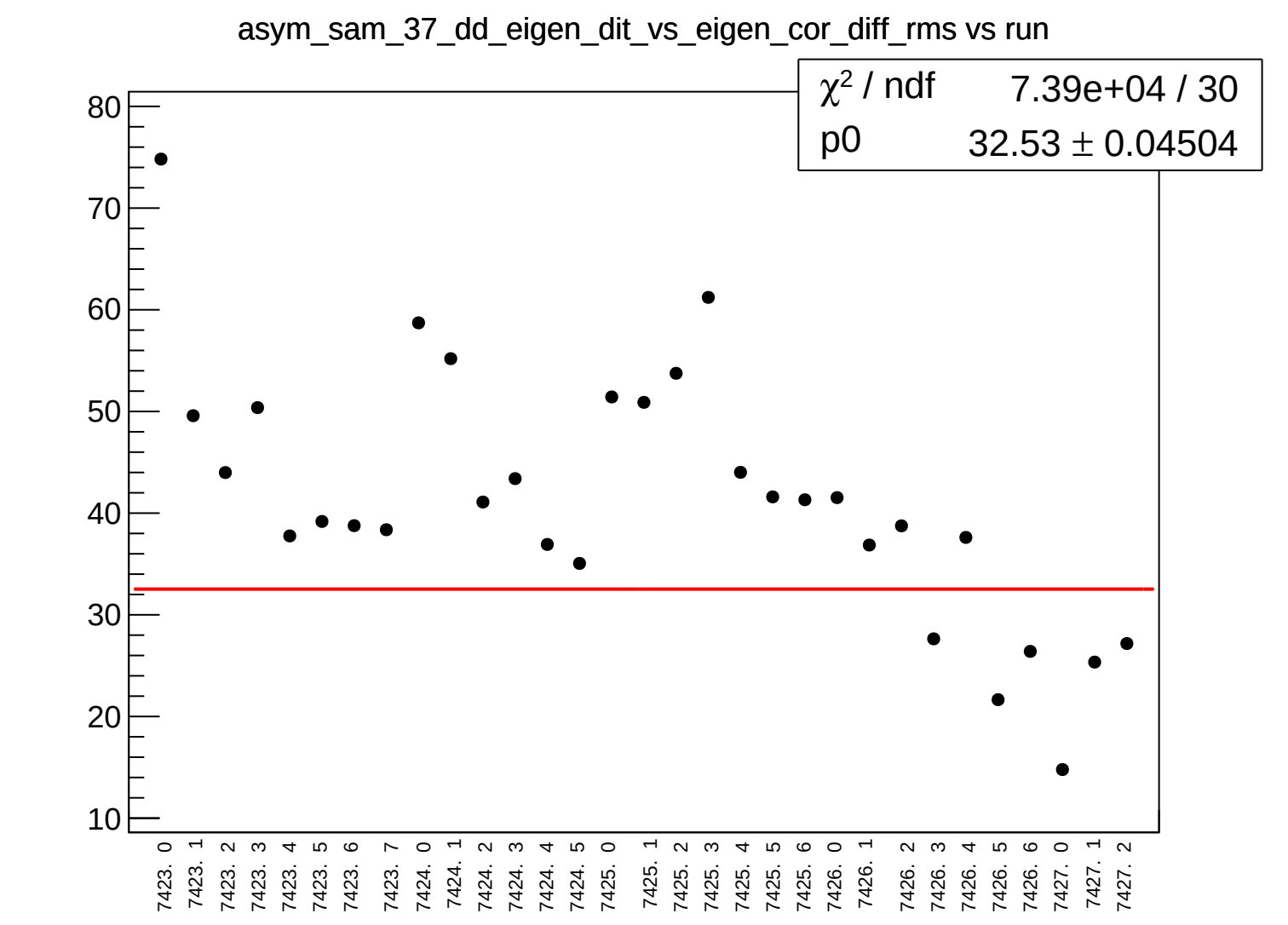

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.39e+04 / 30
p0 32.53 ± 0.04504
80
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

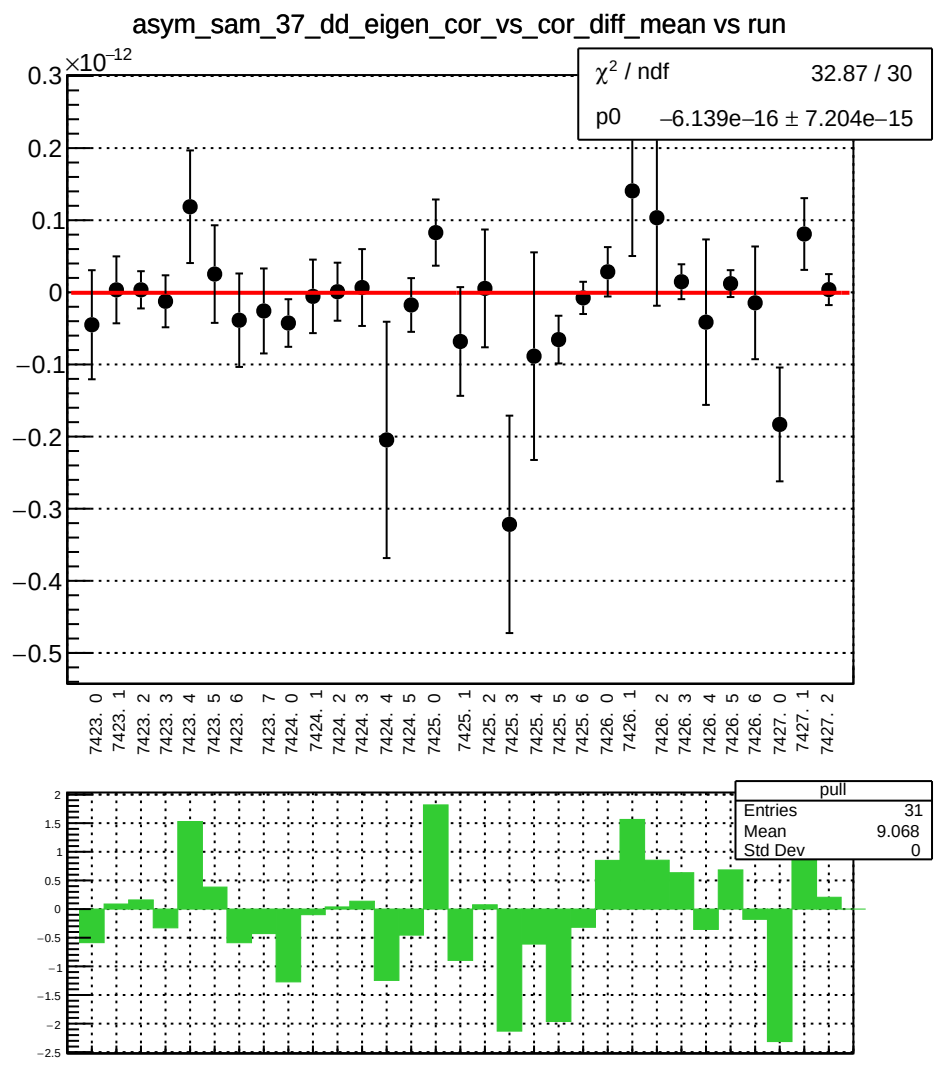
asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

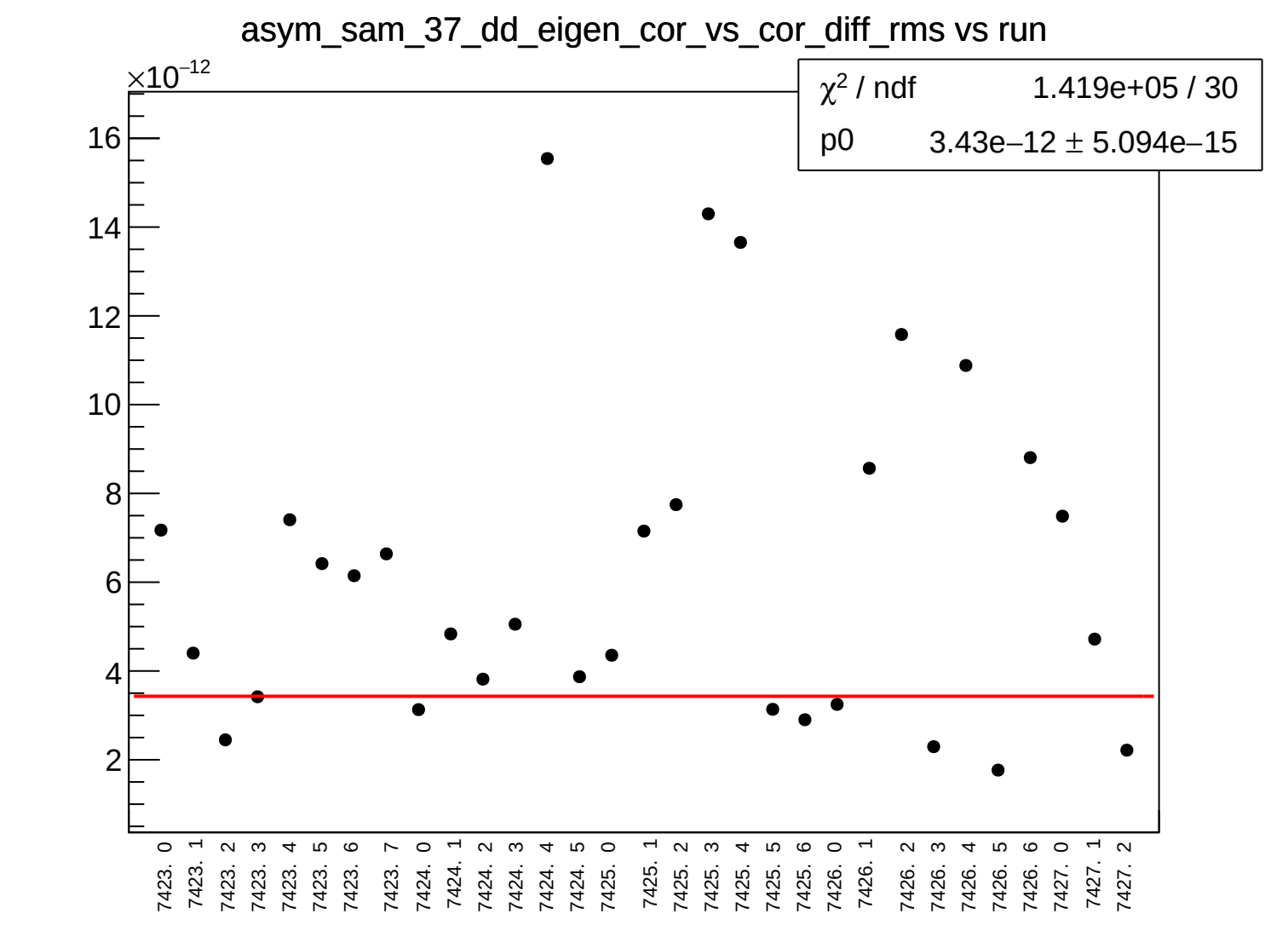


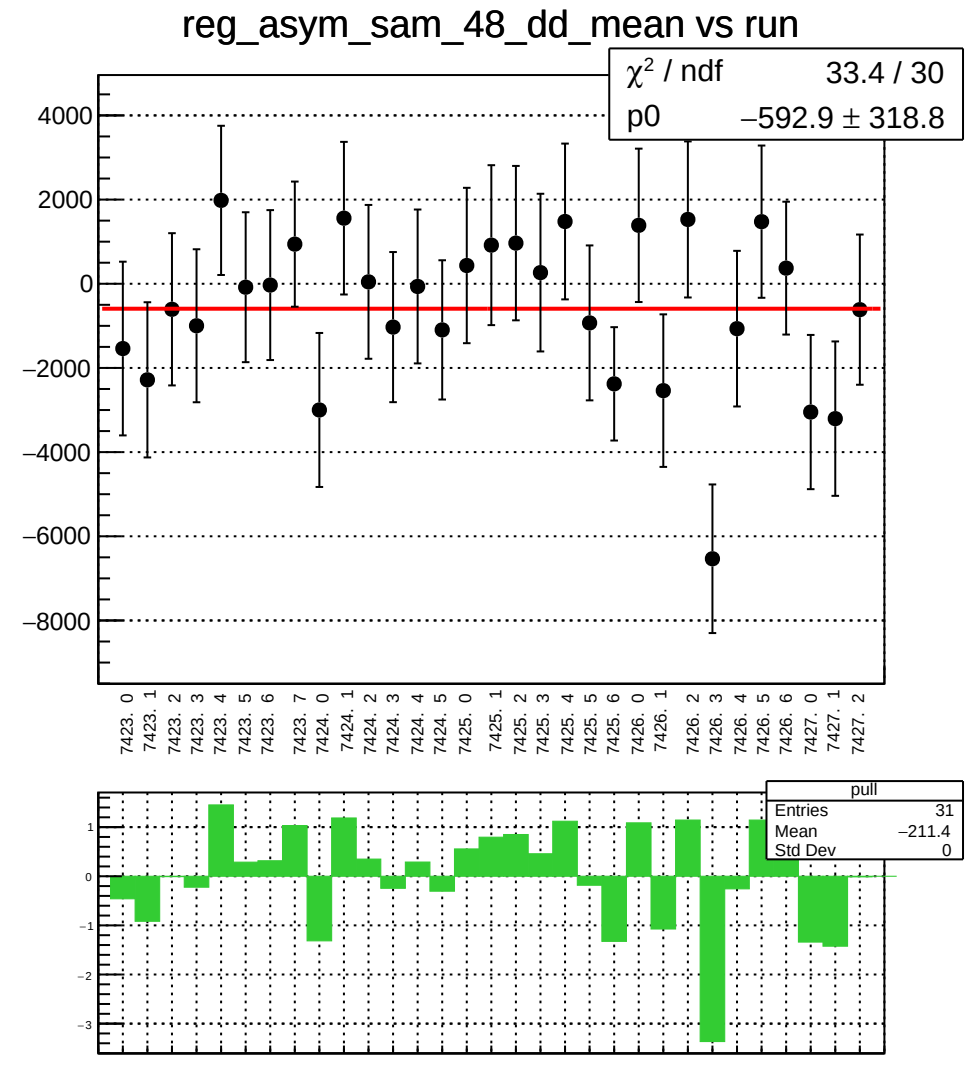


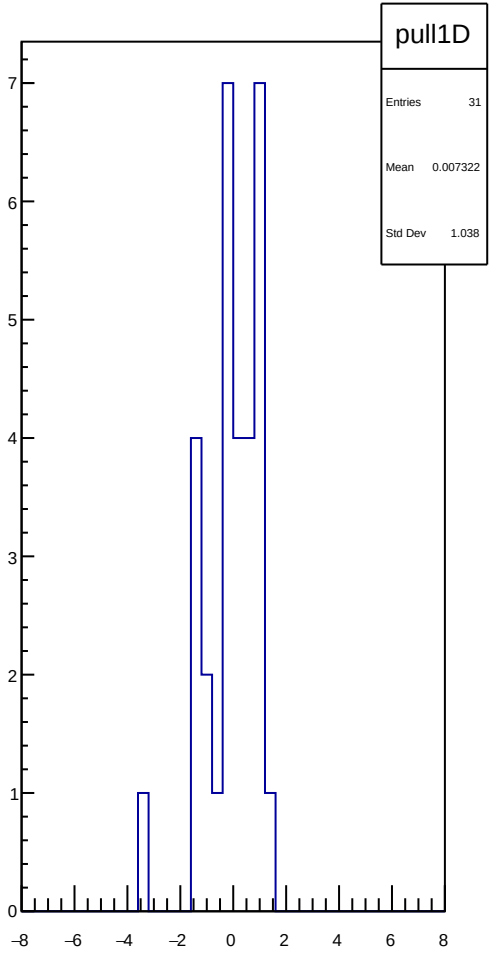


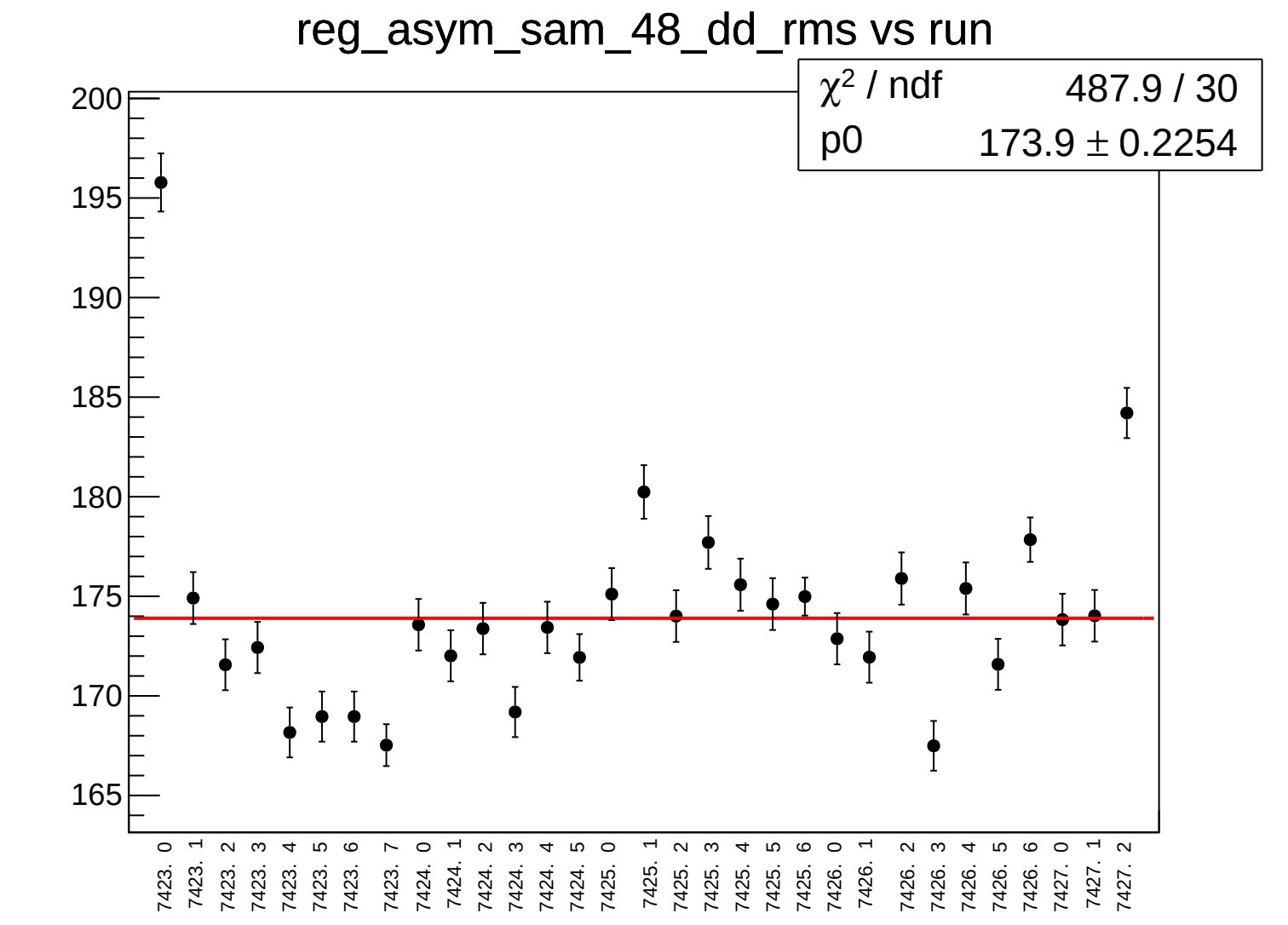

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.39e+04 / 30
p0 32.53 ± 0.04504
80
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

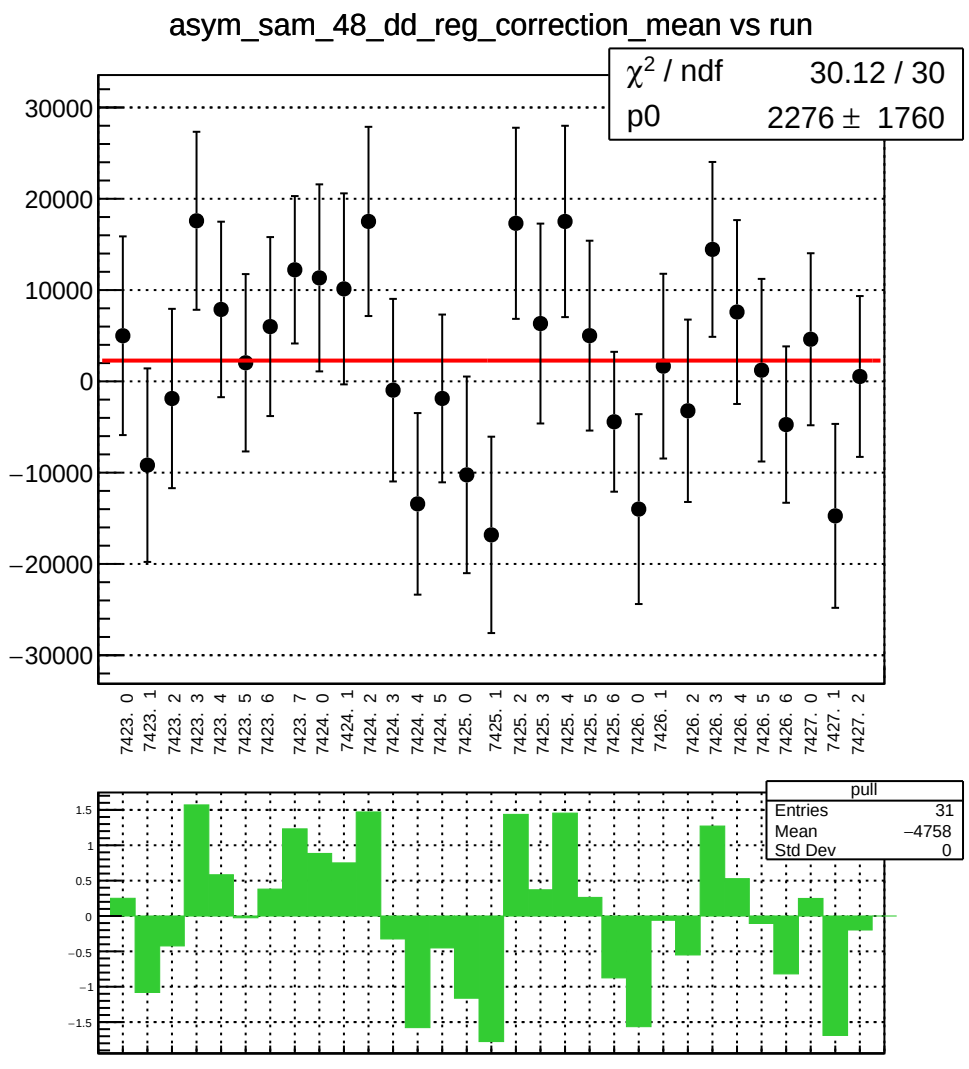

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.87 / 30
p0 −6.139e−16 ± 7.204e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 9.068
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.1001
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

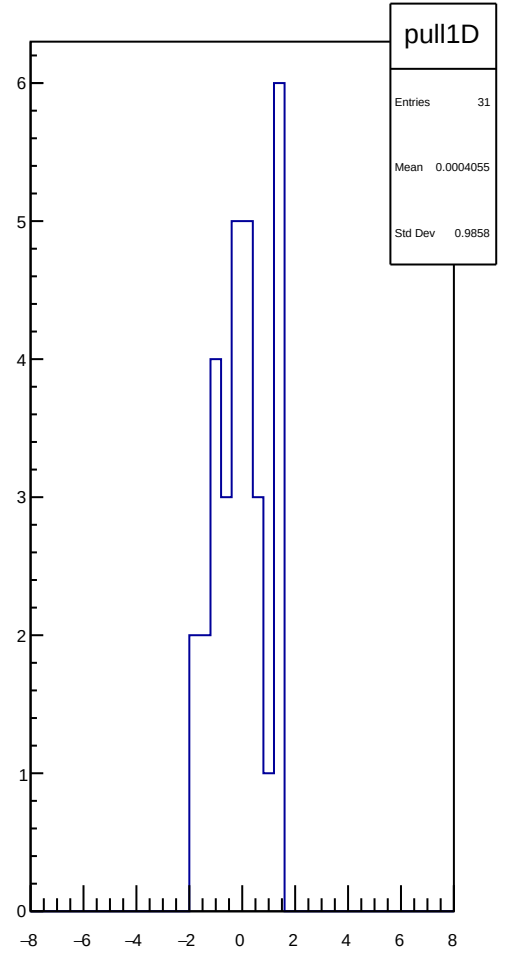

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.419e+05 / 30
p0 3.43e−12 ± 5.094e−15
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

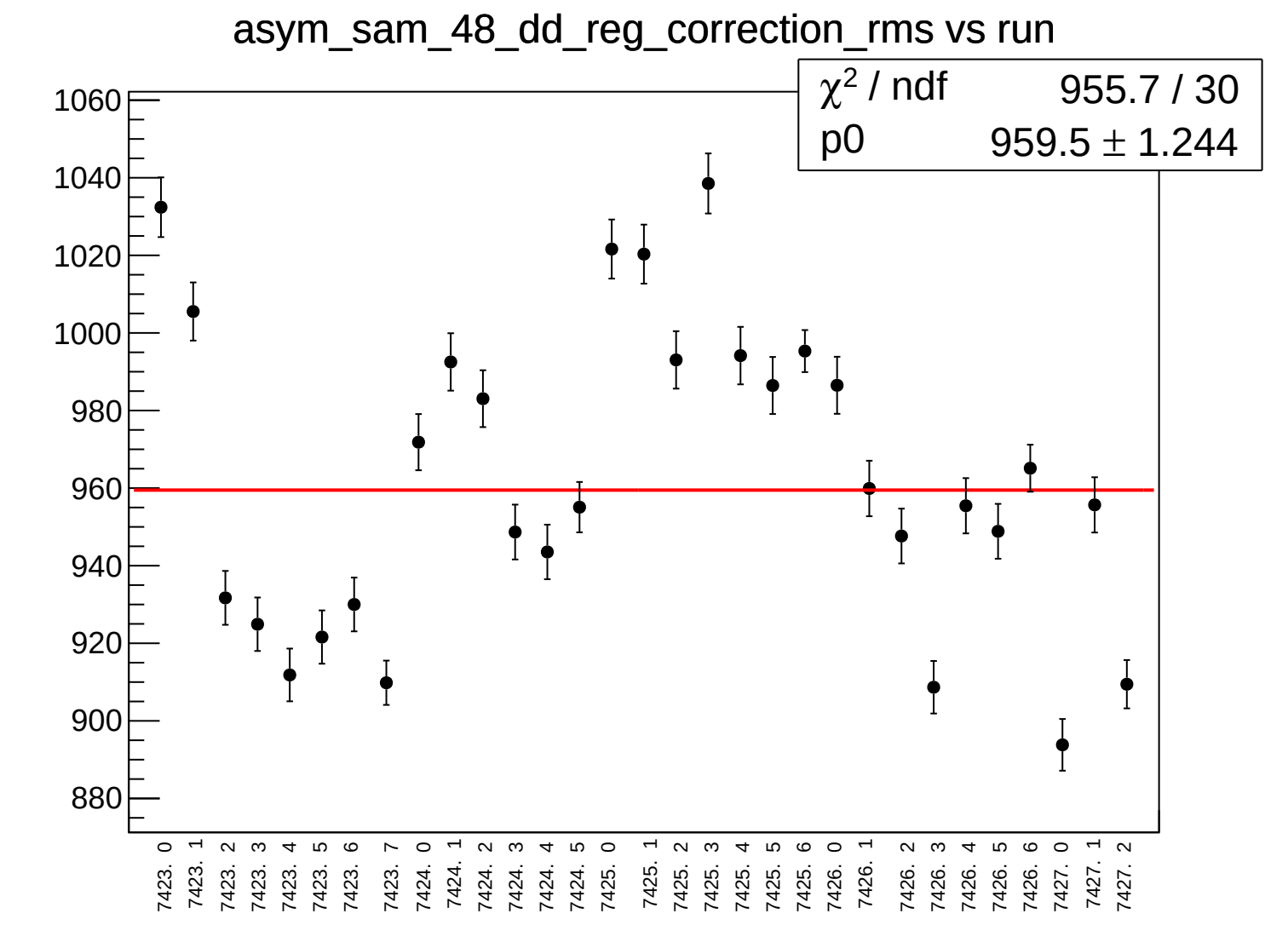

reg_asym_sam_48_dd_mean vs run
χ² / ndf 33.4 / 30
p0 −592.9 ± 318.8
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −211.4
Std Dev 0
1
0
−1
−2
−3

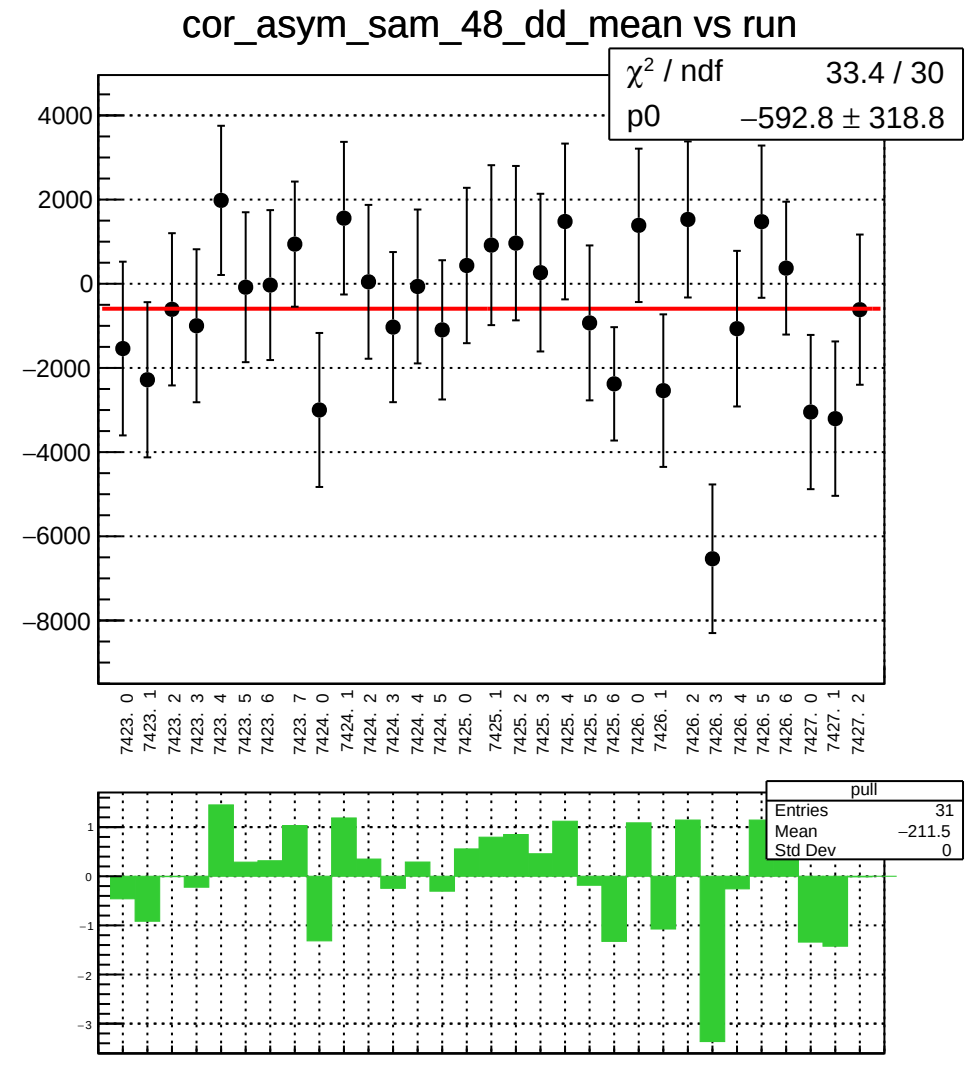

pull1D
Entries 31
Mean 0.007322
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

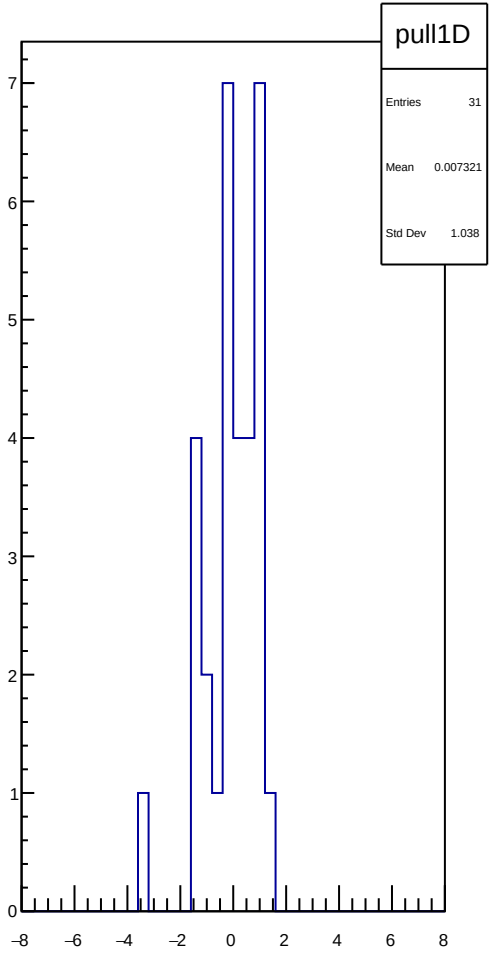

reg_asym_sam_48_dd_rms vs run
χ² / ndf 487.9 / 30
p0 173.9 ± 0.2254
200
195
190
185
180
175
170
165
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

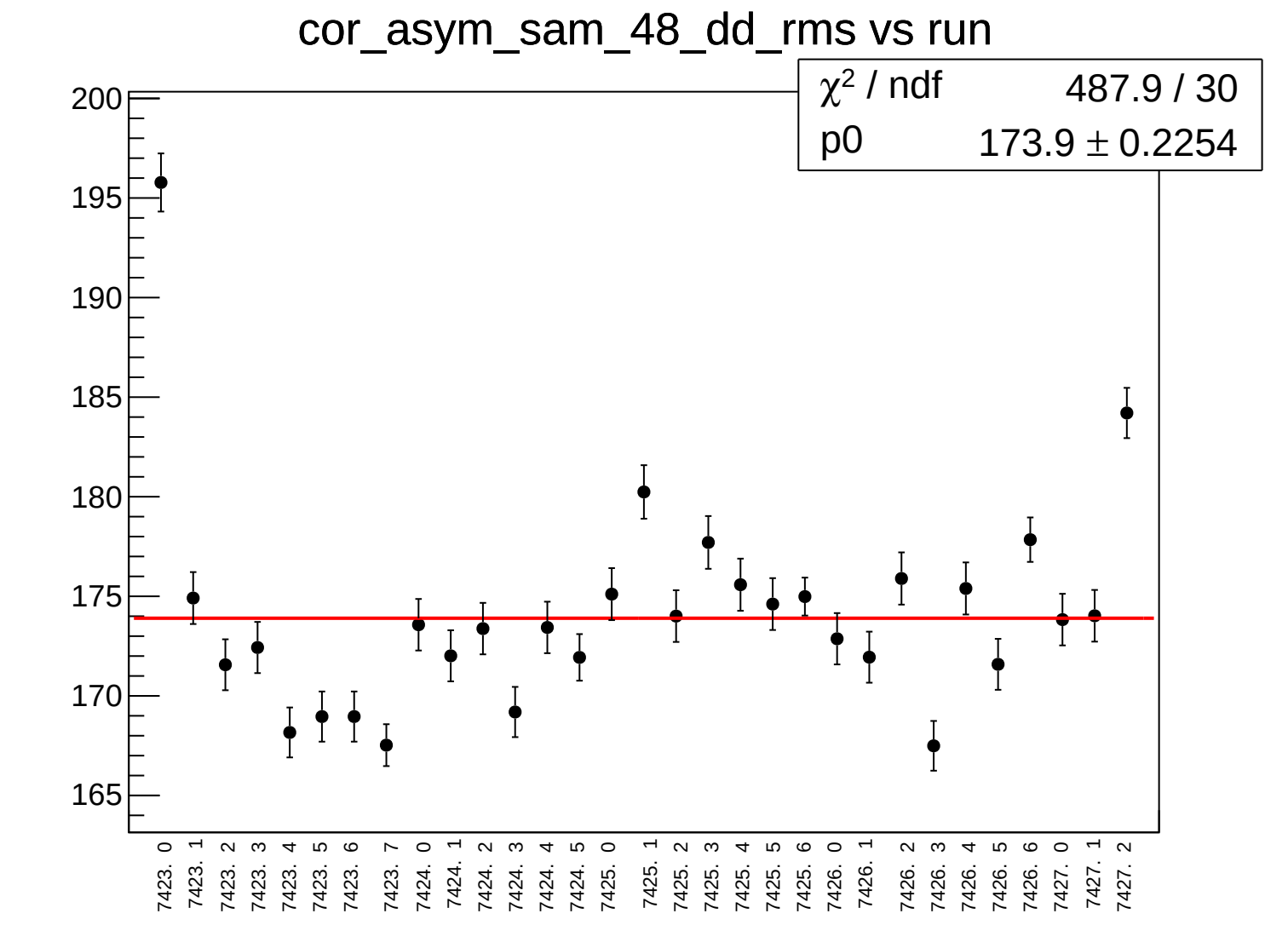

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 30.12 / 30
p0 2276 ± 1760
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −4758
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

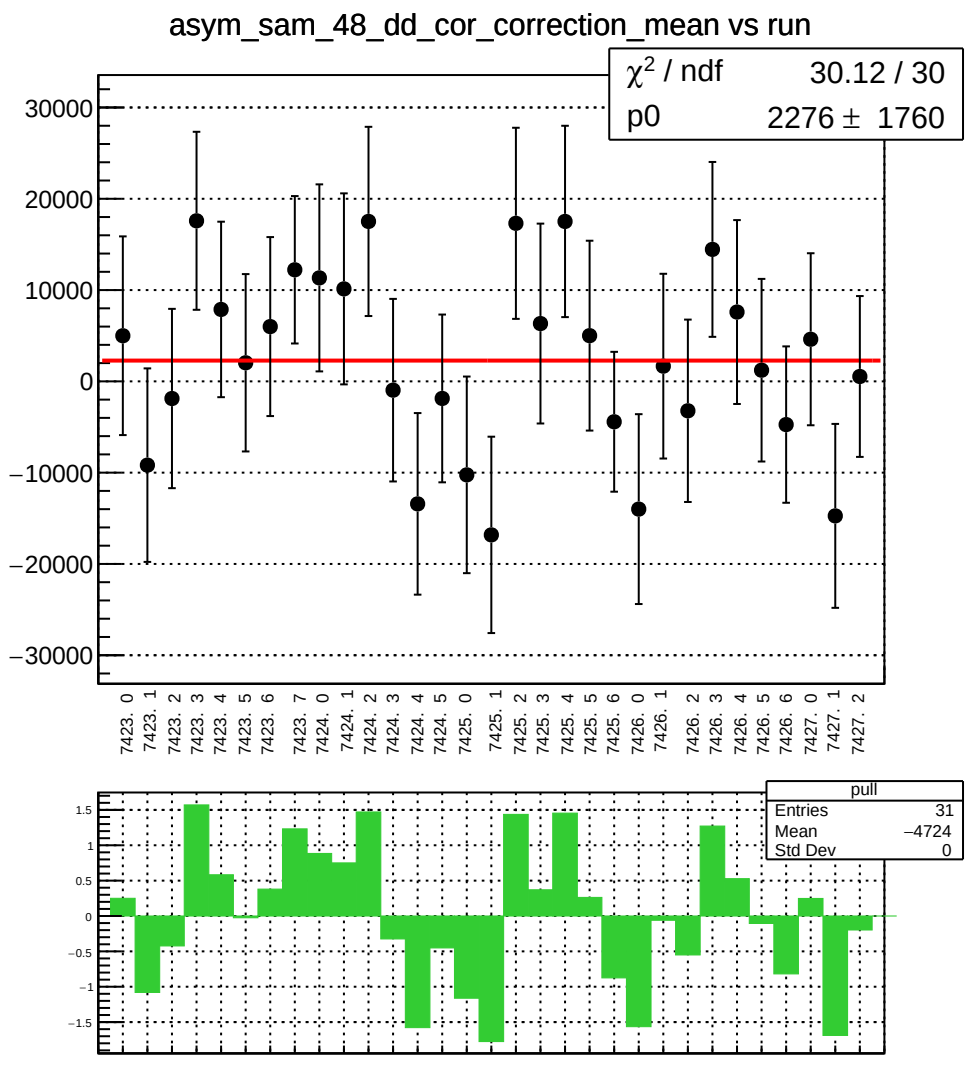

pull1D
Entries 31
Mean 0.0004055
Std Dev 0.9858
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

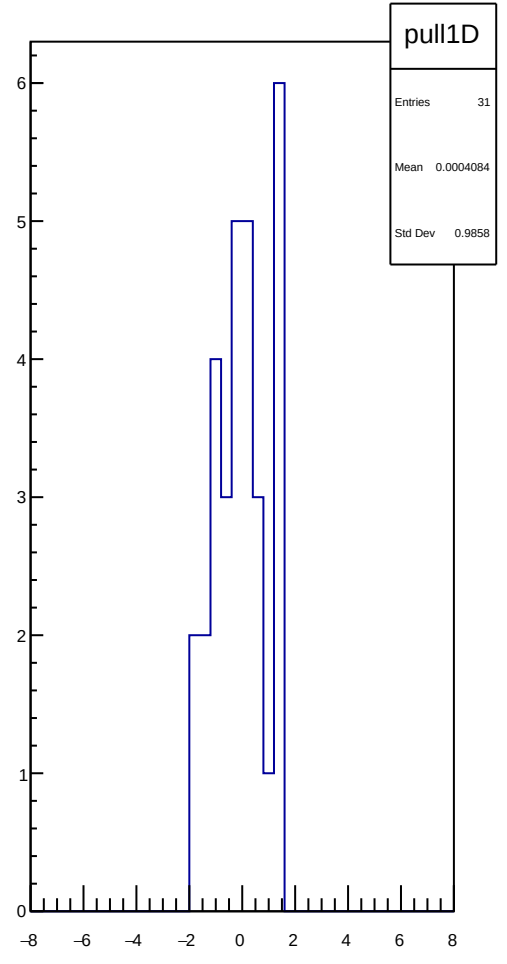

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 955.7 / 30
p0 959.5 ± 1.244
1060
1040
1020
1000
980
960
940
920
900
880
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

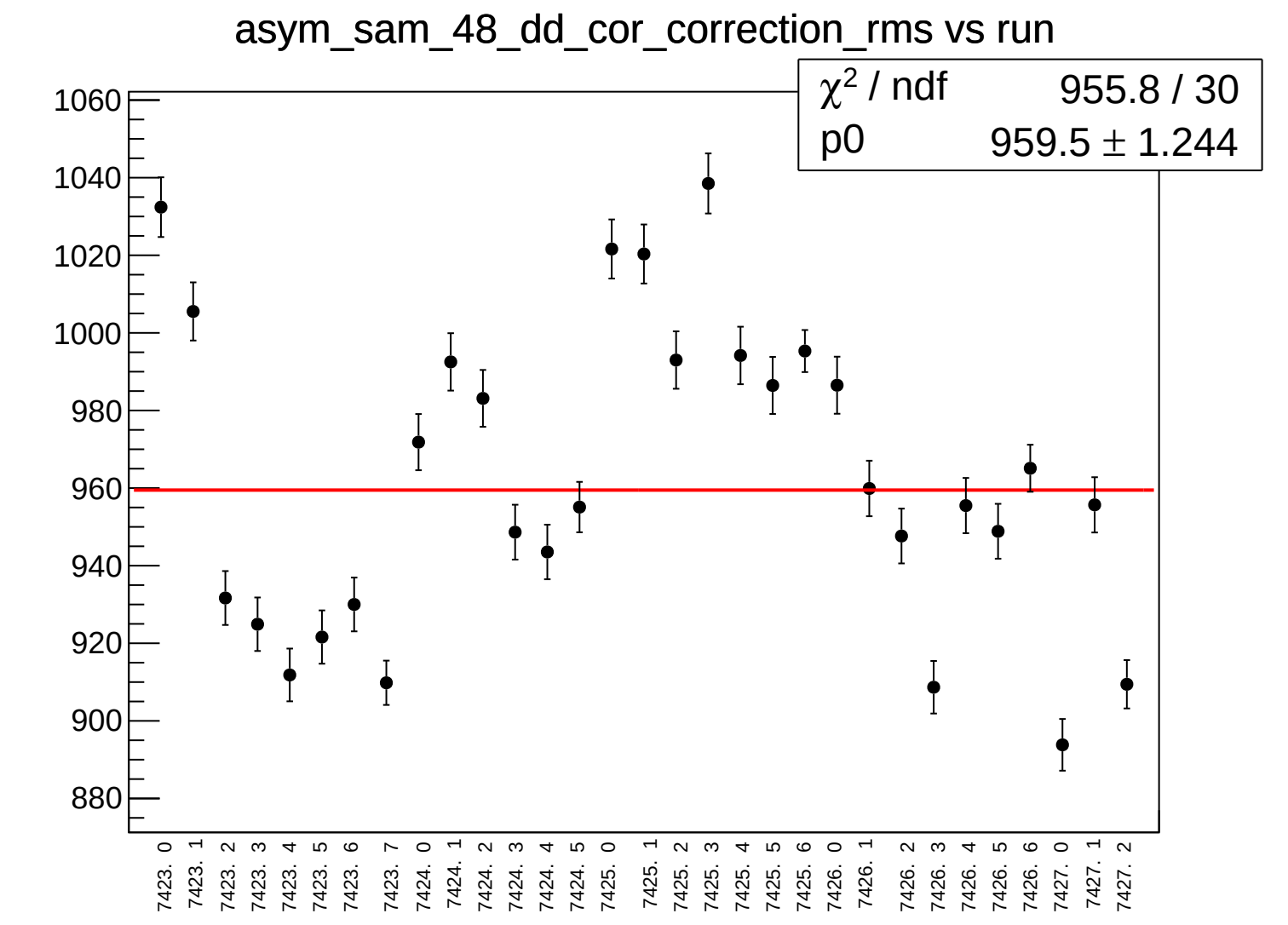

cor_asym_sam_48_dd_mean vs run
χ² / ndf 33.4 / 30
p0 −592.8 ± 318.8
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −211.5
Std Dev 0
1
0
−1
−2
−3

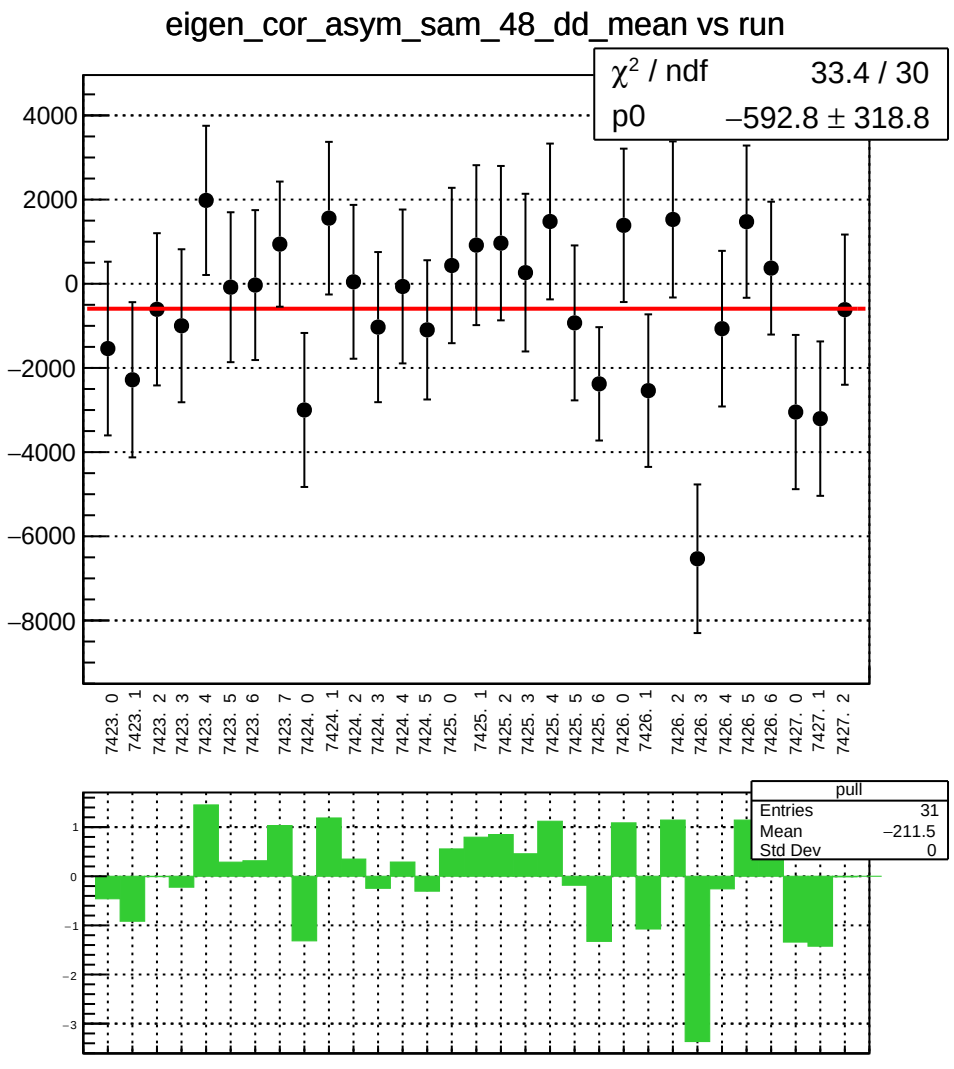

pull1D
Entries 31
Mean 0.007321
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

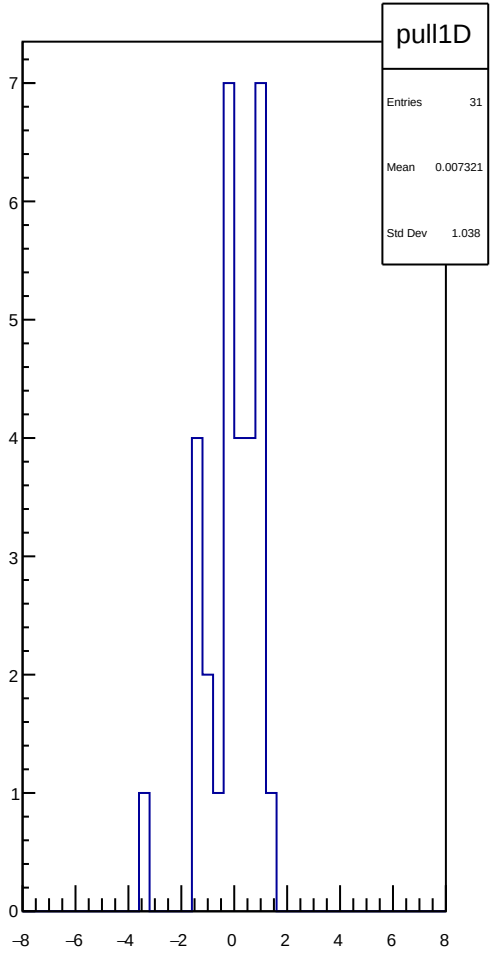

cor_asym_sam_48_dd_rms vs run
χ² / ndf 487.9 / 30
p0 173.9 ± 0.2254
200
195
190
185
180
175
170
165
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

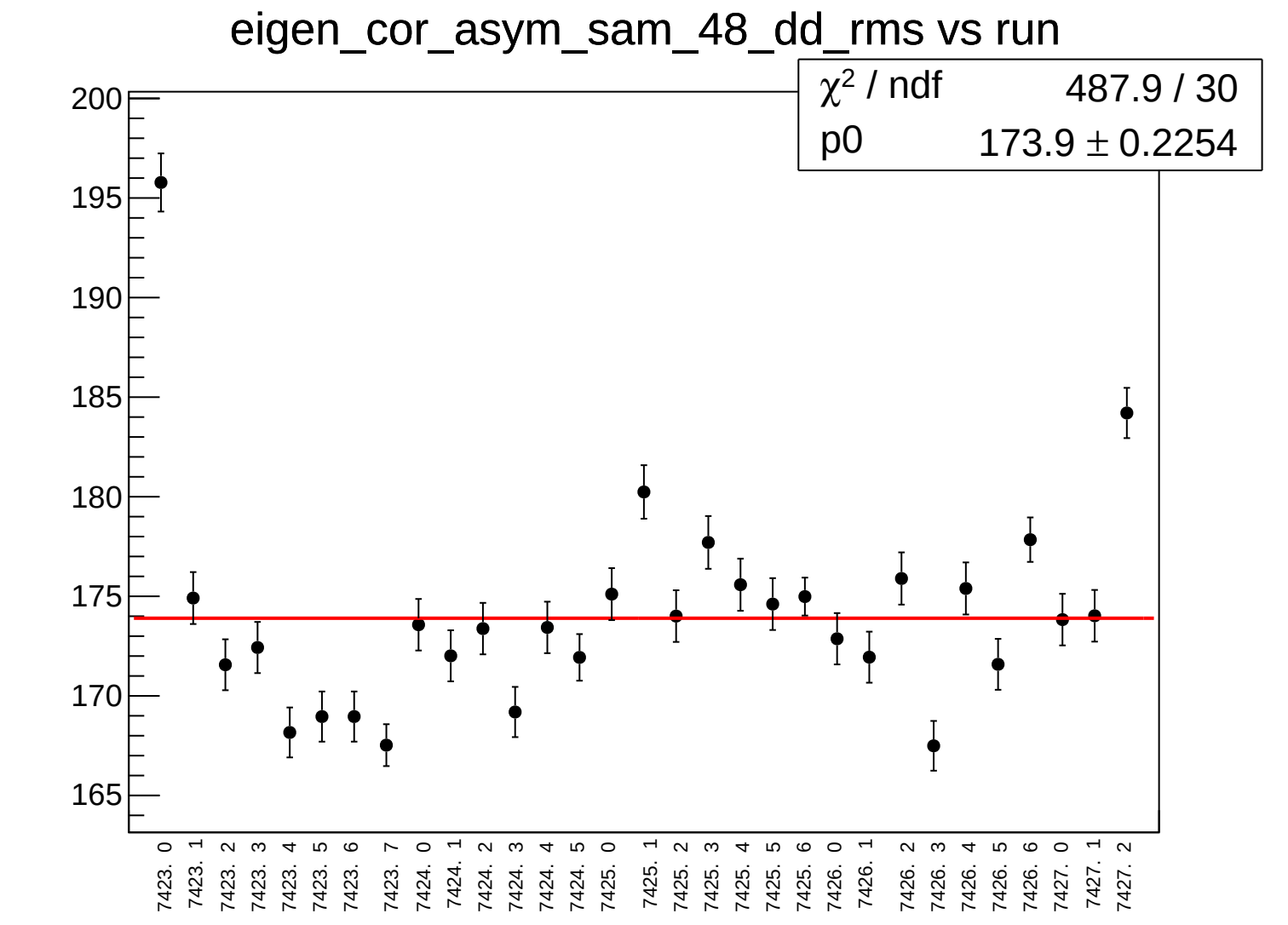

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 30.12 / 30
p0 2276 ± 1760
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −4724
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

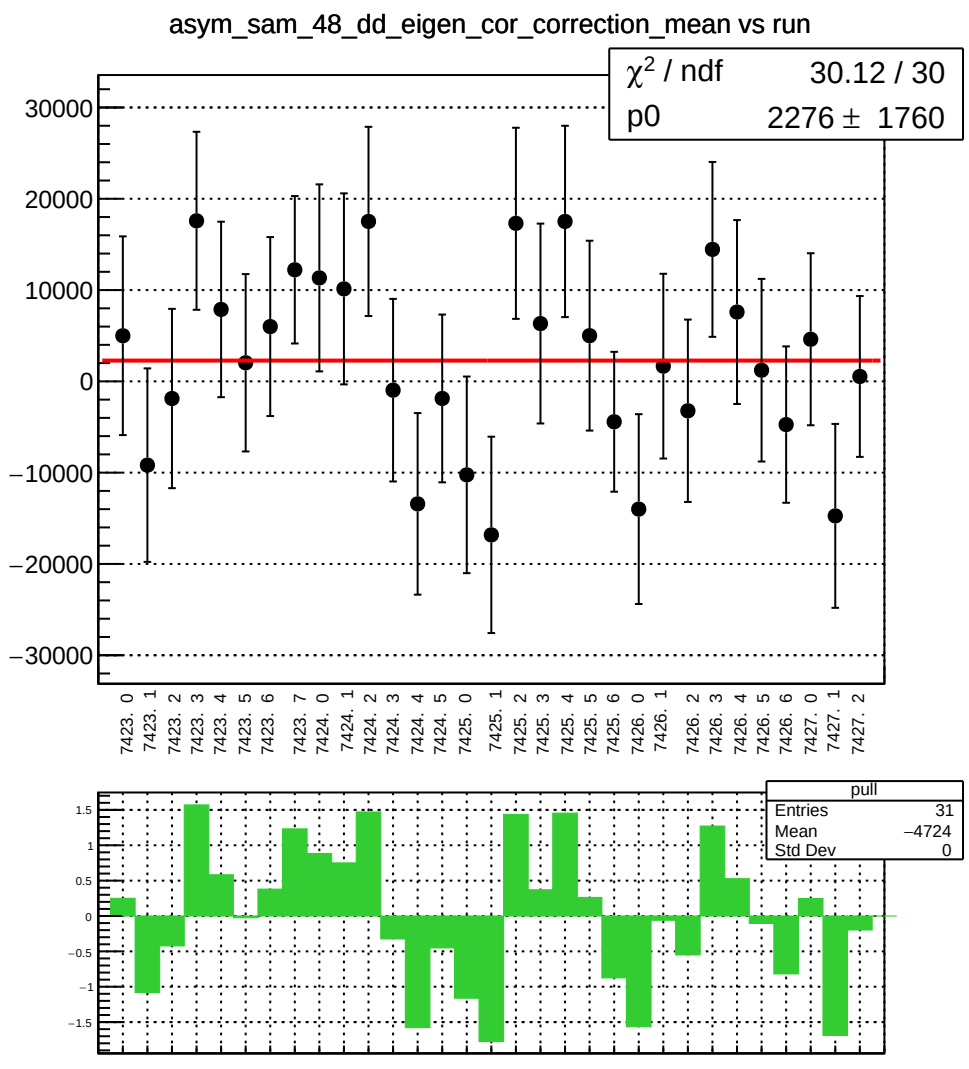

pull1D
Entries 31
Mean 0.0004084
Std Dev 0.9858
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

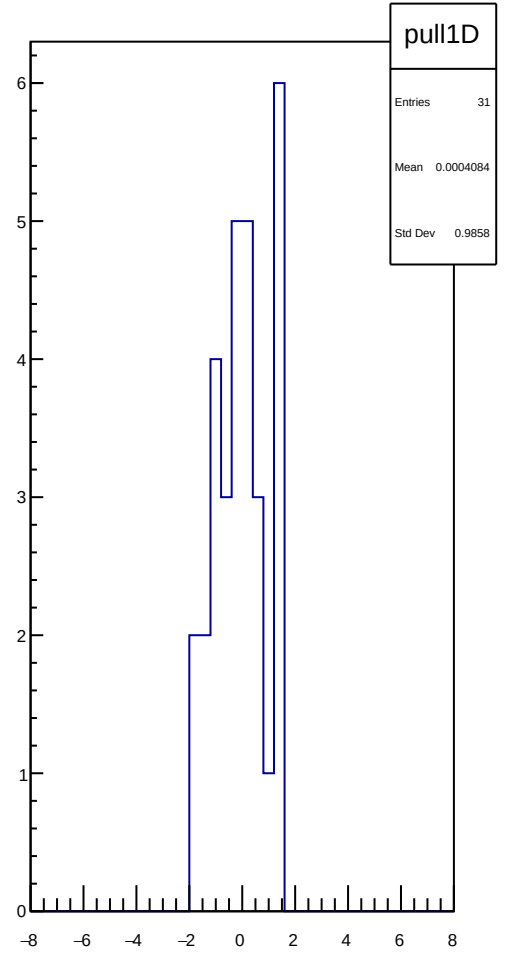

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 955.8 / 30
p0 959.5 ± 1.244
1060
1040
1020
1000
980
960
940
920
900
880
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

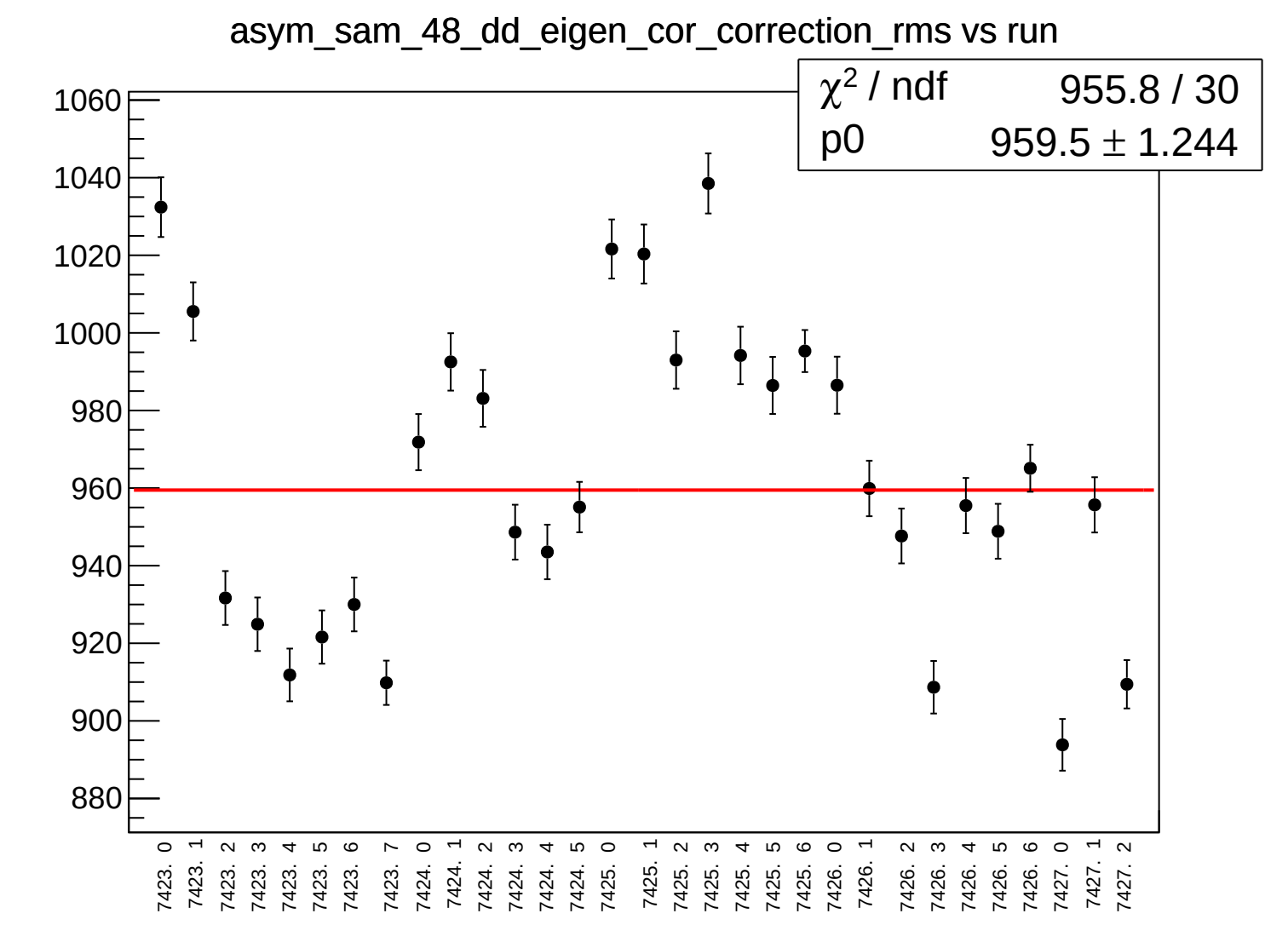

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 33.4 / 30
p0 −592.8 ± 318.8
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −211.5
Std Dev 0
1
0
−1
−2
−3

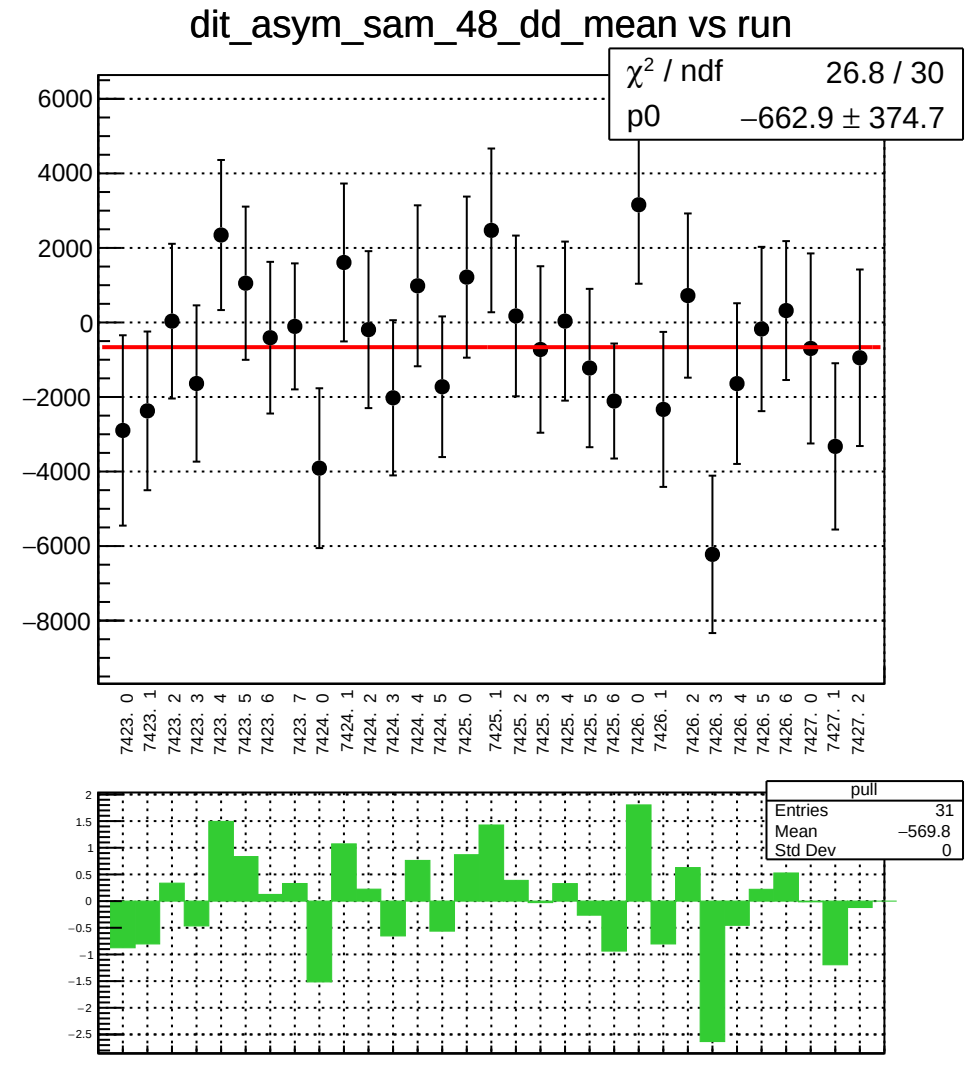

pull1D
Entries 31
Mean 0.007321
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

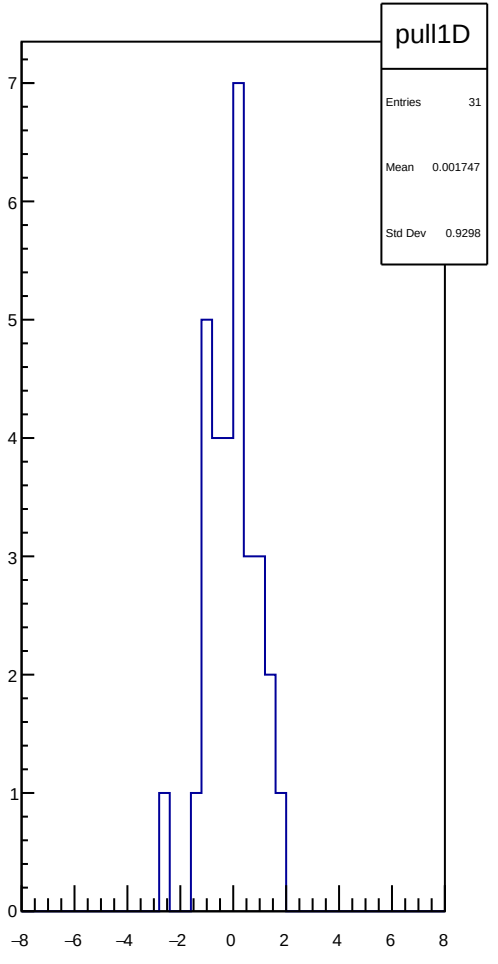

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 487.9 / 30
p0 173.9 ± 0.2254
200
195
190
185
180
175
170
165
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

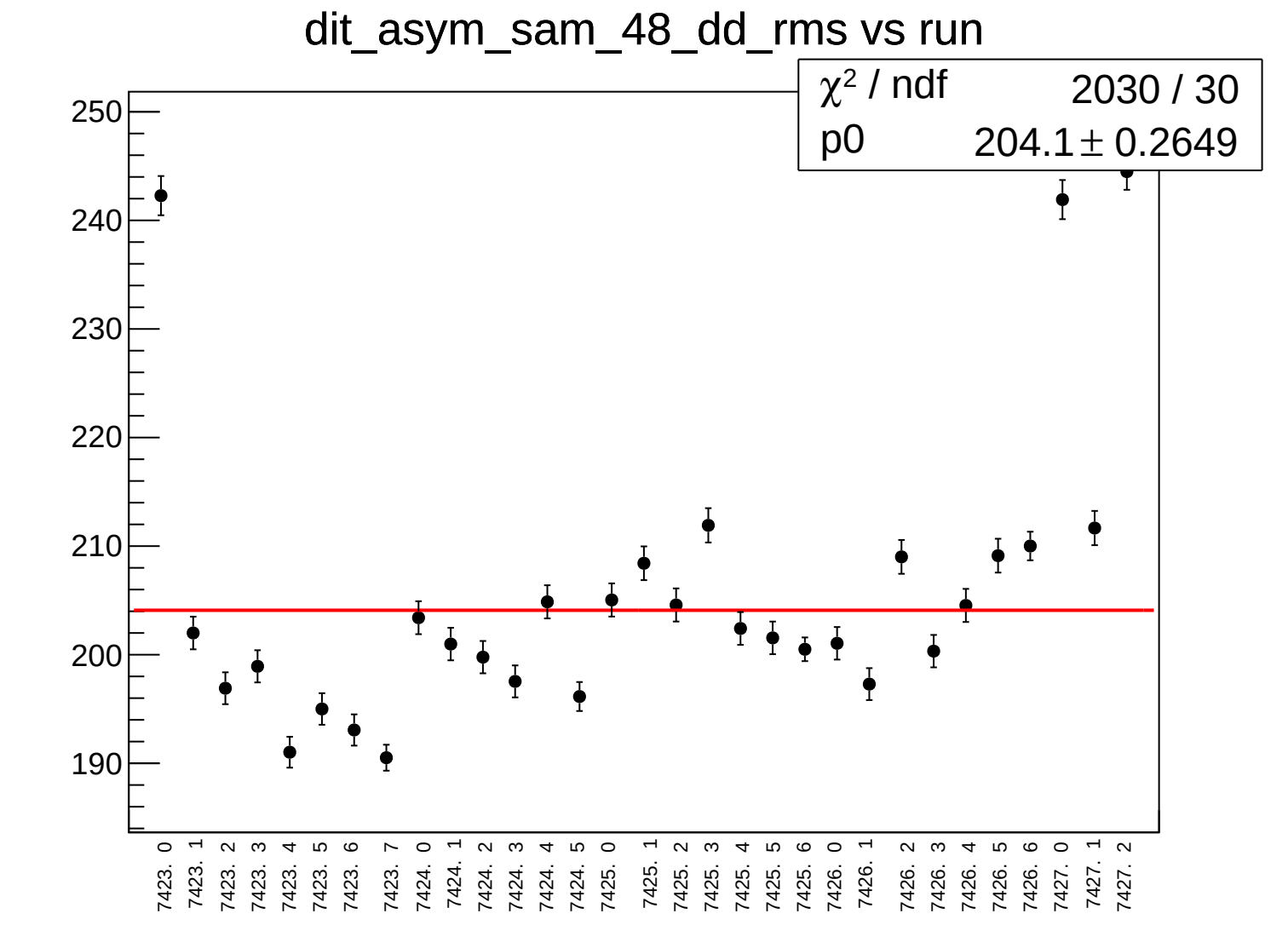

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 30.12 / 30
p0 2276 ± 1760
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −4724
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

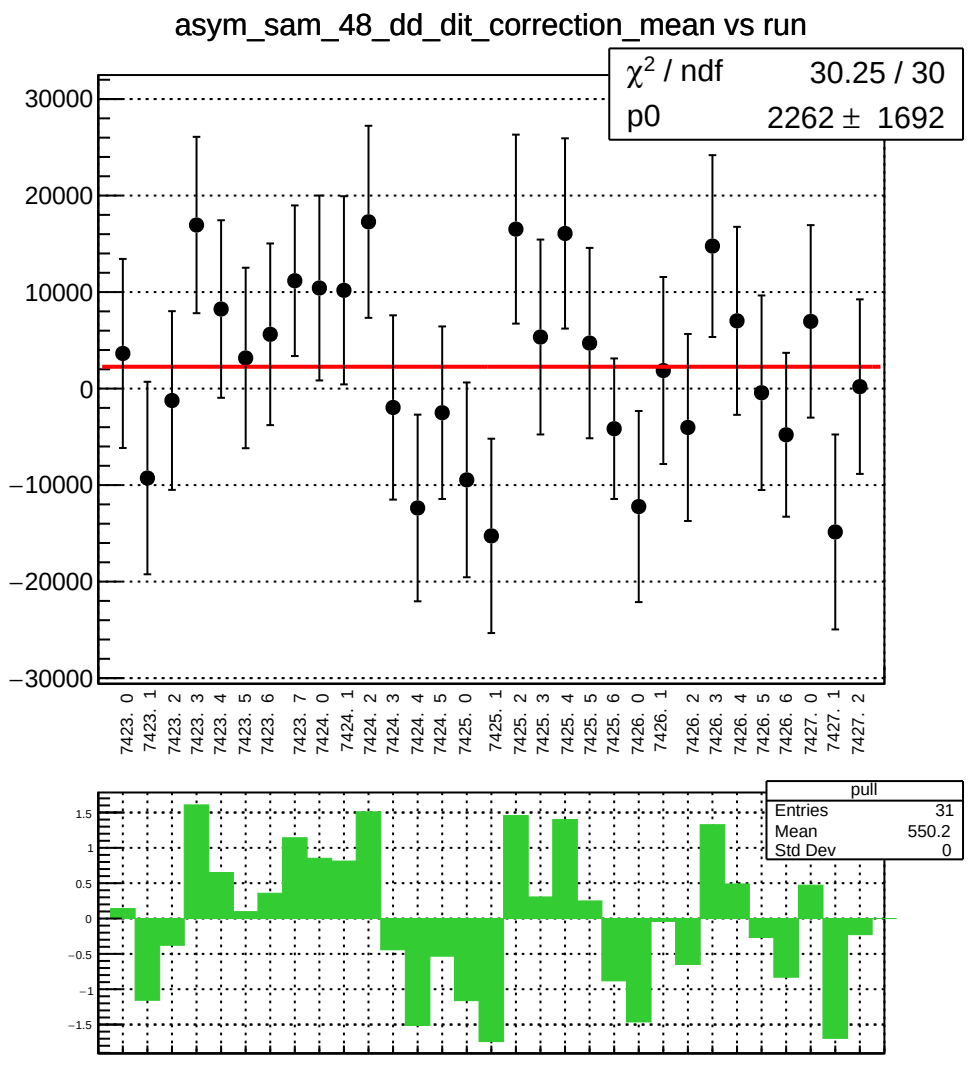

pull1D
Entries 31
Mean 0.0004084
Std Dev 0.9858
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

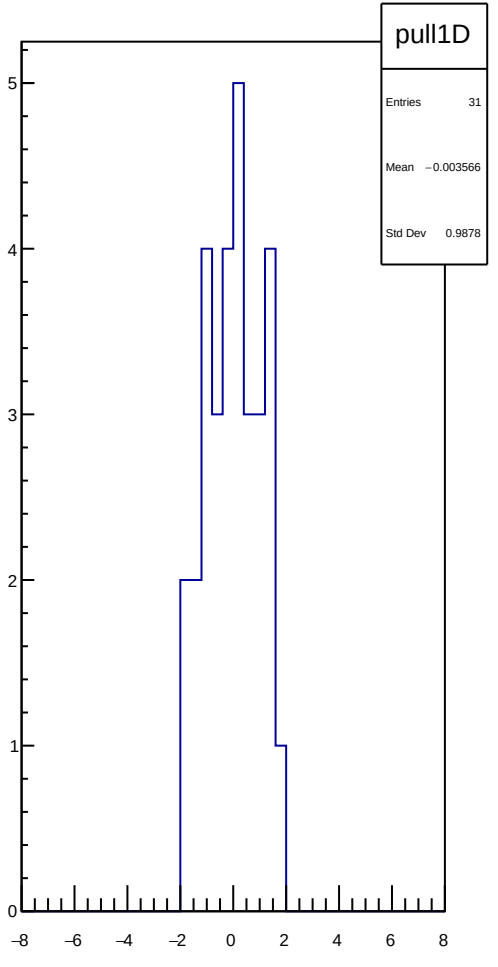

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 955.8 / 30
p0 959.5 ± 1.244
1060
1040
1020
1000
980
960
940
920
900
880
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

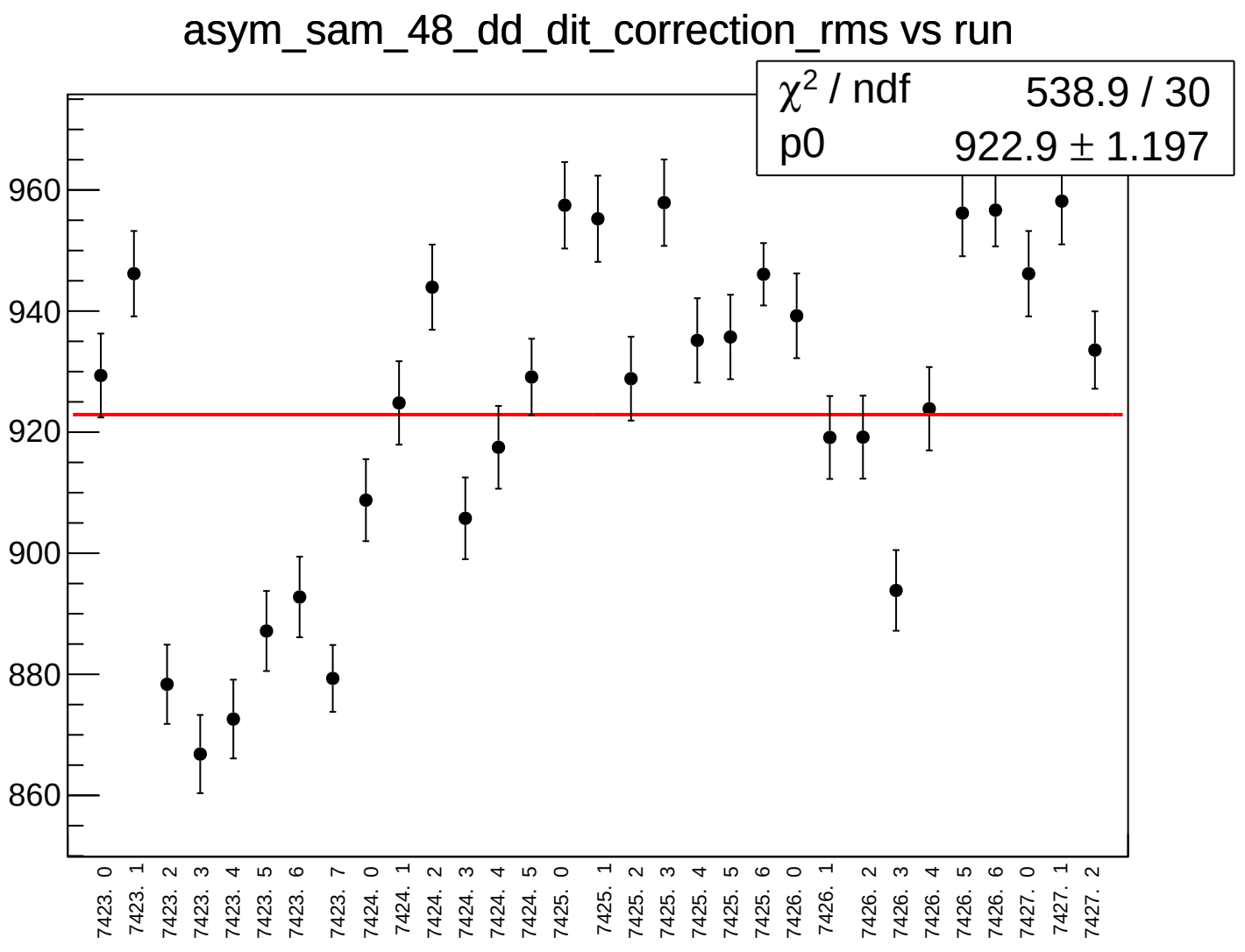

dit_asym_sam_48_dd_mean vs run
χ² / ndf 26.8 / 30
p0 −662.9 ± 374.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −569.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

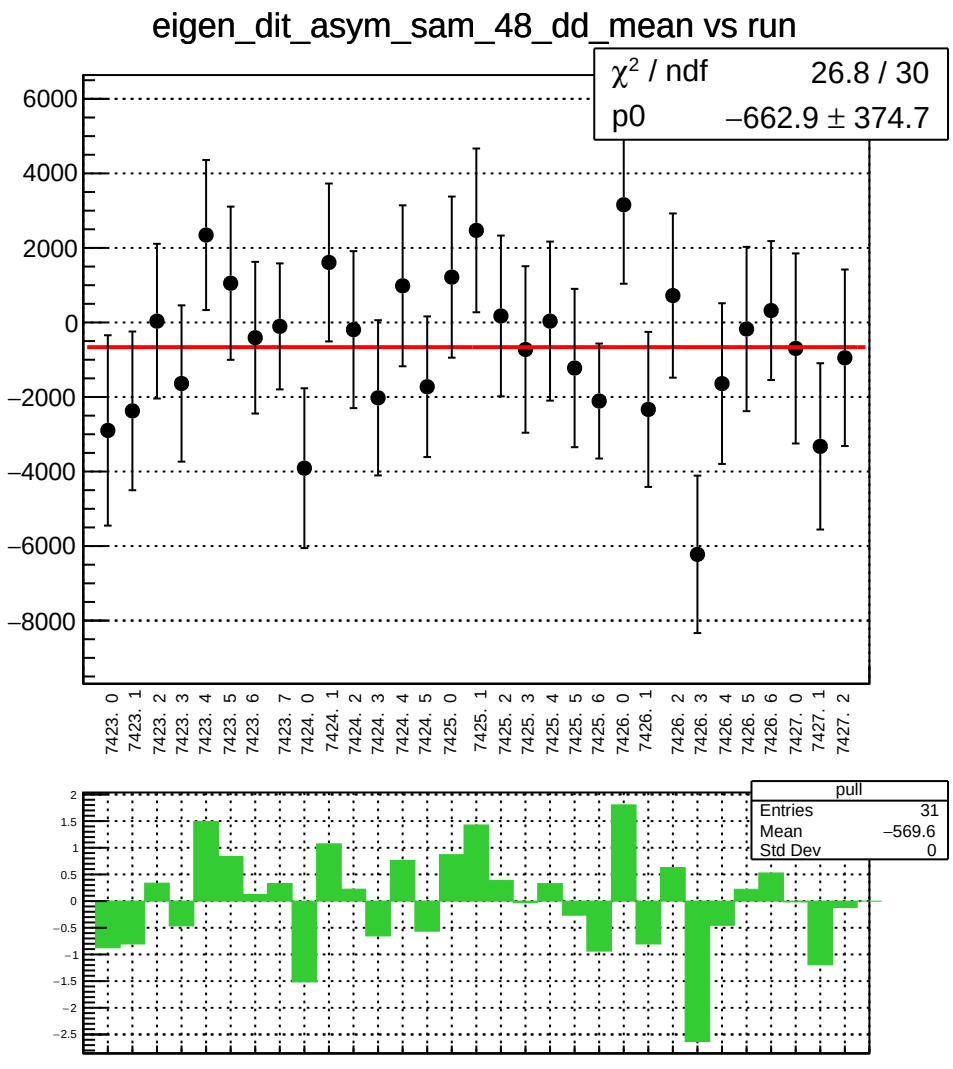

pull1D
Entries 31
Mean 0.001747
Std Dev 0.9298
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

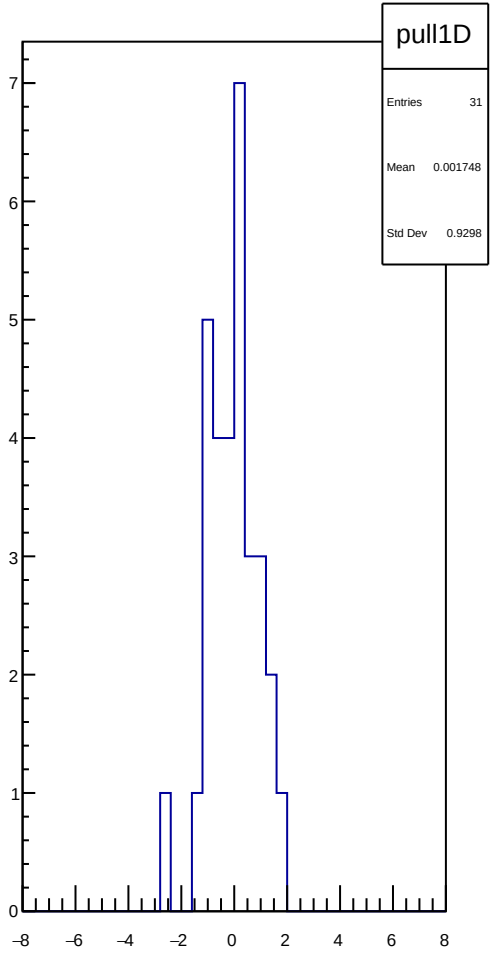

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2030 / 30
p0 204.1 ± 0.2649
250
240
230
220
210
200
190
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

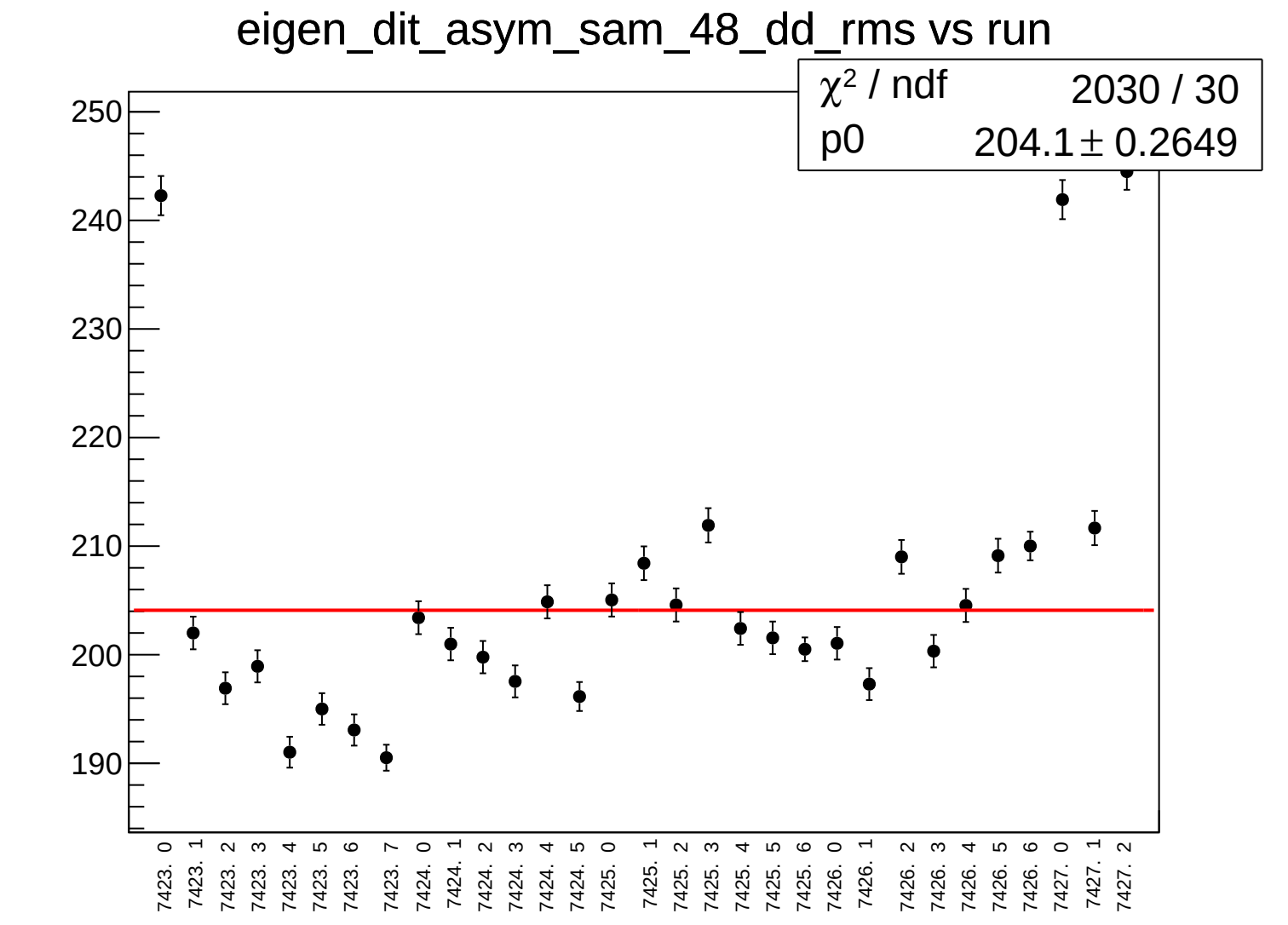

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 30.25 / 30
p0 2262 ± 1692
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 550.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

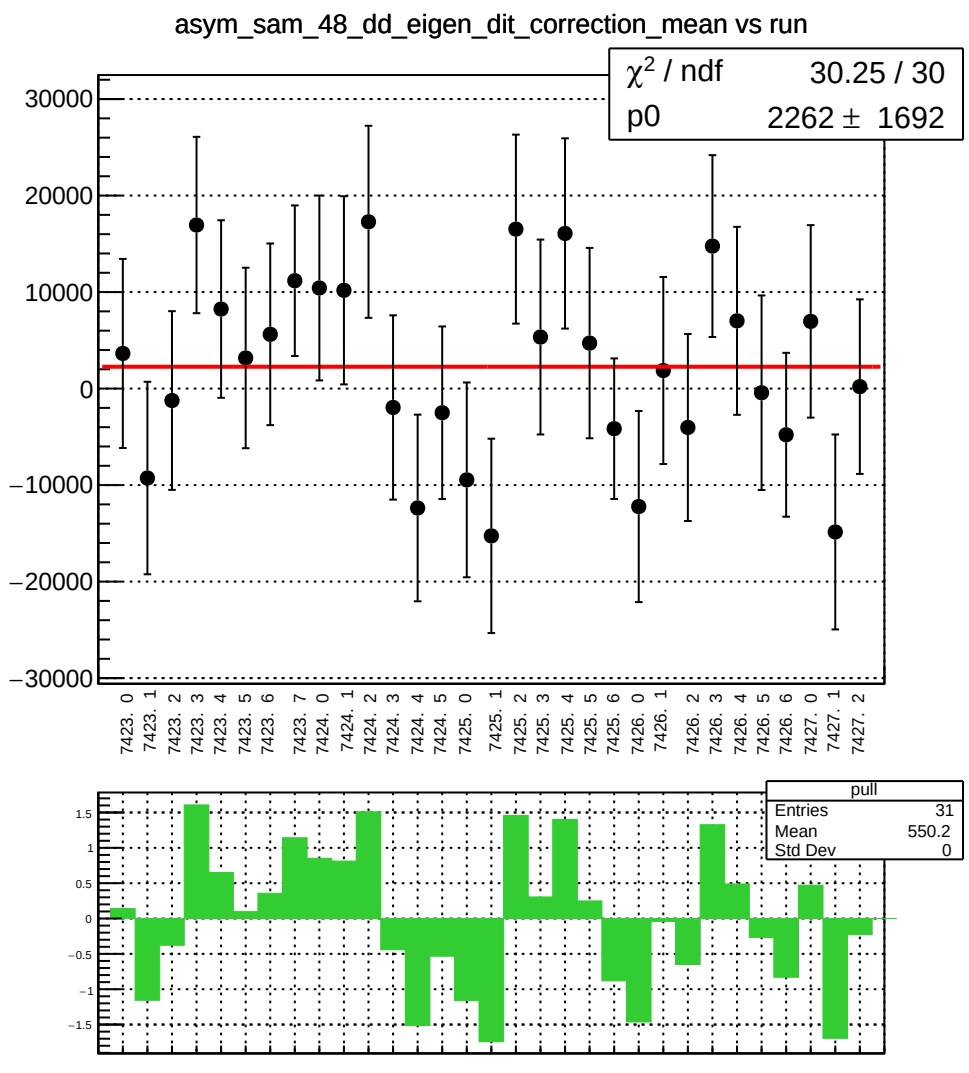

pull1D
Entries 31
Mean −0.003566
Std Dev 0.9878
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

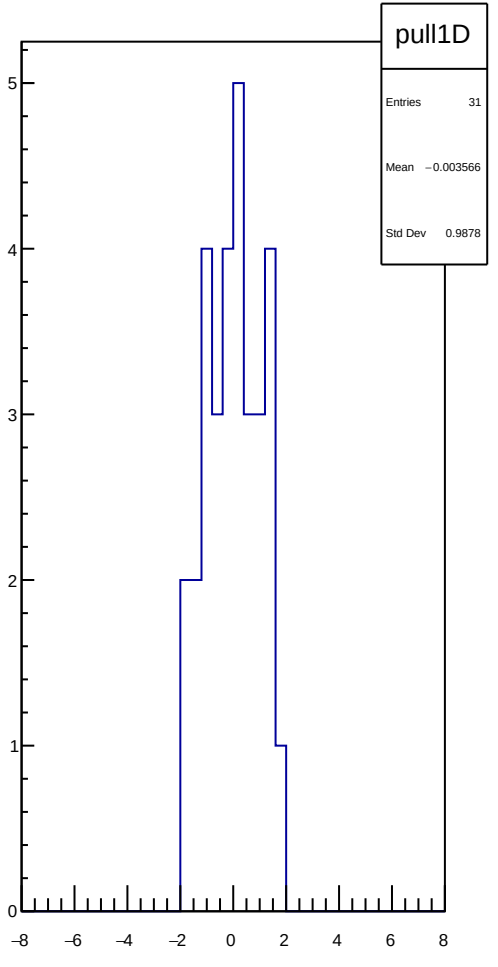

asym_sam_48_dd_dit_correction_rms vs run
χ^2 / ndf 538.9 / 30
p0 922.9 ± 1.197
960
940
920
900
880
860
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

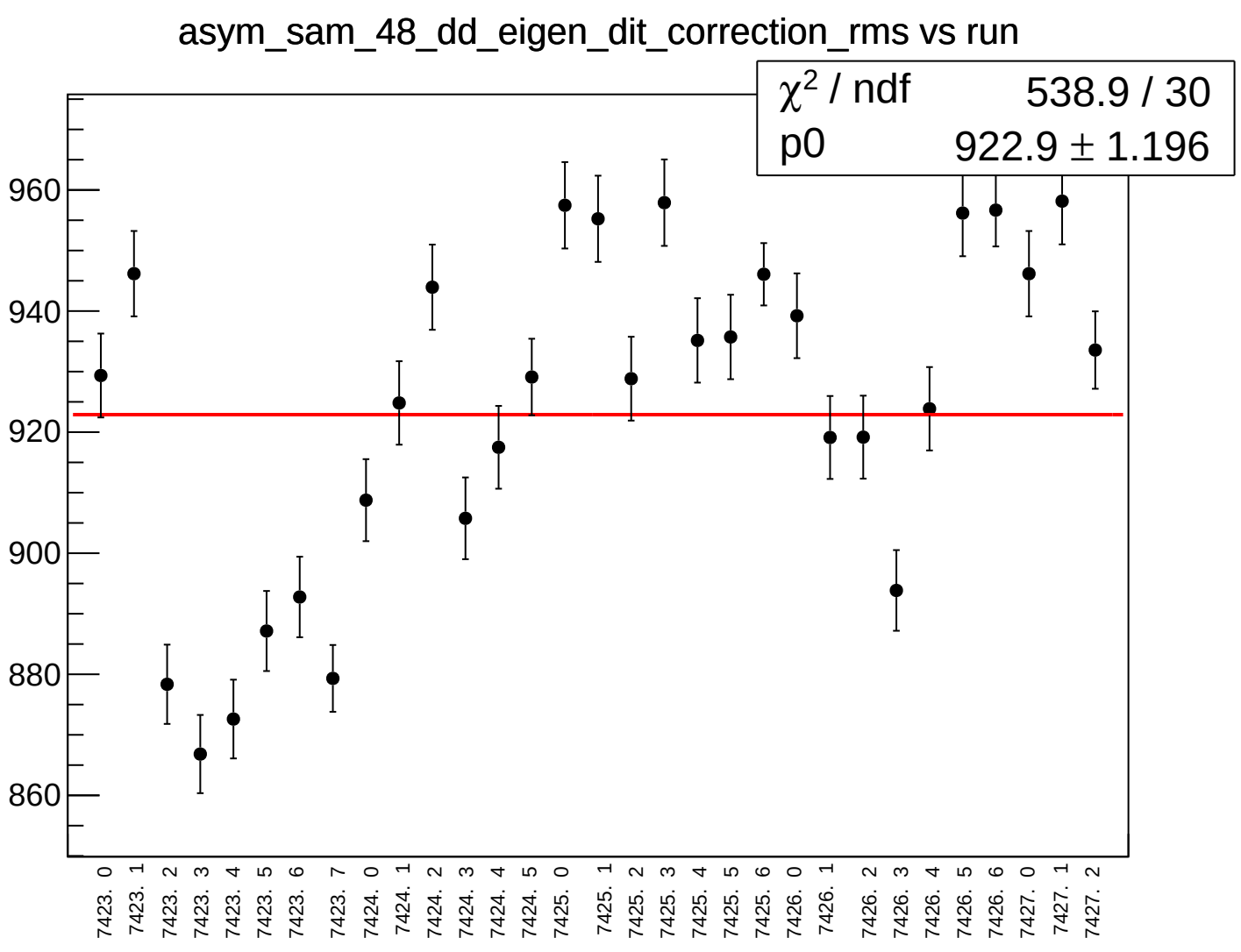

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 26.8 / 30
p0 −662.9 ± 374.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −569.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

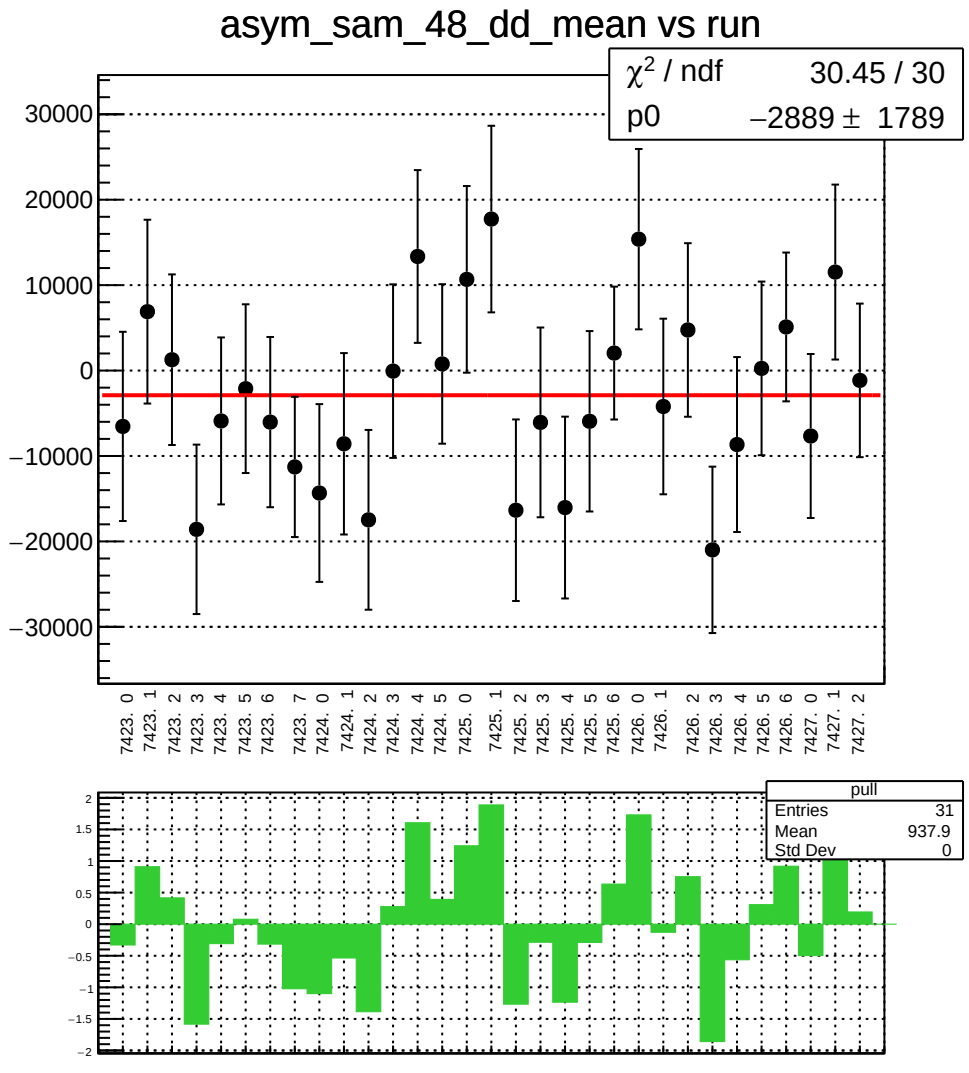

pull1D
Entries 31
Mean 0.001748
Std Dev 0.9298
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

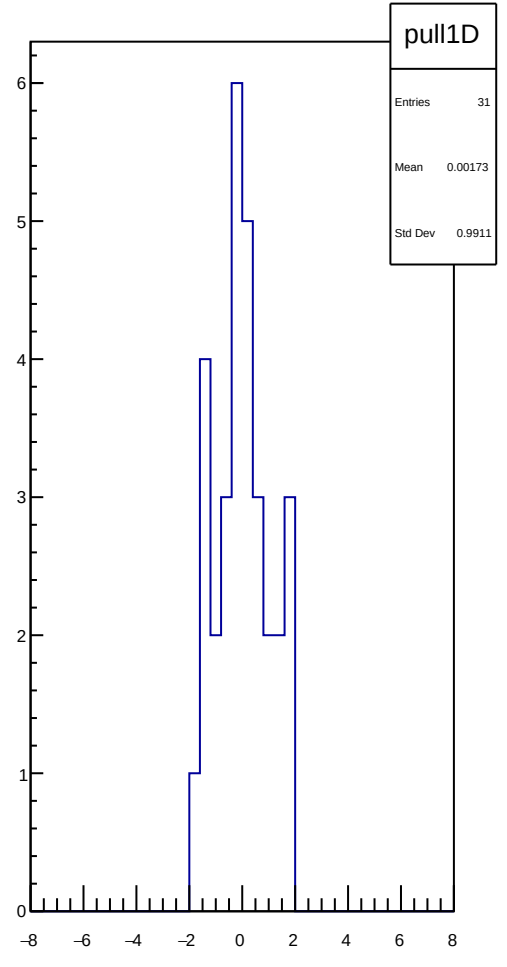

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 2030 / 30
p0 204.1 ± 0.2649
250
240
230
220
210
200
190
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

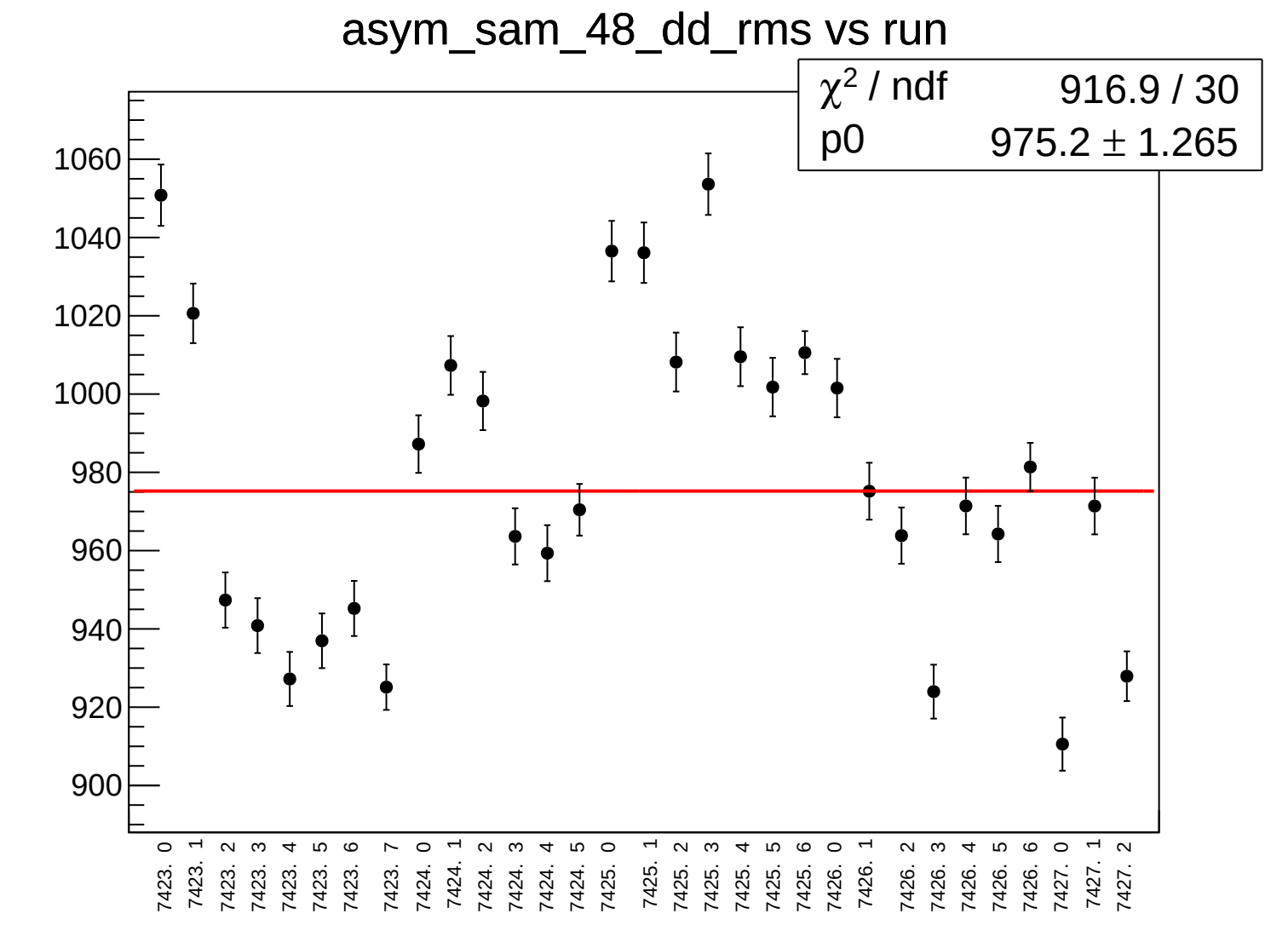

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 30.25 / 30
p0 2262 ± 1692
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 550.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

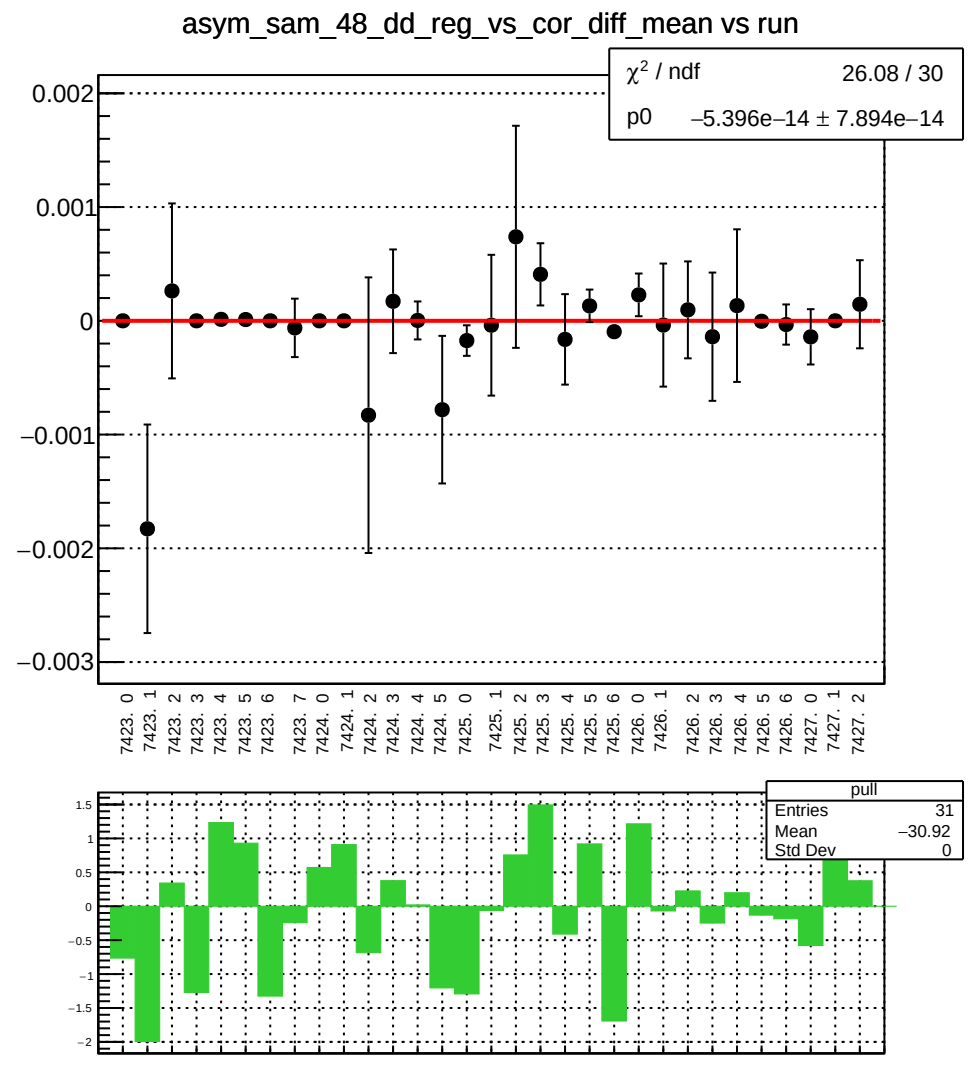

pull1D
Entries 31
Mean −0.003566
Std Dev 0.9878
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

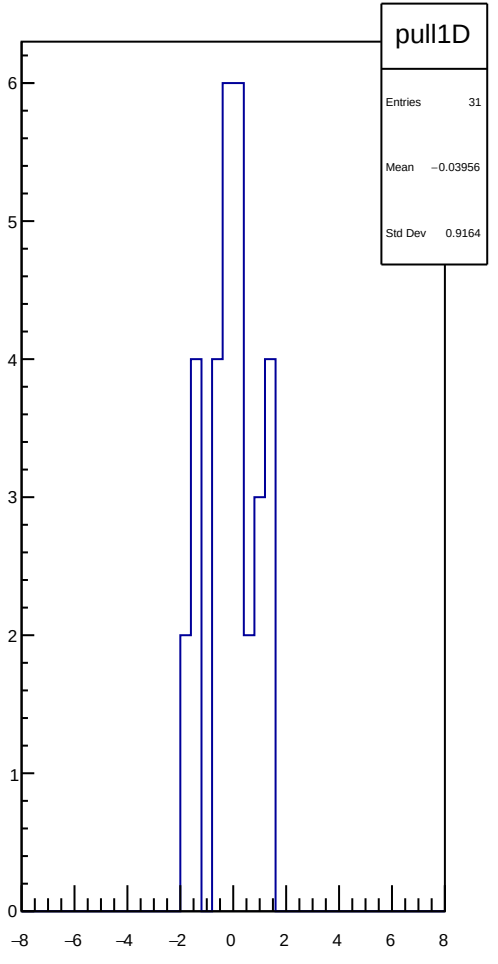

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 538.9 / 30
p0 922.9 ± 1.196
960
940
920
900
880
860
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

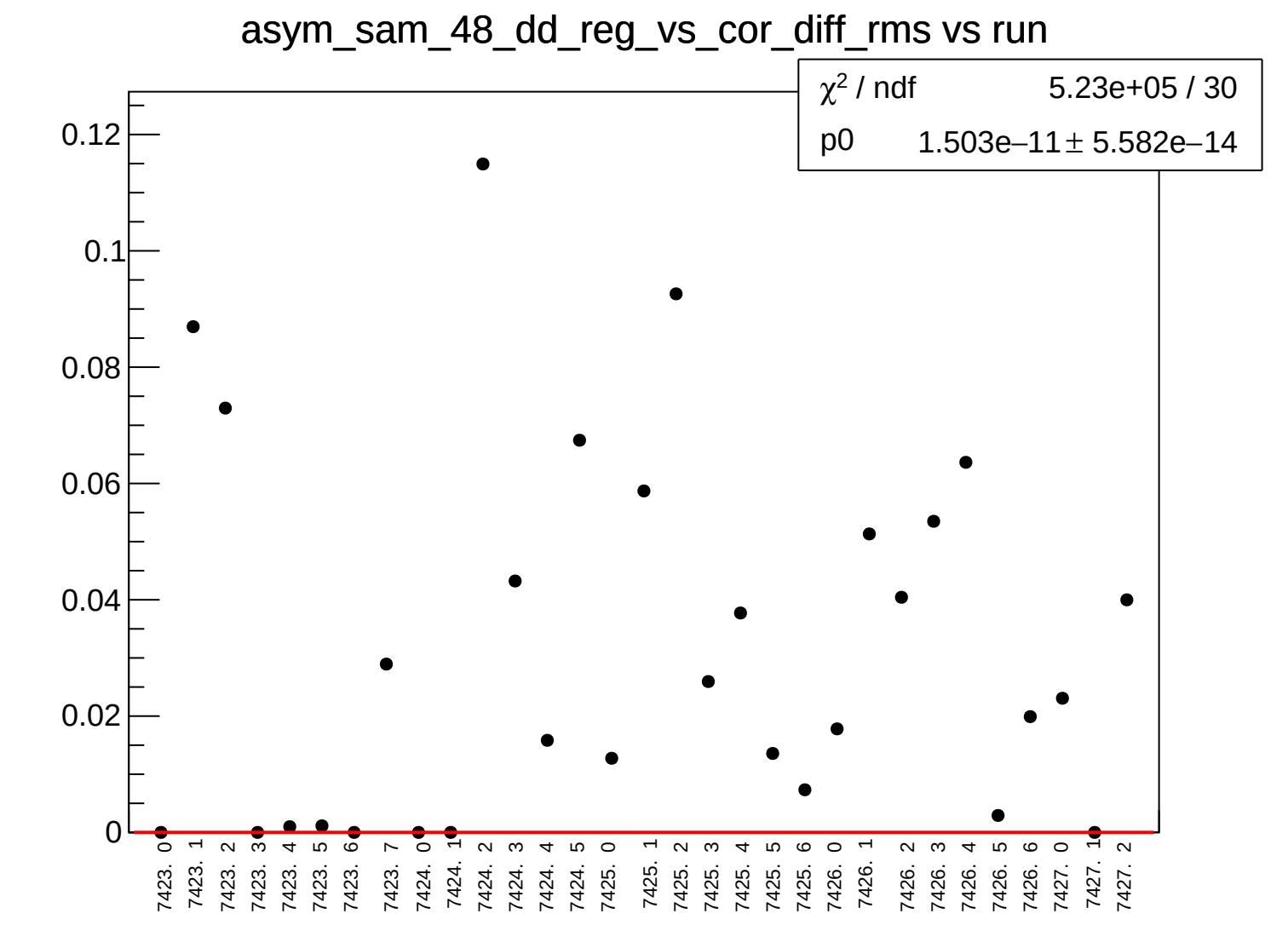

asym_sam_48_dd_mean vs run
χ² / ndf 30.45 / 30
p0 −2889 ± 1789
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 937.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

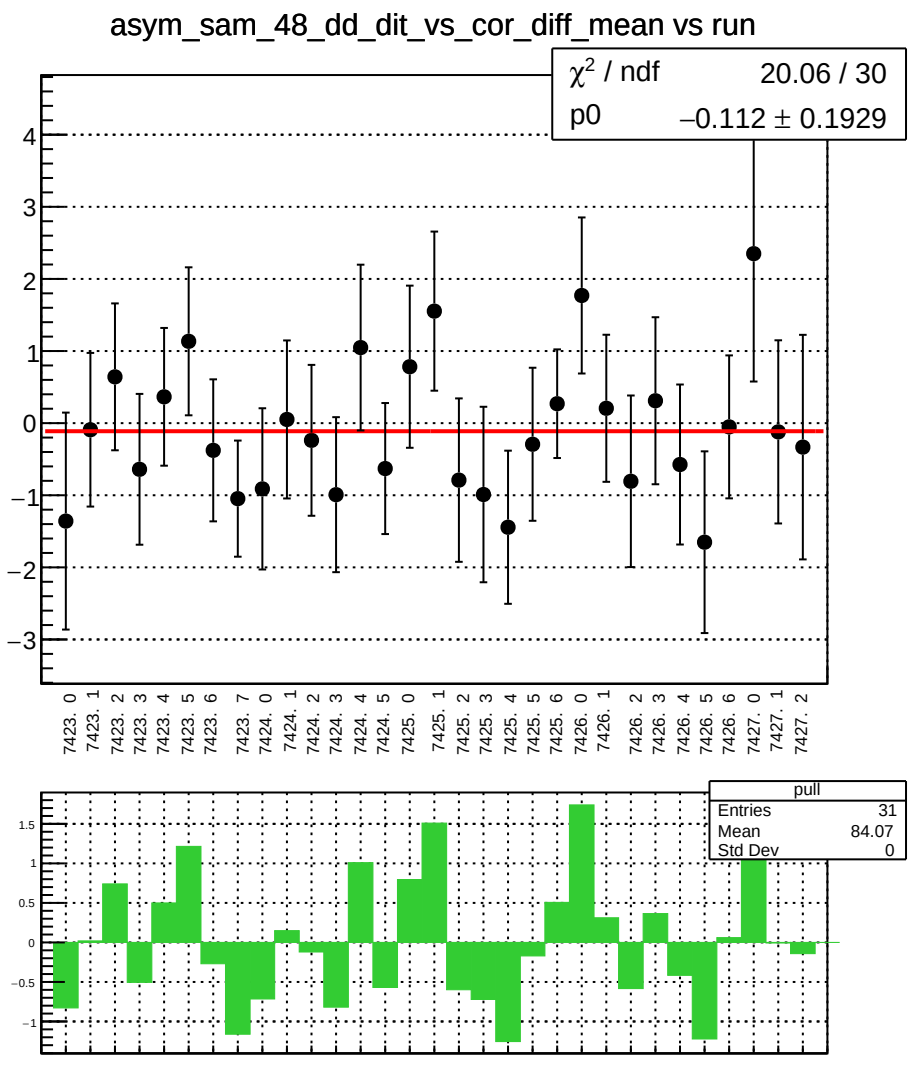

pull1D
Entries 31
Mean 0.00173
Std Dev 0.9911
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

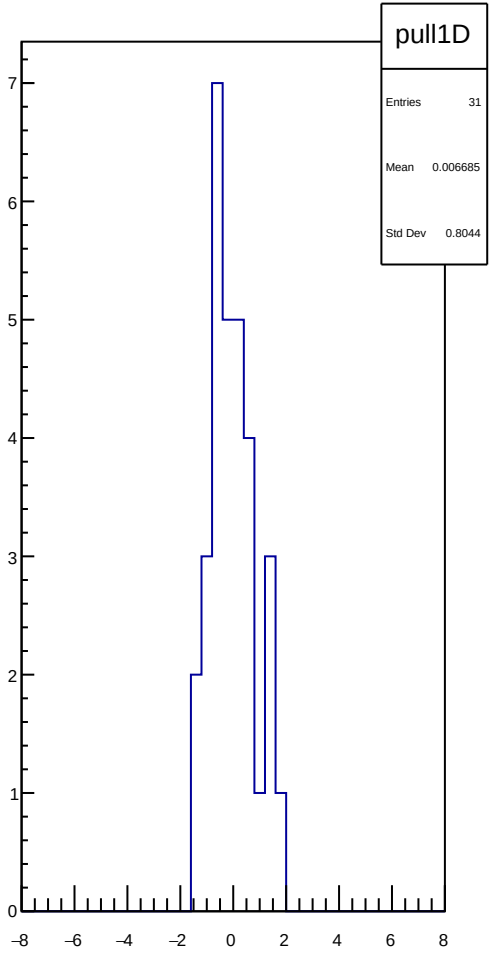

asym_sam_48_dd_rms vs run
χ^2 / ndf 916.9 / 30
p0 975.2 ± 1.265
1060
1040
1020
1000
980
960
940
920
900
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

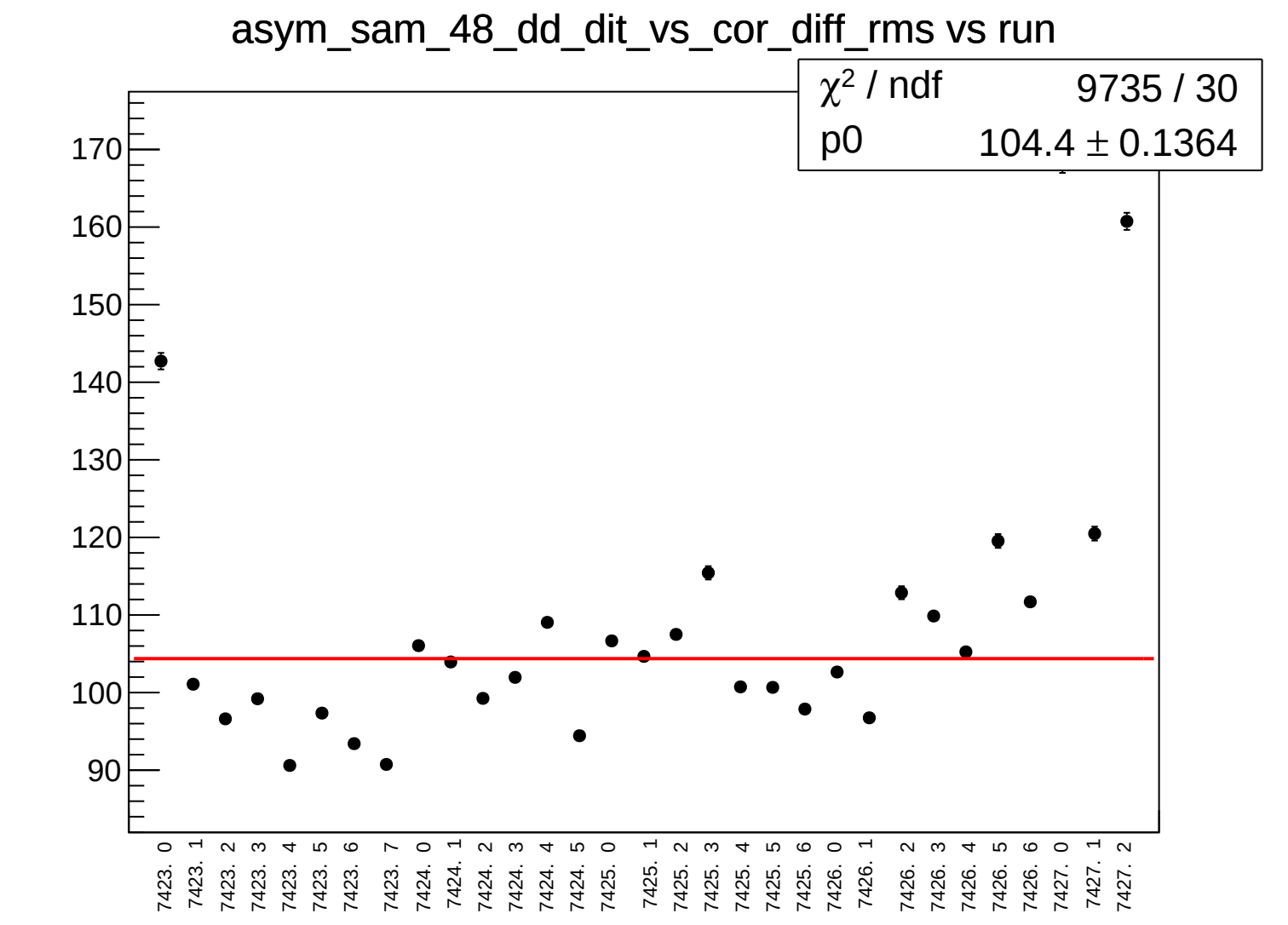

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 26.08 / 30
p0 −5.396e−14 ± 7.894e−14
0.002
0.001
0
−0.001
−0.002
−0.003
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −30.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

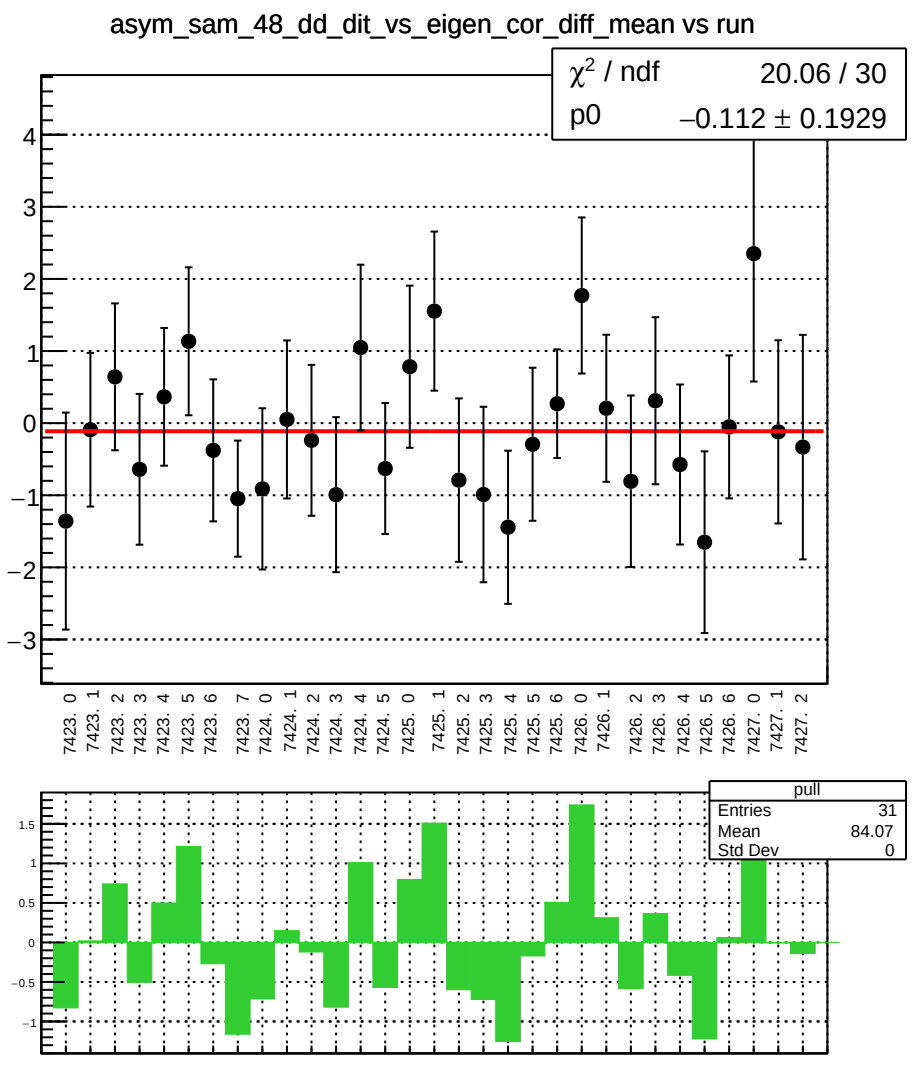

pull1D
Entries 31
Mean −0.03956
Std Dev 0.9164
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

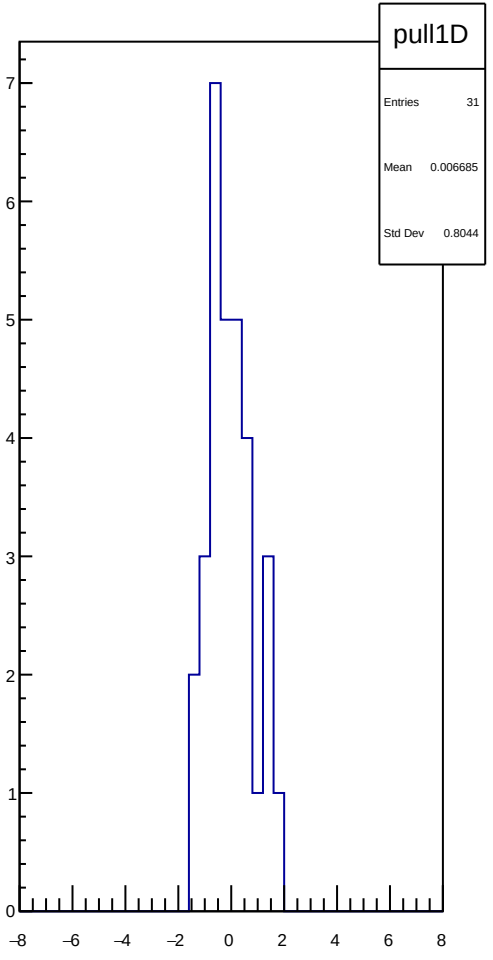

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.23e+05 / 30
p0 1.503e−11 ± 5.582e−14
0.12
0.1
0.08
0.06
0.04
0.02
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

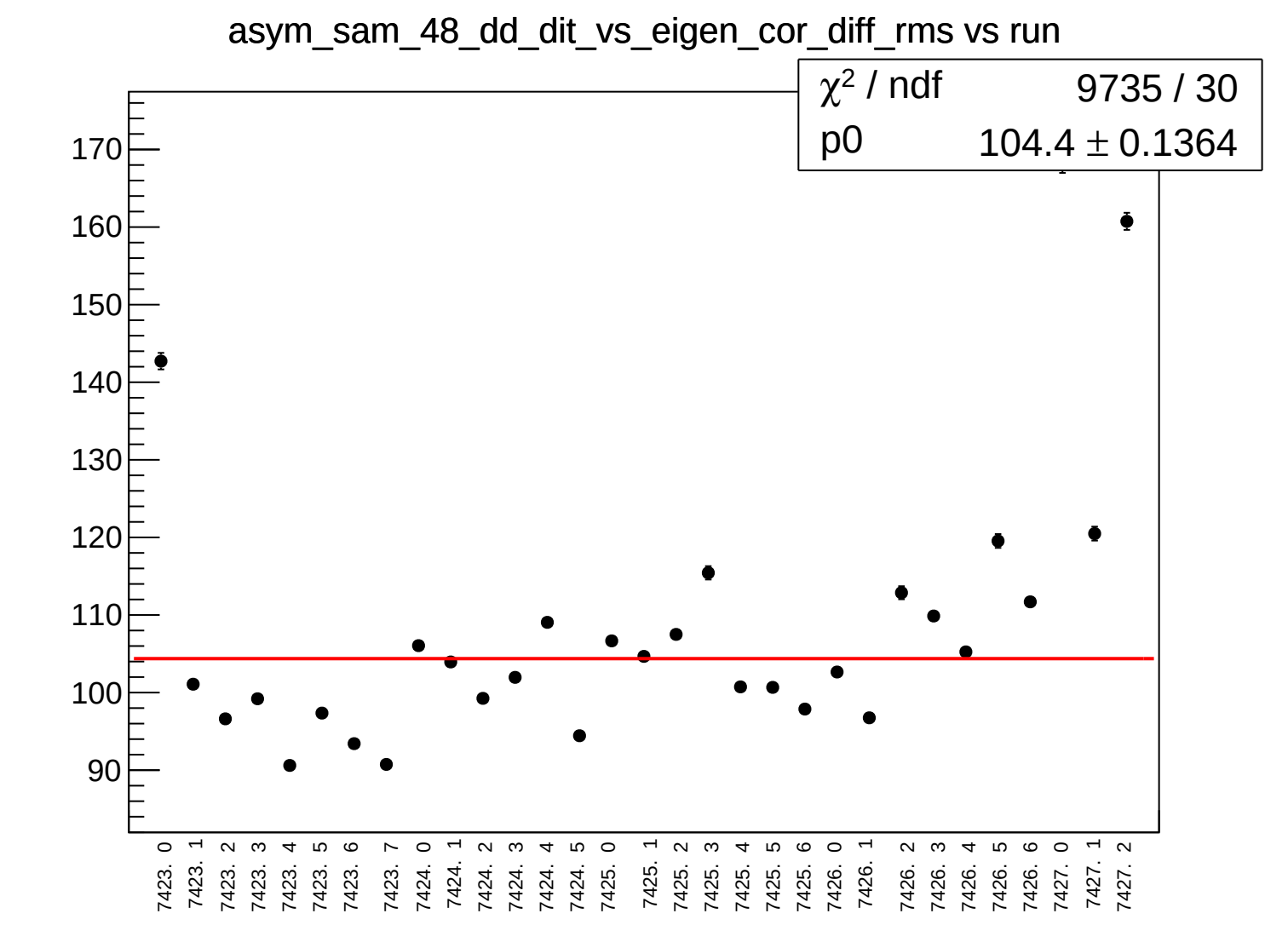

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 20.06 / 30
p0 −0.112 ± 0.1929
pull
Entries 31
Mean 84.07
Std Dev 0

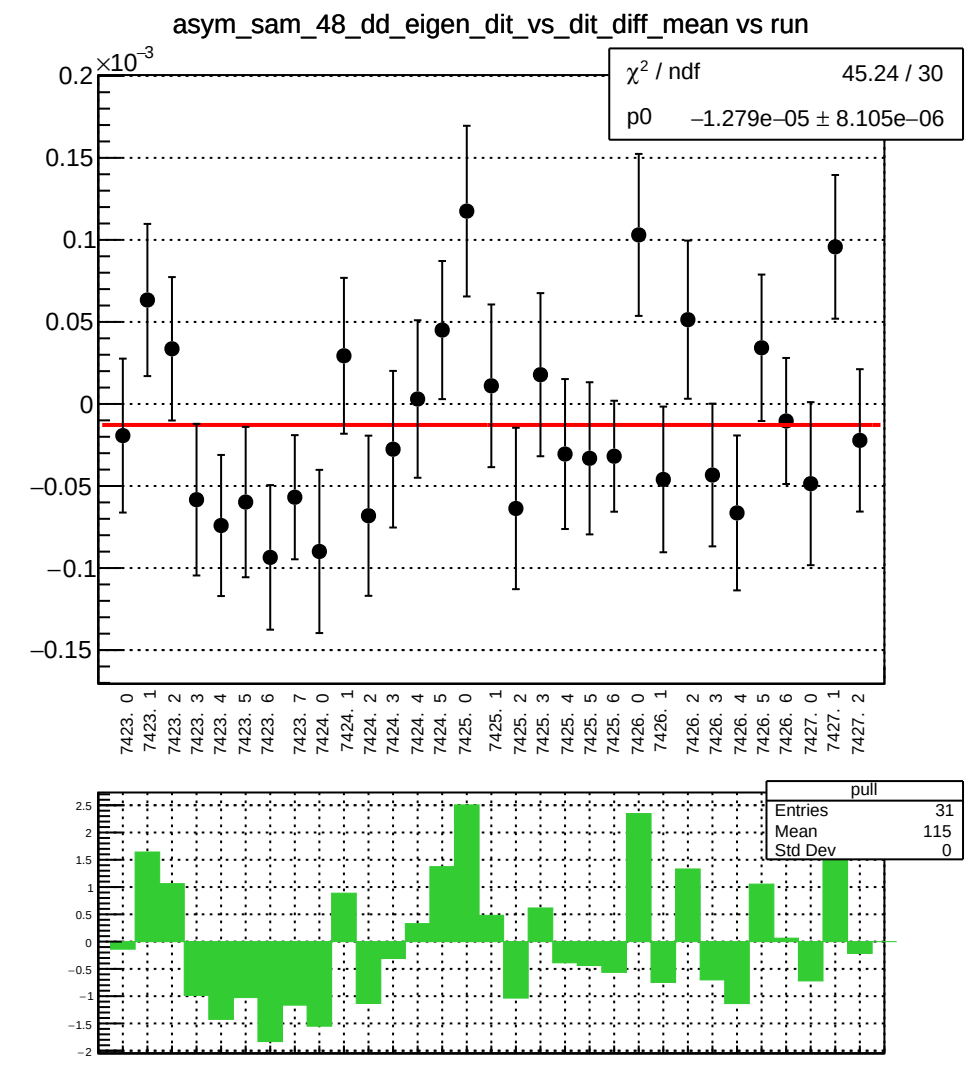

pull1D
Entries 31
Mean 0.006685
Std Dev 0.8044

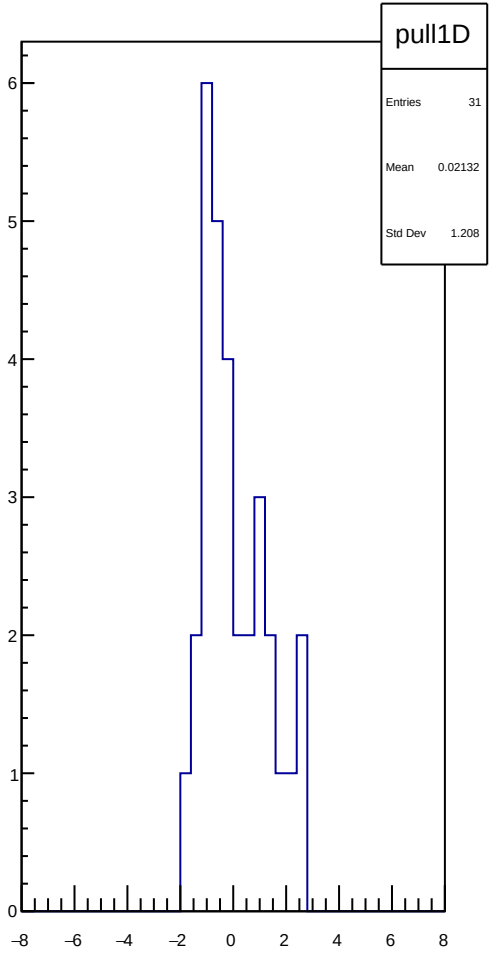

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9735 / 30
p0 104.4 ± 0.1364
170
160
150
140
130
120
110
100
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

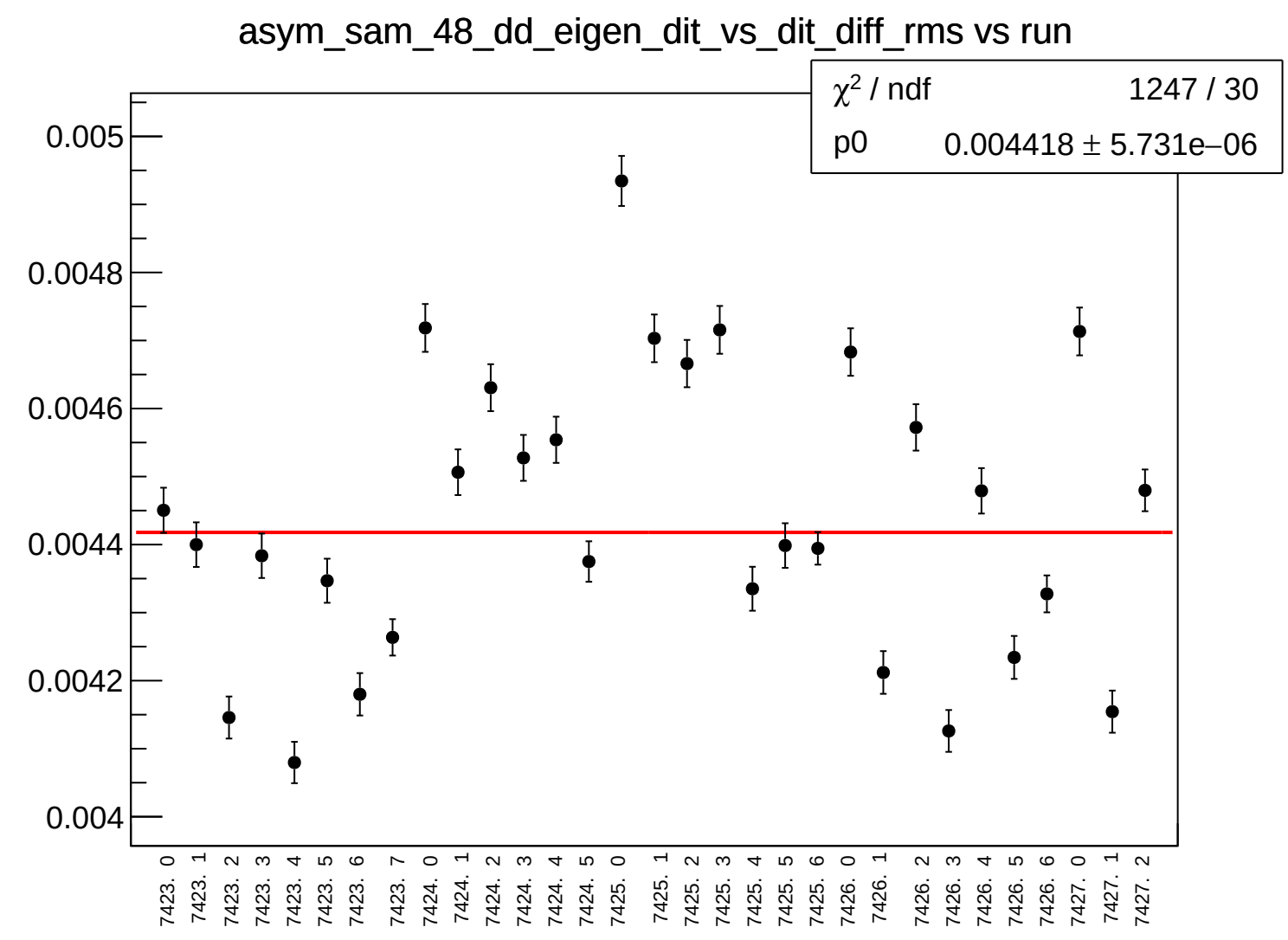

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.06 / 30
p0 −0.112 ± 0.1929
pull
Entries 31
Mean 84.07
Std Dev 0

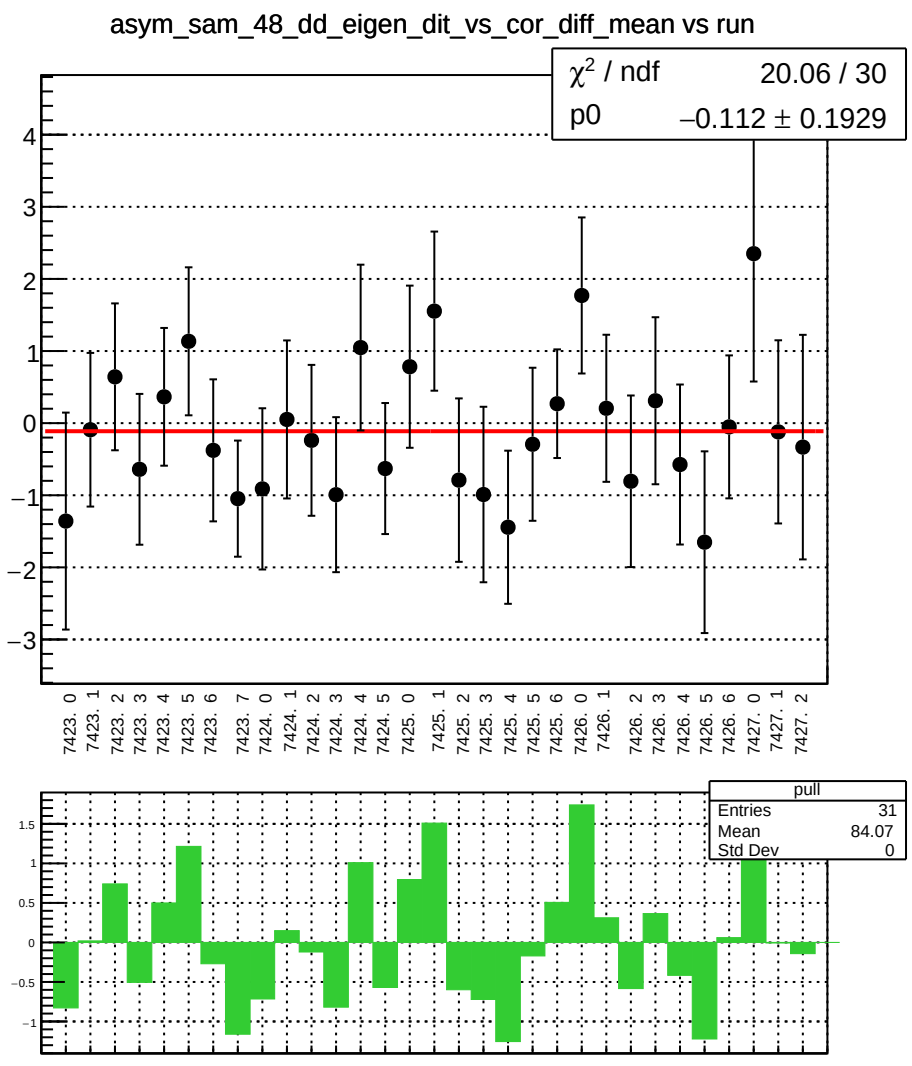

pull1D
Entries 31
Mean 0.006685
Std Dev 0.8044

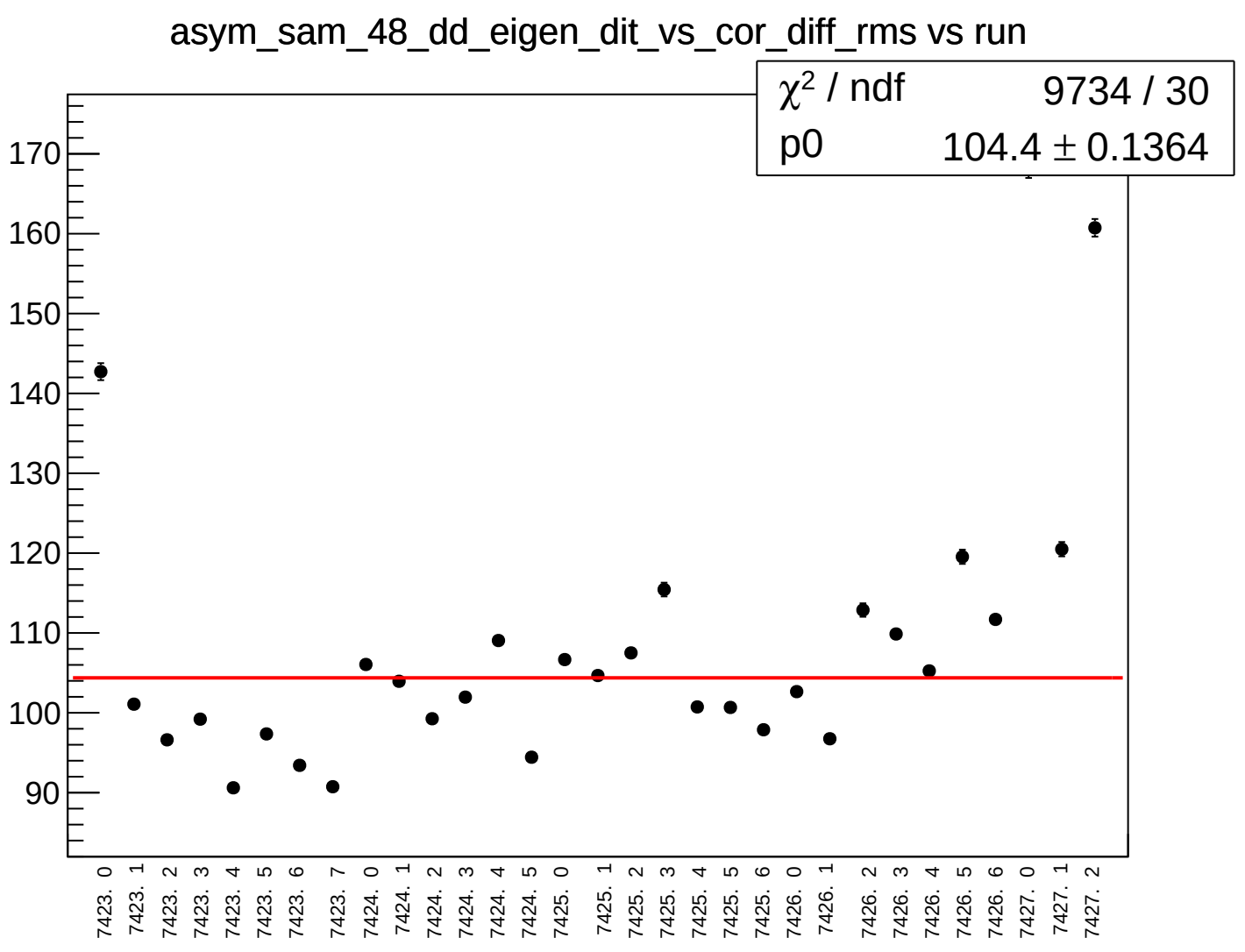

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9735 / 30
p0 104.4 ± 0.1364
170
160
150
140
130
120
110
100
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

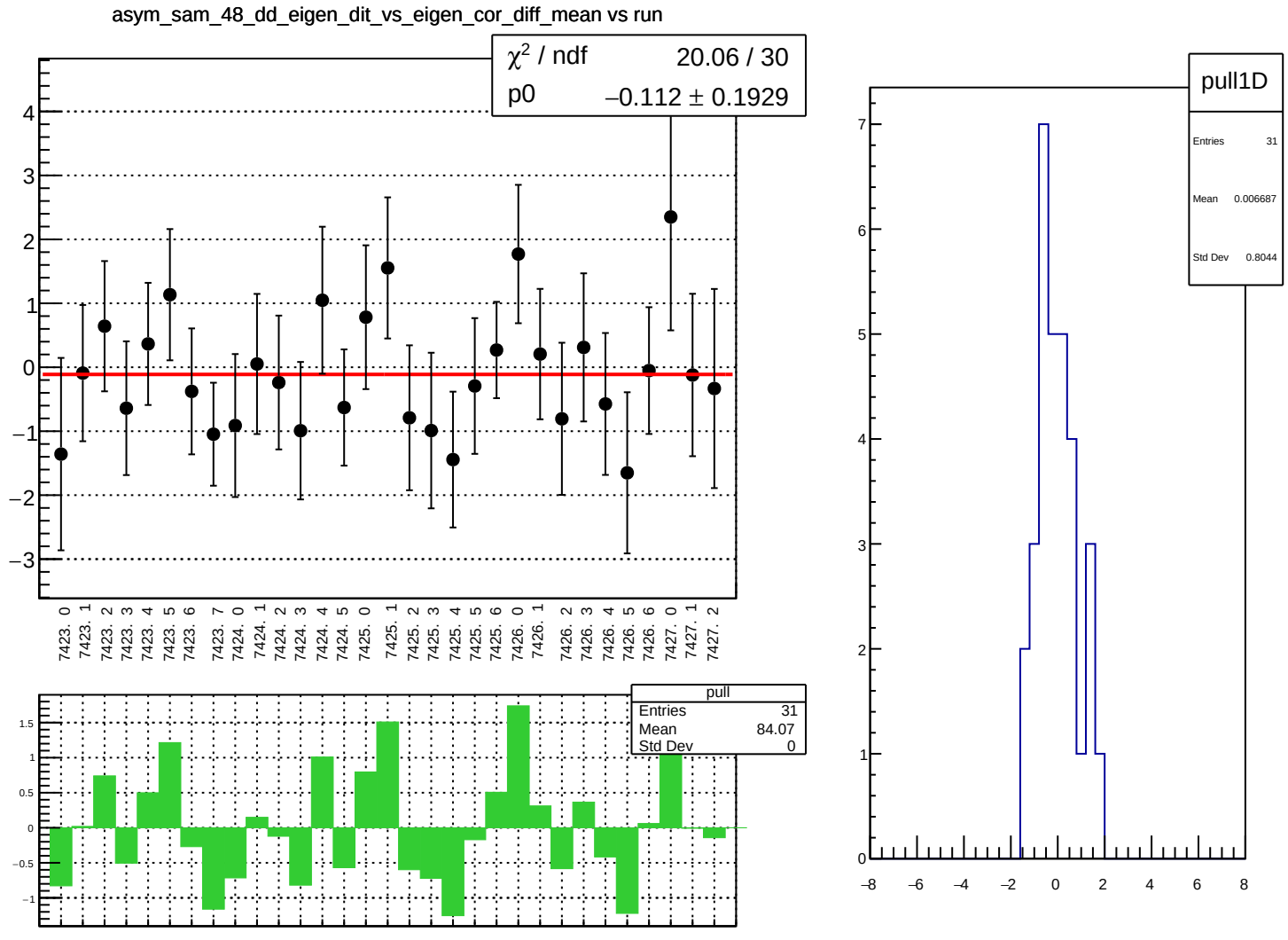

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.24 / 30
p0 −1.279e−05 ± 8.105e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 115
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

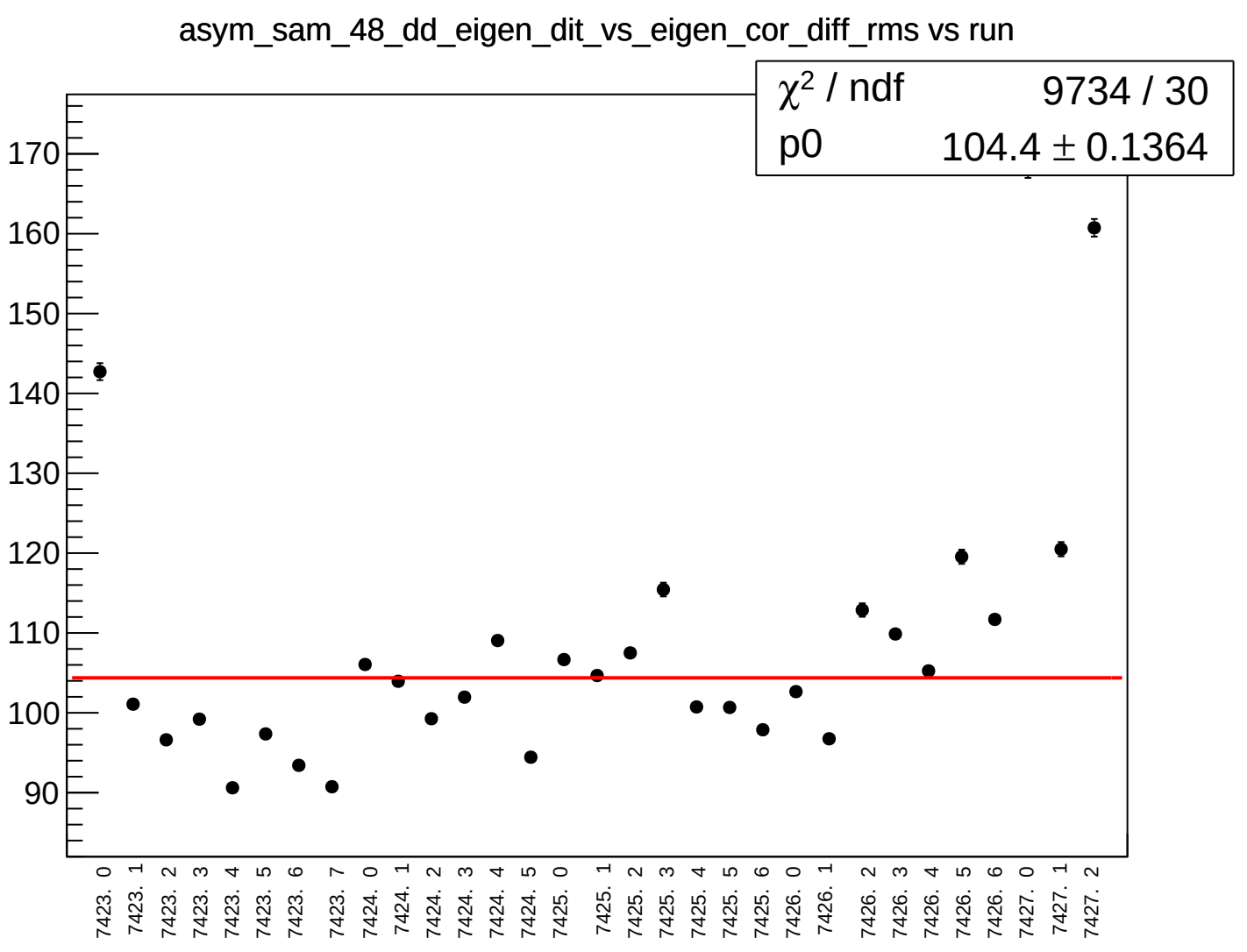

pull1D
Entries 31
Mean 0.02132
Std Dev 1.208
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

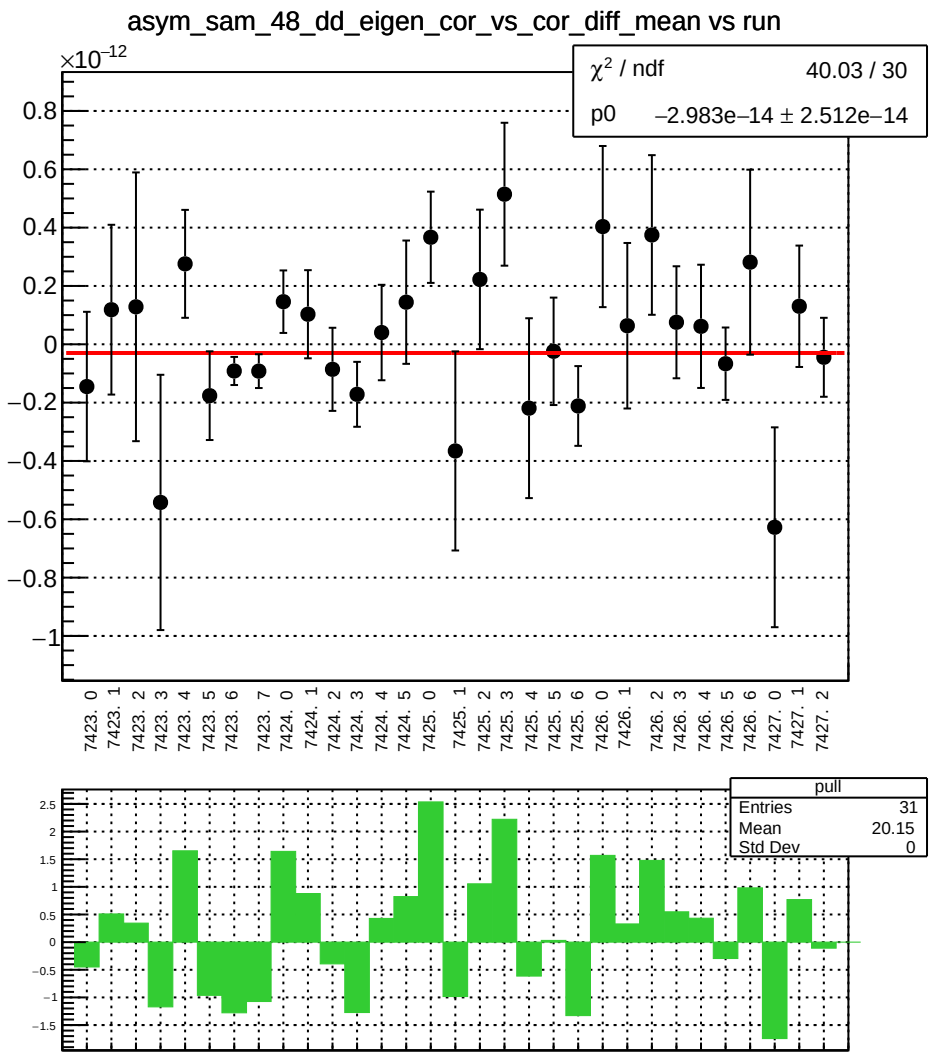

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1247 / 30
p0 0.004418 ± 5.731e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

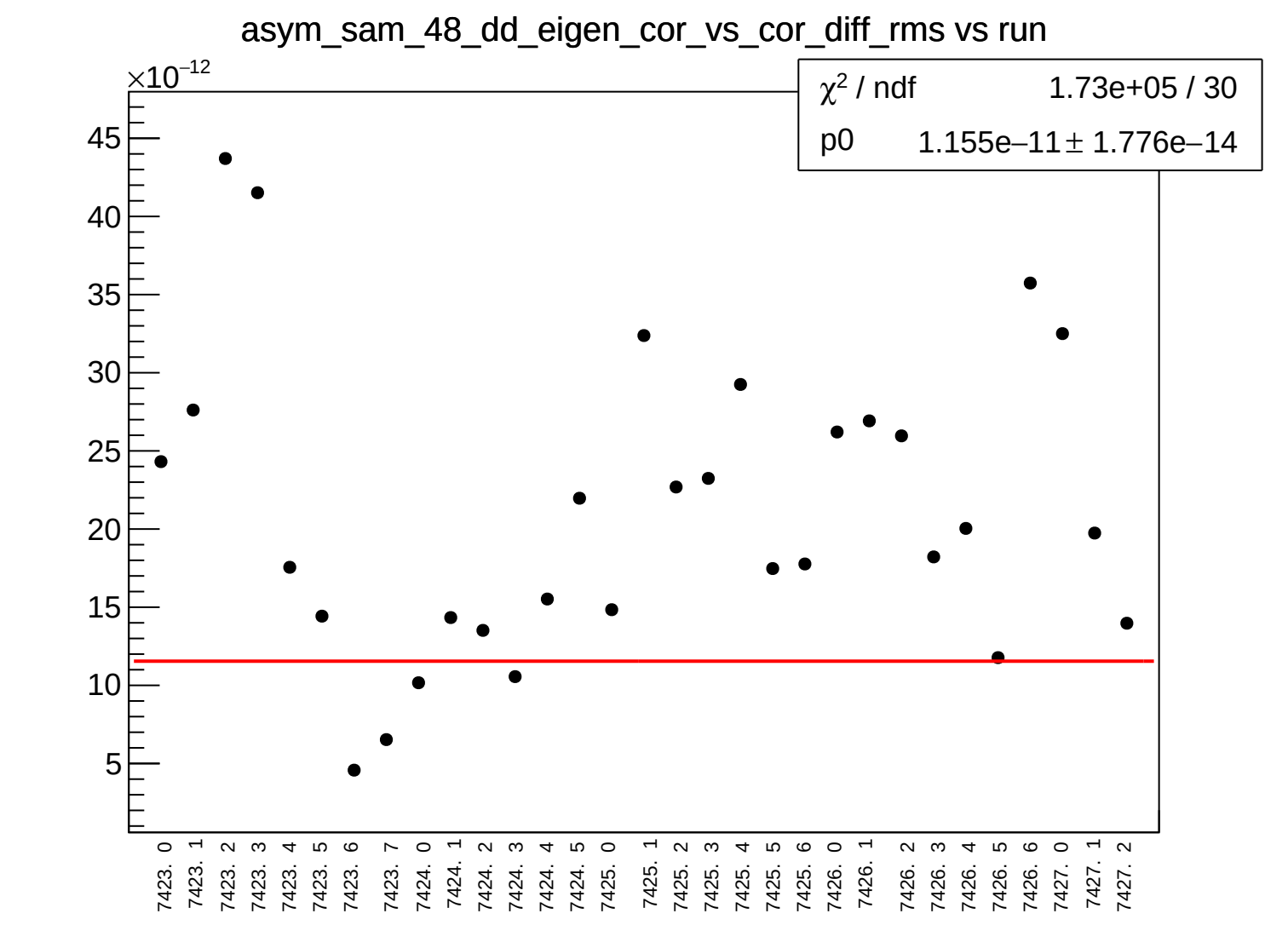

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.06 / 30
p0 −0.112 ± 0.1929
pull
Entries 31
Mean 84.07
Std Dev 0
pull1D
Entries 31
Mean 0.006687
Std Dev 0.8044

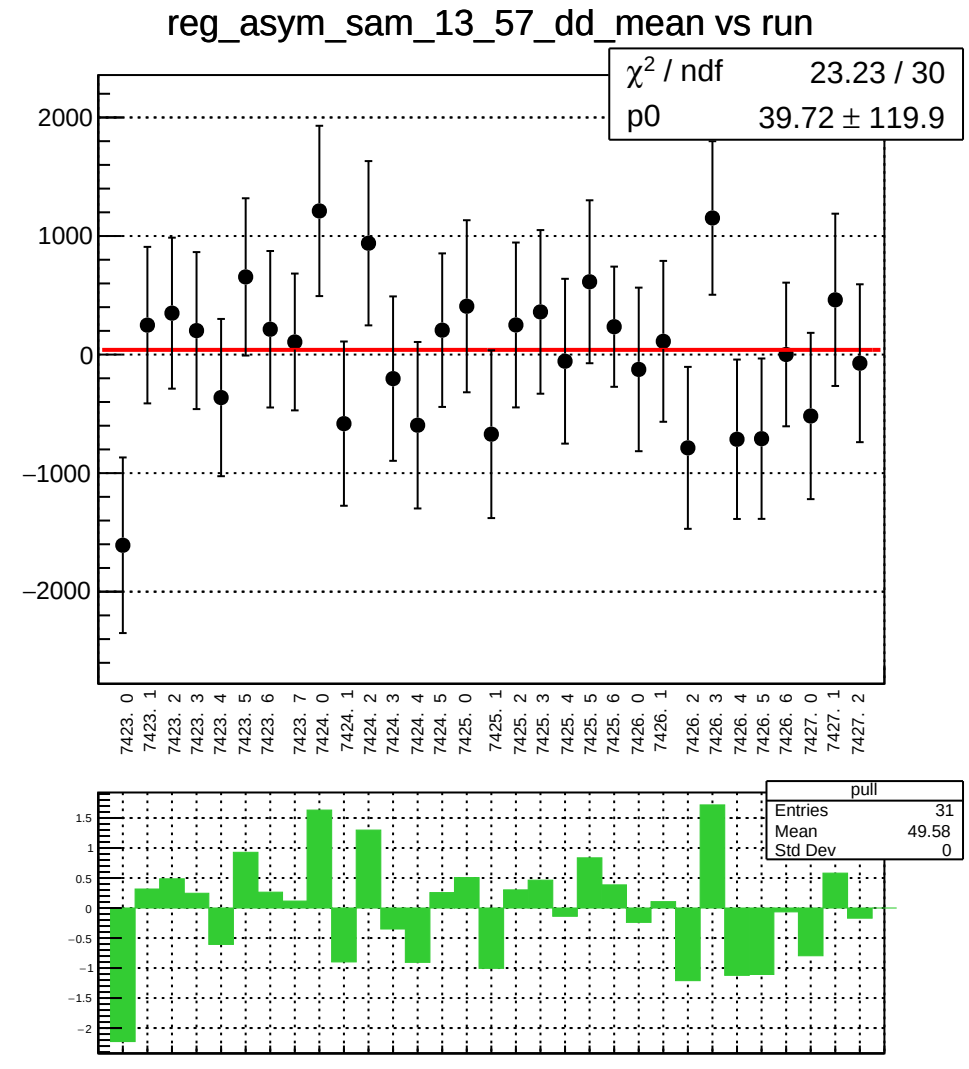

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9734 / 30
p0 104.4 ± 0.1364
170
160
150
140
130
120
110
100
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

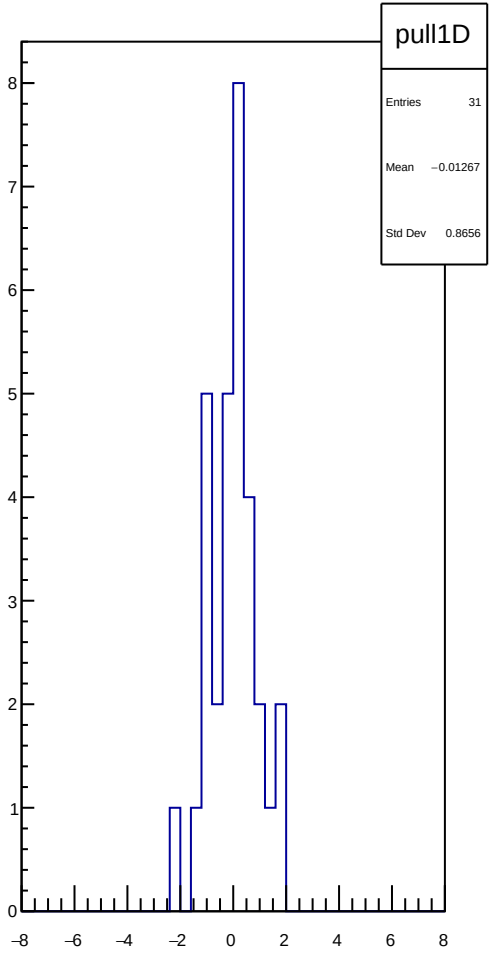

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.06 / 30
p0 −0.112 ± 0.1929
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 84.07
Std Dev 0
pull1D
Entries 31
Mean 0.006687
Std Dev 0.8044

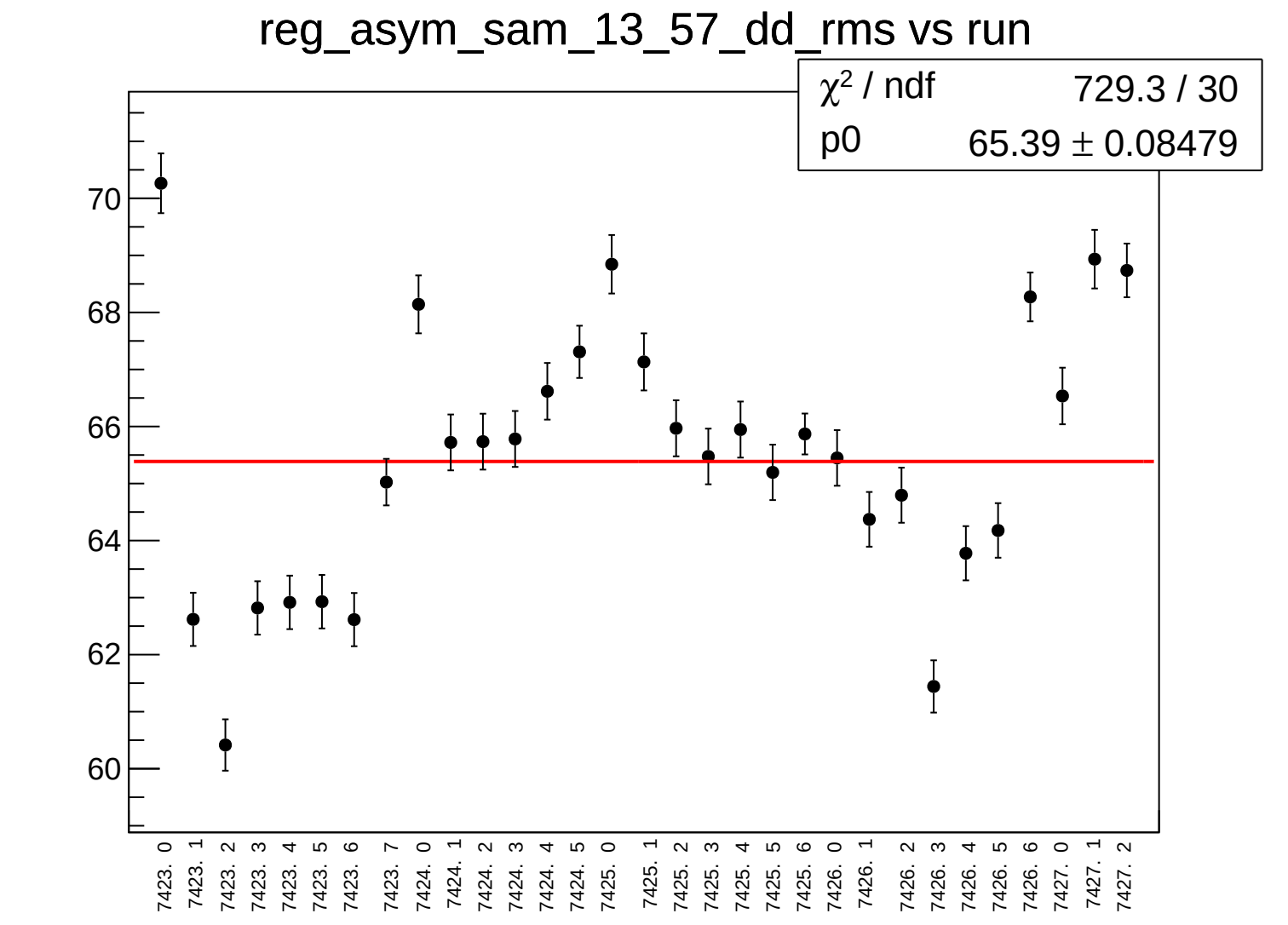

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9734 / 30
p0 104.4 ± 0.1364
170
160
150
140
130
120
110
100
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

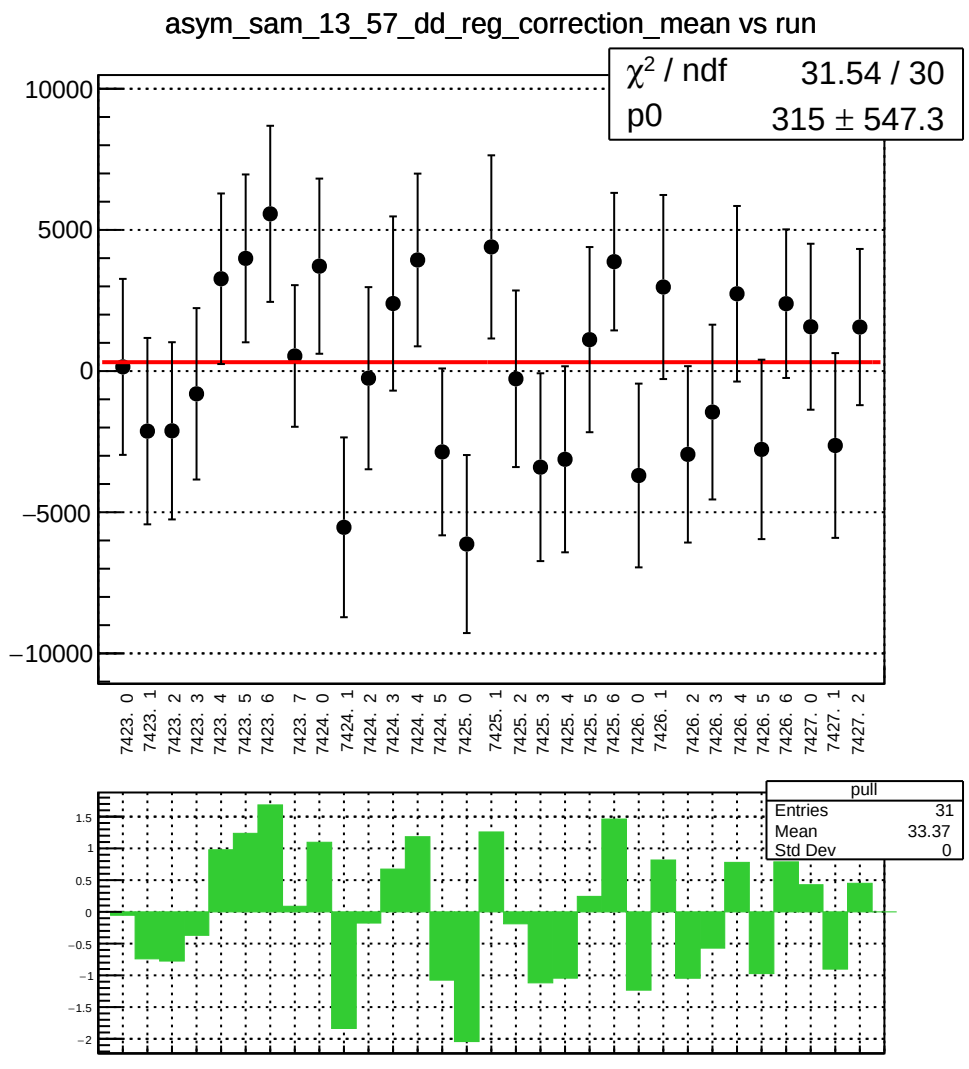

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.03 / 30
p0 −2.983e−14 ± 2.512e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 20.15
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.2114
Std Dev 1.117
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

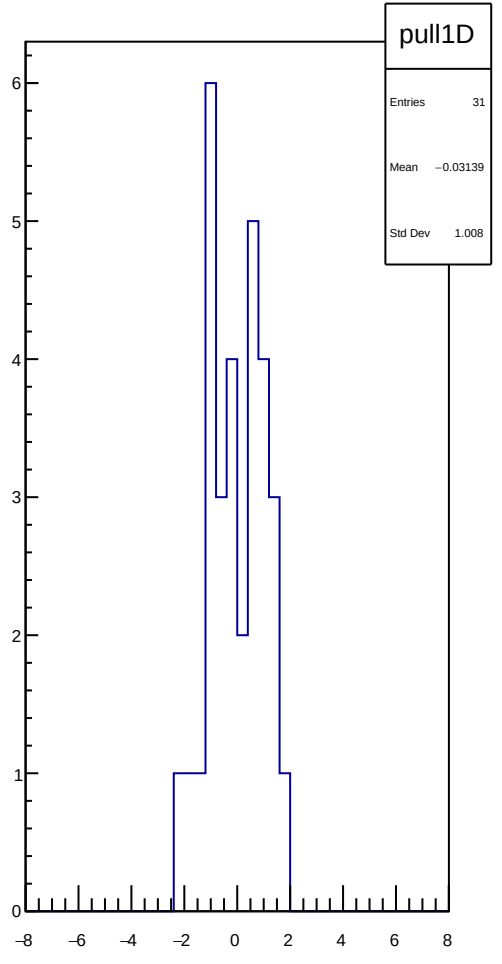

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.73e+05 / 30
p0 1.155e−11 ± 1.776e−14
45
40
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

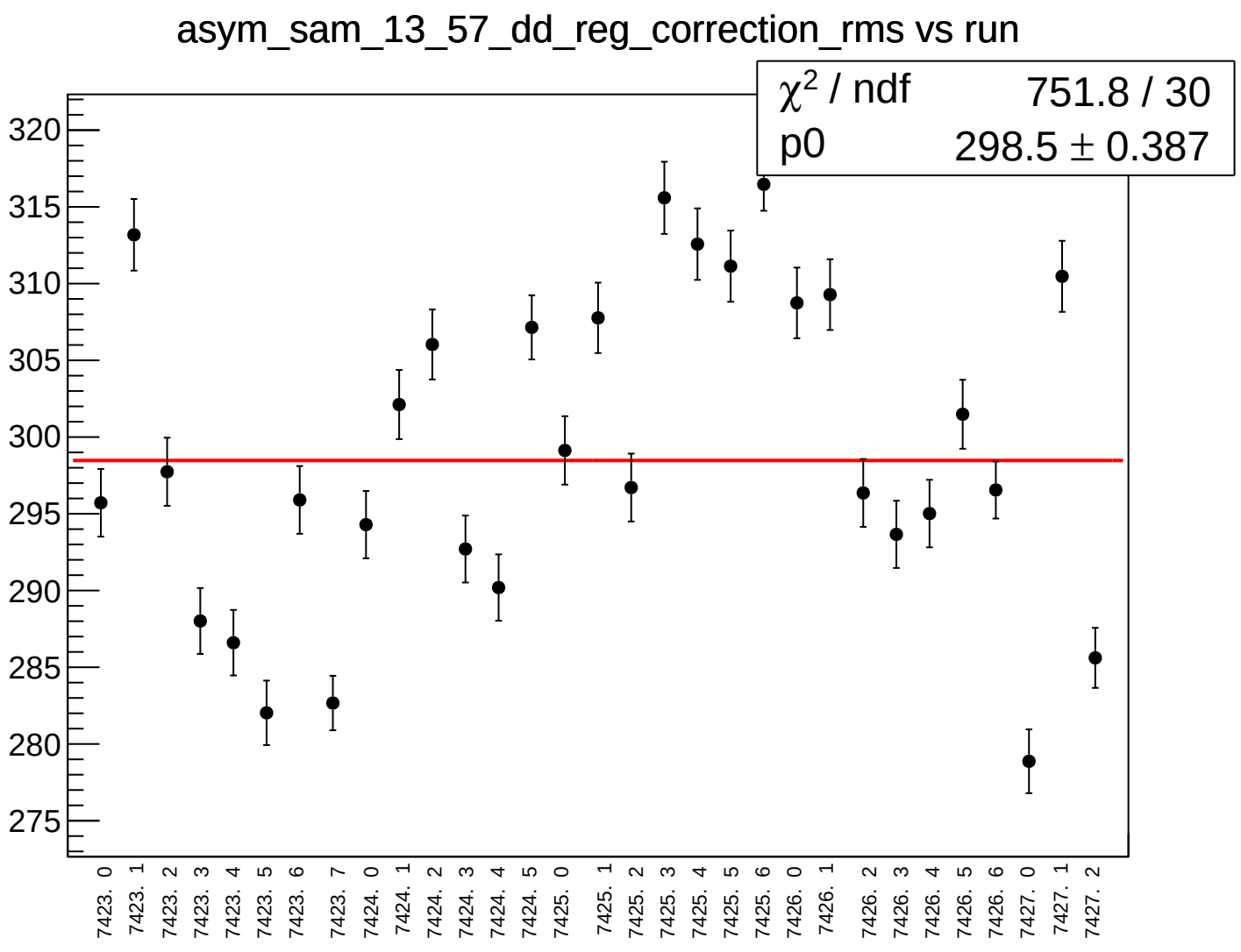

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 23.23 / 30
p0 39.72 ± 119.9
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

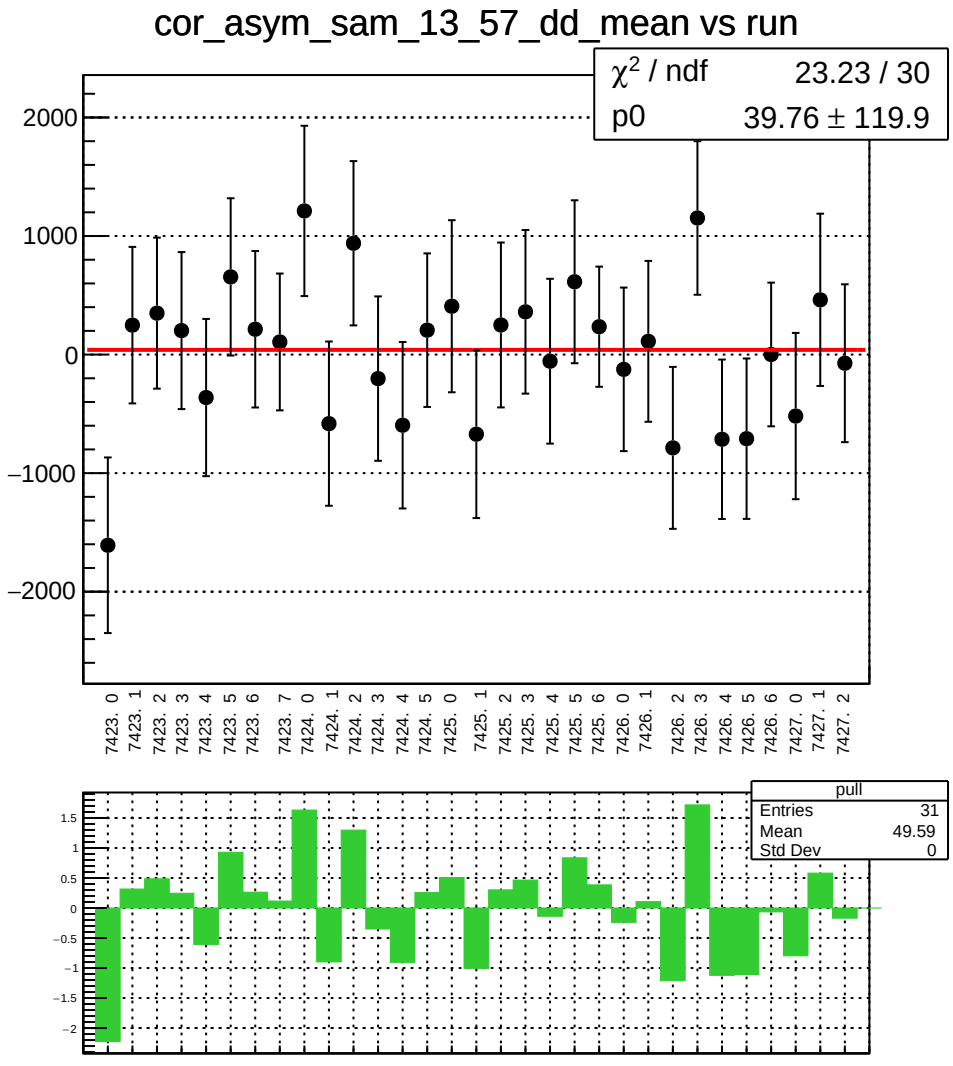

pull1D
Entries 31
Mean −0.01267
Std Dev 0.8656
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

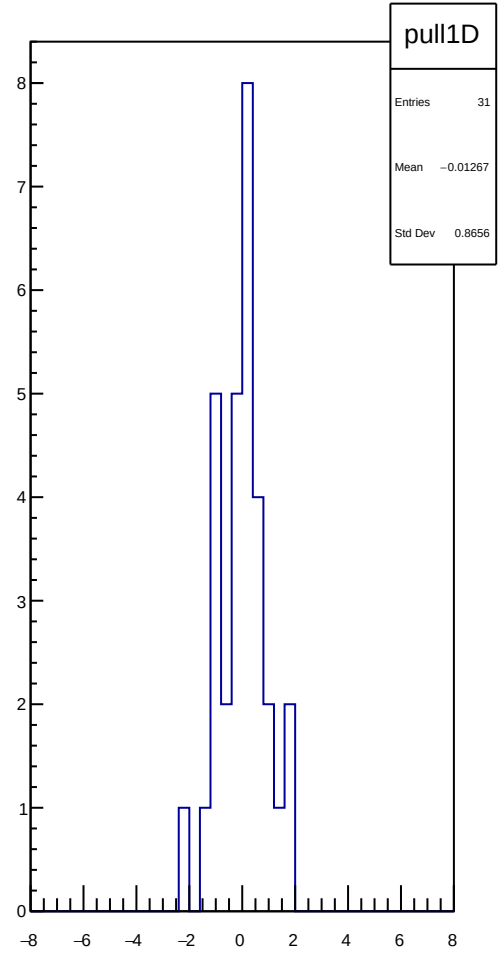

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 729.3 / 30
p0 65.39 ± 0.08479
70
68
66
64
62
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

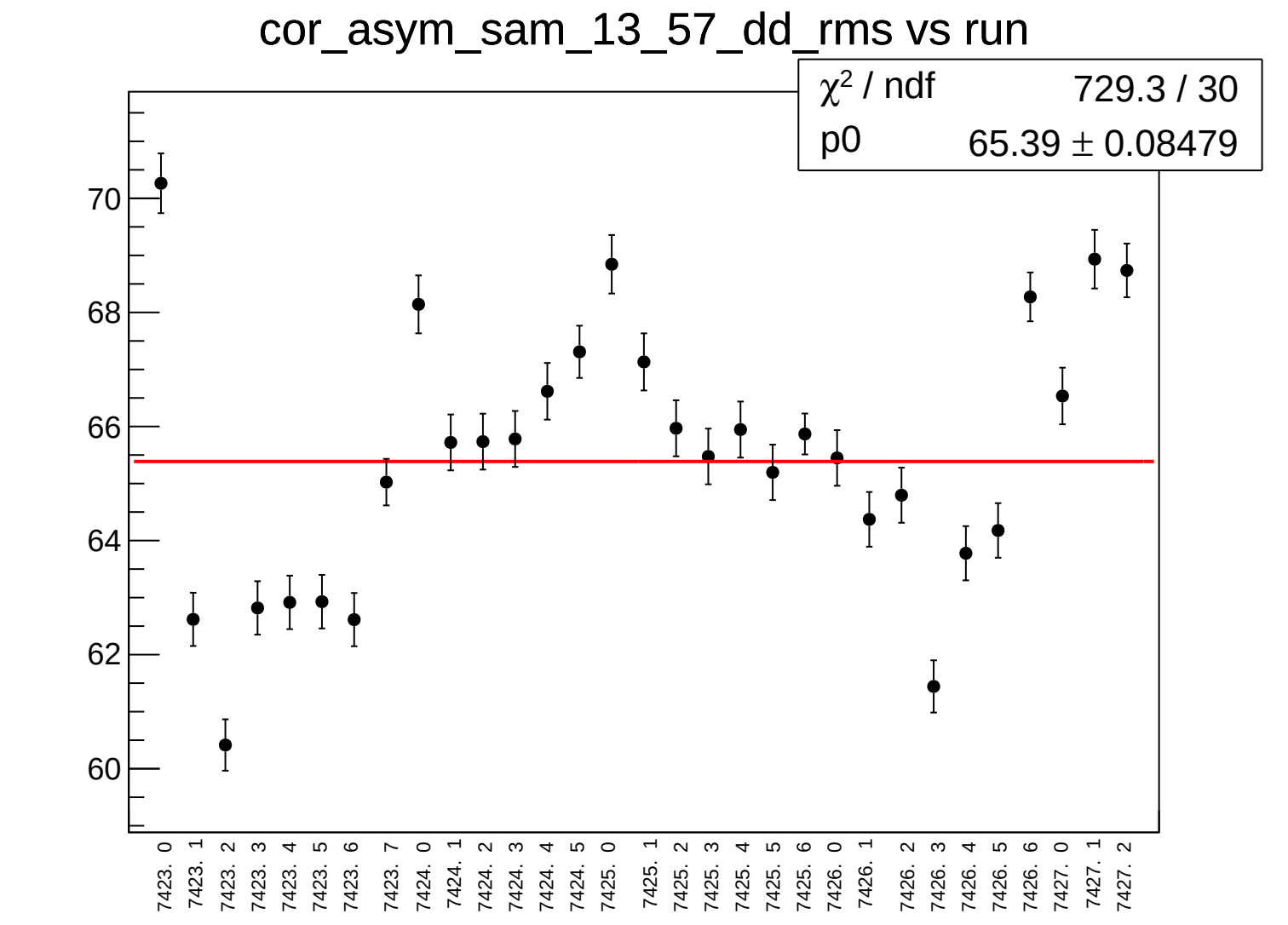

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 31.54 / 30
p0 315 ± 547.3
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 33.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

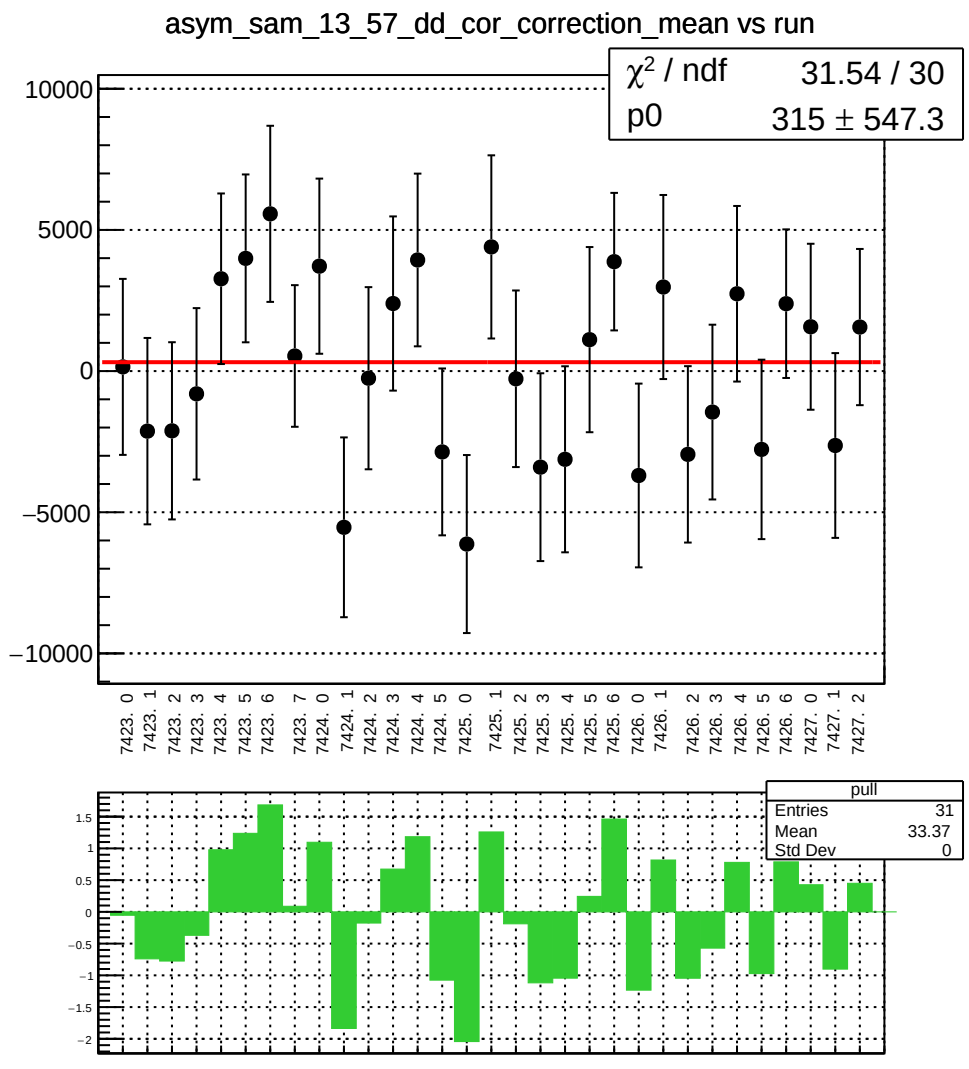

pull1D
Entries 31
Mean −0.03139
Std Dev 1.008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

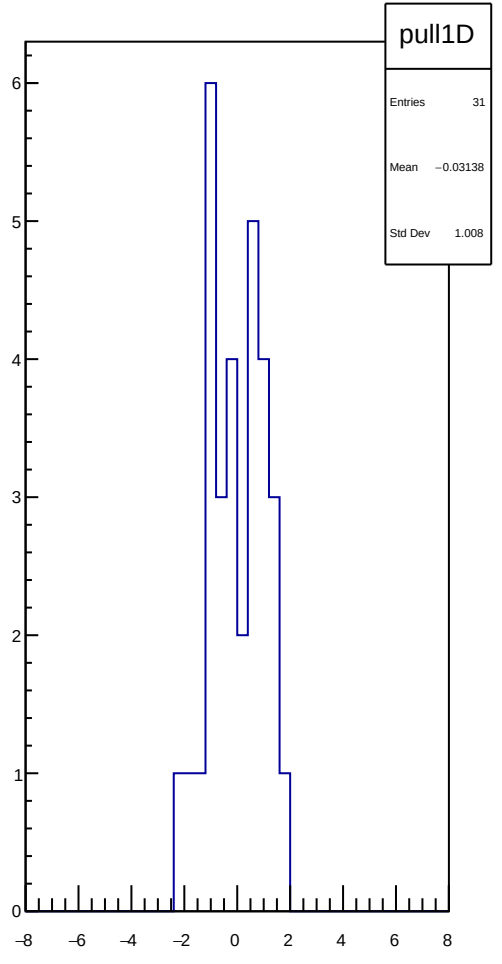

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 751.8 / 30
p0 298.5 ± 0.387
320
315
310
305
300
295
290
285
280
275
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

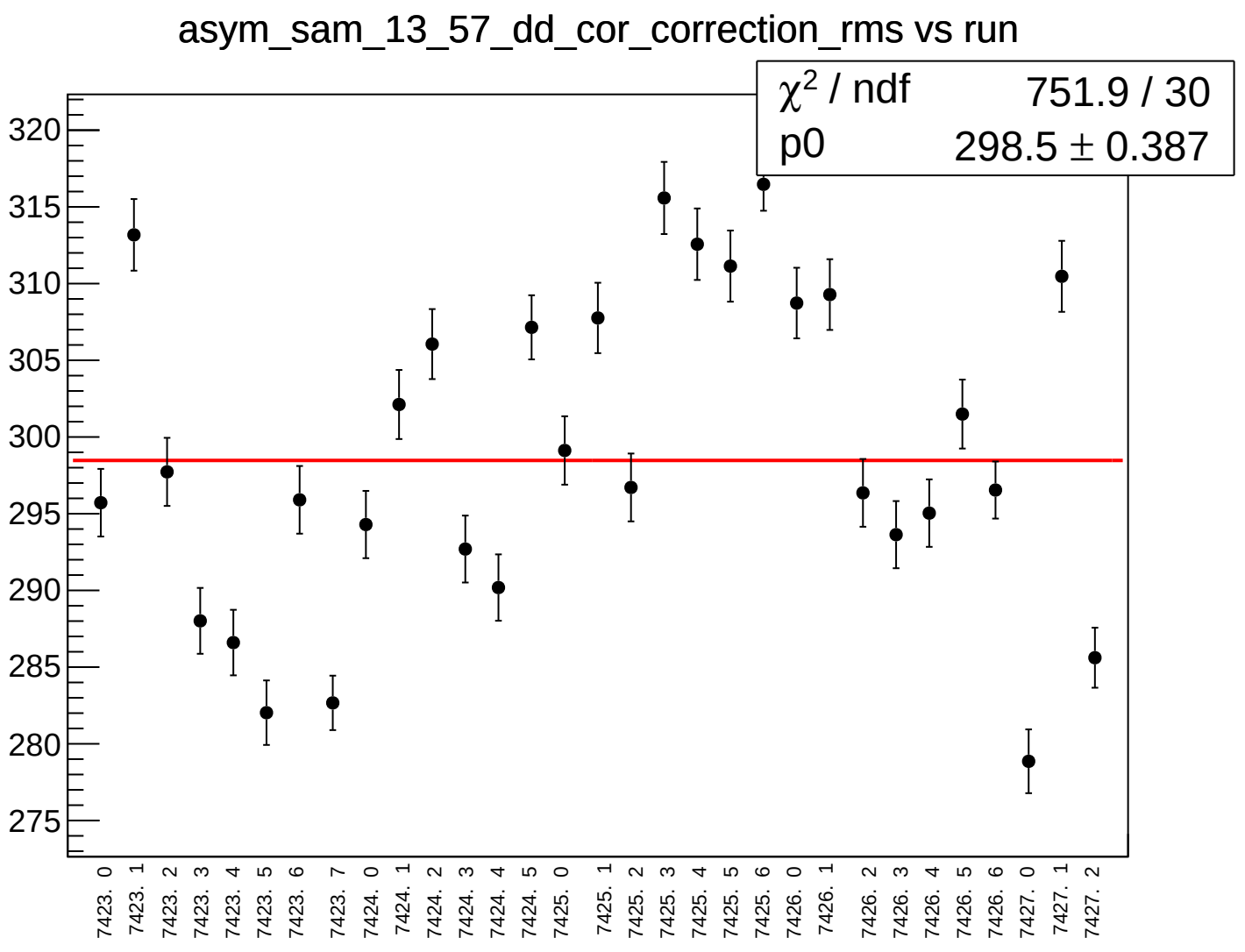

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 23.23 / 30
p0 39.76 ± 119.9
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

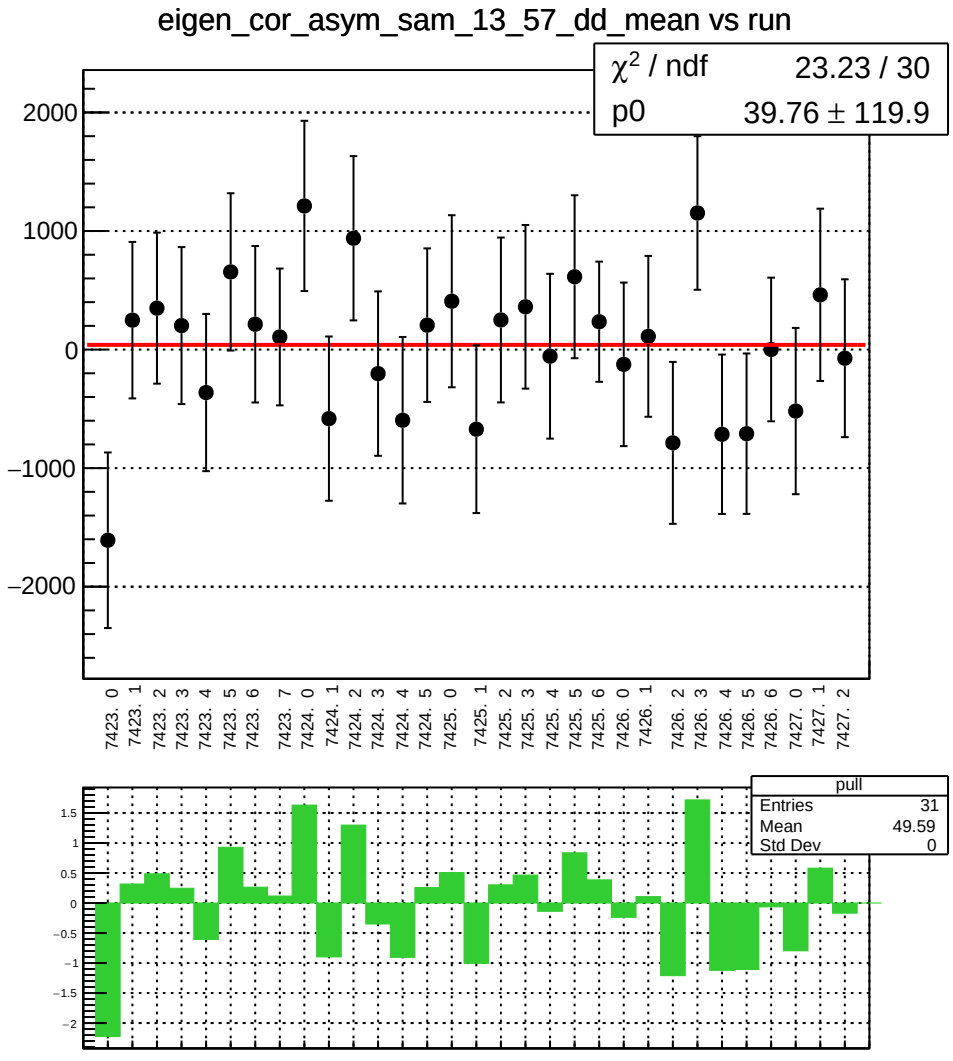

pull1D
Entries 31
Mean −0.01267
Std Dev 0.8656
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

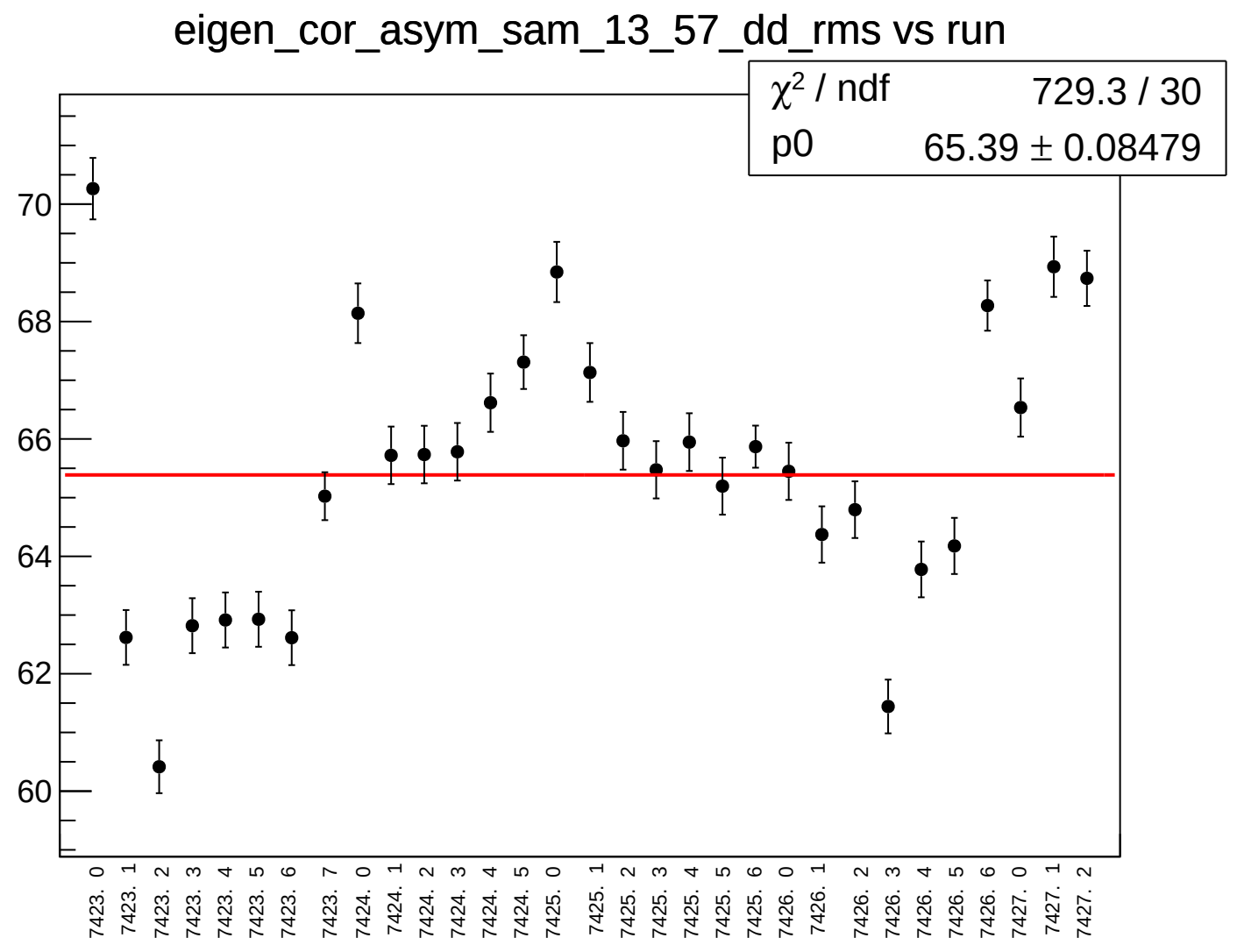

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 729.3 / 30
p0 65.39 ± 0.08479
70
68
66
64
62
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

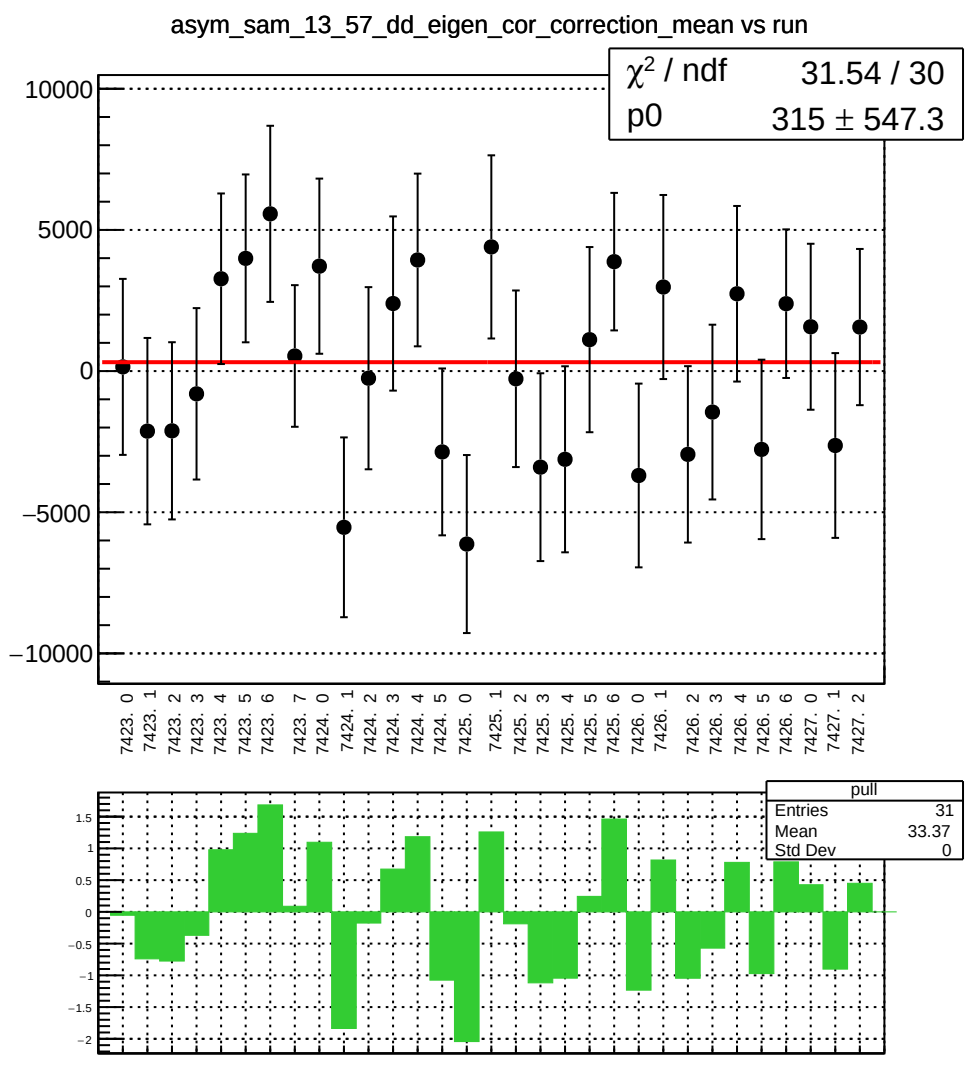

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 31.54 / 30
p0 315 ± 547.3
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 33.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

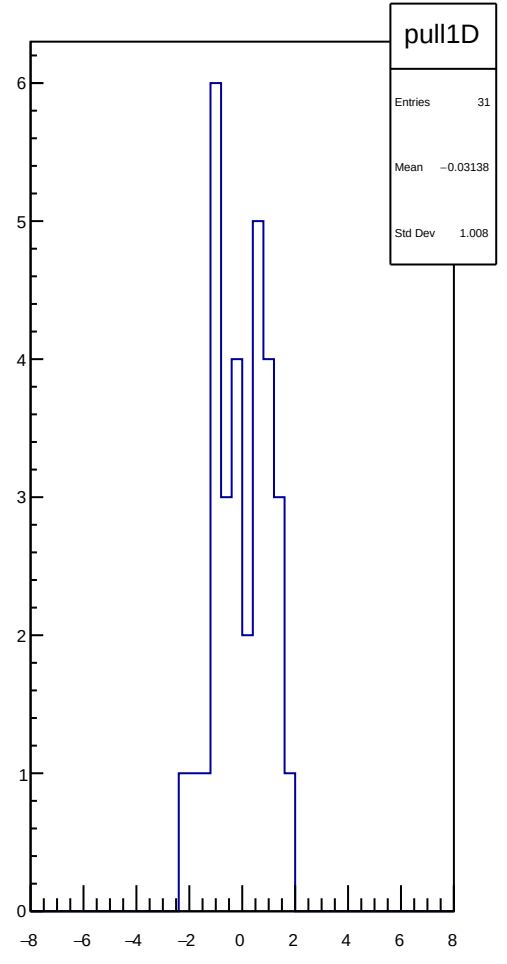

pull1D
Entries 31
Mean −0.03138
Std Dev 1.008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

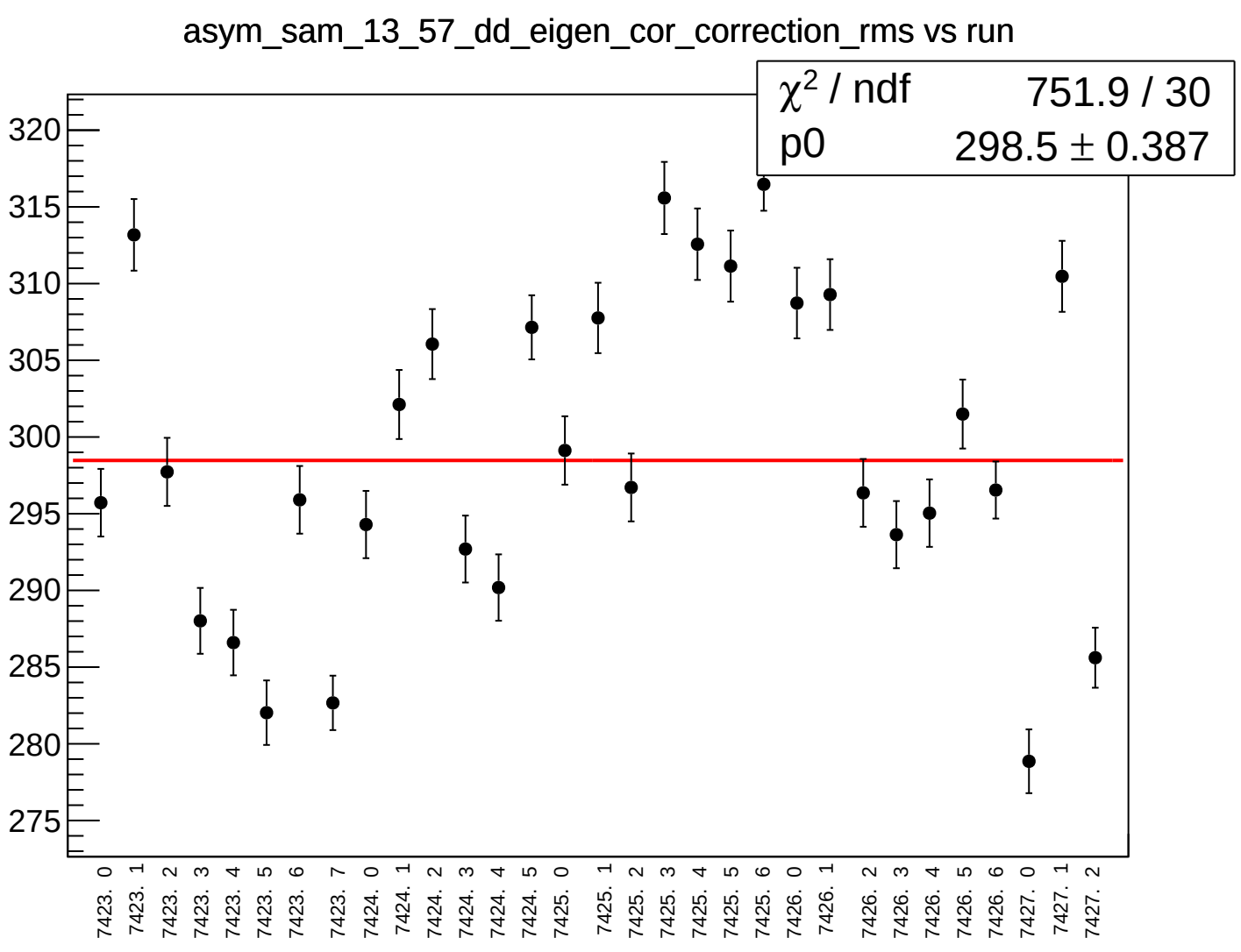

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 751.9 / 30
p0 298.5 ± 0.387
320
315
310
305
300
295
290
285
280
275
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

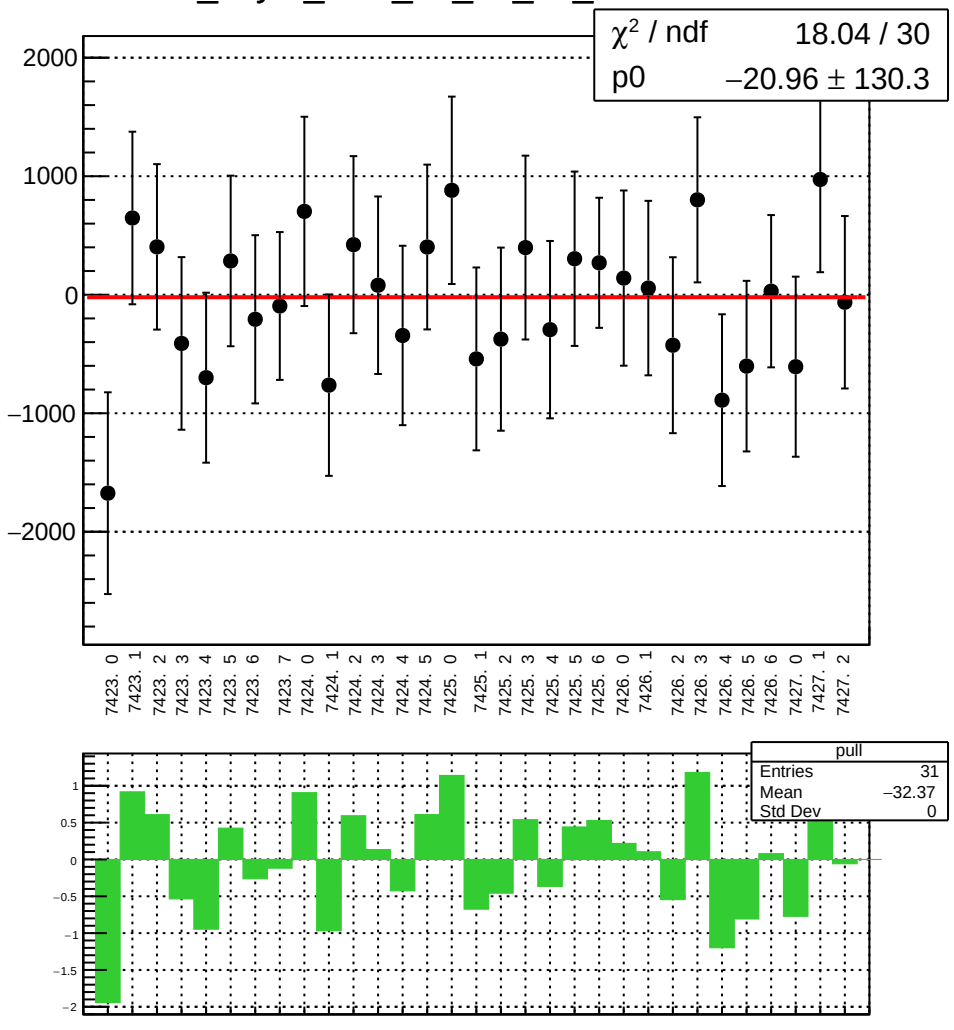

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 23.23 / 30
p0 39.76 ± 119.9
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01267
Std Dev 0.8656
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

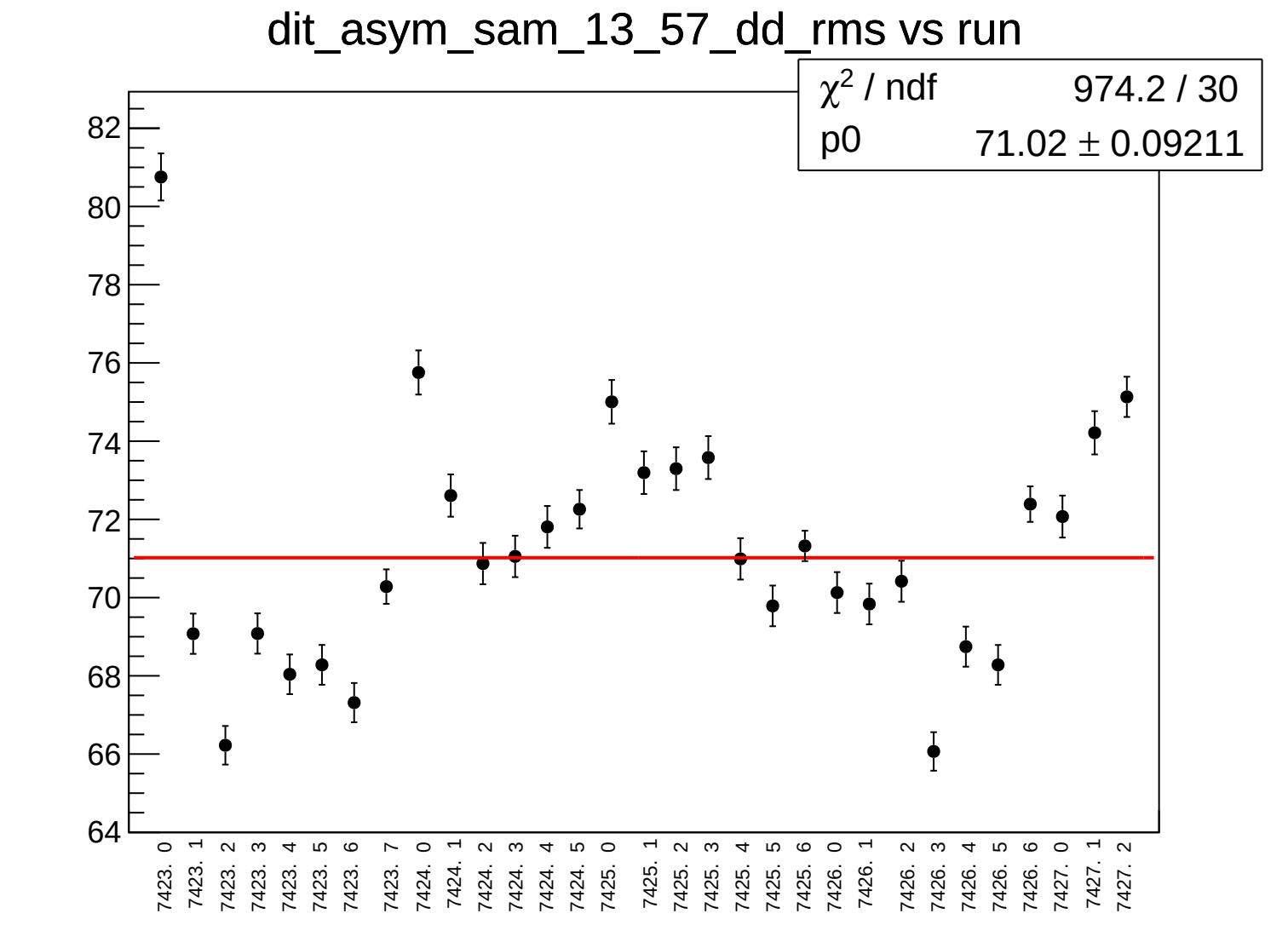

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 729.3 / 30
p0 65.39 ± 0.08479
70
68
66
64
62
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

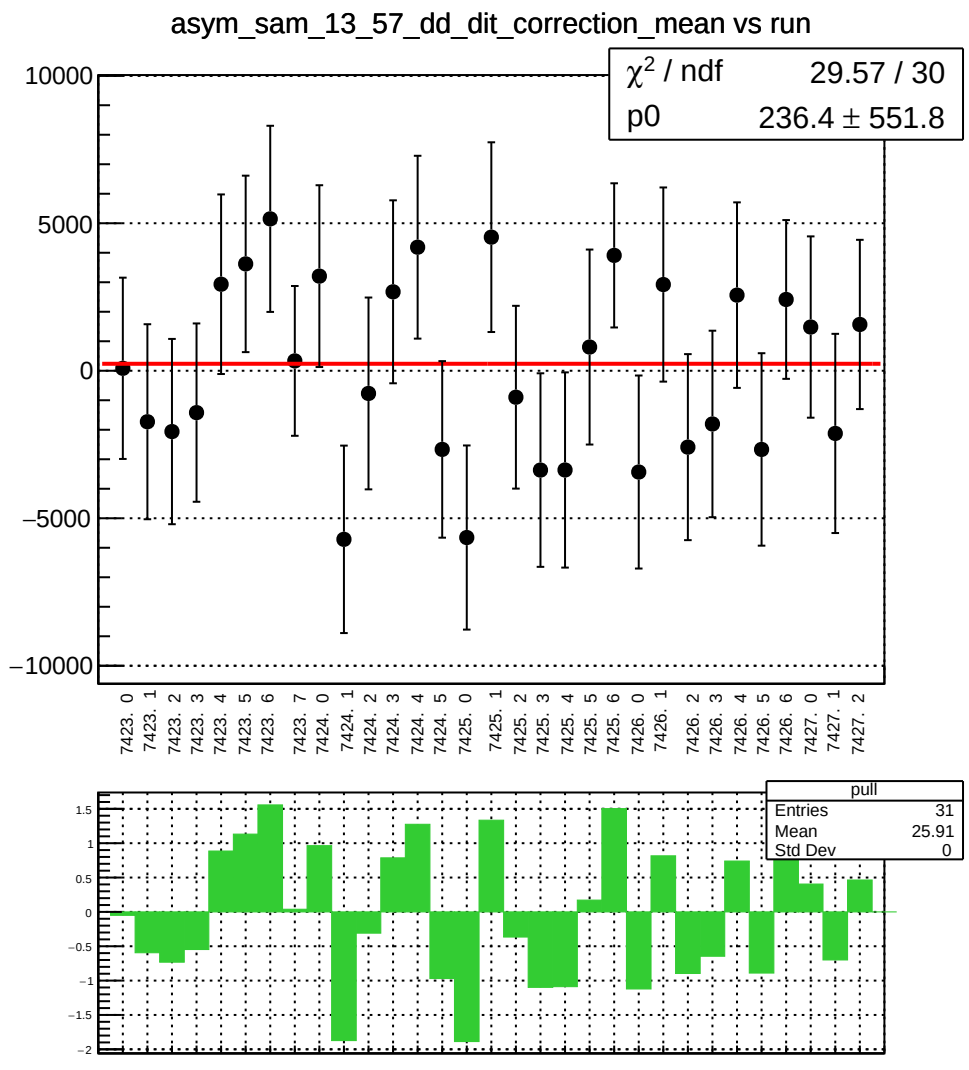

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.54 / 30
p0 315 ± 547.3
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 33.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

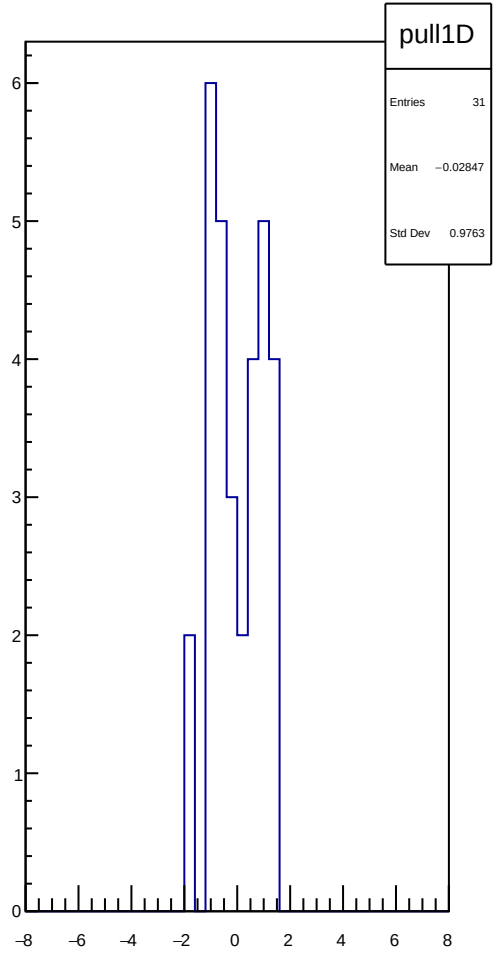

pull1D
Entries 31
Mean −0.03138
Std Dev 1.008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

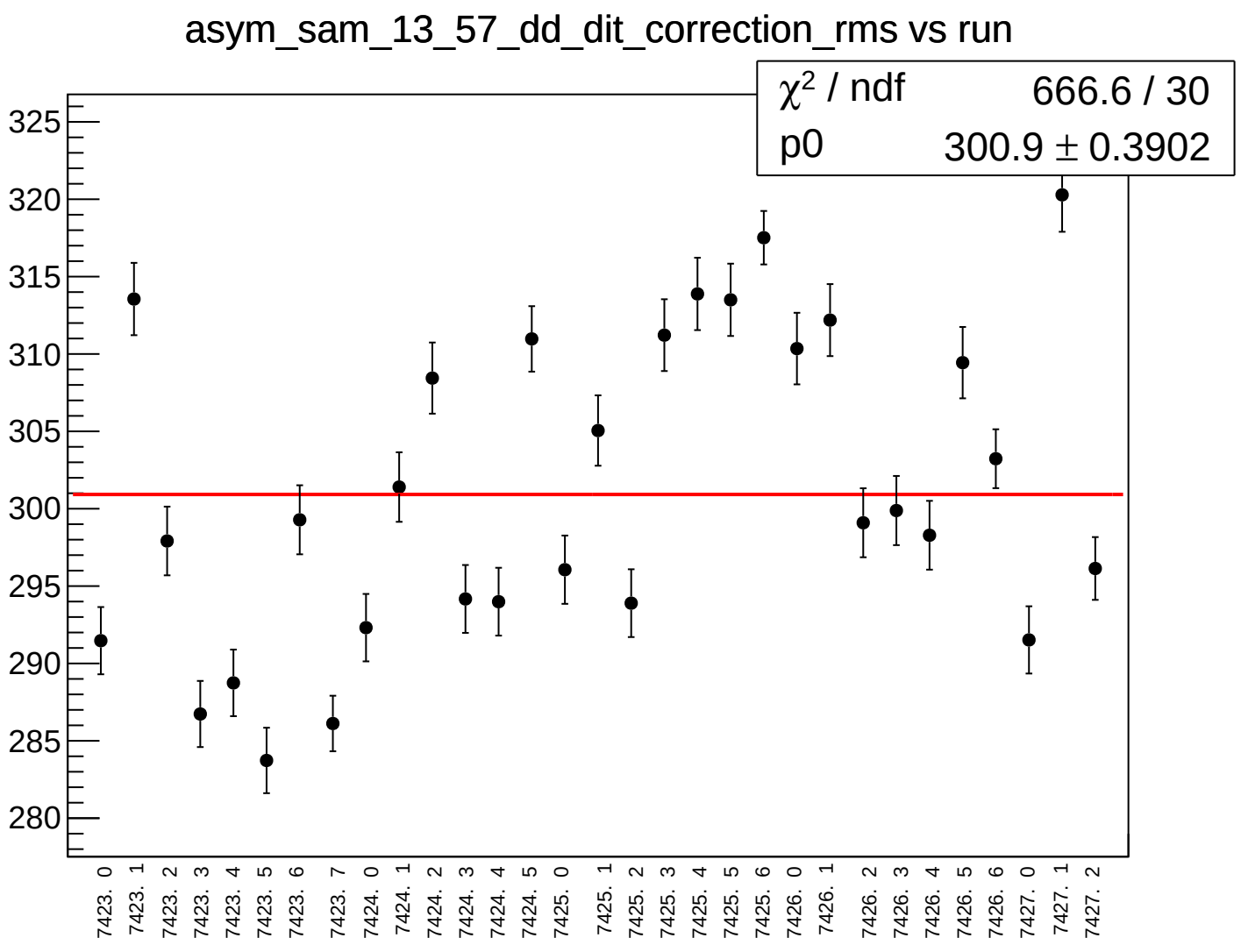

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 751.9 / 30
p0 298.5 ± 0.387
320
315
310
305
300
295
290
285
280
275
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

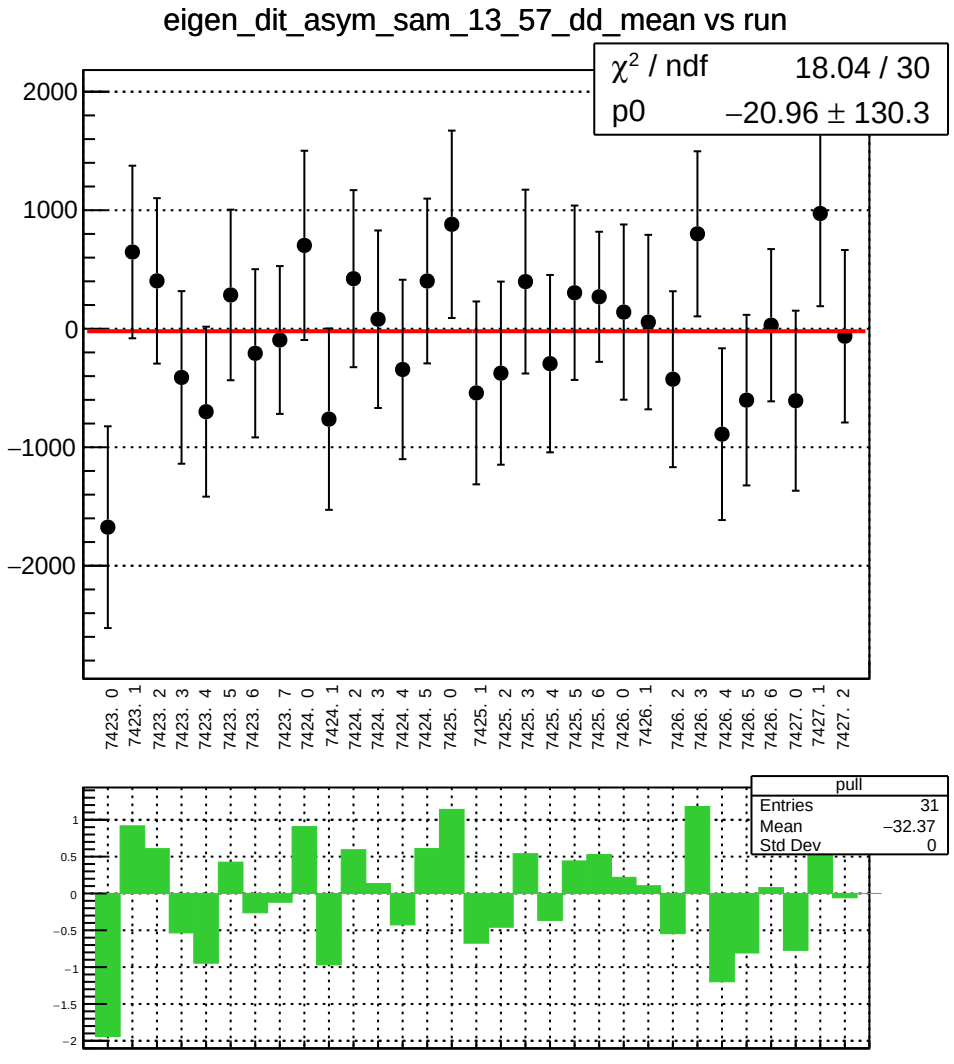

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 18.04 / 30
p0 −20.96 ± 130.3
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −32.37
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01235
Std Dev 0.7628
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

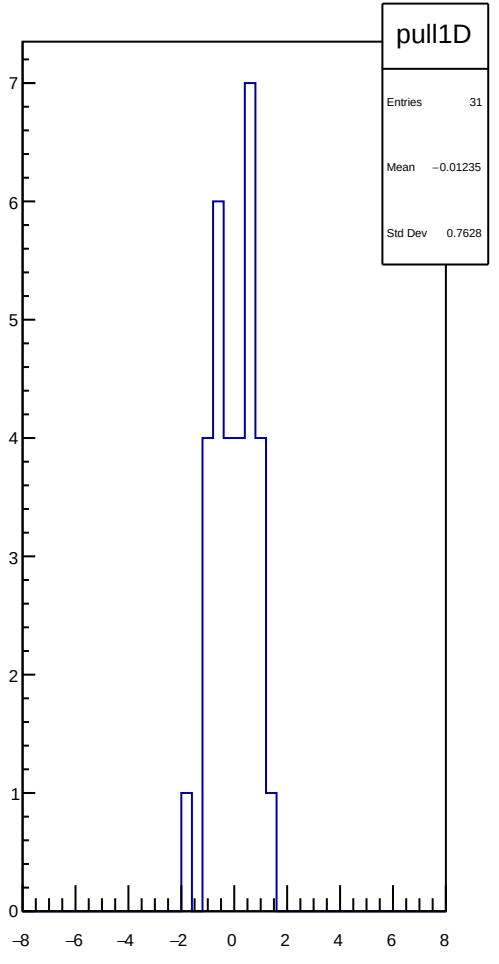

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 974.2 / 30
p0 71.02 ± 0.09211
82
80
78
76
74
72
70
68
66
64
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

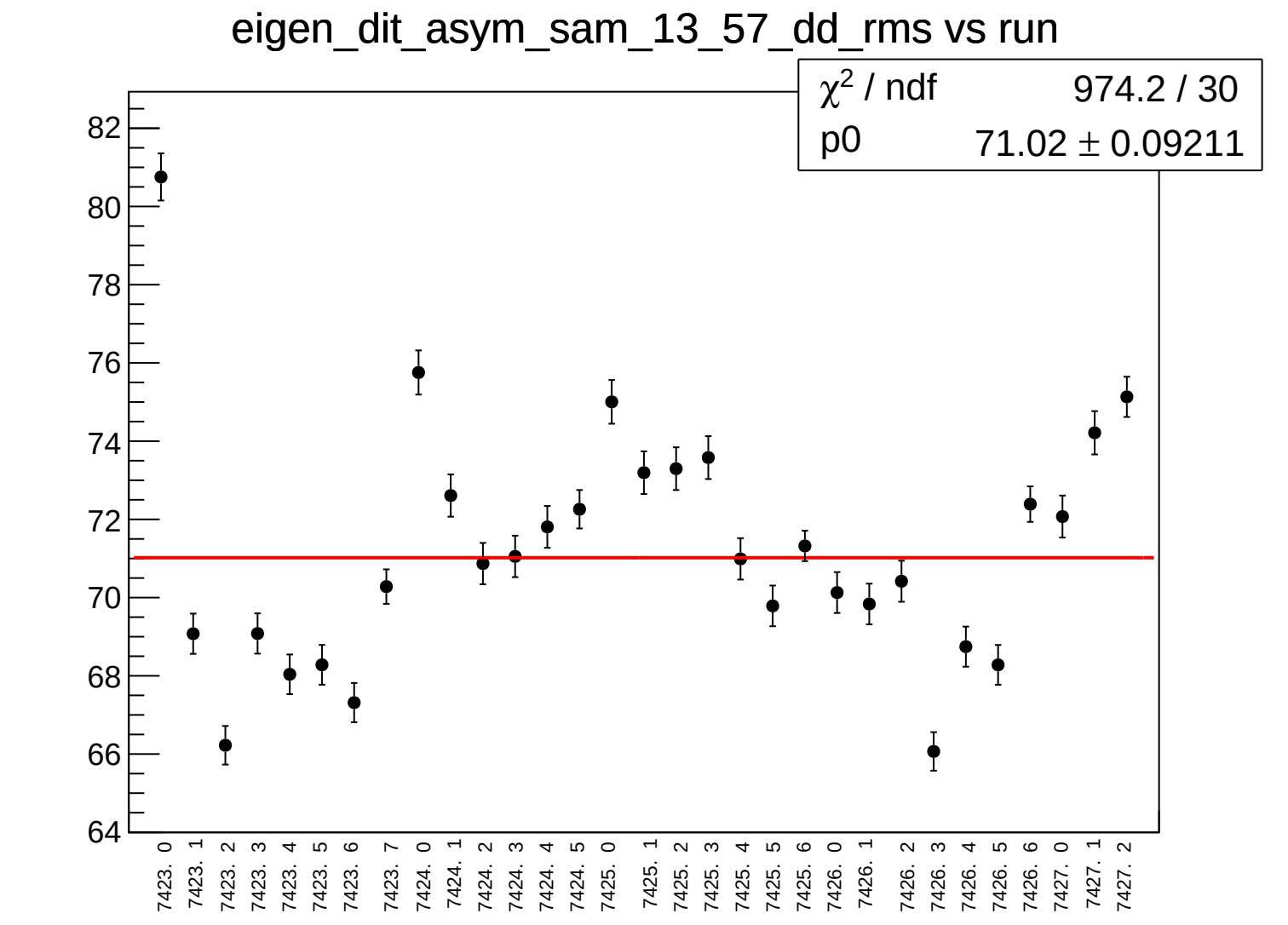

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 29.57 / 30
p0 236.4 ± 551.8
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 25.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

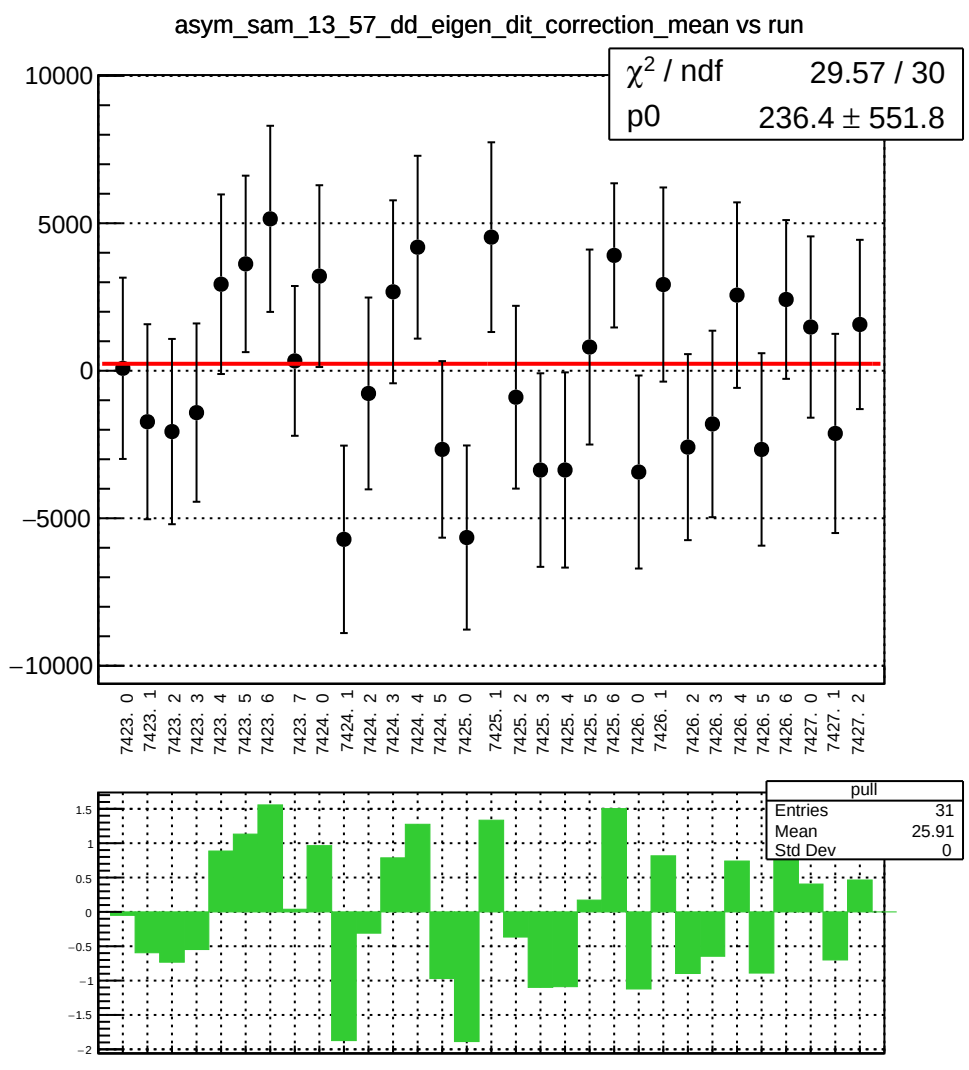

pull1D
Entries 31
Mean −0.02847
Std Dev 0.9763
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

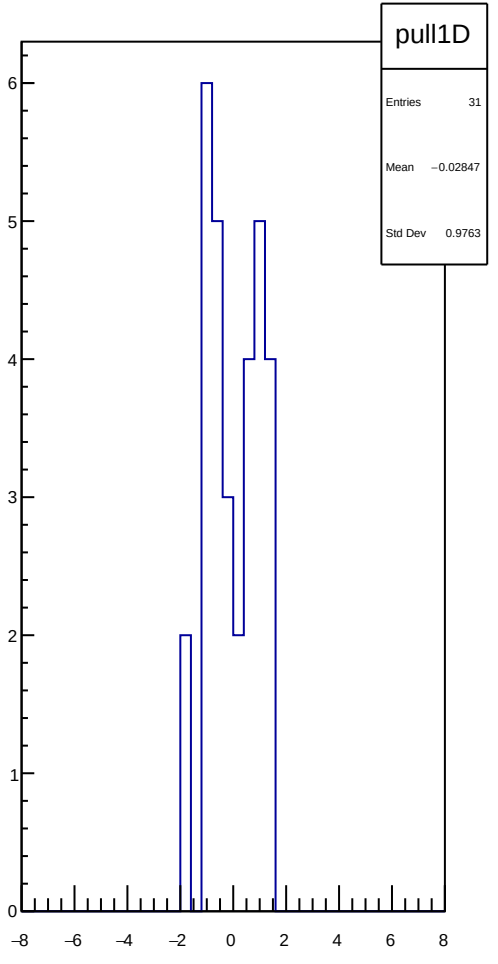

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 666.6 / 30
p0 300.9 ± 0.3902
325
320
315
310
305
300
295
290
285
280
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

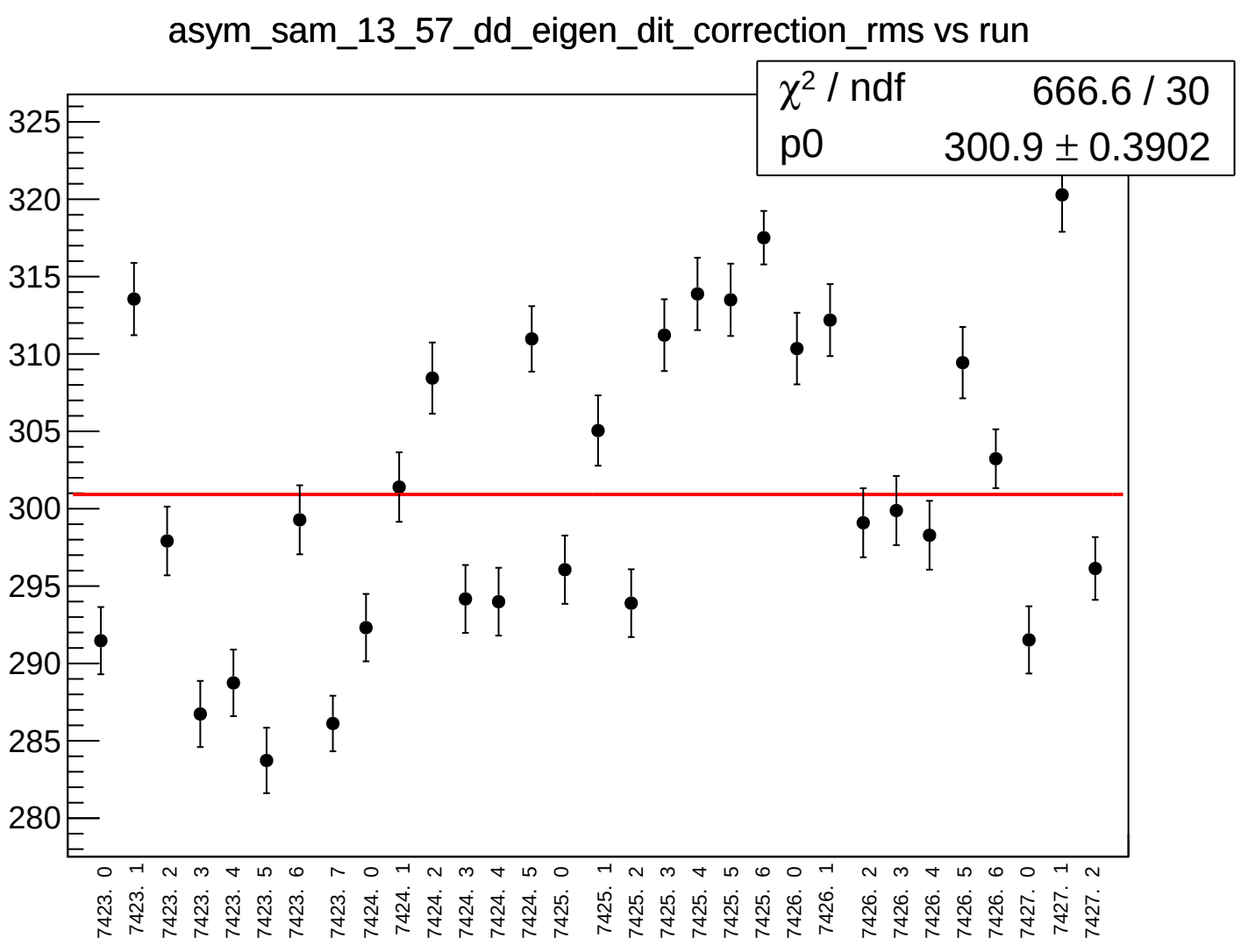

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 18.04 / 30
p0 −20.96 ± 130.3
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −32.37
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

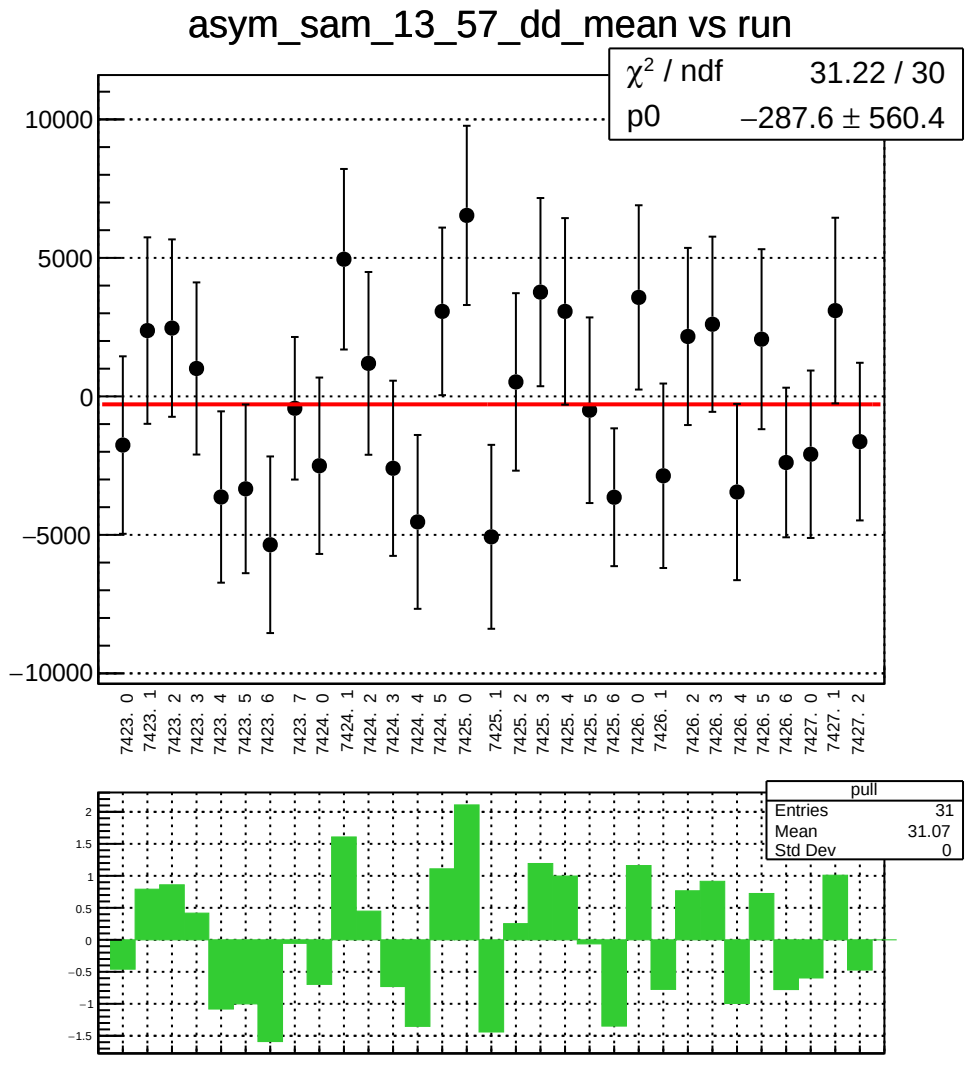

pull1D
Entries 31
Mean −0.01235
Std Dev 0.7628
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

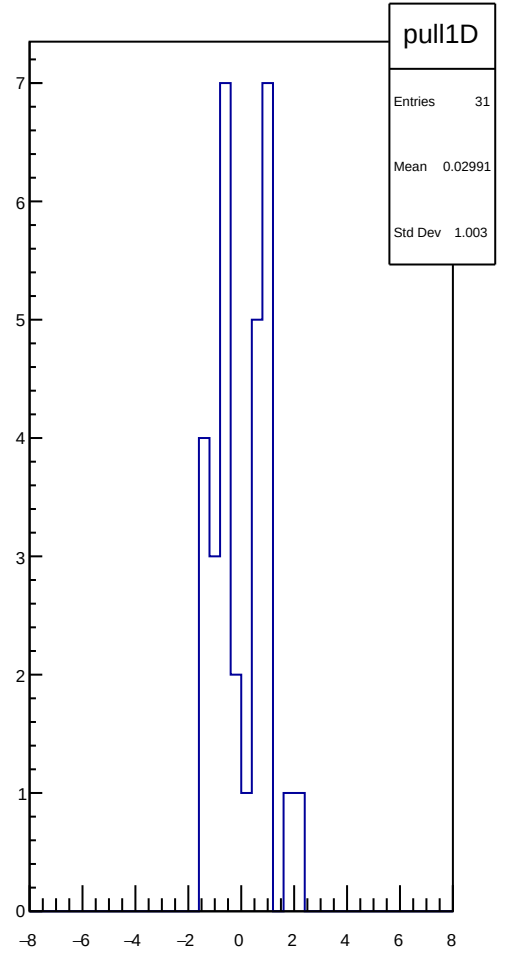

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 974.2 / 30
p0 71.02 ± 0.09211
82
80
78
76
74
72
70
68
66
64
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

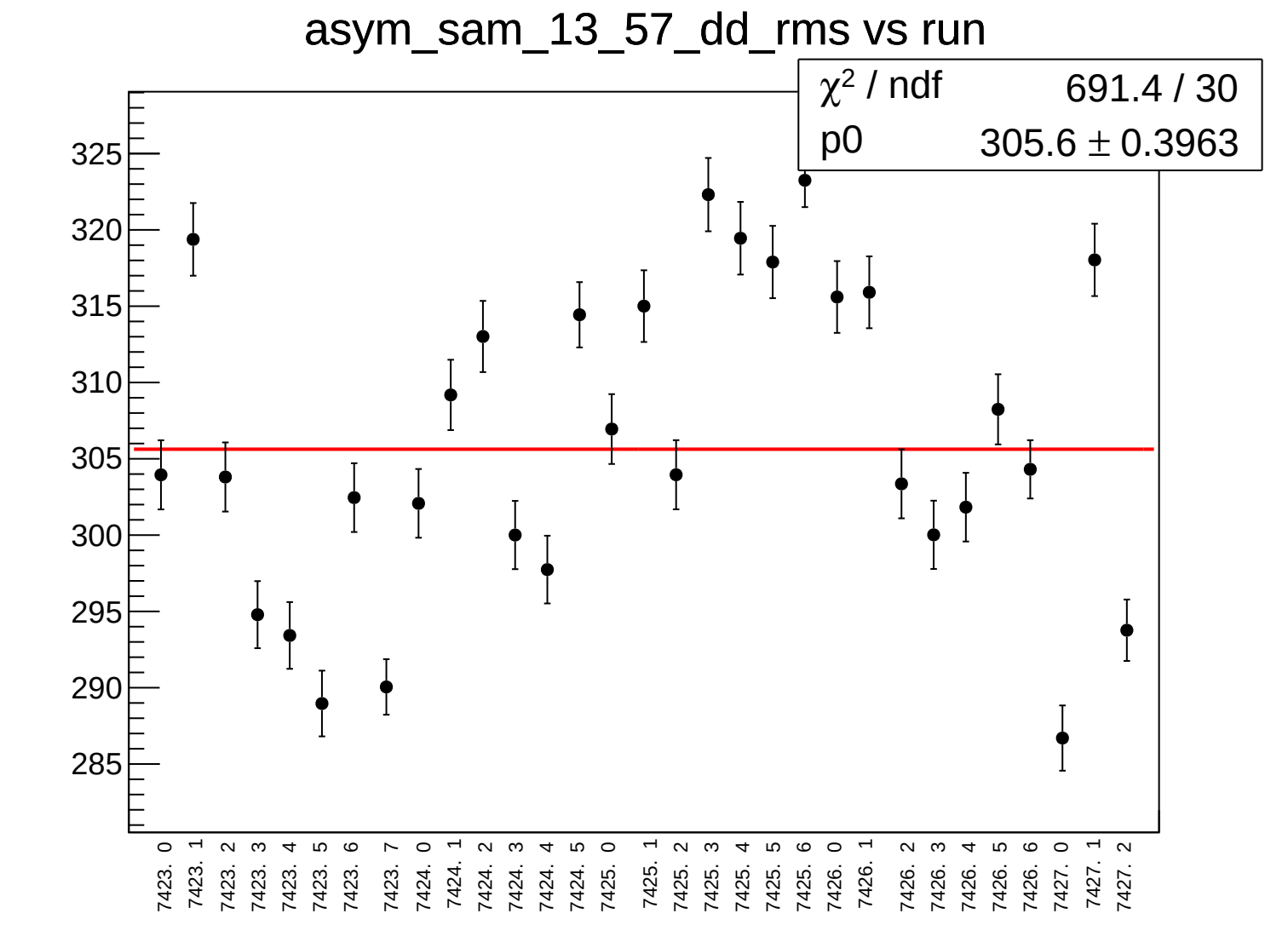

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 29.57 / 30
p0 236.4 ± 551.8
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 25.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

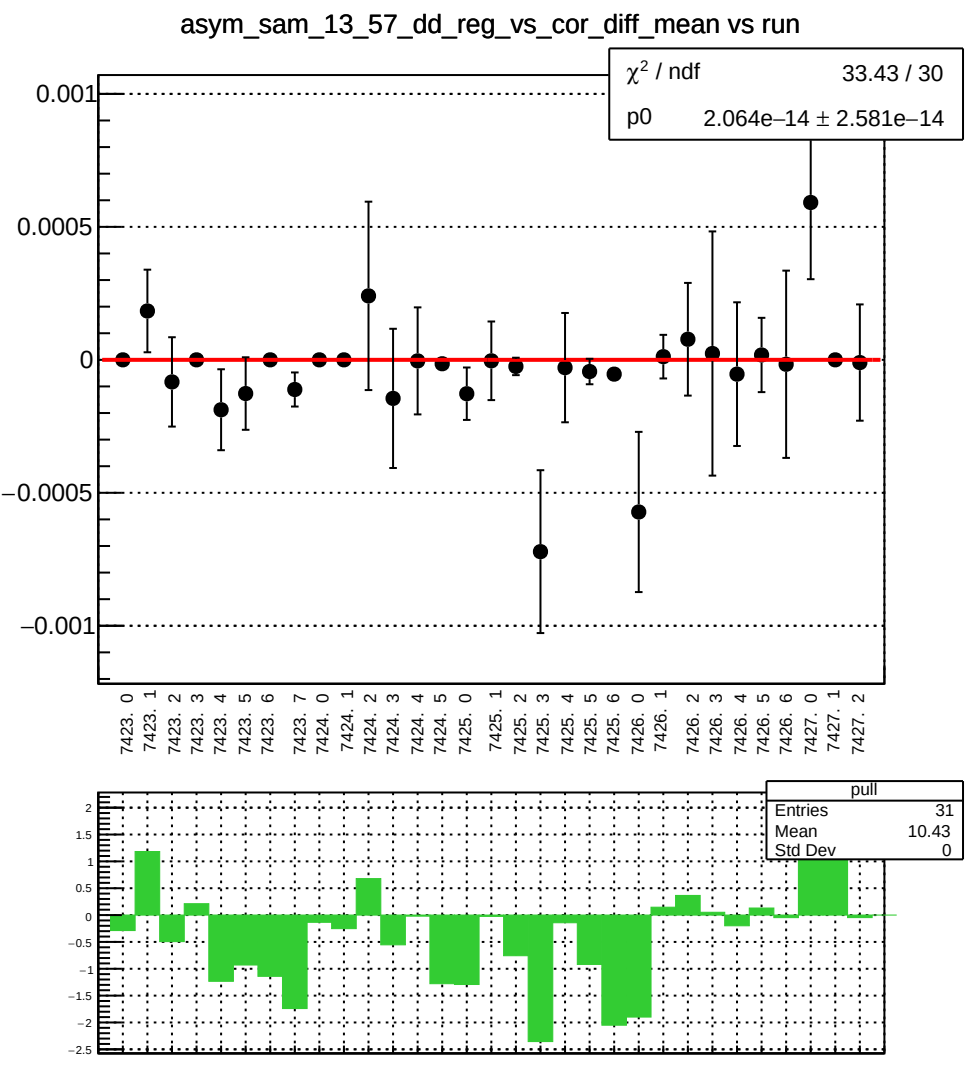

pull1D
Entries 31
Mean −0.02847
Std Dev 0.9763
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

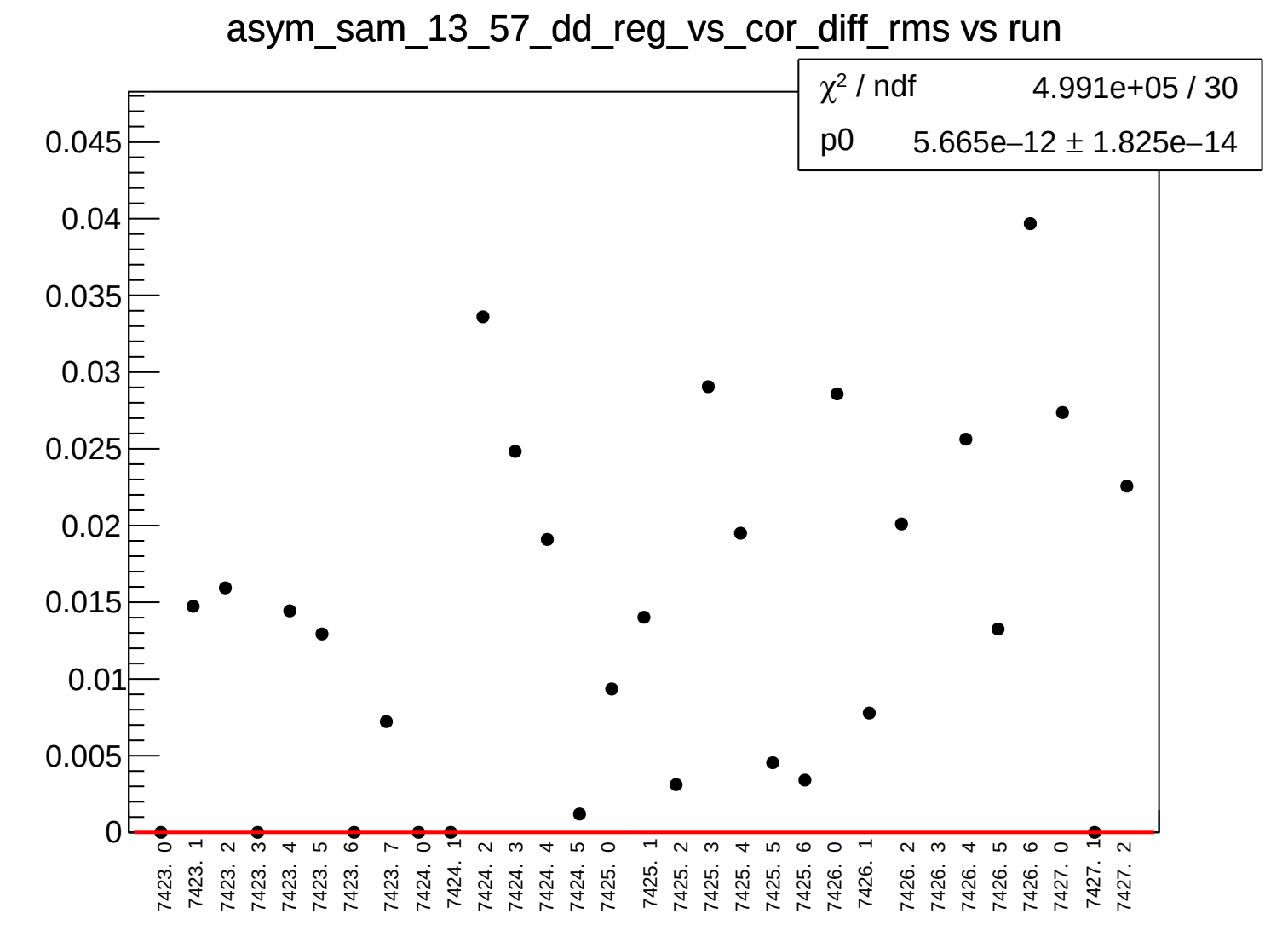

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 666.6 / 30
p0 300.9 ± 0.3902
325
320
315
310
305
300
295
290
285
280
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

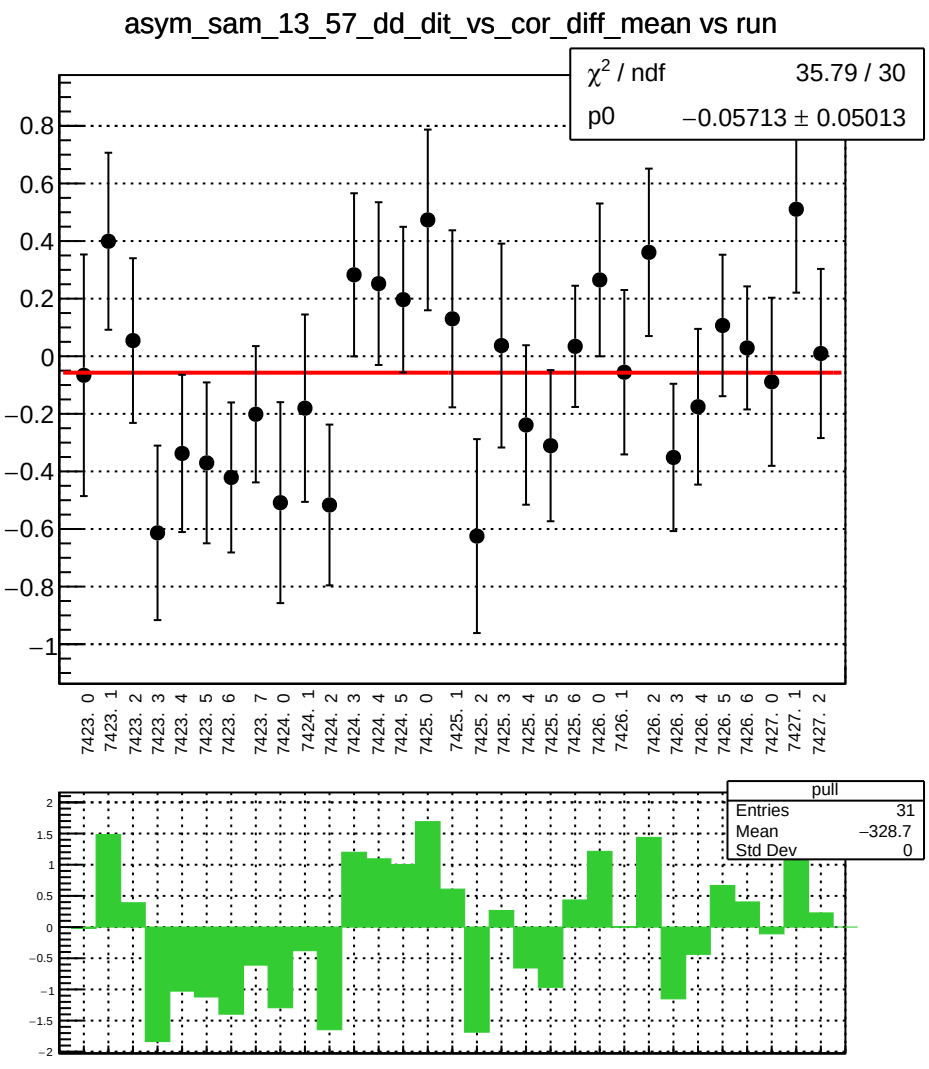

asym_sam_13_57_dd_mean vs run
χ² / ndf 31.22 / 30
p0 −287.6 ± 560.4
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 31.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

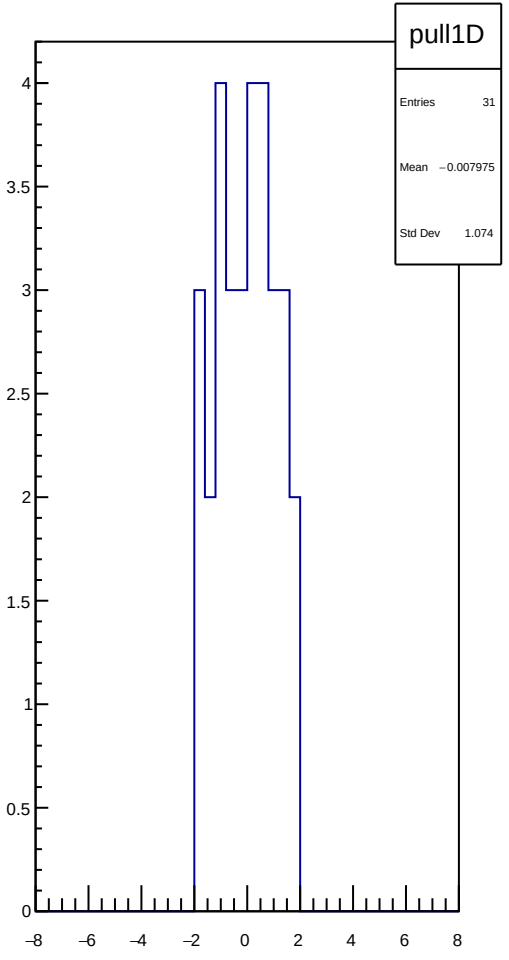

pull1D
Entries 31
Mean 0.02991
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

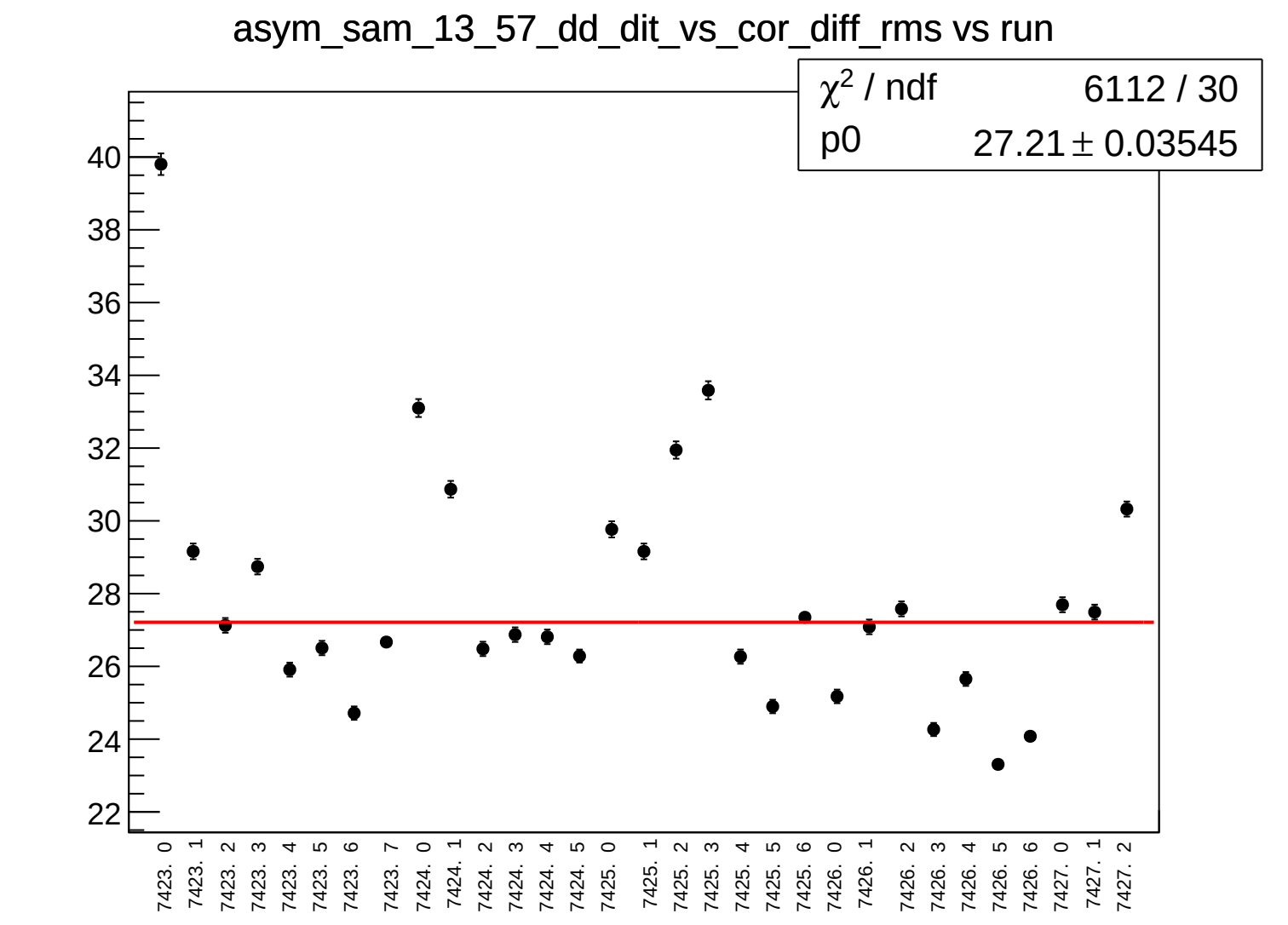

asym_sam_13_57_dd_rms vs run
χ² / ndf 691.4 / 30
p0 305.6 ± 0.3963
325
320
315
310
305
300
295
290
285
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

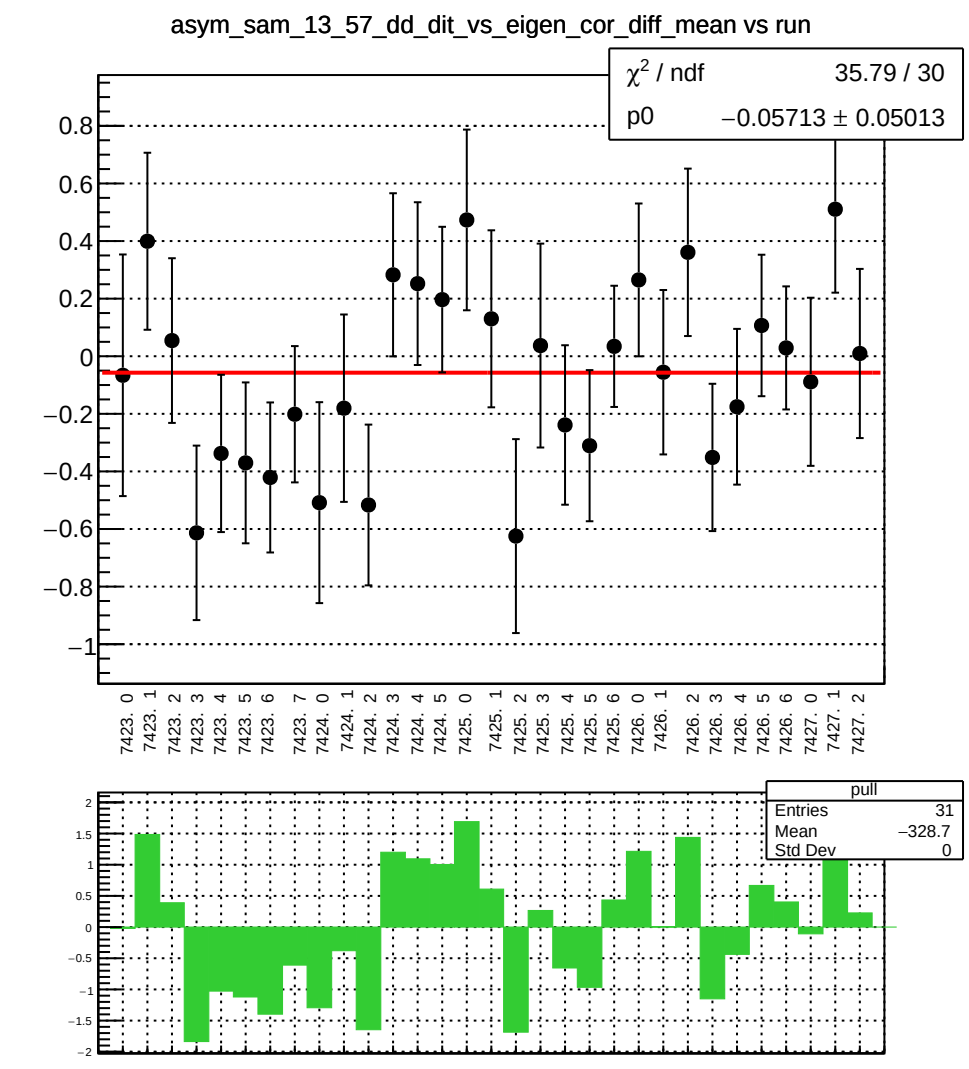

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 33.43 / 30
p0 2.064e−14 ± 2.581e−14
0.001
0.0005
0
−0.0005
−0.001
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 10.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.3783
Std Dev 0.9671
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

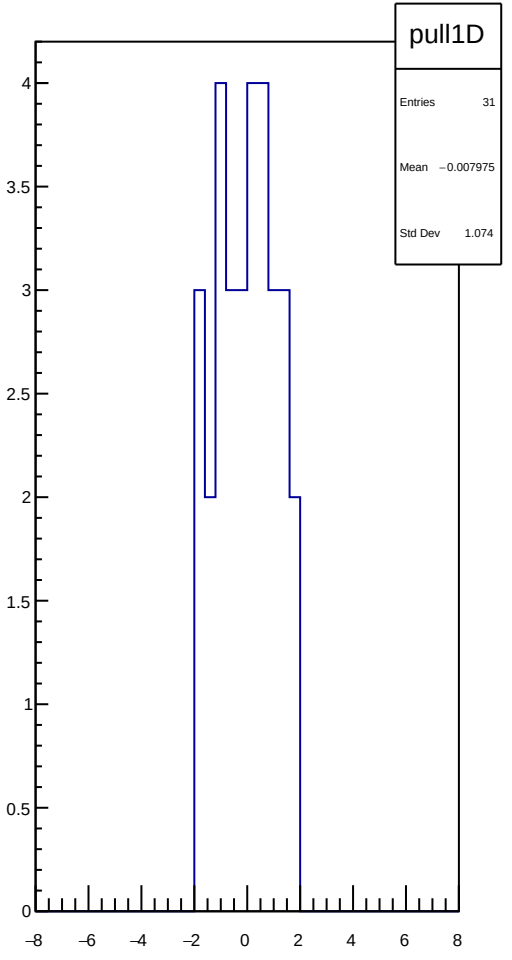

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.991e+05 / 30
p0 5.665e−12 ± 1.825e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

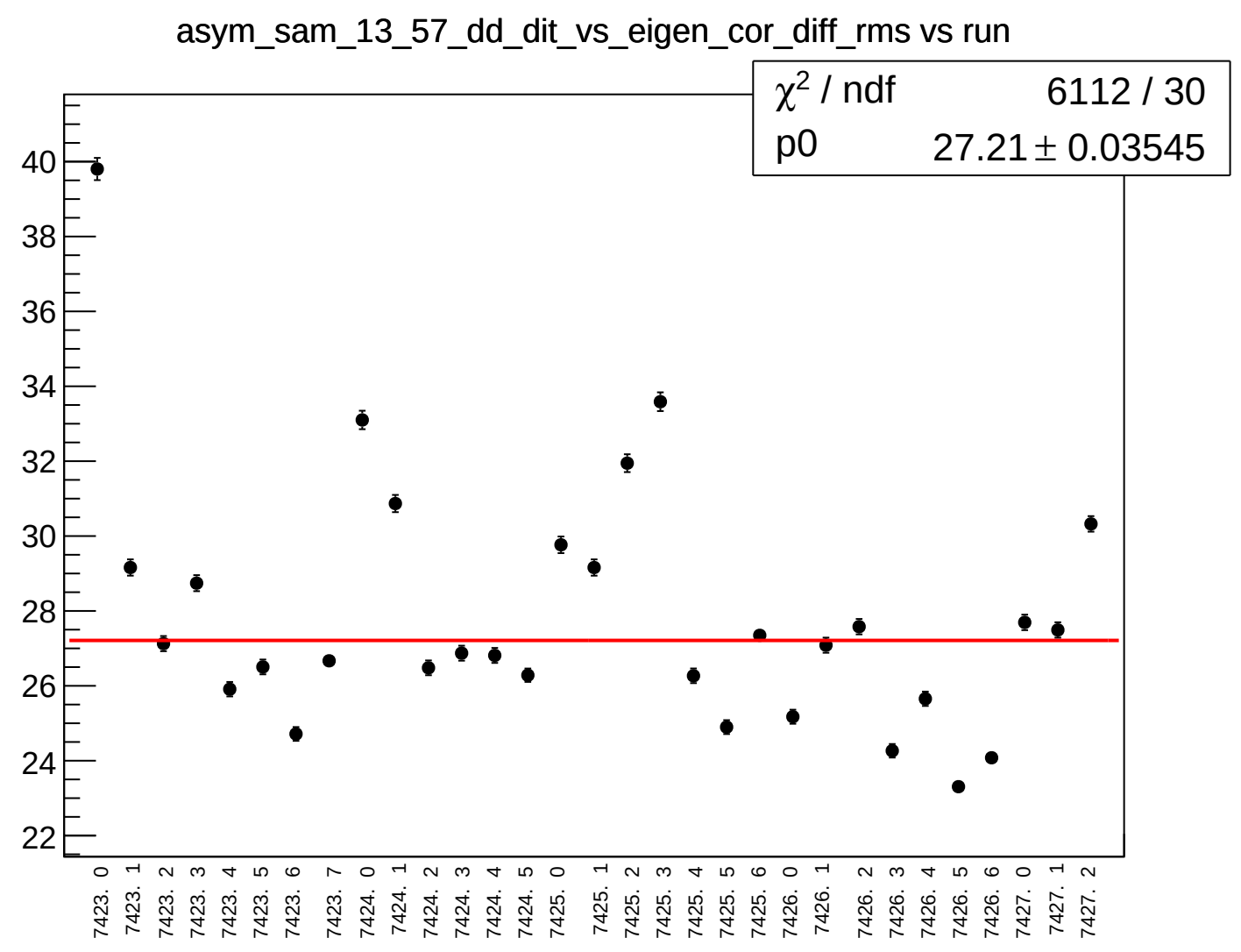

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.79 / 30
p0 −0.05713 ± 0.05013
pull
Entries 31
Mean −328.7
Std Dev 0

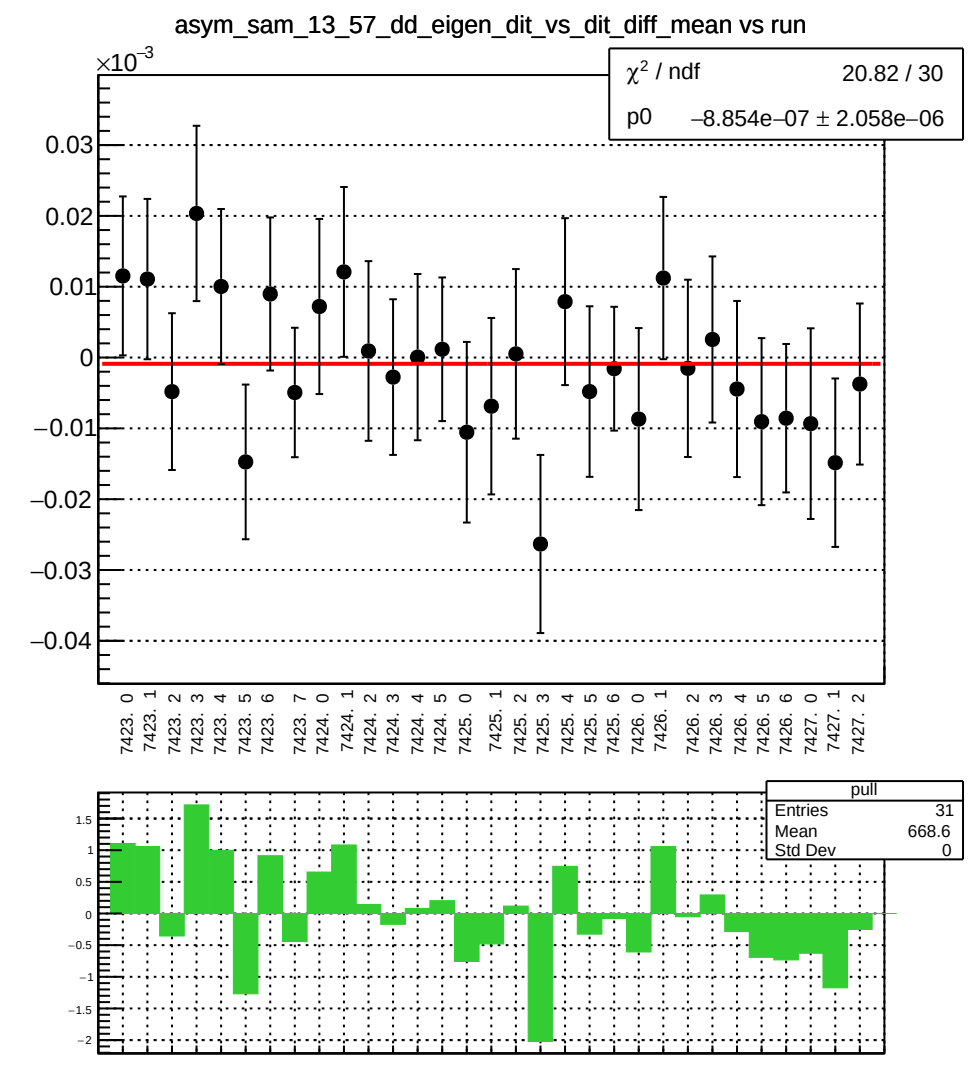

pull1D
Entries 31
Mean −0.007975
Std Dev 1.074

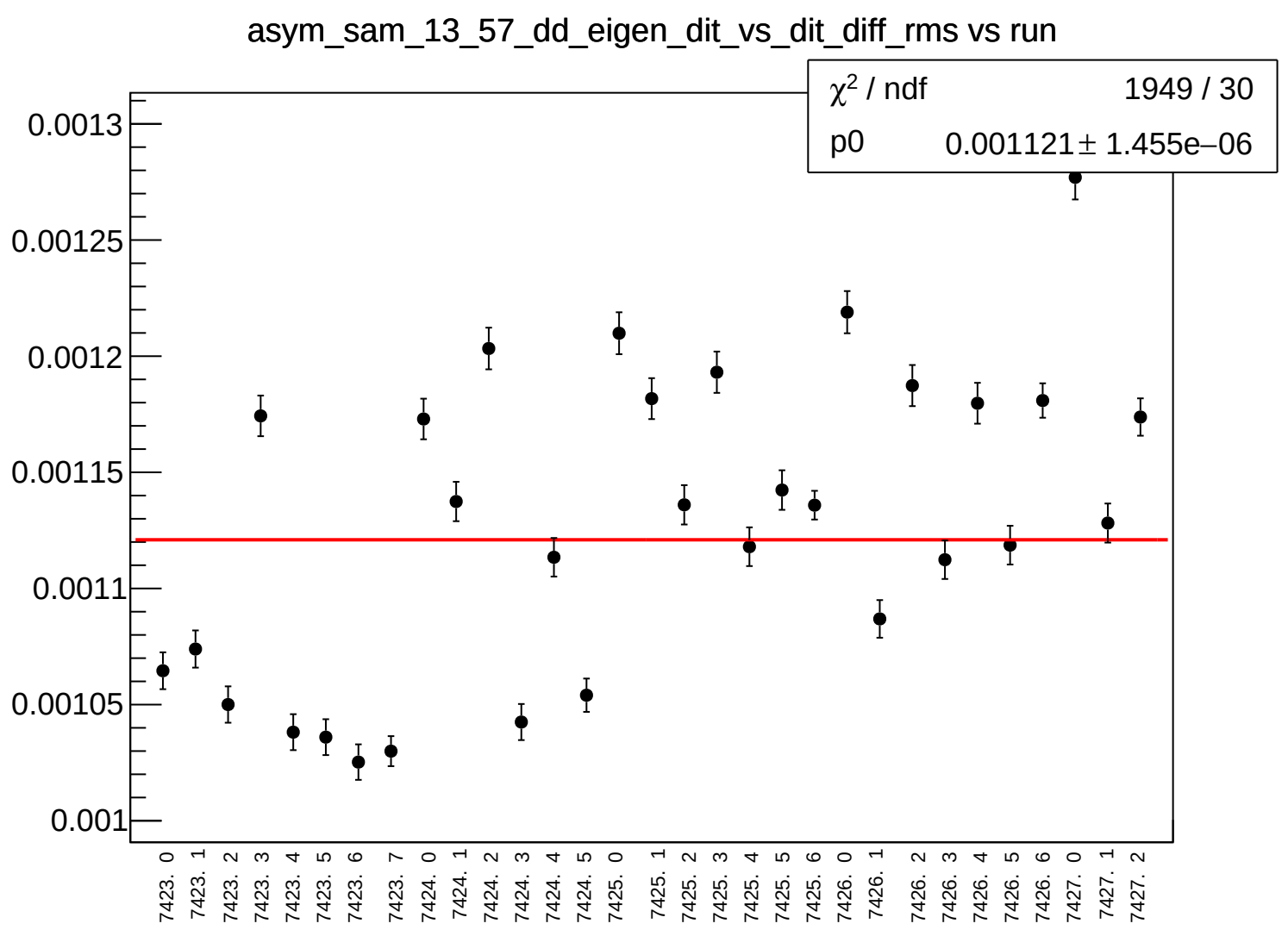

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6112 / 30
p0 27.21 ± 0.03545
40
38
36
34
32
30
28
26
24
22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

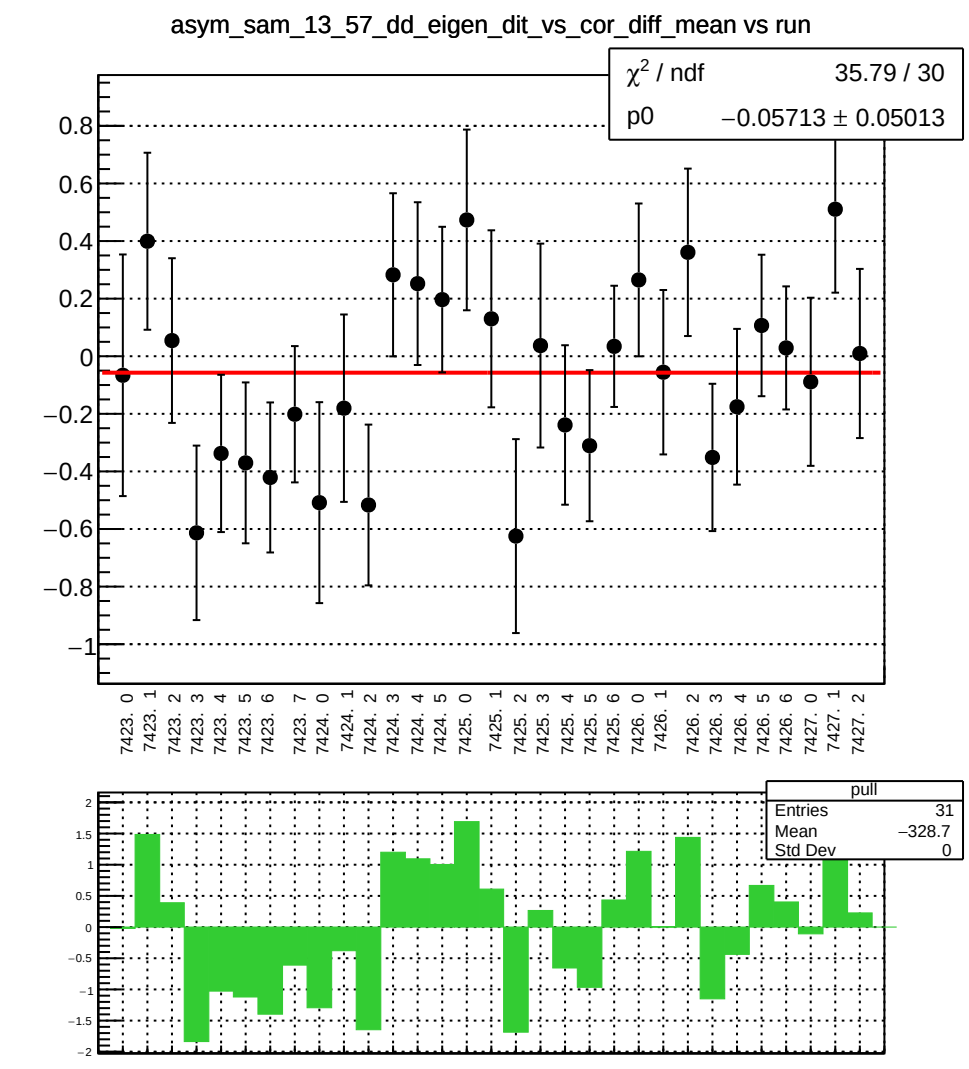

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.79 / 30
p0 −0.05713 ± 0.05013
pull
Entries 31
Mean −328.7
Std Dev 0

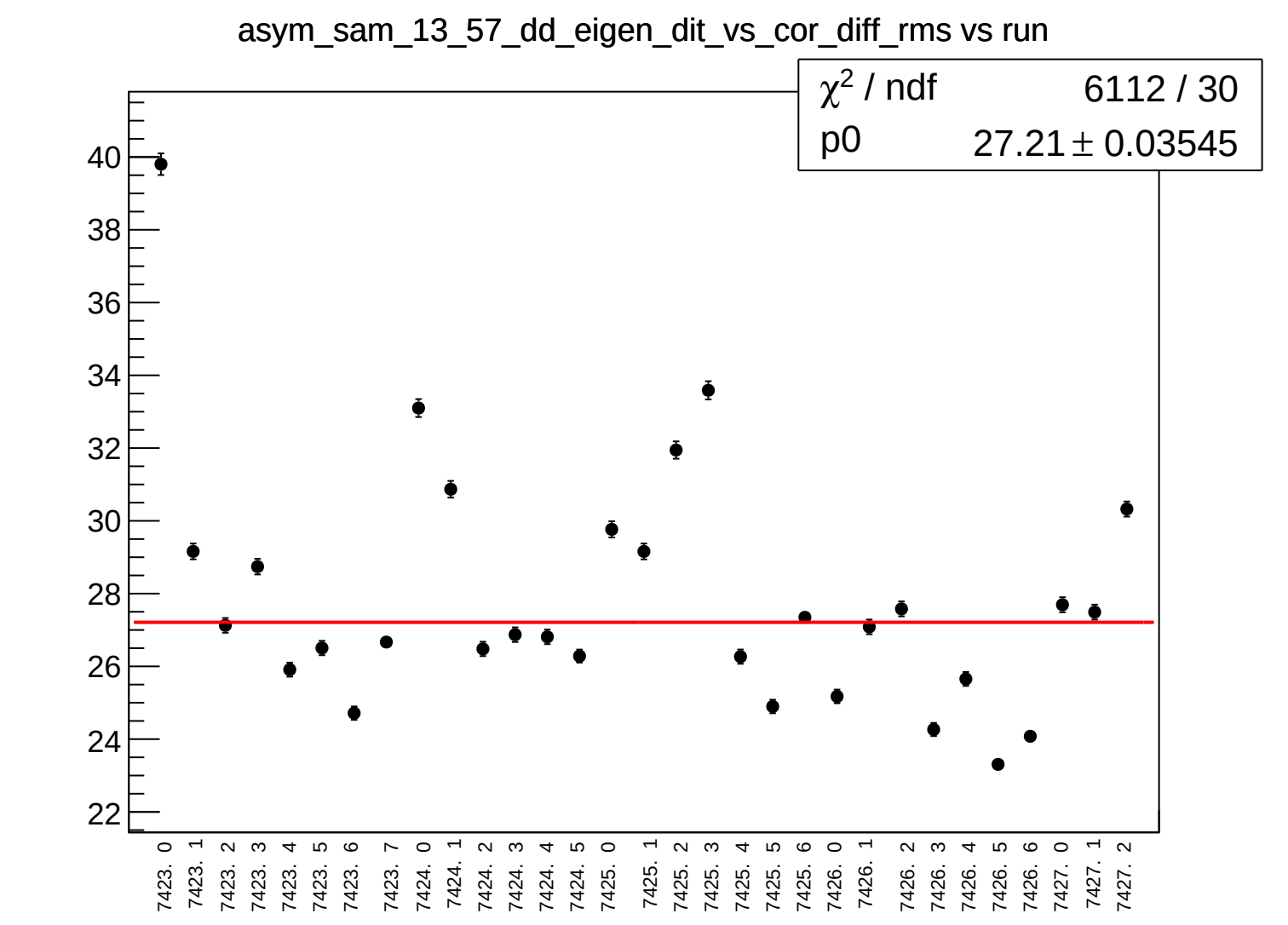

pull1D
Entries 31
Mean −0.007975
Std Dev 1.074

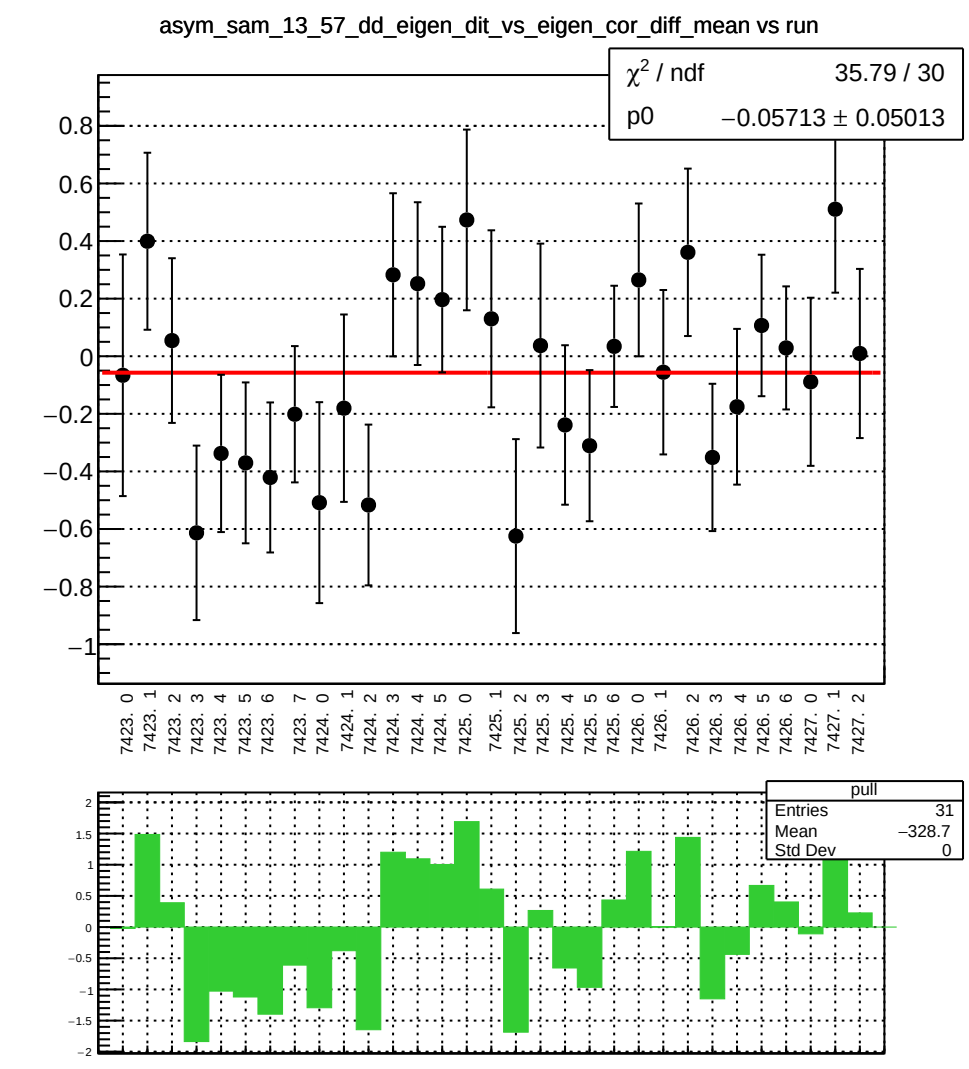

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6112 / 30
p0 27.21 ± 0.03545
40
38
36
34
32
30
28
26
24
22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

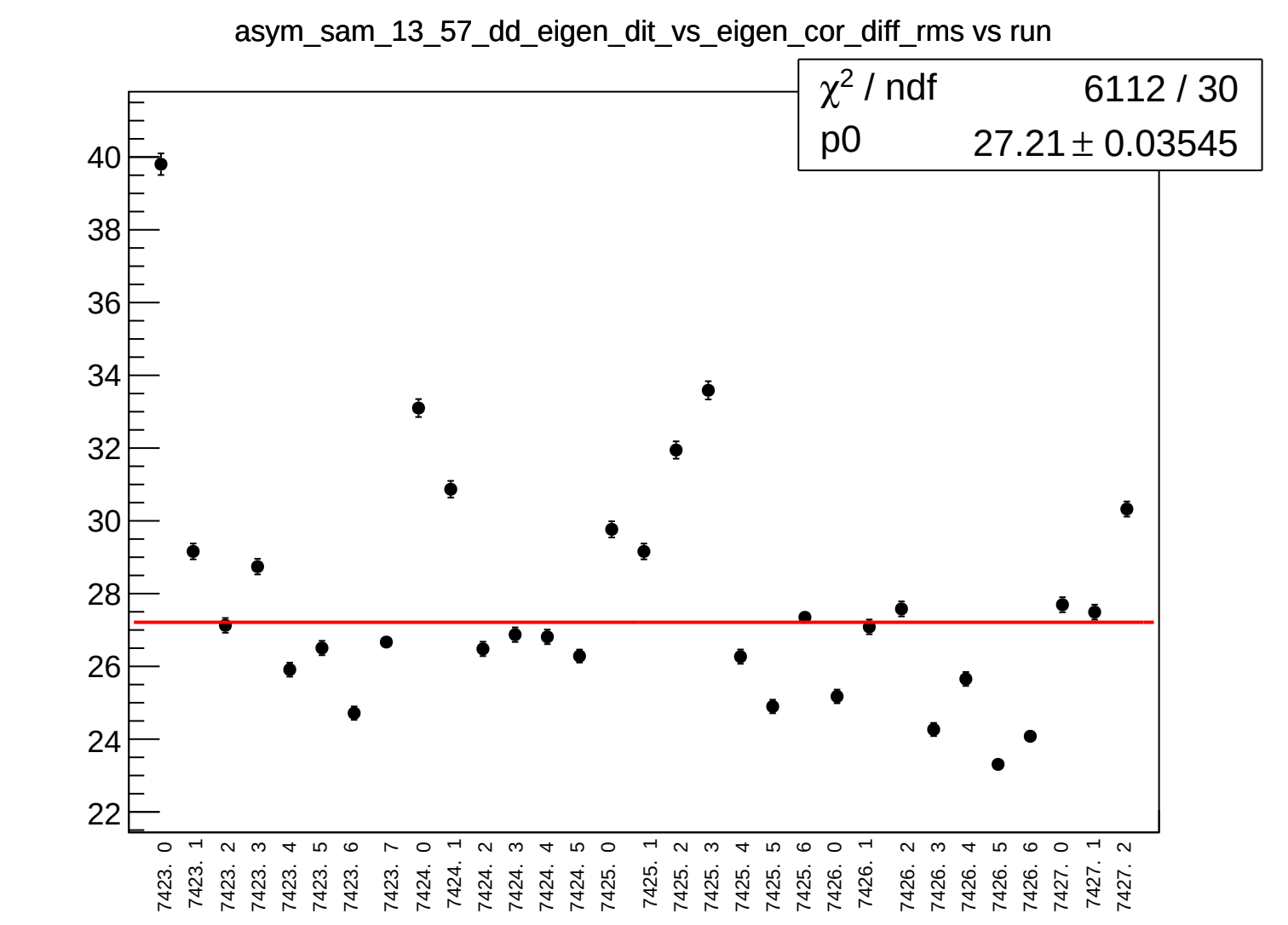

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 20.82 / 30
p0 −8.854e−07 ± 2.058e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 668.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.005253
Std Dev 0.8196
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

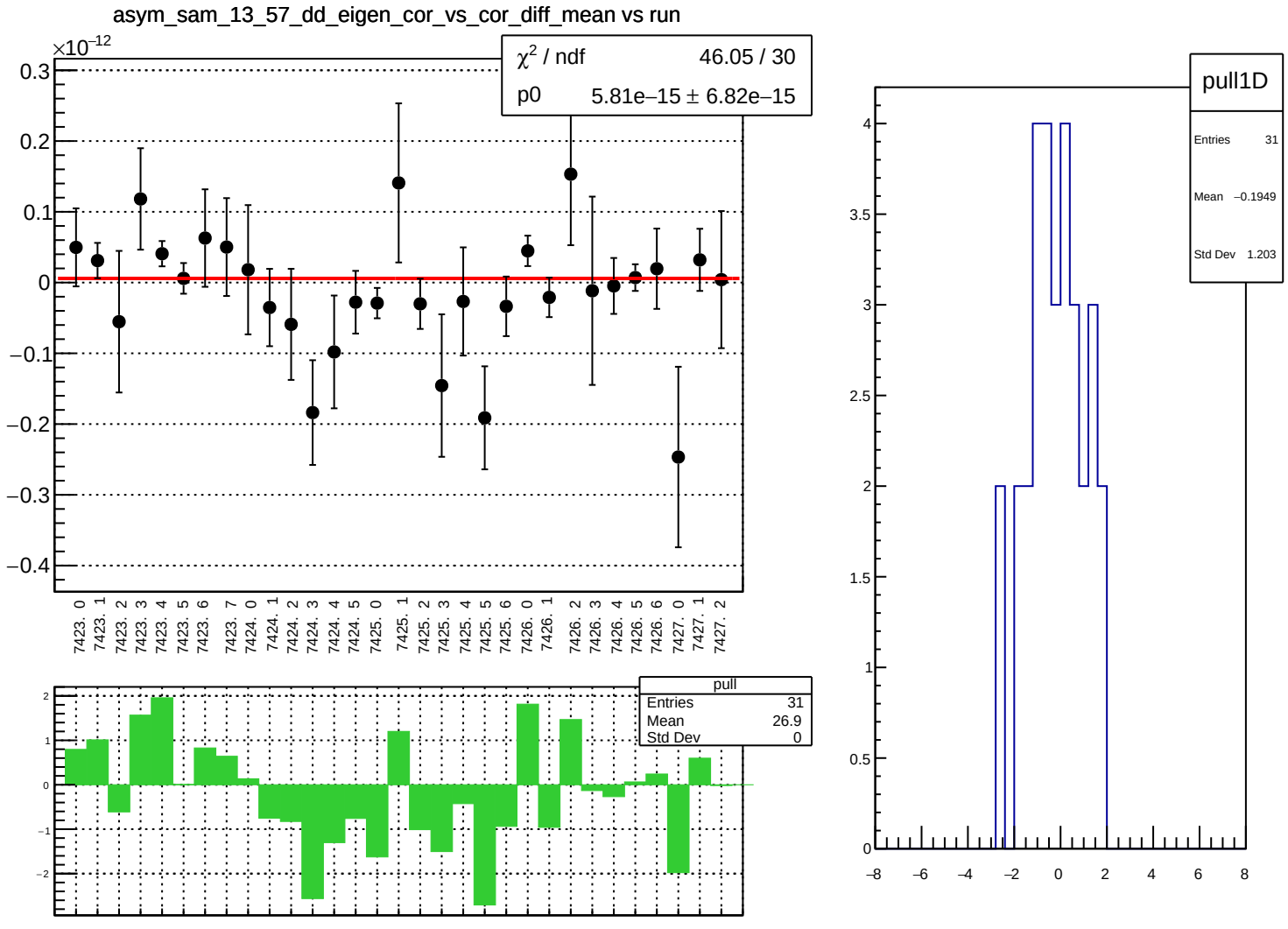

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1949 / 30
p0 0.001121 ± 1.455e−06
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
0.001
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

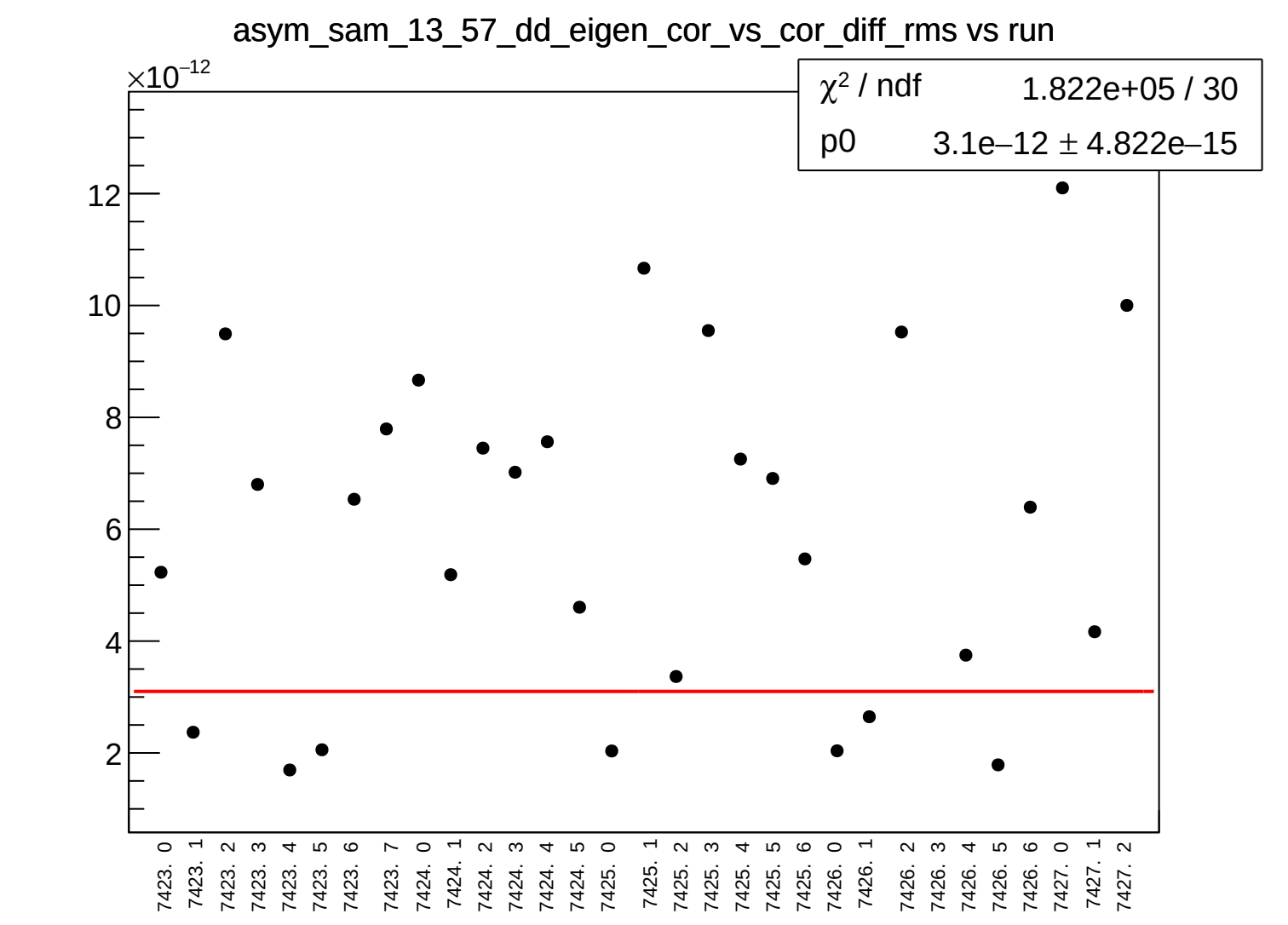

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.79 / 30
p0 −0.05713 ± 0.05013
pull
Entries 31
Mean −328.7
Std Dev 0
pull1D
Entries 31
Mean −0.007974
Std Dev 1.074

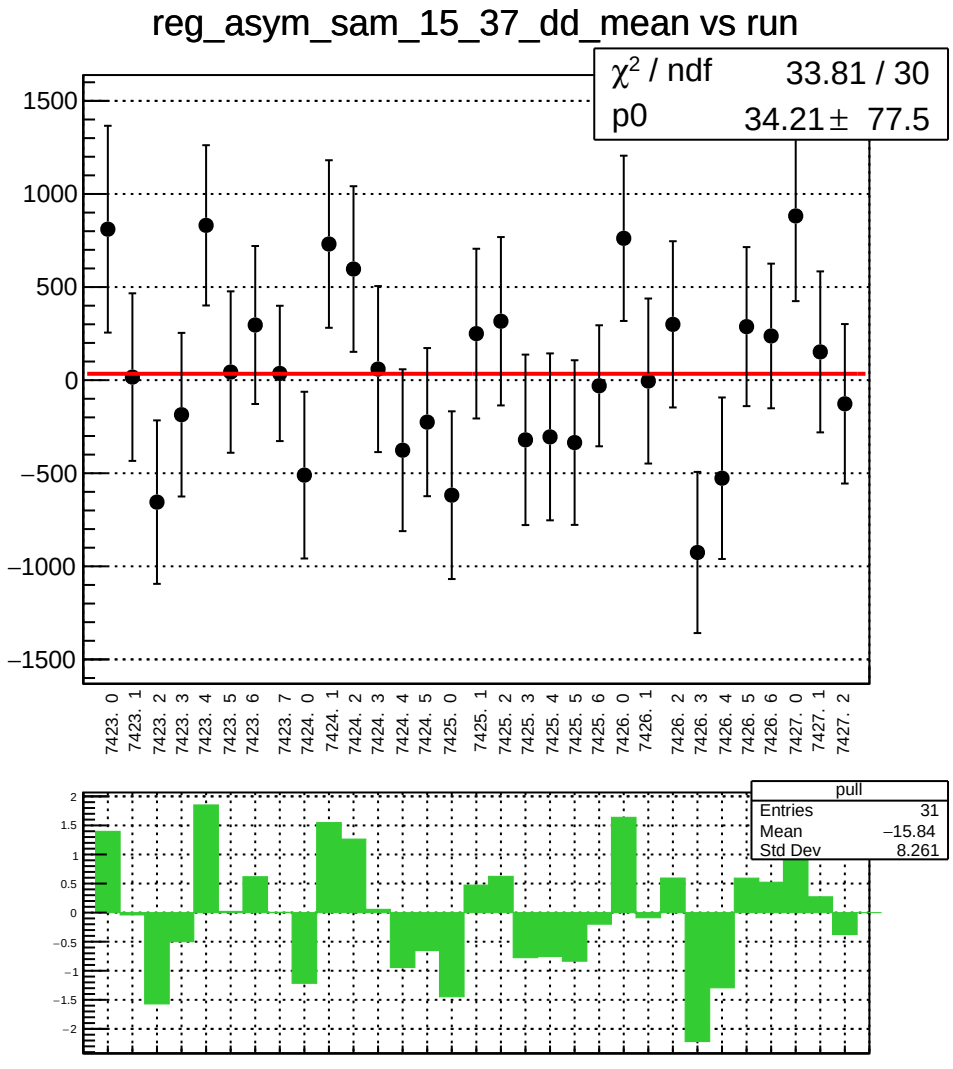

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6112 / 30
p0 27.21 ± 0.03545
40
38
36
34
32
30
28
26
24
22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

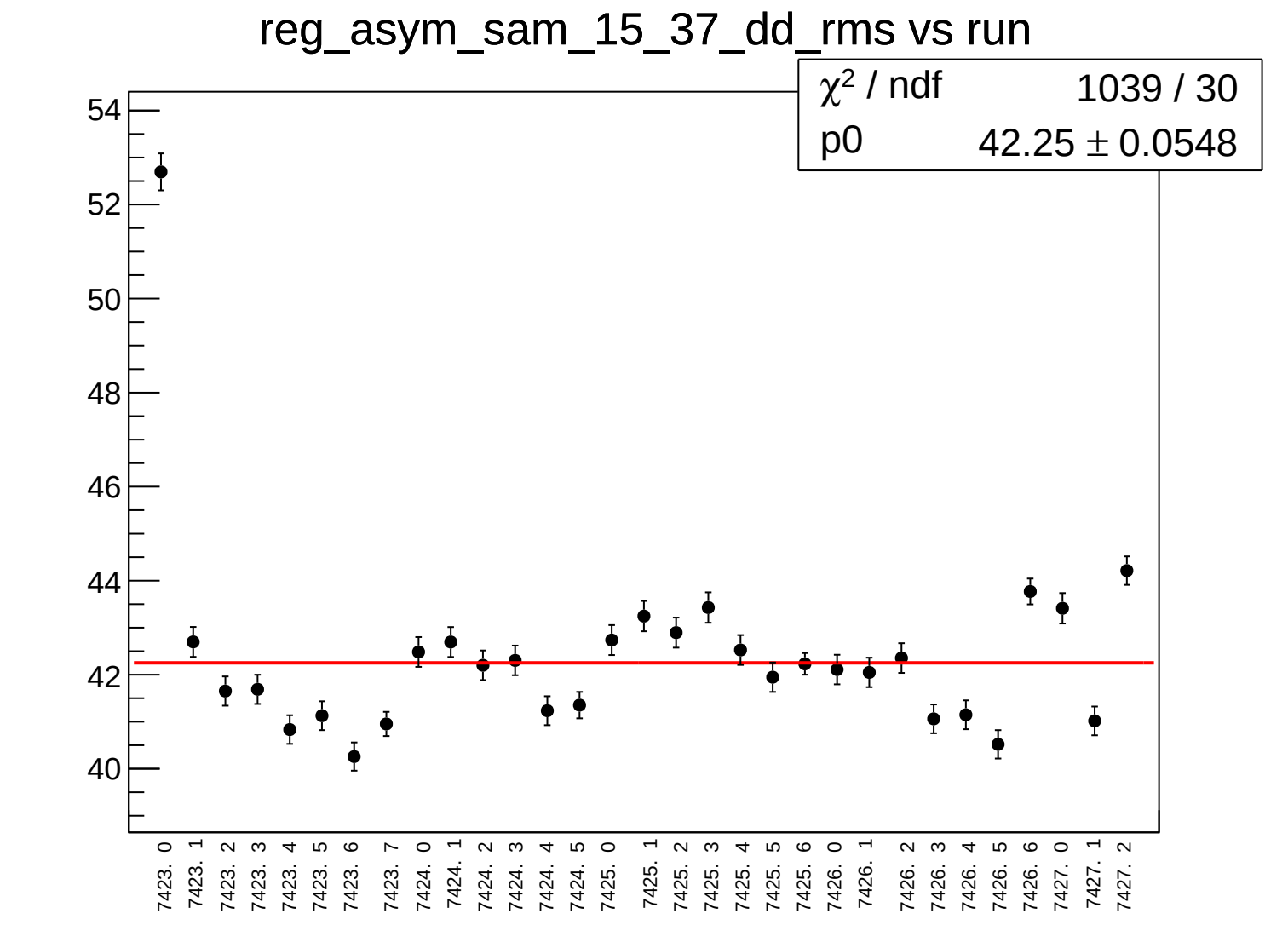

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.79 / 30
p0 −0.05713 ± 0.05013
pull
Entries 31
Mean −328.7
Std Dev 0
pull1D
Entries 31
Mean −0.007974
Std Dev 1.074

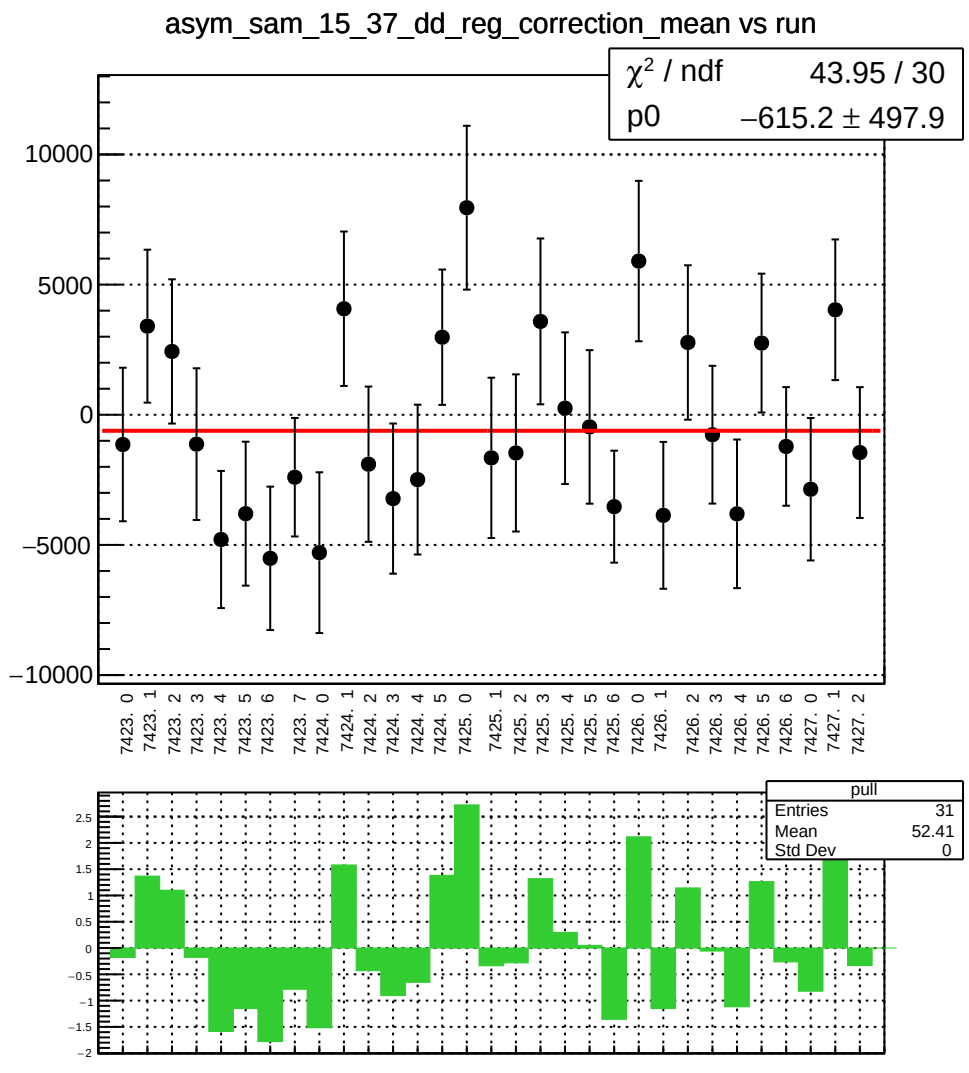

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6112 / 30
p0 27.21 ± 0.03545
40
38
36
34
32
30
28
26
24
22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

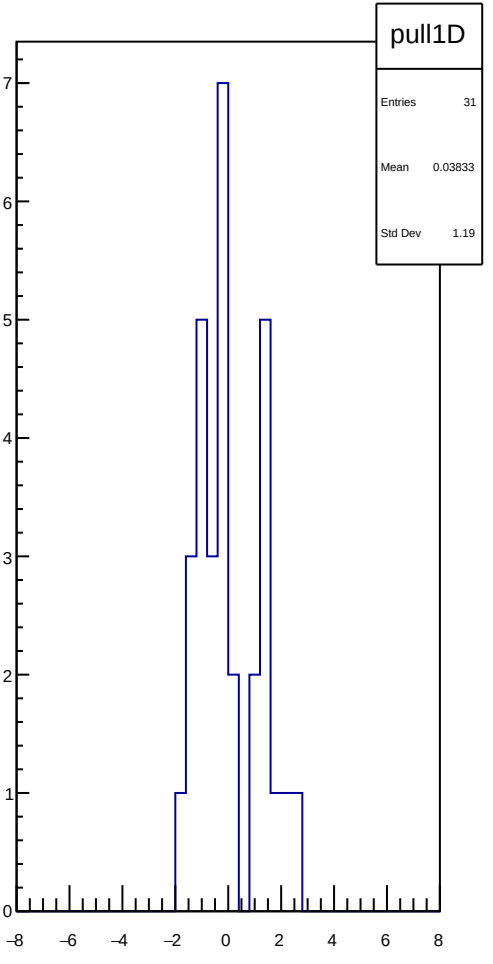

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.05 / 30
p0 5.81e−15 ± 6.82e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 26.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.1949
Std Dev 1.203
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

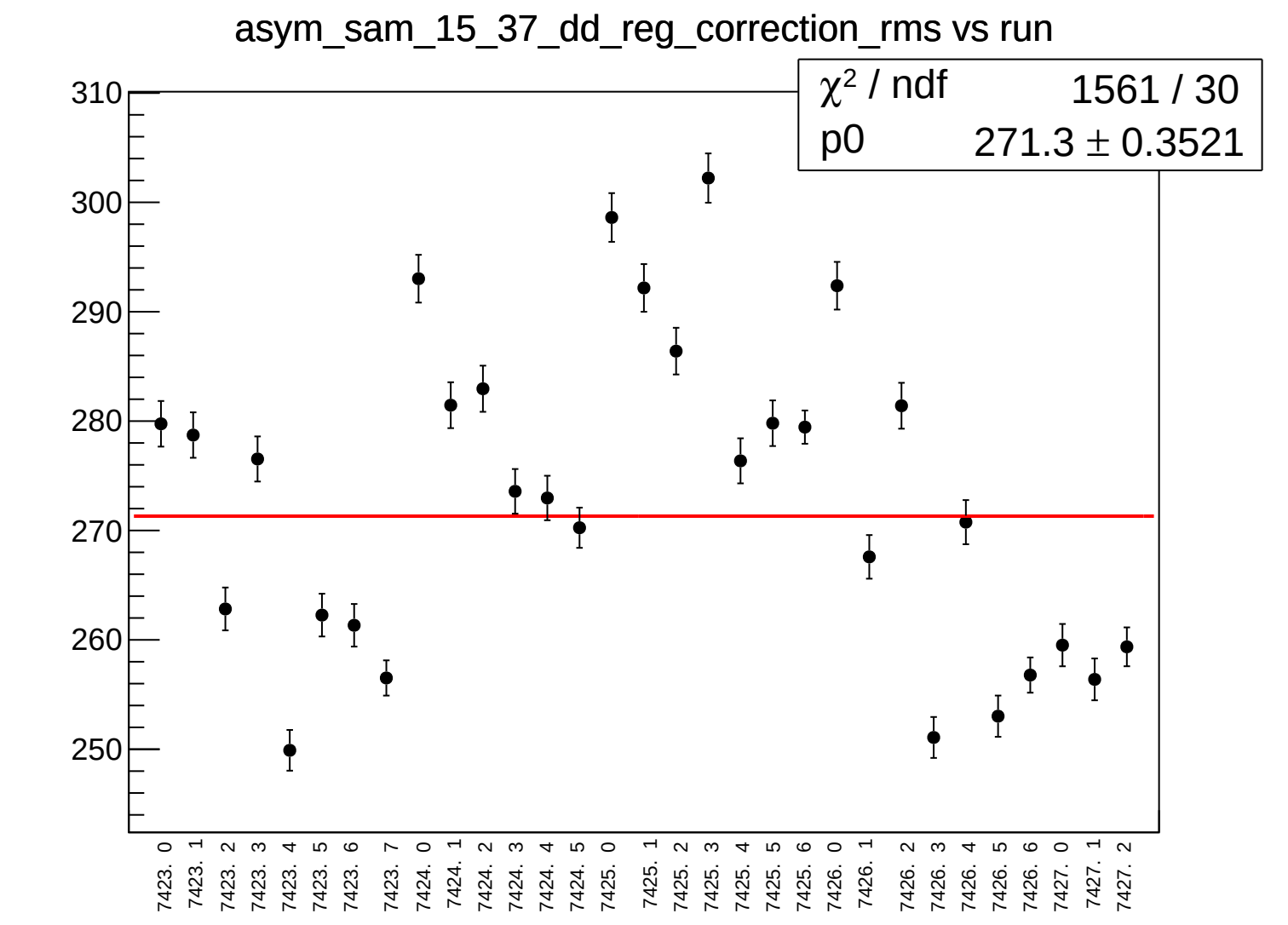

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.822e+05 / 30
p0 3.1e−12 ± 4.822e−15
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

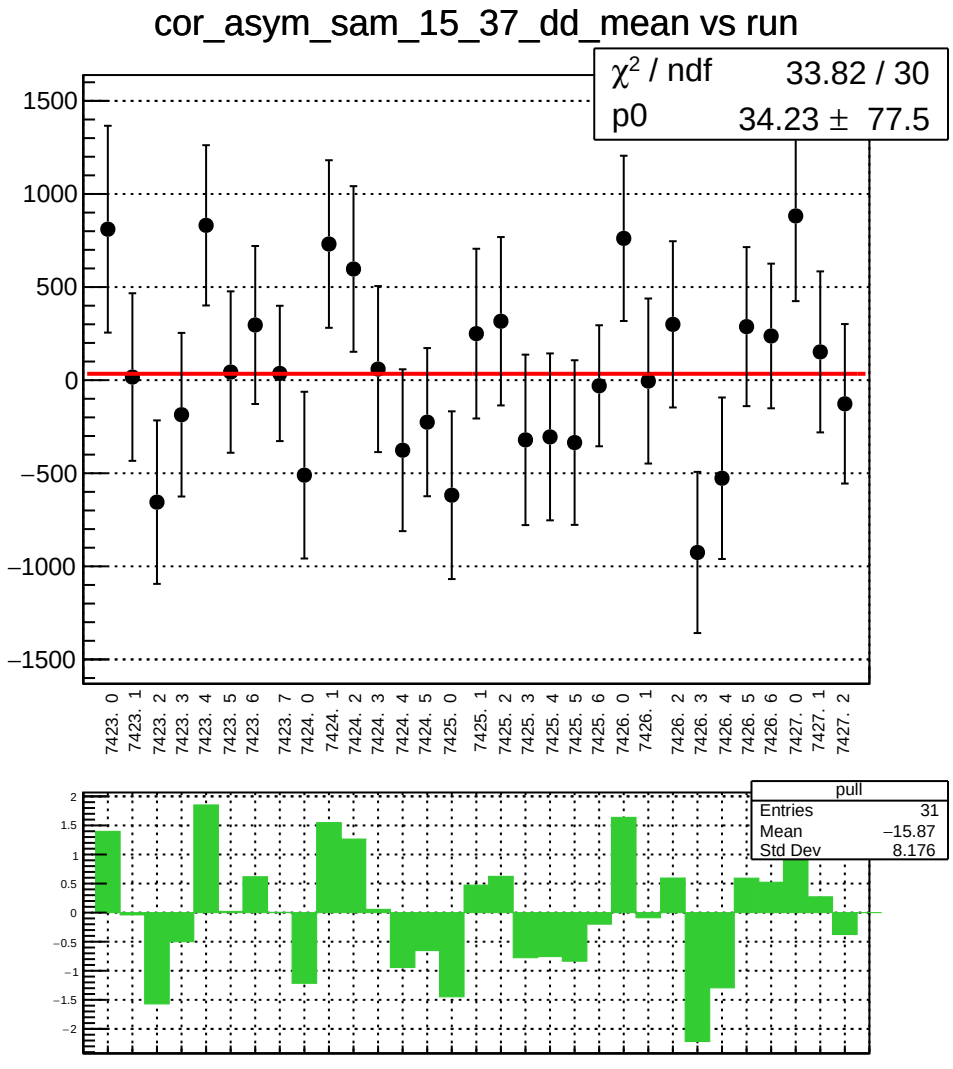

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 33.81 / 30
p0 34.21 ± 77.5
1500
1000
500
0
−500
−1000
−1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −15.84
Std Dev 8.261
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01374
Std Dev 1.044
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

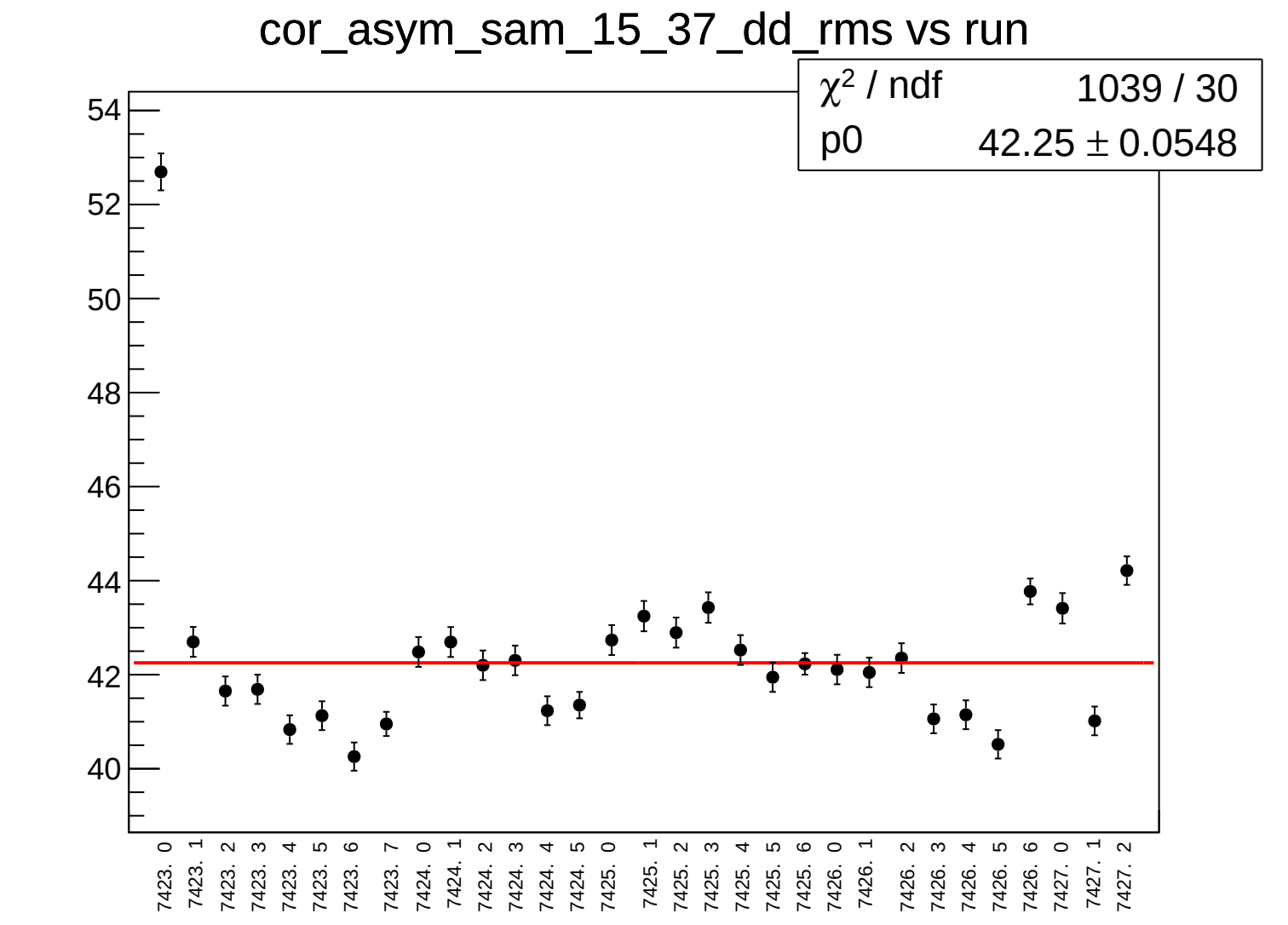

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1039 / 30
p0 42.25 ± 0.0548
54
52
50
48
46
44
42
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

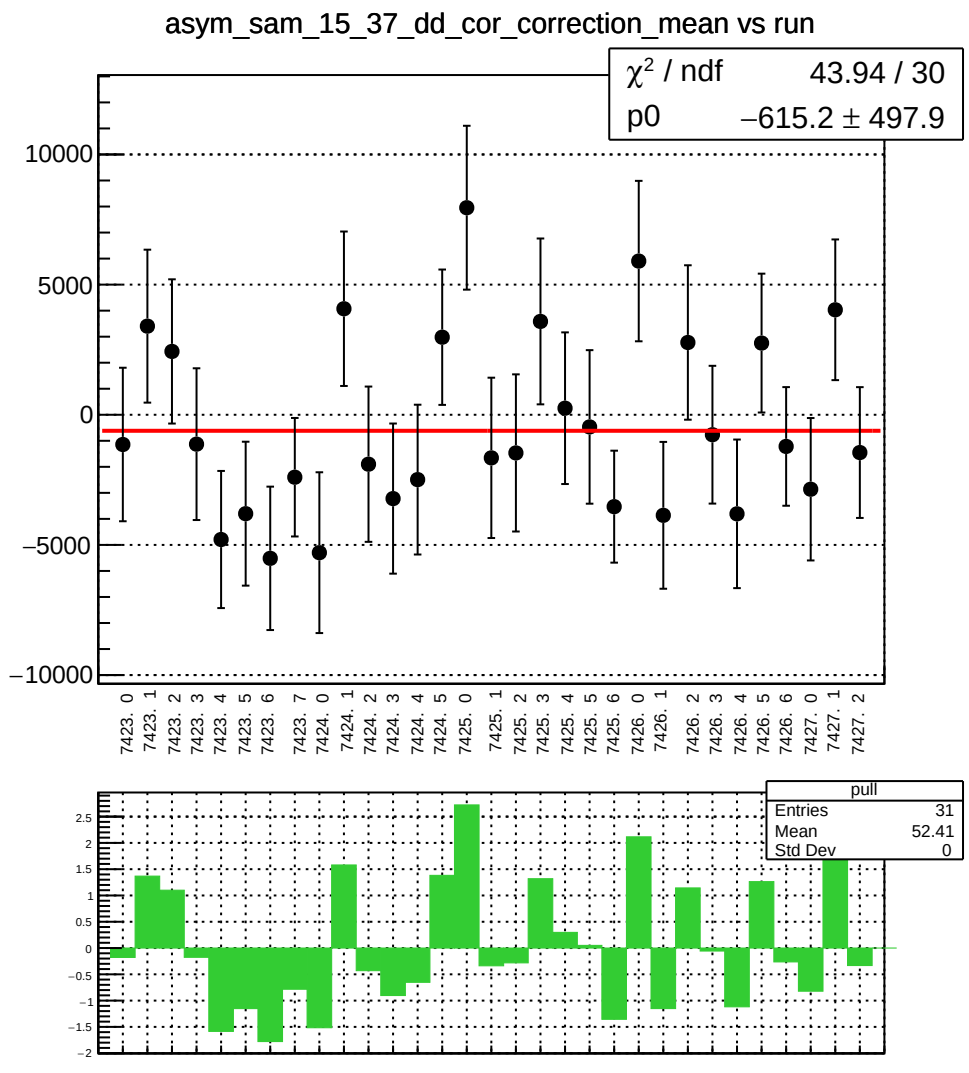

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 43.95 / 30
p0 −615.2 ± 497.9
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 52.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

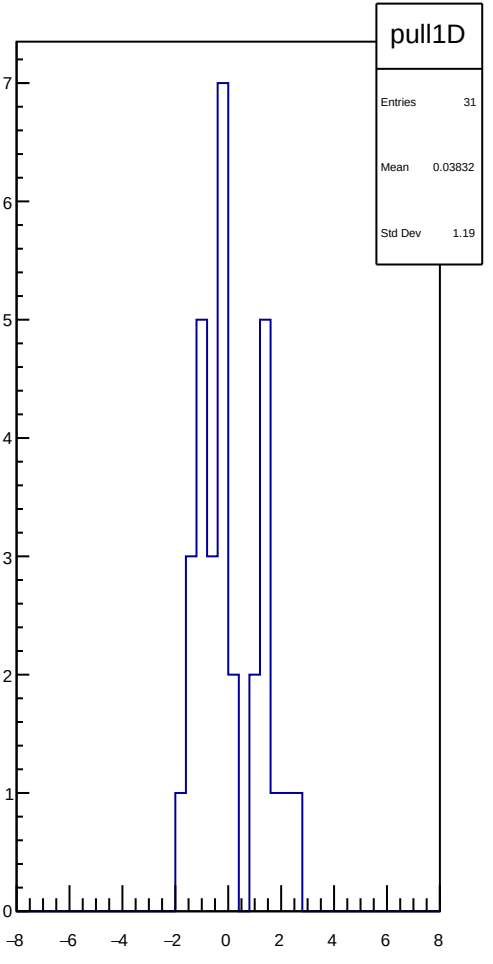

pull1D
Entries 31
Mean 0.03833
Std Dev 1.19
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

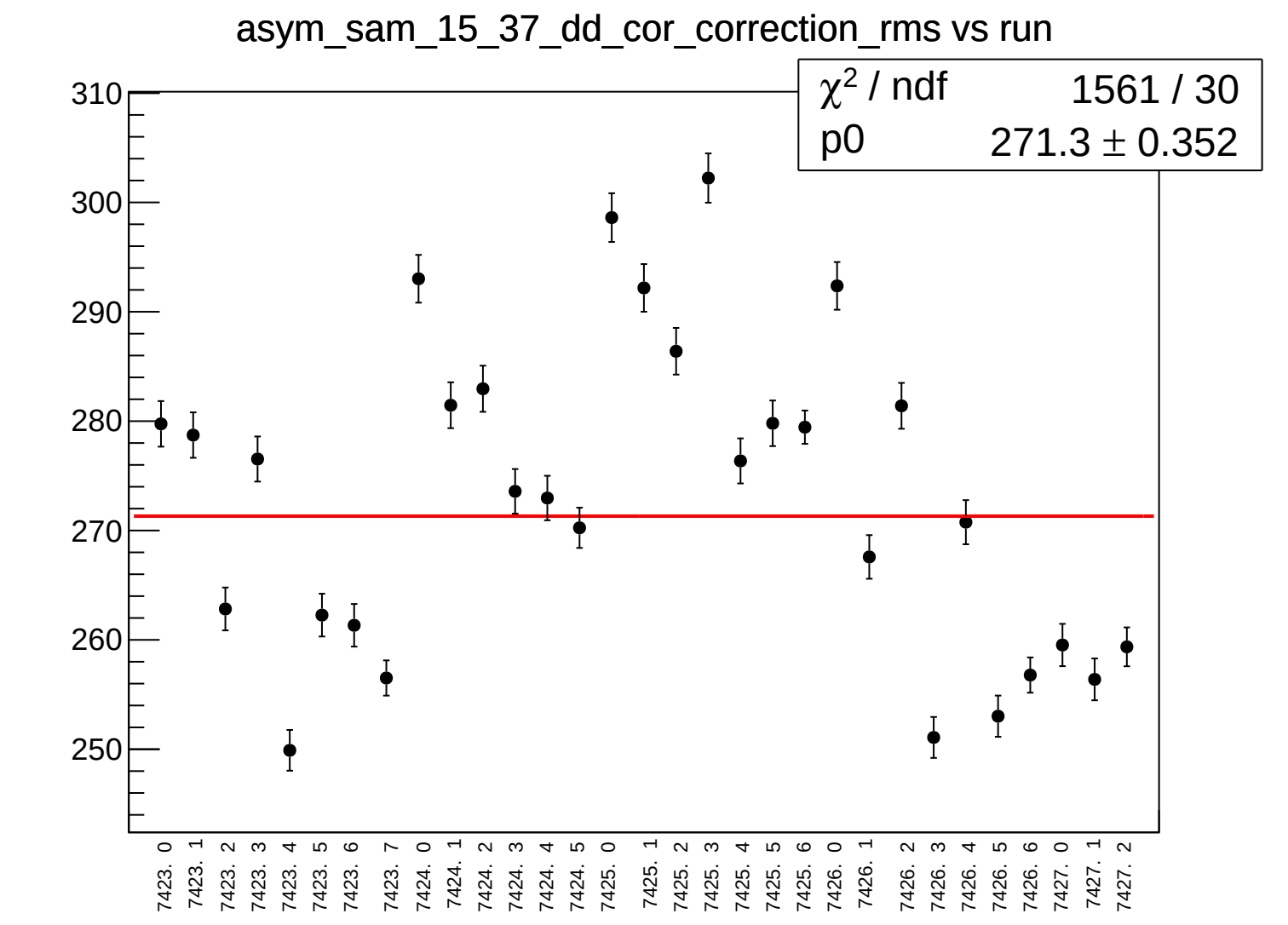

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1561 / 30
p0 271.3 ± 0.3521
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

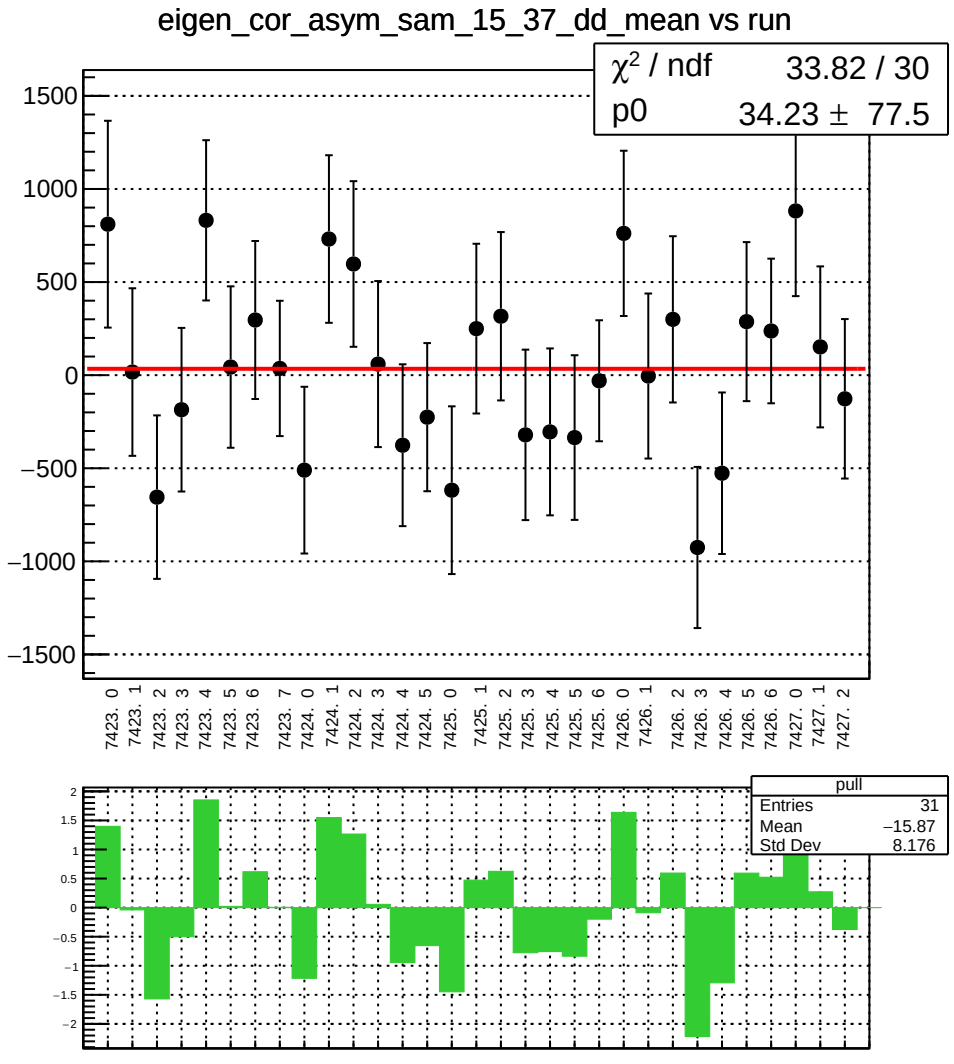

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 33.82 / 30
p0 34.23 ± 77.5
1500
1000
500
0
−500
−1000
−1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −15.87
Std Dev 8.176
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01373
Std Dev 1.044
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1039 / 30
p0 42.25 ± 0.0548
54
52
50
48
46
44
42
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 43.94 / 30
p0 −615.2 ± 497.9
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 52.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean 0.03832
Std Dev 1.19
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1561 / 30
p0 271.3 ± 0.352
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 33.82 / 30
p0 34.23 ± 77.5
1500
1000
500
0
−500
−1000
−1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −15.87
Std Dev 8.176
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01373
Std Dev 1.044
6
5
4
3
2
1
0
−8
−6
−4
−2
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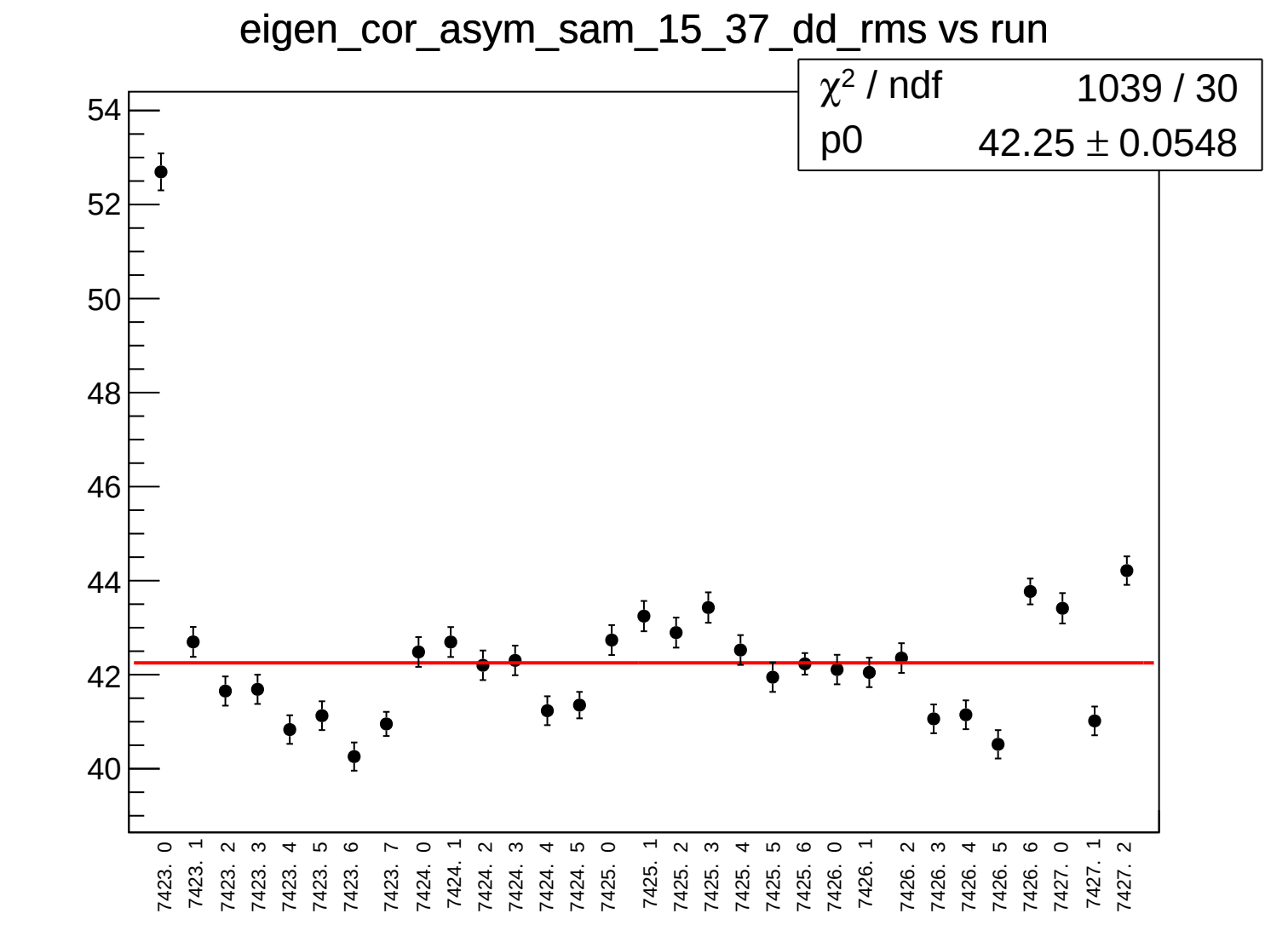
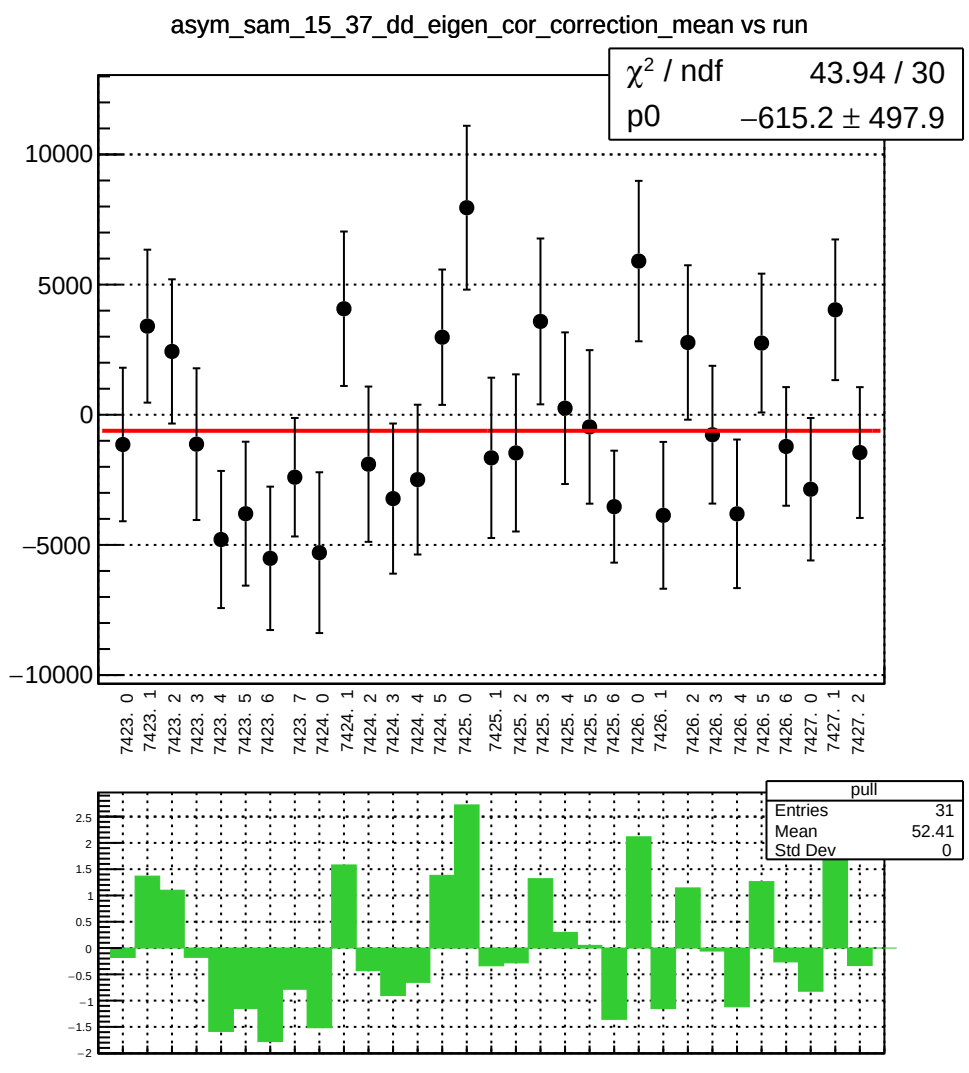
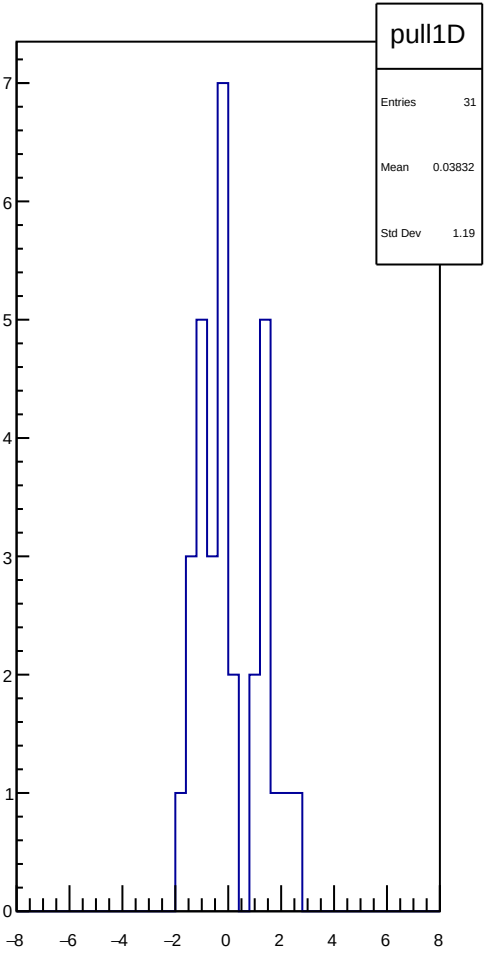
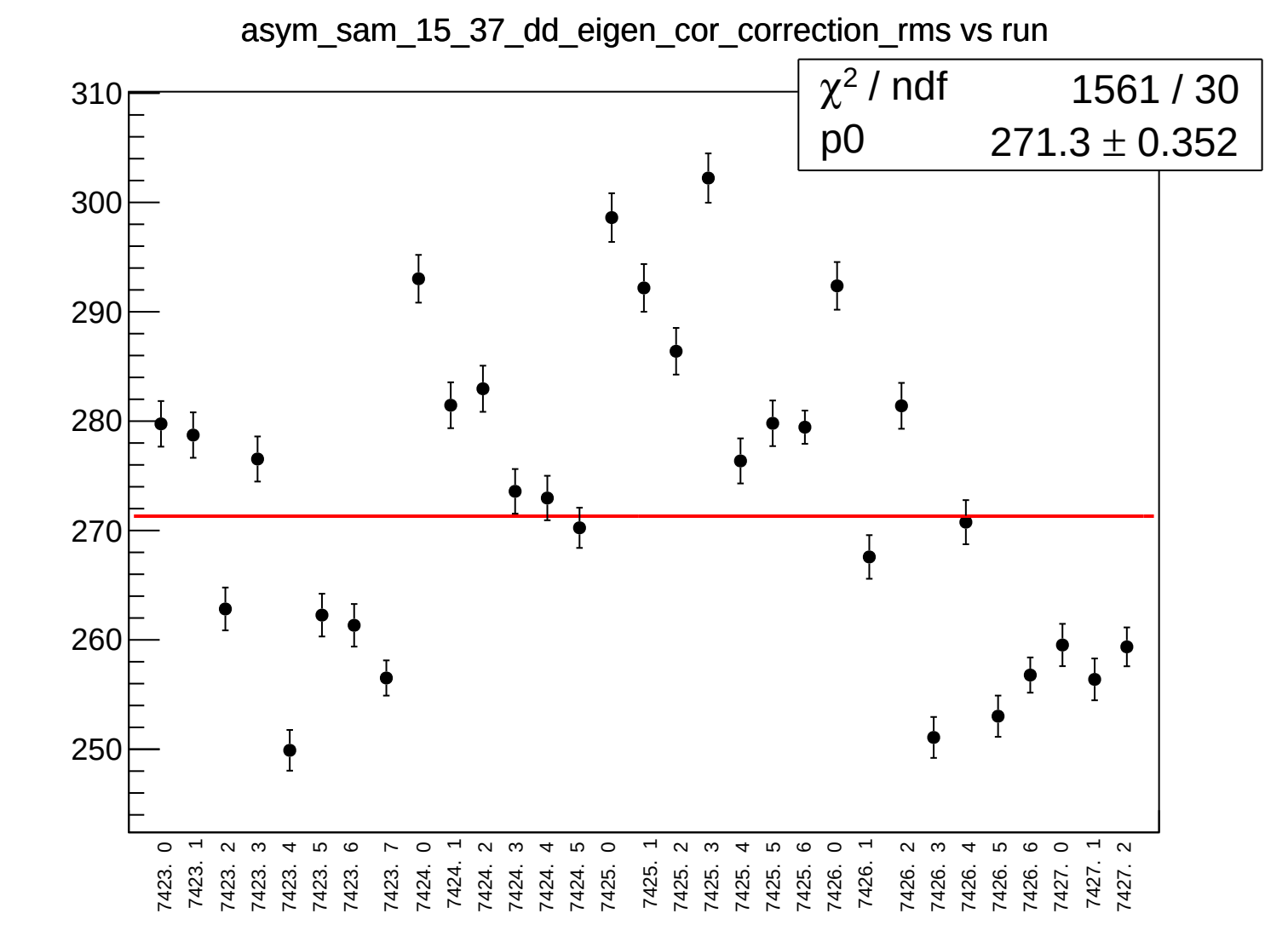
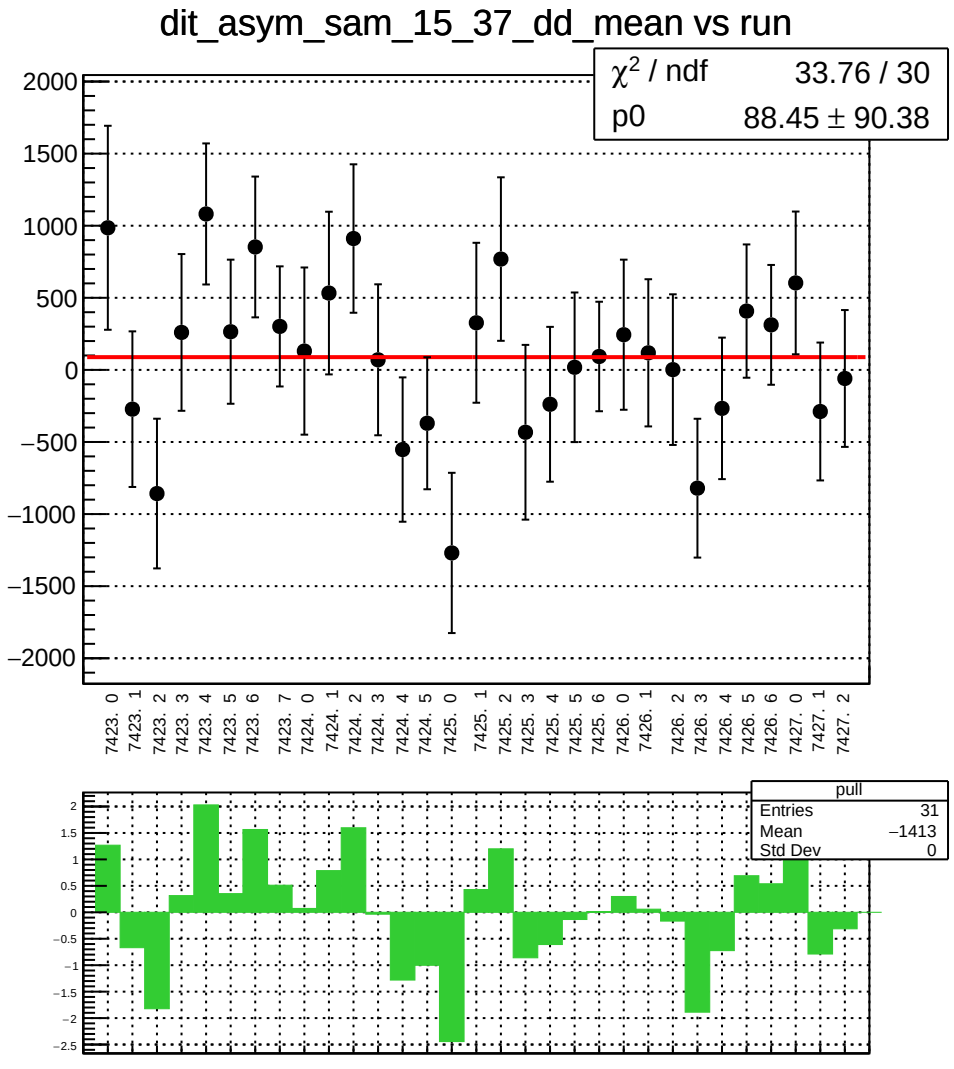
2
4
6
8

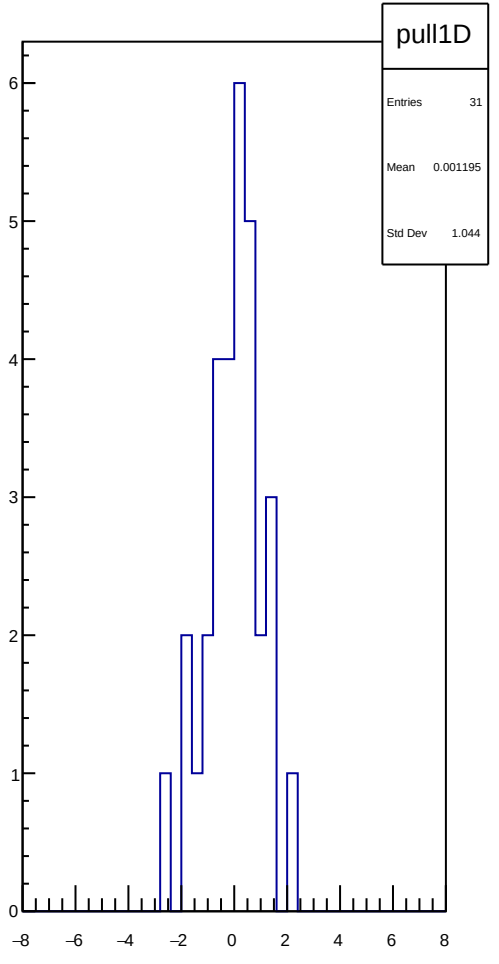

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1039 / 30
p0 42.25 ± 0.0548
54
52
50
48
46
44
42
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

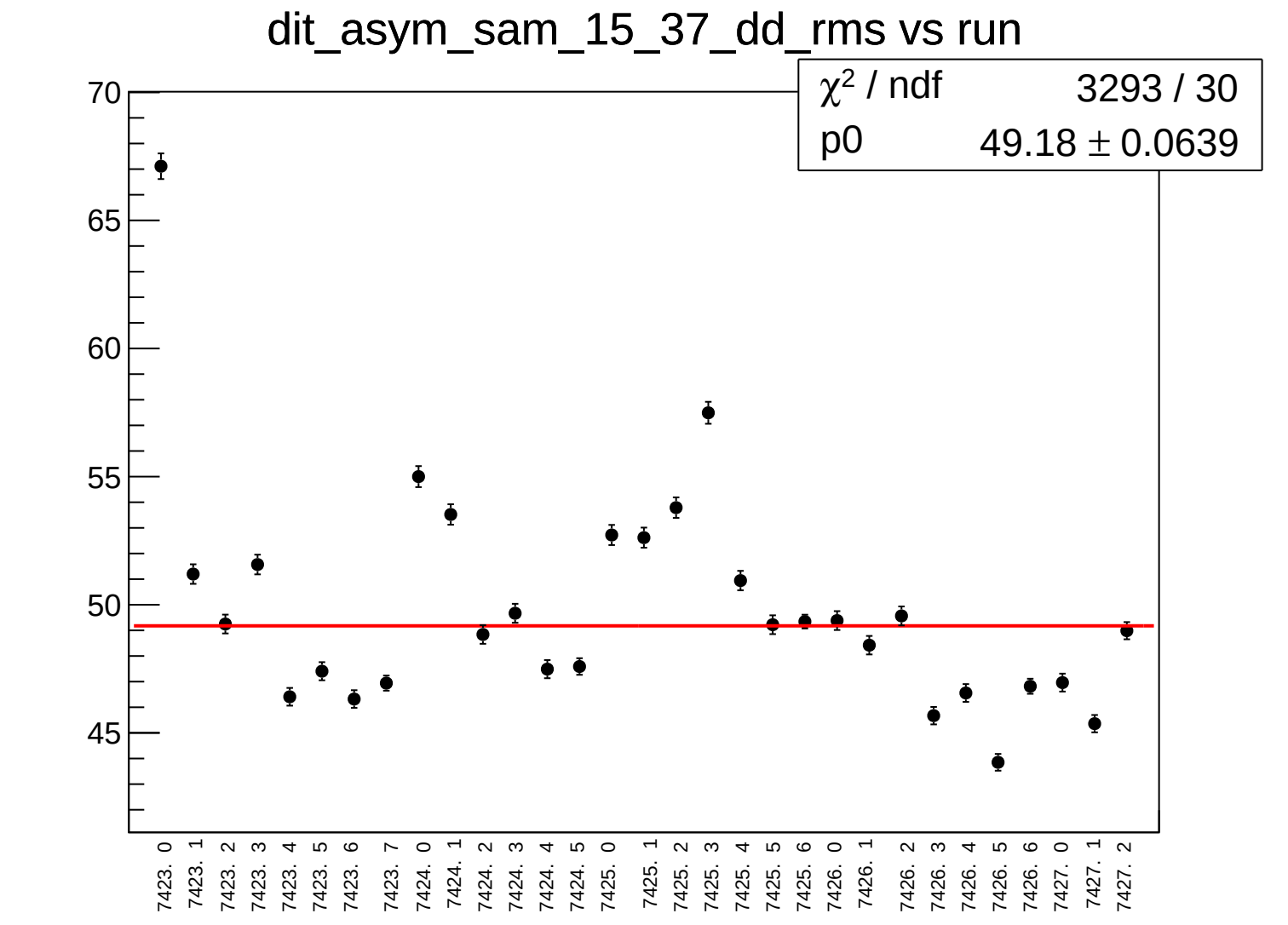

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 43.94 / 30
p0 −615.2 ± 497.9
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 52.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

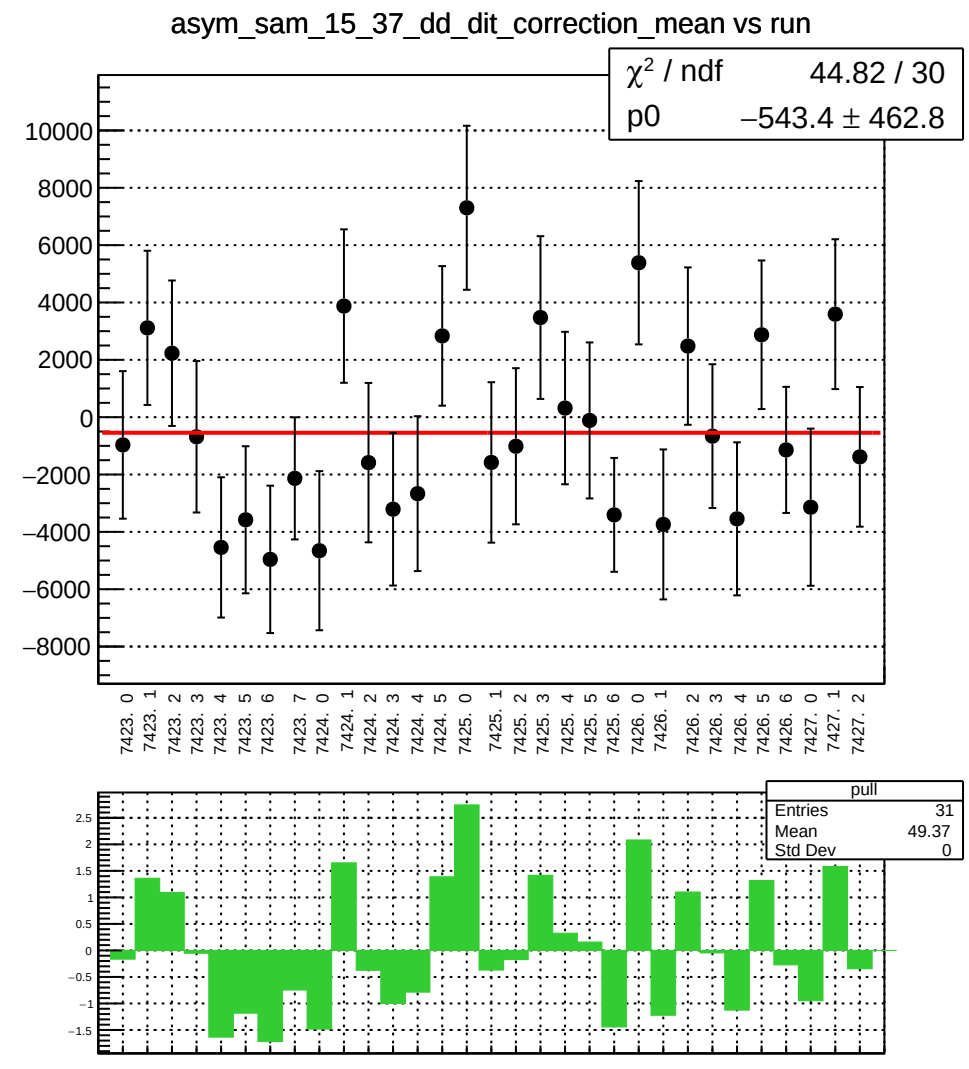

pull1D
Entries 31
Mean 0.03832
Std Dev 1.19
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

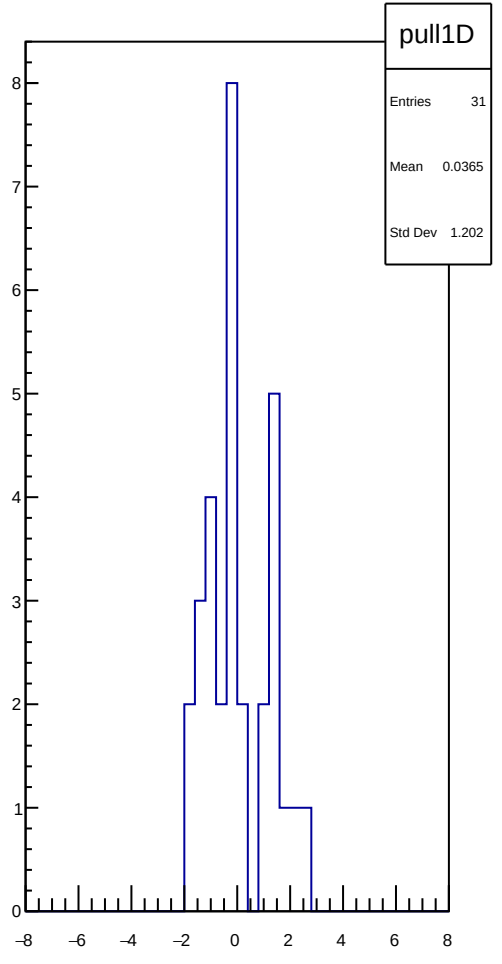

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1561 / 30
p0 271.3 ± 0.352
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

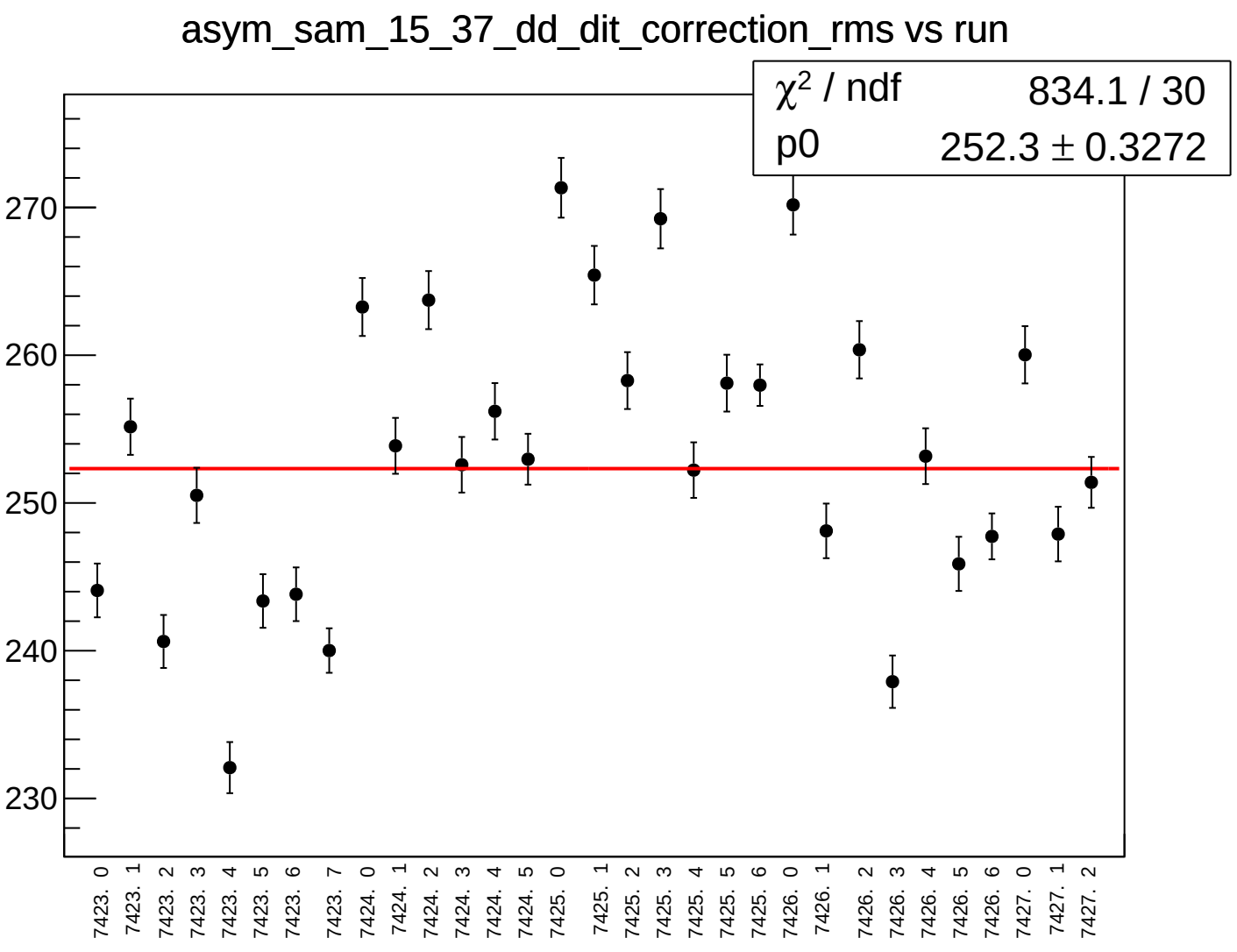

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 33.76 / 30
p0 88.45 ± 90.38
2000
1500
1000
500
0
−500
−1000
−1500
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1413
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

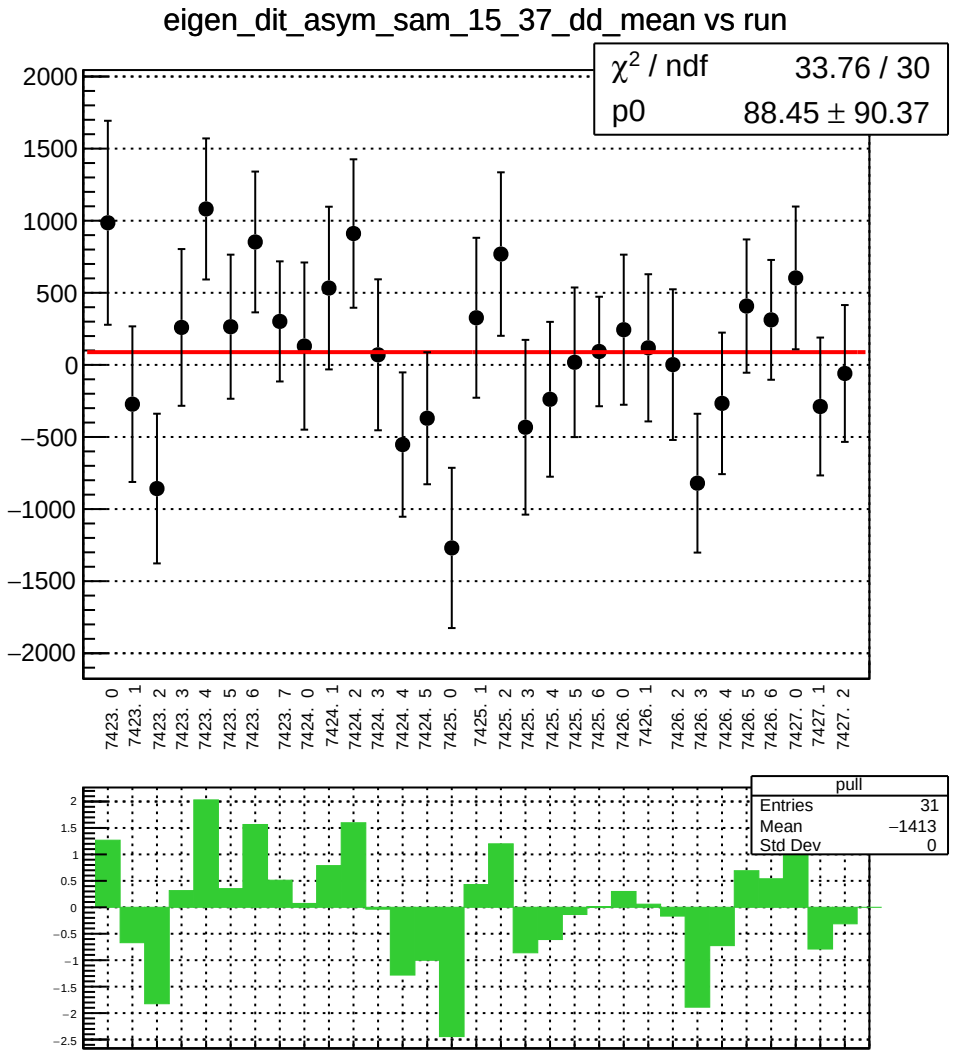

pull1D
Entries 31
Mean 0.001195
Std Dev 1.044
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

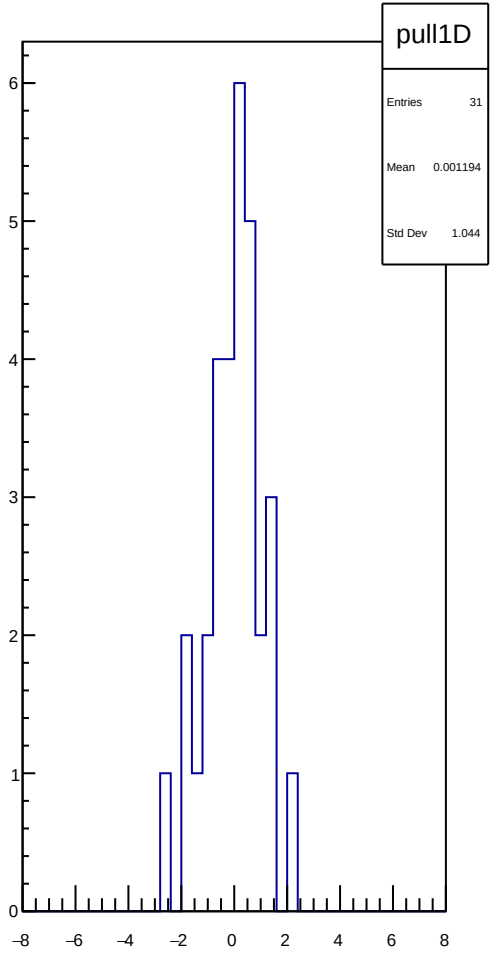

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3293 / 30
p0 49.18 ± 0.0639
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

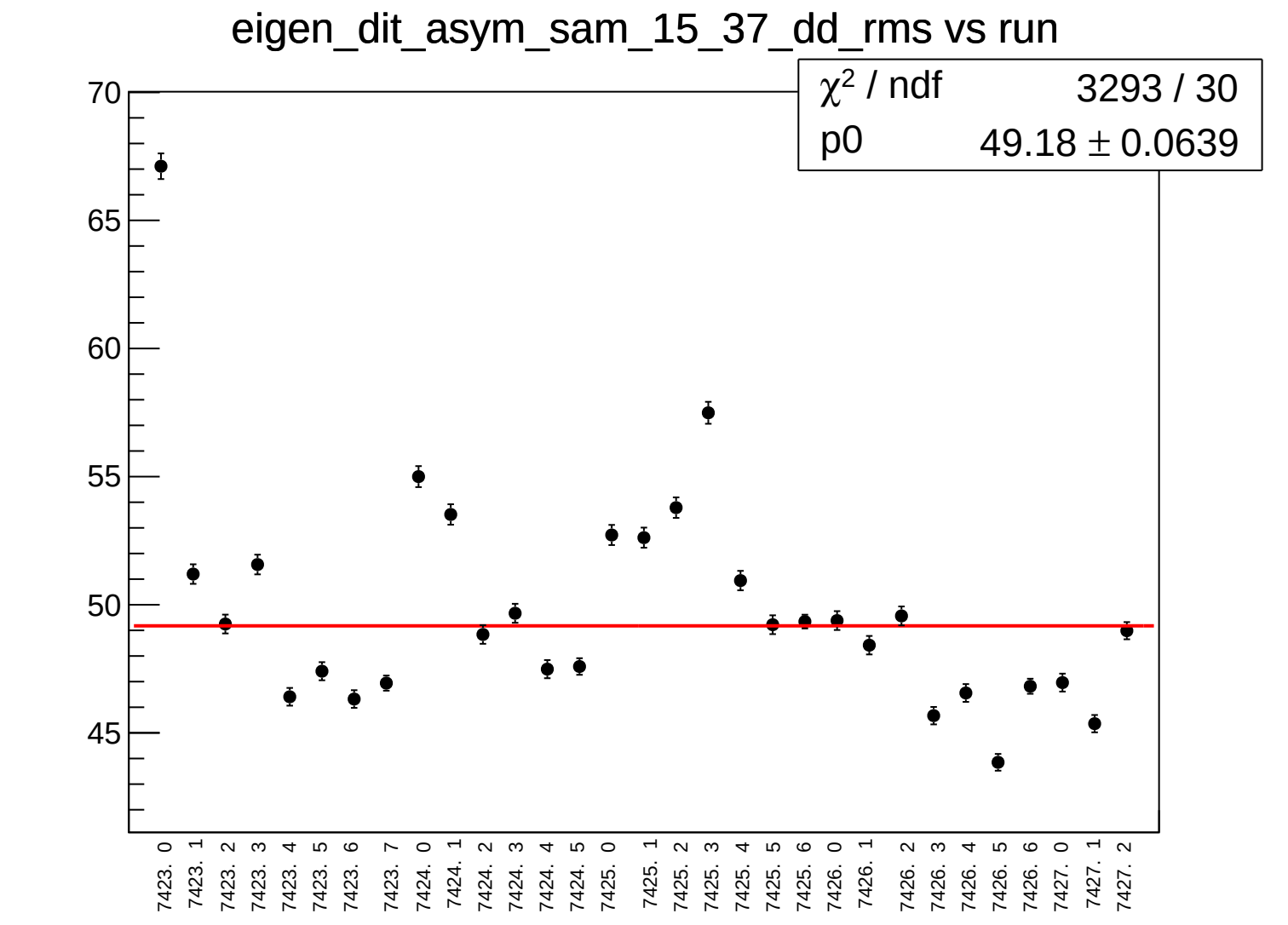

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 44.82 / 30
p0 −543.4 ± 462.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

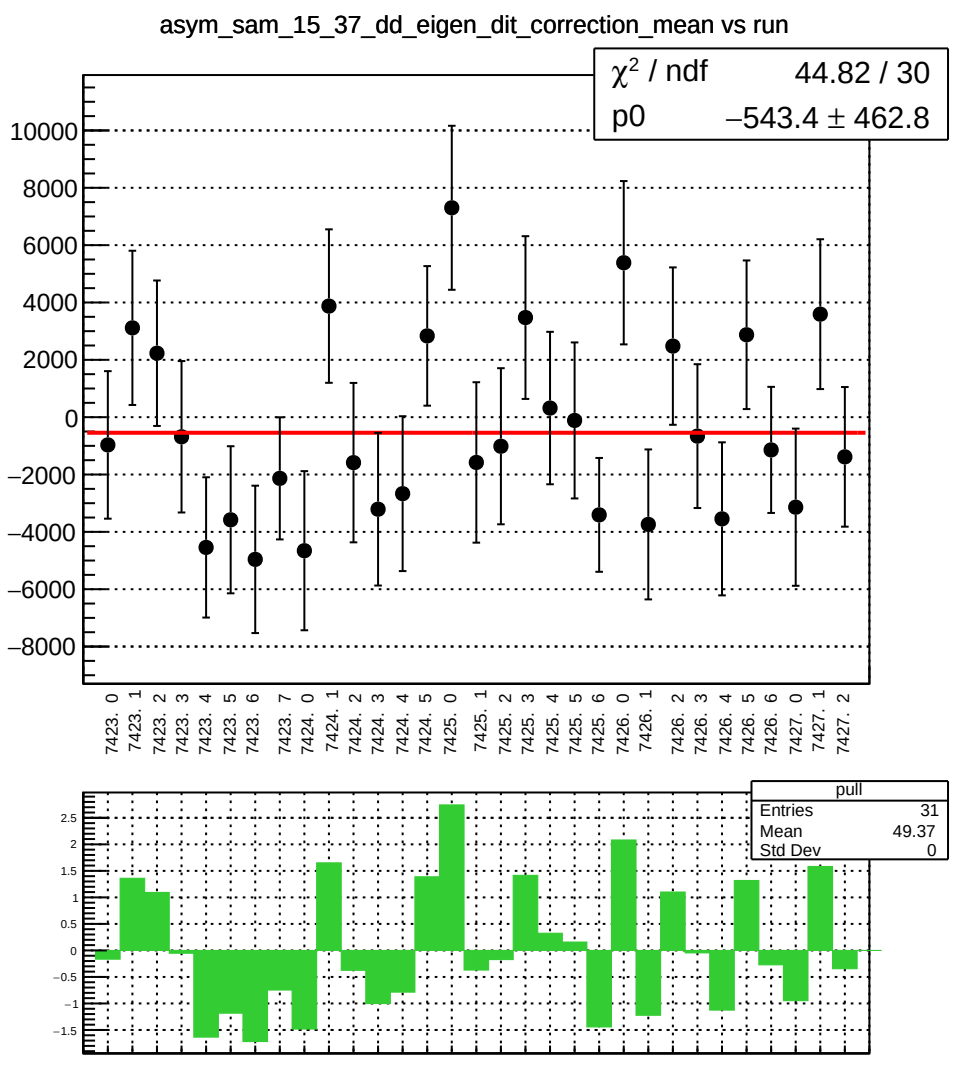

pull1D
Entries 31
Mean 0.0365
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

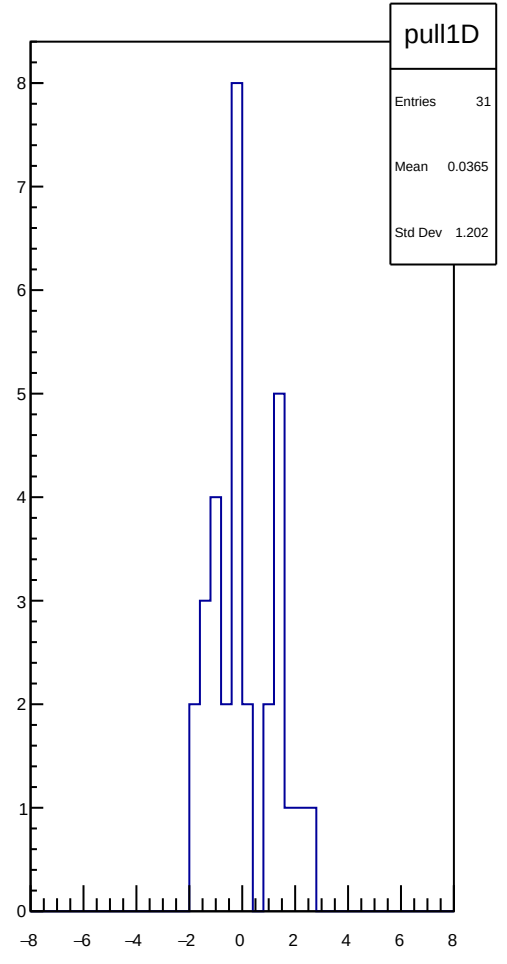

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 834.1 / 30
p0 252.3 ± 0.3272
270
260
250
240
230
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

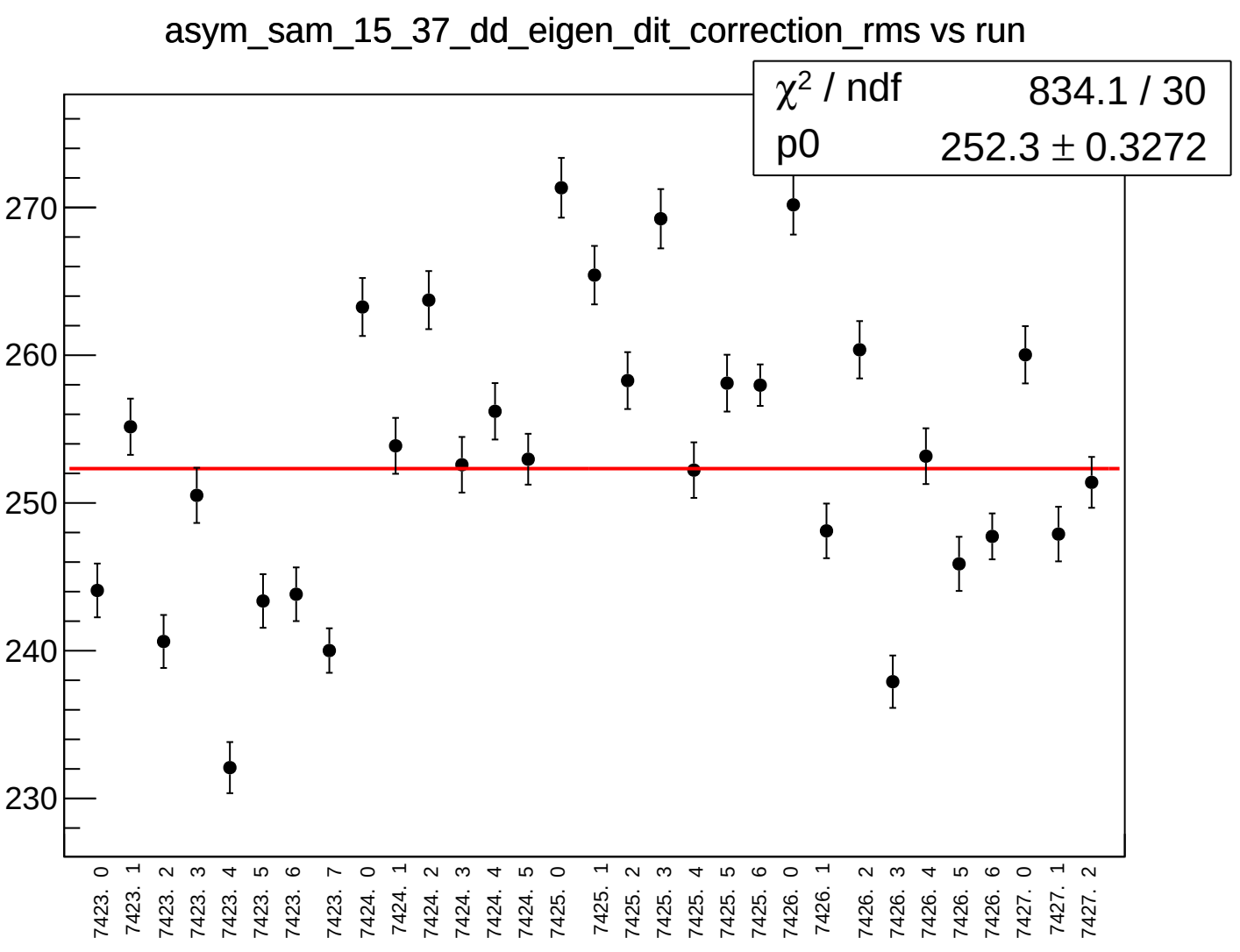

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 33.76 / 30
p0 88.45 ± 90.37
2000
1500
1000
500
0
−500
−1000
−1500
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1413
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

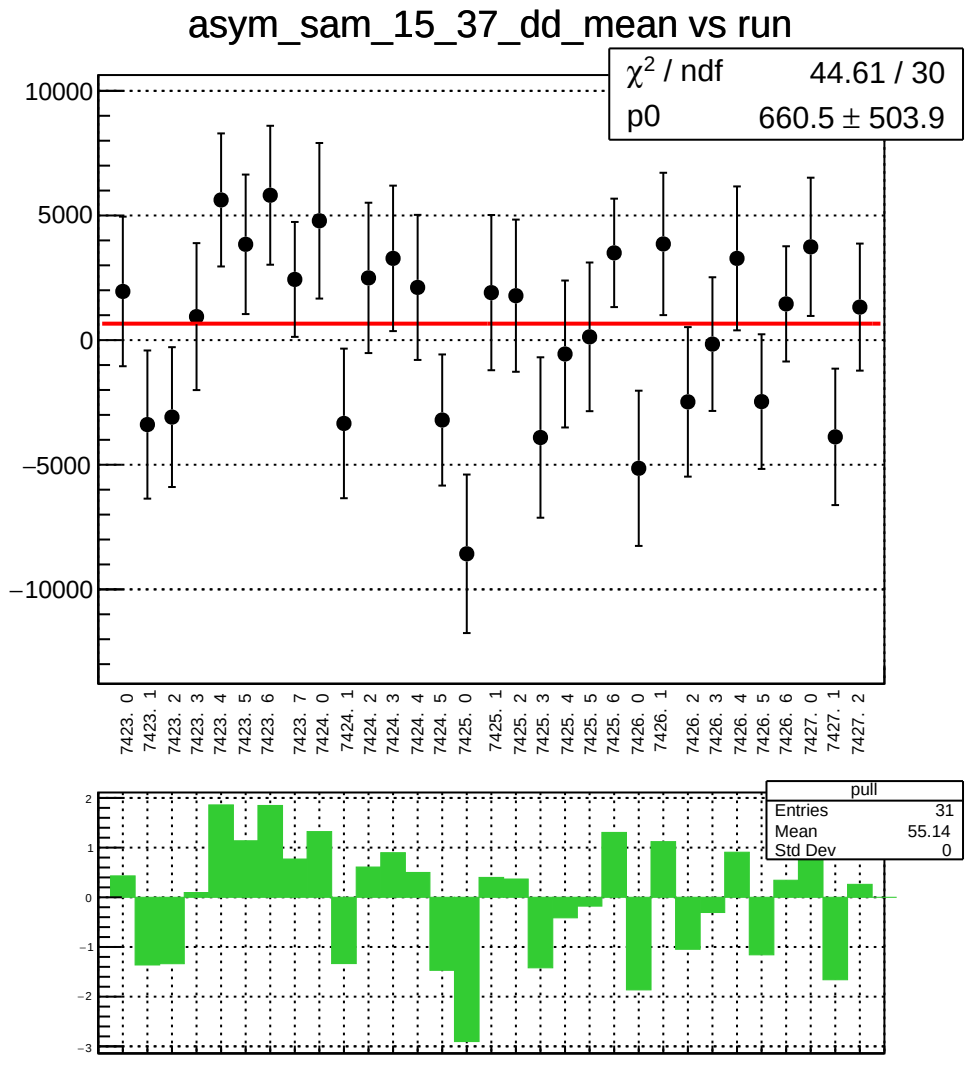

pull1D
Entries 31
Mean 0.001194
Std Dev 1.044
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

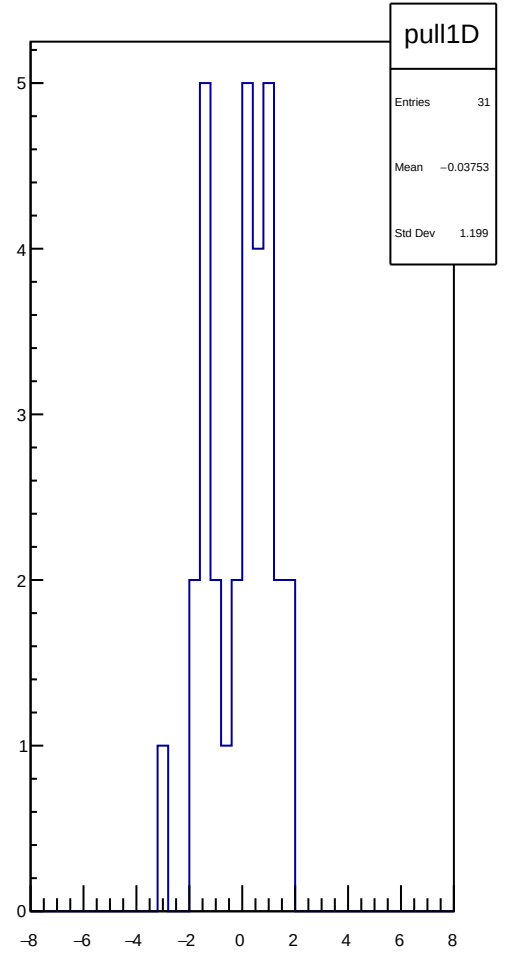

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 3293 / 30
p0 49.18 ± 0.0639
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

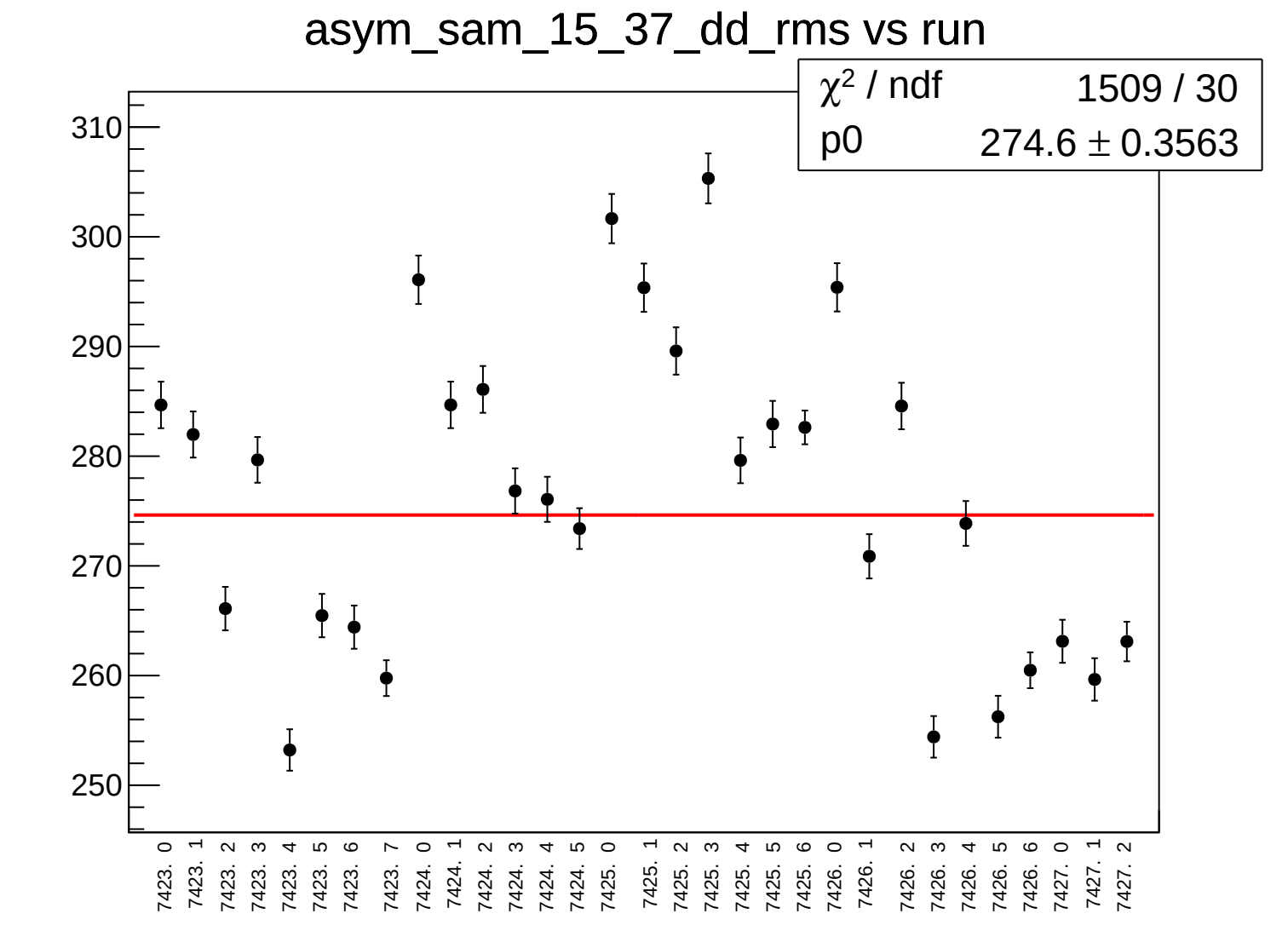

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 44.82 / 30
p0 −543.4 ± 462.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

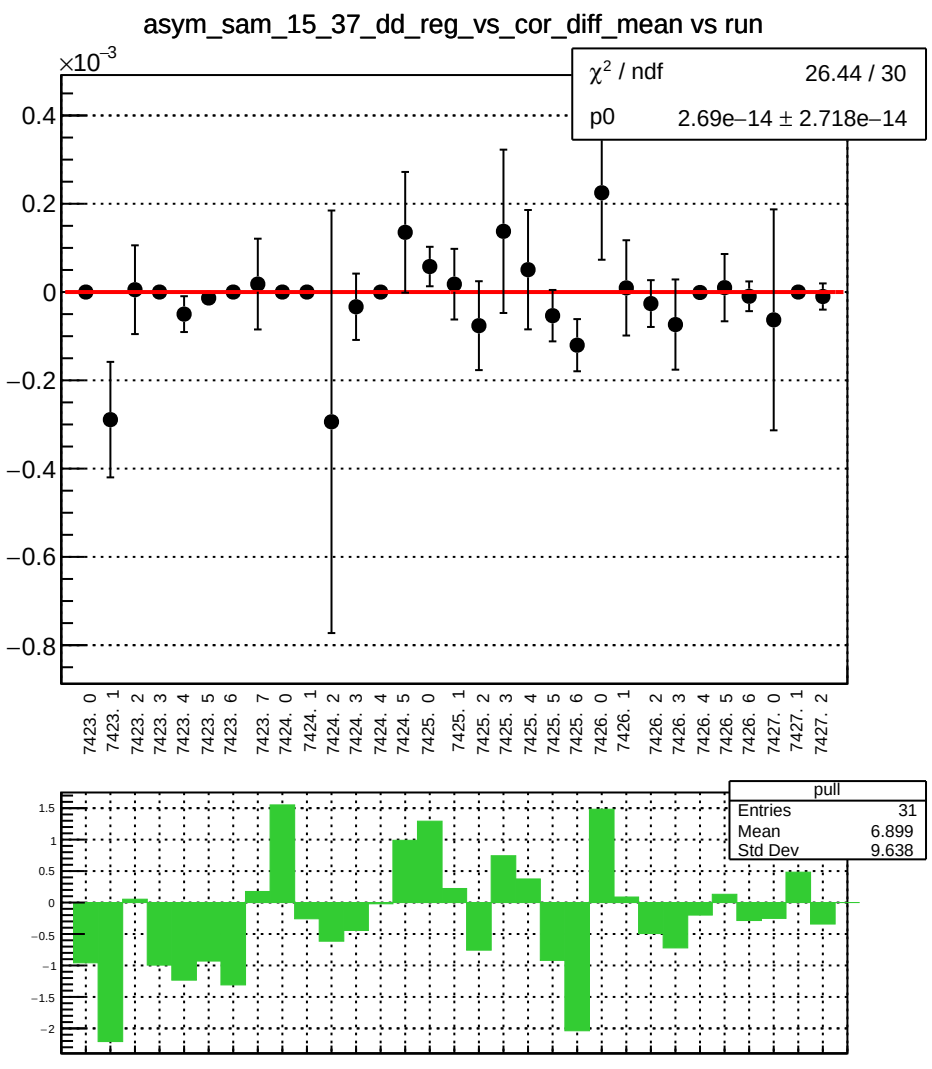

pull1D
Entries 31
Mean 0.0365
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

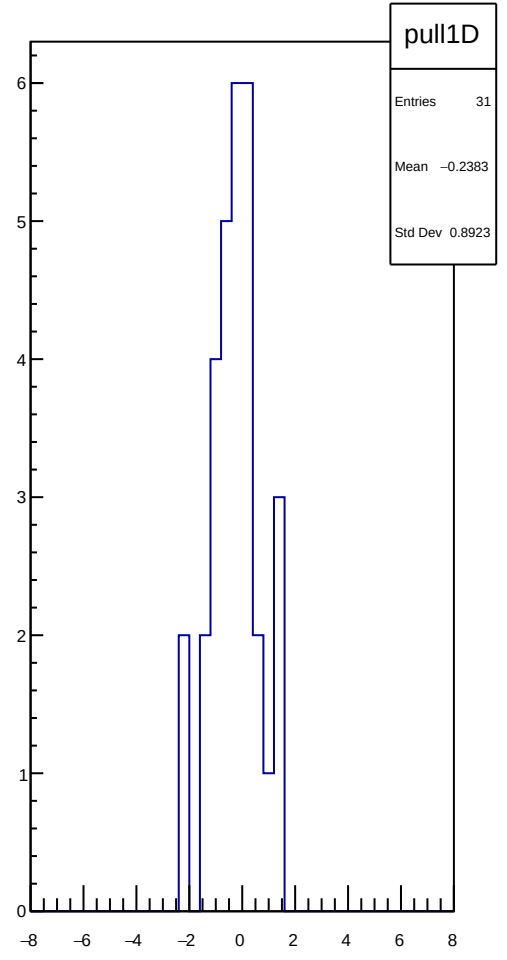

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 834.1 / 30
p0 252.3 ± 0.3272
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

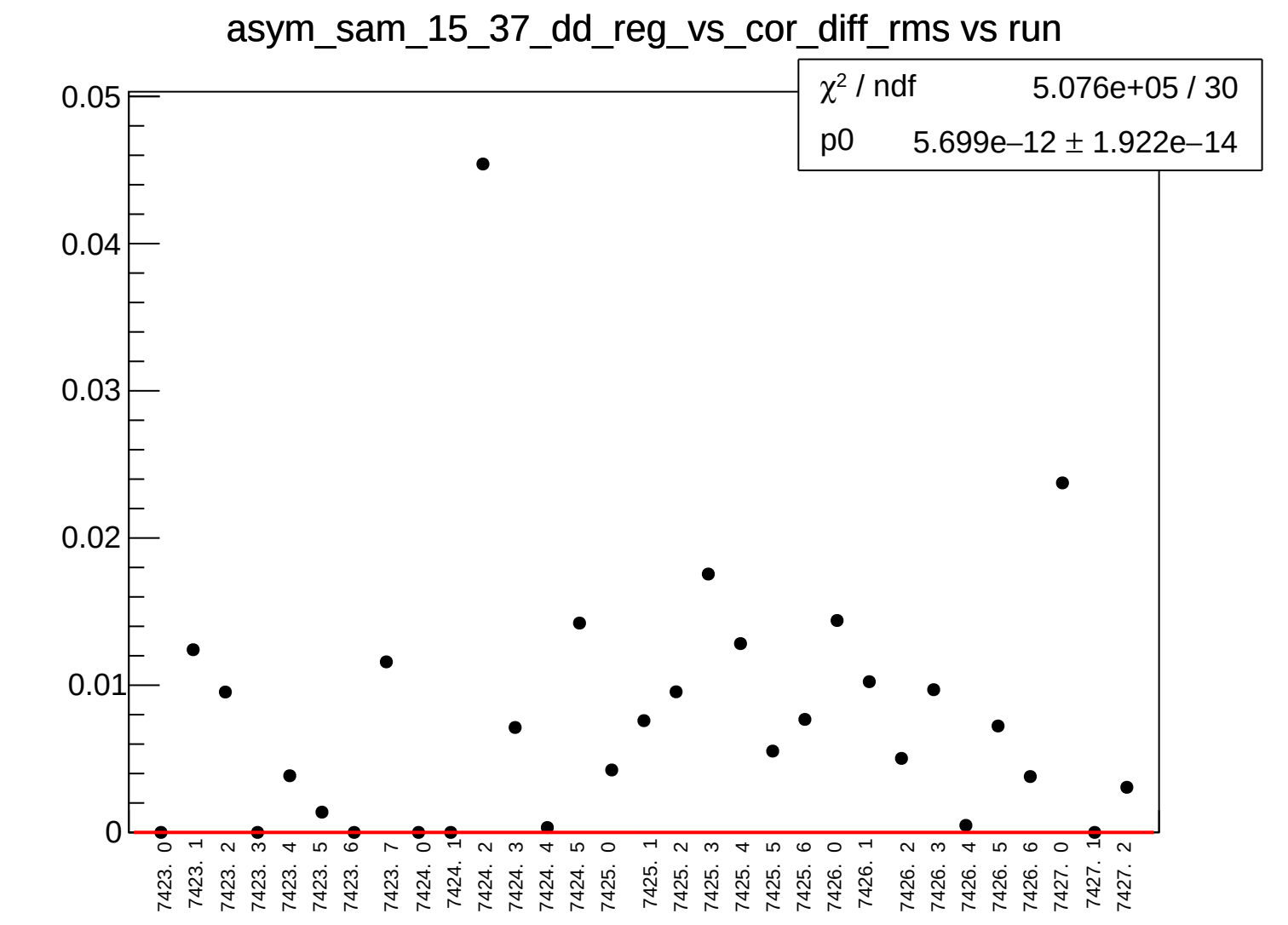

asym_sam_15_37_dd_mean vs run
χ² / ndf 44.61 / 30
p0 660.5 ± 503.9
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 55.14
Std Dev 0
2
1
0
−1
−2
−3

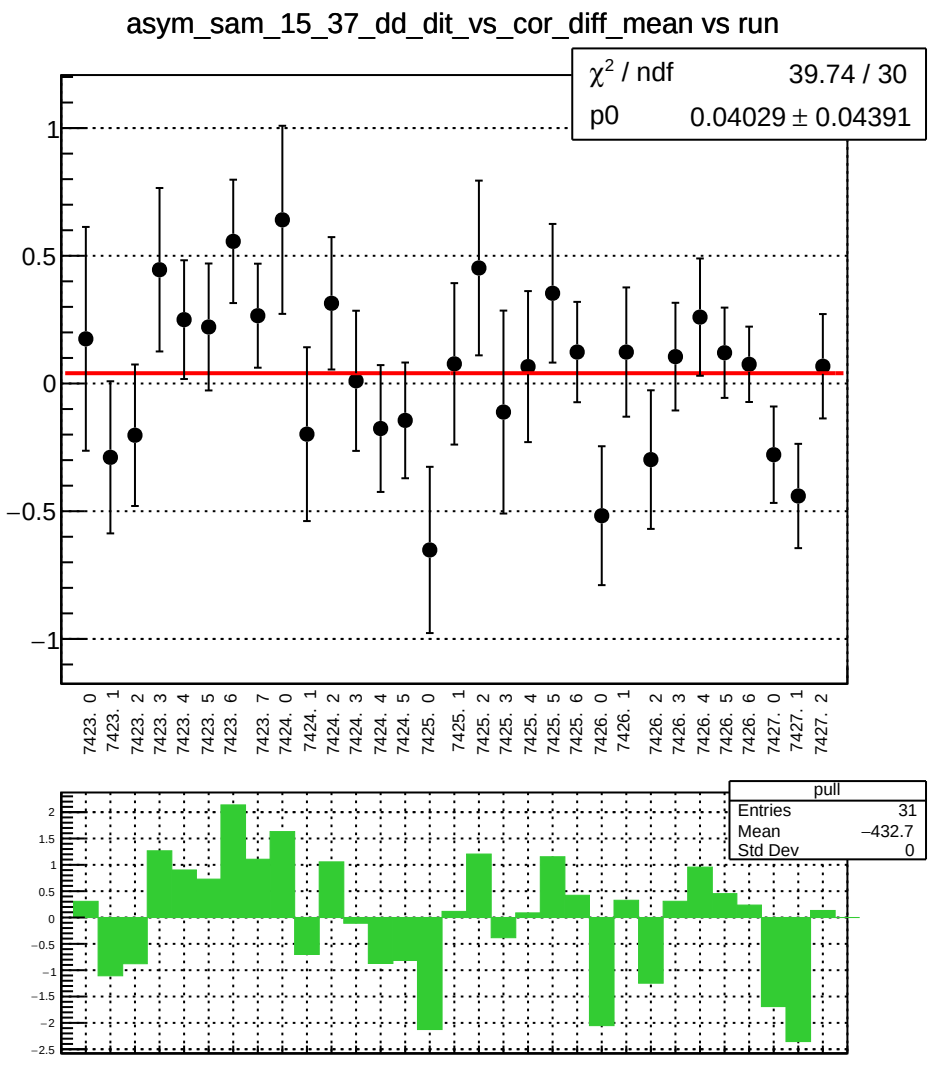

pull1D
Entries 31
Mean −0.03753
Std Dev 1.199
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

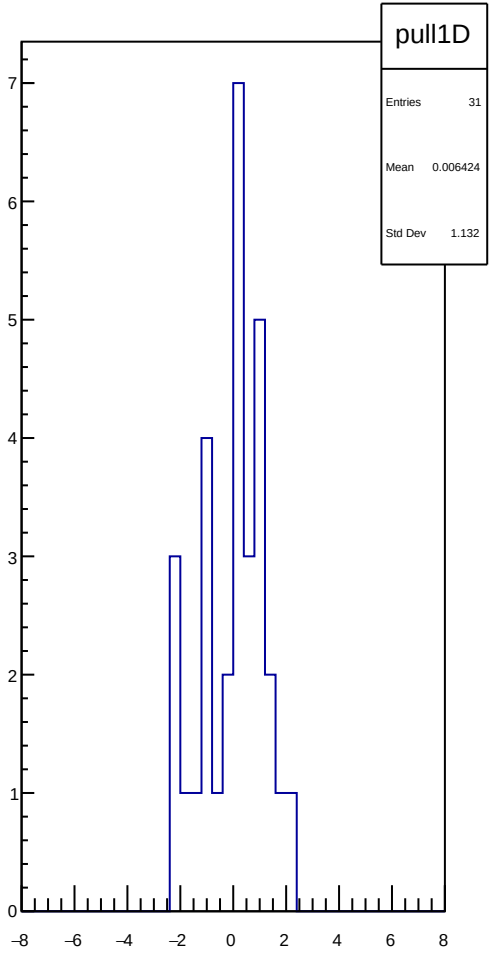

asym_sam_15_37_dd_rms vs run
χ² / ndf 1509 / 30
p0 274.6 ± 0.3563
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

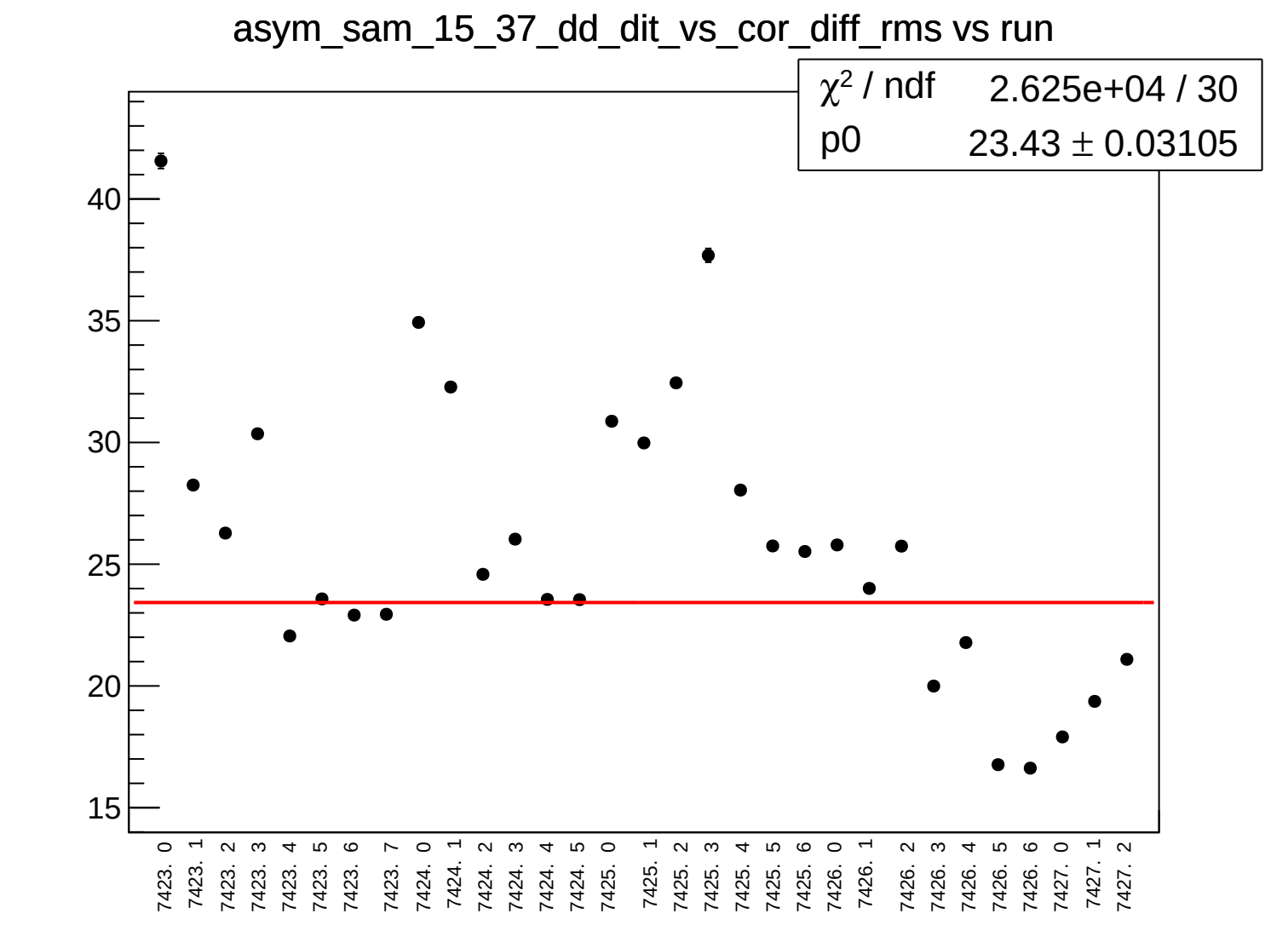

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 26.44 / 30
p0 2.69e−14 ± 2.718e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 6.899
Std Dev 9.638
1.5
1
0.5
0
−0.5
−1
−1.5
−2

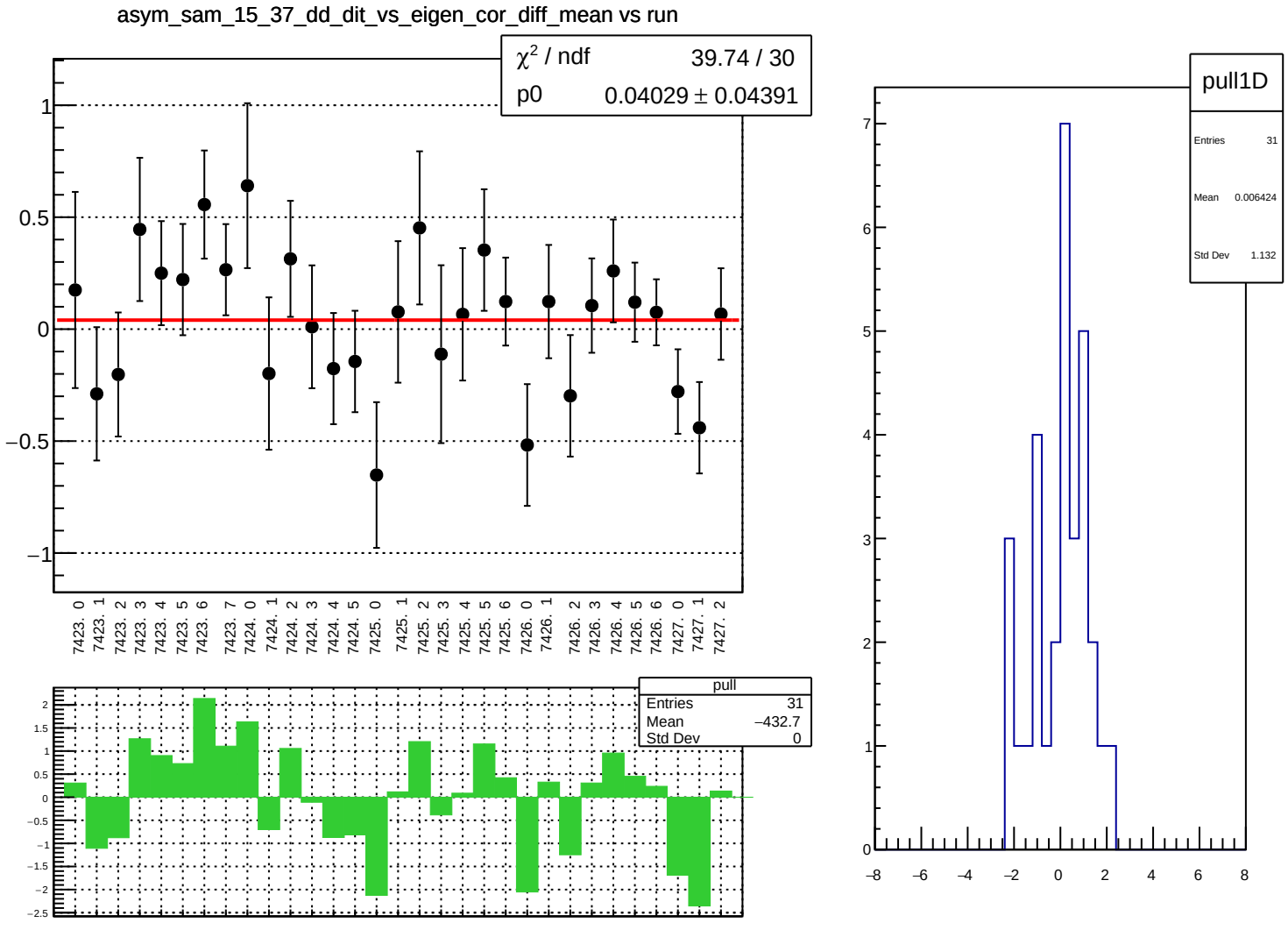

pull1D
Entries 31
Mean −0.2383
Std Dev 0.8923
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

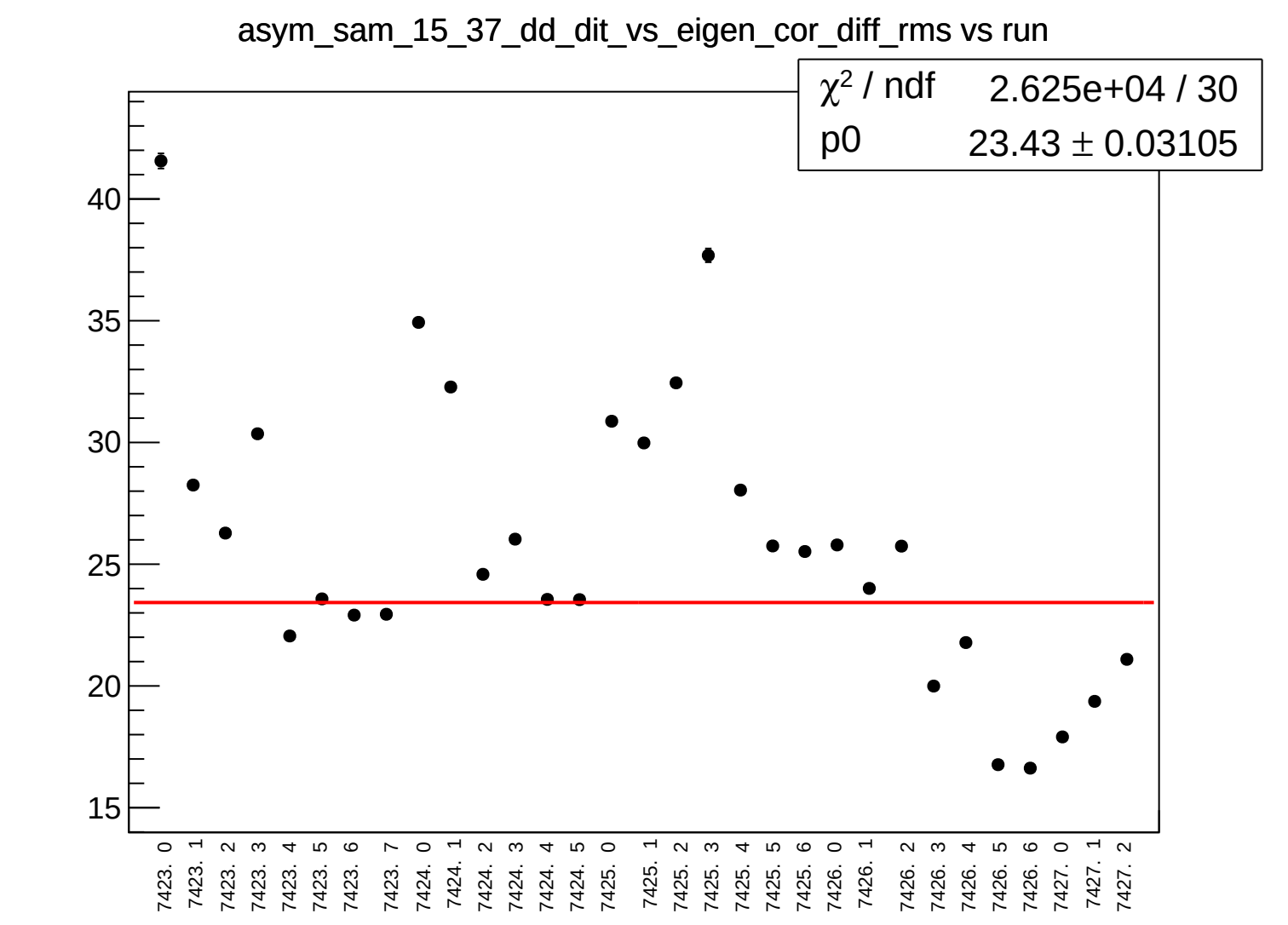

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.076e+05 / 30
p0 5.699e−12 ± 1.922e−14
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

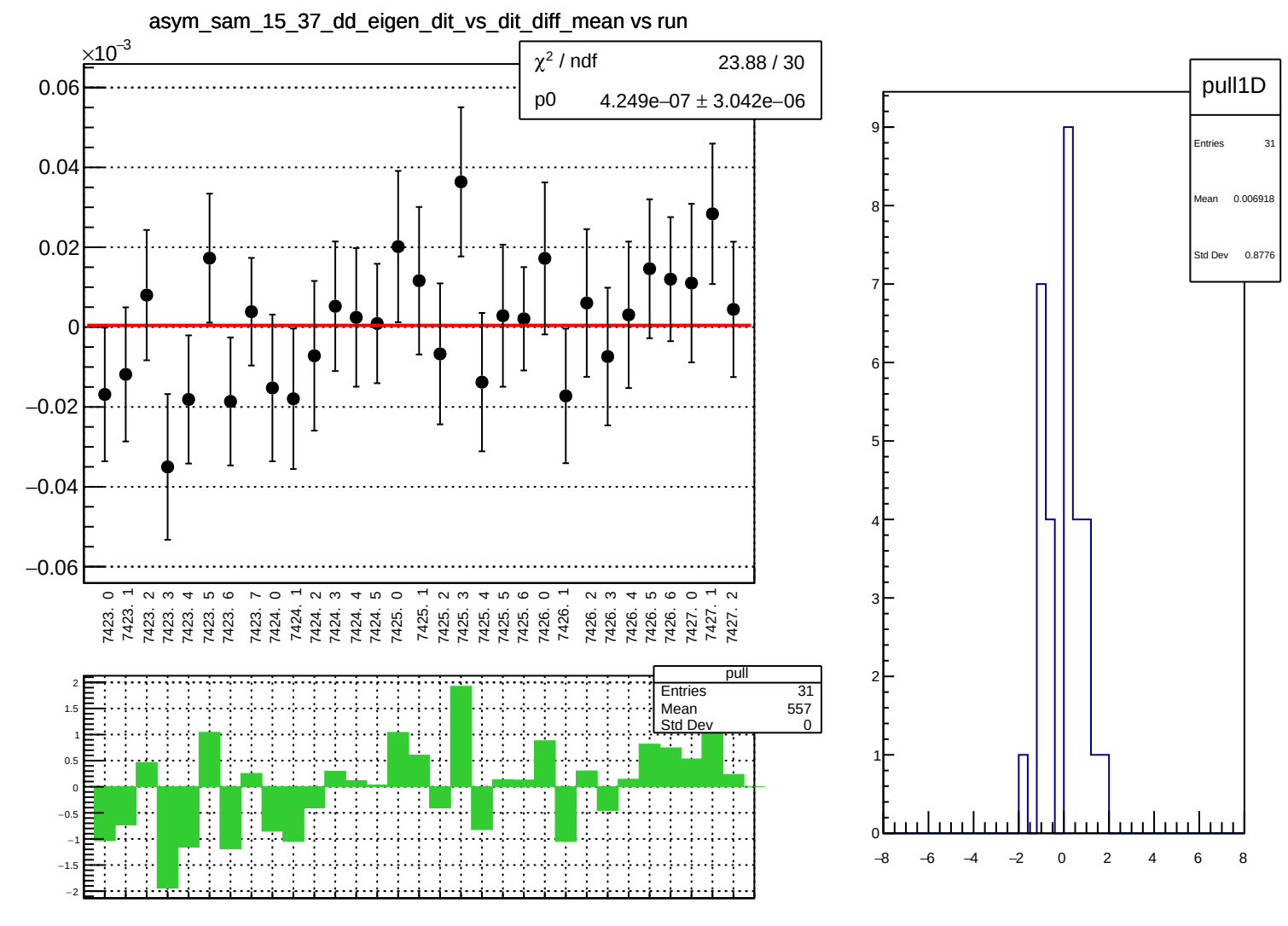

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.74 / 30
p0 0.04029 ± 0.04391
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −432.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

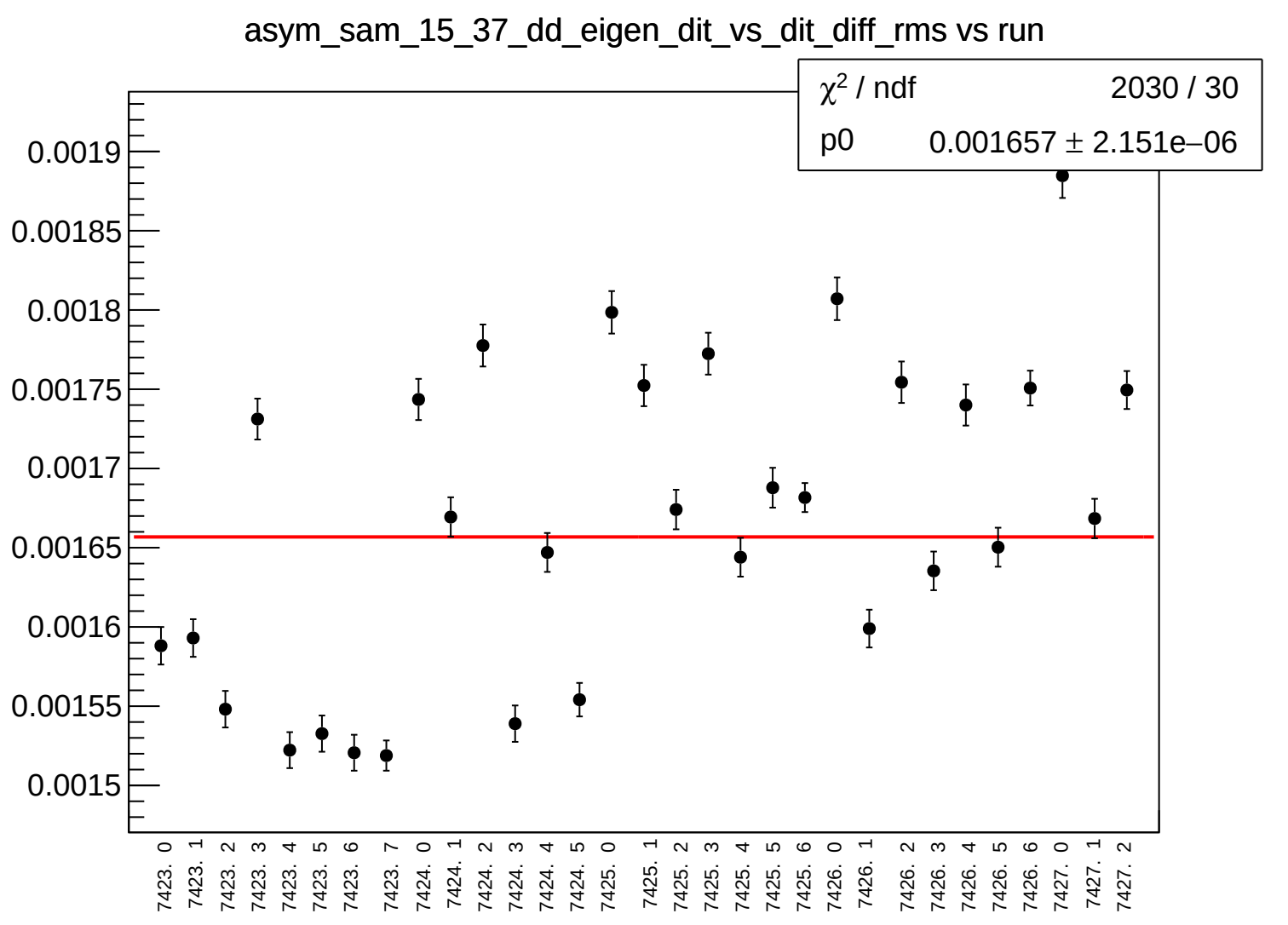

pull1D
Entries 31
Mean 0.006424
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

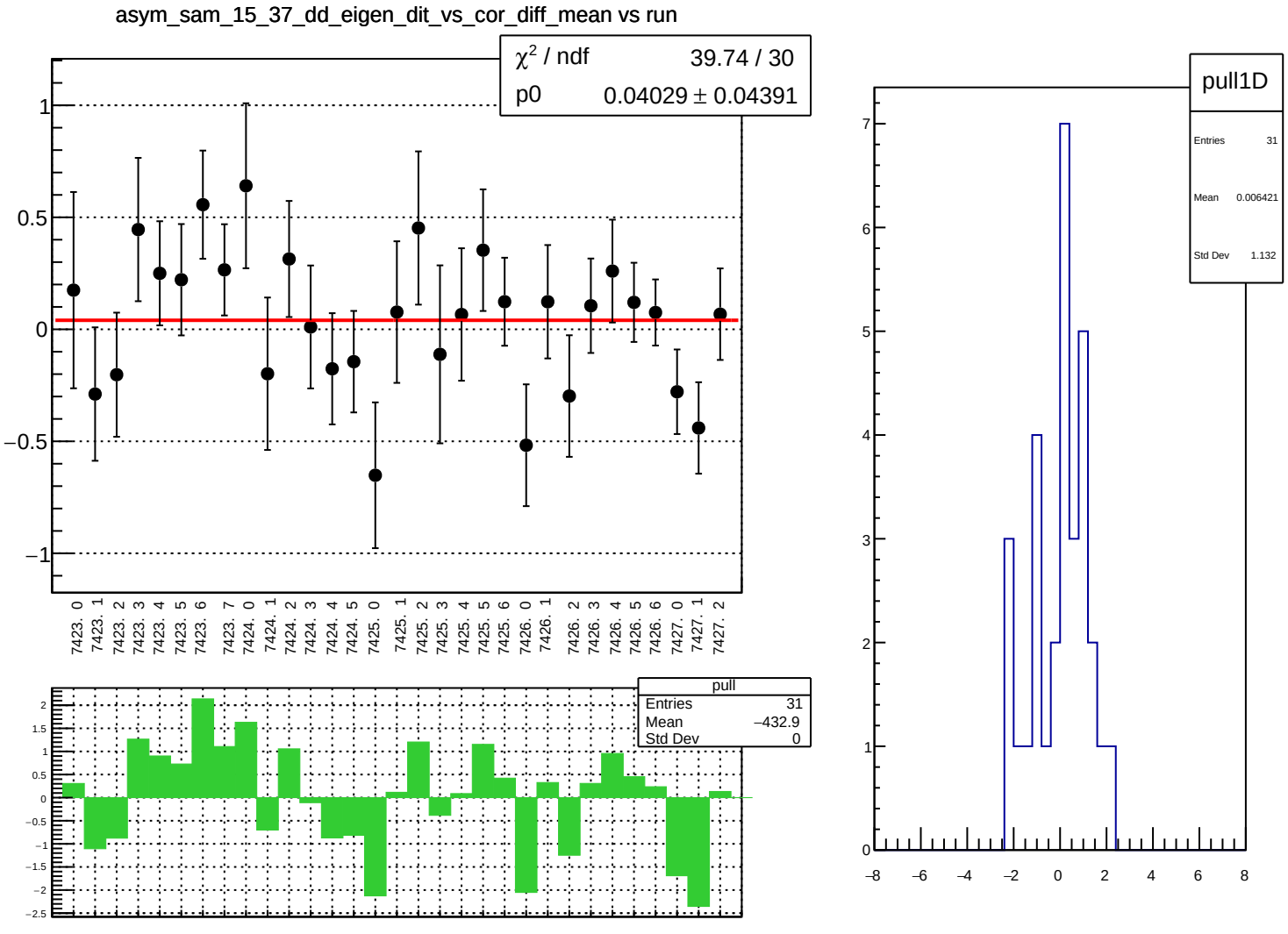

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.625e+04 / 30
p0 23.43 ± 0.03105
40
35
30
25
20
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

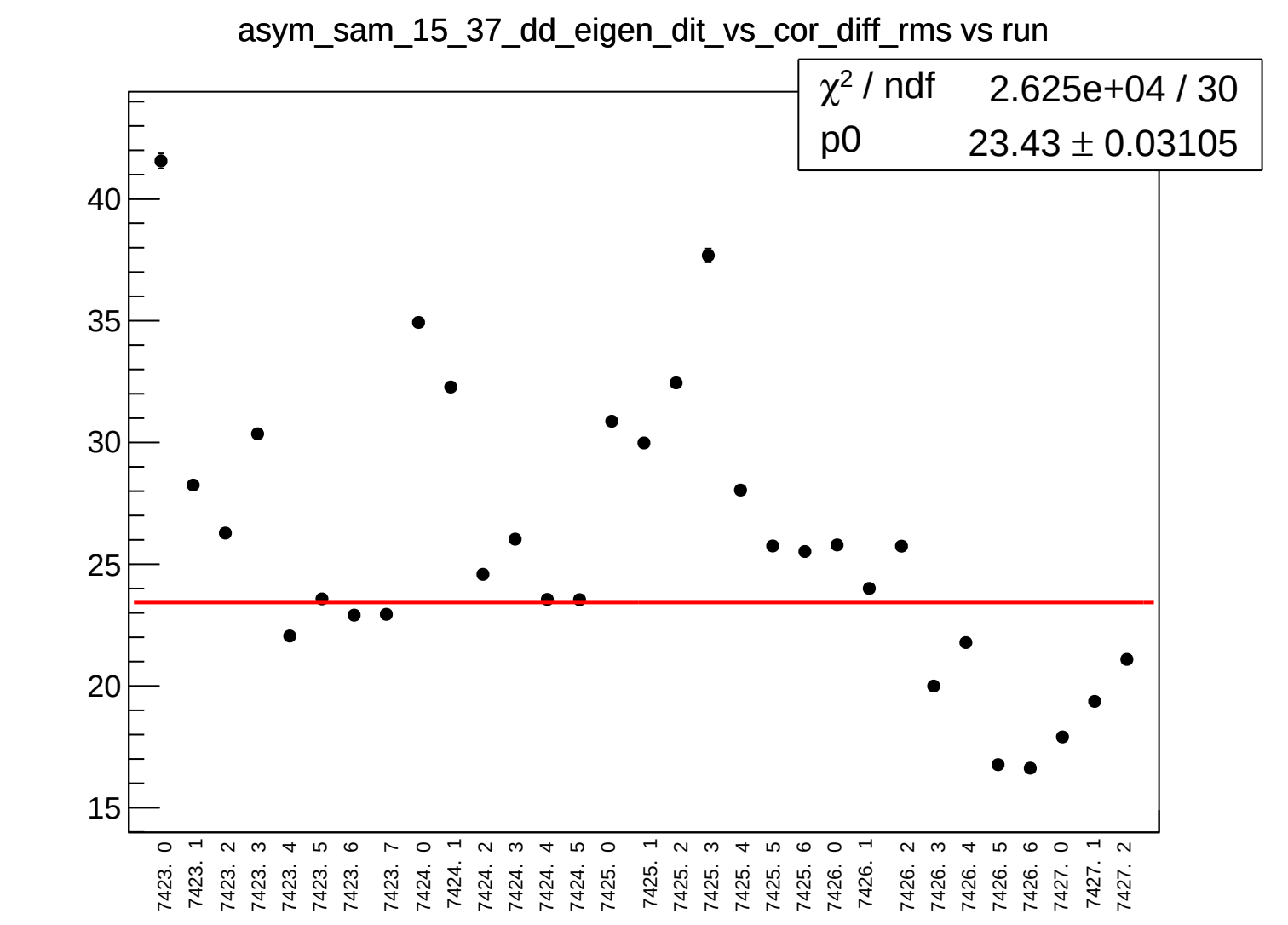

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.74 / 30
p0 0.04029 ± 0.04391
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −432.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.006424
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

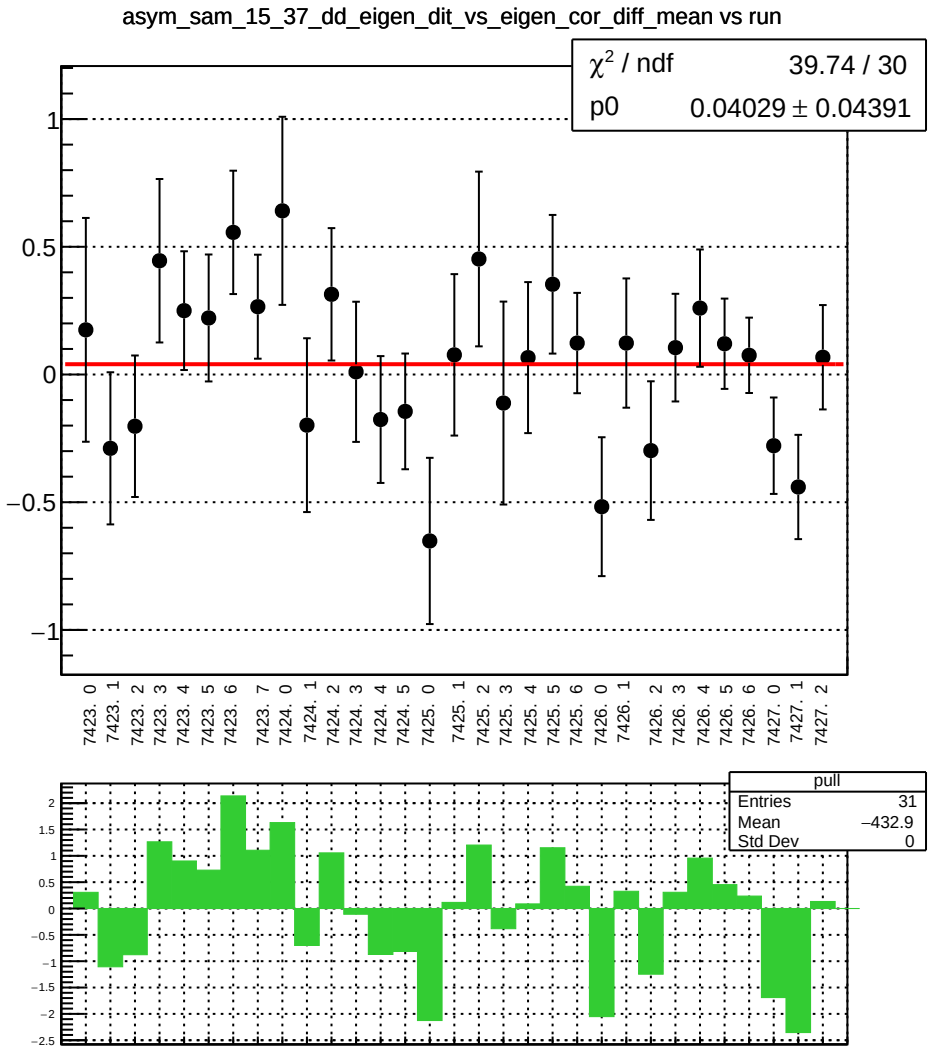

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.625e+04 / 30
p0 23.43 ± 0.03105
40
35
30
25
20
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

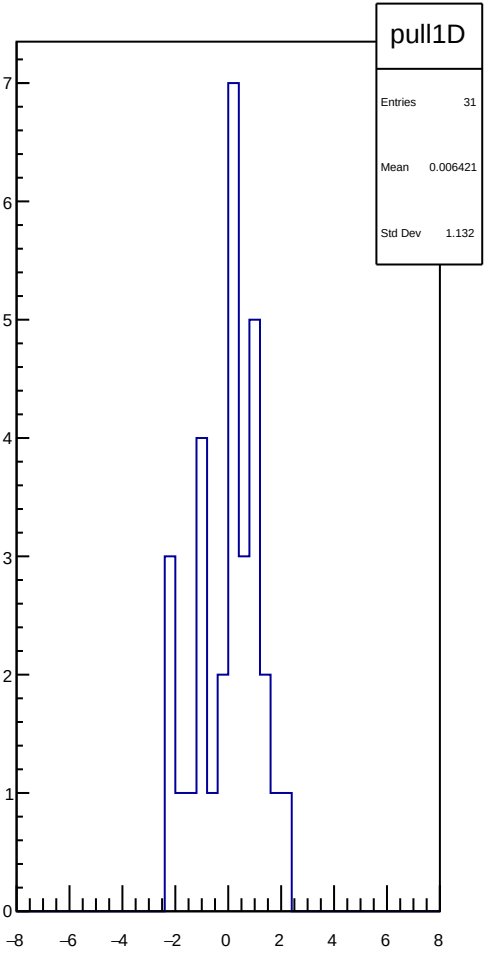

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 23.88 / 30
p0 4.249e−07 ± 3.042e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 557
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.006918
Std Dev 0.8776
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

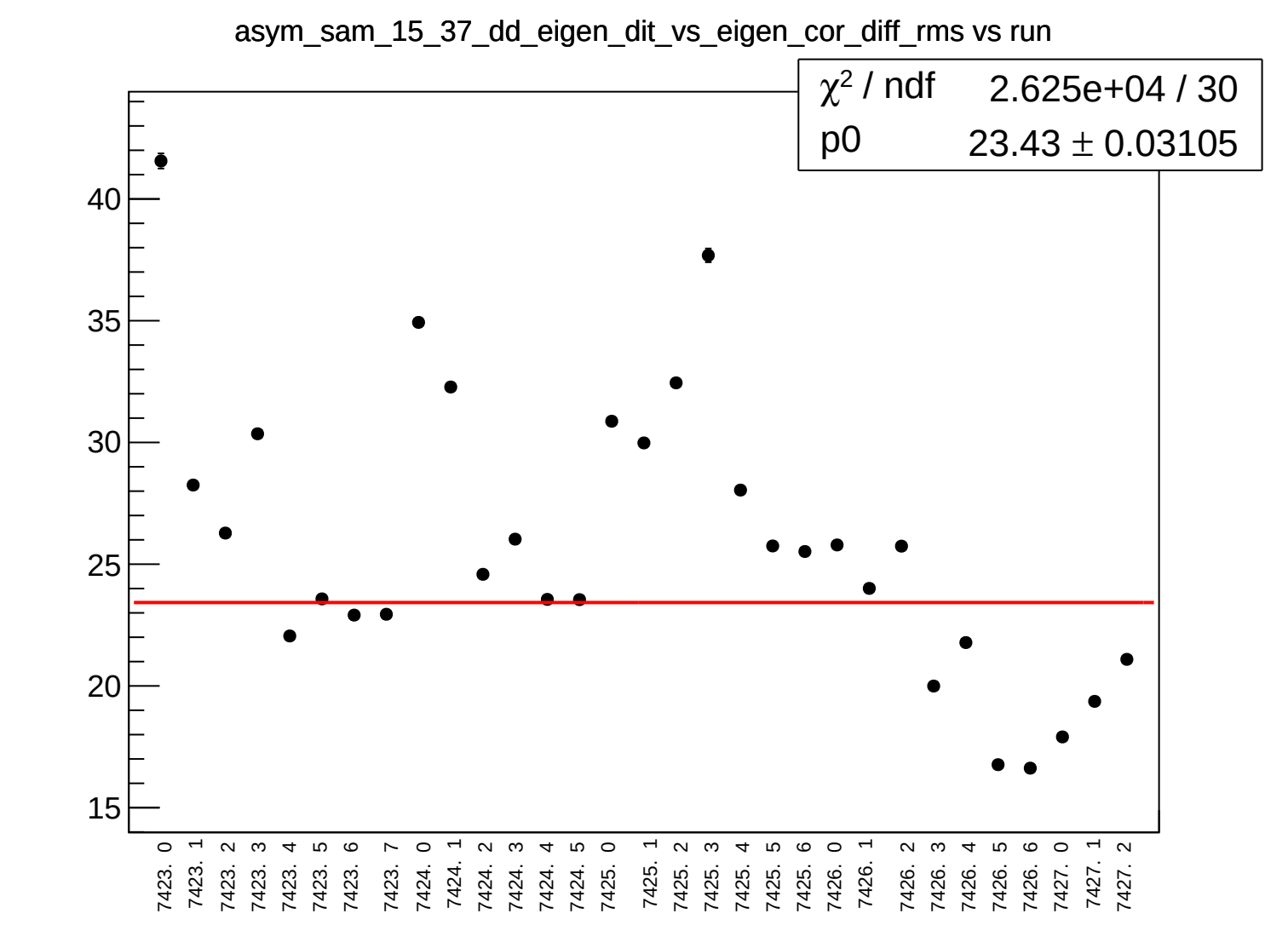

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2030 / 30
p0 0.001657 ± 2.151e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

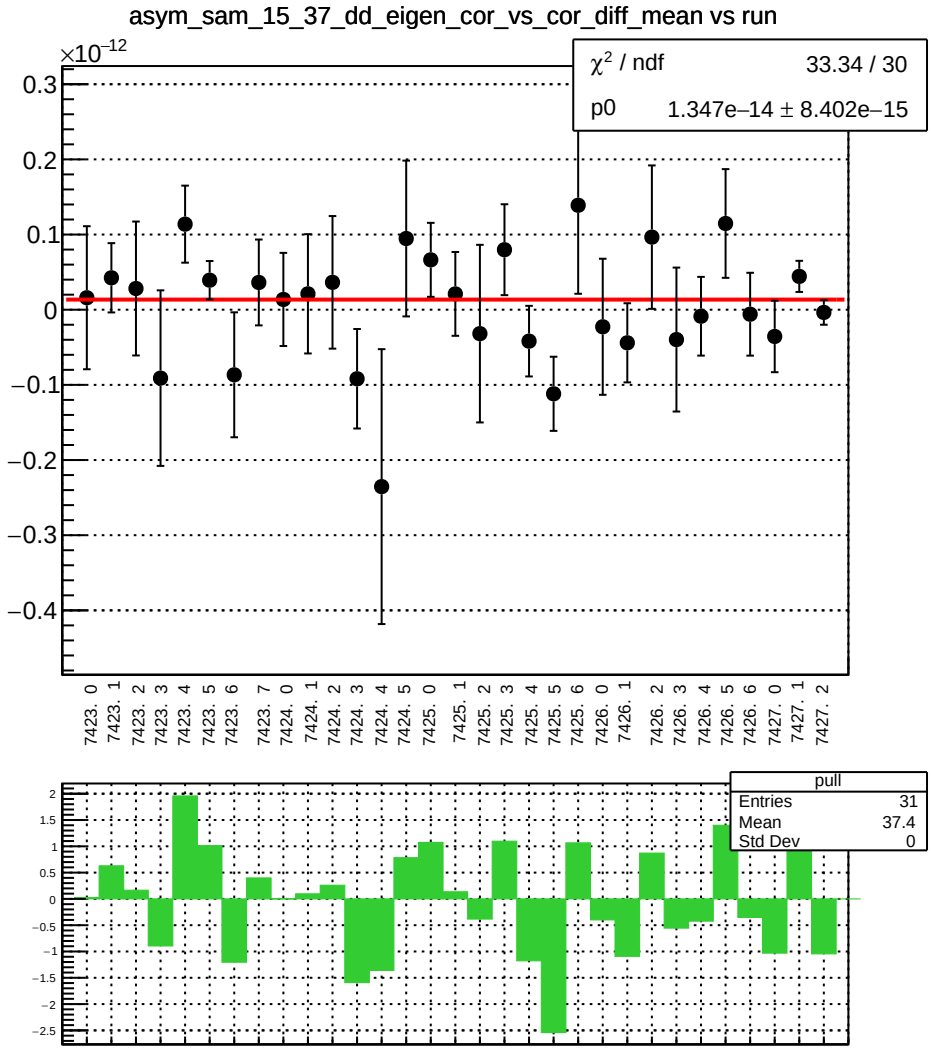

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.74 / 30
p0 0.04029 ± 0.04391
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −432.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.006421
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

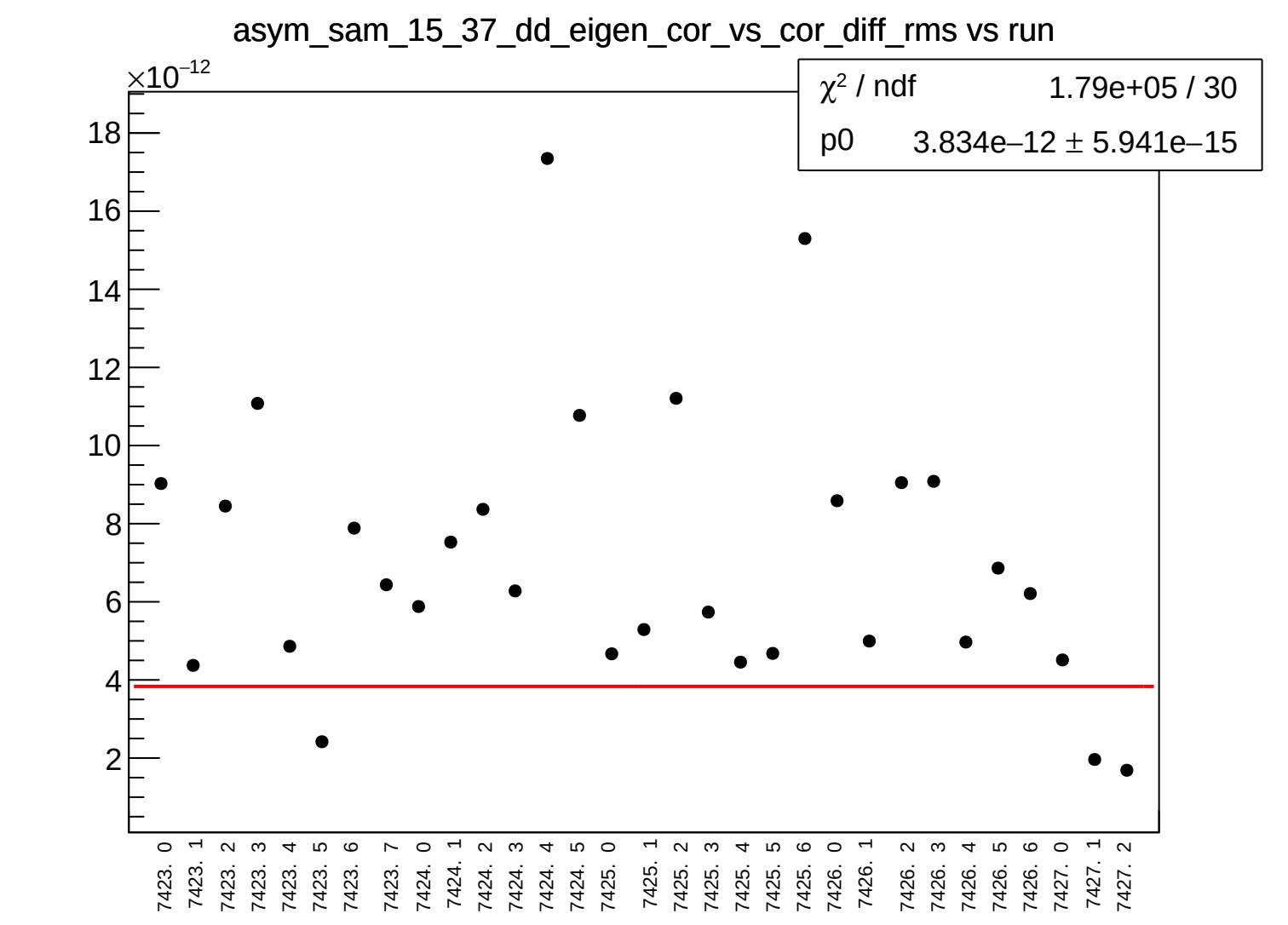

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.625e+04 / 30
p0 23.43 ± 0.03105
40
35
30
25
20
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

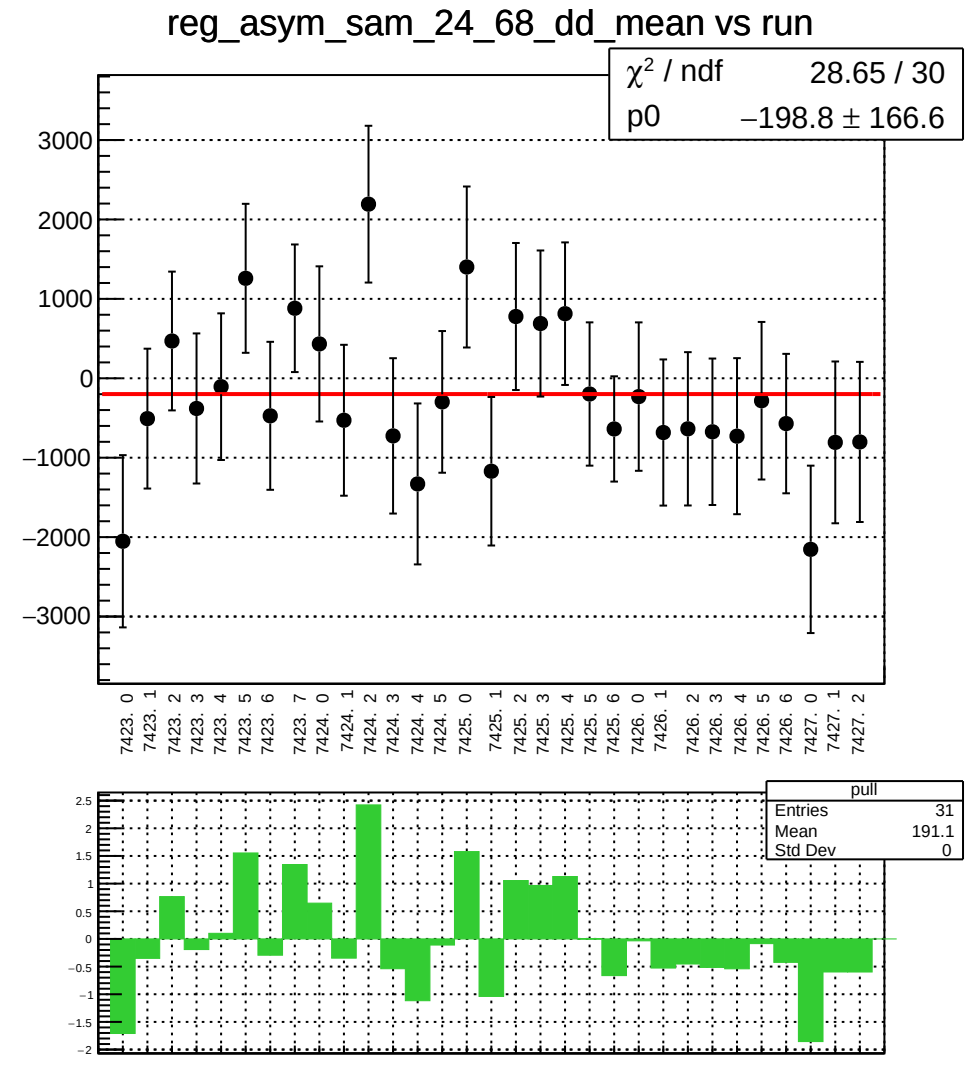

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.74 / 30
p0 0.04029 ± 0.04391
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −432.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

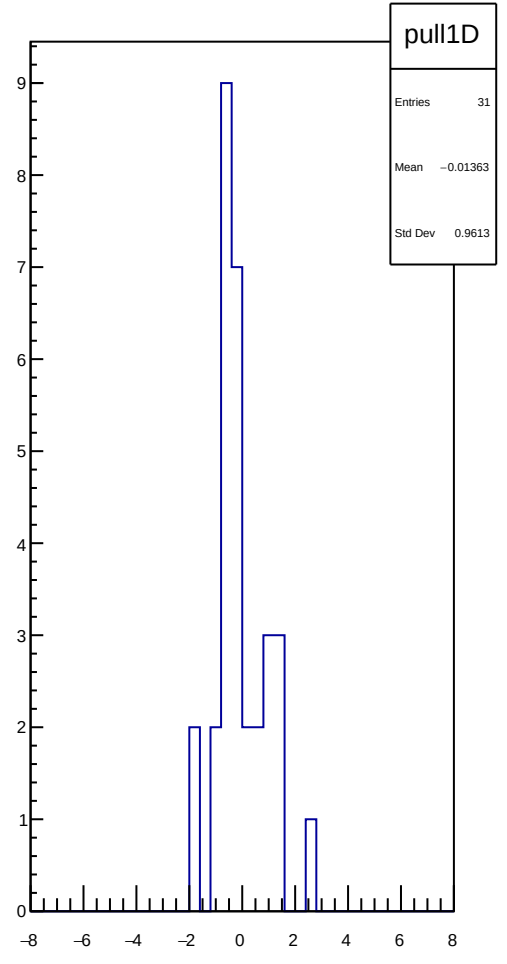

pull1D
Entries 31
Mean 0.006421
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

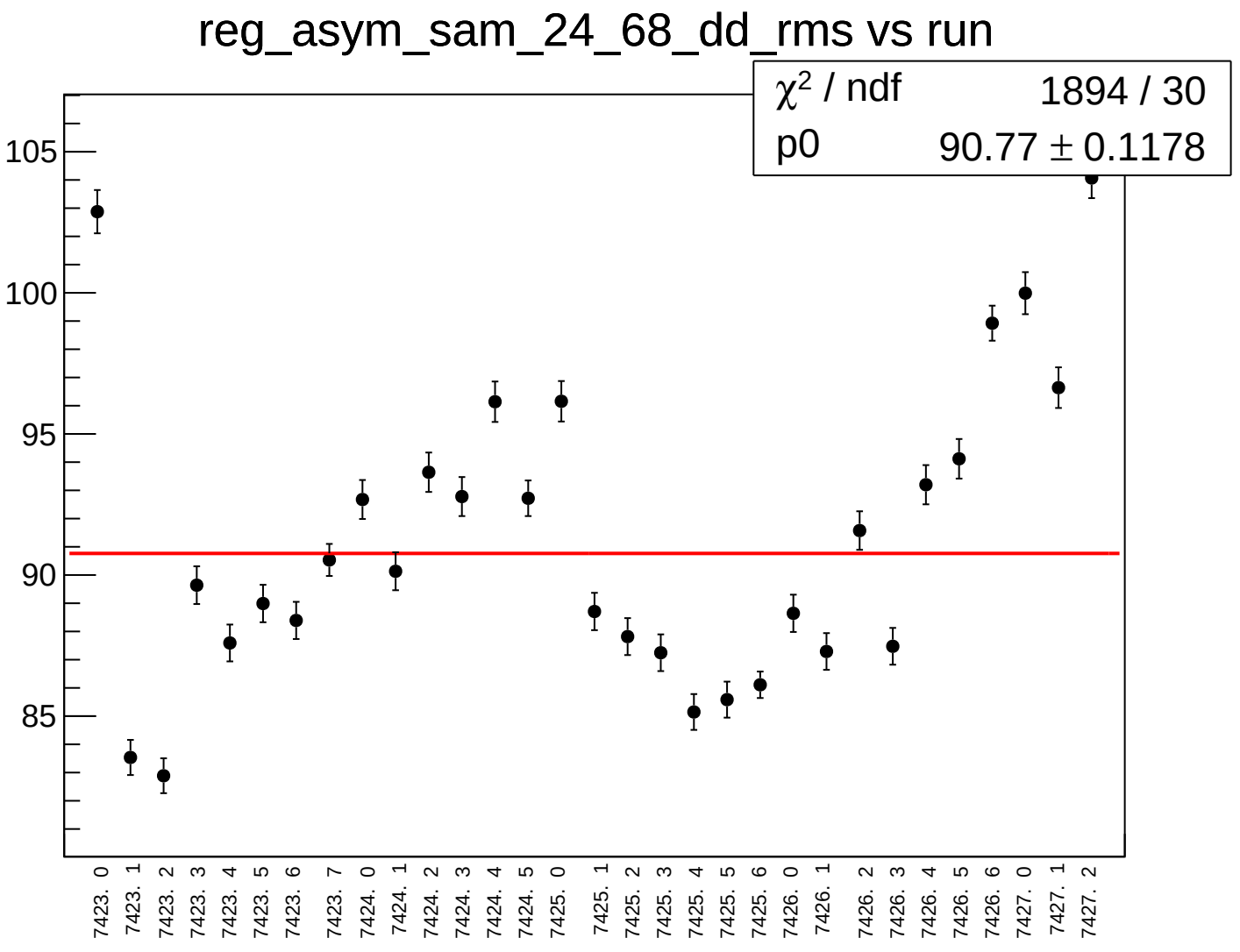

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.625e+04 / 30
p0 23.43 ± 0.03105
40
35
30
25
20
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

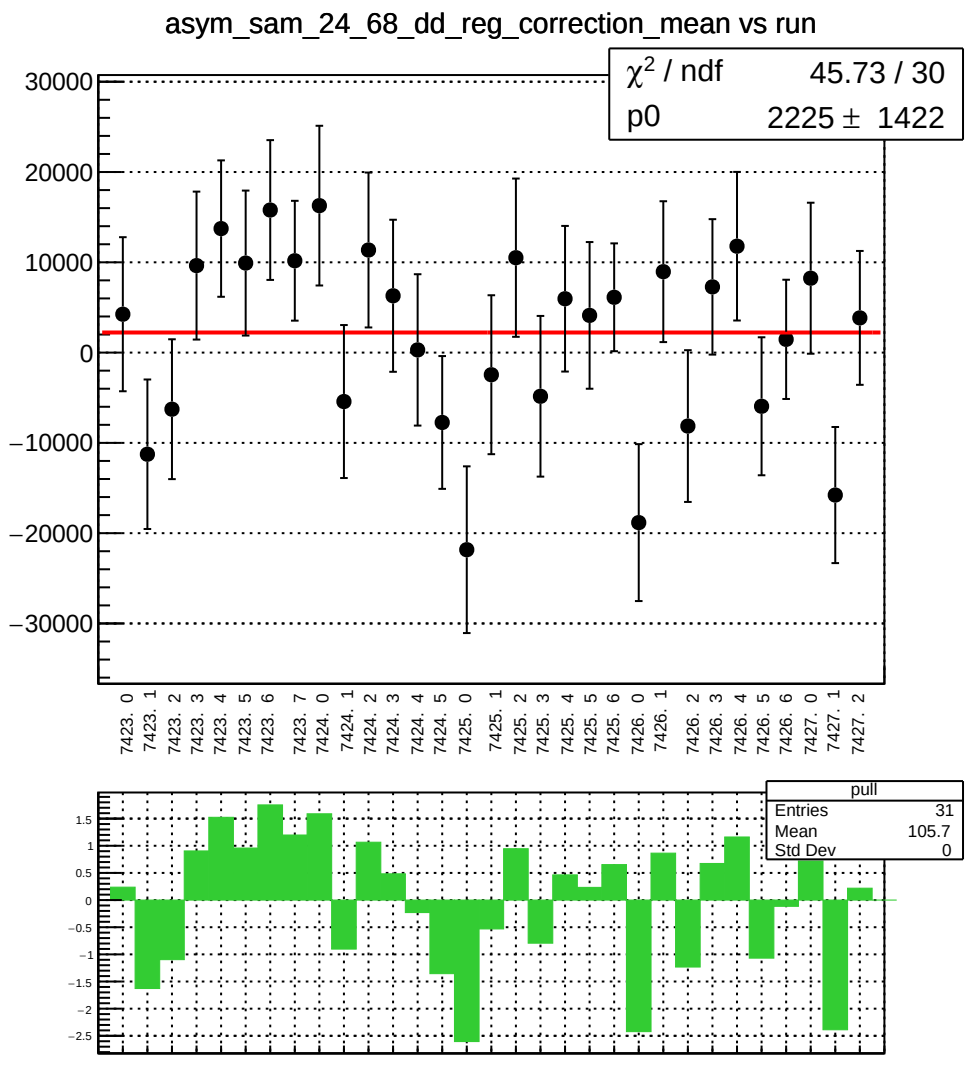

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.34 / 30
p0 1.347e−14 ± 8.402e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 37.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.05103
Std Dev 1.036
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

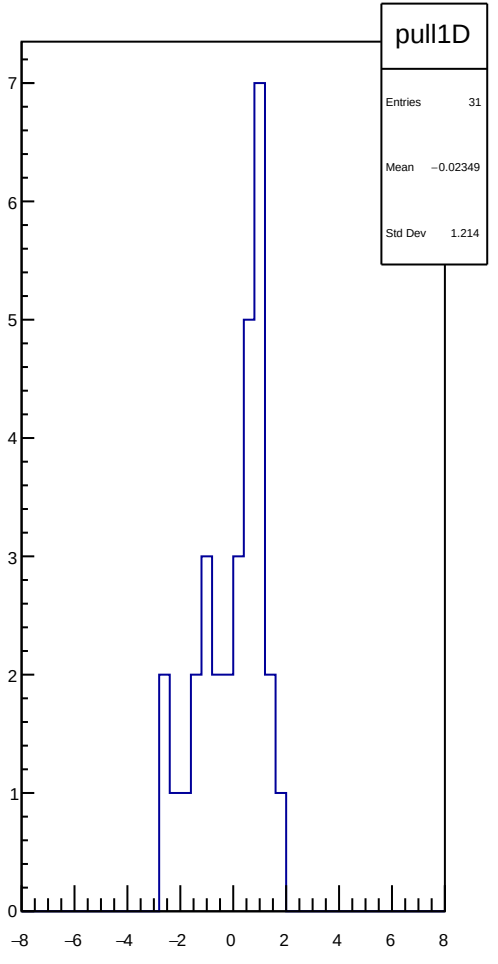

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.79e+05 / 30
p0 3.834e−12 ± 5.941e−15
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

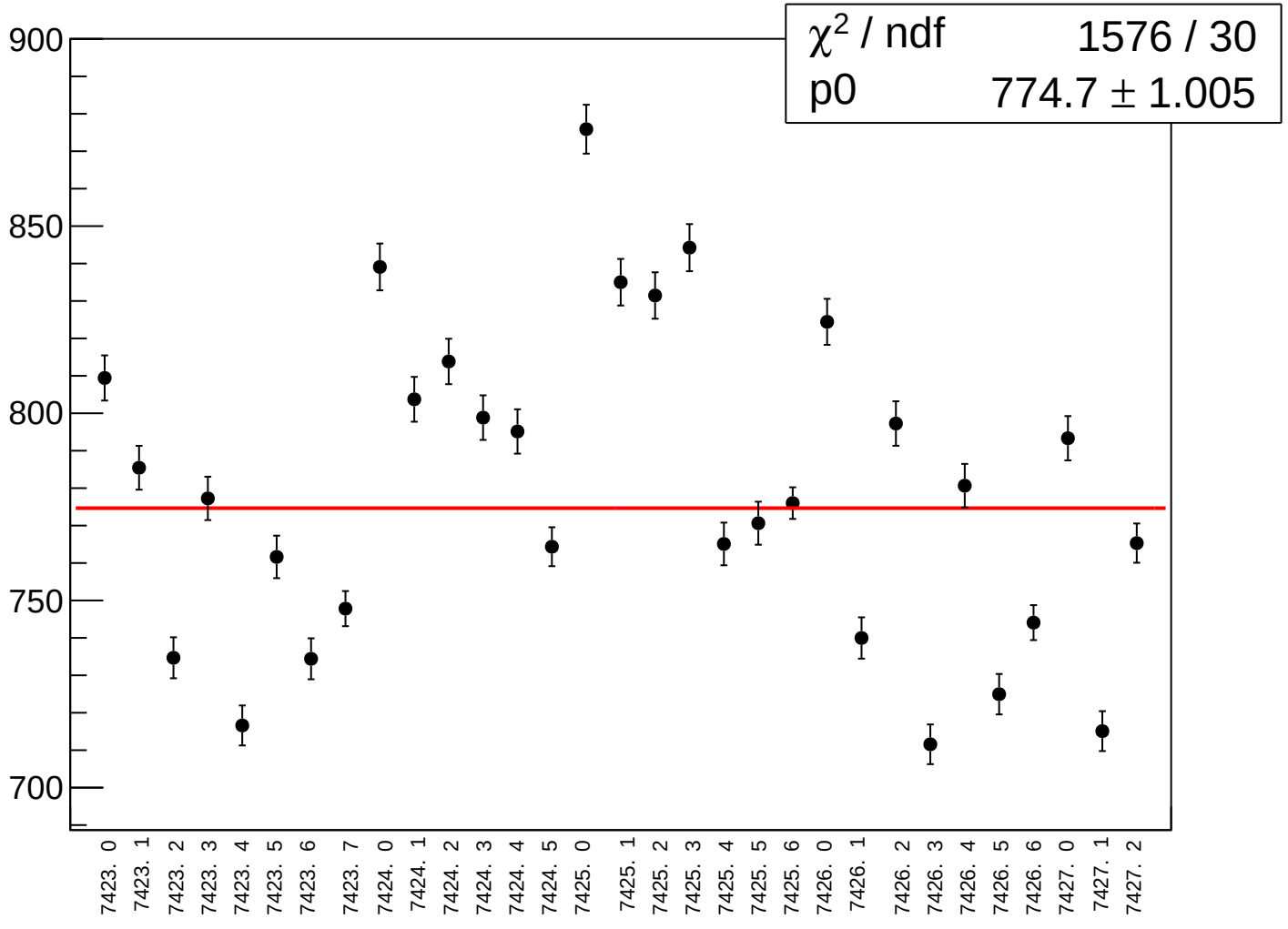

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 28.65 / 30
p0 −198.8 ± 166.6
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 191.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

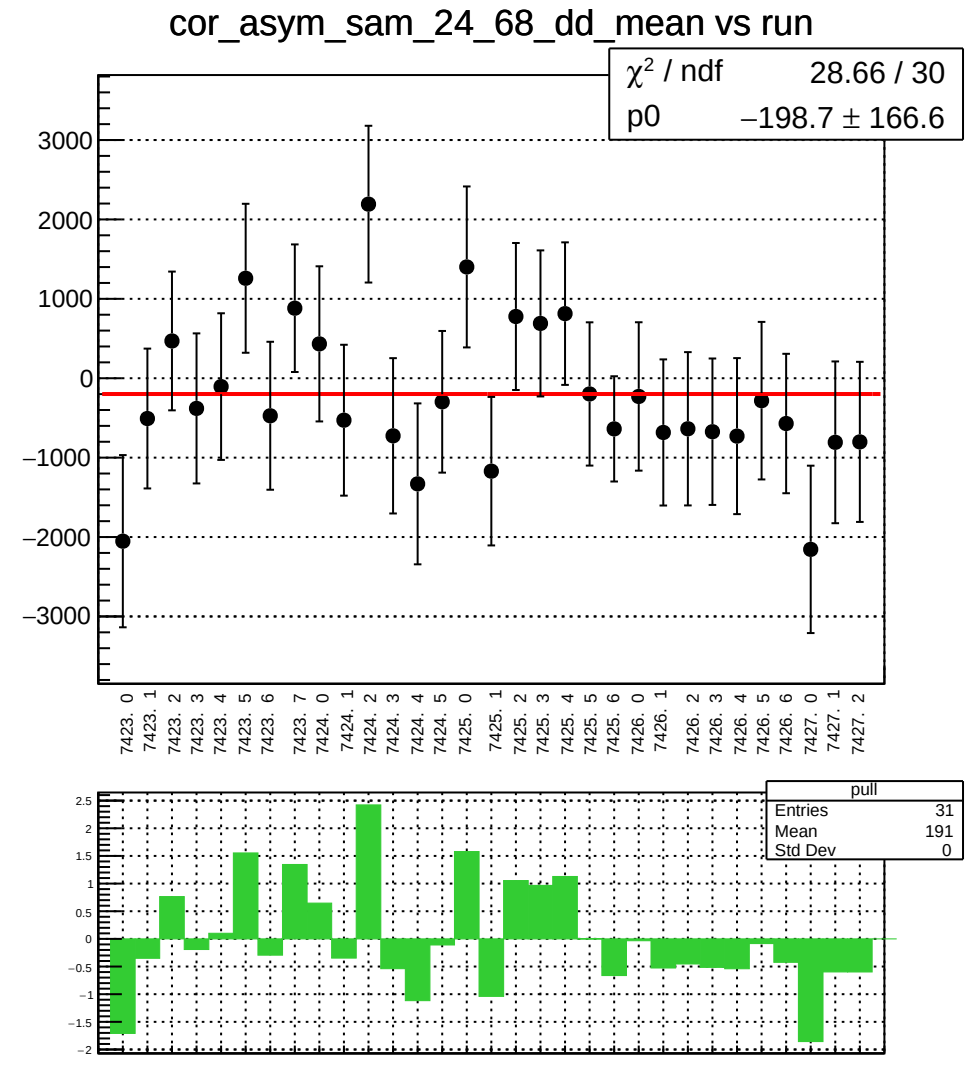

pull1D
Entries 31
Mean −0.01363
Std Dev 0.9613
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

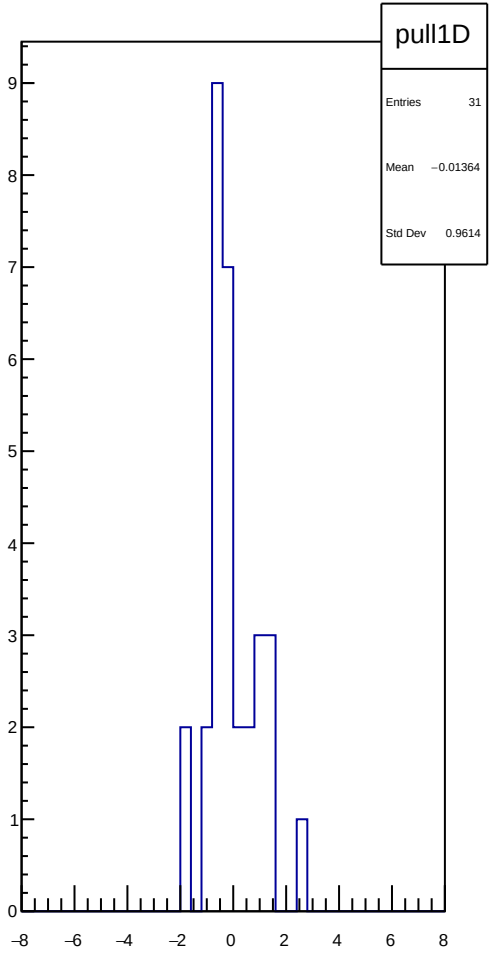

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1894 / 30
p0 90.77 ± 0.1178
105
100
95
90
85
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

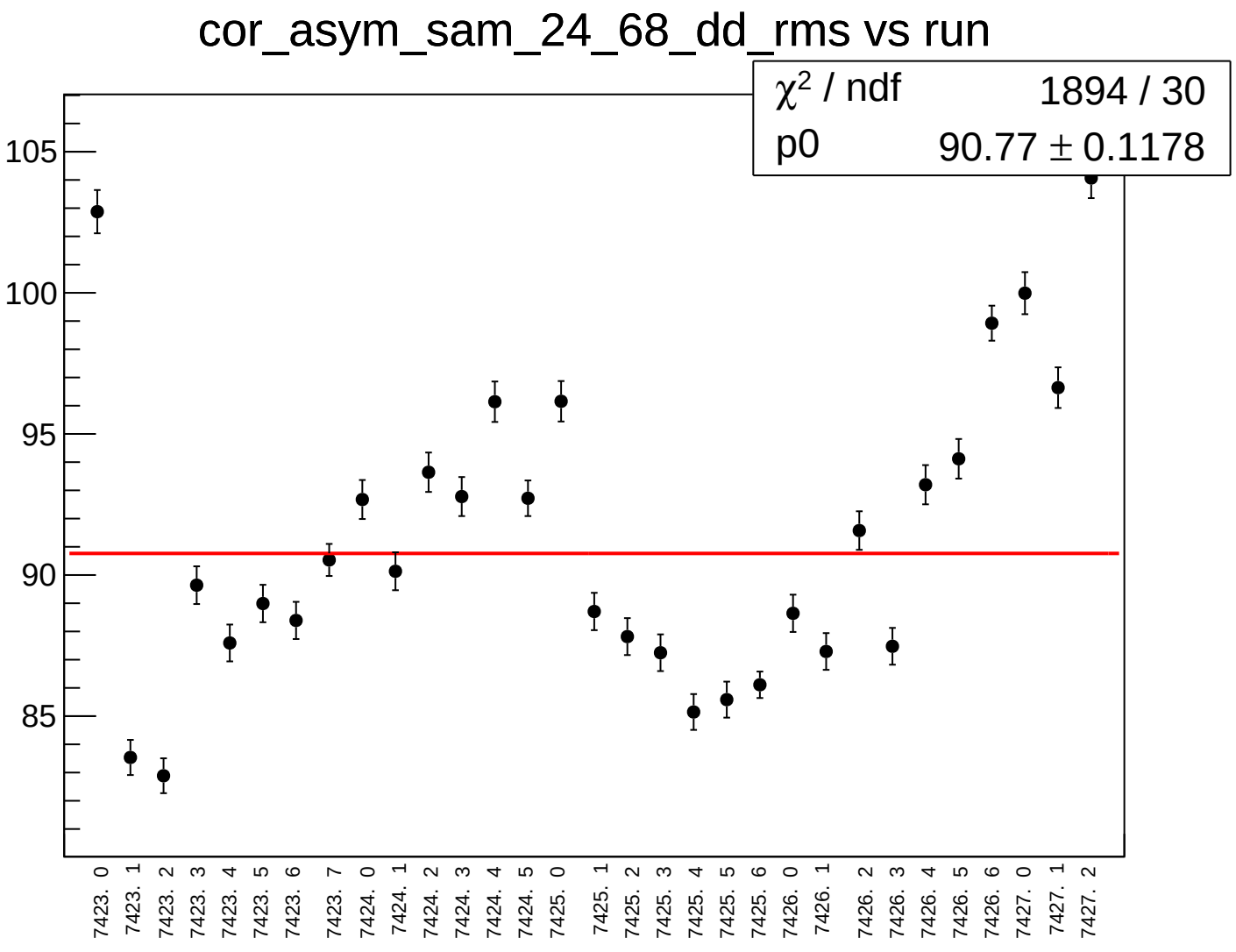

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 45.73 / 30
p0 2225 ± 1422
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 105.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

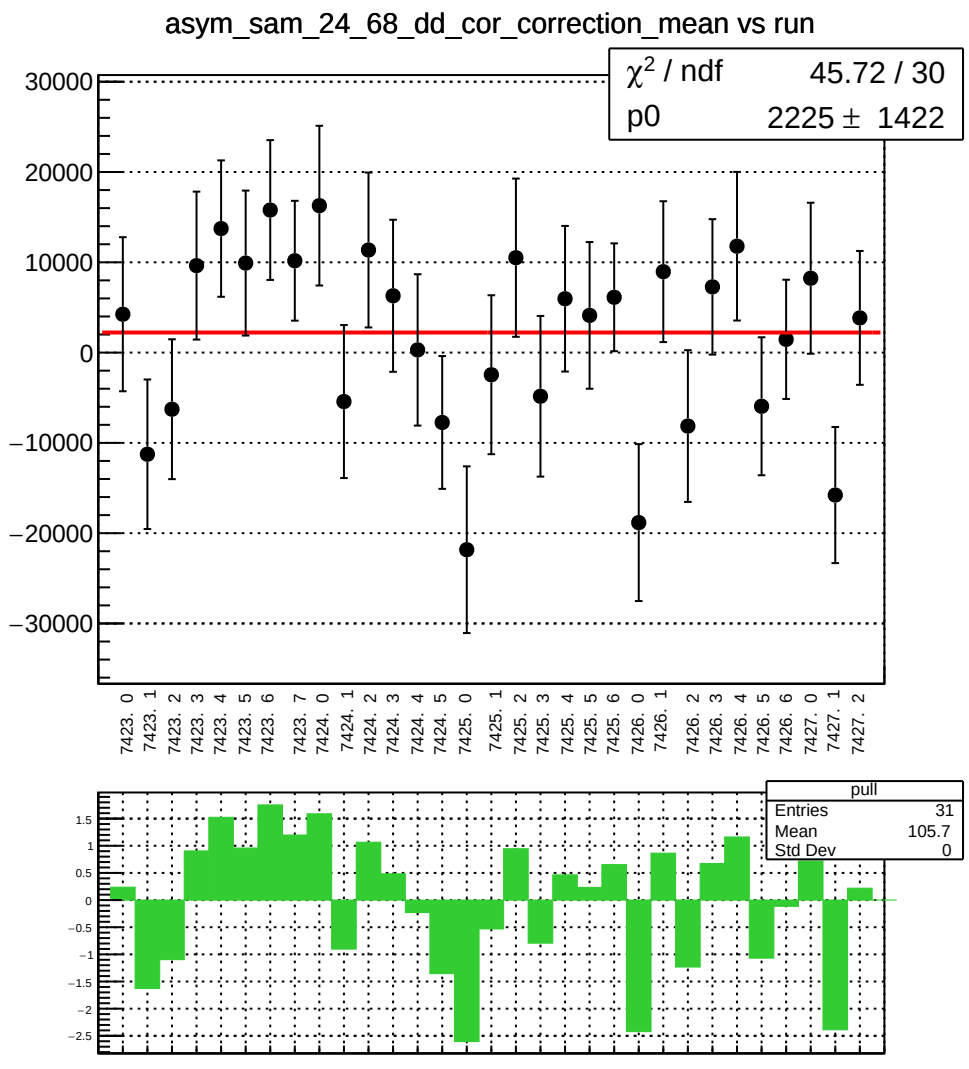

pull1D
Entries 31
Mean −0.02349
Std Dev 1.214
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

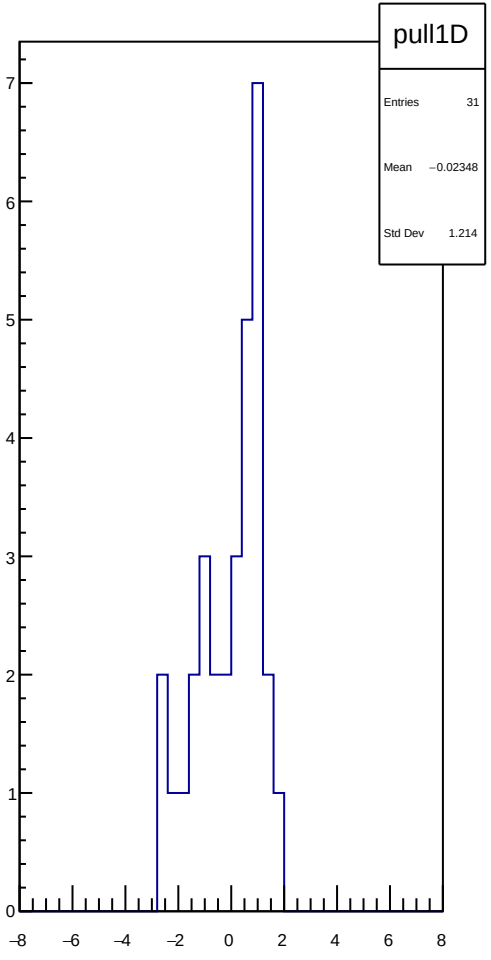

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1576 / 30
p0 774.7 ± 1.005
900
850
800
750
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

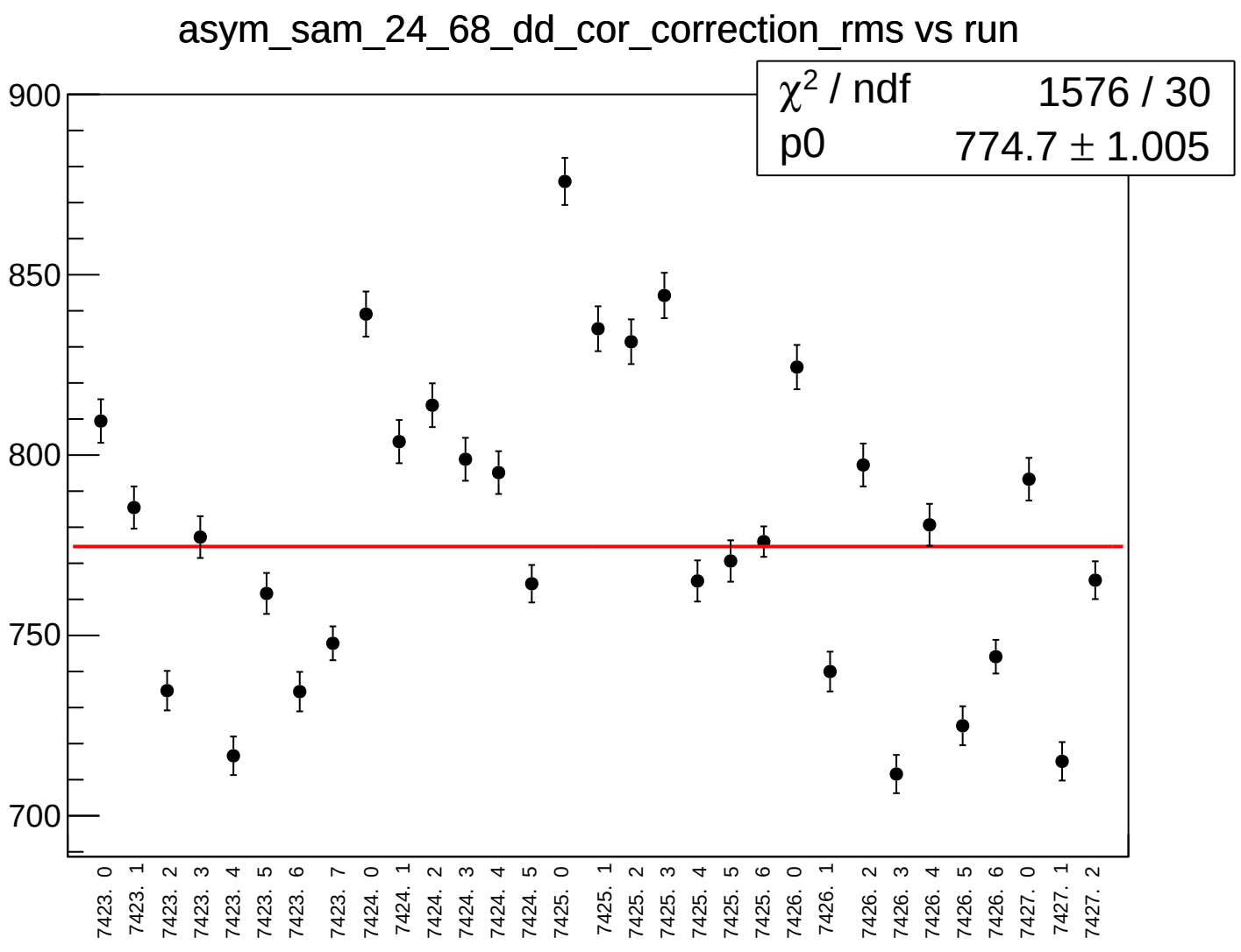

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 28.66 / 30
p0 −198.7 ± 166.6
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 191
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

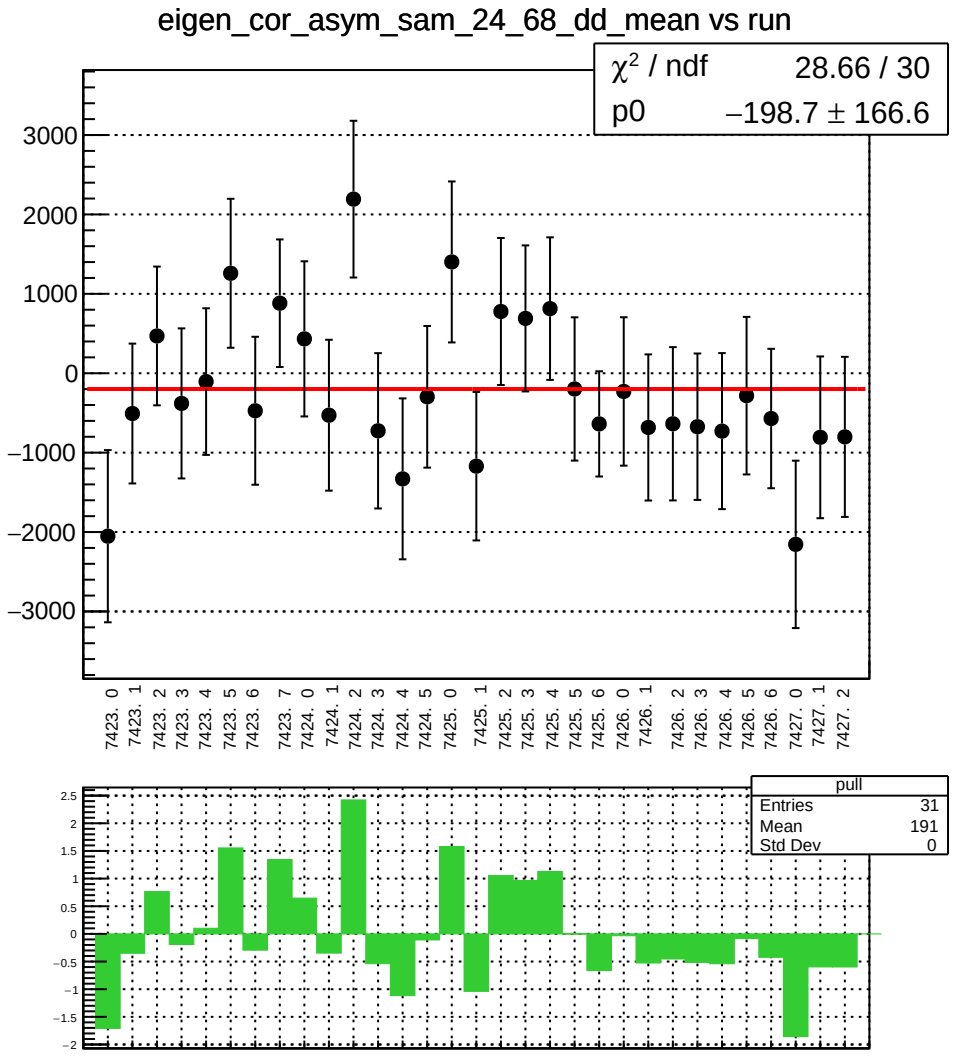

pull1D
Entries 31
Mean −0.01364
Std Dev 0.9614
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

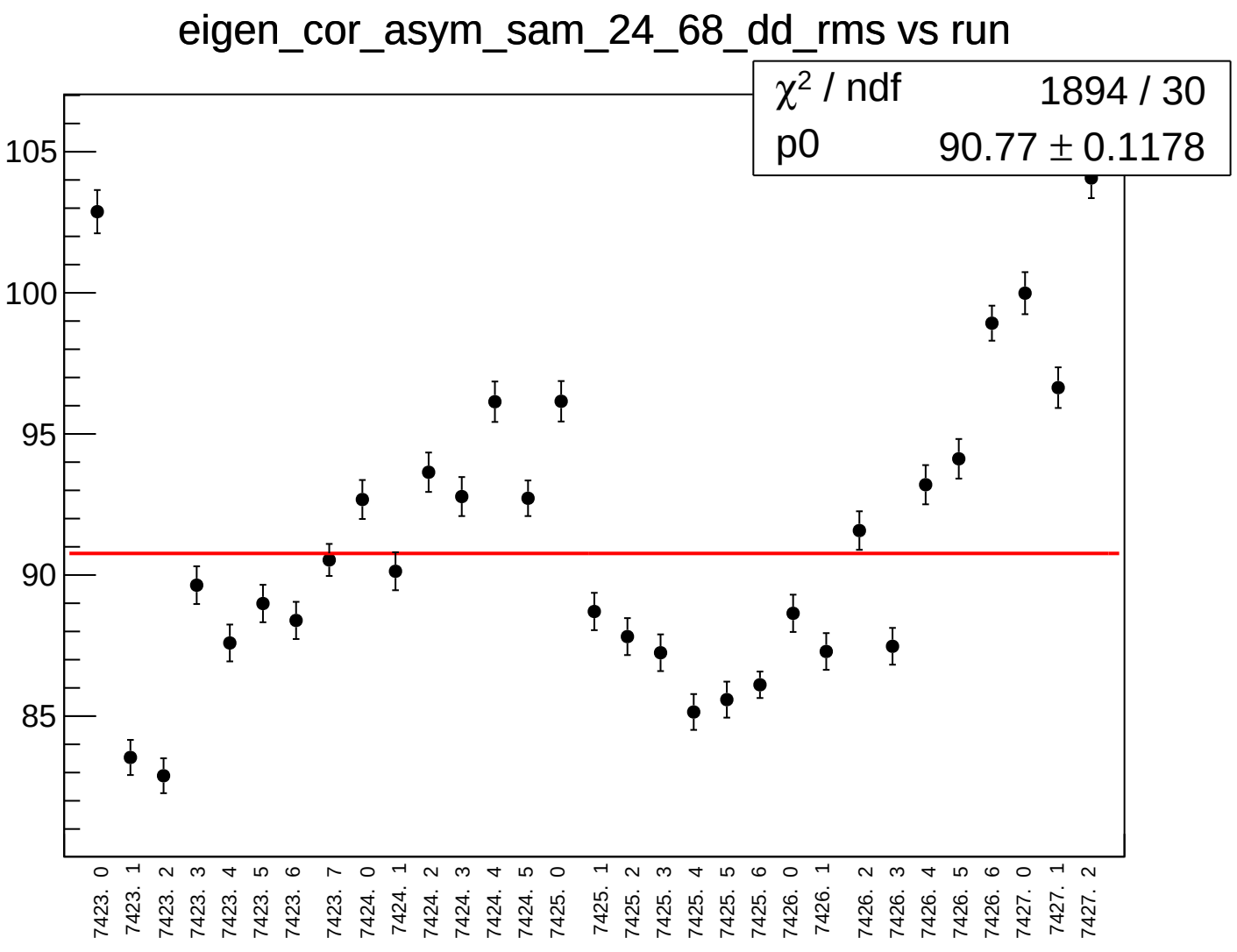

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1894 / 30
p0 90.77 ± 0.1178
105
100
95
90
85
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

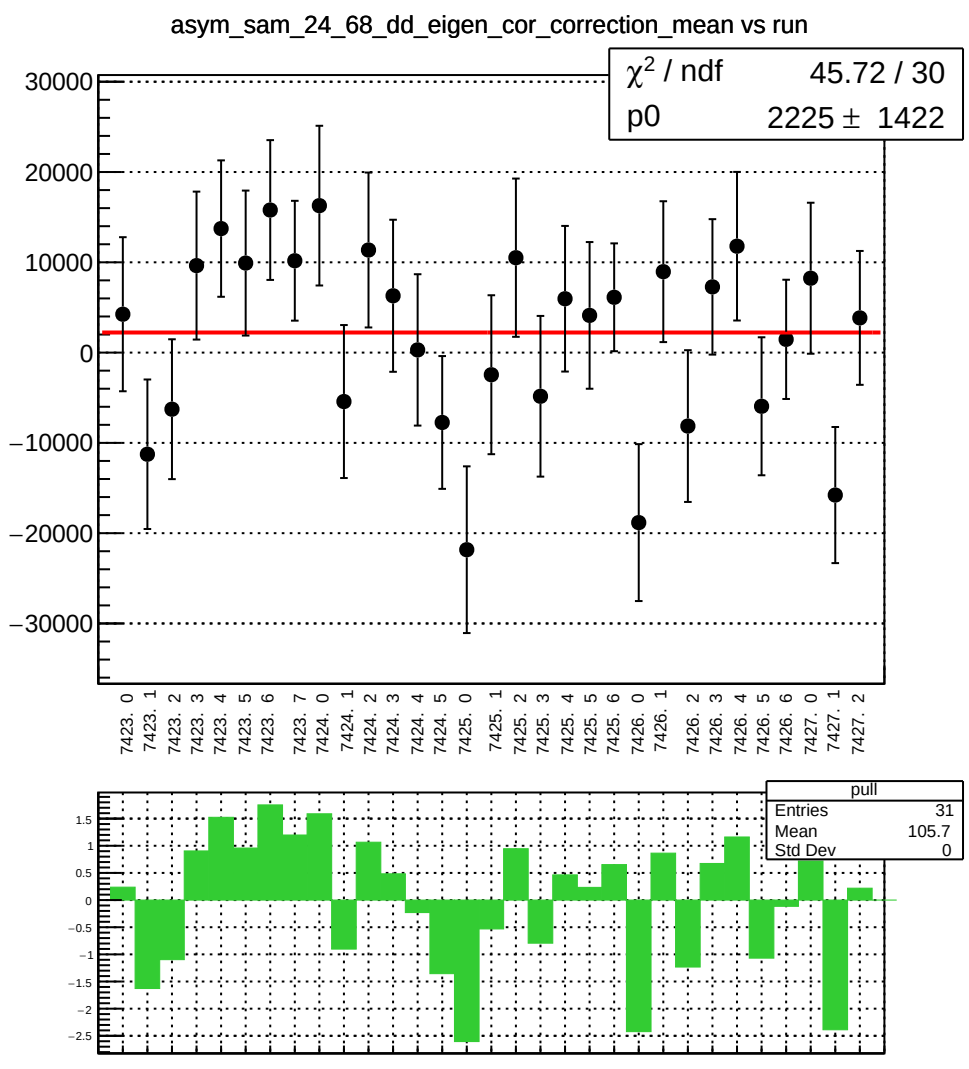

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 45.72 / 30
p0 2225 ± 1422
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 105.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

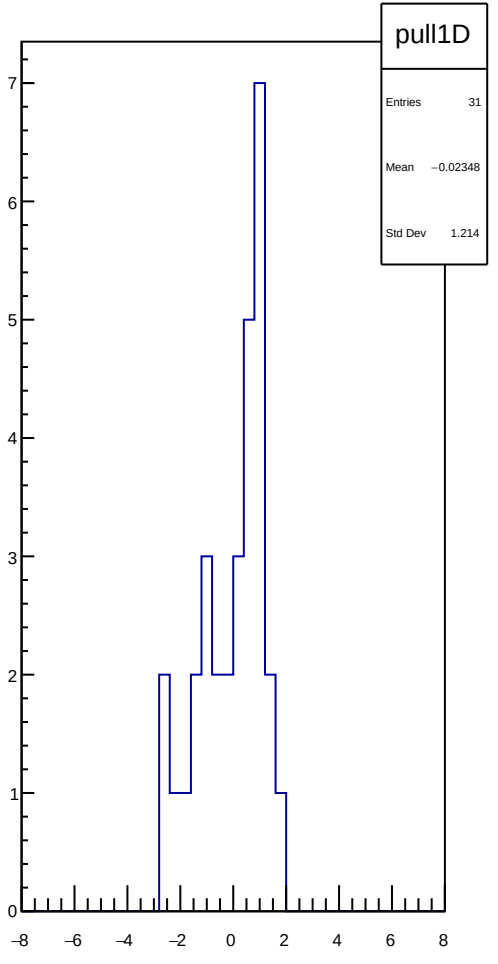

pull1D
Entries 31
Mean −0.02348
Std Dev 1.214
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

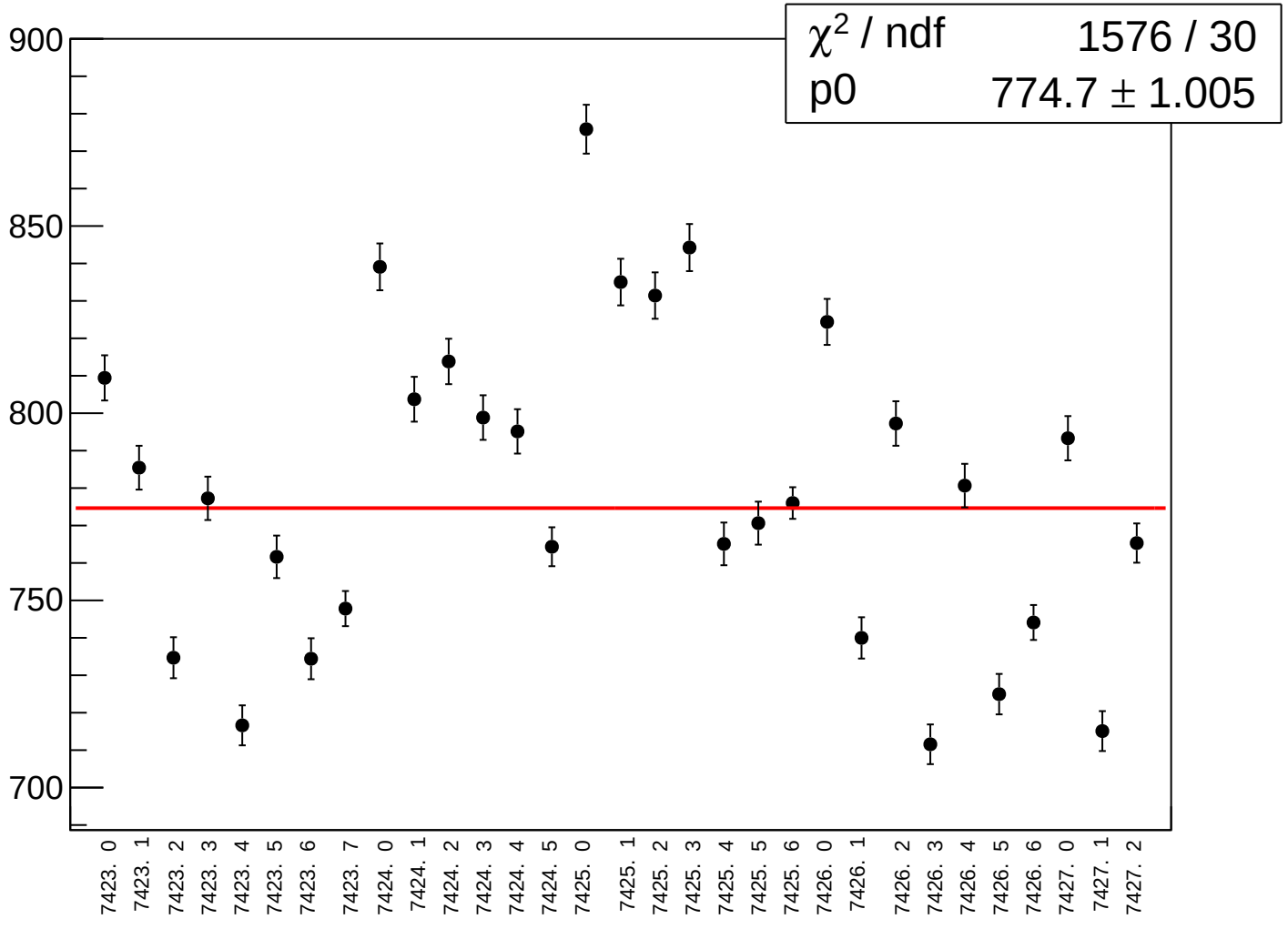

asym_sam_24_68_dd_cor_correction_rms vs run
χ^2 / ndf 1576 / 30
p0 774.7 ± 1.005
900
850
800
750
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

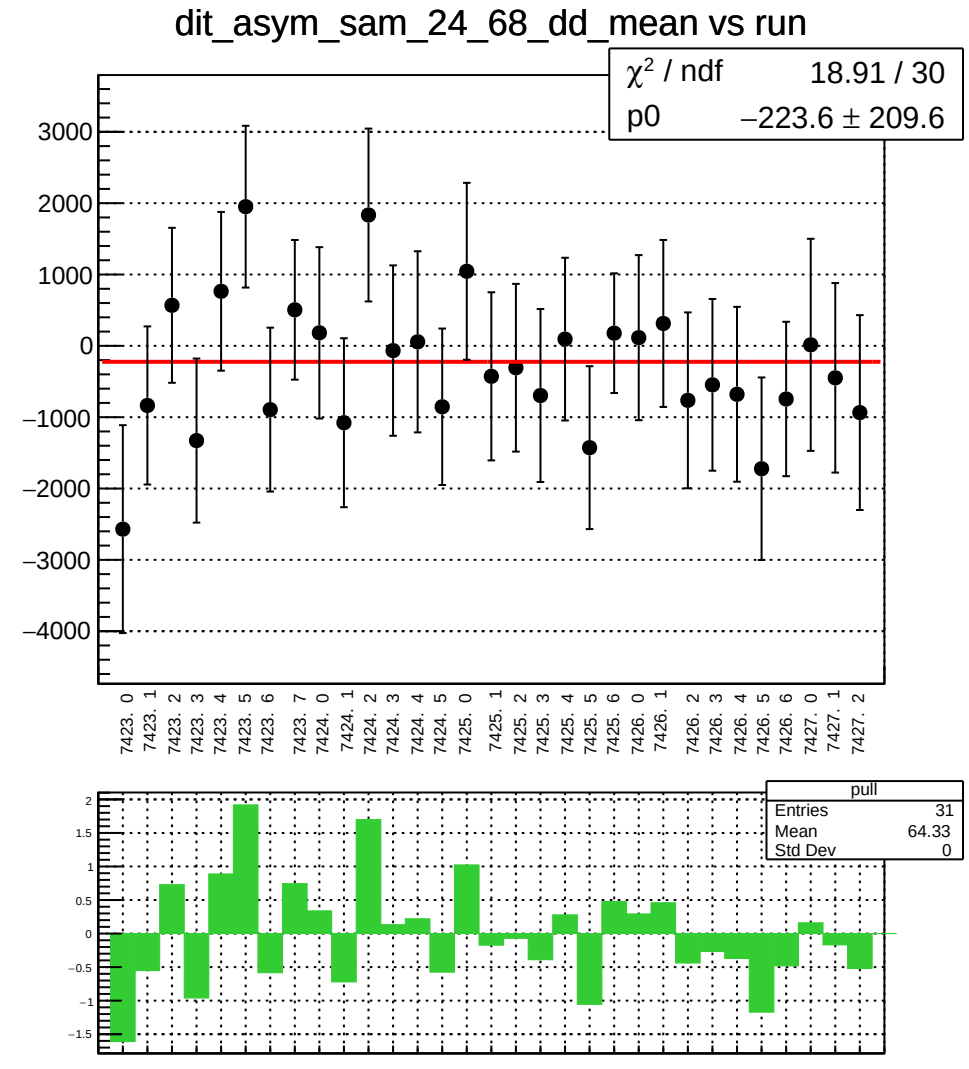

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 28.66 / 30
p0 −198.7 ± 166.6
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 191
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01364
Std Dev 0.9614
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

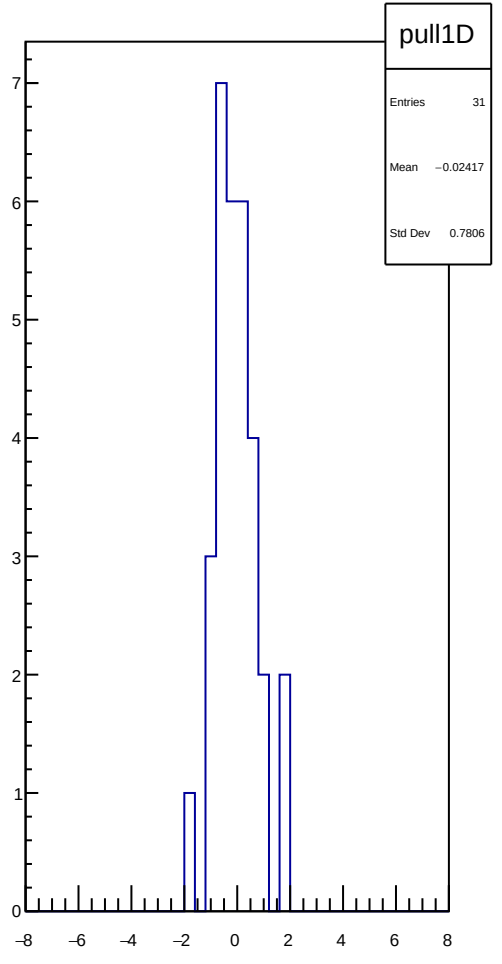

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1894 / 30
p0 90.77 ± 0.1178
105
100
95
90
85
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

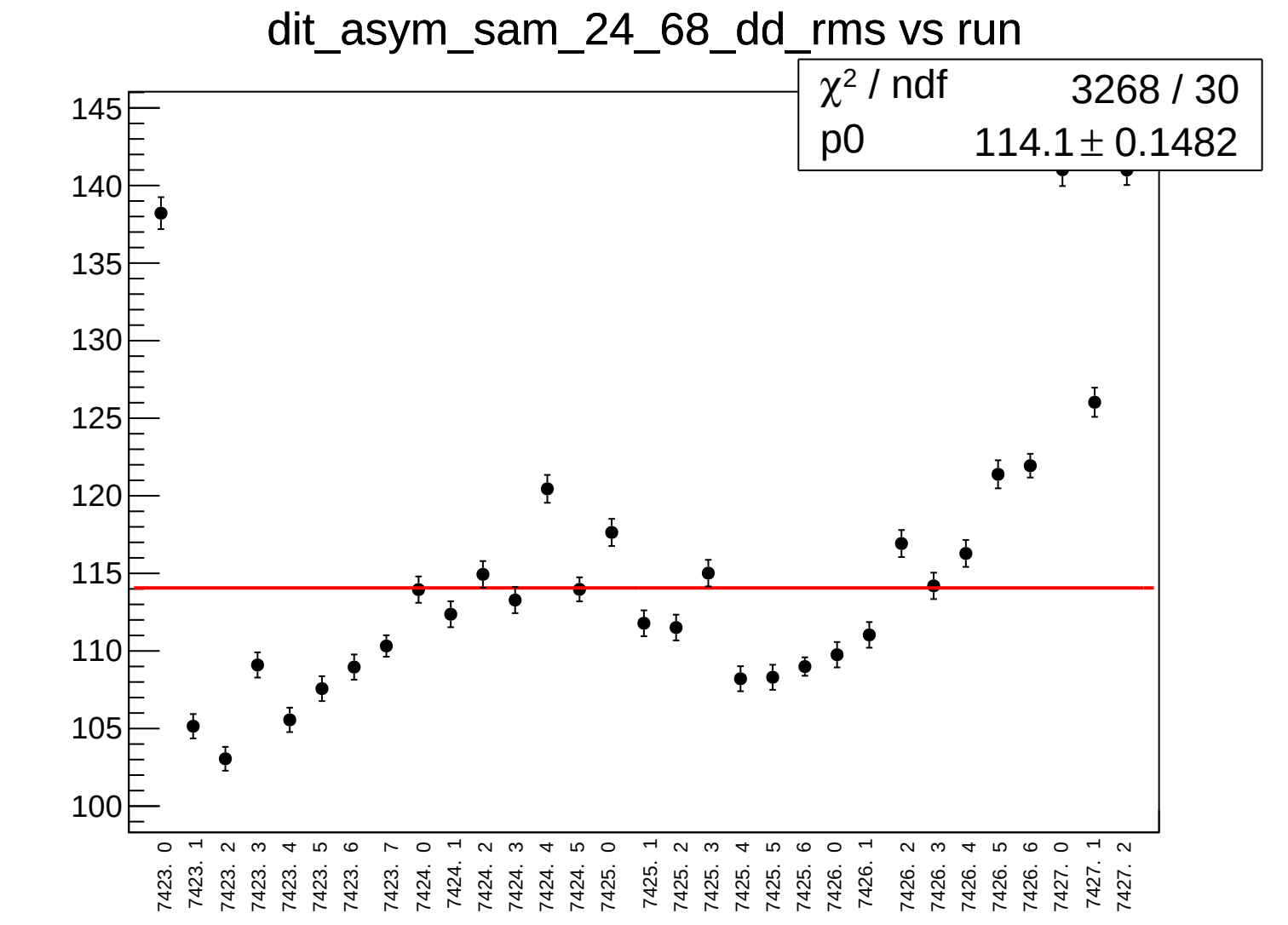

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 45.72 / 30
p0 2225 ± 1422
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 105.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

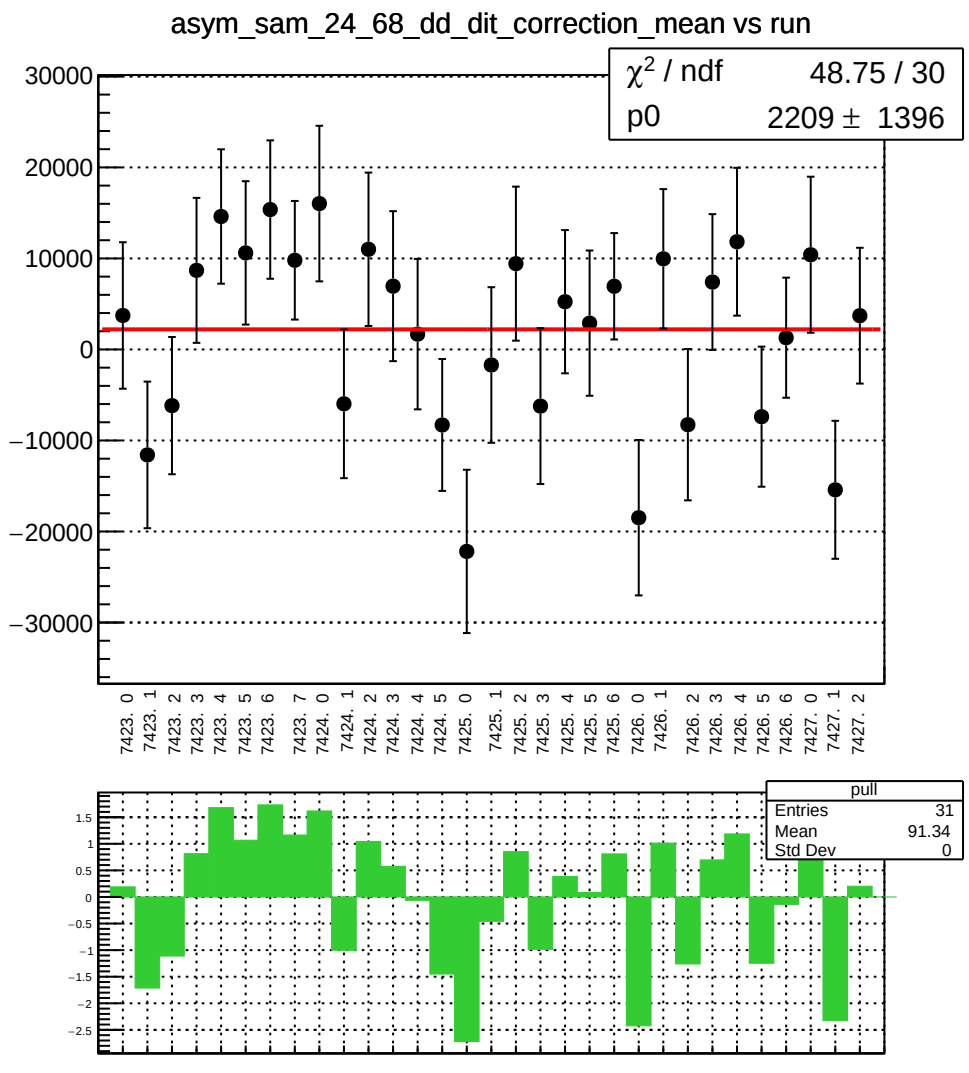

pull1D
Entries 31
Mean −0.02348
Std Dev 1.214
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

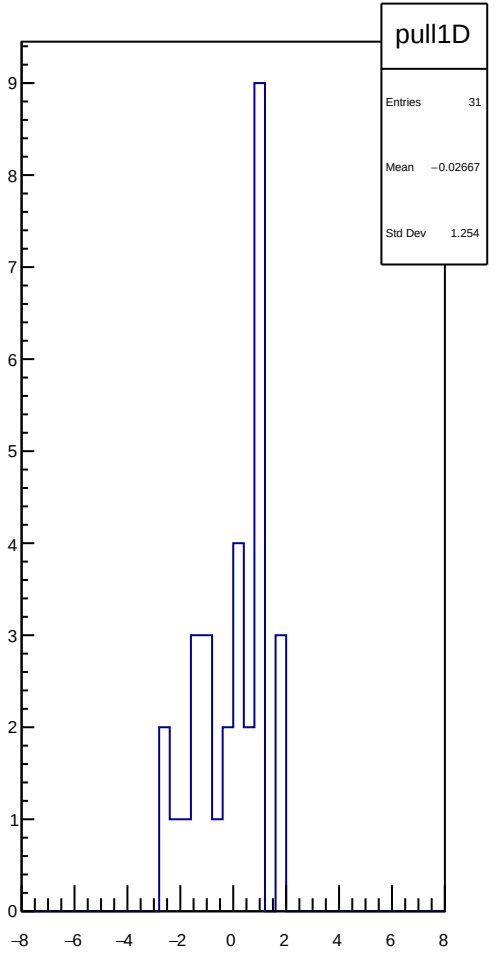

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1576 / 30
p0 774.7 ± 1.005
900
850
800
750
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

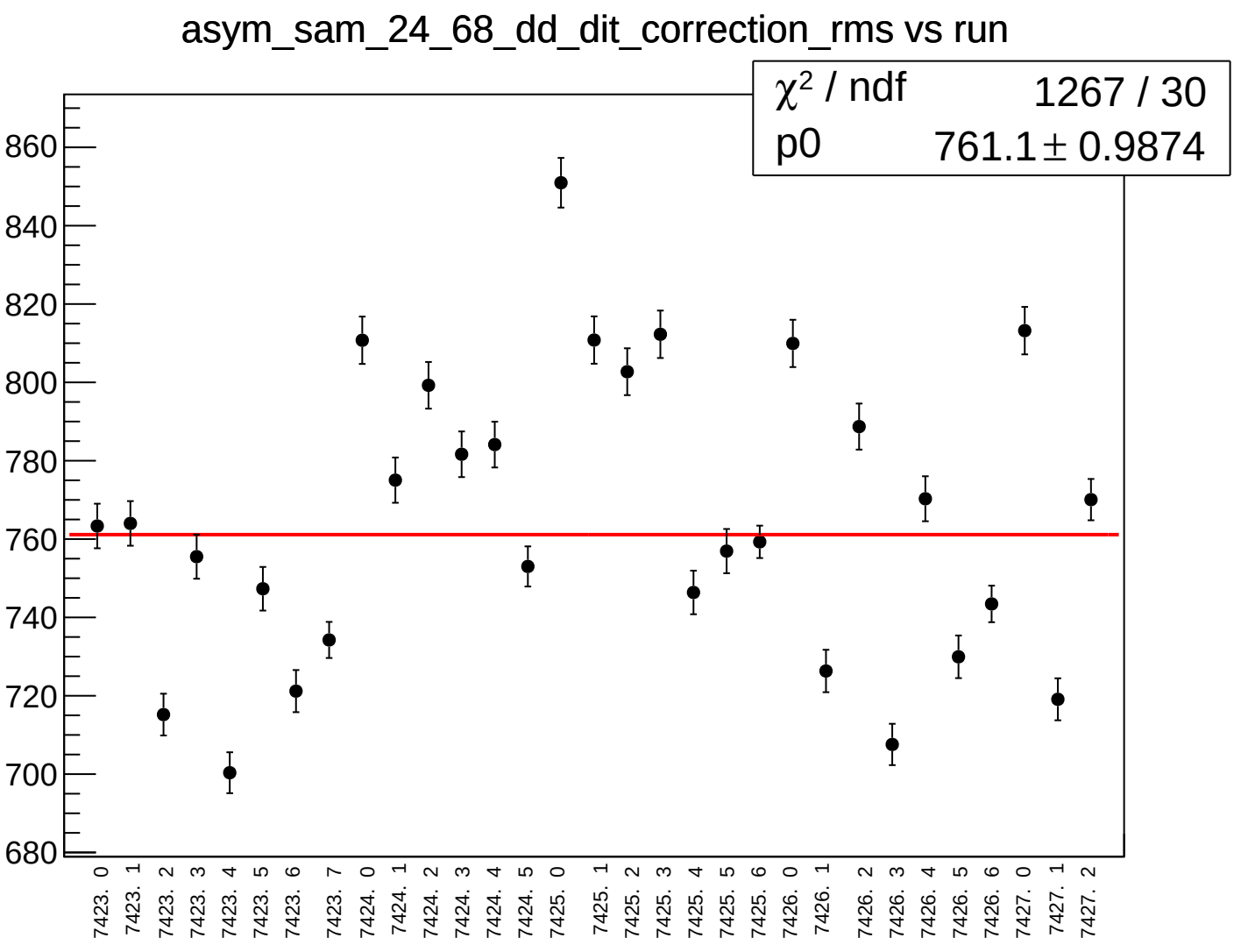

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 18.91 / 30
p0 −223.6 ± 209.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 64.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

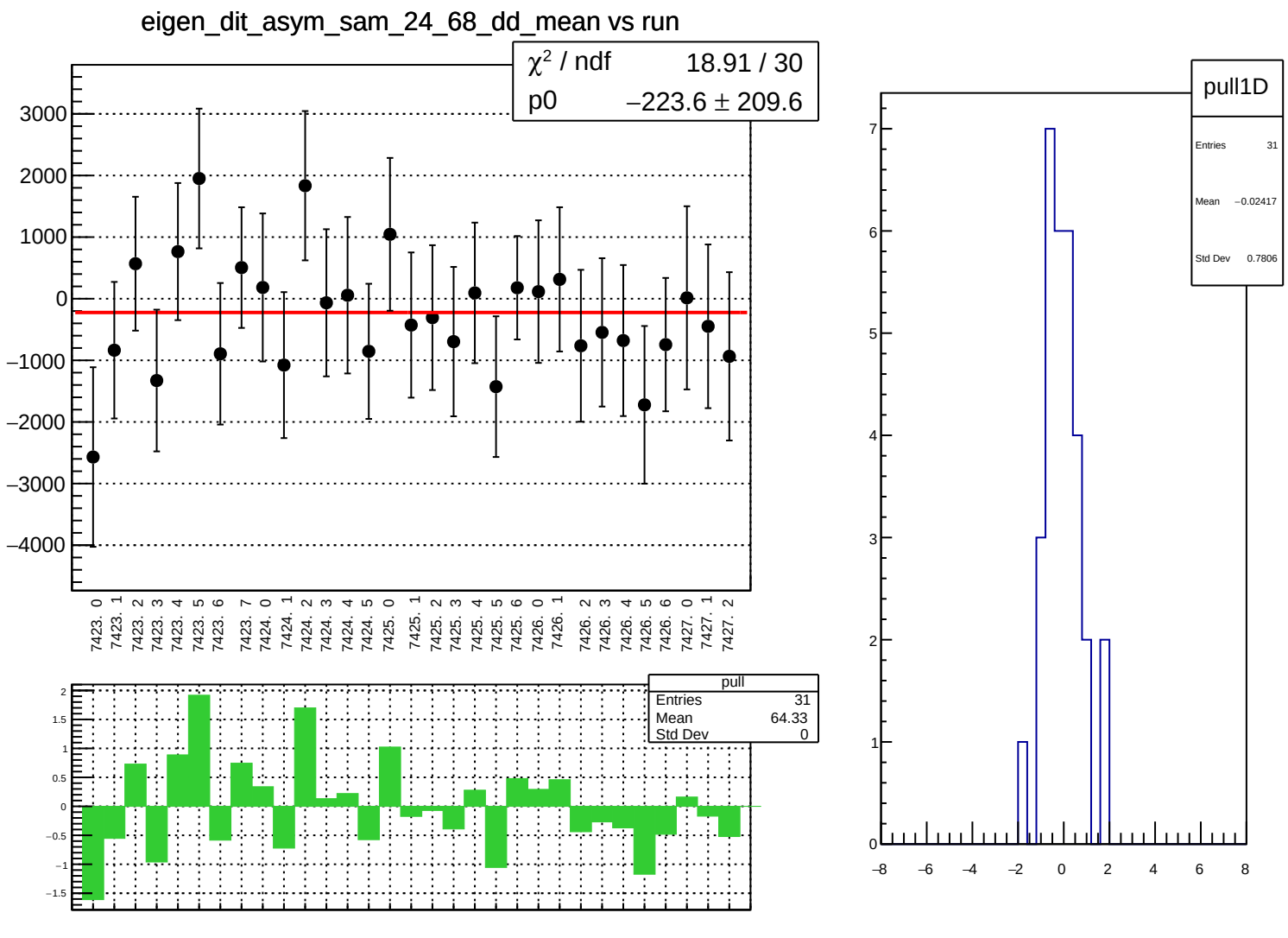

pull1D
Entries 31
Mean −0.02417
Std Dev 0.7806
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

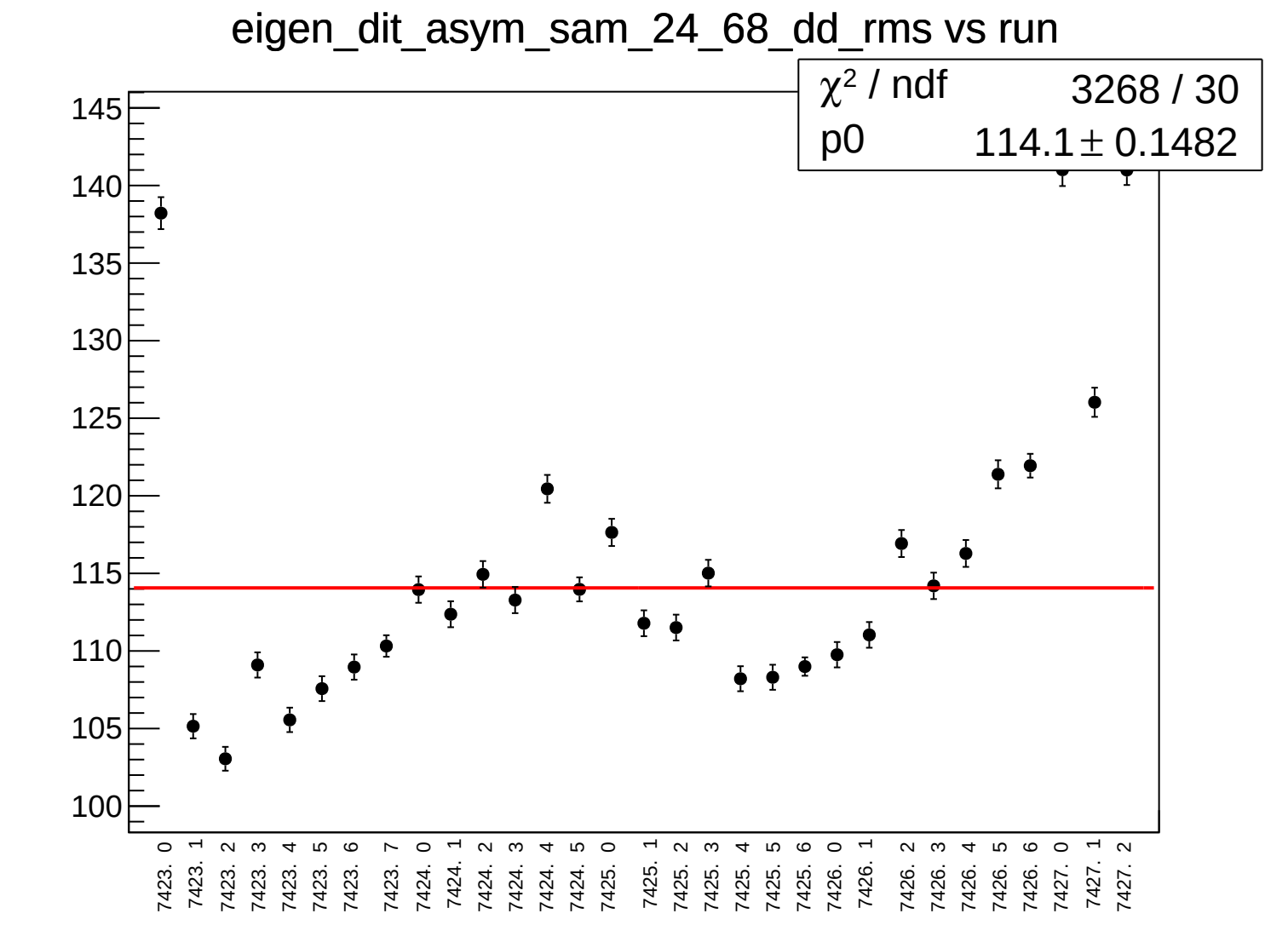

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3268 / 30
p0 114.1 ± 0.1482
145
140
135
130
125
120
115
110
105
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

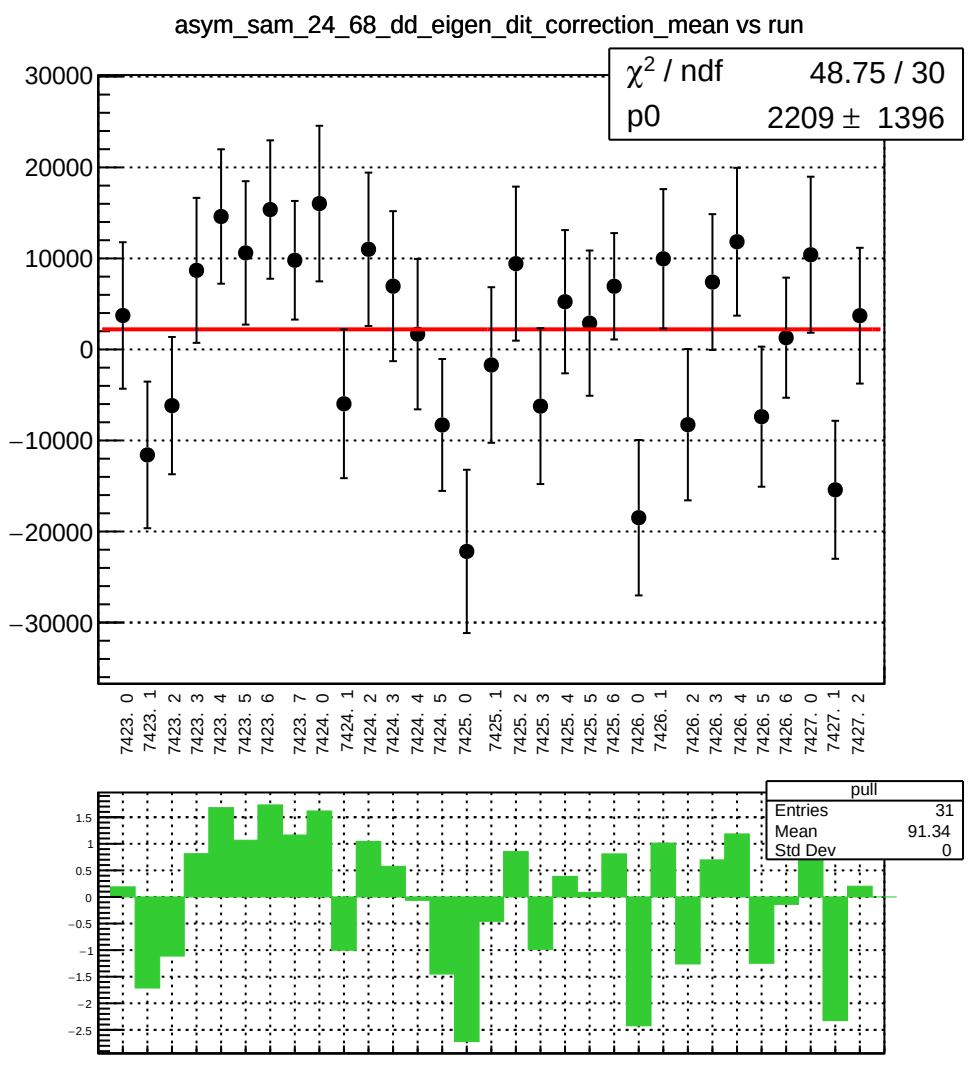

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 48.75 / 30
p0 2209 ± 1396
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 91.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

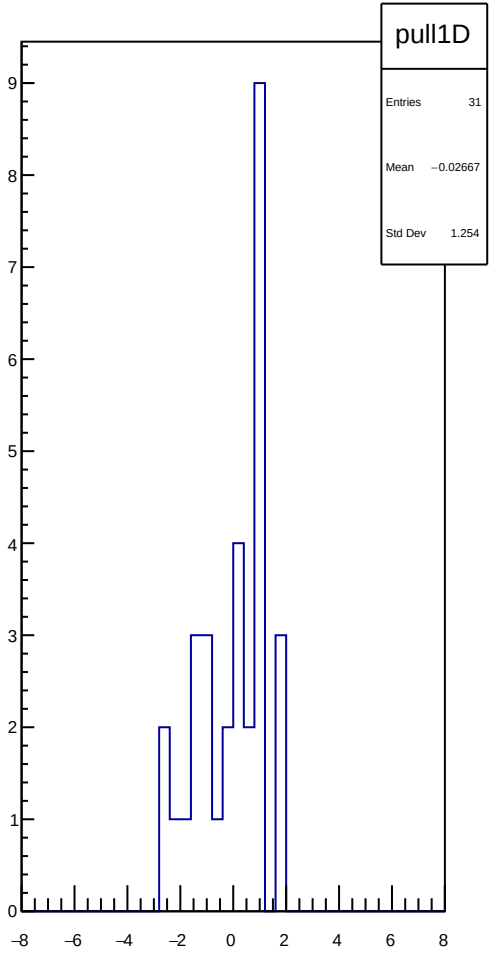

pull1D
Entries 31
Mean −0.02667
Std Dev 1.254
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

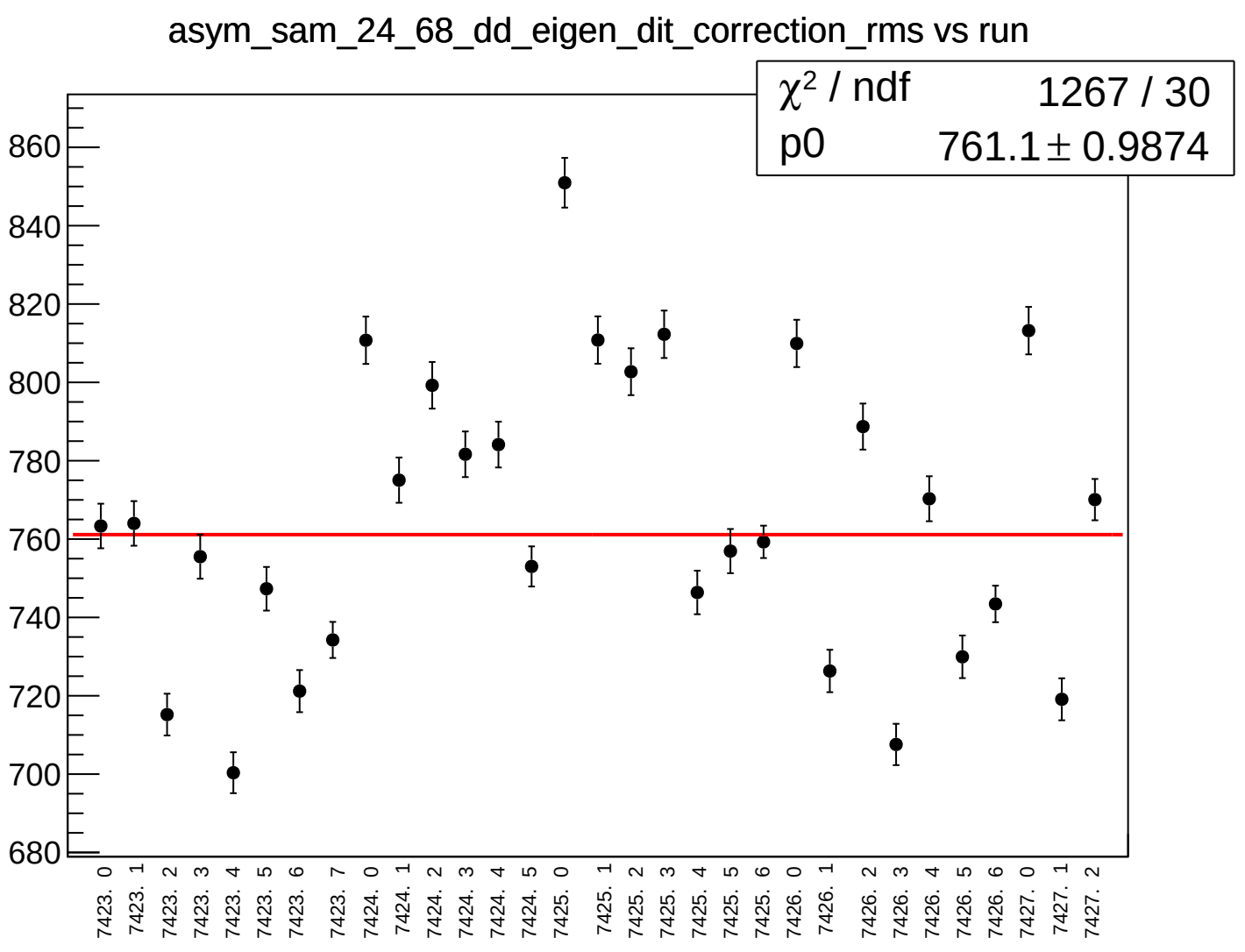

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1267 / 30
p0 761.1 ± 0.9874
860
840
820
800
780
760
740
720
700
680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

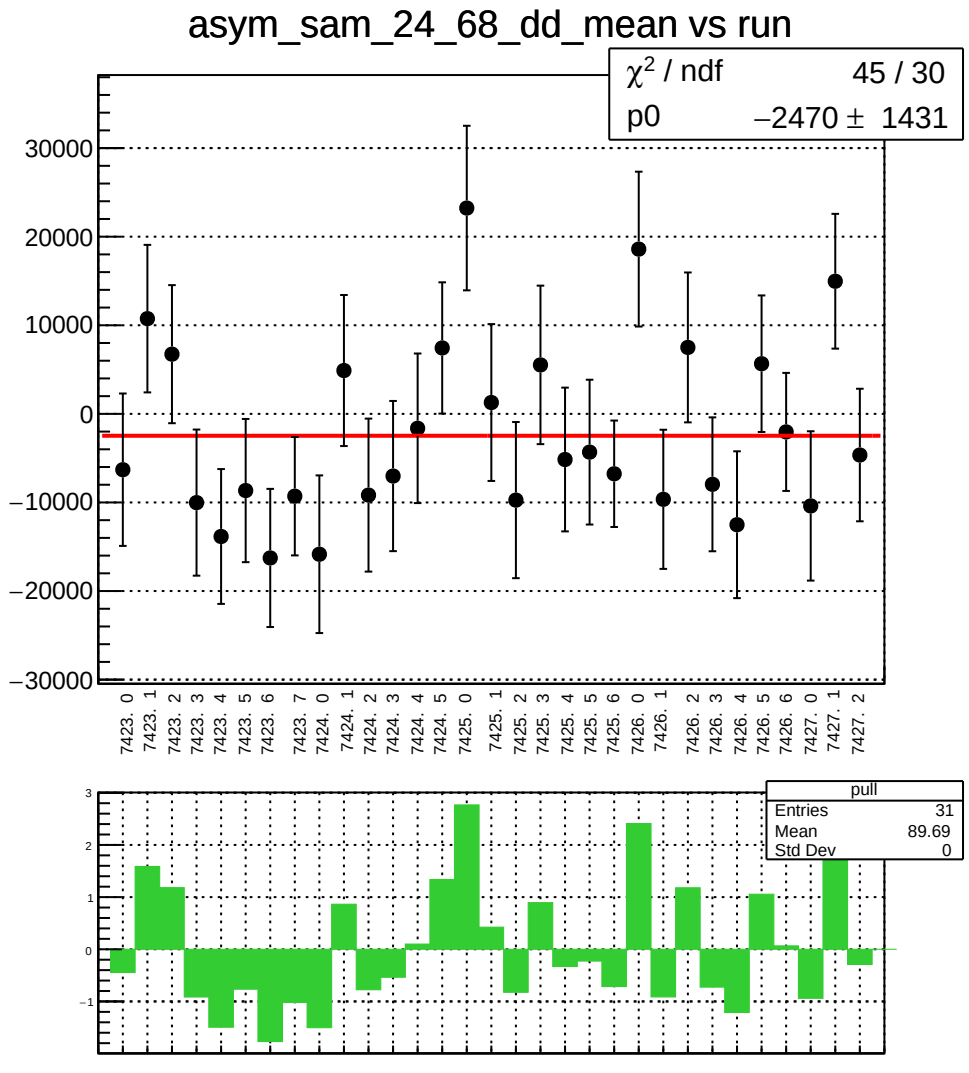

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 18.91 / 30
p0 −223.6 ± 209.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 64.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.02417
Std Dev 0.7806
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

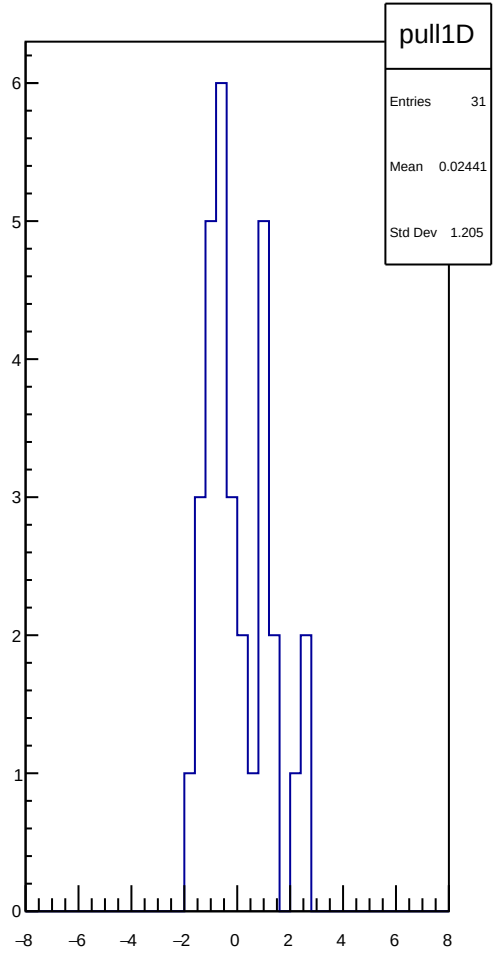

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3268 / 30
p0 114.1 ± 0.1482
145
140
135
130
125
120
115
110
105
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

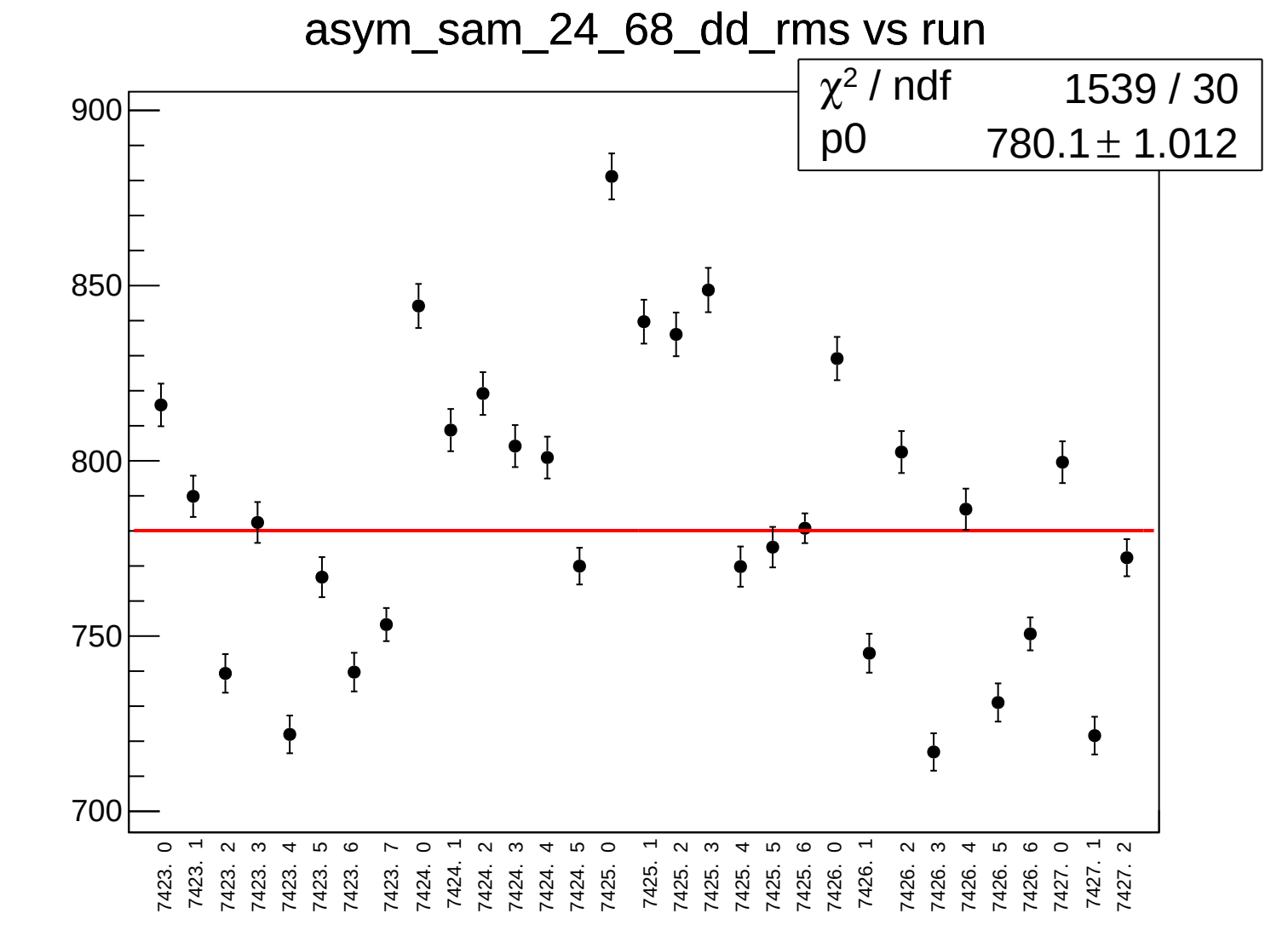

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 48.75 / 30
p0 2209 ± 1396
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 91.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

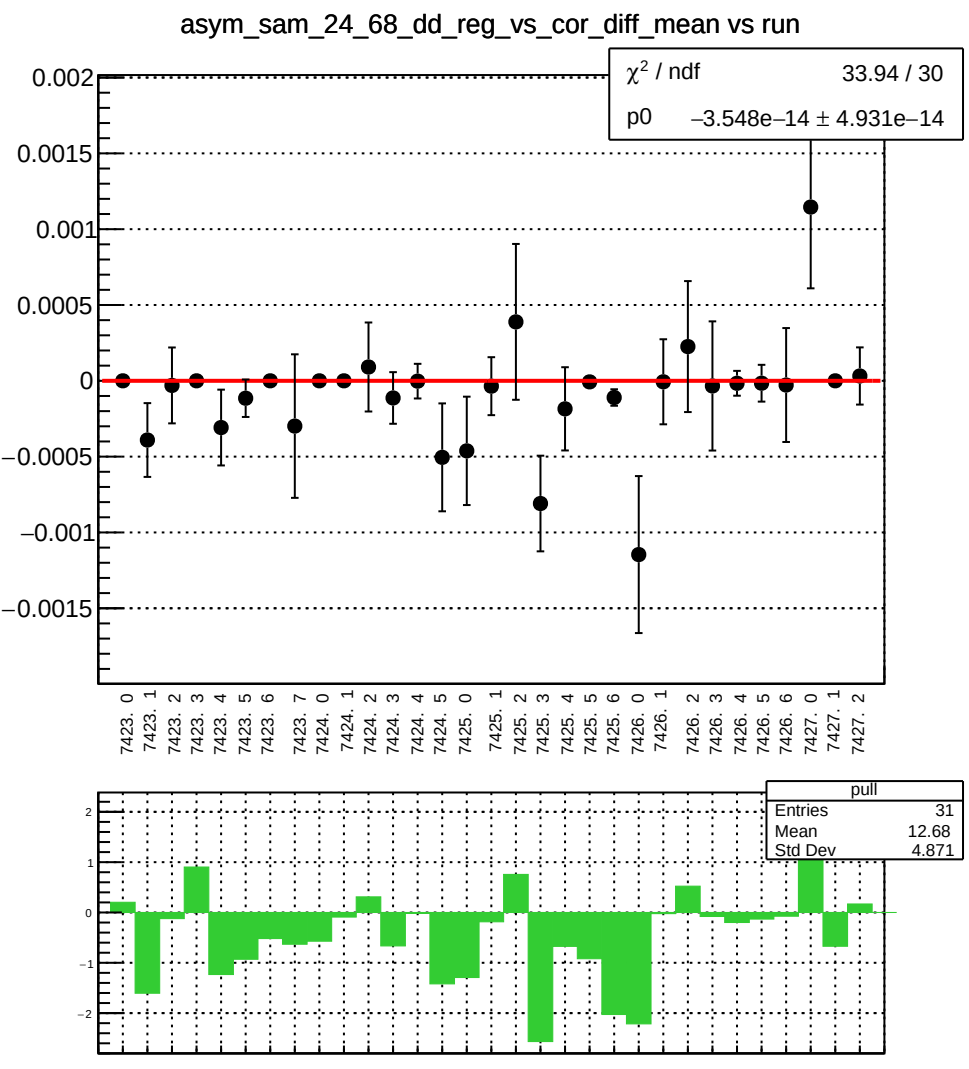

pull1D
Entries 31
Mean −0.02667
Std Dev 1.254
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

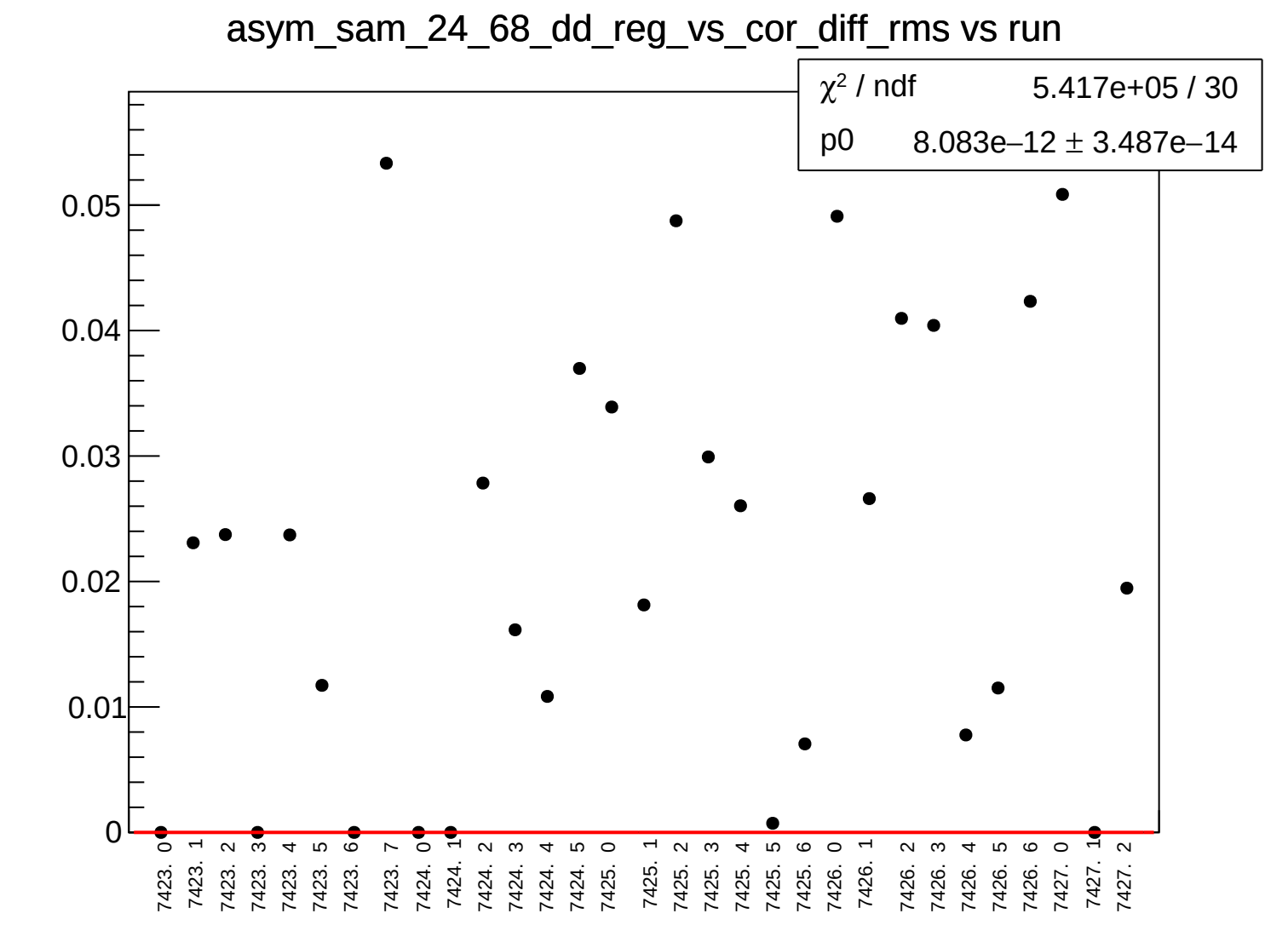

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1267 / 30
p0 761.1 ± 0.9874
860
840
820
800
780
760
740
720
700
680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

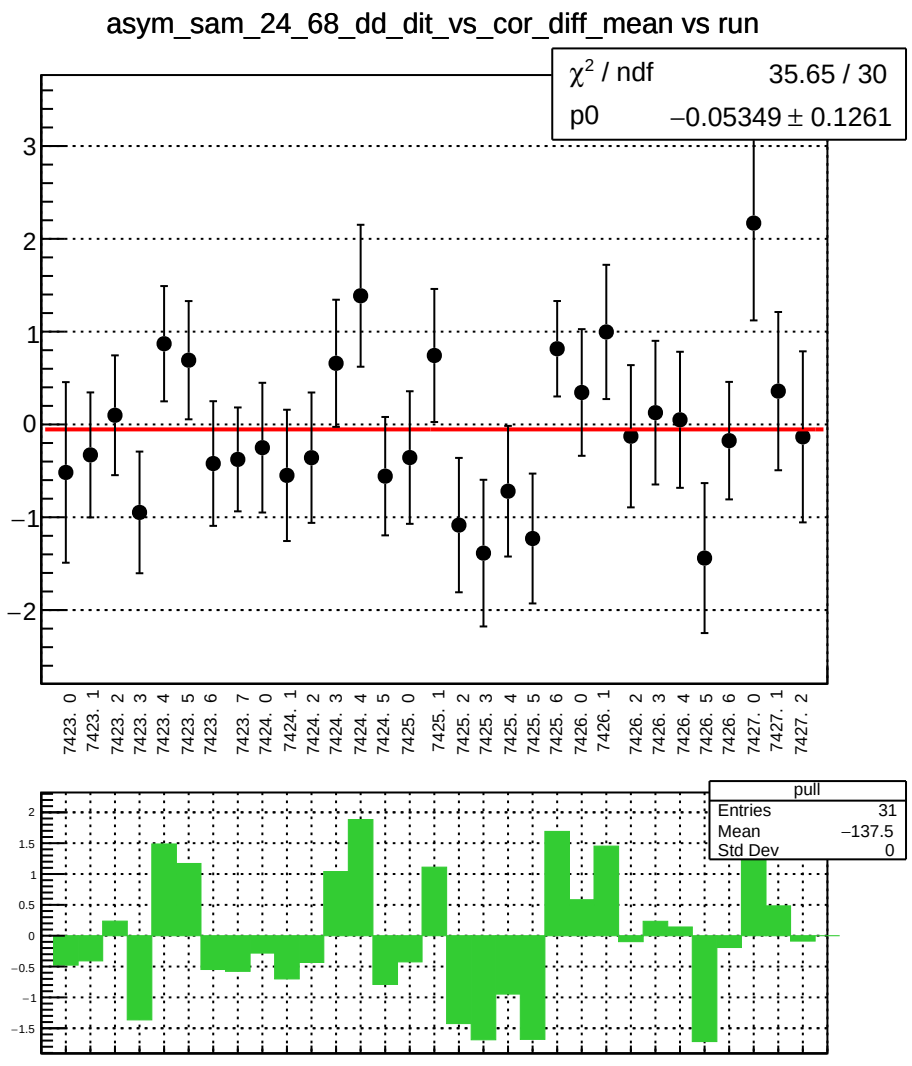

asym_sam_24_68_dd_mean vs run
χ² / ndf 45 / 30
p0 −2470 ± 1431
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 89.69
Std Dev 0
3
2
1
0
−1

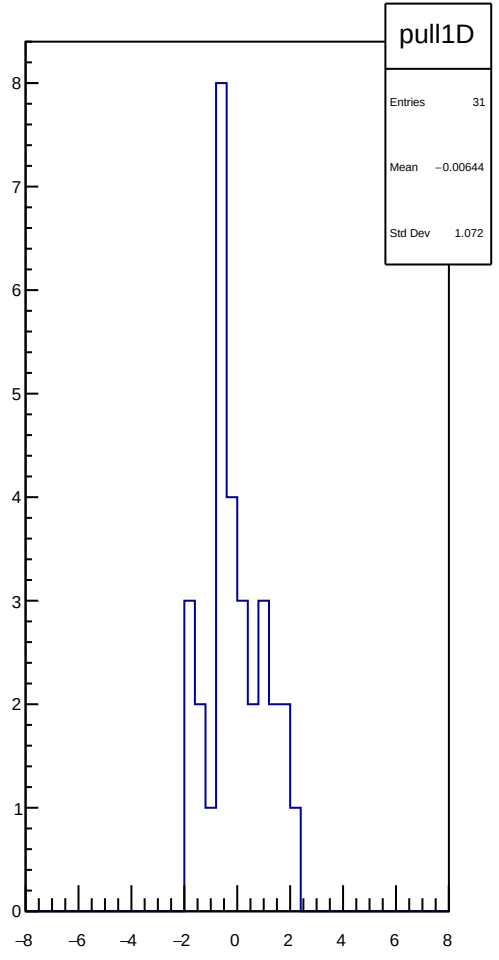

pull1D
Entries 31
Mean 0.02441
Std Dev 1.205
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

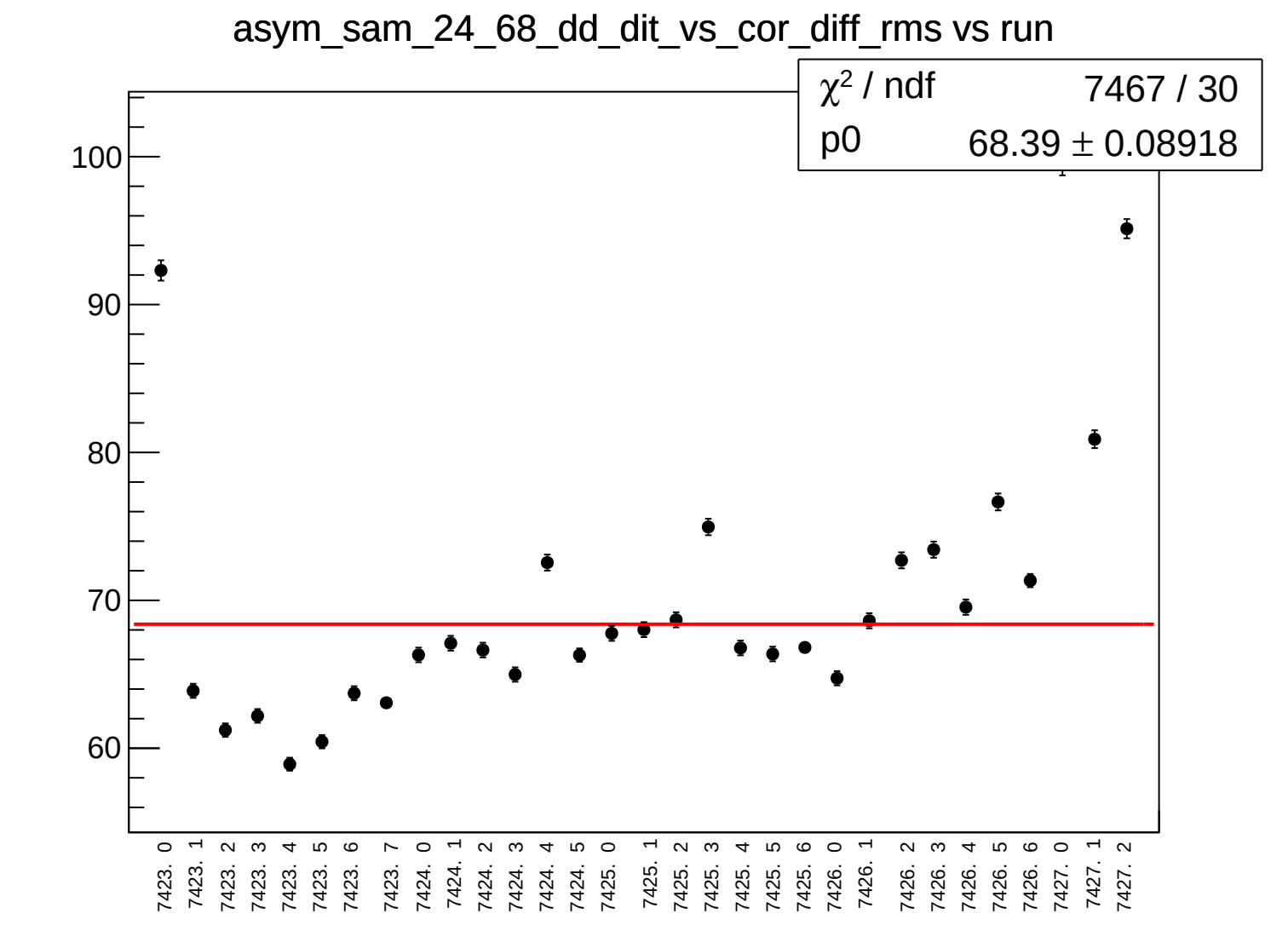

asym_sam_24_68_dd_rms vs run
χ² / ndf 1539 / 30
p0 780.1 ± 1.012
900
850
800
750
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

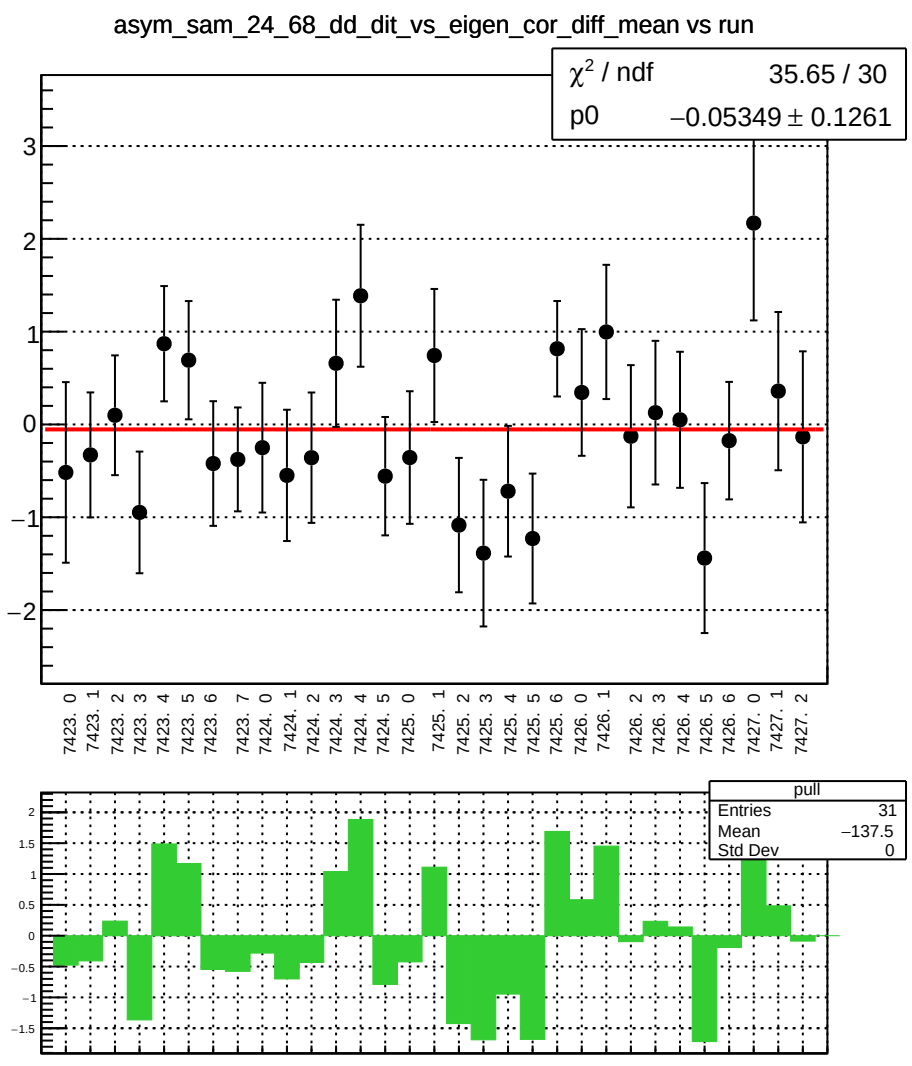

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 33.94 / 30
p0 −3.548e−14 ± 4.931e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 12.68
Std Dev 4.871
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.4469
Std Dev 0.9461
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

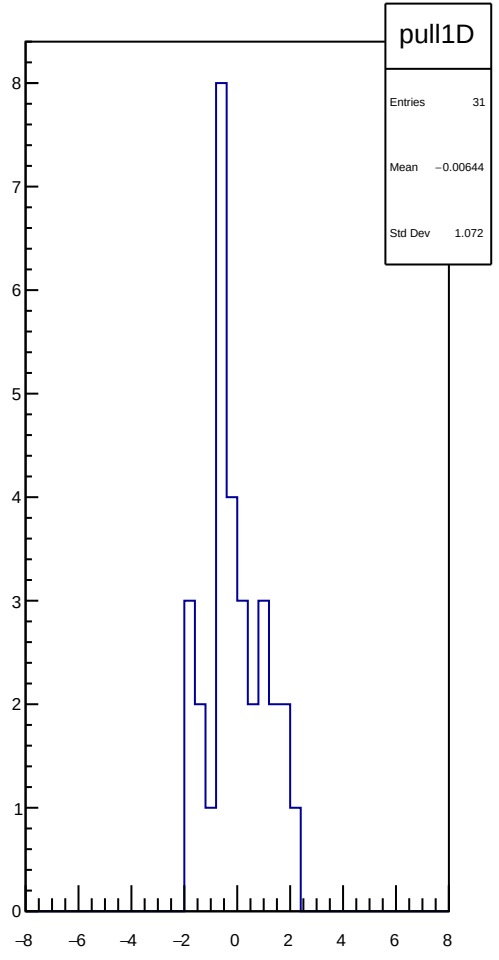

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.417e+05 / 30
p0 8.083e−12 ± 3.487e−14
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

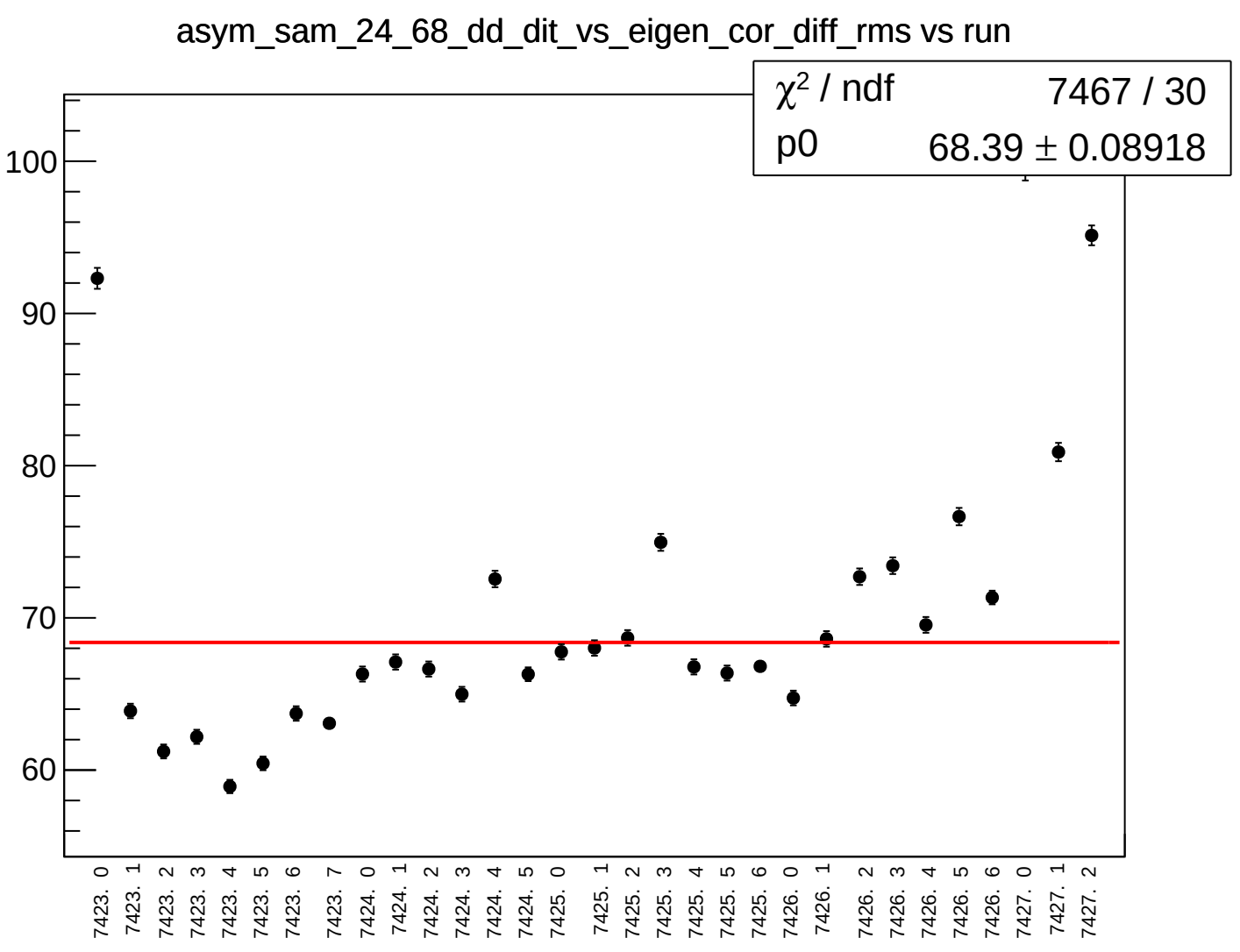

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.65 / 30
p0 −0.05349 ± 0.1261
3
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −137.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

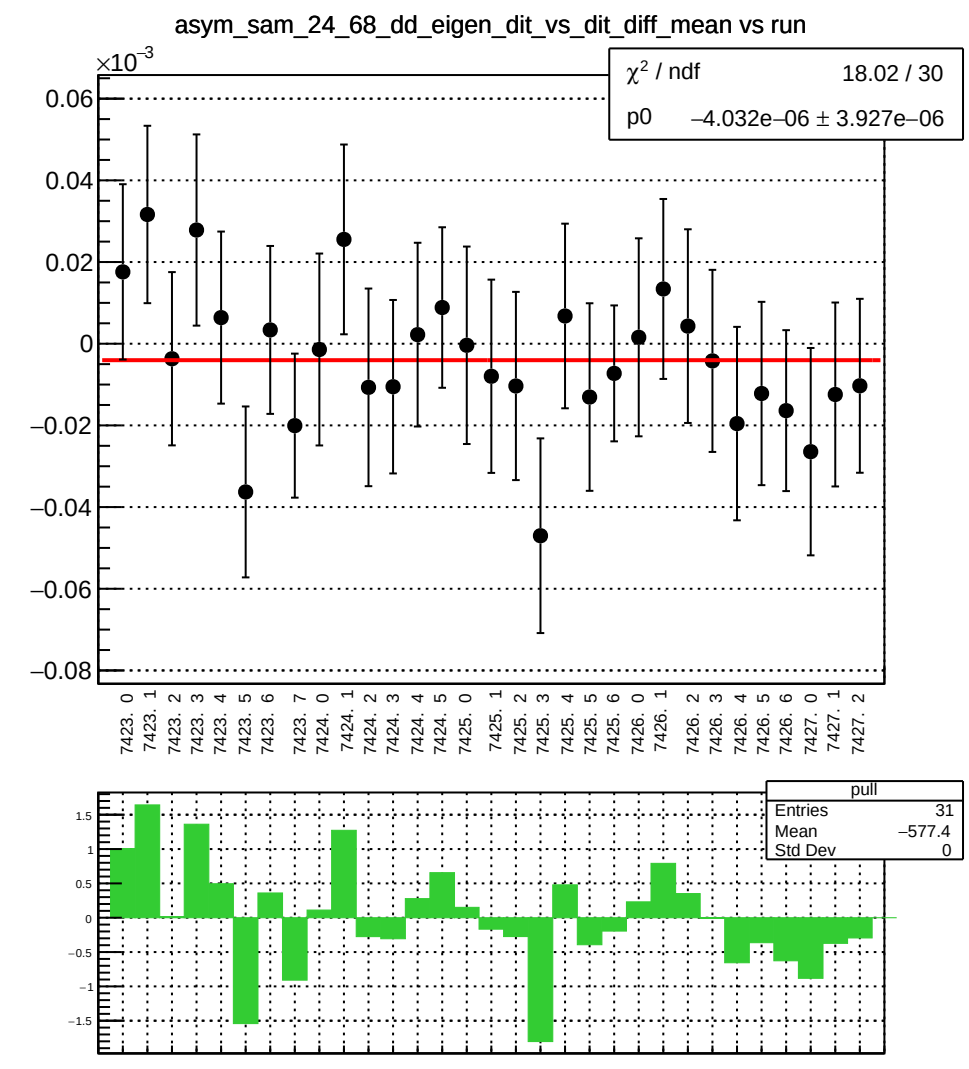

pull1D
Entries 31
Mean −0.00644
Std Dev 1.072
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

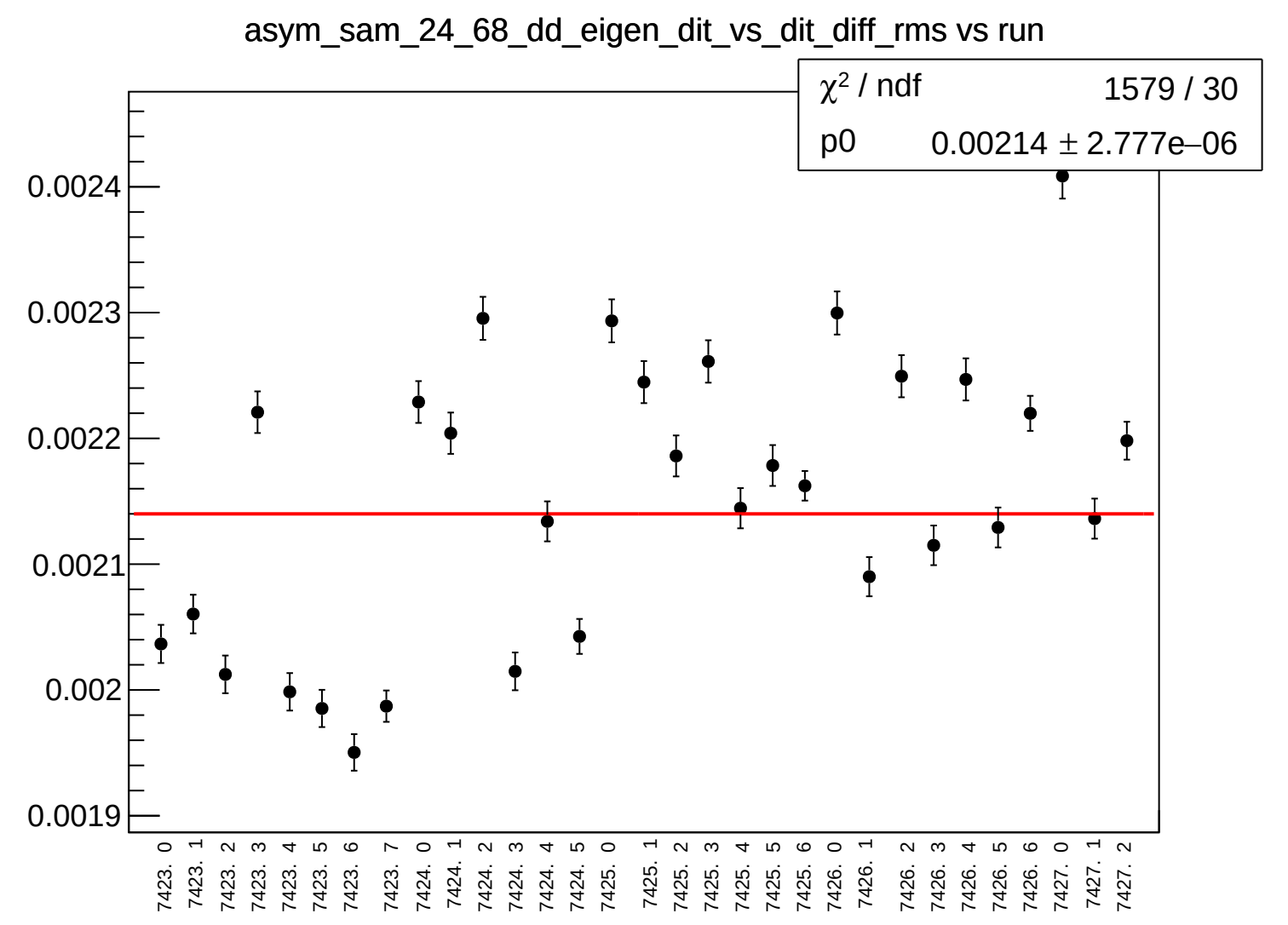

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7467 / 30
p0 68.39 ± 0.08918
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

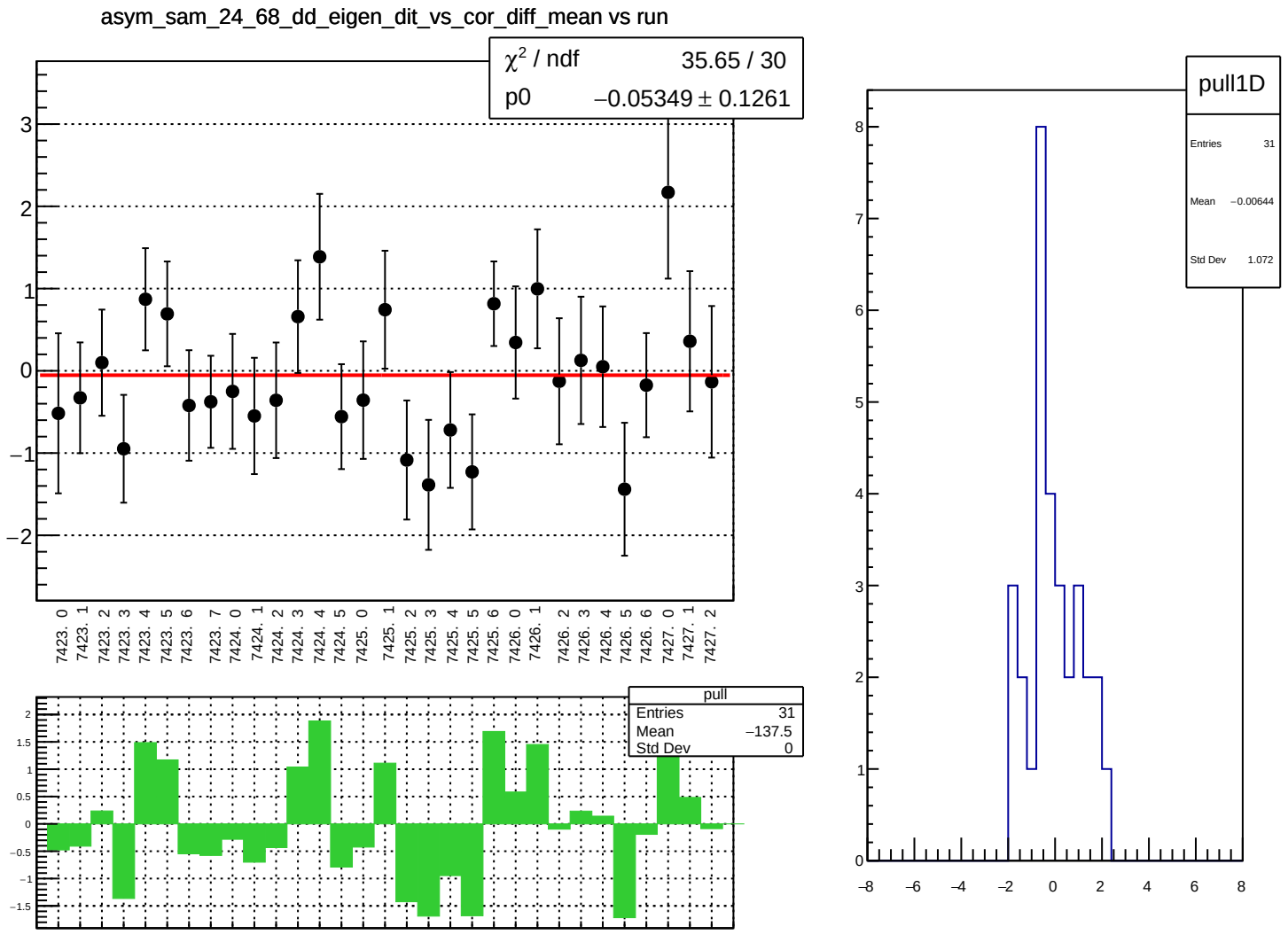

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.65 / 30
p0 −0.05349 ± 0.1261
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −137.5
Std Dev 0

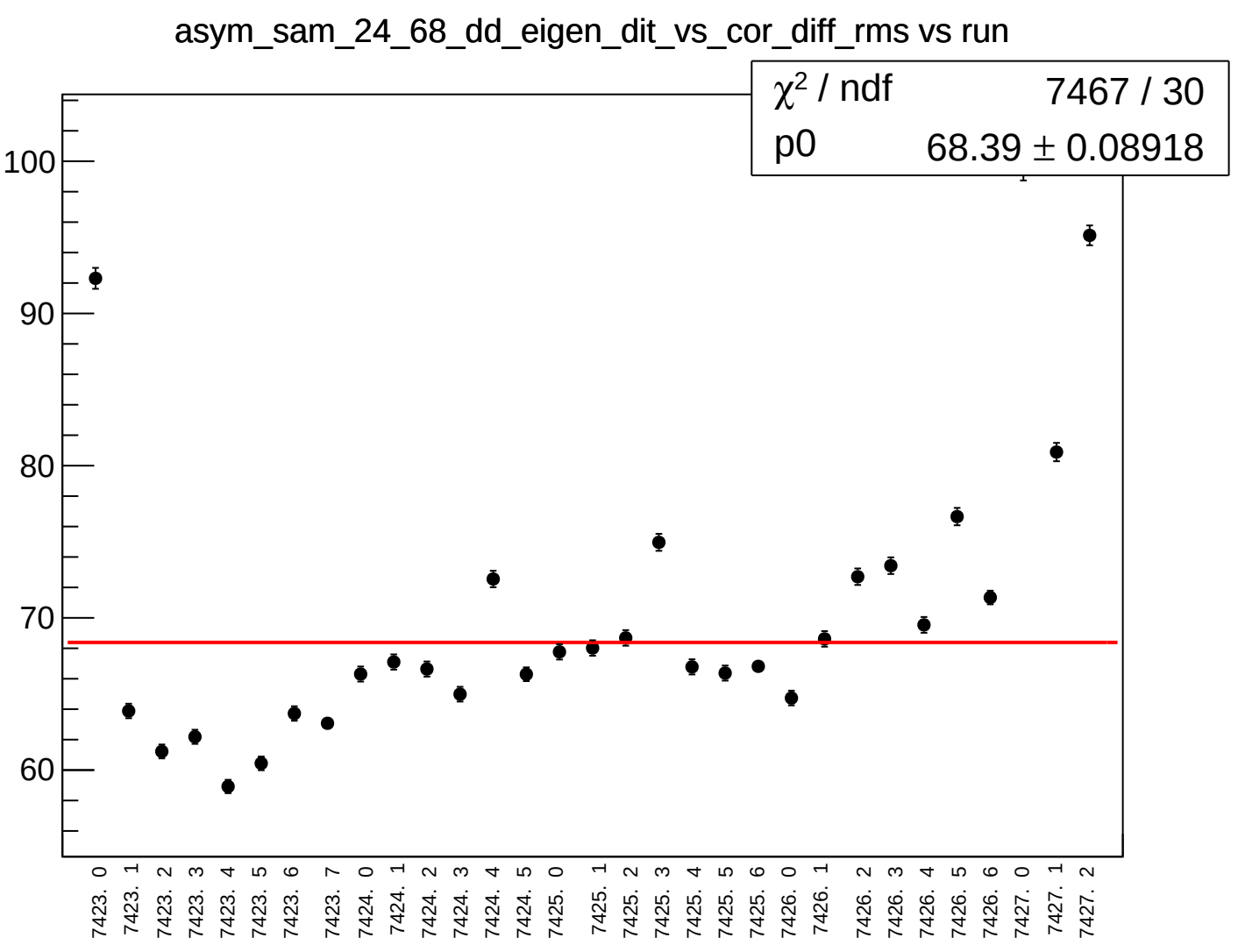

pull1D
Entries 31
Mean −0.00644
Std Dev 1.072


asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7467 / 30
p0 68.39 ± 0.08918
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

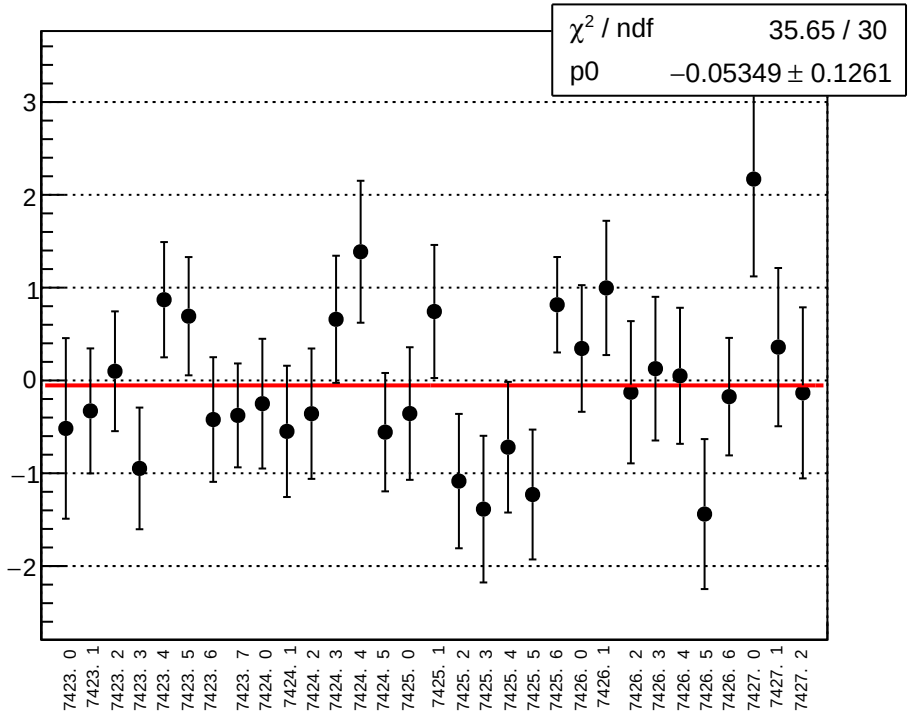

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.02 / 30
p0 −4.032e−06 ± 3.927e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −577.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.004531
Std Dev 0.7623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

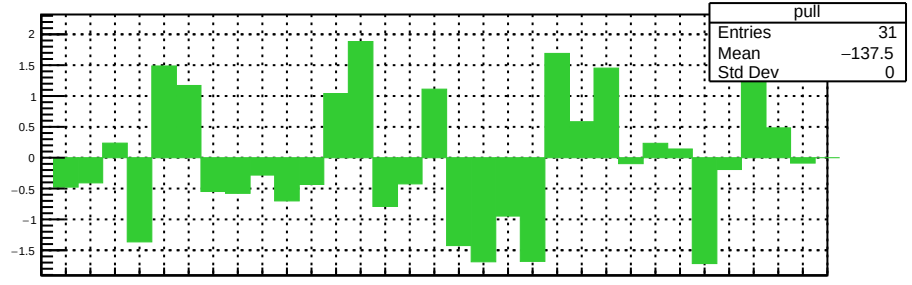

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1579 / 30
p0 0.00214 ± 2.777e–06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

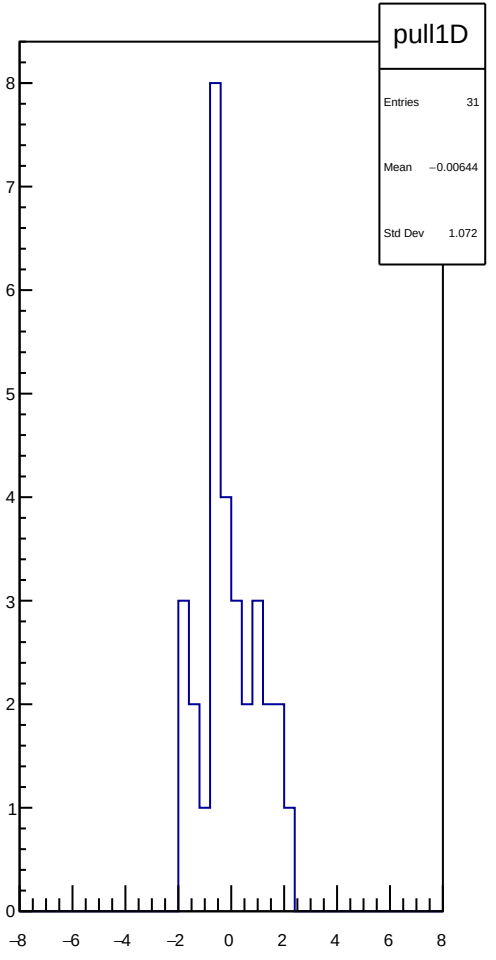

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.65 / 30
p0 −0.05349 ± 0.1261
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −137.5
Std Dev 0
pull1D
Entries 31
Mean −0.00644
Std Dev 1.072

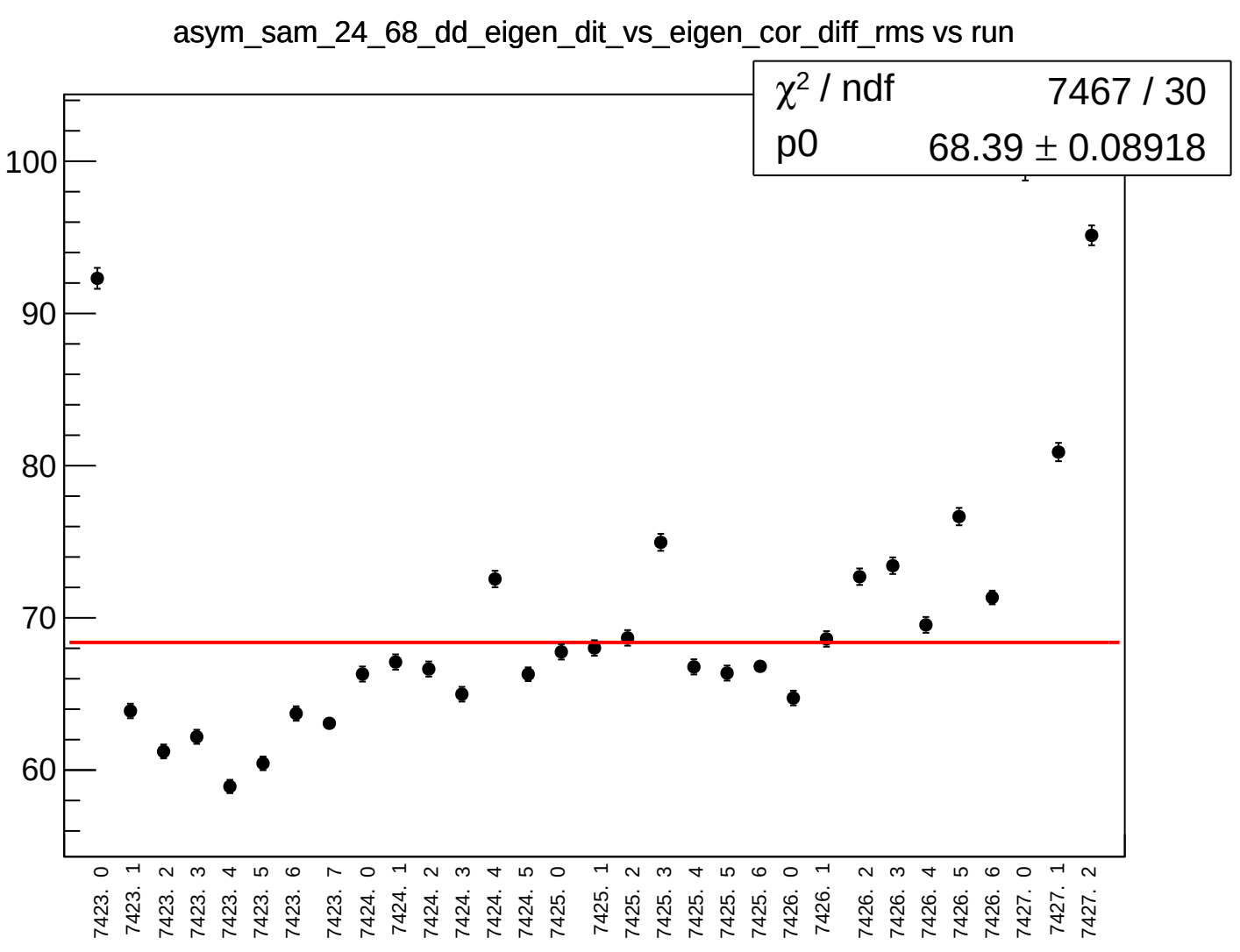

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7467 / 30
p0 68.39 ± 0.08918
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

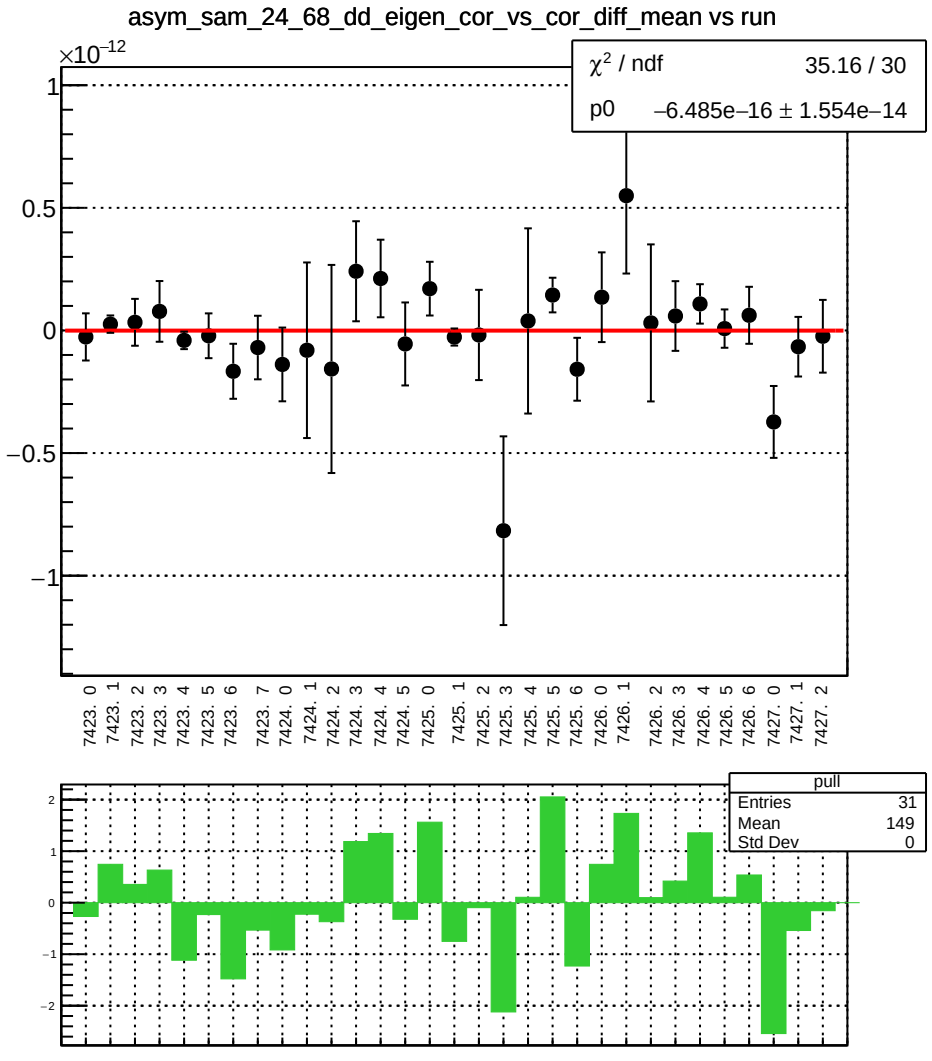
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

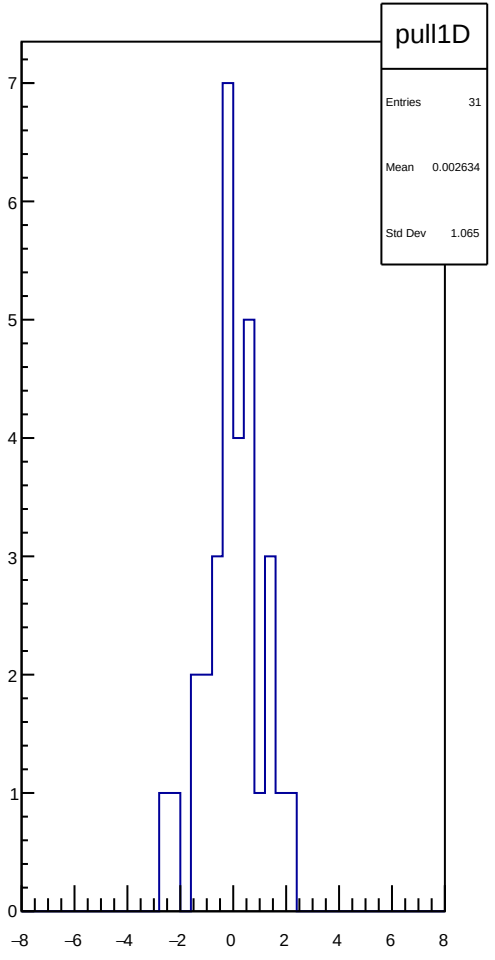


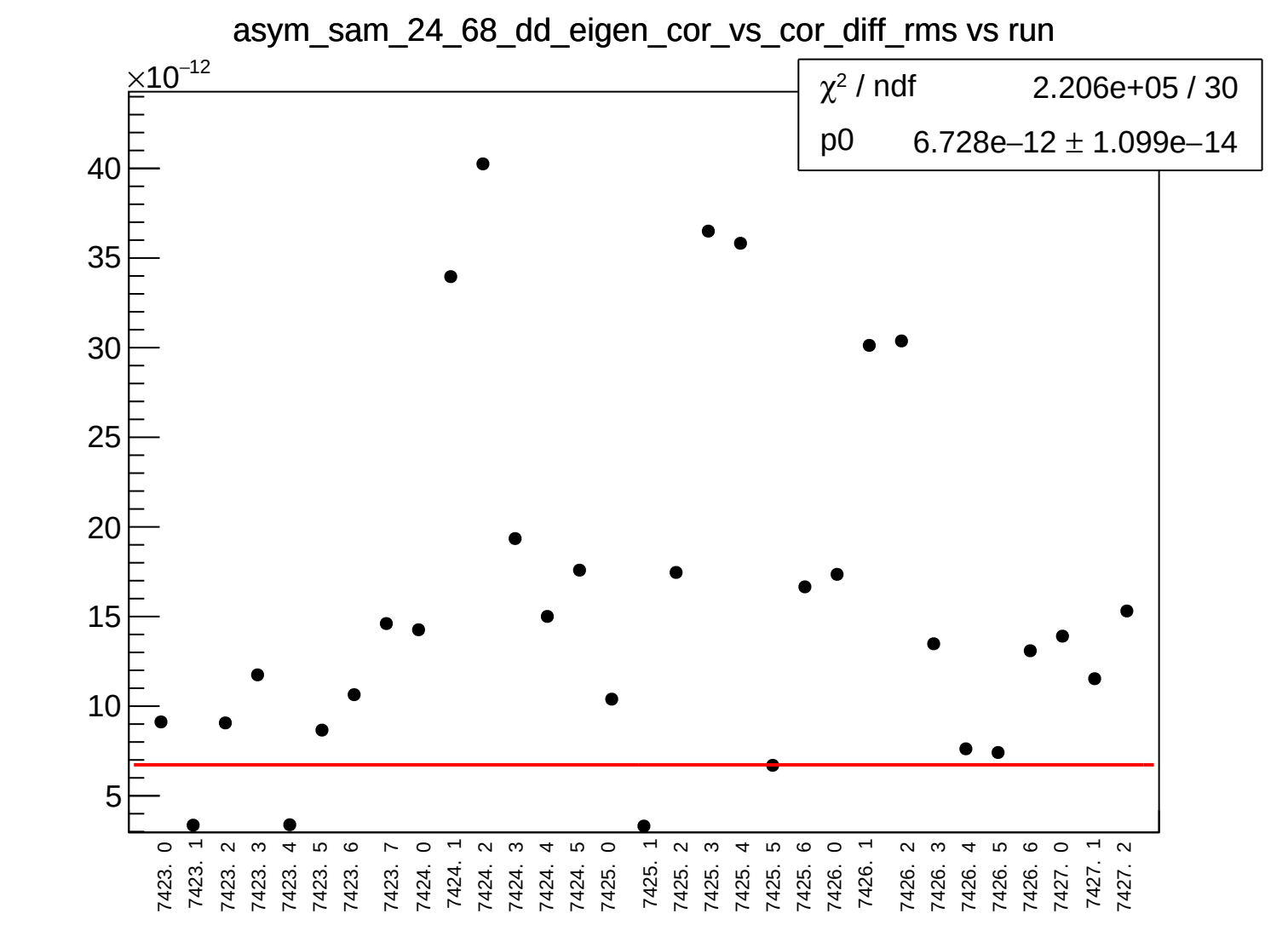


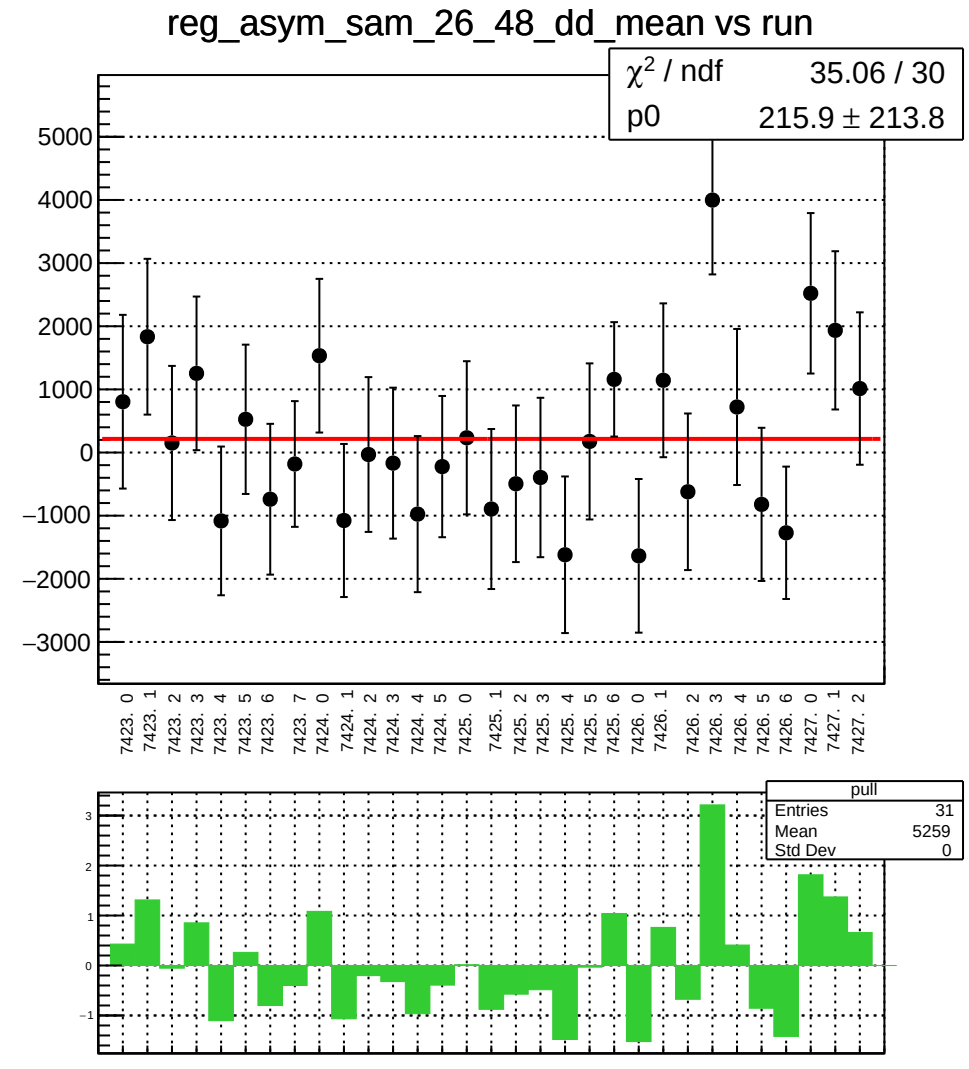


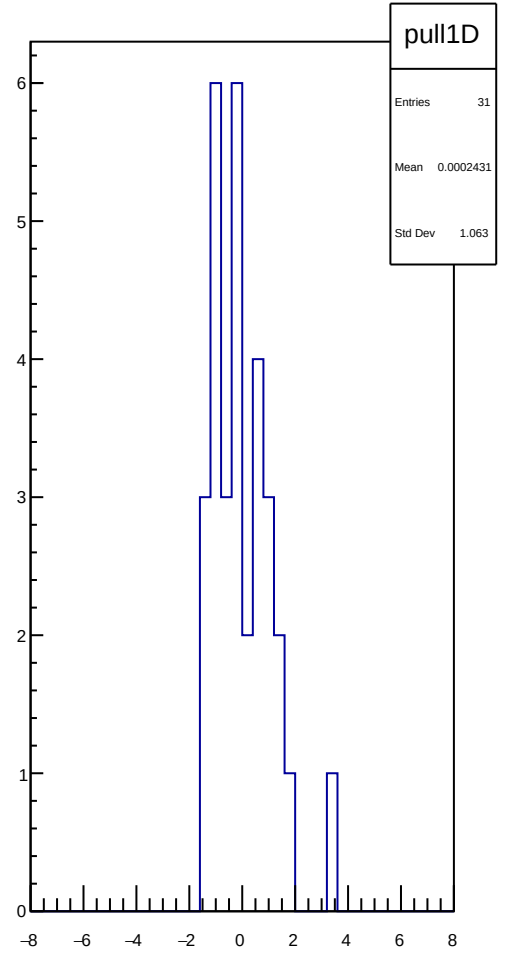

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7467 / 30
p0 68.39 ± 0.08918
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

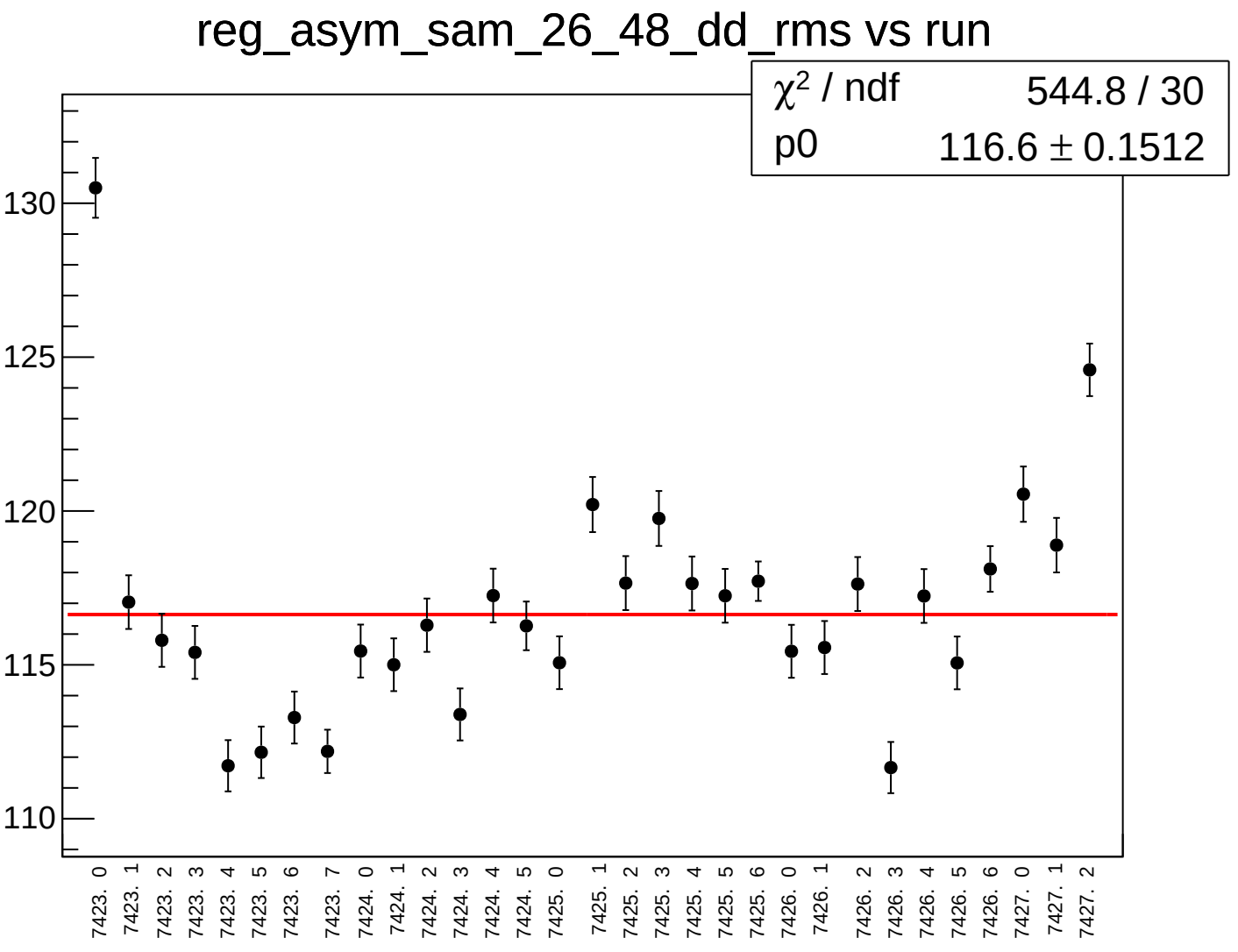

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.16 / 30
p0 −6.485e−16 ± 1.554e−14
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 149
Std Dev 0
2
1
0
−1
−2

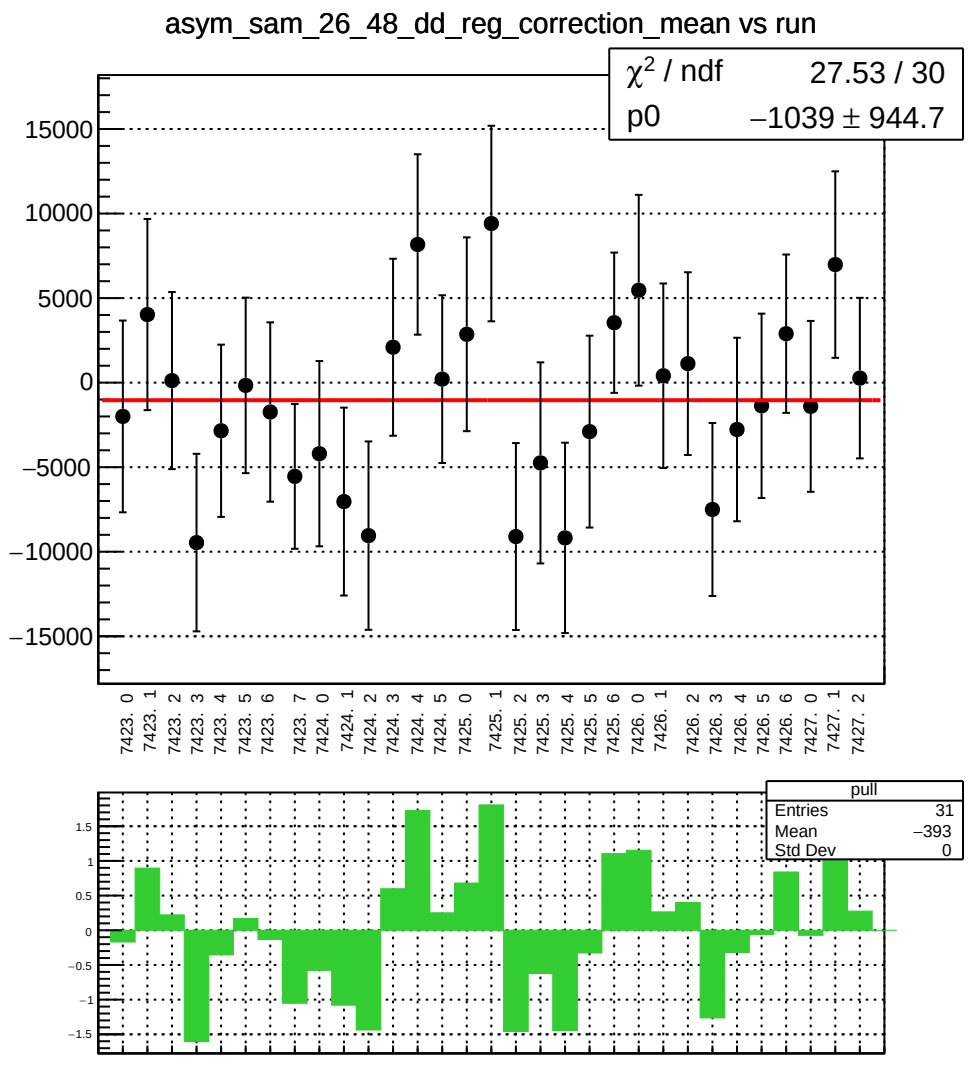

pull1D
Entries 31
Mean 0.002634
Std Dev 1.065
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

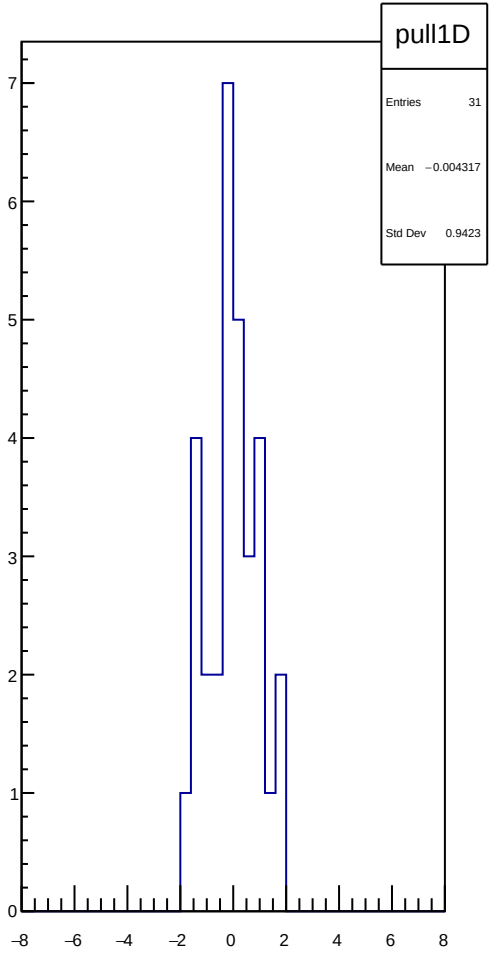

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.206e+05 / 30
p0 6.728e−12 ± 1.099e−14
40
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

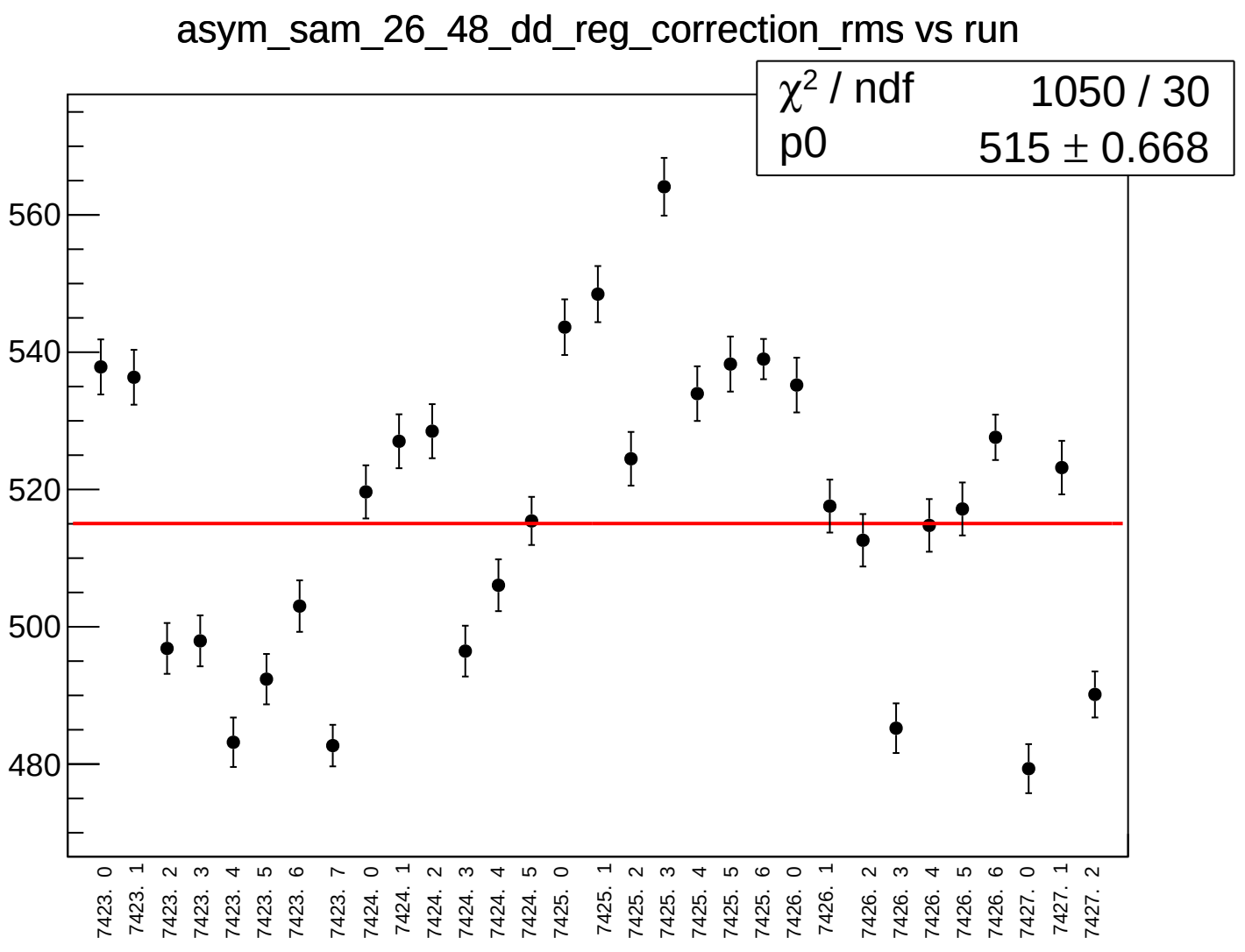

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 35.06 / 30
p0 215.9 ± 213.8
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 5259
Std Dev 0
3
2
1
0
−1

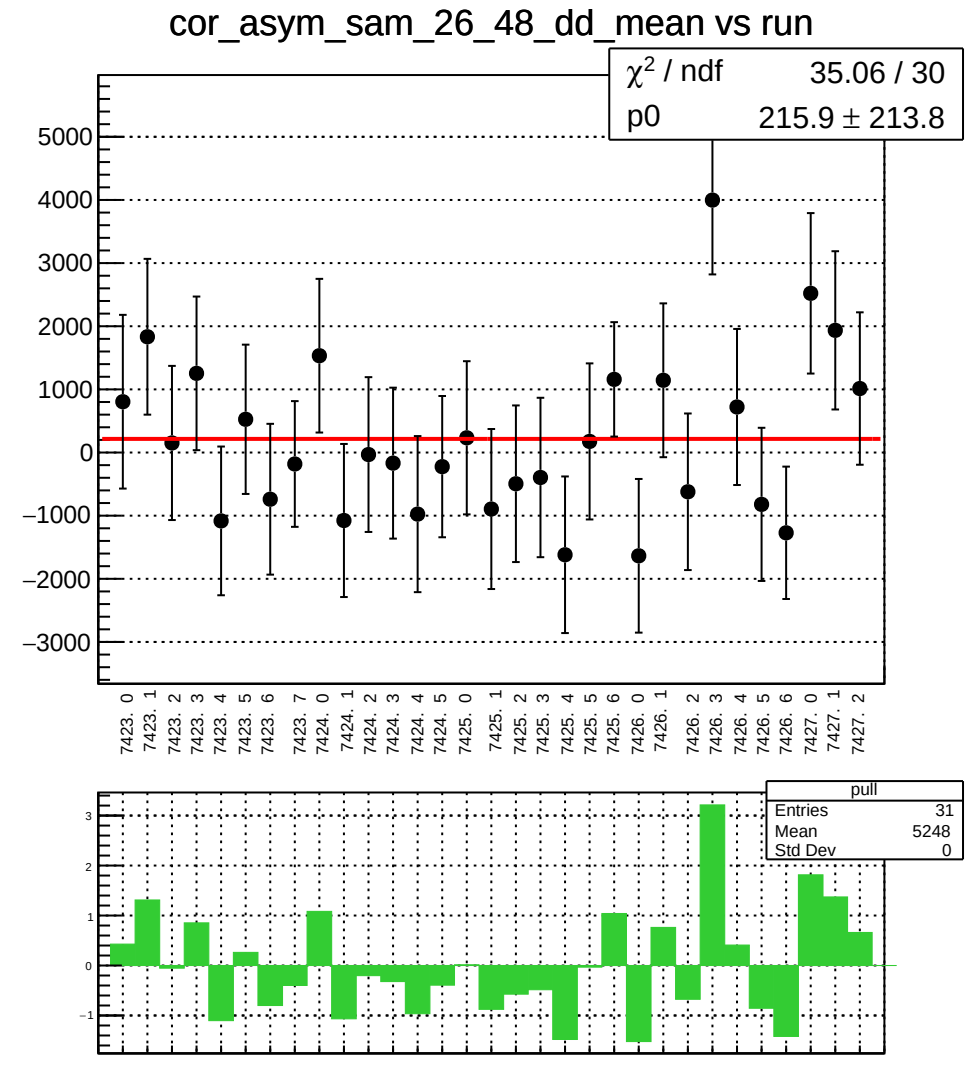

pull1D
Entries 31
Mean 0.0002431
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

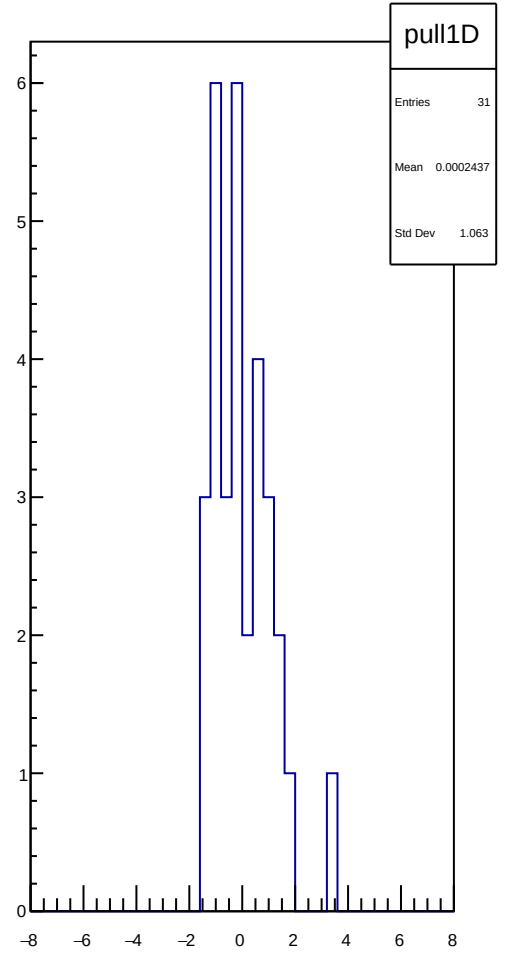

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 544.8 / 30
p0 116.6 ± 0.1512
130
125
120
115
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

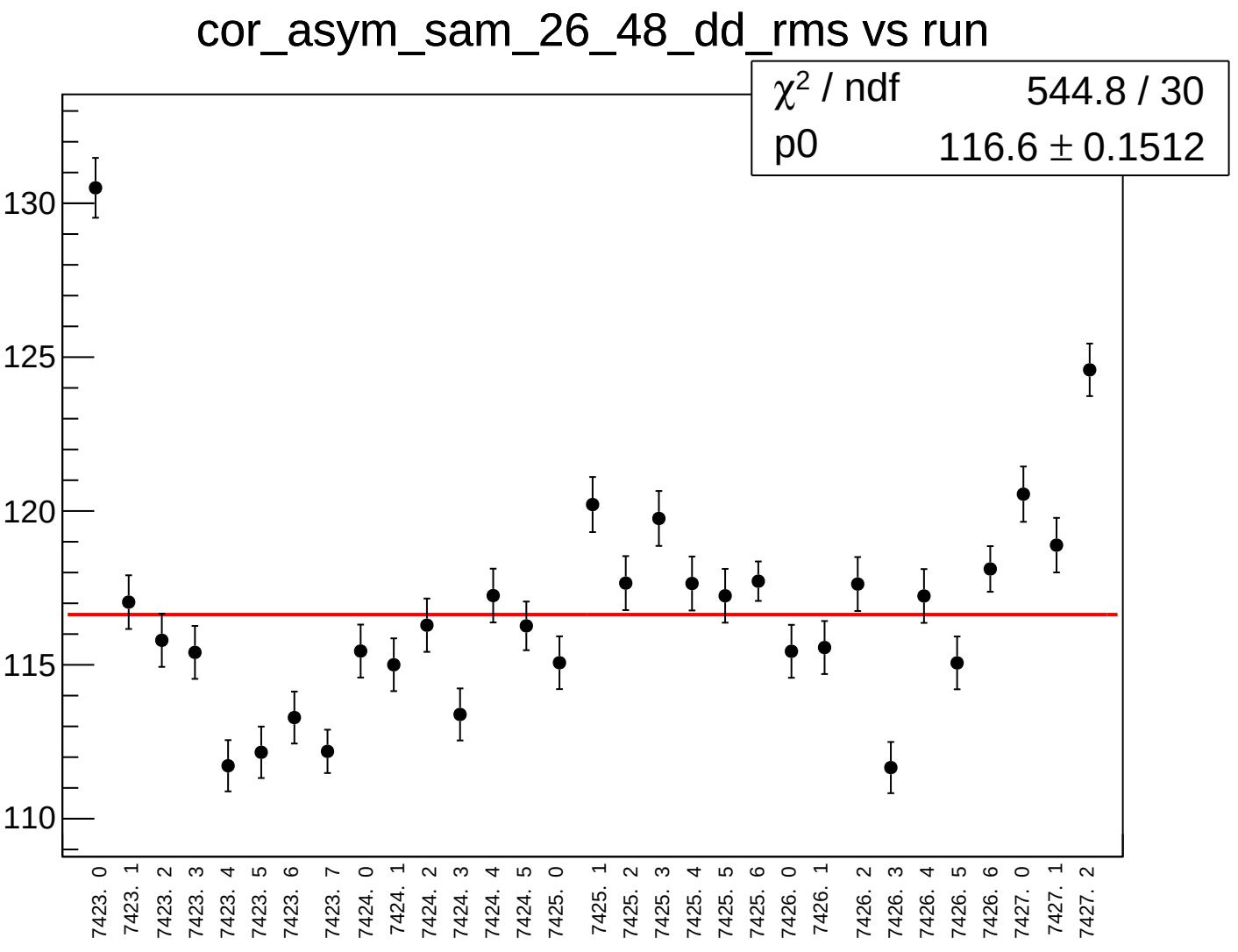

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 27.53 / 30
p0 −1039 ± 944.7
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −393
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

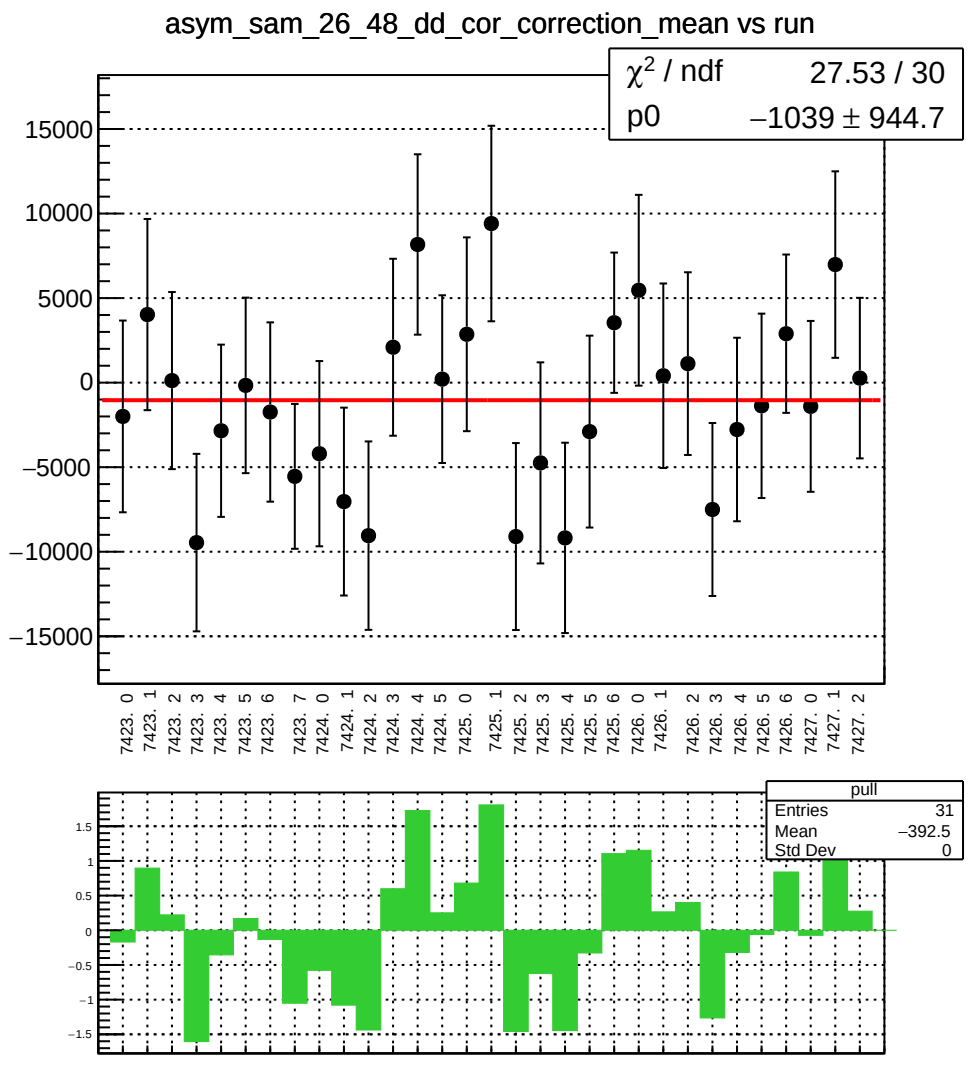

pull1D
Entries 31
Mean −0.004317
Std Dev 0.9423
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

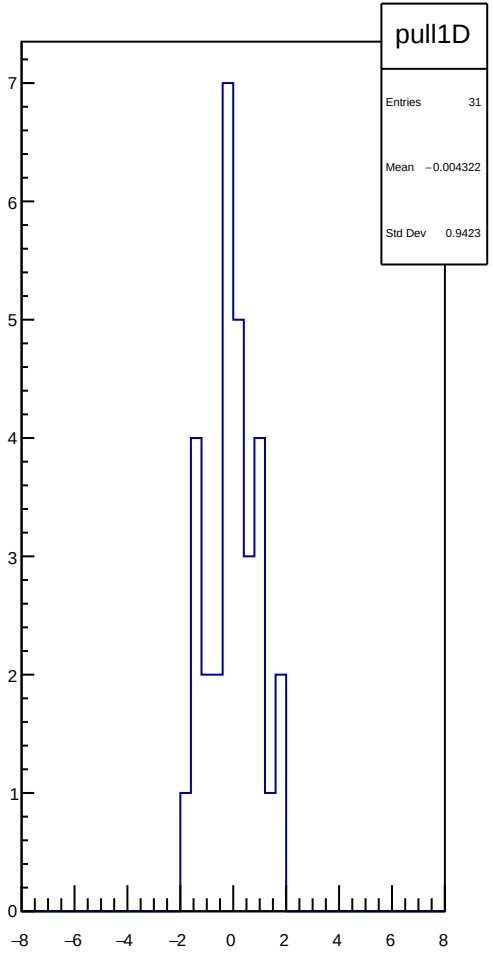

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1050 / 30
p0 515 ± 0.668
560
540
520
500
480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

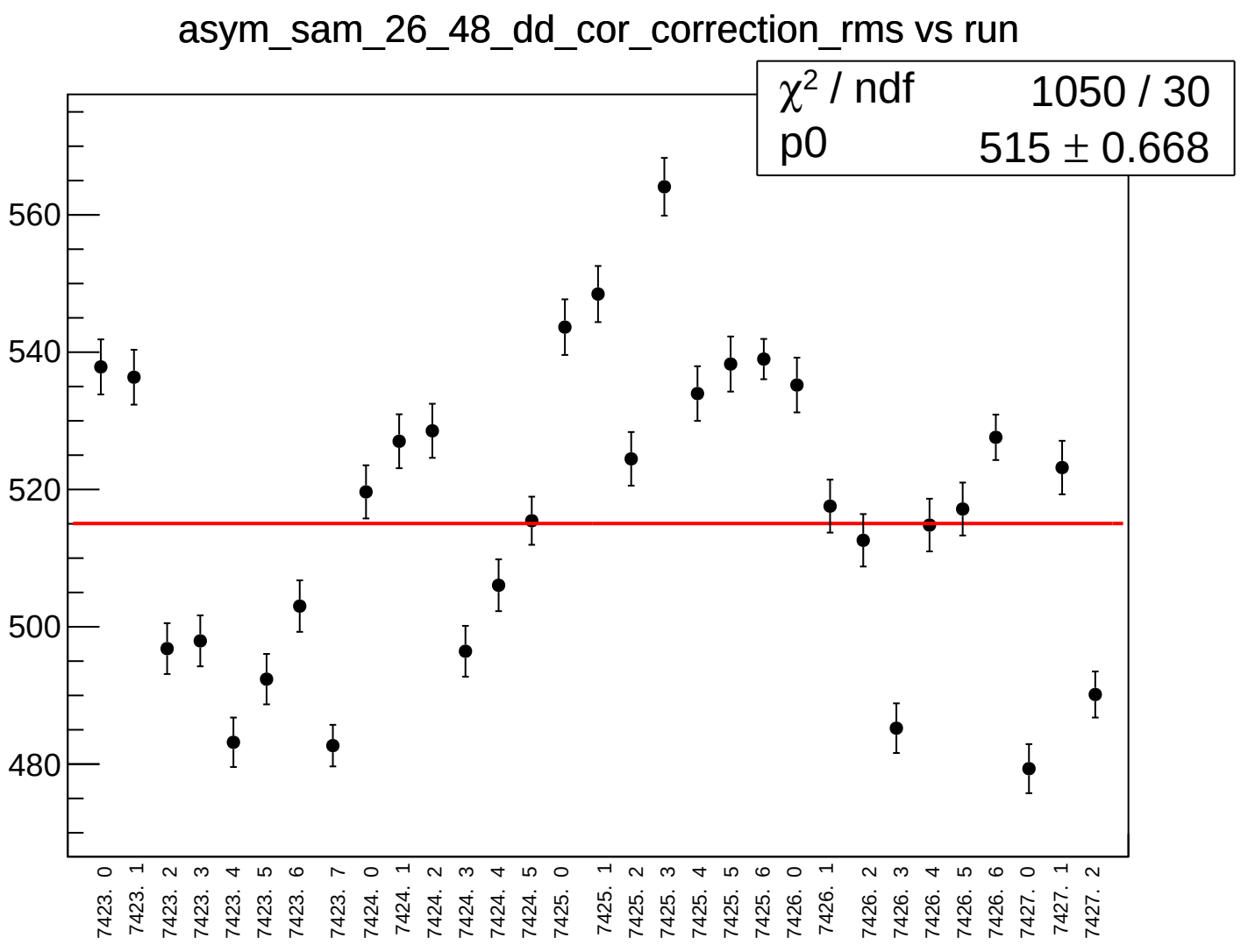

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 35.06 / 30
p0 215.9 ± 213.8
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 5248
Std Dev 0
3
2
1
0
−1

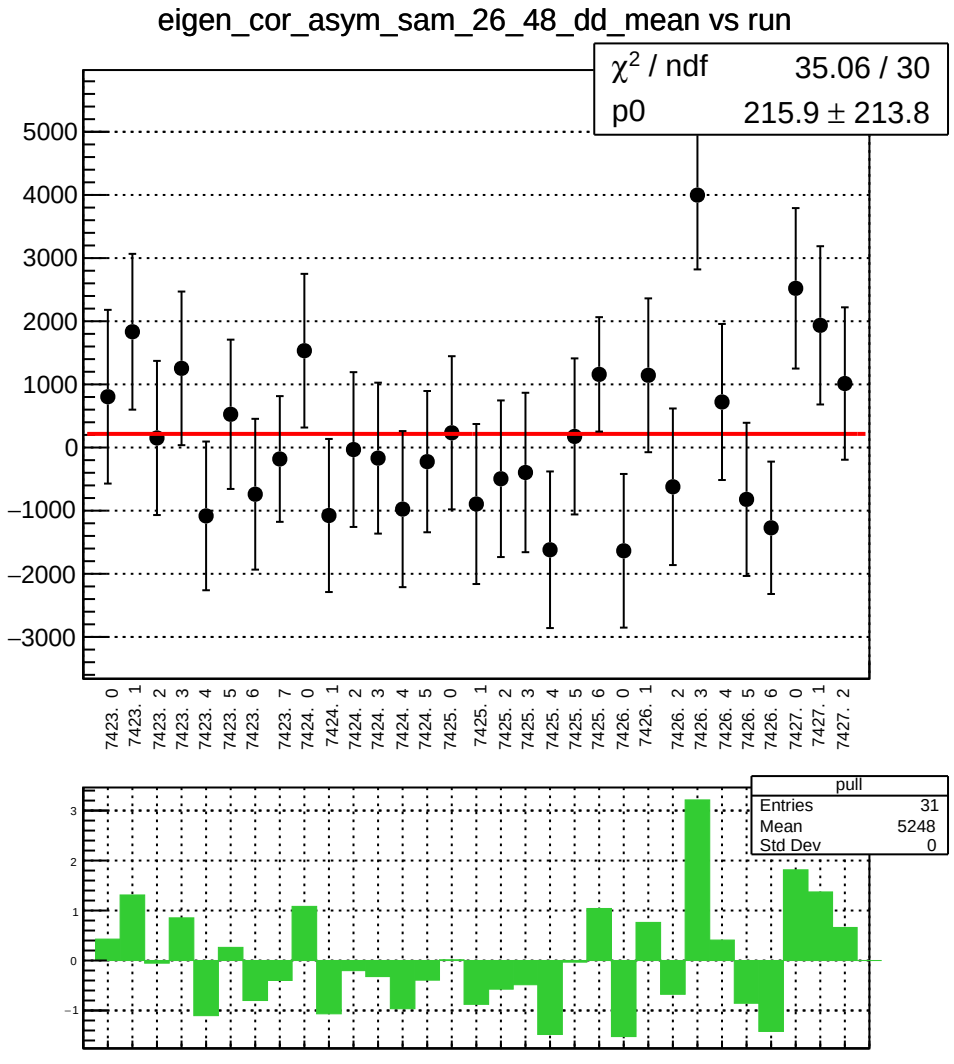

pull1D
Entries 31
Mean 0.0002437
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

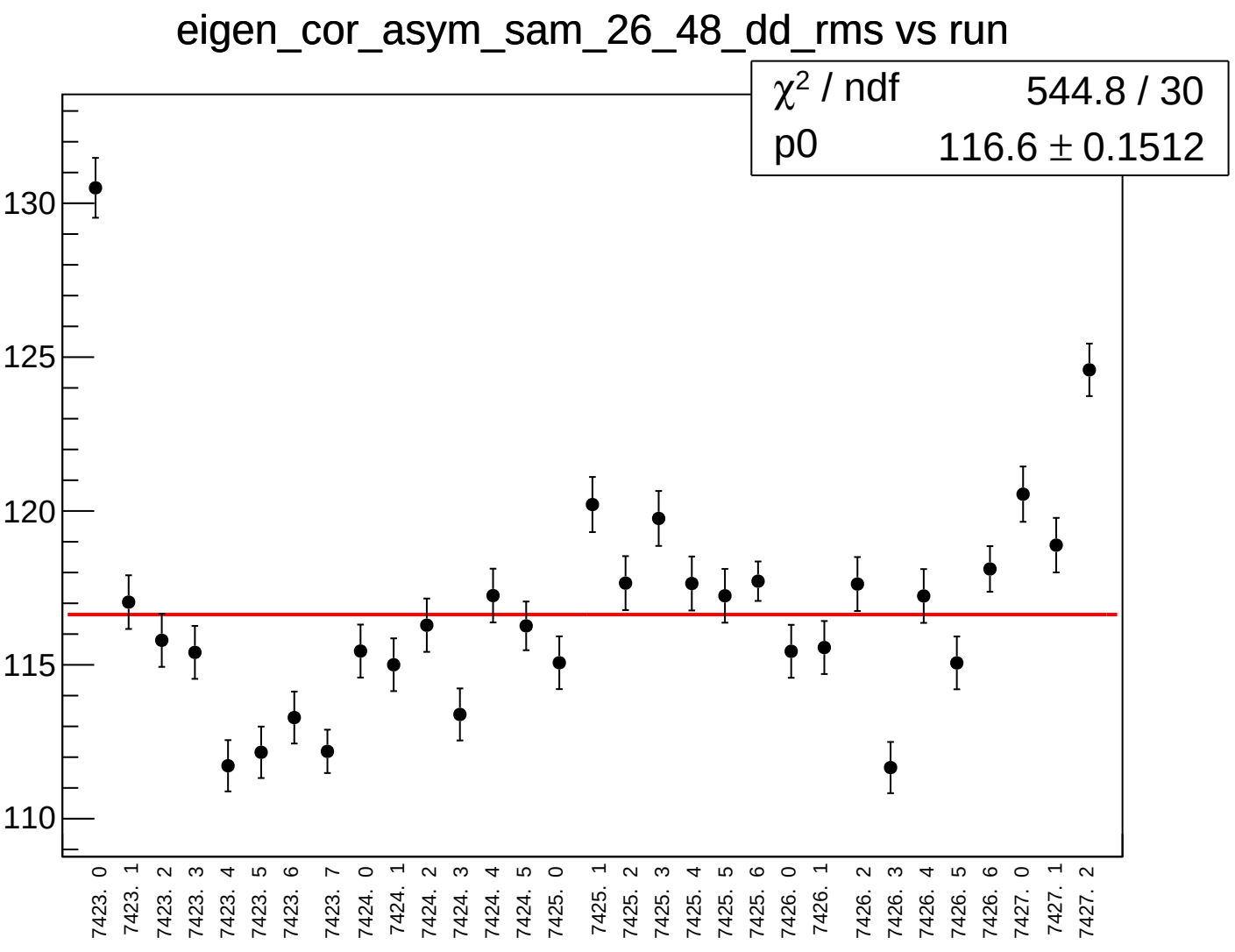

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 544.8 / 30
p0 116.6 ± 0.1512
130
125
120
115
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

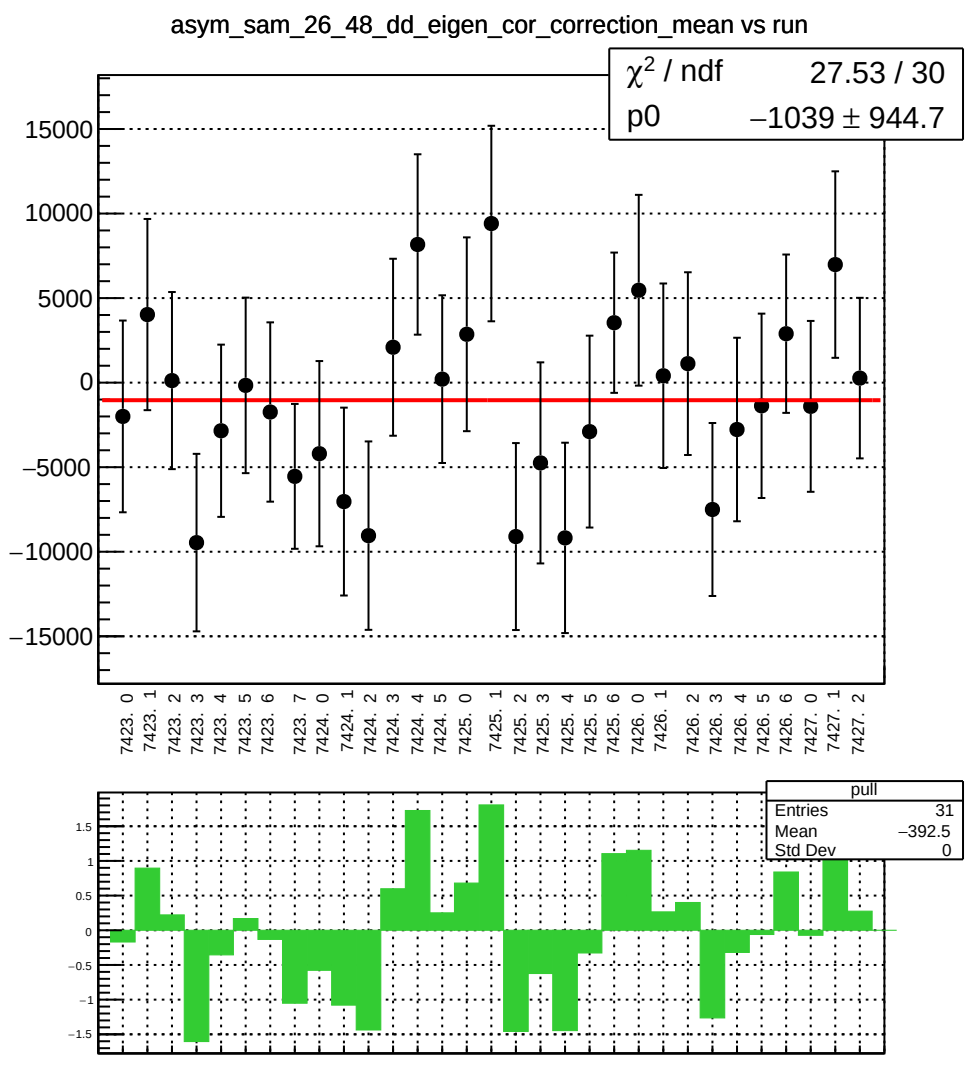

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 27.53 / 30
p0 −1039 ± 944.7
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −392.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

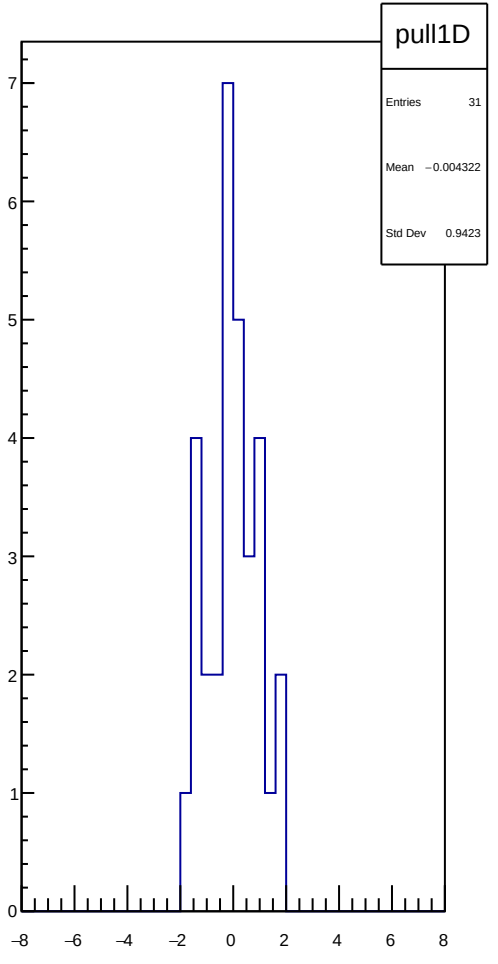

pull1D
Entries 31
Mean −0.004322
Std Dev 0.9423
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

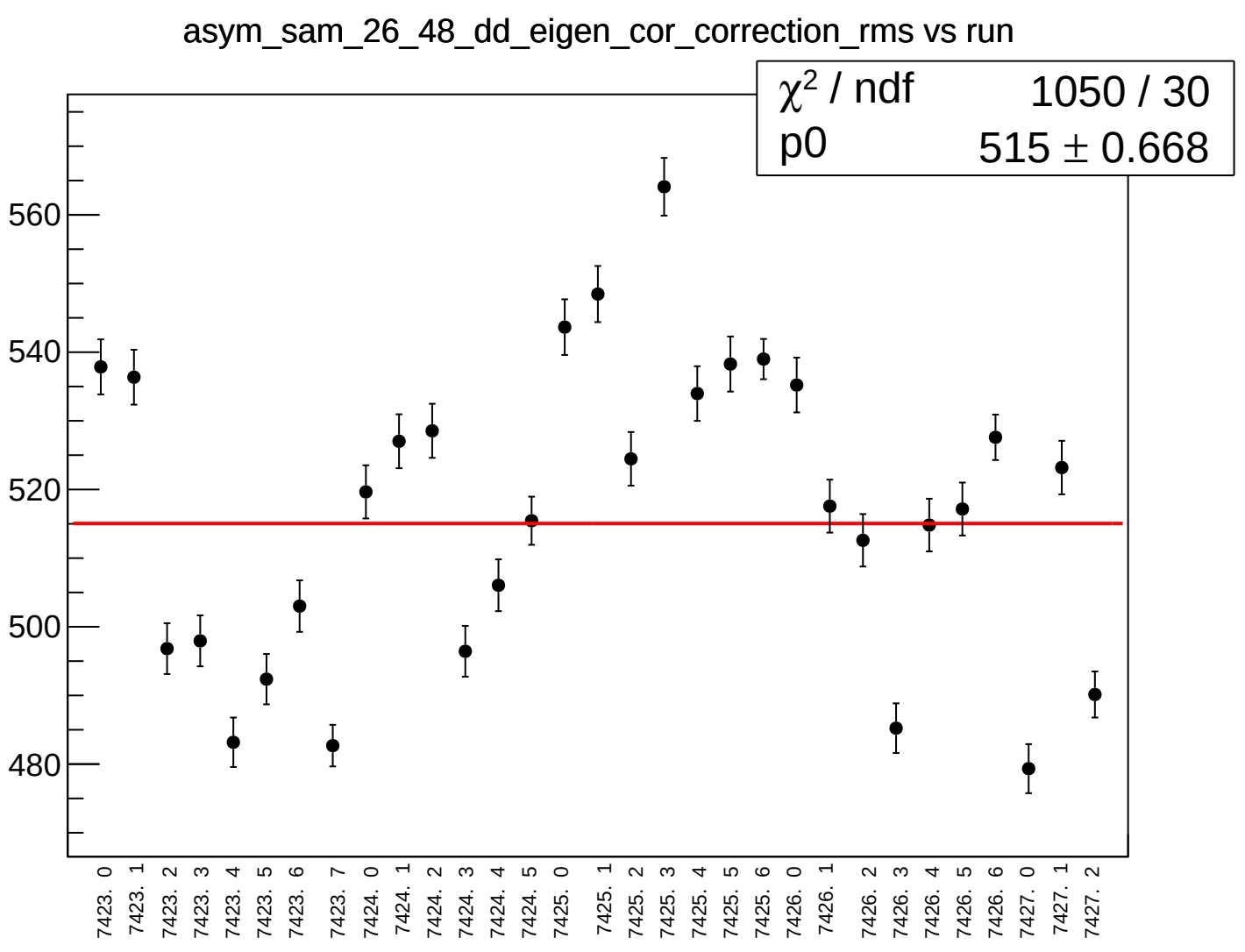

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1050 / 30
p0 515 ± 0.668
560
540
520
500
480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

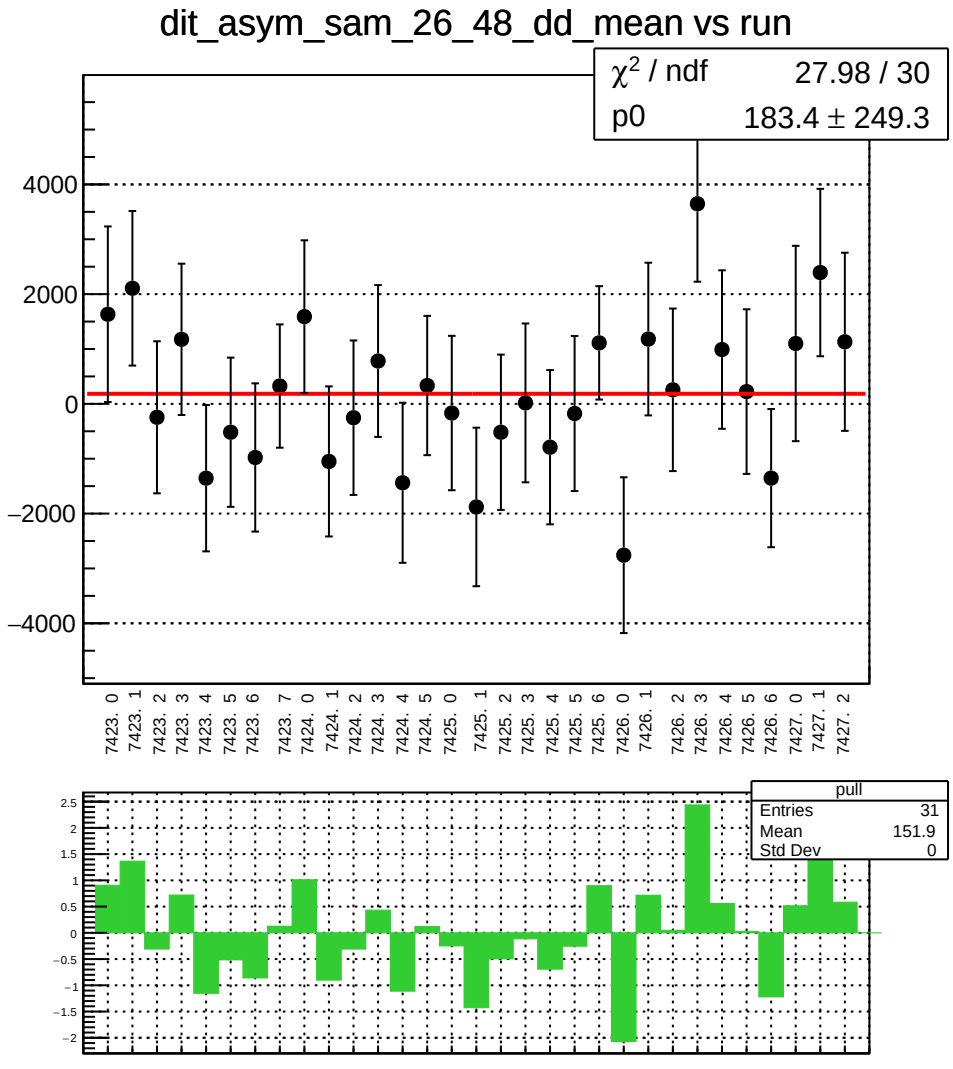

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 35.06 / 30
p0 215.9 ± 213.8
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 5248
Std Dev 0
3
2
1
0
−1
pull1D
Entries 31
Mean 0.0002437
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

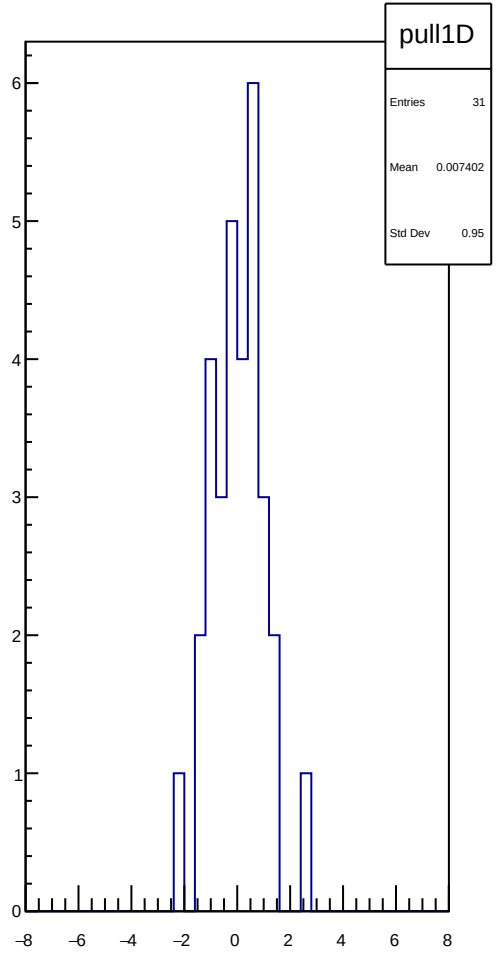

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 544.8 / 30
p0 116.6 ± 0.1512
130
125
120
115
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

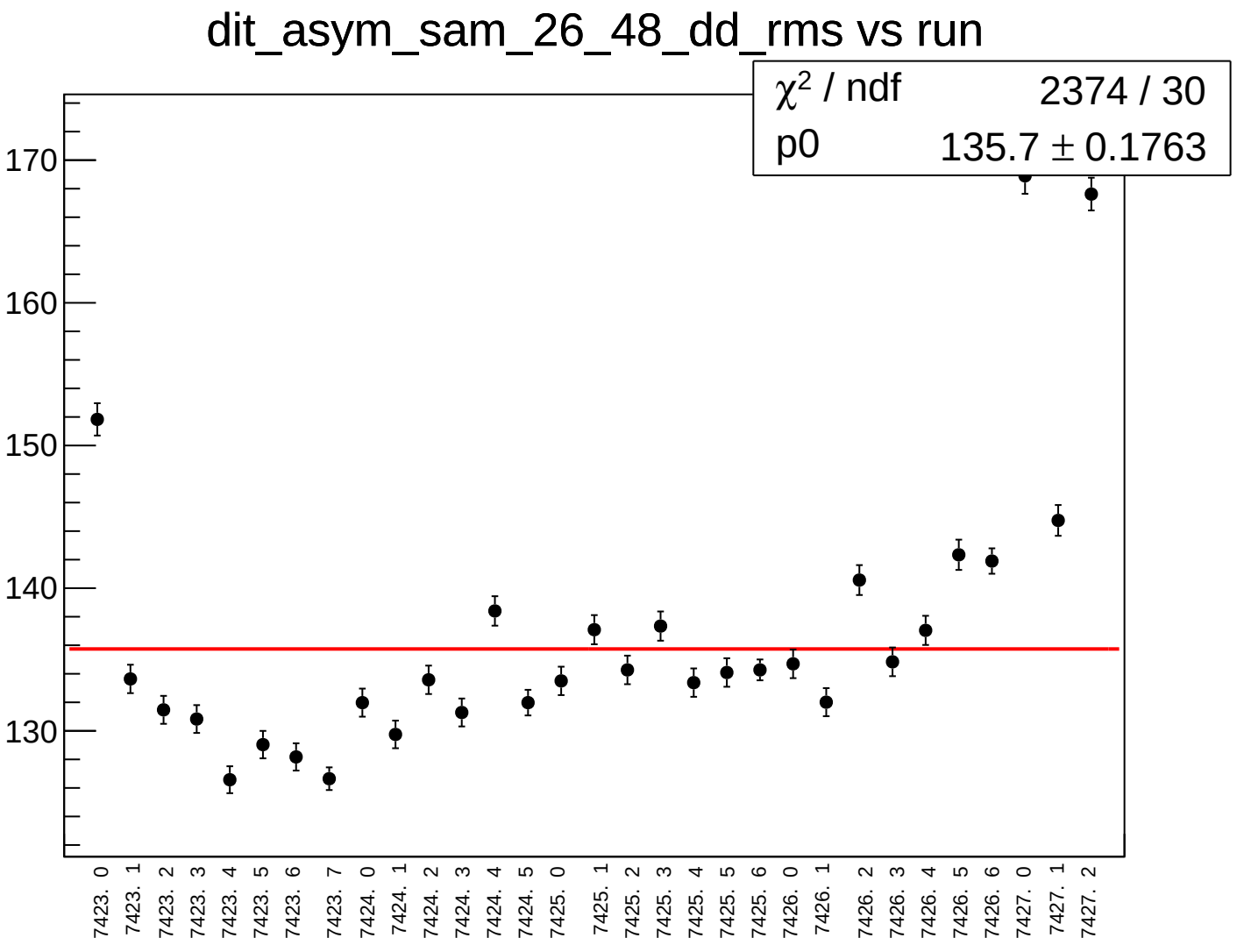

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 27.53 / 30
p0 −1039 ± 944.7
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −392.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

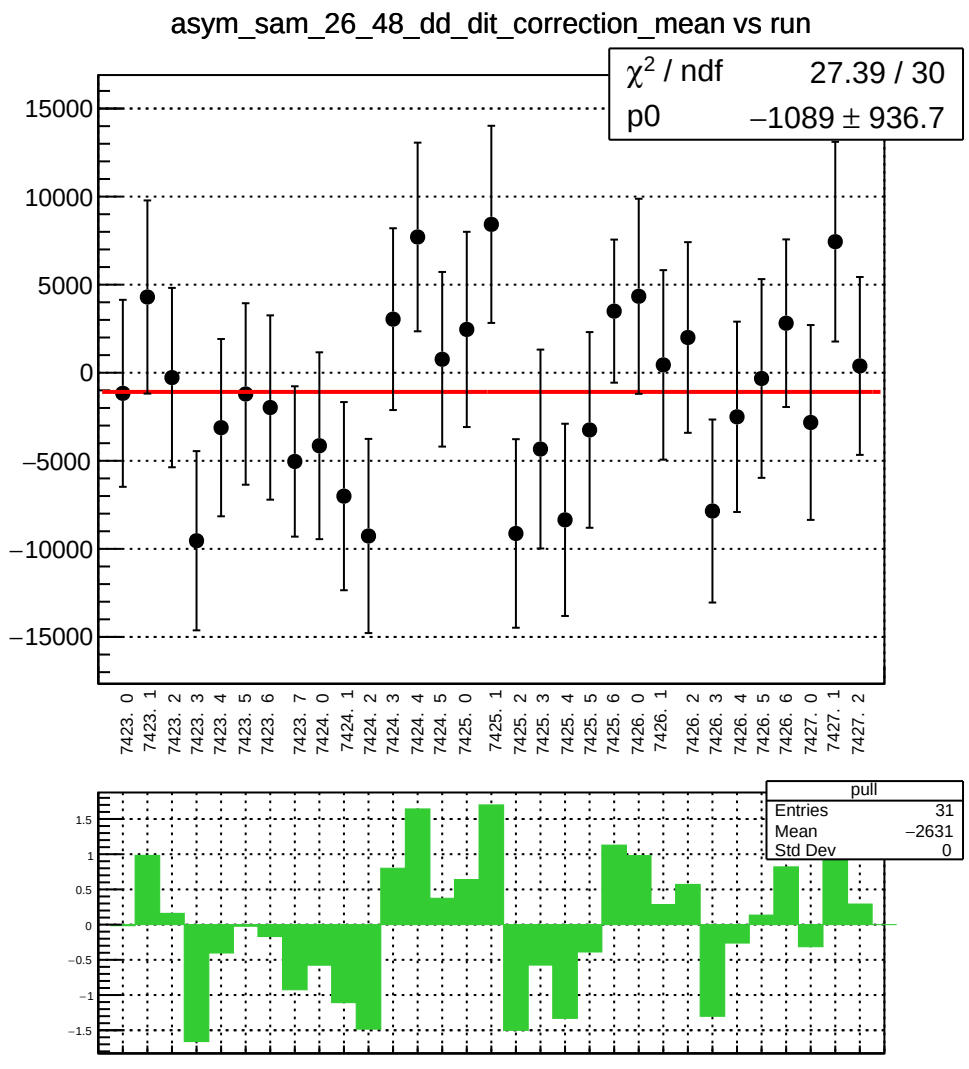

pull1D
Entries 31
Mean −0.004322
Std Dev 0.9423
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

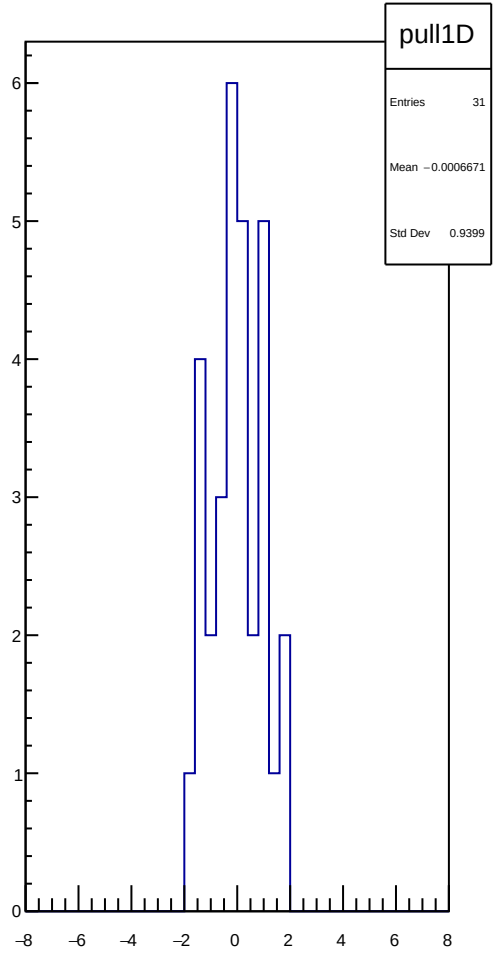

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1050 / 30
p0 515 ± 0.668
560
540
520
500
480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

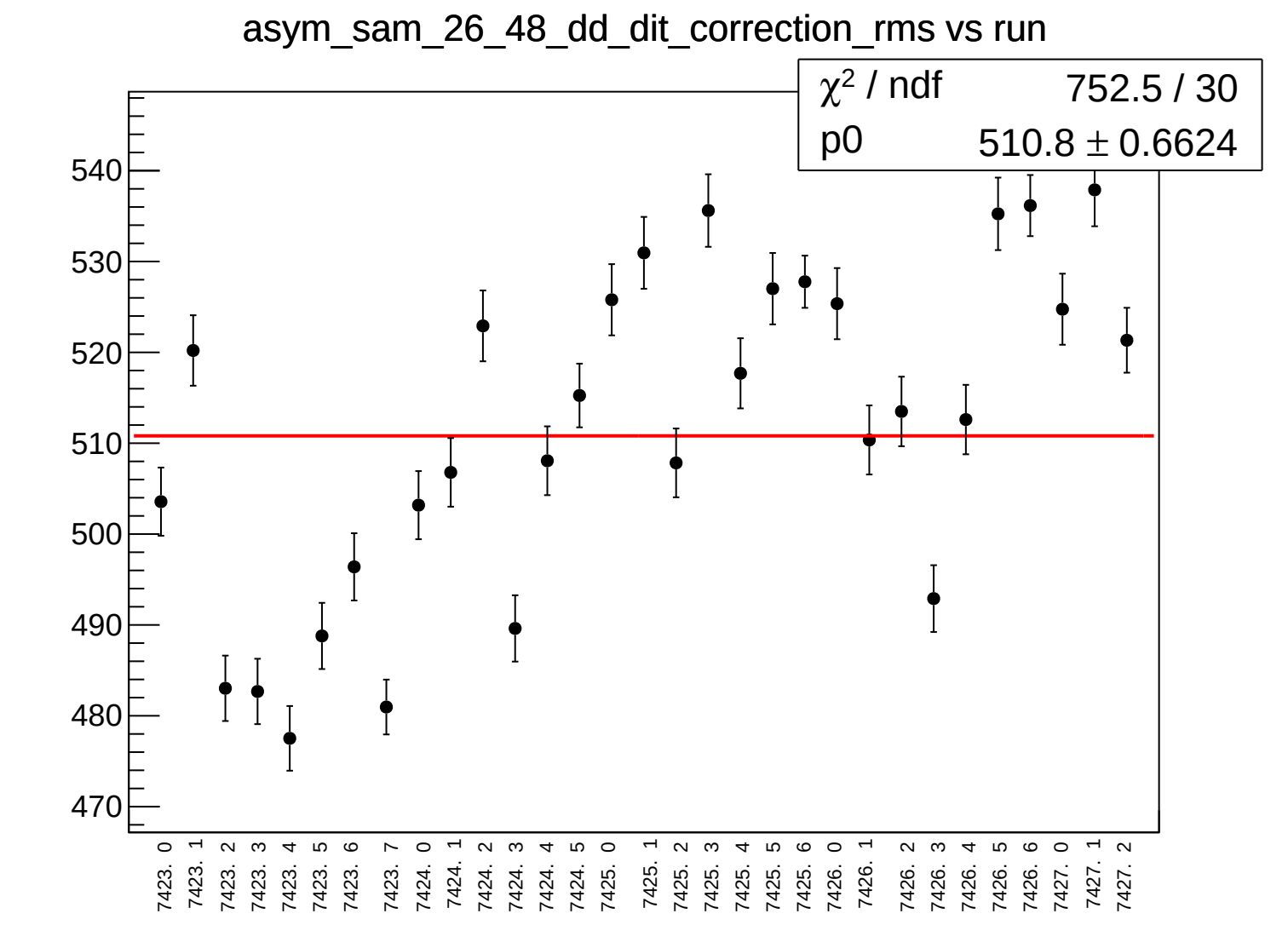

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 27.98 / 30
p0 183.4 ± 249.3
4000
2000
0
−2000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 151.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

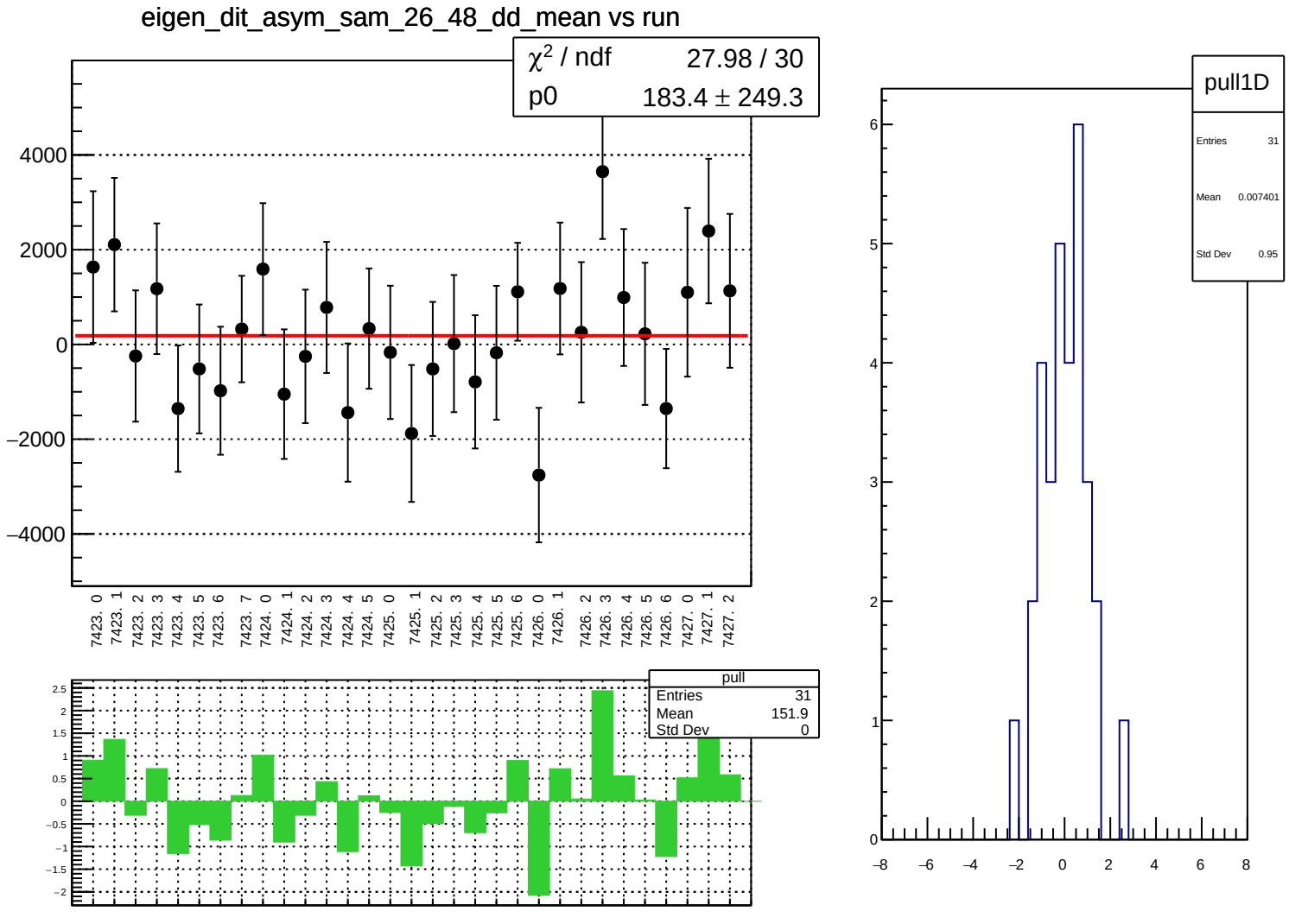

pull1D
Entries 31
Mean 0.007402
Std Dev 0.95
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

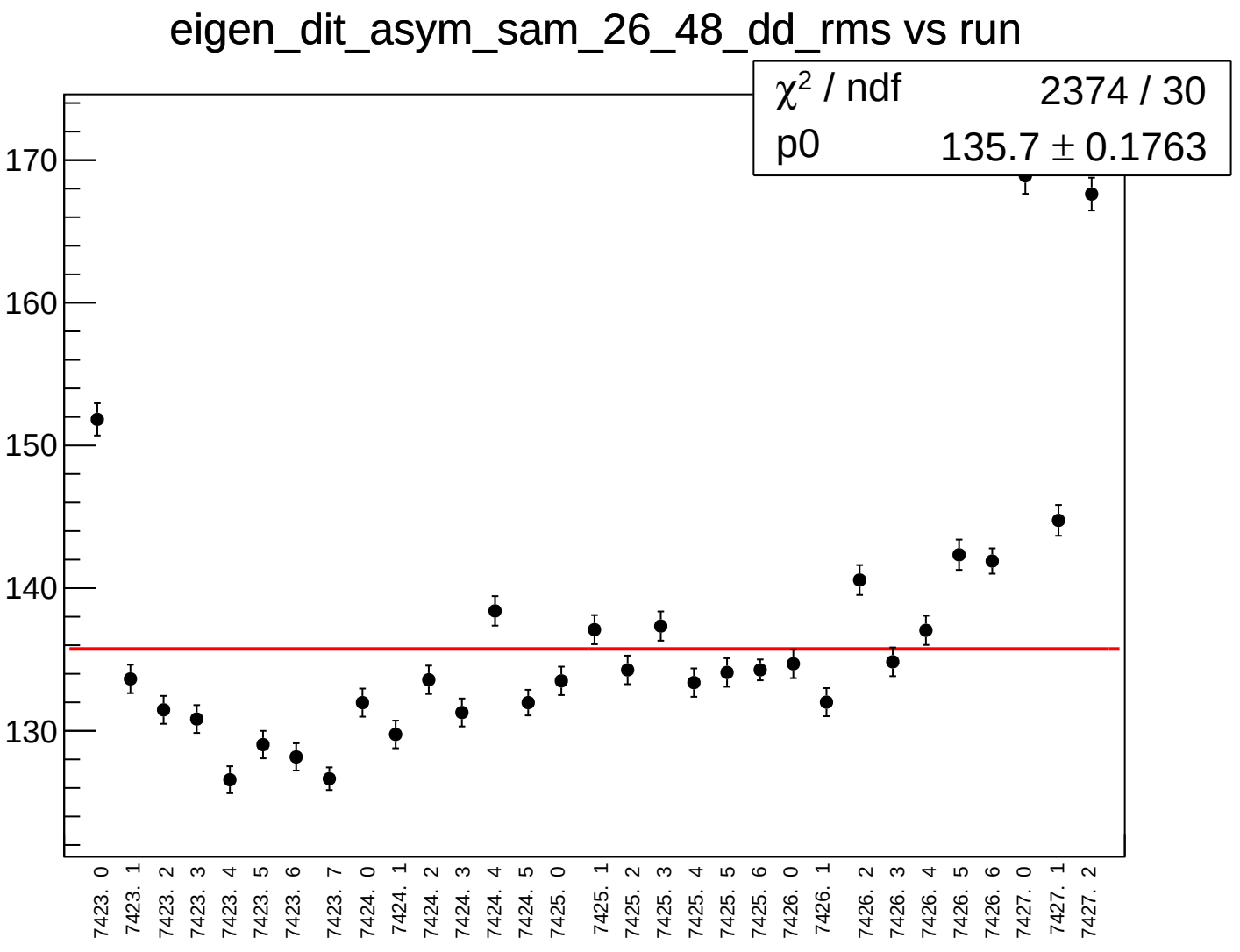

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2374 / 30
p0 135.7 ± 0.1763
170
160
150
140
130
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

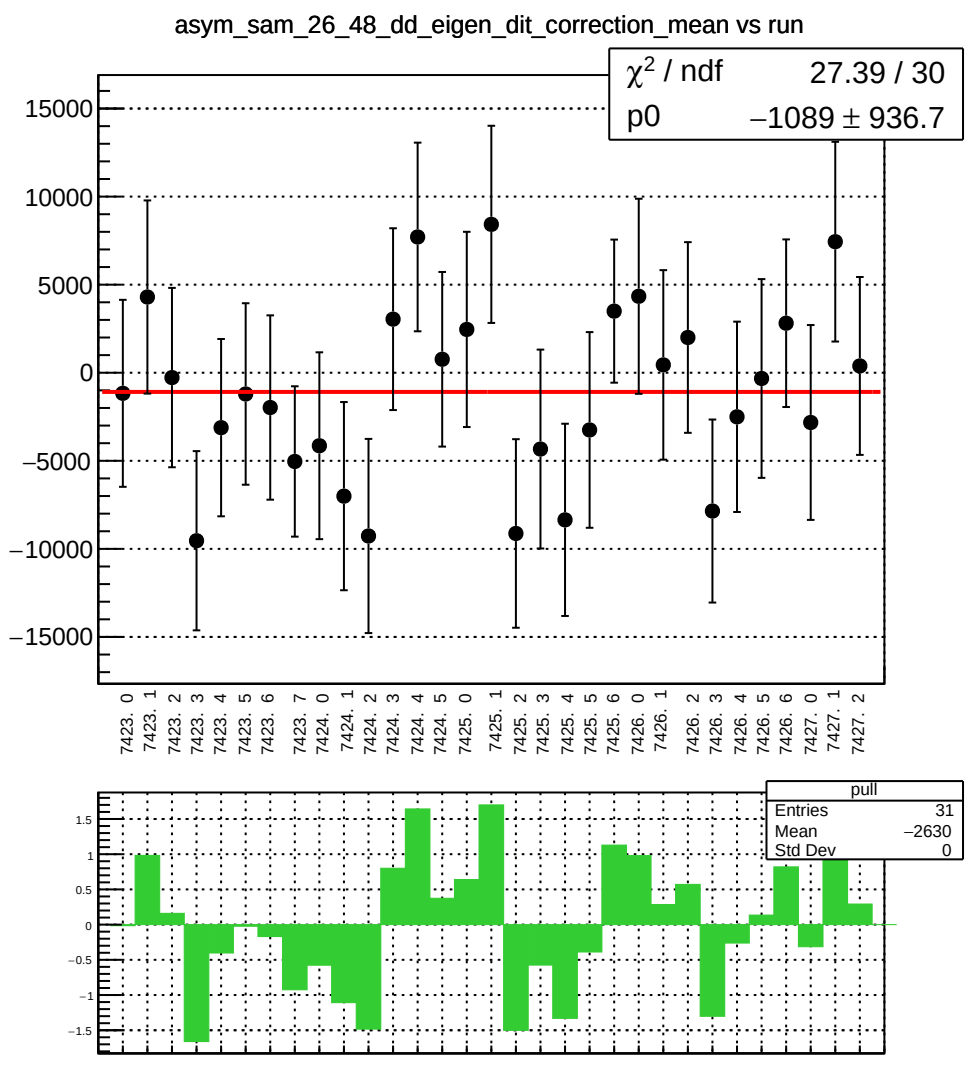

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 27.39 / 30
p0 −1089 ± 936.7
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −2631
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

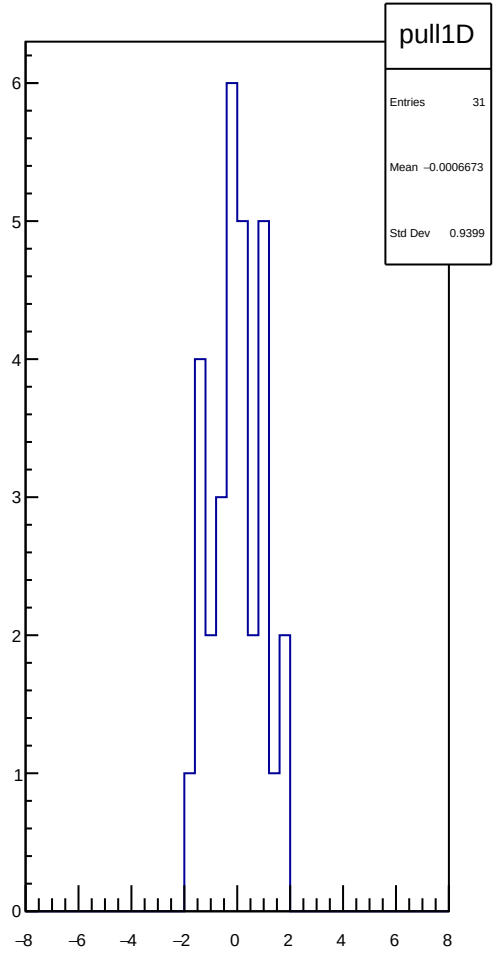

pull1D
Entries 31
Mean −0.0006671
Std Dev 0.9399
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

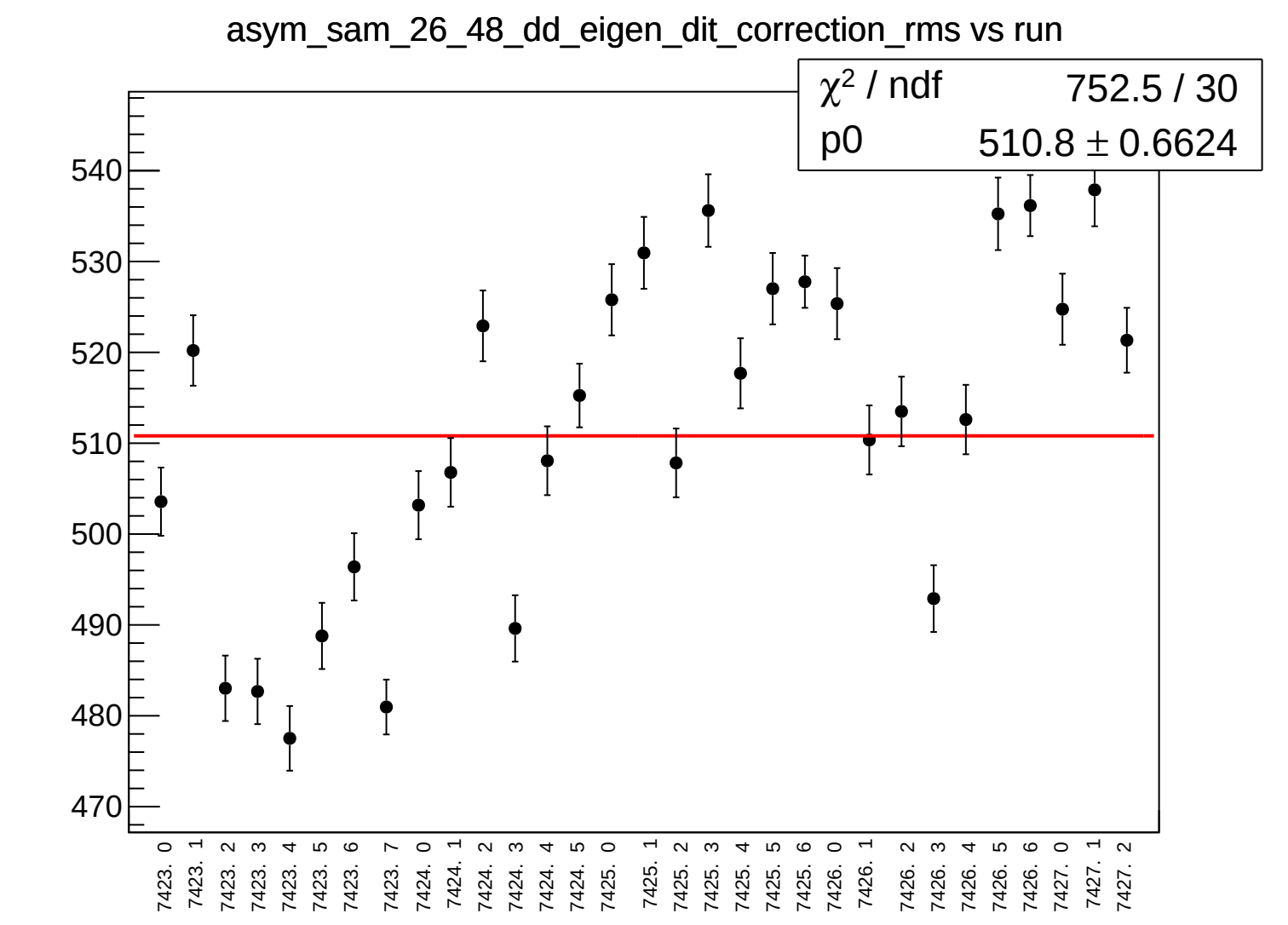

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 752.5 / 30
p0 510.8 ± 0.6624
540
530
520
510
500
490
480
470
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

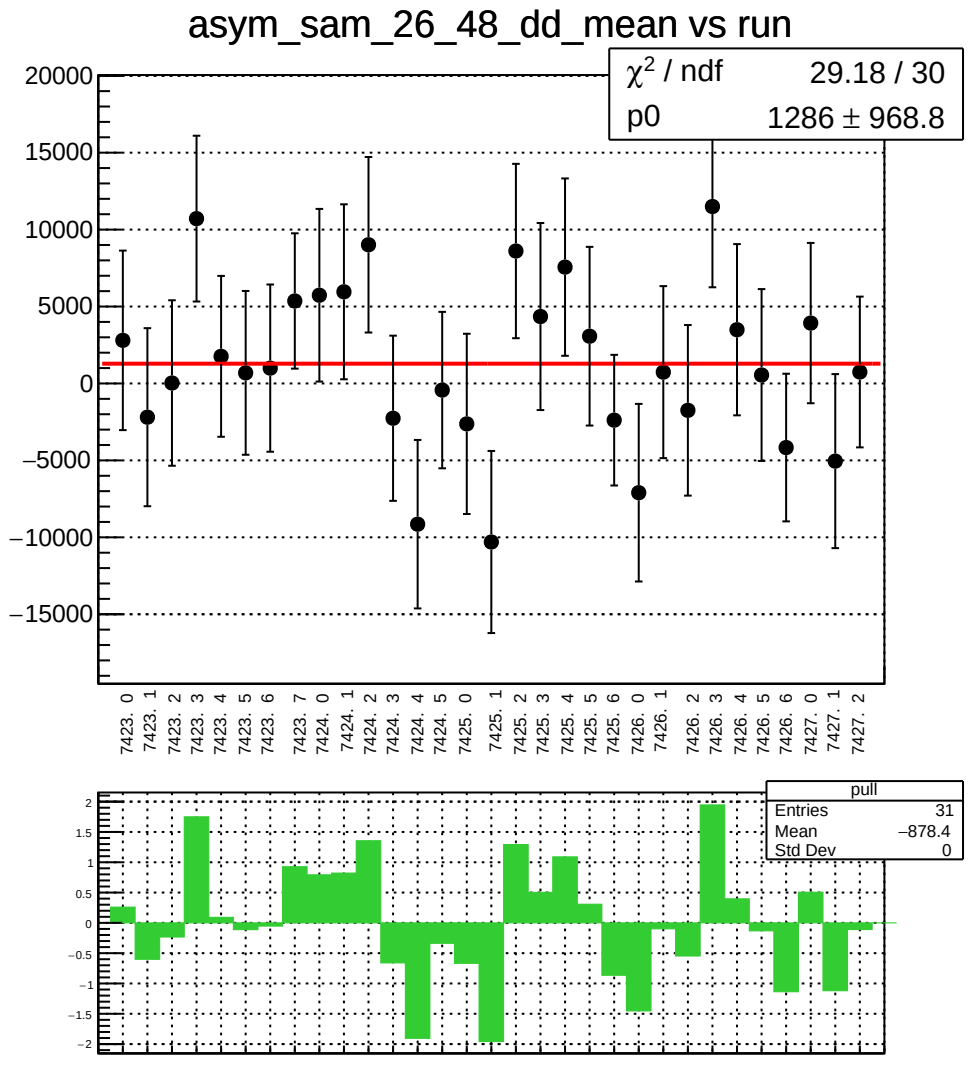

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 27.98 / 30
p0 183.4 ± 249.3
4000
2000
0
−2000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 151.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.007401
Std Dev 0.95
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

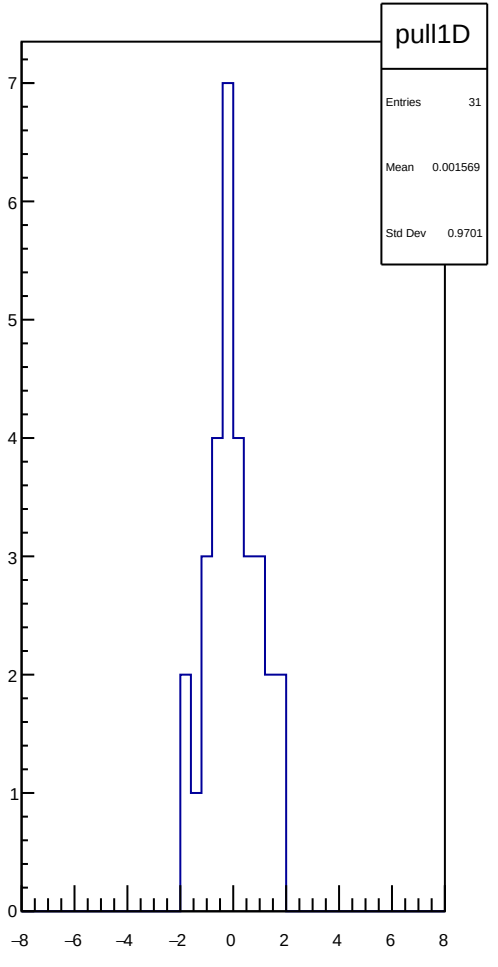

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2374 / 30
p0 135.7 ± 0.1763
170
160
150
140
130
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

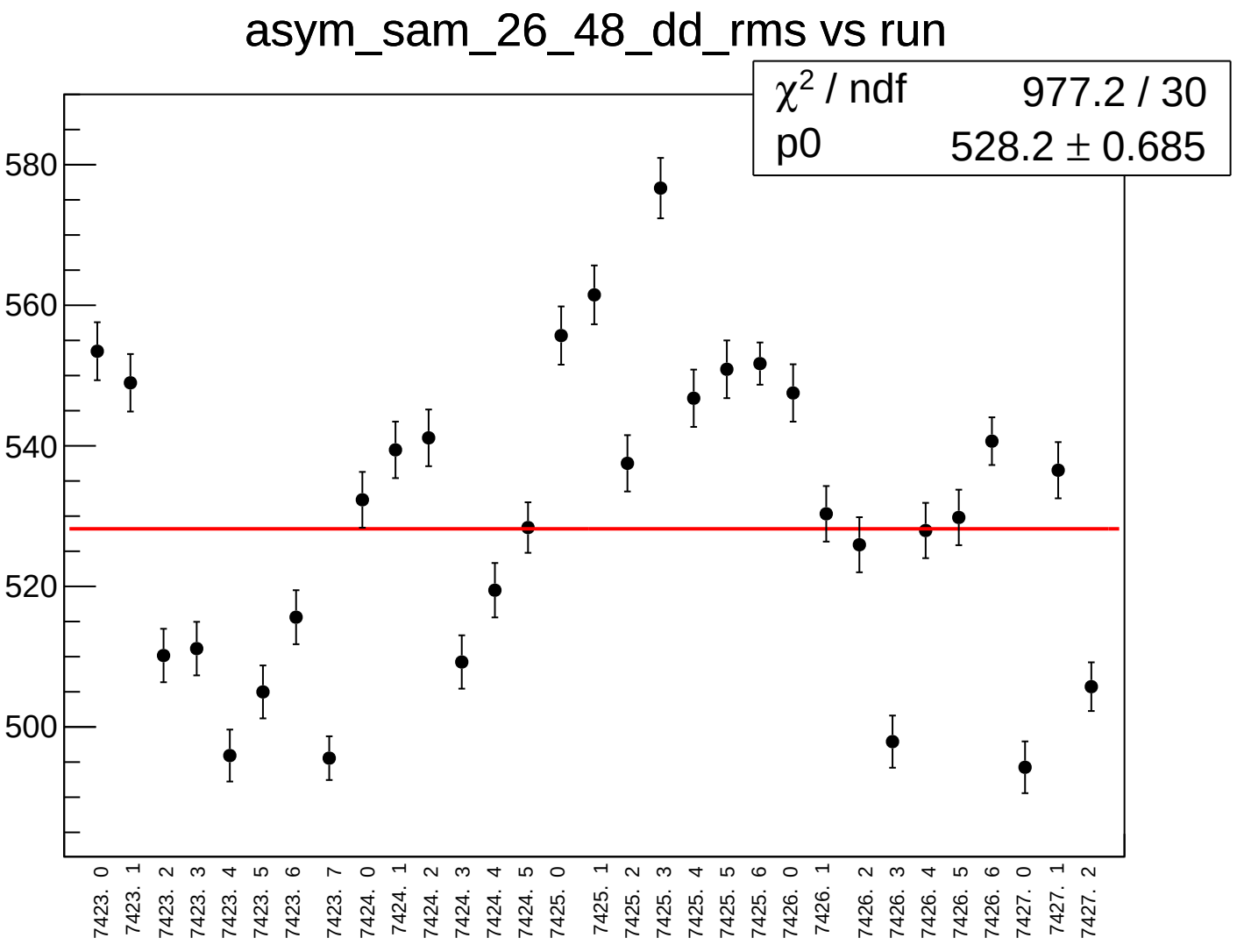

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 27.39 / 30
p0 −1089 ± 936.7
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −2630
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

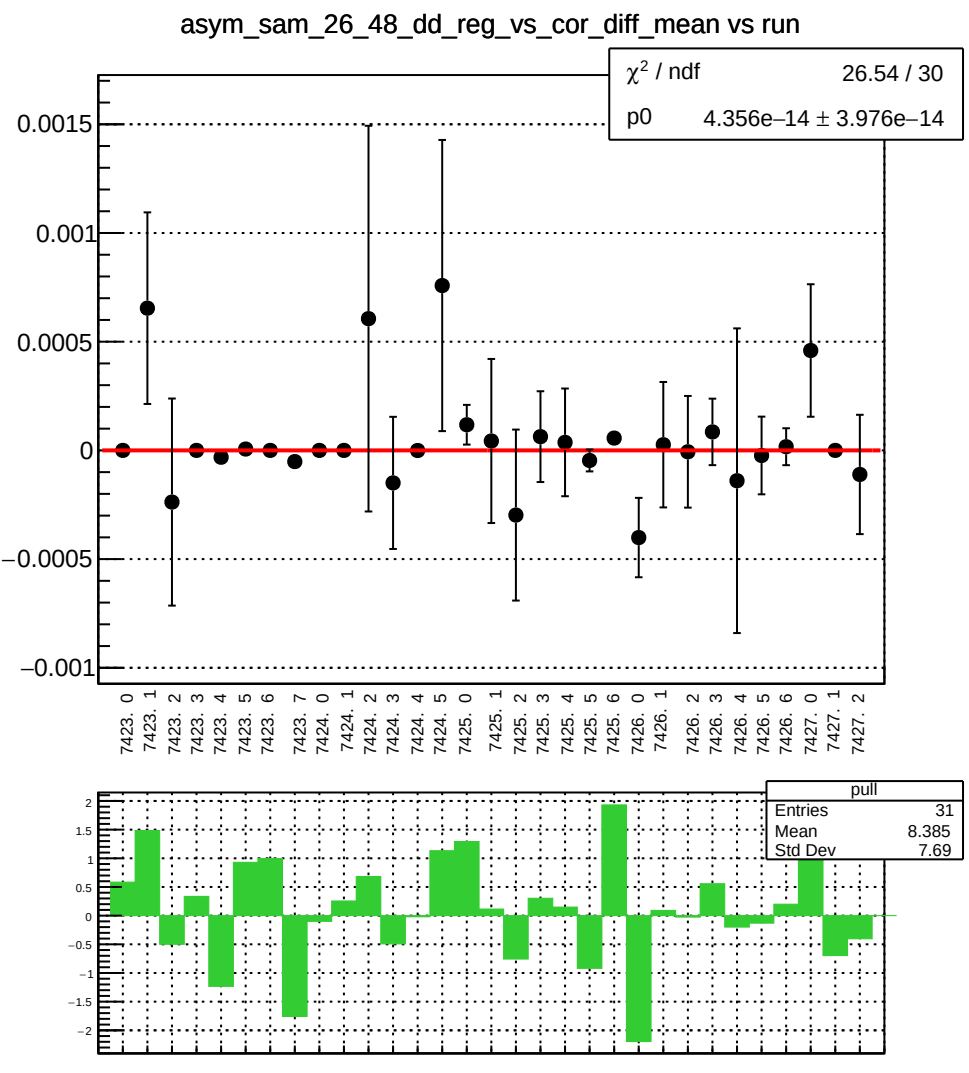

pull1D
Entries 31
Mean −0.0006673
Std Dev 0.9399
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

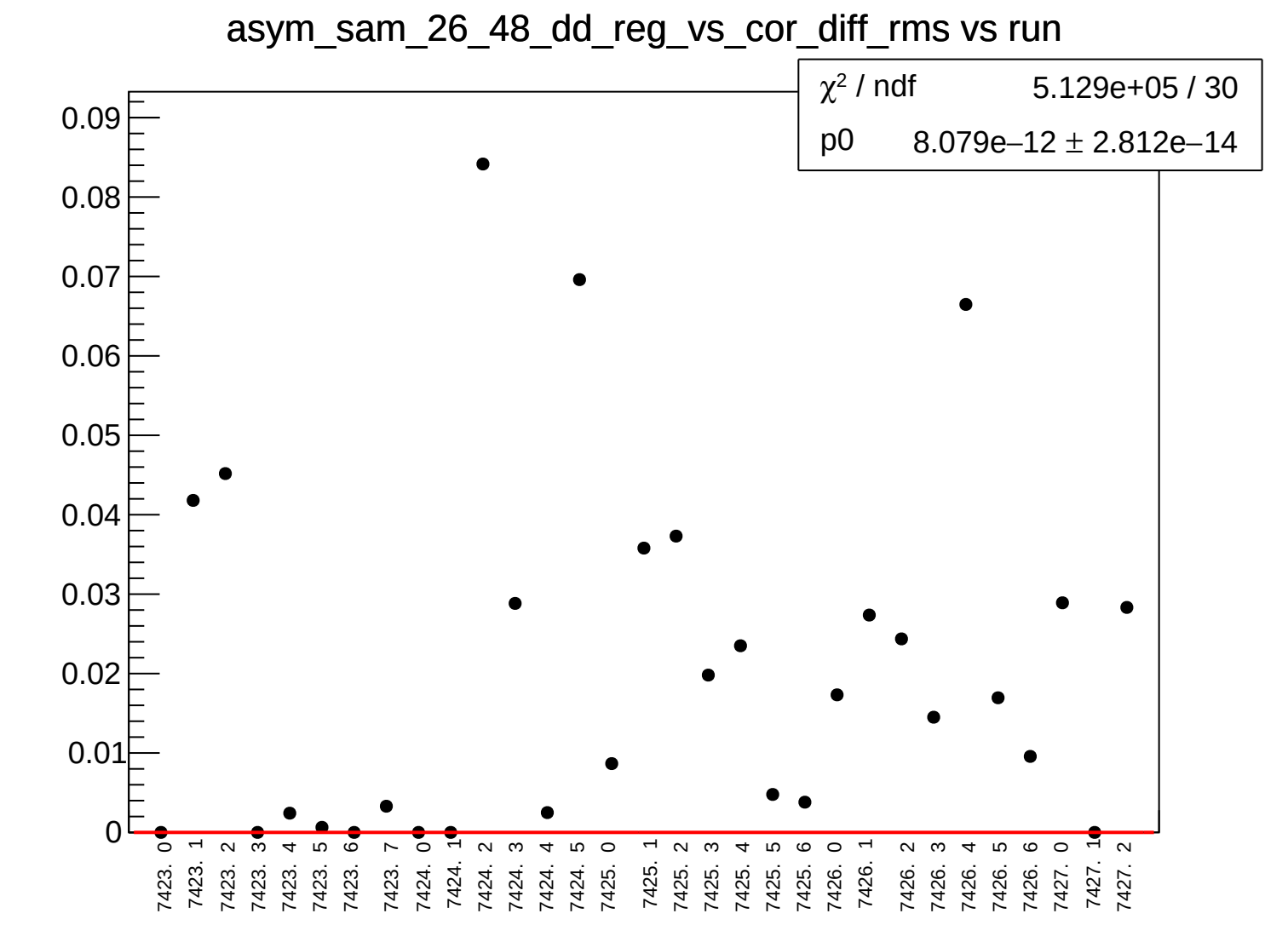

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 752.5 / 30
p0 510.8 ± 0.6624
540
530
520
510
500
490
480
470
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam_26_48_dd_mean vs run
χ² / ndf 29.18 / 30
p0 1286 ± 968.8
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −878.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

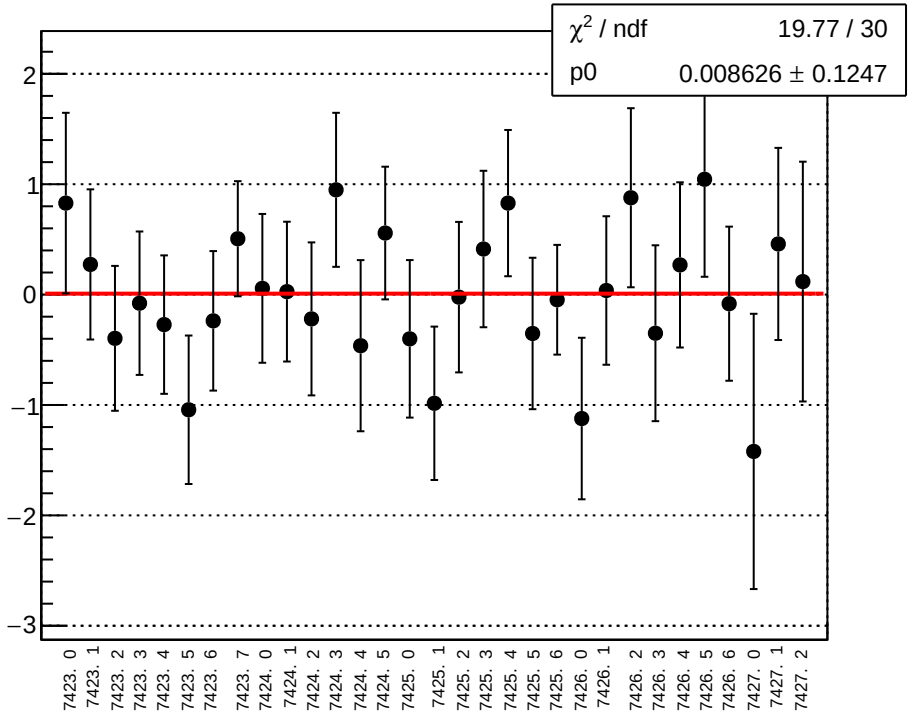

pull1D
Entries 31
Mean 0.001569
Std Dev 0.9701
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

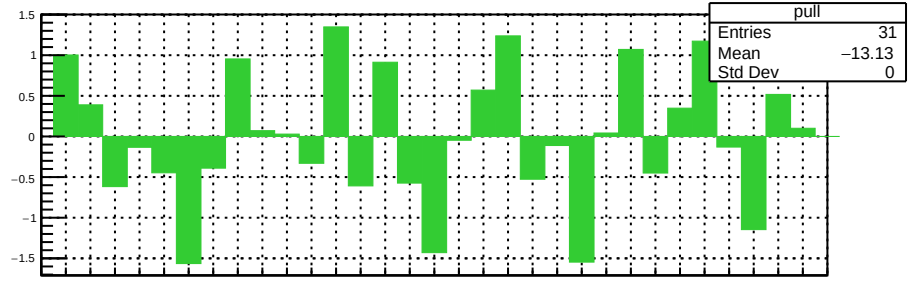

asym_sam_26_48_dd_rms vs run
χ² / ndf 977.2 / 30
p0 528.2 ± 0.685
580
560
540
520
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

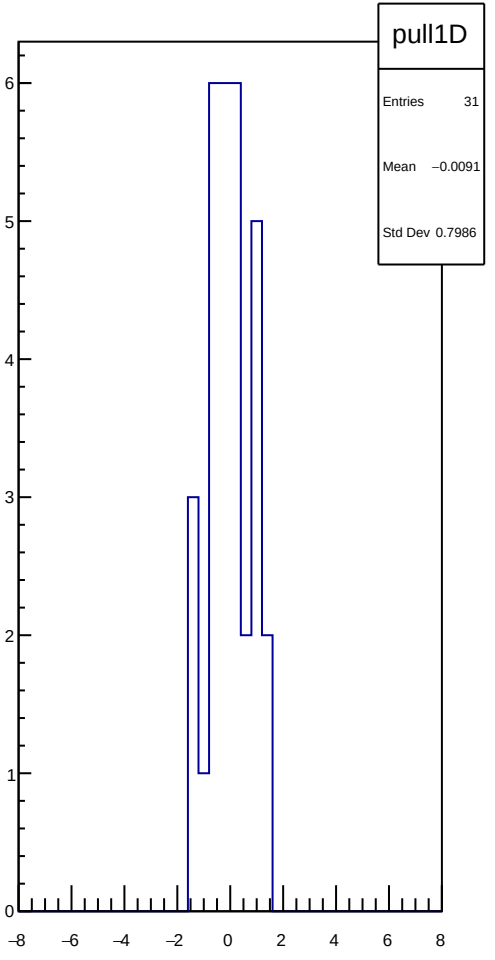

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 26.54 / 30
p0 4.356e−14 ± 3.976e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.385
Std Dev 7.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.1006
Std Dev 0.9199
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

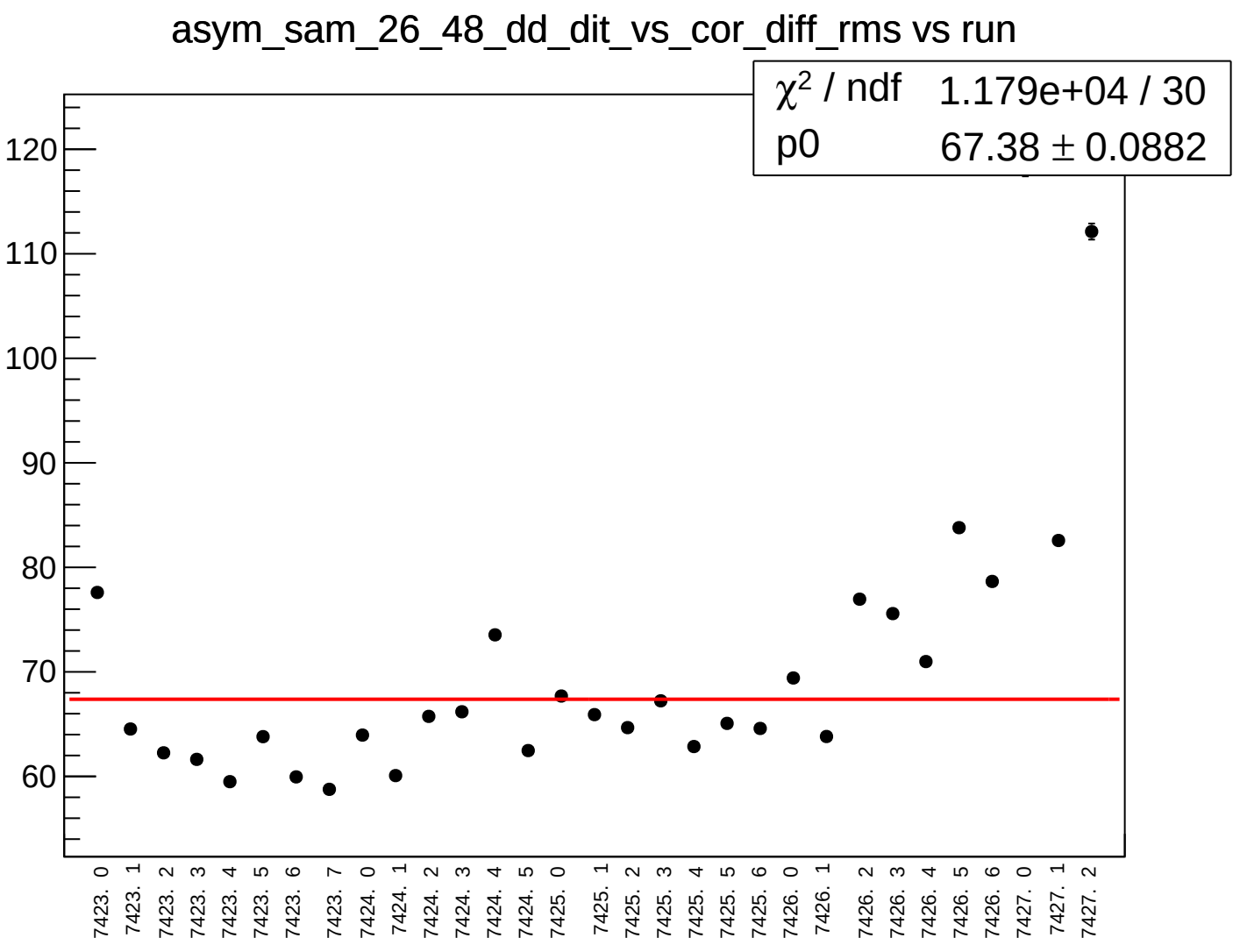

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.129e+05 / 30
p0 8.079e−12 ± 2.812e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run

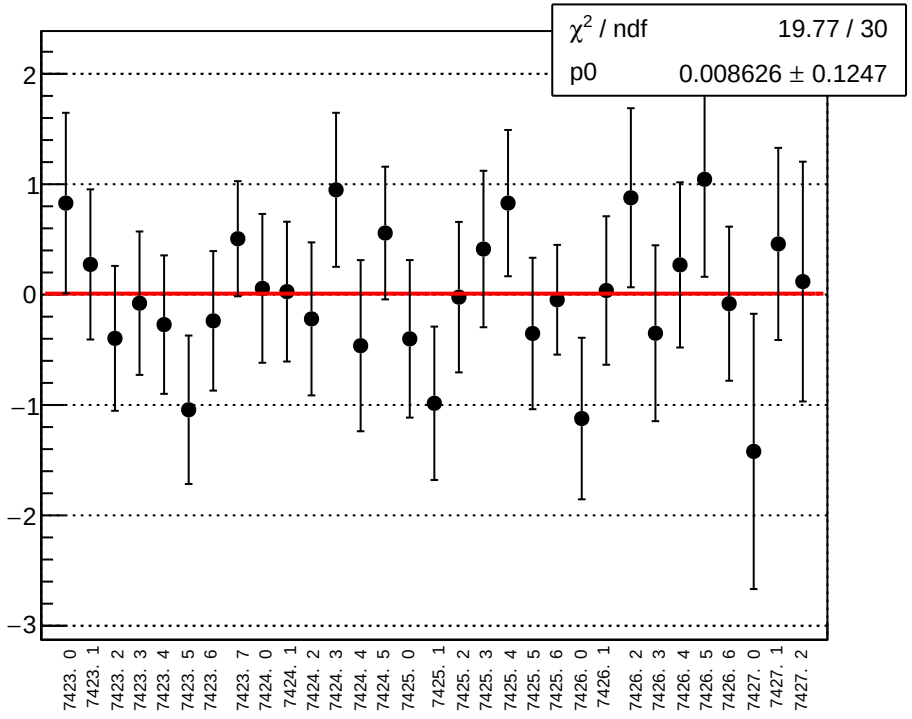


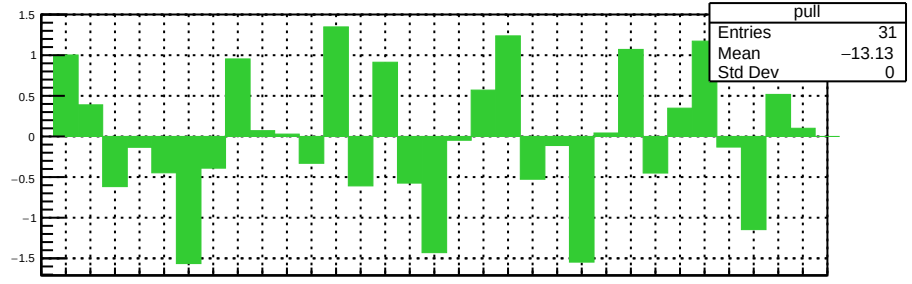


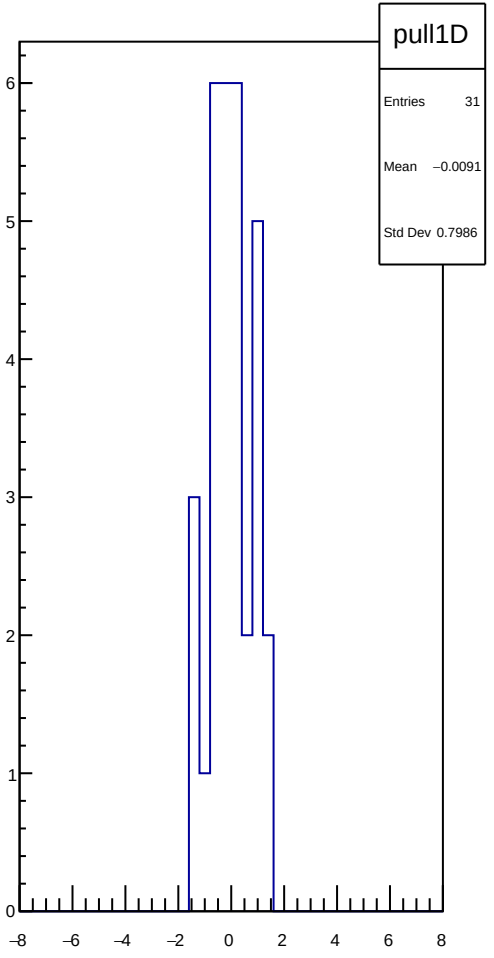


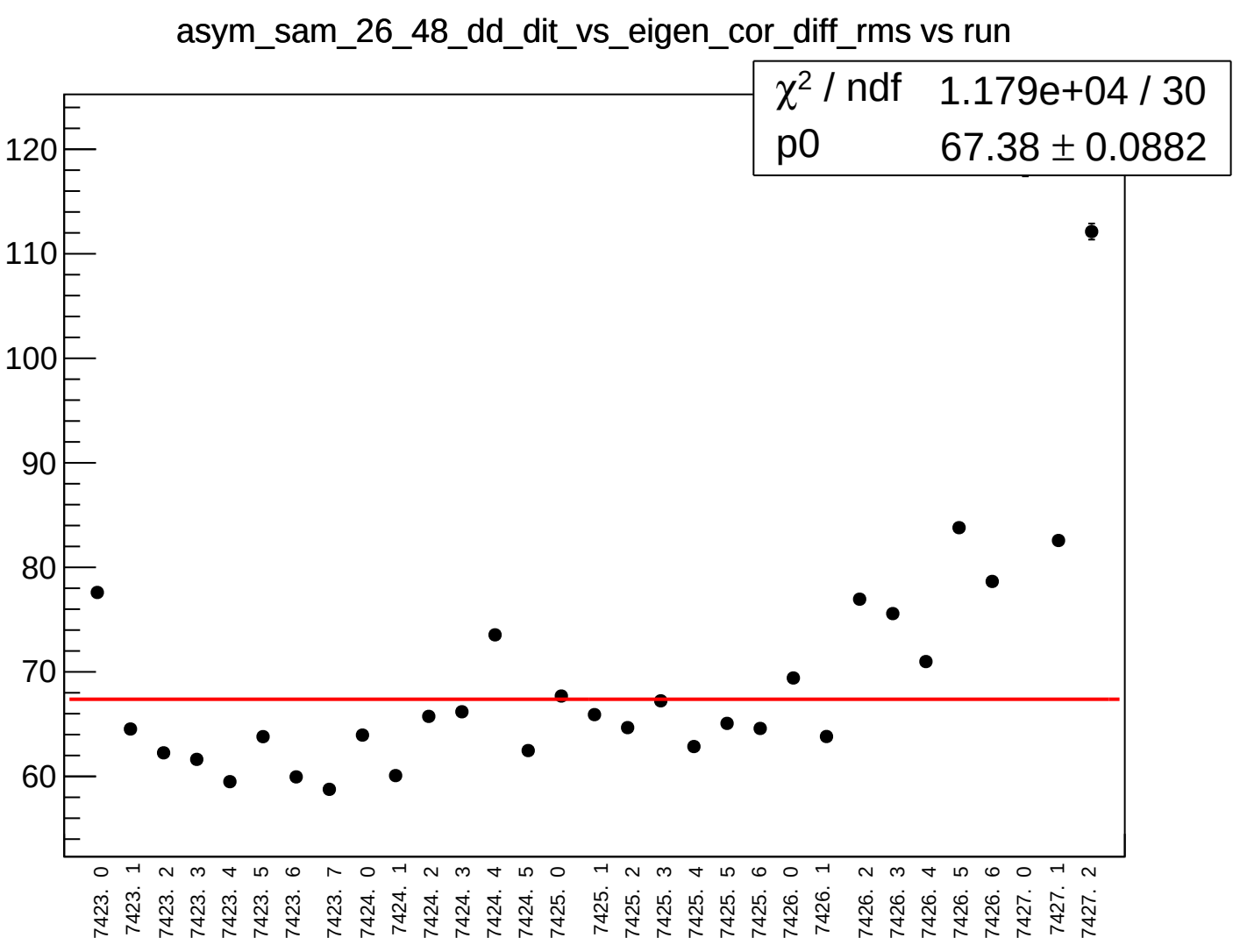

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.179e+04 / 30
p0 67.38 ± 0.0882
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

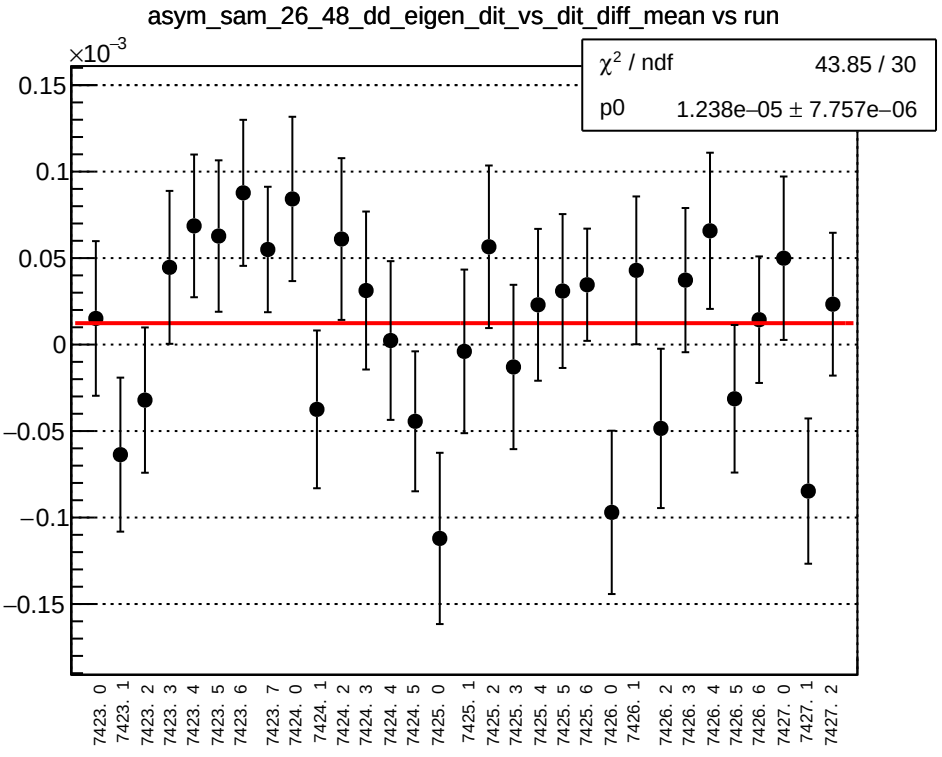
asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run

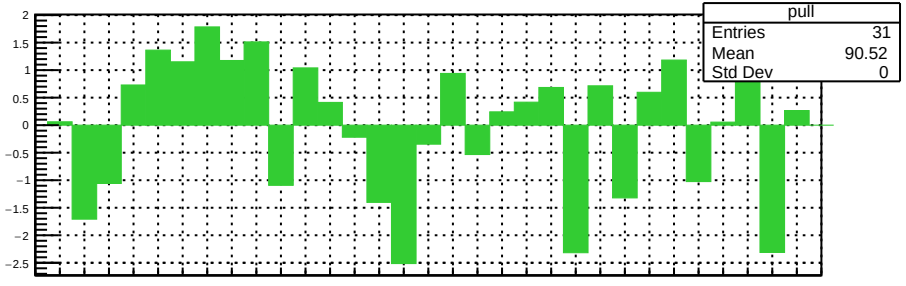


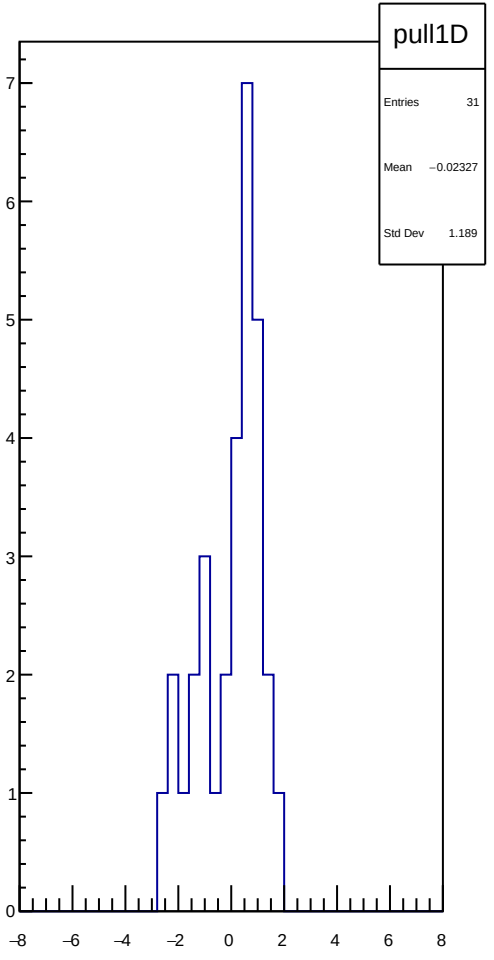


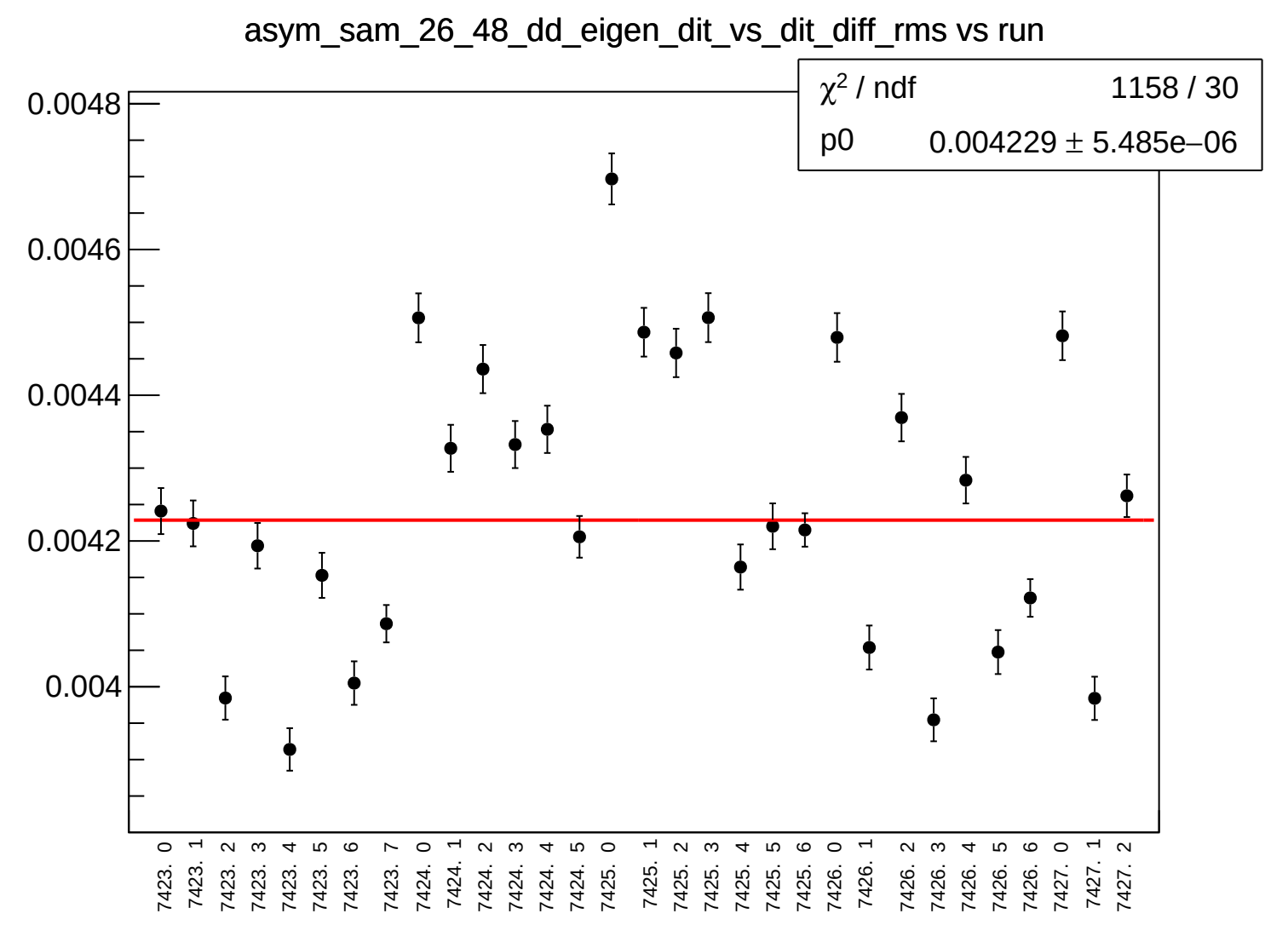



asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.179e+04 / 30
p0 67.38 ± 0.0882
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

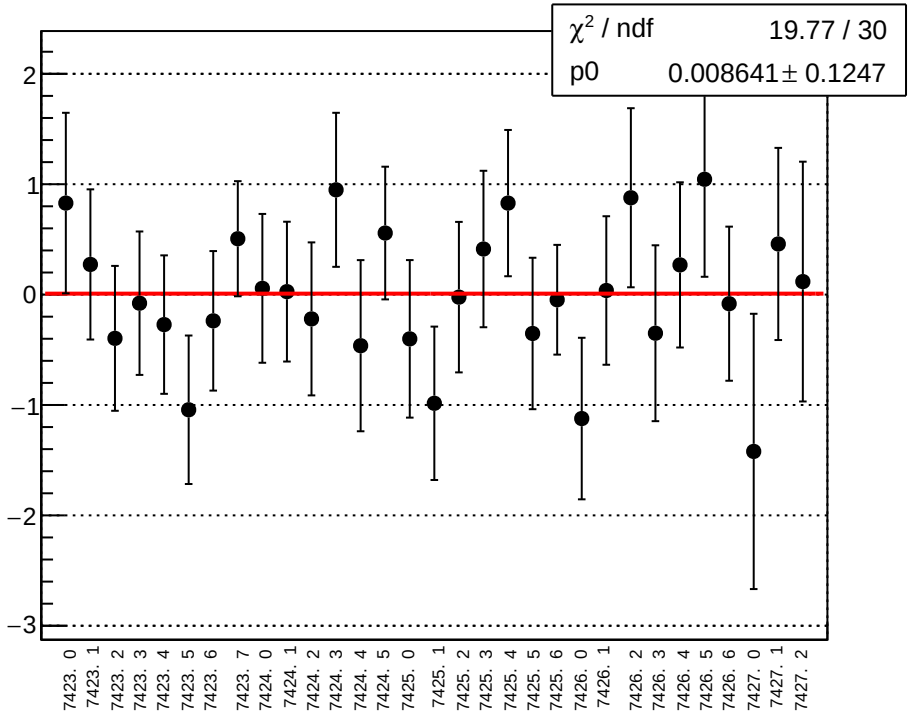

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.85 / 30
p0 1.238e−05 ± 7.757e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

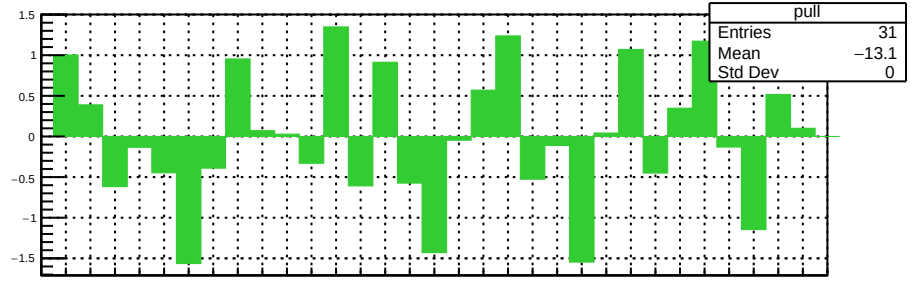

pull
Entries 31
Mean 90.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

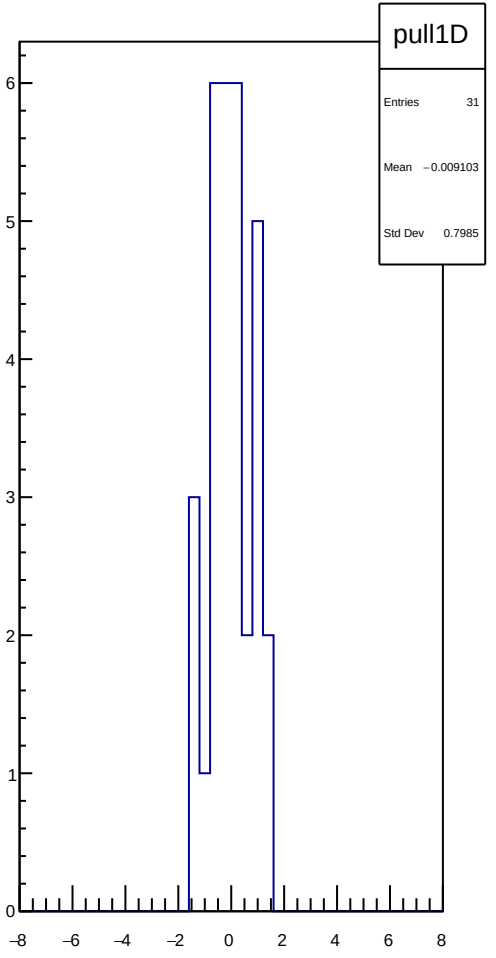

pull1D
Entries 31
Mean −0.02327
Std Dev 1.189
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

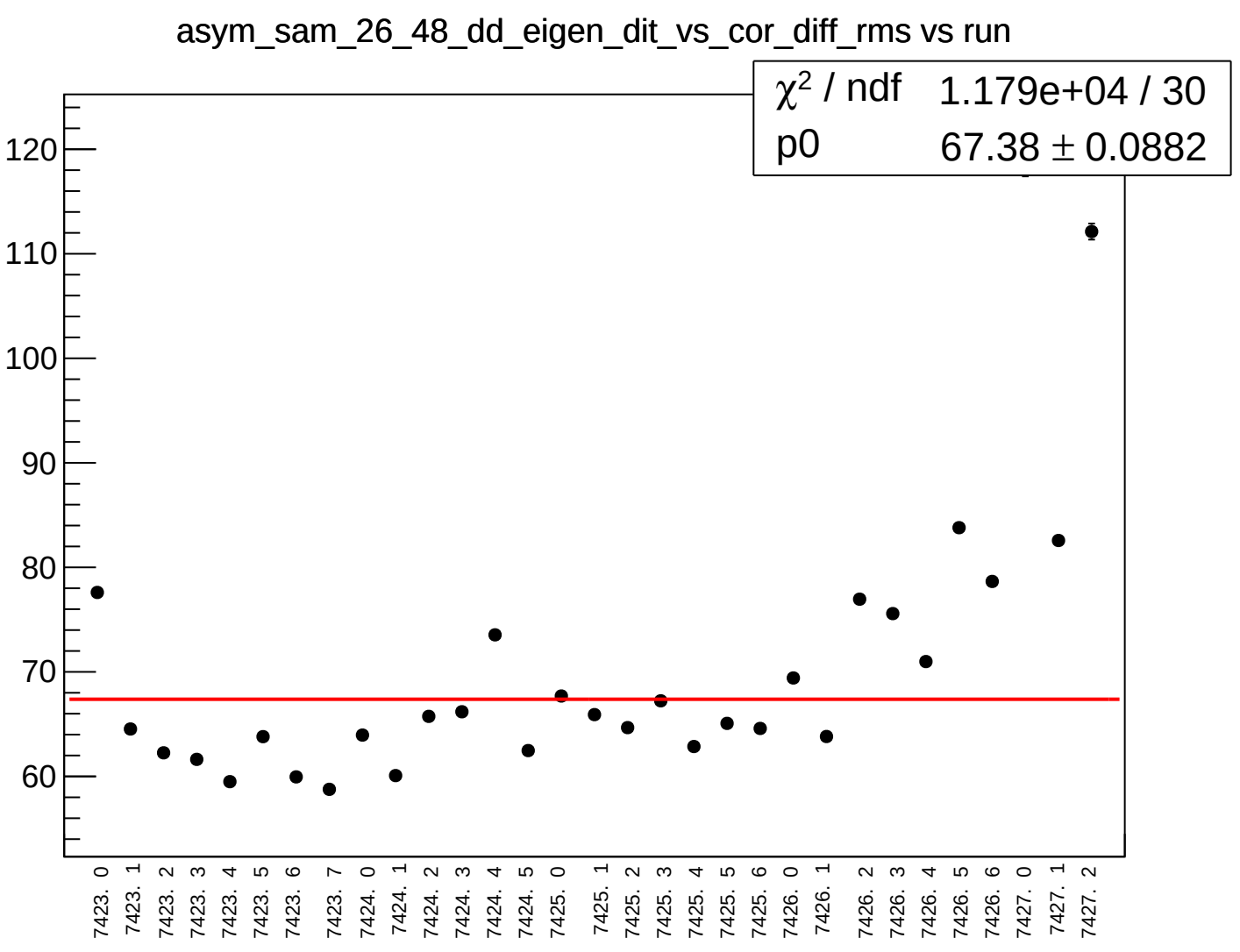

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1158 / 30
p0 0.004229 ± 5.485e−06
0.0048
0.0046
0.0044
0.0042
0.004
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run

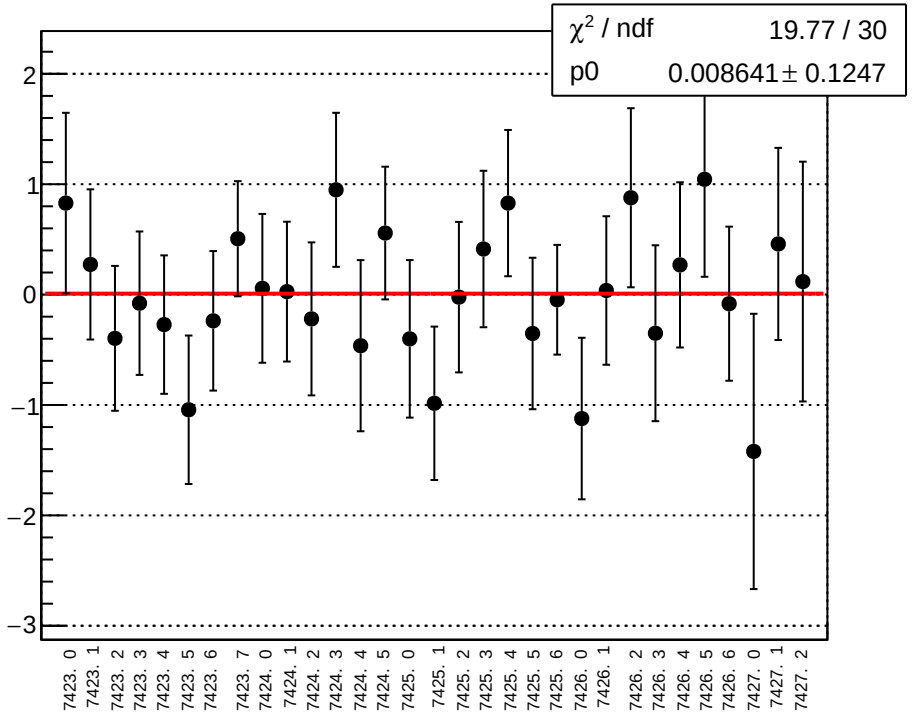


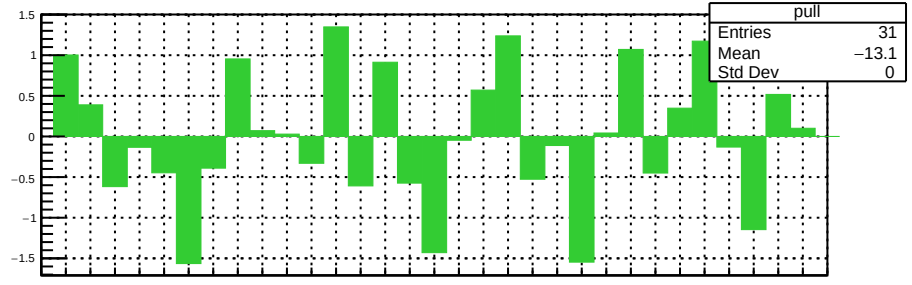


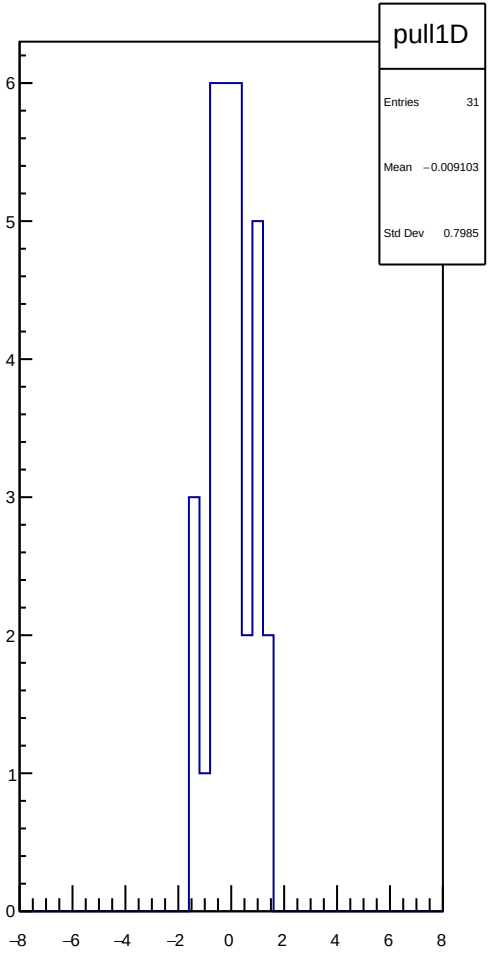


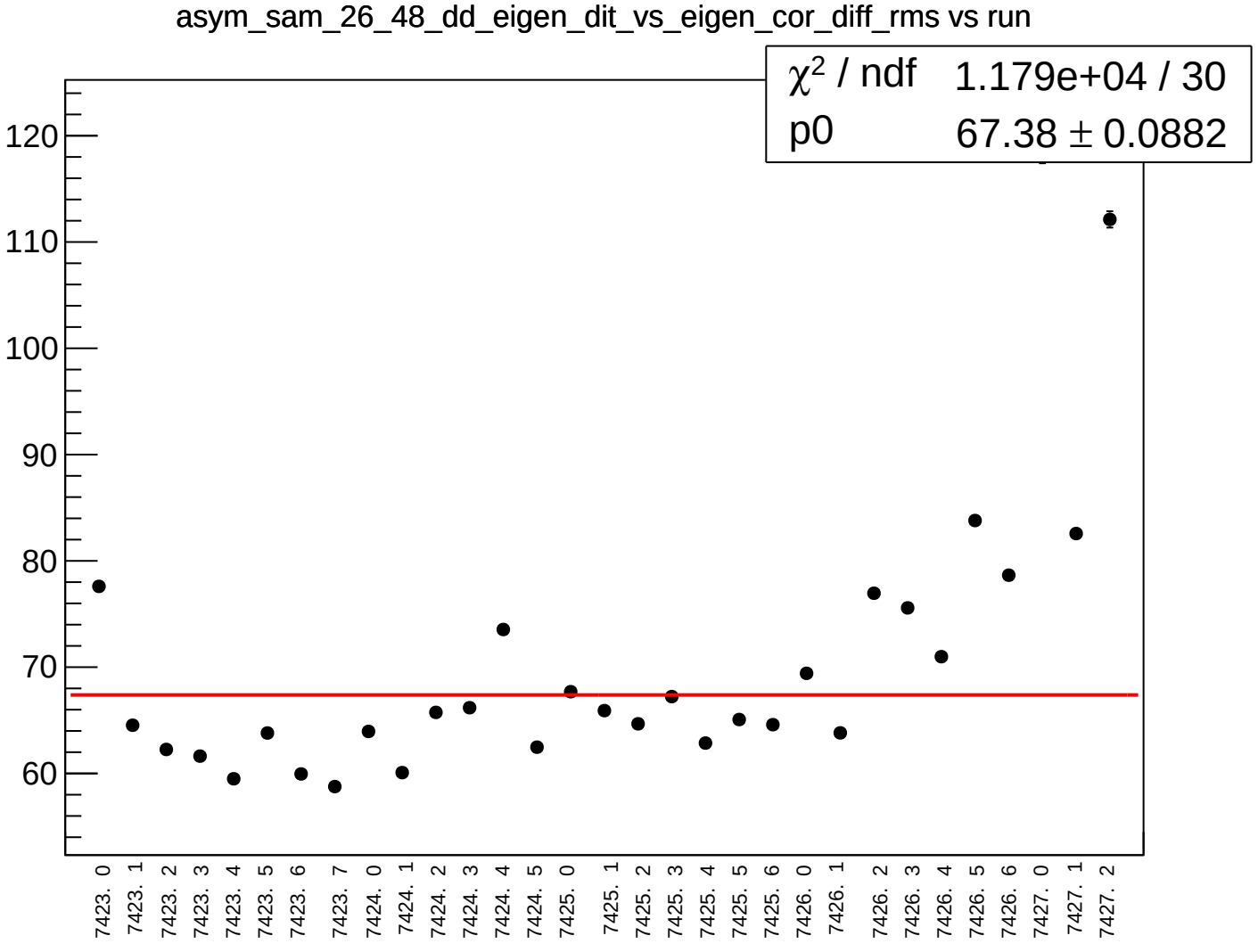

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.179e+04 / 30
p0 67.38 ± 0.0882
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

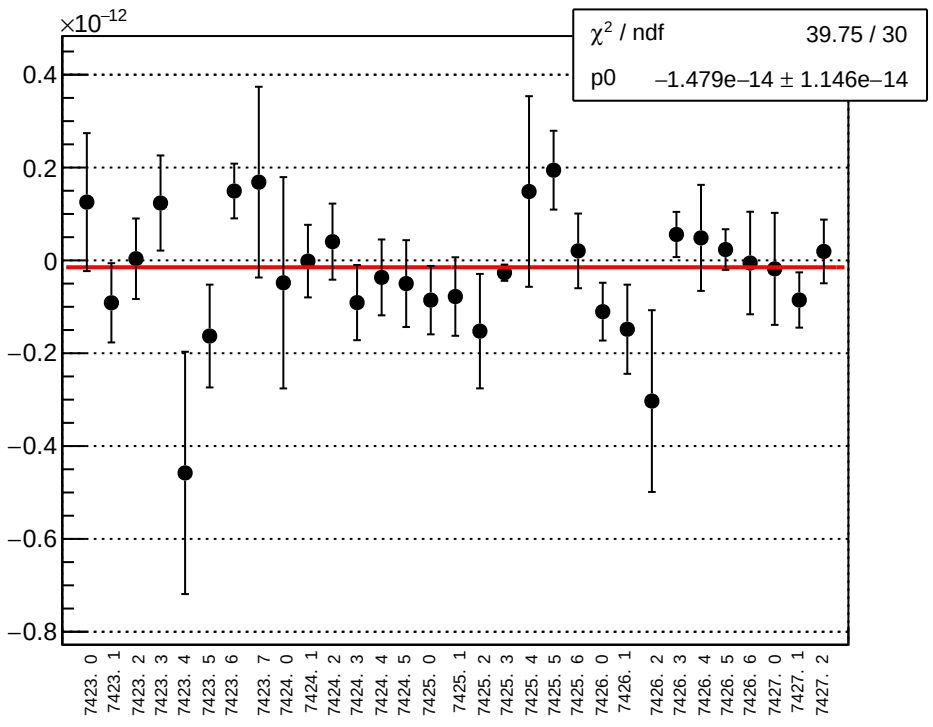
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

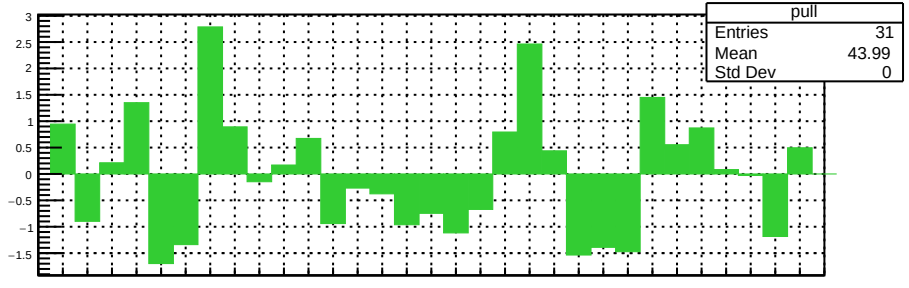


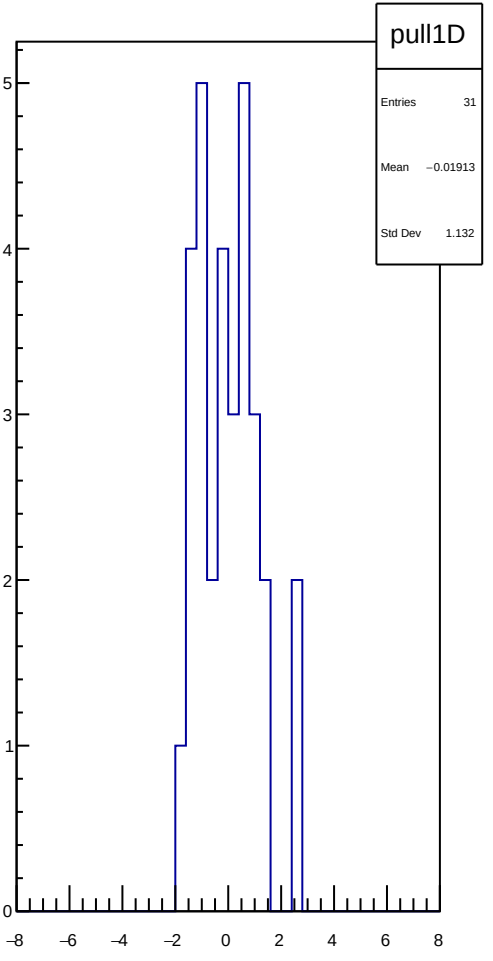


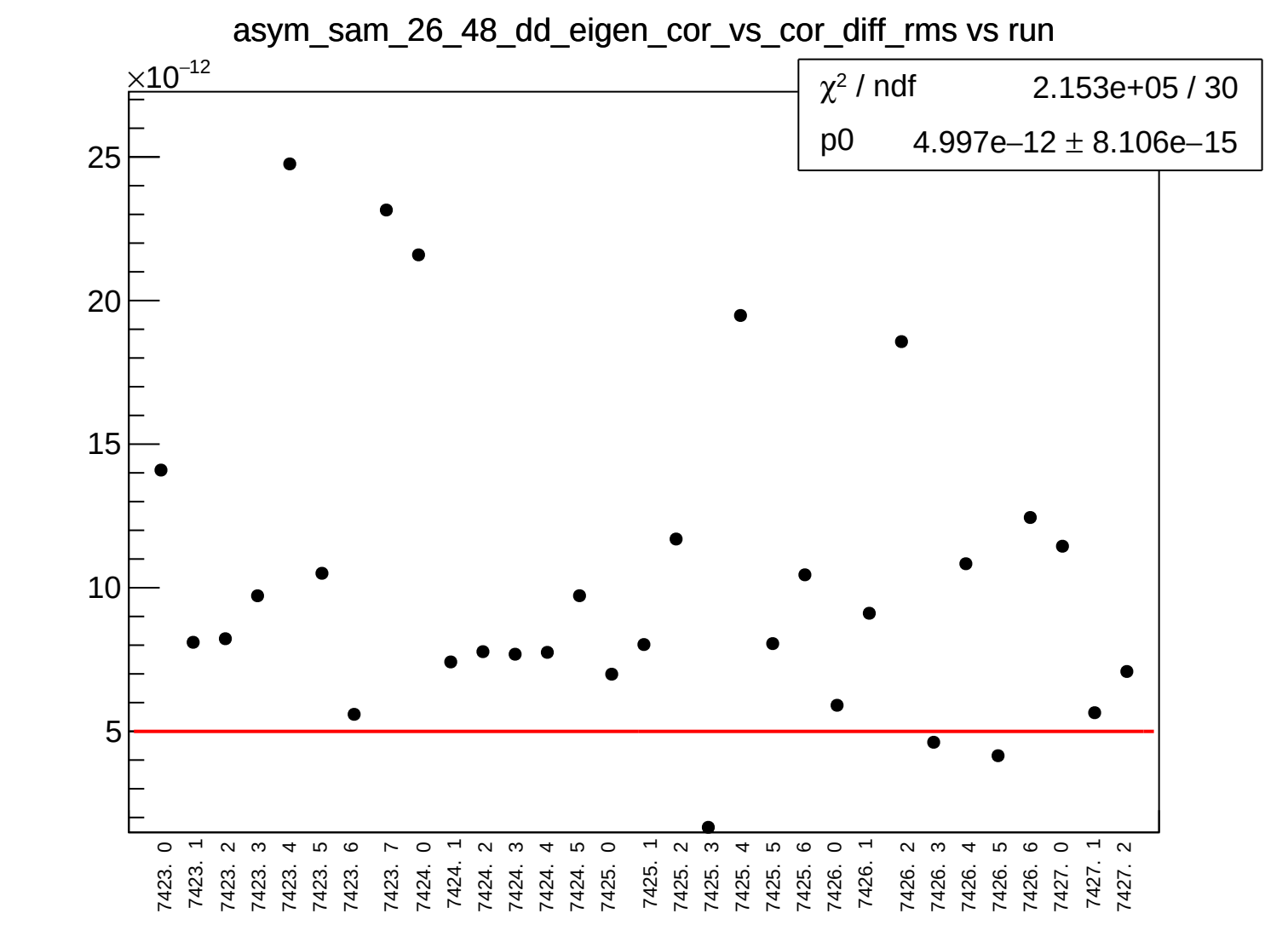


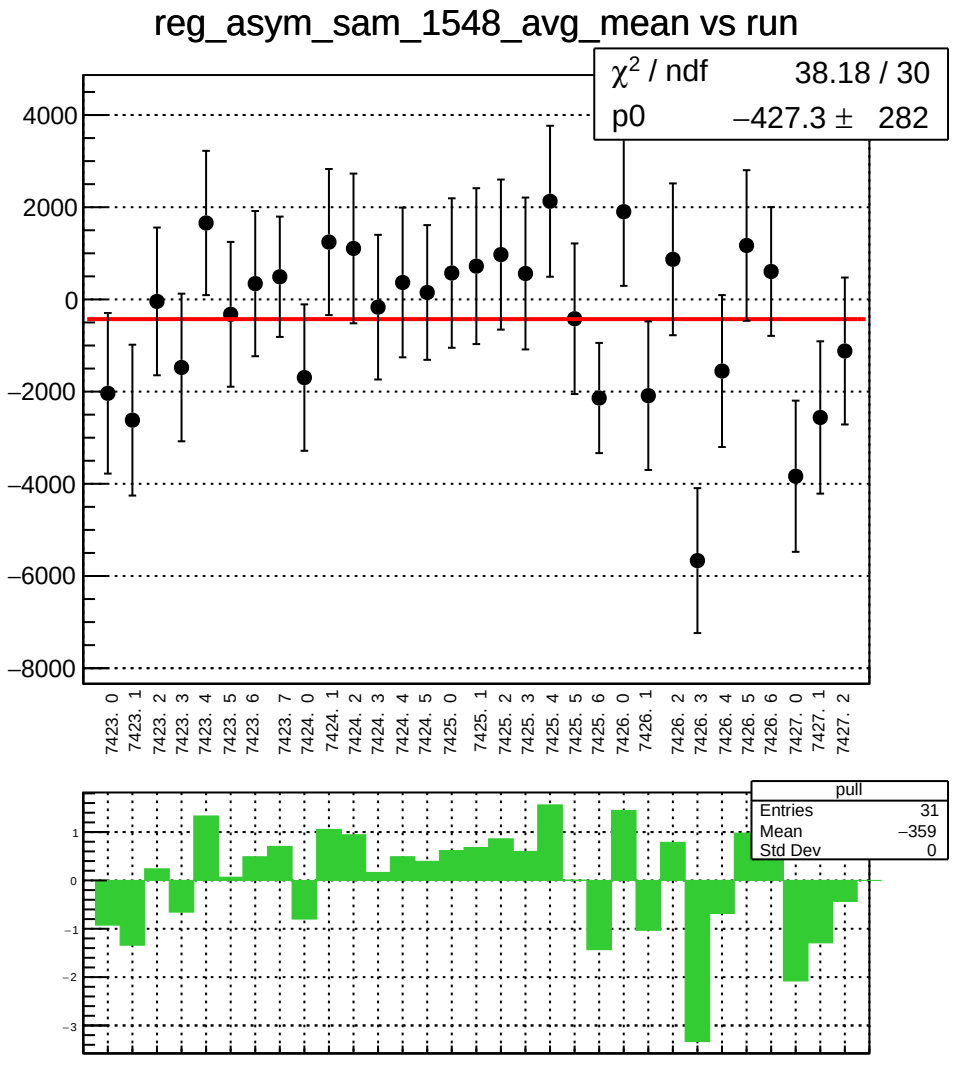

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.179e+04 / 30
p0 67.38 ± 0.0882
120
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

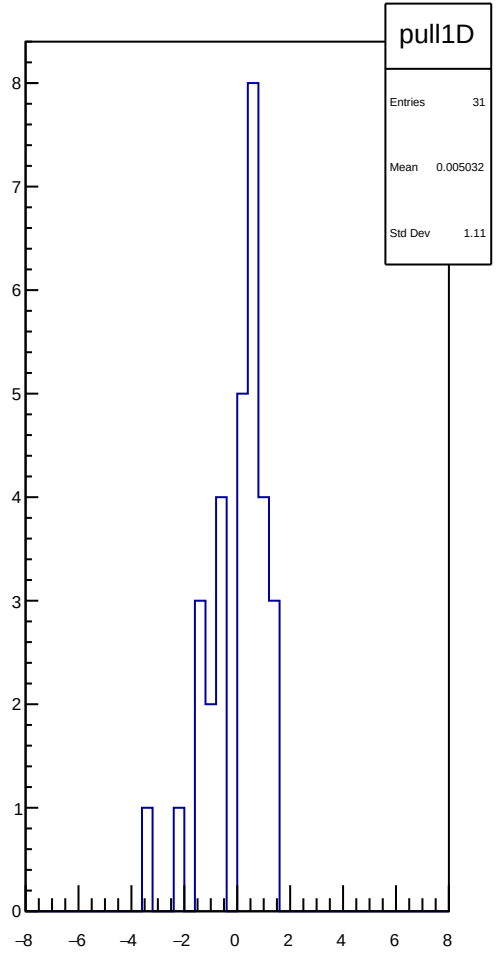

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 39.75 / 30
p0 −1.479e−14 ± 1.146e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

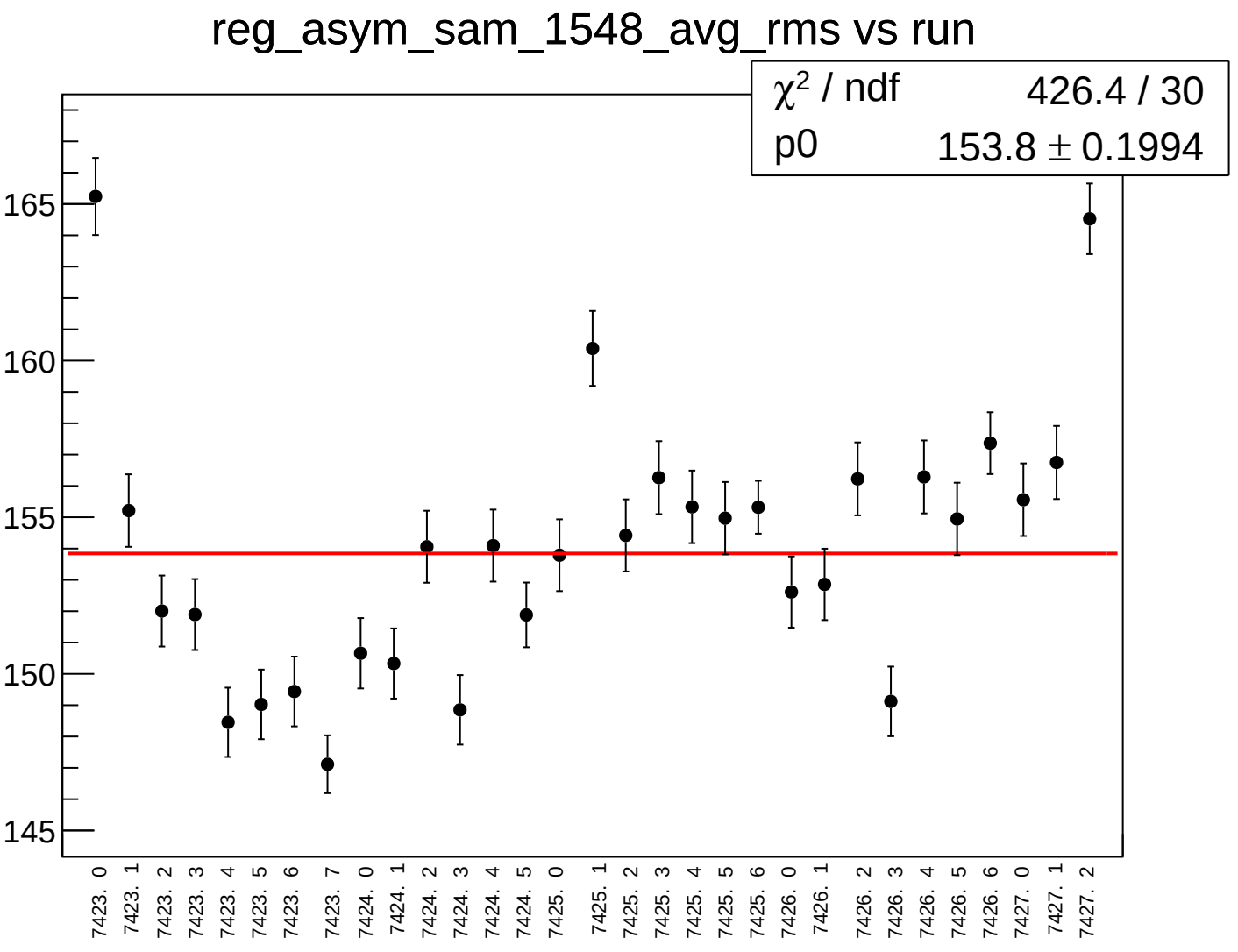

pull
Entries 31
Mean 43.99
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

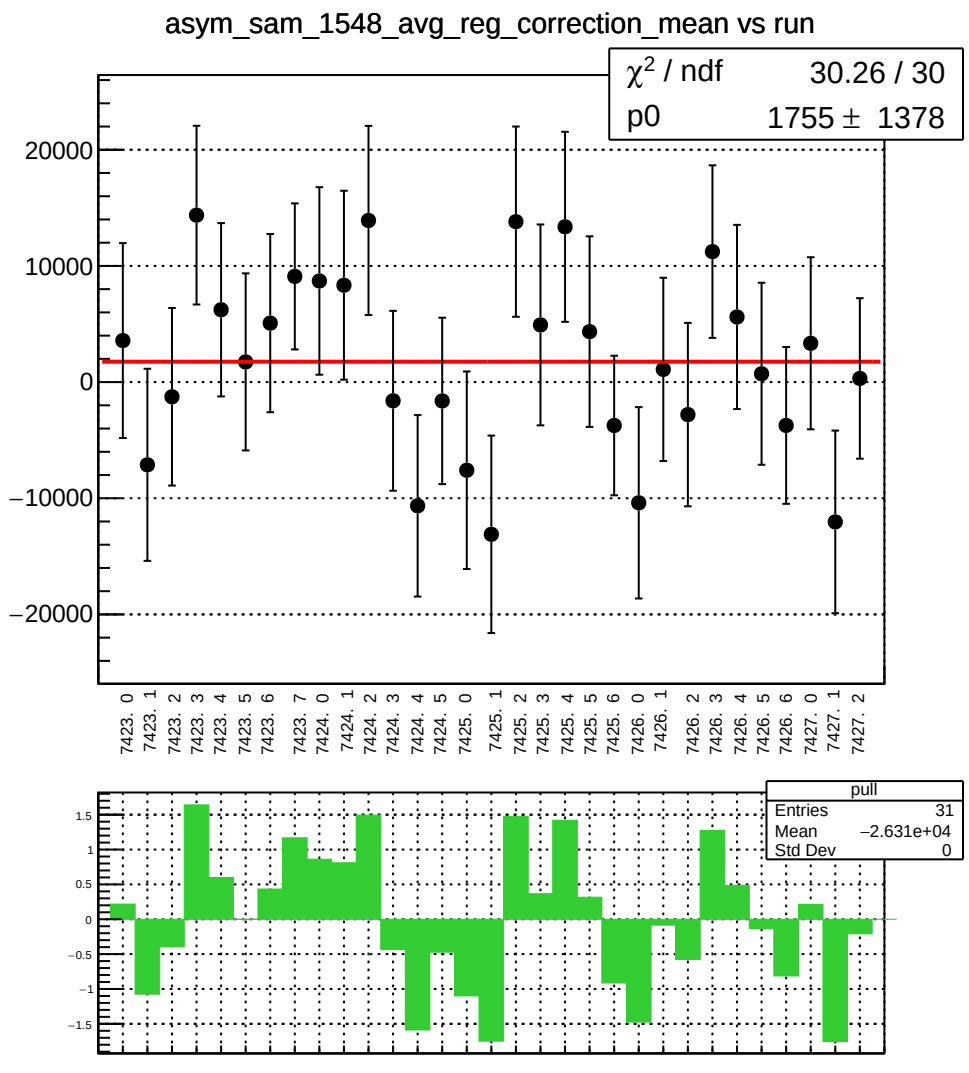

pull1D
Entries 31
Mean −0.01913
Std Dev 1.132
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

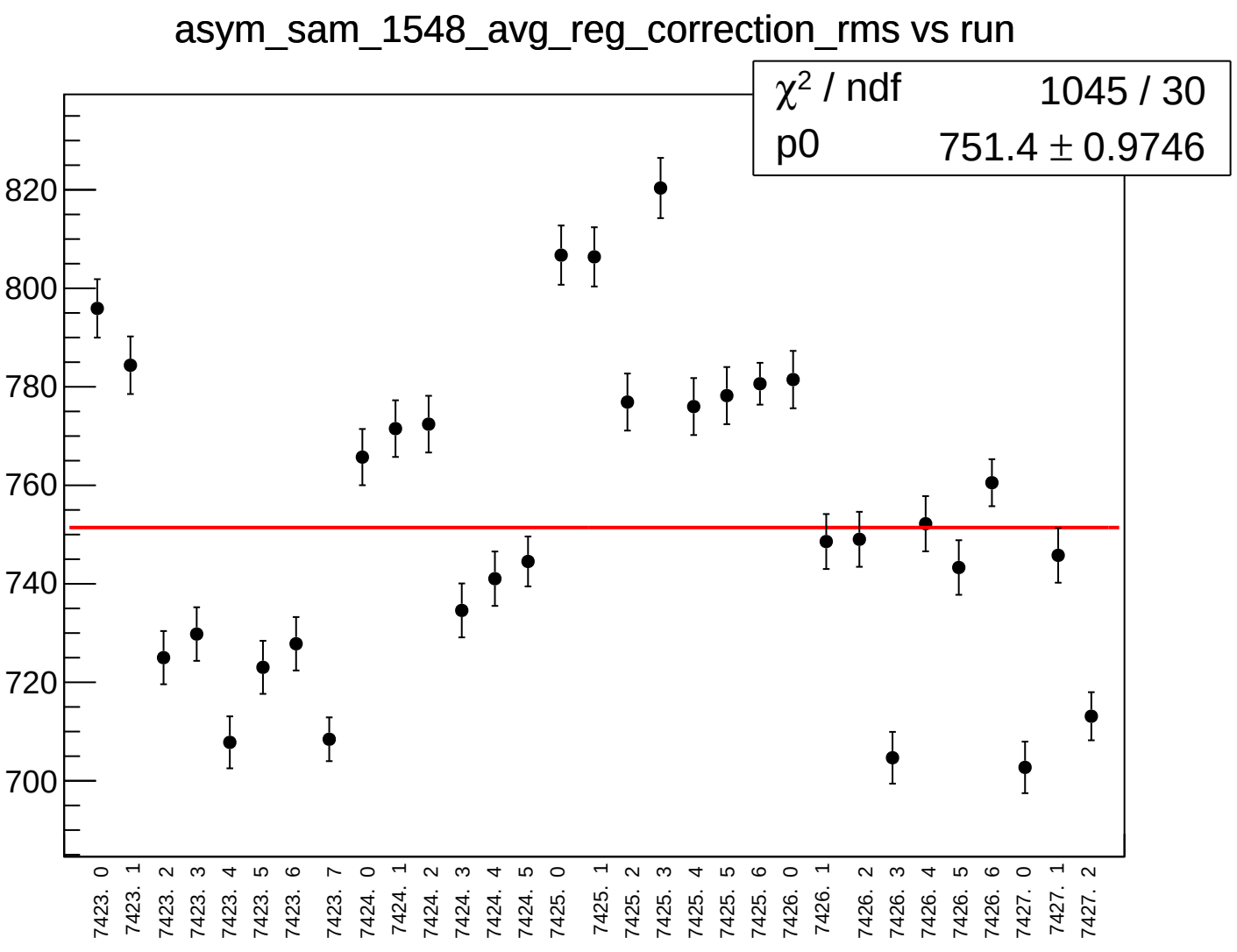

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.153e+05 / 30
p0 4.997e−12 ± 8.106e−15
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

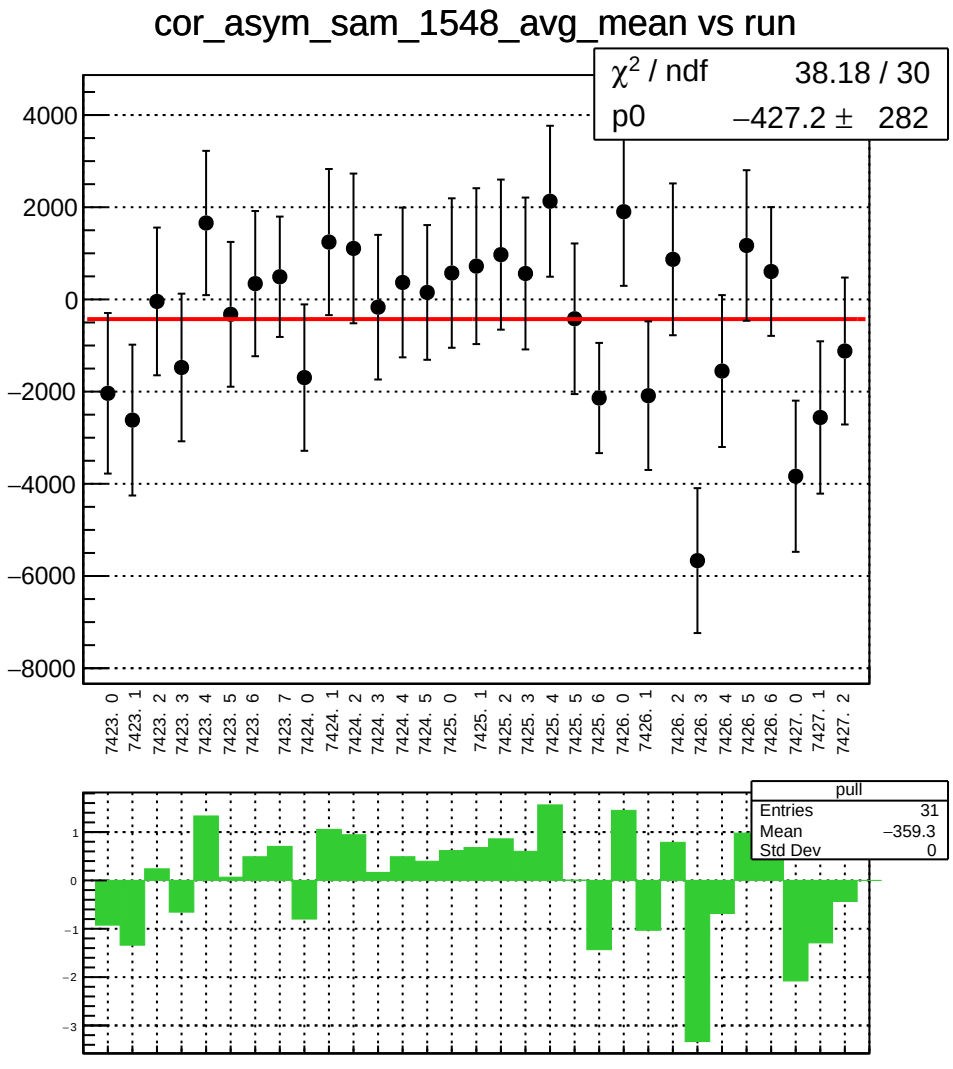

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 38.18 / 30
p0 −427.3 ± 282
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −359
Std Dev 0
1
0
−1
−2
−3

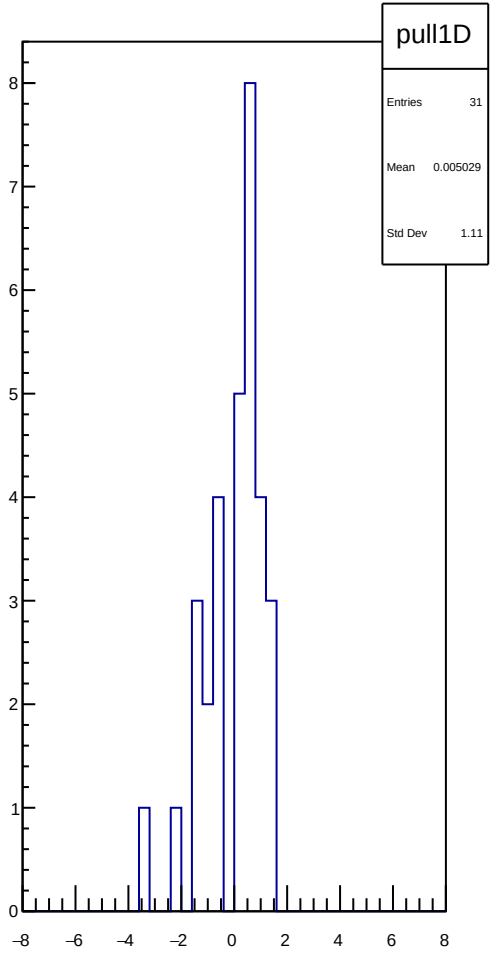

pull1D
Entries 31
Mean 0.005032
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

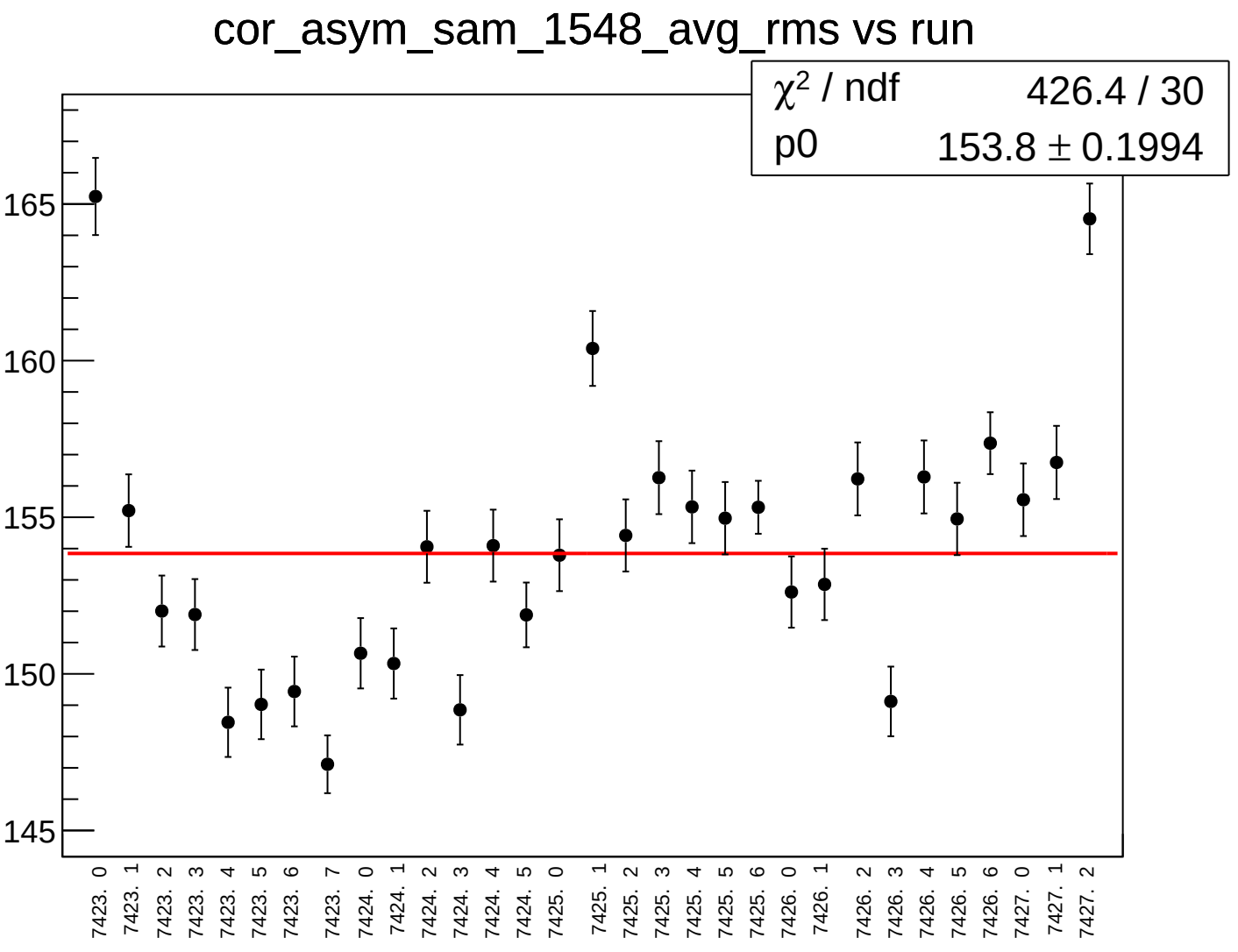

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 426.4 / 30
p0 153.8 ± 0.1994
165
160
155
150
145
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

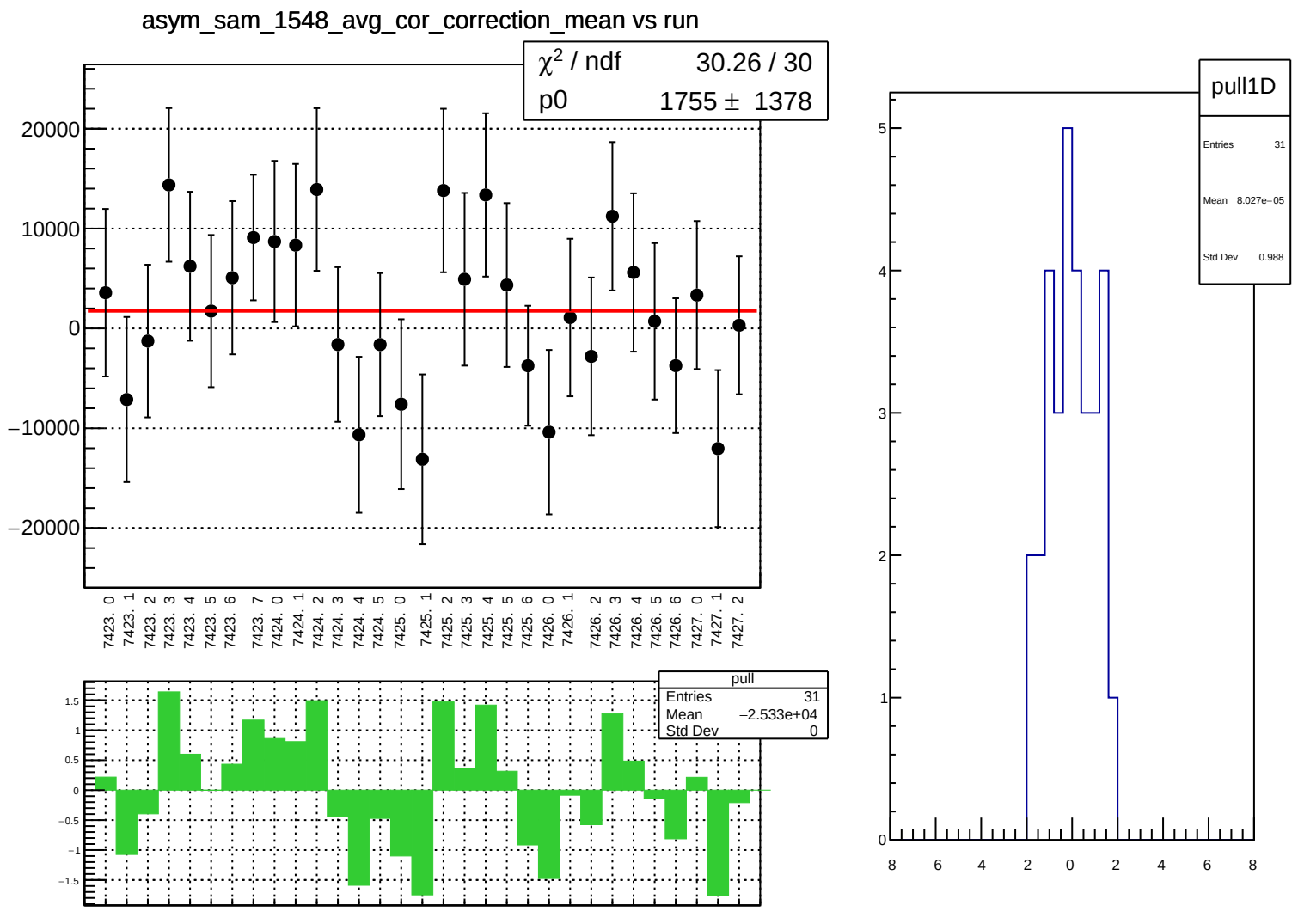

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 30.26 / 30
p0 1755 ± 1378
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −2.631e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 7.726e−05
Std Dev 0.988
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

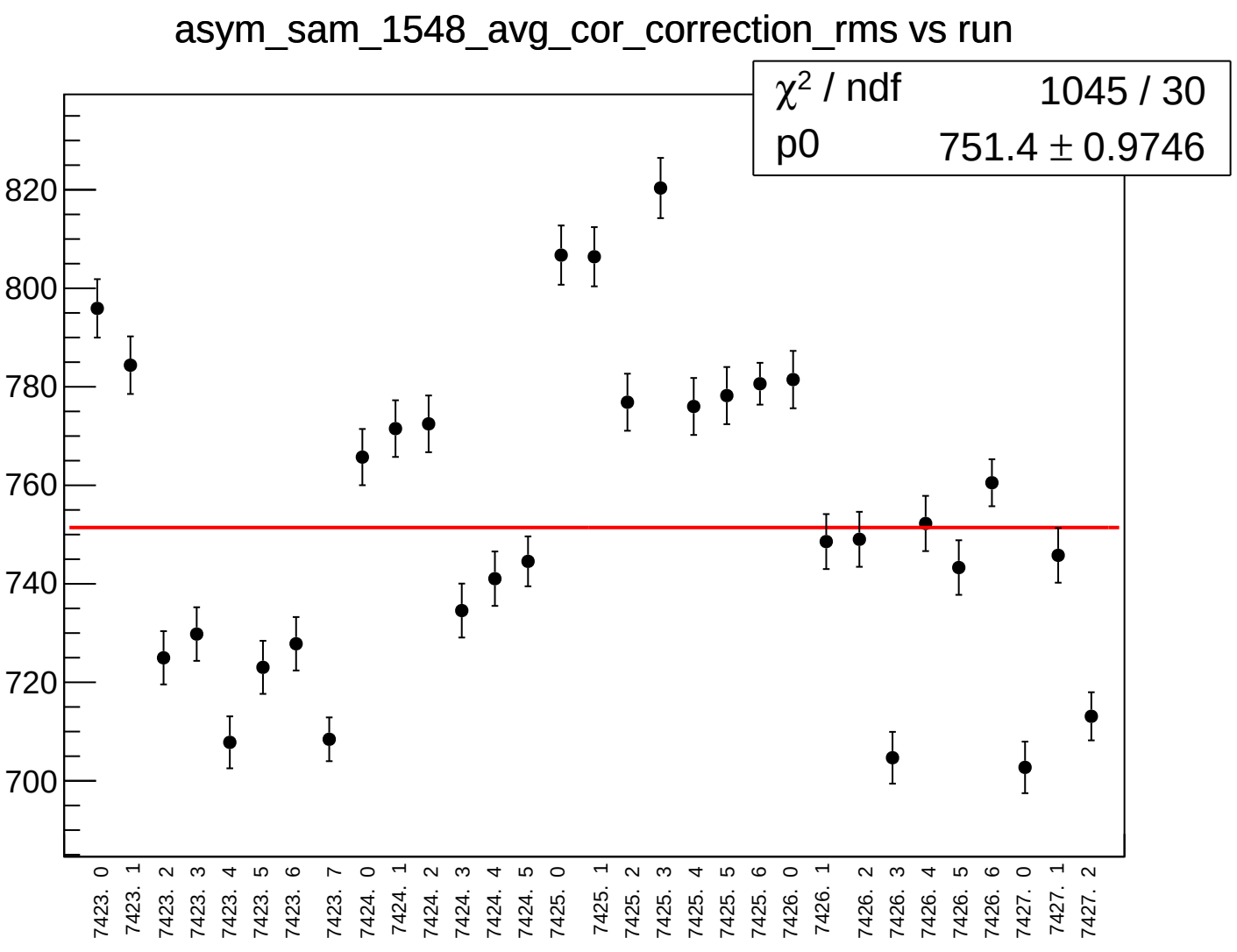

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1045 / 30
p0 751.4 ± 0.9746
820
800
780
760
740
720
700
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

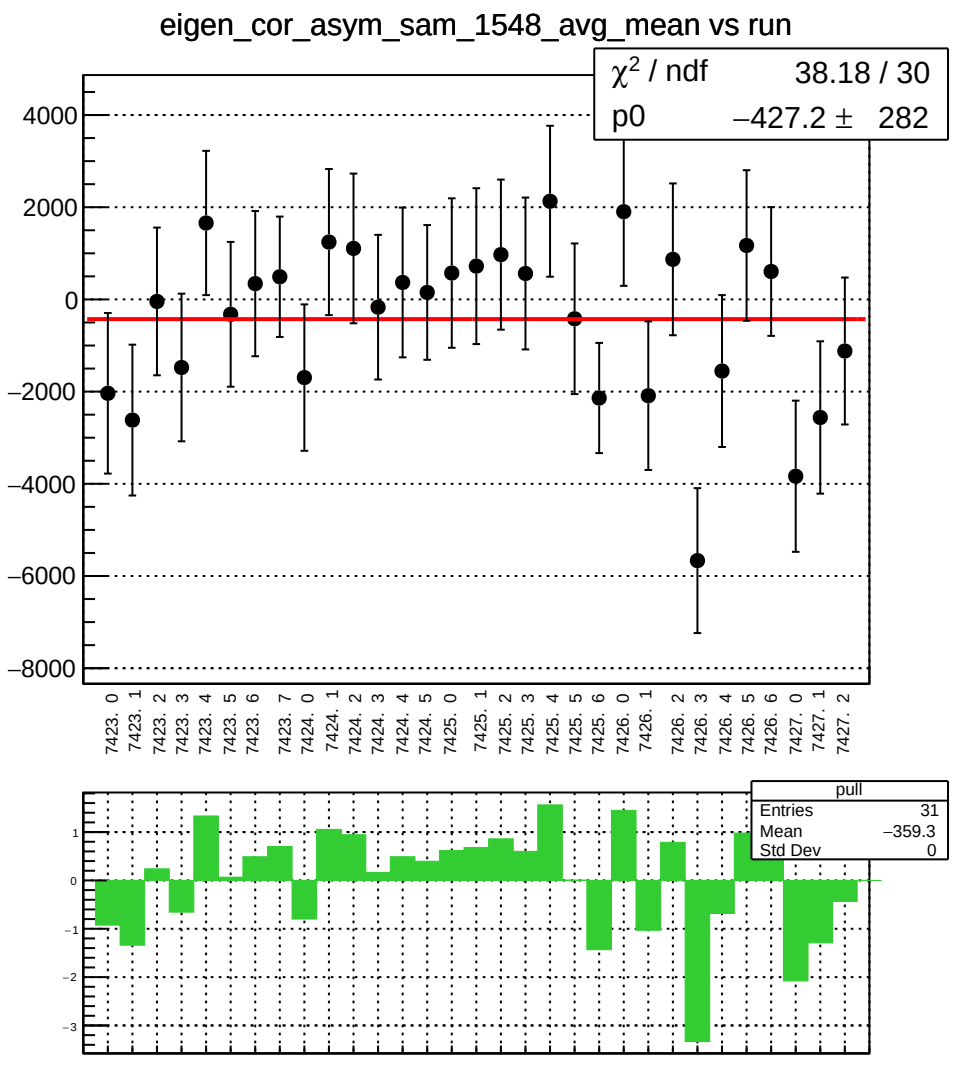

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 38.18 / 30
p0 −427.2 ± 282
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −359.3
Std Dev 0
1
0
−1
−2
−3

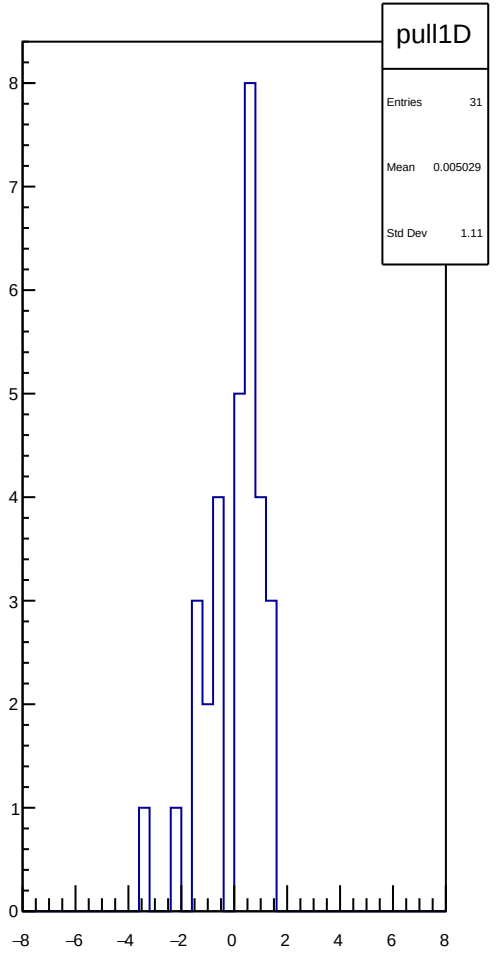

pull1D
Entries 31
Mean 0.005029
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

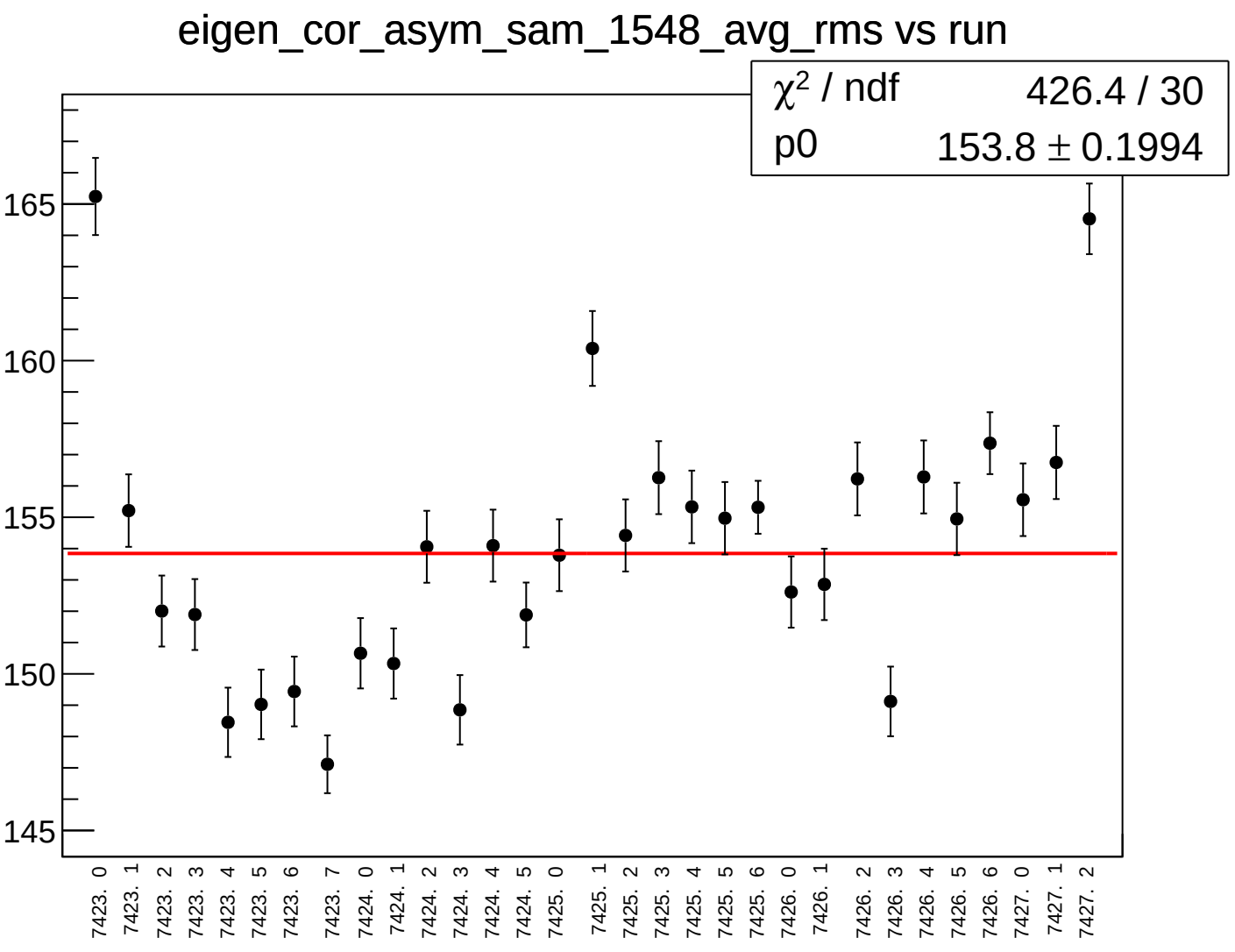

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 426.4 / 30
p0 153.8 ± 0.1994
165
160
155
150
145
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

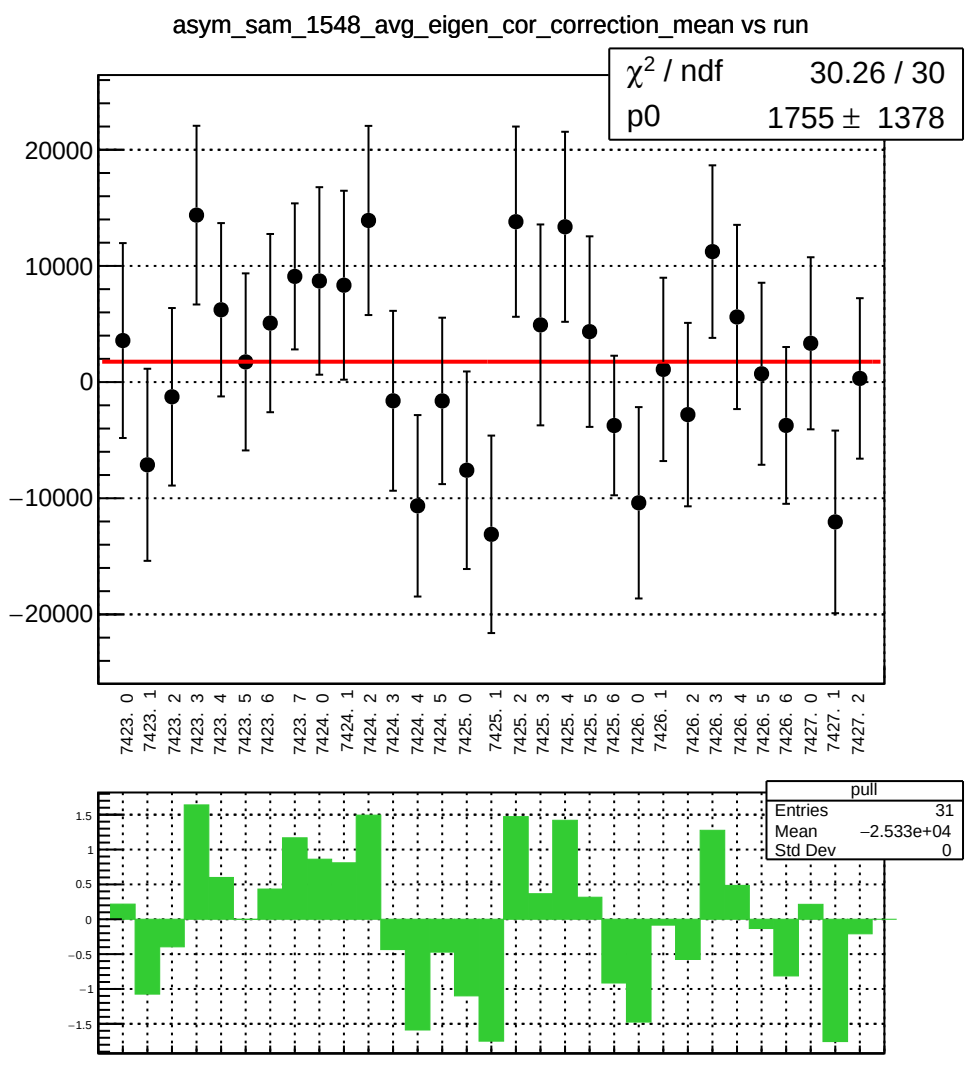

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 30.26 / 30
p0 1755 ± 1378
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −2.533e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 8.027e−05
Std Dev 0.988
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

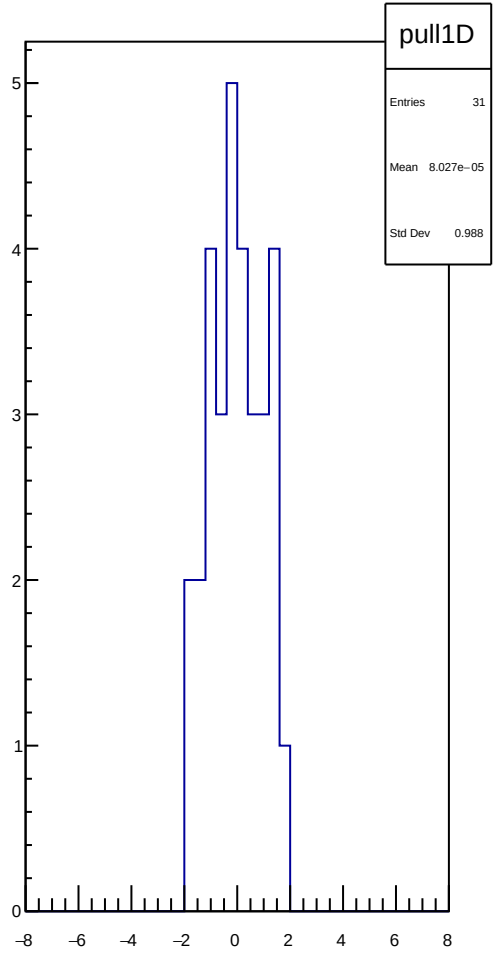

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1045 / 30
p0 751.4 ± 0.9746
820
800
780
760
740
720
700
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

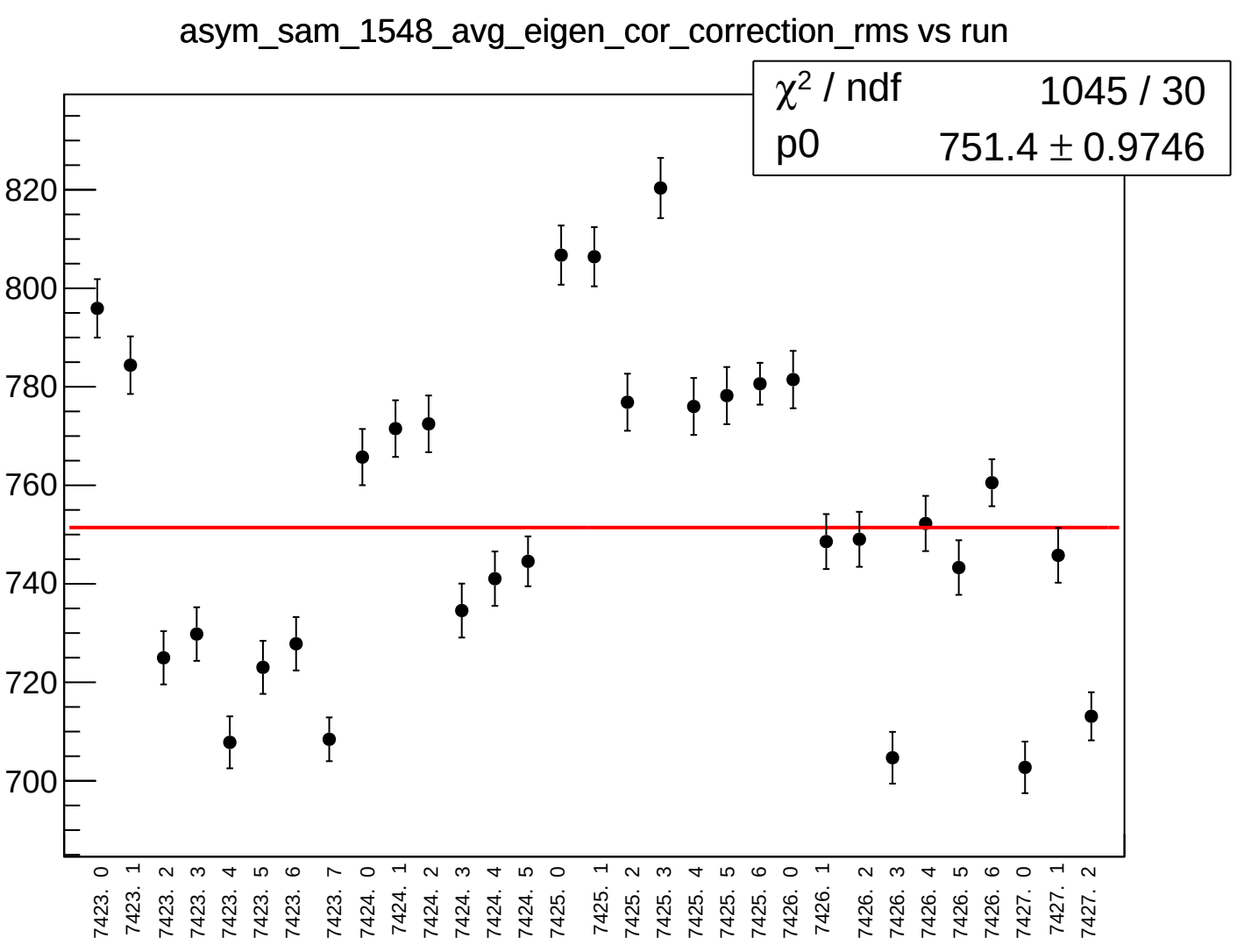

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 38.18 / 30
p0 −427.2 ± 282
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −359.3
Std Dev 0
1
0
−1
−2
−3

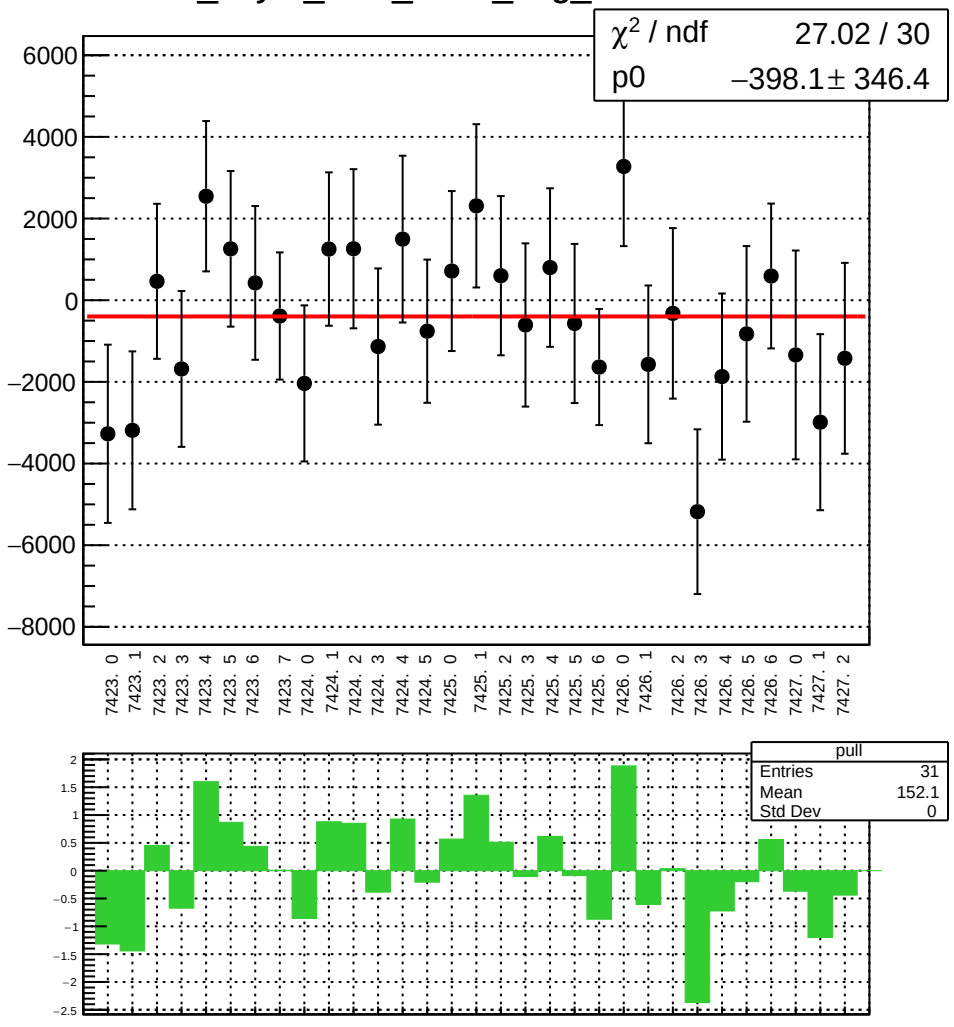

pull1D
Entries 31
Mean 0.005029
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

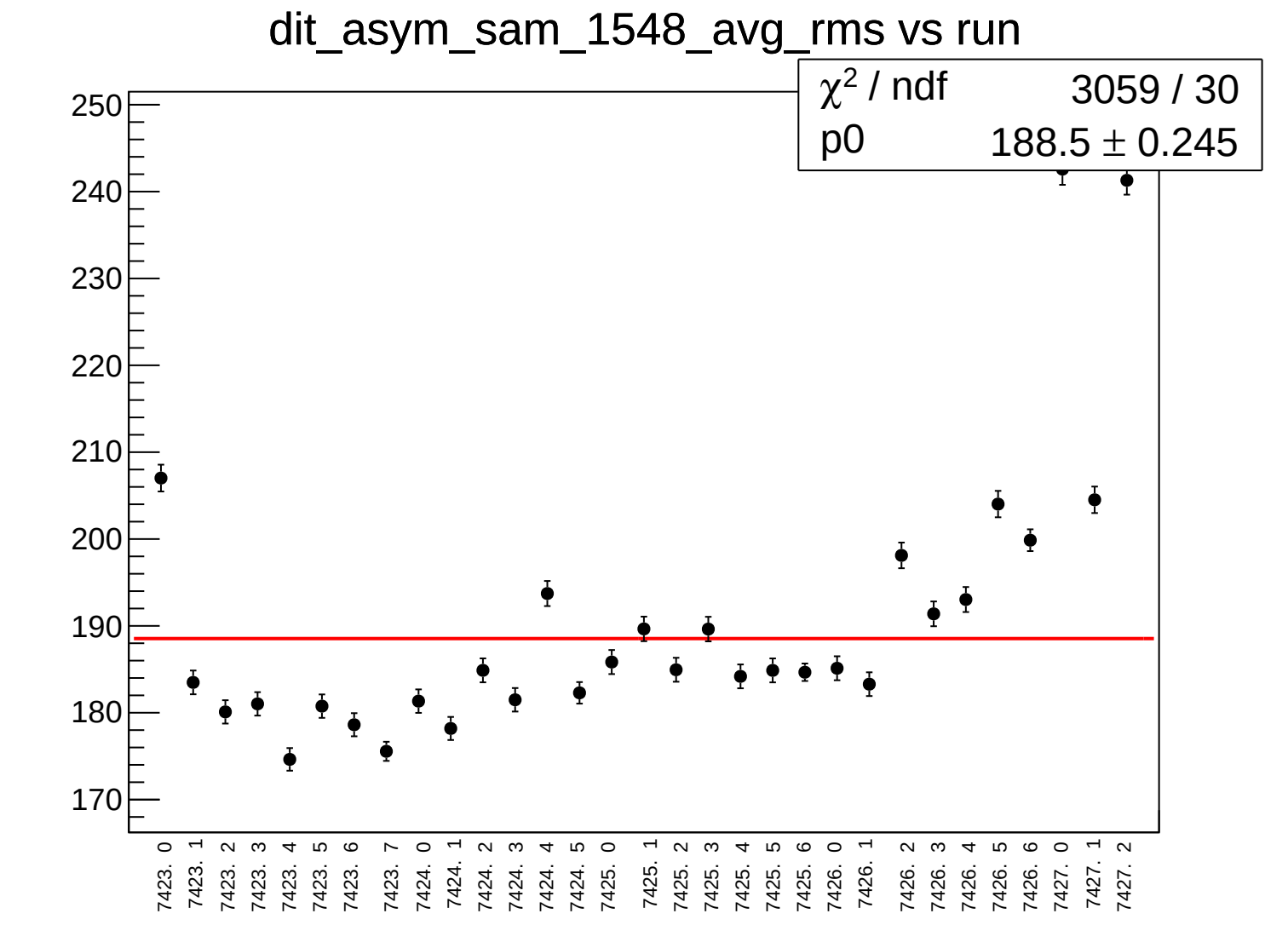

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 426.4 / 30
p0 153.8 ± 0.1994
165
160
155
150
145
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

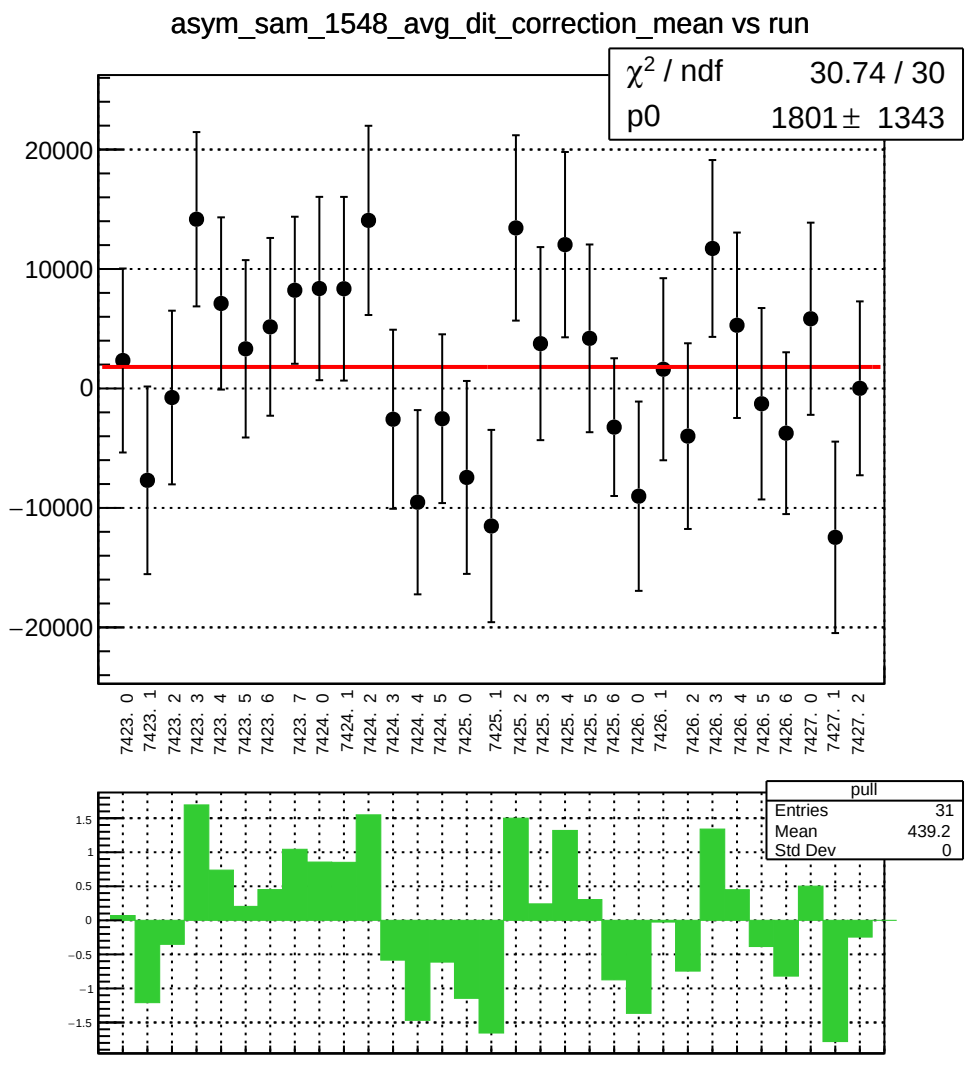

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 30.26 / 30
p0 1755 ± 1378
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −2.533e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

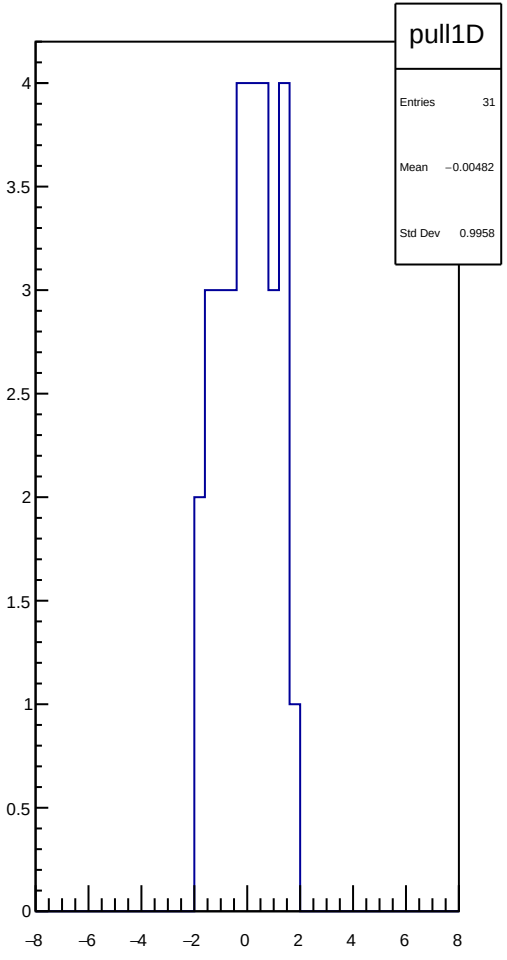

pull1D
Entries 31
Mean 8.027e−05
Std Dev 0.988
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

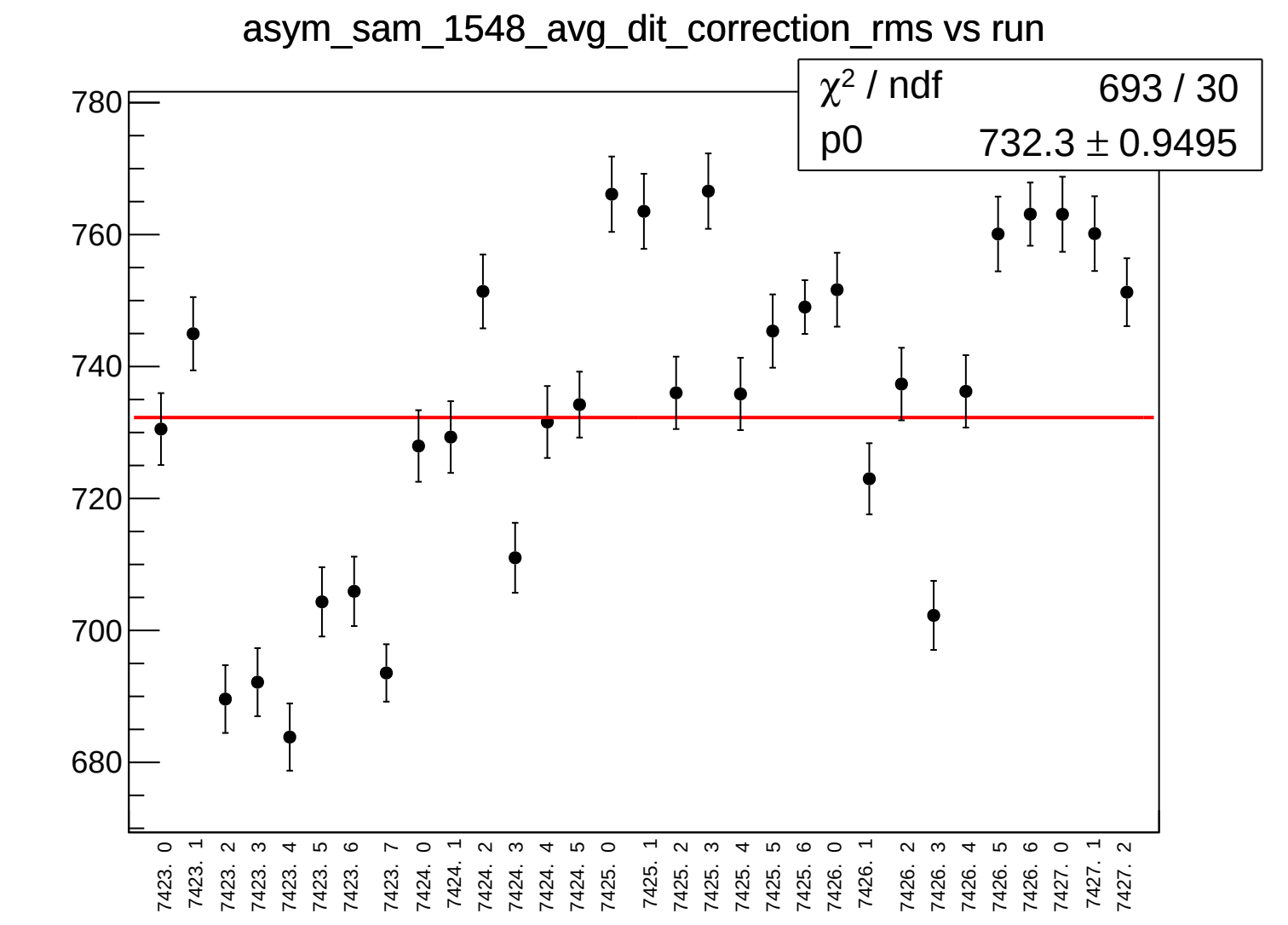

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1045 / 30
p0 751.4 ± 0.9746
820
800
780
760
740
720
700
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

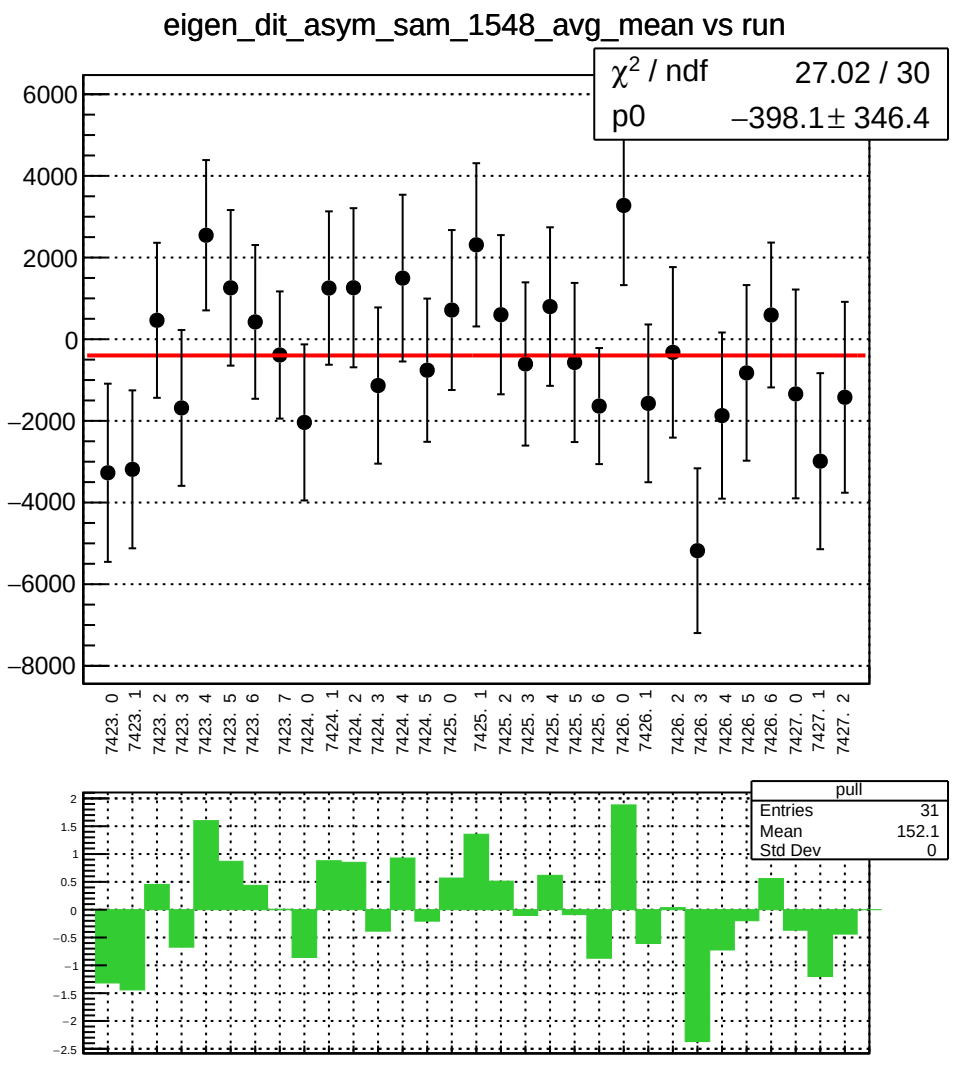

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 27.02 / 30
p0 −398.1± 346.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 152.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.00957
Std Dev 0.9336
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

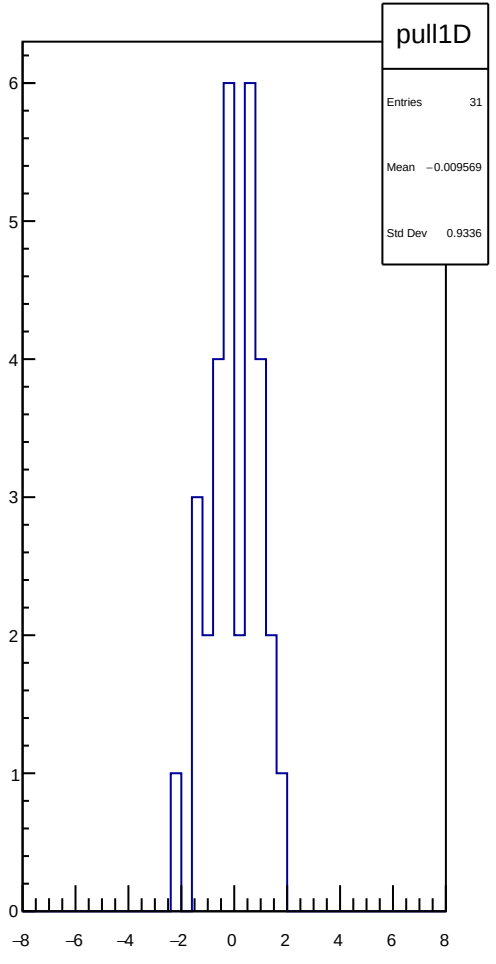

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 3059 / 30
p0 188.5 ± 0.245
250
240
230
220
210
200
190
180
170
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 30.74 / 30
p0 1801 ± 1343
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 439.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean −0.00482
Std Dev 0.9958
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 693 / 30
p0 732.3 ± 0.9495
780
760
740
720
700
680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 27.02 / 30
p0 −398.1± 346.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 152.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 31
Mean −0.009569
Std Dev 0.9336
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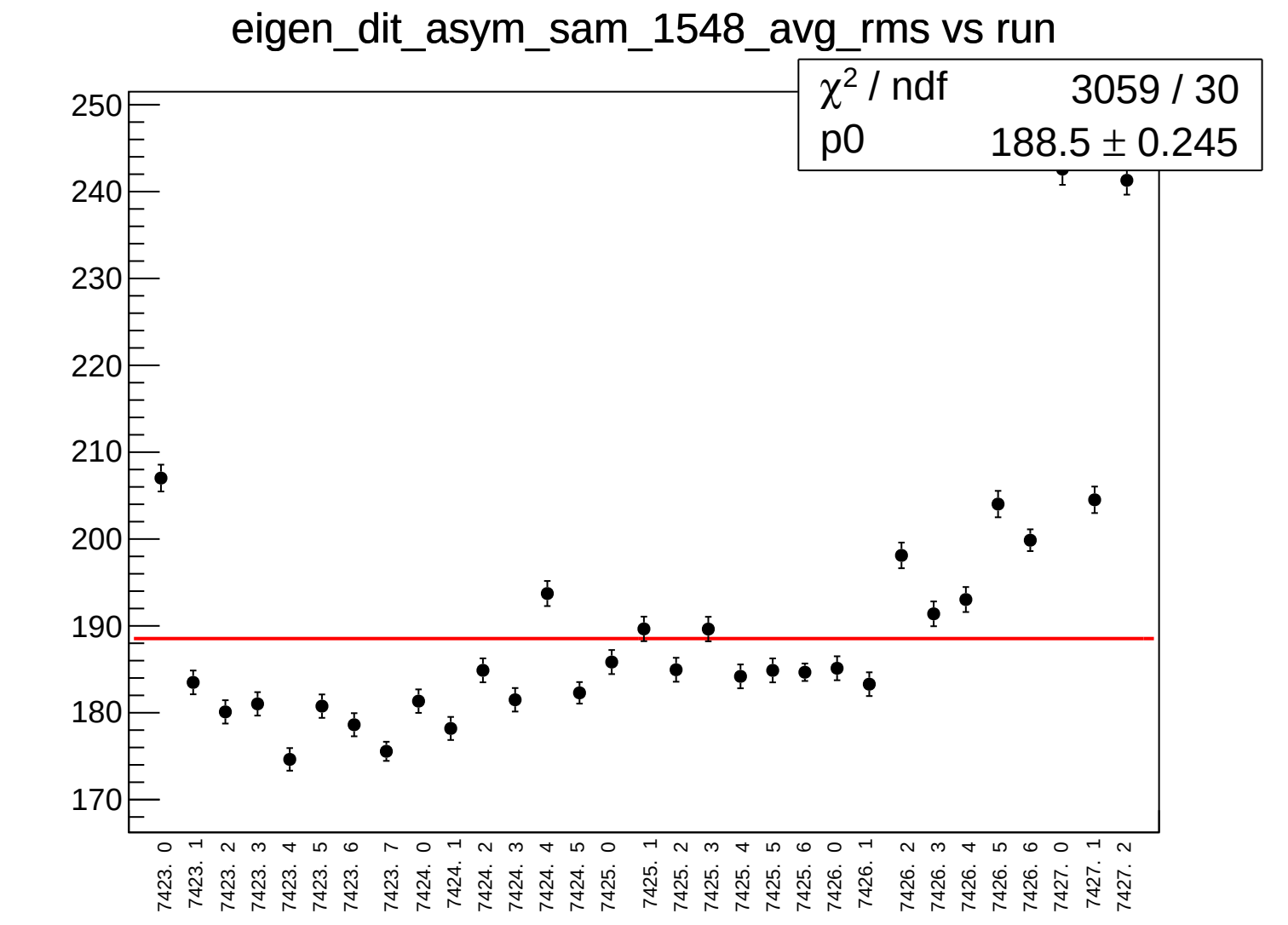
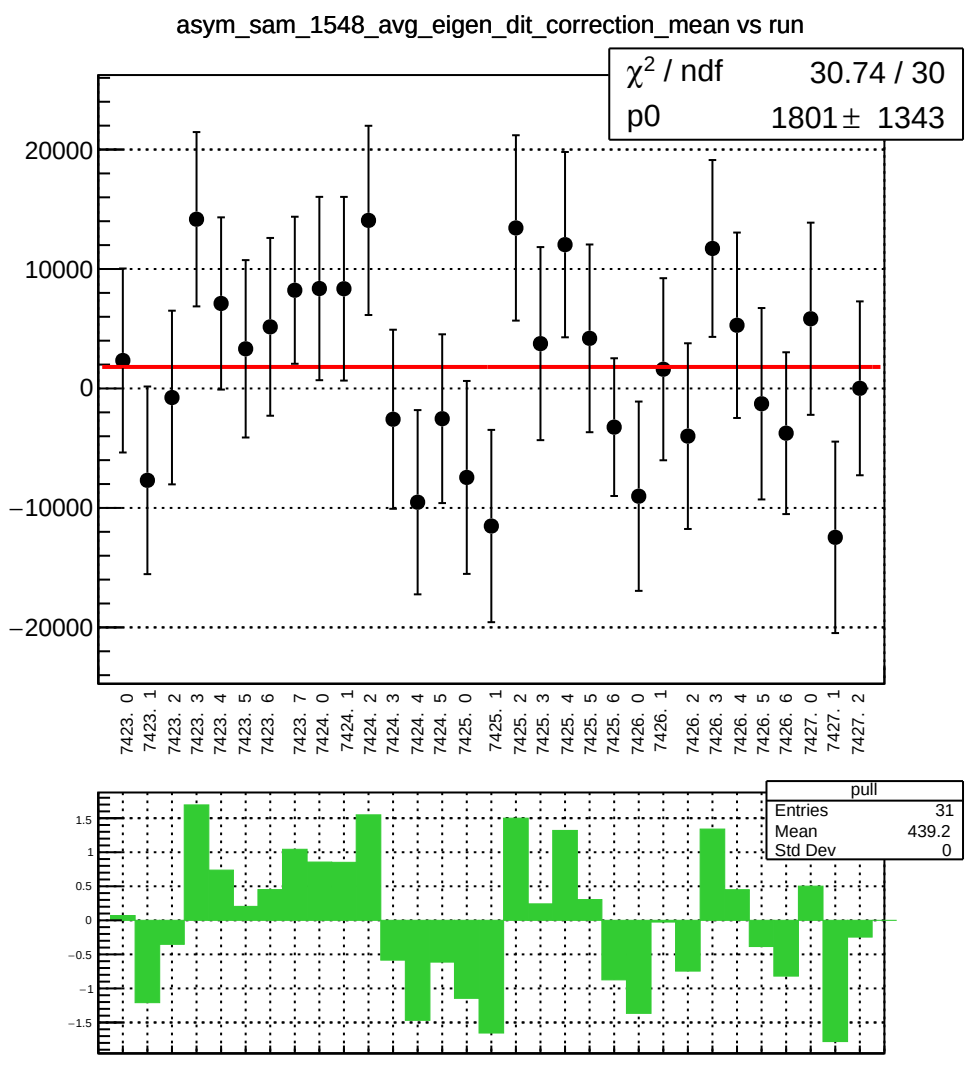
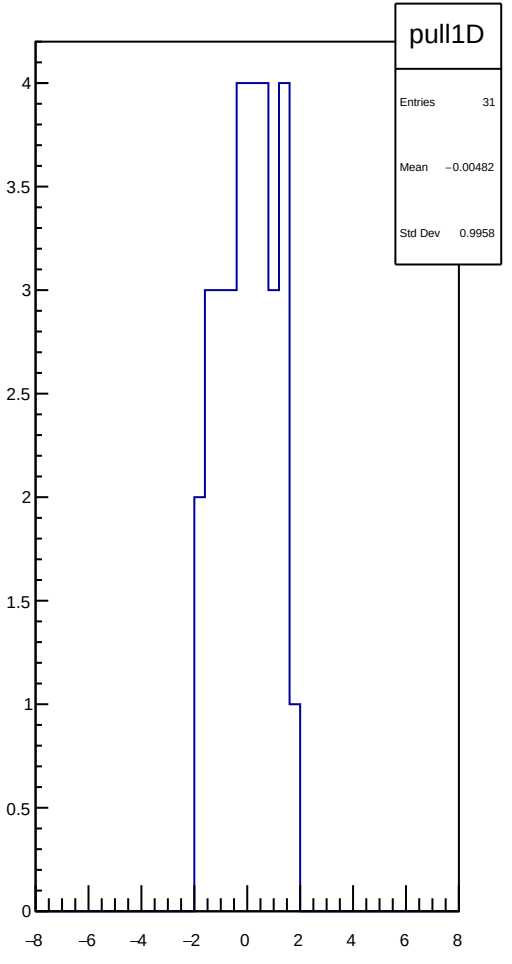
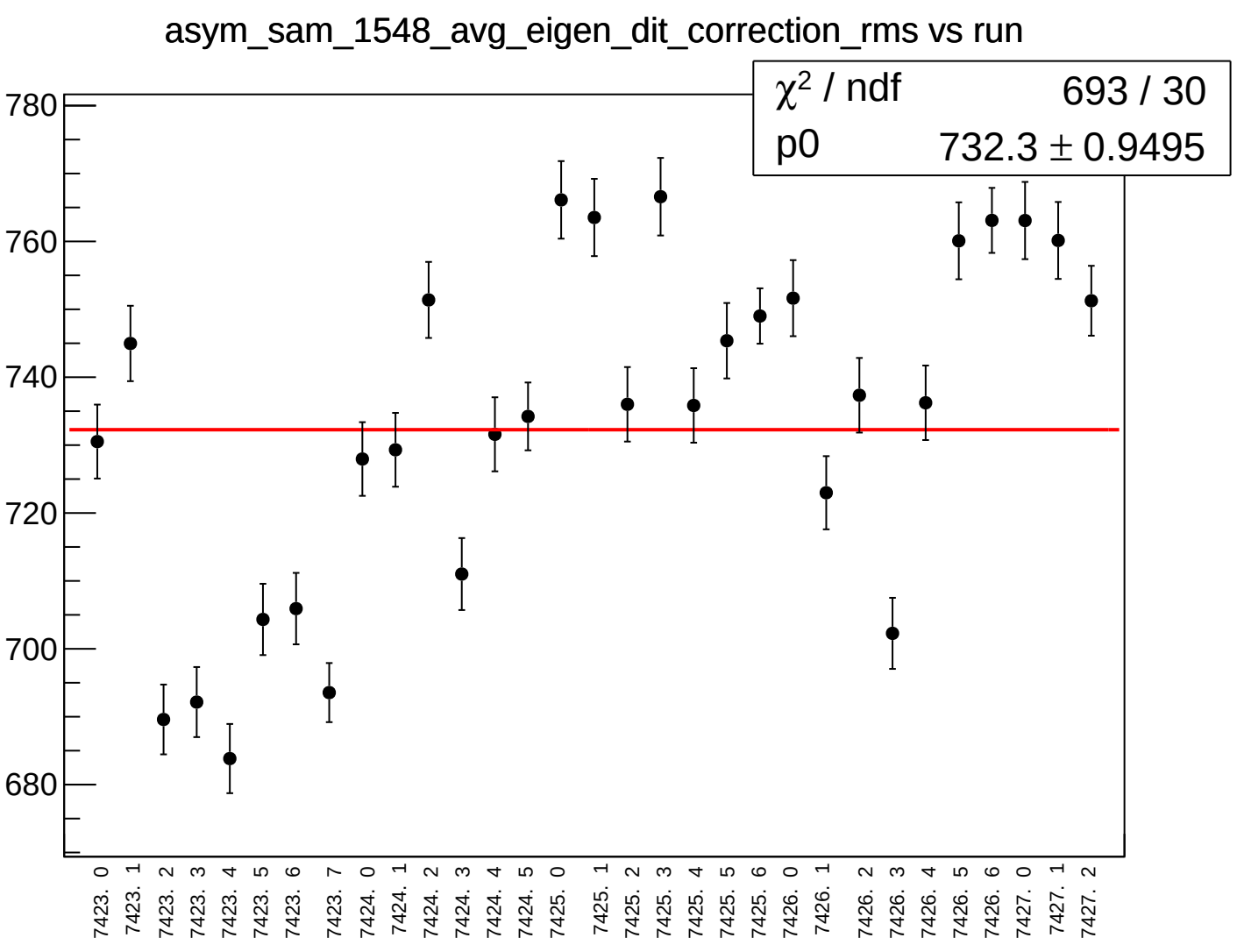
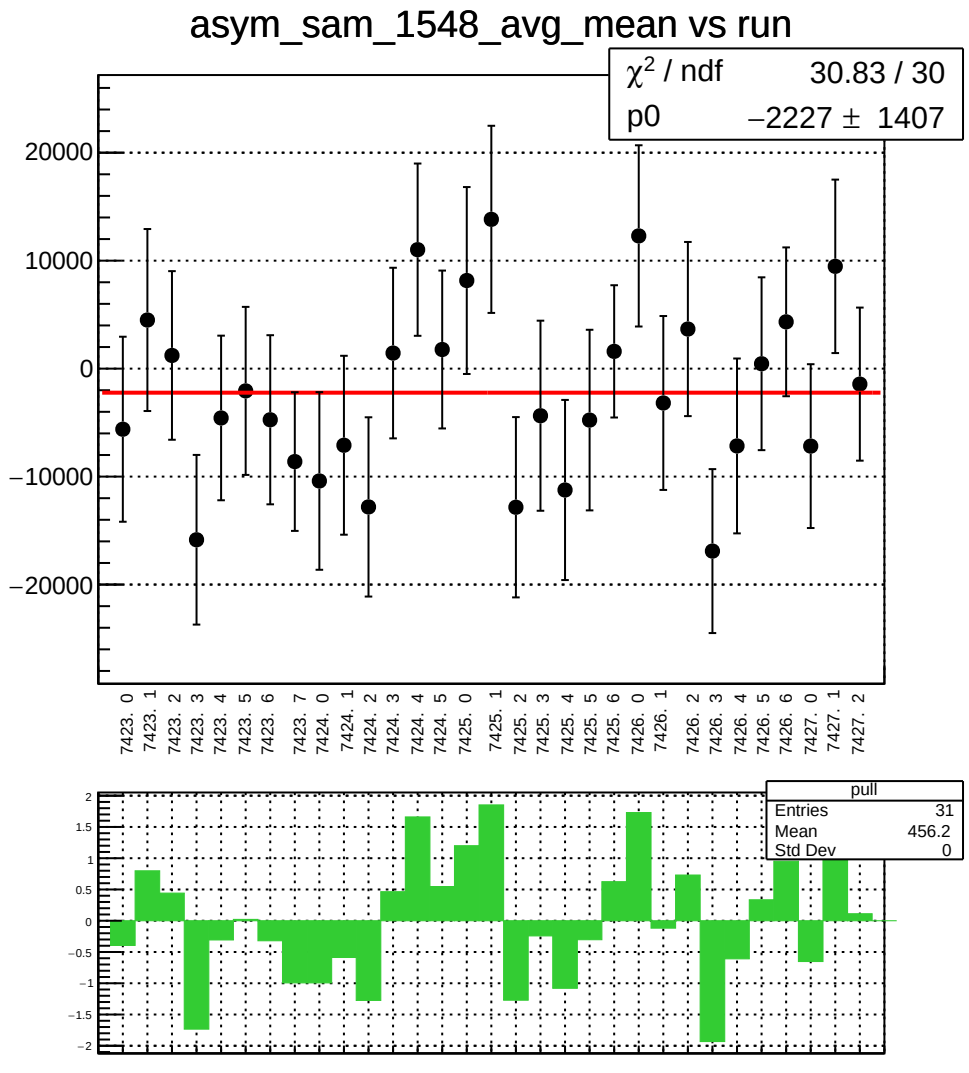
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

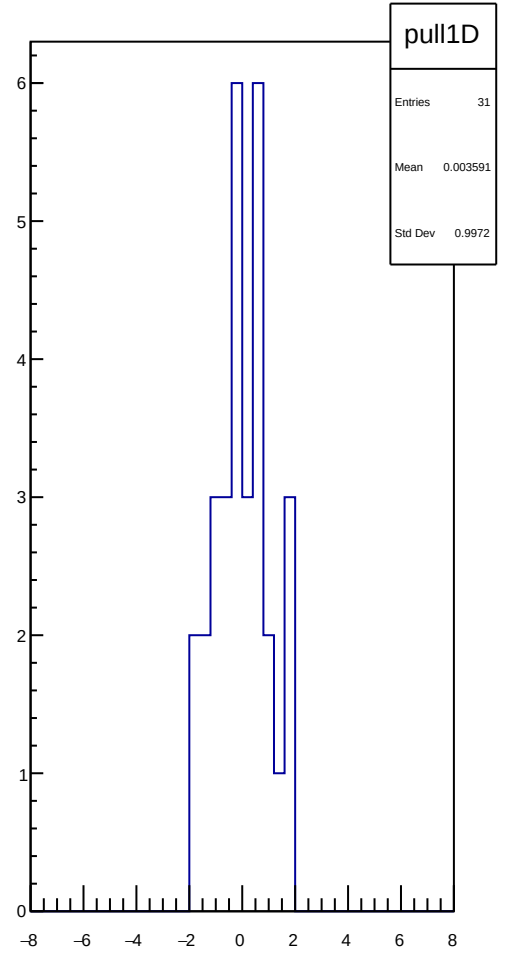

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 3059 / 30
p0 188.5 ± 0.245
250
240
230
220
210
200
190
180
170
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

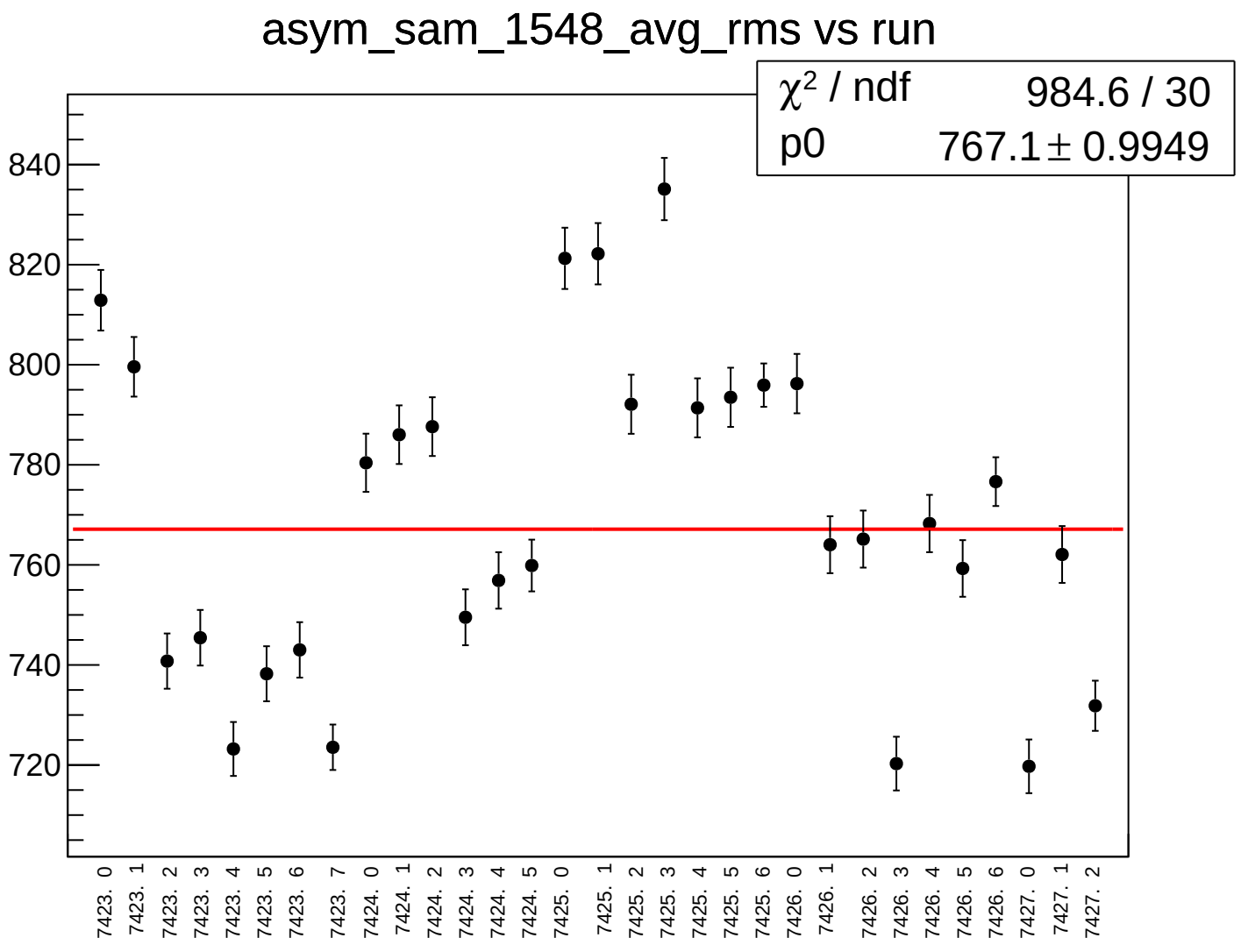

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 30.74 / 30
p0 1801 ± 1343
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 439.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

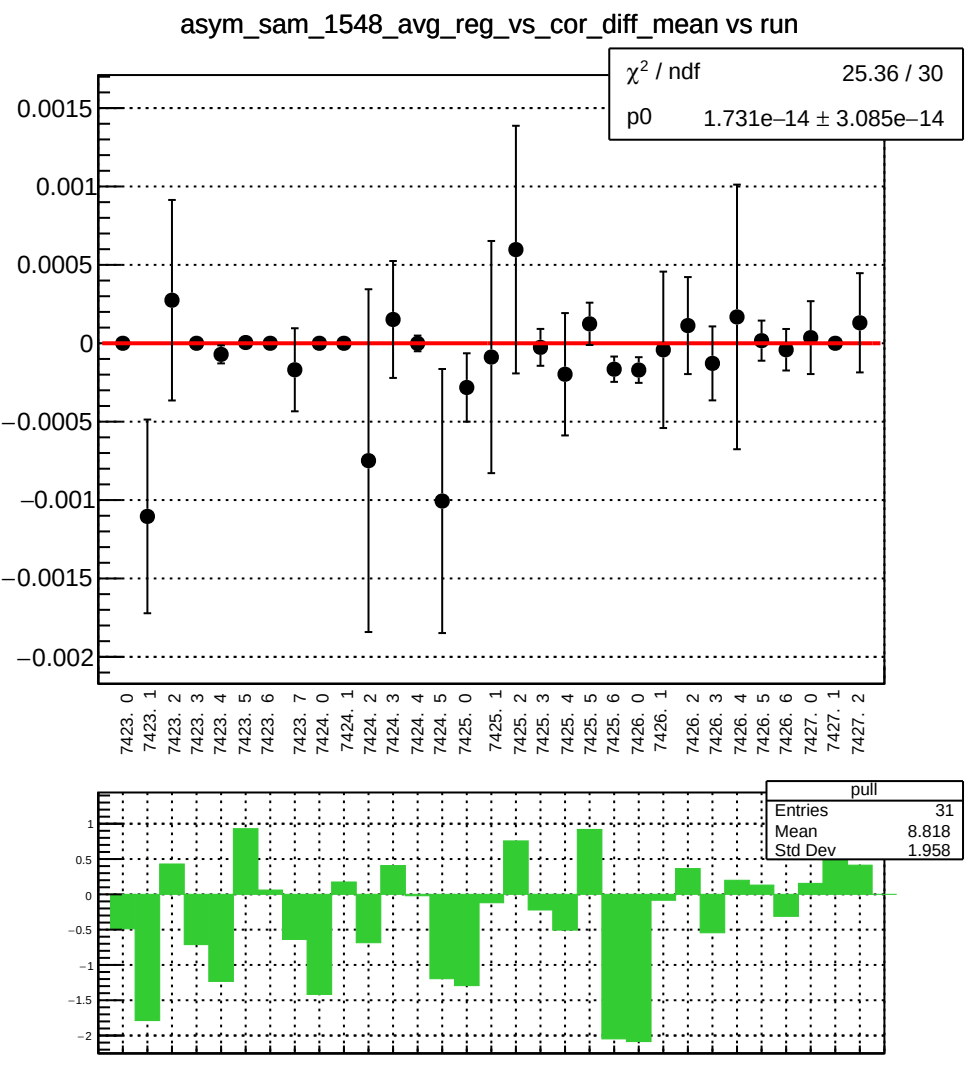

pull1D
Entries 31
Mean −0.00482
Std Dev 0.9958
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

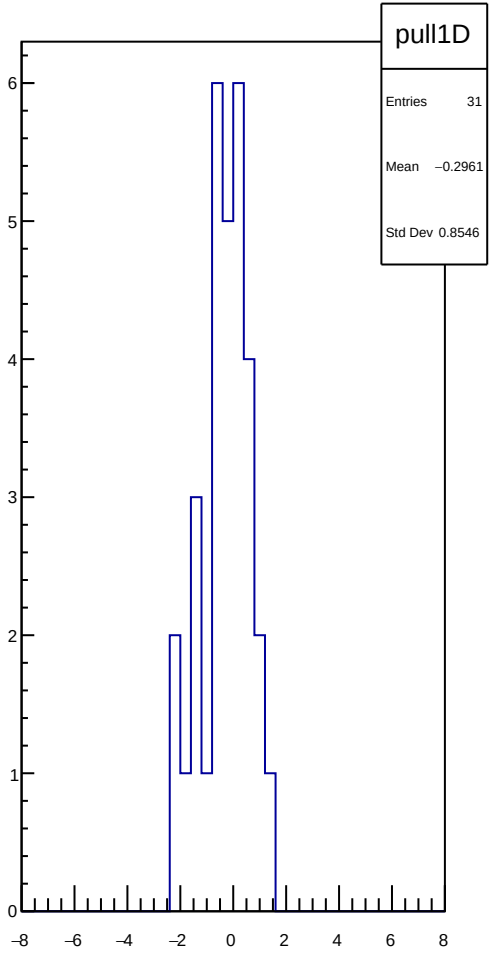

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 693 / 30
p0 732.3 ± 0.9495
780
760
740
720
700
680
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

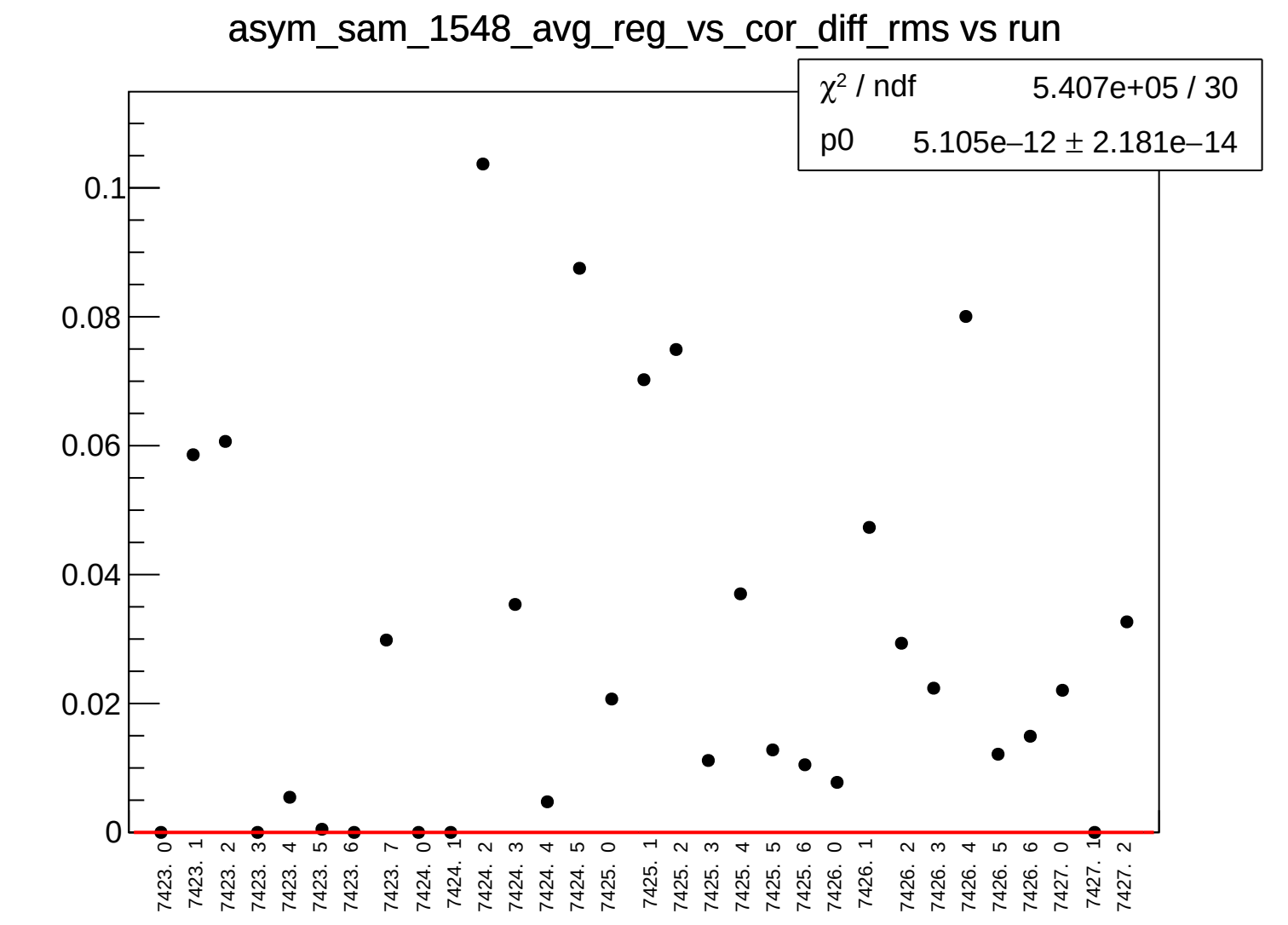

asym_sam_1548_avg_mean vs run
χ² / ndf 30.83 / 30
p0 −2227 ± 1407
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 456.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

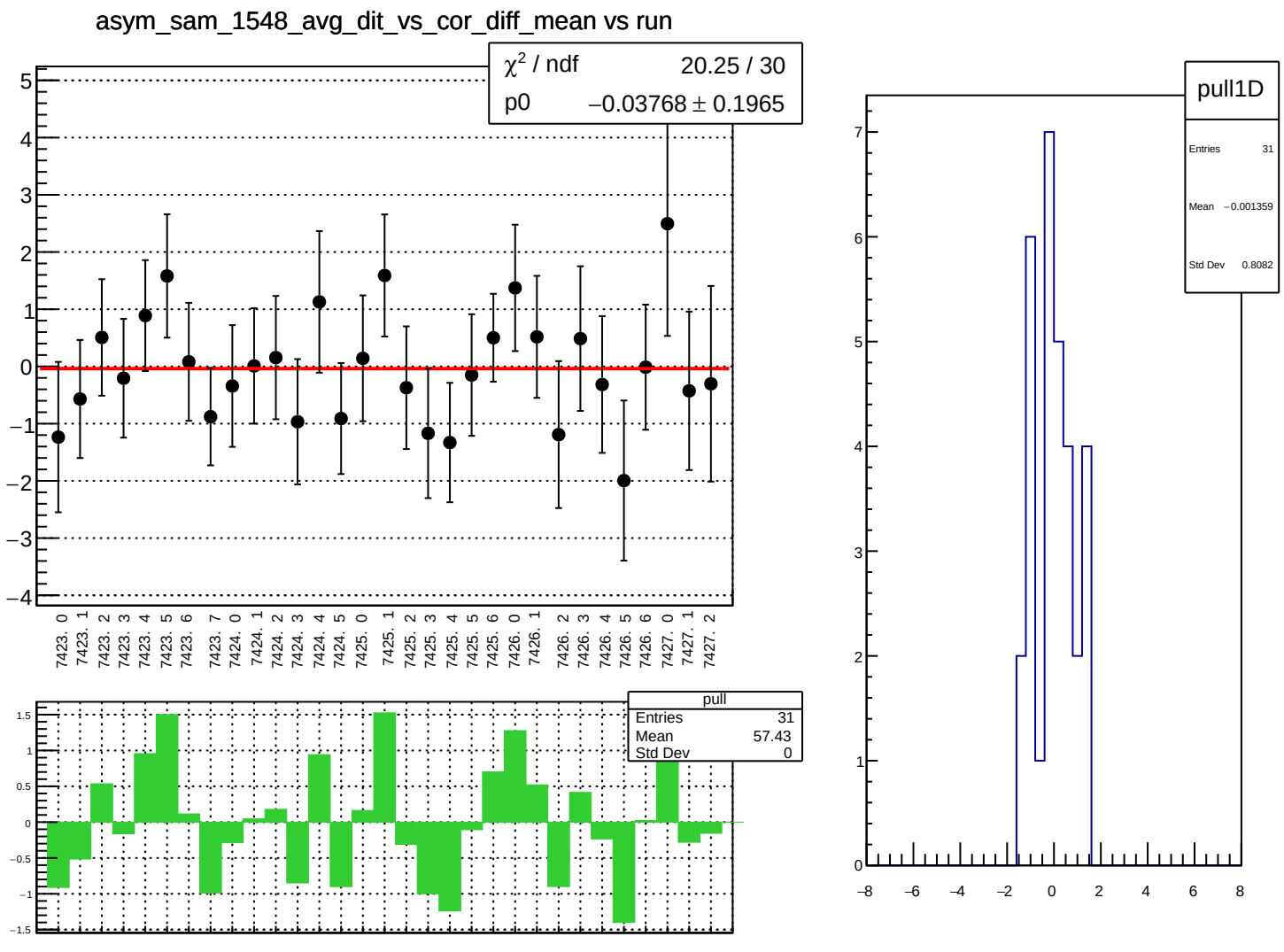

pull1D
Entries 31
Mean 0.003591
Std Dev 0.9972
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

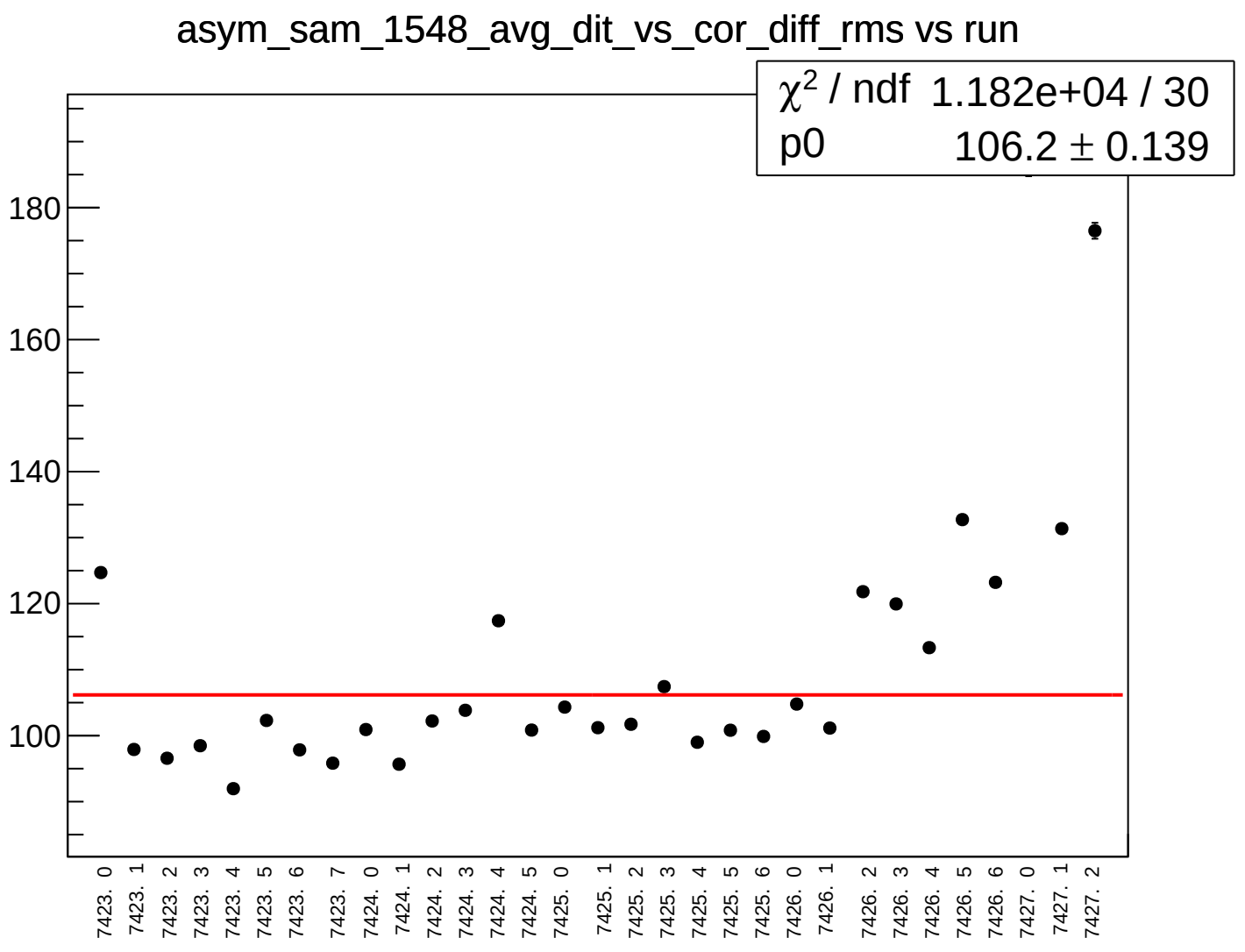

asym_sam_1548_avg_rms vs run
χ² / ndf 984.6 / 30
p0 767.1 ± 0.9949
840
820
800
780
760
740
720
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

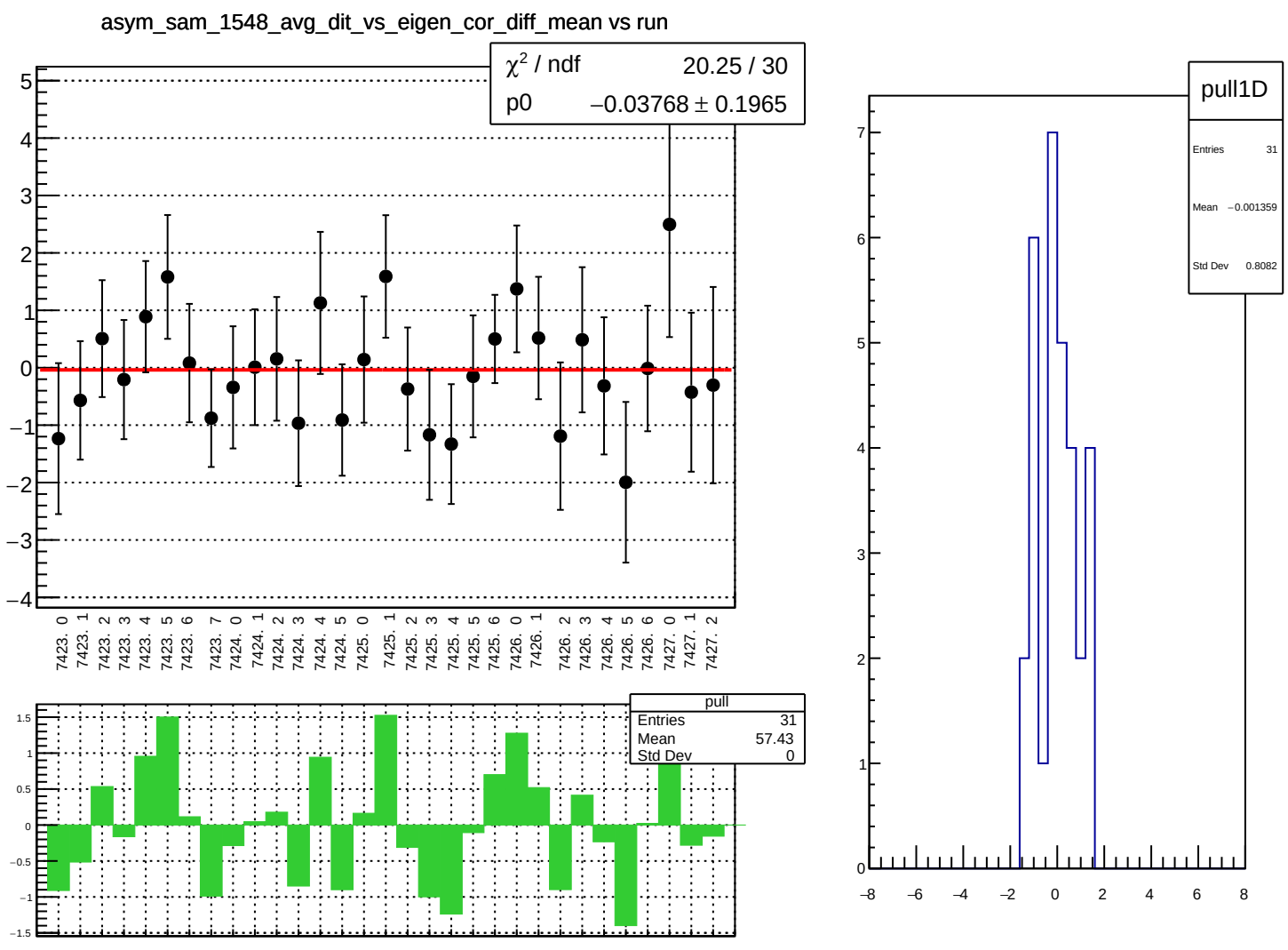

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.36 / 30
p0 1.731e−14 ± 3.085e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.818
Std Dev 1.958
1
0.5
0
−0.5
−1
−1.5
−2

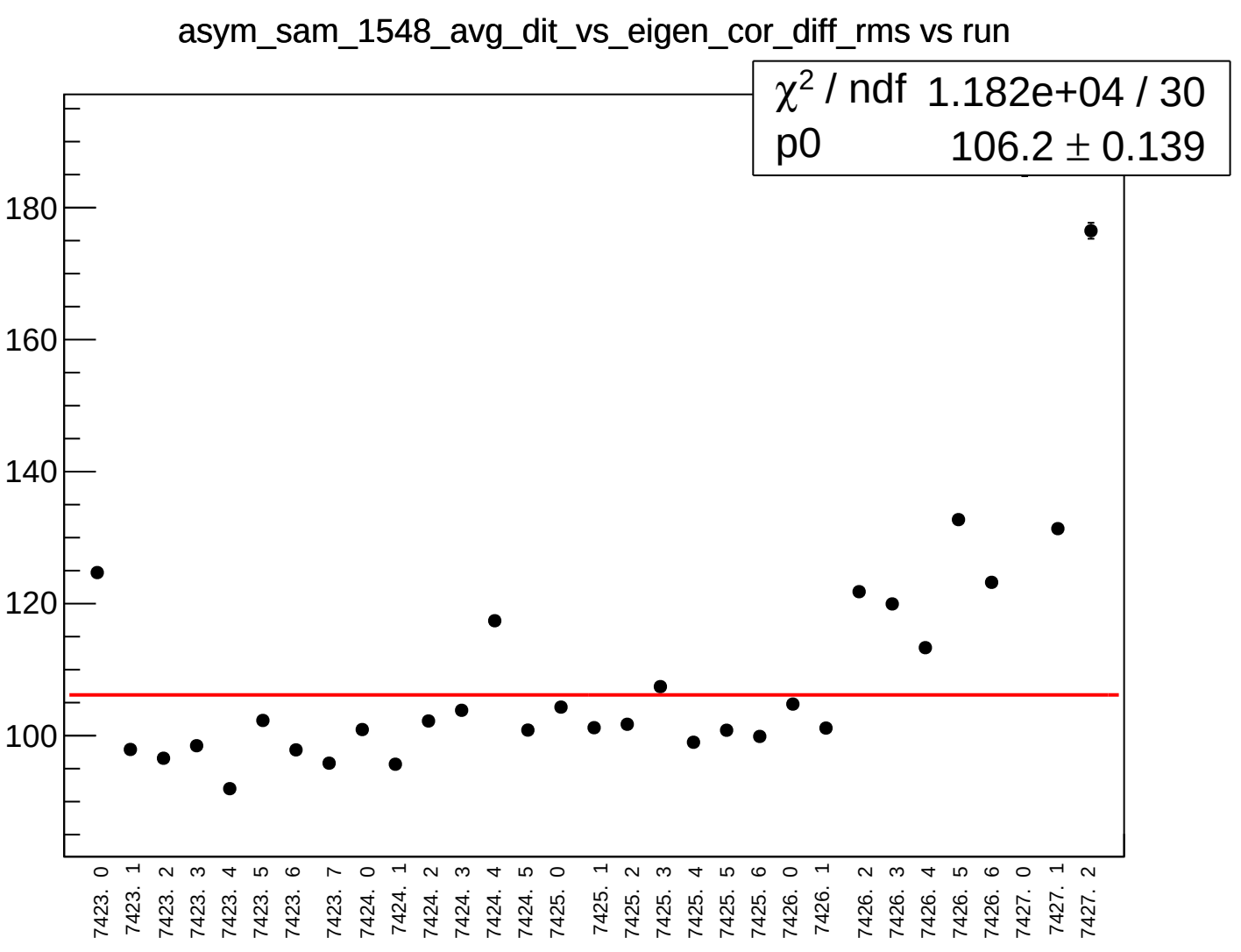

pull1D
Entries 31
Mean −0.2961
Std Dev 0.8546
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

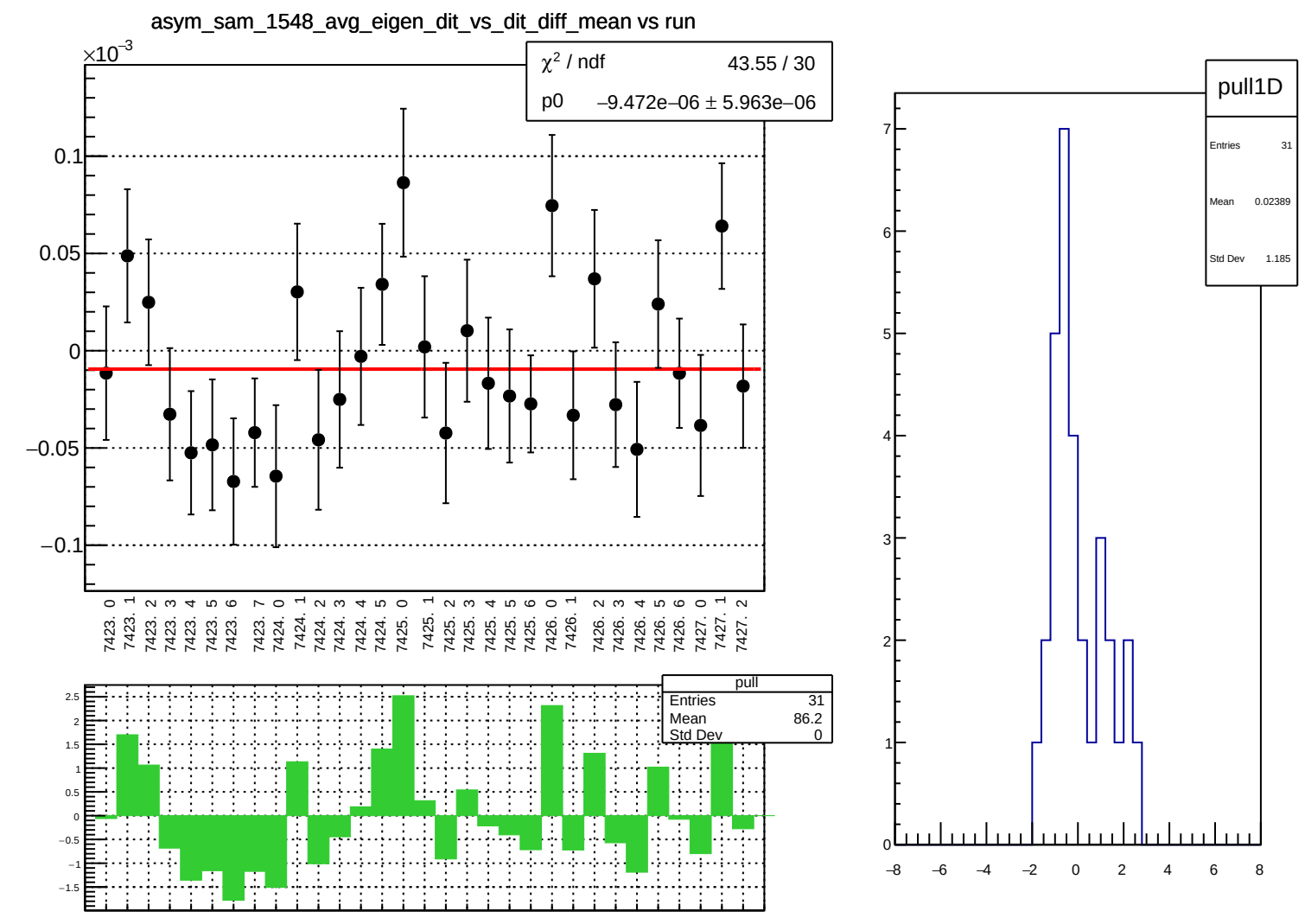

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.407e+05 / 30
p0 5.105e−12 ± 2.181e−14
0.1
0.08
0.06
0.04
0.02
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

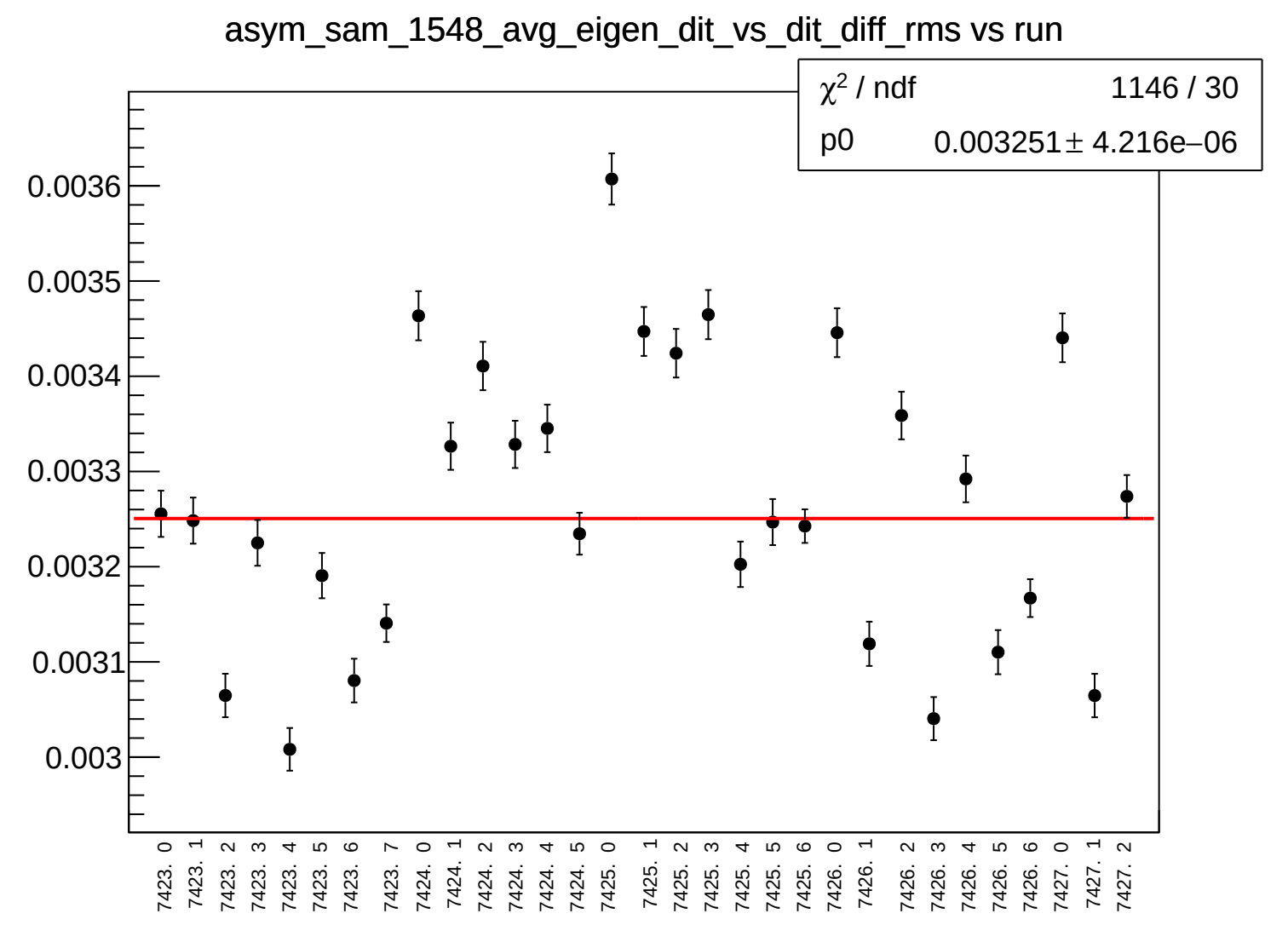

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.25 / 30
p0 −0.03768 ± 0.1965
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 57.43
Std Dev 0
pull1D
Entries 31
Mean −0.001359
Std Dev 0.8082

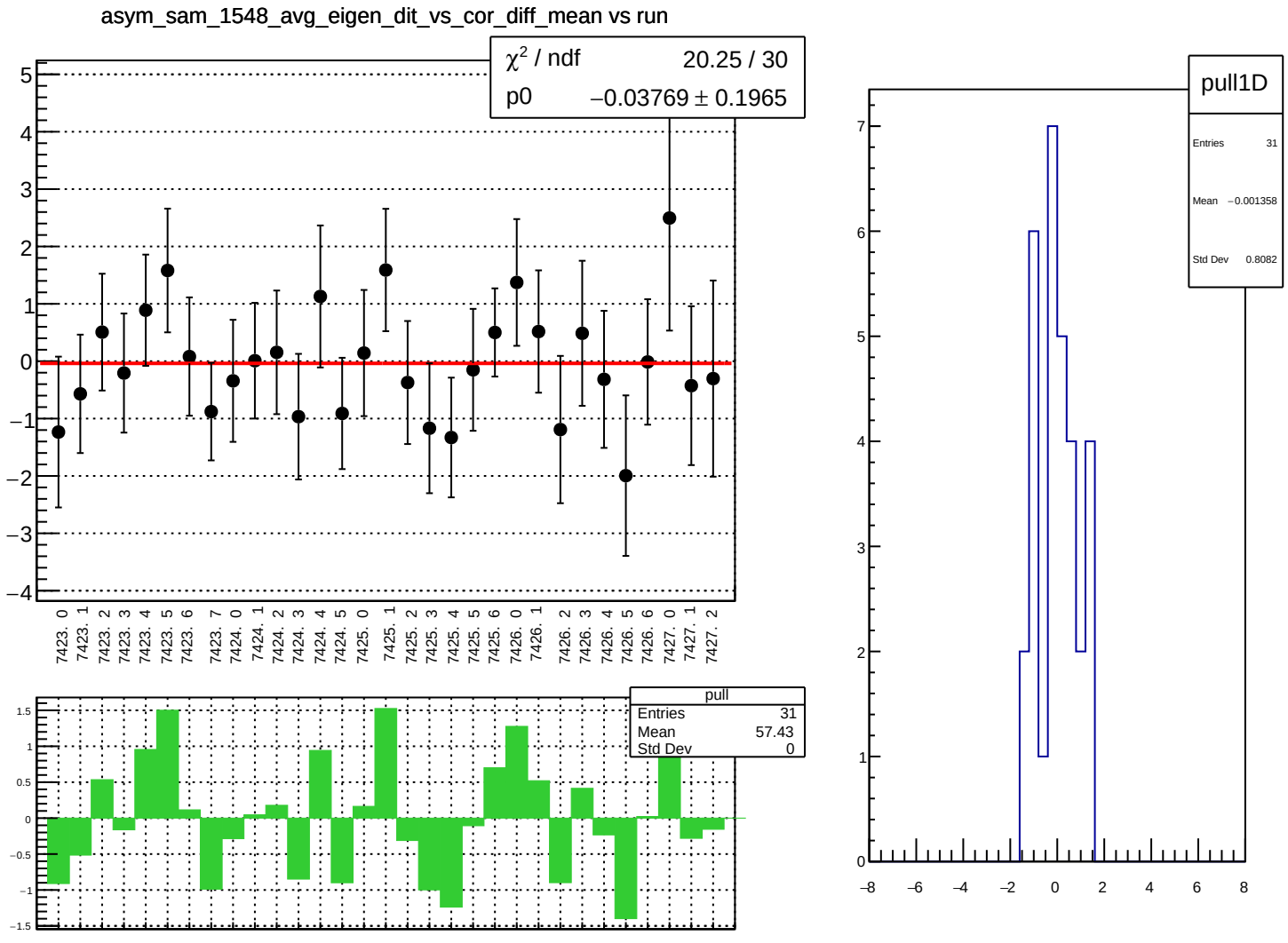

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.182e+04 / 30
p0 106.2 ± 0.139
180
160
140
120
100
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

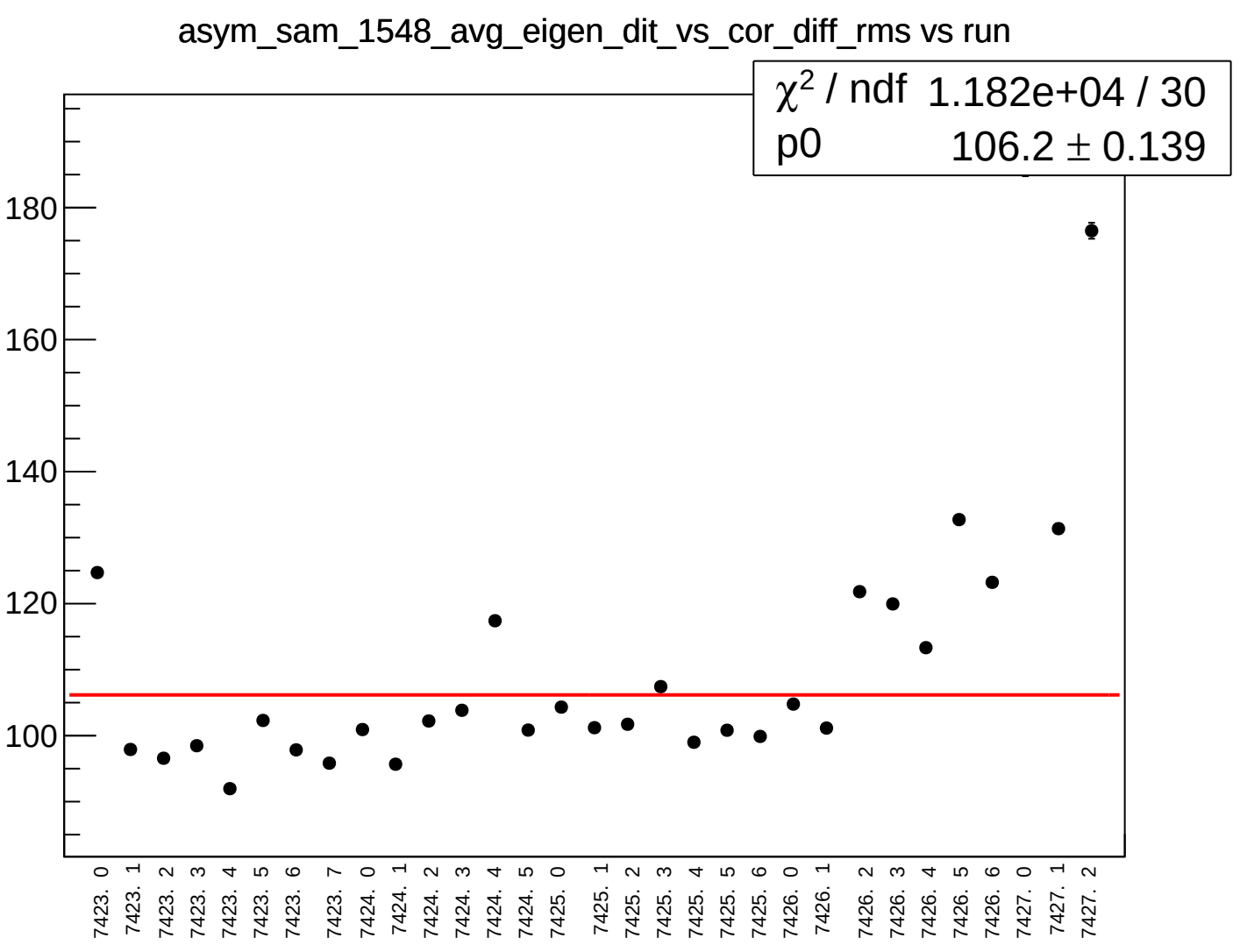

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.25 / 30
p0 −0.03768 ± 0.1965
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 57.43
Std Dev 0
pull1D
Entries 31
Mean −0.001359
Std Dev 0.8082


asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.182e+04 / 30
p0 106.2 ± 0.139
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

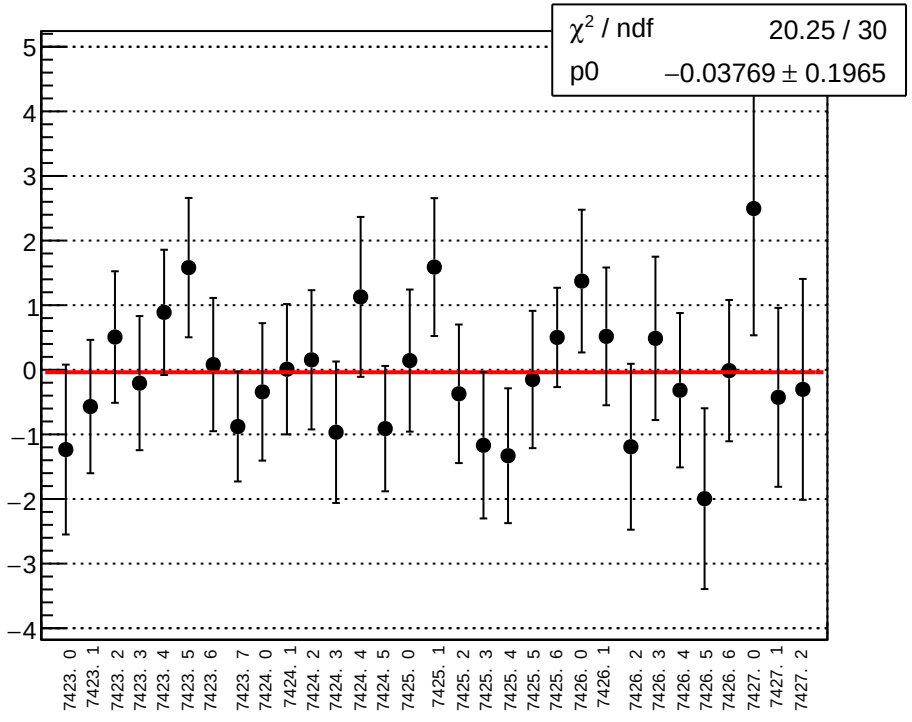

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.55 / 30
p0 −9.472e−06 ± 5.963e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 86.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.02389
Std Dev 1.185
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

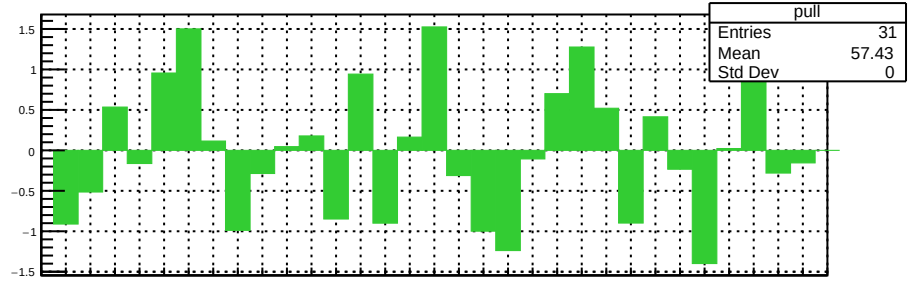

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1146 / 30
p0 0.003251 ± 4.216e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

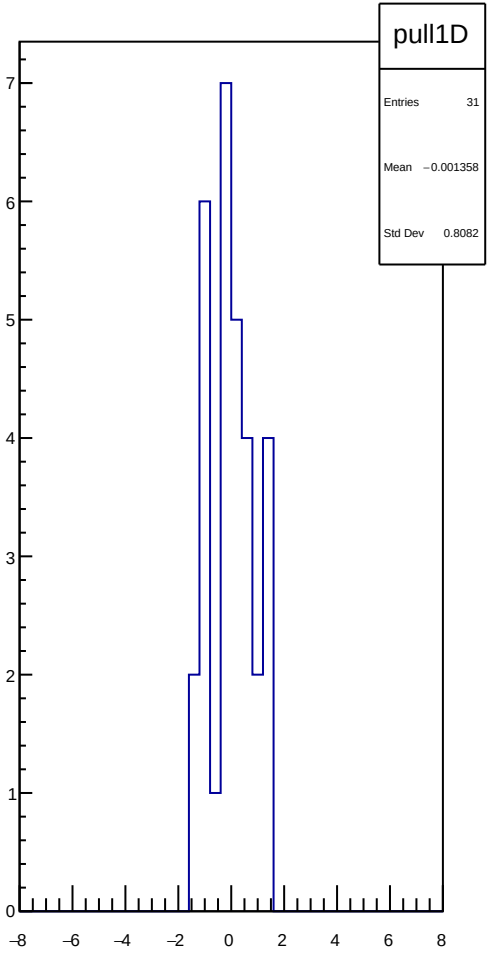

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.25 / 30
p0 −0.03769 ± 0.1965
pull
Entries 31
Mean 57.43
Std Dev 0
pull1D
Entries 31
Mean −0.001358
Std Dev 0.8082

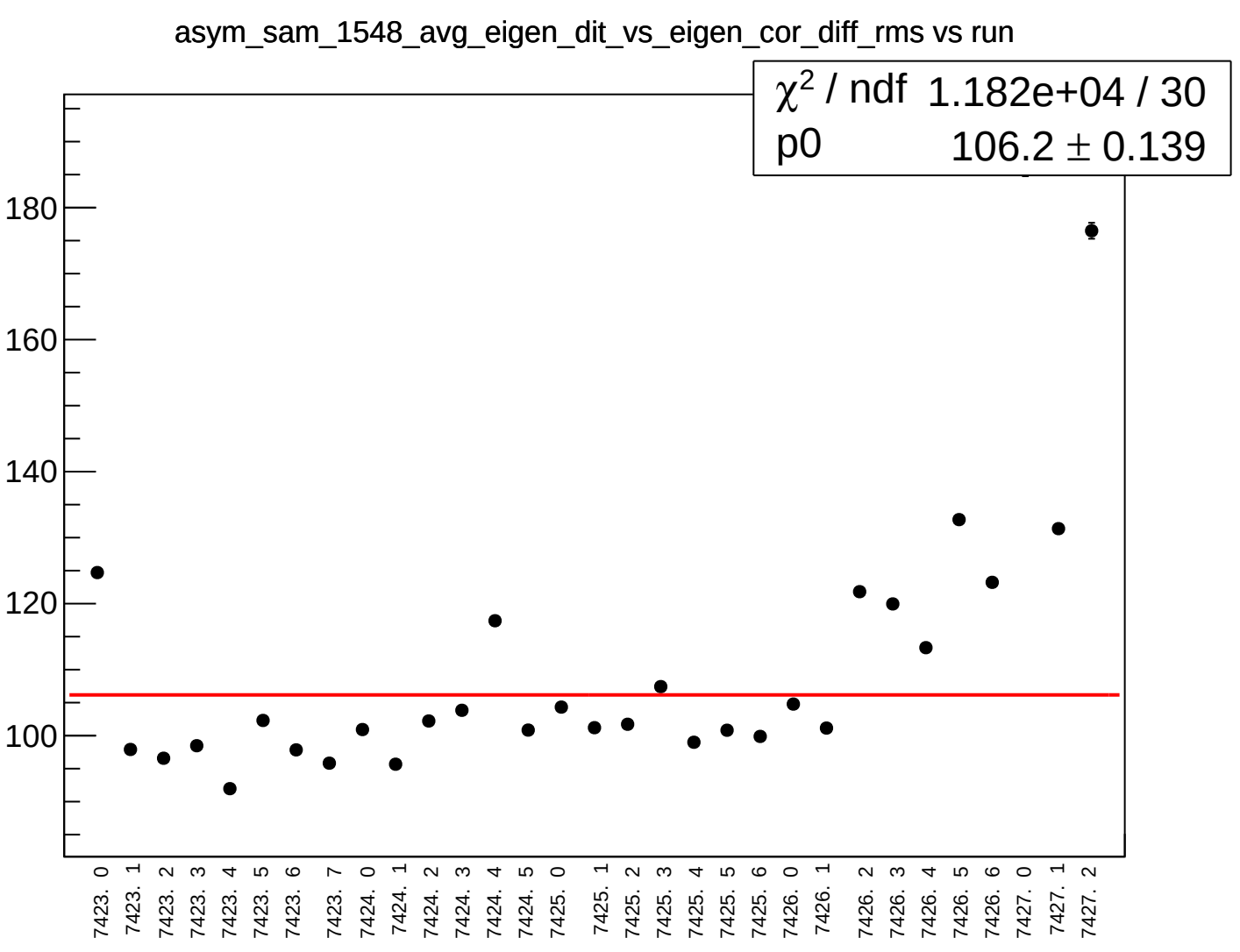

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.182e+04 / 30
p0 106.2 ± 0.139
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

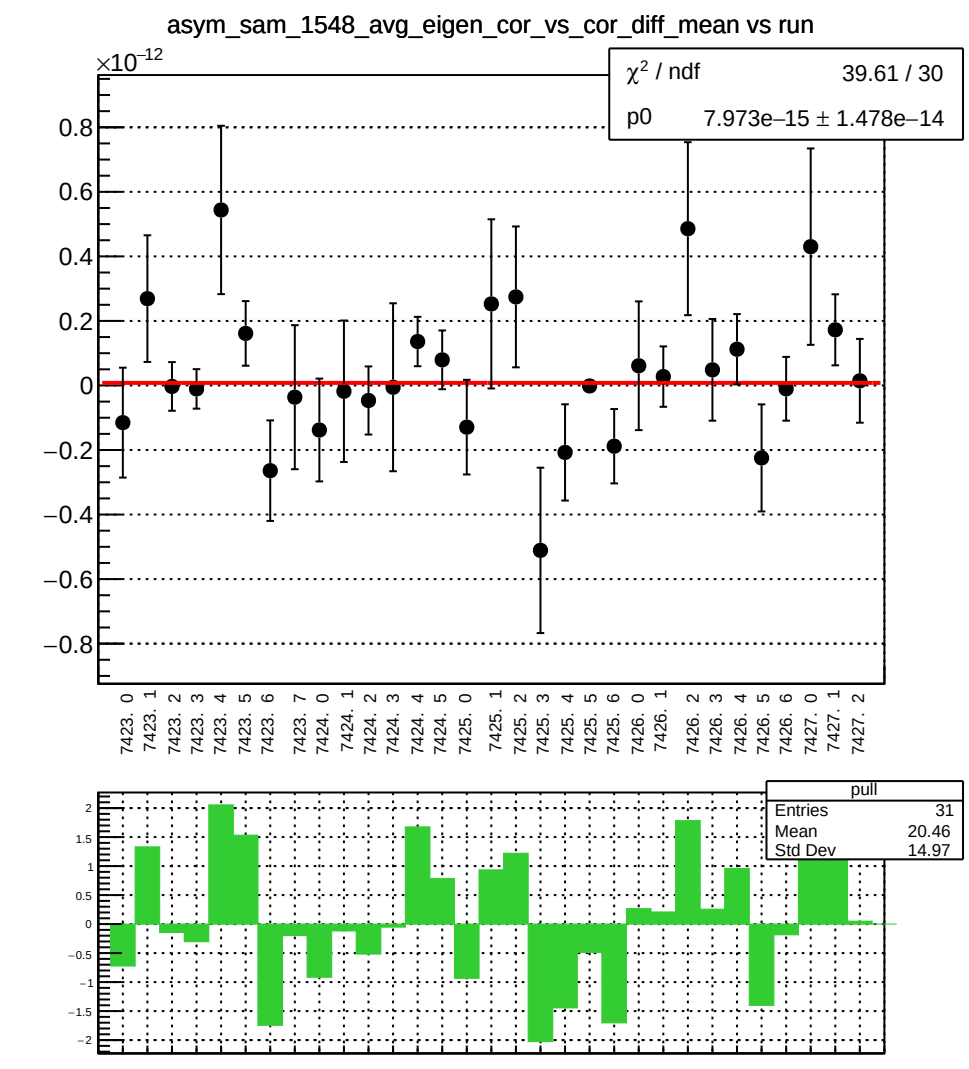
asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

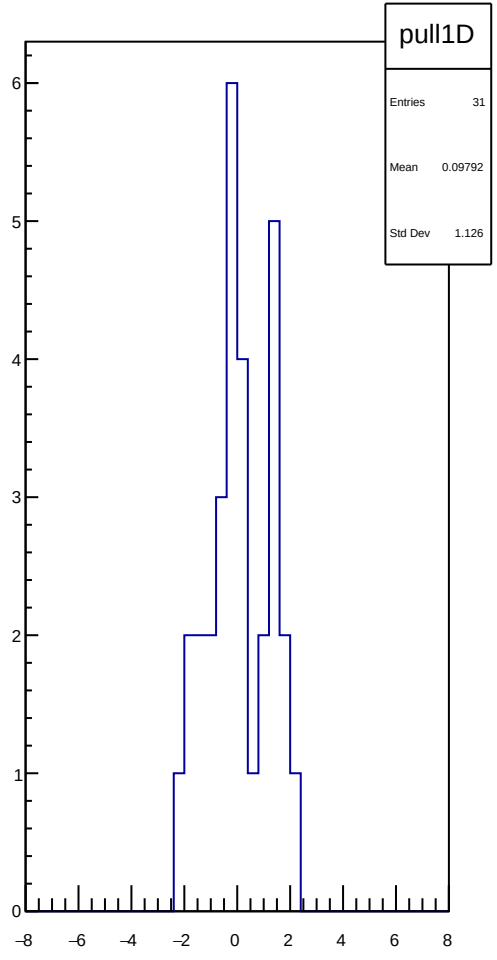


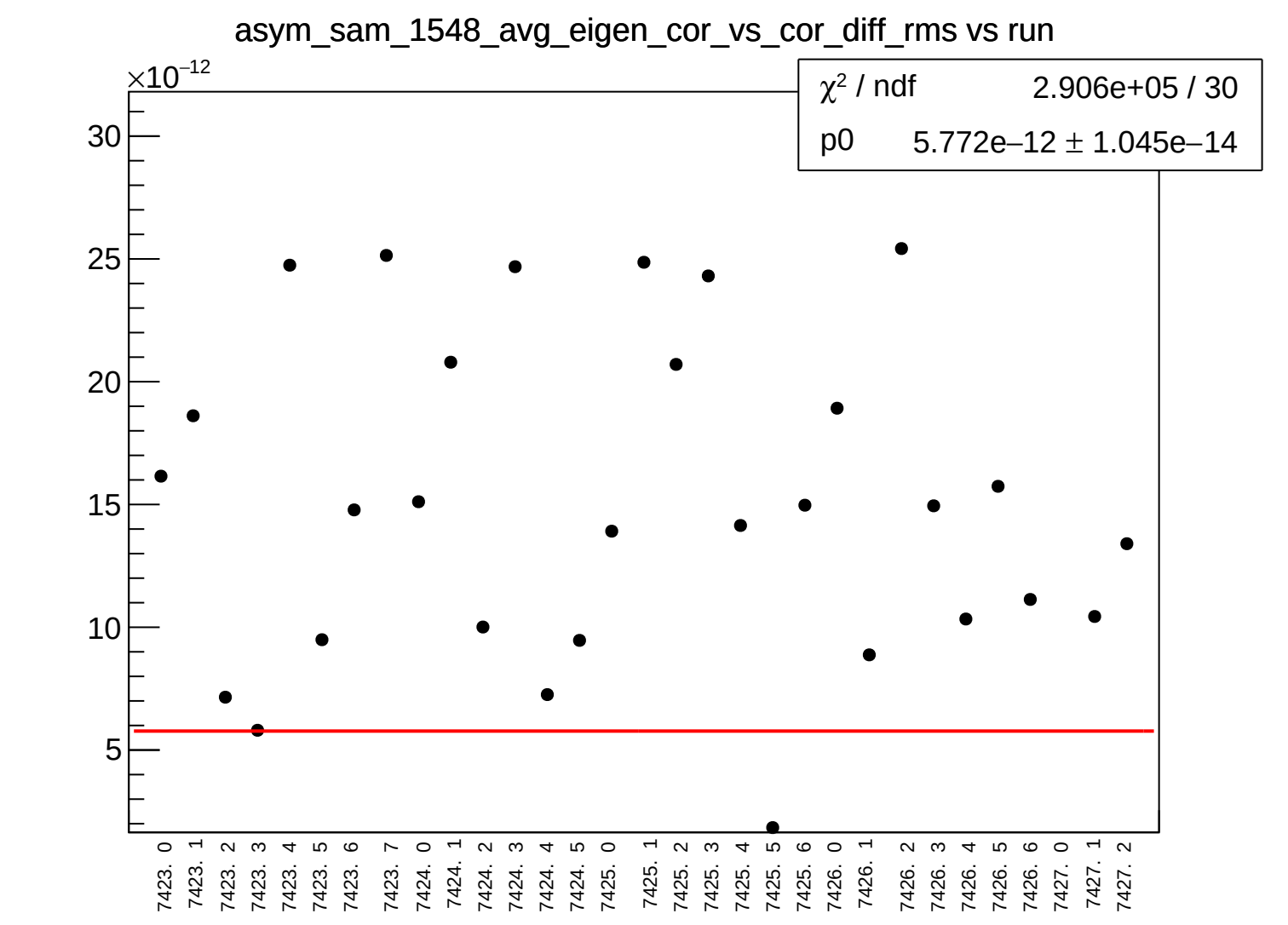


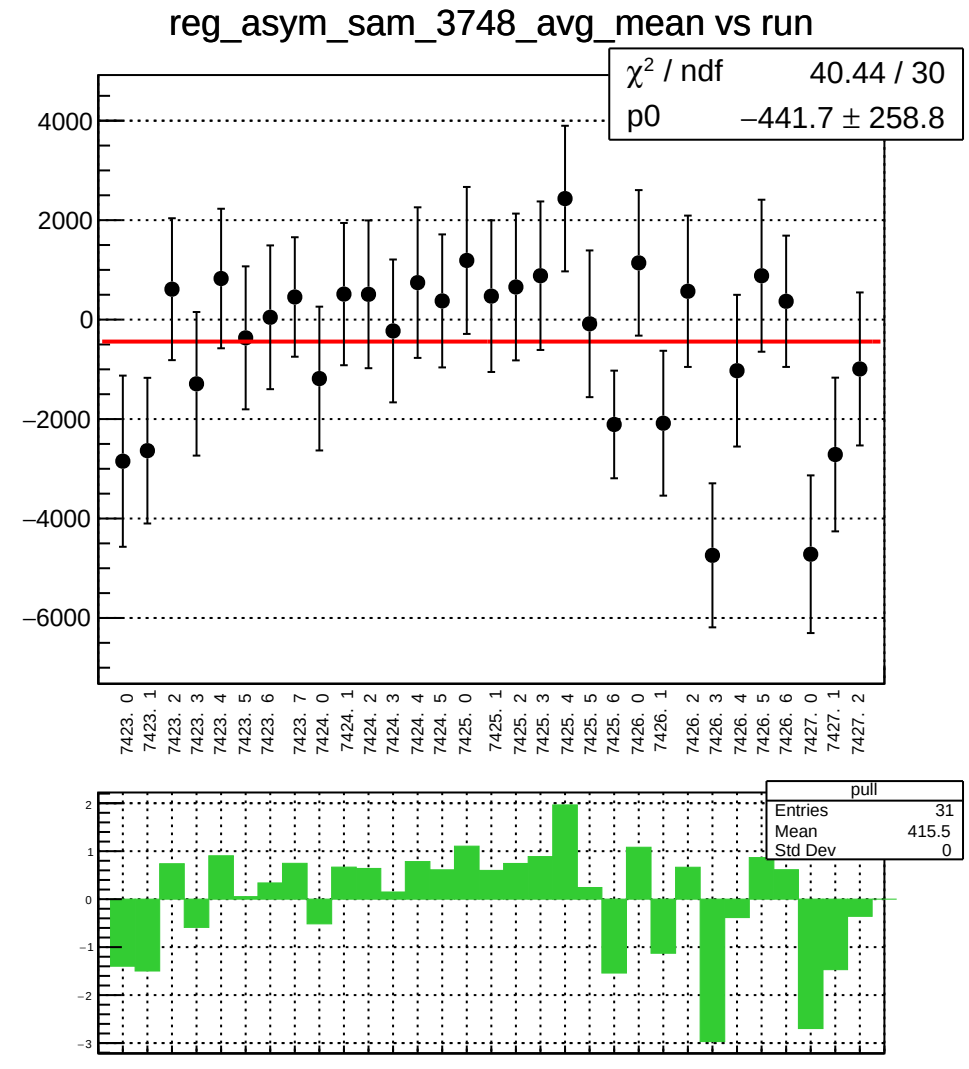


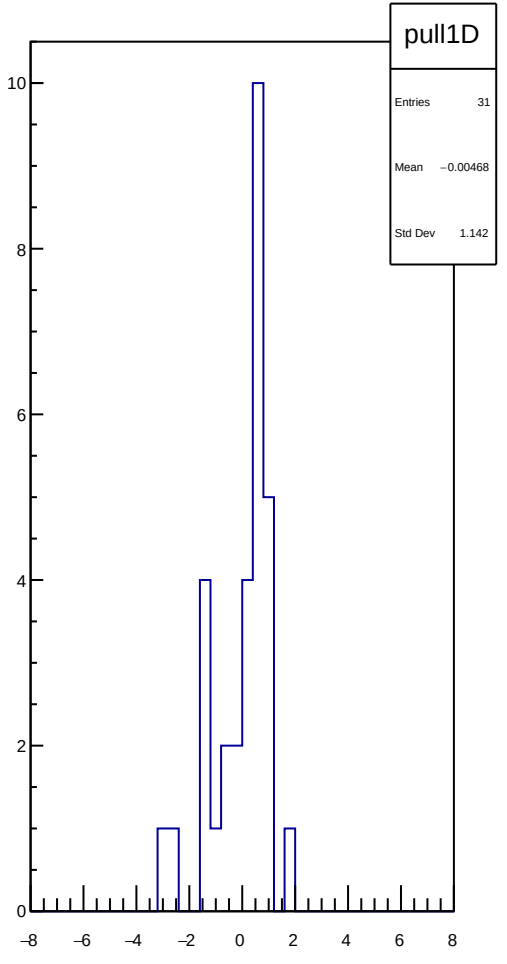

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.182e+04 / 30
p0 106.2 ± 0.139
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

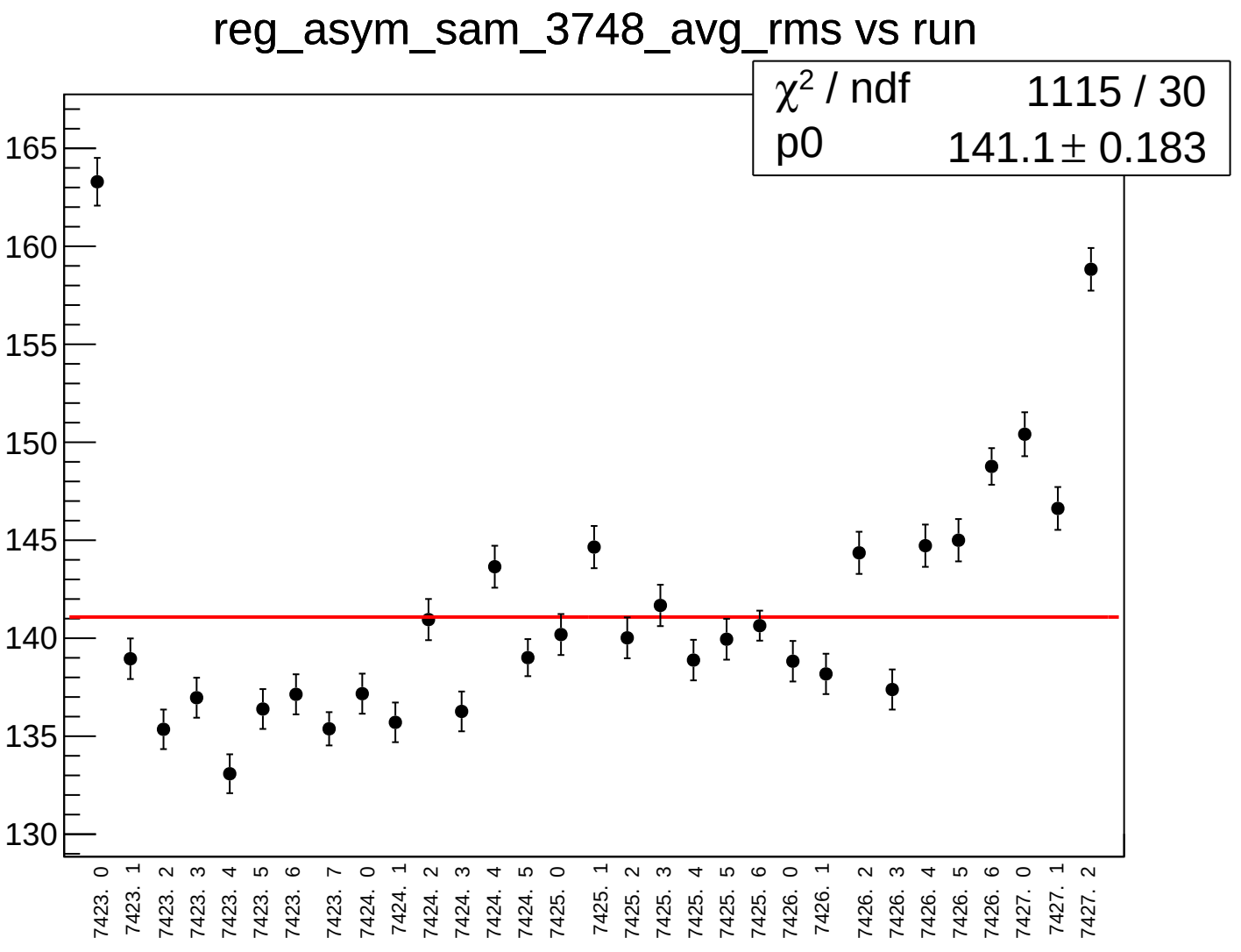

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.61 / 30
p0 7.973e−15 ± 1.478e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 20.46
Std Dev 14.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

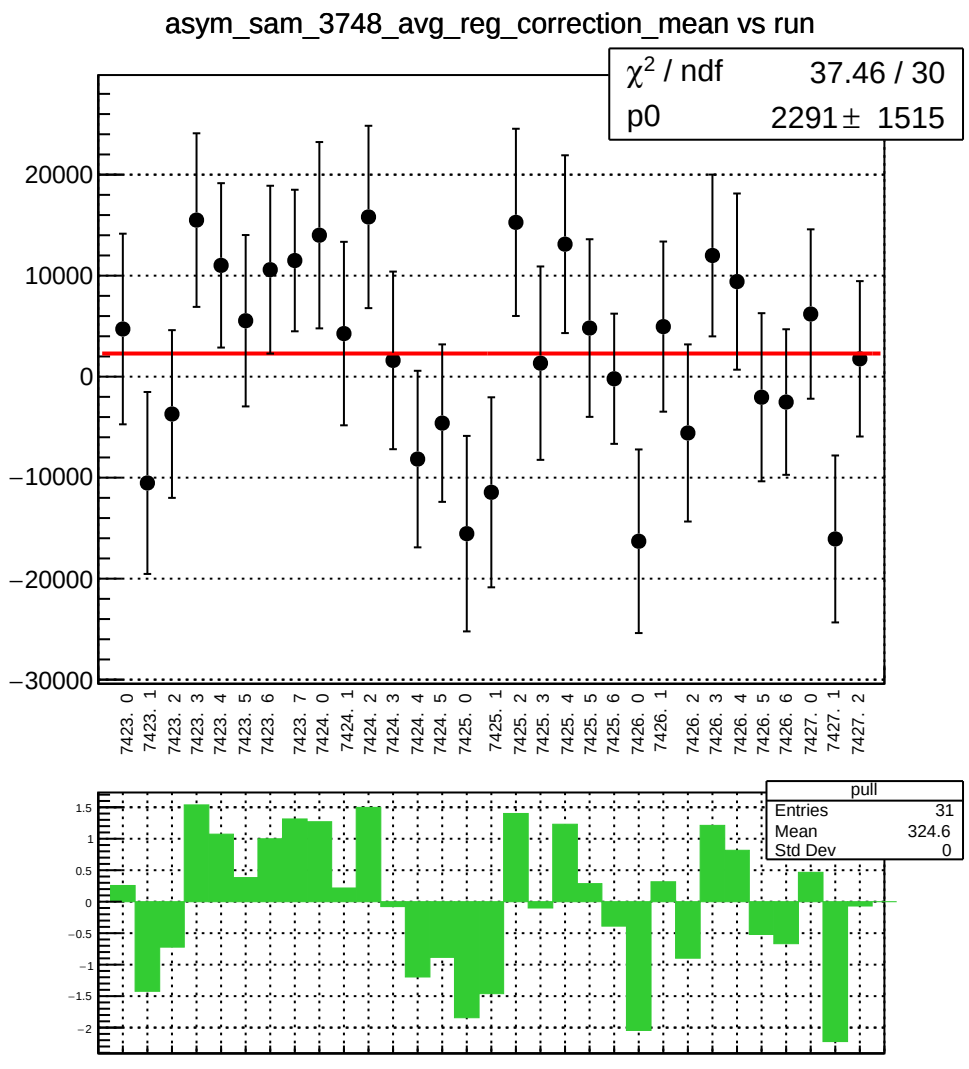

pull1D
Entries 31
Mean 0.09792
Std Dev 1.126
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

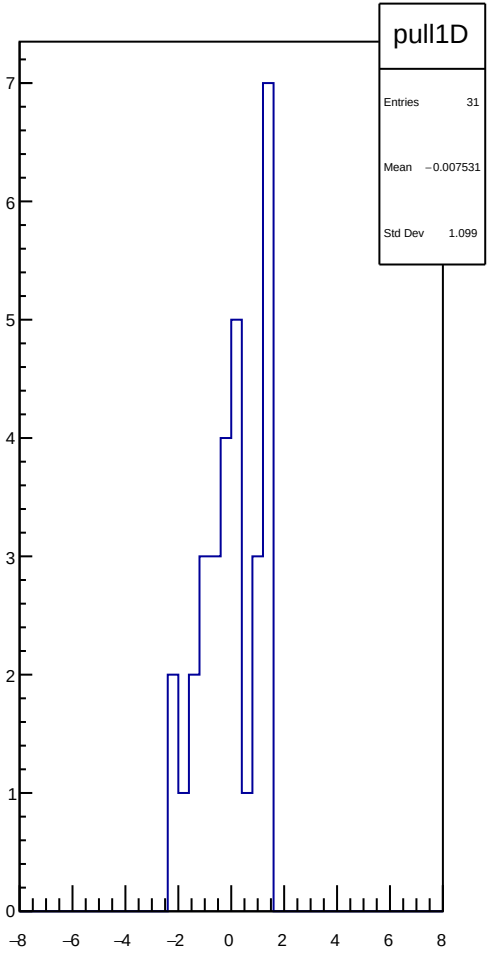

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.906e+05 / 30
p0 5.772e−12 ± 1.045e−14
30
25
20
15
10
5
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

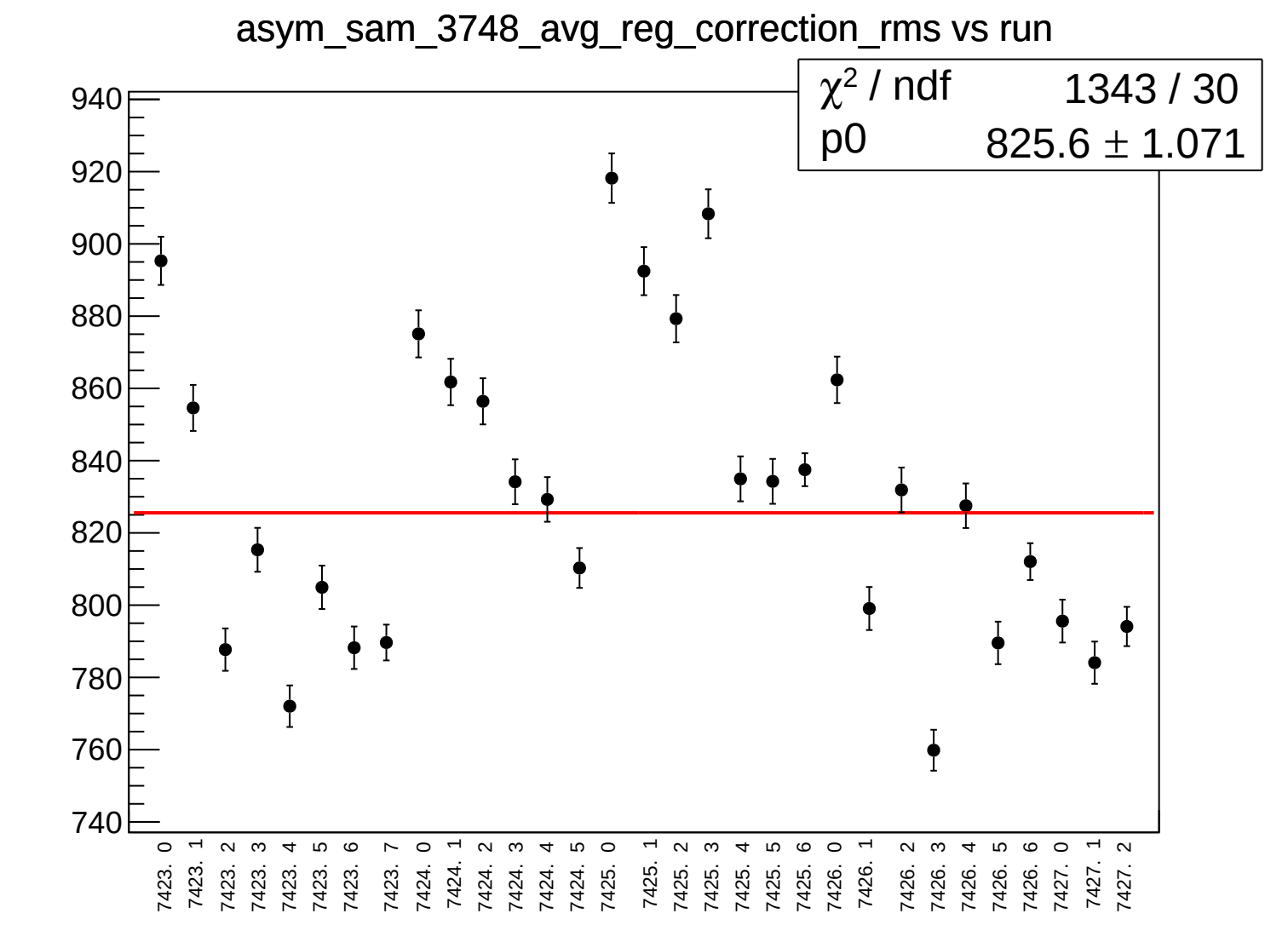

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 40.44 / 30
p0 −441.7 ± 258.8
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 415.5
Std Dev 0
2
1
0
−1
−2
−3

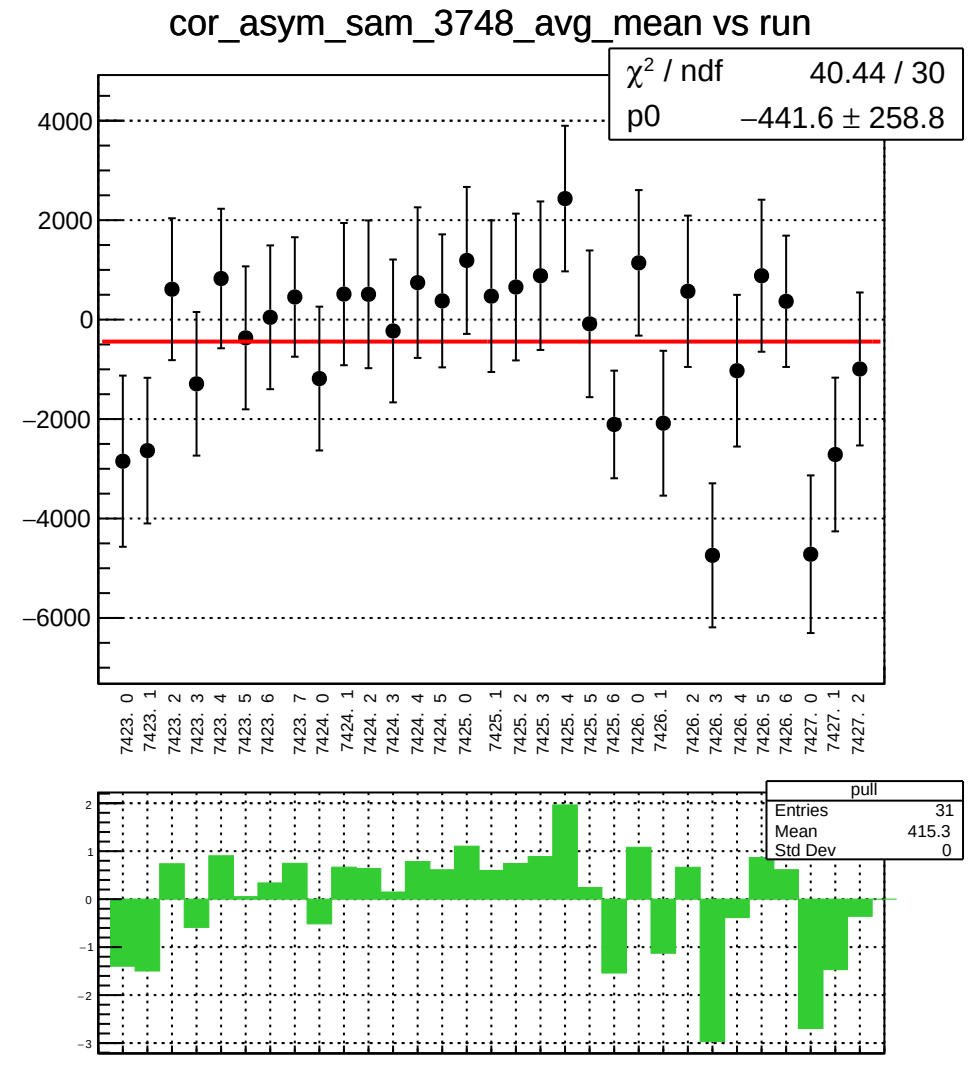

pull1D
Entries 31
Mean −0.00468
Std Dev 1.142
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

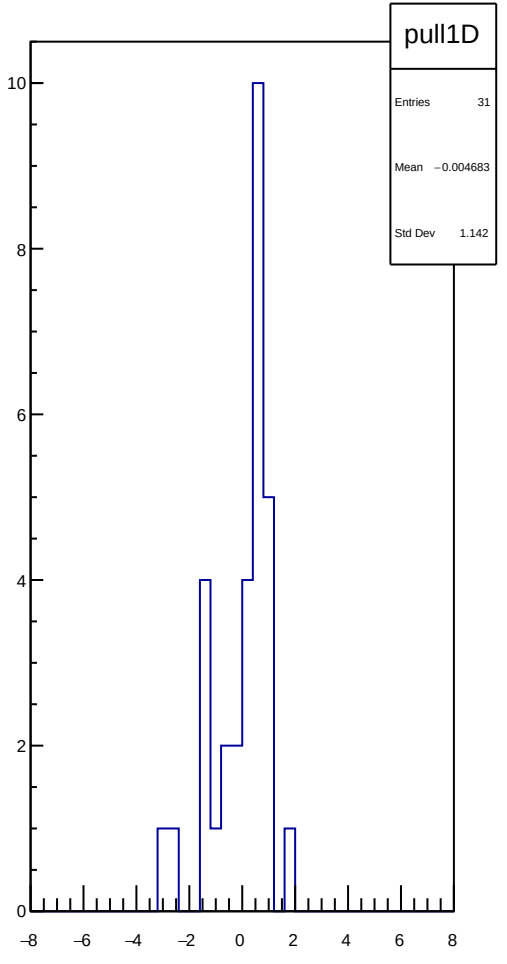

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1115 / 30
p0 141.1 ± 0.183
165
160
155
150
145
140
135
130
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

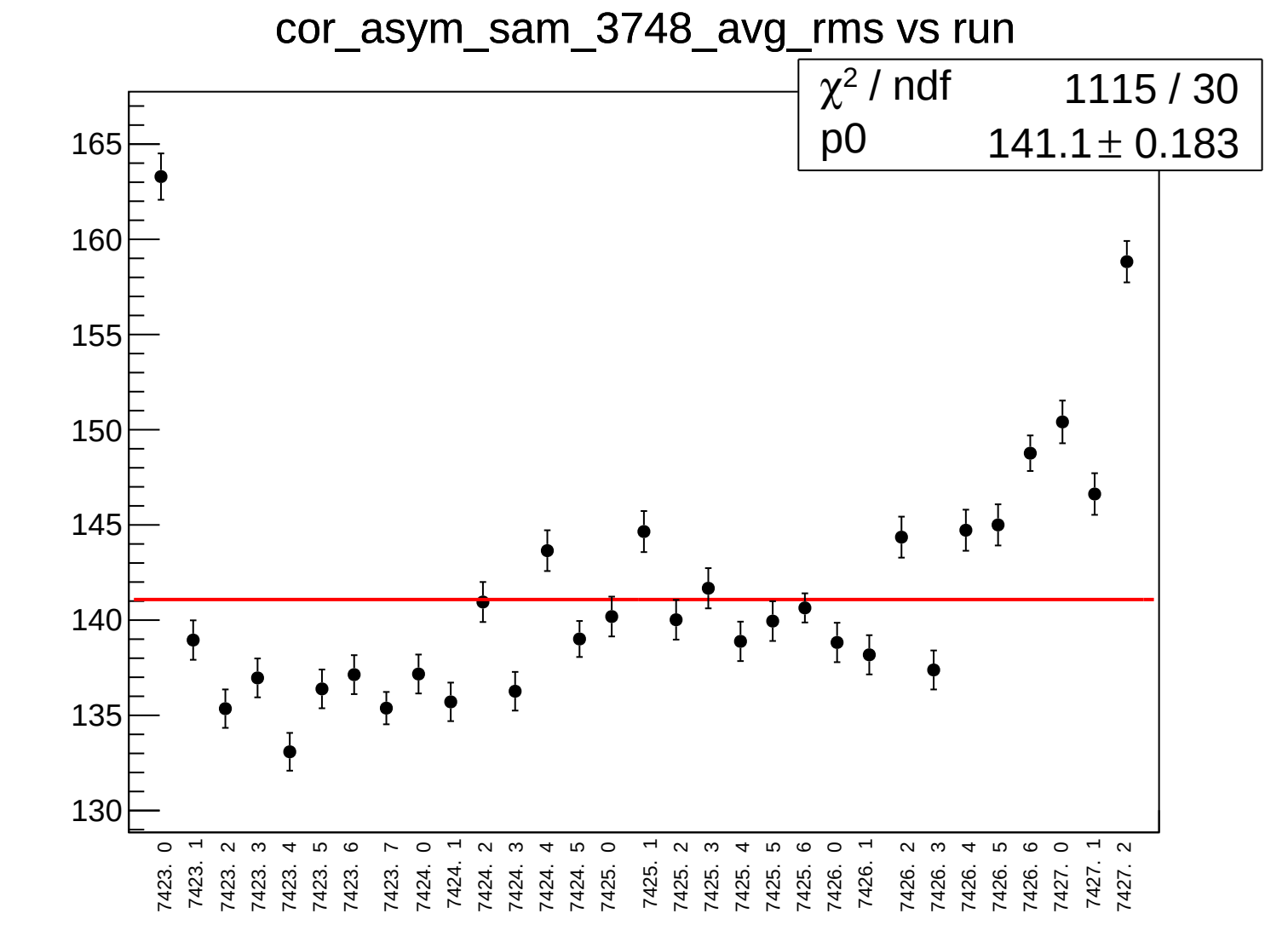

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 37.46 / 30
p0 2291 ± 1515
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 324.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

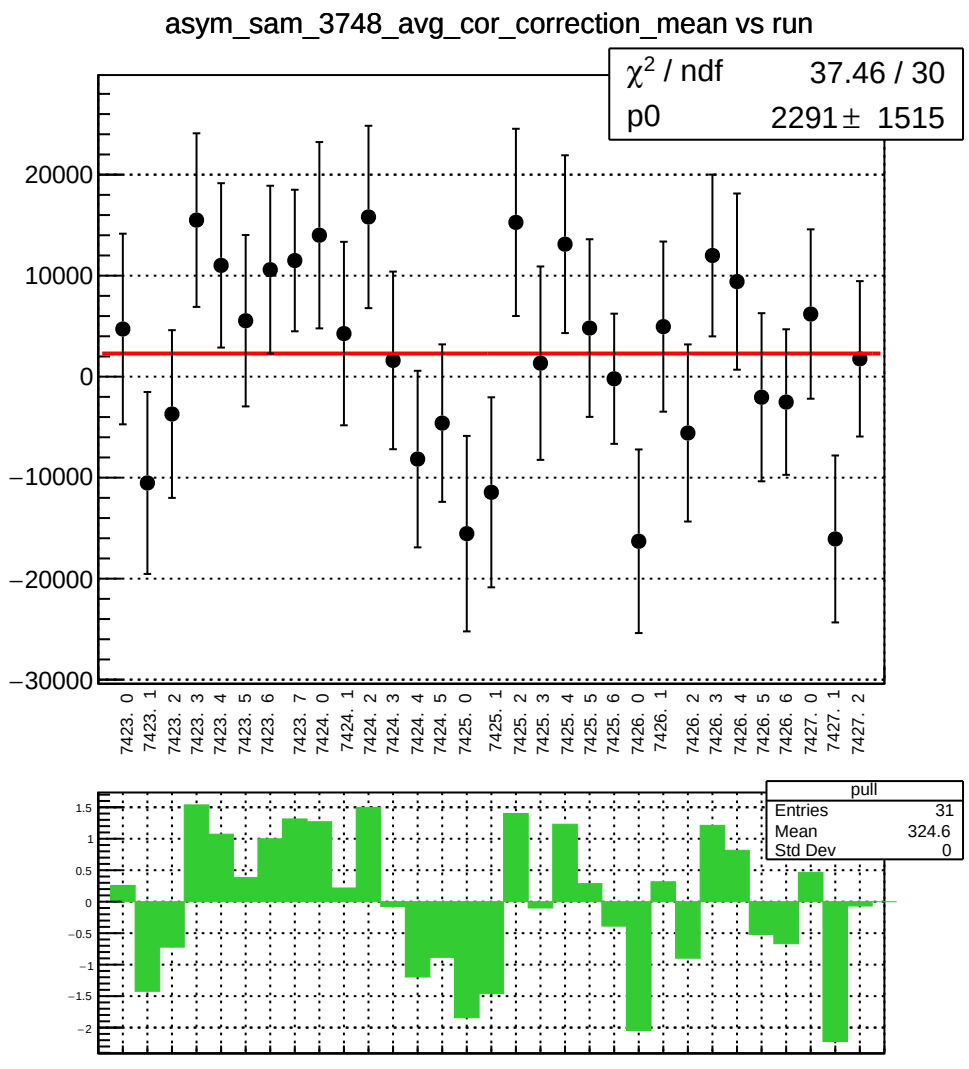

pull1D
Entries 31
Mean −0.007531
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

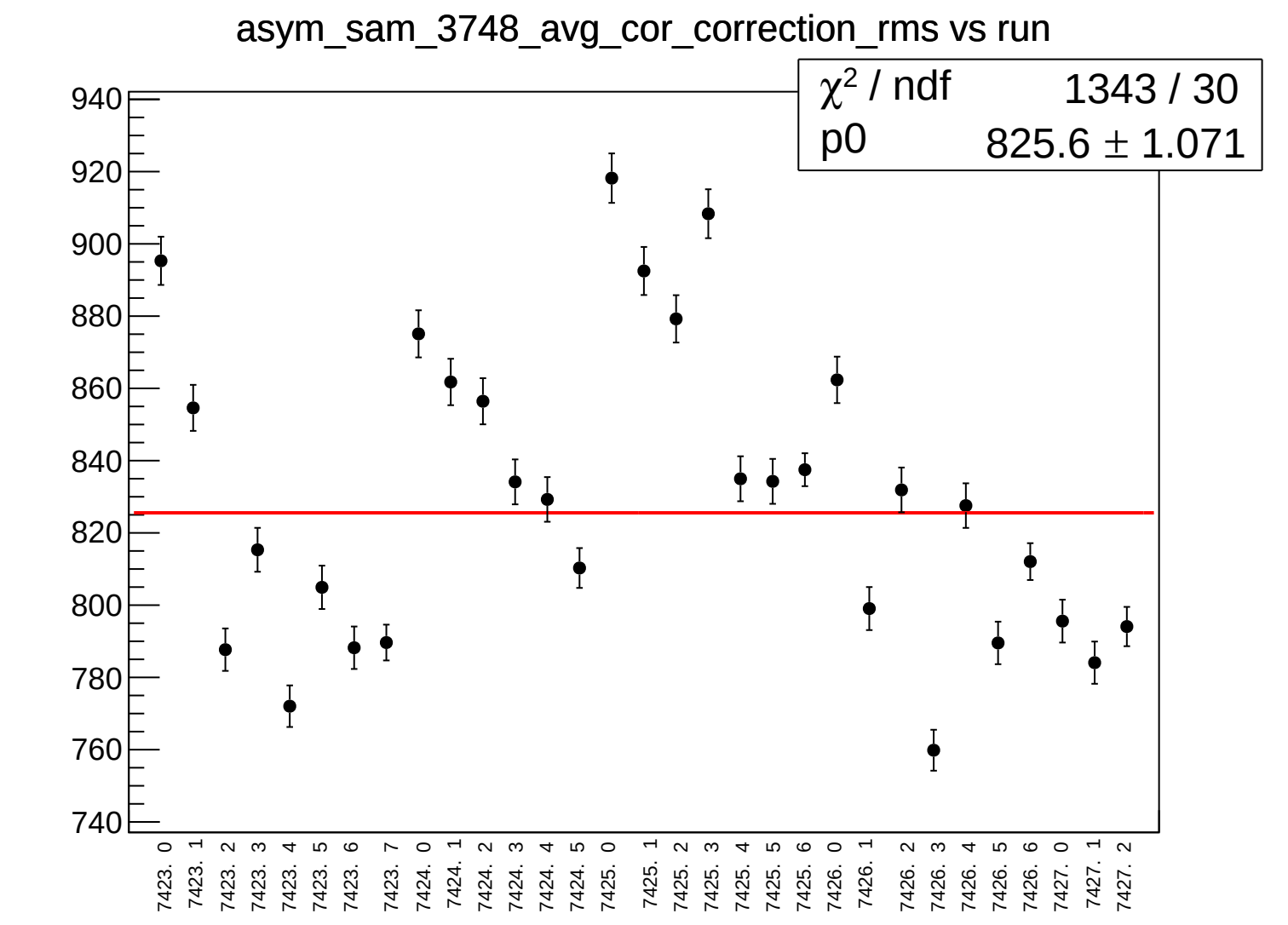

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1343 / 30
p0 825.6 ± 1.071
940
920
900
880
860
840
820
800
780
760
740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

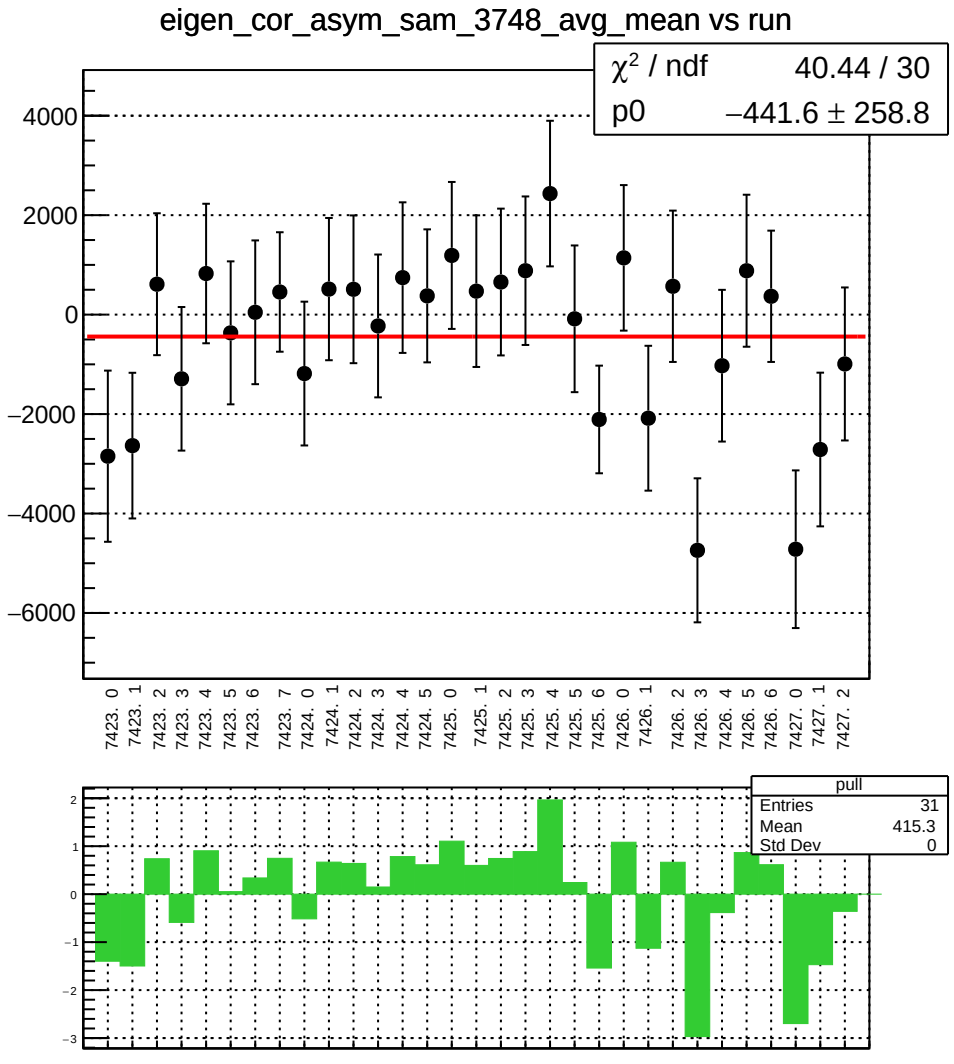

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 40.44 / 30
p0 −441.6 ± 258.8
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 415.3
Std Dev 0
2
1
0
−1
−2
−3

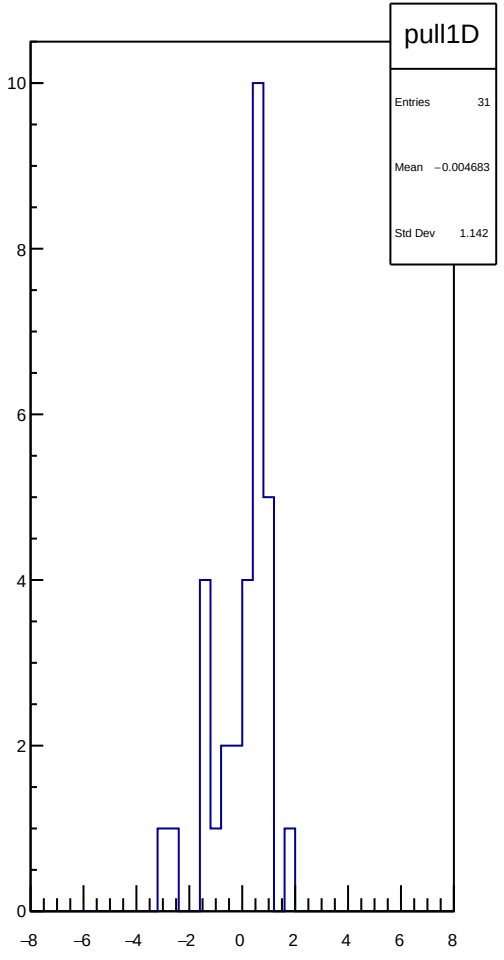

pull1D
Entries 31
Mean −0.004683
Std Dev 1.142
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

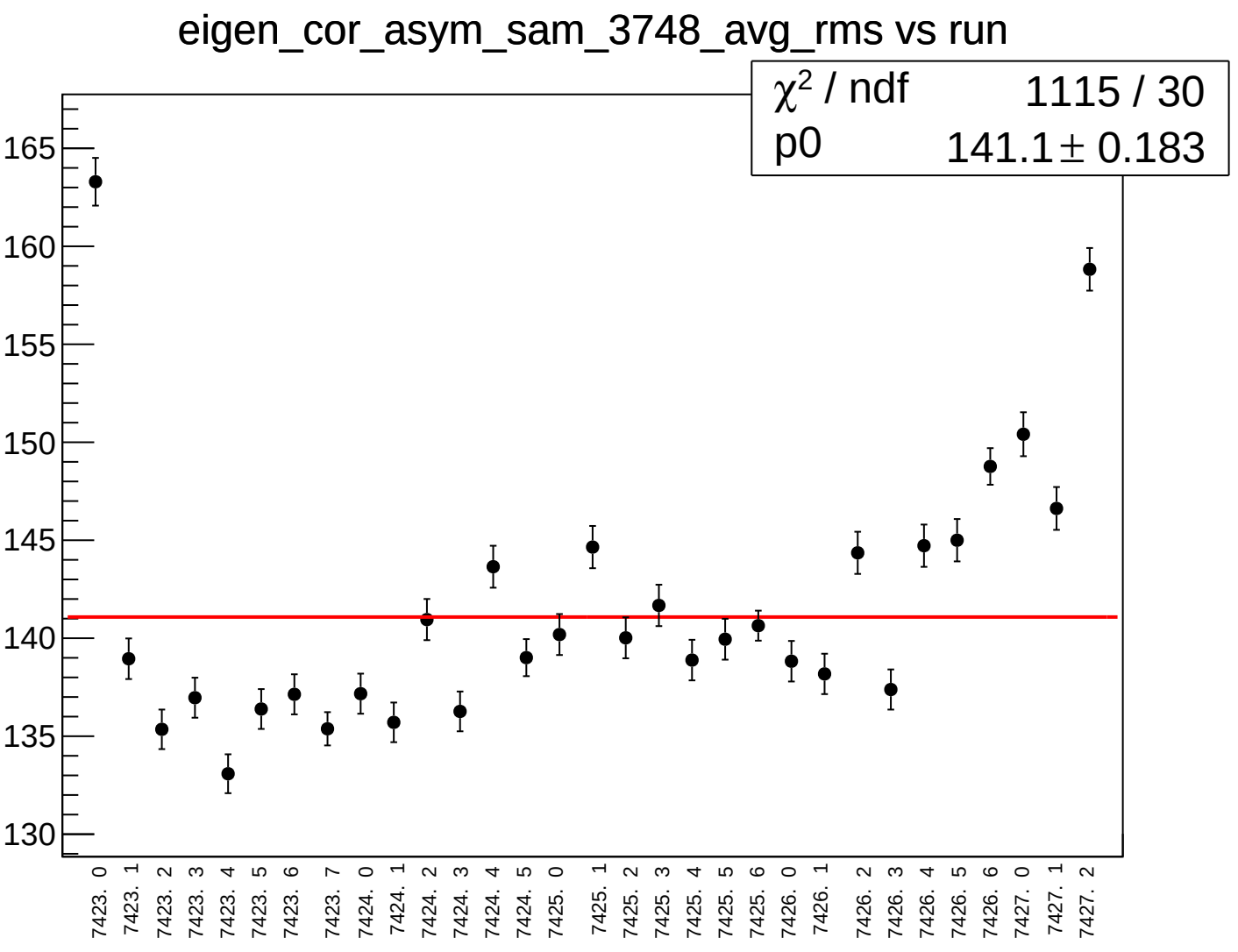

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1115 / 30
p0 141.1 ± 0.183
165
160
155
150
145
140
135
130
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

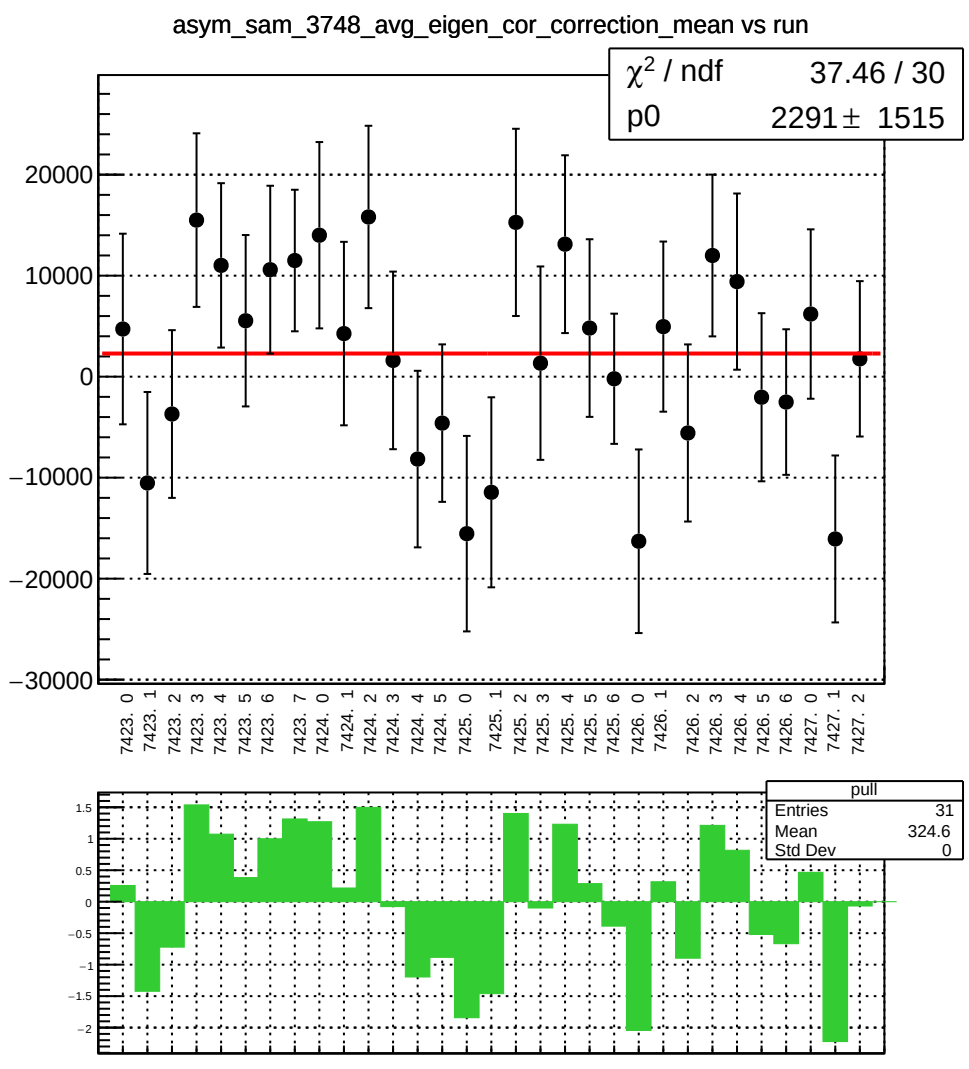

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 37.46 / 30
p0 2291 ± 1515
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 324.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.007531
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

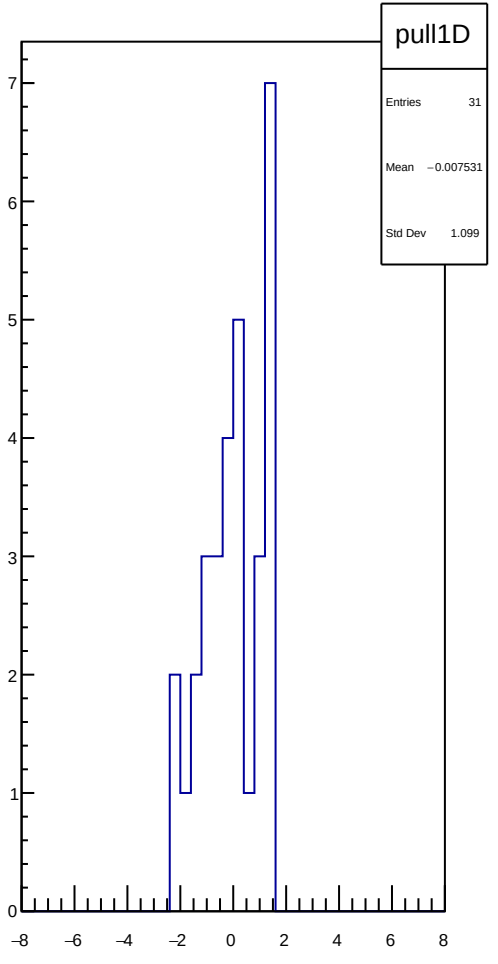

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1343 / 30
p0 825.6 ± 1.071
940
920
900
880
860
840
820
800
780
760
740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

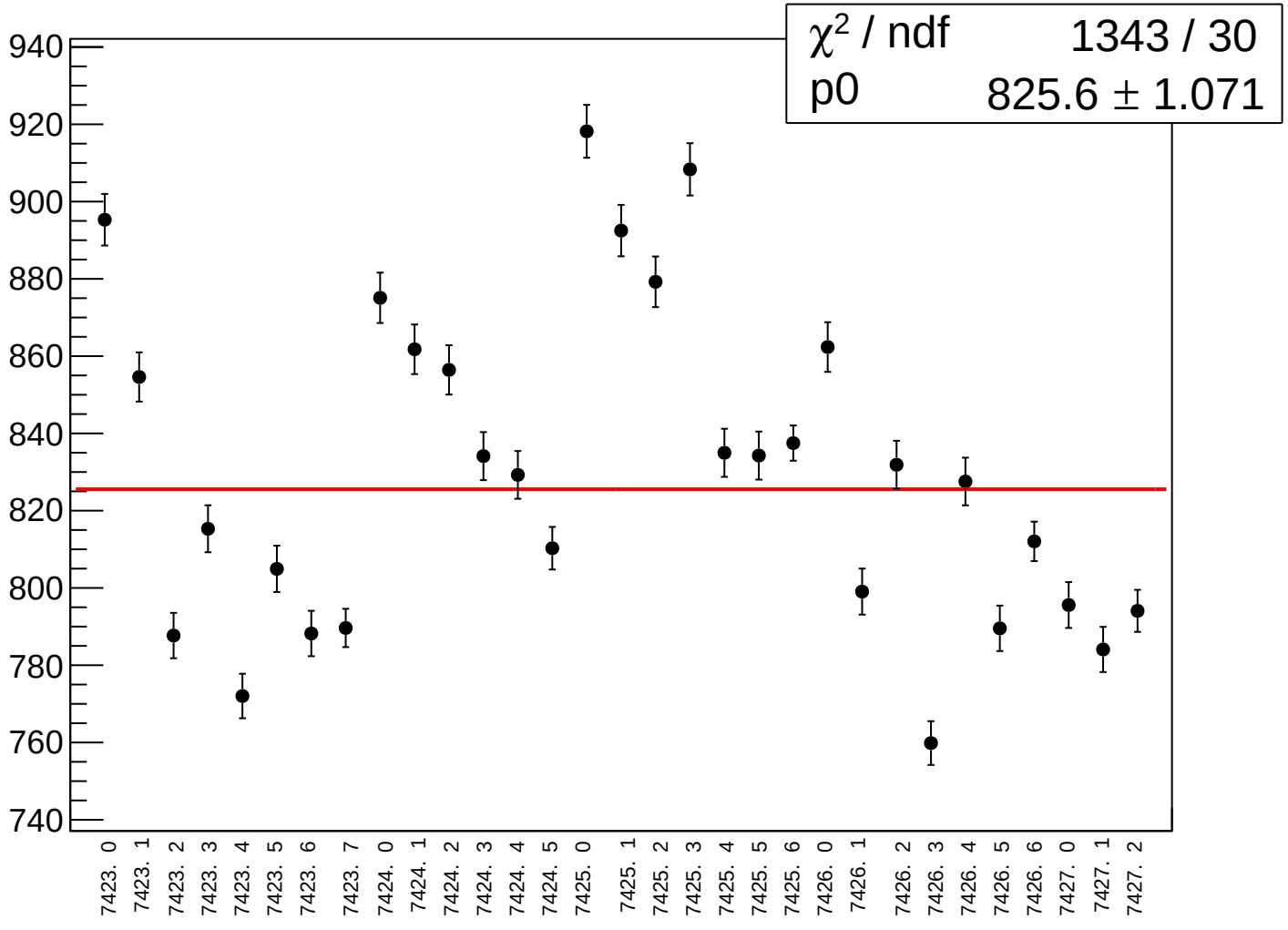

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 40.44 / 30
p0 −441.6 ± 258.8
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 415.3
Std Dev 0
2
1
0
−1
−2
−3

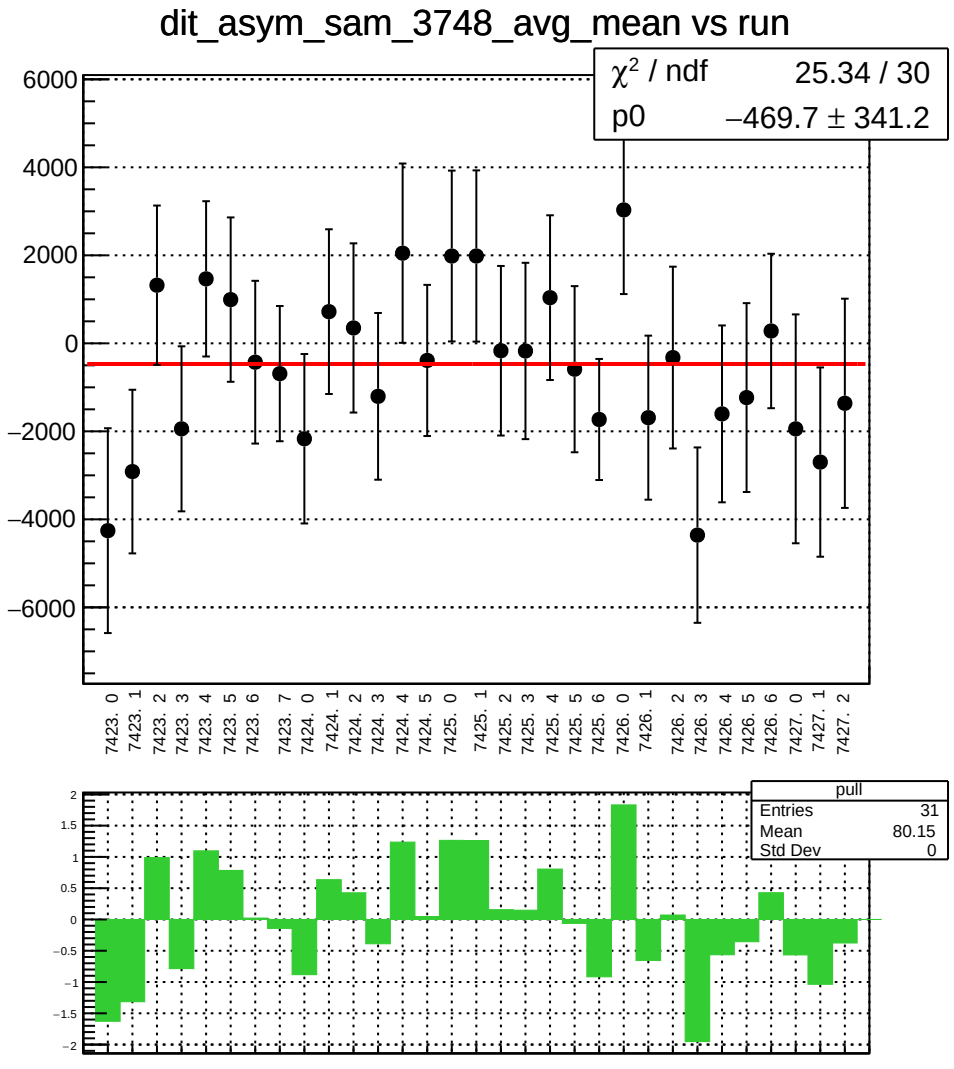

pull1D
Entries 31
Mean −0.004683
Std Dev 1.142
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

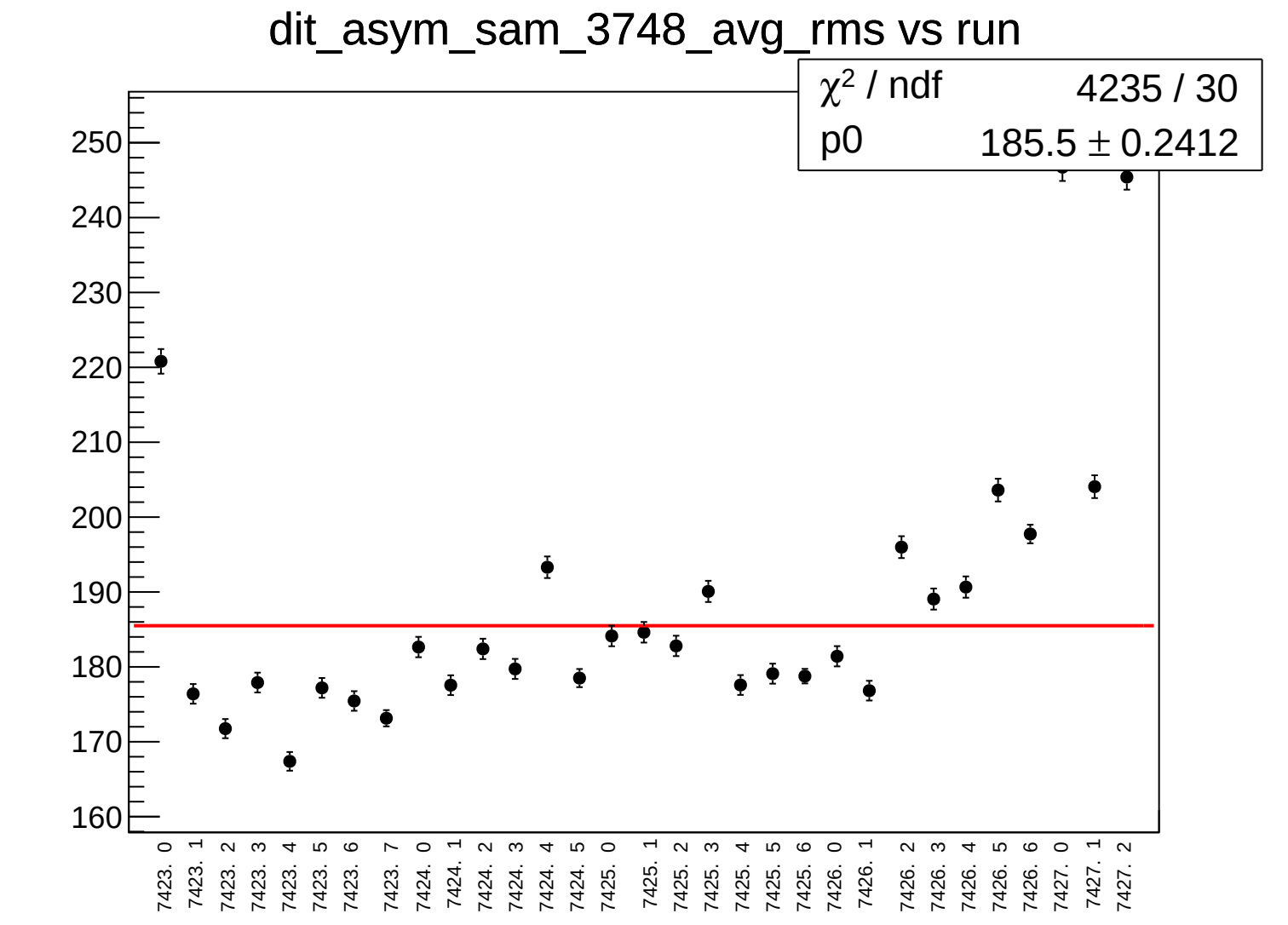

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1115 / 30
p0 141.1 ± 0.183
165
160
155
150
145
140
135
130
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

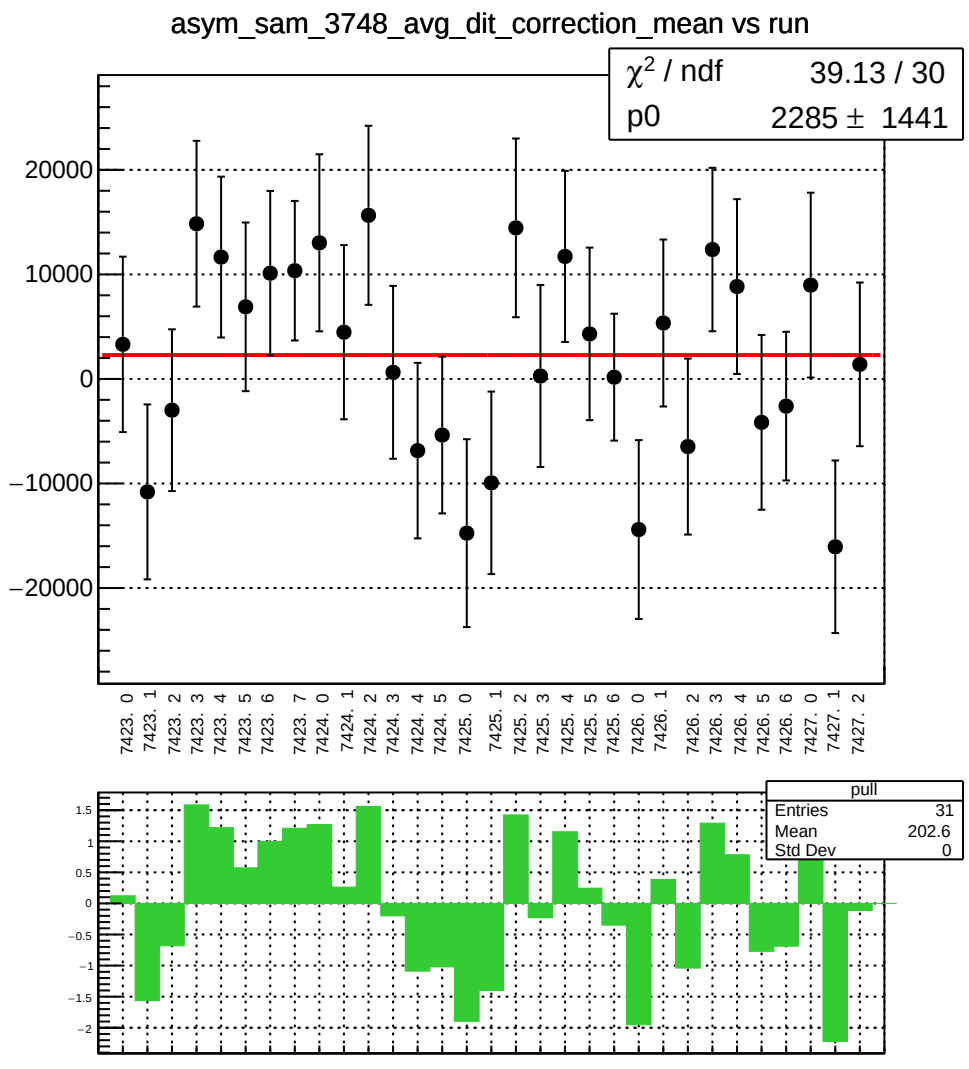

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.46 / 30
p0 2291 ± 1515
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 324.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

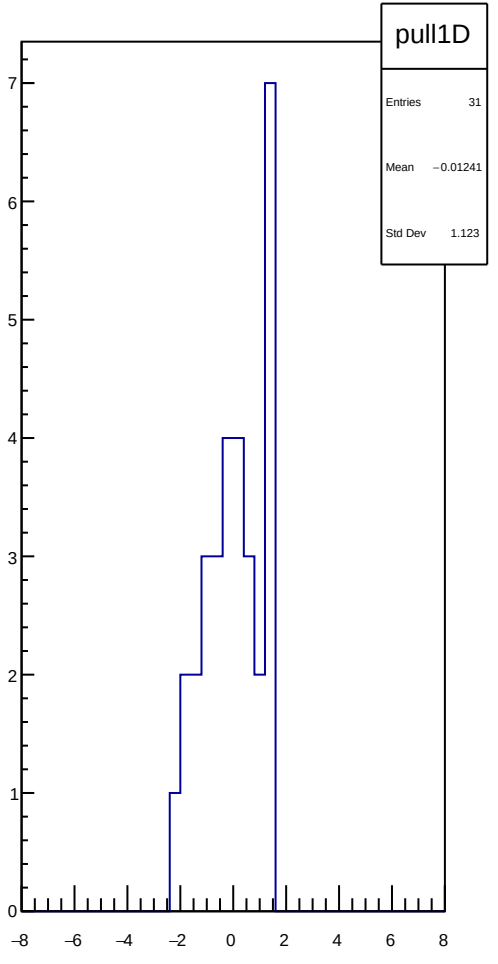

pull1D
Entries 31
Mean −0.007531
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

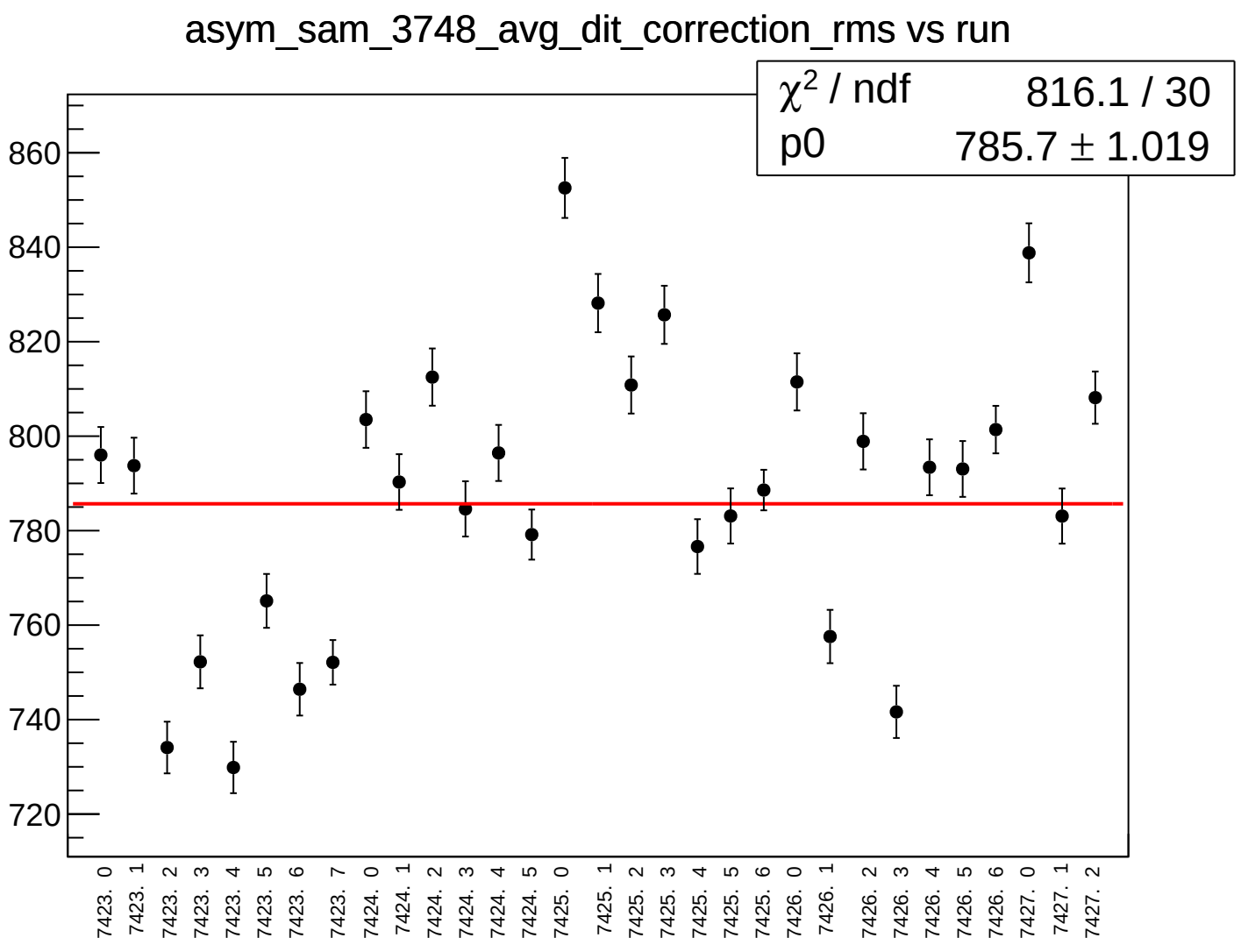

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1343 / 30
p0 825.6 ± 1.071
940
920
900
880
860
840
820
800
780
760
740
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

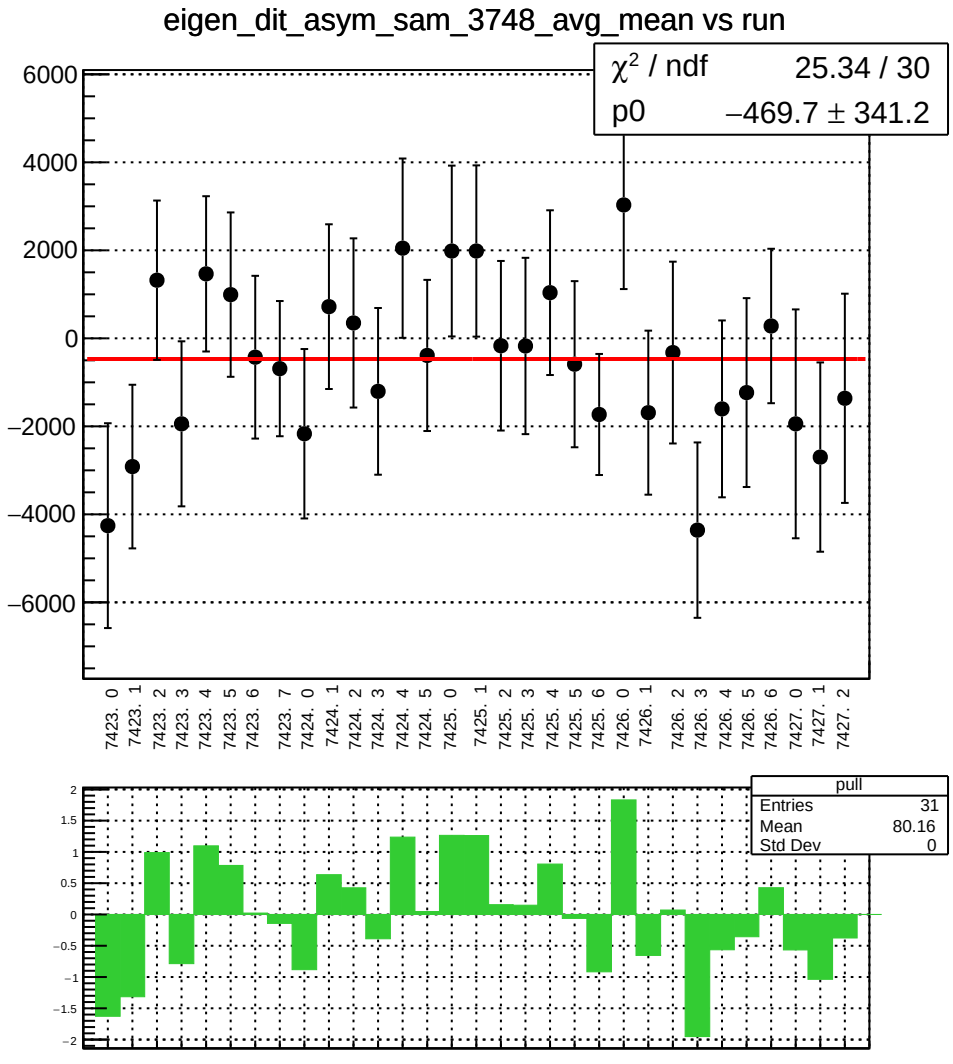

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 25.34 / 30
p0 −469.7 ± 341.2
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 80.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01364
Std Dev 0.904
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

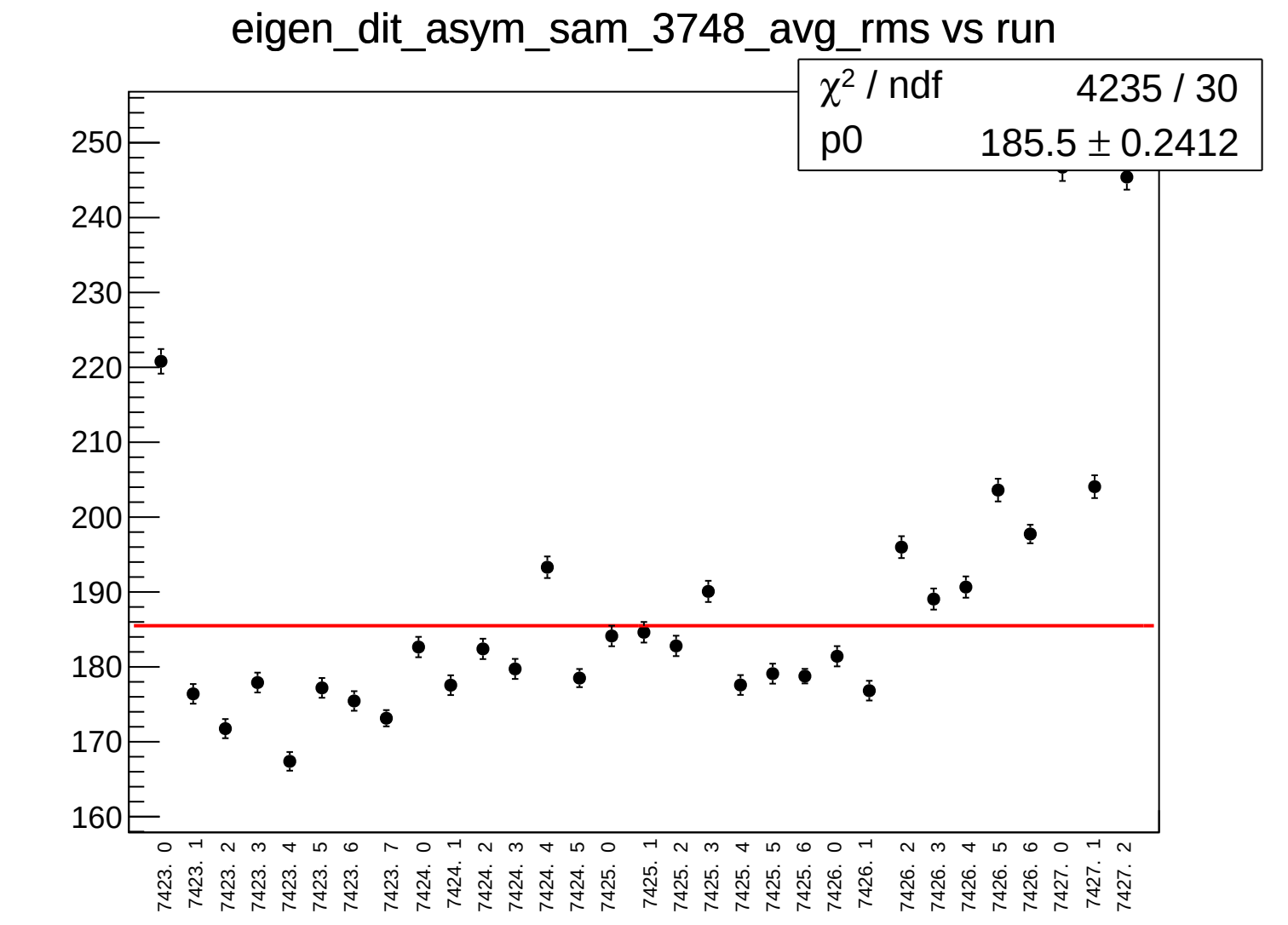

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 4235 / 30
p0 185.5 ± 0.2412
250
240
230
220
210
200
190
180
170
160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

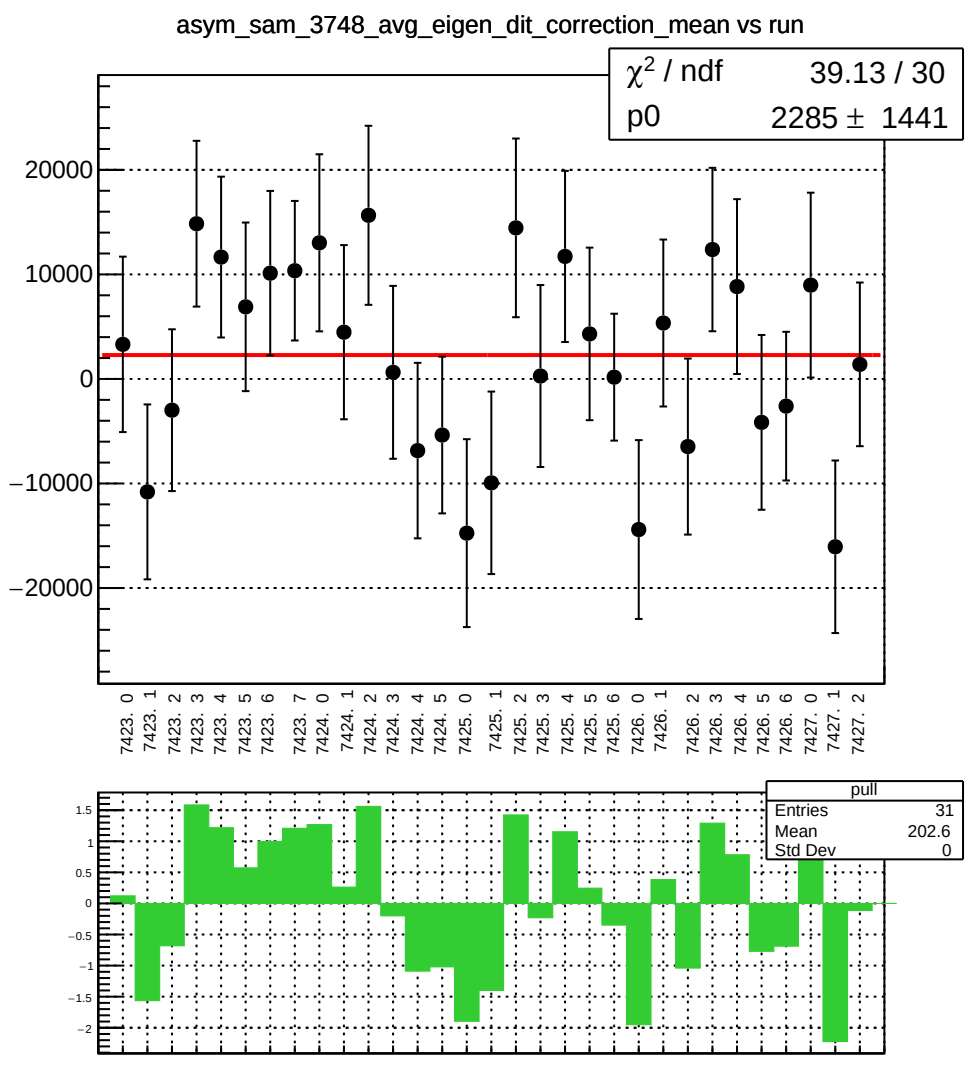

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 39.13 / 30
p0 2285 ± 1441
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 202.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

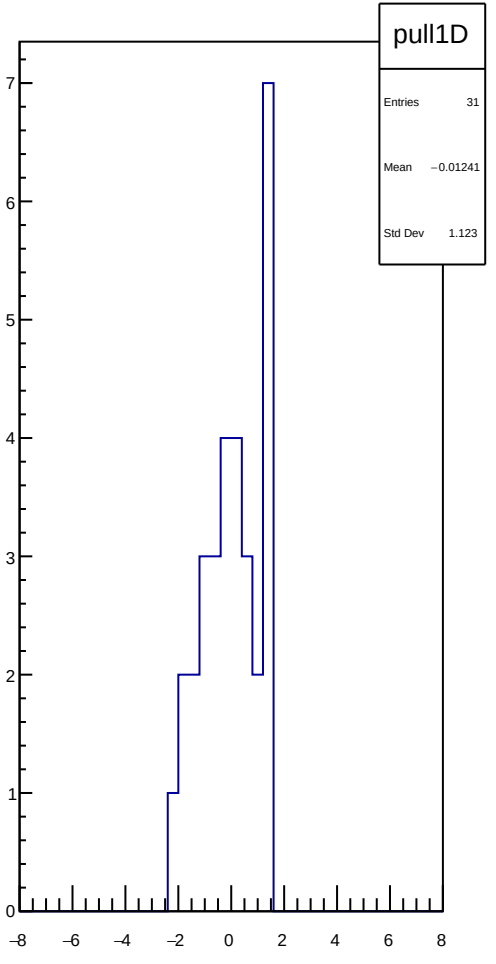

pull1D
Entries 31
Mean −0.01241
Std Dev 1.123
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

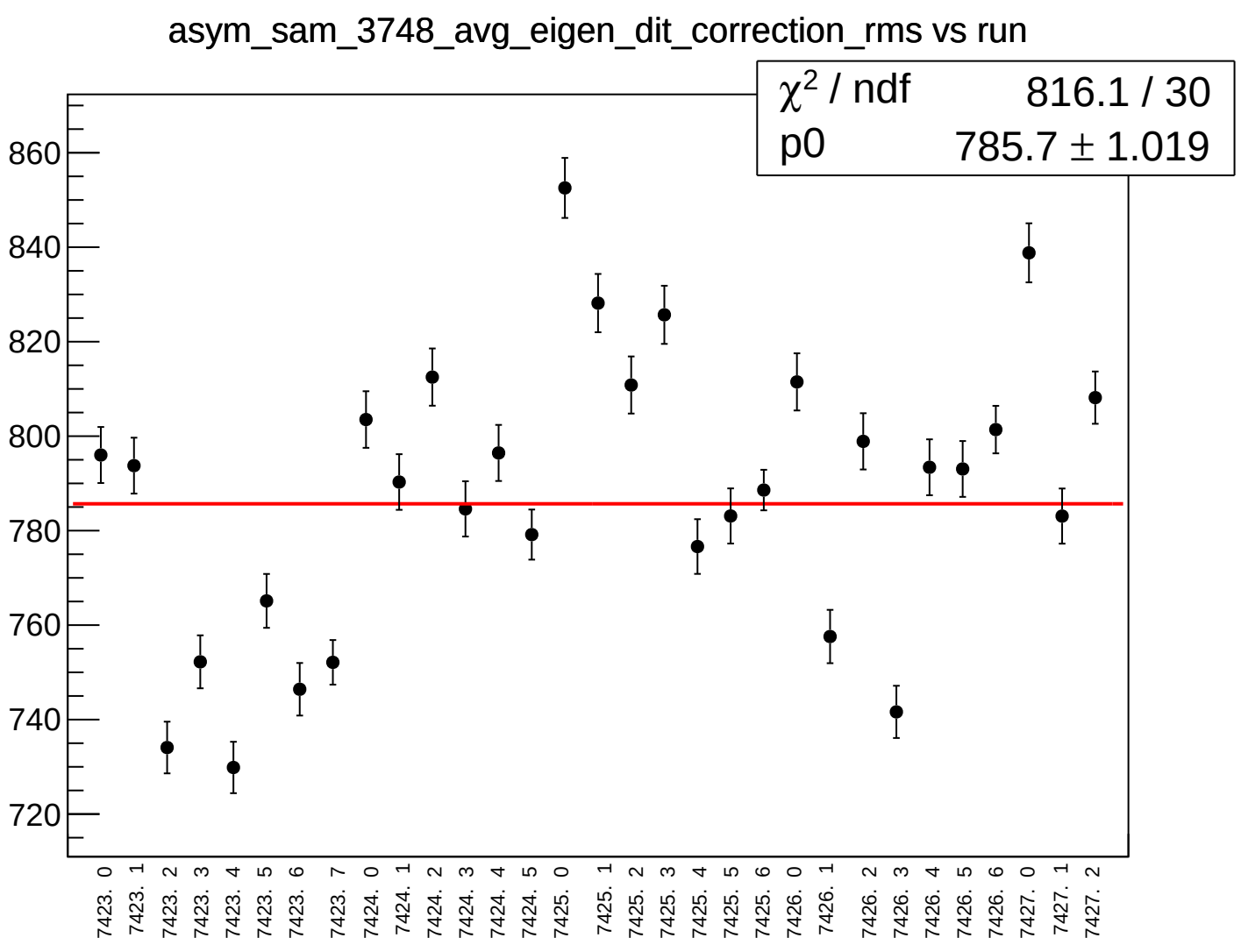

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 816.1 / 30
p0 785.7 ± 1.019
860
840
820
800
780
760
740
720
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

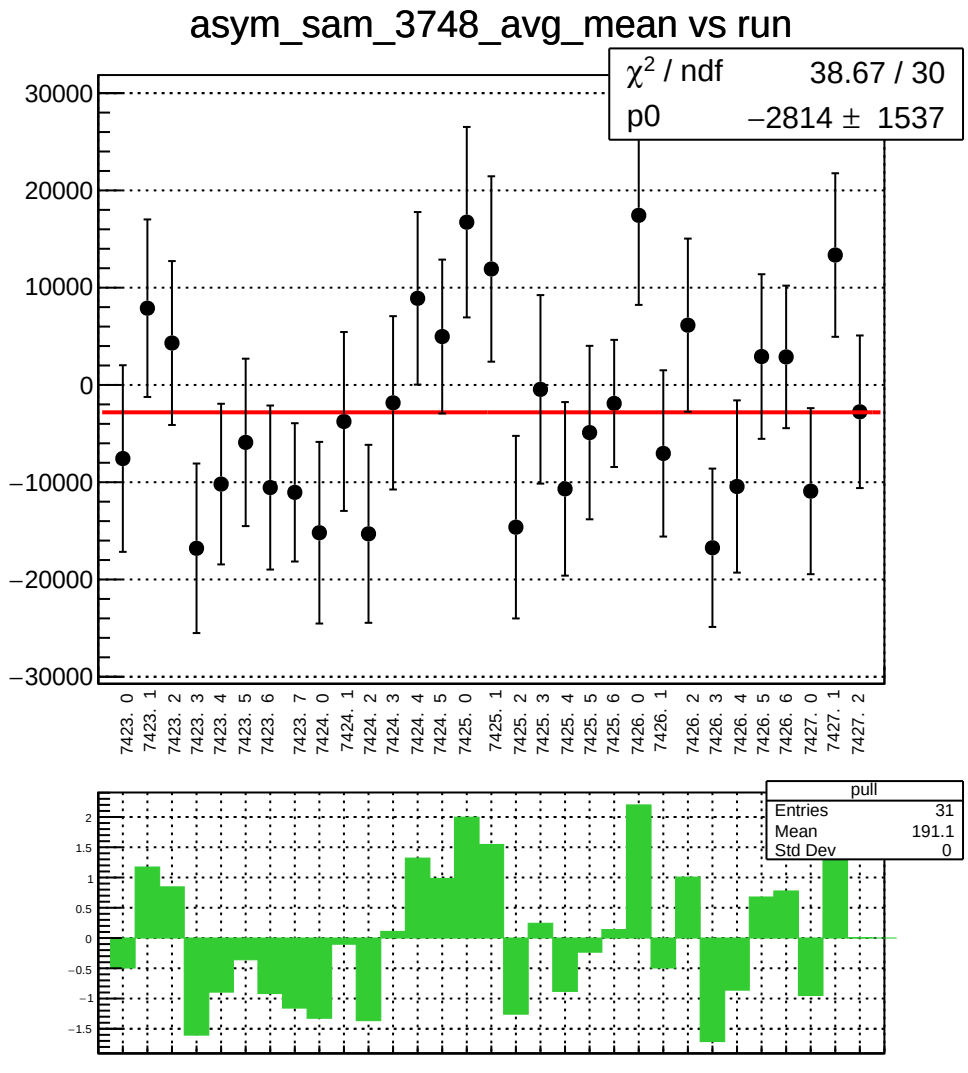

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 25.34 / 30
p0 −469.7 ± 341.2
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 80.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01364
Std Dev 0.904
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

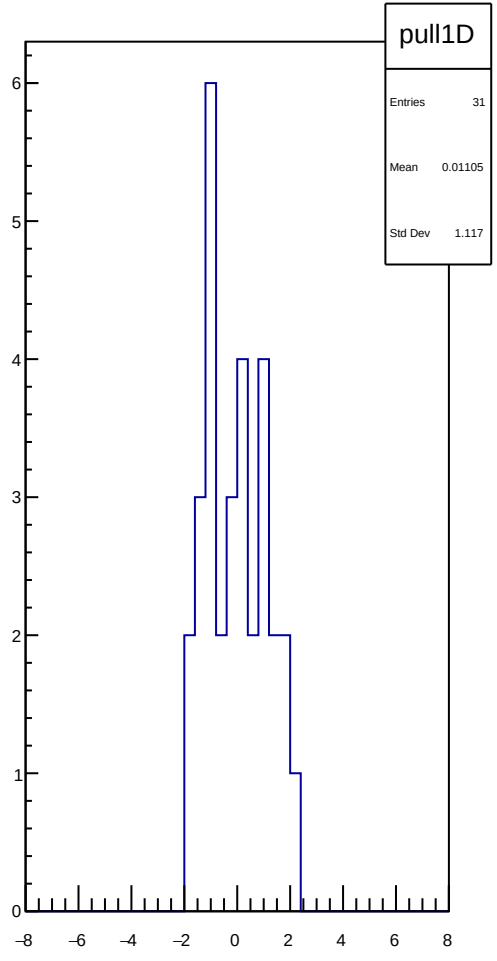

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 4235 / 30
p0 185.5 ± 0.2412
250
240
230
220
210
200
190
180
170
160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

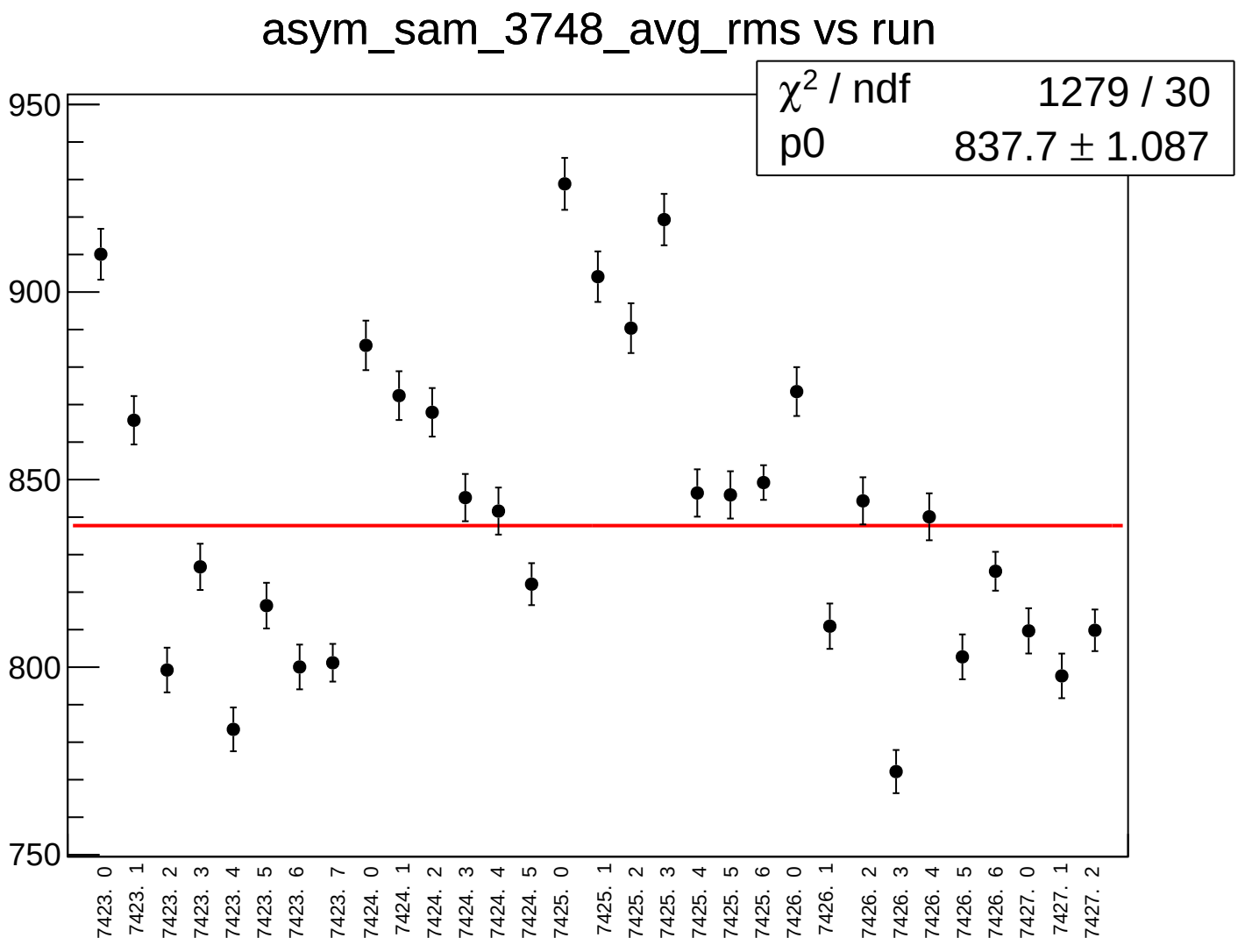

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.13 / 30
p0 2285 ± 1441
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 202.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

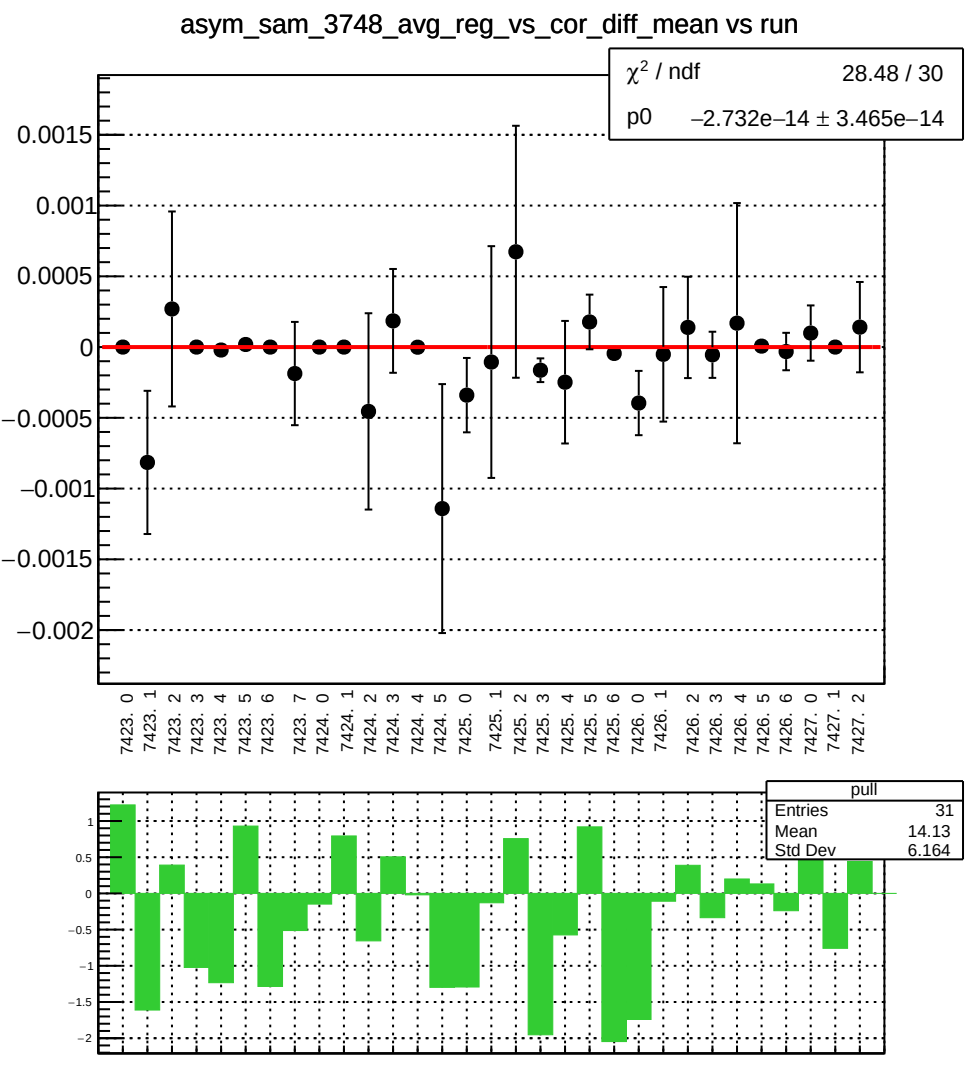

pull1D
Entries 31
Mean −0.01241
Std Dev 1.123
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

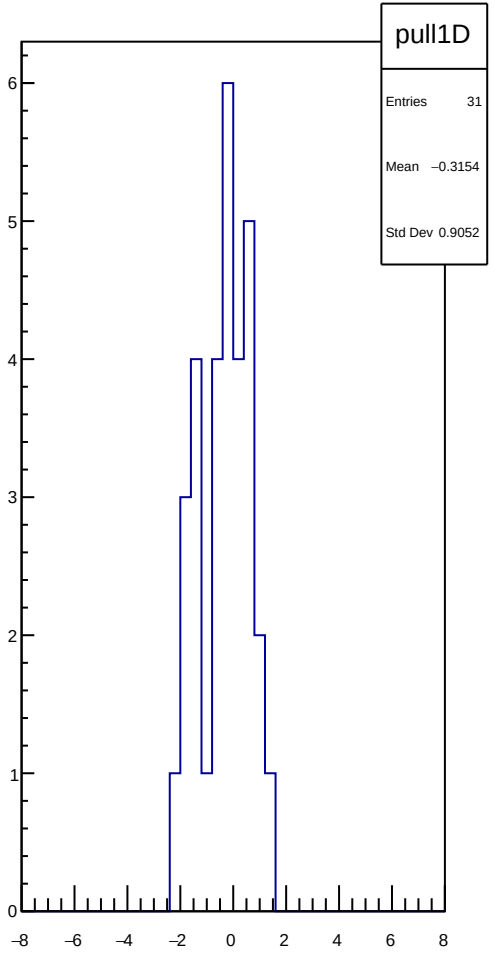

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 816.1 / 30
p0 785.7 ± 1.019
860
840
820
800
780
760
740
720
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

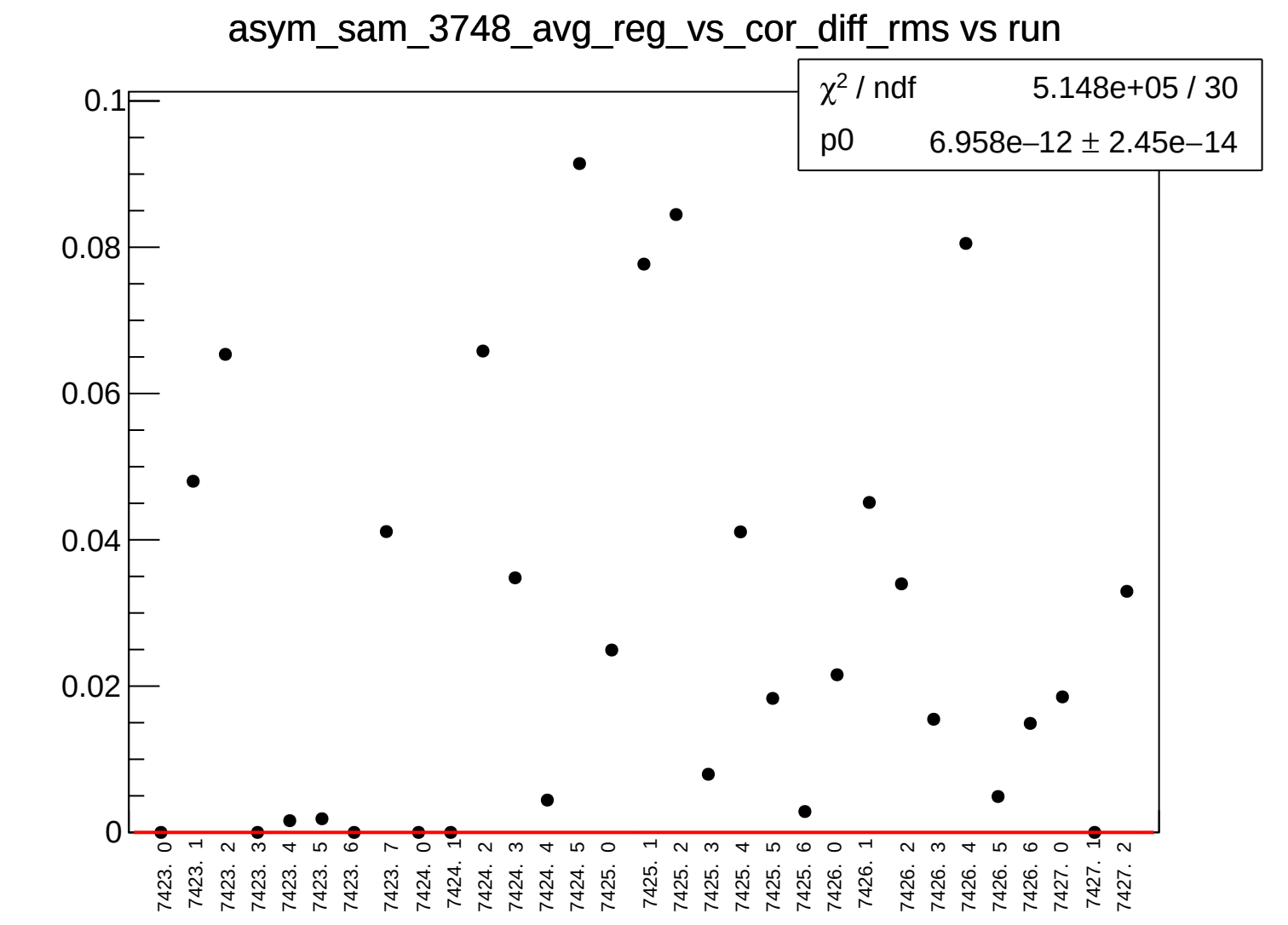

asym_sam_3748_avg_mean vs run
χ² / ndf 38.67 / 30
p0 −2814 ± 1537
30000
20000
10000
0
−10000
−20000
−30000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 191.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

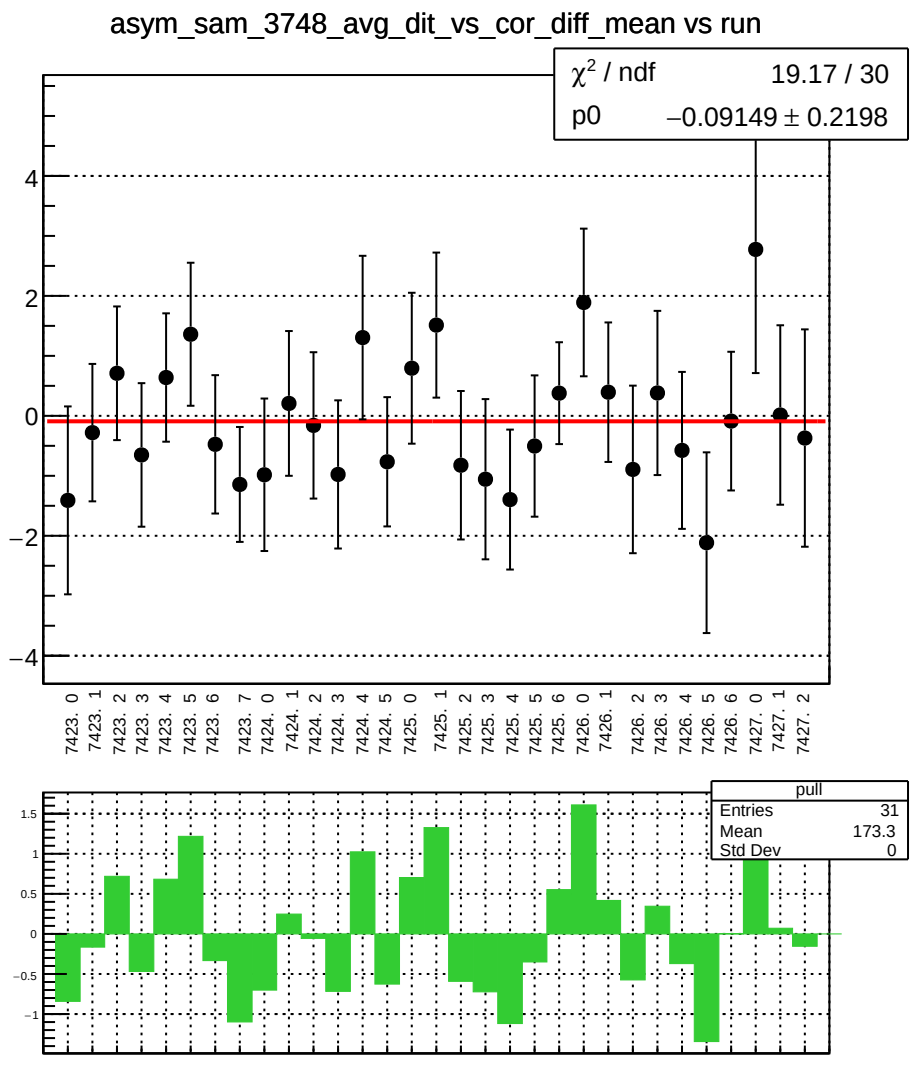

pull1D
Entries 31
Mean 0.01105
Std Dev 1.117
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

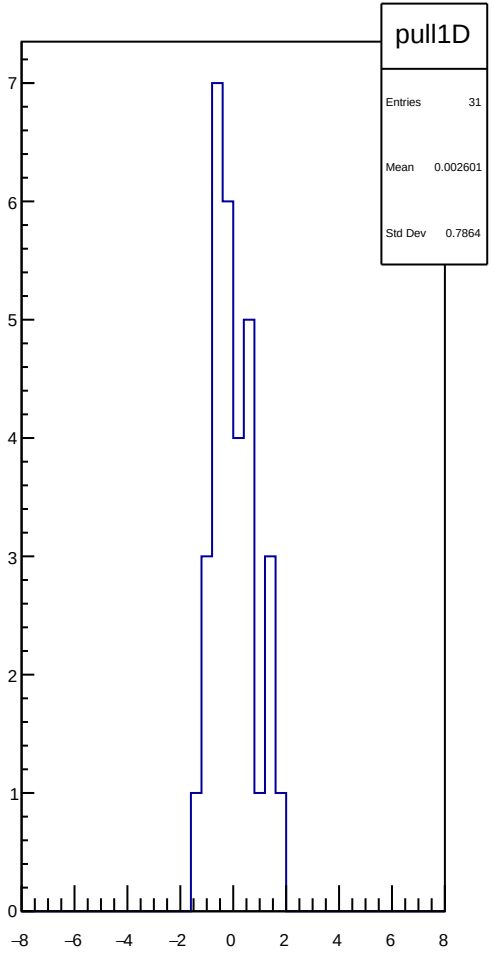

asym_sam_3748_avg_rms vs run
χ^2 / ndf 1279 / 30
p0 837.7 ± 1.087
950
900
850
800
750
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

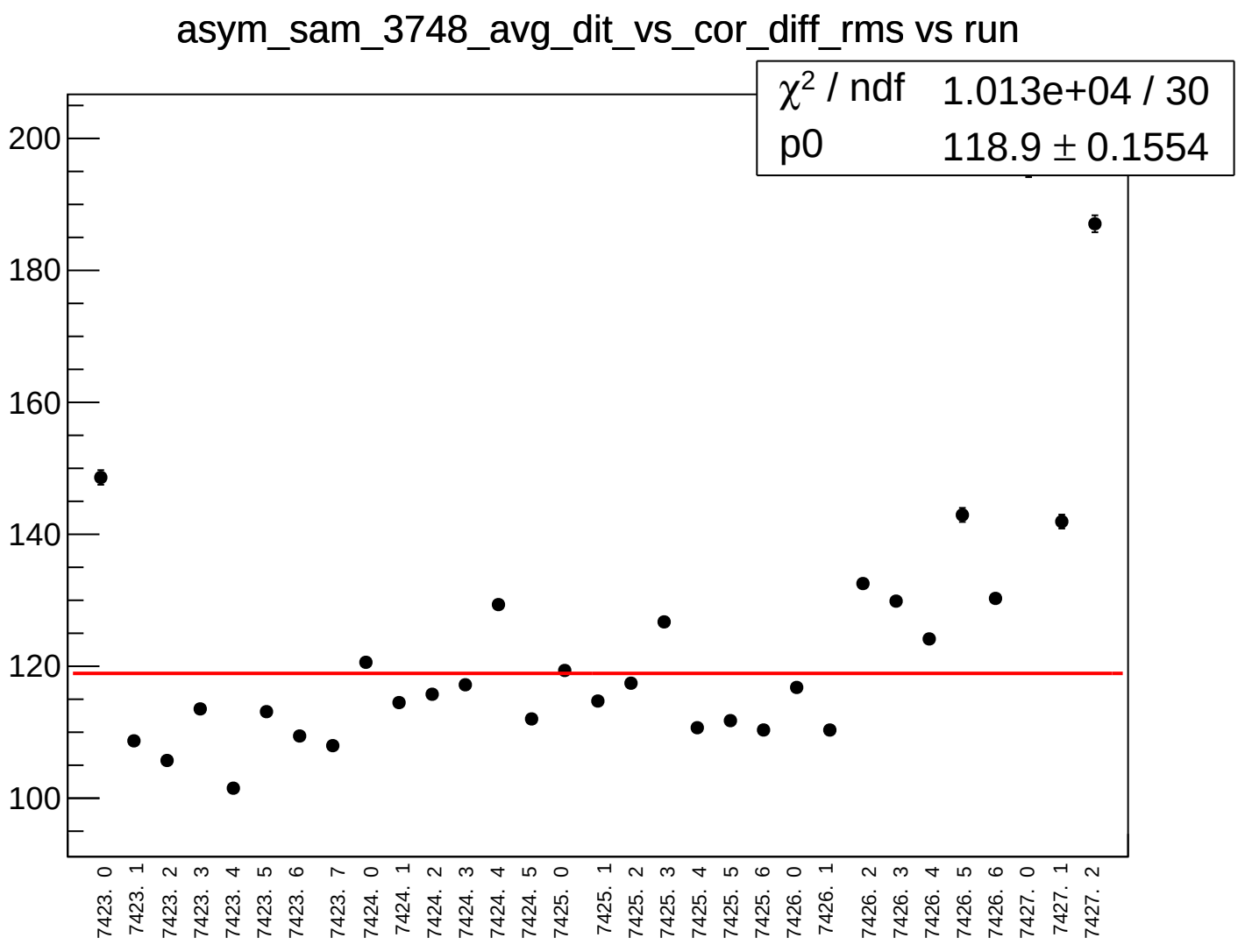

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.48 / 30
p0 −2.732e−14 ± 3.465e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 14.13
Std Dev 6.164
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.3154
Std Dev 0.9052
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

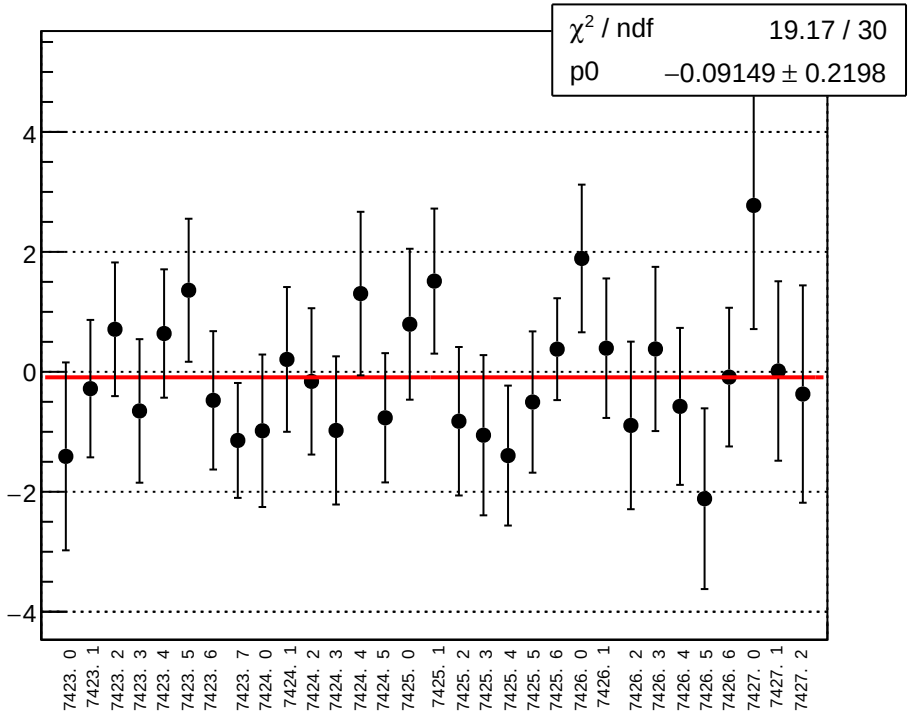

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.148e+05 / 30
p0 6.958e−12 ± 2.45e−14
0.1
0.08
0.06
0.04
0.02
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

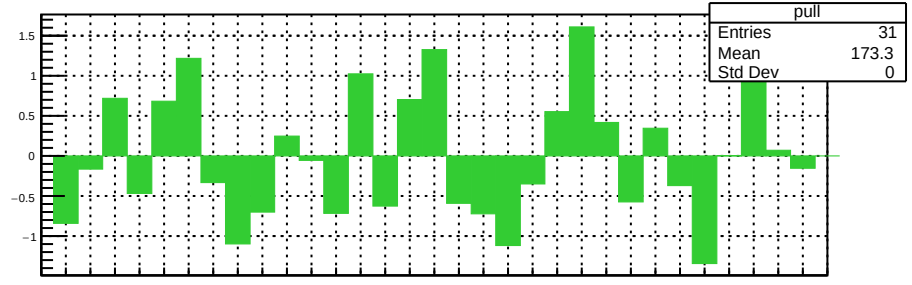

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 19.17 / 30
p0 −0.09149 ± 0.2198
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 173.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

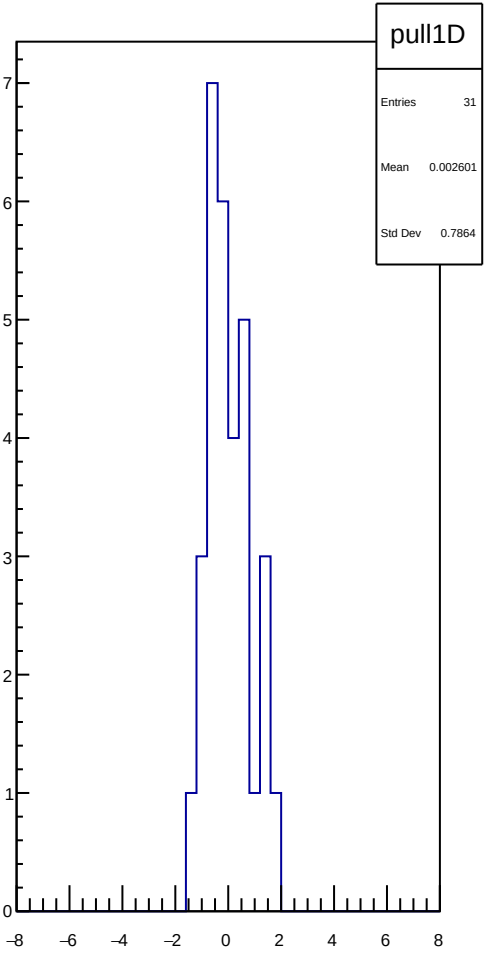

pull1D
Entries 31
Mean 0.002601
Std Dev 0.7864
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

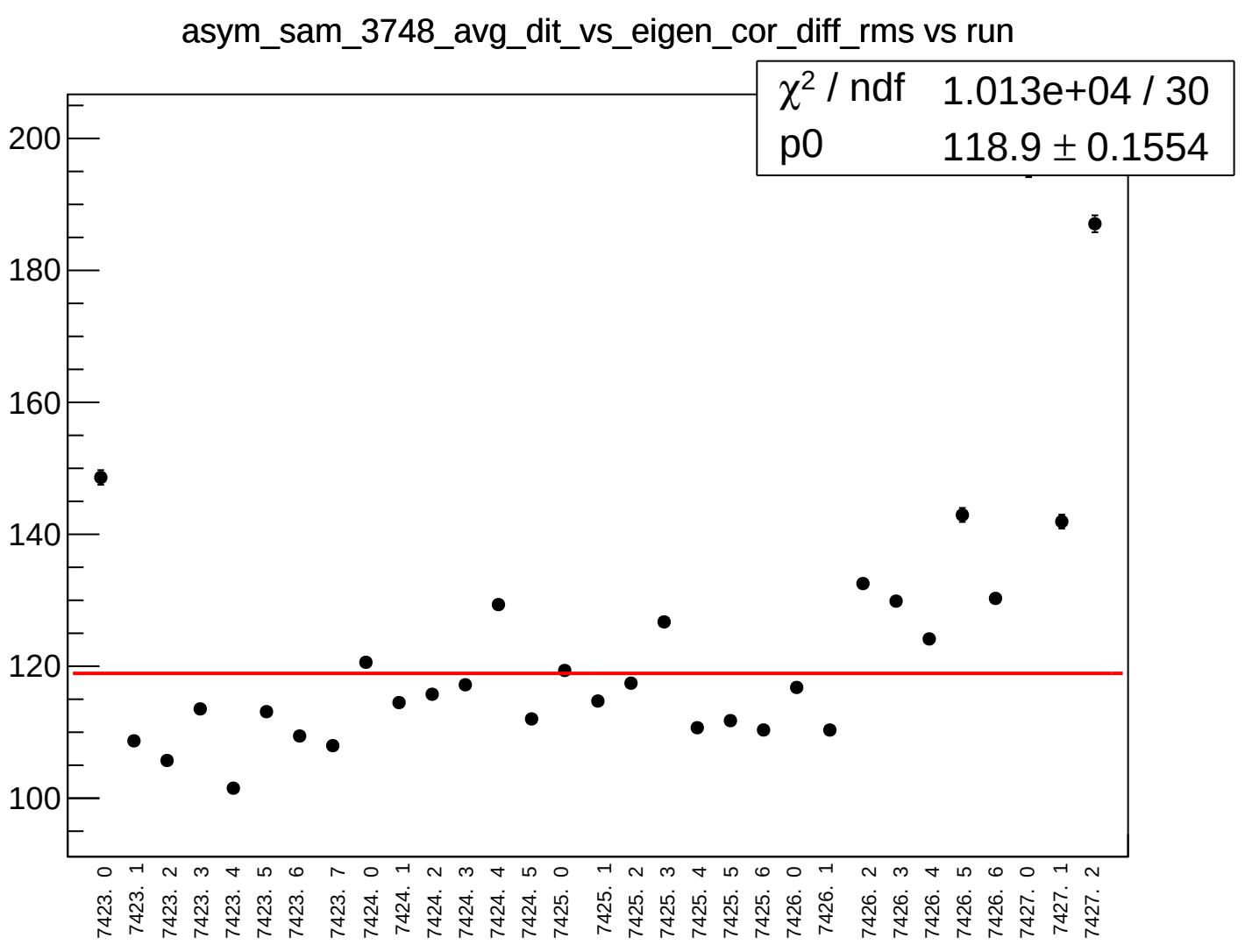

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.013e+04 / 30
p0 118.9 ± 0.1554
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

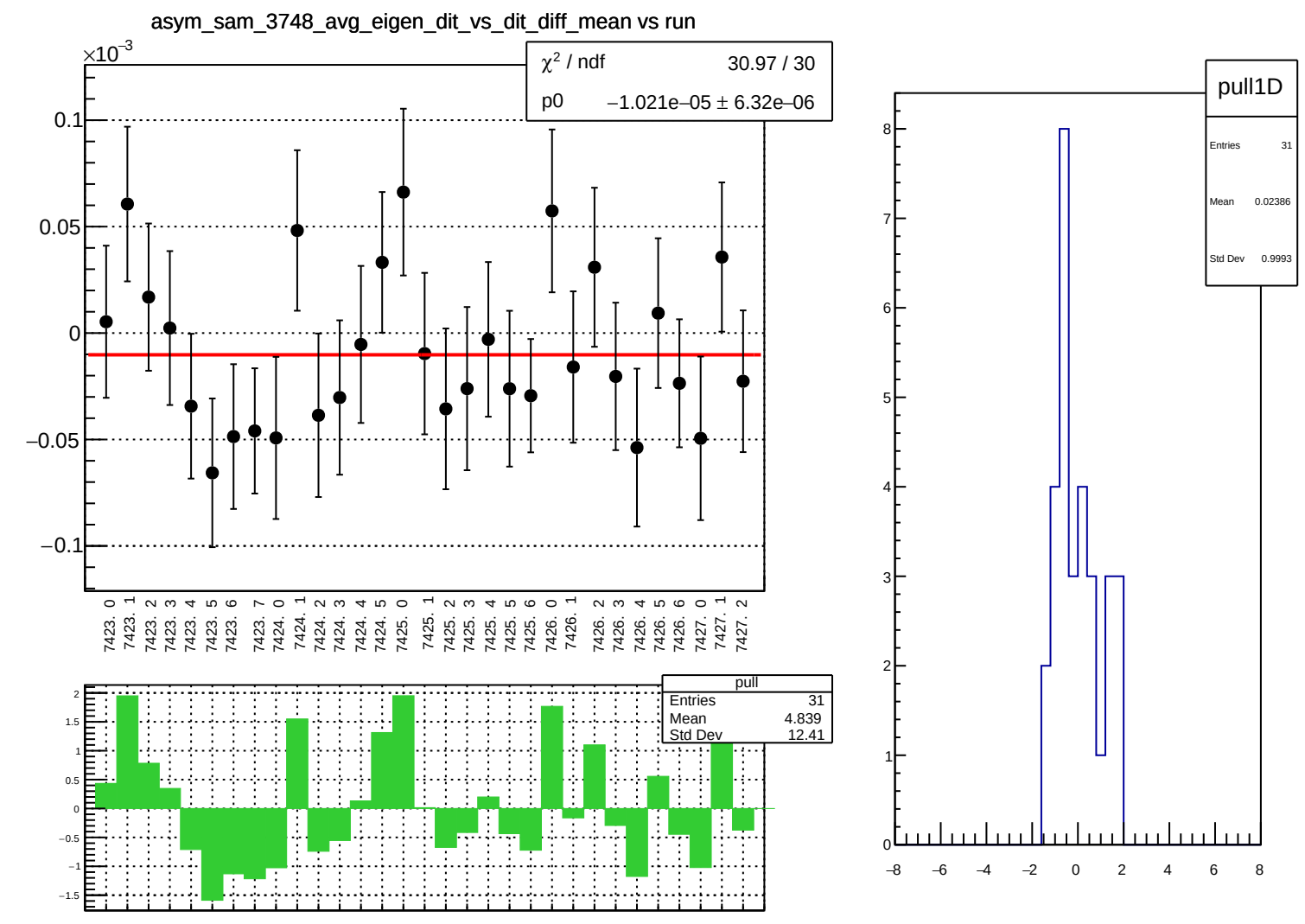
asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run

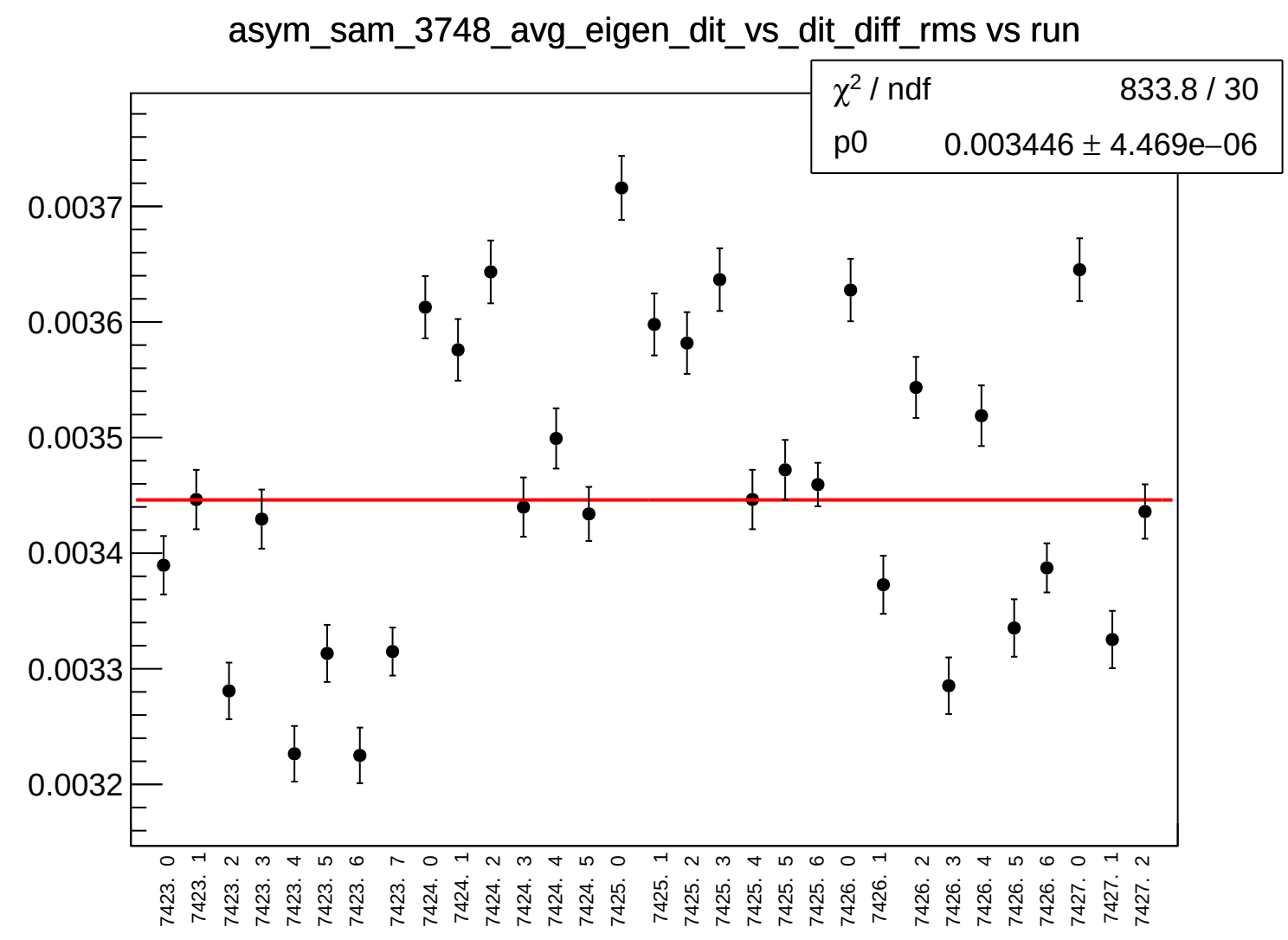




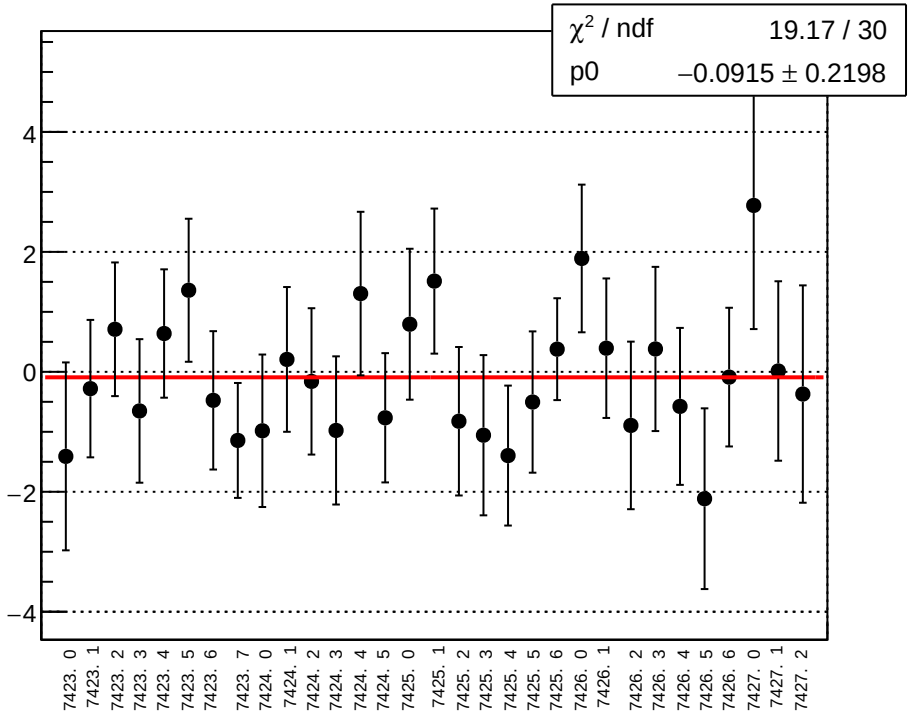


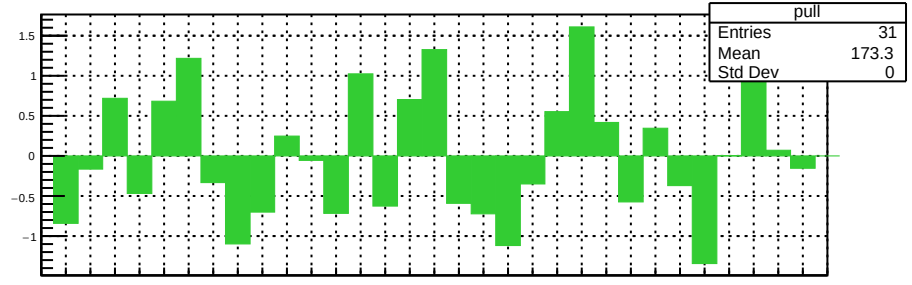

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.013e+04 / 30
p0 118.9 ± 0.1554
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

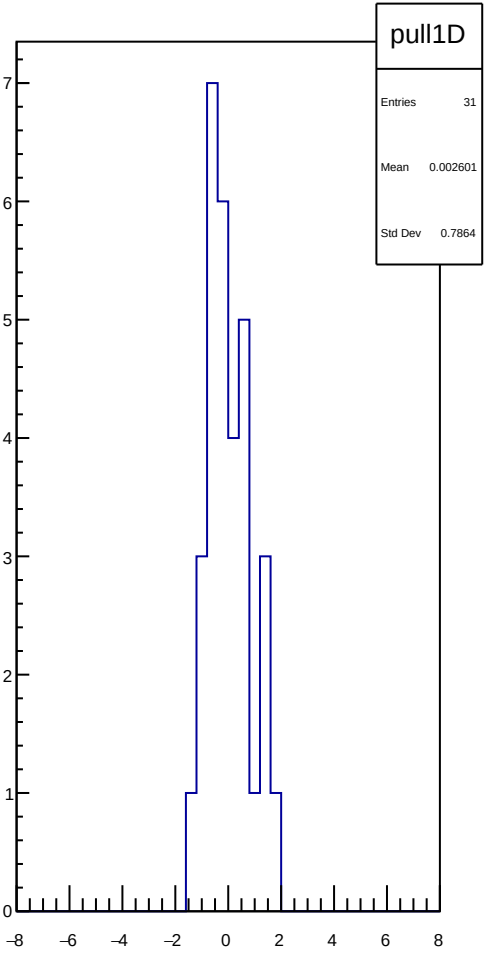

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.97 / 30
p0 −1.021e−05 ± 6.32e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 4.839
Std Dev 12.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.02386
Std Dev 0.9993
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

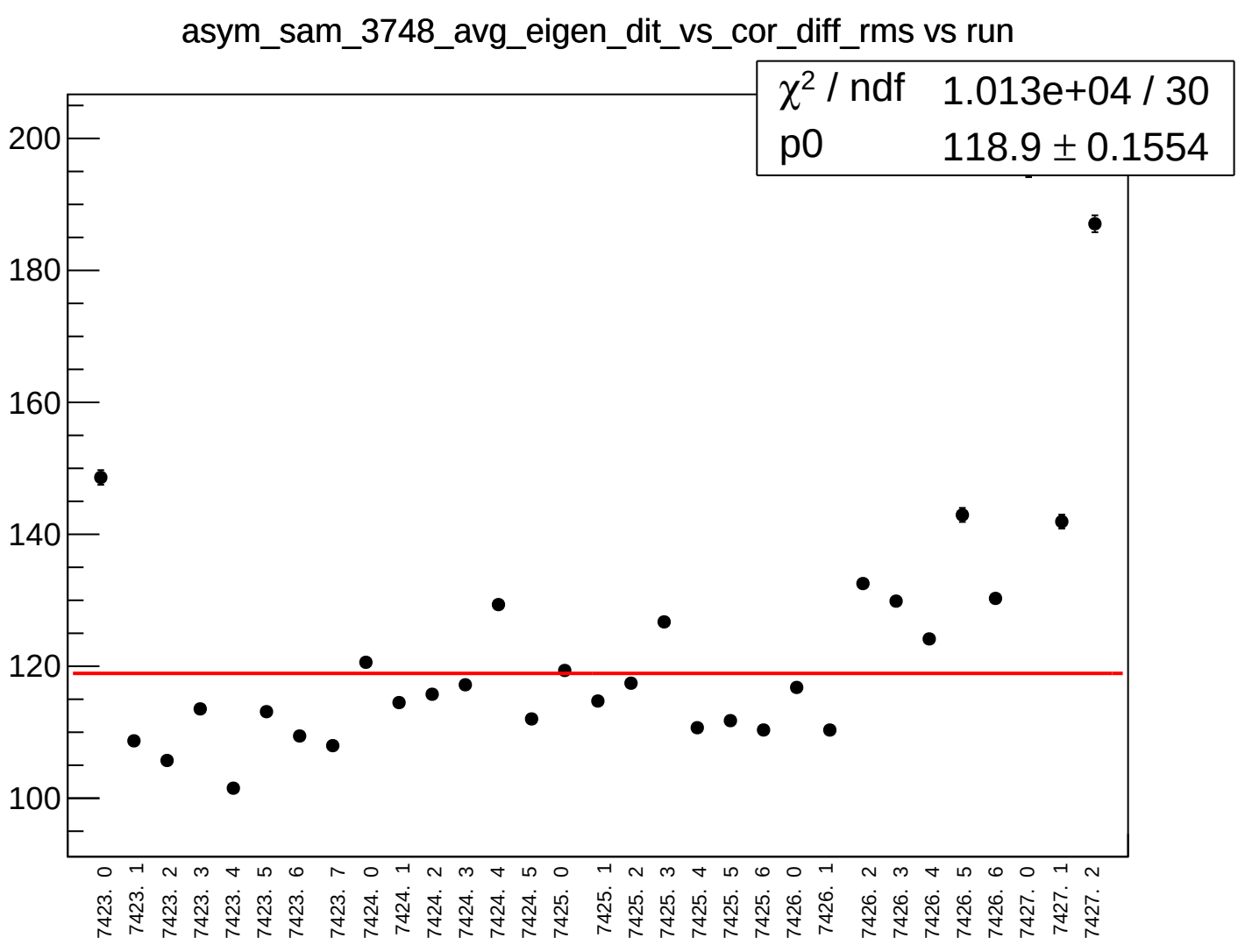

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 833.8 / 30
p0 0.003446 ± 4.469e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run

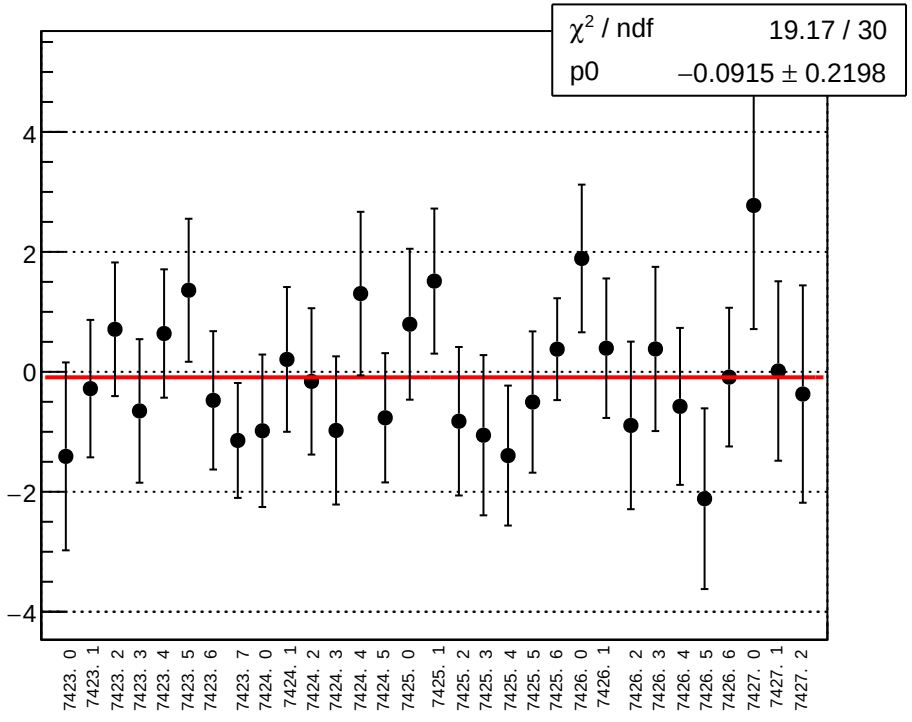


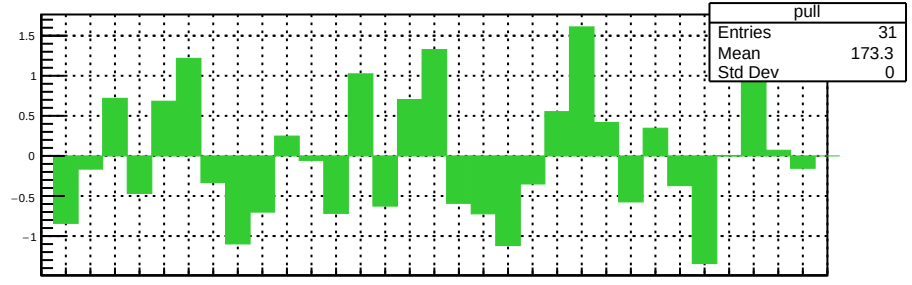


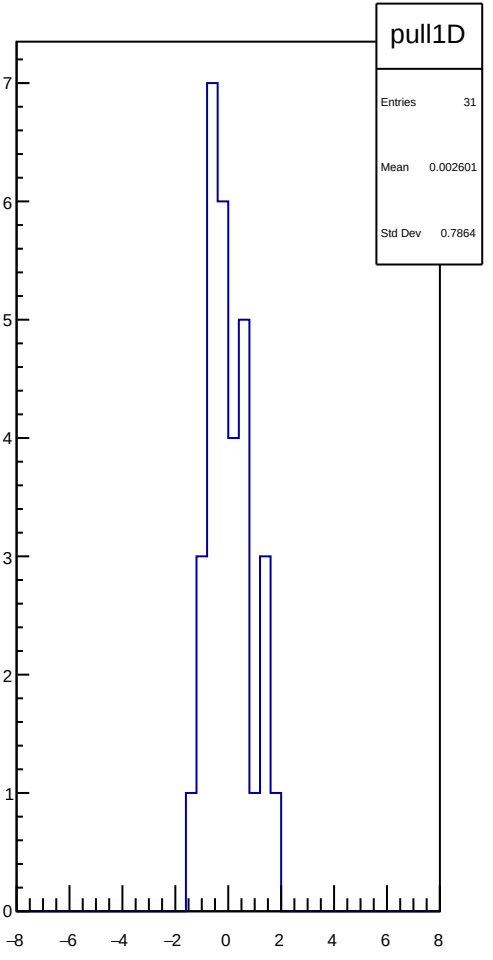


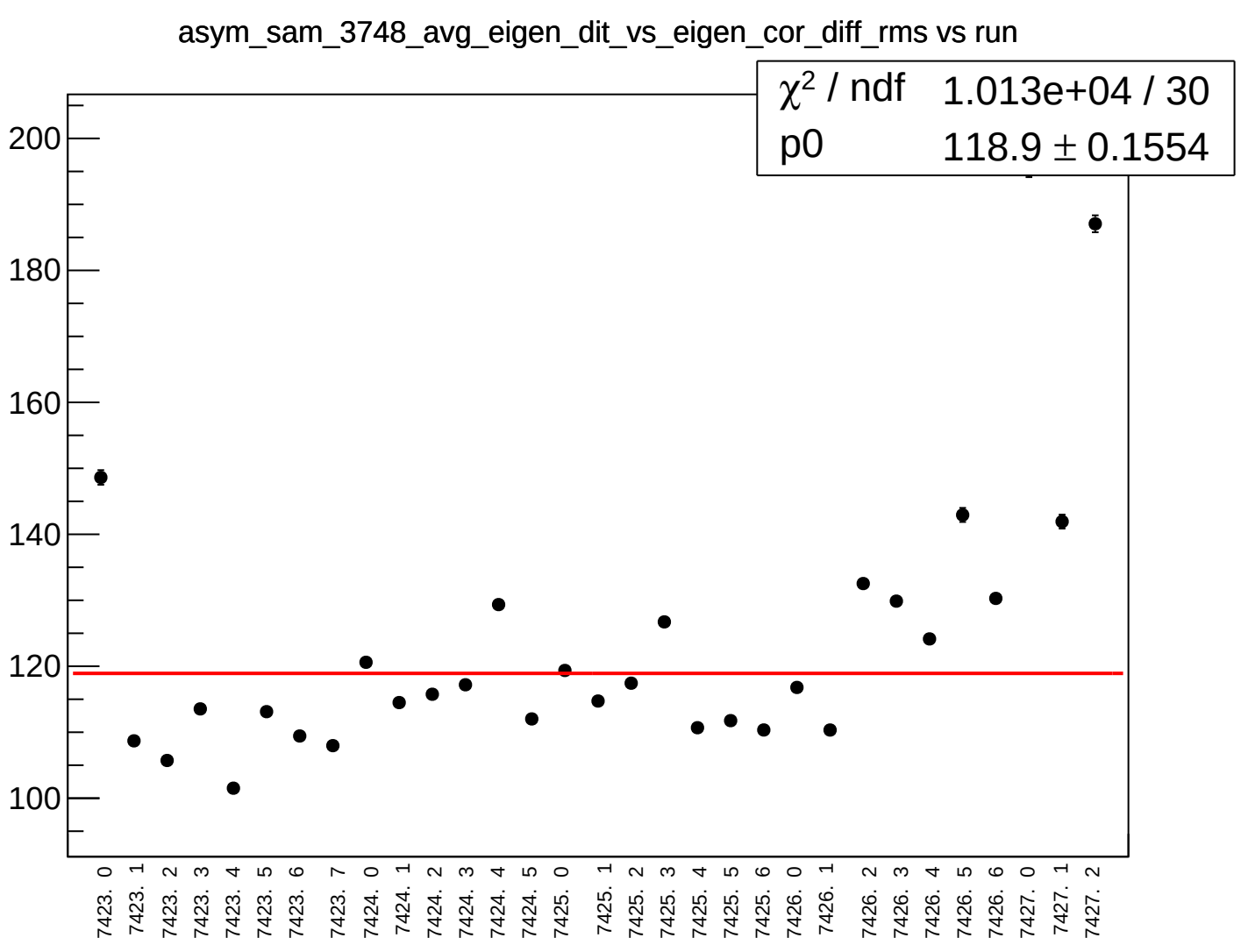

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.013e+04 / 30
p0 118.9 ± 0.1554
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

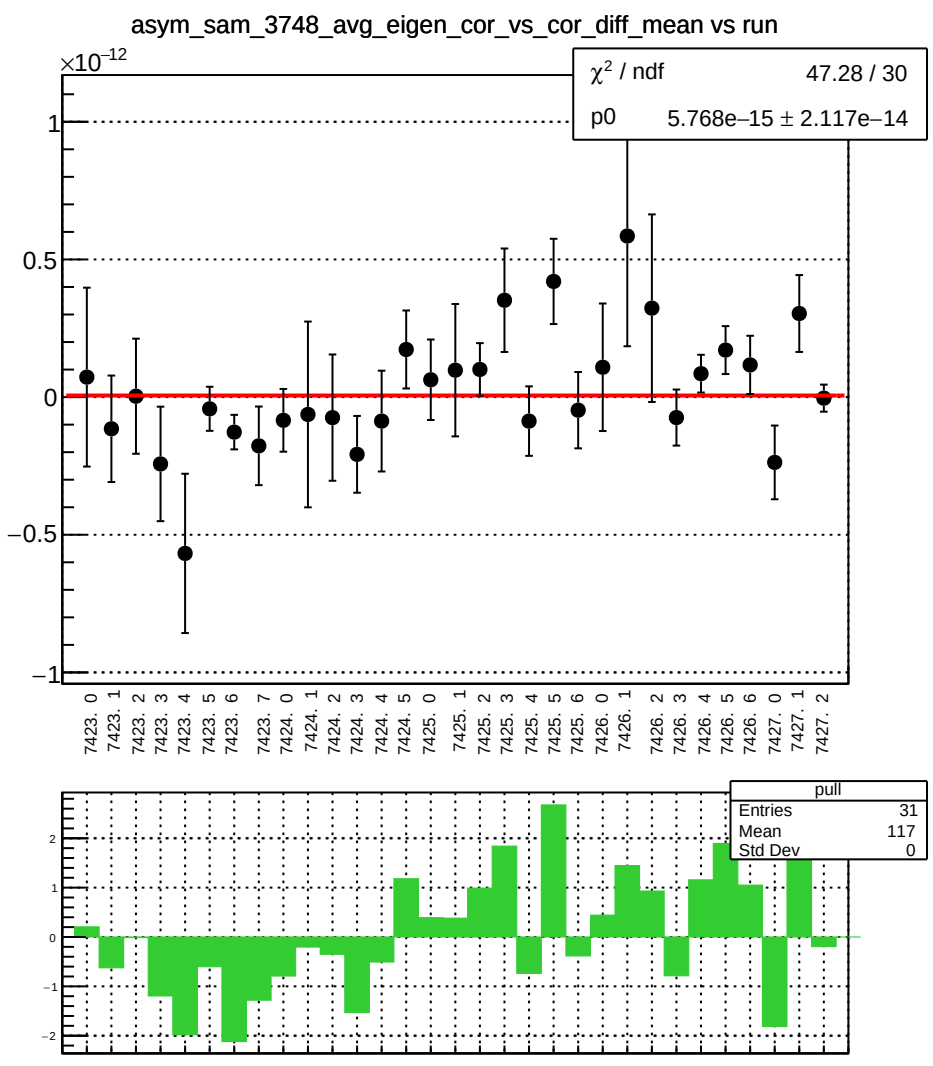
asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

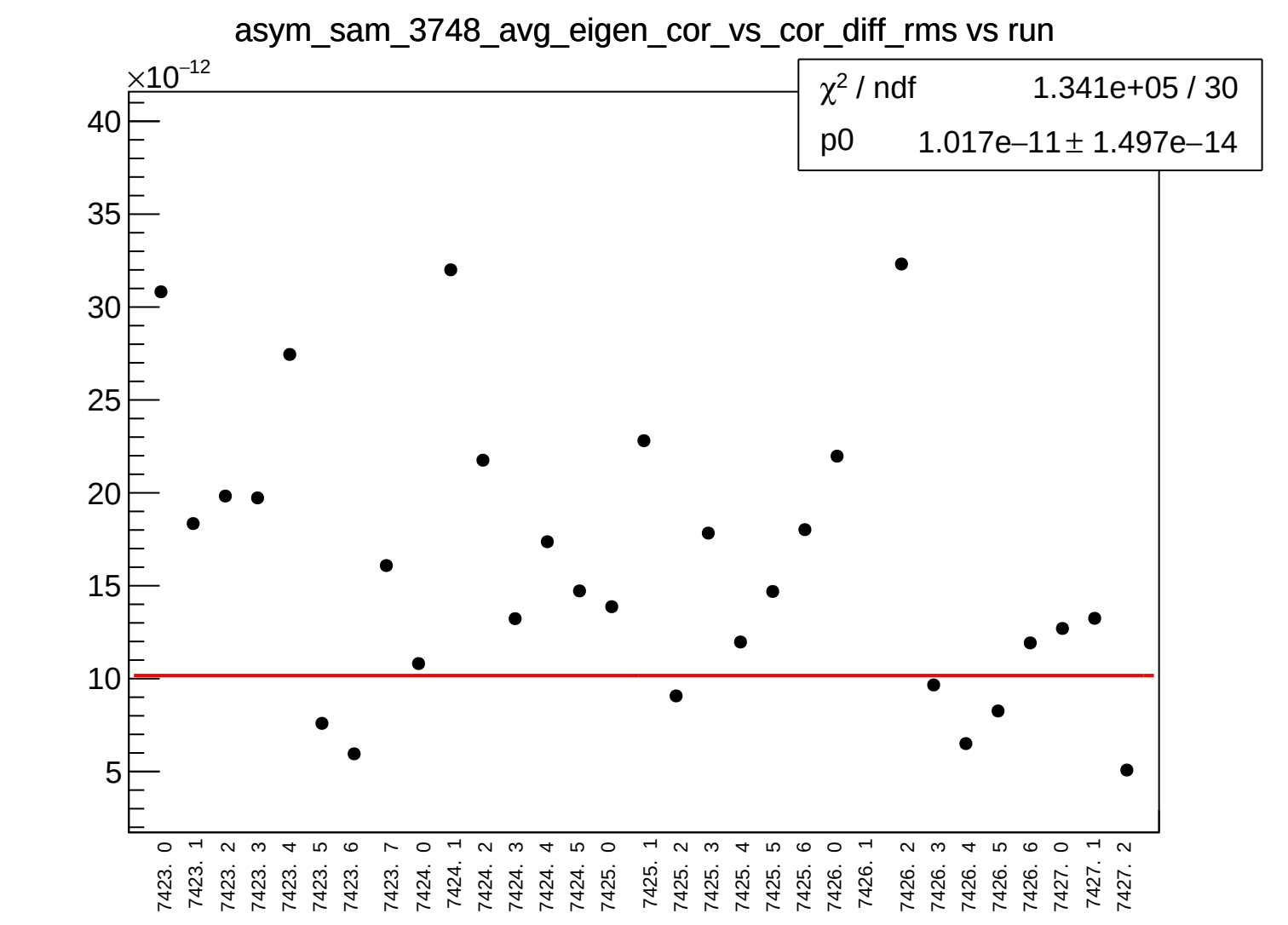


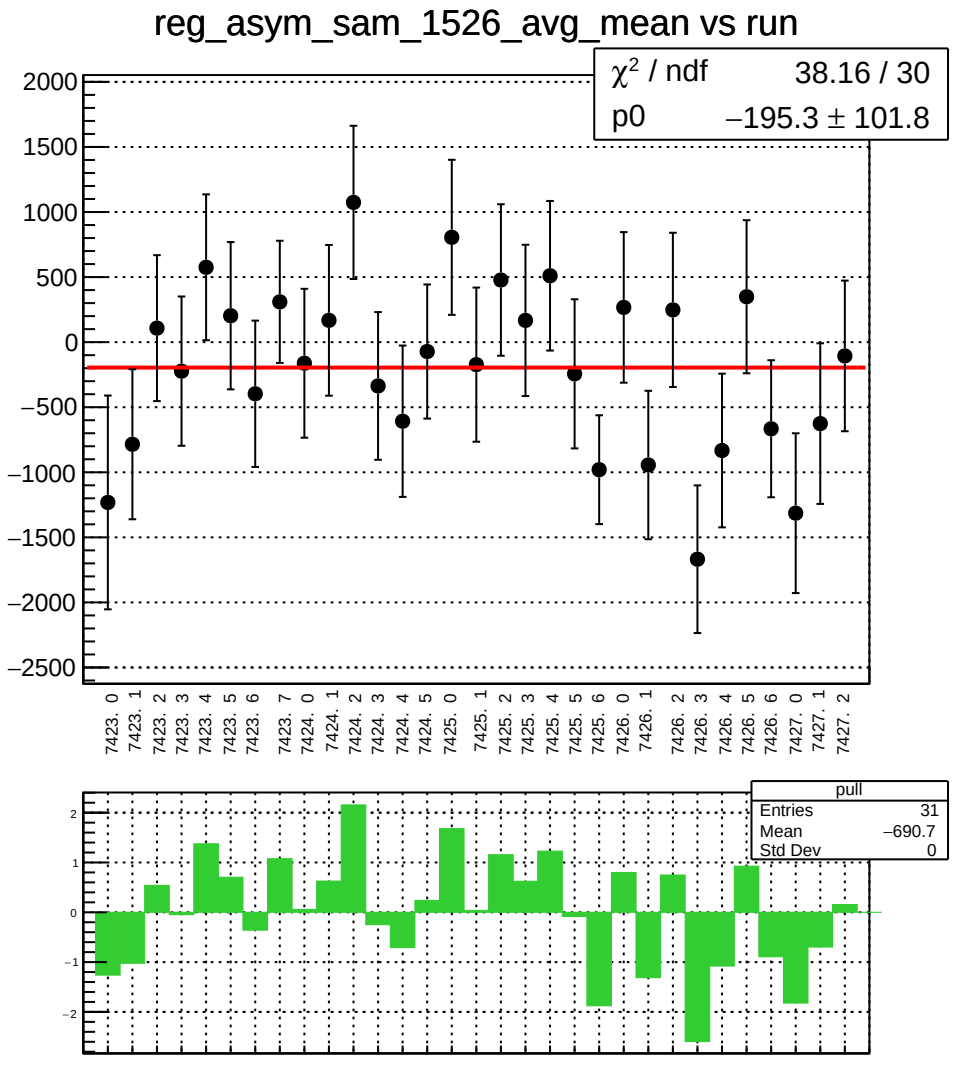


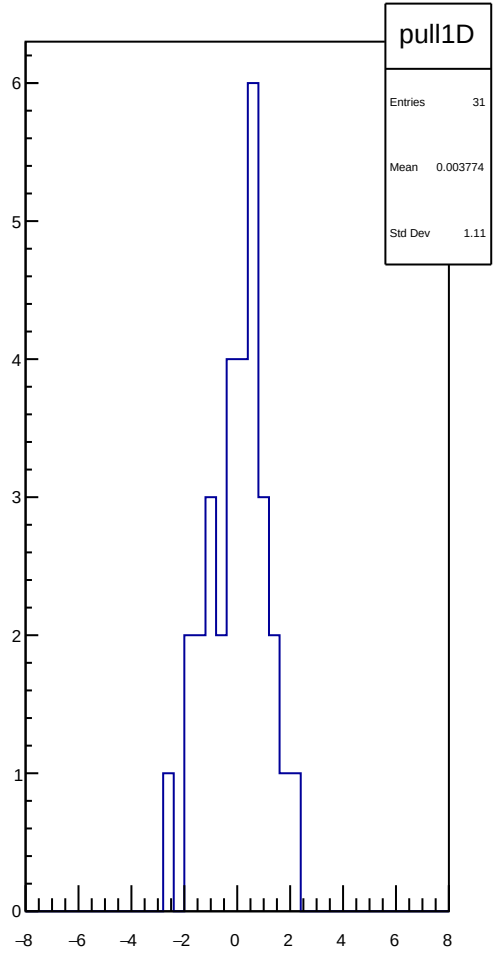


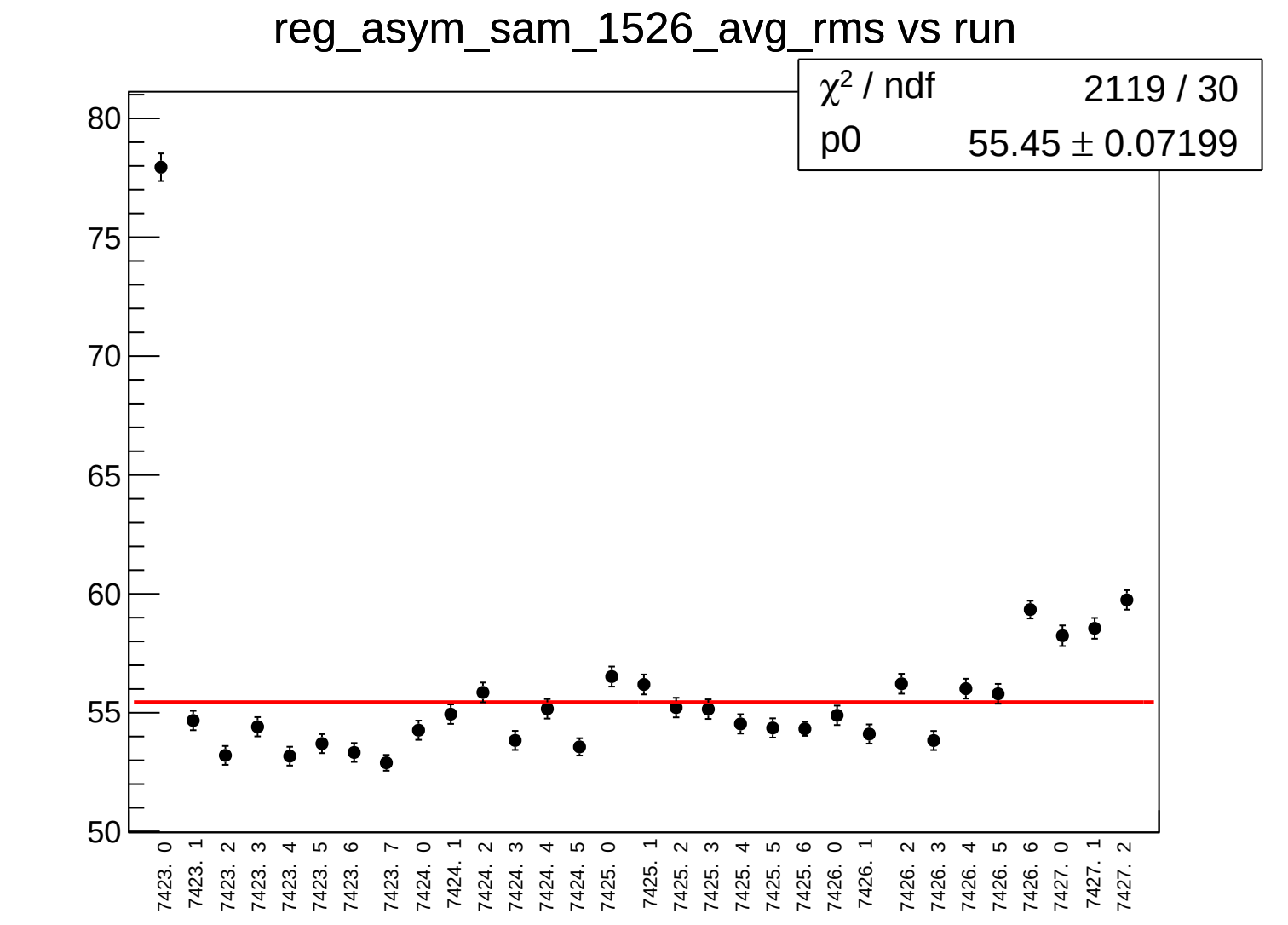

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.013e+04 / 30
p0 118.9 ± 0.1554
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

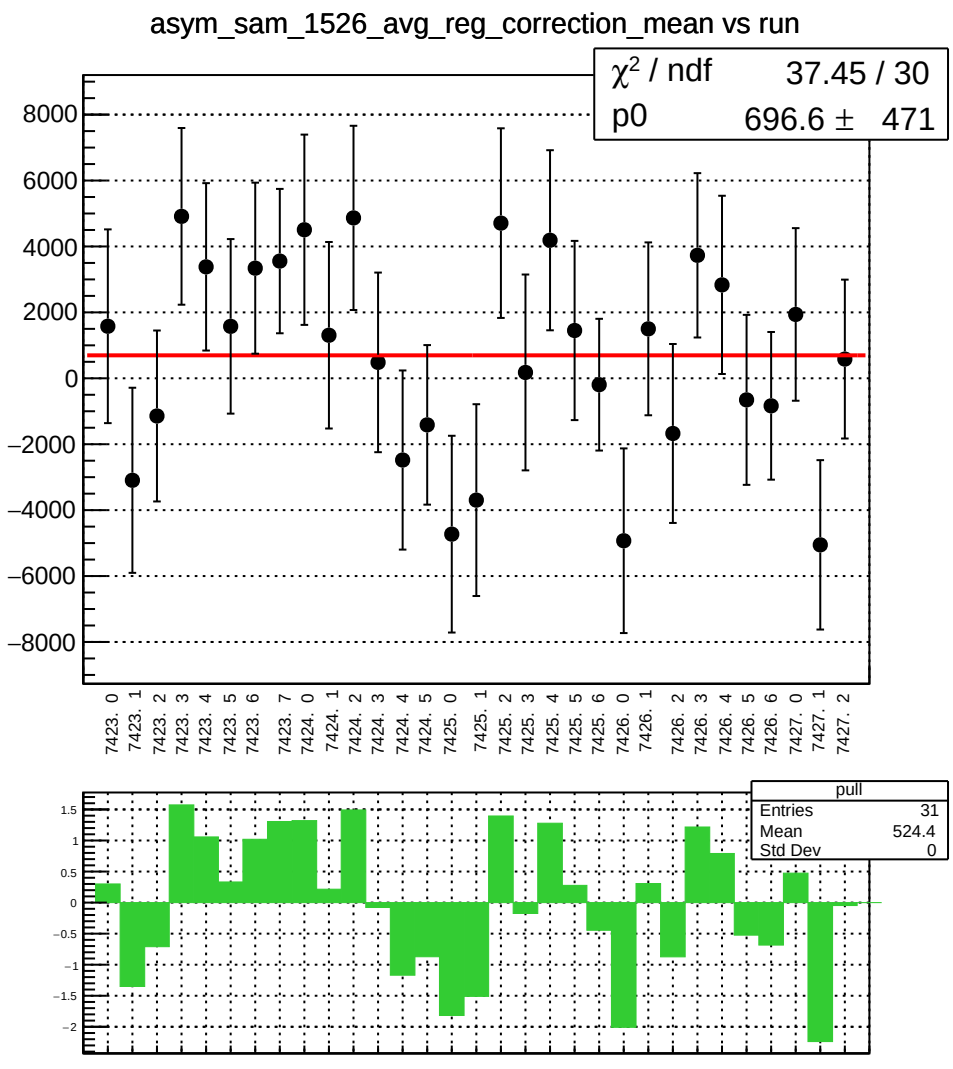

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 47.28 / 30
p0 5.768e−15 ± 2.117e−14
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 117
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.05198
Std Dev 1.234
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

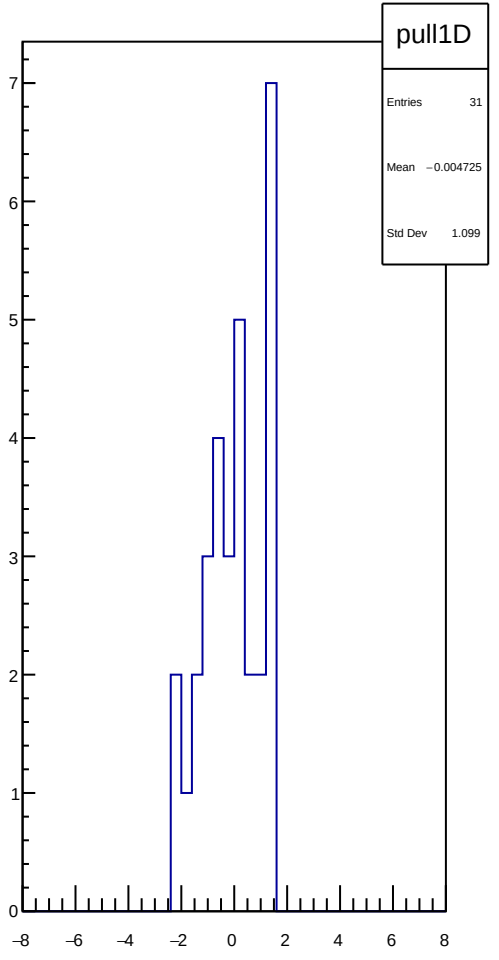

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.341e+05 / 30
p0 1.017e−11 ± 1.497e−14
40
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

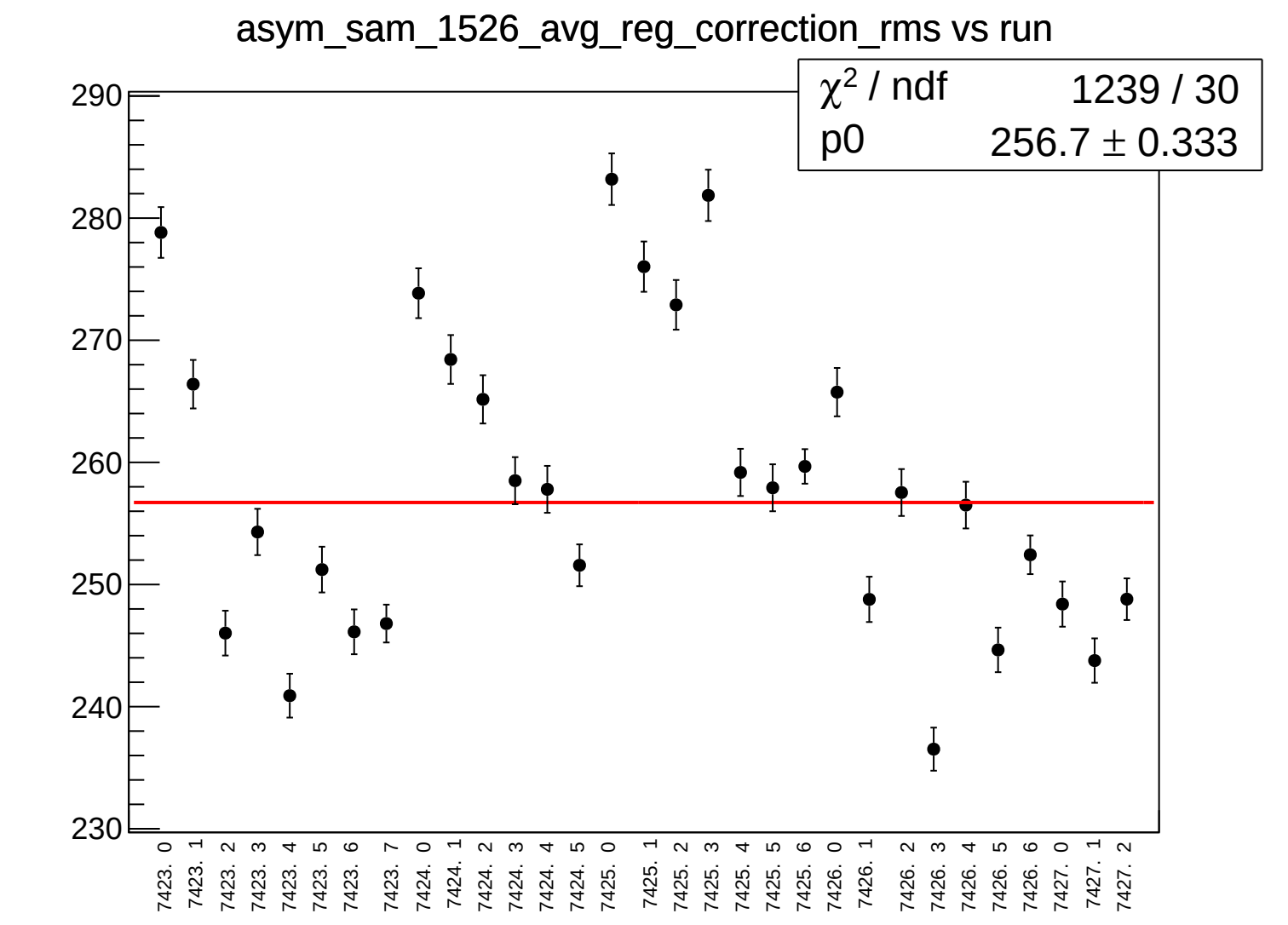

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 38.16 / 30
p0 −195.3 ± 101.8
pull
Entries 31
Mean −690.7
Std Dev 0

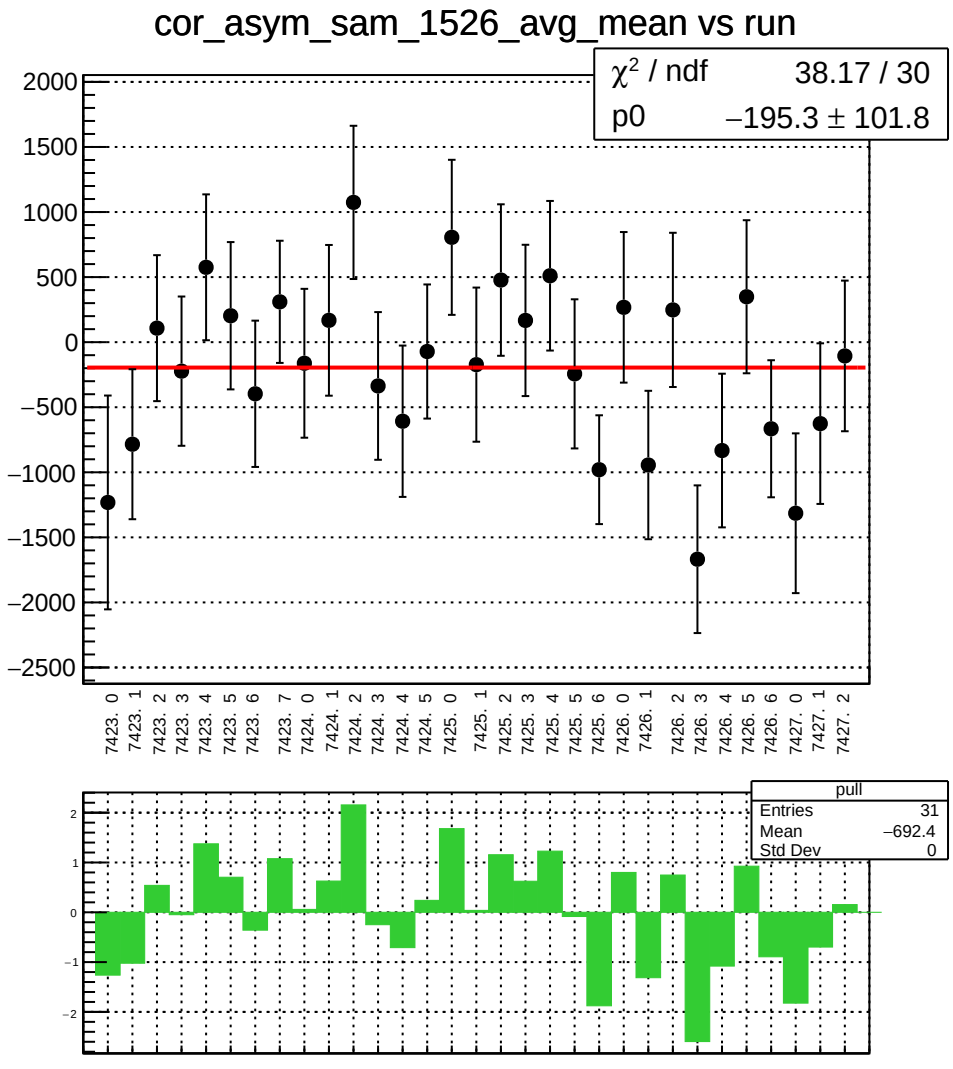

pull1D
Entries 31
Mean 0.003774
Std Dev 1.11

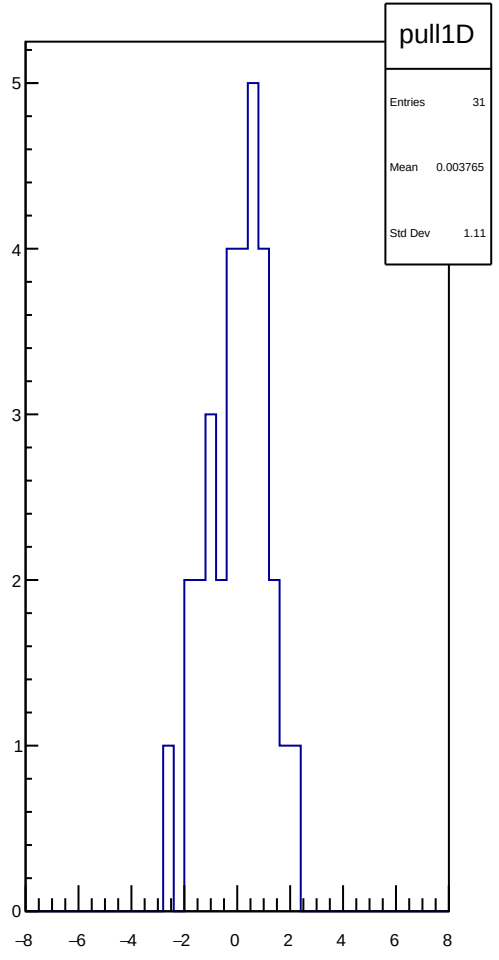

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 2119 / 30
p0 55.45 ± 0.07199
80
75
70
65
60
55
50
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

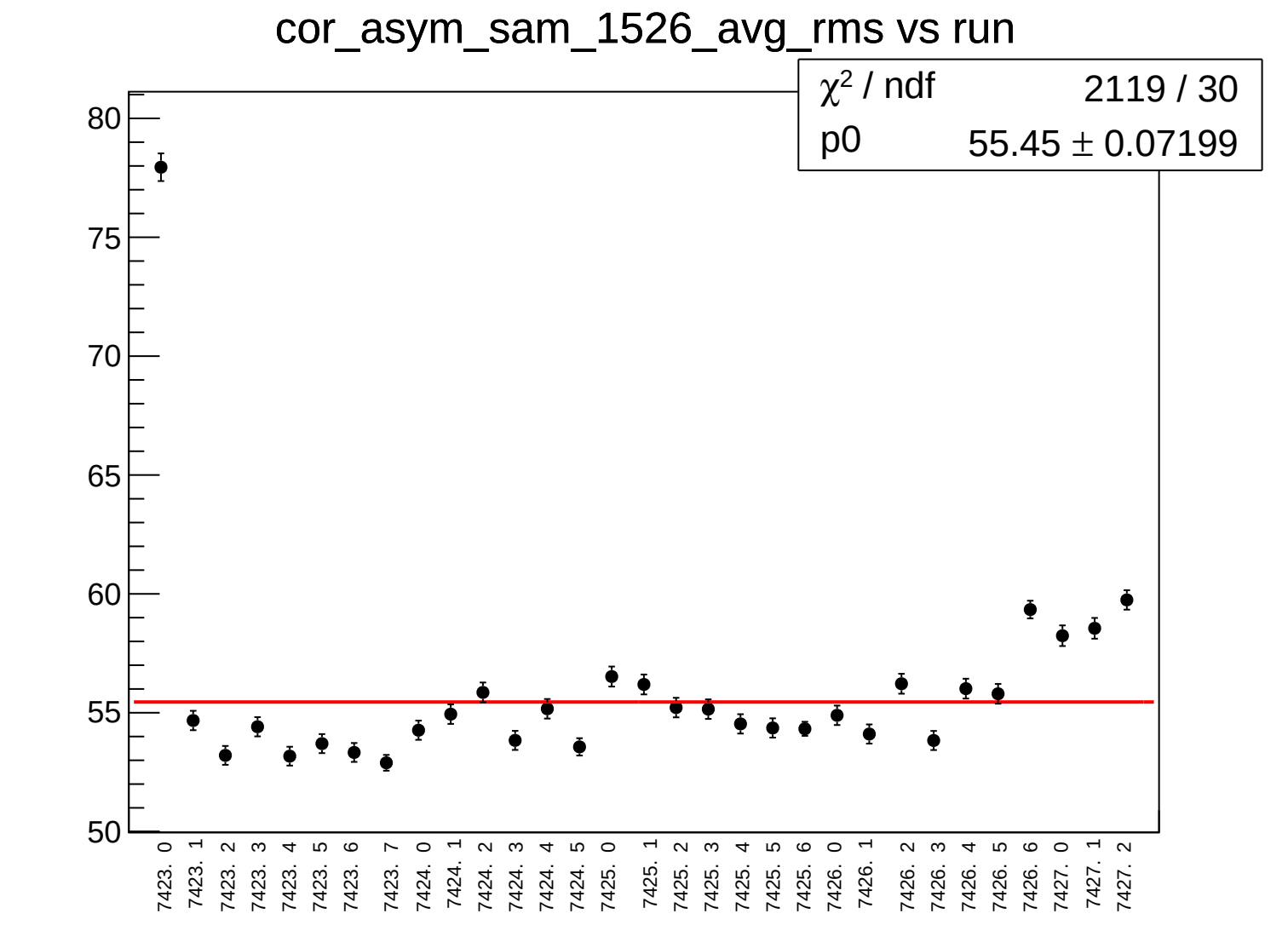

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 37.45 / 30
p0 696.6 ± 471
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 524.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

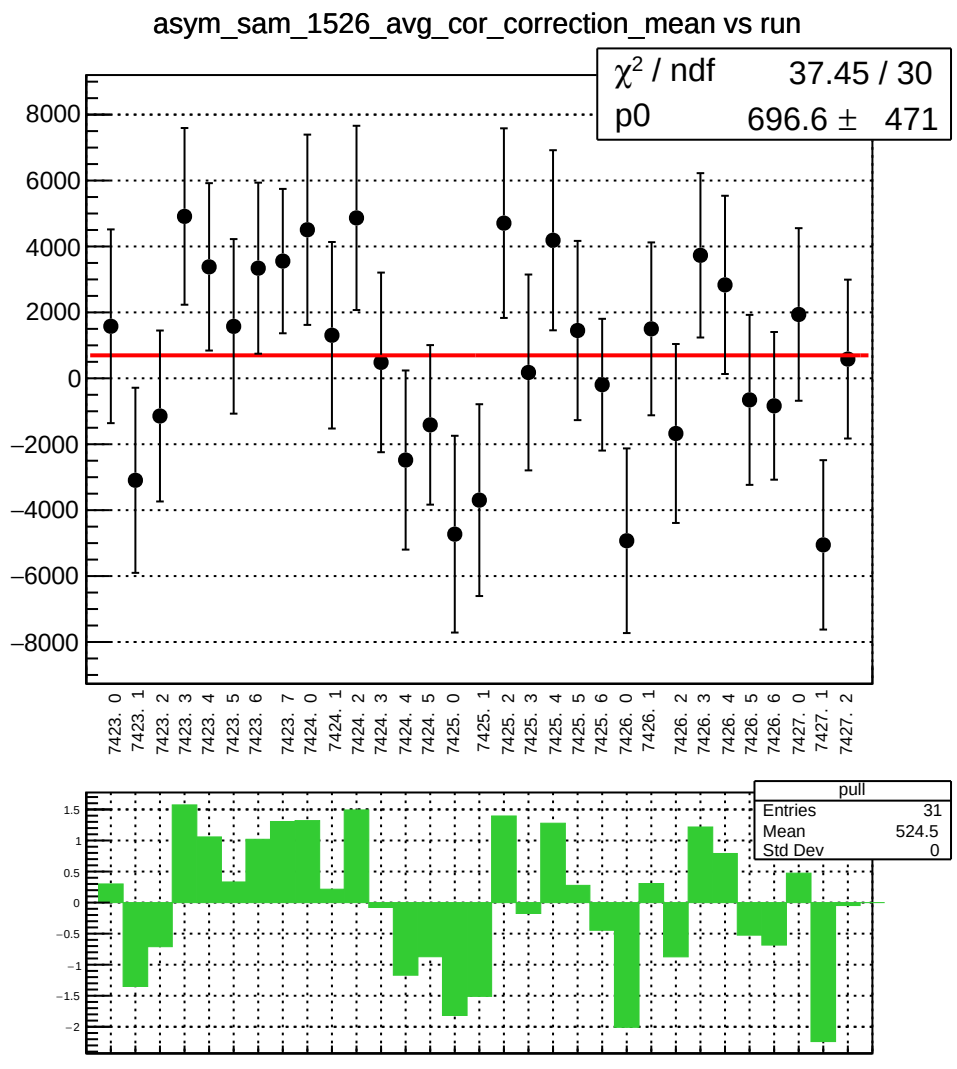

pull1D
Entries 31
Mean −0.004725
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

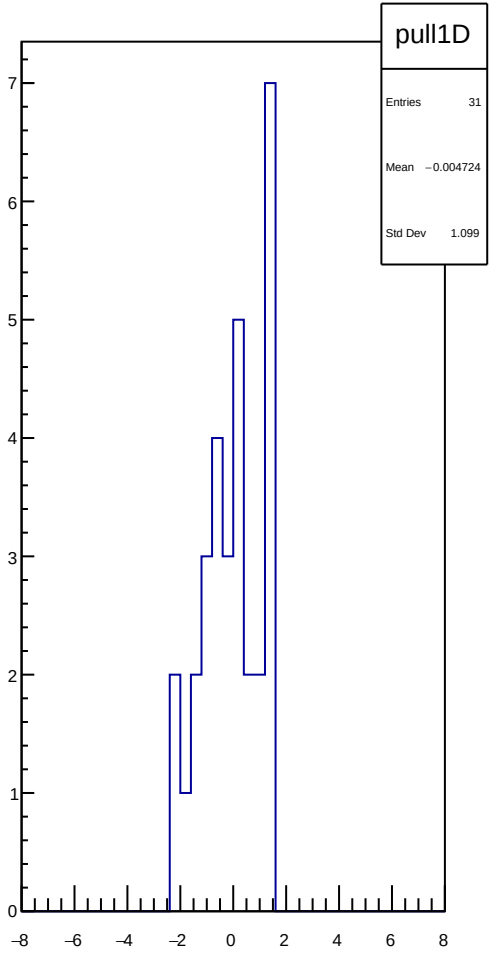

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1239 / 30
p0 256.7 ± 0.333
290
280
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

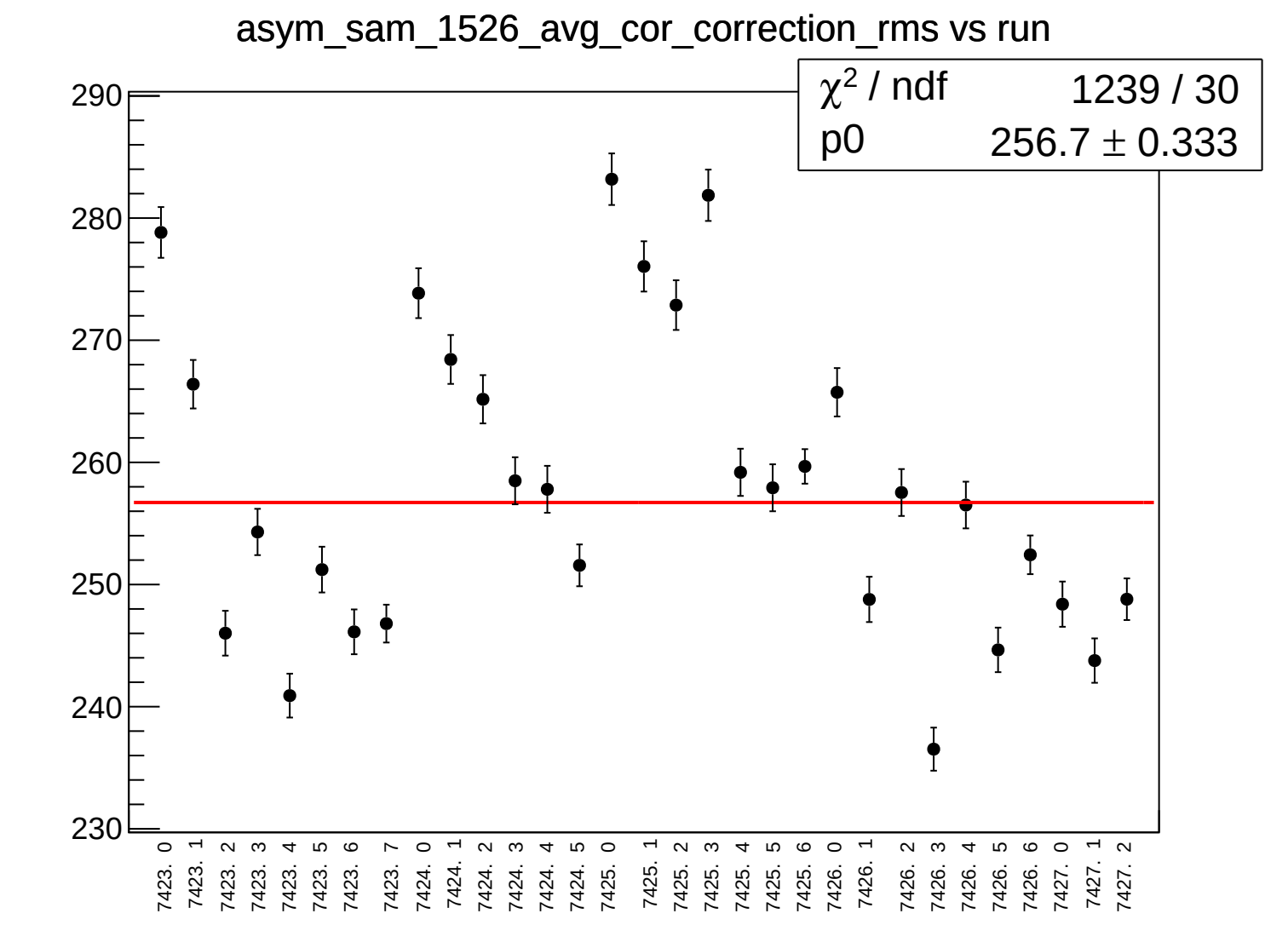

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 38.17 / 30
p0 −195.3 ± 101.8
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −692.4
Std Dev 0
2
1
0
−1
−2

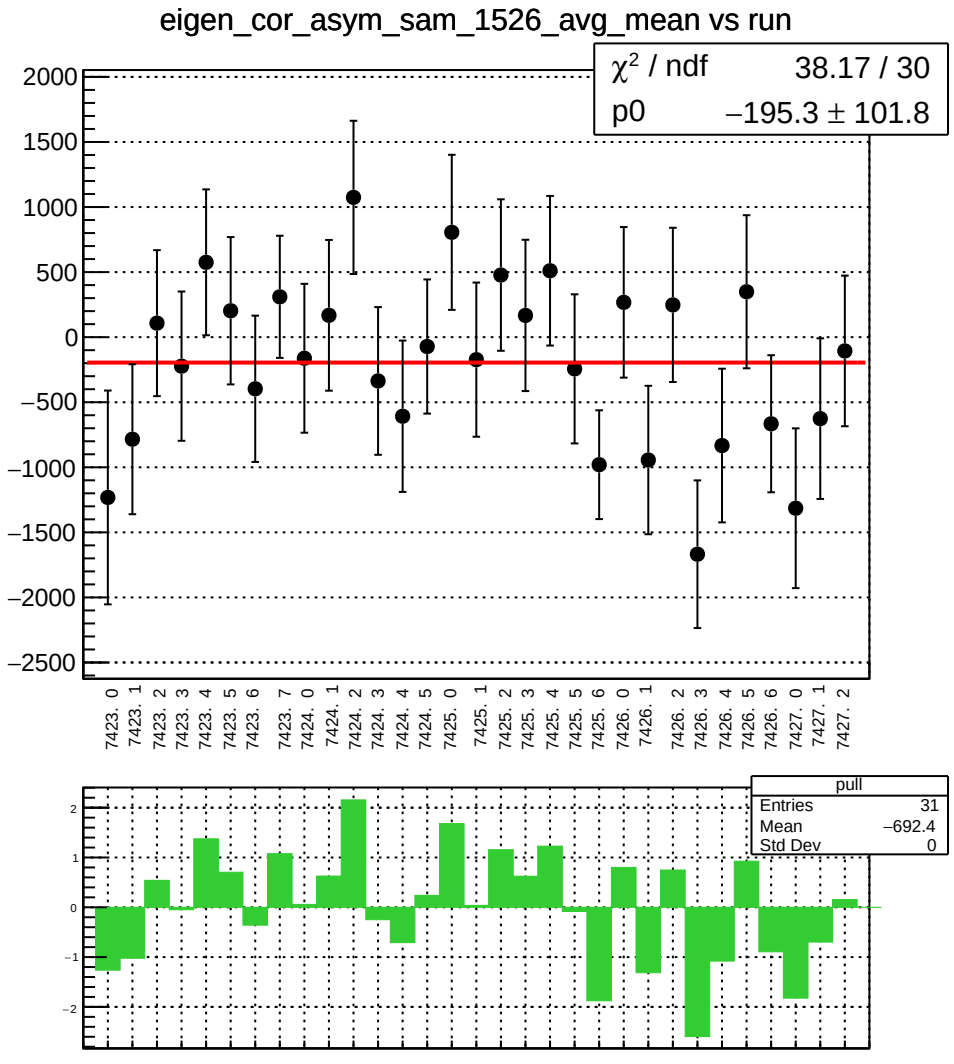

pull1D
Entries 31
Mean 0.003765
Std Dev 1.11
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

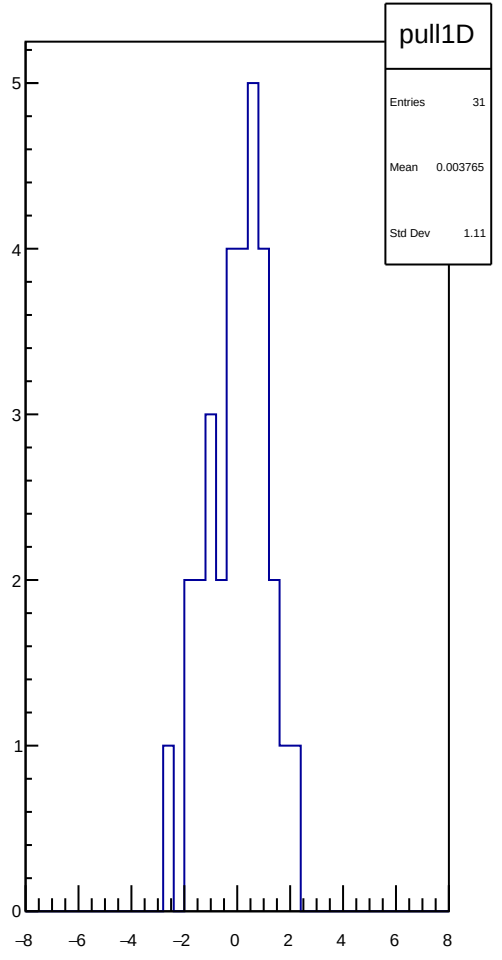

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2119 / 30
p0 55.45 ± 0.07199
80
75
70
65
60
55
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

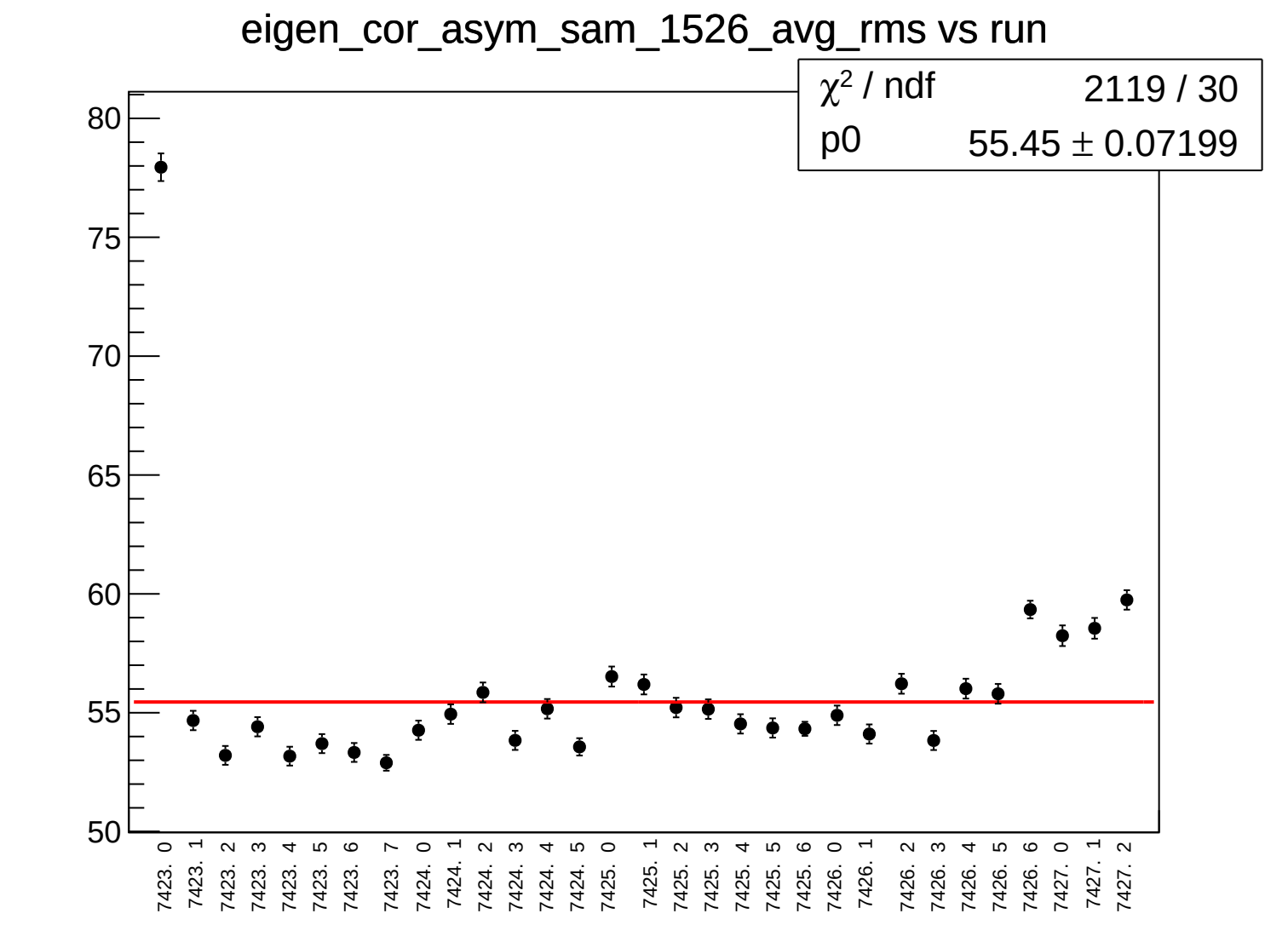

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 37.45 / 30
p0 696.6 ± 471
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 524.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

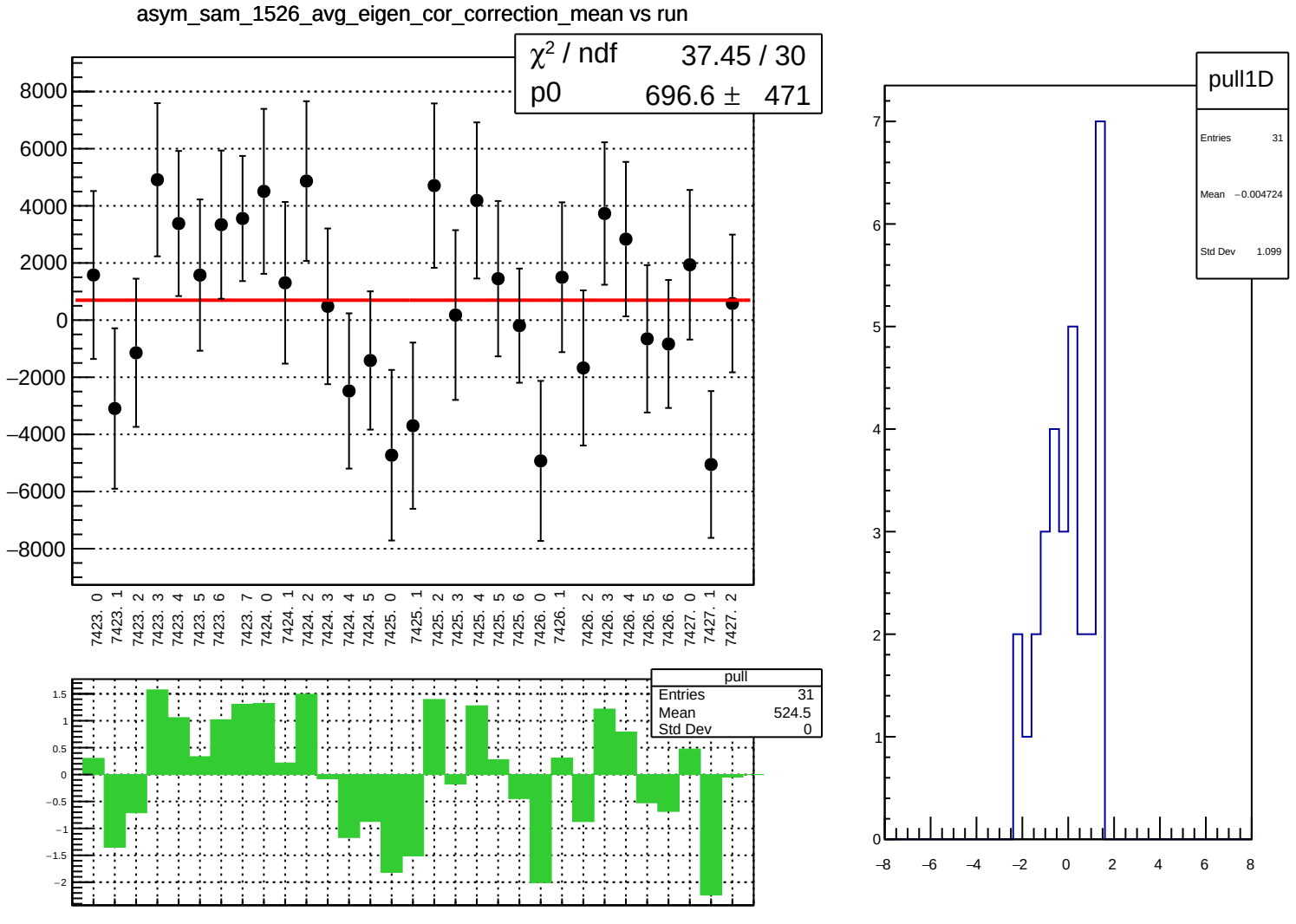

pull1D
Entries 31
Mean −0.004724
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

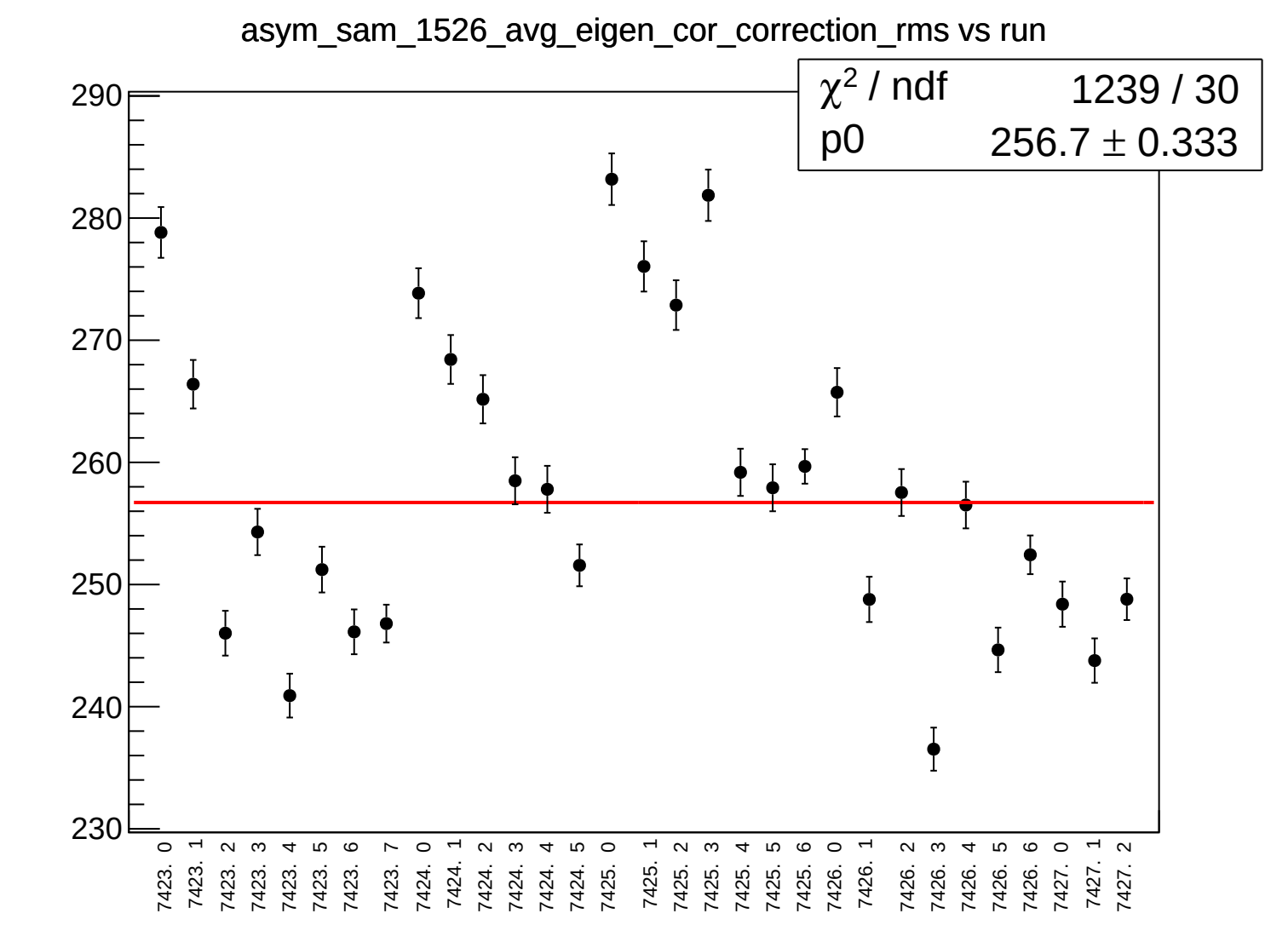

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1239 / 30
p0 256.7 ± 0.333
290
280
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

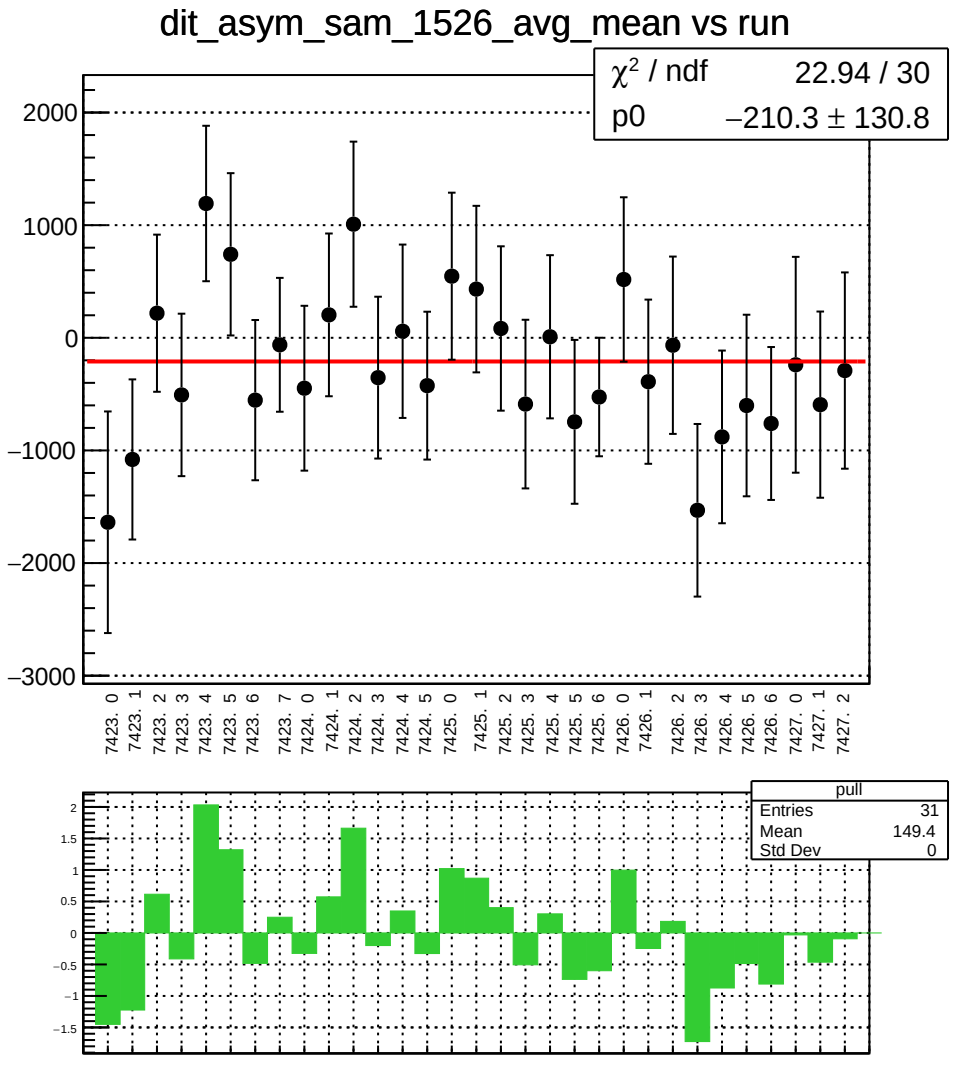

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 38.17 / 30
p0 −195.3 ± 101.8
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −692.4
Std Dev 0
2
1
0
−1
−2

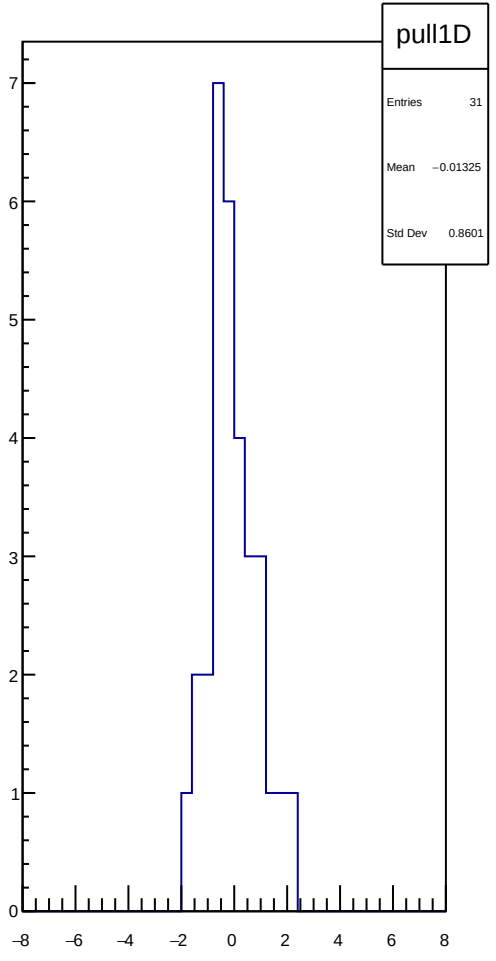

pull1D
Entries 31
Mean 0.003765
Std Dev 1.11
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

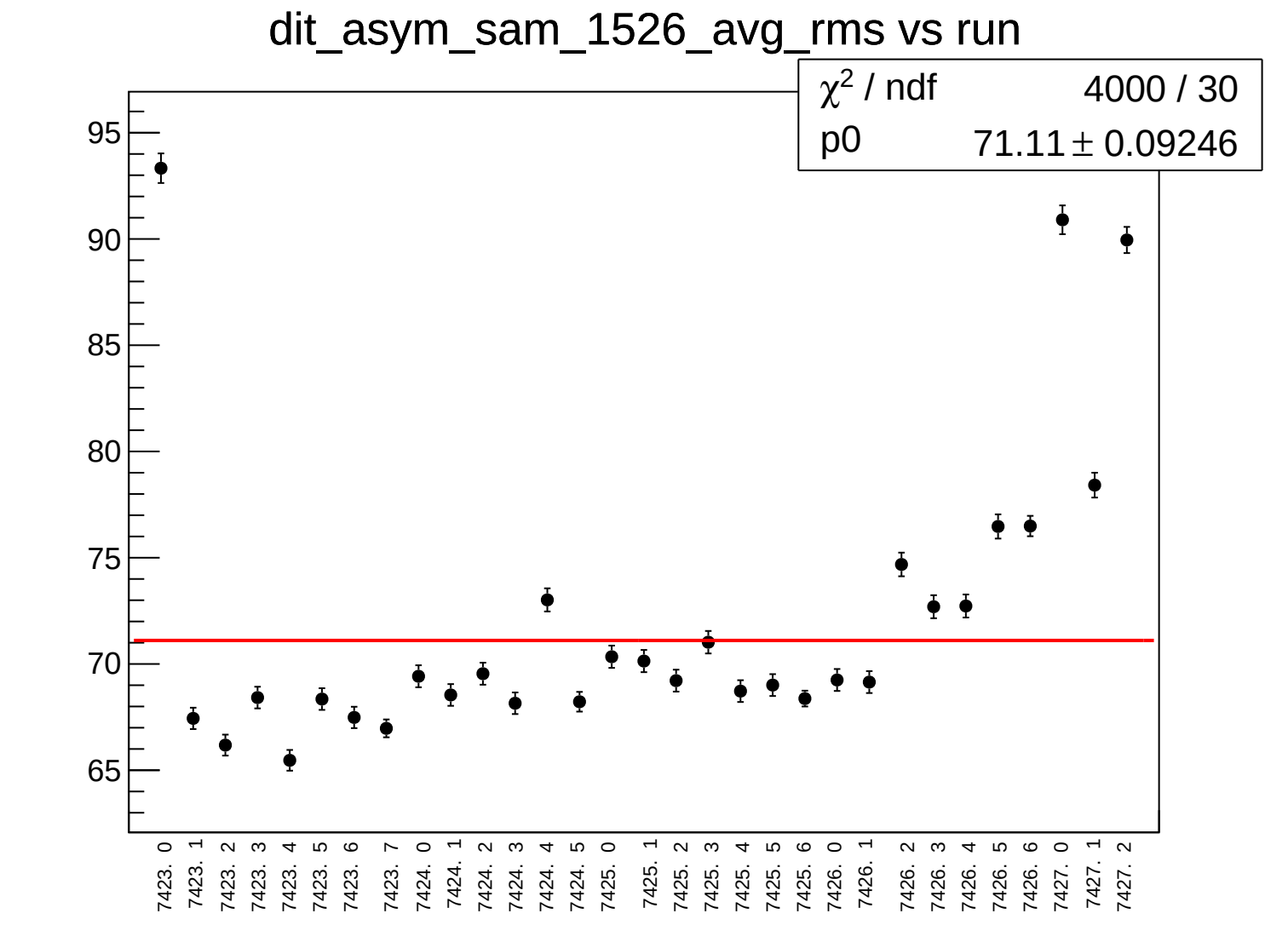

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2119 / 30
p0 55.45 ± 0.07199
80
75
70
65
60
55
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

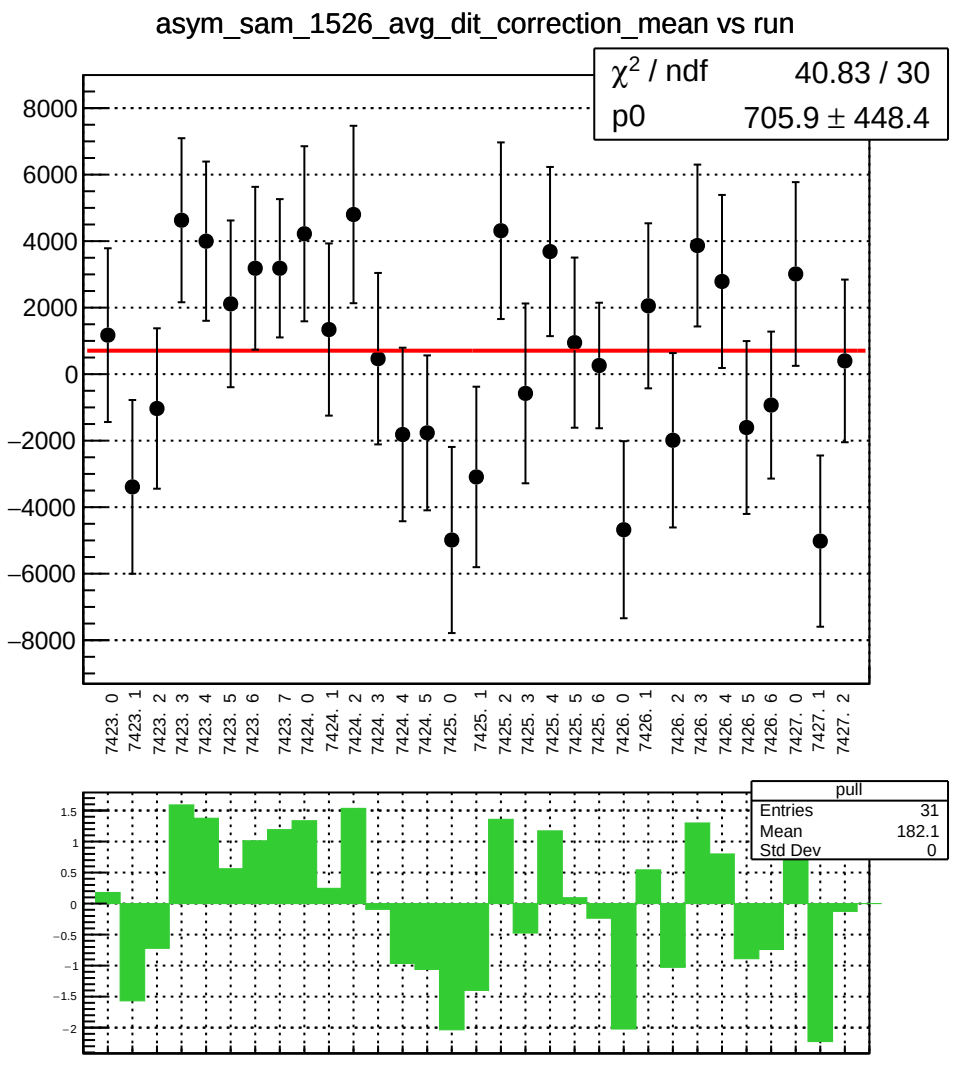

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.45 / 30
p0 696.6 ± 471
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 524.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.004724
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

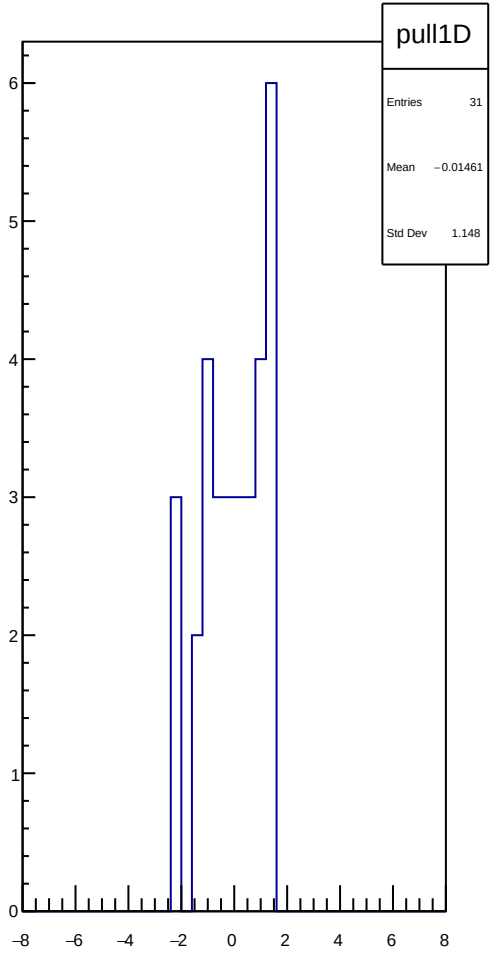

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1239 / 30
p0 256.7 ± 0.333
290
280
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

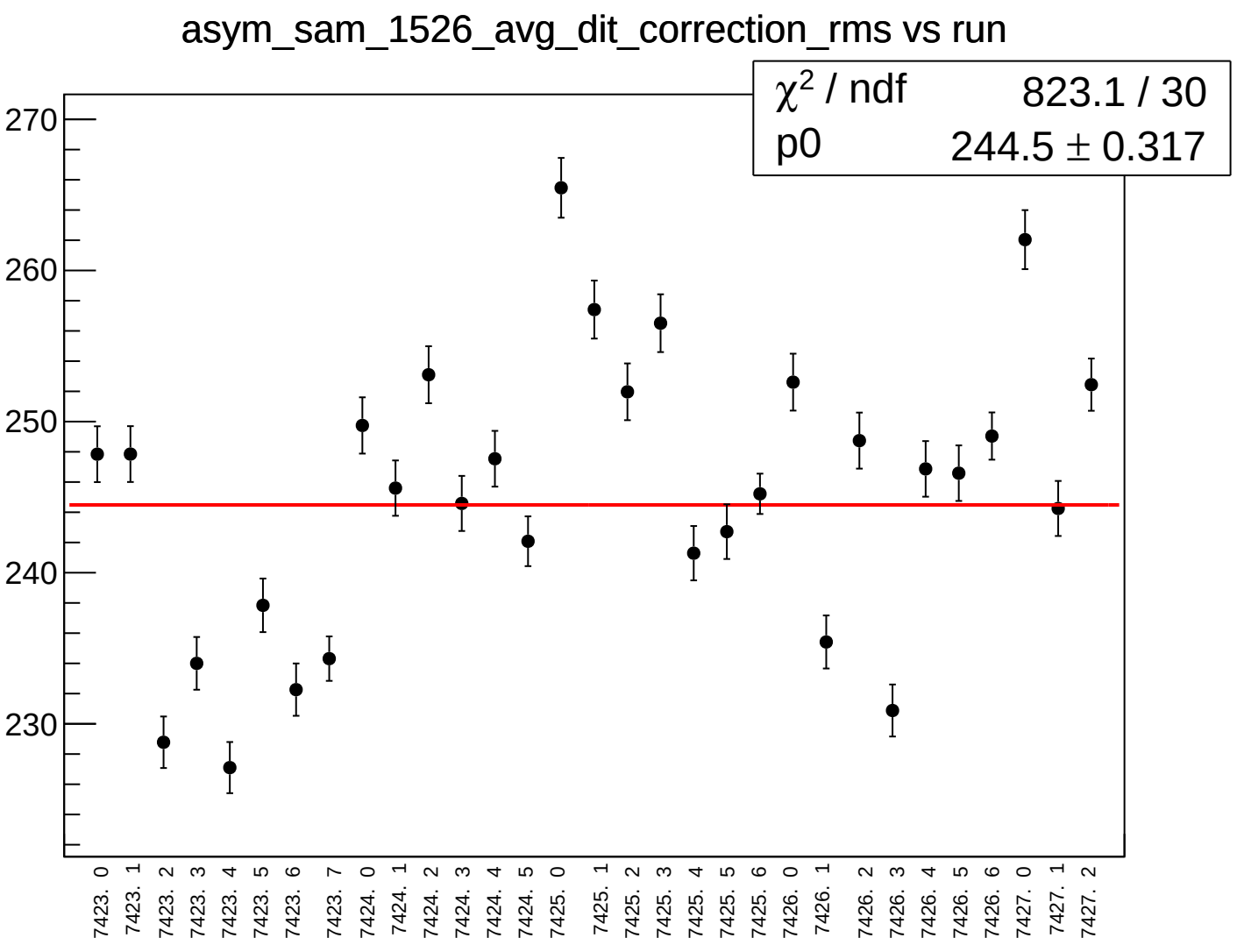

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 22.94 / 30
p0 −210.3 ± 130.8
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 149.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

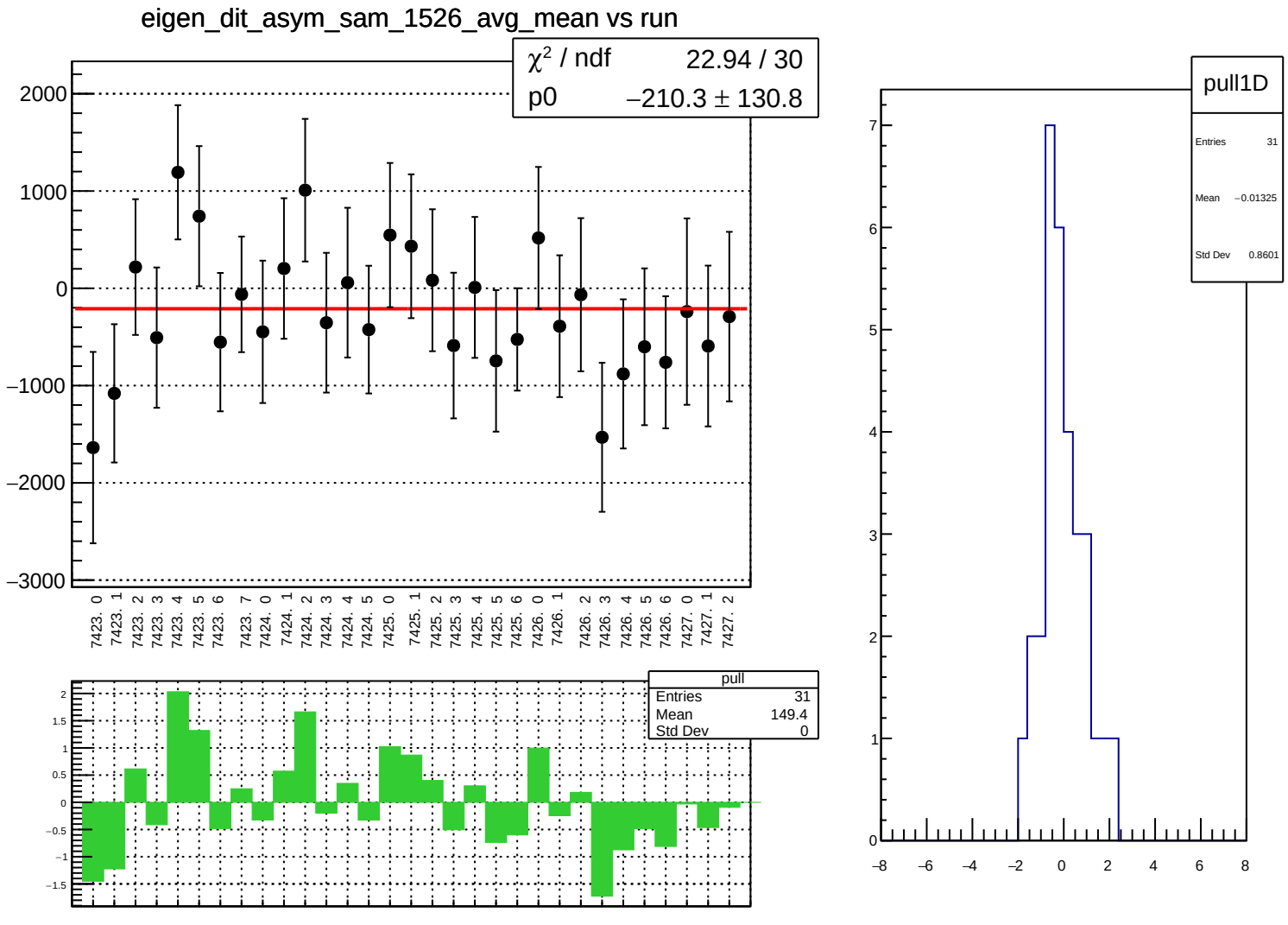

pull1D
Entries 31
Mean −0.01325
Std Dev 0.8601
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

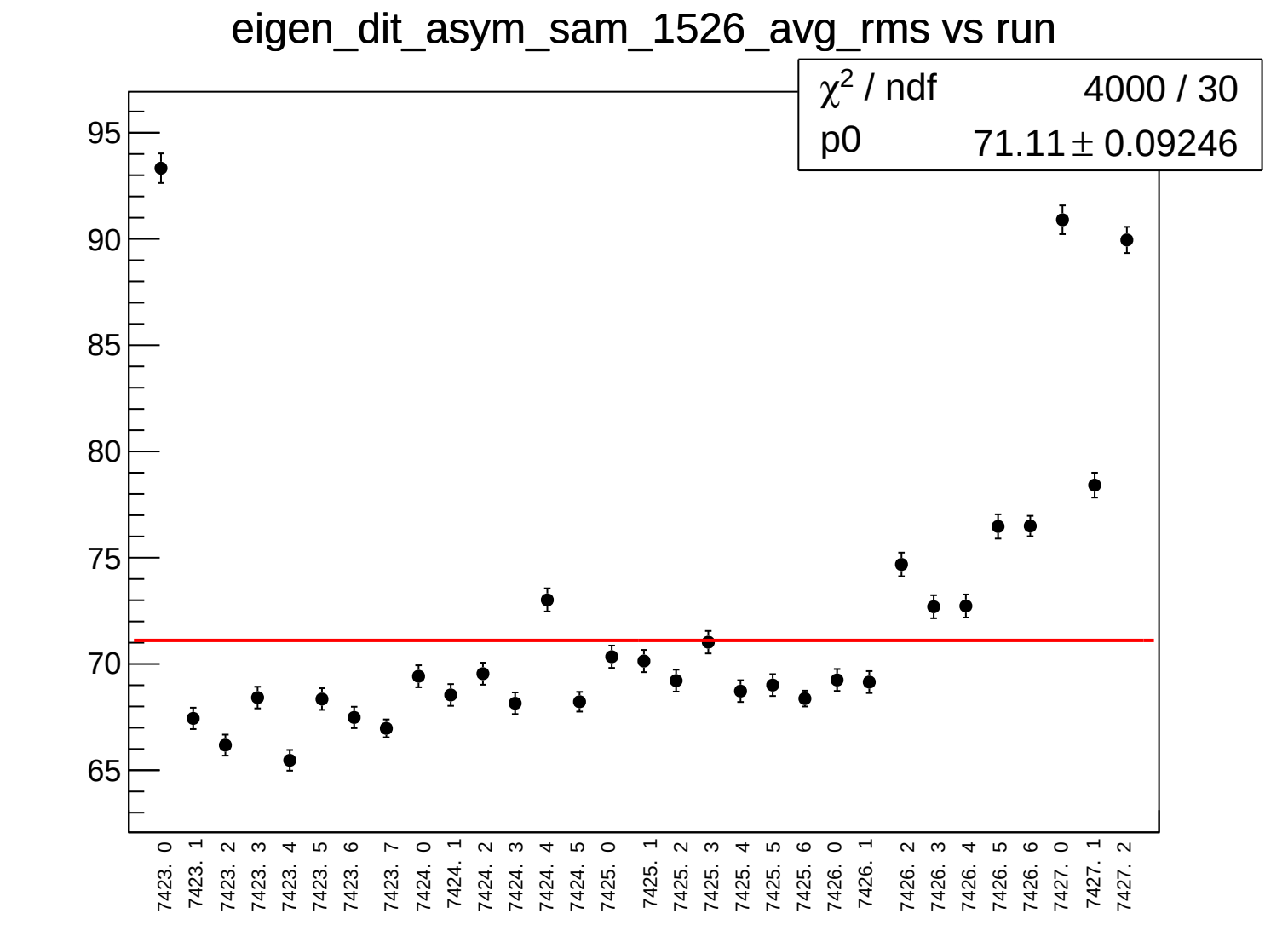

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4000 / 30
p0 71.11 ± 0.09246
95
90
85
80
75
70
65
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

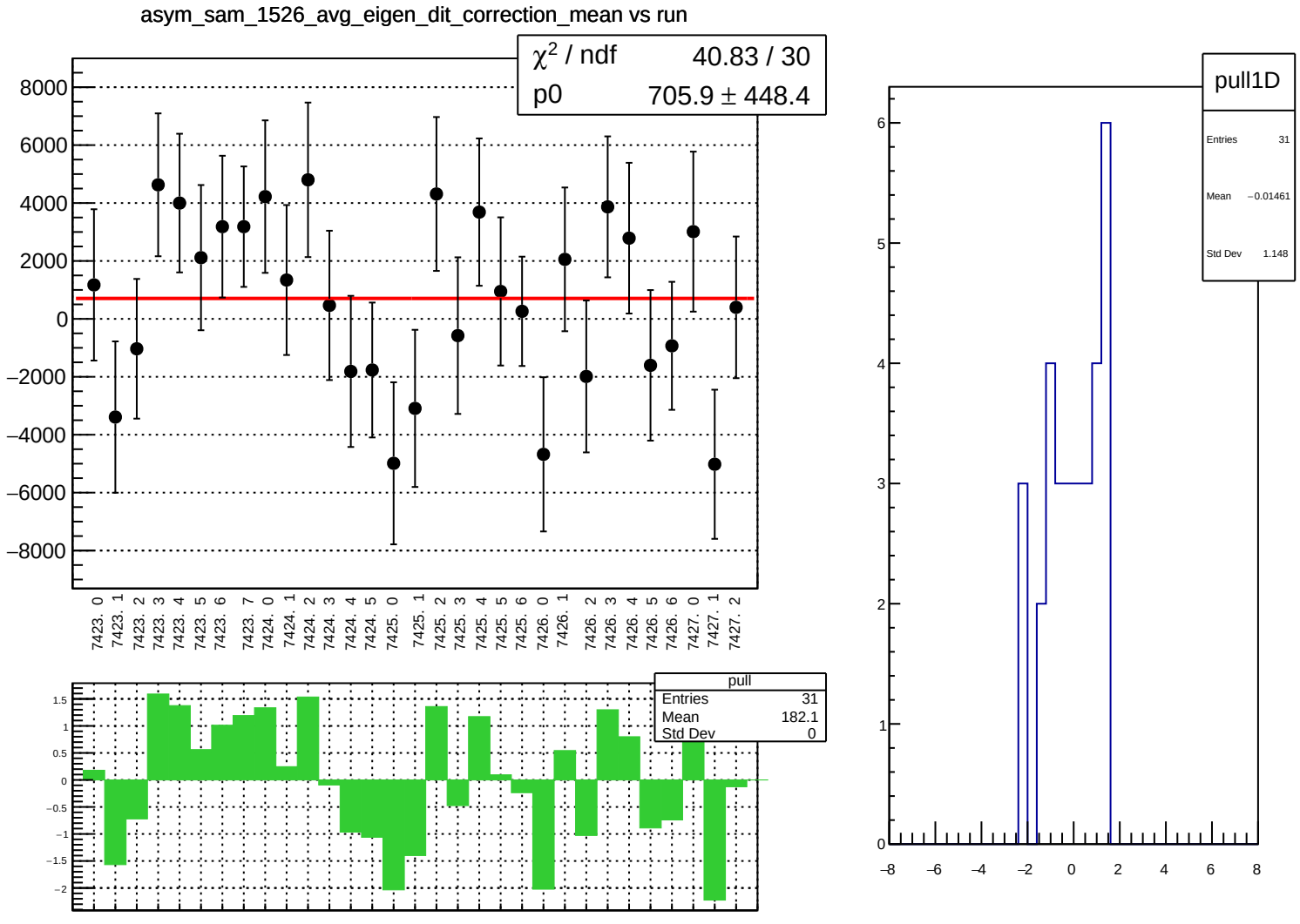

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 40.83 / 30
p0 705.9 ± 448.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 182.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

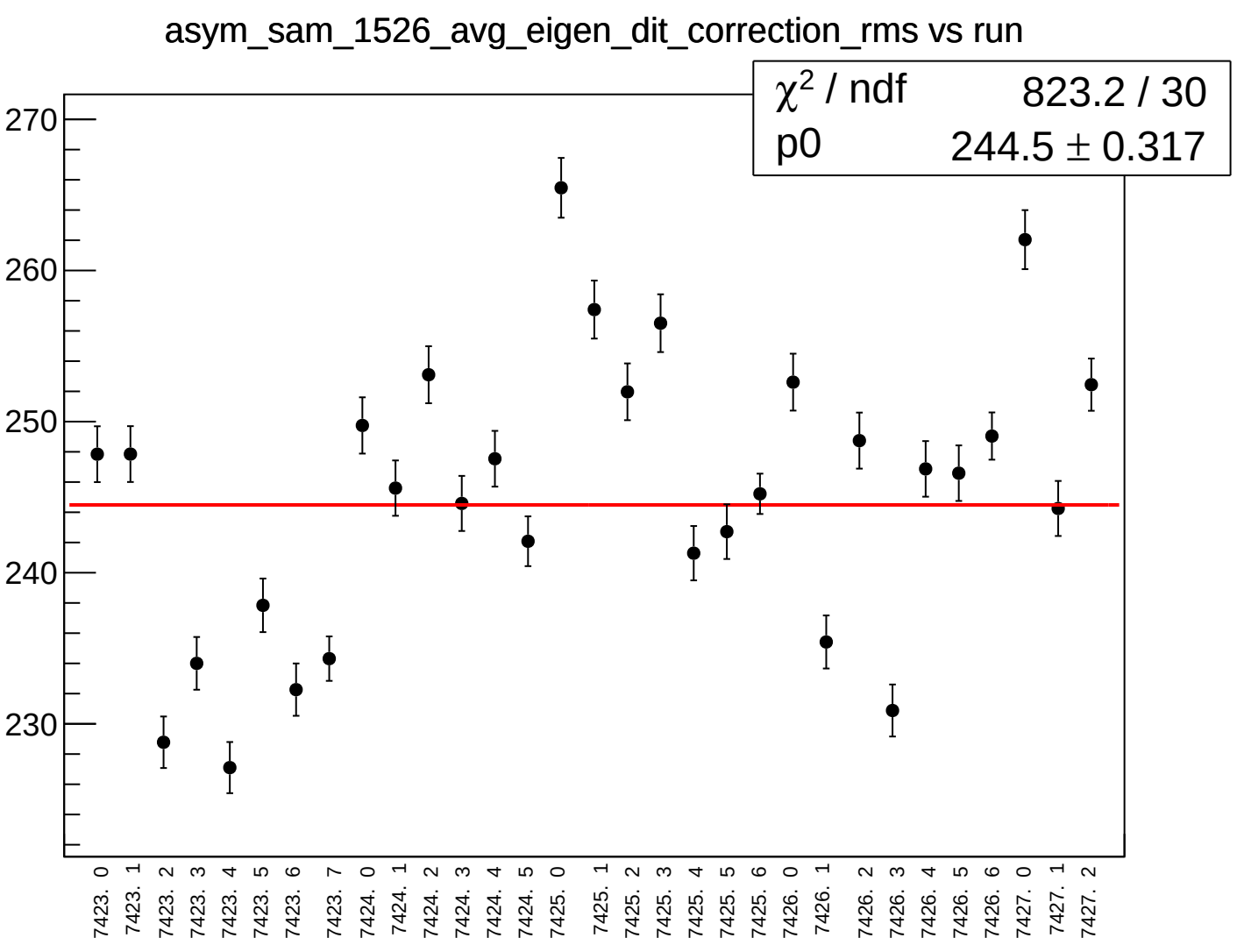

pull1D
Entries 31
Mean −0.01461
Std Dev 1.148
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

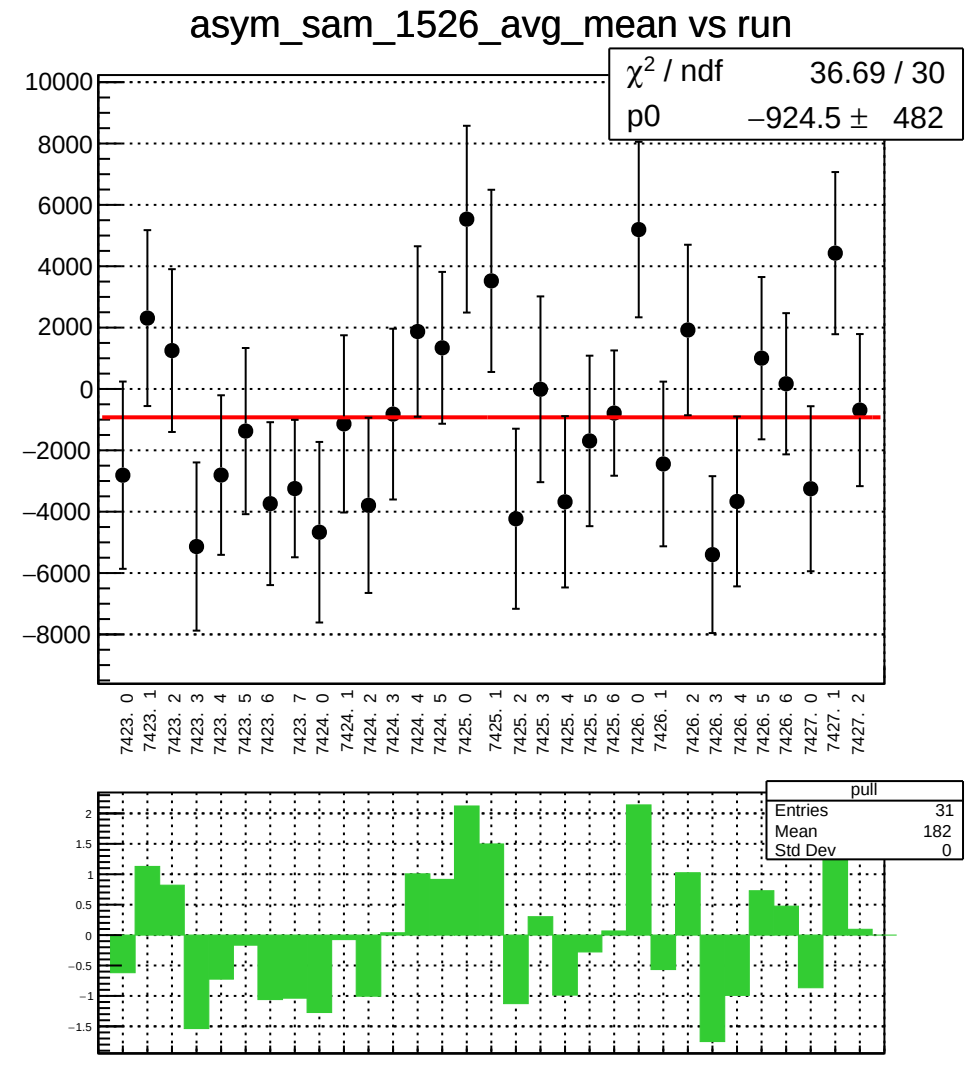

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 823.1 / 30
p0 244.5 ± 0.317
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

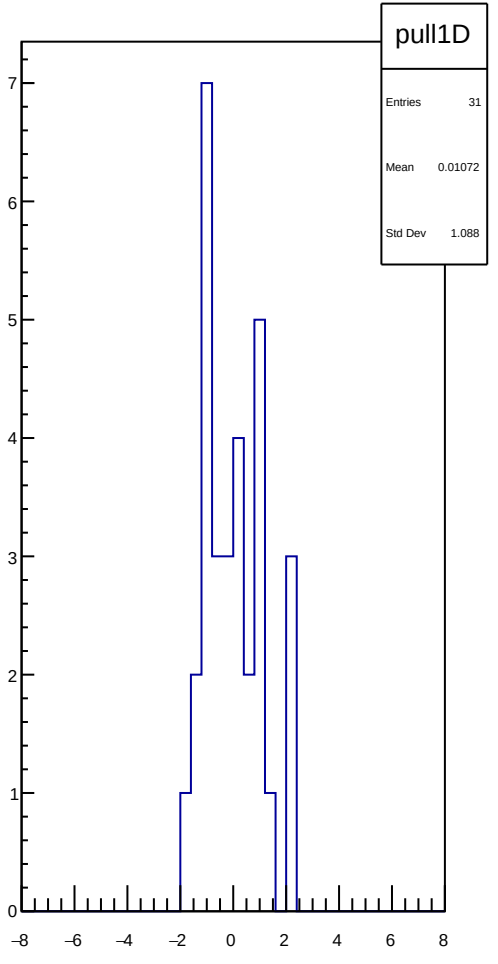

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 22.94 / 30
p0 −210.3 ± 130.8
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 149.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01325
Std Dev 0.8601
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

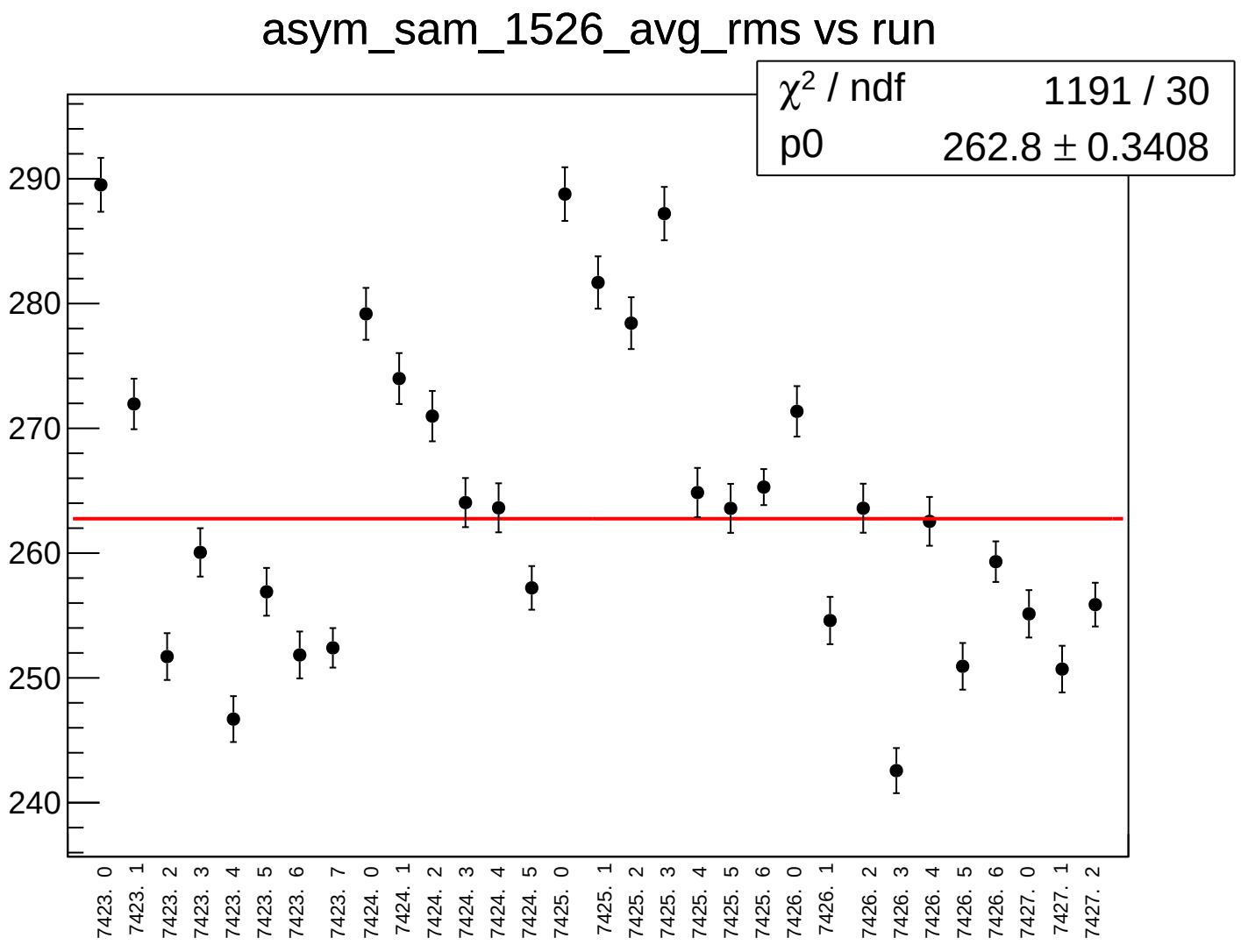

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4000 / 30
p0 71.11 ± 0.09246
95
90
85
80
75
70
65
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

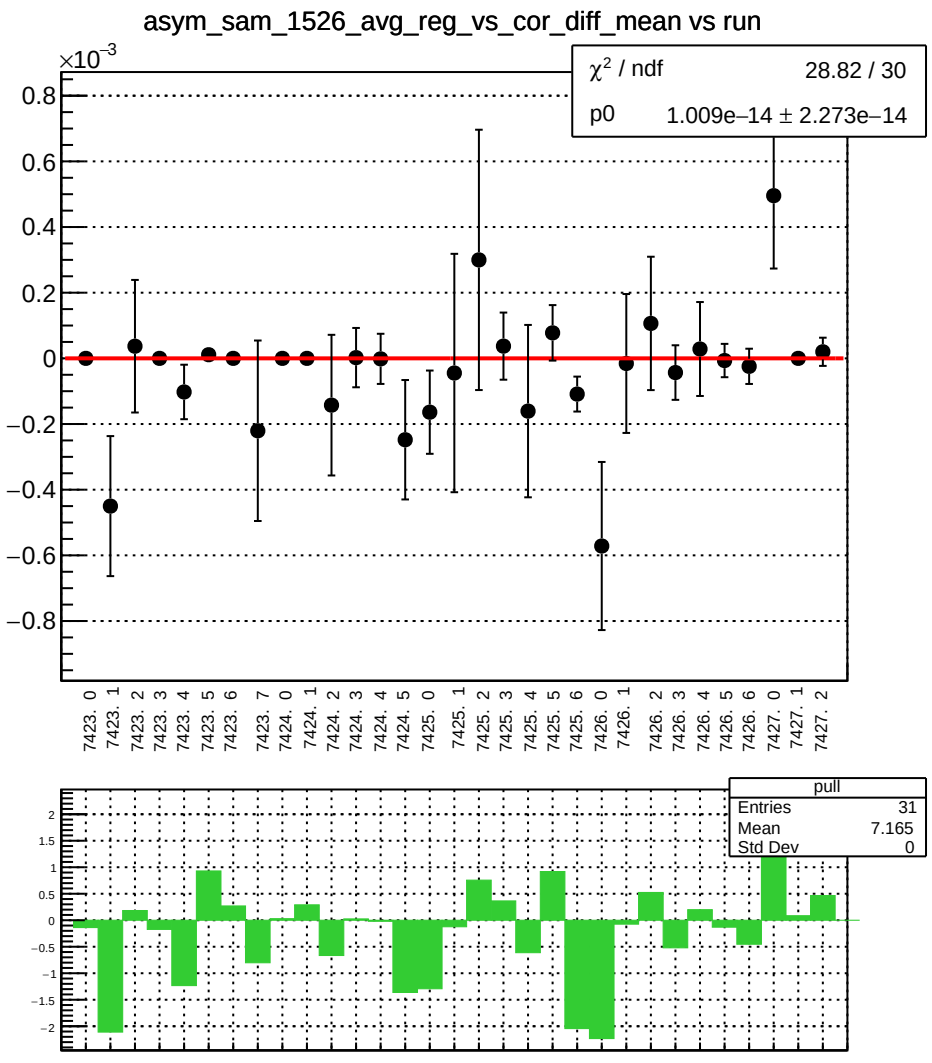

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.83 / 30
p0 705.9 ± 448.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 182.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01461
Std Dev 1.148
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

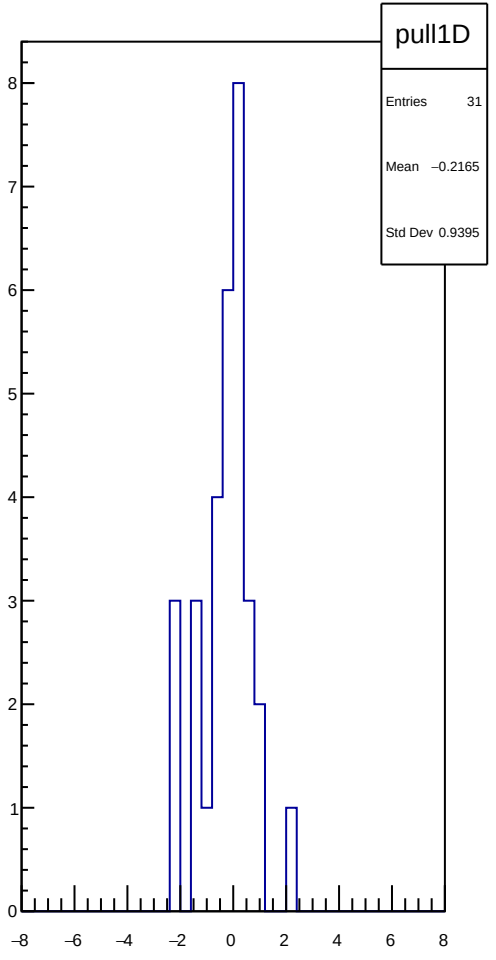

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 823.2 / 30
p0 244.5 ± 0.317
270
260
250
240
230
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

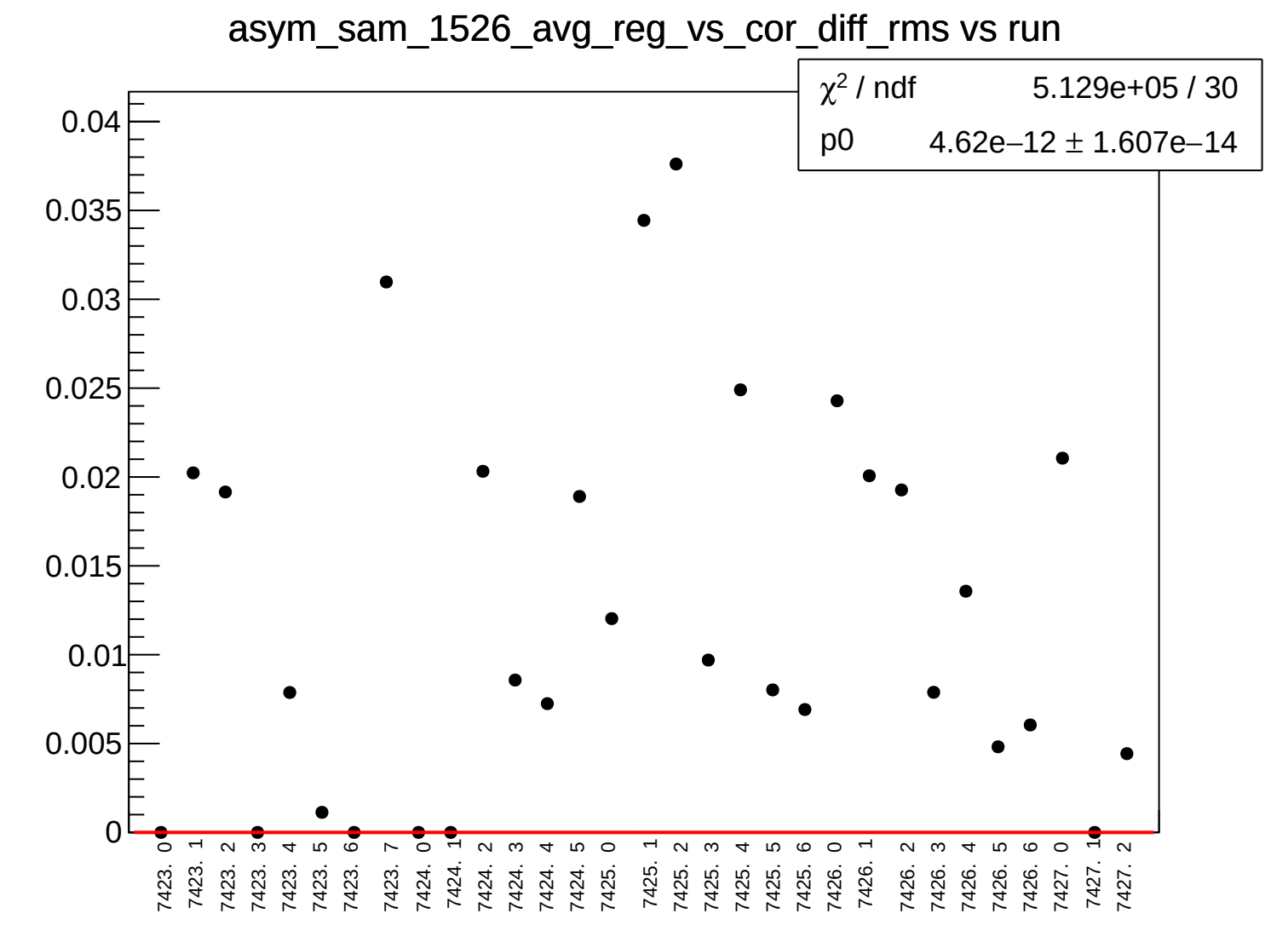

asym_sam_1526_avg_mean vs run
χ² / ndf 36.69 / 30
p0 −924.5 ± 482
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 182
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

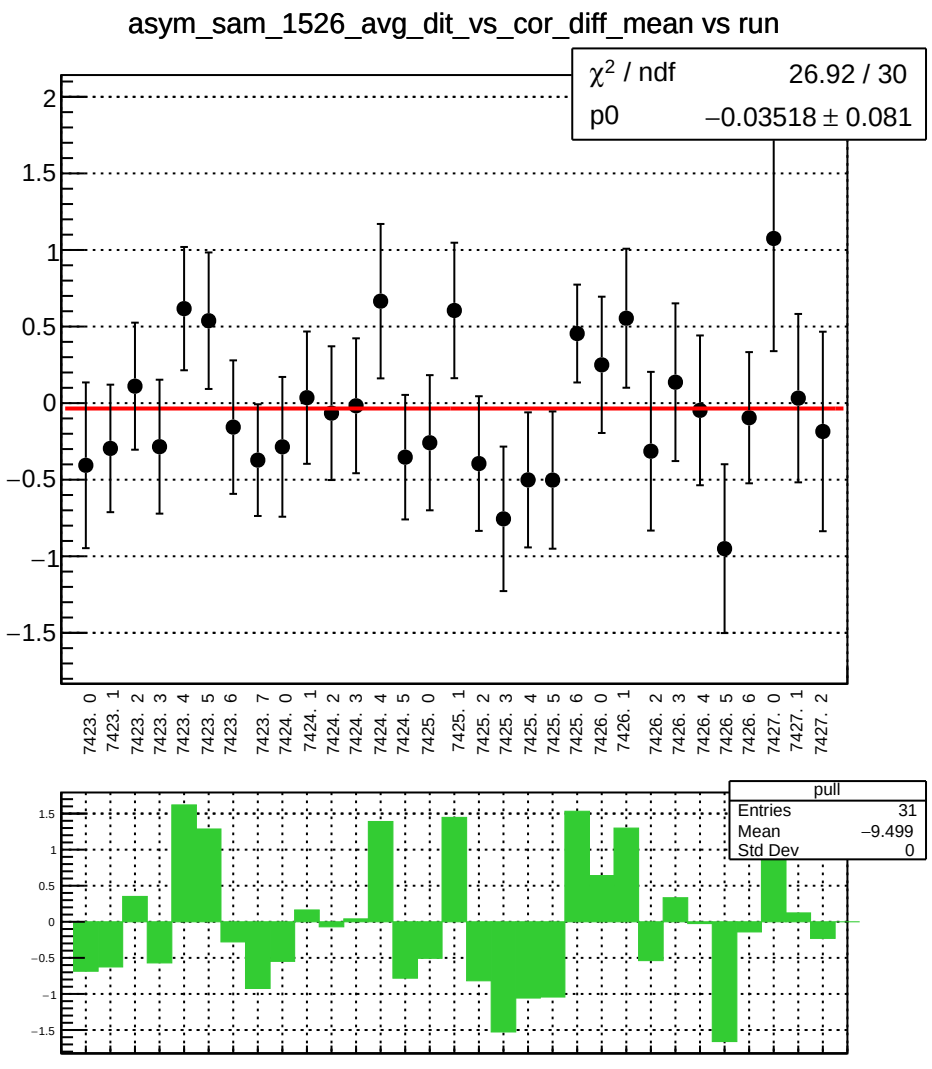

pull1D
Entries 31
Mean 0.01072
Std Dev 1.088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

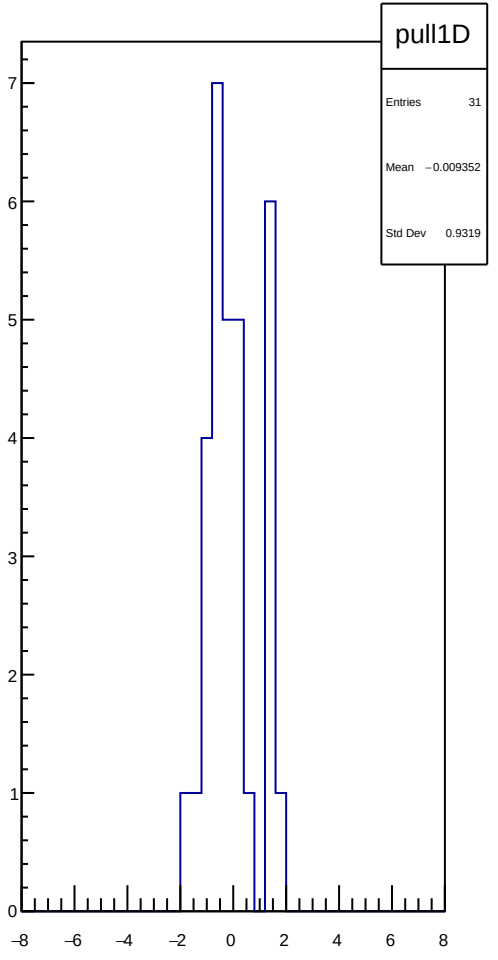

asym_sam_1526_avg_rms vs run
χ² / ndf 1191 / 30
p0 262.8 ± 0.3408
290
280
270
260
250
240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

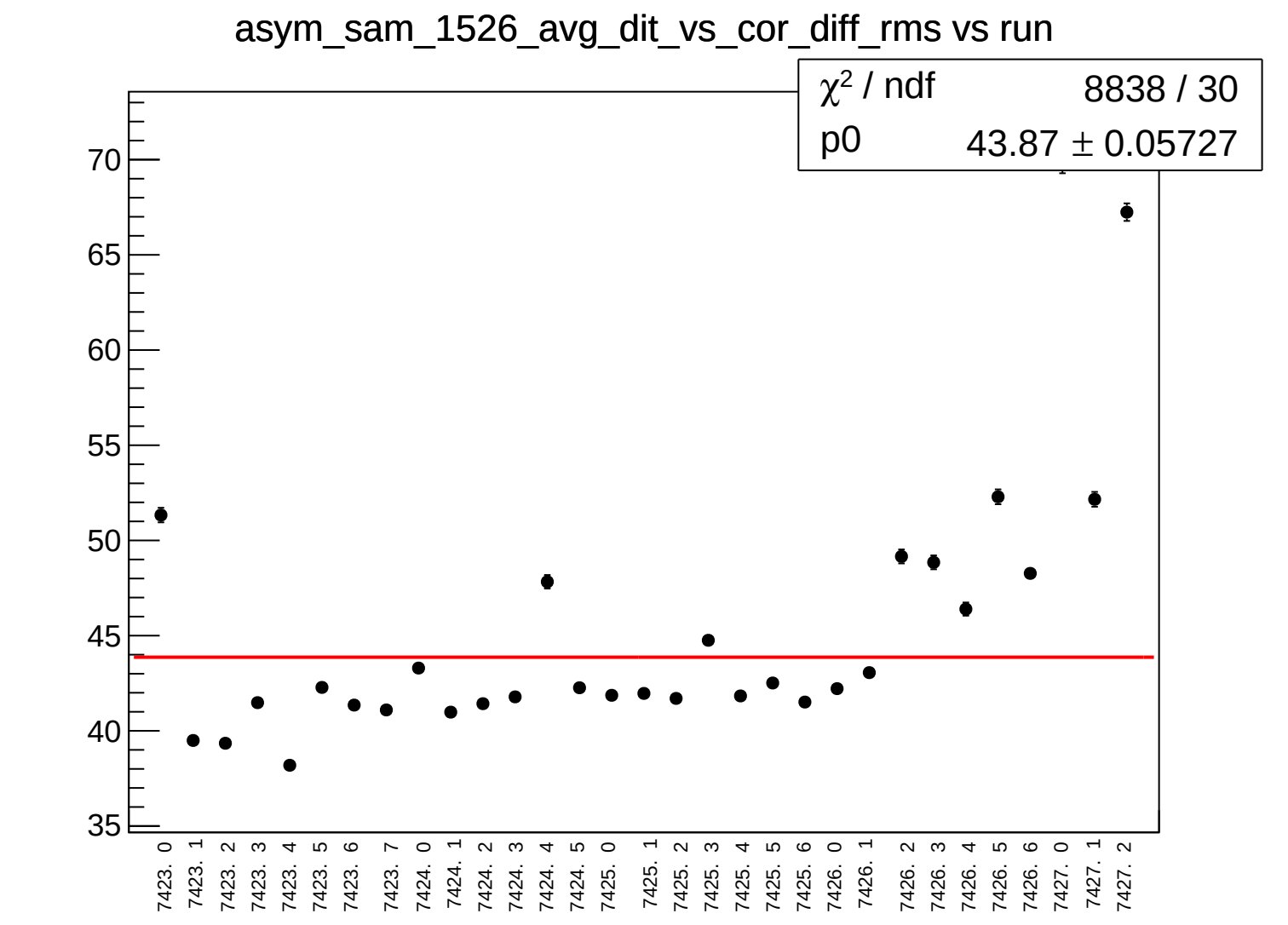

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 28.82 / 30
p0 1.009e−14 ± 2.273e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 7.165
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

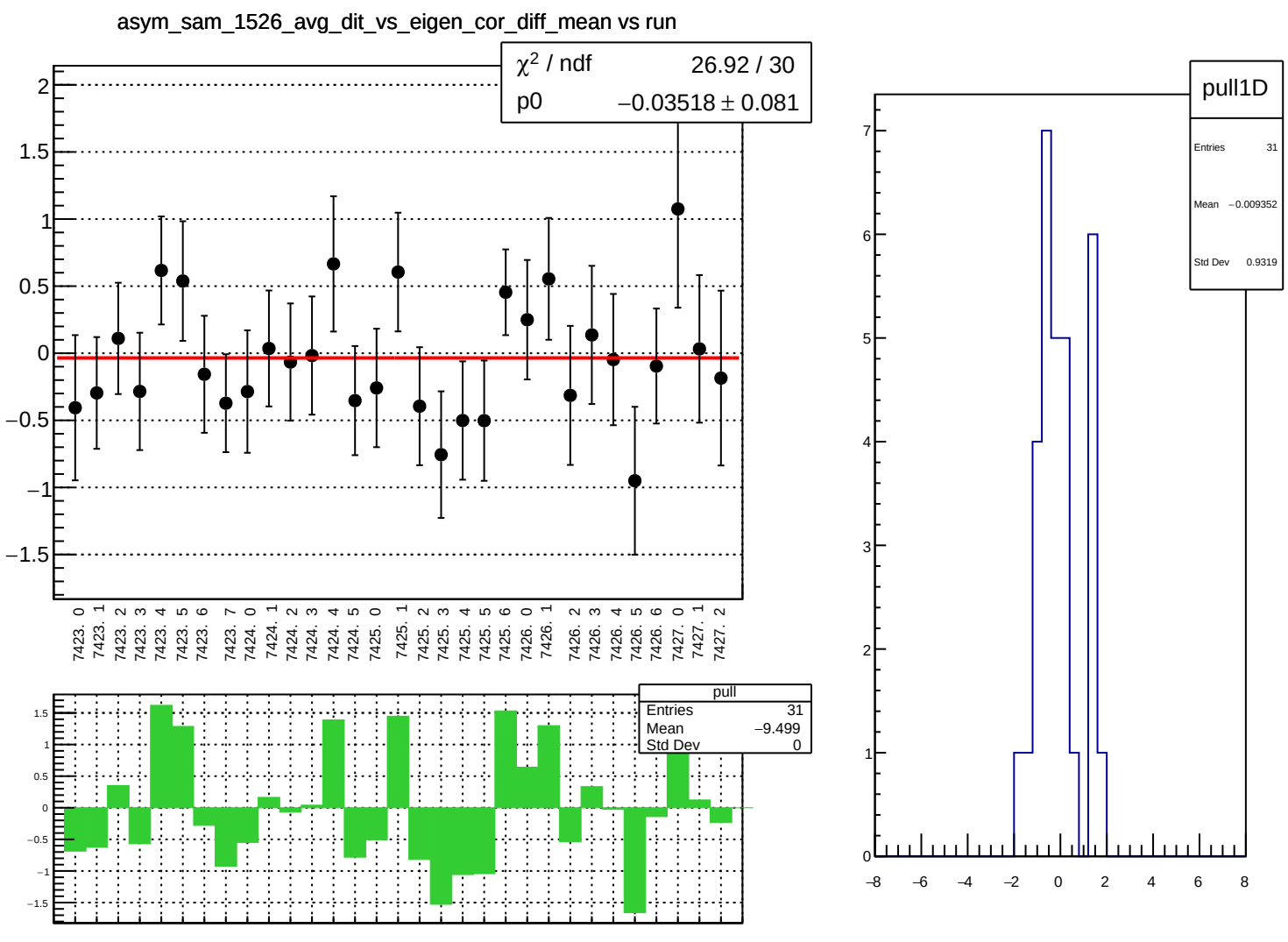

pull1D
Entries 31
Mean −0.2165
Std Dev 0.9395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

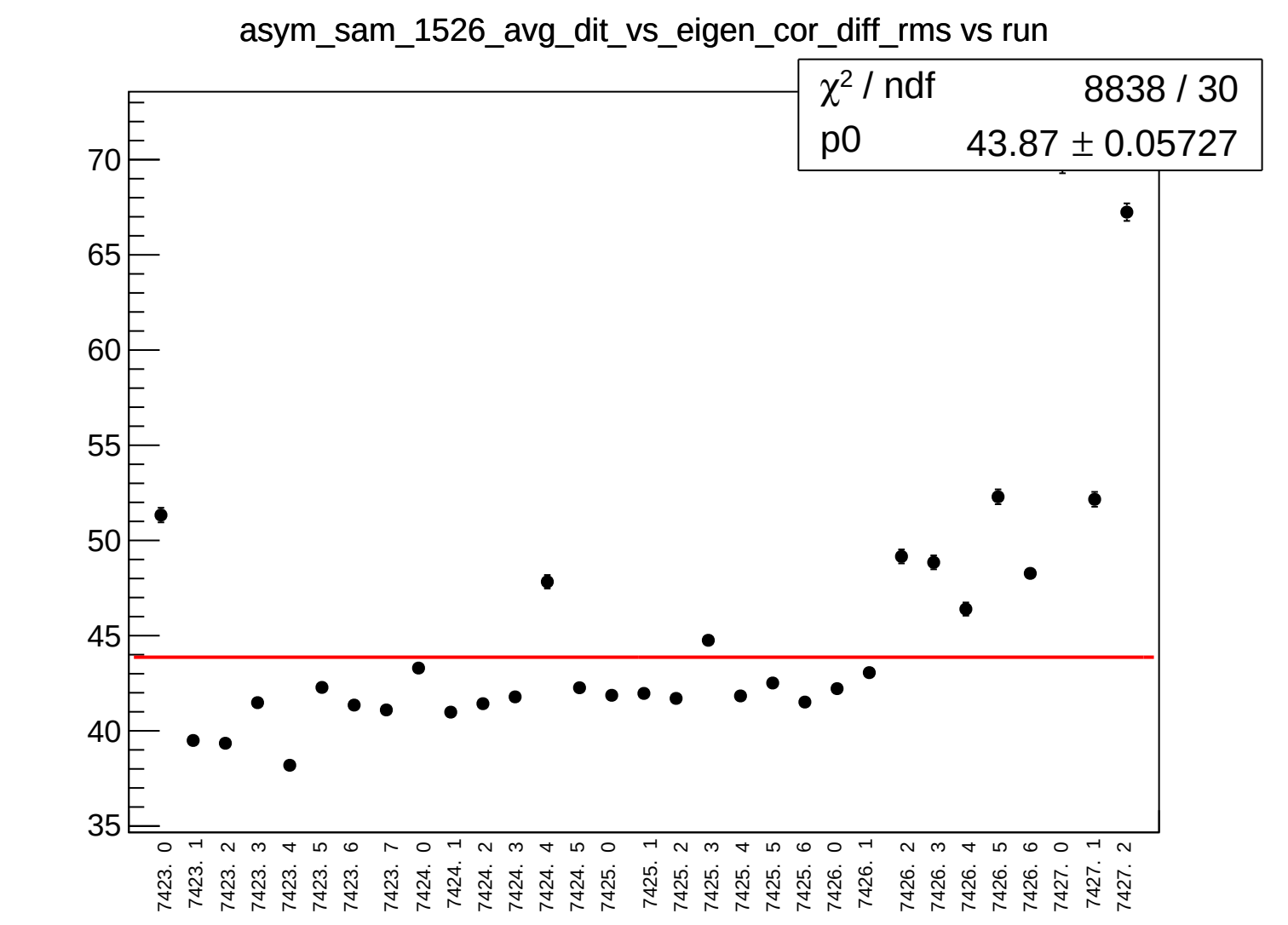

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.129e+05 / 30
p0 4.62e−12 ± 1.607e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

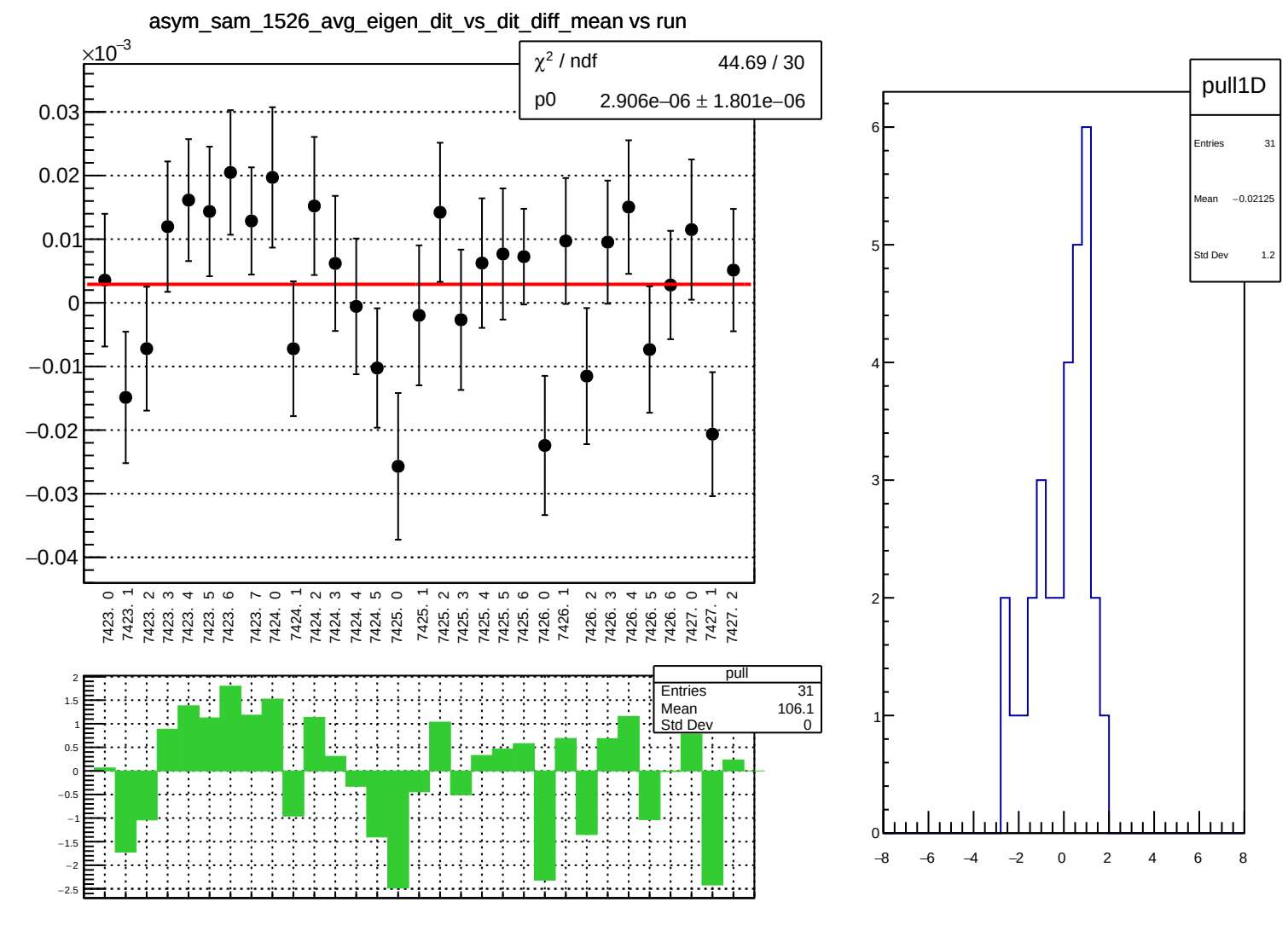

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 26.92 / 30
p0 −0.03518 ± 0.081
pull
Entries 31
Mean −9.499
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

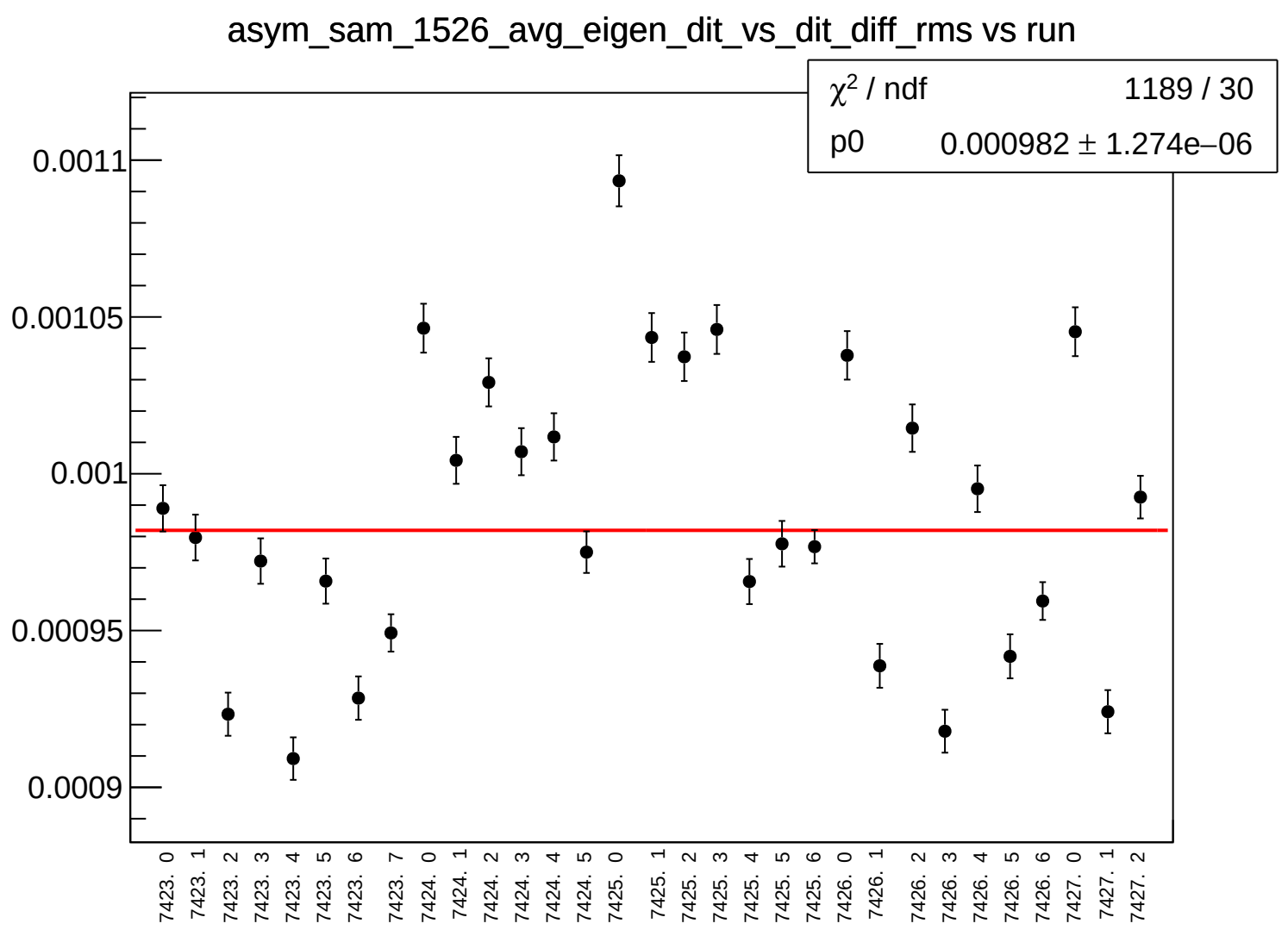

pull1D
Entries 31
Mean −0.009352
Std Dev 0.9319

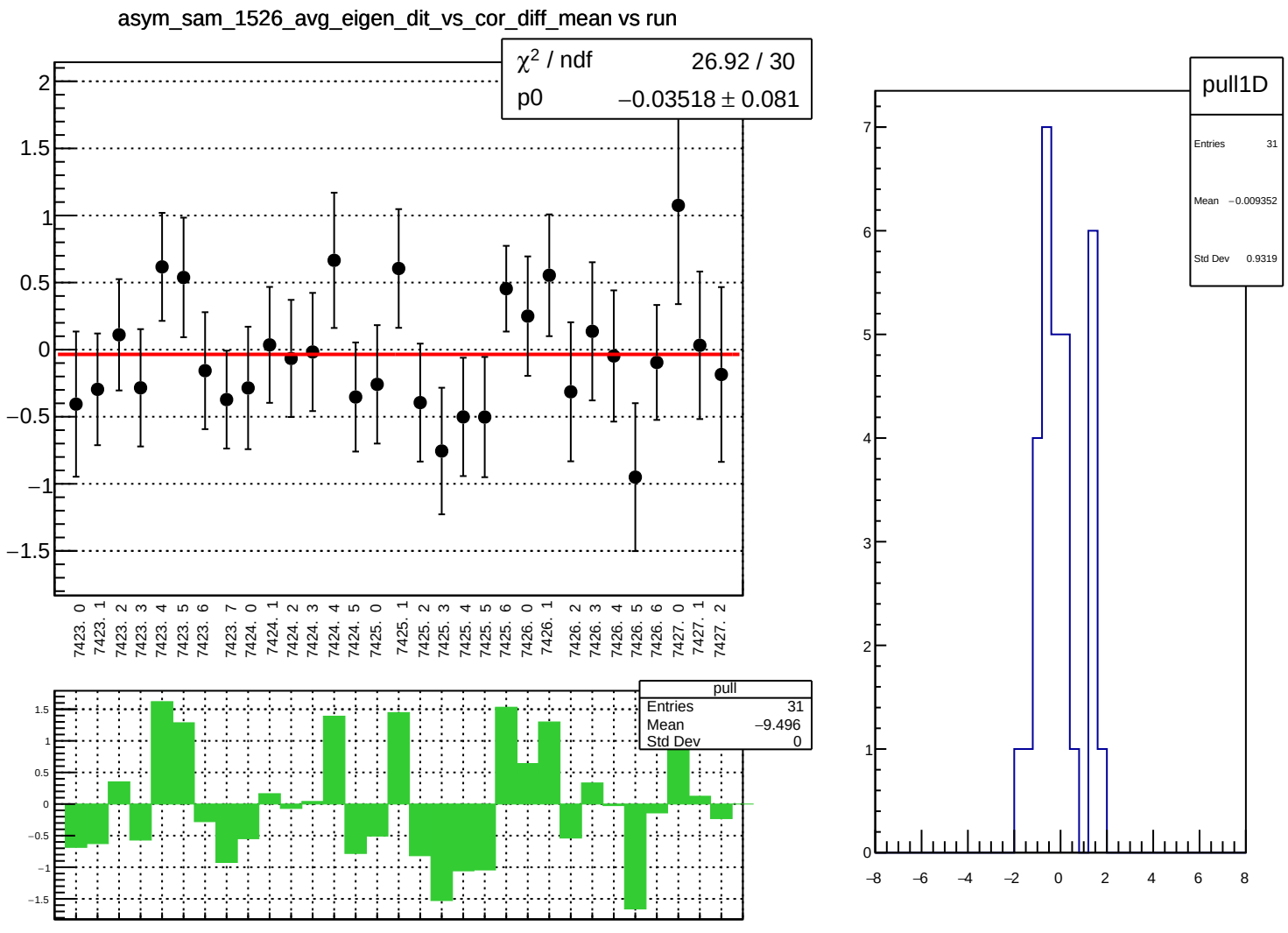

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8838 / 30
p0 43.87 ± 0.05727
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

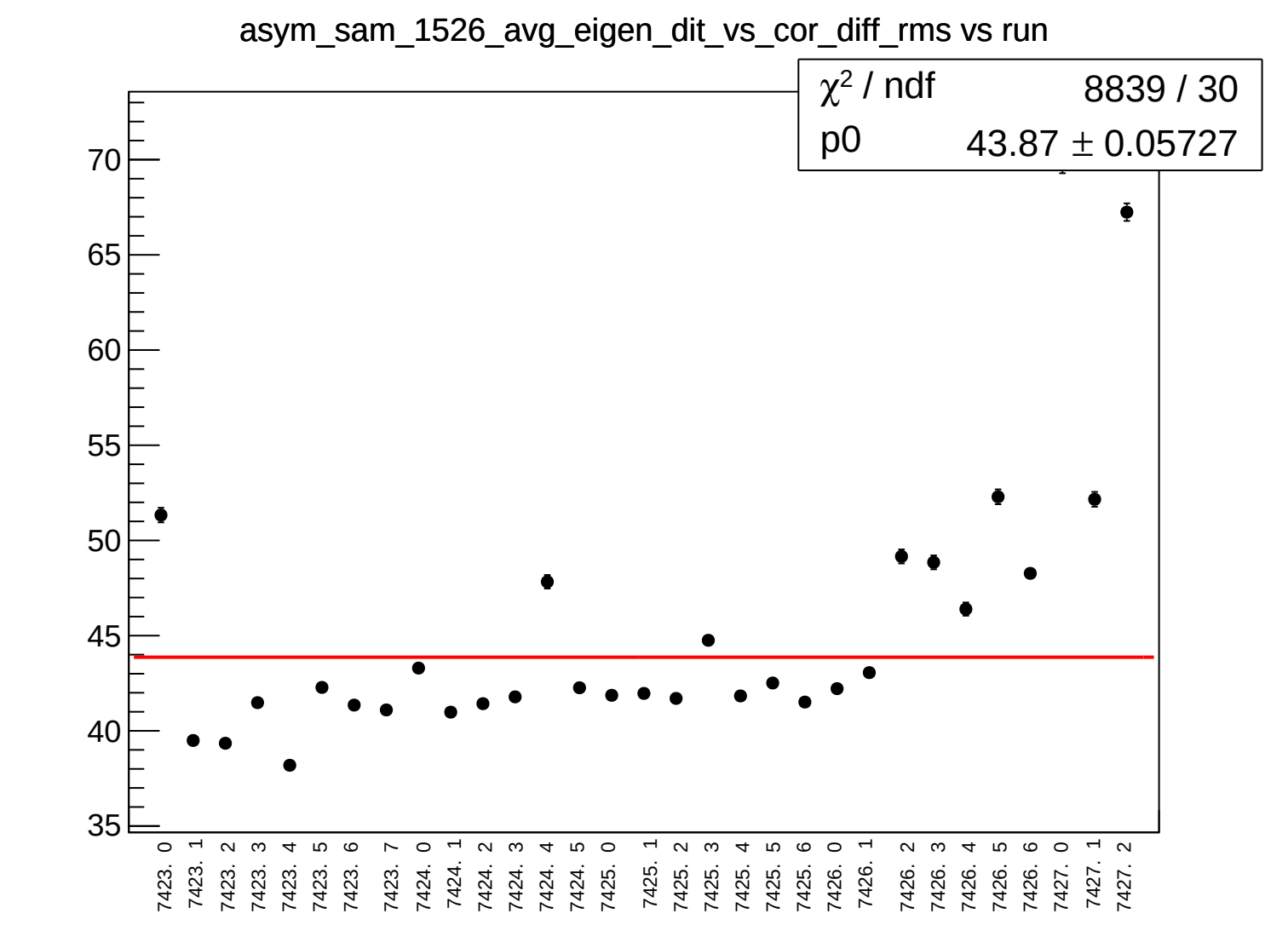

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.92 / 30
p0 −0.03518 ± 0.081
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −9.499
Std Dev 0
pull1D
Entries 31
Mean −0.009352
Std Dev 0.9319


asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8838 / 30
p0 43.87 ± 0.05727
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

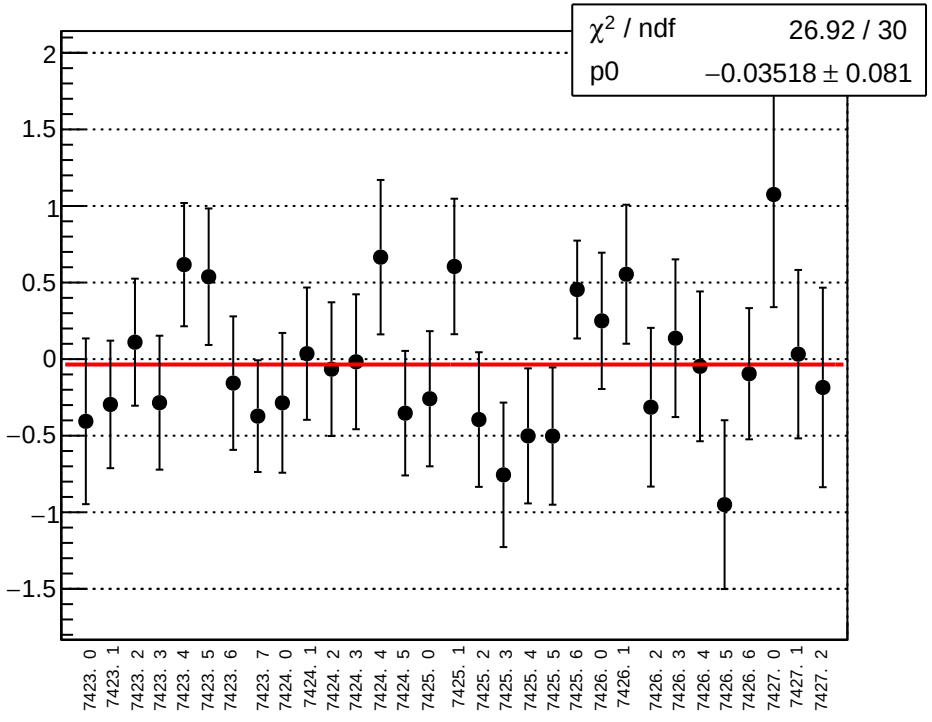

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 44.69 / 30
p0 2.906e−06 ± 1.801e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 106.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.02125
Std Dev 1.2
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

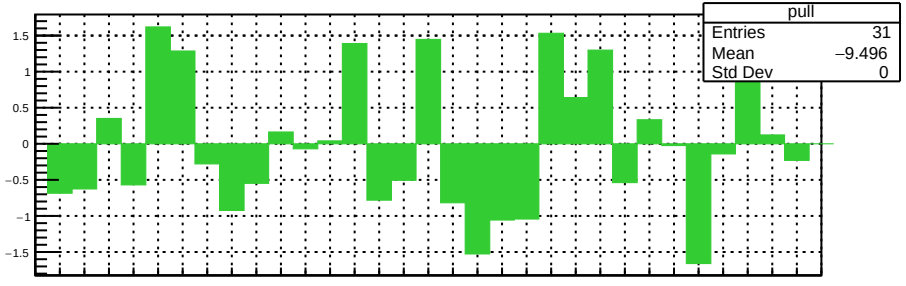

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1189 / 30
p0 0.000982 ± 1.274e−06
0.0011
0.00105
0.001
0.00095
0.0009
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

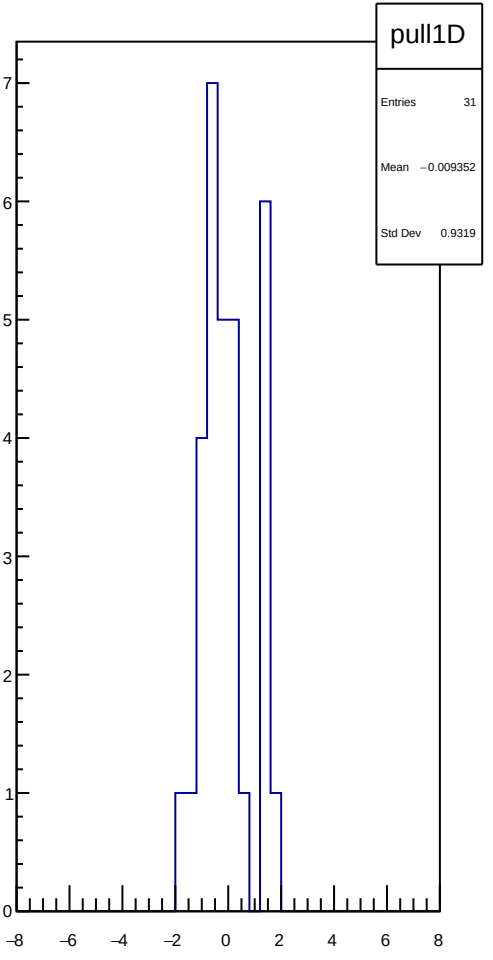

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.92 / 30
p0 −0.03518 ± 0.081
pull
Entries 31
Mean −9.496
Std Dev 0
pull1D
Entries 31
Mean −0.009352
Std Dev 0.9319

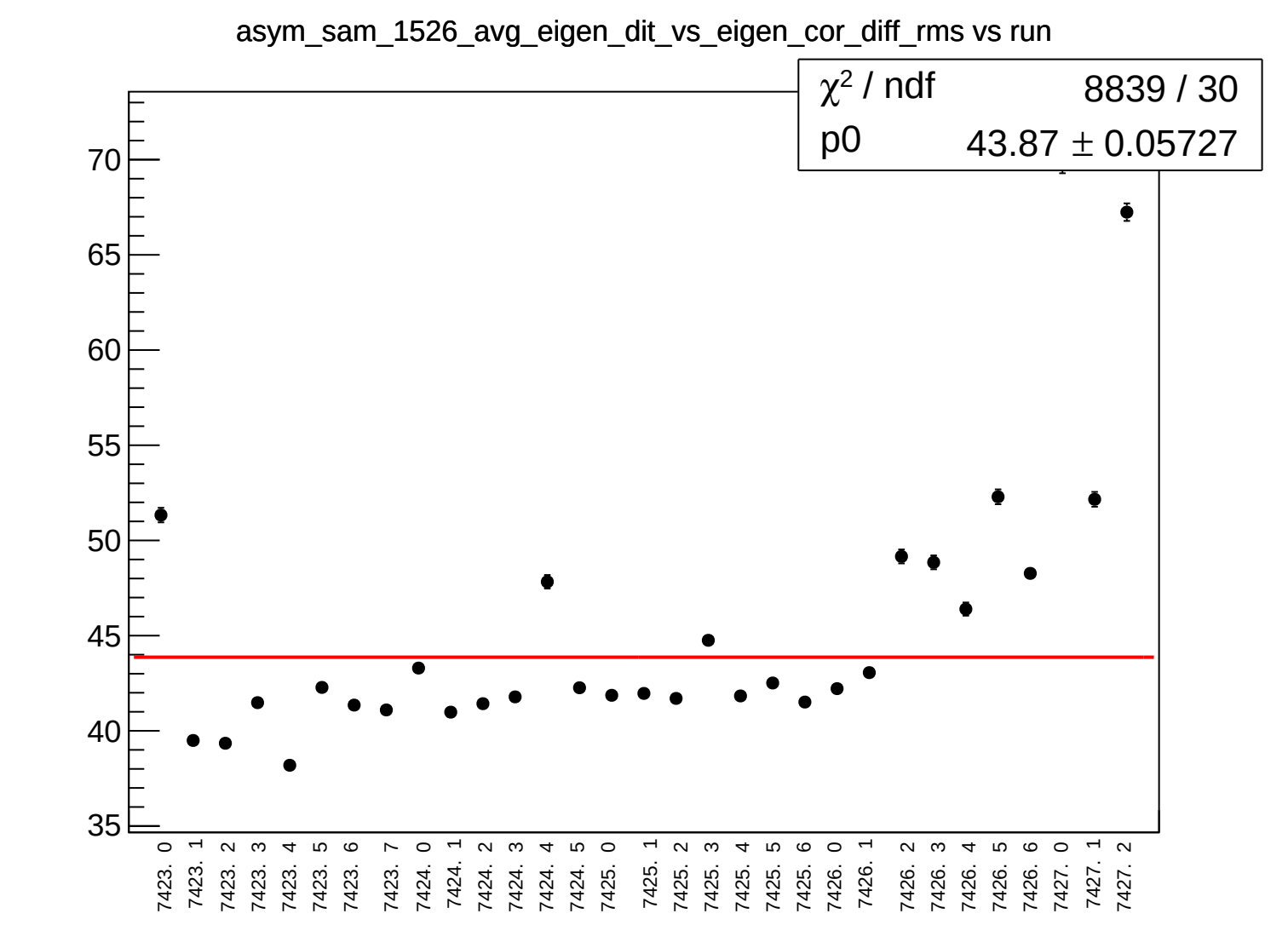

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8839 / 30
p0 43.87 ± 0.05727
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

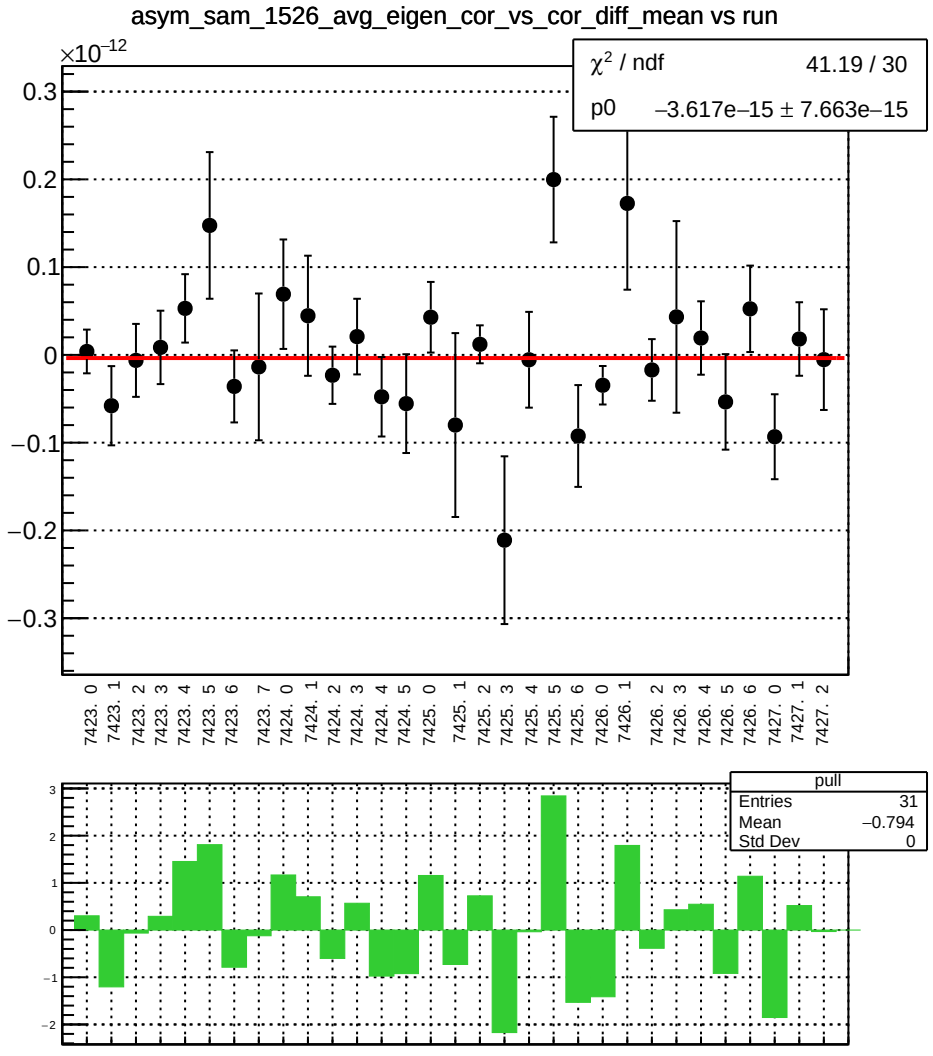
asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

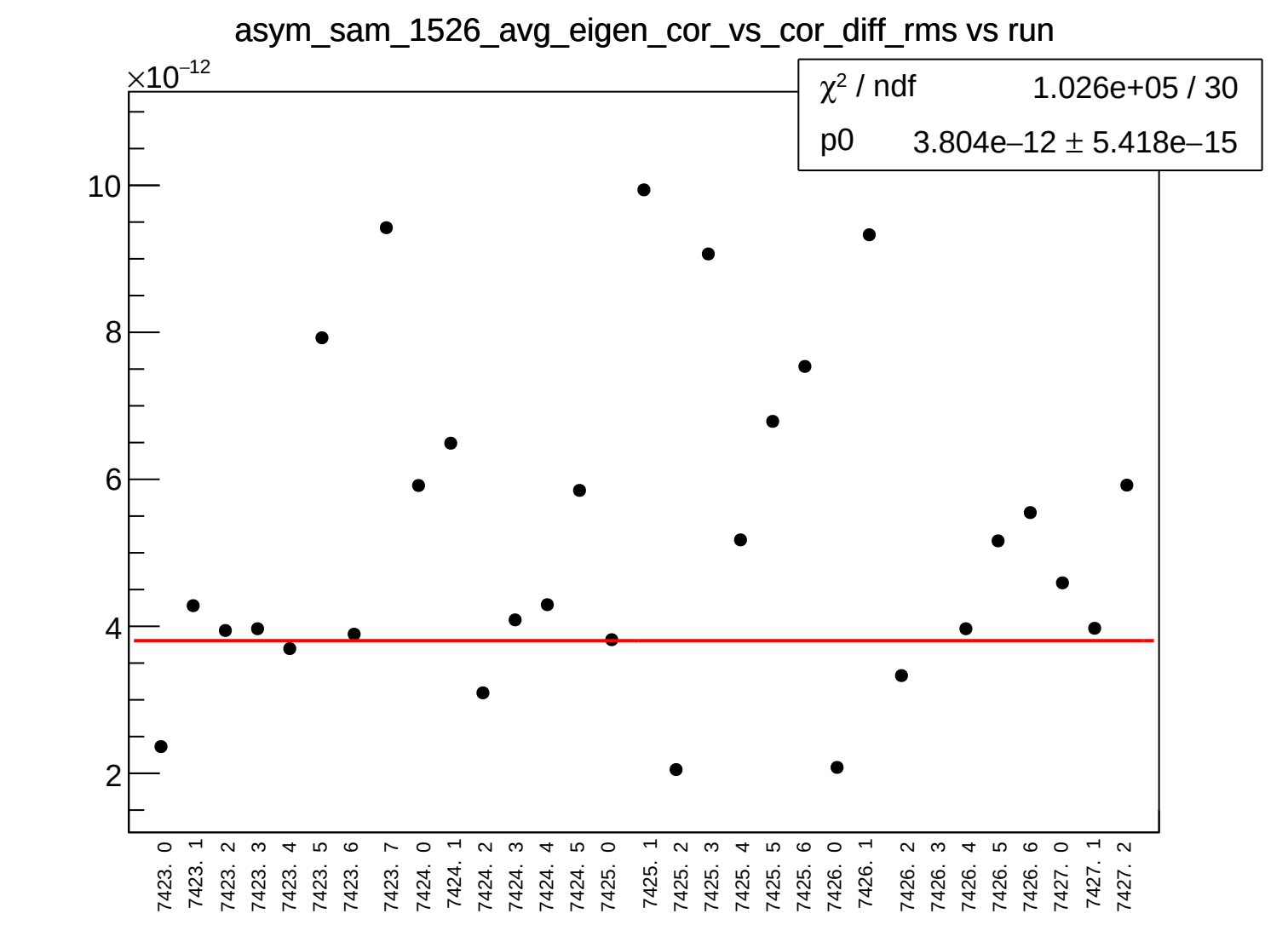


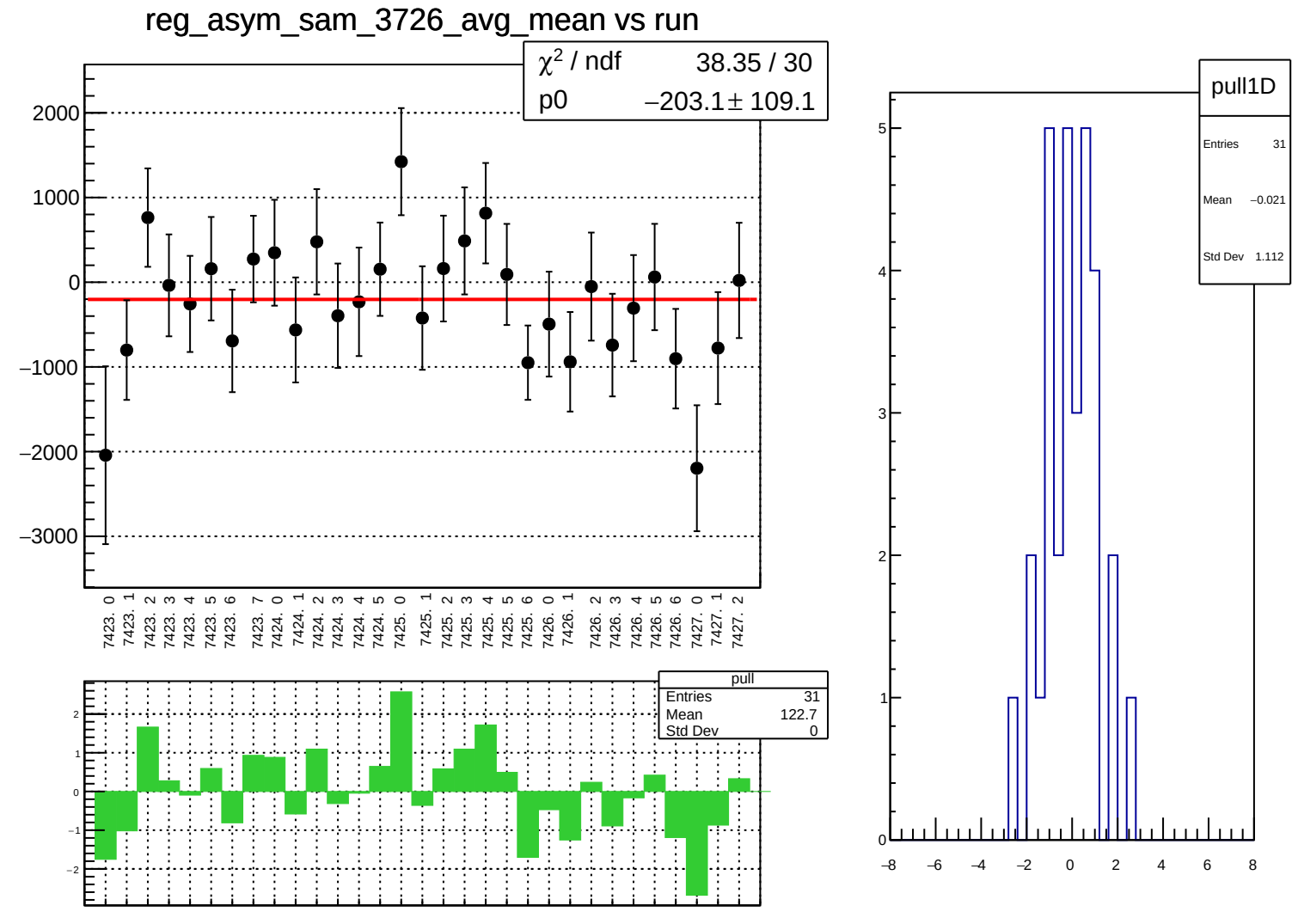


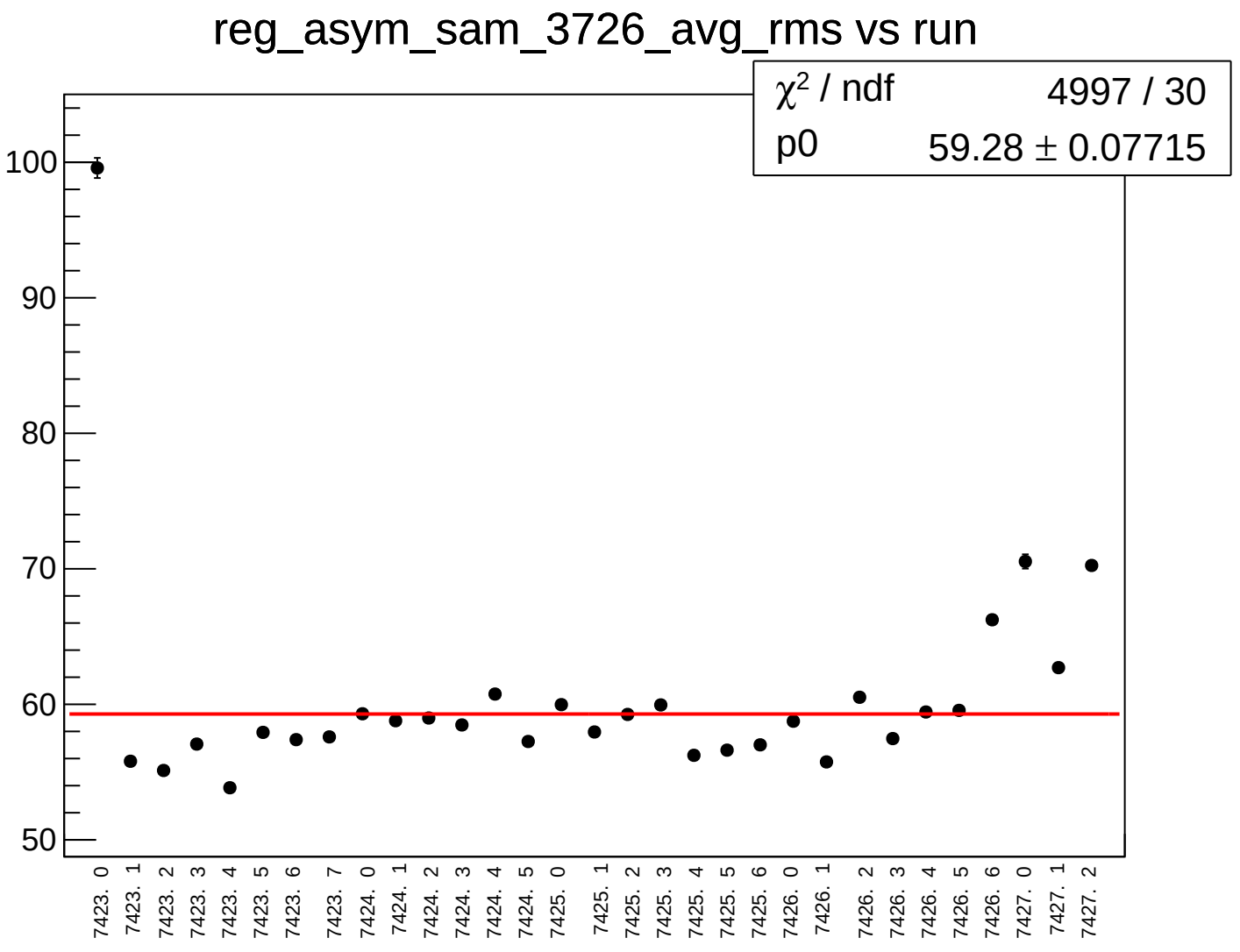


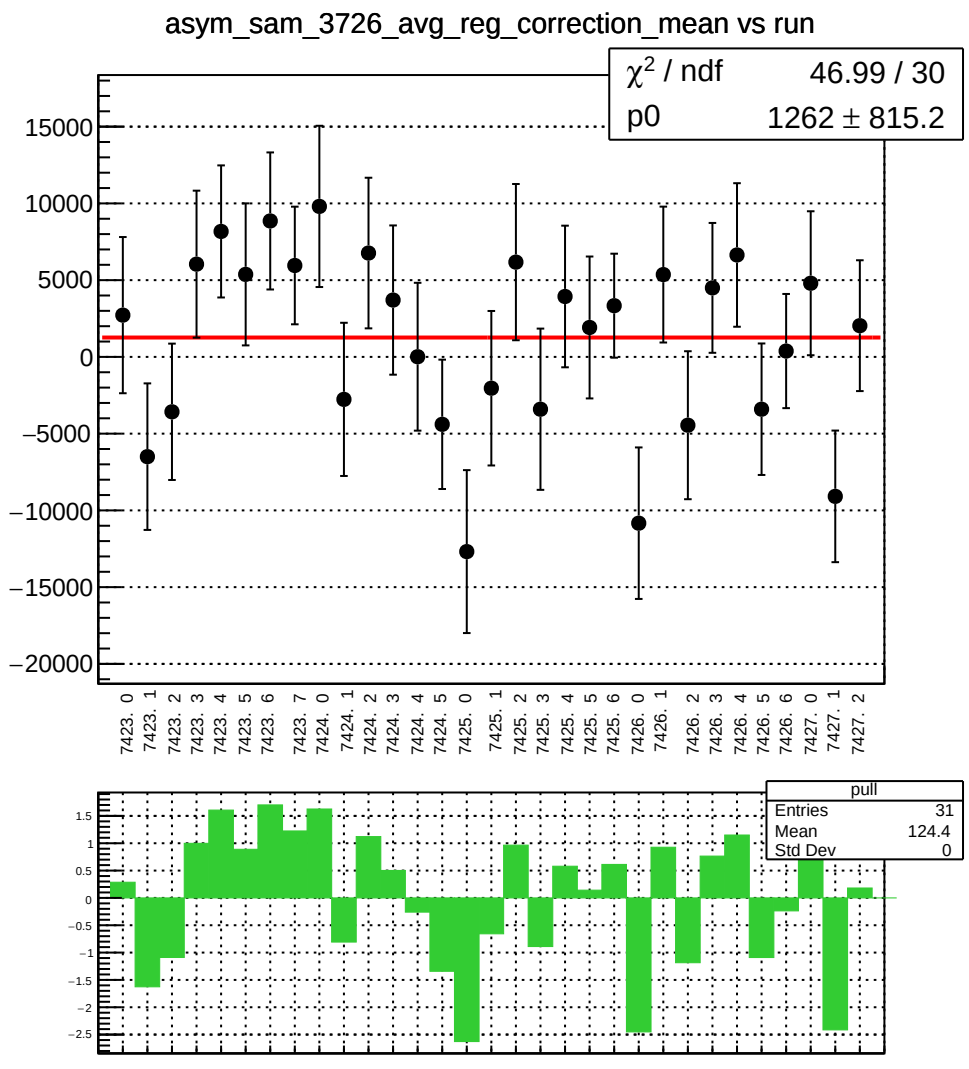

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8839 / 30
p0 43.87 ± 0.05727
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

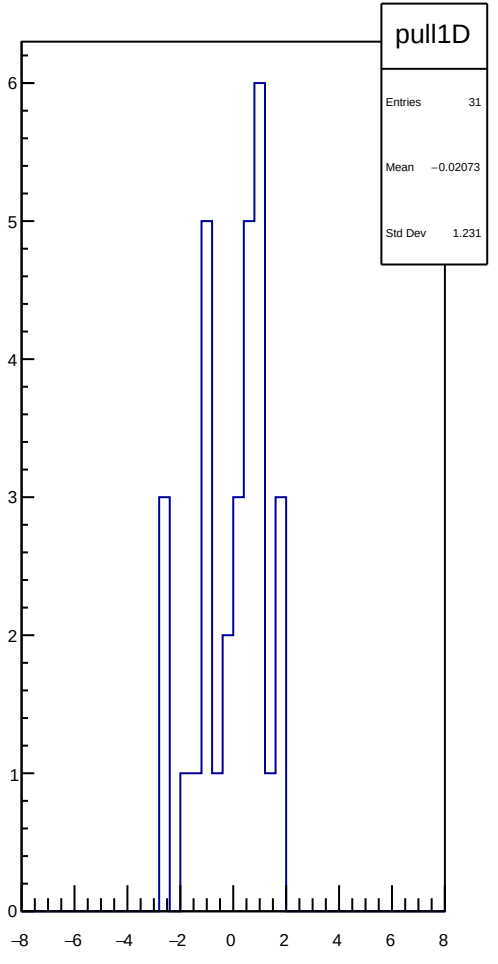

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 41.19 / 30
p0 −3.617e−15 ± 7.663e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −0.794
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.05506
Std Dev 1.151
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

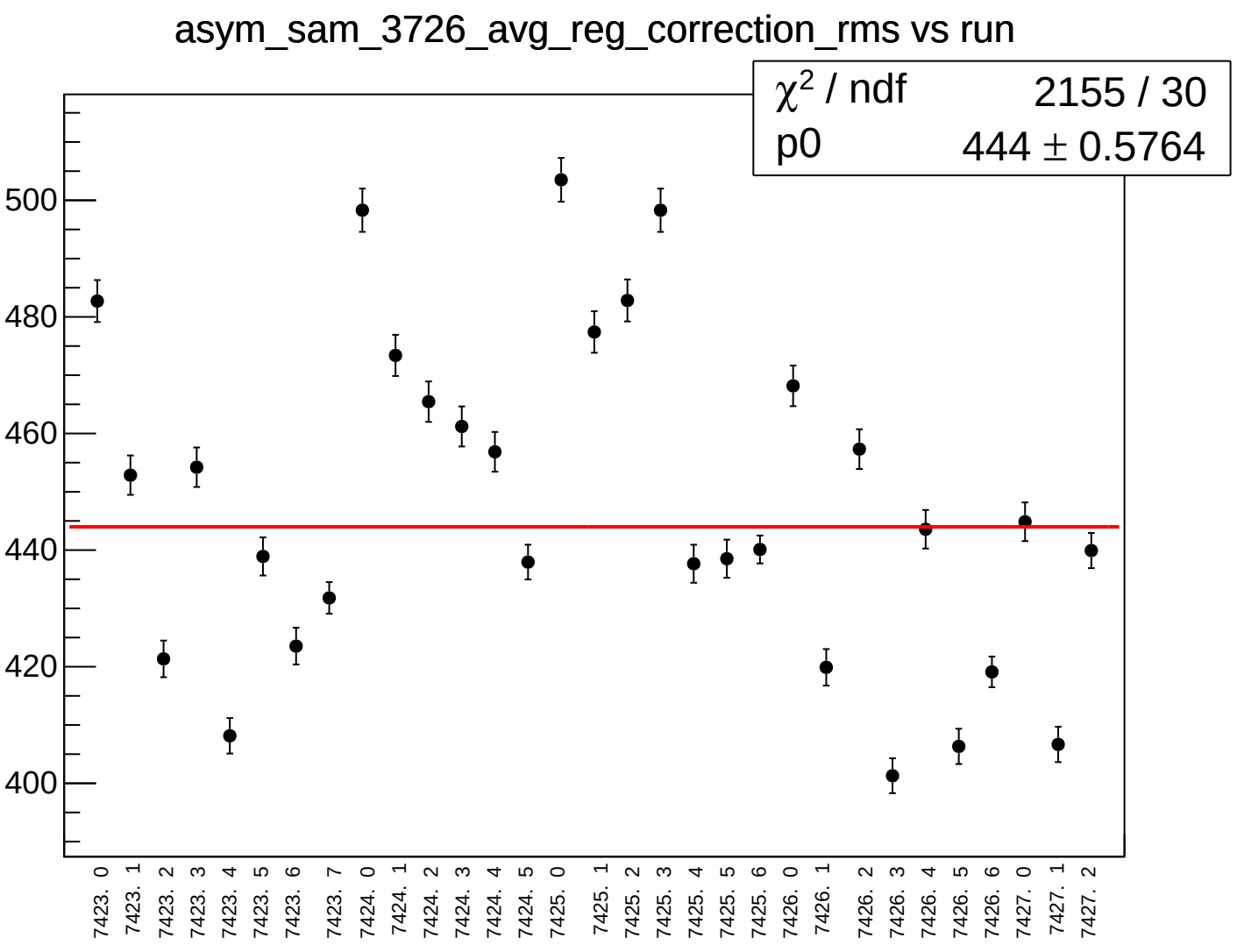

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.026e+05 / 30
p0 3.804e−12 ± 5.418e−15
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

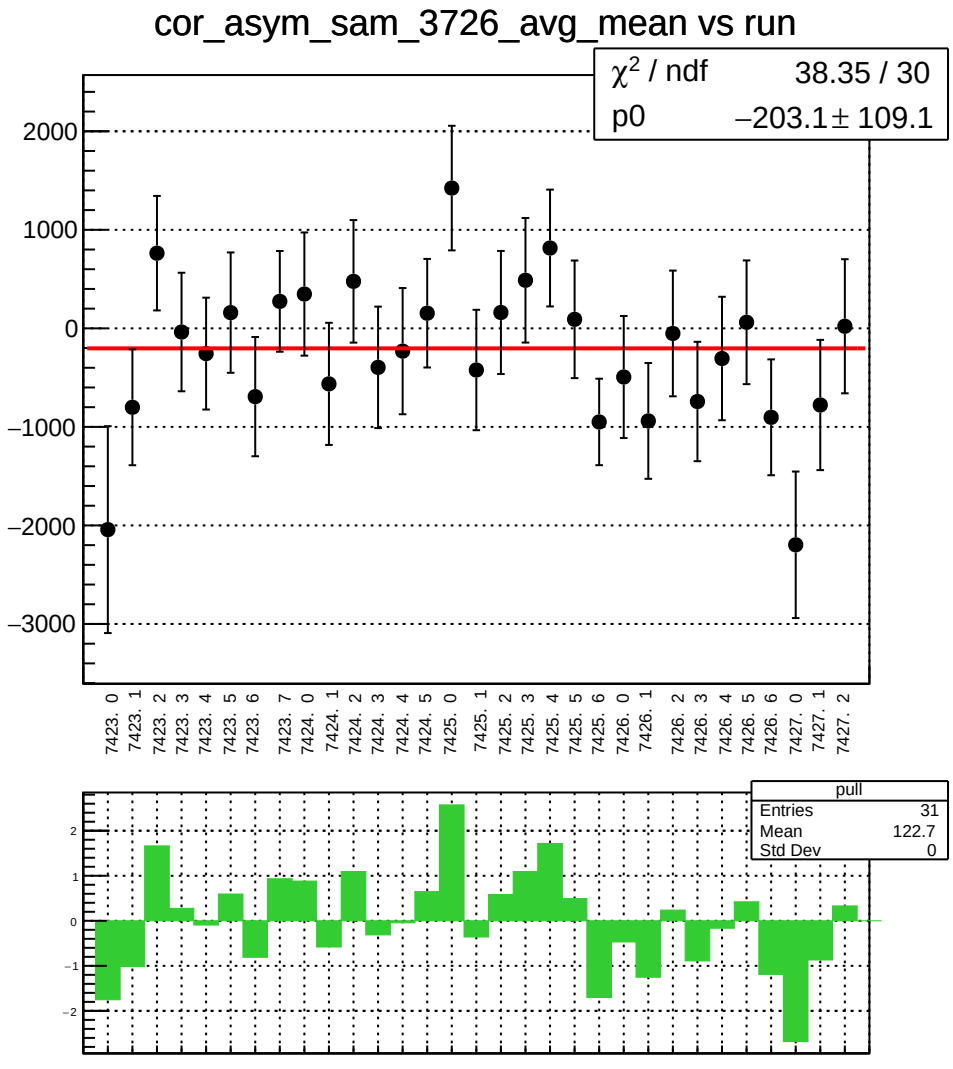

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 38.35 / 30
p0 −203.1 ± 109.1
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 122.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.021
Std Dev 1.112
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

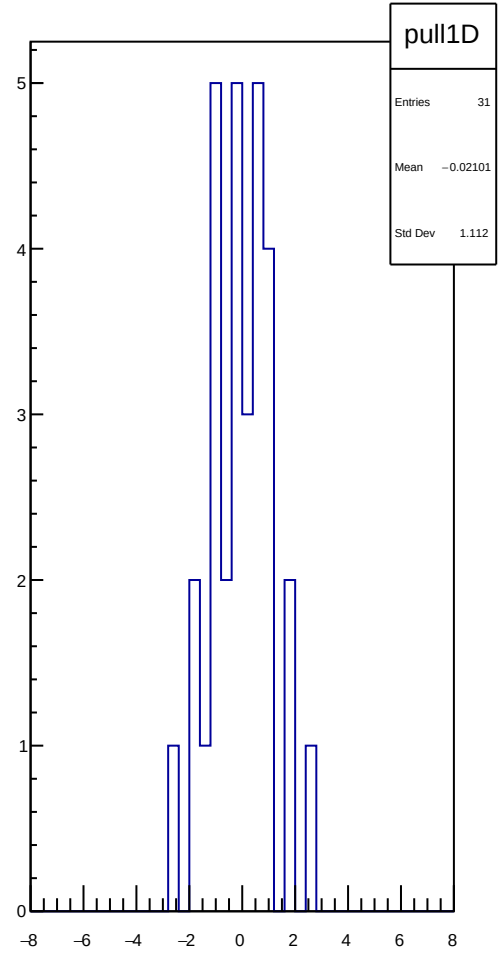

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 4997 / 30
p0 59.28 ± 0.07715
100
90
80
70
60
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

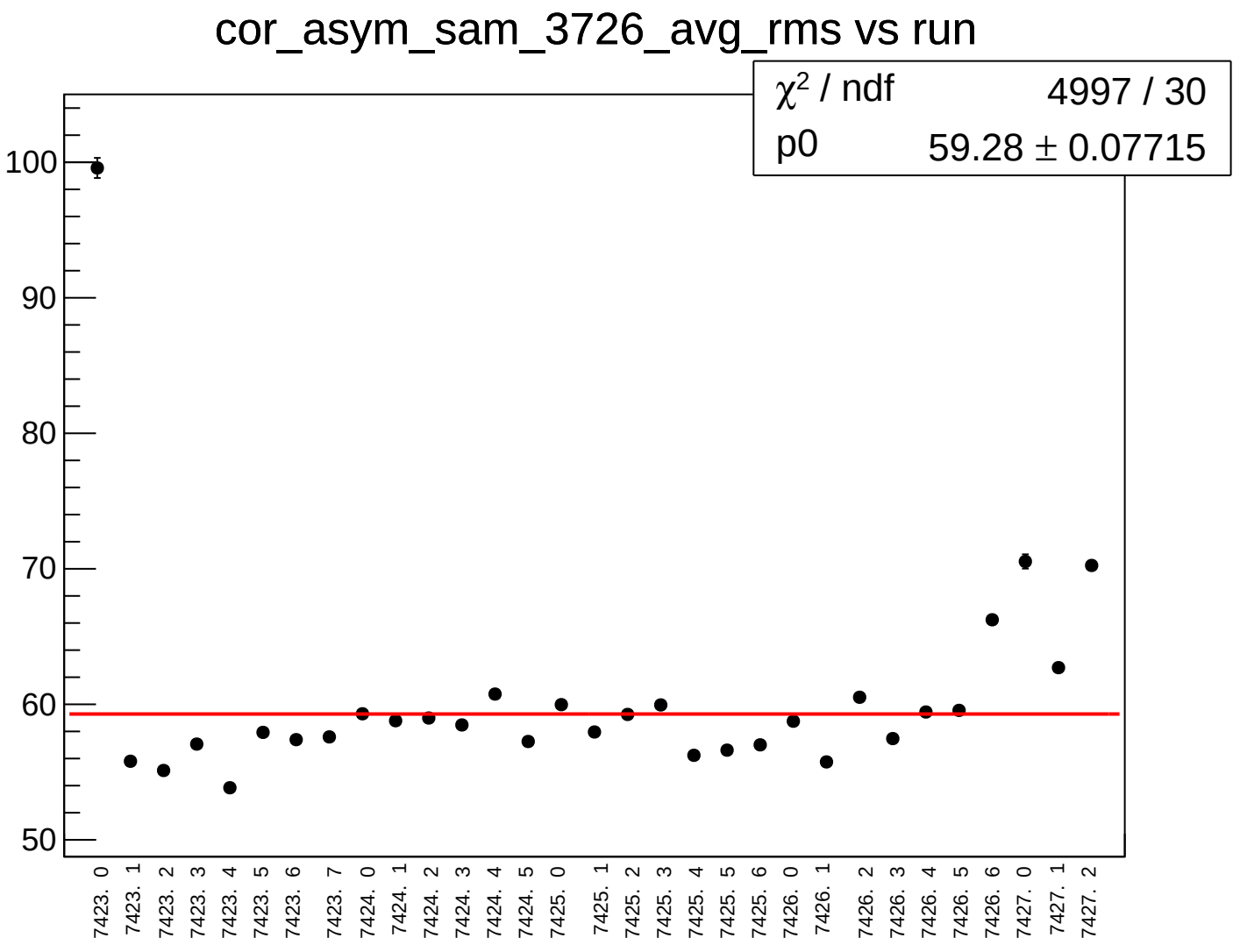

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 46.99 / 30
p0 1262 ± 815.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

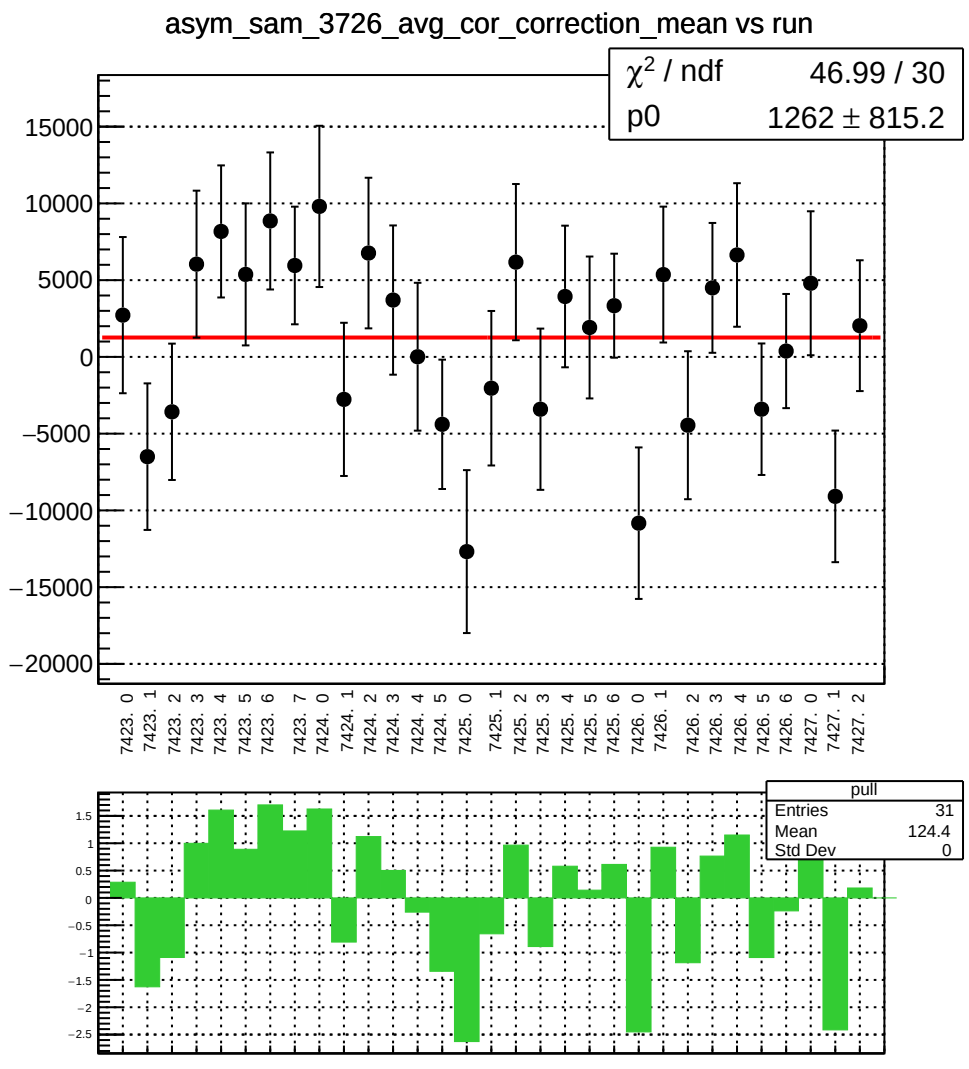

pull1D
Entries 31
Mean −0.02073
Std Dev 1.231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

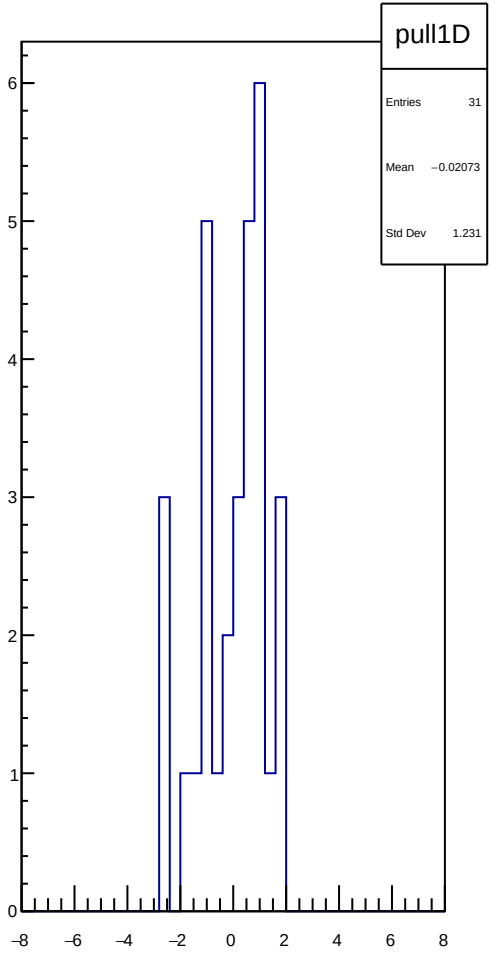

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 2155 / 30
p0 444 ± 0.5764
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

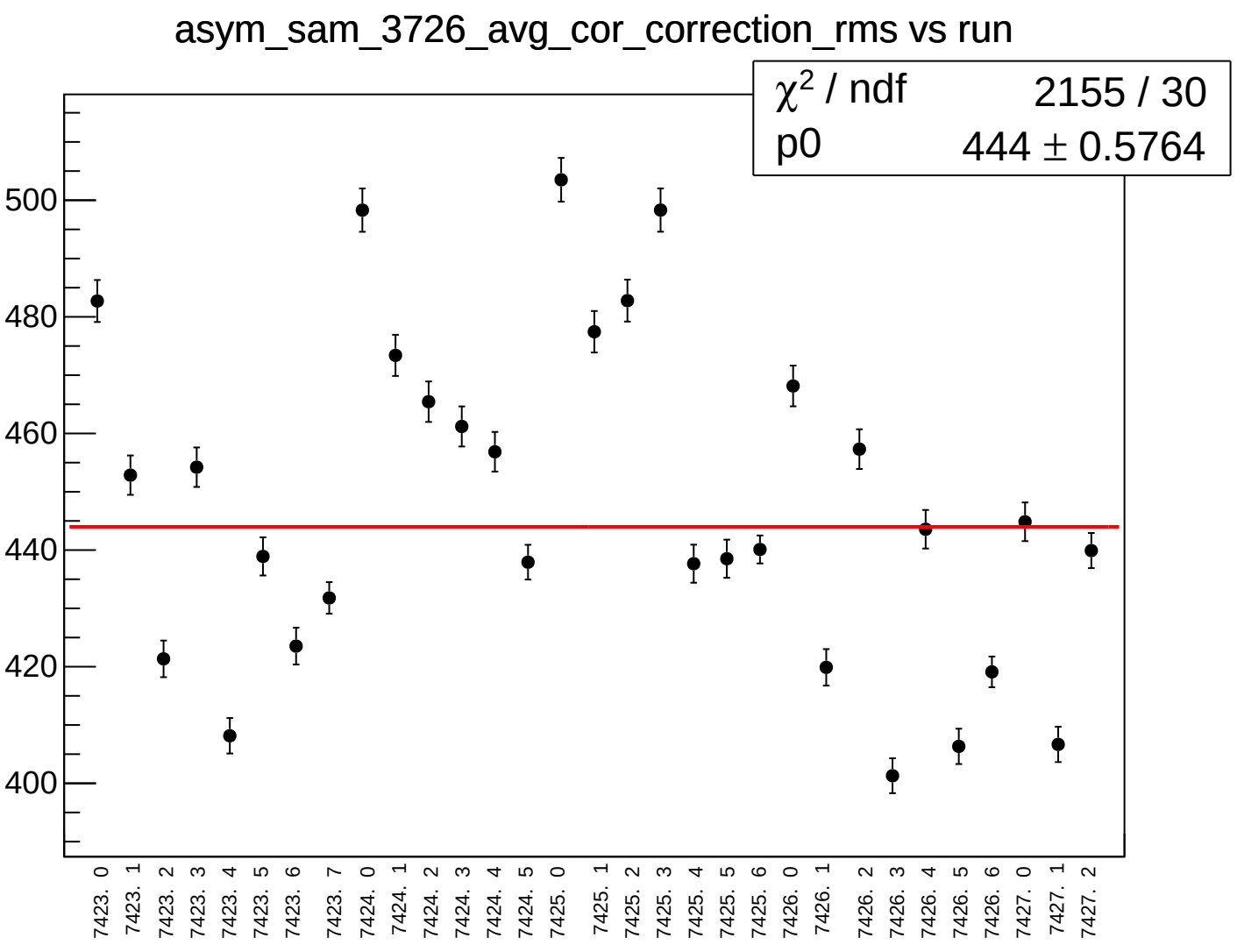

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 38.35 / 30
p0 −203.1 ± 109.1
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 122.7
Std Dev 0
2
1
0
−1
−2

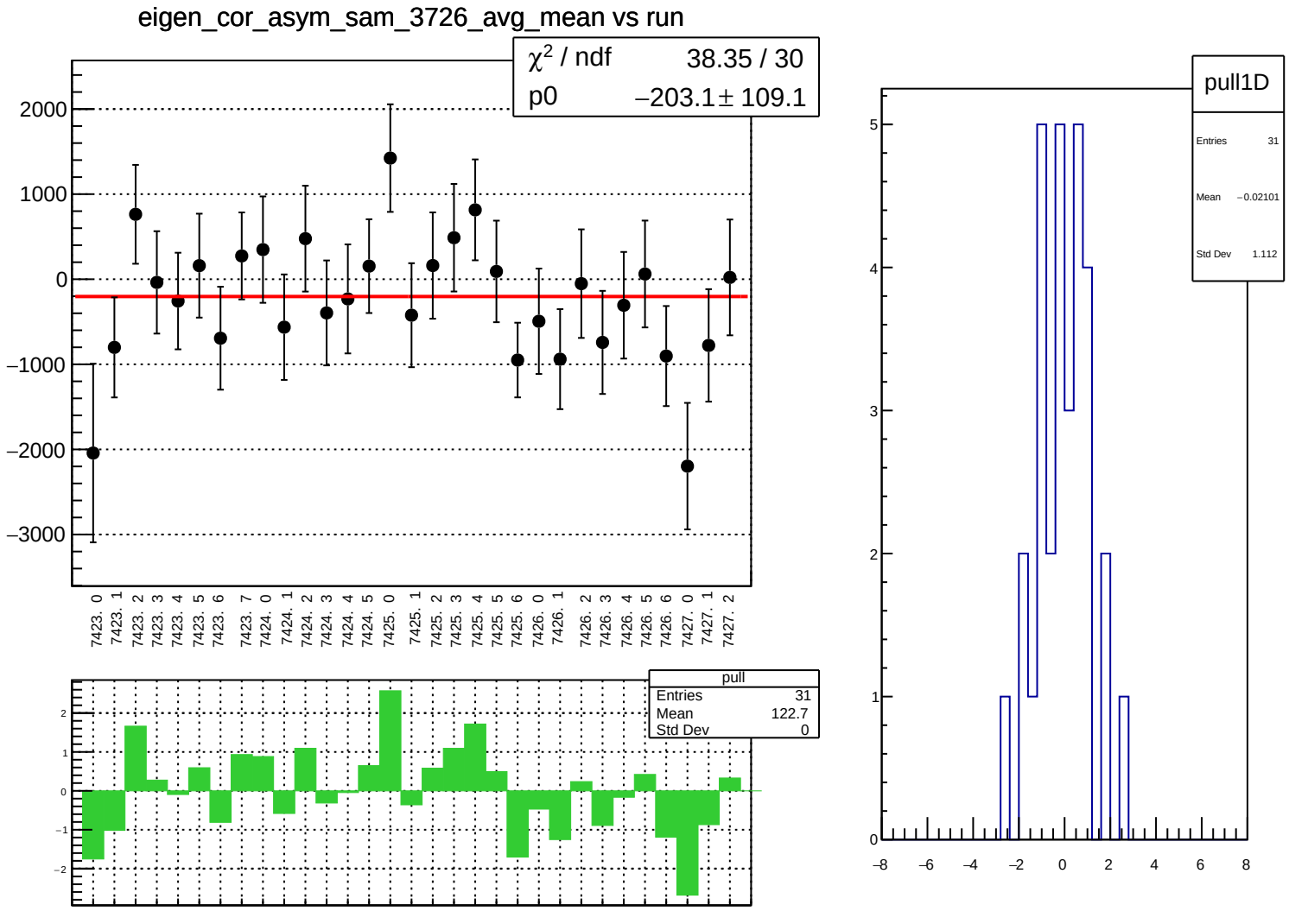

pull1D
Entries 31
Mean −0.02101
Std Dev 1.112
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

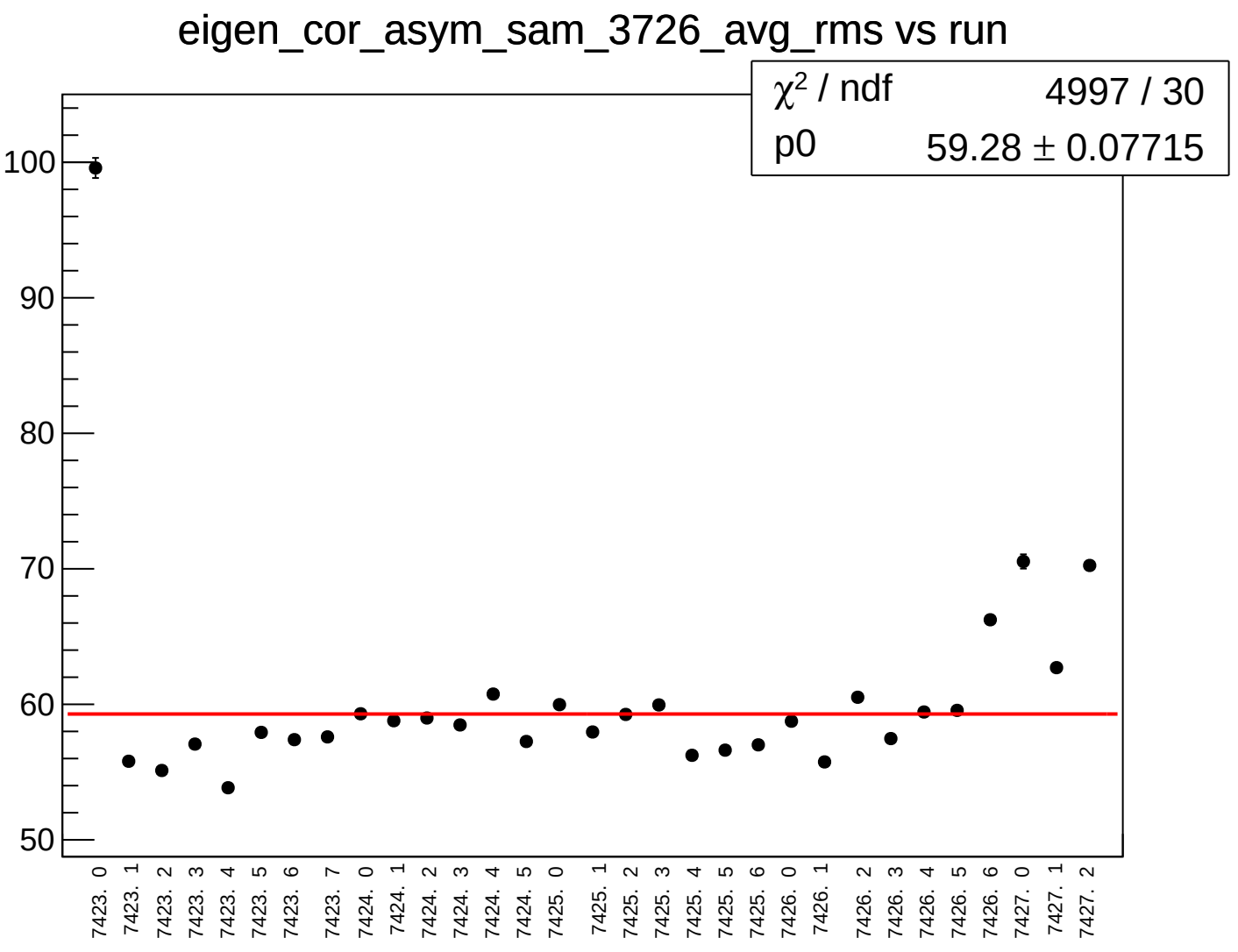

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4997 / 30
p0 59.28 ± 0.07715
100
90
80
70
60
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

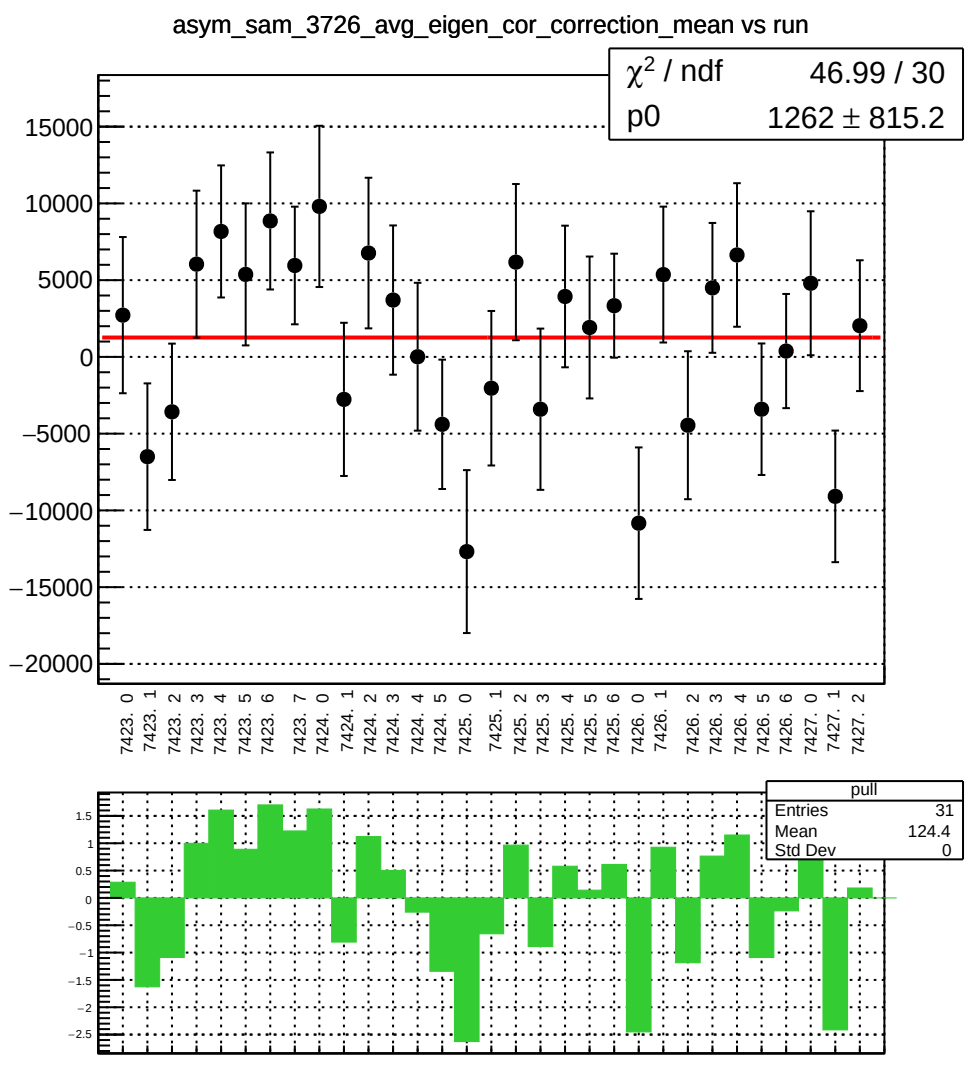

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 46.99 / 30
p0 1262 ± 815.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

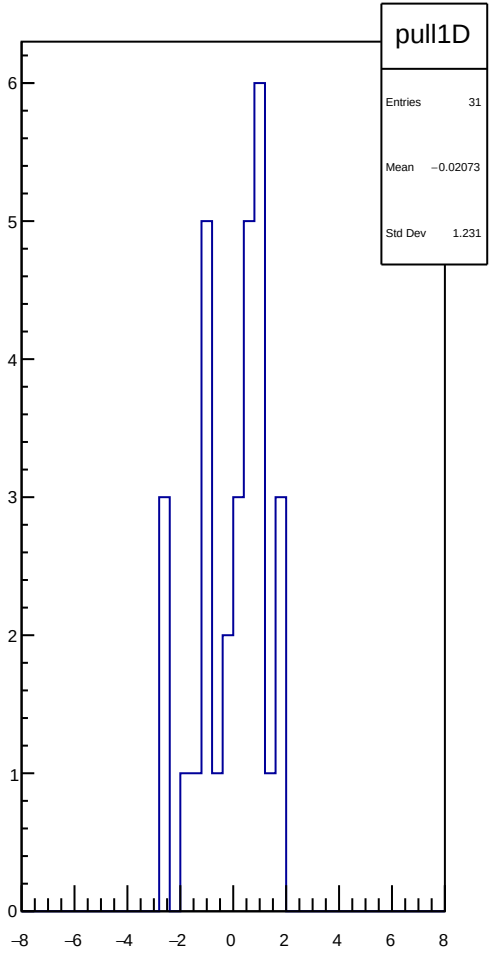

pull1D
Entries 31
Mean −0.02073
Std Dev 1.231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

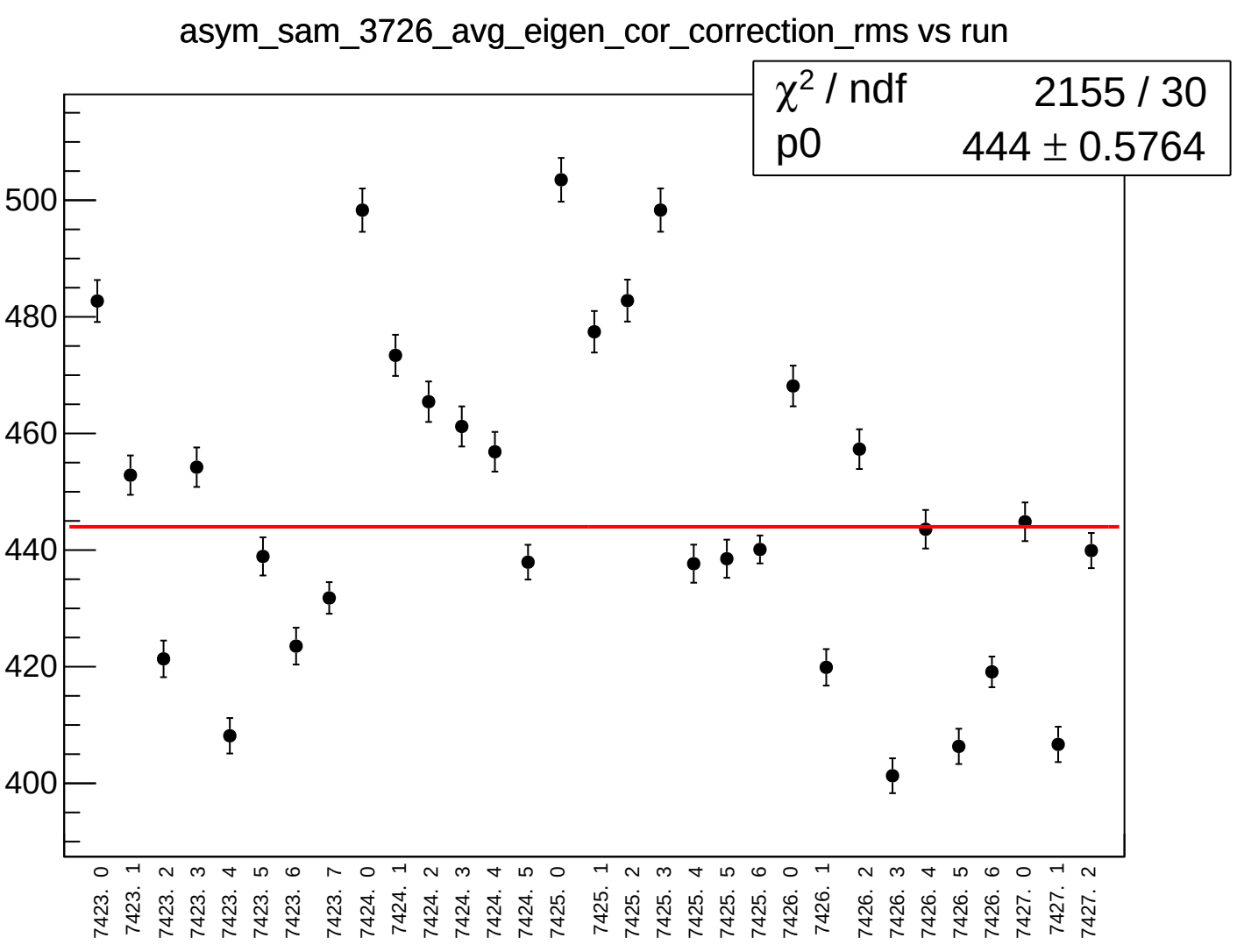

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 2155 / 30
p0 444 ± 0.5764
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

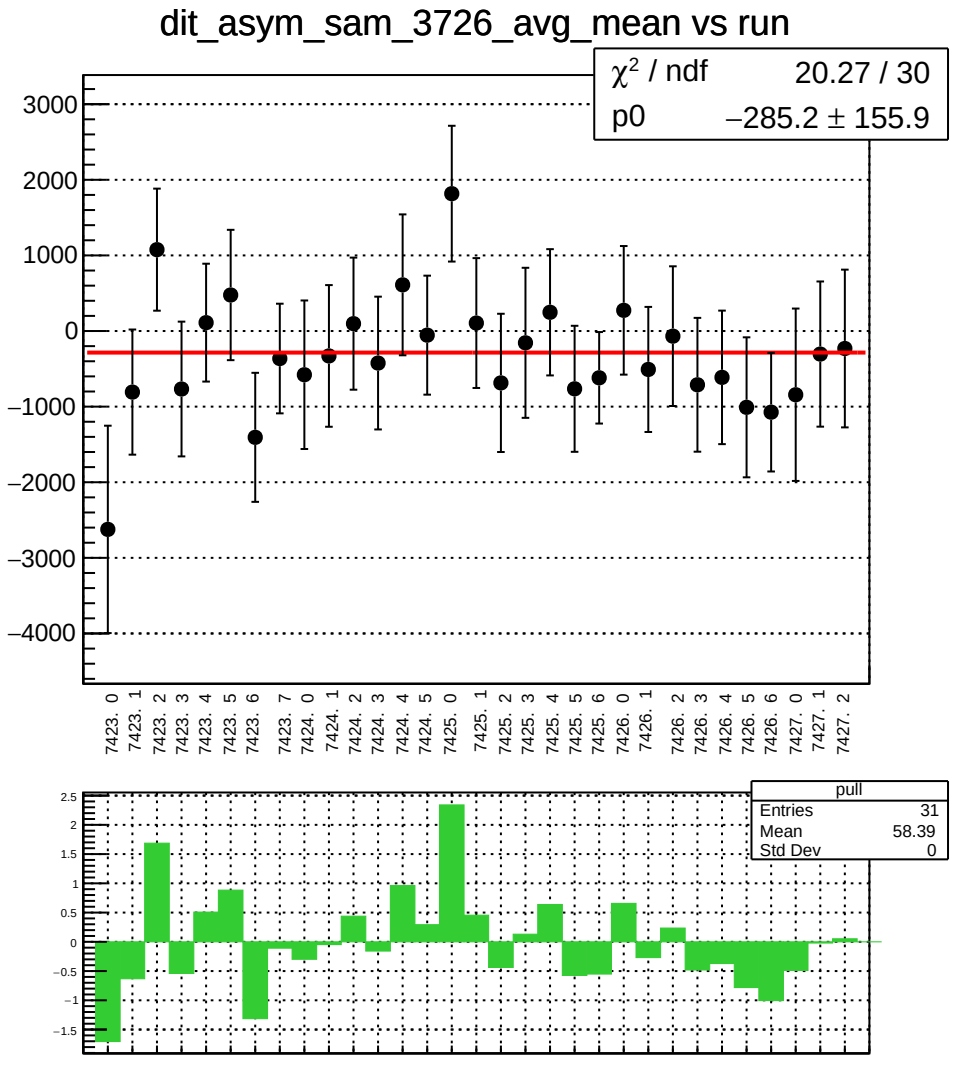

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 38.35 / 30
p0 −203.1 ± 109.1
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 122.7
Std Dev 0
pull1D
Entries 31
Mean −0.02101
Std Dev 1.112

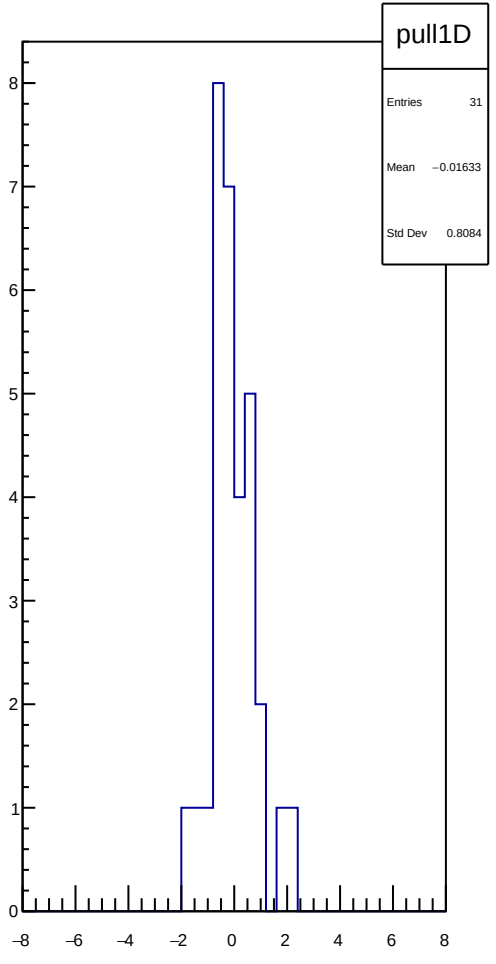

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4997 / 30
p0 59.28 ± 0.07715
100
90
80
70
60
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

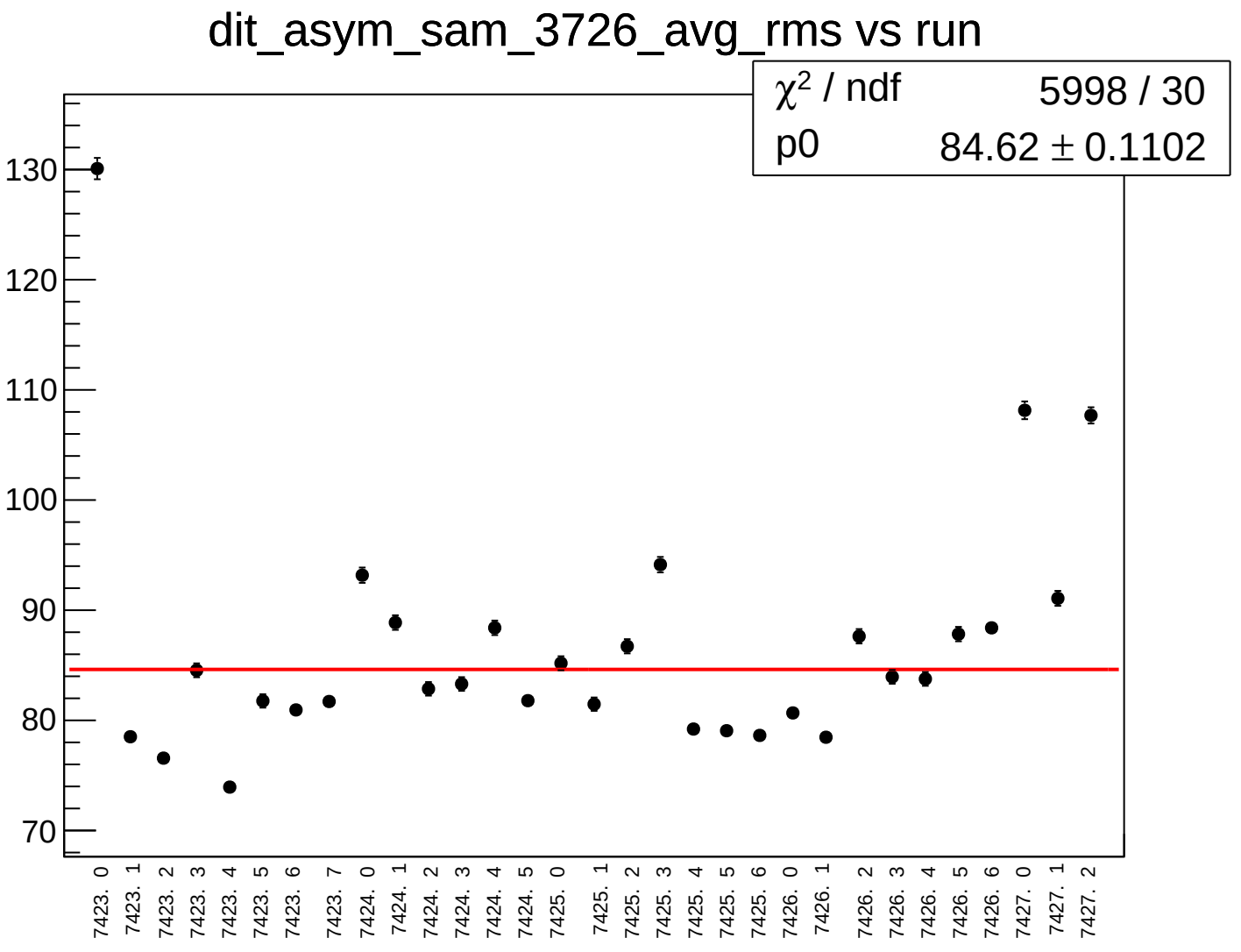

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 46.99 / 30
p0 1262 ± 815.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

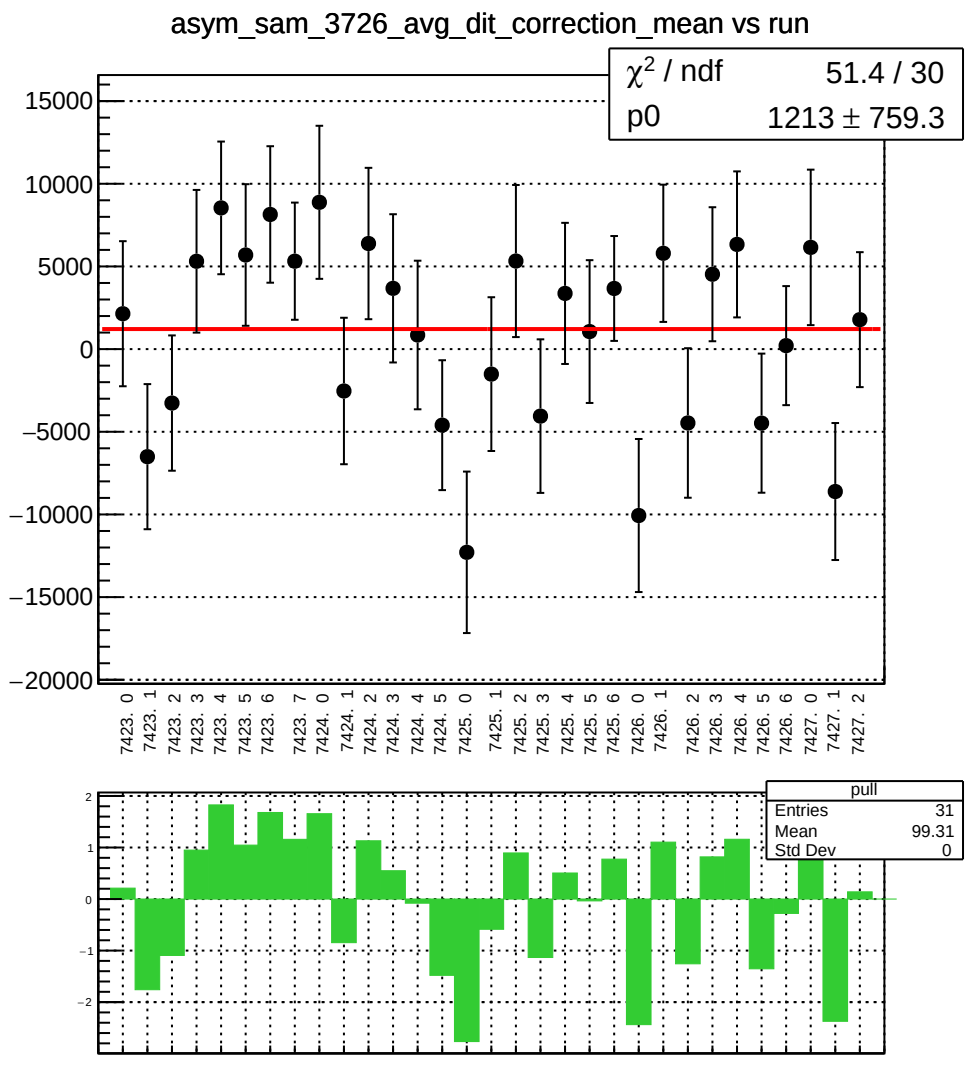

pull1D
Entries 31
Mean −0.02073
Std Dev 1.231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

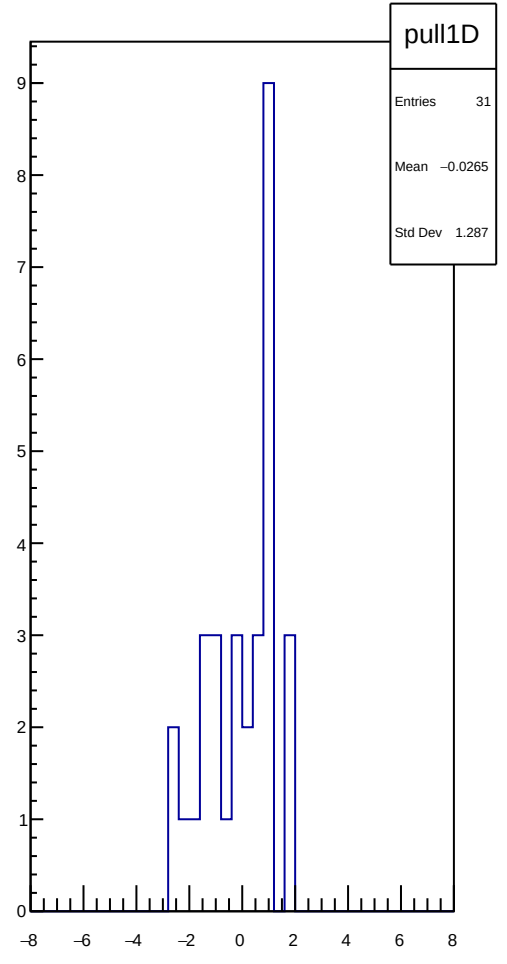

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 2155 / 30
p0 444 ± 0.5764
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

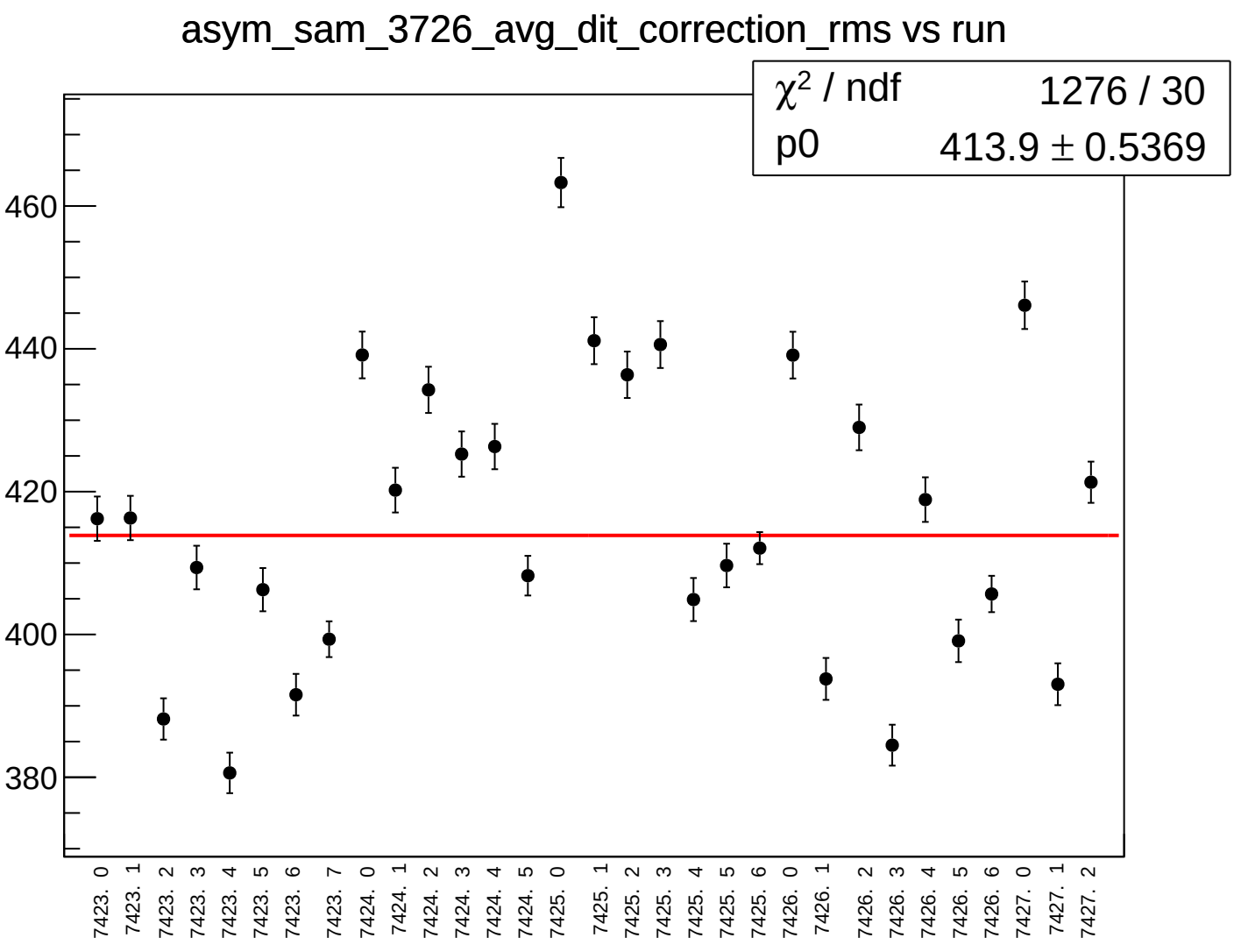

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 20.27 / 30
p0 −285.2 ± 155.9
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 58.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

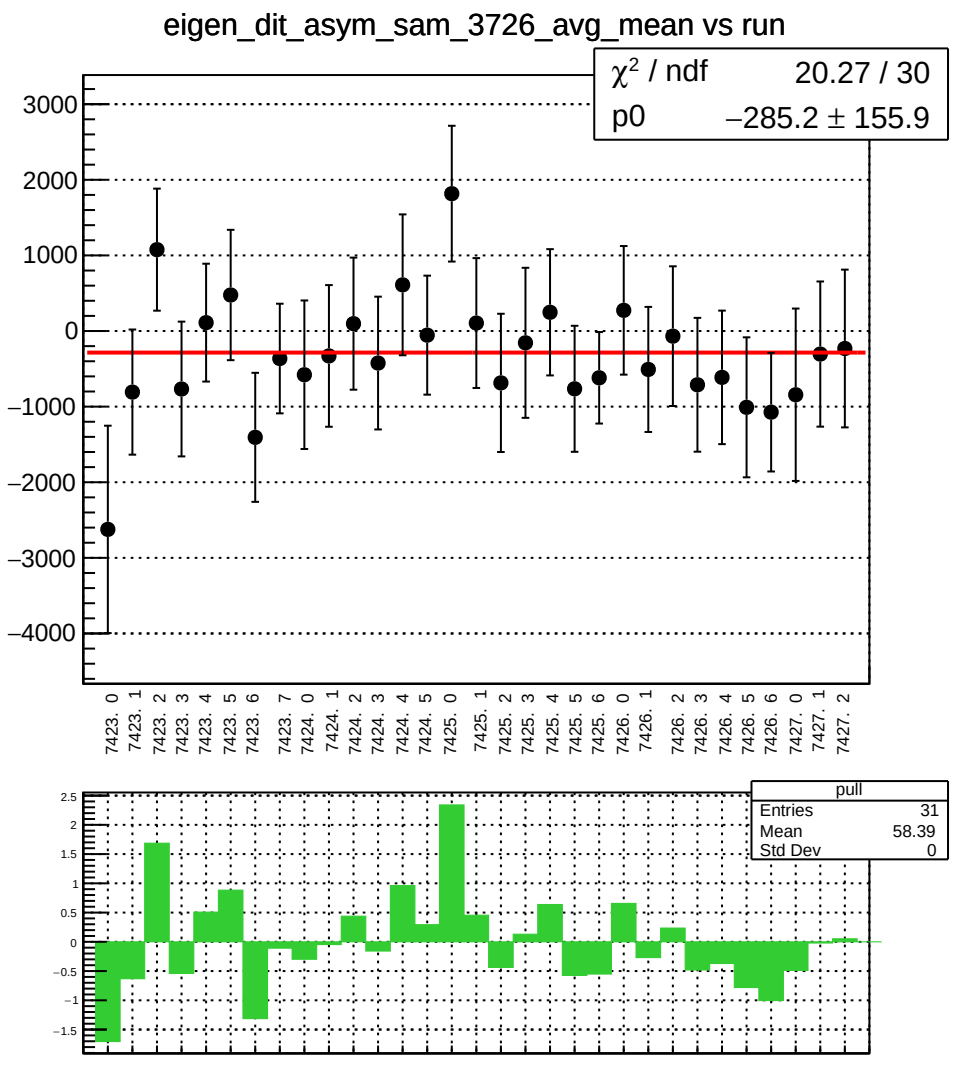

pull1D
Entries 31
Mean −0.01633
Std Dev 0.8084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

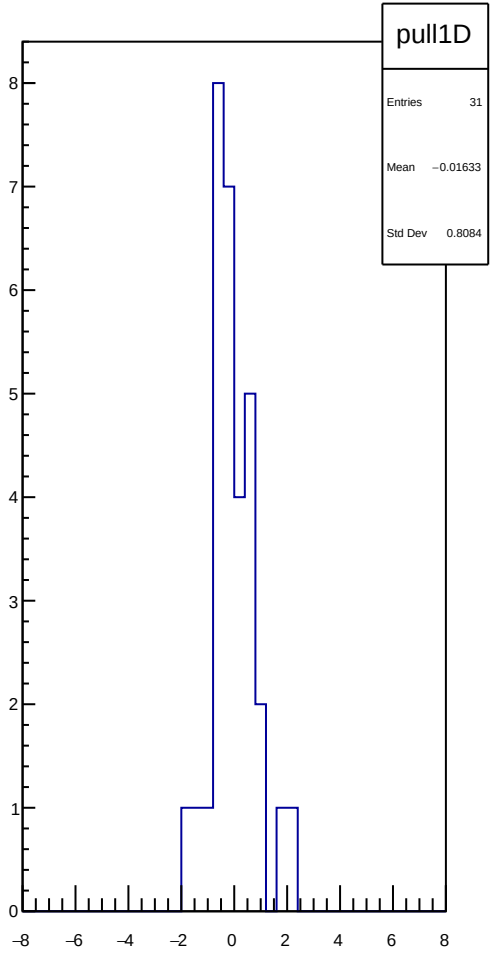

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 5998 / 30
p0 84.62 ± 0.1102
130
120
110
100
90
80
70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

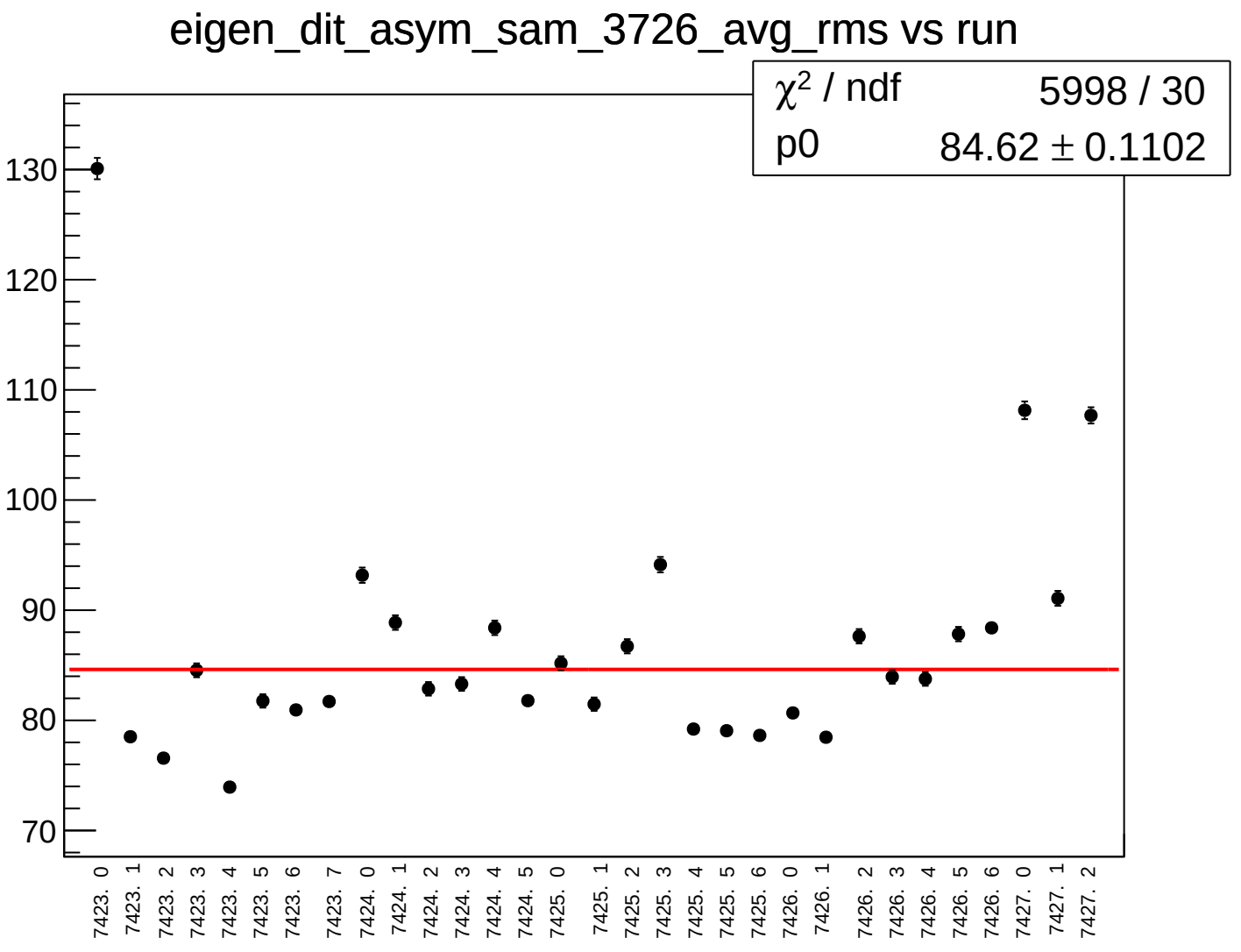

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 51.4 / 30
p0 1213 ± 759.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 99.31
Std Dev 0
2
1
0
−1
−2

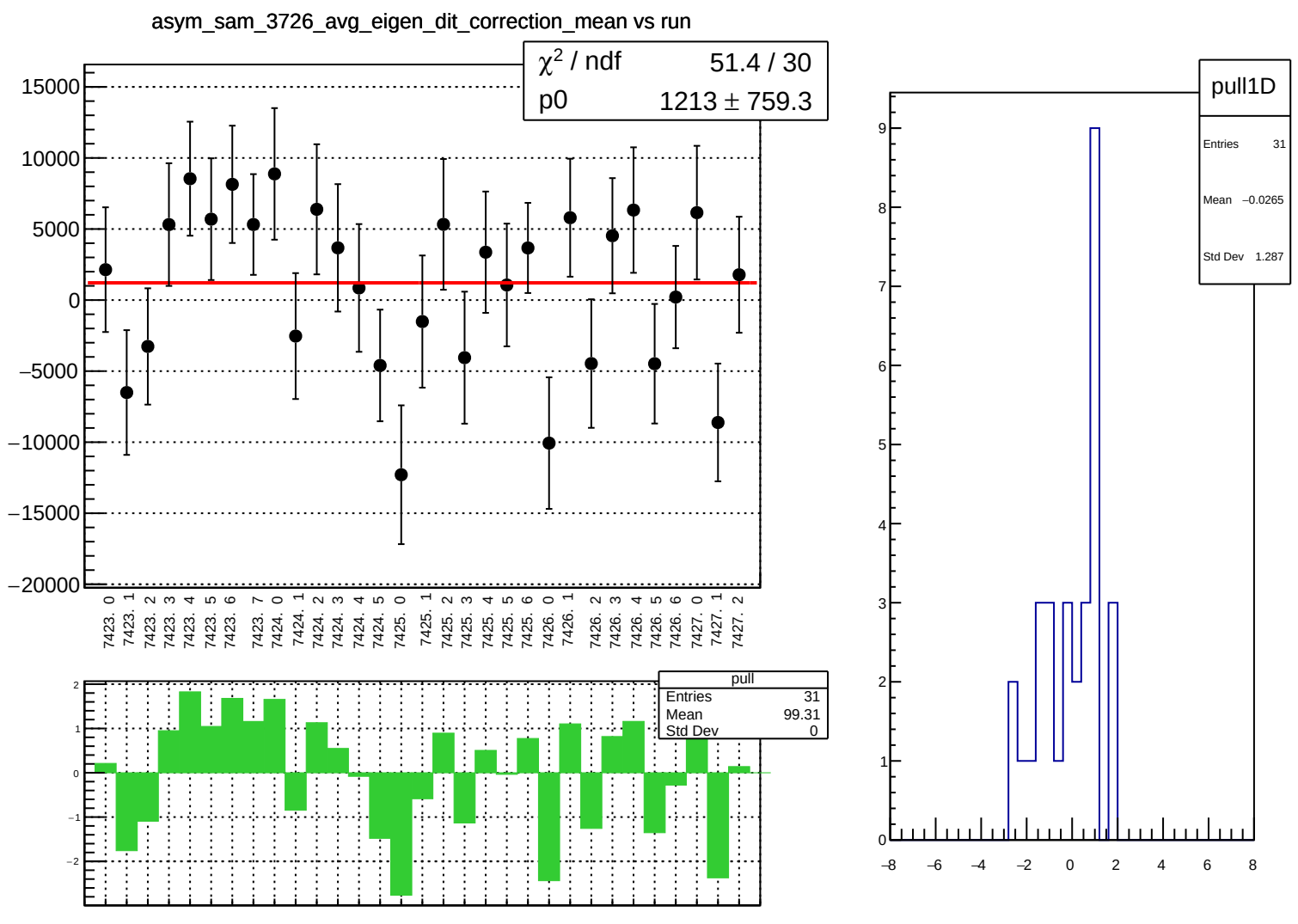

pull1D
Entries 31
Mean −0.0265
Std Dev 1.287
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

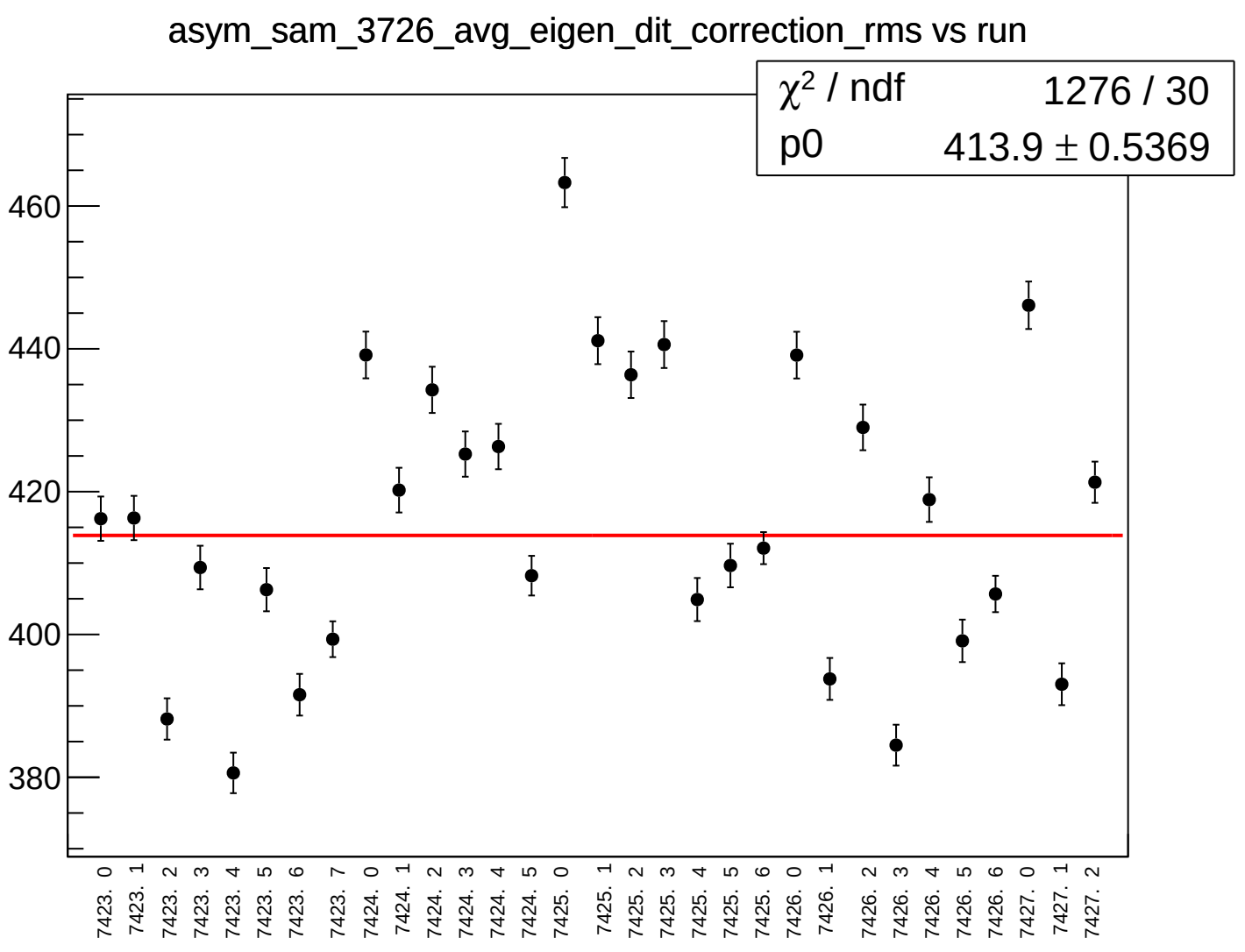

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1276 / 30
p0 413.9 ± 0.5369
460
440
420
400
380
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

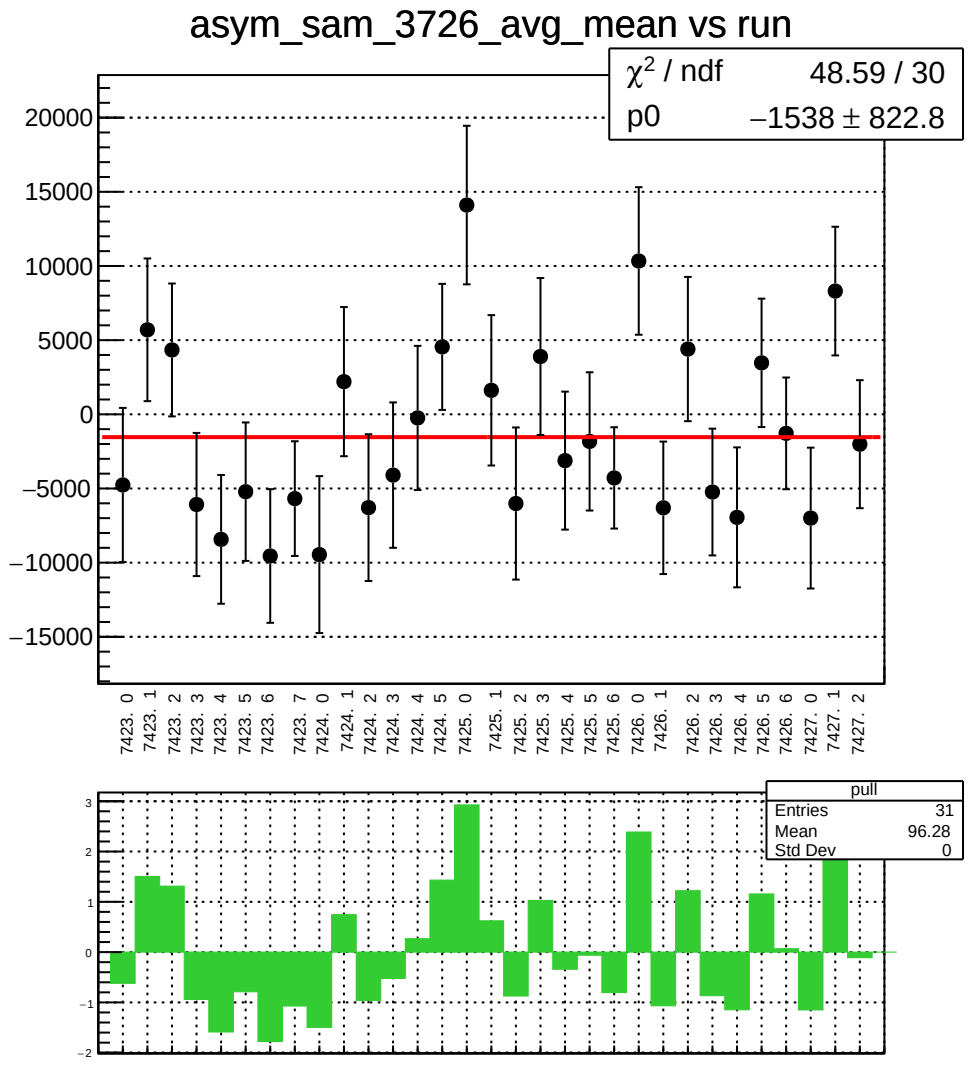

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 20.27 / 30
p0 −285.2 ± 155.9
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 58.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

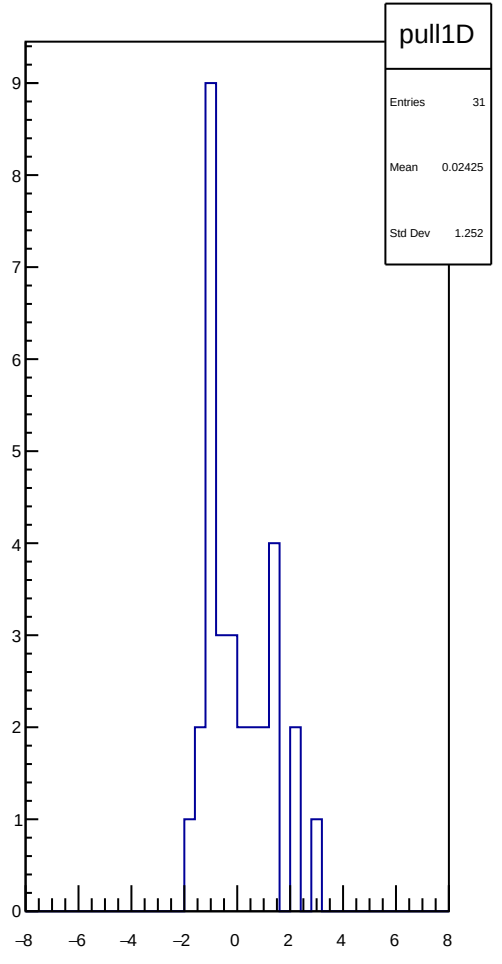

pull1D
Entries 31
Mean −0.01633
Std Dev 0.8084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

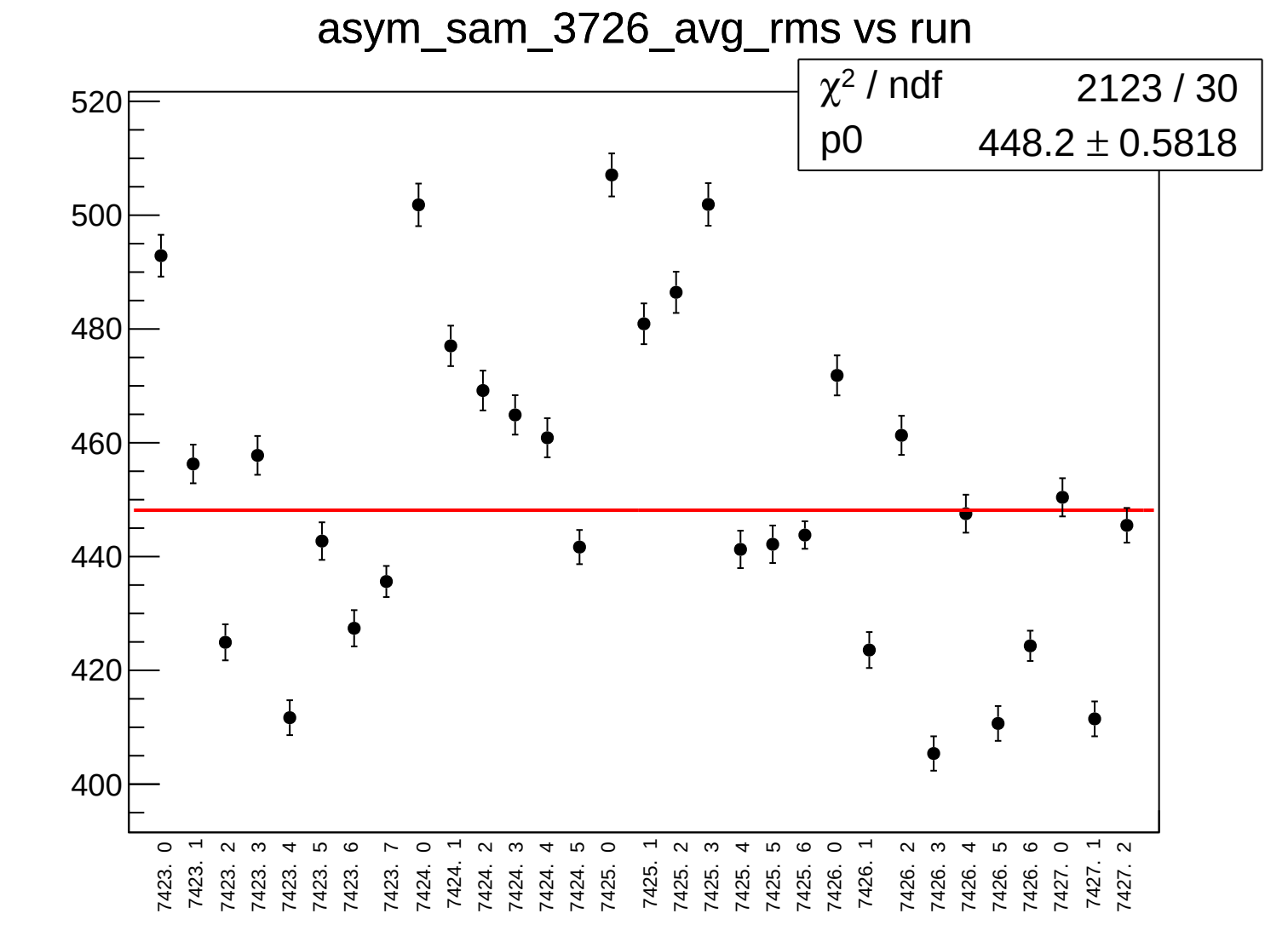

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 5998 / 30
p0 84.62 ± 0.1102
130
120
110
100
90
80
70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

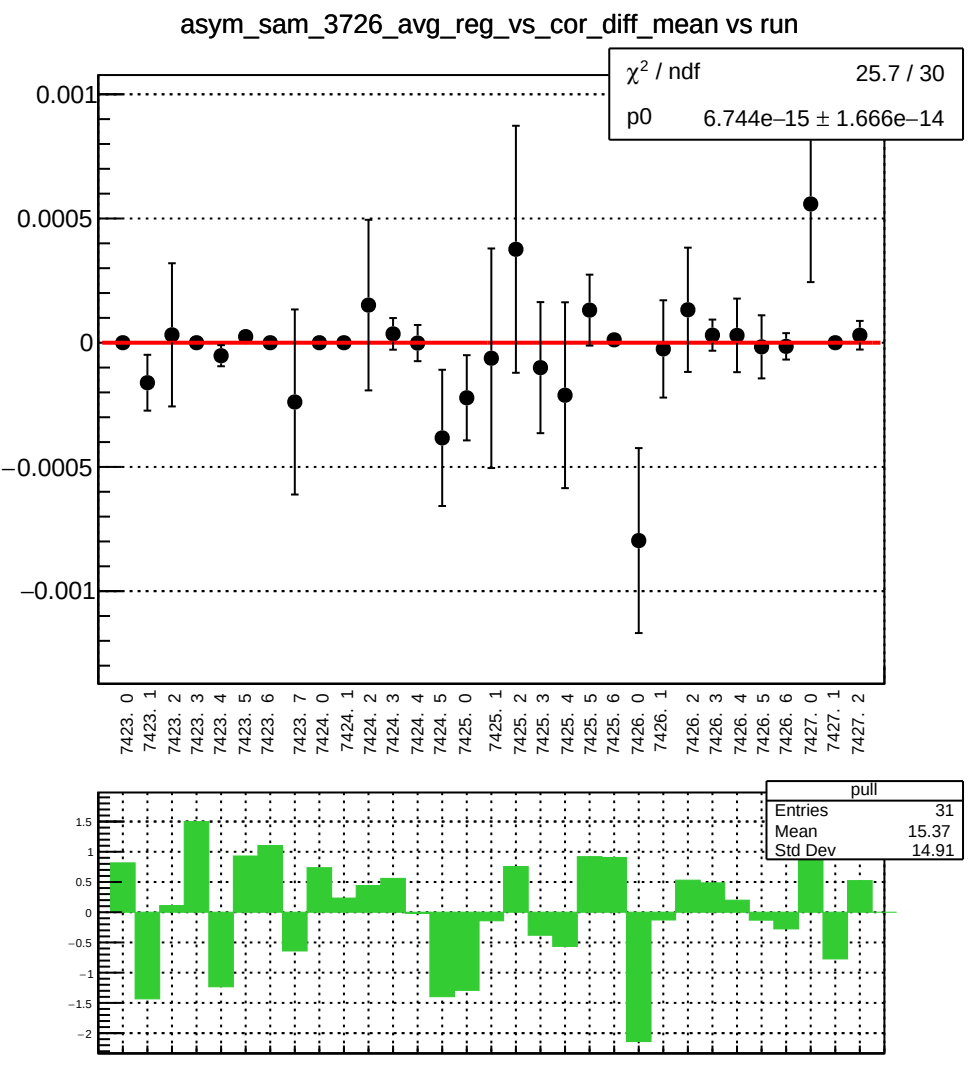

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 51.4 / 30
p0 1213 ± 759.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 99.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.0265
Std Dev 1.287
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

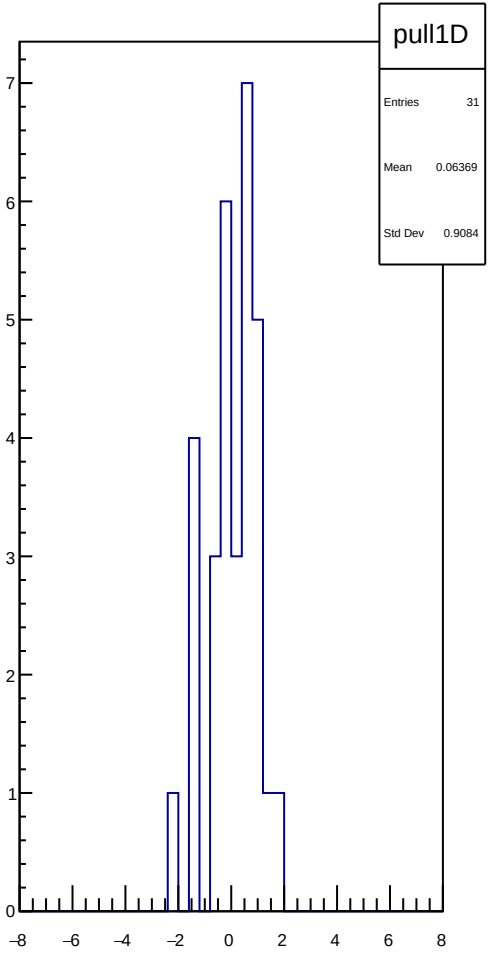

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1276 / 30
p0 413.9 ± 0.5369
460
440
420
400
380
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

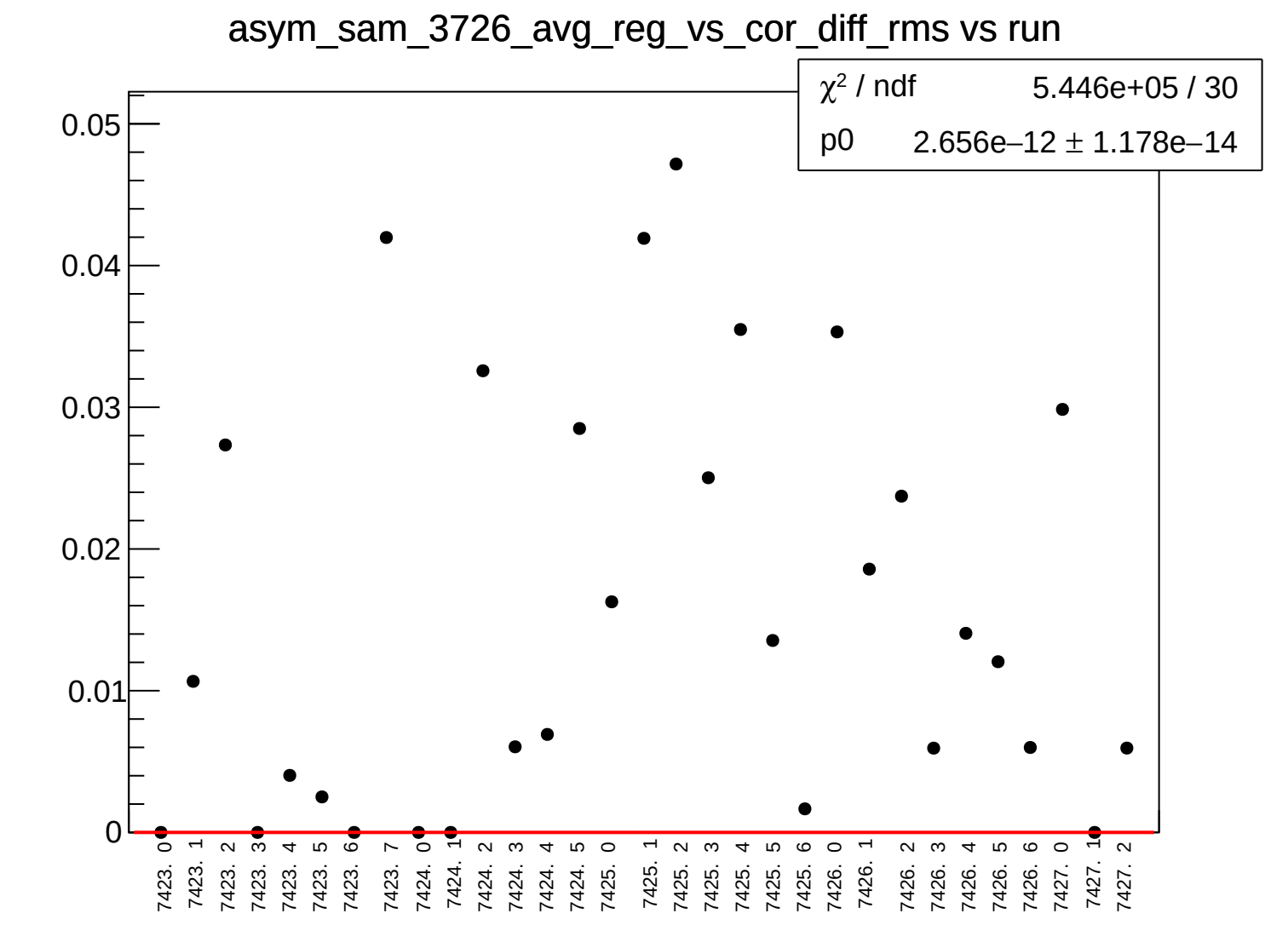

asym_sam_3726_avg_mean vs run
χ² / ndf 48.59 / 30
p0 −1538 ± 822.8
20000
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 96.28
Std Dev 0
3
2
1
0
−1
−2

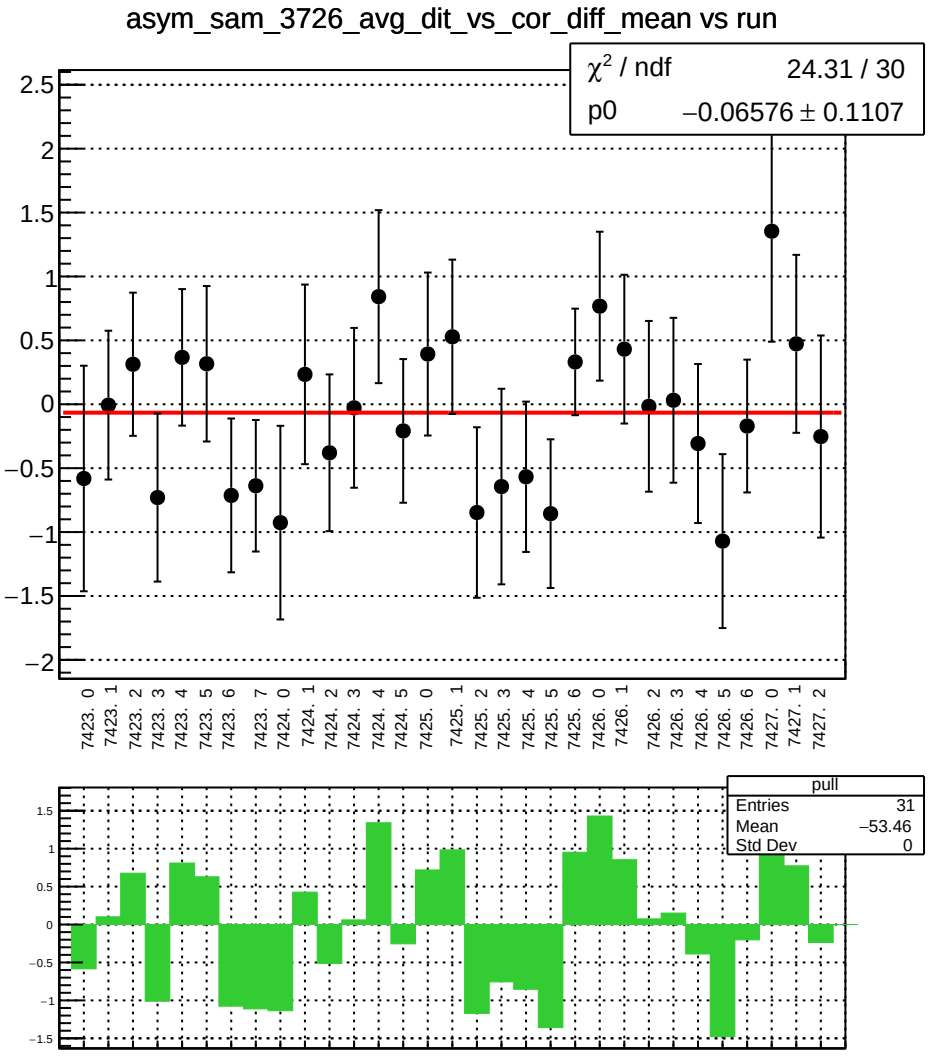

pull1D
Entries 31
Mean 0.02425
Std Dev 1.252
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

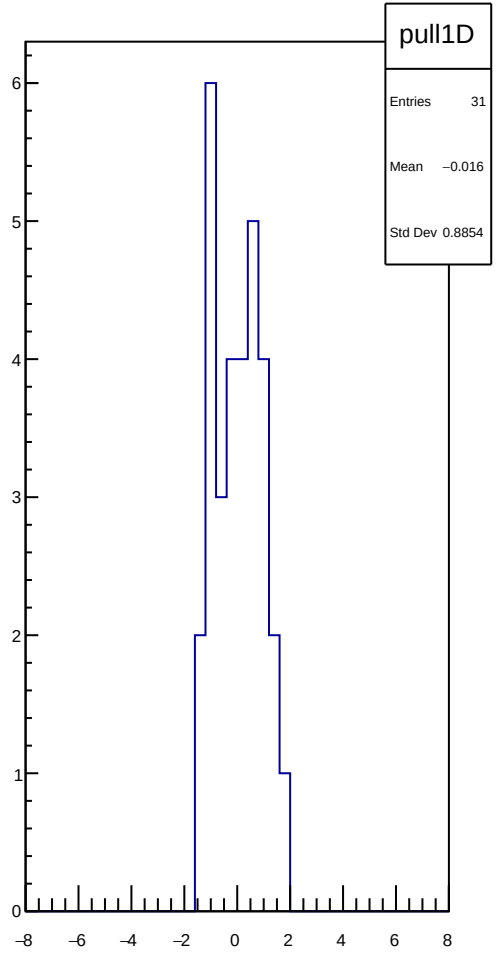

asym_sam_3726_avg_rms vs run
χ² / ndf 2123 / 30
p0 448.2 ± 0.5818
520
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

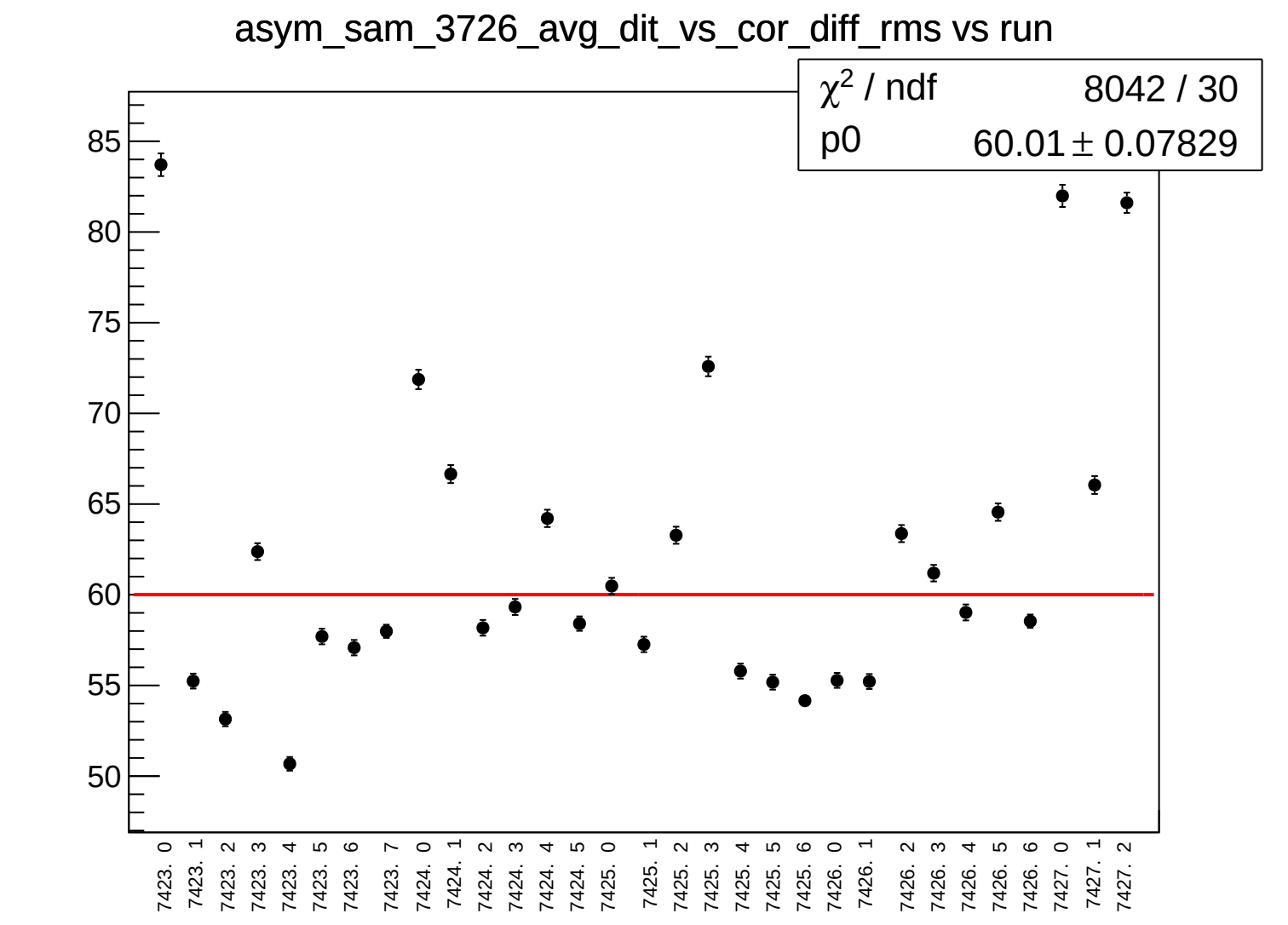

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.7 / 30
p0 6.744e−15 ± 1.666e−14
0.001
0.0005
0
−0.0005
−0.001
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.37
Std Dev 14.91
1.5
1
0.5
0
−0.5
−1
−1.5
−2

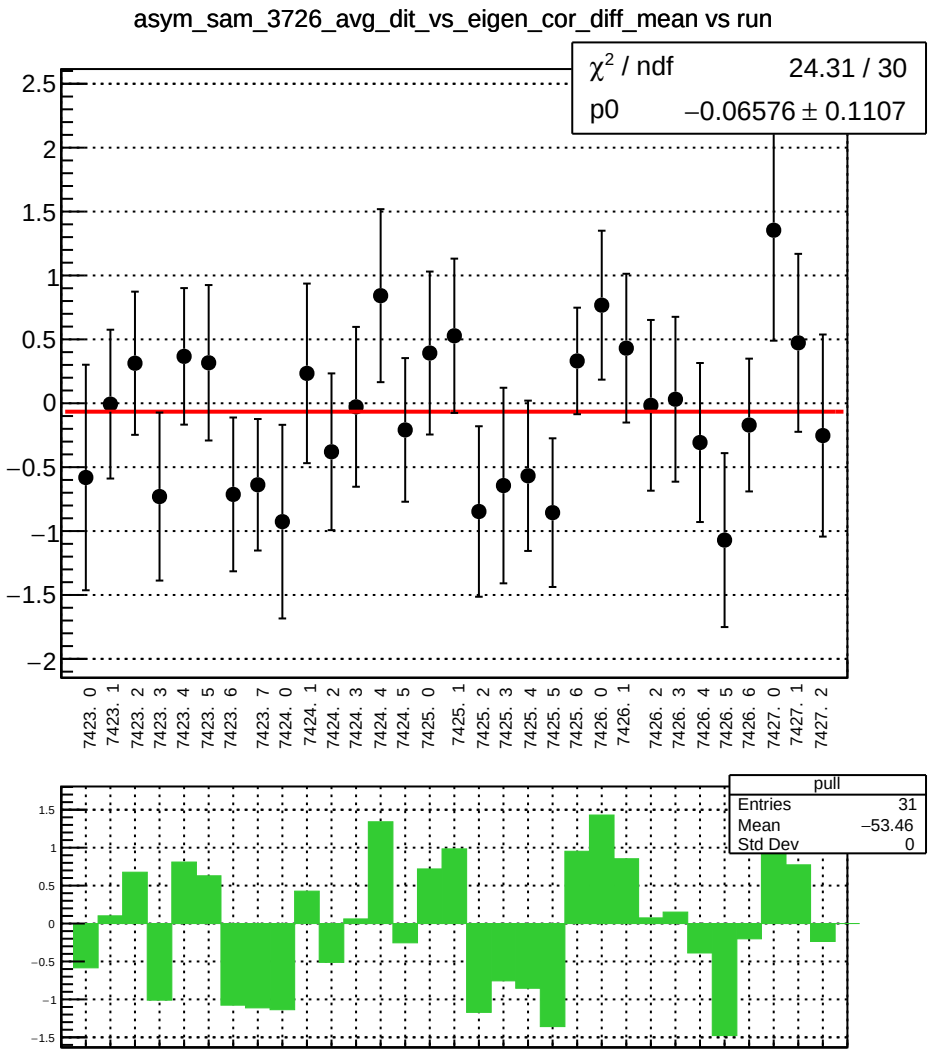

pull1D
Entries 31
Mean 0.06369
Std Dev 0.9084
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

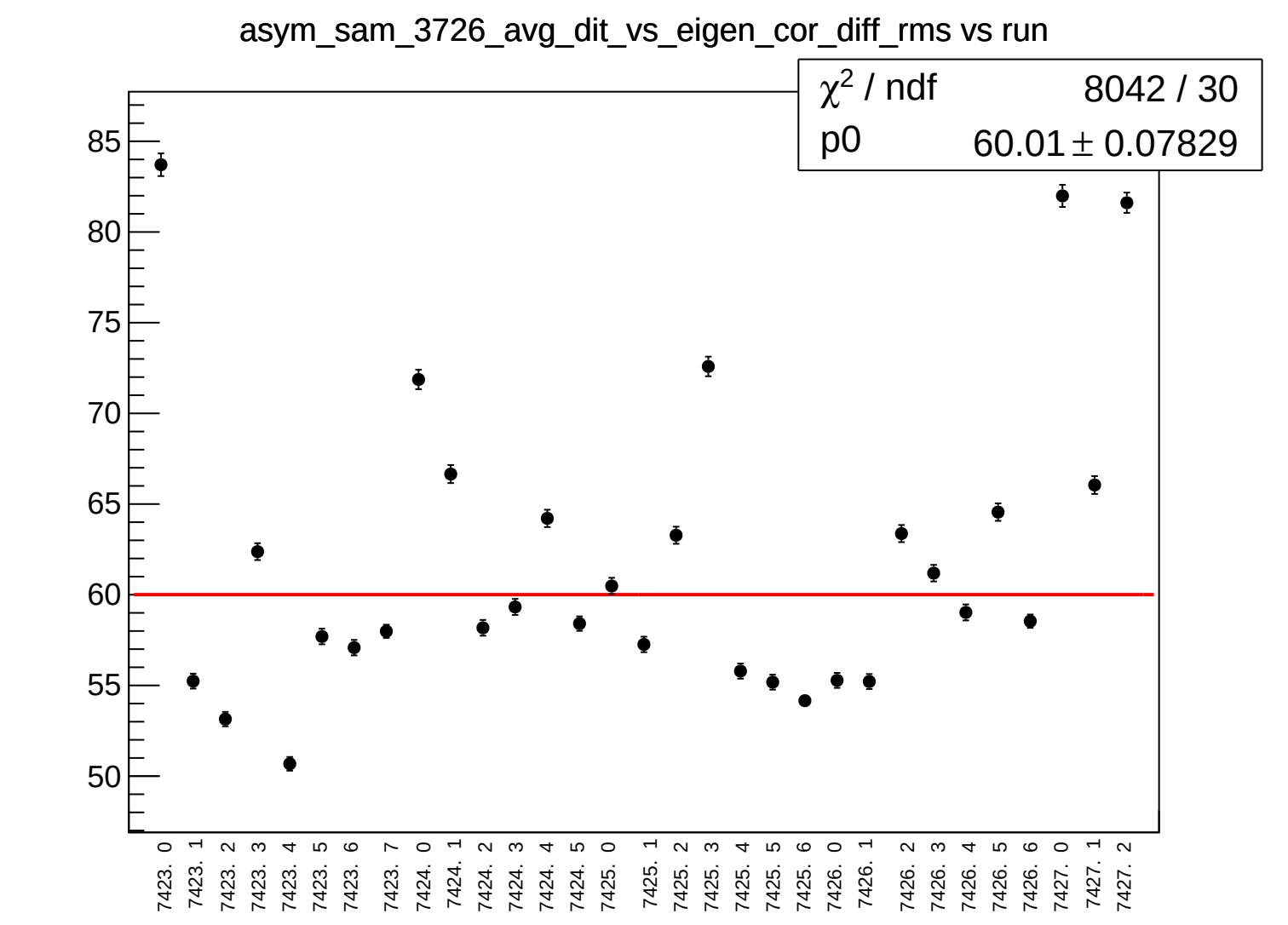

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.446e+05 / 30
p0 2.656e−12 ± 1.178e−14
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

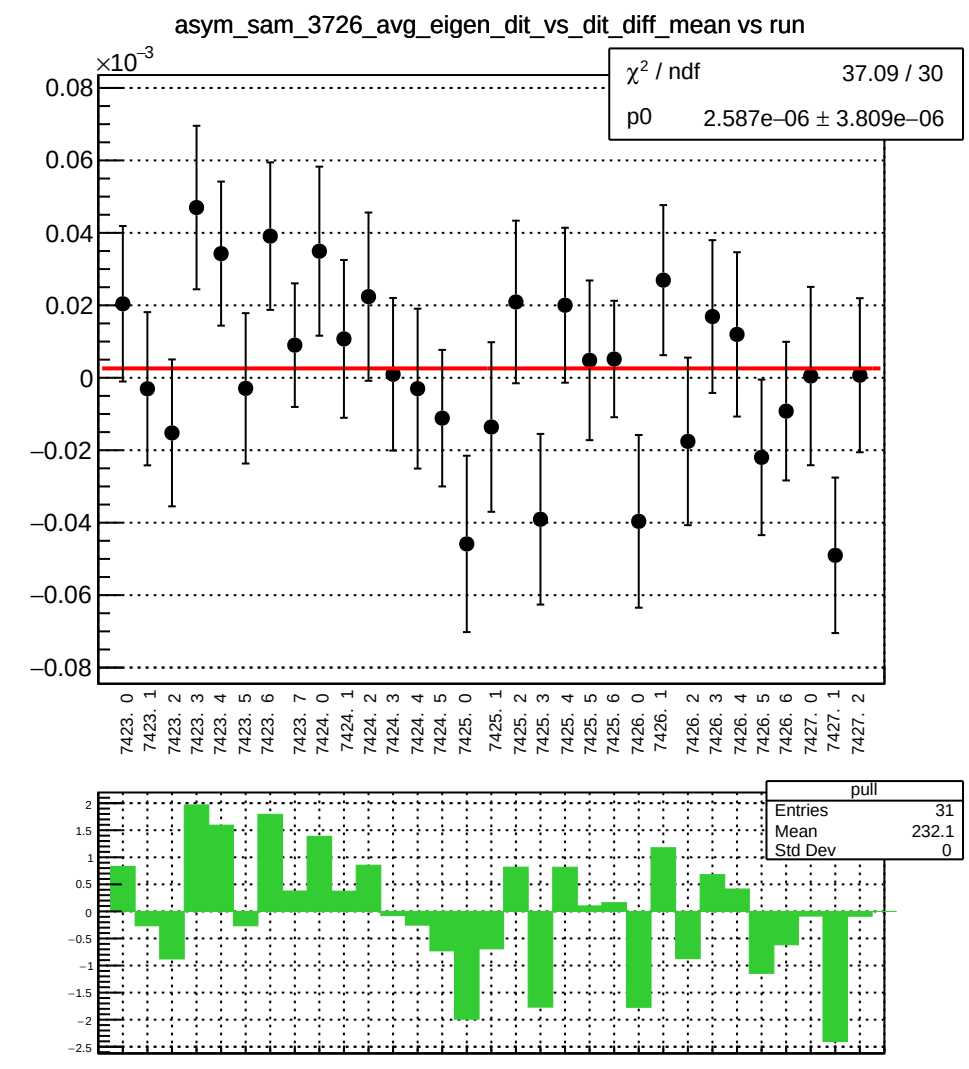

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.31 / 30
p0 −0.06576 ± 0.1107
pull
Entries 31
Mean −53.46
Std Dev 0

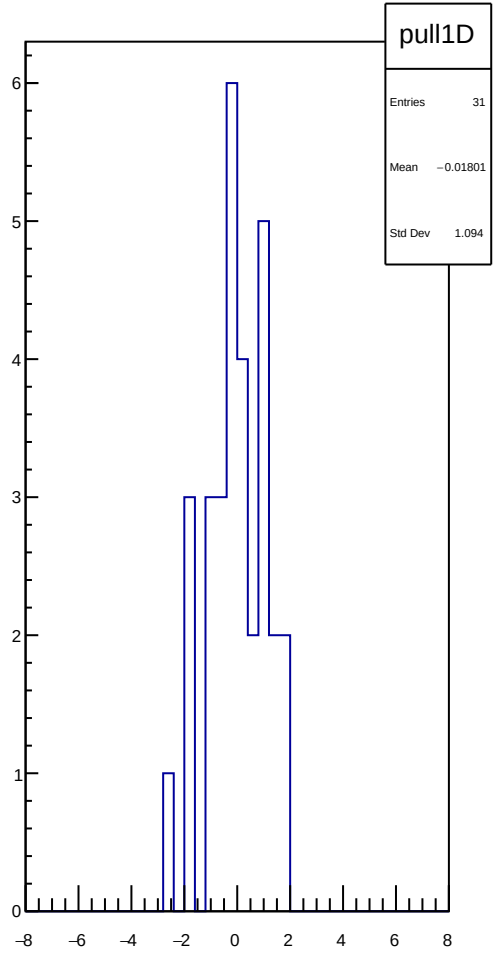

pull1D
Entries 31
Mean −0.016
Std Dev 0.8854

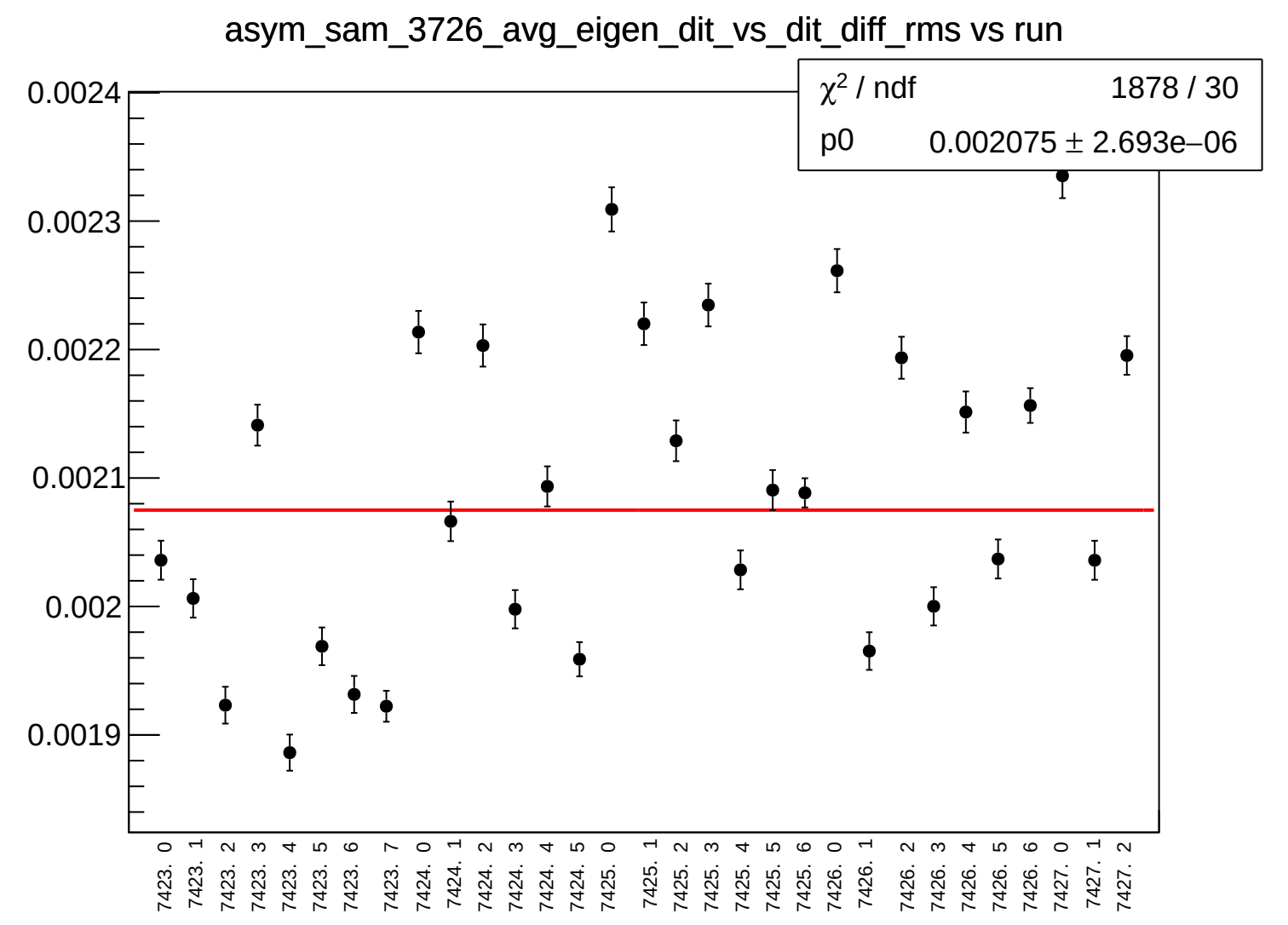

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8042 / 30
p0 60.01 ± 0.07829
85
80
75
70
65
60
55
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

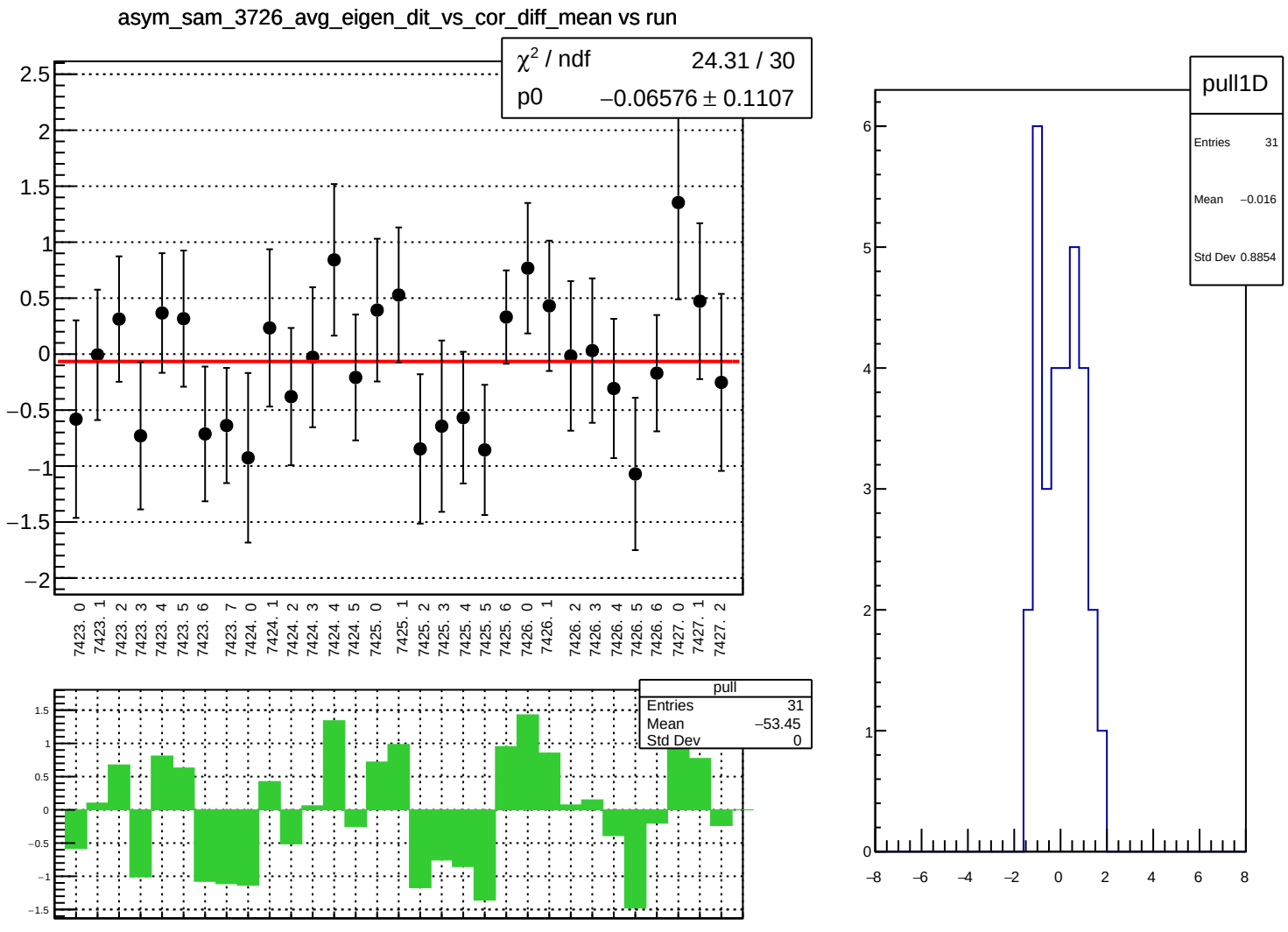

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.31 / 30
p0 −0.06576 ± 0.1107
pull
Entries 31
Mean −53.46
Std Dev 0
pull1D
Entries 31
Mean −0.016
Std Dev 0.8854

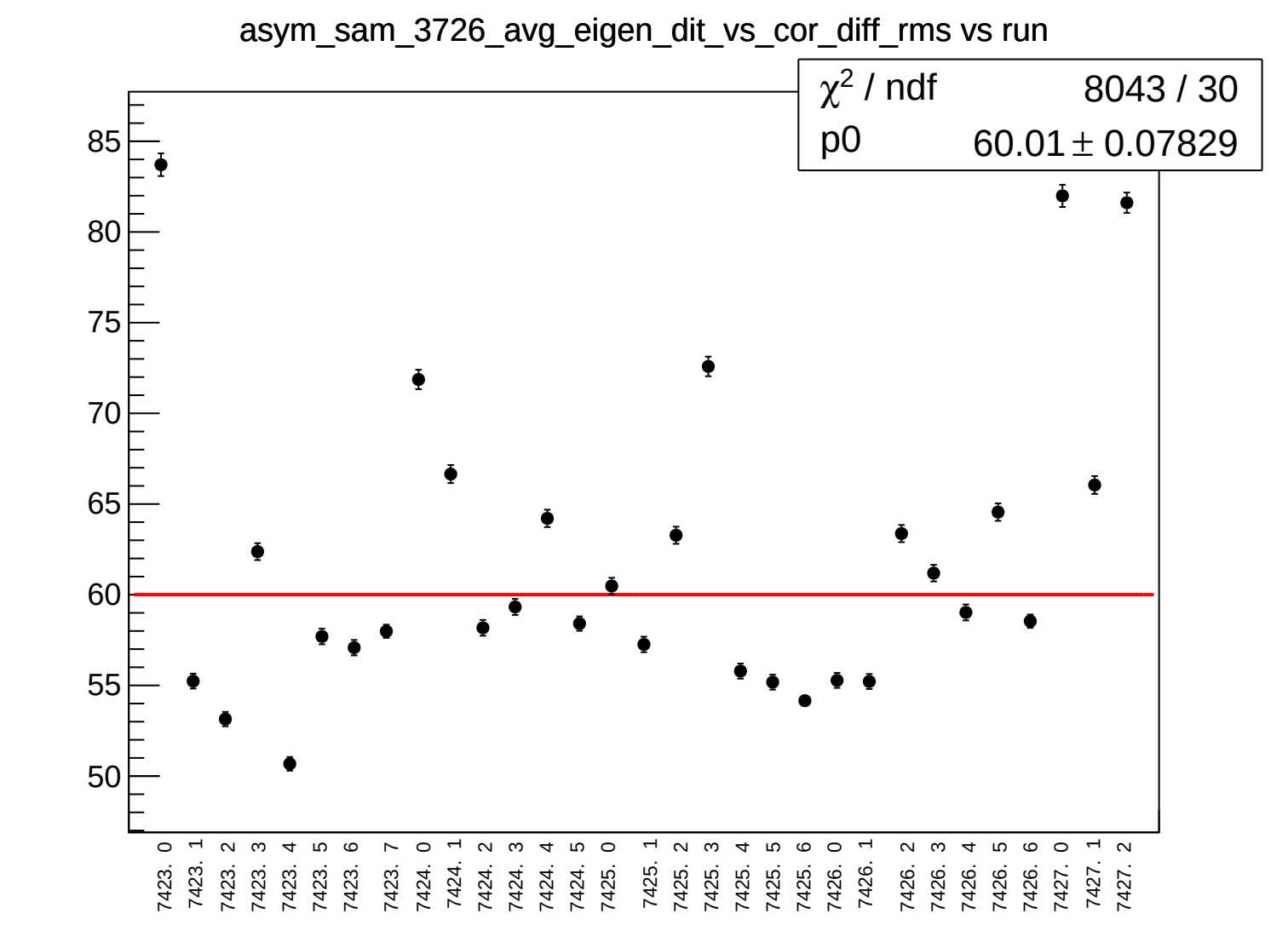

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8042 / 30
p0 60.01 ± 0.07829
85
80
75
70
65
60
55
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

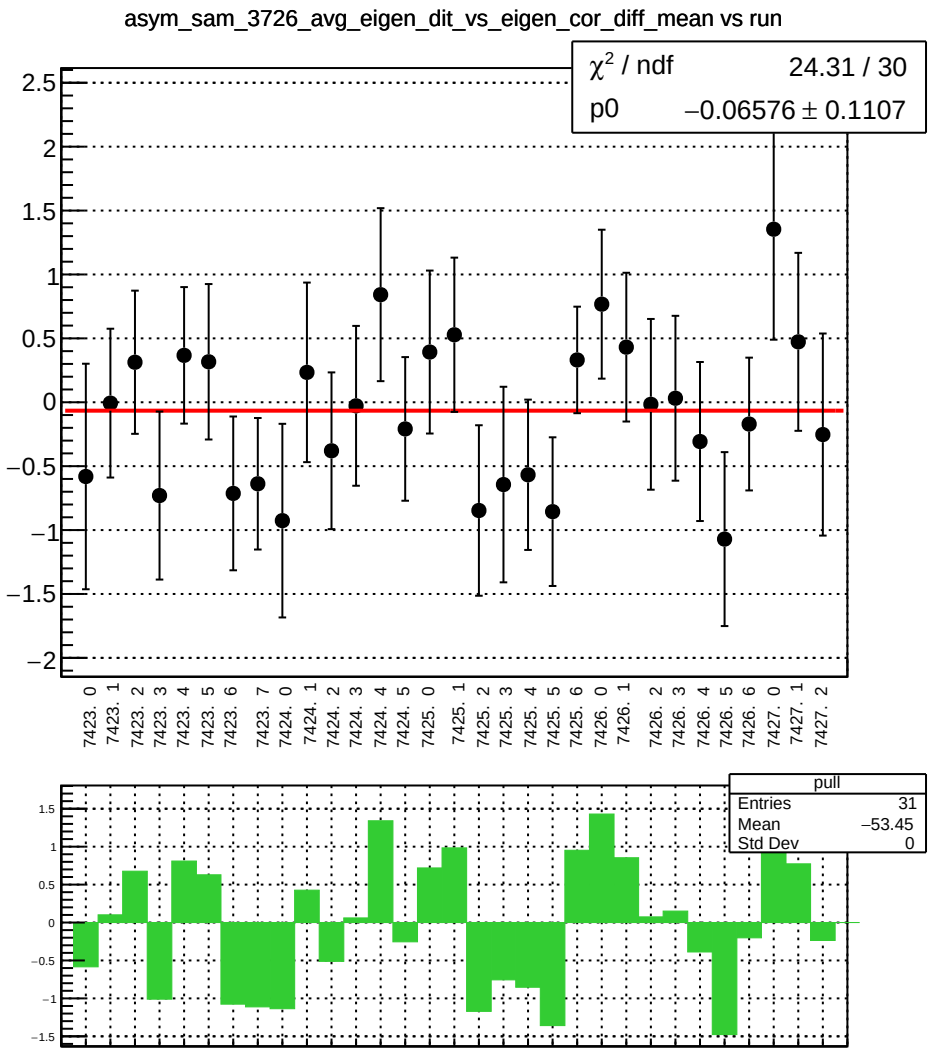

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 37.09 / 30
p0 2.587e−06 ± 3.809e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 232.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

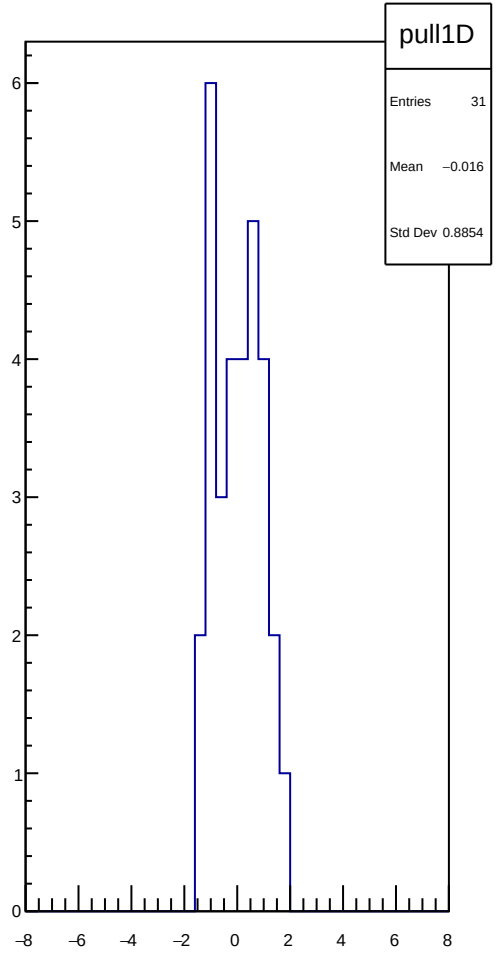

pull1D
Entries 31
Mean −0.01801
Std Dev 1.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

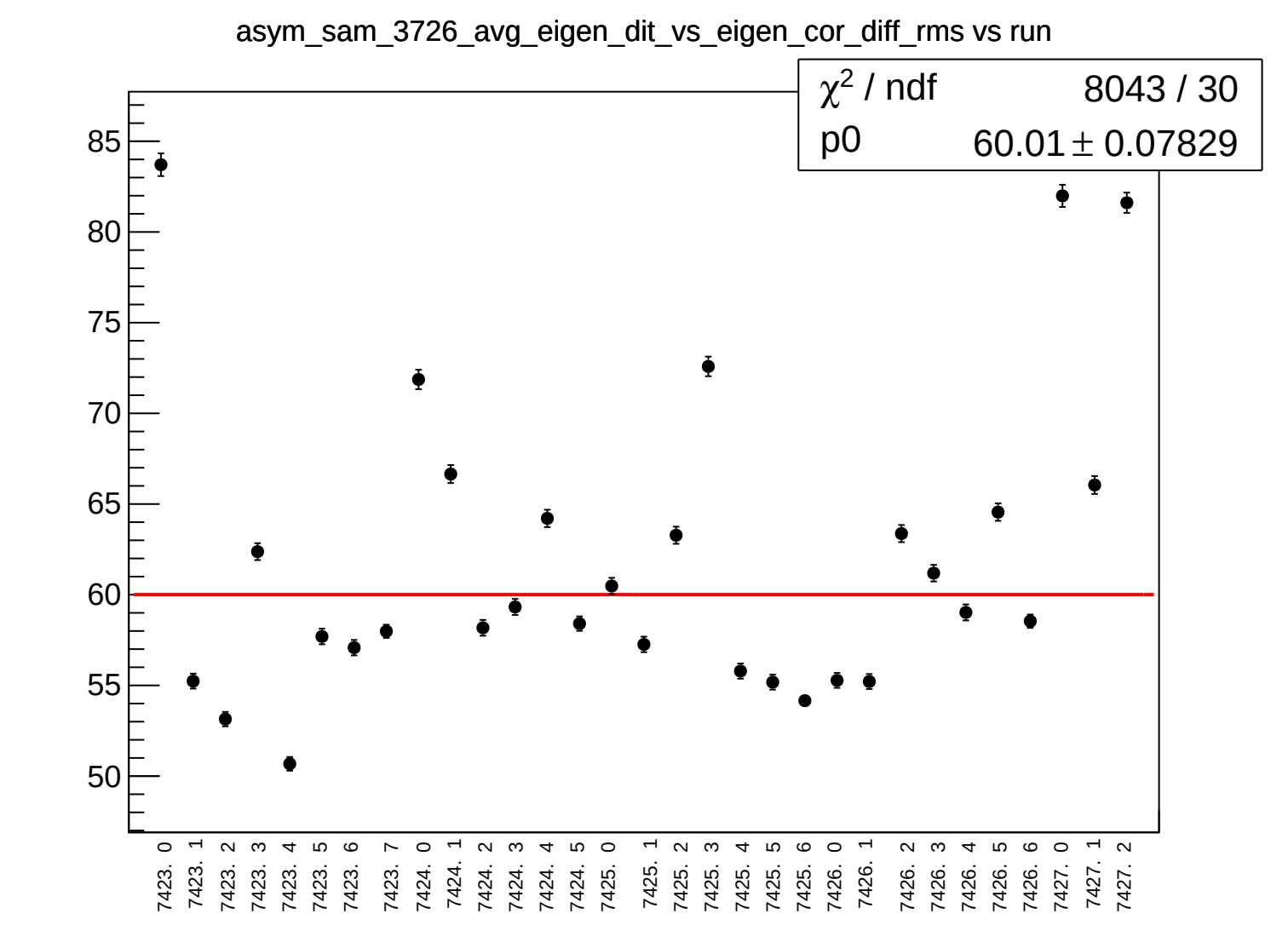

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1878 / 30
p0 0.002075 ± 2.693e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

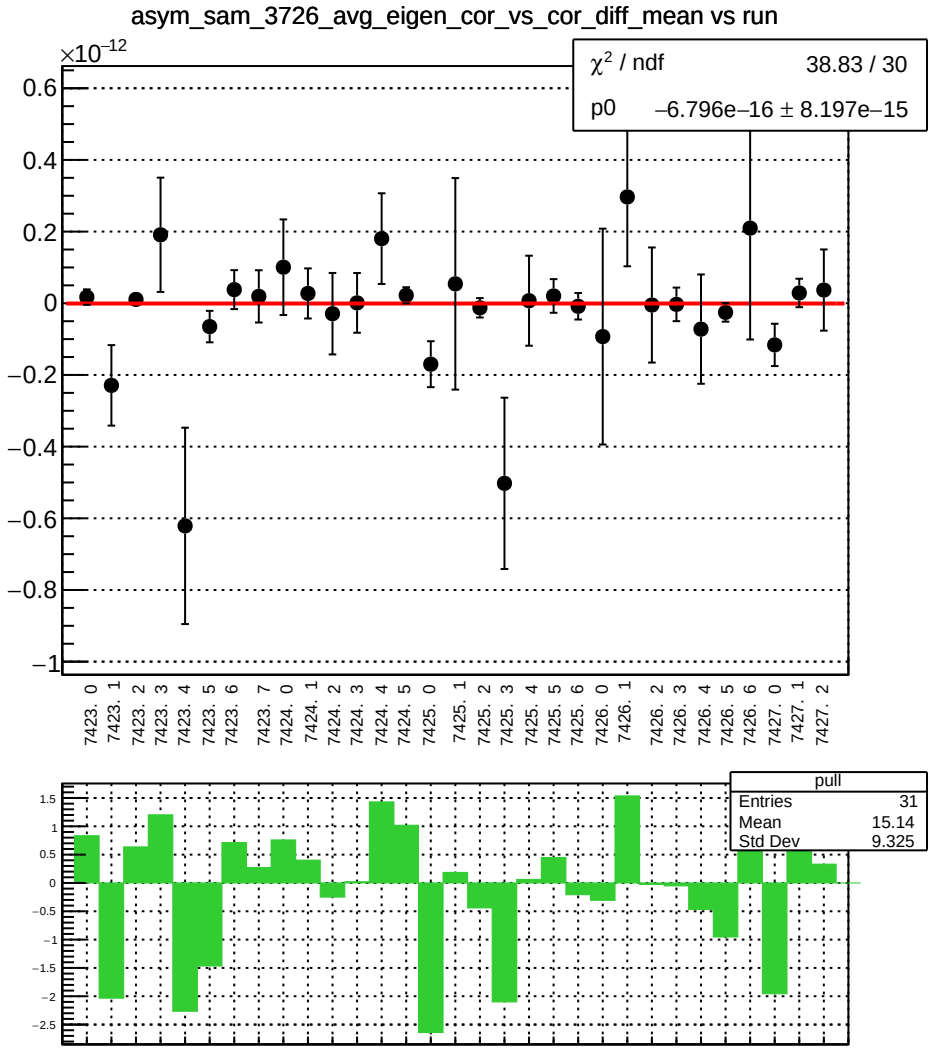

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.31 / 30
p0 −0.06576 ± 0.1107
pull
Entries 31
Mean −53.45
Std Dev 0
pull1D
Entries 31
Mean −0.016
Std Dev 0.8854

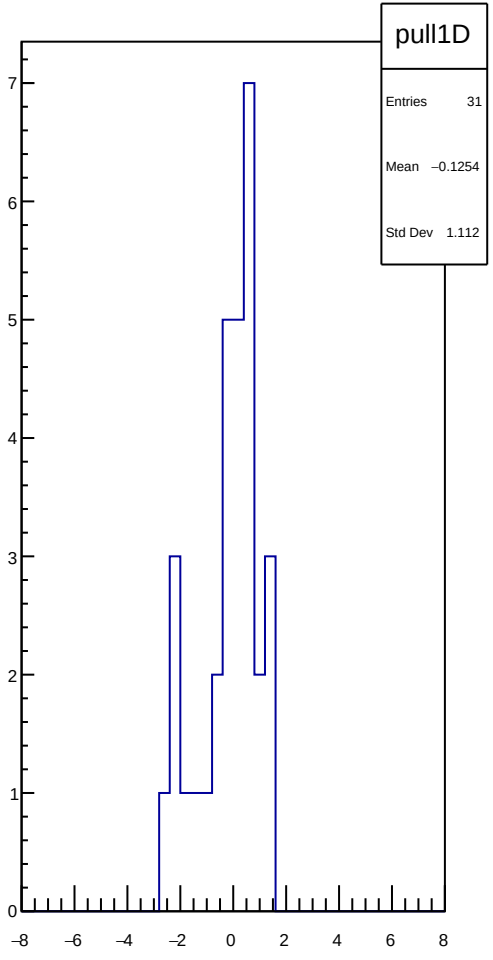

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8043 / 30
p0 60.01 ± 0.07829
85
80
75
70
65
60
55
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

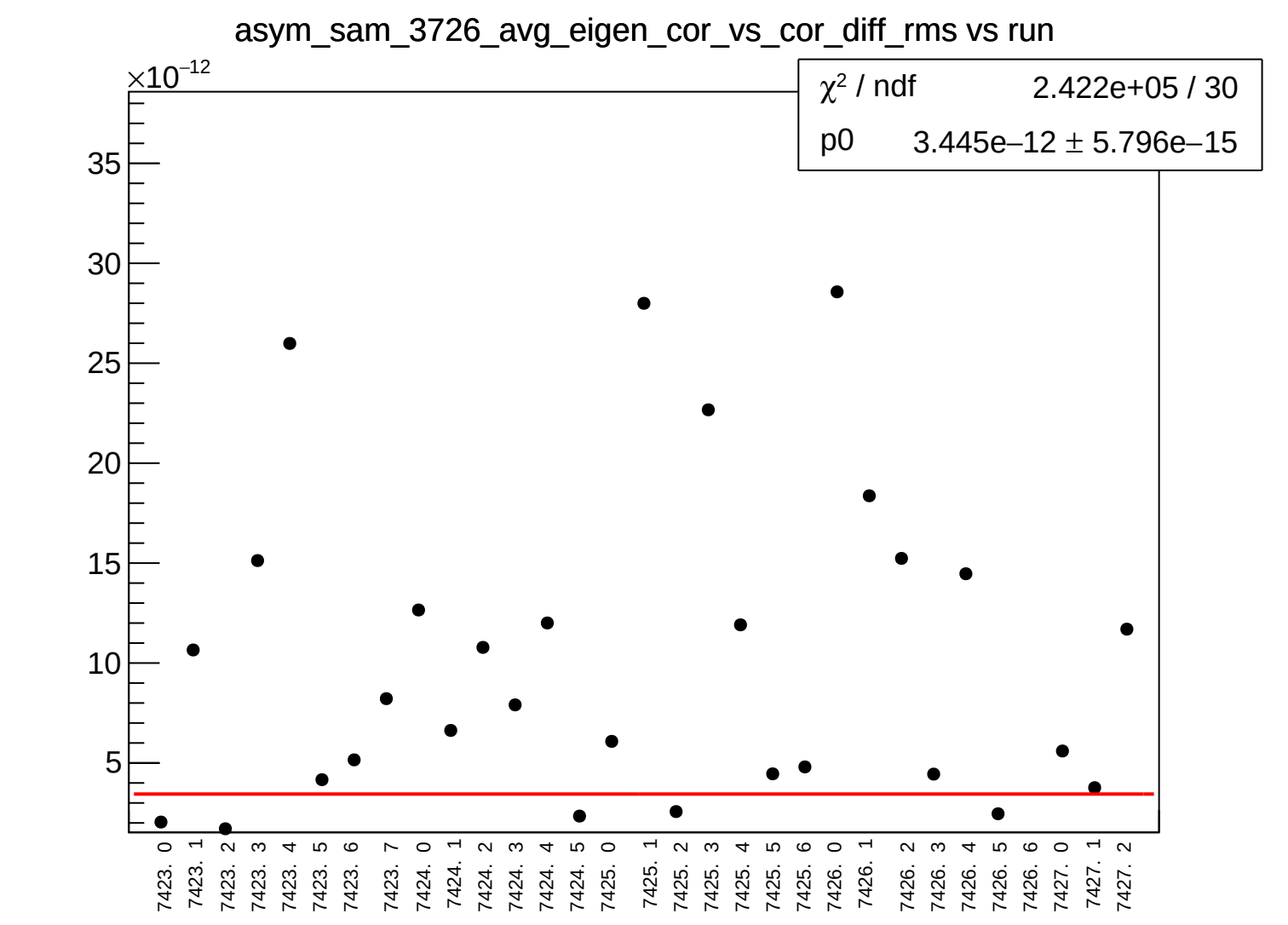

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.31 / 30
p0 −0.06576 ± 0.1107
pull
Entries 31
Mean −53.45
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

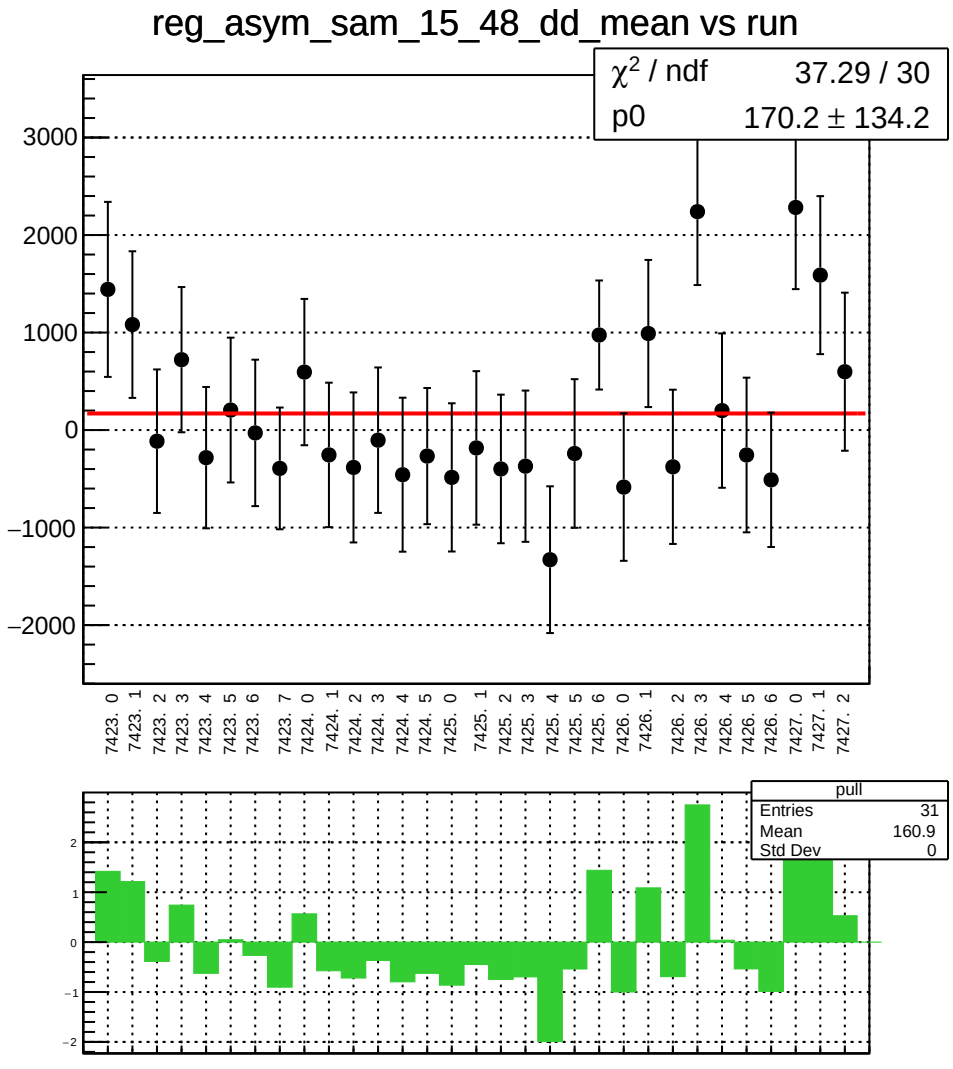

pull1D
Entries 31
Mean −0.016
Std Dev 0.8854

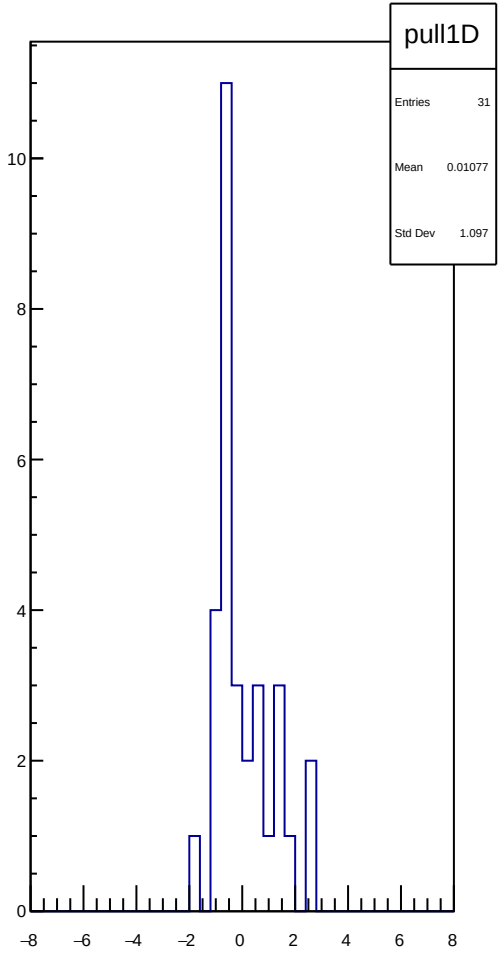

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8043 / 30
p0 60.01 ± 0.07829
85
80
75
70
65
60
55
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

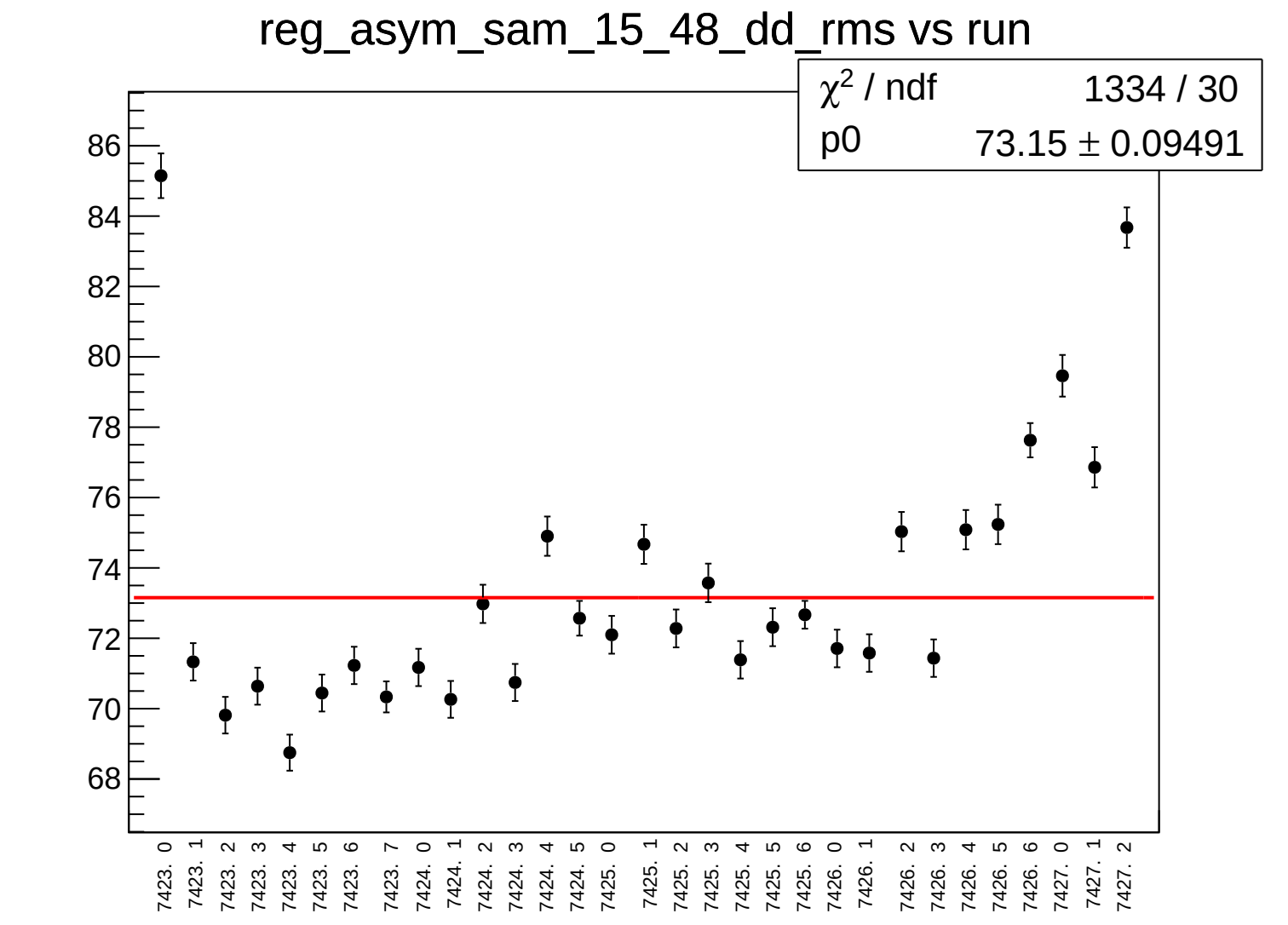

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.83 / 30
p0 −6.796e−16 ± 8.197e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.14
Std Dev 9.325
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

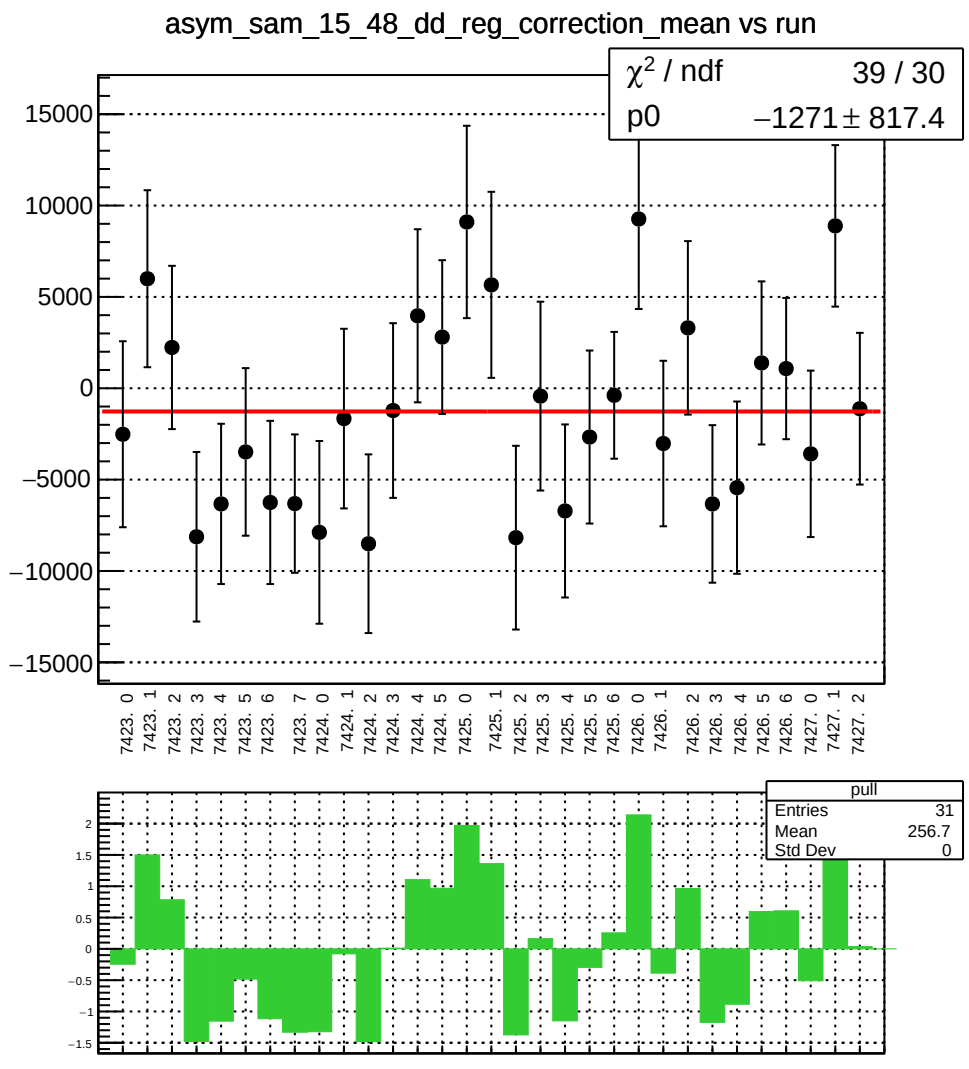

pull1D
Entries 31
Mean −0.1254
Std Dev 1.112
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

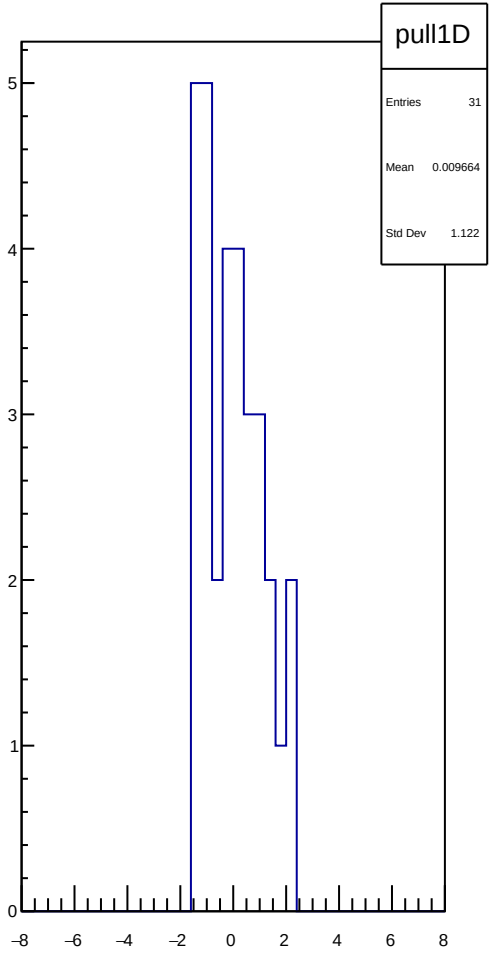

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.422e+05 / 30
p0 3.445e−12 ± 5.796e−15
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

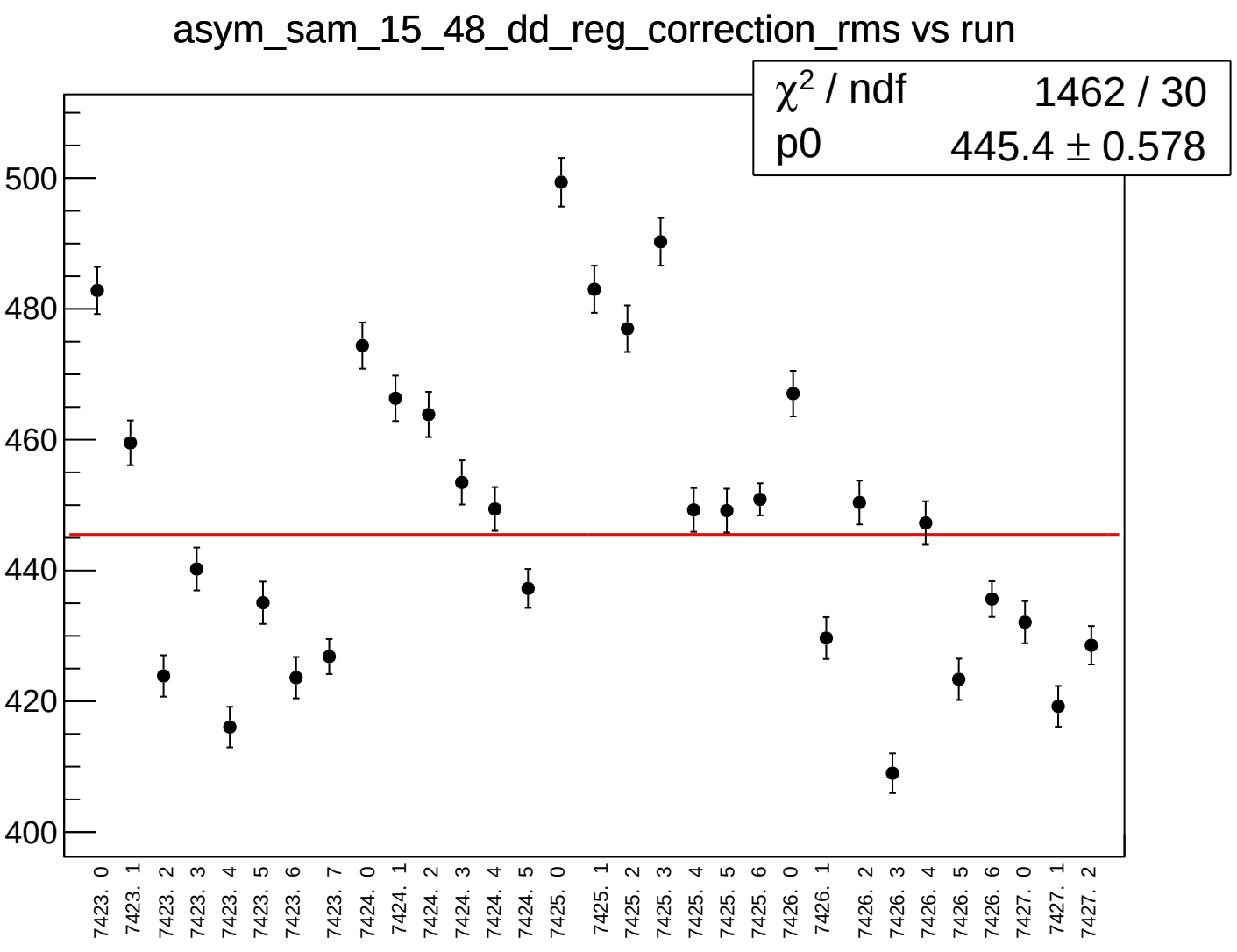

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 37.29 / 30
p0 170.2 ± 134.2
3000
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 160.9
Std Dev 0
2
1
0
−1
−2

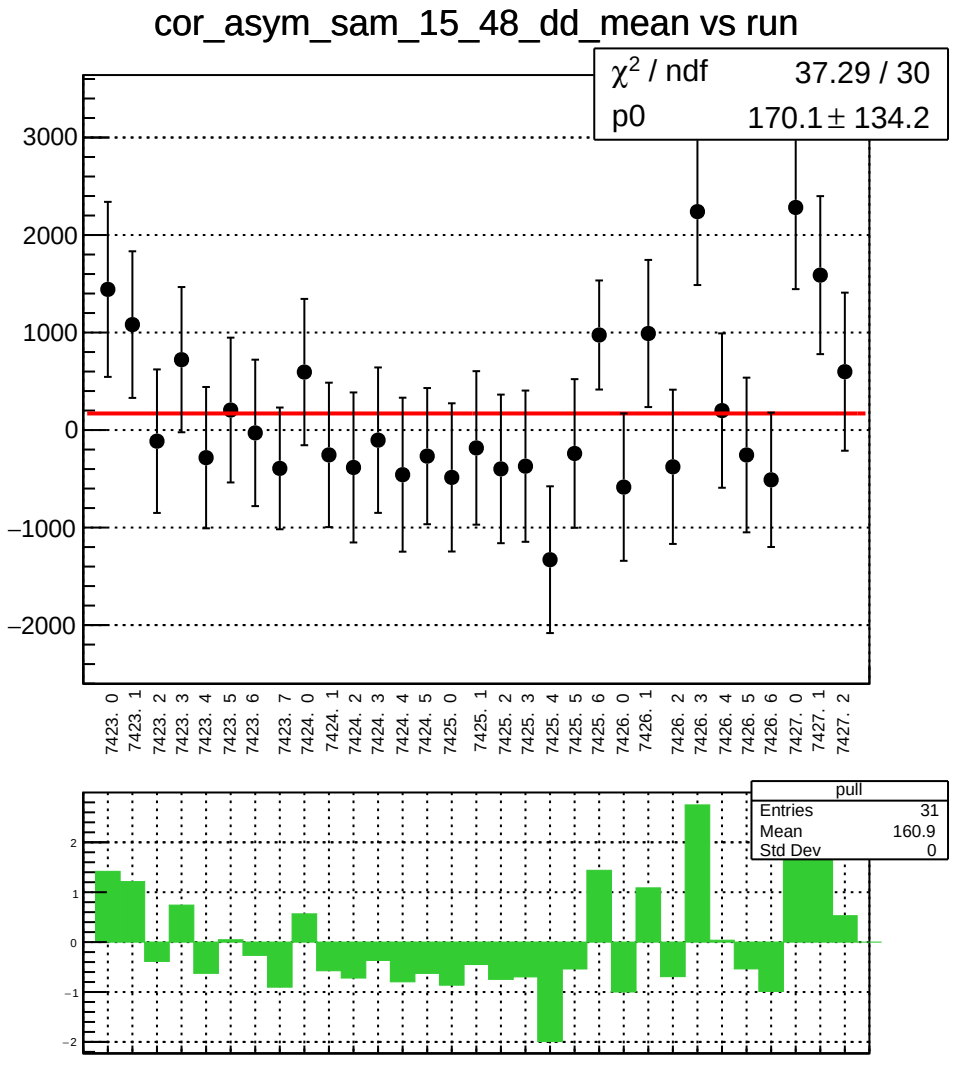

pull1D
Entries 31
Mean 0.01077
Std Dev 1.097
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

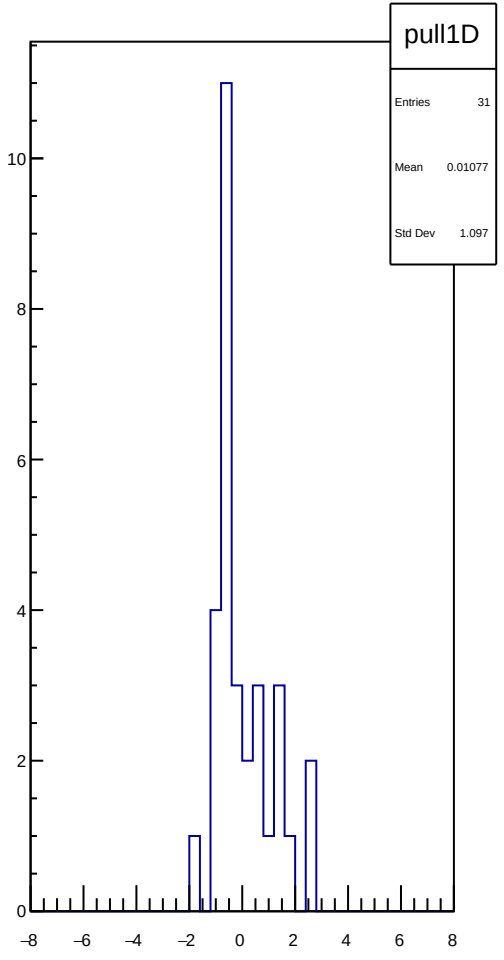

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1334 / 30
p0 73.15 ± 0.09491
86
84
82
80
78
76
74
72
70
68
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

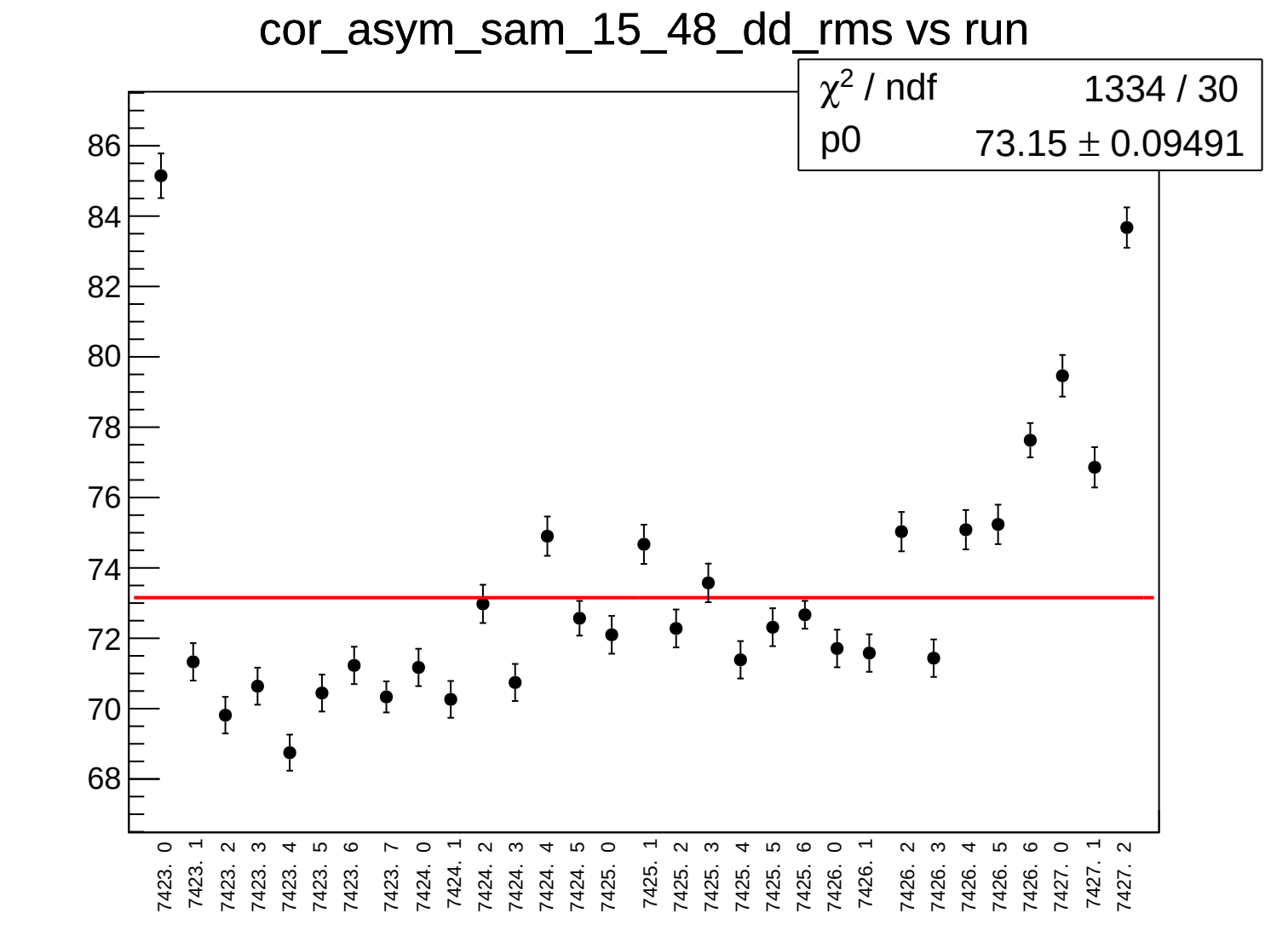

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 39 / 30
p0 −1271 ± 817.4
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 256.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

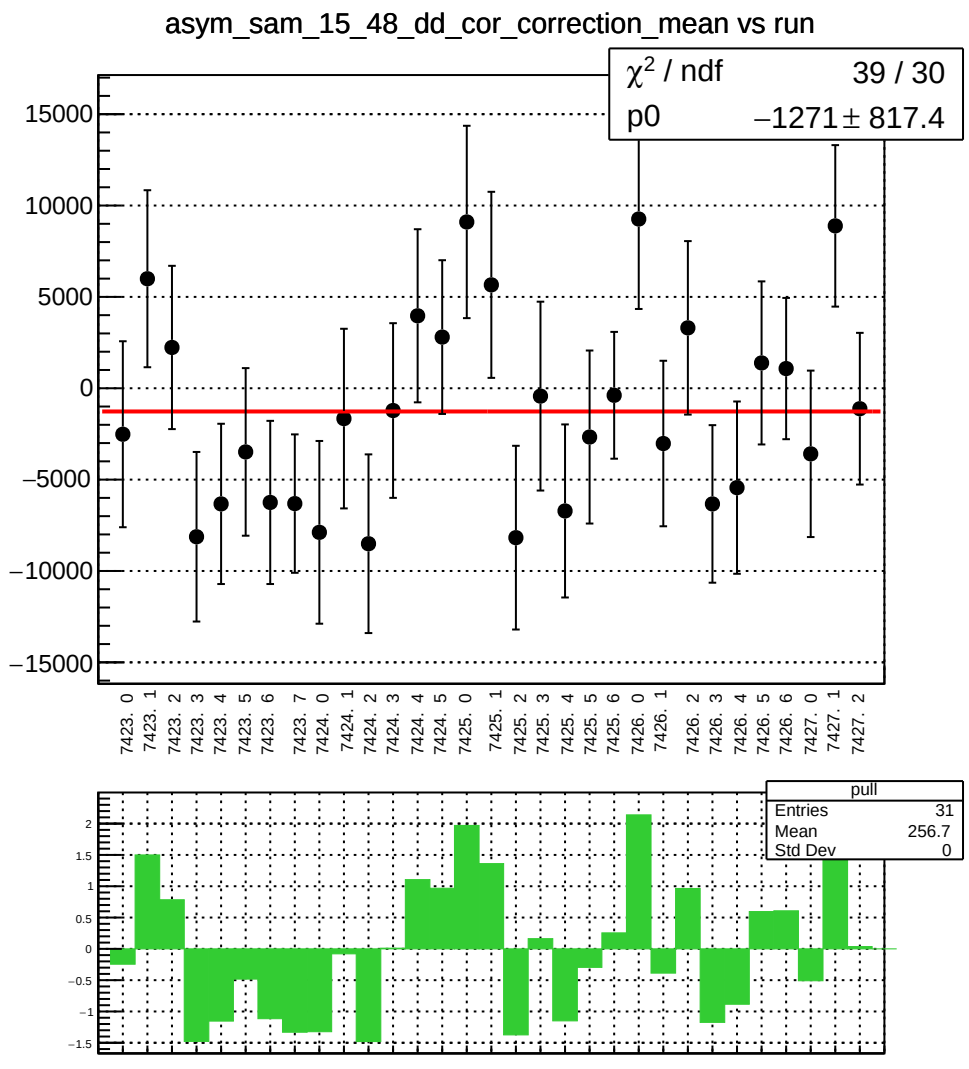

pull1D
Entries 31
Mean 0.009664
Std Dev 1.122
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

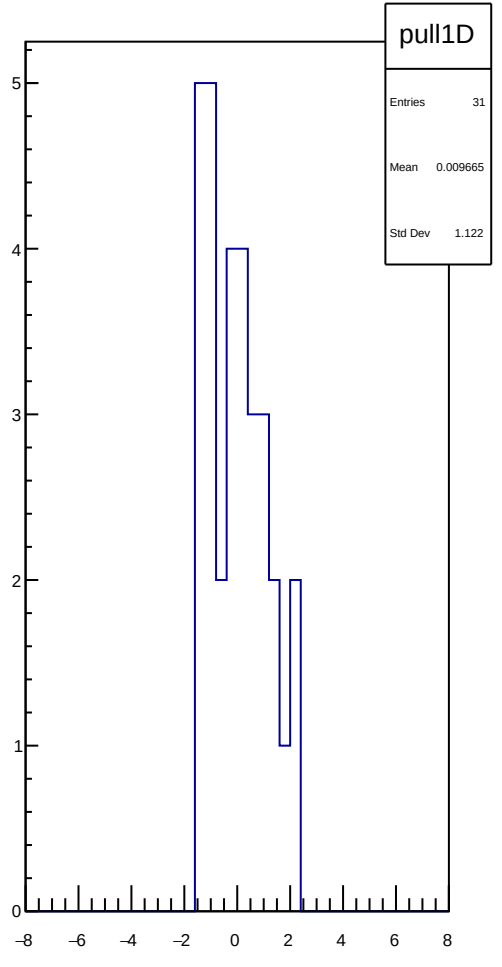

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1462 / 30
p0 445.4 ± 0.578
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

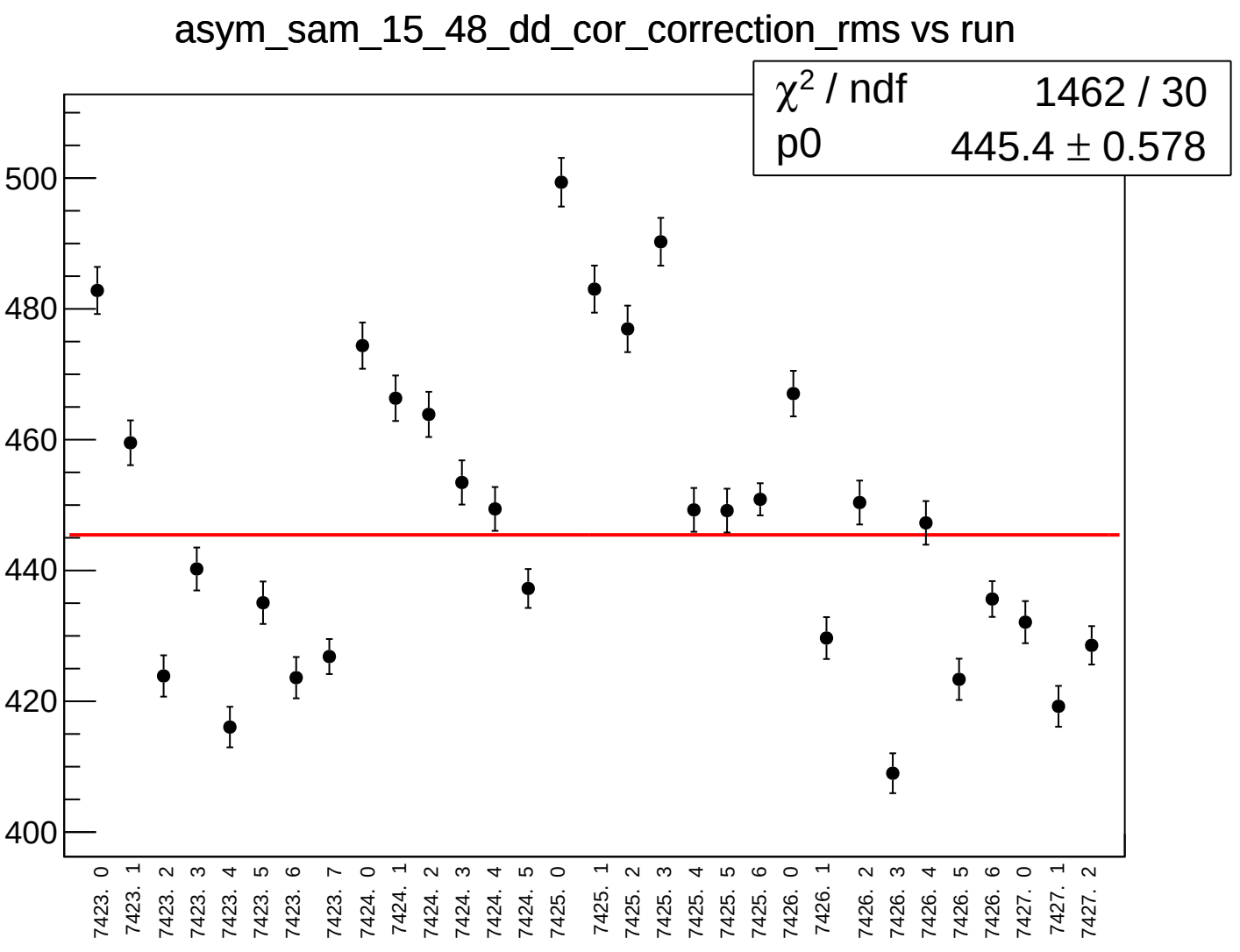

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 37.29 / 30
p0 170.1 ± 134.2
3000
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 160.9
Std Dev 0
2
1
0
−1
−2

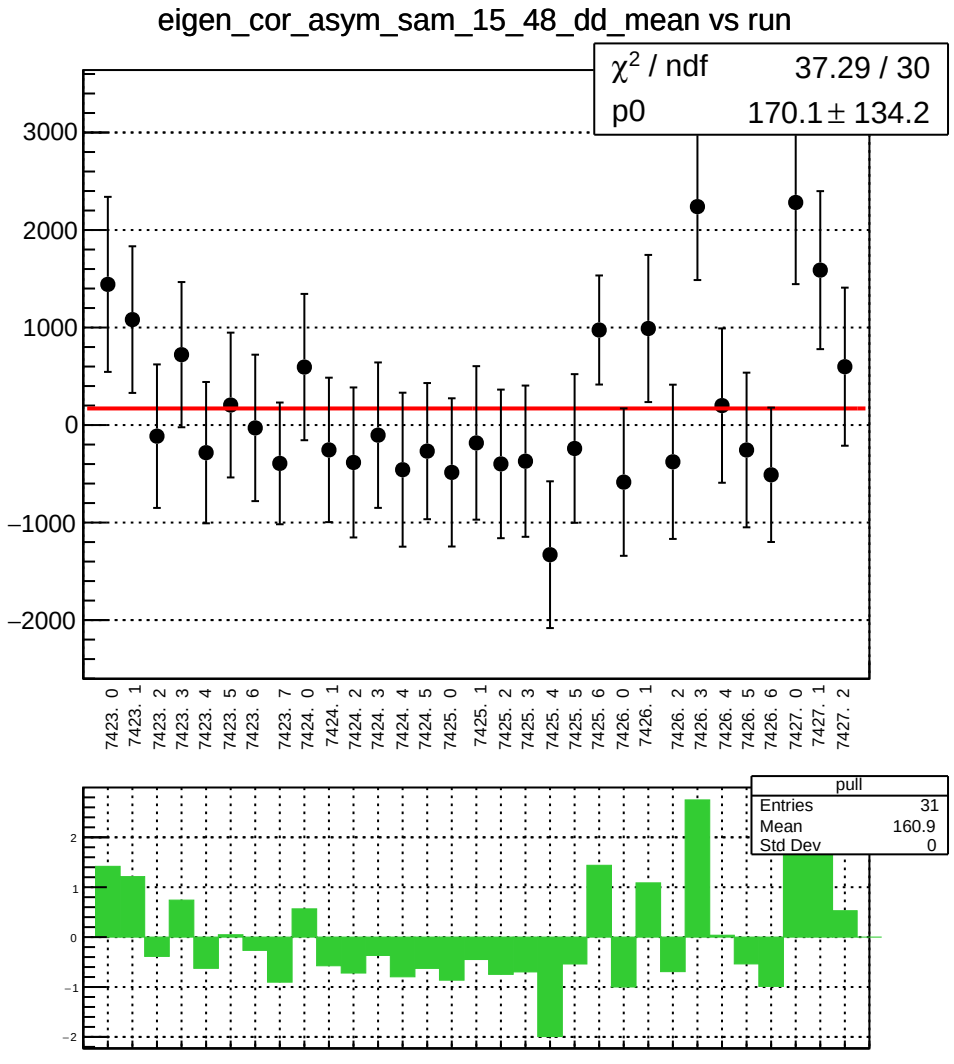

pull1D
Entries 31
Mean 0.01077
Std Dev 1.097
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

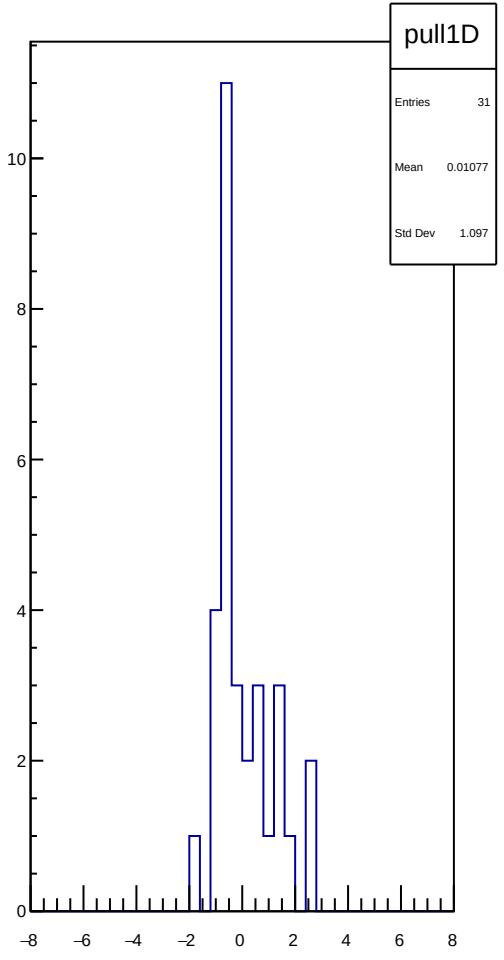

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1334 / 30
p0 73.15 ± 0.09491
86
84
82
80
78
76
74
72
70
68
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

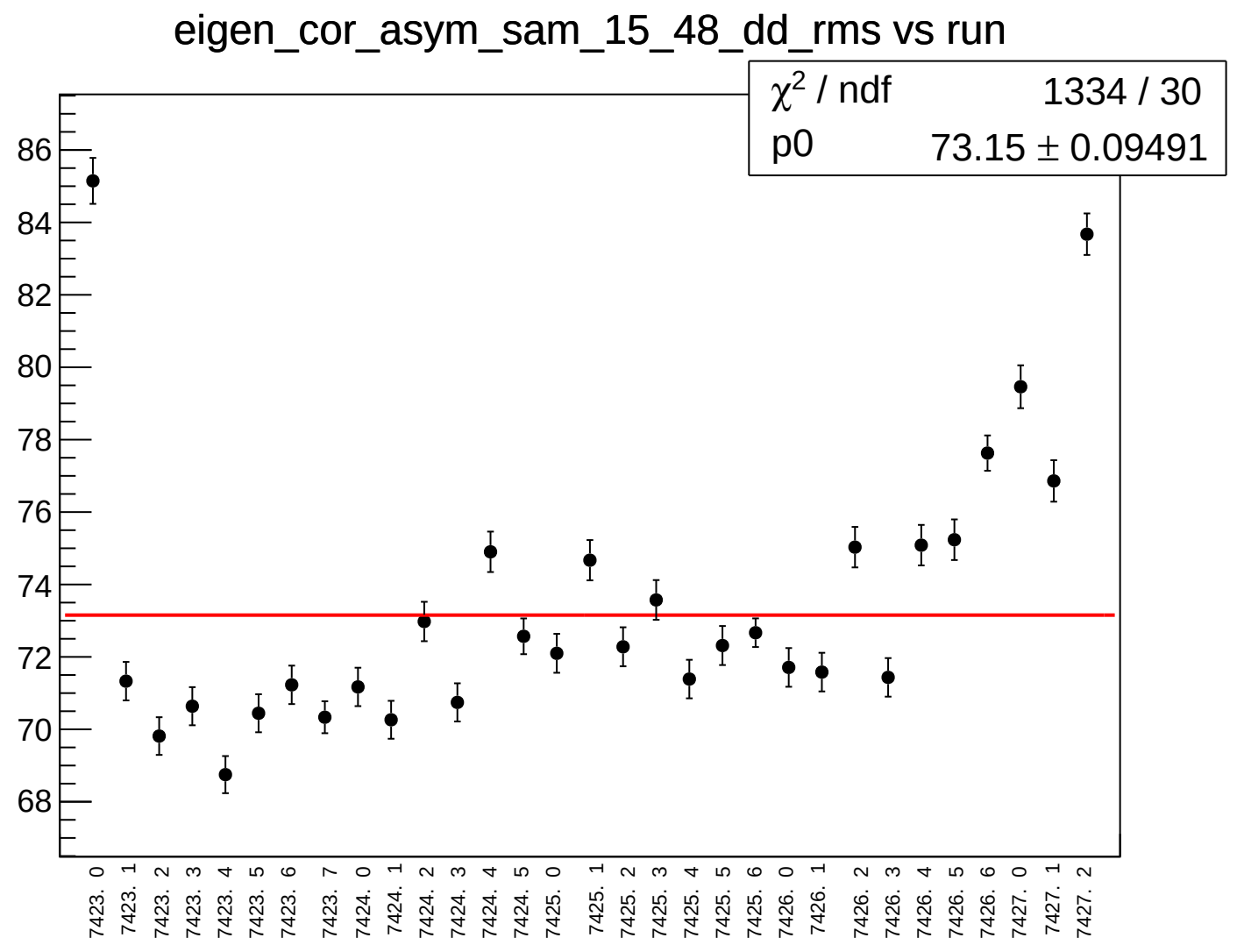

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 39 / 30
p0 −1271 ± 817.4
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 256.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

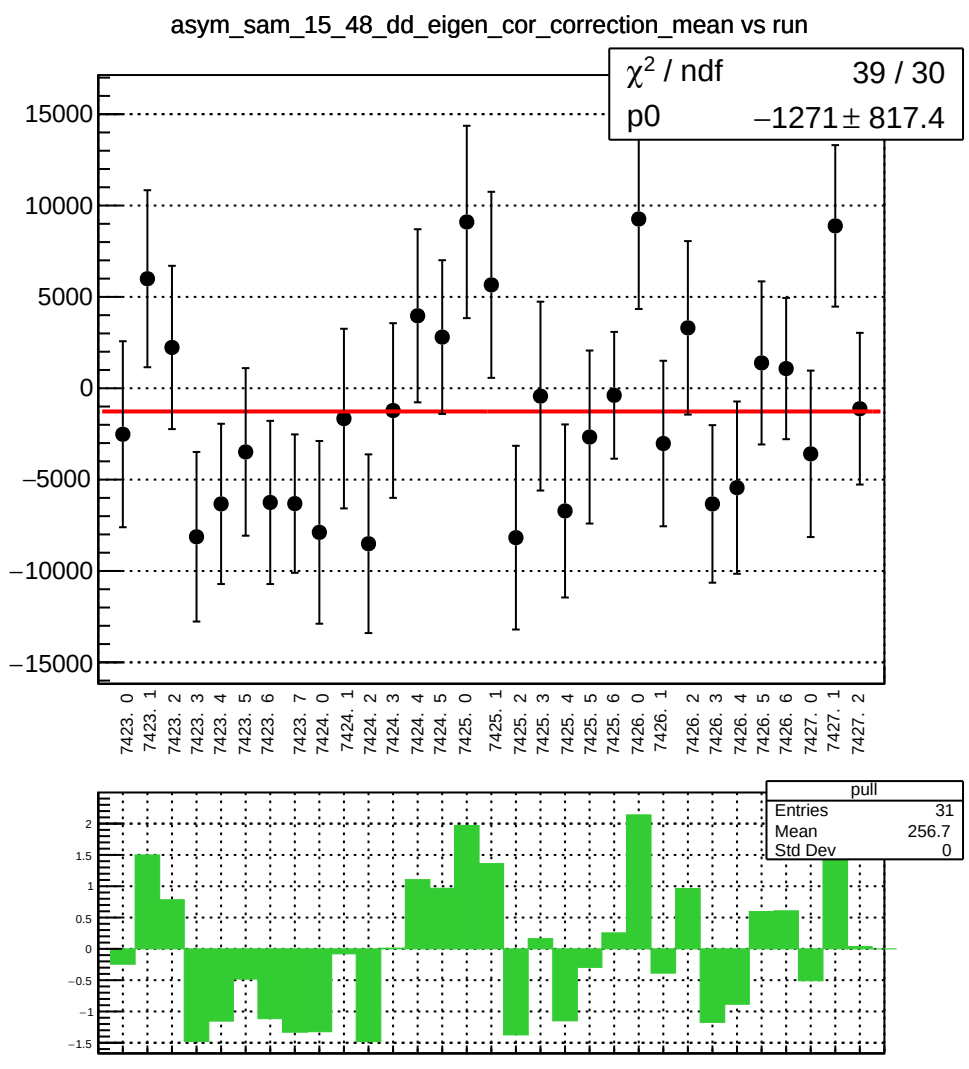

pull1D
Entries 31
Mean 0.009665
Std Dev 1.122
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

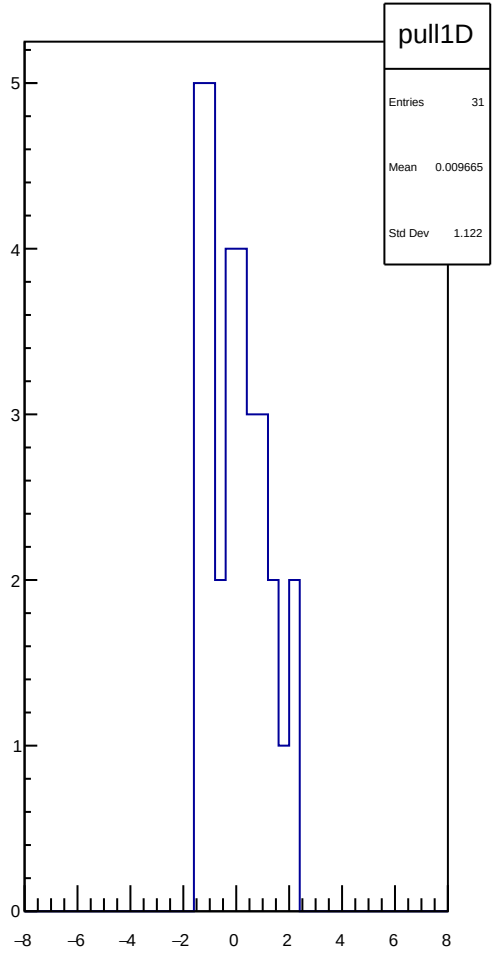

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1462 / 30
p0 445.4 ± 0.578
500
480
460
440
420
400
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

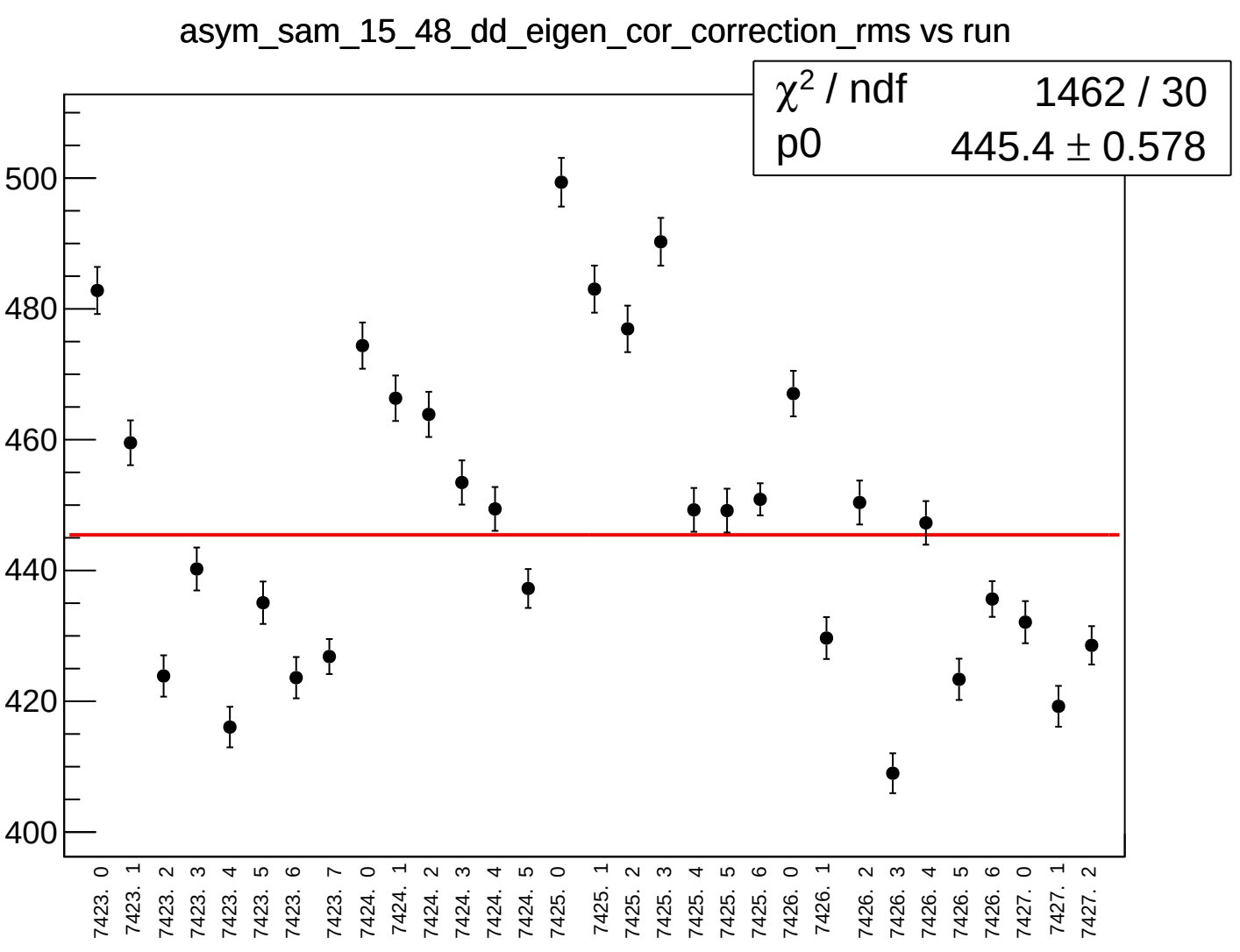

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 37.29 / 30
p0 170.1 ± 134.2
3000
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 160.9
Std Dev 0
2
1
0
−1
−2

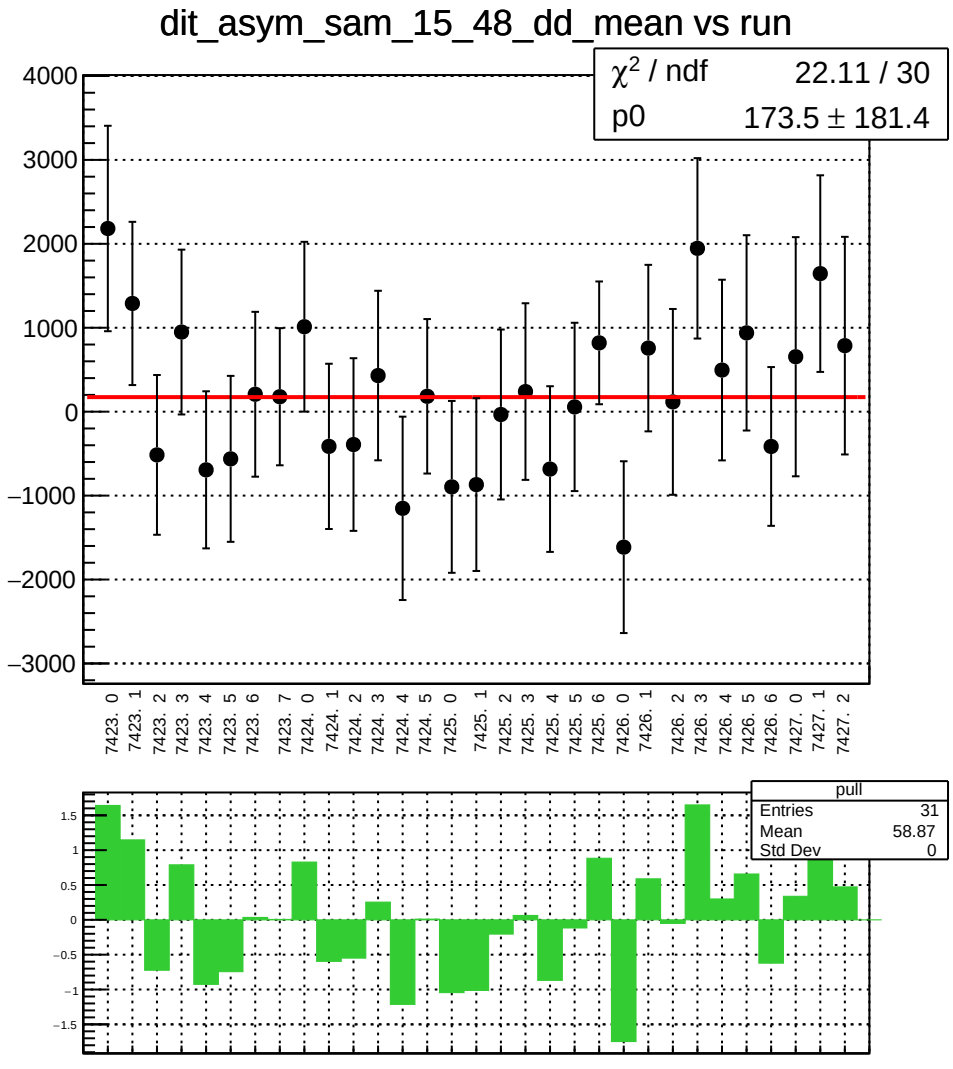

pull1D
Entries 31
Mean 0.01077
Std Dev 1.097
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

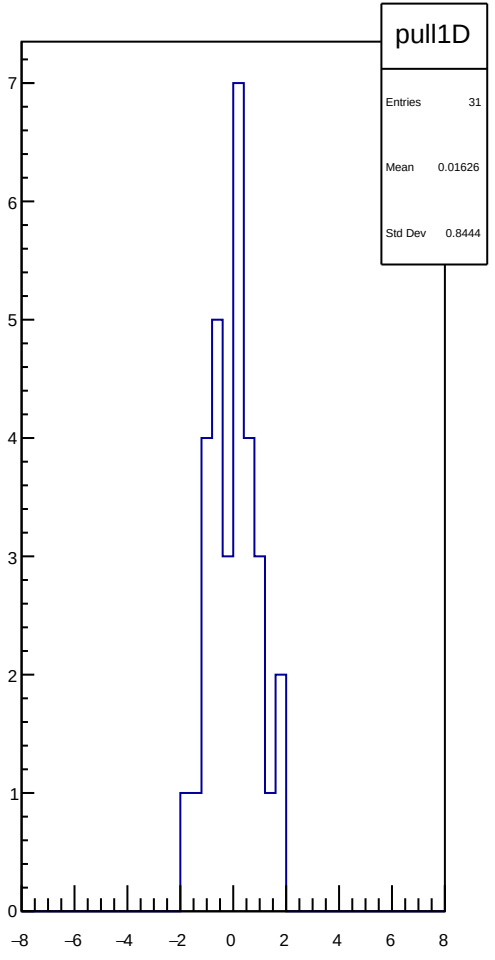

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1334 / 30
p0 73.15 ± 0.09491
86
84
82
80
78
76
74
72
70
68
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

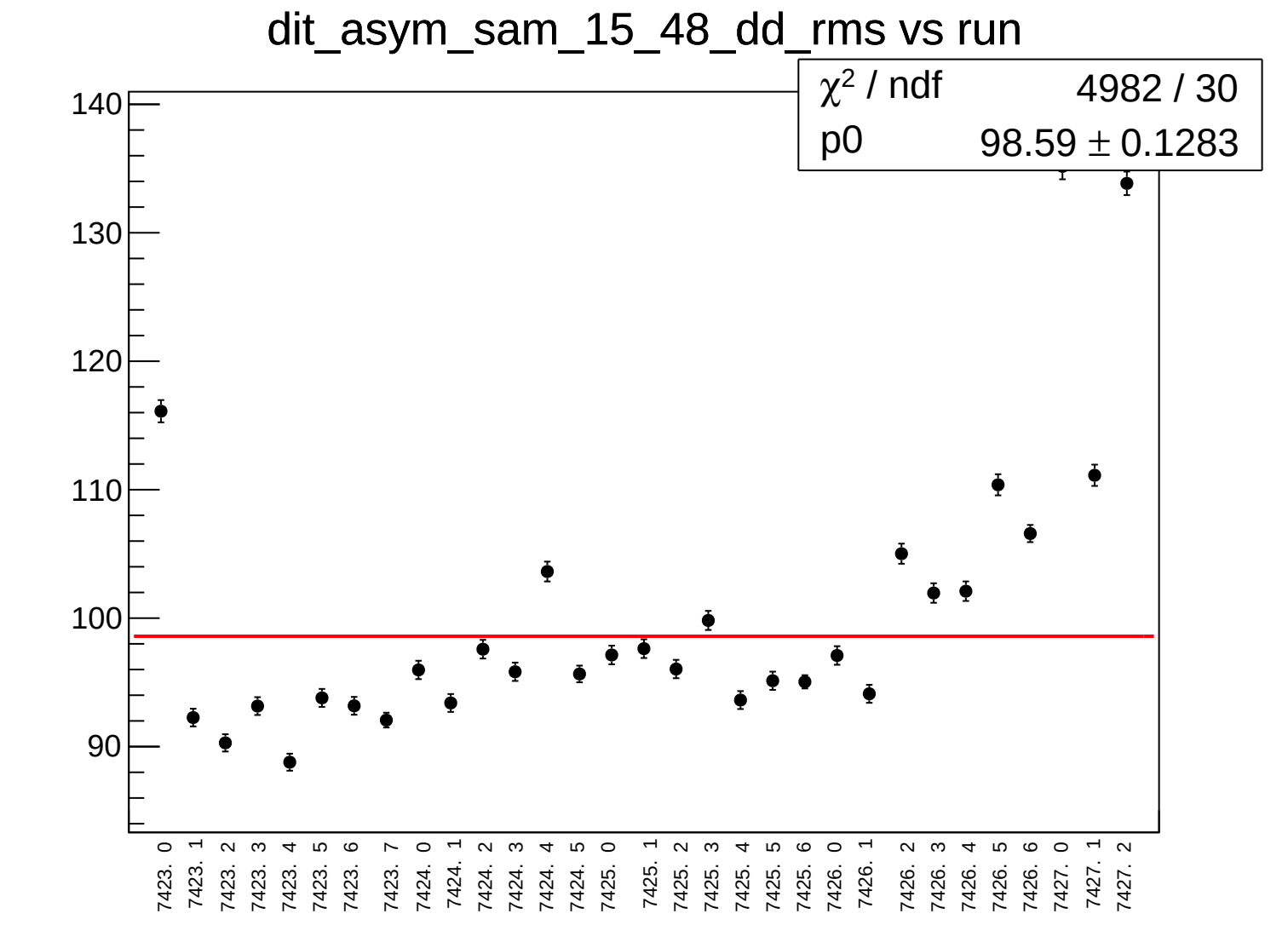

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 39 / 30
p0 −1271 ± 817.4
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 256.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

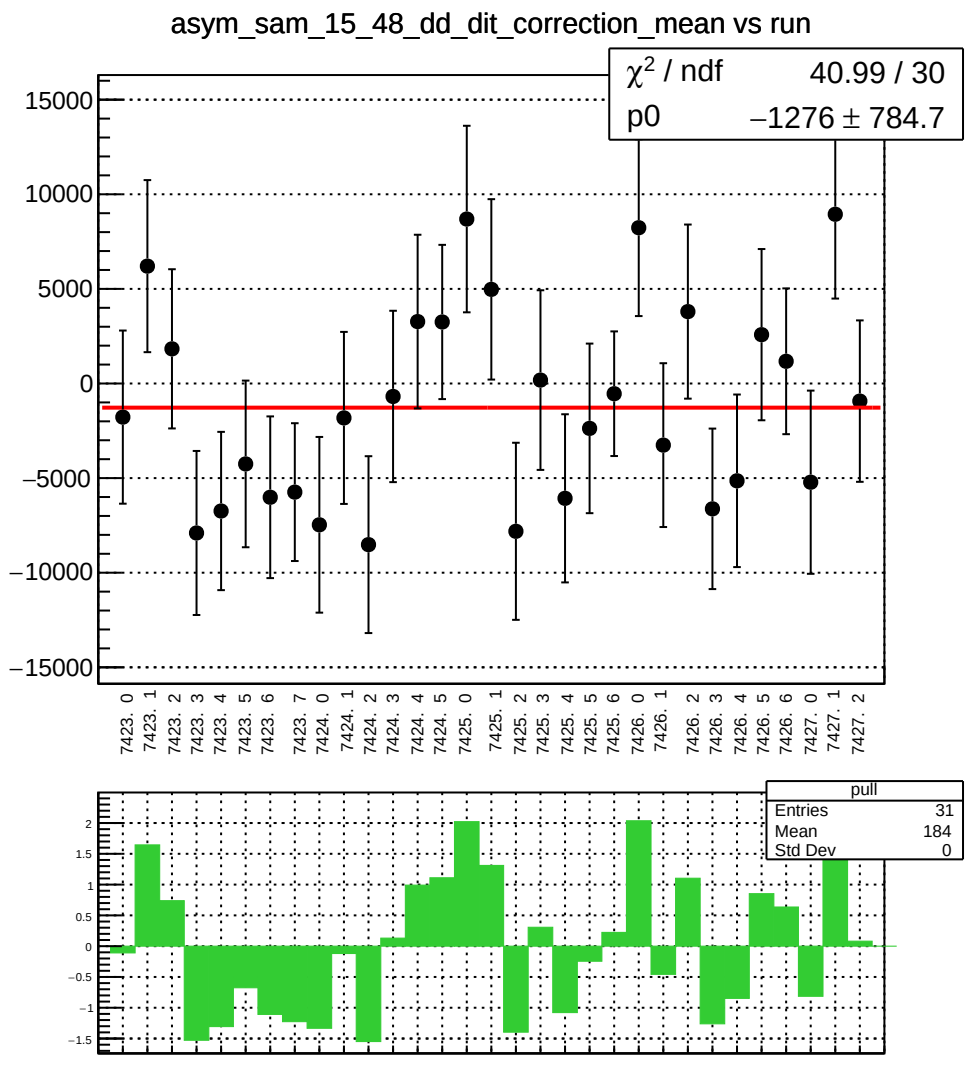

pull1D
Entries 31
Mean 0.009665
Std Dev 1.122
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

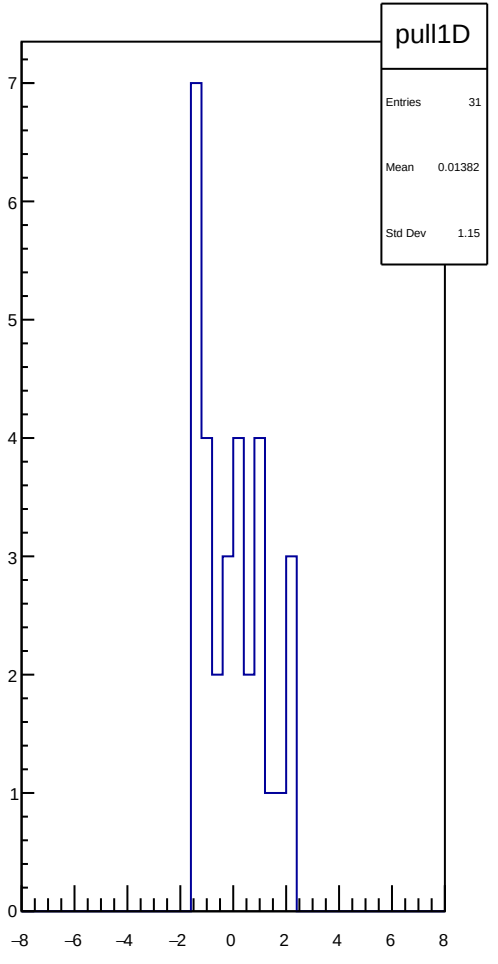

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1462 / 30
p0 445.4 ± 0.578
500
480
460
440
420
400
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

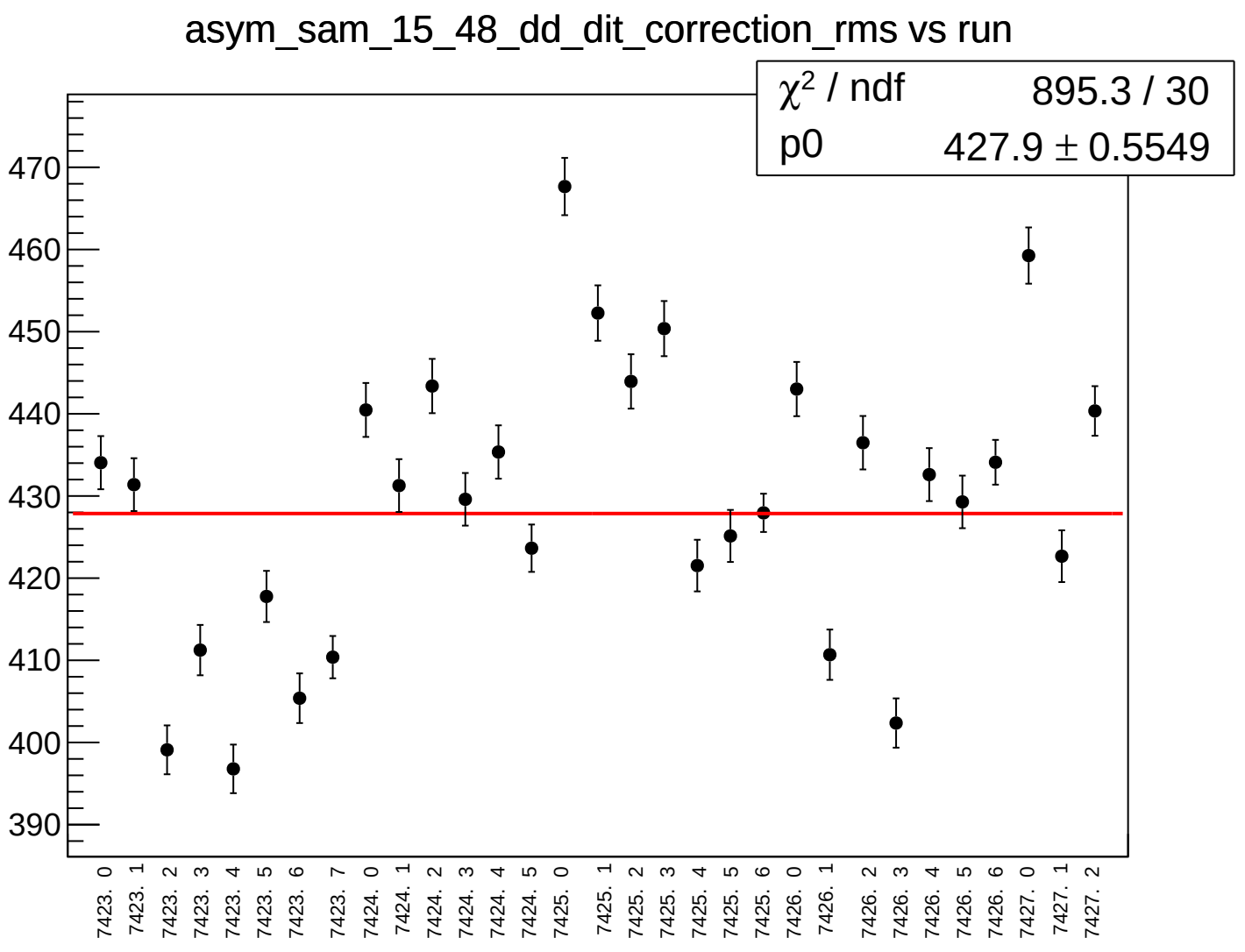

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 22.11 / 30
p0 173.5 ± 181.4
4000
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 58.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

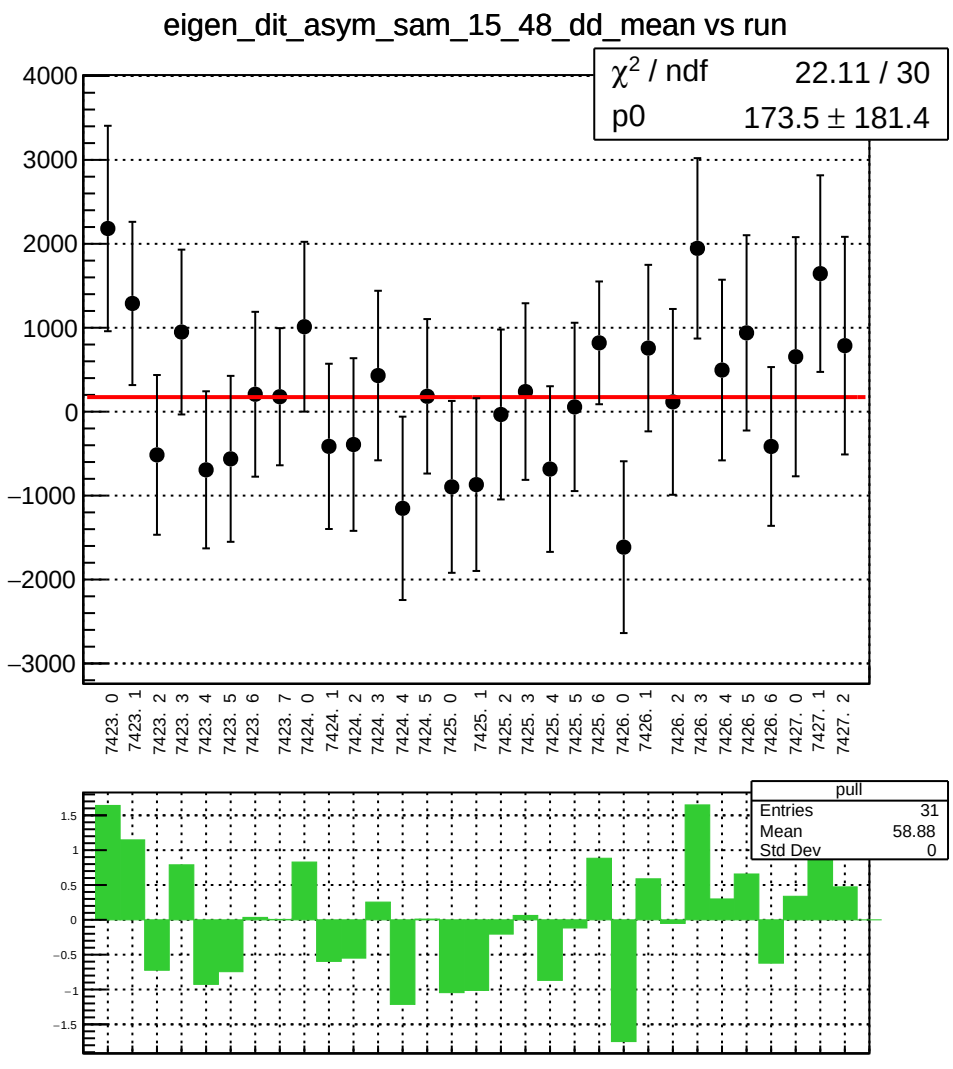

pull1D
Entries 31
Mean 0.01626
Std Dev 0.8444
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

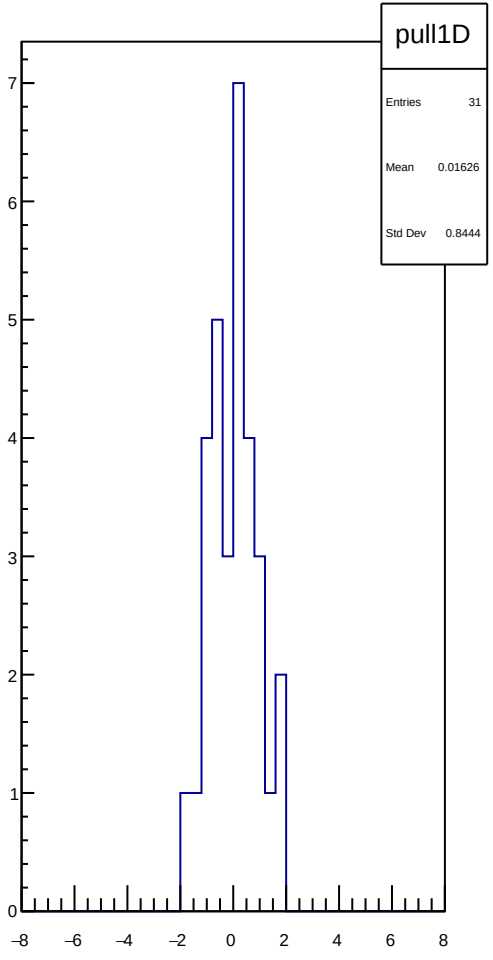

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 4982 / 30
p0 98.59 ± 0.1283
140
130
120
110
100
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

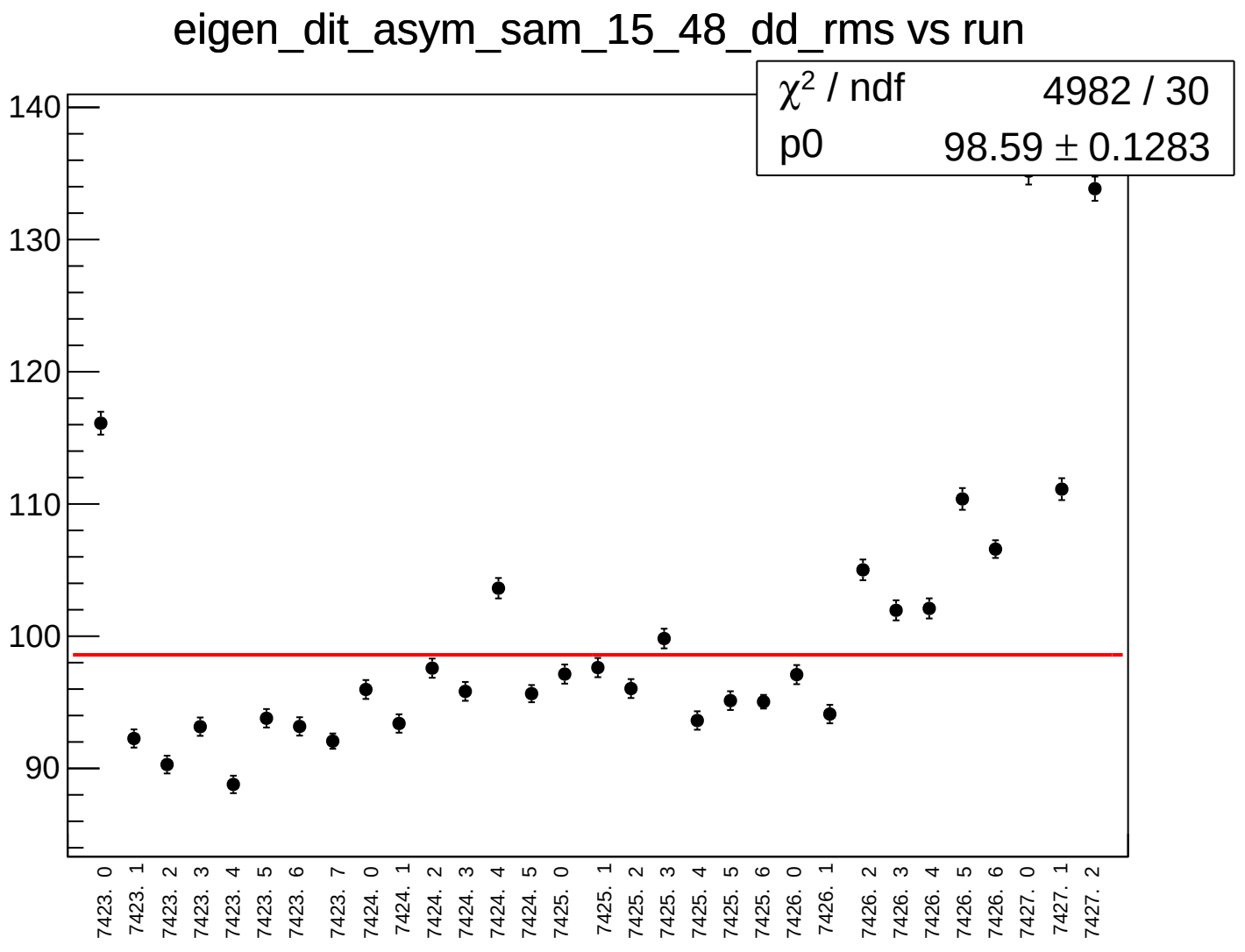

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 40.99 / 30
p0 −1276 ± 784.7
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 184
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

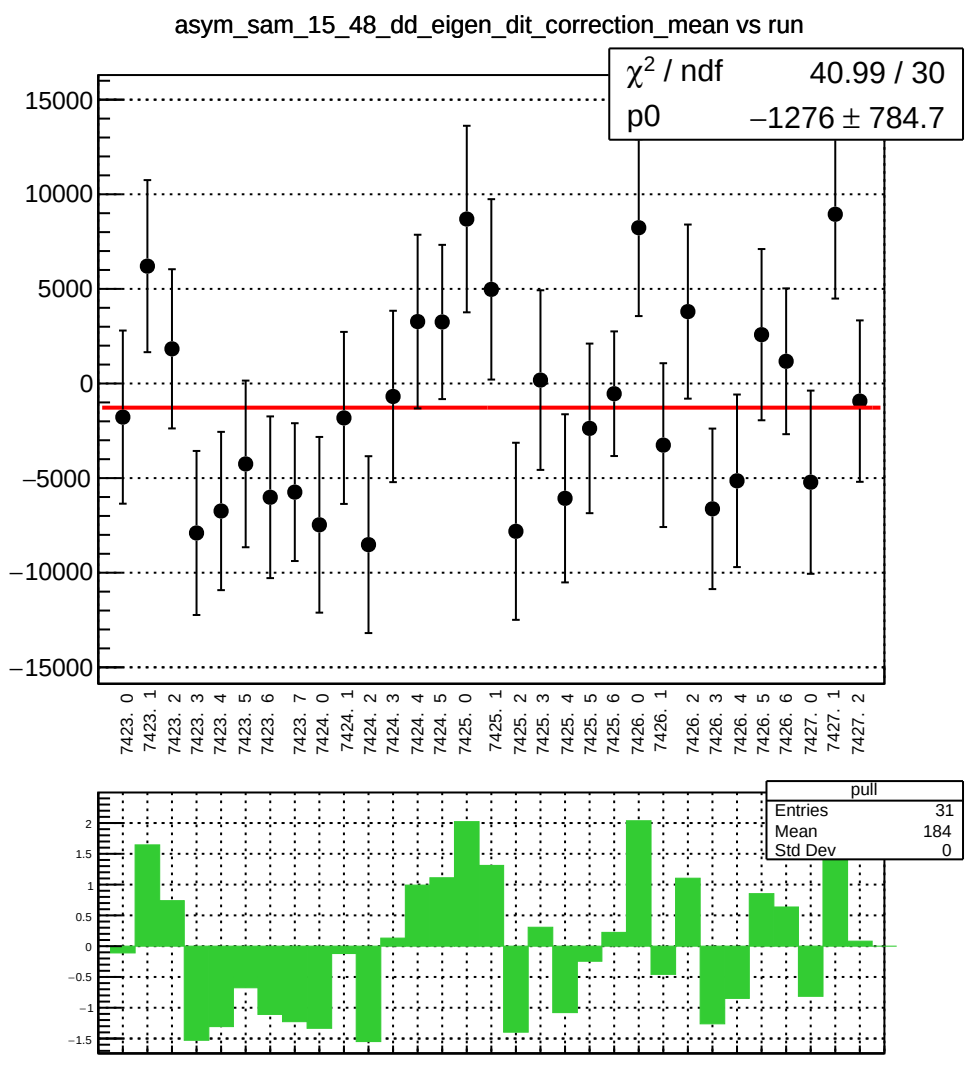

pull1D
Entries 31
Mean 0.01382
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

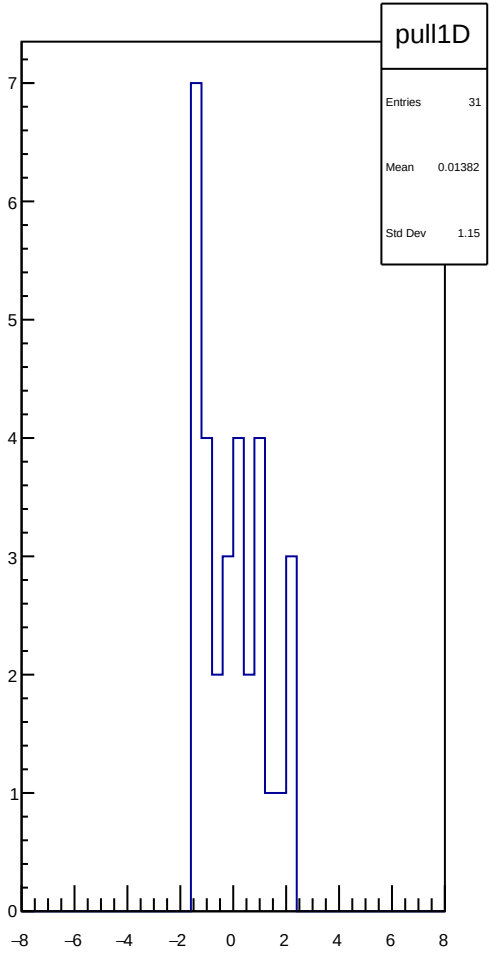

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 895.3 / 30
p0 427.9 ± 0.5549
470
460
450
440
430
420
410
400
390
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

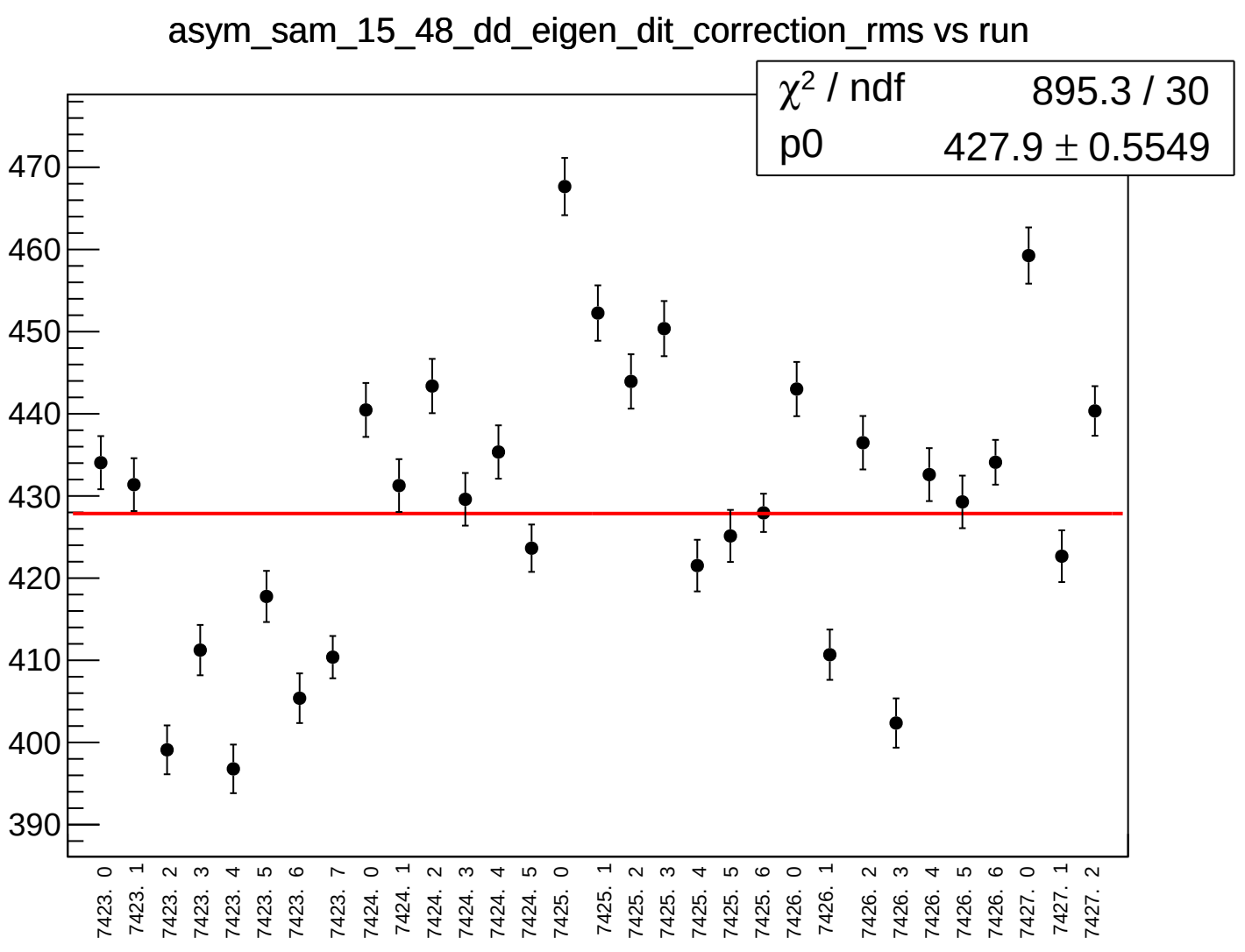

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 22.11 / 30
p0 173.5 ± 181.4
4000
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 58.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

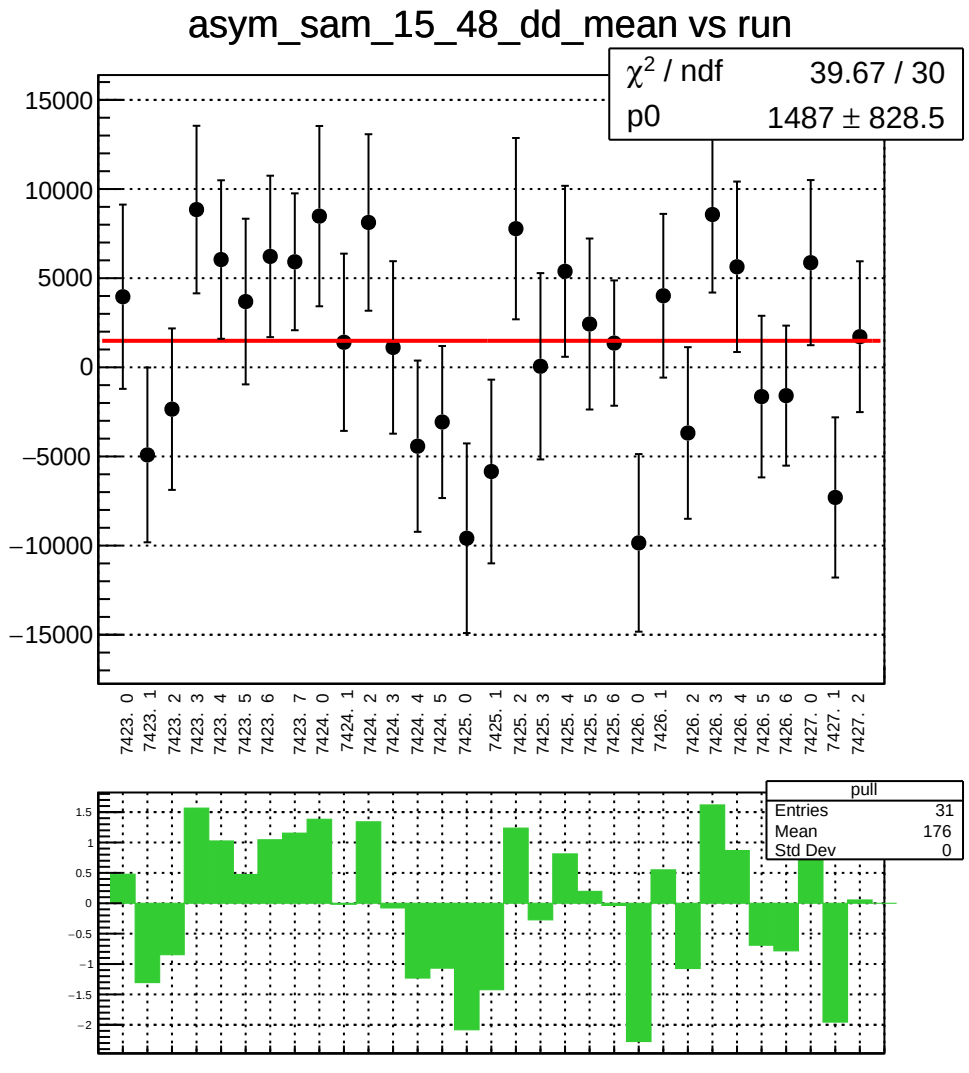

pull1D
Entries 31
Mean 0.01626
Std Dev 0.8444
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

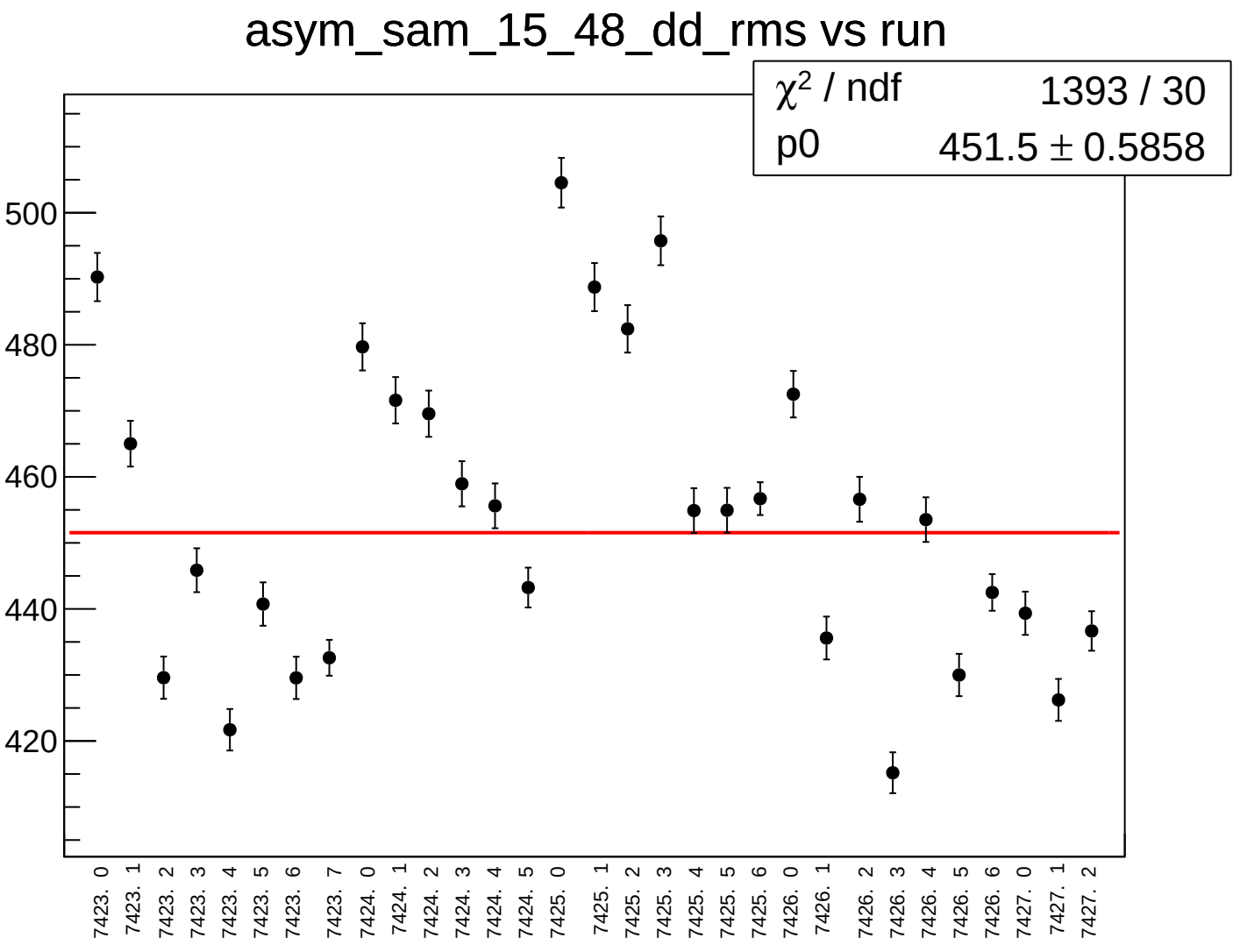

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 4982 / 30
p0 98.59 ± 0.1283
140
130
120
110
100
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

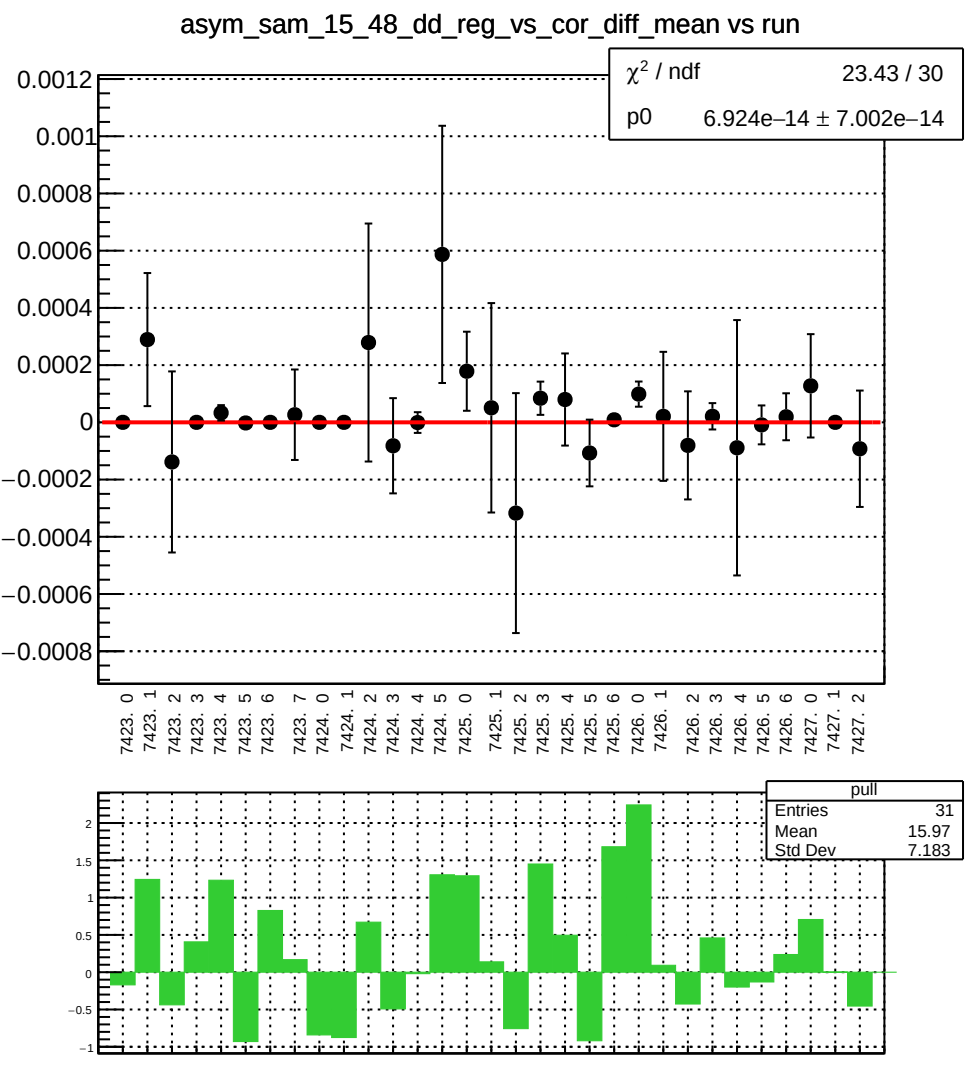

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.99 / 30
p0 −1276 ± 784.7
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 184
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

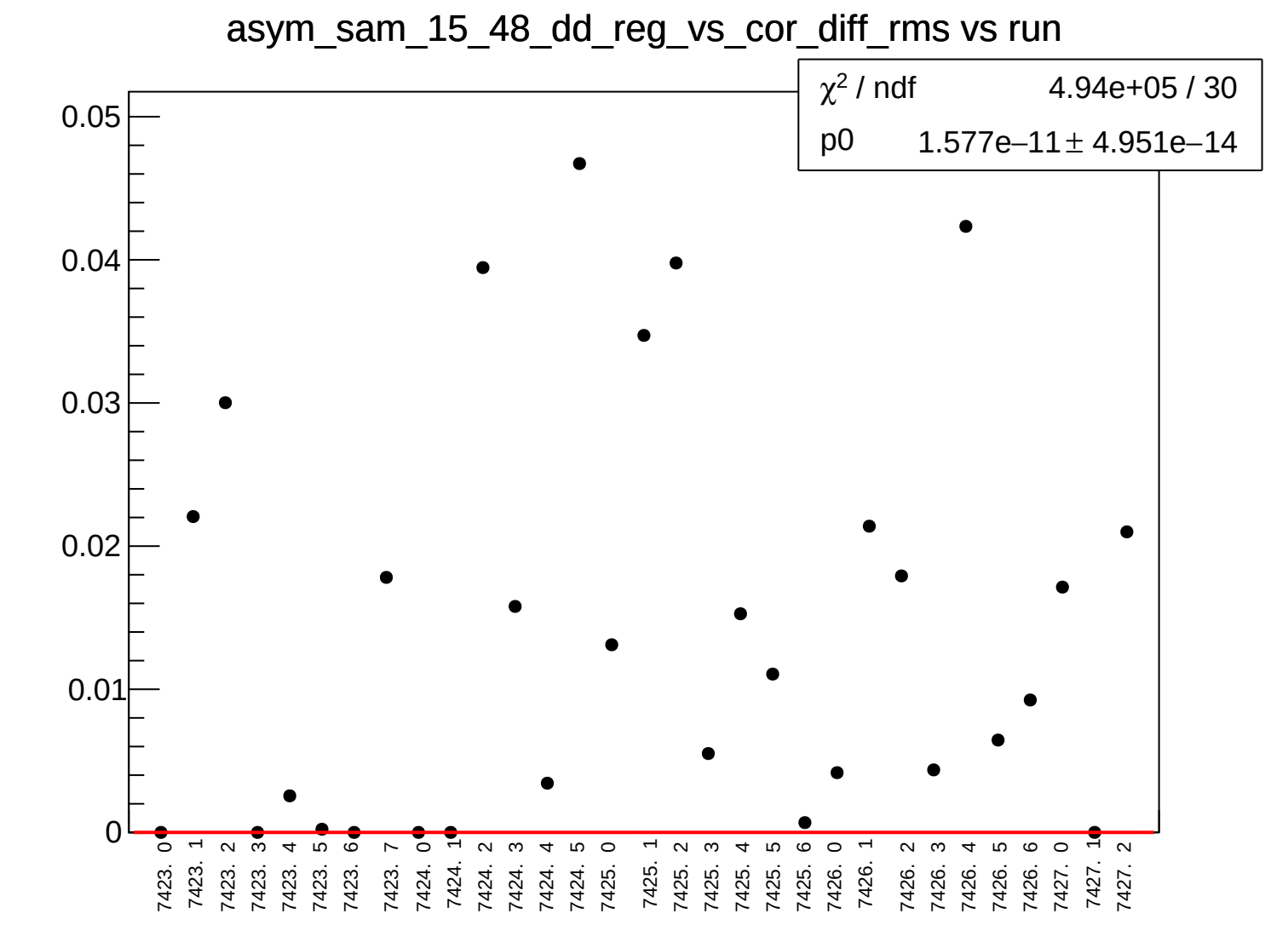

pull1D
Entries 31
Mean 0.01382
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

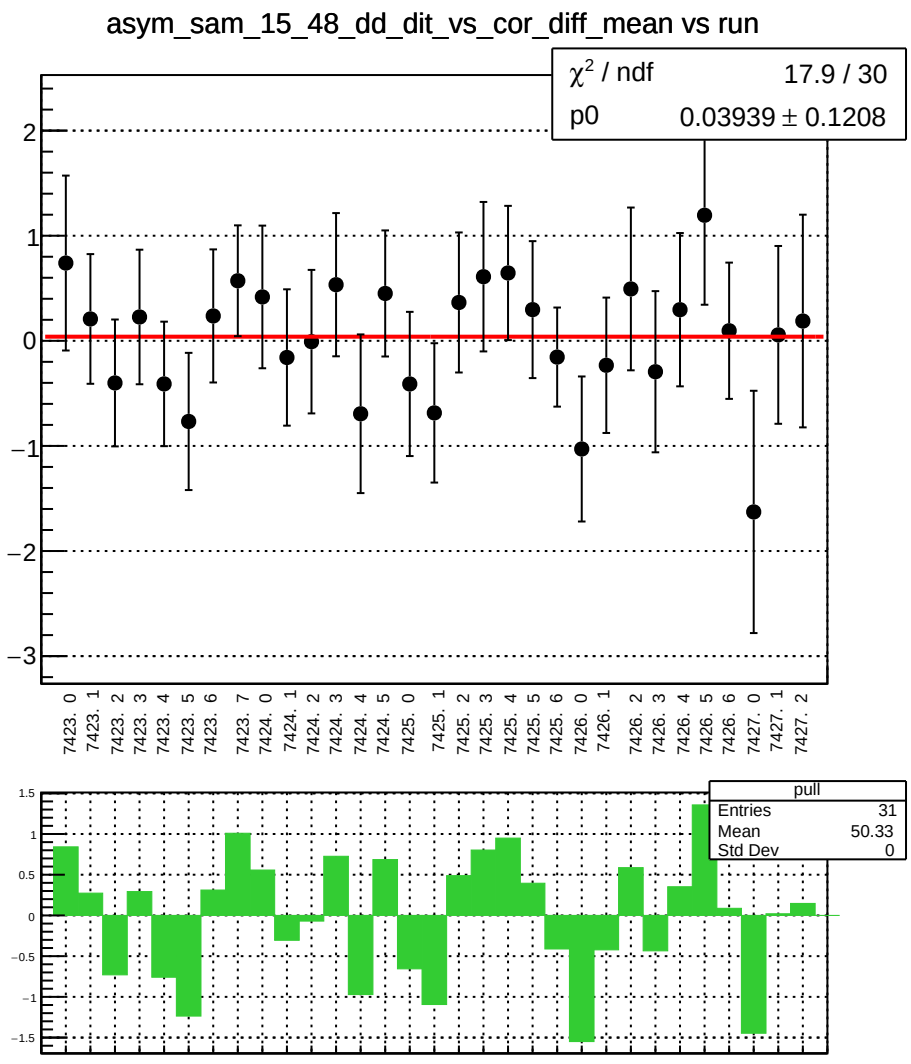

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 895.3 / 30
p0 427.9 ± 0.5549
470
460
450
440
430
420
410
400
390
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

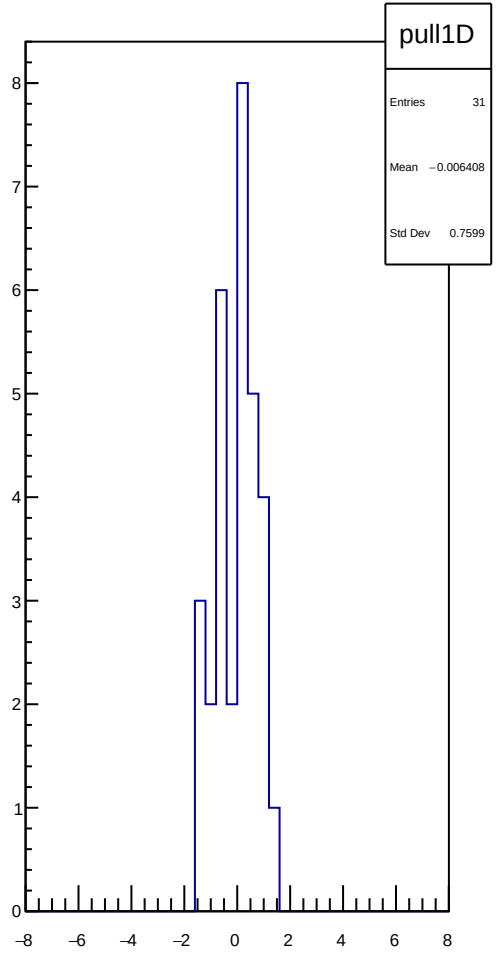

asym_sam_15_48_dd_mean vs run
χ² / ndf 39.67 / 30
p0 1487 ± 828.5
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 176
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01248
Std Dev 1.131
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

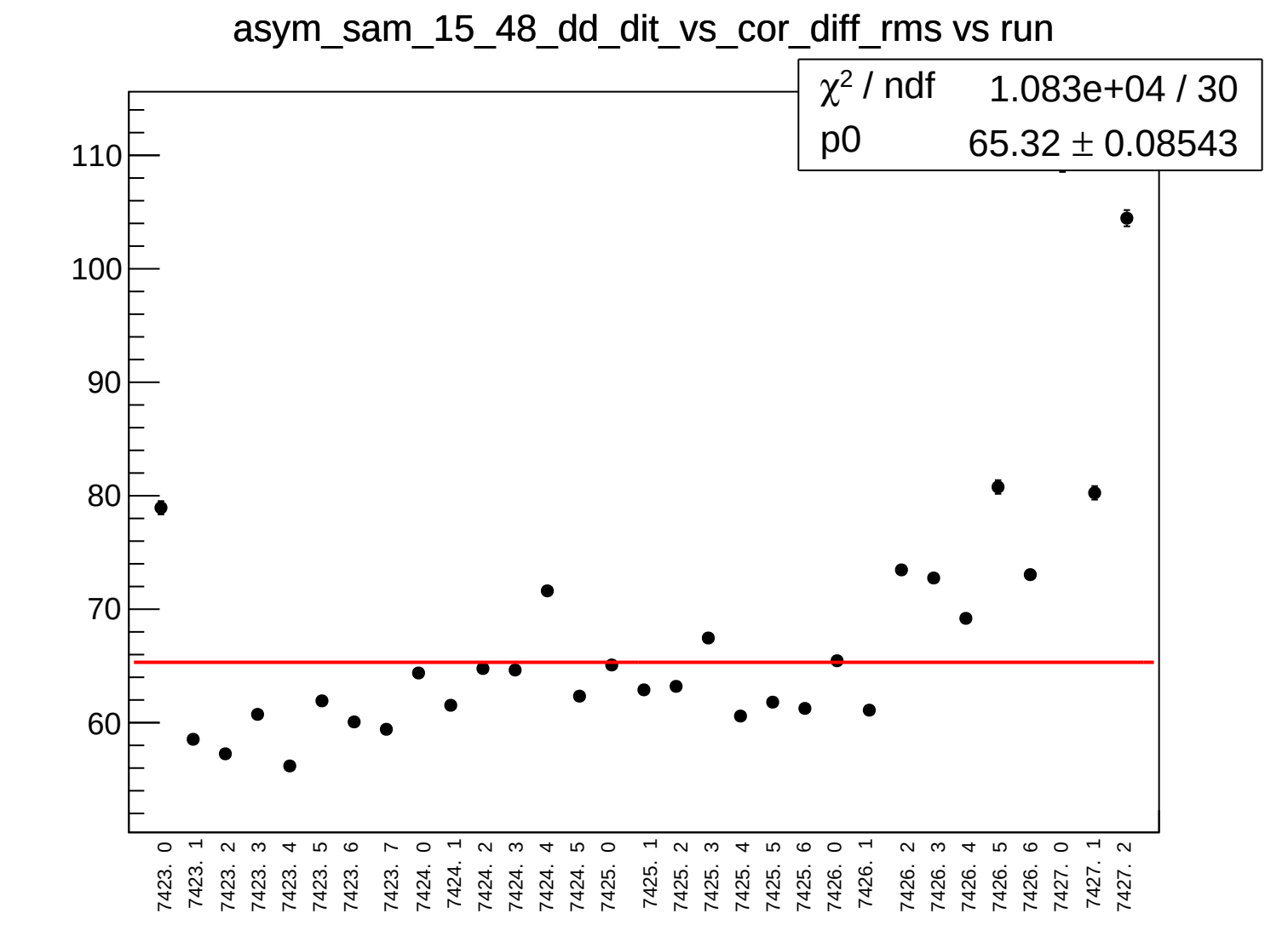

asym_sam_15_48_dd_rms vs run
χ² / ndf 1393 / 30
p0 451.5 ± 0.5858
500
480
460
440
420
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

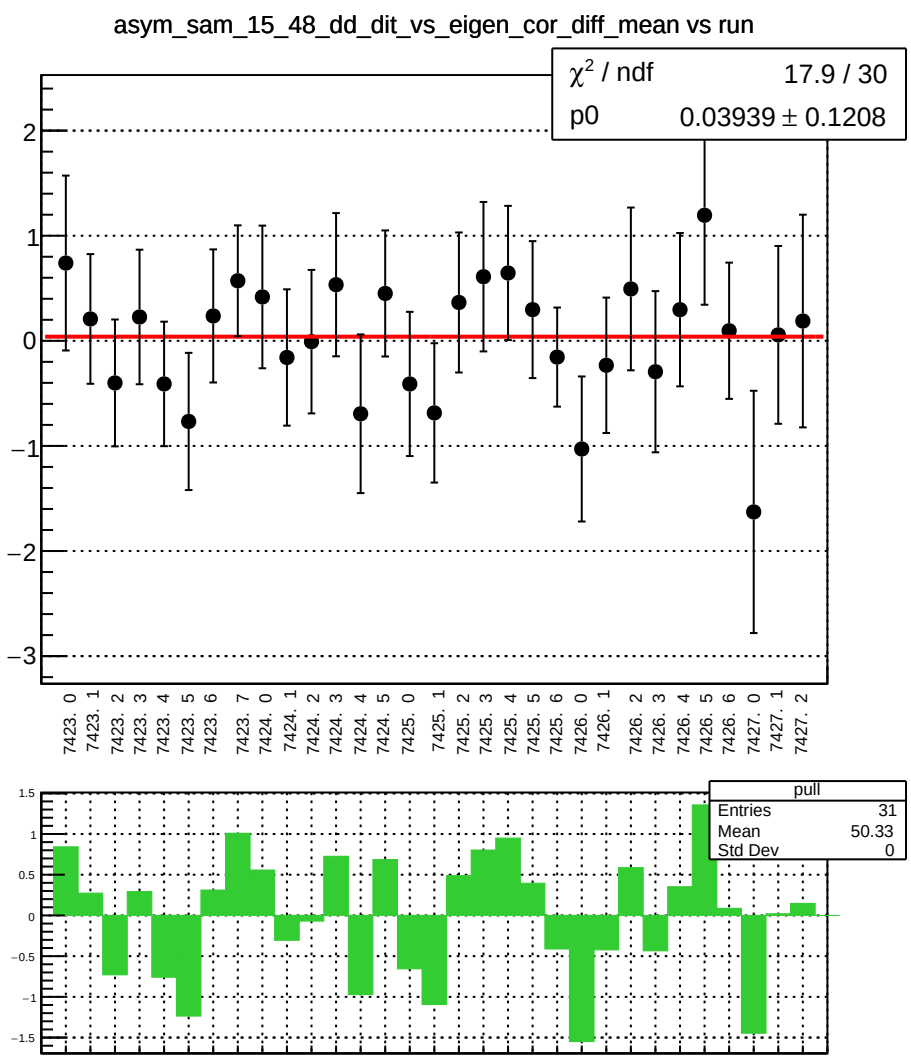

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 23.43 / 30
p0 6.924e−14 ± 7.002e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.97
Std Dev 7.183
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.2582
Std Dev 0.8302
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

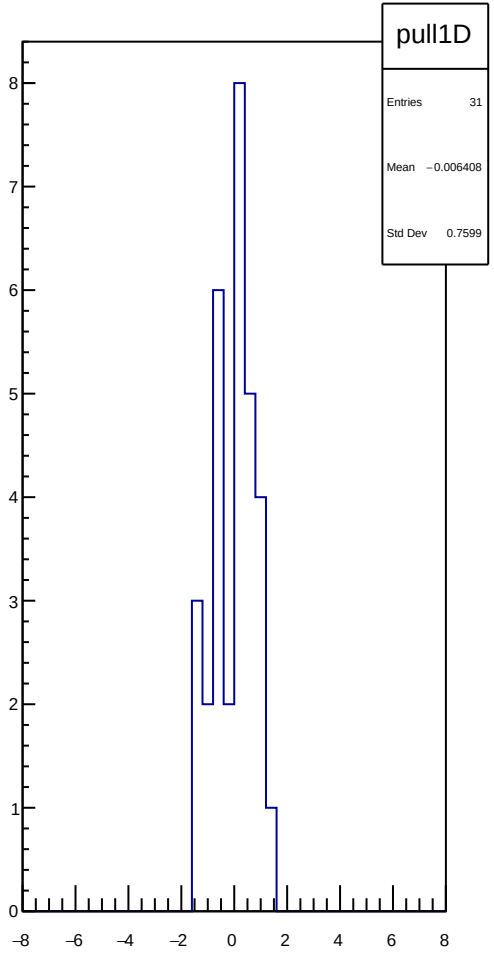

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.94e+05 / 30
p0 1.577e−11 ± 4.951e−14
0.05
0.04
0.03
0.02
0.01
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

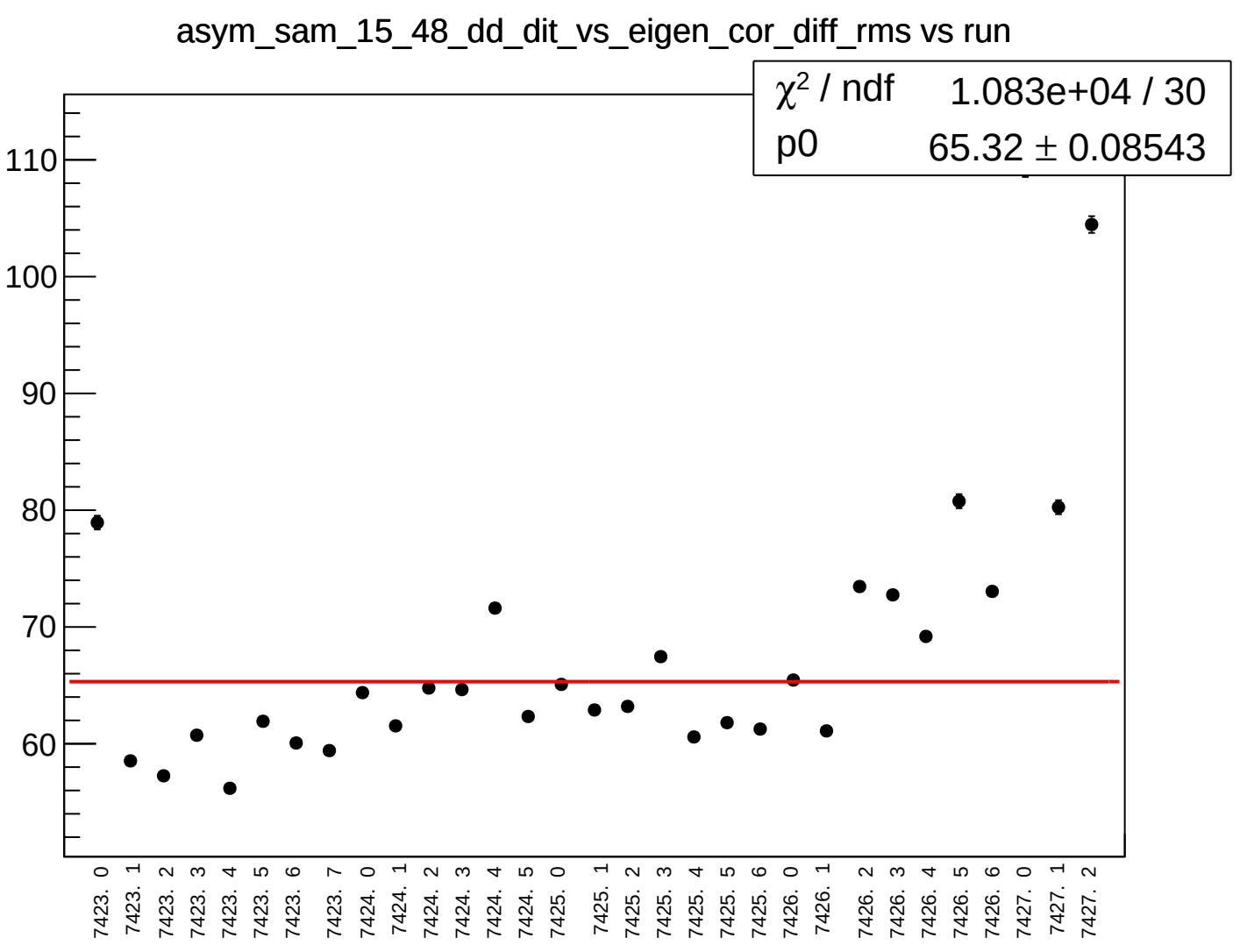

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 17.9 / 30
p0 0.03939 ± 0.1208
pull
Entries 31
Mean 50.33
Std Dev 0

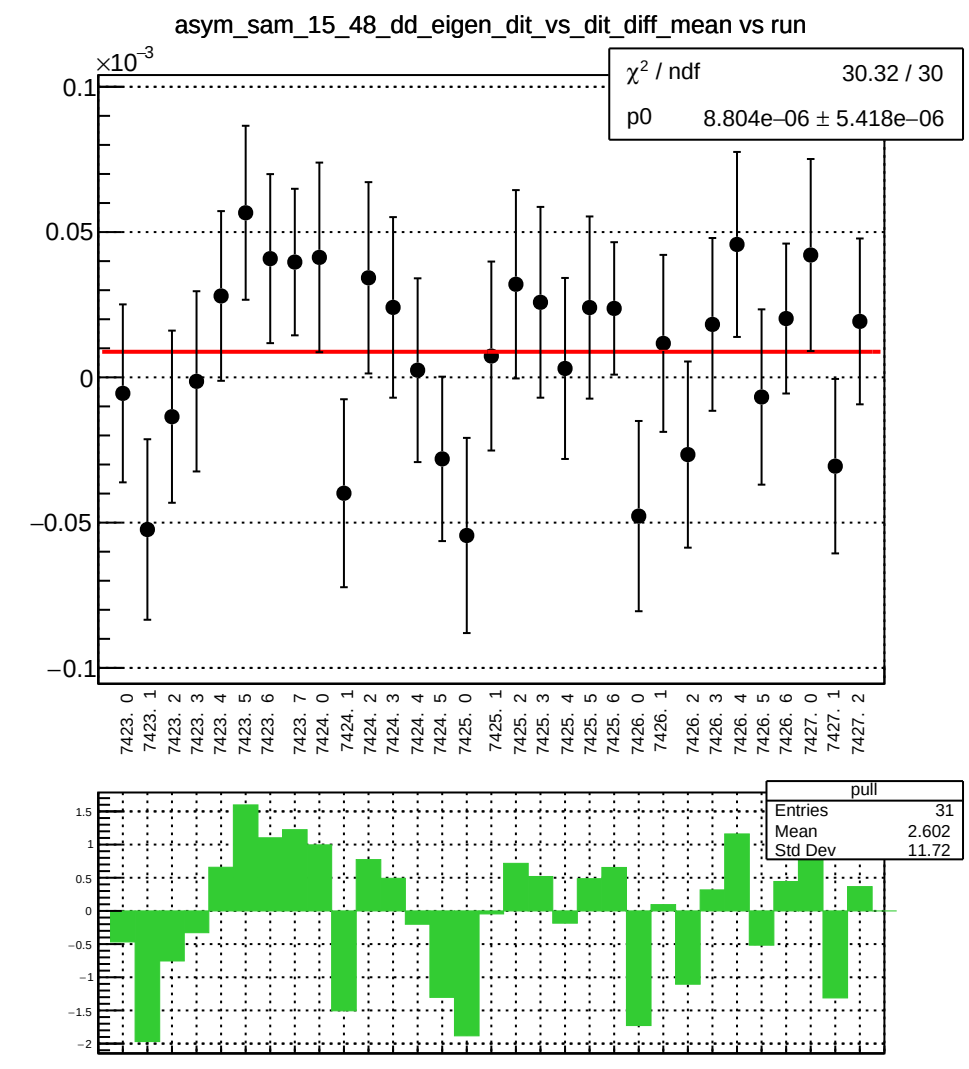

pull1D
Entries 31
Mean −0.006408
Std Dev 0.7599

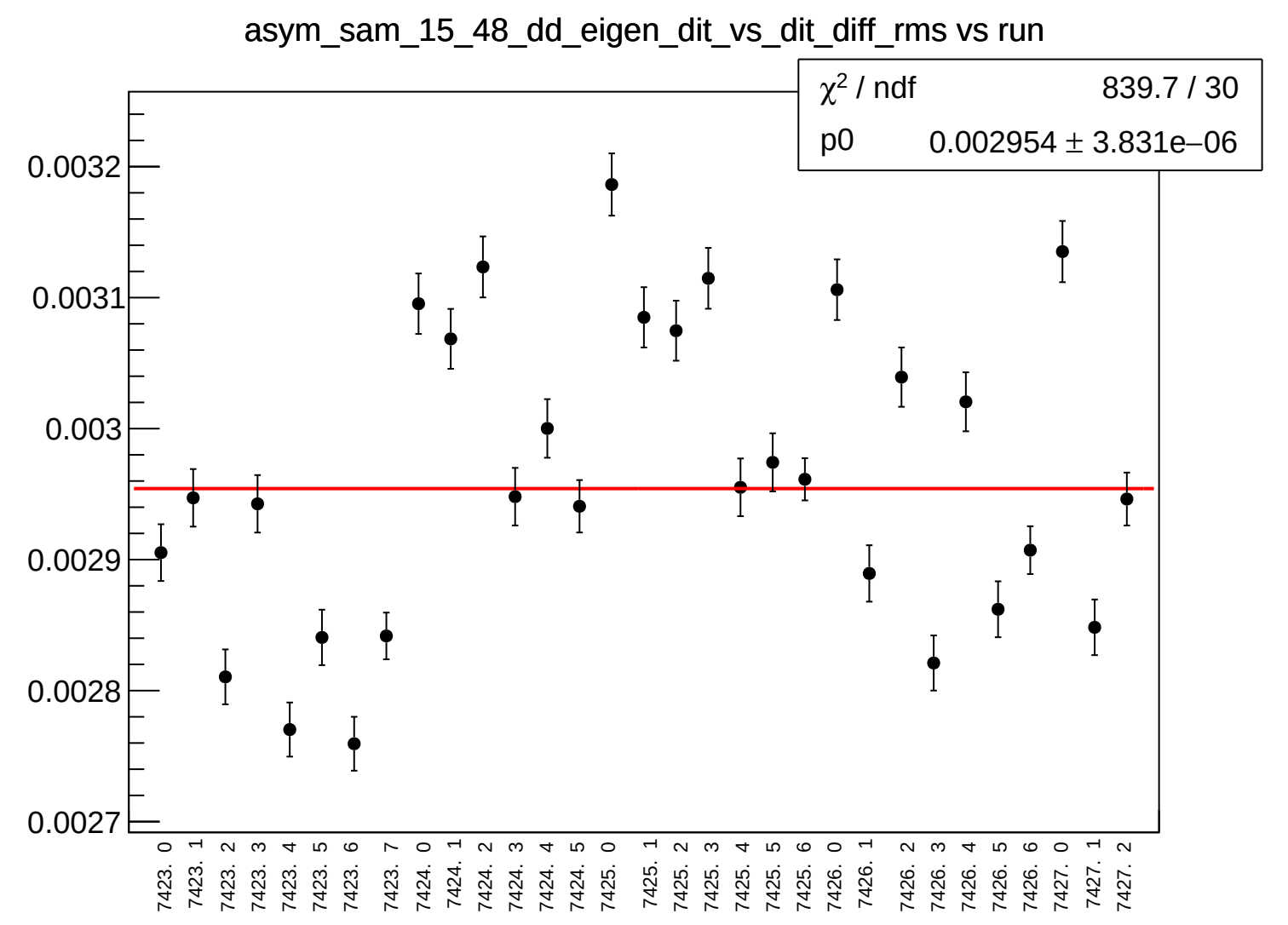

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.083e+04 / 30
p0 65.32 ± 0.08543
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

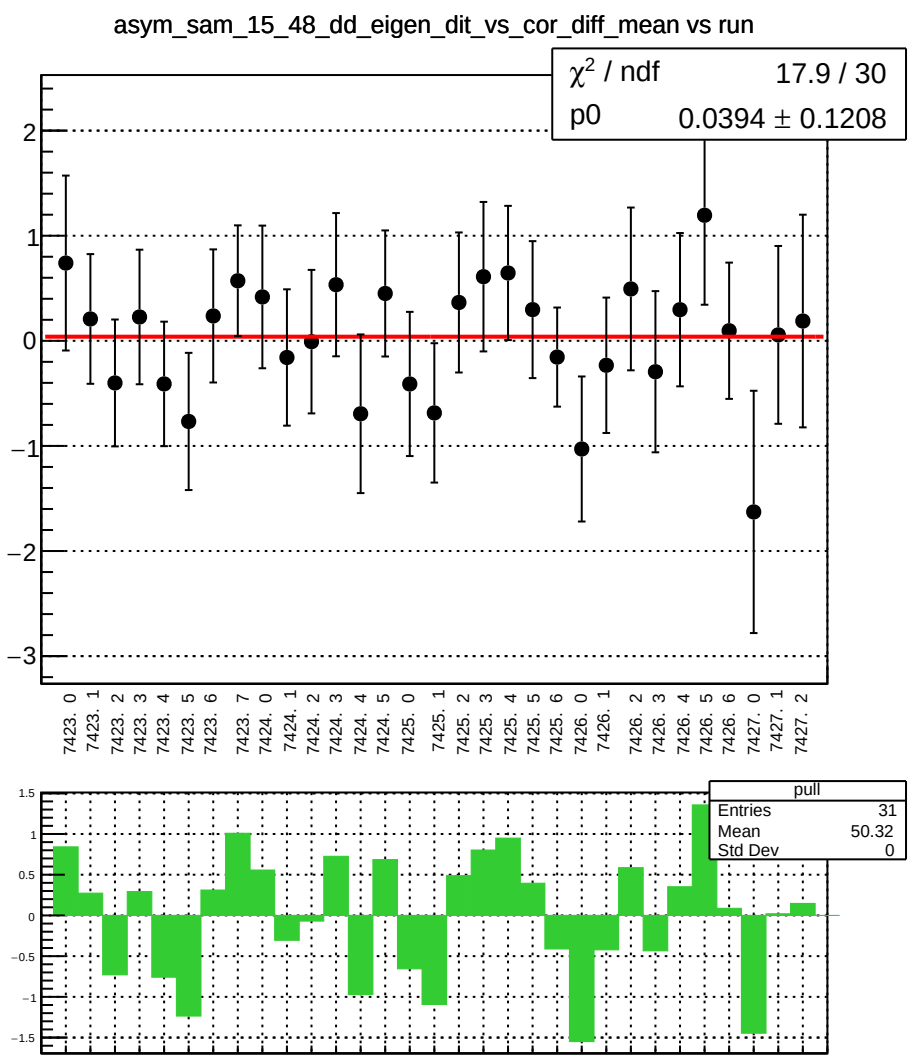

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.9 / 30
p0 0.03939 ± 0.1208
pull
Entries 31
Mean 50.33
Std Dev 0

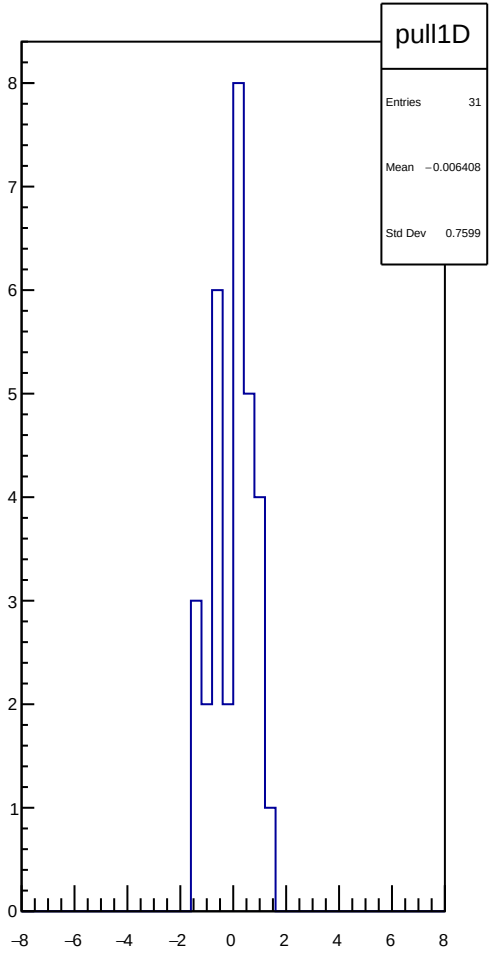

pull1D
Entries 31
Mean −0.006408
Std Dev 0.7599

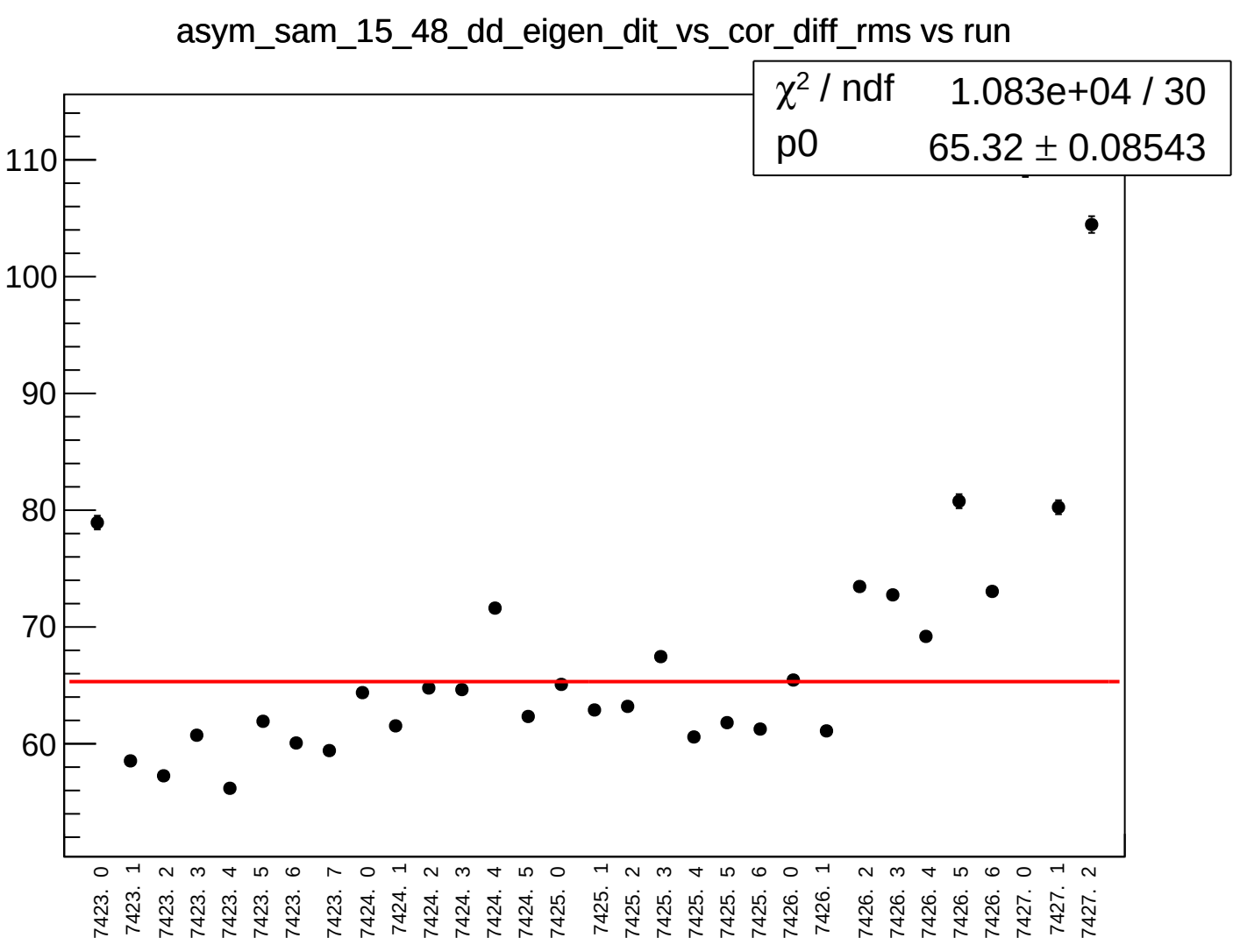

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.083e+04 / 30
p0 65.32 ± 0.08543
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.32 / 30
p0 8.804e−06 ± 5.418e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 2.602
Std Dev 11.72
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.02231
Std Dev 0.9888
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

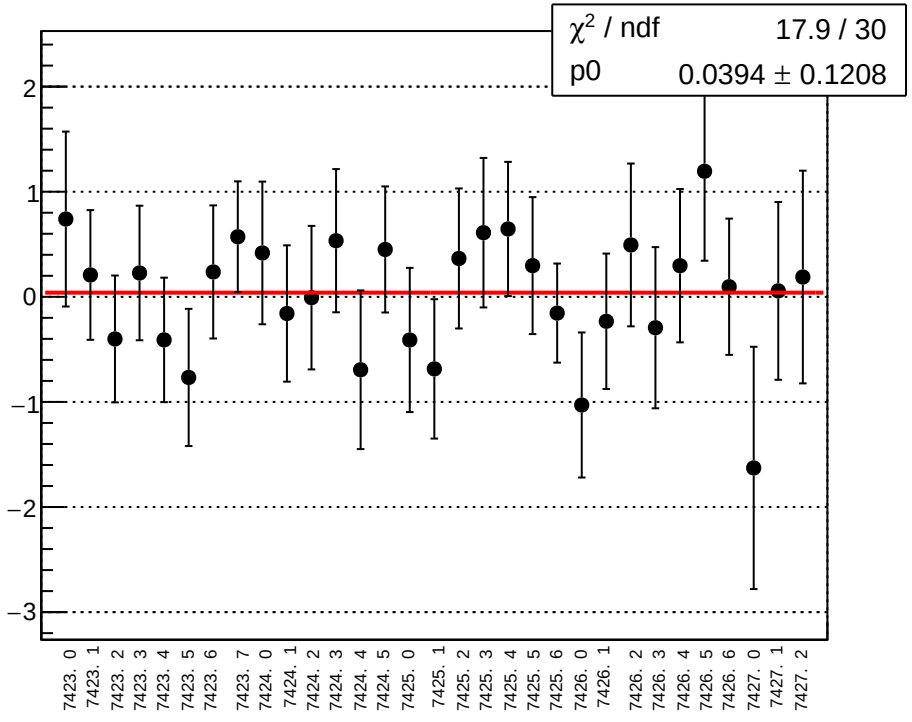

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 839.7 / 30
p0 0.002954 ± 3.831e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

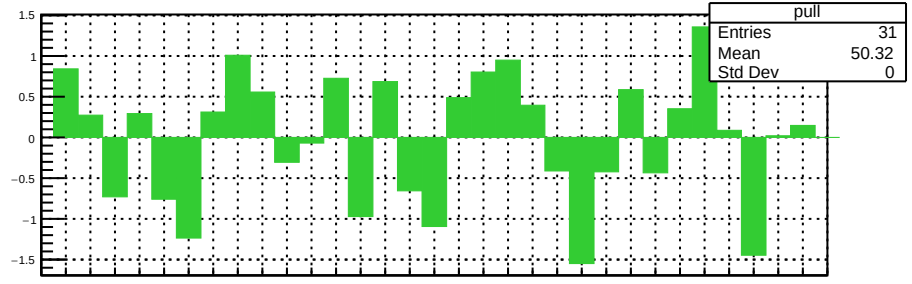

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.9 / 30
p0 0.0394 ± 0.1208
pull
Entries 31
Mean 50.32
Std Dev 0

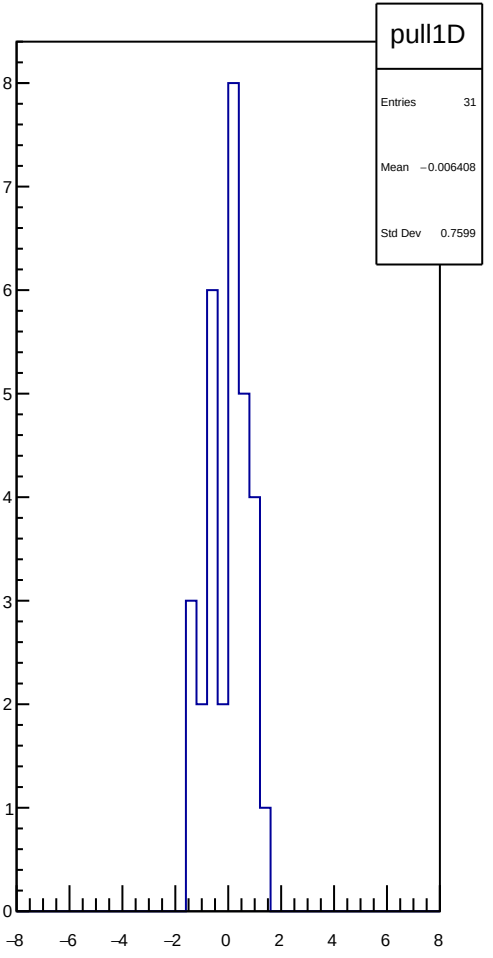

pull1D
Entries 31
Mean −0.006408
Std Dev 0.7599

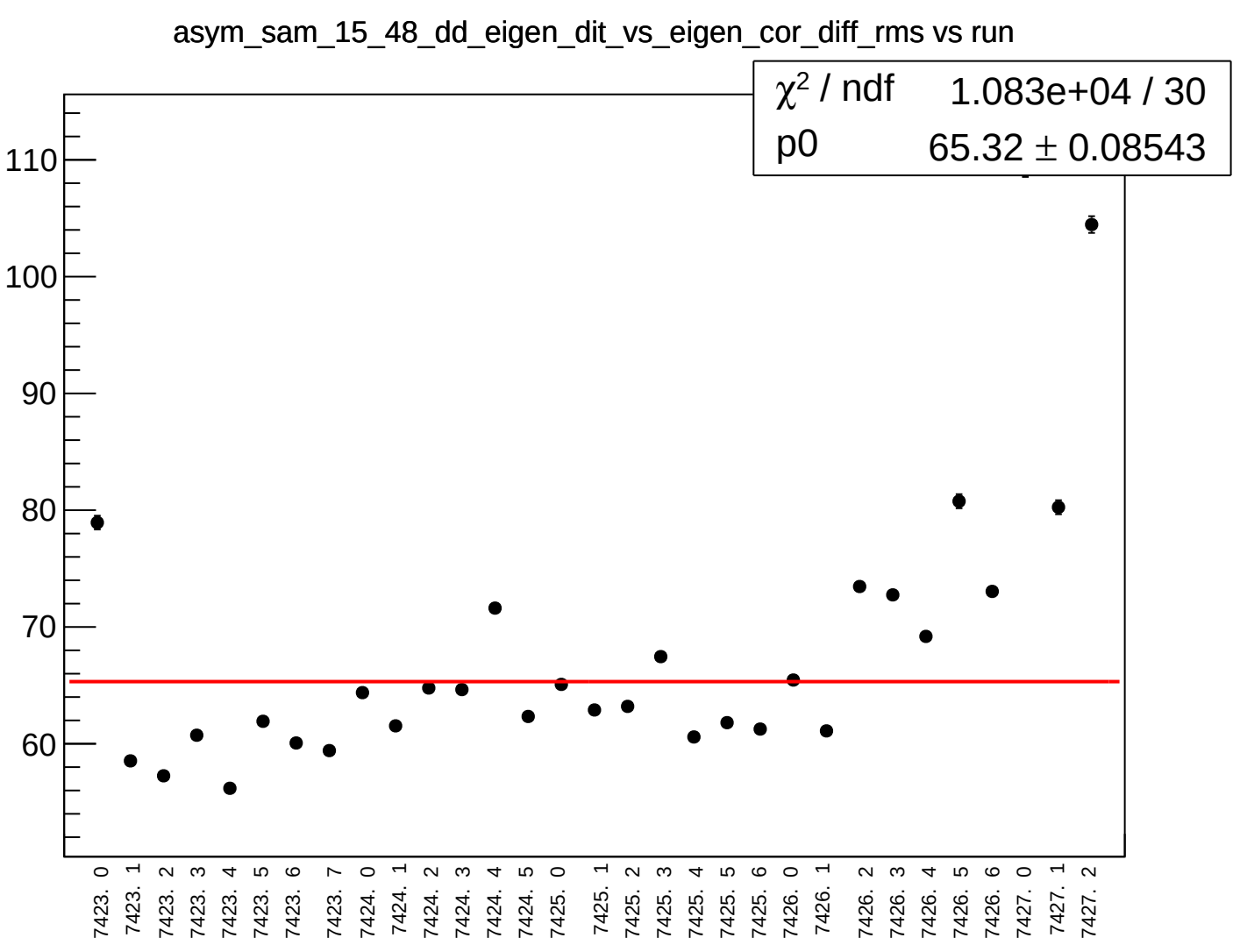

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.083e+04 / 30
p0 65.32 ± 0.08543
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

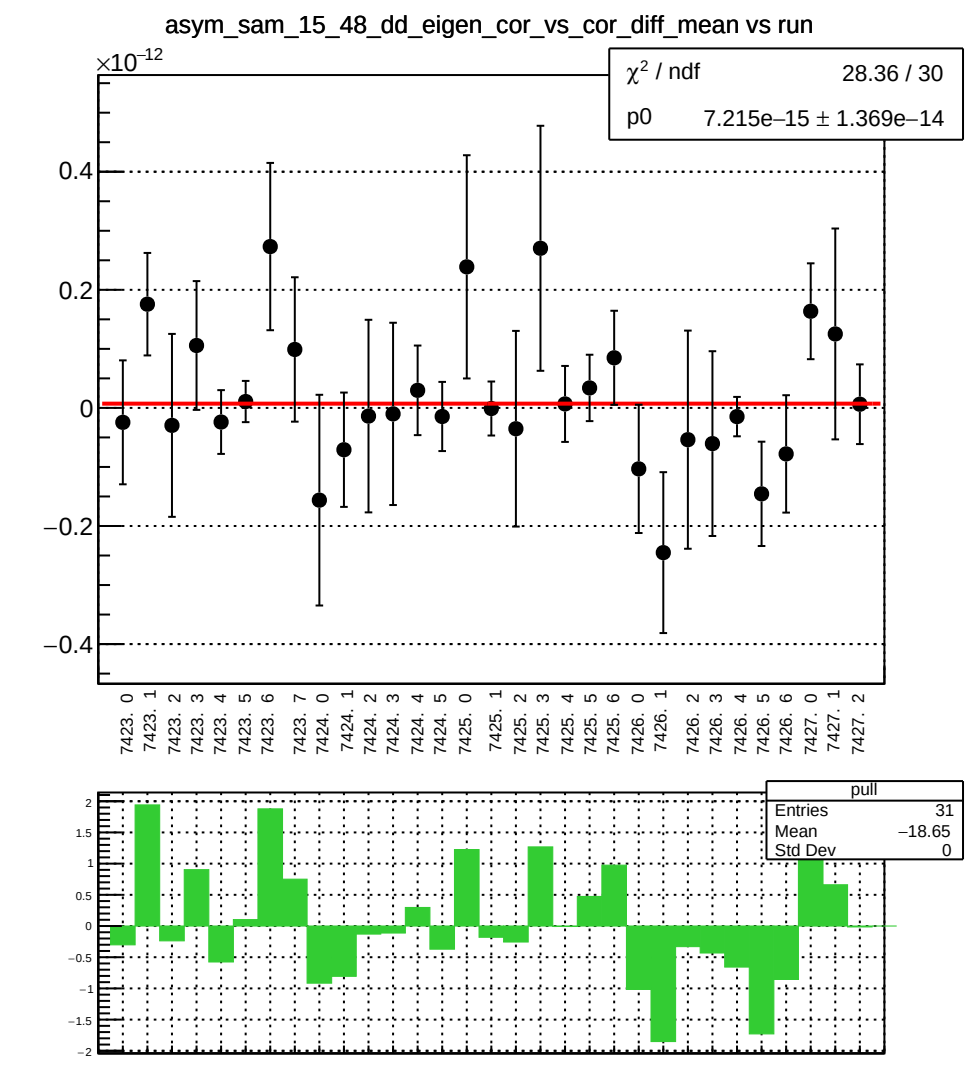
asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

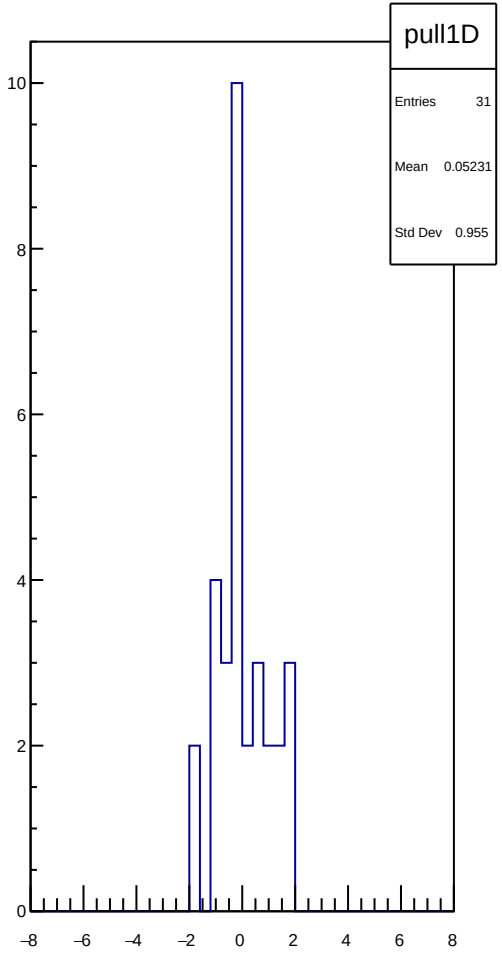


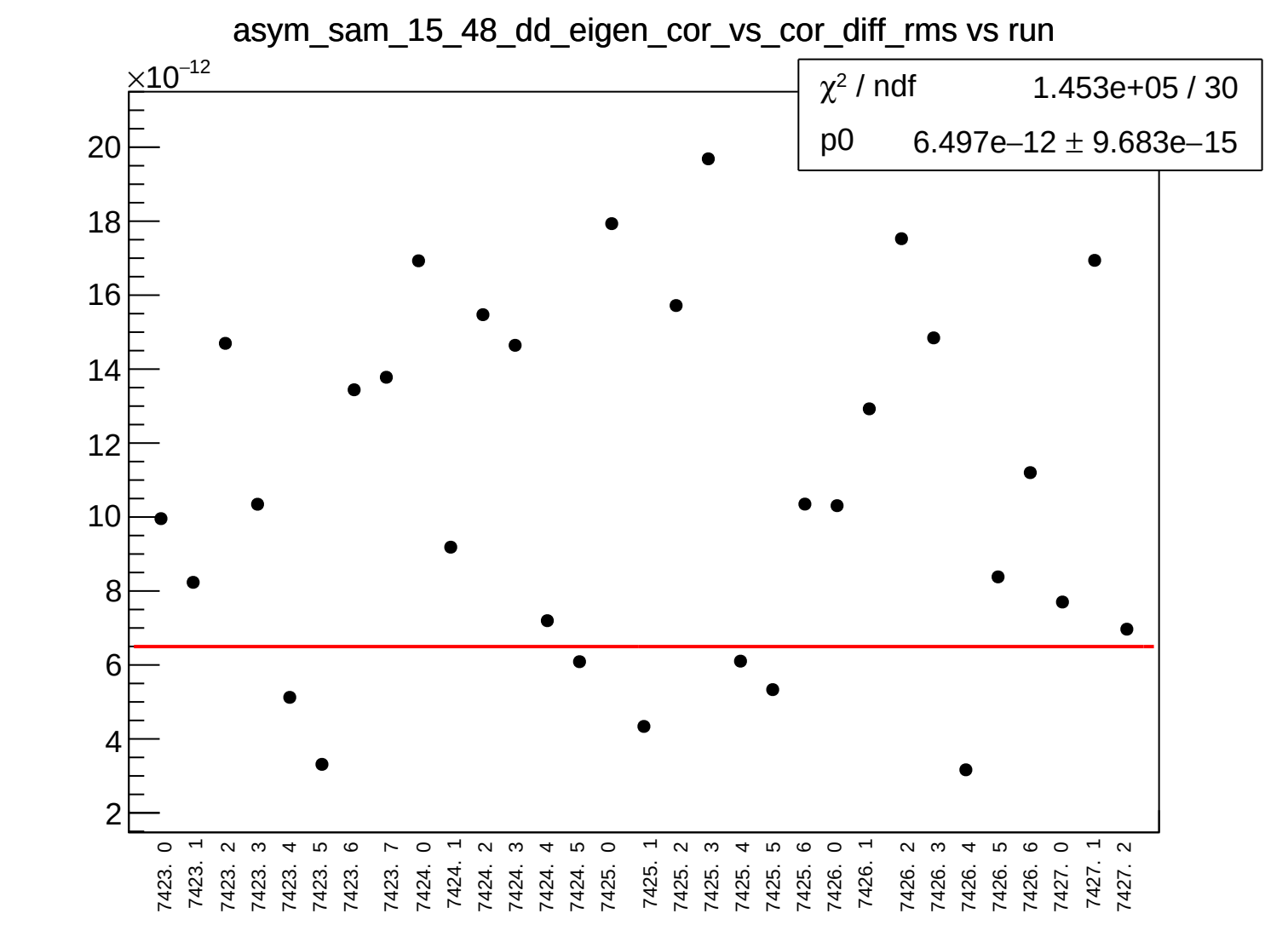


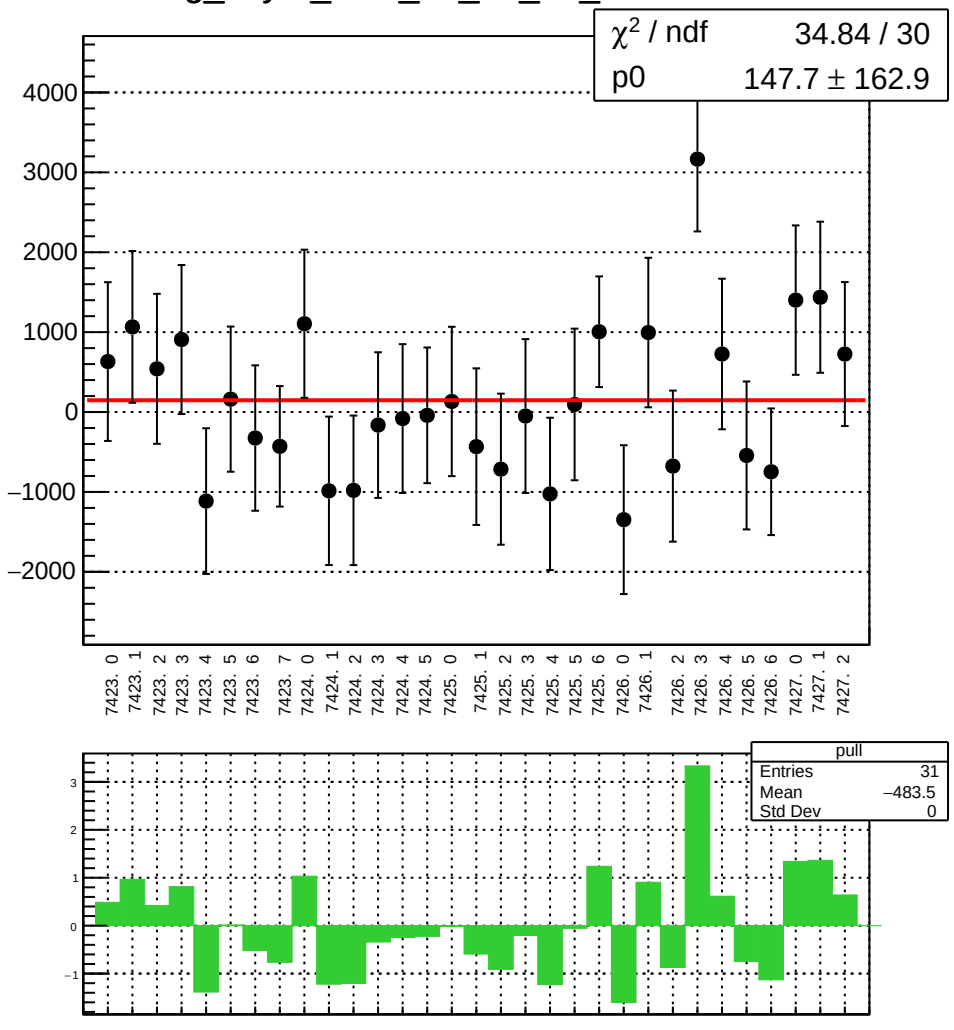


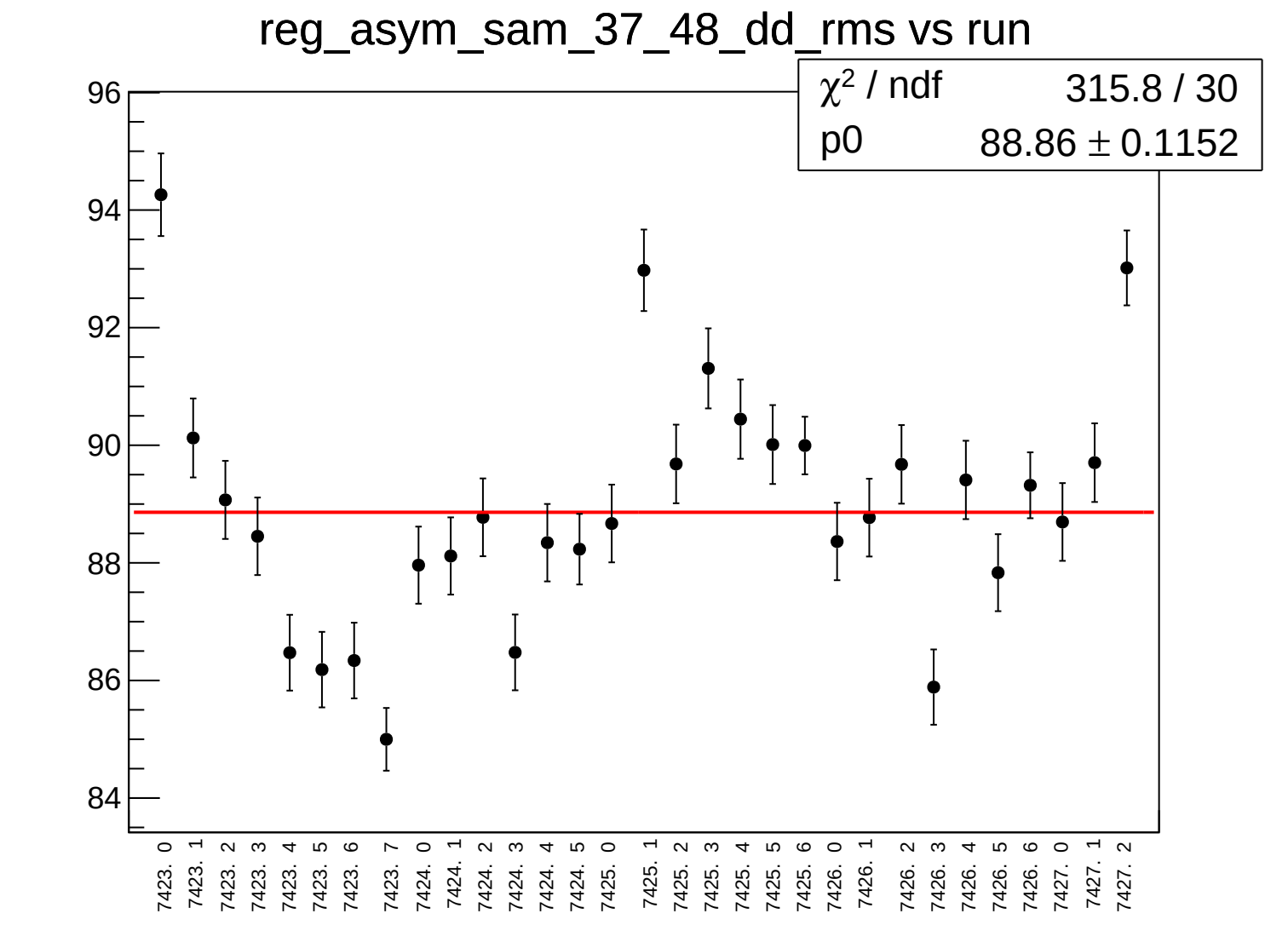

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.083e+04 / 30
p0 65.32 ± 0.08543
110
100
90
80
70
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

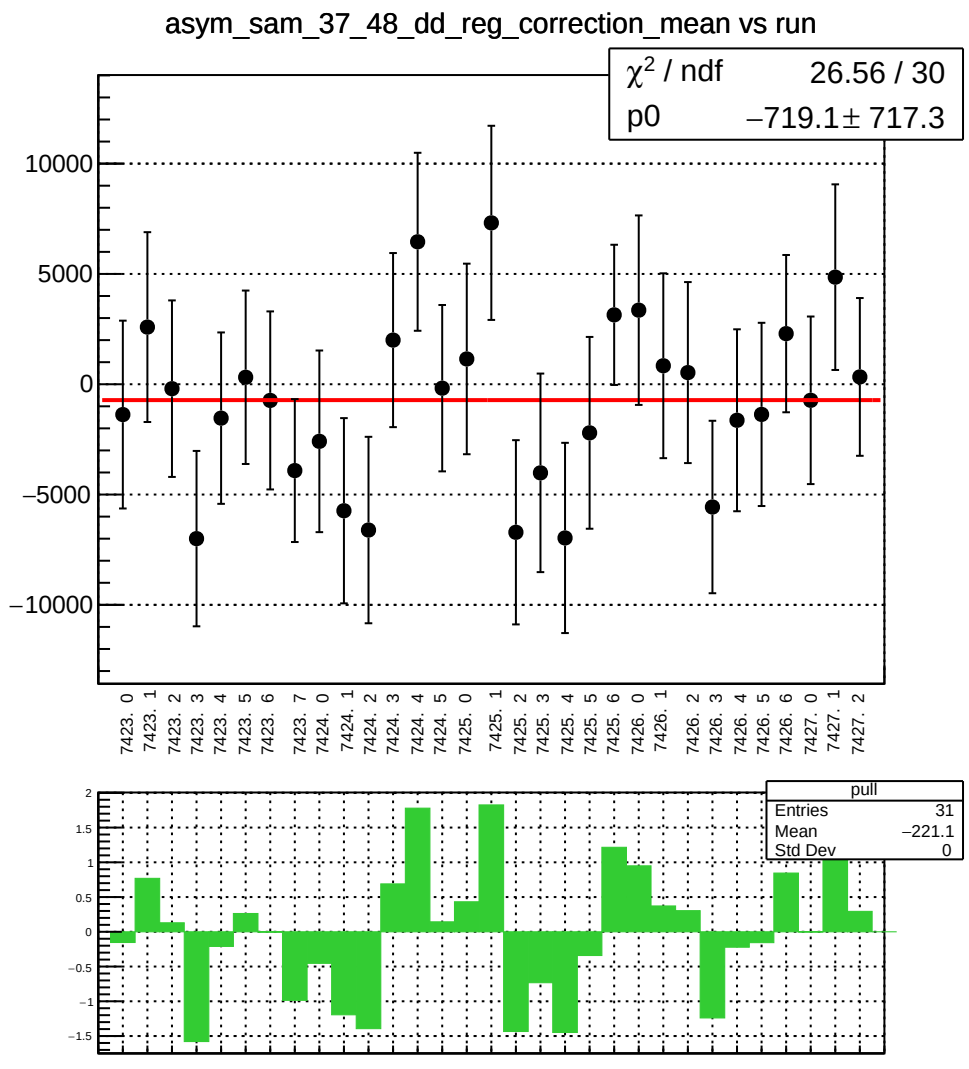

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 28.36 / 30
p0 7.215e−15 ± 1.369e−14
0.4
0.2
0
−0.2
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −18.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

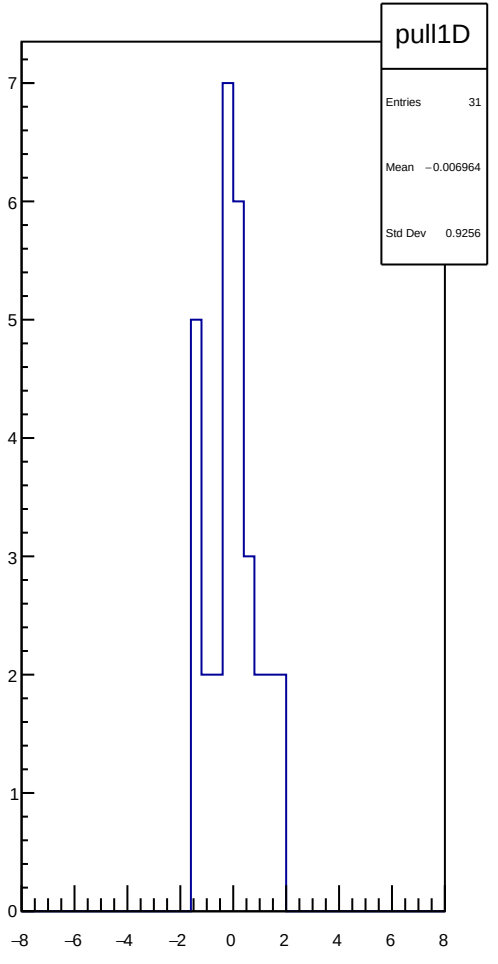

pull1D
Entries 31
Mean 0.05231
Std Dev 0.955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

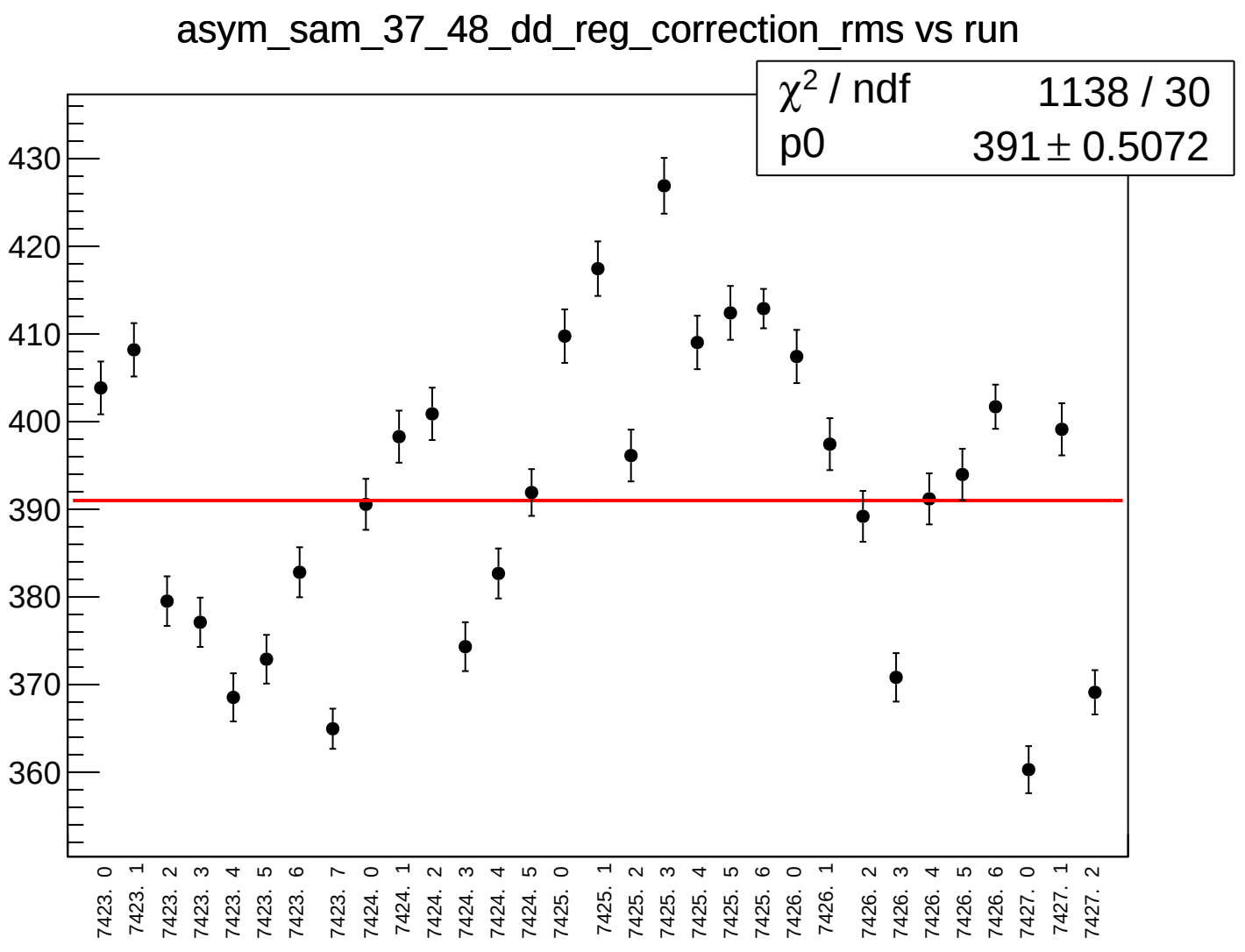

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.453e+05 / 30
p0 6.497e−12 ± 9.683e−15
20
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

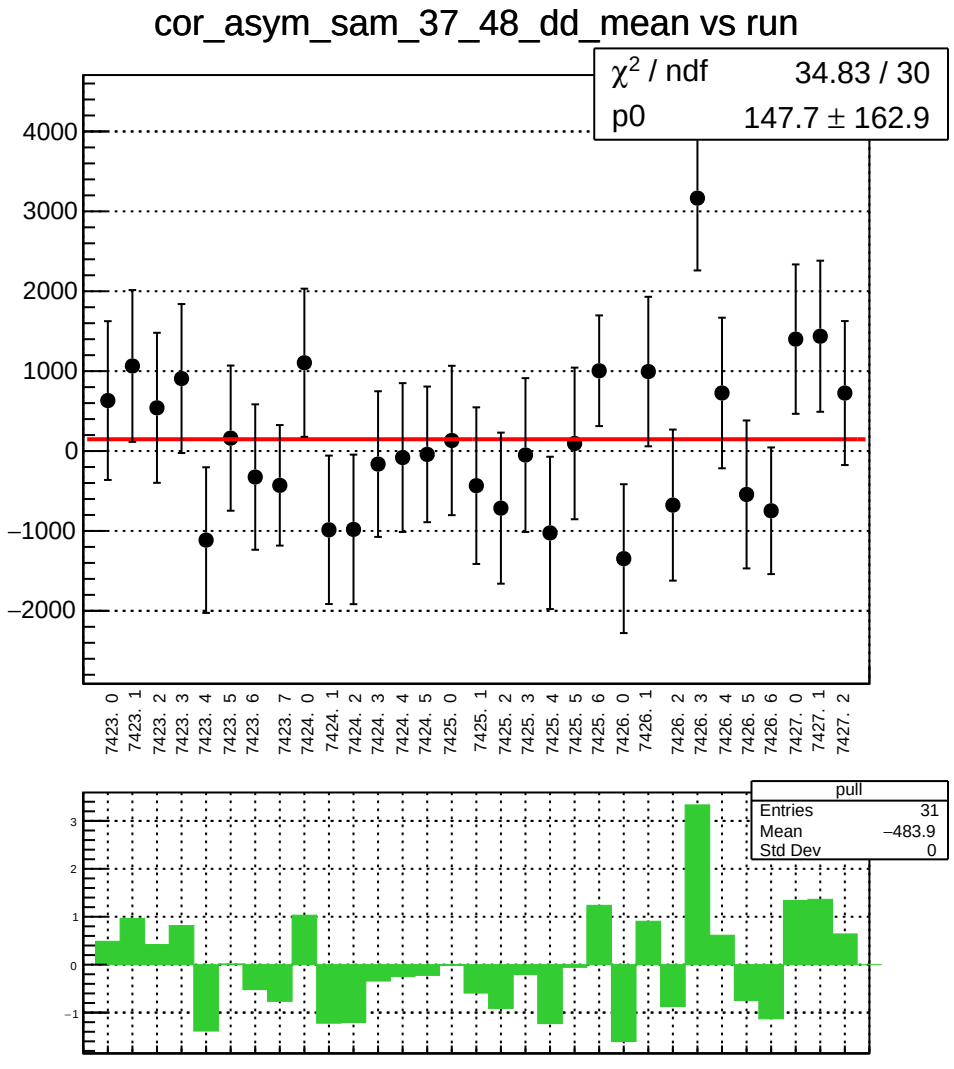

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 34.84 / 30
p0 147.7 ± 162.9
4000
3000
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −483.5
Std Dev 0
3
2
1
0
−1
pull1D
Entries 31
Mean −0.003214
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

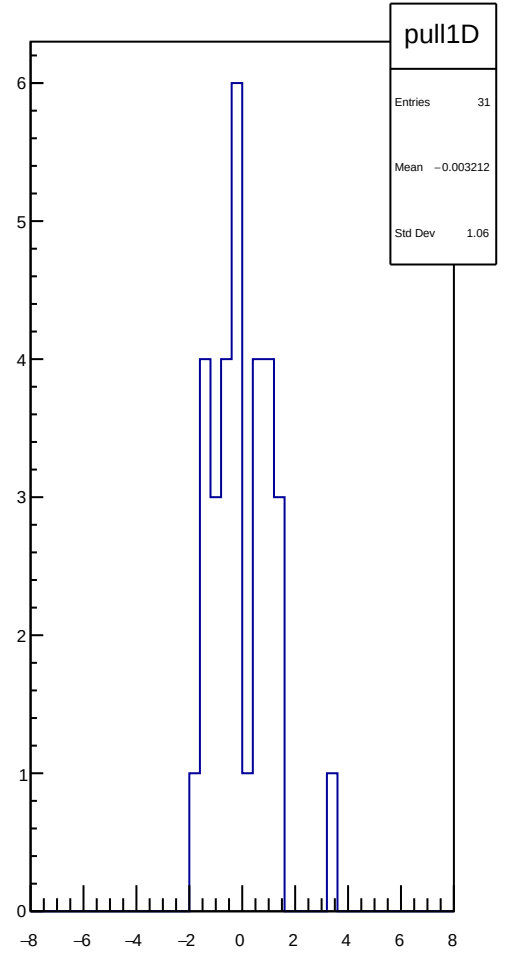

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 315.8 / 30
p0 88.86 ± 0.1152
96
94
92
90
88
86
84
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

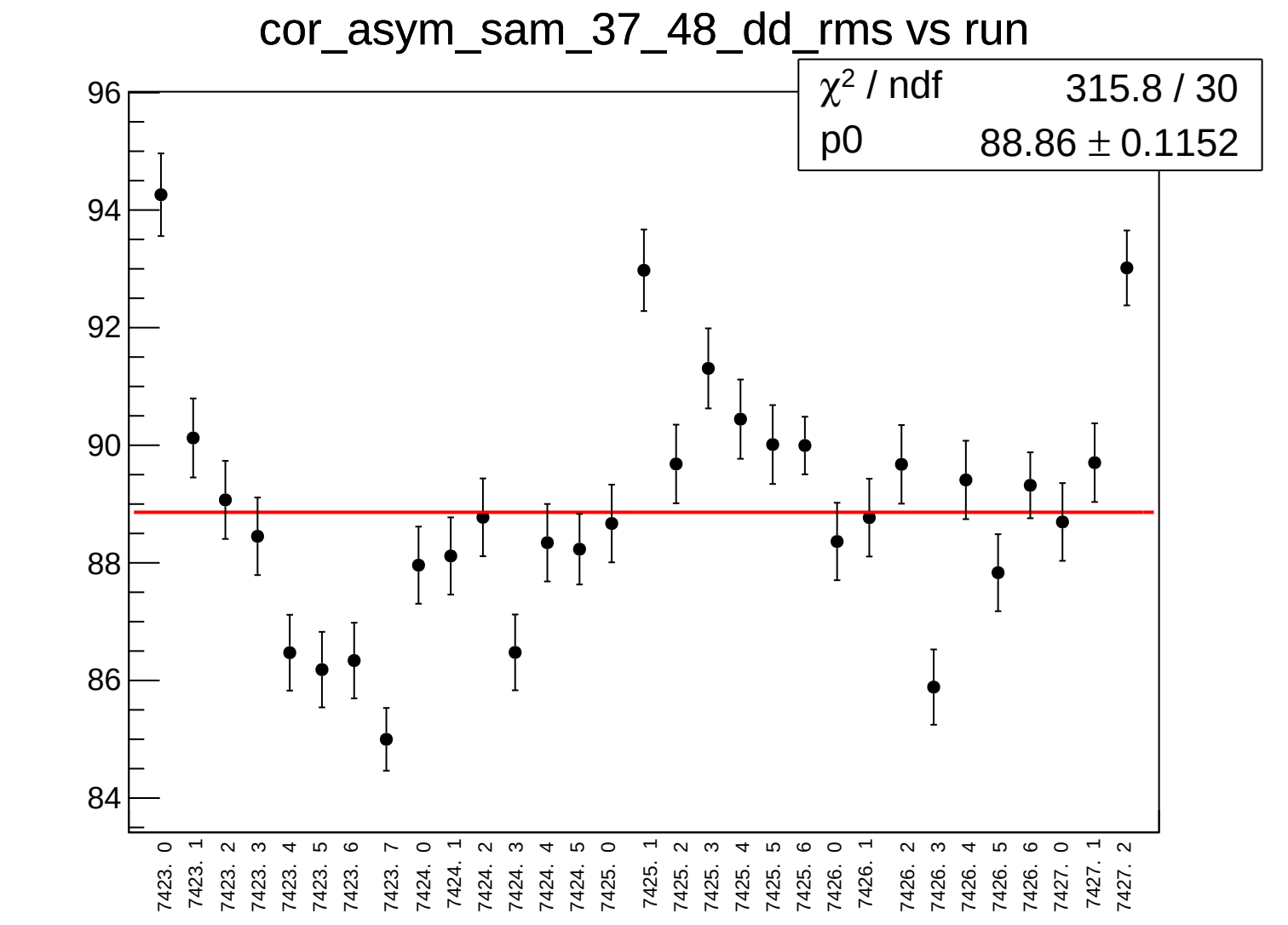

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 26.56 / 30
p0 −719.1± 717.3
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −221.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

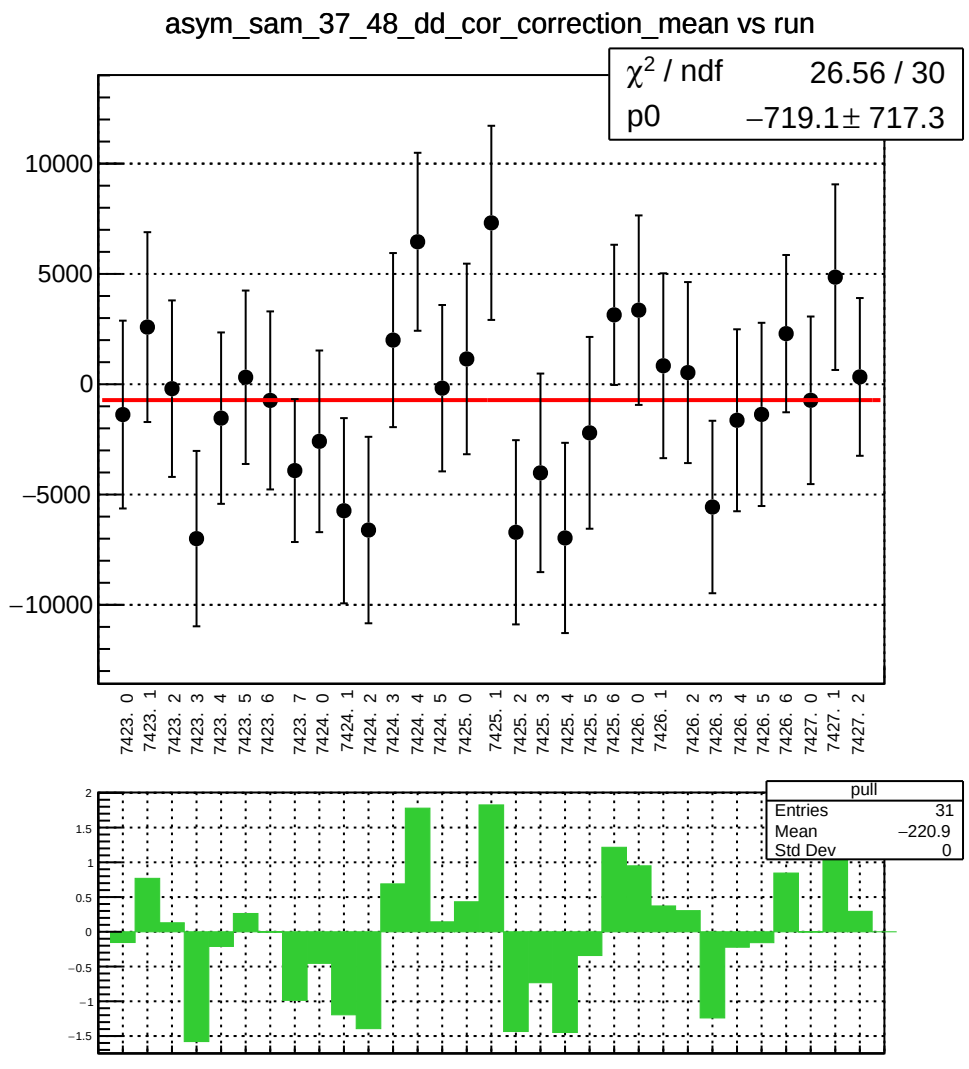

pull1D
Entries 31
Mean −0.006964
Std Dev 0.9256
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

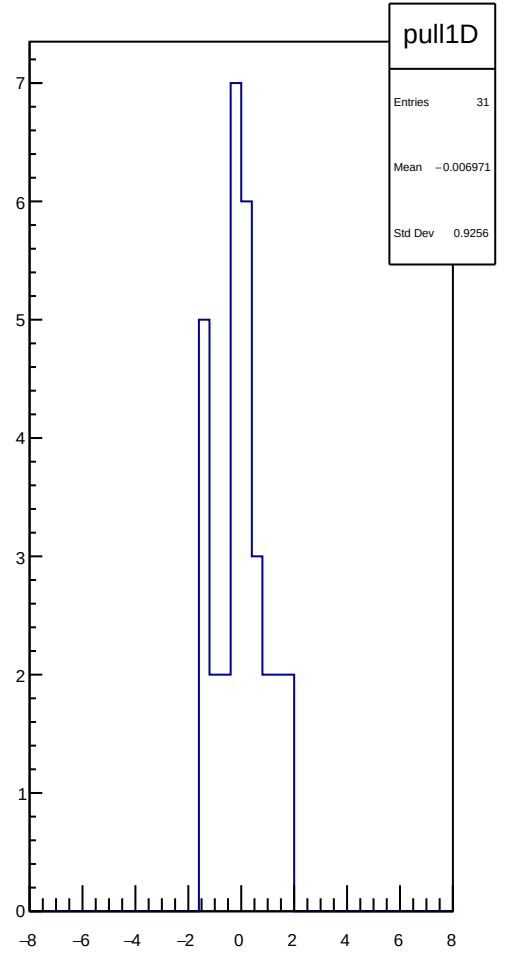

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1138 / 30
p0 391 ± 0.5072
430
420
410
400
390
380
370
360
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

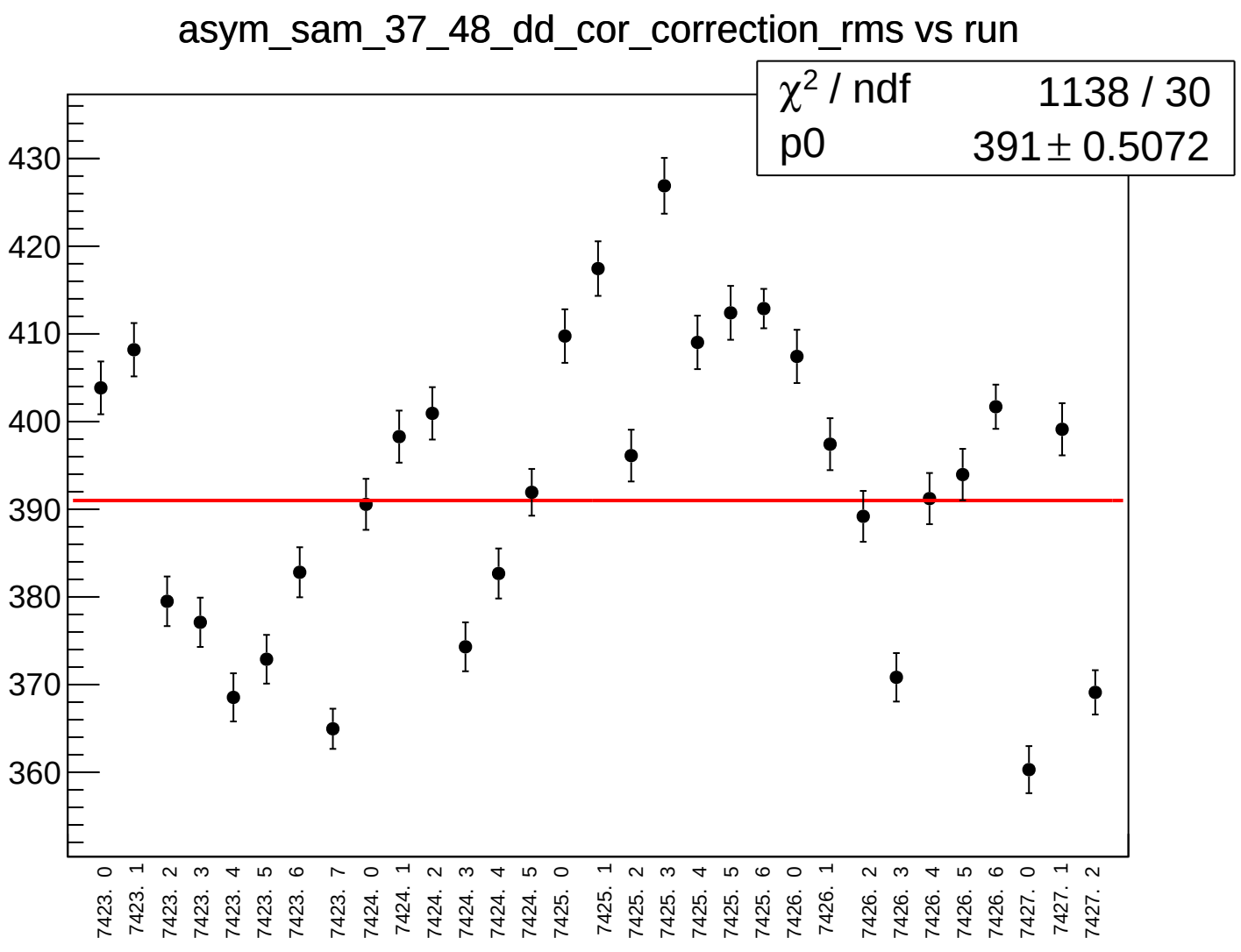

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 34.83 / 30
p0 147.7 ± 162.9
4000
3000
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −483.9
Std Dev 0
3
2
1
0
−1

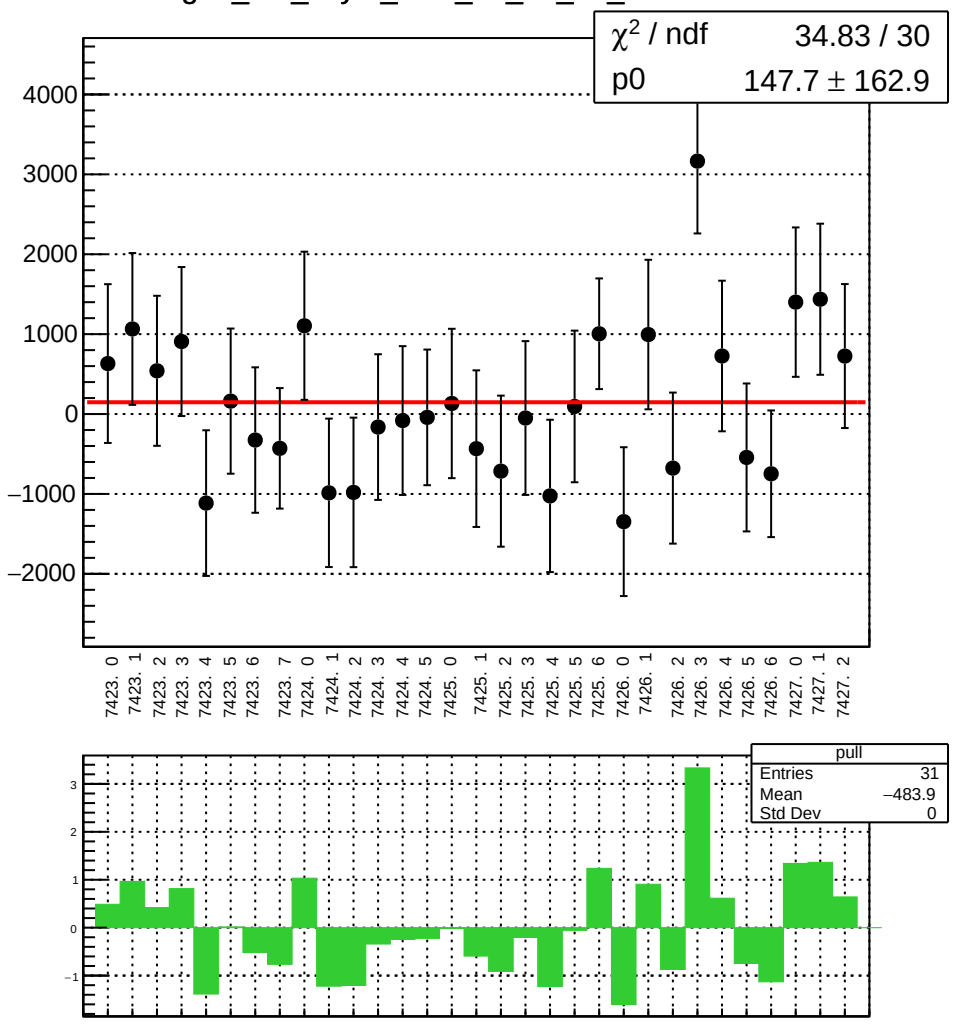

pull1D
Entries 31
Mean −0.003212
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

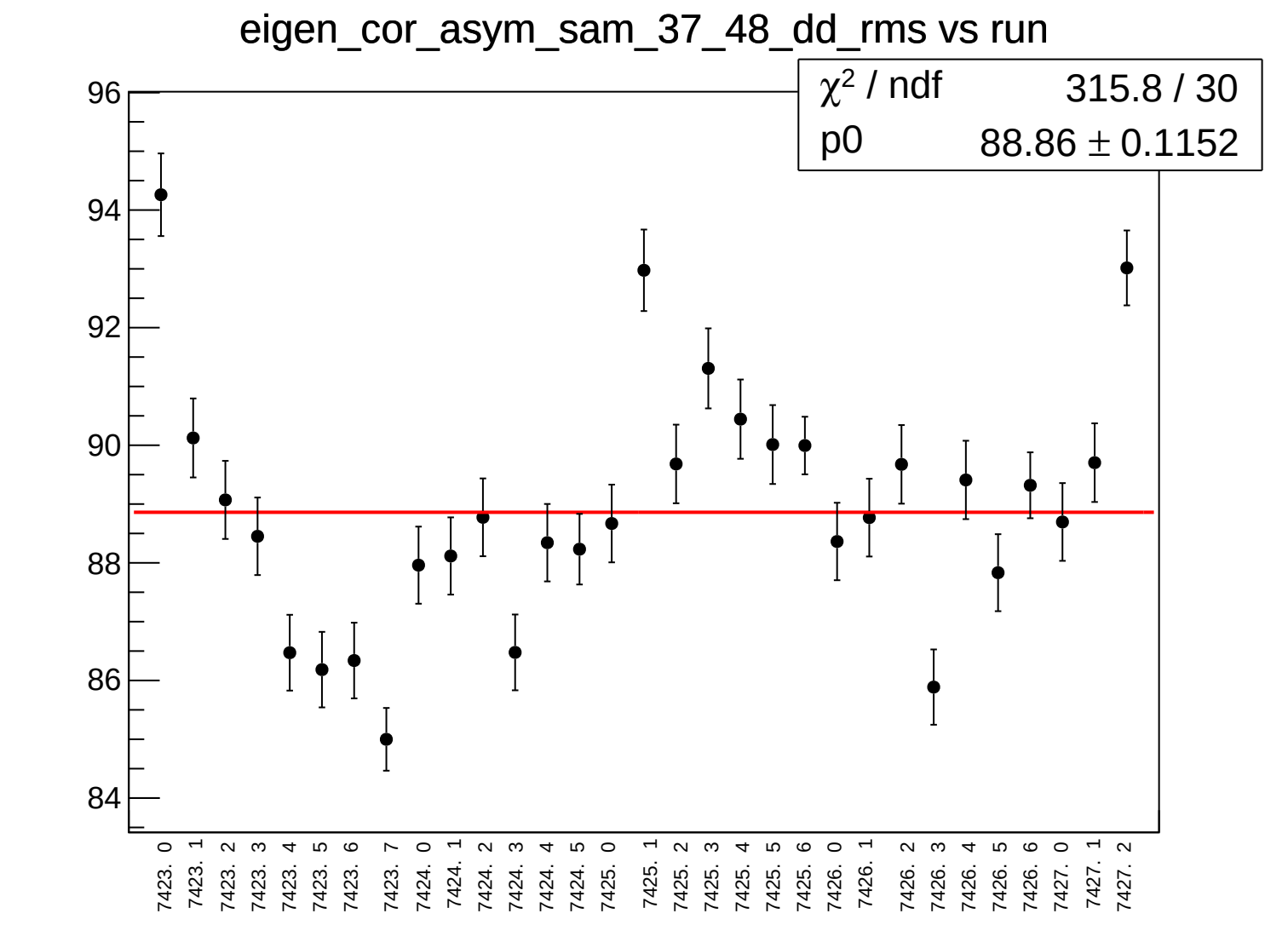

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 315.8 / 30
p0 88.86 ± 0.1152
96
94
92
90
88
86
84
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

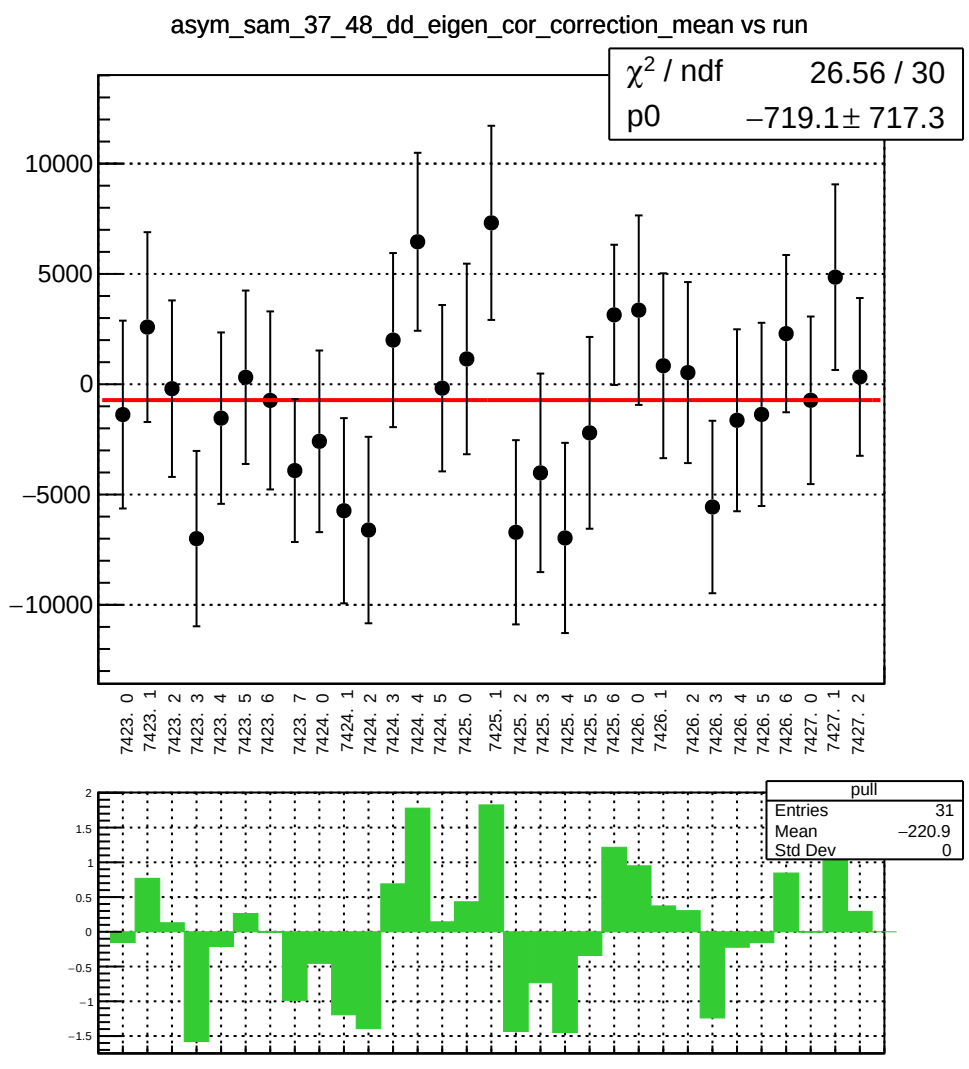

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 26.56 / 30
p0 −719.1± 717.3
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −220.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

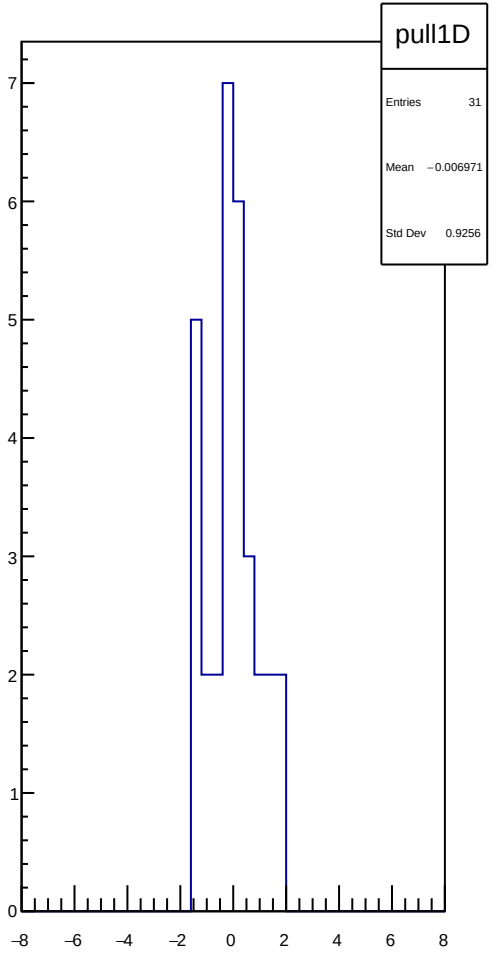

pull1D
Entries 31
Mean −0.006971
Std Dev 0.9256
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

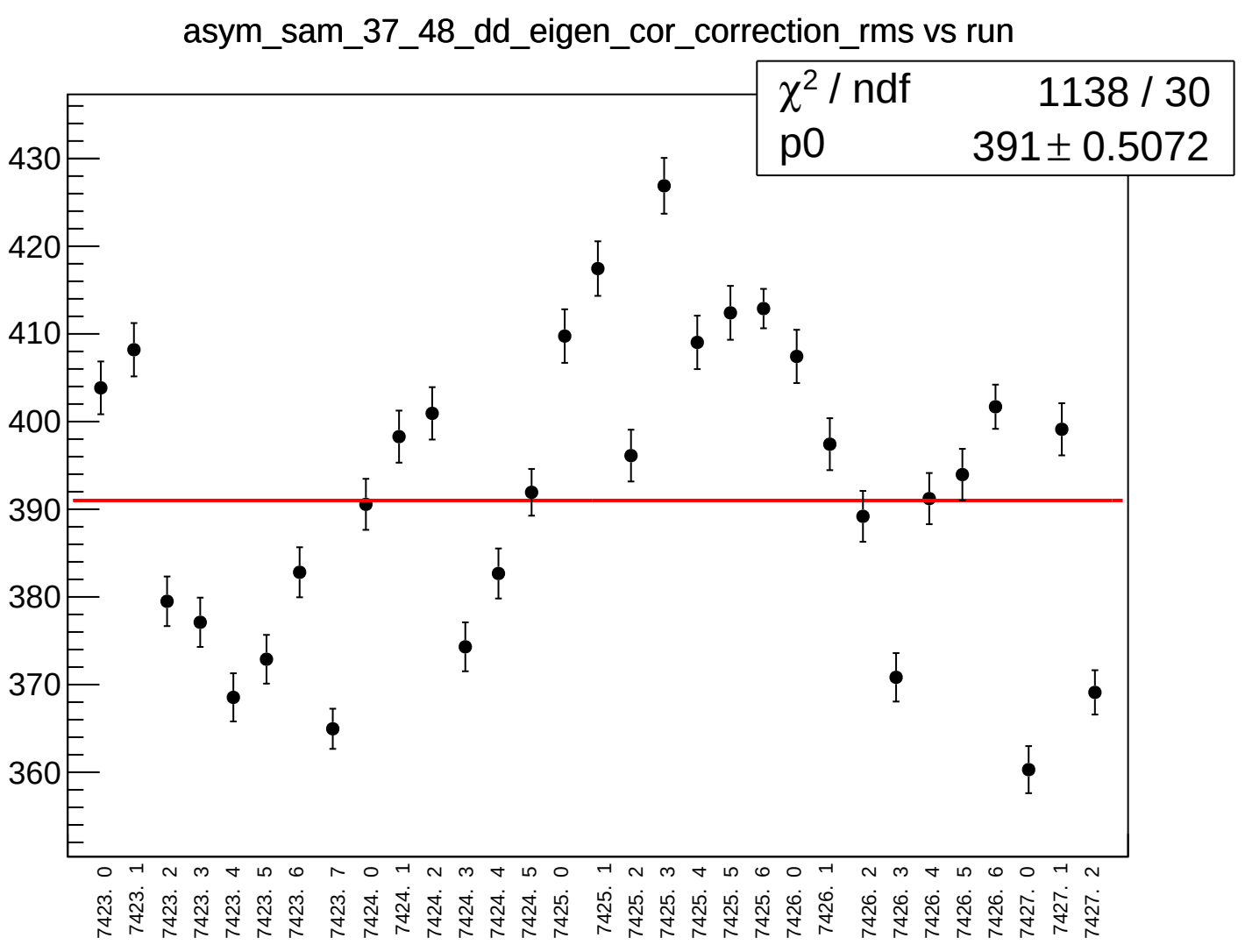

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1138 / 30
p0 391 ± 0.5072
430
420
410
400
390
380
370
360
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

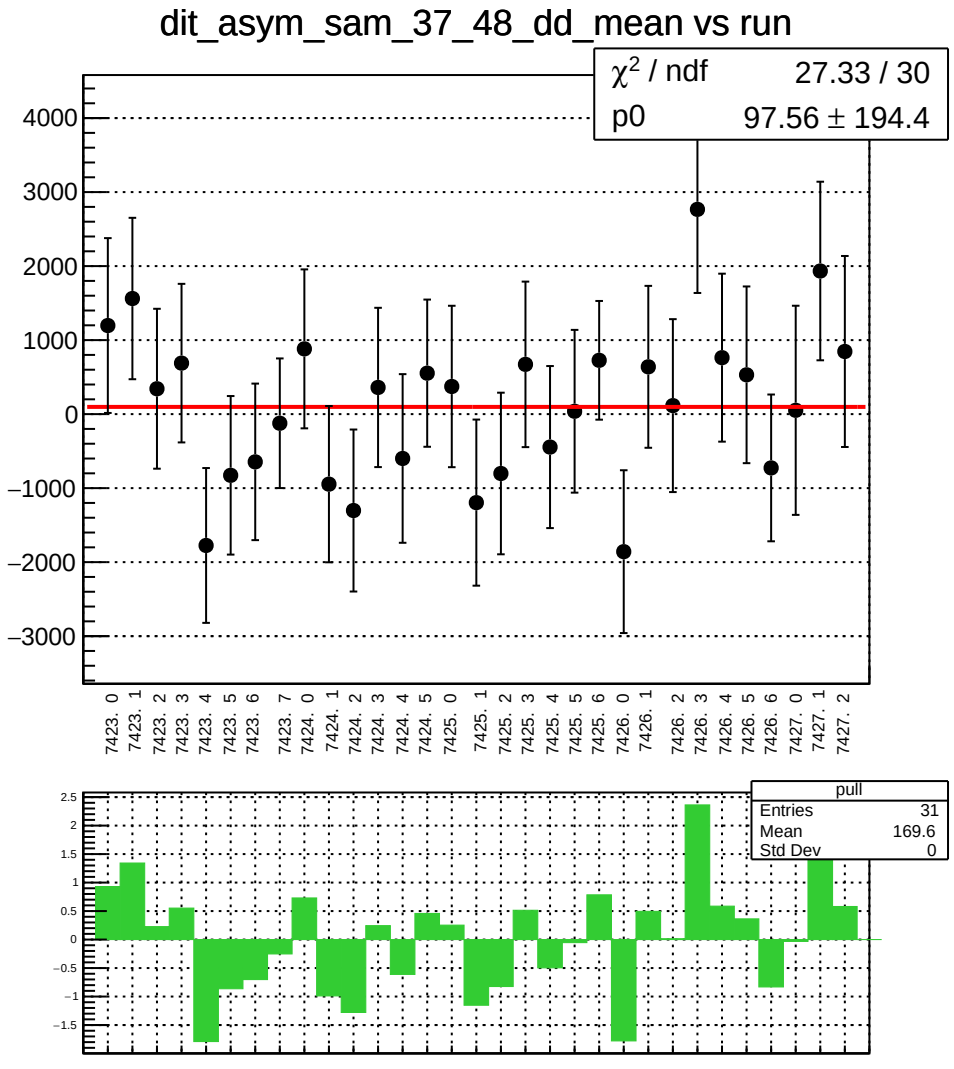

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 34.83 / 30
p0 147.7 ± 162.9
4000
3000
2000
1000
0
−1000
−2000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −483.9
Std Dev 0
3
2
1
0
−1
pull1D
Entries 31
Mean −0.003212
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

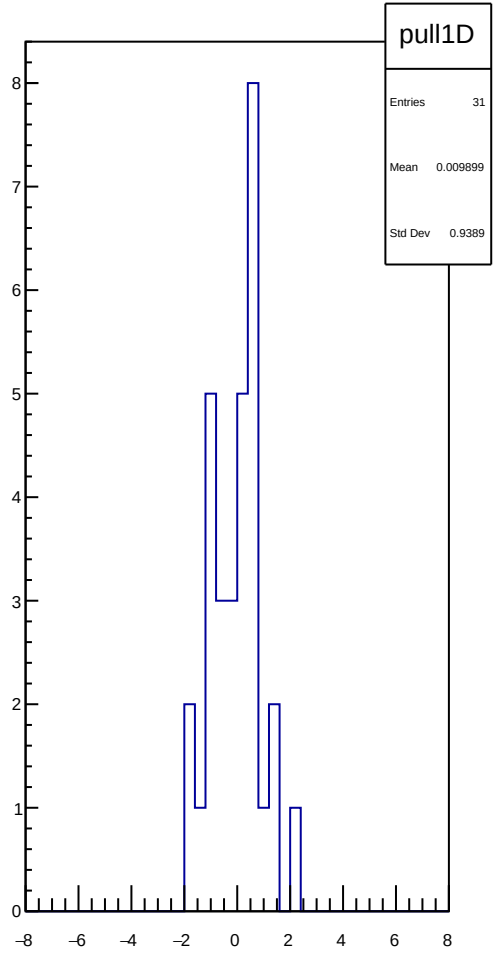

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 315.8 / 30
p0 88.86 ± 0.1152
96
94
92
90
88
86
84
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

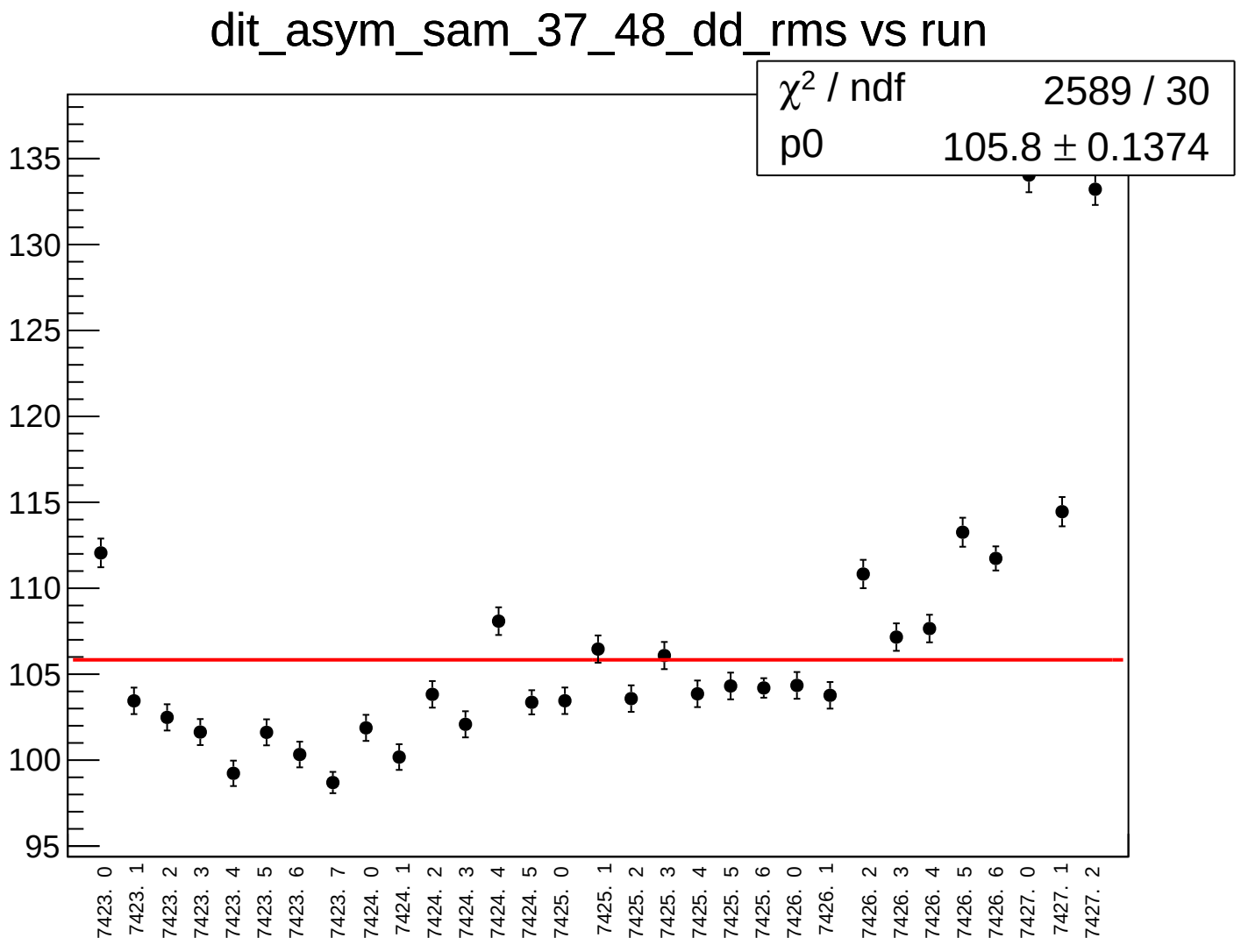

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 26.56 / 30
p0 −719.1± 717.3
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −220.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

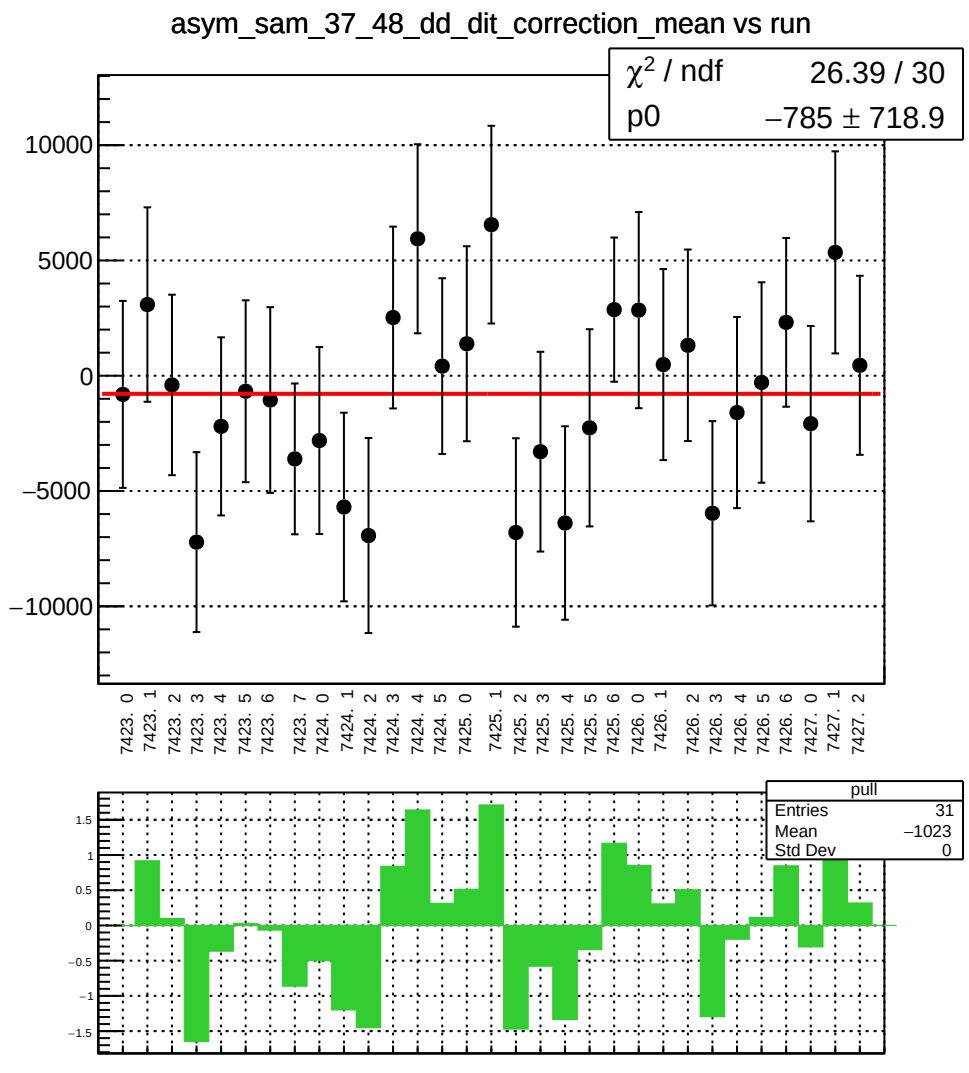

pull1D
Entries 31
Mean −0.006971
Std Dev 0.9256
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

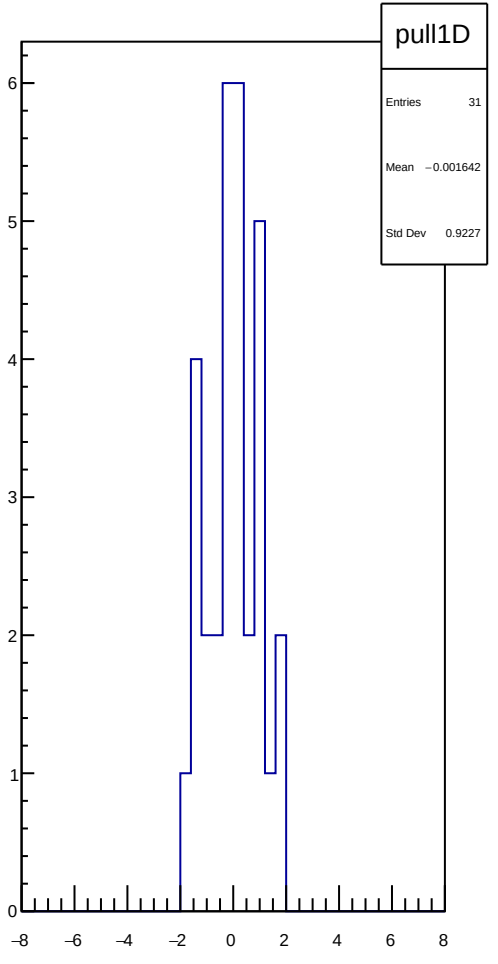

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1138 / 30
p0 391 ± 0.5072
430
420
410
400
390
380
370
360
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

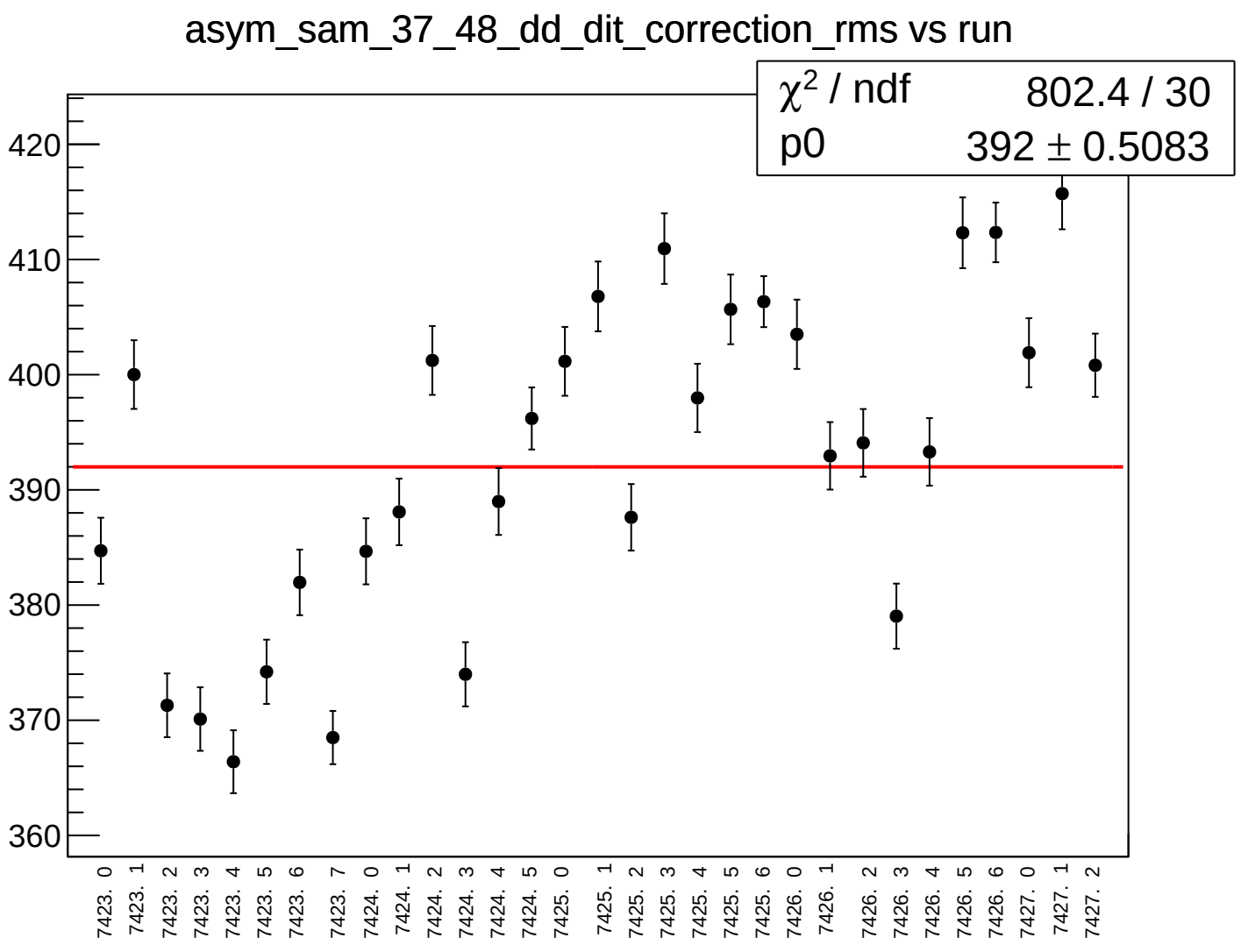

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 27.33 / 30
p0 97.56 ± 194.4
4000
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 169.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

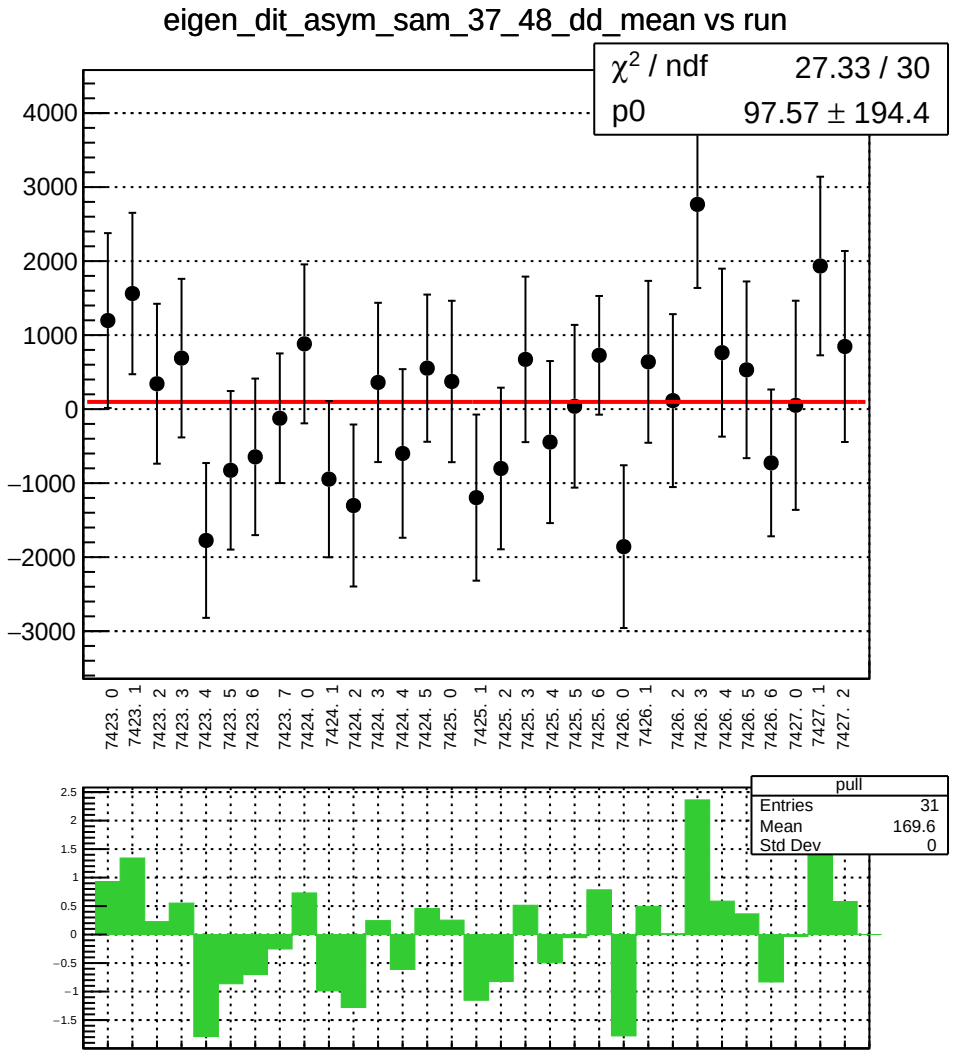

pull1D
Entries 31
Mean 0.009899
Std Dev 0.9389
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

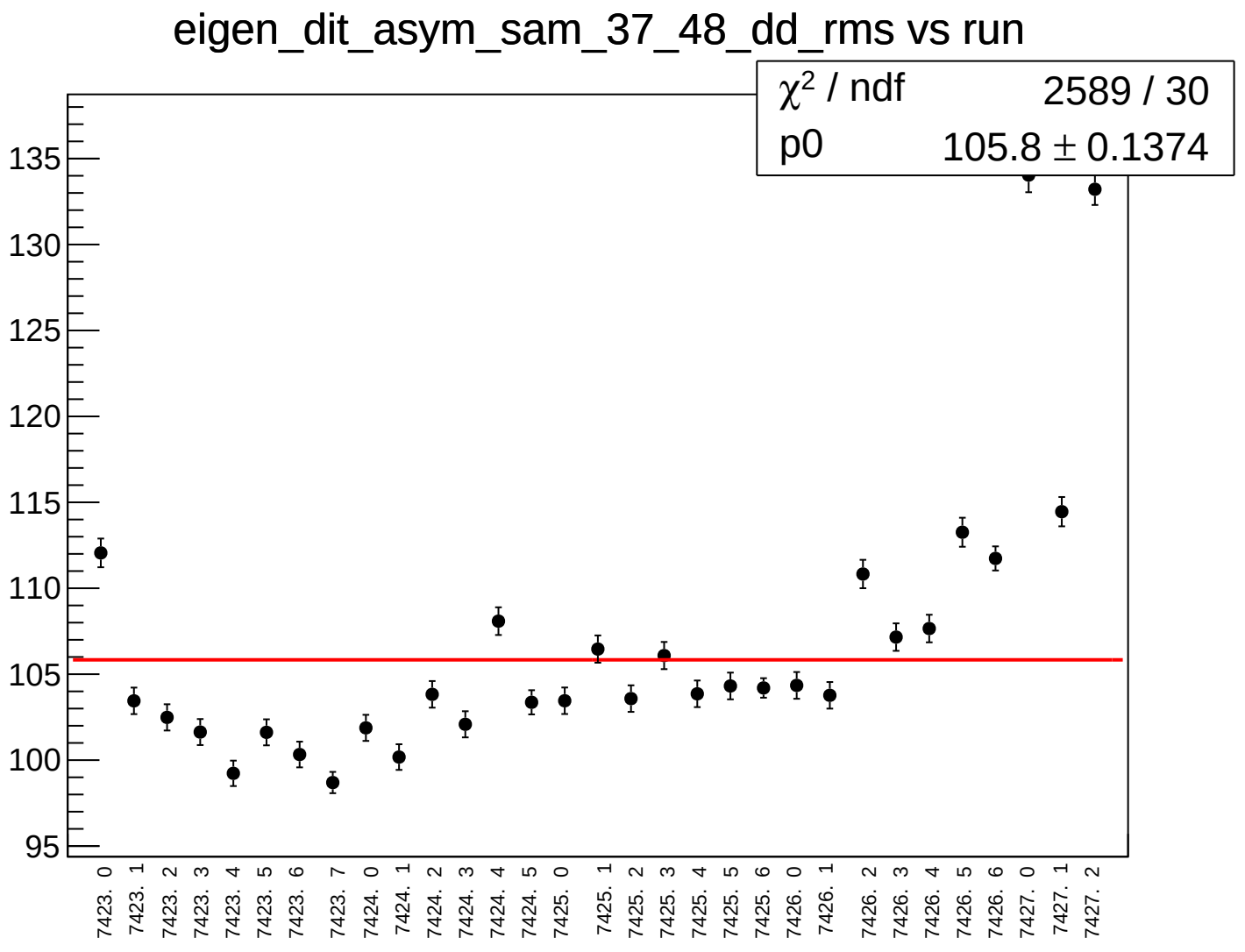

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2589 / 30
p0 105.8 ± 0.1374
135
130
125
120
115
110
105
100
95
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

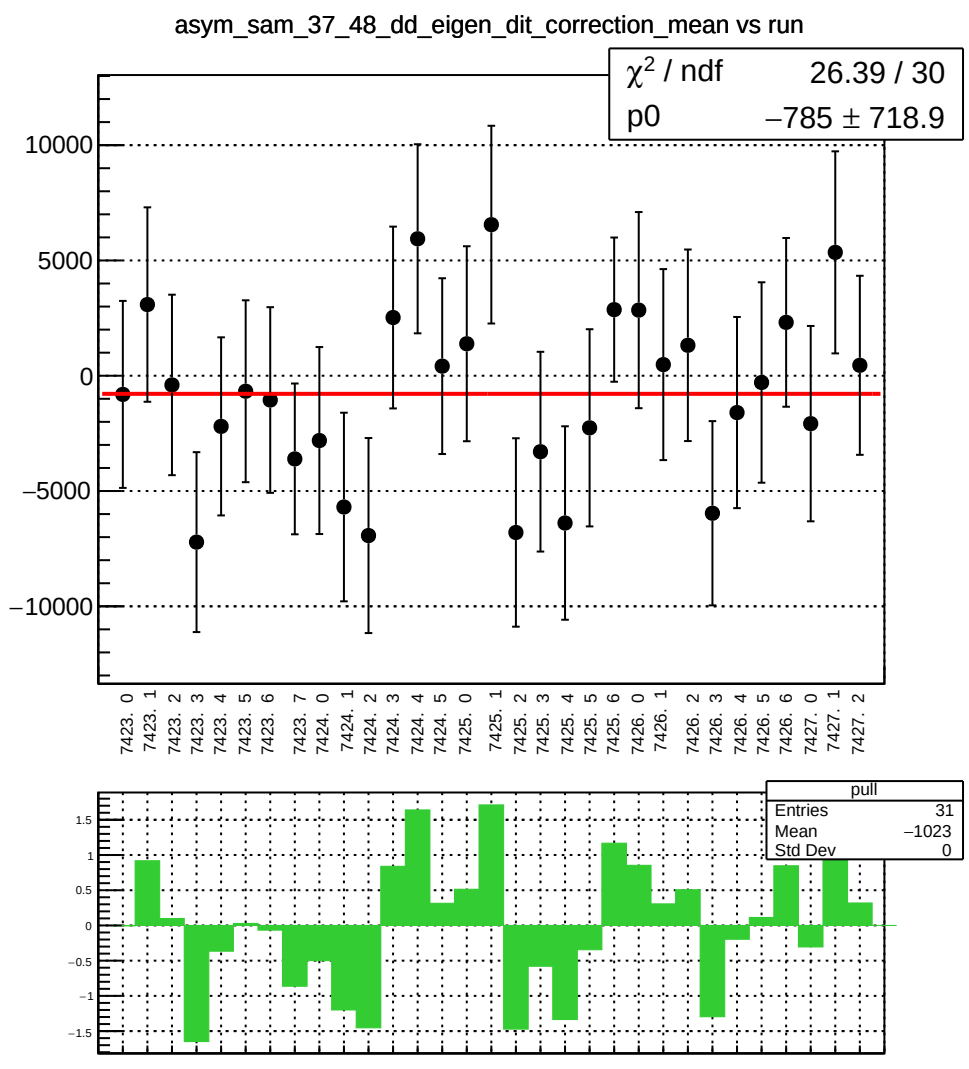

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 26.39 / 30
p0 −785 ± 718.9
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1023
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

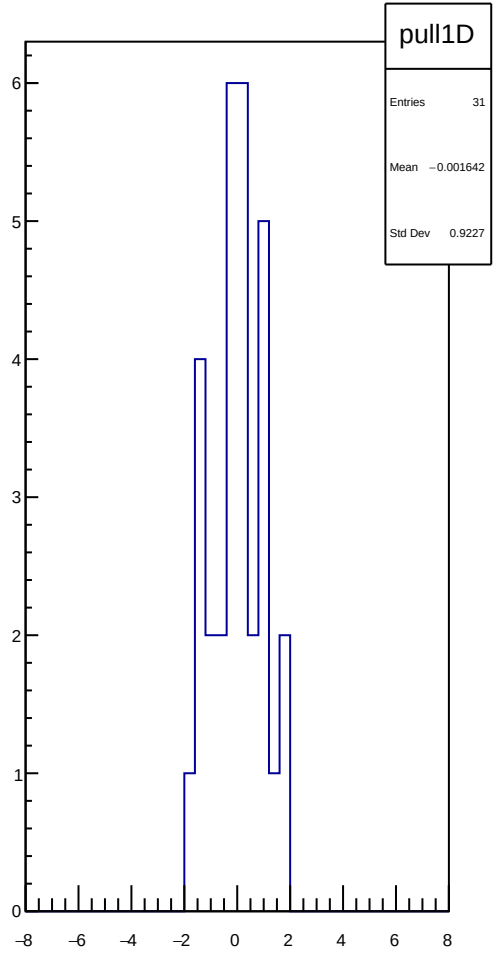

pull1D
Entries 31
Mean −0.001642
Std Dev 0.9227
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

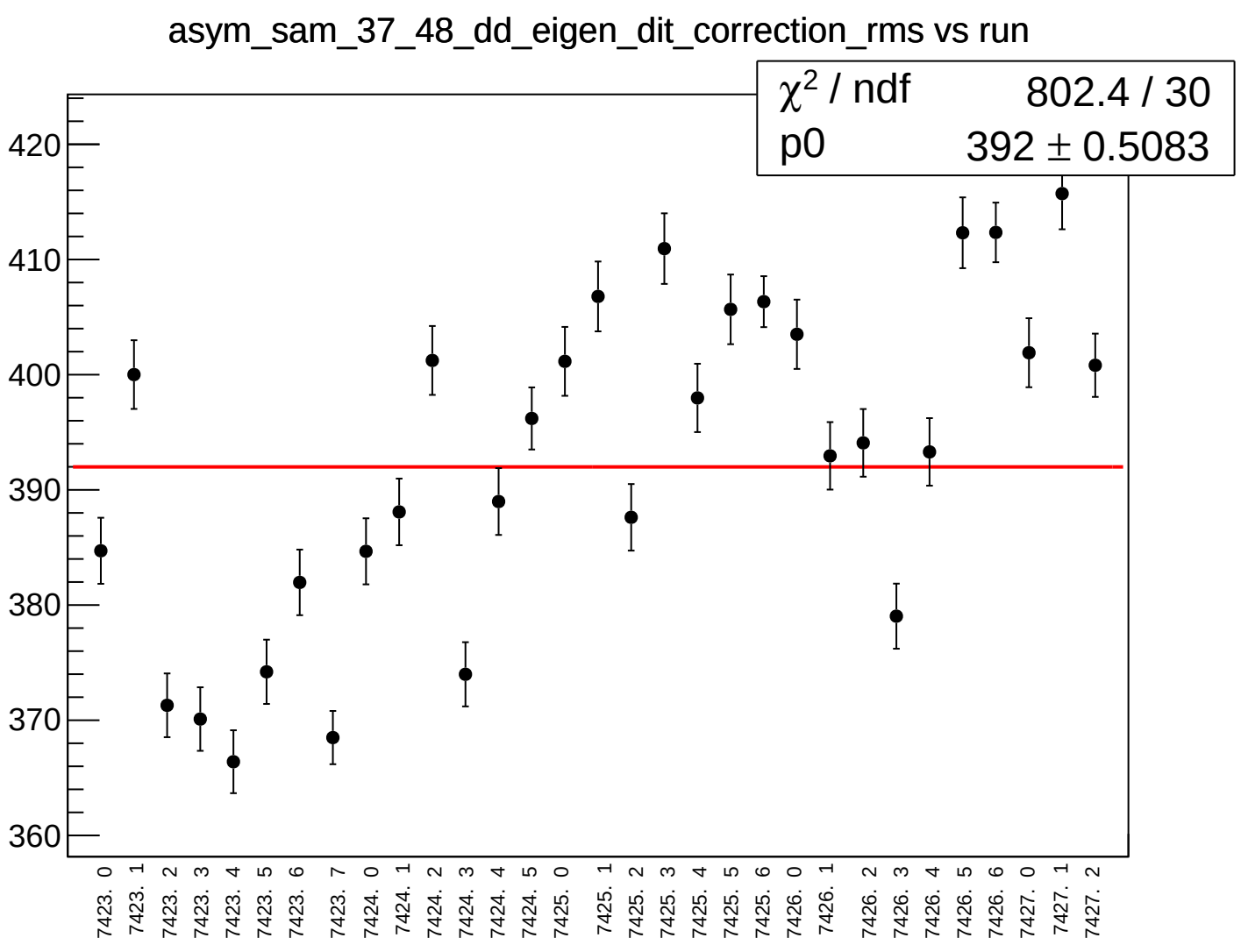

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 802.4 / 30
p0 392 ± 0.5083
420
410
400
390
380
370
360
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

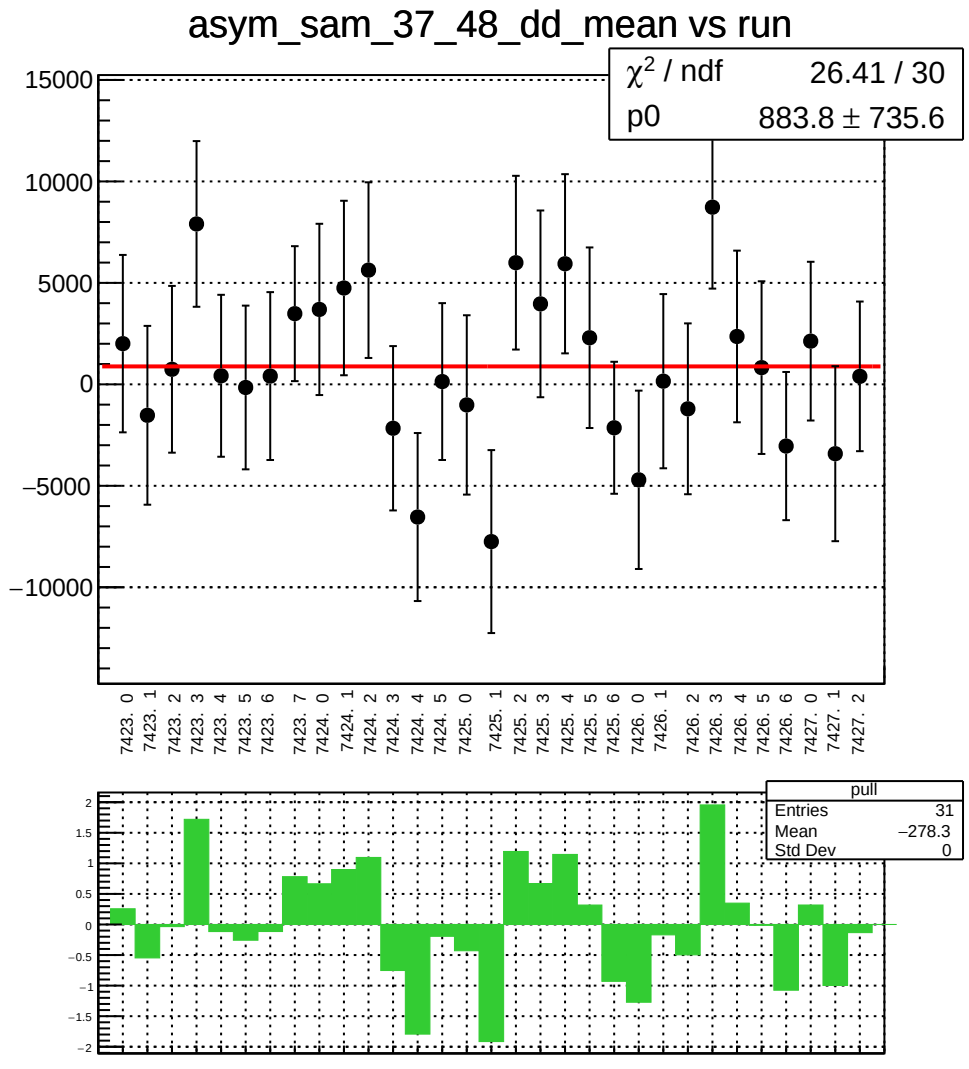

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 27.33 / 30
p0 97.57 ± 194.4
4000
3000
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 169.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.009898
Std Dev 0.9389
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

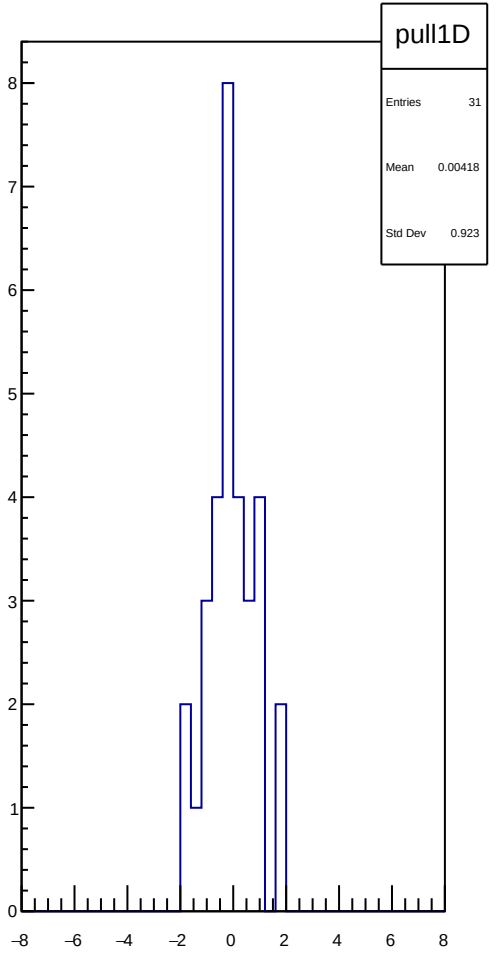

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2589 / 30
p0 105.8 ± 0.1374
135
130
125
120
115
110
105
100
95
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

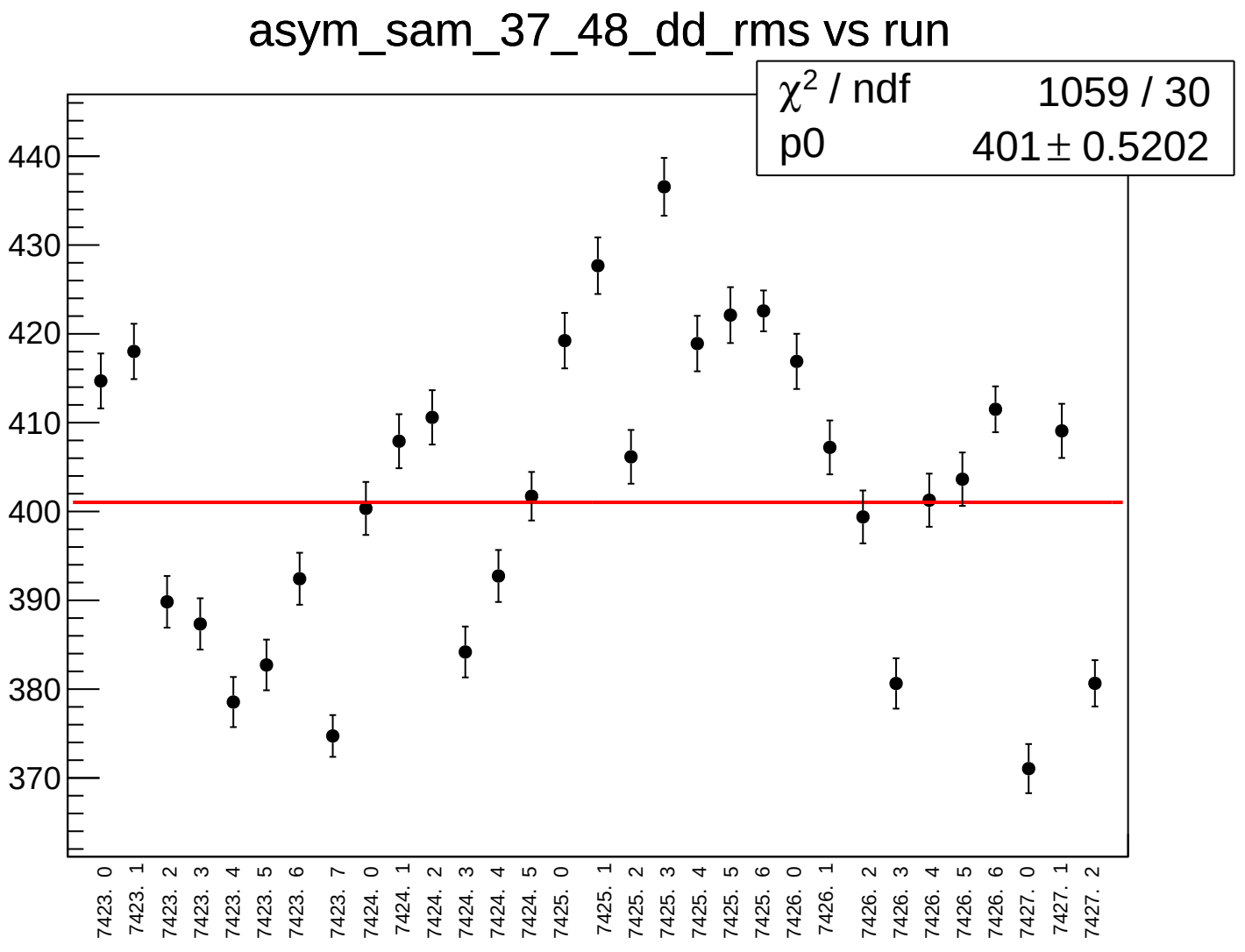

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 26.39 / 30
p0 −785 ± 718.9
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1023
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

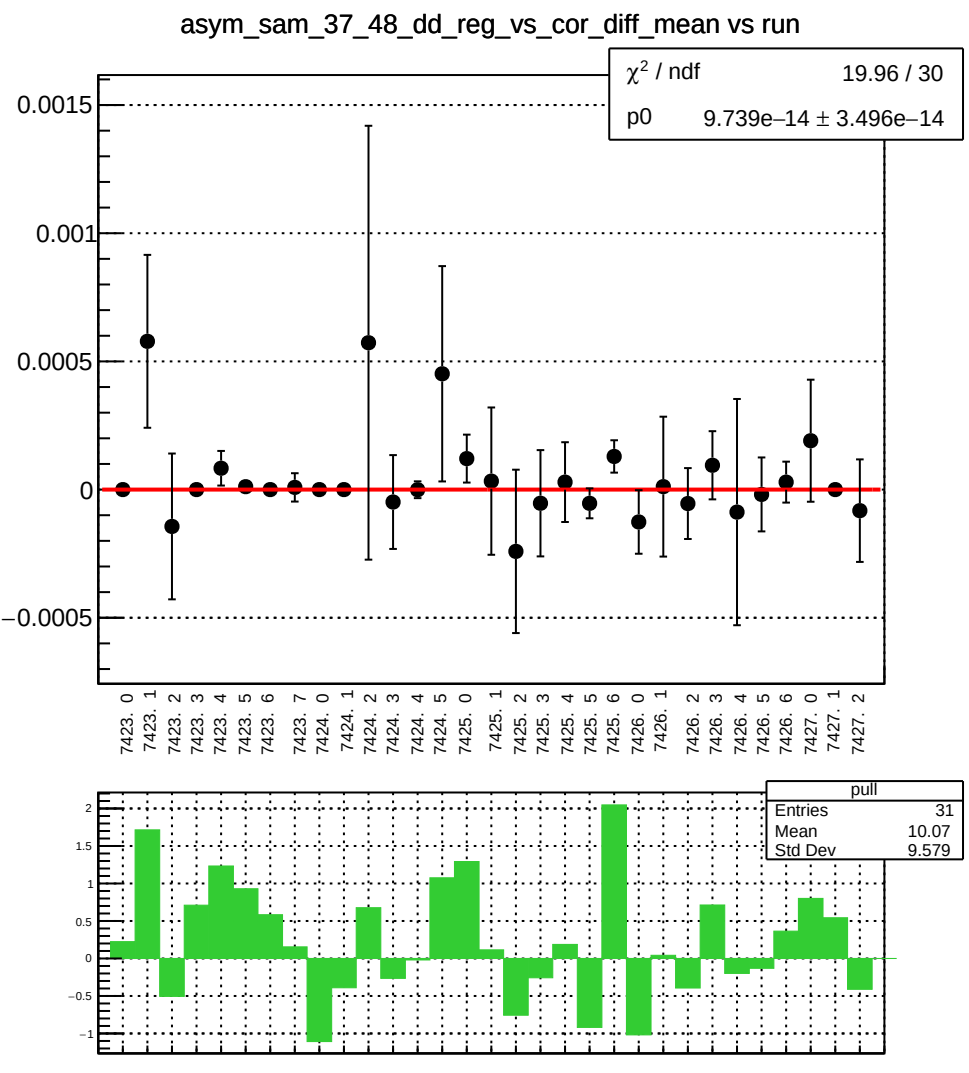

pull1D
Entries 31
Mean −0.001642
Std Dev 0.9227
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

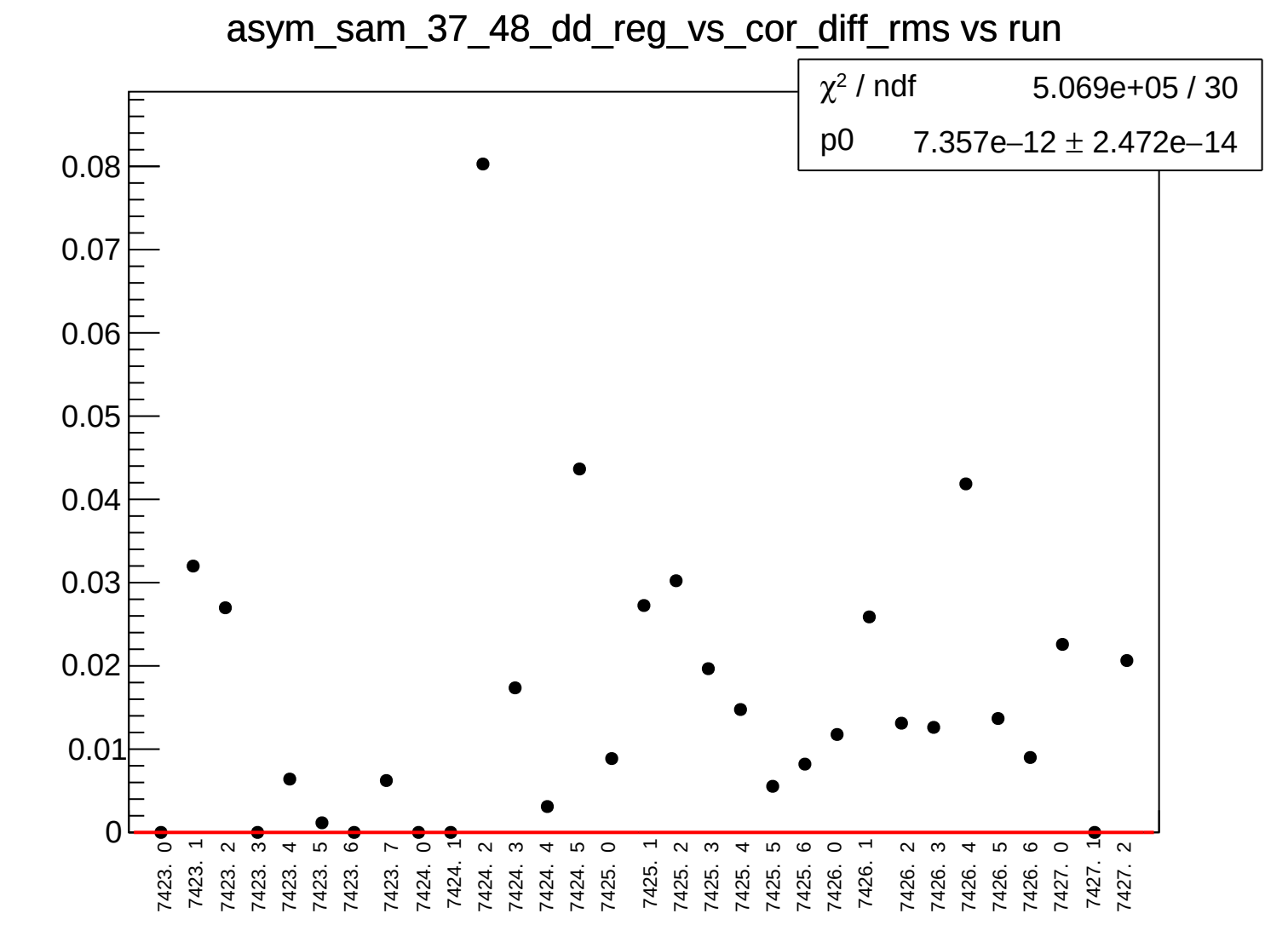

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 802.4 / 30
p0 392 ± 0.5083
420
410
400
390
380
370
360
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

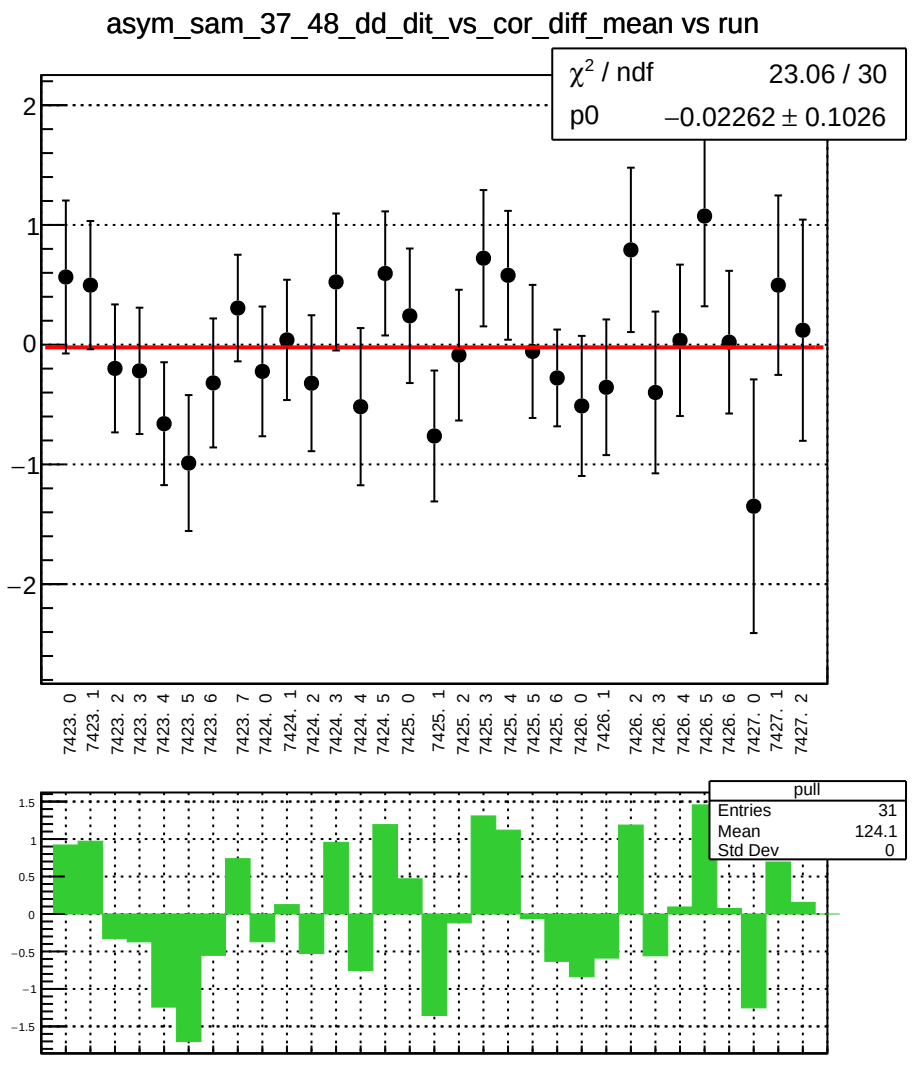

asym_sam_37_48_dd_mean vs run
χ² / ndf 26.41 / 30
p0 883.8 ± 735.6
15000
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −278.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

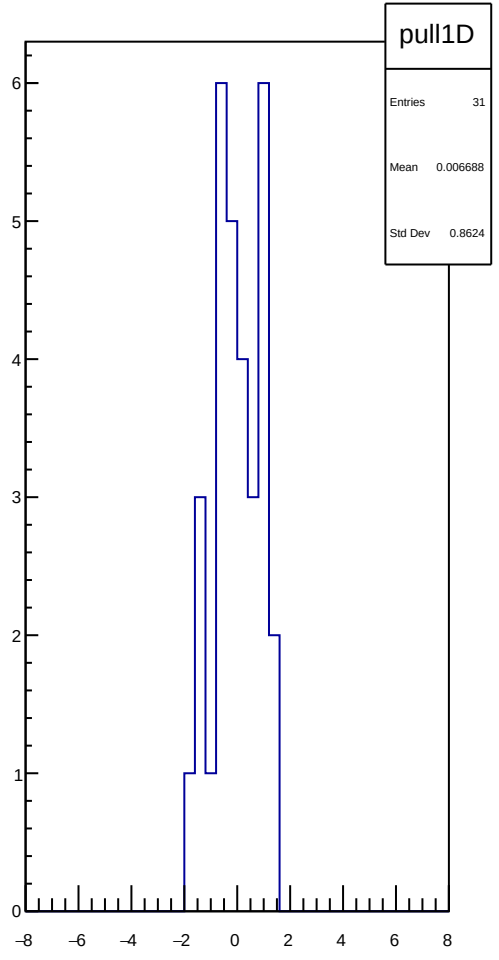

pull1D
Entries 31
Mean 0.00418
Std Dev 0.923
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

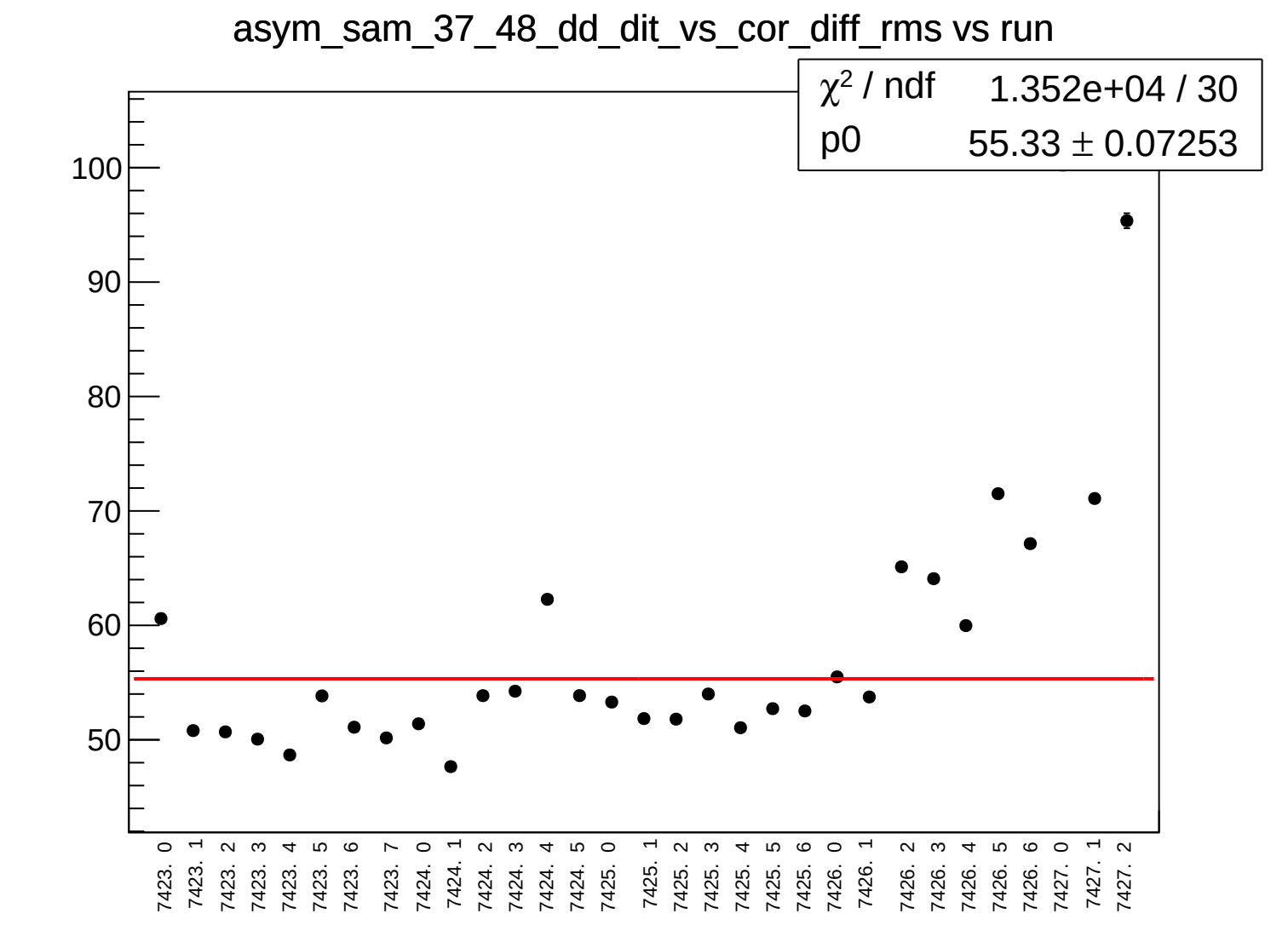

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1059 / 30
p0 401 ± 0.5202
440
430
420
410
400
390
380
370
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

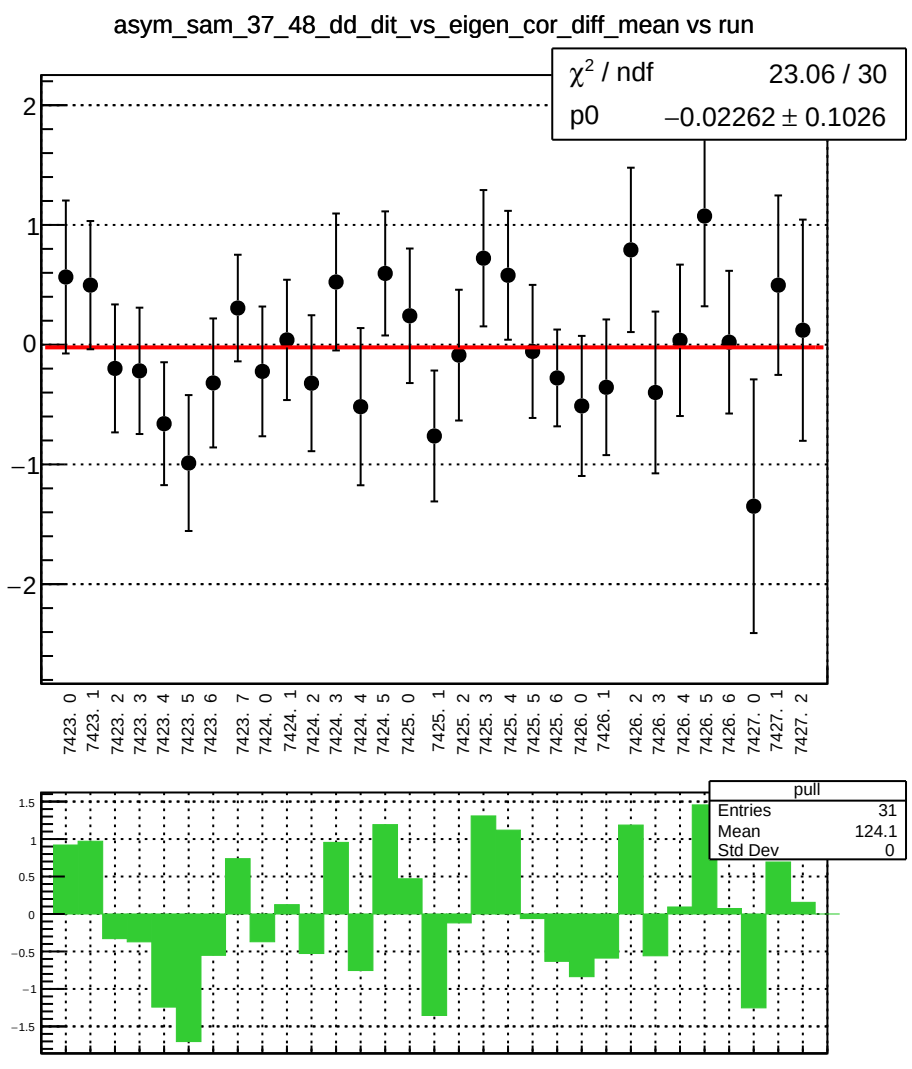

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 19.96 / 30
p0 9.739e−14 ± 3.496e−14
0.0015
0.001
0.0005
0
−0.0005
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 10.07
Std Dev 9.579
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.2269
Std Dev 0.7696
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

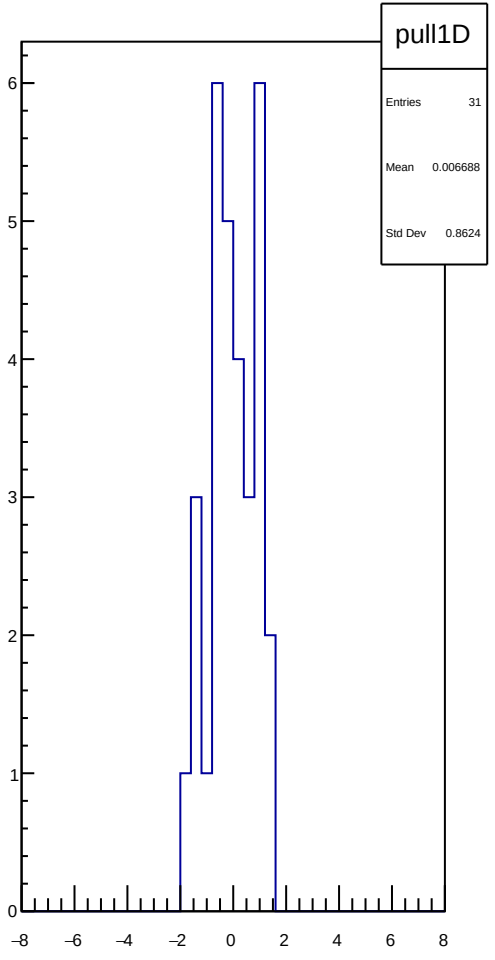

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.069e+05 / 30
p0 7.357e−12 ± 2.472e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

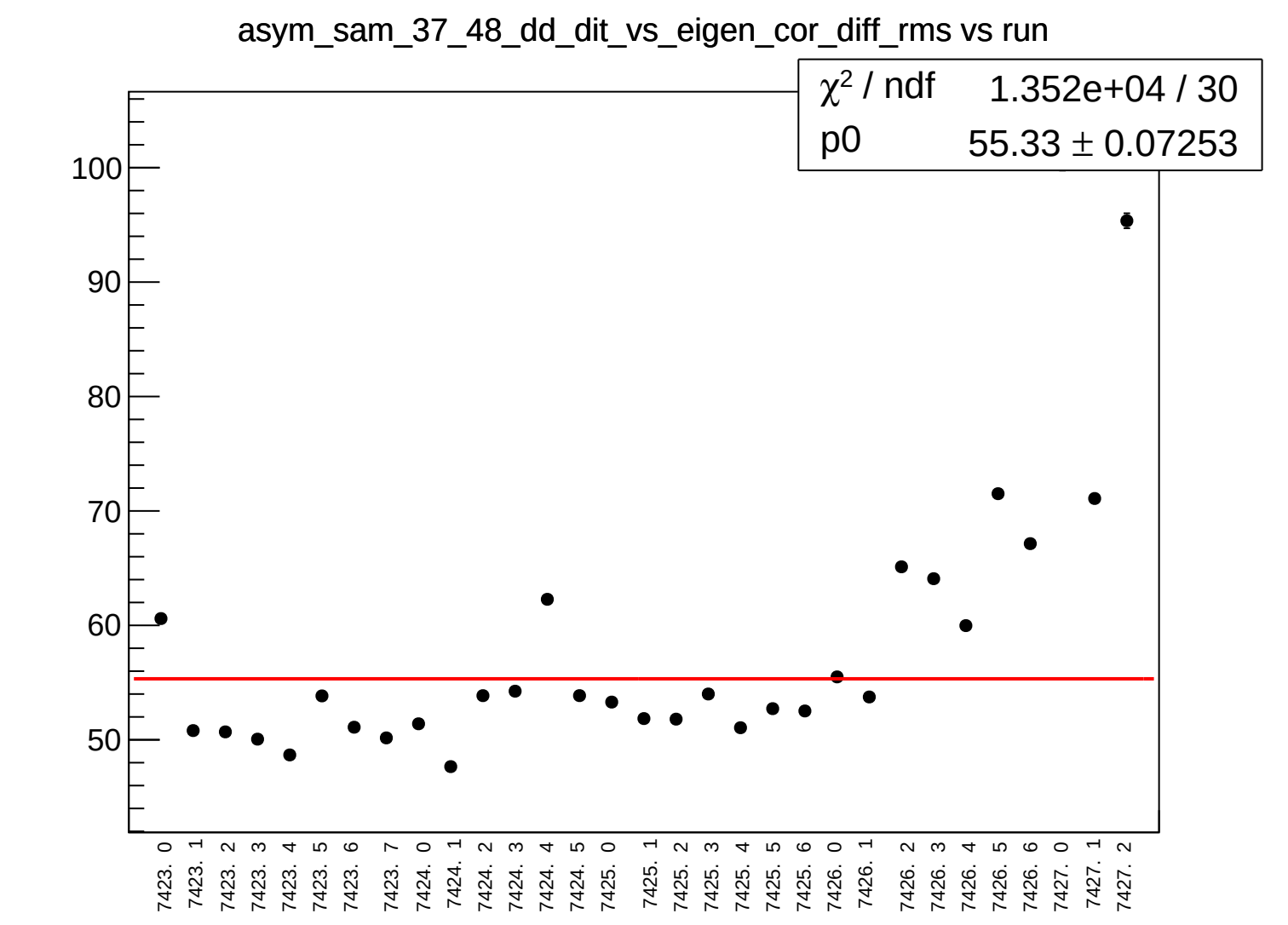

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 23.06 / 30
p0 −0.02262 ± 0.1026
pull
Entries 31
Mean 124.1
Std Dev 0

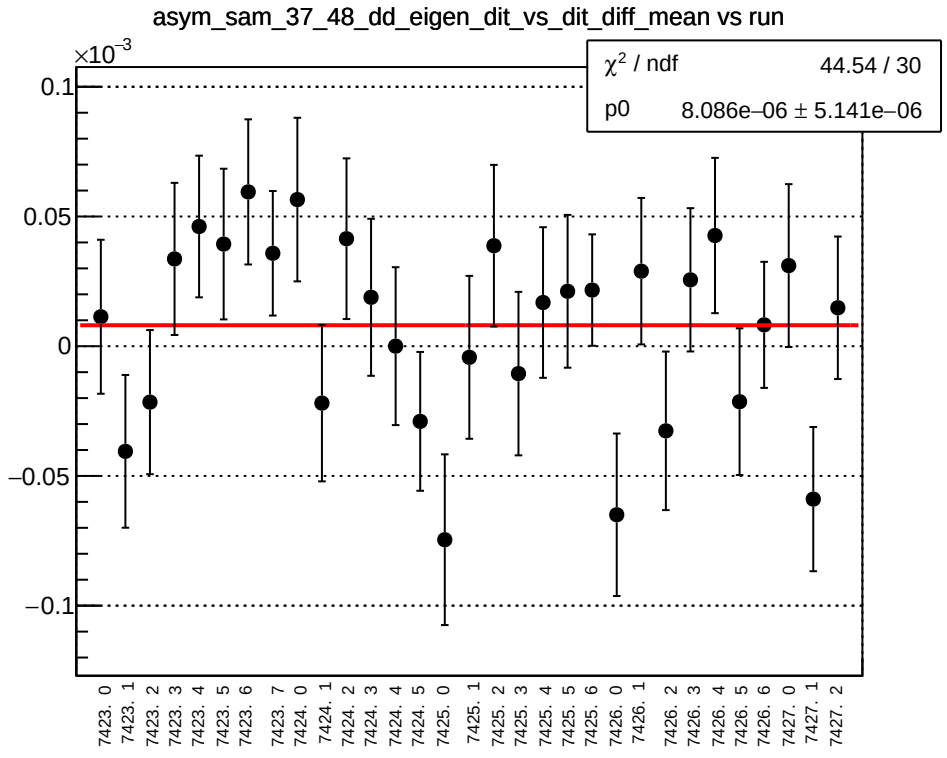

pull1D
Entries 31
Mean 0.006688
Std Dev 0.8624

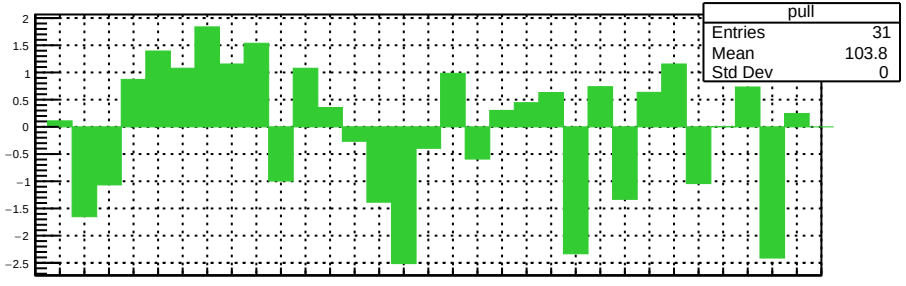

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.352e+04 / 30
p0 55.33 ± 0.07253
100
90
80
70
60
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

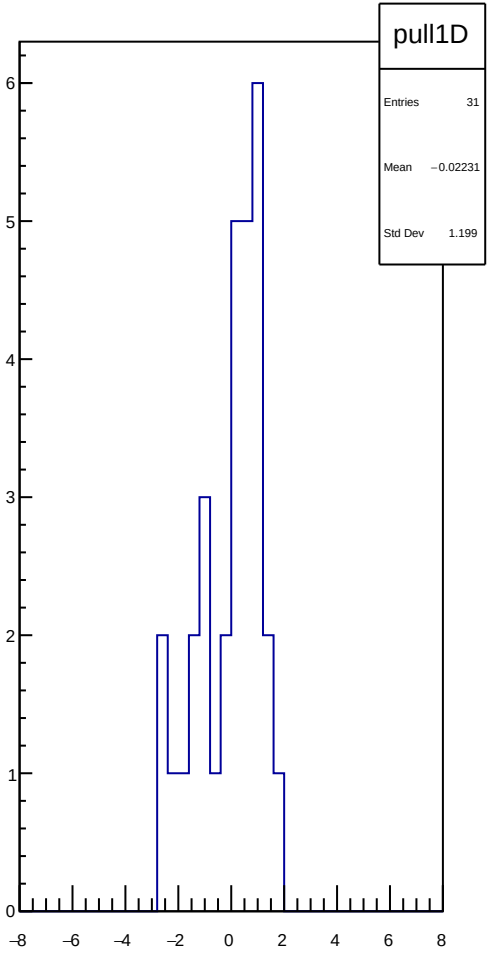

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.06 / 30
p0 −0.02262 ± 0.1026
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

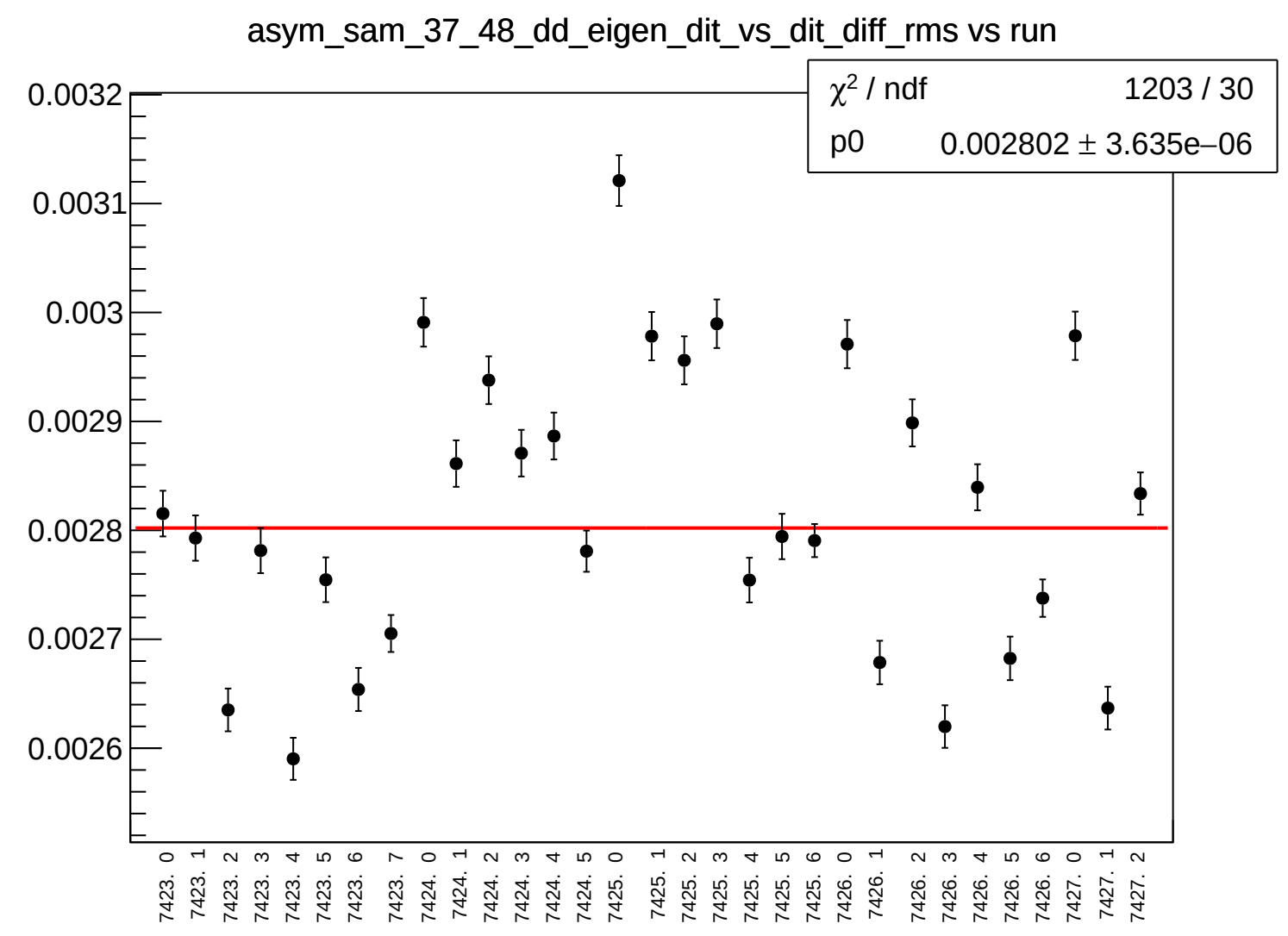

pull1D
Entries 31
Mean 0.006688
Std Dev 0.8624
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.352e+04 / 30
p0 55.33 ± 0.07253
100
90
80
70
60
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

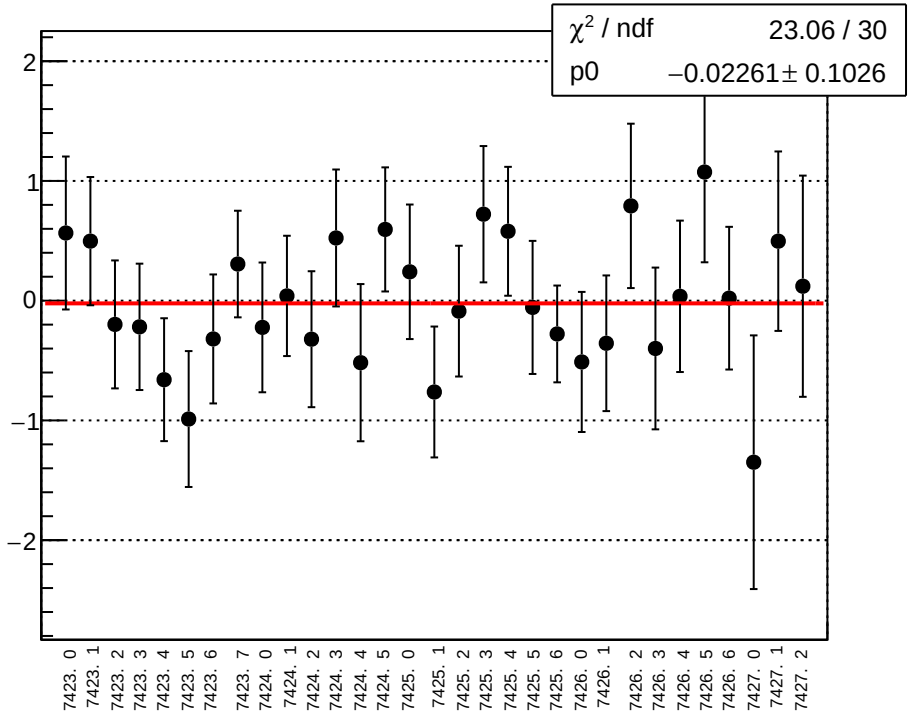

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 44.54 / 30
p0 8.086e−06 ± 5.141e−06
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

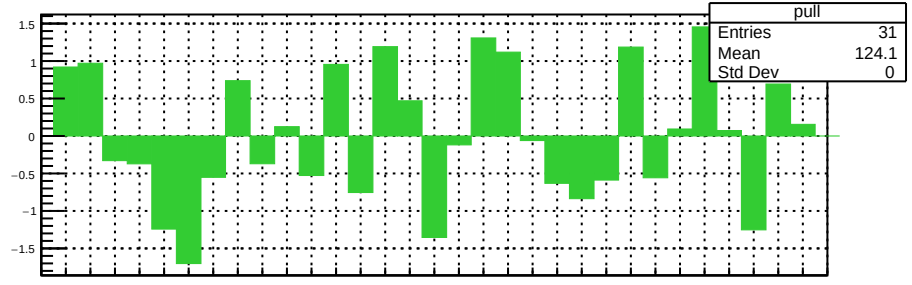

pull
Entries 31
Mean 103.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

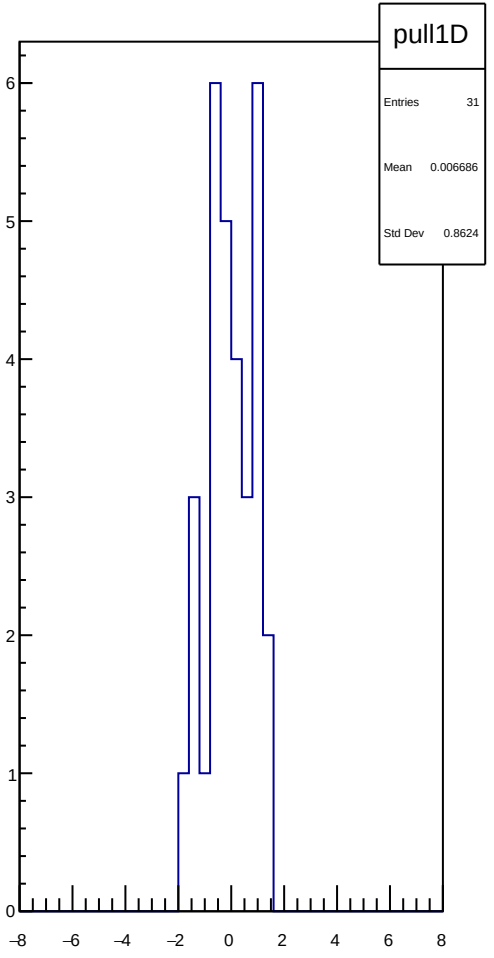

pull1D
Entries 31
Mean −0.02231
Std Dev 1.199
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

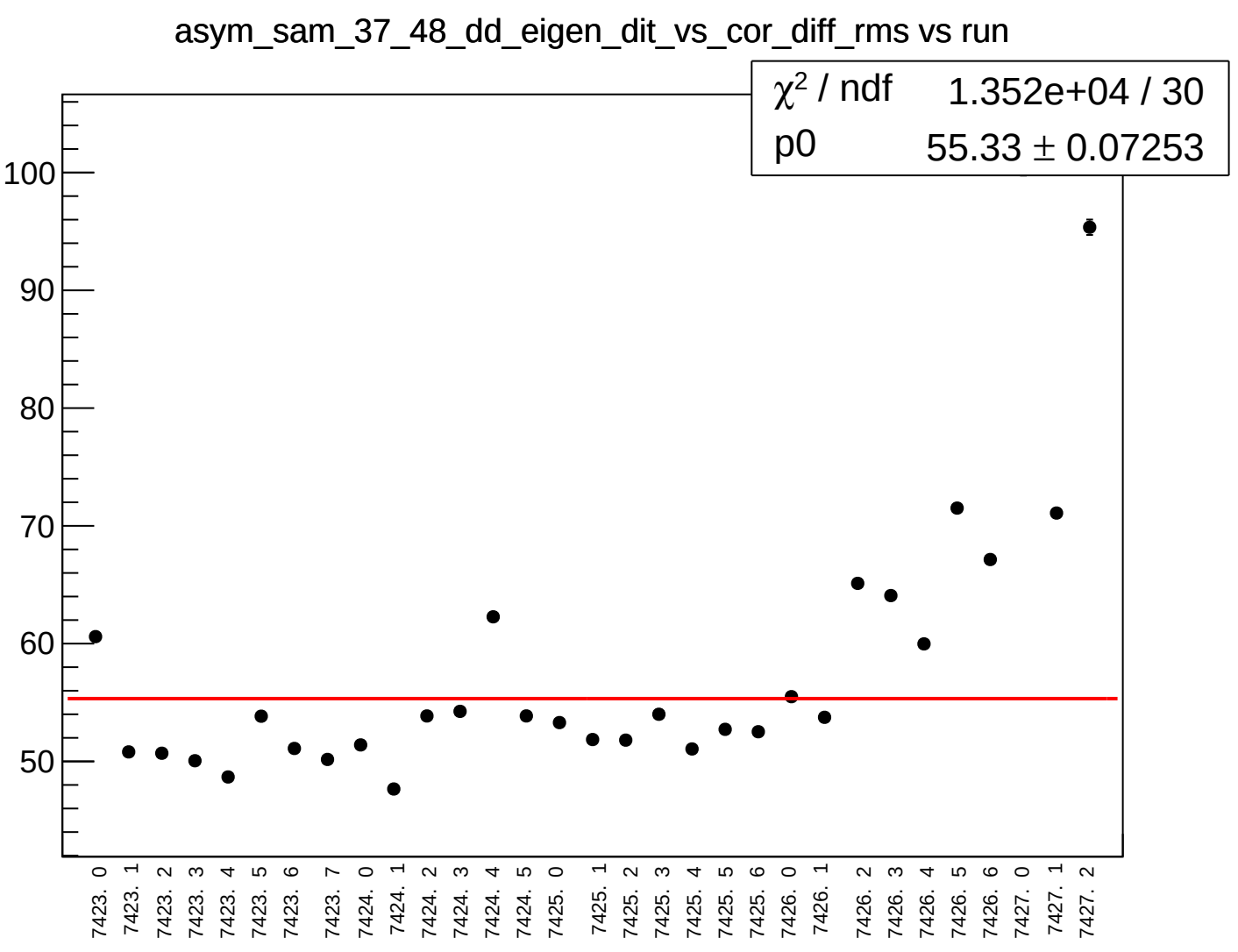

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1203 / 30
p0 0.002802 ± 3.635e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

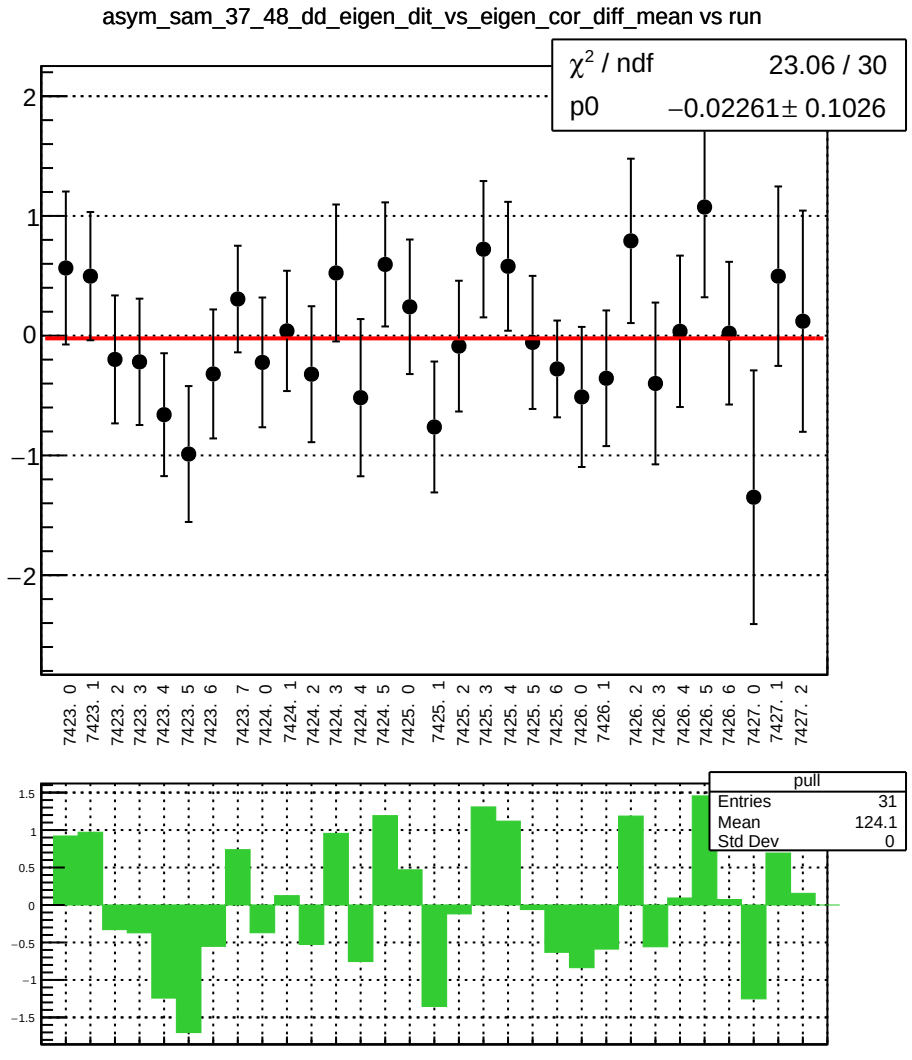
asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run

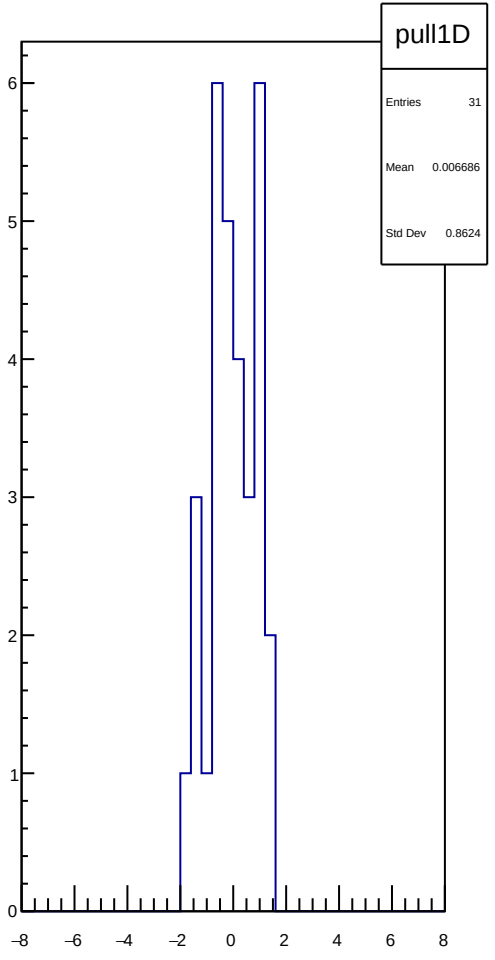


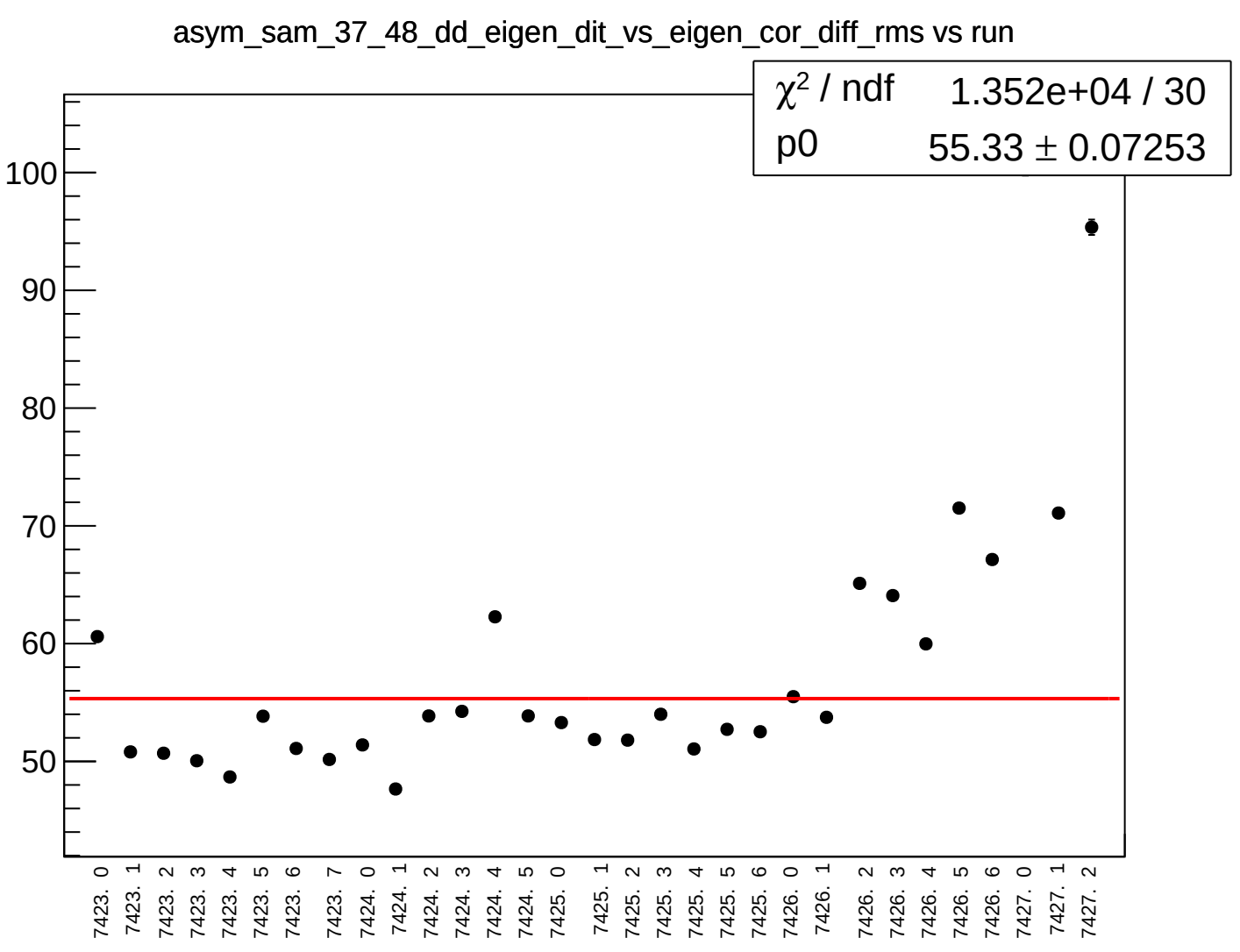


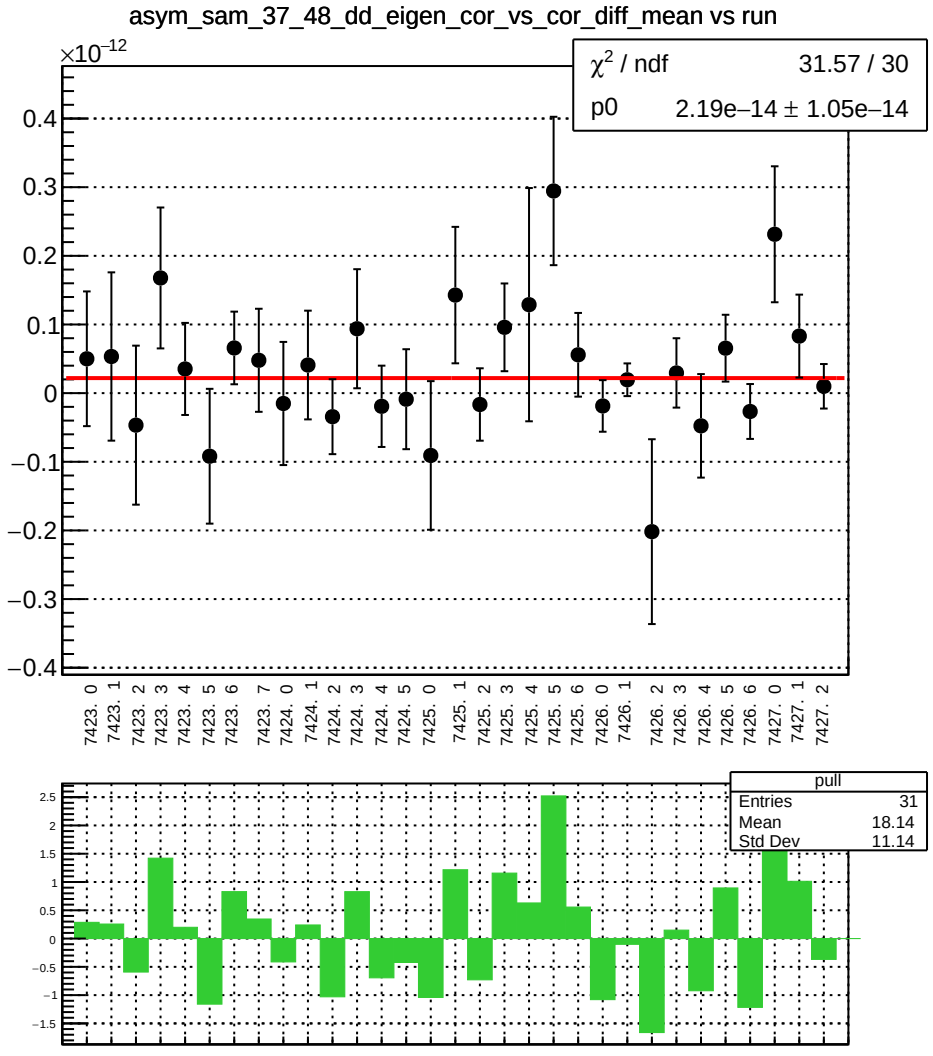


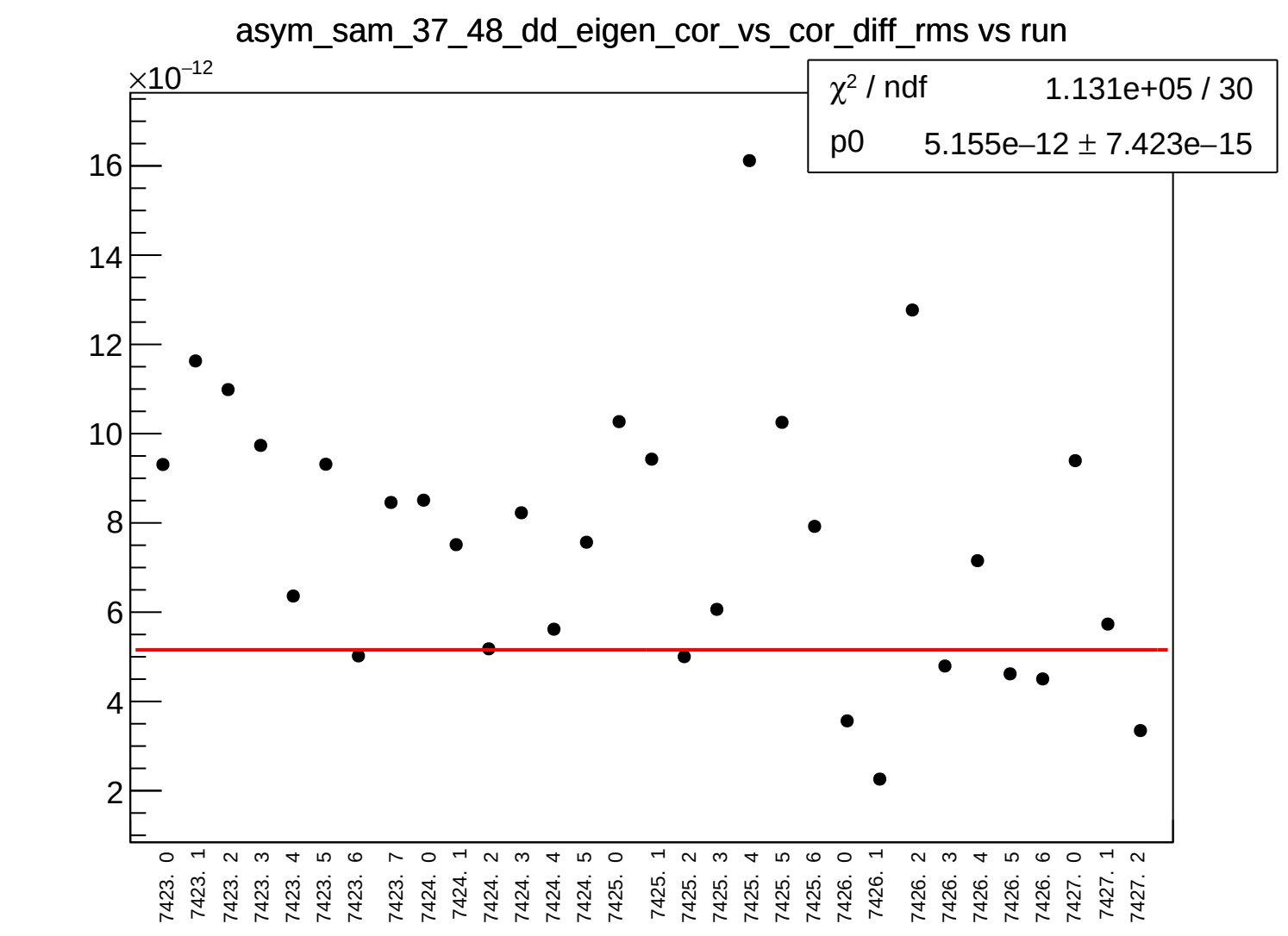

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.352e+04 / 30
p0 55.33 ± 0.07253
100
90
80
70
60
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

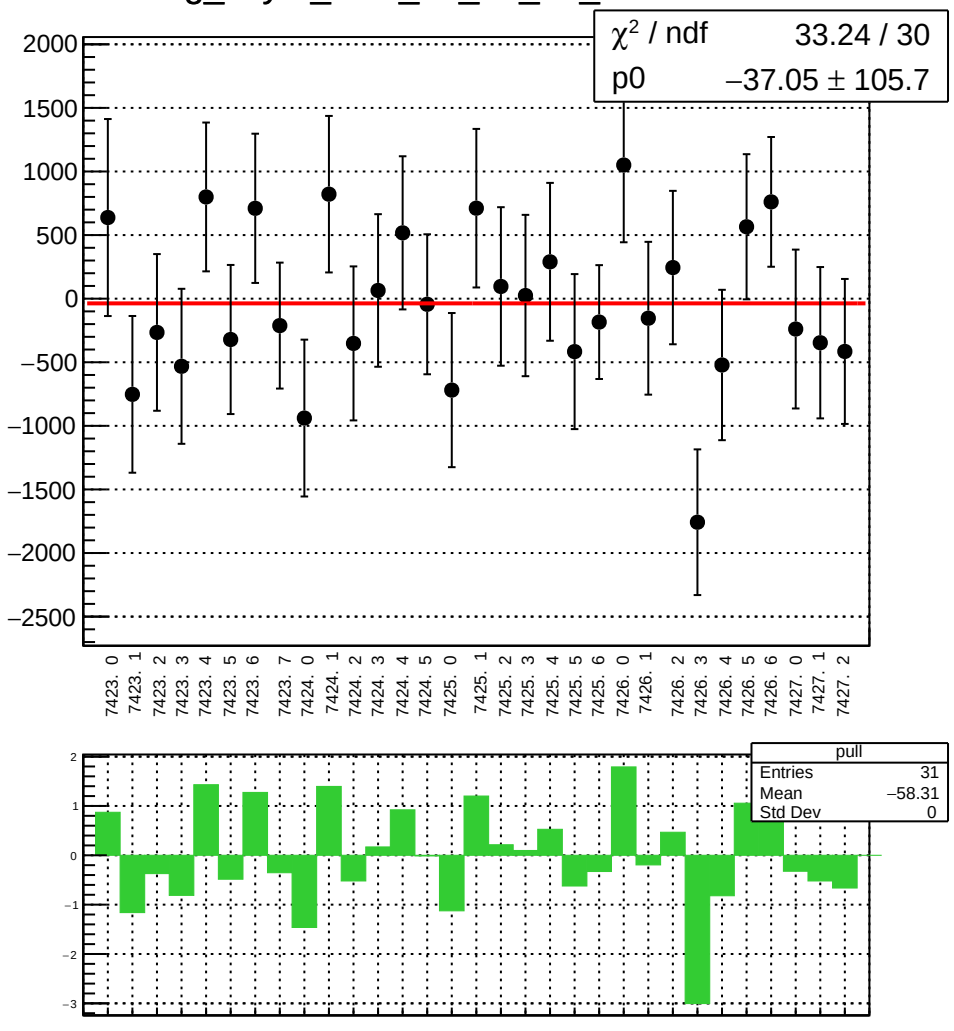

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.06 / 30
p0 −0.02261± 0.1026
2
1
0
−1
−2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

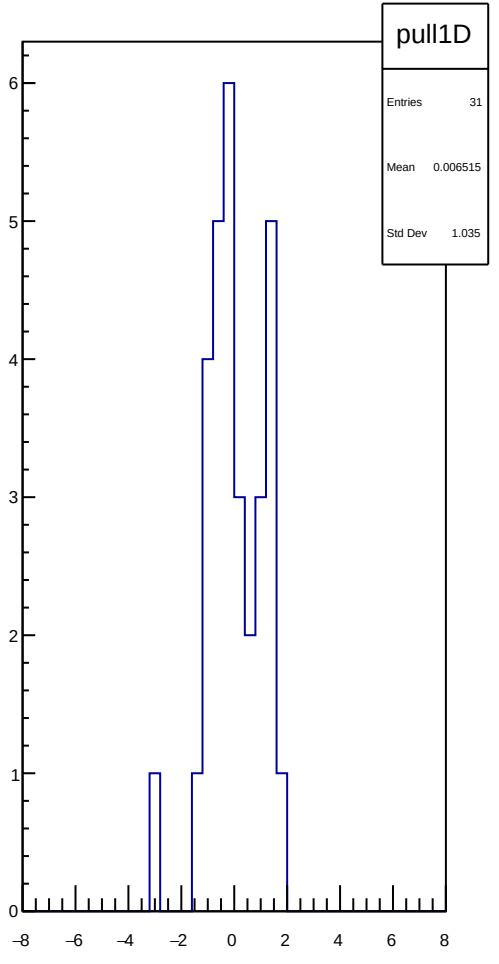

pull1D
Entries 31
Mean 0.006686
Std Dev 0.8624
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

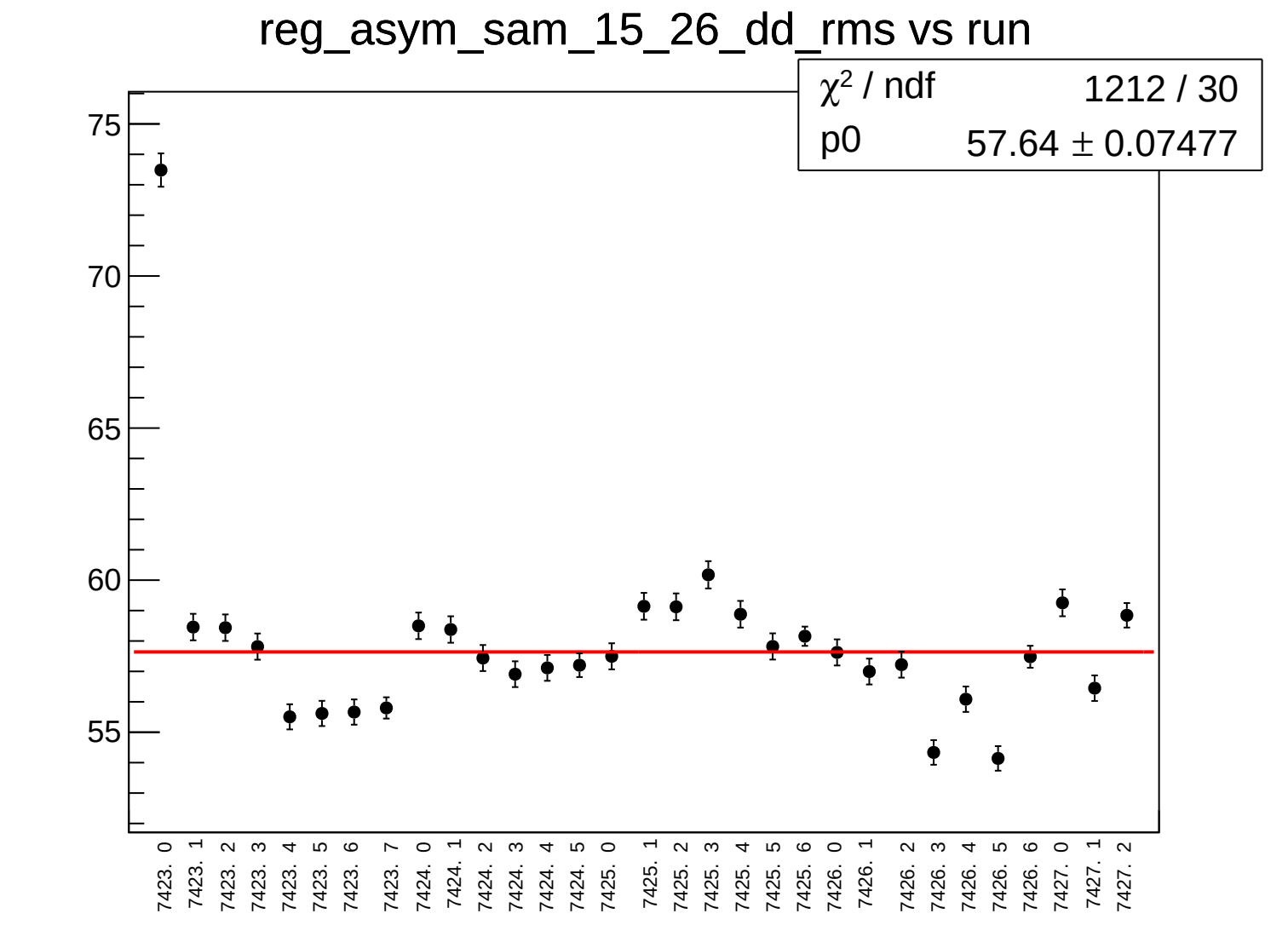

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.352e+04 / 30
p0 55.33 ± 0.07253
100
90
80
70
60
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

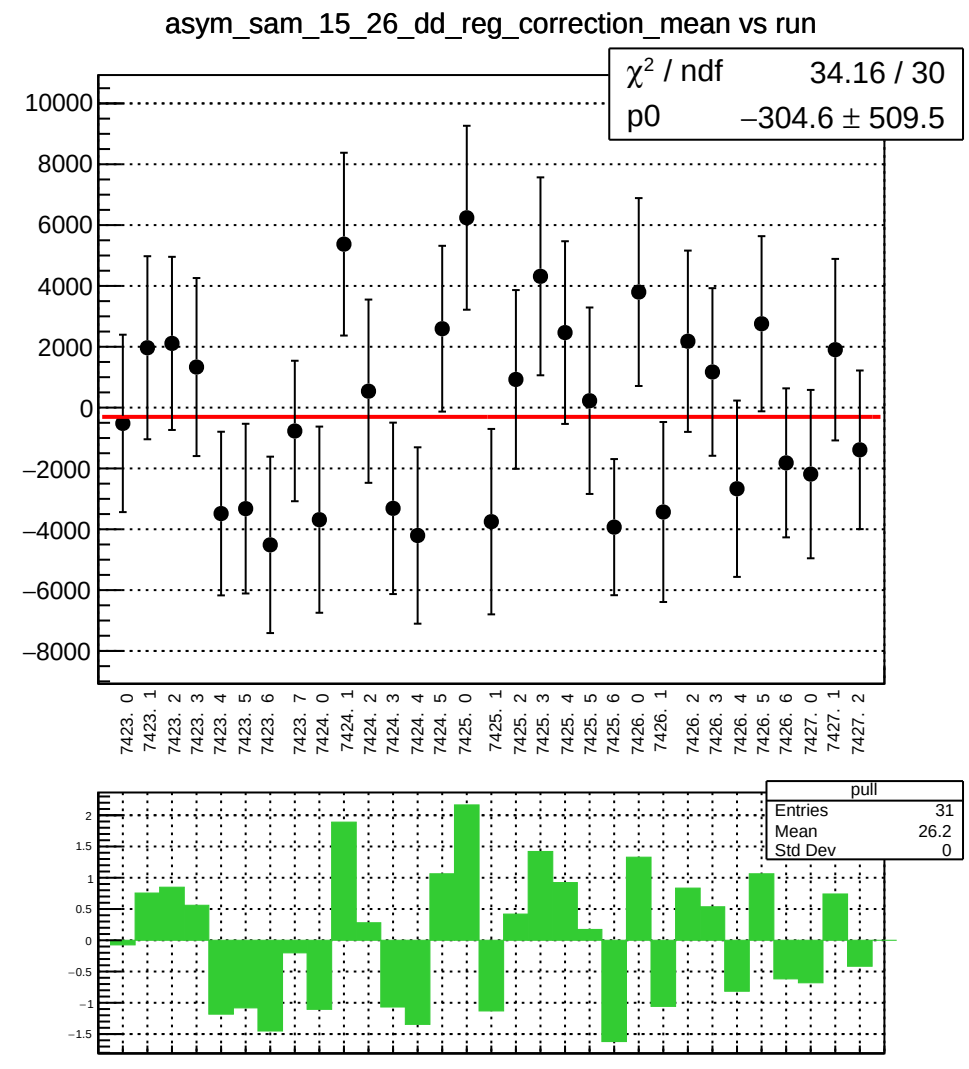

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.57 / 30
p0 2.19e−14 ± 1.05e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 18.14
Std Dev 11.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.1043
Std Dev 1.004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

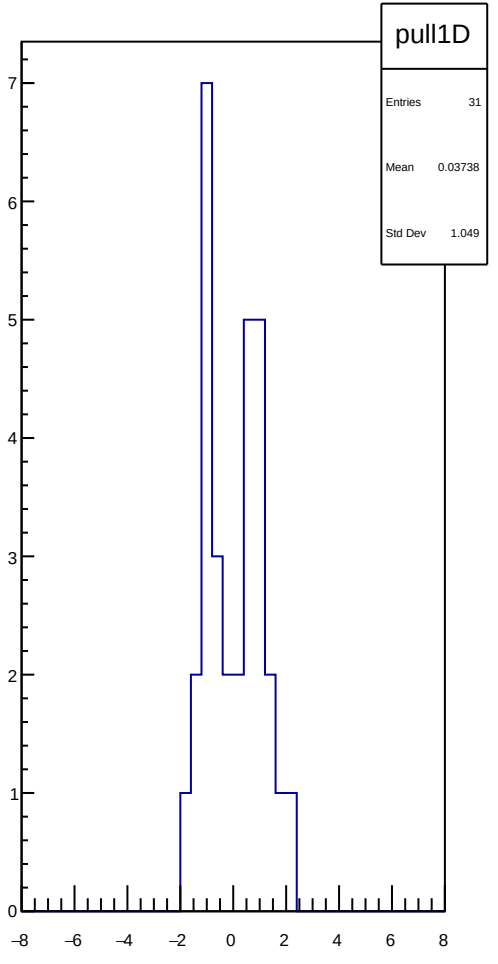

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.131e+05 / 30
p0 5.155e−12 ± 7.423e−15
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

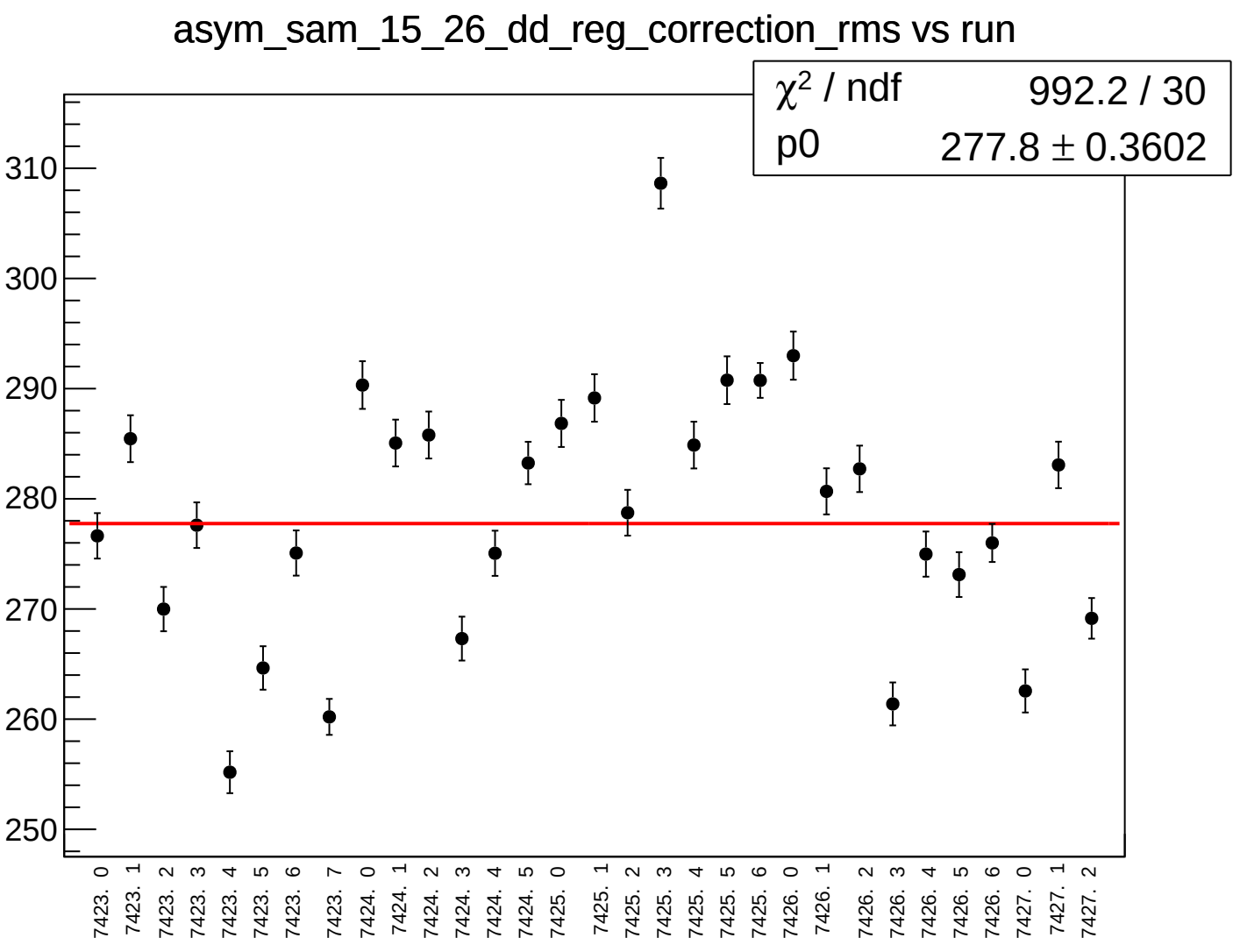

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 33.24 / 30
p0 −37.05 ± 105.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −58.31
Std Dev 0
2
1
0
−1
−2
−3

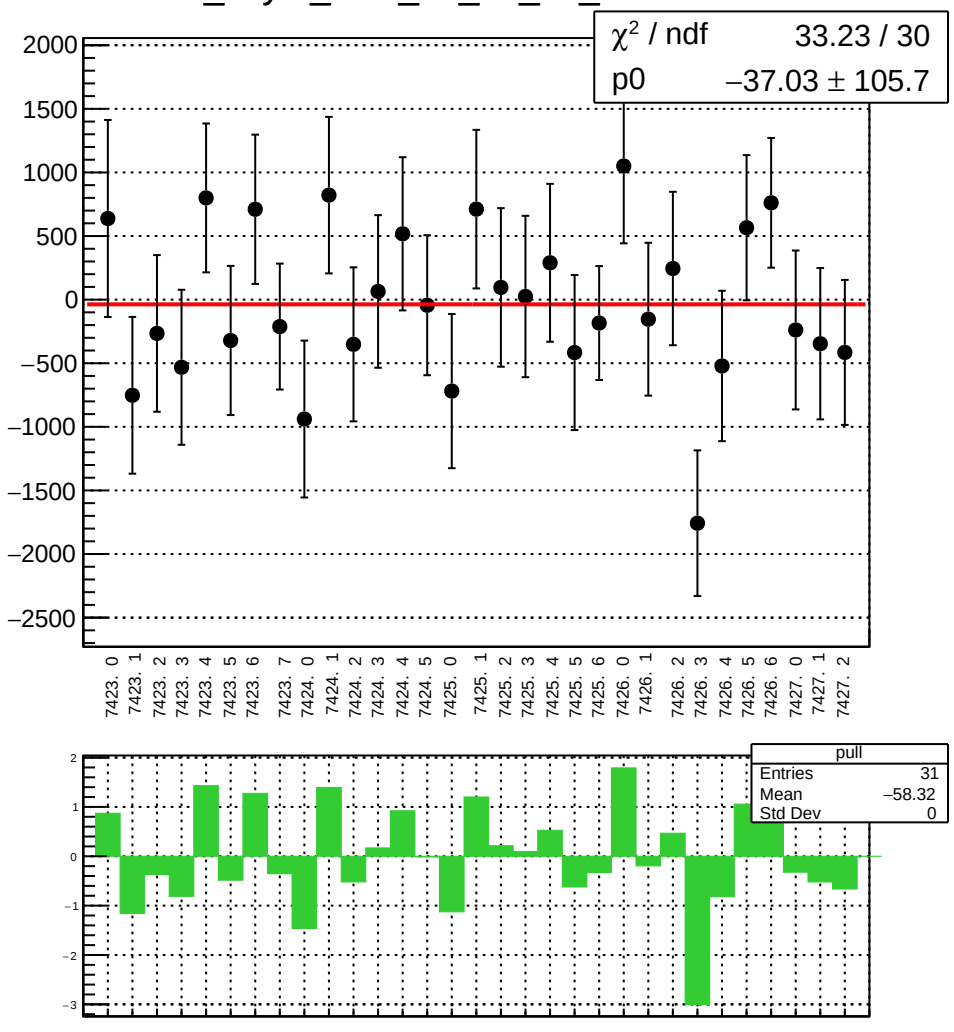

pull1D
Entries 31
Mean 0.006515
Std Dev 1.035
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

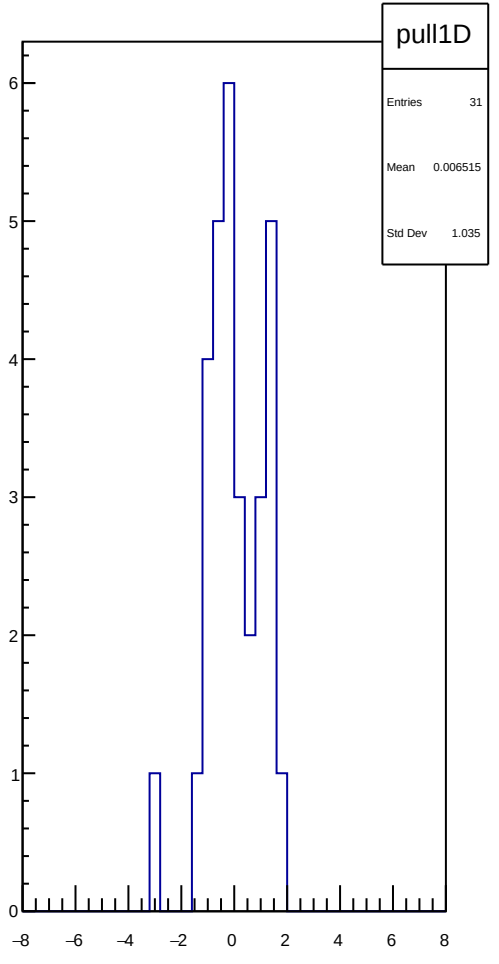

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1212 / 30
p0 57.64 ± 0.07477
75
70
65
60
55
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

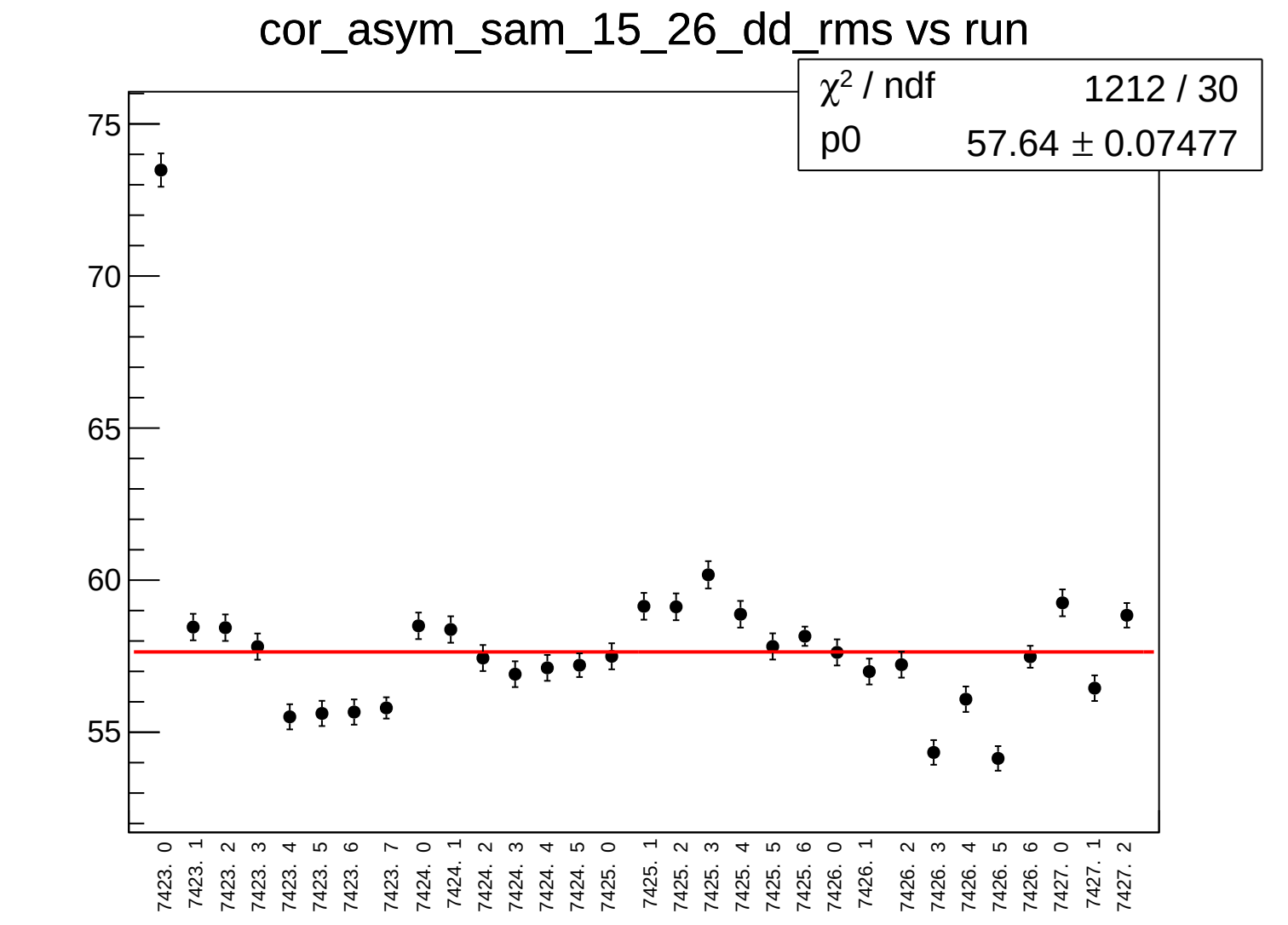

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 34.16 / 30
p0 −304.6 ± 509.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 26.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

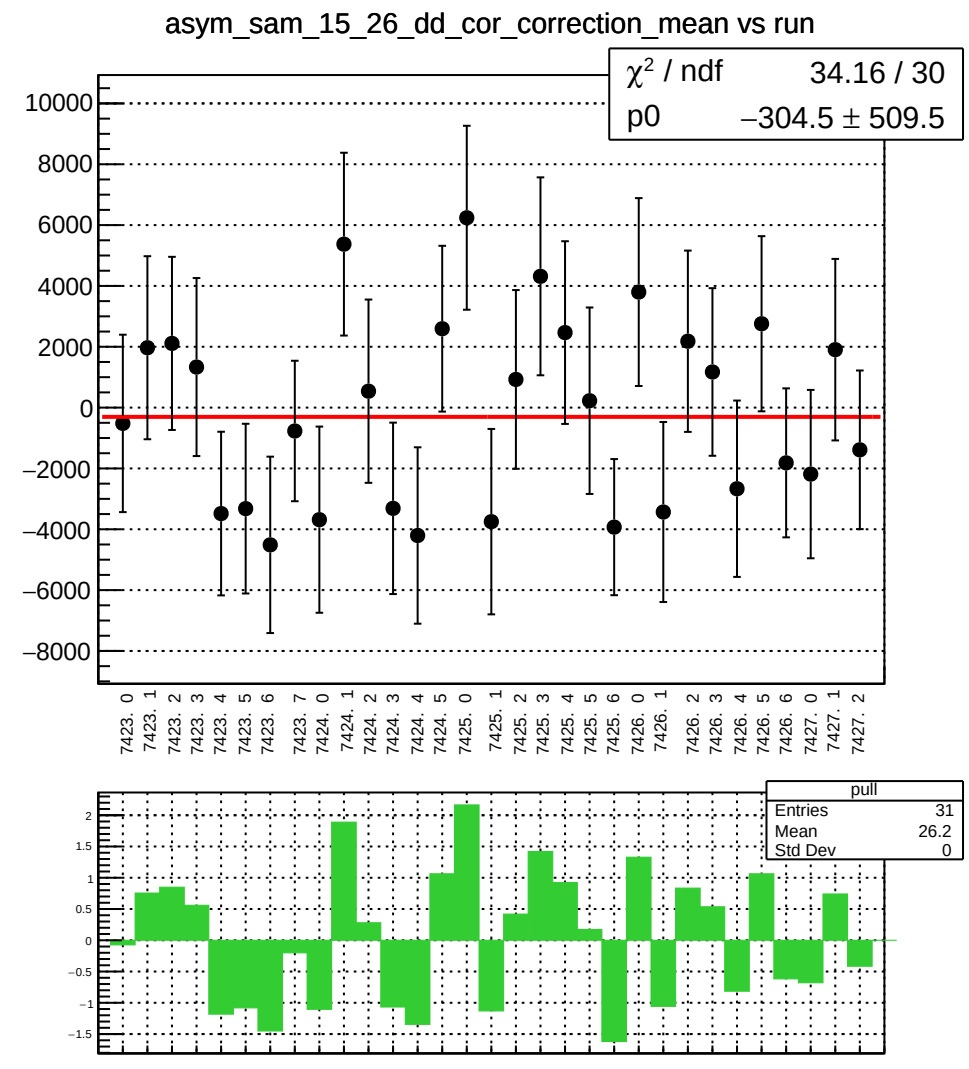

pull1D
Entries 31
Mean 0.03738
Std Dev 1.049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

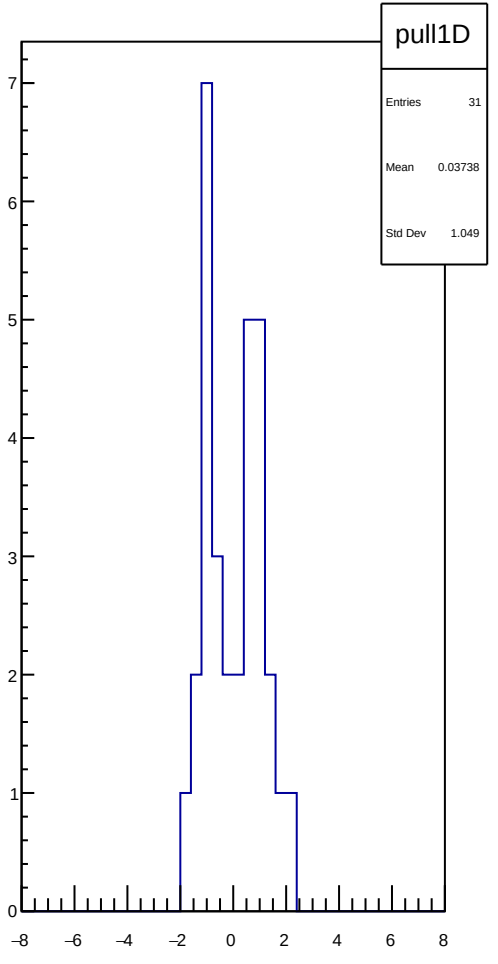

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 992.2 / 30
p0 277.8 ± 0.3602
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

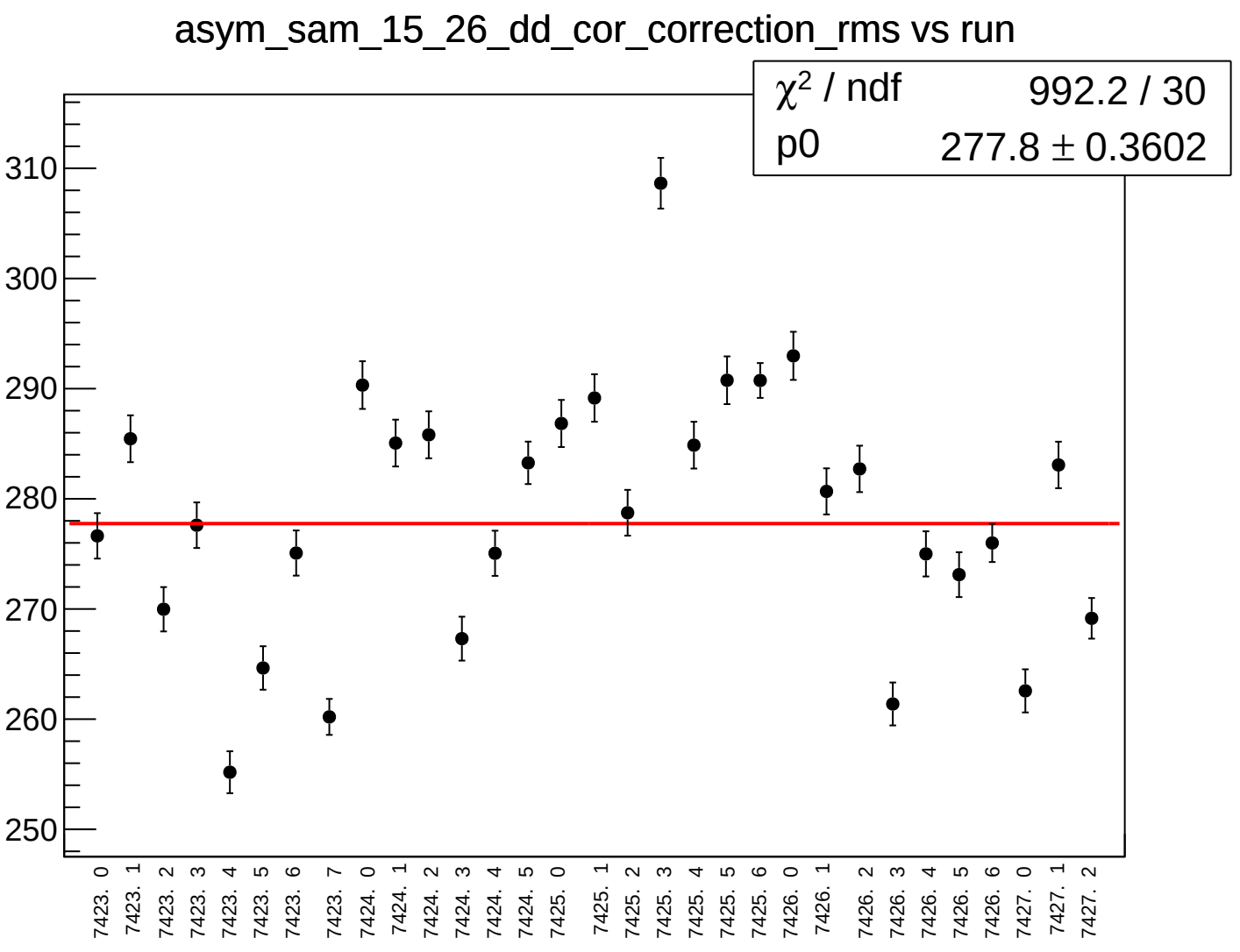

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 33.23 / 30
p0 −37.03 ± 105.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −58.32
Std Dev 0
2
1
0
−1
−2
−3

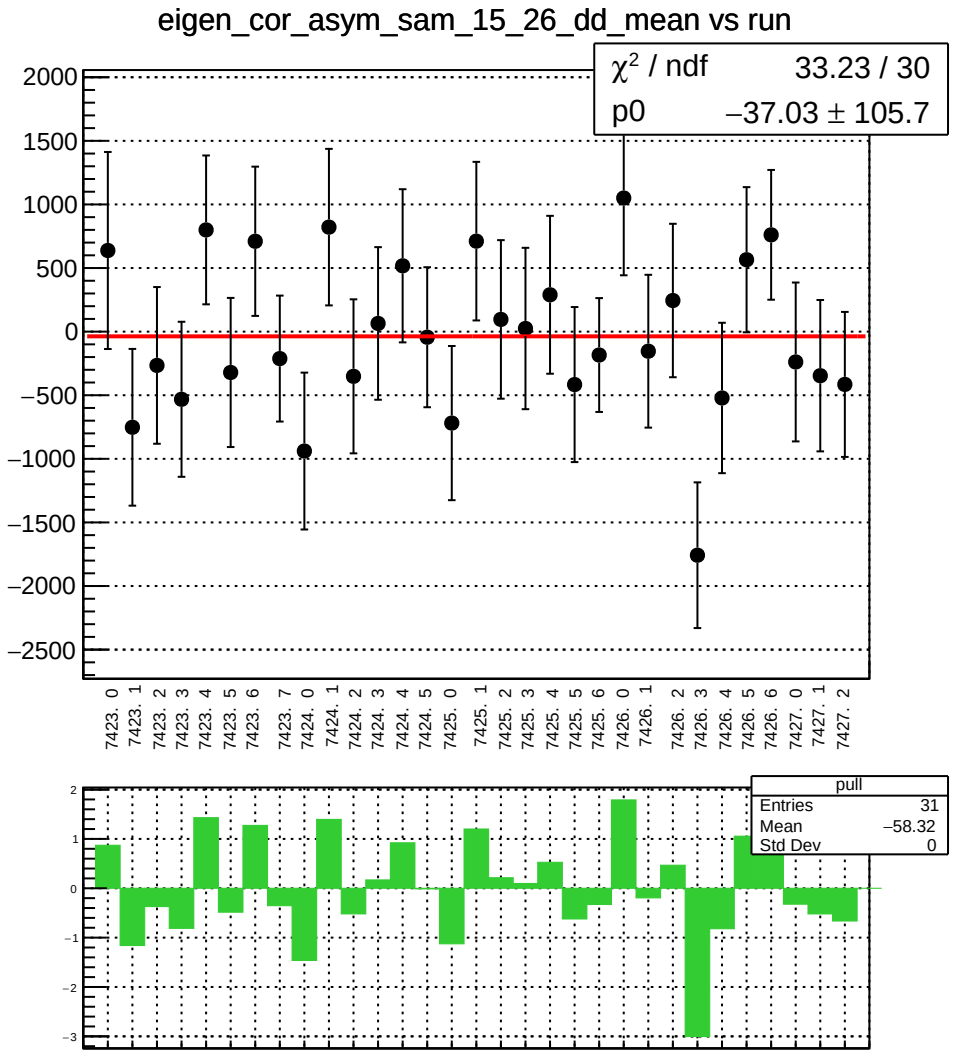

pull1D
Entries 31
Mean 0.006515
Std Dev 1.035
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

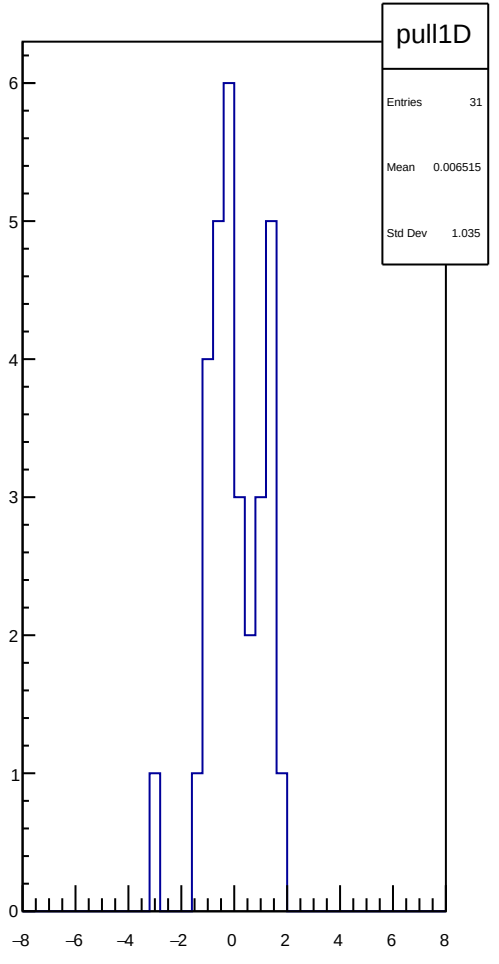

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1212 / 30
p0 57.64 ± 0.07477
75
70
65
60
55
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

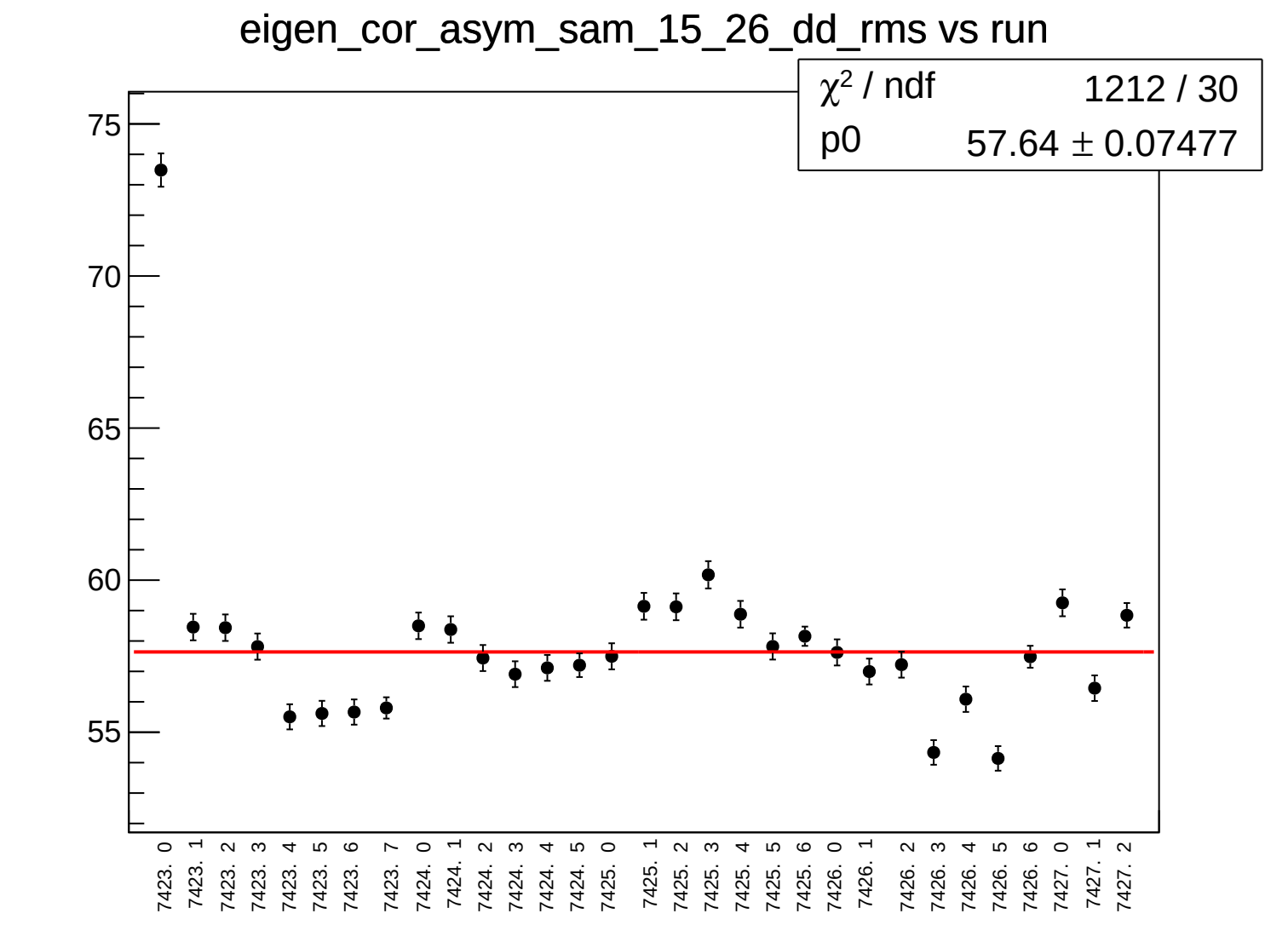

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 34.16 / 30
p0 −304.5 ± 509.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 26.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

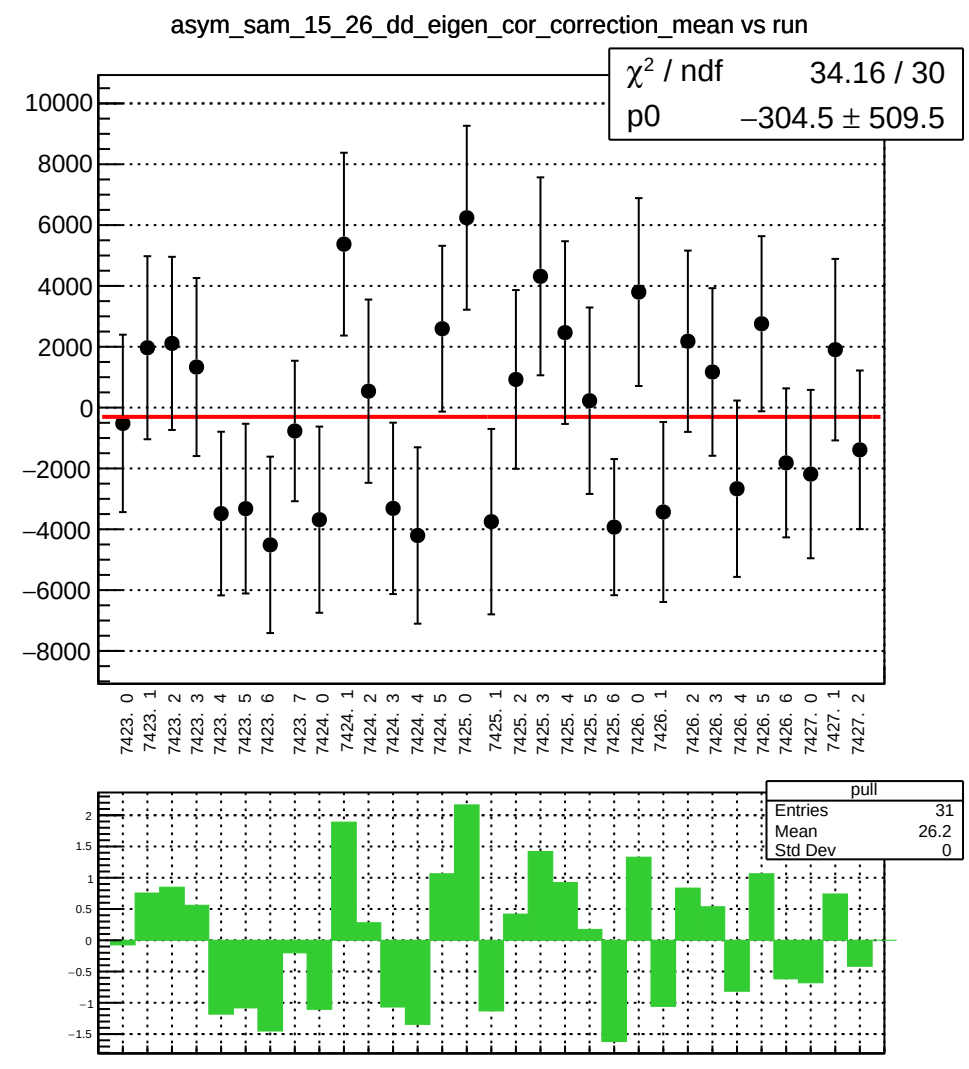

pull1D
Entries 31
Mean 0.03738
Std Dev 1.049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

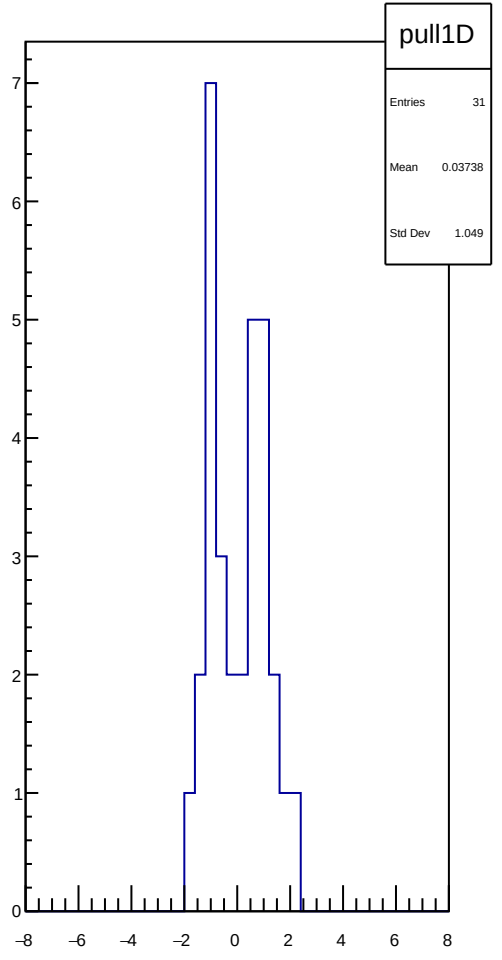

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 992.2 / 30
p0 277.8 ± 0.3602
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

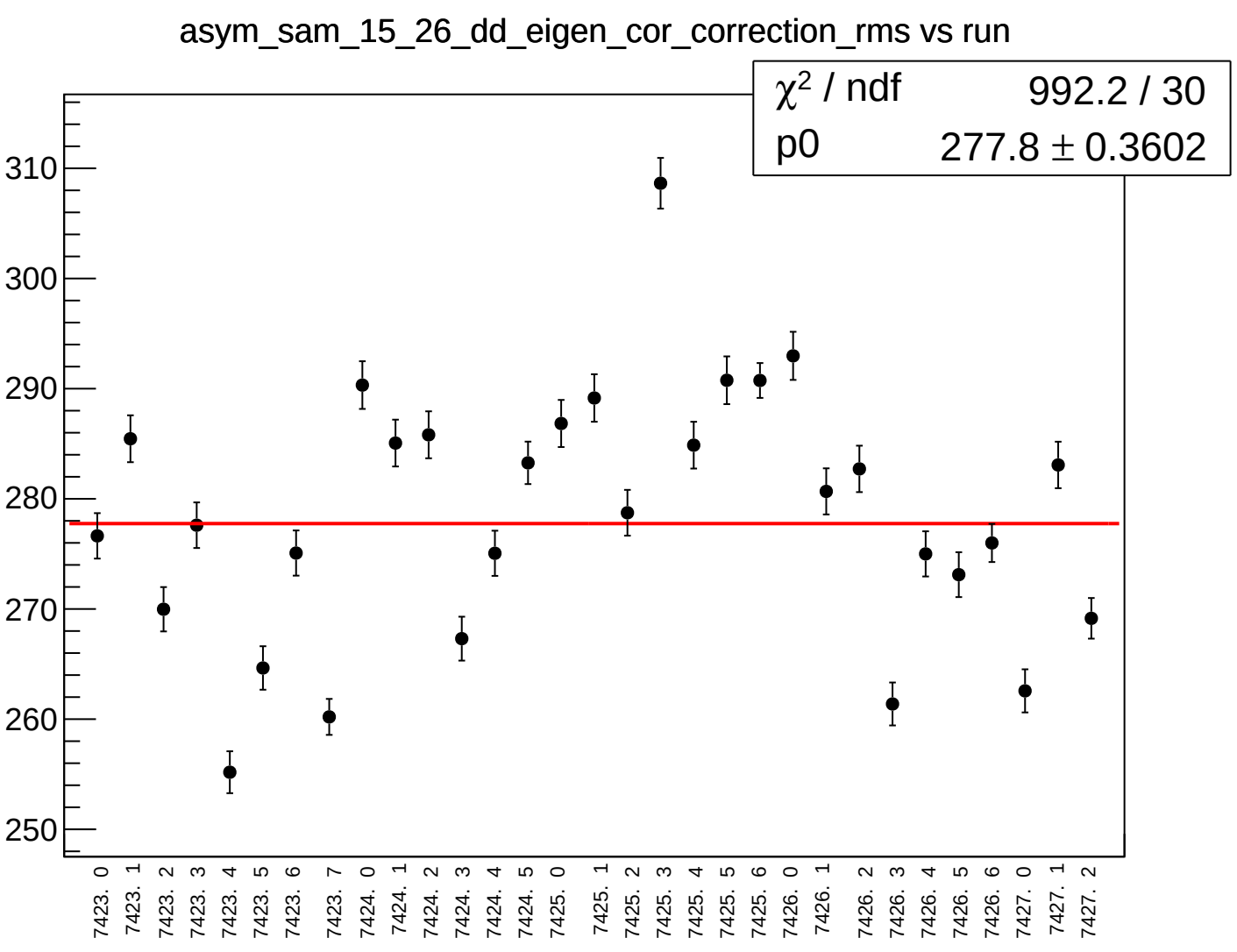

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 33.23 / 30
p0 −37.03 ± 105.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −58.32
Std Dev 0
2
1
0
−1
−2
−3

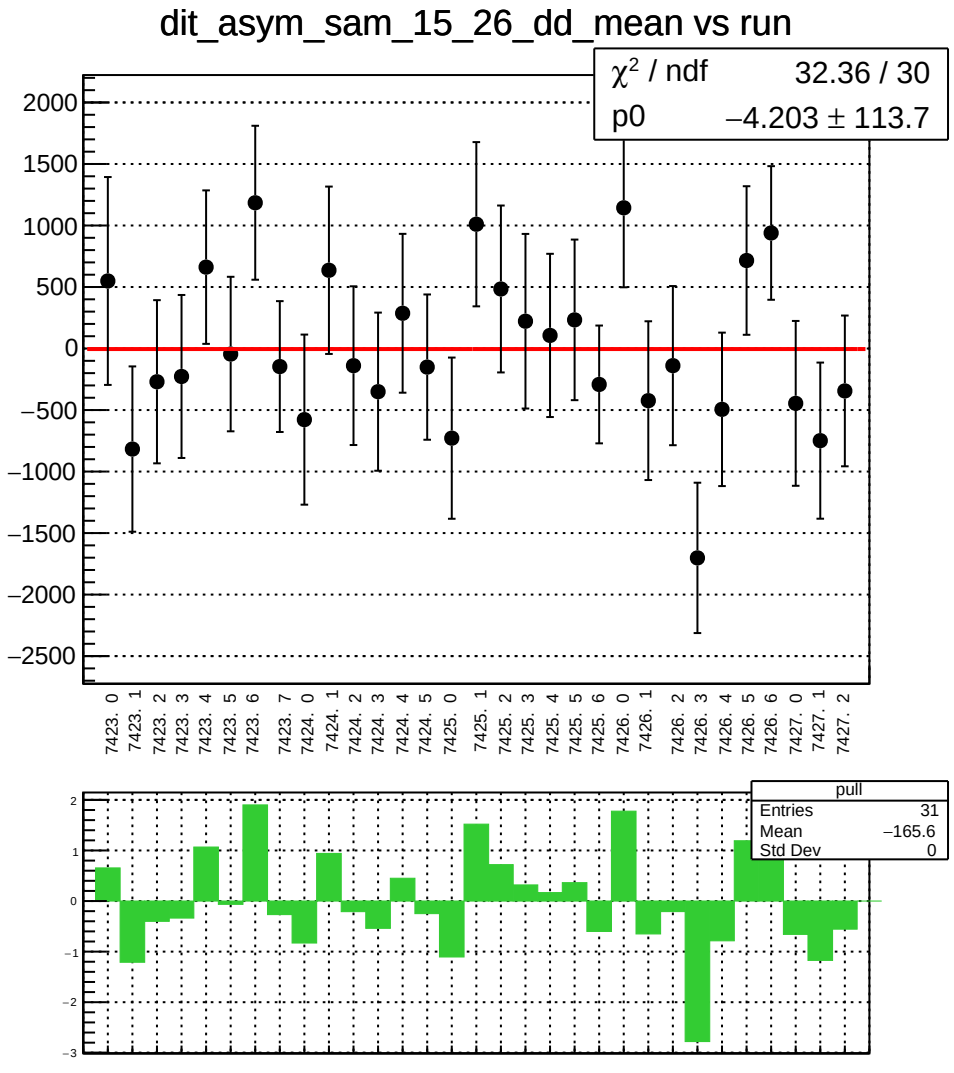

pull1D
Entries 31
Mean 0.006515
Std Dev 1.035
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

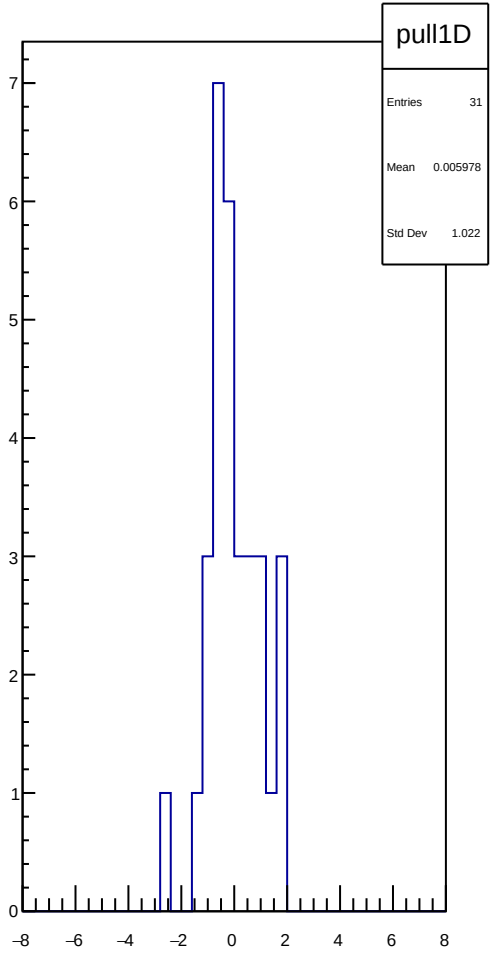

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1212 / 30
p0 57.64 ± 0.07477
75
70
65
60
55
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

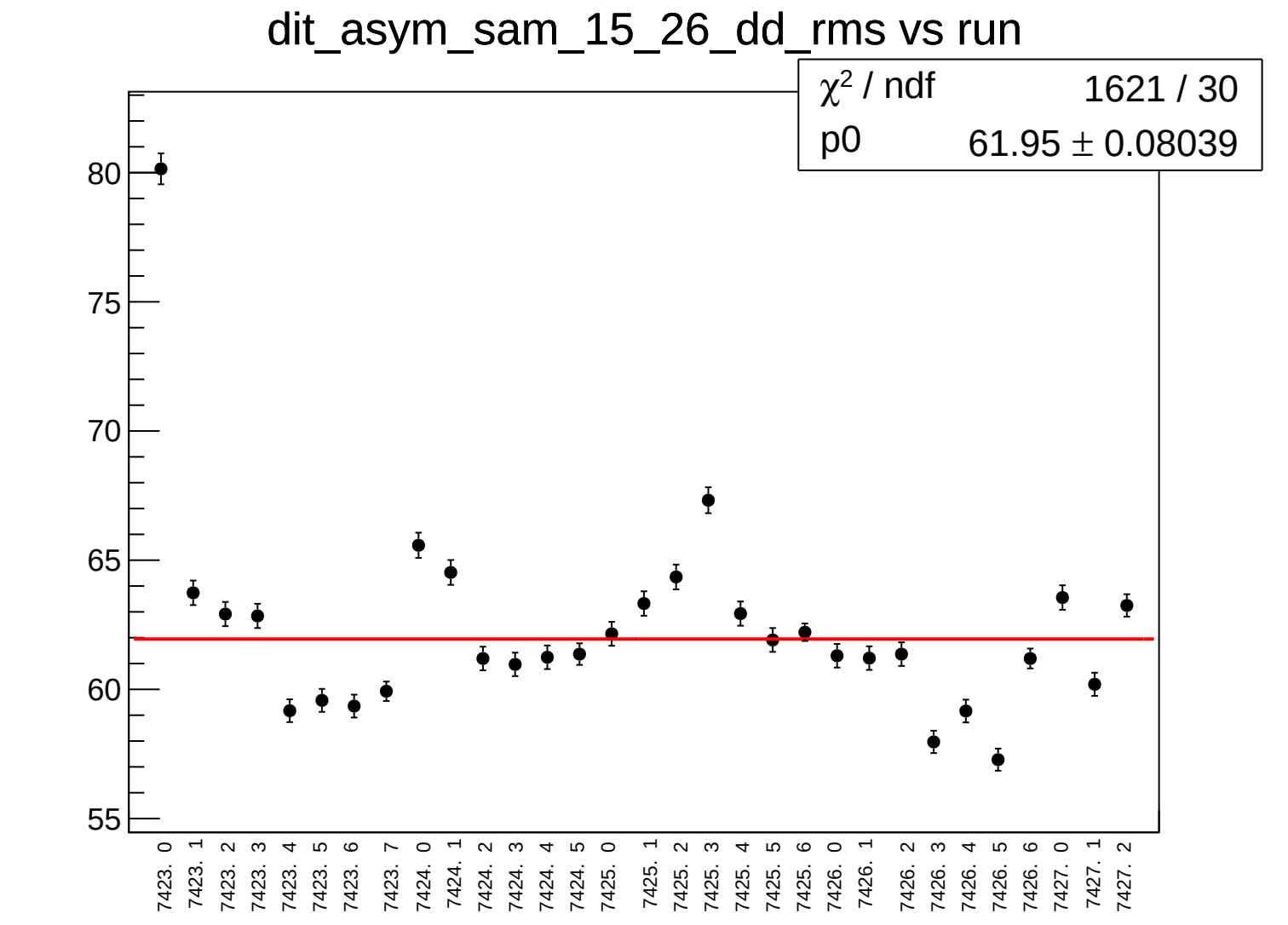

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 34.16 / 30
p0 −304.5 ± 509.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 26.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

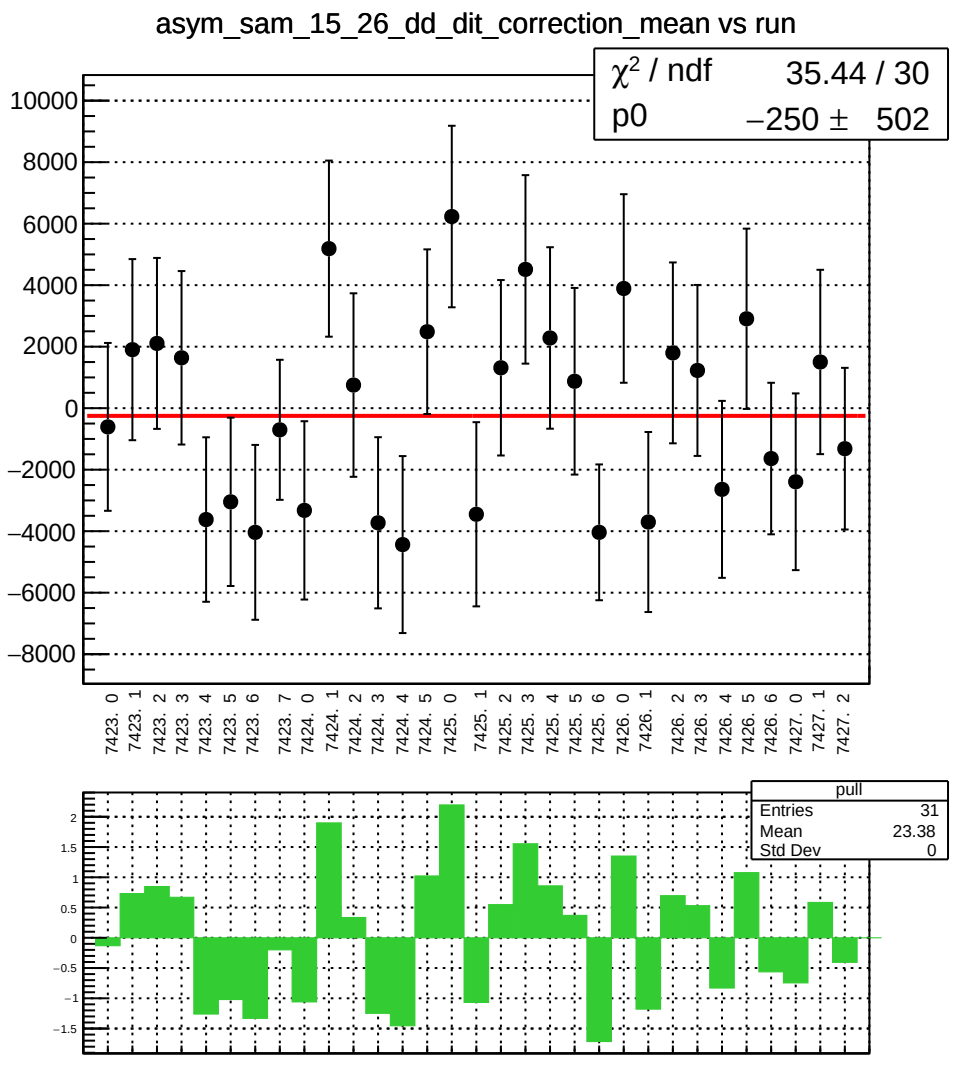

pull1D
Entries 31
Mean 0.03738
Std Dev 1.049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

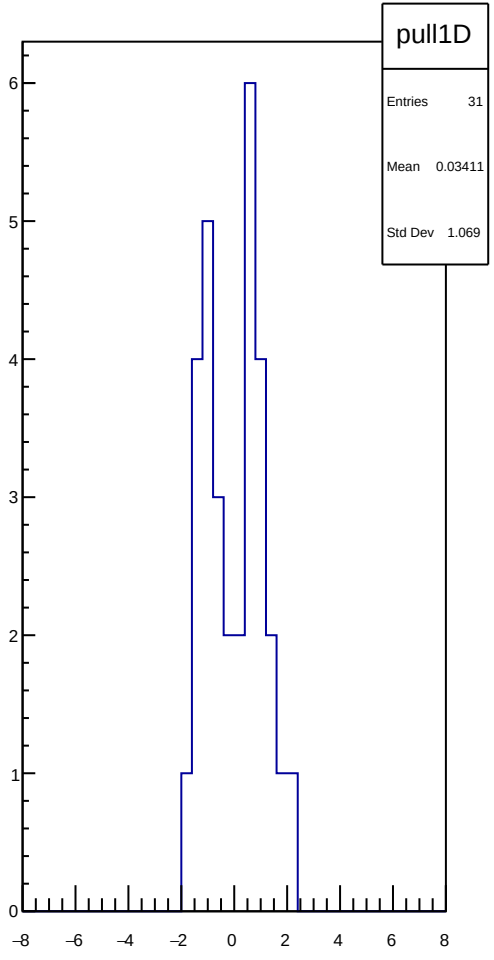

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 992.2 / 30
p0 277.8 ± 0.3602
310
300
290
280
270
260
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

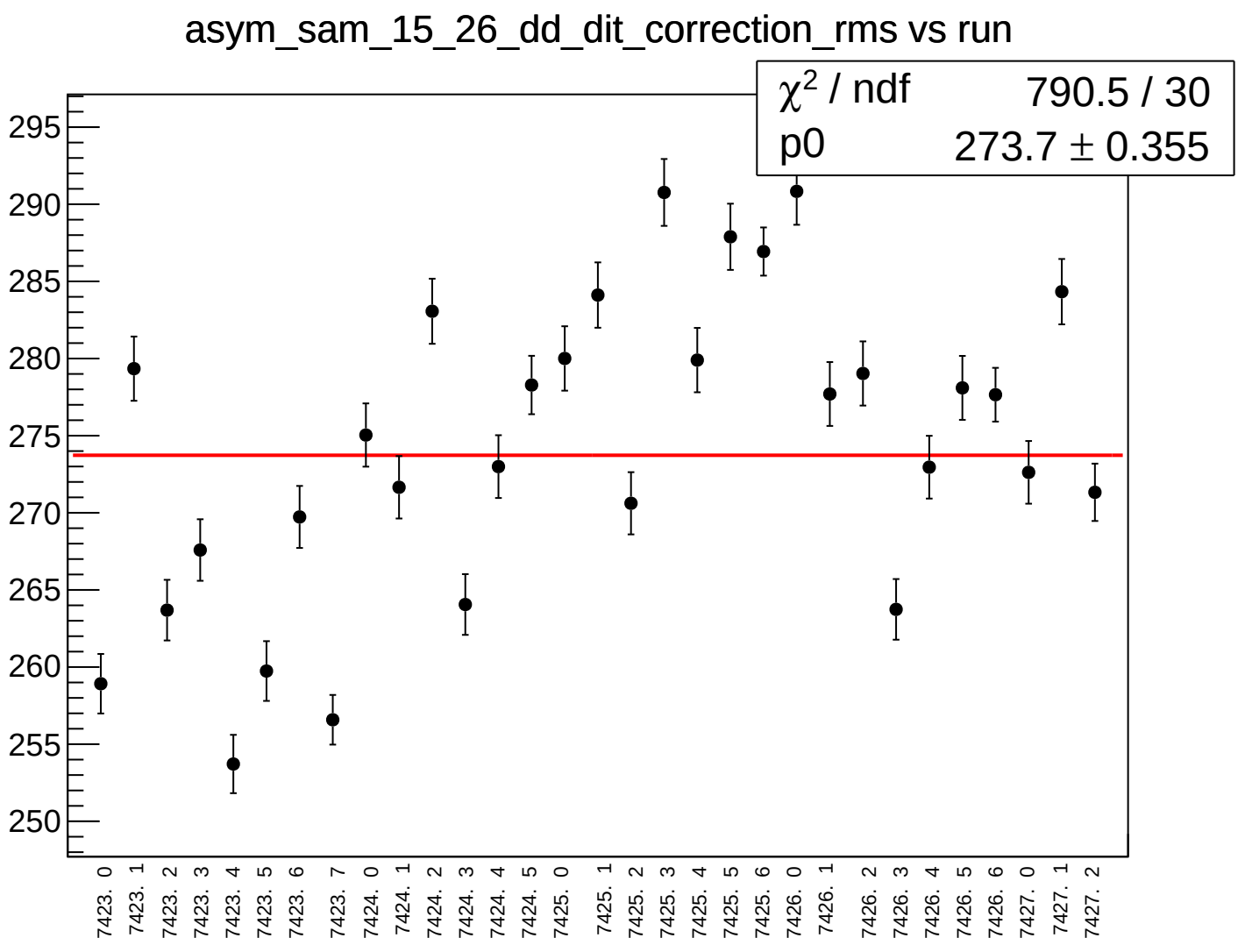

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 32.36 / 30
p0 −4.203 ± 113.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −165.6
Std Dev 0
2
1
0
−1
−2
−3

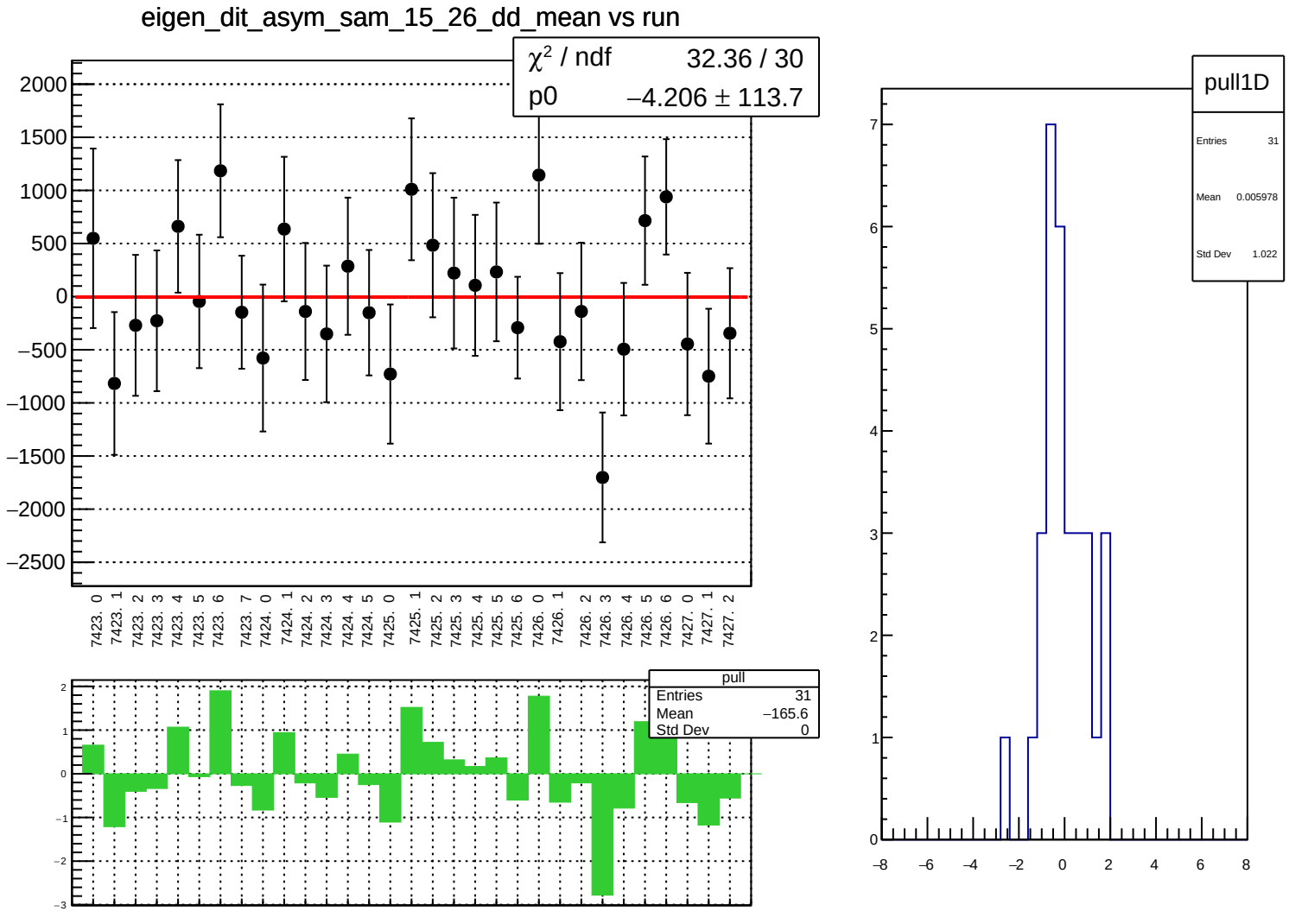

pull1D
Entries 31
Mean 0.005978
Std Dev 1.022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

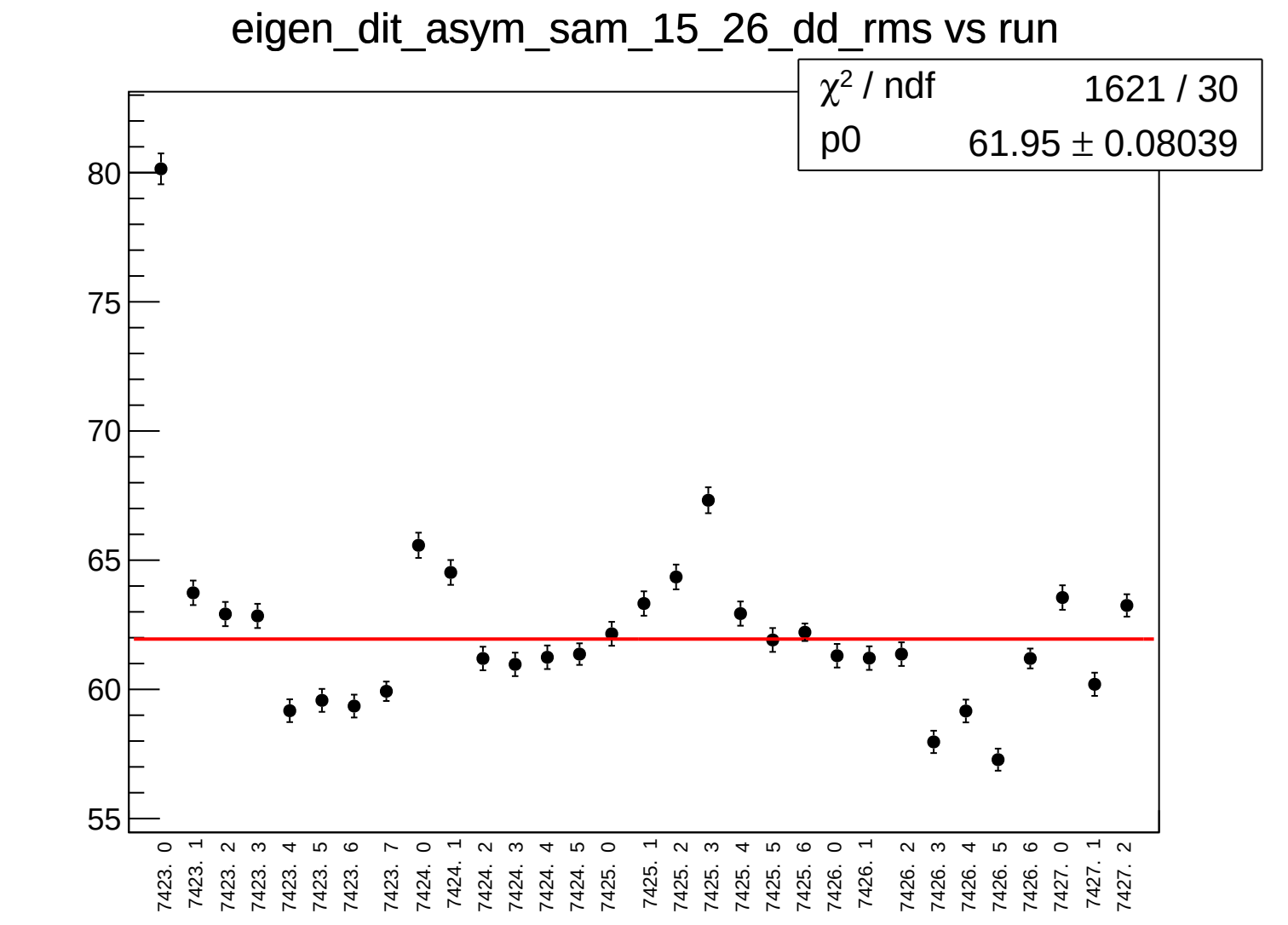

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1621 / 30
p0 61.95 ± 0.08039
80
75
70
65
60
55
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

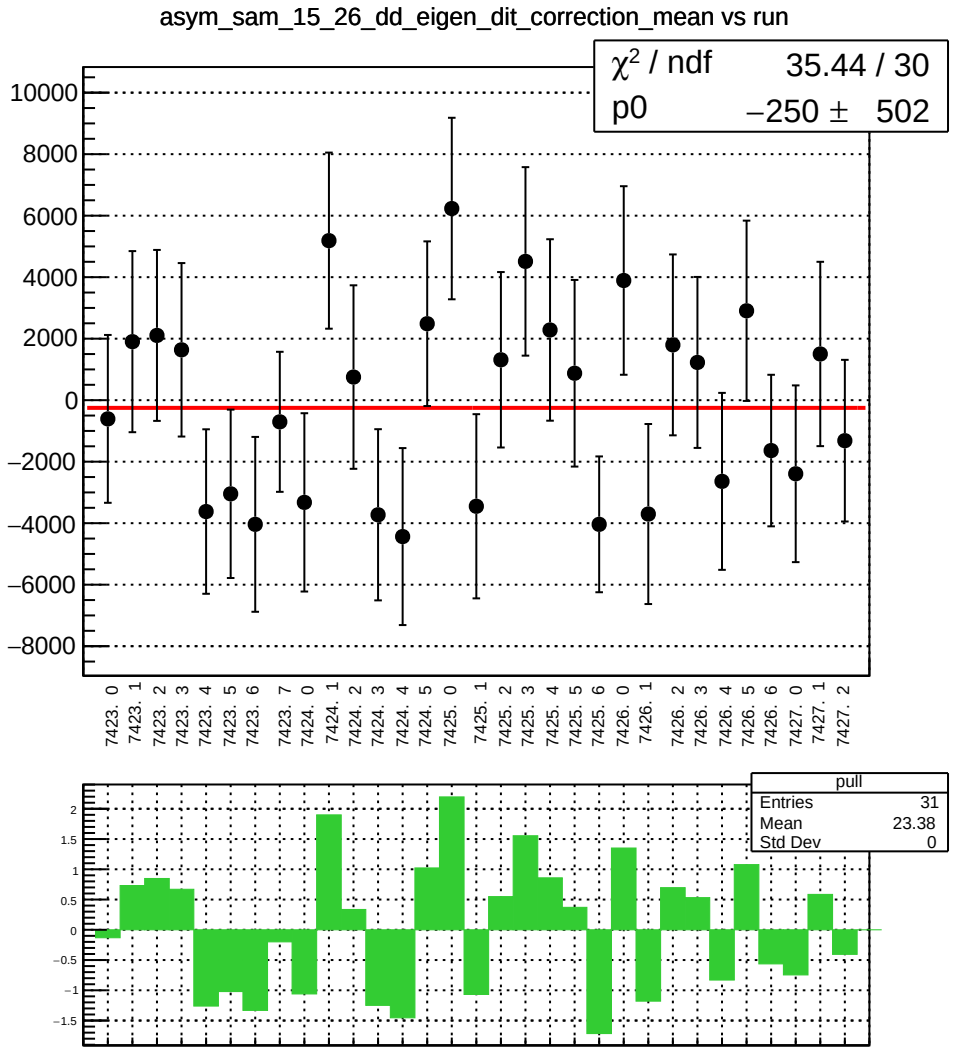

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 35.44 / 30
p0 −250 ± 502
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 23.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

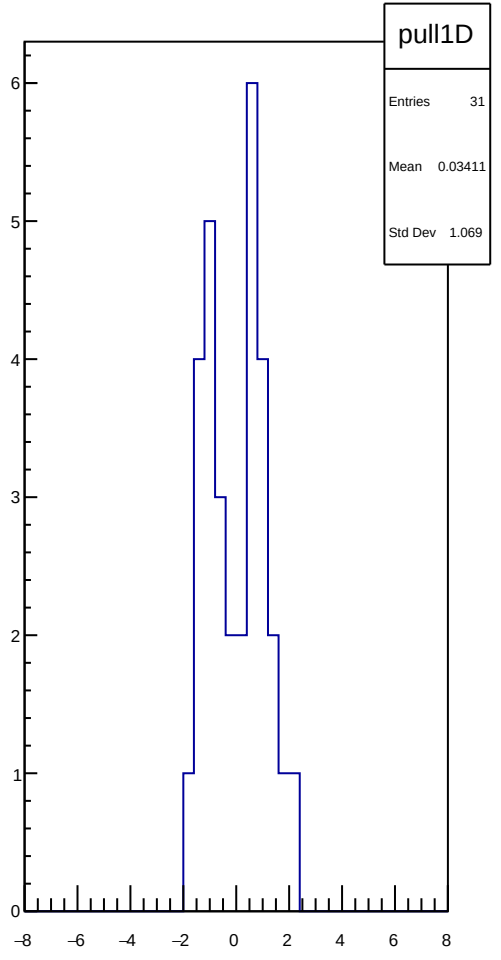

pull1D
Entries 31
Mean 0.03411
Std Dev 1.069
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

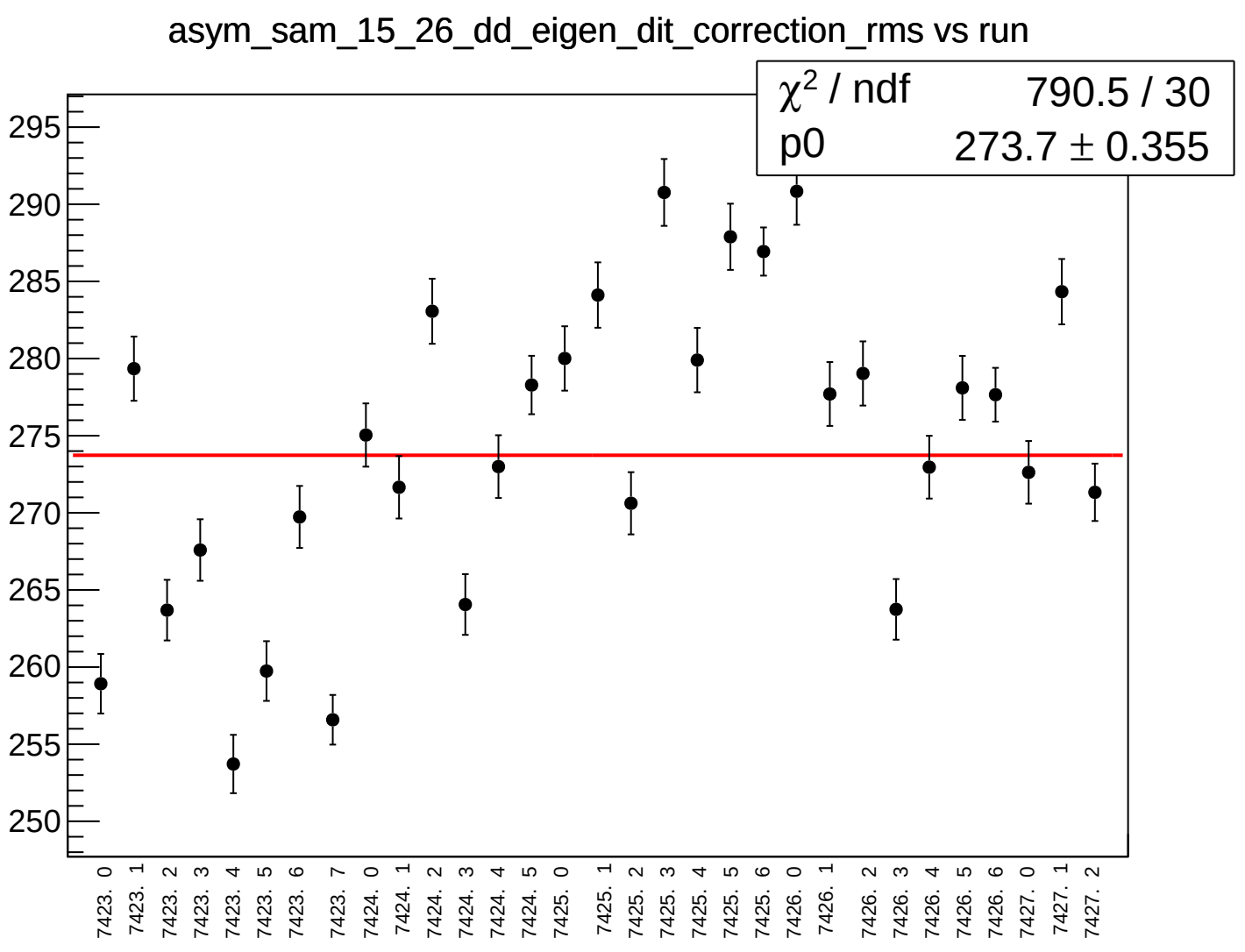

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 790.5 / 30
p0 273.7 ± 0.355
295
290
285
280
275
270
265
260
255
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

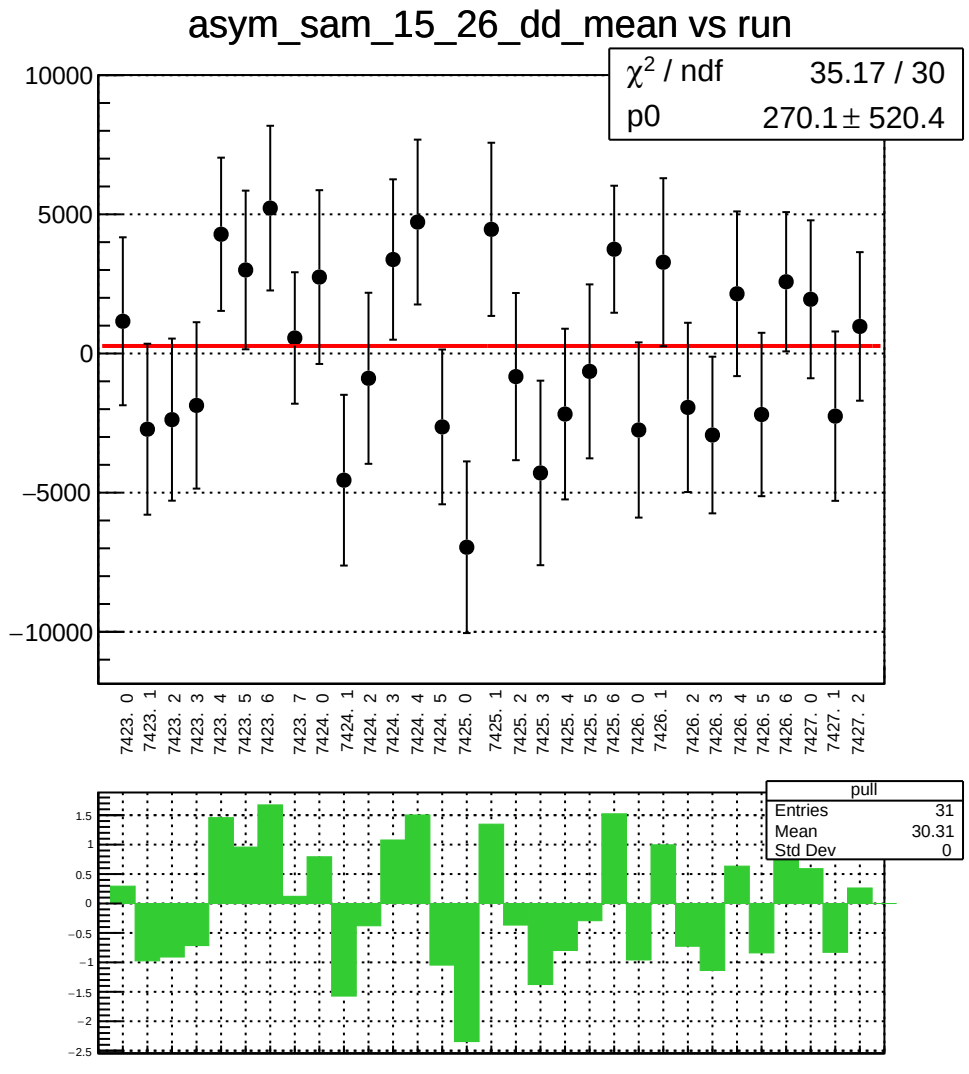

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 32.36 / 30
p0 −4.206 ± 113.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −165.6
Std Dev 0
pull1D
Entries 31
Mean 0.005978
Std Dev 1.022

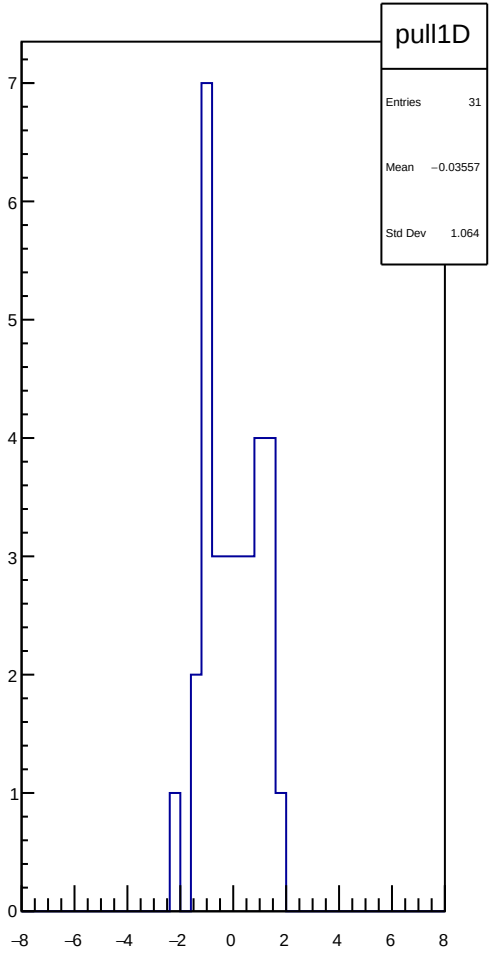

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1621 / 30
p0 61.95 ± 0.08039
80
75
70
65
60
55
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

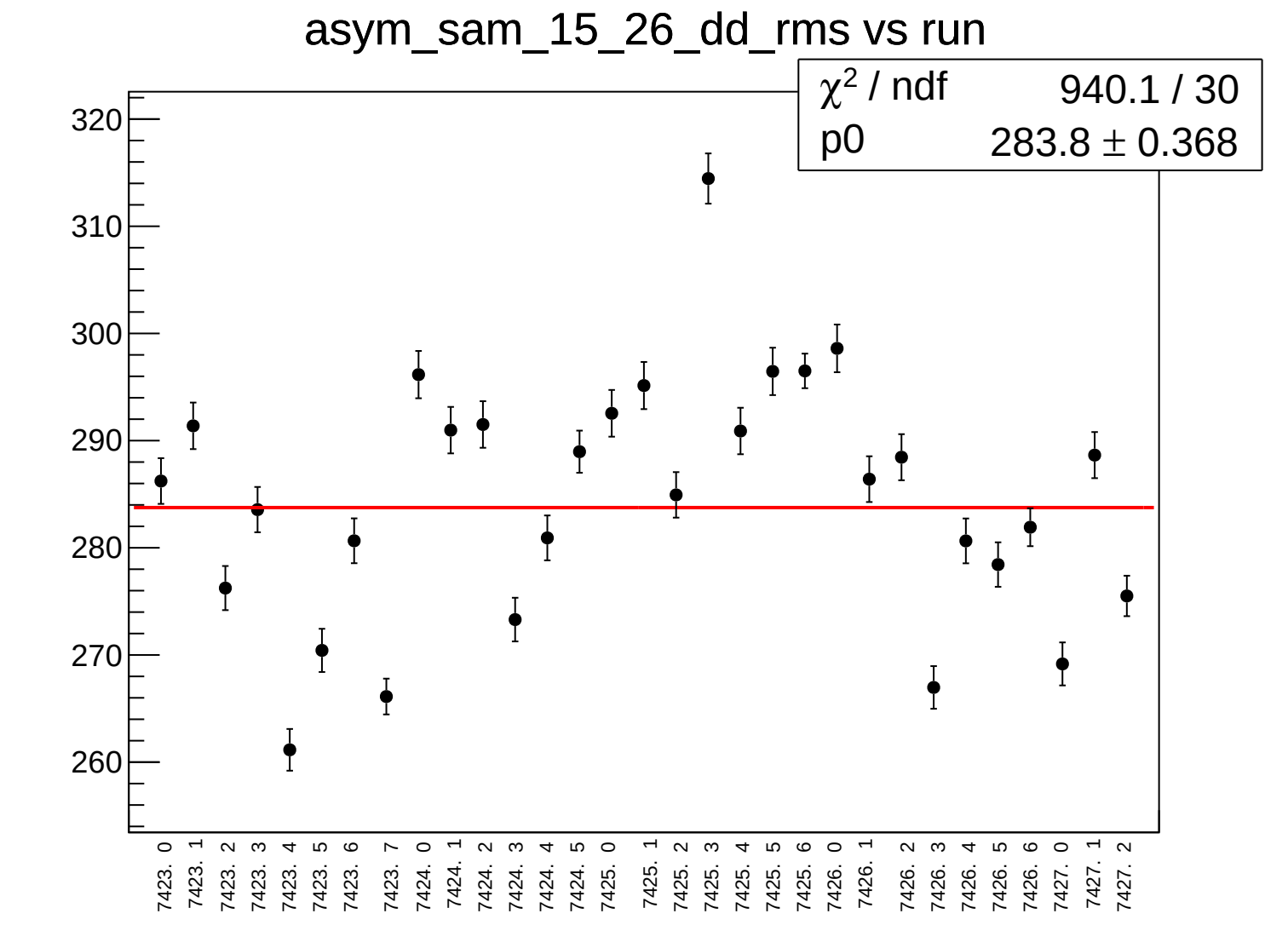

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.44 / 30
p0 −250 ± 502
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 23.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

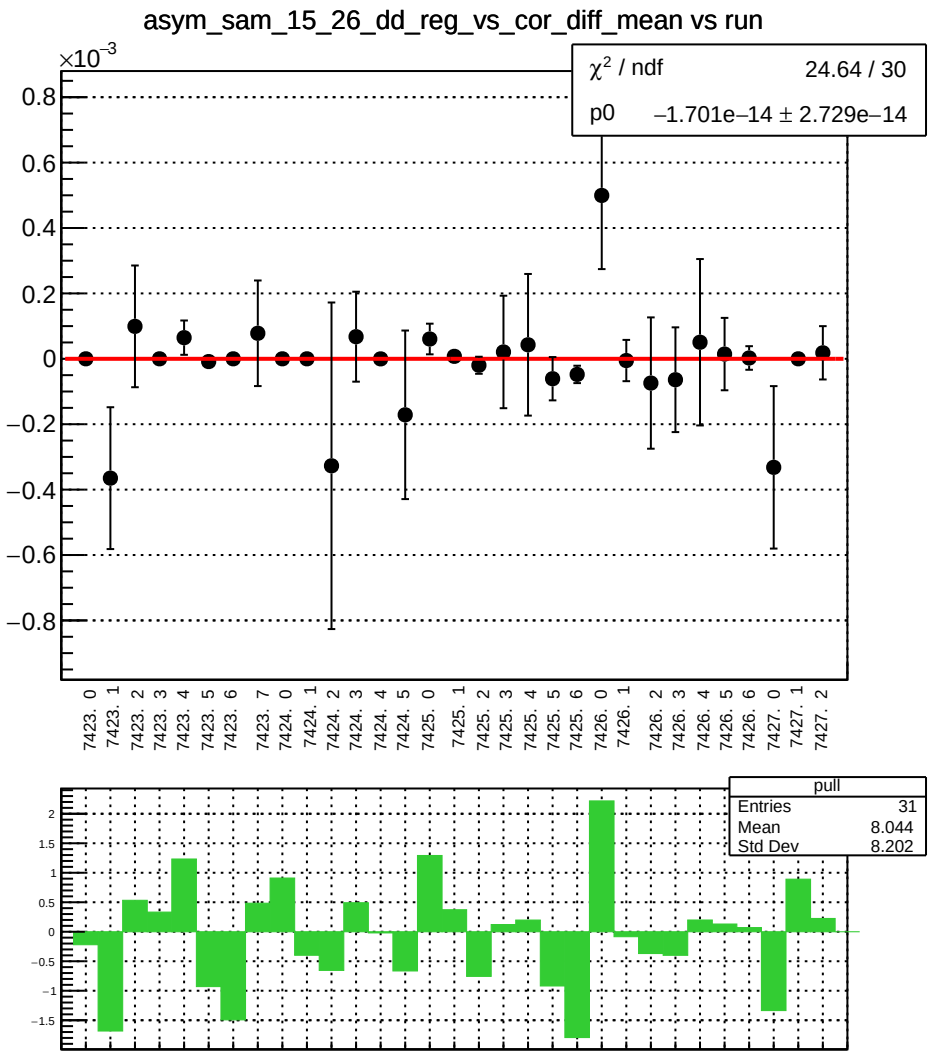

pull1D
Entries 31
Mean 0.03411
Std Dev 1.069
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

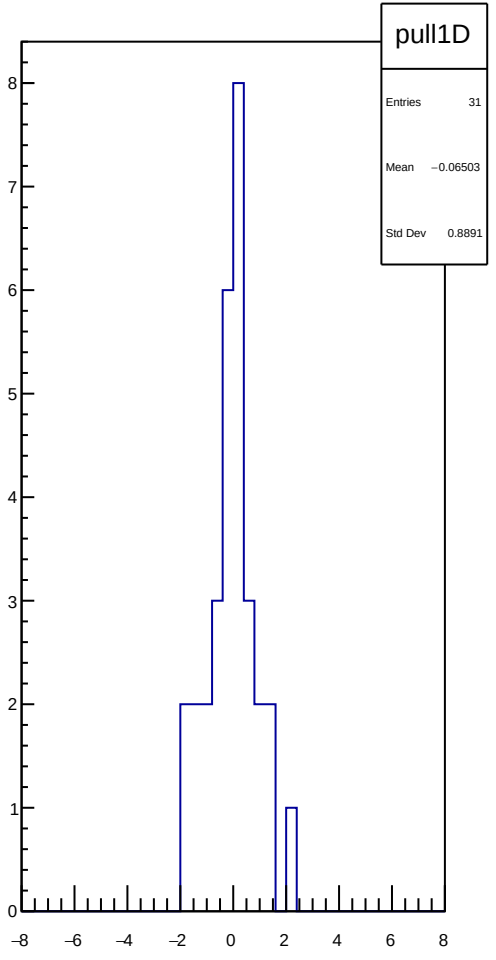

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 790.5 / 30
p0 273.7 ± 0.355
295
290
285
280
275
270
265
260
255
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

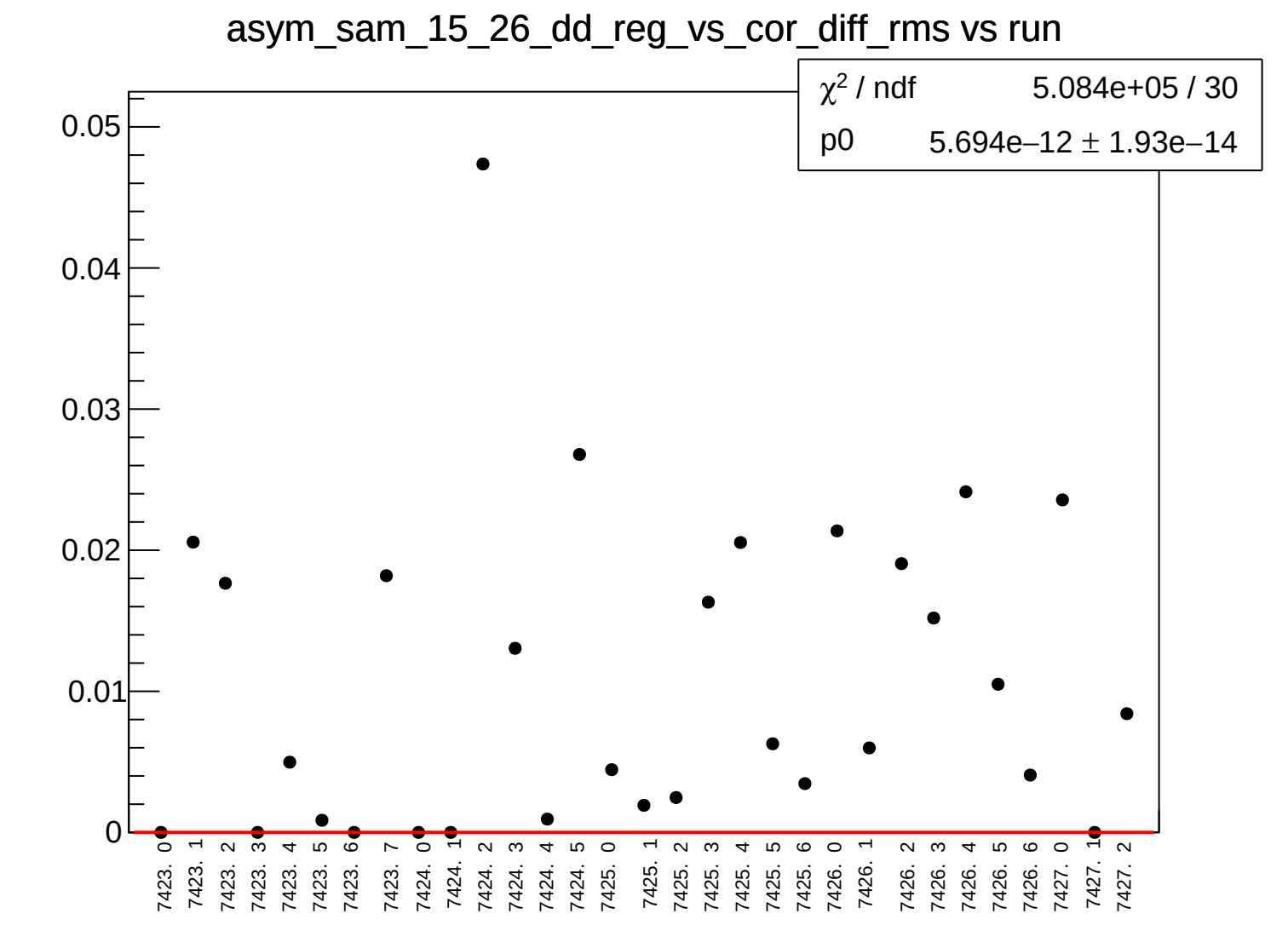

asym_sam_15_26_dd_mean vs run
χ² / ndf 35.17 / 30
p0 270.1 ± 520.4
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 30.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 31
Mean −0.03557
Std Dev 1.064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

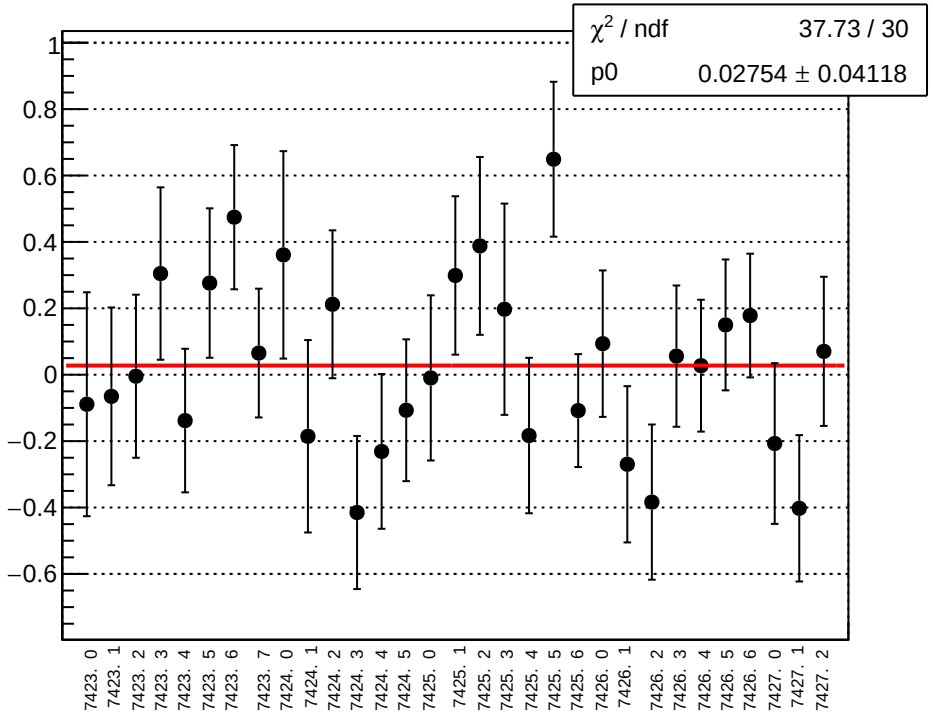

asym_sam_15_26_dd_rms vs run
χ² / ndf 940.1 / 30
p0 283.8 ± 0.368
320
310
300
290
280
270
260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

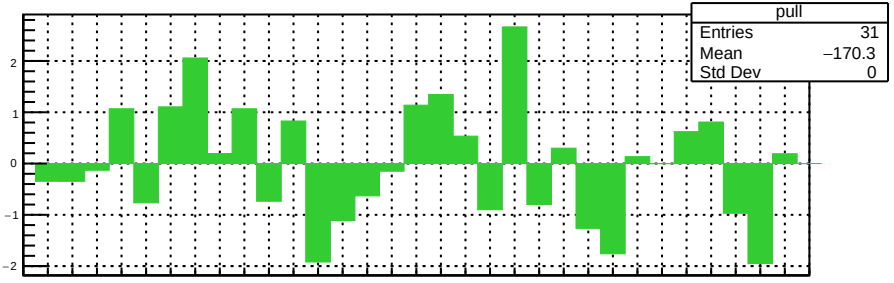

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 24.64 / 30
p0 −1.701e−14 ± 2.729e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.044
Std Dev 8.202
2
1.5
1
0.5
0
−0.5
−1
−1.5

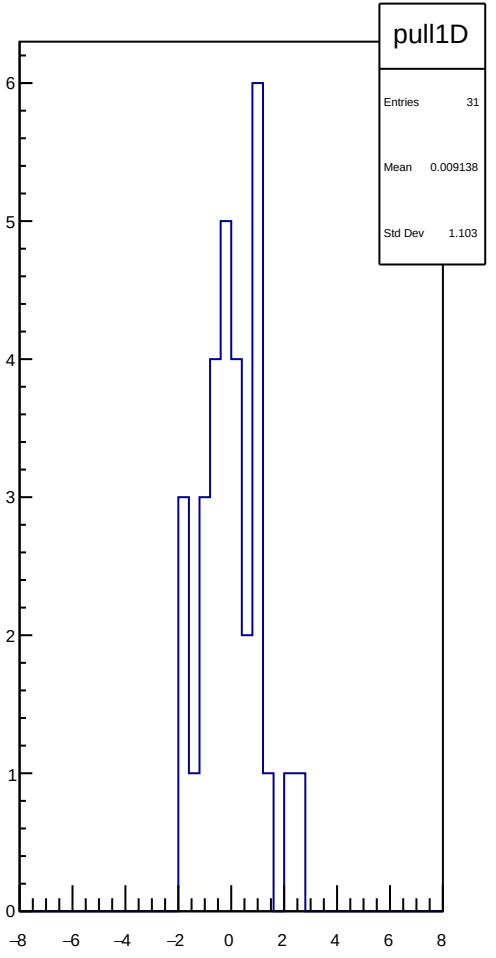

pull1D
Entries 31
Mean −0.06503
Std Dev 0.8891
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

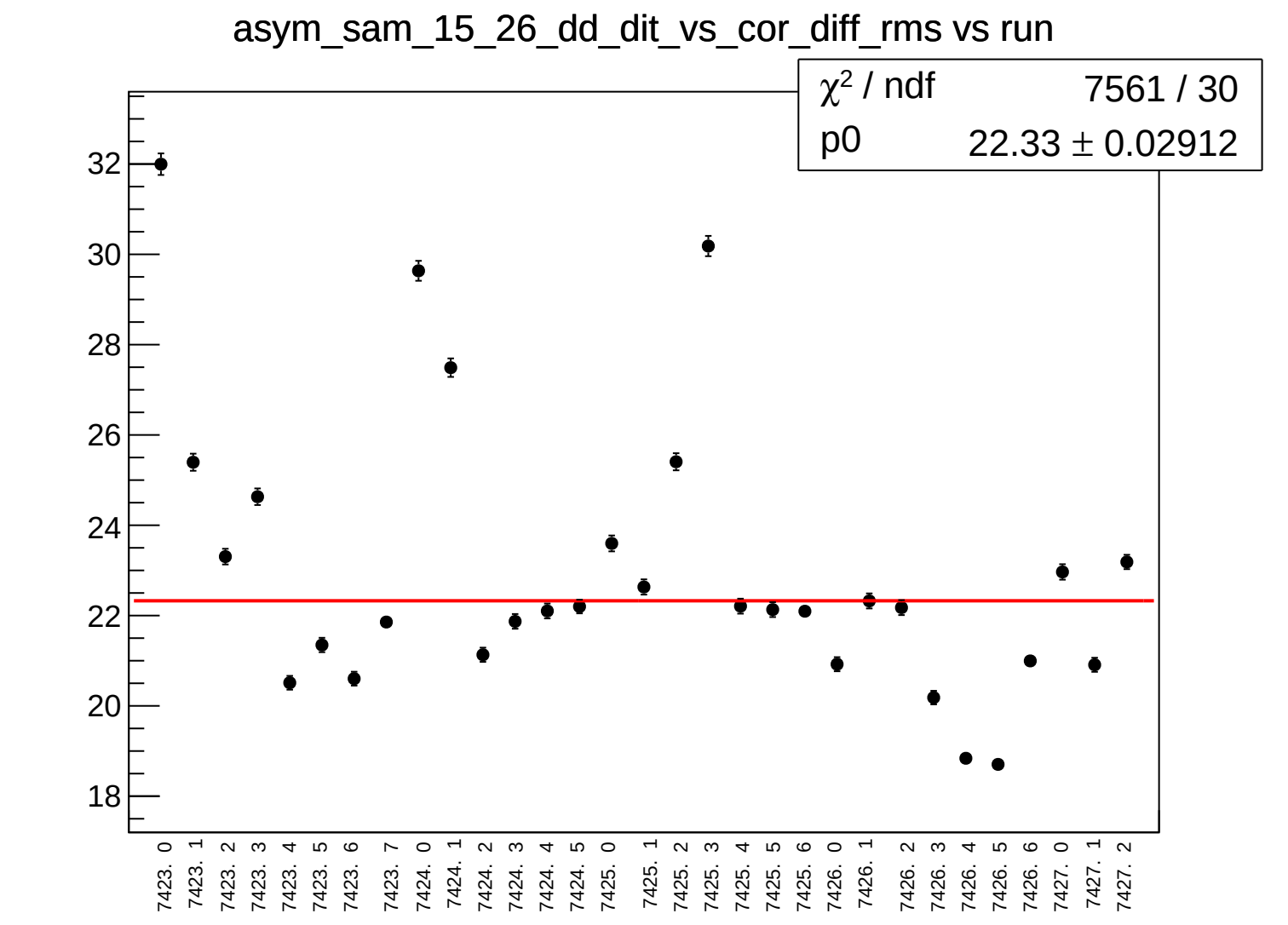

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.084e+05 / 30
p0 5.694e−12 ± 1.93e−14
0.05
0.04
0.03
0.02
0.01
0
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

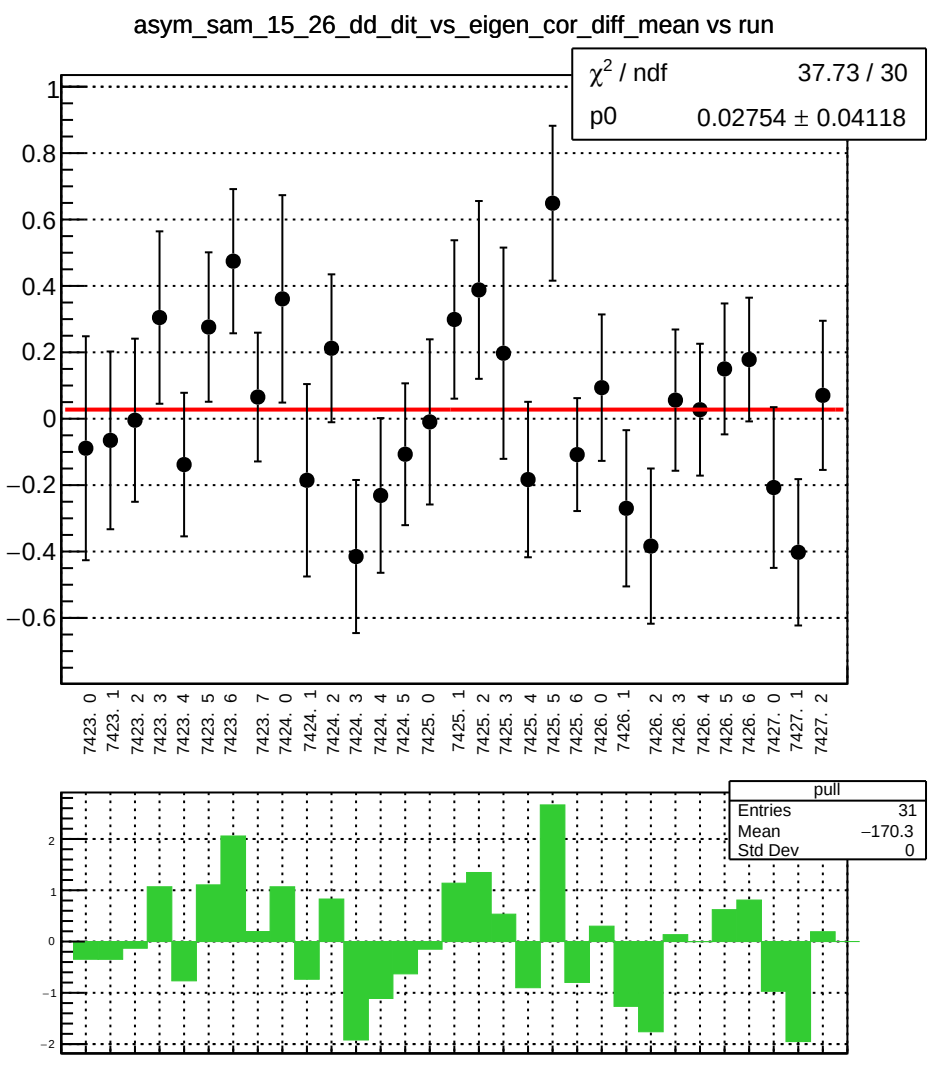
asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run

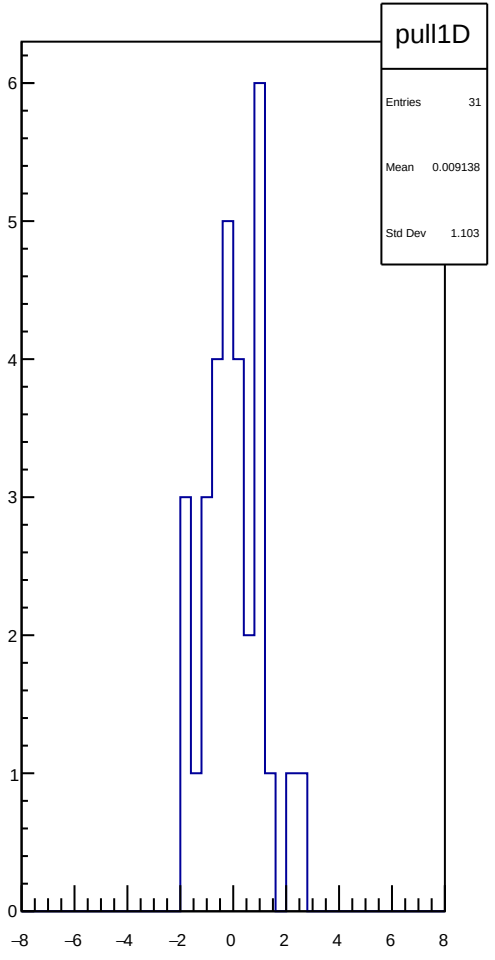


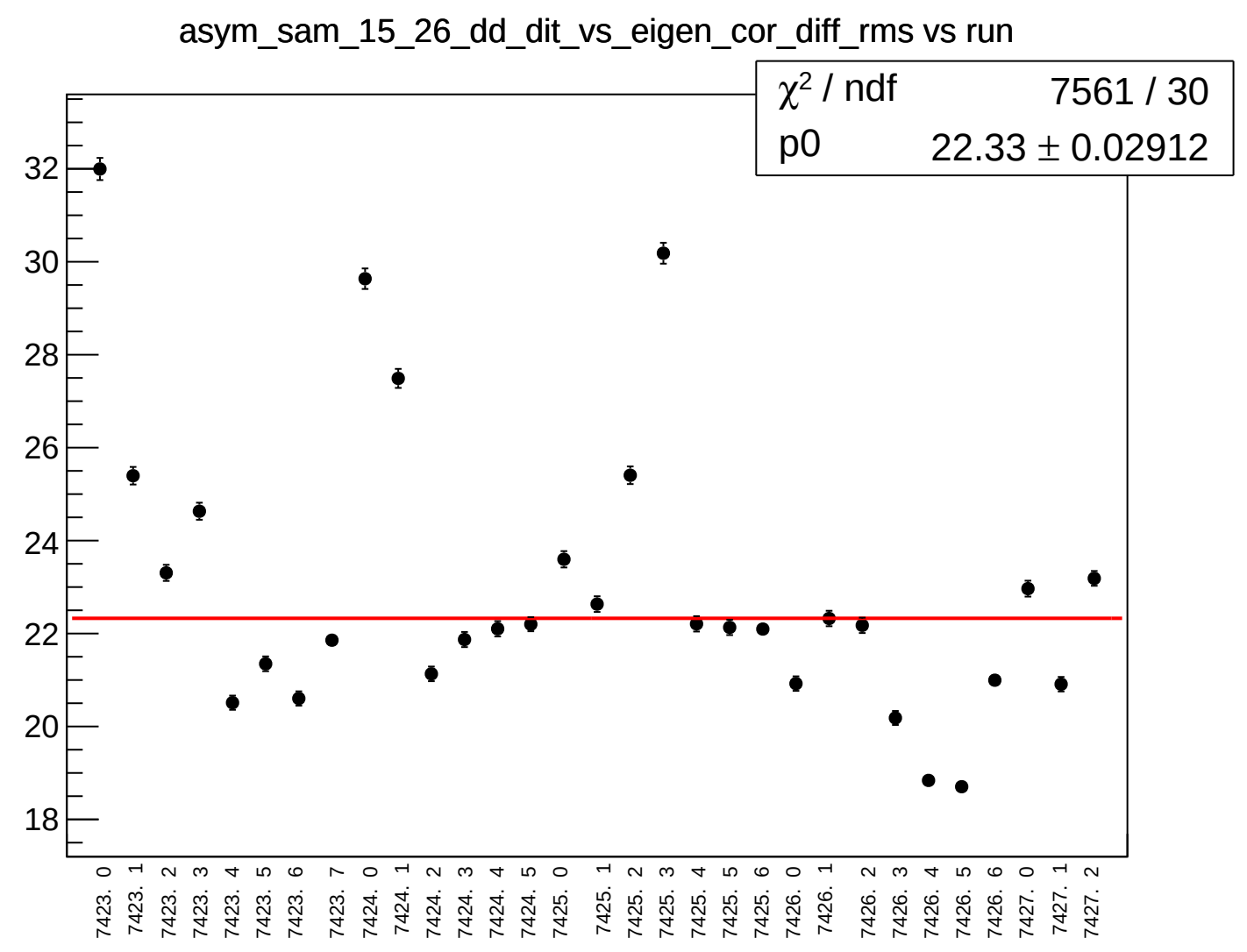


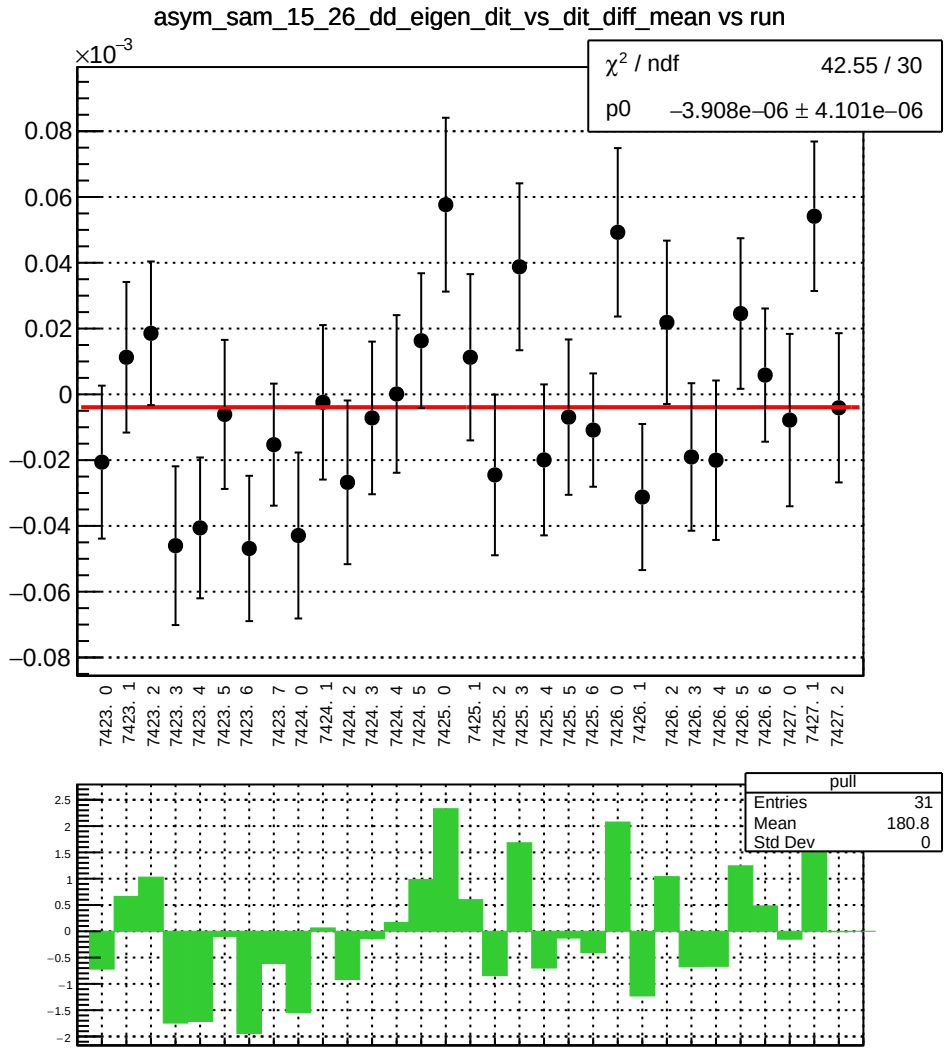


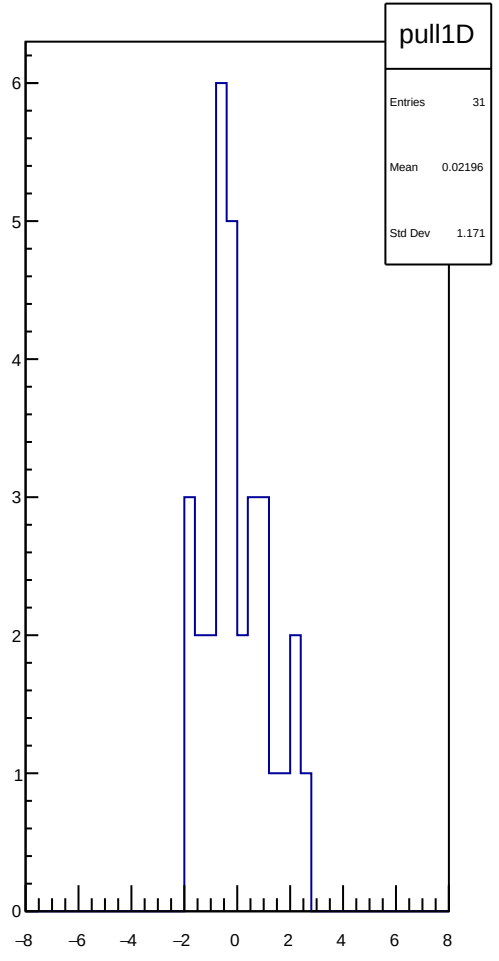

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7561 / 30
p0 22.33 ± 0.02912
32
30
28
26
24
22
20
18
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

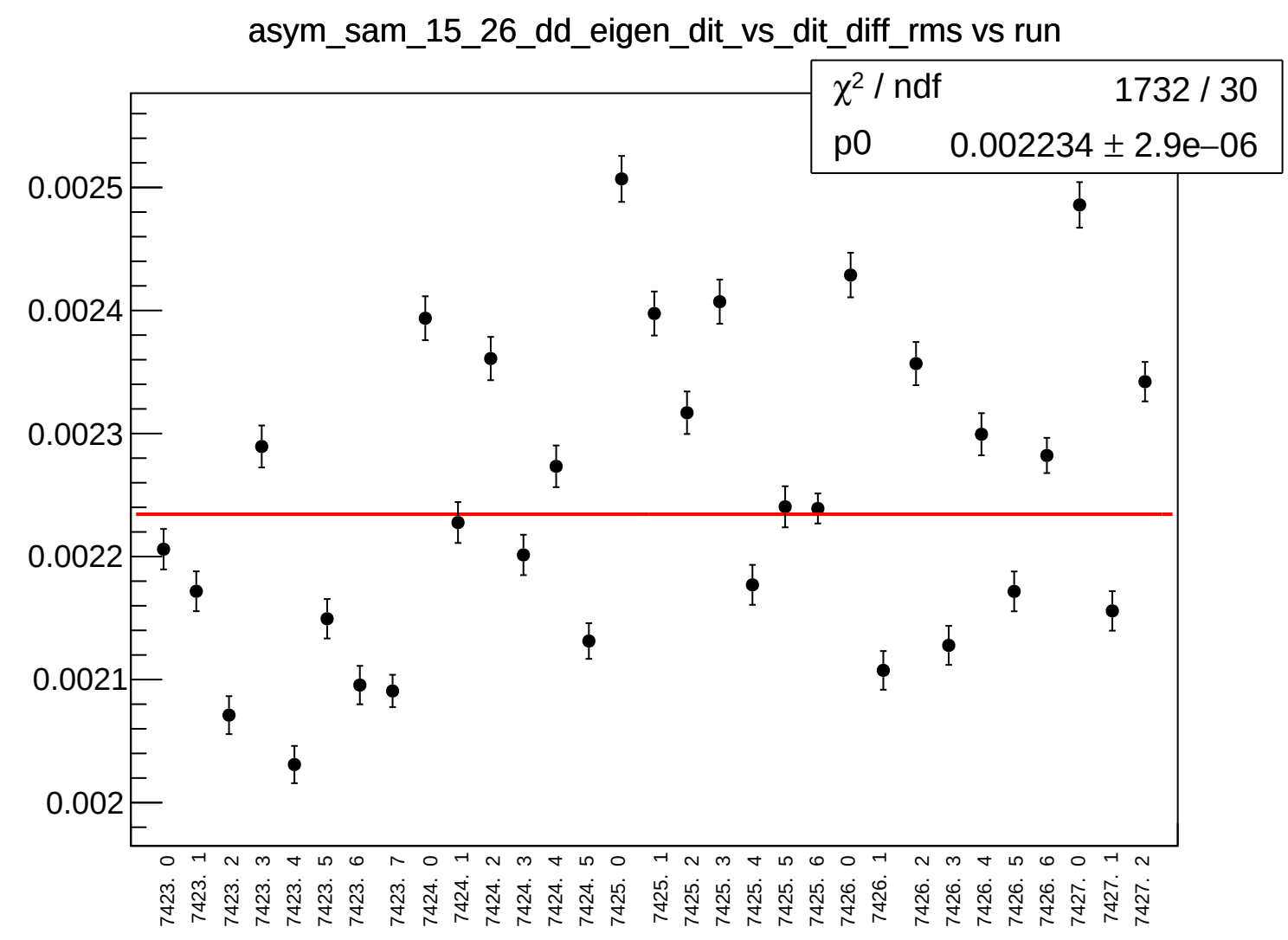

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.73 / 30
p0 0.02754 ± 0.04118
pull
Entries 31
Mean −170.3
Std Dev 0

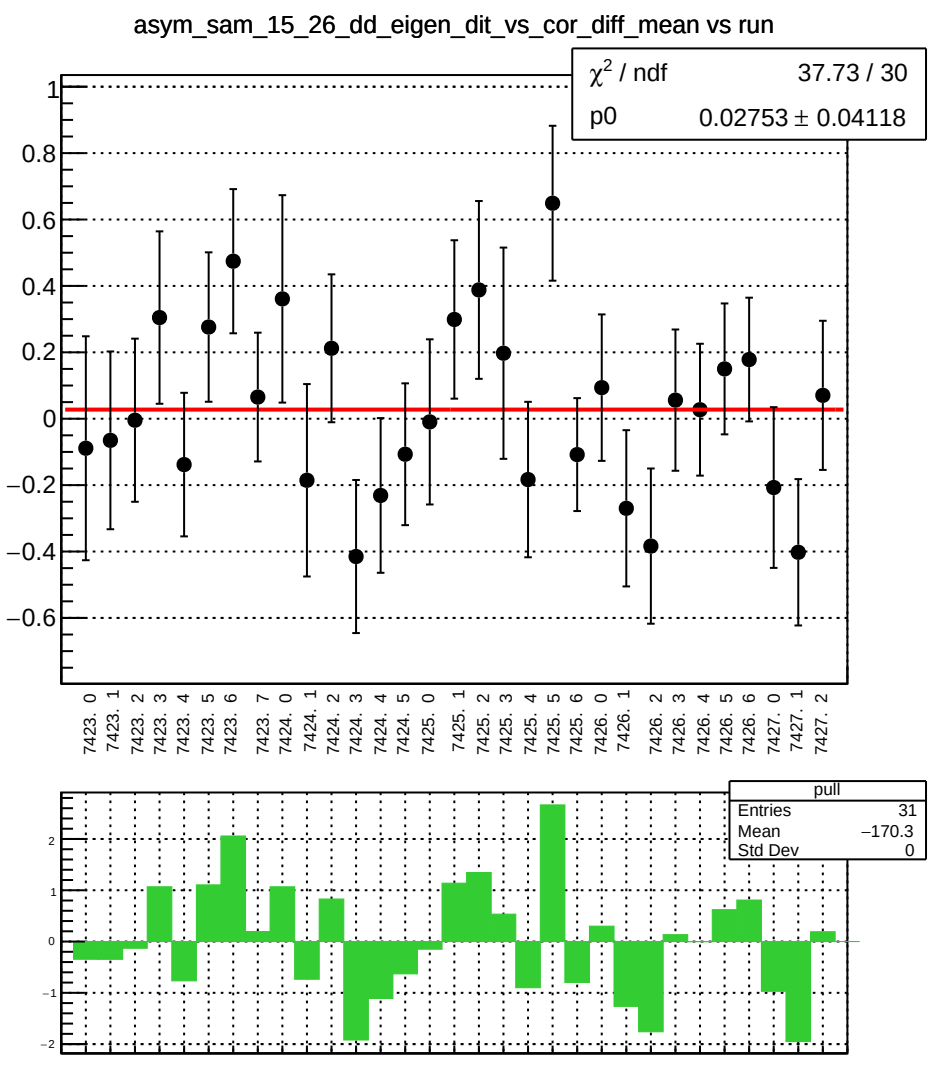

pull1D
Entries 31
Mean 0.009138
Std Dev 1.103

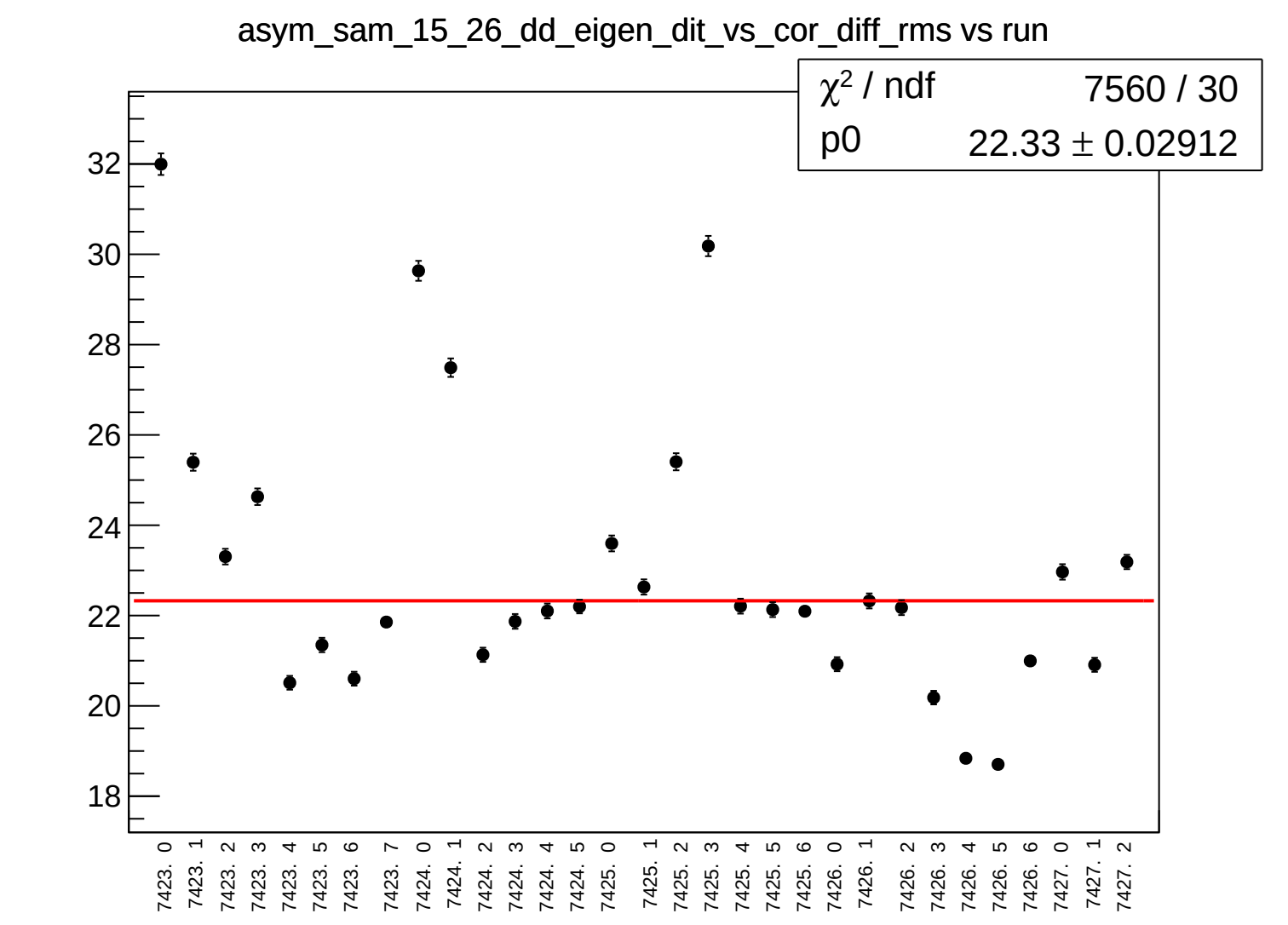

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7561 / 30
p0 22.33 ± 0.02912
32
30
28
26
24
22
20
18
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.55 / 30
p0 −3.908e−06 ± 4.101e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 180.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

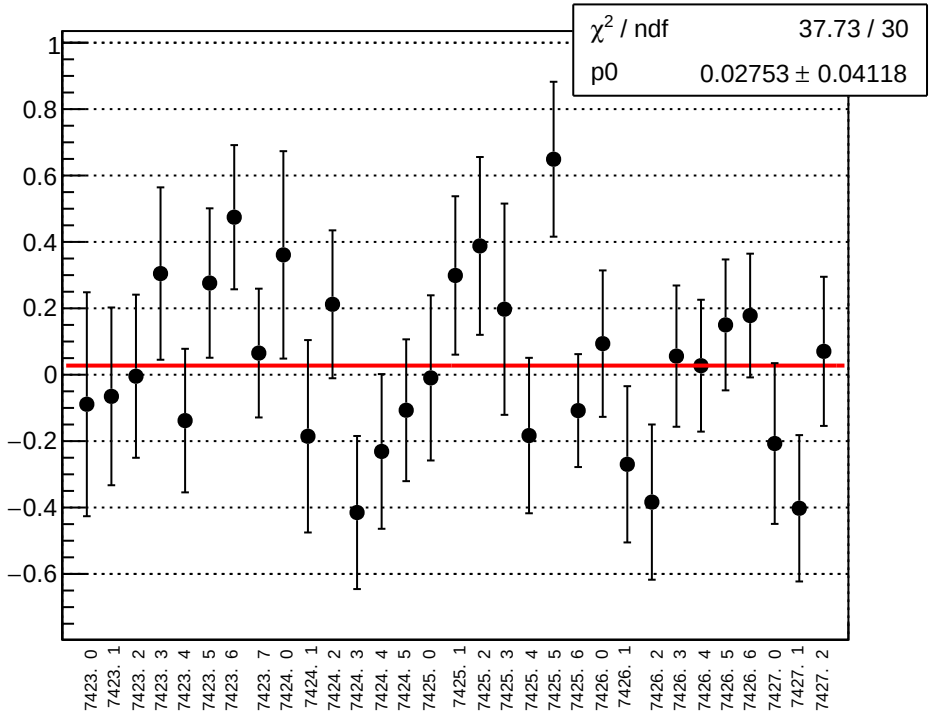

pull1D
Entries 31
Mean 0.02196
Std Dev 1.171
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

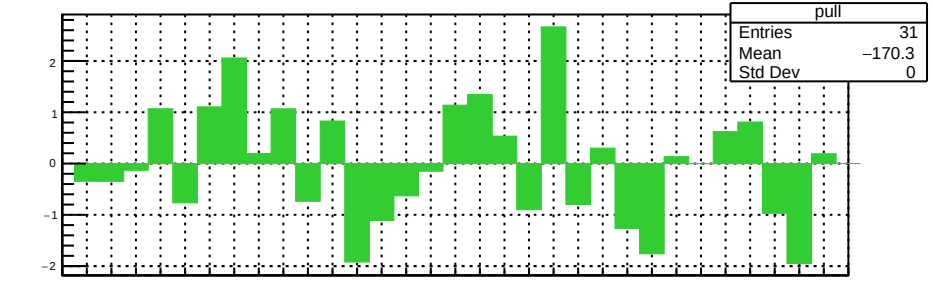

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1732 / 30
p0 0.002234 ± 2.9e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

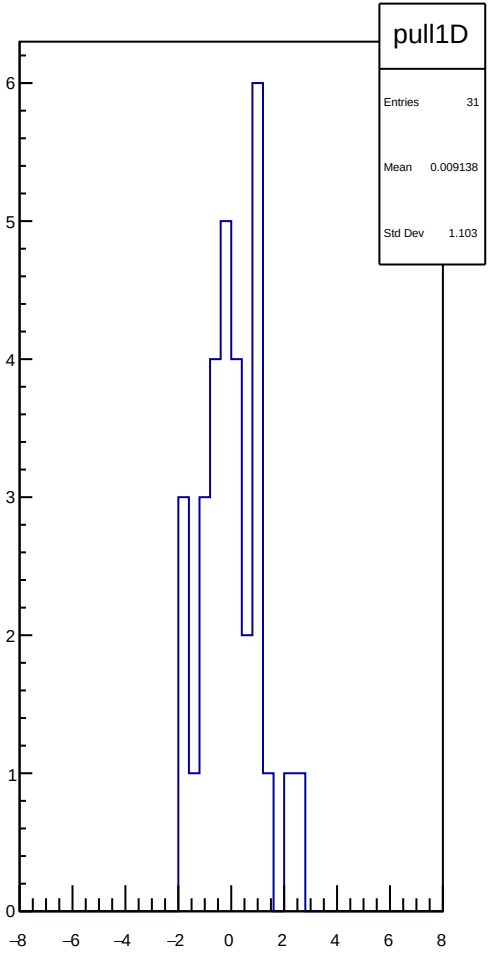

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.73 / 30
p0 0.02753 ± 0.04118
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −170.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.009138
Std Dev 1.103
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

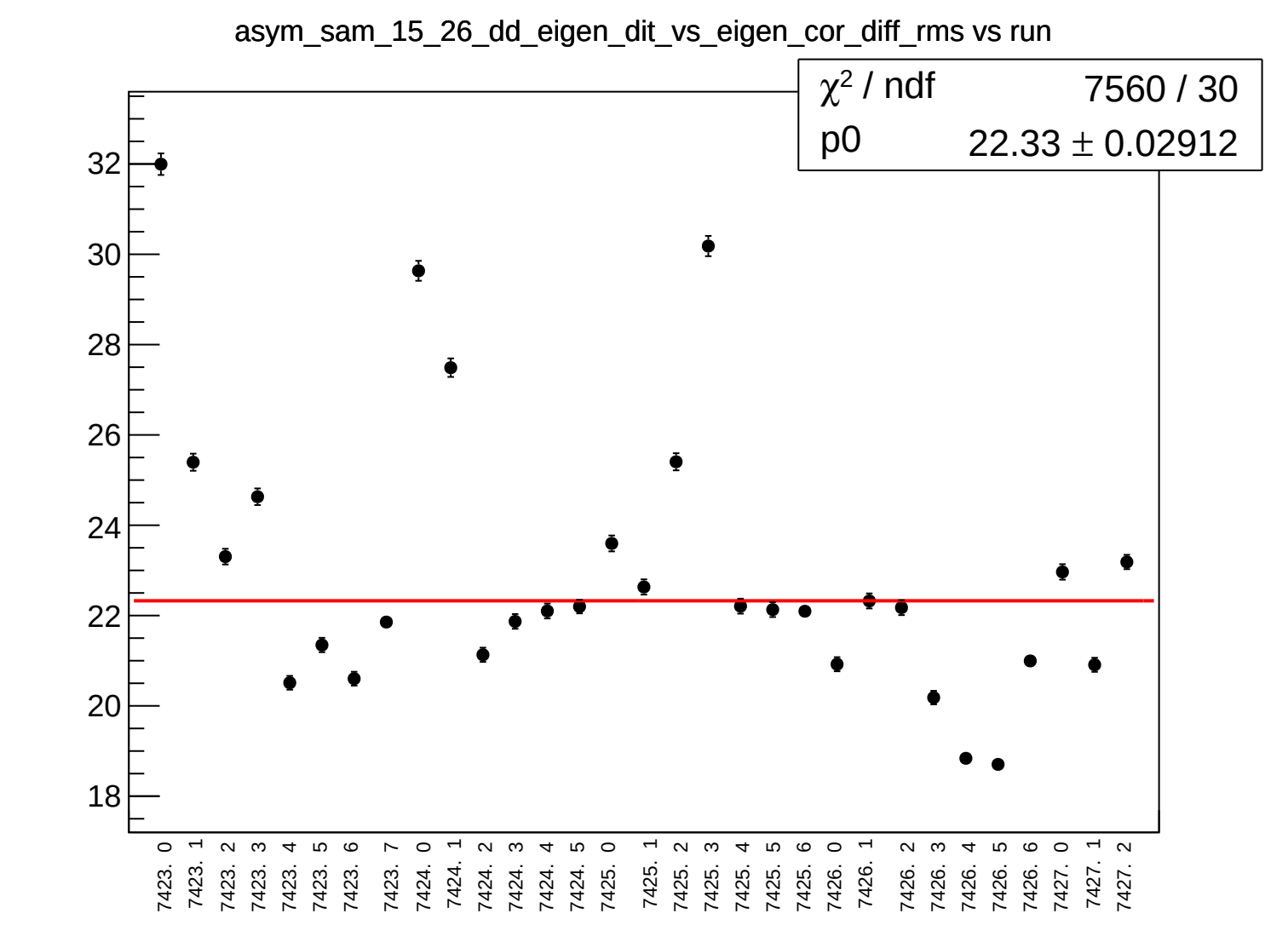

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7560 / 30
p0 22.33 ± 0.02912
32
30
28
26
24
22
20
18
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

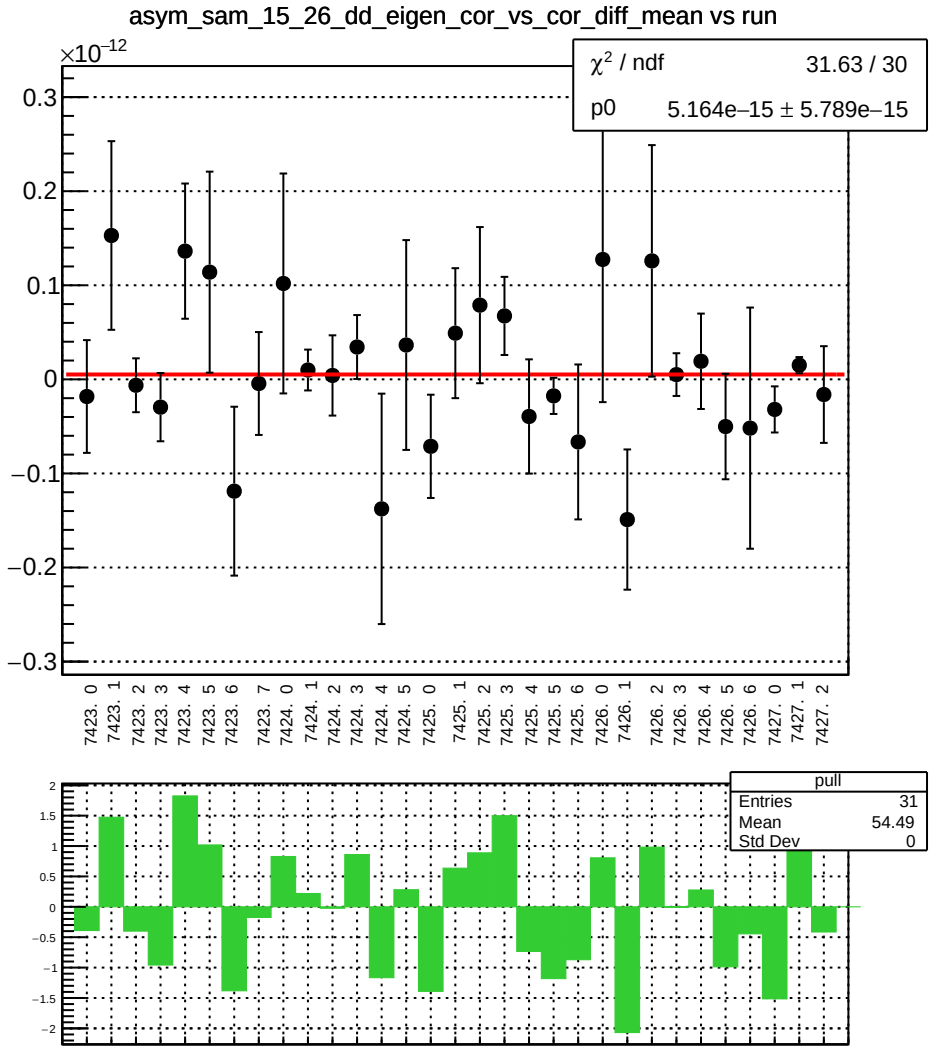
asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

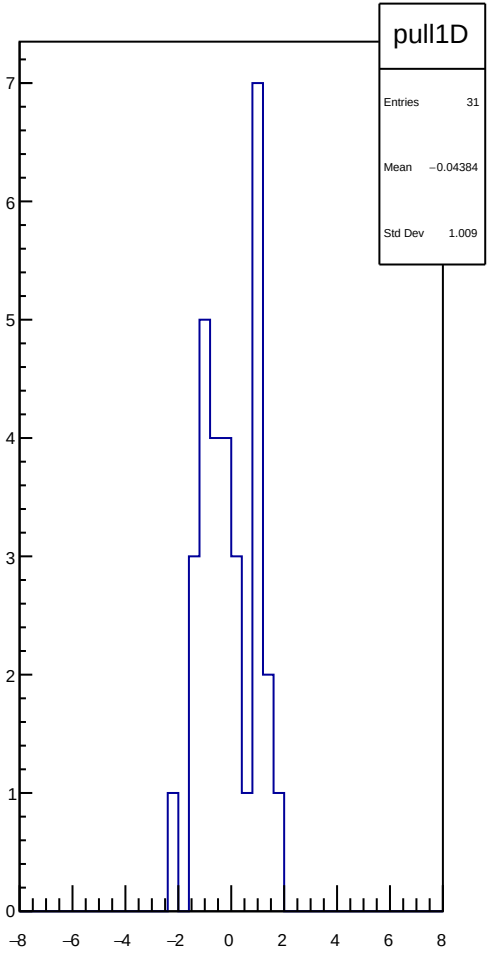


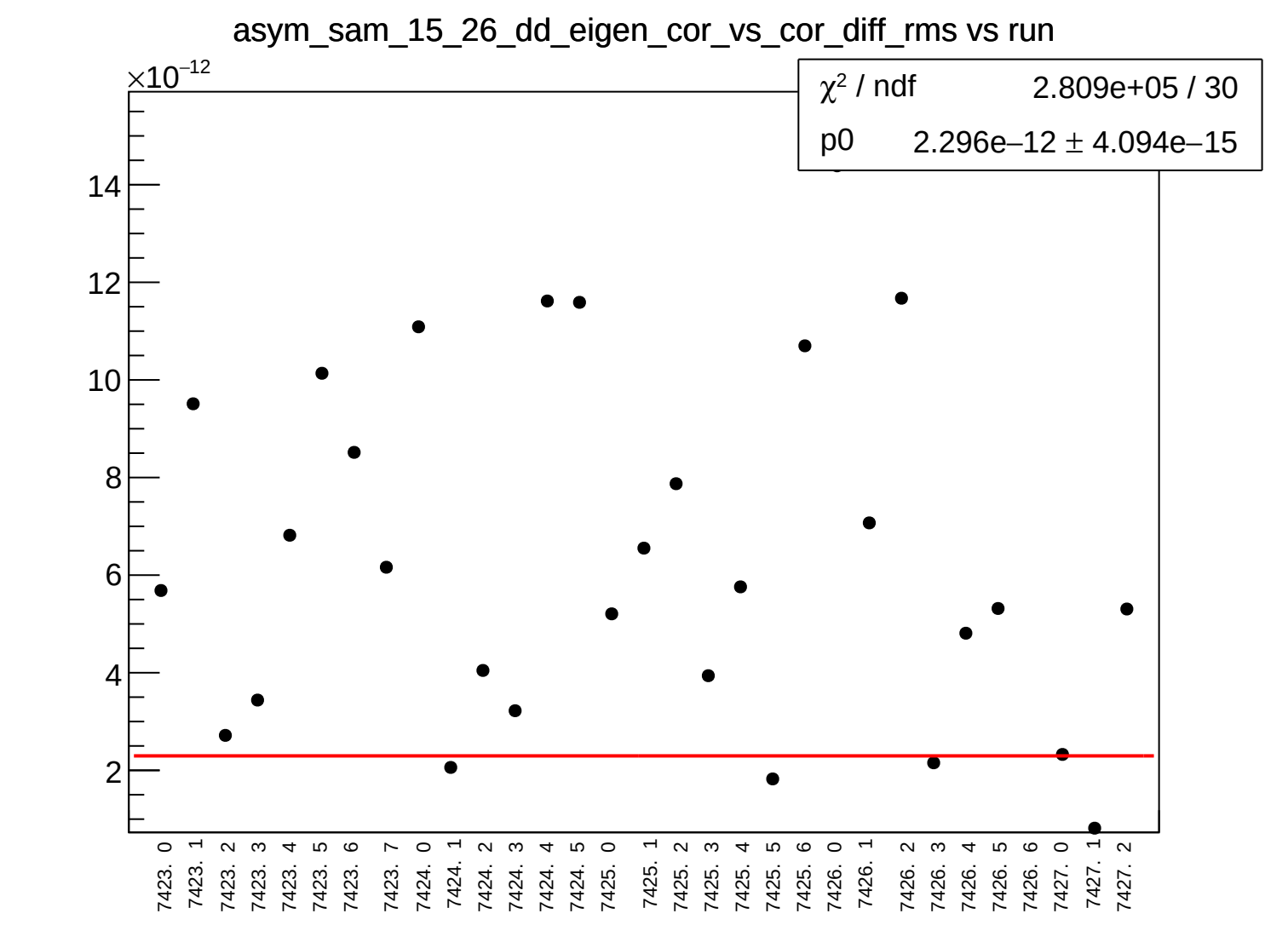


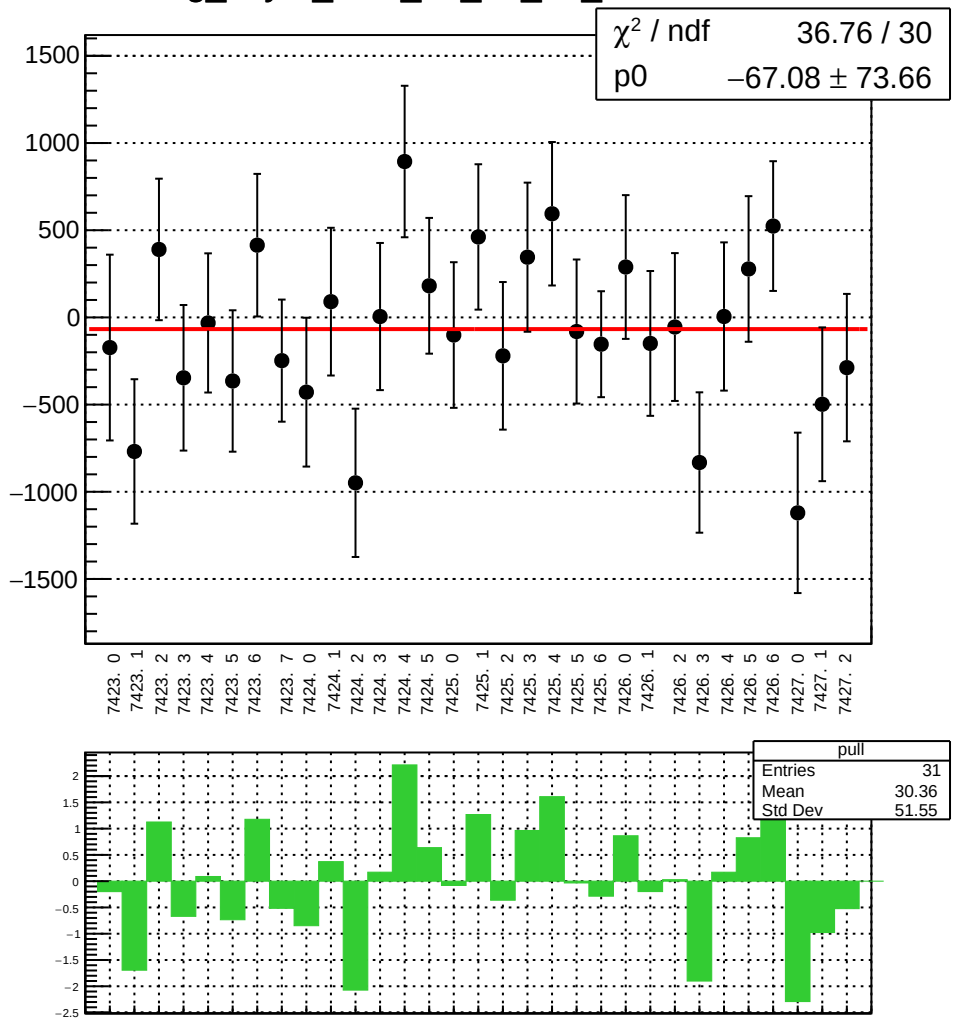


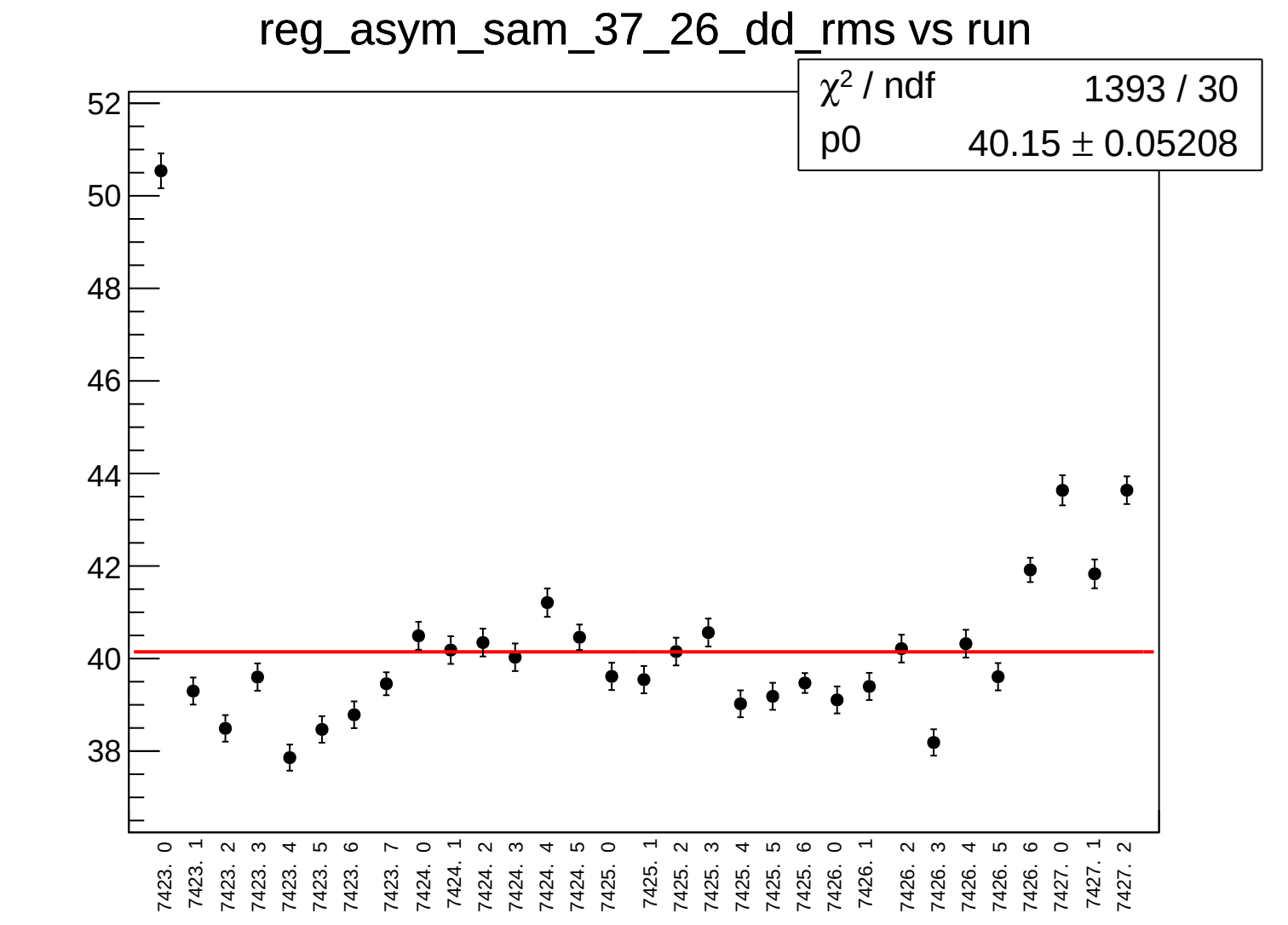

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7560 / 30
p0 22.33 ± 0.02912
32
30
28
26
24
22
20
18
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

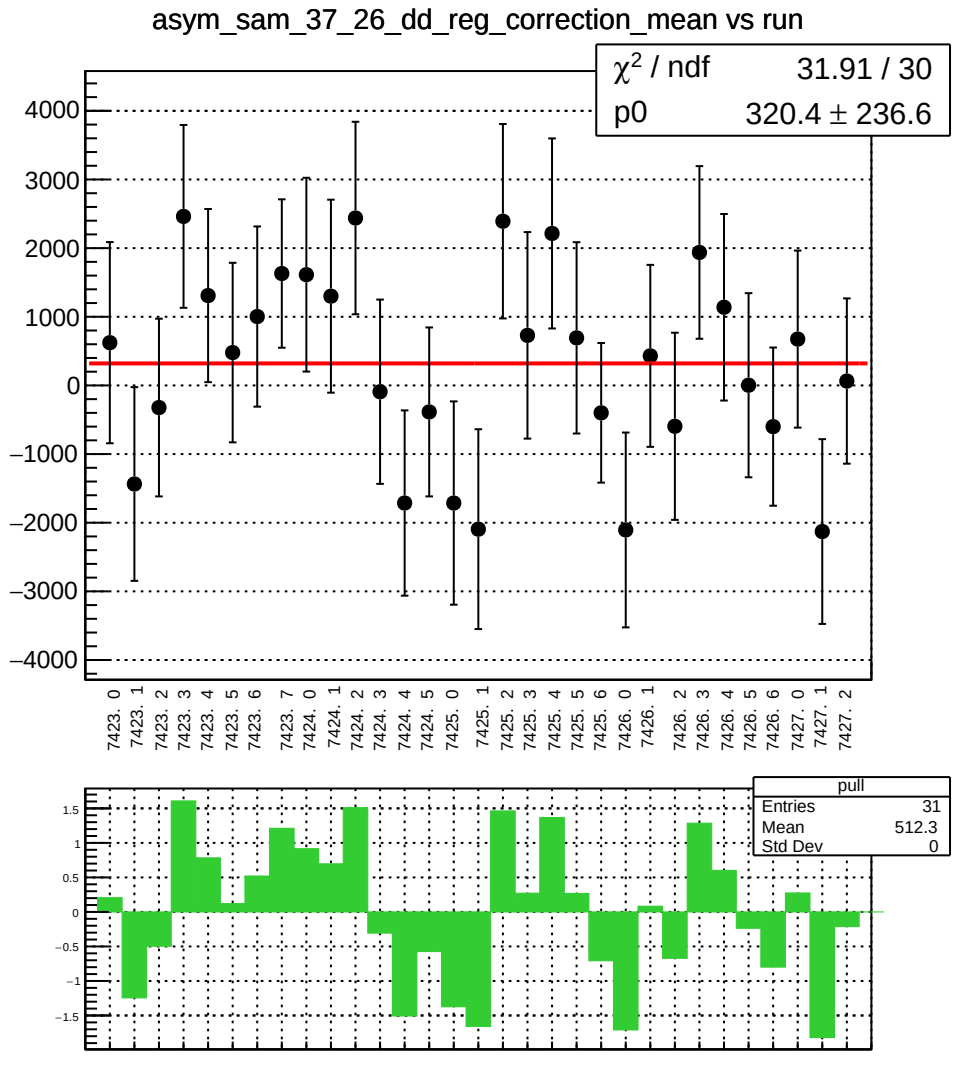

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.63 / 30
p0 5.164e−15 ± 5.789e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 54.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

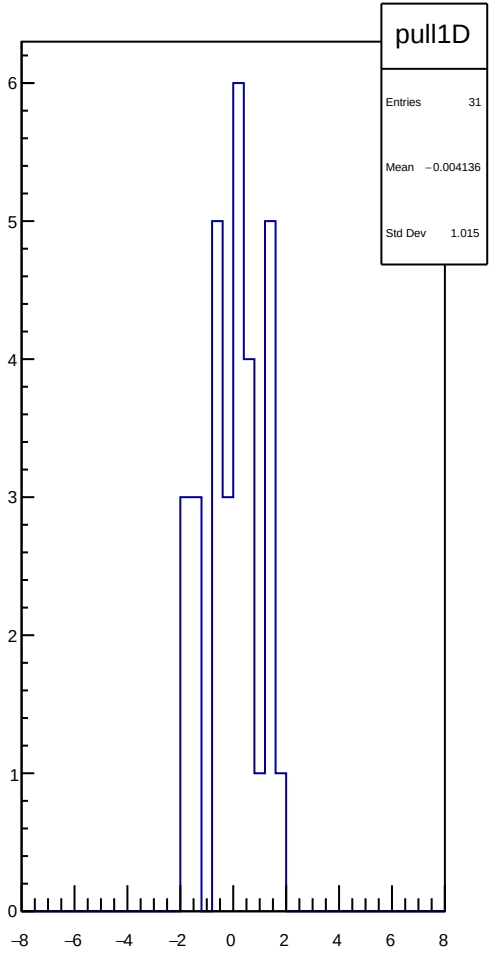

pull1D
Entries 31
Mean −0.04384
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

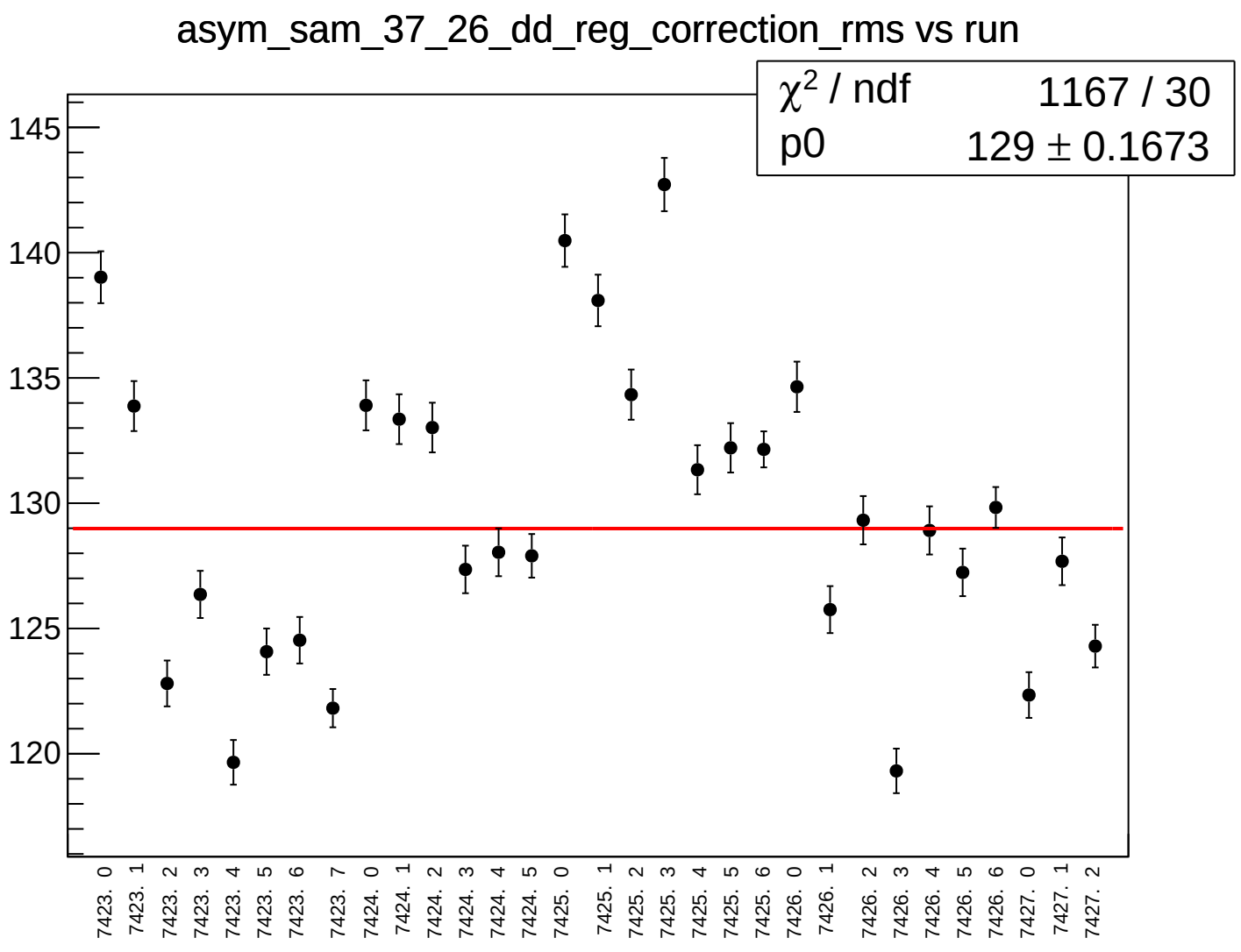

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.809e+05 / 30
p0 2.296e−12 ± 4.094e−15
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

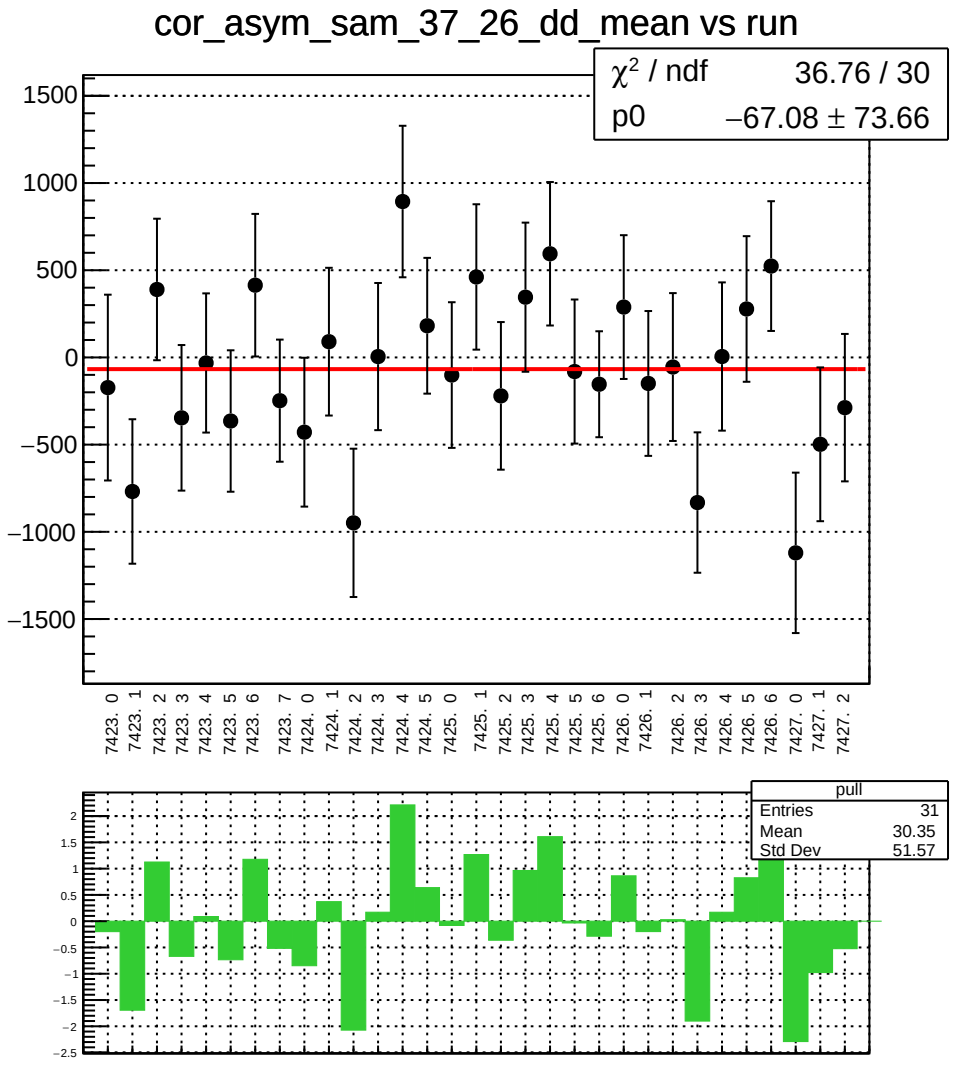

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 36.76 / 30
p0 −67.08 ± 73.66
1500
1000
500
0
−500
−1000
−1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 30.36
Std Dev 51.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.009067
Std Dev 1.089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

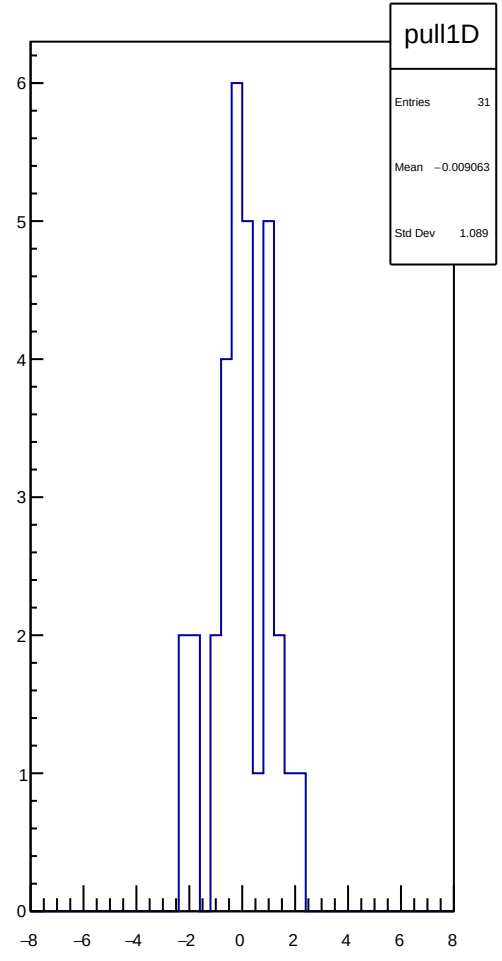

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1393 / 30
p0 40.15 ± 0.05208
52
50
48
46
44
42
40
38
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

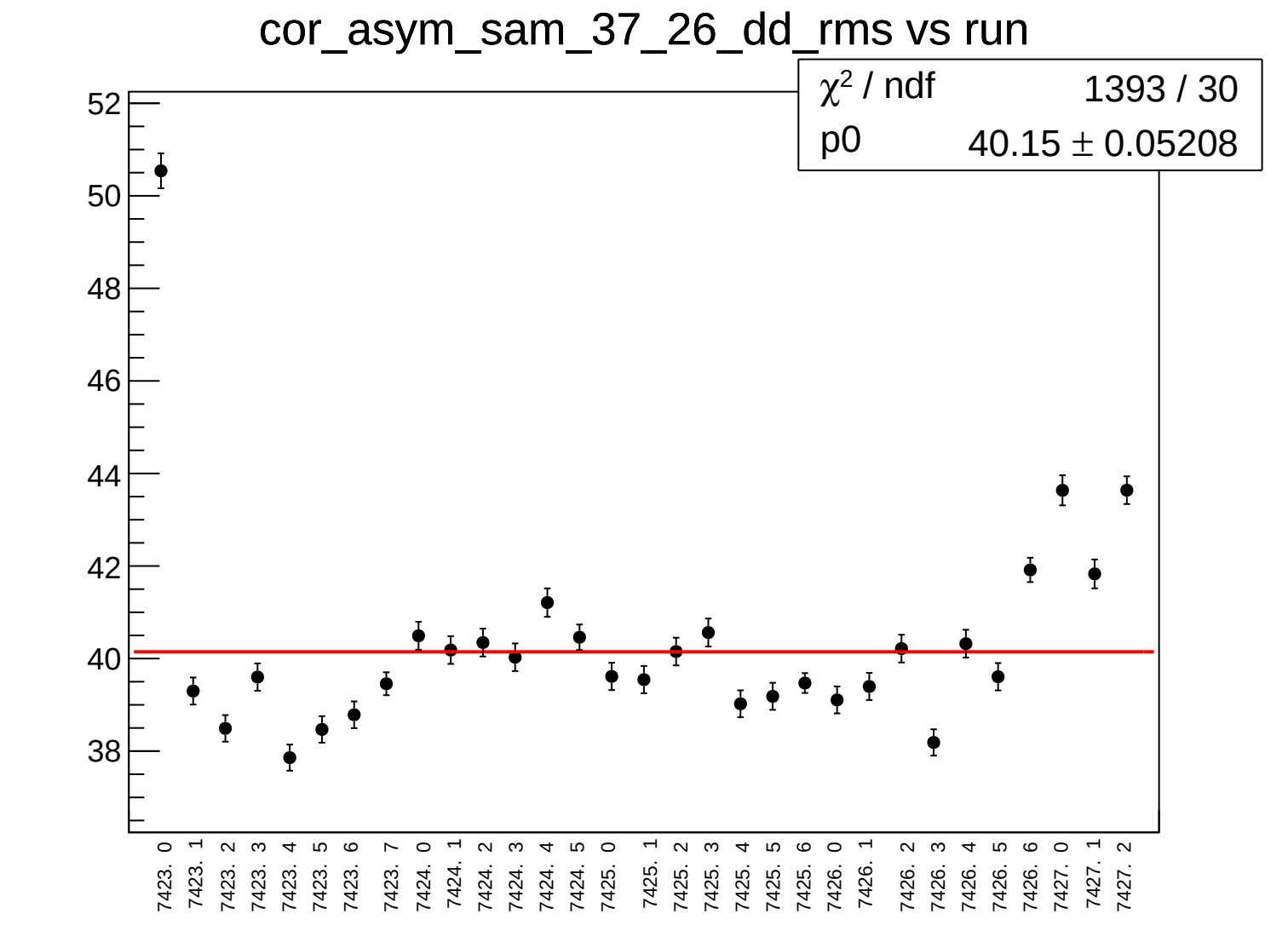

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 31.91 / 30
p0 320.4 ± 236.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 512.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

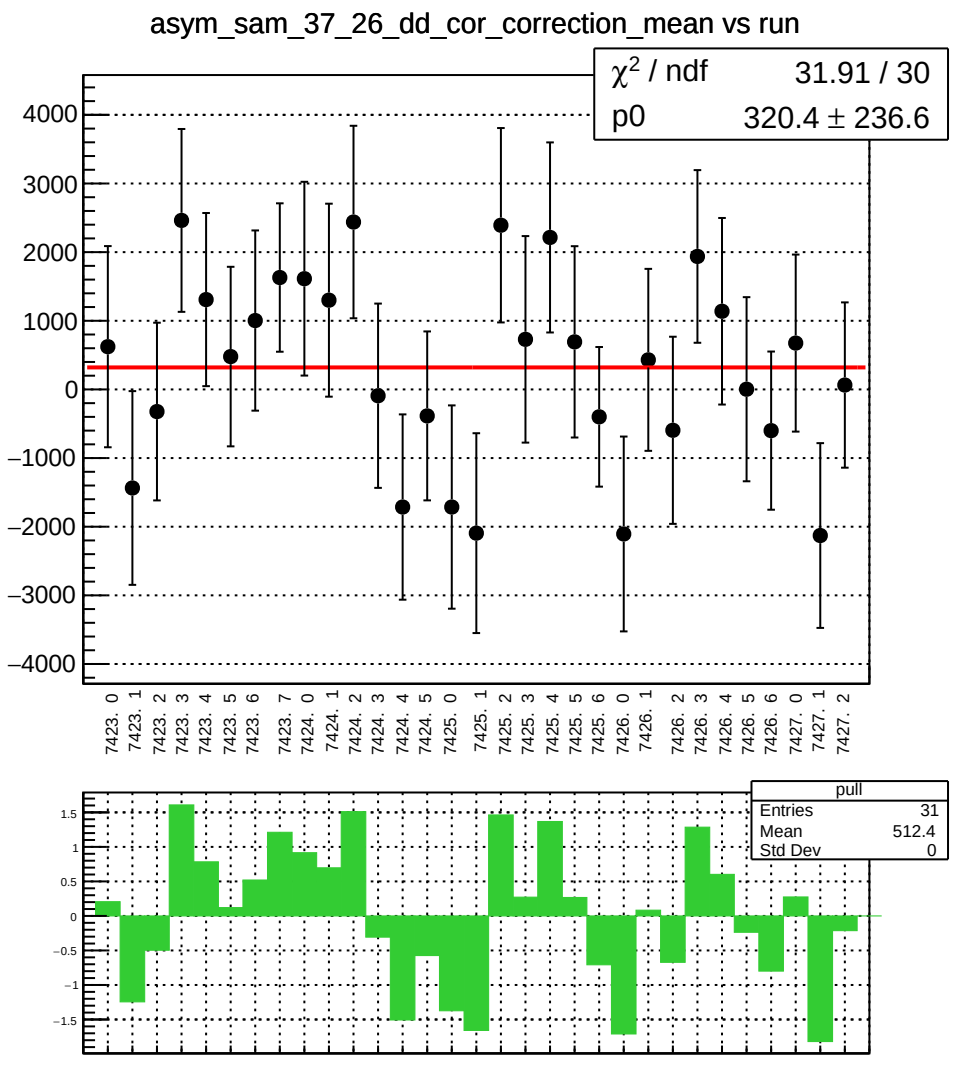

pull1D
Entries 31
Mean −0.004136
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

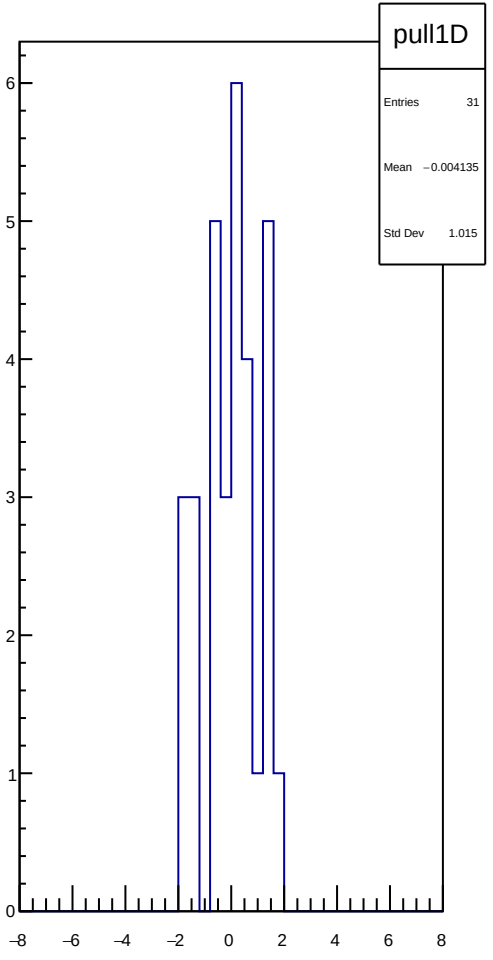

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1167 / 30
p0 129 ± 0.1673
145
140
135
130
125
120
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

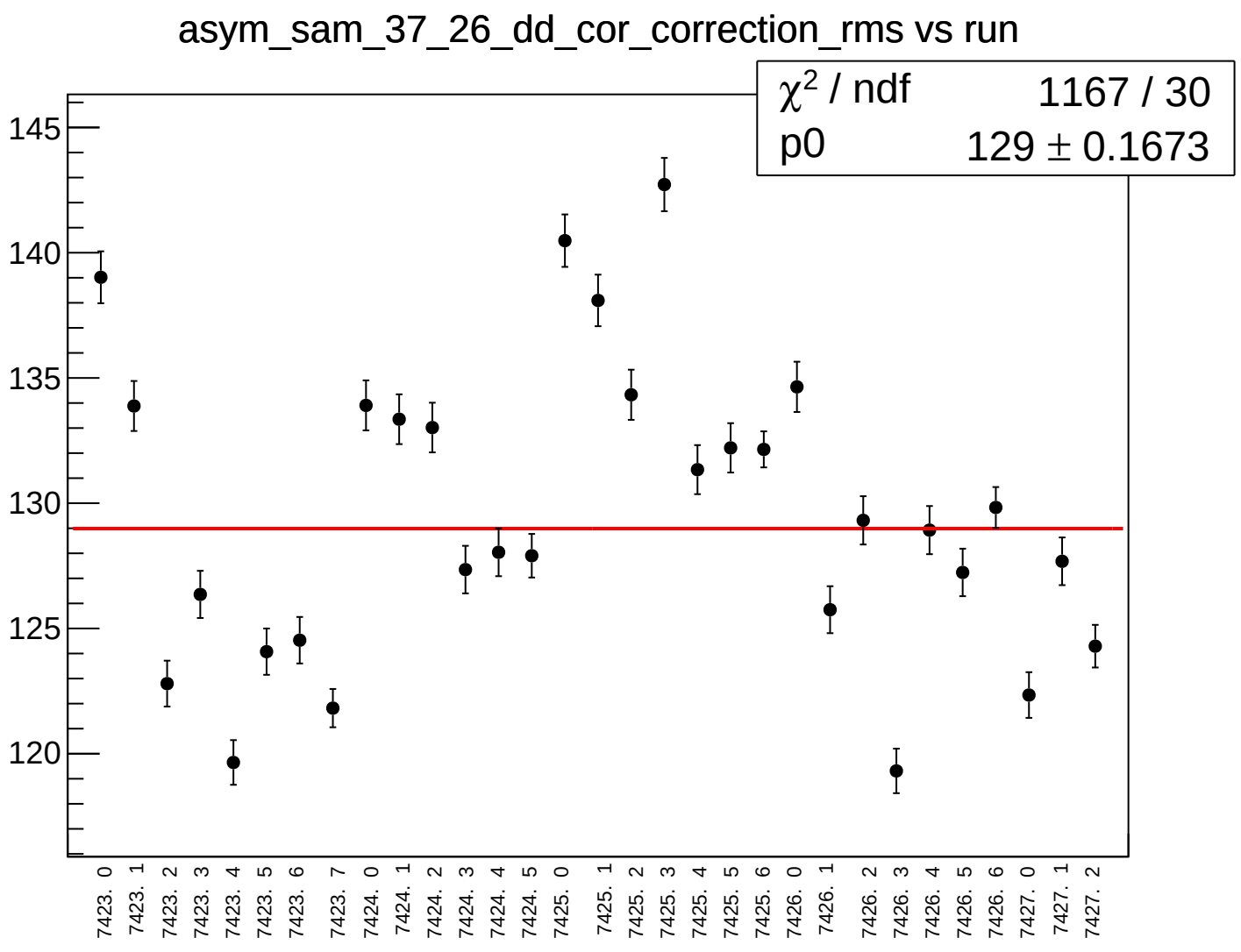

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 36.76 / 30
p0 −67.08 ± 73.66
1500
1000
500
0
−500
−1000
−1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 30.35
Std Dev 51.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

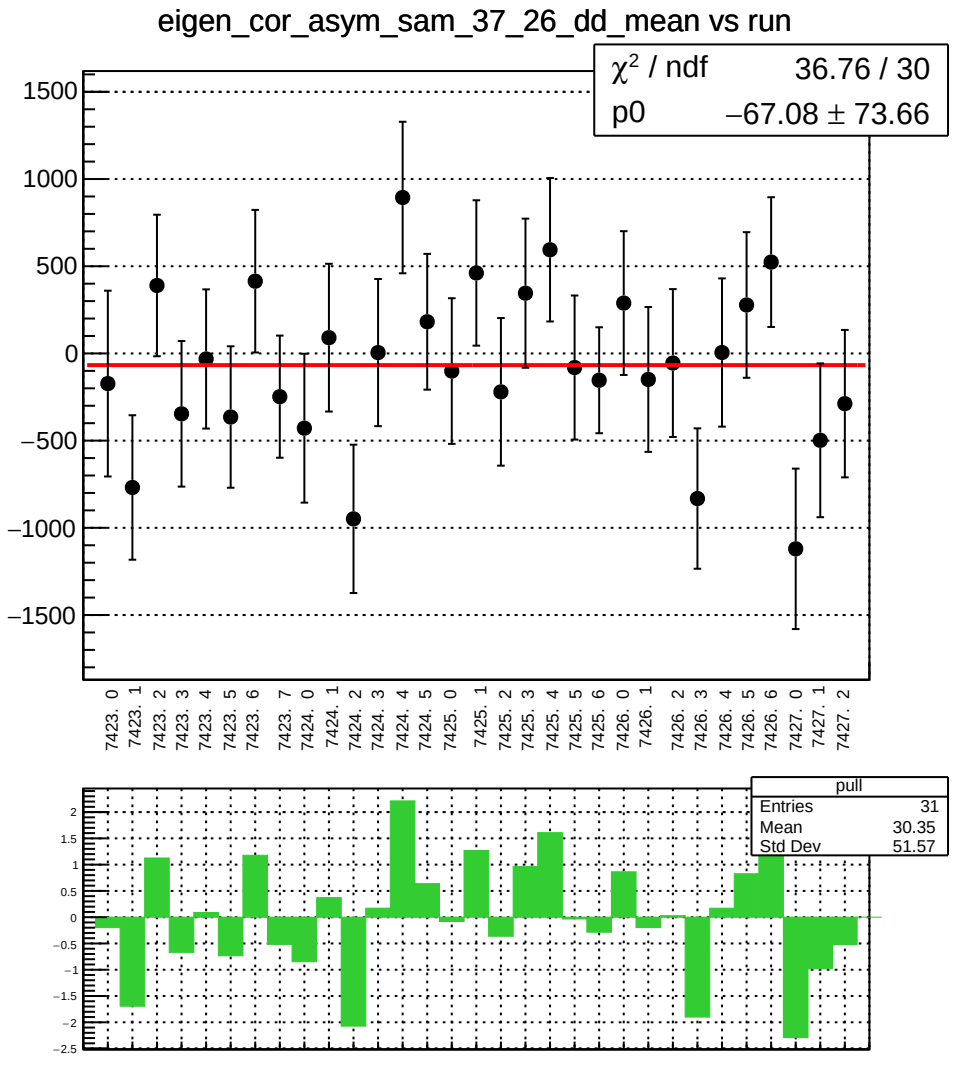

pull1D
Entries 31
Mean −0.009063
Std Dev 1.089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

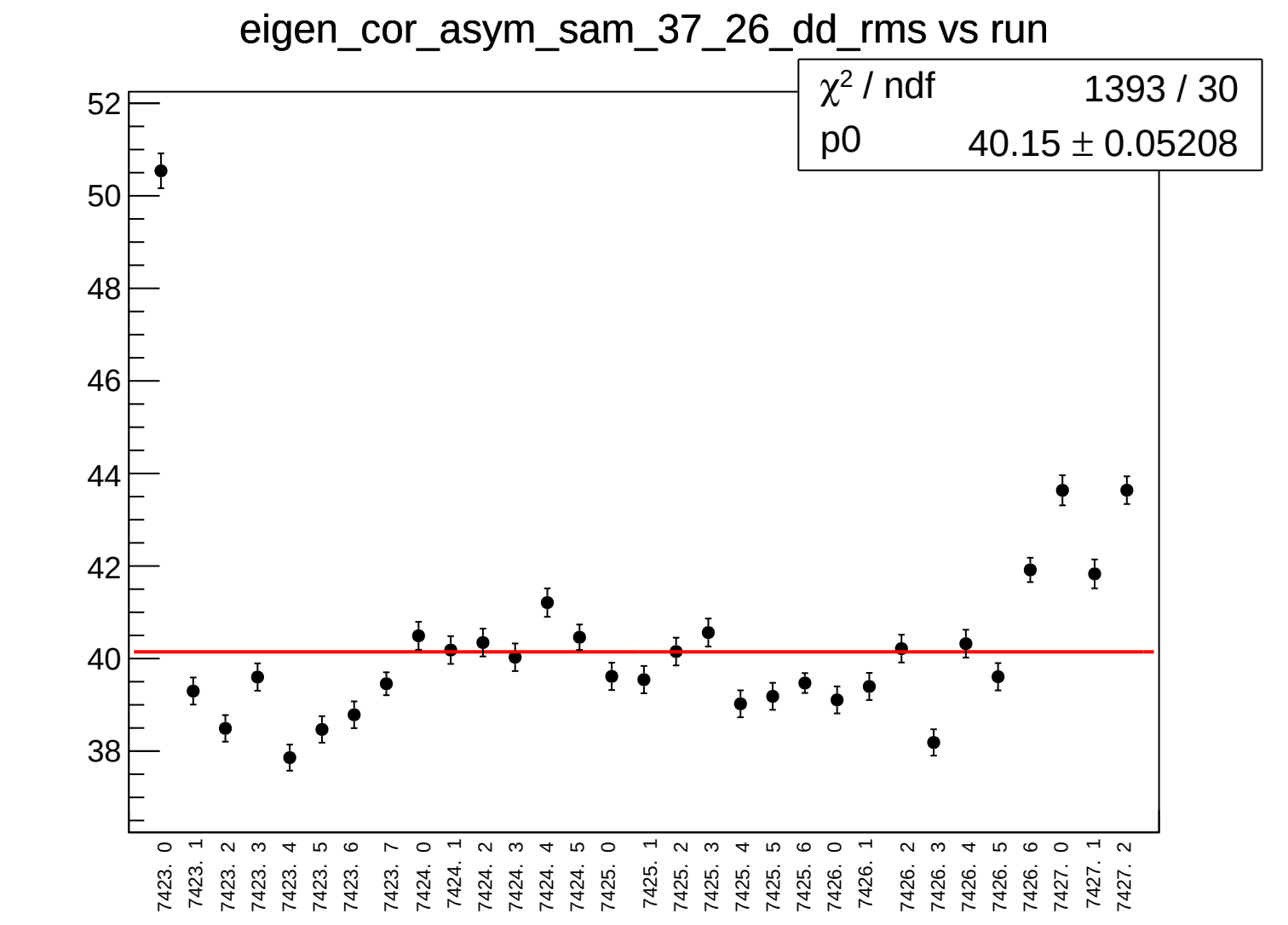

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1393 / 30
p0 40.15 ± 0.05208
52
50
48
46
44
42
40
38
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 31.91 / 30
p0 320.4 ± 236.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 512.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean −0.004135
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_cor_correction_rms vs run
χ^2 / ndf 1167 / 30
p0 129 ± 0.1673
145
140
135
130
125
120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 36.76 / 30
p0 −67.08 ± 73.66
1500
1000
500
0
−500
−1000
−1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 30.35
Std Dev 51.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.009063
Std Dev 1.089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1393 / 30
p0 40.15 ± 0.05208
52
50
48
46
44
42
40
38
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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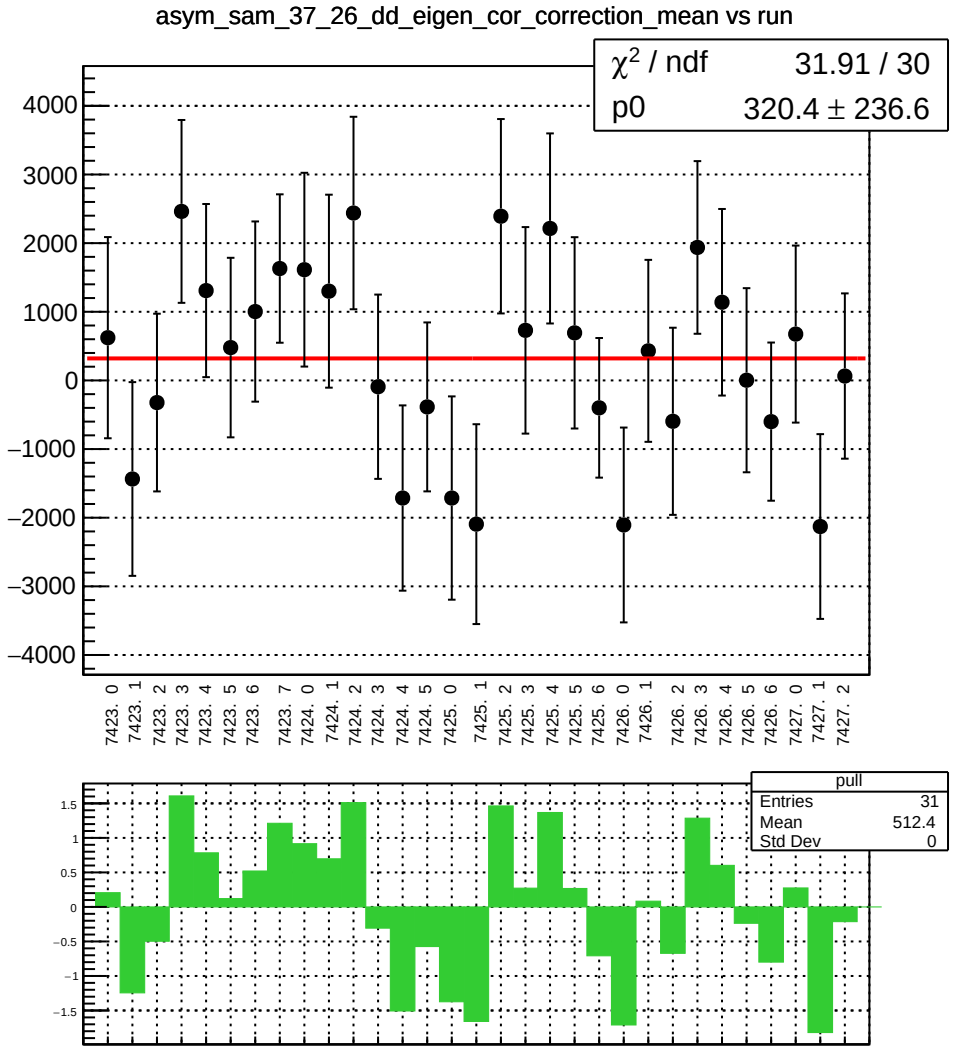
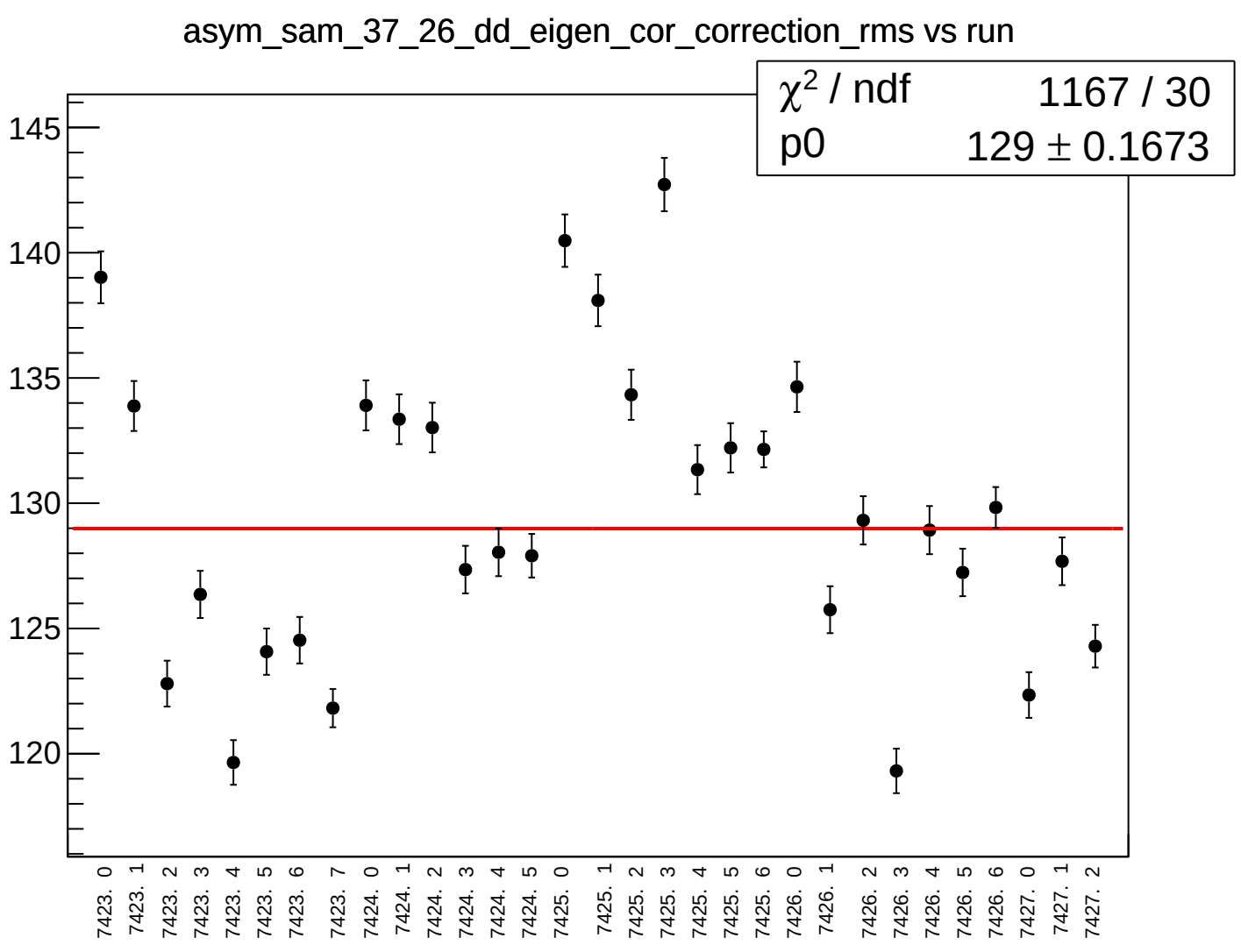
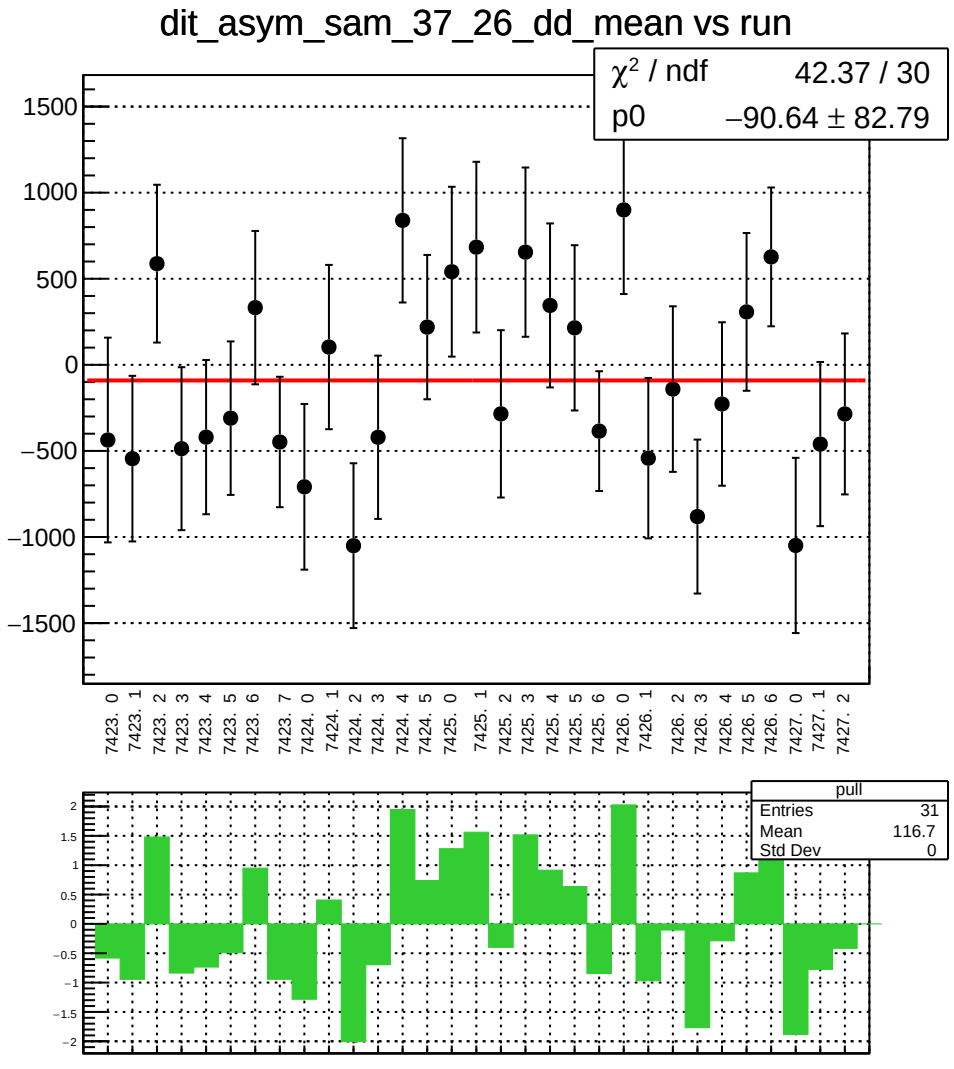
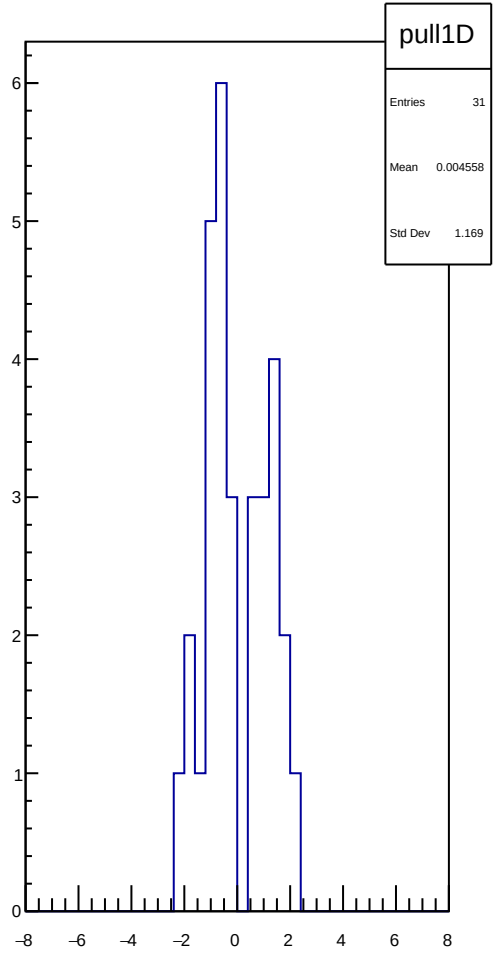
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.91 / 30
p0 320.4 ± 236.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 512.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.004135
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1167 / 30
p0 129 ± 0.1673
145
140
135
130
125
120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 42.37 / 30
p0 −90.64 ± 82.79
1500
1000
500
0
−500
−1000
−1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 116.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean 0.004558
Std Dev 1.169
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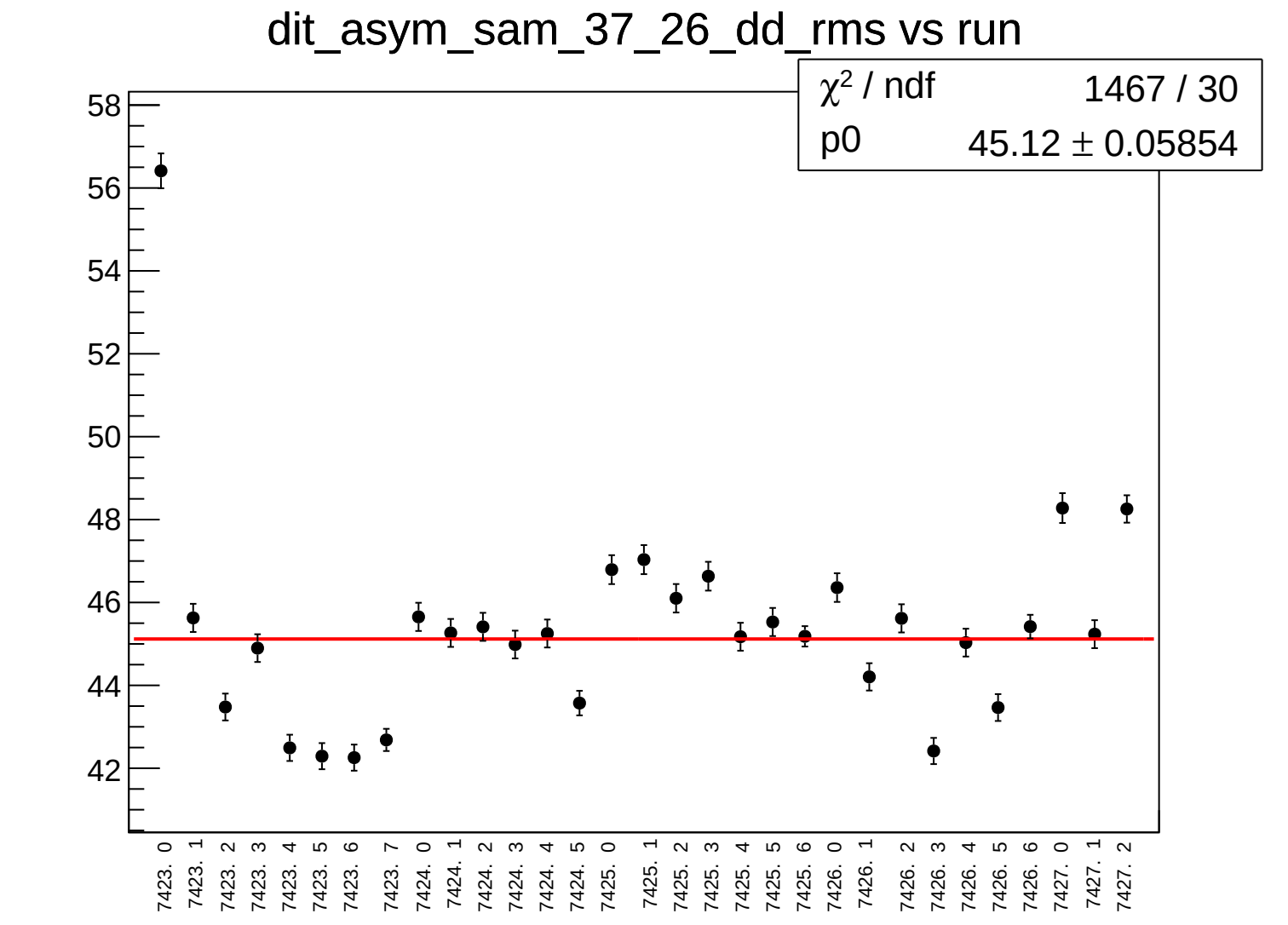
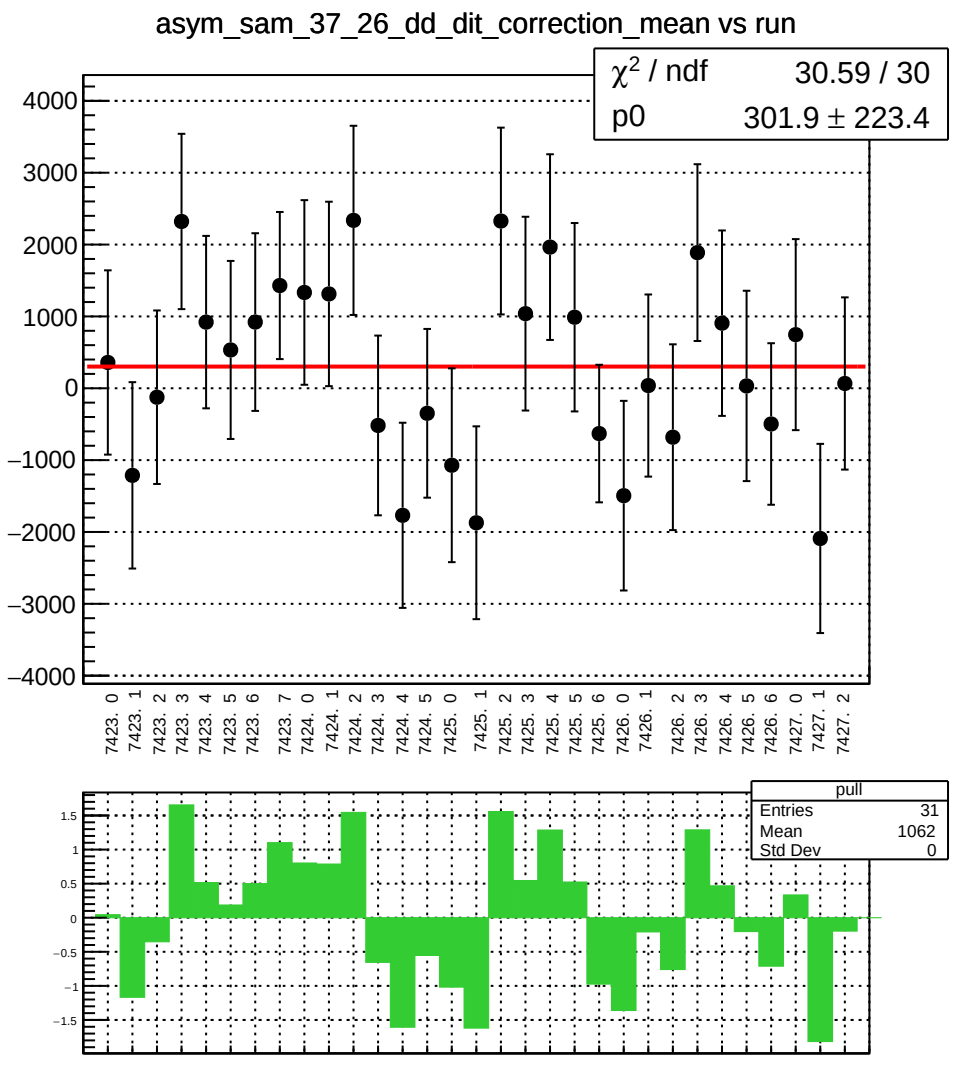
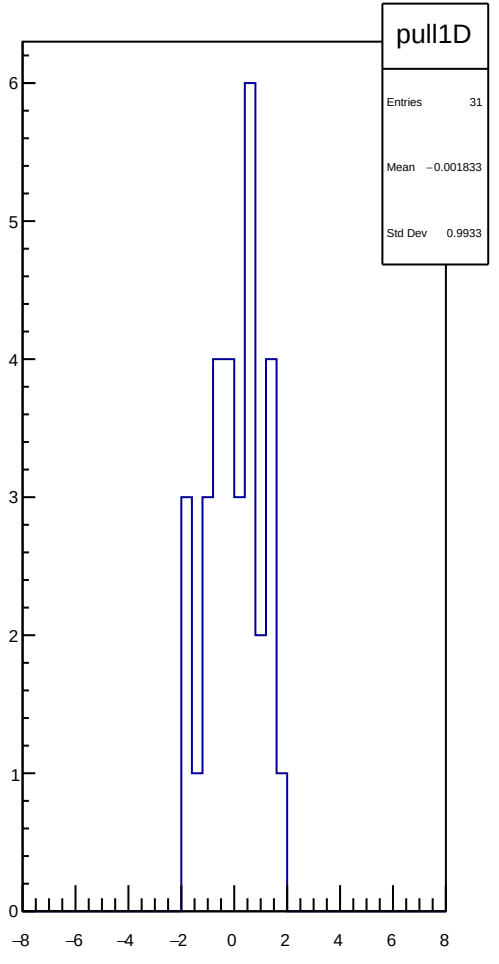
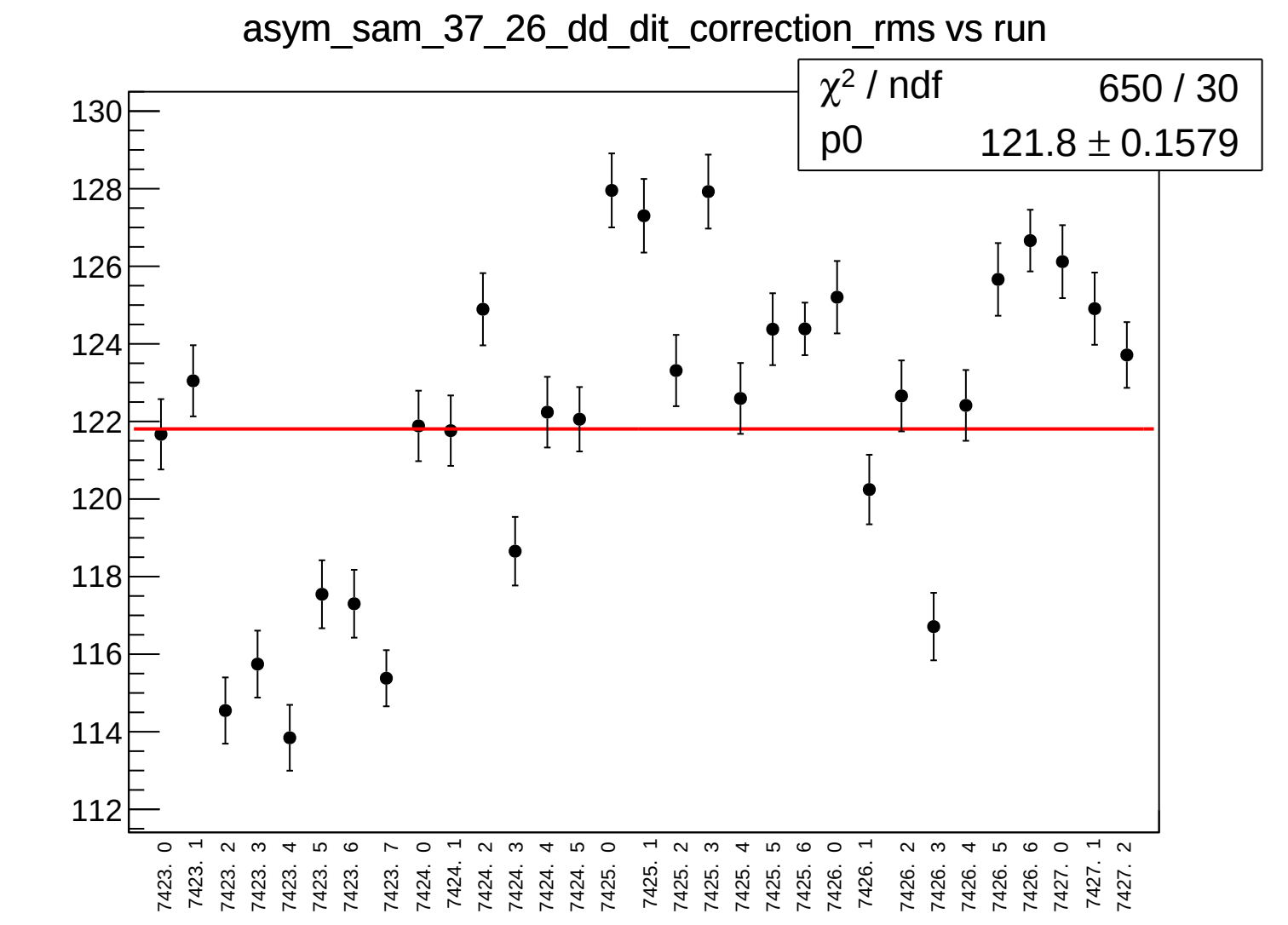
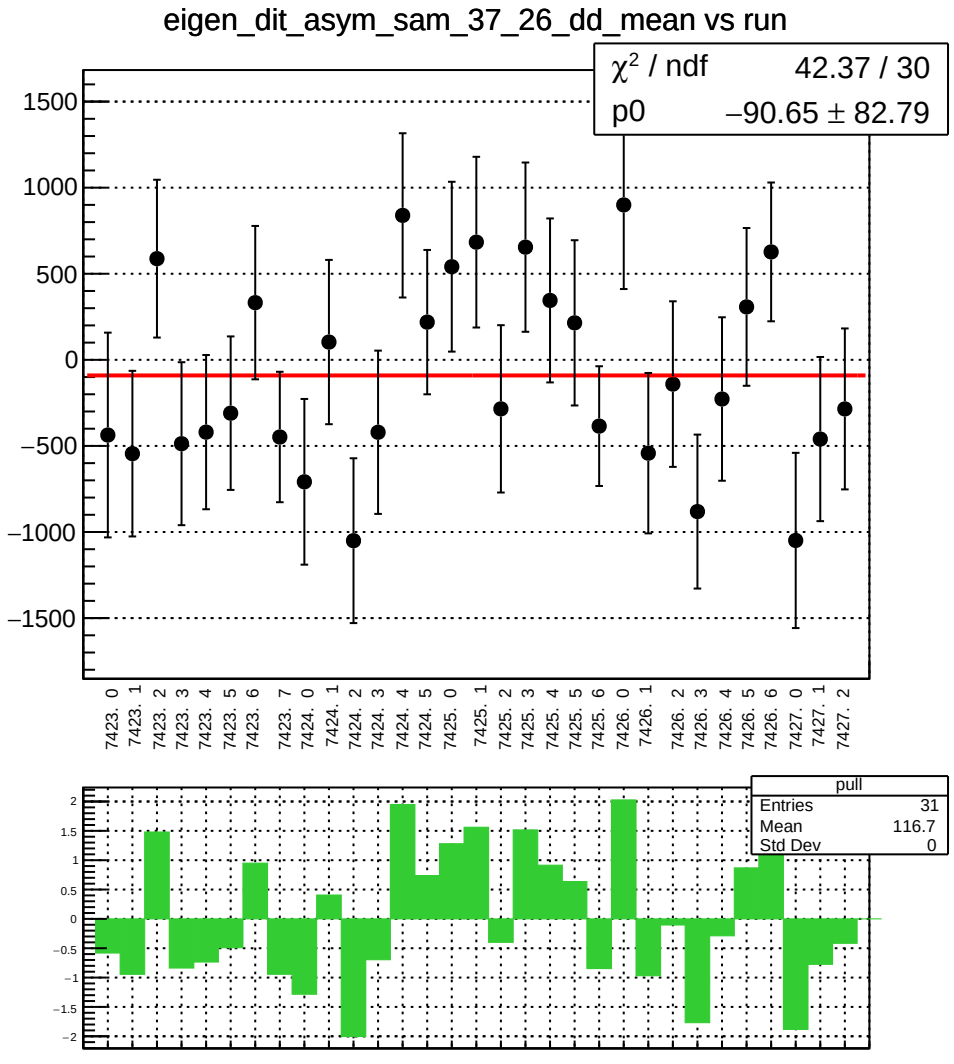
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1467 / 30
p0 45.12 ± 0.05854
58
56
54
52
50
48
46
44
42
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 30.59 / 30
p0 301.9 ± 223.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1062
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 31
Mean −0.001833
Std Dev 0.9933
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 650 / 30
p0 121.8 ± 0.1579
130
128
126
124
122
120
118
116
114
112
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 42.37 / 30
p0 −90.65 ± 82.79
1500
1000
500
0
−500
−1000
−1500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
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7425. 2
7425. 3
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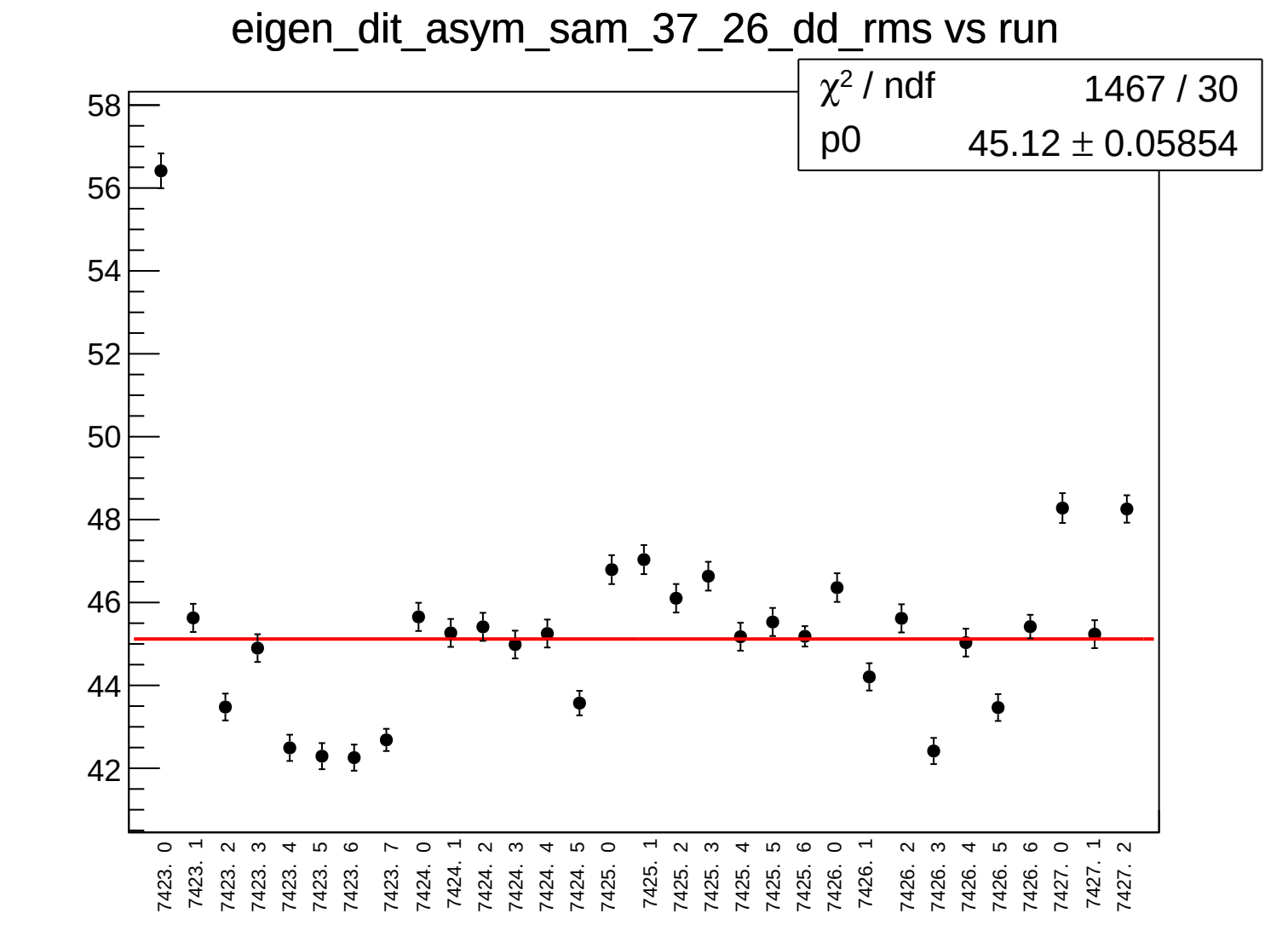
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 116.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.00456
Std Dev 1.169
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1467 / 30
p0 45.12 ± 0.05854
58
56
54
52
50
48
46
44
42
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
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7424. 4
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7425. 5
7425. 6
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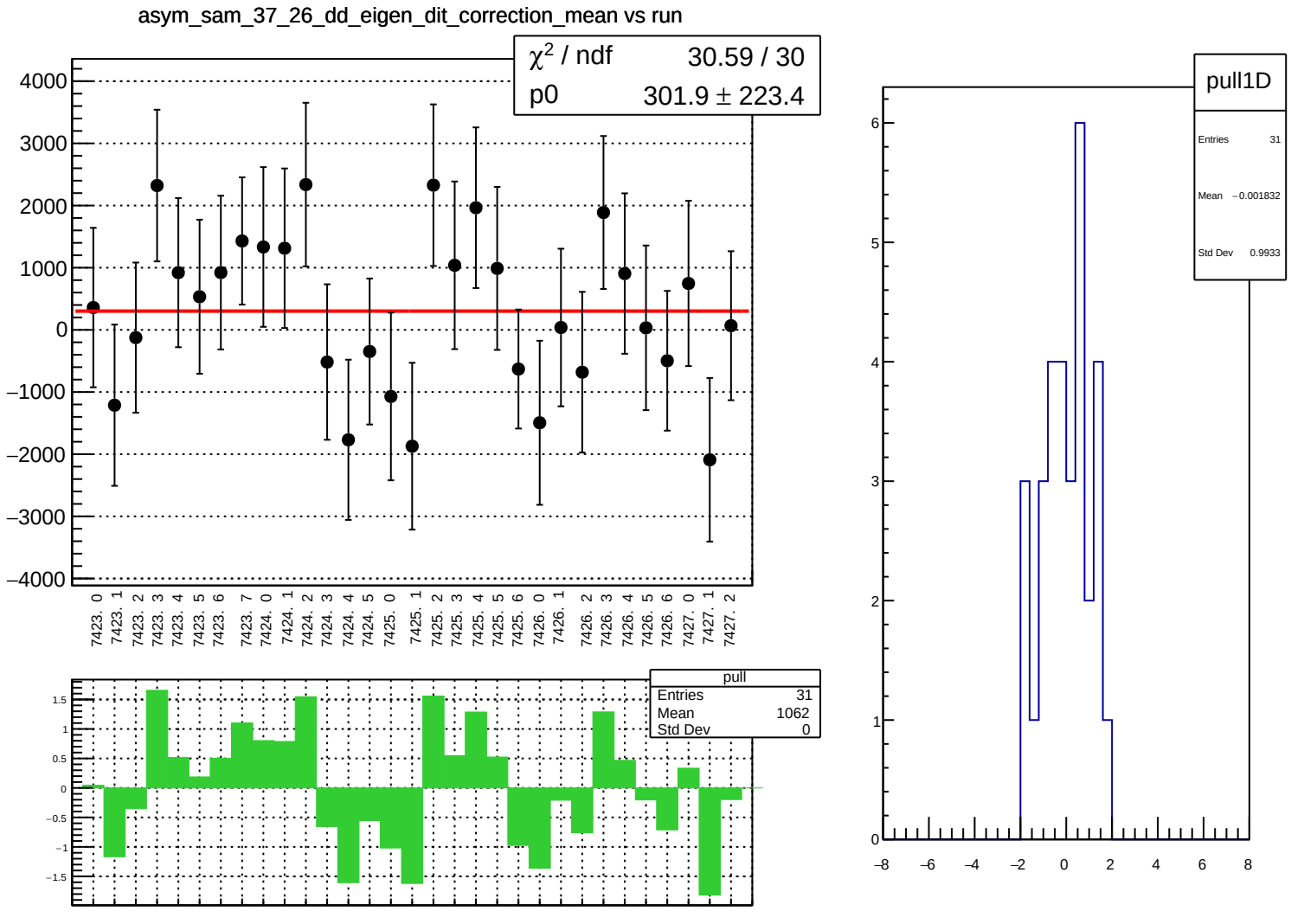
7427. 2


asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 30.59 / 30
p0 301.9 ± 223.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
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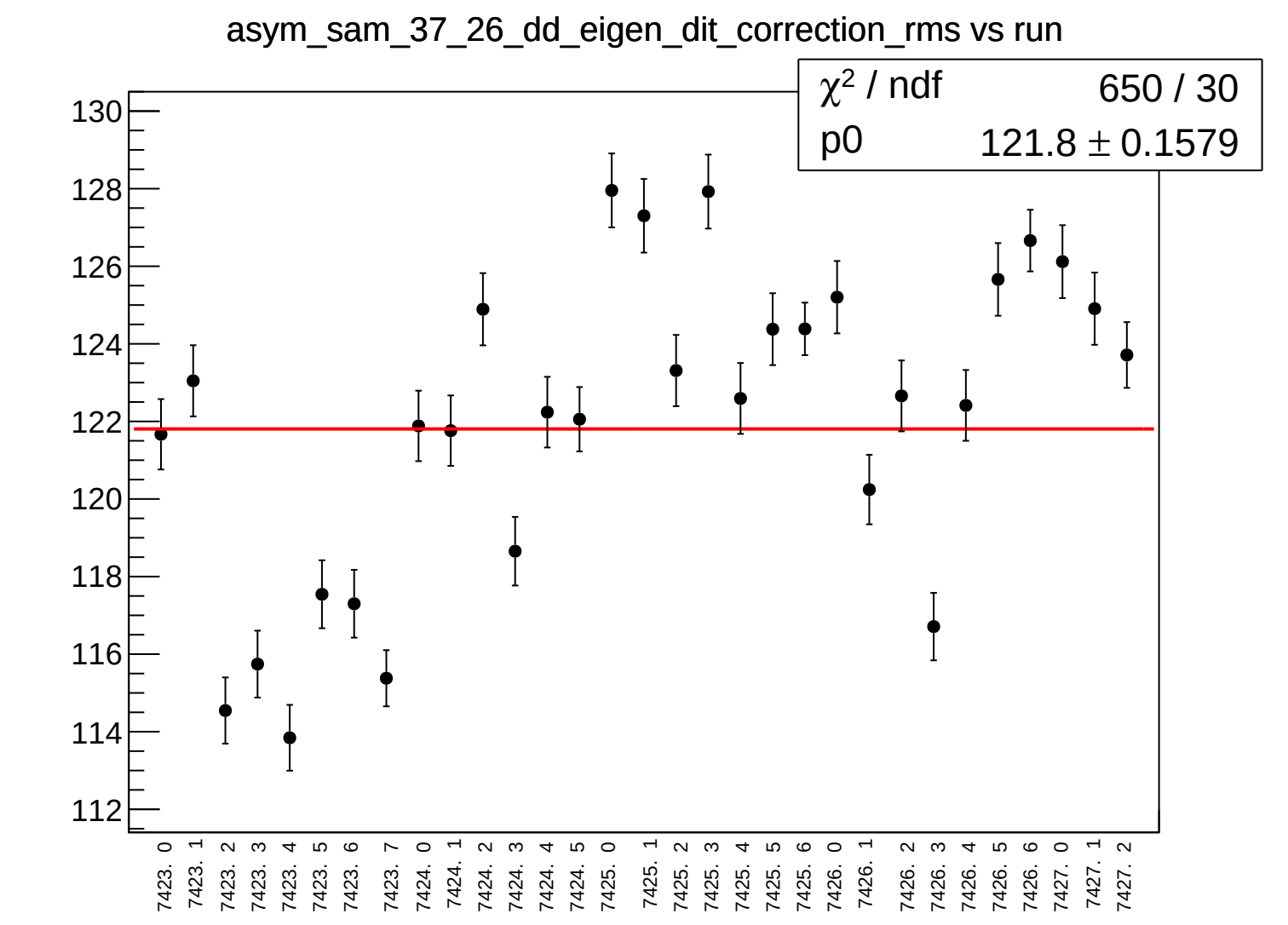
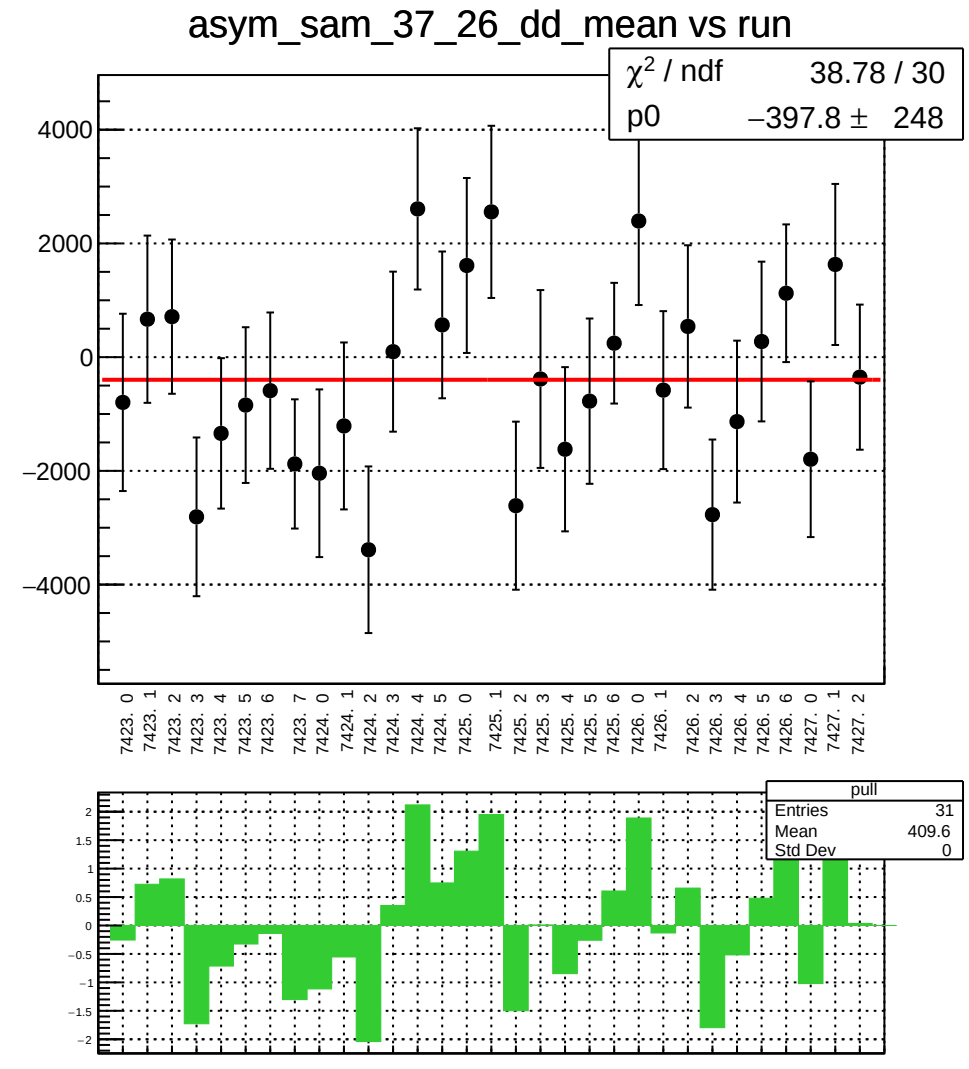
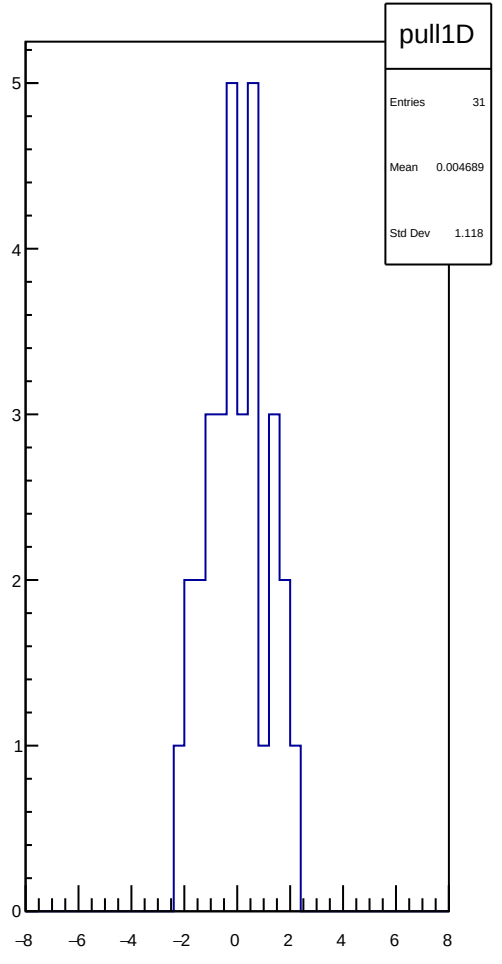
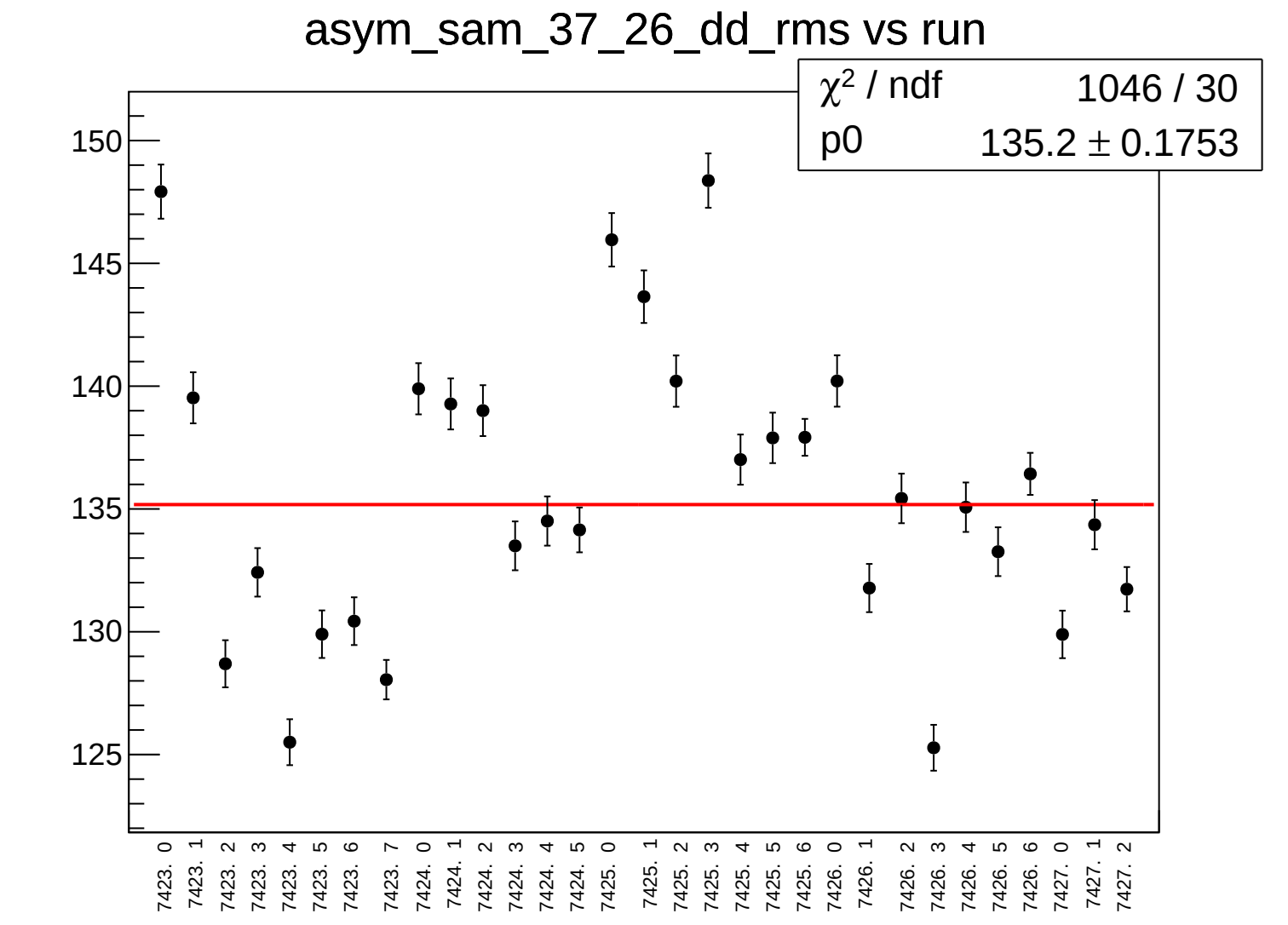
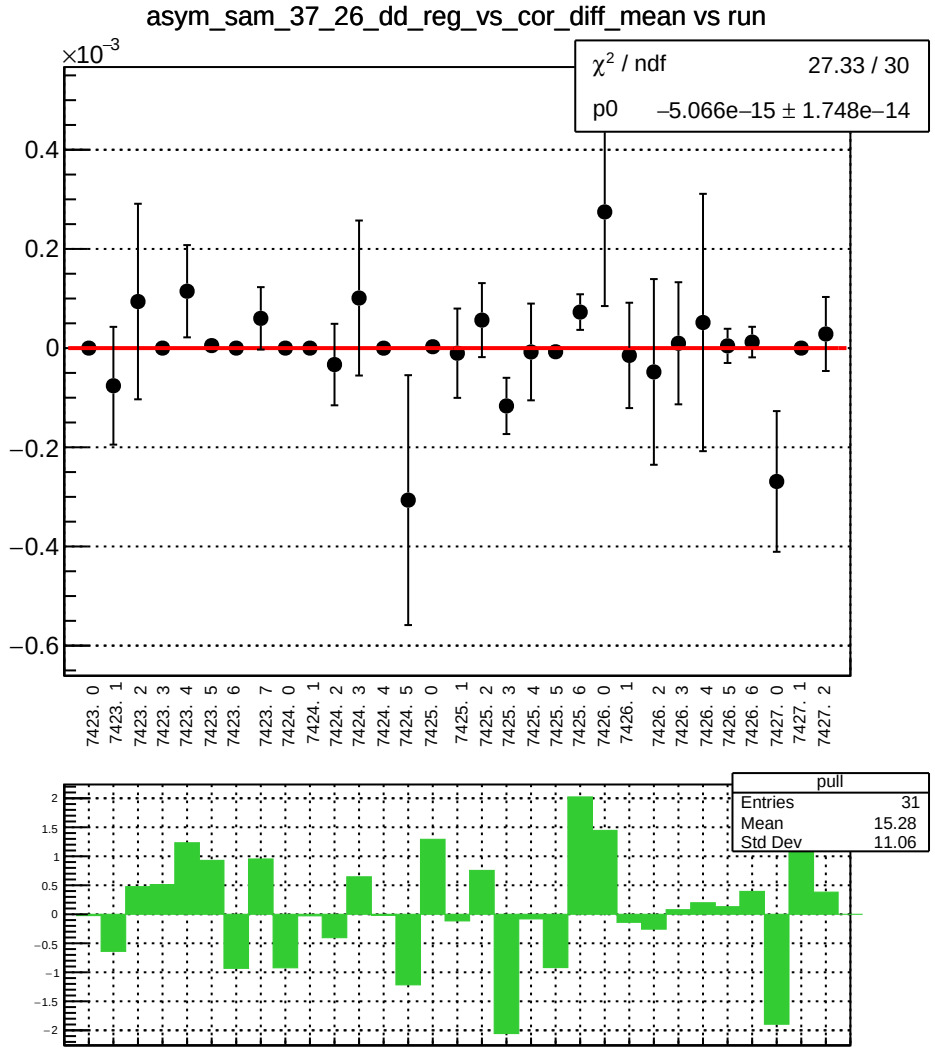
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1062
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.001832
Std Dev 0.9933
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

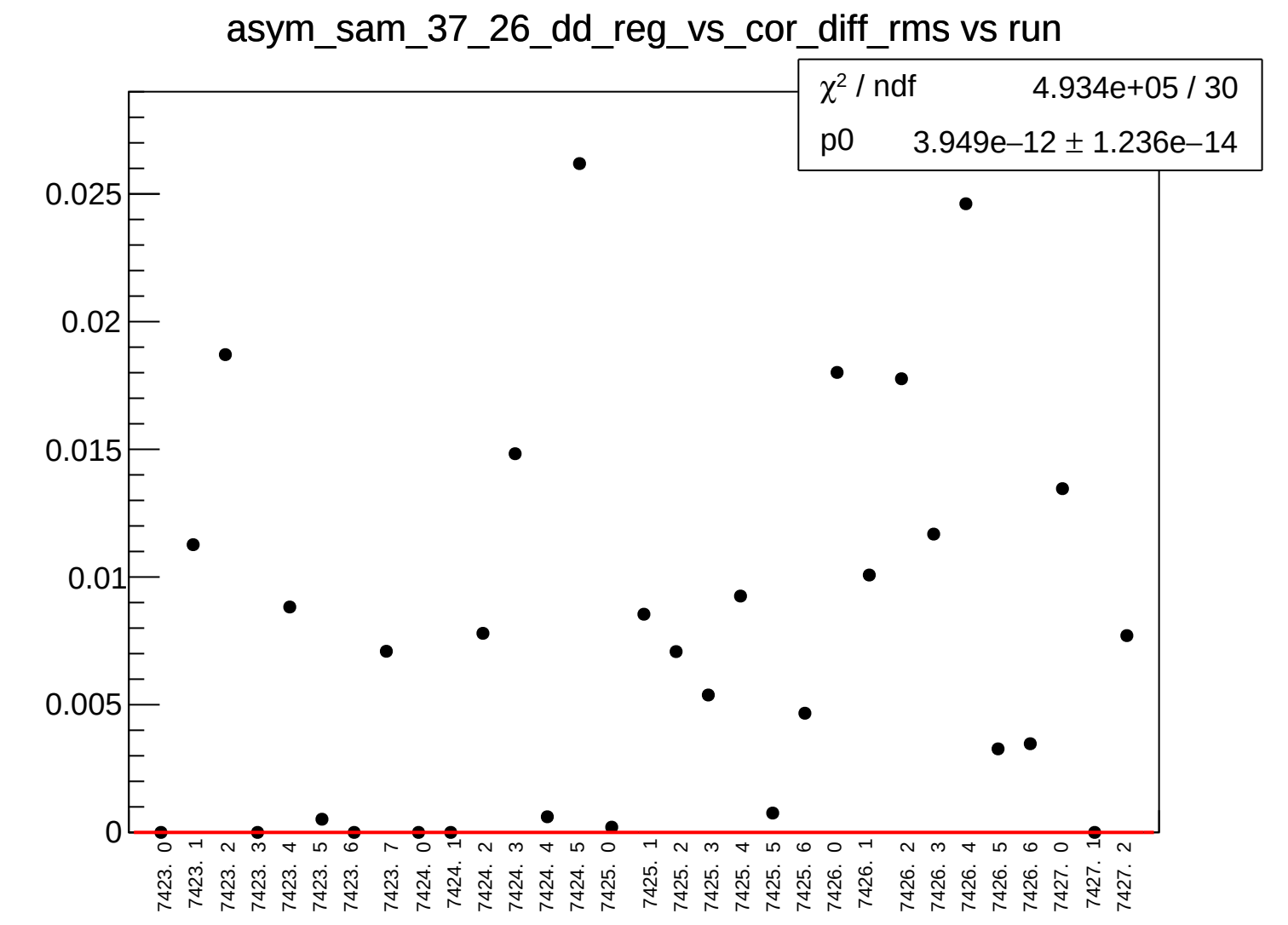

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 650 / 30
p0 121.8 ± 0.1579
130
128
126
124
122
120
118
116
114
112
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

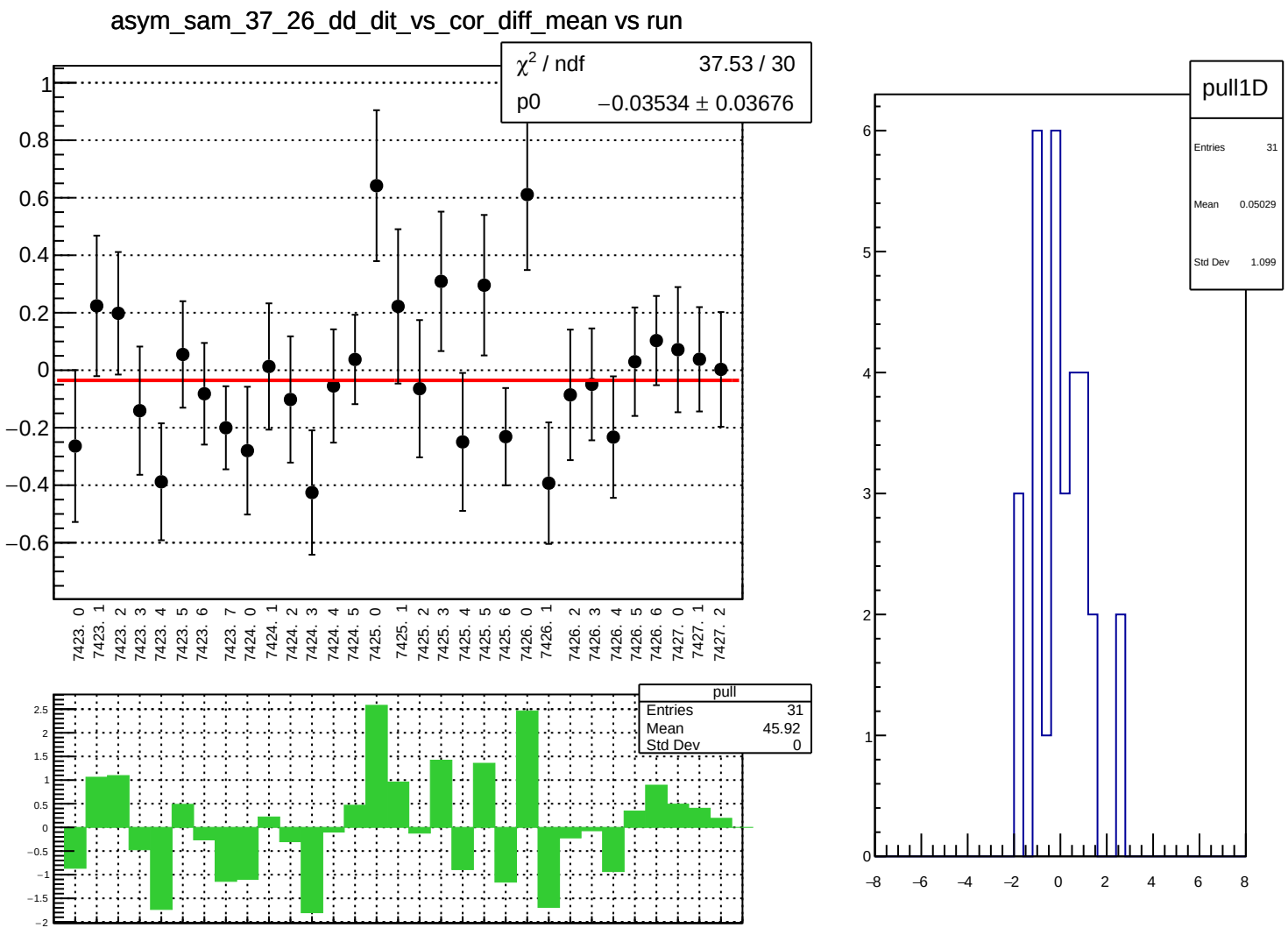

asym_sam_37_26_dd_mean vs run
χ² / ndf 38.78 / 30
p0 −397.8 ± 248
4000
2000
0
−2000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 409.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

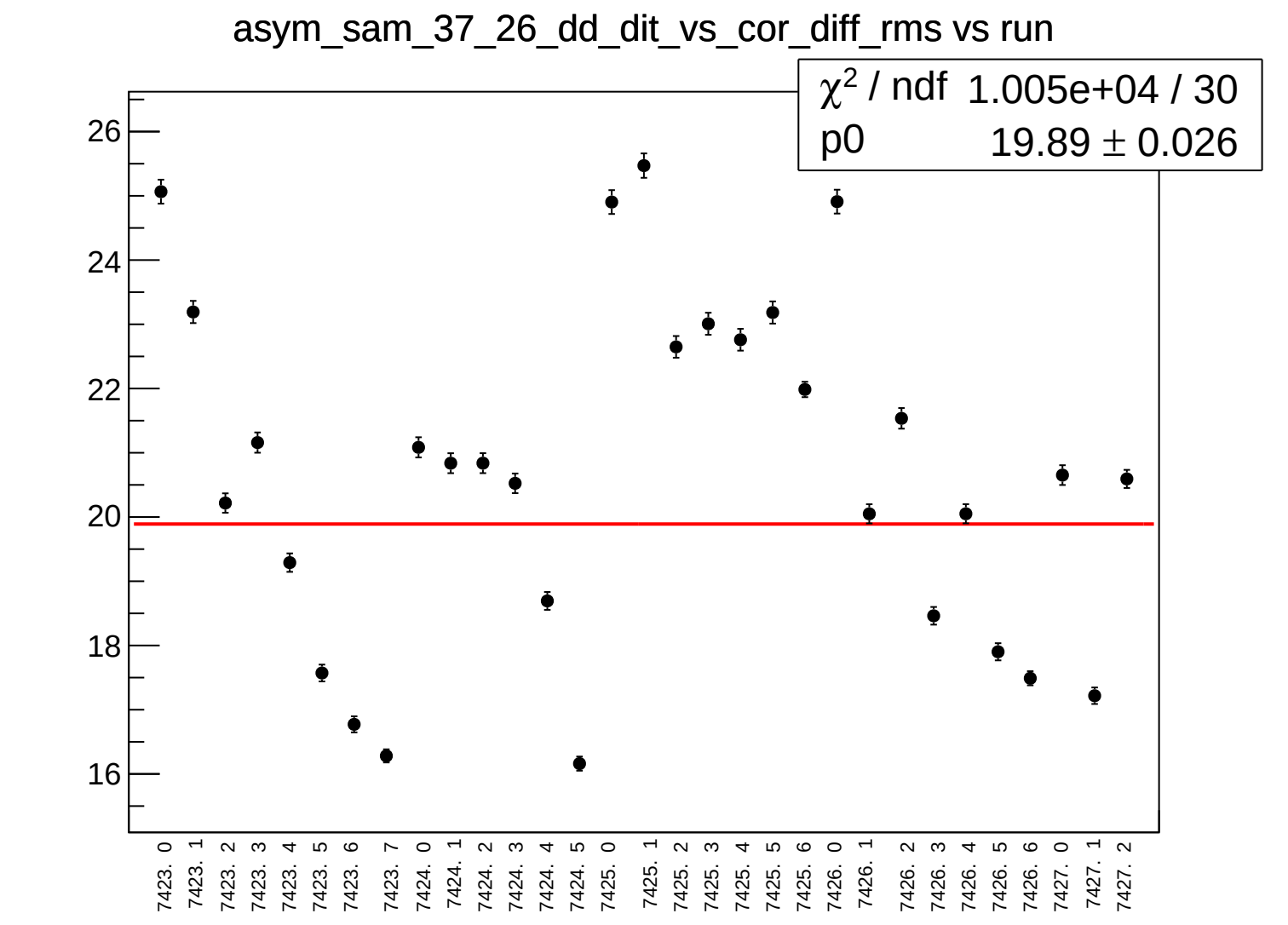

pull1D
Entries 31
Mean 0.004689
Std Dev 1.118
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

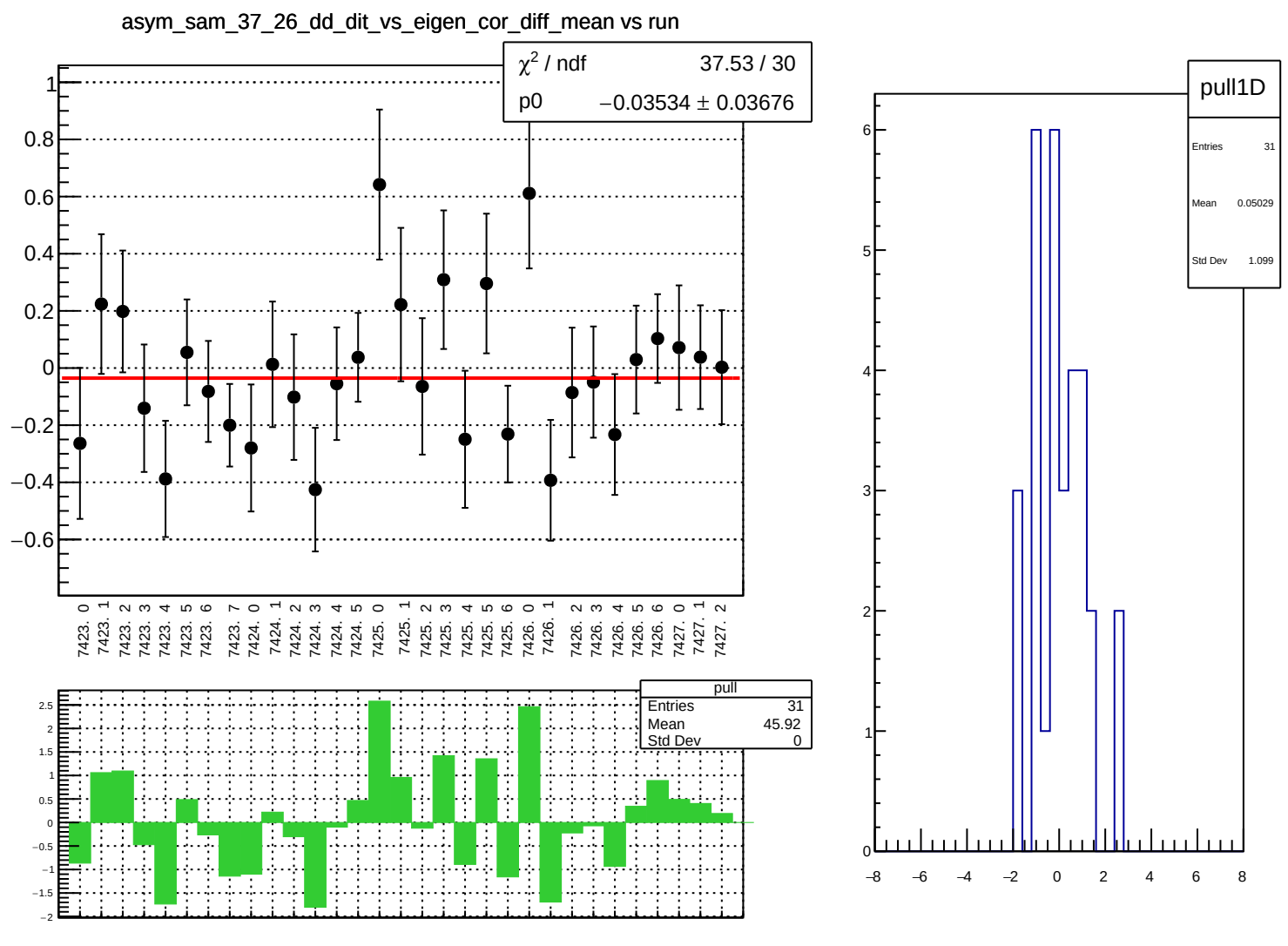

asym_sam_37_26_dd_rms vs run
χ² / ndf 1046 / 30
p0 135.2 ± 0.1753
150
145
140
135
130
125
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

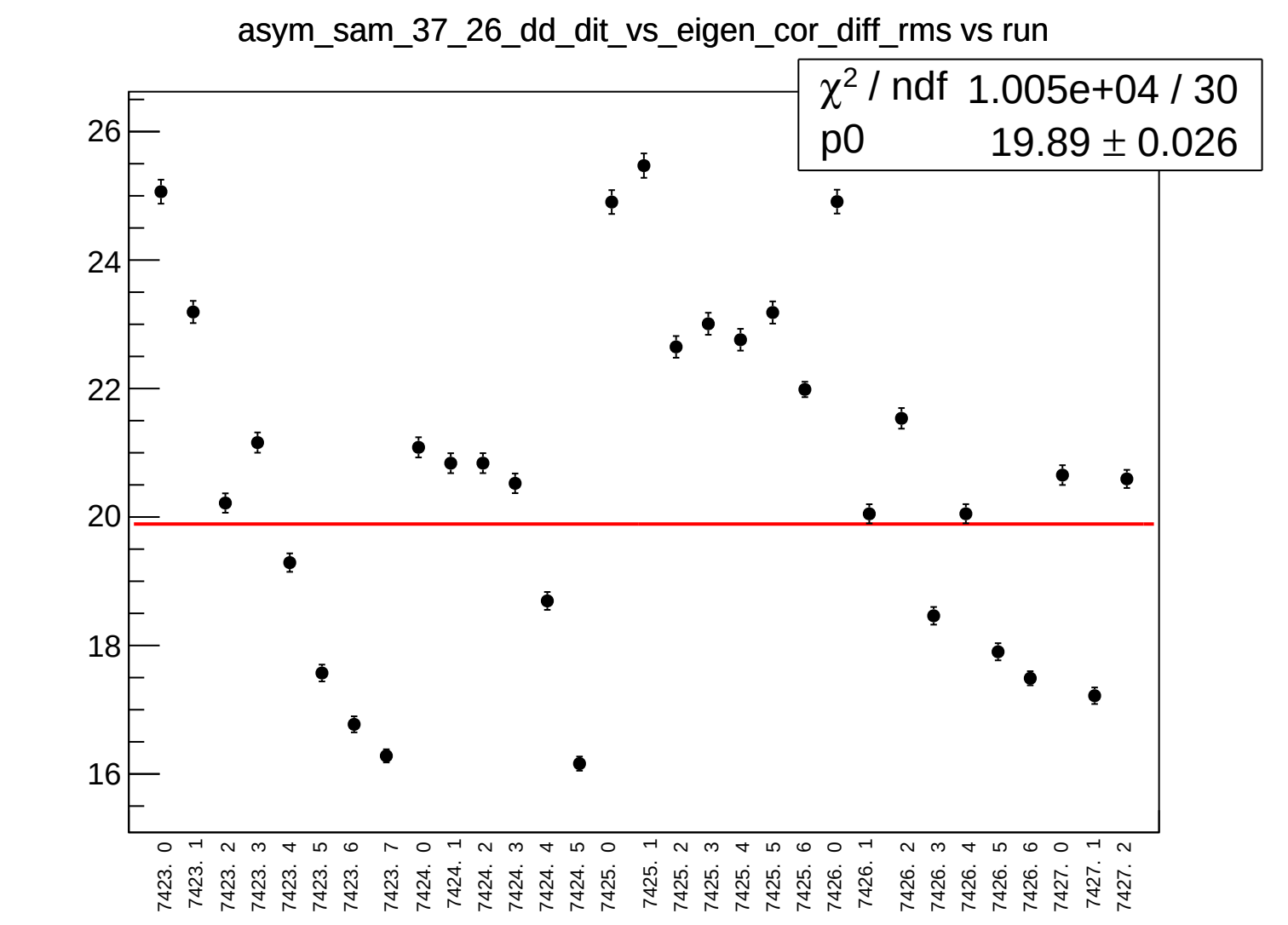

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 27.33 / 30
p0 −5.066e−15 ± 1.748e−14
0.4
0.2
0
−0.2
−0.4
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.28
Std Dev 11.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.1017
Std Dev 0.9334
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

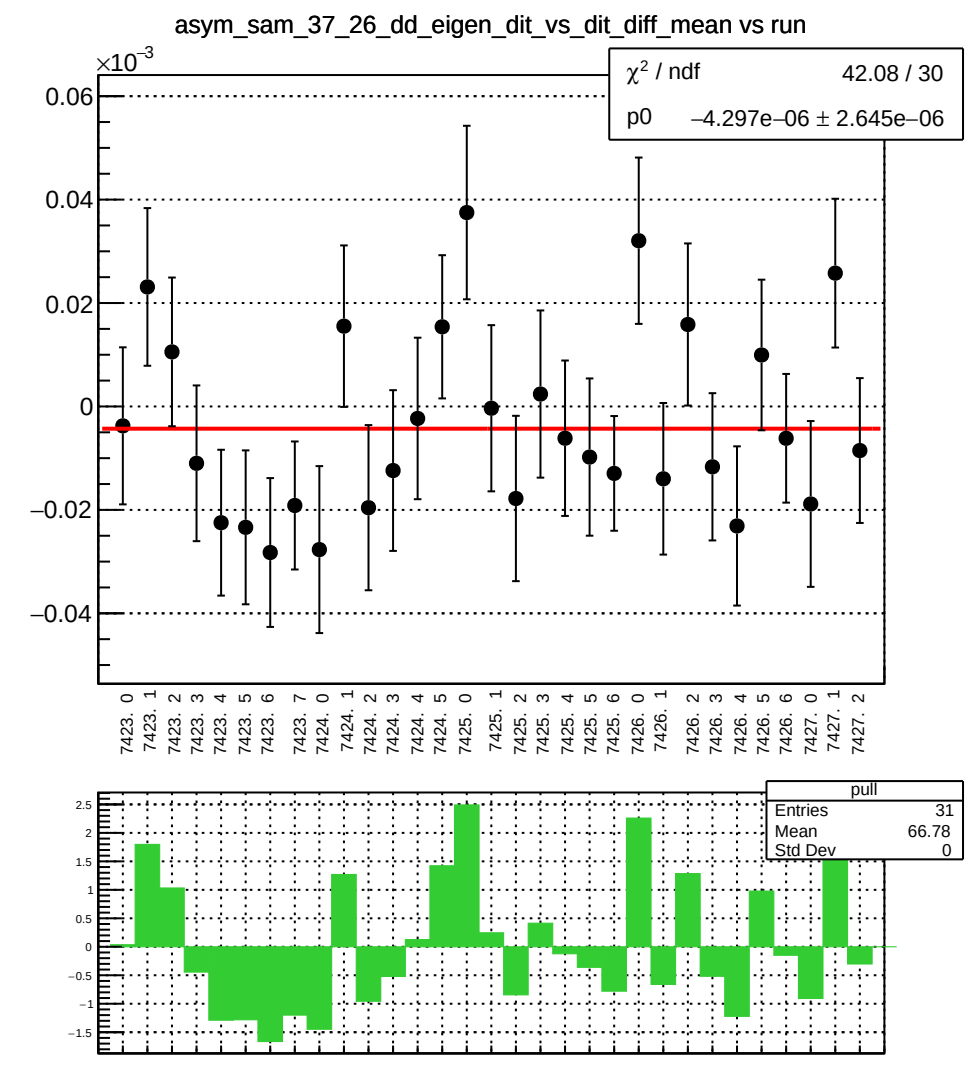

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.934e+05 / 30
p0 3.949e−12 ± 1.236e−14
0.025
0.02
0.015
0.01
0.005
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

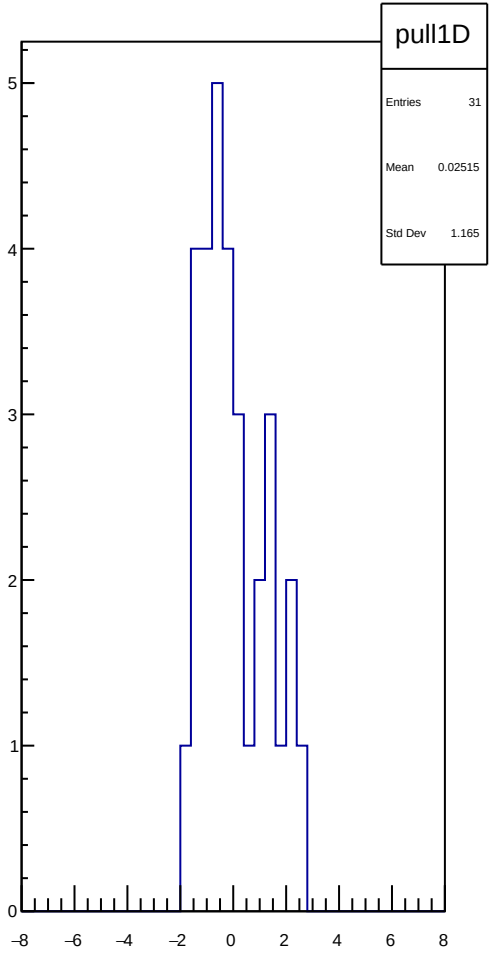

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.53 / 30
p0 −0.03534 ± 0.03676
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 45.92
Std Dev 0
pull1D
Entries 31
Mean 0.05029
Std Dev 1.099

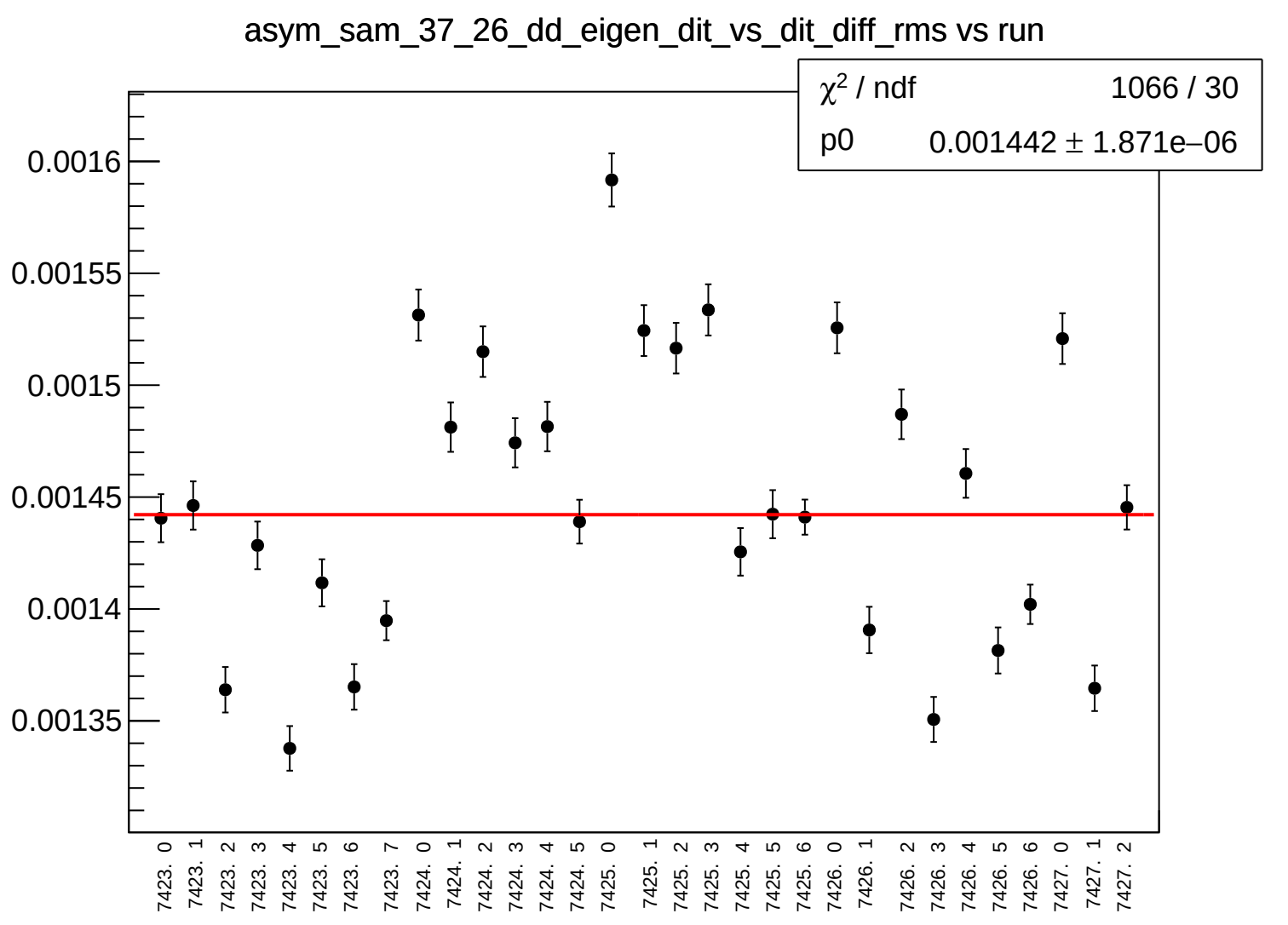

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.005e+04 / 30
p0 19.89 ± 0.026
26
24
22
20
18
16
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

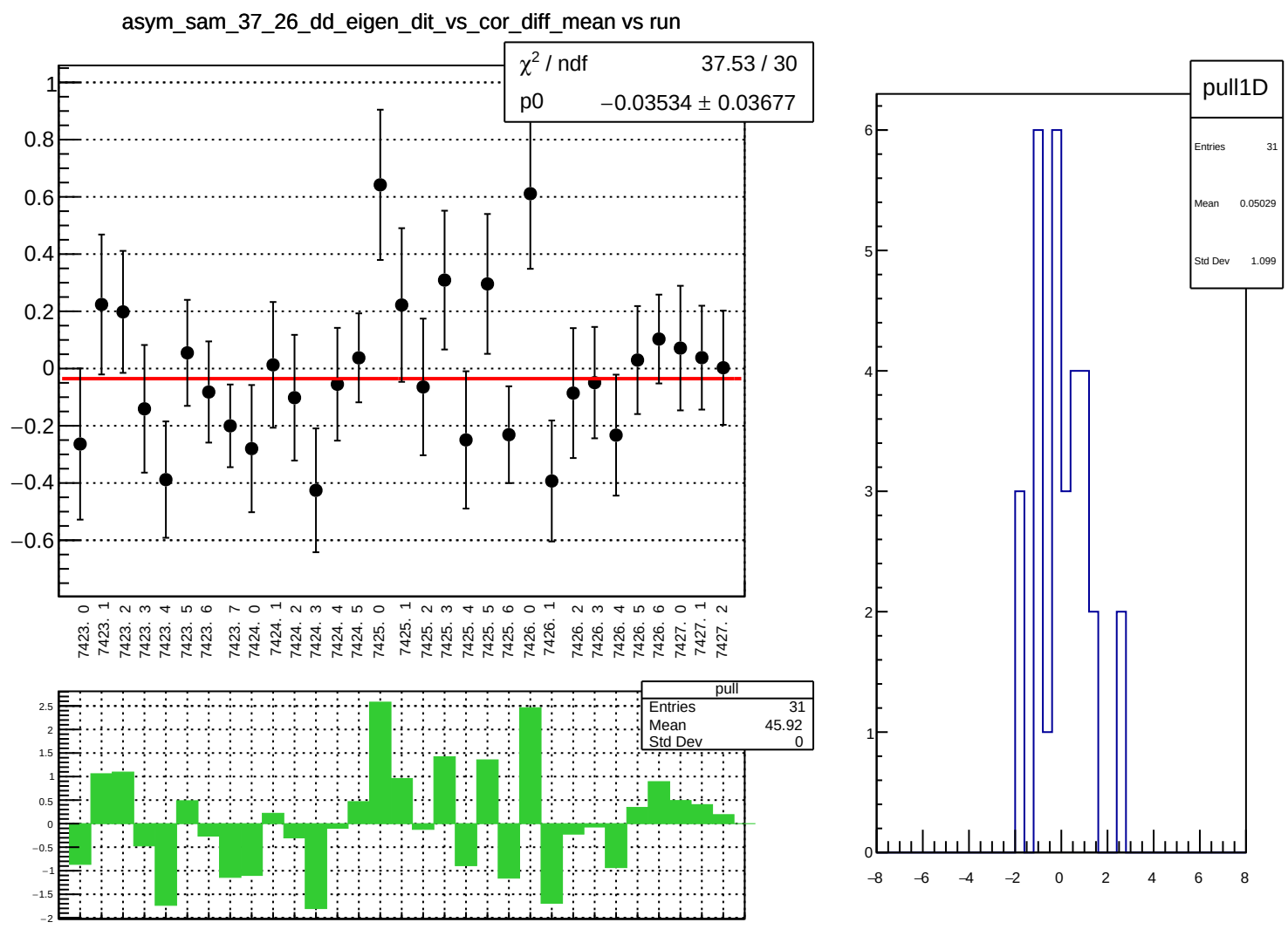

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.53 / 30
p0 −0.03534 ± 0.03676
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 45.92
Std Dev 0
pull1D
Entries 31
Mean 0.05029
Std Dev 1.099

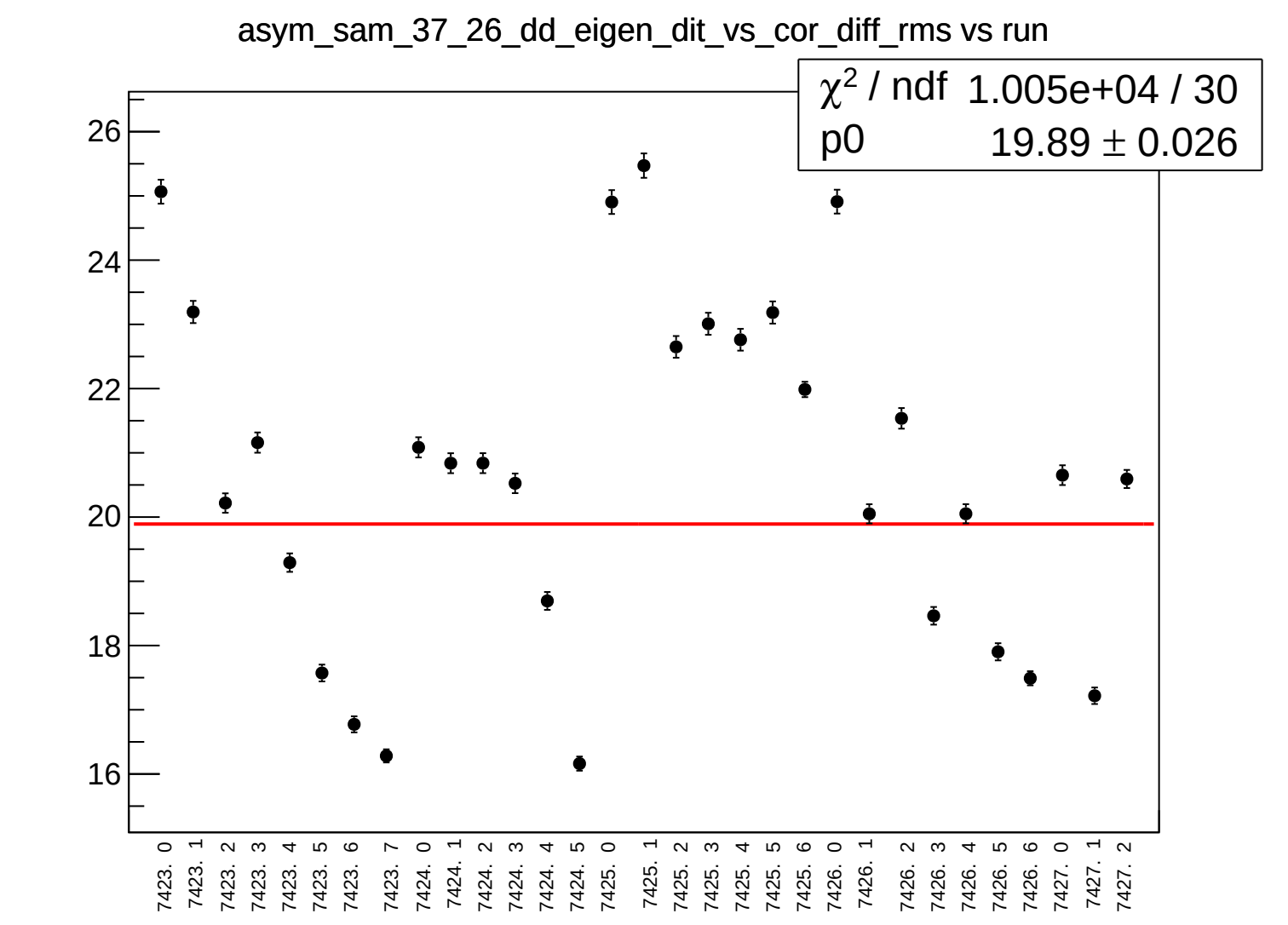

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.005e+04 / 30
p0 19.89 ± 0.026
26
24
22
20
18
16
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

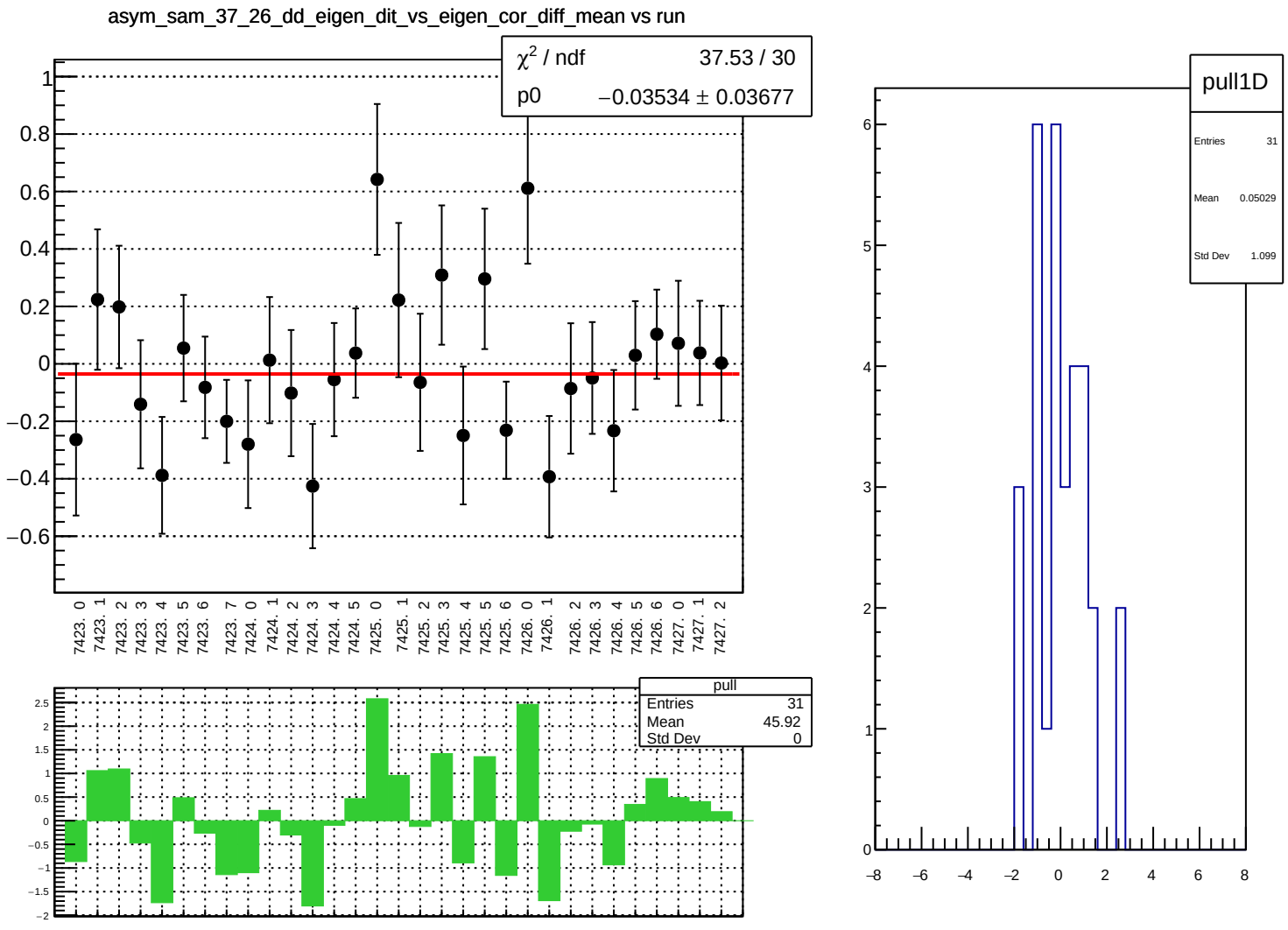

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.08 / 30
p0 −4.297e−06 ± 2.645e−06
0.06
0.04
0.02
0
−0.02
−0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 66.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

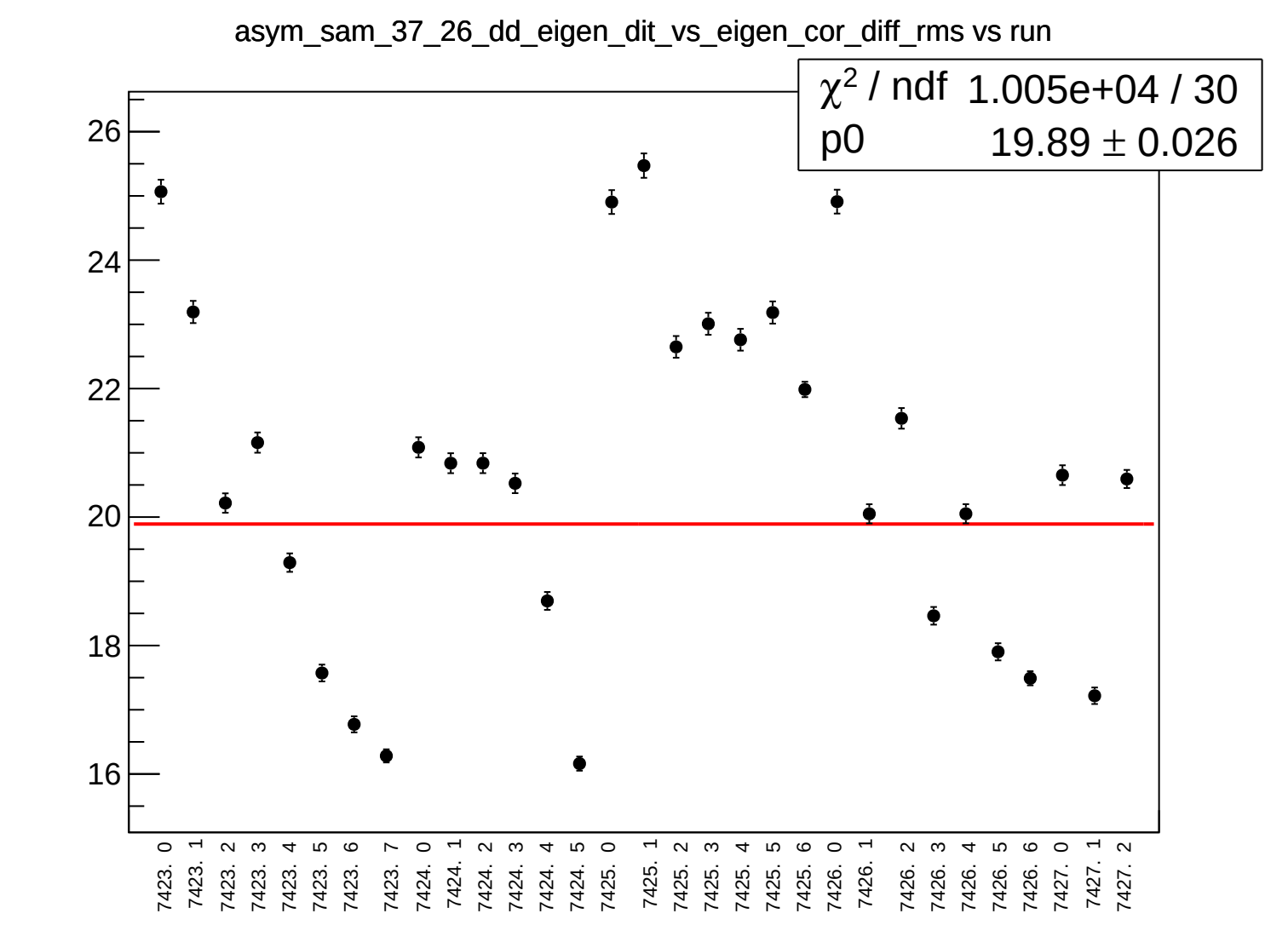

pull1D
Entries 31
Mean 0.02515
Std Dev 1.165
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

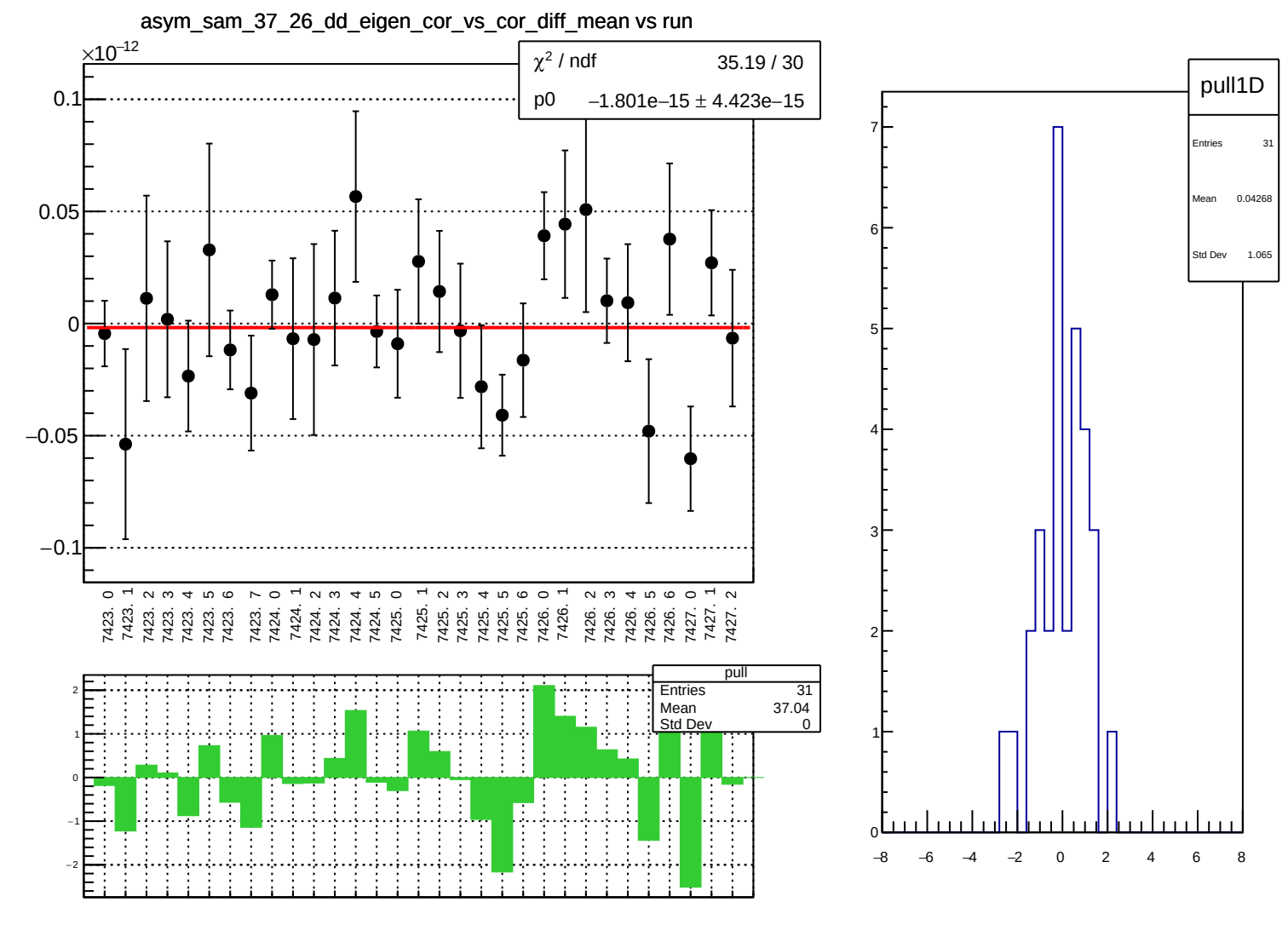

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1066 / 30
p0 0.001442 ± 1.871e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

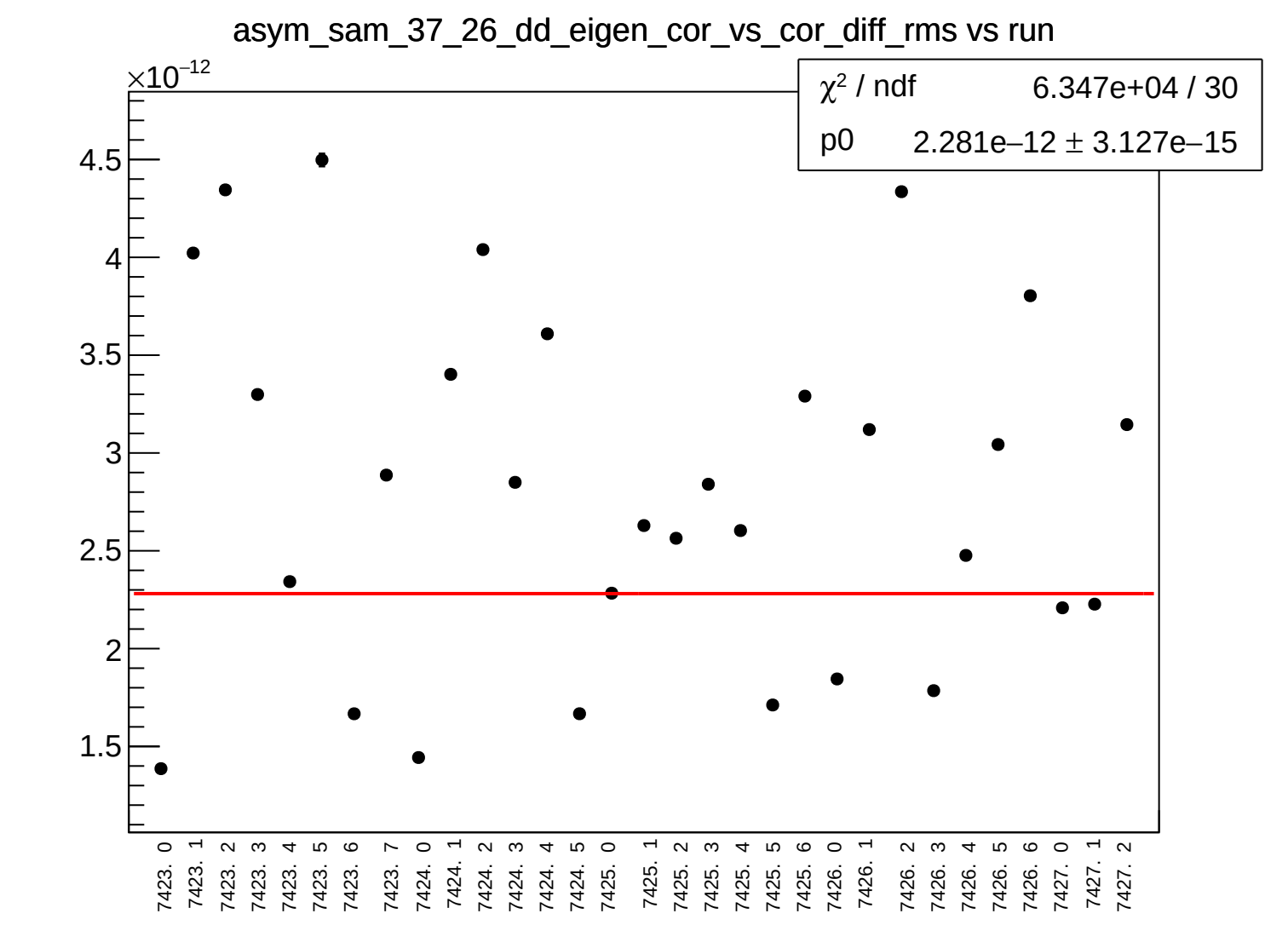

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.53 / 30
p0 −0.03534 ± 0.03677
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 45.92
Std Dev 0
pull1D
Entries 31
Mean 0.05029
Std Dev 1.099

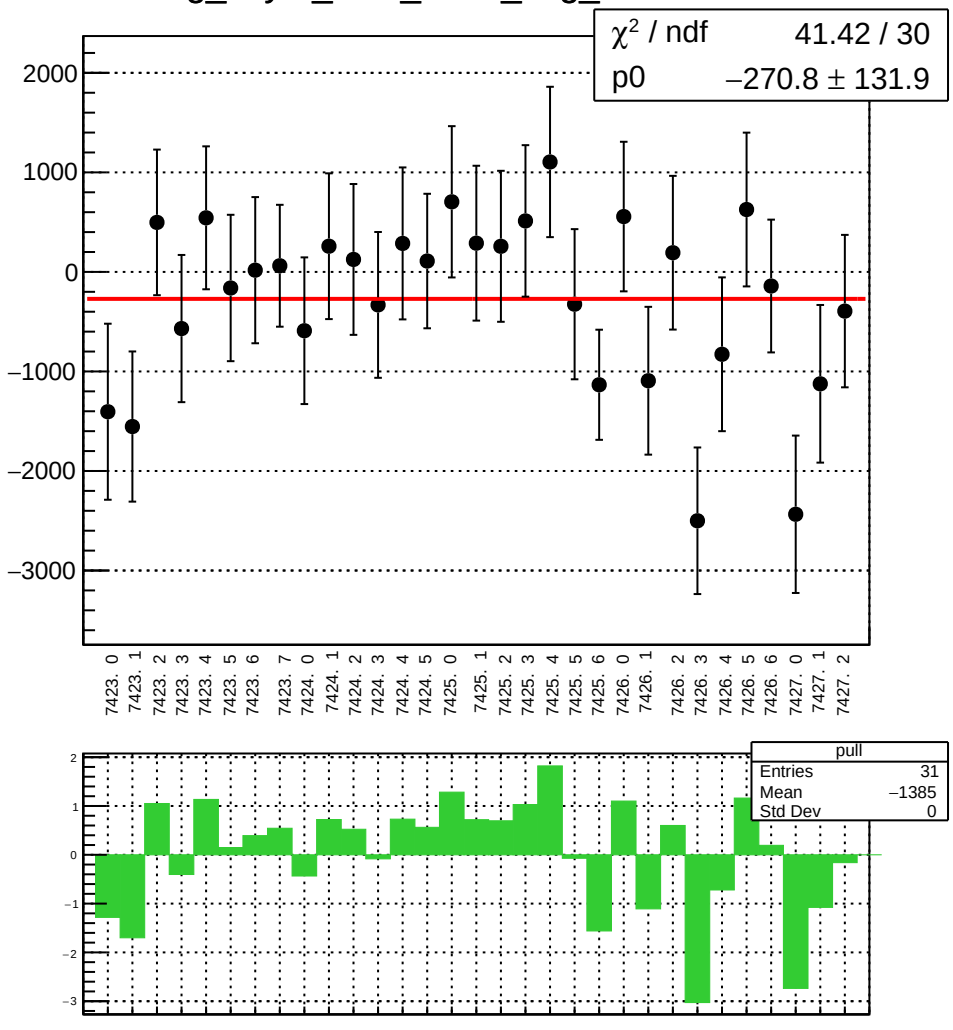

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.005e+04 / 30
p0 19.89 ± 0.026
26
24
22
20
18
16
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

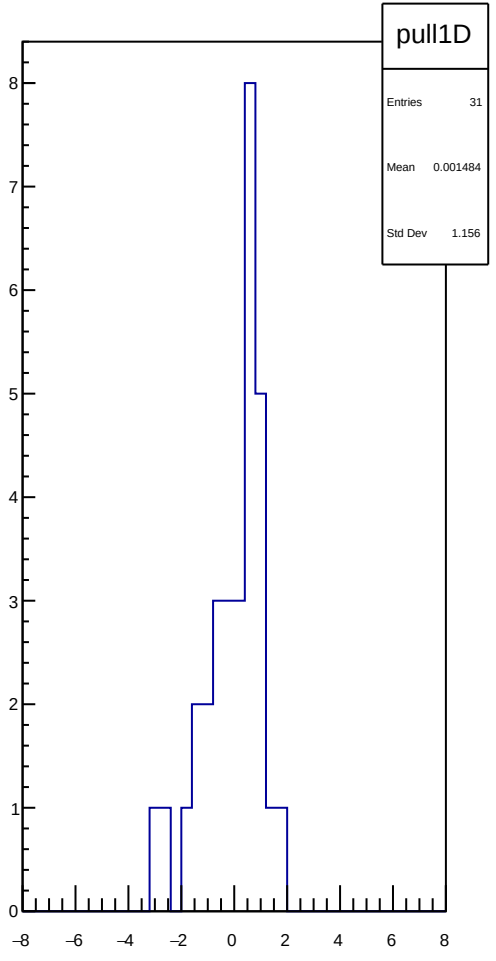

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.53 / 30
p0 −0.03534 ± 0.03677
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 45.92
Std Dev 0
pull1D
Entries 31
Mean 0.05029
Std Dev 1.099

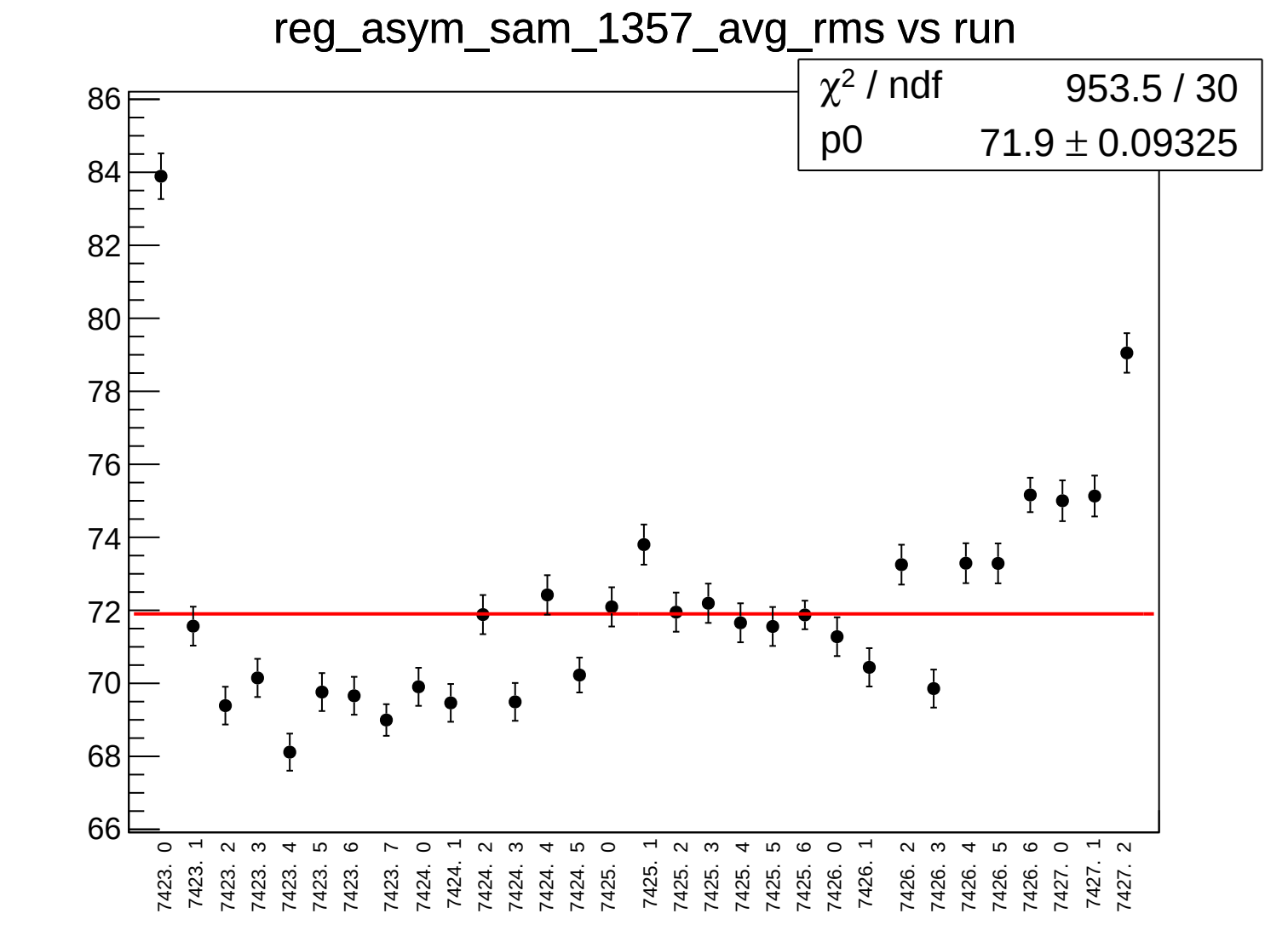

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.005e+04 / 30
p0 19.89 ± 0.026
26
24
22
20
18
16
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

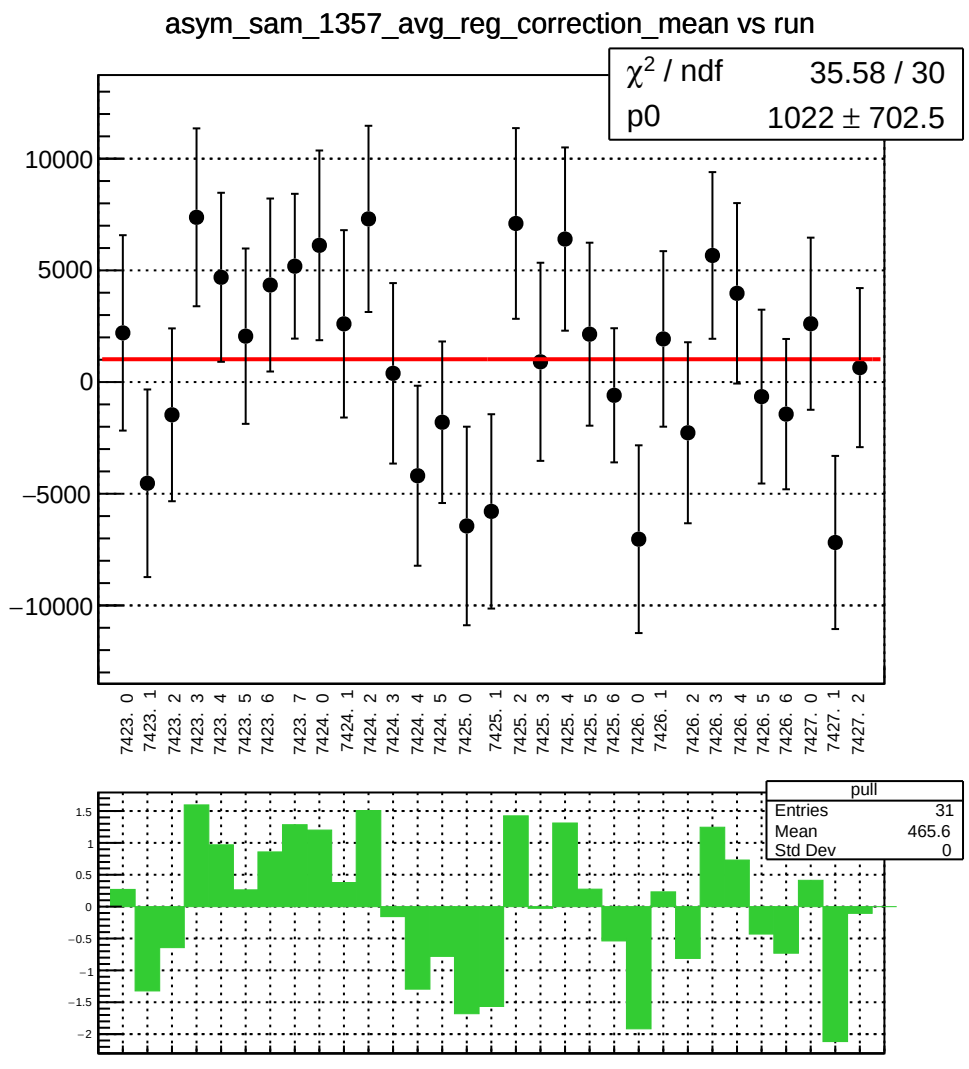

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 35.19 / 30
p0 −1.801e−15 ± 4.423e−15
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 37.04
Std Dev 0
pull1D
Entries 31
Mean 0.04268
Std Dev 1.065

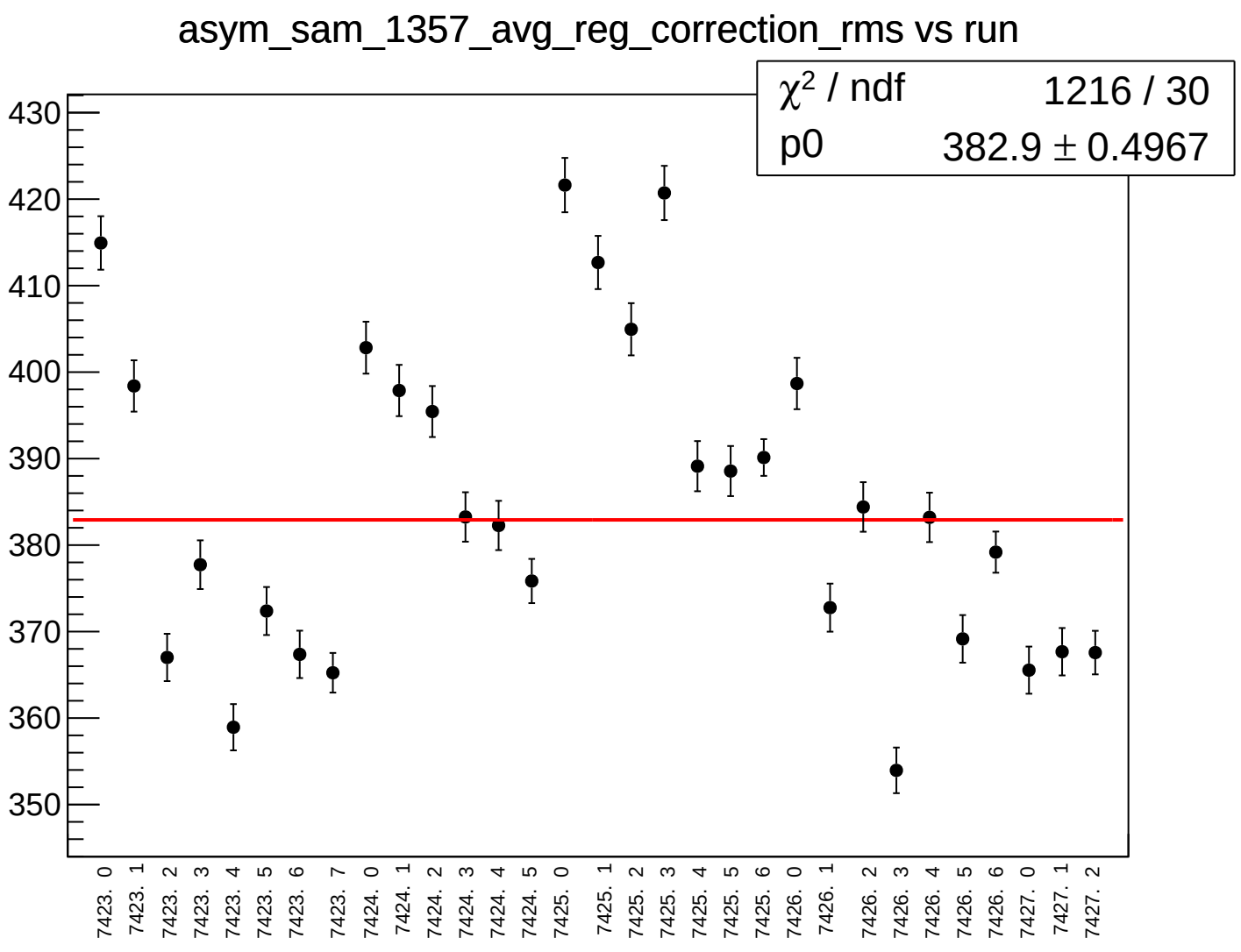

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.347e+04 / 30
p0 2.281e−12 ± 3.127e−15
4.5
4
3.5
3
2.5
2
1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

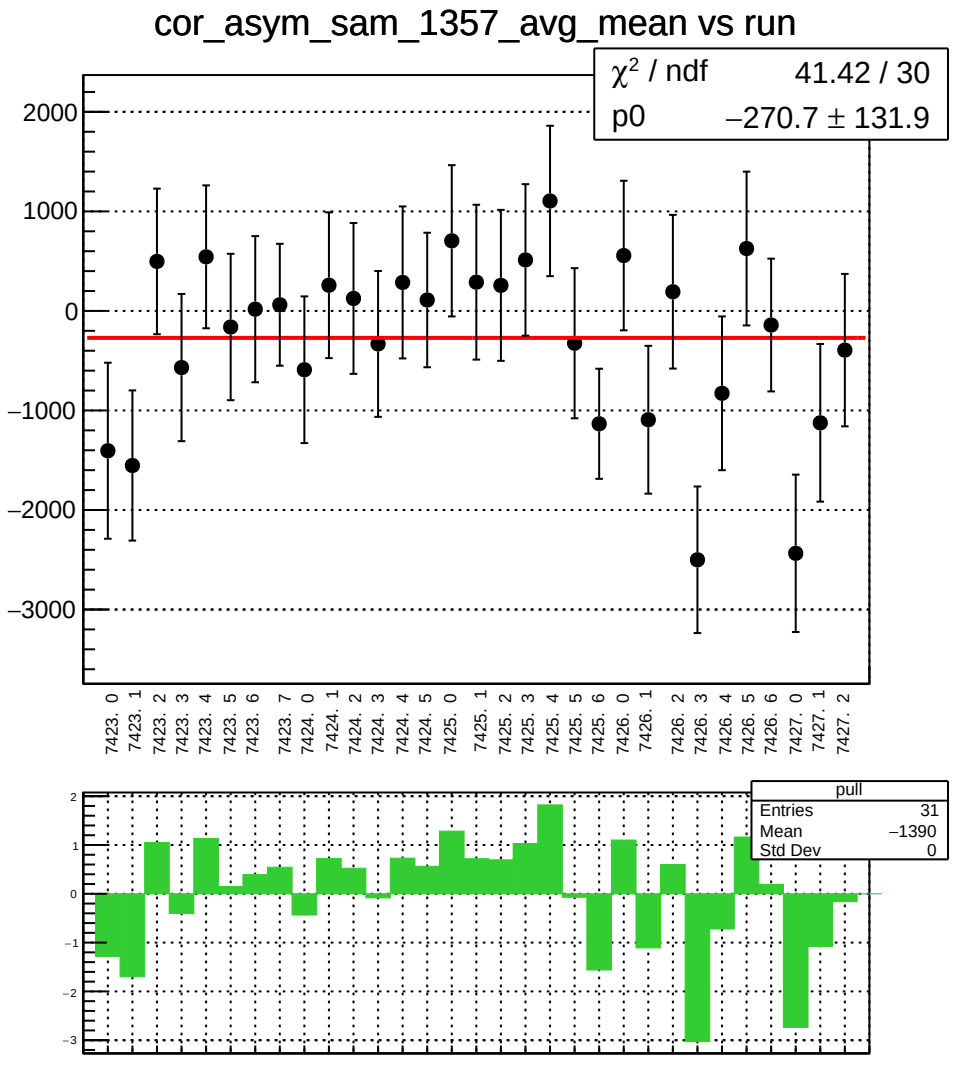

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 41.42 / 30
p0 −270.8 ± 131.9
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1385
Std Dev 0
2
1
0
−1
−2
−3

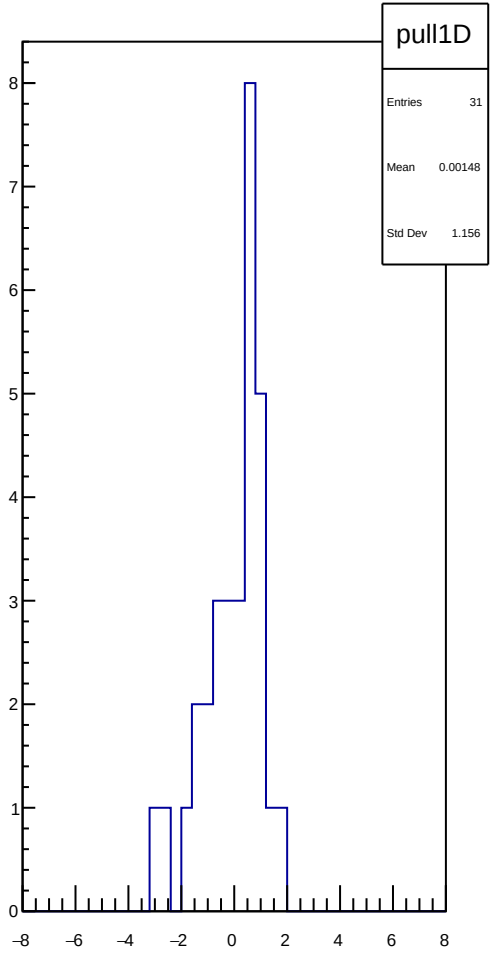

pull1D
Entries 31
Mean 0.001484
Std Dev 1.156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

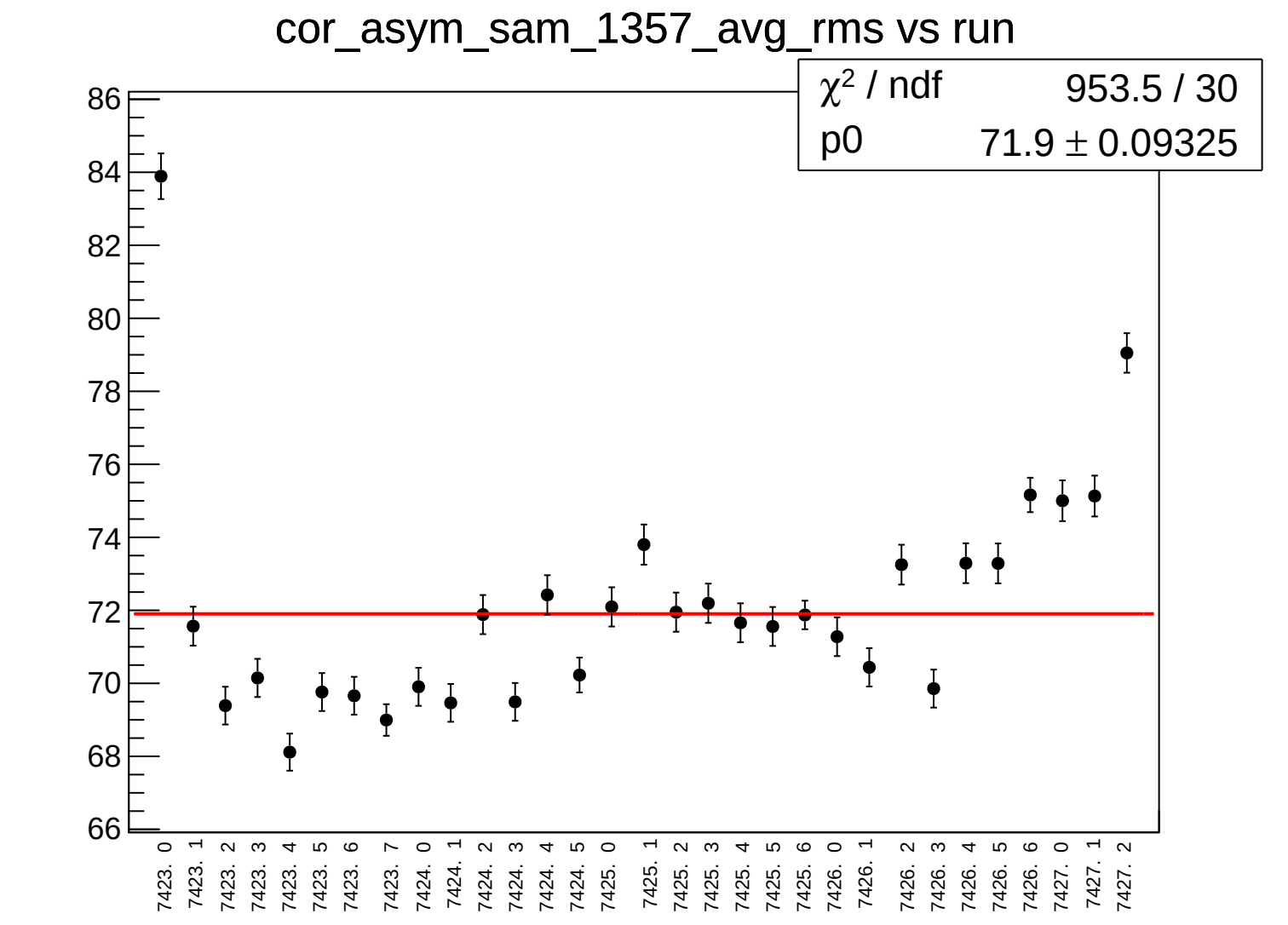

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 953.5 / 30
p0 71.9 ± 0.09325
86
84
82
80
78
76
74
72
70
68
66
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

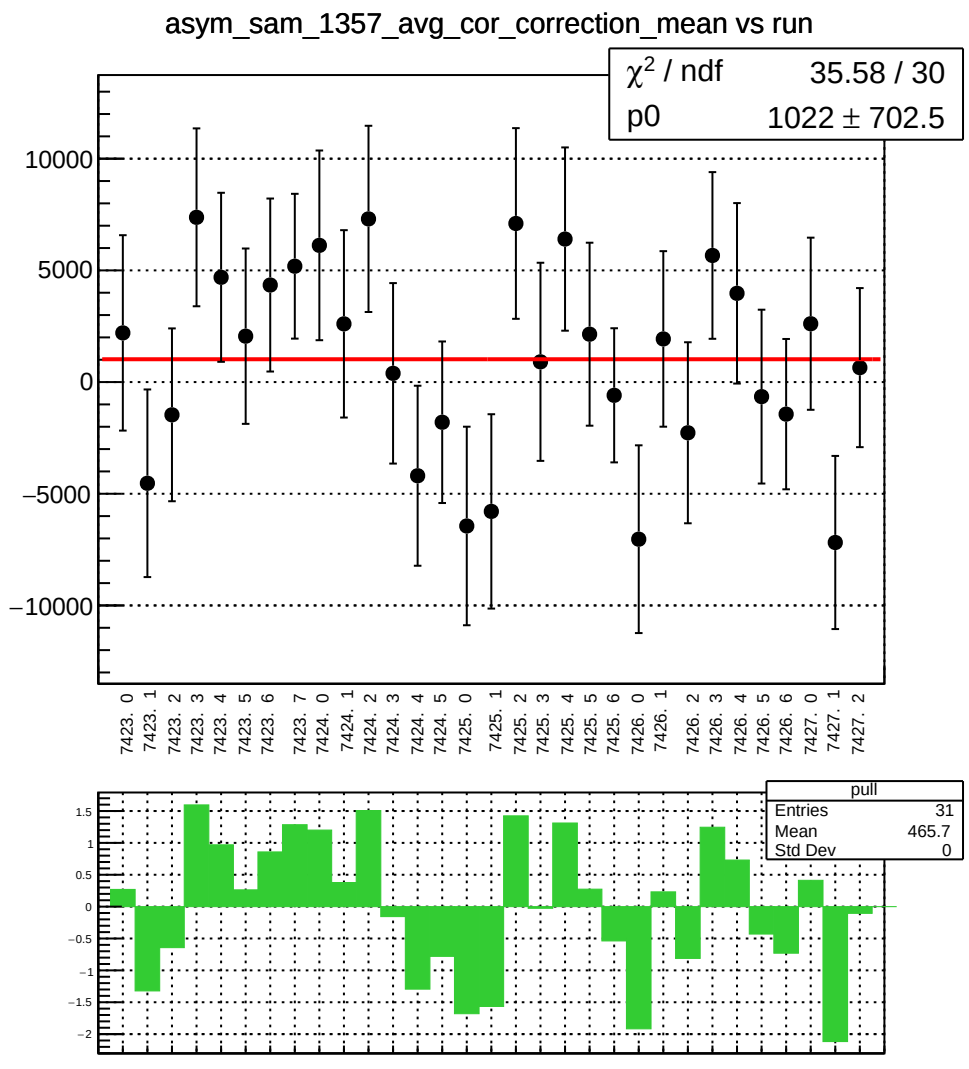

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 35.58 / 30
p0 1022 ± 702.5
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 465.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.005129
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

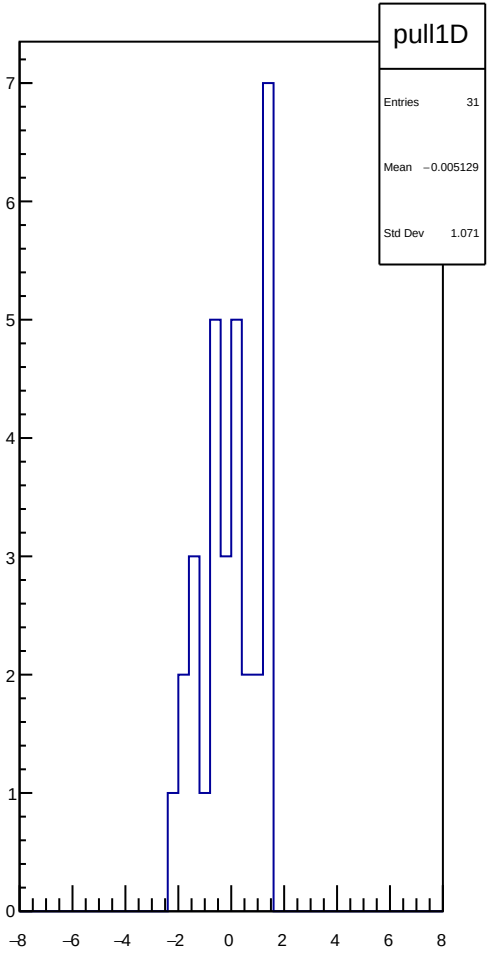

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1216 / 30
p0 382.9 ± 0.4967
430
420
410
400
390
380
370
360
350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

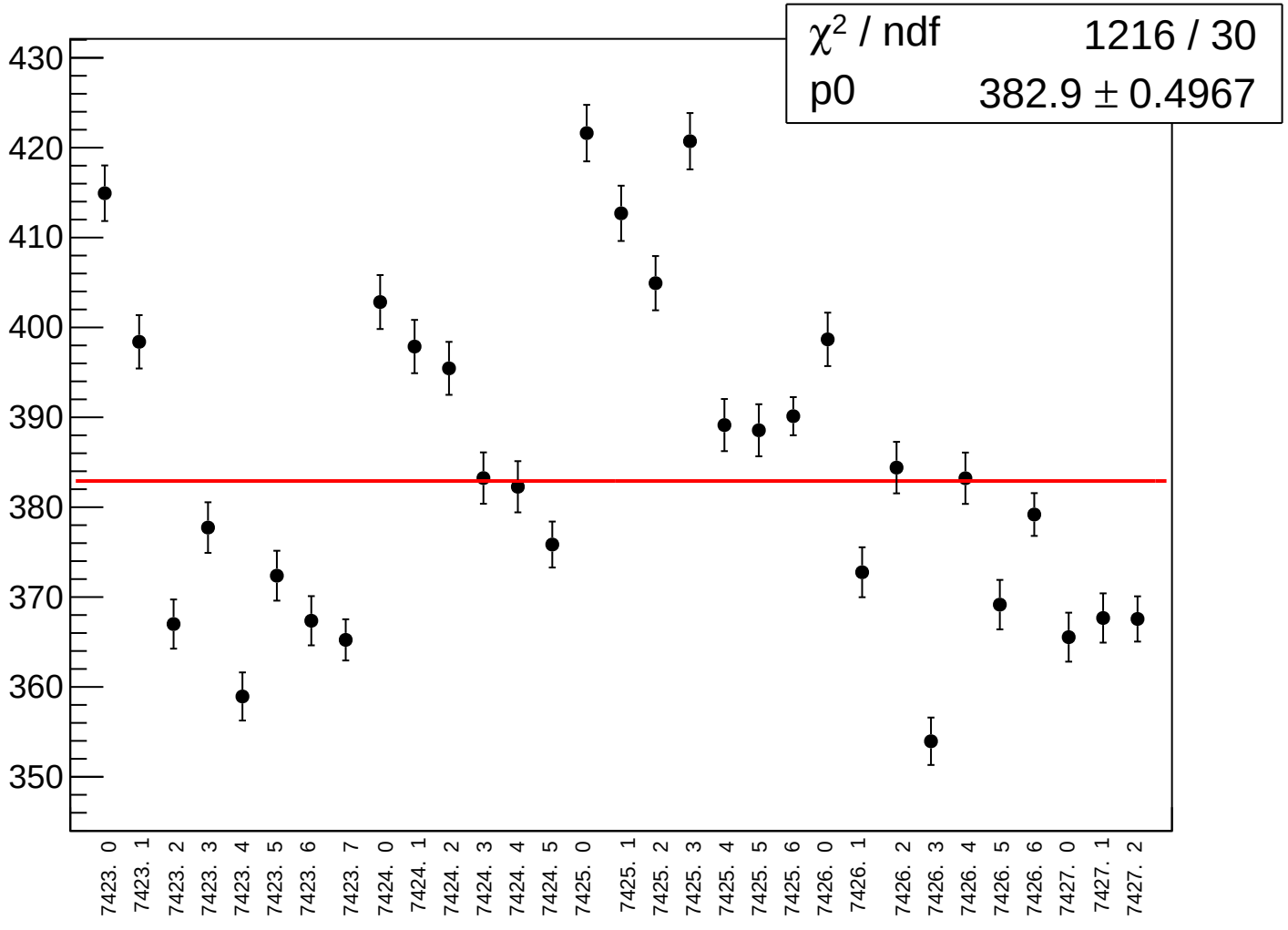

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 41.42 / 30
p0 −270.7 ± 131.9
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1390
Std Dev 0
2
1
0
−1
−2
−3

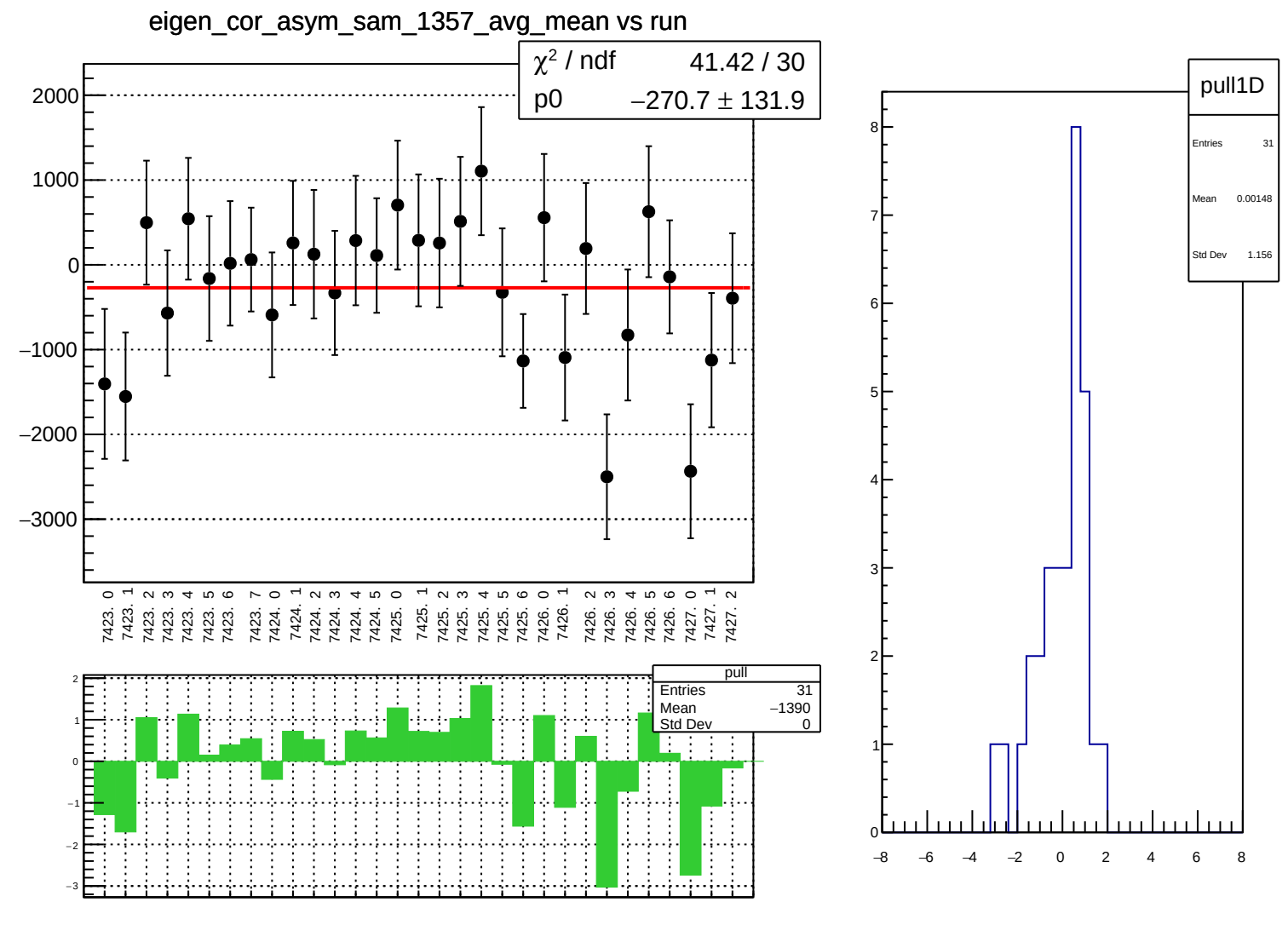

pull1D
Entries 31
Mean 0.00148
Std Dev 1.156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

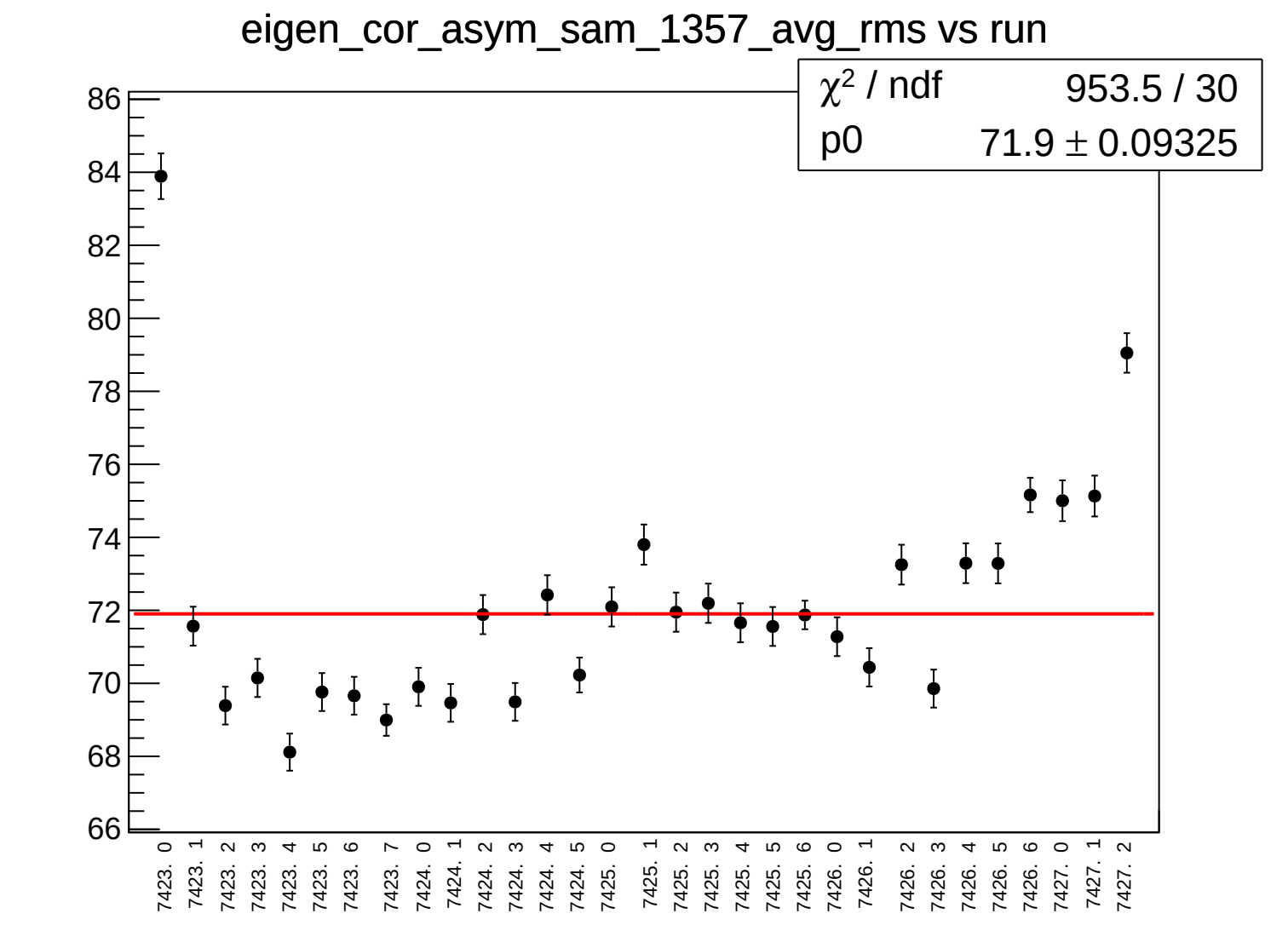

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 953.5 / 30
p0 71.9 ± 0.09325
86
84
82
80
78
76
74
72
70
68
66
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 35.58 / 30
p0 1022 ± 702.5
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 465.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 31
Mean −0.005129
Std Dev 1.071
7
6
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 1216 / 30
p0 382.9 ± 0.4967
430
420
410
400
390
380
370
360
350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 41.42 / 30
p0 −270.7 ± 131.9
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1390
Std Dev 0
pull1D
Entries 31
Mean 0.00148
Std Dev 1.156


eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 953.5 / 30
p0 71.9 ± 0.09325
86
84
82
80
78
76
74
72
70
68
66
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
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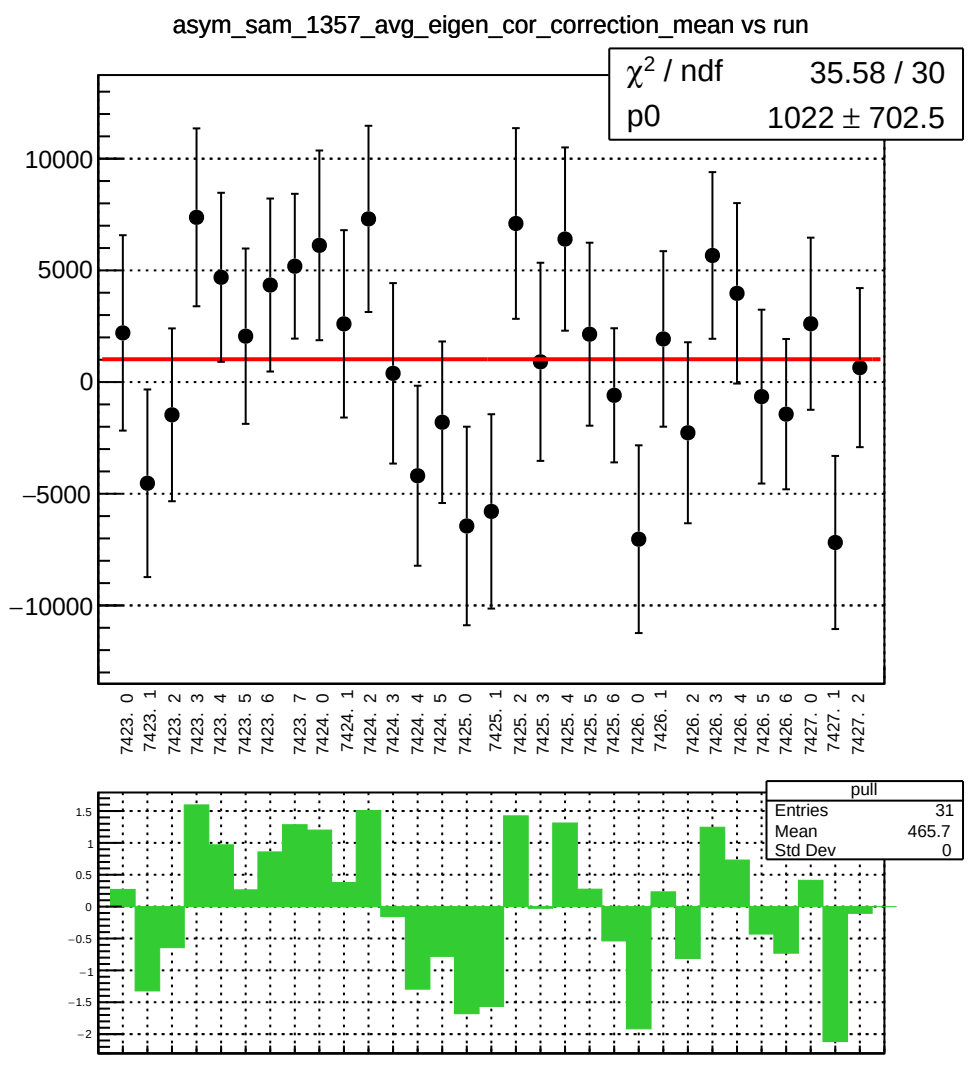
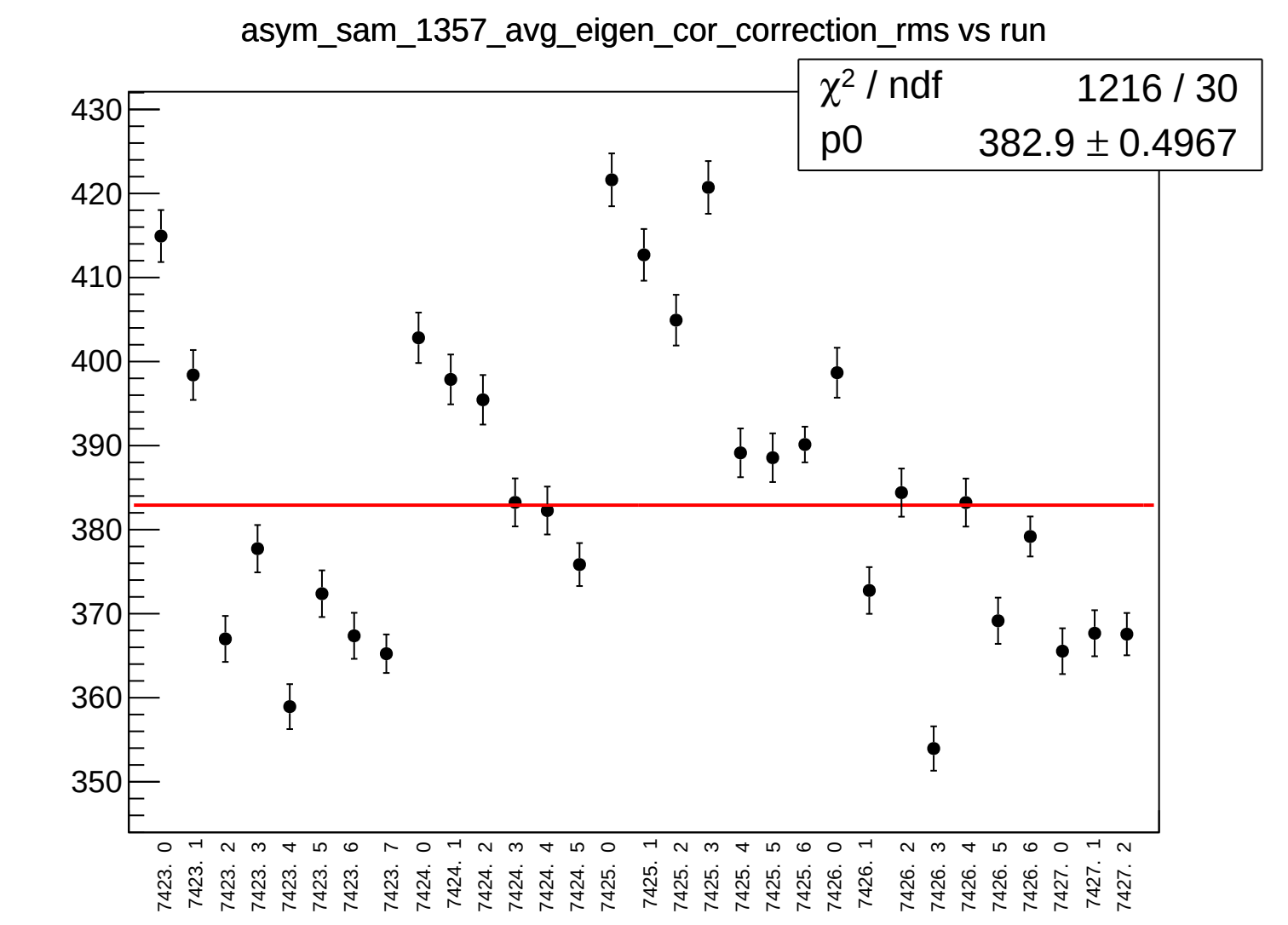
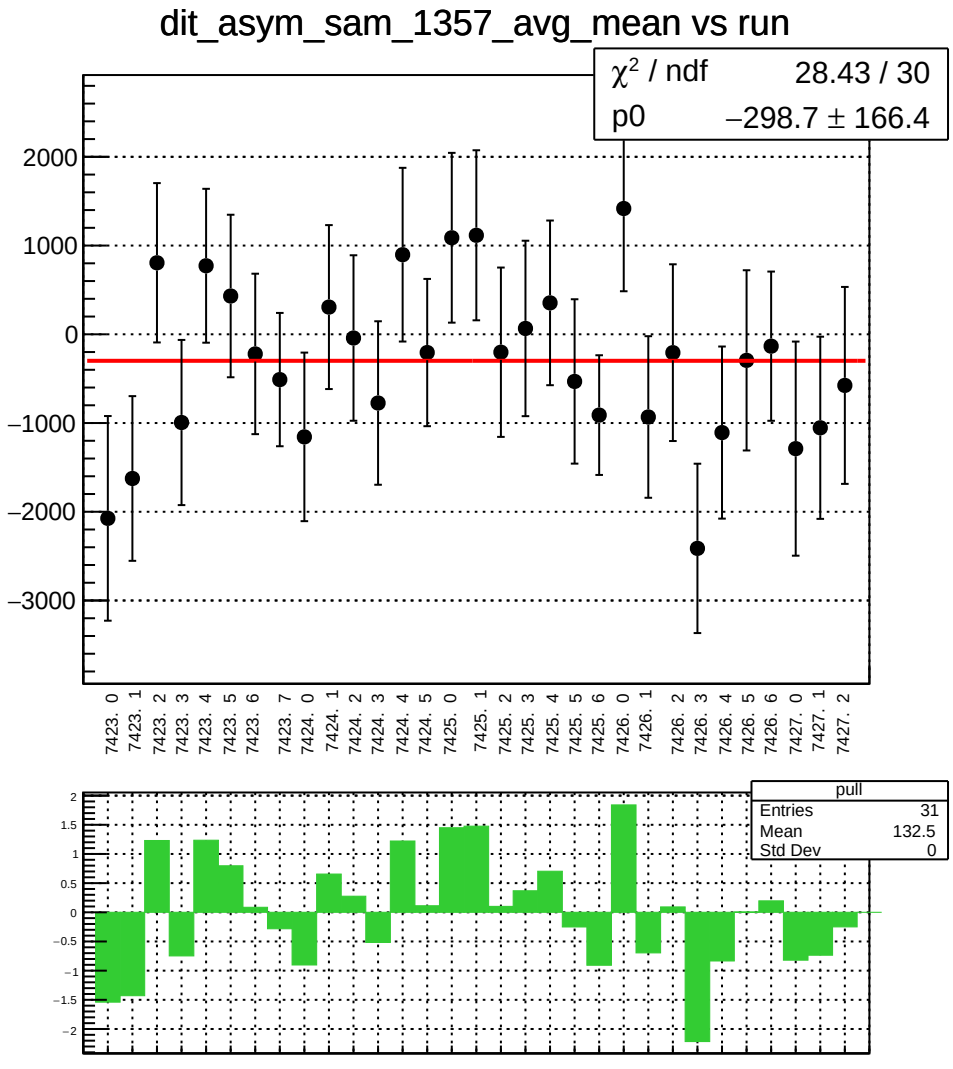
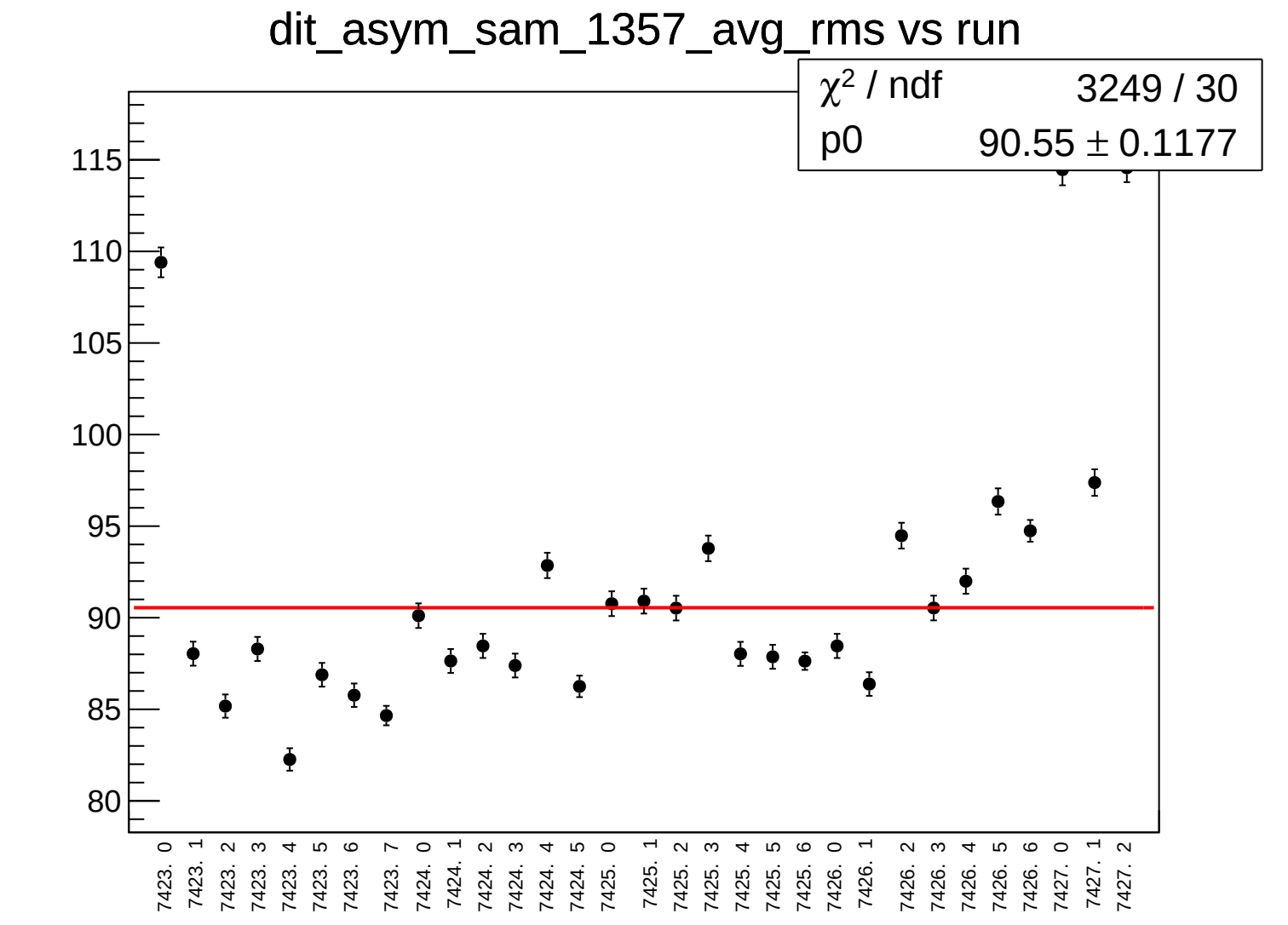
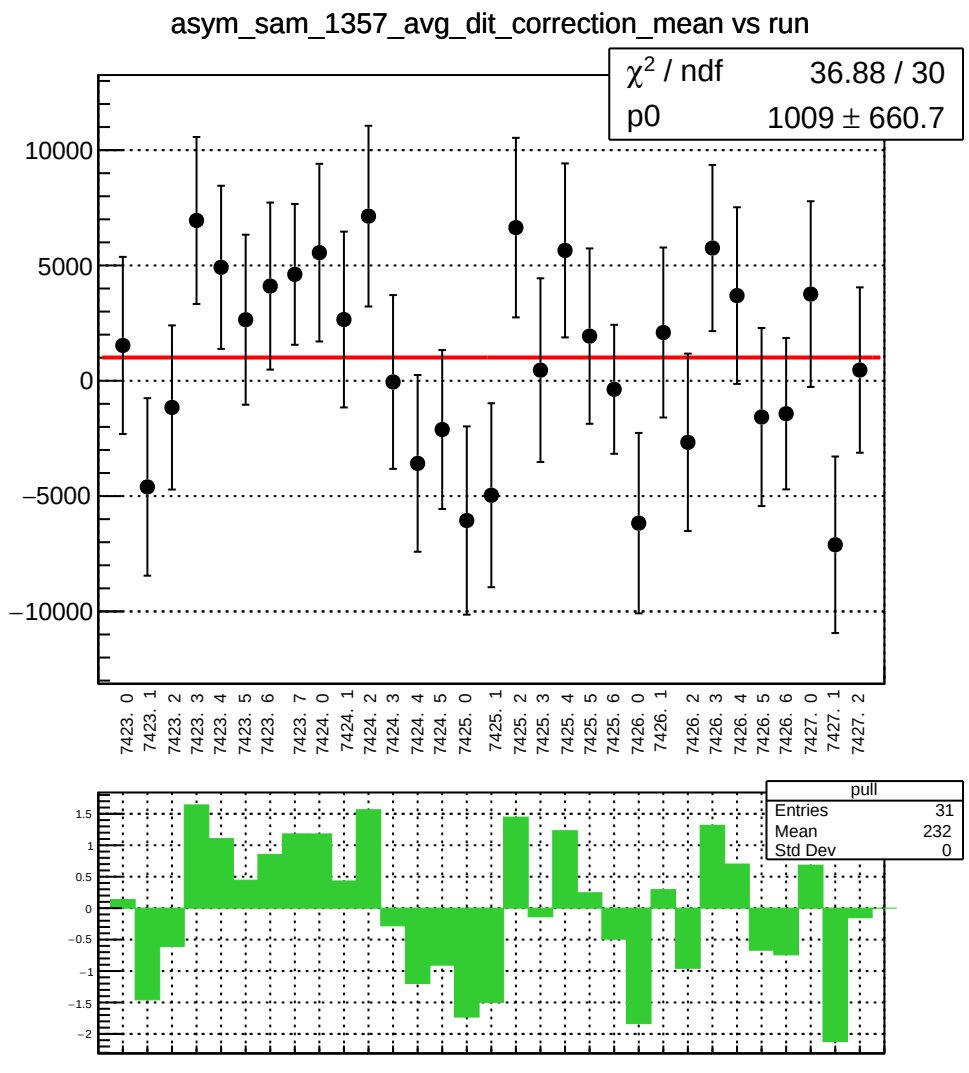
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

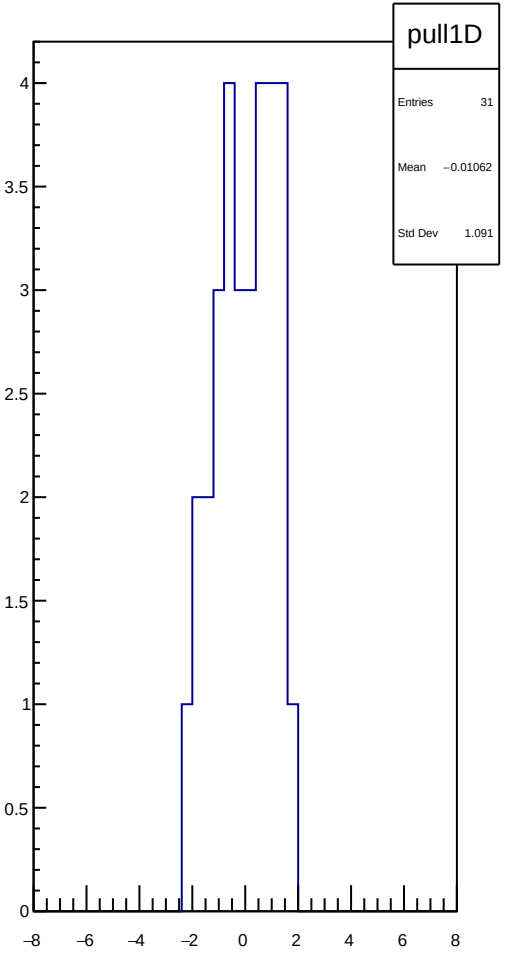

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 35.58 / 30
p0 1022 ± 702.5
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 465.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.005129
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

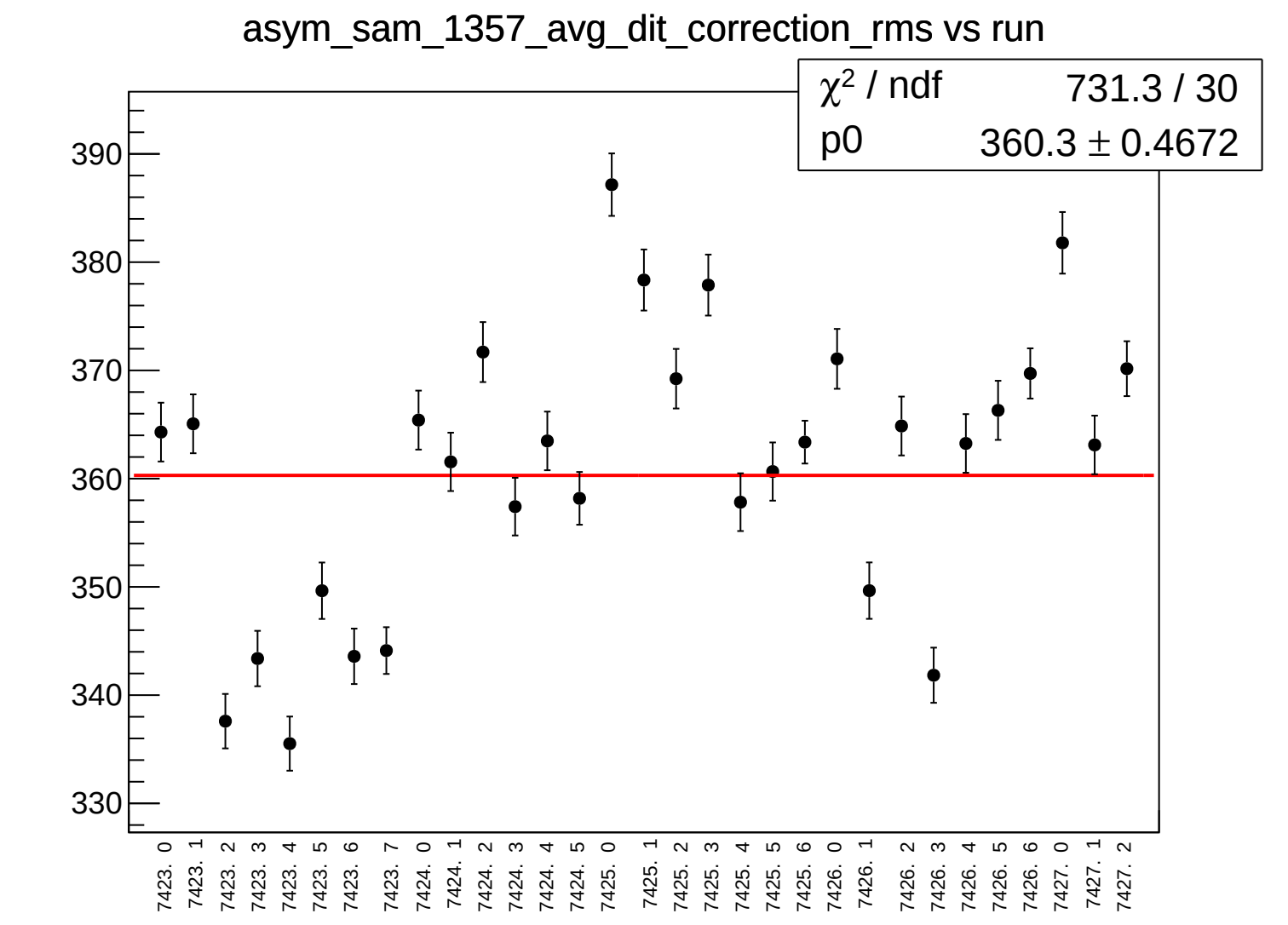

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1216 / 30
p0 382.9 ± 0.4967
430
420
410
400
390
380
370
360
350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

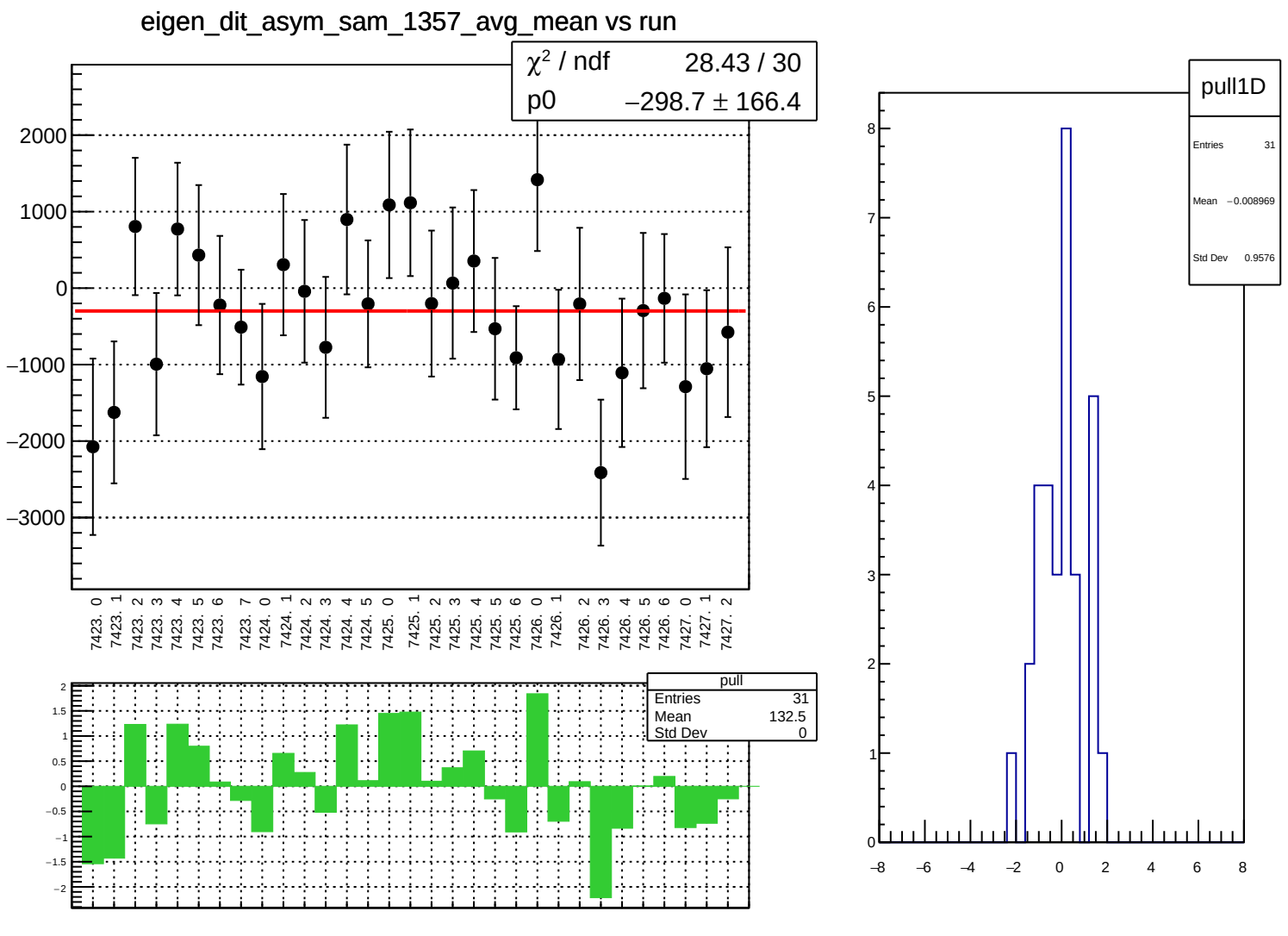

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 28.43 / 30
p0 −298.7 ± 166.4
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 132.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.00897
Std Dev 0.9576
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

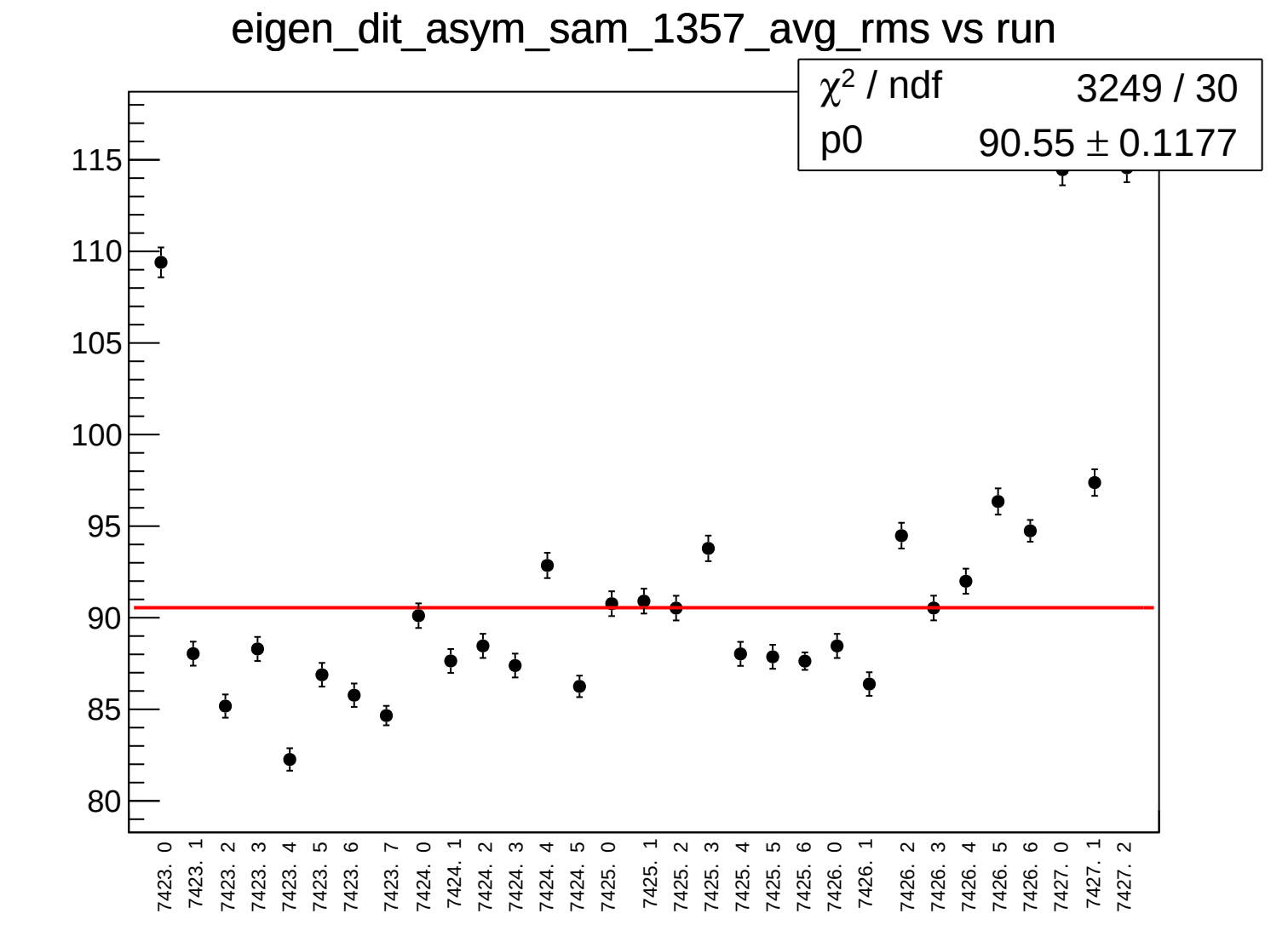

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3249 / 30
p0 90.55 ± 0.1177
115
110
105
100
95
90
85
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

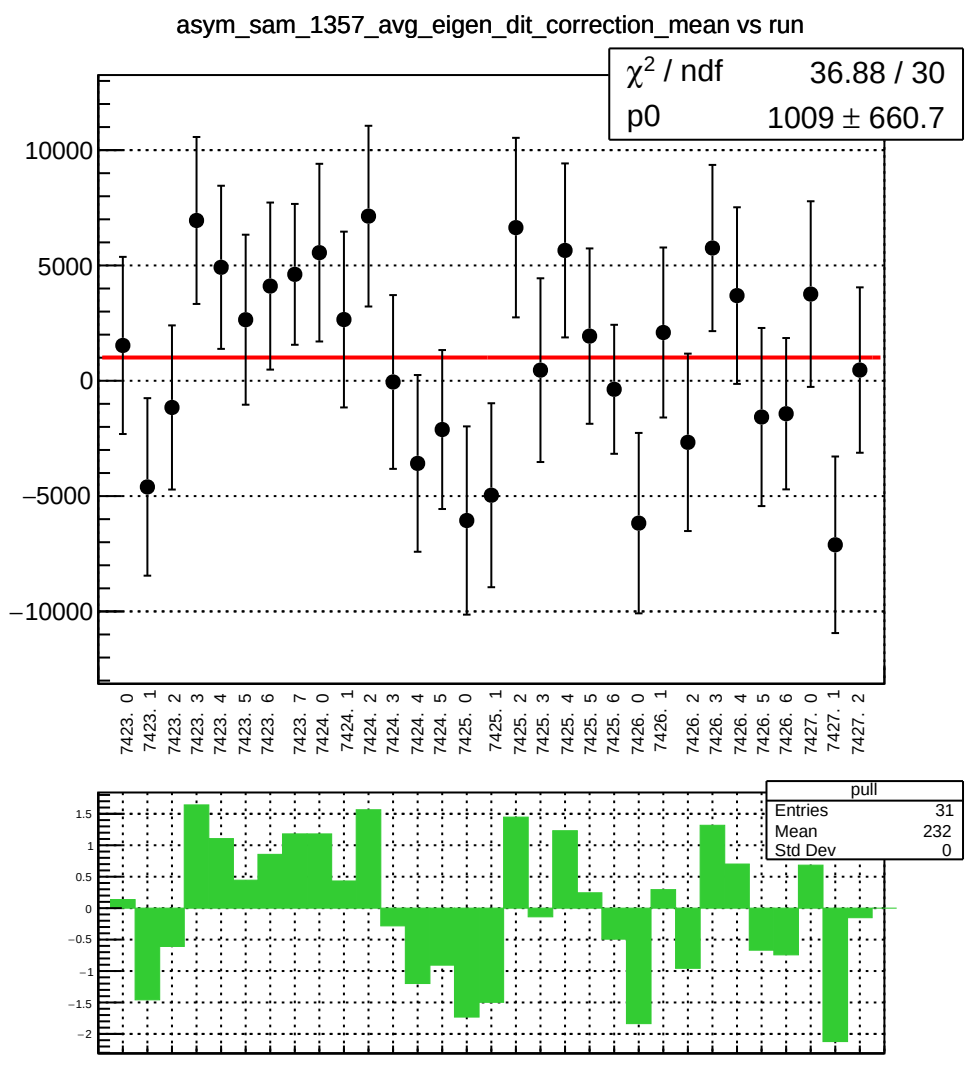

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 36.88 / 30
p0 1009 ± 660.7
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 232
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

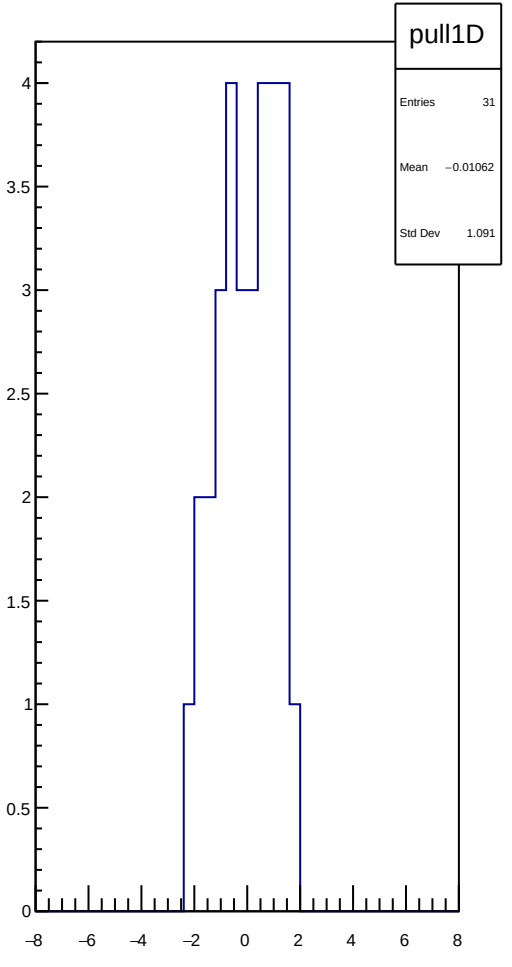

pull1D
Entries 31
Mean −0.01062
Std Dev 1.091
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

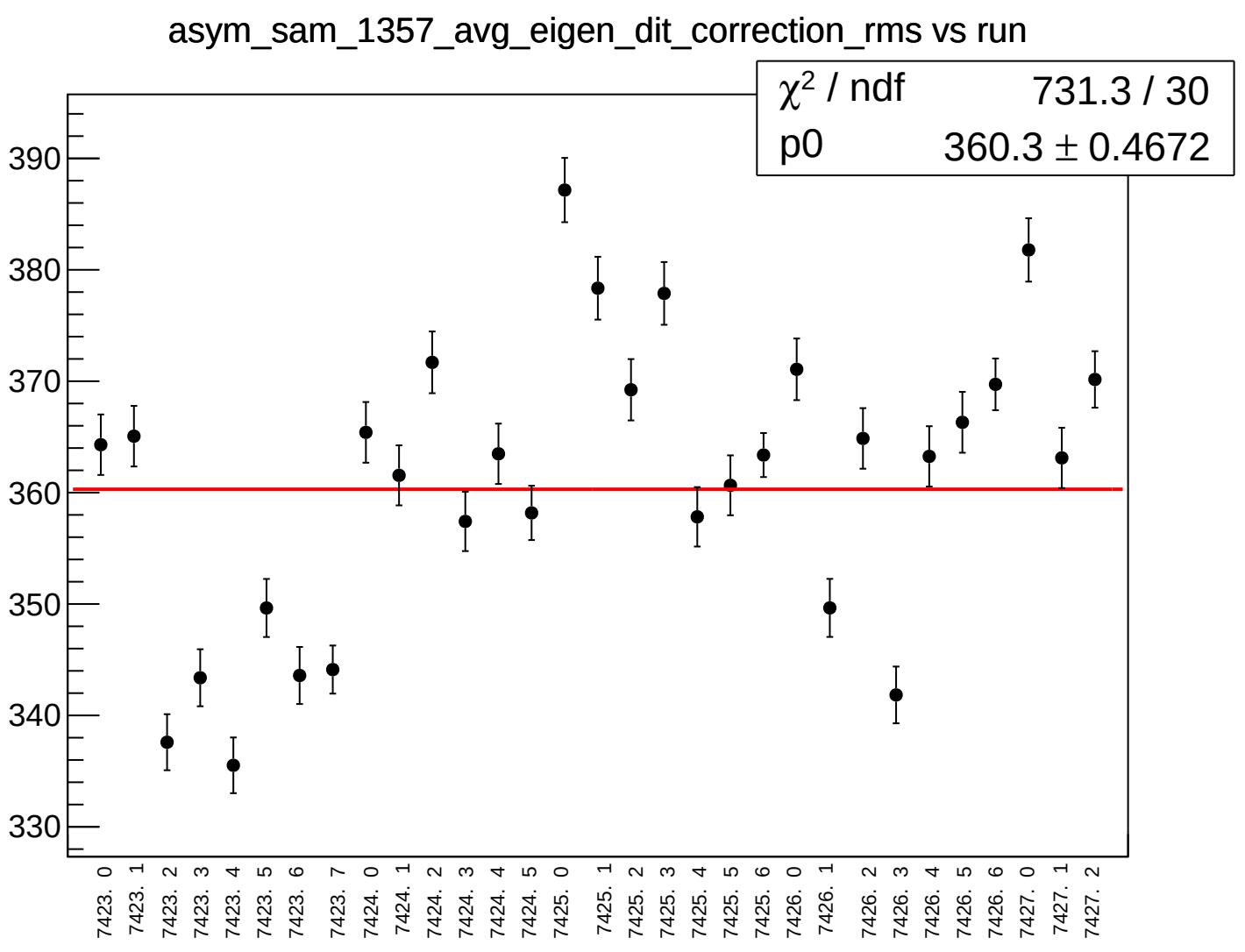

asym_sam_1357_avg_dit_correction_rms vs run
χ^2 / ndf 731.3 / 30
p0 360.3 ± 0.4672
390
380
370
360
350
340
330
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

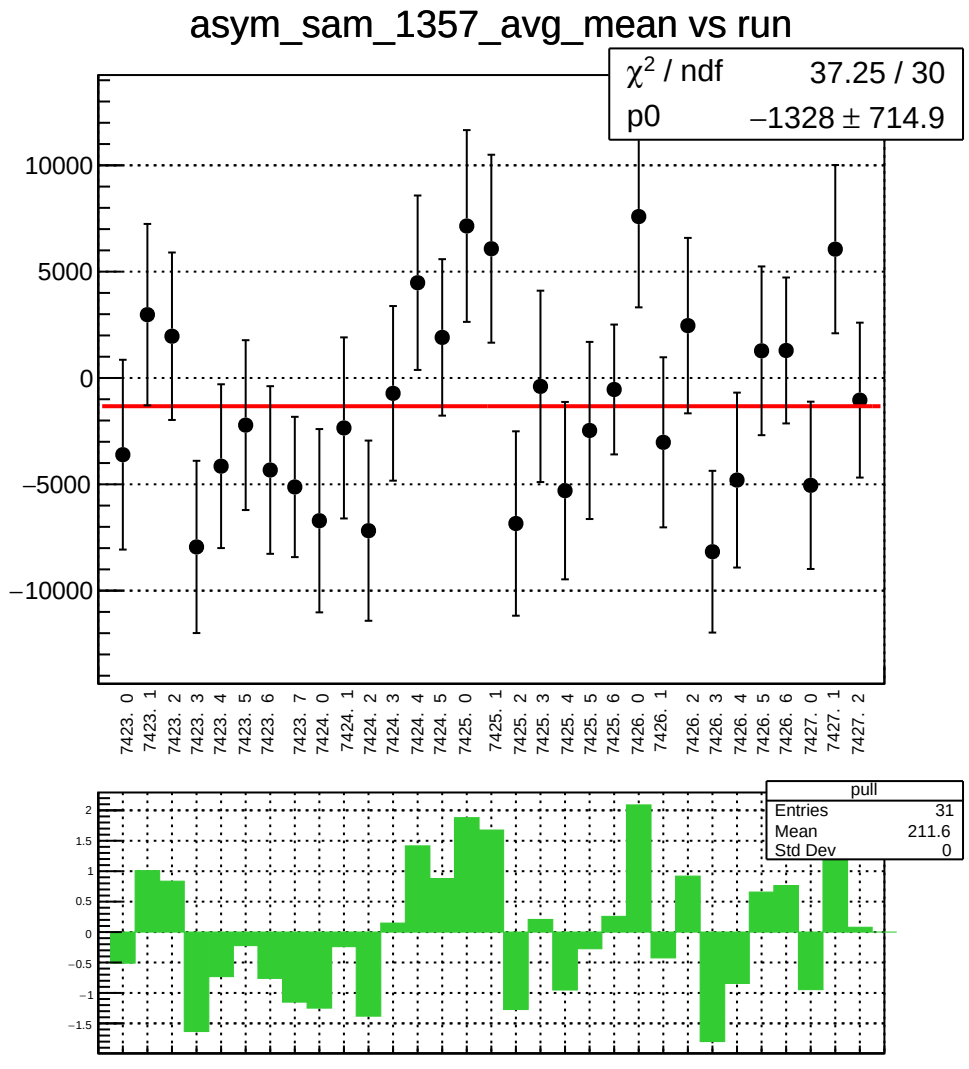

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 28.43 / 30
p0 −298.7 ± 166.4
2000
1000
0
−1000
−2000
−3000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 132.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.008969
Std Dev 0.9576
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

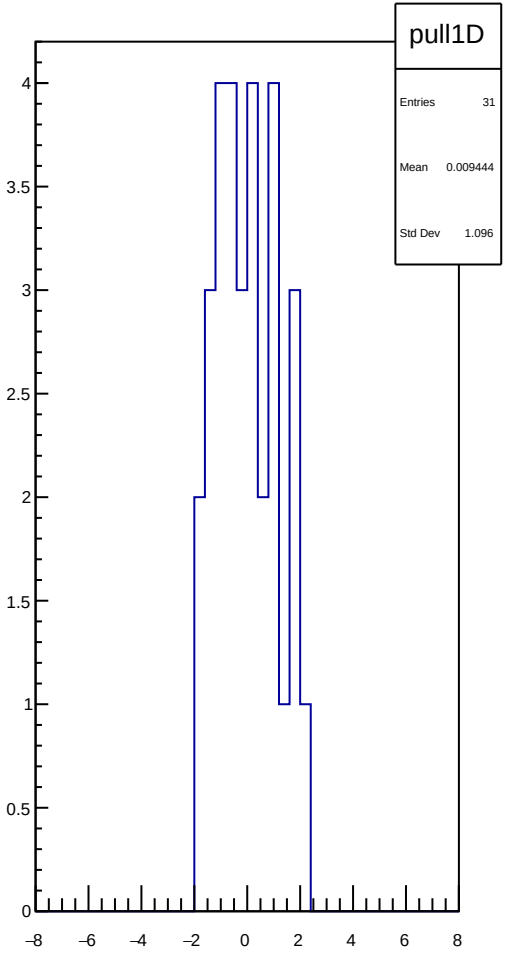

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3249 / 30
p0 90.55 ± 0.1177
115
110
105
100
95
90
85
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

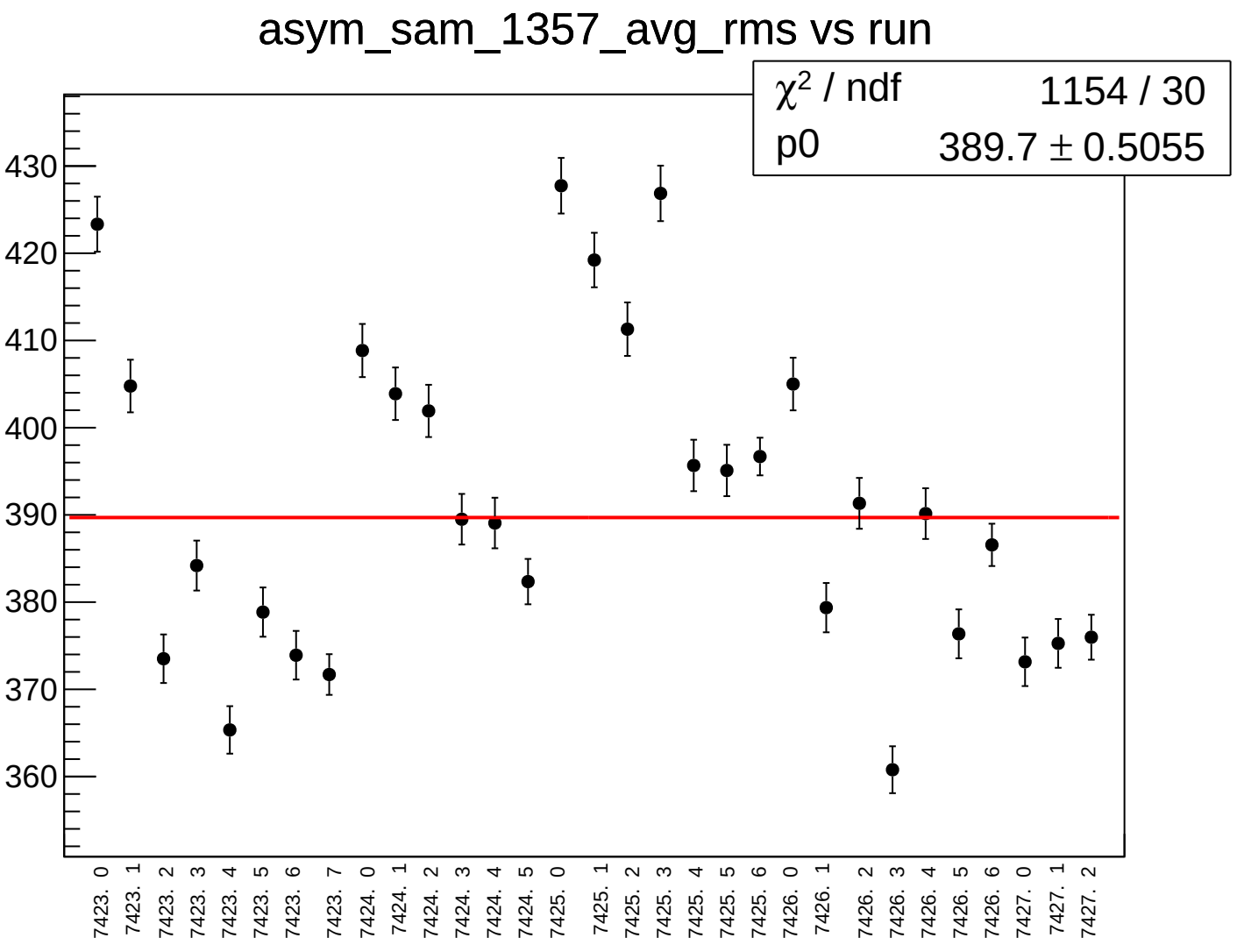

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 36.88 / 30
p0 1009 ± 660.7
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 232
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

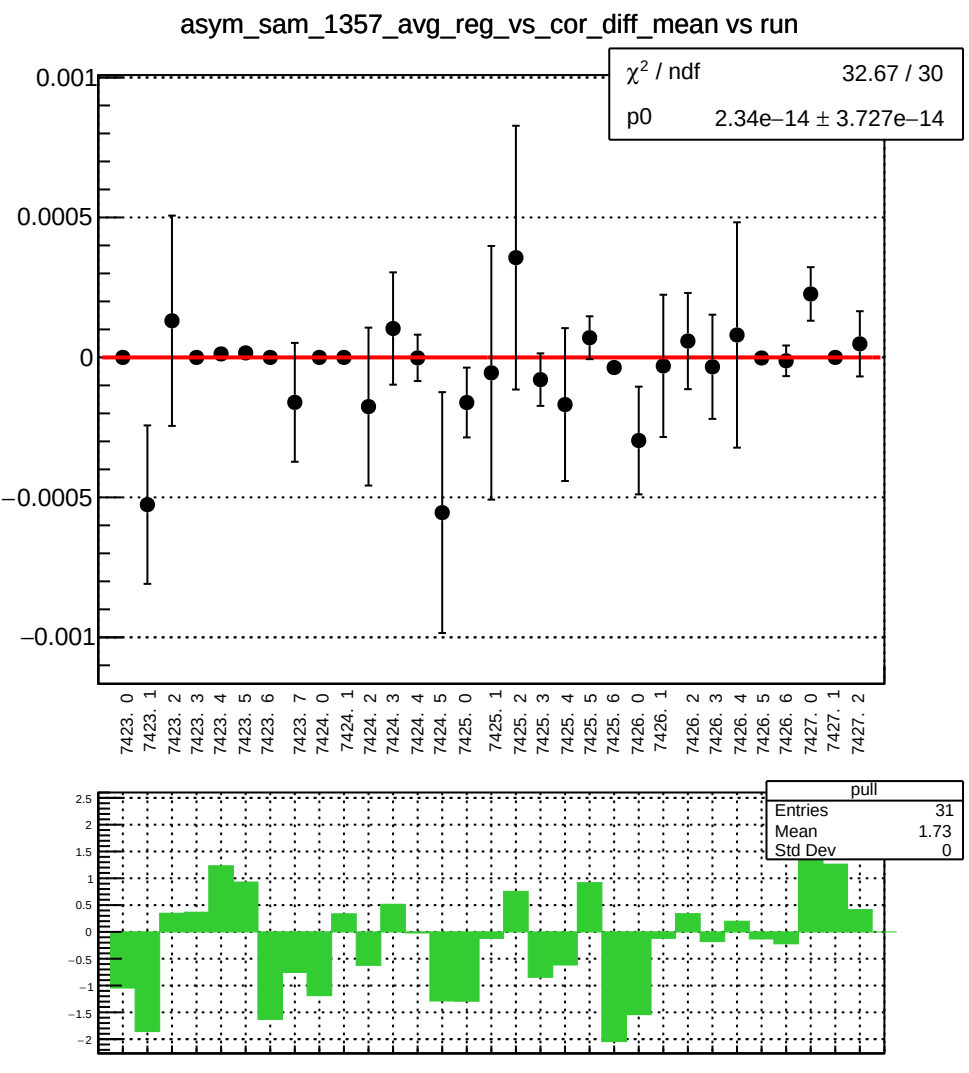

pull1D
Entries 31
Mean −0.01062
Std Dev 1.091
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

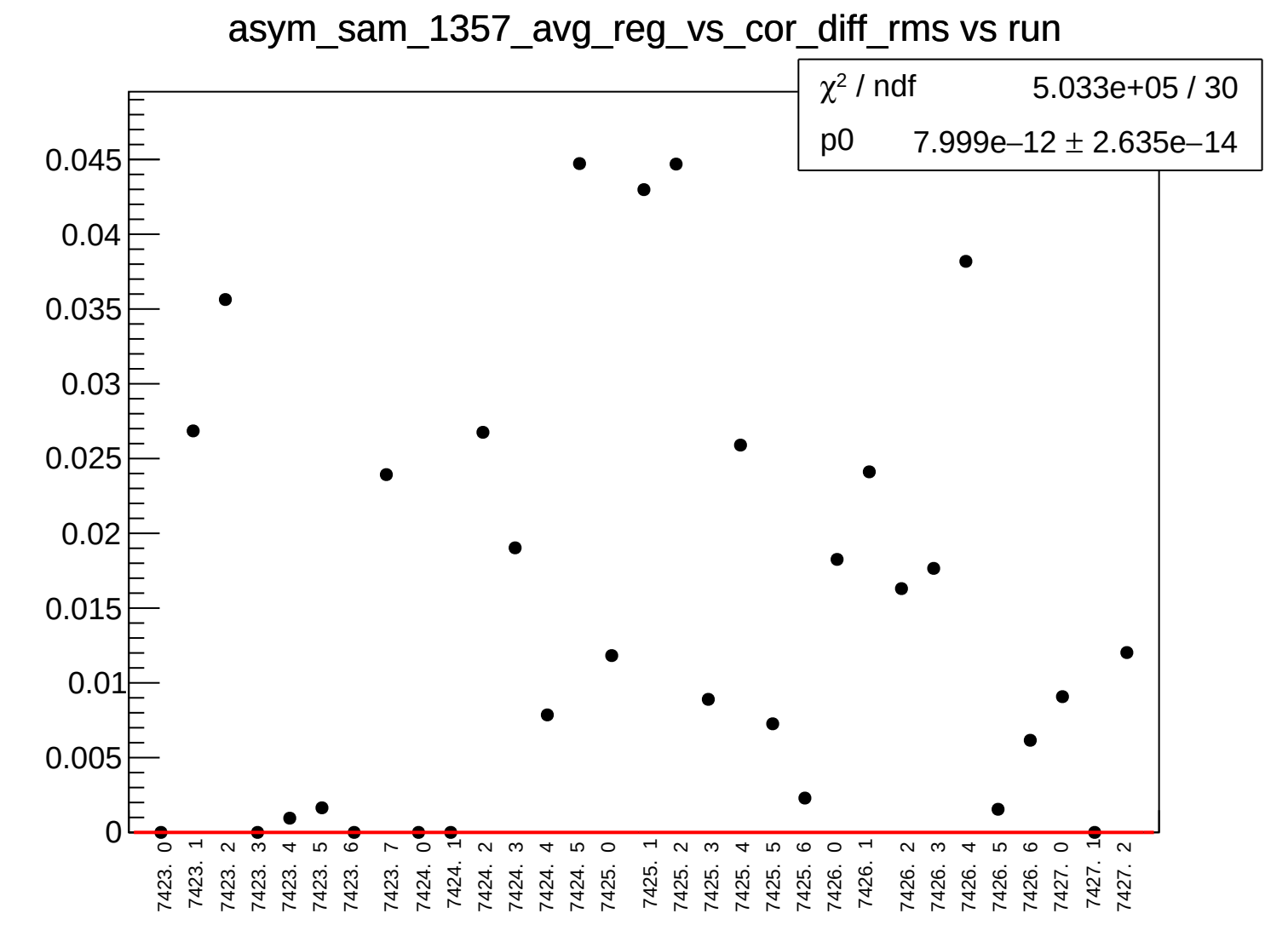

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 731.3 / 30
p0 360.3 ± 0.4672
390
380
370
360
350
340
330
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

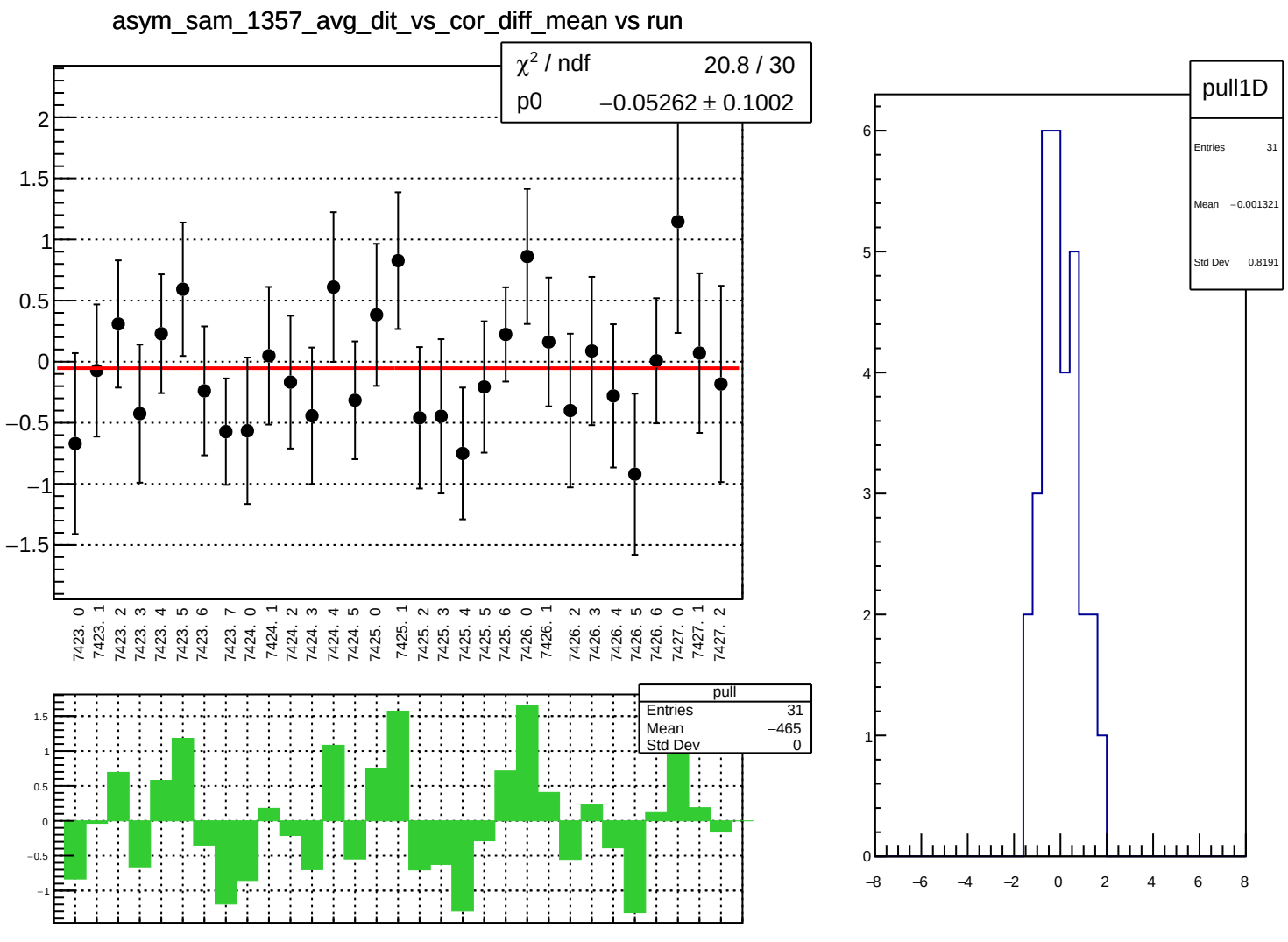

asym_sam_1357_avg_mean vs run
χ² / ndf 37.25 / 30
p0 −1328 ± 714.9
10000
5000
0
−5000
−10000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 211.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

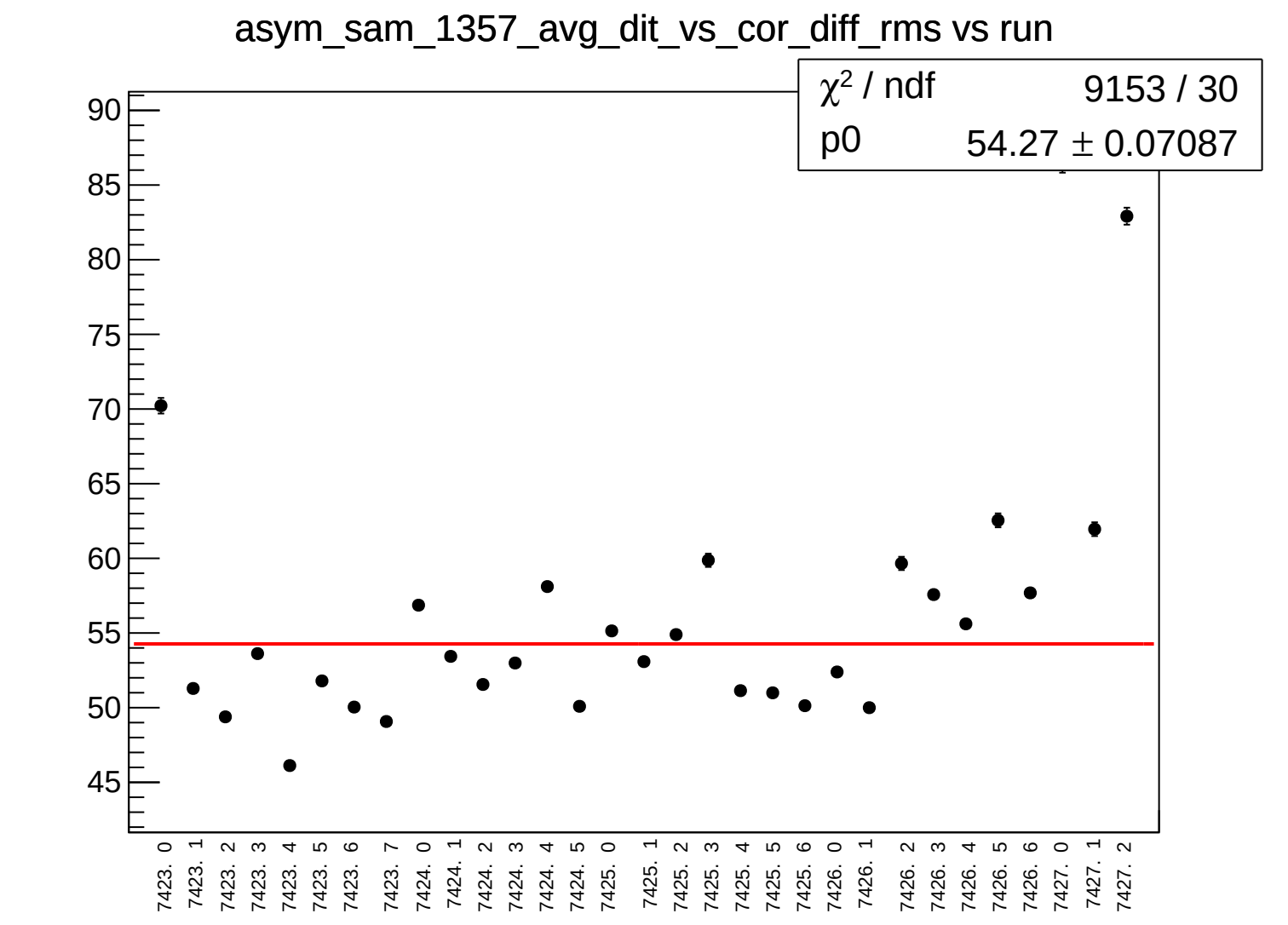

pull1D
Entries 31
Mean 0.009444
Std Dev 1.096
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

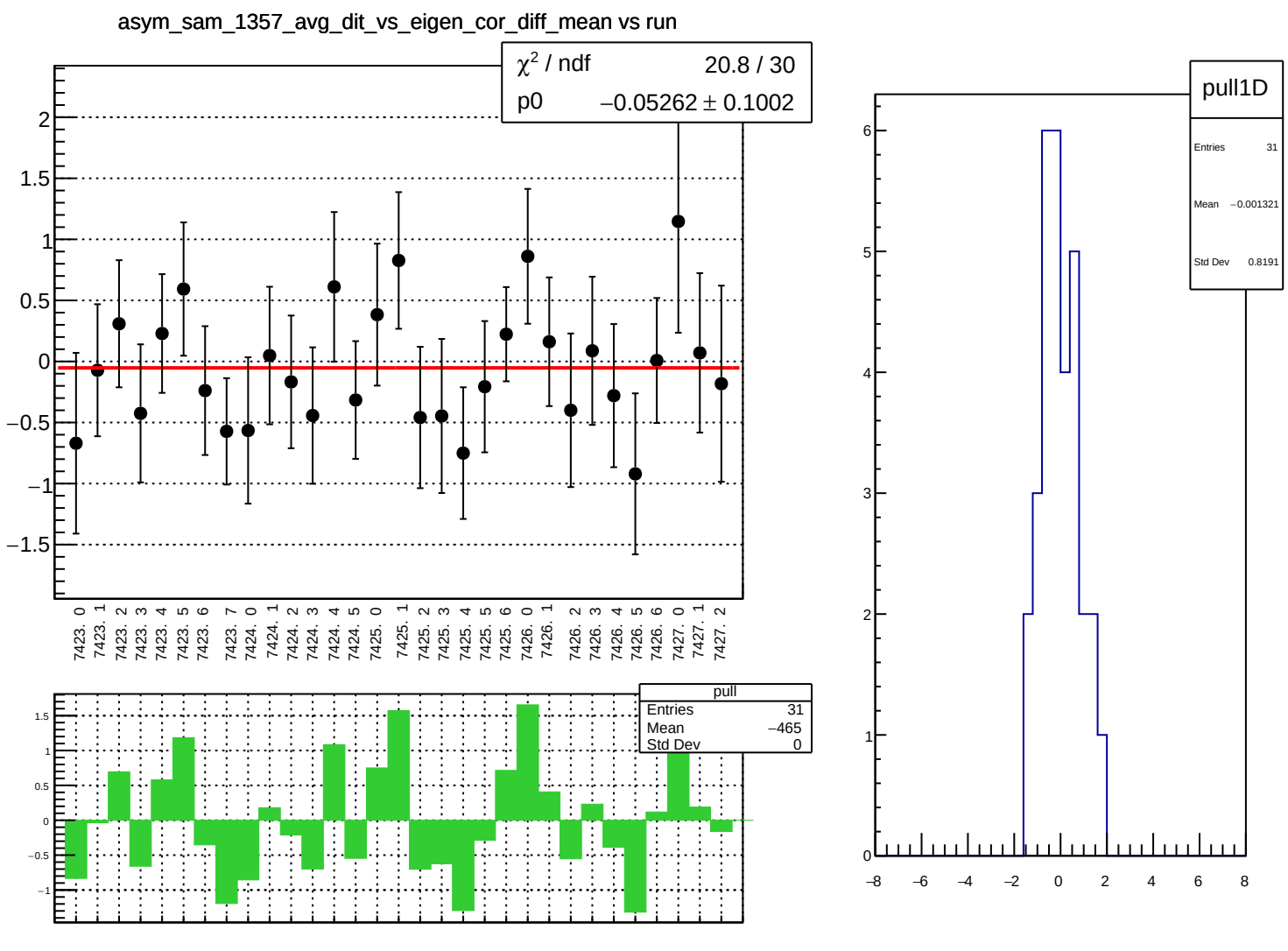

asym_sam_1357_avg_rms vs run
χ^2 / ndf 1154 / 30
p0 389.7 ± 0.5055
430
420
410
400
390
380
370
360
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

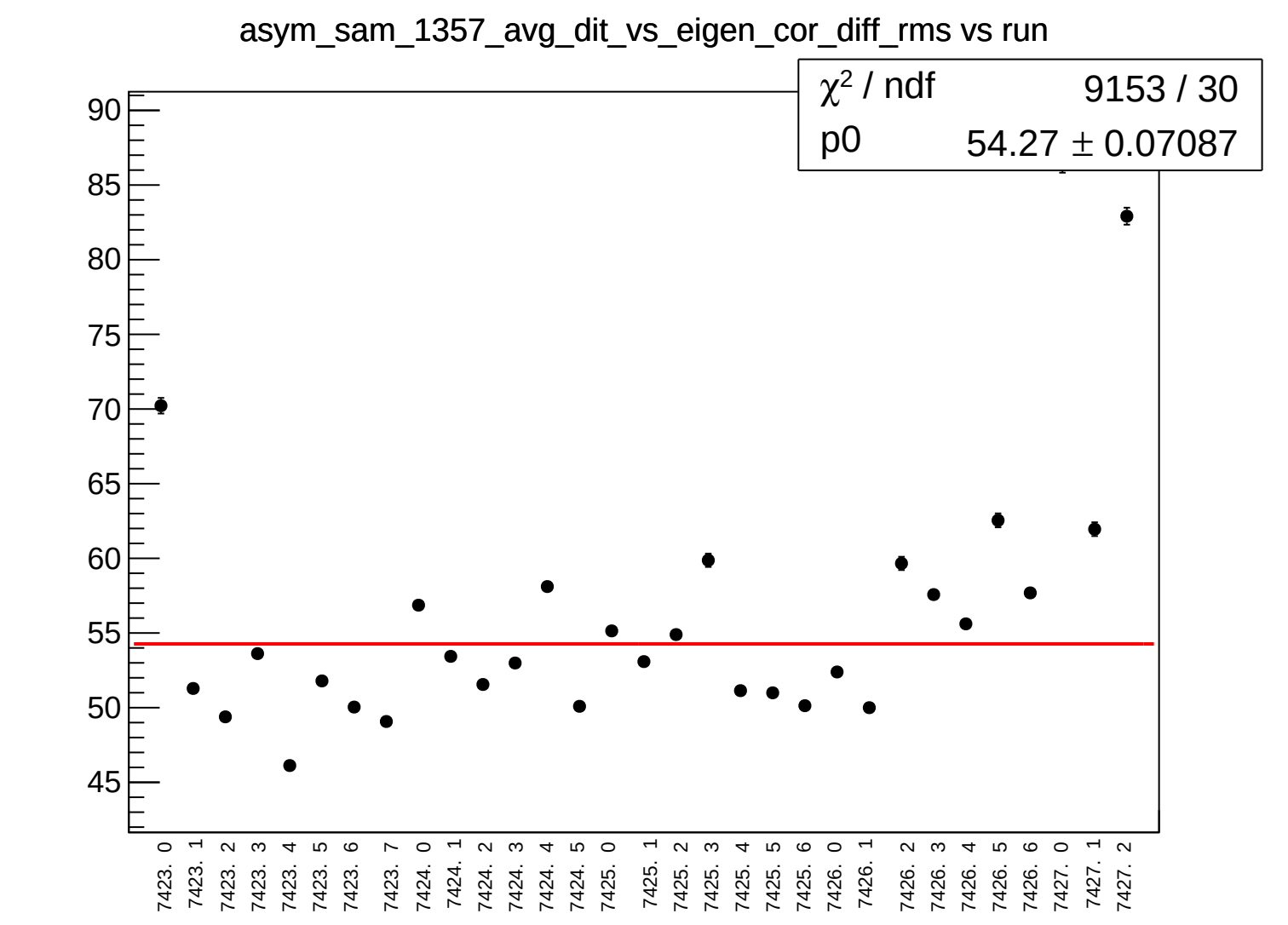

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 32.67 / 30
p0 2.34e−14 ± 3.727e−14
0.001
0.0005
0
−0.0005
−0.001
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.1785
Std Dev 1.011
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

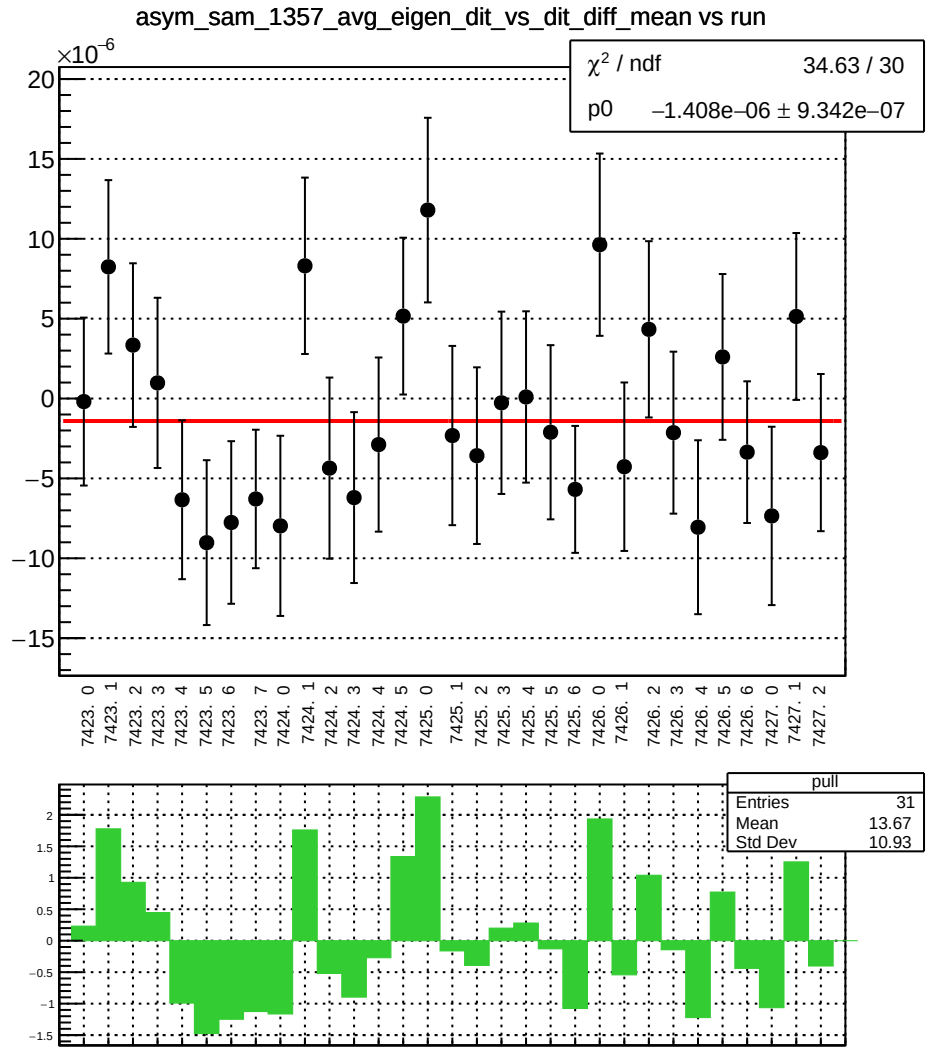

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.033e+05 / 30
p0 7.999e−12 ± 2.635e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

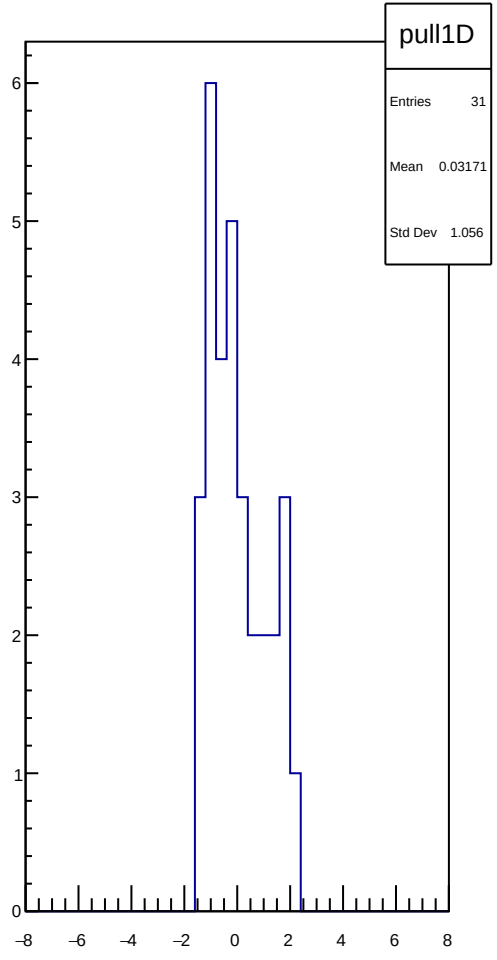

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.8 / 30
p0 −0.05262 ± 0.1002
pull
Entries 31
Mean −465
Std Dev 0
pull1D
Entries 31
Mean −0.001321
Std Dev 0.8191

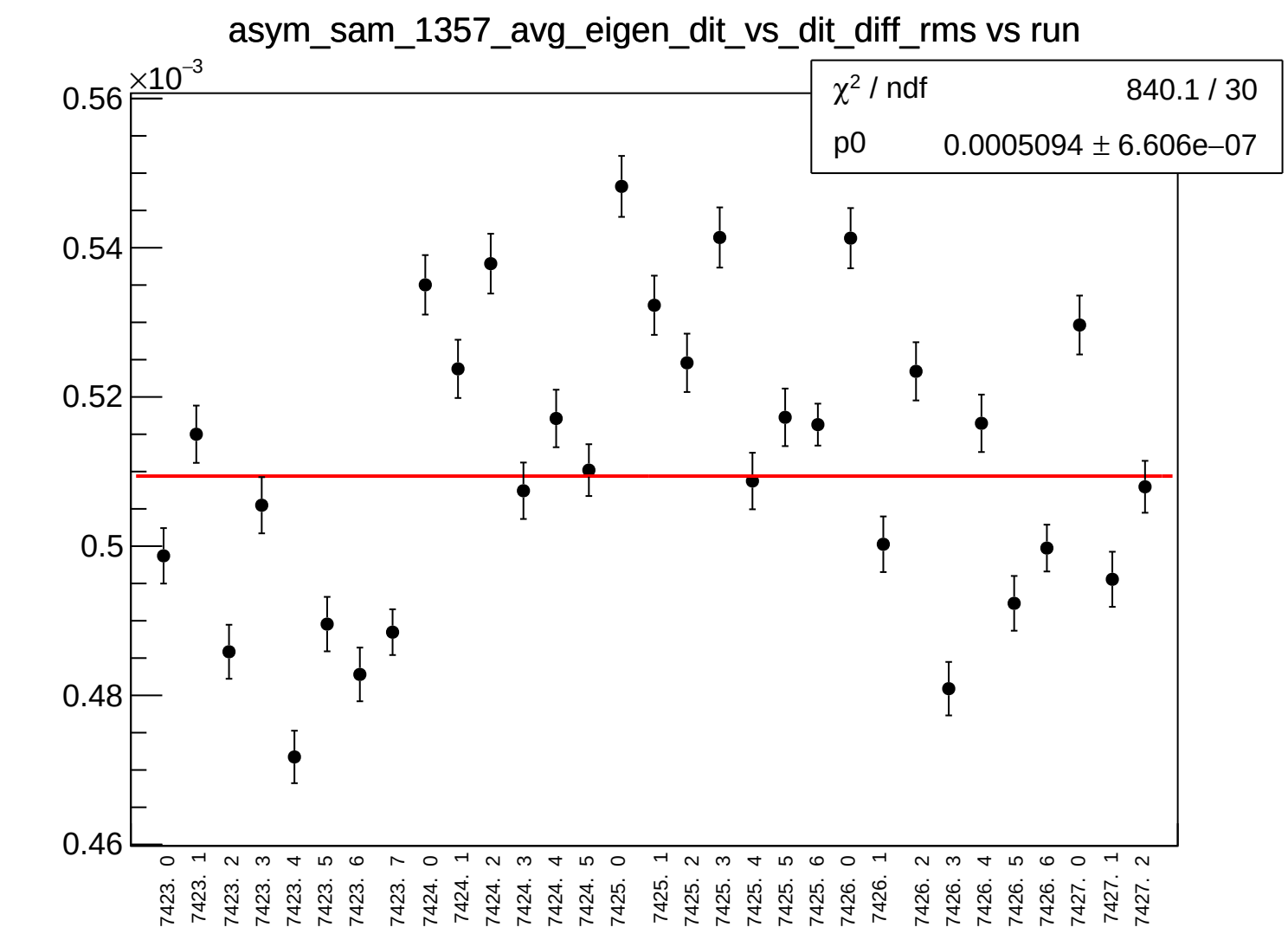

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9153 / 30
p0 54.27 ± 0.07087
90
85
80
75
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

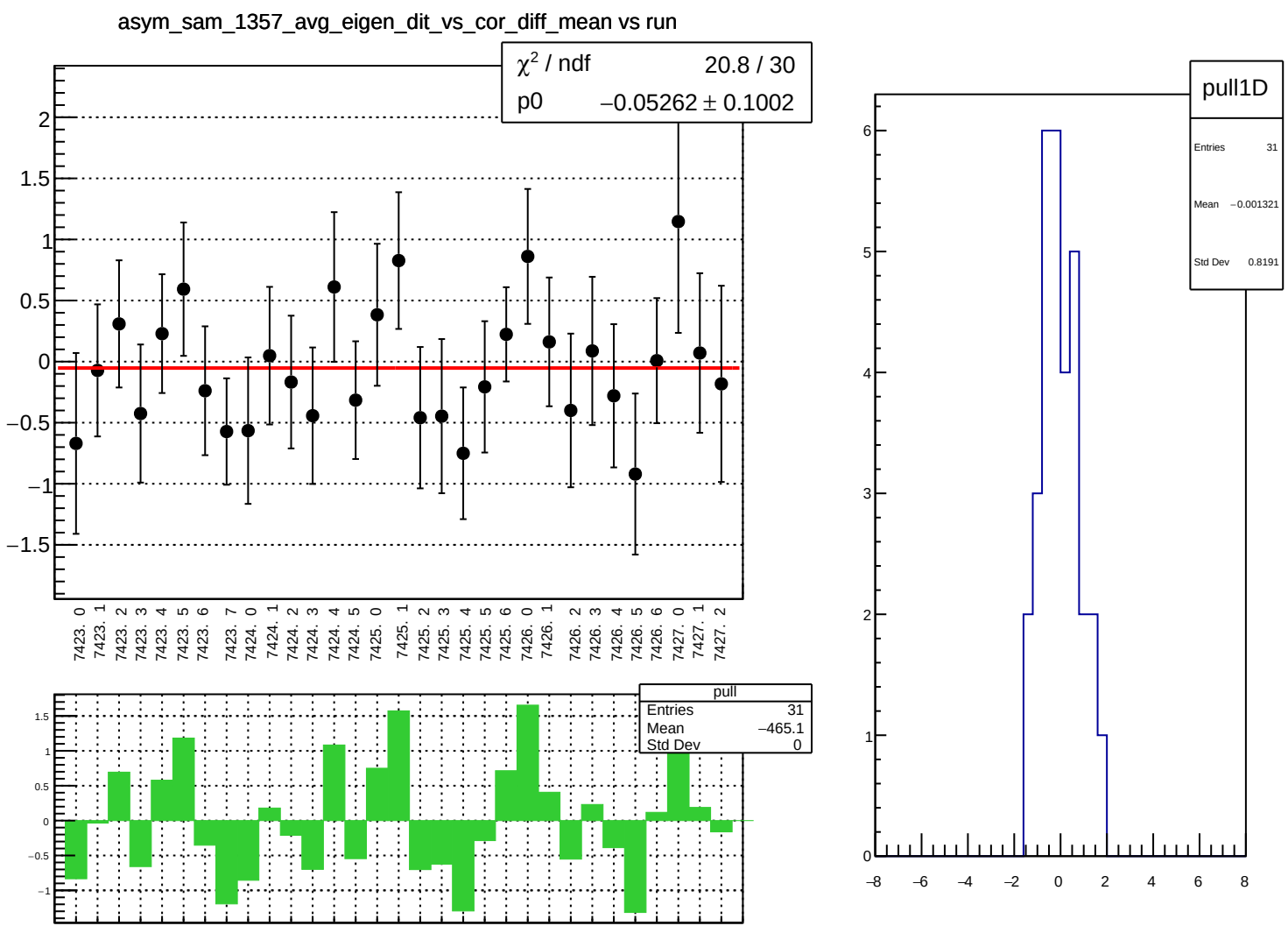

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.8 / 30
p0 −0.05262 ± 0.1002
2
1.5
1
0.5
0
−0.5
−1
−1.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −465
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.001321
Std Dev 0.8191
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

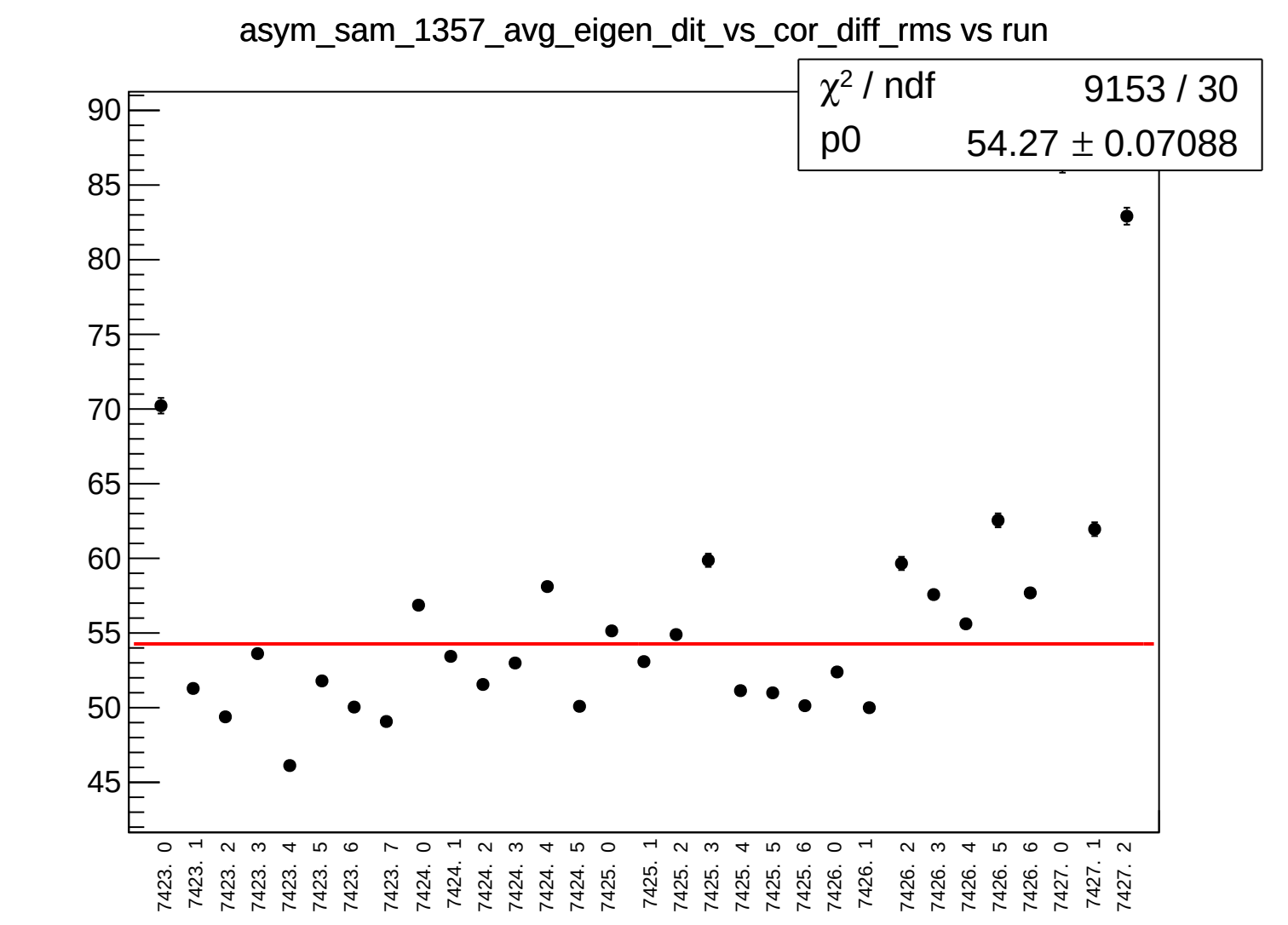

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9153 / 30
p0 54.27 ± 0.07087
90
85
80
75
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

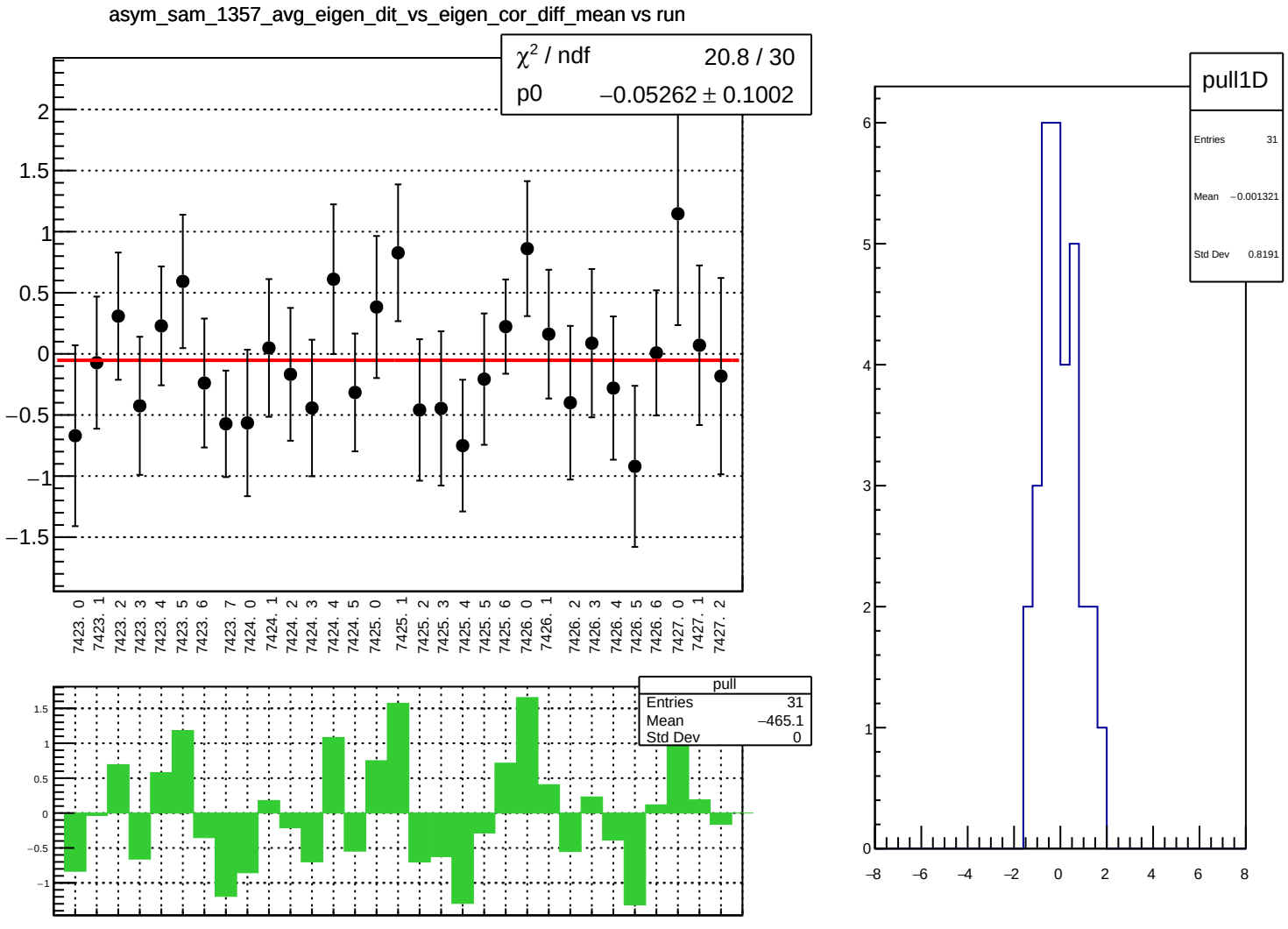

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 34.63 / 30
p0 −1.408e−06 ± 9.342e−07
pull
Entries 31
Mean 13.67
Std Dev 10.93

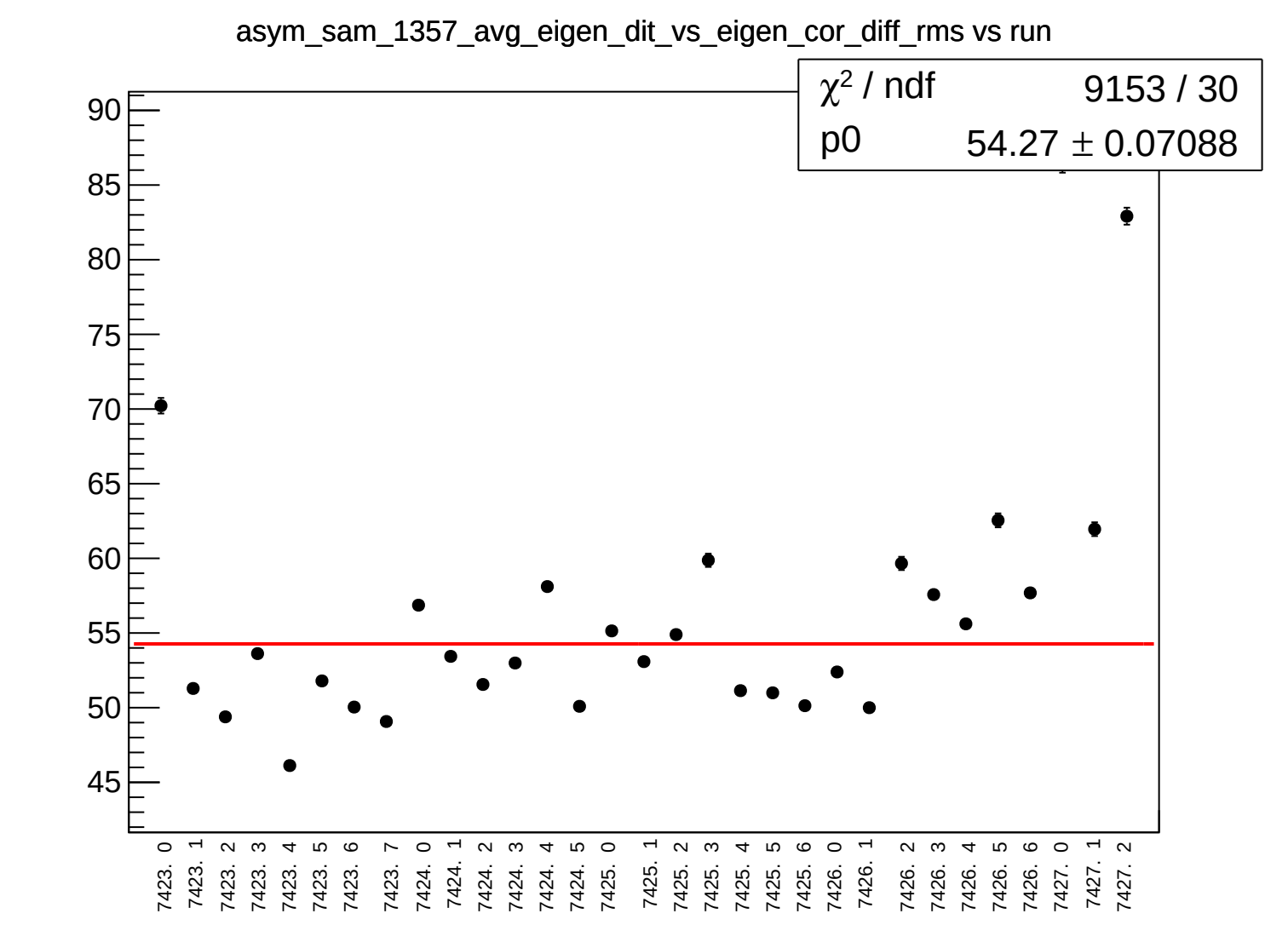

pull1D
Entries 31
Mean 0.03171
Std Dev 1.056

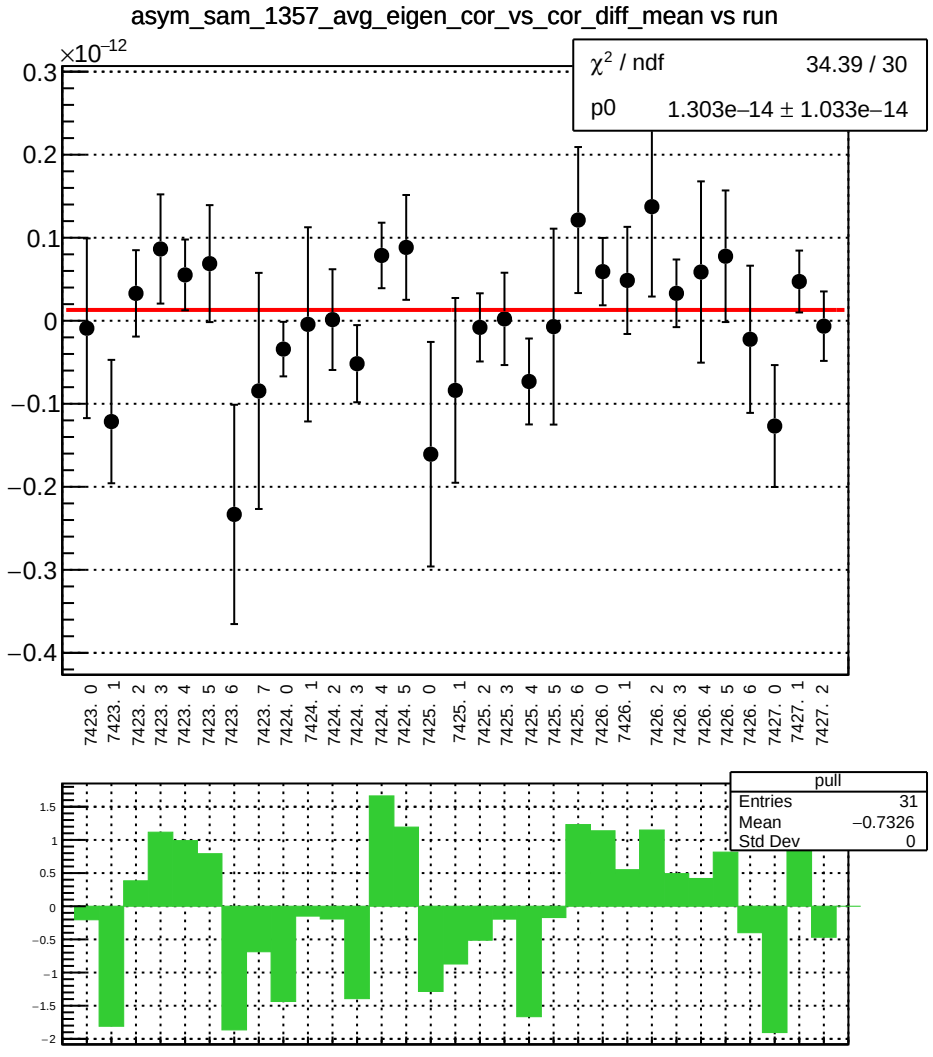

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 840.1 / 30
p0 0.0005094 ± 6.606e−07
0.56
0.54
0.52
0.5
0.48
0.46
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

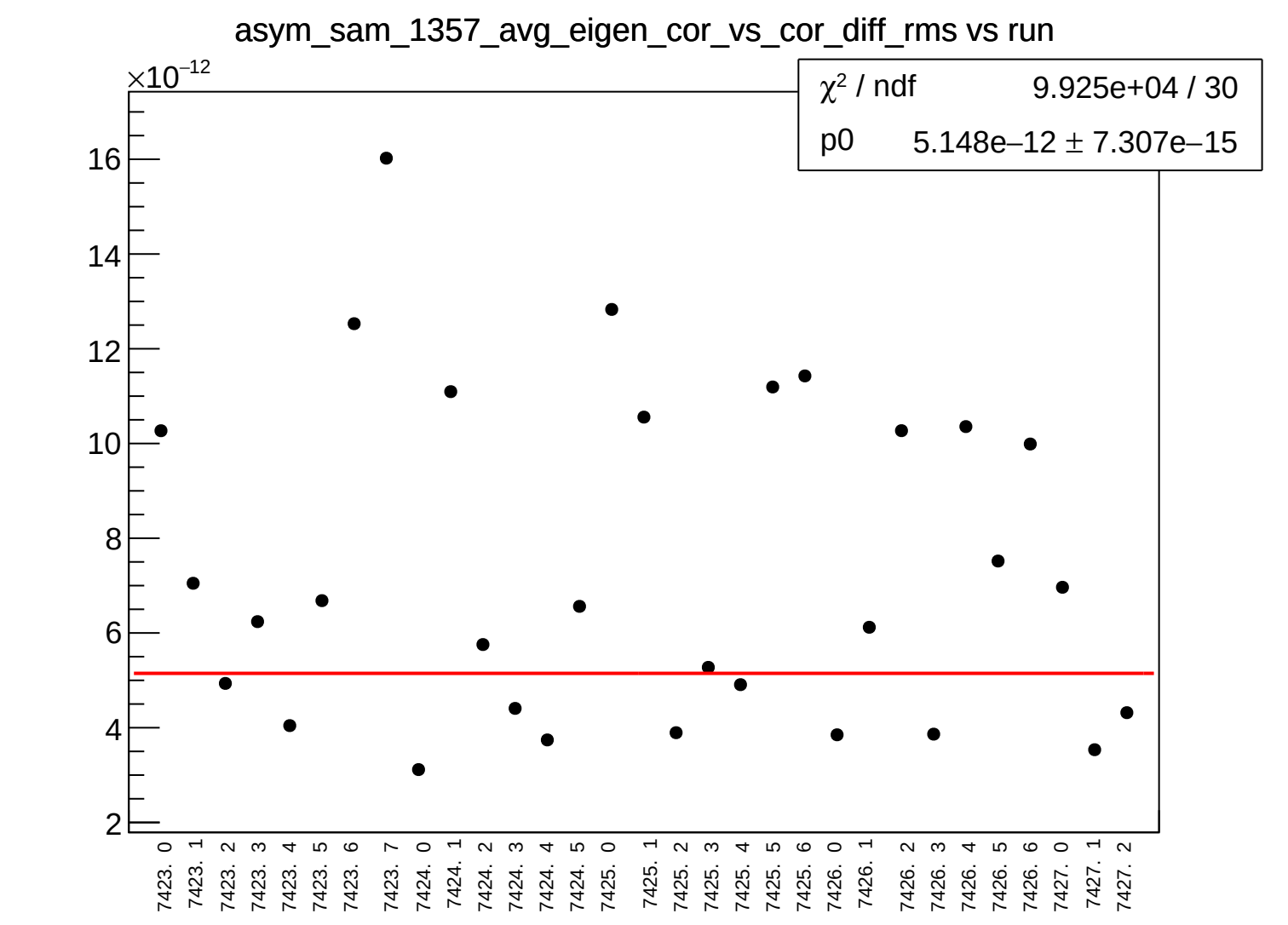

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.8 / 30
p0 −0.05262 ± 0.1002
pull
Entries 31
Mean −465.1
Std Dev 0
pull1D
Entries 31
Mean −0.001321
Std Dev 0.8191

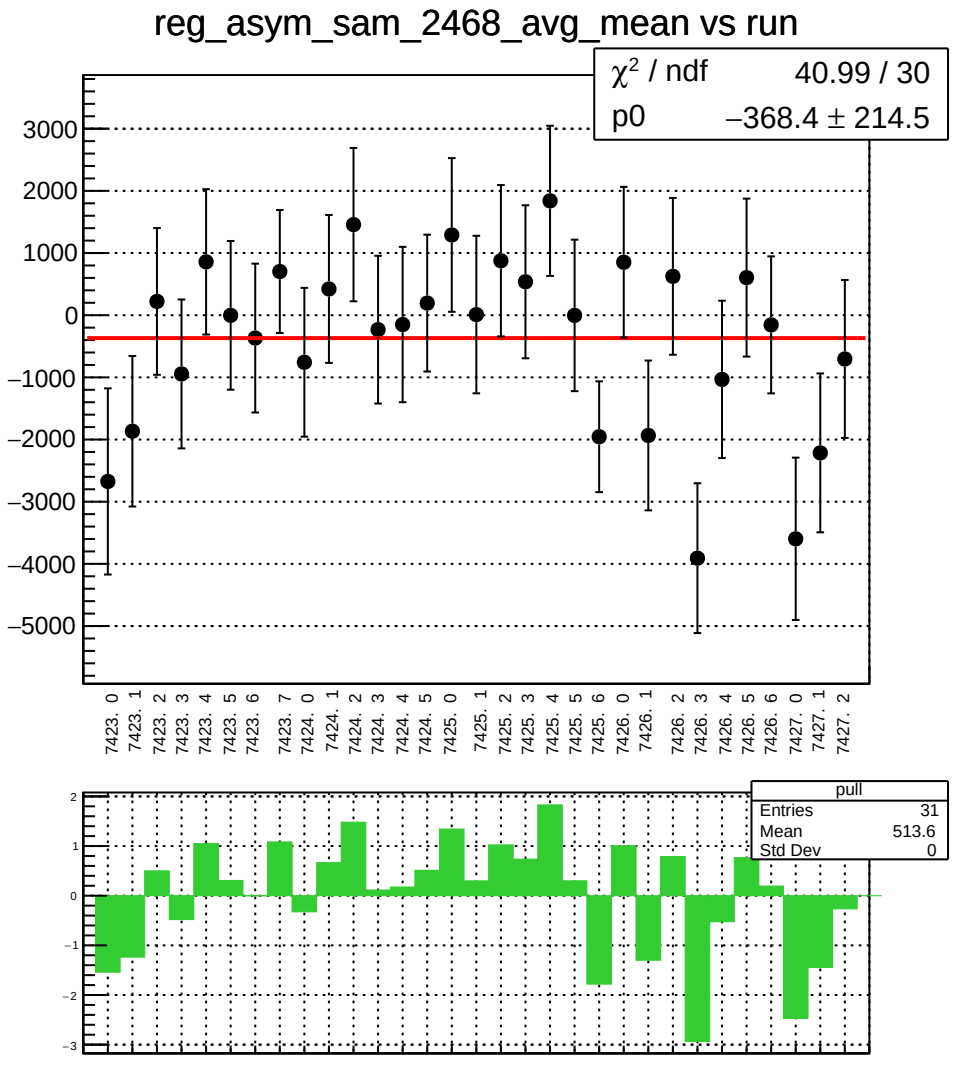

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9153 / 30
p0 54.27 ± 0.07088
90
85
80
75
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

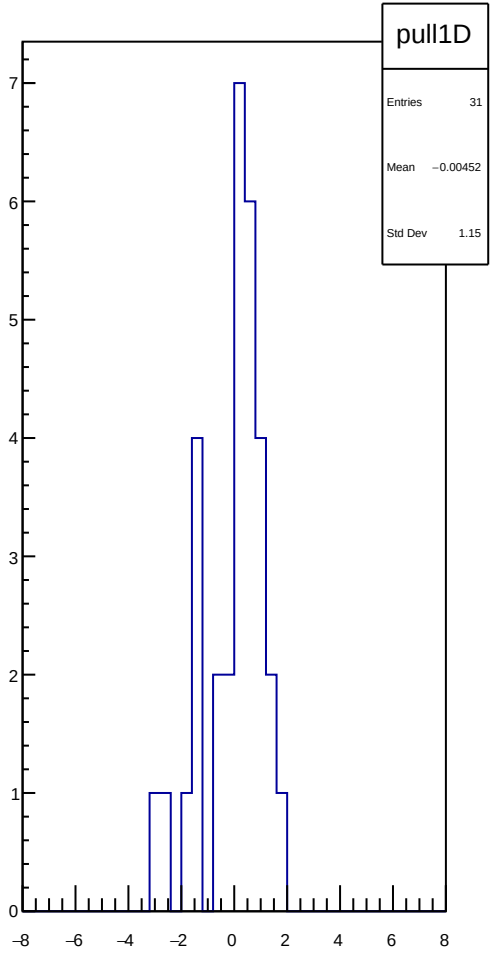

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.8 / 30
p0 −0.05262 ± 0.1002
pull
Entries 31
Mean −465.1
Std Dev 0
pull1D
Entries 31
Mean −0.001321
Std Dev 0.8191

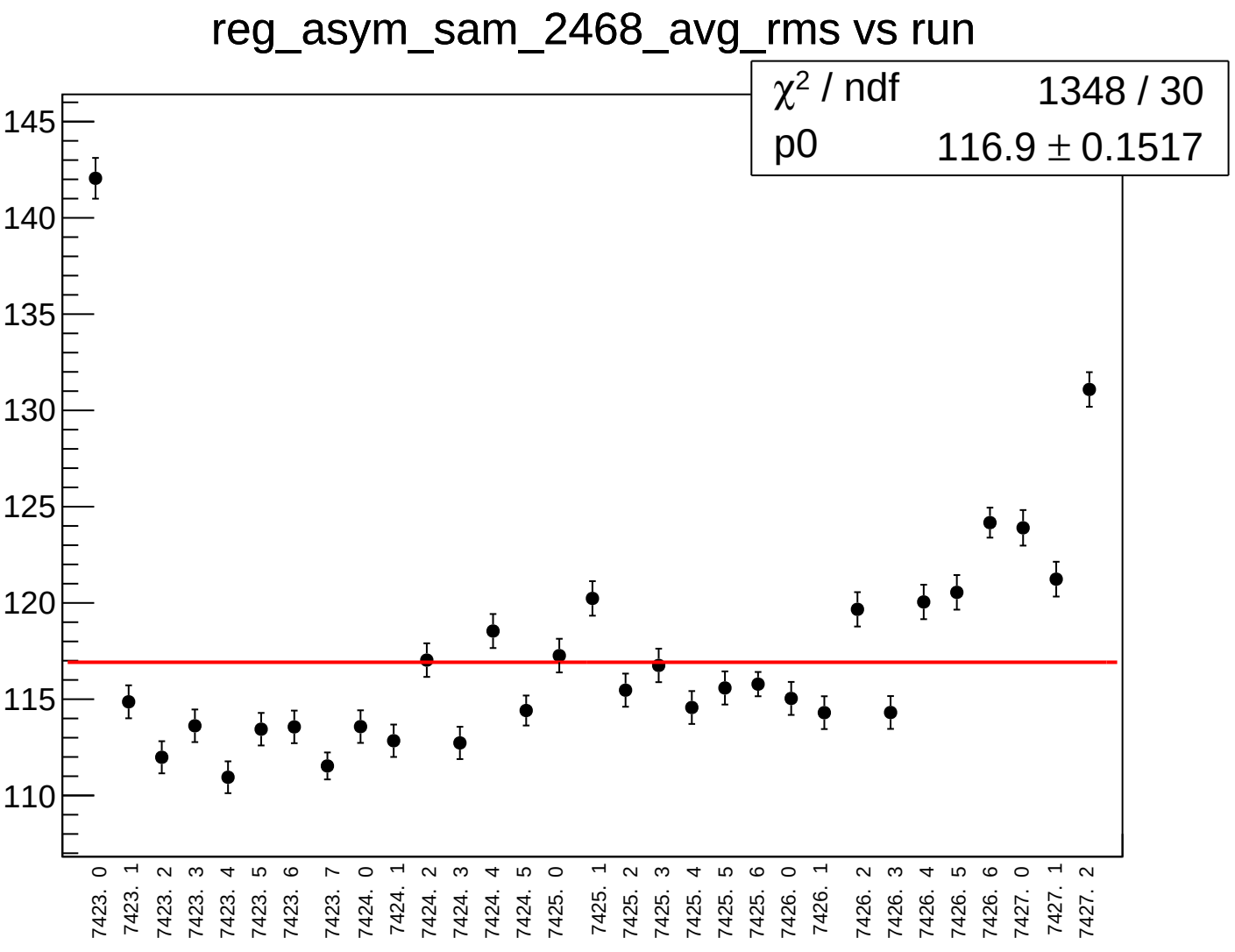

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9153 / 30
p0 54.27 ± 0.07088
90
85
80
75
70
65
60
55
50
45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

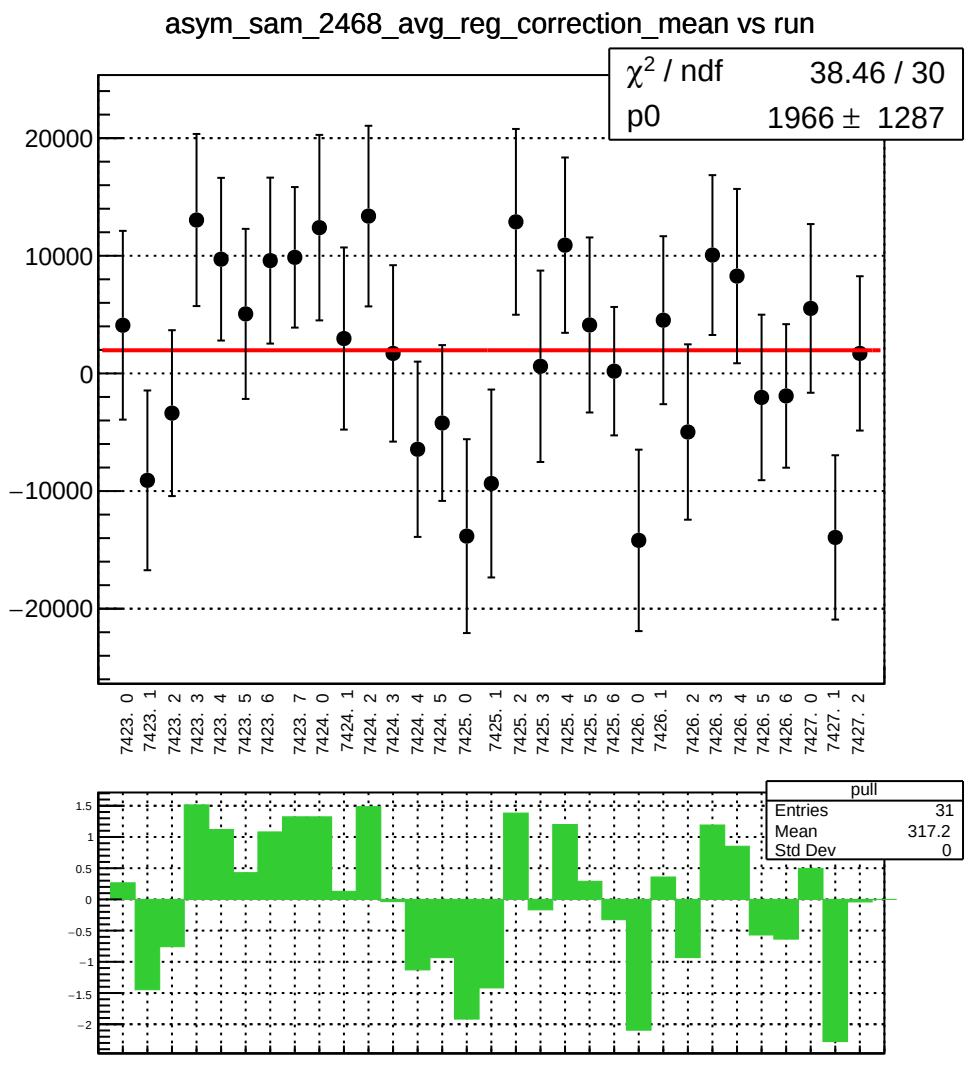

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 34.39 / 30
p0 1.303e−14 ± 1.033e−14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −0.7326
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.0759
Std Dev 1.051
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

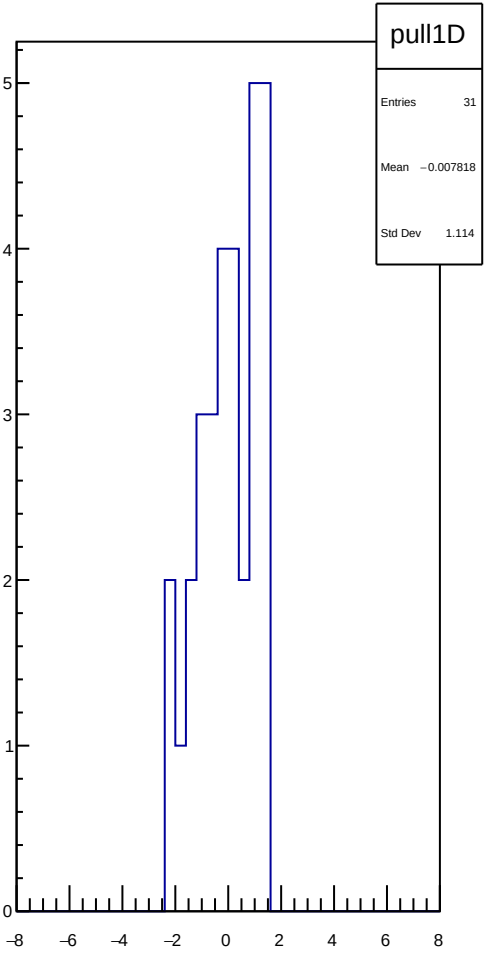

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.925e+04 / 30
p0 5.148e−12 ± 7.307e−15
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

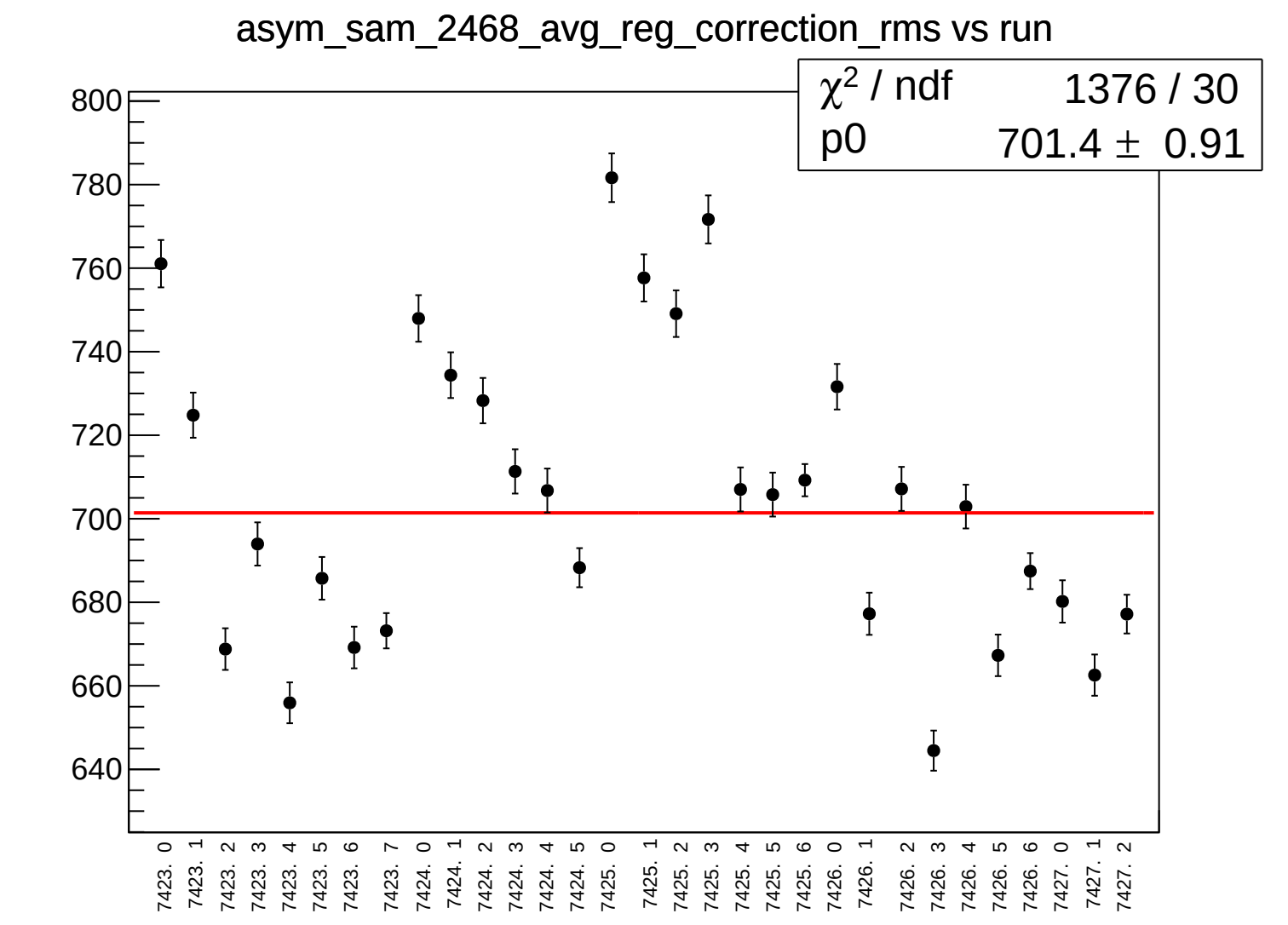

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 40.99 / 30
p0 −368.4 ± 214.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 513.6
Std Dev 0
2
1
0
−1
−2
−3

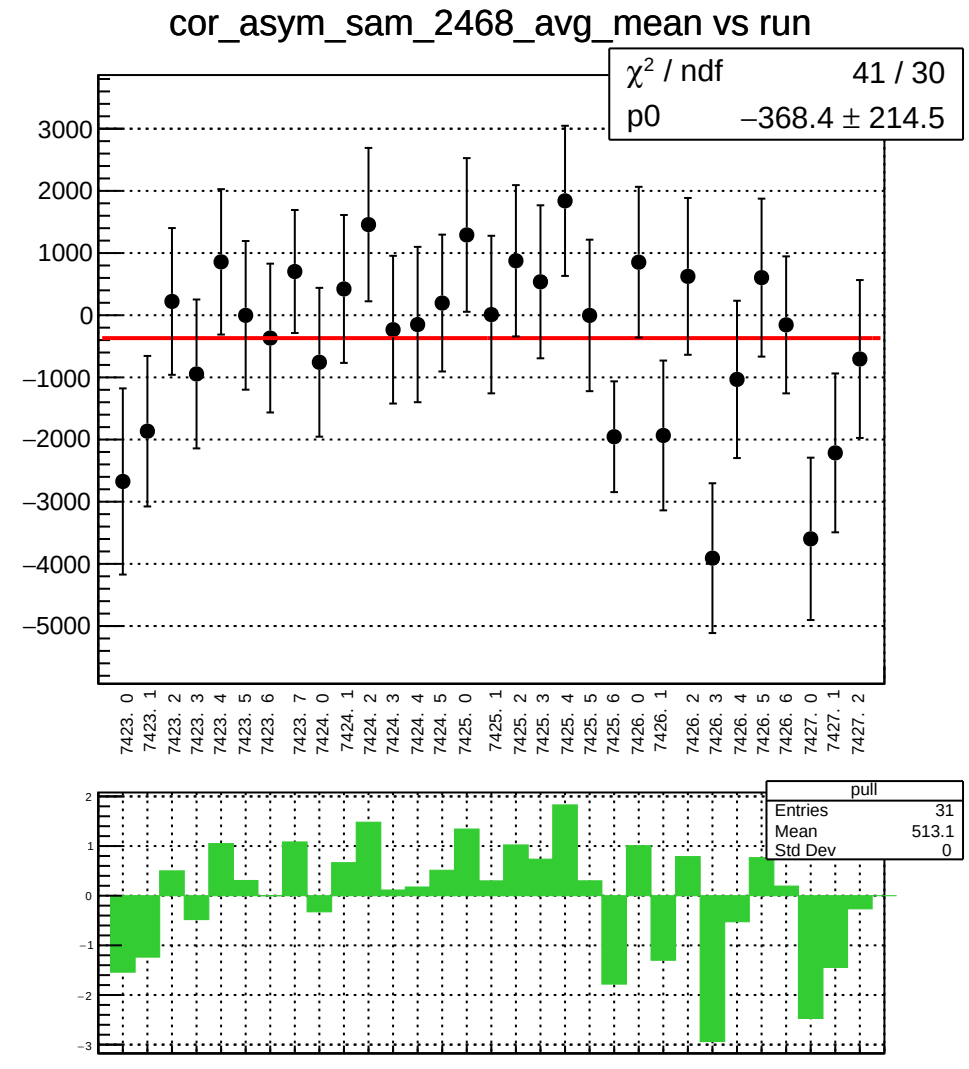

pull1D
Entries 31
Mean −0.00452
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

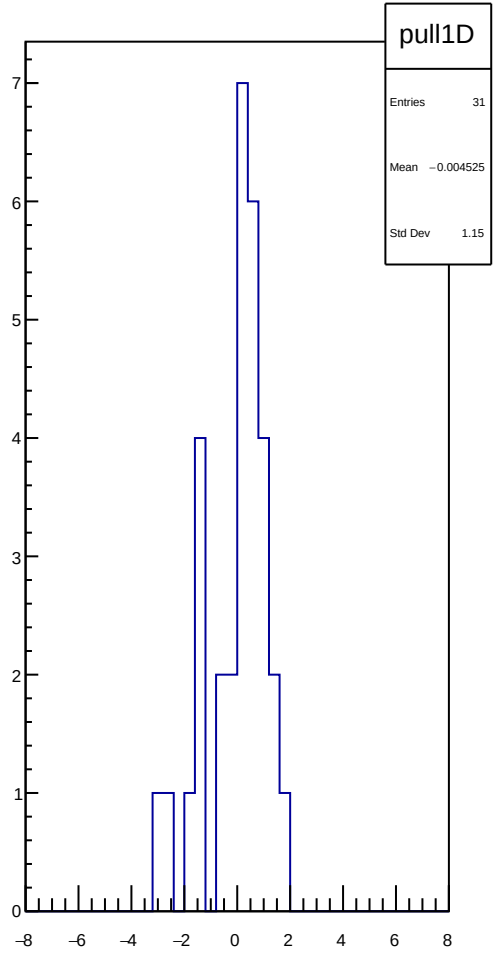

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1348 / 30
p0 116.9 ± 0.1517
145
140
135
130
125
120
115
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

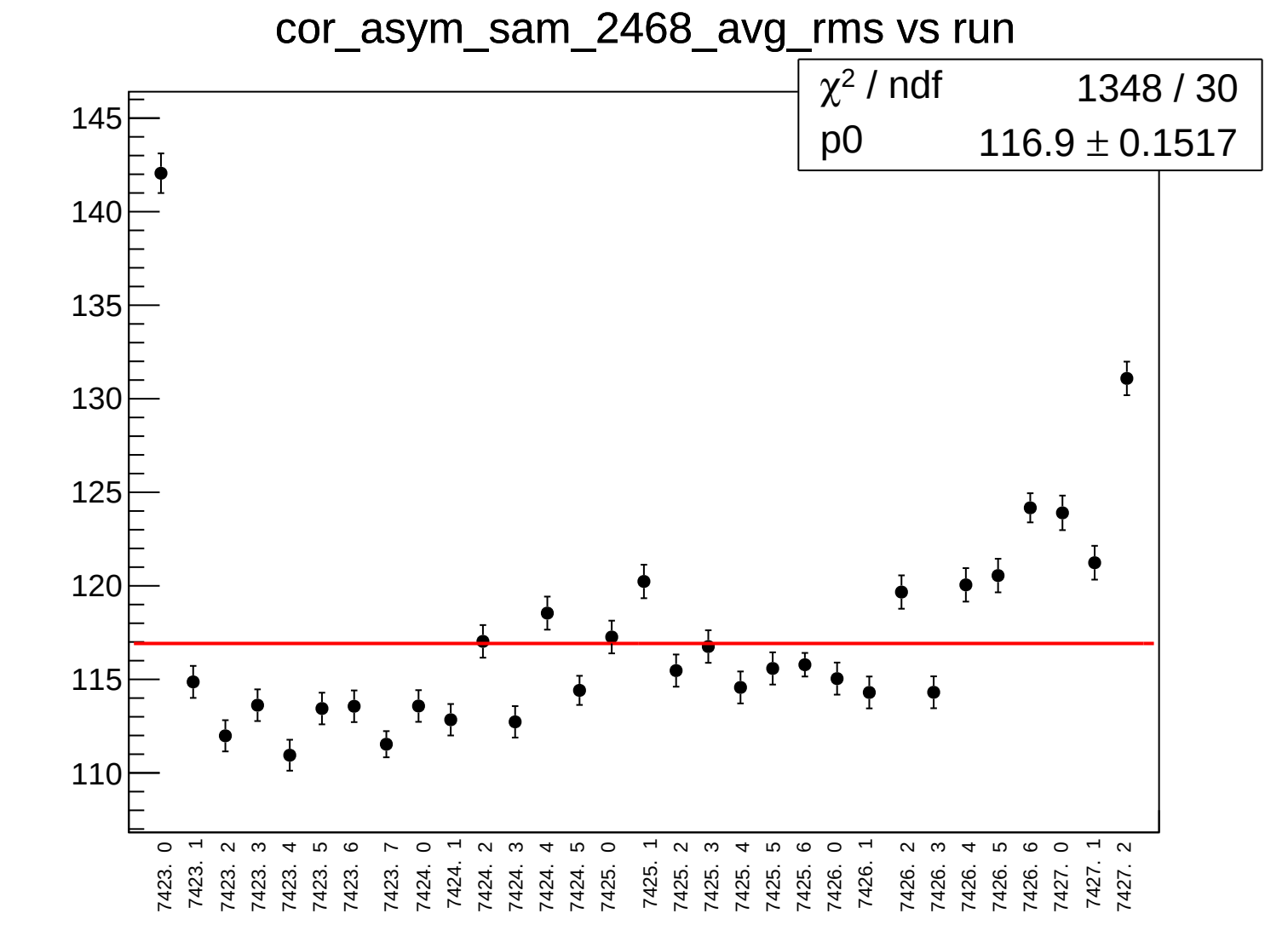

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 38.46 / 30
p0 1966 ± 1287
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 317.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

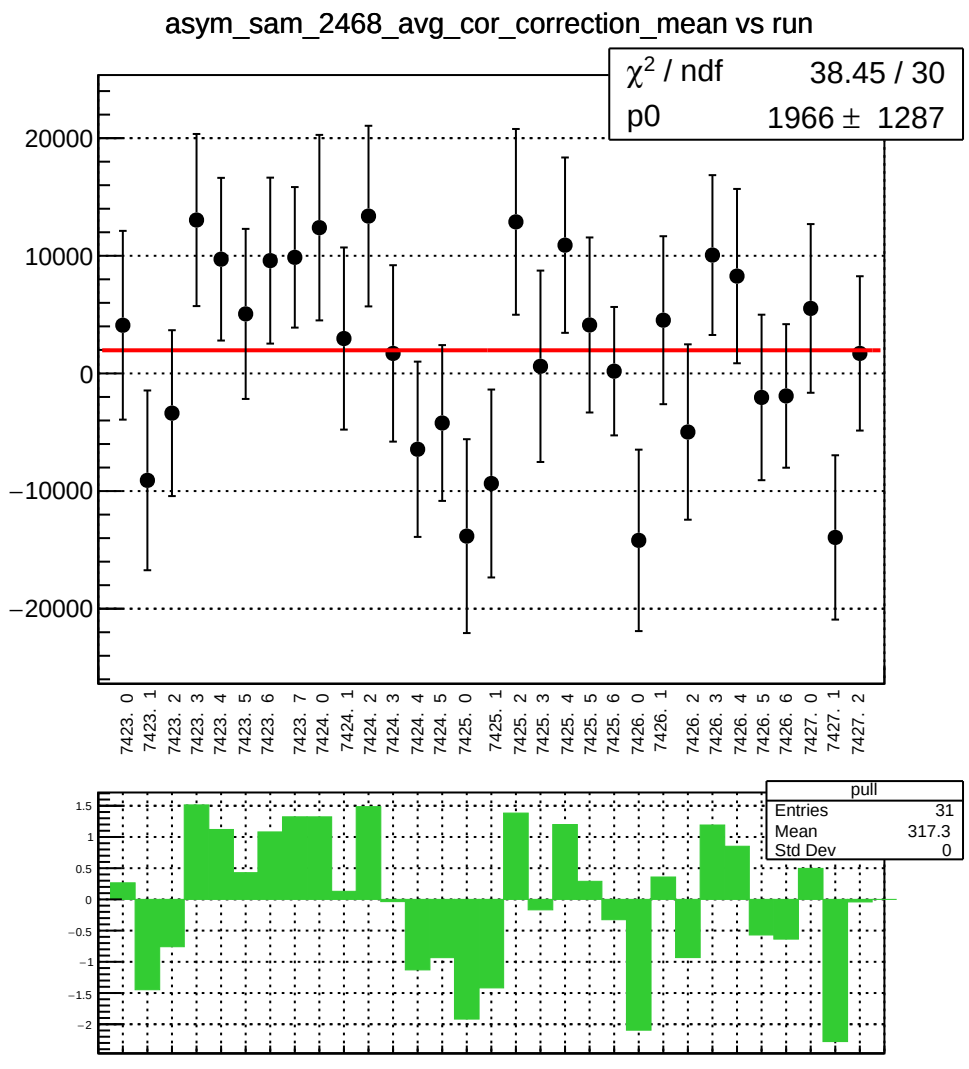

pull1D
Entries 31
Mean −0.007818
Std Dev 1.114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

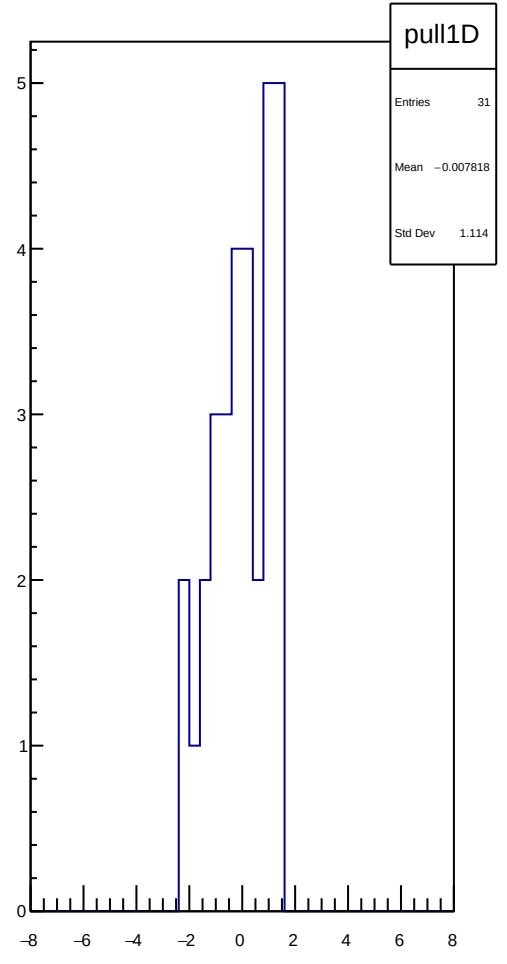

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1376 / 30
p0 701.4 ± 0.91
800
780
760
740
720
700
680
660
640
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

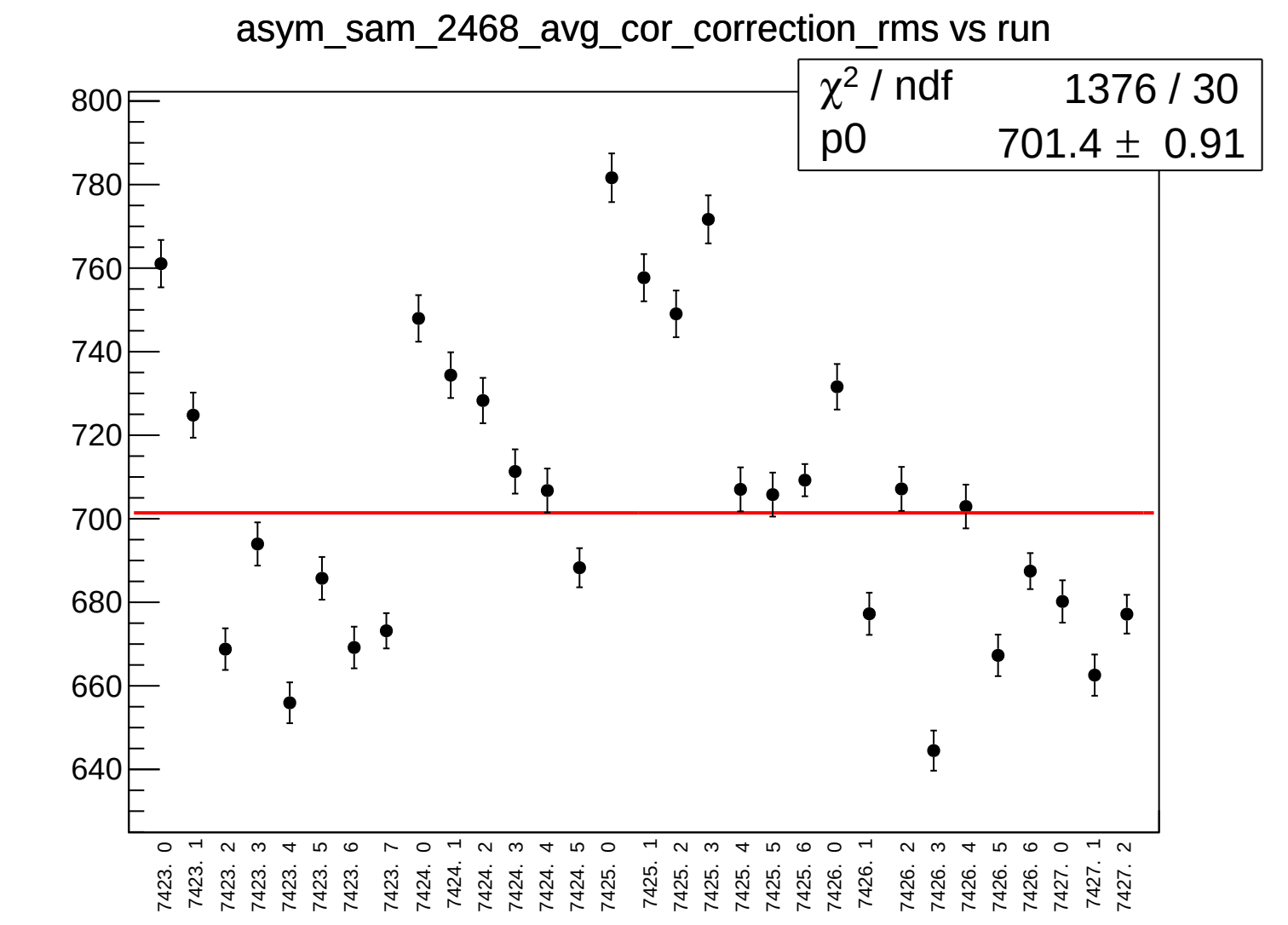

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 41 / 30
p0 −368.4 ± 214.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 513.1
Std Dev 0
2
1
0
−1
−2
−3

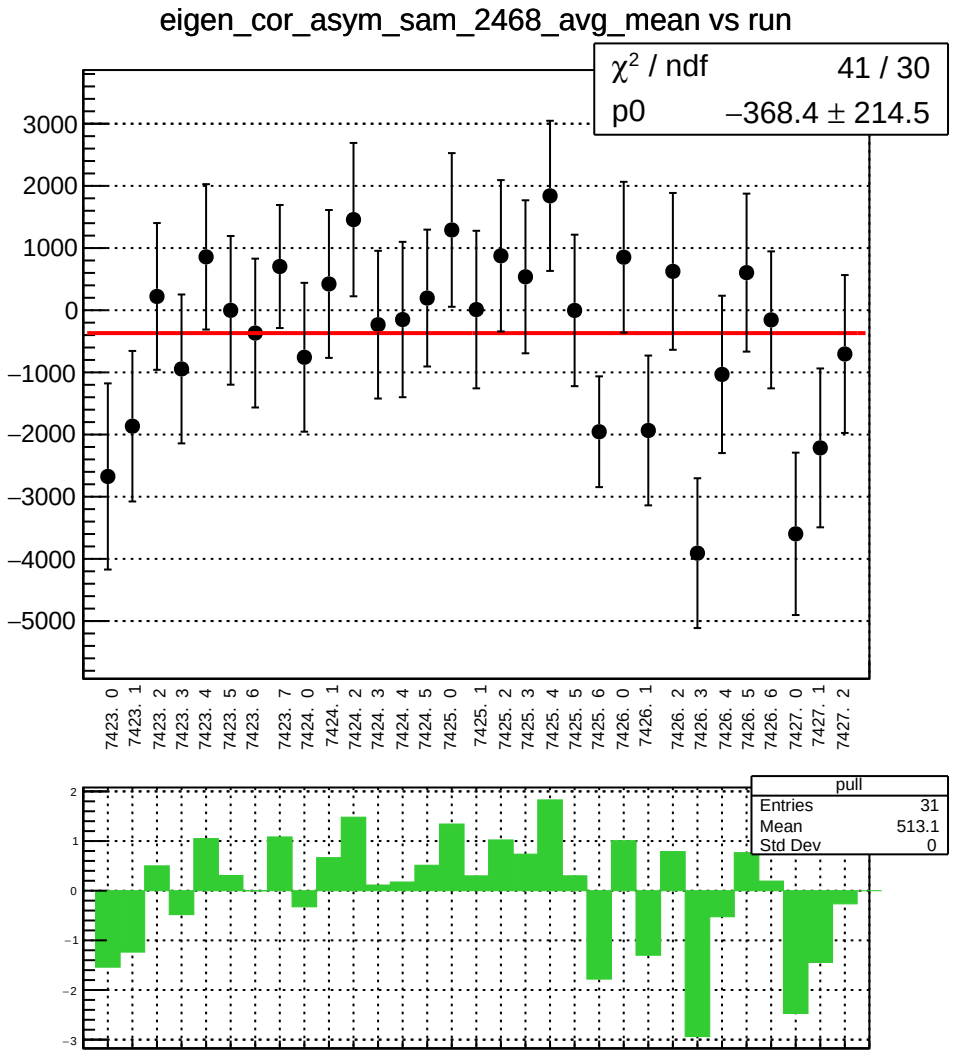

pull1D
Entries 31
Mean −0.004525
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

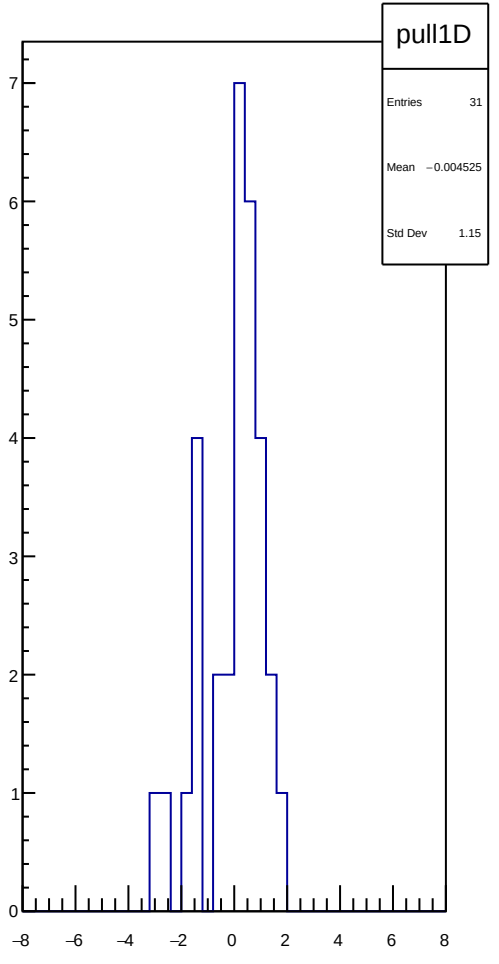

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1348 / 30
p0 116.9 ± 0.1517
145
140
135
130
125
120
115
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

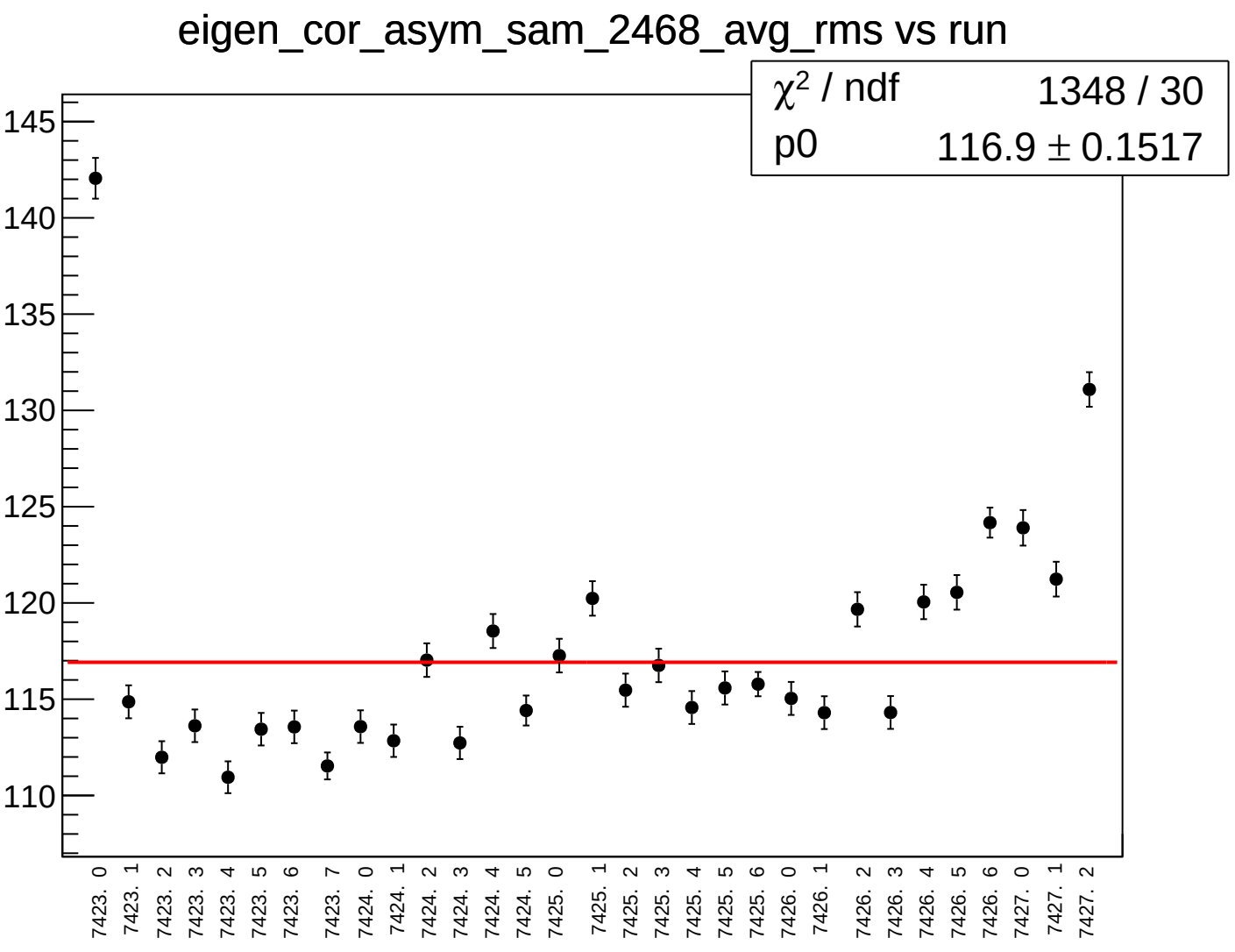

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 38.45 / 30
p0 1966 ± 1287
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 317.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

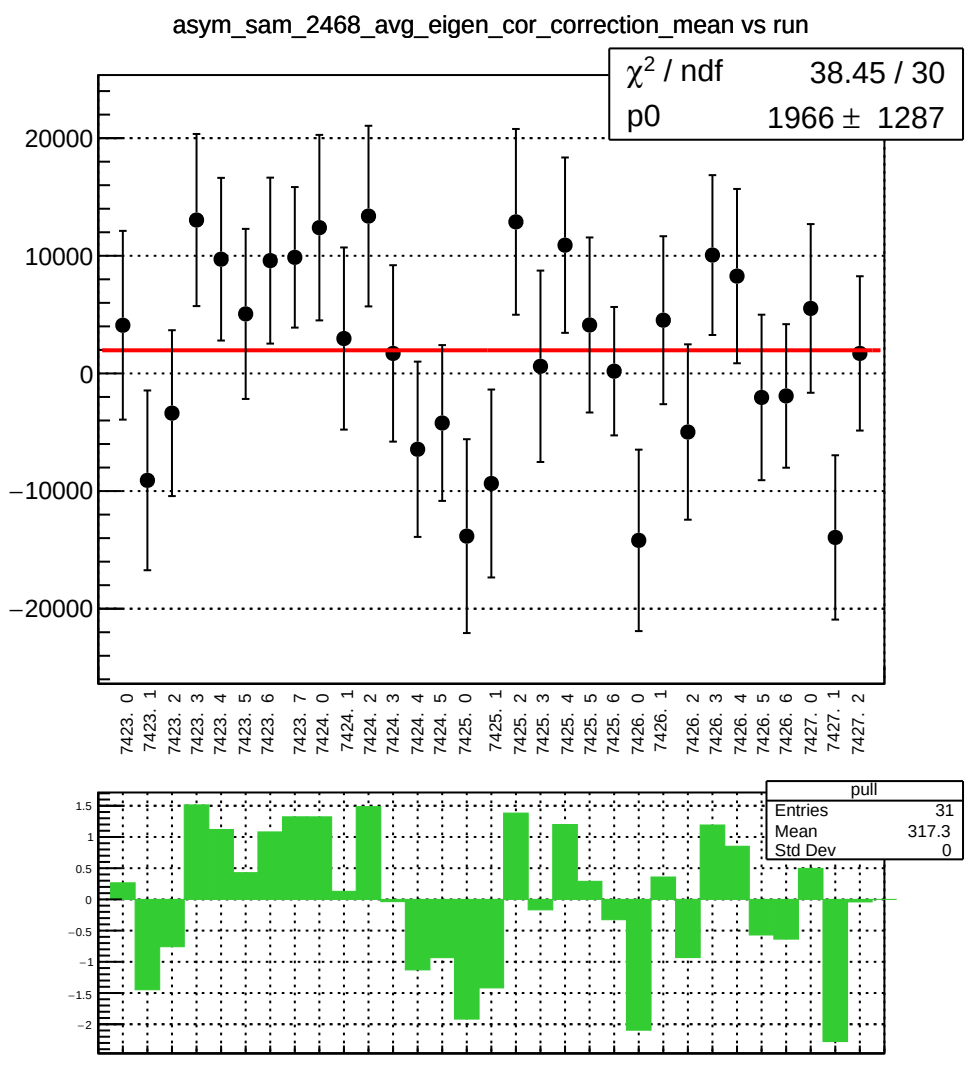

pull1D
Entries 31
Mean −0.007818
Std Dev 1.114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

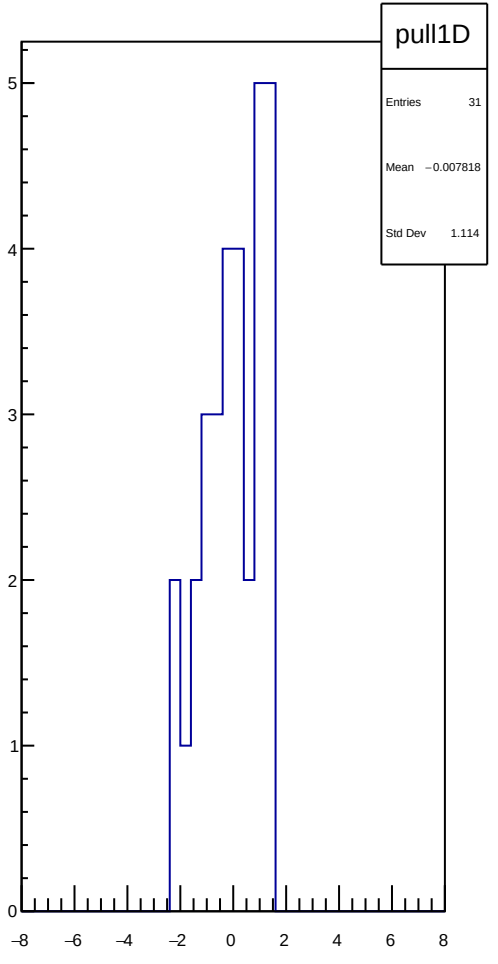

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1376 / 30
p0 701.4 ± 0.91
800
780
760
740
720
700
680
660
640
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

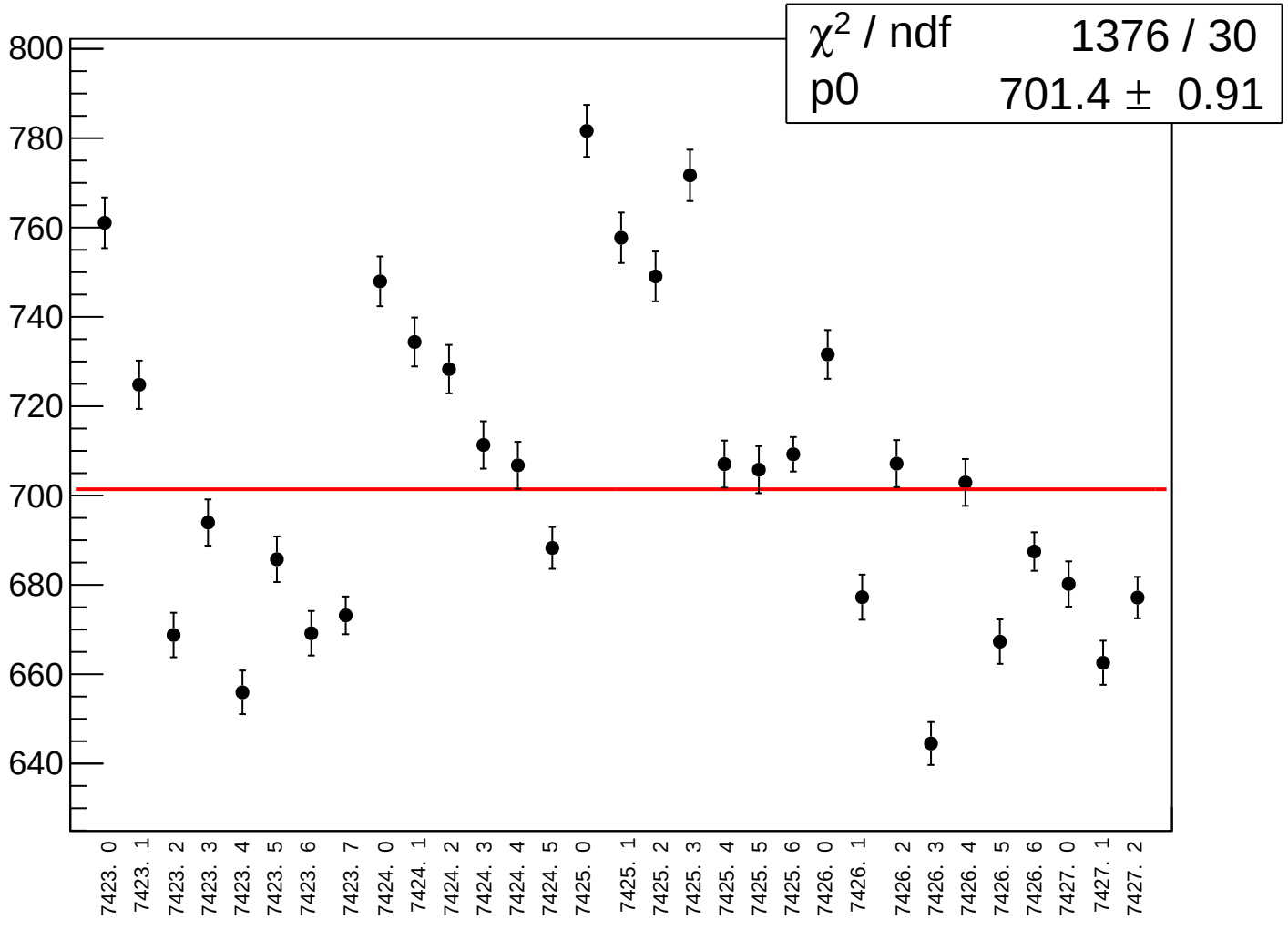

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 41 / 30
p0 −368.4 ± 214.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 513.1
Std Dev 0
2
1
0
−1
−2
−3

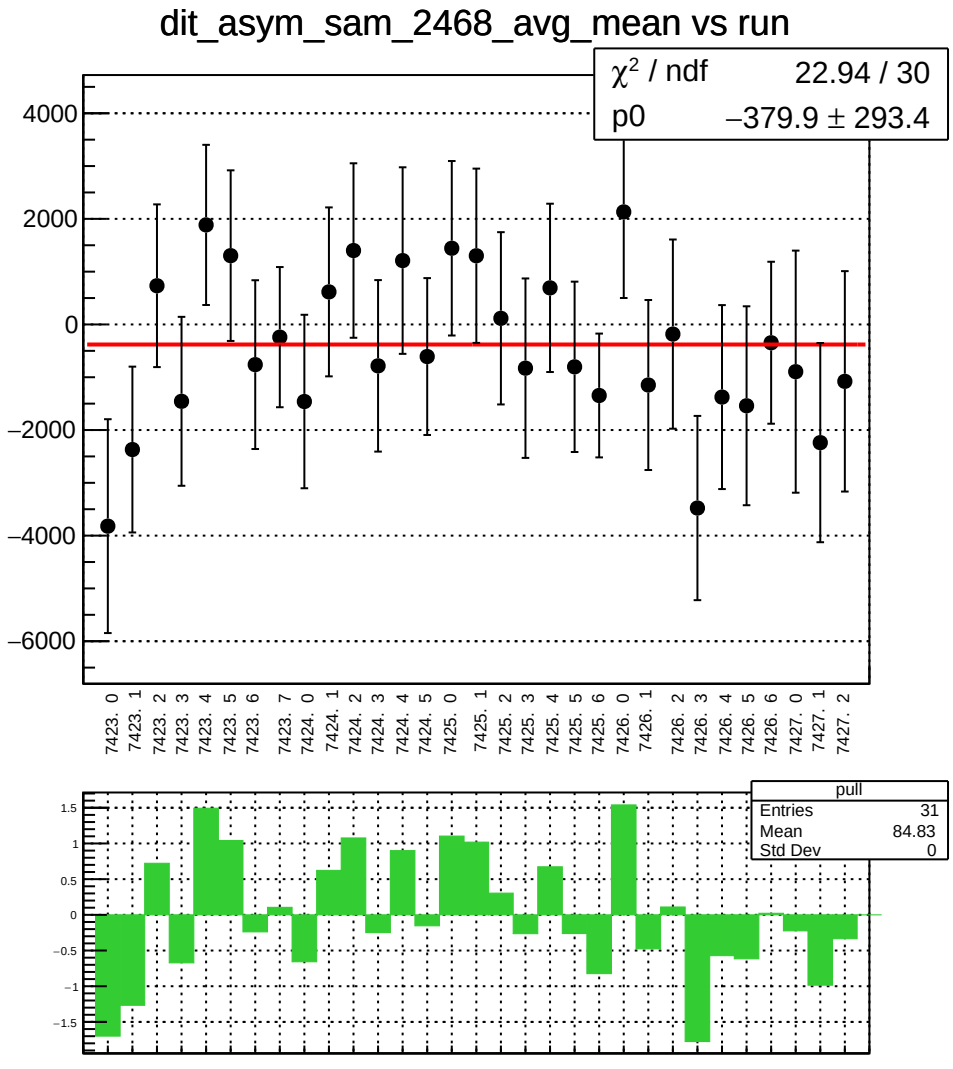

pull1D
Entries 31
Mean −0.004525
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

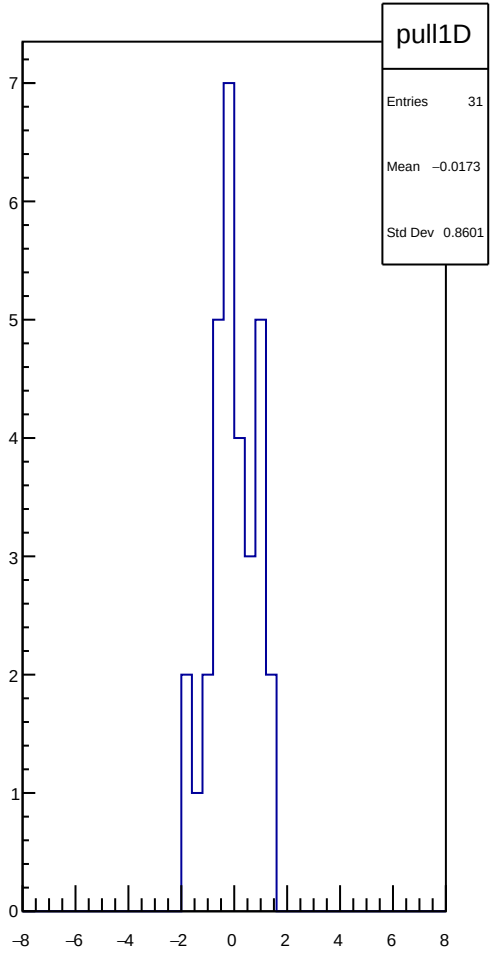

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1348 / 30
p0 116.9 ± 0.1517
145
140
135
130
125
120
115
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

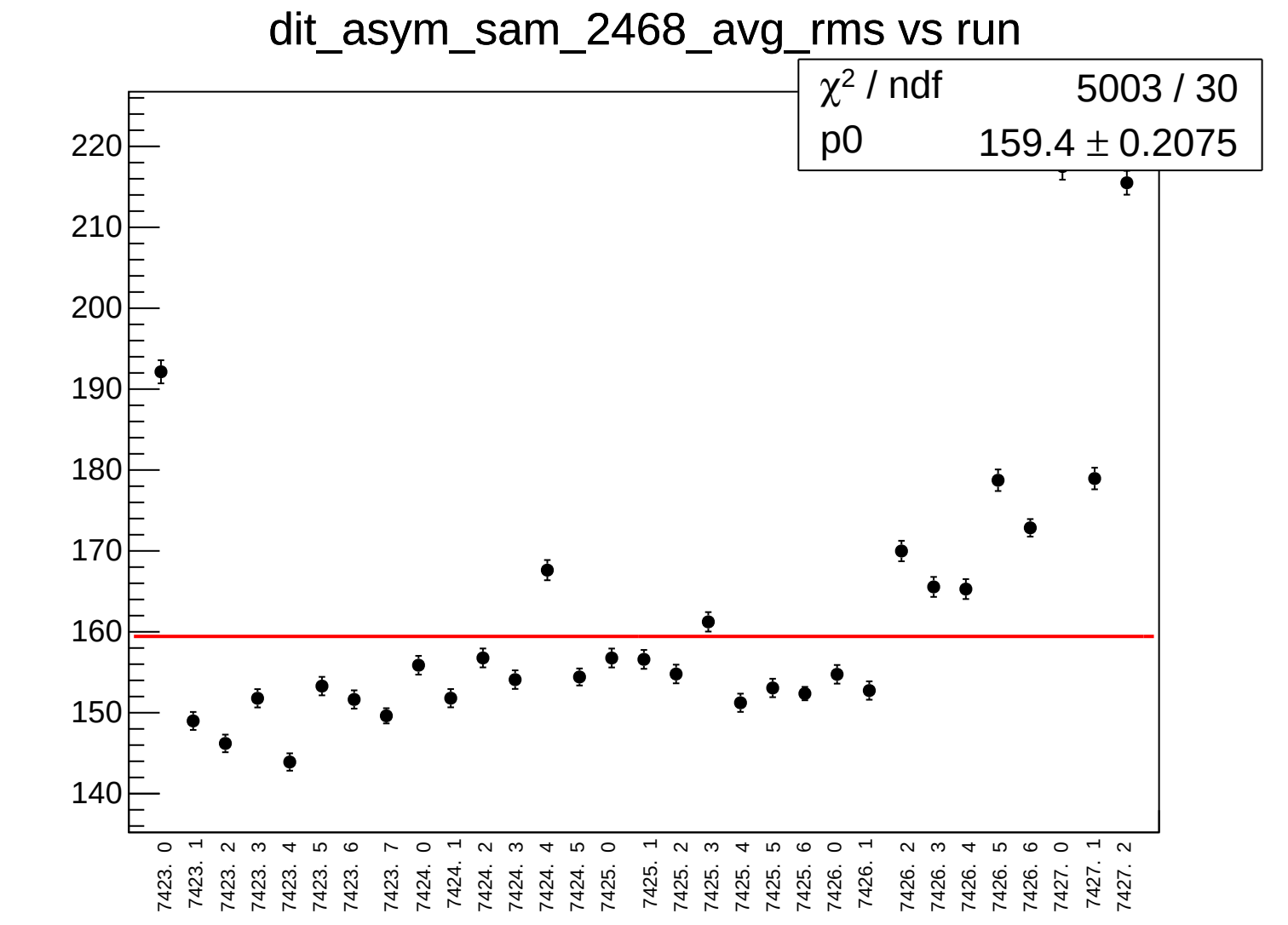

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 38.45 / 30
p0 1966 ± 1287
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 317.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

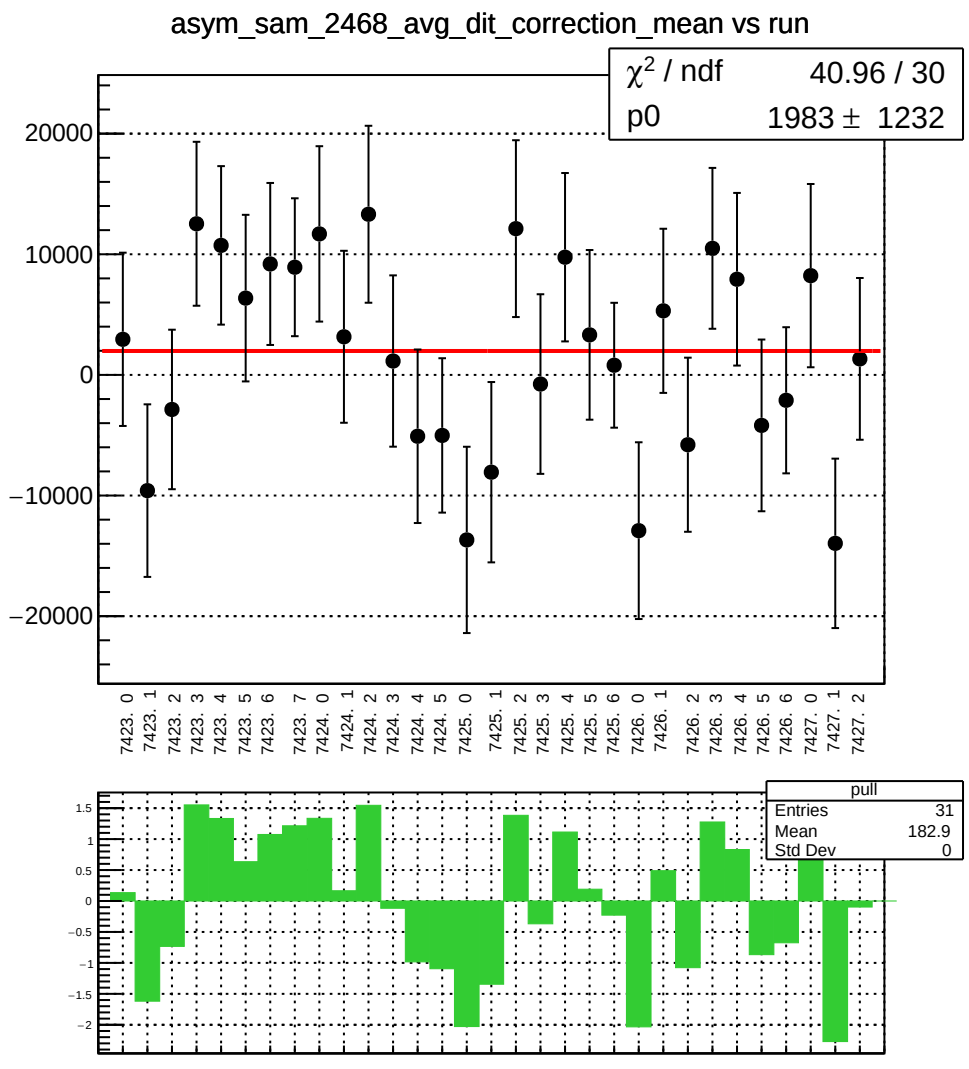

pull1D
Entries 31
Mean −0.007818
Std Dev 1.114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

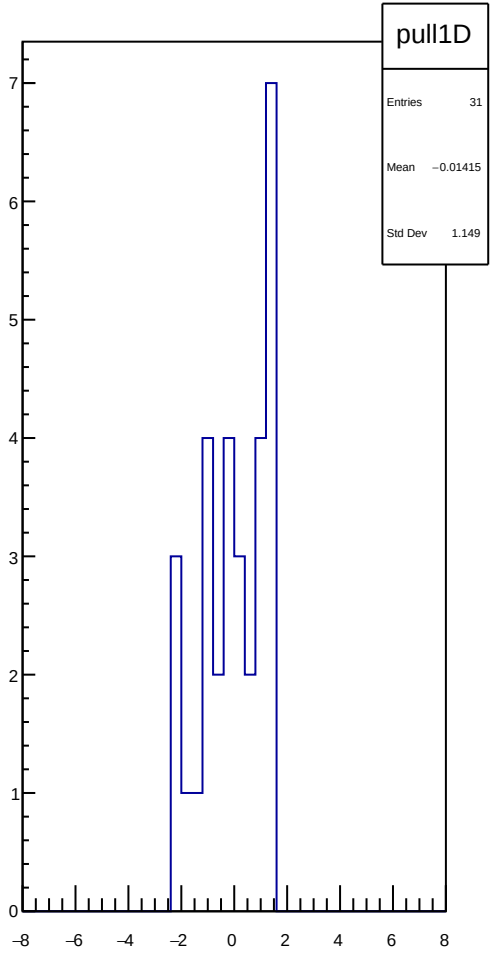

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1376 / 30
p0 701.4 ± 0.91
800
780
760
740
720
700
680
660
640
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

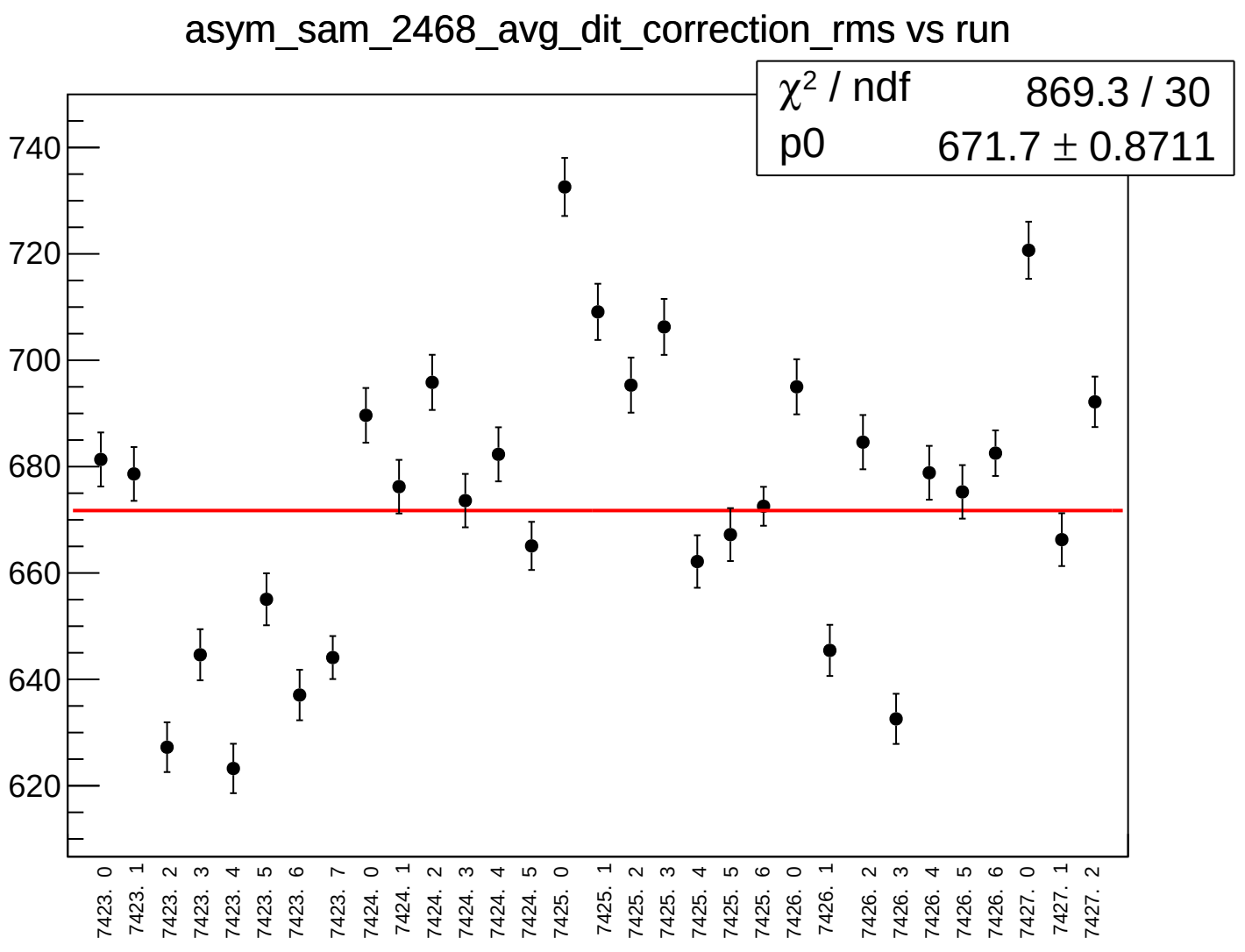

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 22.94 / 30
p0 −379.9 ± 293.4
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 84.83
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

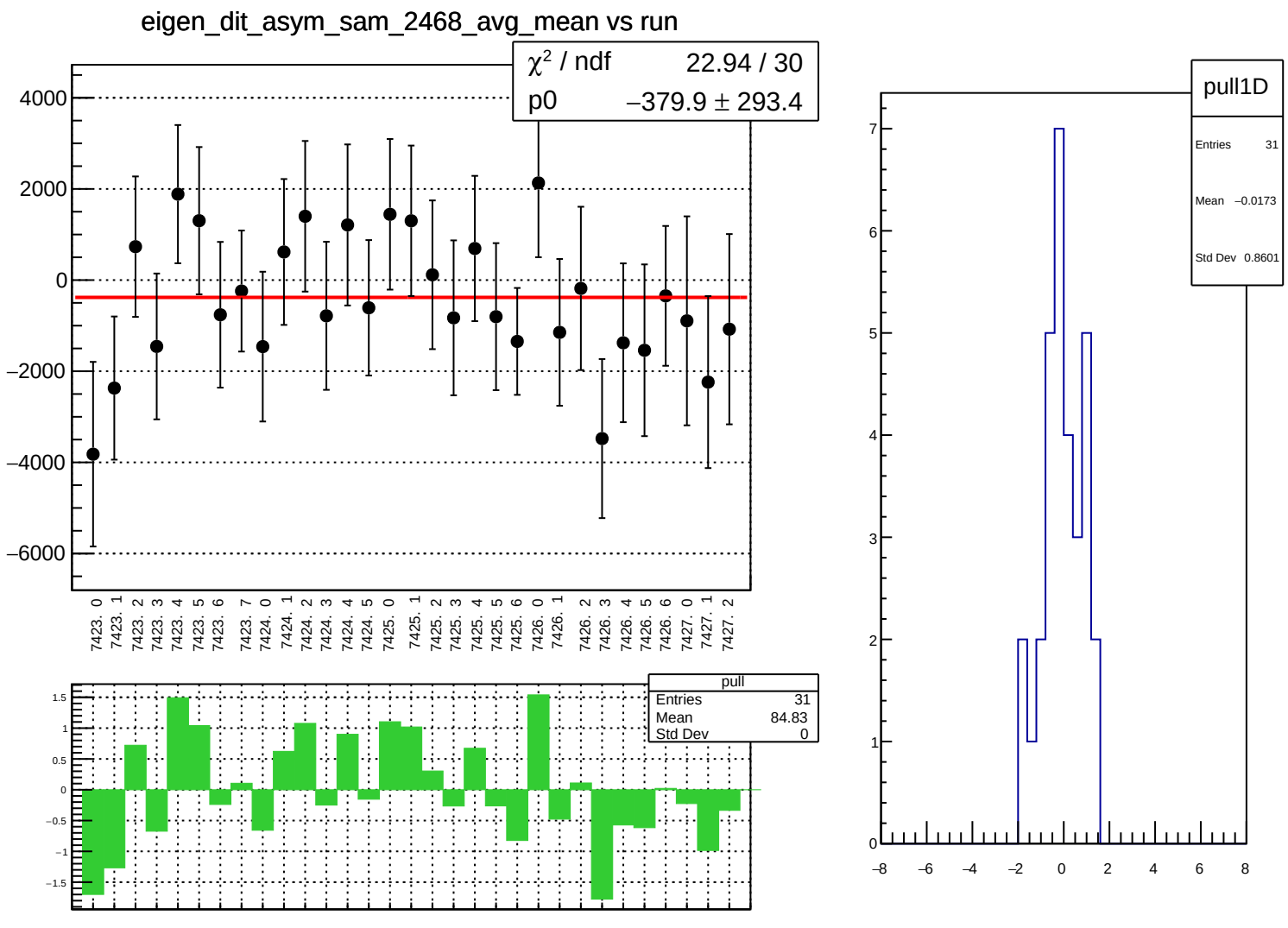

pull1D
Entries 31
Mean −0.0173
Std Dev 0.8601
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

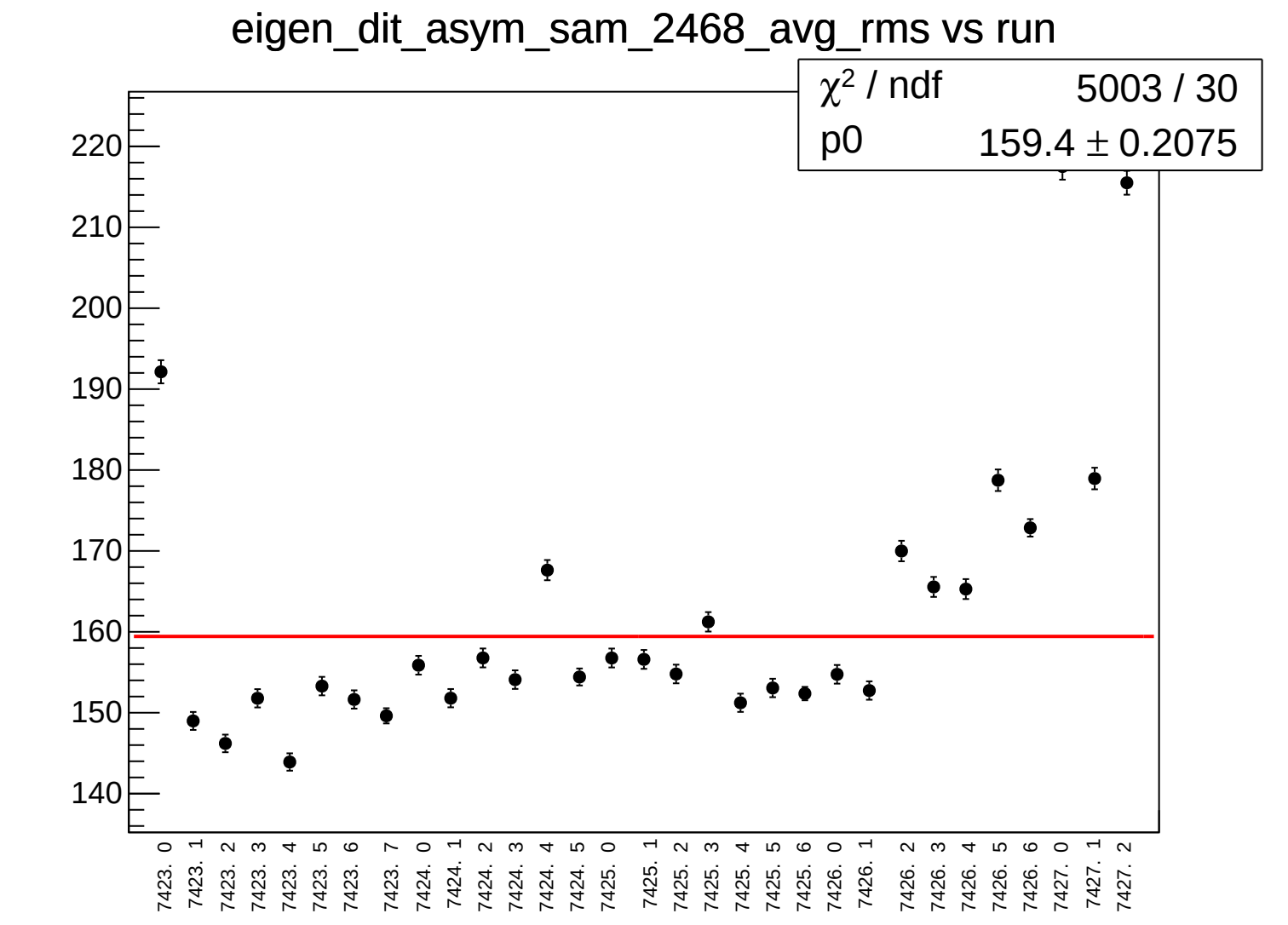

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 5003 / 30
p0 159.4 ± 0.2075
220
210
200
190
180
170
160
150
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

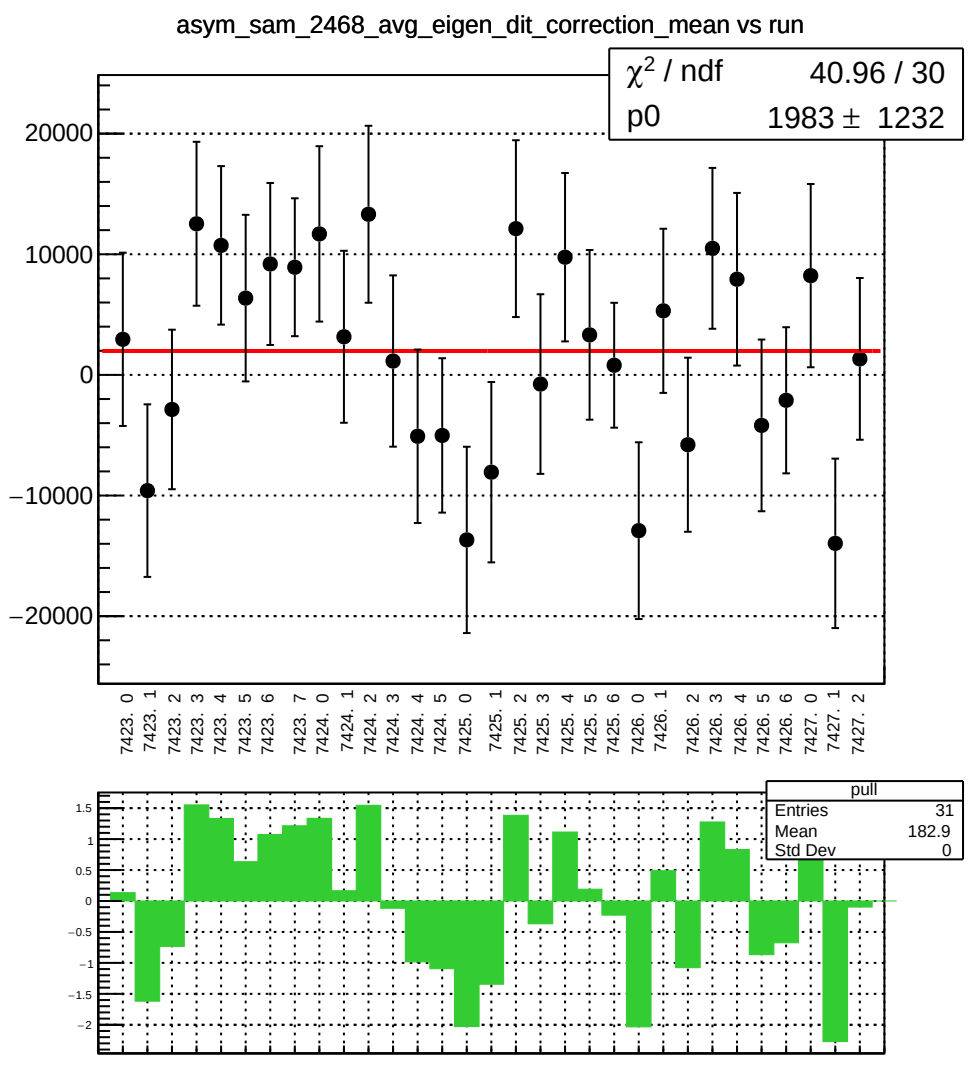

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 40.96 / 30
p0 1983 ± 1232
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 182.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

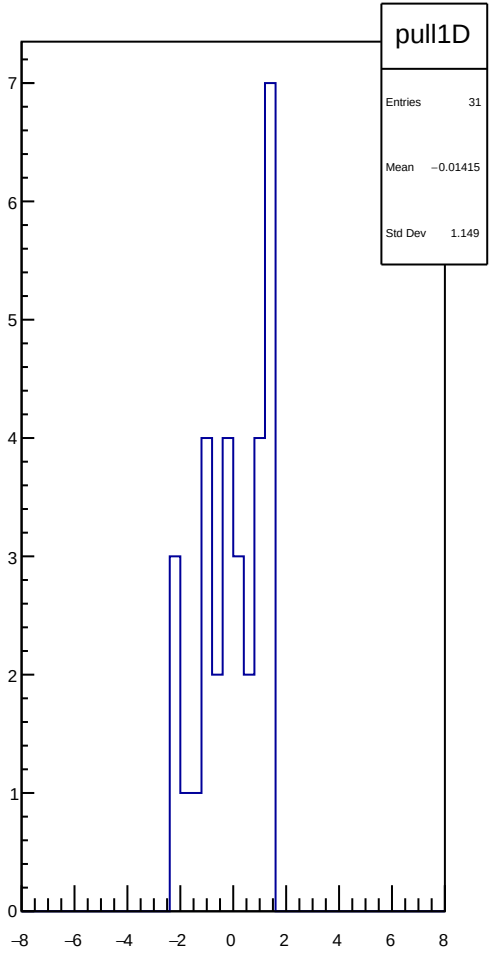

pull1D
Entries 31
Mean −0.01415
Std Dev 1.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

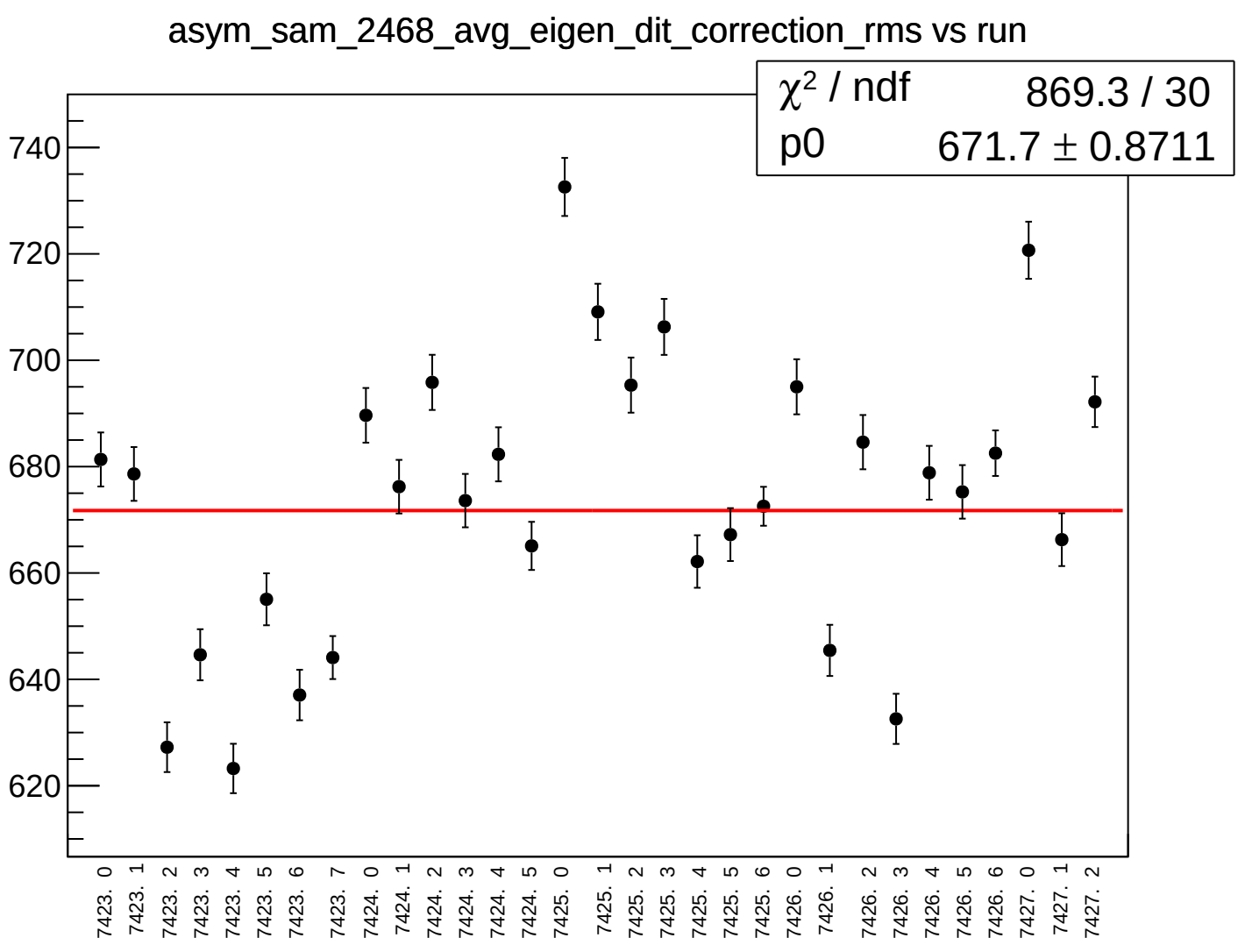

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 869.3 / 30
p0 671.7 ± 0.8711
740
720
700
680
660
640
620
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

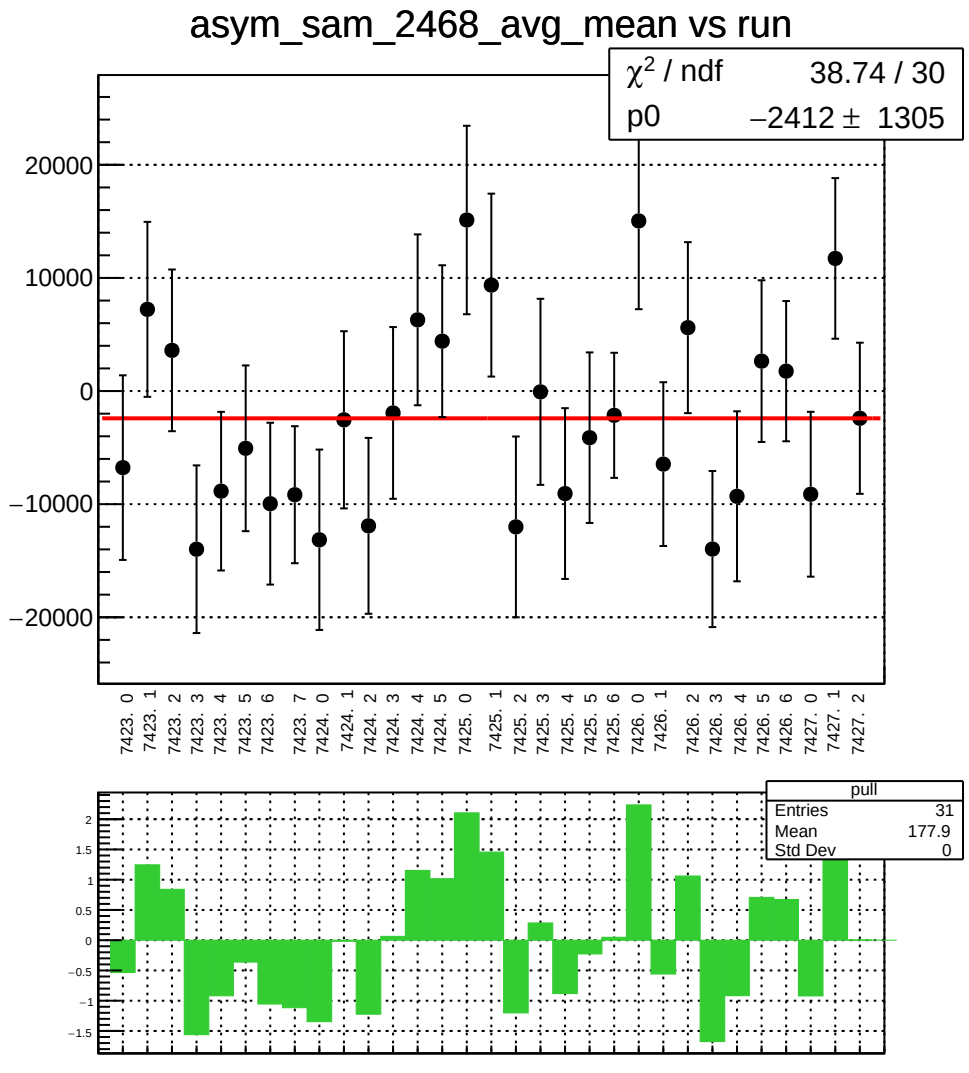

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 22.94 / 30
p0 −379.9 ± 293.4
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 84.83
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.0173
Std Dev 0.8601
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

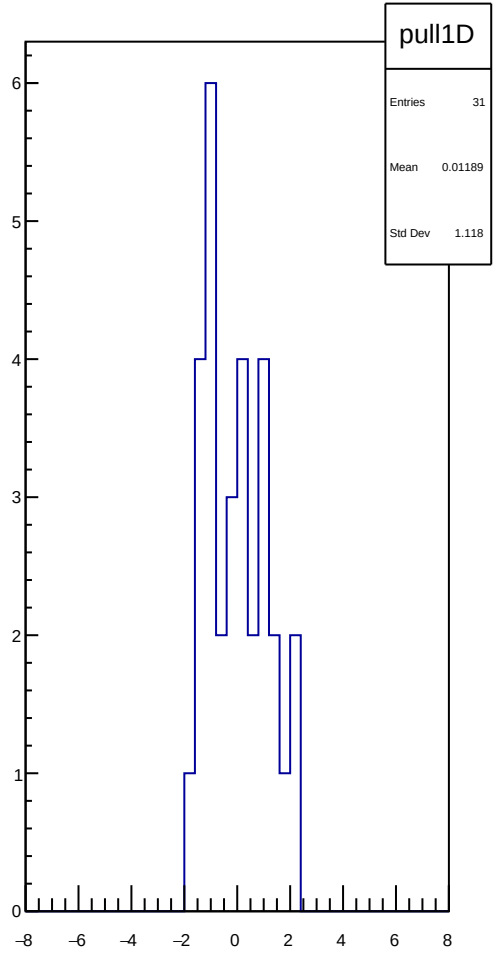

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 5003 / 30
p0 159.4 ± 0.2075
220
210
200
190
180
170
160
150
140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

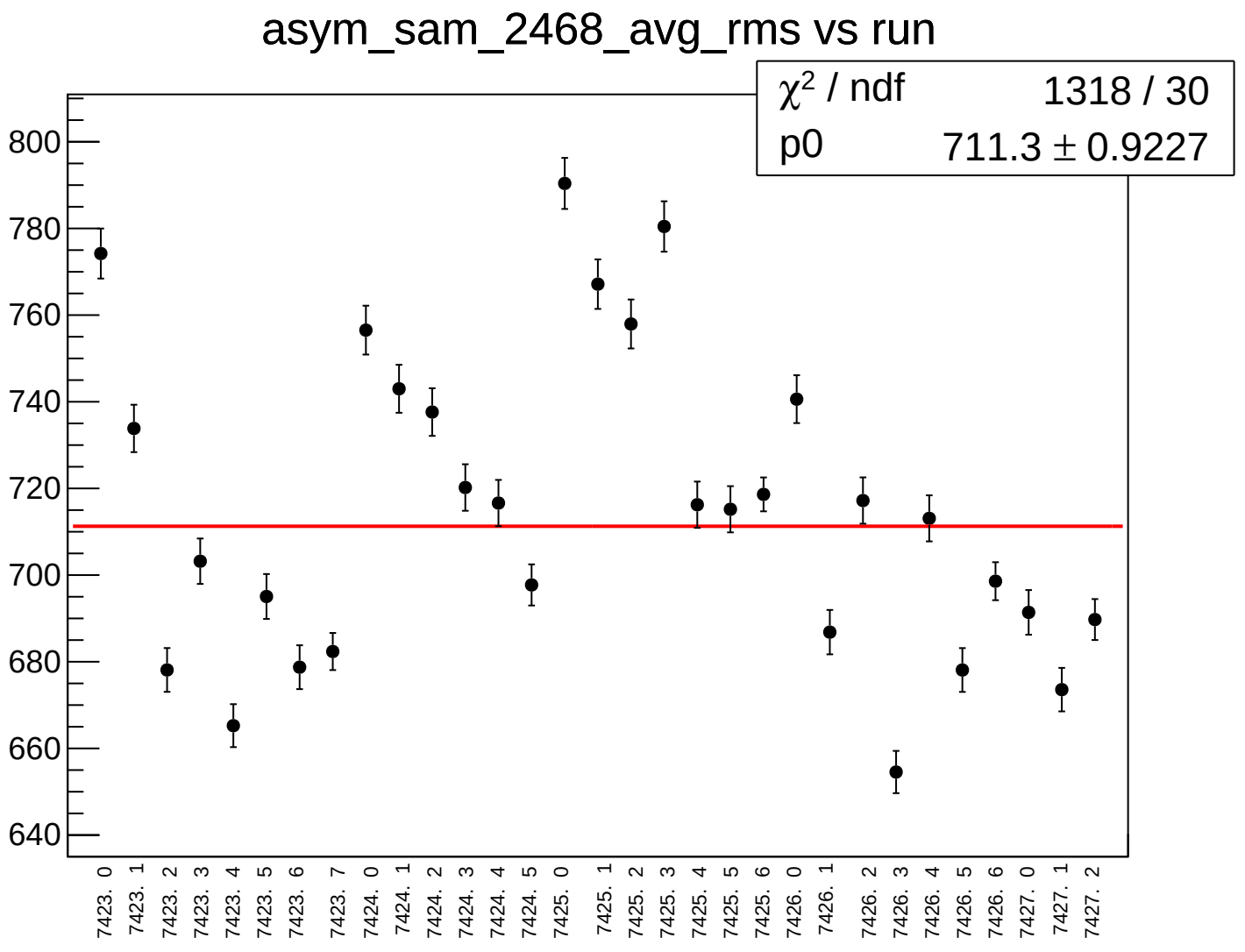

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.96 / 30
p0 1983 ± 1232
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 182.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

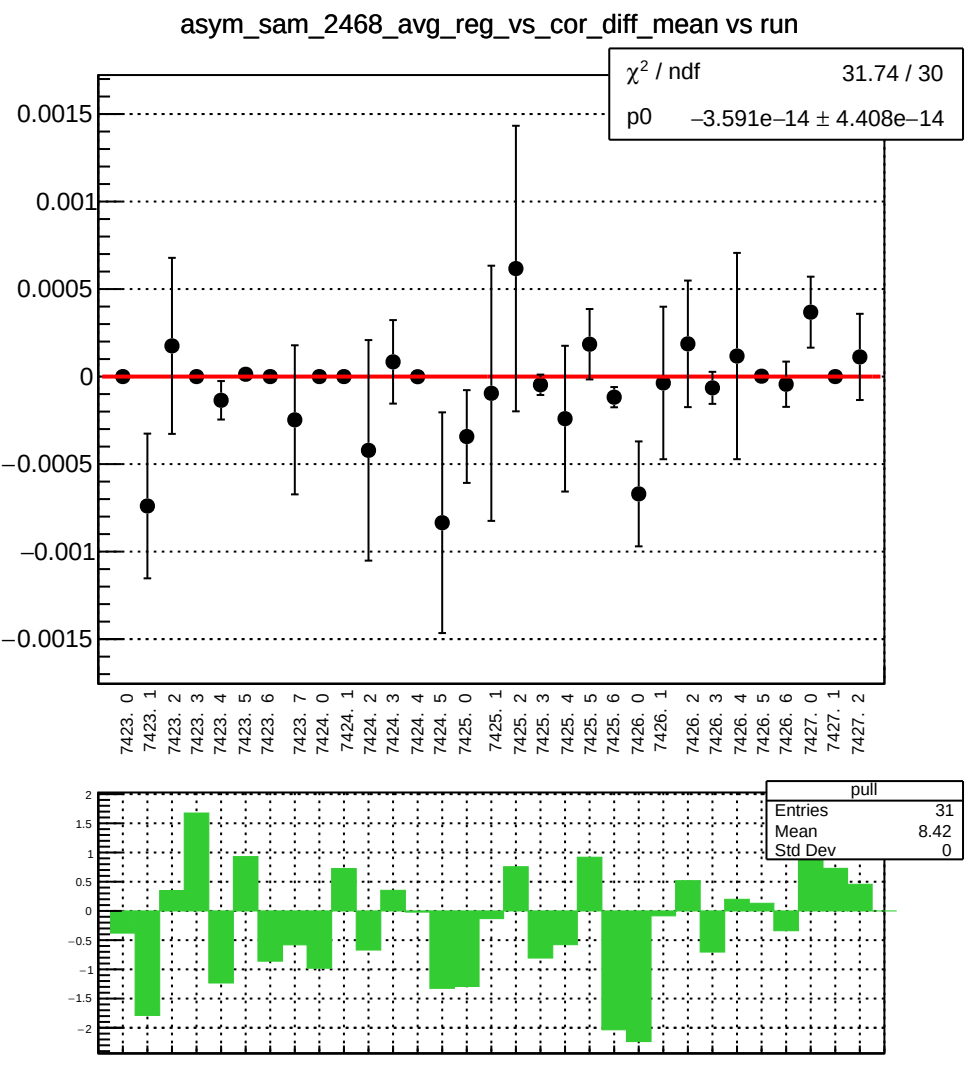

pull1D
Entries 31
Mean −0.01415
Std Dev 1.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

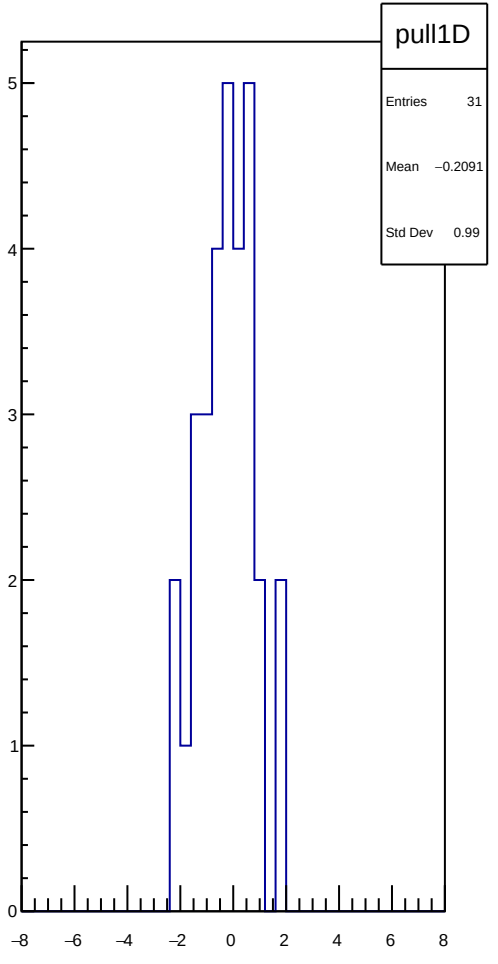

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 869.3 / 30
p0 671.7 ± 0.8711
740
720
700
680
660
640
620
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

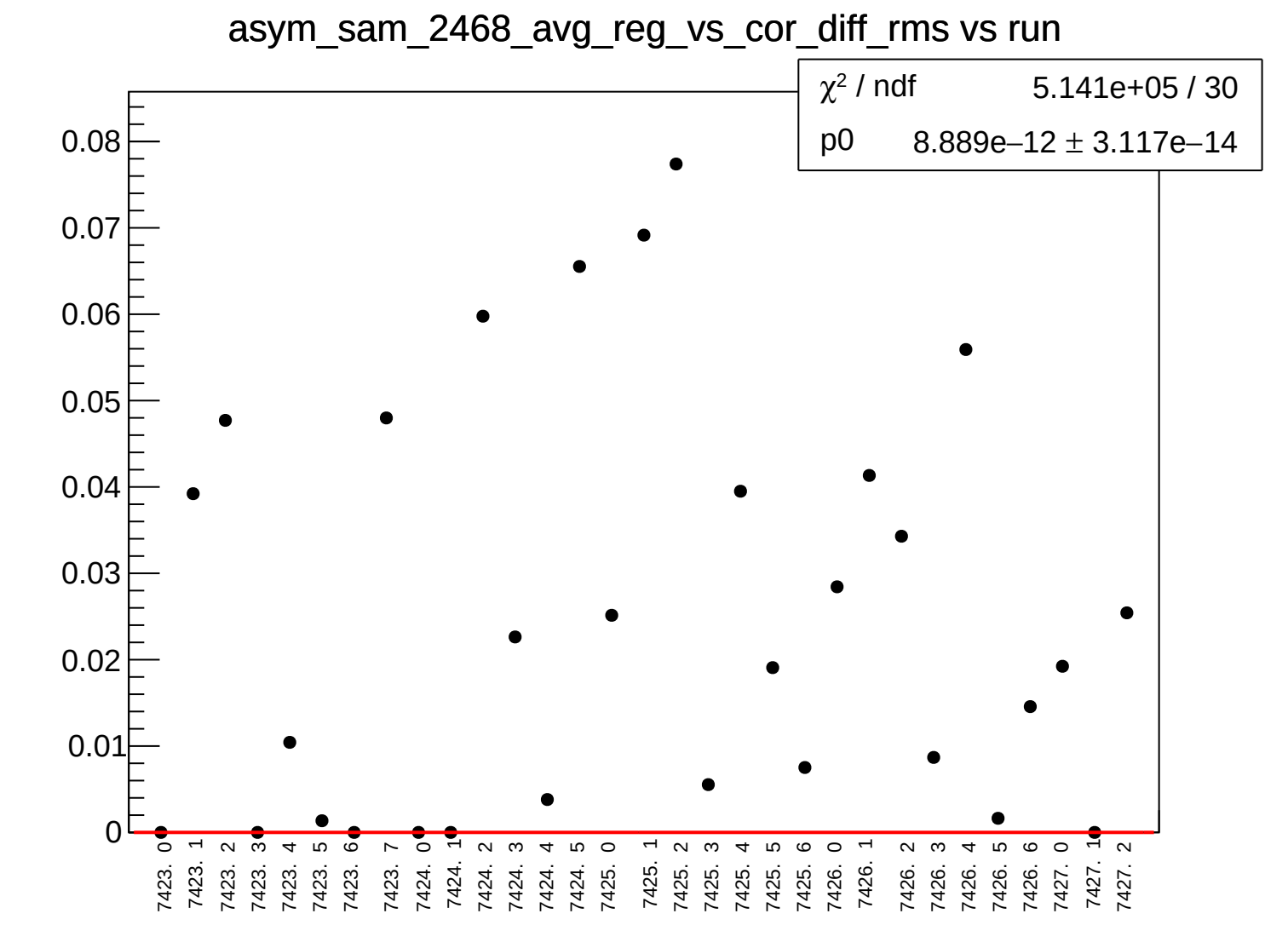

asym_sam_2468_avg_mean vs run
χ² / ndf 38.74 / 30
p0 −2412 ± 1305
20000
10000
0
−10000
−20000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 177.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

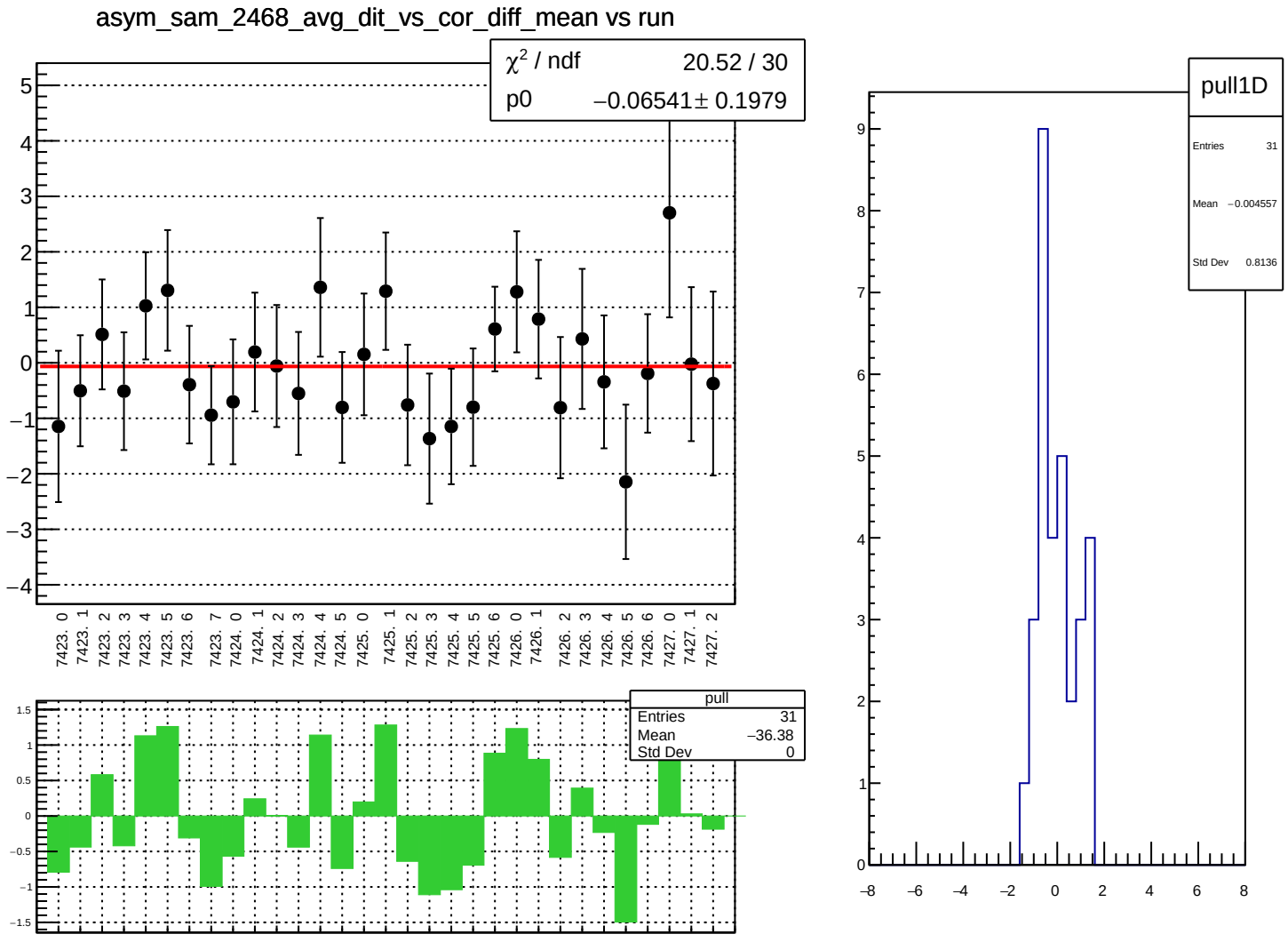

pull1D
Entries 31
Mean 0.01189
Std Dev 1.118
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

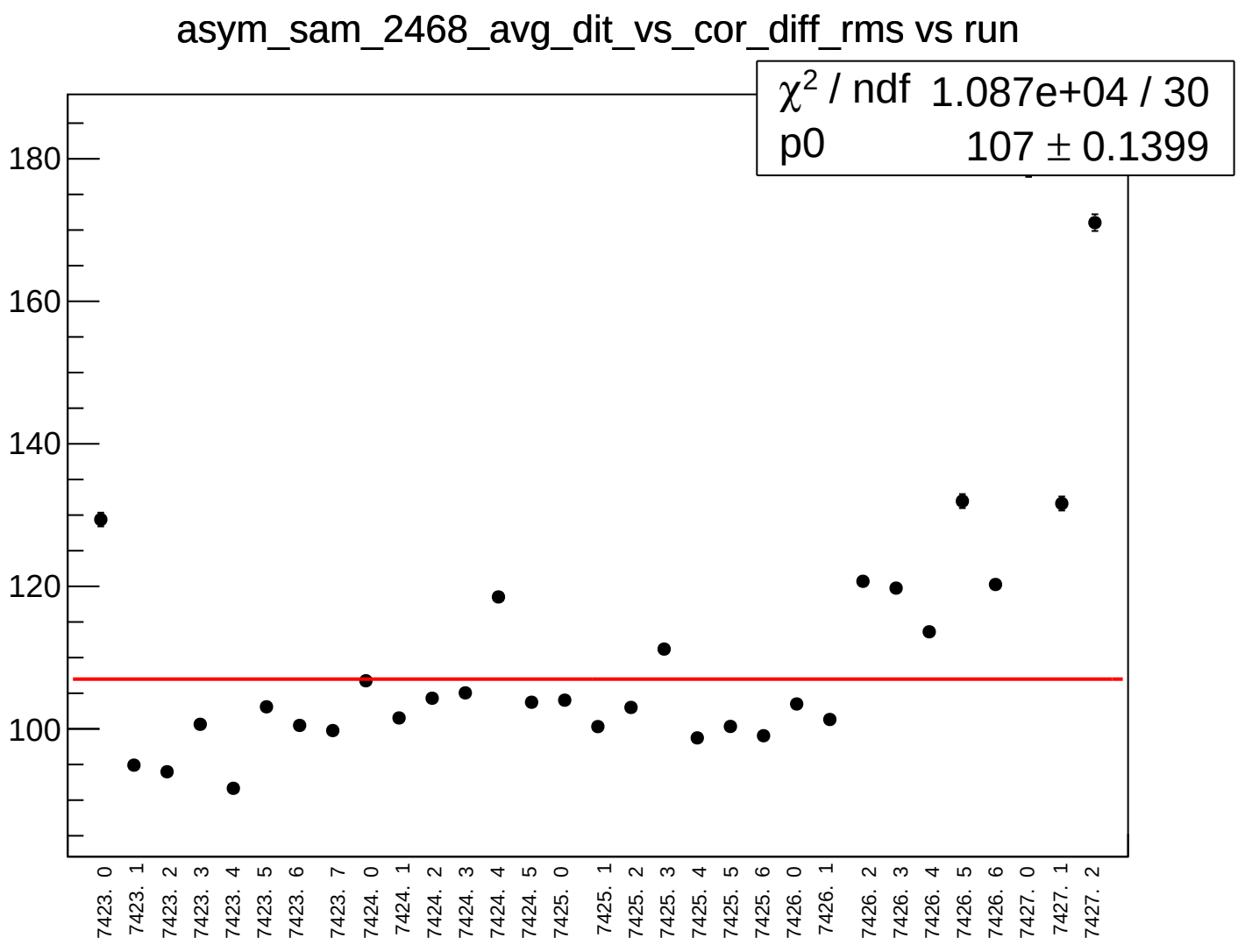

asym_sam_2468_avg_rms vs run
χ² / ndf 1318 / 30
p0 711.3 ± 0.9227
800
780
760
740
720
700
680
660
640
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

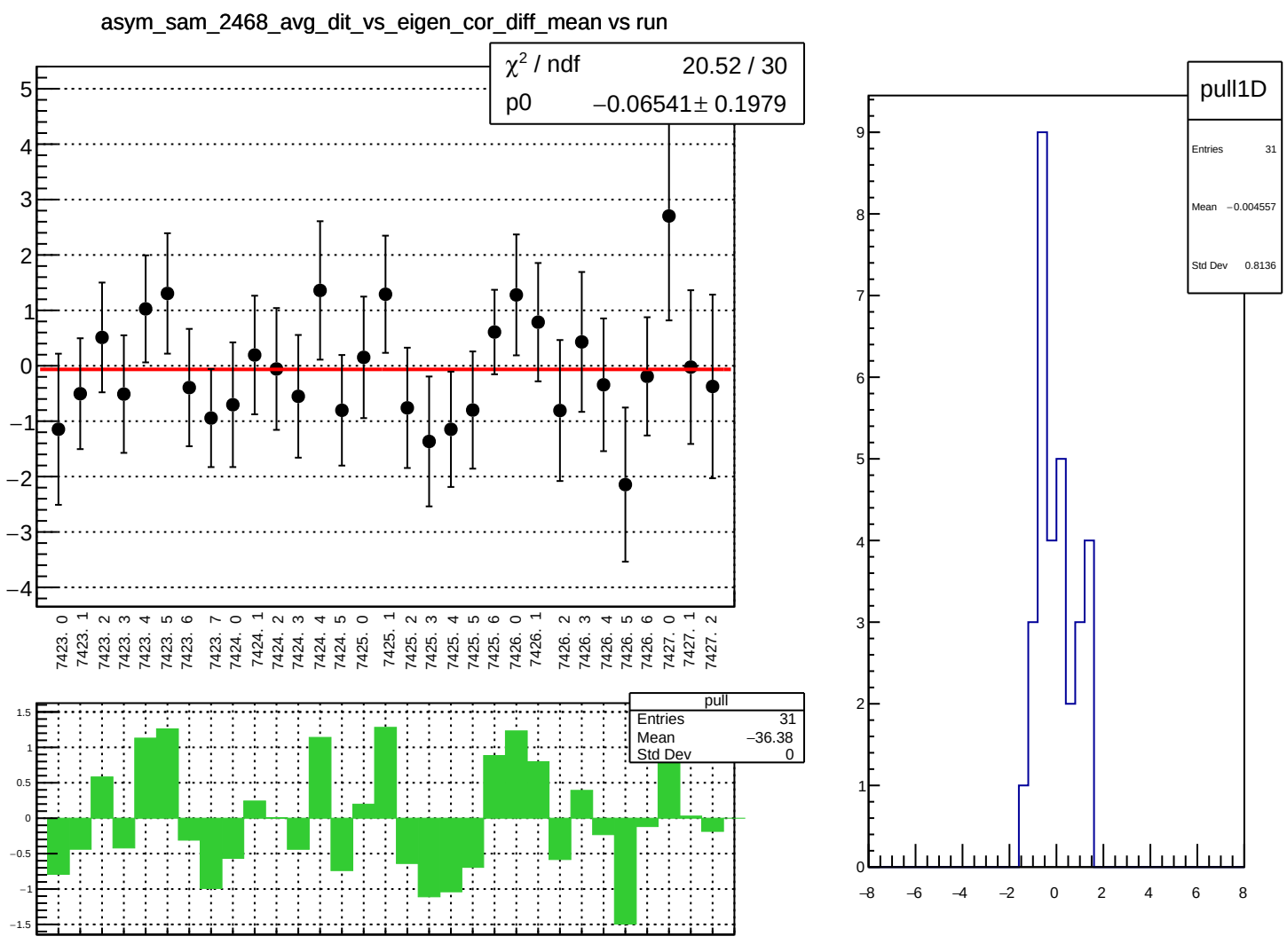

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 31.74 / 30
p0 −3.591e−14 ± 4.408e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

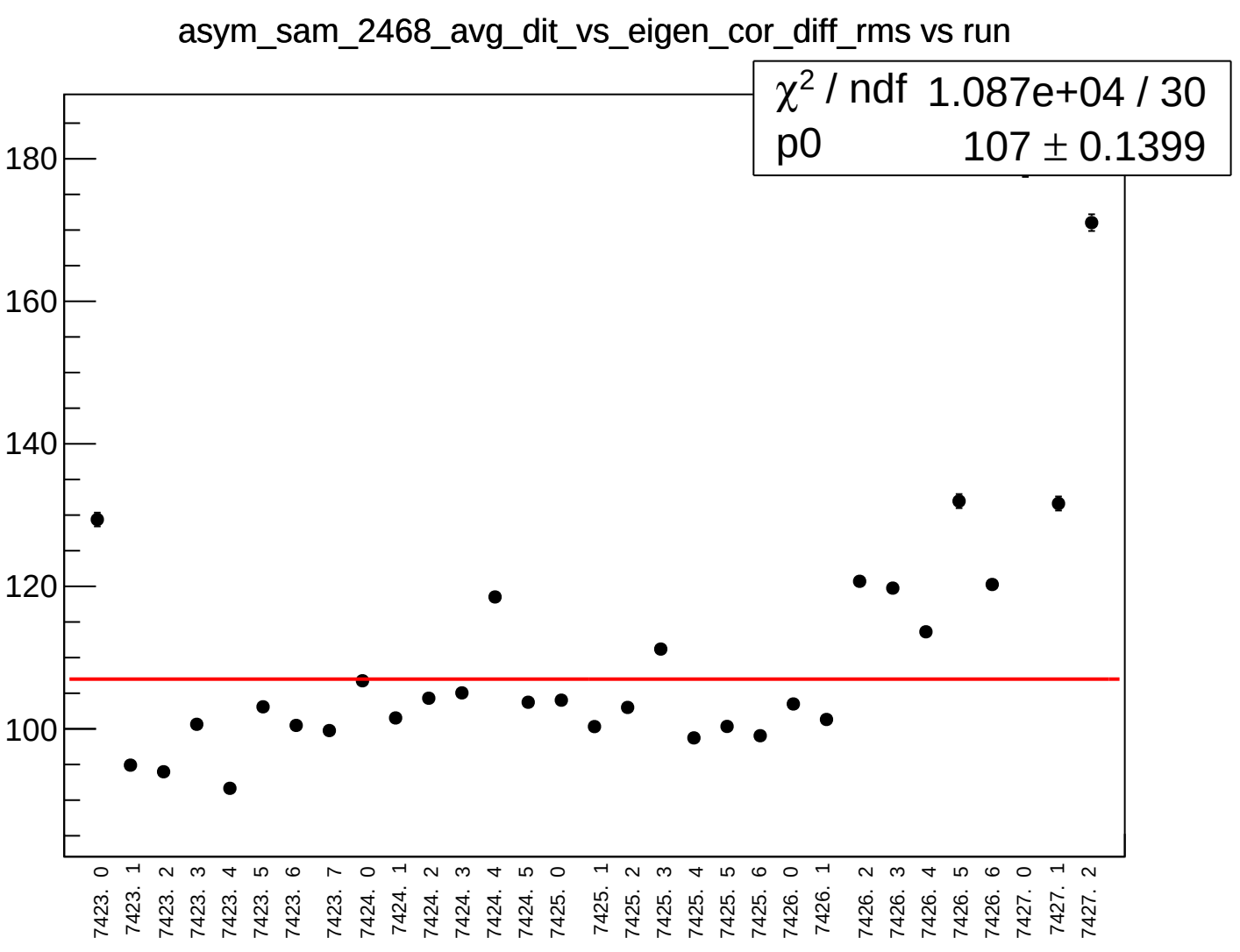

pull1D
Entries 31
Mean −0.2091
Std Dev 0.99
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

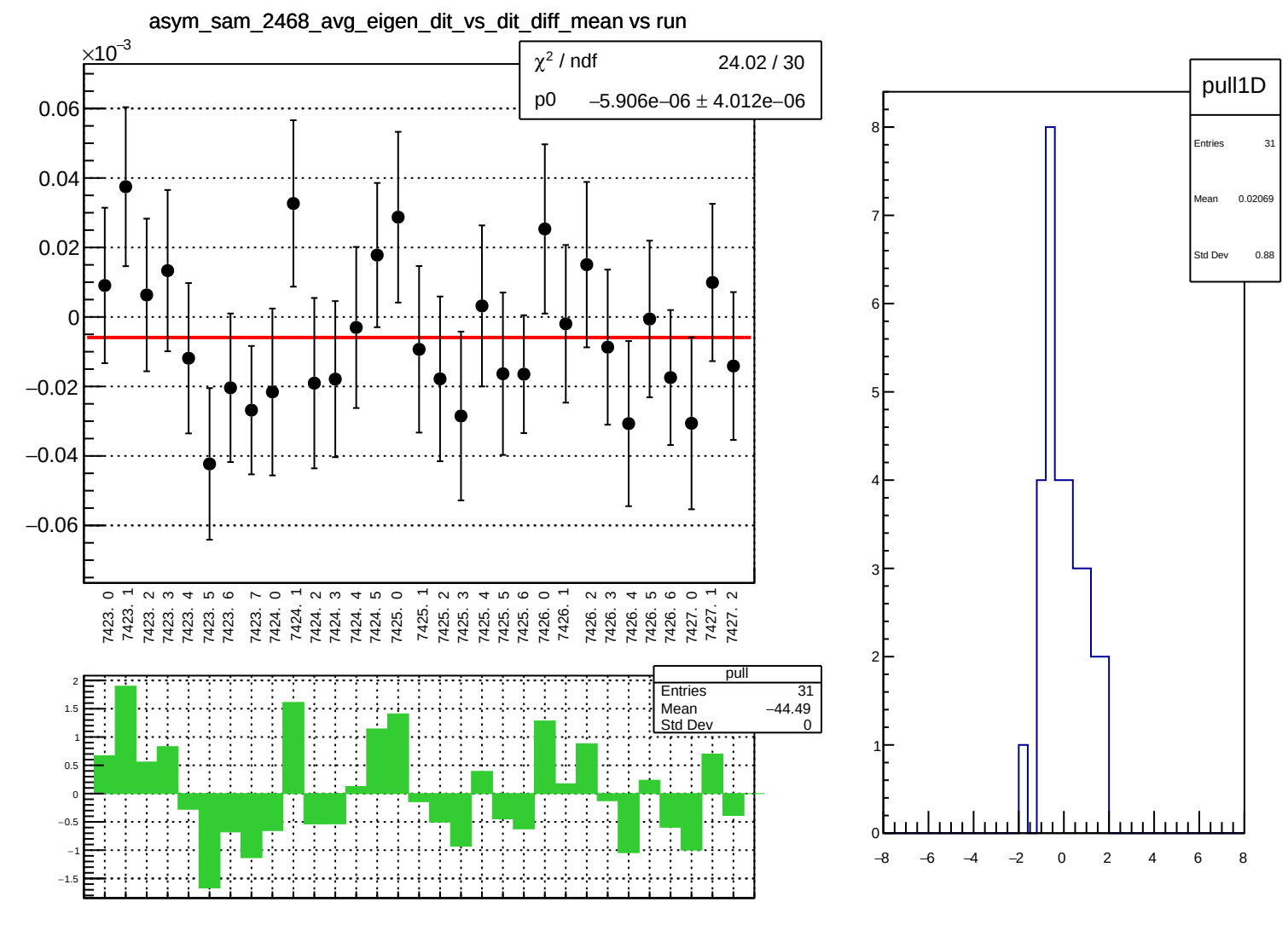

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.141e+05 / 30
p0 8.889e−12 ± 3.117e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

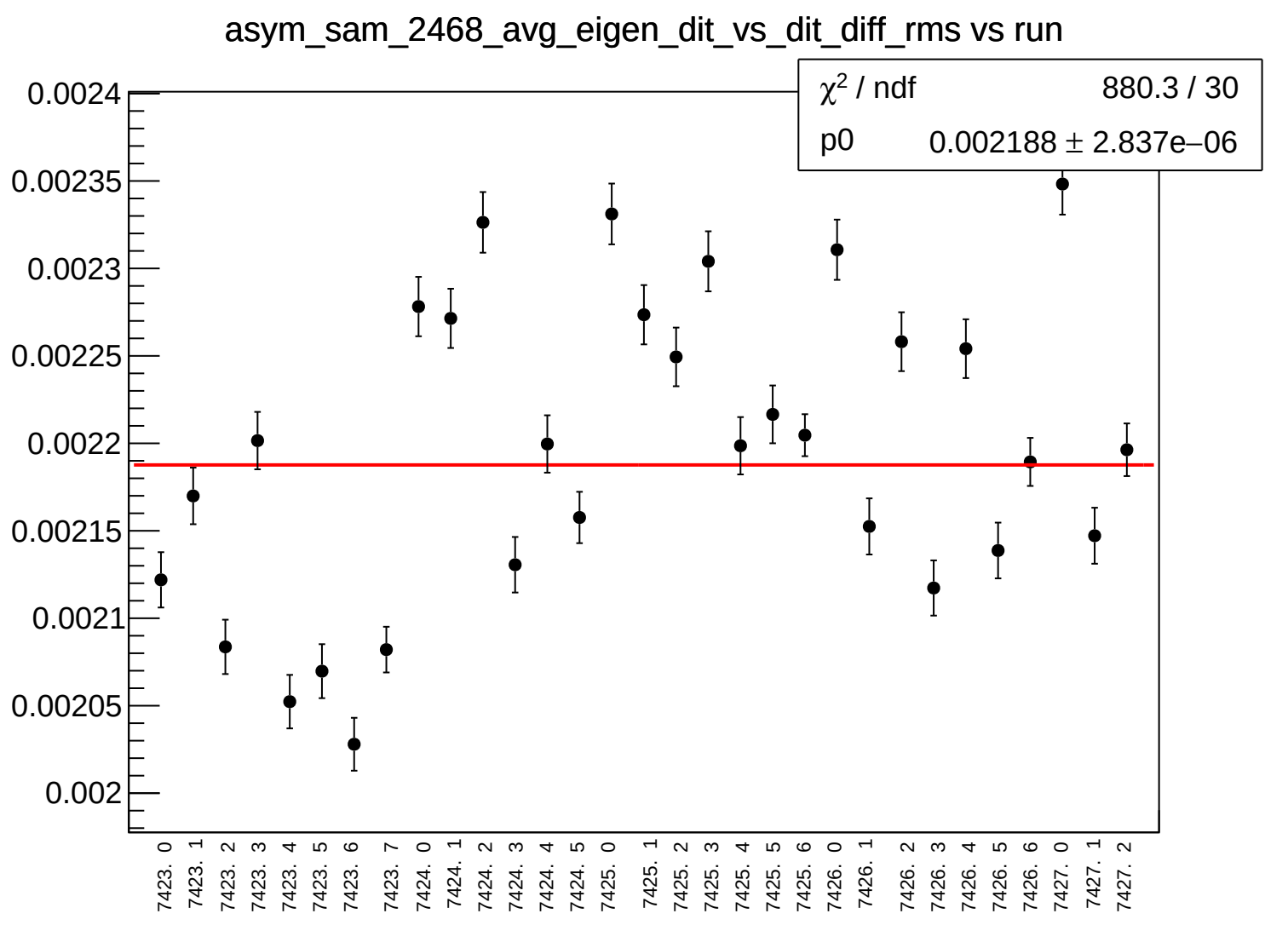

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.52 / 30
p0 −0.06541 ± 0.1979
pull
Entries 31
Mean −36.38
Std Dev 0
pull1D
Entries 31
Mean −0.004557
Std Dev 0.8136

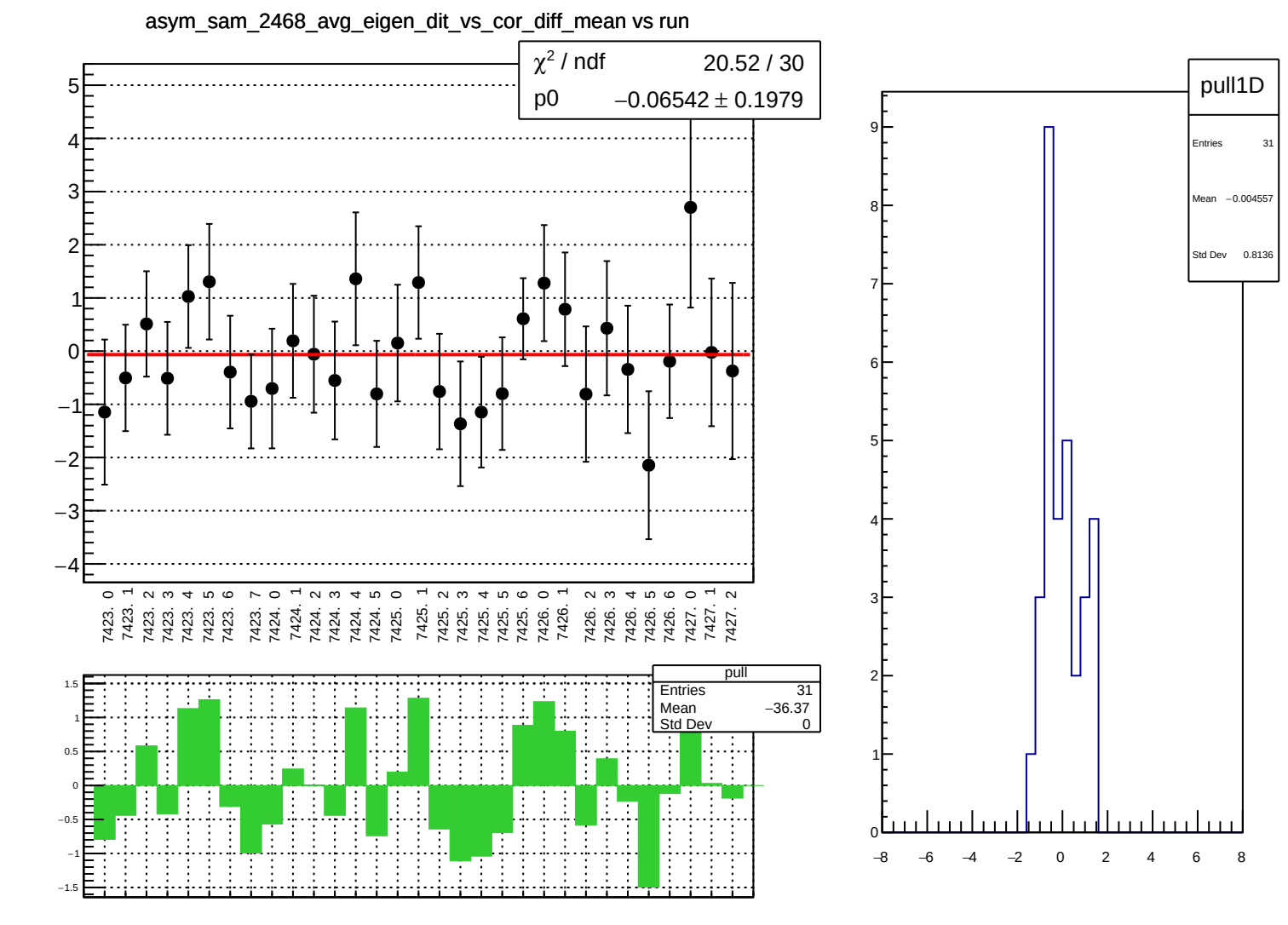

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.087e+04 / 30
p0 107 ± 0.1399
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

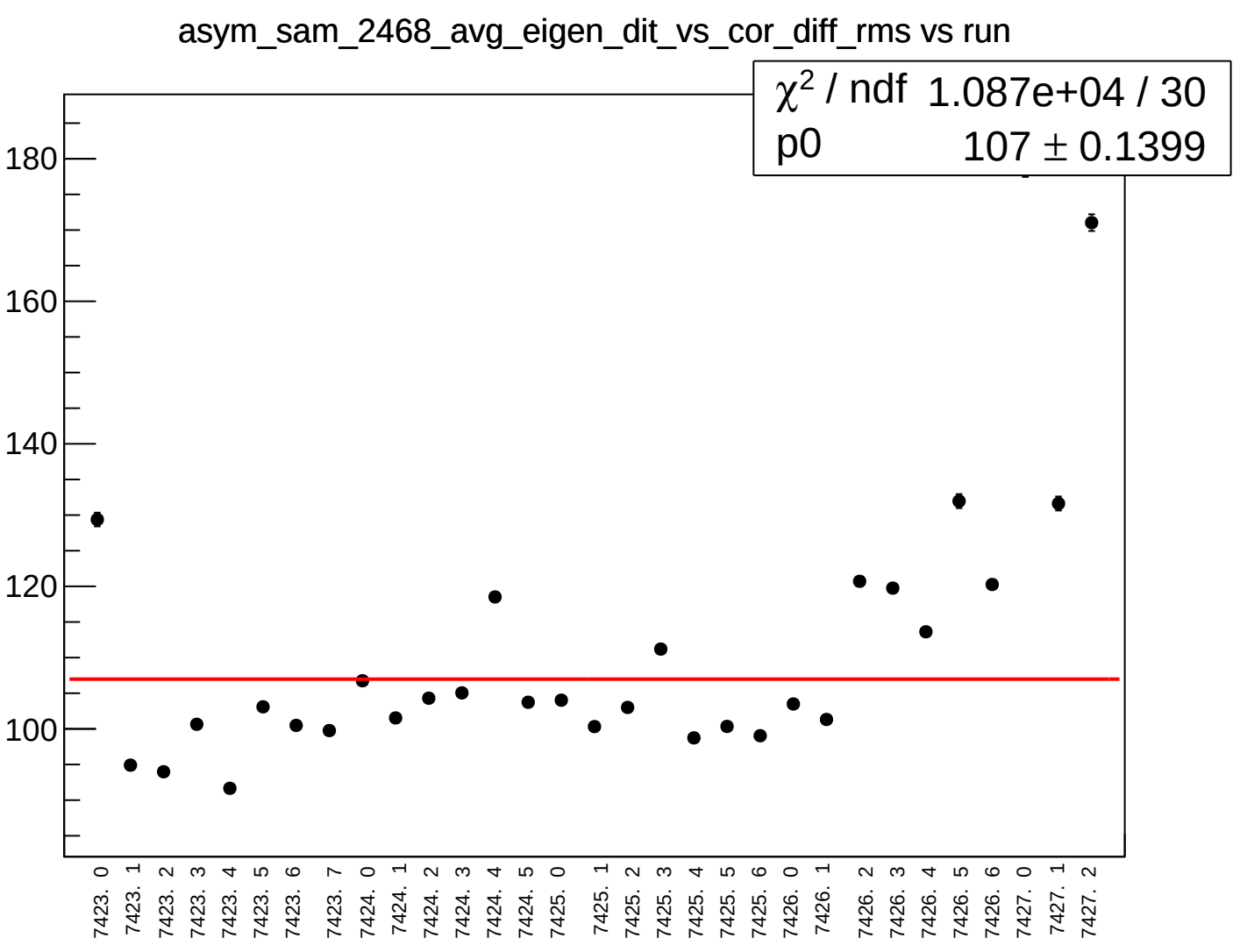

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.52 / 30
p0 −0.06541 ± 0.1979
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −36.38
Std Dev 0
pull1D
Entries 31
Mean −0.004557
Std Dev 0.8136


asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.087e+04 / 30
p0 107 ± 0.1399
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

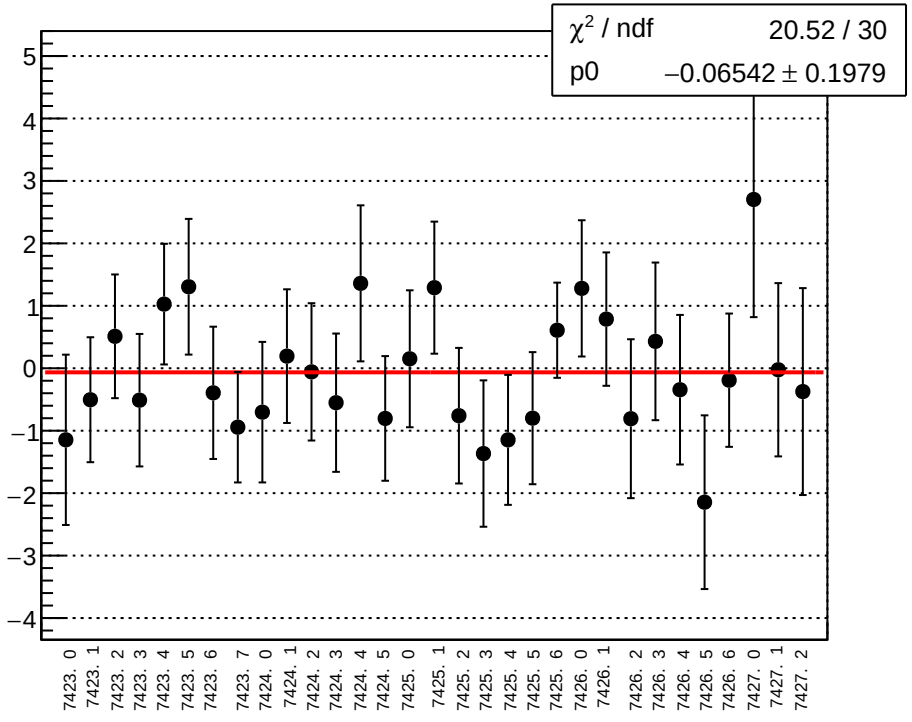

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 24.02 / 30
p0 −5.906e−06 ± 4.012e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −44.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.02069
Std Dev 0.88
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

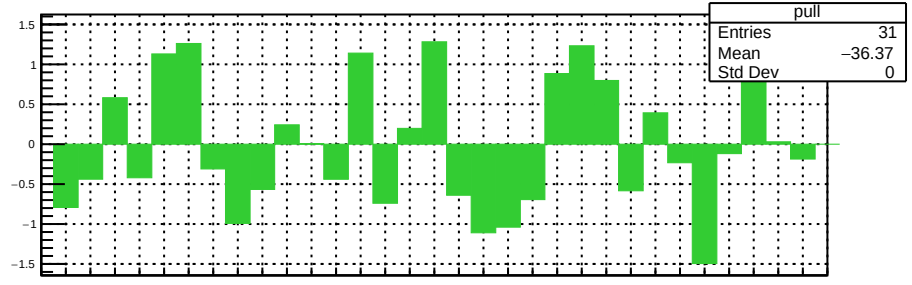

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 880.3 / 30
p0 0.002188 ± 2.837e−06
0.0024
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

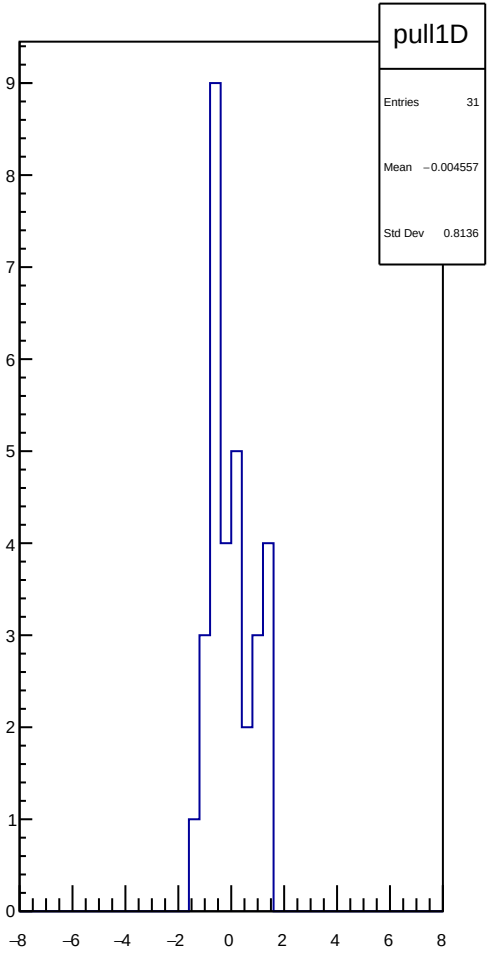

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.52 / 30
p0 −0.06542 ± 0.1979
pull
Entries 31
Mean −36.37
Std Dev 0
pull1D
Entries 31
Mean −0.004557
Std Dev 0.8136

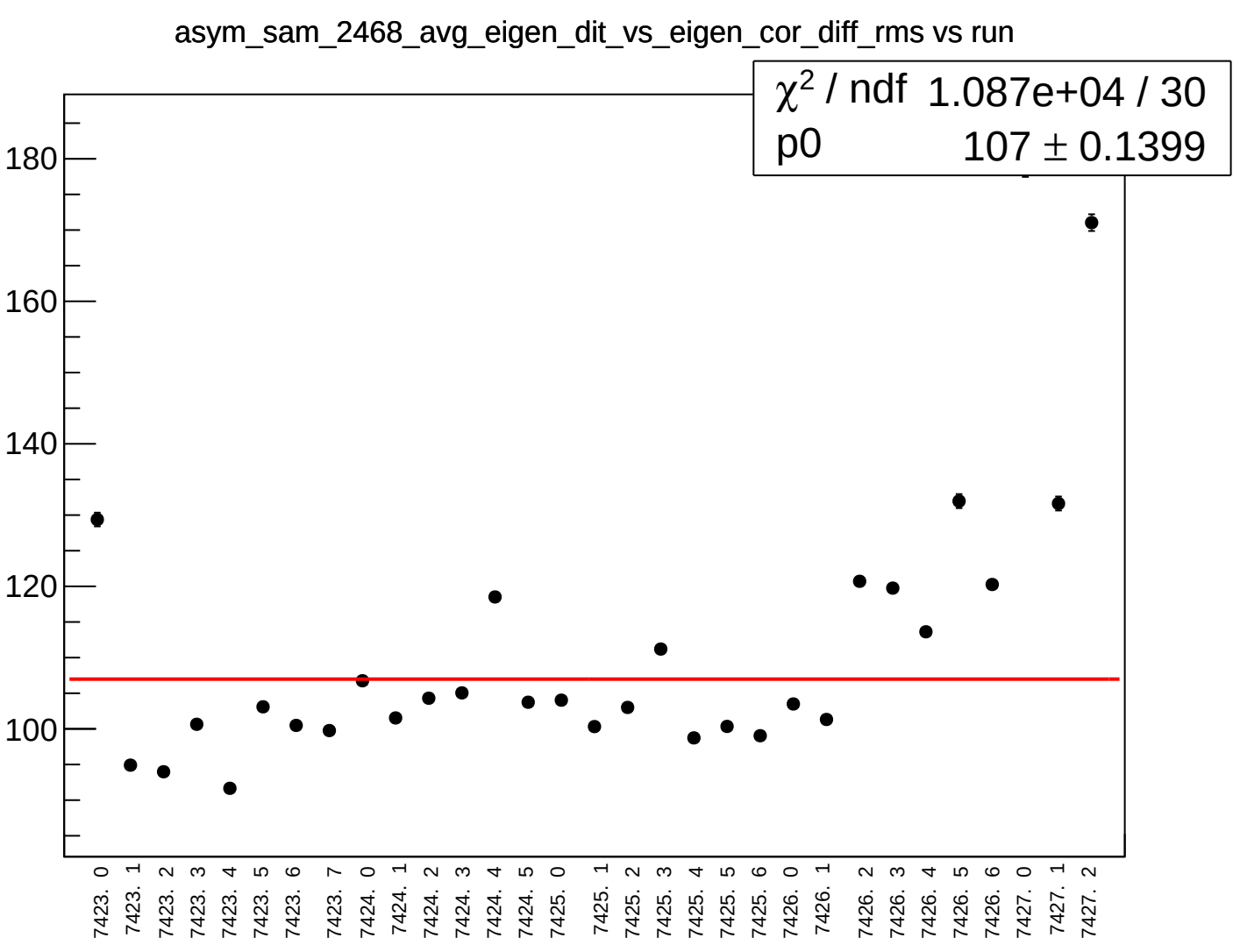

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.087e+04 / 30
p0 107 ± 0.1399
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

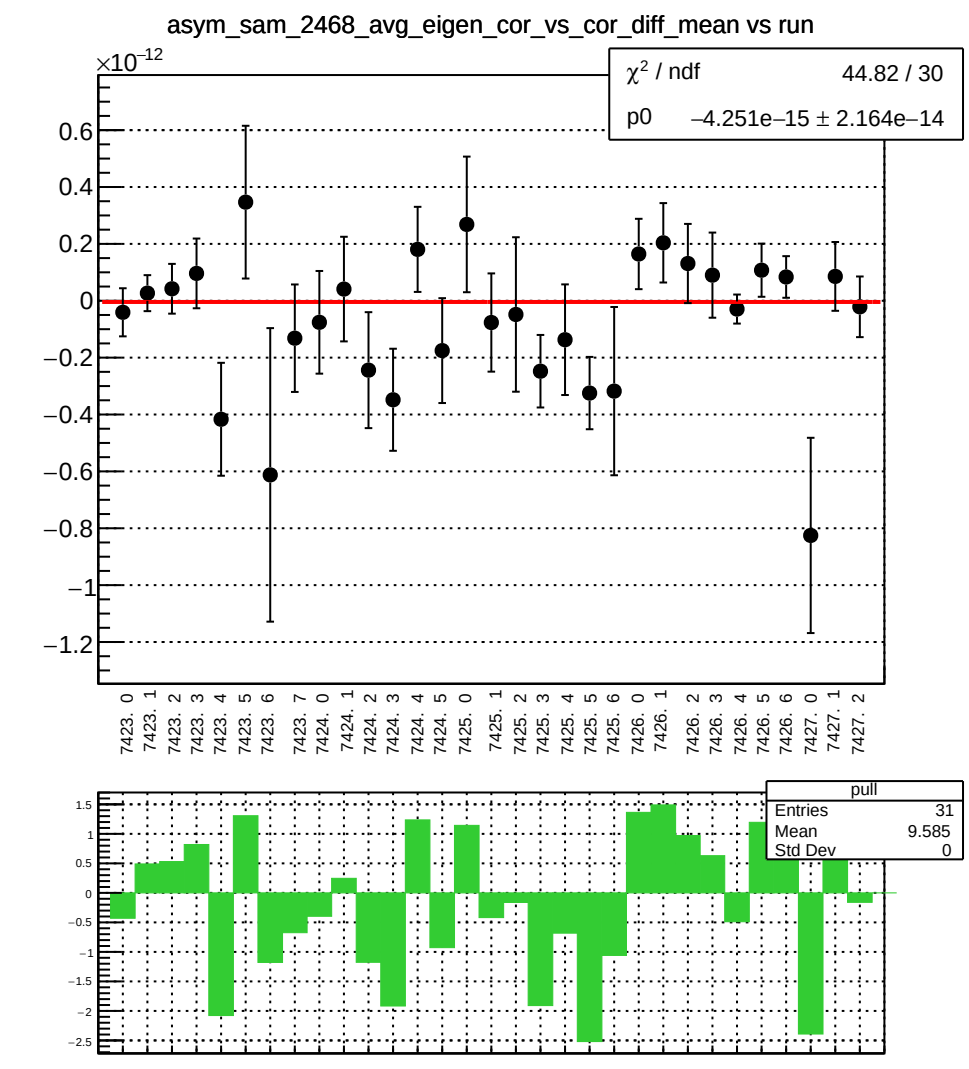
asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

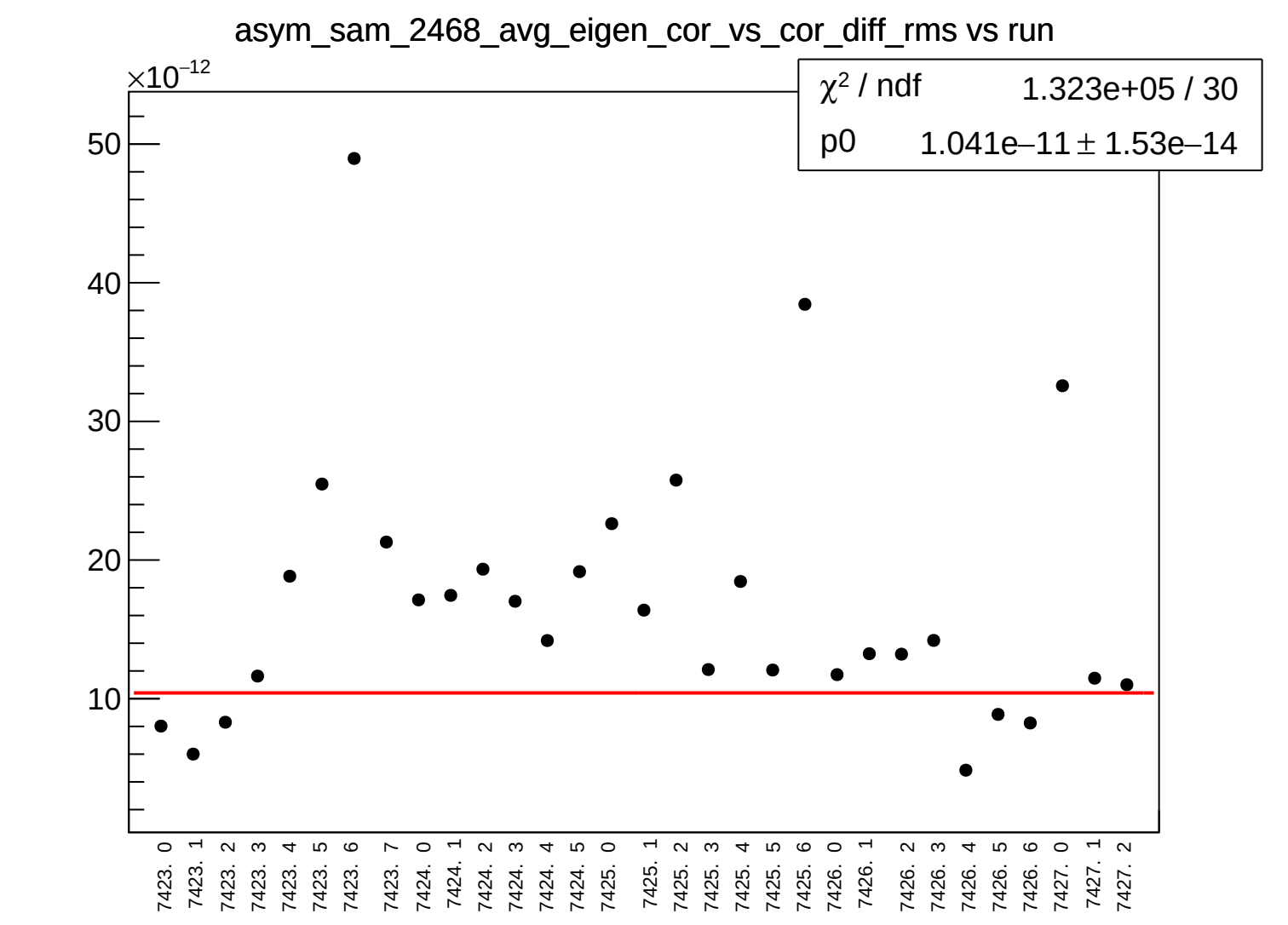


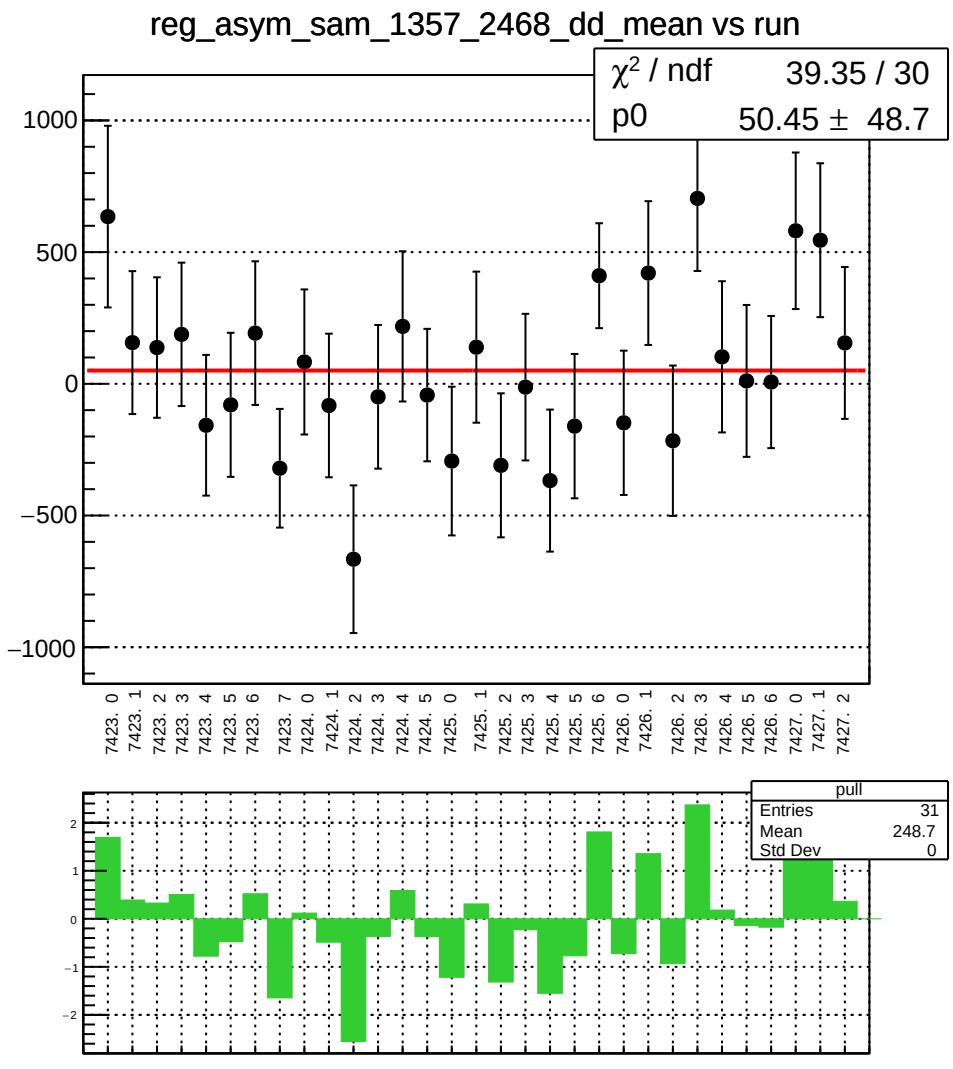


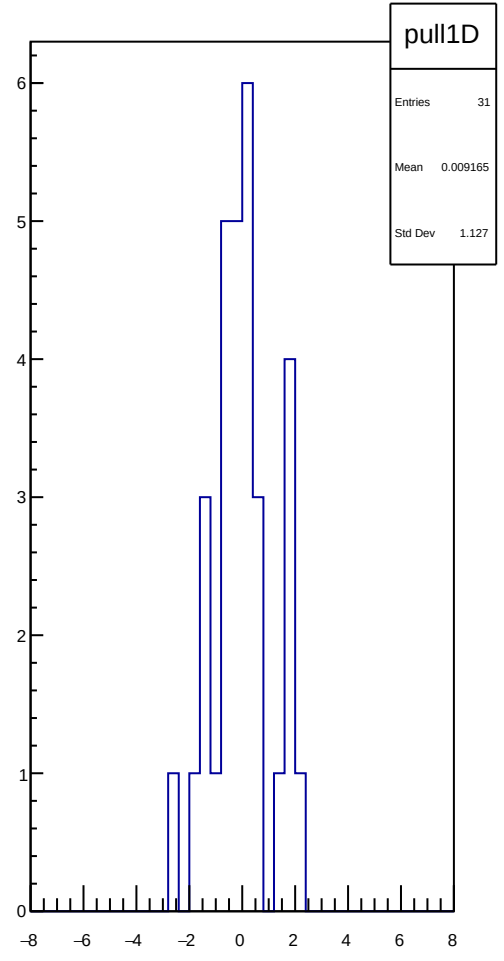


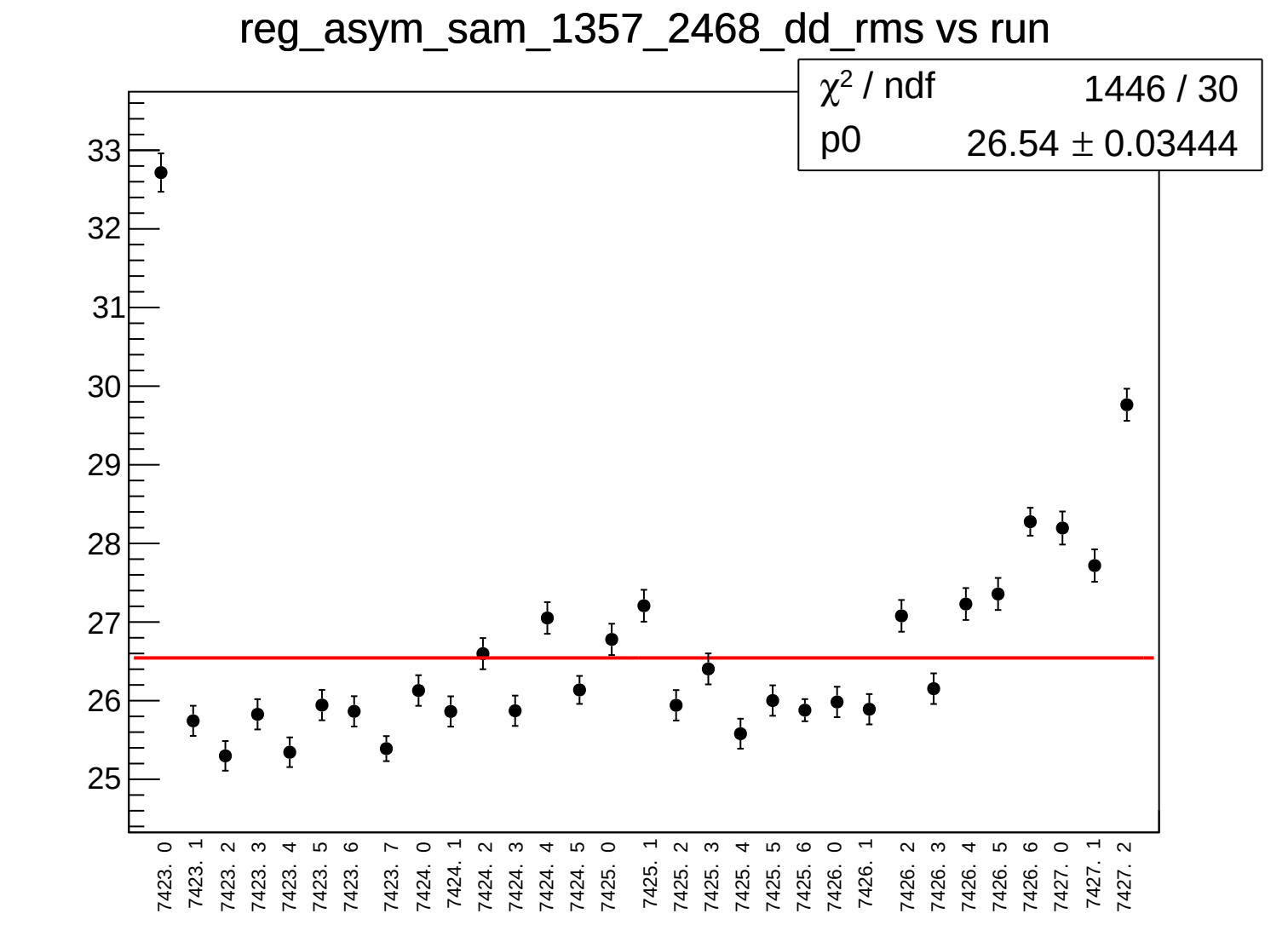

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.087e+04 / 30
p0 107 ± 0.1399
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

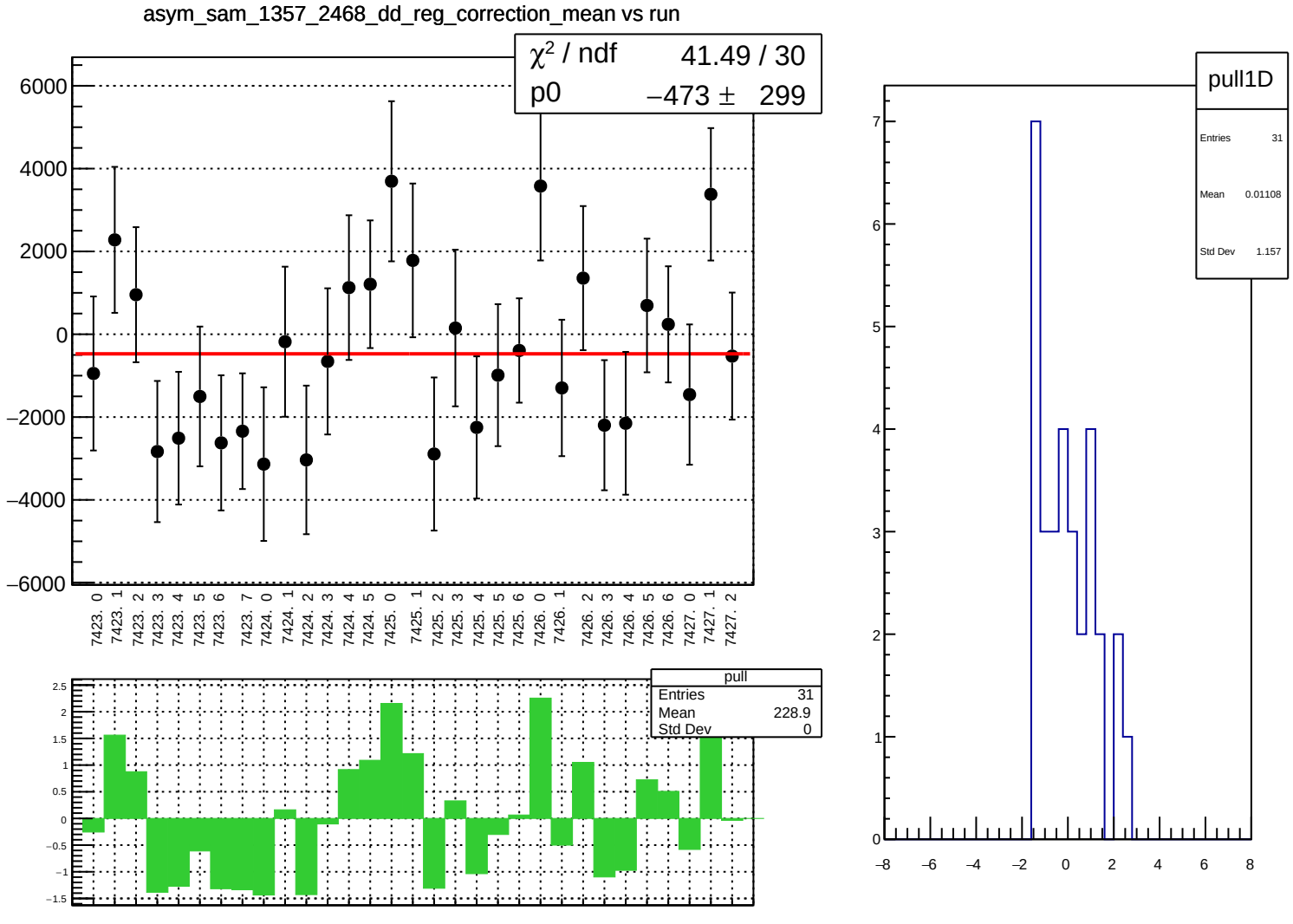

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.82 / 30
p0 −4.251e−15 ± 2.164e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 9.585
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.1677
Std Dev 1.191
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

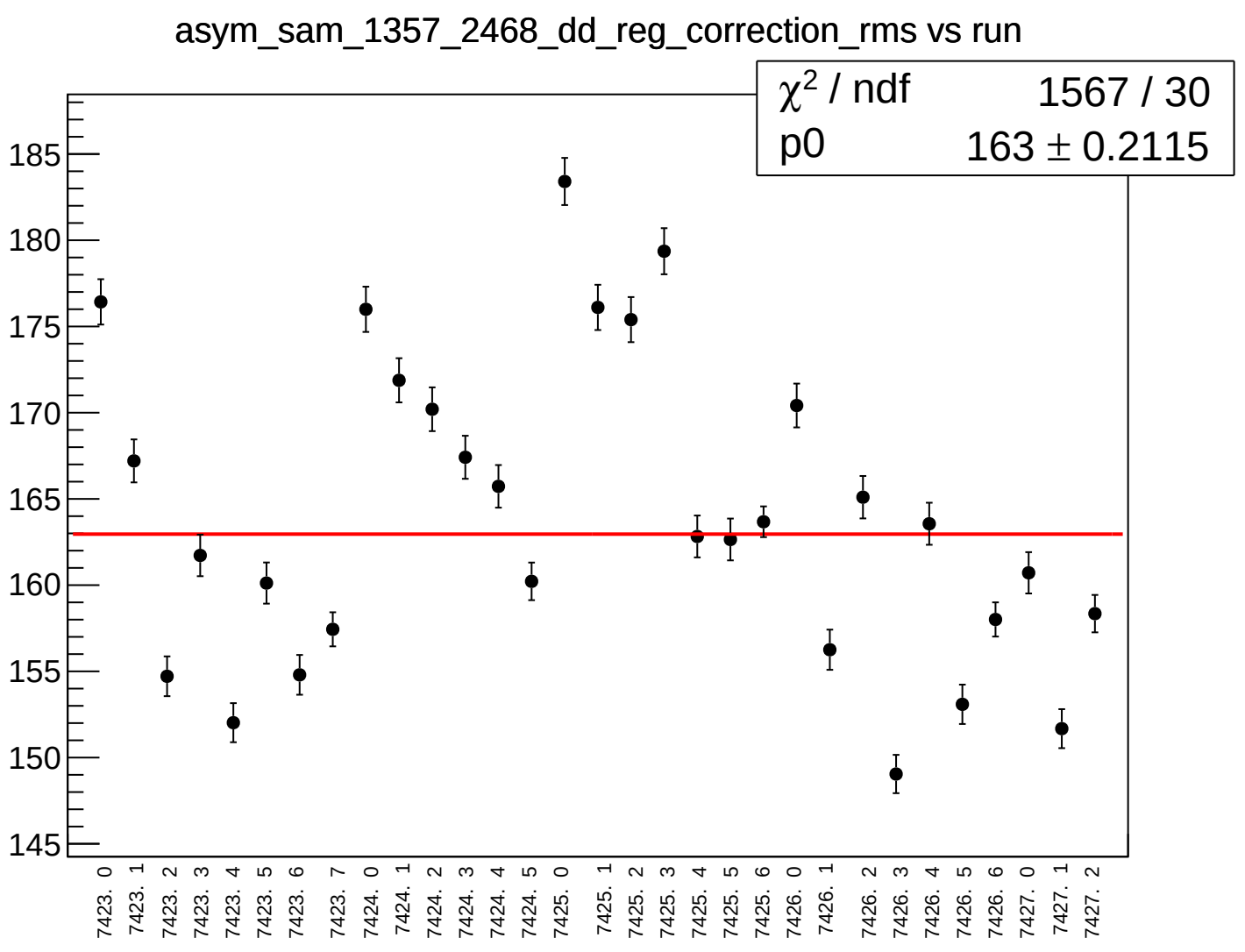

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.323e+05 / 30
p0 1.041e−11 ± 1.53e−14
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

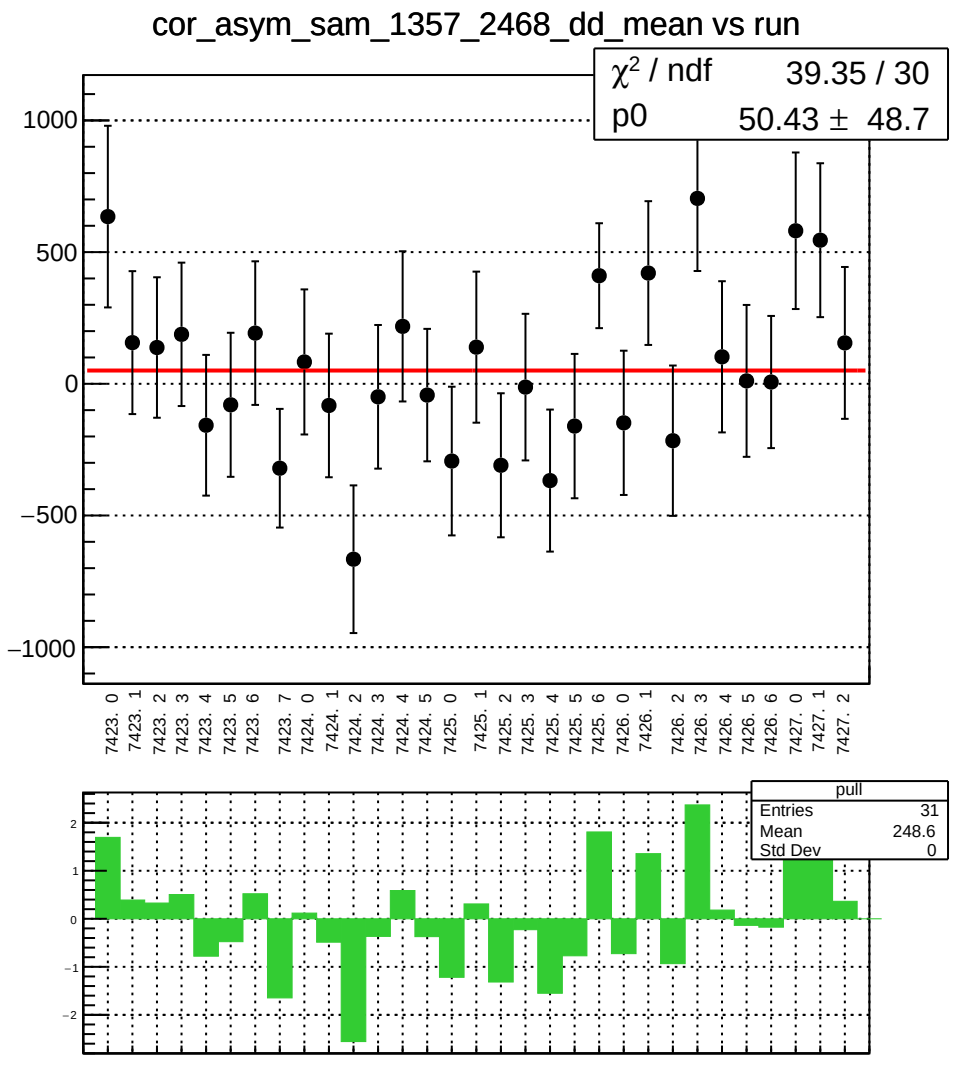

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 39.35 / 30
p0 50.45 ± 48.7
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 248.7
Std Dev 0
2
1
0
−1
−2

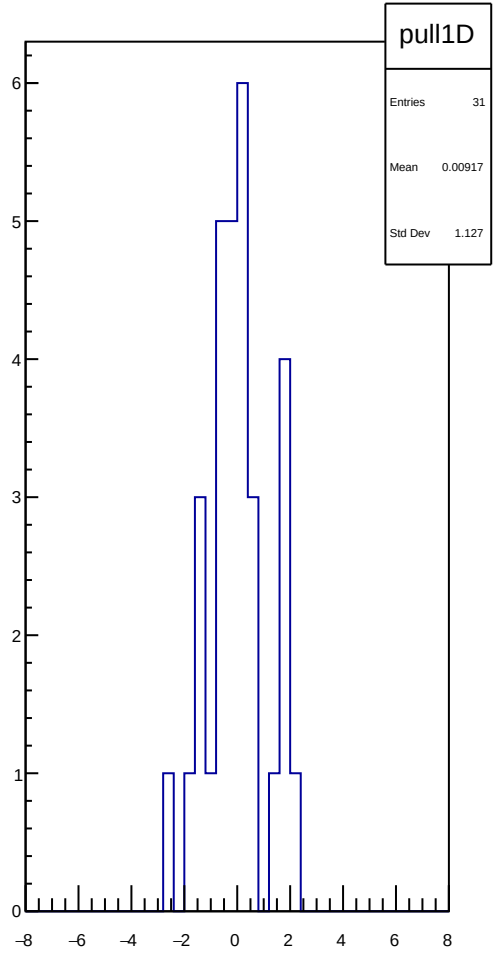

pull1D
Entries 31
Mean 0.009165
Std Dev 1.127
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

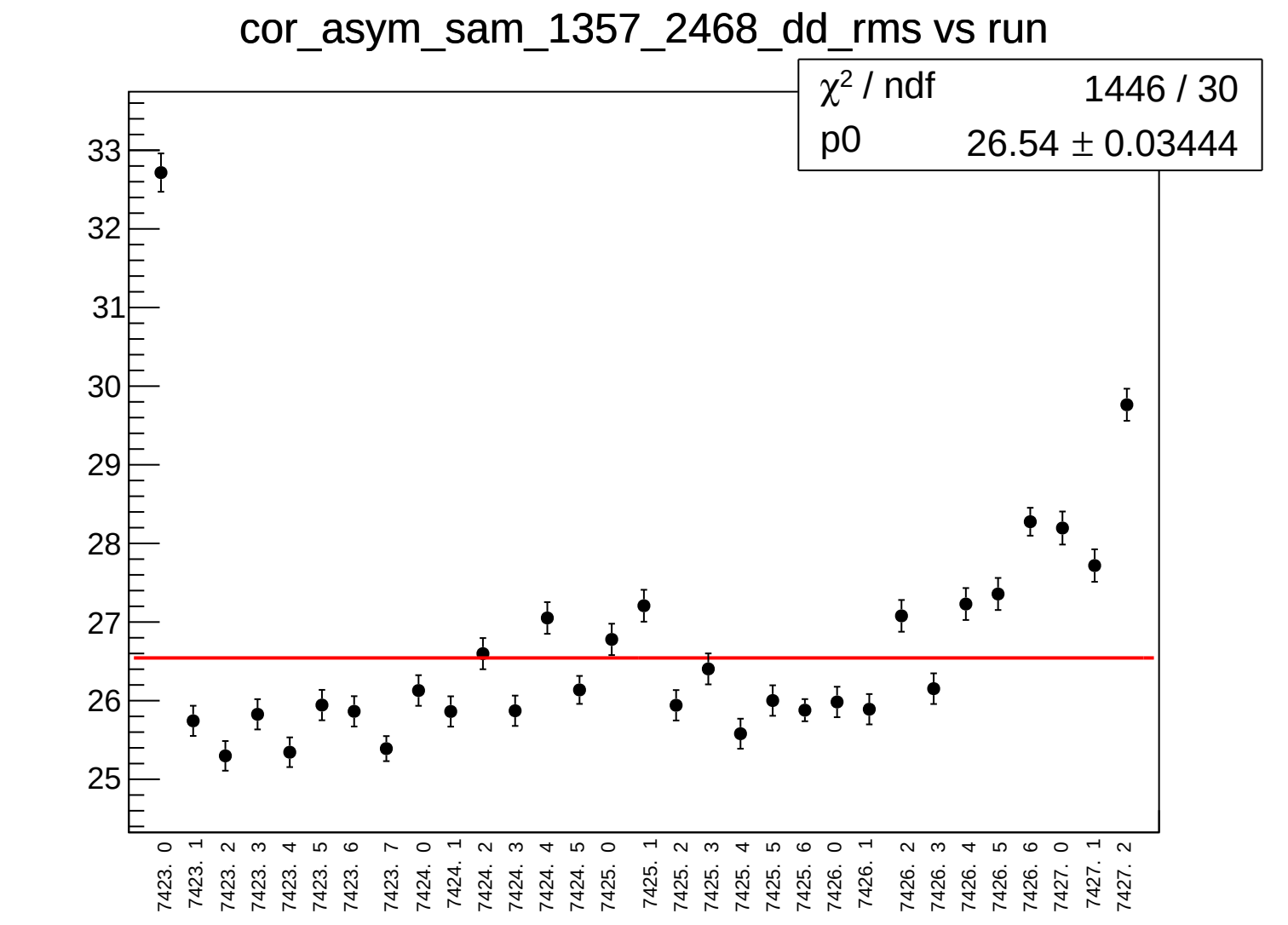

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1446 / 30
p0 26.54 ± 0.03444
33
32
31
30
29
28
27
26
25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

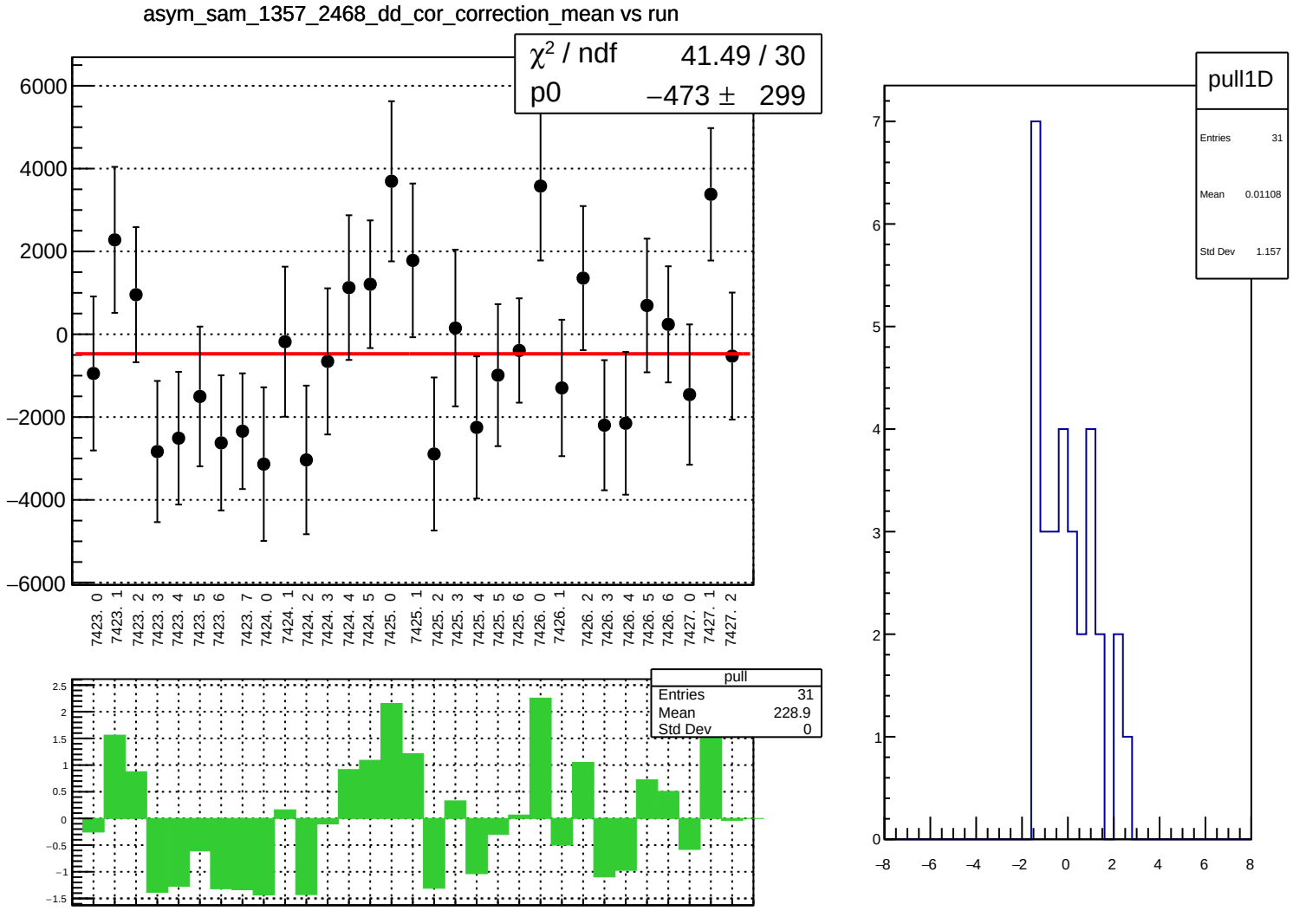

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 41.49 / 30
p0 −473 ± 299
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 228.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01108
Std Dev 1.157
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

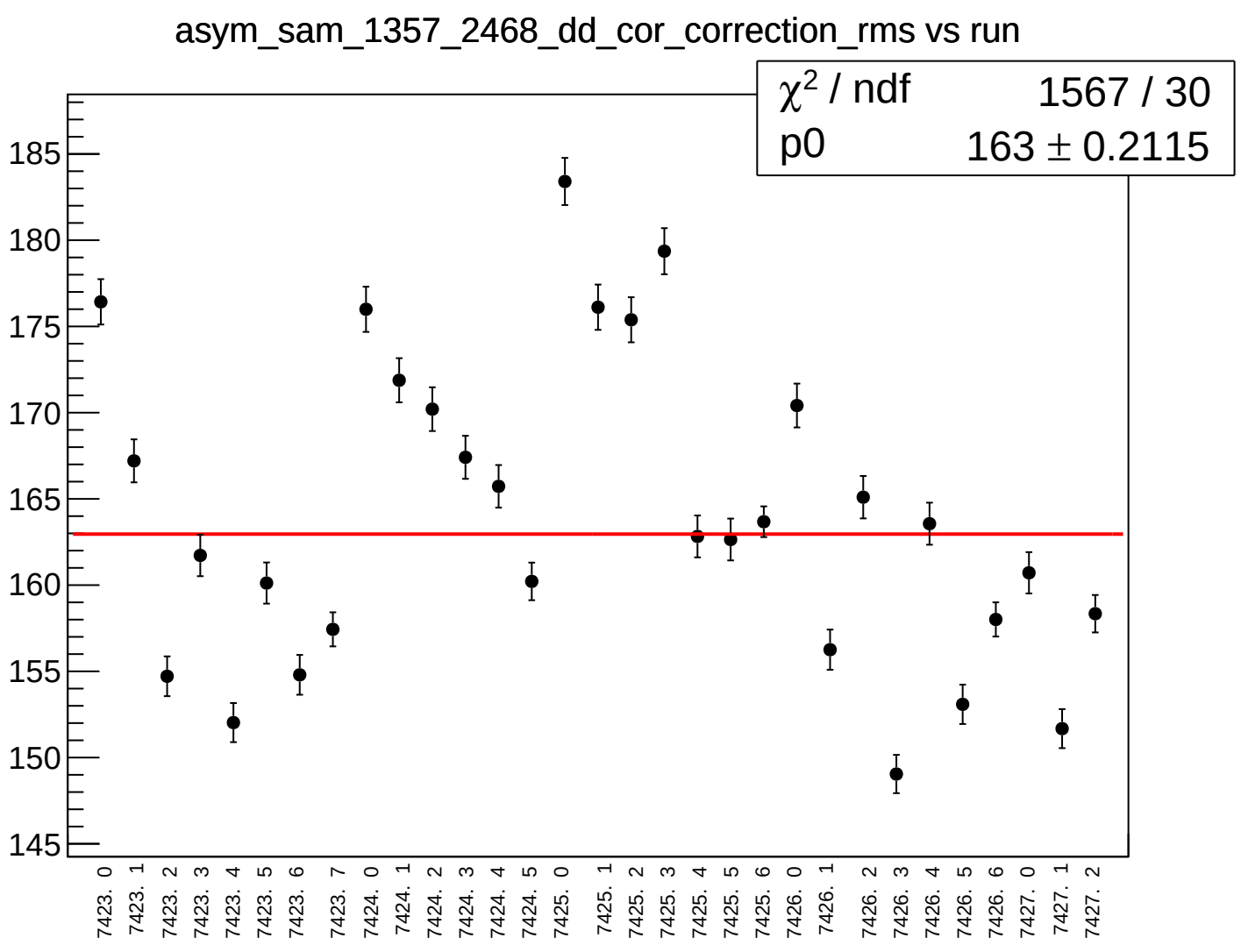

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1567 / 30
p0 163 ± 0.2115
185
180
175
170
165
160
155
150
145
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

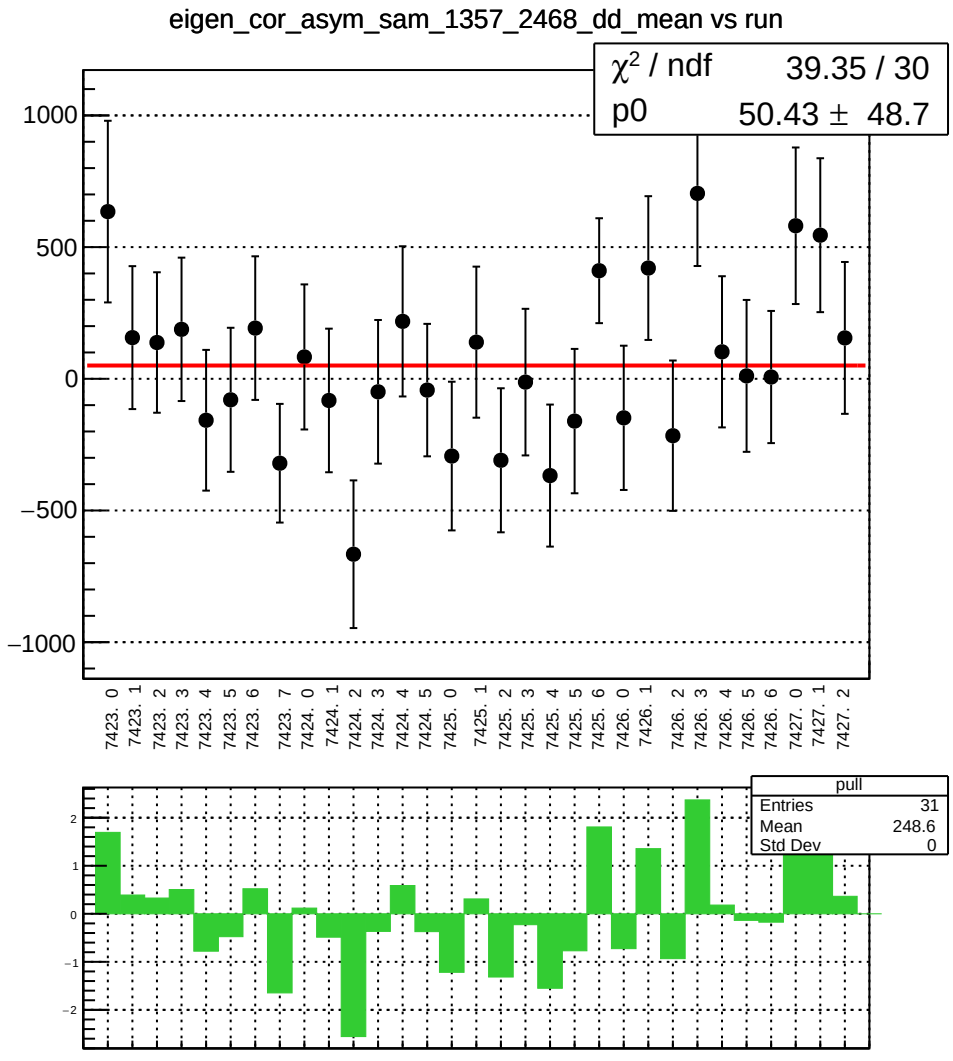

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 39.35 / 30
p0 50.43 ± 48.7
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 248.6
Std Dev 0
2
1
0
−1
−2

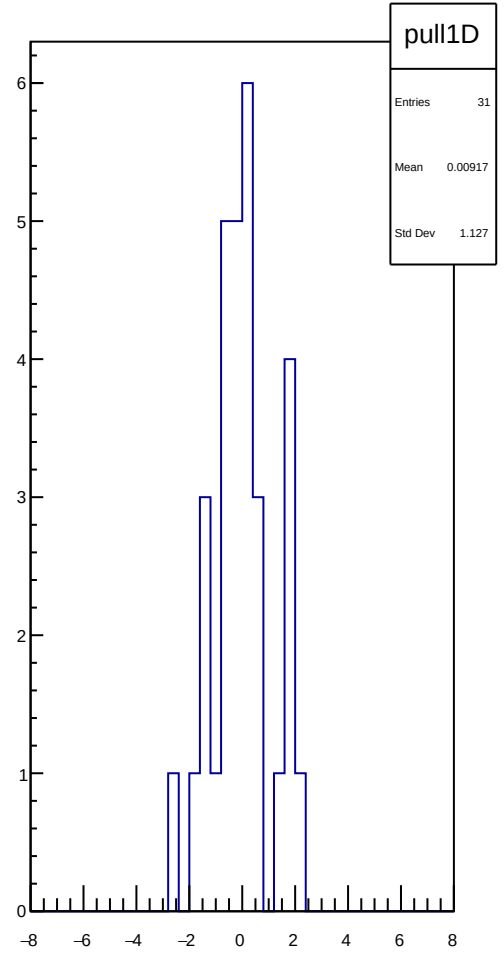

pull1D
Entries 31
Mean 0.00917
Std Dev 1.127
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

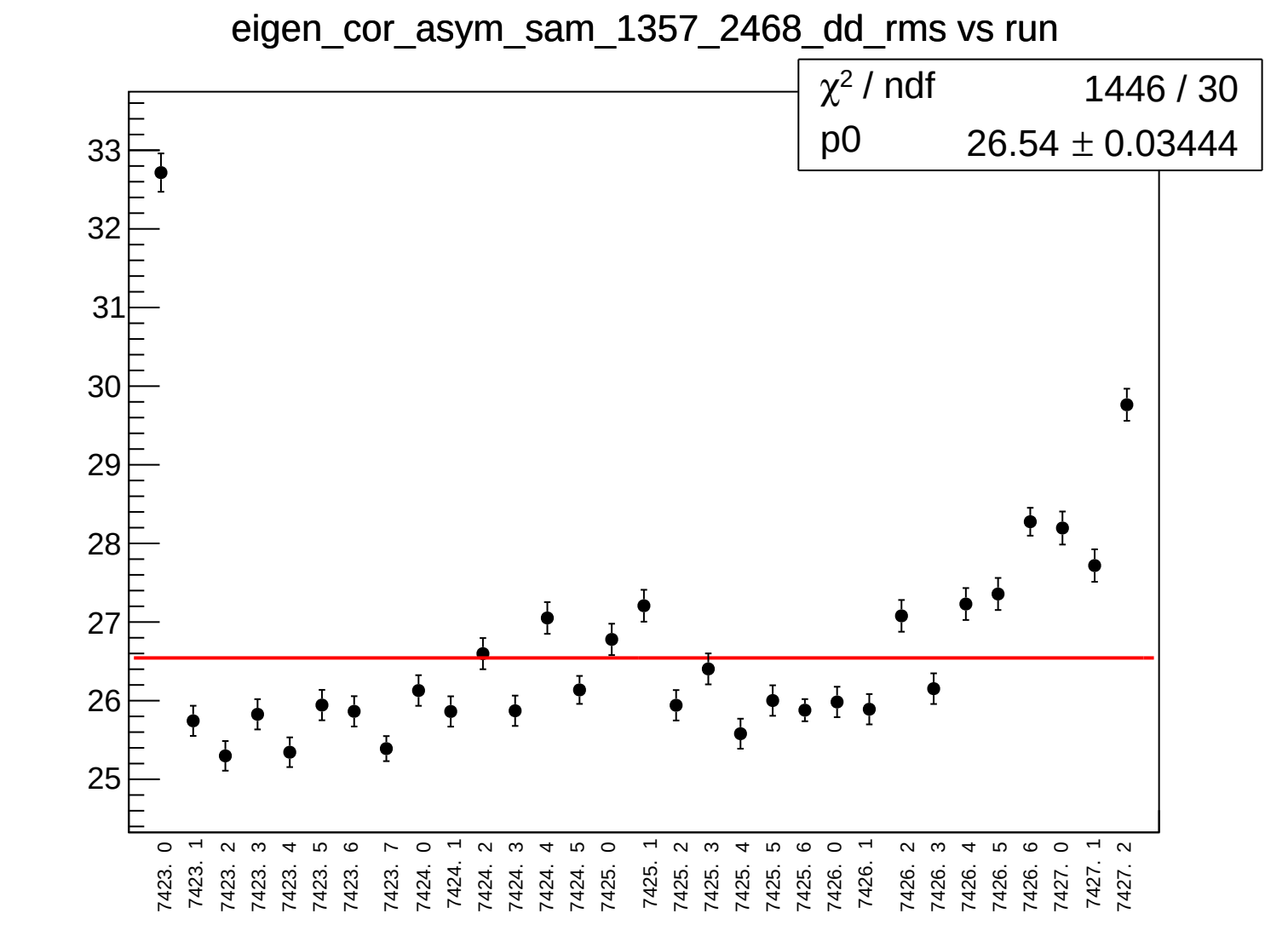

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1446 / 30
p0 26.54 ± 0.03444
33
32
31
30
29
28
27
26
25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

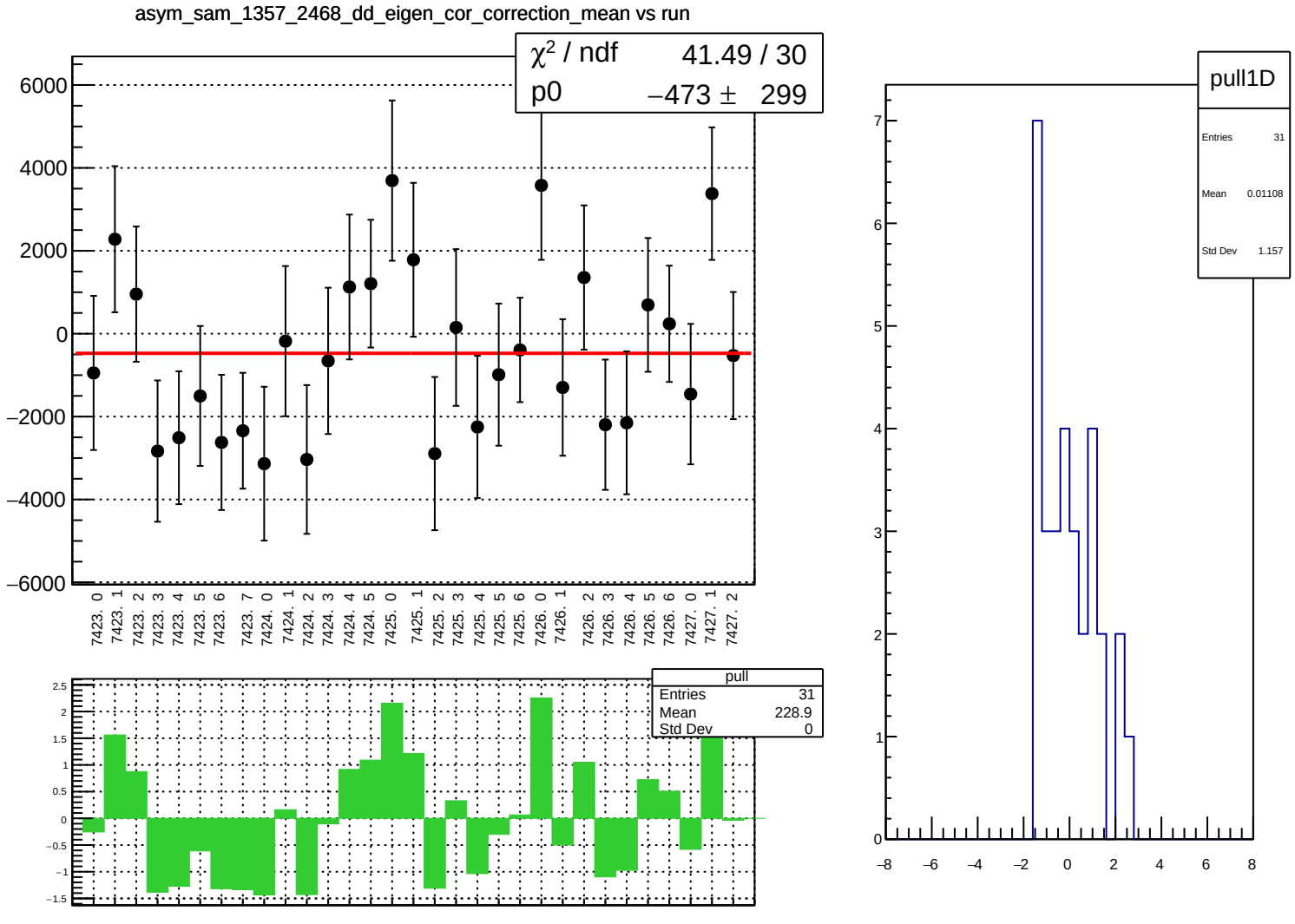

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 41.49 / 30
p0 −473 ± 299
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 228.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01108
Std Dev 1.157
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

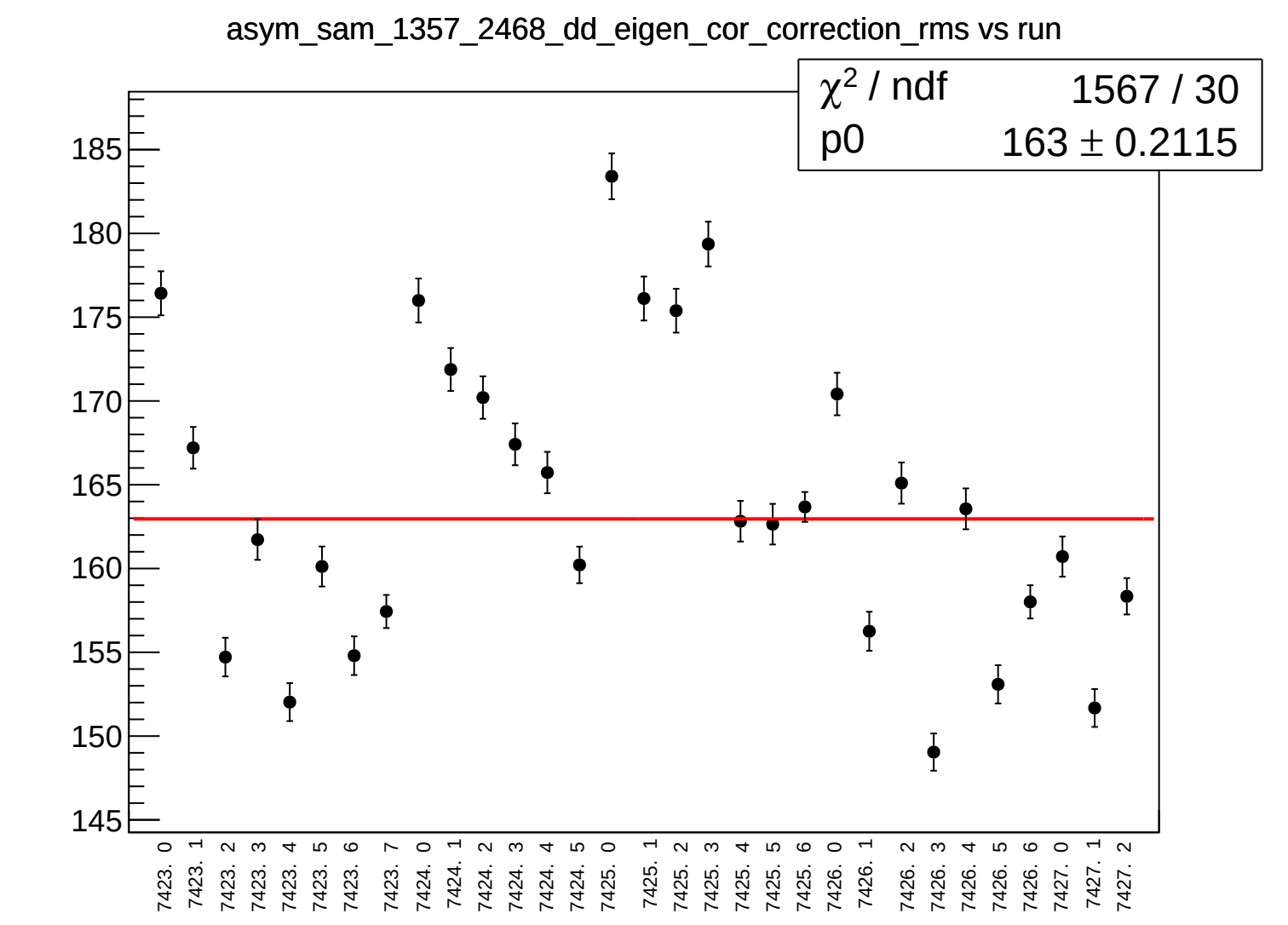

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1567 / 30
p0 163 ± 0.2115
185
180
175
170
165
160
155
150
145
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

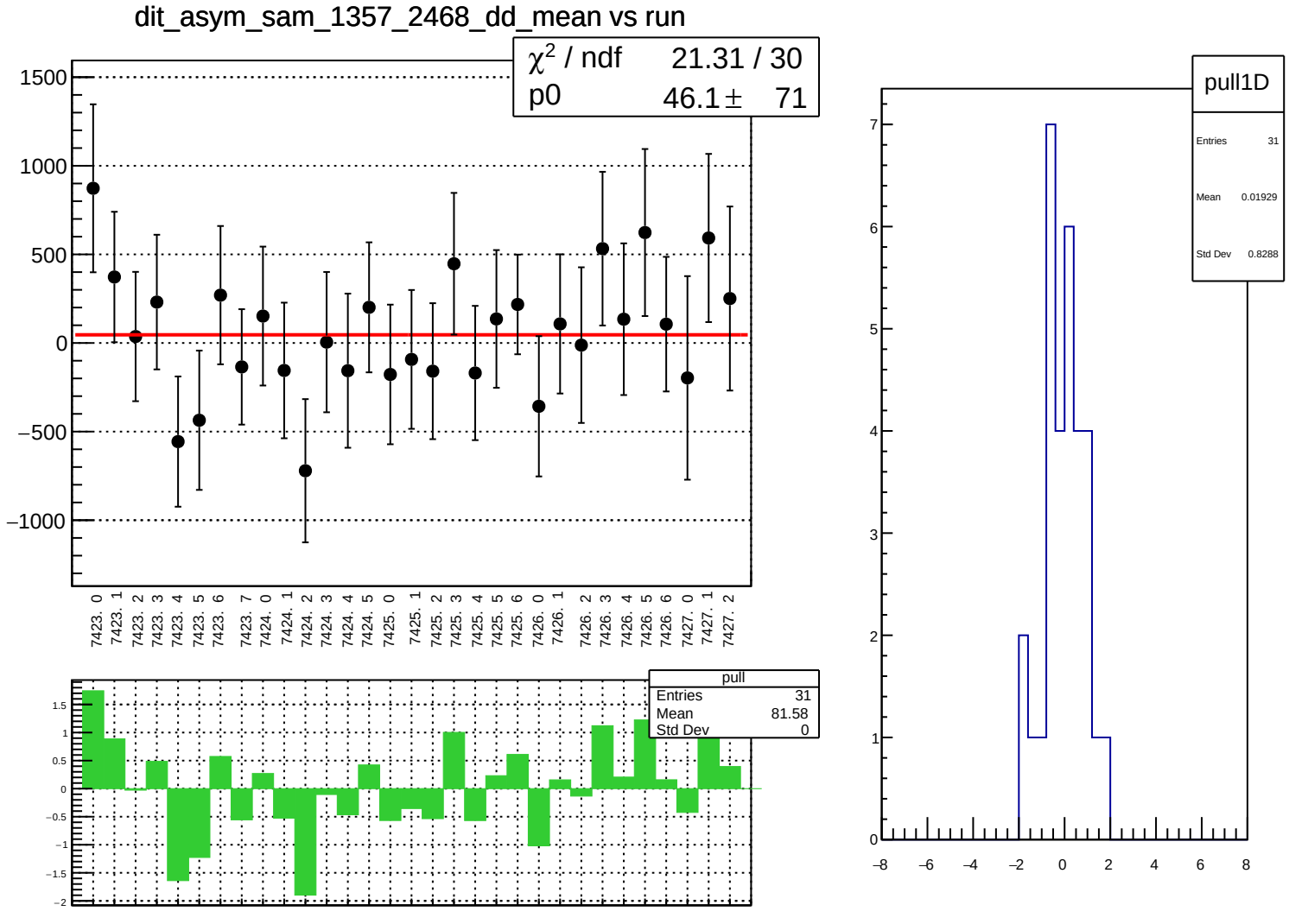

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 39.35 / 30
p0 50.43 ± 48.7
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 248.6
Std Dev 0
2
1
0
−1
−2

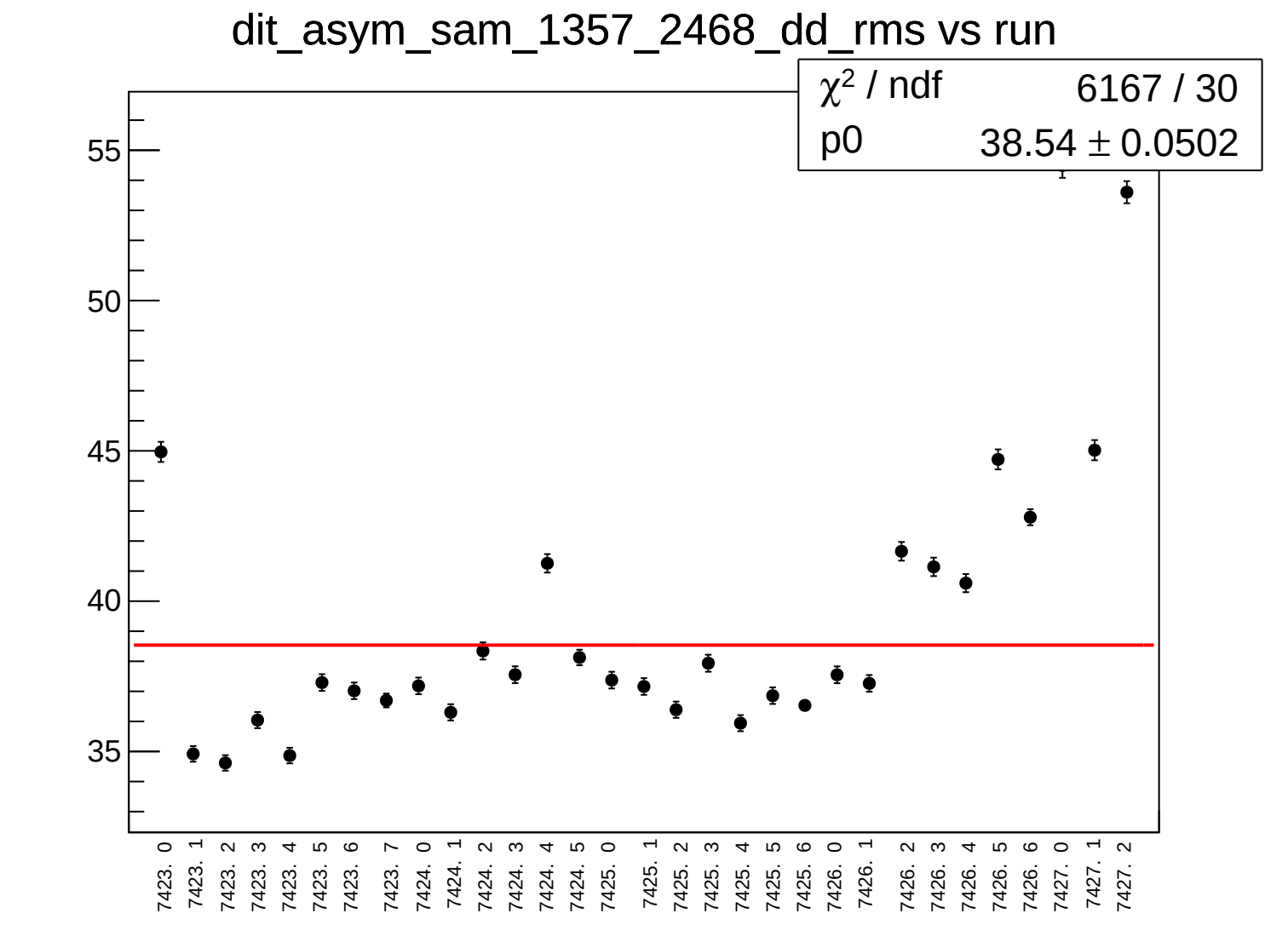

pull1D
Entries 31
Mean 0.00917
Std Dev 1.127
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

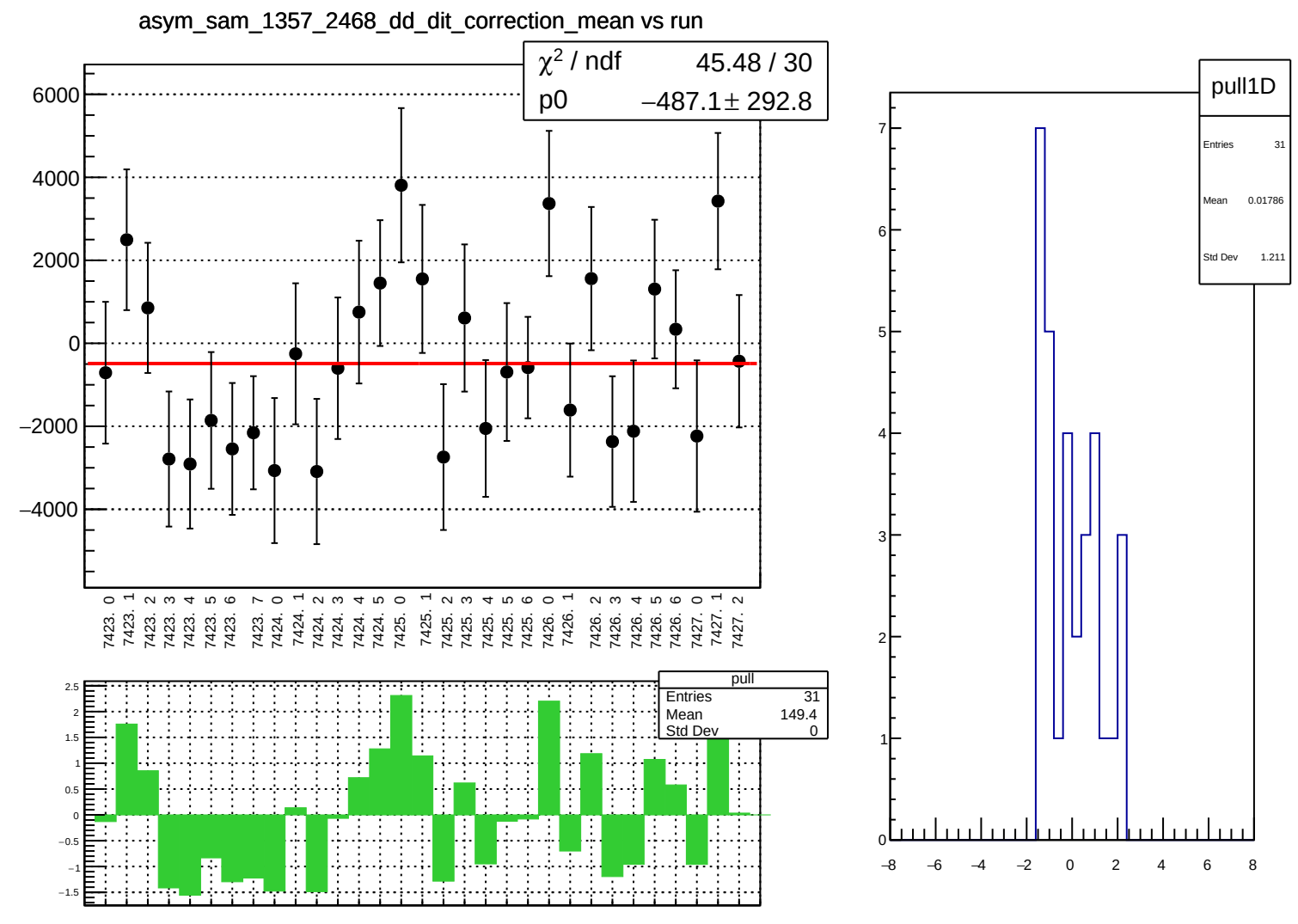

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1446 / 30
p0 26.54 ± 0.03444
33
32
31
30
29
28
27
26
25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

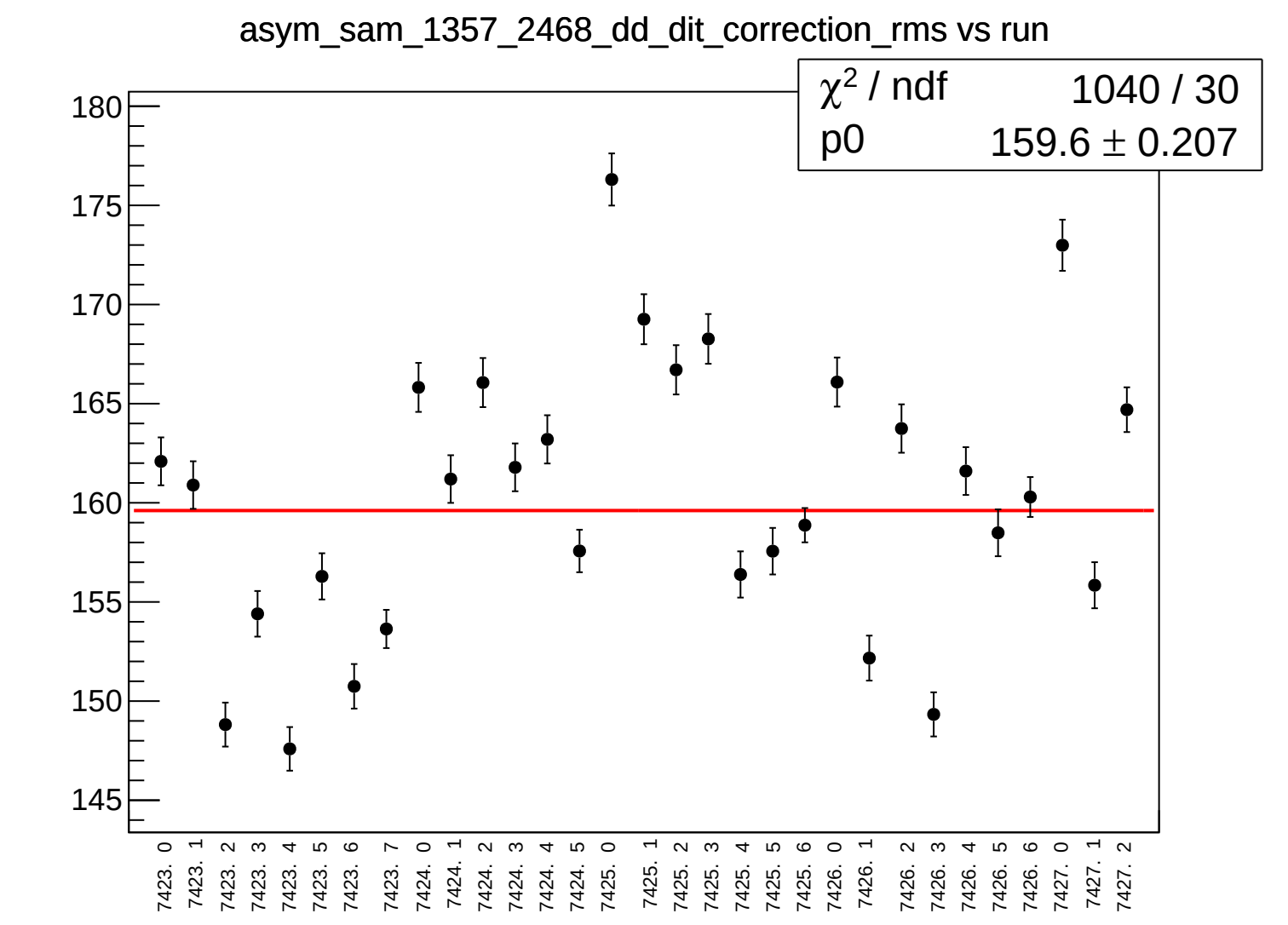

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.49 / 30
p0 −473 ± 299
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 228.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01108
Std Dev 1.157
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

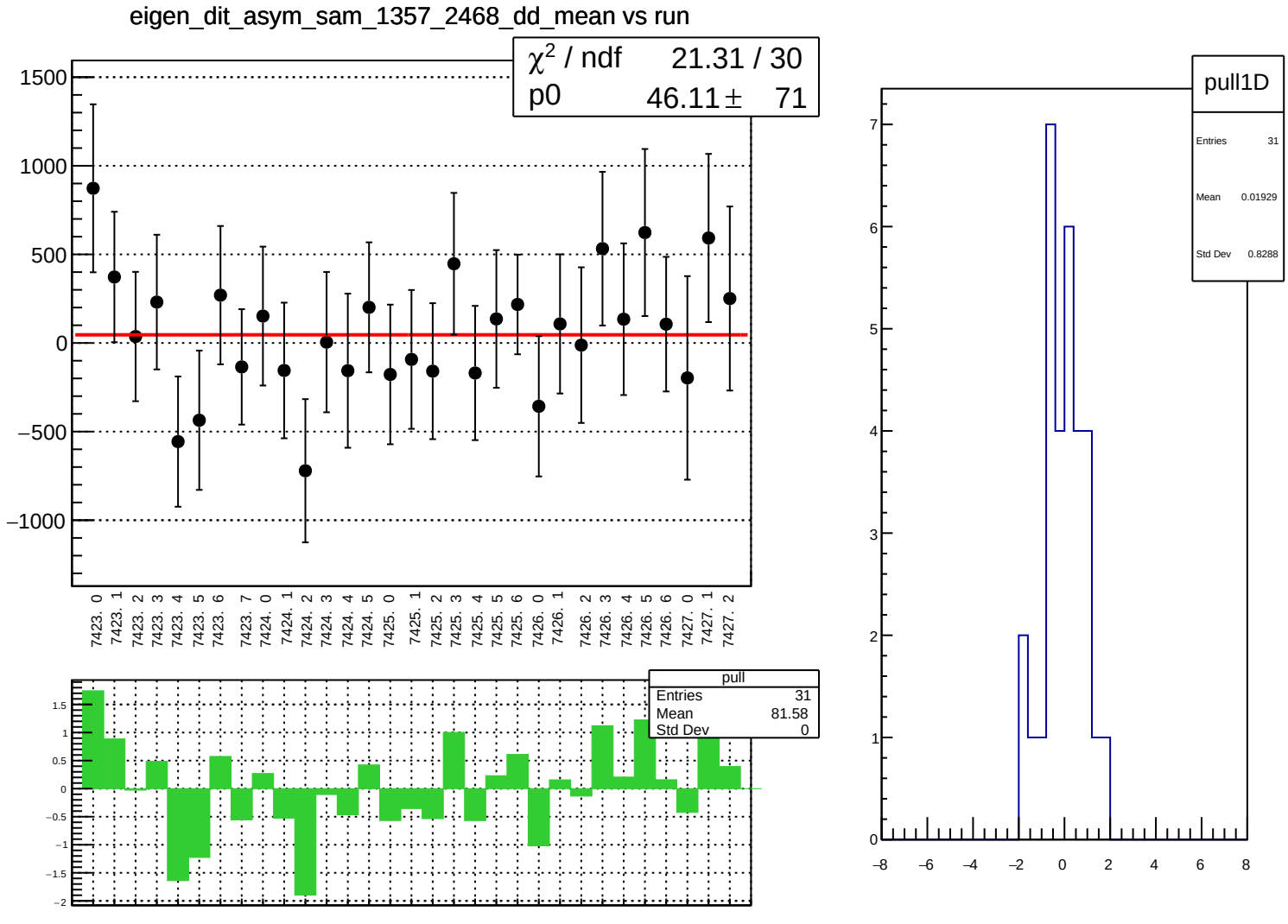

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1567 / 30
p0 163 ± 0.2115
185
180
175
170
165
160
155
150
145
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

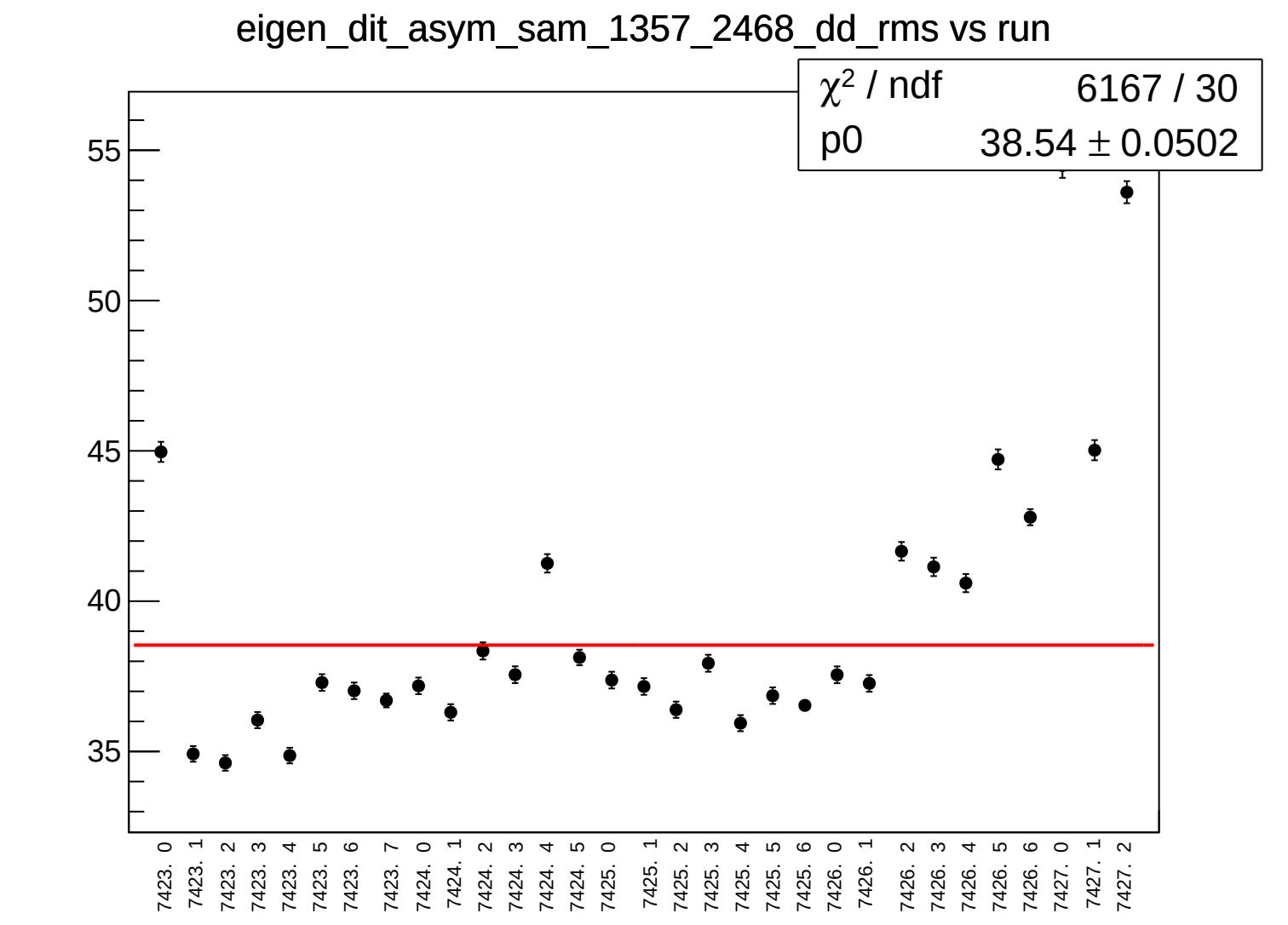

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 21.31 / 30
p0 46.1 ± 71
1500
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 81.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01929
Std Dev 0.8288
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

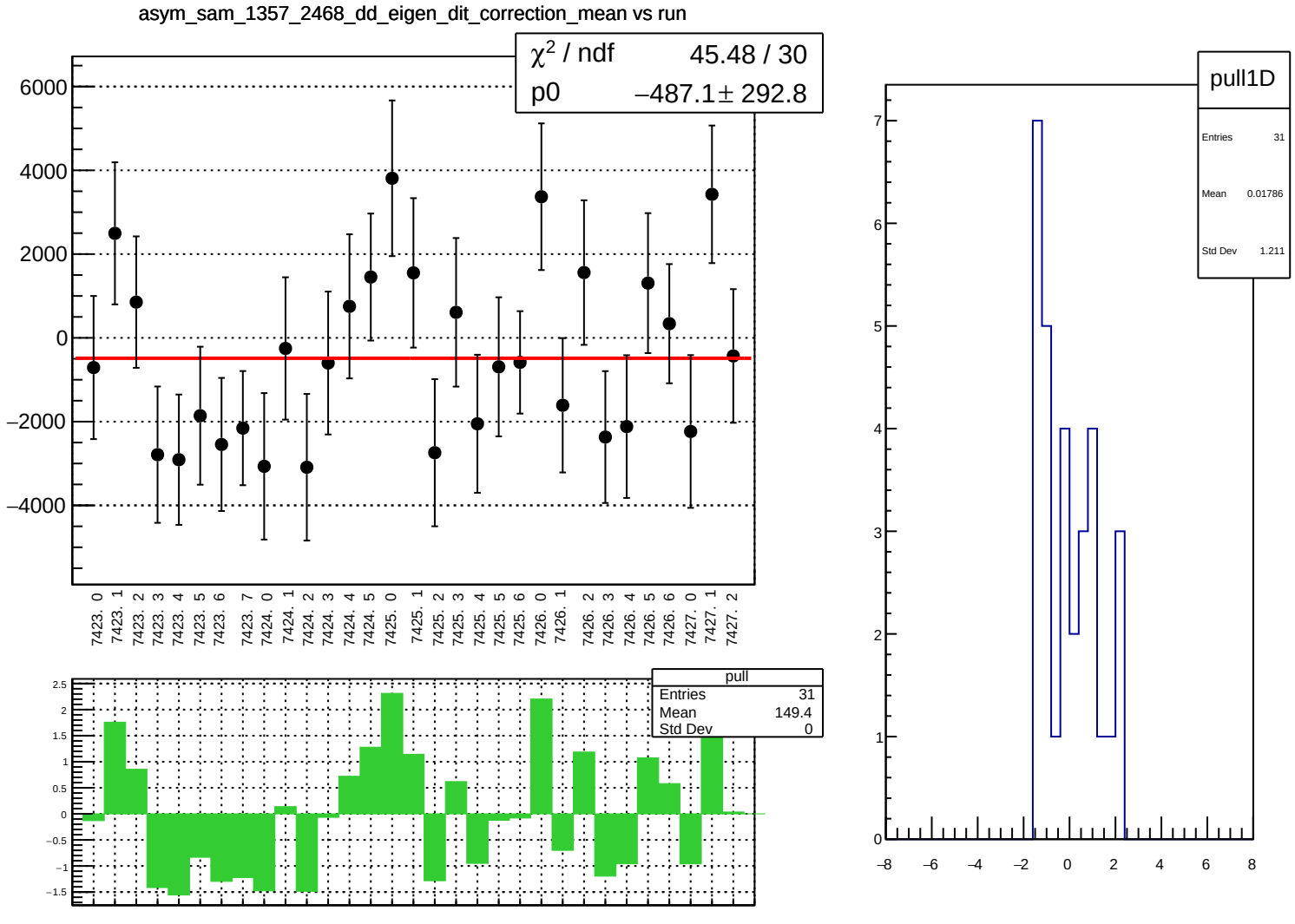

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6167 / 30
p0 38.54 ± 0.0502
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

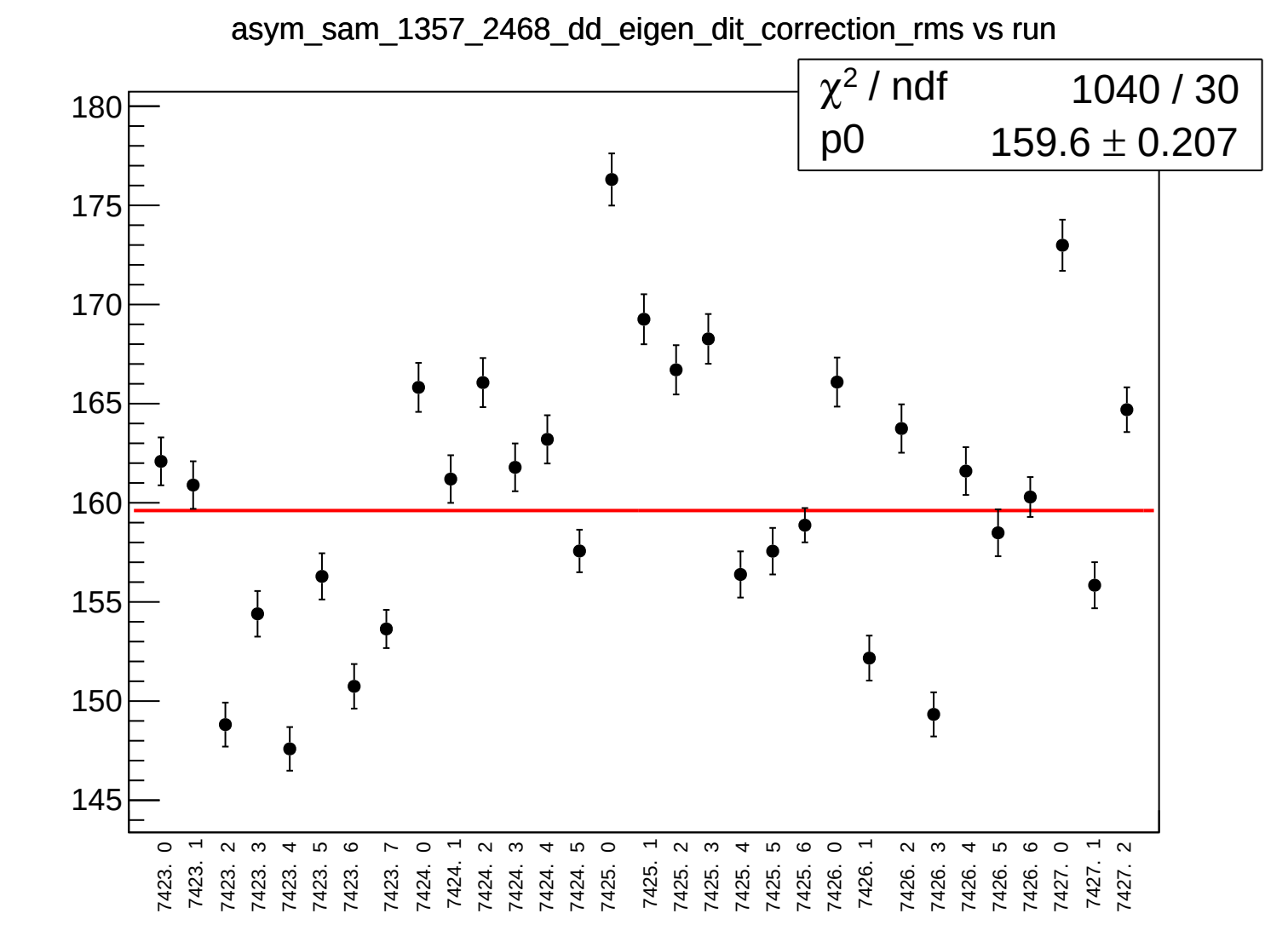

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 45.48 / 30
p0 −487.1± 292.8
6000
4000
2000
0
−2000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 149.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01786
Std Dev 1.211
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

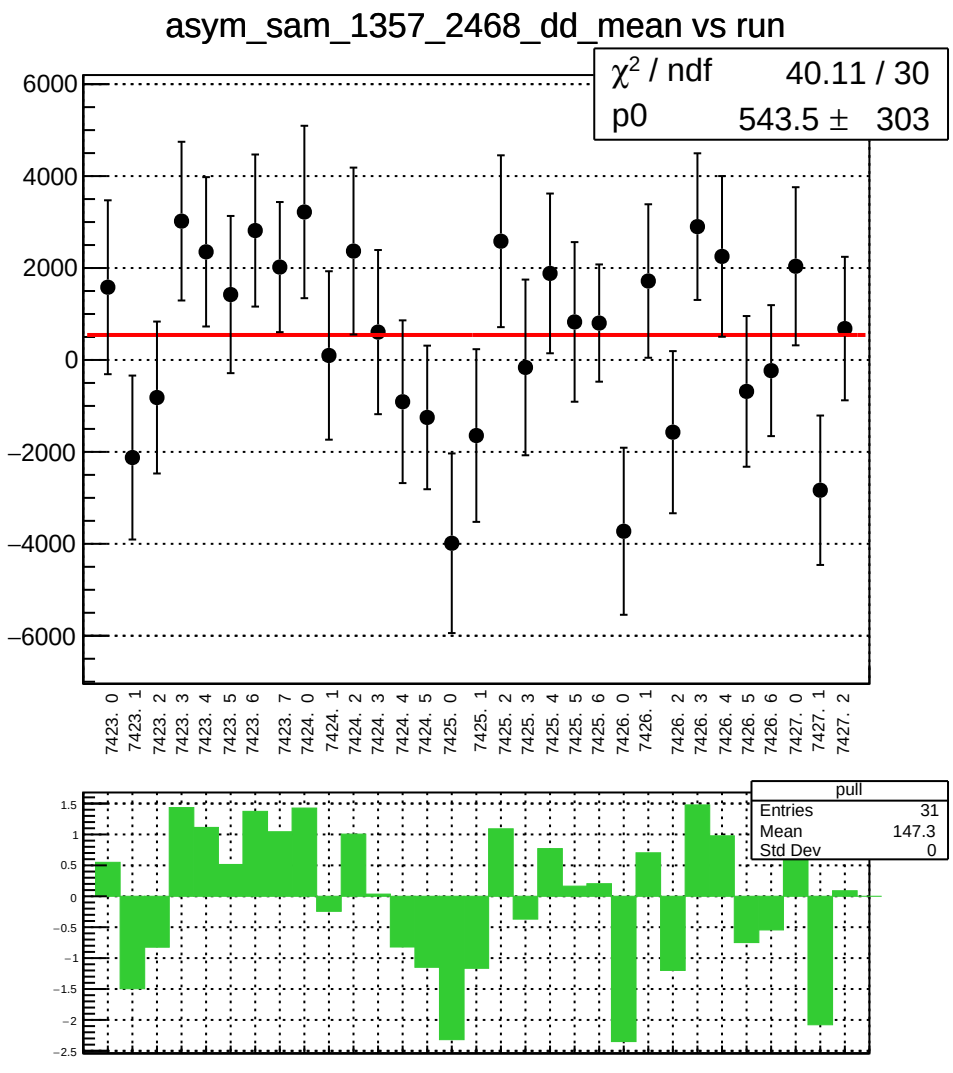

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1040 / 30
p0 159.6 ± 0.207
180
175
170
165
160
155
150
145
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

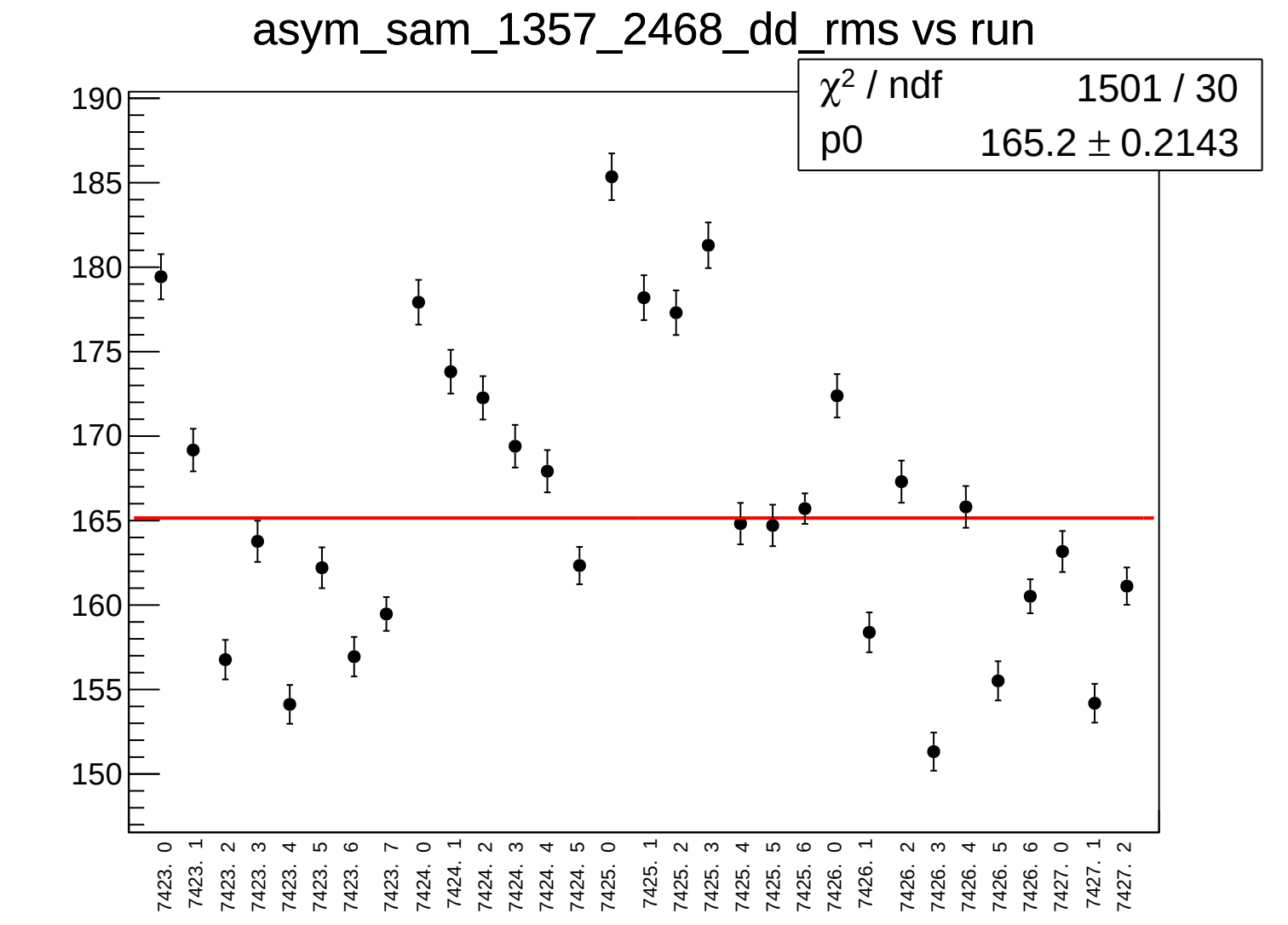

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 21.31 / 30
p0 46.11 ± 71
1500
1000
500
0
−500
−1000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 81.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01929
Std Dev 0.8288
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

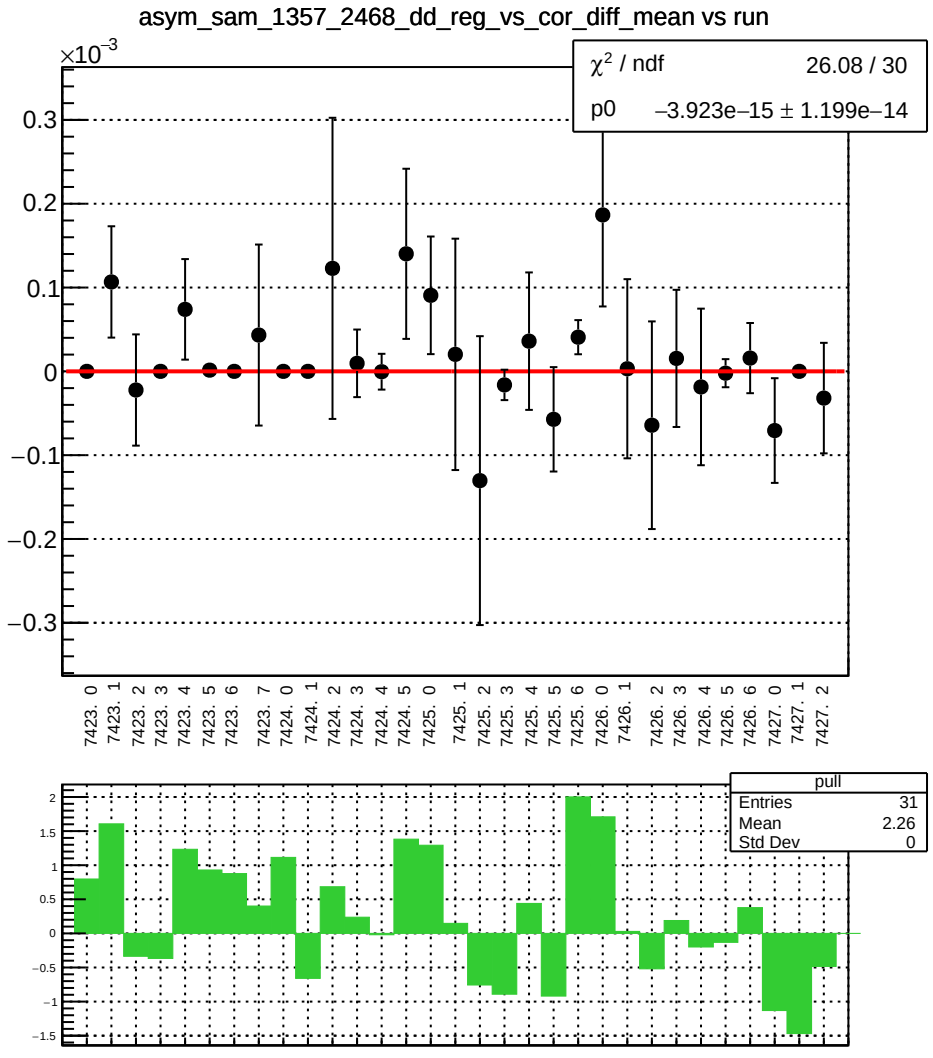

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6167 / 30
p0 38.54 ± 0.0502
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

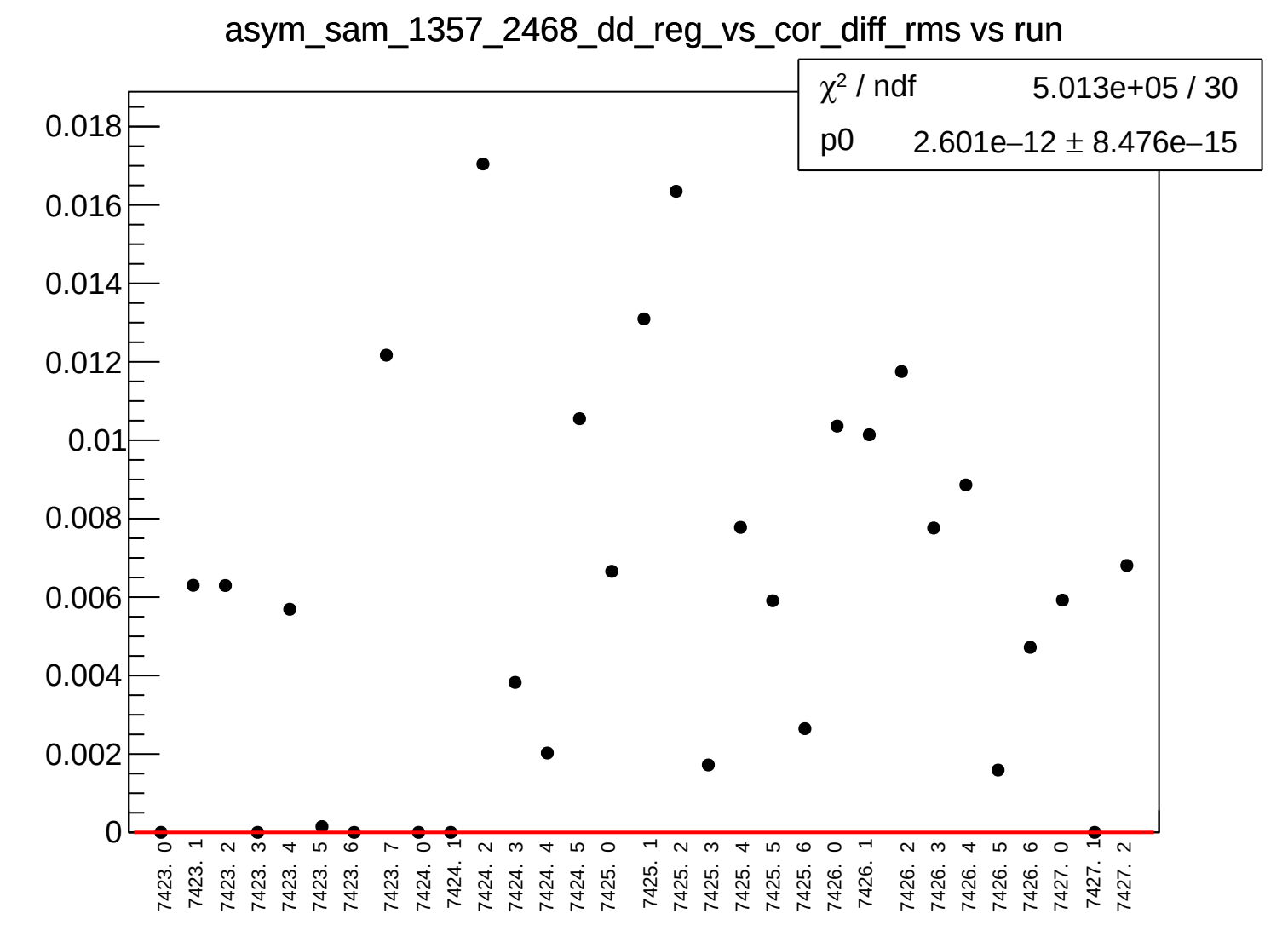

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 45.48 / 30
p0 −487.1± 292.8
6000
4000
2000
0
−2000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 149.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01786
Std Dev 1.211
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

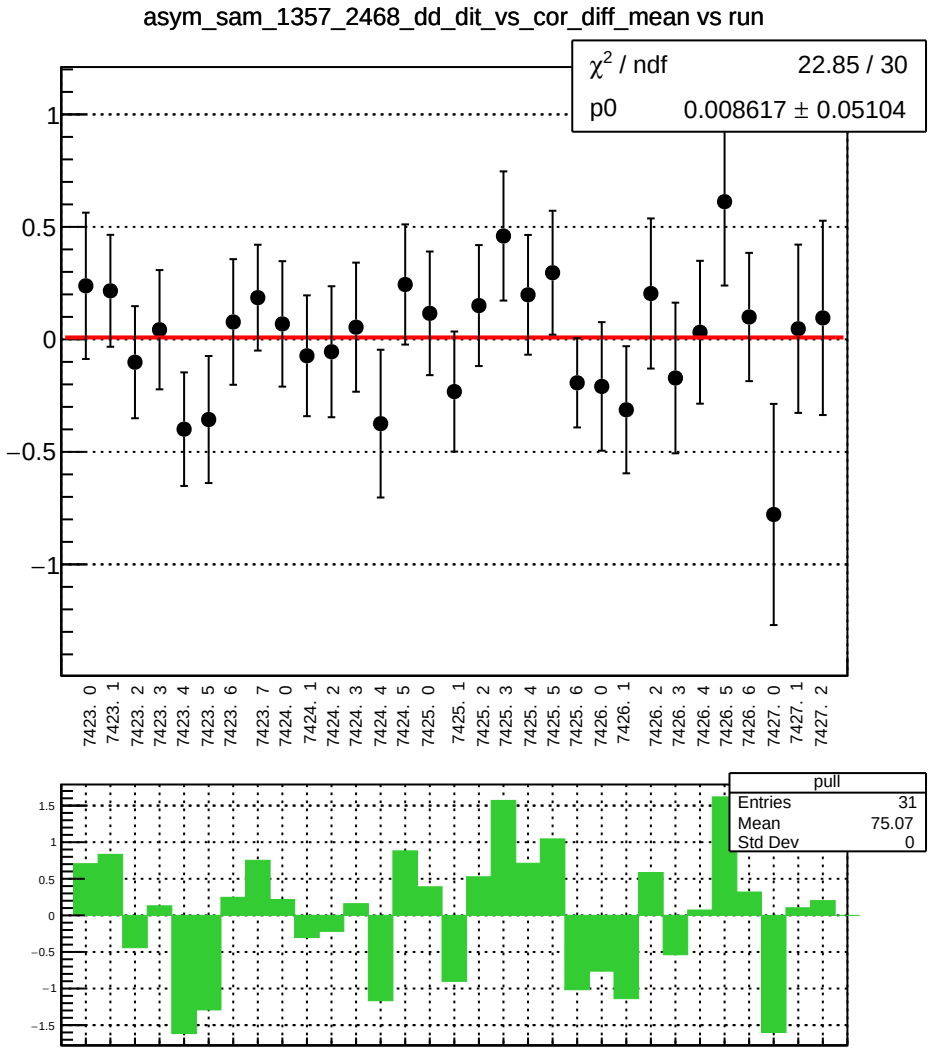

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1040 / 30
p0 159.6 ± 0.207
180
175
170
165
160
155
150
145
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

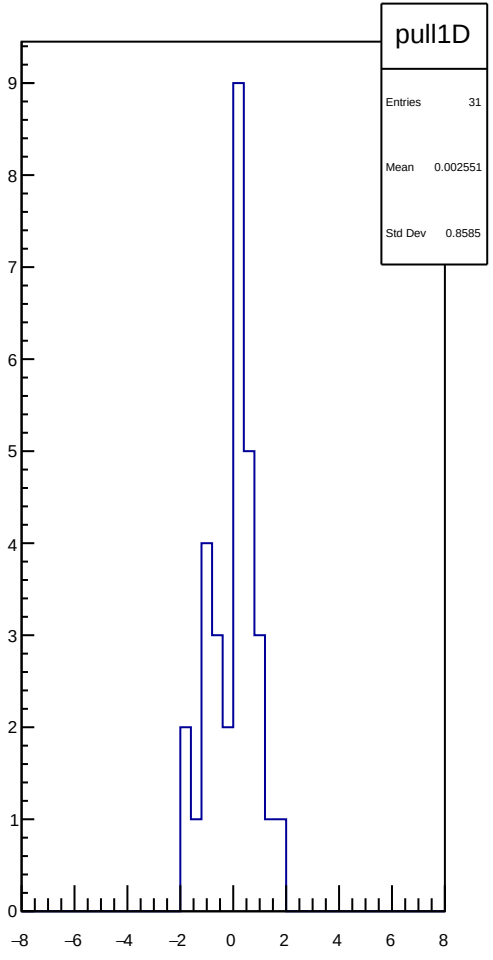

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 40.11 / 30
p0 543.5 ± 303
6000
4000
2000
0
−2000
−4000
−6000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 147.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01495
Std Dev 1.137
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

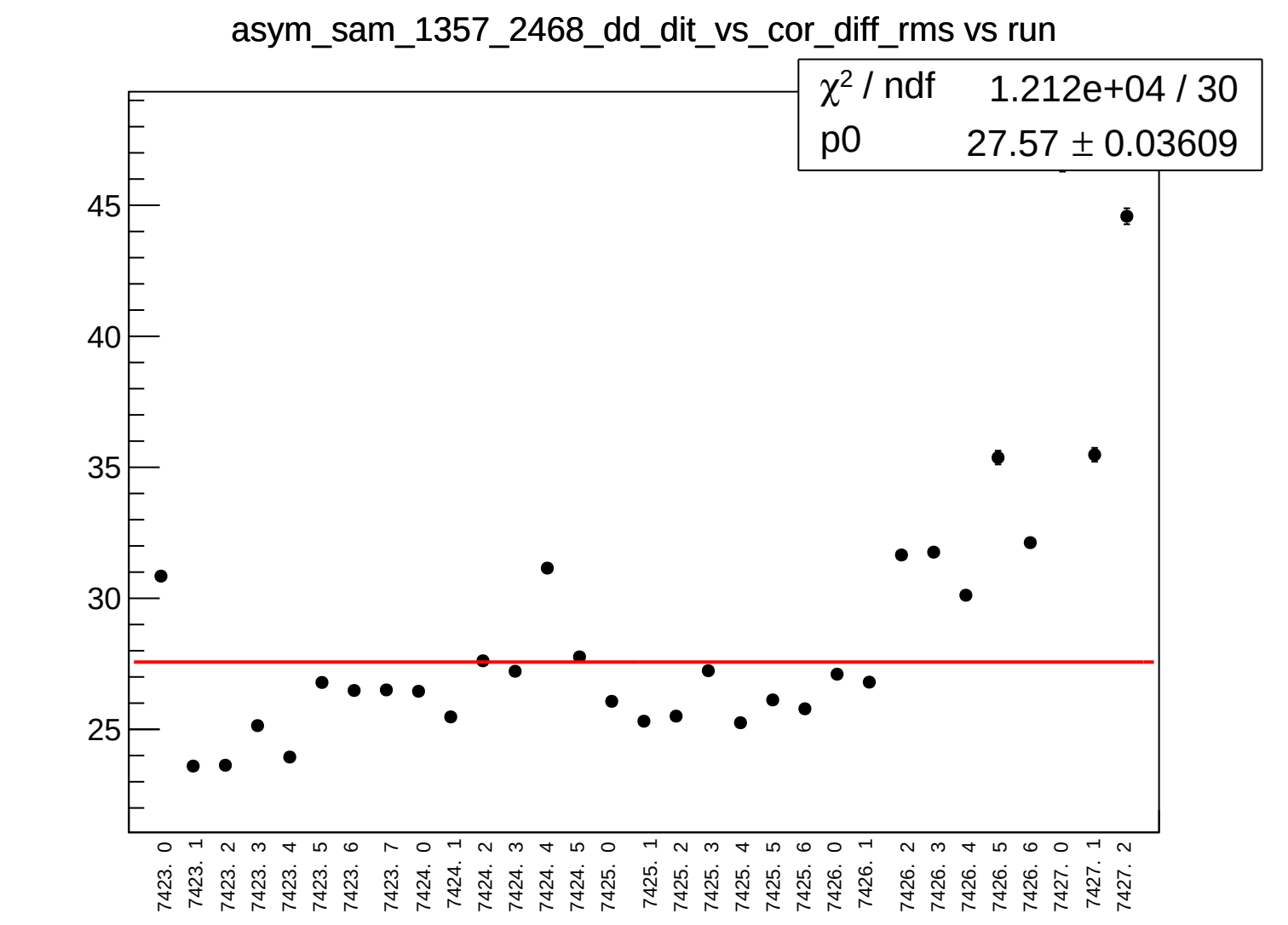

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1501 / 30
p0 165.2 ± 0.2143
190
185
180
175
170
165
160
155
150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

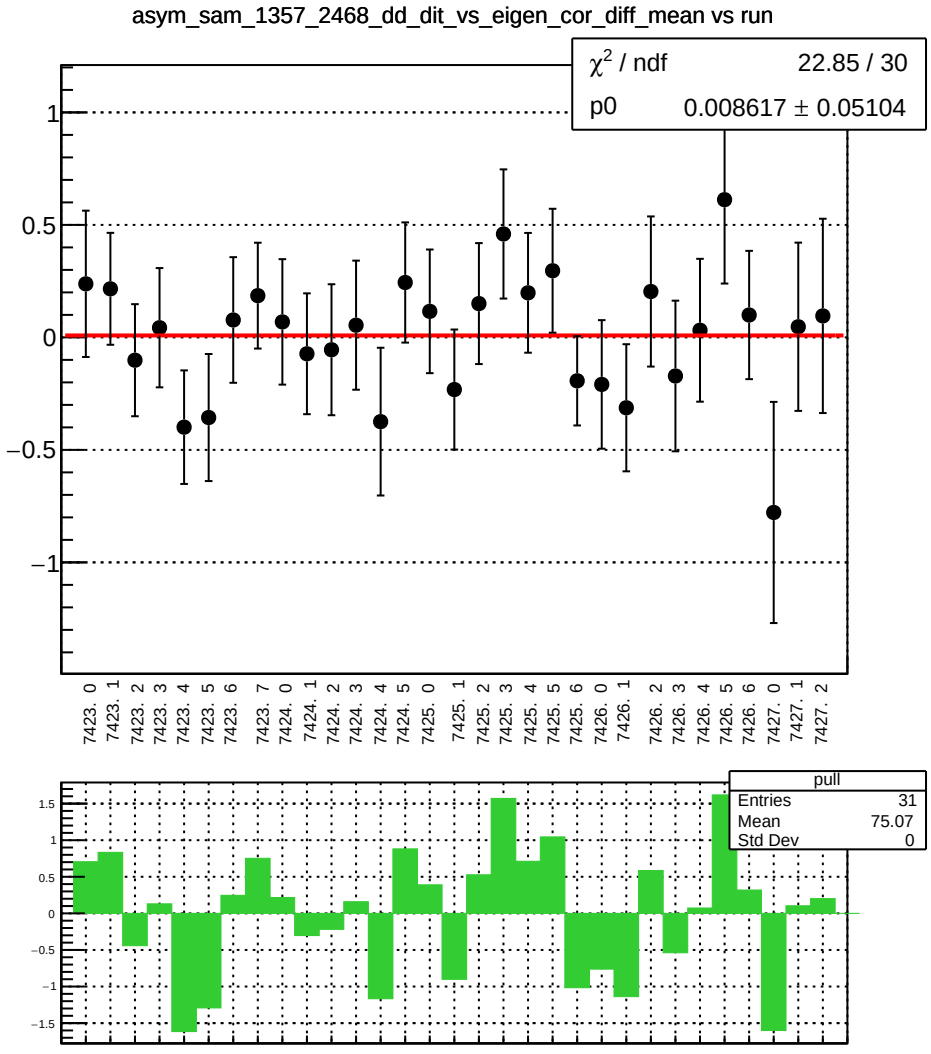

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 26.08 / 30
p0 −3.923e−15 ± 1.199e−14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 2.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.2441
Std Dev 0.8842
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

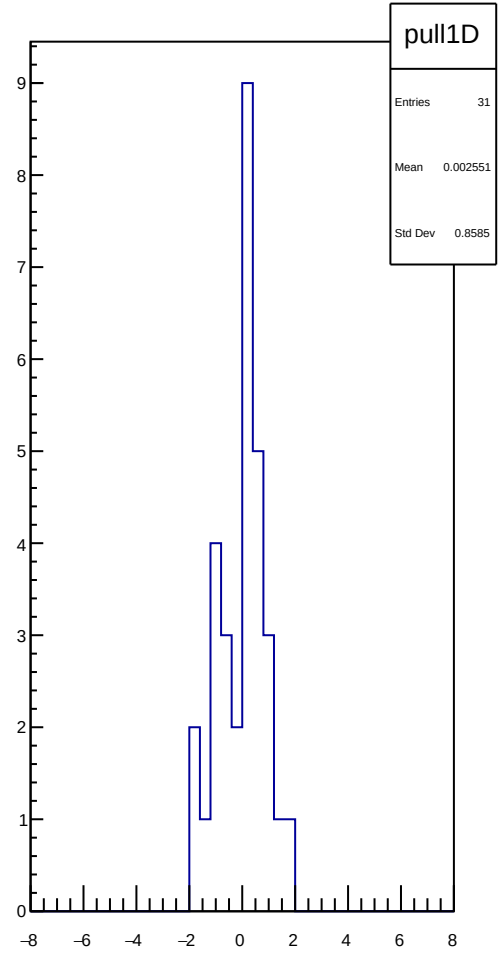

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.013e+05 / 30
p0 2.601e−12 ± 8.476e−15
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

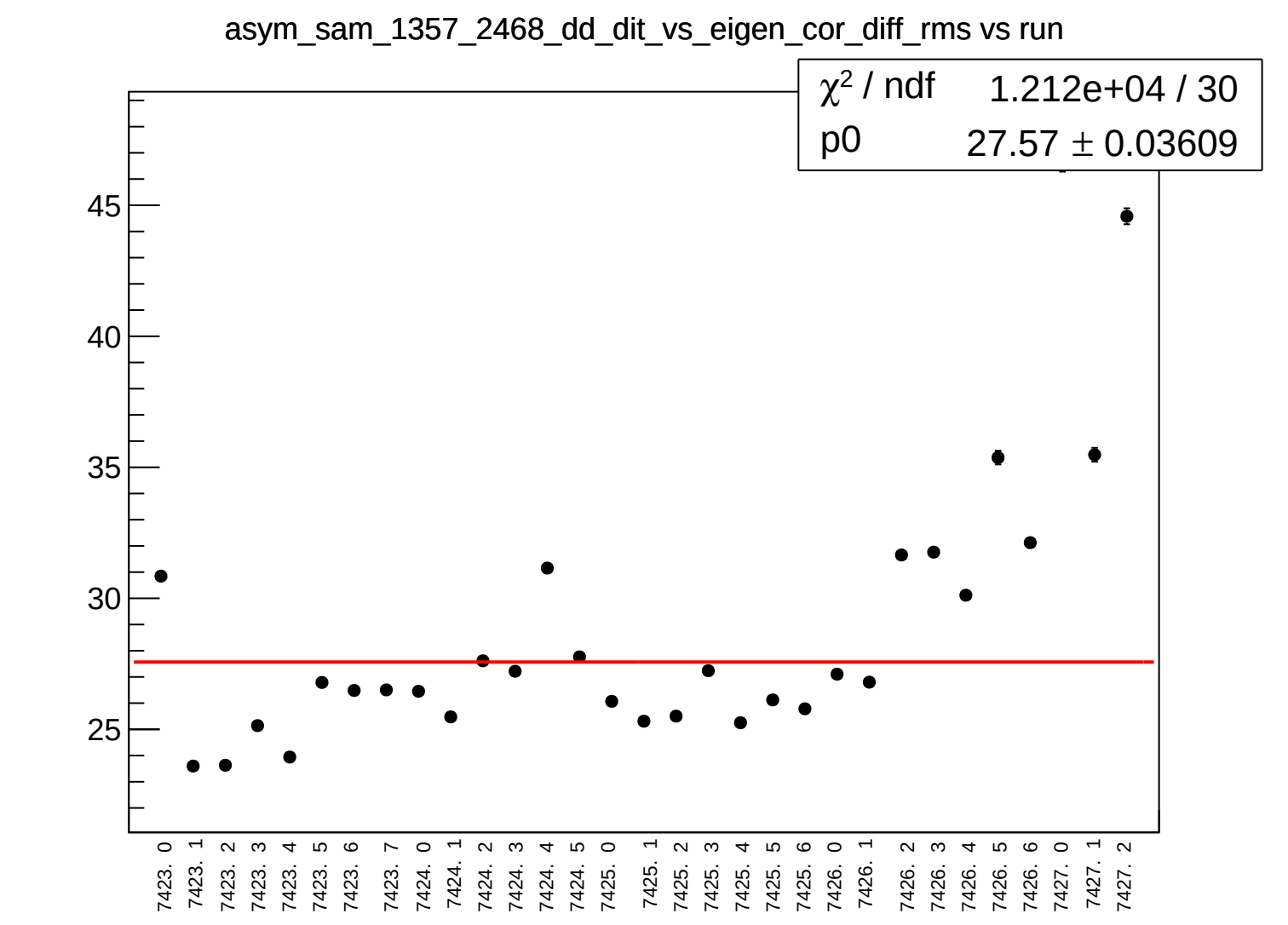

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 22.85 / 30
p0 0.008617 ± 0.05104
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 75.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

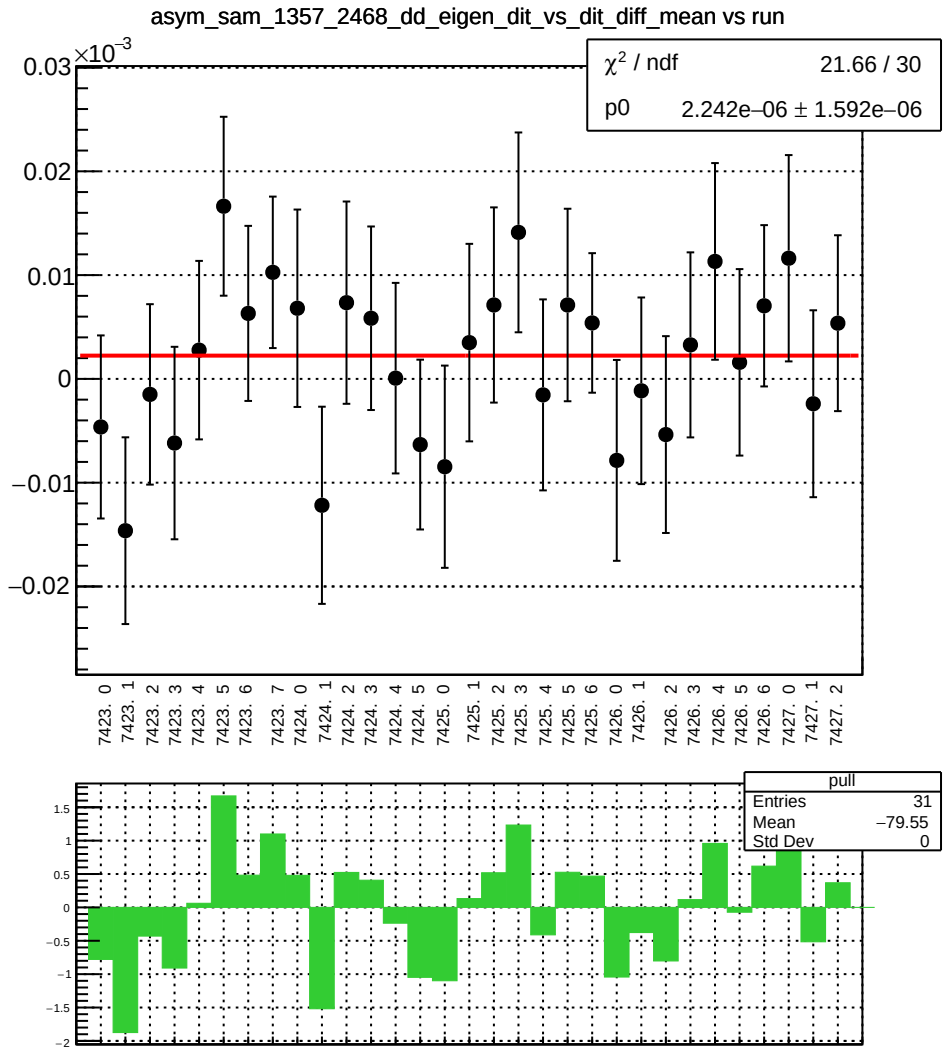

pull1D
Entries 31
Mean 0.002551
Std Dev 0.8585
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

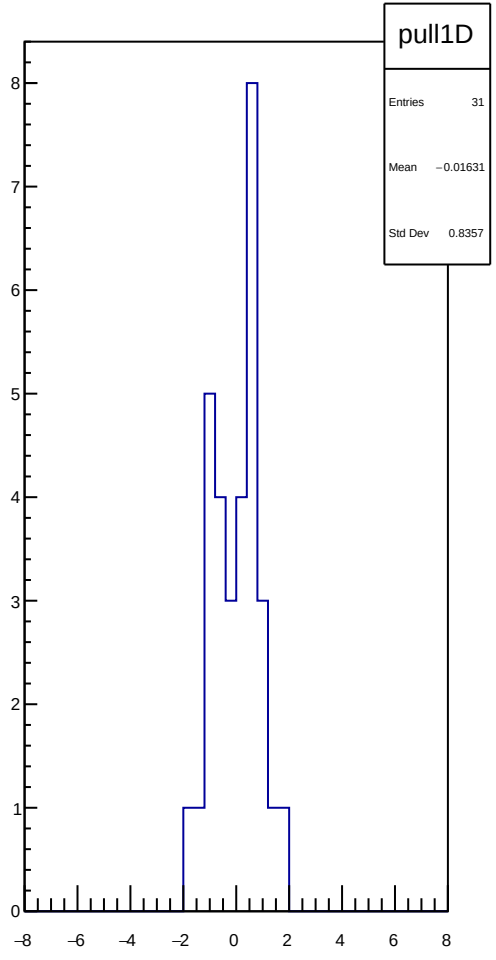

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.212e+04 / 30
p0 27.57 ± 0.03609
45
40
35
30
25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

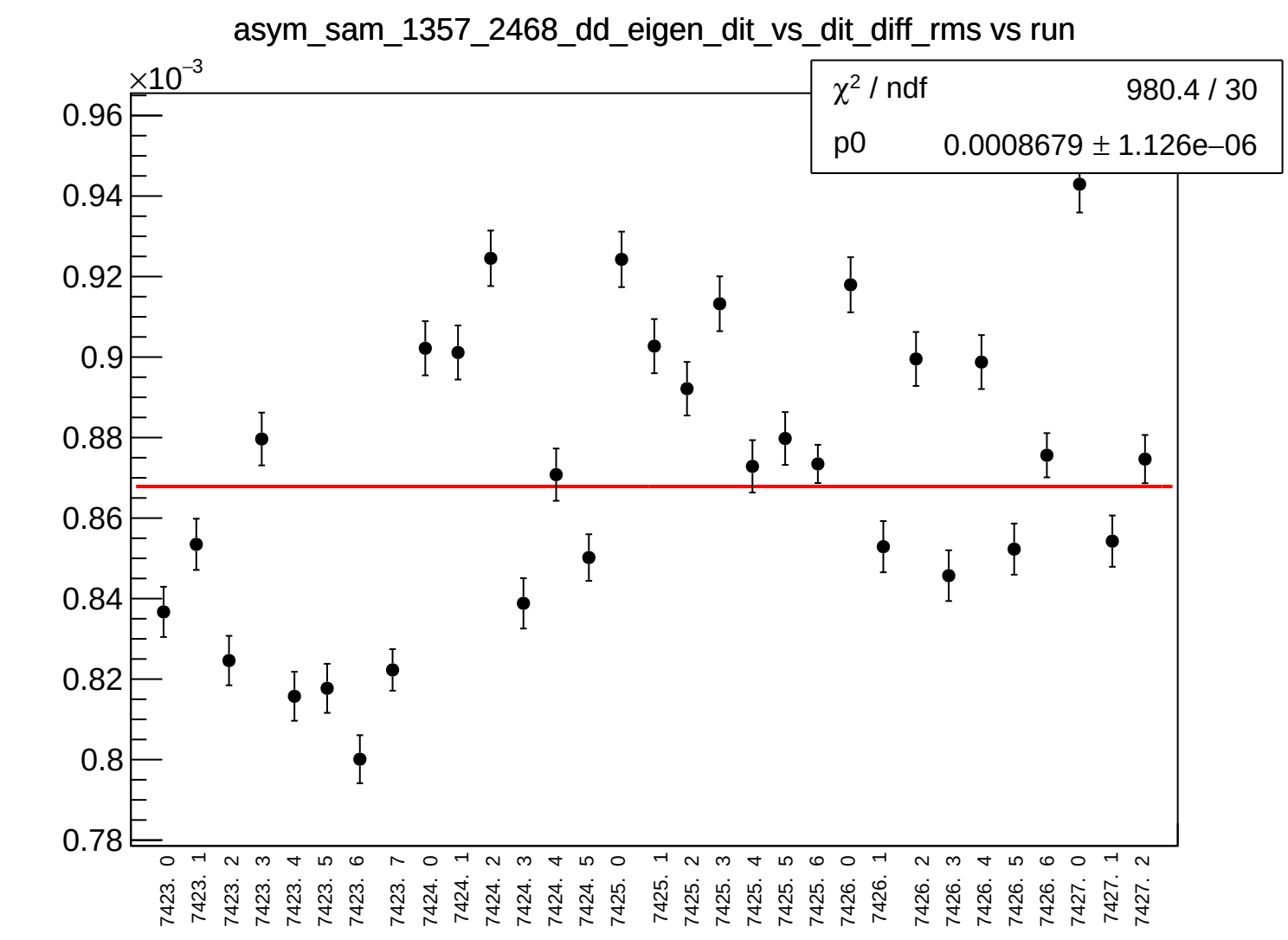

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.85 / 30
p0 0.008617 ± 0.05104
pull
Entries 31
Mean 75.07
Std Dev 0

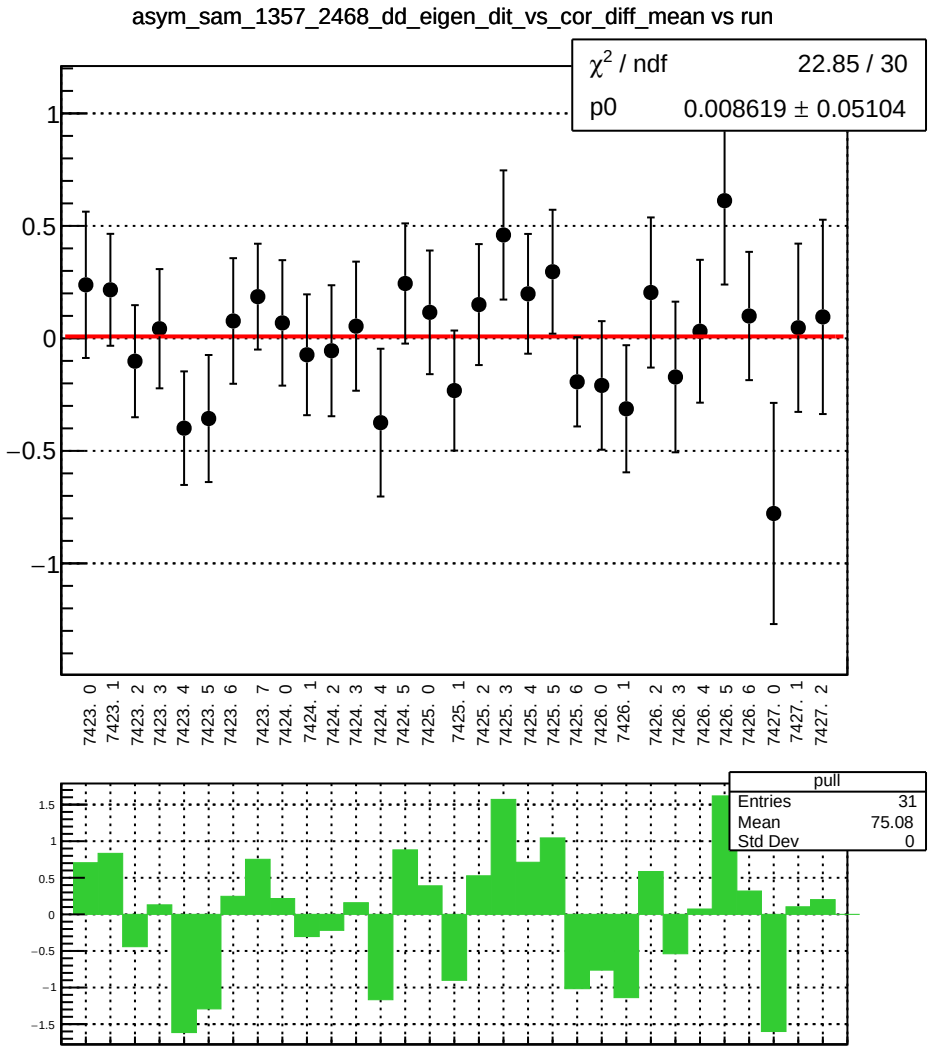

pull1D
Entries 31
Mean 0.002551
Std Dev 0.8585

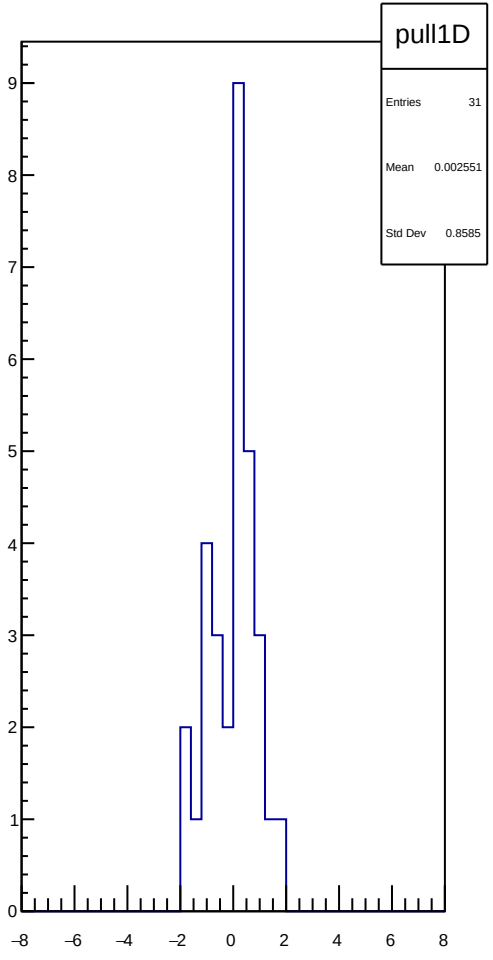

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.212e+04 / 30
p0 27.57 ± 0.03609
45
40
35
30
25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

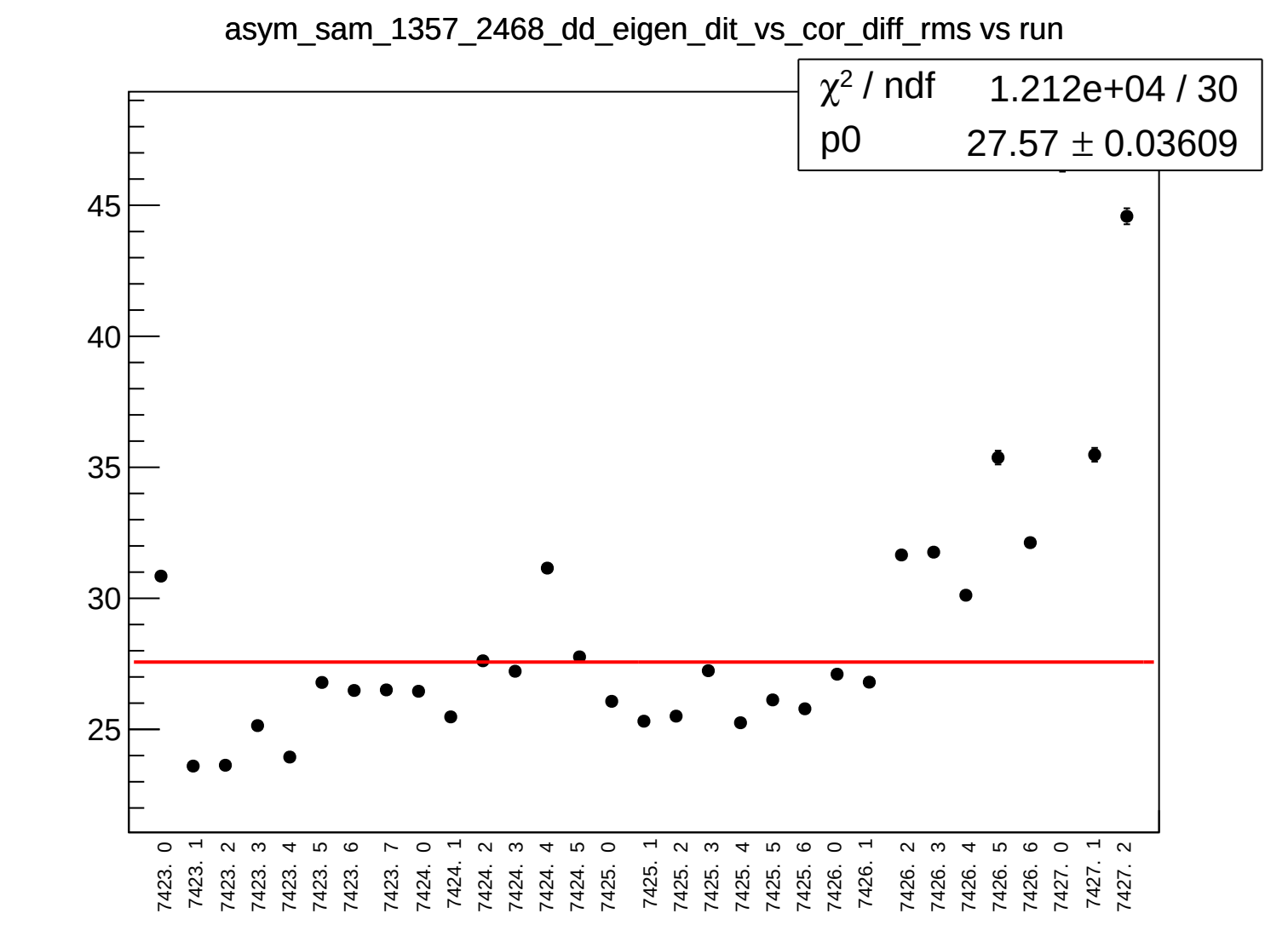

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 21.66 / 30
p0 2.242e−06 ± 1.592e−06
pull
Entries 31
Mean −79.55
Std Dev 0

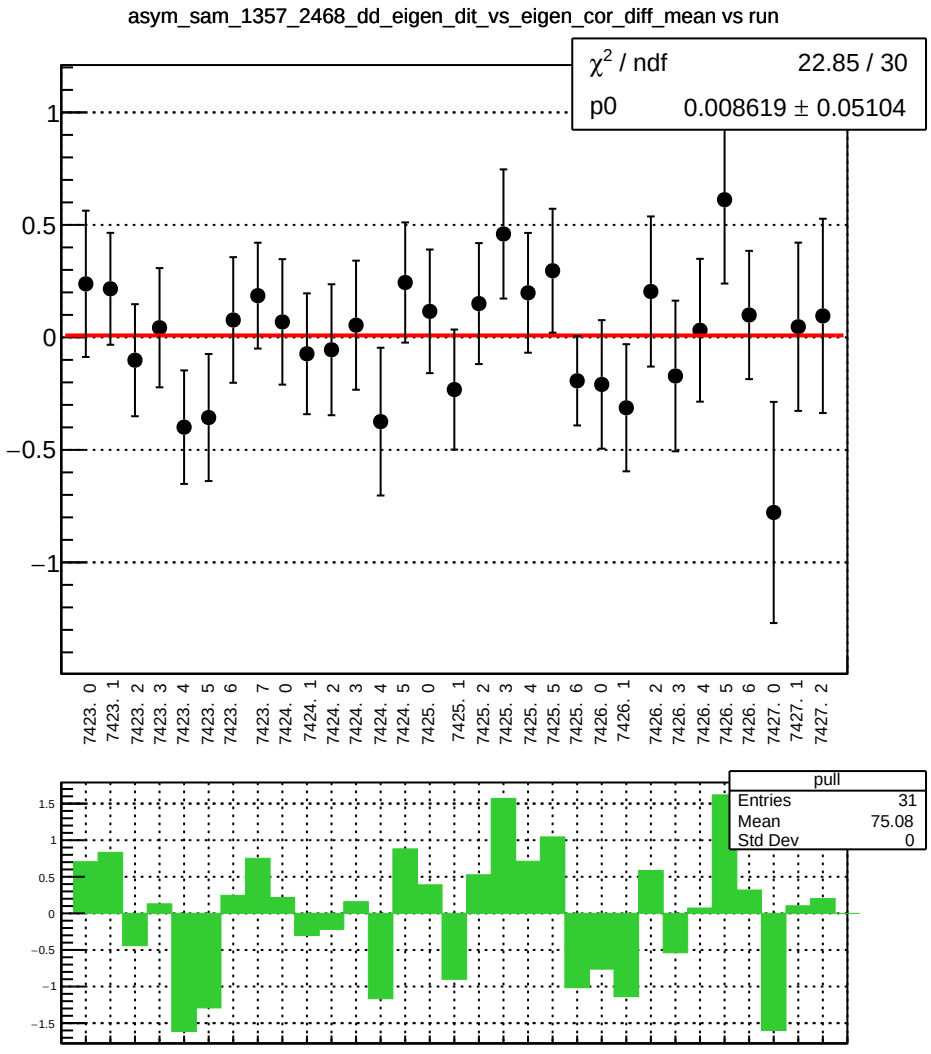

pull1D
Entries 31
Mean −0.01631
Std Dev 0.8357

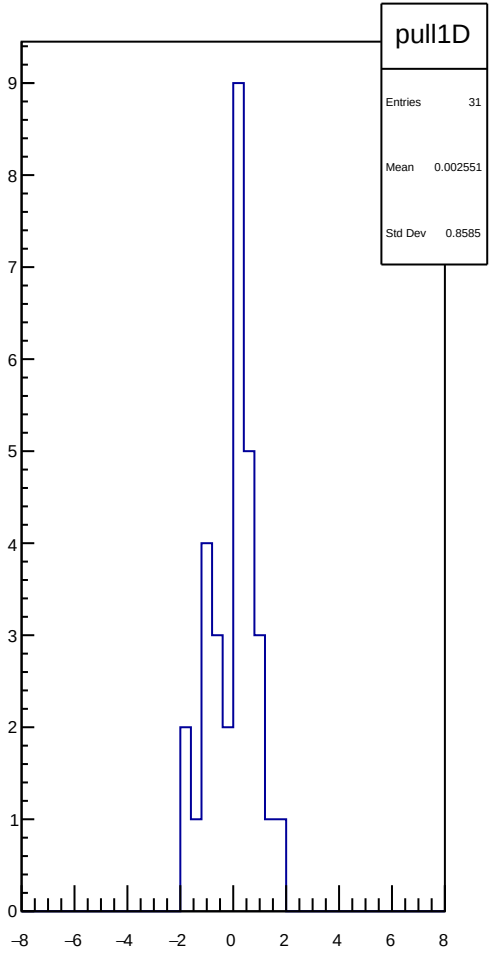

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 980.4 / 30
p0 0.0008679 ± 1.126e−06
0.96
0.94
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

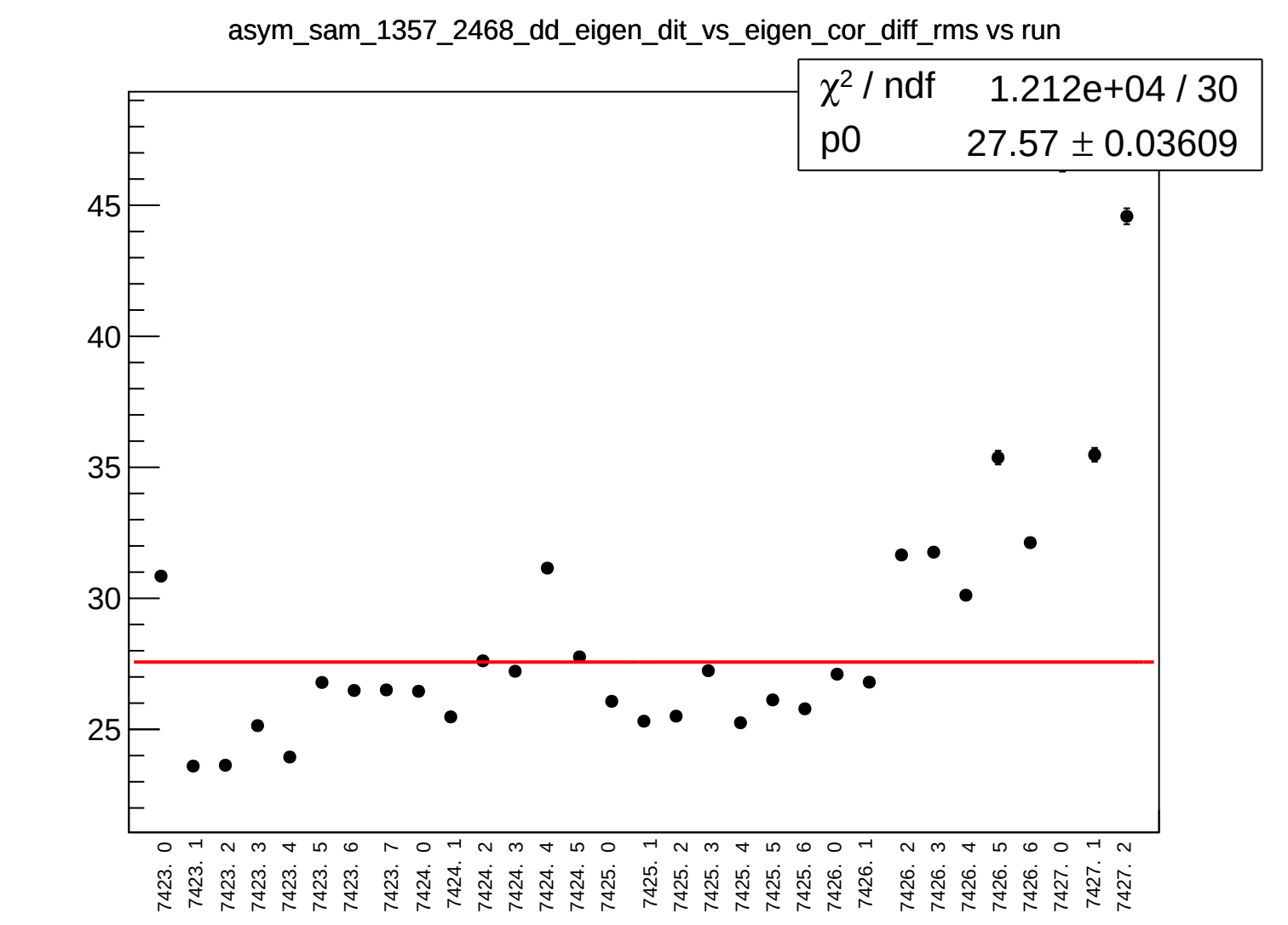

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.85 / 30
p0 0.008619 ± 0.05104
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 75.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

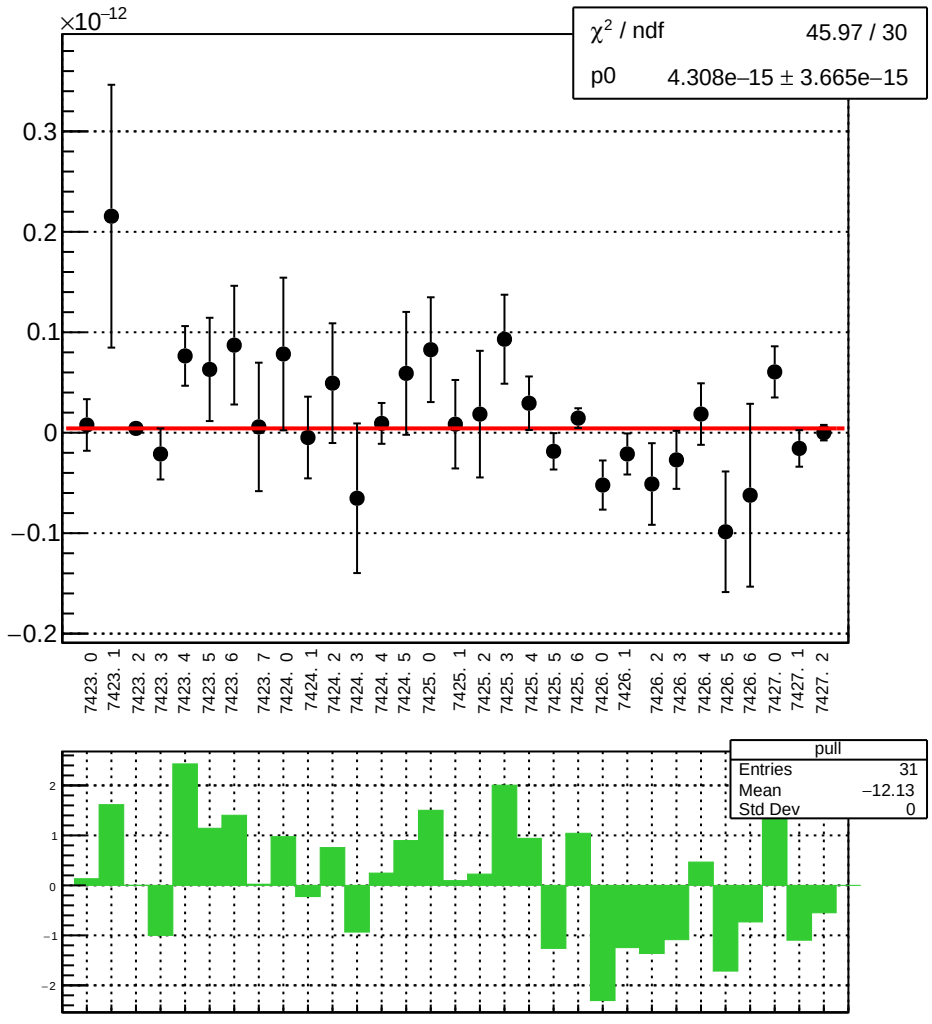

pull1D
Entries 31
Mean 0.002551
Std Dev 0.8585
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

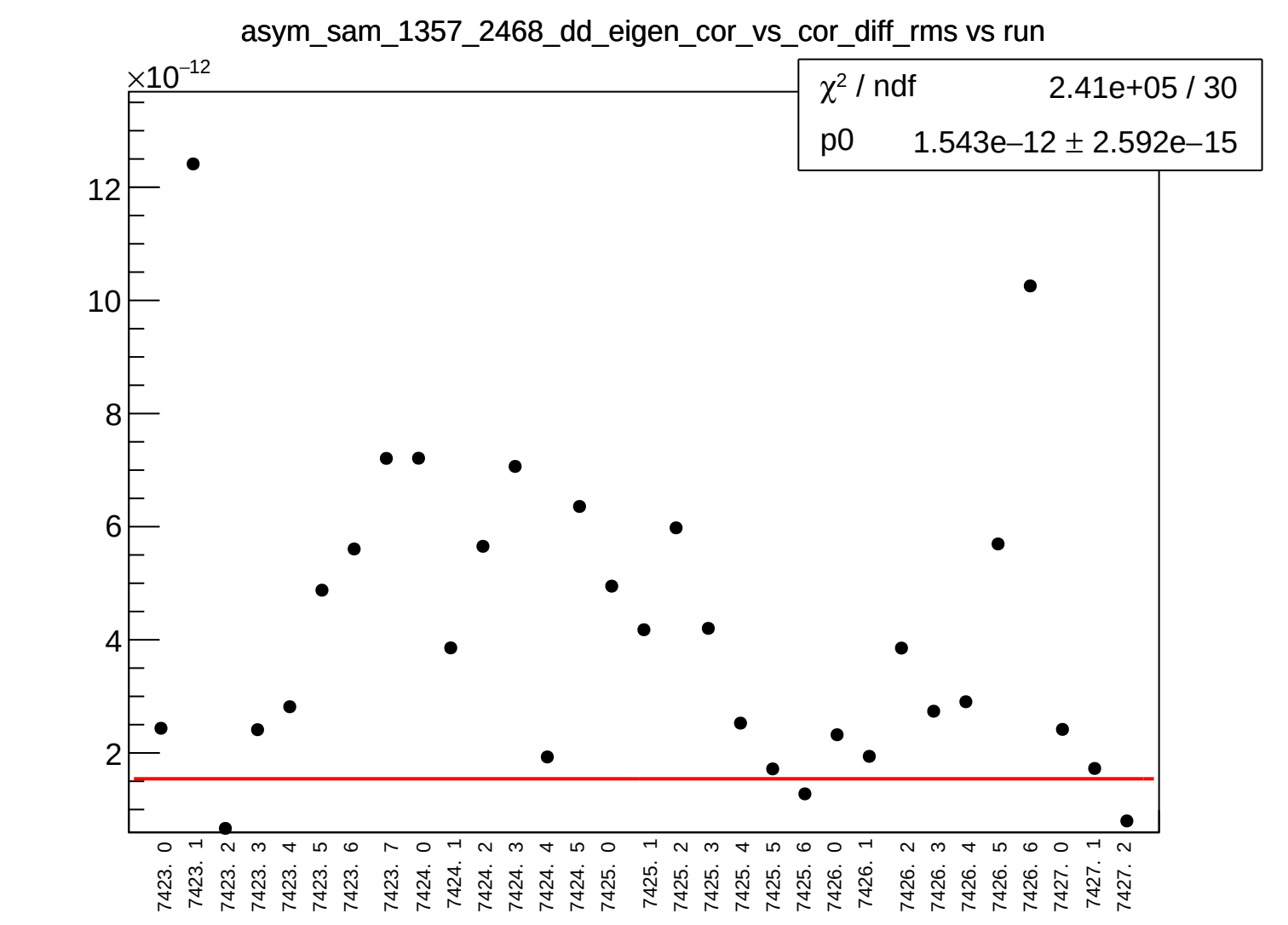

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.212e+04 / 30
p0 27.57 ± 0.03609
45
40
35
30
25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

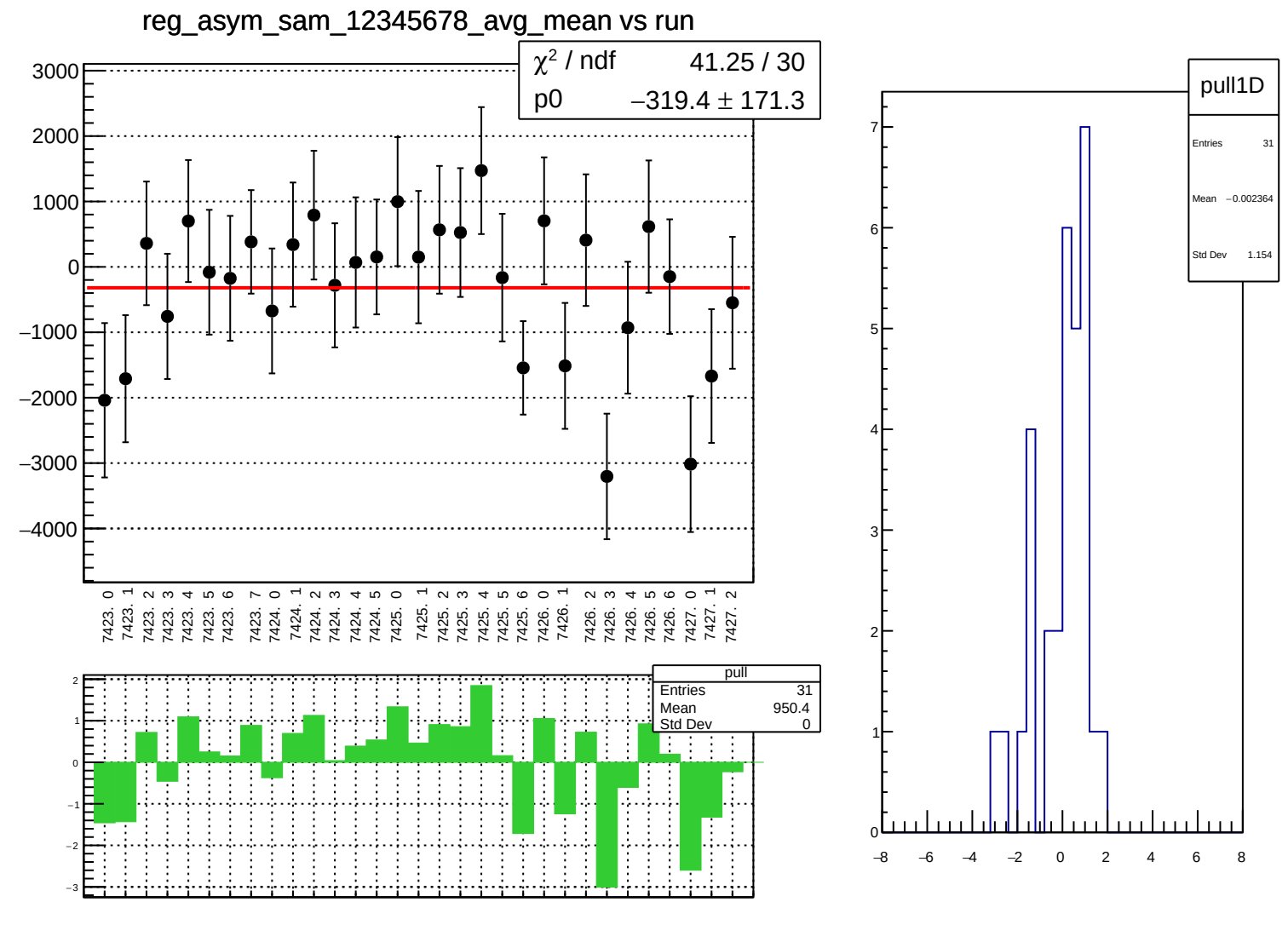

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.85 / 30
p0 0.008619 ± 0.05104
1
0.5
0
−0.5
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 75.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

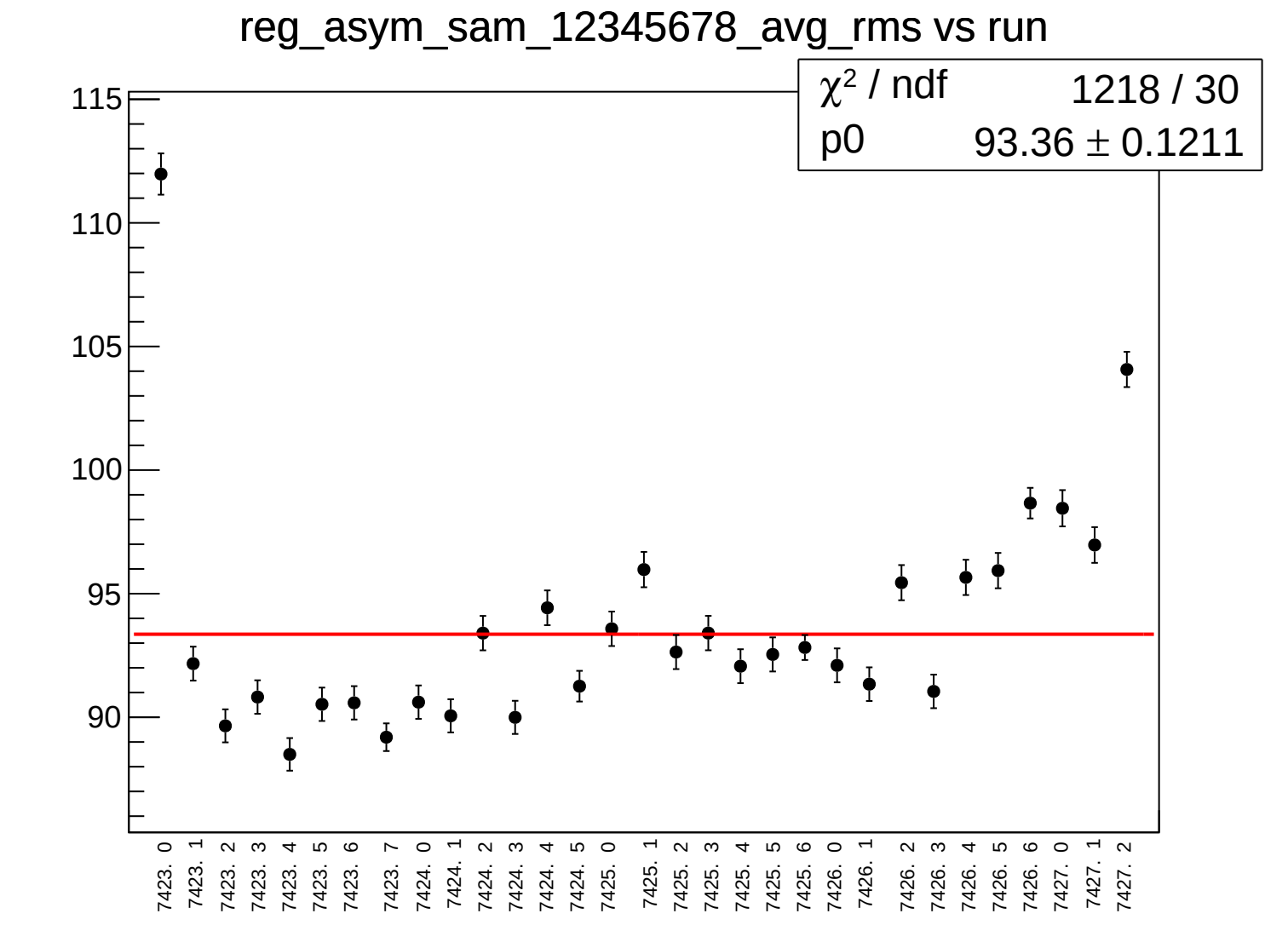

pull1D
Entries 31
Mean 0.002551
Std Dev 0.8585
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

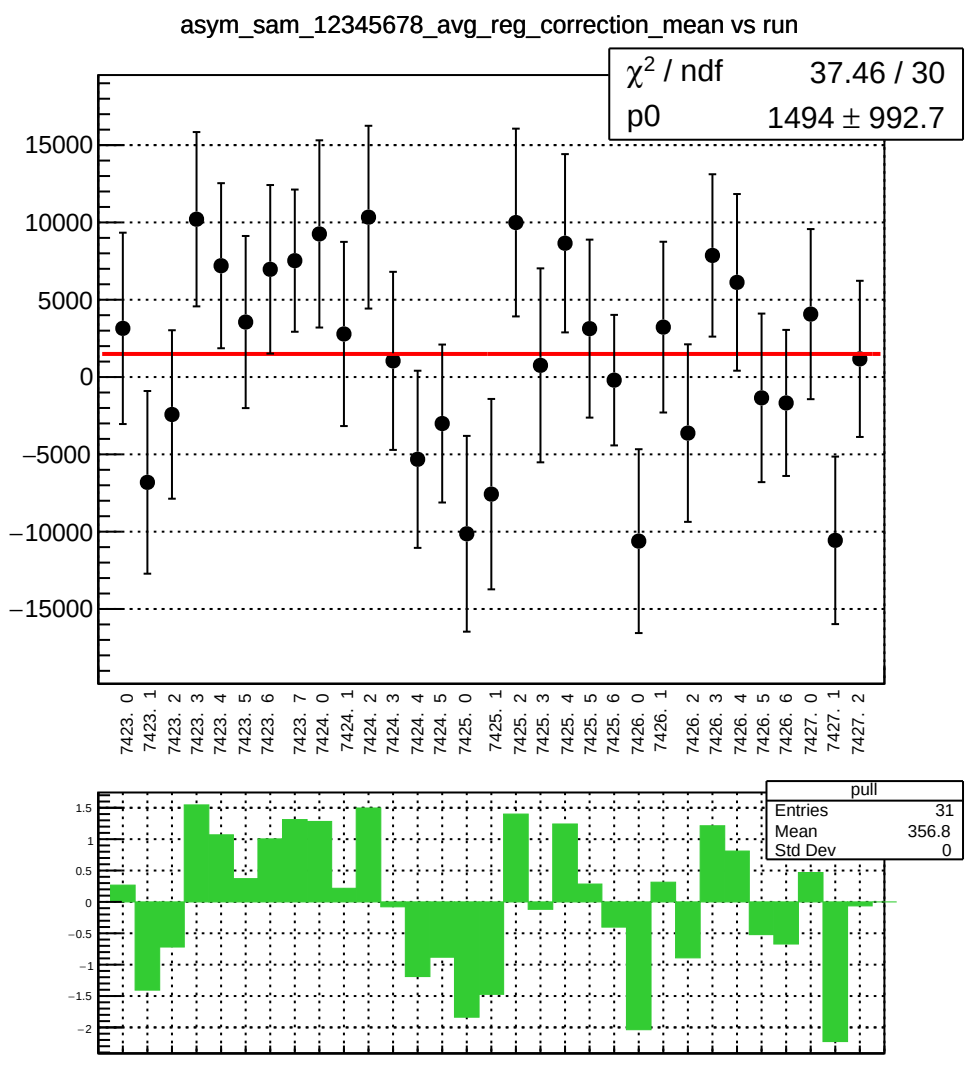

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.212e+04 / 30
p0 27.57 ± 0.03609
45
40
35
30
25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

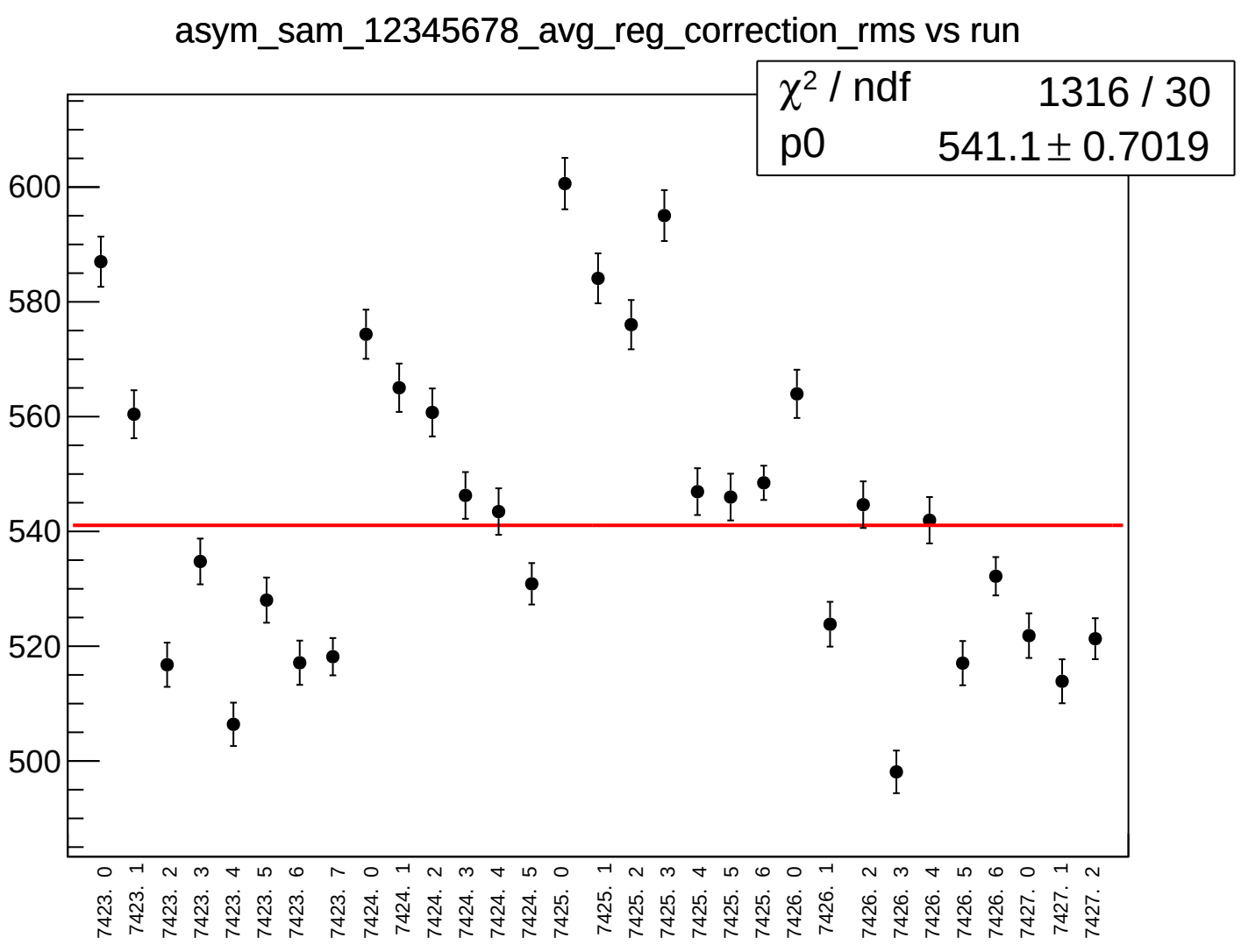

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.97 / 30
p0 4.308e−15 ± 3.665e−15
0.3
0.2
0.1
0
−0.1
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −12.13
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1482
Std Dev 1.209
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

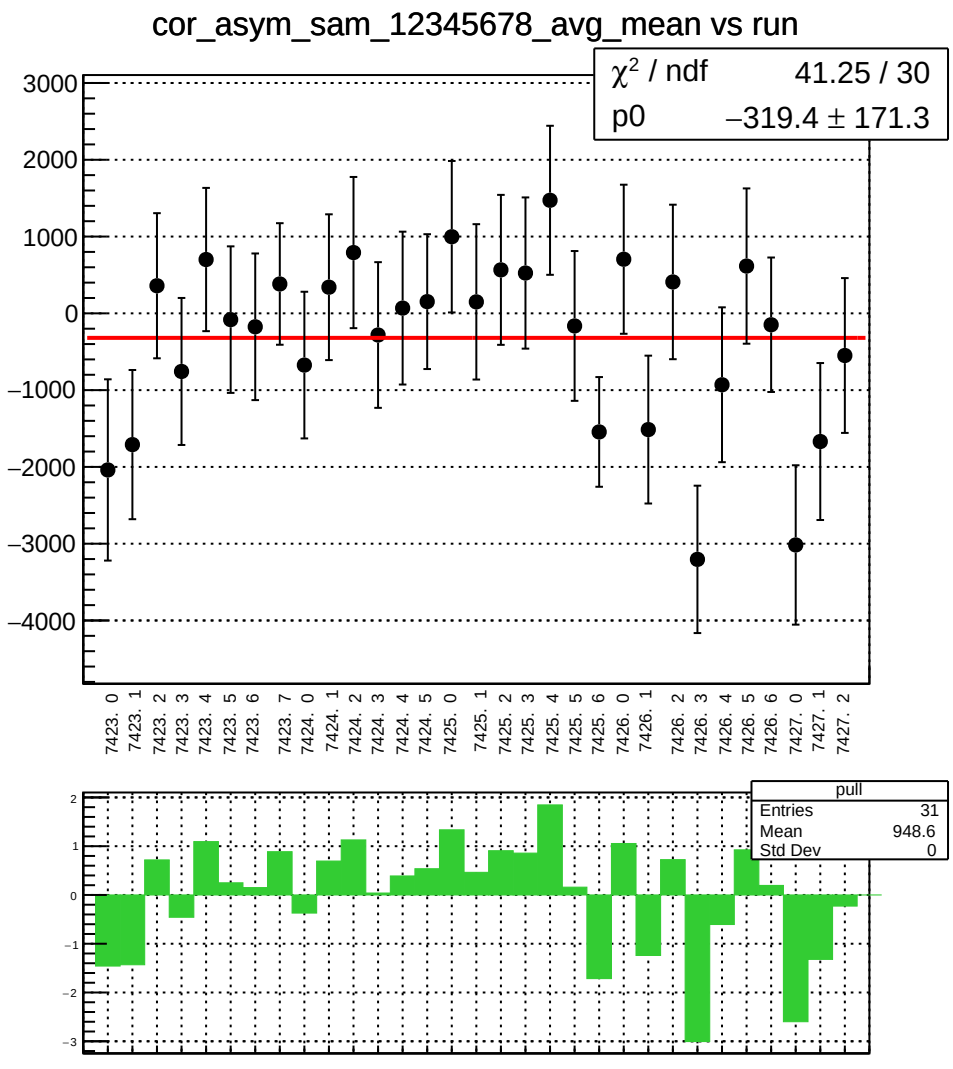

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 2.41e+05 / 30
p0 1.543e−12 ± 2.592e−15
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

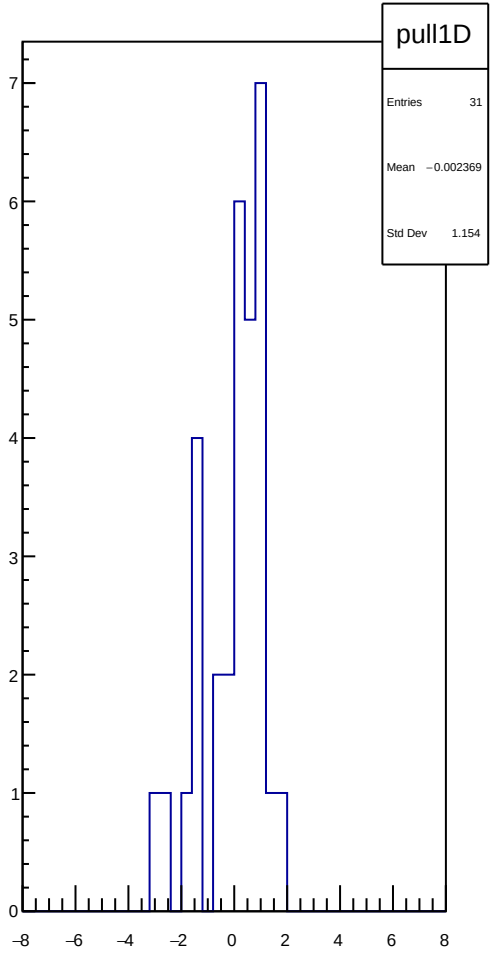

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 41.25 / 30
p0 −319.4 ± 171.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 950.4
Std Dev 0
pull1D
Entries 31
Mean −0.002364
Std Dev 1.154

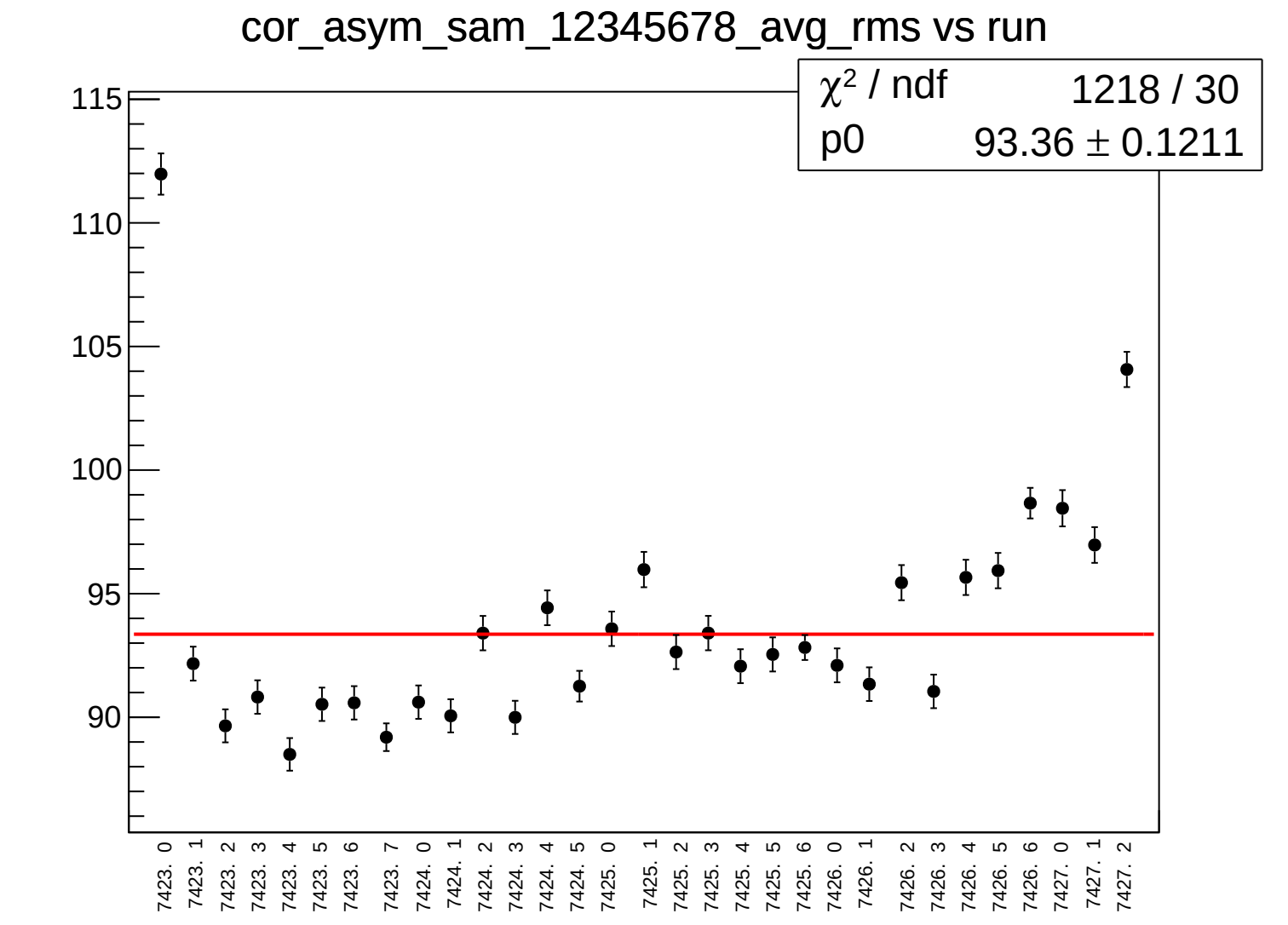

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1218 / 30
p0 93.36 ± 0.1211
115
110
105
100
95
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

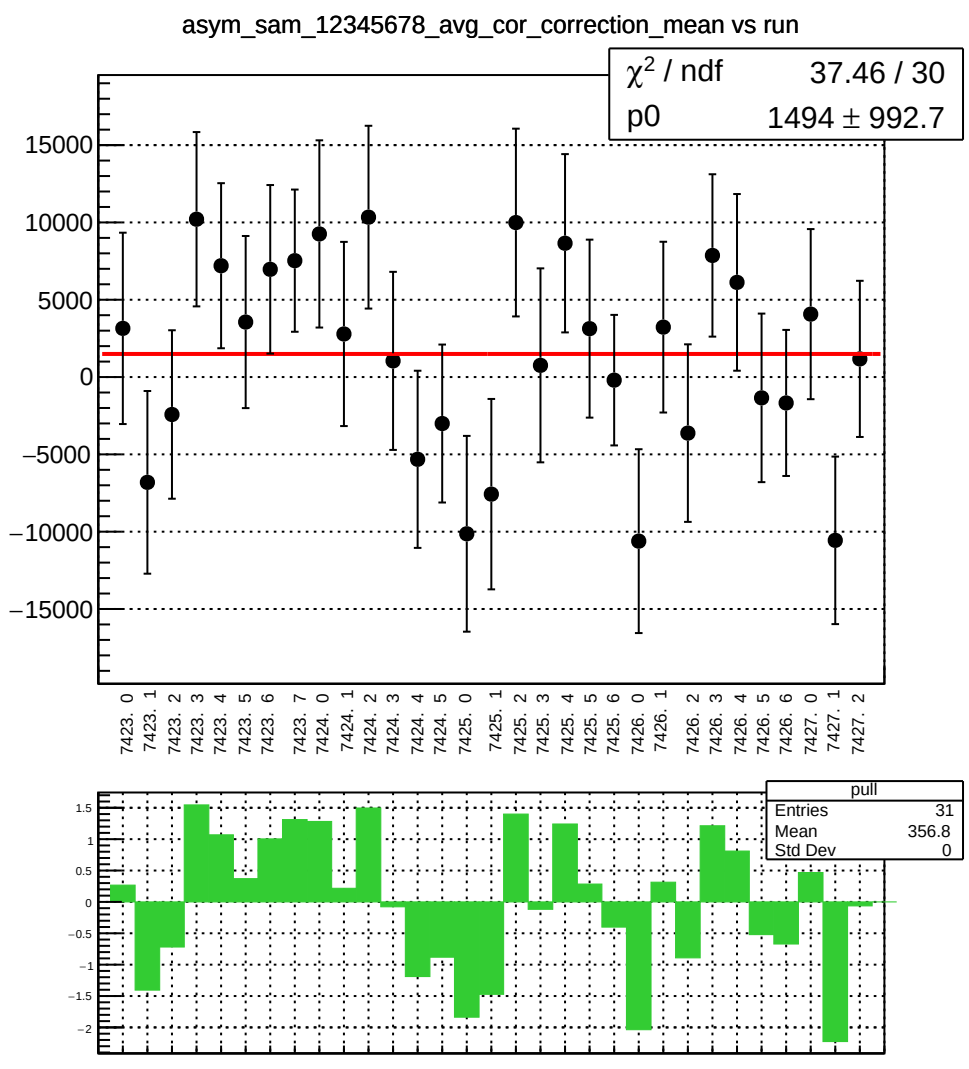

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 37.46 / 30
p0 1494 ± 992.7
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 356.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.006874
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

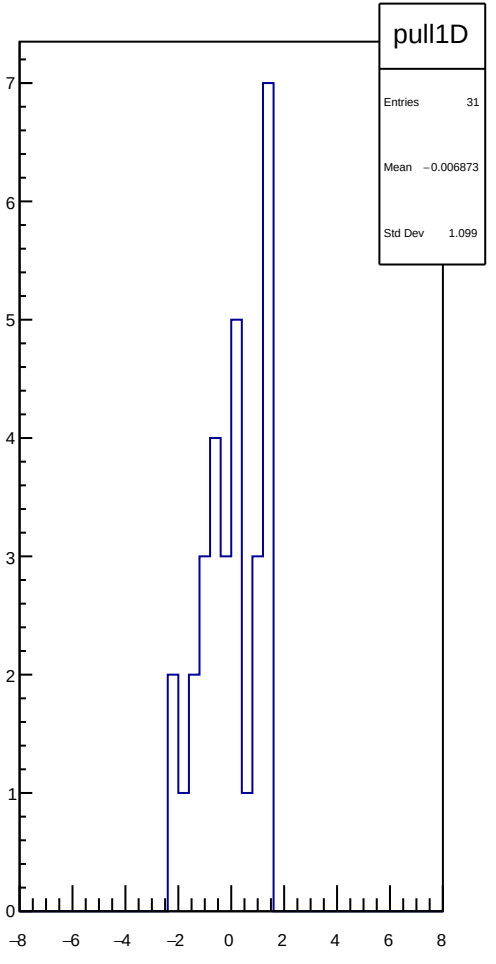

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1316 / 30
p0 541.1 ± 0.7019
600
580
560
540
520
500
17423. 0
17423. 1
17423. 2
17423. 3
17423. 4
17423. 5
17423. 6
17423. 7
17424. 0
17424. 1
17424. 2
17424. 3
17424. 4
17424. 5
17425. 0
17425. 1
17425. 2
17425. 3
17425. 4
17425. 5
17425. 6
17426. 0
17426. 1
17426. 2
17426. 3
17426. 4
17426. 5
17426. 6
17427. 0
17427. 1
17427. 2

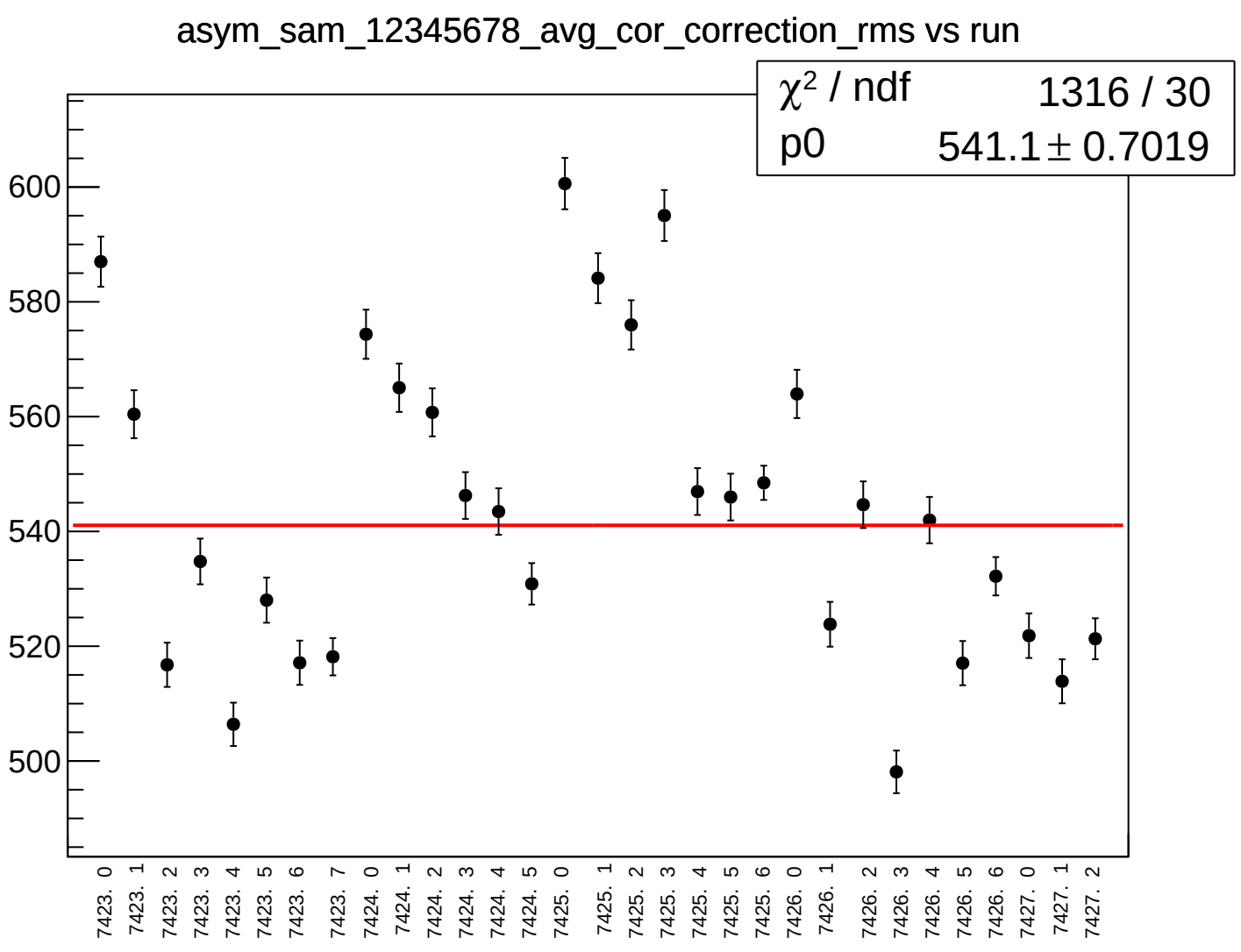

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 41.25 / 30
p0 −319.4 ± 171.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 948.6
Std Dev 0
2
1
0
−1
−2
−3

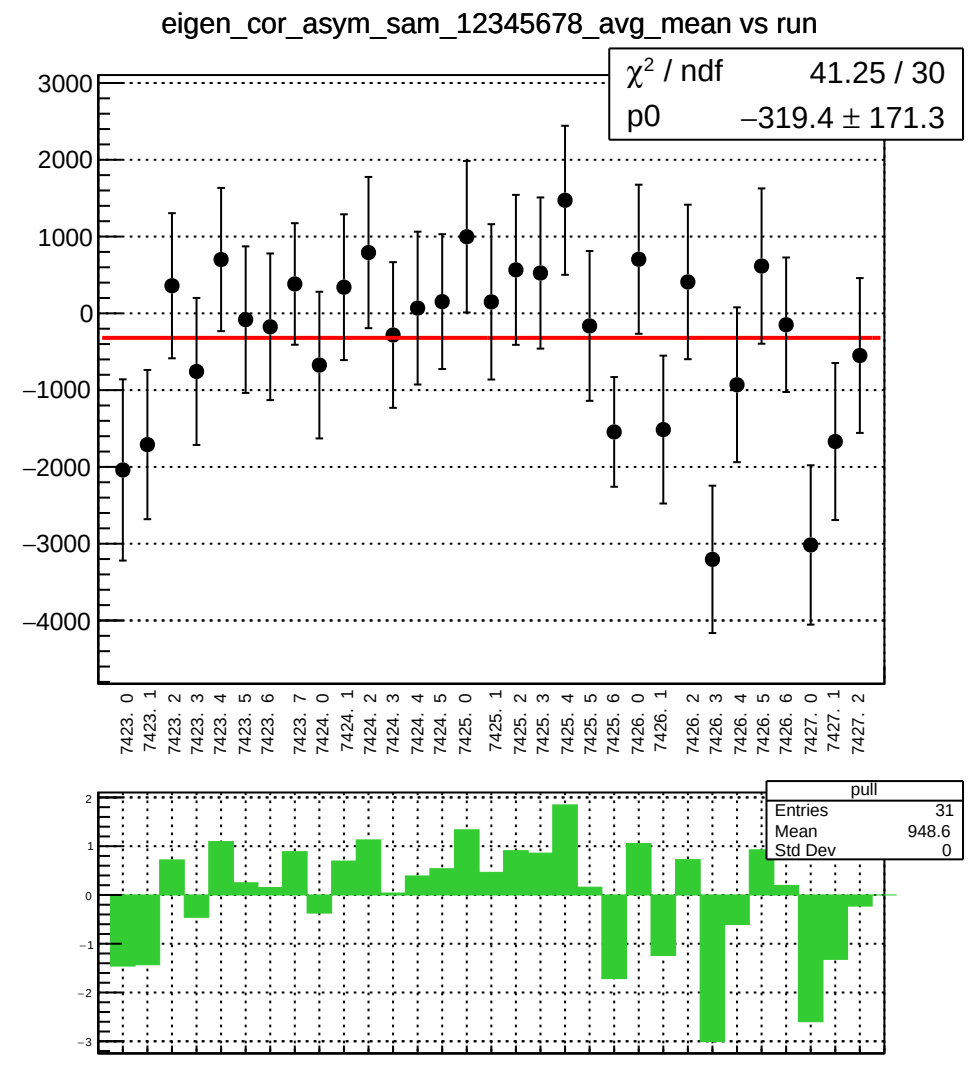

pull1D
Entries 31
Mean −0.002369
Std Dev 1.154
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

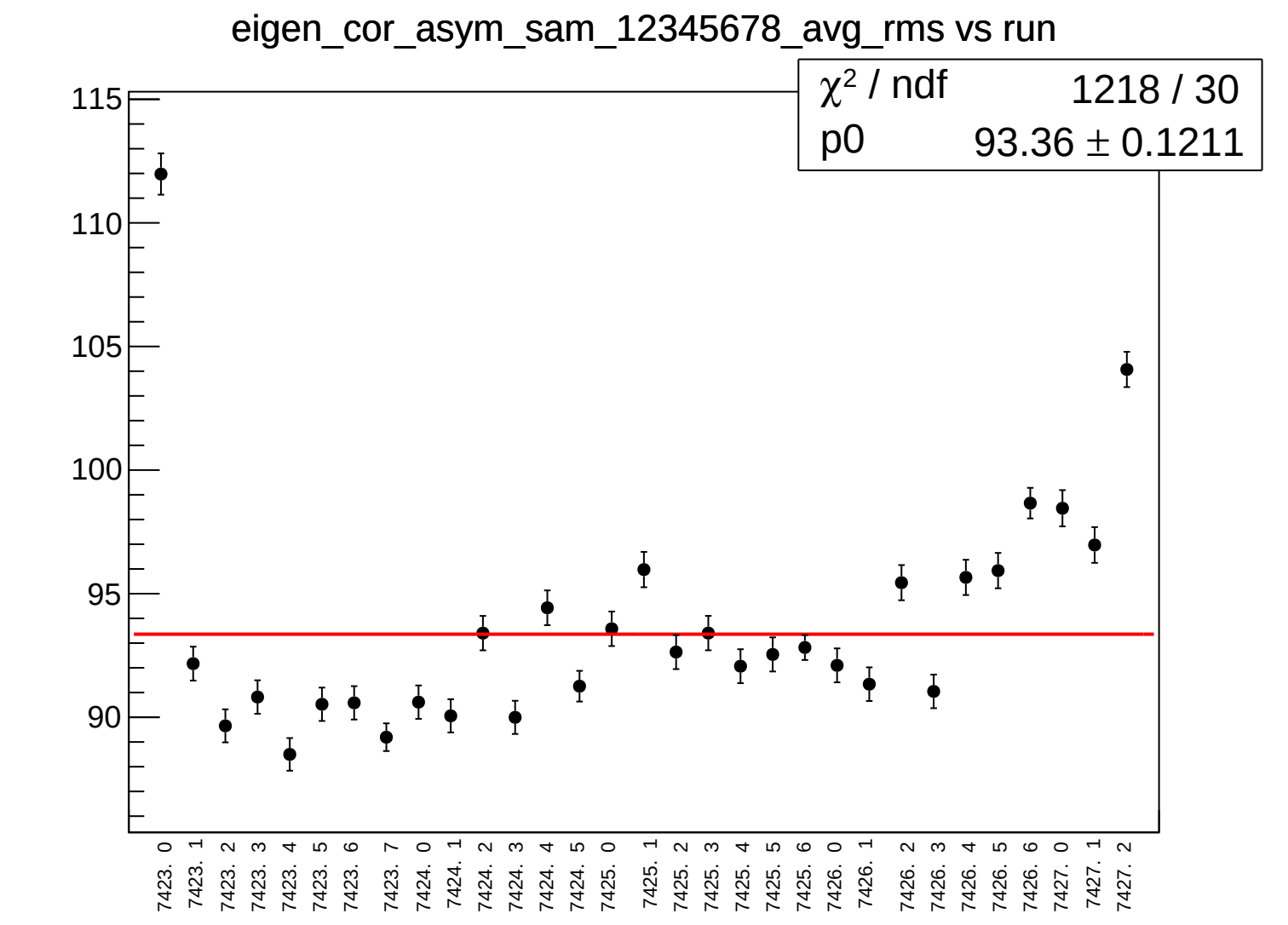

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1218 / 30
p0 93.36 ± 0.1211
115
110
105
100
95
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

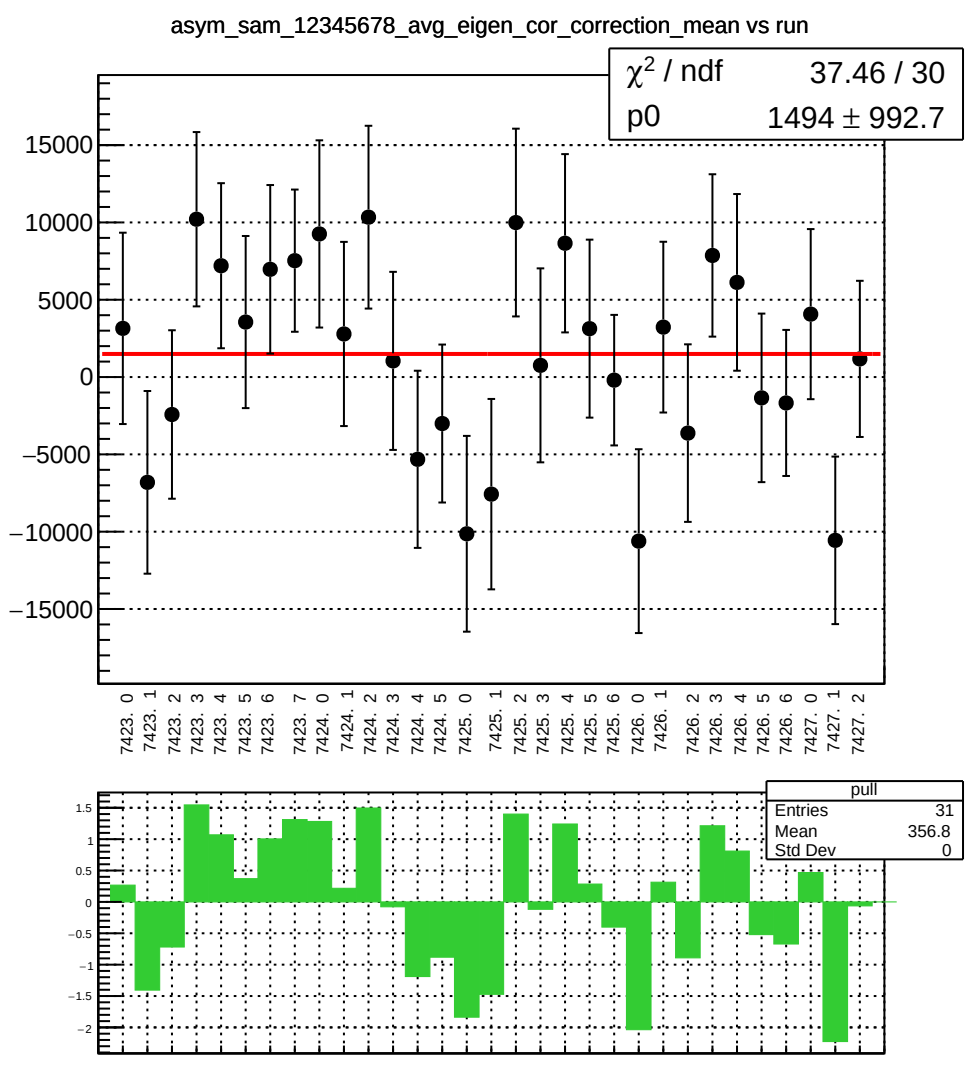

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 37.46 / 30
p0 1494 ± 992.7
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 356.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

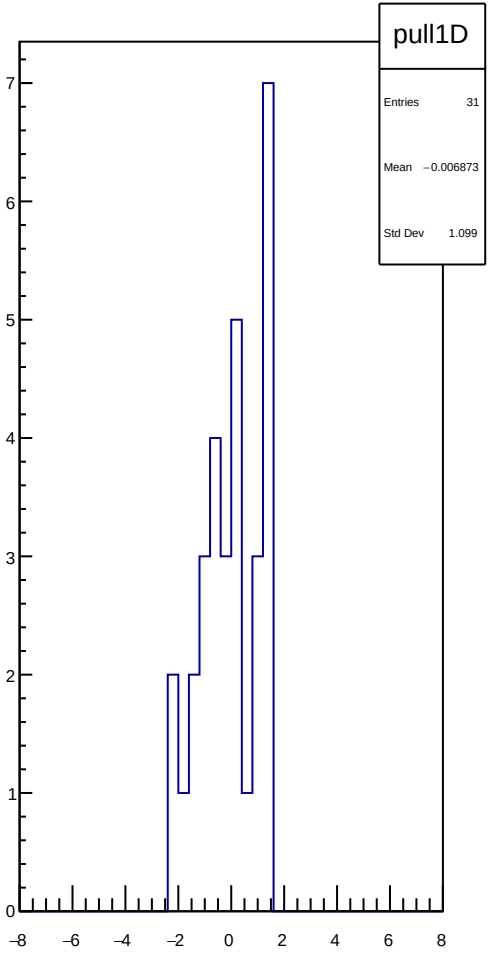

pull1D
Entries 31
Mean −0.006873
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

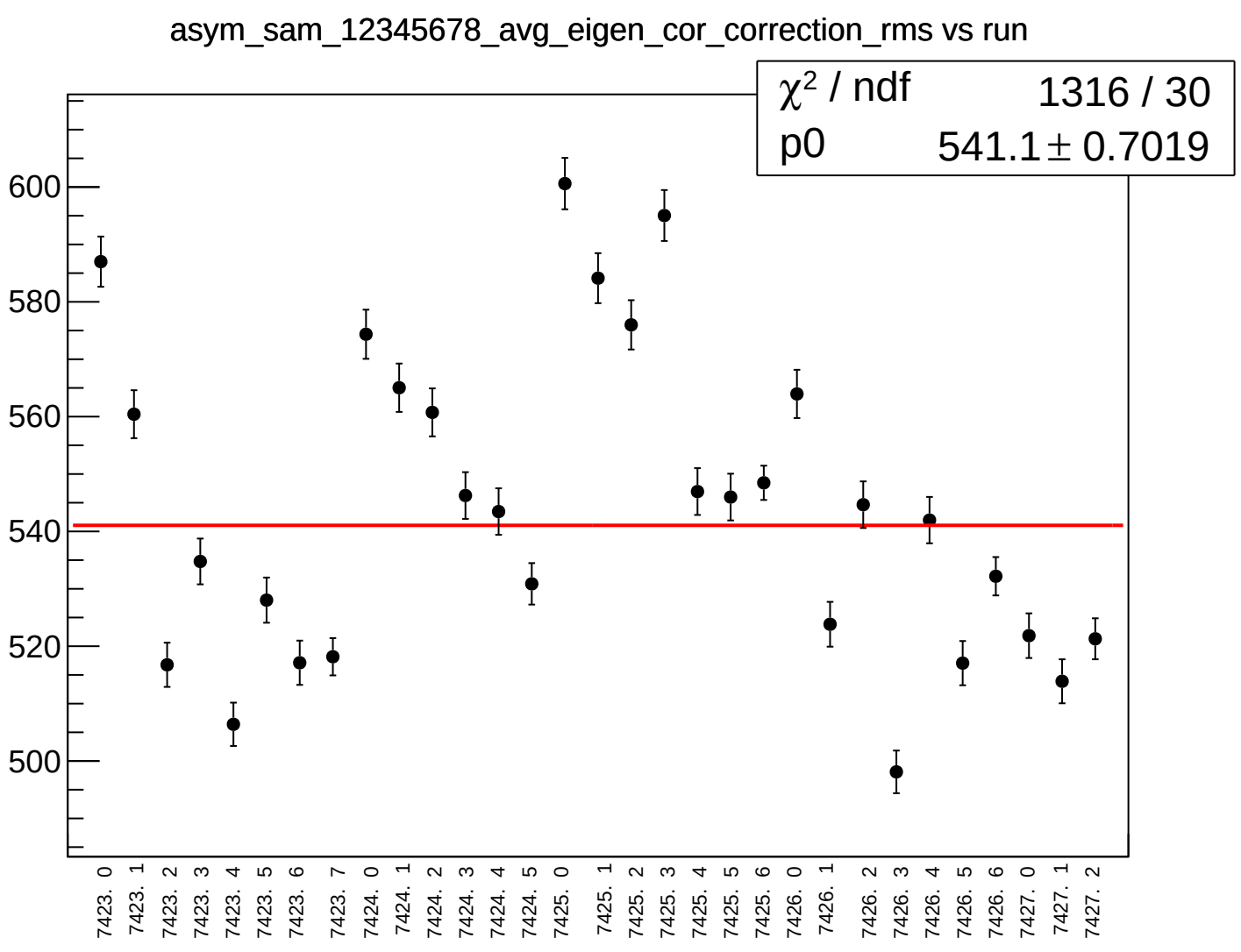

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1316 / 30
p0 541.1 ± 0.7019
600
580
560
540
520
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

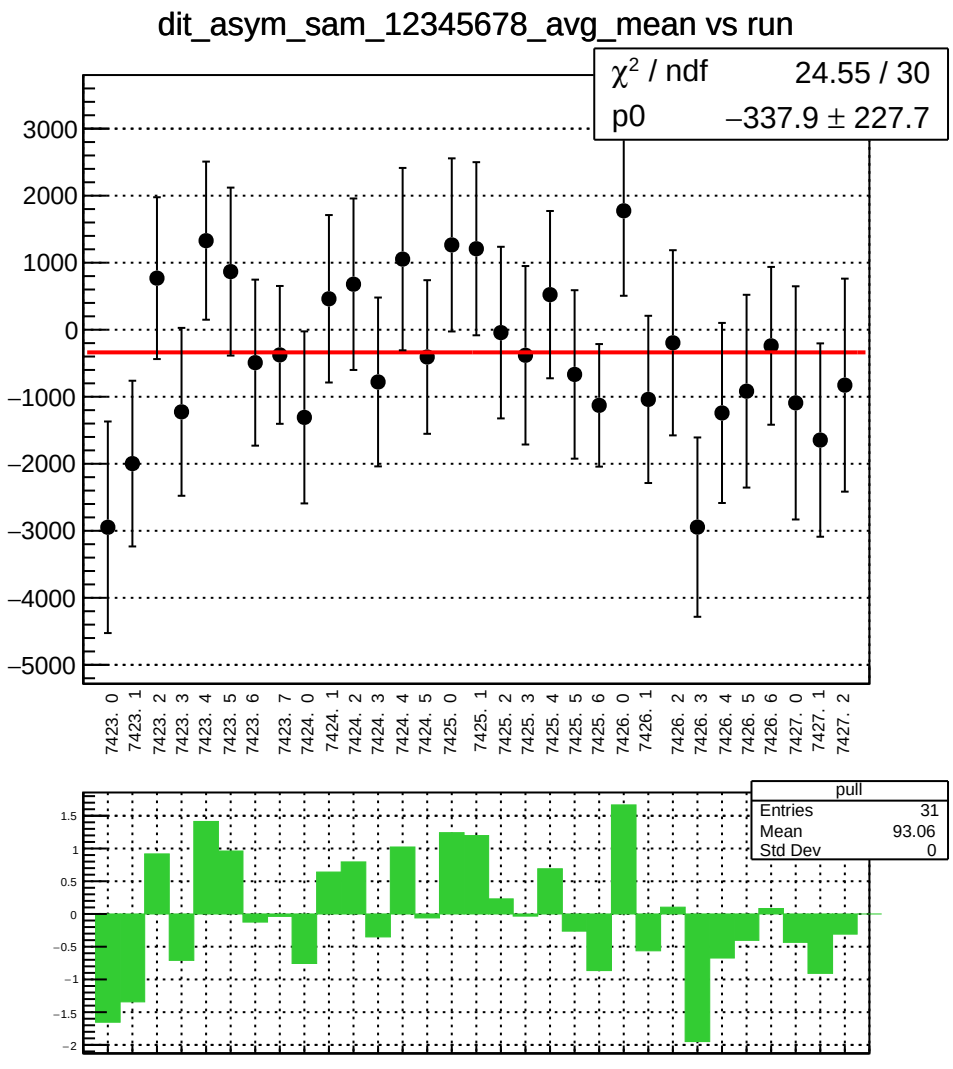

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 41.25 / 30
p0 −319.4 ± 171.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 948.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.002369
Std Dev 1.154
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

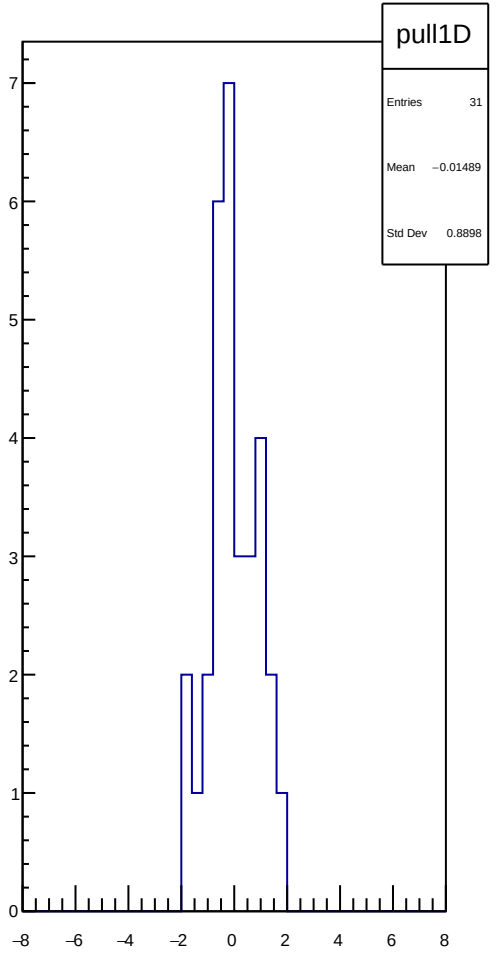

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1218 / 30
p0 93.36 ± 0.1211
115
110
105
100
95
90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

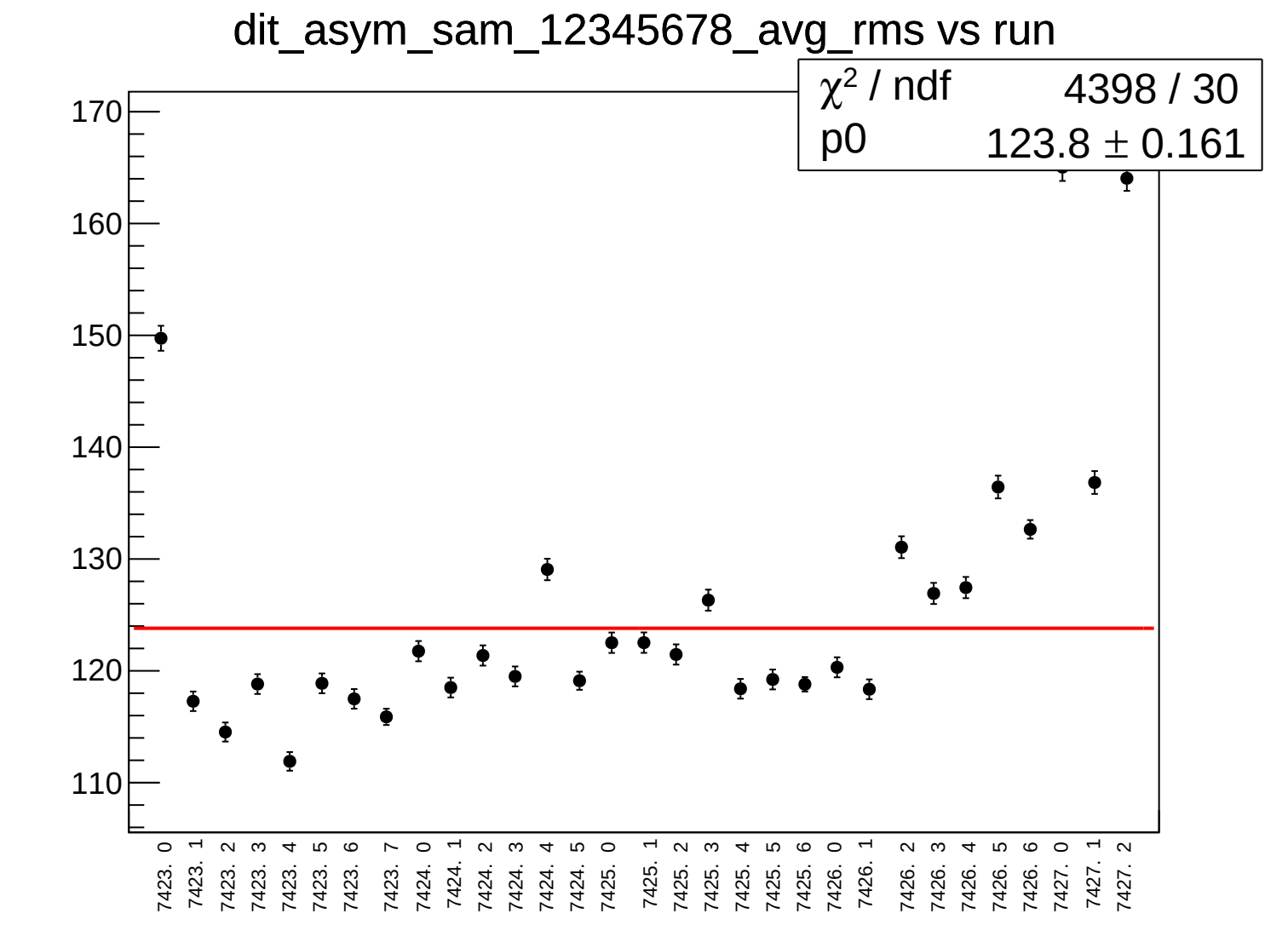

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.46 / 30
p0 1494 ± 992.7
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 356.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

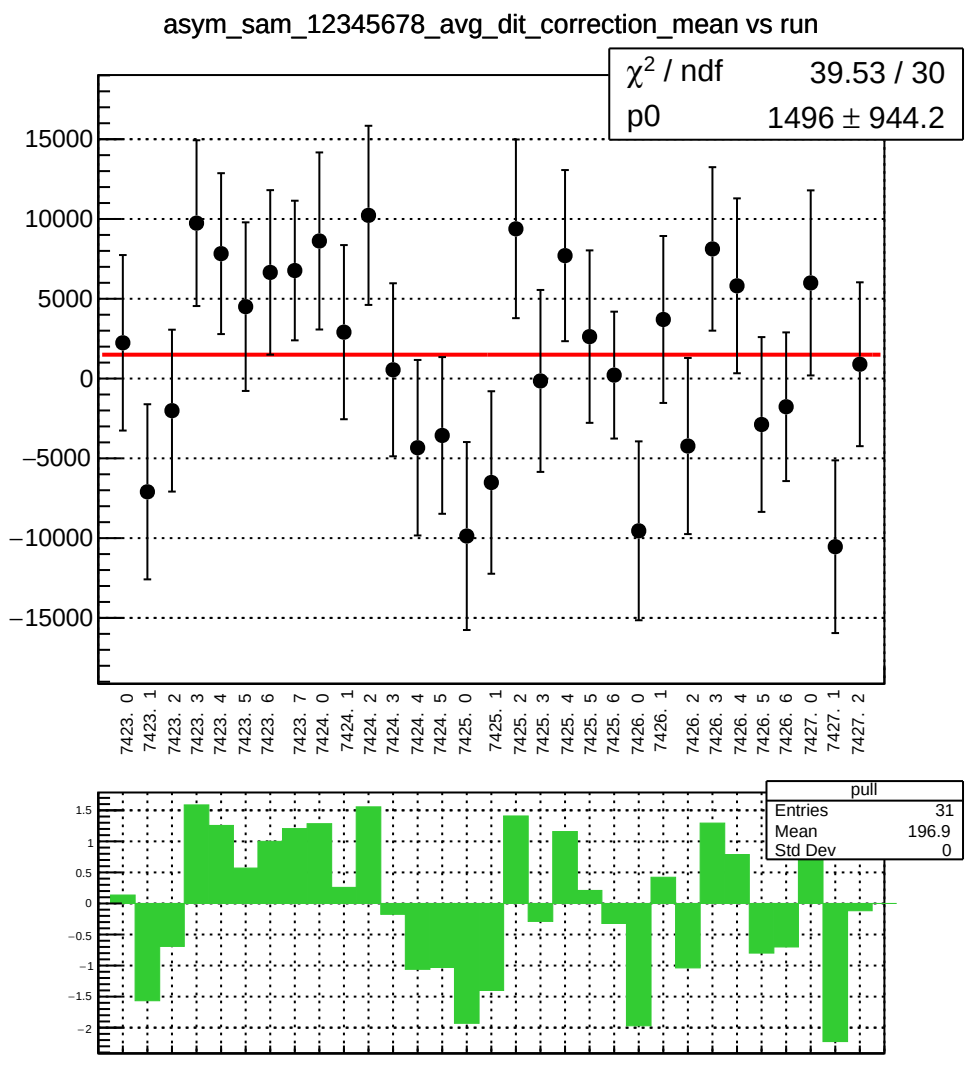

pull1D
Entries 31
Mean −0.006873
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

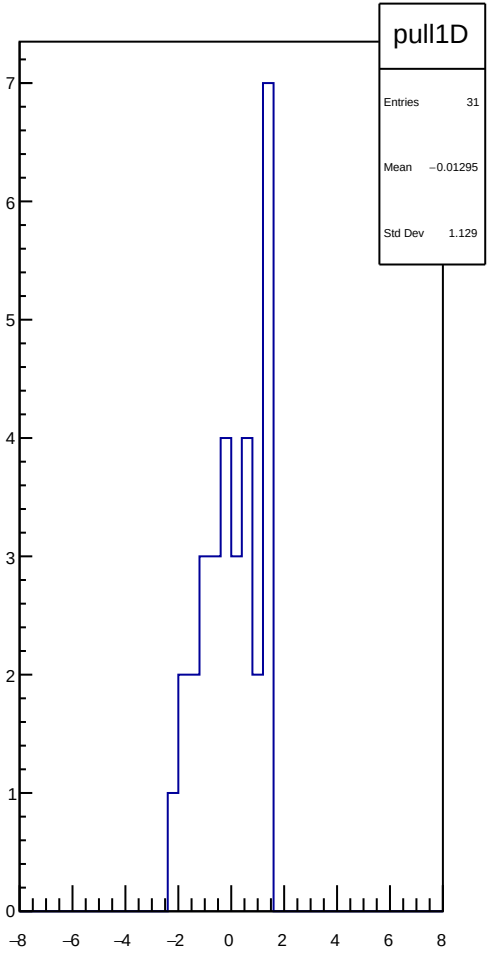

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1316 / 30
p0 541.1 ± 0.7019
600
580
560
540
520
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

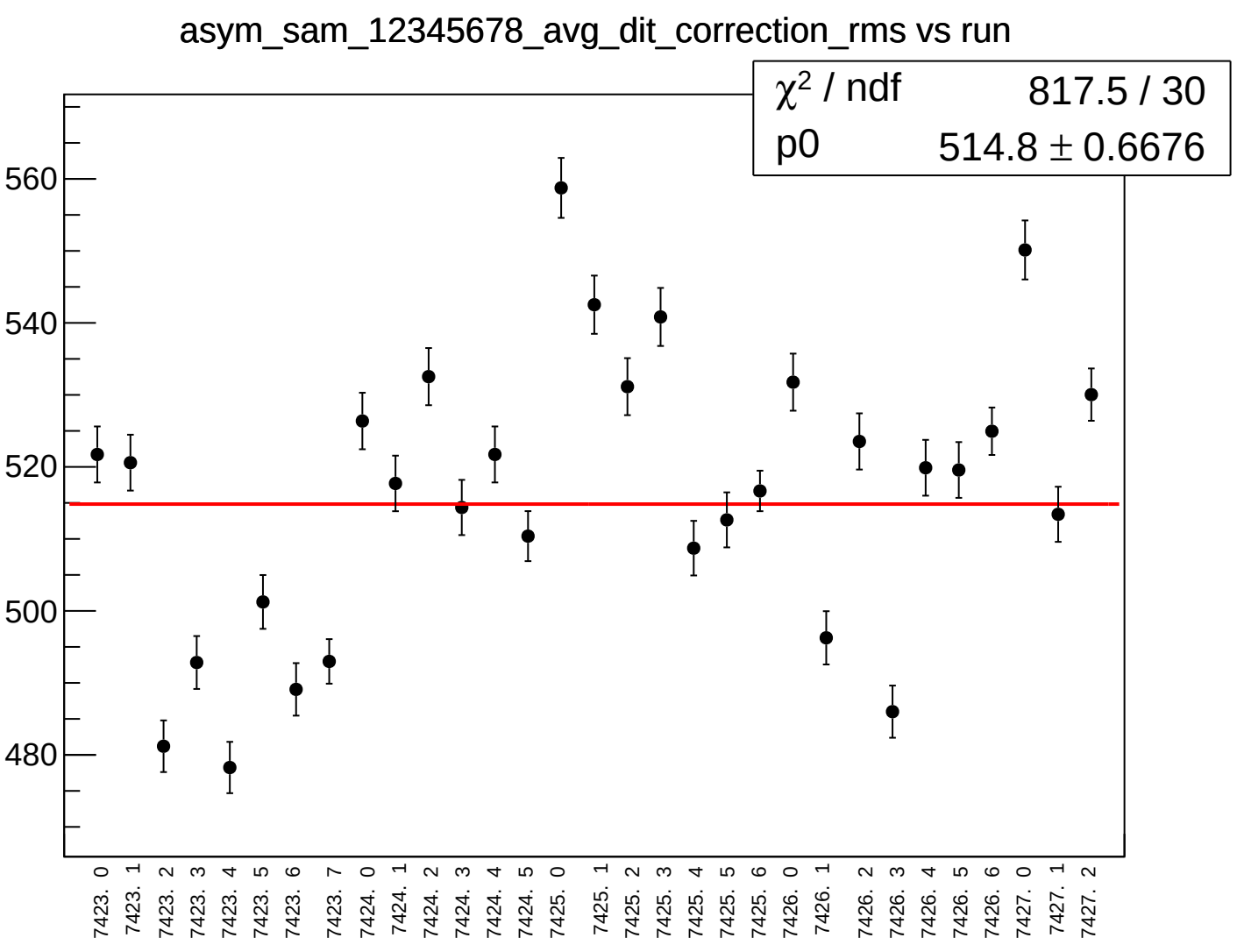

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 24.55 / 30
p0 −337.9 ± 227.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 93.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

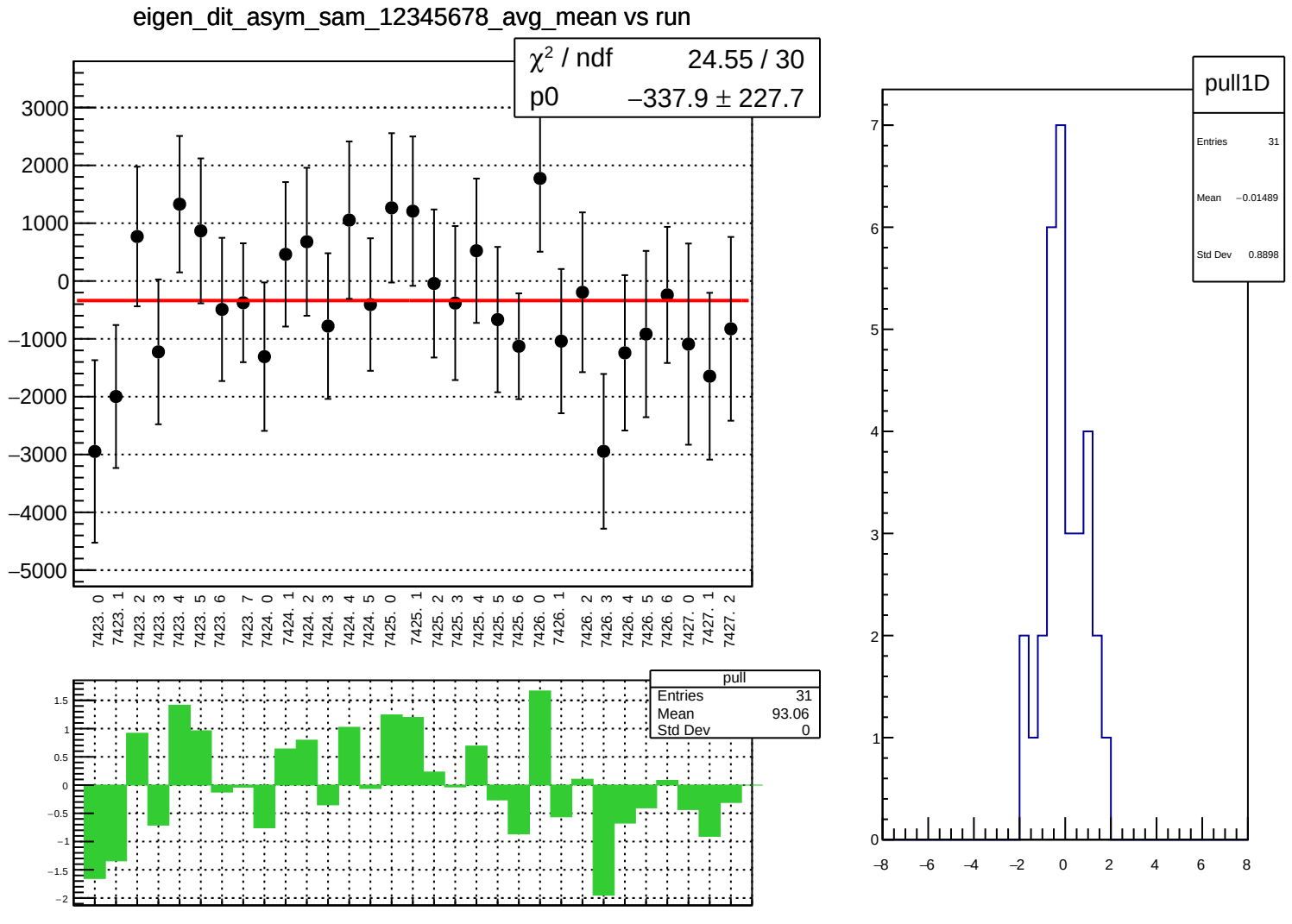

pull1D
Entries 31
Mean −0.01489
Std Dev 0.8898
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

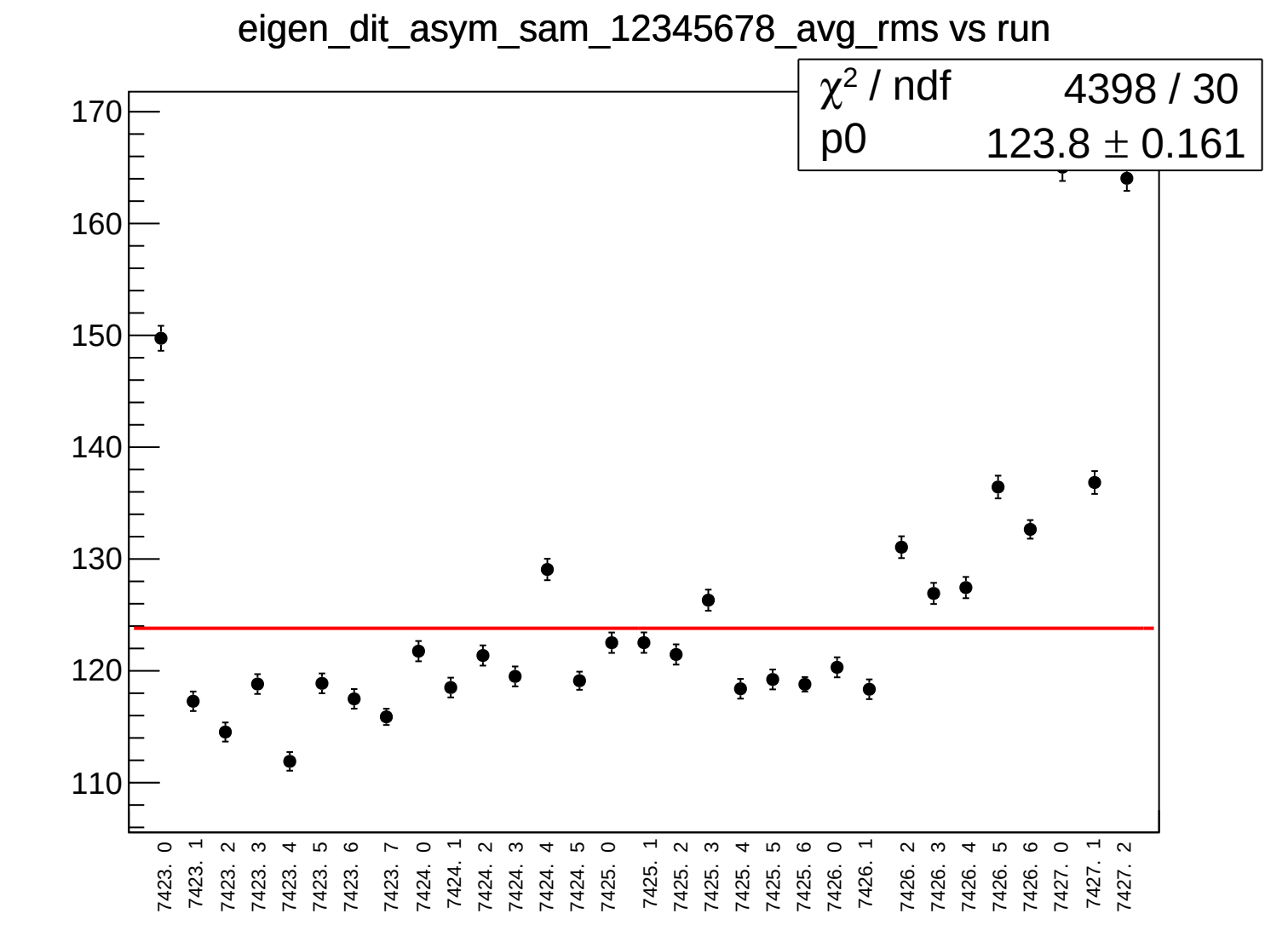

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4398 / 30
p0 123.8 ± 0.161
170
160
150
140
130
120
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

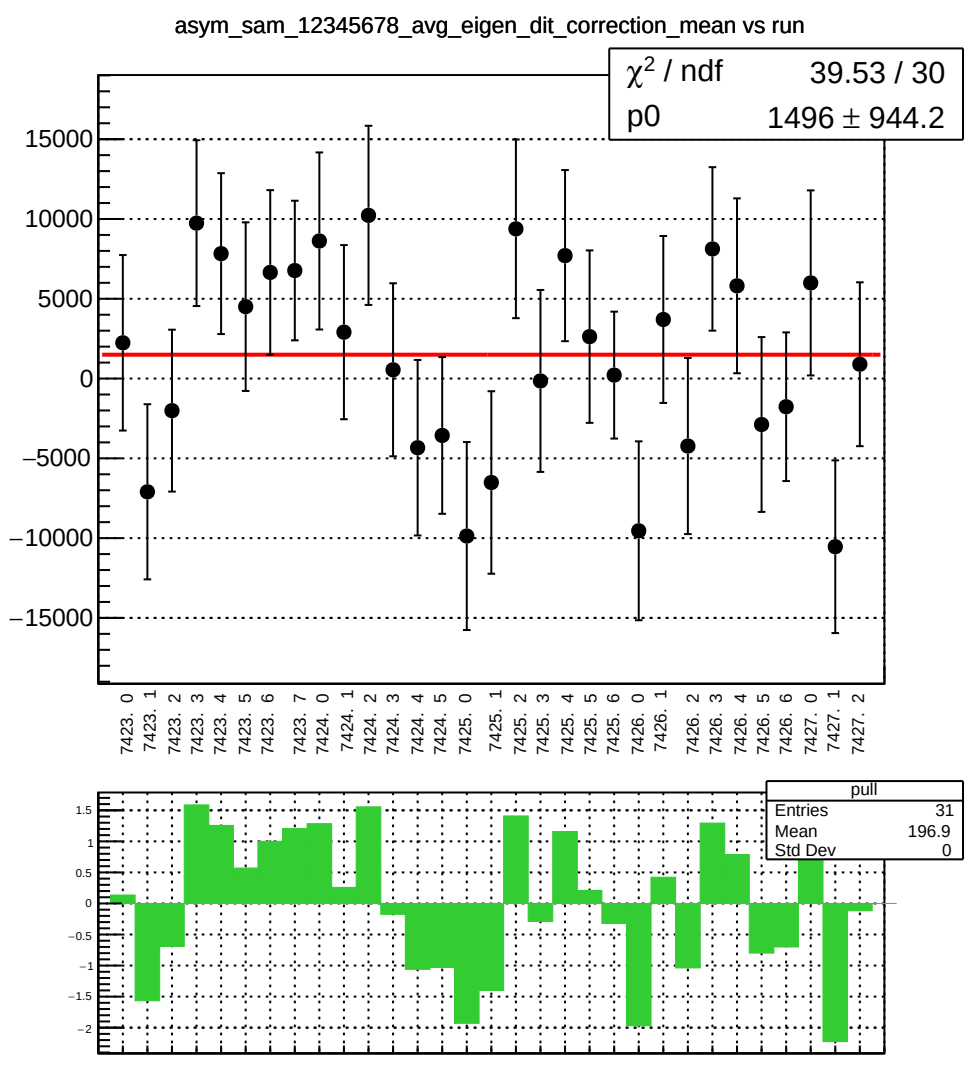

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 39.53 / 30
p0 1496 ± 944.2
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 196.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

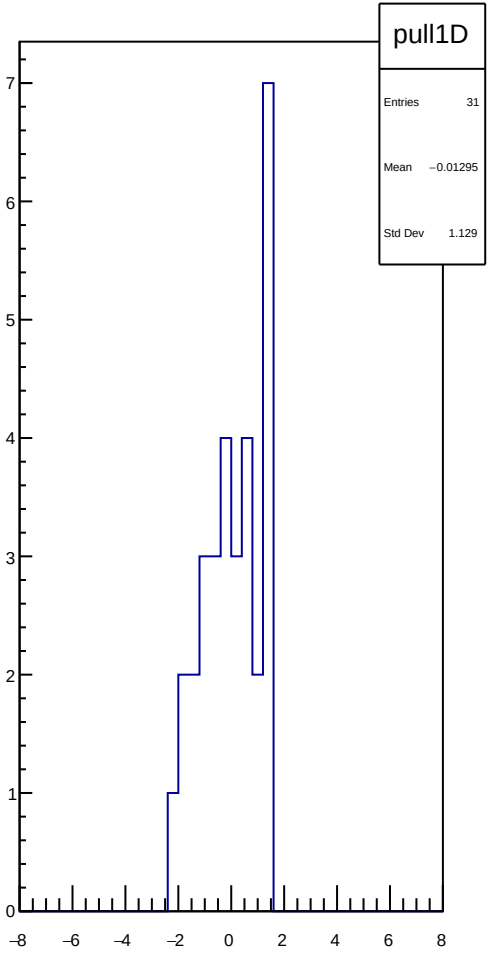

pull1D
Entries 31
Mean −0.01295
Std Dev 1.129
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

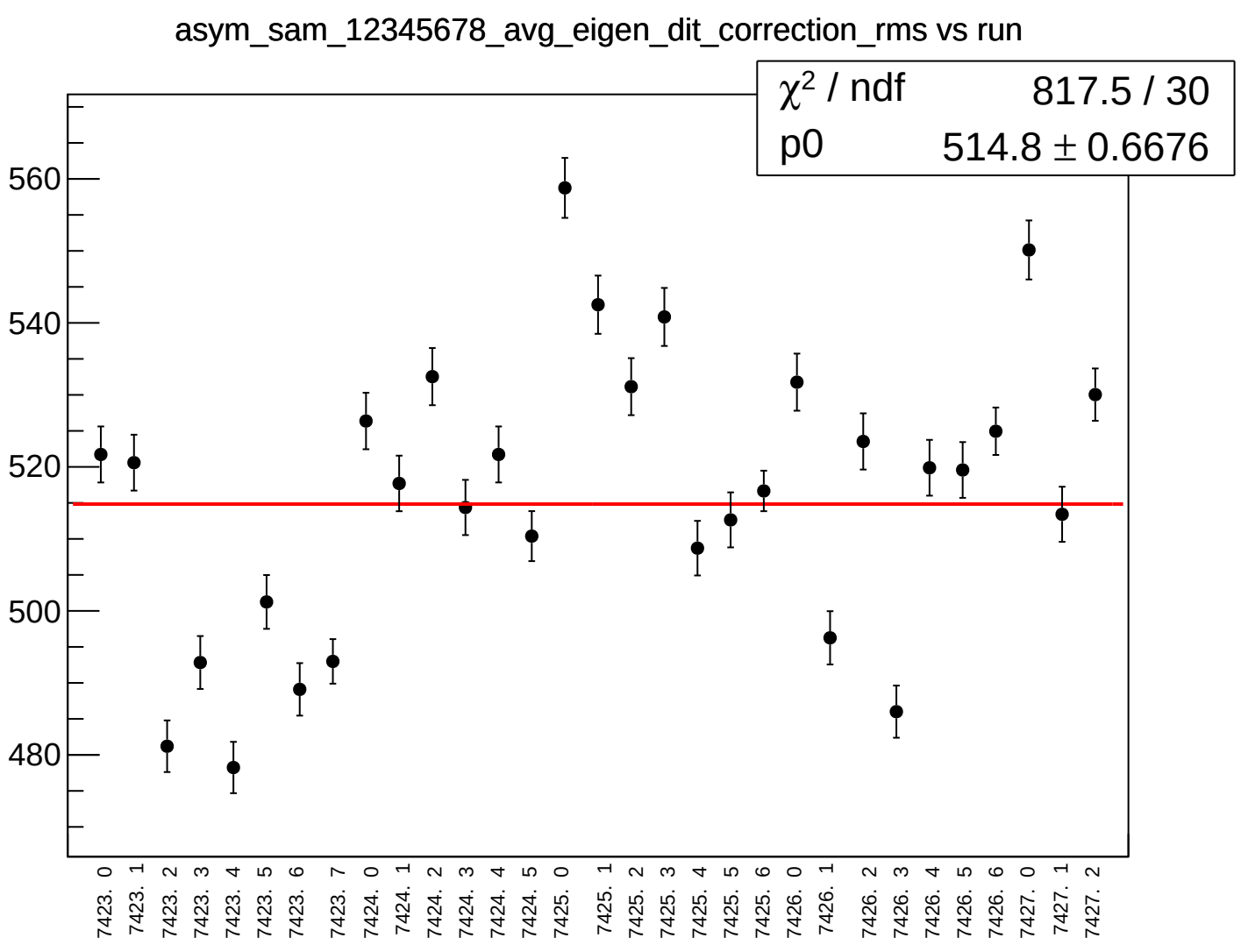

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 817.5 / 30
p0 514.8 ± 0.6676
560
540
520
500
480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2


eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 24.55 / 30
p0 −337.9 ± 227.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 93.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01489
Std Dev 0.8898
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

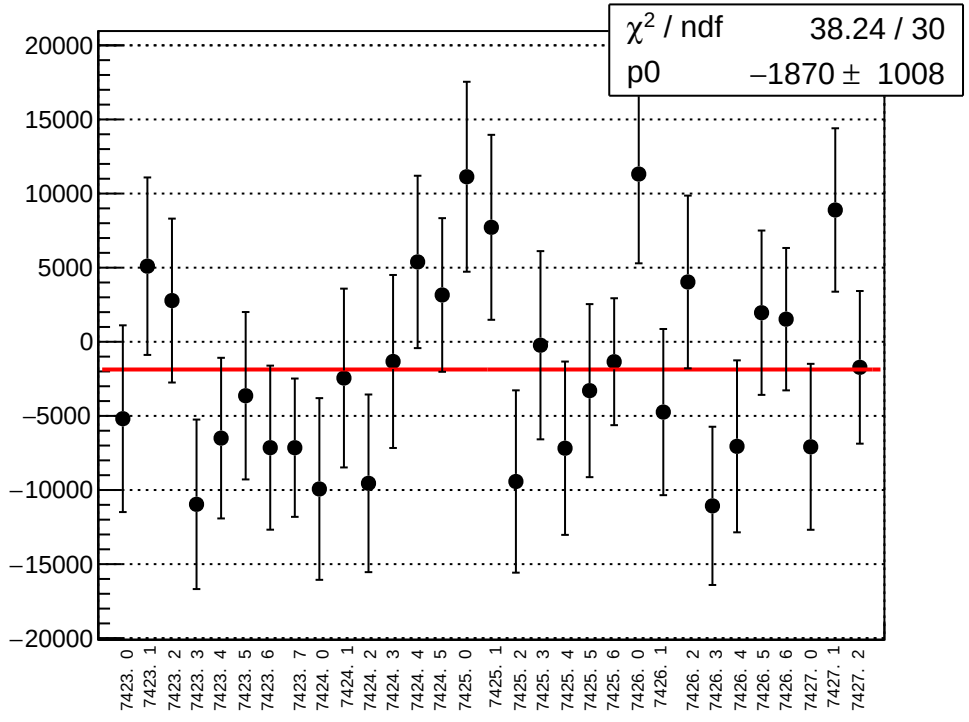

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4398 / 30
p0 123.8 ± 0.161
170
160
150
140
130
120
110
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

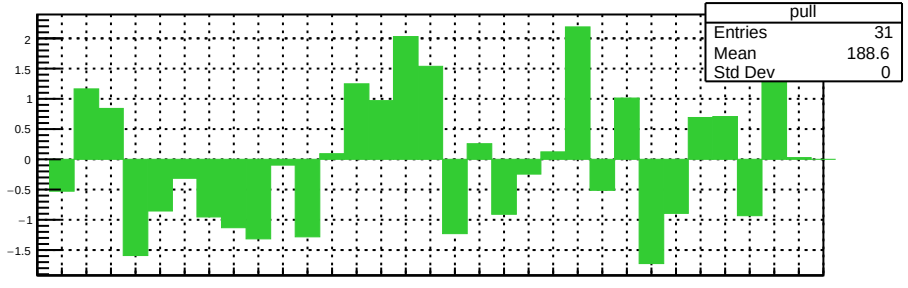

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.53 / 30
p0 1496 ± 944.2
15000
10000
5000
0
−5000
−10000
−15000
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 196.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

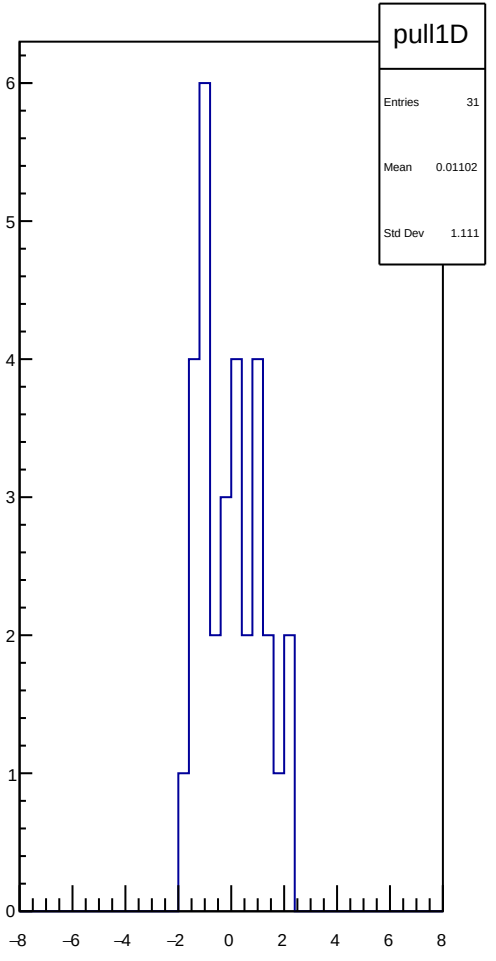

pull1D
Entries 31
Mean −0.01295
Std Dev 1.129
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

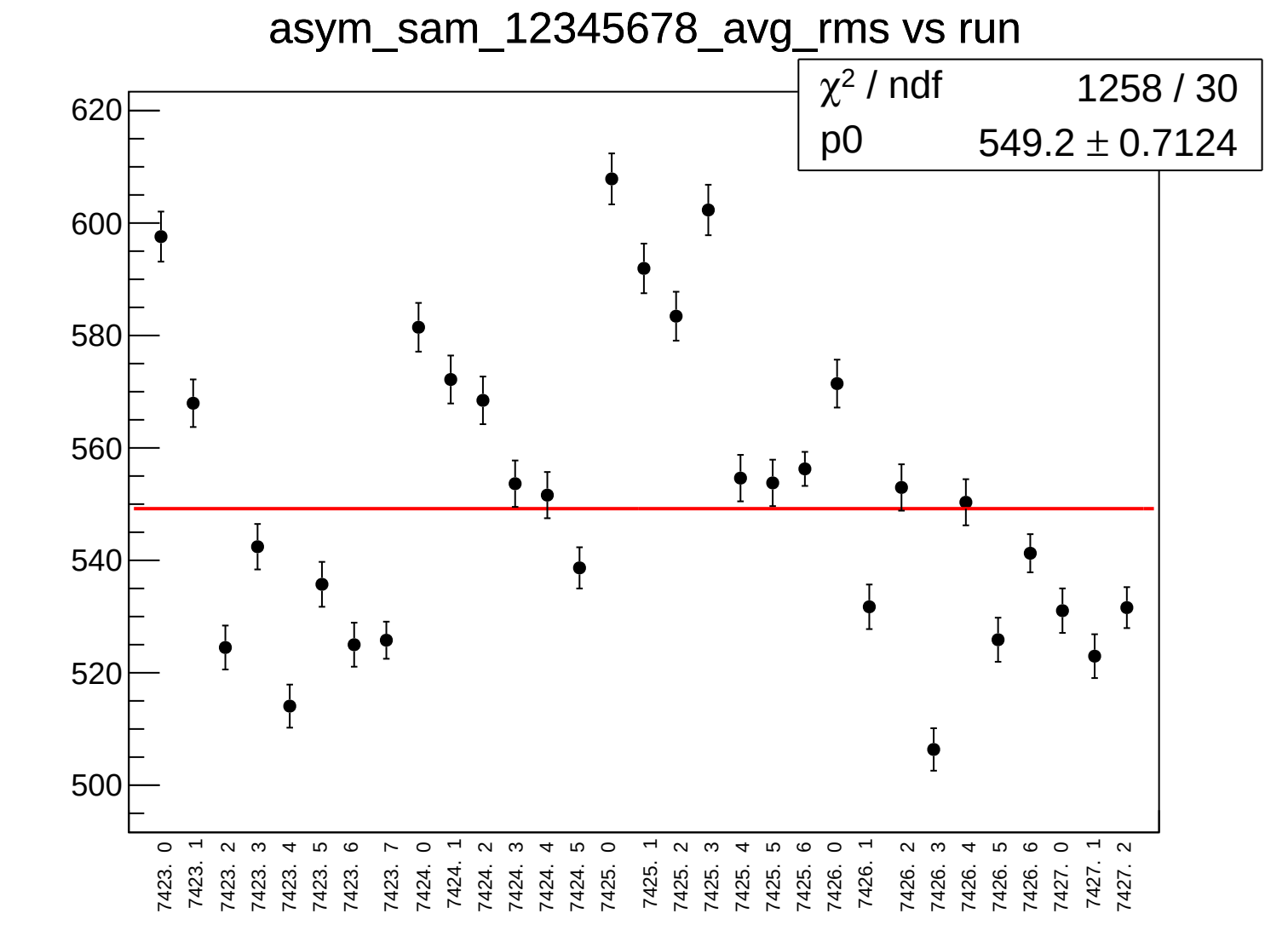

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 817.5 / 30
p0 514.8 ± 0.6676
560
540
520
500
480
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

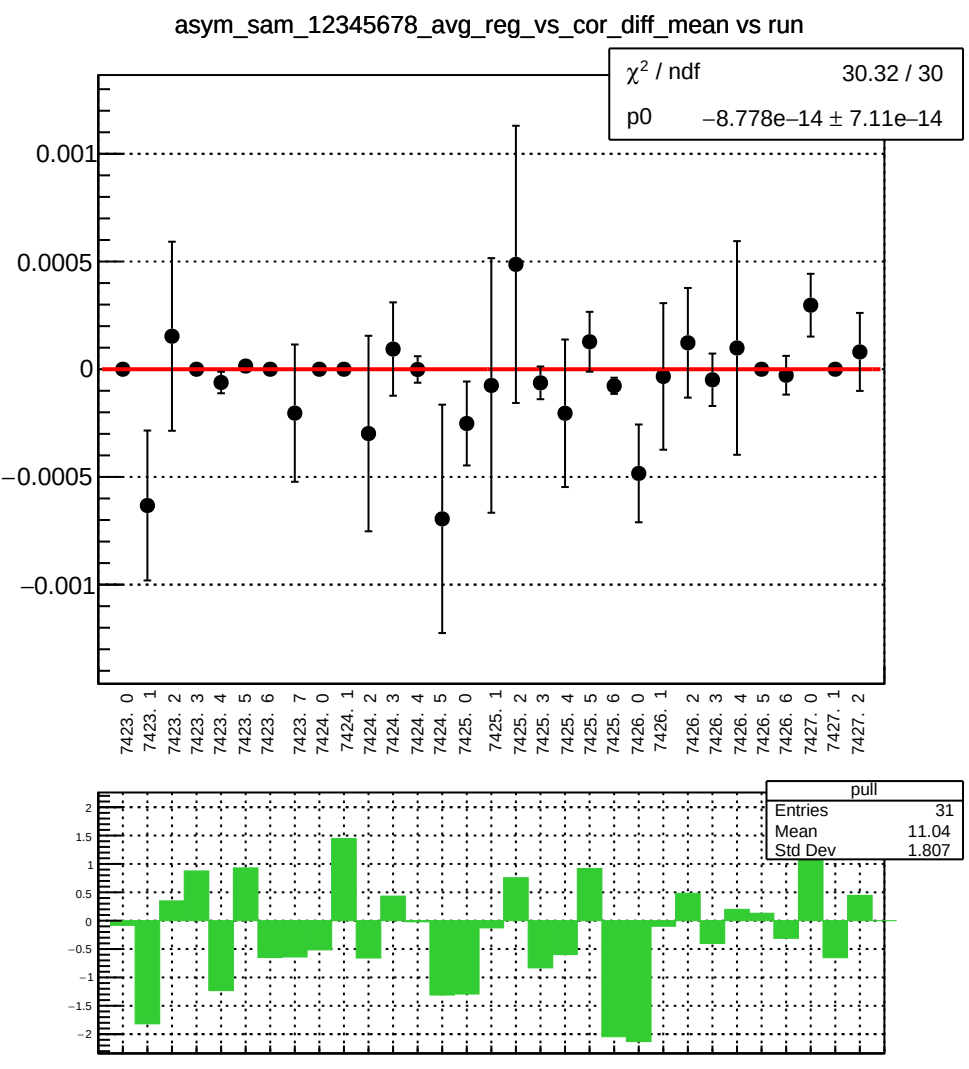
asym_sam_12345678_avg_mean vs run

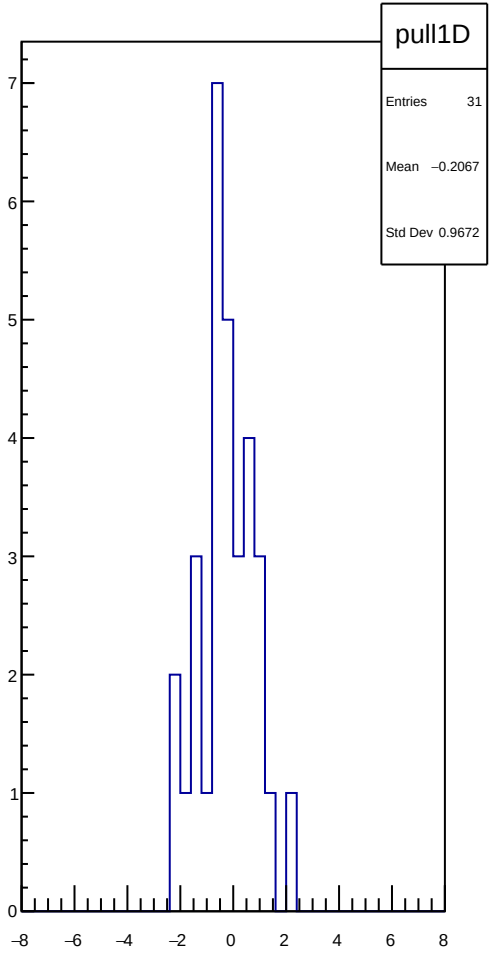


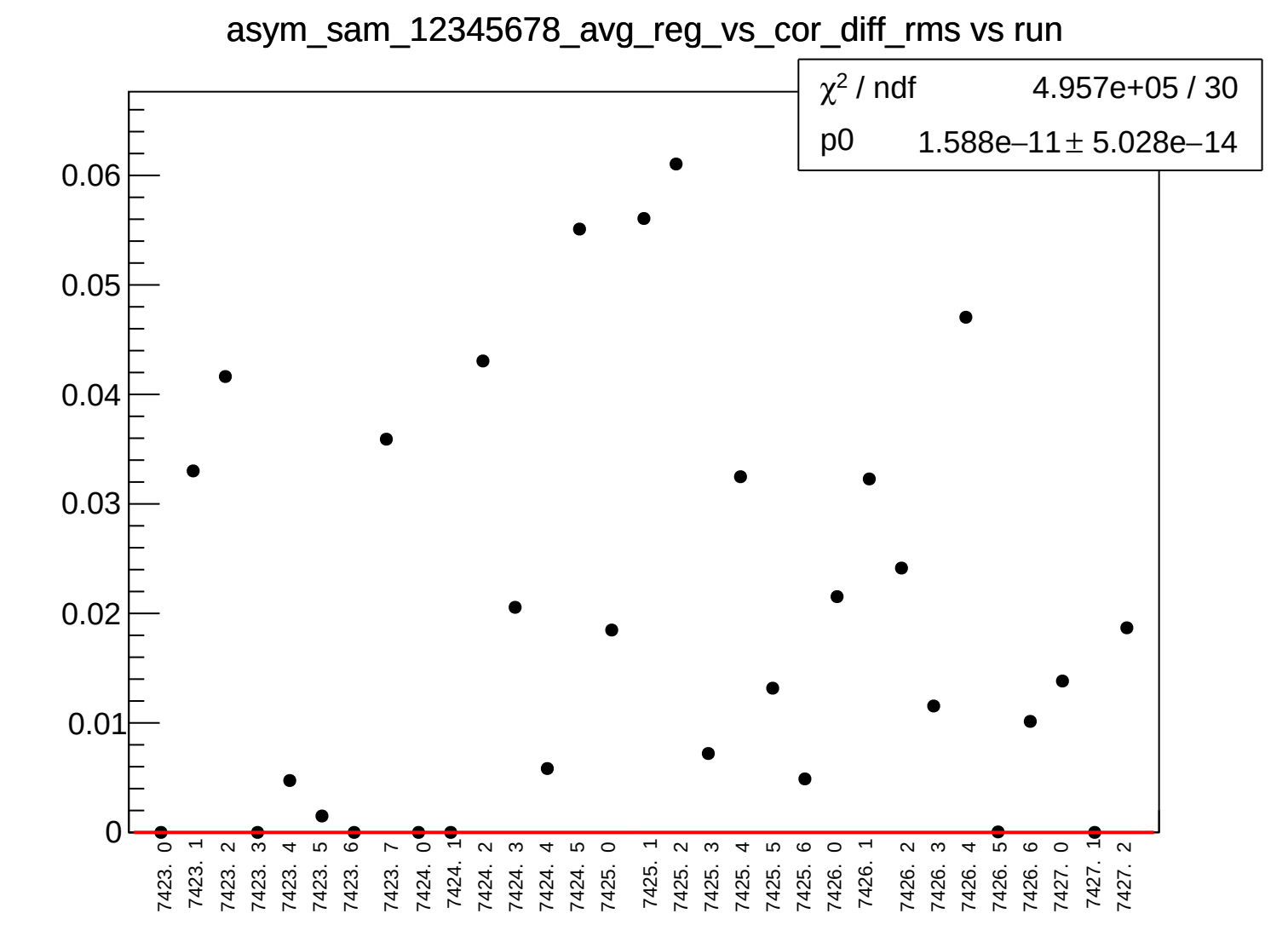


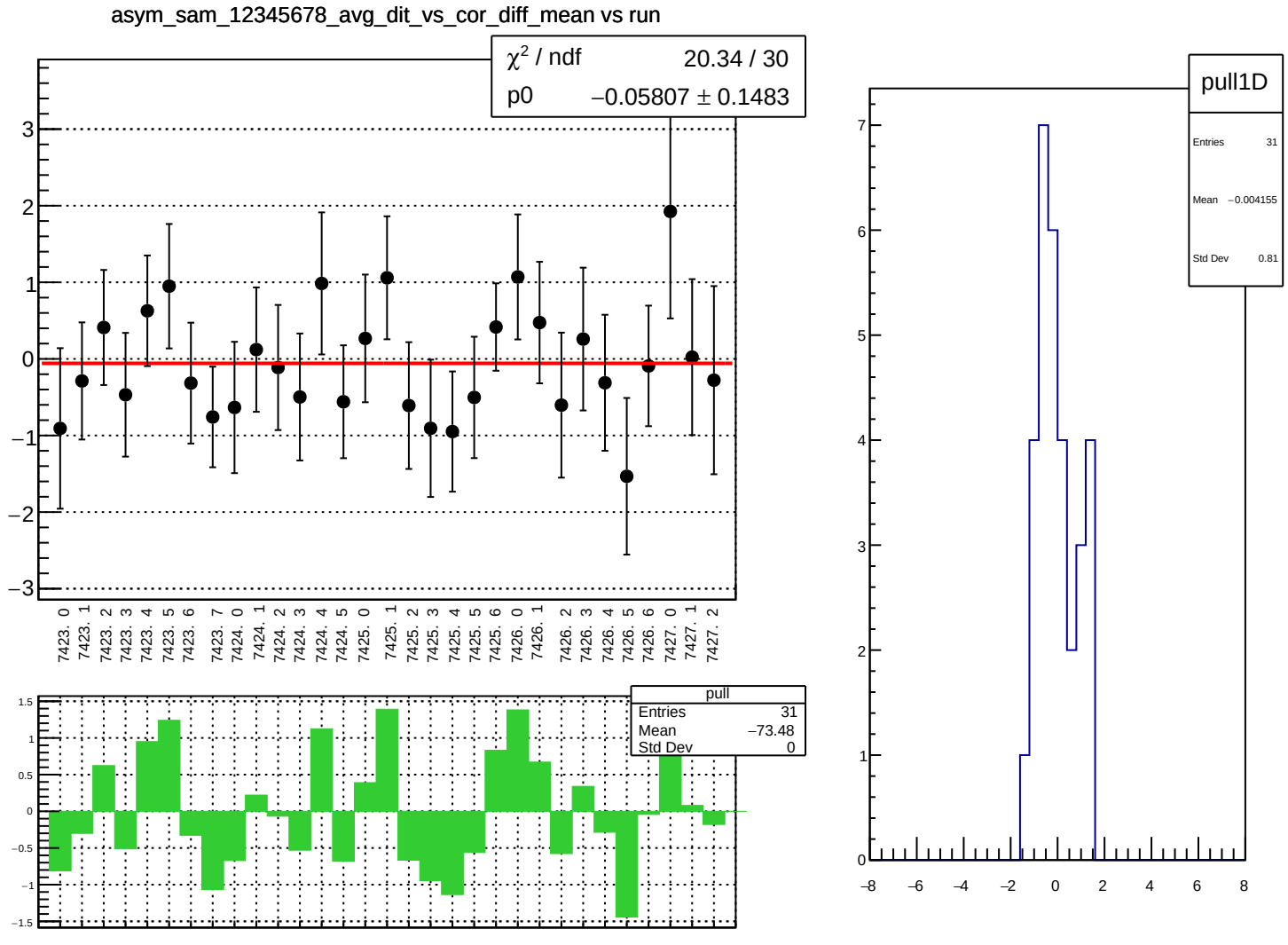


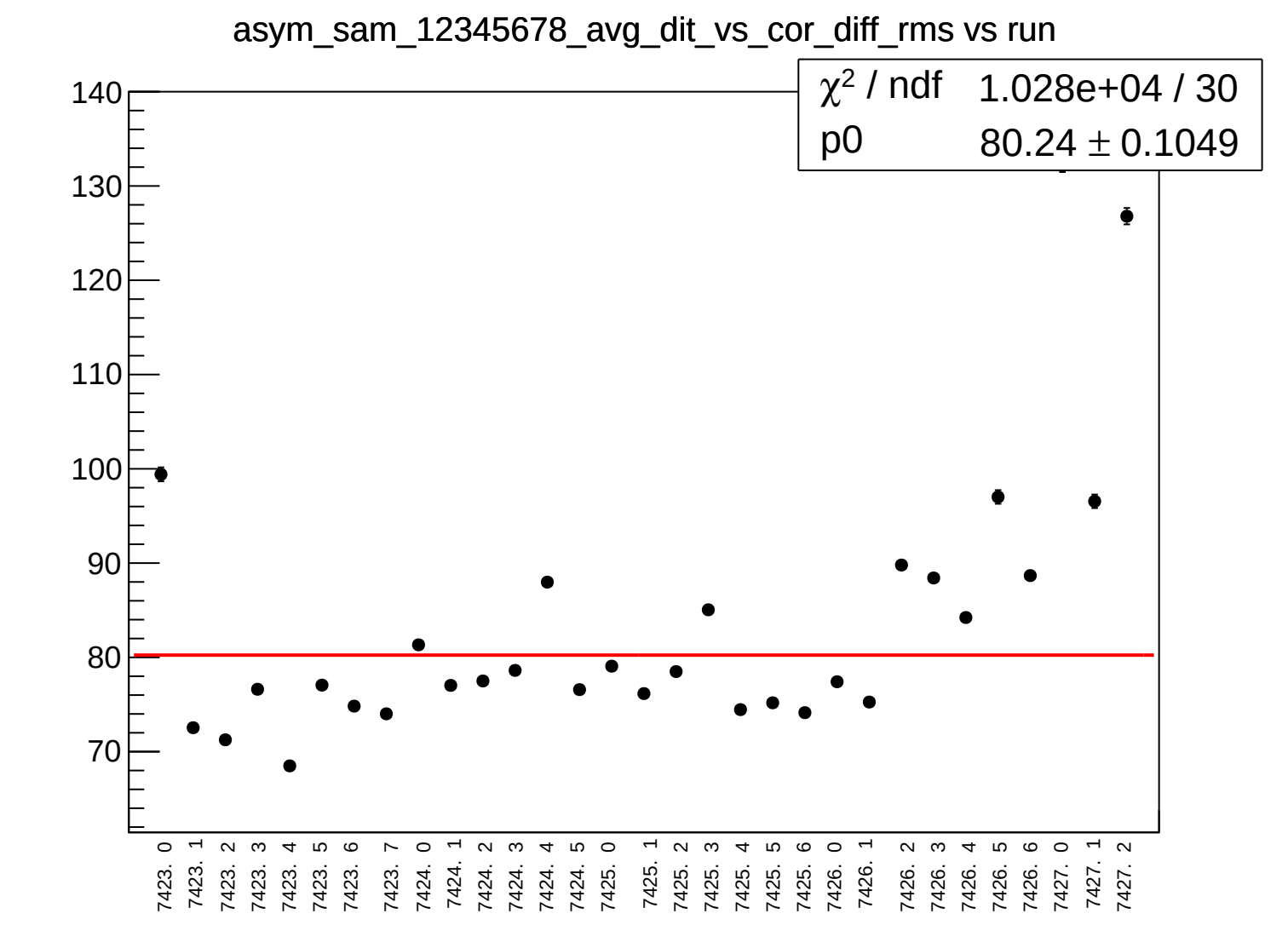

asym_sam_12345678_avg_rms vs run
χ² / ndf 1258 / 30
p0 549.2 ± 0.7124
620
600
580
560
540
520
500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

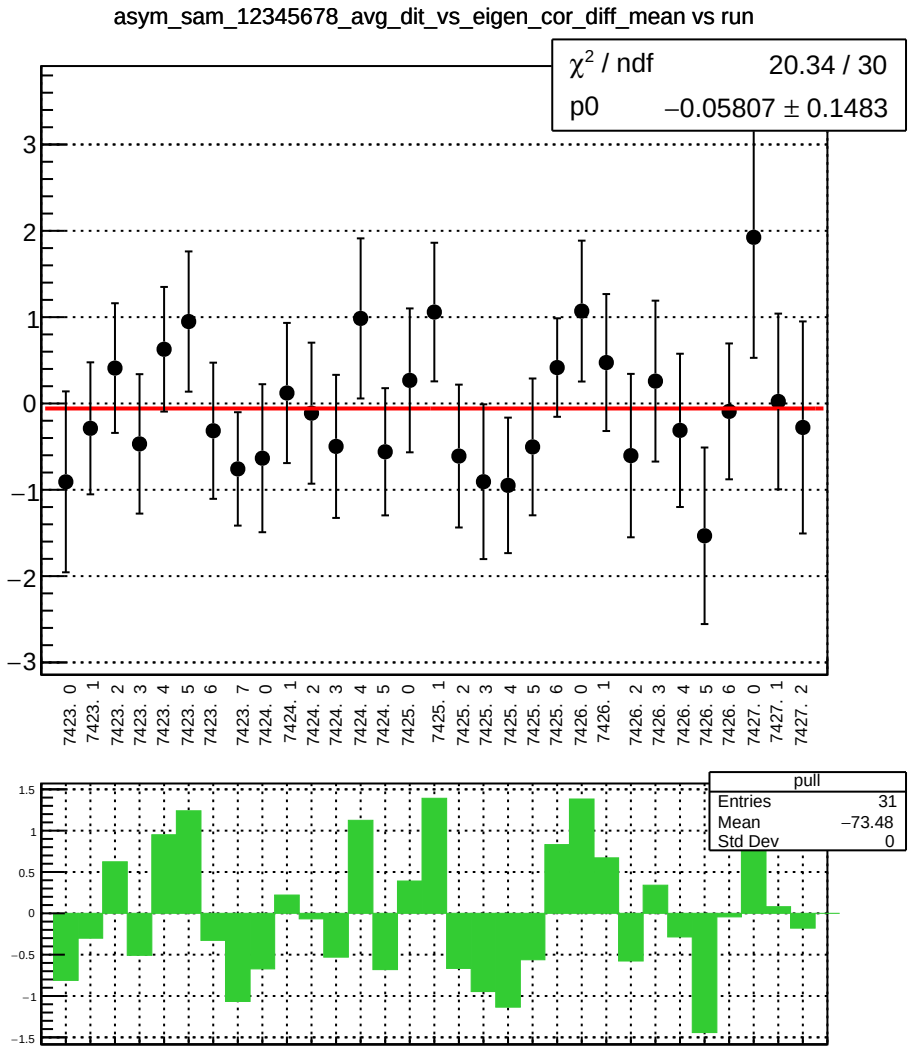

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 30.32 / 30
p0 −8.778e−14 ± 7.11e−14
0.001
0.0005
0
−0.0005
−0.001
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 11.04
Std Dev 1.807
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

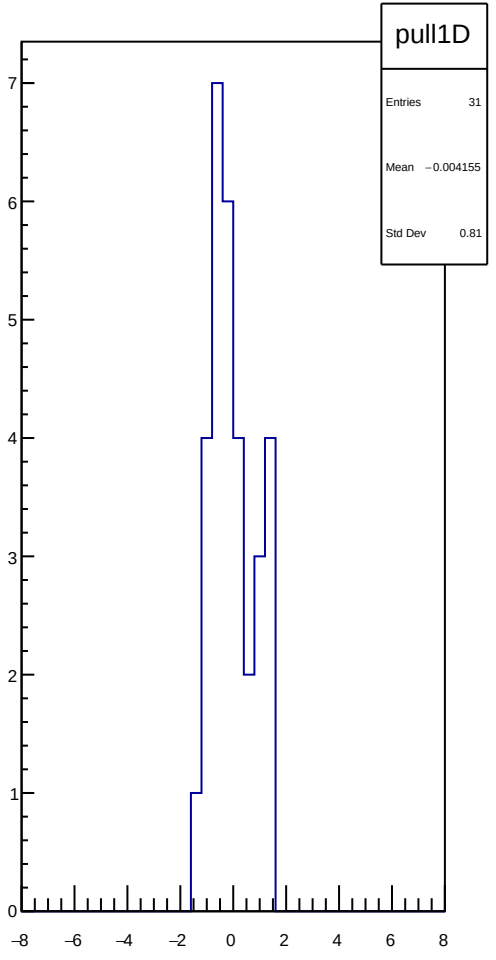

pull1D
Entries 31
Mean −0.2067
Std Dev 0.9672
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

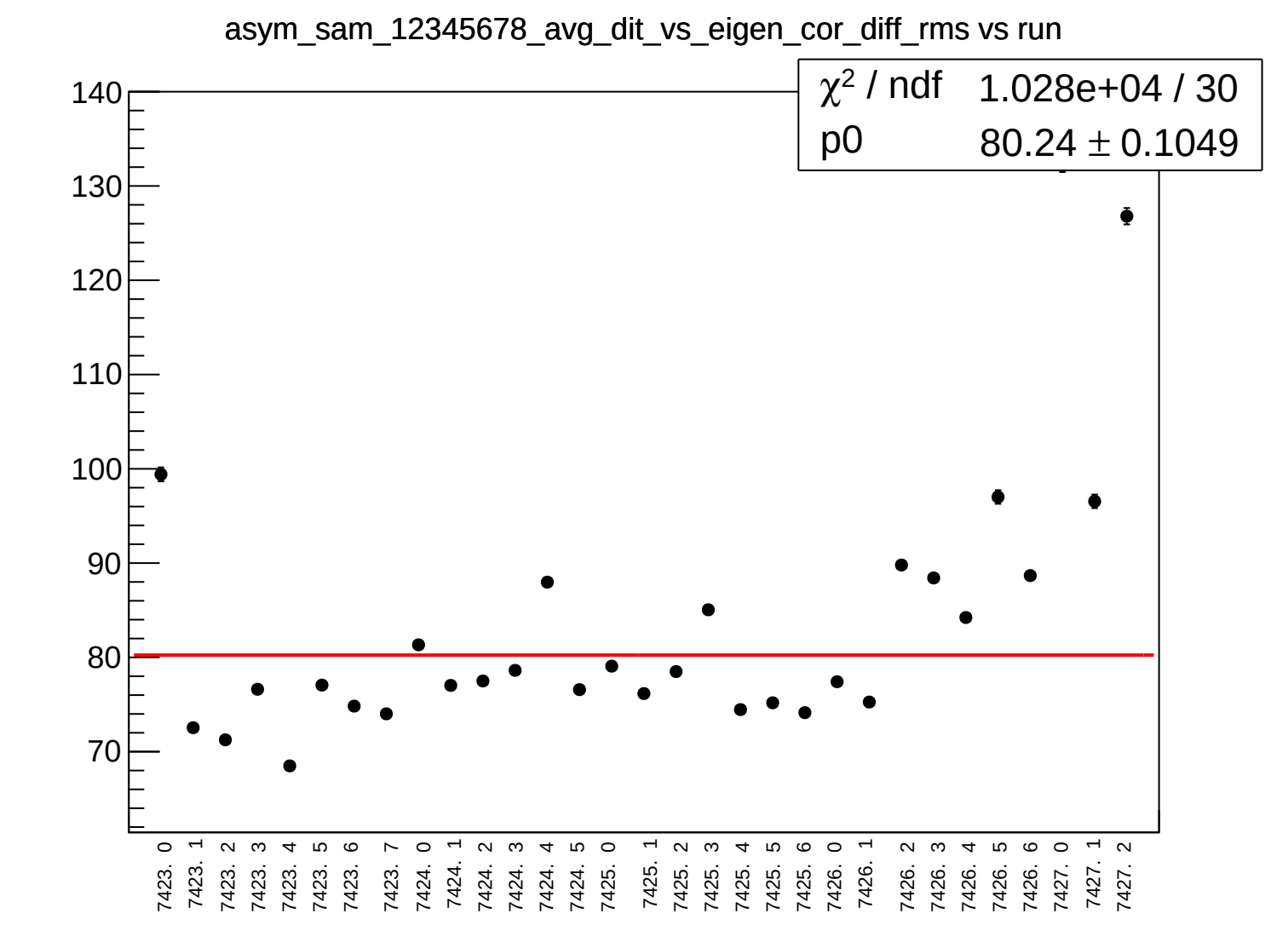

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.957e+05 / 30
p0 1.588e−11 ± 5.028e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

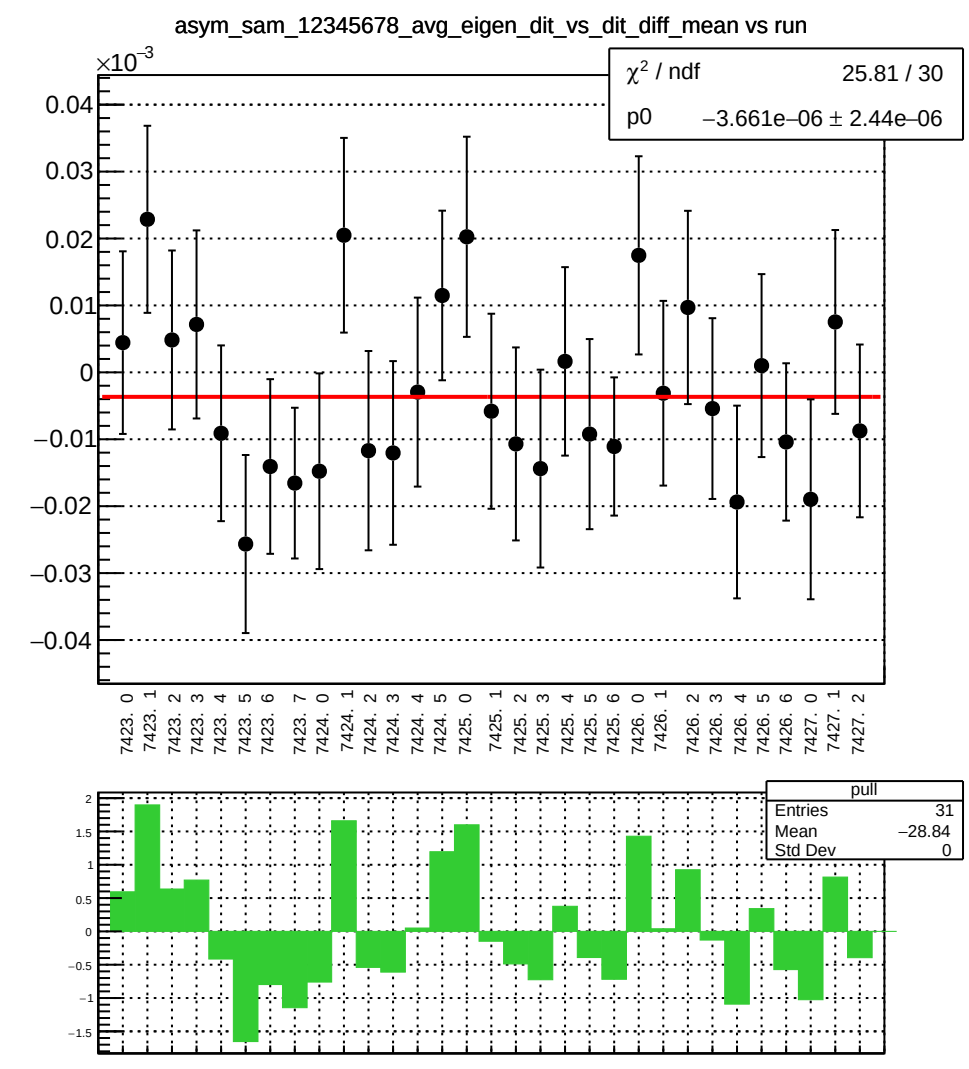

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.34 / 30
p0 −0.05807 ± 0.1483
pull
Entries 31
Mean −73.48
Std Dev 0
pull1D
Entries 31
Mean −0.004155
Std Dev 0.81

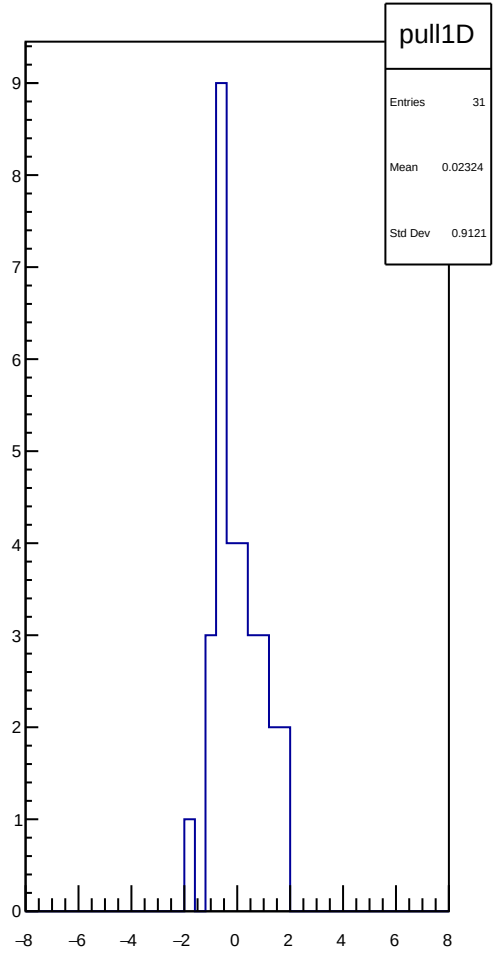

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.028e+04 / 30
p0 80.24 ± 0.1049
140
130
120
110
100
90
80
70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

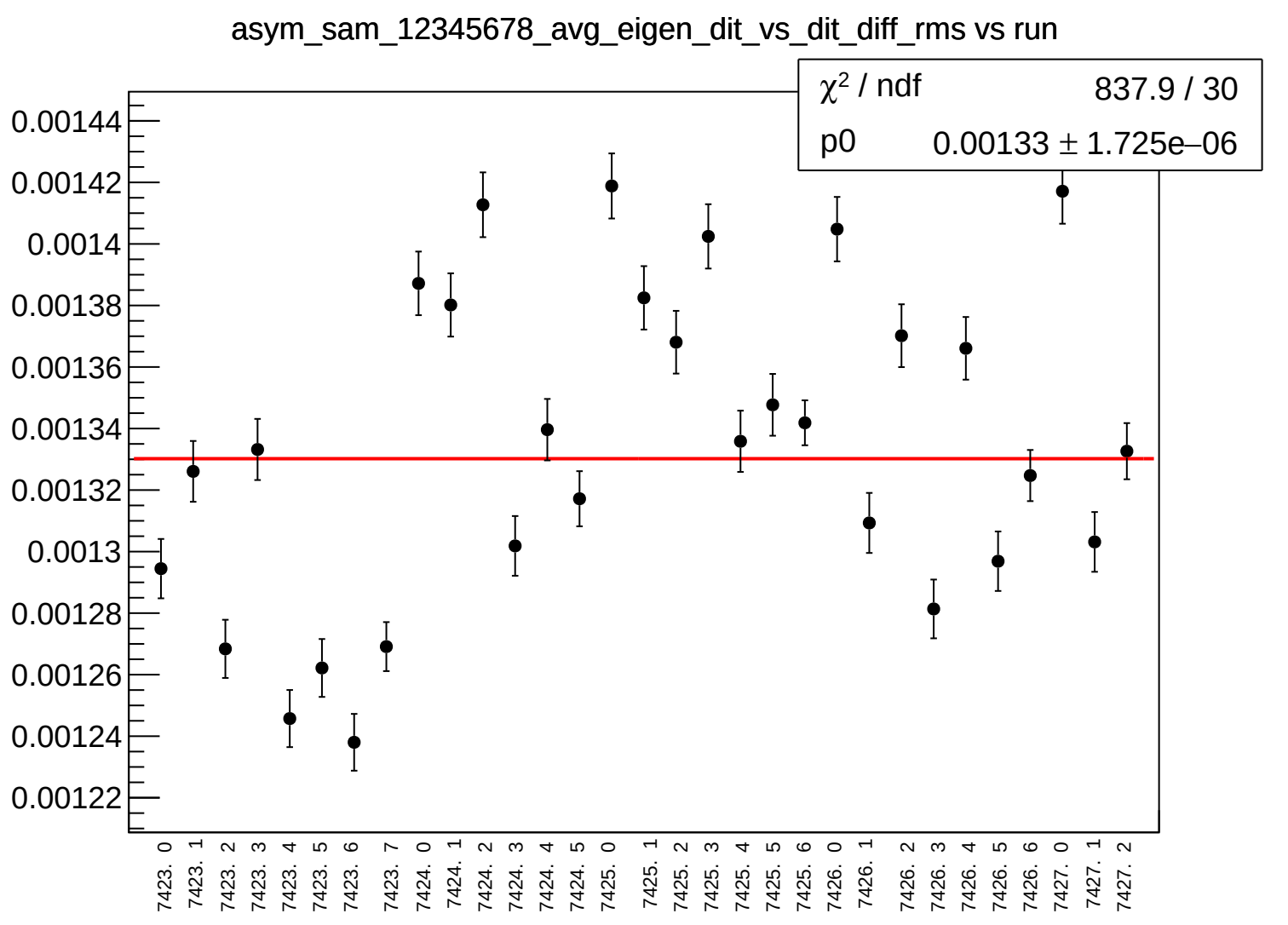

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.34 / 30
p0 −0.05807 ± 0.1483
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −73.48
Std Dev 0

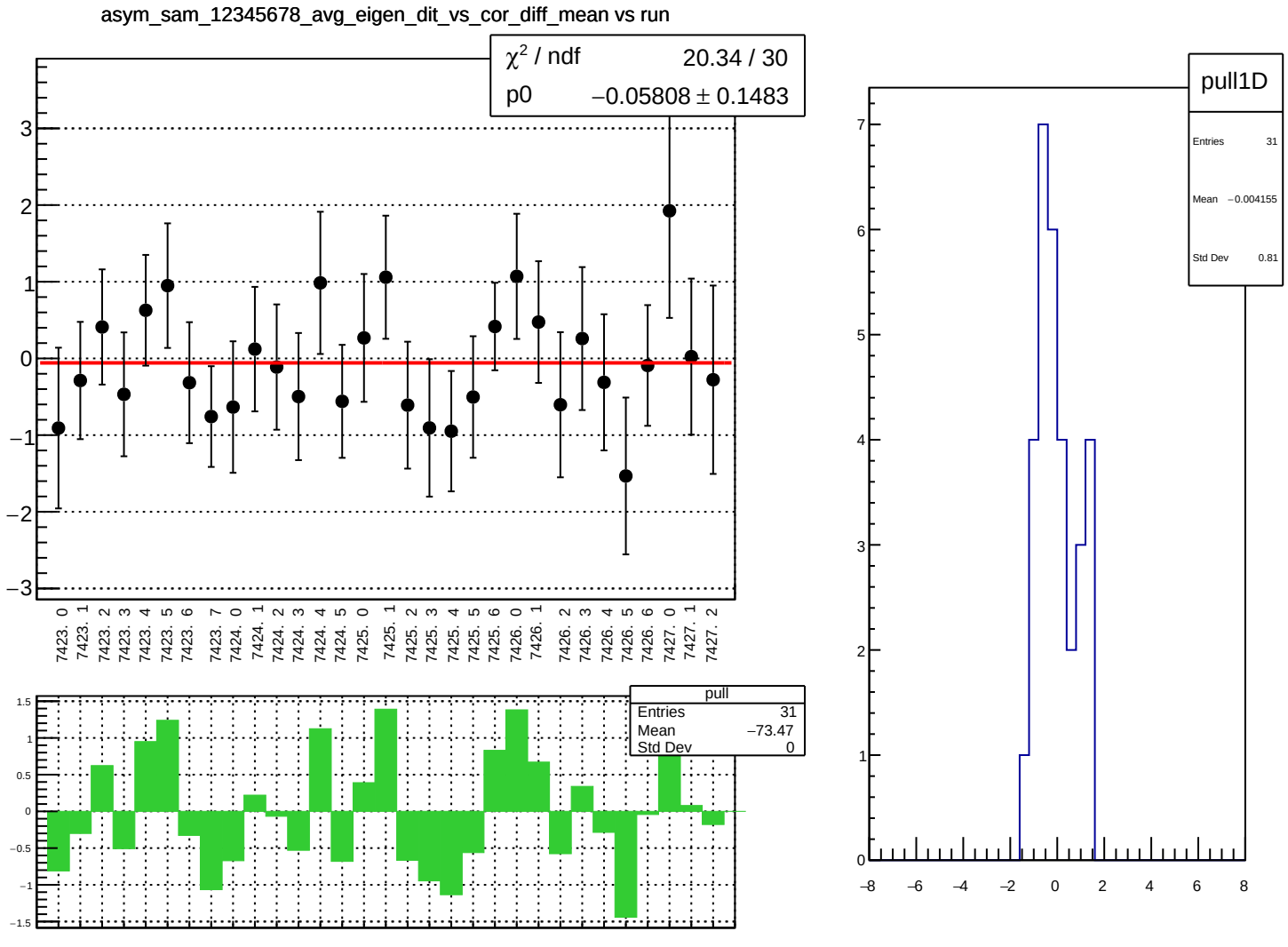

pull1D
Entries 31
Mean −0.004155
Std Dev 0.81

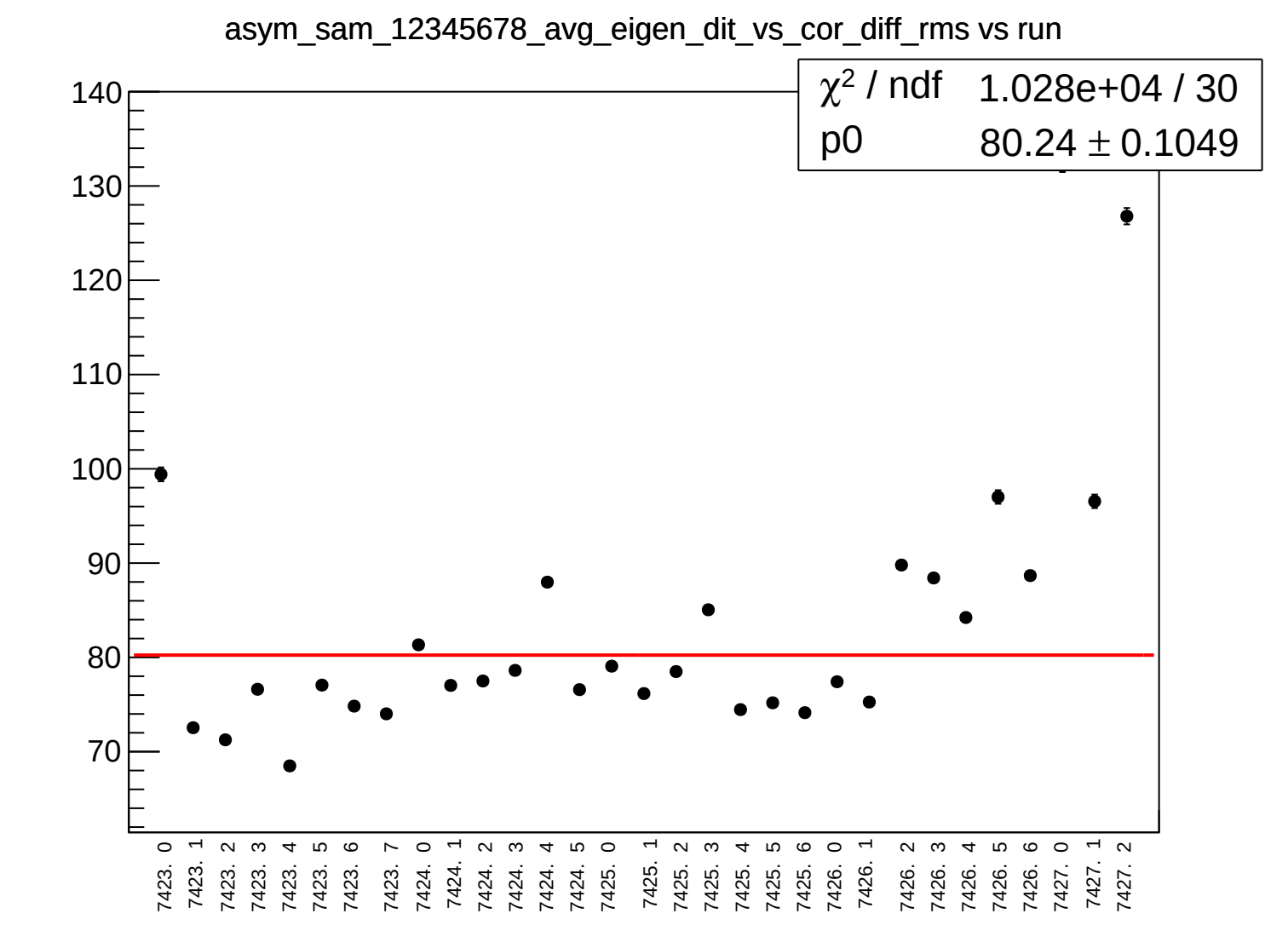

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.028e+04 / 30
p0 80.24 ± 0.1049
140
130
120
110
100
90
80
70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

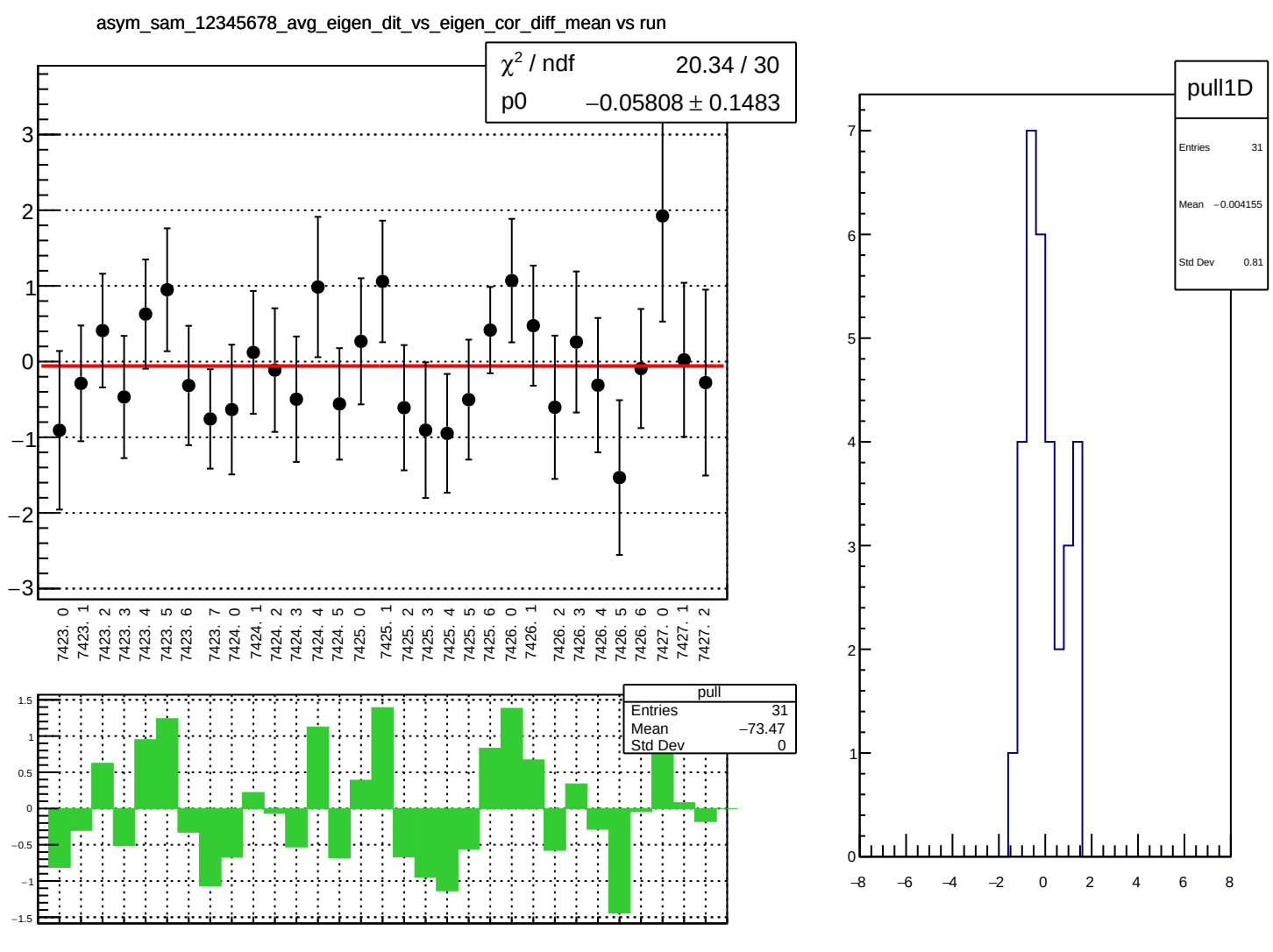

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.81 / 30
p0 −3.661e−06 ± 2.44e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −28.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

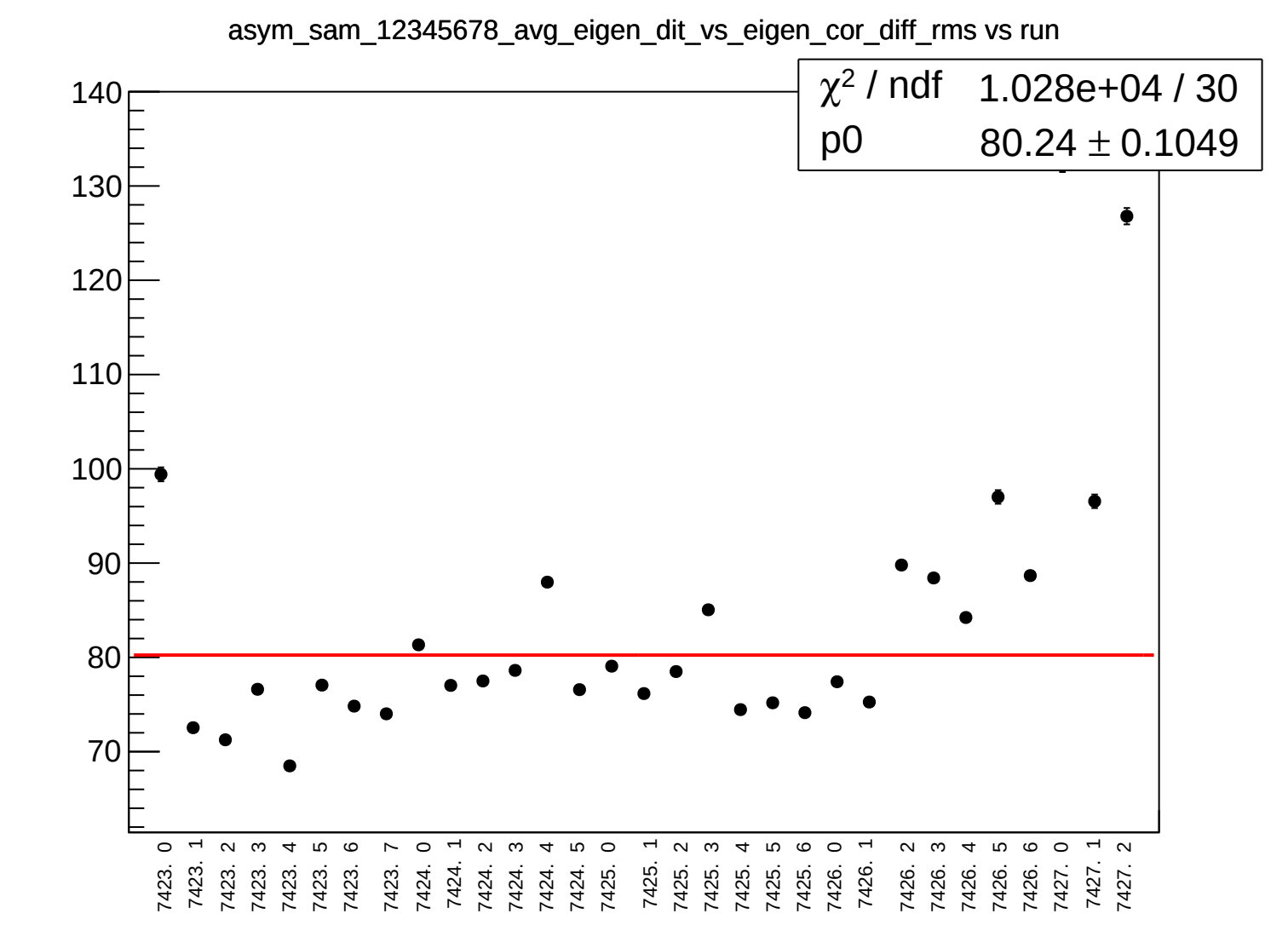

pull1D
Entries 31
Mean 0.02324
Std Dev 0.9121
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

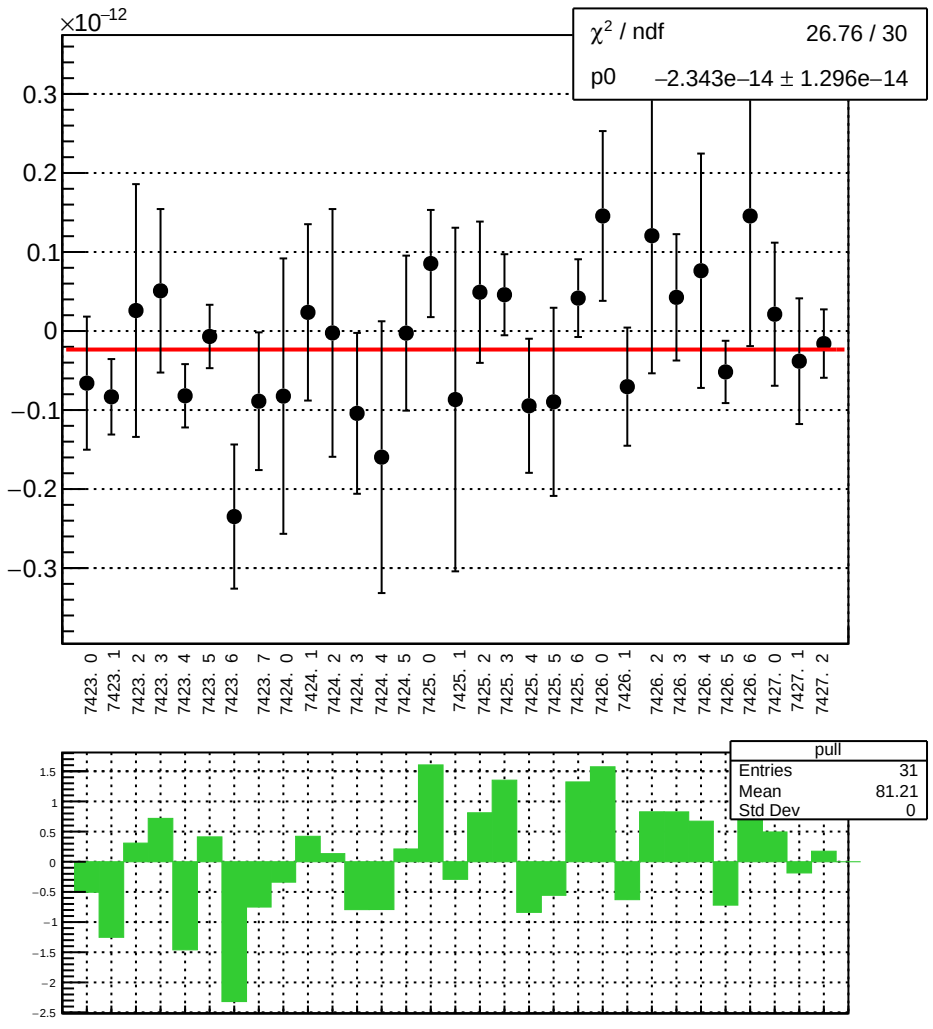

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 837.9 / 30
p0 0.00133 ± 1.725e−06
0.00144
0.00142
0.0014
0.00138
0.00136
0.00134
0.00132
0.0013
0.00128
0.00126
0.00124
0.00122
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

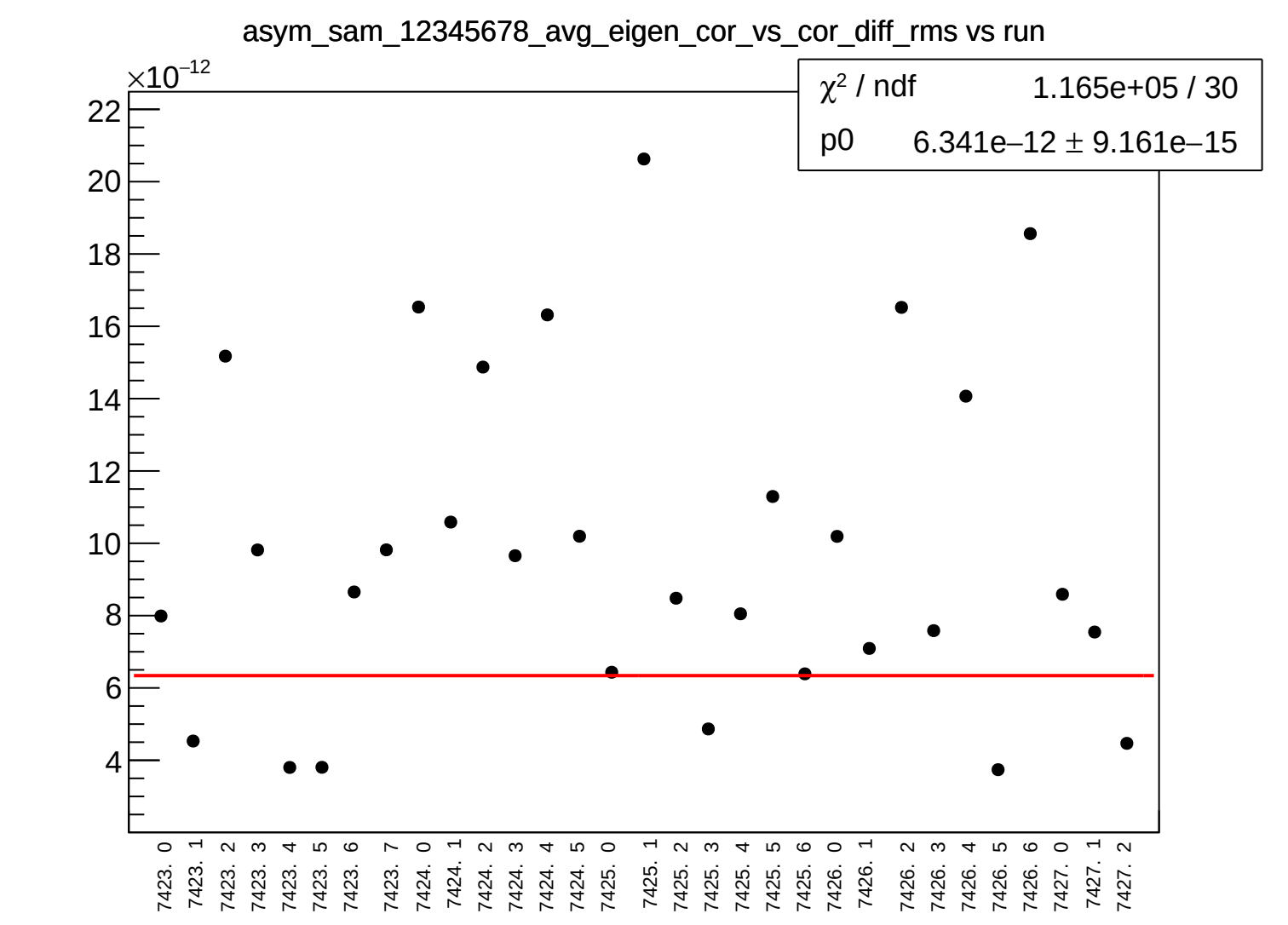

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.34 / 30
p0 −0.05808 ± 0.1483
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −73.47
Std Dev 0
pull1D
Entries 31
Mean −0.004155
Std Dev 0.81

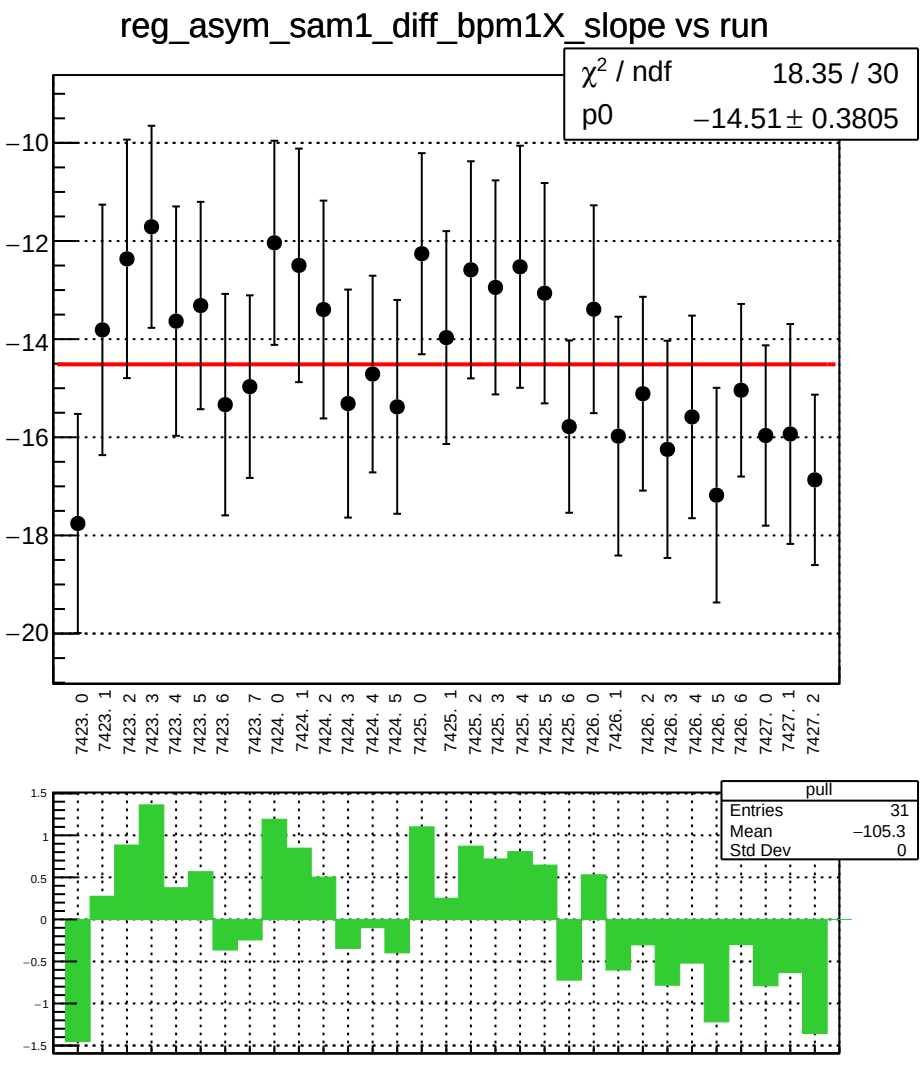

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.028e+04 / 30
p0 80.24 ± 0.1049
140
130
120
110
100
90
80
70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

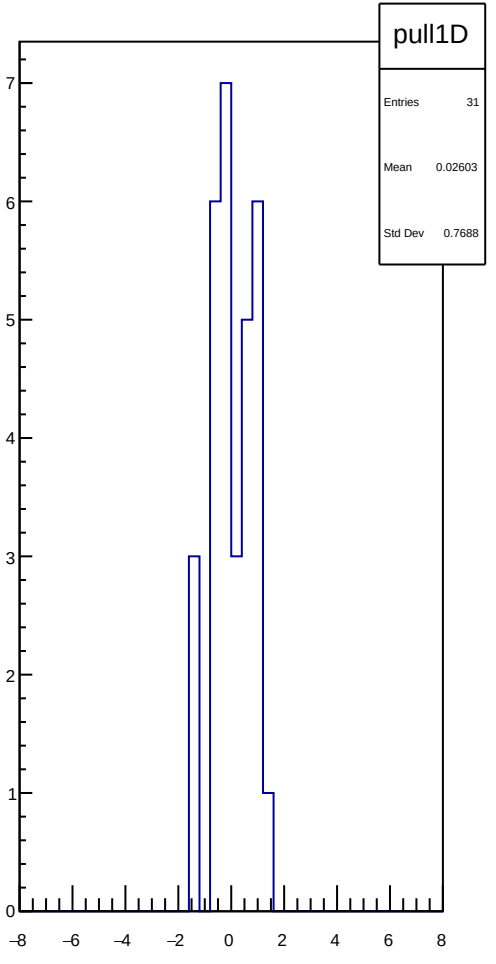

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.34 / 30
p0 −0.05808 ± 0.1483
pull
Entries 31
Mean −73.47
Std Dev 0
pull1D
Entries 31
Mean −0.004155
Std Dev 0.81

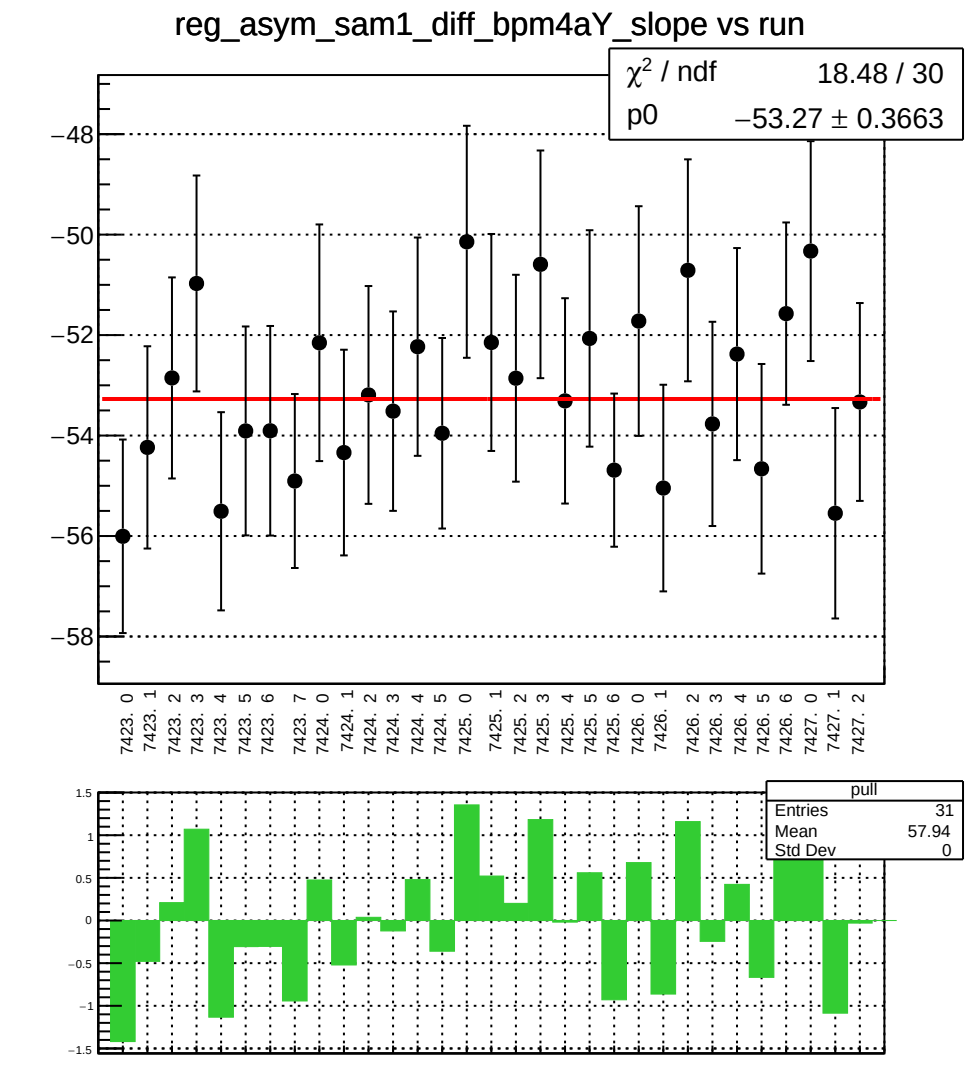

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.028e+04 / 30
p0 80.24 ± 0.1049
140
130
120
110
100
90
80
70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

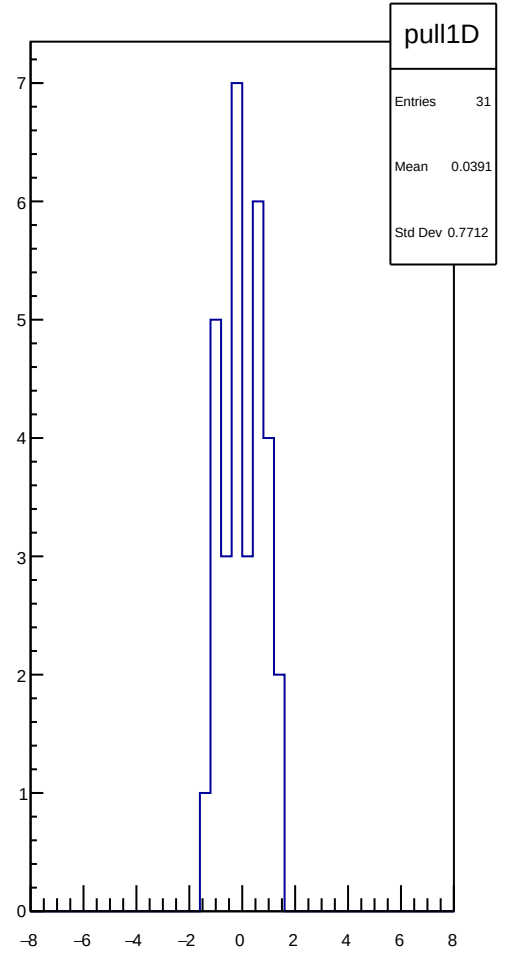

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 26.76 / 30
p0 −2.343e−14 ± 1.296e−14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 81.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.04714
Std Dev 0.9279
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

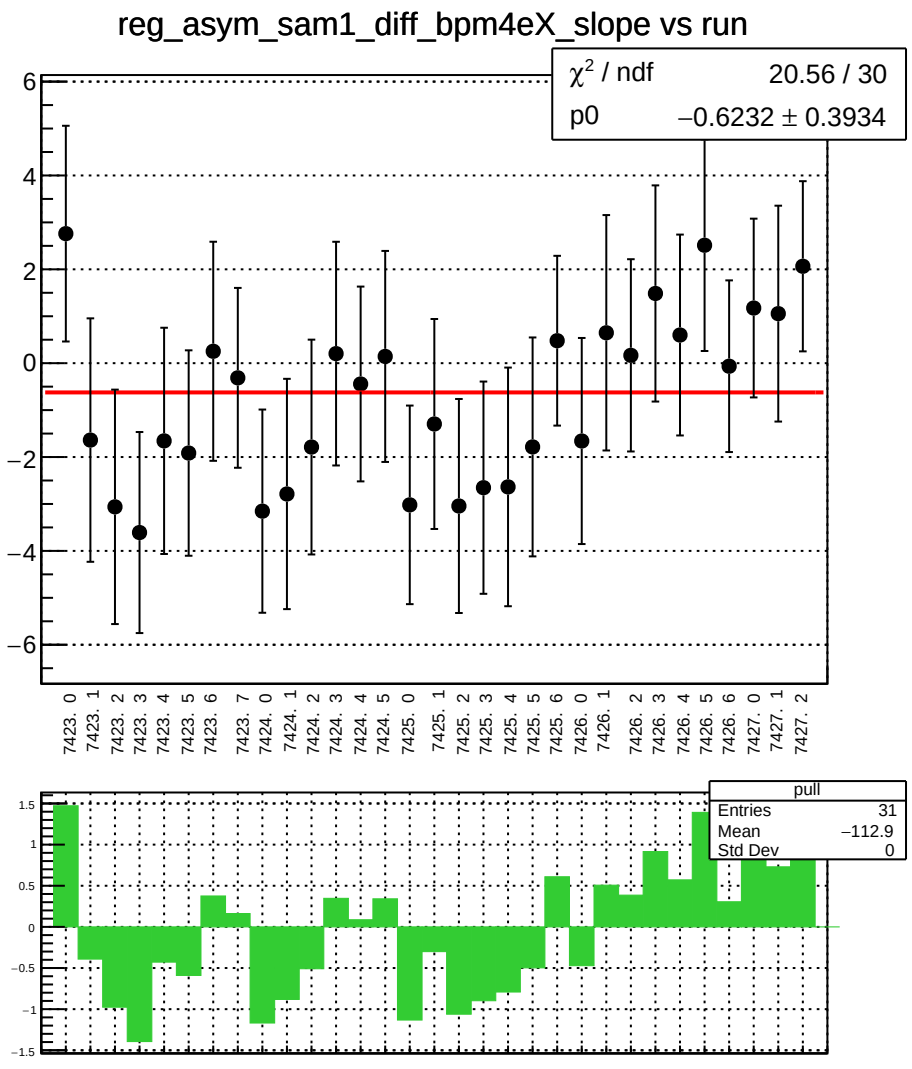

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.165e+05 / 30
p0 6.341e−12 ± 9.161e−15
22
20
18
16
14
12
10
8
6
4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

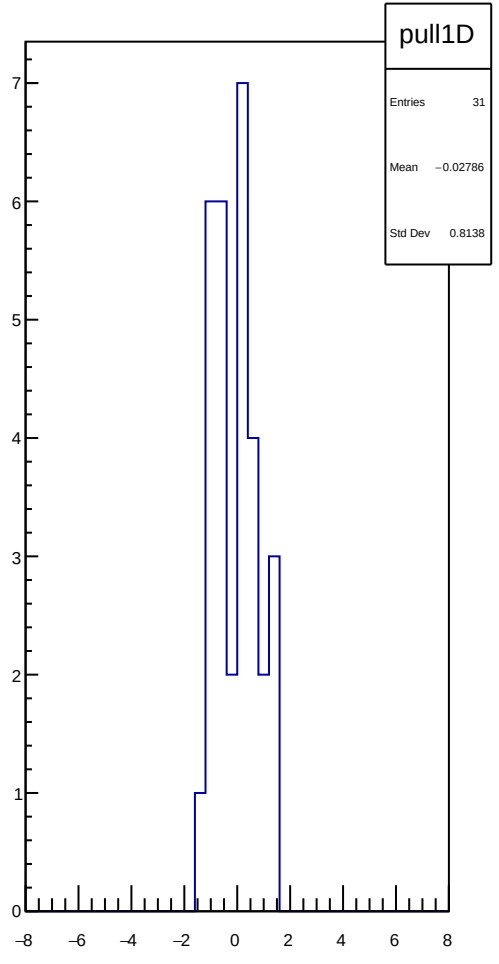

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 18.35 / 30
p0 −14.51 ± 0.3805
−10
−12
−14
−16
−18
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −105.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

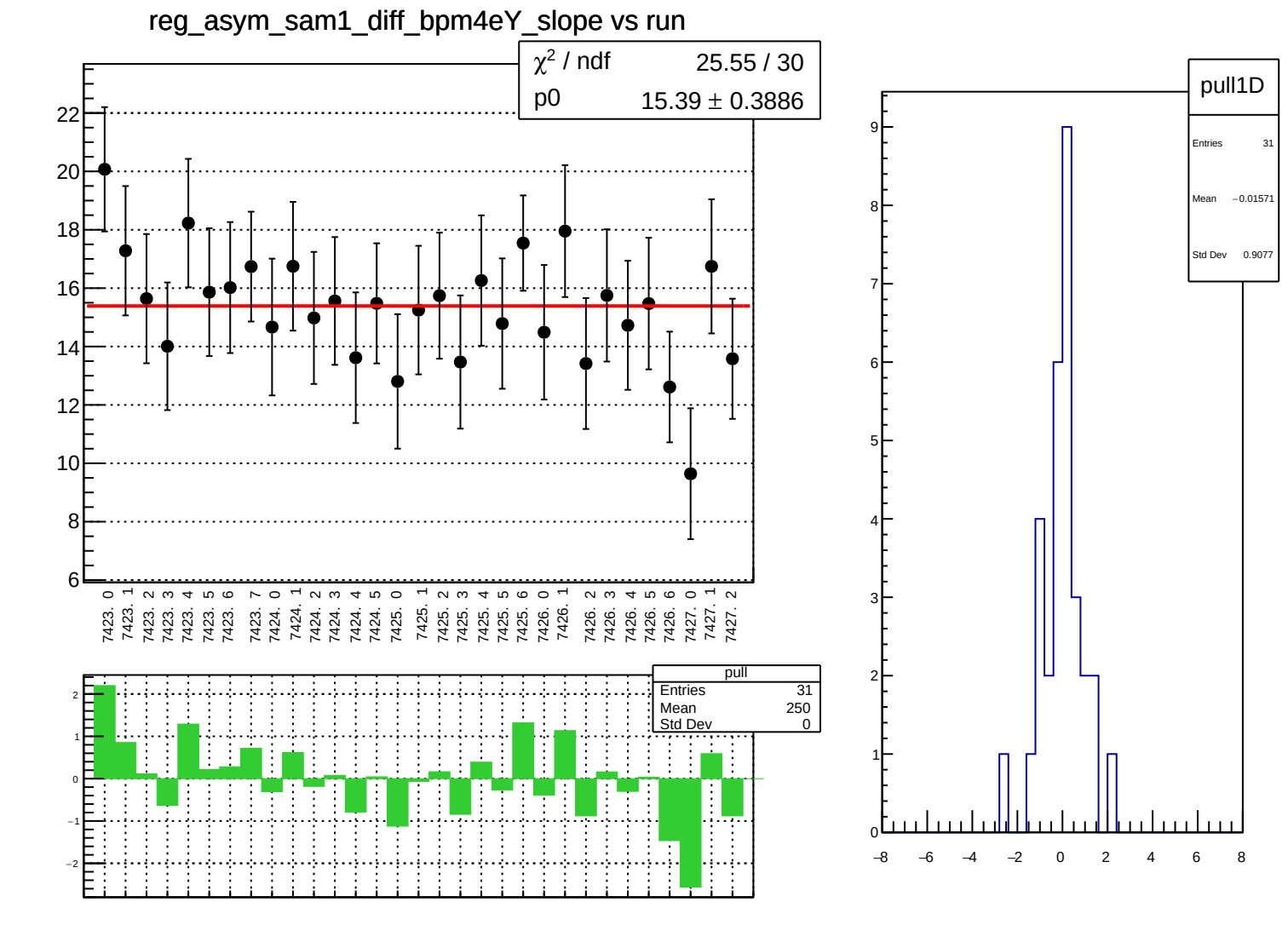

pull1D
Entries 31
Mean 0.02603
Std Dev 0.7688
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

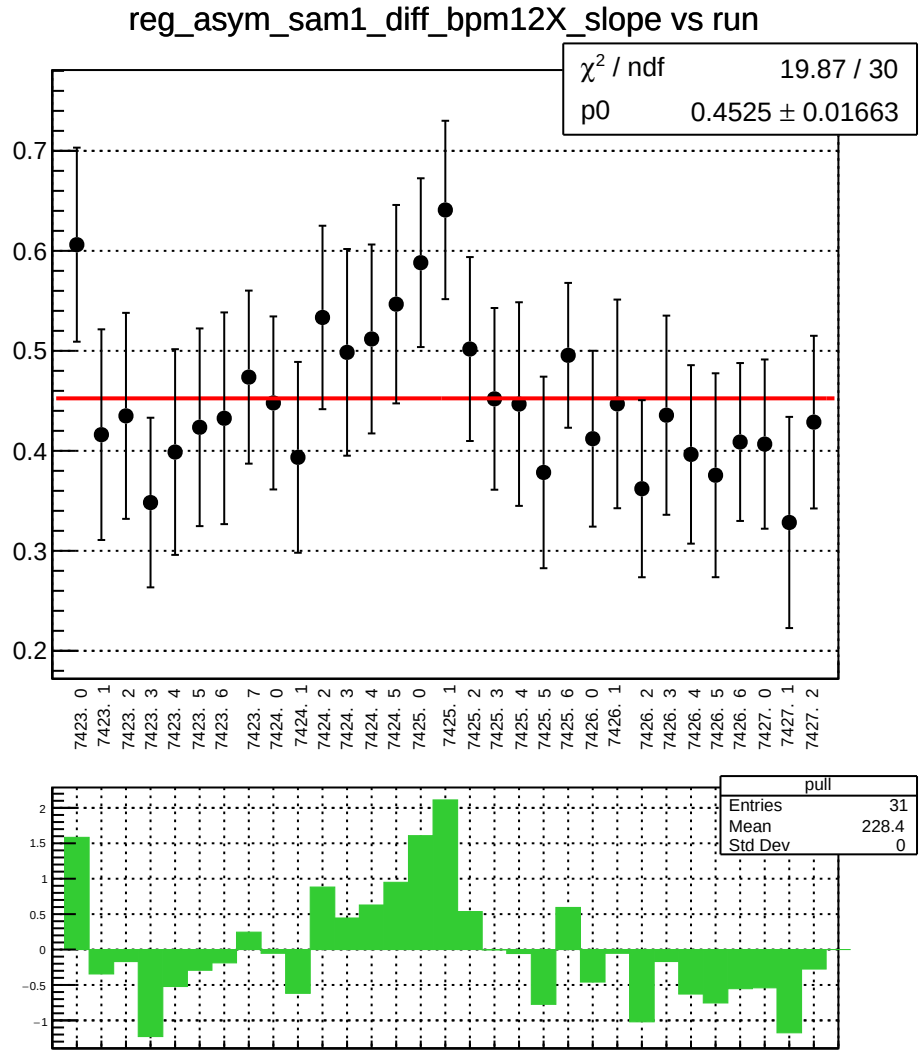

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 18.48 / 30
p0 −53.27 ± 0.3663
−48
−50
−52
−54
−56
−58
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 57.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

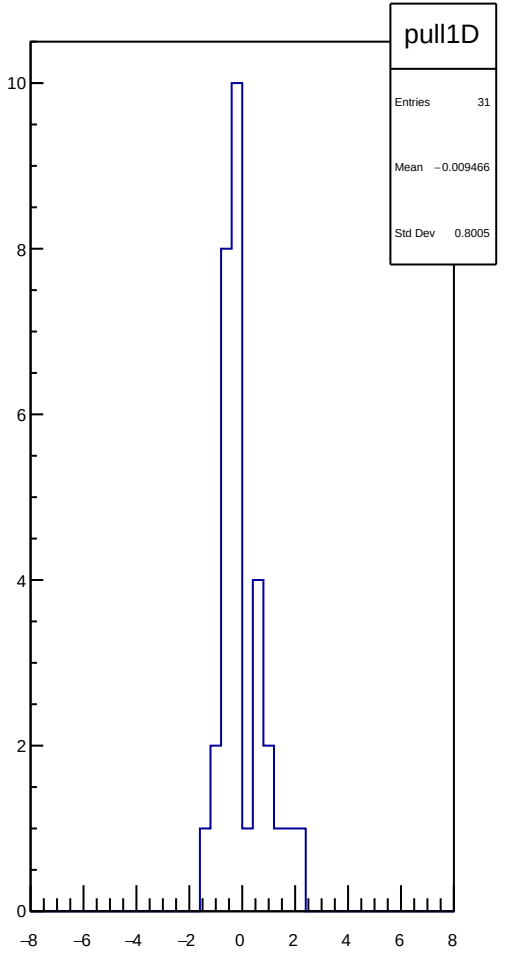

pull1D
Entries 31
Mean 0.0391
Std Dev 0.7712
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

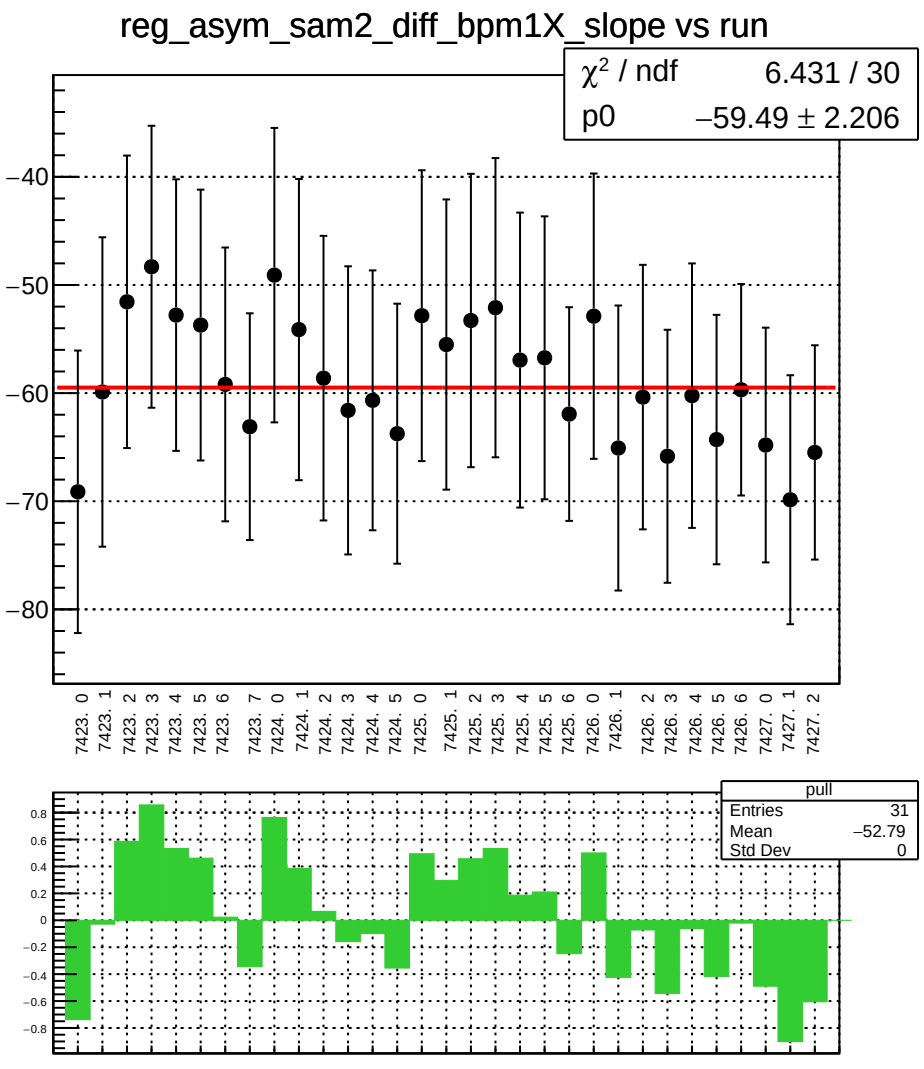

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 20.56 / 30
p0 −0.6232 ± 0.3934
pull
Entries 31
Mean −112.9
Std Dev 0

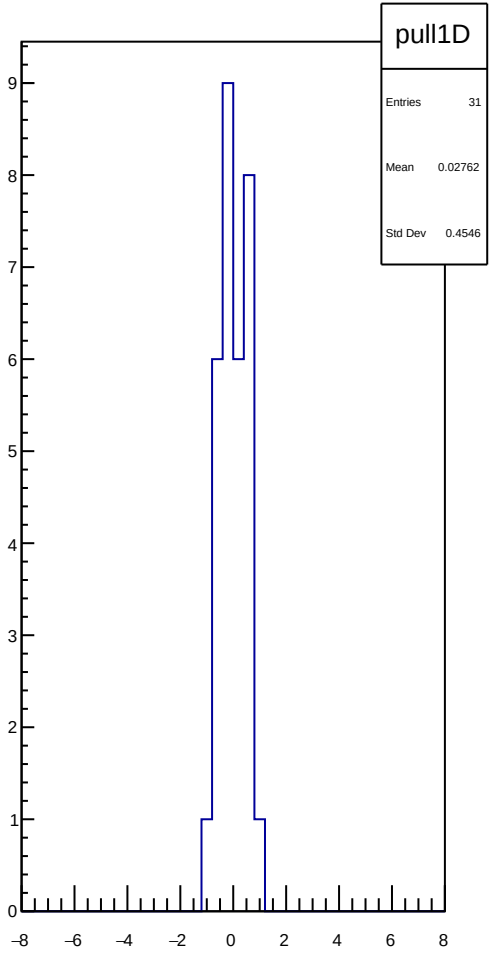

pull1D
Entries 31
Mean −0.02786
Std Dev 0.8138

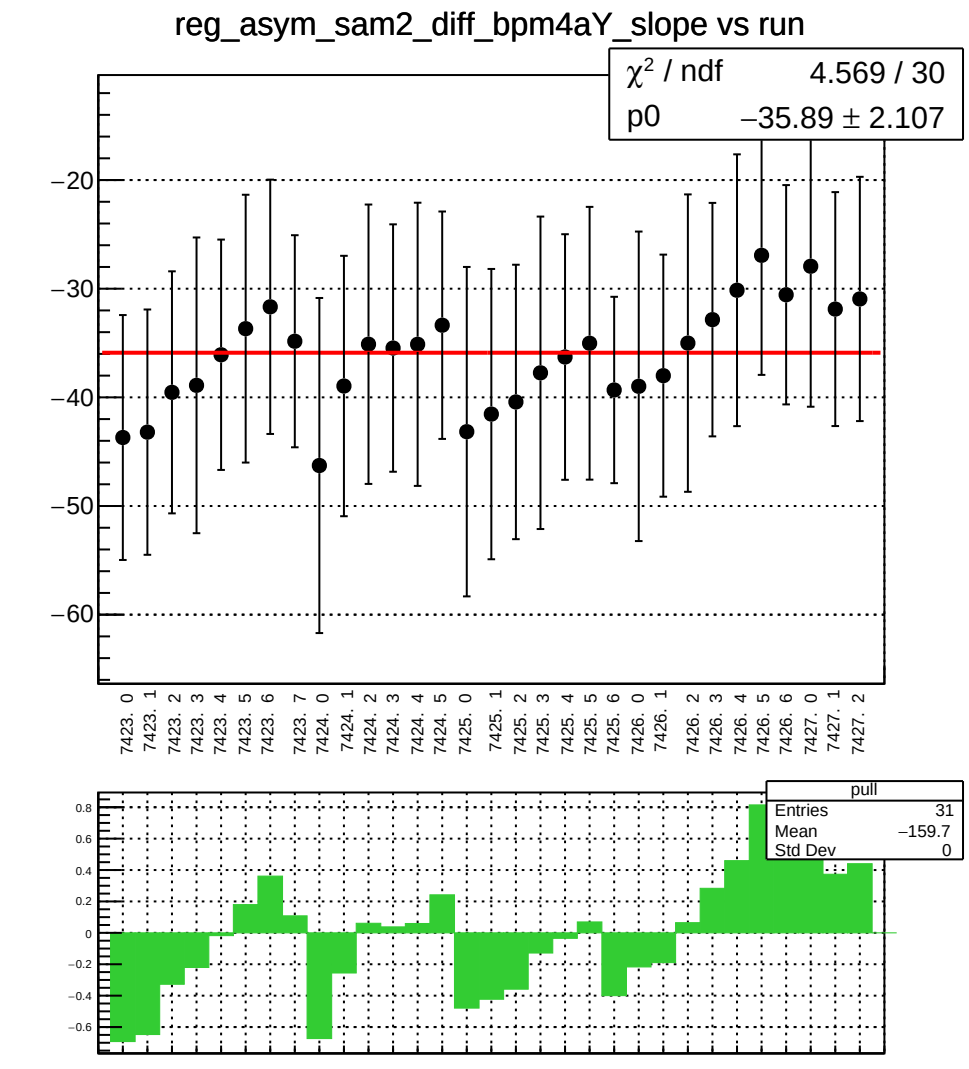

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 25.55 / 30
p0 15.39 ± 0.3886
pull
Entries 31
Mean 250
Std Dev 0
pull1D
Entries 31
Mean −0.01571
Std Dev 0.9077

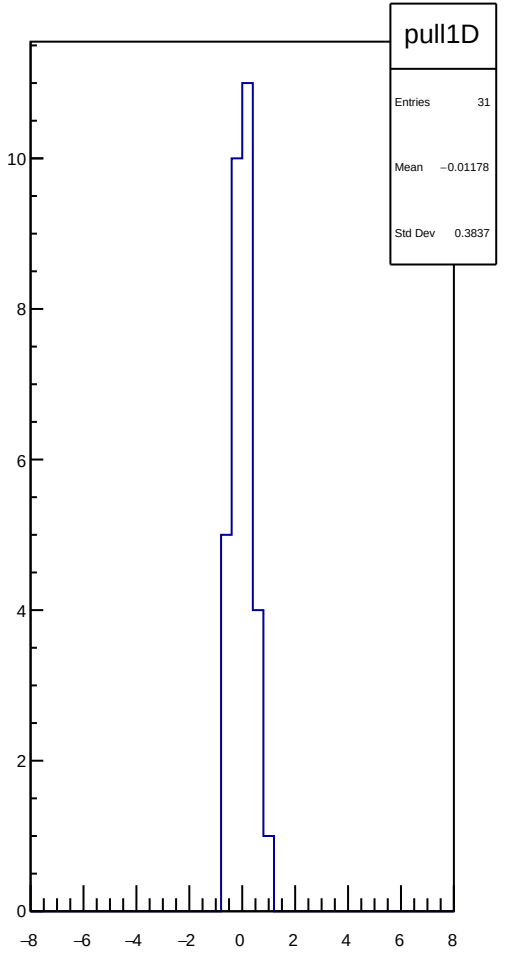

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 19.87 / 30
p0 0.4525 ± 0.01663
0.7
0.6
0.5
0.4
0.3
0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 228.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

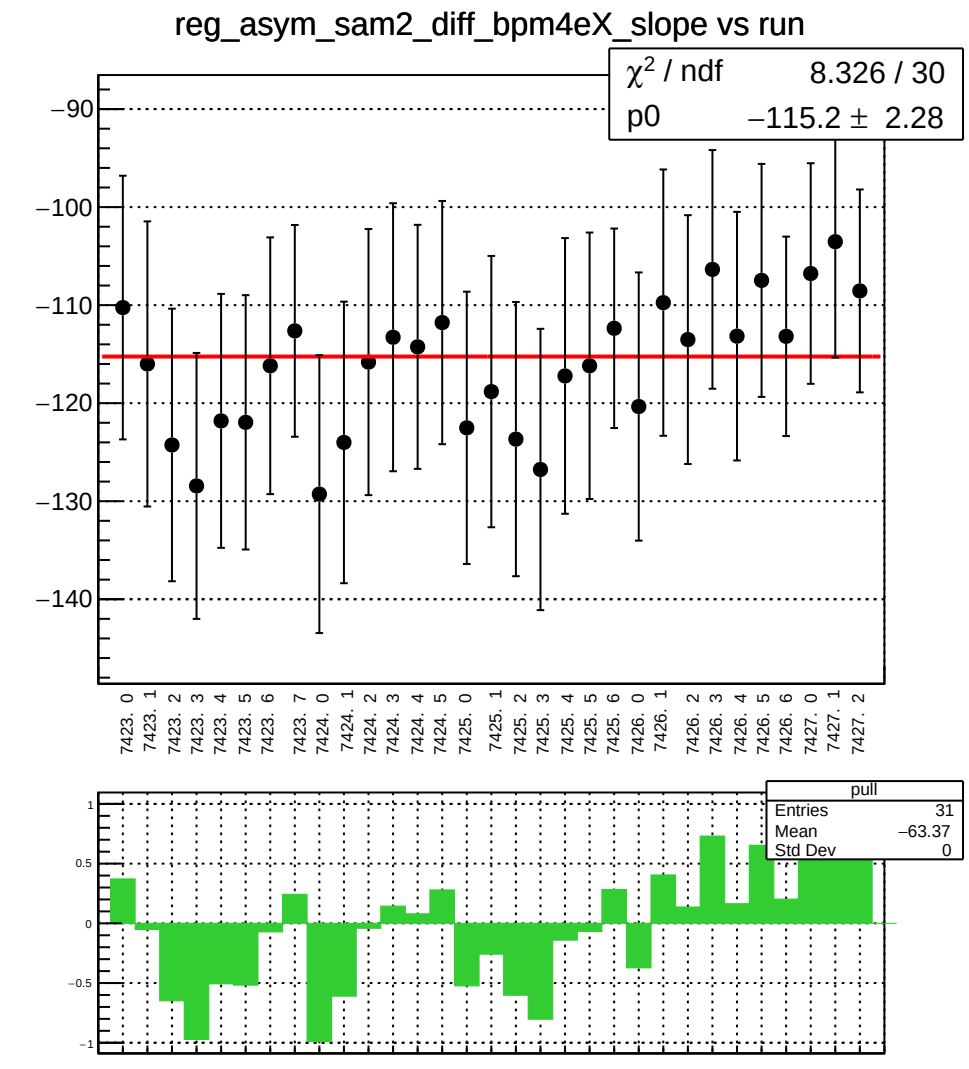

pull1D
Entries 31
Mean −0.009466
Std Dev 0.8005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

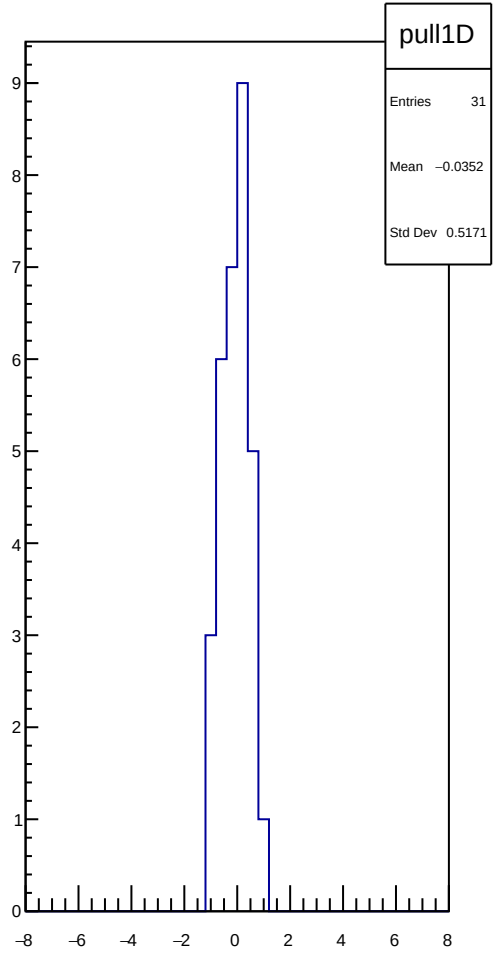

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 6.431 / 30
p0 −59.49 ± 2.206
−40
−50
−60
−70
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −52.79
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

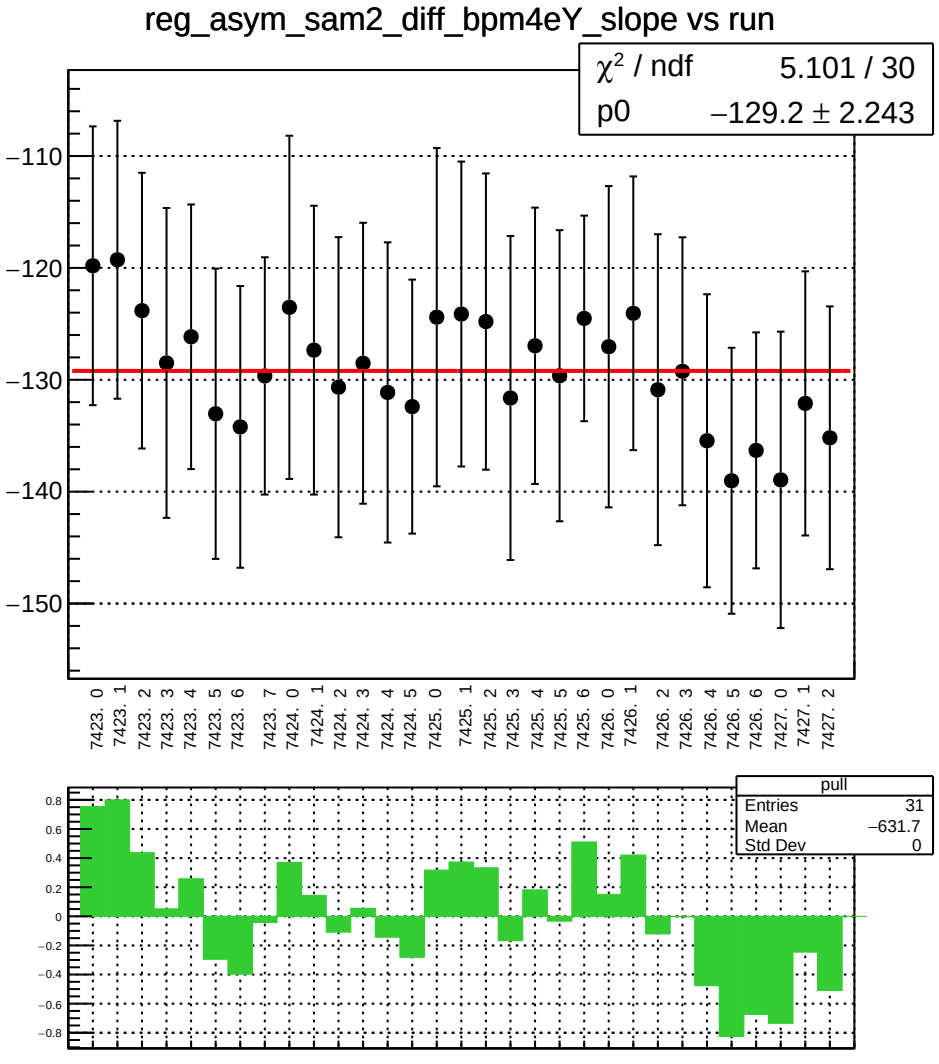

pull1D
Entries 31
Mean 0.02762
Std Dev 0.4546
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

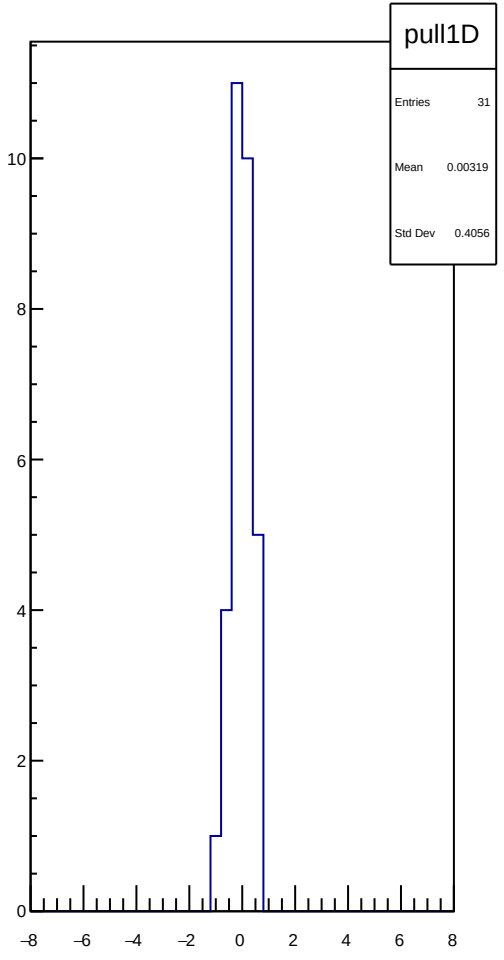

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 4.569 / 30
p0 −35.89 ± 2.107
−20
−30
−40
−50
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −159.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

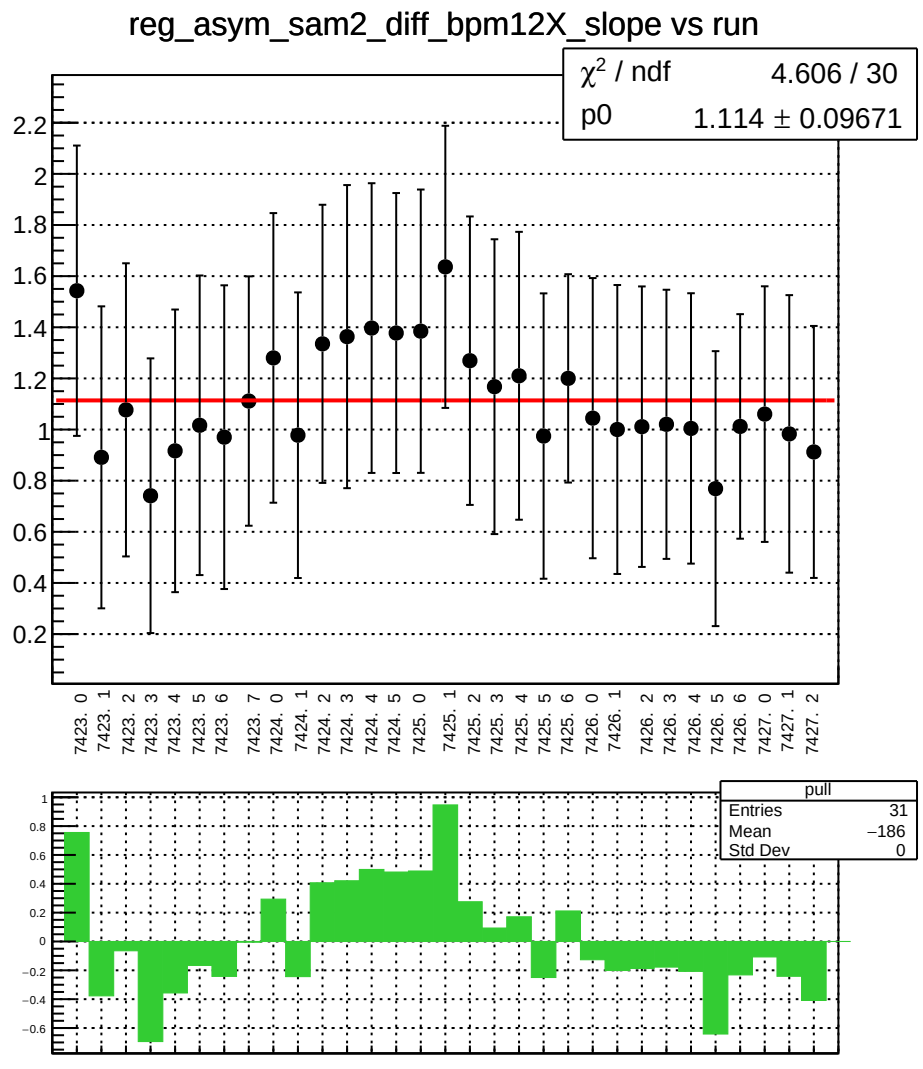

pull1D
Entries 31
Mean −0.01178
Std Dev 0.3837
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

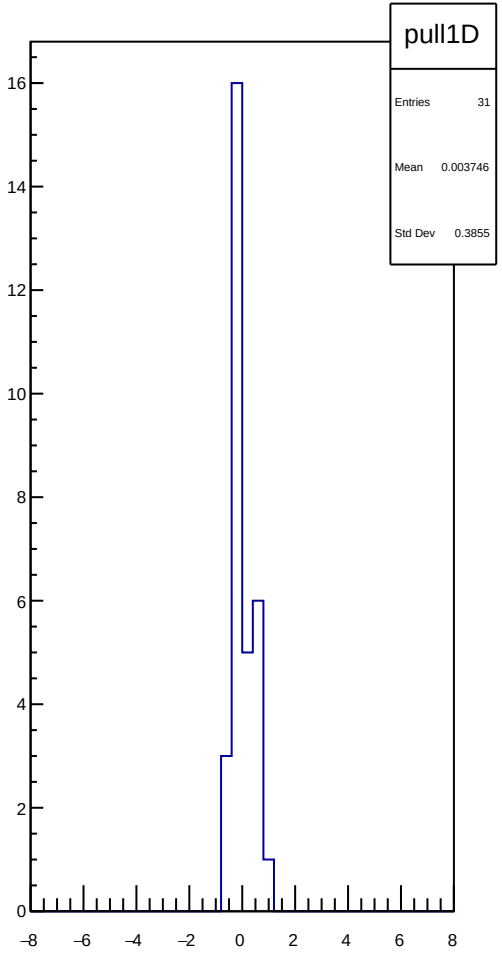

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 8.326 / 30
p0 −115.2 ± 2.28
−90
−100
−110
−120
−130
−140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −63.37
Std Dev 0
1
0.5
0
−0.5
−1

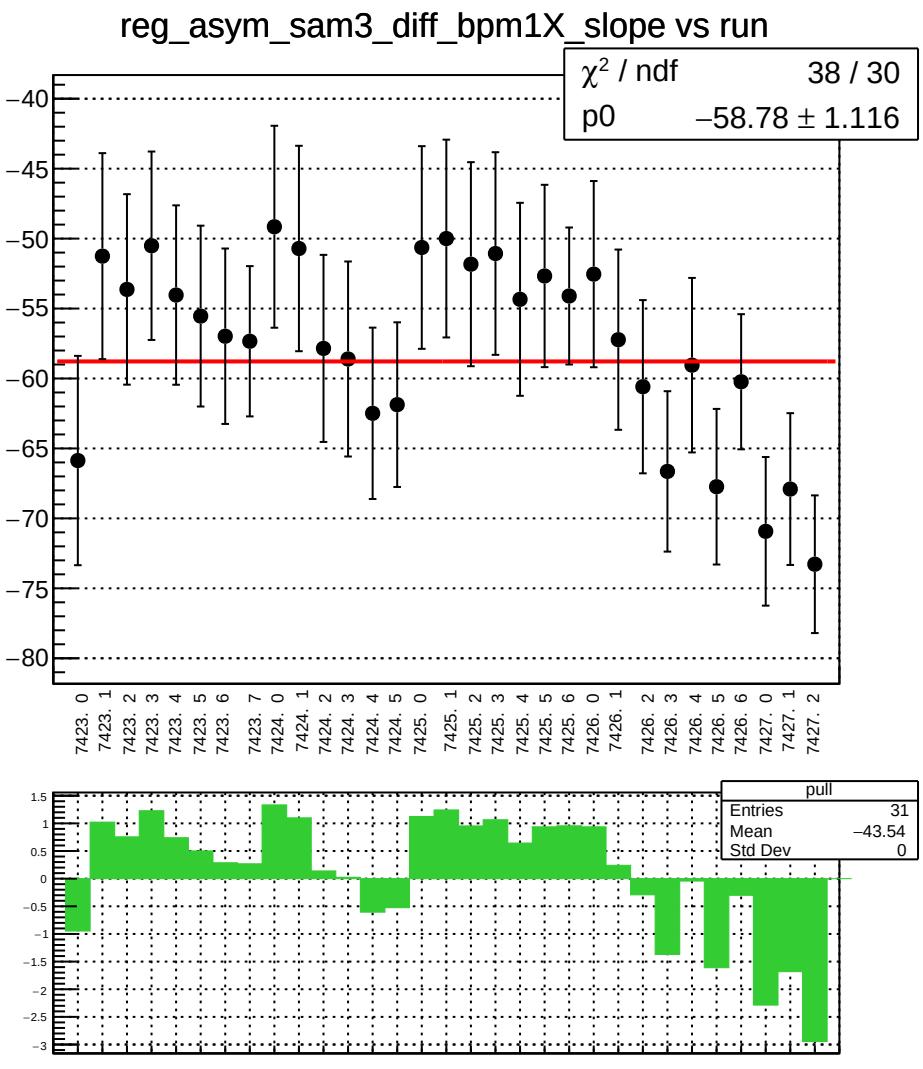

pull1D
Entries 31
Mean −0.0352
Std Dev 0.5171
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

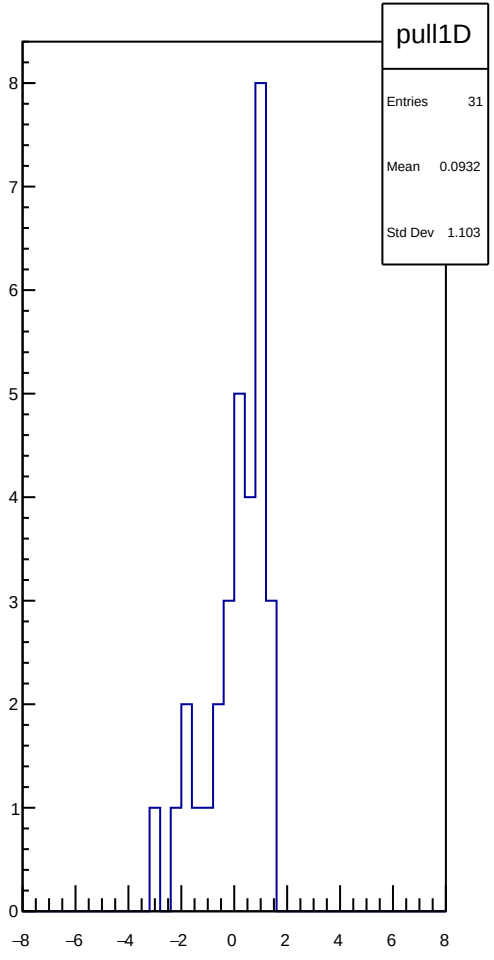

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 5.101 / 30
p0 −129.2 ± 2.243
−110
−120
−130
−140
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −631.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

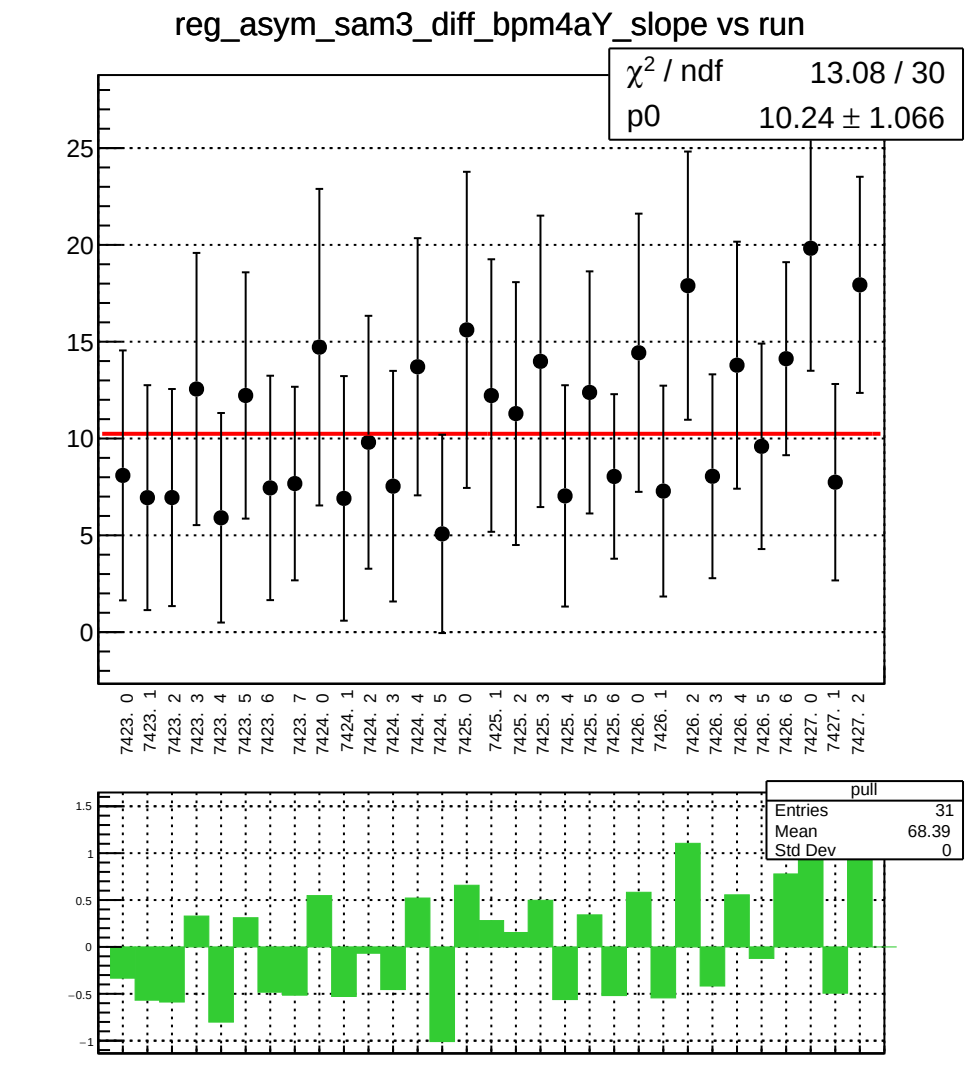

pull1D
Entries 31
Mean 0.00319
Std Dev 0.4056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

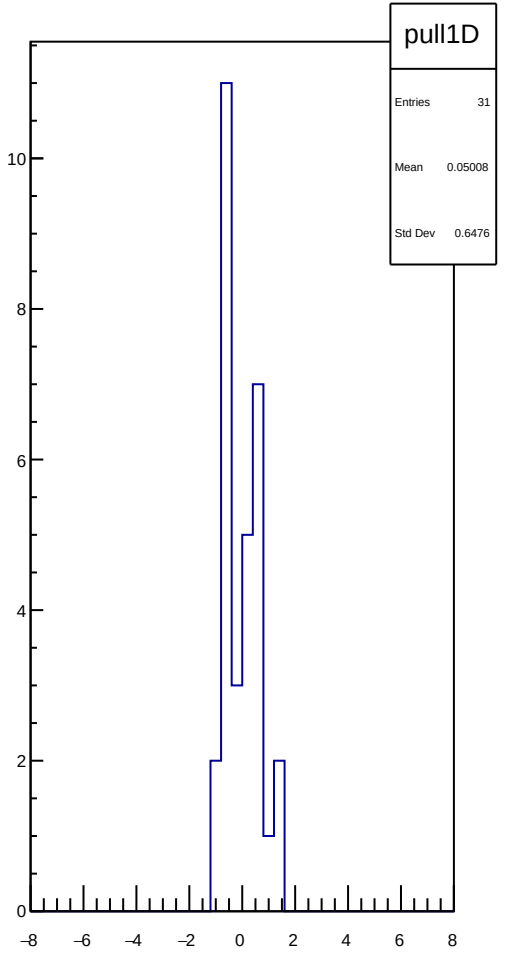

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 4.606 / 30
p0 1.114 ± 0.09671
pull
Entries 31
Mean −186
Std Dev 0

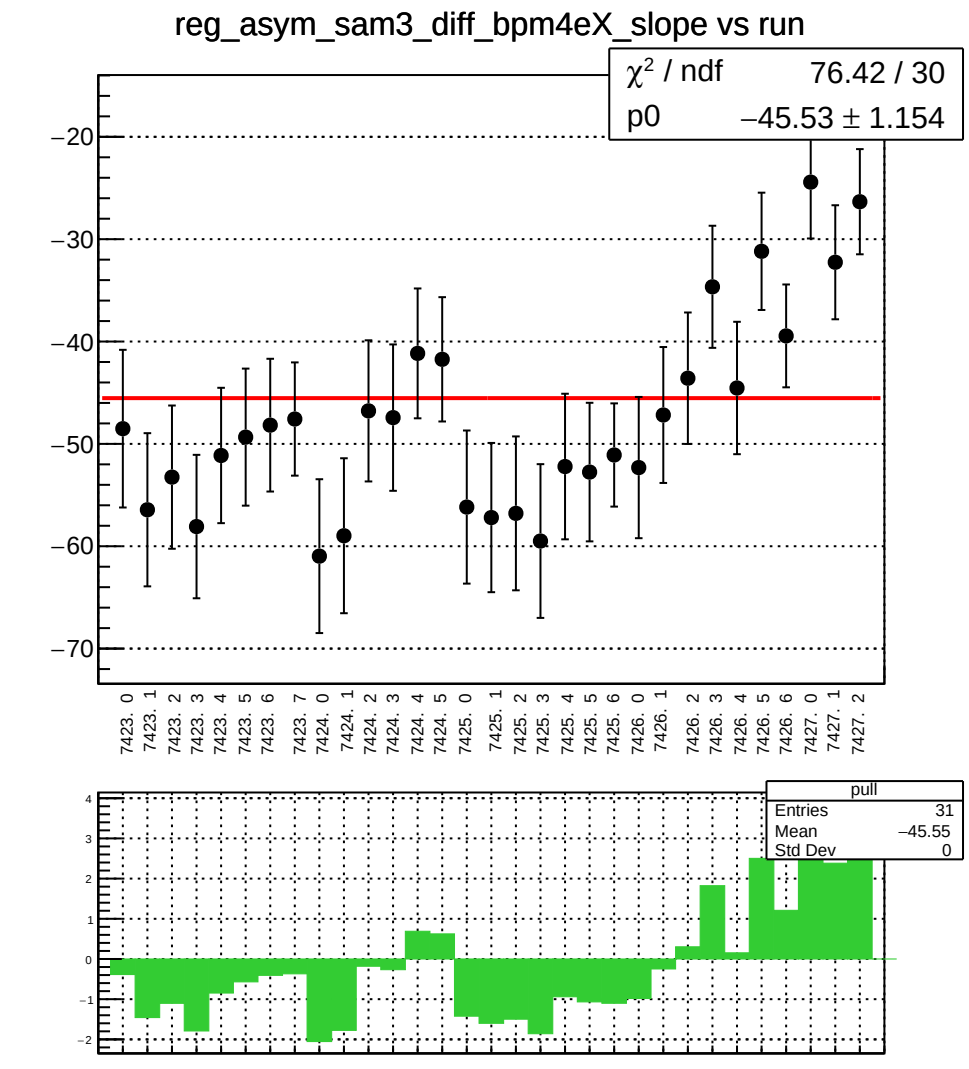

pull1D
Entries 31
Mean 0.003746
Std Dev 0.3855

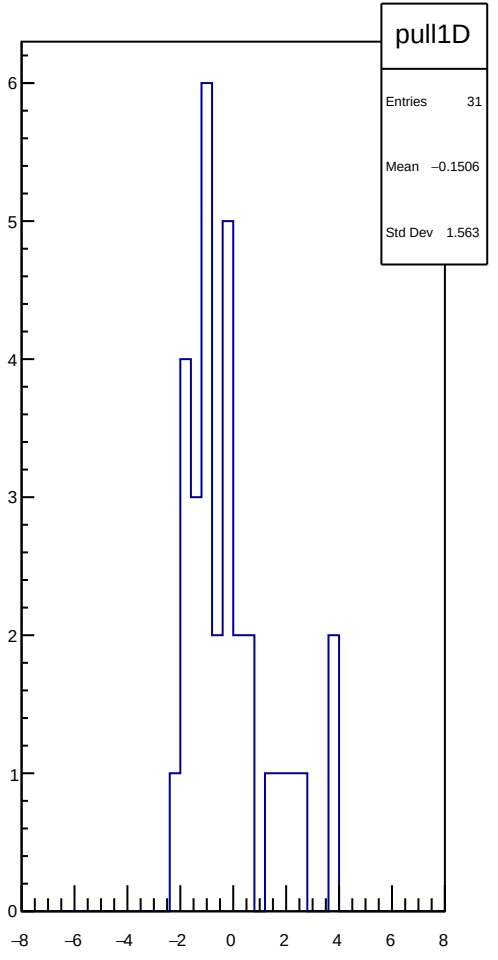

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 38 / 30
p0 −58.78 ± 1.116
pull
Entries 31
Mean −43.54
Std Dev 0

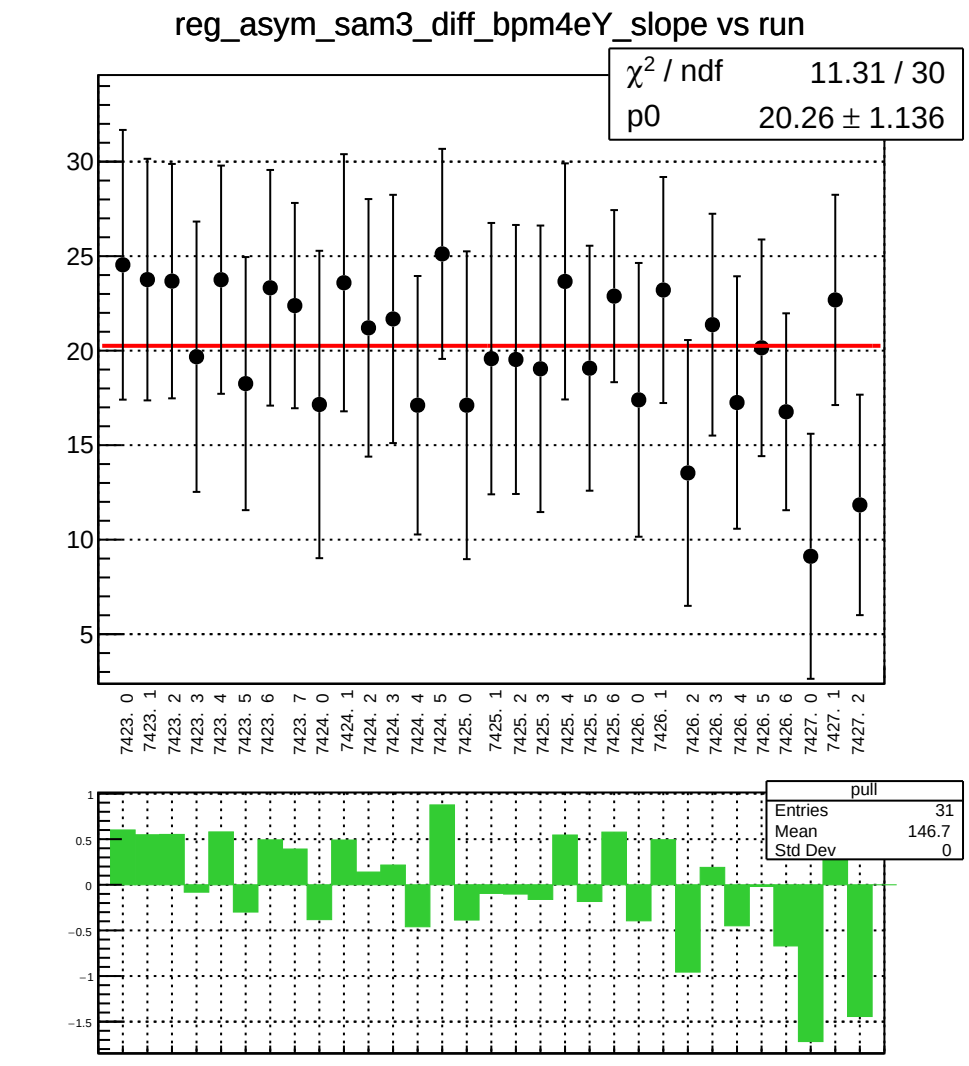

pull1D
Entries 31
Mean 0.0932
Std Dev 1.103

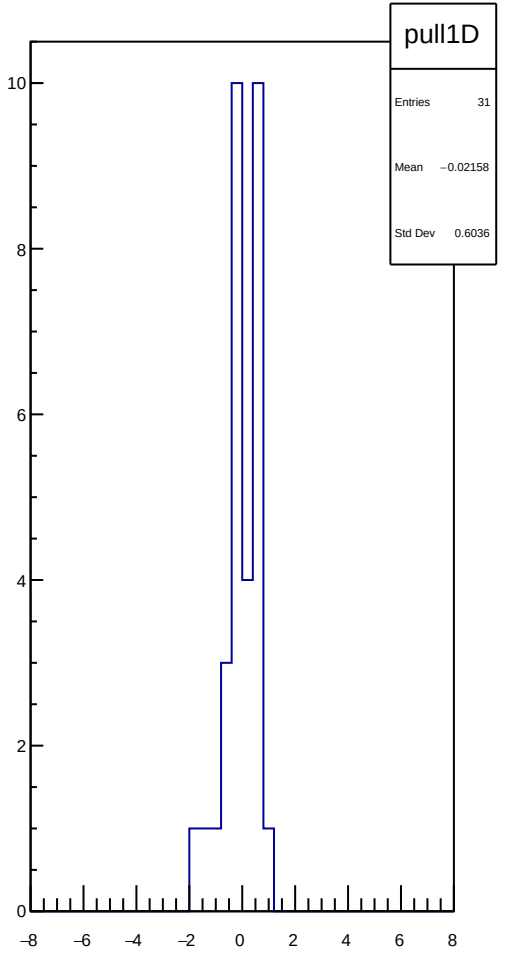

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 13.08 / 30
p0 10.24 ± 1.066
25
20
15
10
5
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1

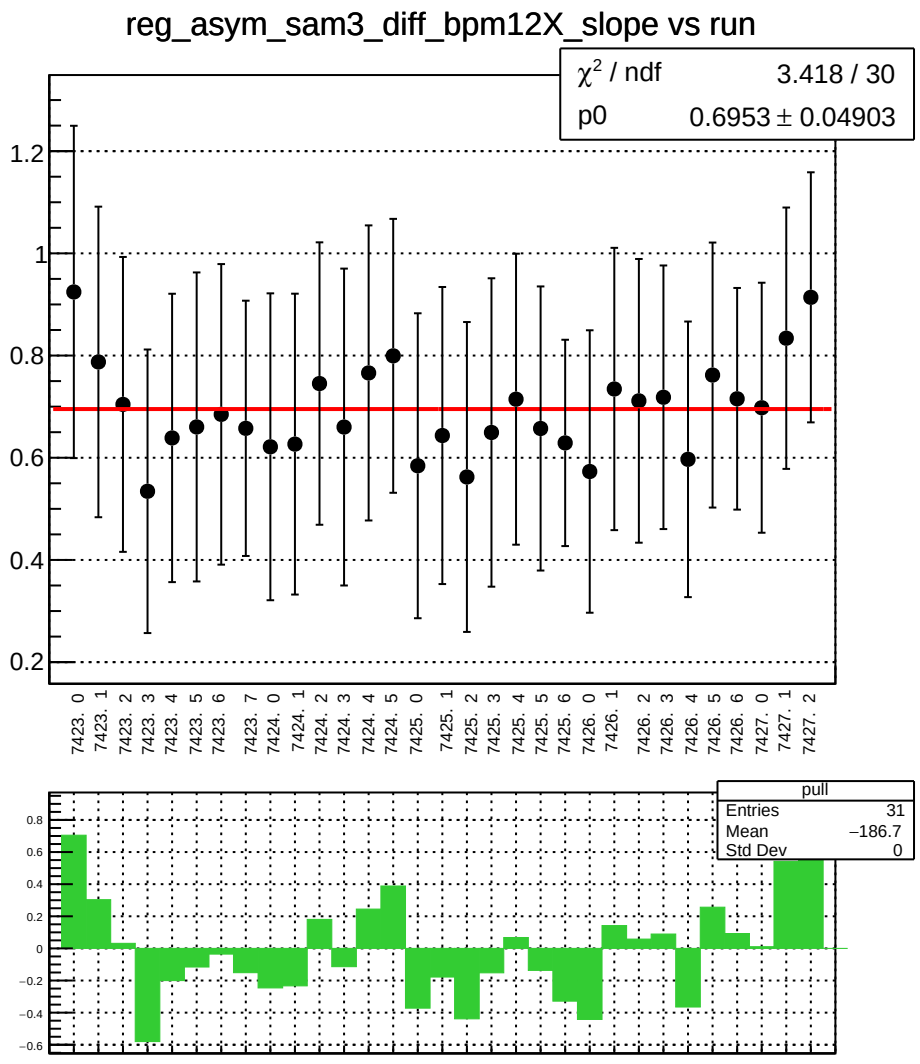

pull1D
Entries 31
Mean 0.05008
Std Dev 0.6476
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

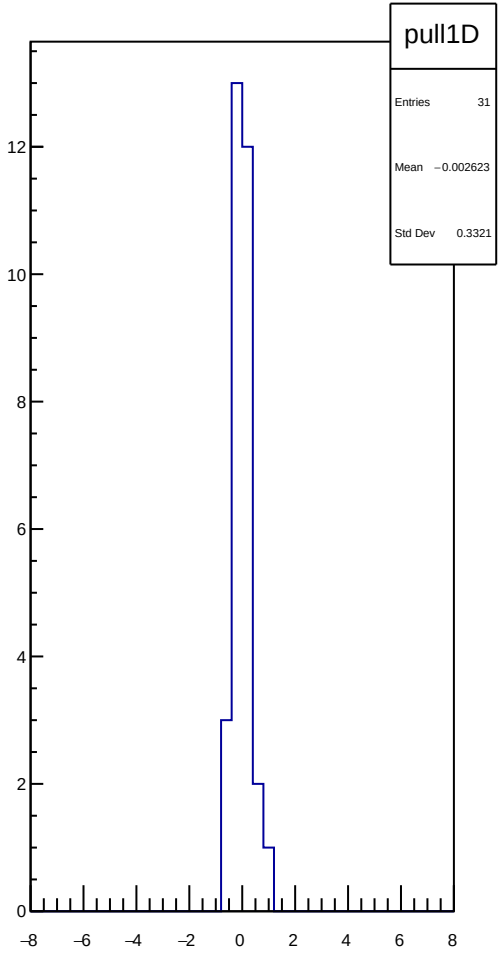

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 76.42 / 30
p0 −45.53 ± 1.154
−20
−30
−40
−50
−60
−70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −45.55
Std Dev 0
4
3
2
1
0
−1
−2

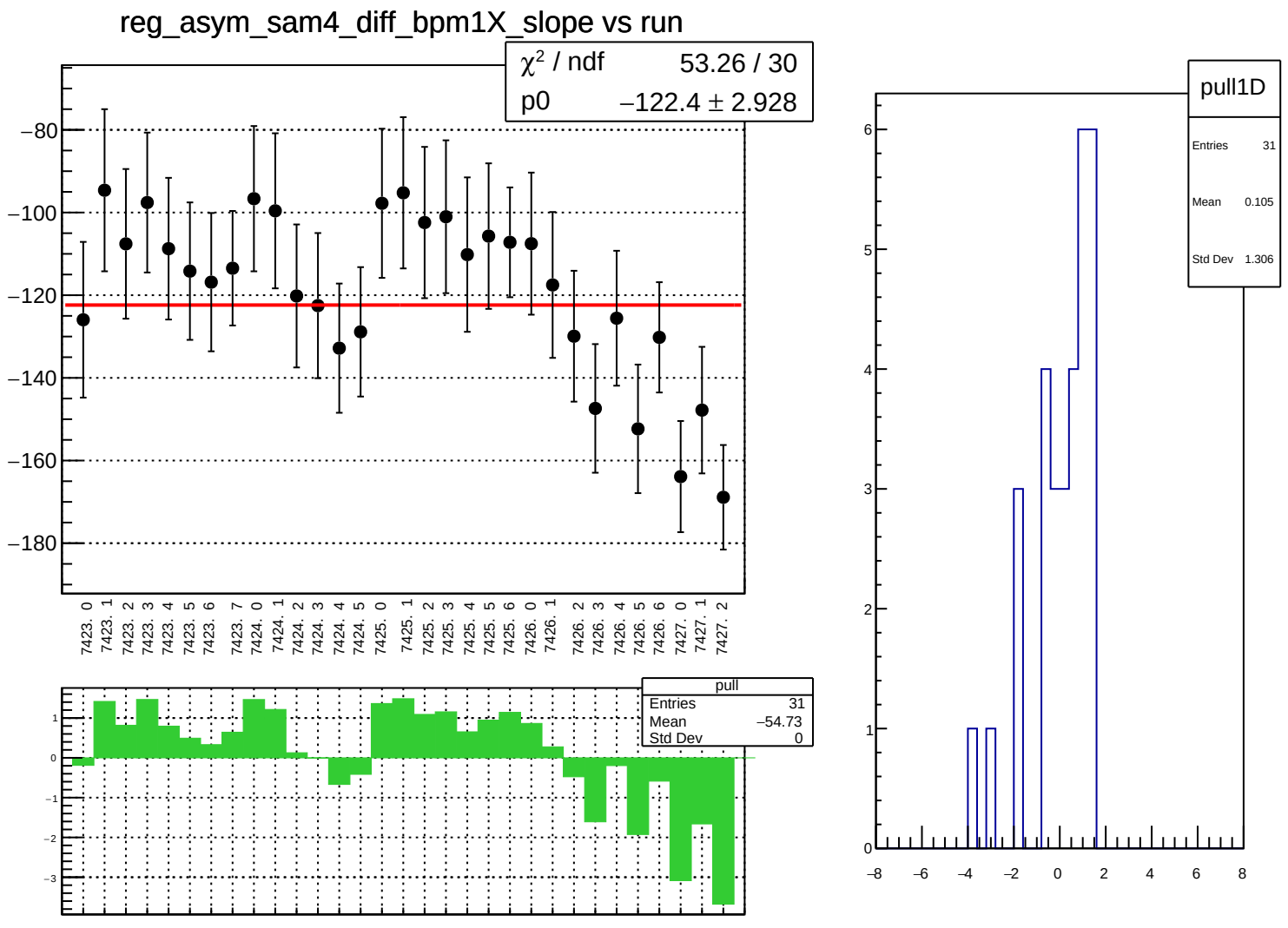

pull1D
Entries 31
Mean −0.1506
Std Dev 1.563
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

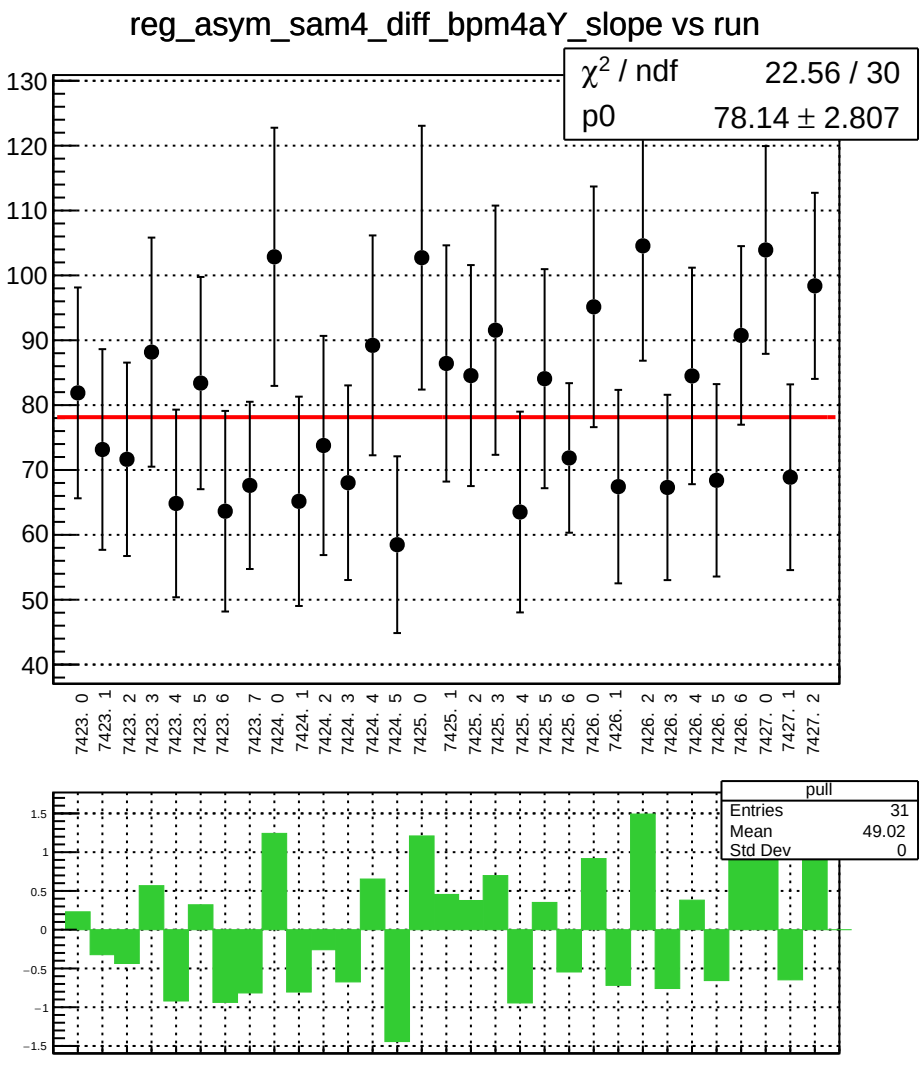

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 11.31 / 30
p0 20.26 ± 1.136
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 146.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

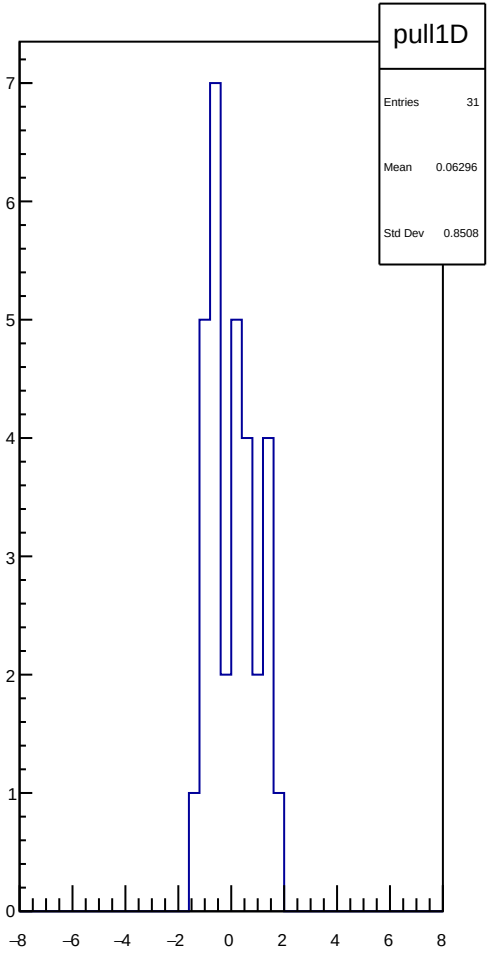

pull1D
Entries 31
Mean −0.02158
Std Dev 0.6036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

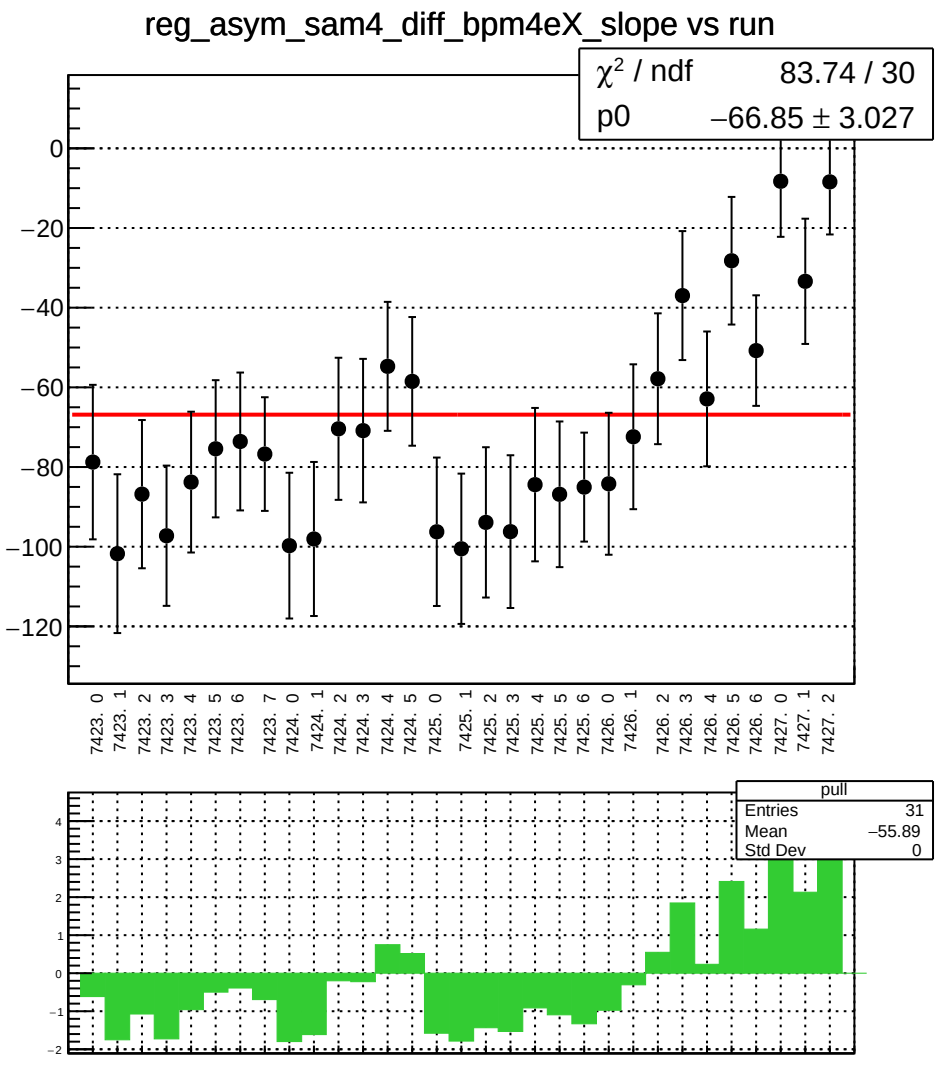

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 3.418 / 30
p0 0.6953 ± 0.04903
1.2
1
0.8
0.6
0.4
0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −186.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

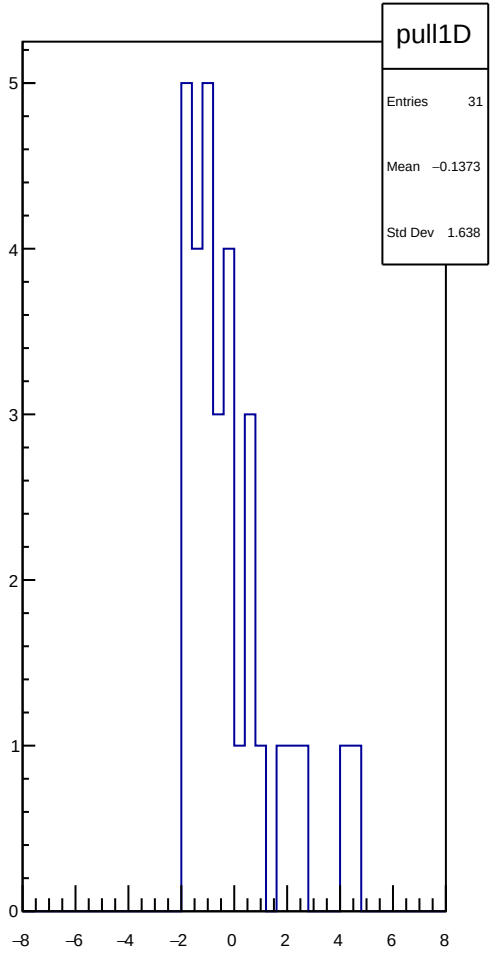

pull1D
Entries 31
Mean −0.002623
Std Dev 0.3321
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

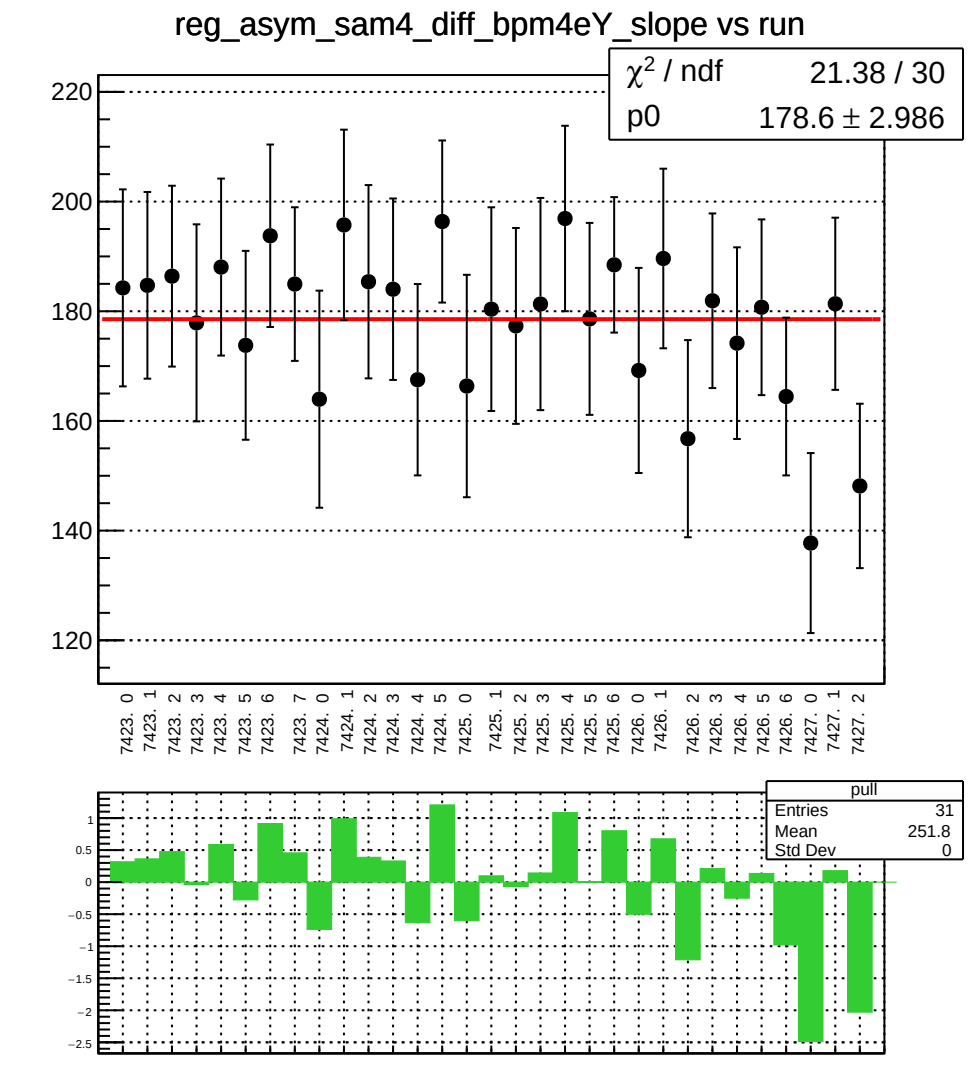

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 53.26 / 30
p0 −122.4 ± 2.928
−80
−100
−120
−140
−160
−180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −54.73
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.105
Std Dev 1.306
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

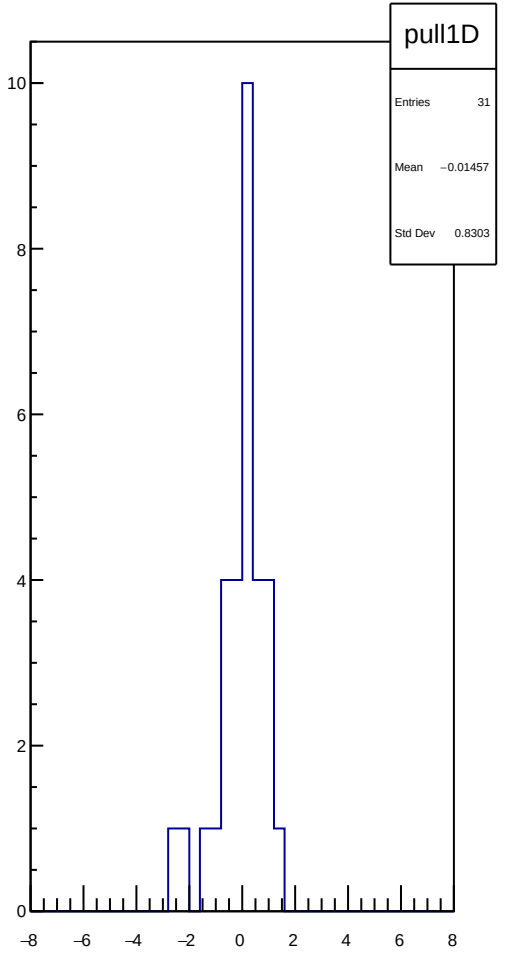

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 22.56 / 30
p0 78.14 ± 2.807
130
120
110
100
90
80
70
60
50
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

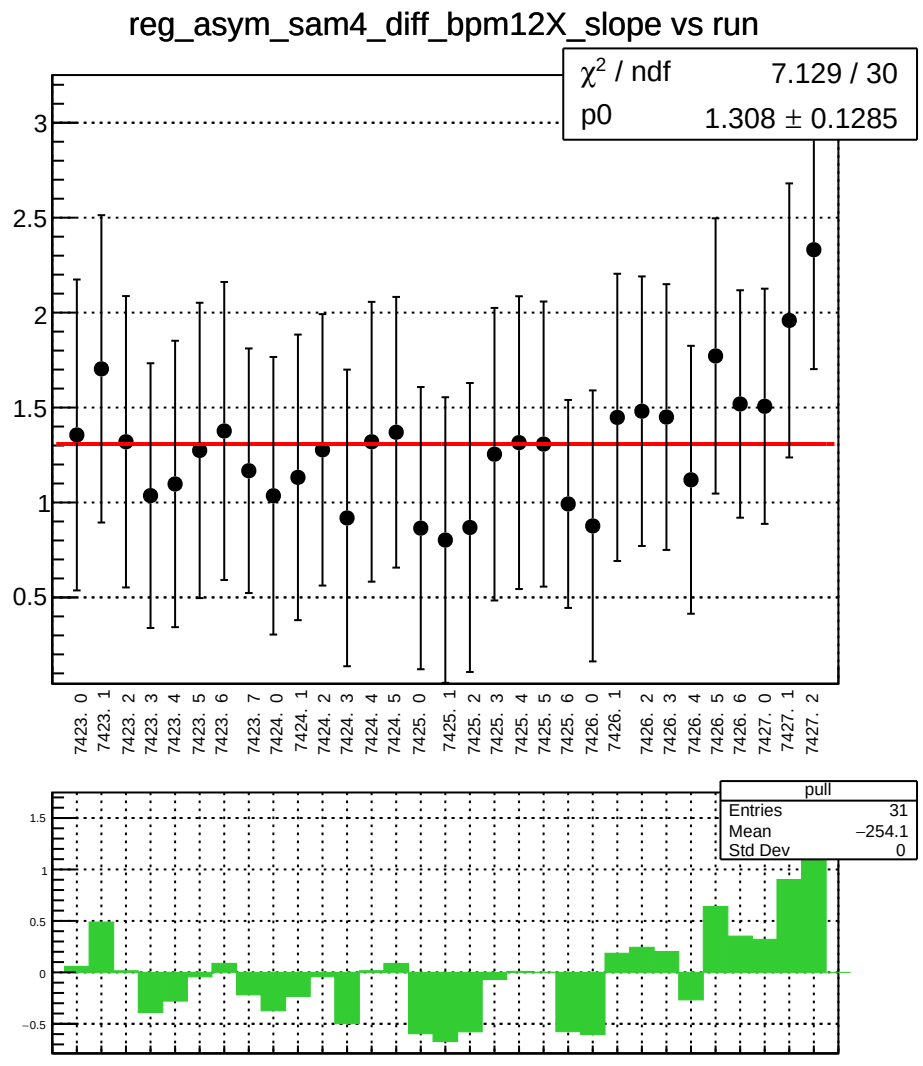

pull1D
Entries 31
Mean 0.06296
Std Dev 0.8508
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

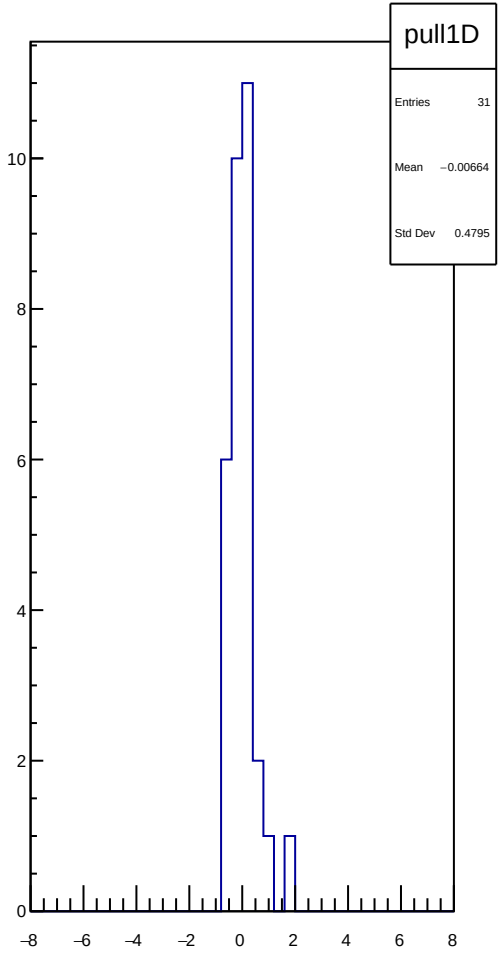

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 83.74 / 30
p0 −66.85 ± 3.027
0
−20
−40
−60
−80
−100
−120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −55.89
Std Dev 0
4
3
2
1
0
−1
−2

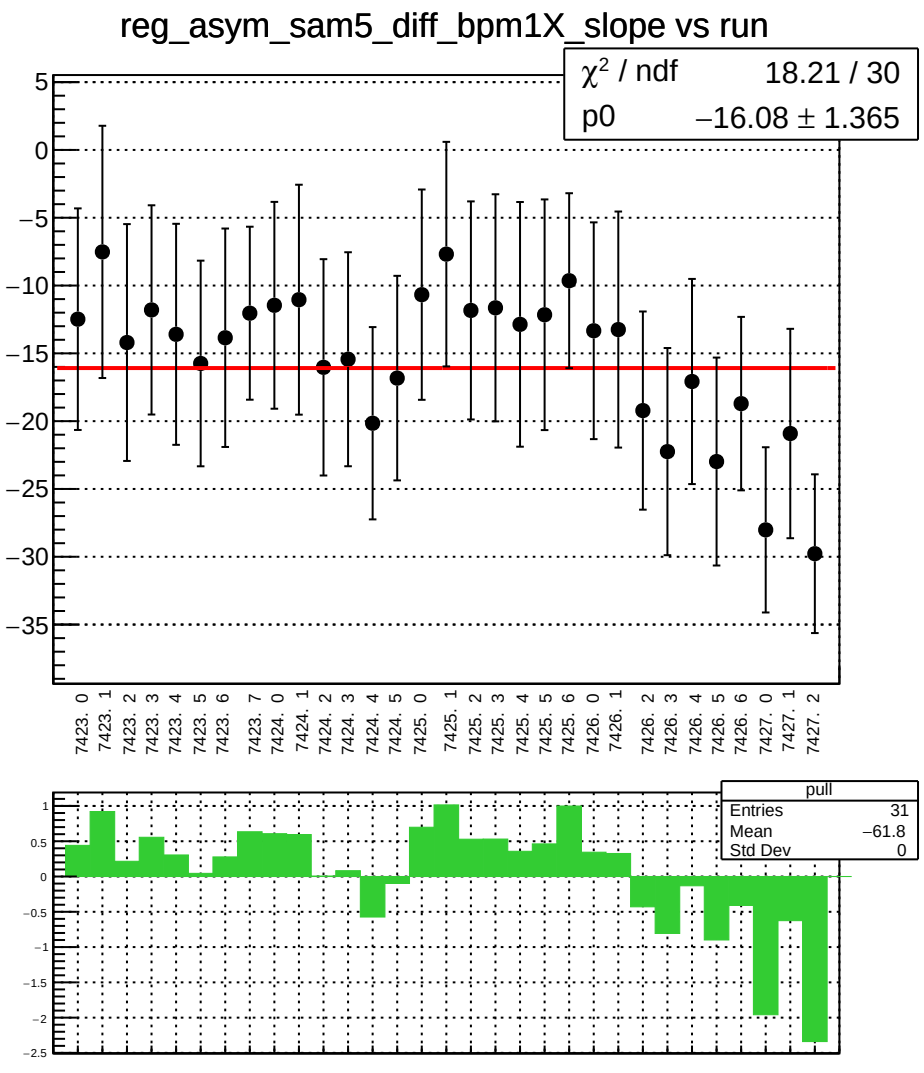

pull1D
Entries 31
Mean −0.1373
Std Dev 1.638
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

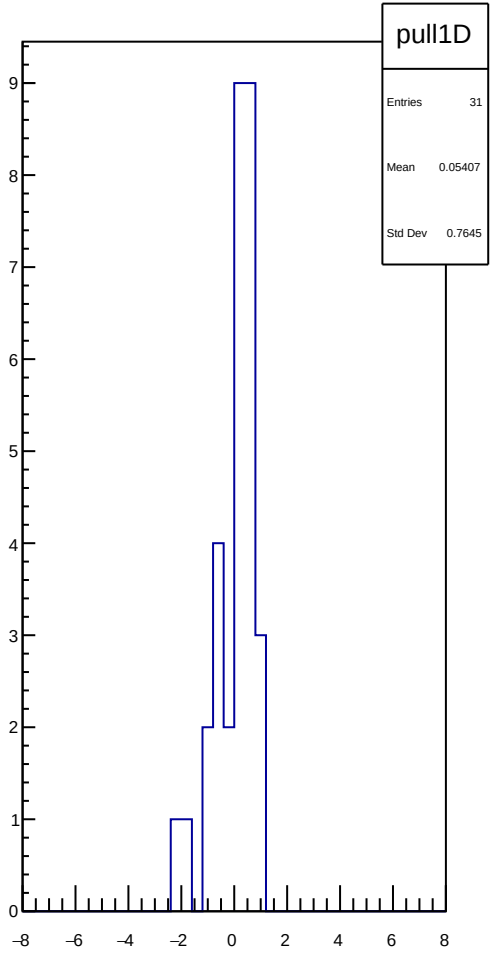

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 21.38 / 30
p0 178.6 ± 2.986
220
200
180
160
140
120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 251.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

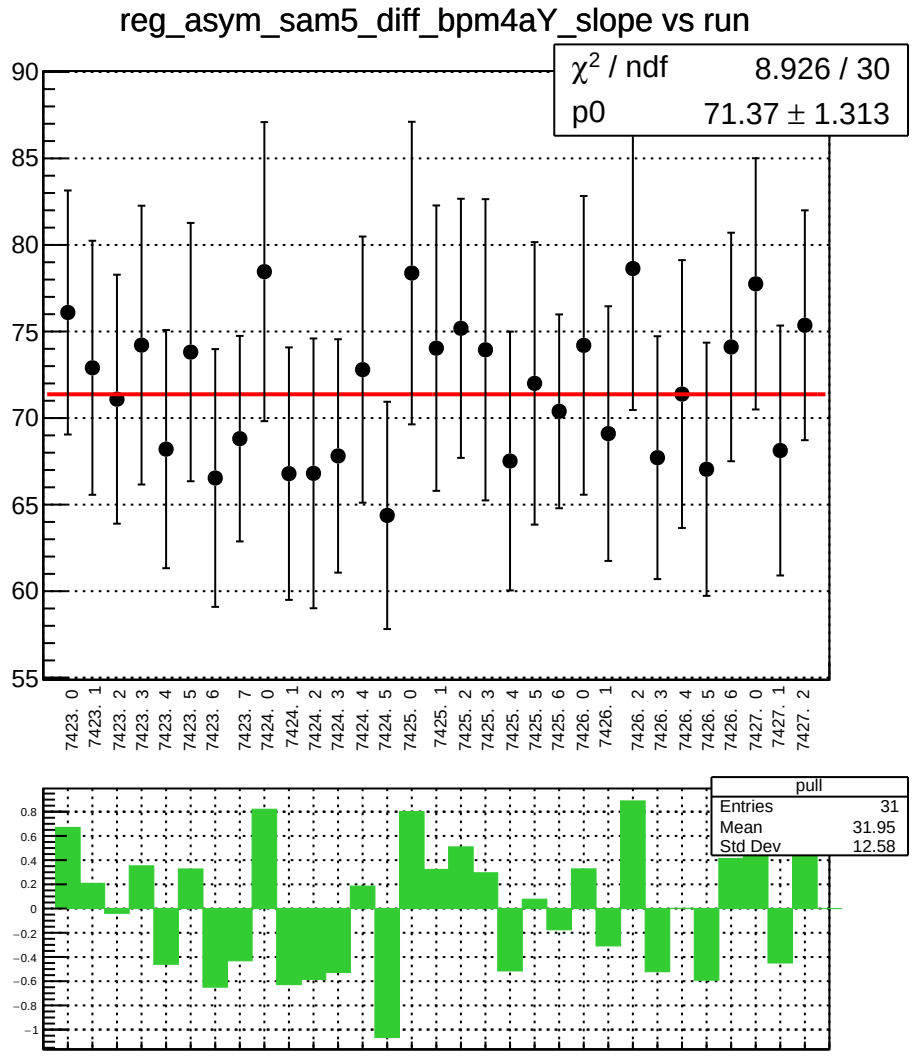

pull1D
Entries 31
Mean −0.01457
Std Dev 0.8303
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

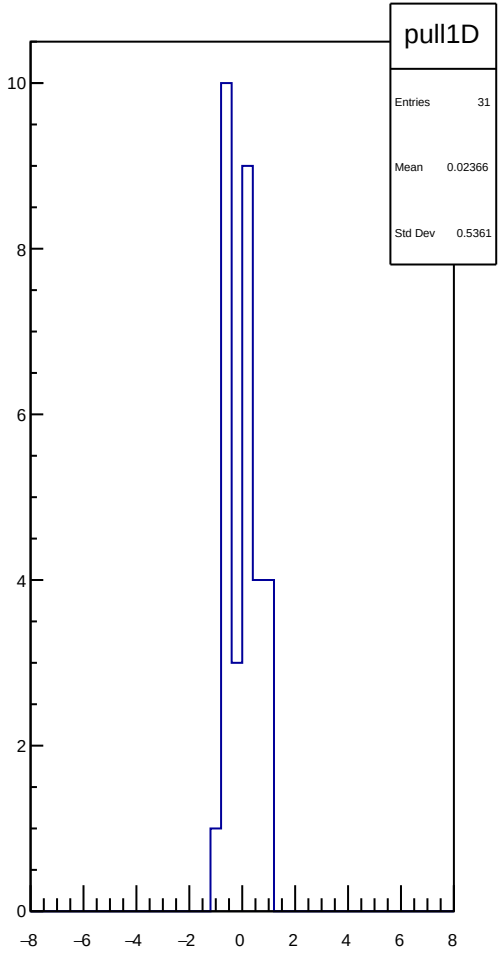

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 7.129 / 30
p0 1.308 ± 0.1285
pull
Entries 31
Mean −254.1
Std Dev 0

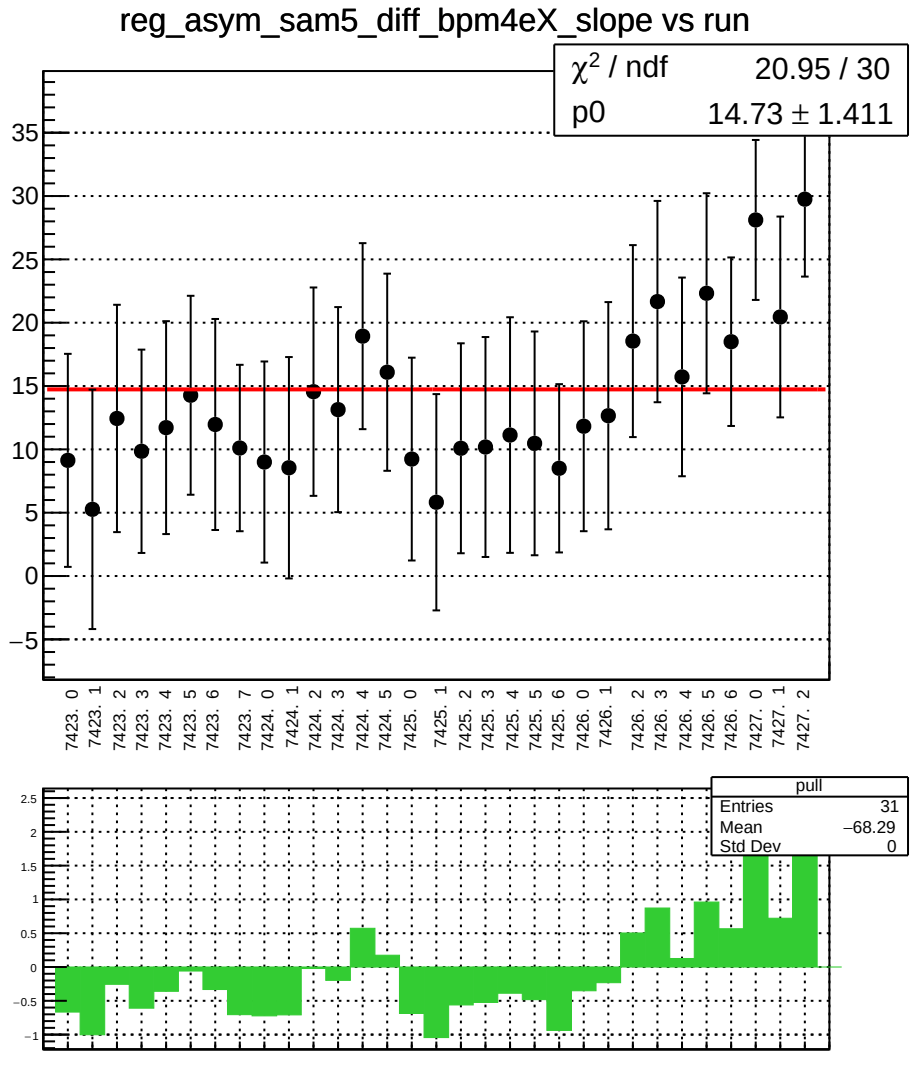

pull1D
Entries 31
Mean −0.00664
Std Dev 0.4795

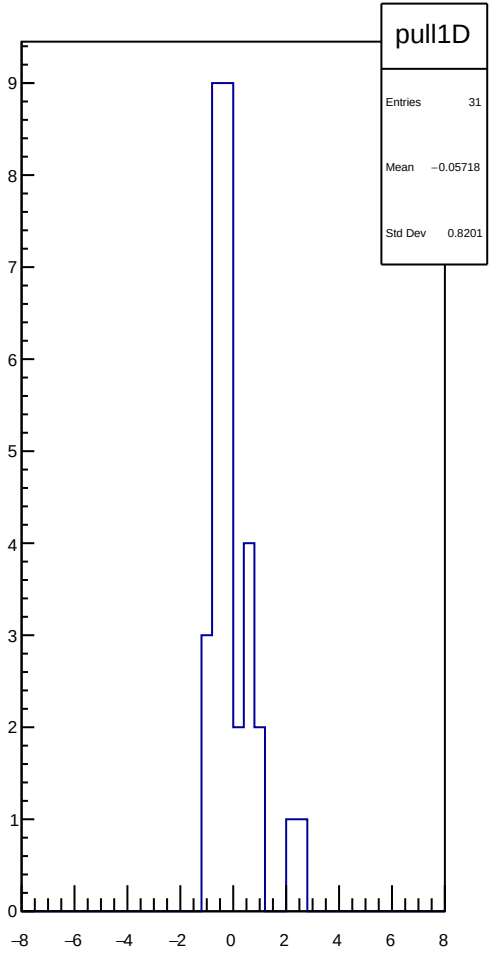

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 18.21 / 30
p0 −16.08 ± 1.365
pull
Entries 31
Mean −61.8
Std Dev 0

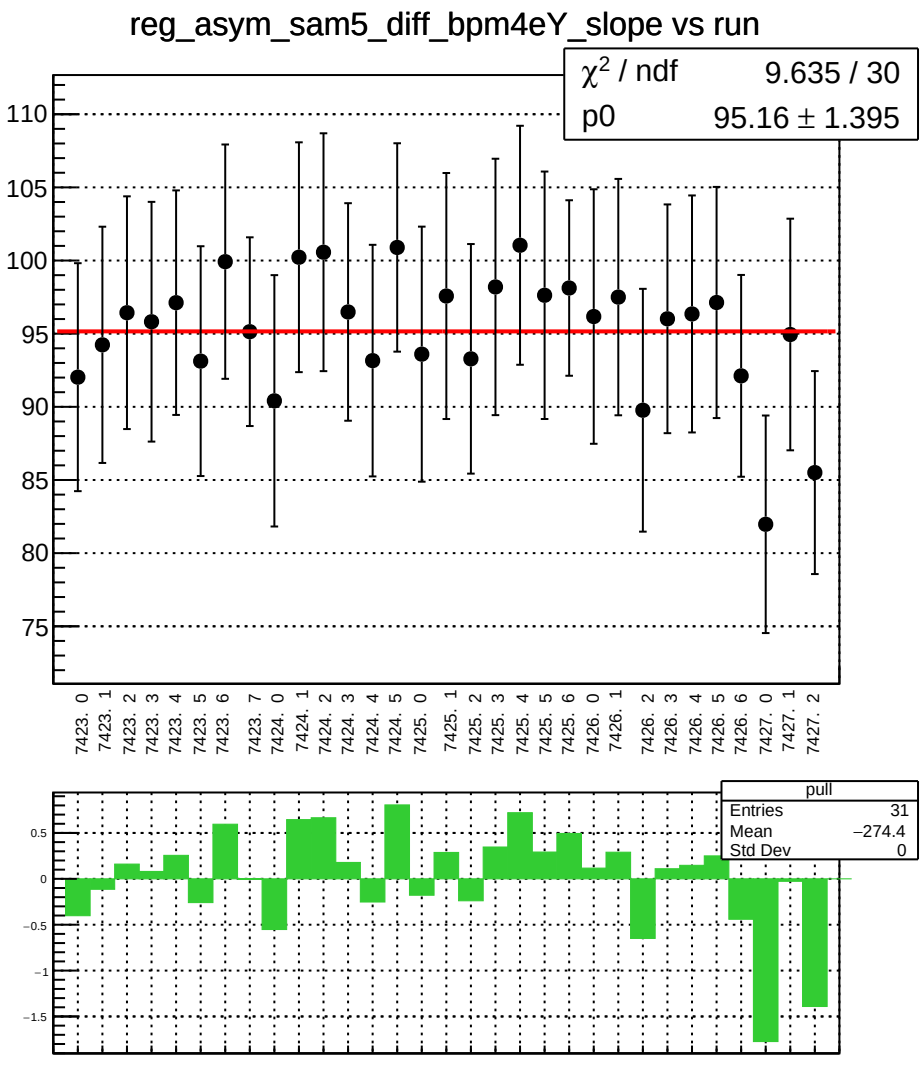

pull1D
Entries 31
Mean 0.05407
Std Dev 0.7645

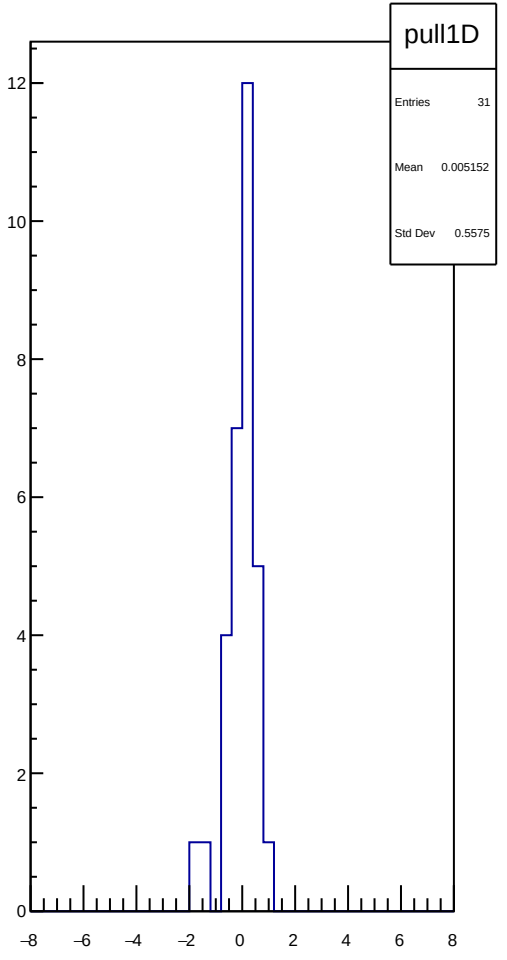

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 8.926 / 30
p0 71.37 ± 1.313
pull
Entries 31
Mean 31.95
Std Dev 12.58

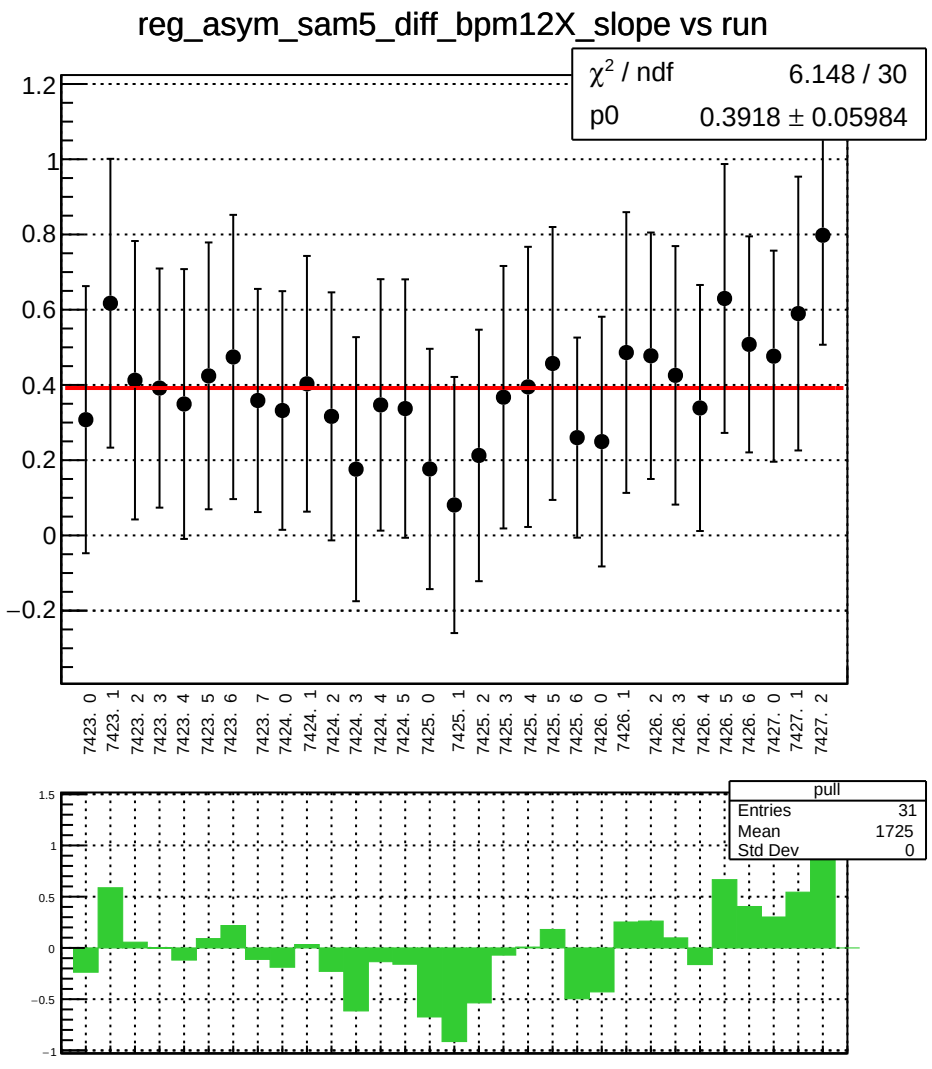

pull1D
Entries 31
Mean 0.02366
Std Dev 0.5361

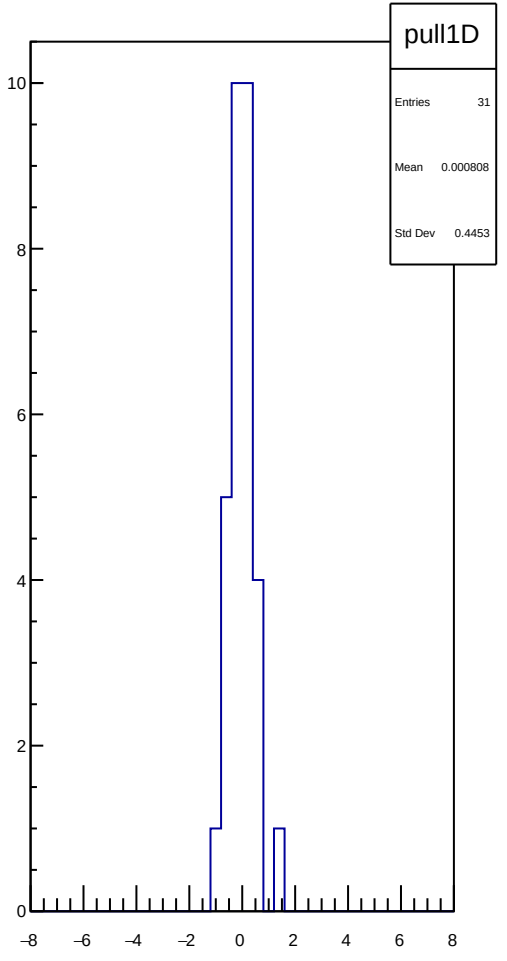

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 20.95 / 30
p0 14.73 ± 1.411
pull
Entries 31
Mean −68.29
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

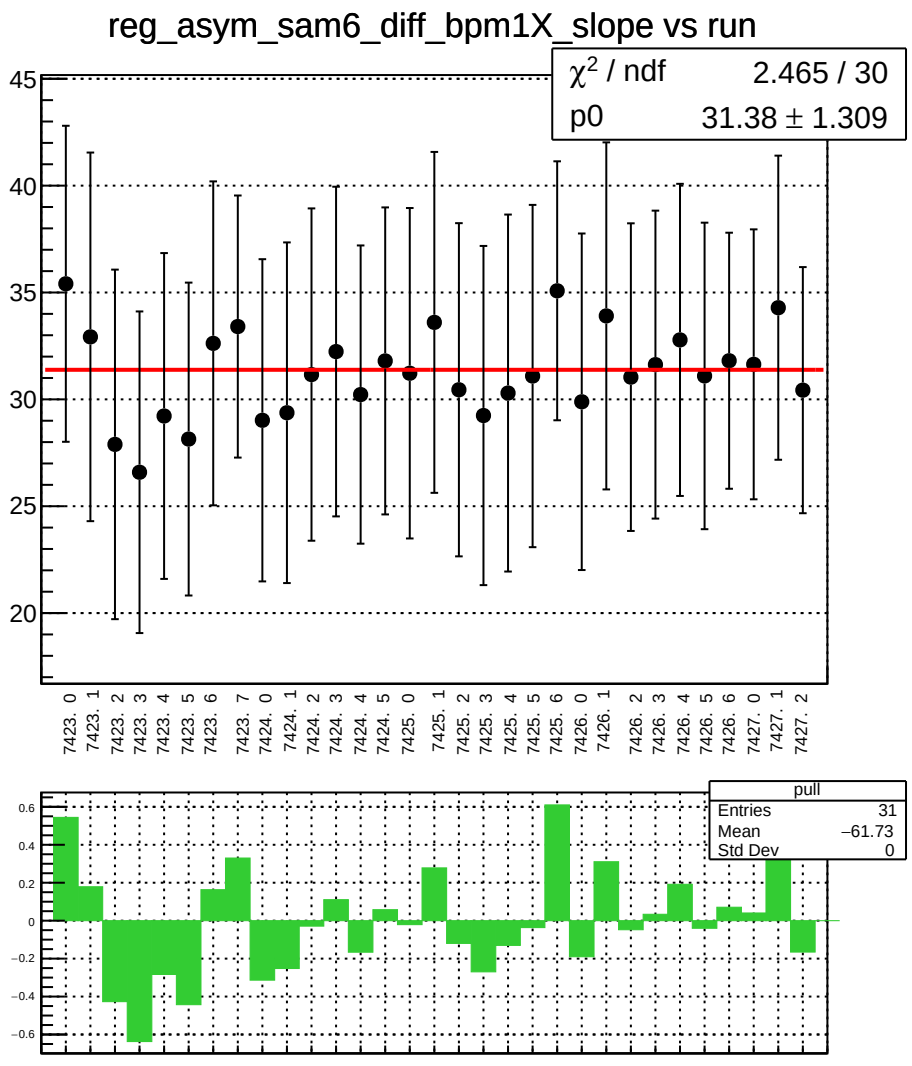

pull1D
Entries 31
Mean −0.05718
Std Dev 0.8201

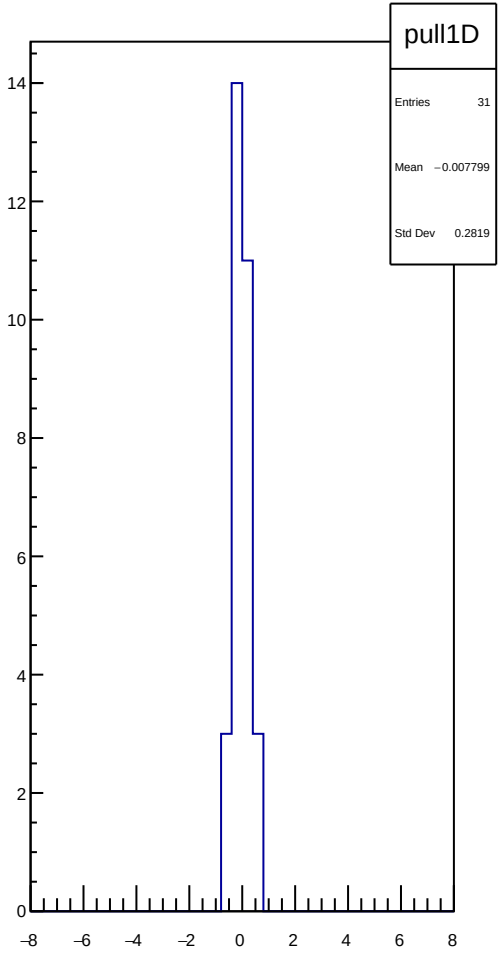

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 9.635 / 30
p0 95.16 ± 1.395
110
105
100
95
90
85
80
75
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −274.4
Std Dev 0
0.5
0
−0.5
−1
−1.5

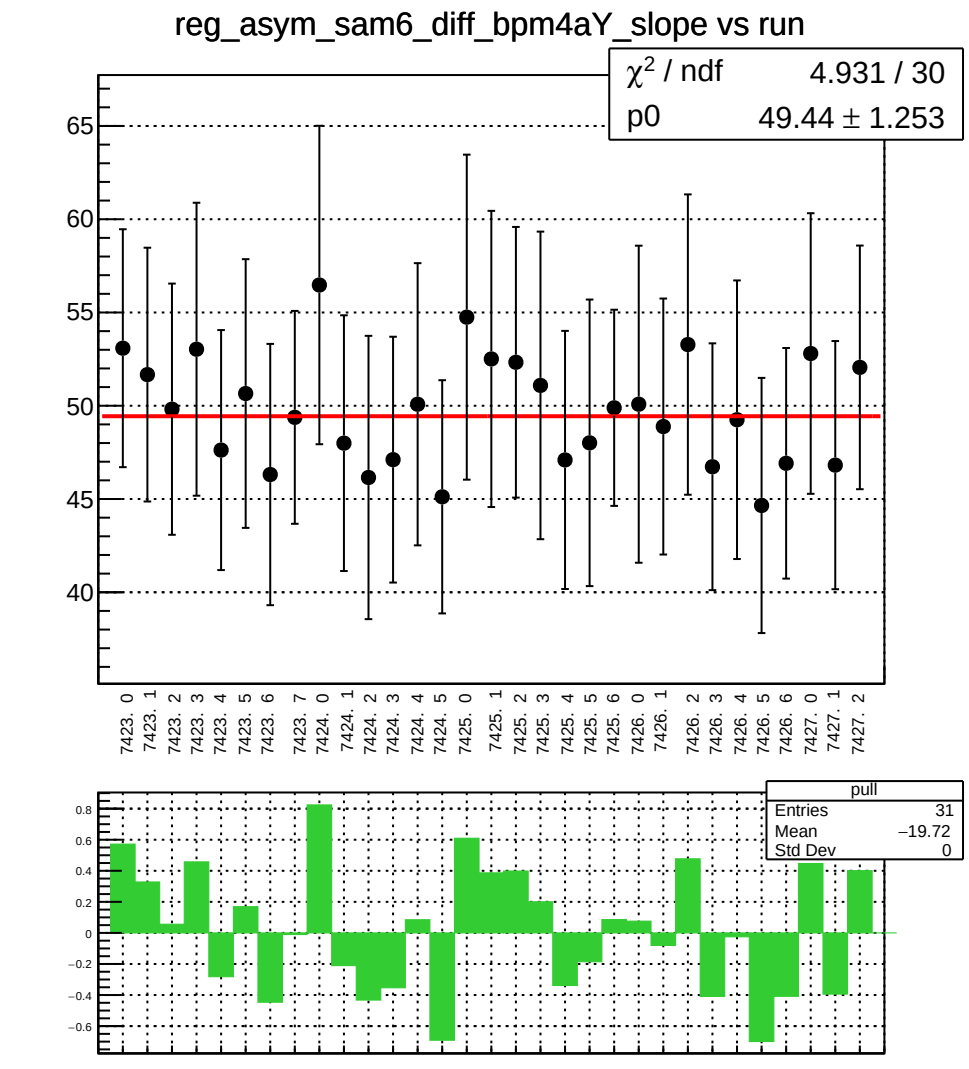

pull1D
Entries 31
Mean 0.005152
Std Dev 0.5575
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

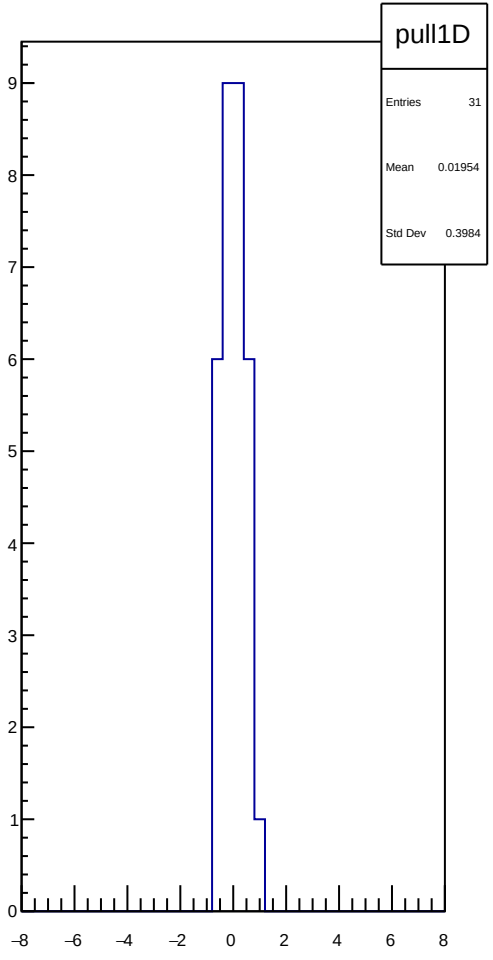

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 6.148 / 30
p0 0.3918 ± 0.05984
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1725
Std Dev 0
1.5
1
0.5
0
−0.5
−1

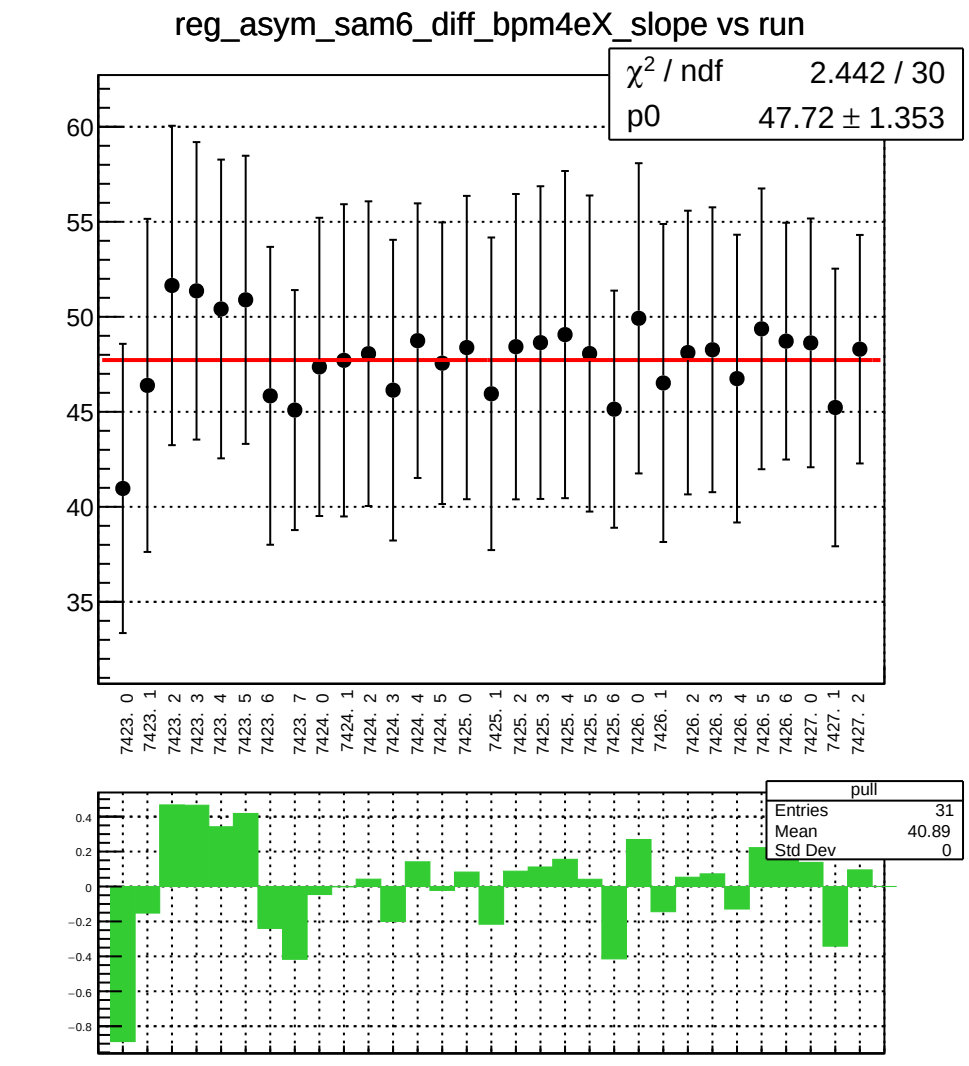

pull1D
Entries 31
Mean 0.000808
Std Dev 0.4453
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

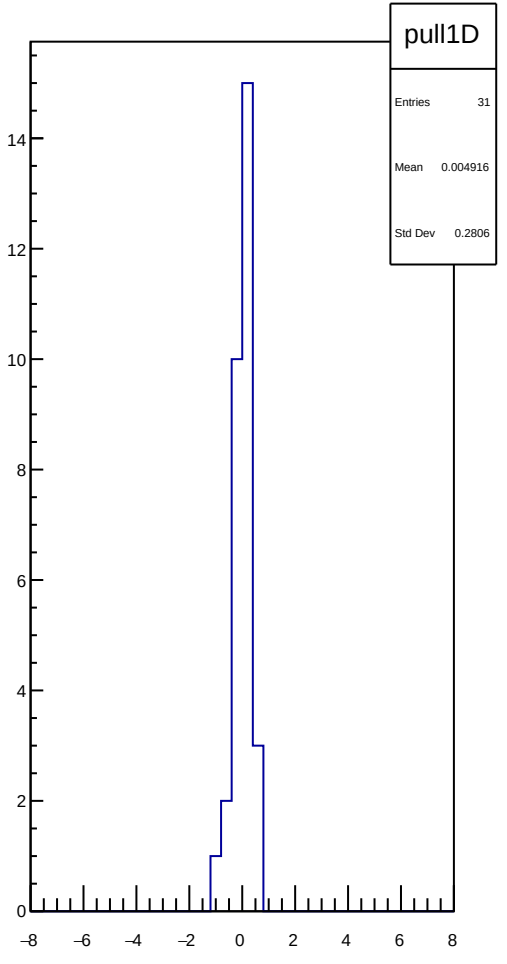

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.465 / 30
p0 31.38 ± 1.309
45
40
35
30
25
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −61.73
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

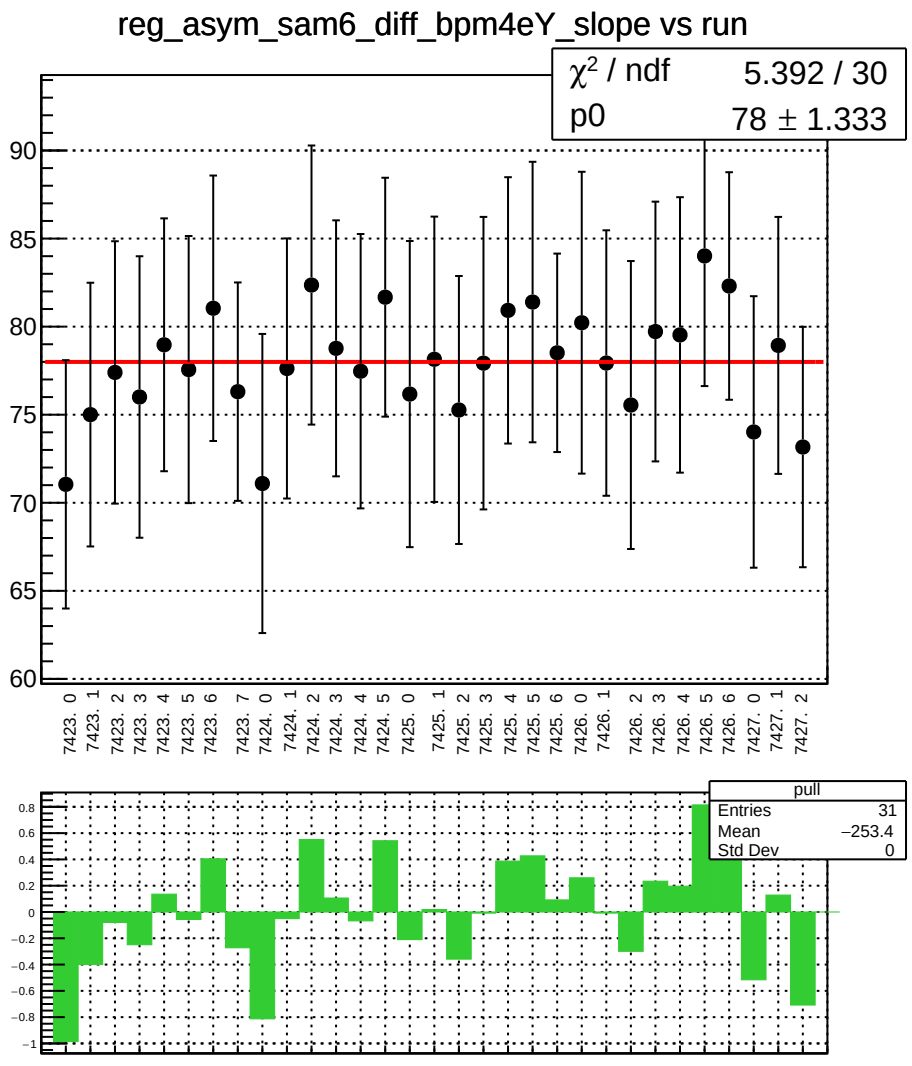

pull1D
Entries 31
Mean −0.007799
Std Dev 0.2819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

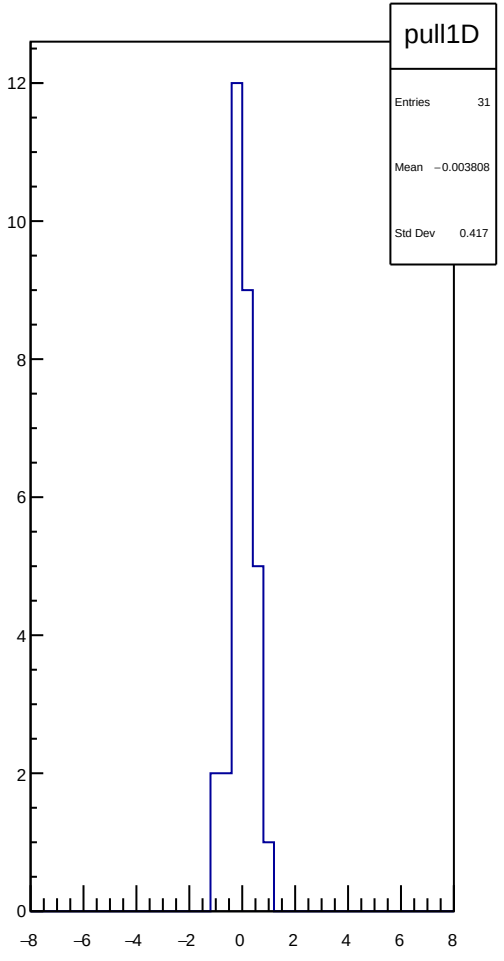

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 4.931 / 30
p0 49.44 ± 1.253
65
60
55
50
45
40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −19.72
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

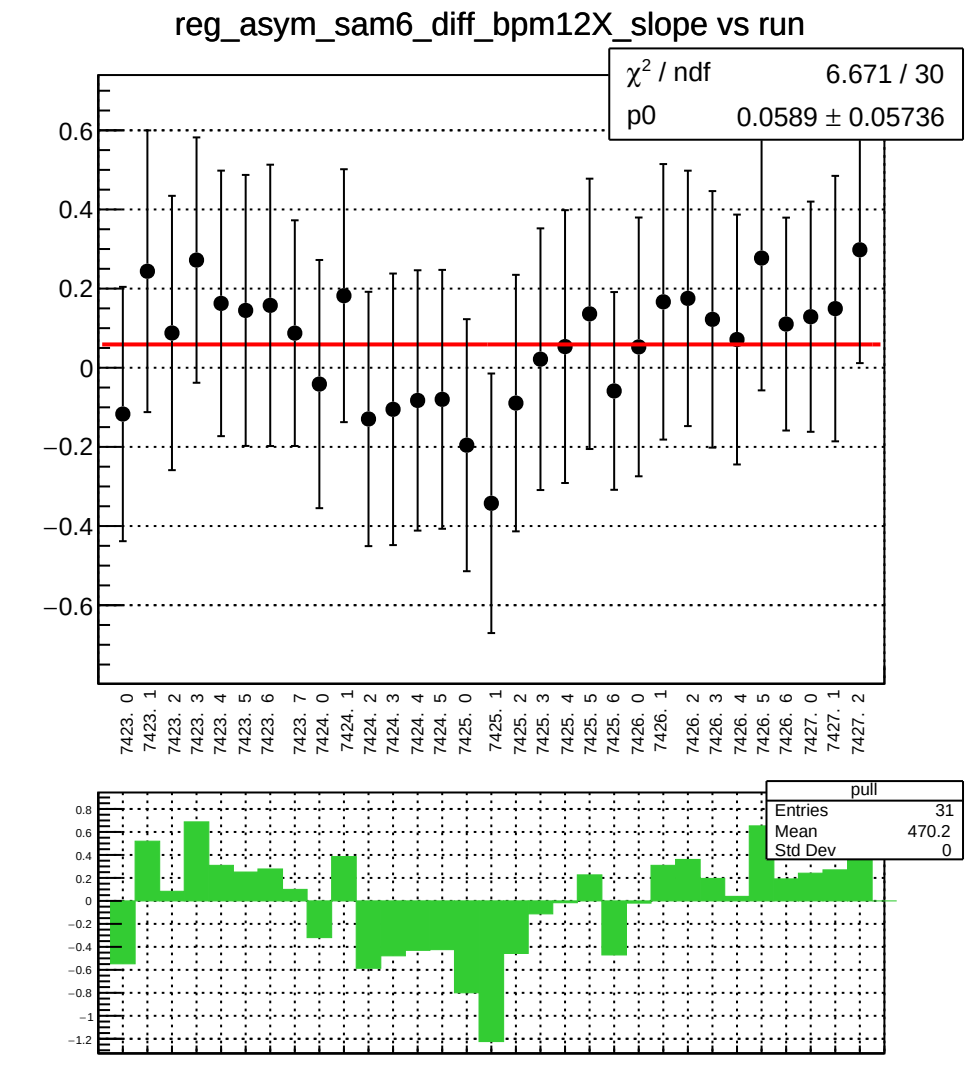

pull1D
Entries 31
Mean 0.01954
Std Dev 0.3984
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

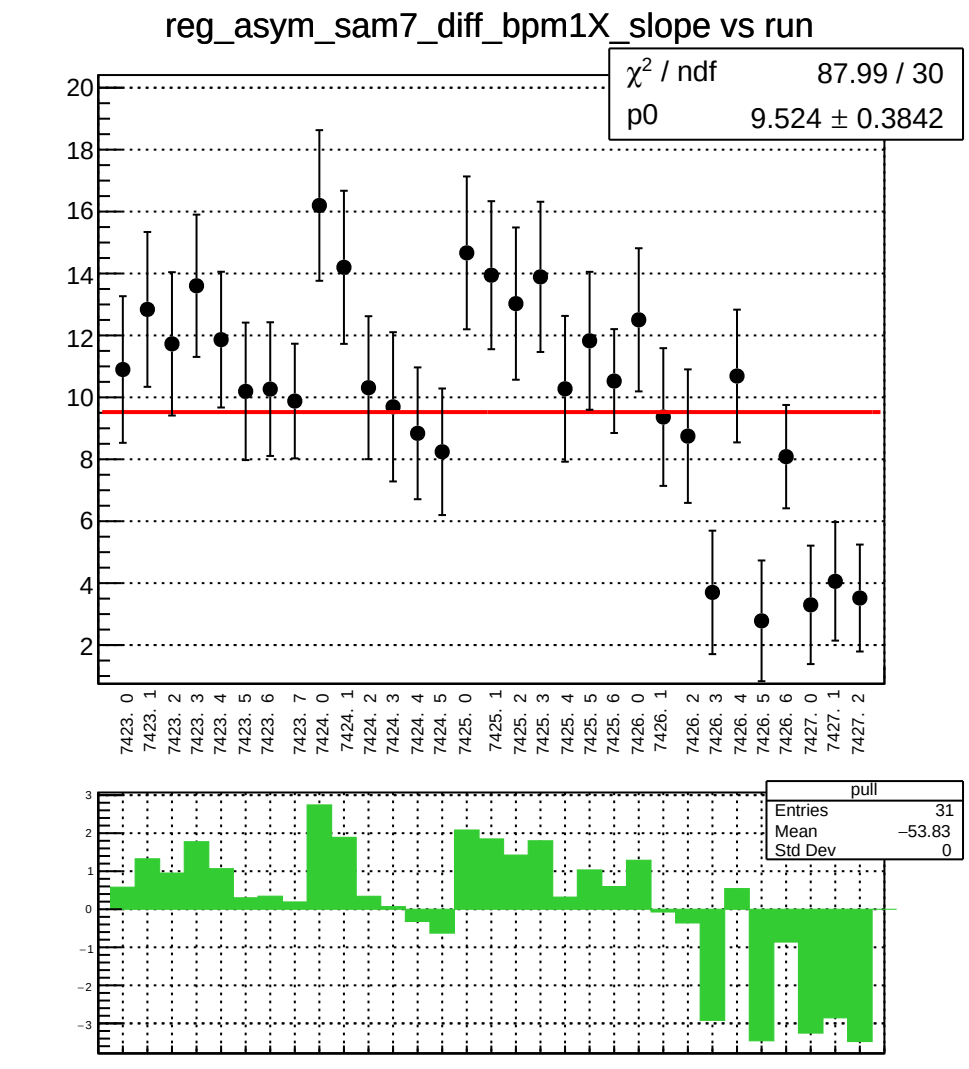

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 2.442 / 30
p0 47.72 ± 1.353
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 40.89
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

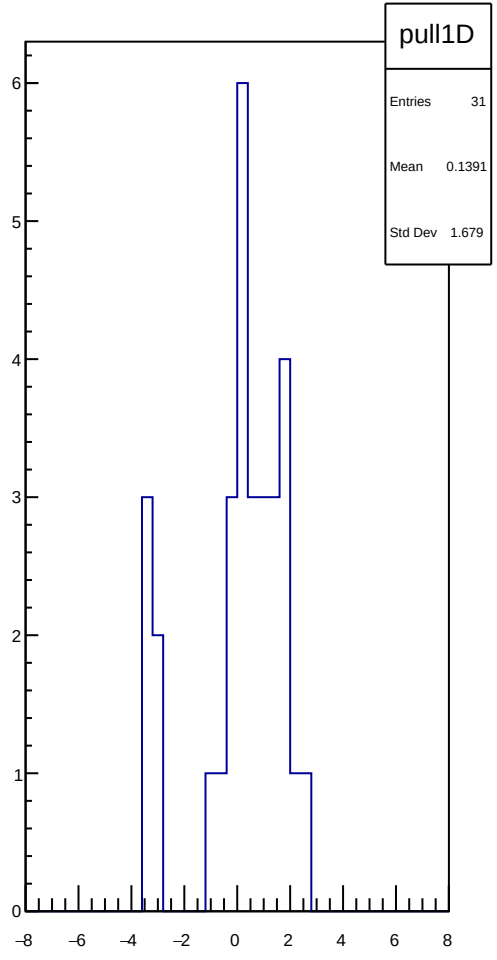

pull1D
Entries 31
Mean 0.004916
Std Dev 0.2806
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

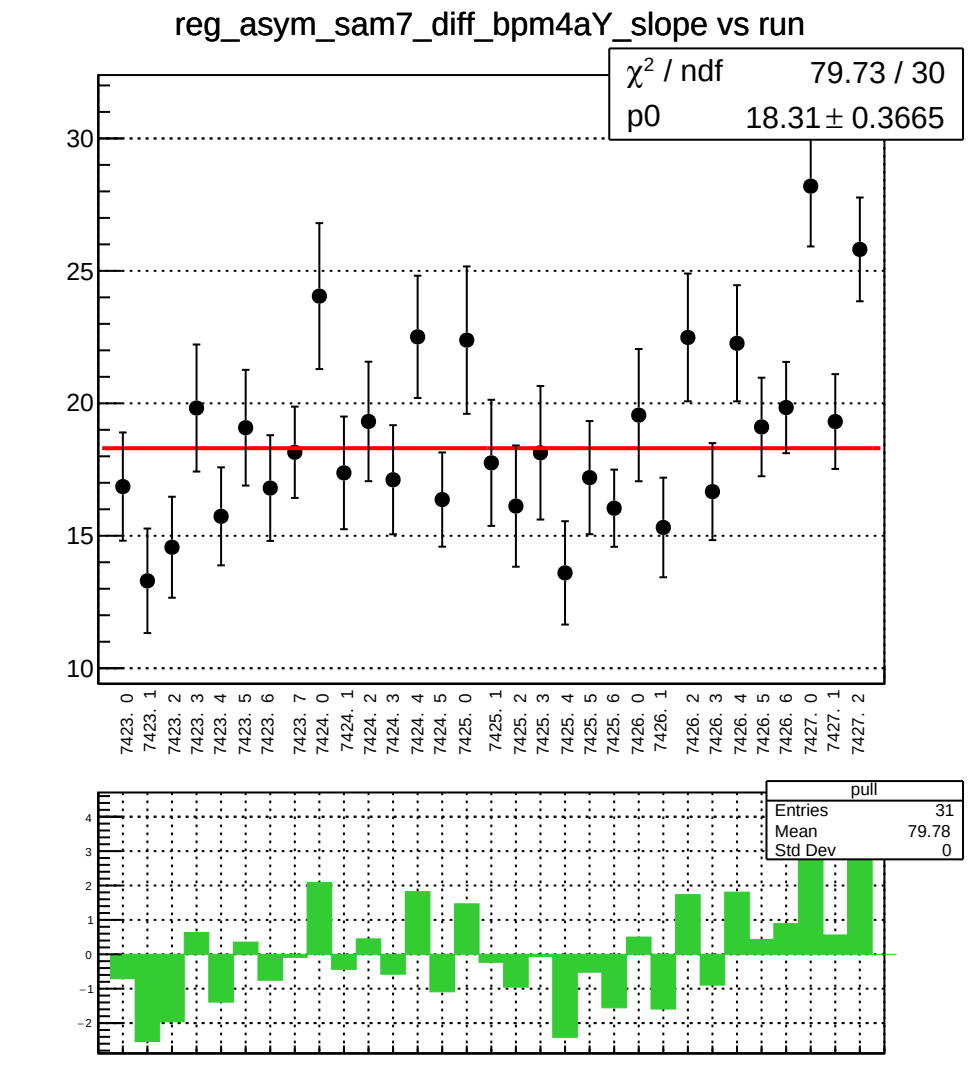

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 5.392 / 30
p0 78 ± 1.333
90
85
80
75
70
65
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −253.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

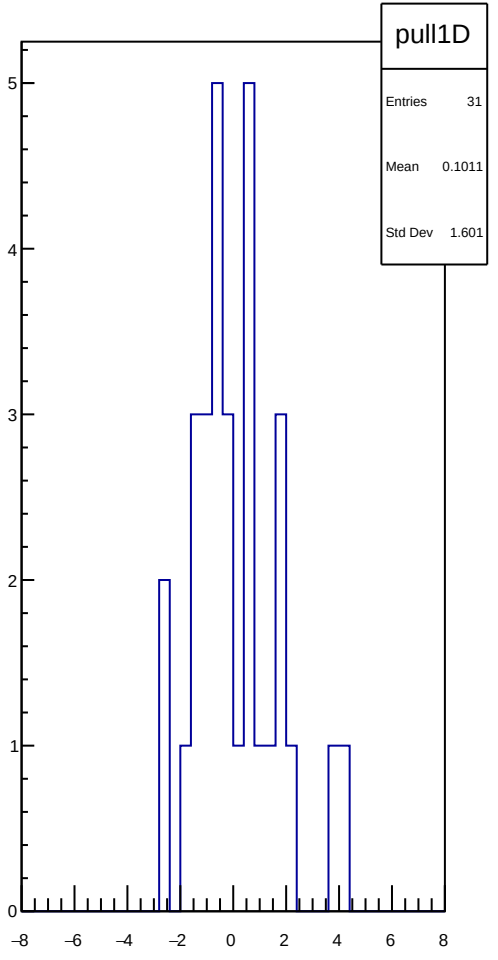

pull1D
Entries 31
Mean −0.003808
Std Dev 0.417
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

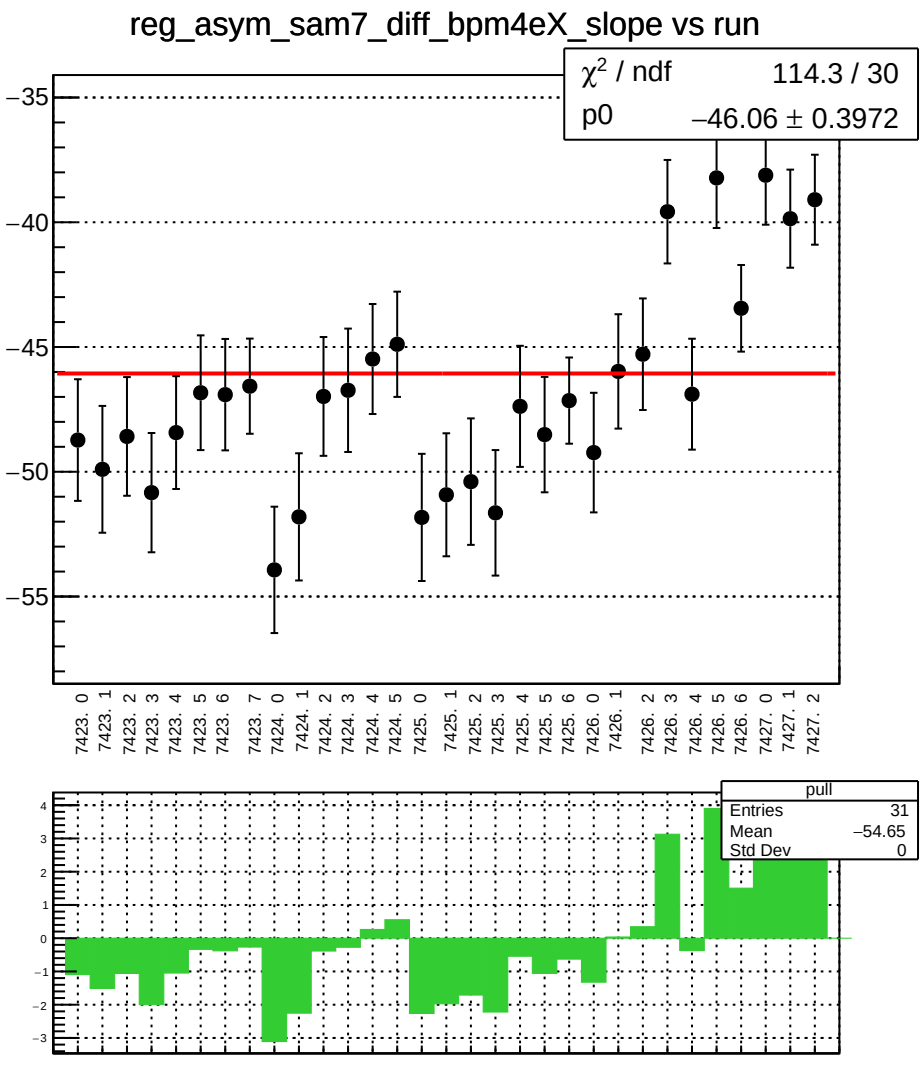

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 6.671 / 30
p0 0.0589 ± 0.05736
pull
Entries 31
Mean 470.2
Std Dev 0
pull1D
Entries 31
Mean 0.001697
Std Dev 0.4639

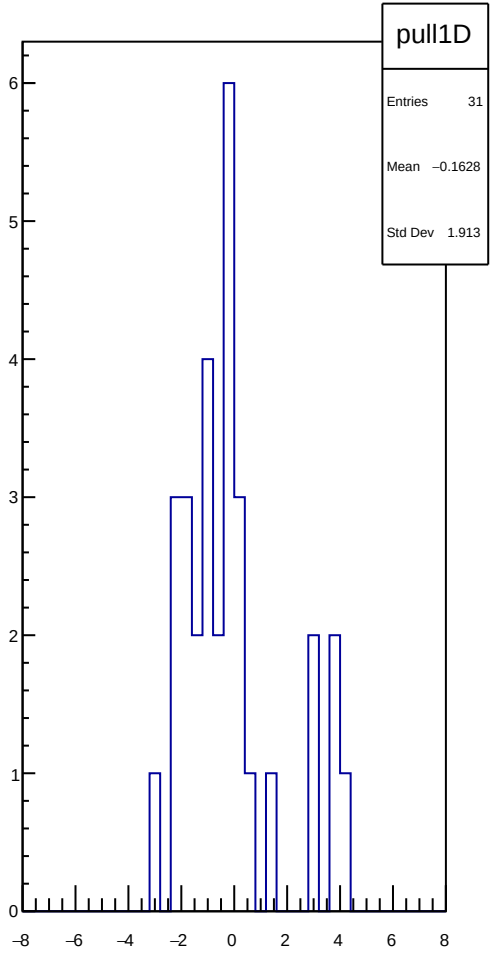

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 87.99 / 30
p0 9.524 ± 0.3842
pull
Entries 31
Mean −53.83
Std Dev 0

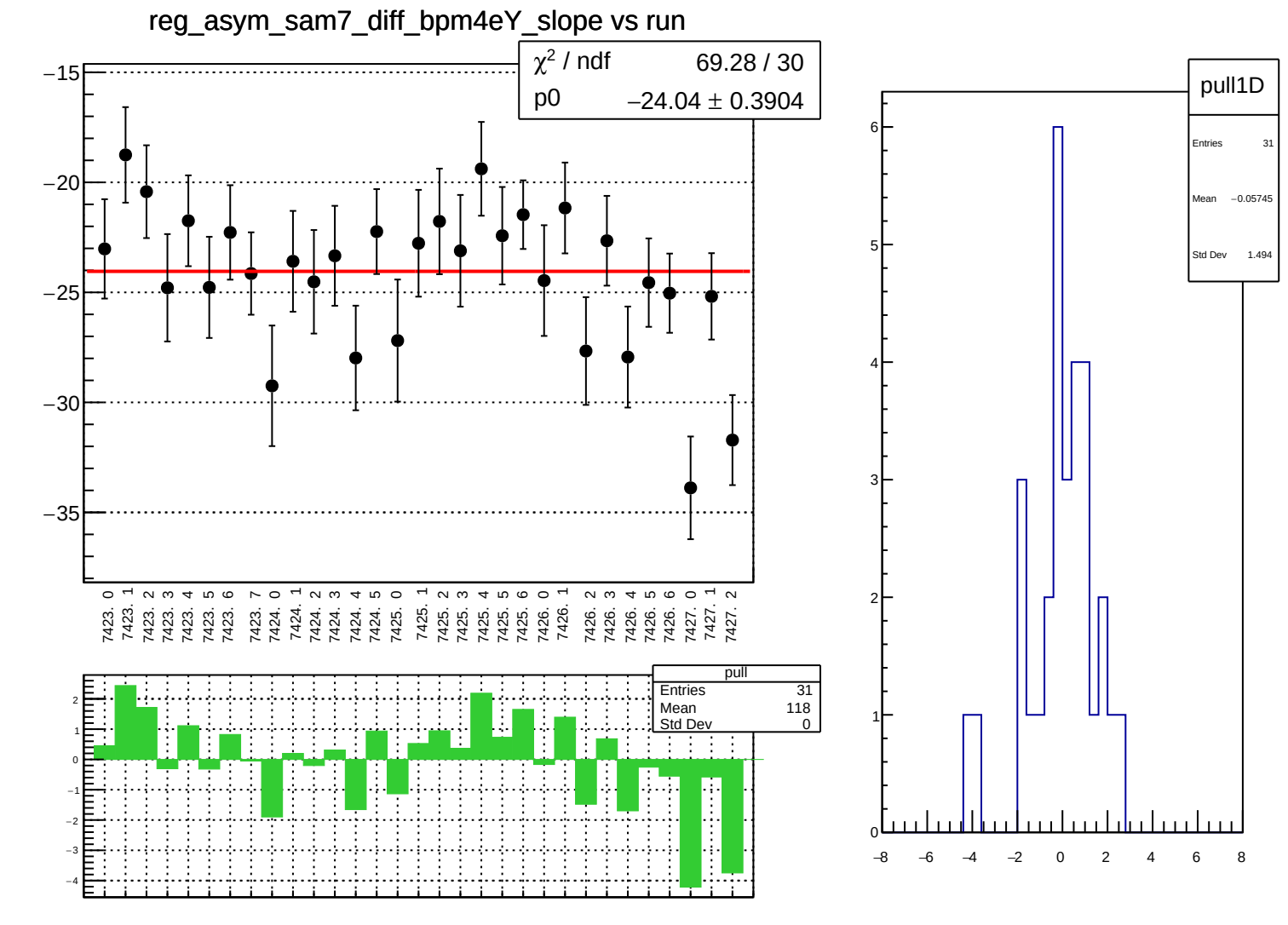

pull1D
Entries 31
Mean 0.1391
Std Dev 1.679

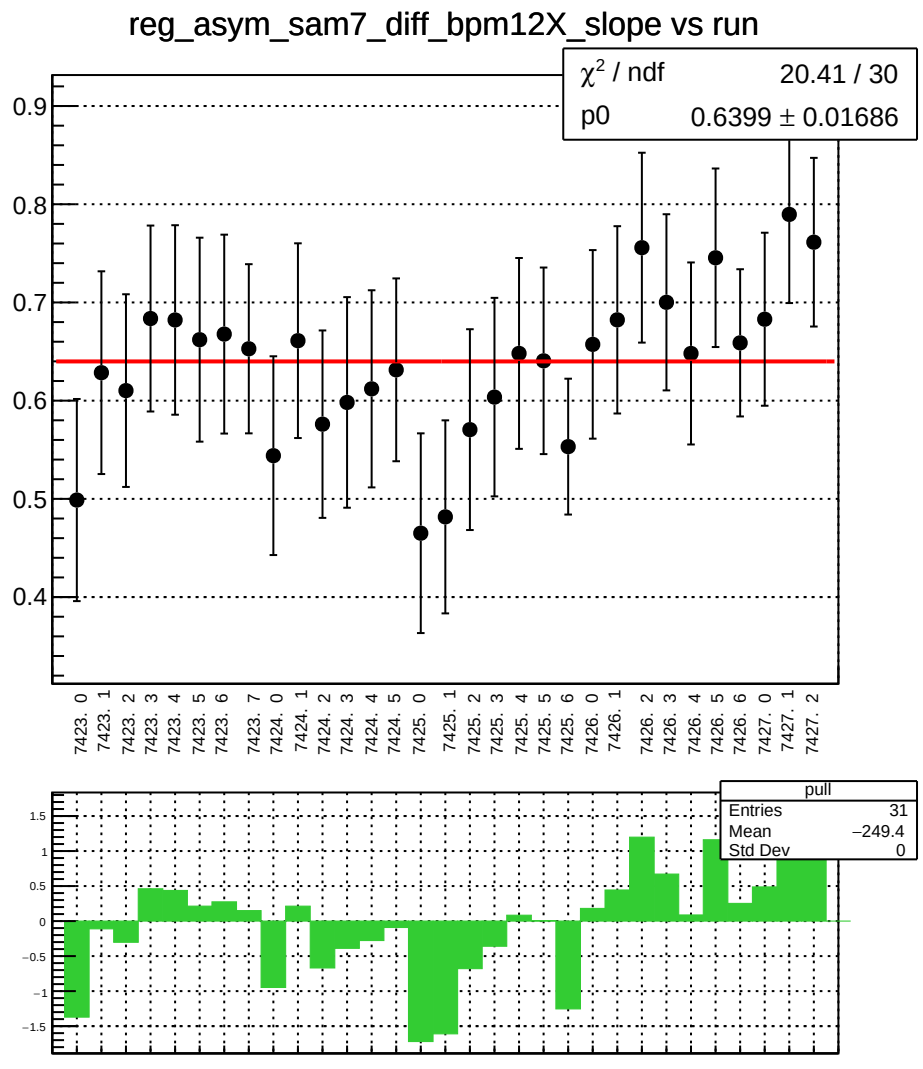

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 79.73 / 30
p0 18.31 ± 0.3665
30
25
20
15
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 79.78
Std Dev 0
4
3
2
1
0
−1
−2

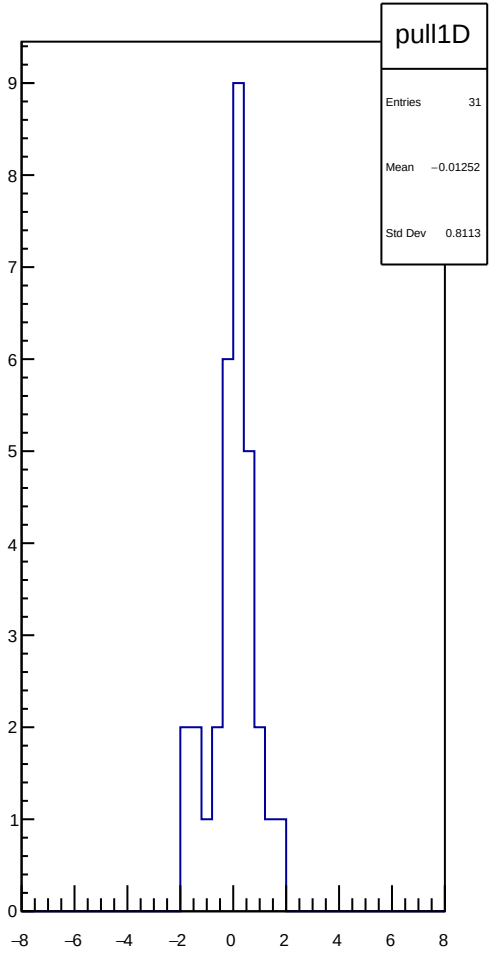

pull1D
Entries 31
Mean 0.1011
Std Dev 1.601
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

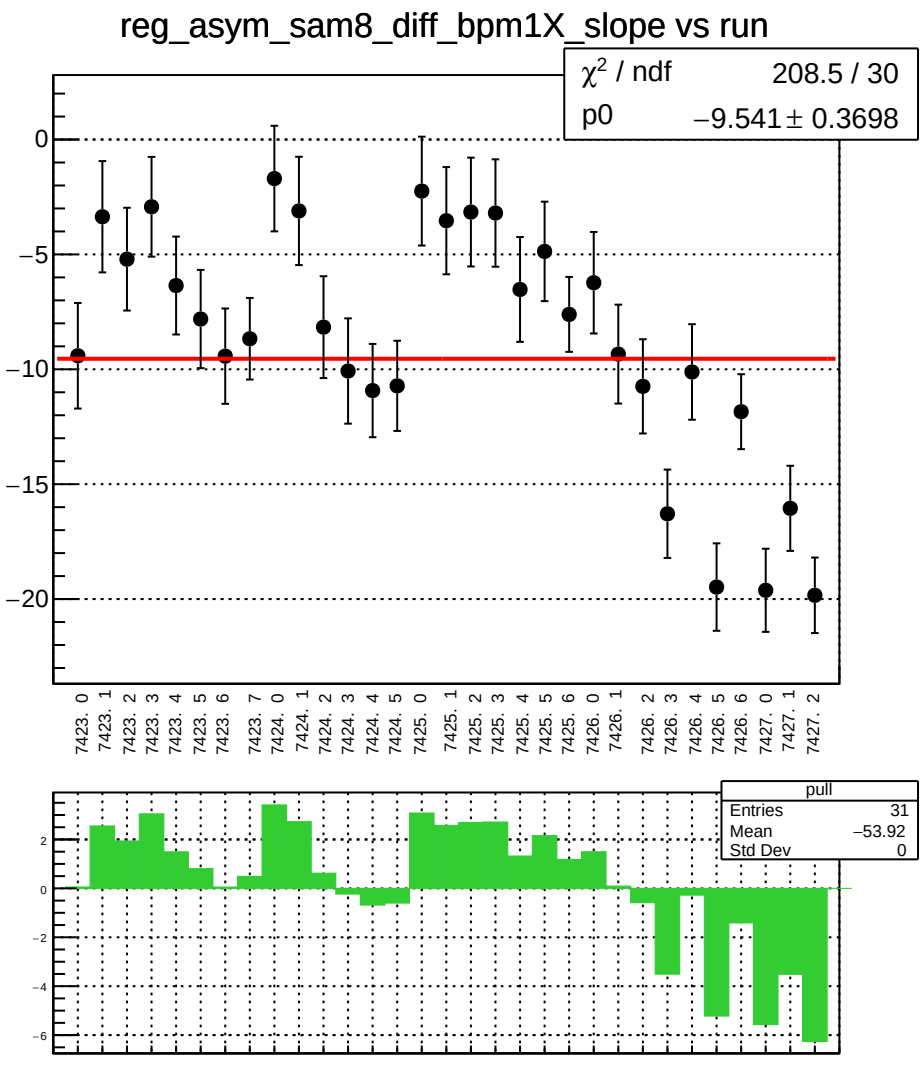

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 114.3 / 30
p0 −46.06 ± 0.3972
−35
−40
−45
−50
−55
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −54.65
Std Dev 0

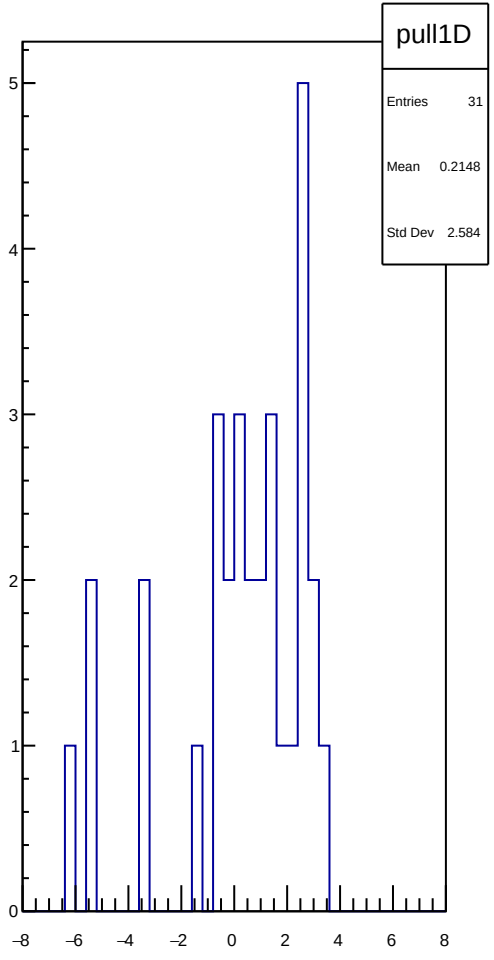

pull1D
Entries 31
Mean −0.1628
Std Dev 1.913

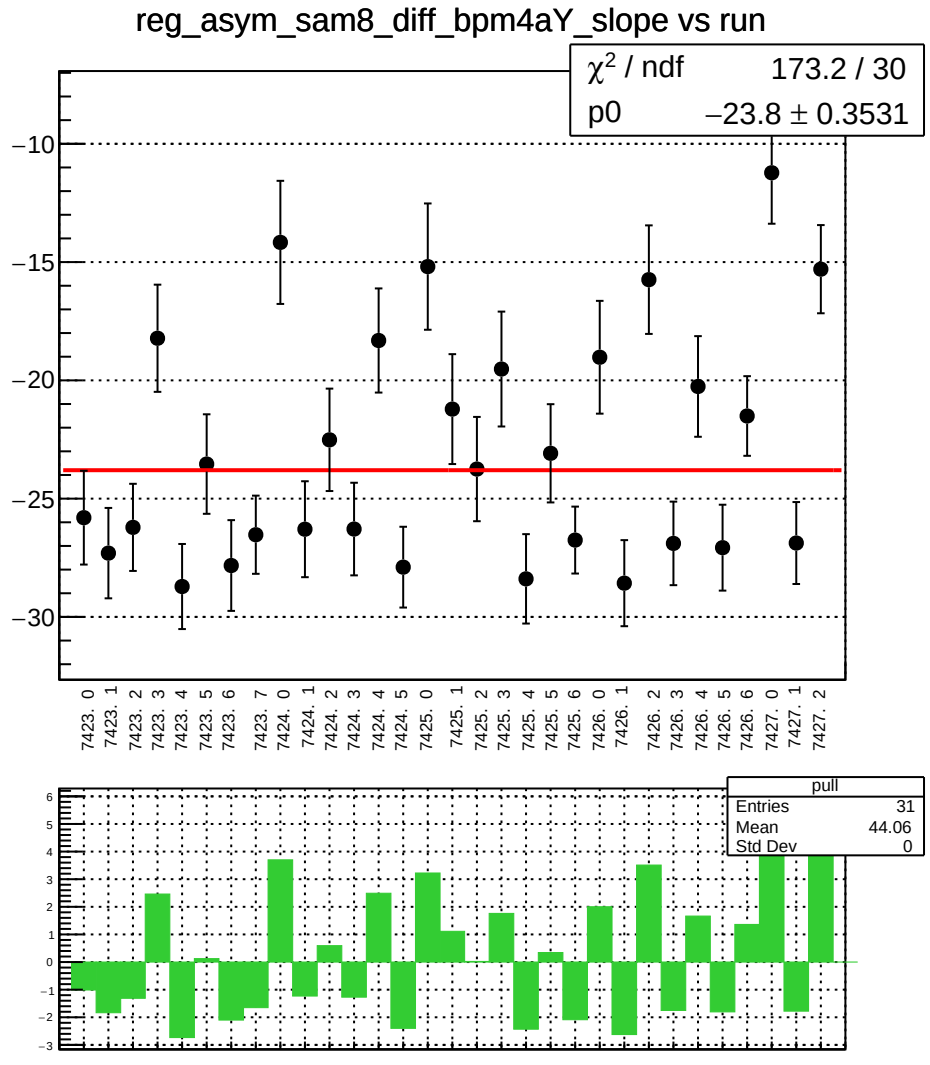

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 69.28 / 30
p0 −24.04 ± 0.3904
−15
−20
−25
−30
−35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 118
Std Dev 0
pull1D
Entries 31
Mean −0.05745
Std Dev 1.494

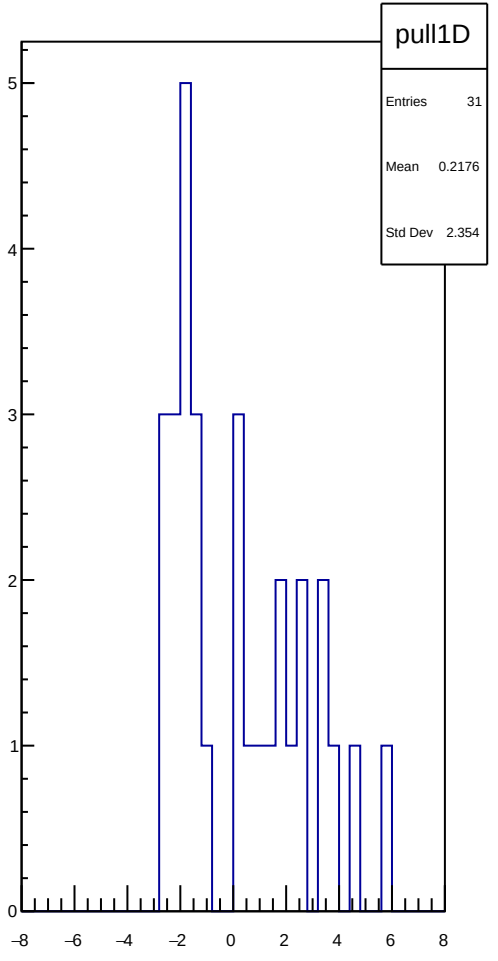

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 20.41 / 30
p0 0.6399 ± 0.01686
0.9
0.8
0.7
0.6
0.5
0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −249.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

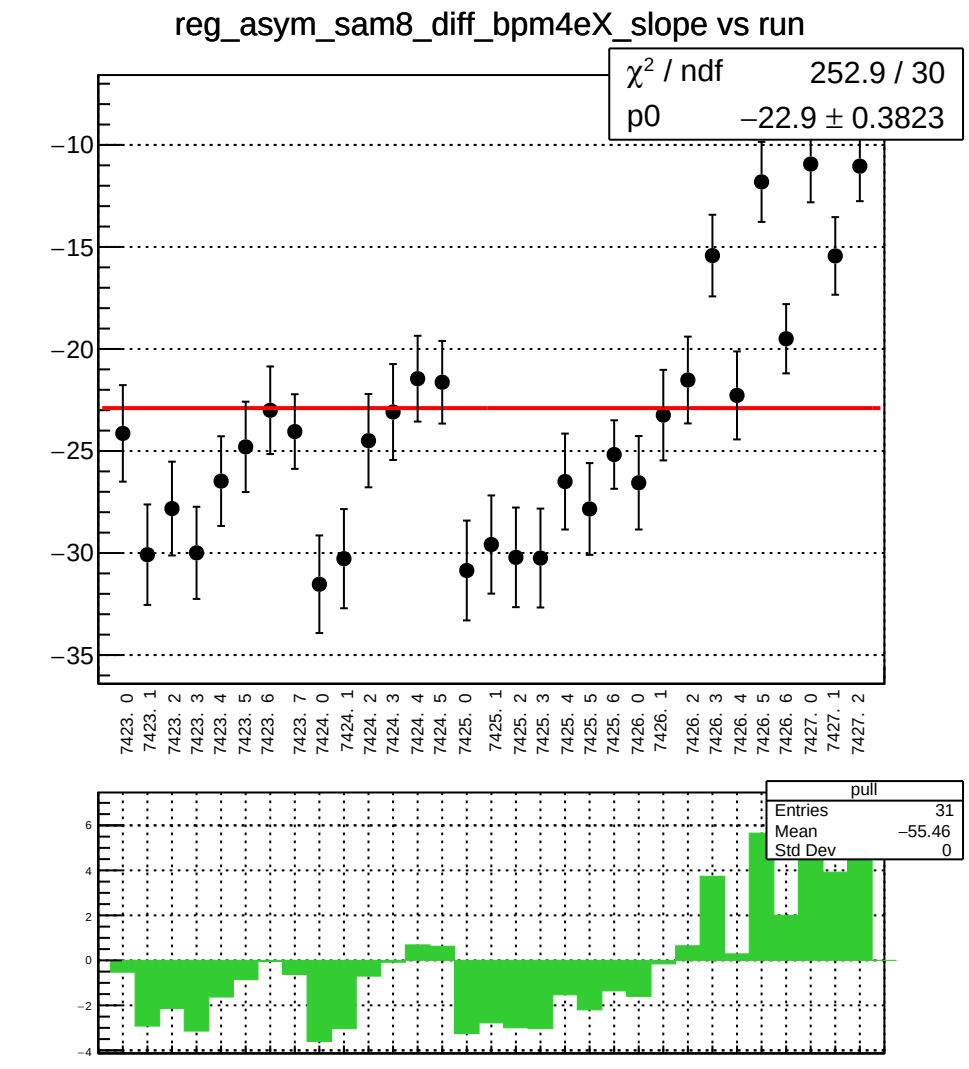

pull1D
Entries 31
Mean −0.01252
Std Dev 0.8113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

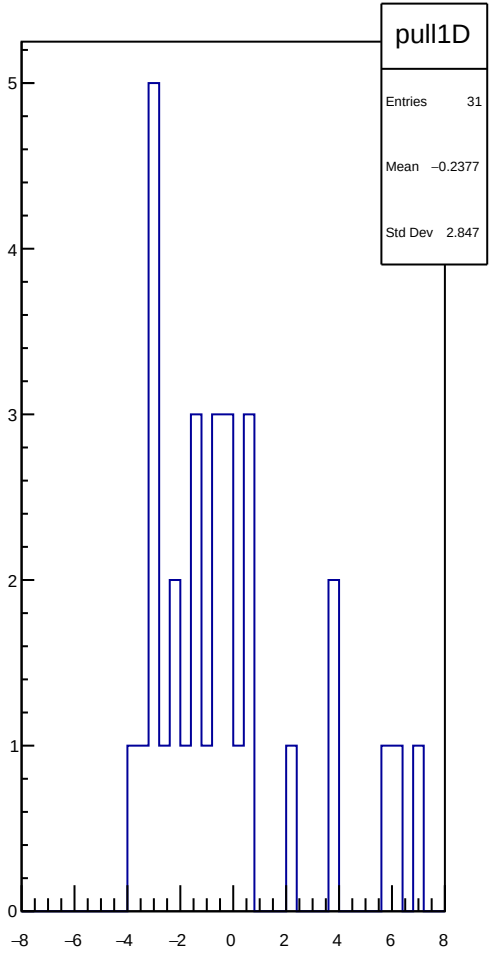

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 208.5 / 30
p0 −9.541 ± 0.3698
0
−5
−10
−15
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −53.92
Std Dev 0
2
0
−2
−4
−6

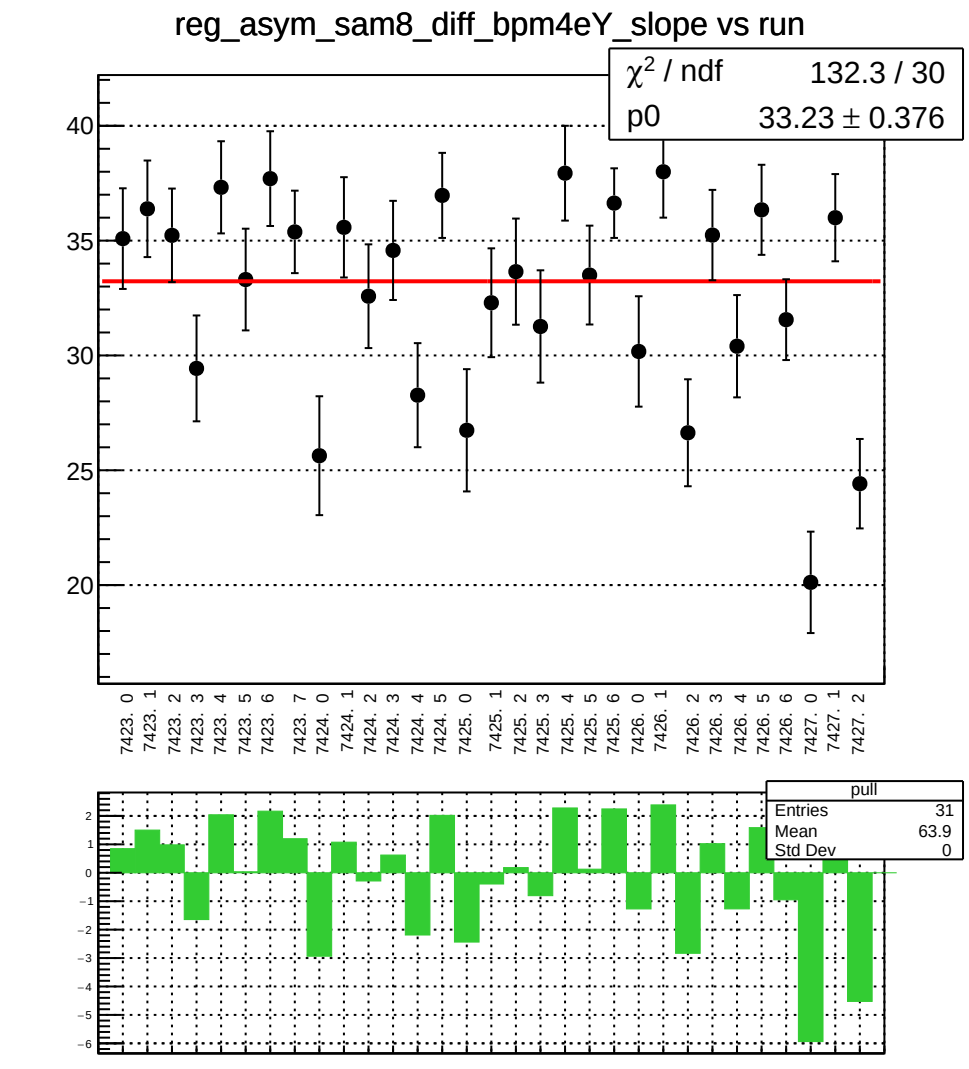

pull1D
Entries 31
Mean 0.2148
Std Dev 2.584
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

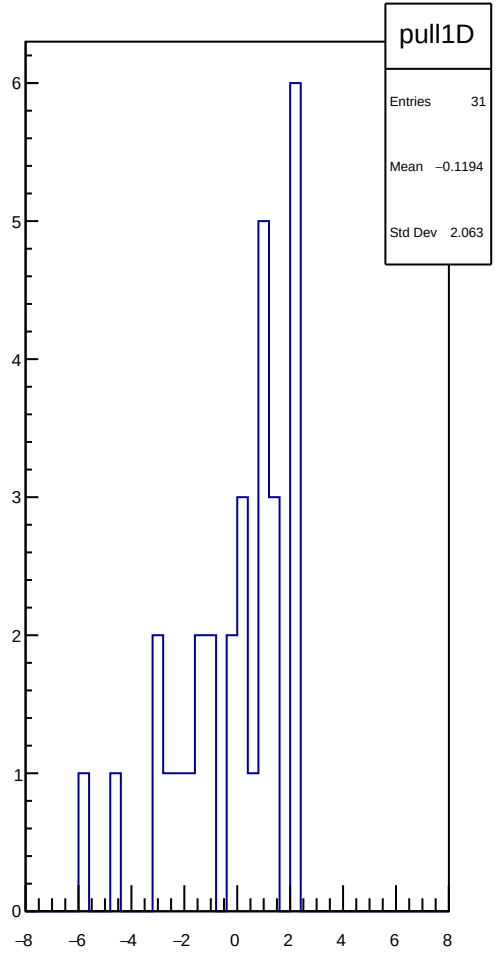

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 173.2 / 30
p0 −23.8 ± 0.3531
−10
−15
−20
−25
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 44.06
Std Dev 0
6
5
4
3
2
1
0
−1
−2
−3

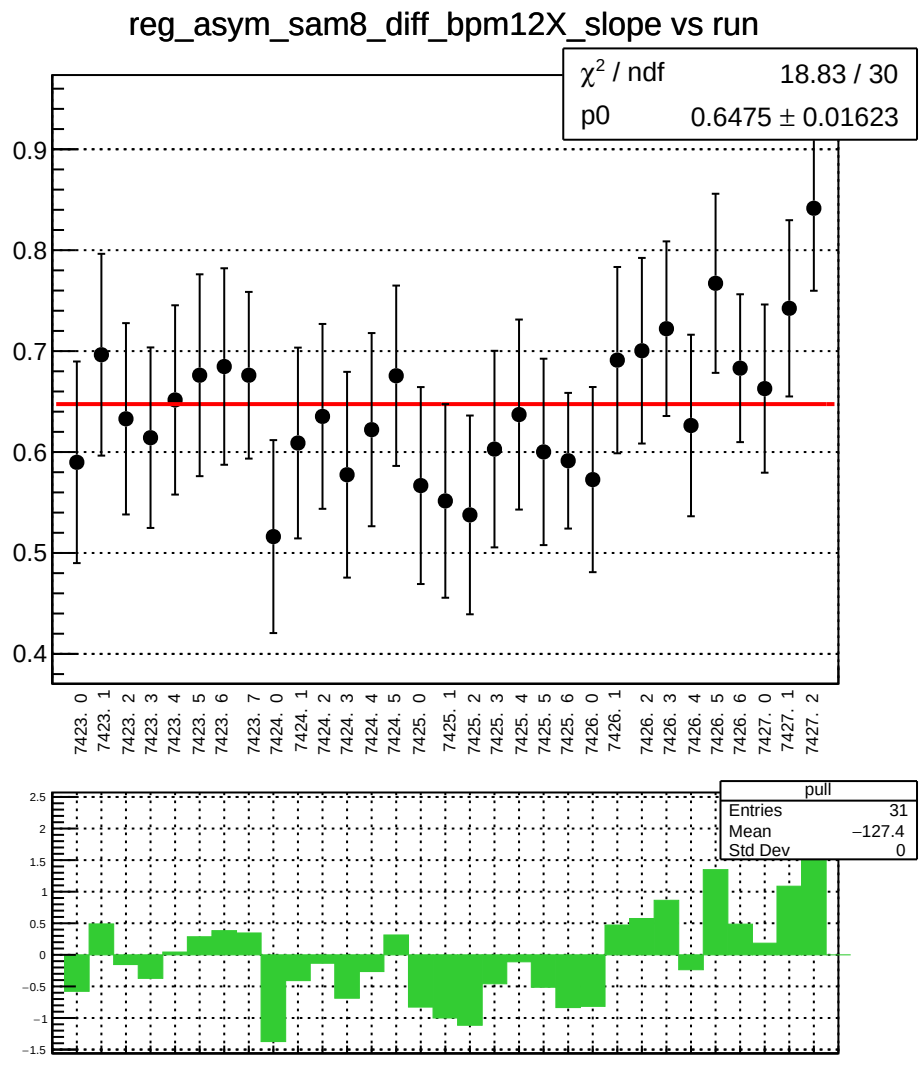

pull1D
Entries 31
Mean 0.2176
Std Dev 2.354
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

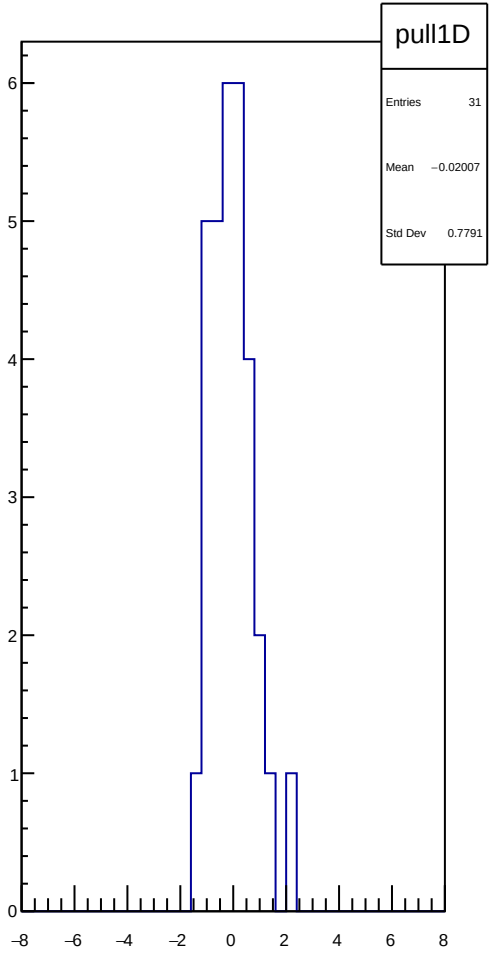

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 252.9 / 30
p0 −22.9 ± 0.3823
−10
−15
−20
−25
−30
−35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −55.46
Std Dev 0
6
4
2
0
−2
−4

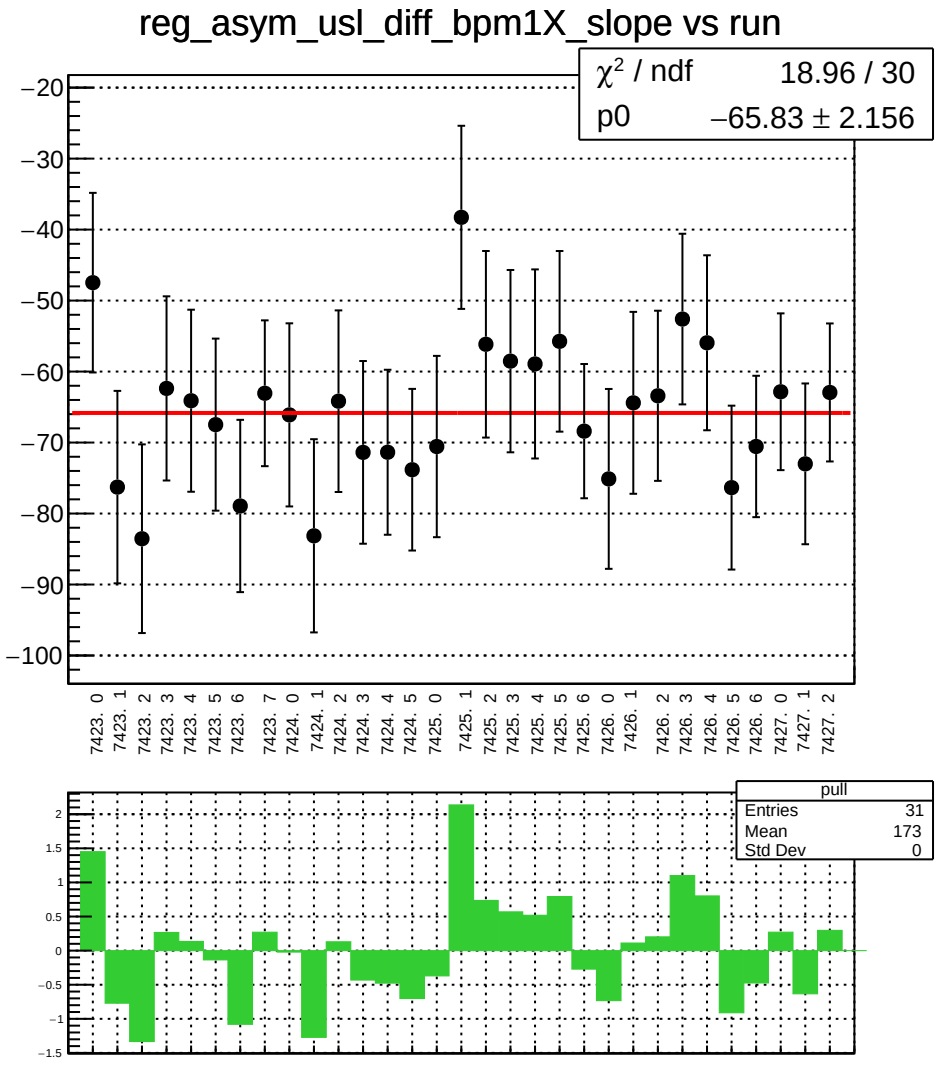

pull1D
Entries 31
Mean −0.2377
Std Dev 2.847
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

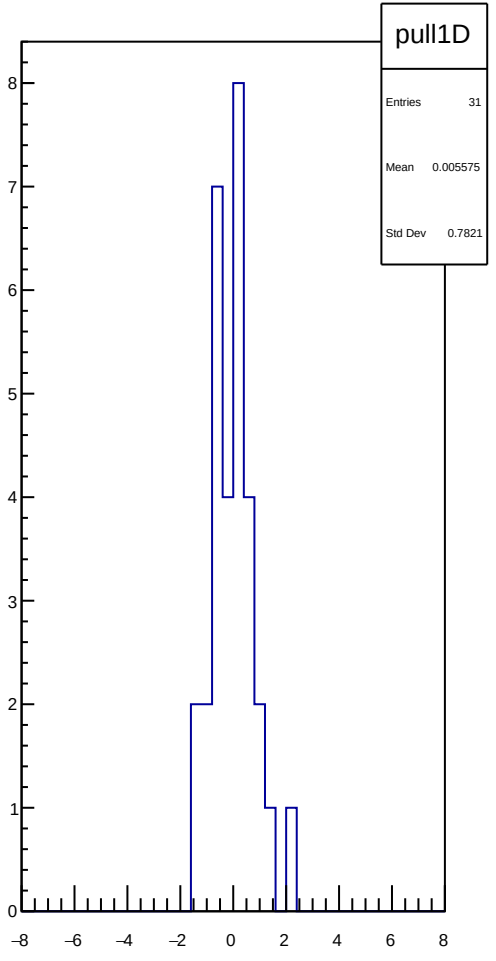

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 132.3 / 30
p0 33.23 ± 0.376
40
35
30
25
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 63.9
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6

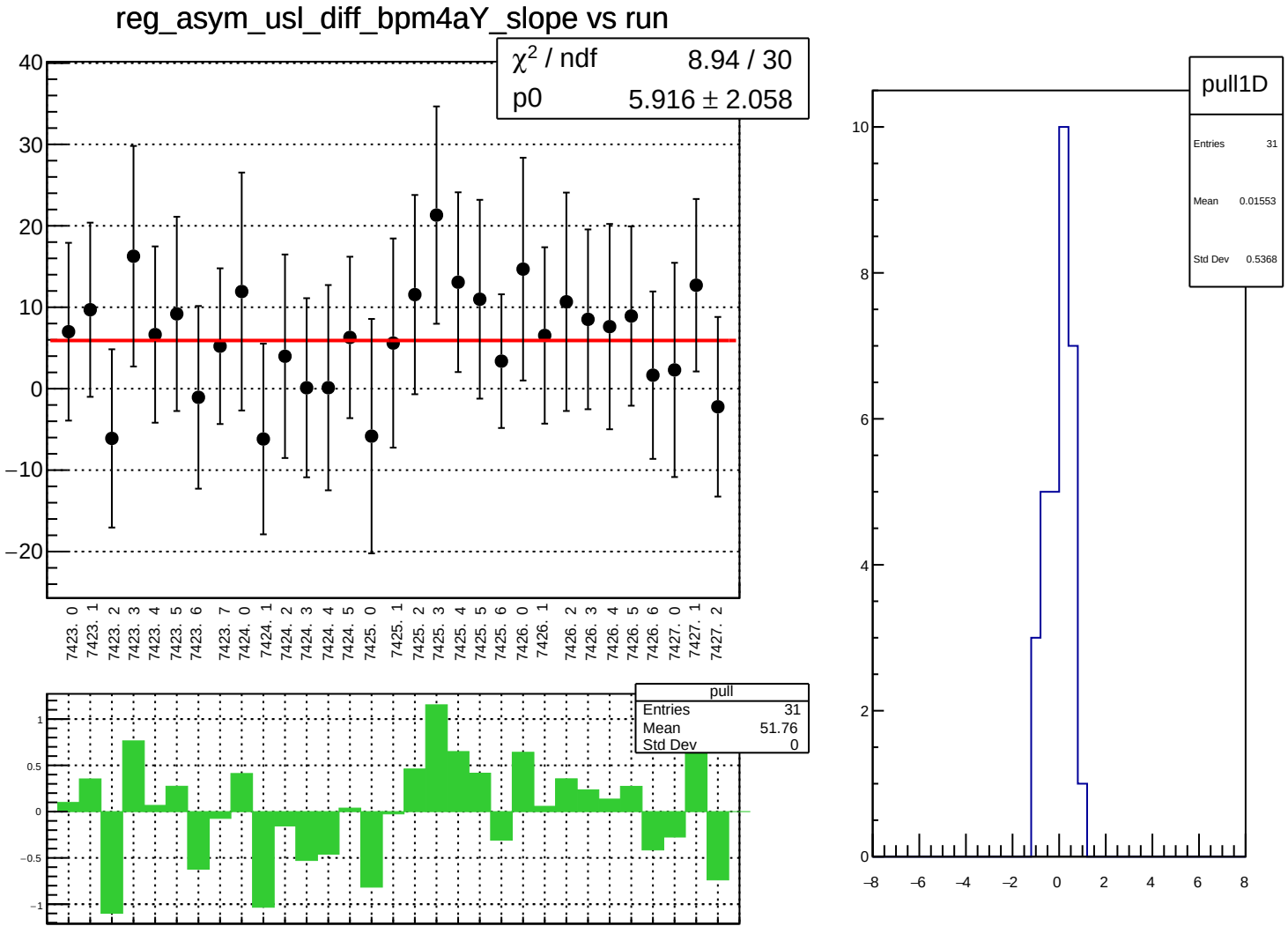

pull1D
Entries 31
Mean −0.1194
Std Dev 2.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

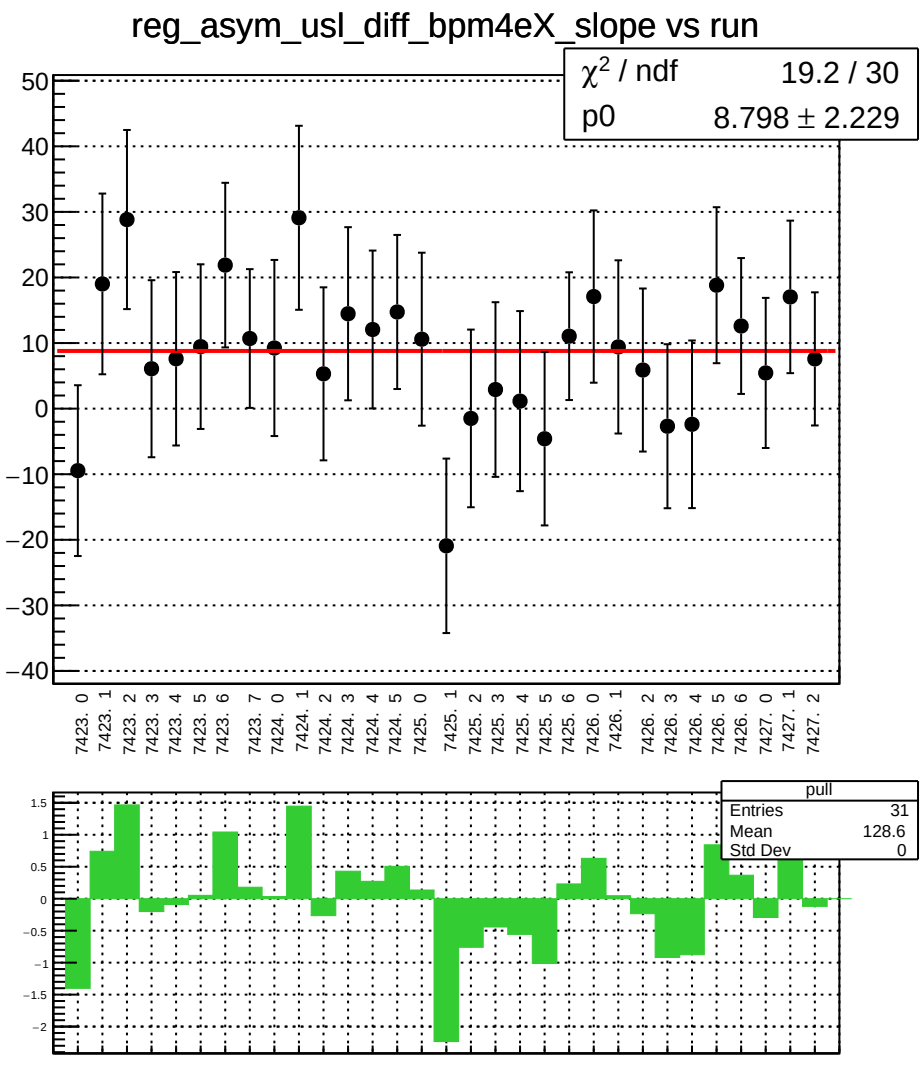

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 18.83 / 30
p0 0.6475 ± 0.01623
0.9
0.8
0.7
0.6
0.5
0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −127.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

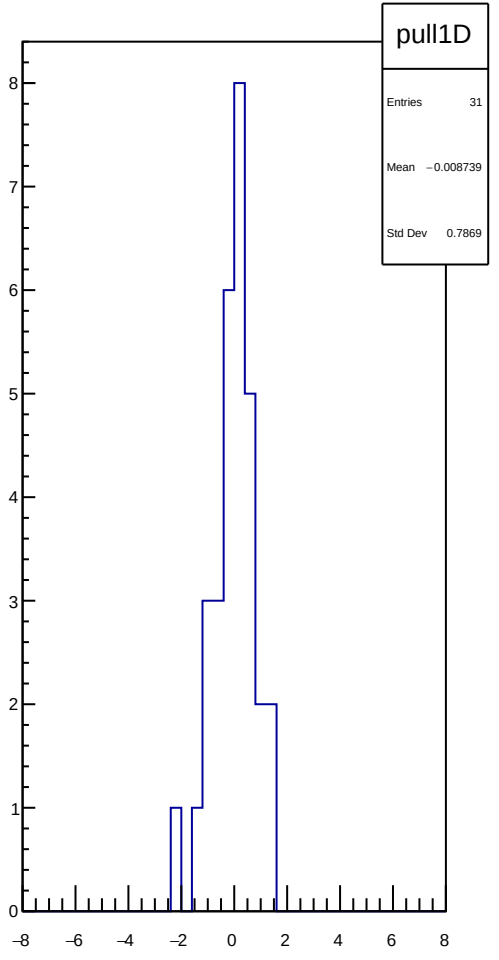

pull1D
Entries 31
Mean −0.02007
Std Dev 0.7791
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

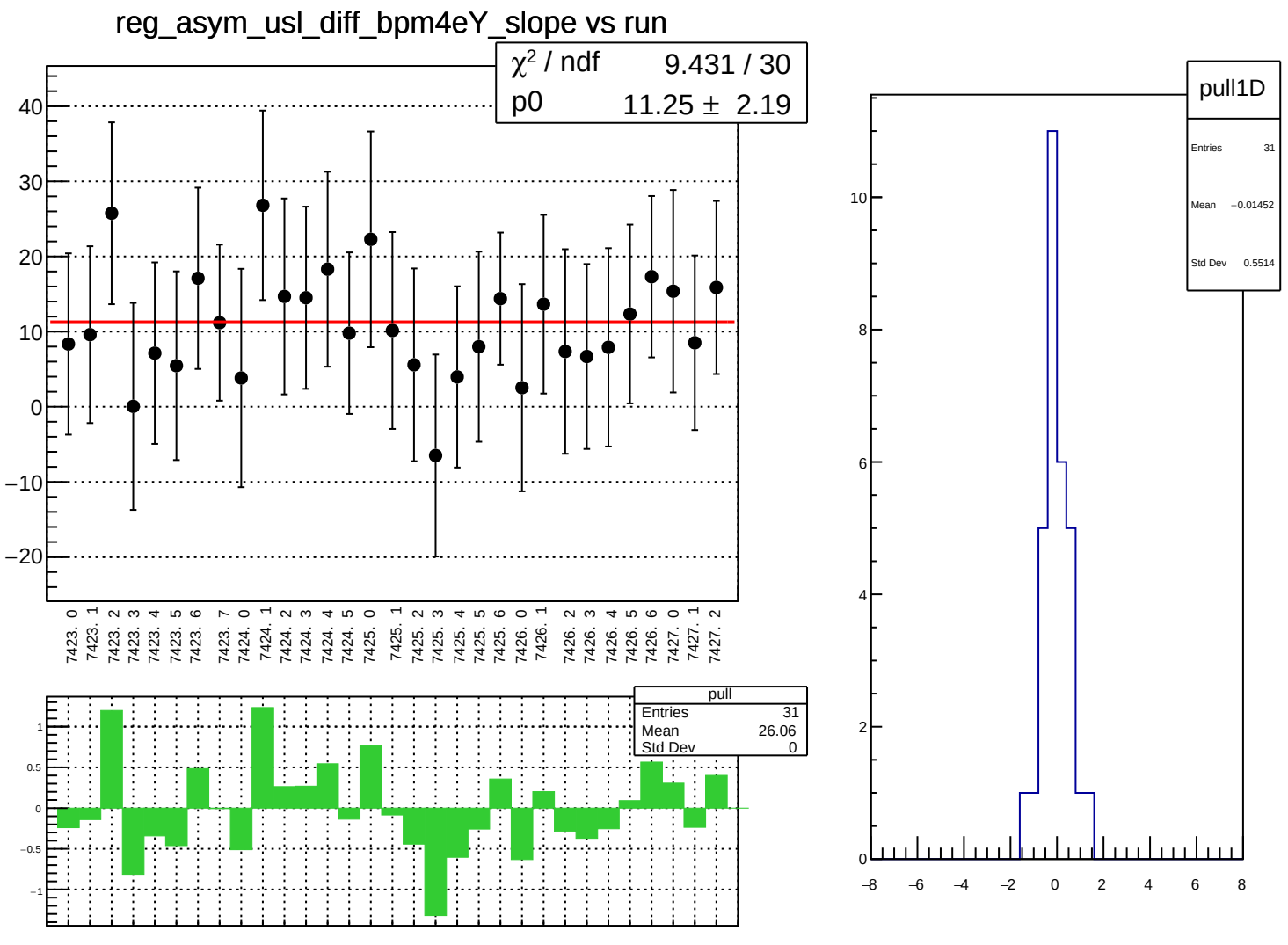

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 18.96 / 30
p0 −65.83 ± 2.156
pull
Entries 31
Mean 173
Std Dev 0

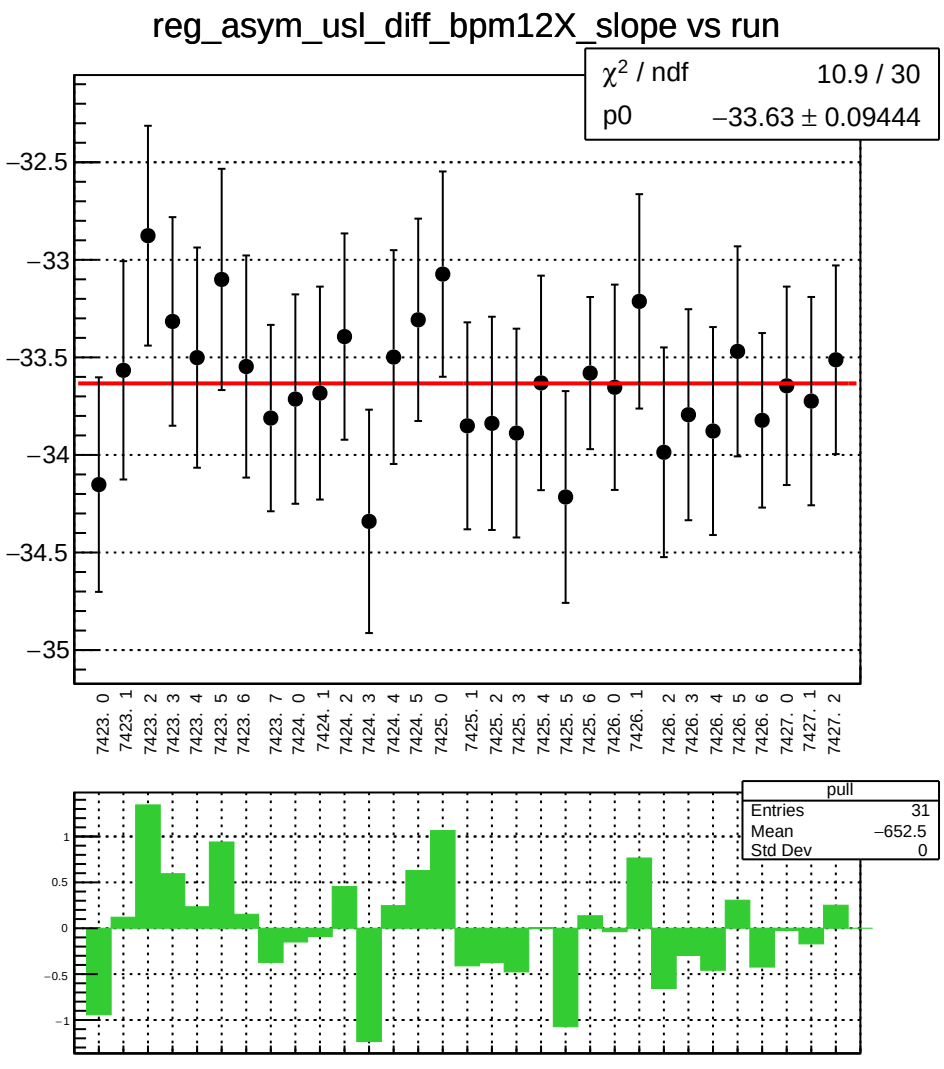

pull1D
Entries 31
Mean 0.005575
Std Dev 0.7821

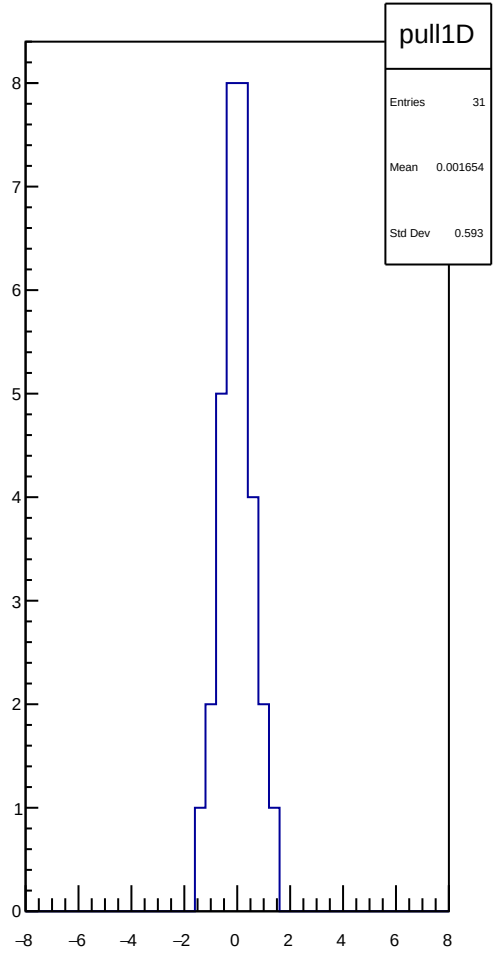

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 8.94 / 30
p0 5.916 ± 2.058
40
30
20
10
0
−10
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 51.76
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.01553
Std Dev 0.5368
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

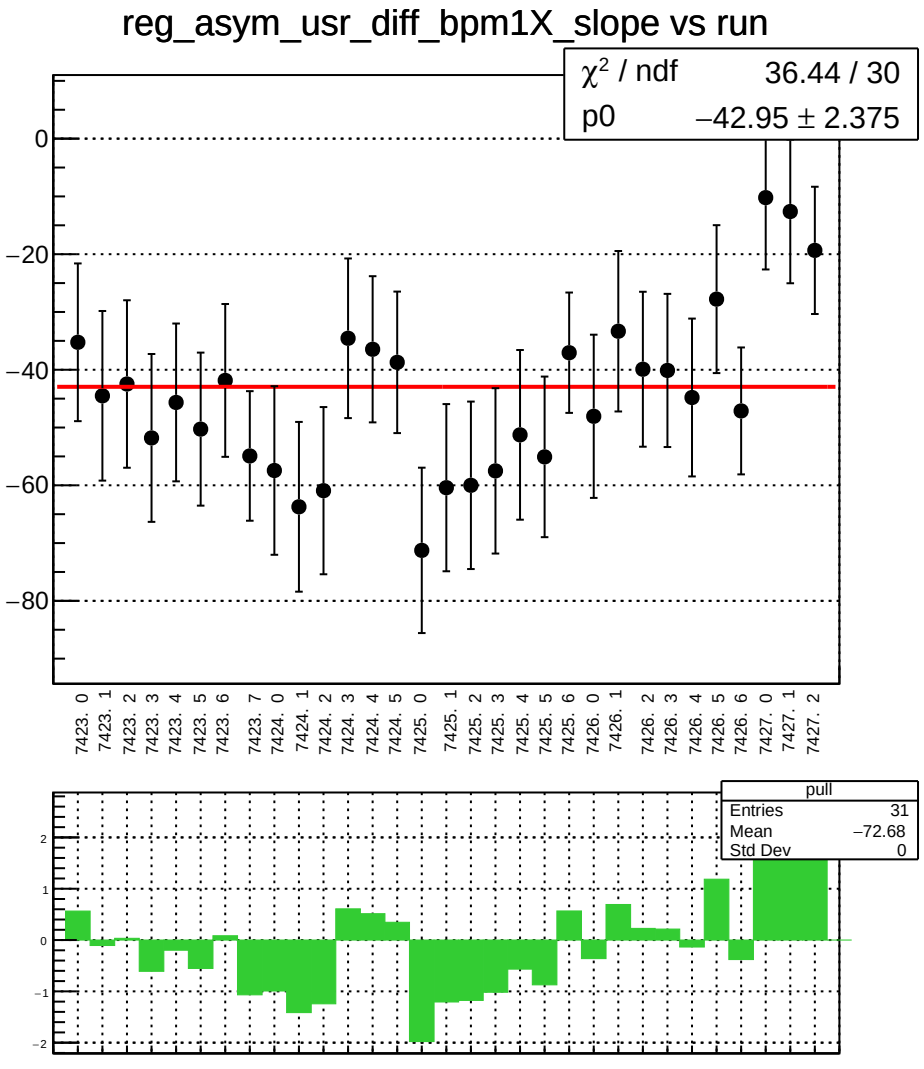

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 19.2 / 30
p0 8.798 ± 2.229
50
40
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 128.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

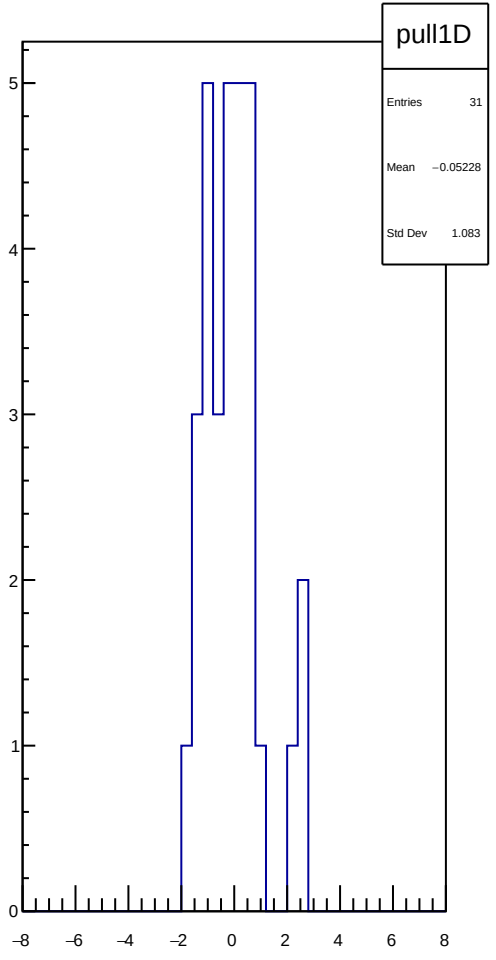

pull1D
Entries 31
Mean −0.008739
Std Dev 0.7869
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

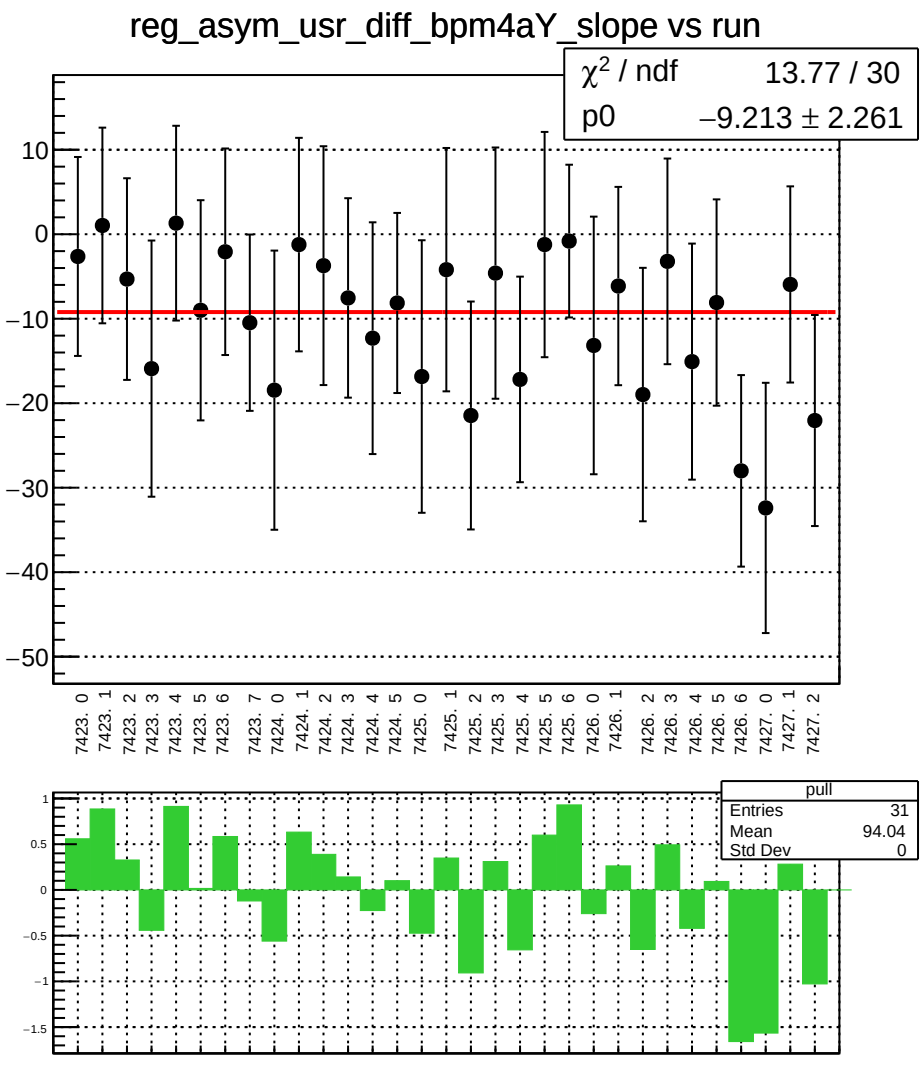

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 9.431 / 30
p0 11.25 ± 2.19
40
30
20
10
0
−10
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 26.06
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.01452
Std Dev 0.5514
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

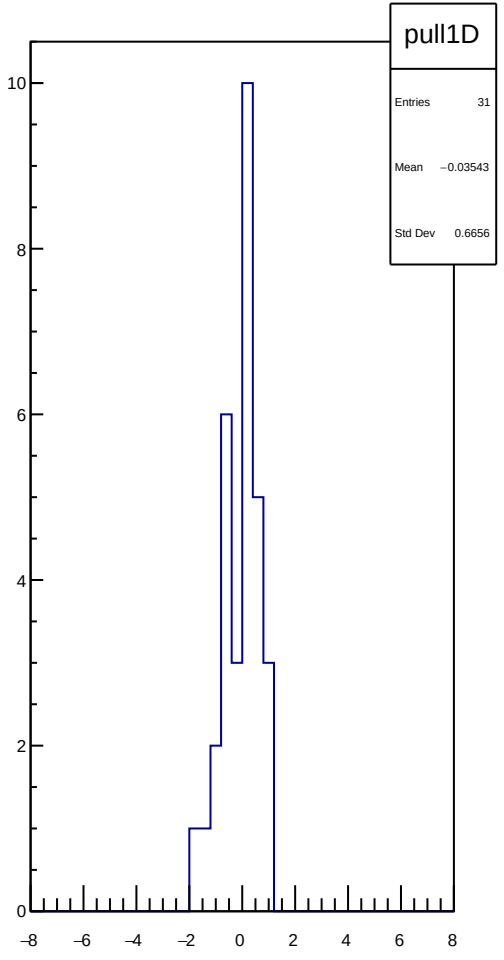

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 10.9 / 30
p0 −33.63 ± 0.09444
−32.5
−33
−33.5
−34
−34.5
−35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −652.5
Std Dev 0
1
0.5
0
−0.5
−1

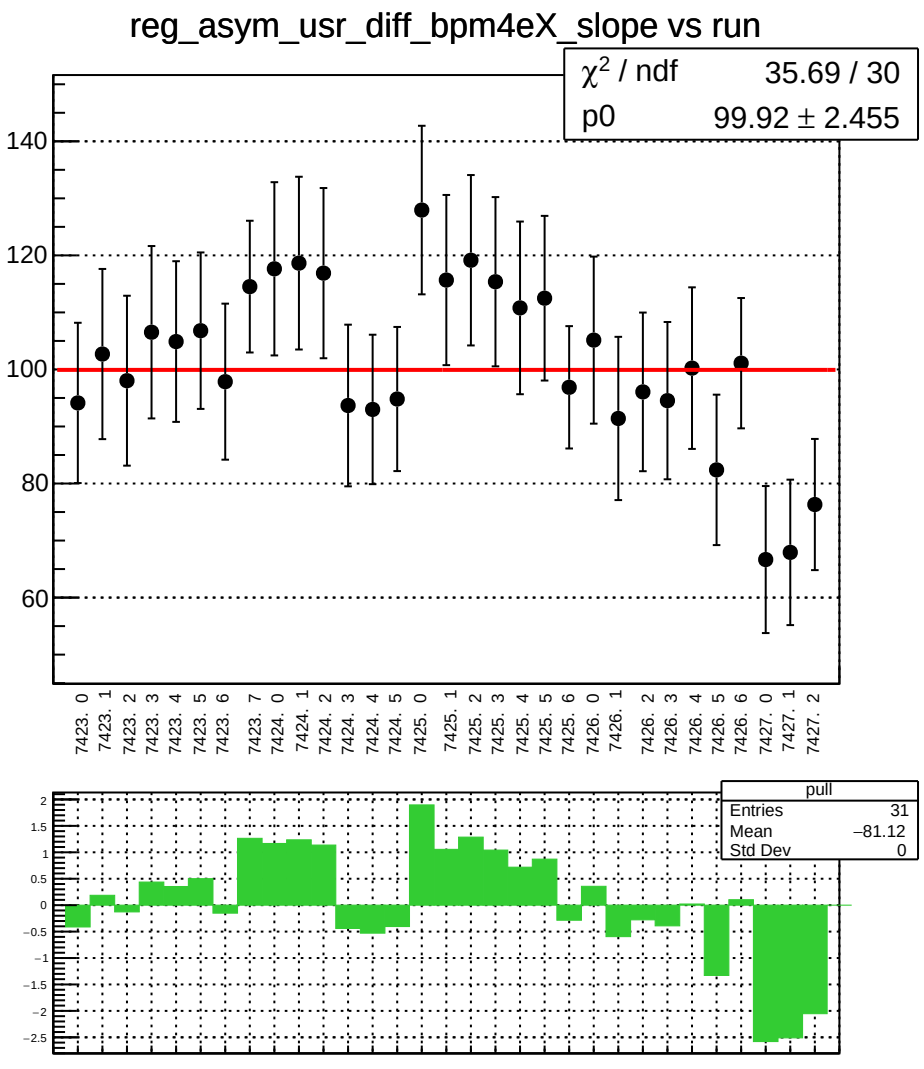

pull1D
Entries 31
Mean 0.001654
Std Dev 0.593
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

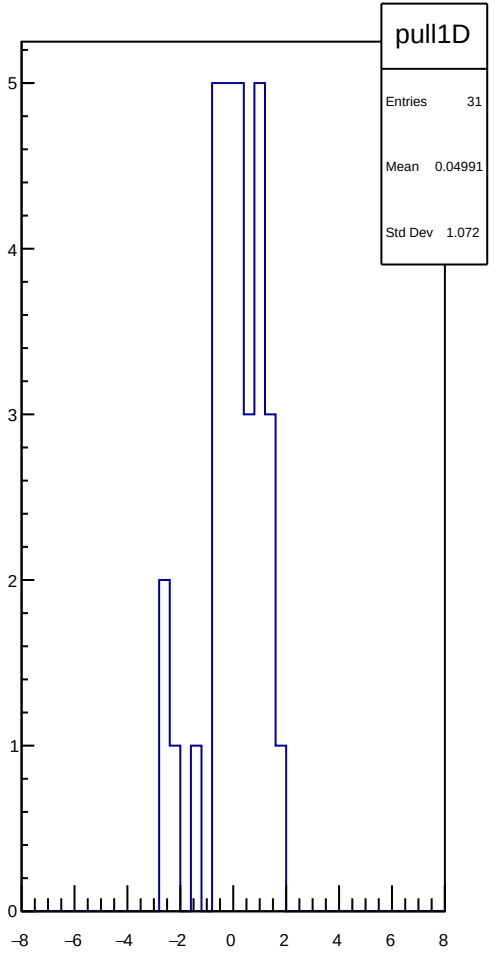

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 36.44 / 30
p0 −42.95 ± 2.375
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −72.68
Std Dev 0
2
1
0
−1
−2

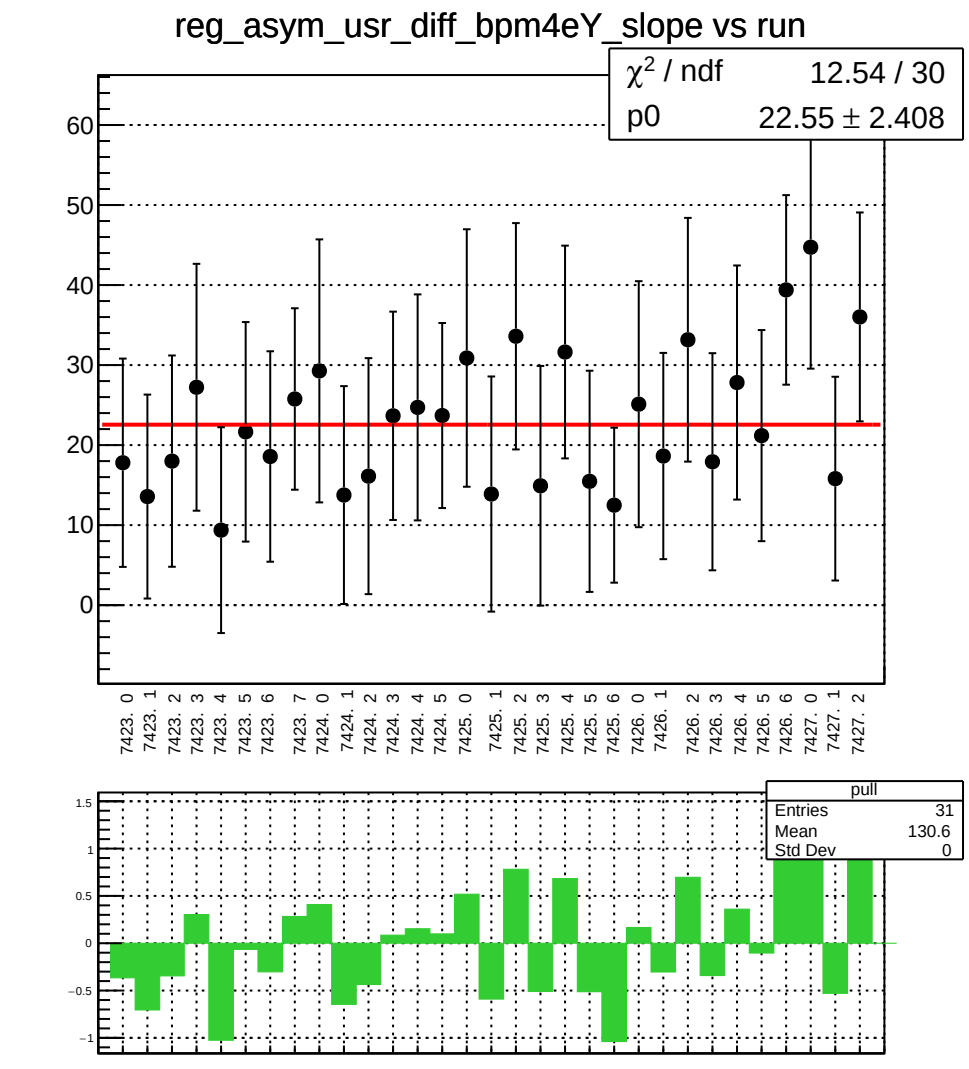

pull1D
Entries 31
Mean −0.05228
Std Dev 1.083
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

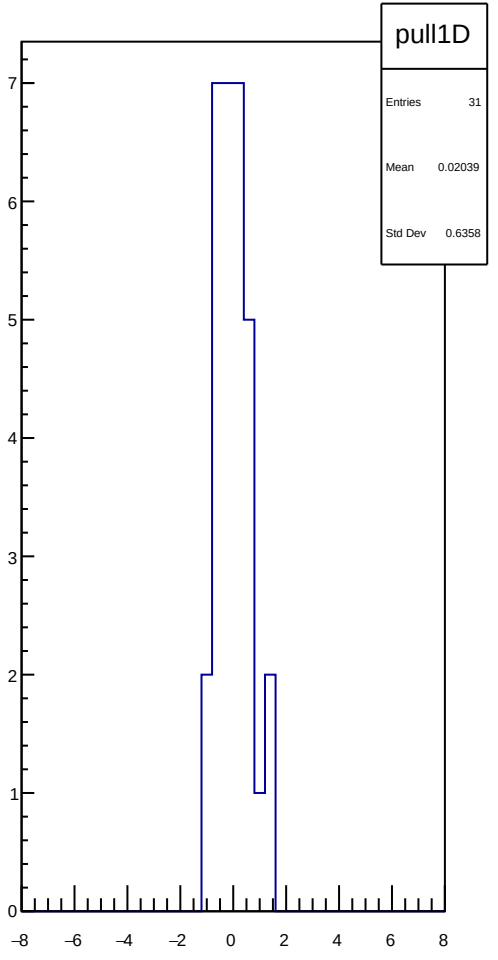

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 13.77 / 30
p0 −9.213 ± 2.261
10
0
−10
−20
−30
−40
−50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 94.04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

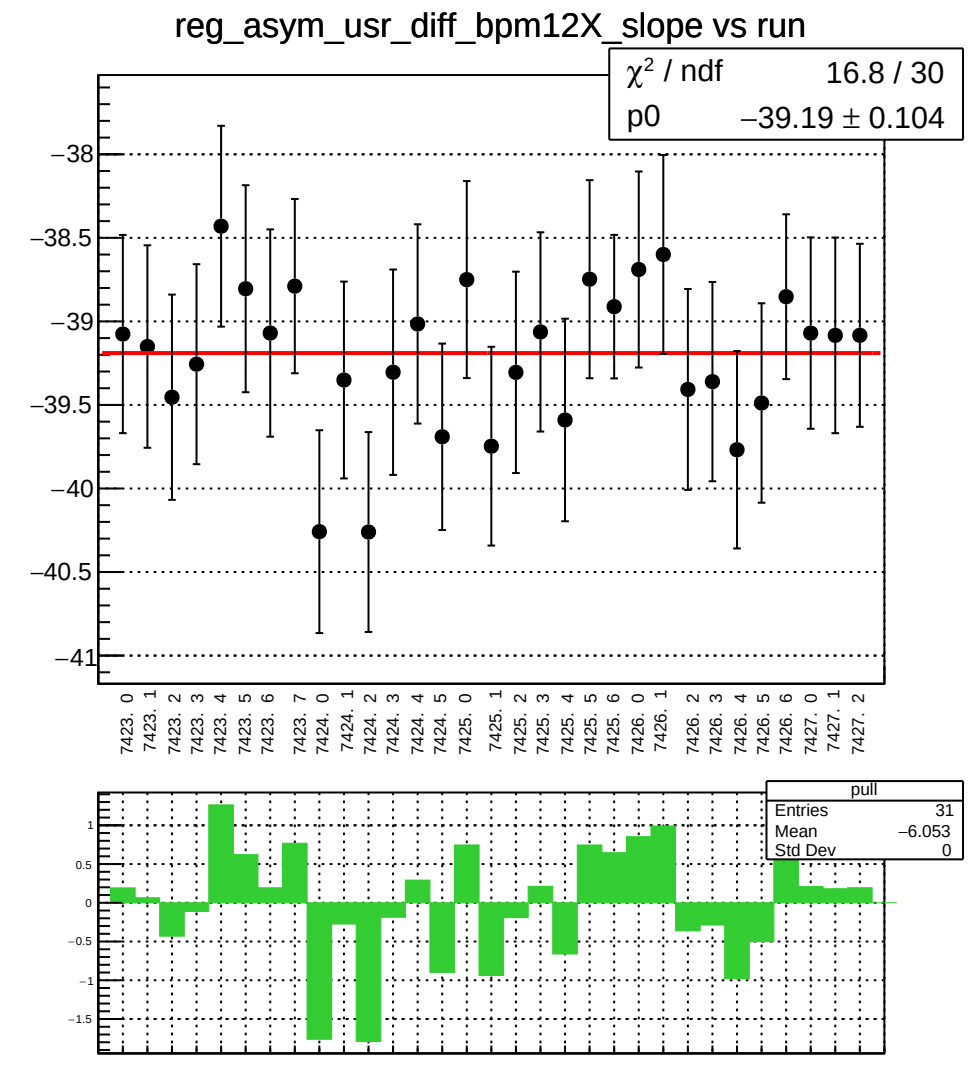

pull1D
Entries 31
Mean −0.03543
Std Dev 0.6656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

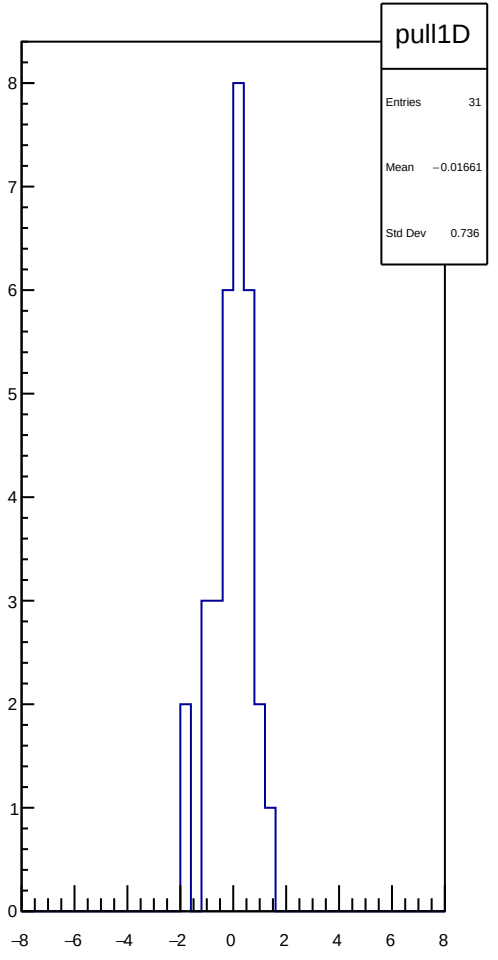

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 35.69 / 30
p0 99.92 ± 2.455
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −81.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

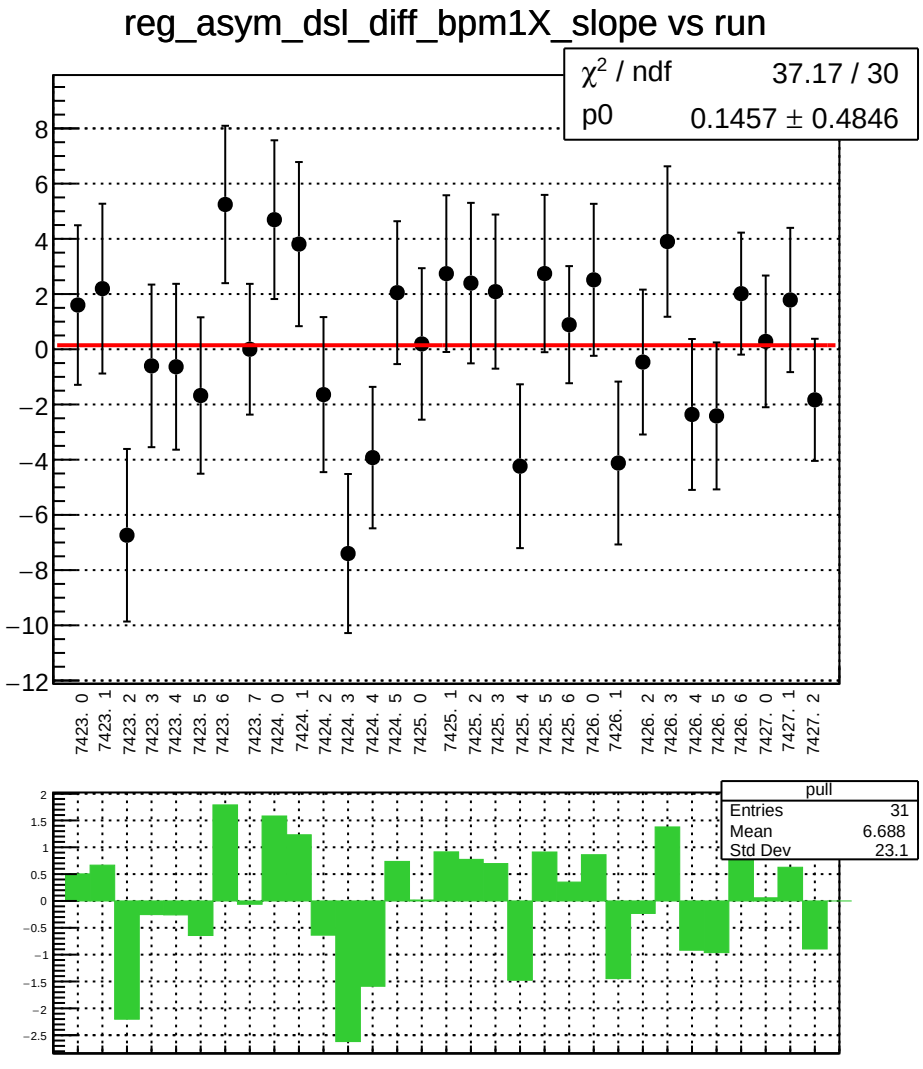

pull1D
Entries 31
Mean 0.04991
Std Dev 1.072
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

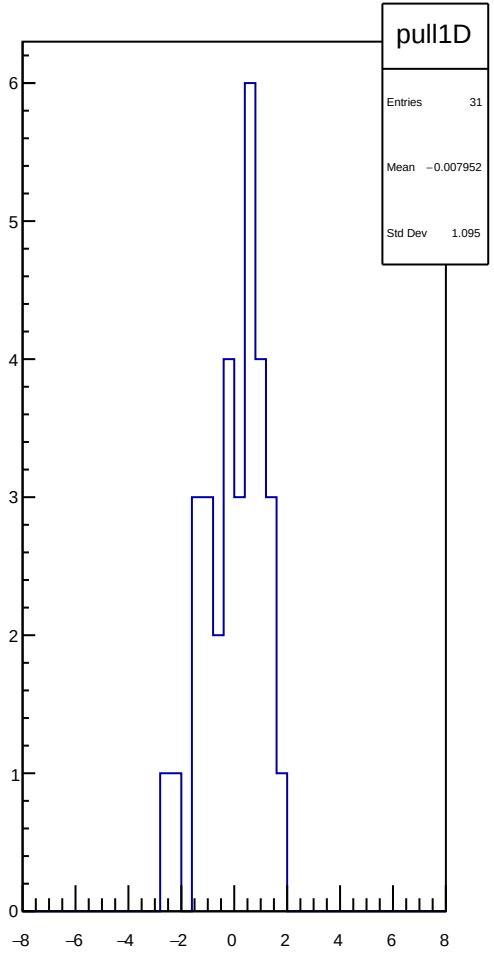

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 12.54 / 30
p0 22.55 ± 2.408
60
50
40
30
20
10
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 130.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

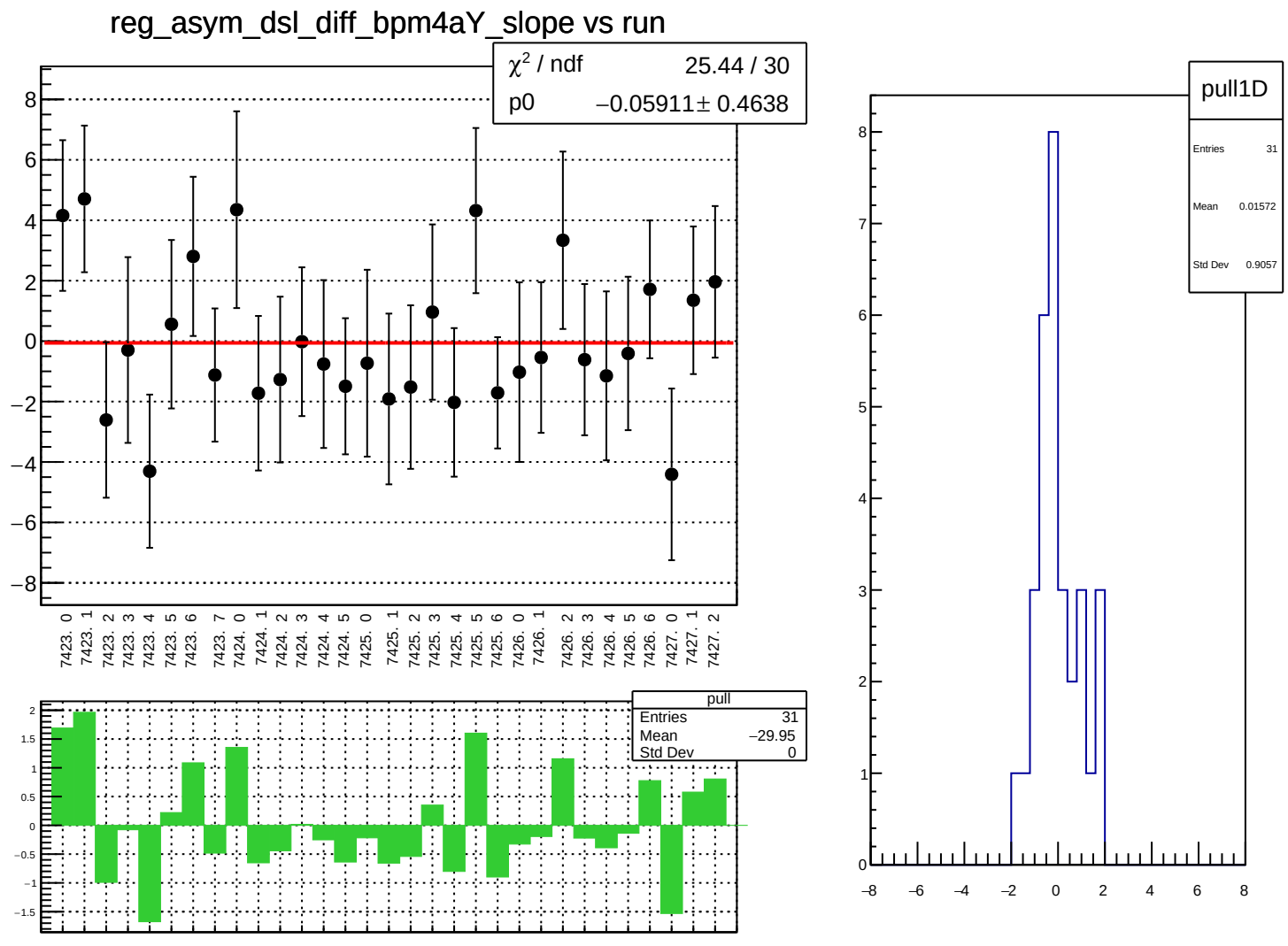

pull1D
Entries 31
Mean 0.02039
Std Dev 0.6358
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

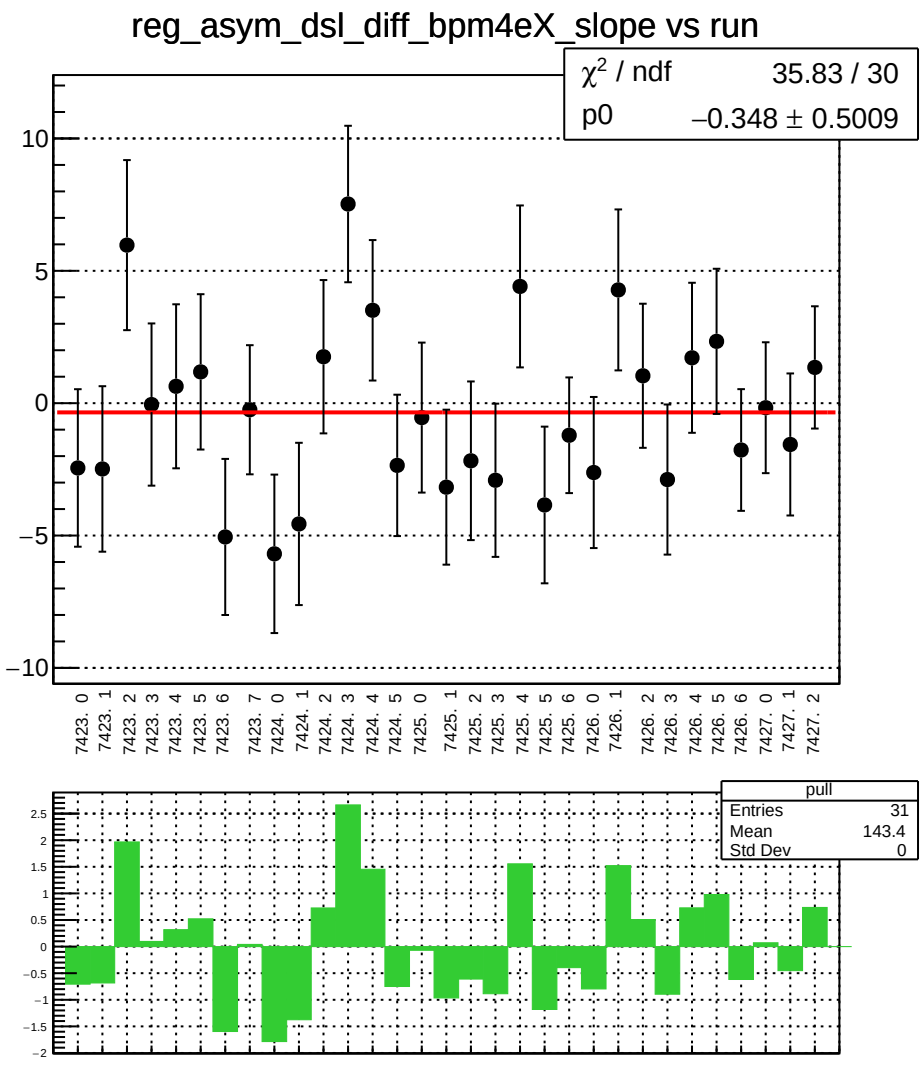

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 16.8 / 30
p0 −39.19 ± 0.104
−38
−38.5
−39
−39.5
−40
−40.5
−41
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −6.053
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

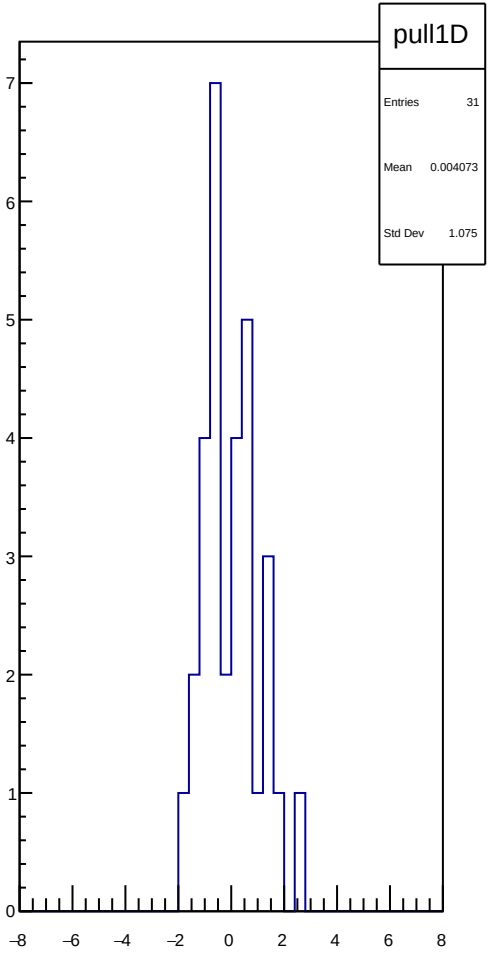

pull1D
Entries 31
Mean −0.01661
Std Dev 0.736
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

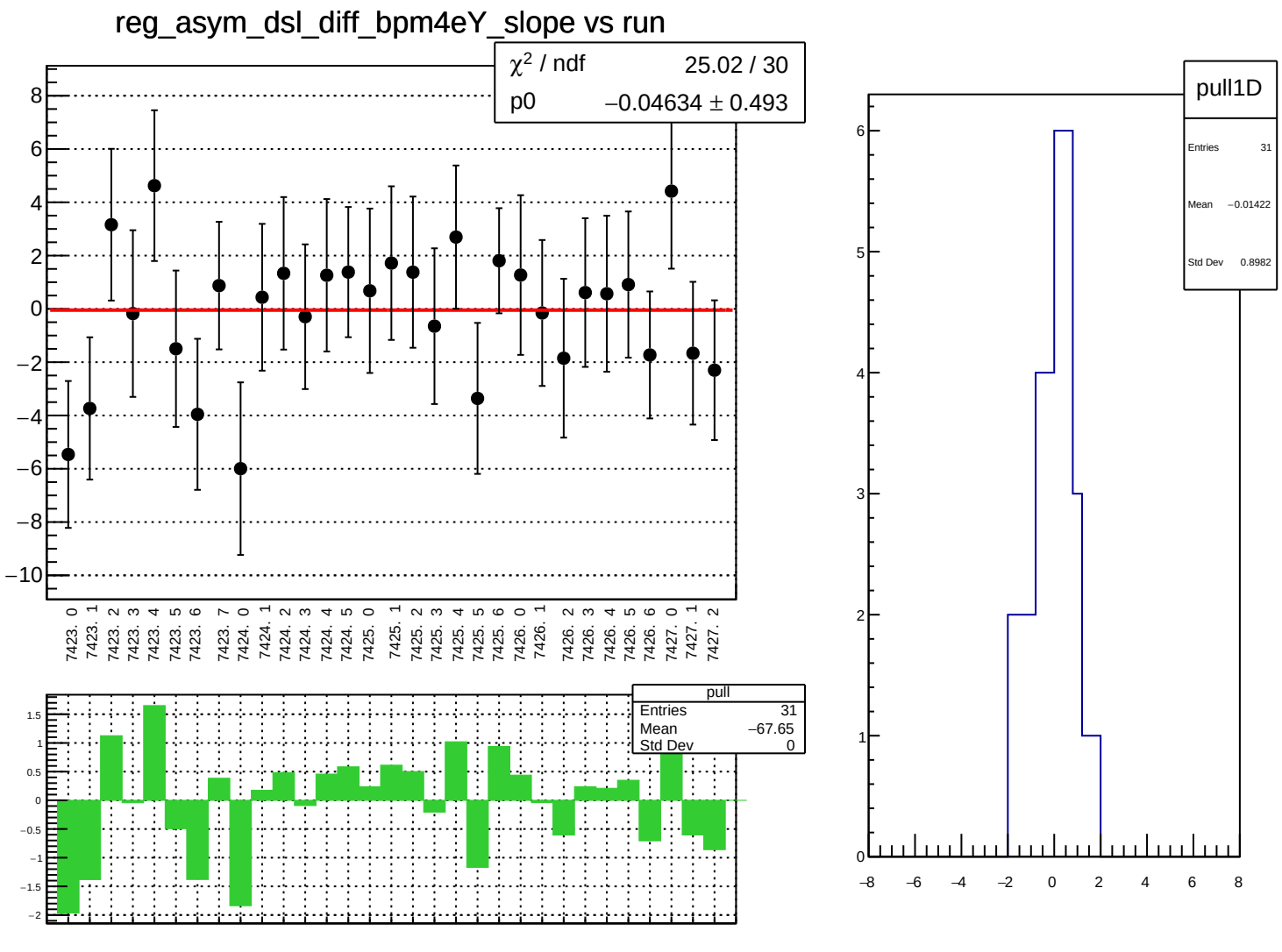

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 37.17 / 30
p0 0.1457 ± 0.4846
pull
Entries 31
Mean 6.688
Std Dev 23.1

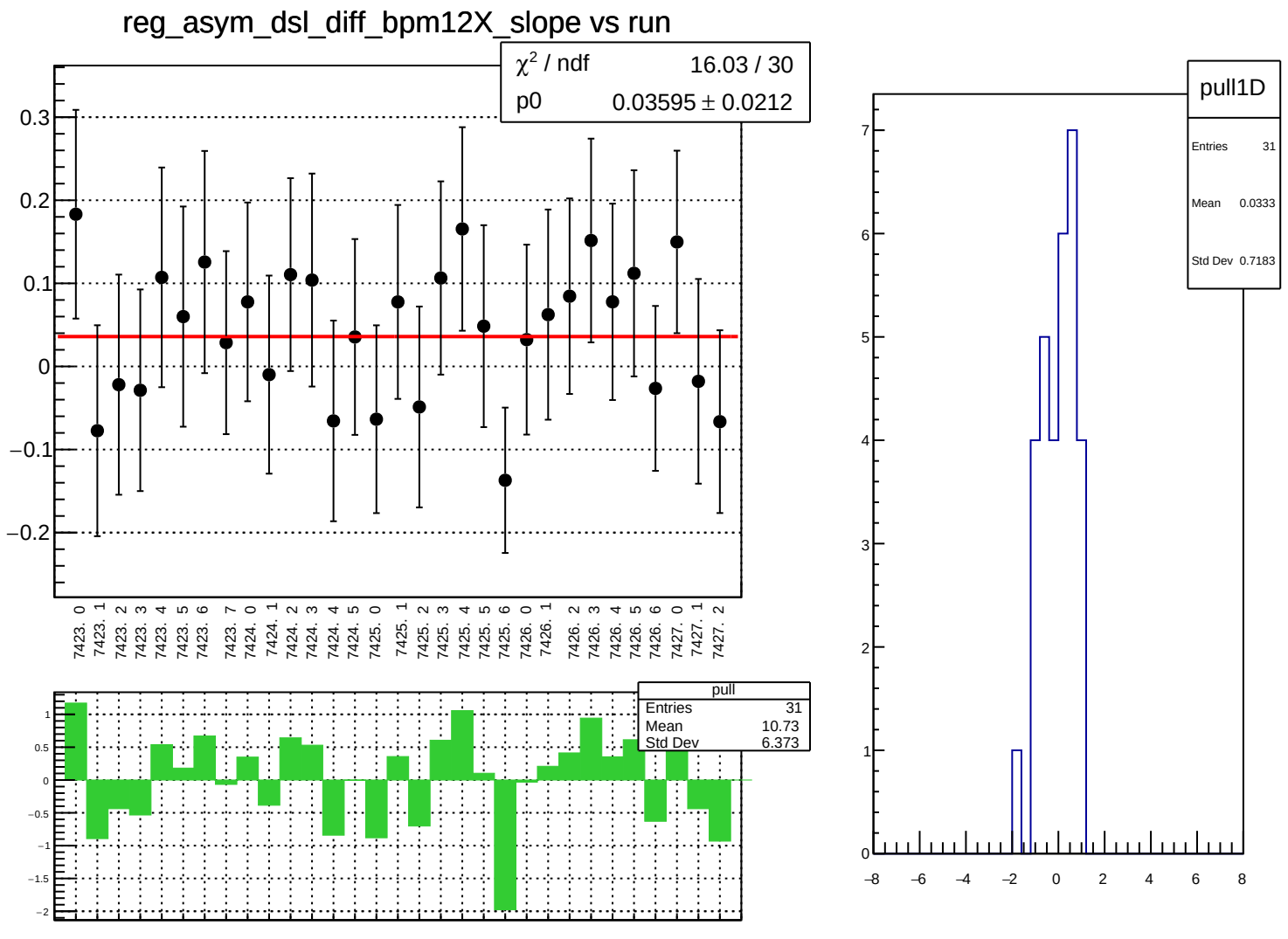

pull1D
Entries 31
Mean −0.007952
Std Dev 1.095

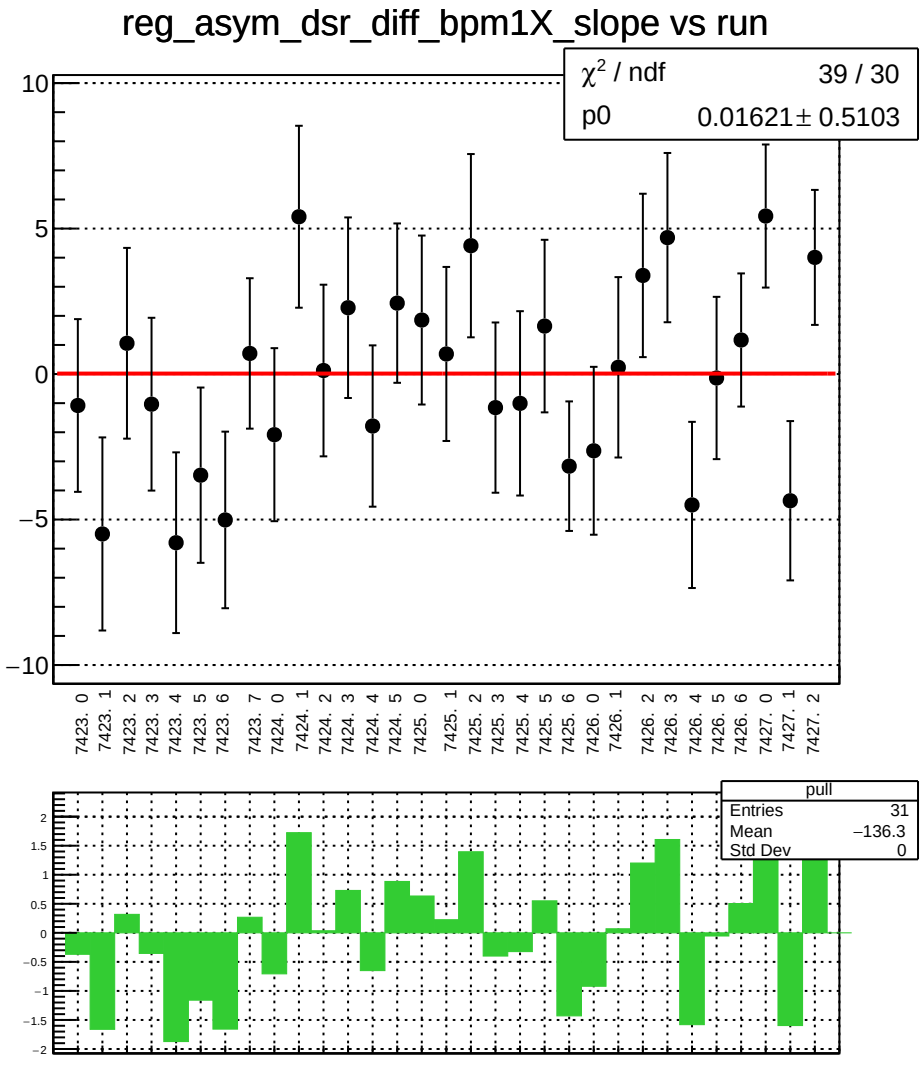

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 25.44 / 30
p0 −0.05911± 0.4638
pull
Entries 31
Mean −29.95
Std Dev 0
pull1D
Entries 31
Mean 0.01572
Std Dev 0.9057

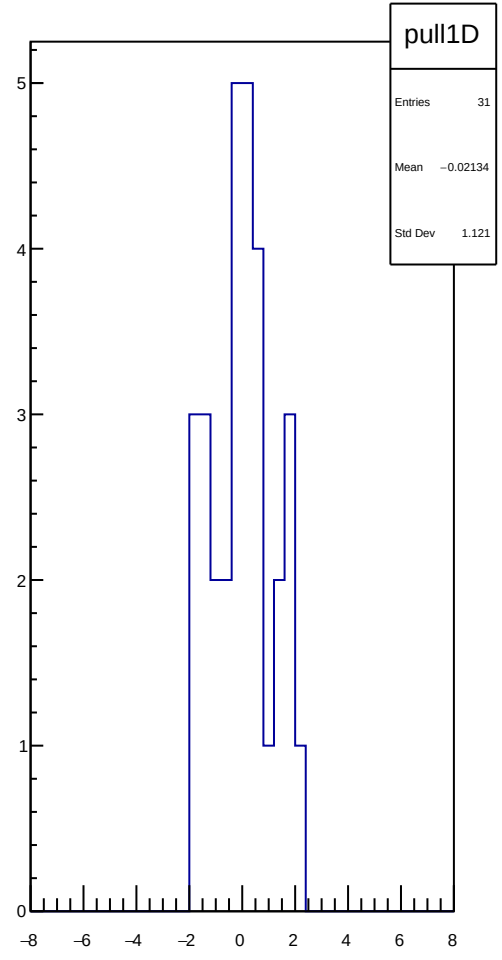

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 35.83 / 30
p0 −0.348 ± 0.5009
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 143.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

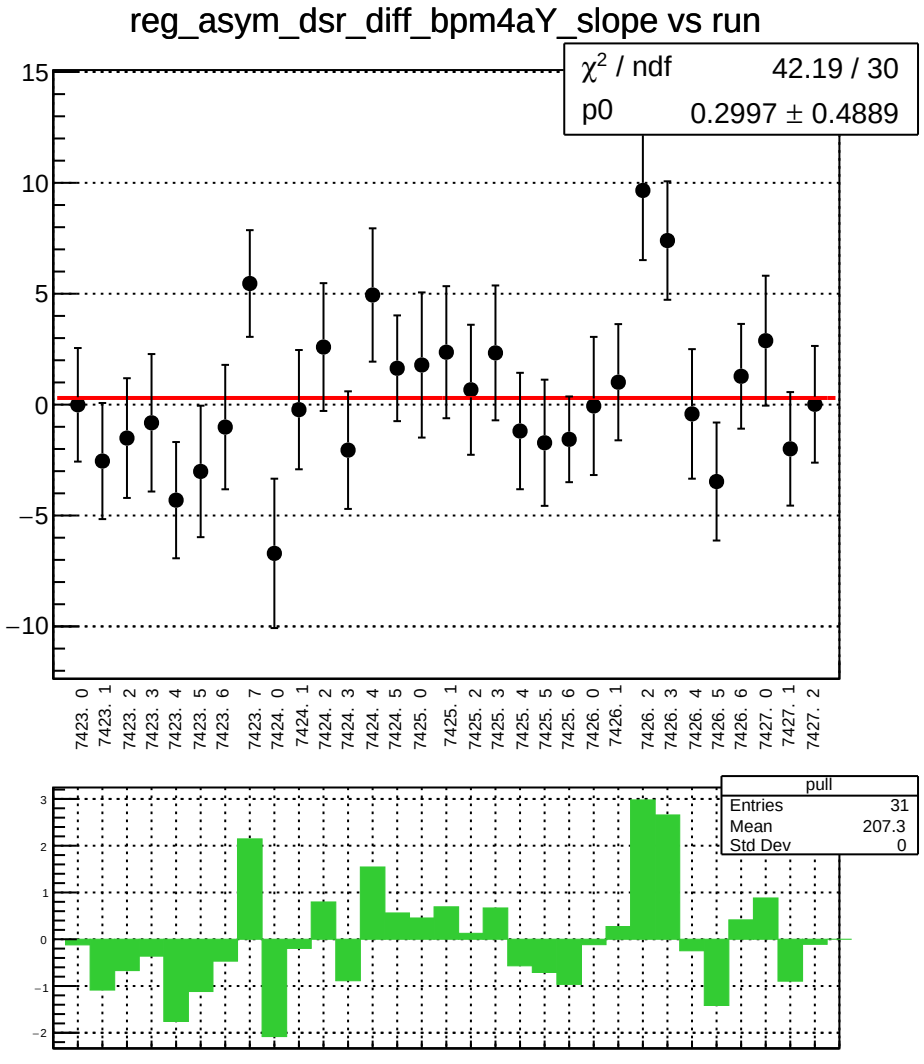

pull1D
Entries 31
Mean 0.004073
Std Dev 1.075
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

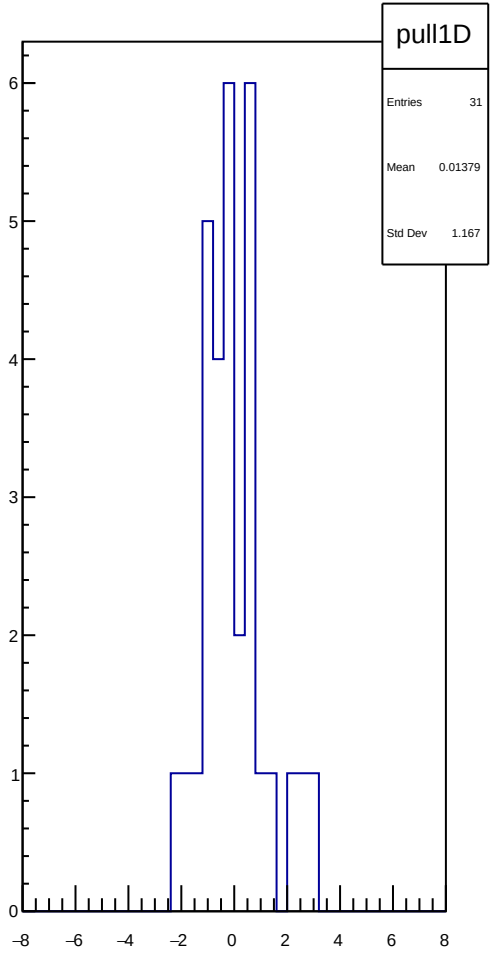

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 25.02 / 30
p0 −0.04634 ± 0.493
pull
Entries 31
Mean −67.65
Std Dev 0
pull1D
Entries 31
Mean −0.01422
Std Dev 0.8982

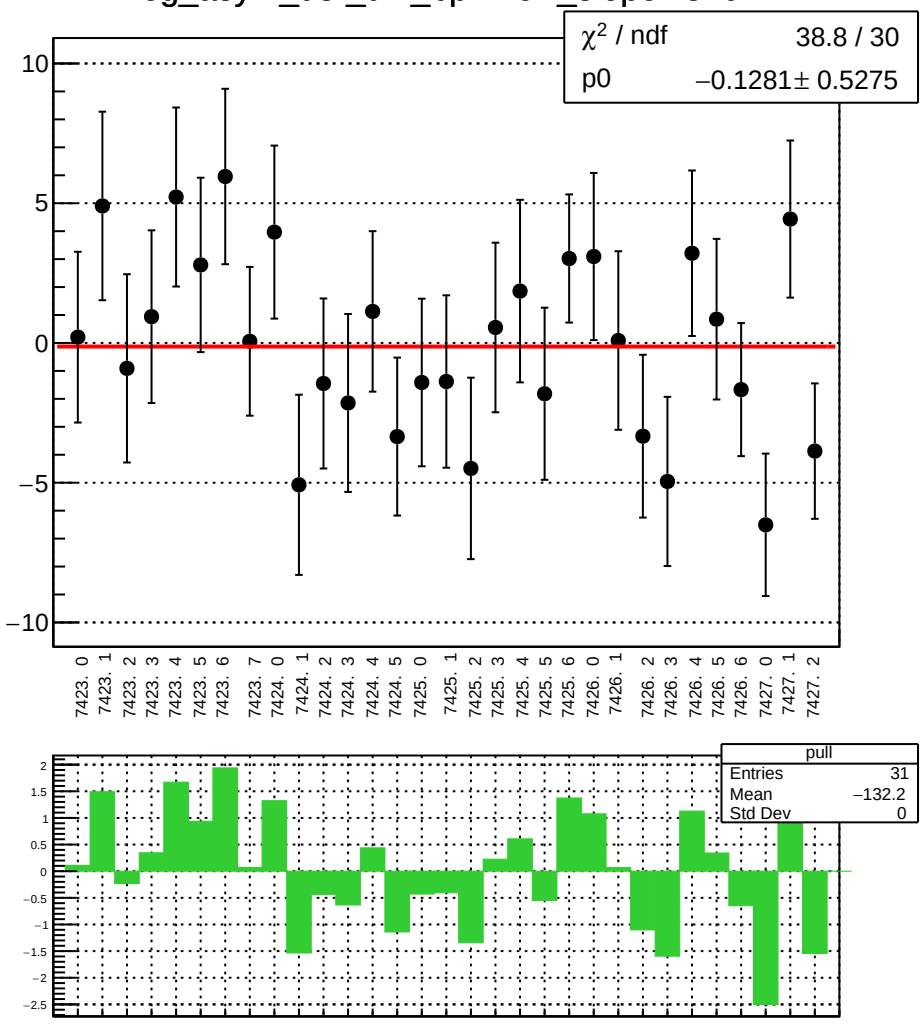

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 16.03 / 30
p0 0.03595 ± 0.0212
0.3
0.2
0.1
0
−0.1
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 10.73
Std Dev 6.373
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.0333
Std Dev 0.7183
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

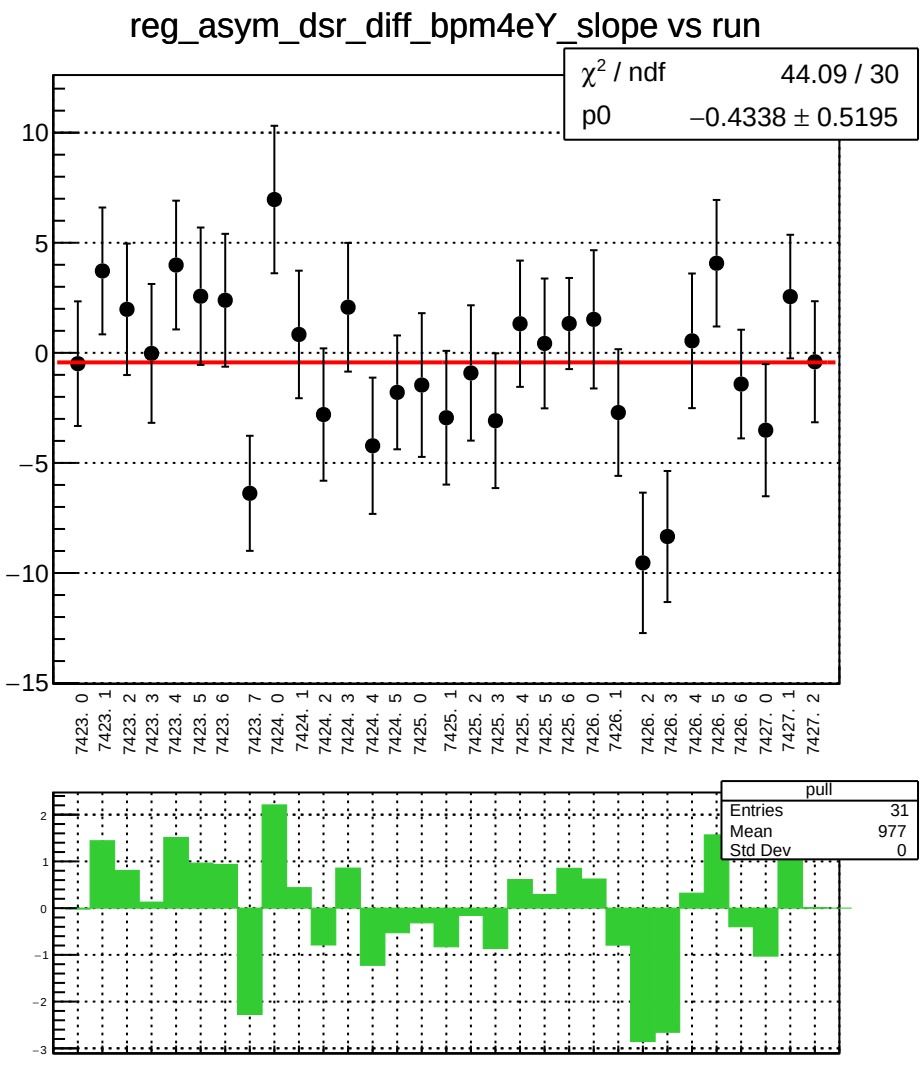

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 39 / 30
p0 0.01621 ± 0.5103
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −136.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

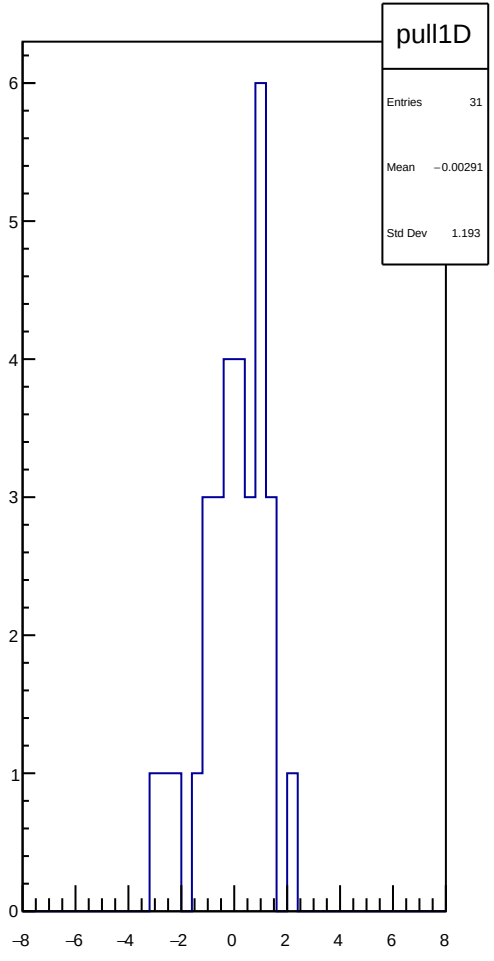

pull1D
Entries 31
Mean −0.02134
Std Dev 1.121
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

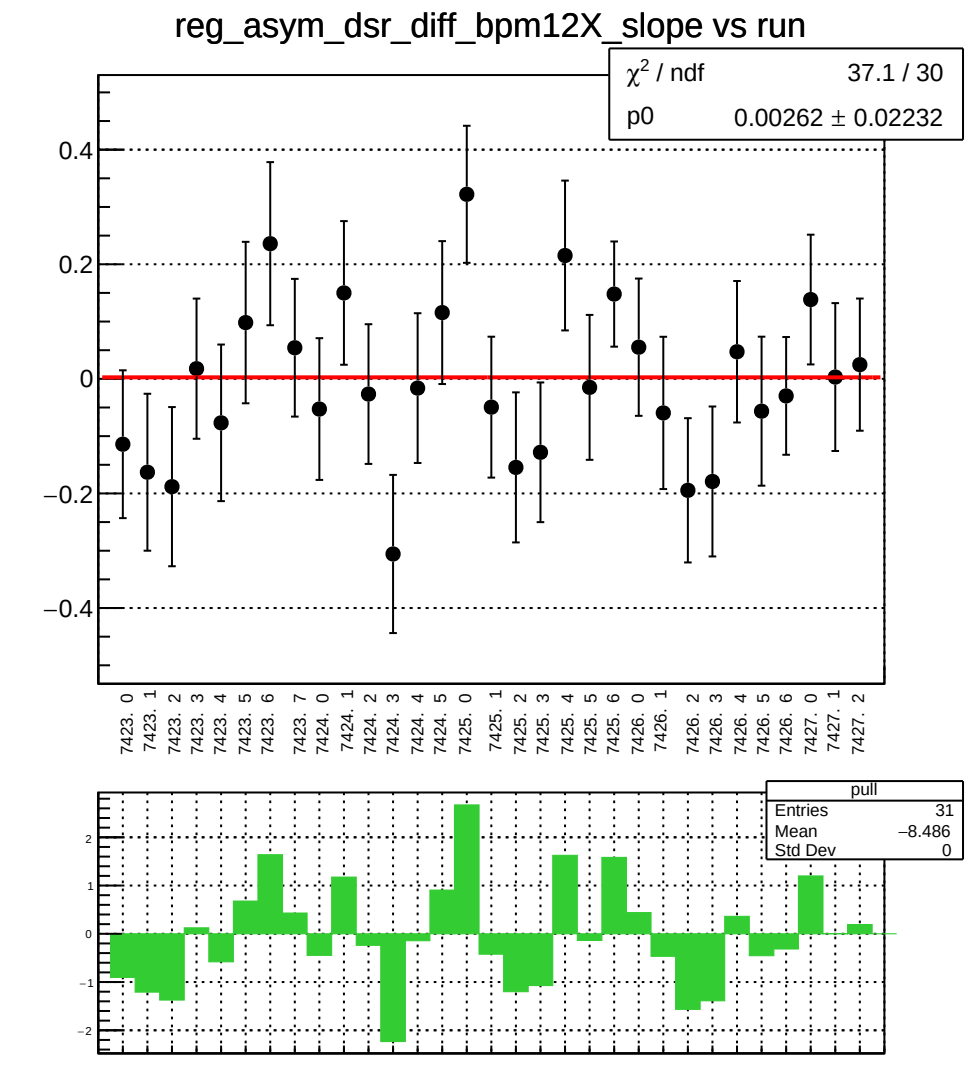

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 42.19 / 30
p0 0.2997 ± 0.4889
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 207.3
Std Dev 0
3
2
1
0
−1
−2

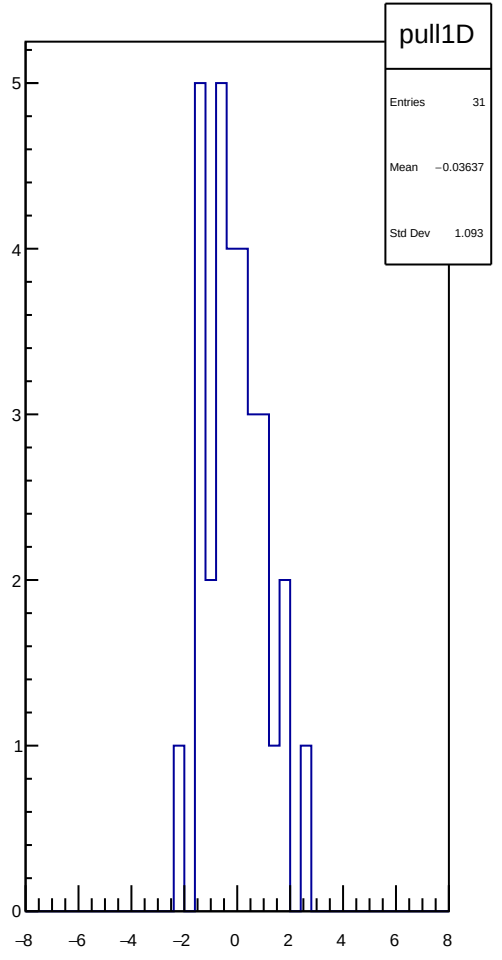

pull1D
Entries 31
Mean 0.01379
Std Dev 1.167
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

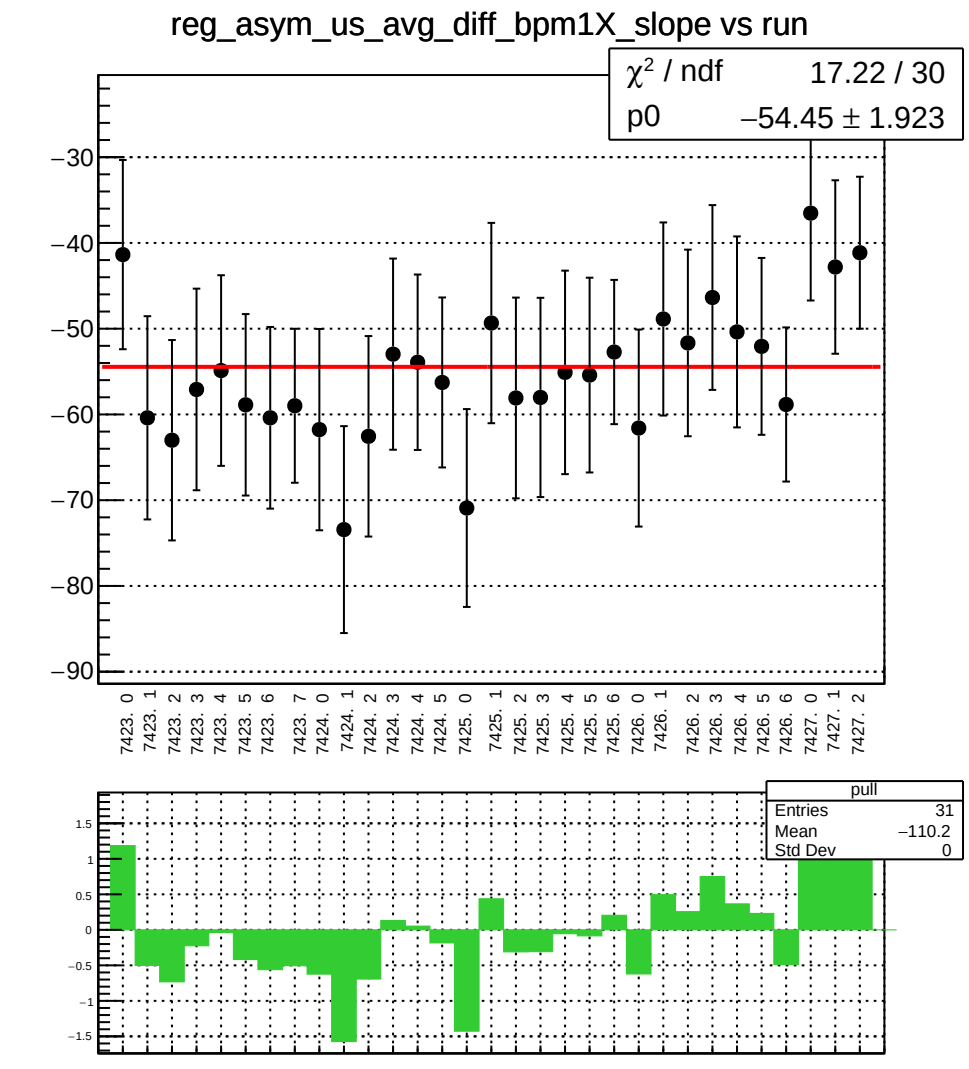

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 38.8 / 30
p0 −0.1281± 0.5275
pull
Entries 31
Mean −132.2
Std Dev 0
pull1D
Entries 31
Mean 0.02178
Std Dev 1.119

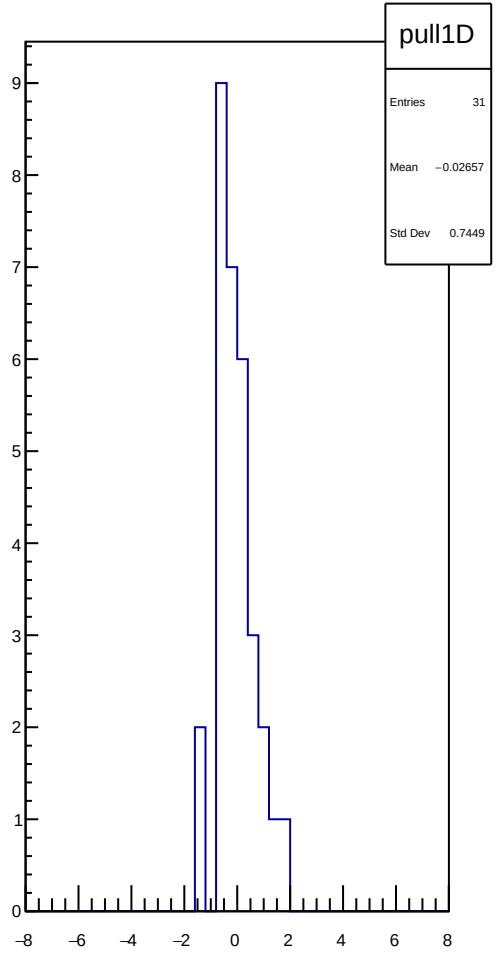

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 44.09 / 30
p0 −0.4338 ± 0.5195
pull
Entries 31
Mean 977
Std Dev 0

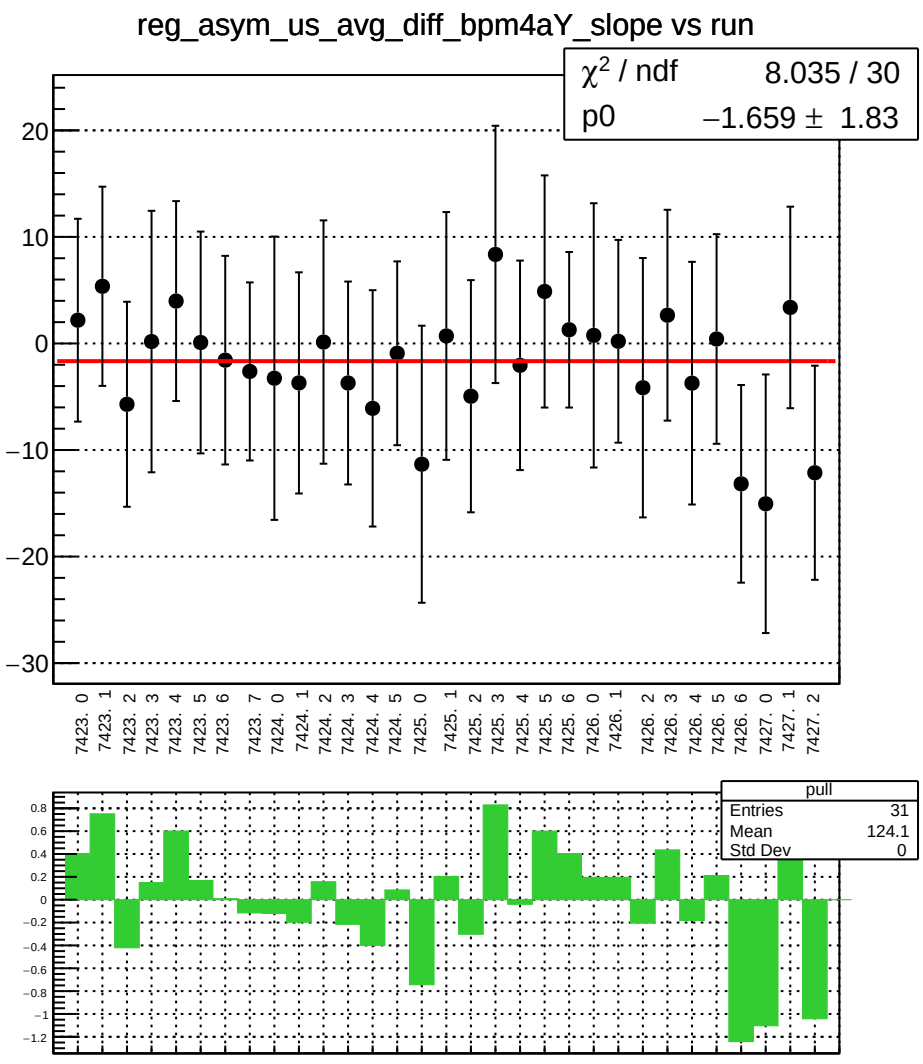

pull1D
Entries 31
Mean −0.00291
Std Dev 1.193

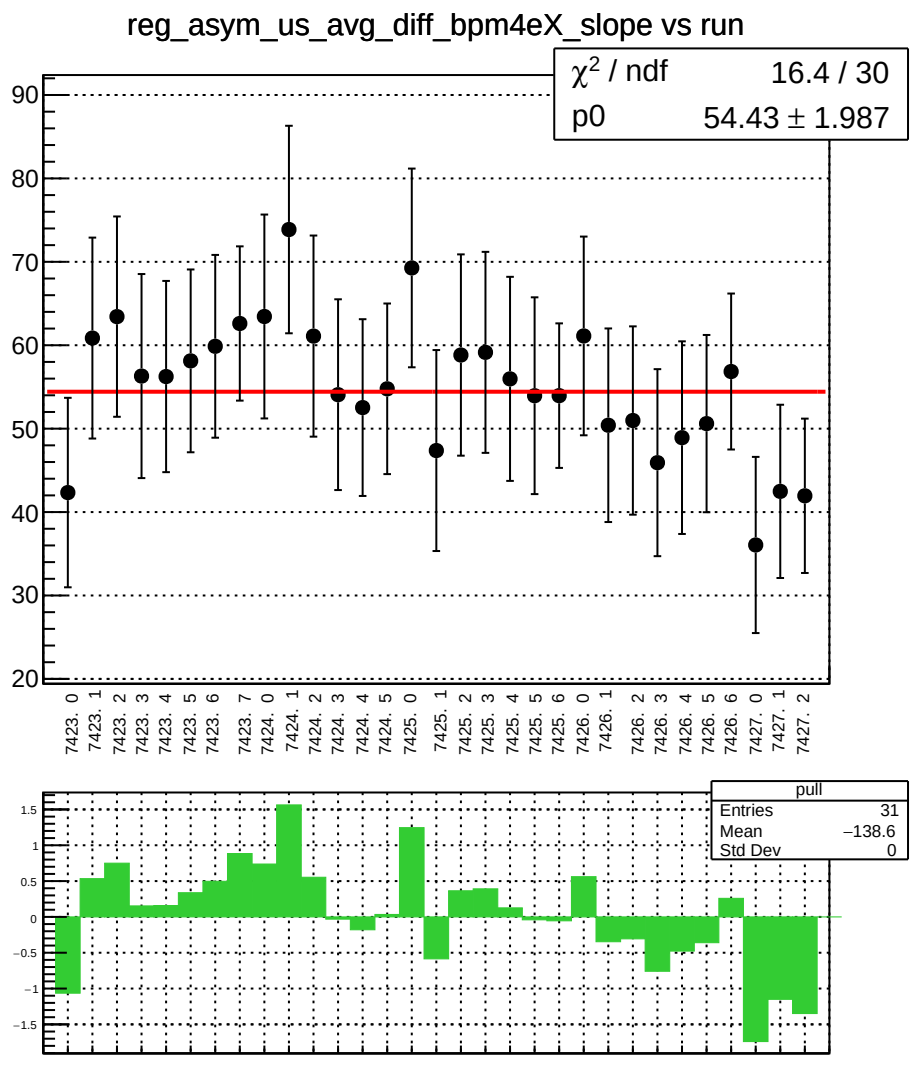

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 37.1 / 30
p0 0.00262 ± 0.02232
0.4
0.2
0
−0.2
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −8.486
Std Dev 0
2
1
0
−1
−2

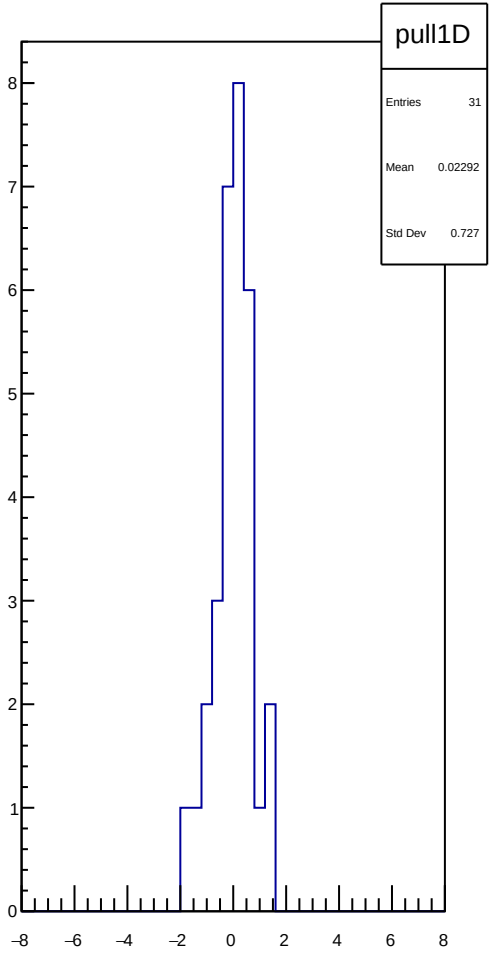

pull1D
Entries 31
Mean −0.03637
Std Dev 1.093
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

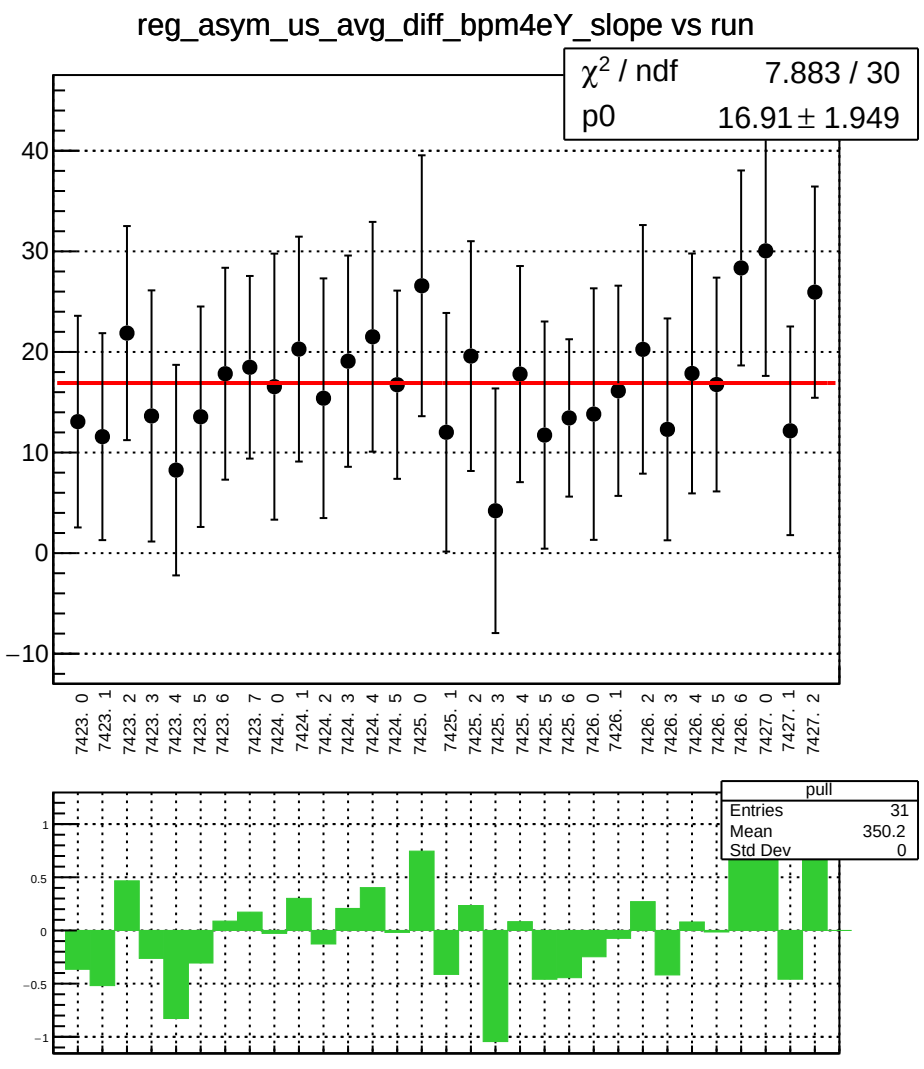

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 17.22 / 30
p0 −54.45 ± 1.923
pull
Entries 31
Mean −110.2
Std Dev 0

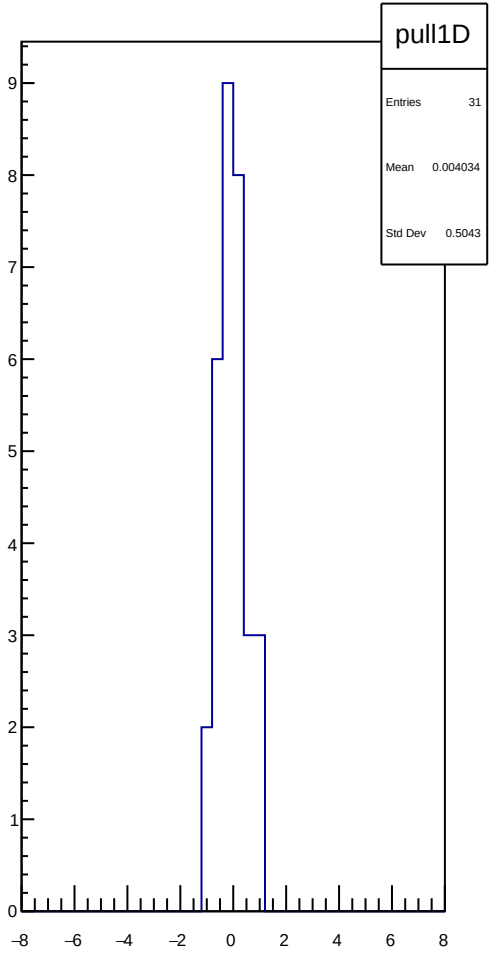

pull1D
Entries 31
Mean −0.02657
Std Dev 0.7449

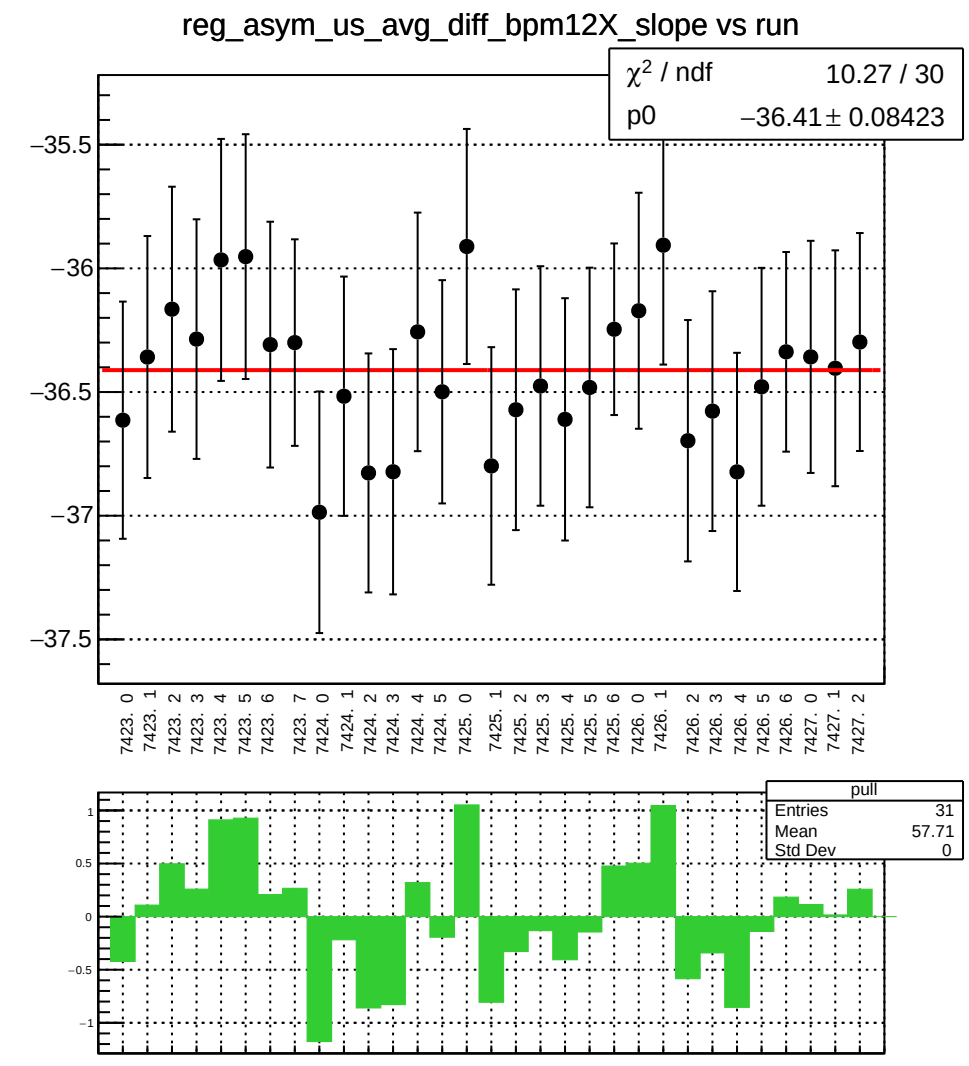

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.035 / 30
p0 −1.659 ± 1.83
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 124.1
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 31
Mean −0.01275
Std Dev 0.509
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

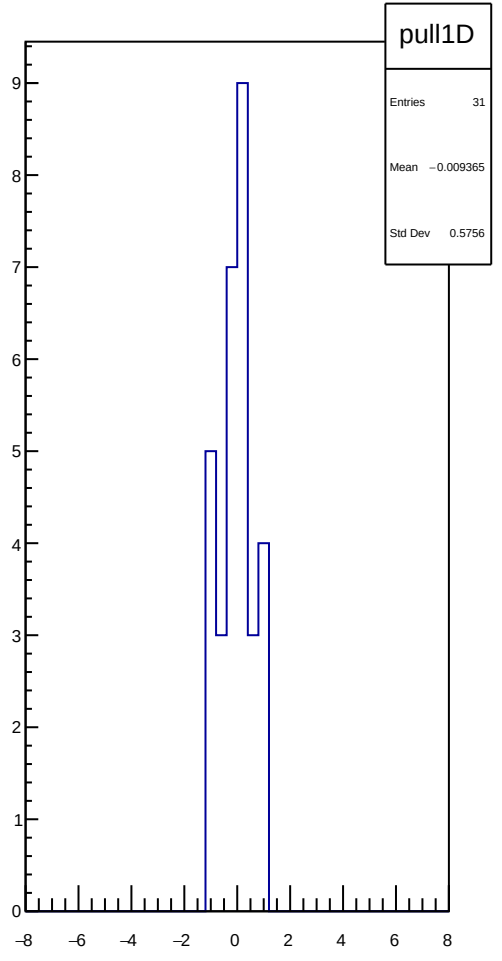

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.4 / 30
p0 54.43 ± 1.987
pull
Entries 31
Mean −138.6
Std Dev 0

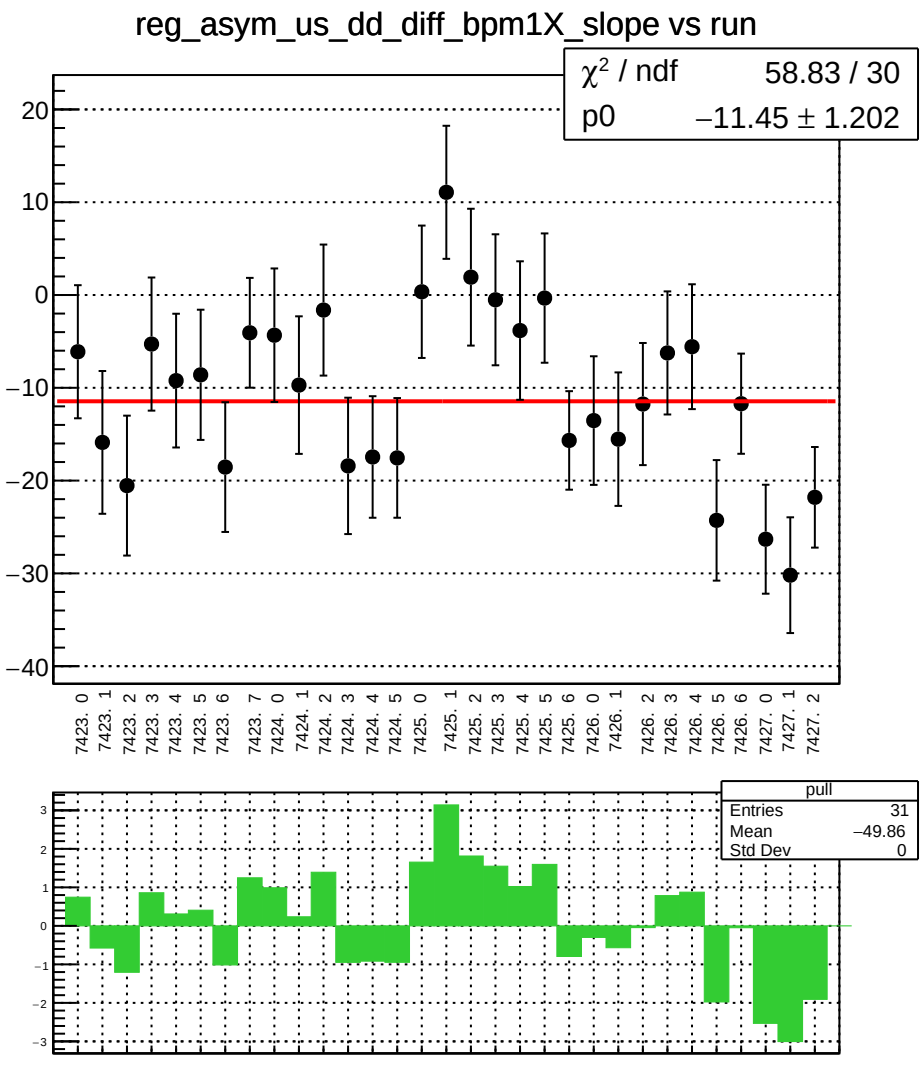

pull1D
Entries 31
Mean 0.02292
Std Dev 0.727

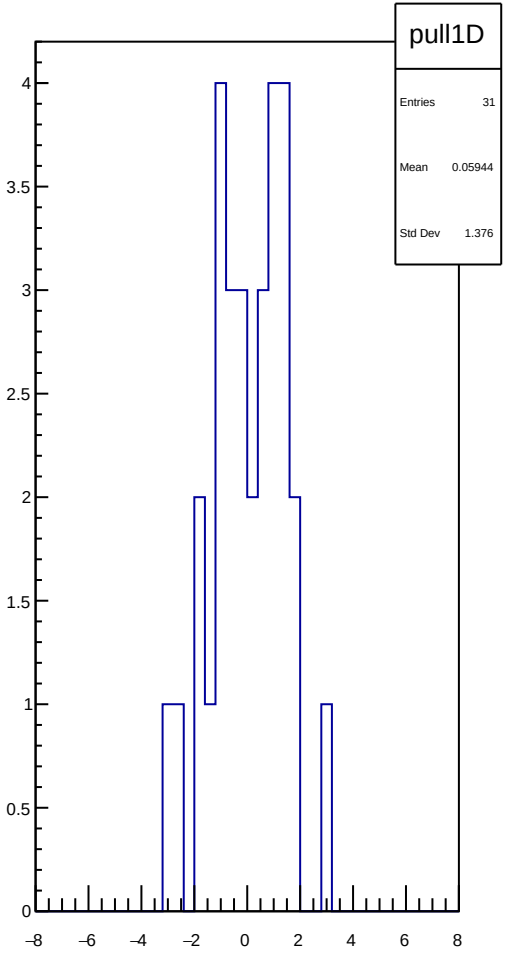

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.883 / 30
p0 16.91 ± 1.949
40
30
20
10
0
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 350.2
Std Dev 0
1
0.5
0
−0.5
−1

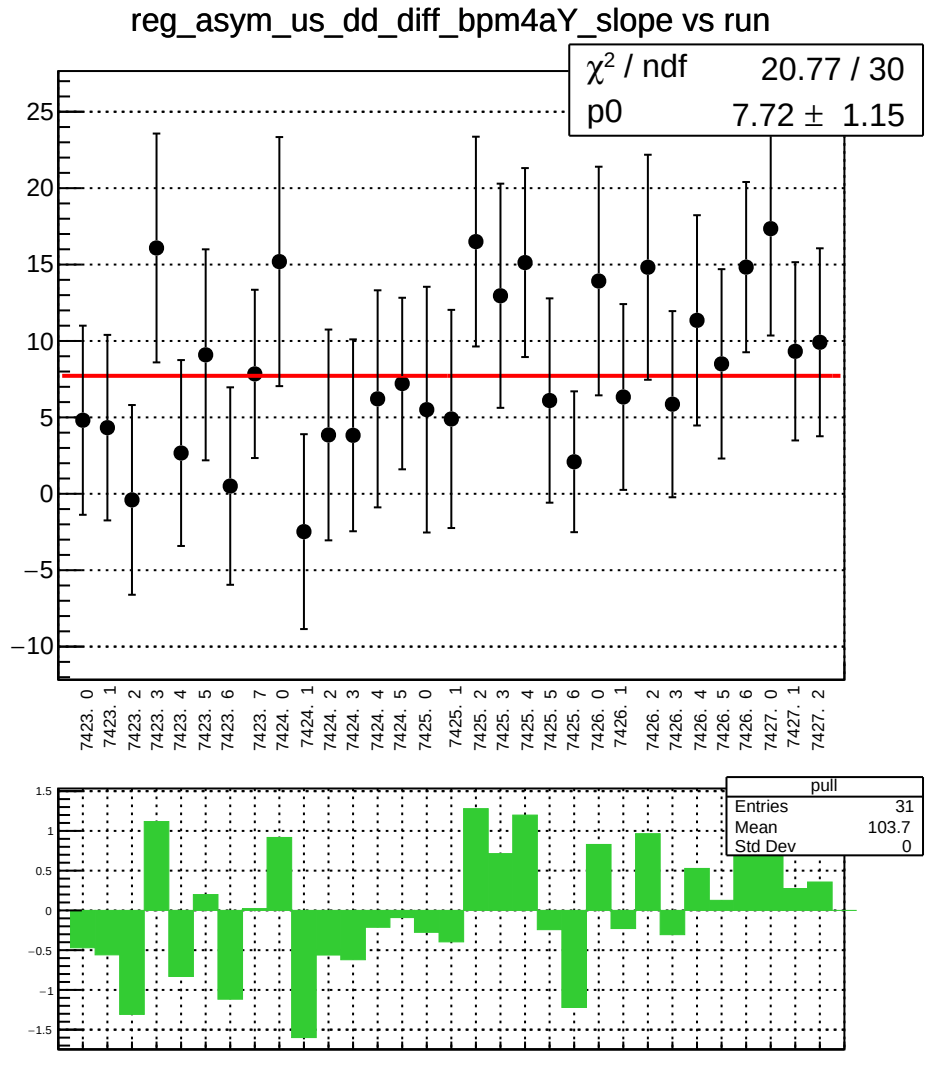

pull1D
Entries 31
Mean 0.004034
Std Dev 0.5043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

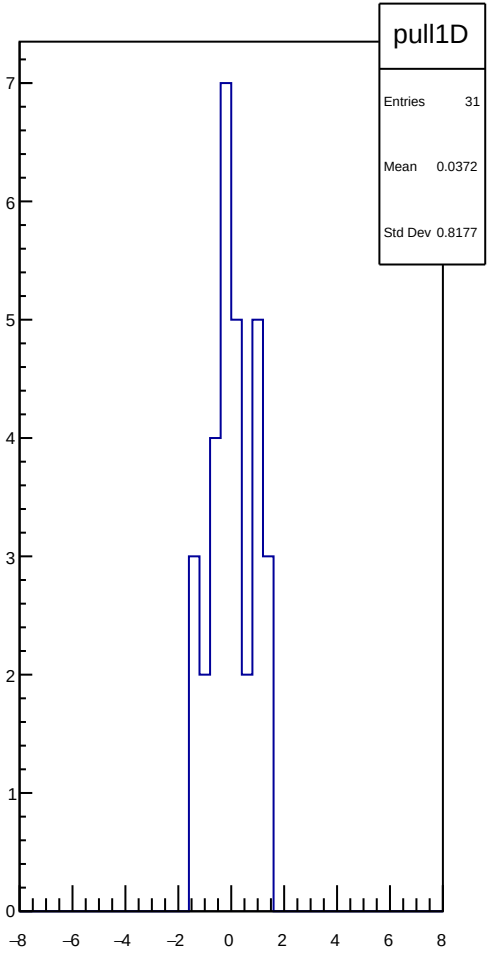

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 10.27 / 30
p0 −36.41 ± 0.08423
−35.5
−36
−36.5
−37
−37.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 57.71
Std Dev 0
1
0.5
0
−0.5
−1

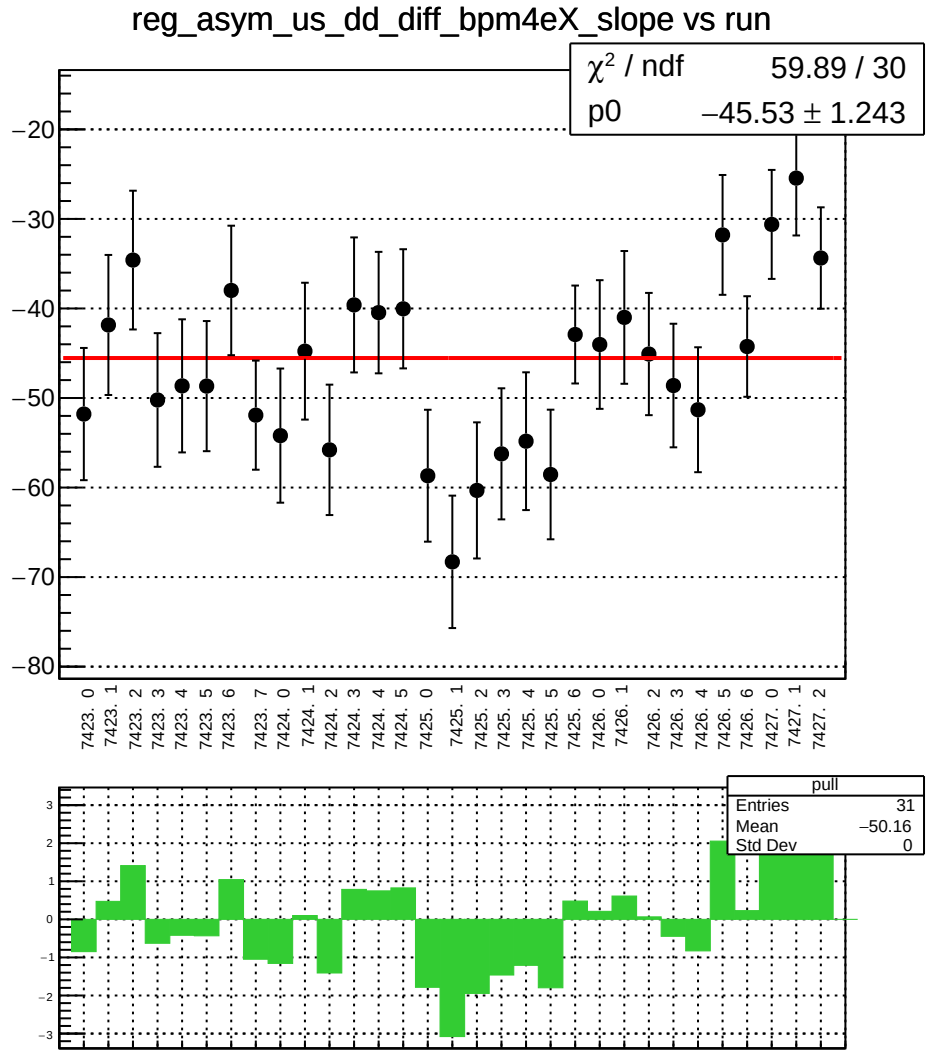

pull1D
Entries 31
Mean −0.009365
Std Dev 0.5756
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

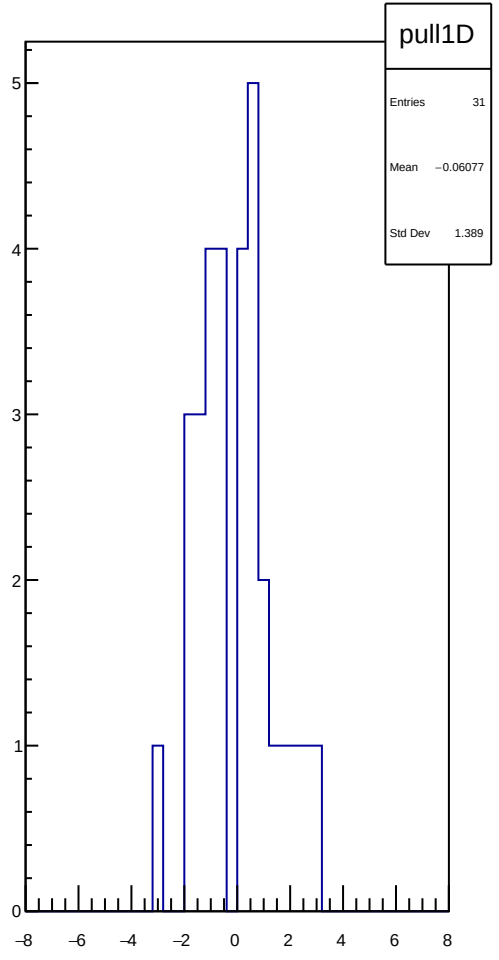

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 58.83 / 30
p0 −11.45 ± 1.202
pull
Entries 31
Mean −49.86
Std Dev 0

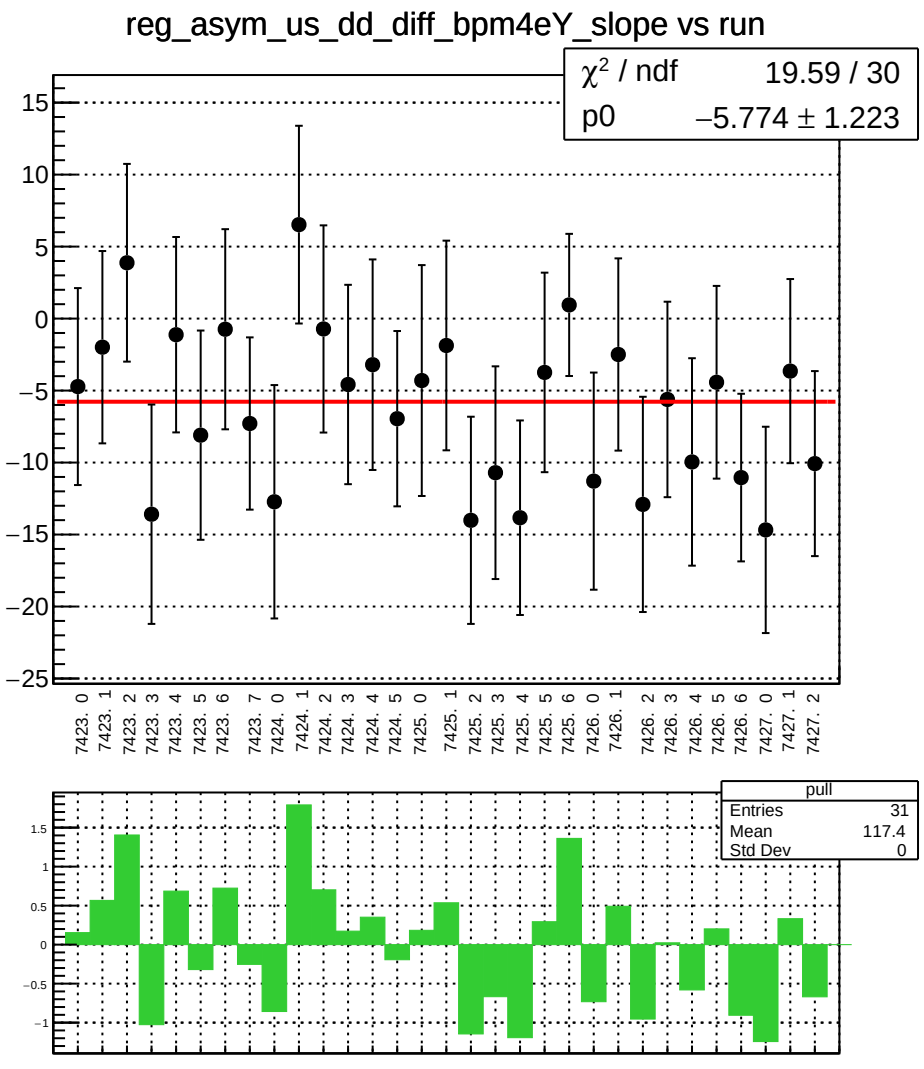

pull1D
Entries 31
Mean 0.05944
Std Dev 1.376

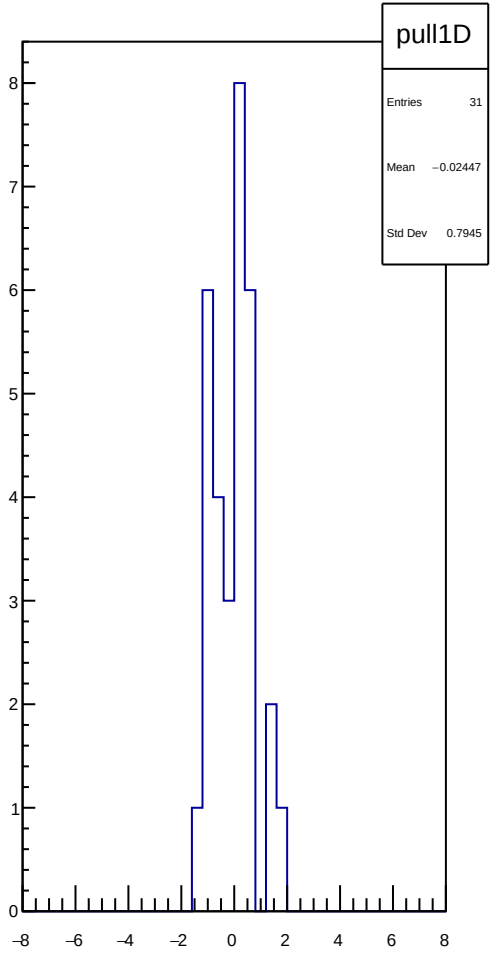

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.77 / 30
p0 7.72 ± 1.15
pull
Entries 31
Mean 103.7
Std Dev 0

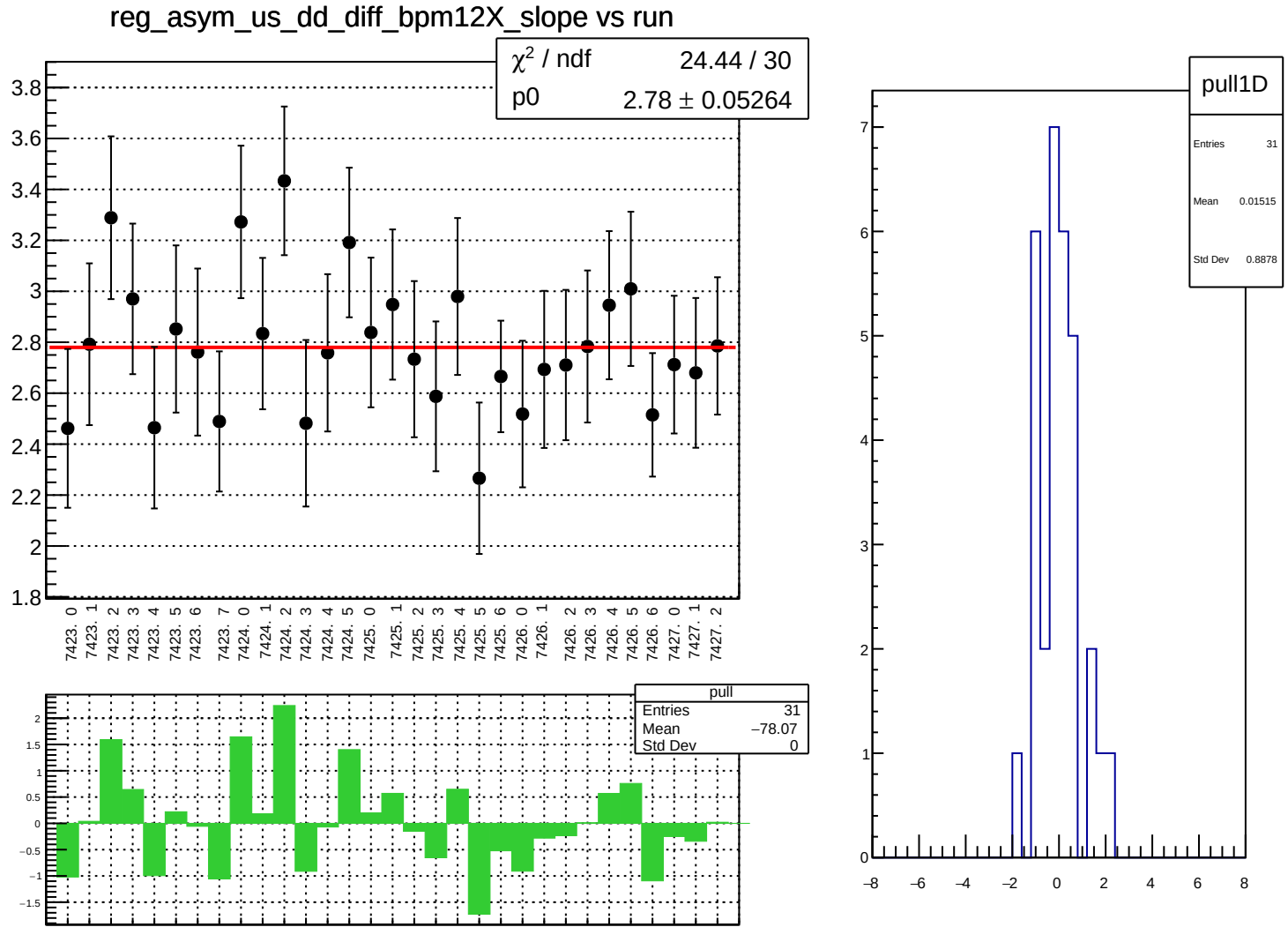

pull1D
Entries 31
Mean 0.0372
Std Dev 0.8177

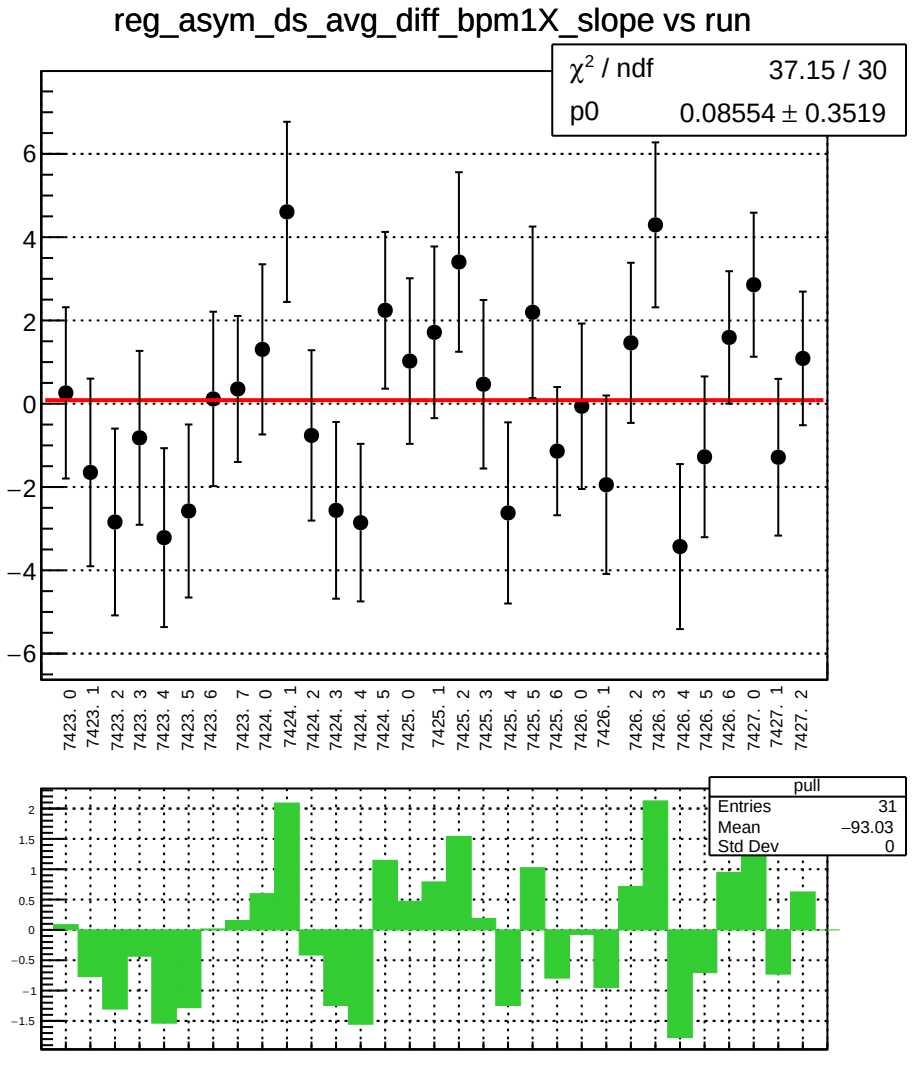

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.89 / 30
p0 −45.53 ± 1.243
−20
−30
−40
−50
−60
−70
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −50.16
Std Dev 0
3
2
1
0
−1
−2
−3

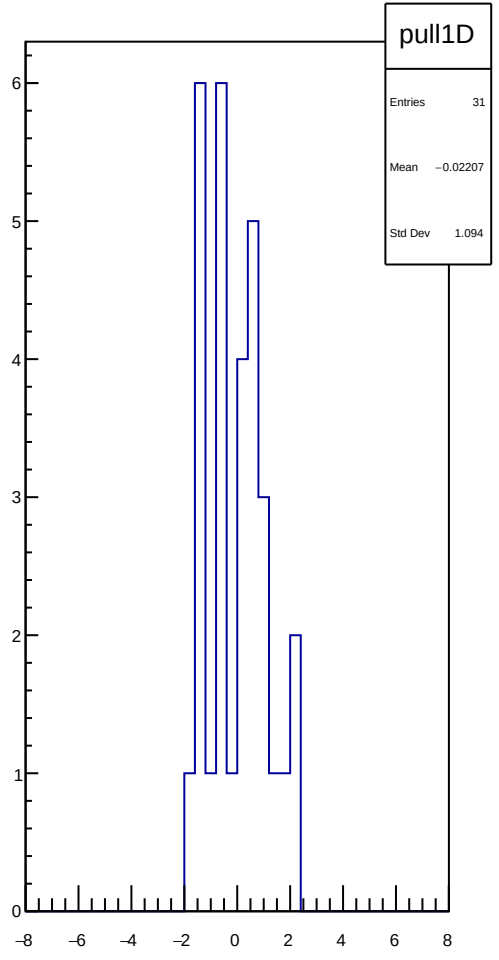

pull1D
Entries 31
Mean −0.06077
Std Dev 1.389
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

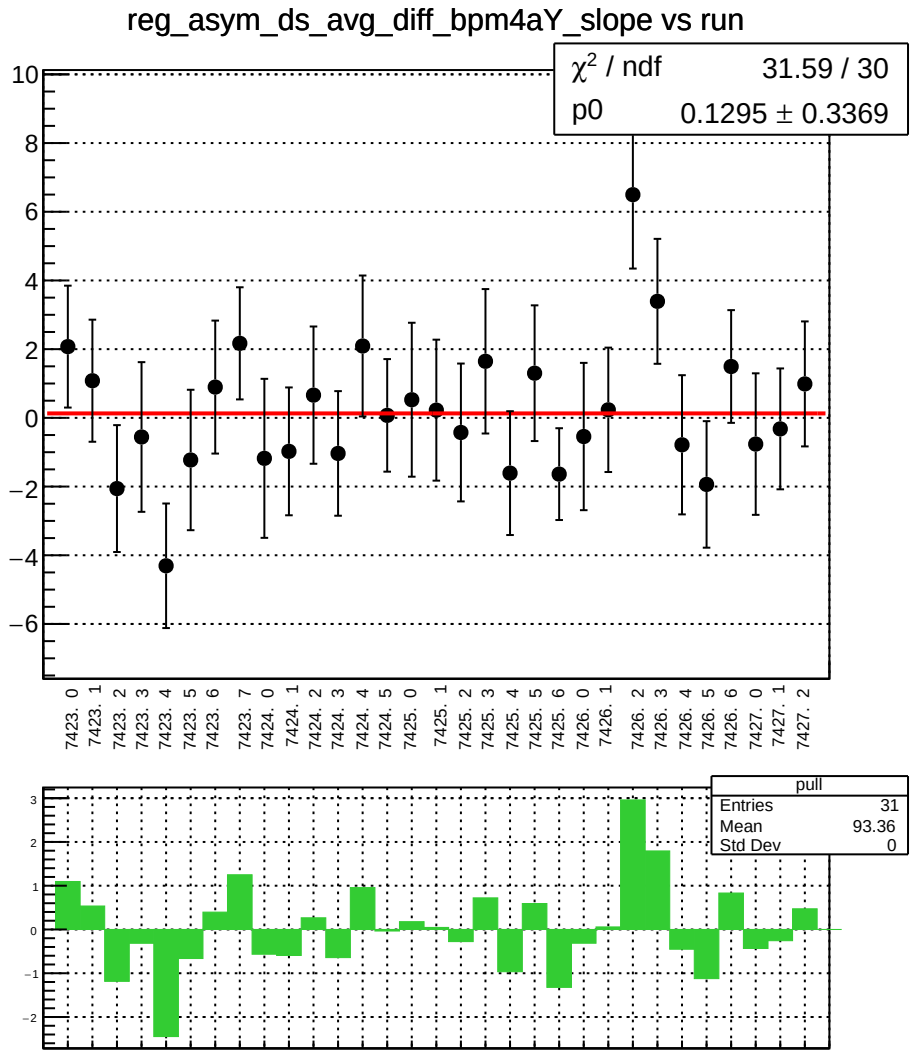

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.59 / 30
p0 −5.774 ± 1.223
pull
Entries 31
Mean 117.4
Std Dev 0

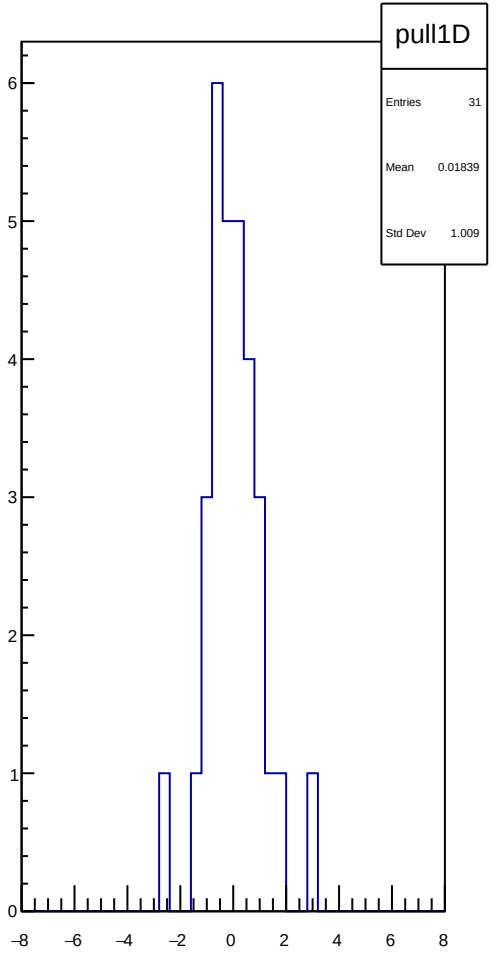

pull1D
Entries 31
Mean −0.02447
Std Dev 0.7945

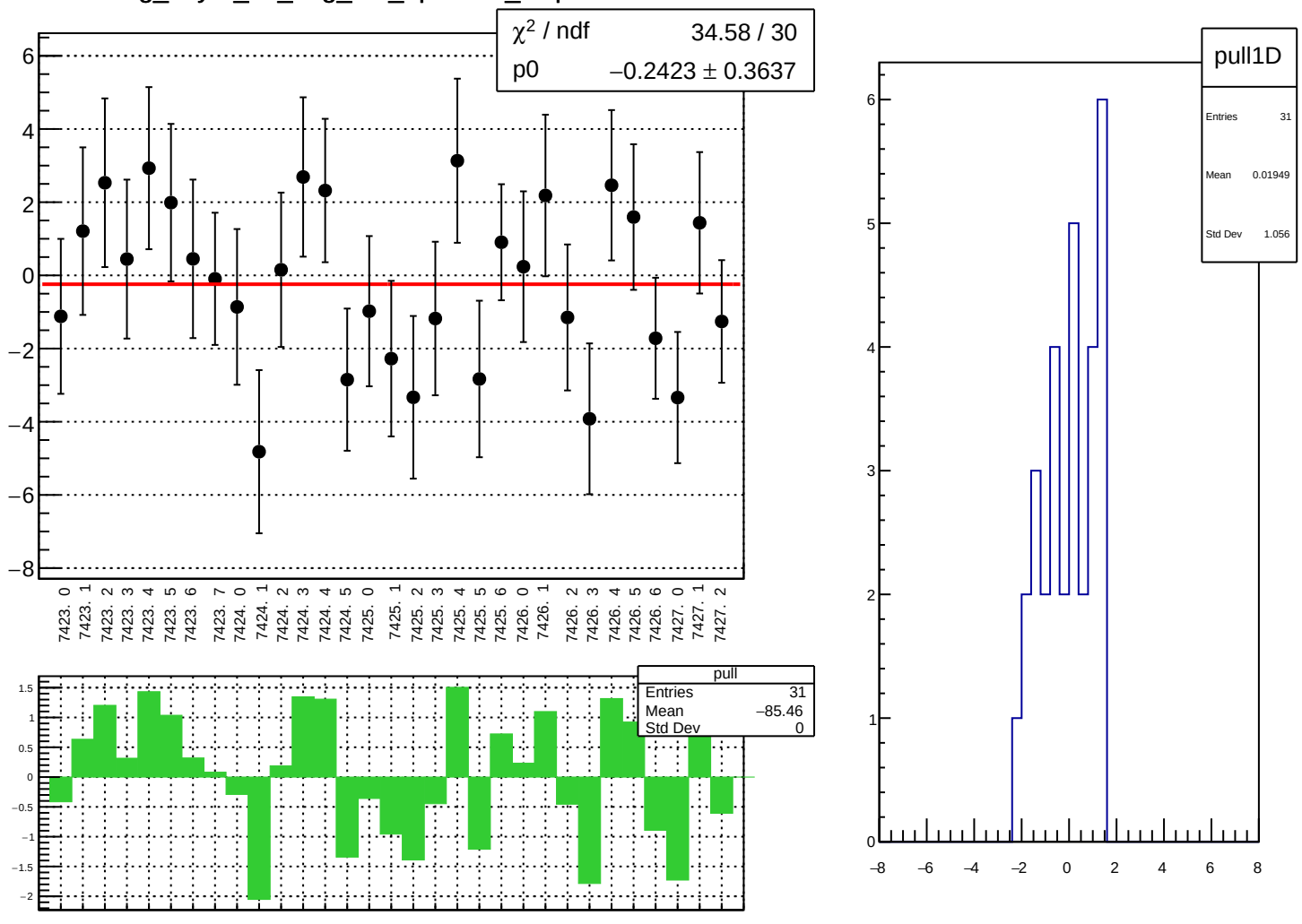

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 24.44 / 30
p0 2.78 ± 0.05264
pull
Entries 31
Mean −78.07
Std Dev 0
pull1D
Entries 31
Mean 0.01515
Std Dev 0.8878

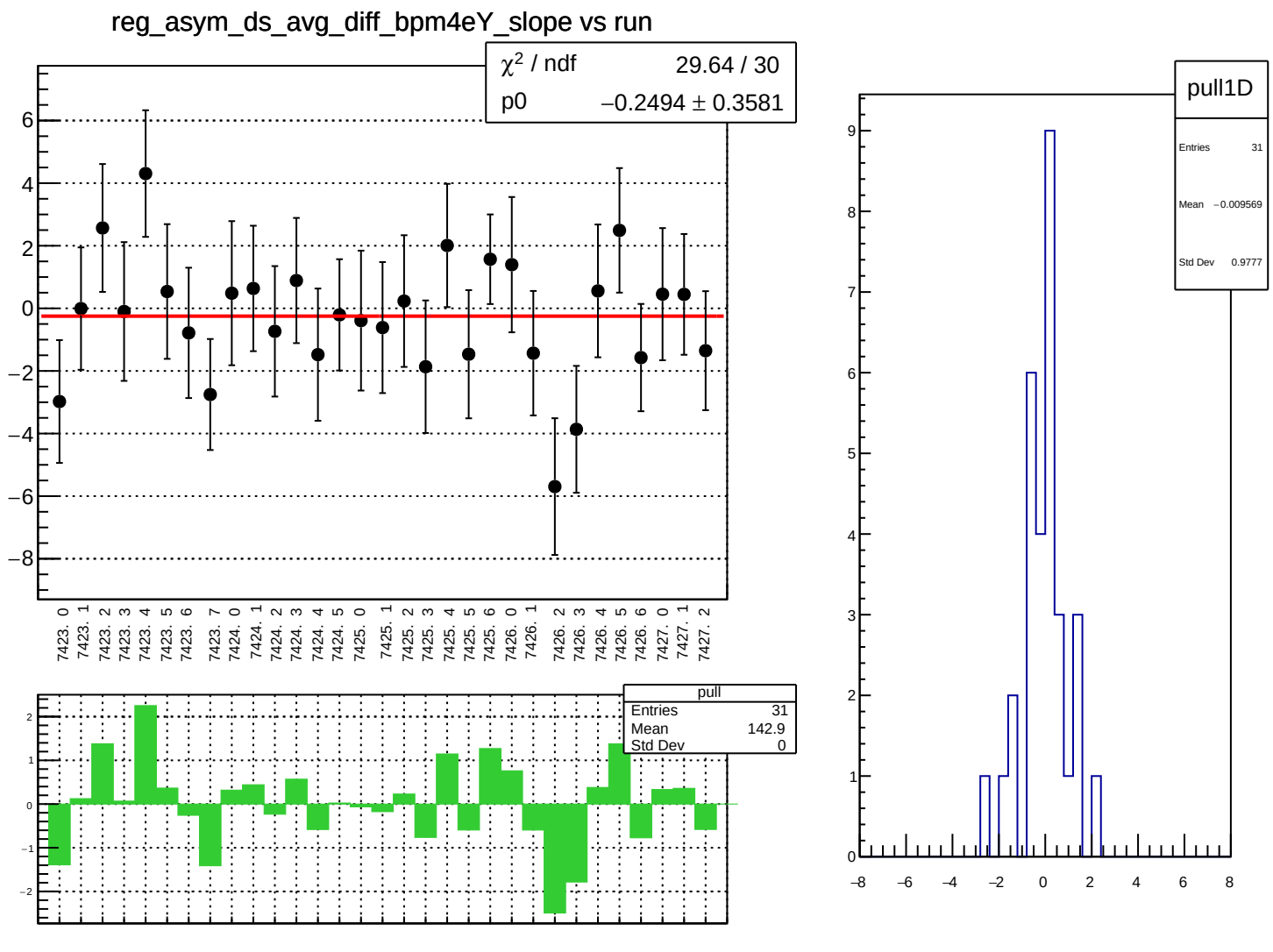

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 37.15 / 30
p0 0.08554 ± 0.3519
pull
Entries 31
Mean −93.03
Std Dev 0

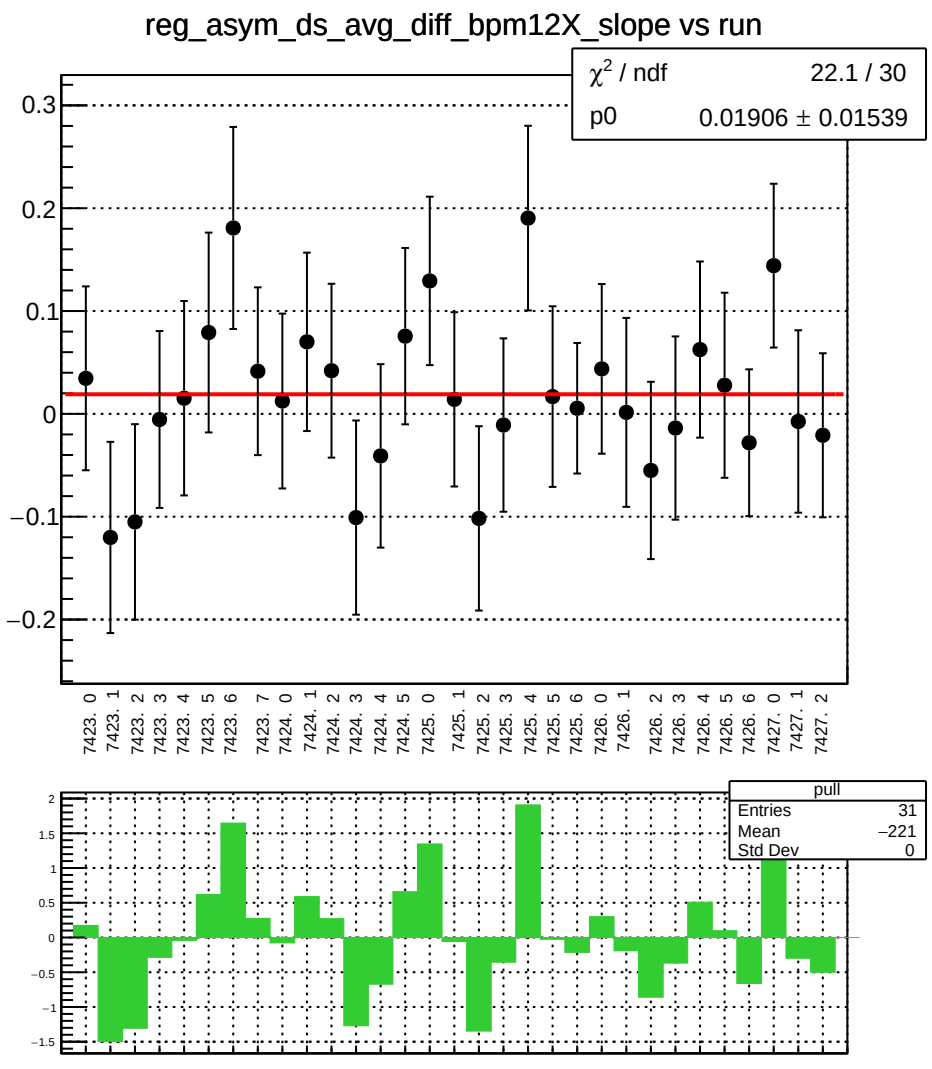

pull1D
Entries 31
Mean −0.02207
Std Dev 1.094

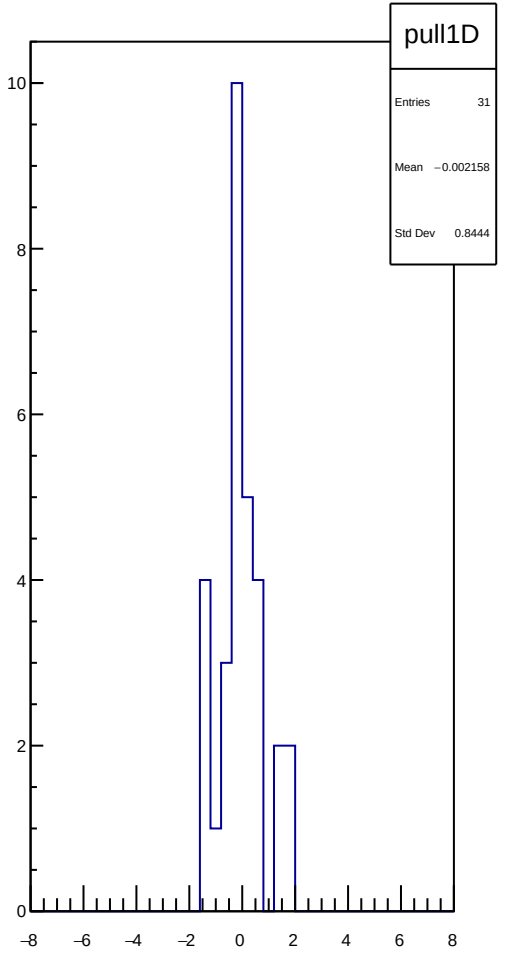

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.59 / 30
p0 0.1295 ± 0.3369
pull
Entries 31
Mean 93.36
Std Dev 0

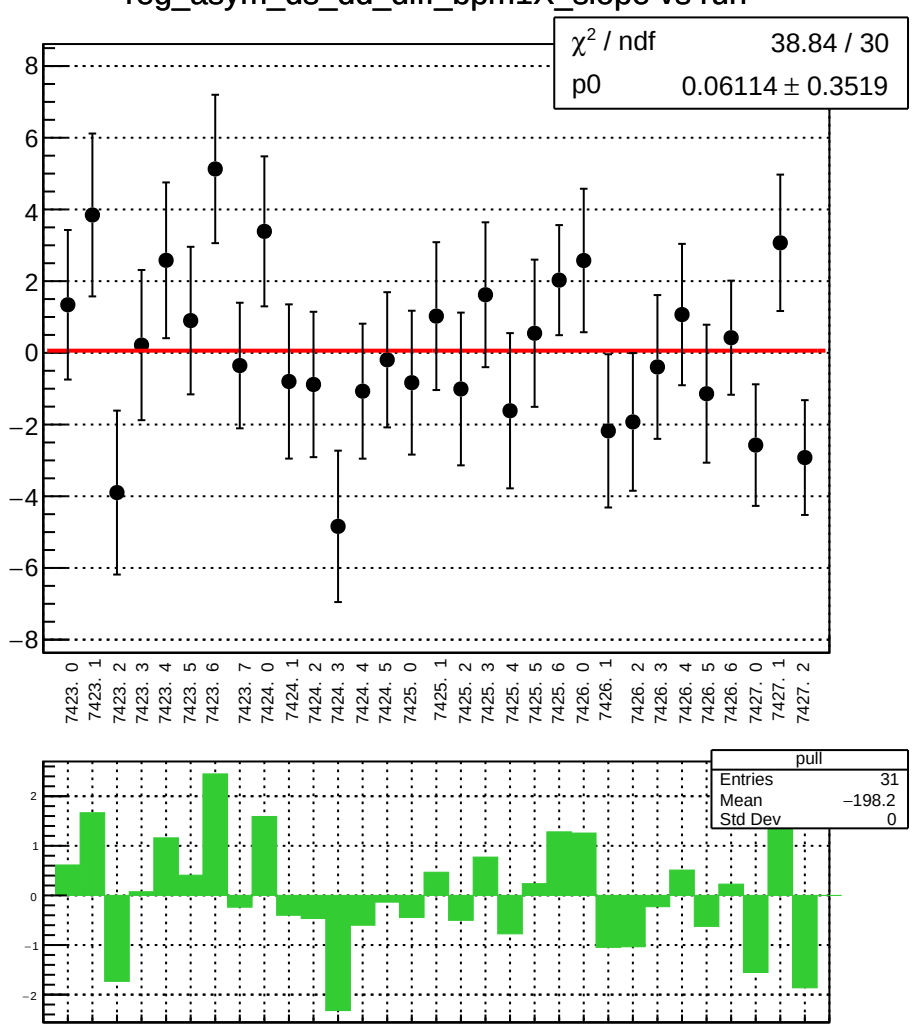

pull1D
Entries 31
Mean 0.01839
Std Dev 1.009

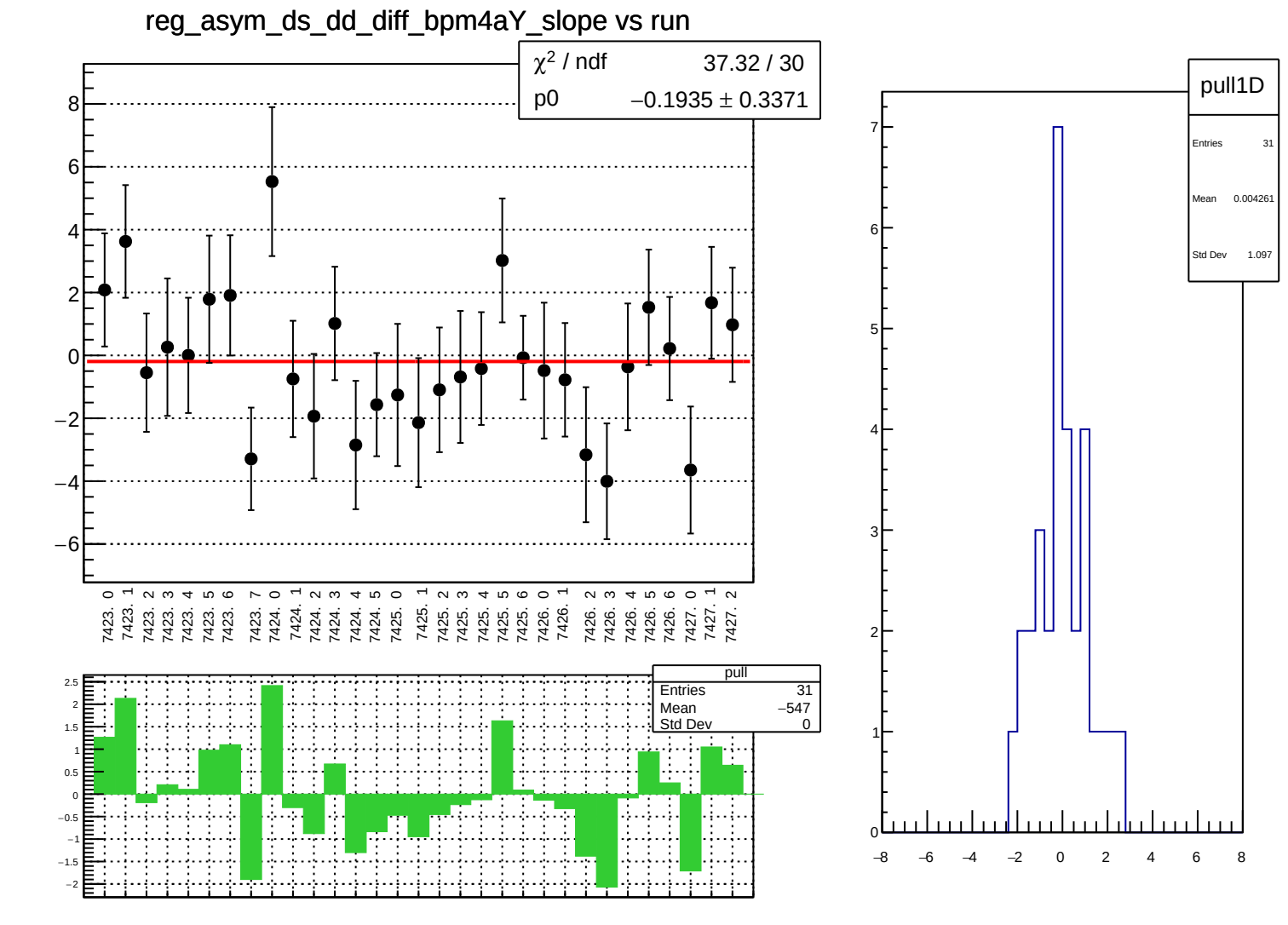

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.58 / 30
p0 −0.2423 ± 0.3637
pull
Entries 31
Mean −85.46
Std Dev 0
pull1D
Entries 31
Mean 0.01949
Std Dev 1.056

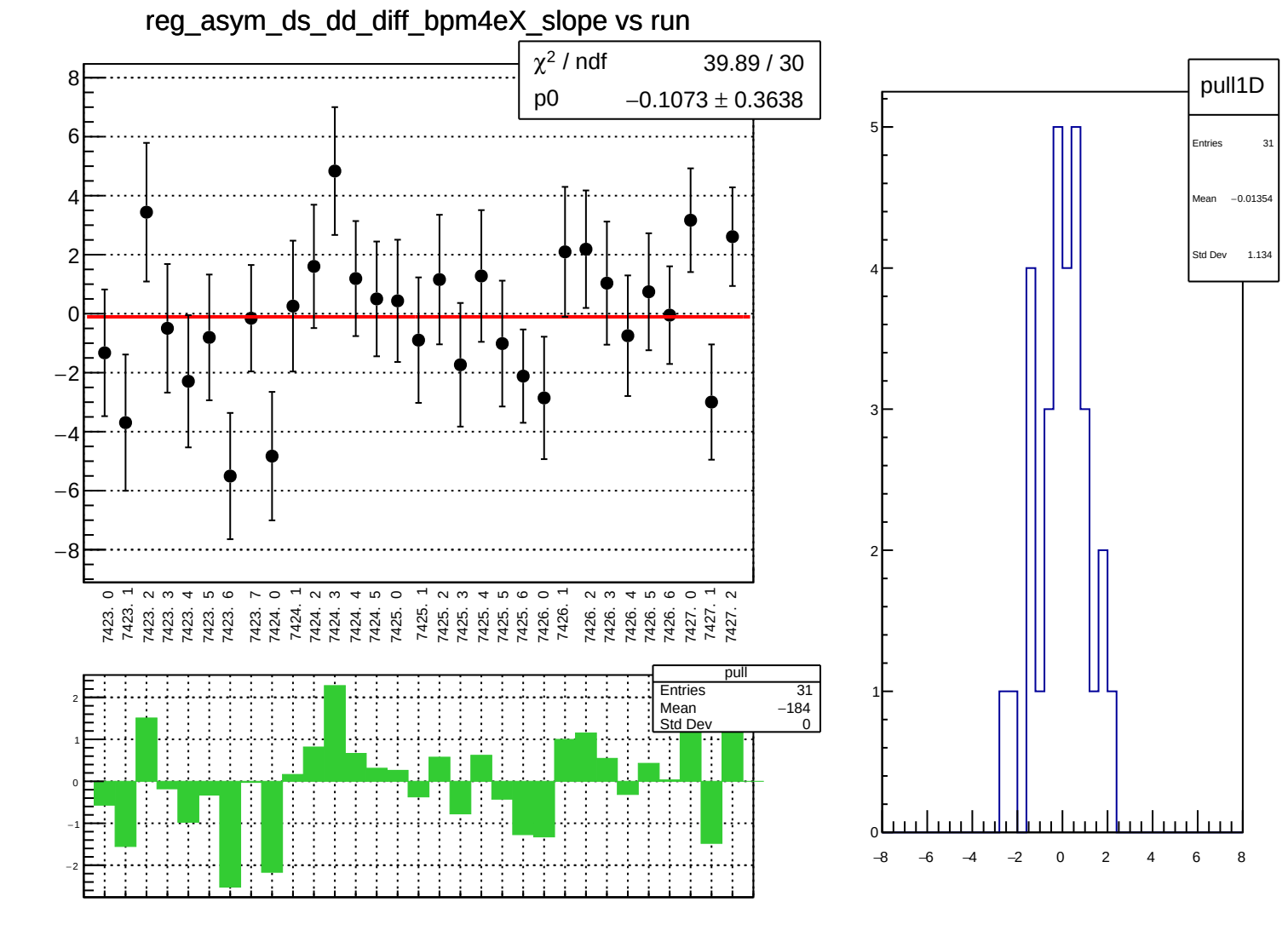

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.64 / 30
p0 −0.2494 ± 0.3581
pull
Entries 31
Mean 142.9
Std Dev 0
pull1D
Entries 31
Mean −0.009569
Std Dev 0.9777

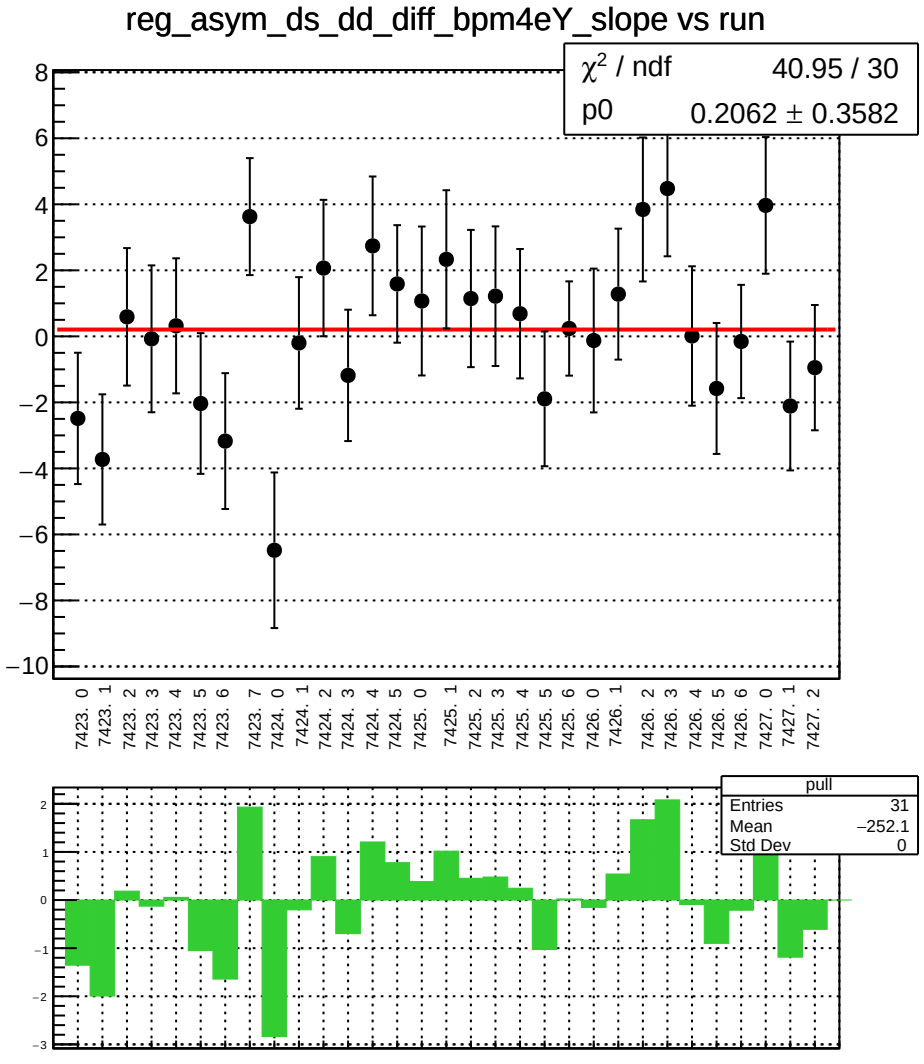

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 22.1 / 30
p0 0.01906 ± 0.01539
0.3
0.2
0.1
0
−0.1
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −221
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

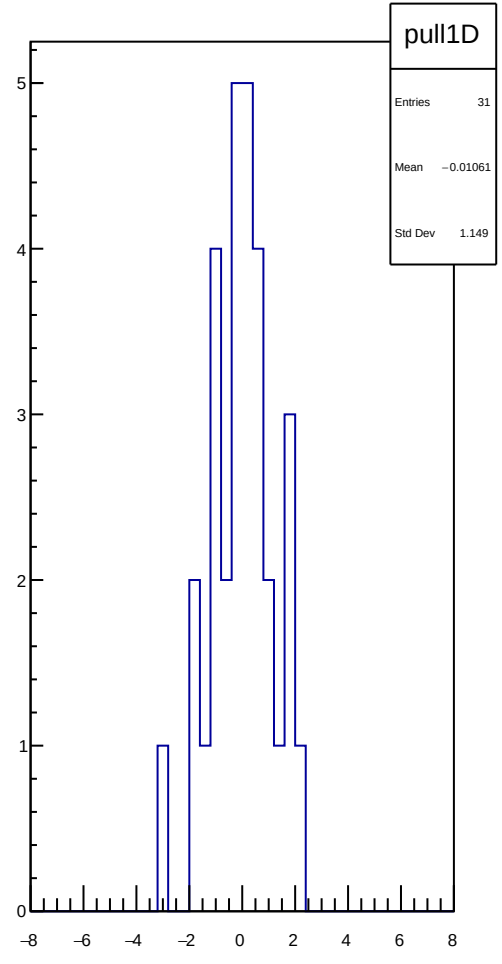

pull1D
Entries 31
Mean −0.002158
Std Dev 0.8444
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

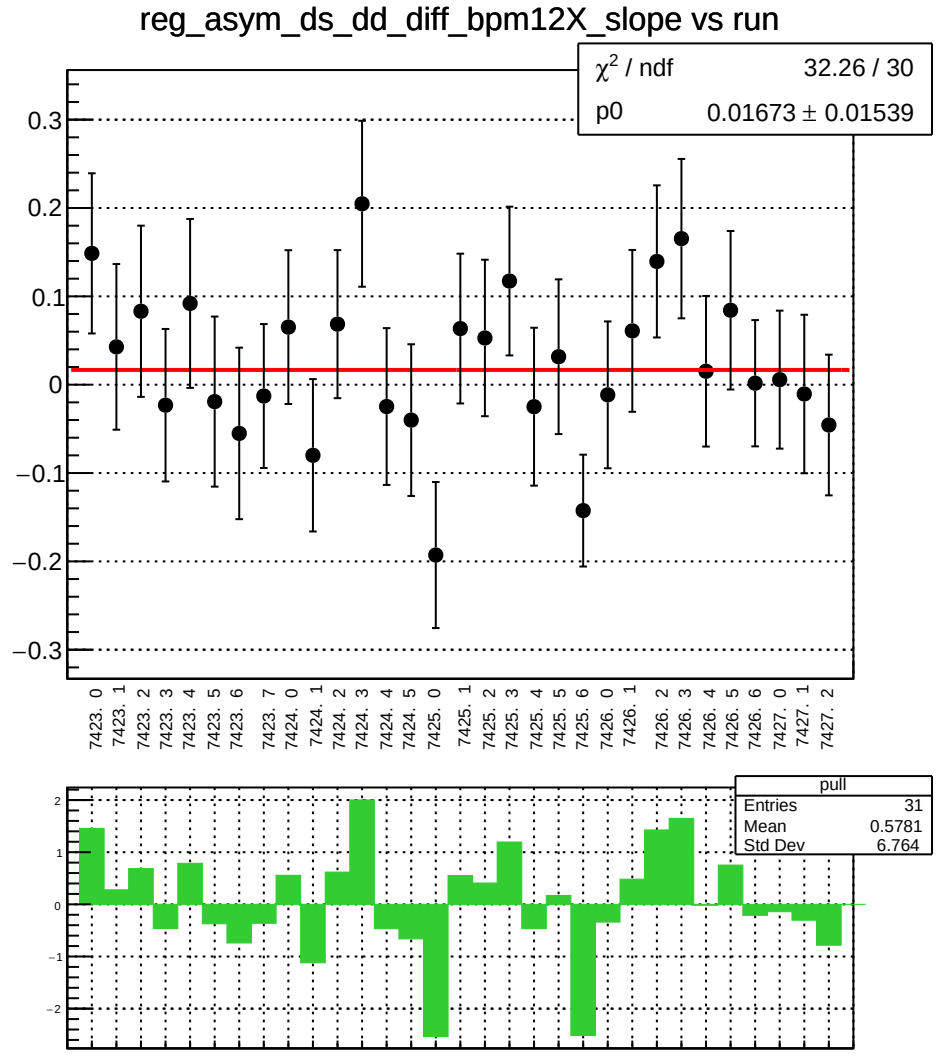

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 38.84 / 30
p0 0.06114 ± 0.3519
pull
Entries 31
Mean −198.2
Std Dev 0
pull1D
Entries 31
Mean 0.01081
Std Dev 1.119

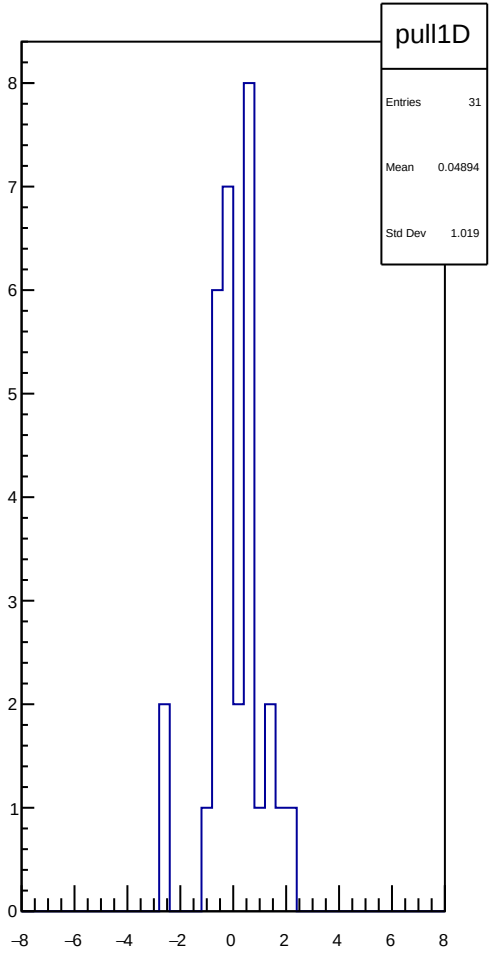

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.32 / 30
p0 −0.1935 ± 0.3371
8
6
4
2
0
−2
−4
−6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −547
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.004261
Std Dev 1.097
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

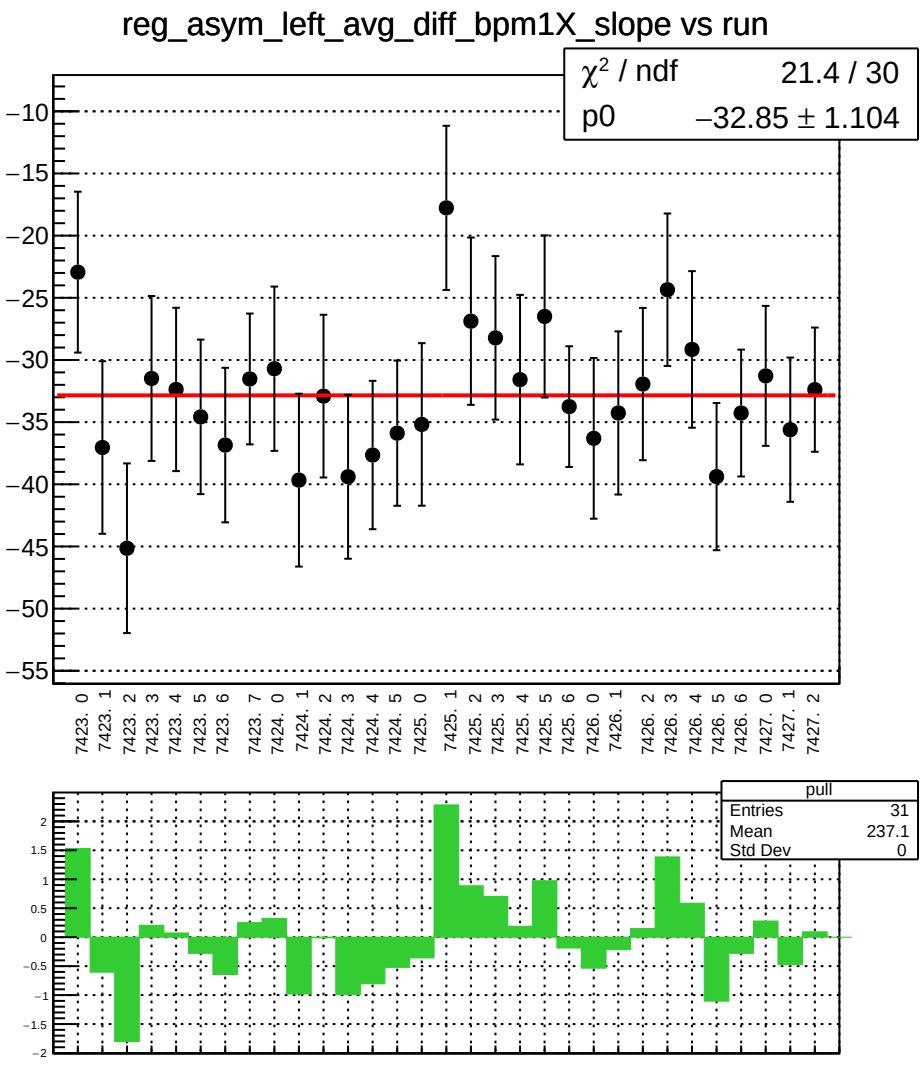

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.89 / 30
p0 −0.1073 ± 0.3638
pull
Entries 31
Mean −184
Std Dev 0
pull1D
Entries 31
Mean −0.01354
Std Dev 1.134

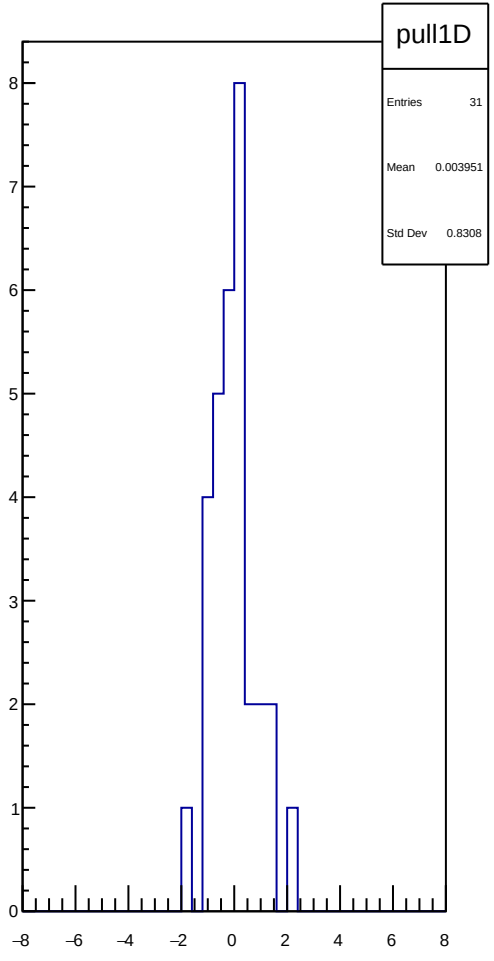

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.95 / 30
p0 0.2062 ± 0.3582
pull
Entries 31
Mean −252.1
Std Dev 0

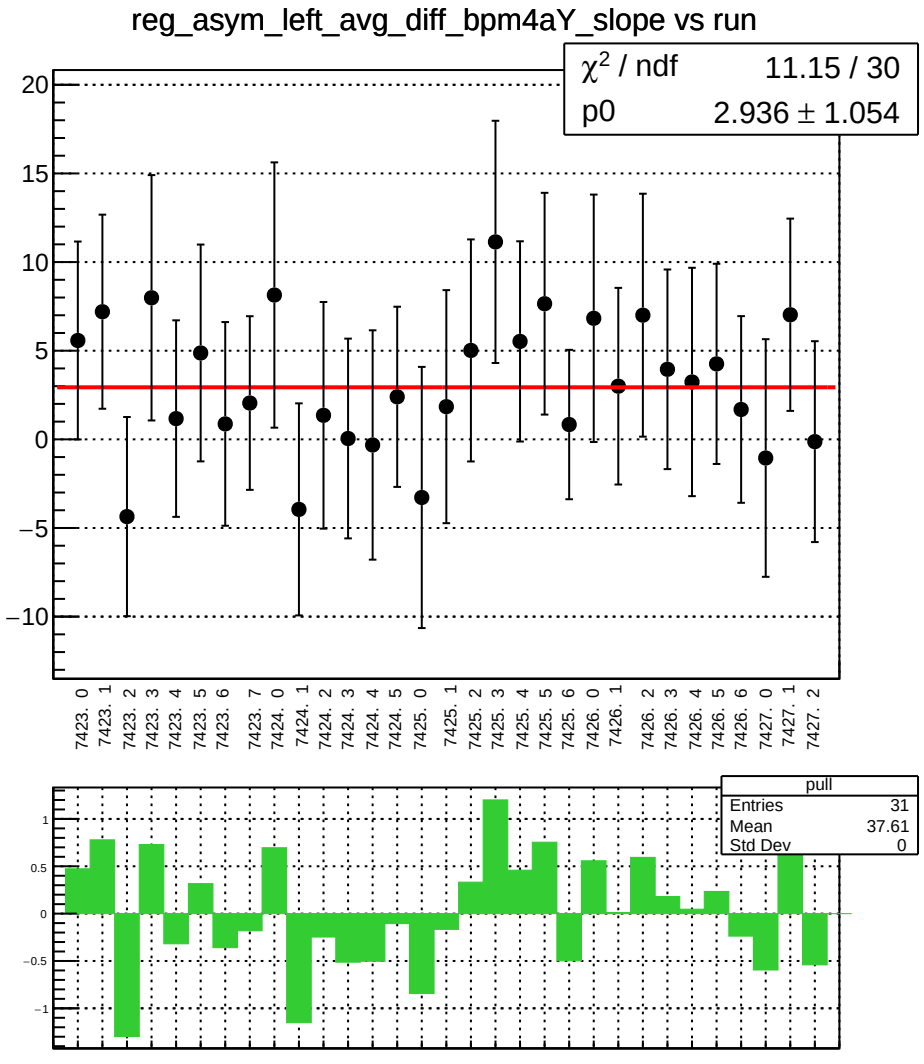

pull1D
Entries 31
Mean −0.01061
Std Dev 1.149

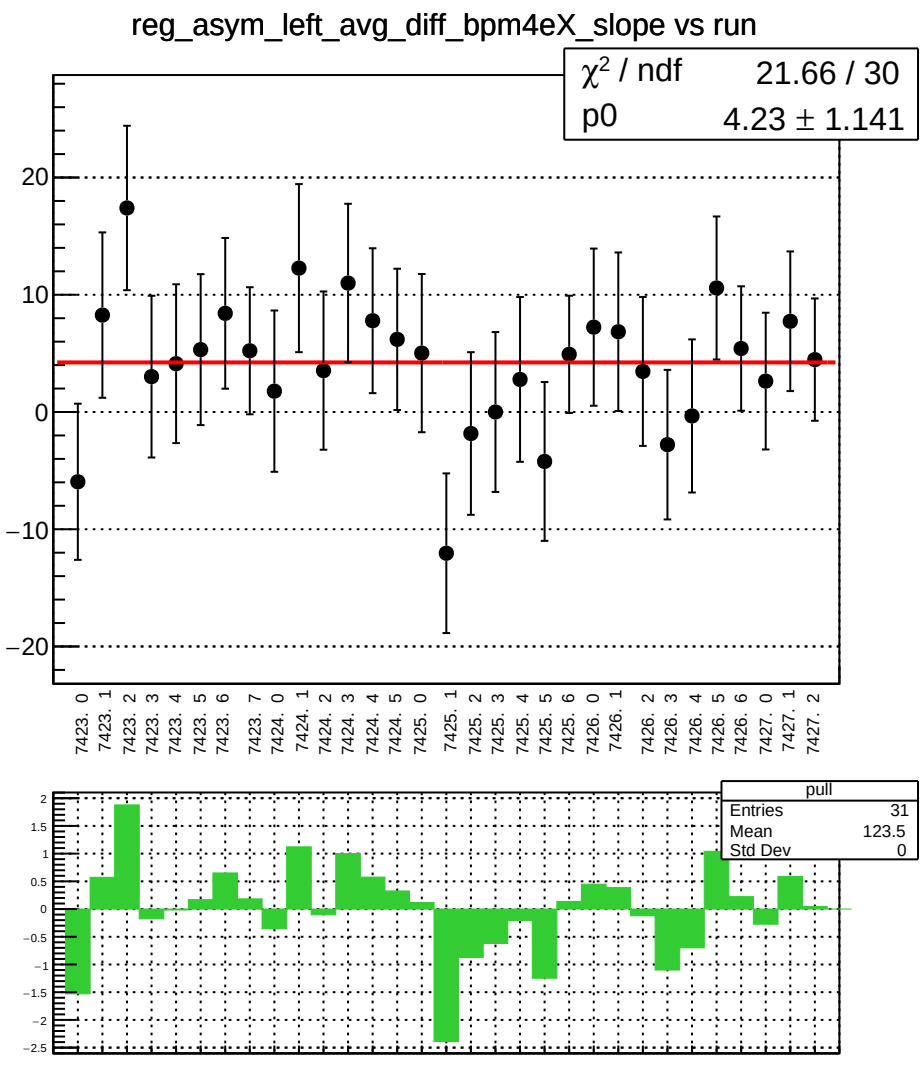

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 32.26 / 30
p0 0.01673 ± 0.01539
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 0.5781
Std Dev 6.764
2
1
0
−1
−2

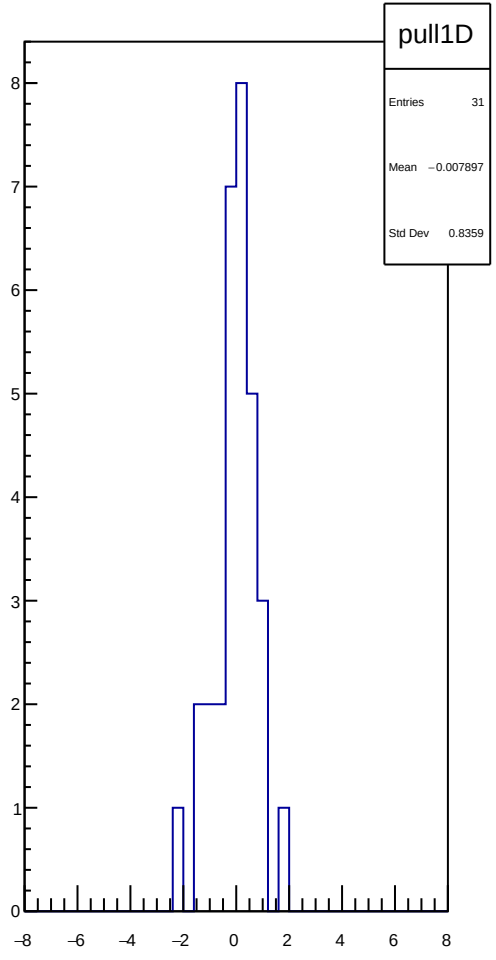

pull1D
Entries 31
Mean 0.04894
Std Dev 1.019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

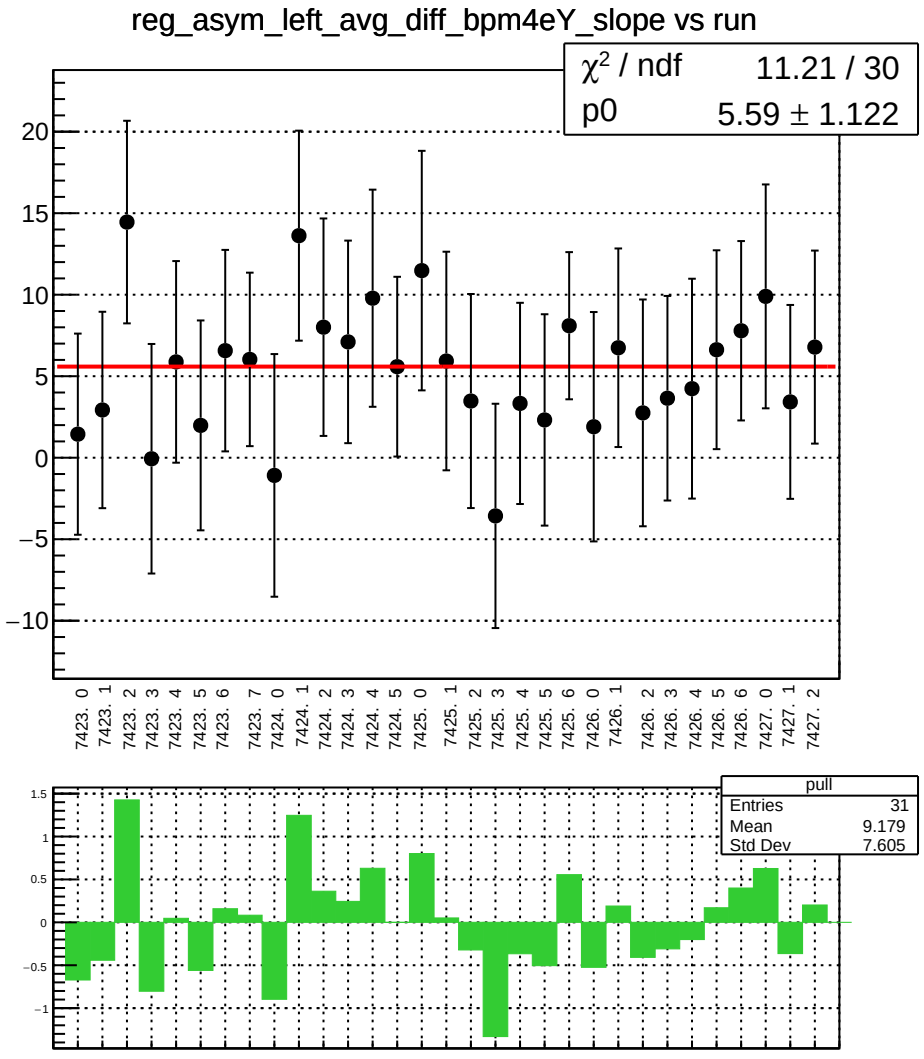

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 21.4 / 30
p0 −32.85 ± 1.104
pull
Entries 31
Mean 237.1
Std Dev 0

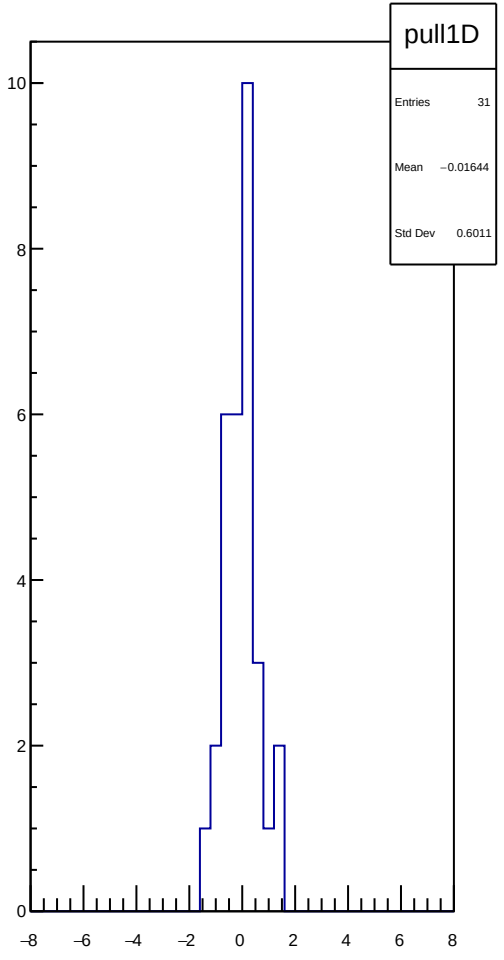

pull1D
Entries 31
Mean 0.003951
Std Dev 0.8308

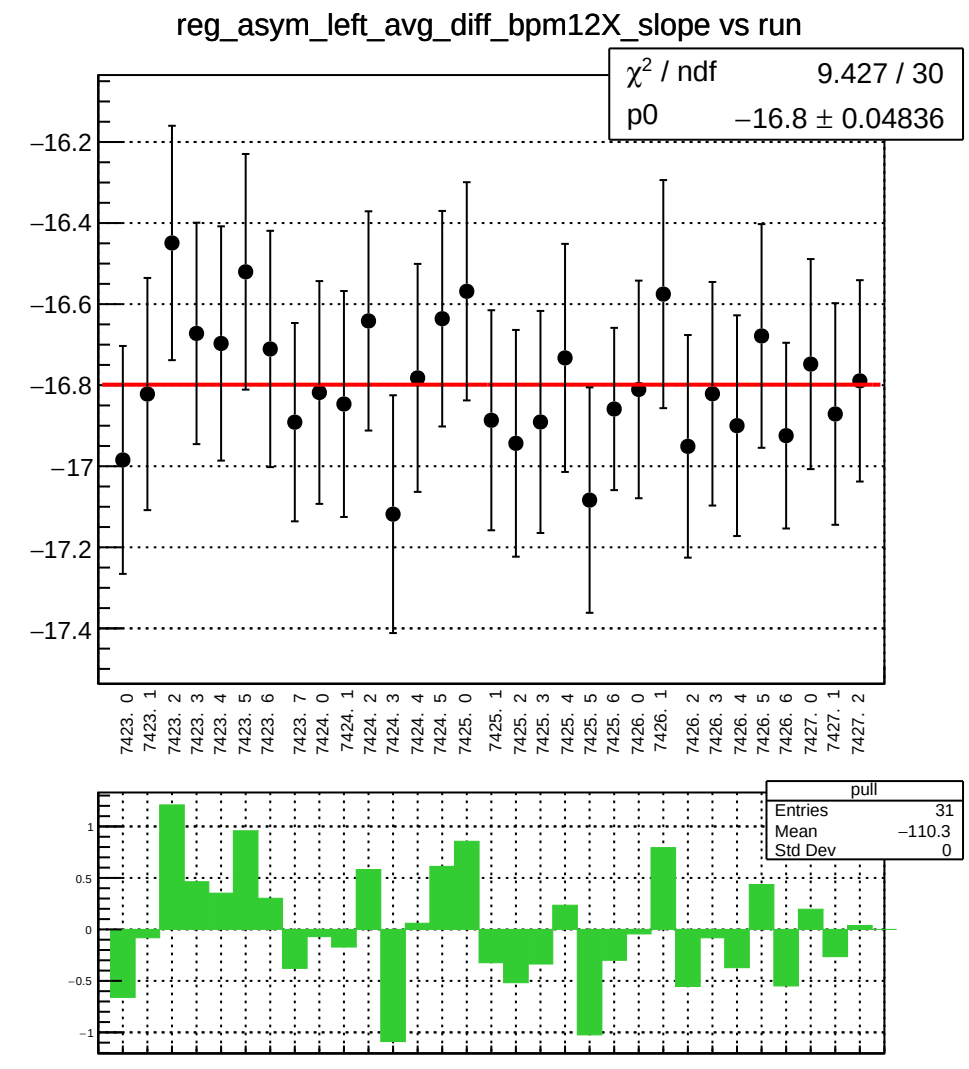

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.15 / 30
p0 2.936 ± 1.054
20
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 37.61
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.01804
Std Dev 0.5996
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

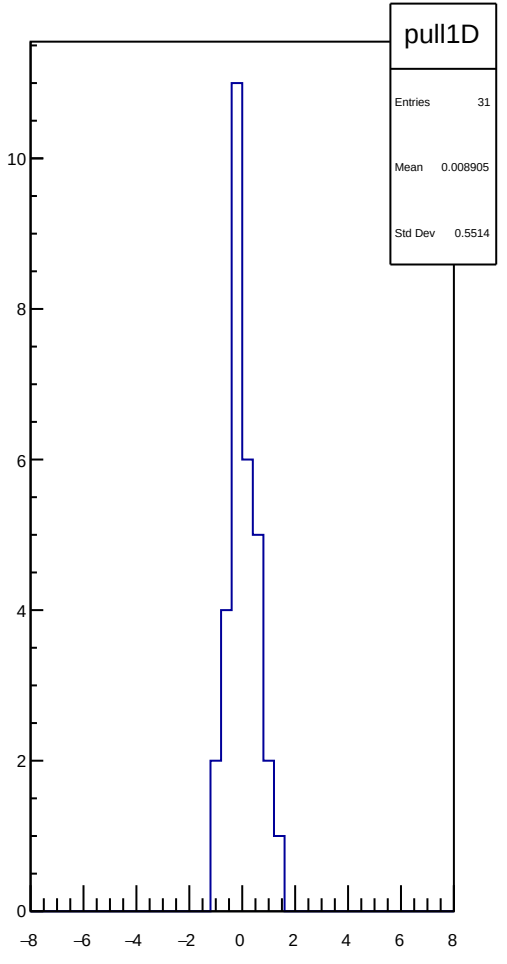

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.66 / 30
p0 4.23 ± 1.141
20
10
0
−10
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 123.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

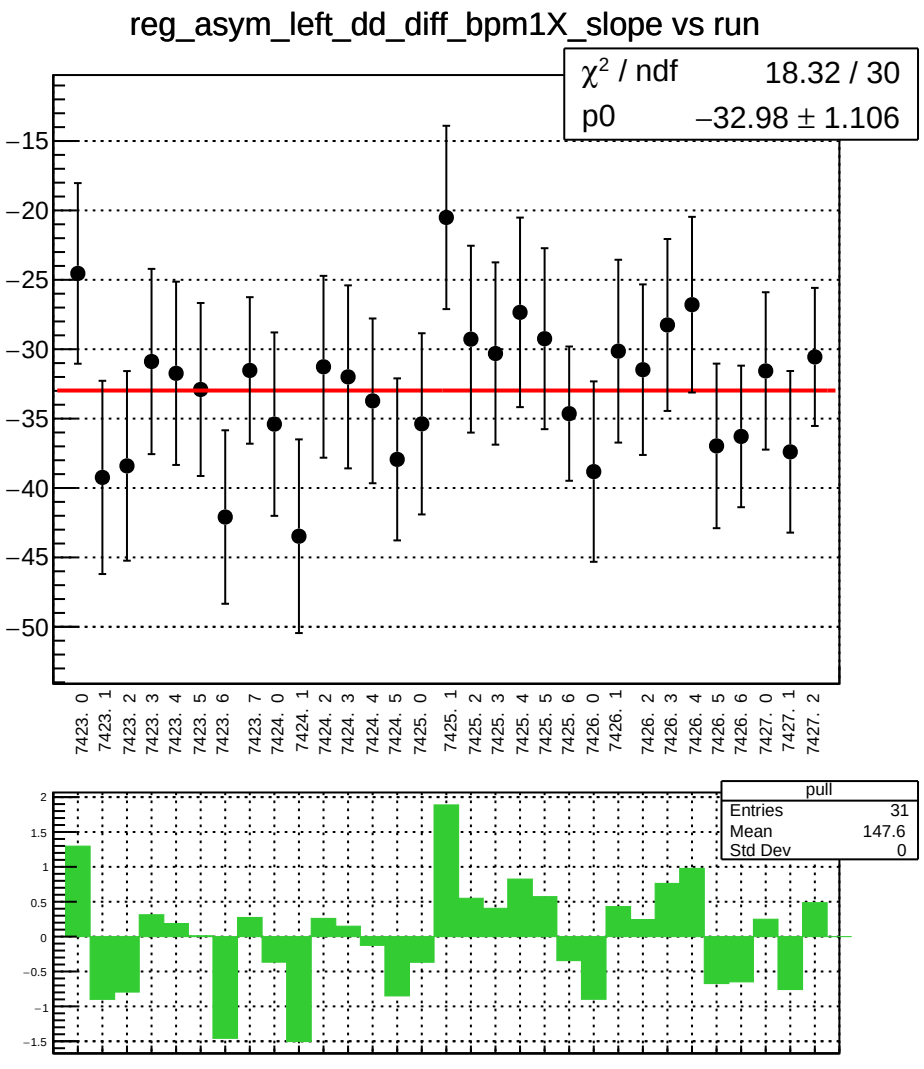

pull1D
Entries 31
Mean −0.007897
Std Dev 0.8359
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

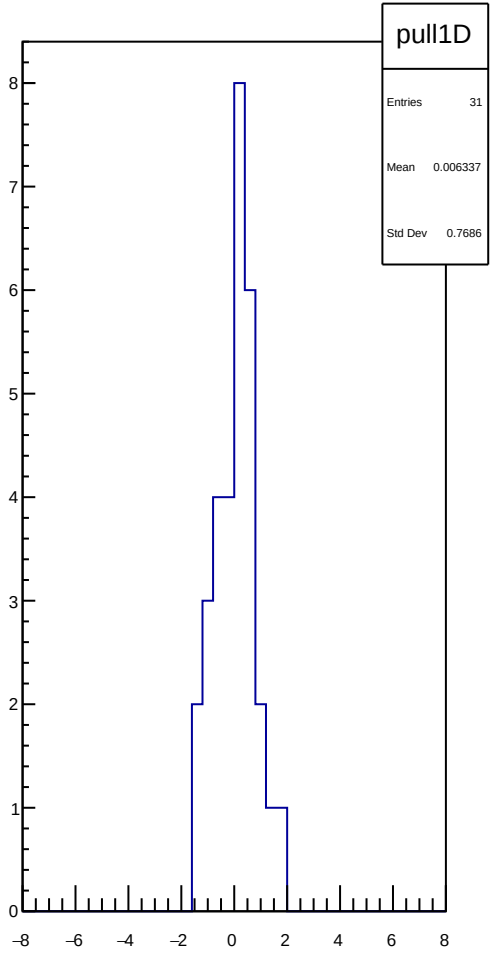

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.21 / 30
p0 5.59 ± 1.122
pull
Entries 31
Mean 9.179
Std Dev 7.605

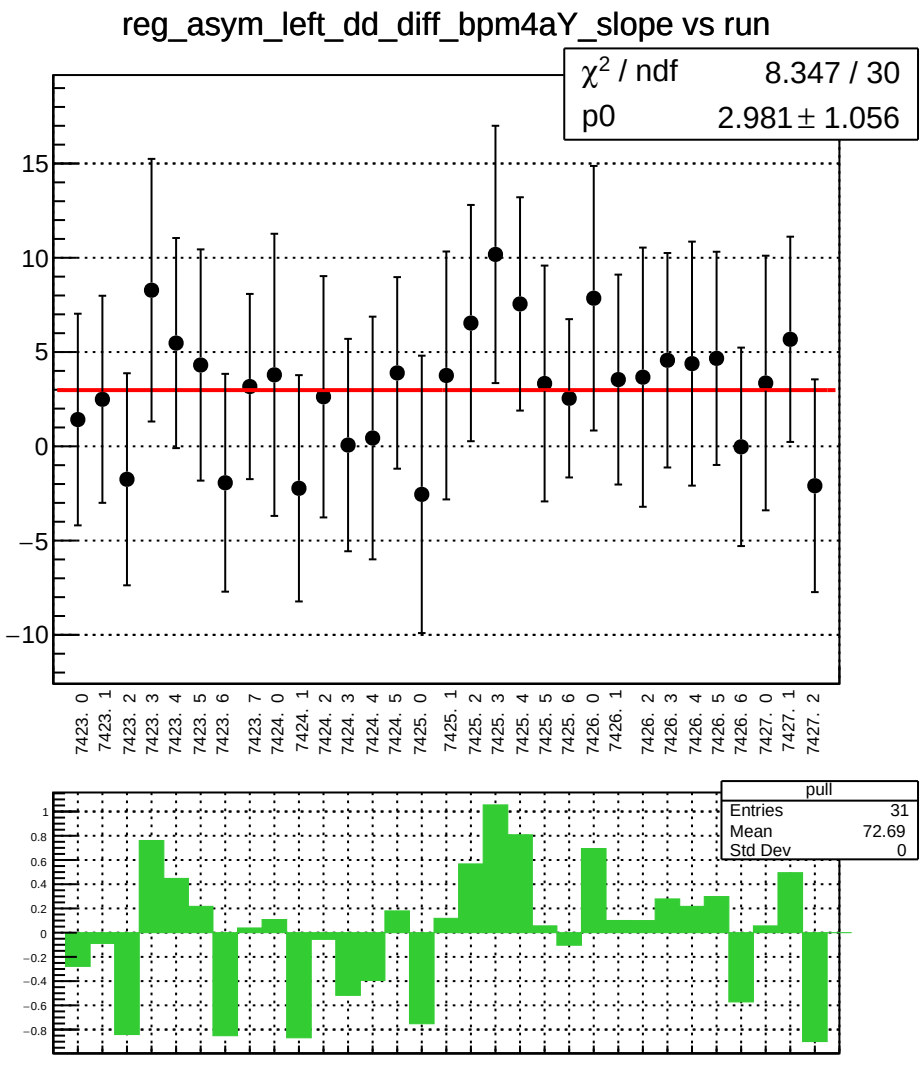

pull1D
Entries 31
Mean −0.01644
Std Dev 0.6011

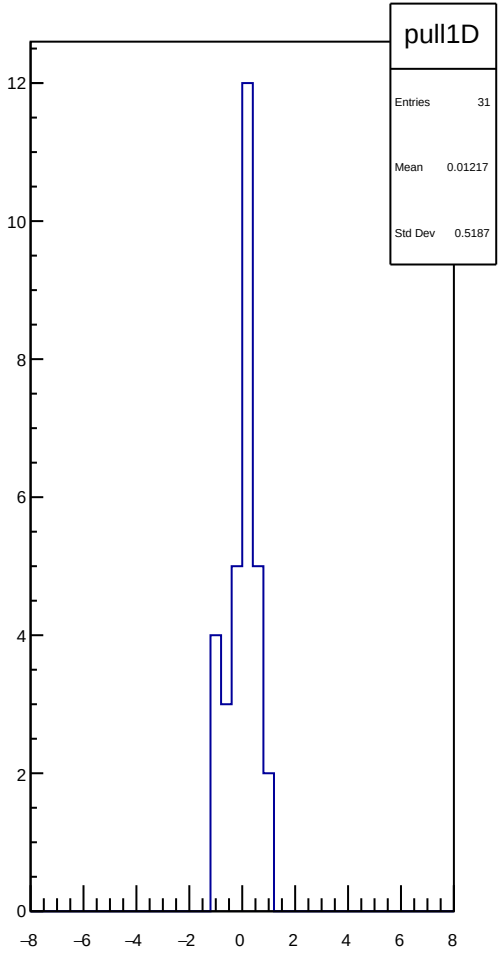

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 9.427 / 30
p0 −16.8 ± 0.04836
−16.2
−16.4
−16.6
−16.8
−17
−17.2
−17.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −110.3
Std Dev 0
1
0.5
0
−0.5
−1

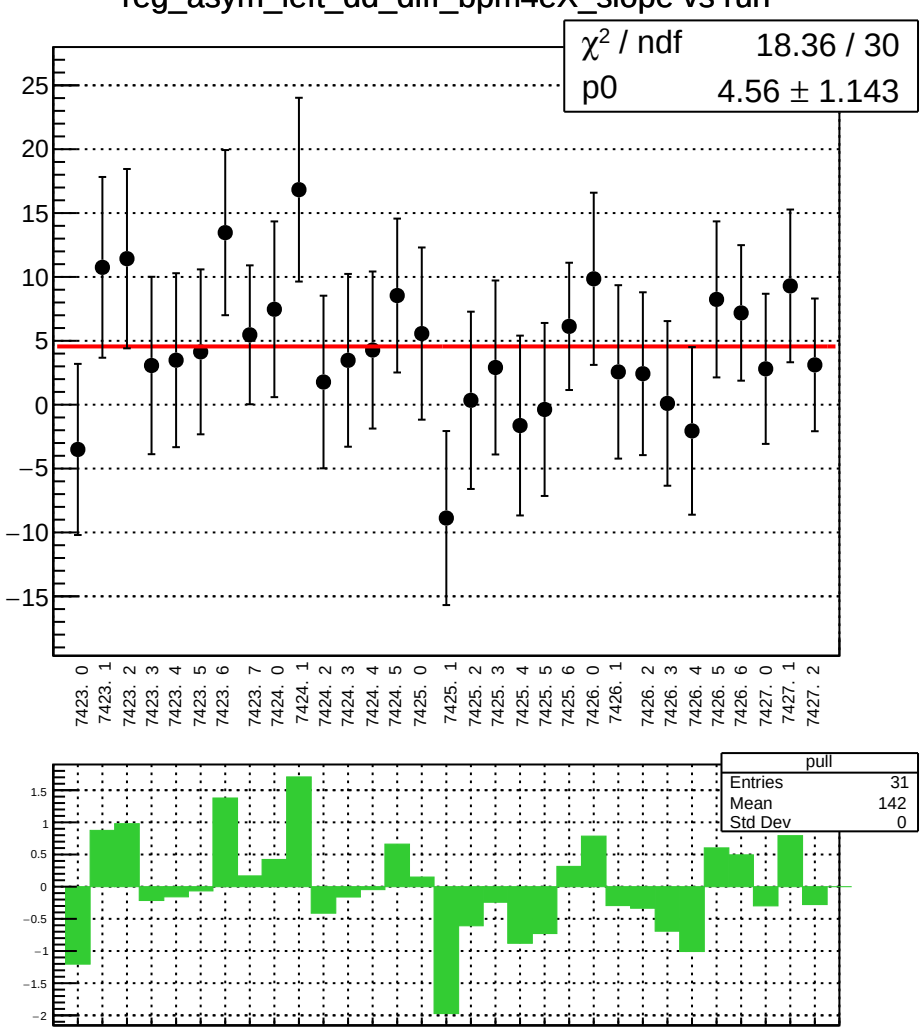

pull1D
Entries 31
Mean 0.008905
Std Dev 0.5514
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

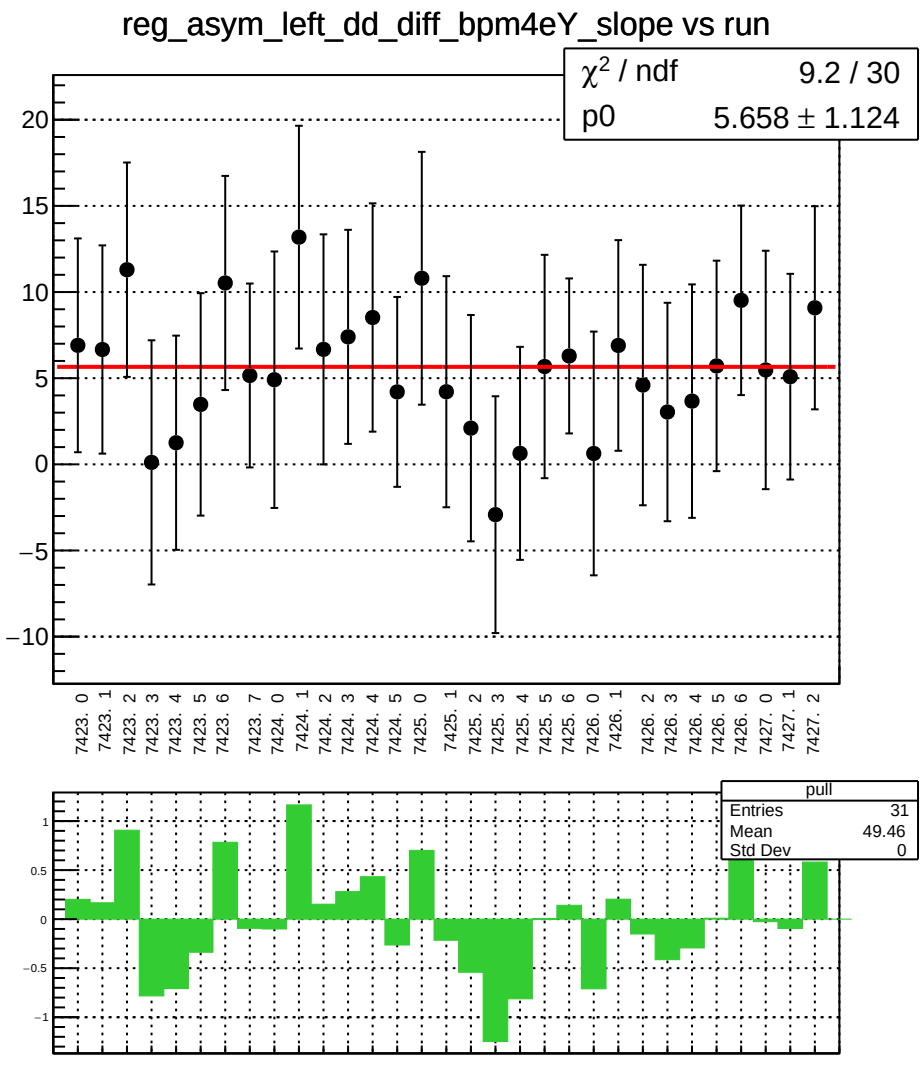

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 18.32 / 30
p0 −32.98 ± 1.106
−15
−20
−25
−30
−35
−40
−45
−50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 147.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

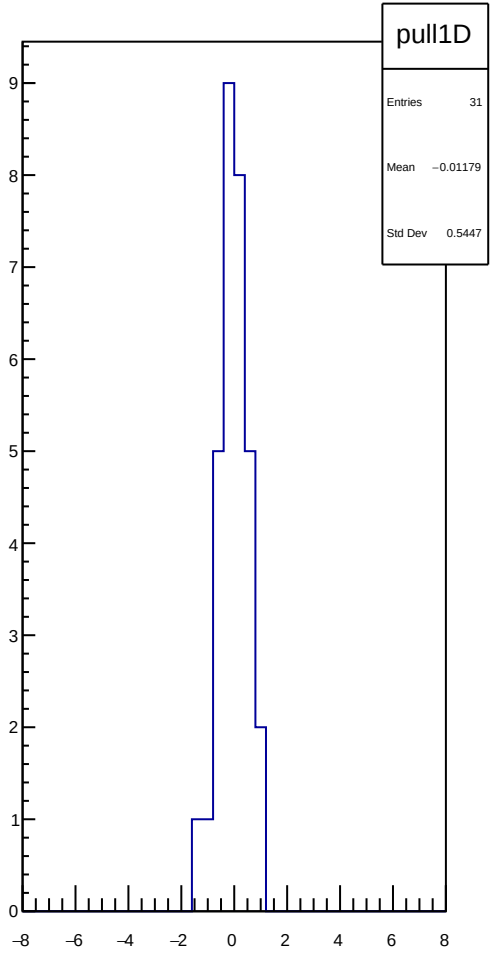

pull1D
Entries 31
Mean 0.006337
Std Dev 0.7686
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

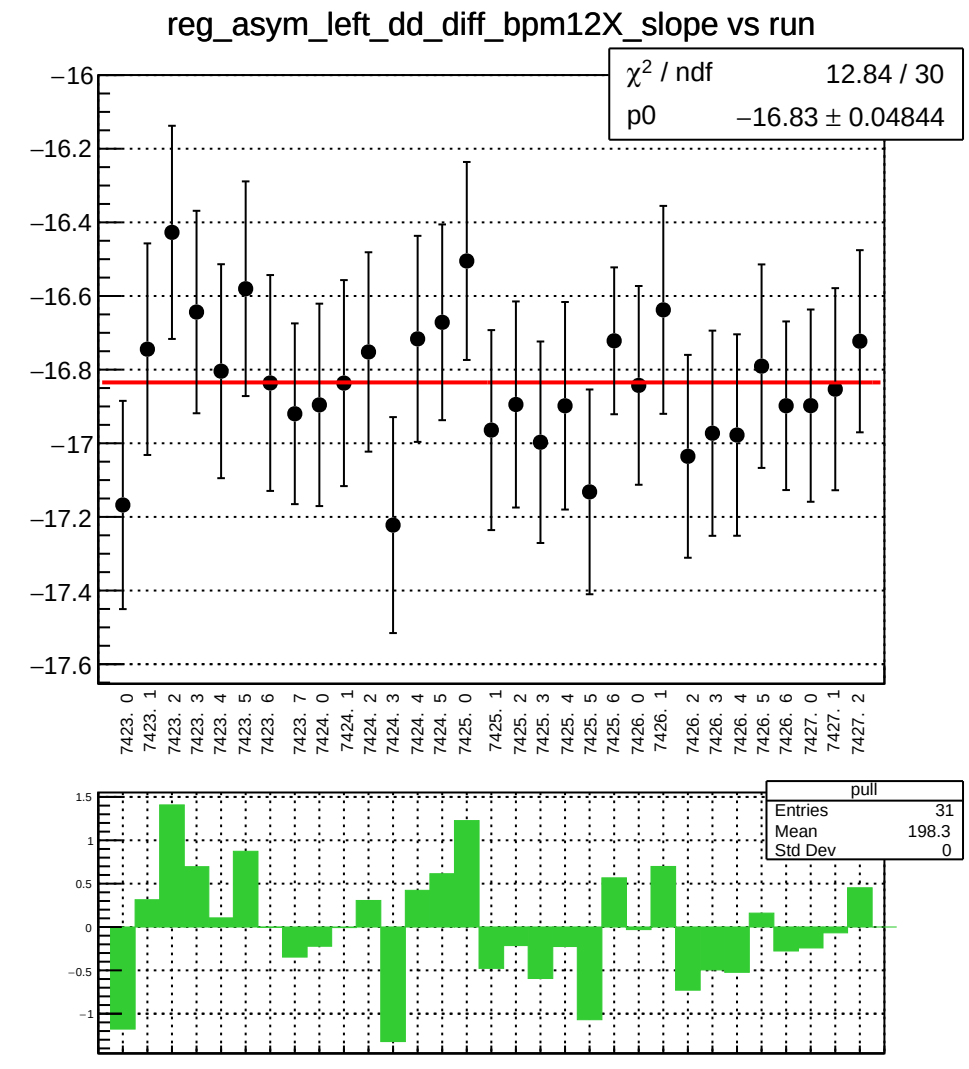

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.347 / 30
p0 2.981 ± 1.056
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 72.69
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

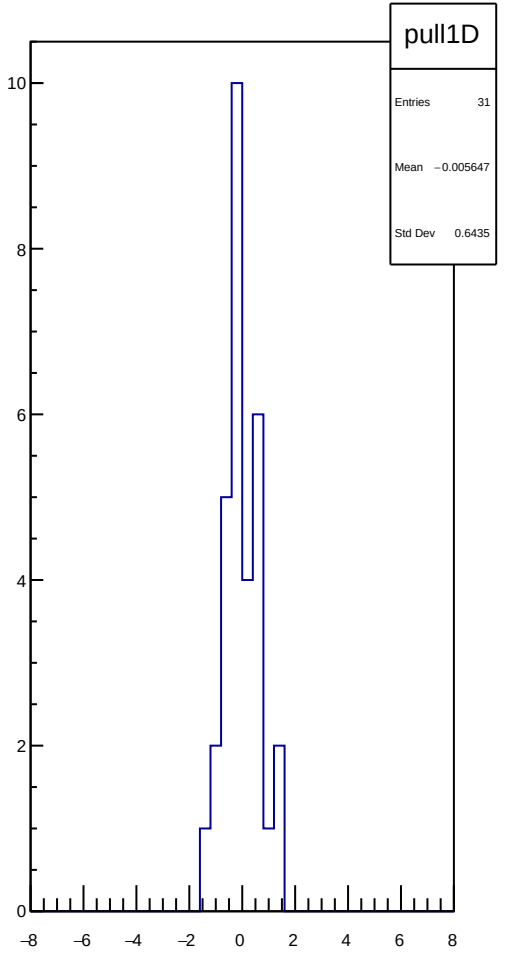

pull1D
Entries 31
Mean 0.01217
Std Dev 0.5187
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

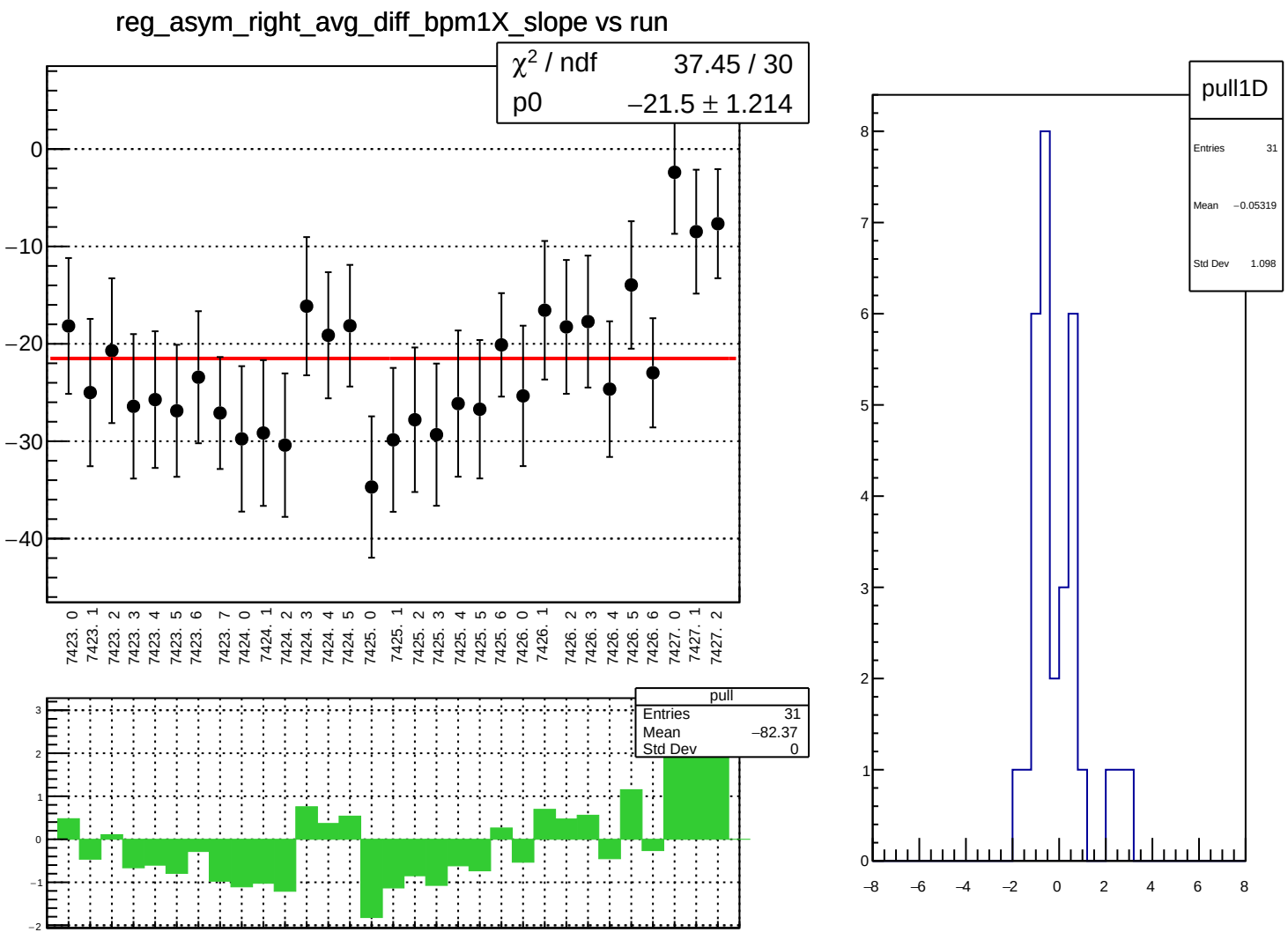

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.36 / 30
p0 4.56 ± 1.143
25
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 142
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.008487
Std Dev 0.7695
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

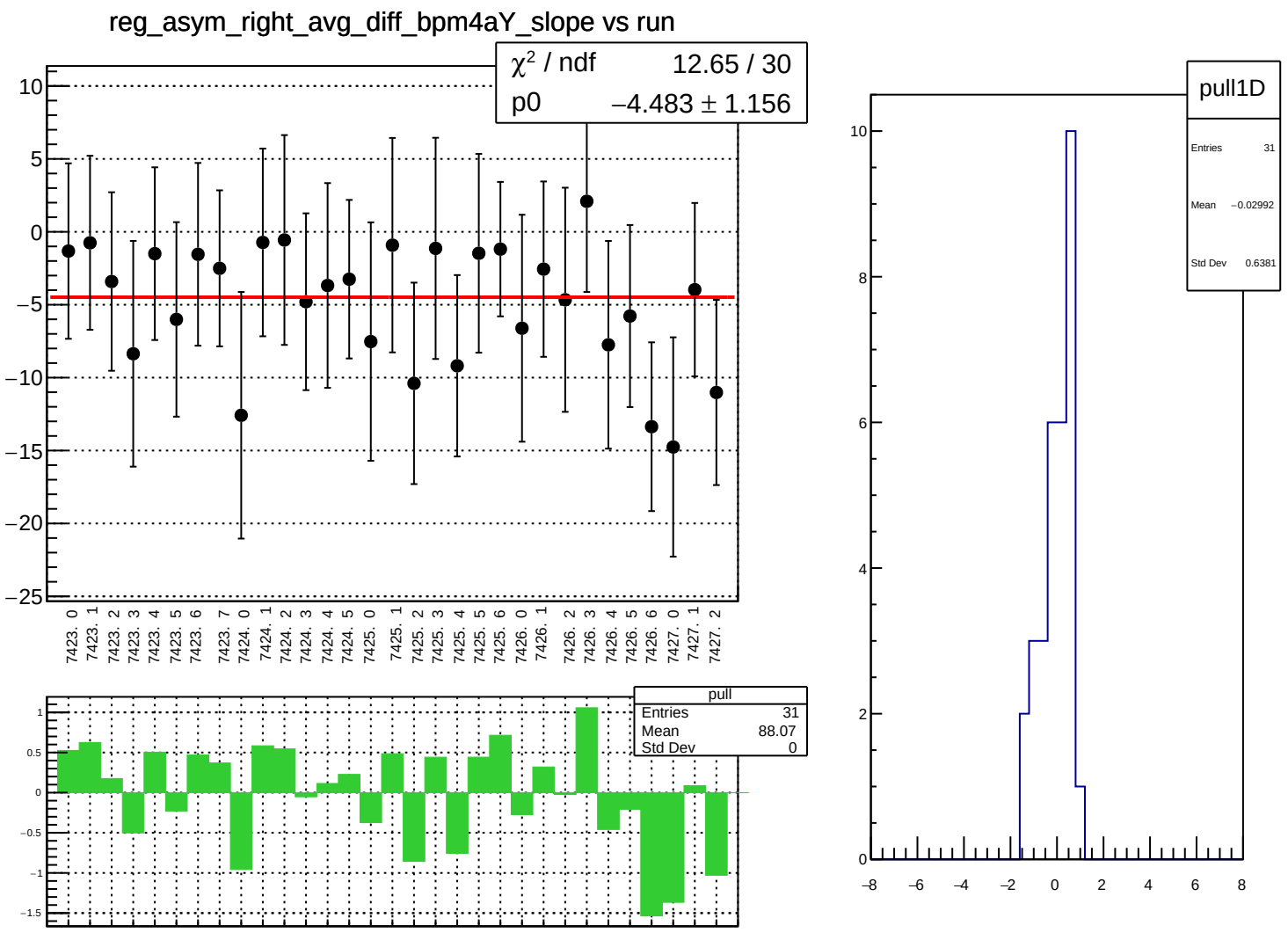

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.2 / 30
p0 5.658 ± 1.124
20
15
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.46
Std Dev 0
1
0.5
0
−0.5
−1

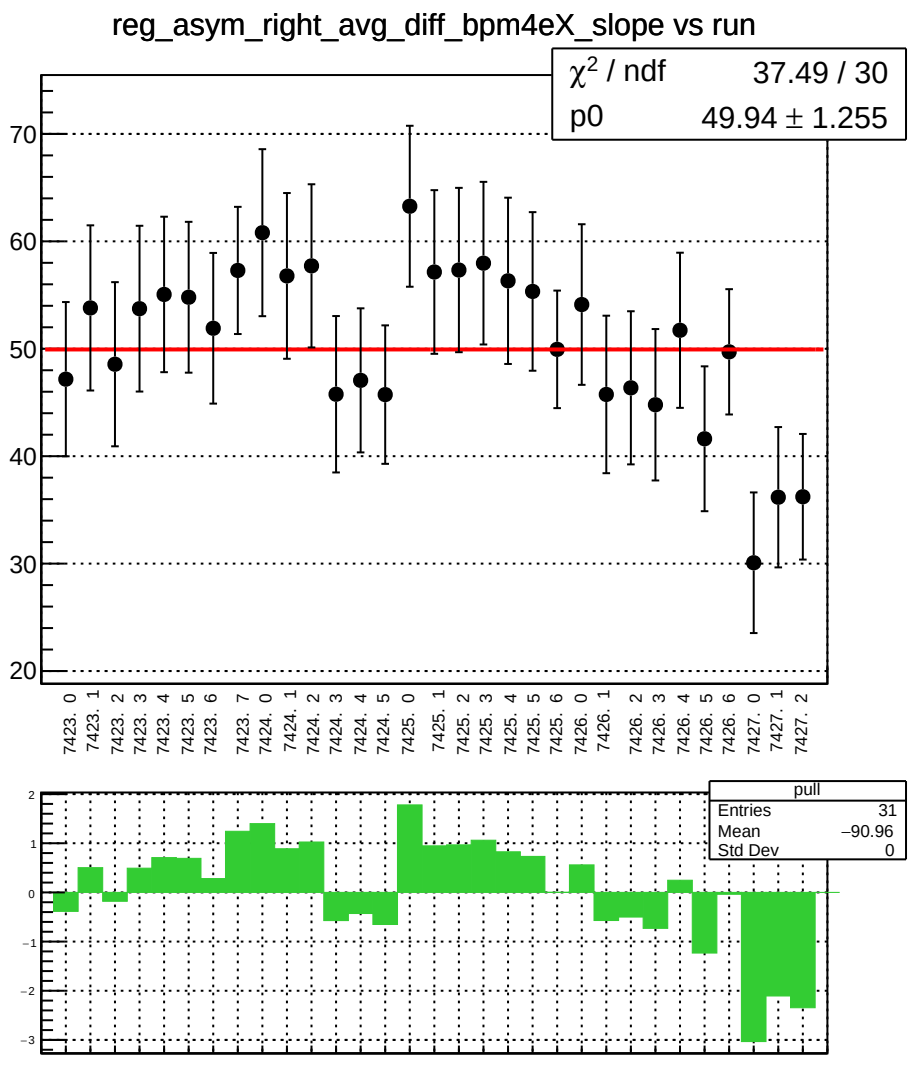

pull1D
Entries 31
Mean −0.01179
Std Dev 0.5447
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

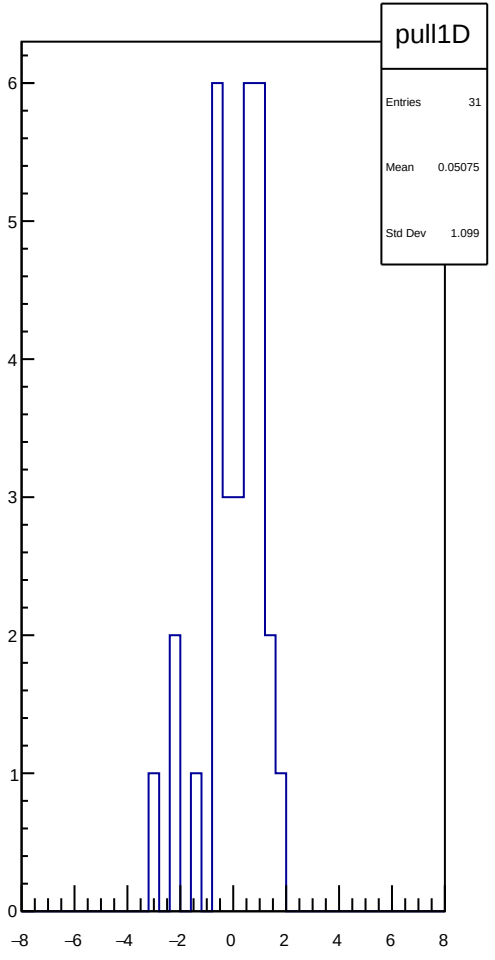

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 12.84 / 30
p0 −16.83 ± 0.04844
pull
Entries 31
Mean 198.3
Std Dev 0

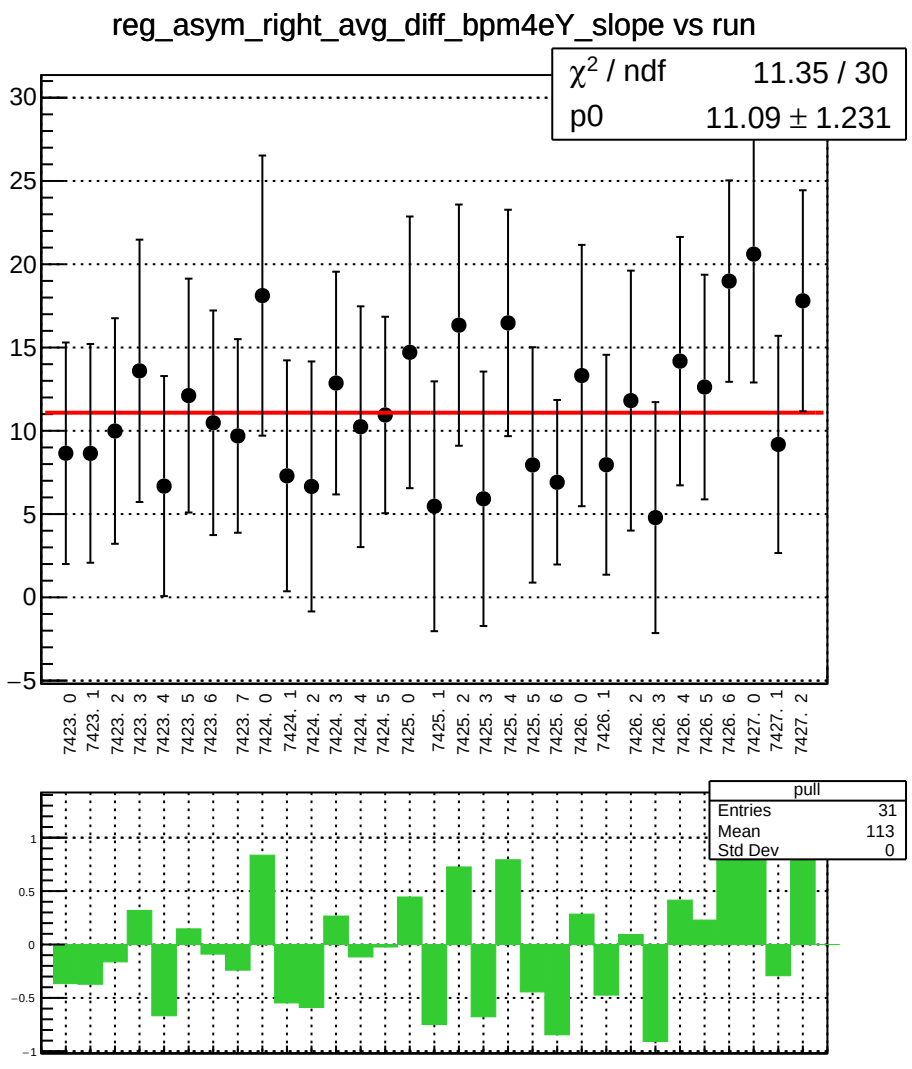

pull1D
Entries 31
Mean −0.005647
Std Dev 0.6435

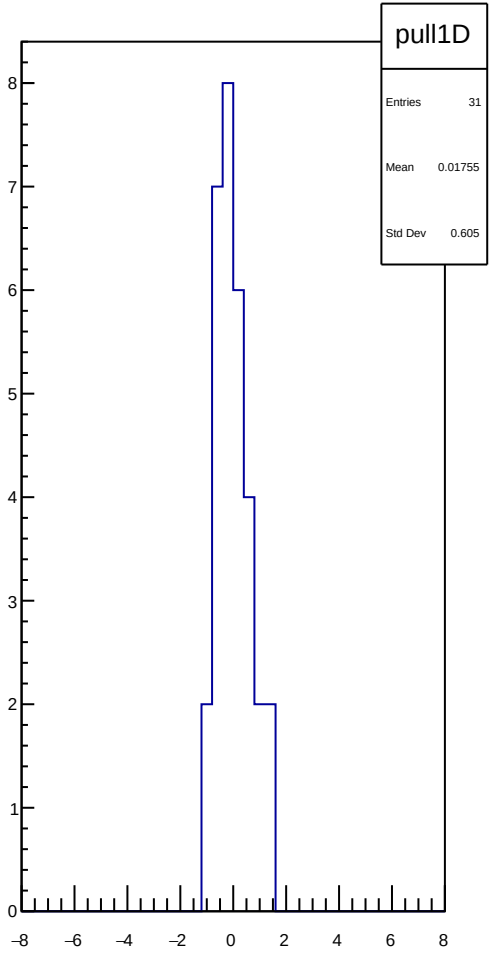

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 37.45 / 30
p0 −21.5 ± 1.214
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −82.37
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.05319
Std Dev 1.098
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

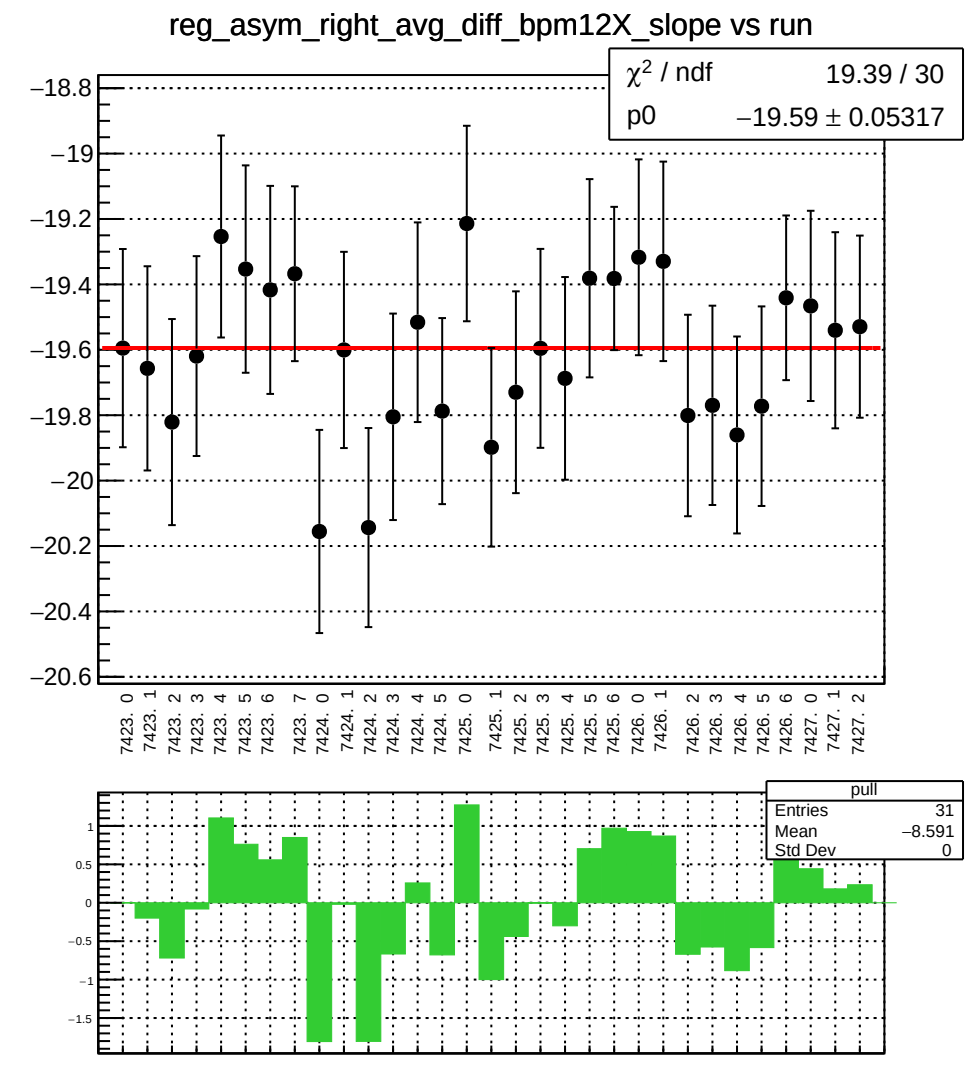

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.65 / 30
p0 −4.483 ± 1.156
pull
Entries 31
Mean 88.07
Std Dev 0
pull1D
Entries 31
Mean −0.02992
Std Dev 0.6381

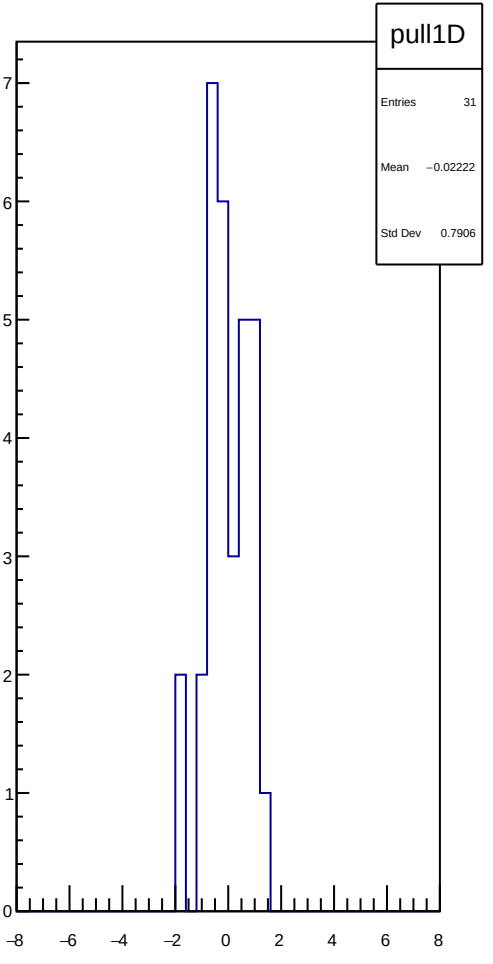

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.49 / 30
p0 49.94 ± 1.255
70
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −90.96
Std Dev 0
2
1
0
−1
−2
−3

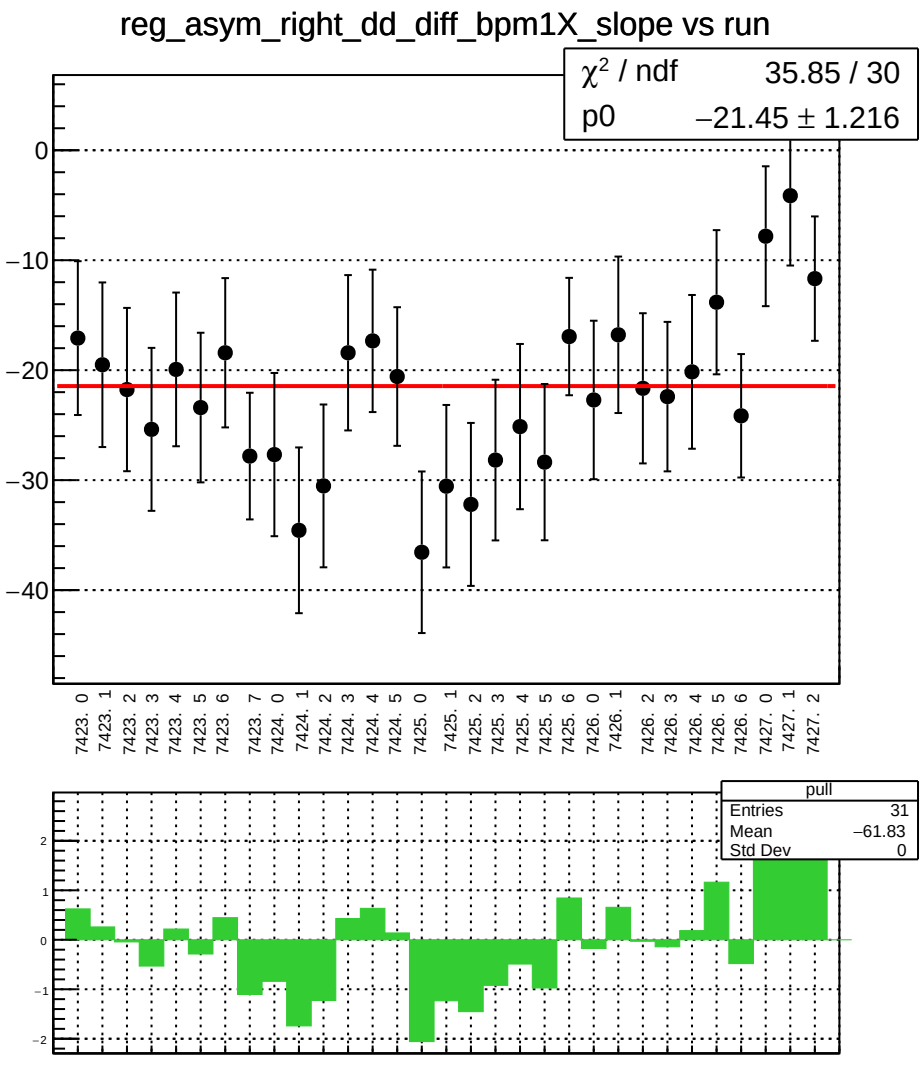

pull1D
Entries 31
Mean 0.05075
Std Dev 1.099
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

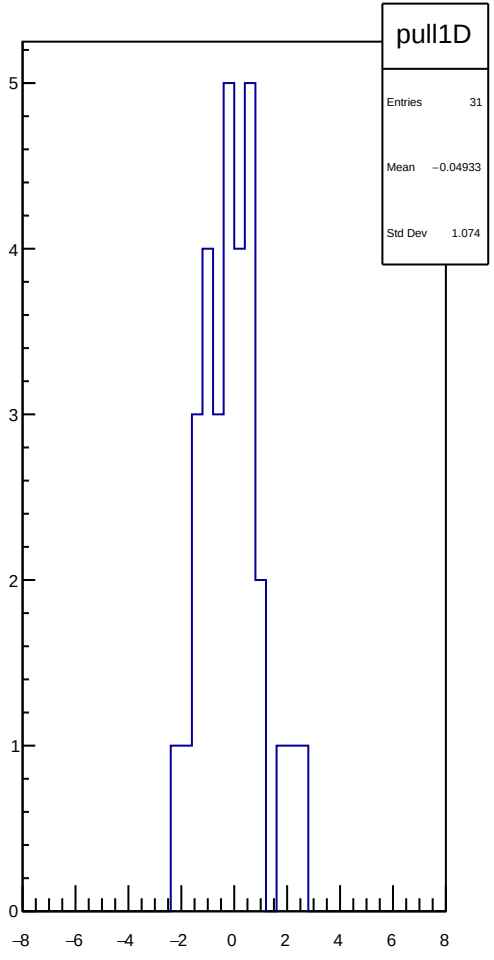

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.35 / 30
p0 11.09 ± 1.231
pull
Entries 31
Mean 113
Std Dev 0

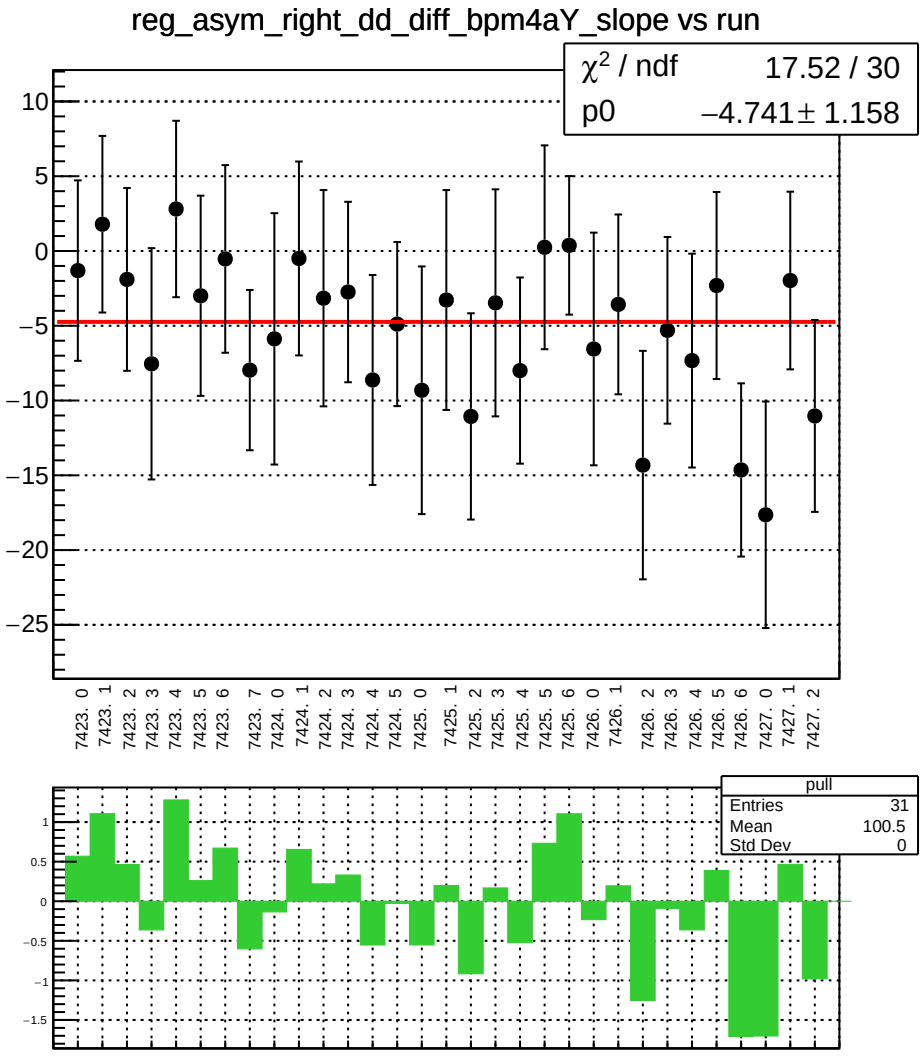

pull1D
Entries 31
Mean 0.01755
Std Dev 0.605

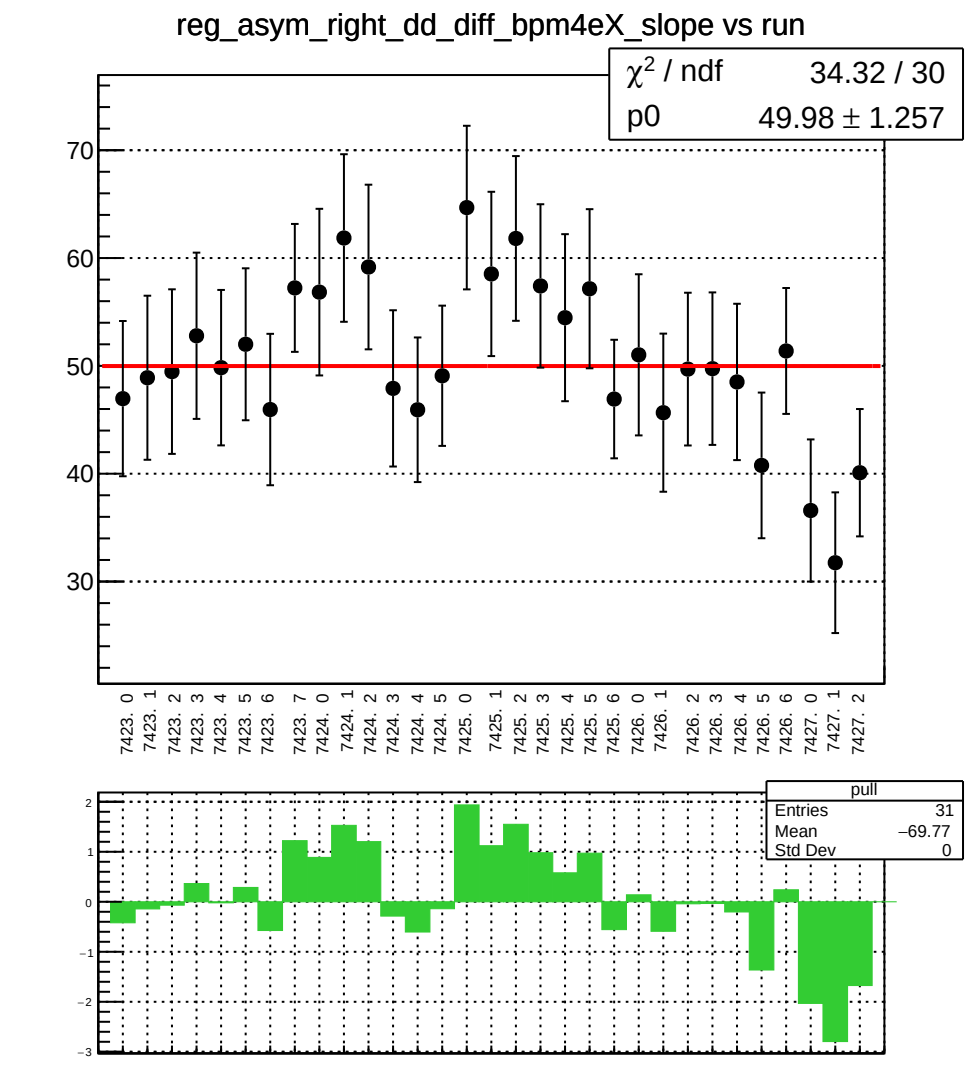

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 19.39 / 30
p0 −19.59 ± 0.05317
−18.8
−19
−19.2
−19.4
−19.6
−19.8
−20
−20.2
−20.4
−20.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −8.591
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

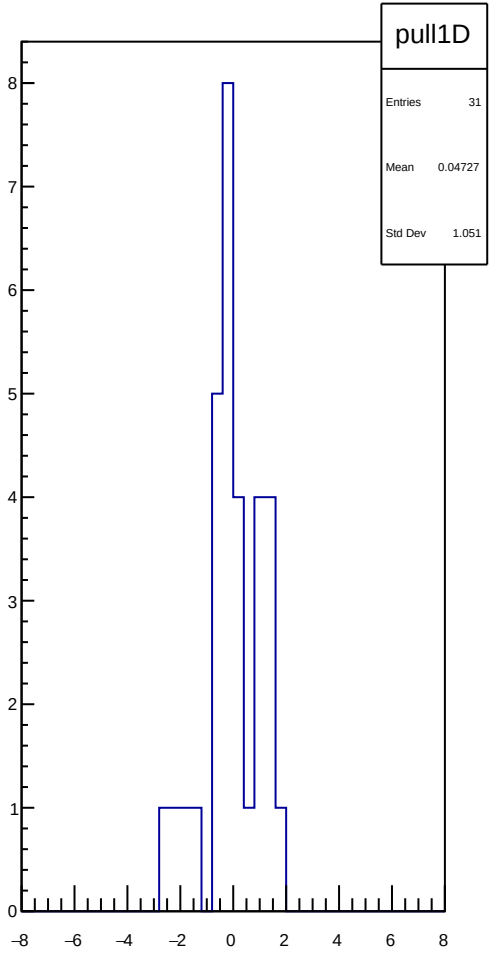

pull1D
Entries 31
Mean −0.02222
Std Dev 0.7906
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

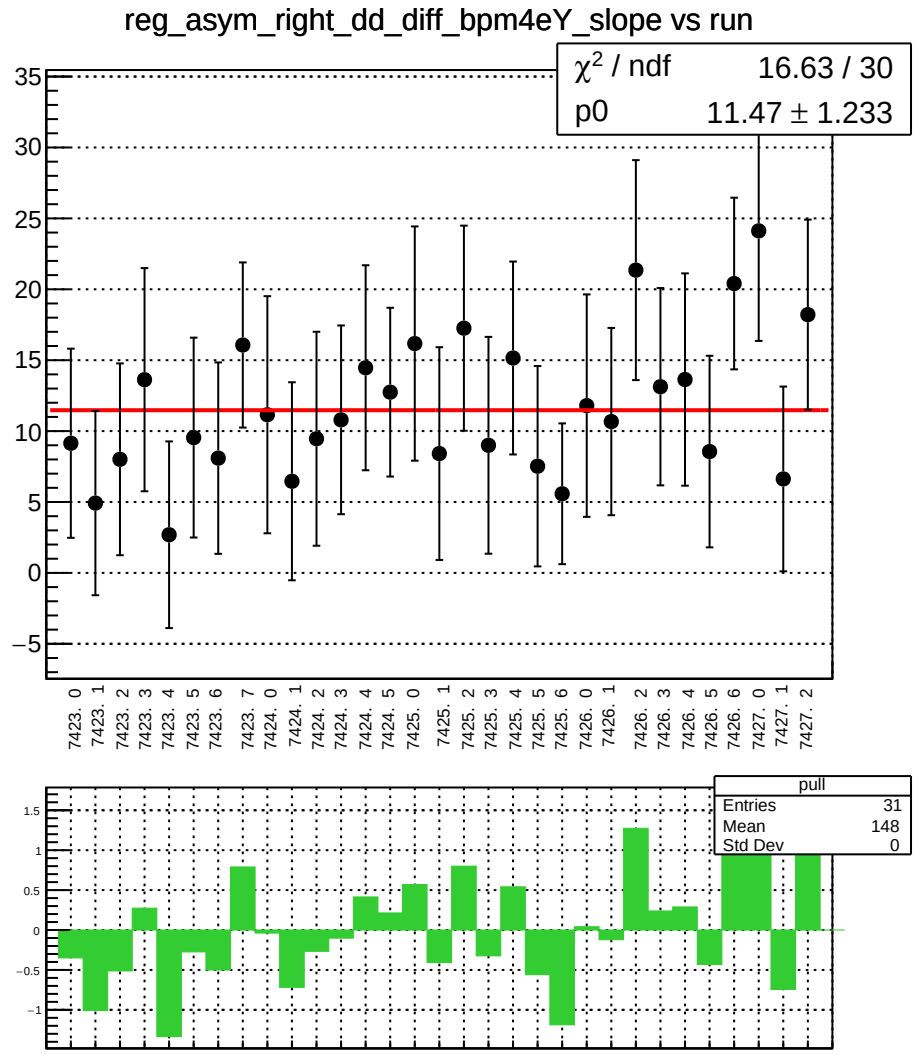

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 35.85 / 30
p0 −21.45 ± 1.216
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −61.83
Std Dev 0
2
1
0
−1
−2

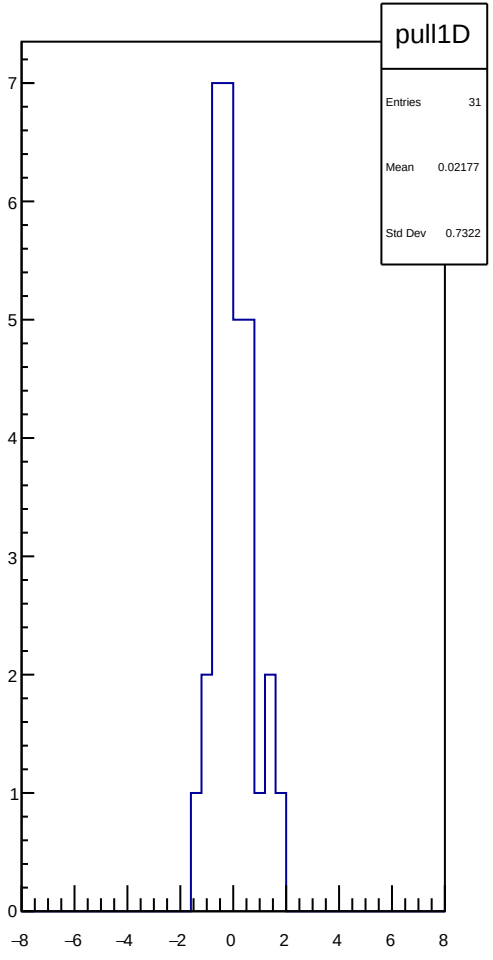

pull1D
Entries 31
Mean −0.04933
Std Dev 1.074
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

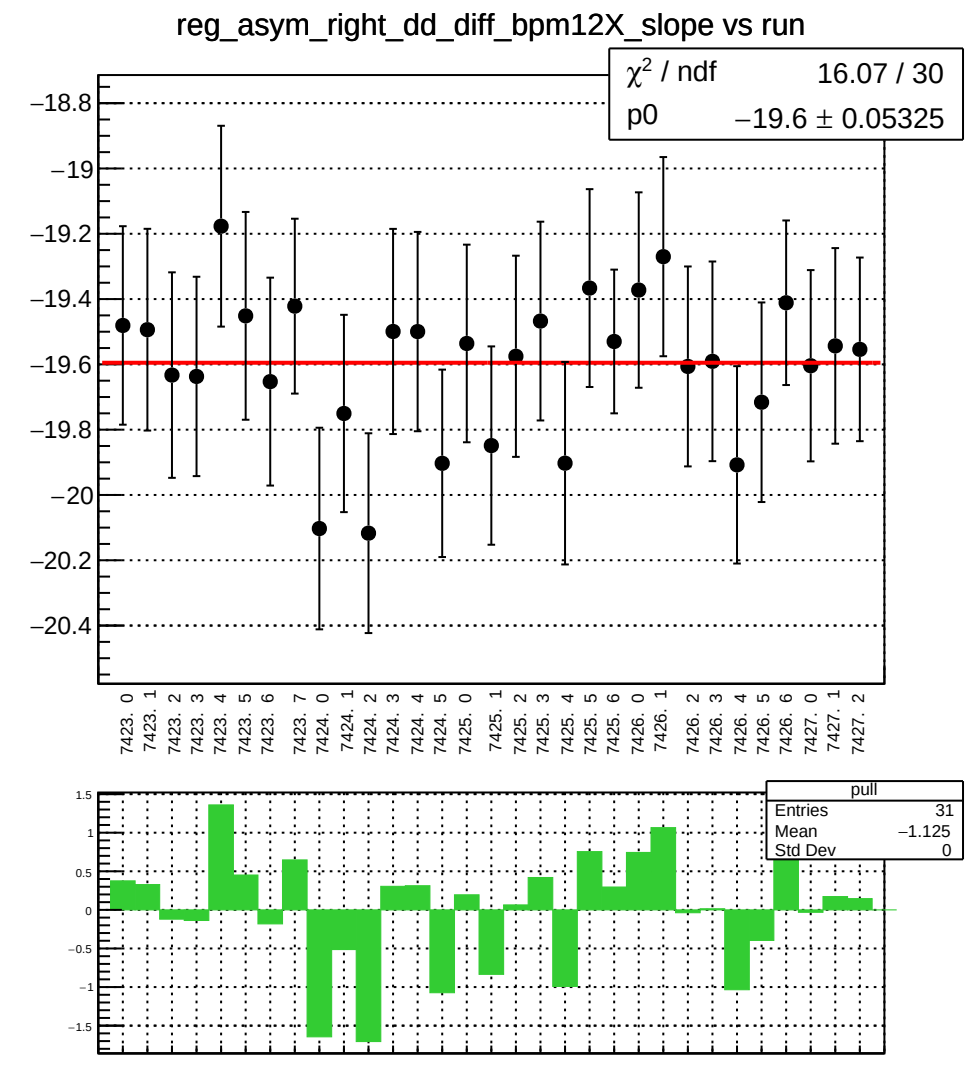

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.52 / 30
p0 −4.741 ± 1.158
10
5
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 100.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.03854
Std Dev 0.7508
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

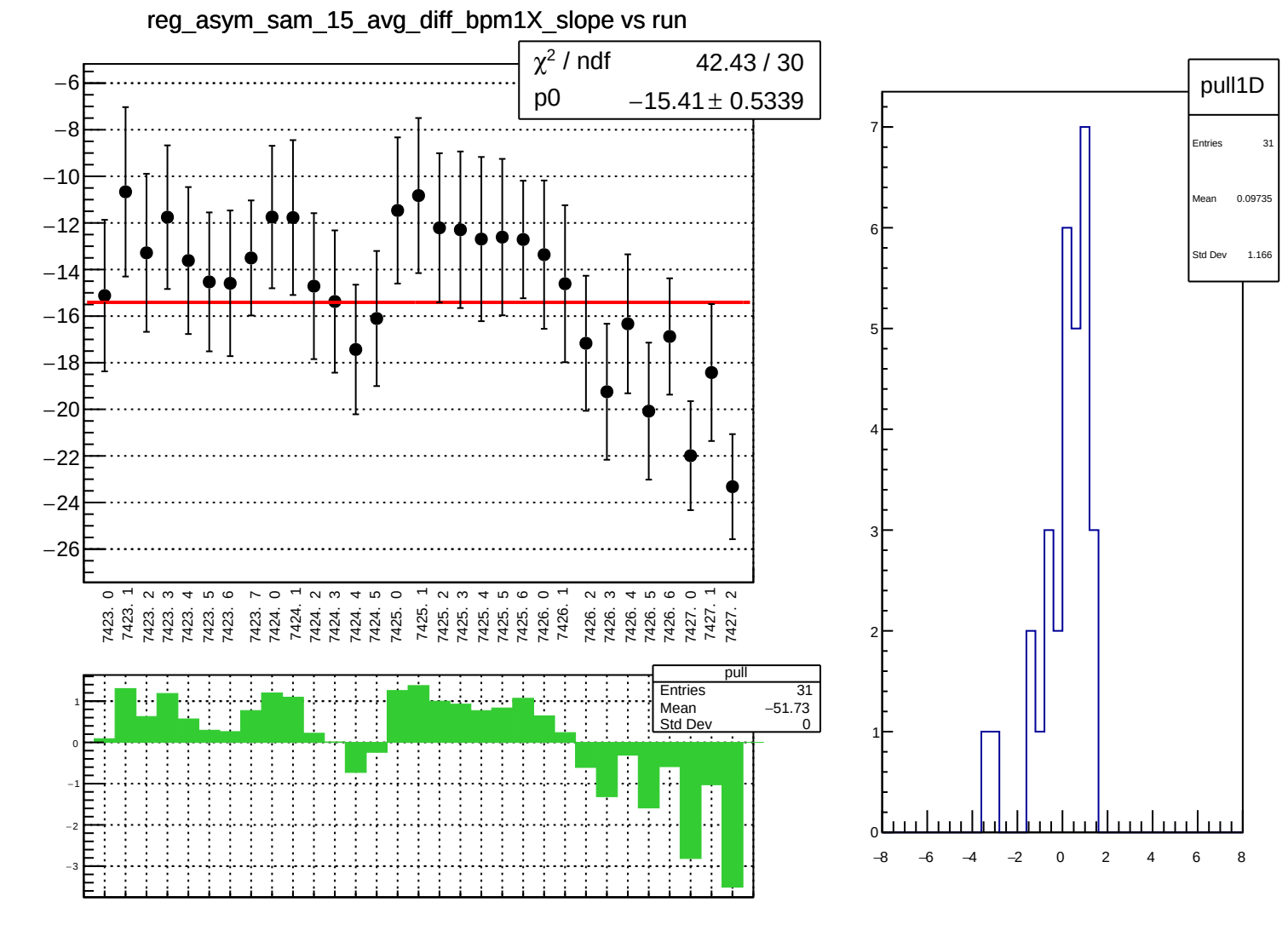

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.32 / 30
p0 49.98 ± 1.257
70
60
50
40
30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −69.77
Std Dev 0
2
1
0
−1
−2
−3

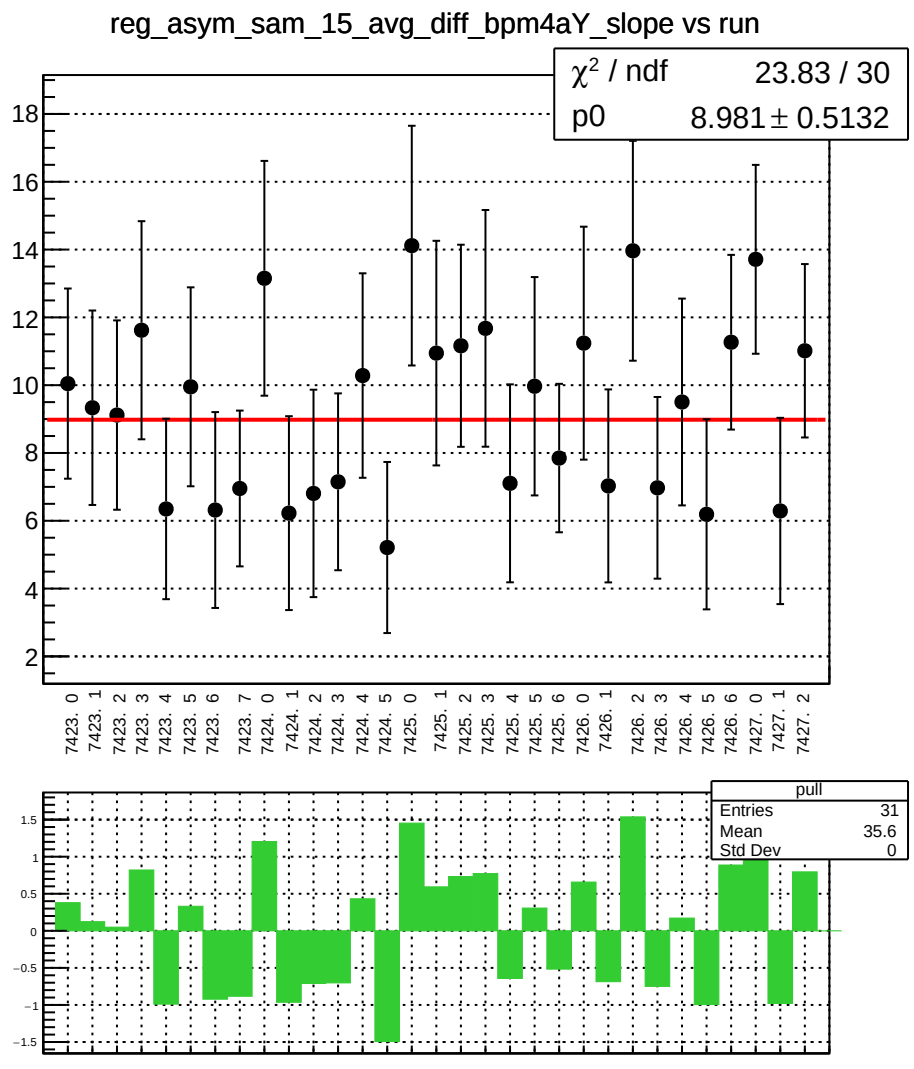

pull1D
Entries 31
Mean 0.04727
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

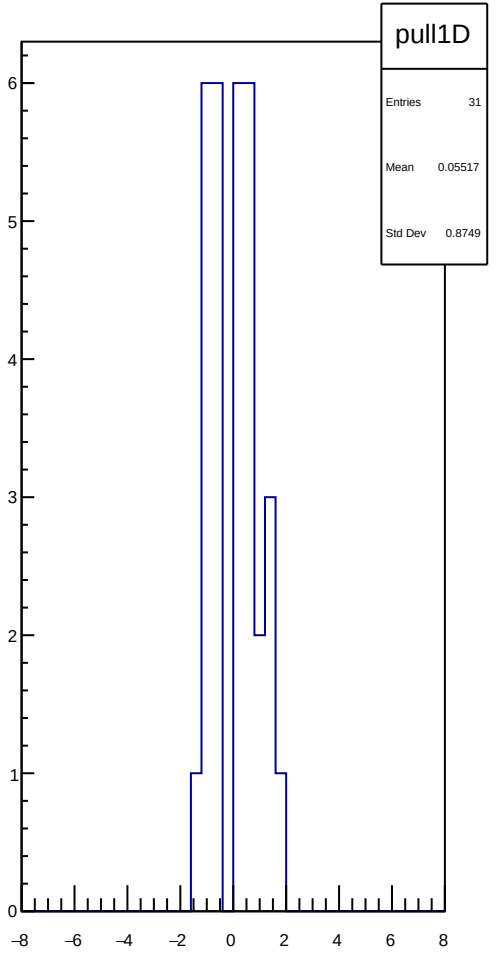

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.63 / 30
p0 11.47 ± 1.233
pull
Entries 31
Mean 148
Std Dev 0

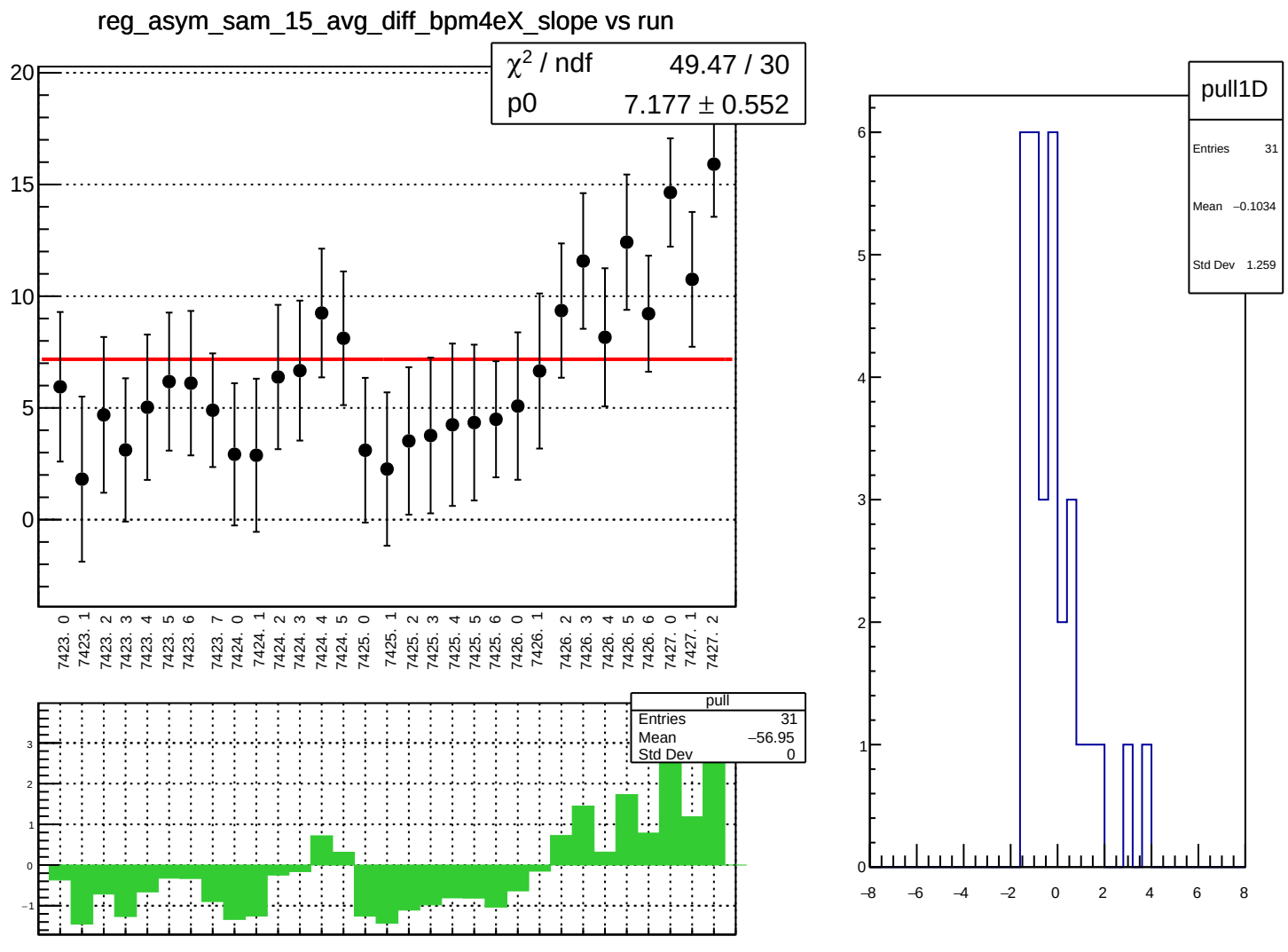

pull1D
Entries 31
Mean 0.02177
Std Dev 0.7322

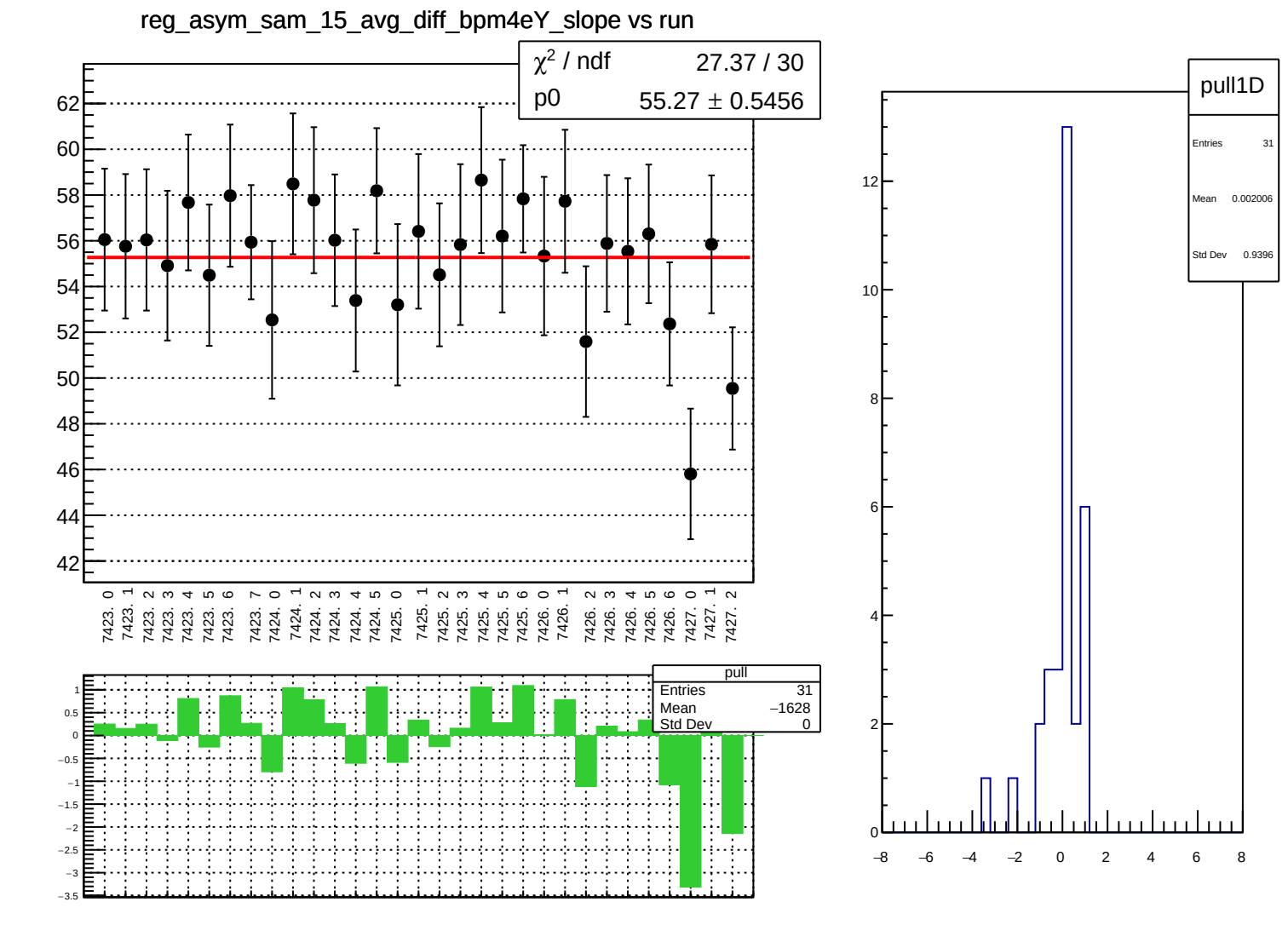

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 16.07 / 30
p0 −19.6 ± 0.05325
−18.8
−19
−19.2
−19.4
−19.6
−19.8
−20
−20.2
−20.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1.125
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01031
Std Dev 0.7198
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

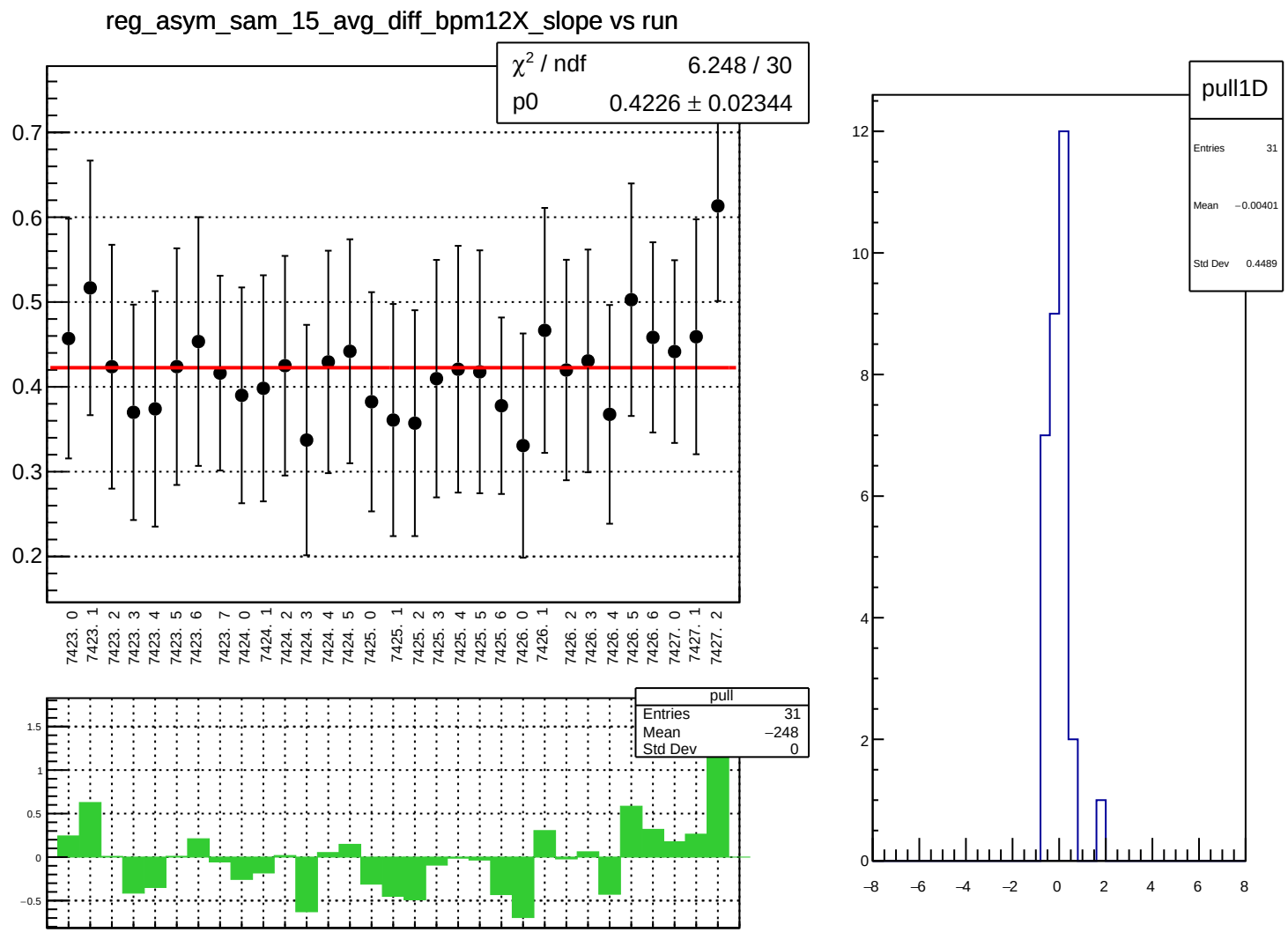

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 42.43 / 30
p0 −15.41 ± 0.5339
pull
Entries 31
Mean −51.73
Std Dev 0
pull1D
Entries 31
Mean 0.09735
Std Dev 1.166

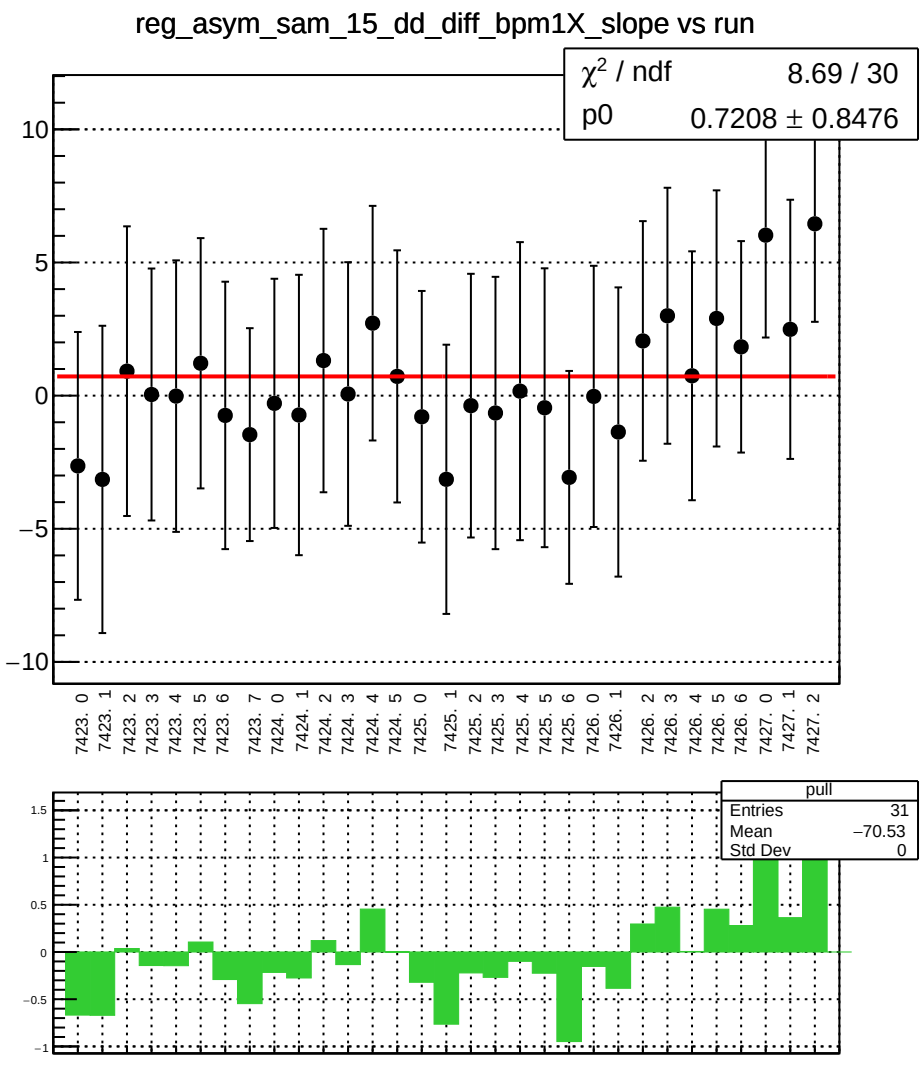

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.83 / 30
p0 8.981 ± 0.5132
18
16
14
12
10
8
6
4
2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 35.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

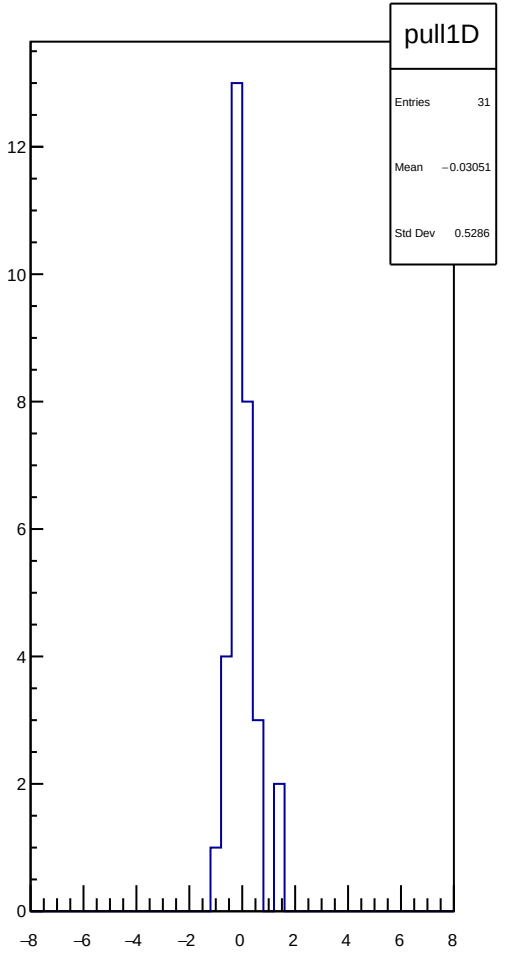

pull1D
Entries 31
Mean 0.05517
Std Dev 0.8749
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

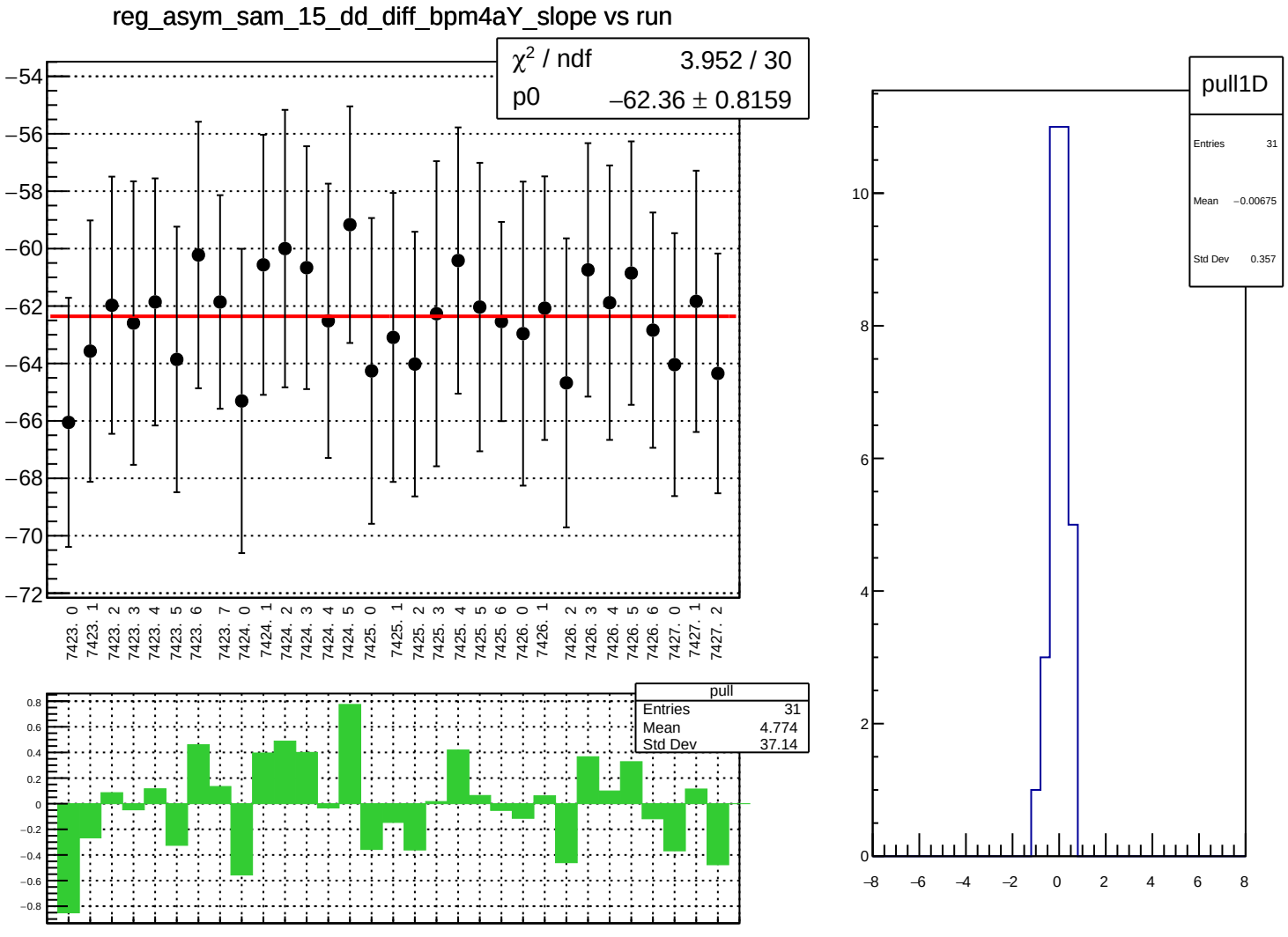

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.47 / 30
p0 7.177 ± 0.552
20
15
10
5
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −56.95
Std Dev 0
3
2
1
0
−1
pull1D
Entries 31
Mean −0.1034
Std Dev 1.259
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

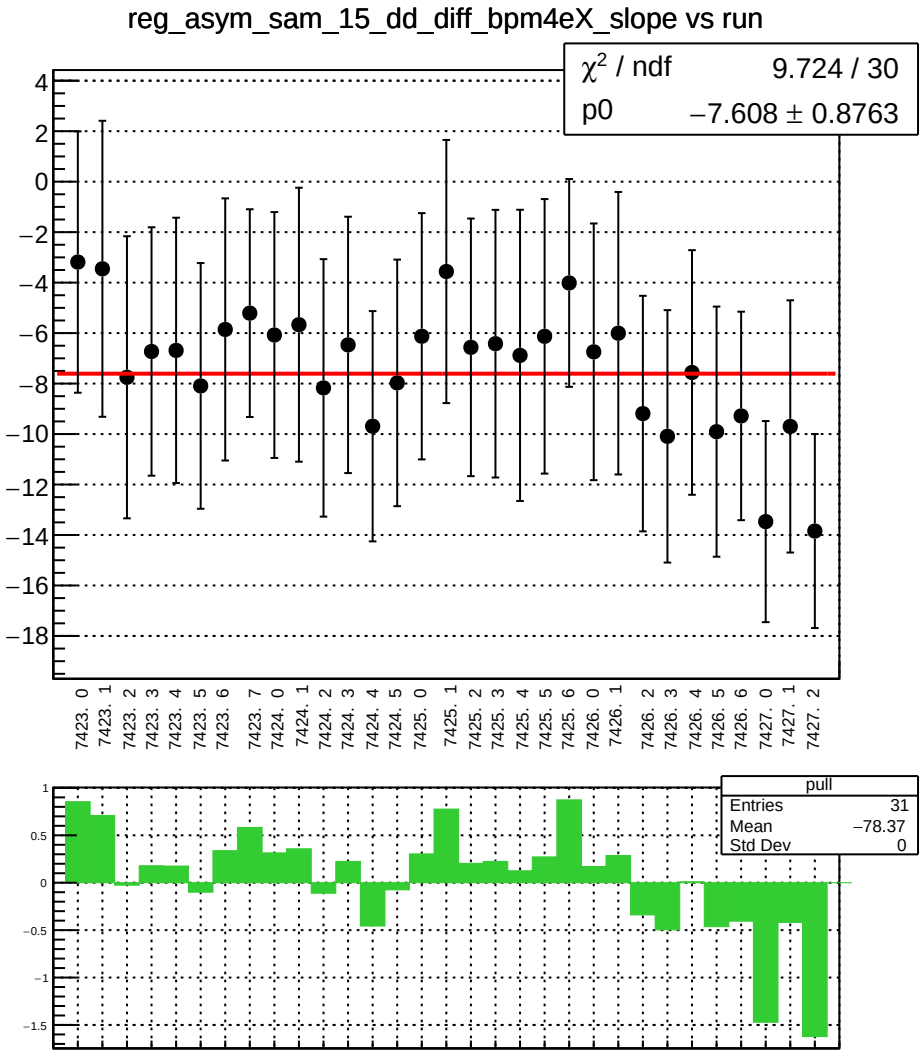

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.37 / 30
p0 55.27 ± 0.5456
62
60
58
56
54
52
50
48
46
44
42
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1628
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 31
Mean 0.002006
Std Dev 0.9396
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

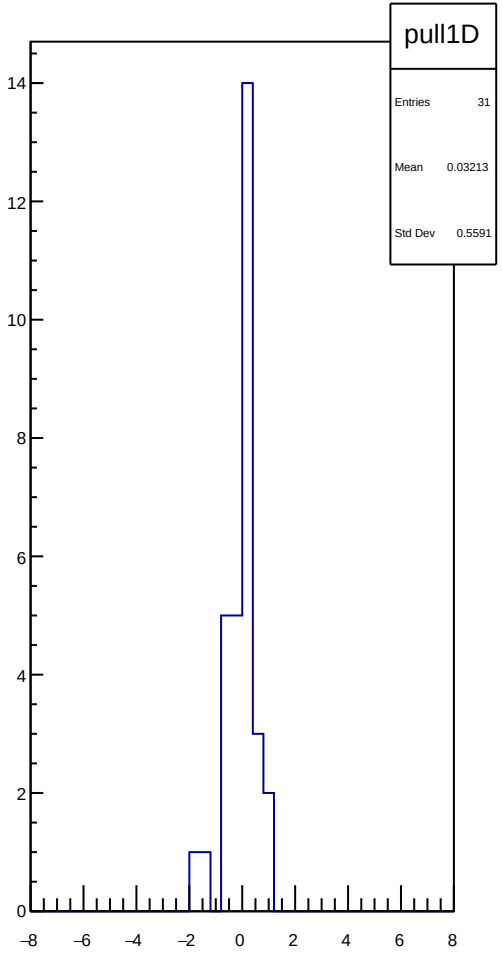

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 6.248 / 30
p0 0.4226 ± 0.02344
0.7
0.6
0.5
0.4
0.3
0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −248
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 31
Mean −0.00401
Std Dev 0.4489
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

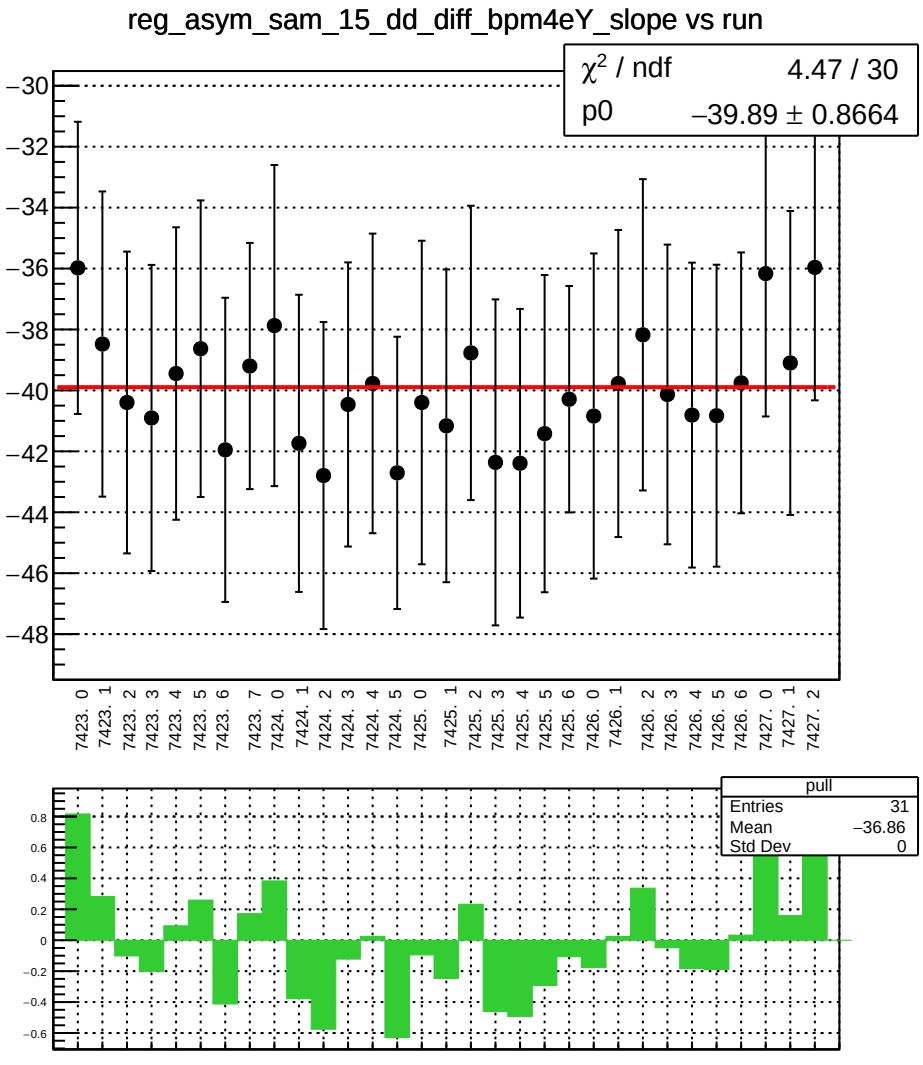

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 8.69 / 30
p0 0.7208 ± 0.8476
10
5
0
−5
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −70.53
Std Dev 0
1.5
1
0.5
0
−0.5
−1

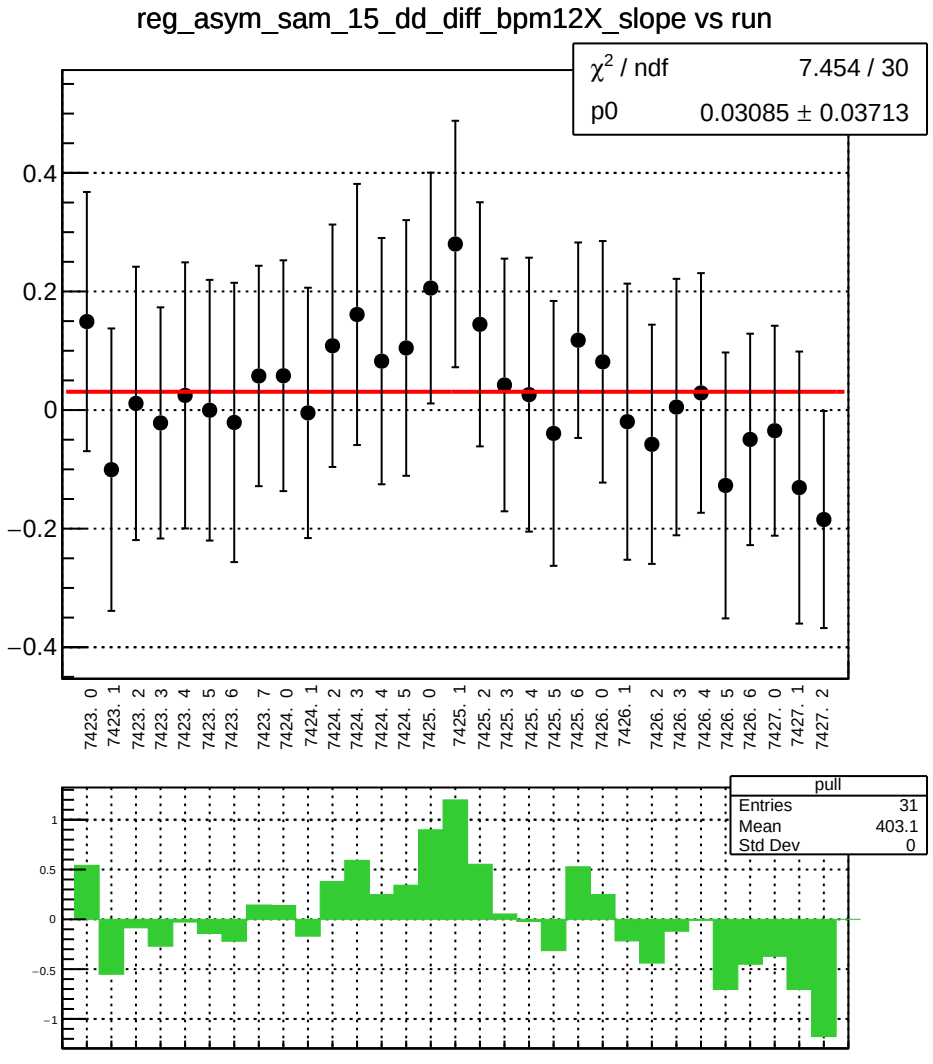

pull1D
Entries 31
Mean −0.03051
Std Dev 0.5286
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

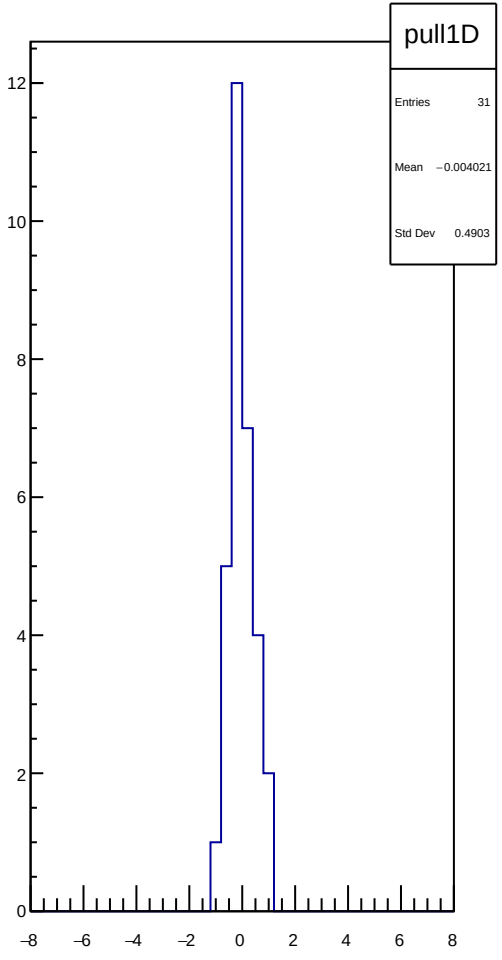

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.952 / 30
p0 −62.36 ± 0.8159
pull
Entries 31
Mean 4.774
Std Dev 37.14
pull1D
Entries 31
Mean −0.00675
Std Dev 0.357

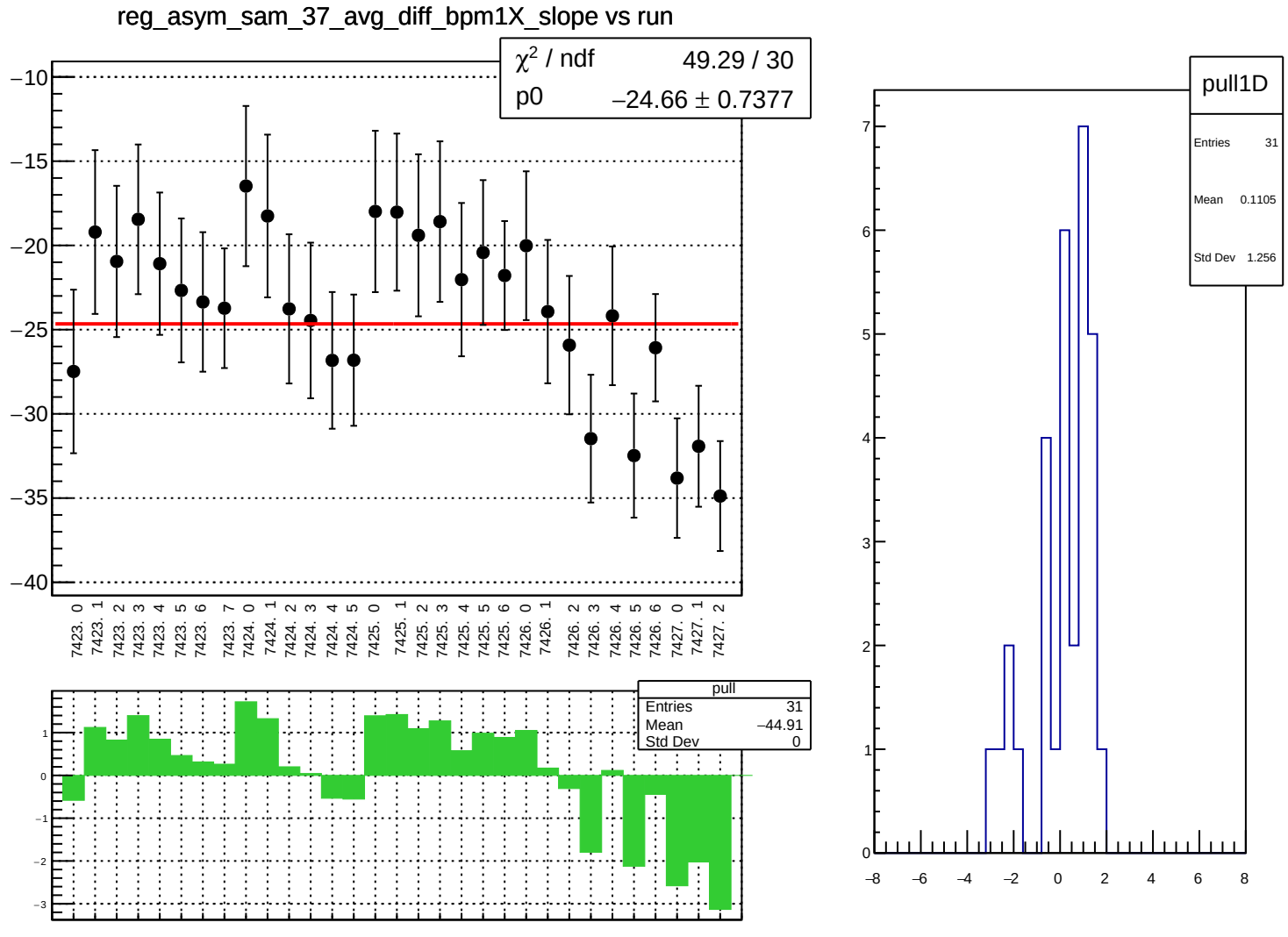

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.724 / 30
p0 −7.608 ± 0.8763
pull
Entries 31
Mean −78.37
Std Dev 0

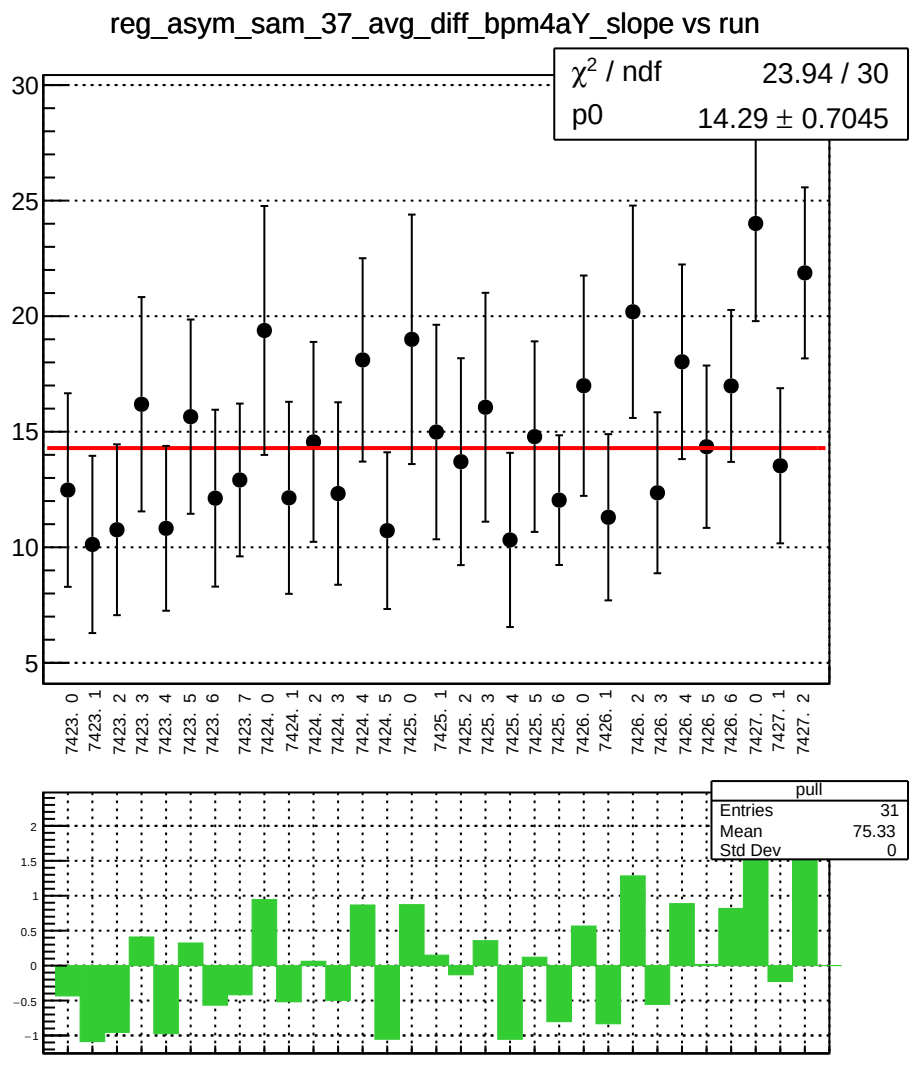

pull1D
Entries 31
Mean 0.03213
Std Dev 0.5591

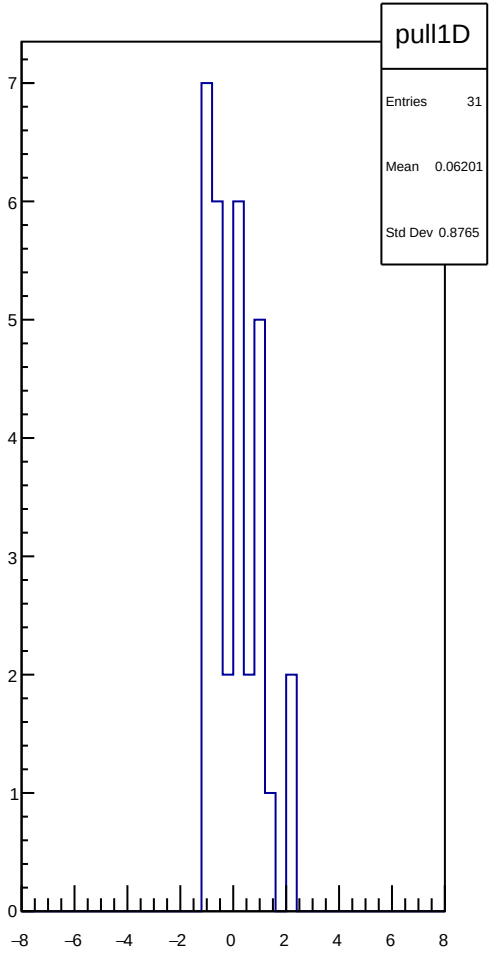

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.47 / 30
p0 −39.89 ± 0.8664
−30
−32
−34
−36
−38
−40
−42
−44
−46
−48
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −36.86
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean −0.006479
Std Dev 0.3797
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

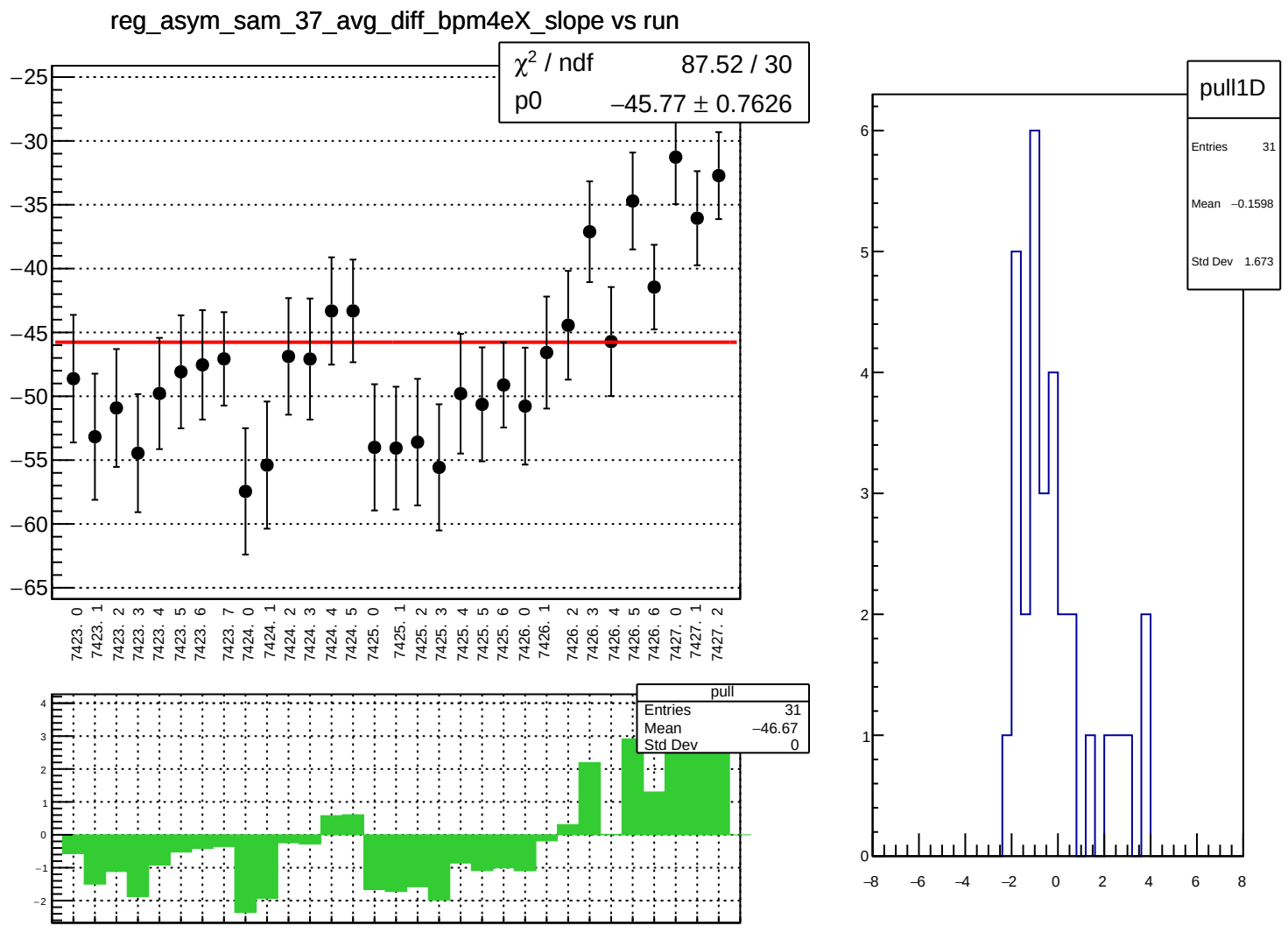

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 7.454 / 30
p0 0.03085 ± 0.03713
0.4
0.2
0
−0.2
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 403.1
Std Dev 0
1
0.5
0
−0.5
−1

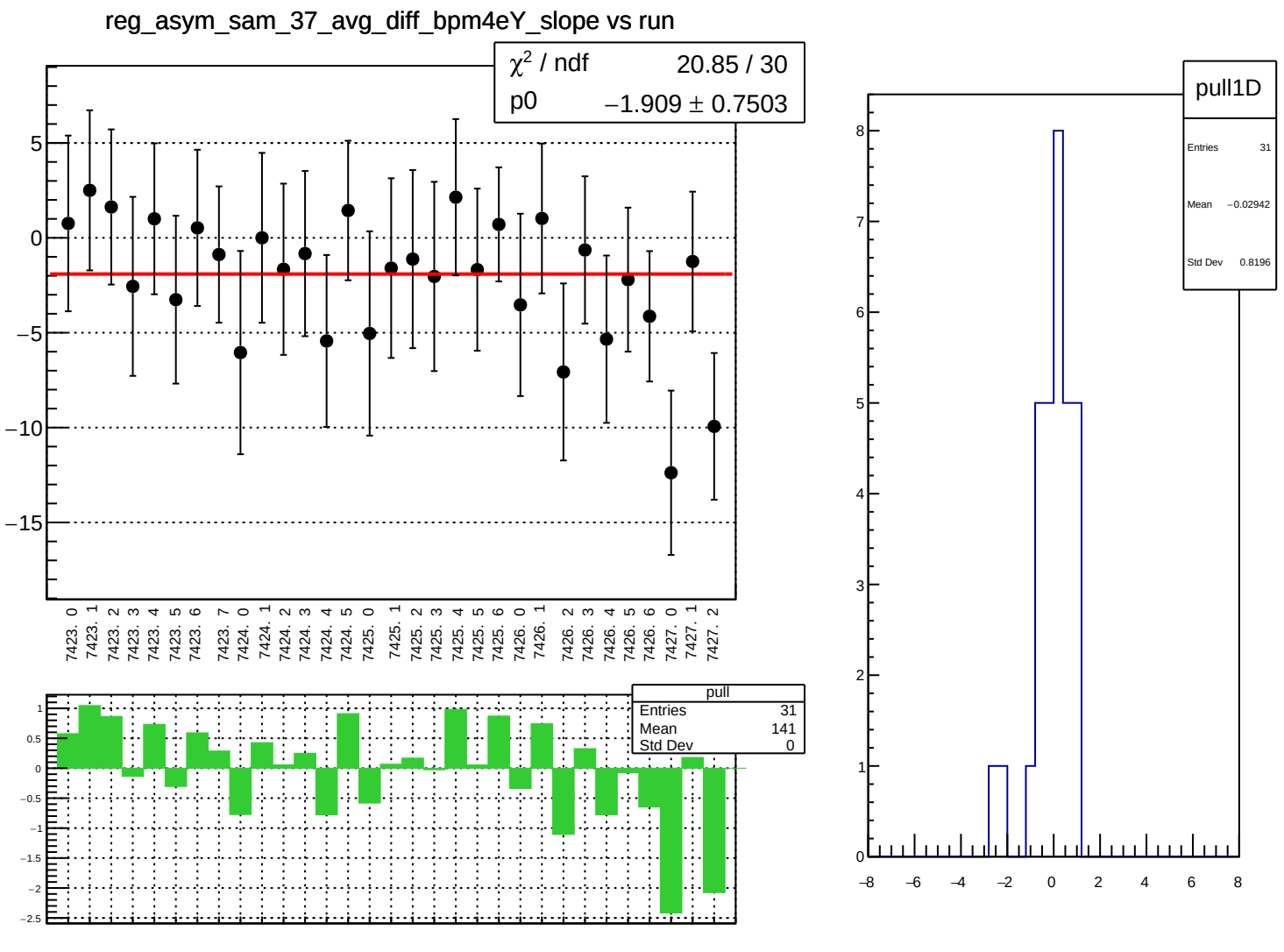

pull1D
Entries 31
Mean −0.004021
Std Dev 0.4903
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

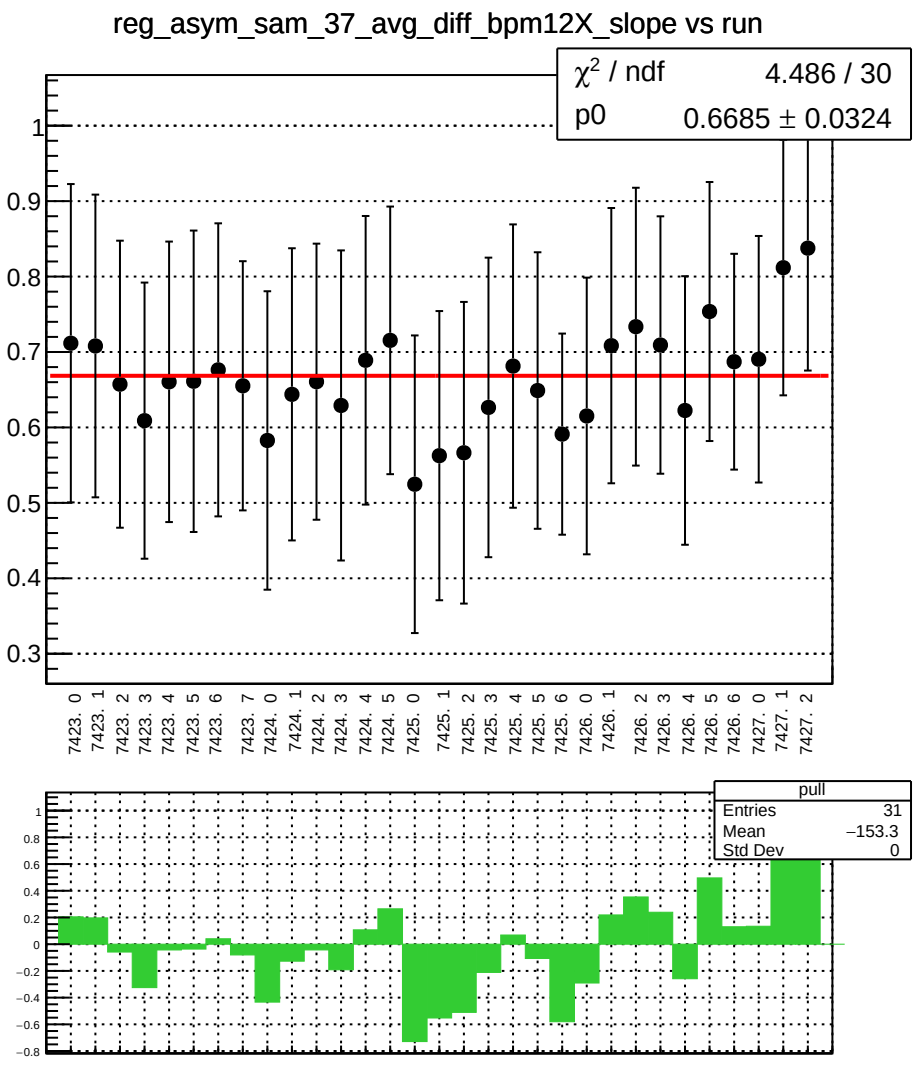

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 49.29 / 30
p0 −24.66 ± 0.7377
−10
−15
−20
−25
−30
−35
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −44.91
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.1105
Std Dev 1.256
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

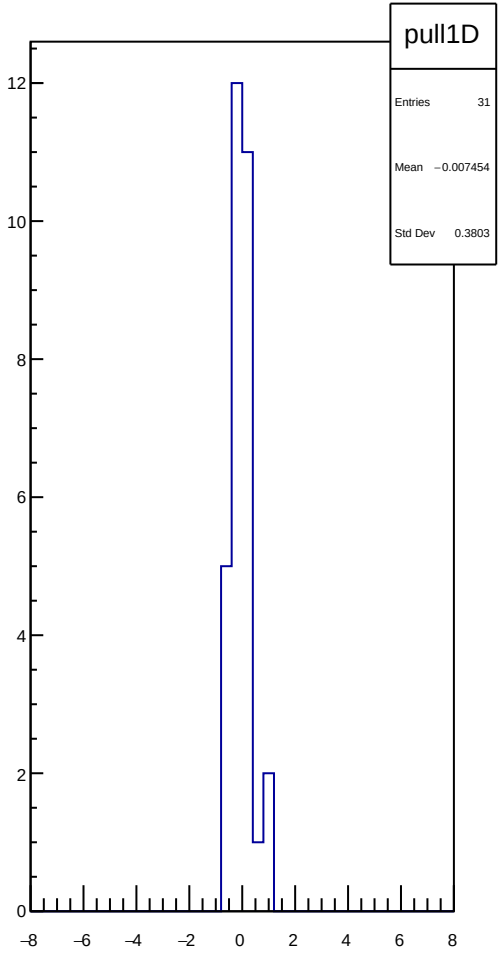

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.94 / 30
p0 14.29 ± 0.7045
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 75.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

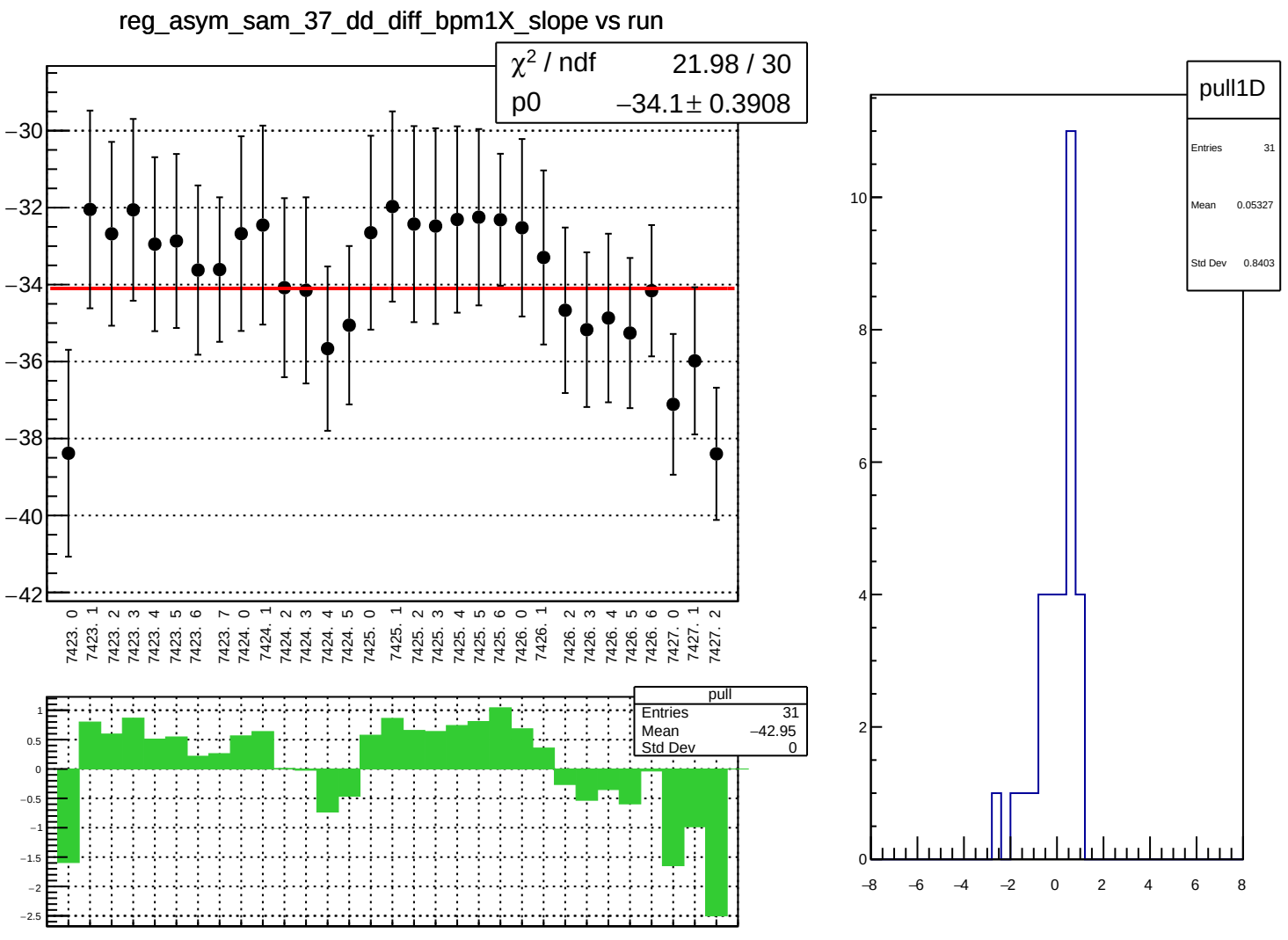

pull1D
Entries 31
Mean 0.06201
Std Dev 0.8765
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

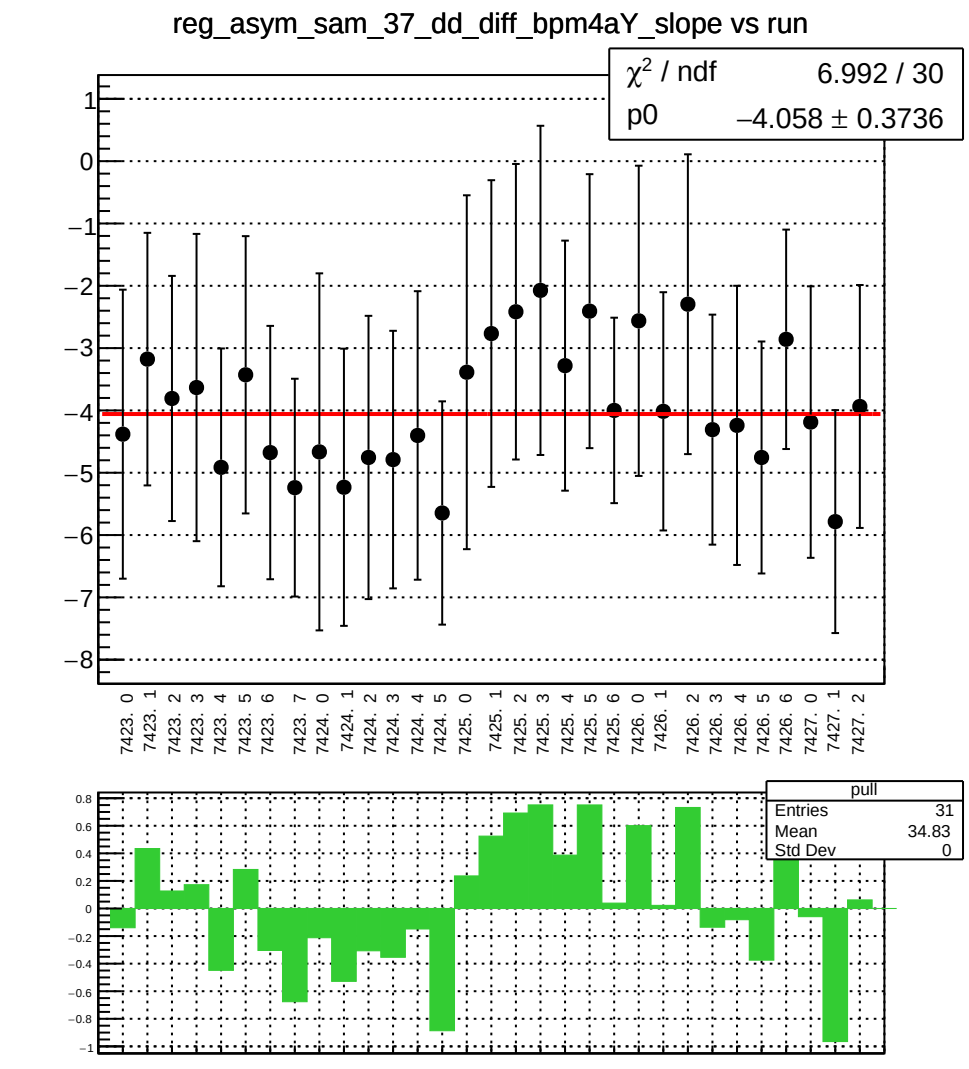

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 87.52 / 30
p0 −45.77 ± 0.7626
pull
Entries 31
Mean −46.67
Std Dev 0
pull1D
Entries 31
Mean −0.1598
Std Dev 1.673

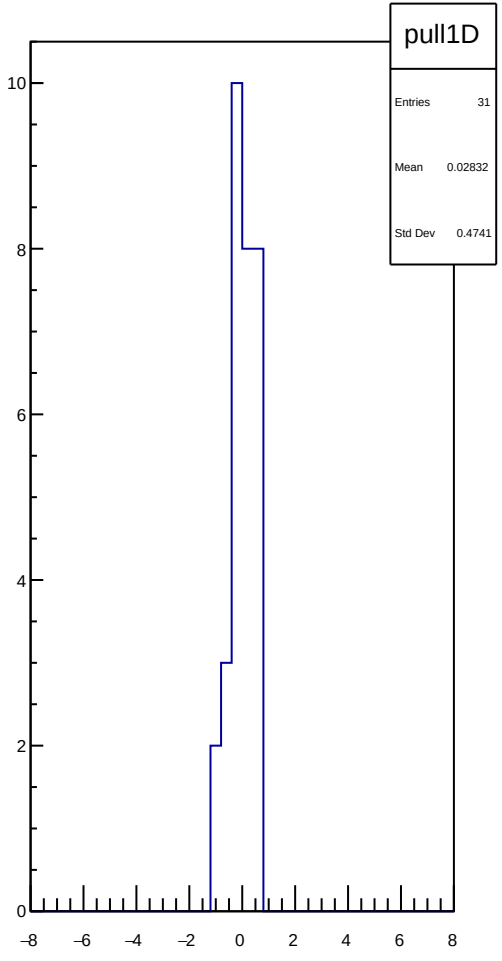

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.85 / 30
p0 −1.909 ± 0.7503
pull
Entries 31
Mean 141
Std Dev 0
pull1D
Entries 31
Mean −0.02942
Std Dev 0.8196

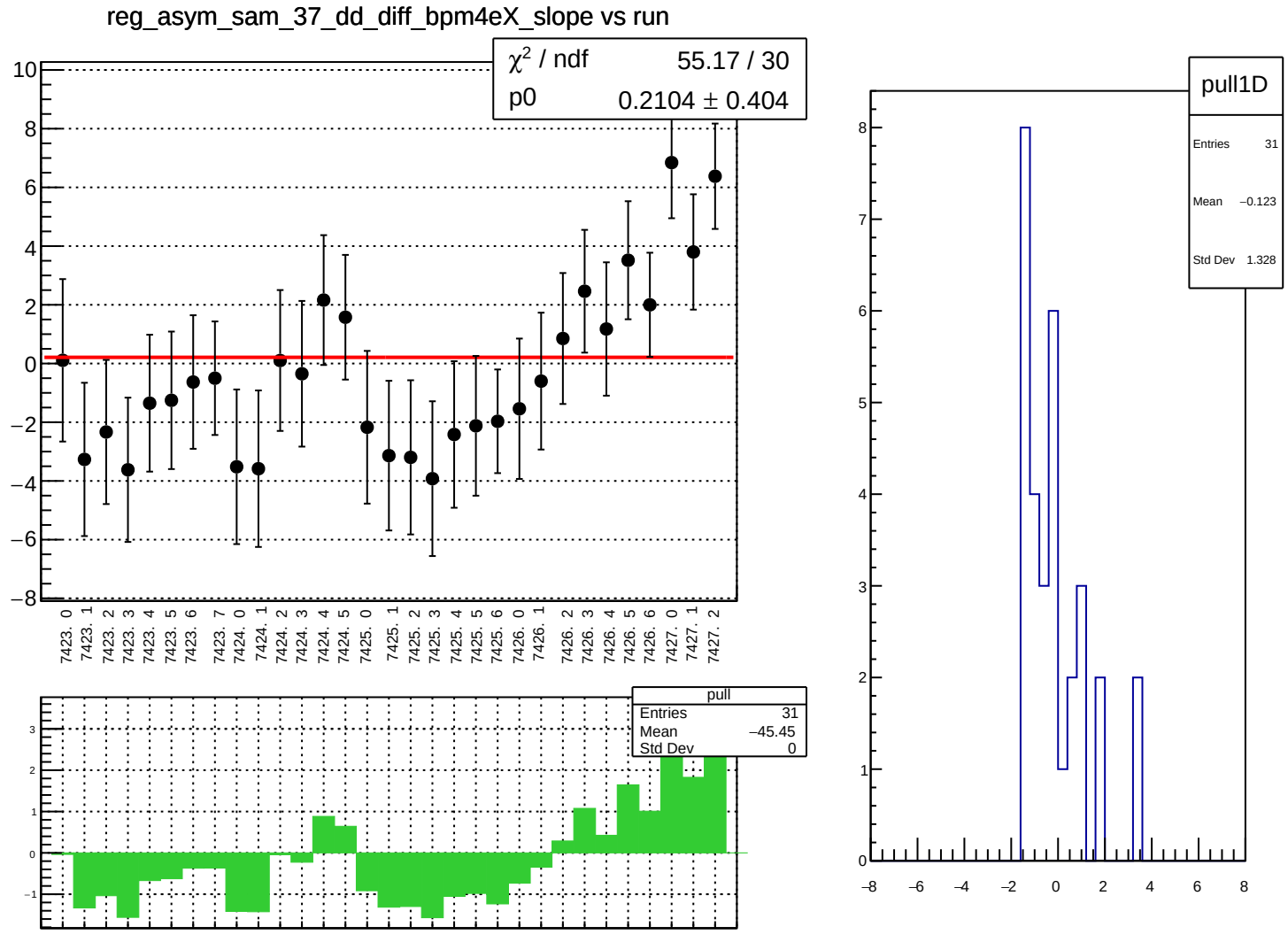

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.486 / 30
p0 0.6685 ± 0.0324
pull
Entries 31
Mean −153.3
Std Dev 0

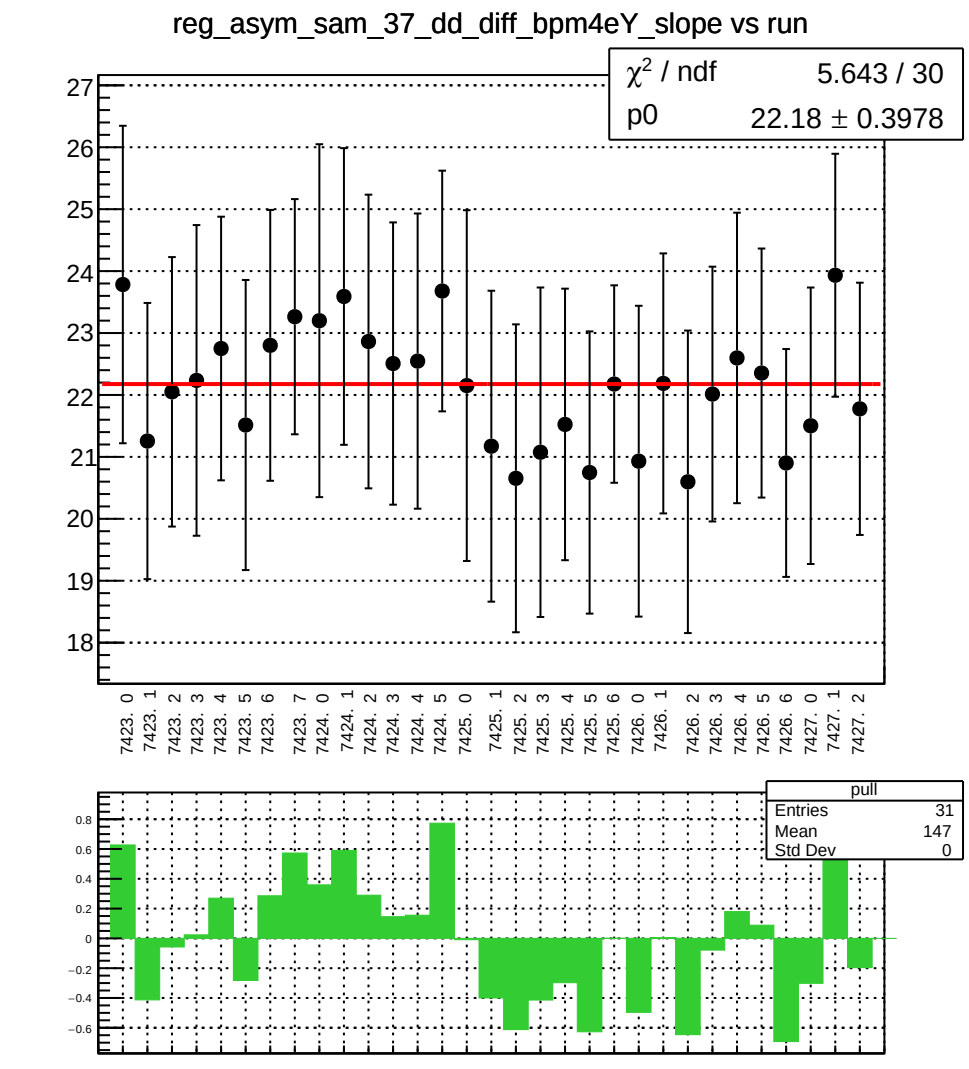

pull1D
Entries 31
Mean −0.007454
Std Dev 0.3803

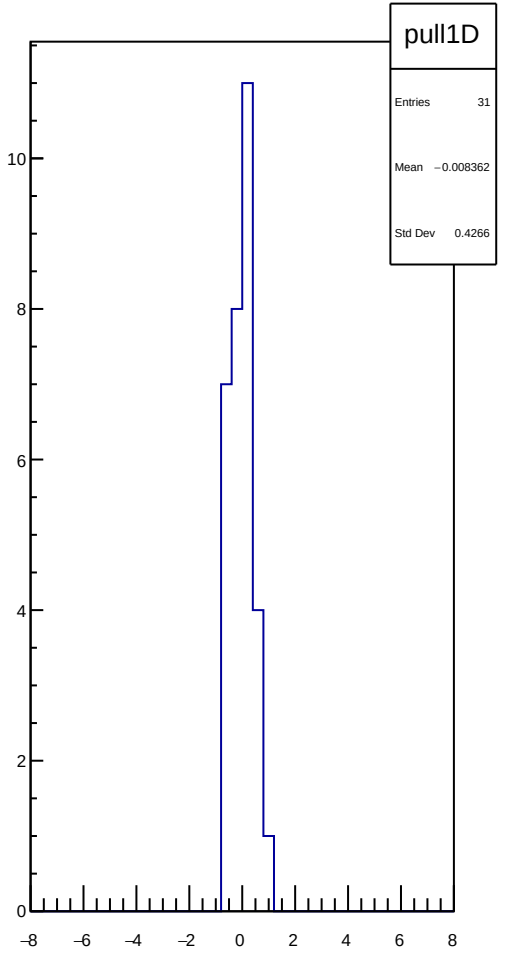

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 21.98 / 30
p0 −34.1 ± 0.3908
−30
−32
−34
−36
−38
−40
−42
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −42.95
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.05327
Std Dev 0.8403
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

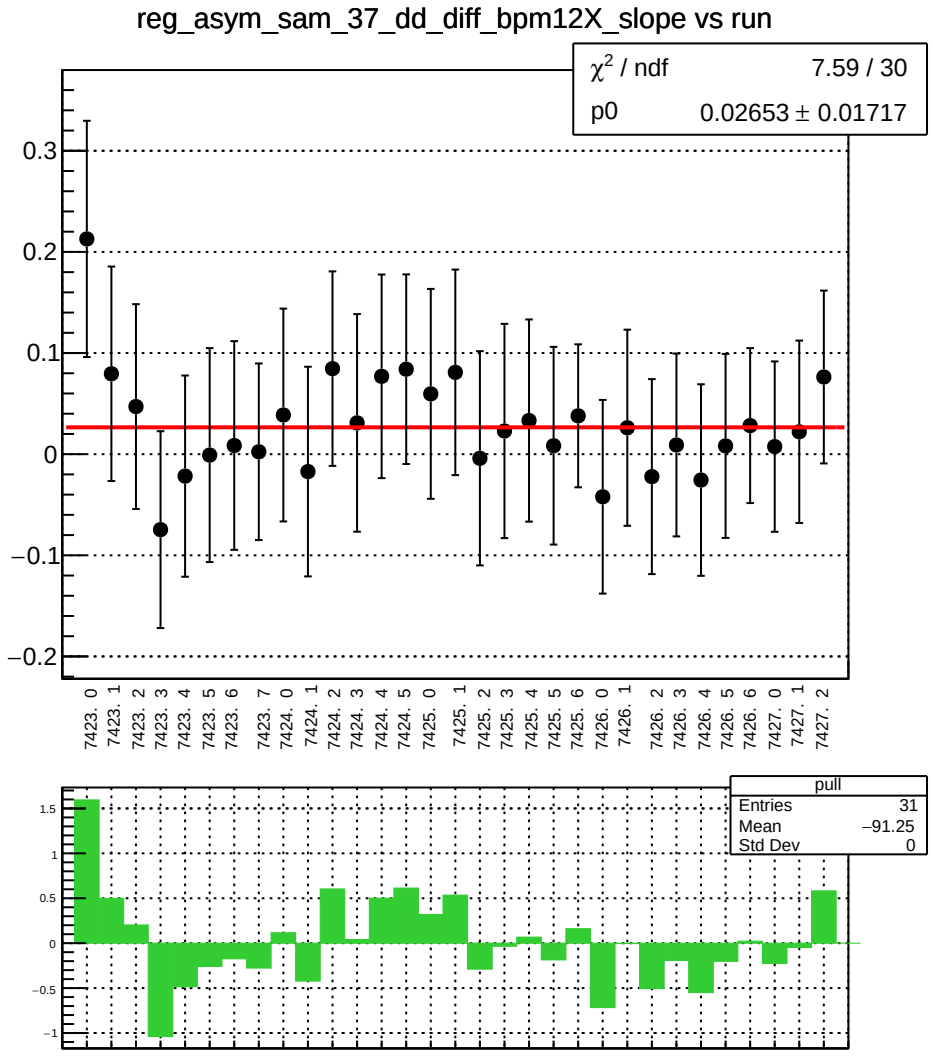

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.992 / 30
p0 −4.058 ± 0.3736
pull
Entries 31
Mean 34.83
Std Dev 0

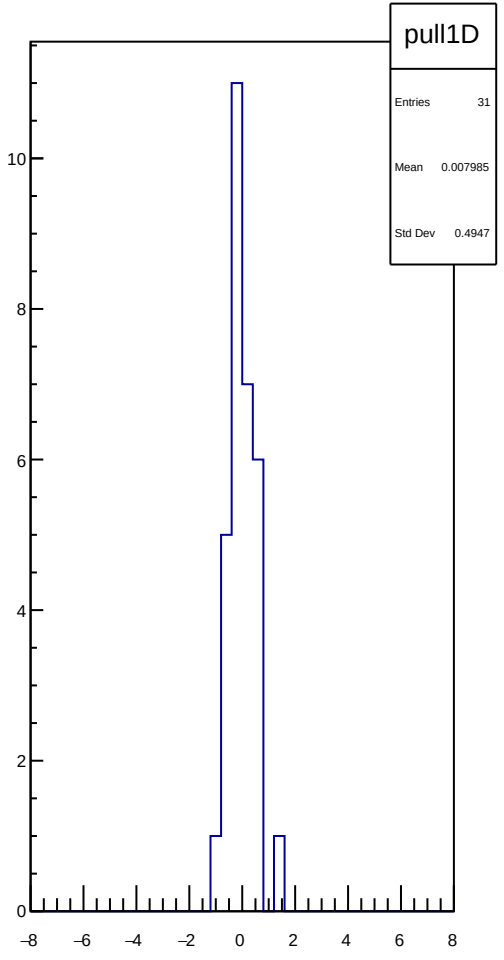

pull1D
Entries 31
Mean 0.02832
Std Dev 0.4741

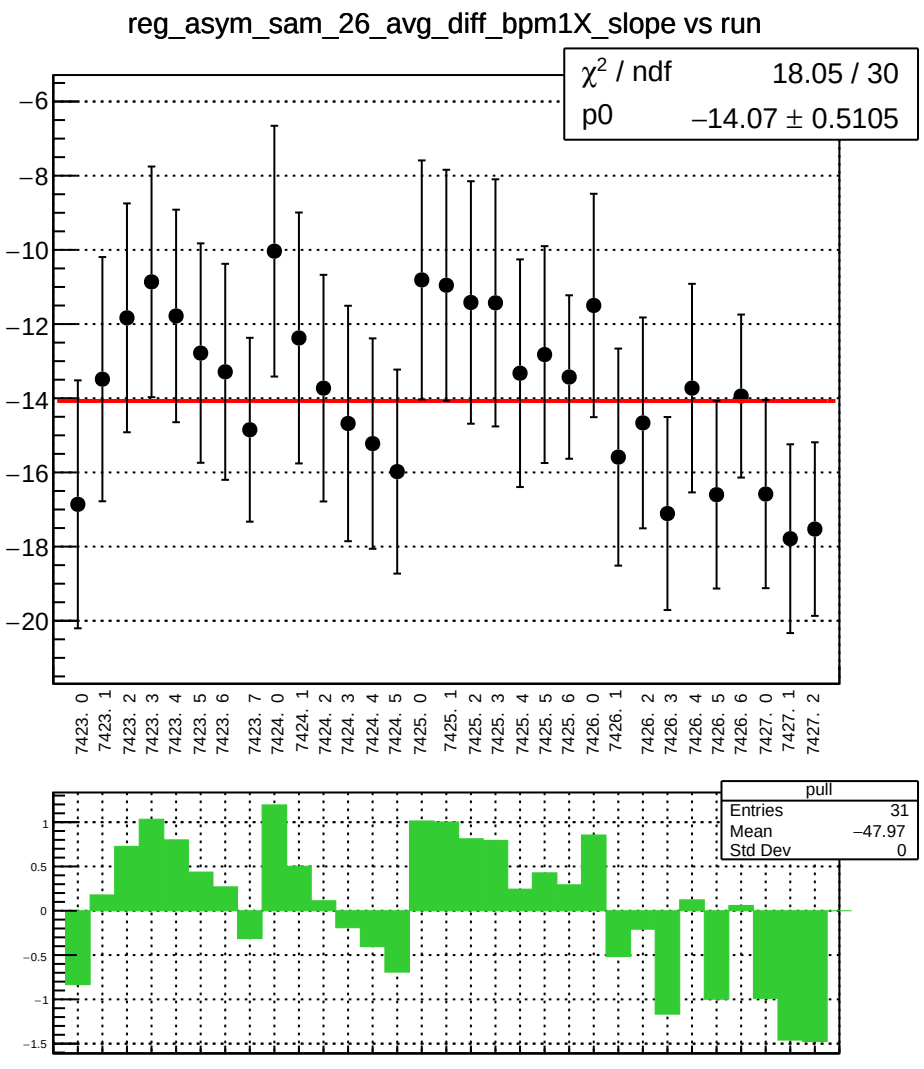

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.17 / 30
p0 0.2104 ± 0.404
pull
Entries 31
Mean −45.45
Std Dev 0
pull1D
Entries 31
Mean −0.123
Std Dev 1.328


reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.643 / 30
p0 22.18 ± 0.3978
pull
Entries 31
Mean 147
Std Dev 0

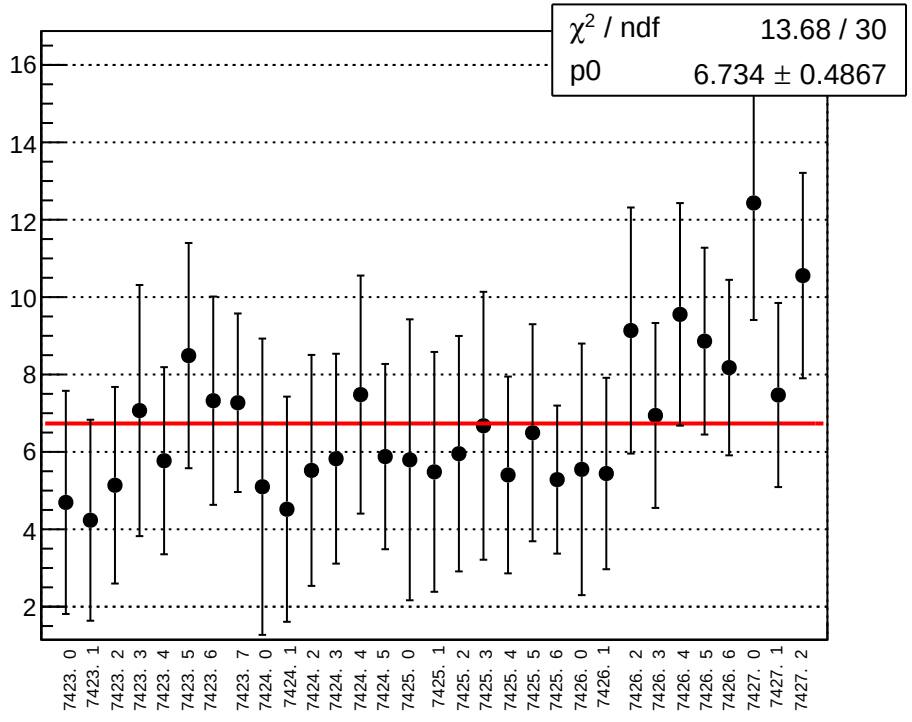

pull1D
Entries 31
Mean −0.008362
Std Dev 0.4266

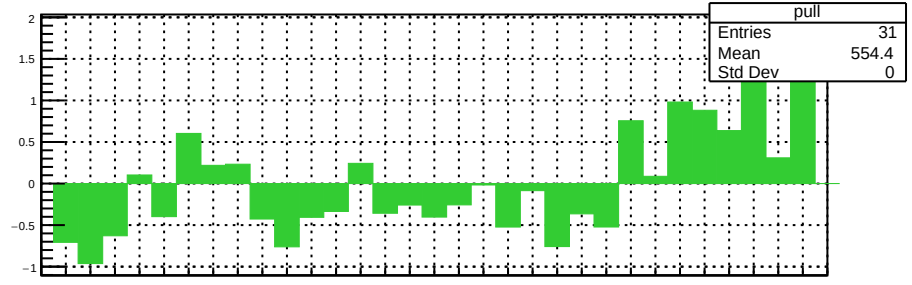

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.59 / 30
p0 0.02653 ± 0.01717
0.3
0.2
0.1
0
−0.1
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −91.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1

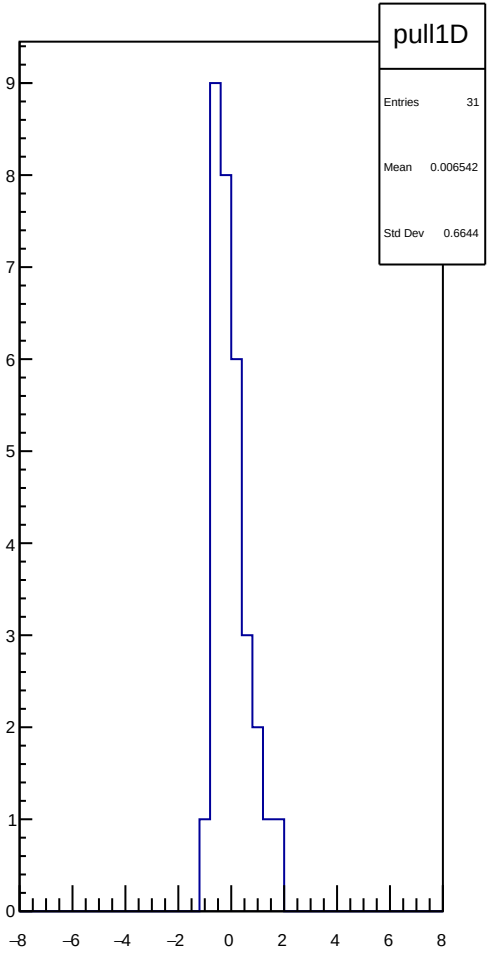

pull1D
Entries 31
Mean 0.007985
Std Dev 0.4947
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

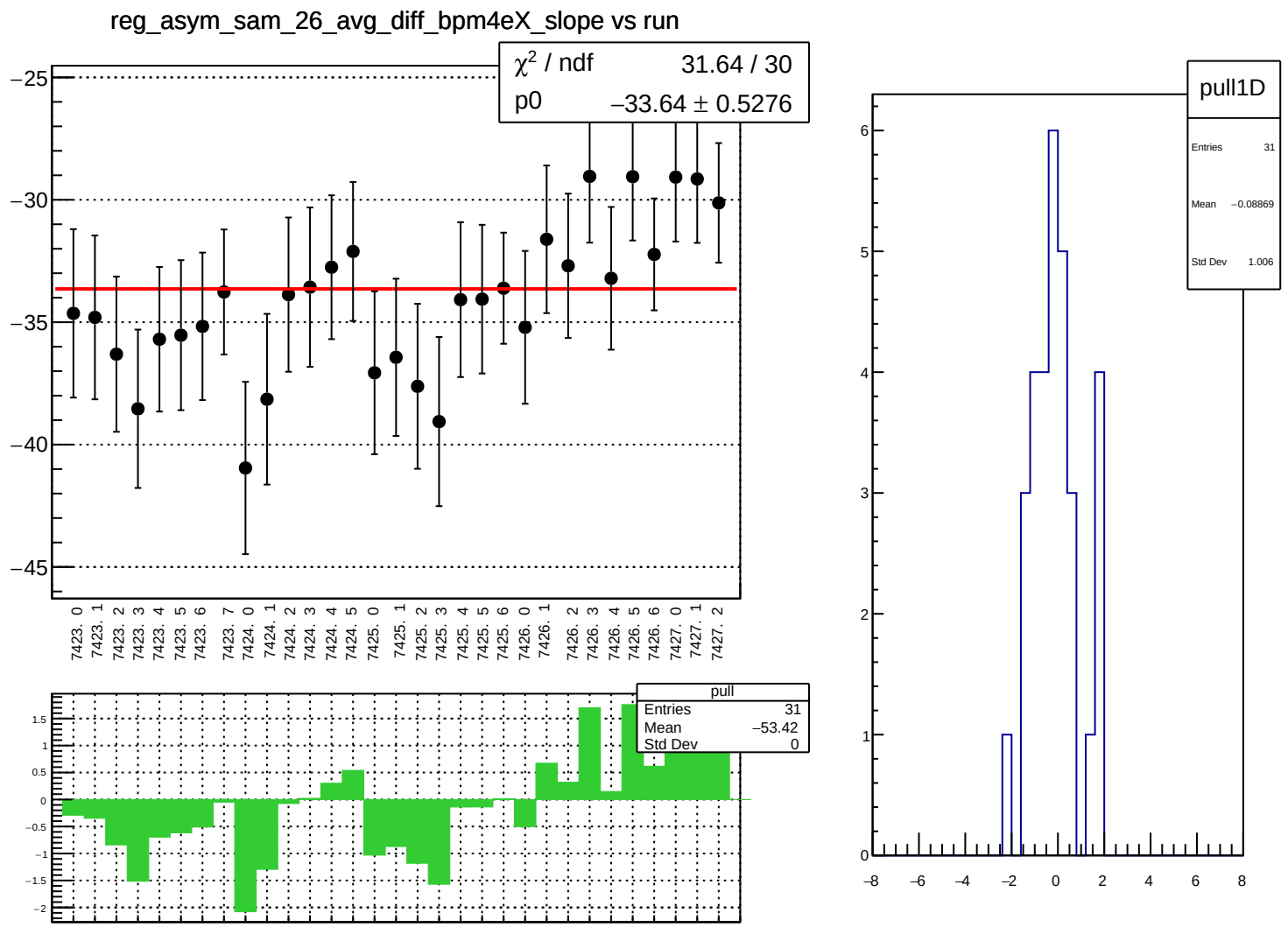

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 18.05 / 30
p0 −14.07 ± 0.5105
pull
Entries 31
Mean −47.97
Std Dev 0
pull1D
Entries 31
Mean 0.05251
Std Dev 0.7612

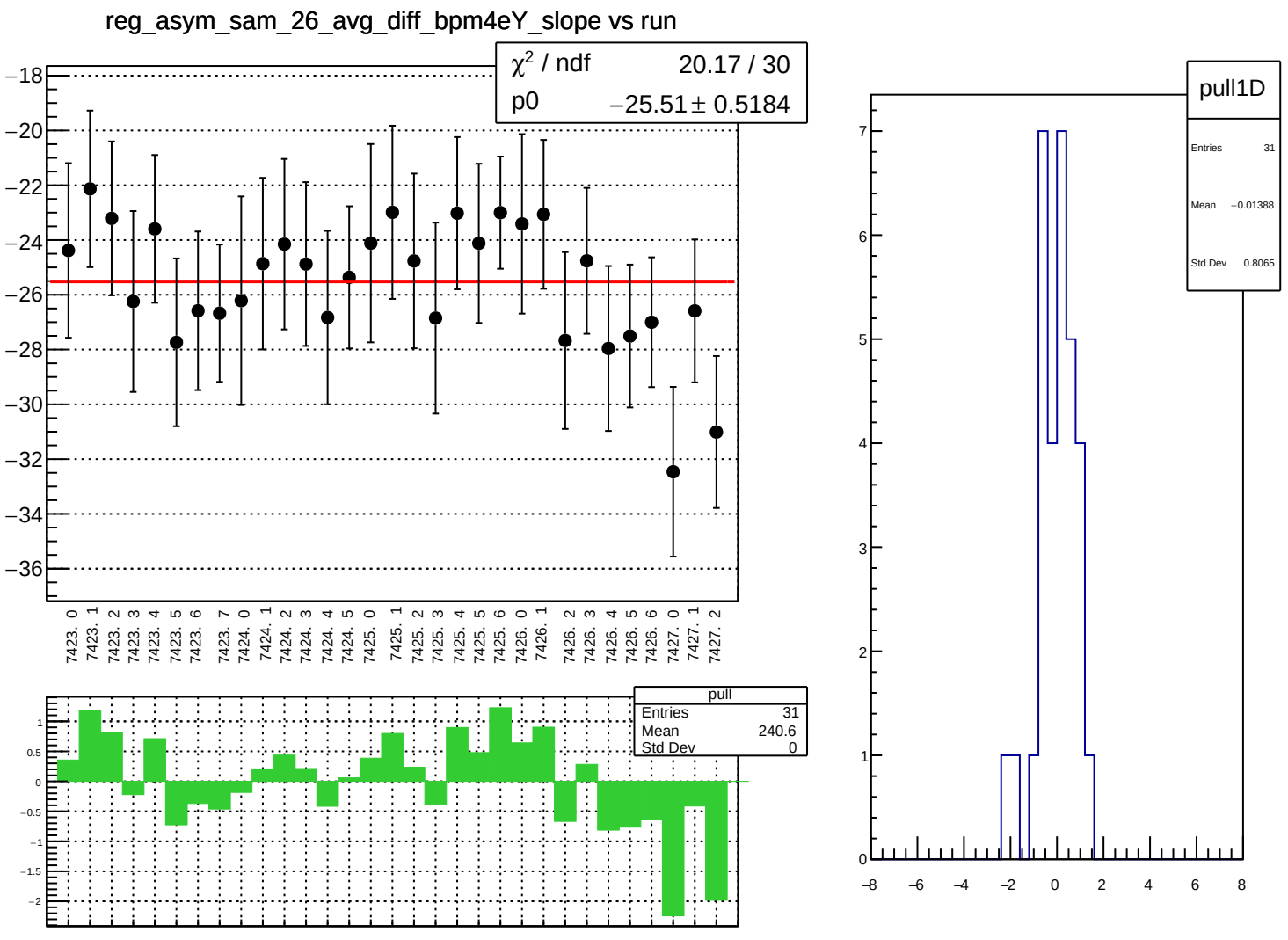
reg_asym_sam_26_avg_diff_bpm4aY_slope vs run

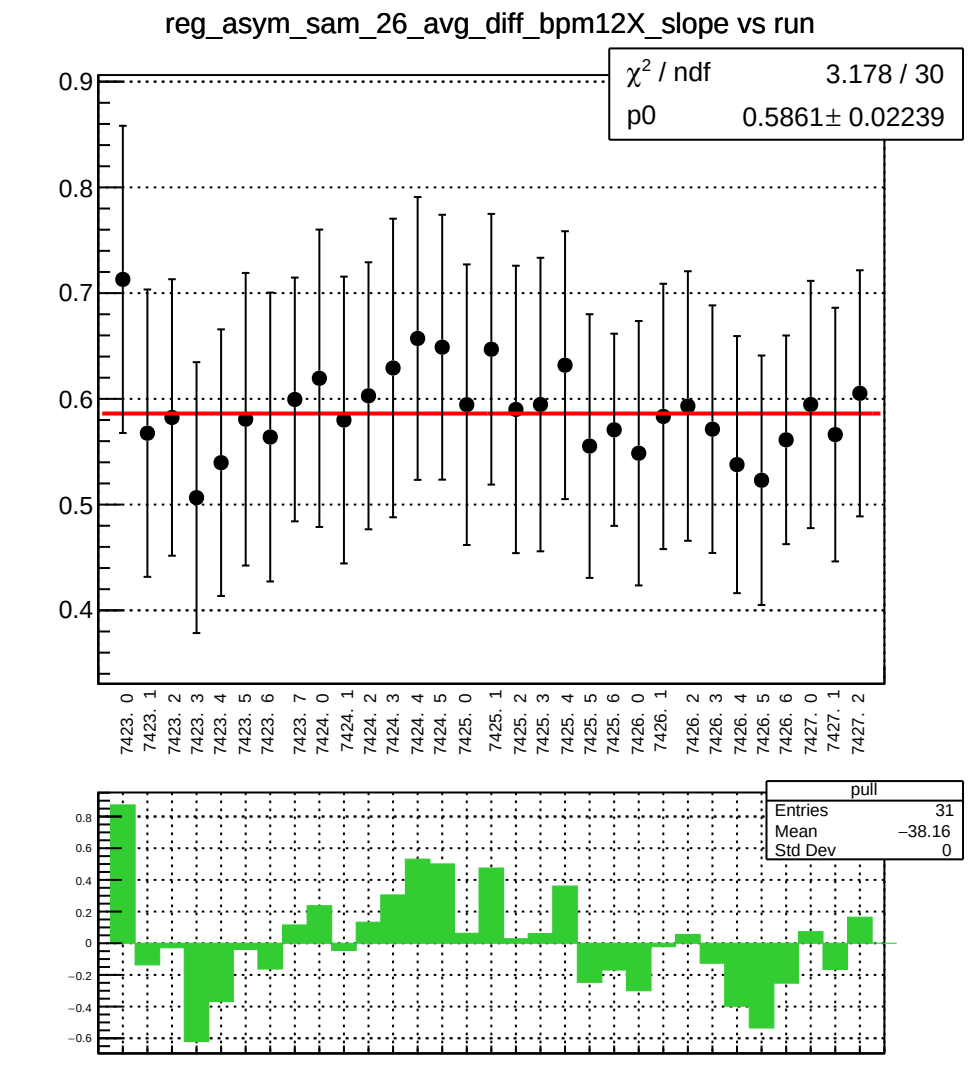


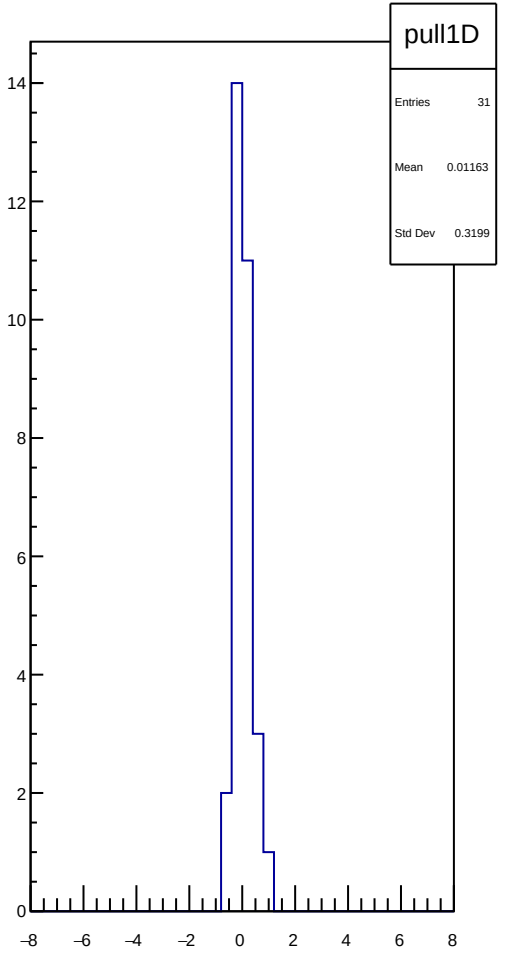


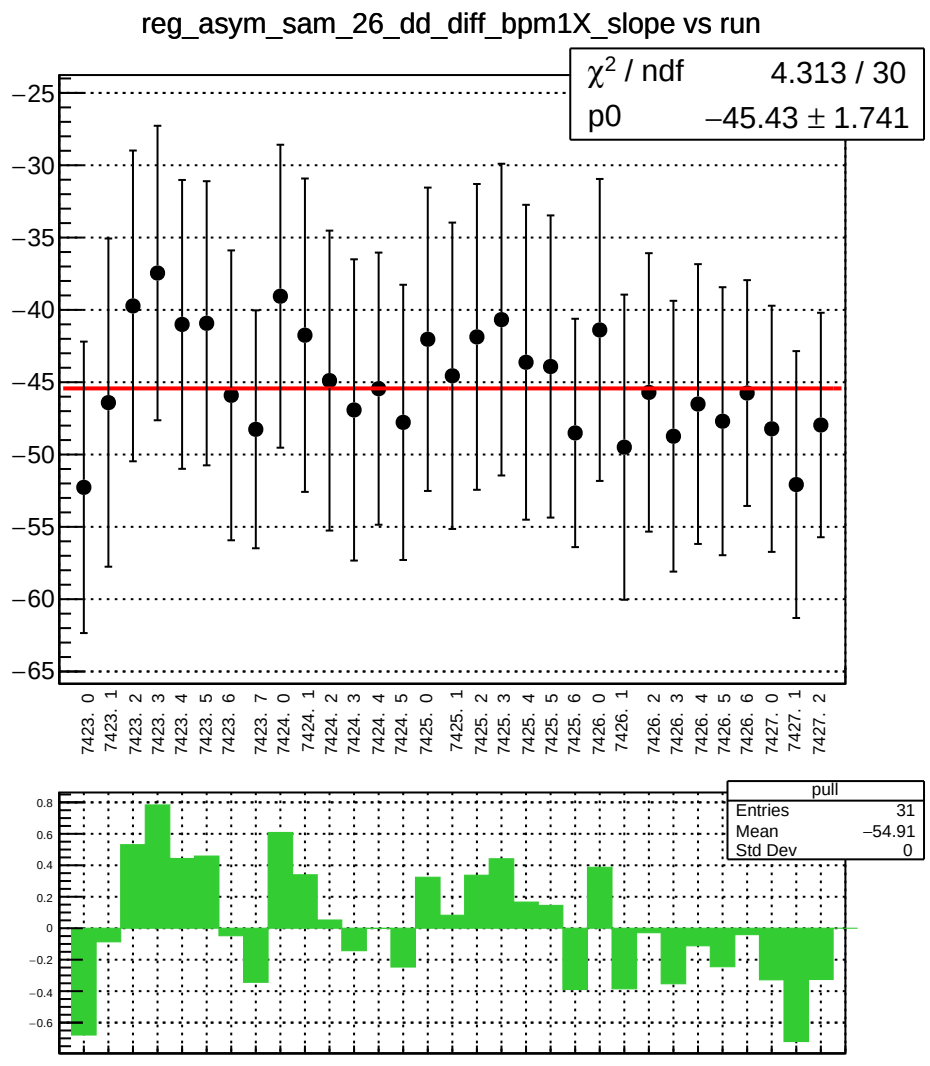


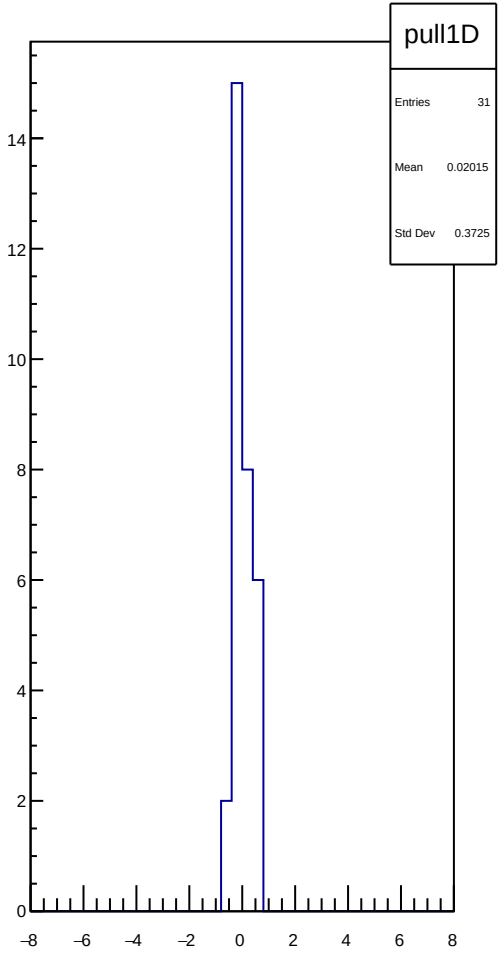

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.64 / 30
p0 −33.64 ± 0.5276
−25
−30
−35
−40
−45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −53.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.08869
Std Dev 1.006
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

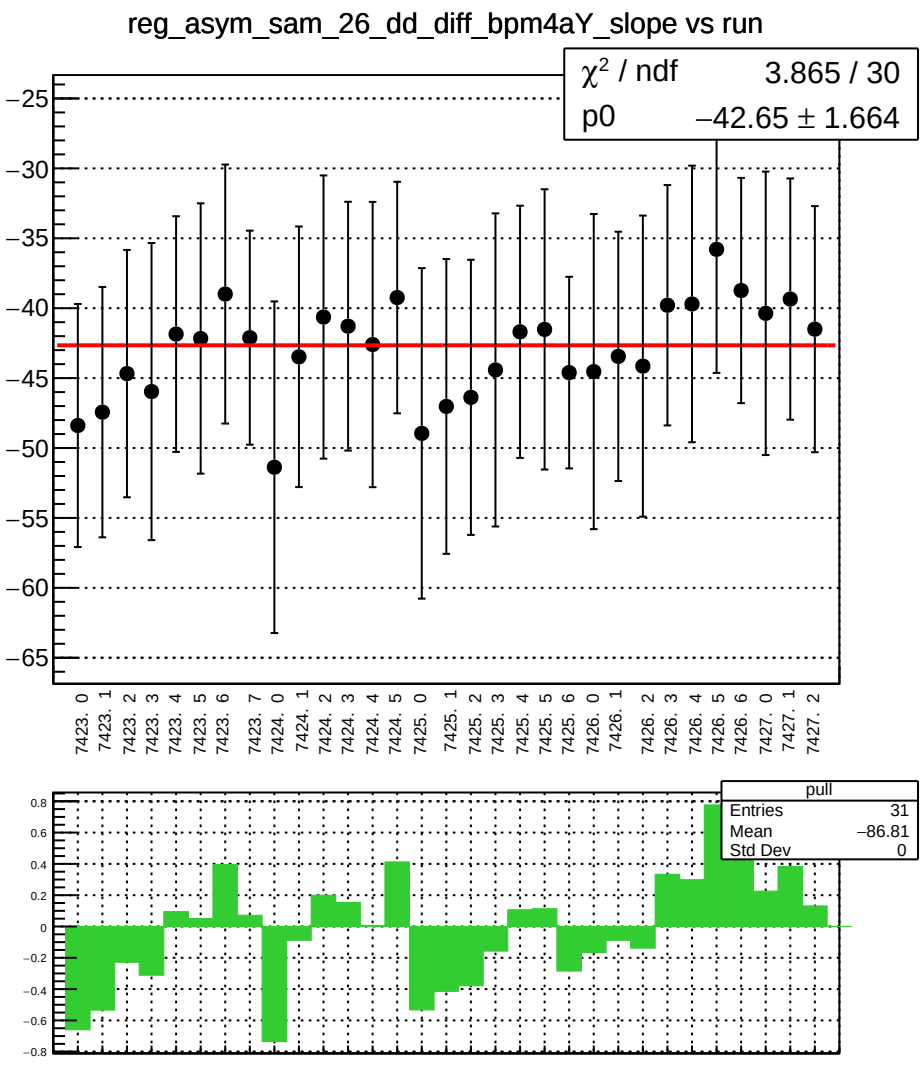

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.17 / 30
p0 −25.51 ± 0.5184
pull
Entries 31
Mean 240.6
Std Dev 0
pull1D
Entries 31
Mean −0.01388
Std Dev 0.8065

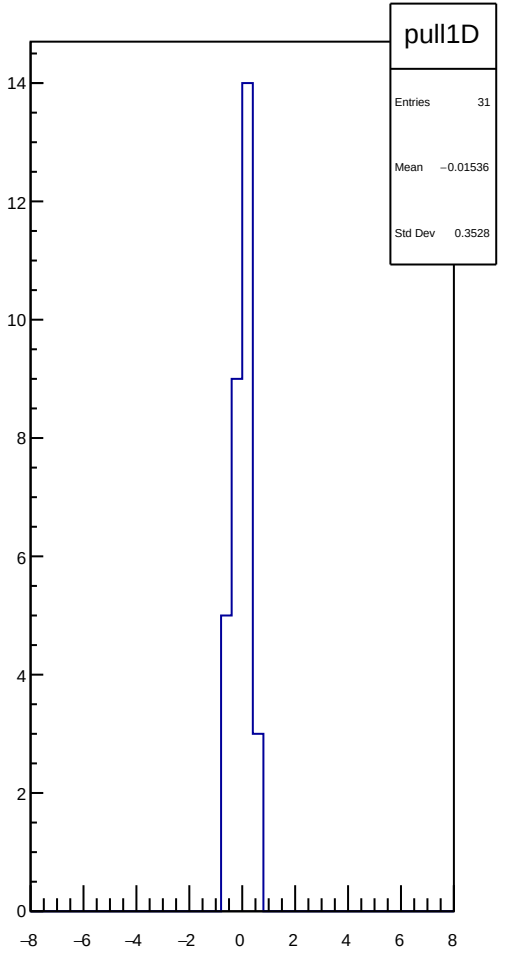

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 3.178 / 30
p0 0.5861± 0.02239
0.9
0.8
0.7
0.6
0.5
0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −38.16
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

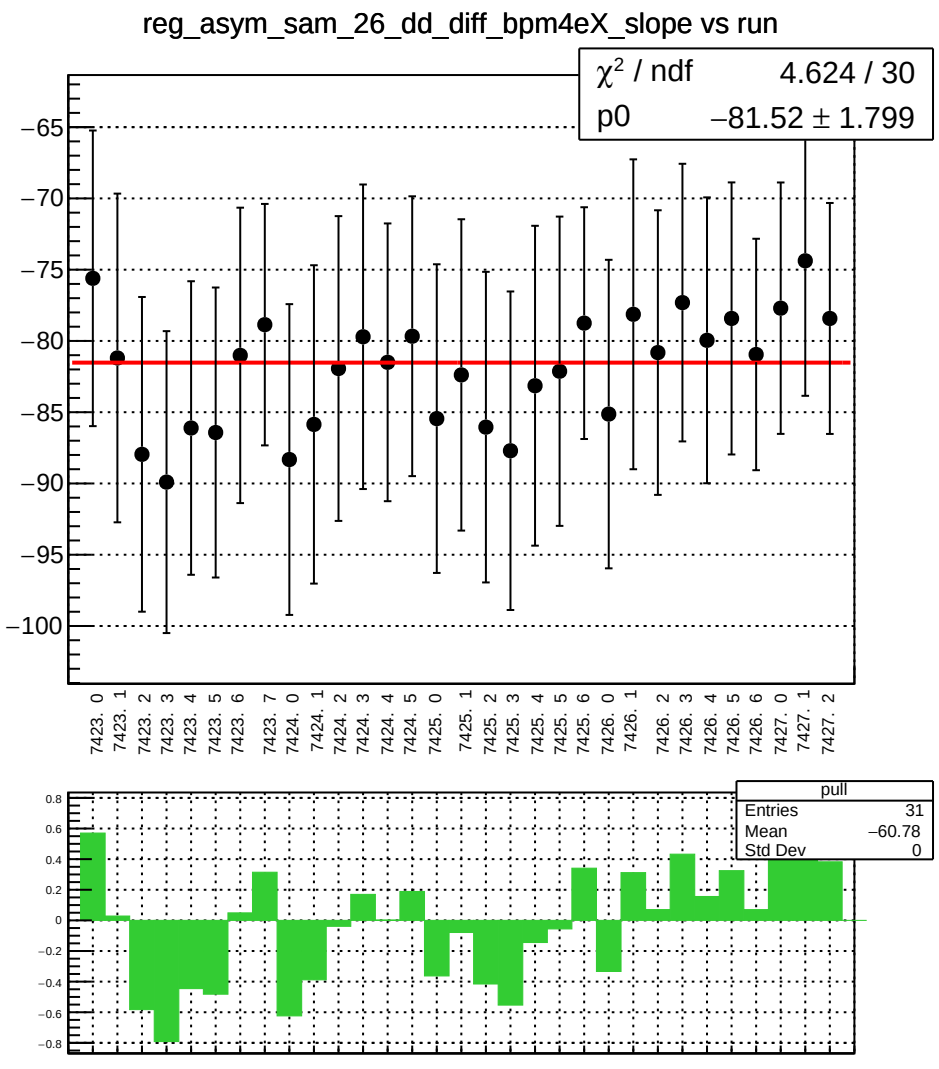

pull1D
Entries 31
Mean 0.01163
Std Dev 0.3199
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

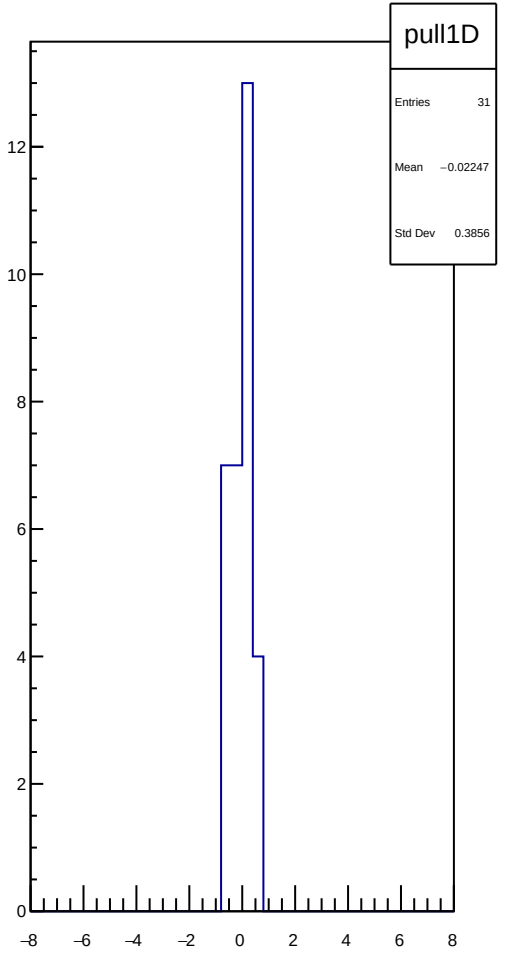

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.313 / 30
p0 −45.43 ± 1.741
pull
Entries 31
Mean −54.91
Std Dev 0

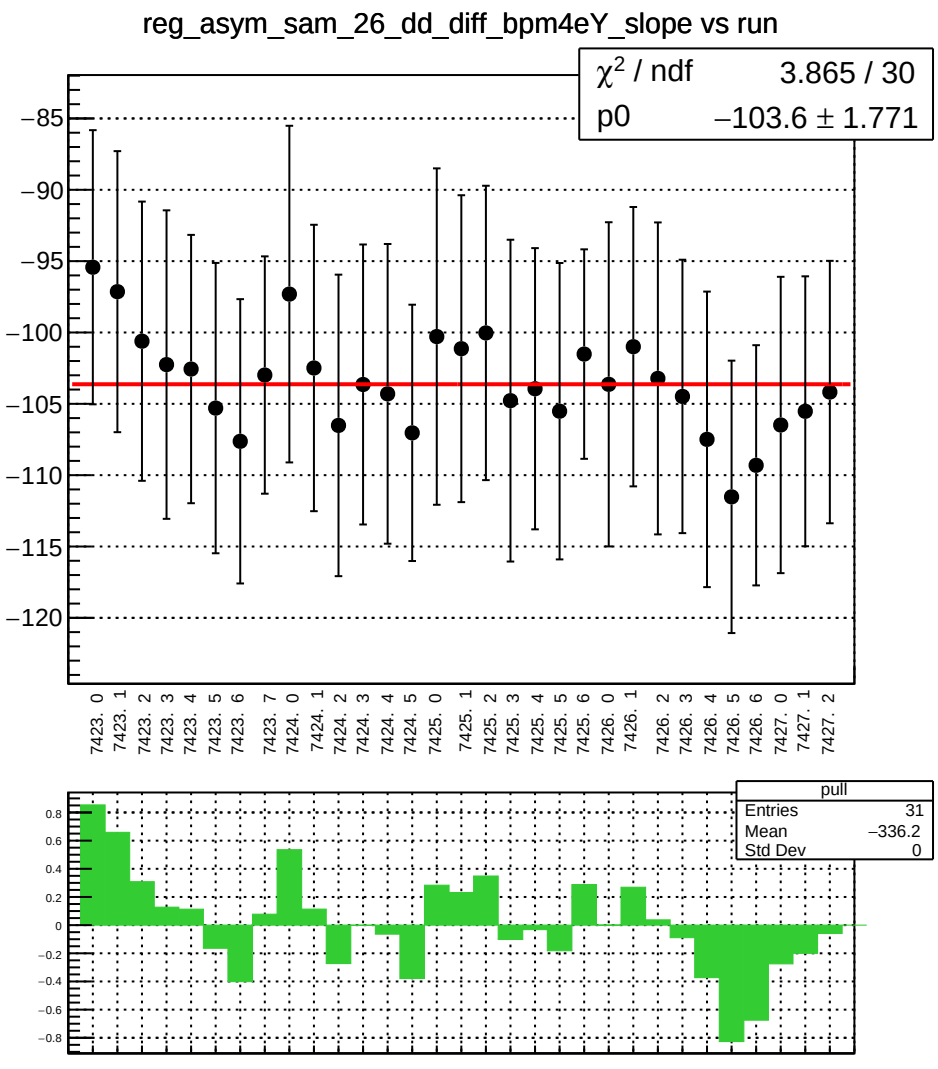

pull1D
Entries 31
Mean 0.02015
Std Dev 0.3725

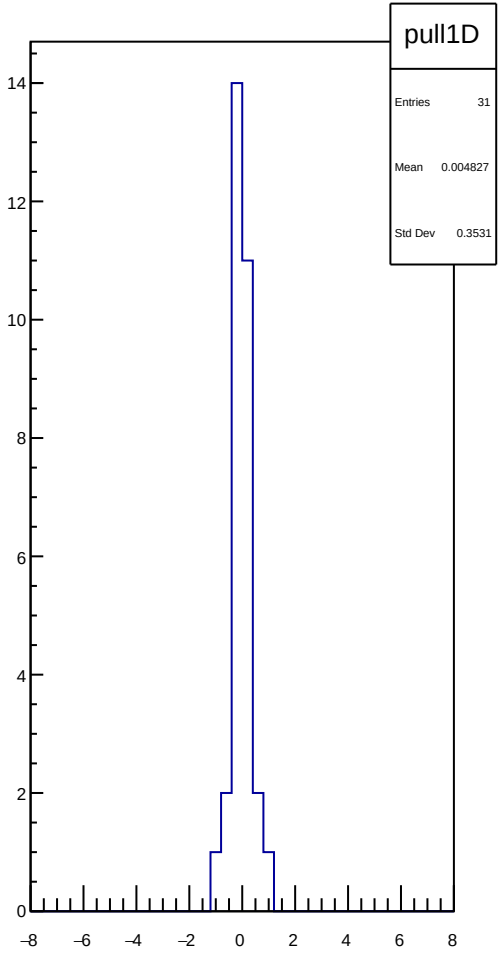

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.865 / 30
p0 −42.65 ± 1.664
−25
−30
−35
−40
−45
−50
−55
−60
−65
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −86.81
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

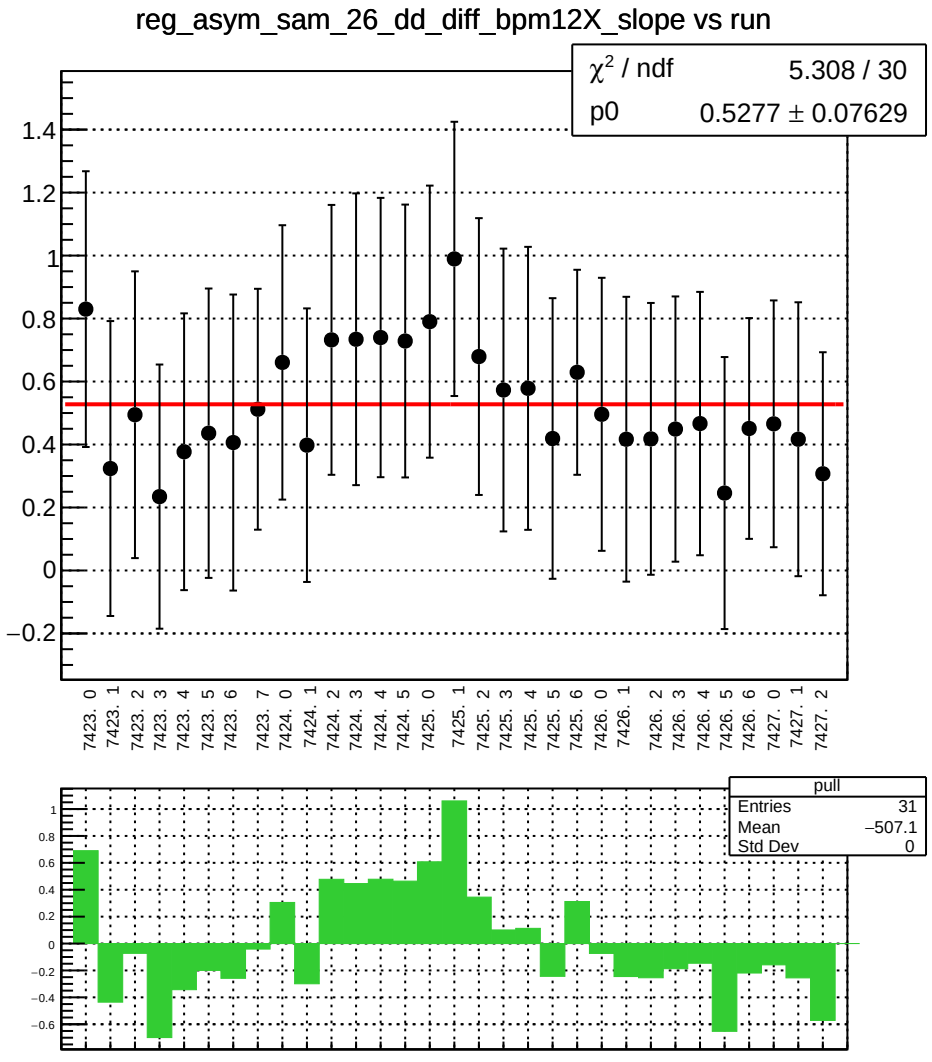

pull1D
Entries 31
Mean −0.01536
Std Dev 0.3528
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

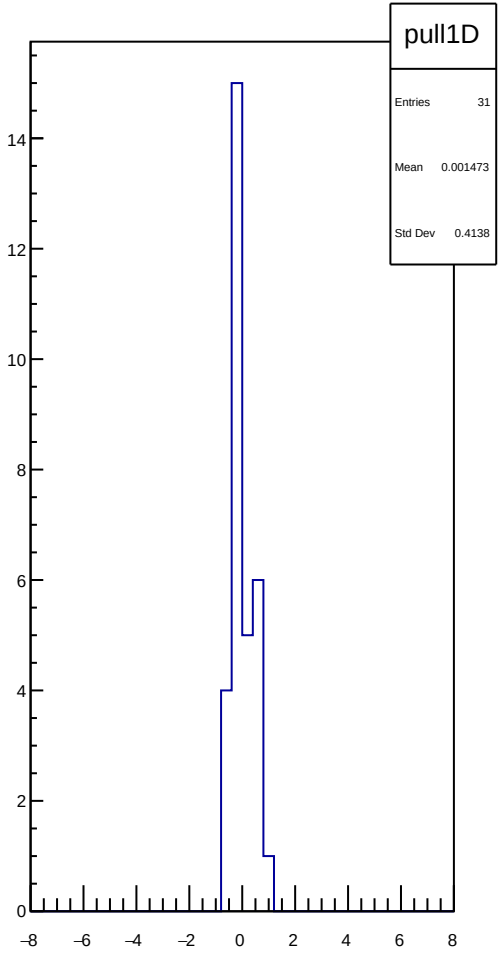

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.624 / 30
p0 −81.52 ± 1.799
−65
−70
−75
−80
−85
−90
−95
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −60.78
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

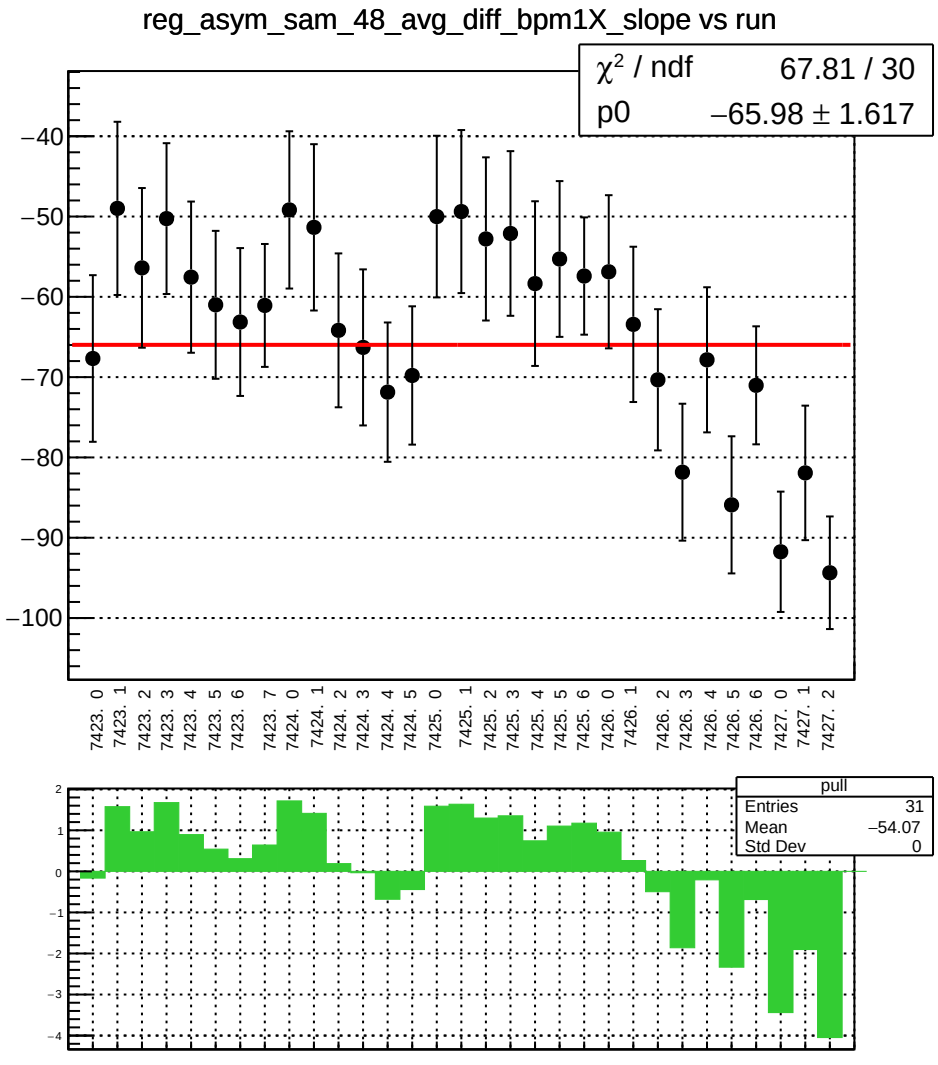

pull1D
Entries 31
Mean −0.02247
Std Dev 0.3856
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

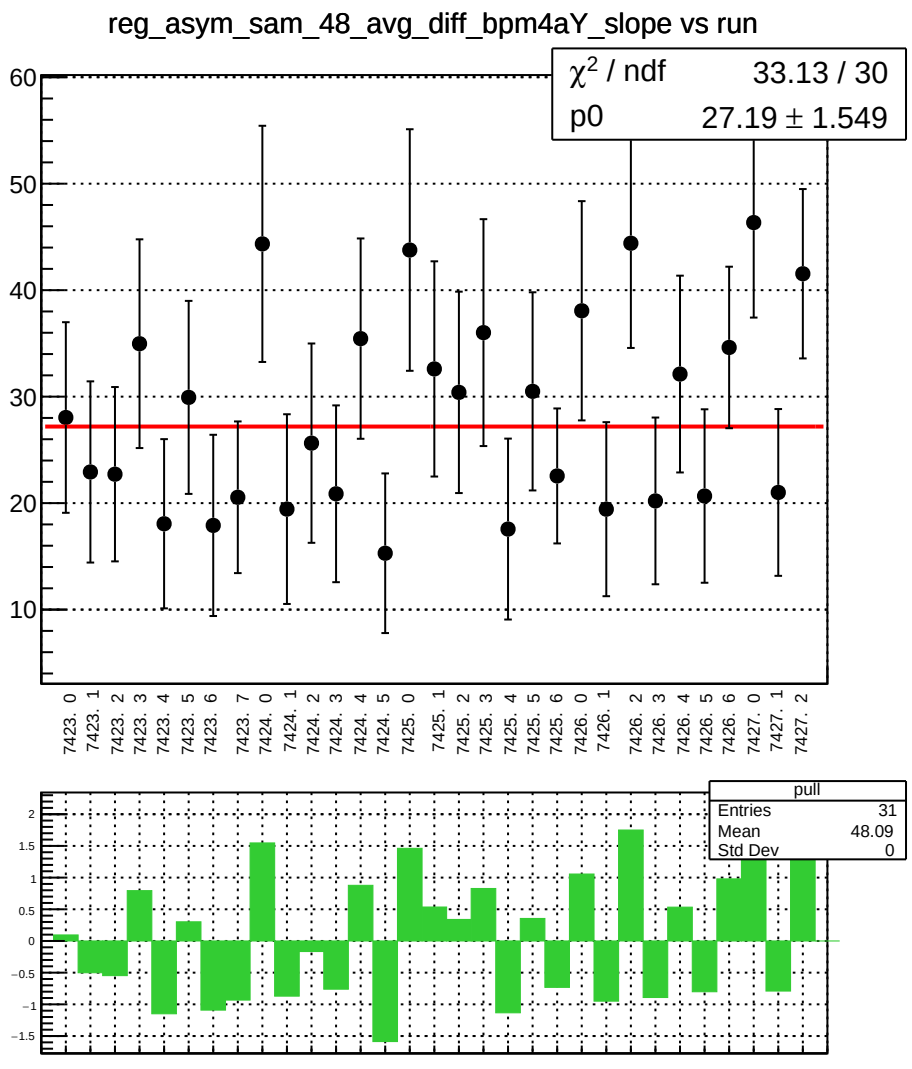

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.865 / 30
p0 −103.6 ± 1.771
−85
−90
−95
−100
−105
−110
−115
−120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −336.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

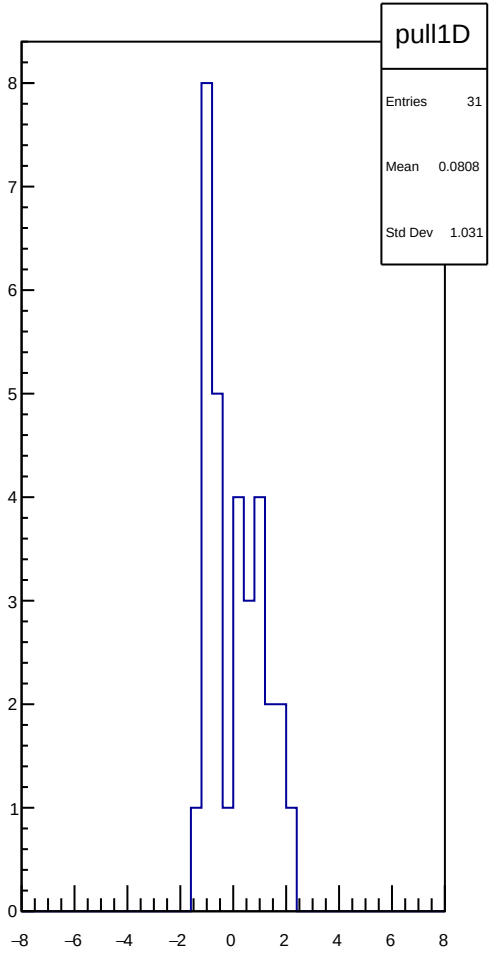

pull1D
Entries 31
Mean 0.004827
Std Dev 0.3531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

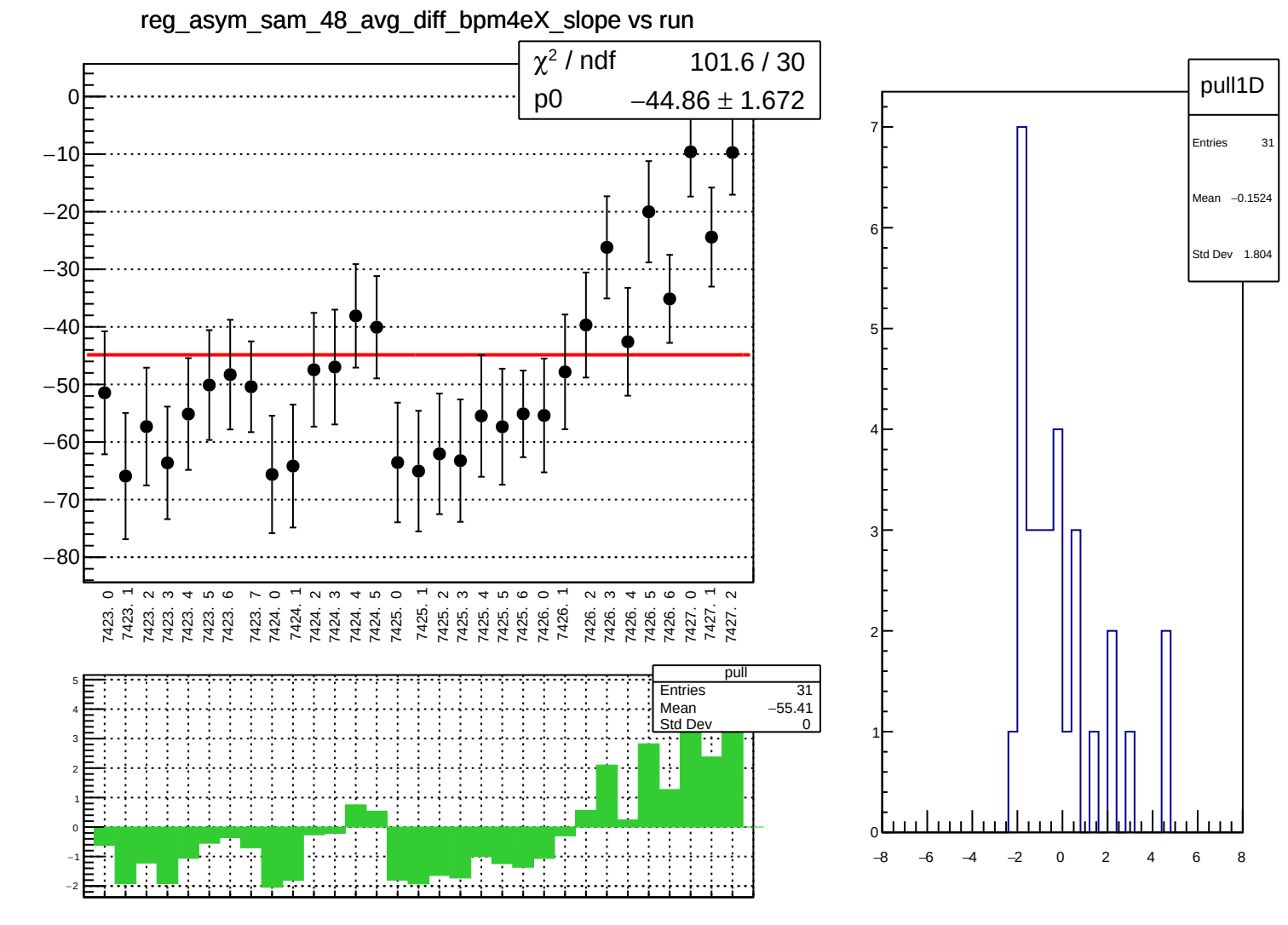

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 5.308 / 30
p0 0.5277 ± 0.07629
pull
Entries 31
Mean −507.1
Std Dev 0

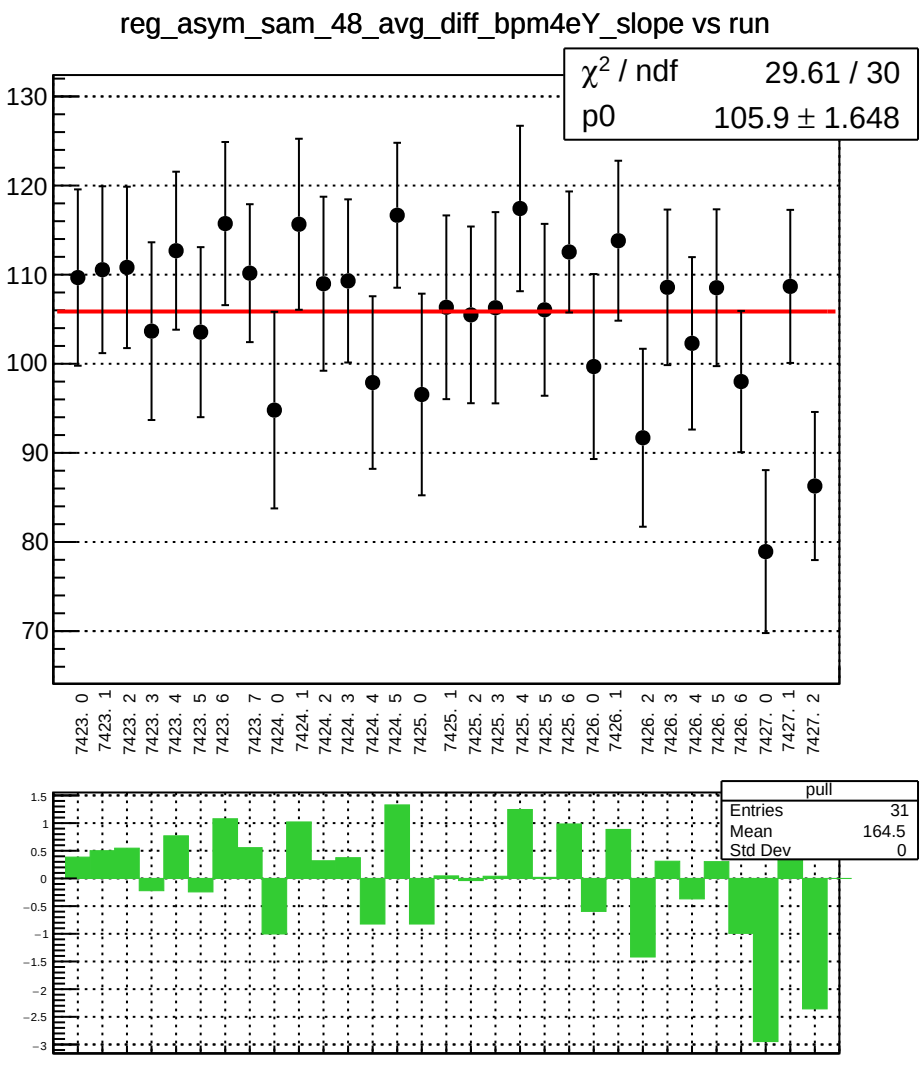

pull1D
Entries 31
Mean 0.001473
Std Dev 0.4138

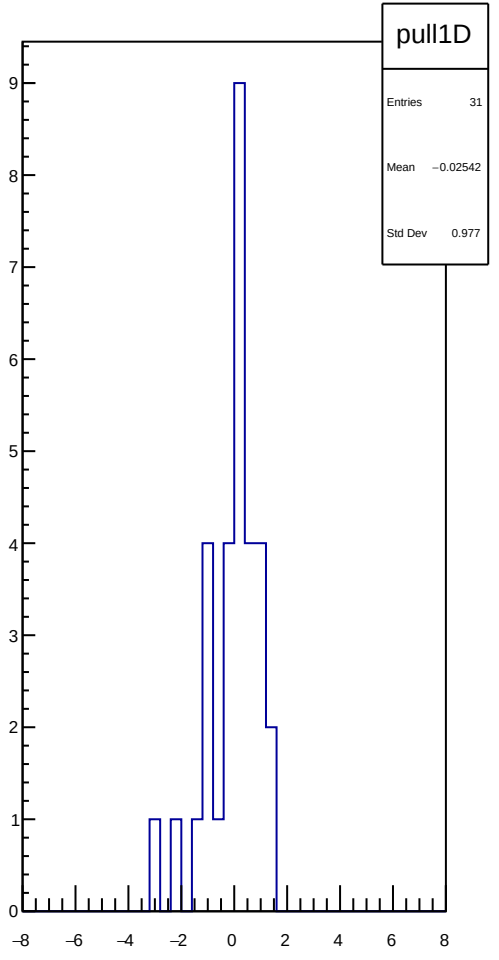

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 67.81 / 30
p0 −65.98 ± 1.617
−40
−50
−60
−70
−80
−90
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −54.07
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.1206
Std Dev 1.474
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

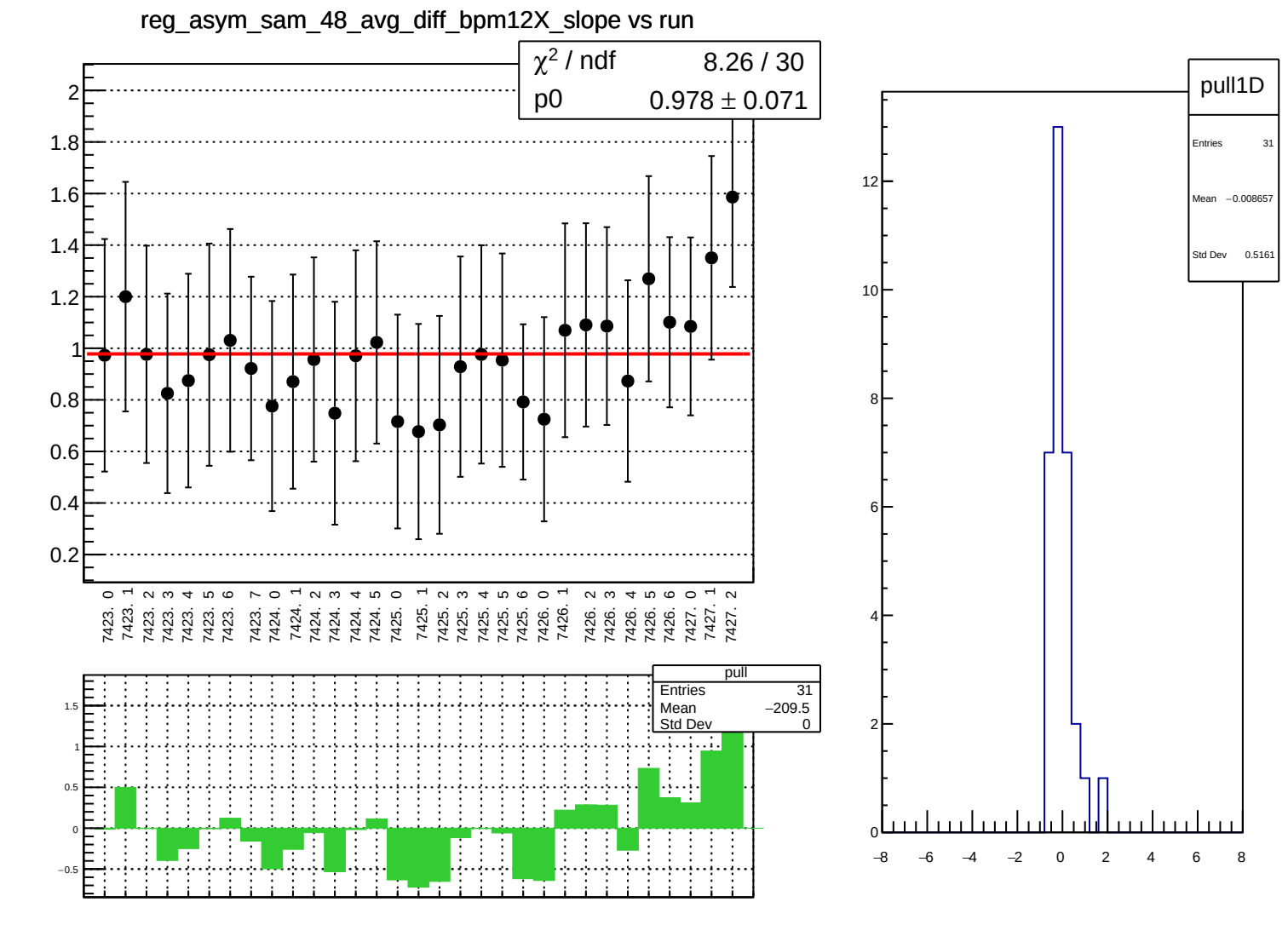

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.13 / 30
p0 27.19 ± 1.549
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 48.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

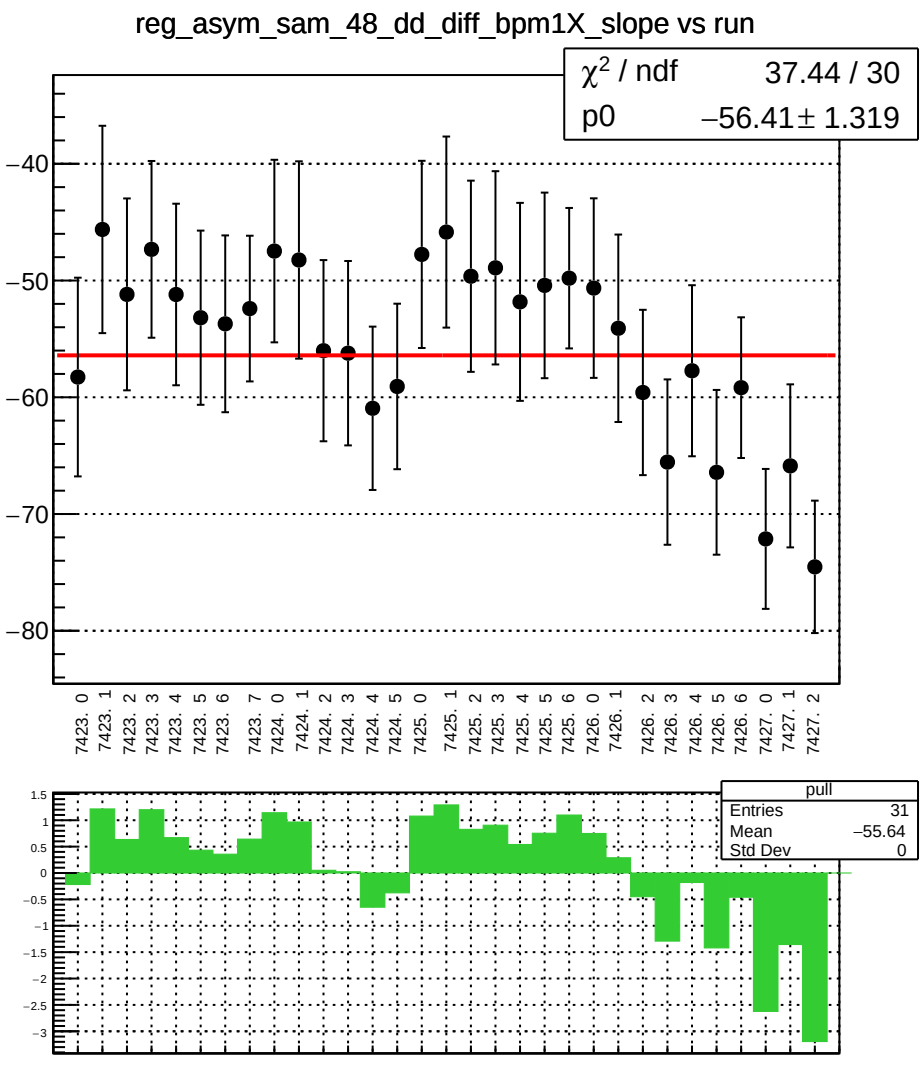

pull1D
Entries 31
Mean 0.0808
Std Dev 1.031
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

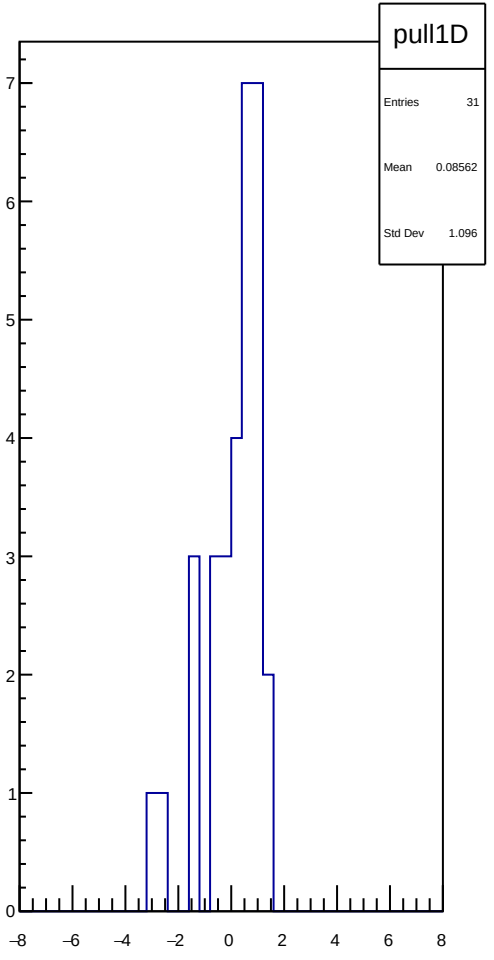

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 101.6 / 30
p0 −44.86 ± 1.672
0
−10
−20
−30
−40
−50
−60
−70
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −55.41
Std Dev 0
pull1D
Entries 31
Mean −0.1524
Std Dev 1.804

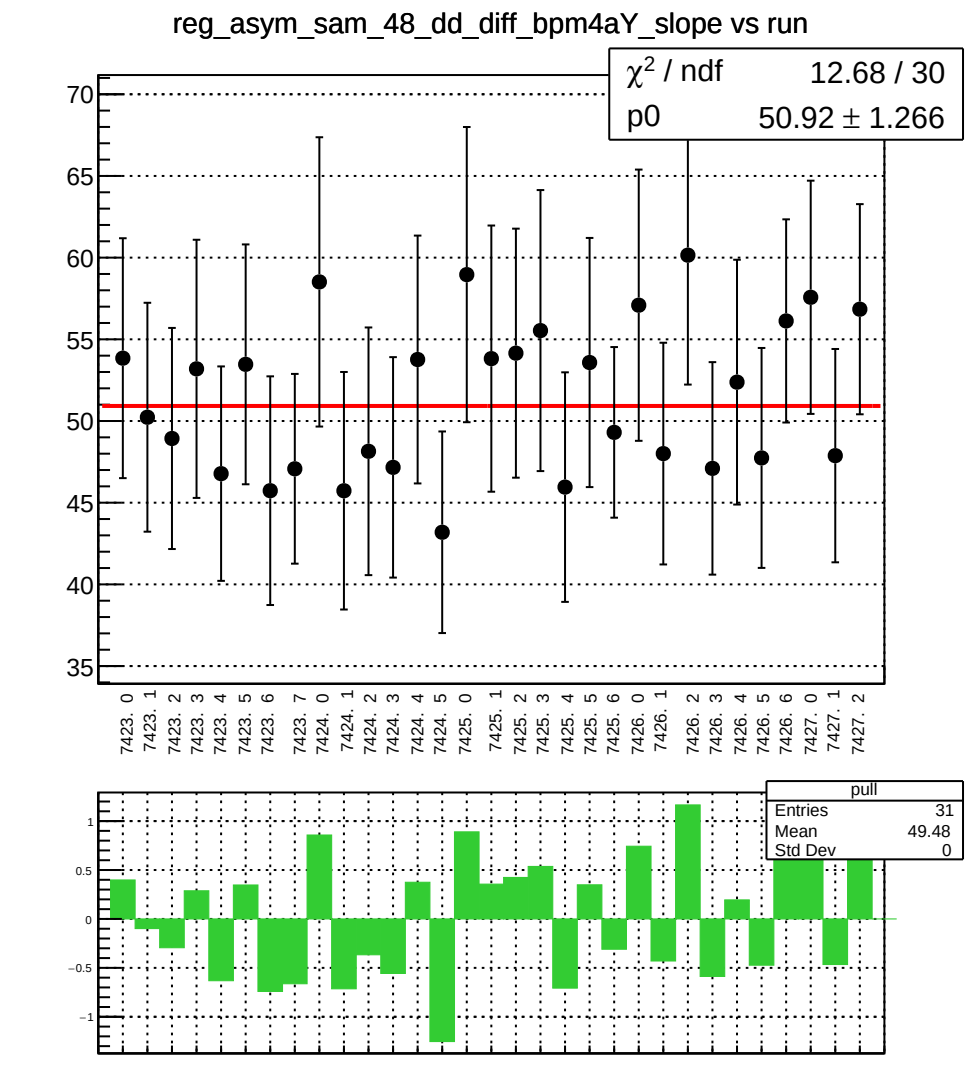

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.61 / 30
p0 105.9 ± 1.648
130
120
110
100
90
80
70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 164.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

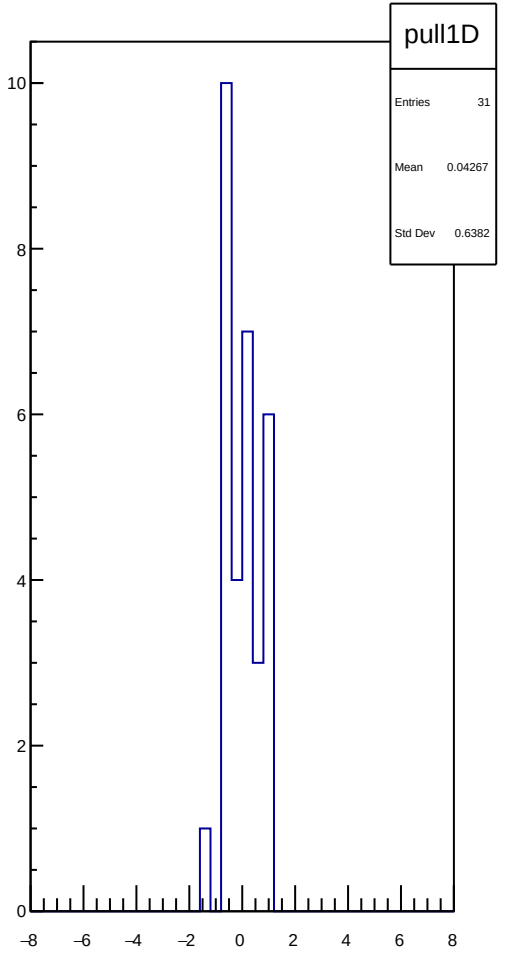

pull1D
Entries 31
Mean −0.02542
Std Dev 0.977
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

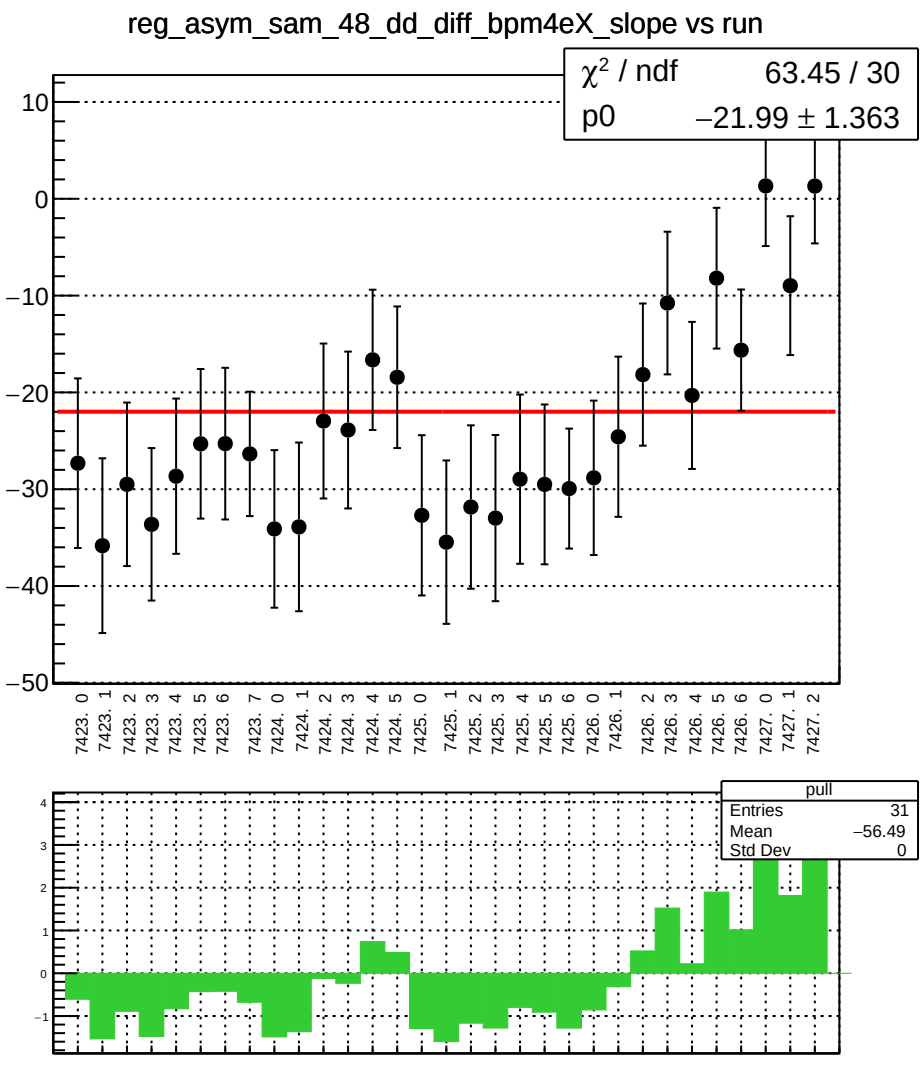

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 8.26 / 30
p0 0.978 ± 0.071
pull
Entries 31
Mean −209.5
Std Dev 0
pull1D
Entries 31
Mean −0.008657
Std Dev 0.5161

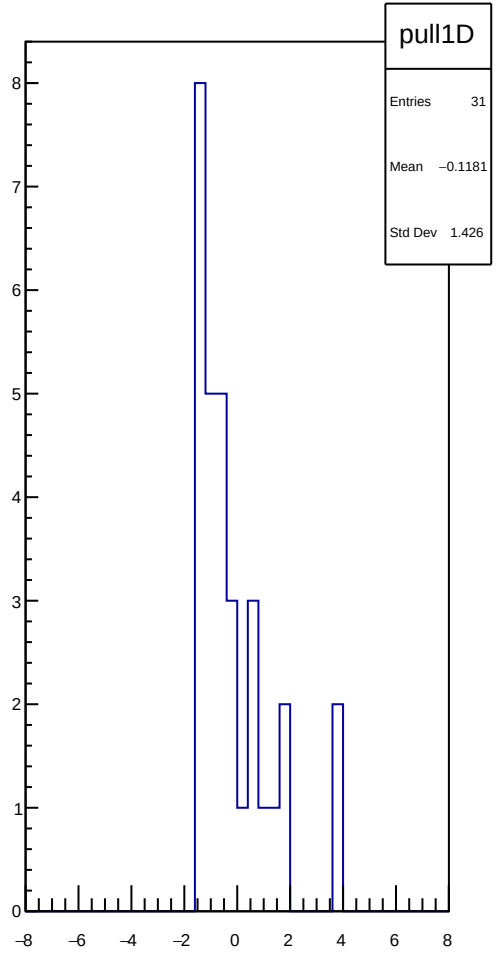

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 37.44 / 30
p0 −56.41± 1.319
−40
−50
−60
−70
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −55.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

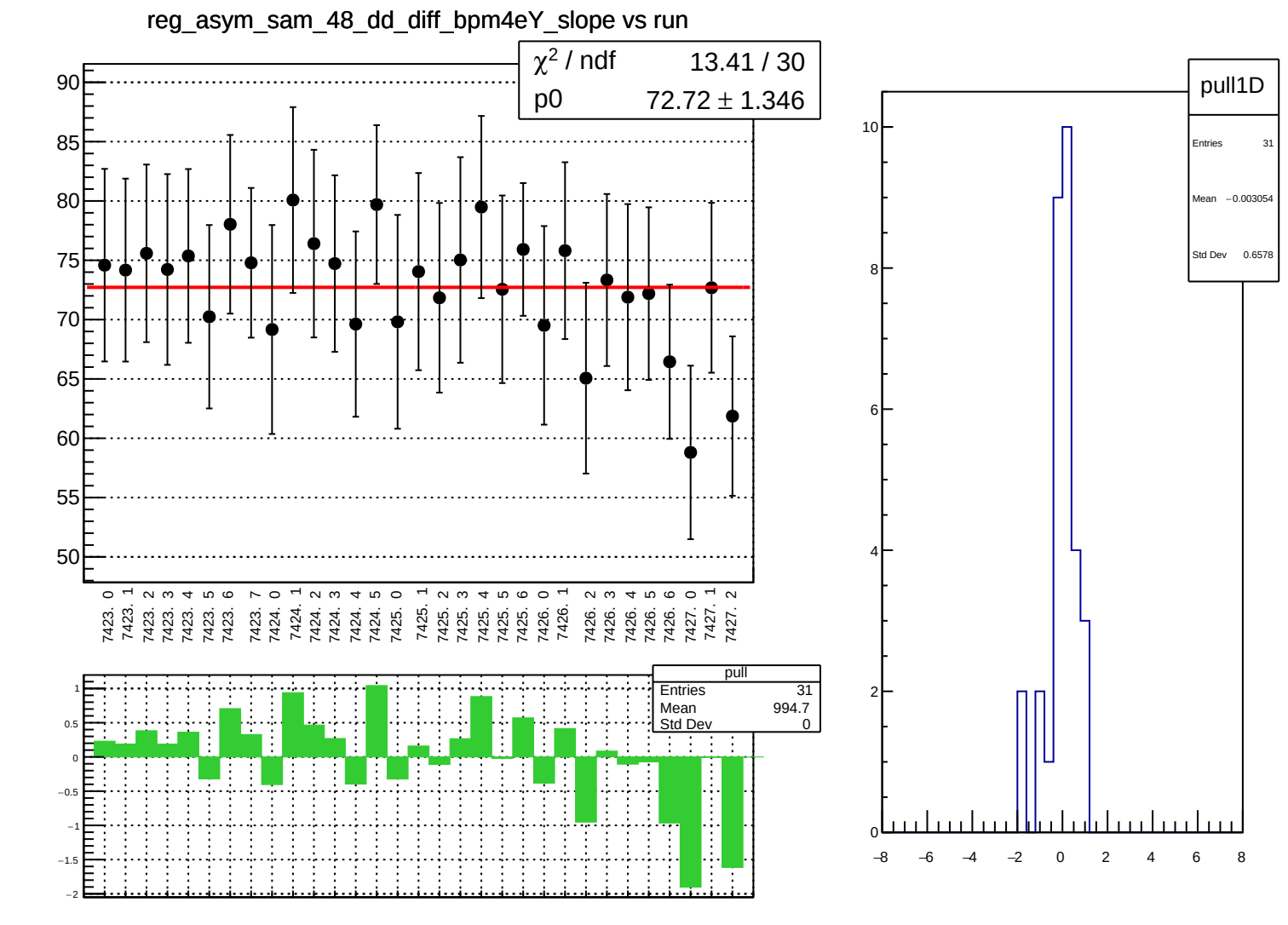

pull1D
Entries 31
Mean 0.08562
Std Dev 1.096
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

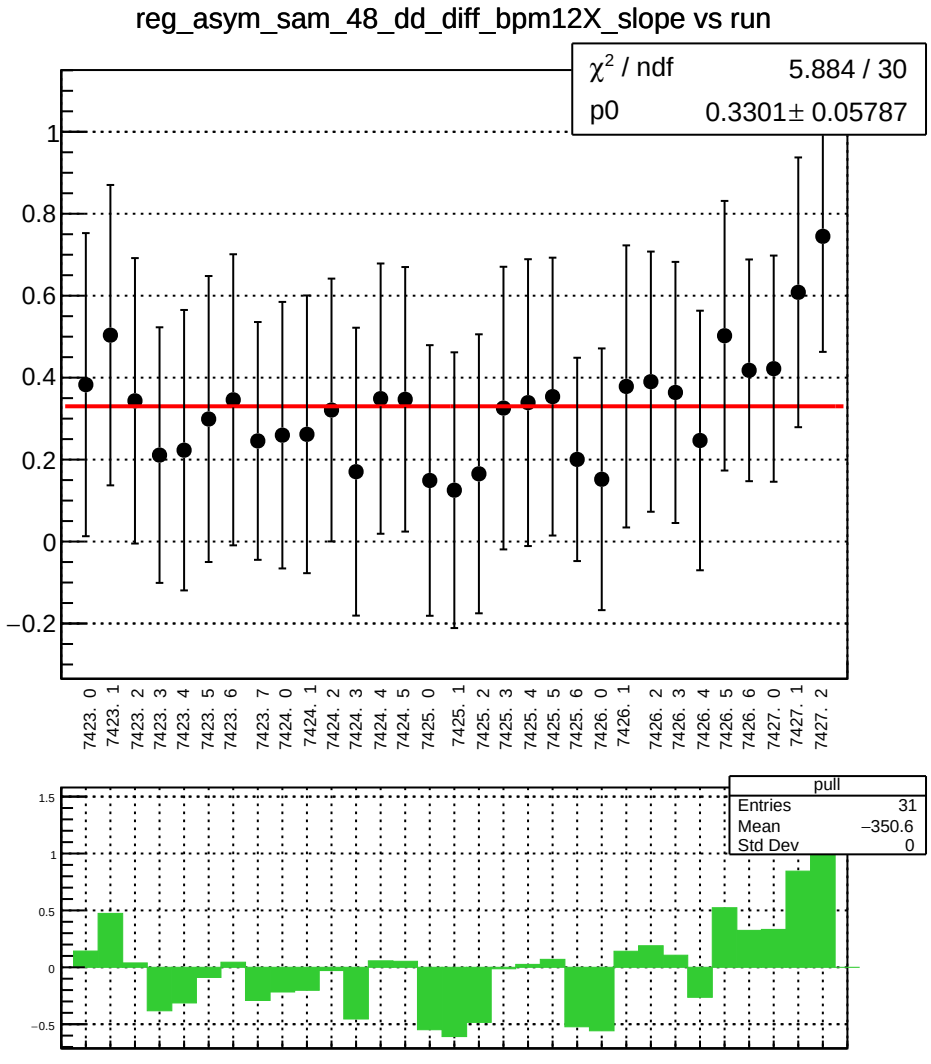

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.68 / 30
p0 50.92 ± 1.266
70
65
60
55
50
45
40
35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 49.48
Std Dev 0
1
0.5
0
−0.5
−1

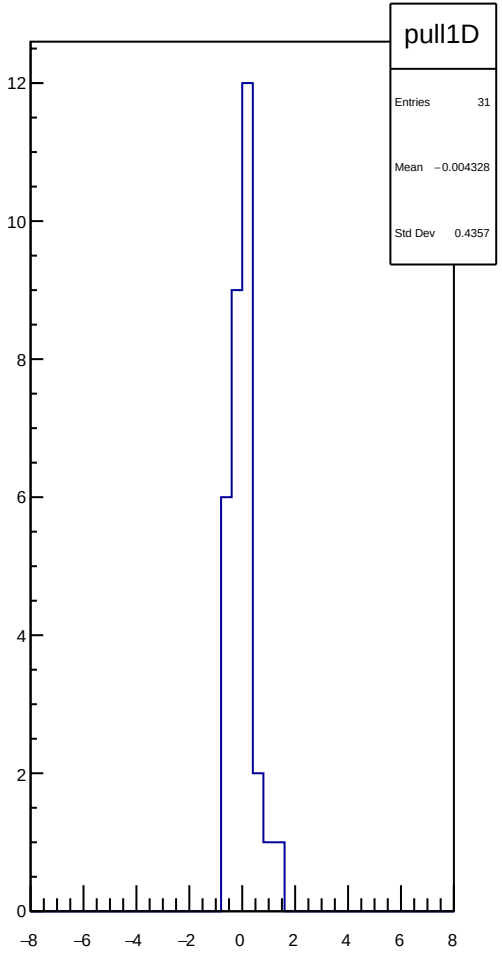

pull1D
Entries 31
Mean 0.04267
Std Dev 0.6382
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

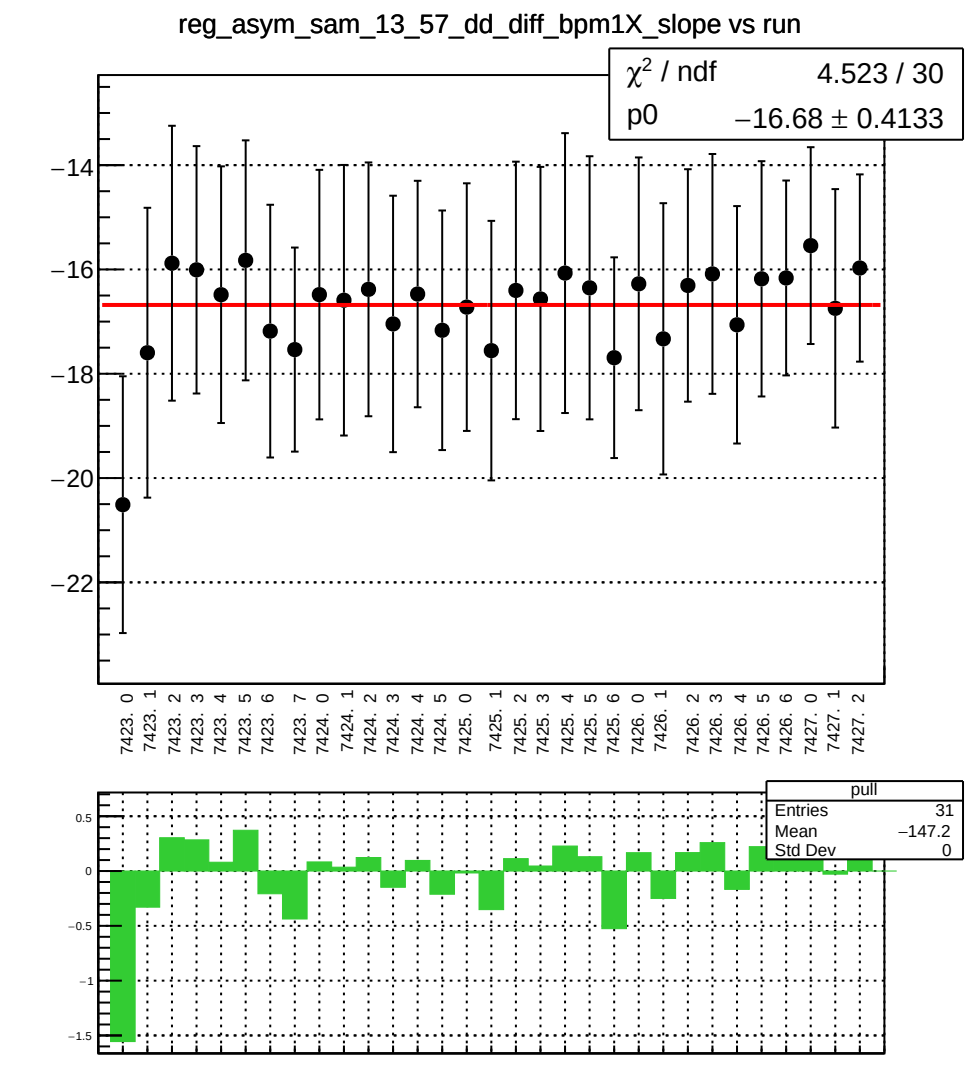

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.45 / 30
p0 −21.99 ± 1.363
10
0
−10
−20
−30
−40
−50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −56.49
Std Dev 0
4
3
2
1
0
−1

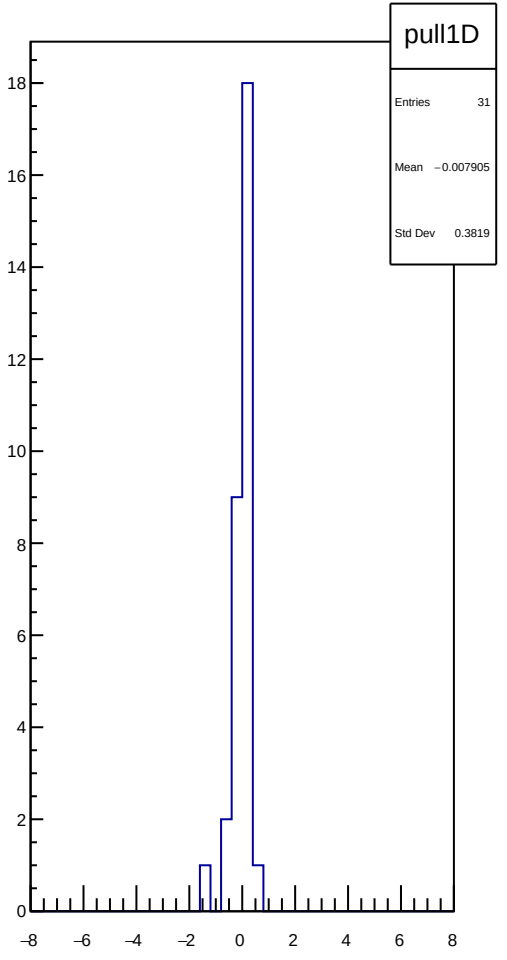

pull1D
Entries 31
Mean −0.1181
Std Dev 1.426
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

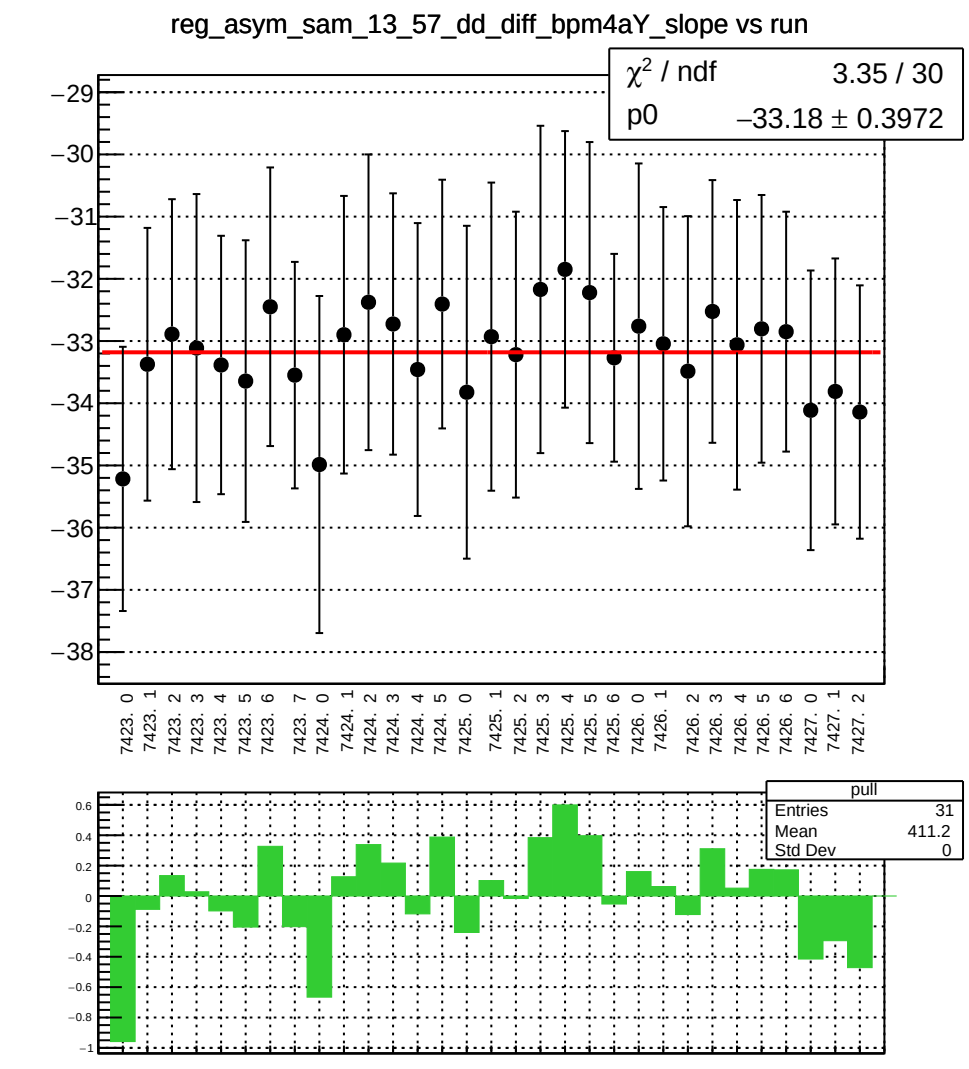

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.41 / 30
p0 72.72 ± 1.346
pull
Entries 31
Mean 994.7
Std Dev 0
pull1D
Entries 31
Mean −0.003054
Std Dev 0.6578

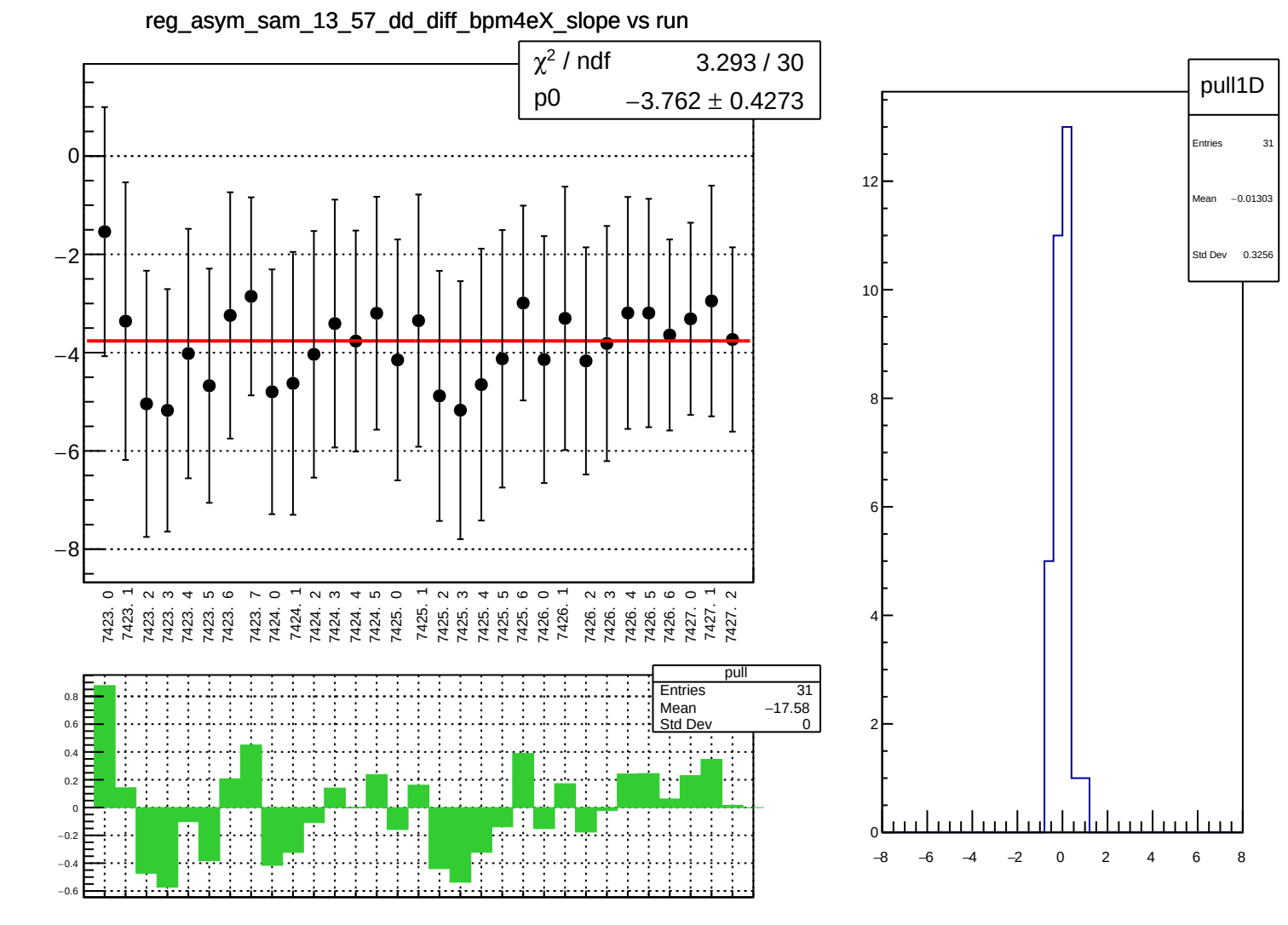

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.884 / 30
p0 0.3301± 0.05787
pull
Entries 31
Mean −350.6
Std Dev 0

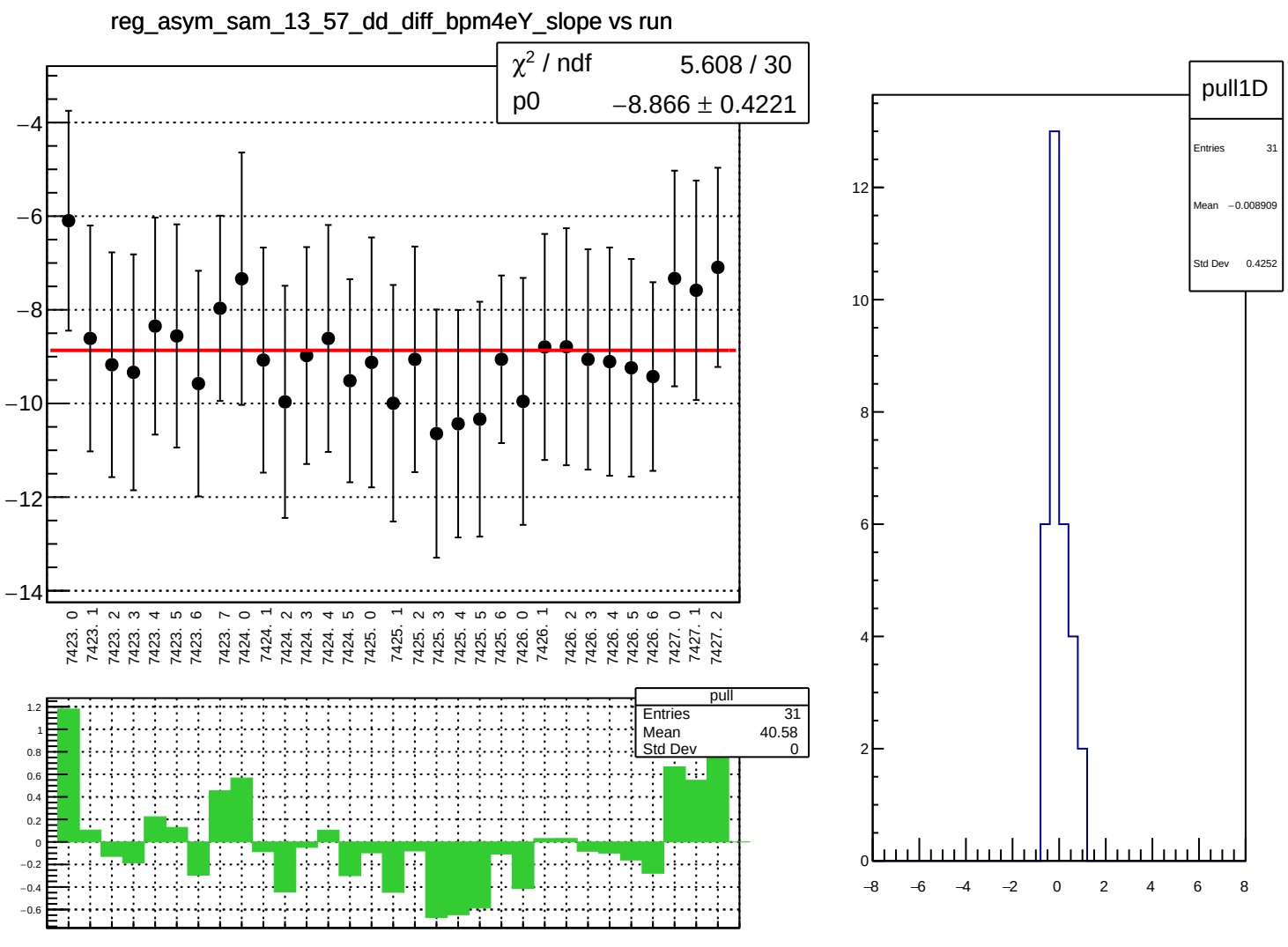

pull1D
Entries 31
Mean −0.004328
Std Dev 0.4357

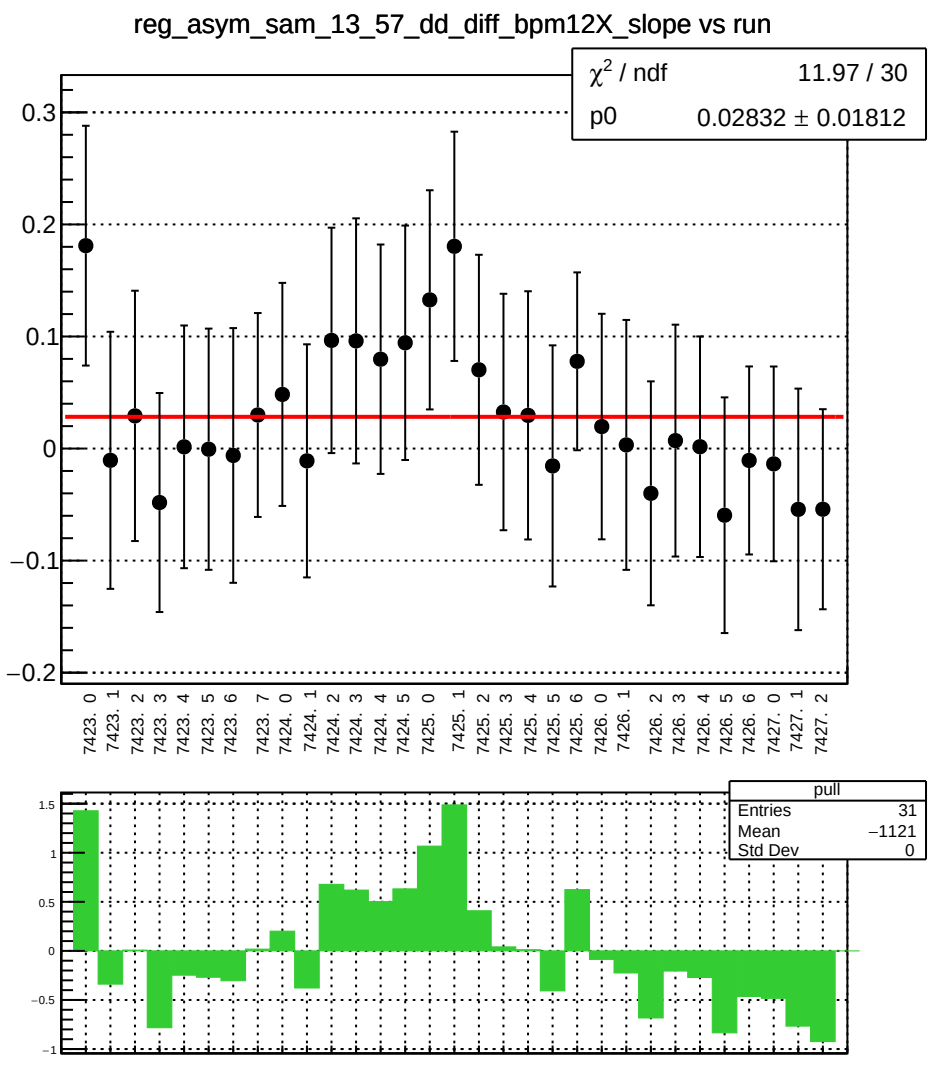

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 4.523 / 30
p0 −16.68 ± 0.4133
−14
−16
−18
−20
−22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −147.2
Std Dev 0
0.5
0
−0.5
−1
−1.5

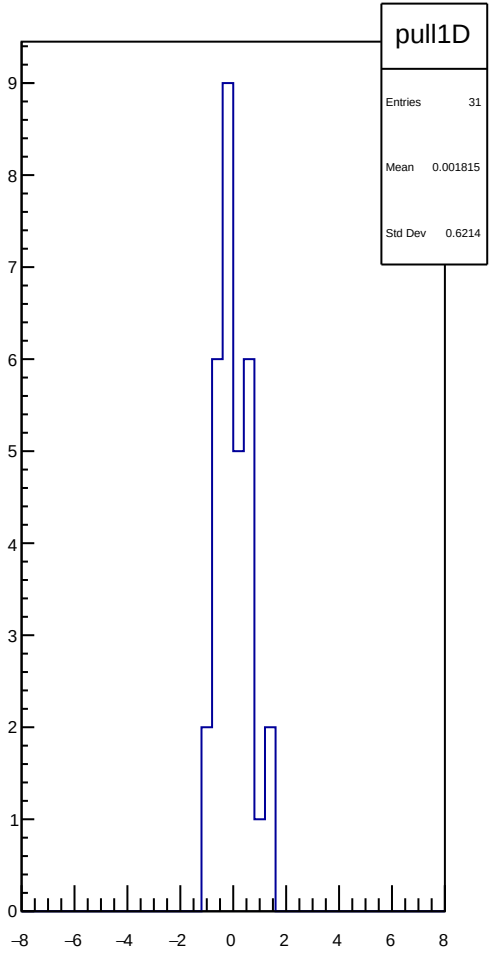

pull1D
Entries 31
Mean −0.007905
Std Dev 0.3819
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

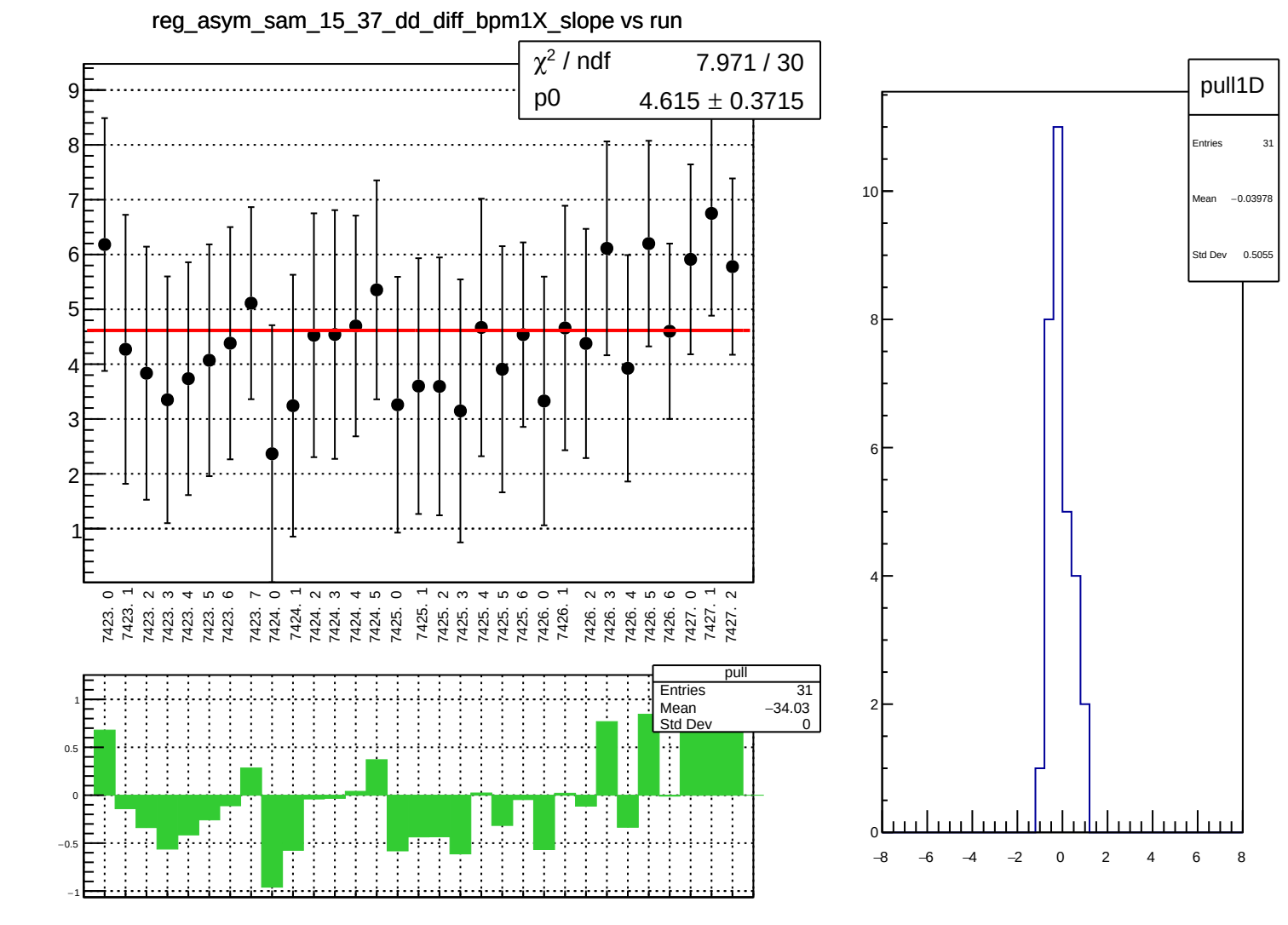

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.35 / 30
p0 −33.18 ± 0.3972
pull
Entries 31
Mean 411.2
Std Dev 0
pull1D
Entries 31
Mean 0.0009378
Std Dev 0.3287

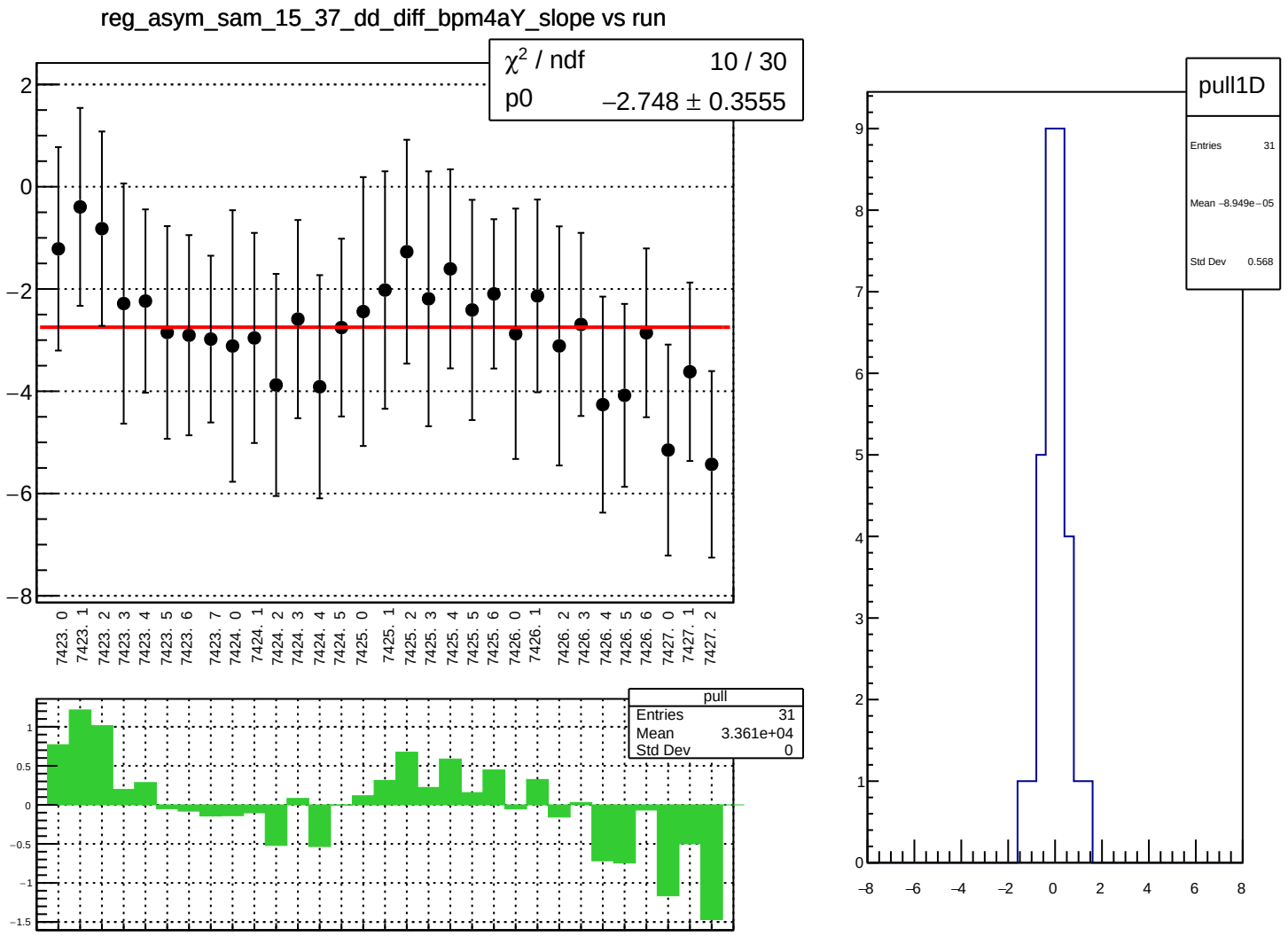

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.293 / 30
p0 −3.762 ± 0.4273
0
−2
−4
−6
−8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −17.58
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean −0.01303
Std Dev 0.3256
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

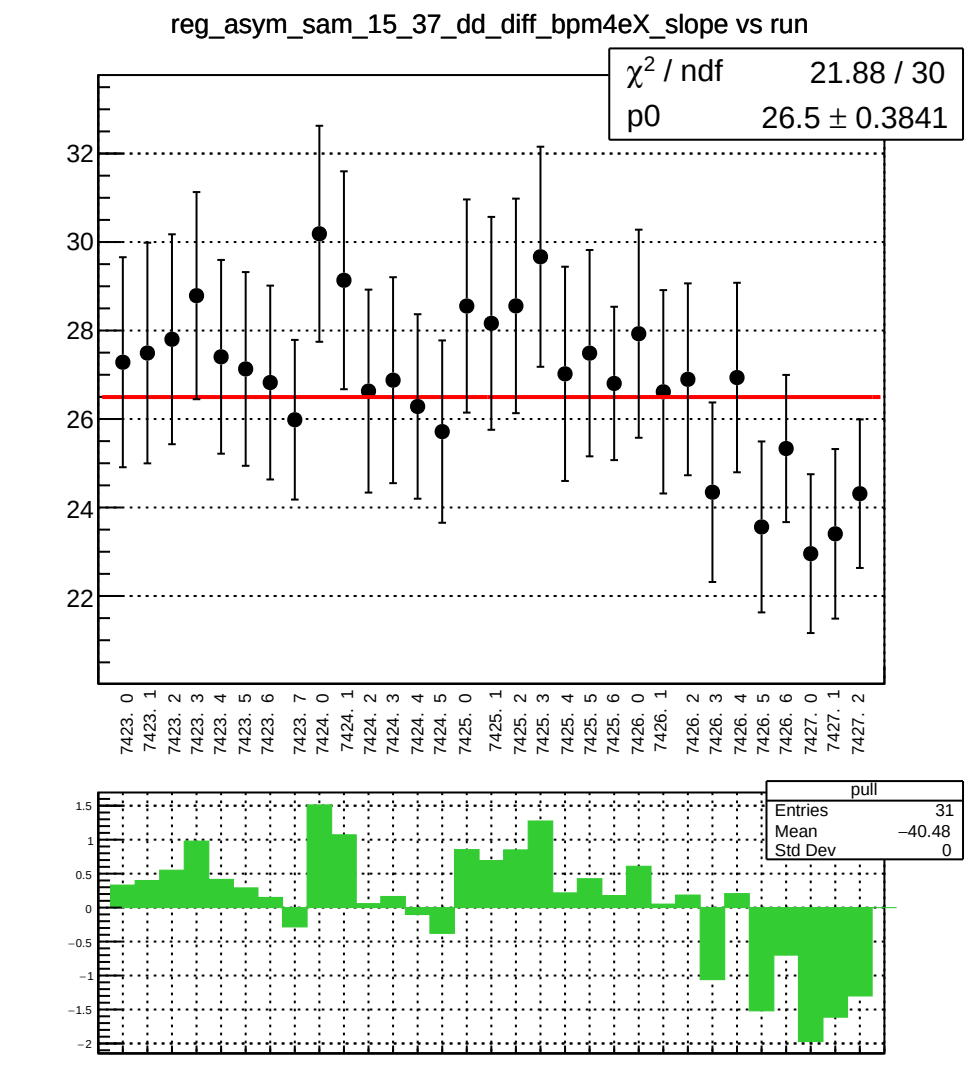

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.608 / 30
p0 −8.866 ± 0.4221
−4
−6
−8
−10
−12
−14
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 40.58
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean −0.008909
Std Dev 0.4252
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

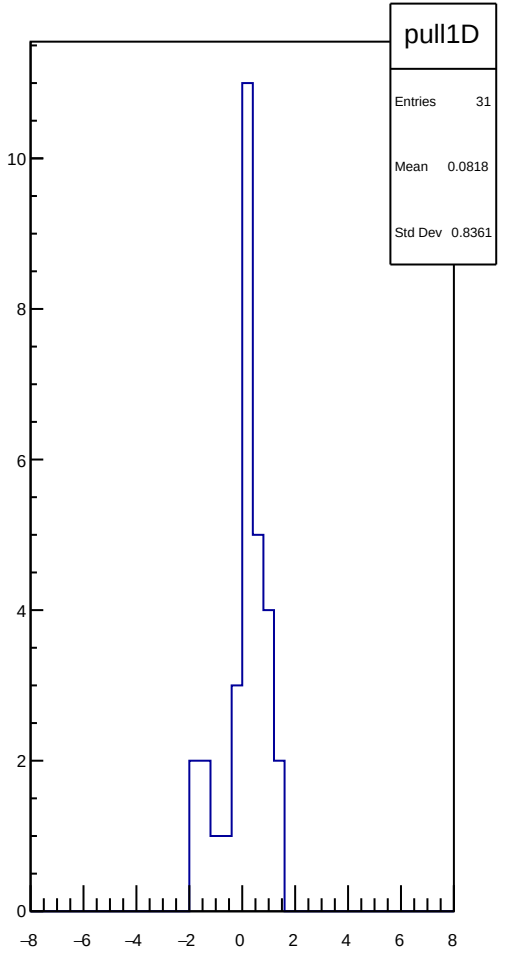

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 11.97 / 30
p0 0.02832 ± 0.01812
0.3
0.2
0.1
0
−0.1
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −1121
Std Dev 0
1.5
1
0.5
0
−0.5
−1

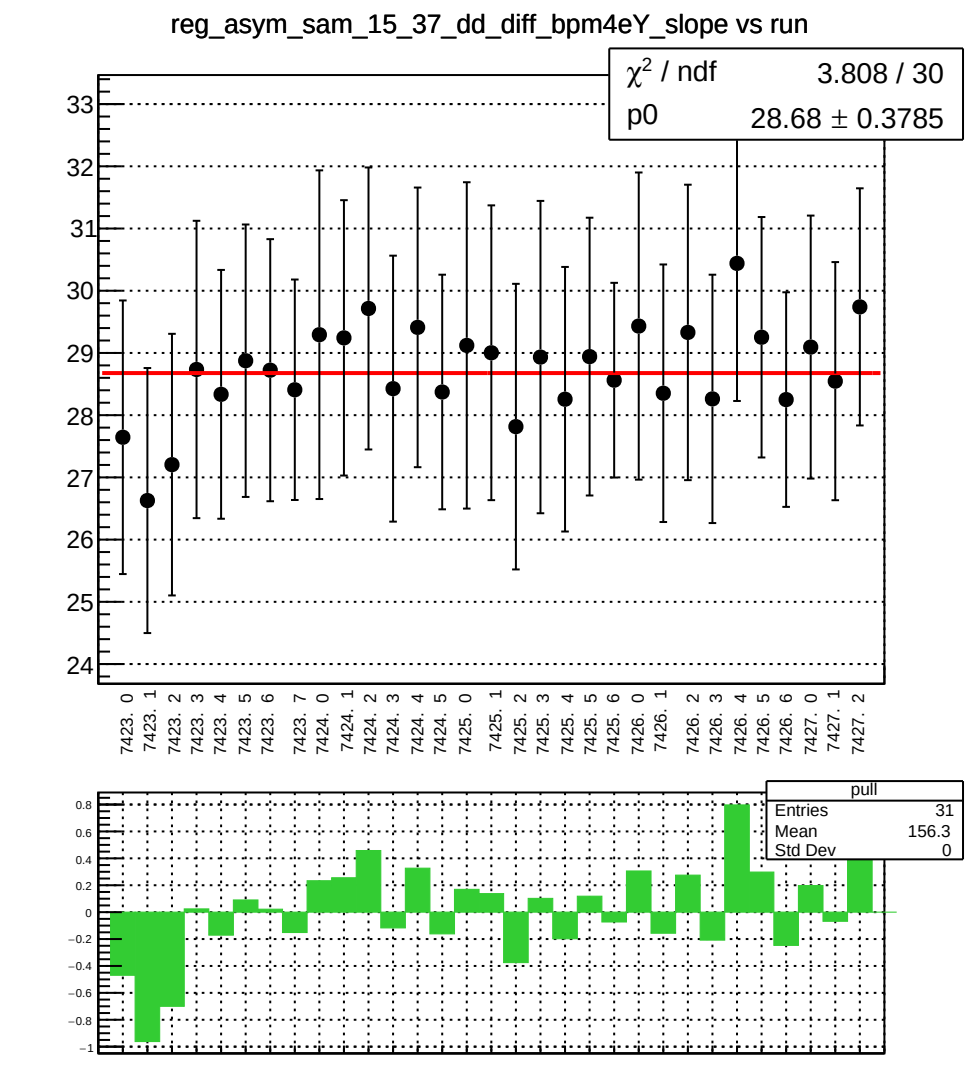

pull1D
Entries 31
Mean 0.001815
Std Dev 0.6214
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

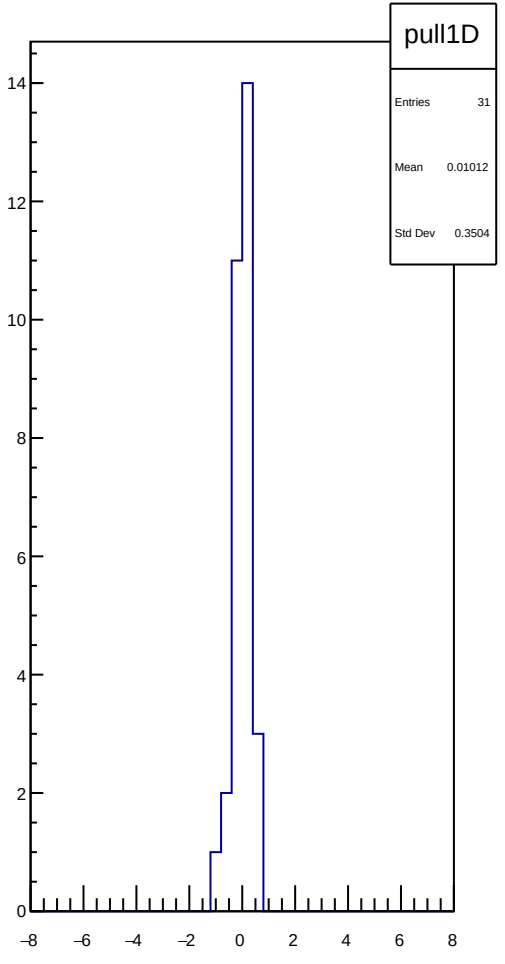

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 7.971 / 30
p0 4.615 ± 0.3715
pull
Entries 31
Mean −34.03
Std Dev 0
pull1D
Entries 31
Mean −0.03978
Std Dev 0.5055

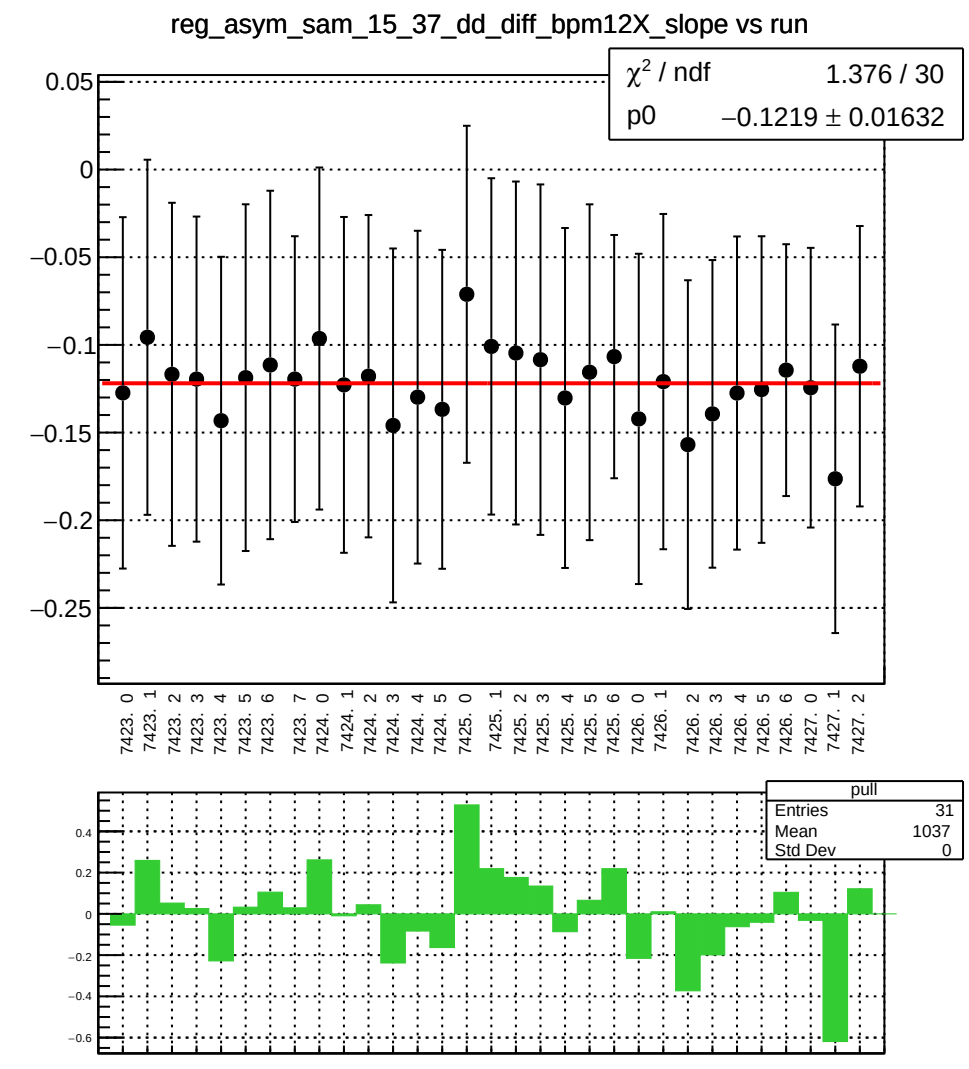

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 10 / 30
p0 −2.748 ± 0.3555
pull
Entries 31
Mean 3.361e+04
Std Dev 0
pull1D
Entries 31
Mean −8.949e−05
Std Dev 0.568

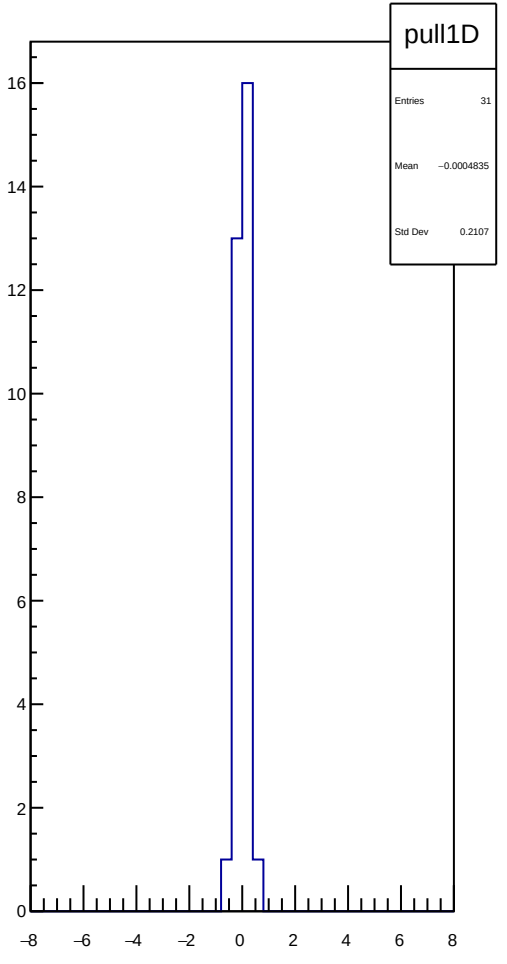

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.88 / 30
p0 26.5 ± 0.3841
32
30
28
26
24
22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −40.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

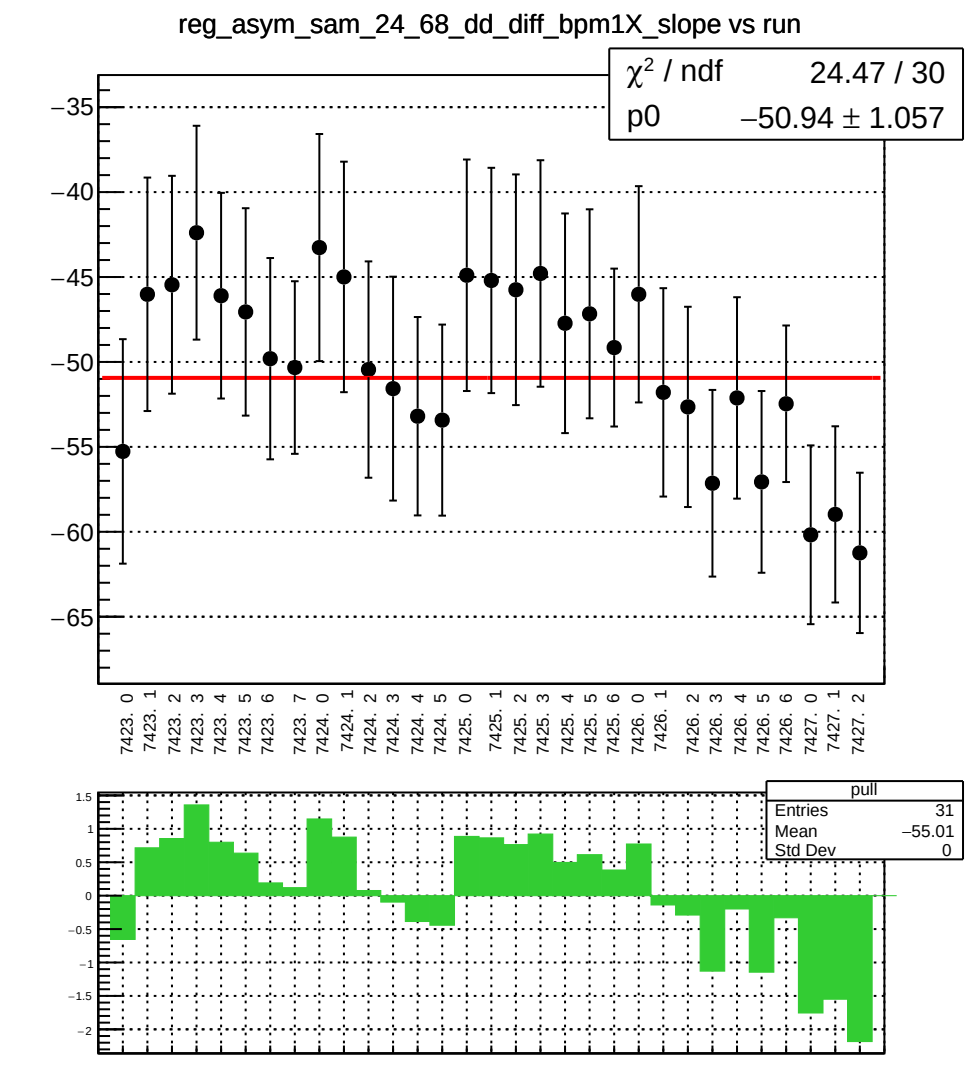

pull1D
Entries 31
Mean 0.0818
Std Dev 0.8361
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

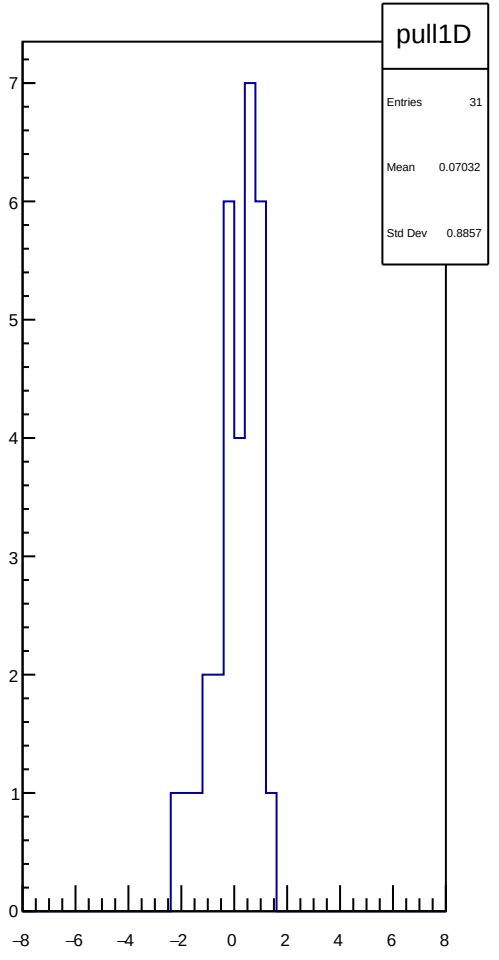

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.808 / 30
p0 28.68 ± 0.3785
pull
Entries 31
Mean 156.3
Std Dev 0

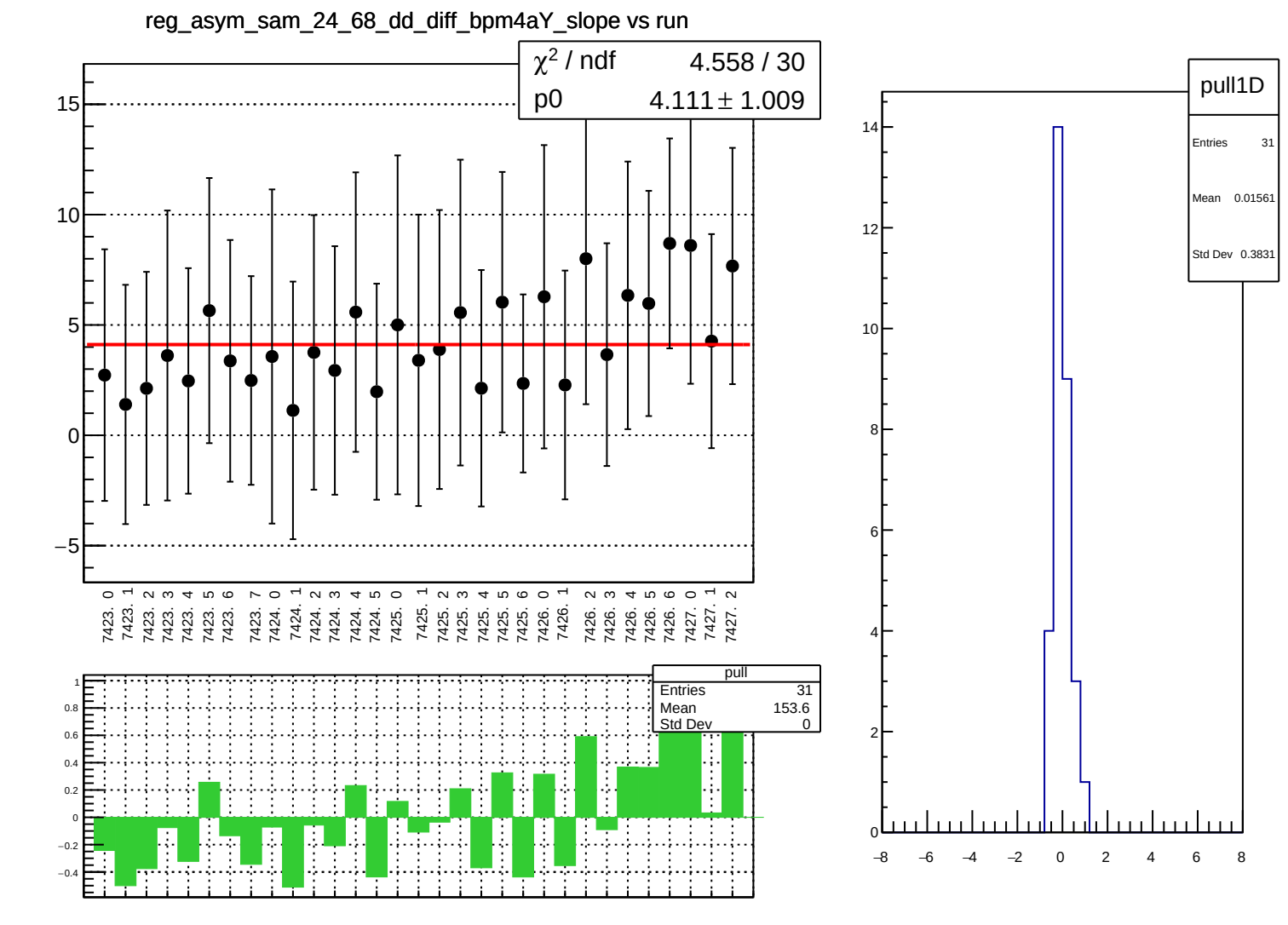

pull1D
Entries 31
Mean 0.01012
Std Dev 0.3504

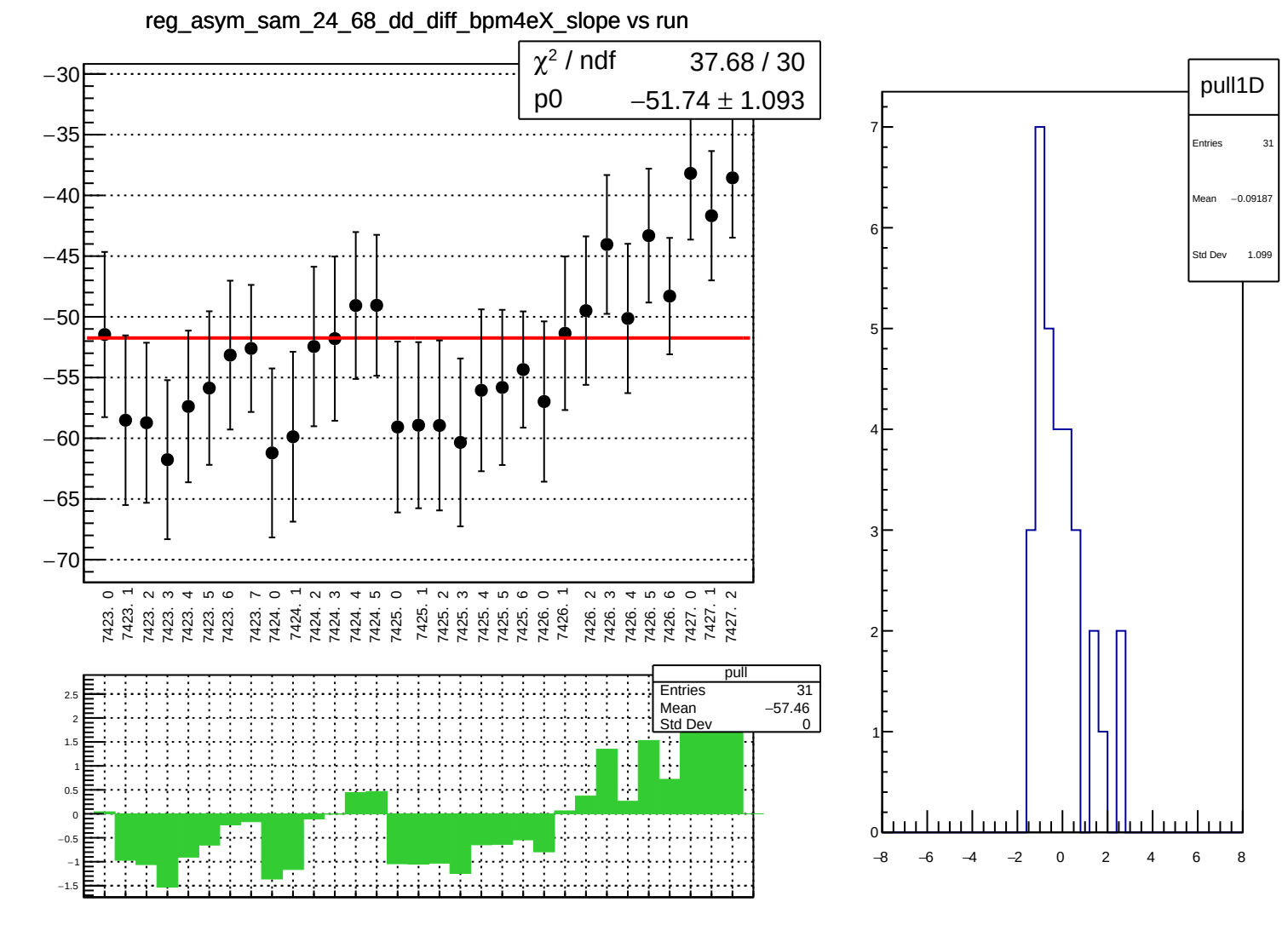

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.376 / 30
p0 −0.1219 ± 0.01632
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1037
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

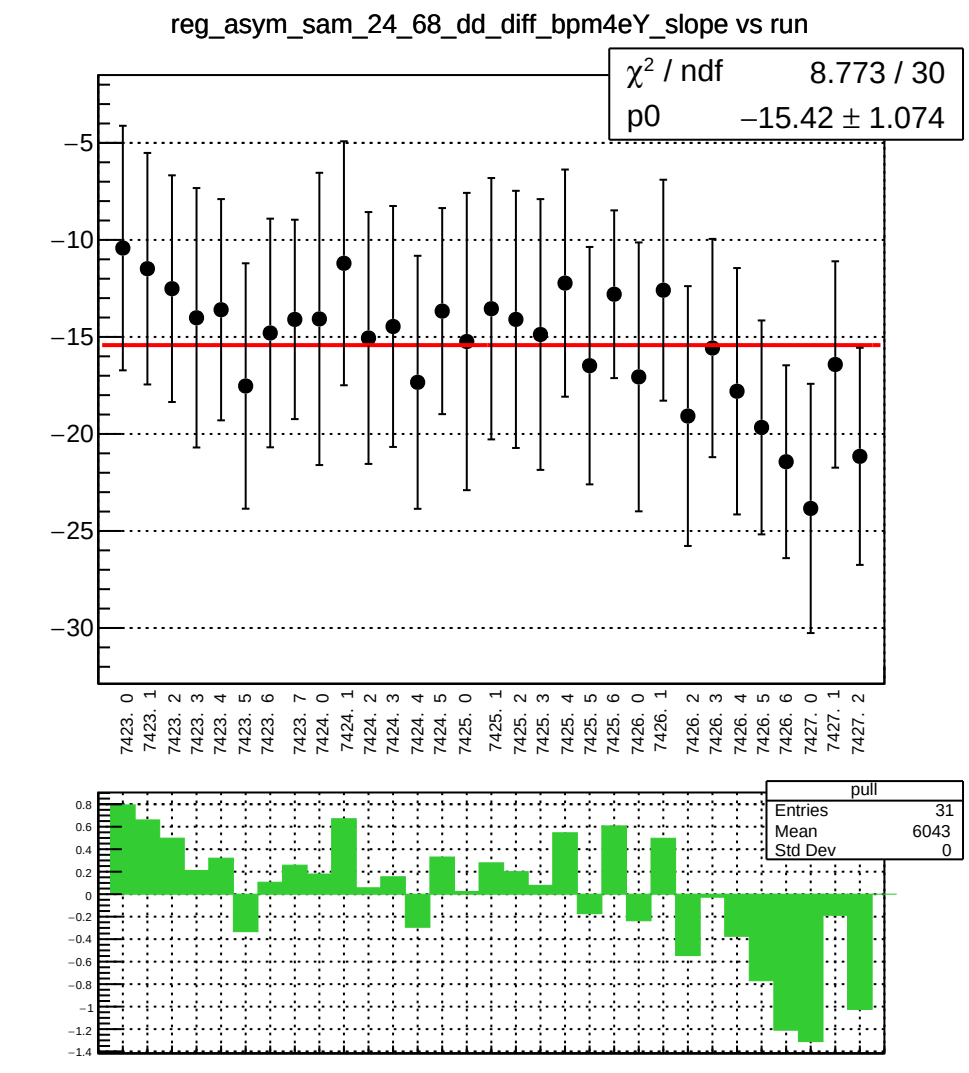

pull1D
Entries 31
Mean −0.0004835
Std Dev 0.2107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

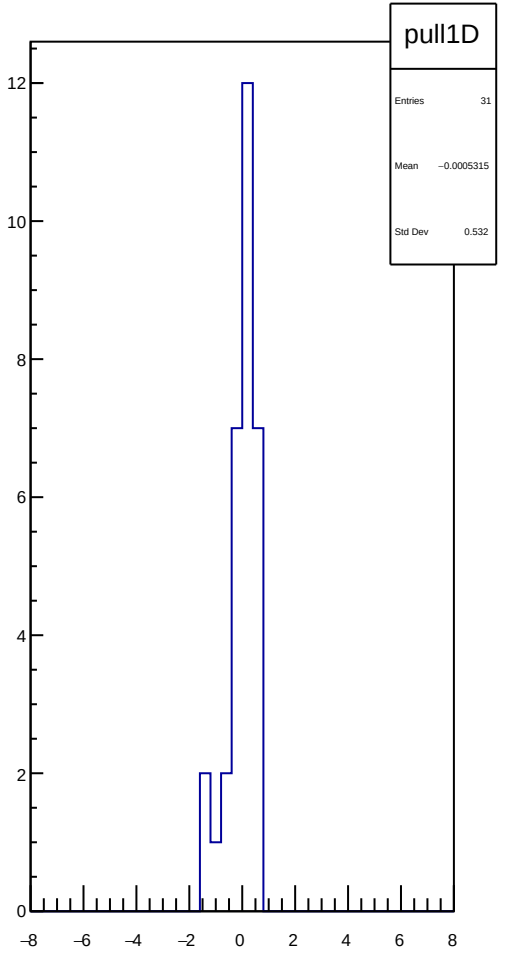

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 24.47 / 30
p0 −50.94 ± 1.057
−35
−40
−45
−50
−55
−60
−65
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −55.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

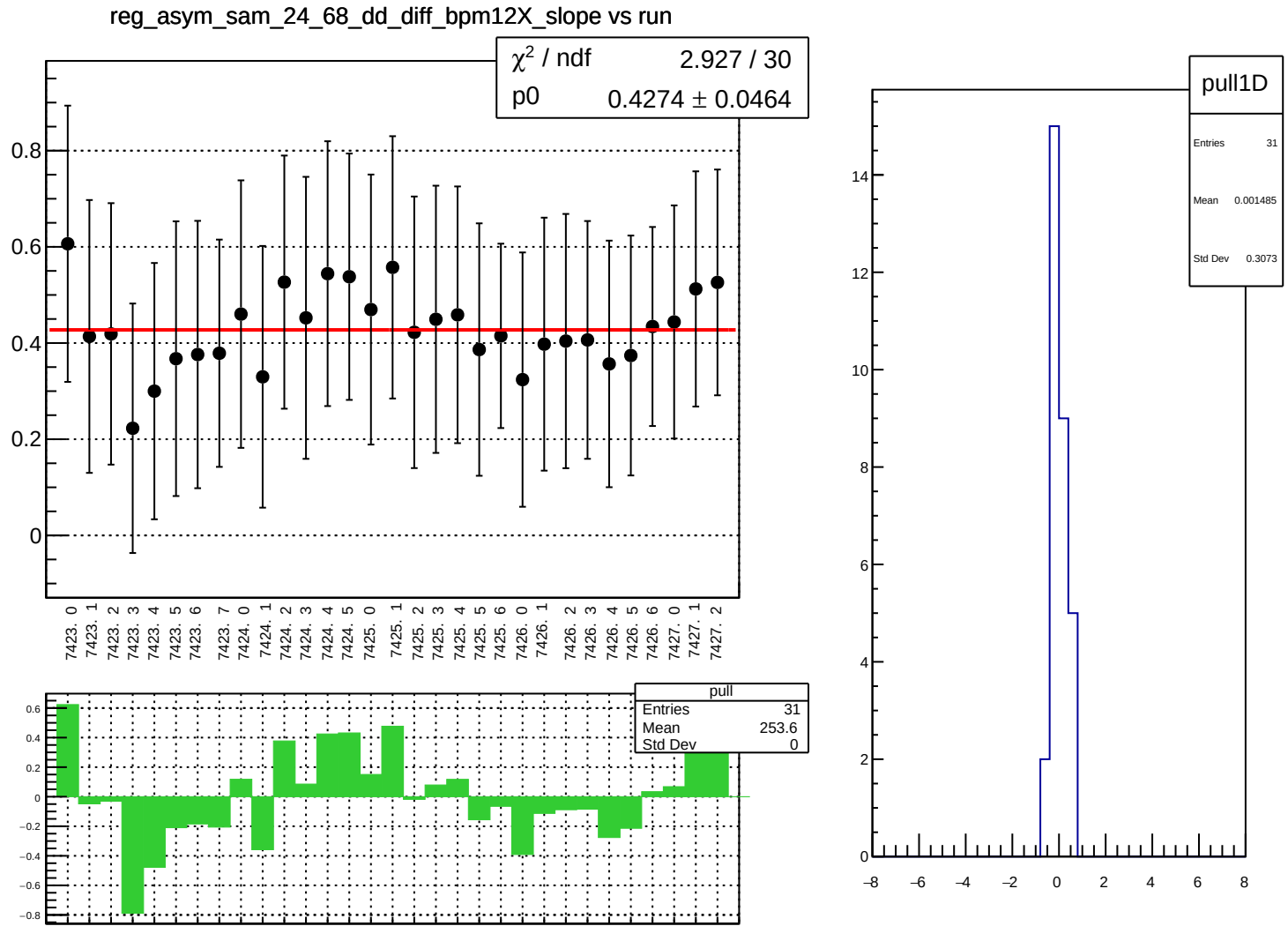

pull1D
Entries 31
Mean 0.07032
Std Dev 0.8857
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

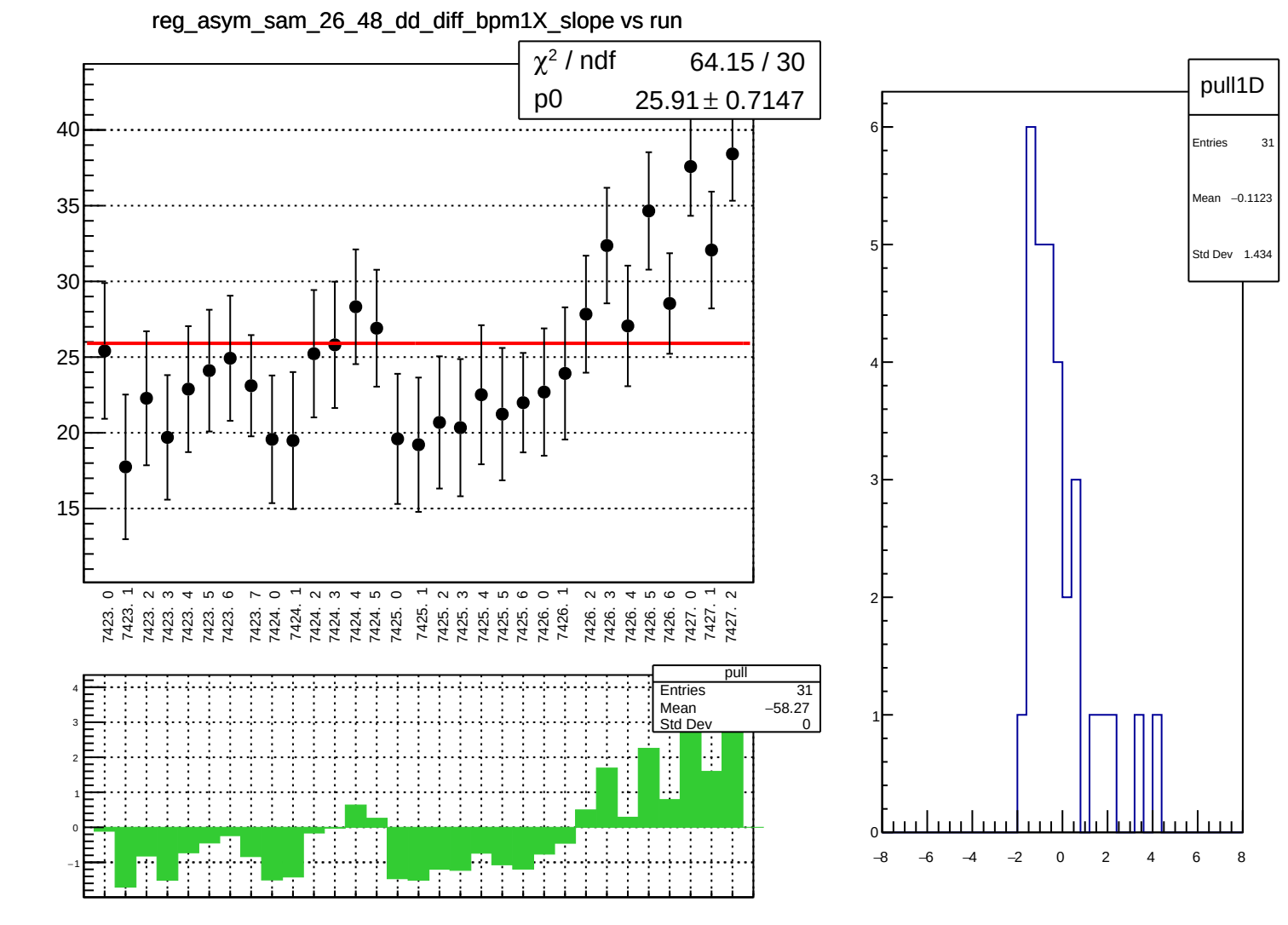

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.558 / 30
p0 4.111 ± 1.009
15
10
5
0
−5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 153.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 31
Mean 0.01561
Std Dev 0.3831
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

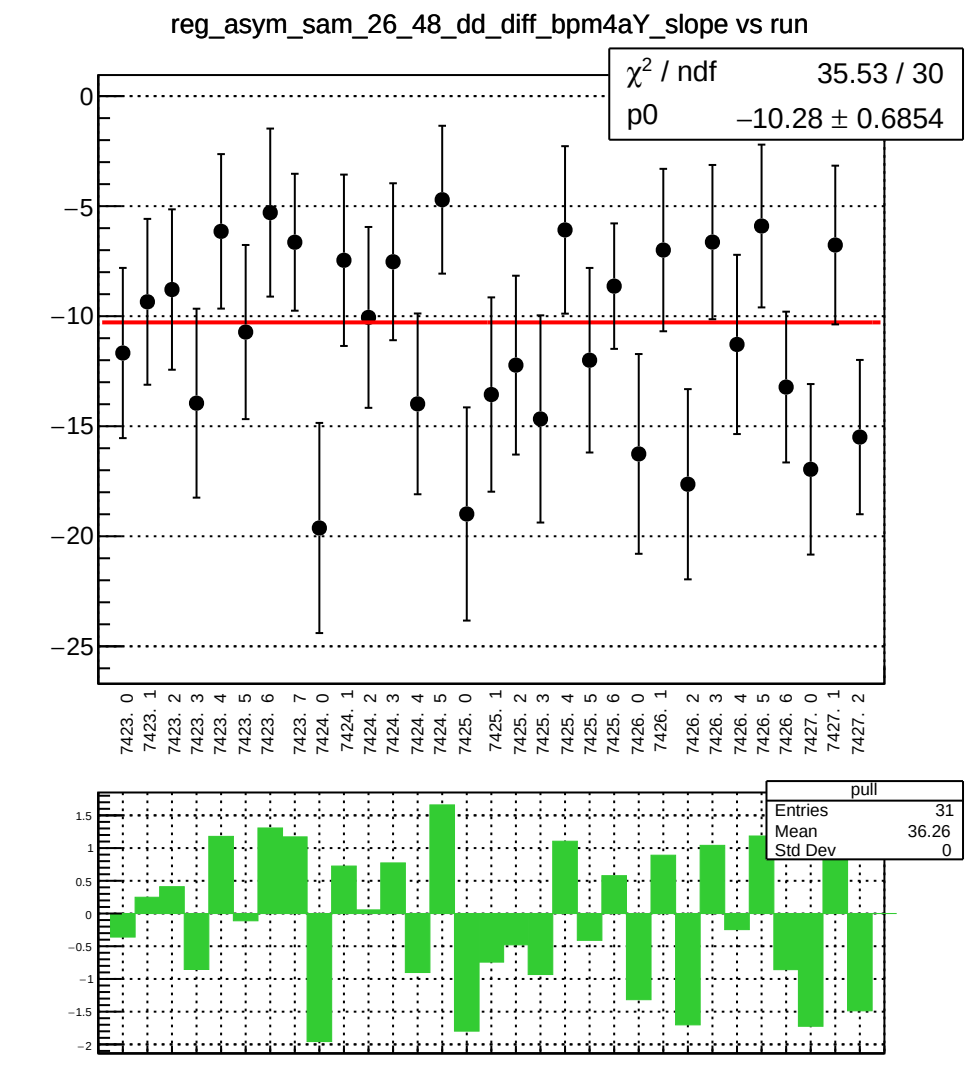

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.68 / 30
p0 −51.74 ± 1.093
−30
−35
−40
−45
−50
−55
−60
−65
−70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −57.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.09187
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

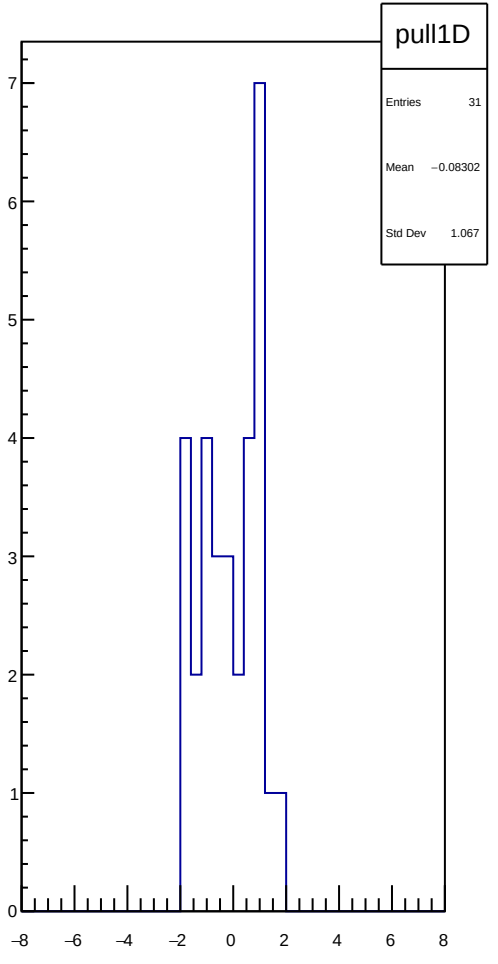

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.773 / 30
p0 −15.42 ± 1.074
−5
−10
−15
−20
−25
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 6043
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

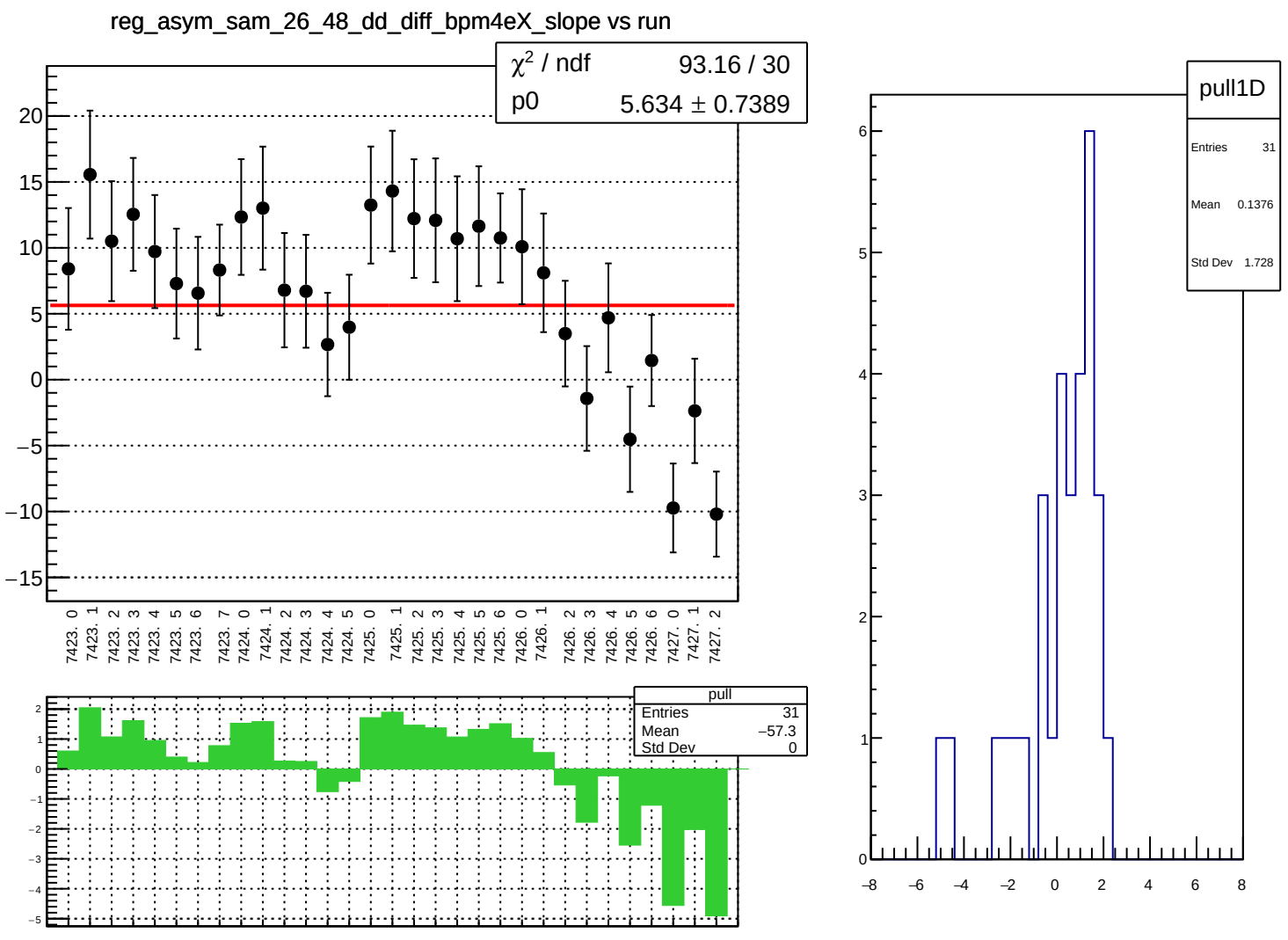

pull1D
Entries 31
Mean −0.0005315
Std Dev 0.532
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

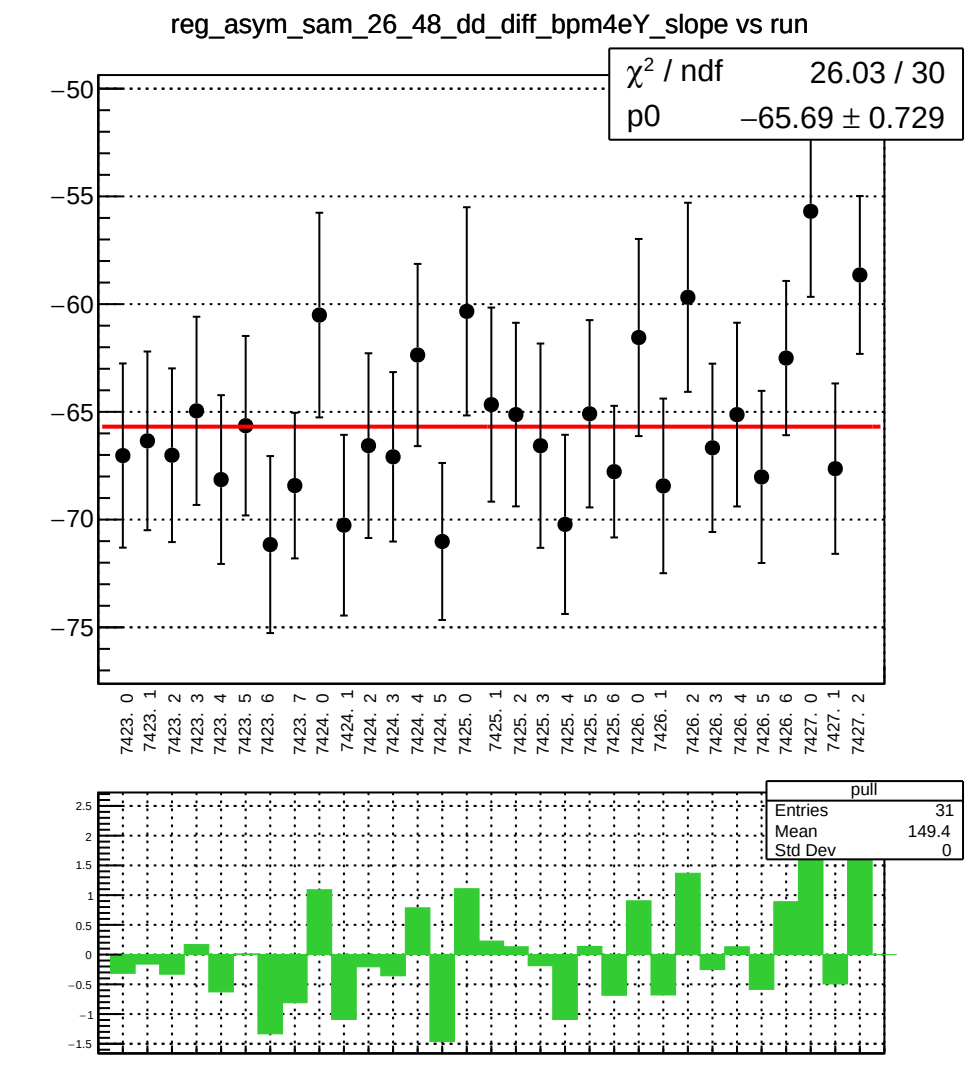

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 2.927 / 30
p0 0.4274 ± 0.0464
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 253.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean 0.001485
Std Dev 0.3073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

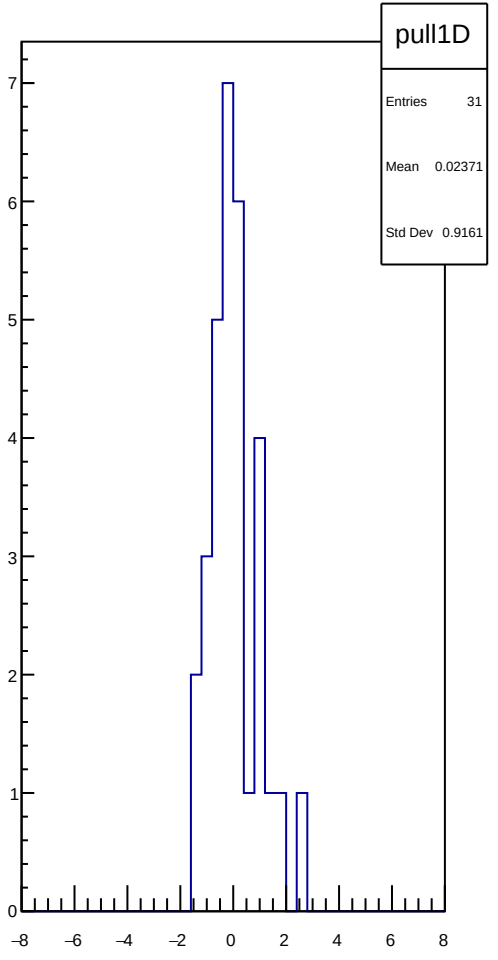

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 64.15 / 30
p0 25.91 ± 0.7147
40
35
30
25
20
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −58.27
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 31
Mean −0.1123
Std Dev 1.434
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

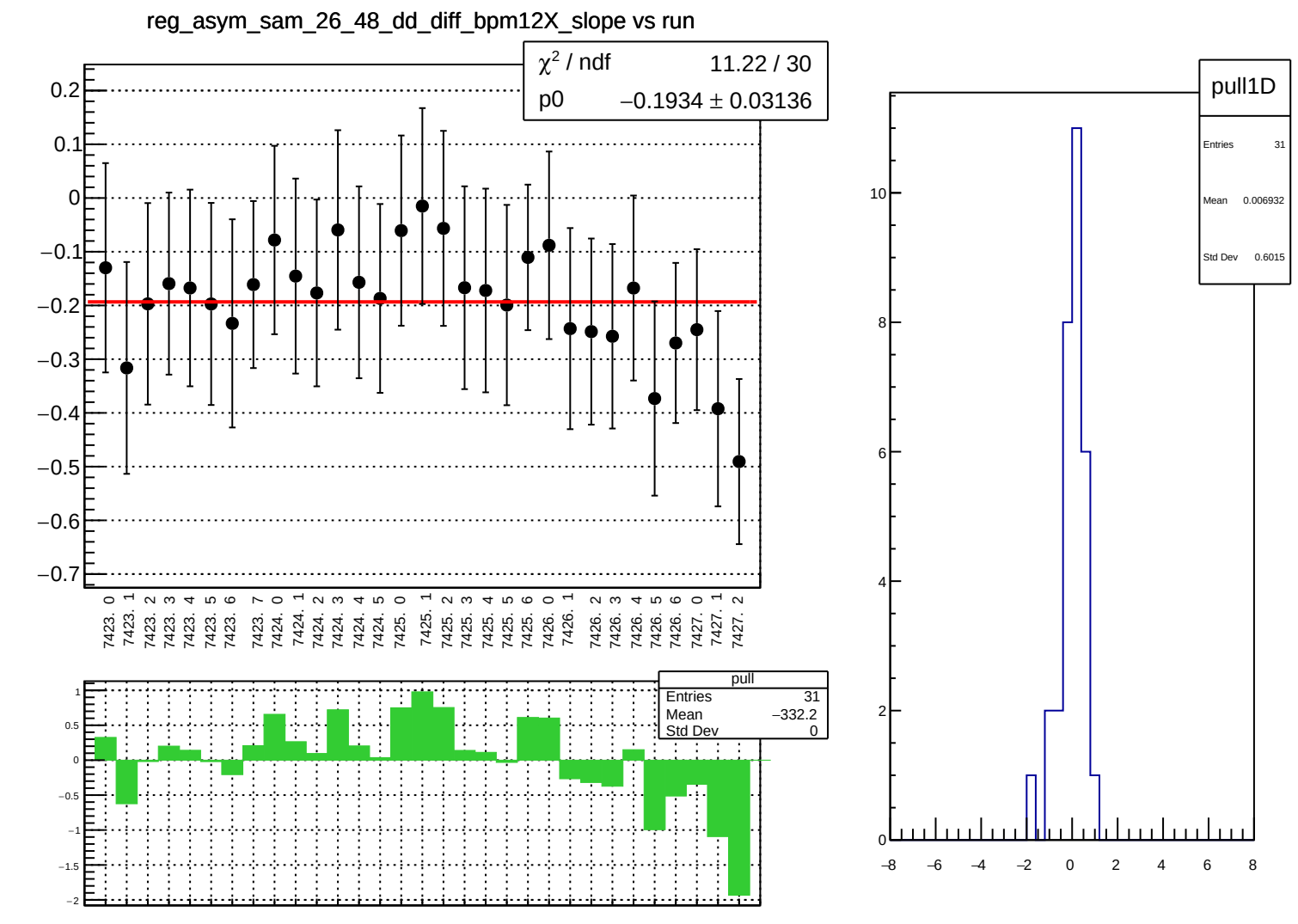

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.53 / 30
p0 −10.28 ± 0.6854
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 36.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

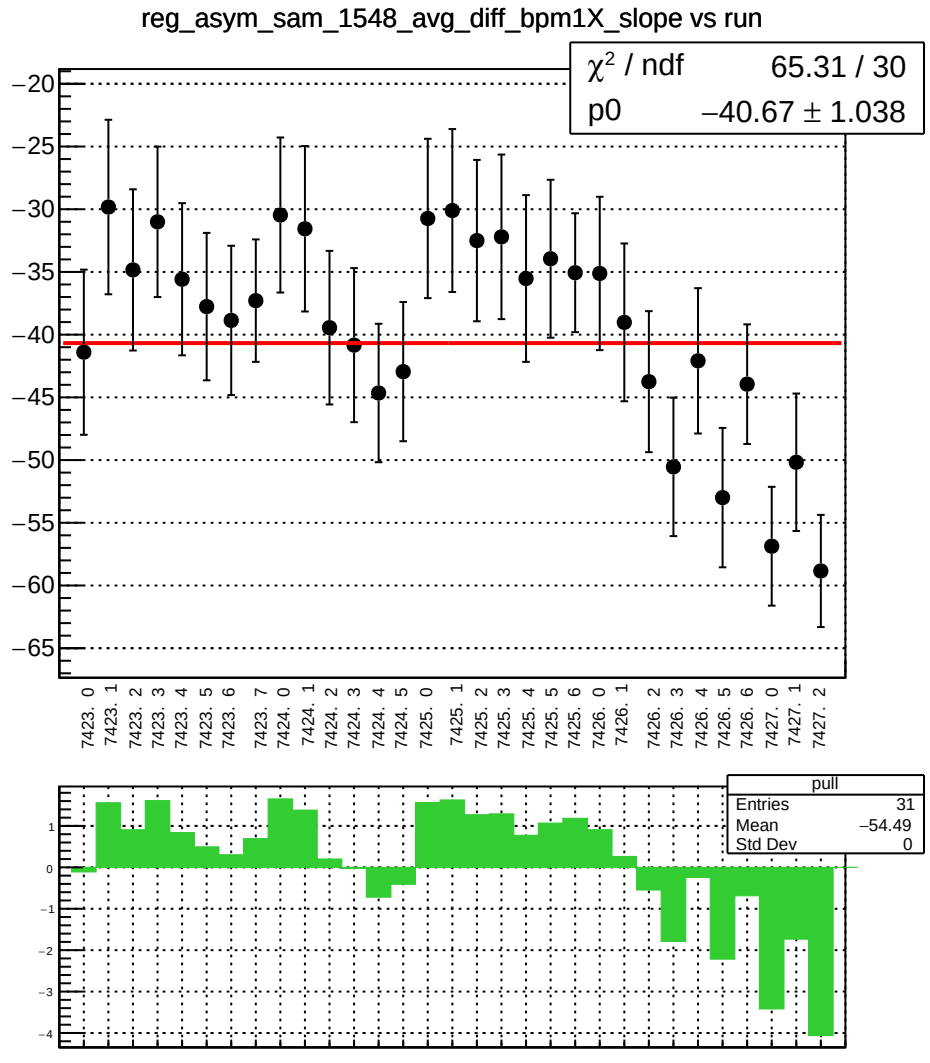

pull1D
Entries 31
Mean −0.08302
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

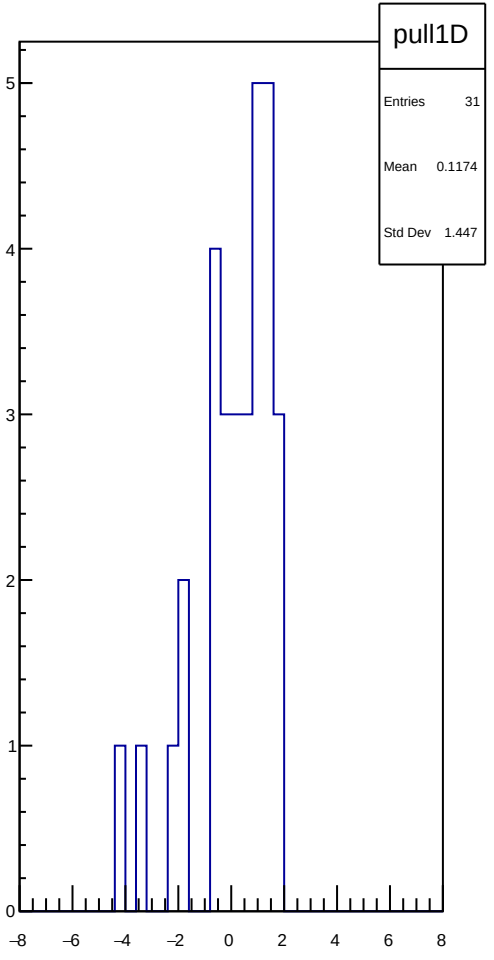

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.16 / 30
p0 5.634 ± 0.7389
20
15
10
5
0
−5
−10
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −57.3
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean 0.1376
Std Dev 1.728
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

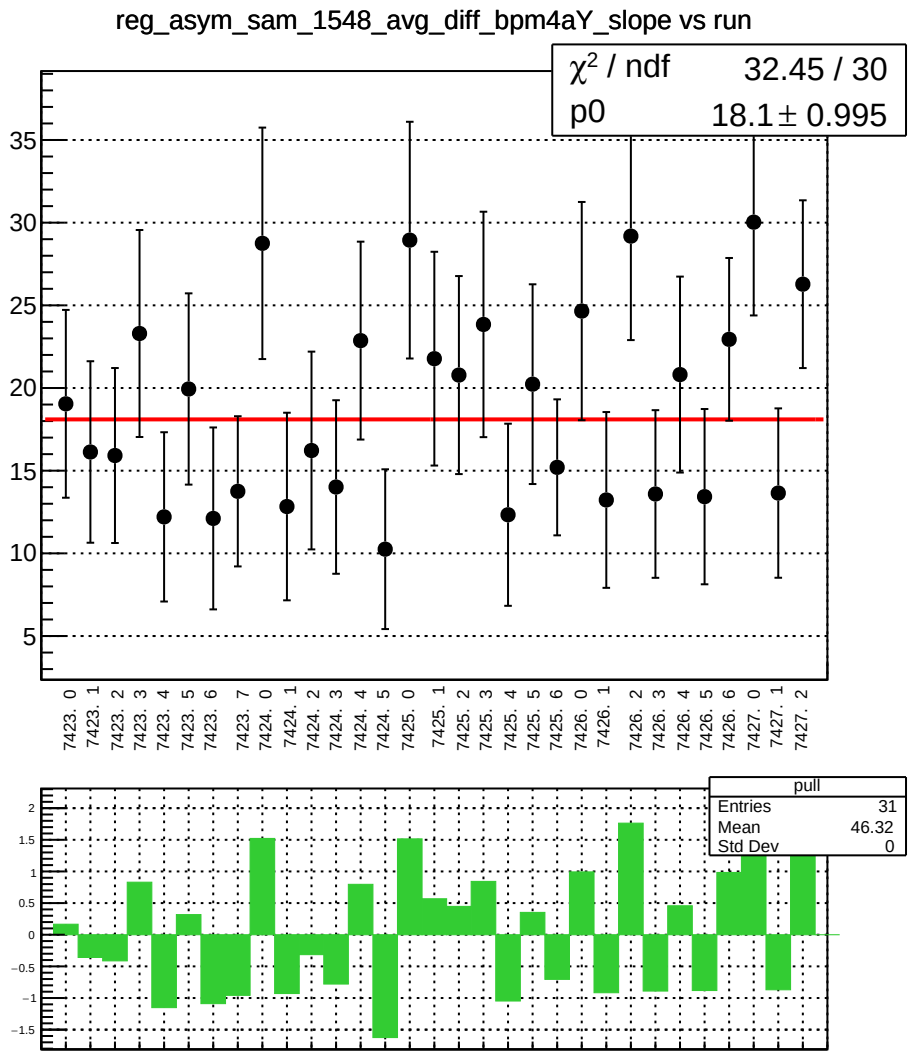

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.03 / 30
p0 −65.69 ± 0.729
−50
−55
−60
−65
−70
−75
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 149.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

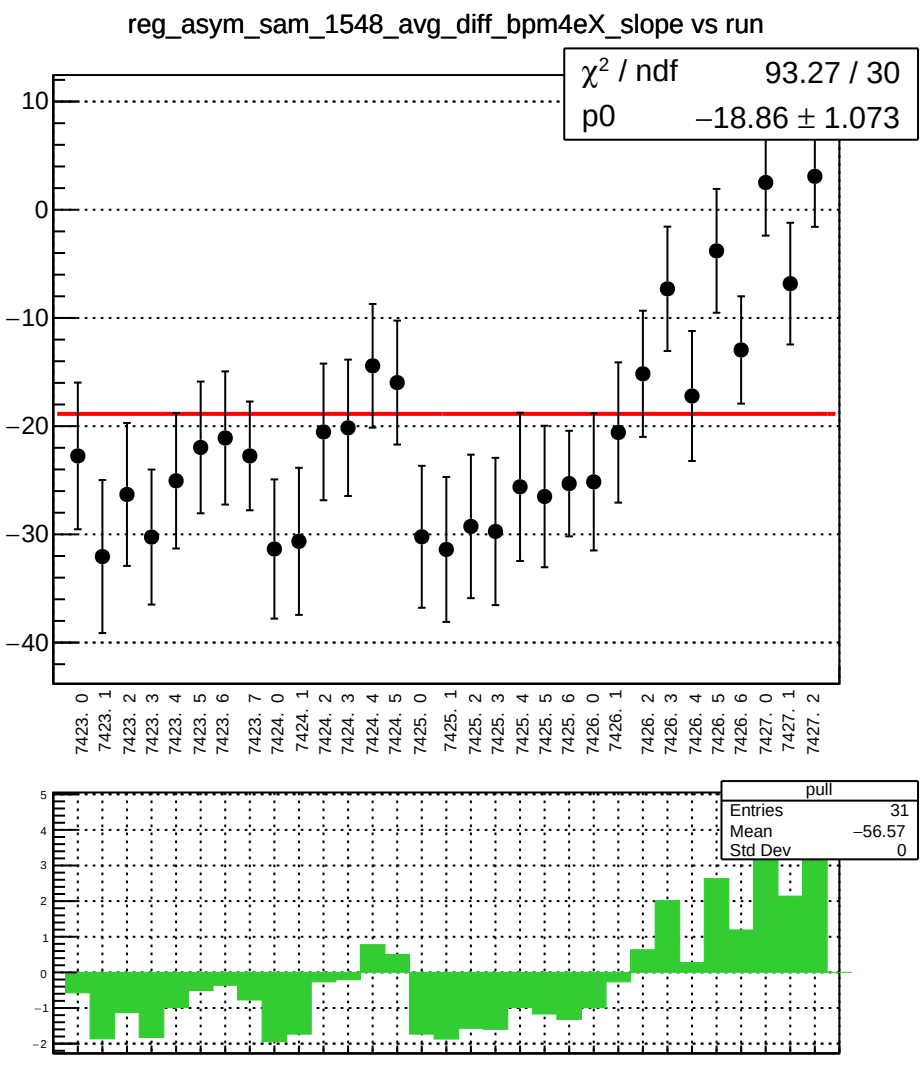

pull1D
Entries 31
Mean 0.02371
Std Dev 0.9161
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

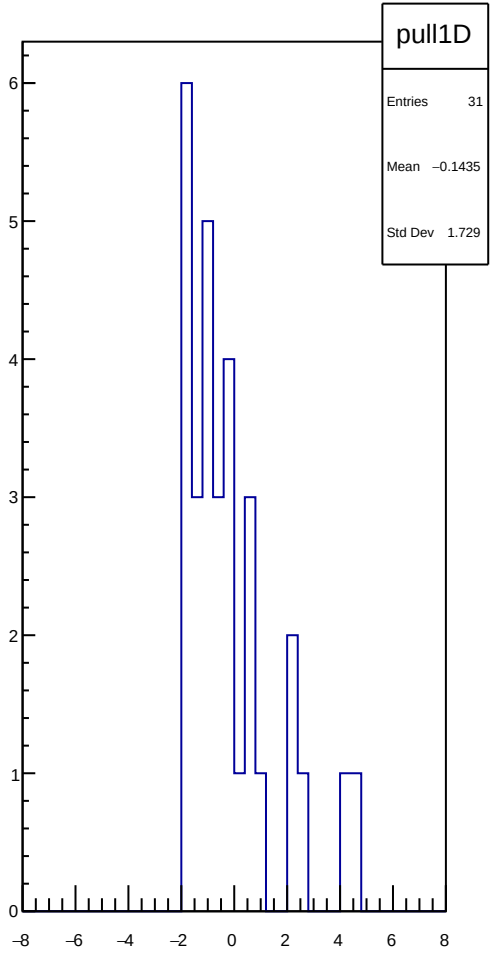

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 11.22 / 30
p0 −0.1934 ± 0.03136
pull
Entries 31
Mean −332.2
Std Dev 0
pull1D
Entries 31
Mean 0.006932
Std Dev 0.6015

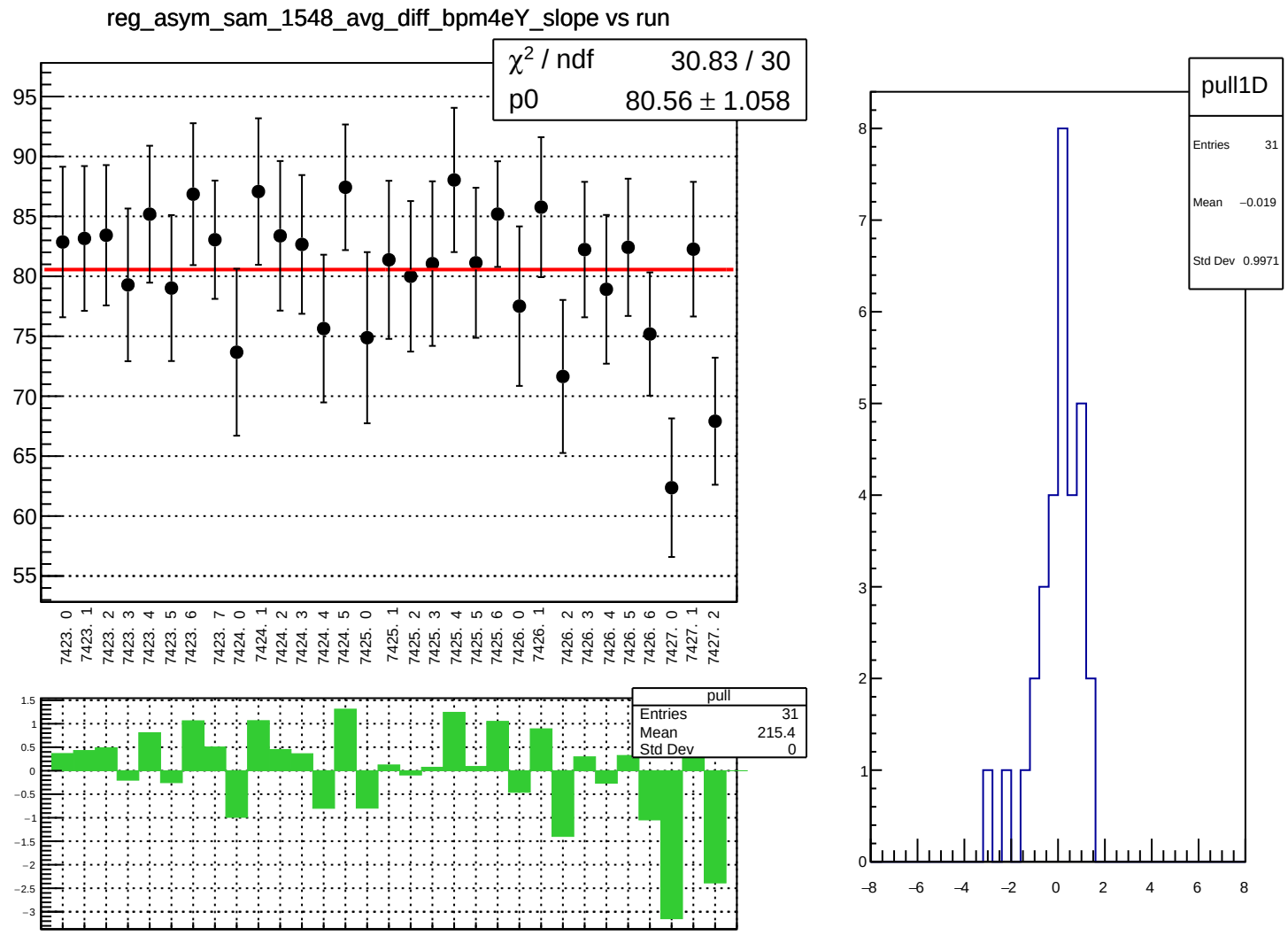

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 65.31 / 30
p0 −40.67 ± 1.038
−20
−25
−30
−35
−40
−45
−50
−55
−60
−65
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −54.49
Std Dev 0
1
0
−1
−2
−3
−4

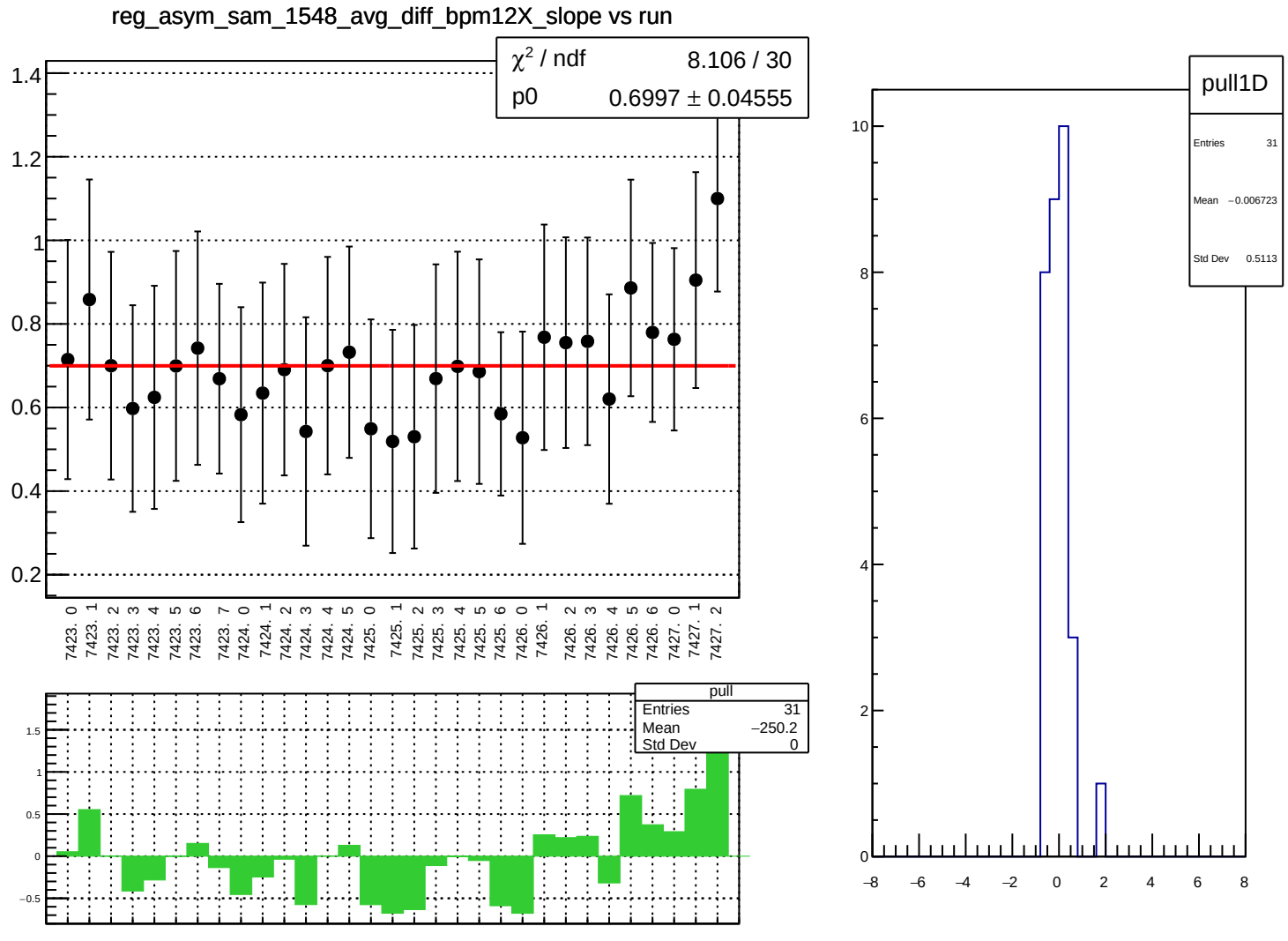

pull1D
Entries 31
Mean 0.1174
Std Dev 1.447
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

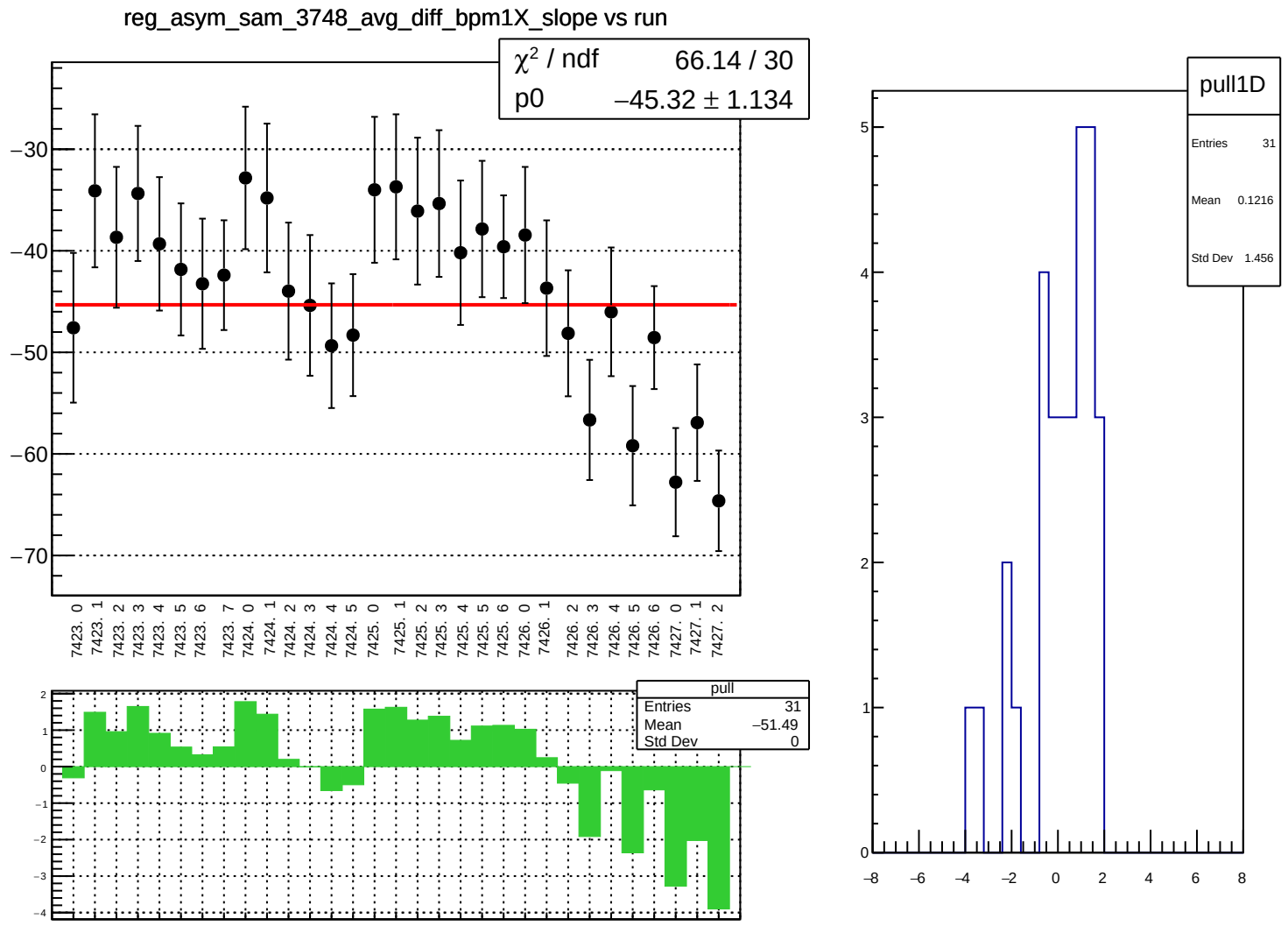

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.45 / 30
p0 18.1 ± 0.995
pull
Entries 31
Mean 46.32
Std Dev 0
pull1D
Entries 31
Mean 0.07593
Std Dev 1.02

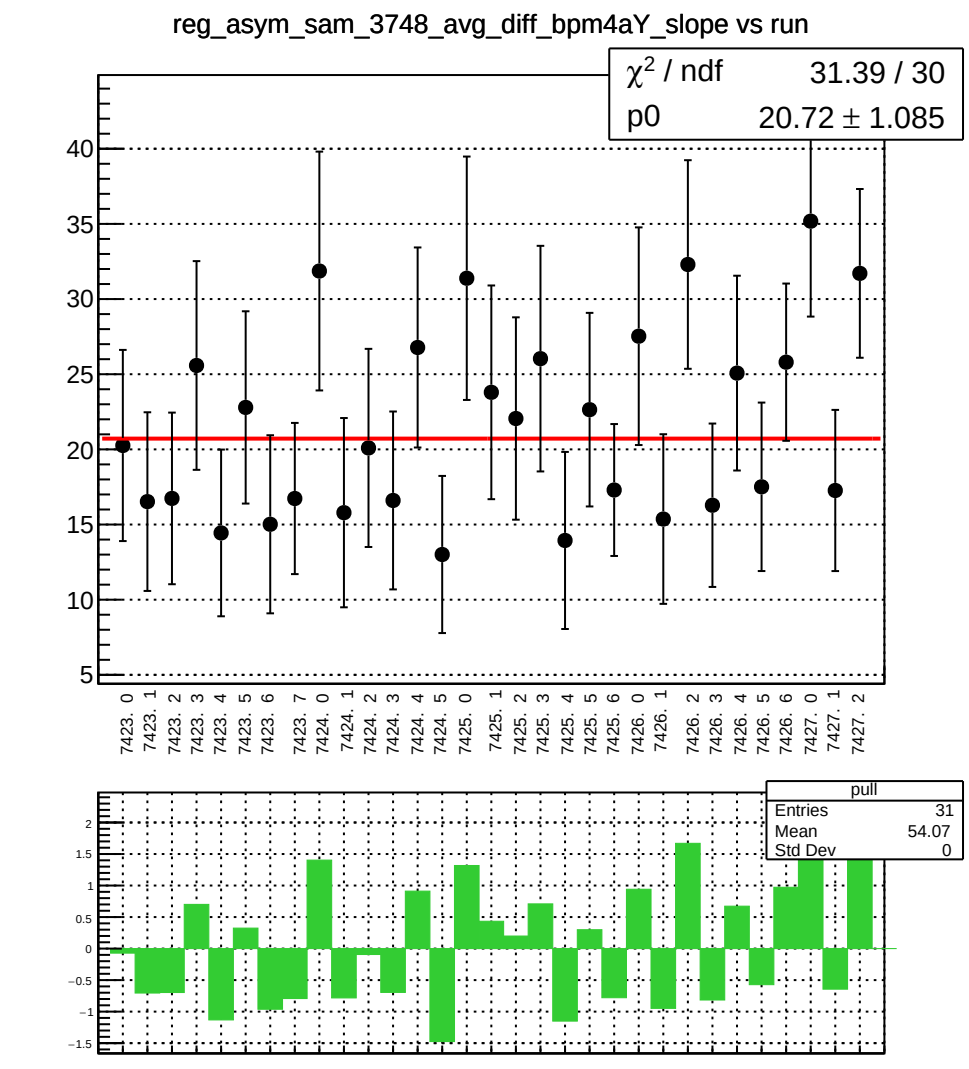

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 93.27 / 30
p0 −18.86 ± 1.073
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −56.57
Std Dev 0
5
4
3
2
1
0
−1
−2

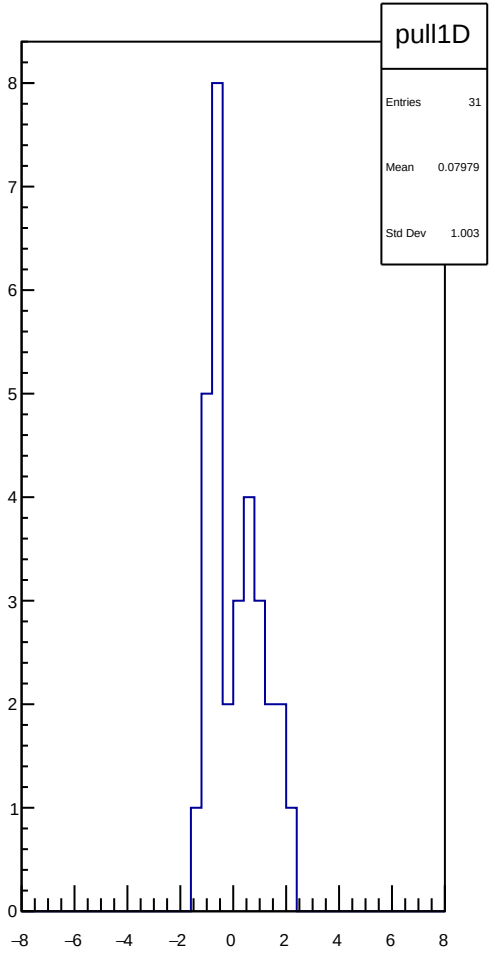

pull1D
Entries 31
Mean −0.1435
Std Dev 1.729
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

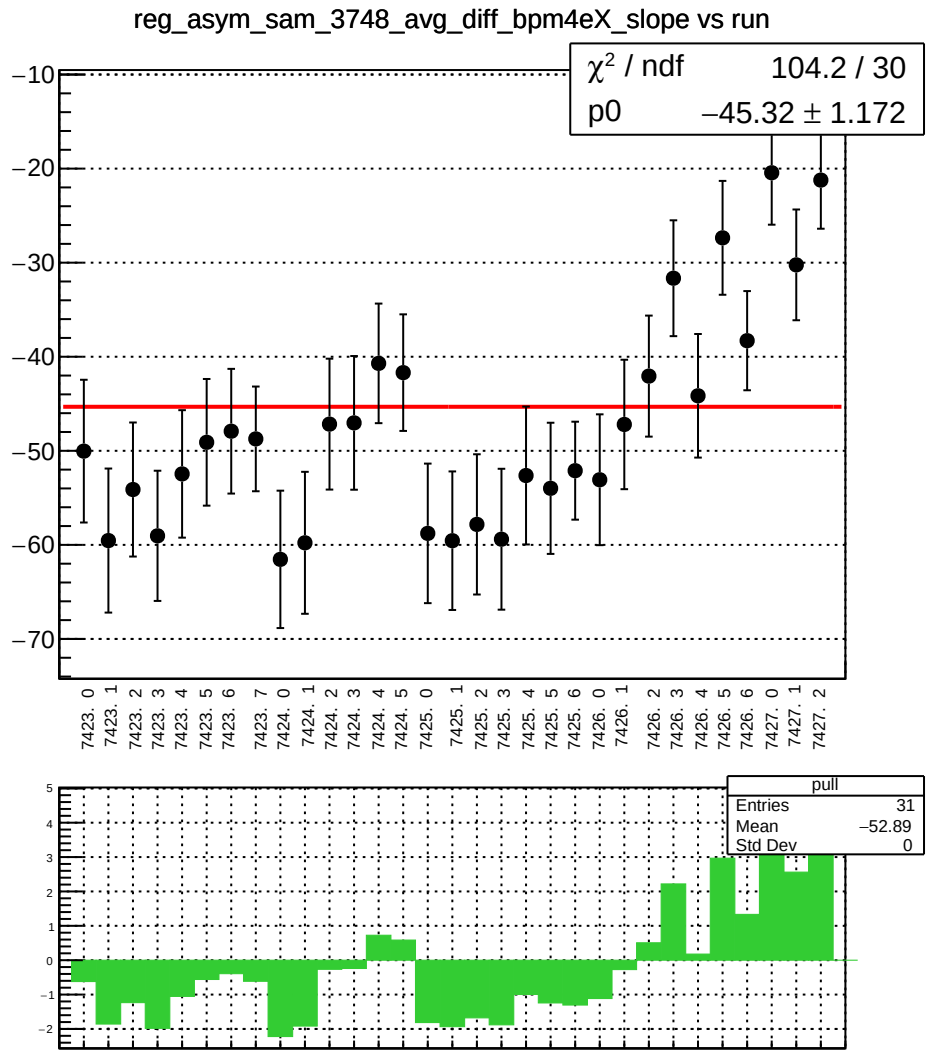

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.83 / 30
p0 80.56 ± 1.058
95
90
85
80
75
70
65
60
55
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 215.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 31
Mean −0.019
Std Dev 0.9971
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

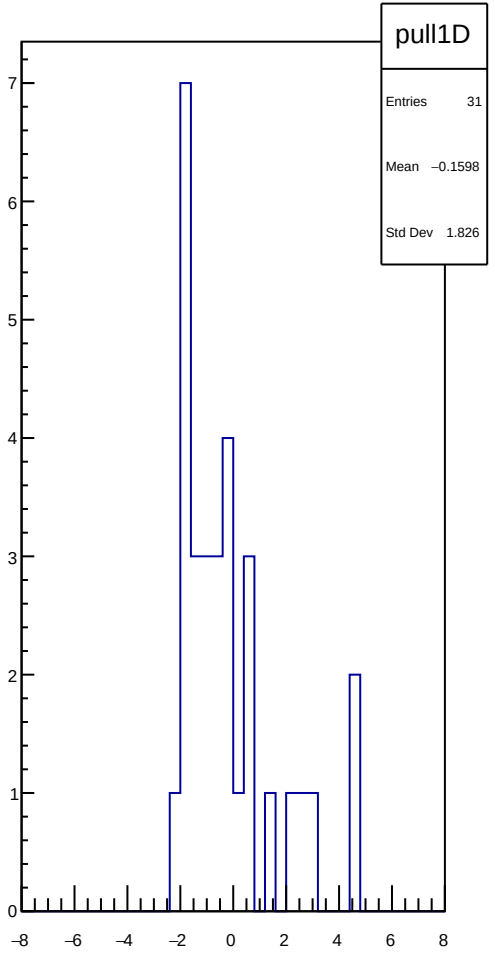

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 8.106 / 30
p0 0.6997 ± 0.04555
1.4
1.2
1
0.8
0.6
0.4
0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −250.2
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 31
Mean −0.006723
Std Dev 0.5113
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

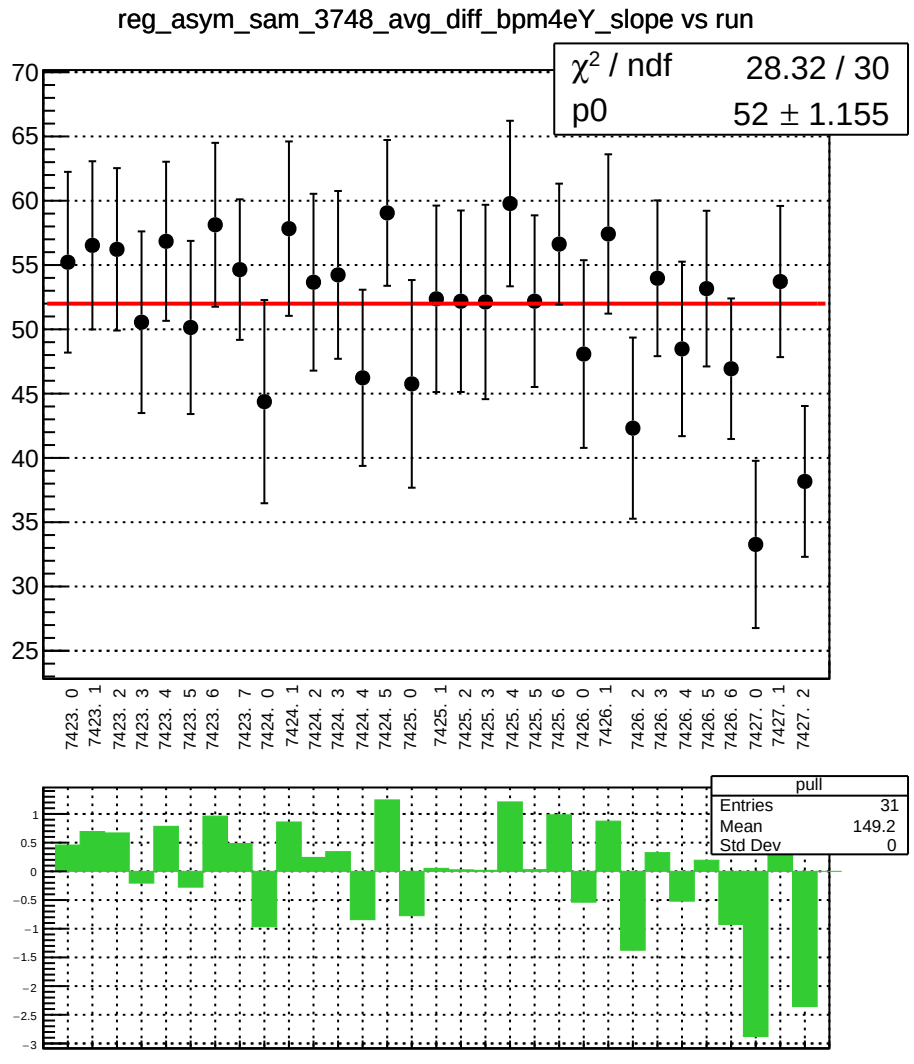

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 66.14 / 30
p0 −45.32 ± 1.134
−30
−40
−50
−60
−70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −51.49
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.1216
Std Dev 1.456
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

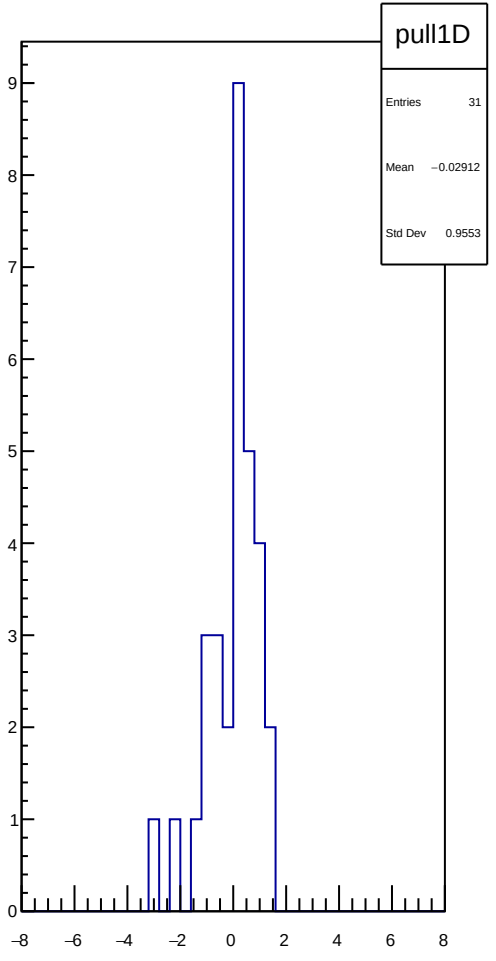

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.39 / 30
p0 20.72 ± 1.085
40
35
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 54.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

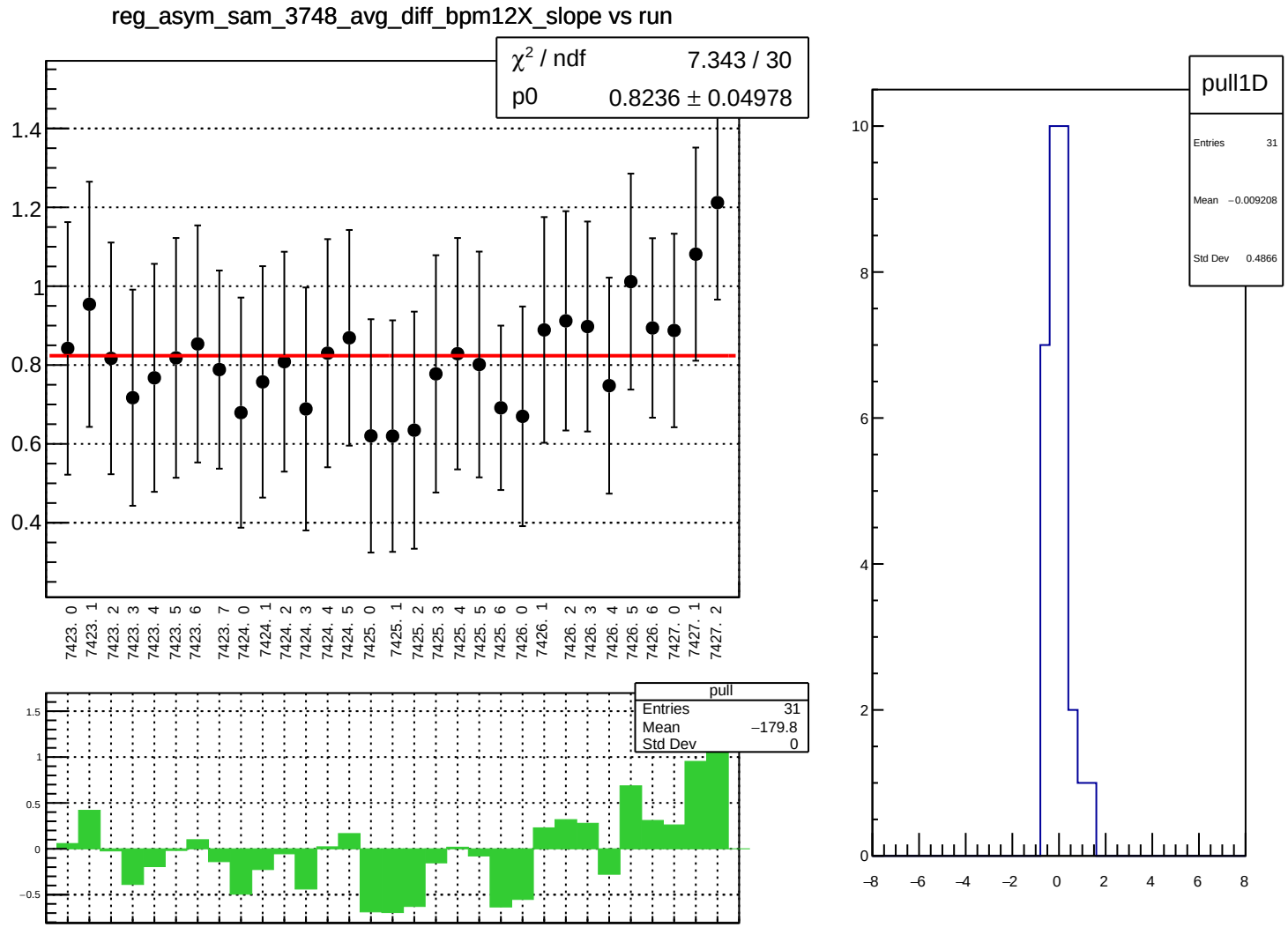

pull1D
Entries 31
Mean 0.07979
Std Dev 1.003
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

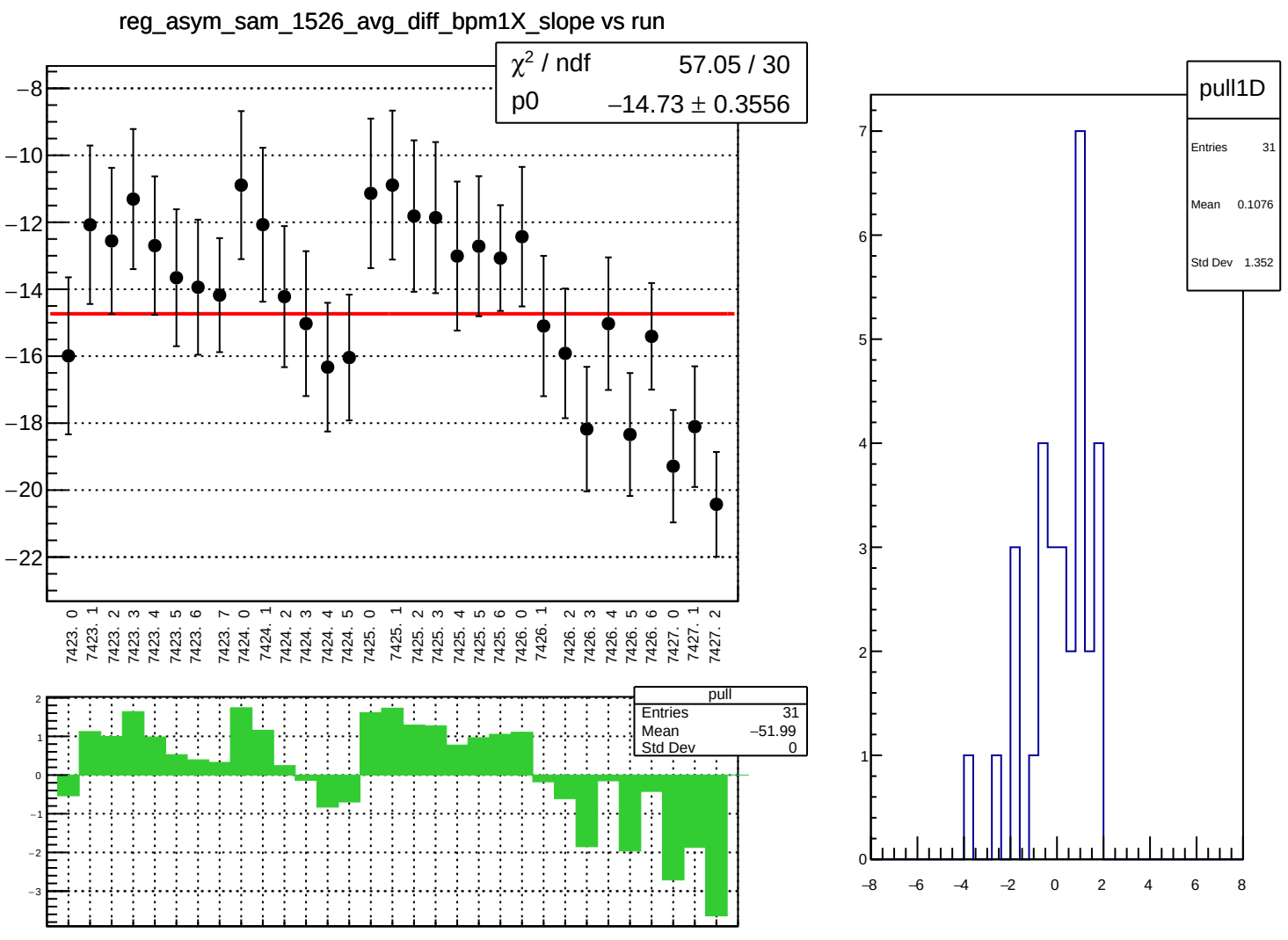

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.2 / 30
p0 −45.32 ± 1.172
−10
−20
−30
−40
−50
−60
−70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −52.89
Std Dev 0
5
4
3
2
1
0
−1
−2

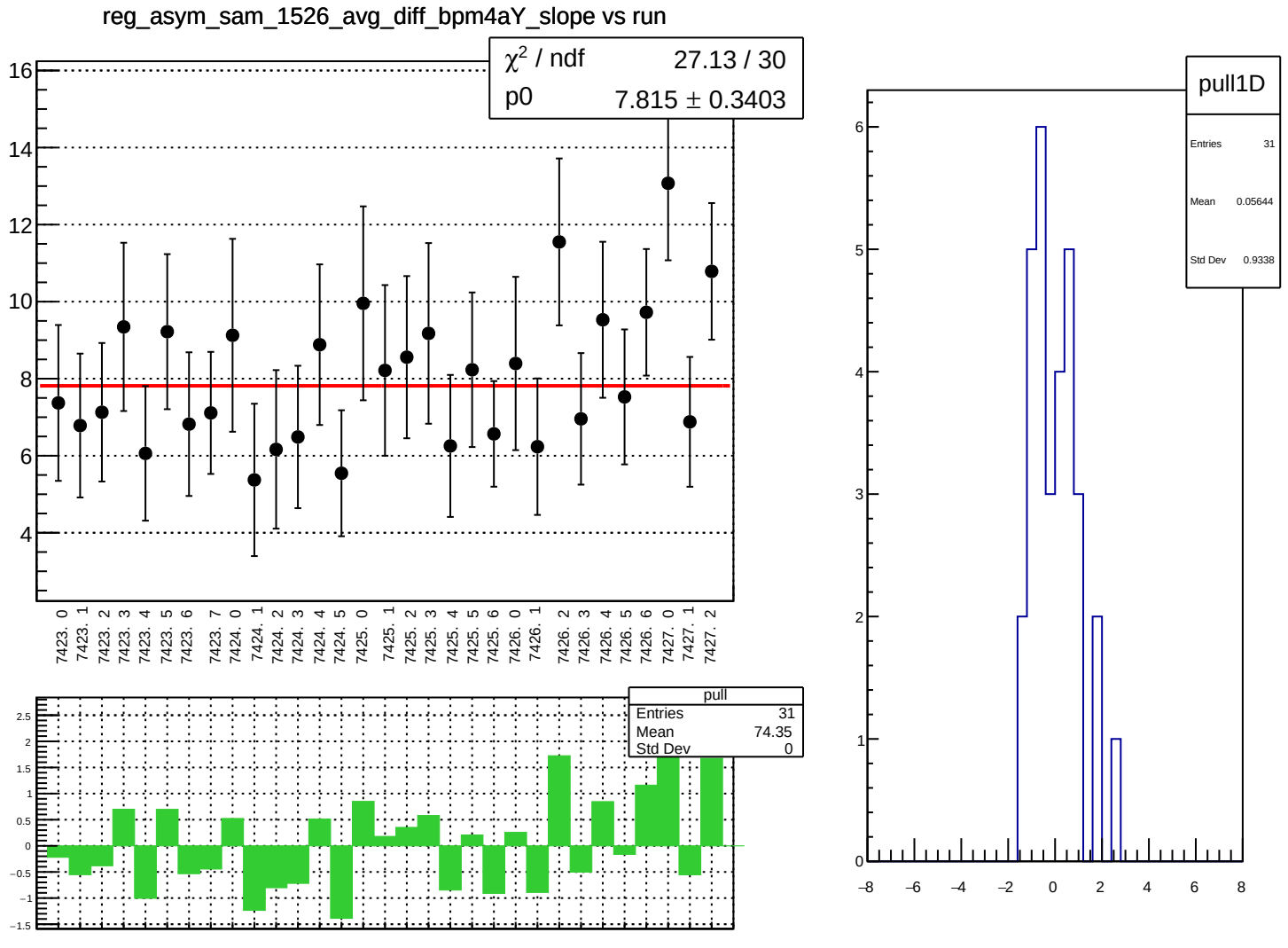

pull1D
Entries 31
Mean −0.1598
Std Dev 1.826
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

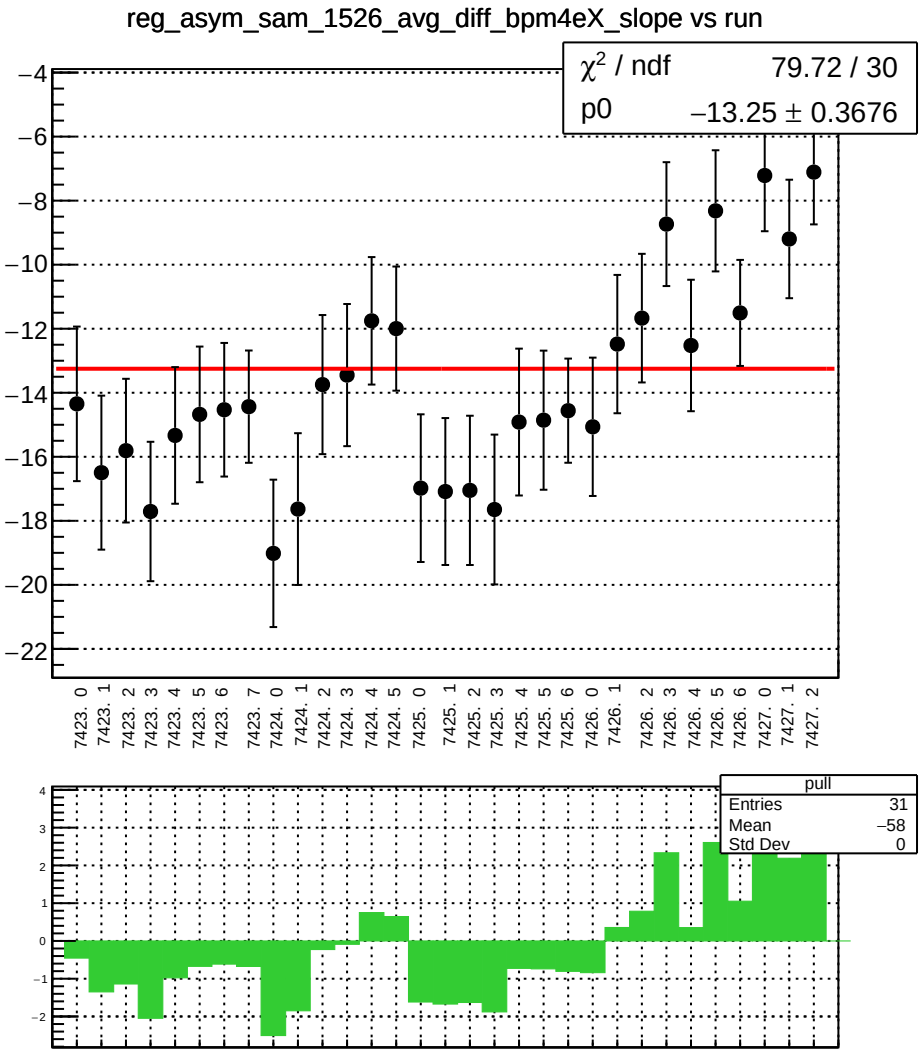

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.32 / 30
p0 52 ± 1.155
pull
Entries 31
Mean 149.2
Std Dev 0

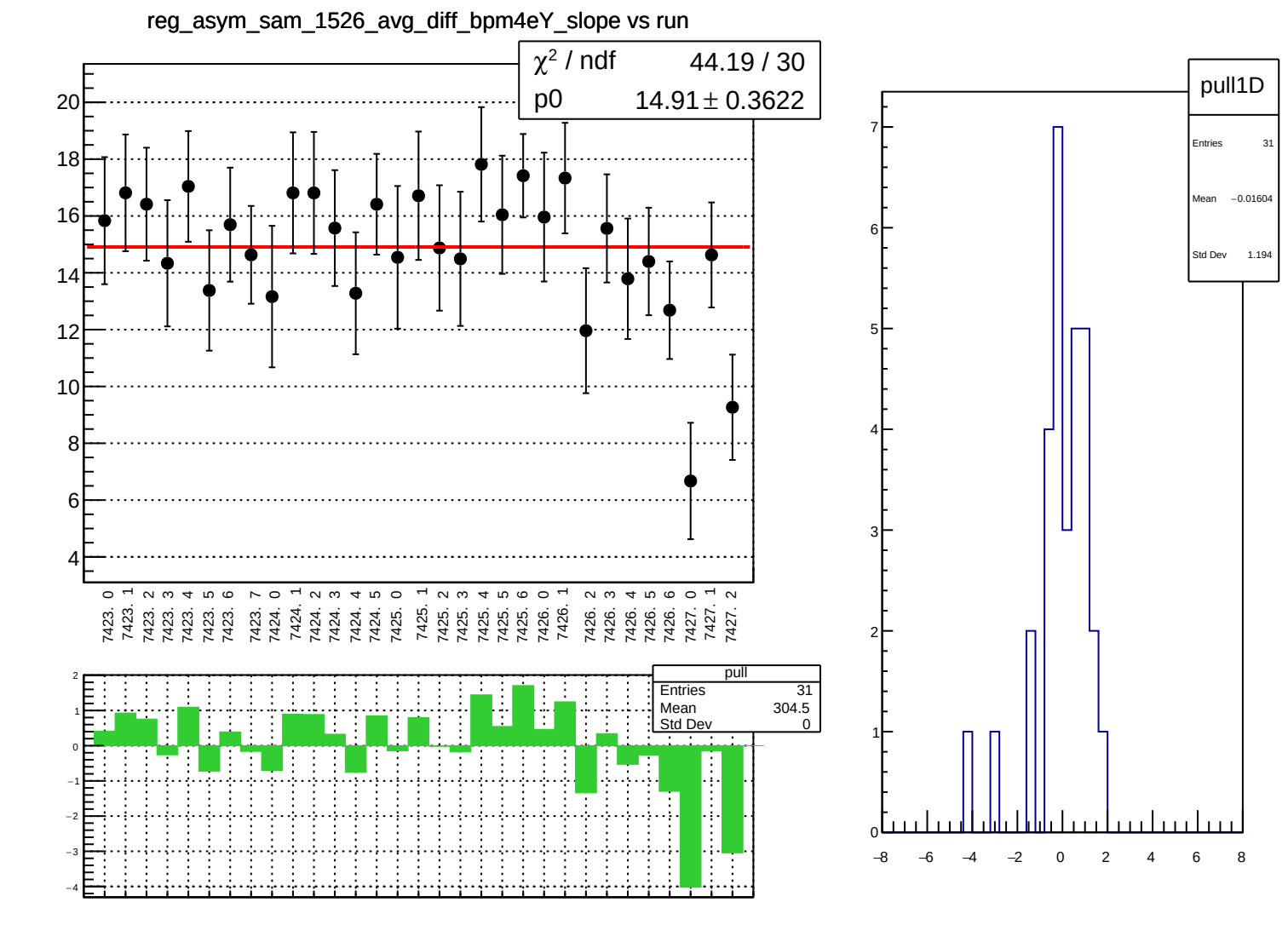

pull1D
Entries 31
Mean −0.02912
Std Dev 0.9553

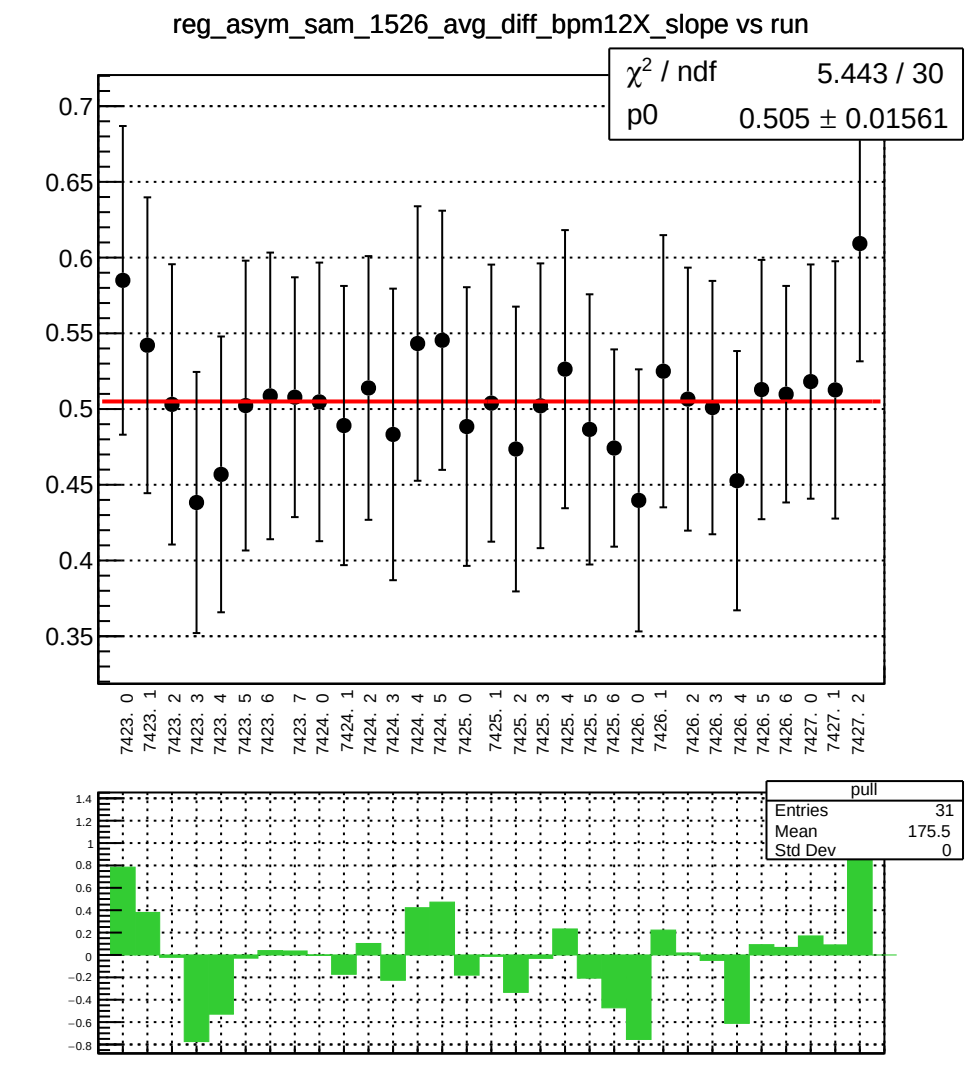

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 7.343 / 30
p0 0.8236 ± 0.04978
1.4
1.2
1
0.8
0.6
0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −179.8
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 31
Mean −0.009208
Std Dev 0.4866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

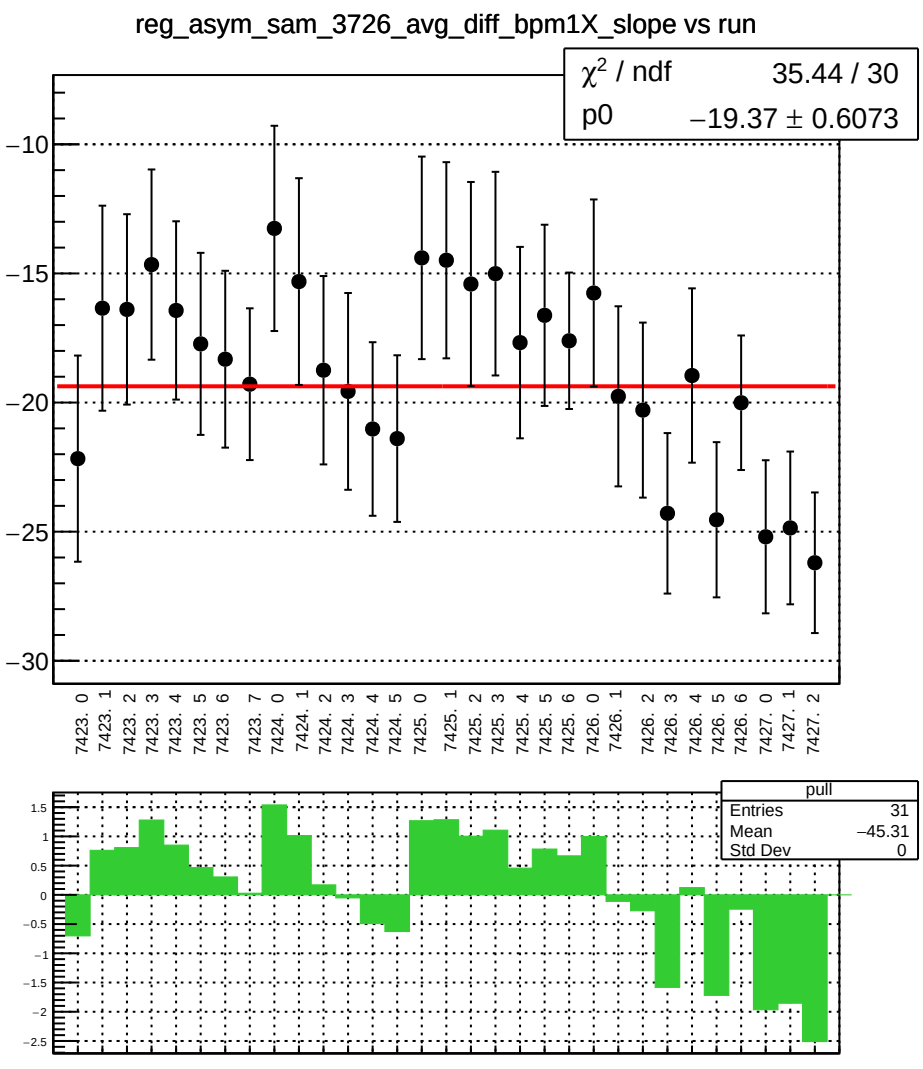

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 57.05 / 30
p0 −14.73 ± 0.3556
−8
−10
−12
−14
−16
−18
−20
−22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −51.99
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.1076
Std Dev 1.352
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

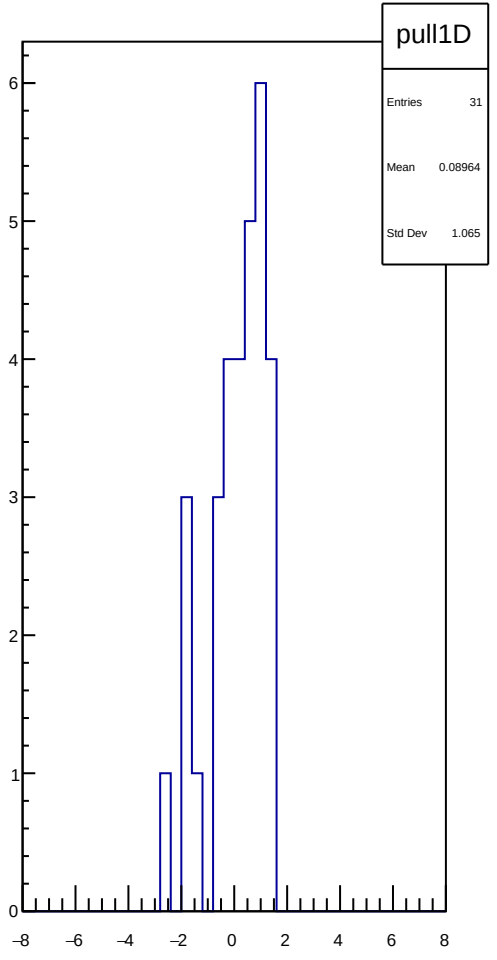

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.13 / 30
p0 7.815 ± 0.3403
16
14
12
10
8
6
4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 74.35
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.05644
Std Dev 0.9338
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

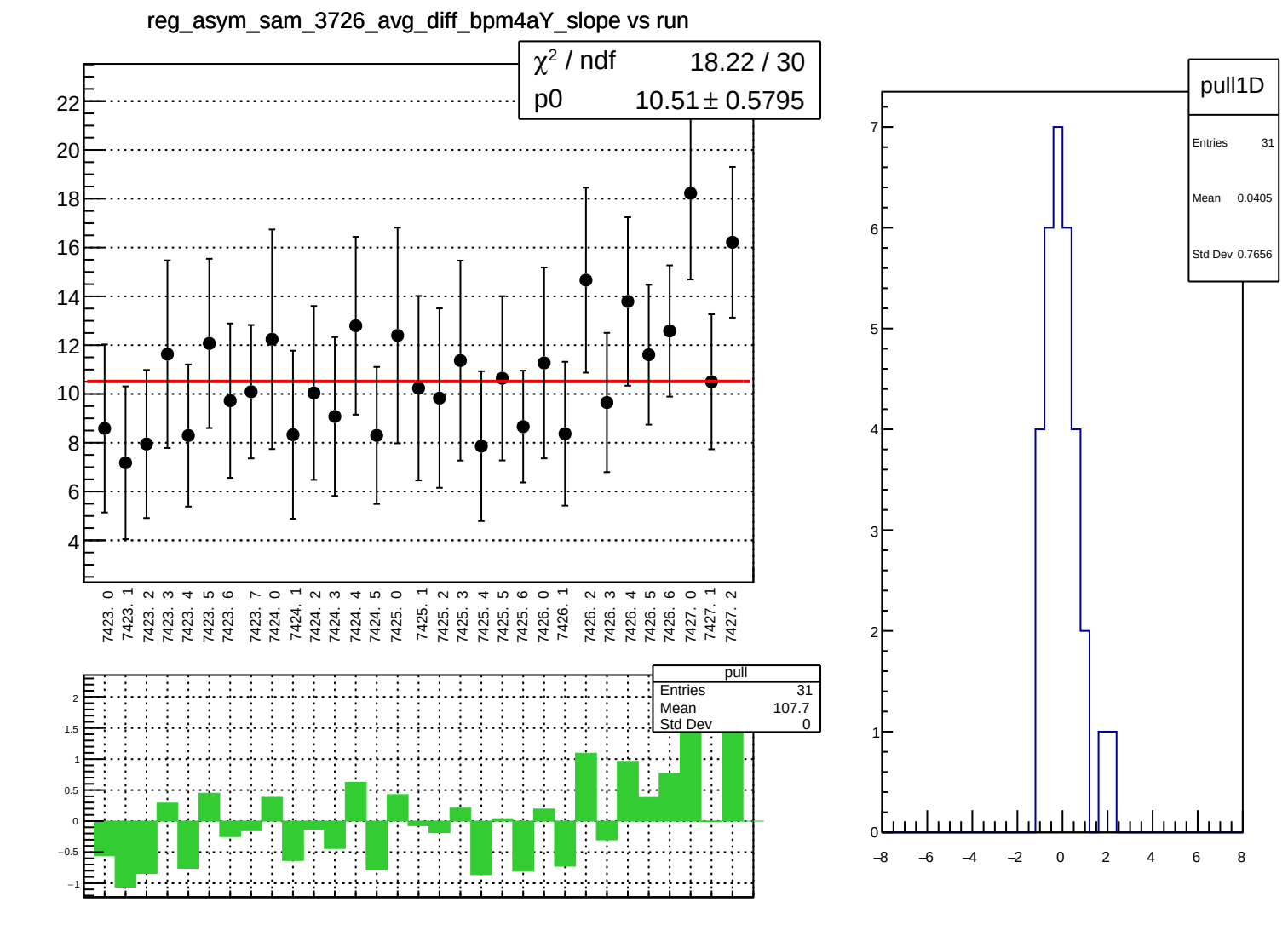

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.72 / 30
p0 −13.25 ± 0.3676
pull
Entries 31
Mean −58
Std Dev 0
pull1D
Entries 31
Mean −0.1356
Std Dev 1.598

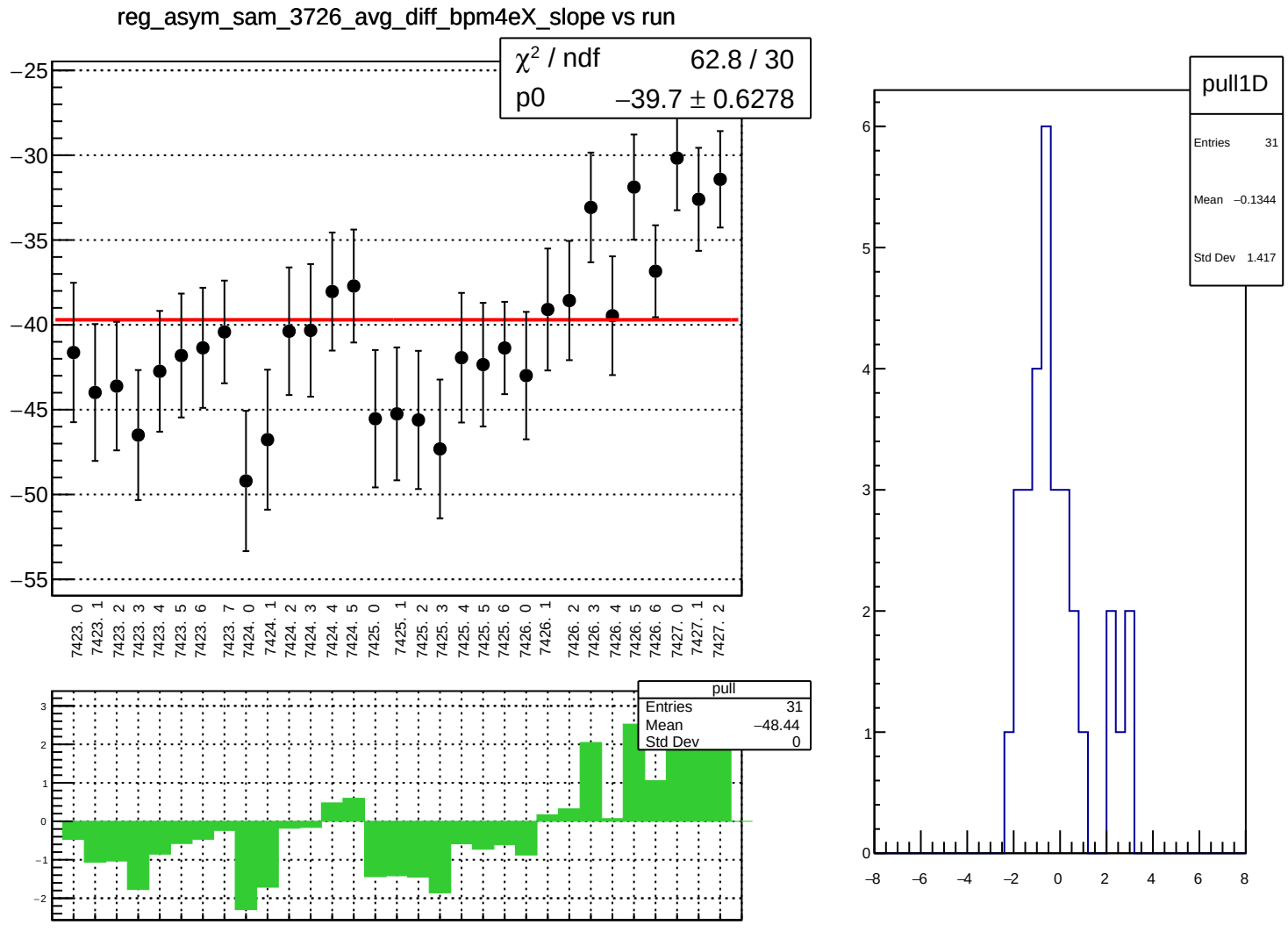

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.19 / 30
p0 14.91 ± 0.3622
pull
Entries 31
Mean 304.5
Std Dev 0
pull1D
Entries 31
Mean −0.01604
Std Dev 1.194

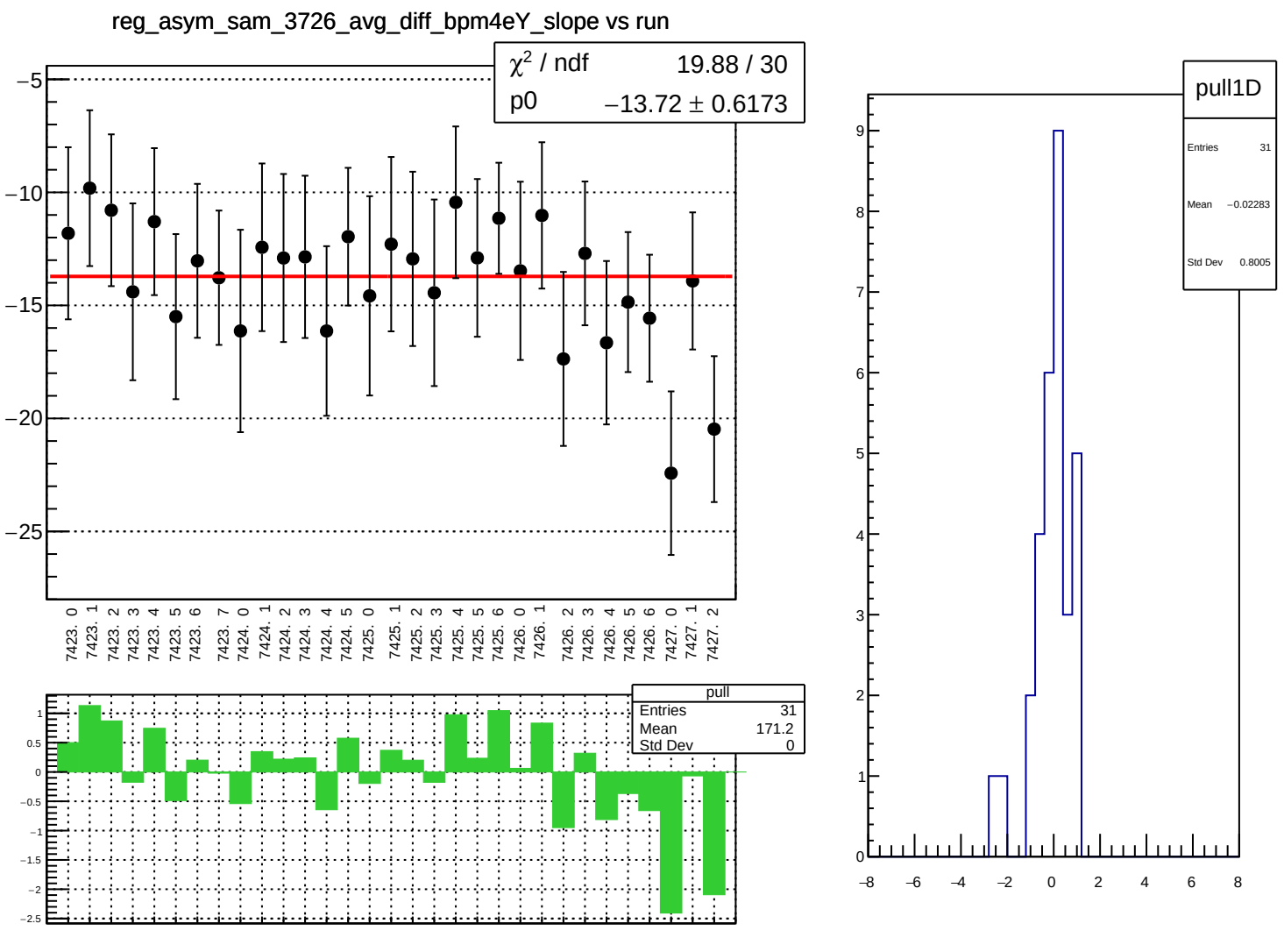

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 5.443 / 30
p0 0.505 ± 0.01561
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 175.5
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 31
Mean 0.002113
Std Dev 0.419
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

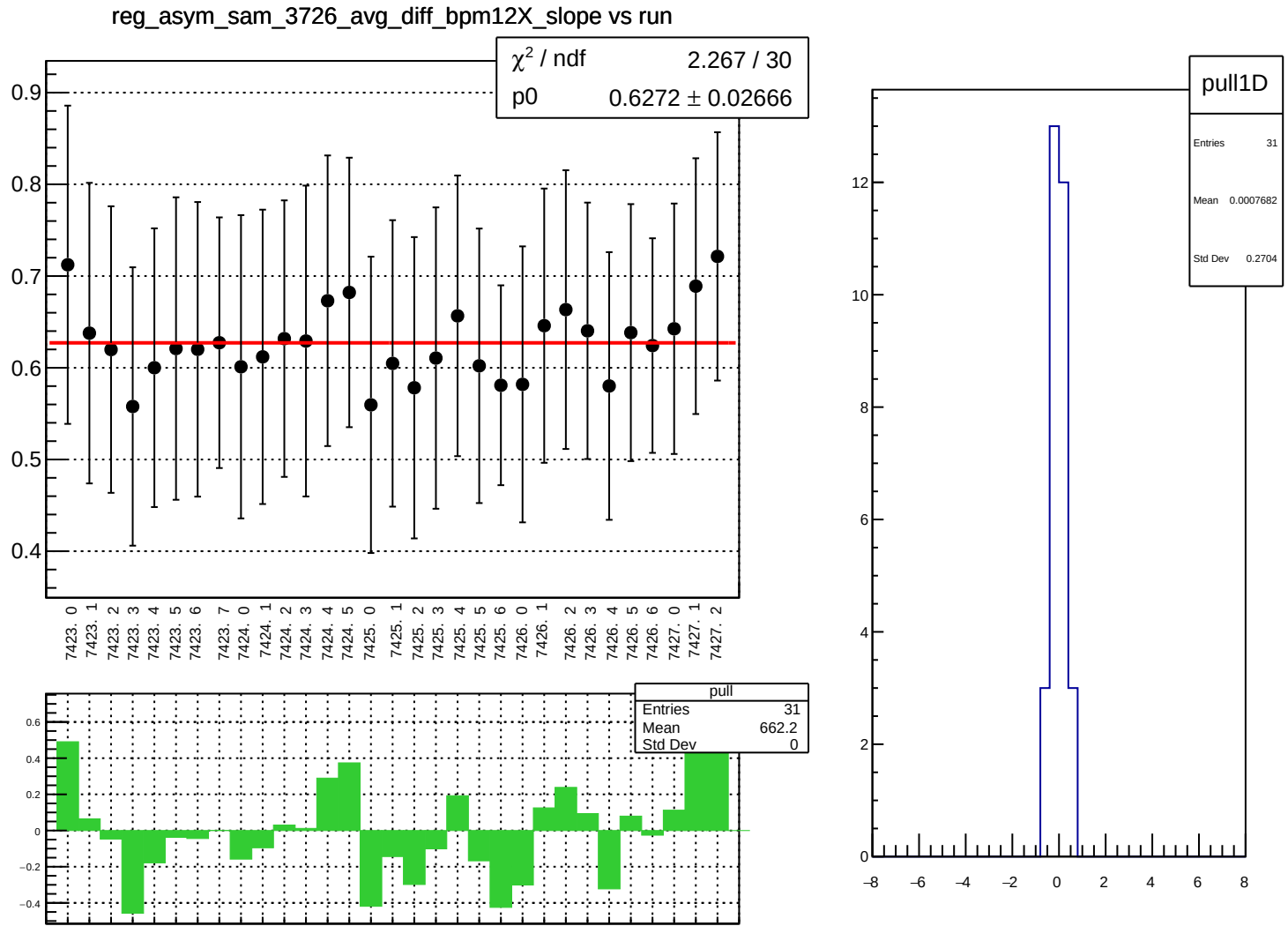

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 35.44 / 30
p0 −19.37 ± 0.6073
−10
−15
−20
−25
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −45.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

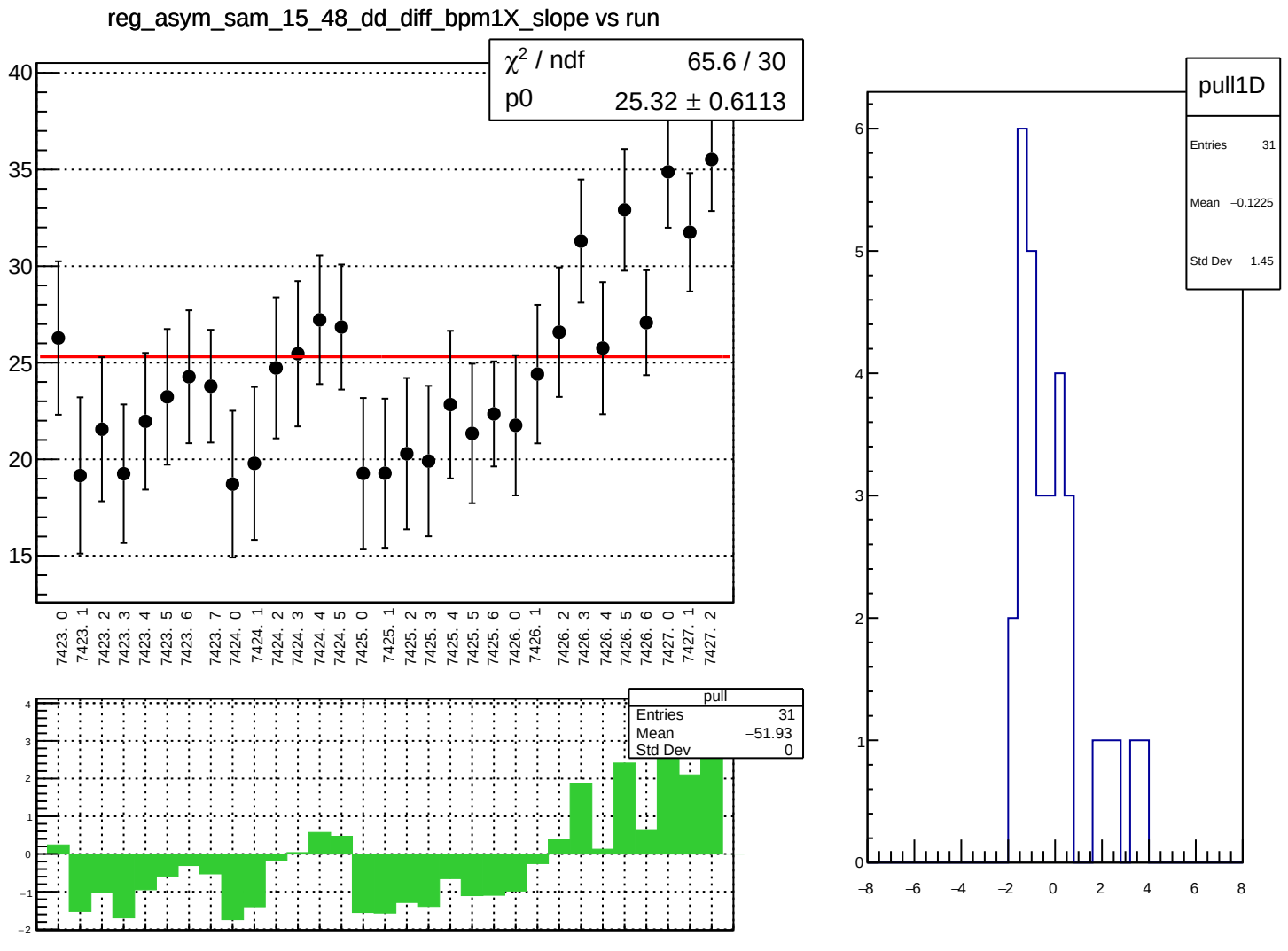

pull1D
Entries 31
Mean 0.08964
Std Dev 1.065
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

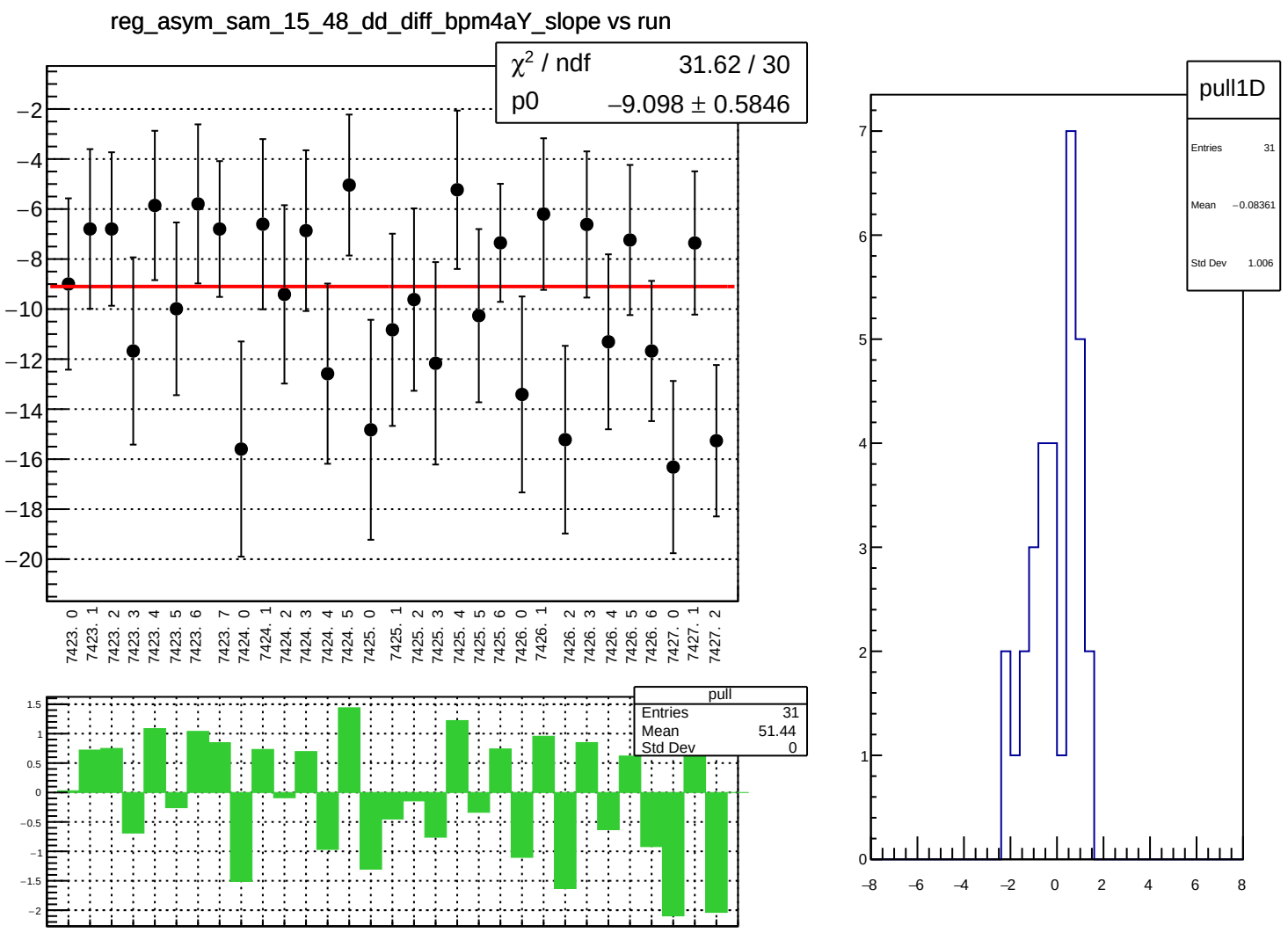

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.22 / 30
p0 10.51 ± 0.5795
pull
Entries 31
Mean 107.7
Std Dev 0
pull1D
Entries 31
Mean 0.0405
Std Dev 0.7656

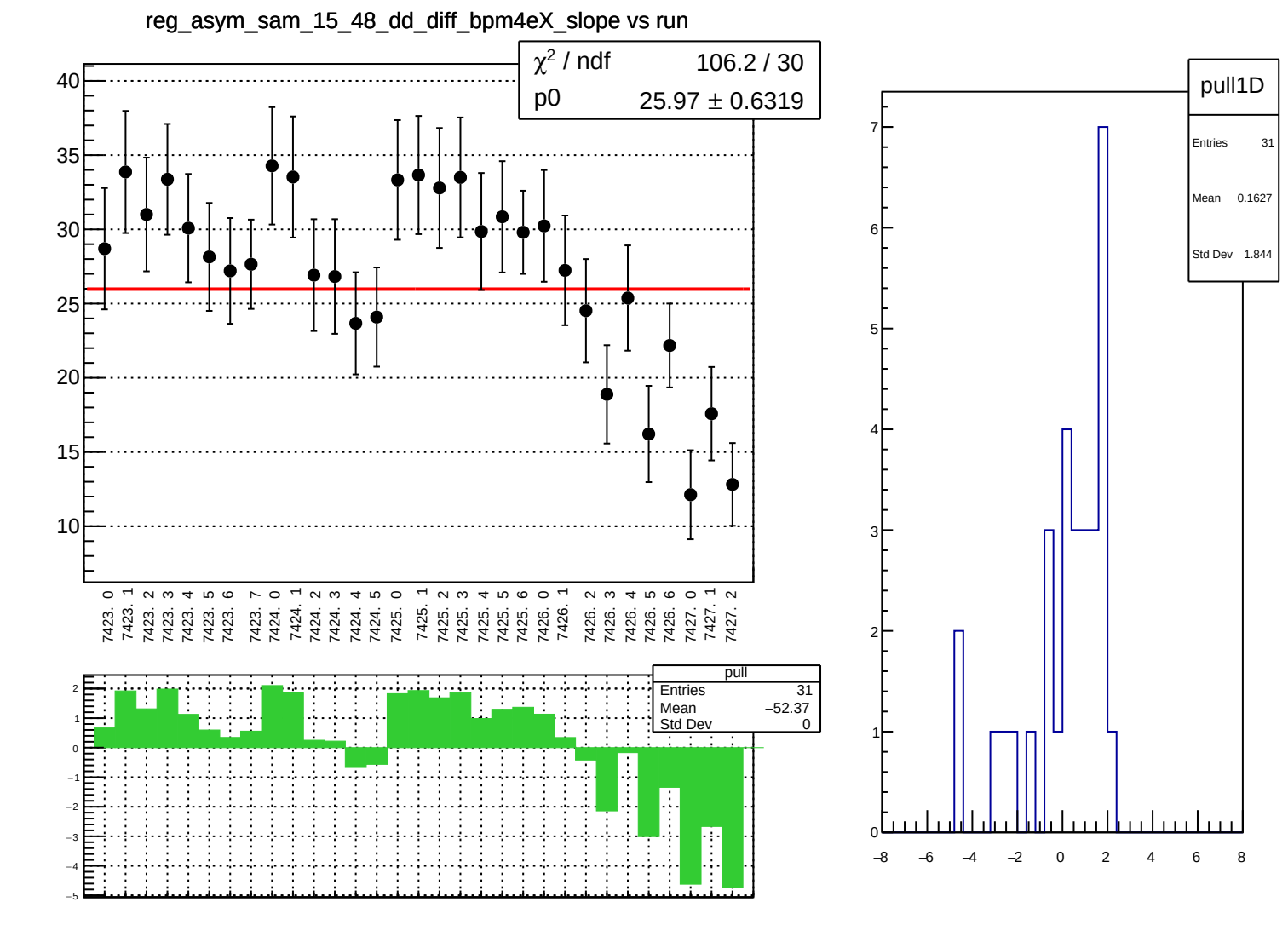

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.8 / 30
p0 −39.7 ± 0.6278
−25
−30
−35
−40
−45
−50
−55
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −48.44
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.1344
Std Dev 1.417
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

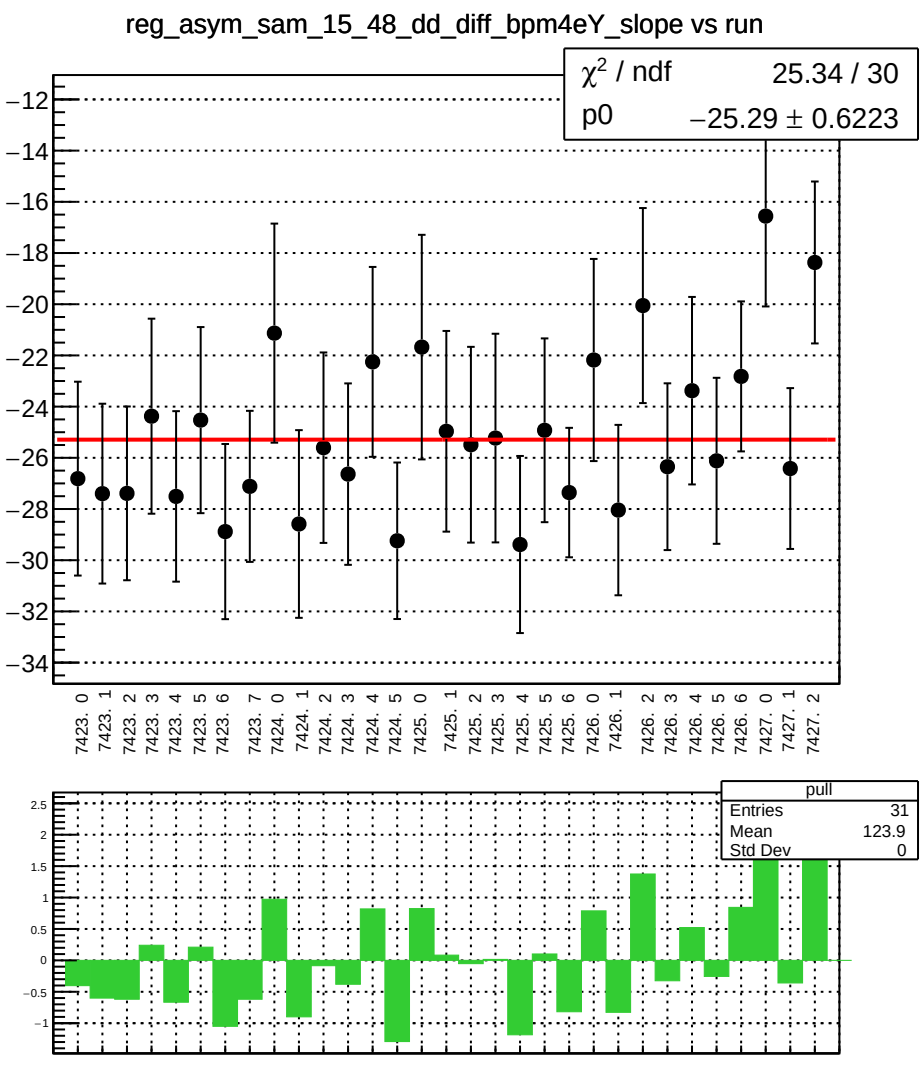

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.88 / 30
p0 −13.72 ± 0.6173
pull
Entries 31
Mean 171.2
Std Dev 0
pull1D
Entries 31
Mean −0.02283
Std Dev 0.8005

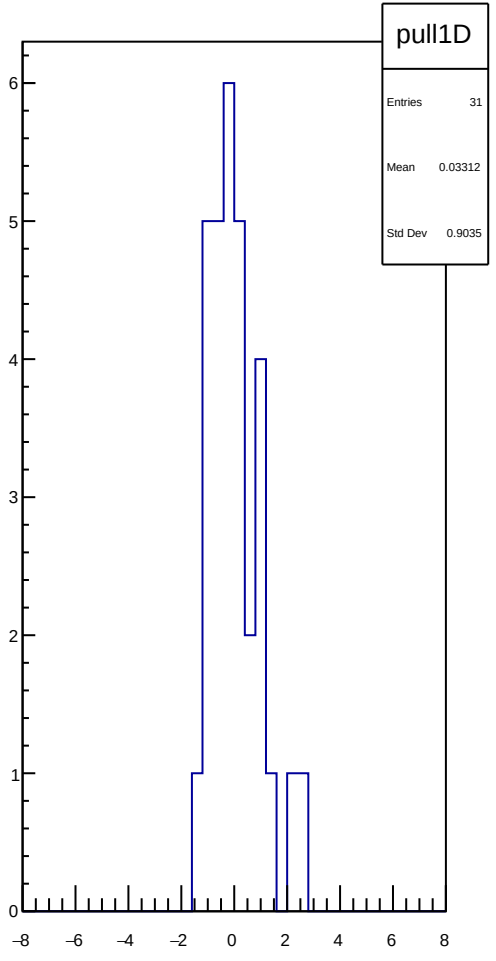

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.267 / 30
p0 0.6272 ± 0.02666
0.9
0.8
0.7
0.6
0.5
0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 662.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 31
Mean 0.0007682
Std Dev 0.2704
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

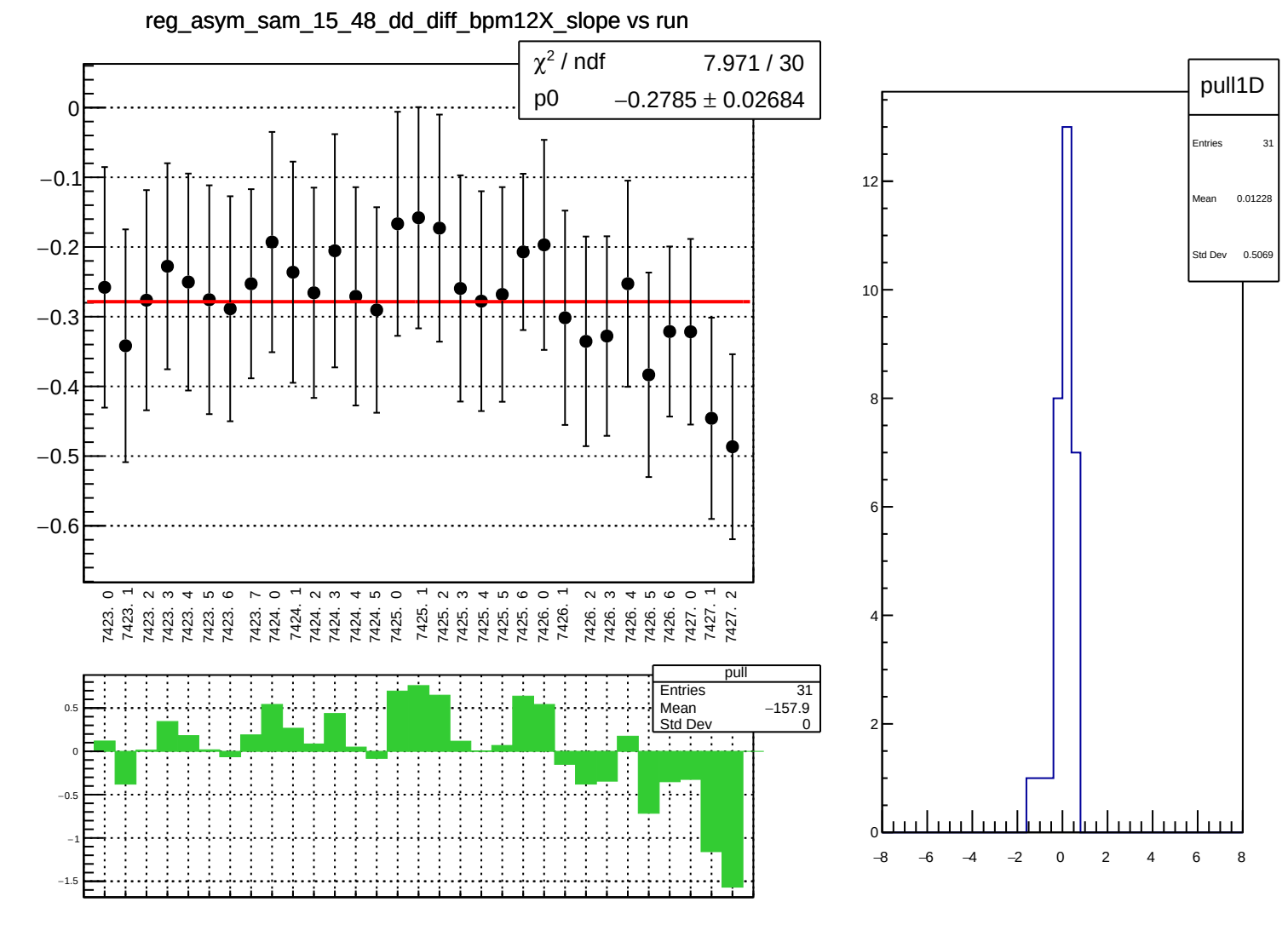

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 65.6 / 30
p0 25.32 ± 0.6113
40
35
30
25
20
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −51.93
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.1225
Std Dev 1.45
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

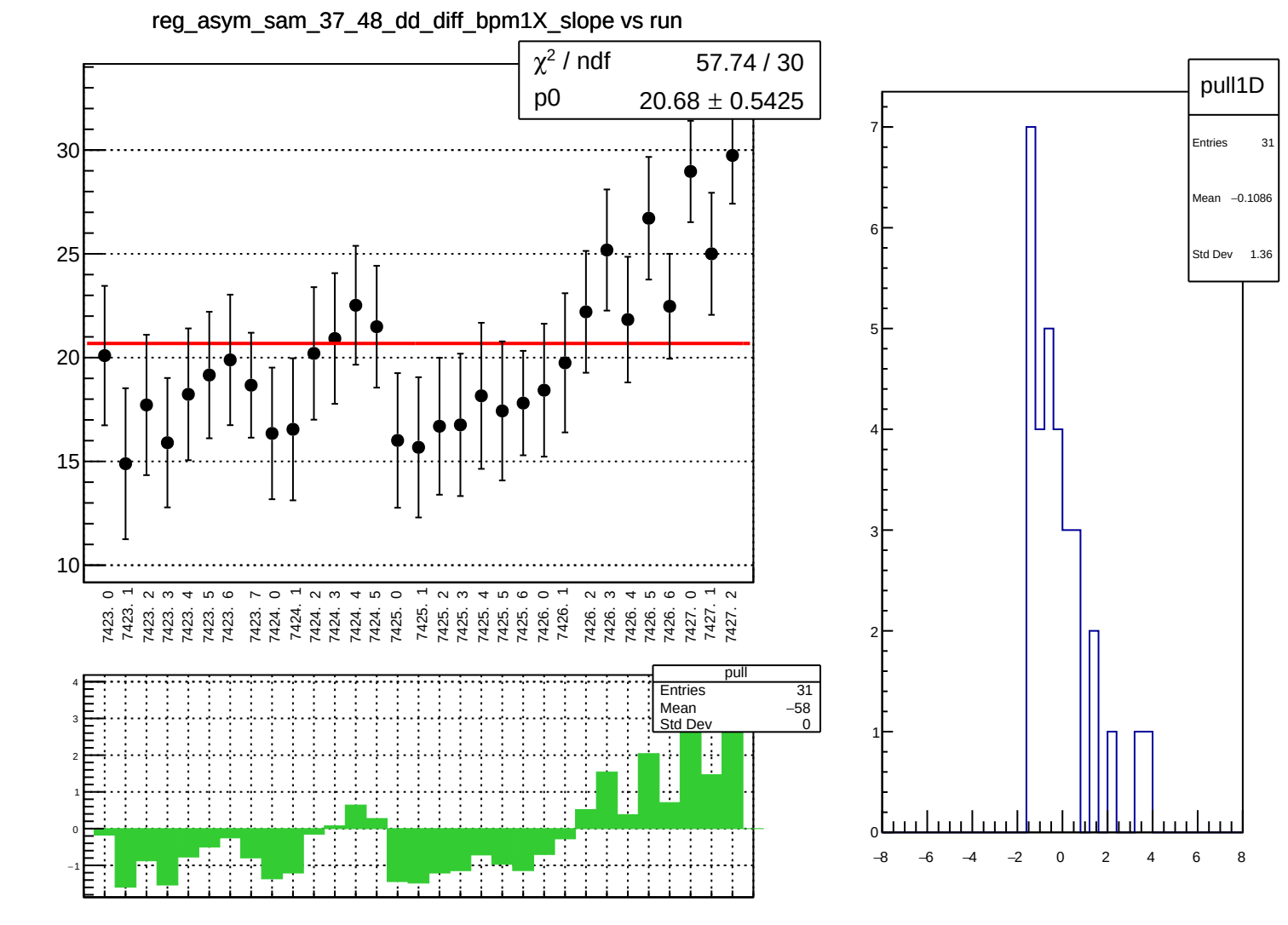

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.62 / 30
p0 −9.098 ± 0.5846
pull
Entries 31
Mean 51.44
Std Dev 0
pull1D
Entries 31
Mean −0.08361
Std Dev 1.006

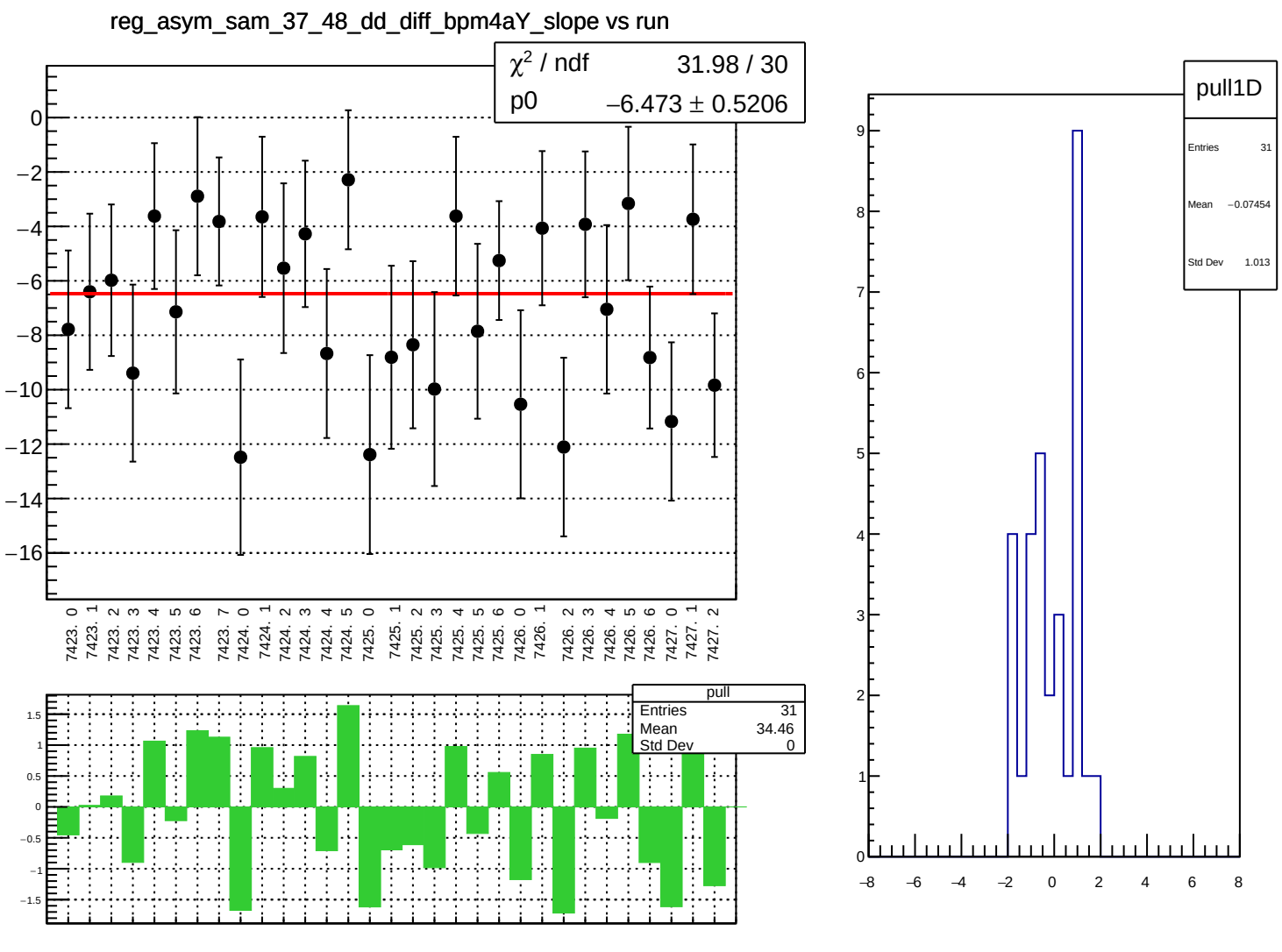

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 106.2 / 30
p0 25.97 ± 0.6319
40
35
30
25
20
15
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −52.37
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean 0.1627
Std Dev 1.844
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

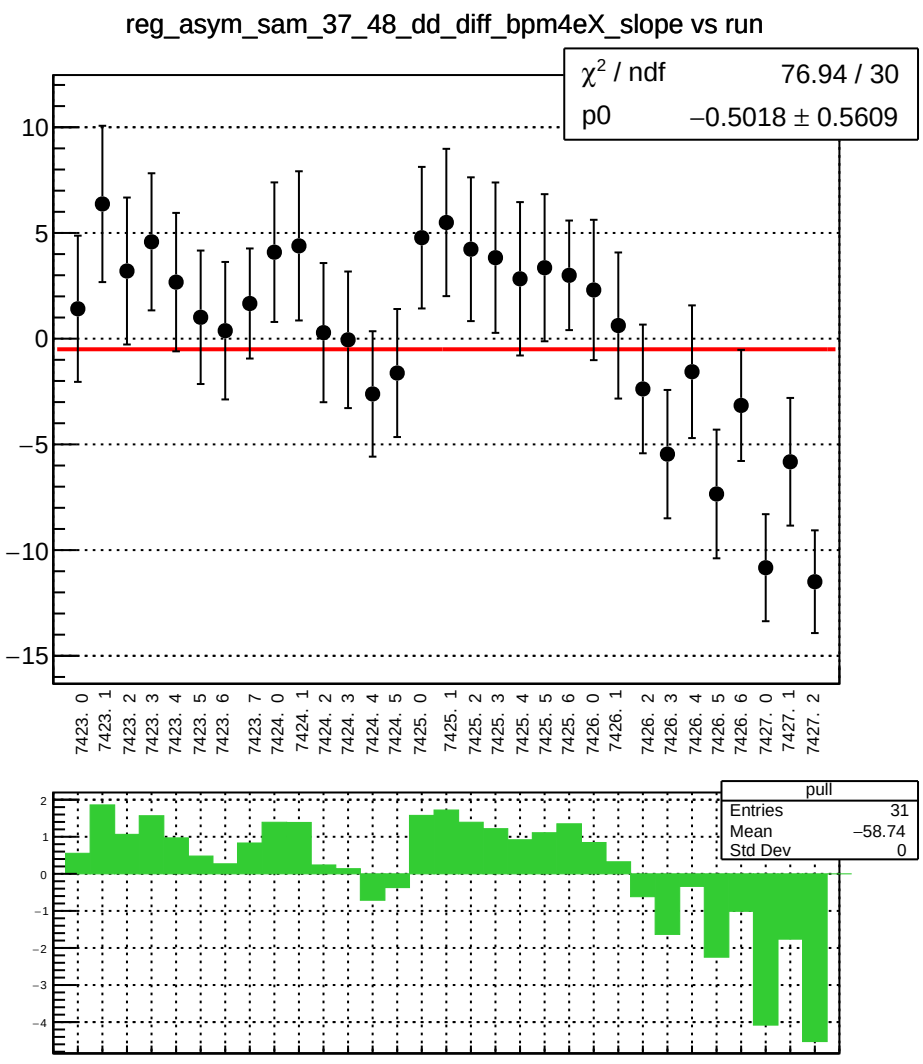

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.34 / 30
p0 −25.29 ± 0.6223
pull
Entries 31
Mean 123.9
Std Dev 0

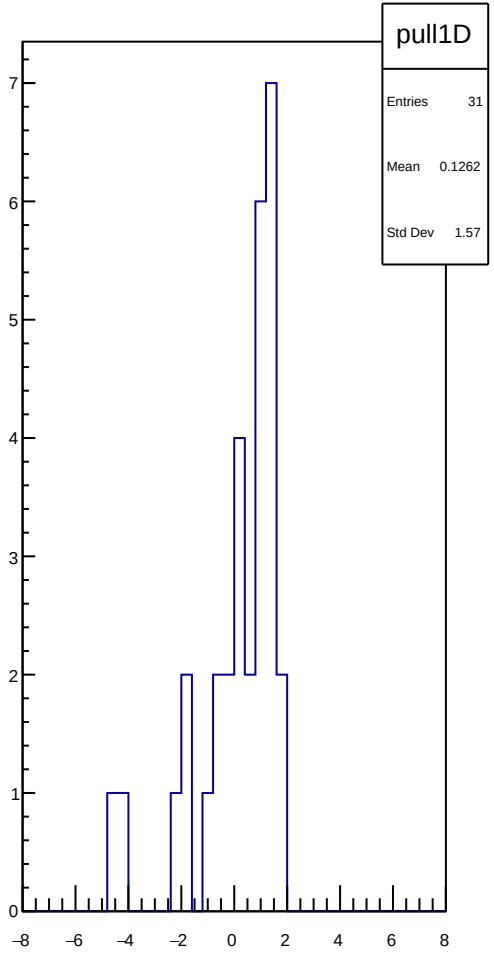

pull1D
Entries 31
Mean 0.03312
Std Dev 0.9035

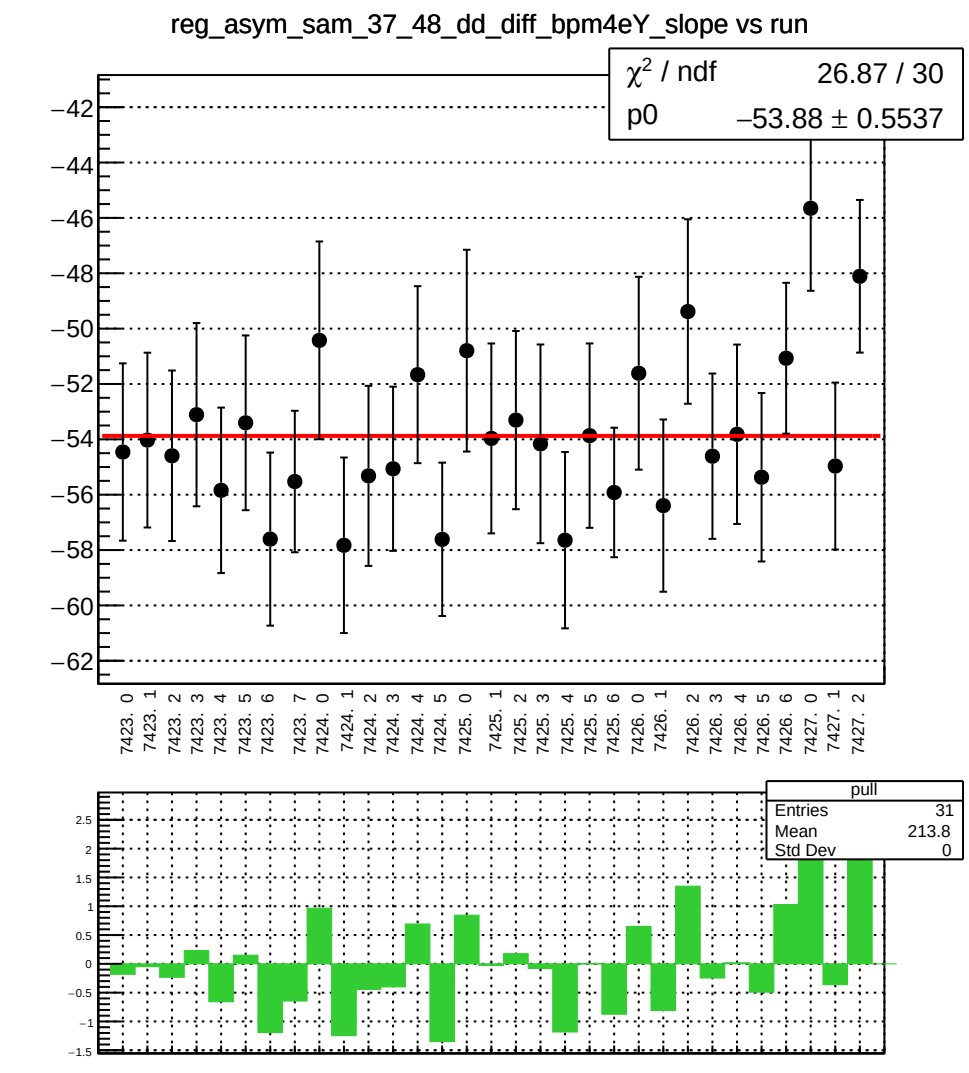

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 7.971 / 30
p0 −0.2785 ± 0.02684
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −157.9
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.01228
Std Dev 0.5069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

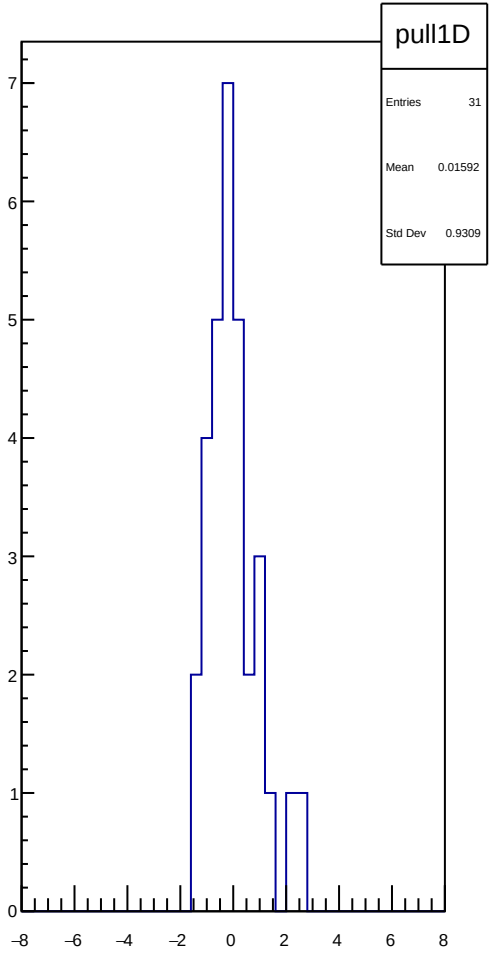

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 57.74 / 30
p0 20.68 ± 0.5425
30
25
20
15
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −58
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 31
Mean −0.1086
Std Dev 1.36
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

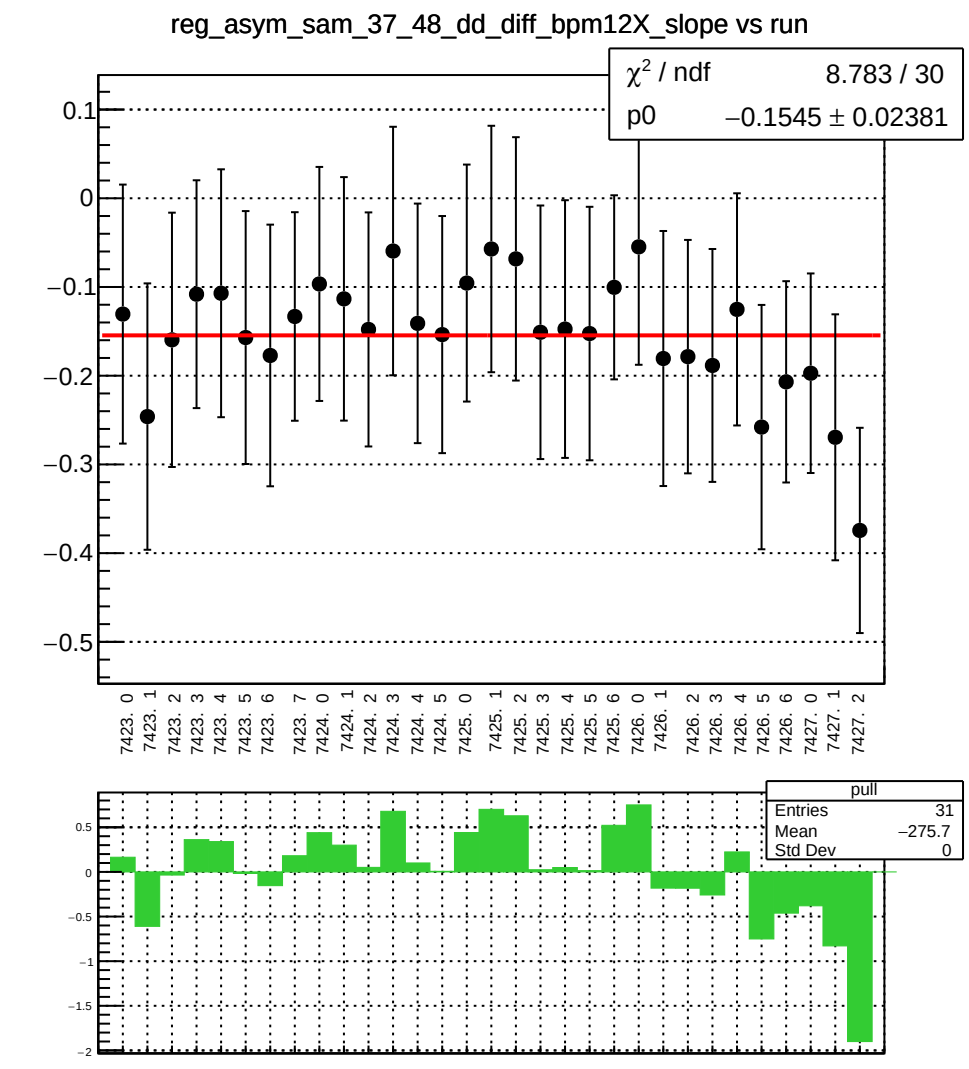

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.98 / 30
p0 −6.473 ± 0.5206
0
−2
−4
−6
−8
−10
−12
−14
−16
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 34.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.07454
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

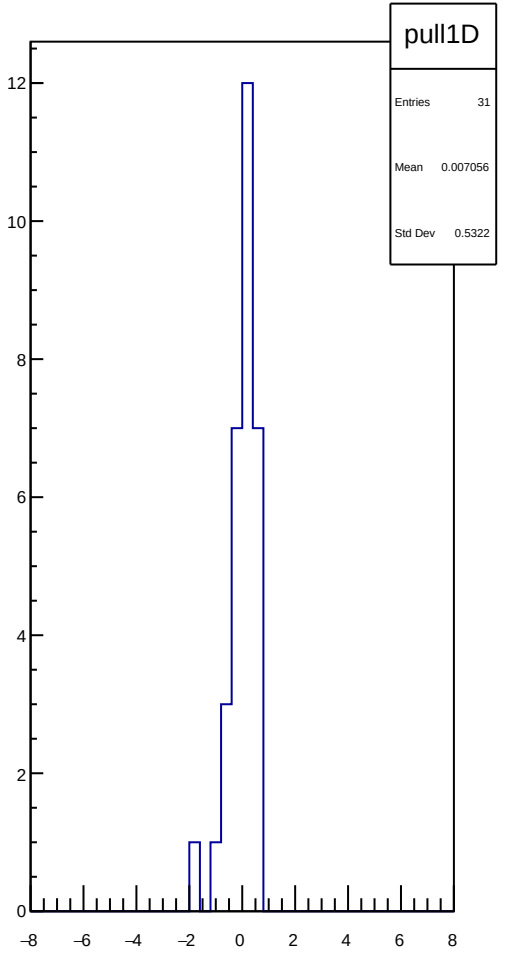

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.94 / 30
p0 −0.5018 ± 0.5609
pull
Entries 31
Mean −58.74
Std Dev 0

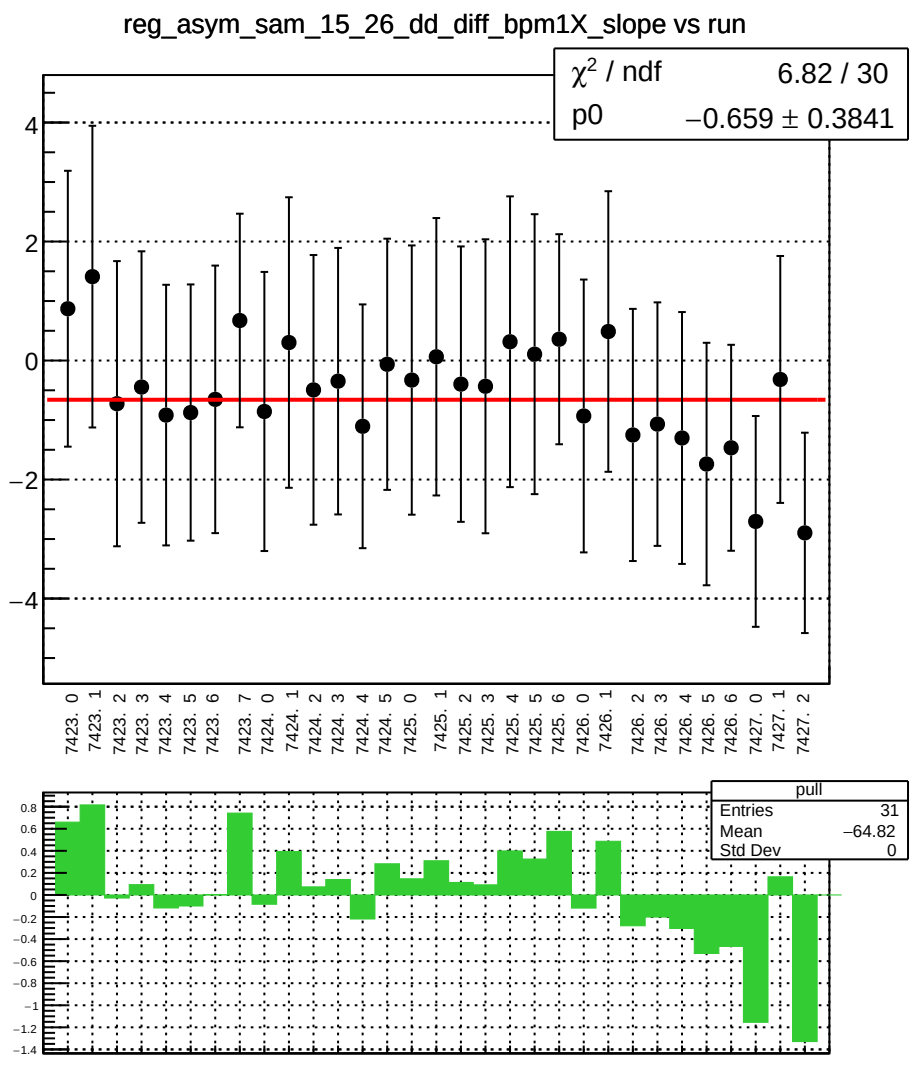

pull1D
Entries 31
Mean 0.1262
Std Dev 1.57

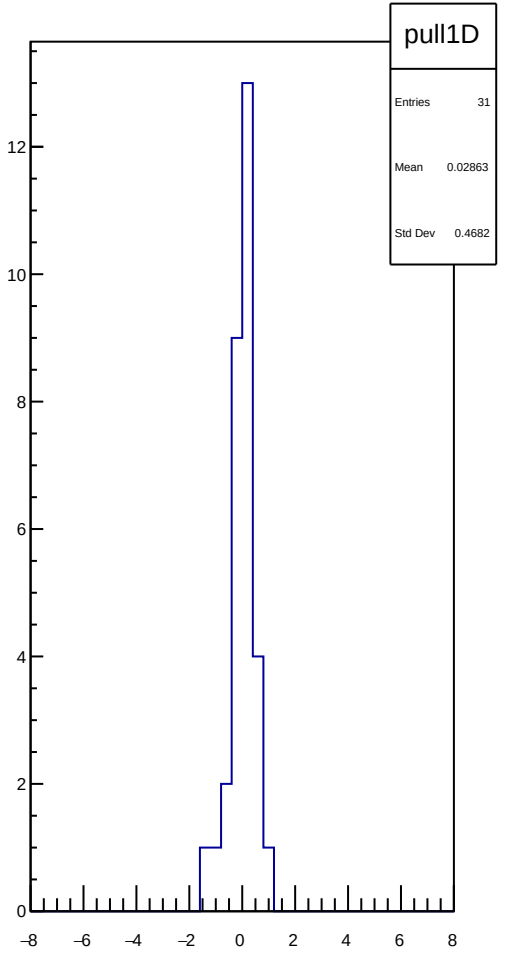

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.87 / 30
p0 −53.88 ± 0.5537
−42
−44
−46
−48
−50
−52
−54
−56
−58
−60
−62
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 213.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

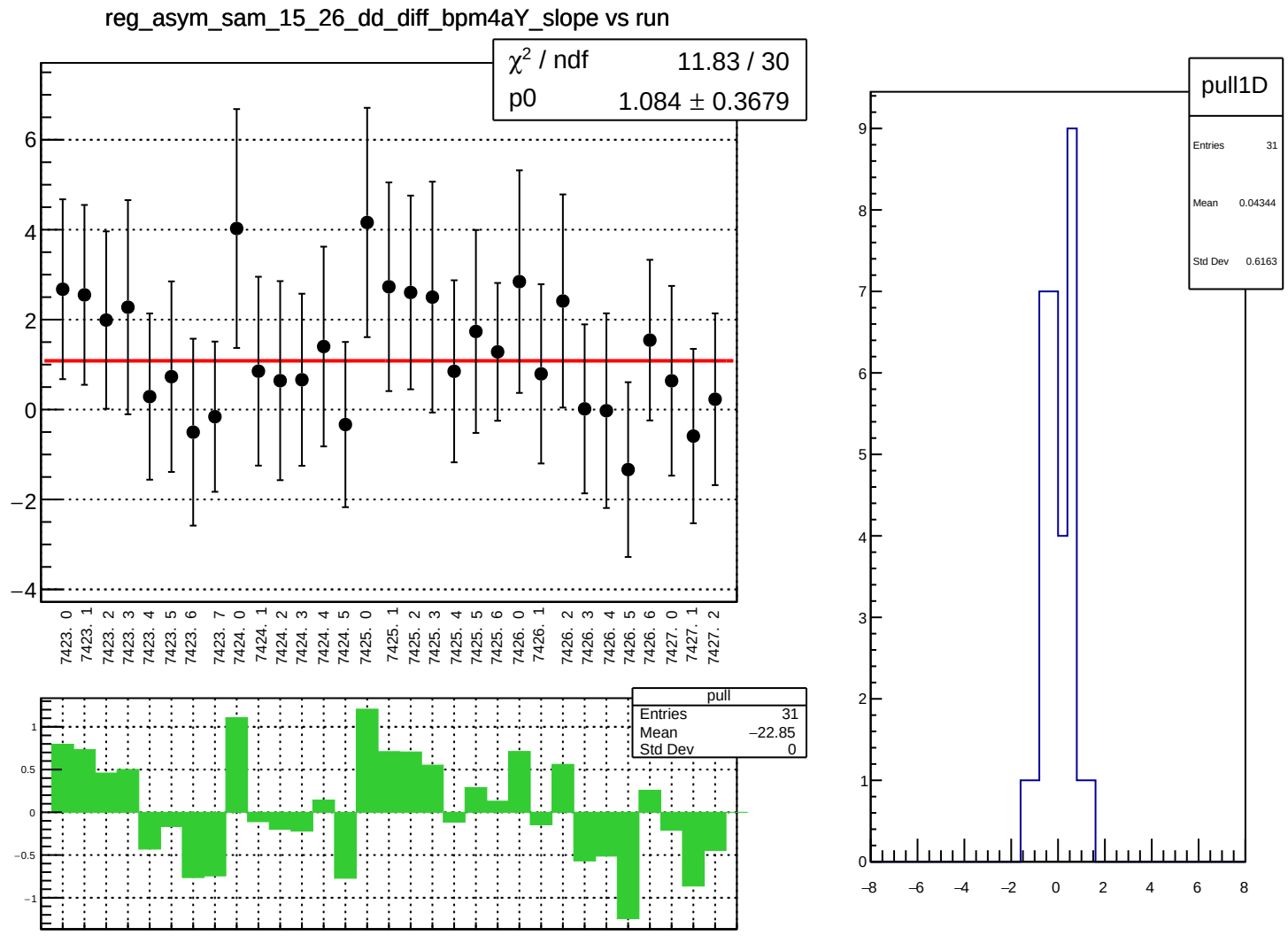

pull1D
Entries 31
Mean 0.01592
Std Dev 0.9309
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

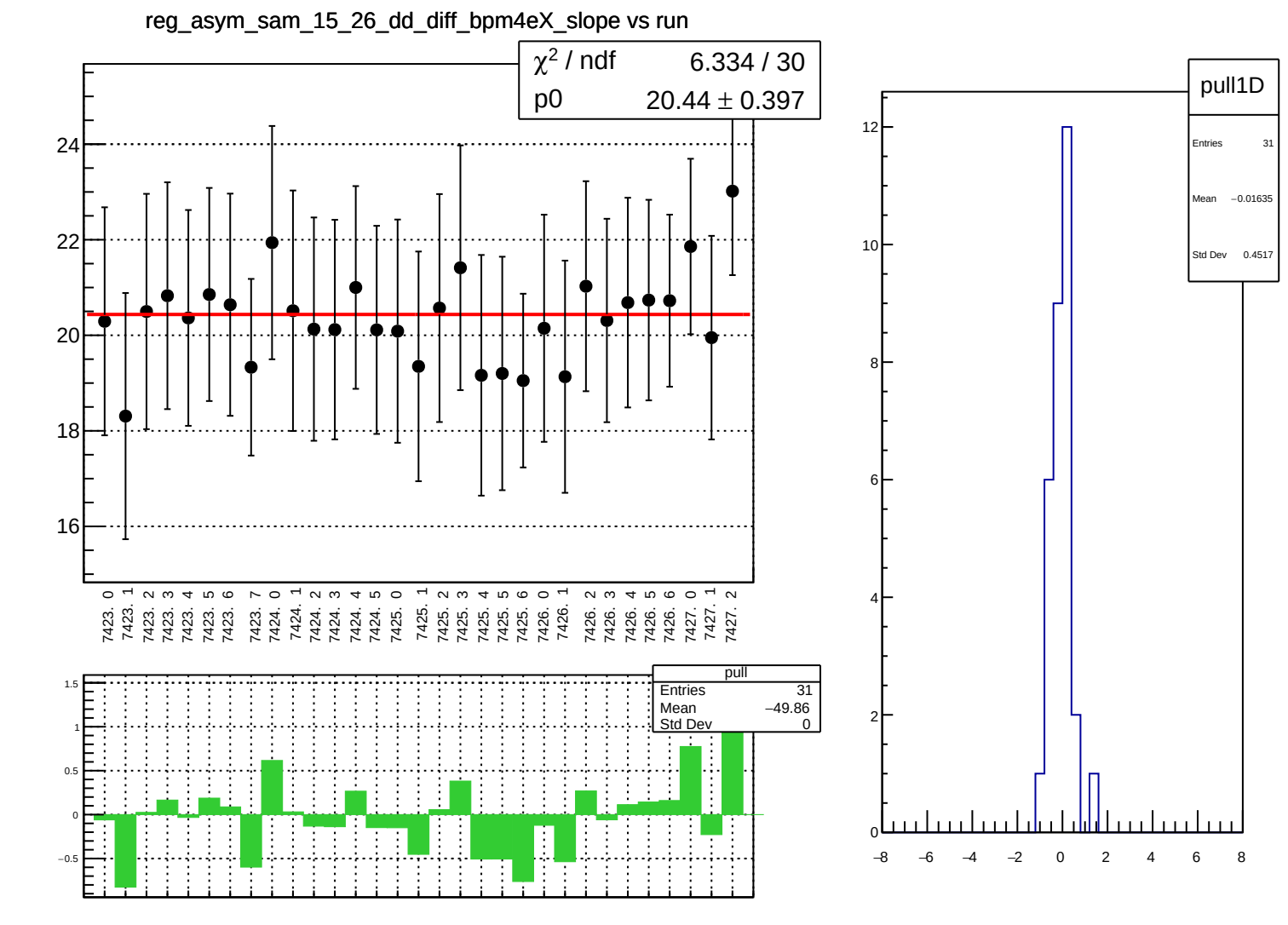

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.783 / 30
p0 −0.1545 ± 0.02381
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −275.7
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2

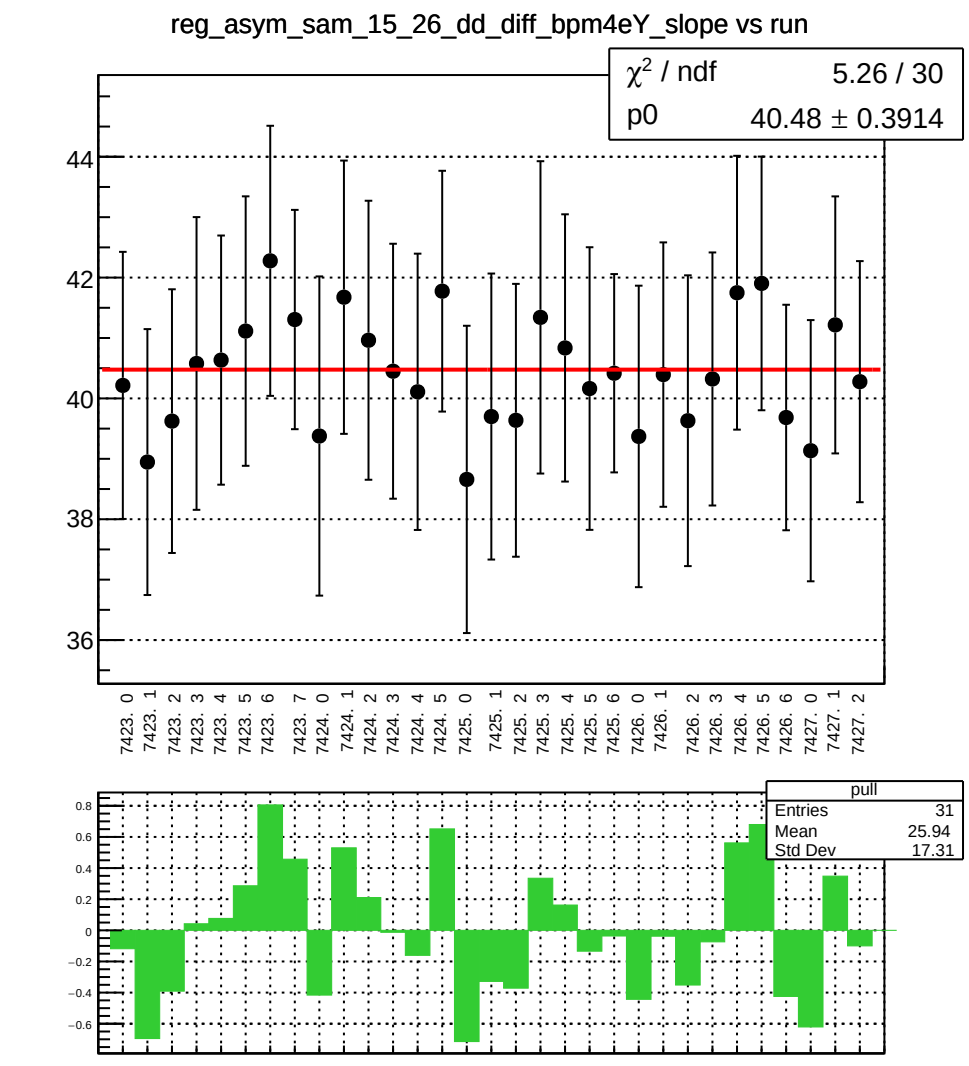

pull1D
Entries 31
Mean 0.007056
Std Dev 0.5322
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

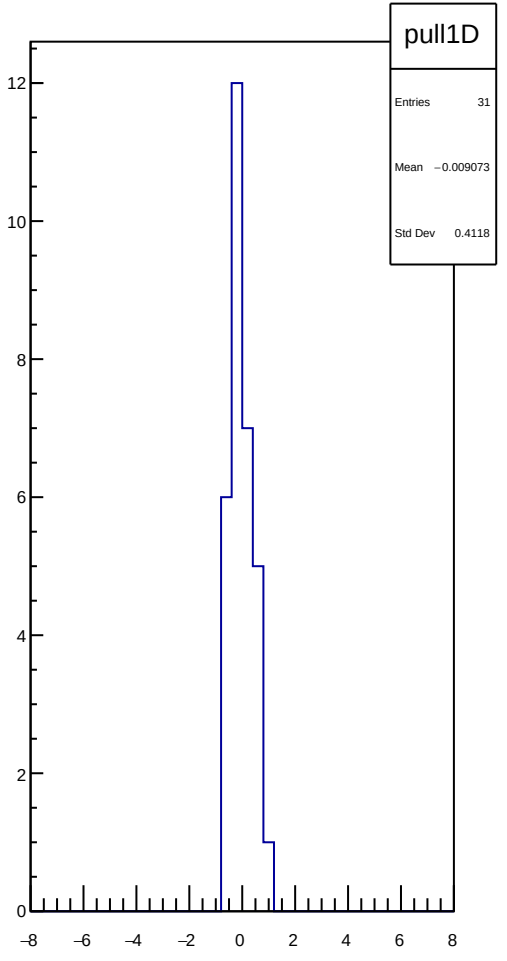

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 6.82 / 30
p0 −0.659 ± 0.3841
4
2
0
−2
−4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −64.82
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

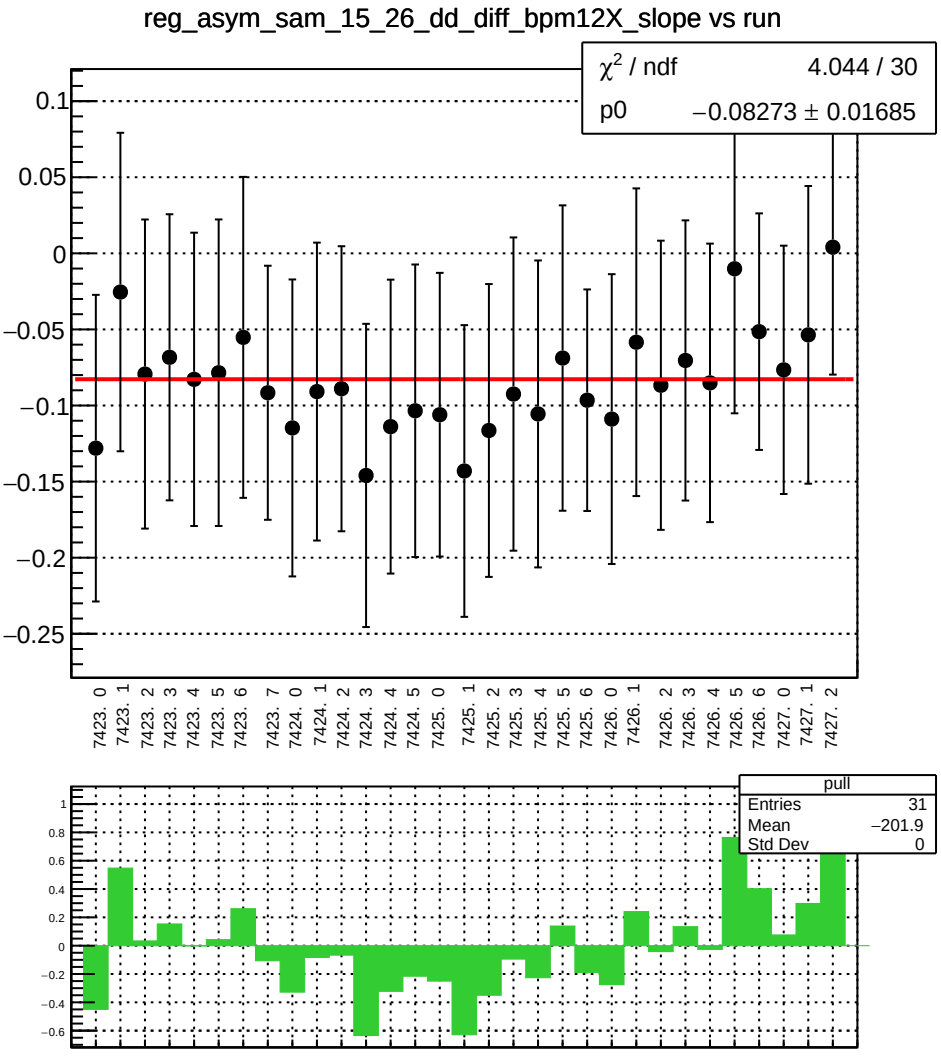

pull1D
Entries 31
Mean 0.02863
Std Dev 0.4682
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

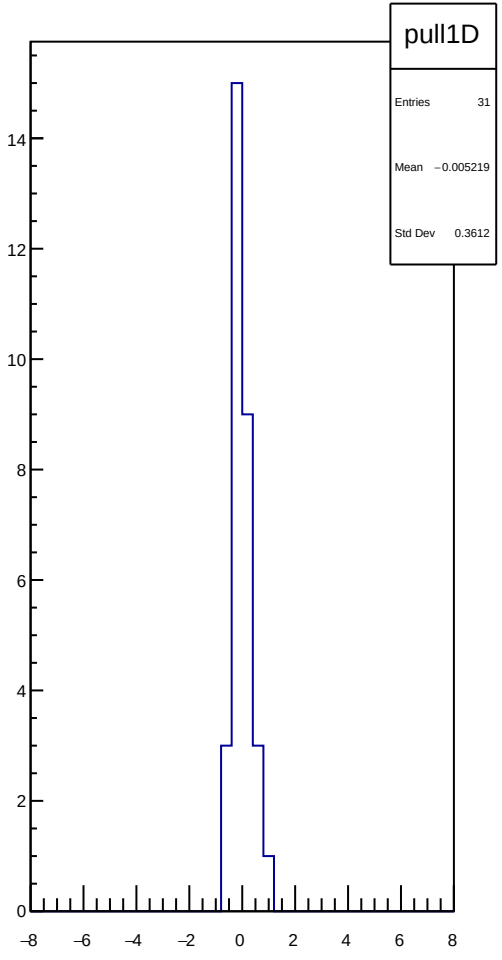

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.83 / 30
p0 1.084 ± 0.3679
pull
Entries 31
Mean −22.85
Std Dev 0
pull1D
Entries 31
Mean 0.04344
Std Dev 0.6163

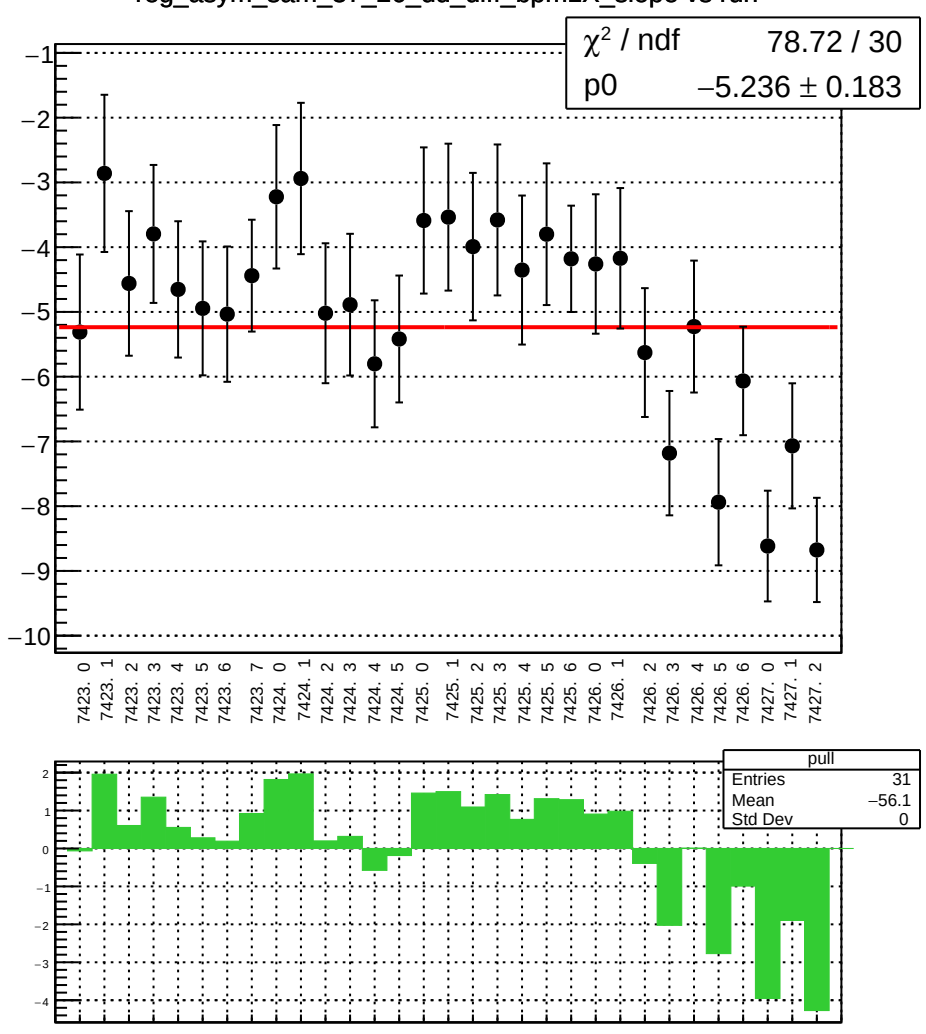

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.334 / 30
p0 20.44 ± 0.397
24
22
20
18
16
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −49.86
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 31
Mean −0.01635
Std Dev 0.4517
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

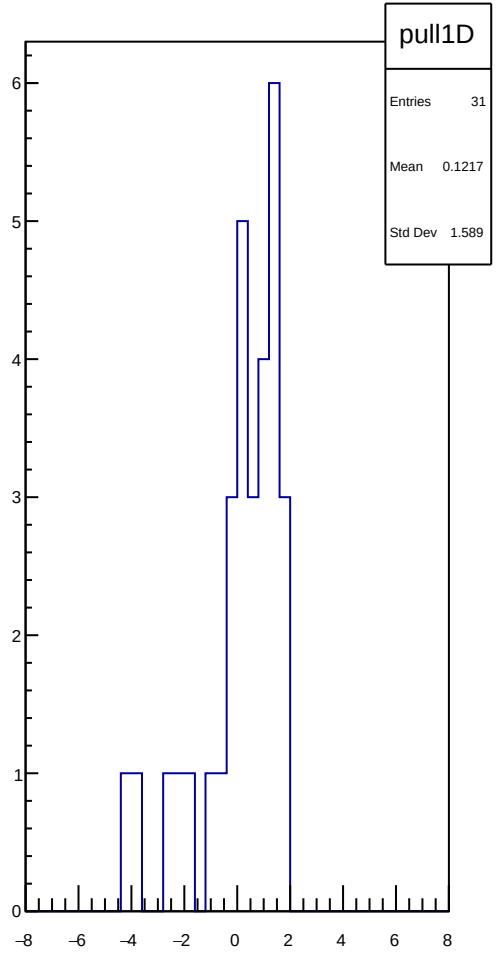

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.26 / 30
p0 40.48 ± 0.3914
44
42
40
38
36
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 25.94
Std Dev 17.31
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

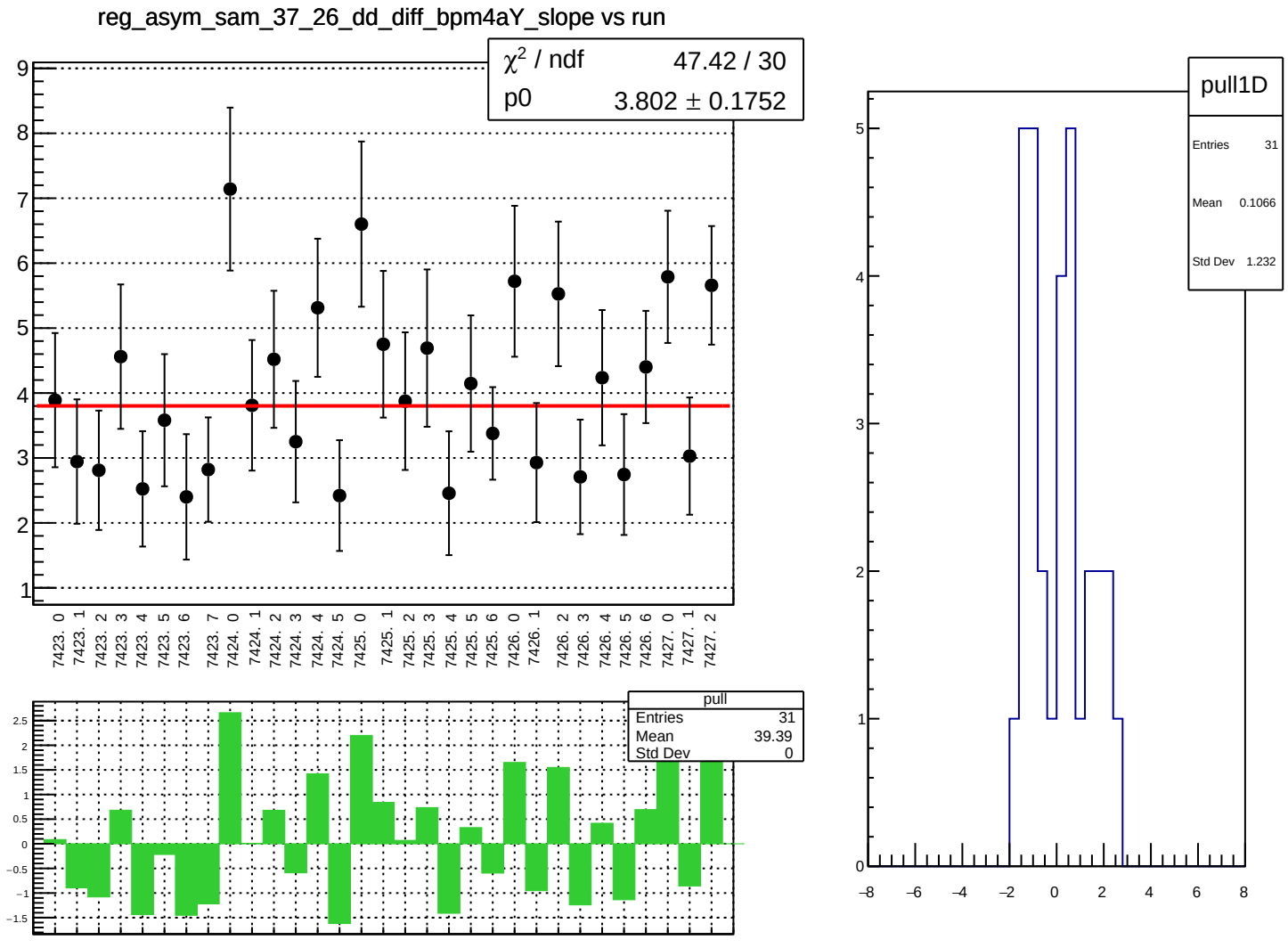

pull1D
Entries 31
Mean −0.009073
Std Dev 0.4118
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

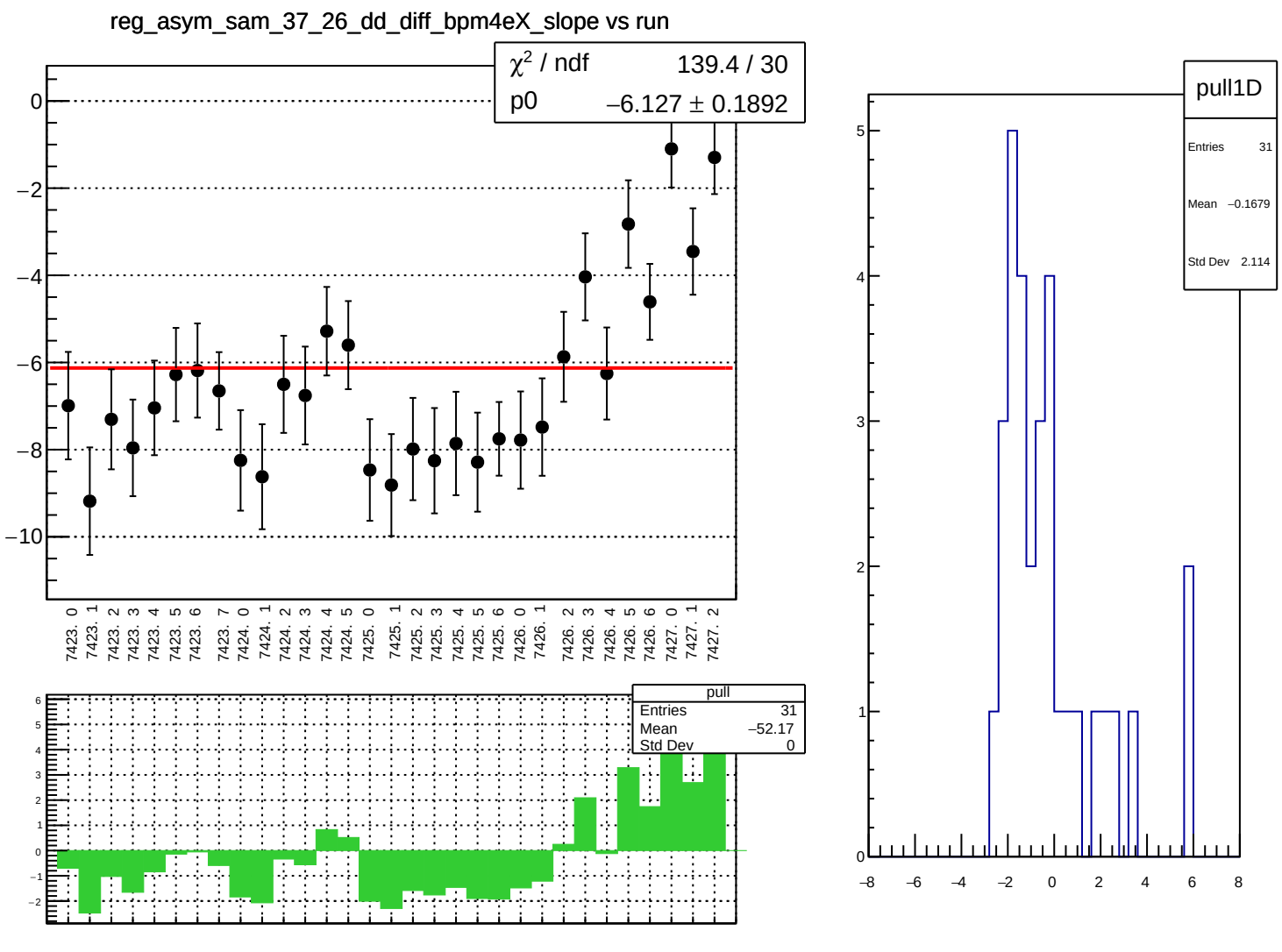

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.044 / 30
p0 −0.08273 ± 0.01685
pull
Entries 31
Mean −201.9
Std Dev 0

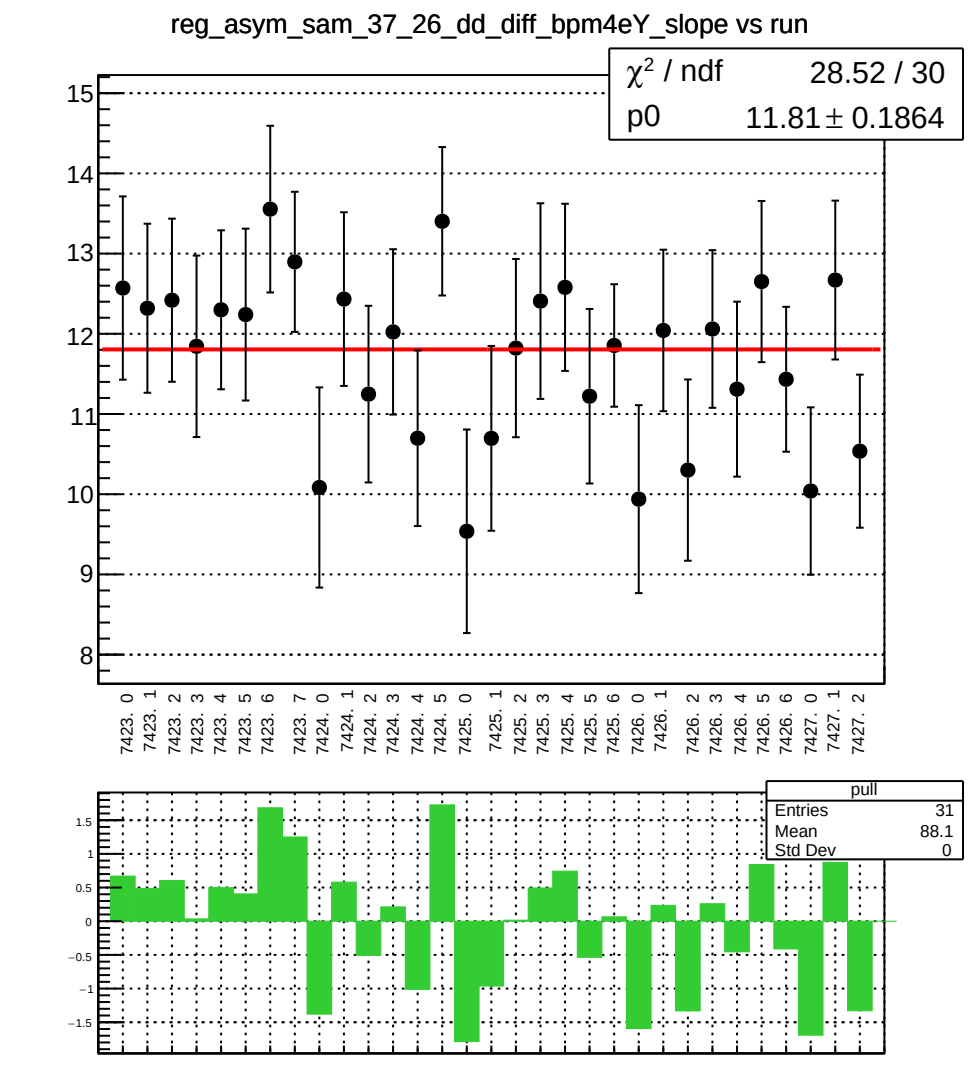

pull1D
Entries 31
Mean −0.005219
Std Dev 0.3612

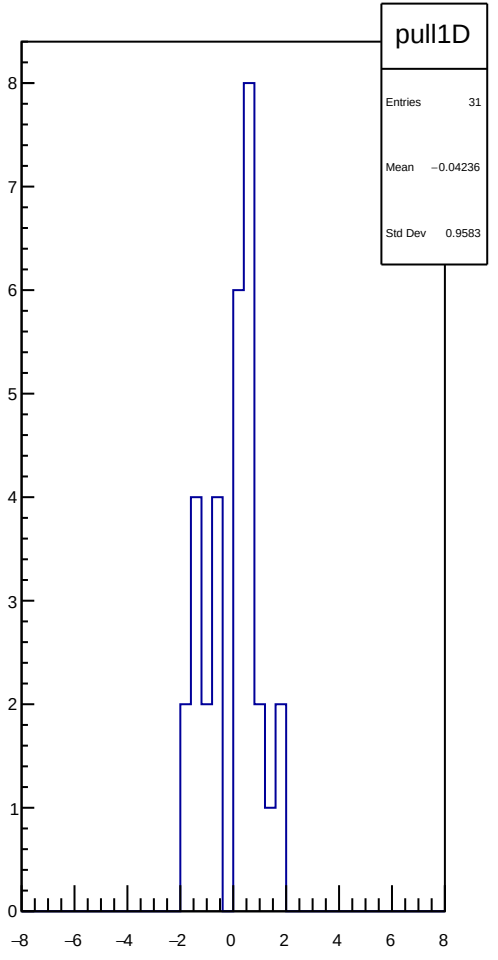

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 78.72 / 30
p0 −5.236 ± 0.183
pull
Entries 31
Mean −56.1
Std Dev 0

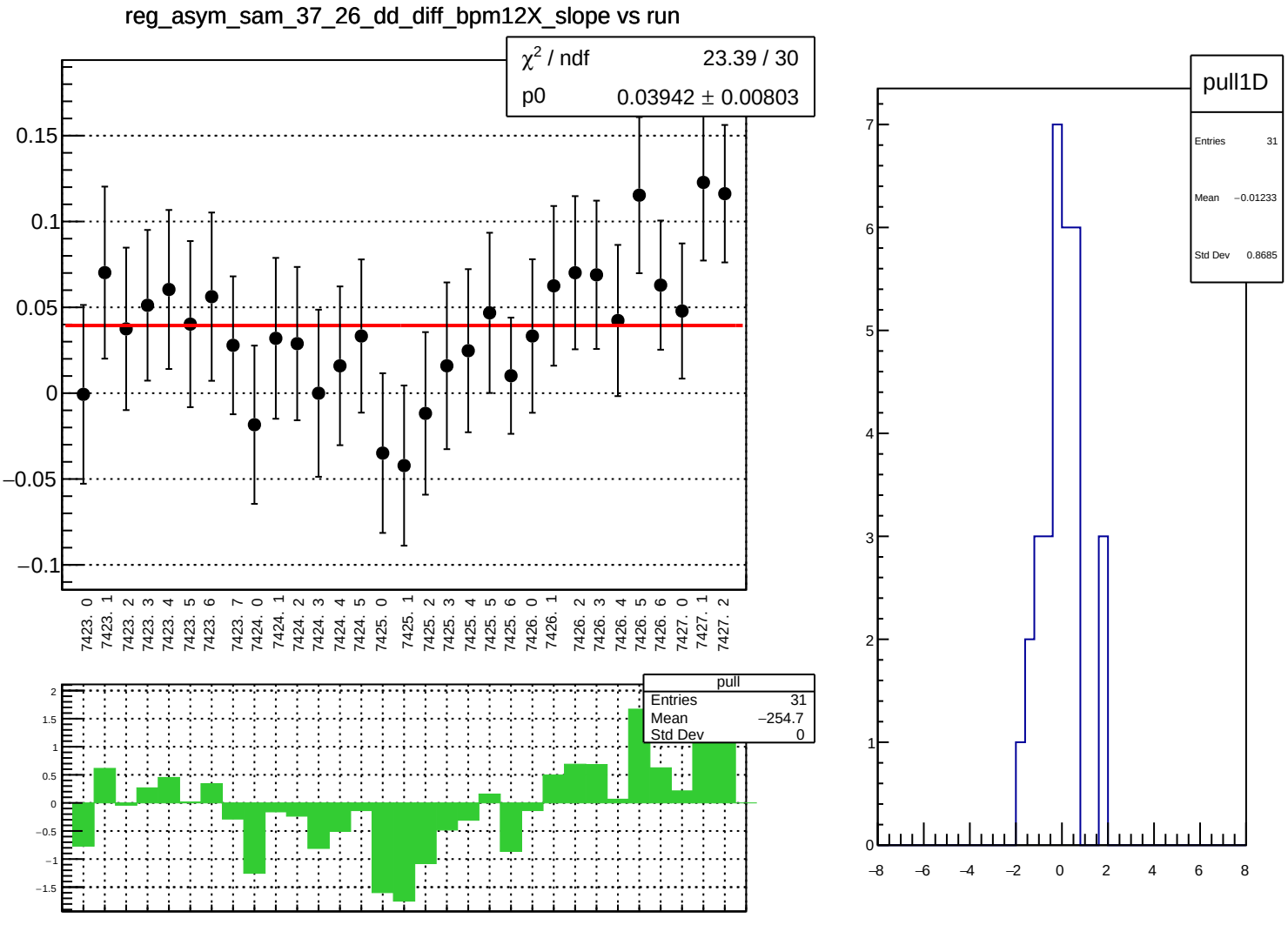

pull1D
Entries 31
Mean 0.1217
Std Dev 1.589

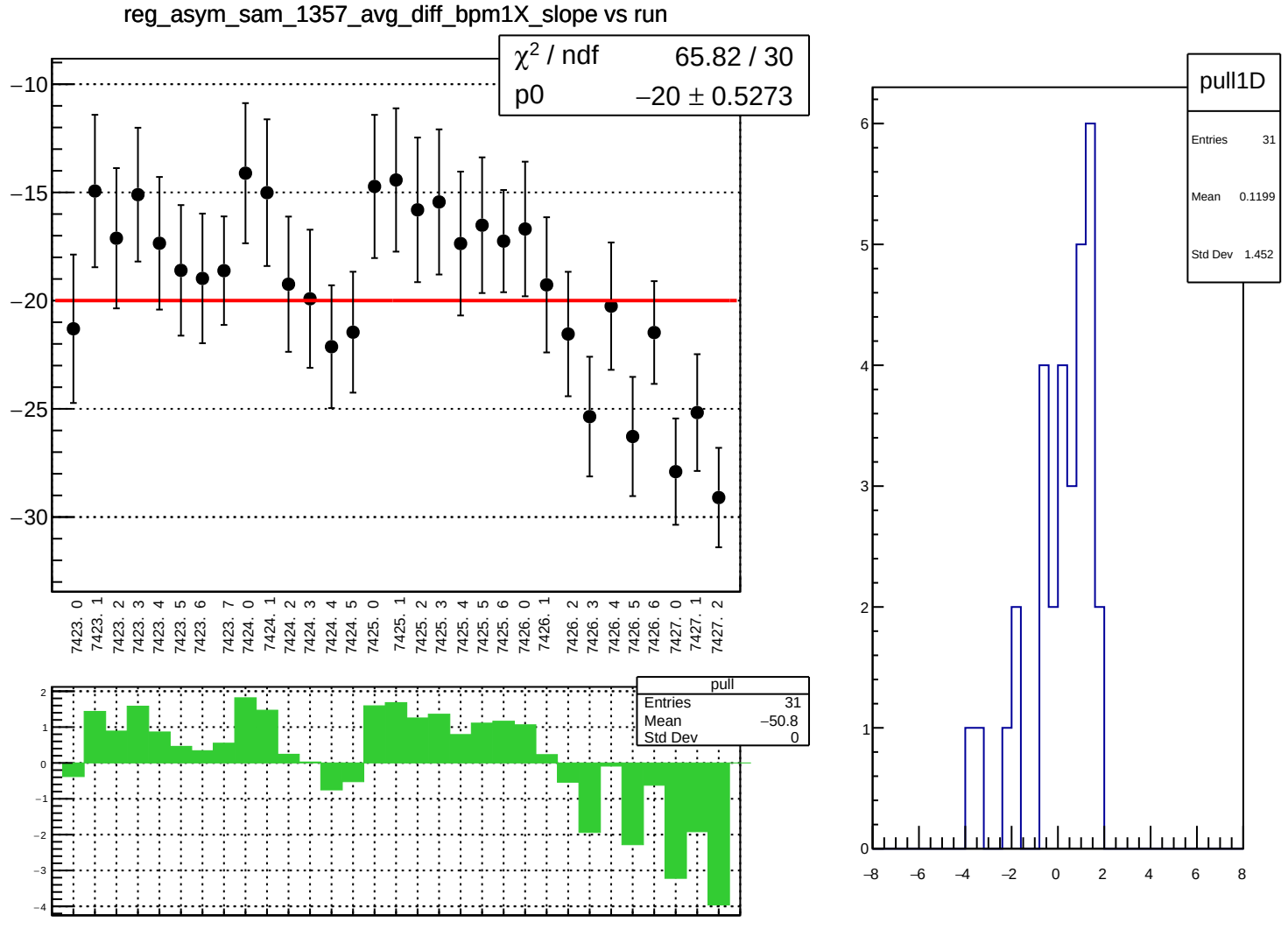

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.42 / 30
p0 3.802 ± 0.1752
pull
Entries 31
Mean 39.39
Std Dev 0
pull1D
Entries 31
Mean 0.1066
Std Dev 1.232

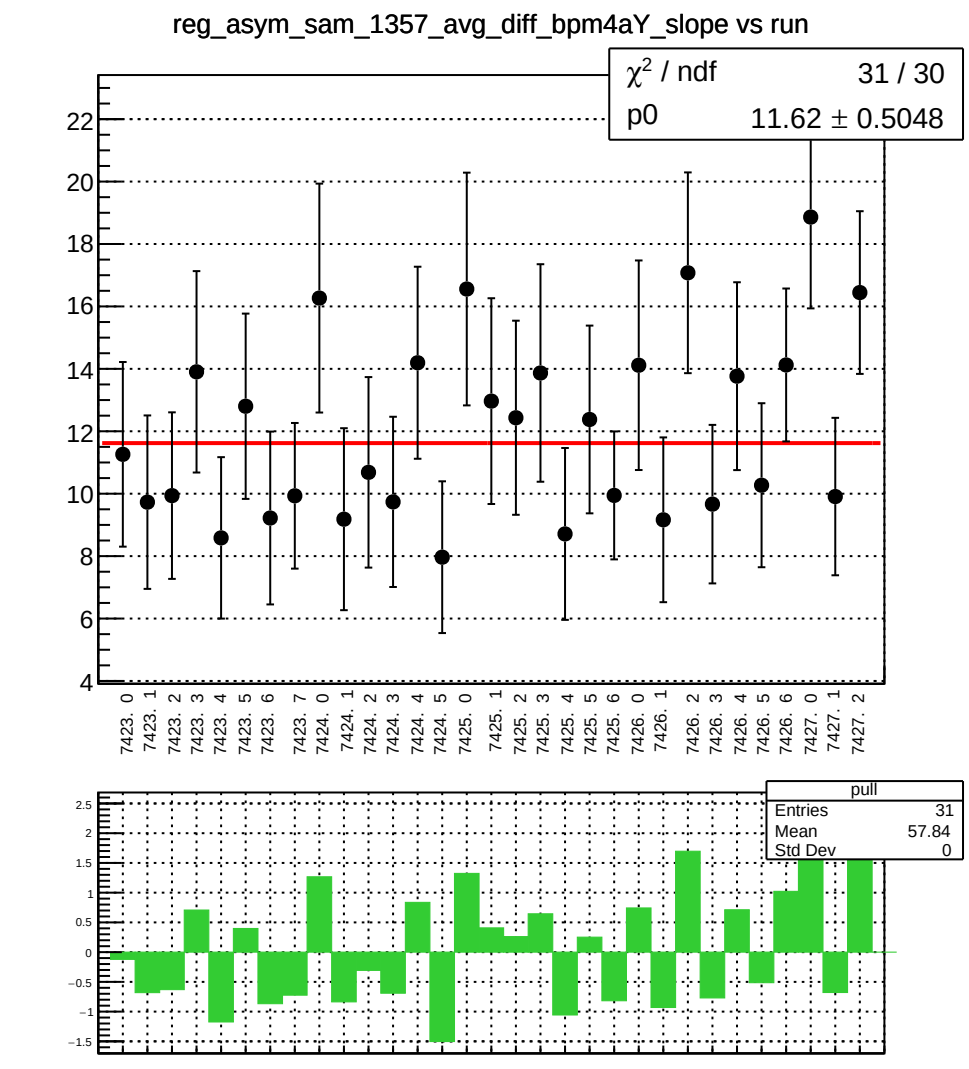

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 139.4 / 30
p0 −6.127 ± 0.1892
0
−2
−4
−6
−8
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −52.17
Std Dev 0
pull1D
Entries 31
Mean −0.1679
Std Dev 2.114

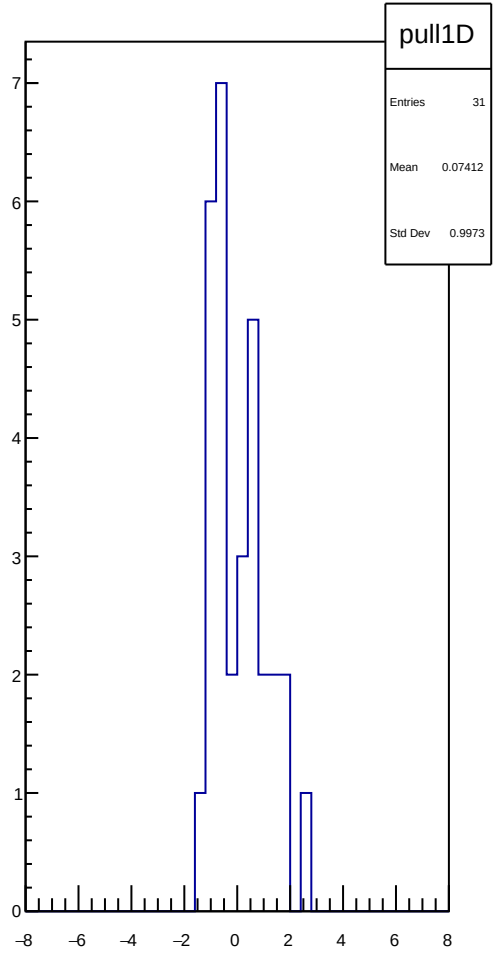

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.52 / 30
p0 11.81 ± 0.1864
15
14
13
12
11
10
9
8
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 88.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

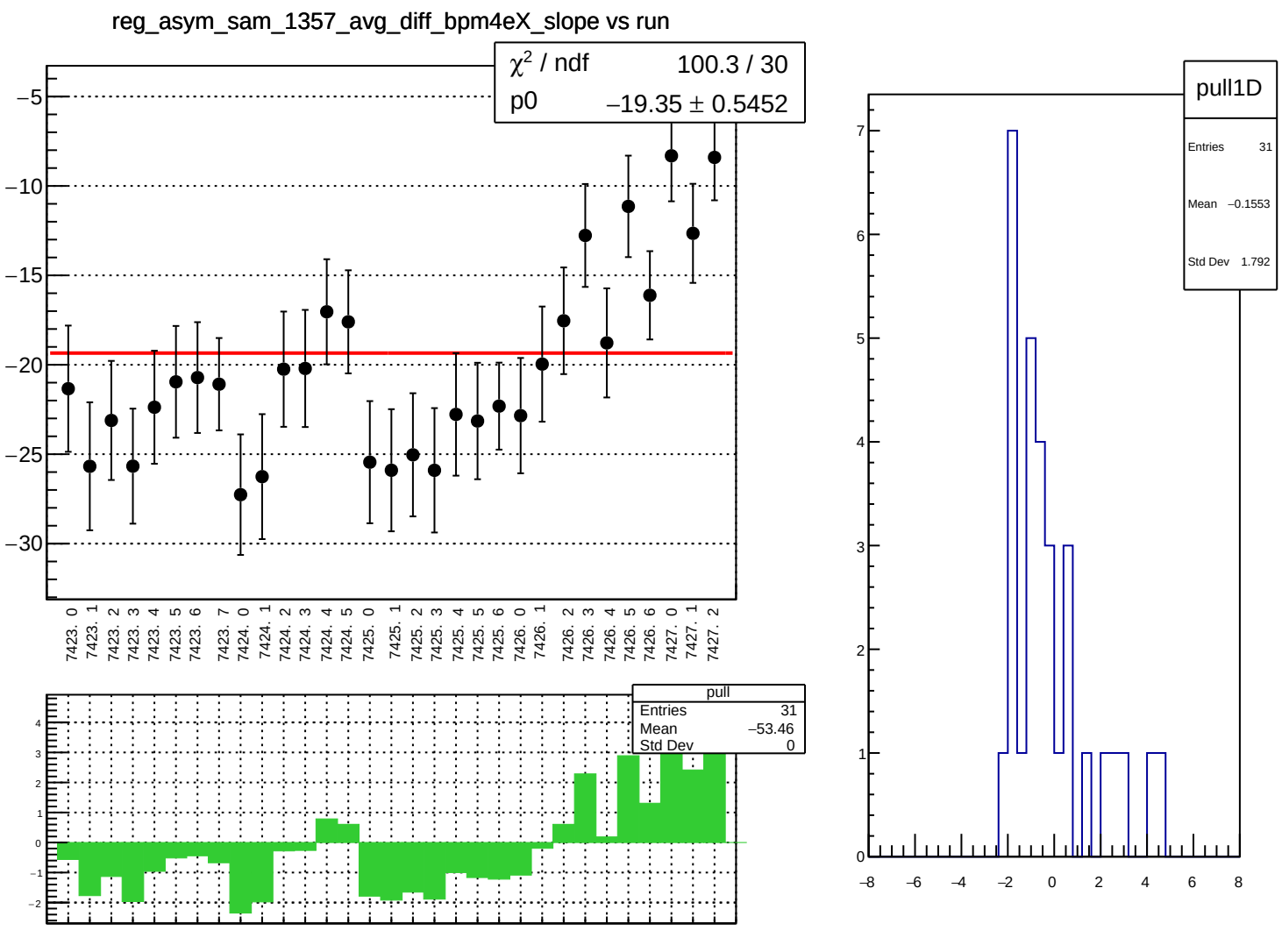

pull1D
Entries 31
Mean −0.04236
Std Dev 0.9583
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

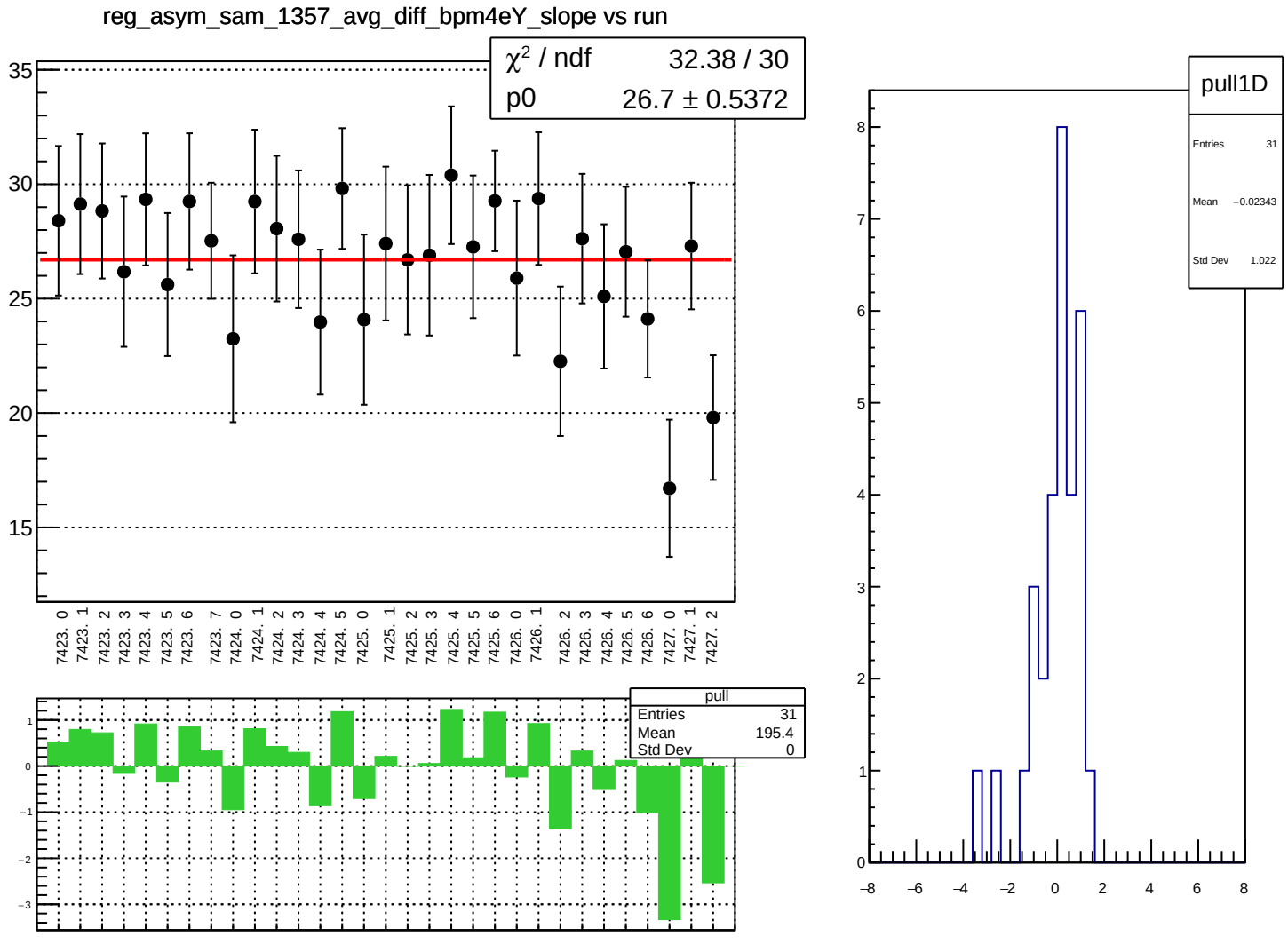

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 23.39 / 30
p0 0.03942 ± 0.00803
0.15
0.1
0.05
0
−0.05
−0.1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −254.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01233
Std Dev 0.8685
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

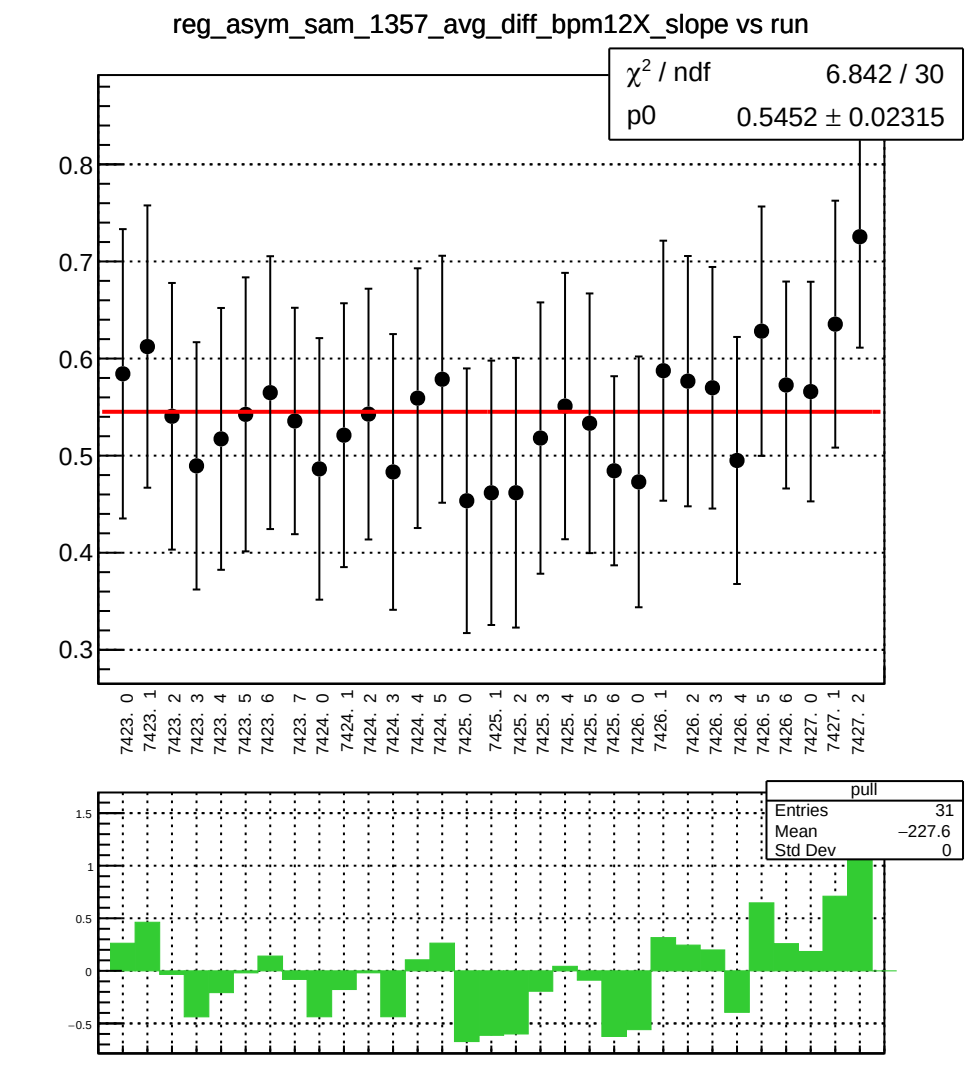

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 65.82 / 30
p0 −20 ± 0.5273
−10
−15
−20
−25
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −50.8
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.1199
Std Dev 1.452
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

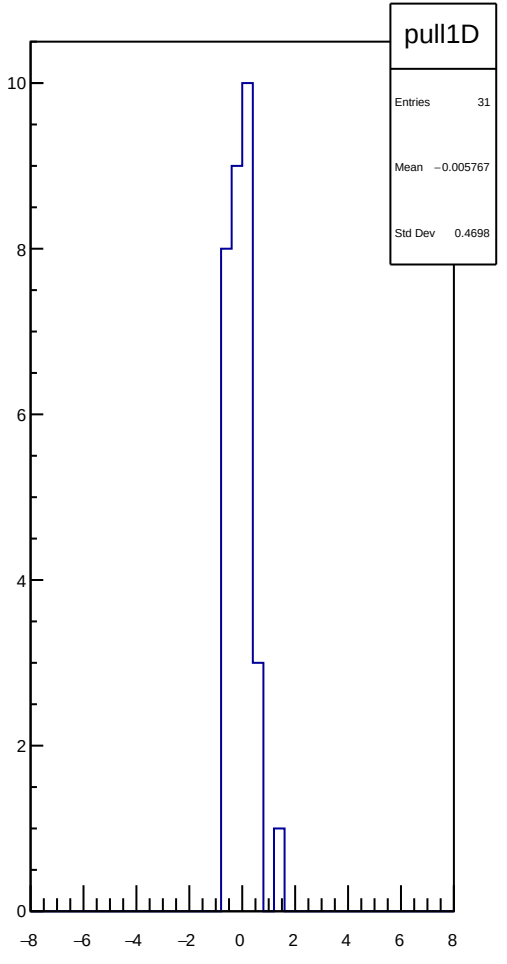

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 31 / 30
p0 11.62 ± 0.5048
pull
Entries 31
Mean 57.84
Std Dev 0

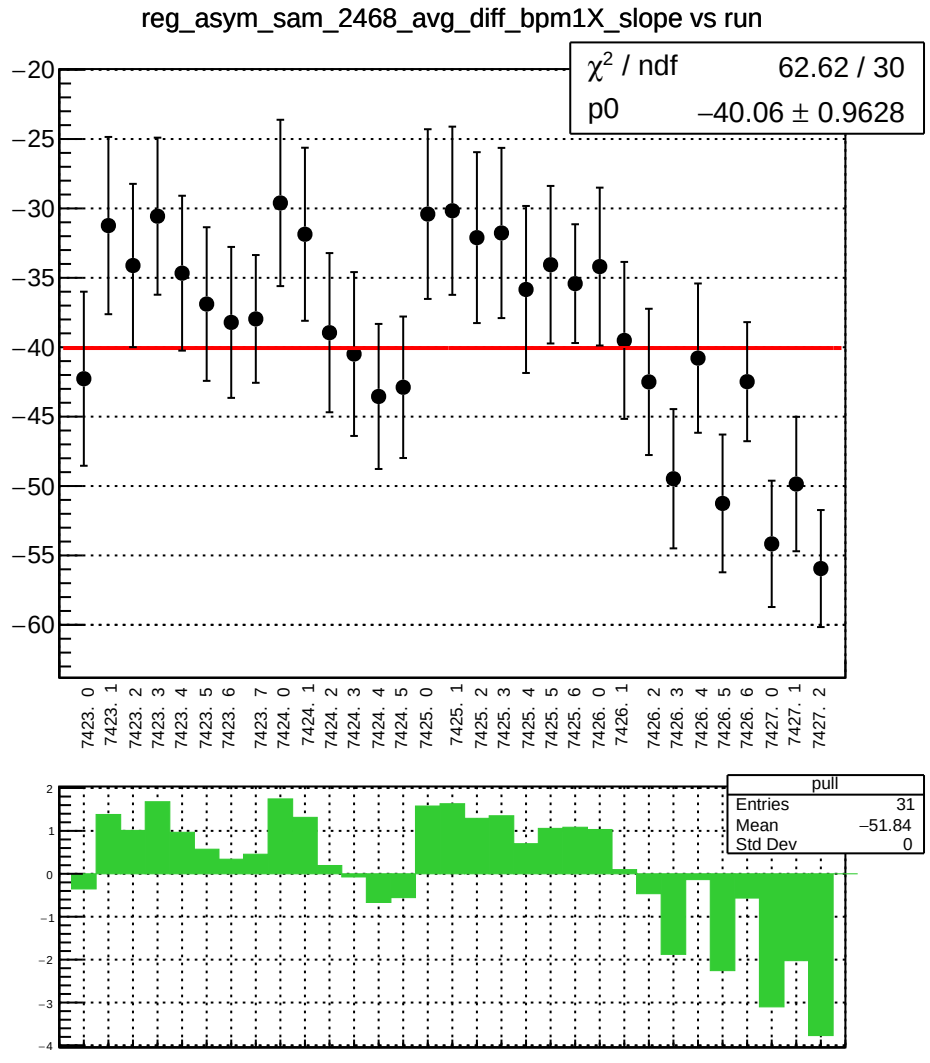

pull1D
Entries 31
Mean 0.07412
Std Dev 0.9973

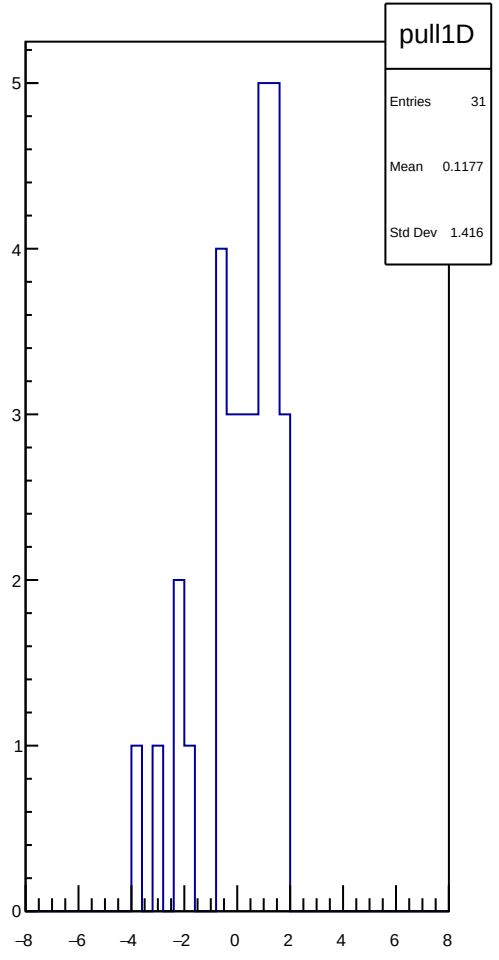

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 100.3 / 30
p0 −19.35 ± 0.5452
−5
−10
−15
−20
−25
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −53.46
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.1553
Std Dev 1.792
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

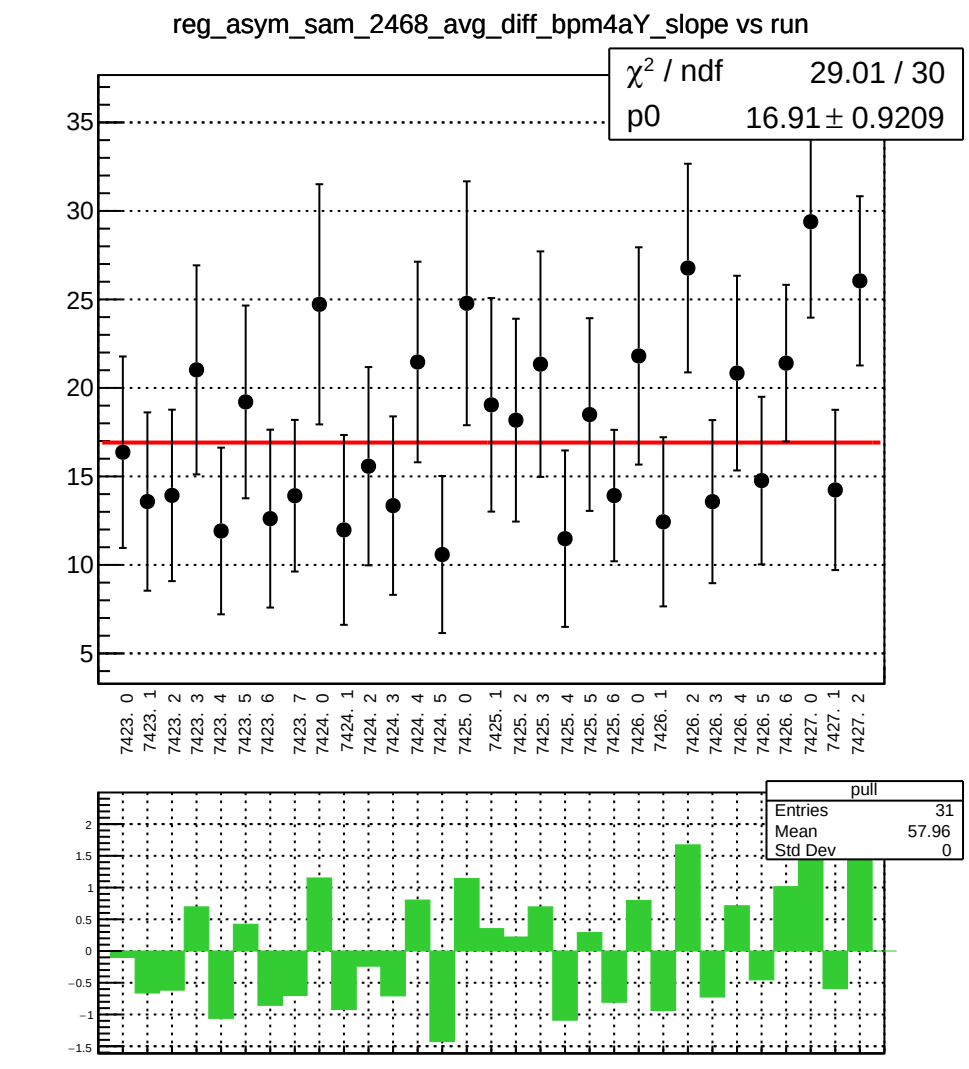

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.38 / 30
p0 26.7 ± 0.5372
35
30
25
20
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 195.4
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.02343
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

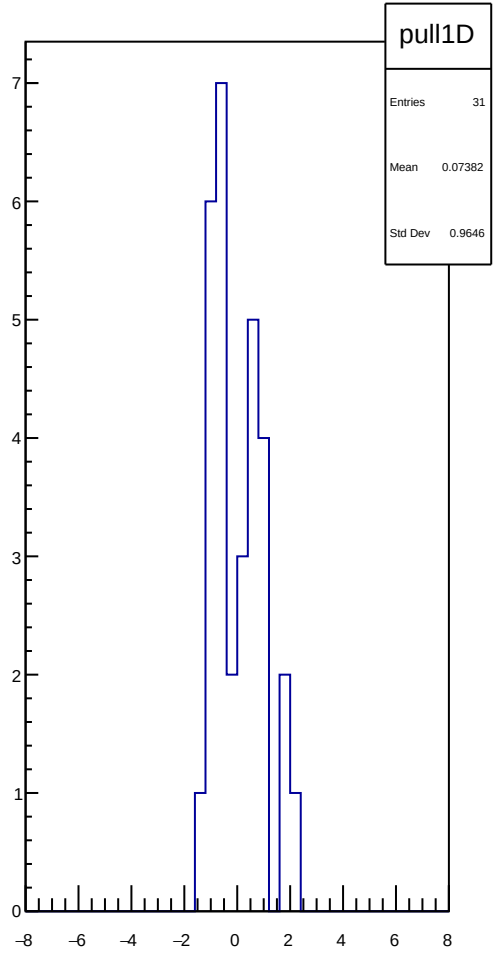

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 6.842 / 30
p0 0.5452 ± 0.02315
0.8
0.7
0.6
0.5
0.4
0.3
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −227.6
Std Dev 0
1.5
1
0.5
0
−0.5

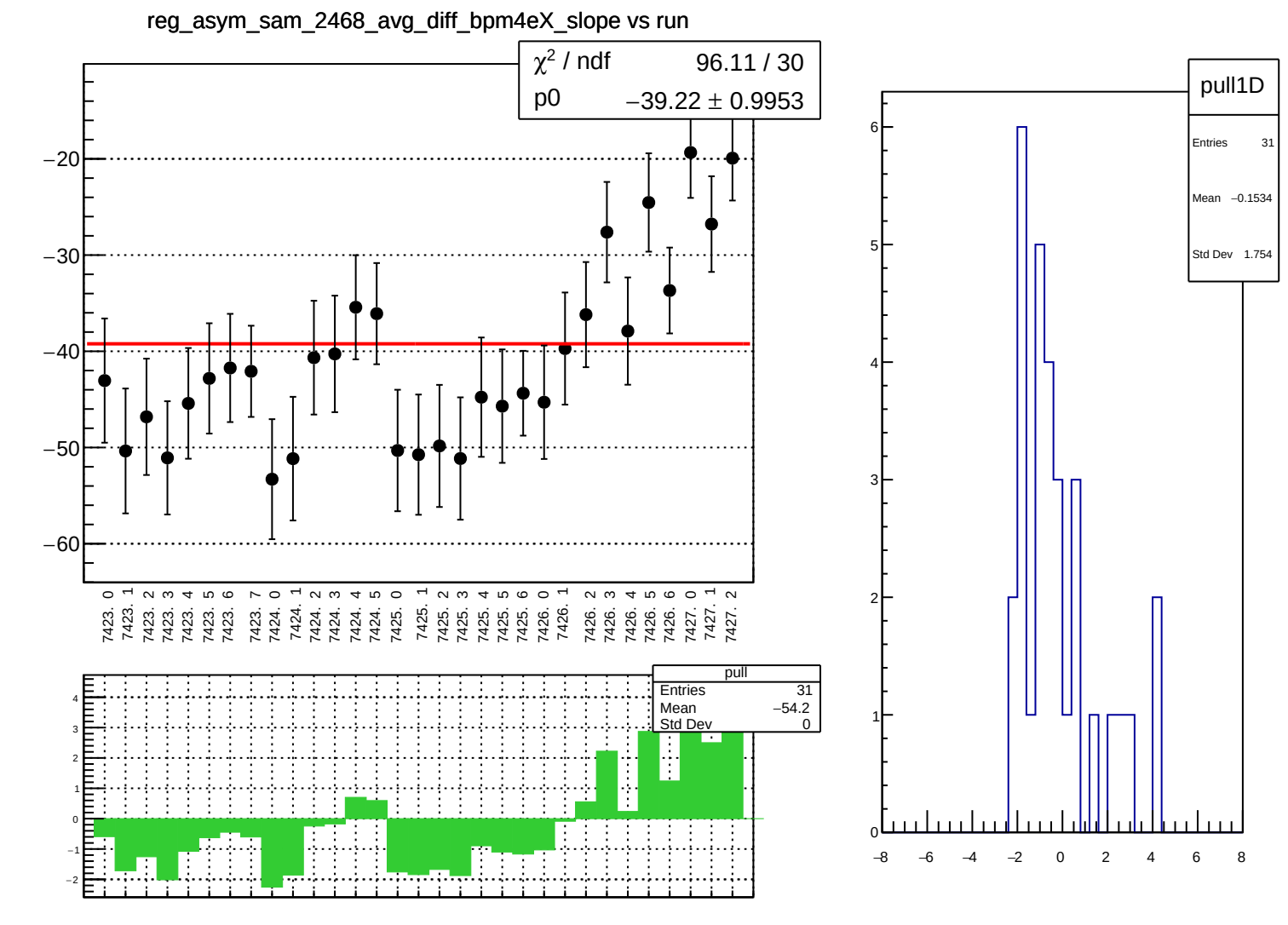

pull1D
Entries 31
Mean −0.005767
Std Dev 0.4698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

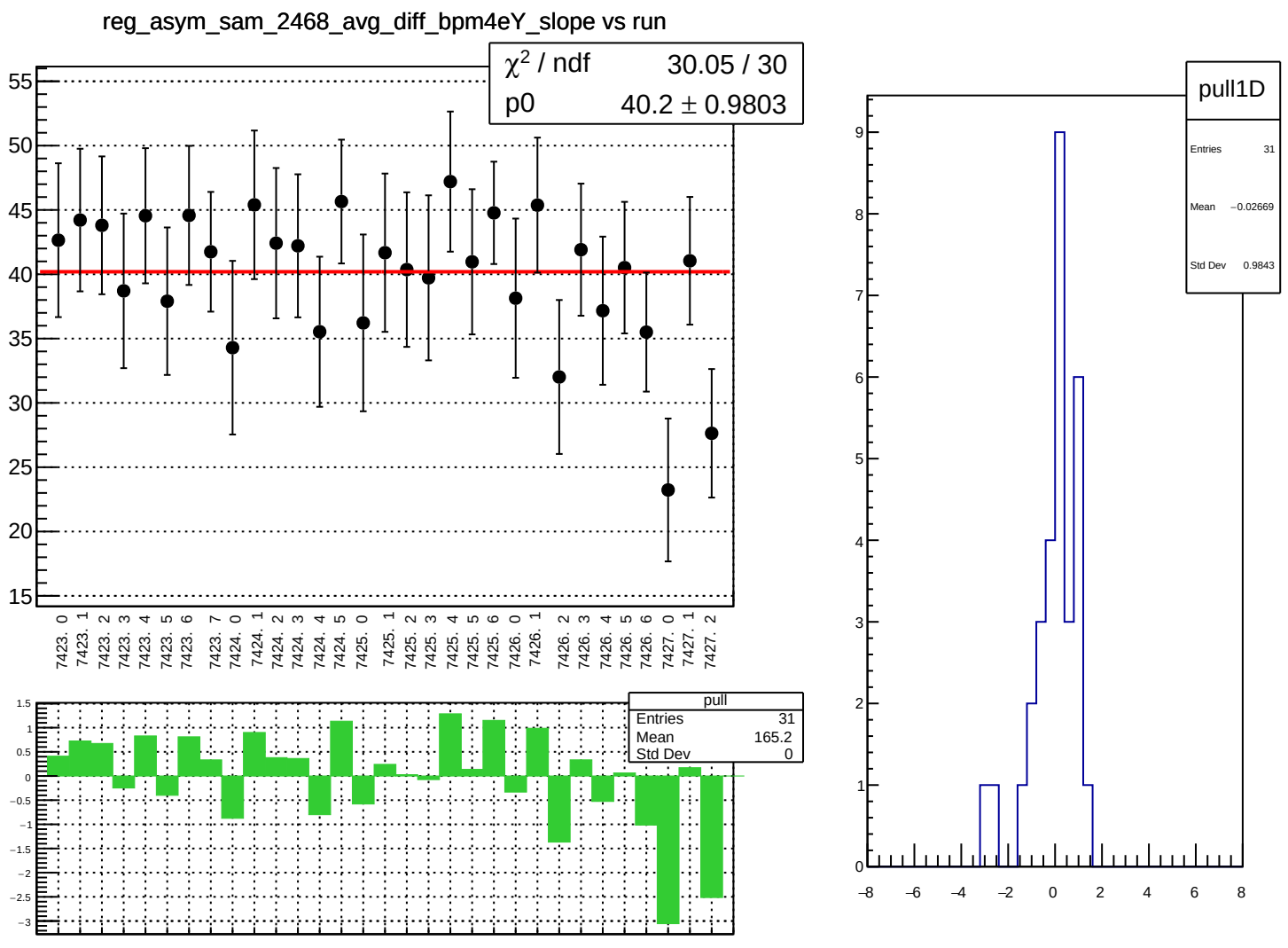

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 62.62 / 30
p0 −40.06 ± 0.9628
pull
Entries 31
Mean −51.84
Std Dev 0

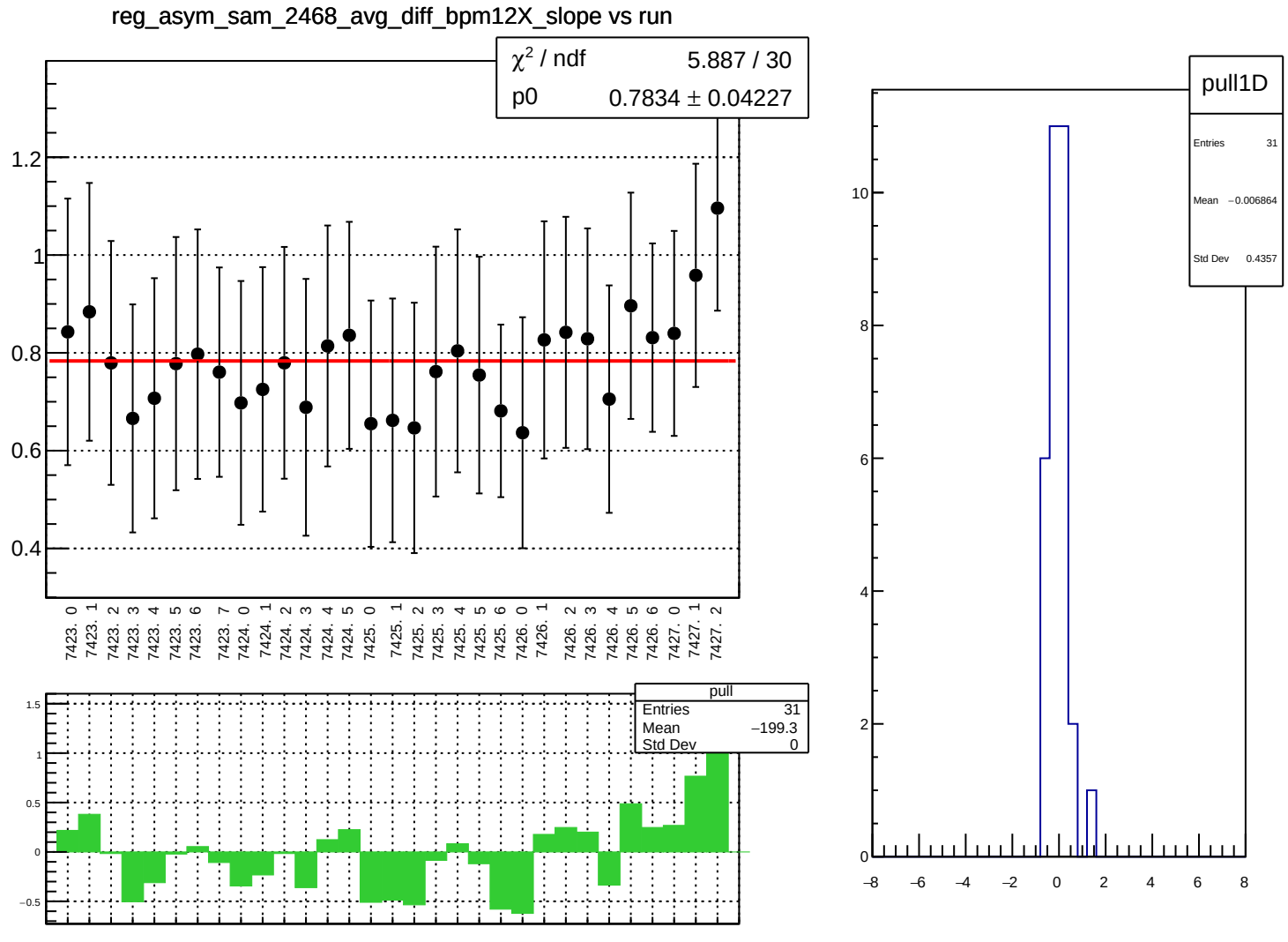

pull1D
Entries 31
Mean 0.1177
Std Dev 1.416

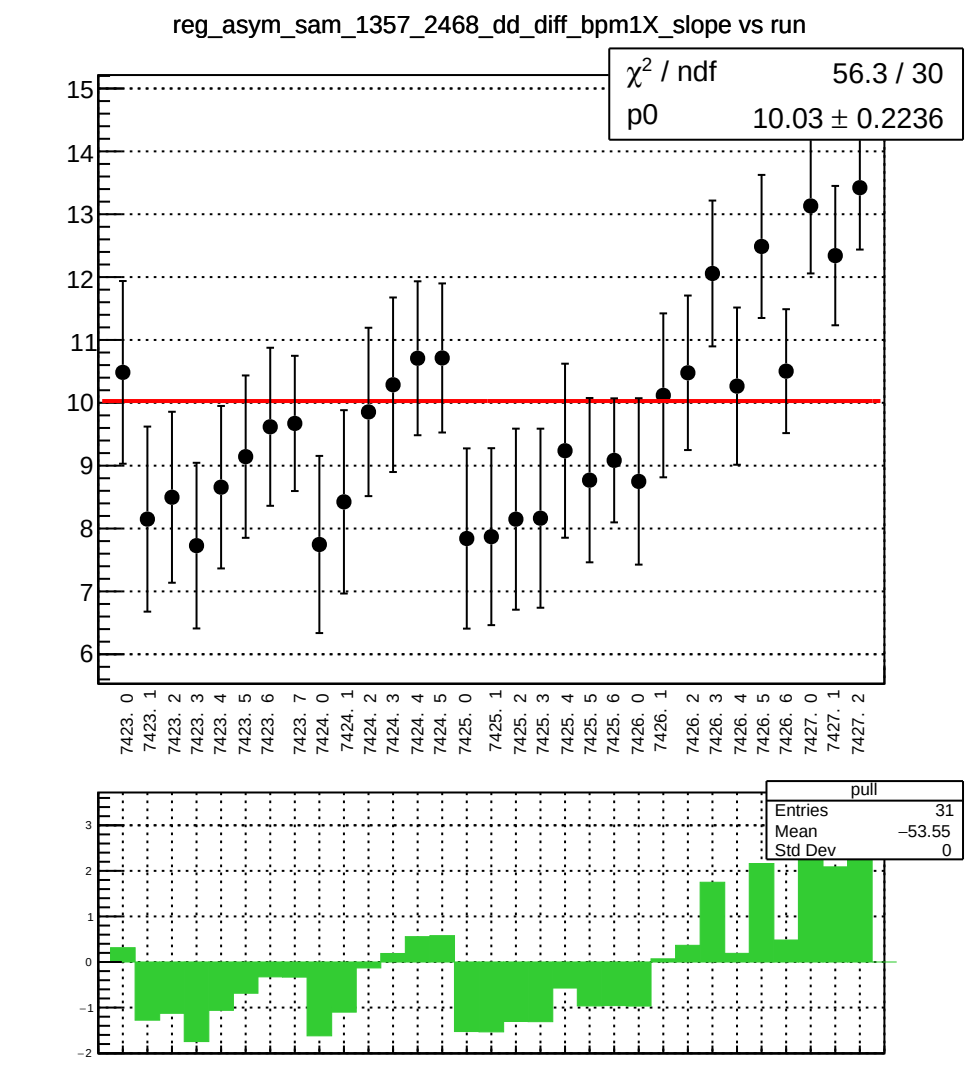

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.01 / 30
p0 16.91 ± 0.9209
pull
Entries 31
Mean 57.96
Std Dev 0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2

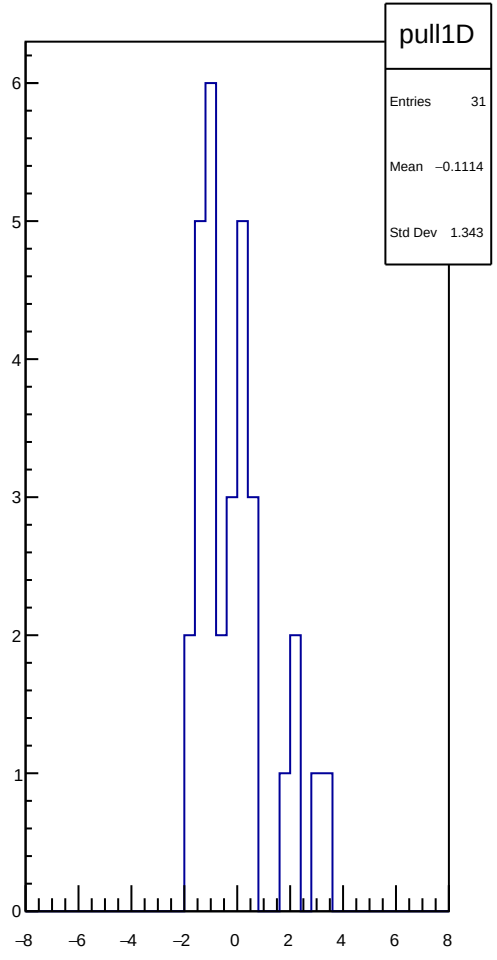

pull1D
Entries 31
Mean 0.07382
Std Dev 0.9646

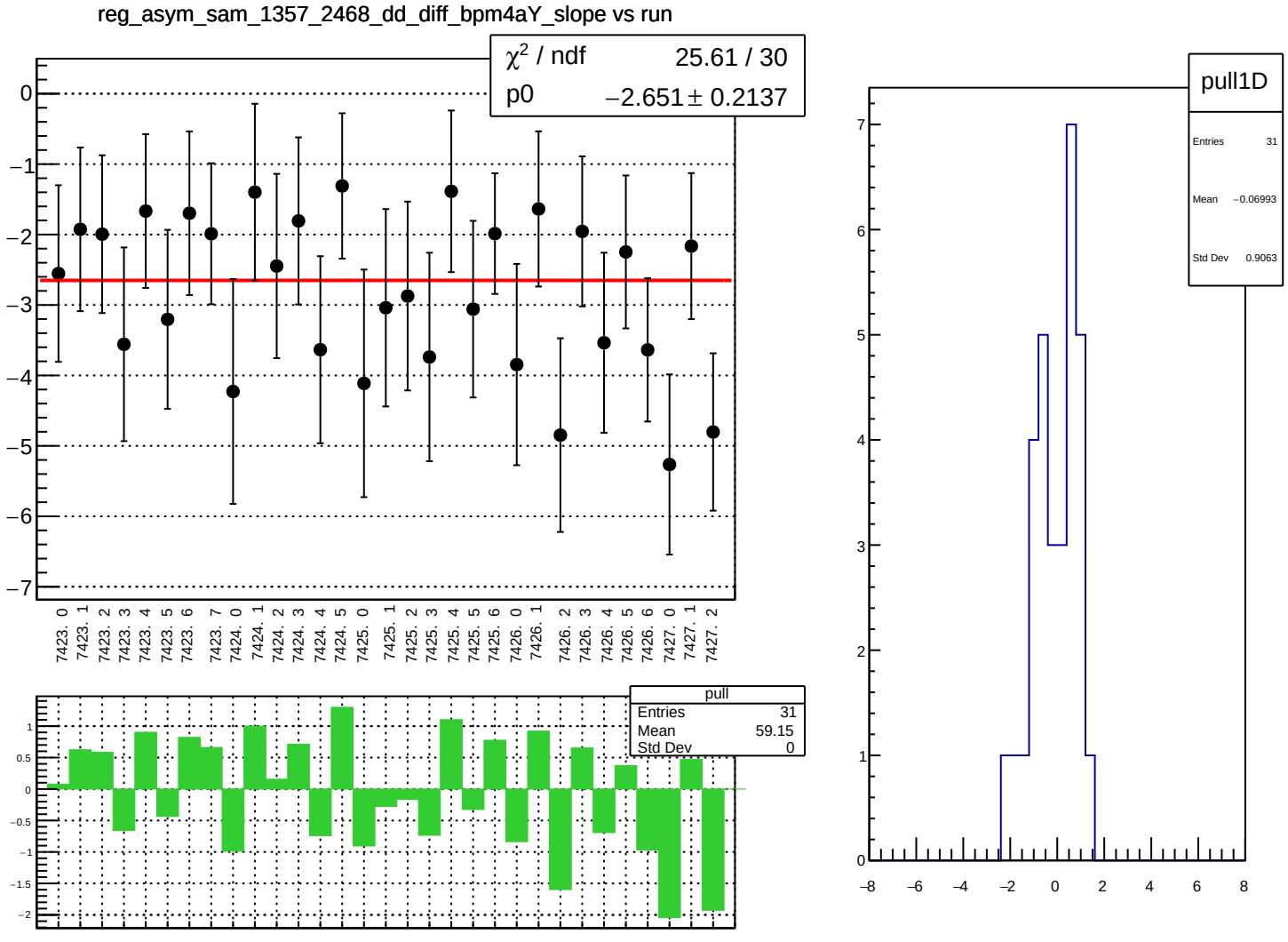

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 96.11 / 30
p0 −39.22 ± 0.9953
−20
−30
−40
−50
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −54.2
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.1534
Std Dev 1.754
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

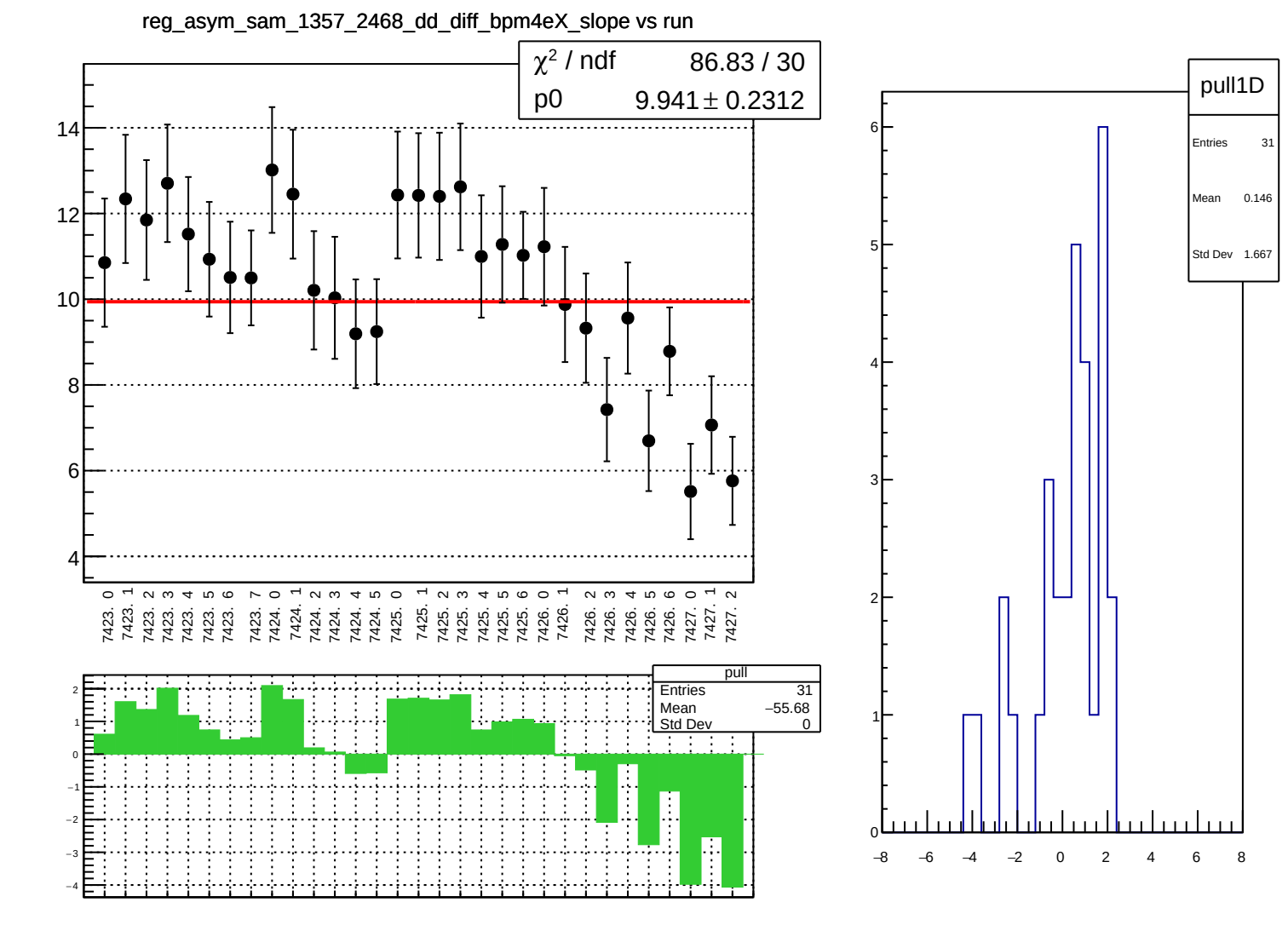

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.05 / 30
p0 40.2 ± 0.9803
pull
Entries 31
Mean 165.2
Std Dev 0
pull1D
Entries 31
Mean −0.02669
Std Dev 0.9843

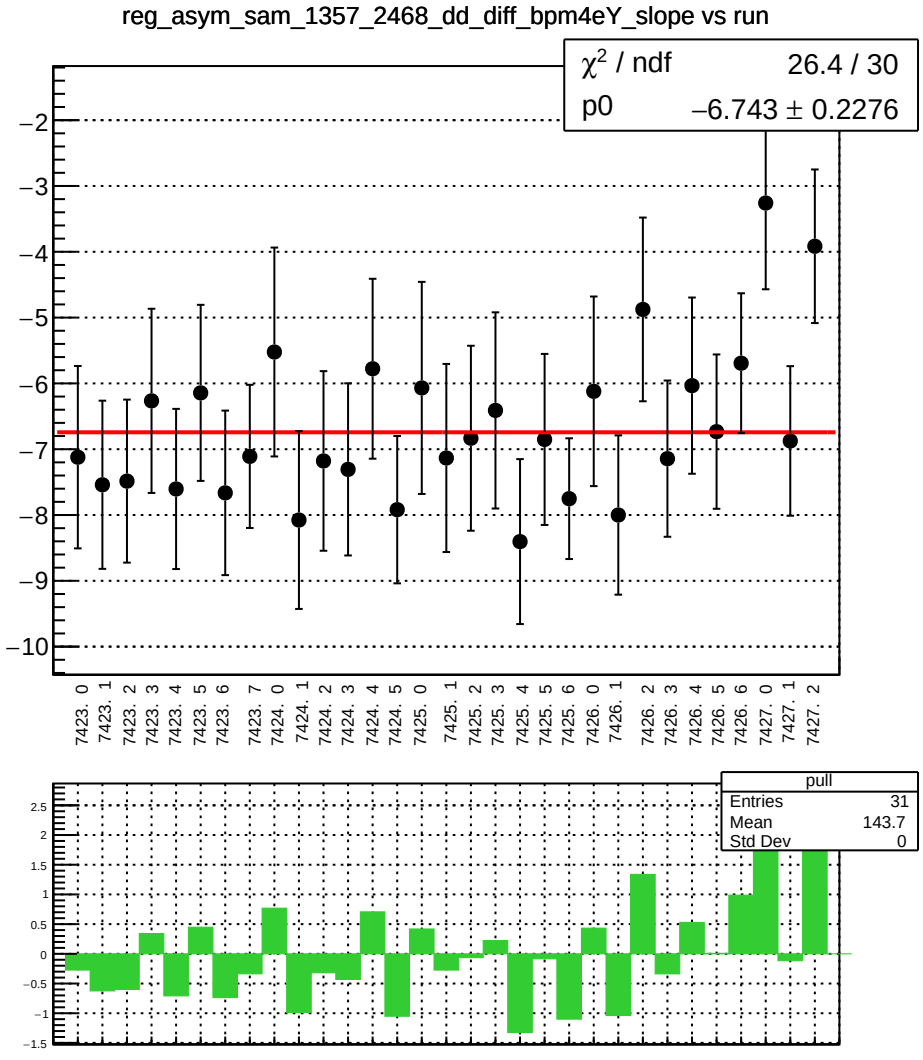

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 5.887 / 30
p0 0.7834 ± 0.04227
1.2
1
0.8
0.6
0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −199.3
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 31
Mean −0.006864
Std Dev 0.4357
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

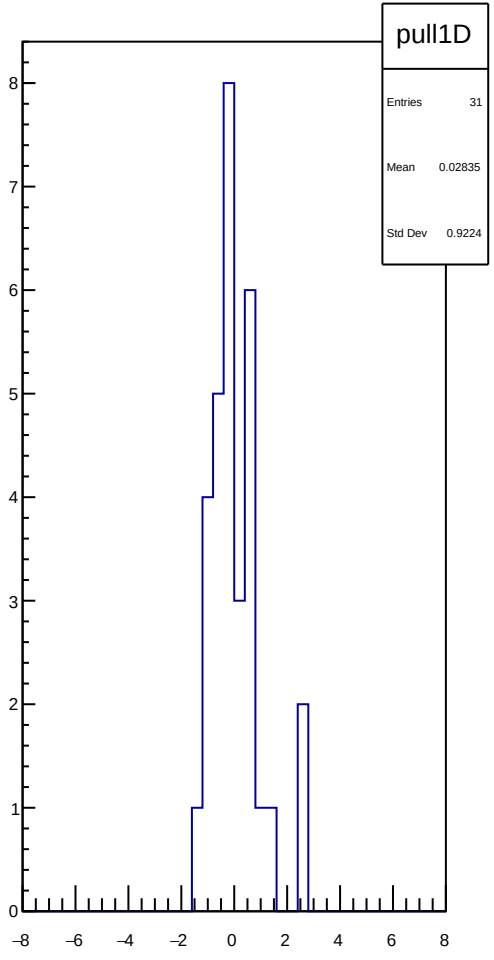

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 56.3 / 30
p0 10.03 ± 0.2236
pull
Entries 31
Mean −53.55
Std Dev 0

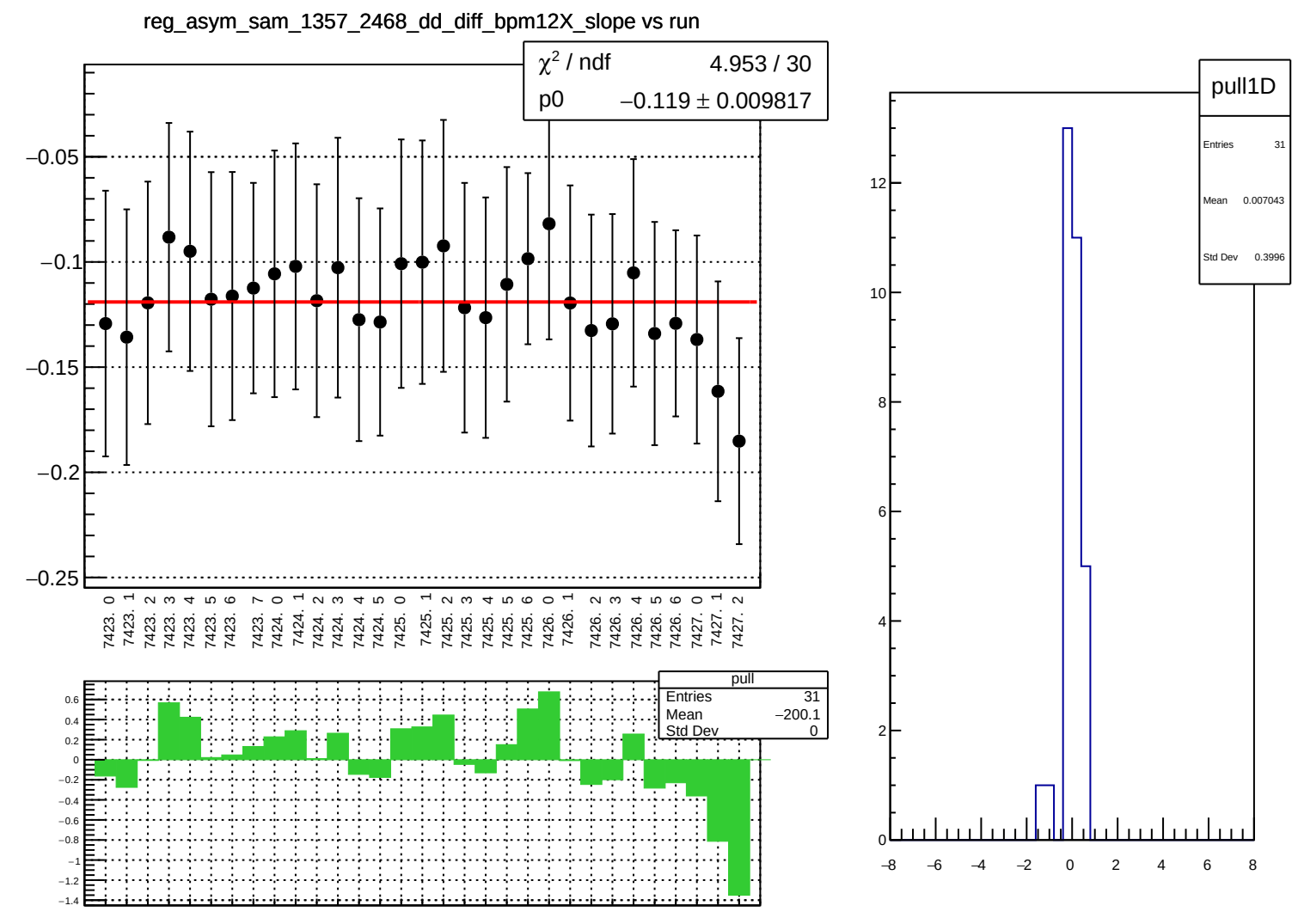

pull1D
Entries 31
Mean −0.1114
Std Dev 1.343

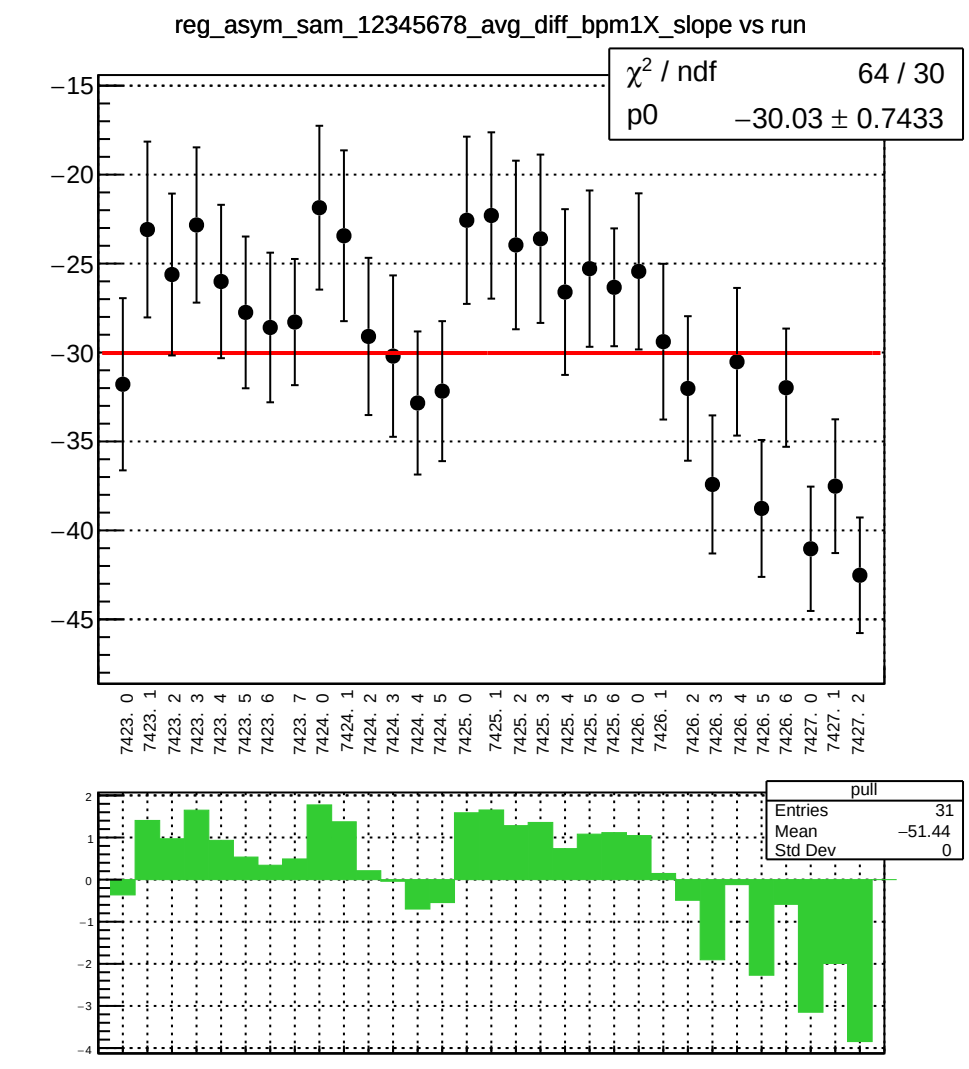

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.61 / 30
p0 −2.651 ± 0.2137
0
−1
−2
−3
−4
−5
−6
−7
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 59.15
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.06993
Std Dev 0.9063
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

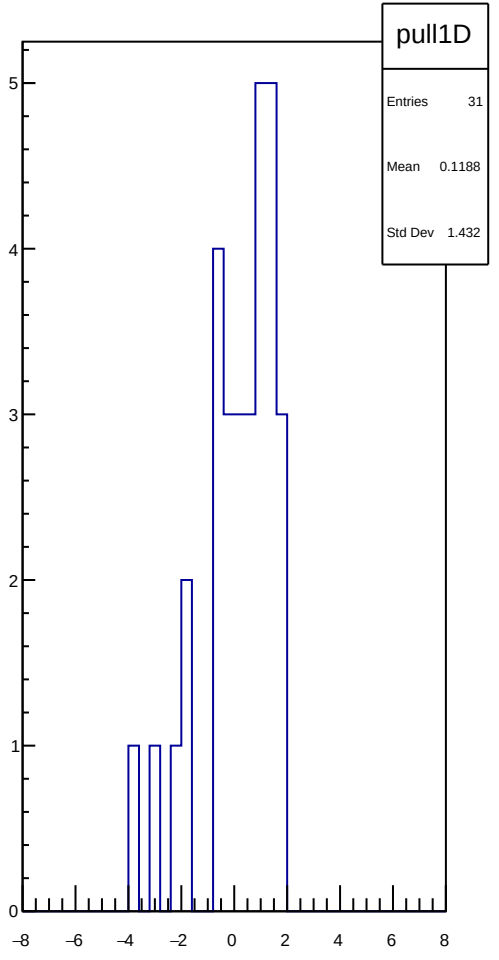

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.83 / 30
p0 9.941 ± 0.2312
pull
Entries 31
Mean −55.68
Std Dev 0
pull1D
Entries 31
Mean 0.146
Std Dev 1.667

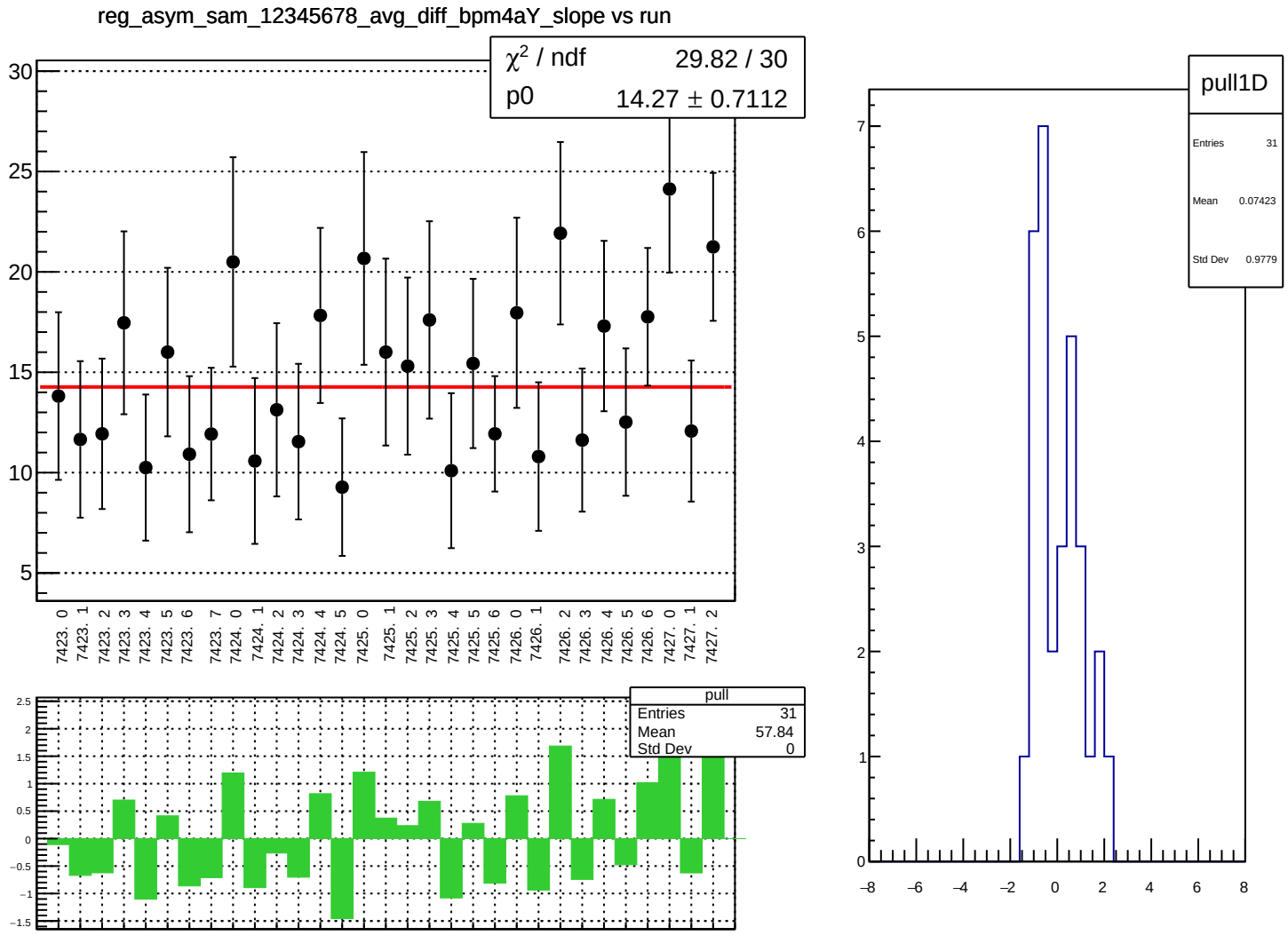

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.4 / 30
p0 −6.743 ± 0.2276
pull
Entries 31
Mean 143.7
Std Dev 0

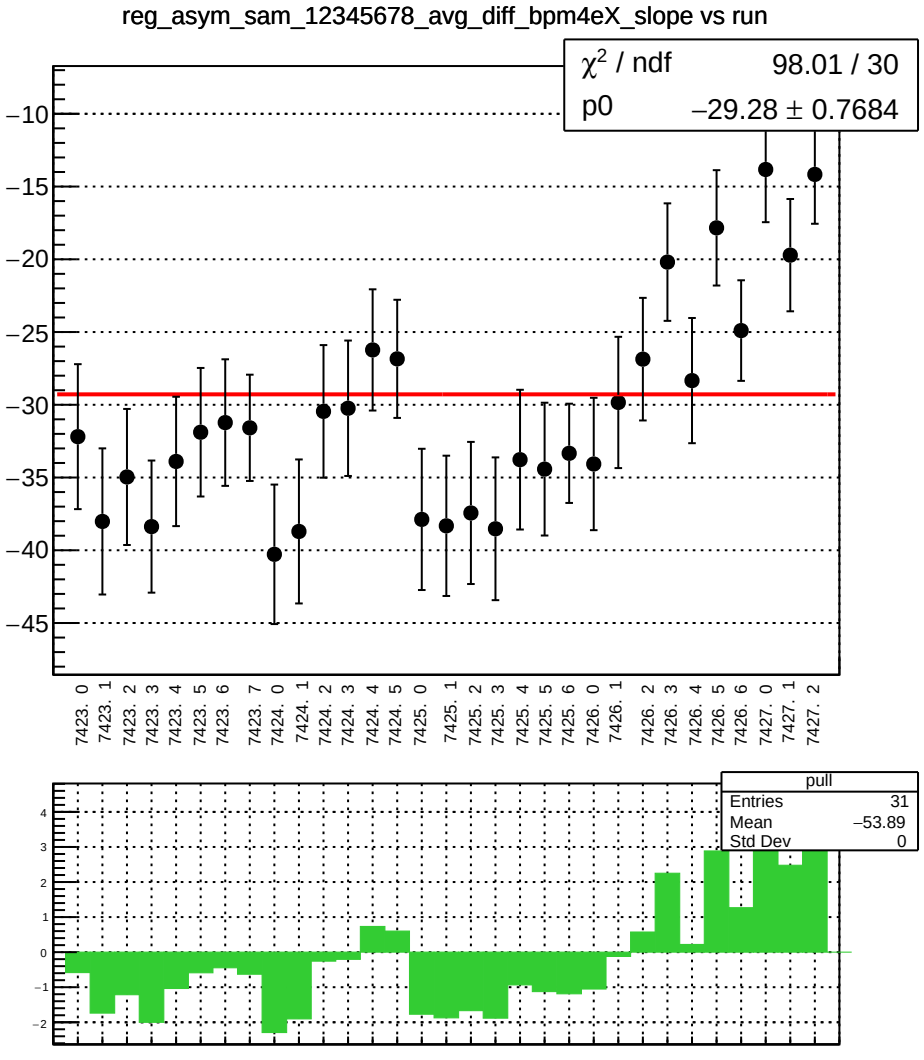

pull1D
Entries 31
Mean 0.02835
Std Dev 0.9224

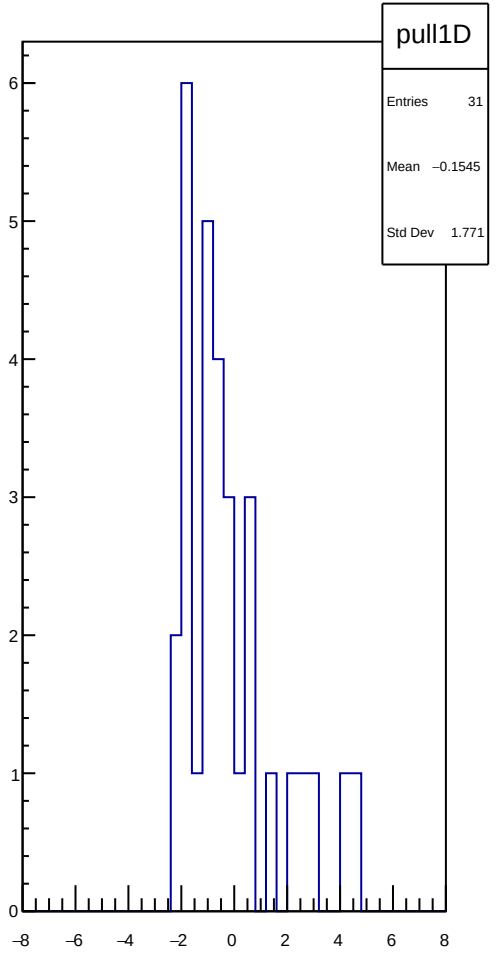

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 4.953 / 30
p0 −0.119 ± 0.009817
−0.05
−0.1
−0.15
−0.2
−0.25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −200.1
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 31
Mean 0.007043
Std Dev 0.3996
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

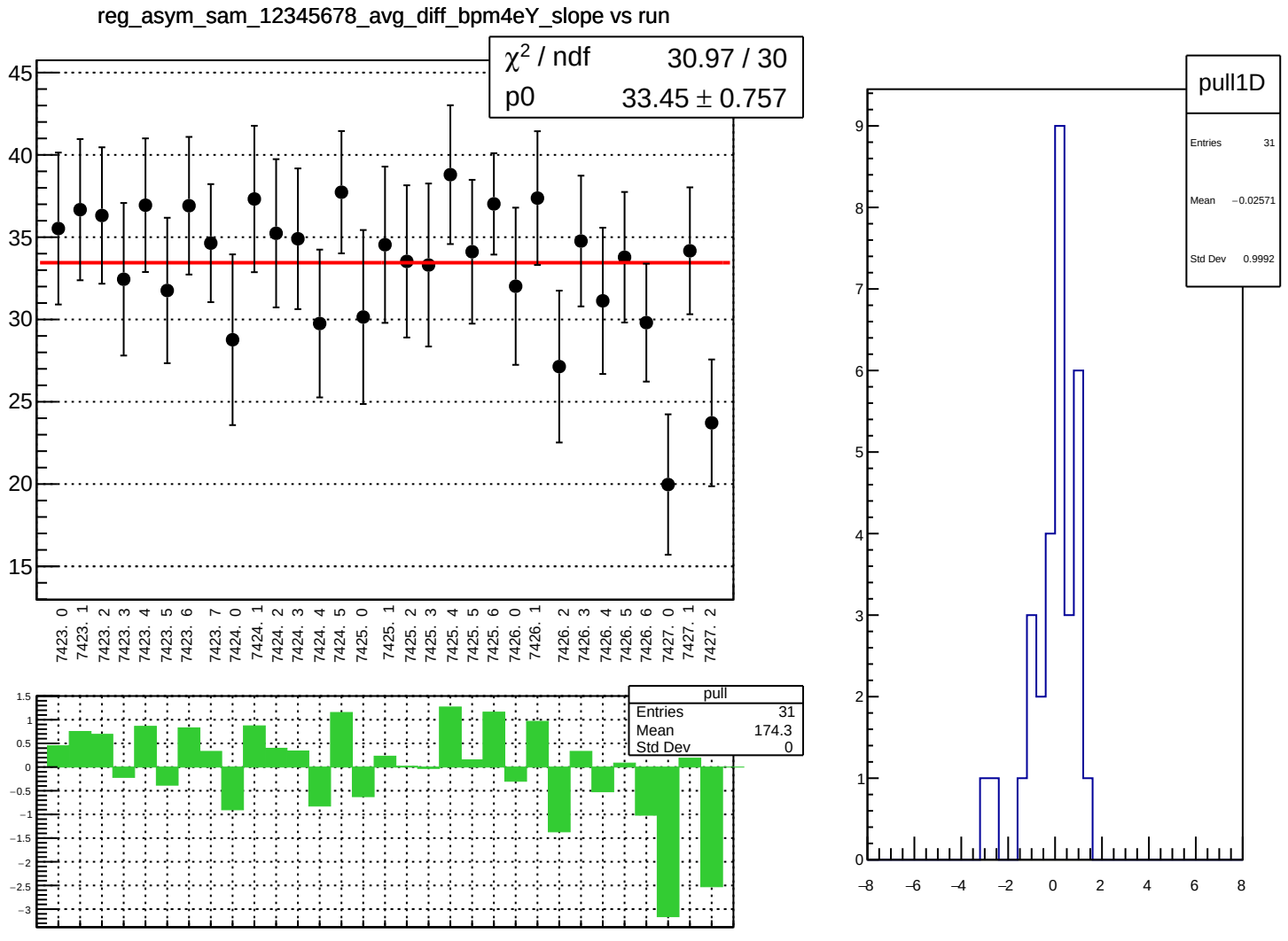

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 64 / 30
p0 −30.03 ± 0.7433
−15
−20
−25
−30
−35
−40
−45
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −51.44
Std Dev 0
2
1
0
−1
−2
−3
−4

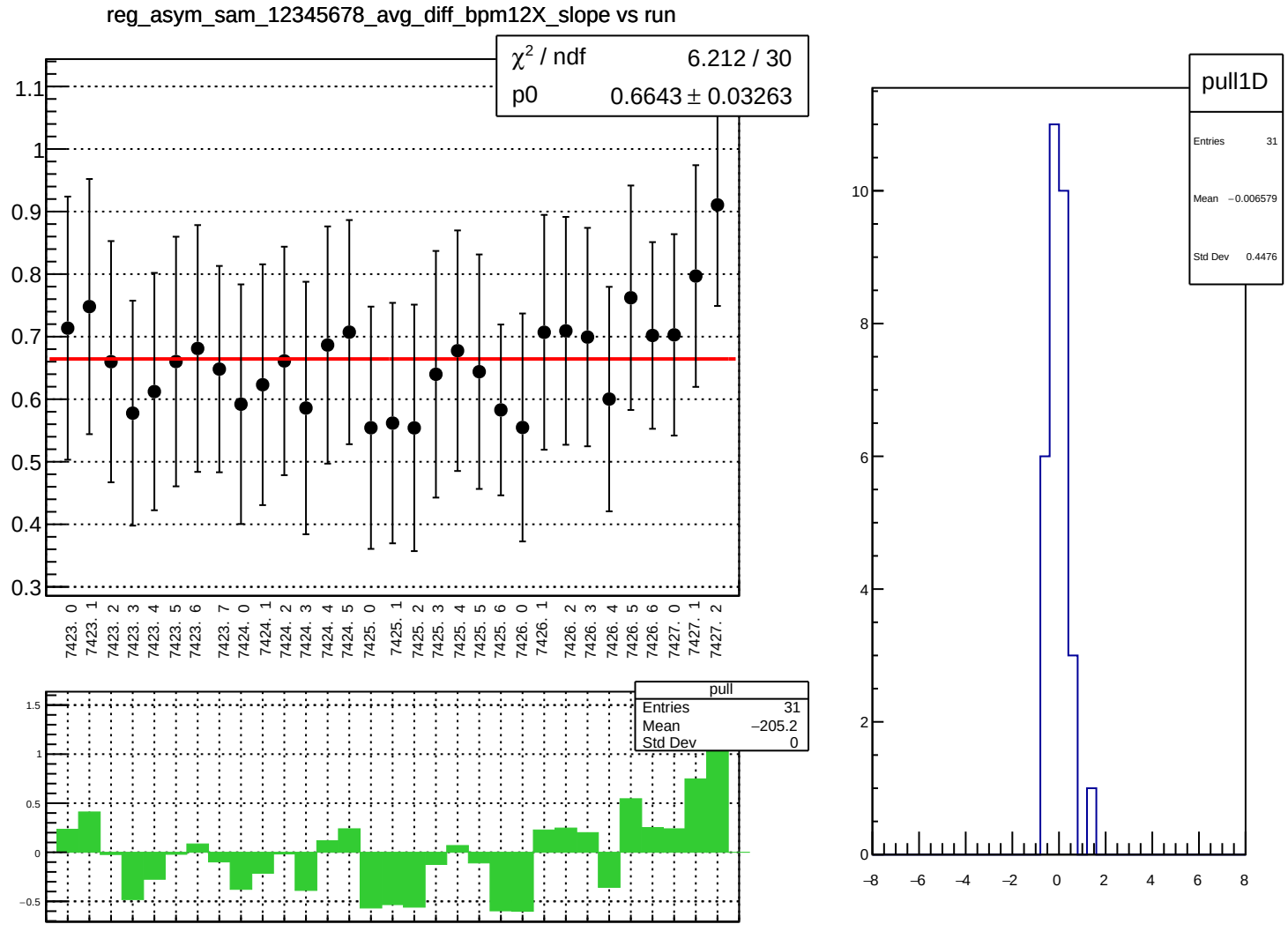

pull1D
Entries 31
Mean 0.1188
Std Dev 1.432
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

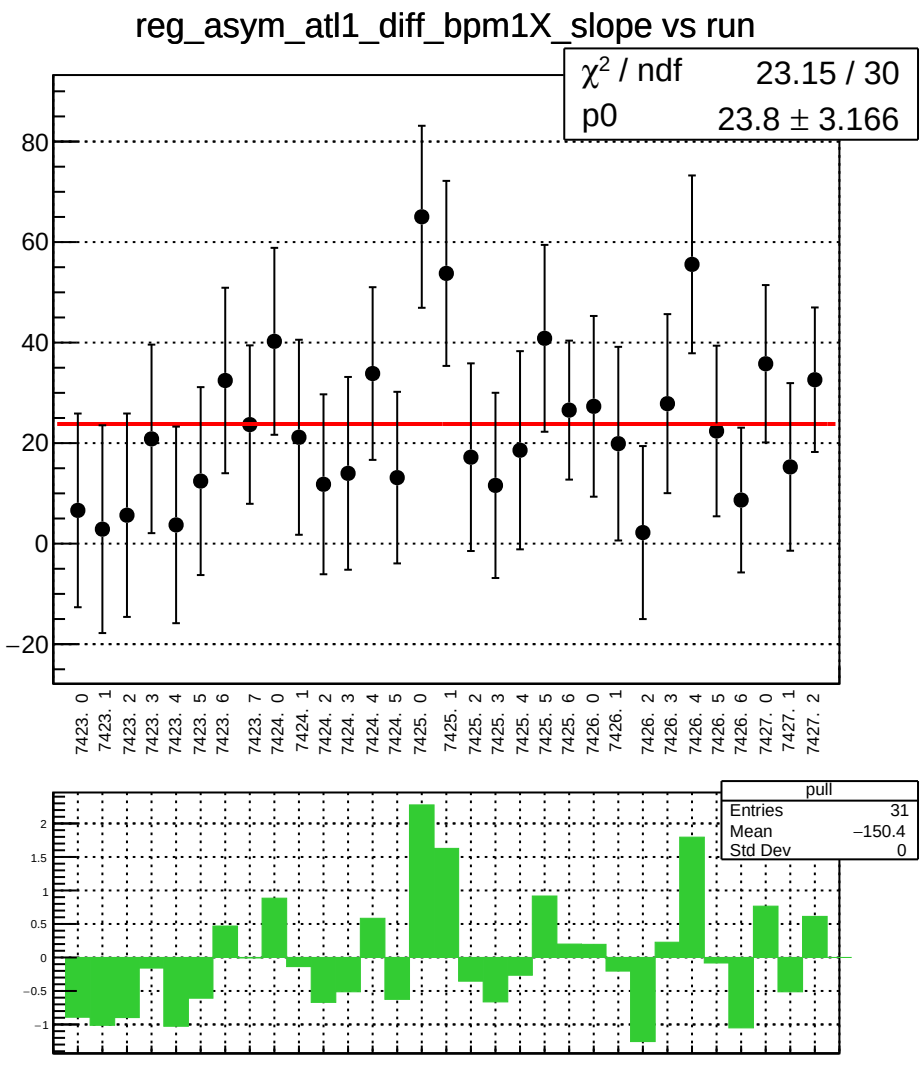

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.82 / 30
p0 14.27 ± 0.7112
30
25
20
15
10
5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 57.84
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.07423
Std Dev 0.9779
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

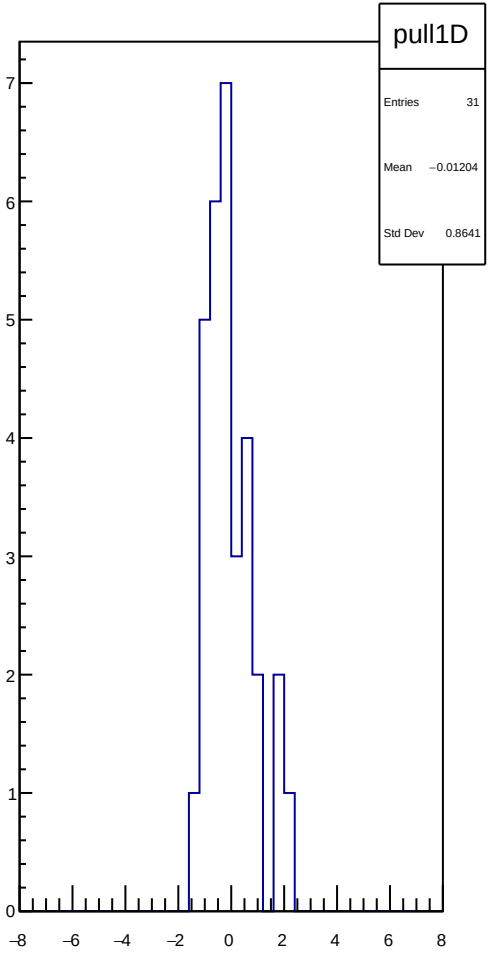

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.01 / 30
p0 −29.28 ± 0.7684
pull
Entries 31
Mean −53.89
Std Dev 0

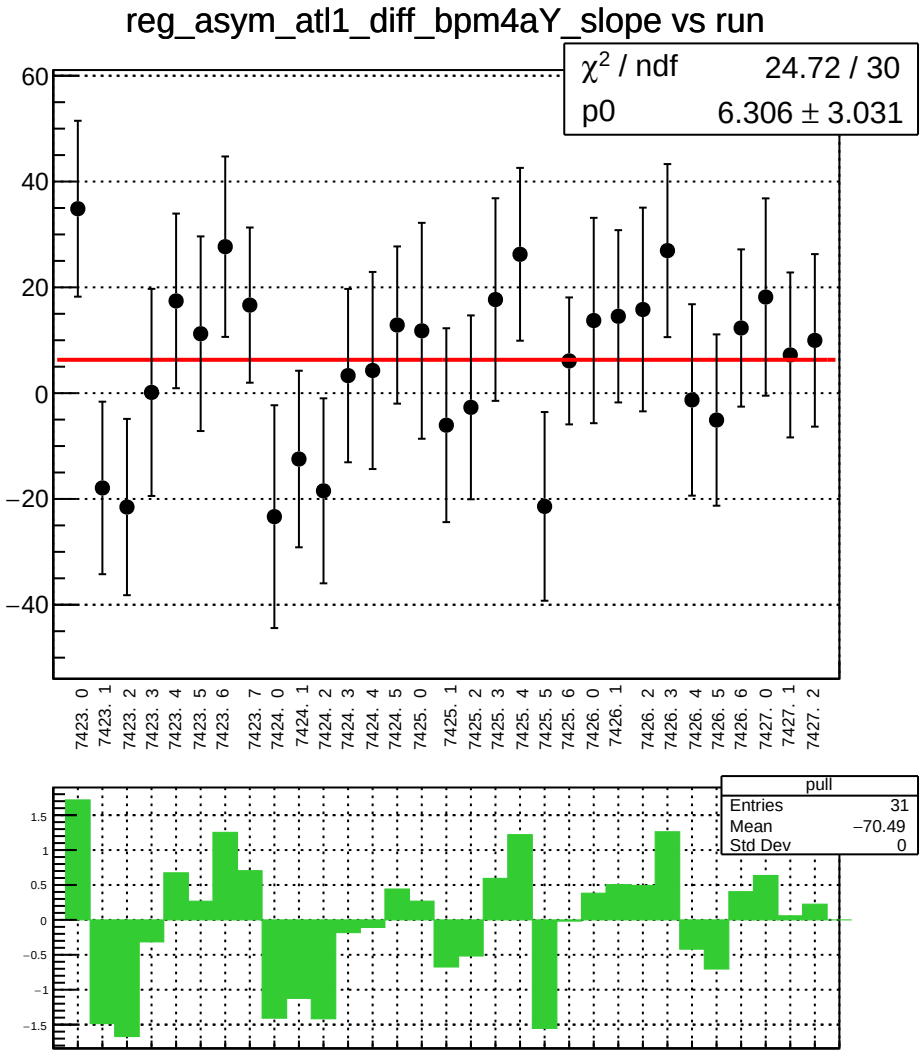

pull1D
Entries 31
Mean −0.1545
Std Dev 1.771

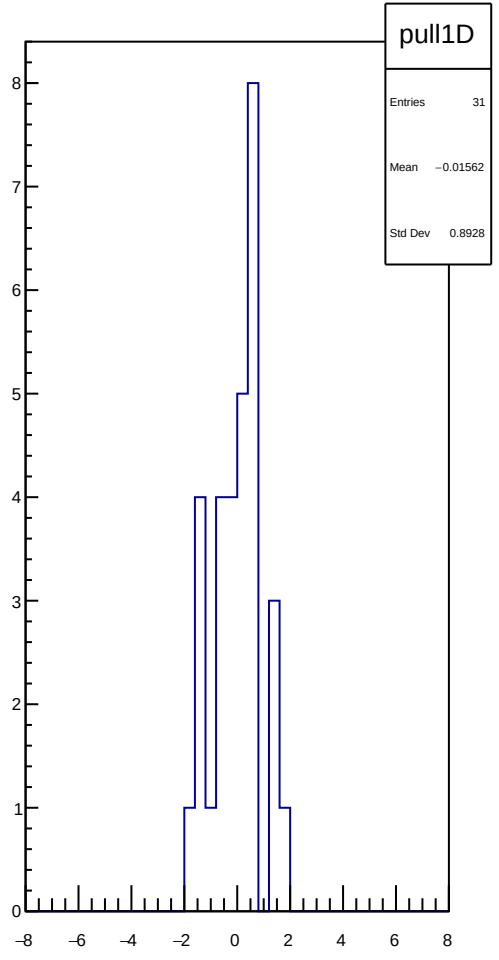

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.97 / 30
p0 33.45 ± 0.757
45
40
35
30
25
20
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 174.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 31
Mean −0.02571
Std Dev 0.9992
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

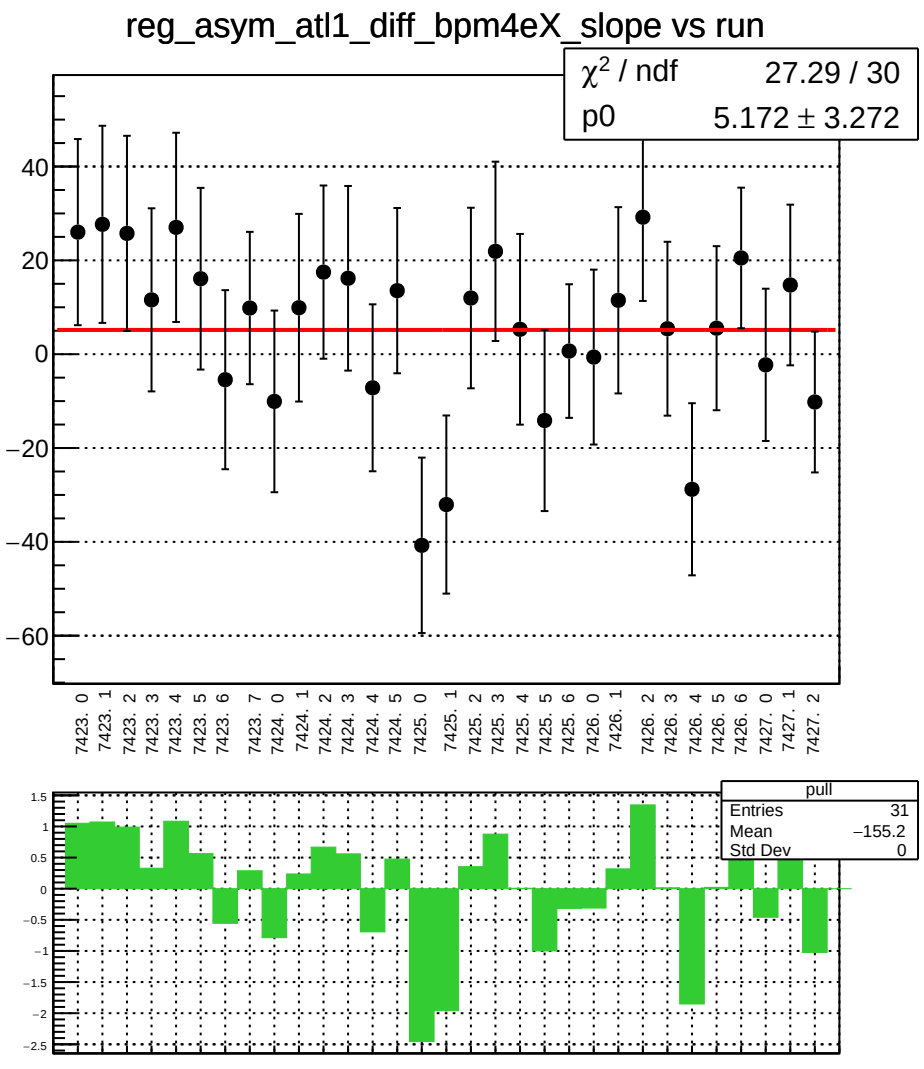

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 6.212 / 30
p0 0.6643 ± 0.03263
pull
Entries 31
Mean −205.2
Std Dev 0
pull1D
Entries 31
Mean −0.006579
Std Dev 0.4476

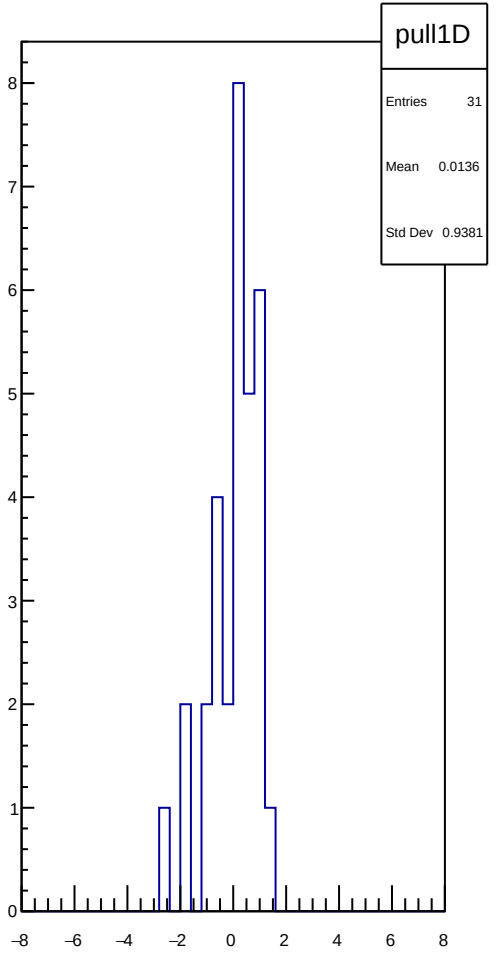

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 23.15 / 30
p0 23.8 ± 3.166
80
60
40
20
0
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −150.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

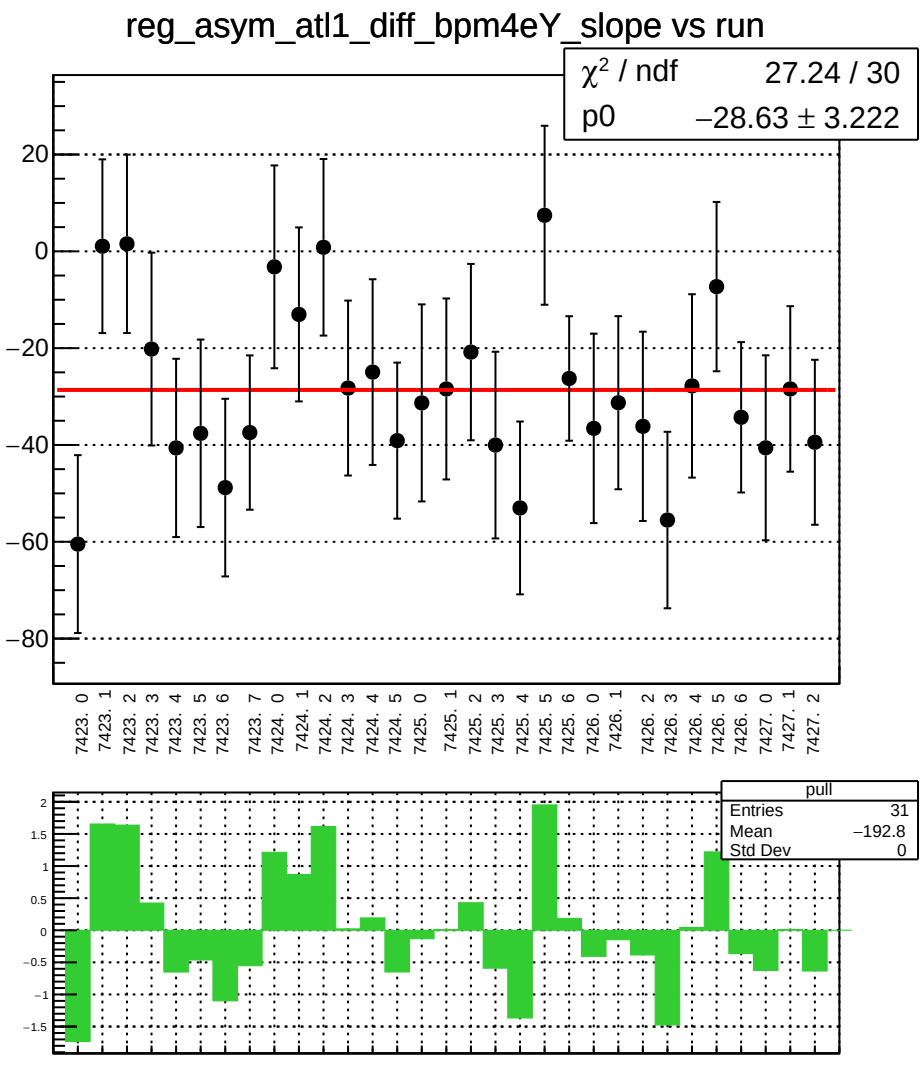

pull1D
Entries 31
Mean −0.01204
Std Dev 0.8641
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

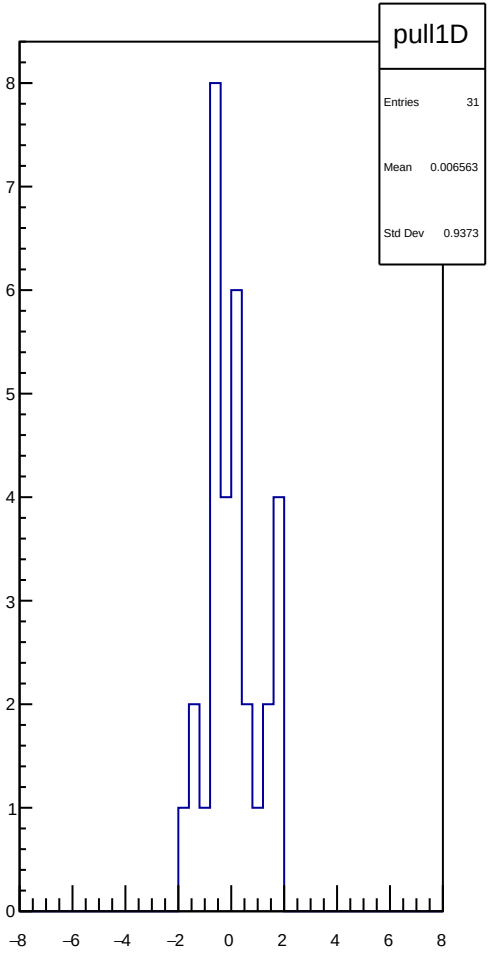

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 24.72 / 30
p0 6.306 ± 3.031
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −70.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

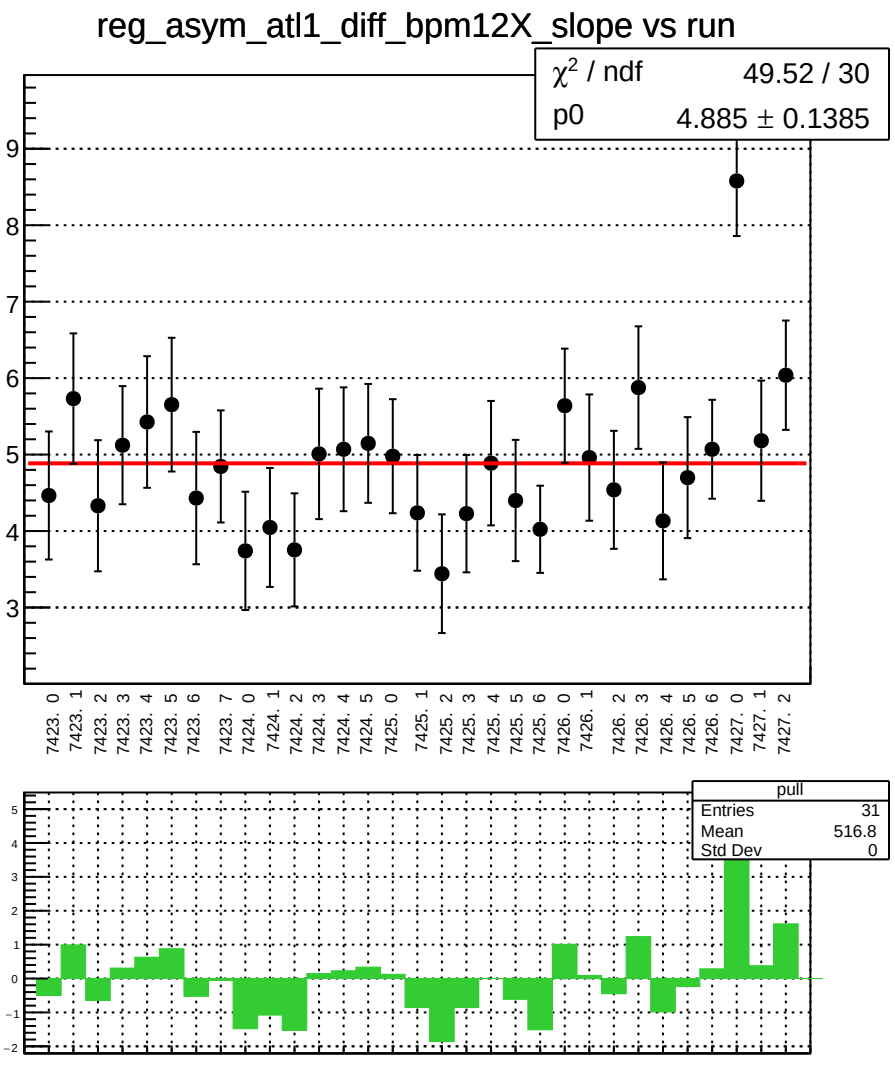

pull1D
Entries 31
Mean −0.01562
Std Dev 0.8928
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

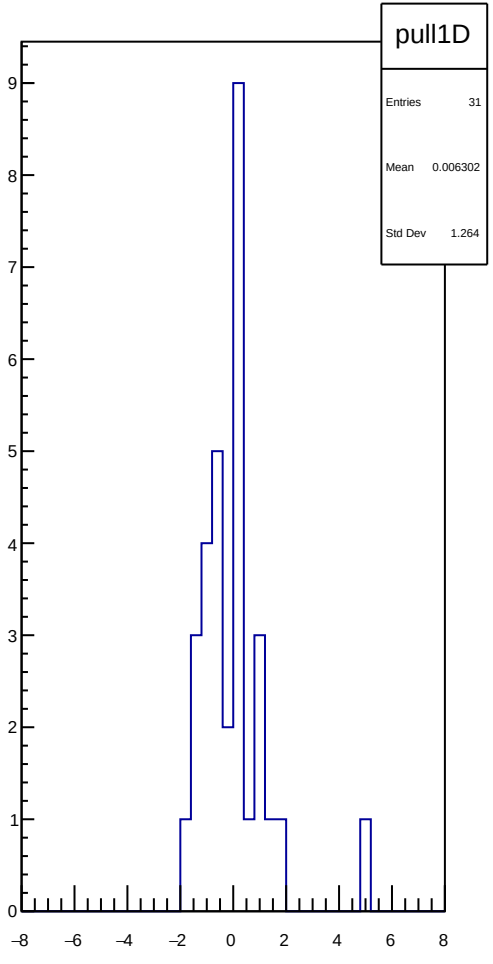

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 27.29 / 30
p0 5.172 ± 3.272
40
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −155.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

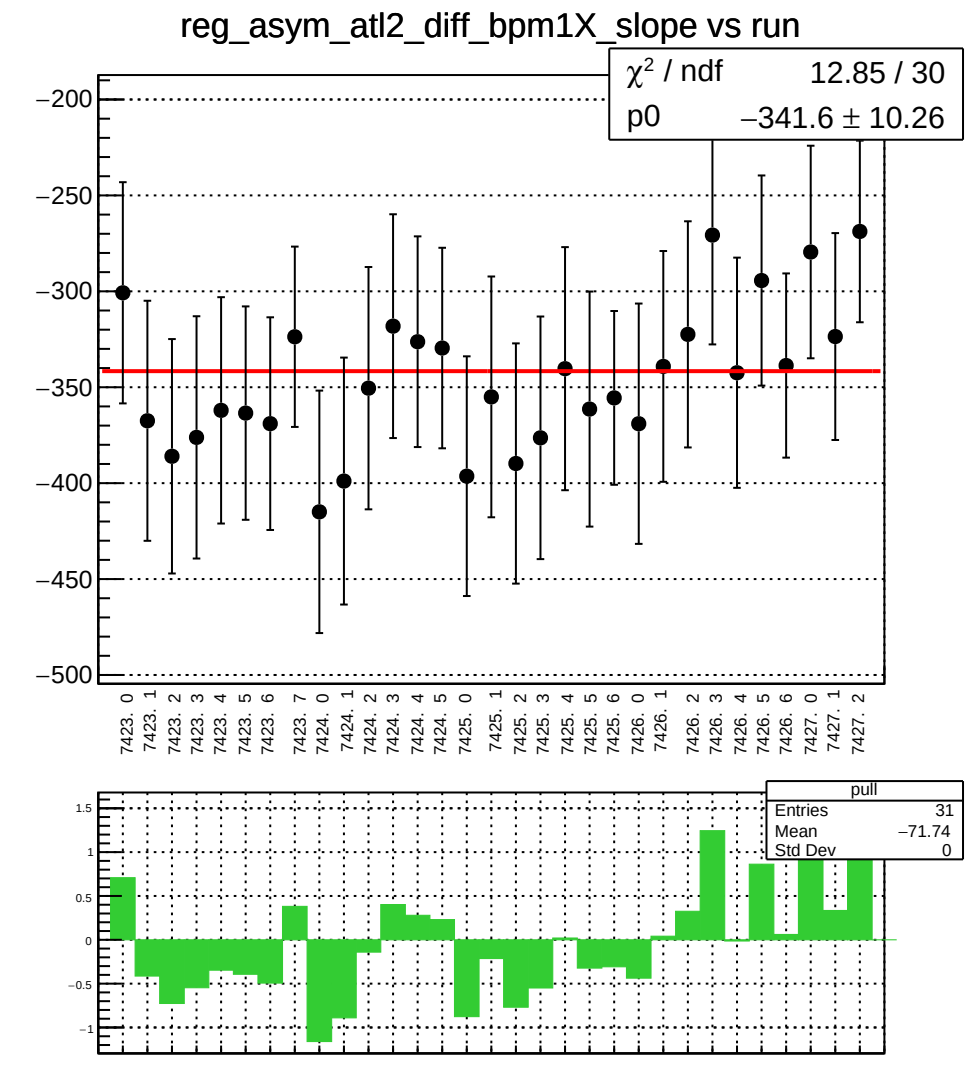

pull1D
Entries 31
Mean 0.0136
Std Dev 0.9381
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

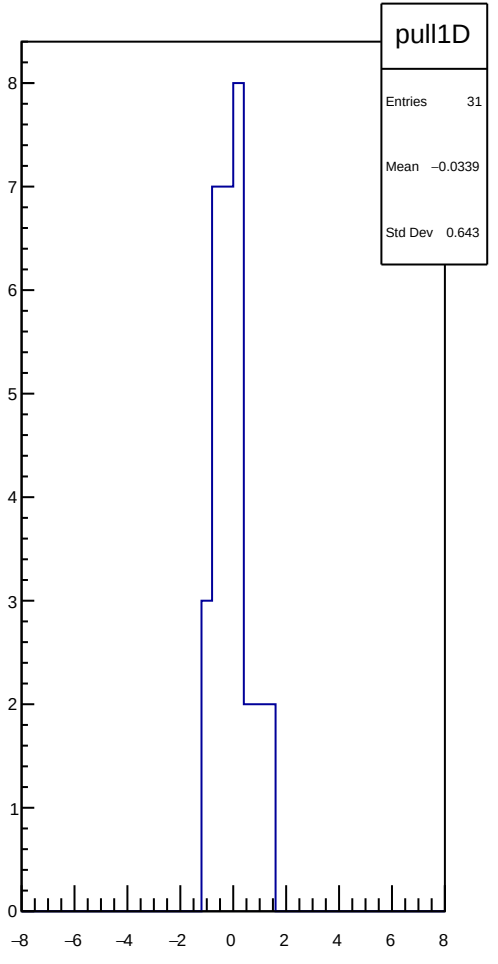

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 27.24 / 30
p0 −28.63 ± 3.222
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −192.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

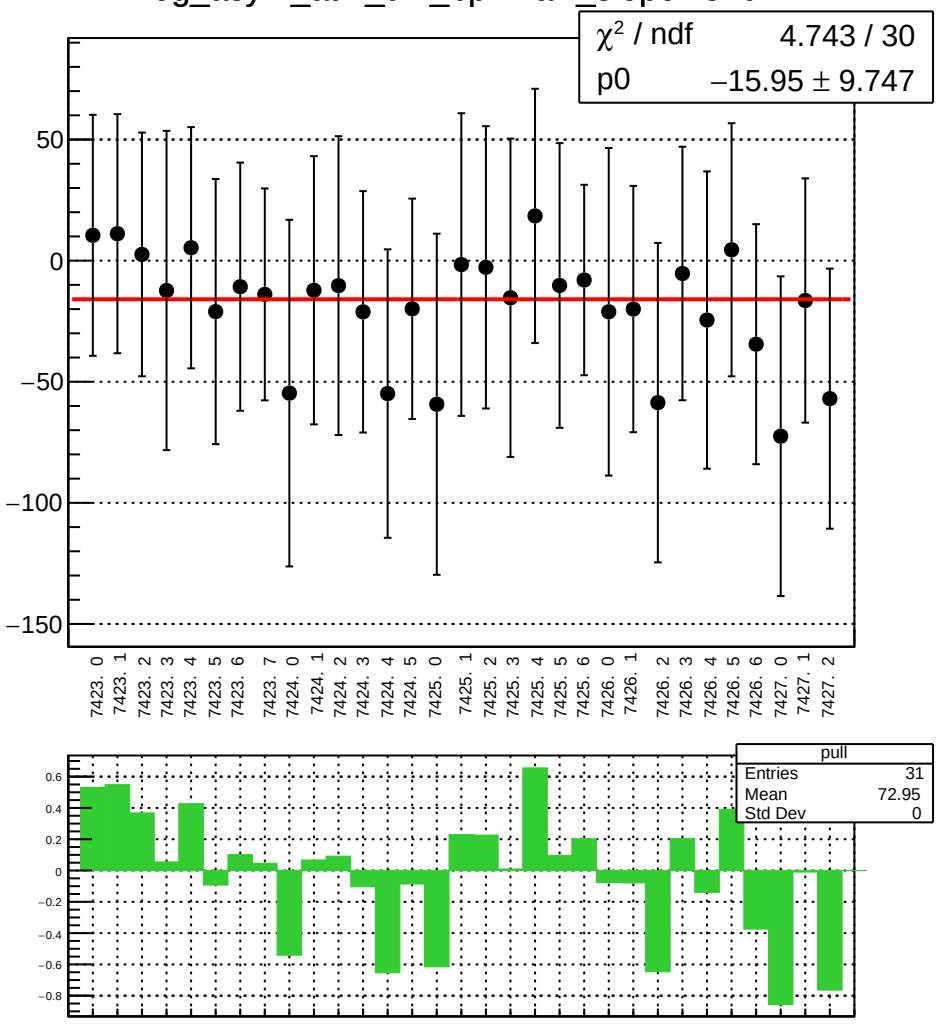

pull1D
Entries 31
Mean 0.006563
Std Dev 0.9373
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

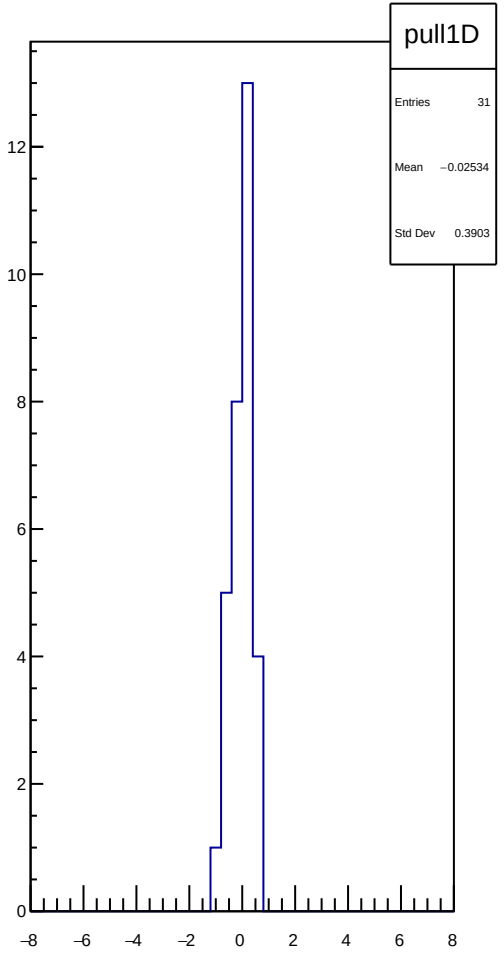

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 49.52 / 30
p0 4.885 ± 0.1385
pull
Entries 31
Mean 516.8
Std Dev 0

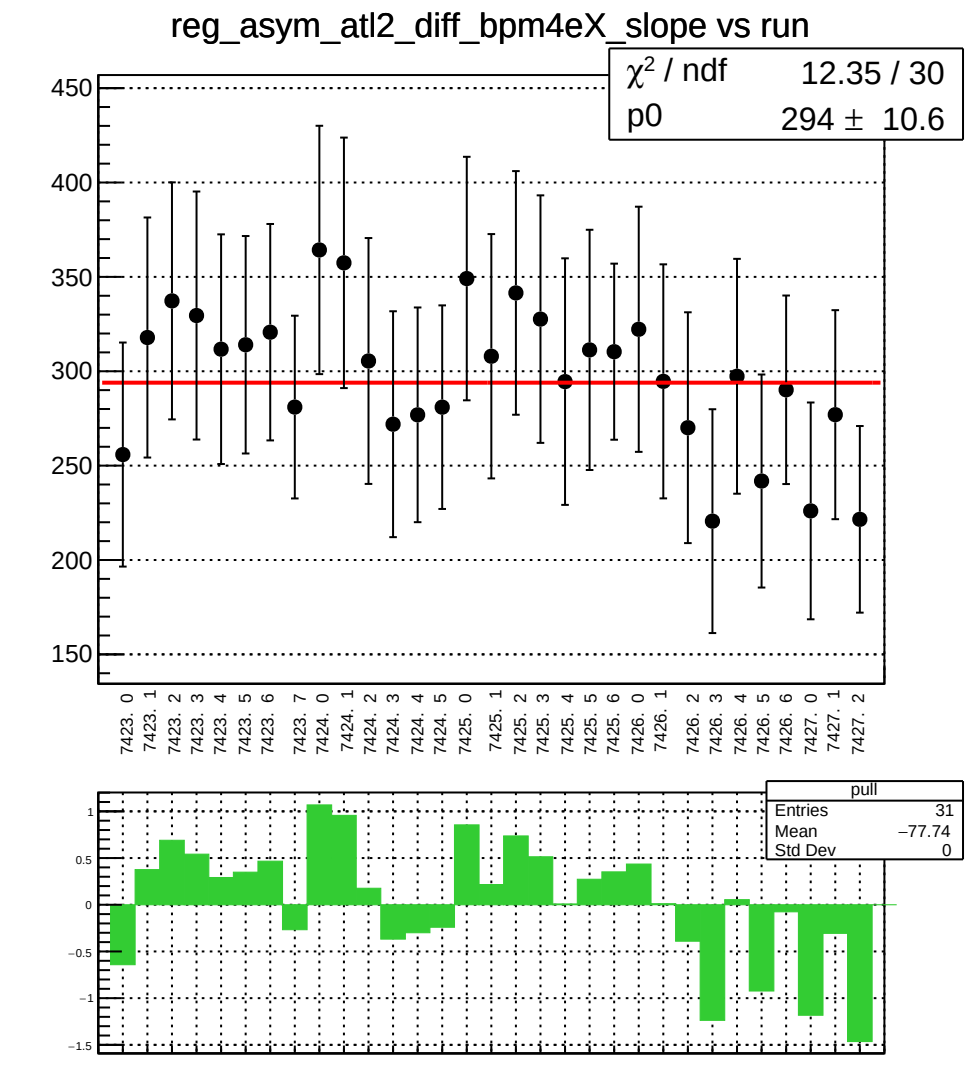

pull1D
Entries 31
Mean 0.006302
Std Dev 1.264

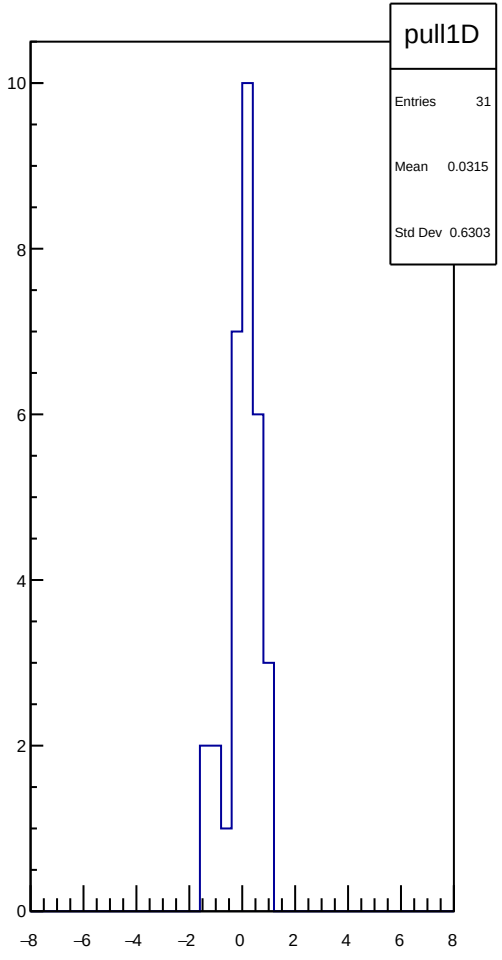

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 12.85 / 30
p0 −341.6 ± 10.26
−200
−250
−300
−350
−400
−450
−500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −71.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1

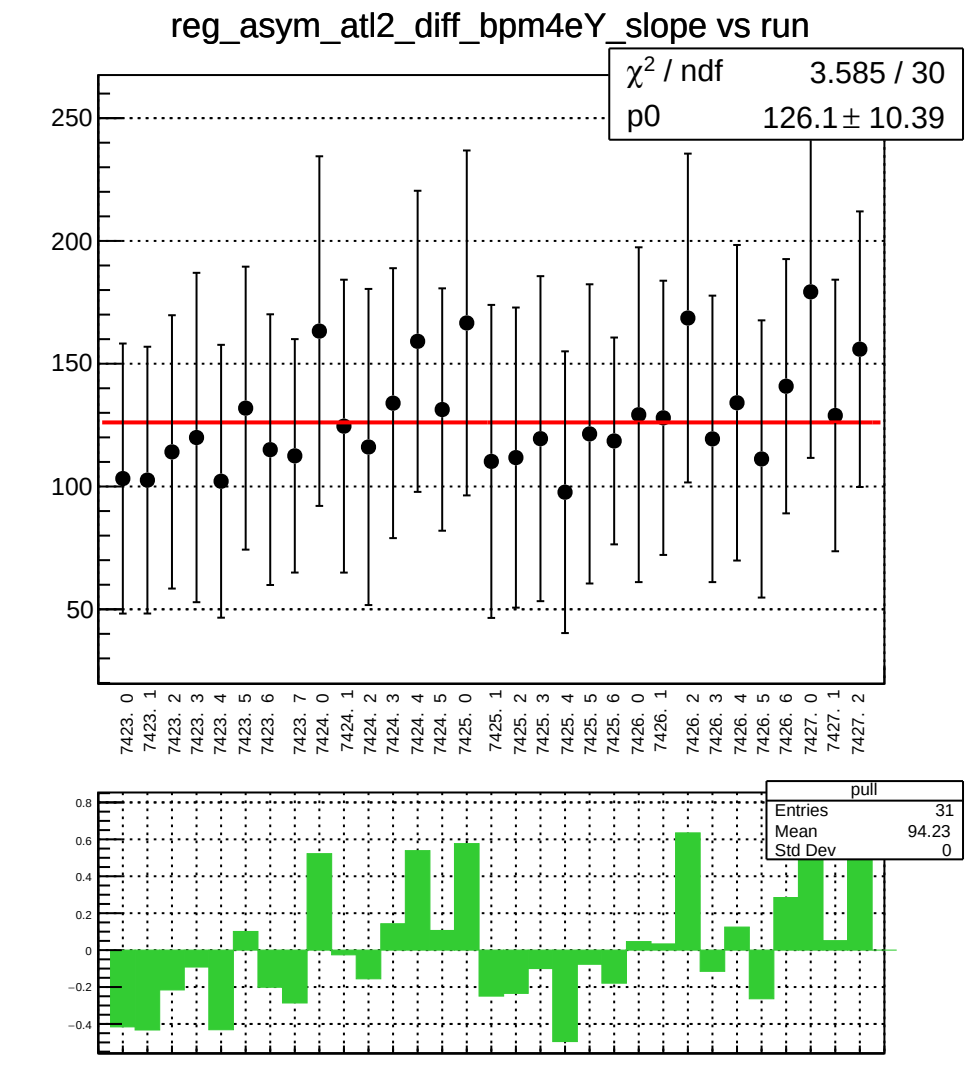

pull1D
Entries 31
Mean −0.0339
Std Dev 0.643
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

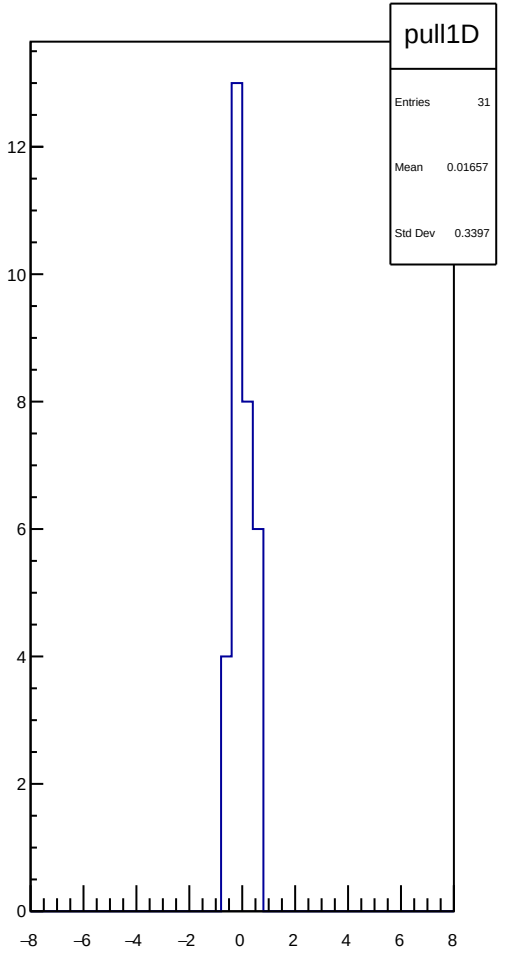

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.743 / 30
p0 −15.95 ± 9.747
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 72.95
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

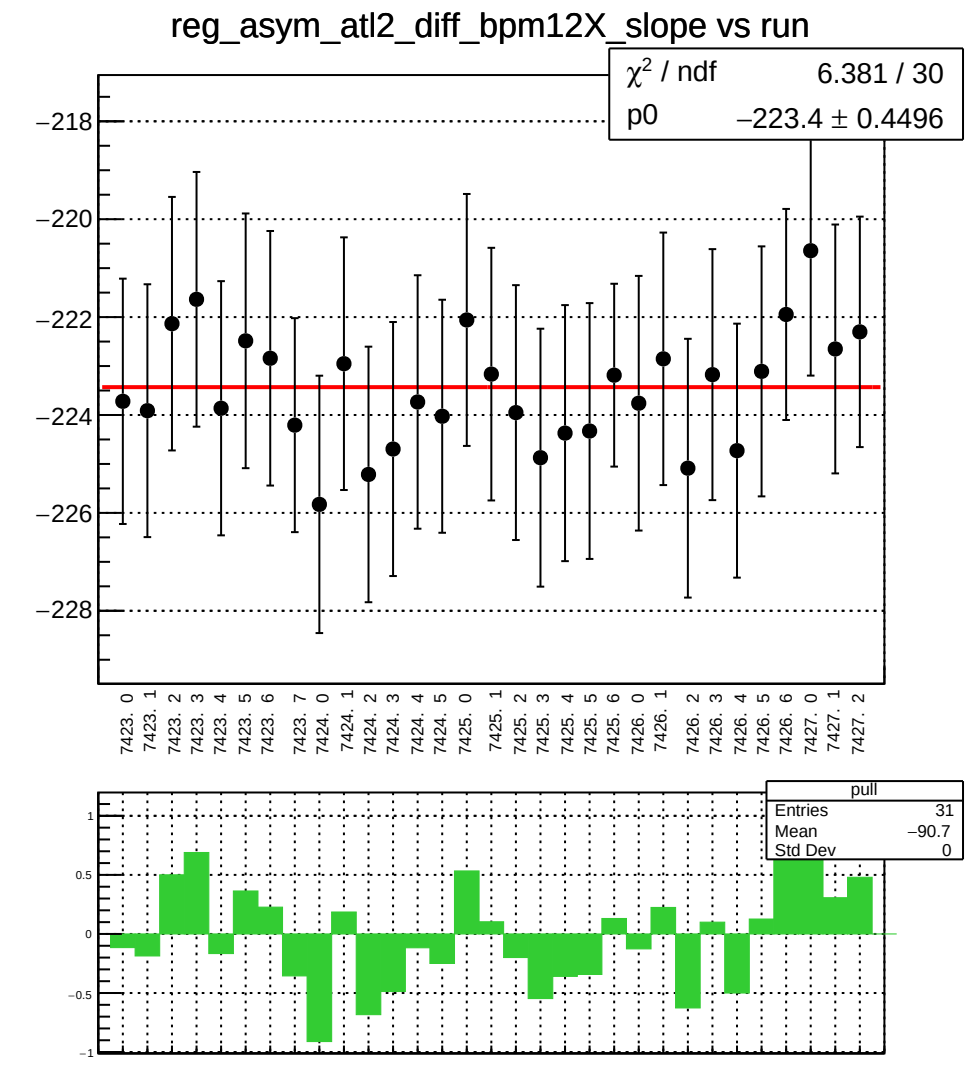

pull1D
Entries 31
Mean −0.02534
Std Dev 0.3903
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

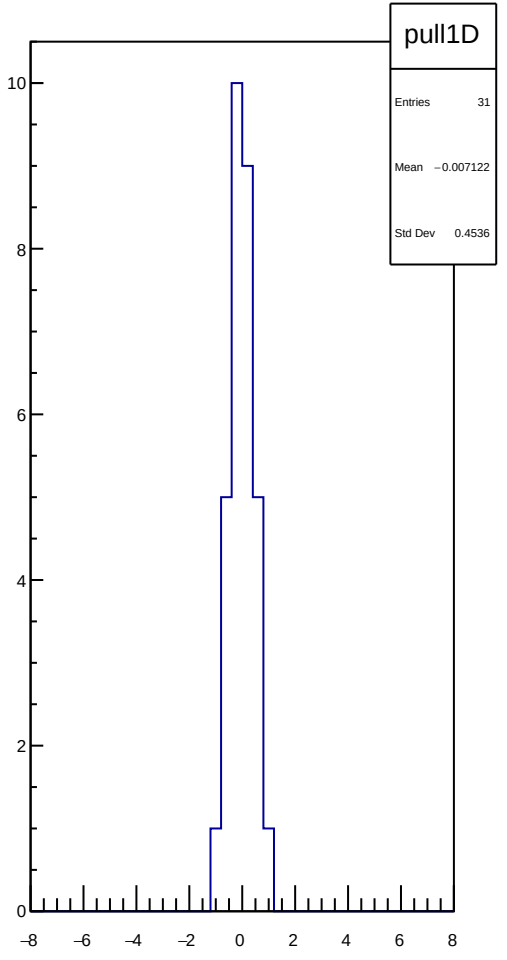

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 12.35 / 30
p0 294 ± 10.6
450
400
350
300
250
200
150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −77.74
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

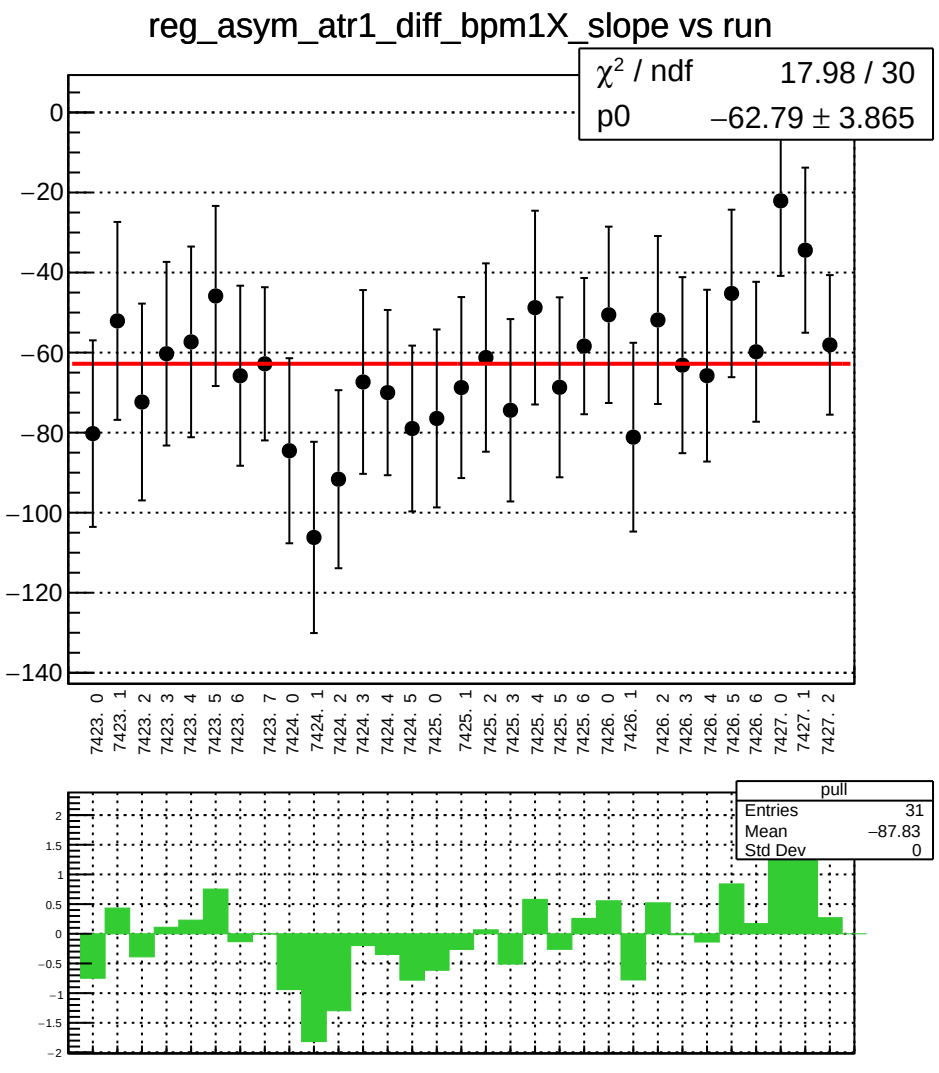

pull1D
Entries 31
Mean 0.0315
Std Dev 0.6303
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

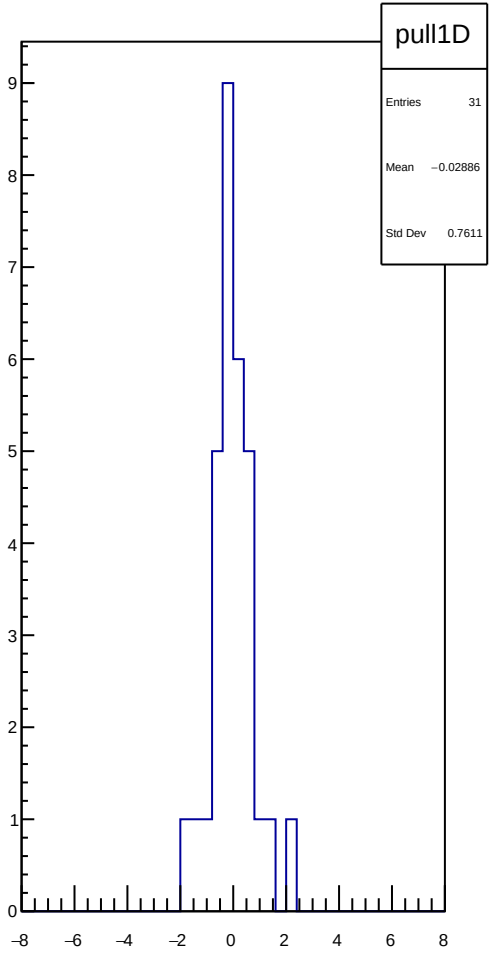

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 3.585 / 30
p0 126.1 ± 10.39
250
200
150
100
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 94.23
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

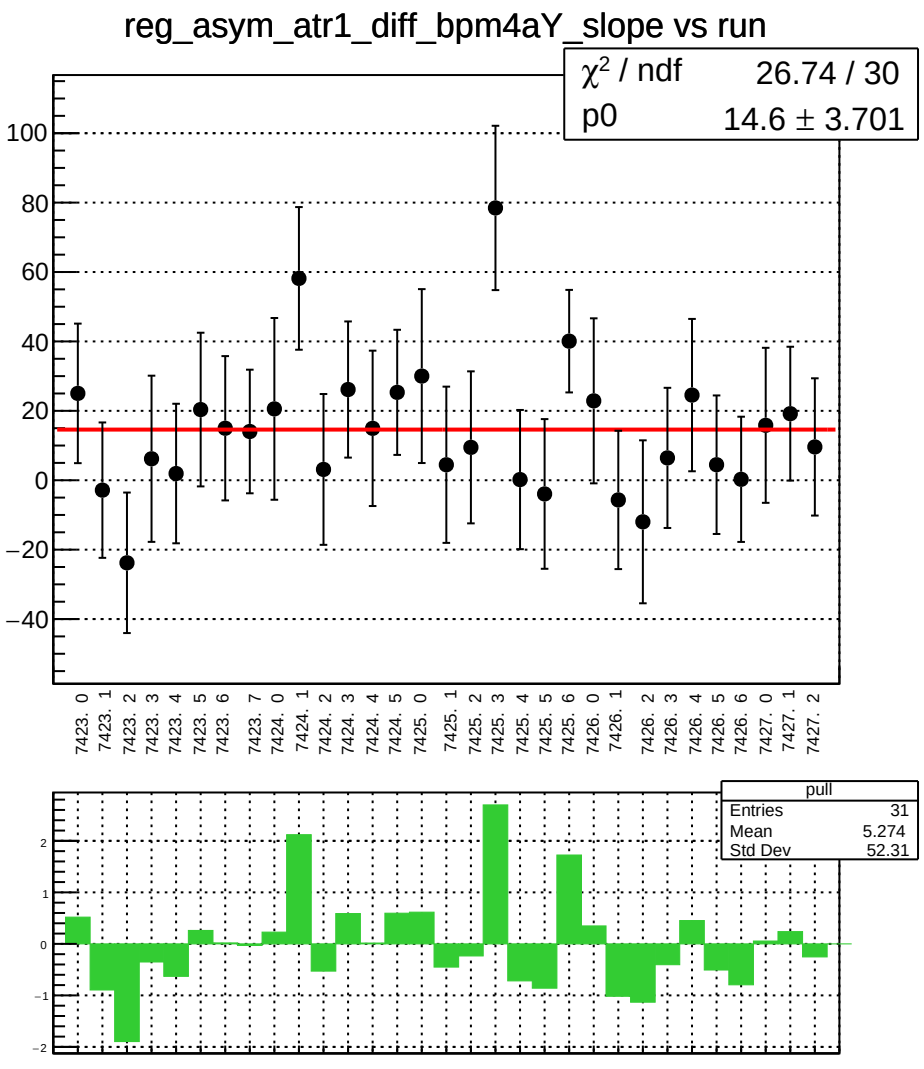

pull1D
Entries 31
Mean 0.01657
Std Dev 0.3397
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

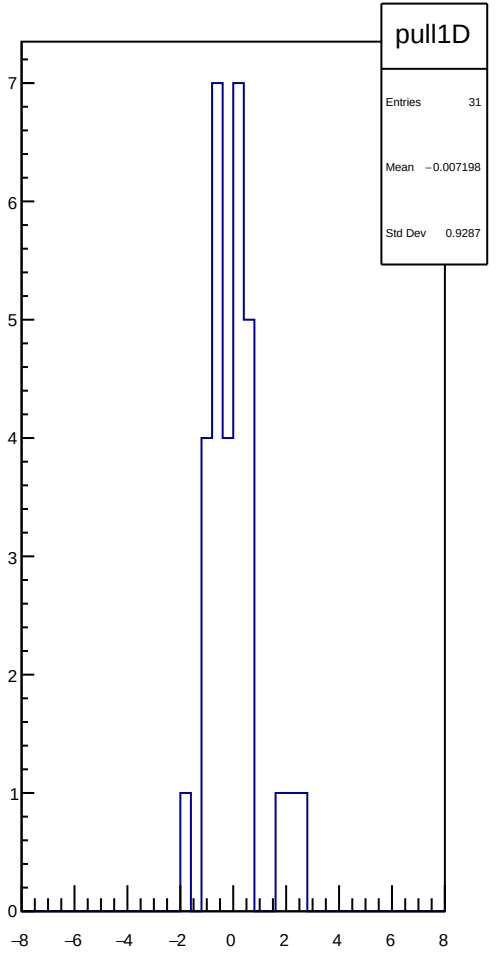

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 6.381 / 30
p0 −223.4 ± 0.4496
−218
−220
−222
−224
−226
−228
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −90.7
Std Dev 0
1
0.5
0
−0.5
−1

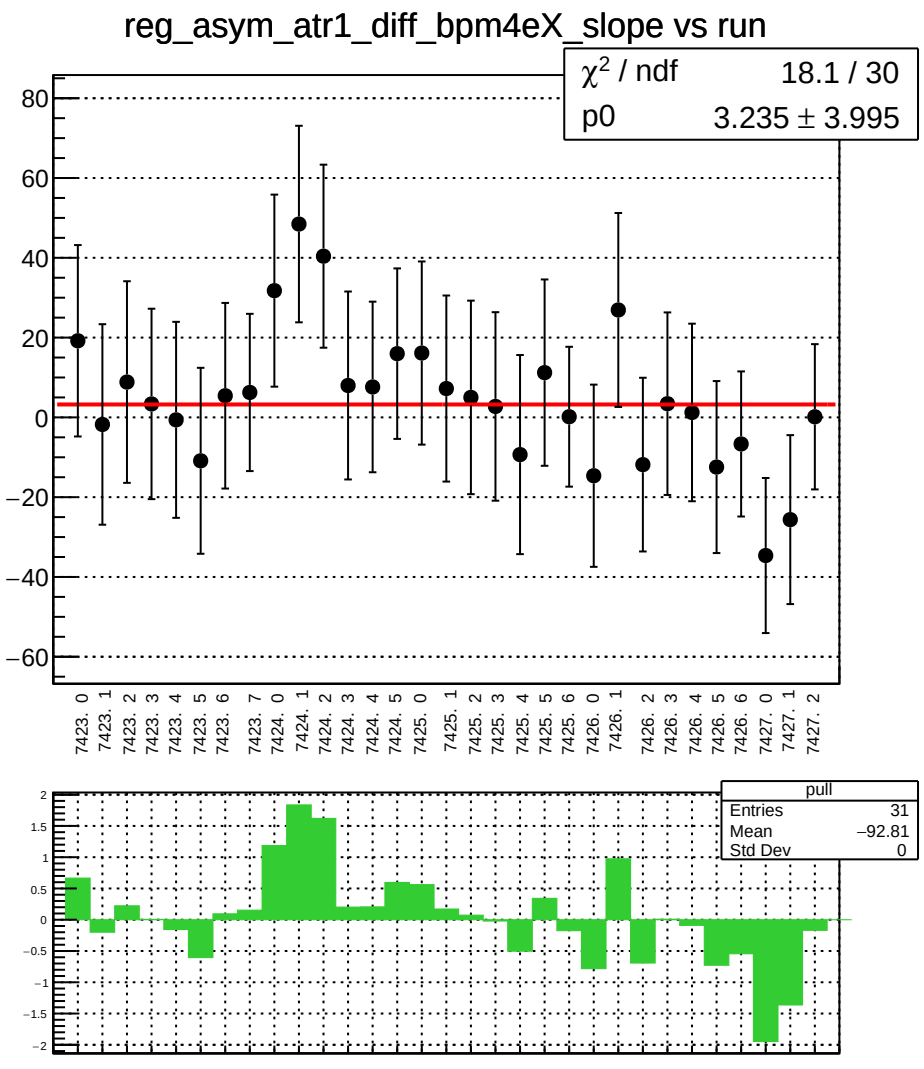

pull1D
Entries 31
Mean −0.007122
Std Dev 0.4536
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

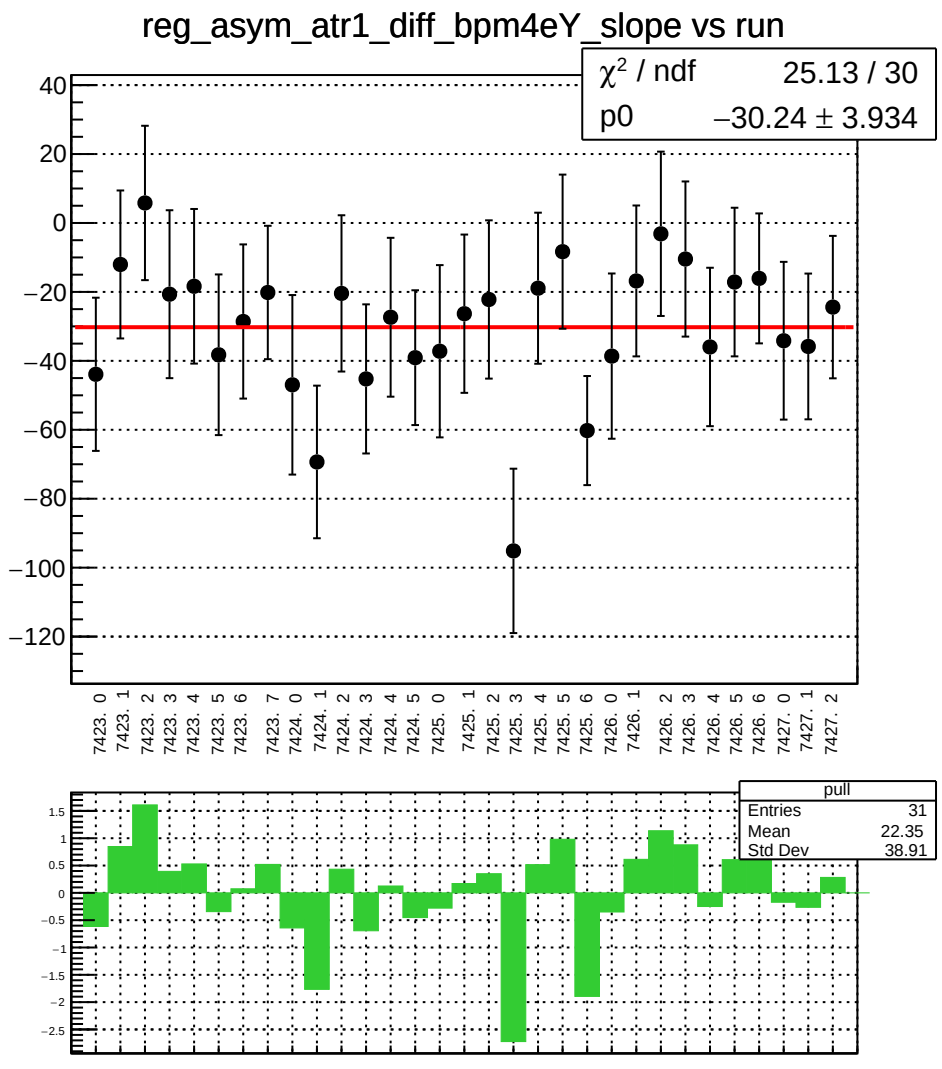

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 17.98 / 30
p0 −62.79 ± 3.865
0
−20
−40
−60
−80
−100
−120
−140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −87.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

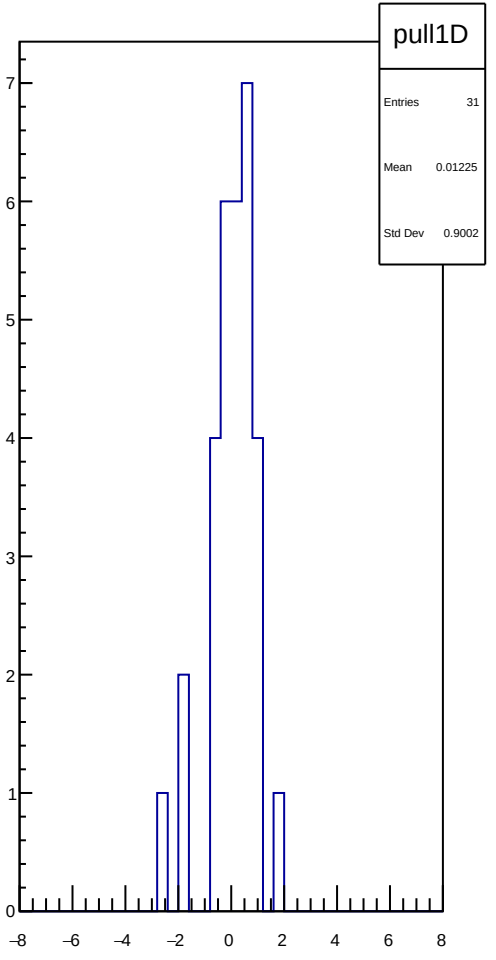

pull1D
Entries 31
Mean −0.02886
Std Dev 0.7611
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

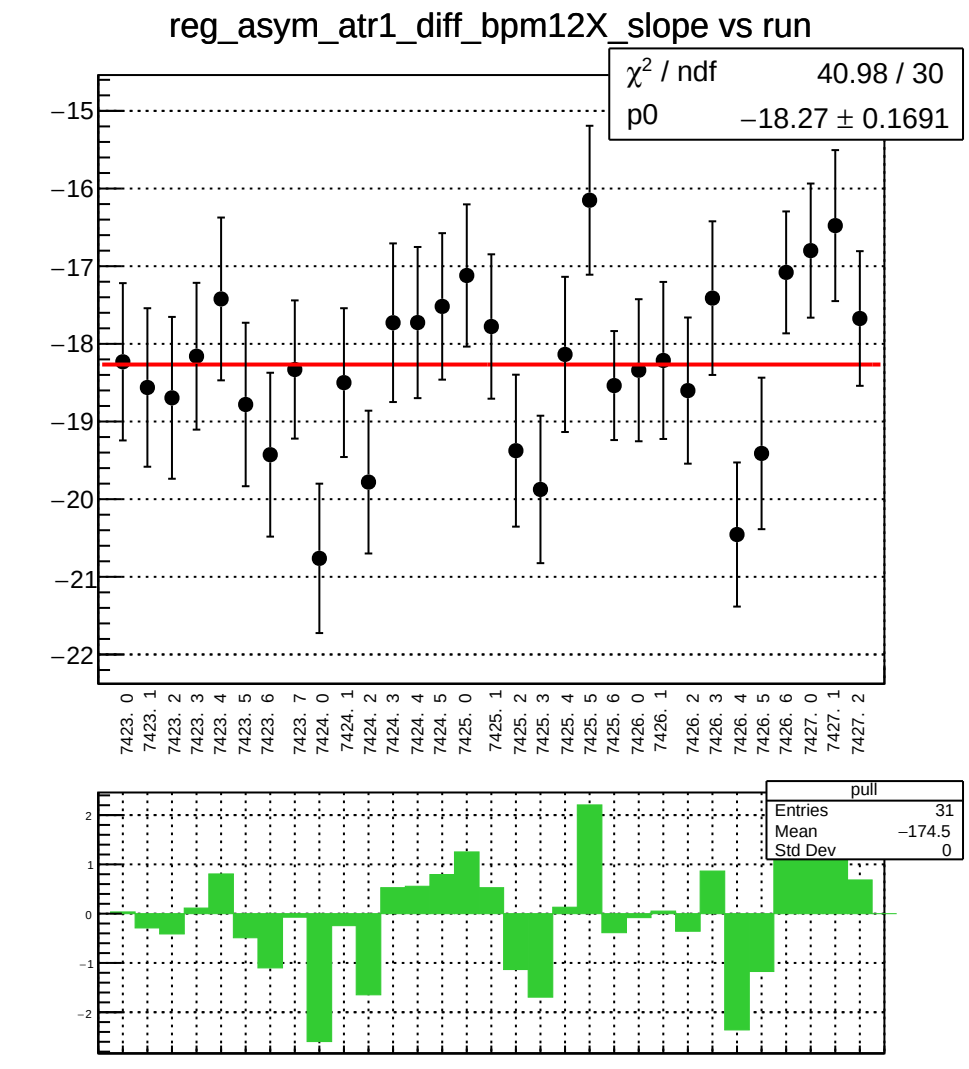

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 26.74 / 30
p0 14.6 ± 3.701
100
80
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 5.274
Std Dev 52.31
2
1
0
−1
−2

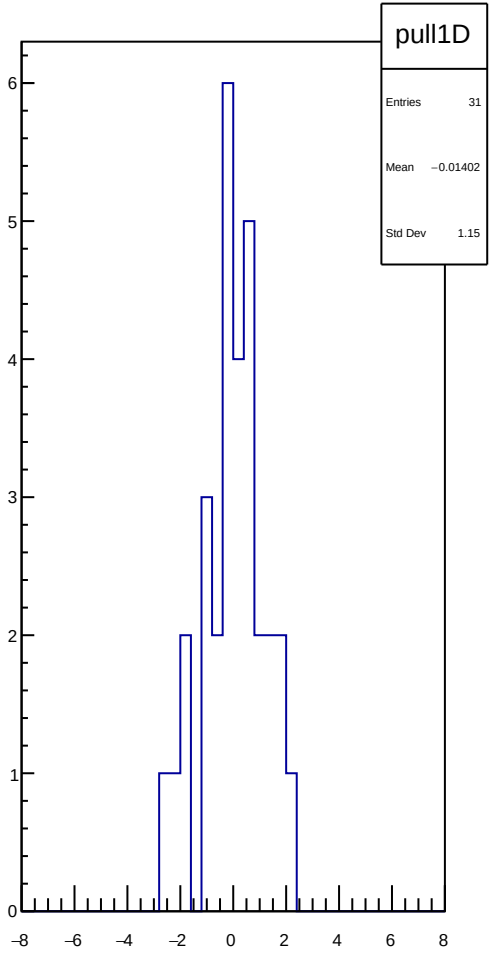

pull1D
Entries 31
Mean −0.007198
Std Dev 0.9287
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

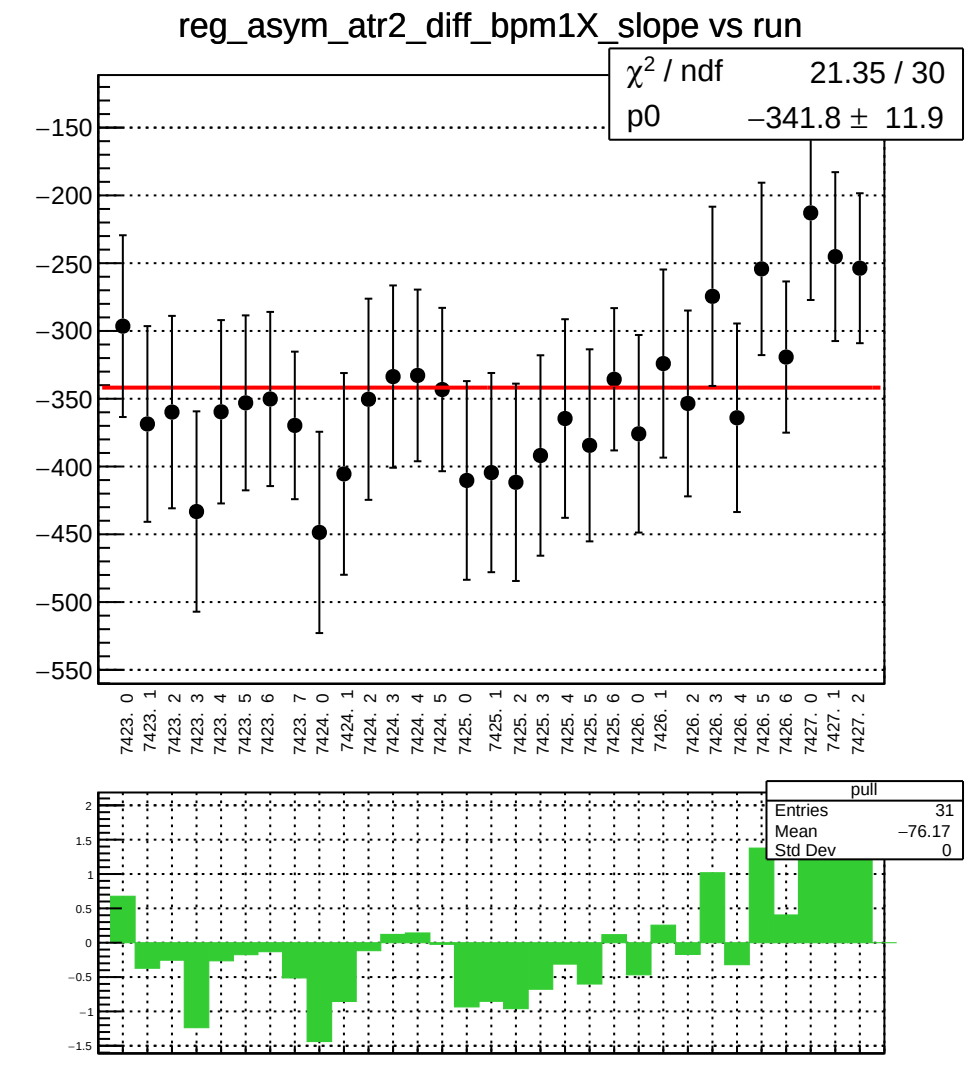

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 18.1 / 30
p0 3.235 ± 3.995
80
60
40
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −92.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.0303
Std Dev 0.7636
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

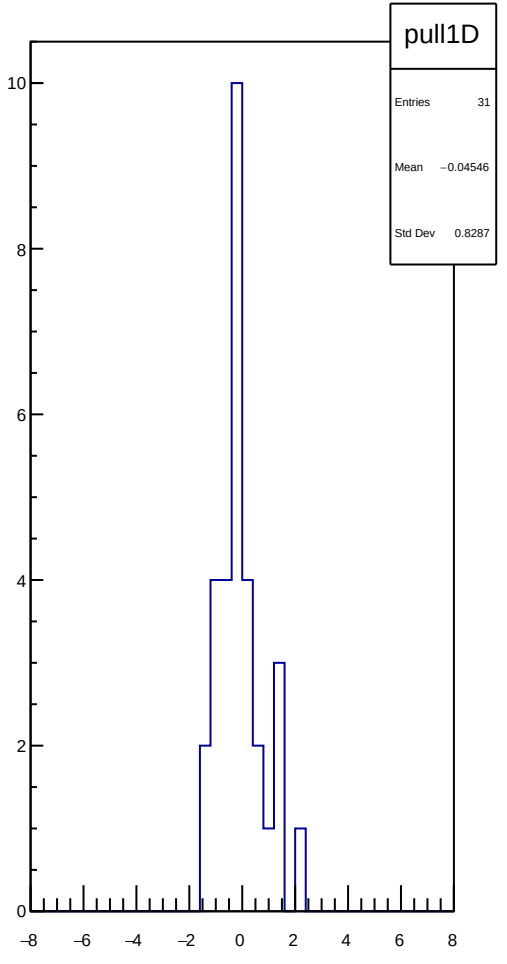

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 25.13 / 30
p0 −30.24 ± 3.934
40
20
0
−20
−40
−60
−80
−100
−120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 22.35
Std Dev 38.91
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

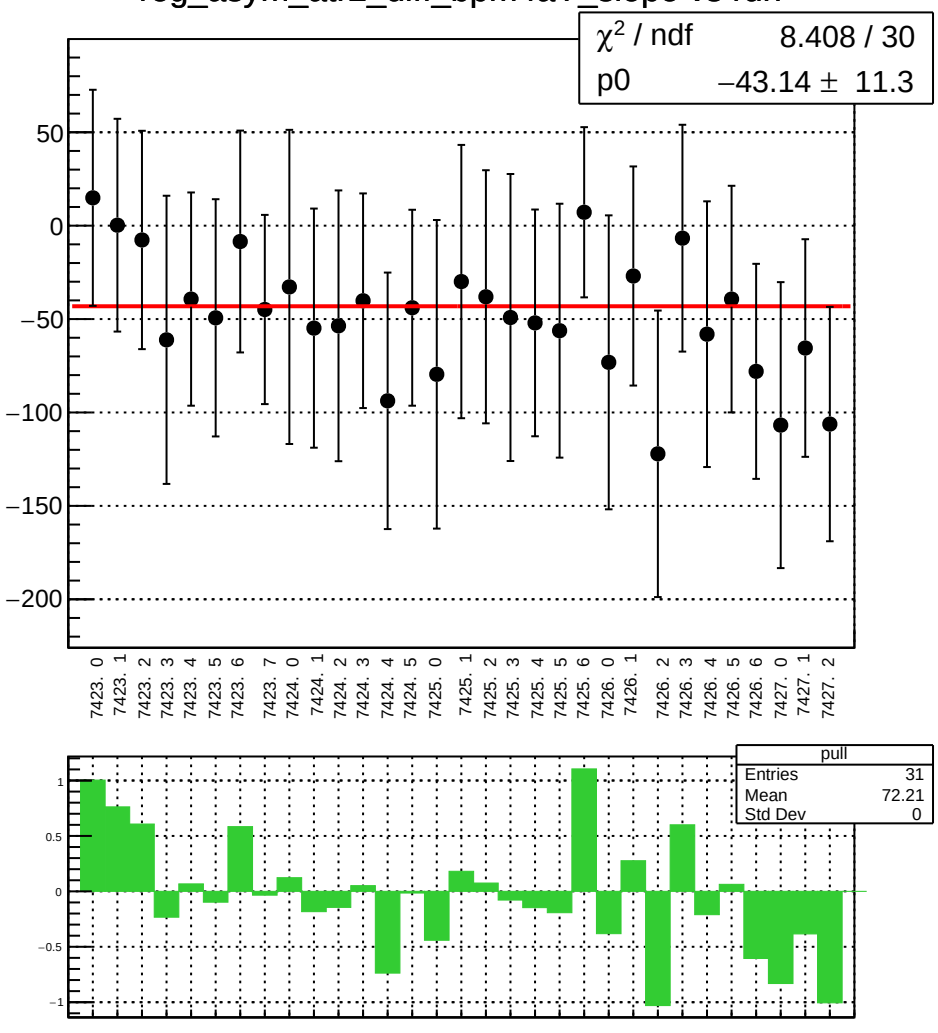

pull1D
Entries 31
Mean 0.01225
Std Dev 0.9002
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

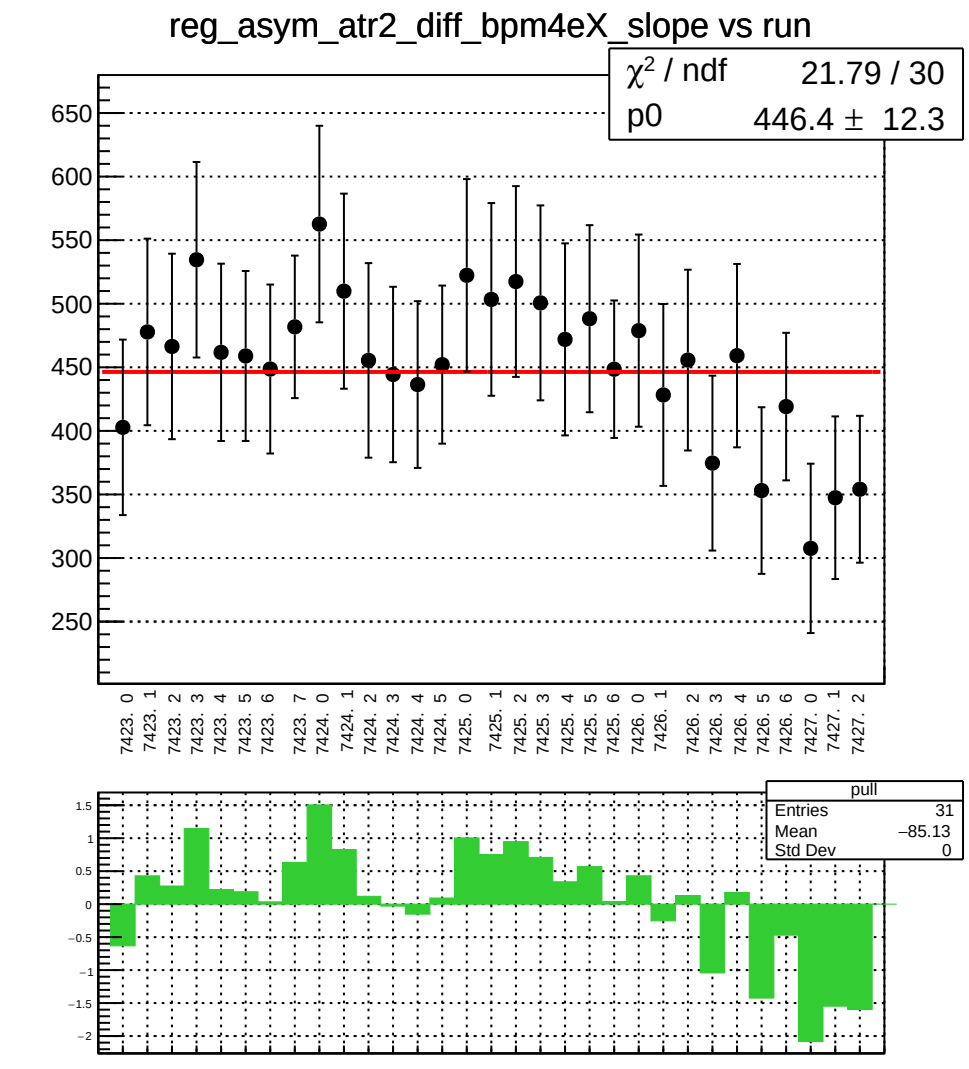

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 40.98 / 30
p0 −18.27 ± 0.1691
−15
−16
−17
−18
−19
−20
−21
−22
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −174.5
Std Dev 0
2
1
0
−1
−2

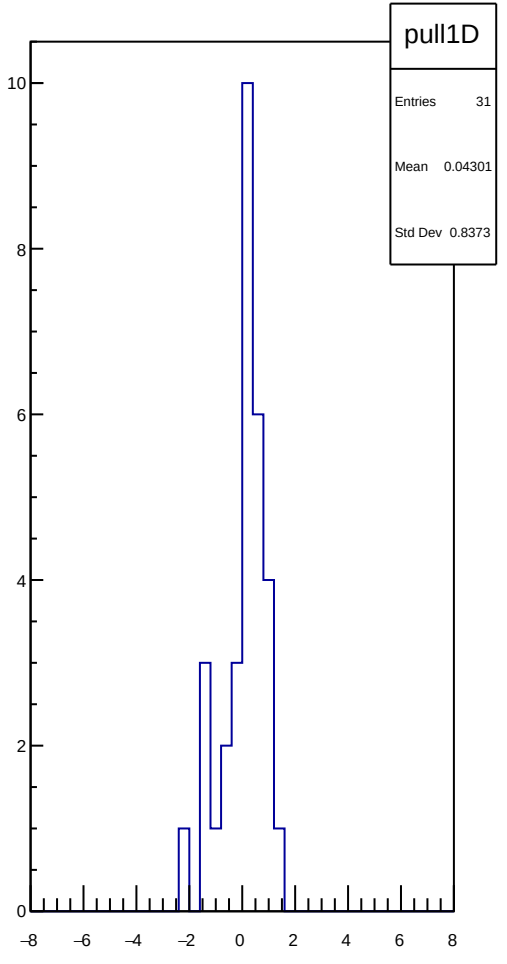

pull1D
Entries 31
Mean −0.01402
Std Dev 1.15
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

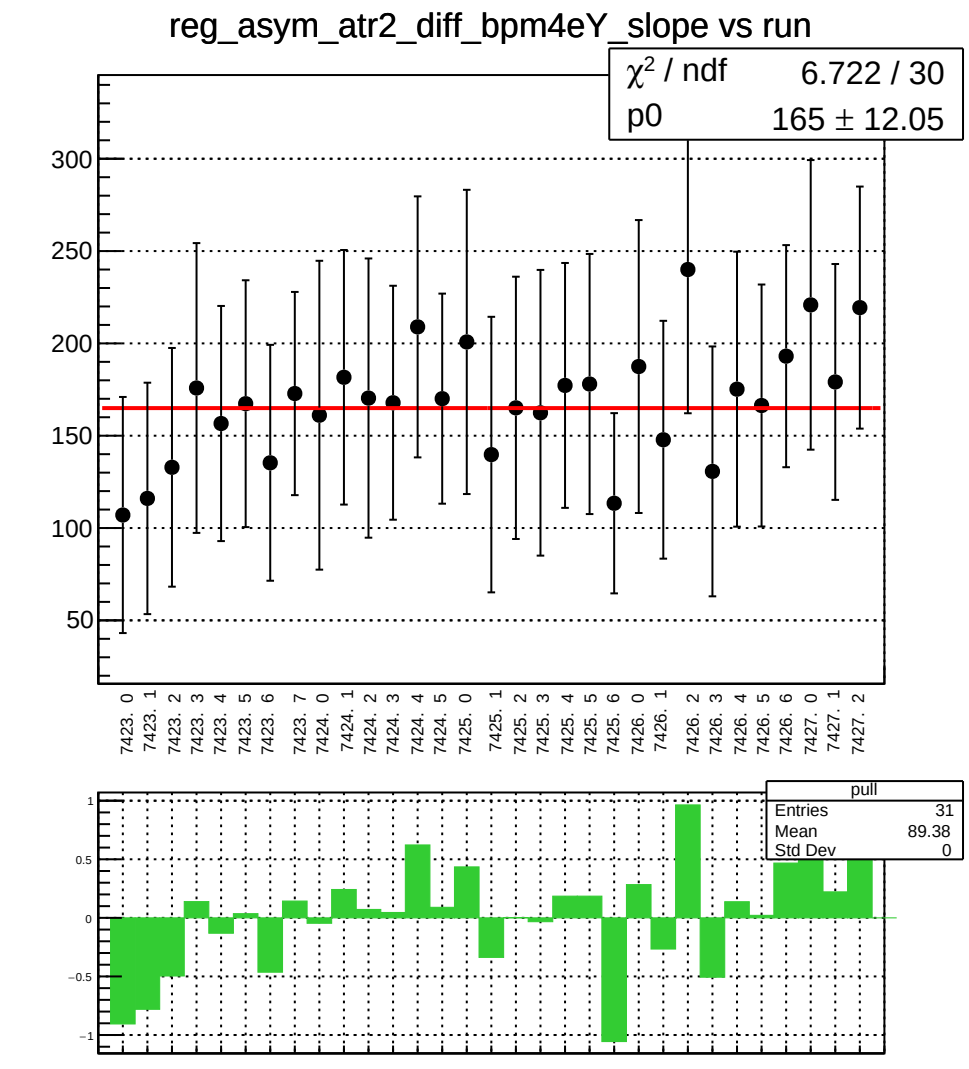

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 21.35 / 30
p0 −341.8 ± 11.9
−150
−200
−250
−300
−350
−400
−450
−500
−550
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −76.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

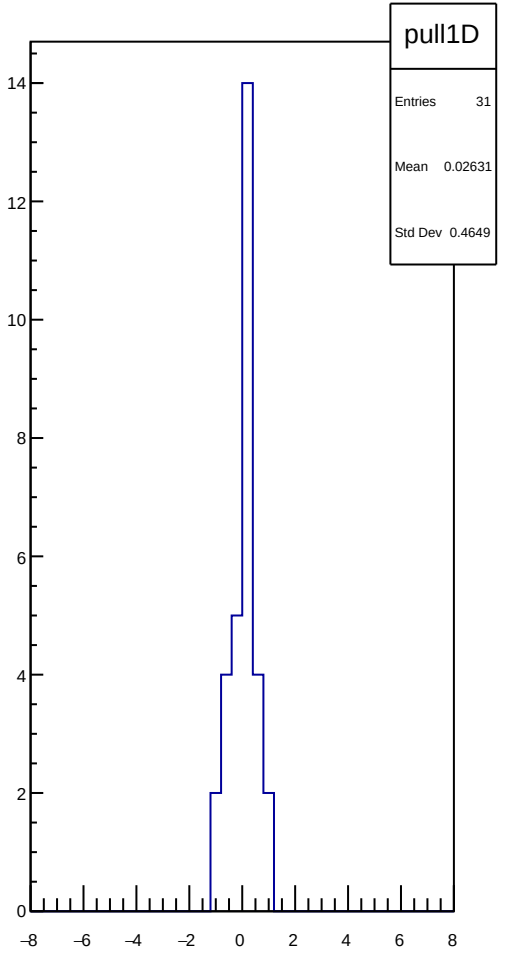

pull1D
Entries 31
Mean −0.04546
Std Dev 0.8287
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

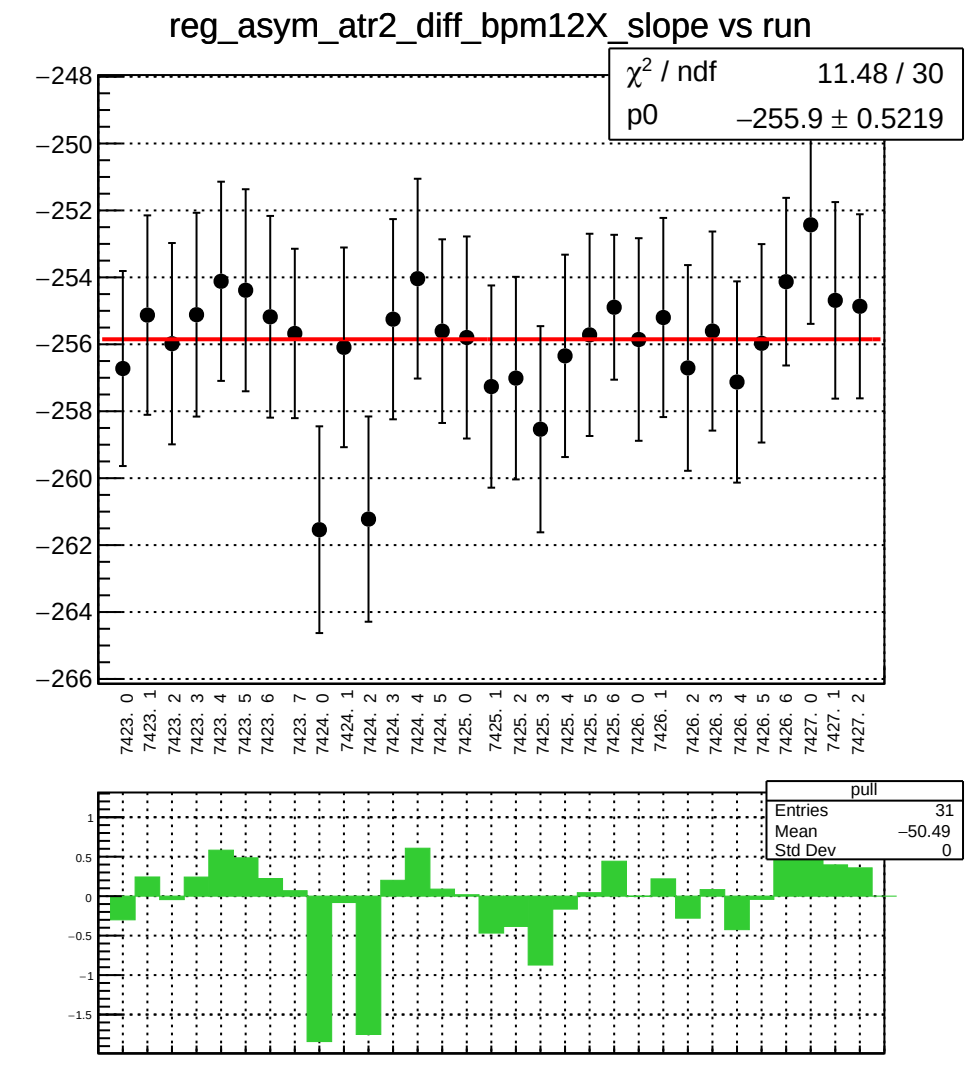

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 8.408 / 30
p0 −43.14 ± 11.3
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 72.21
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.0404
Std Dev 0.5192
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

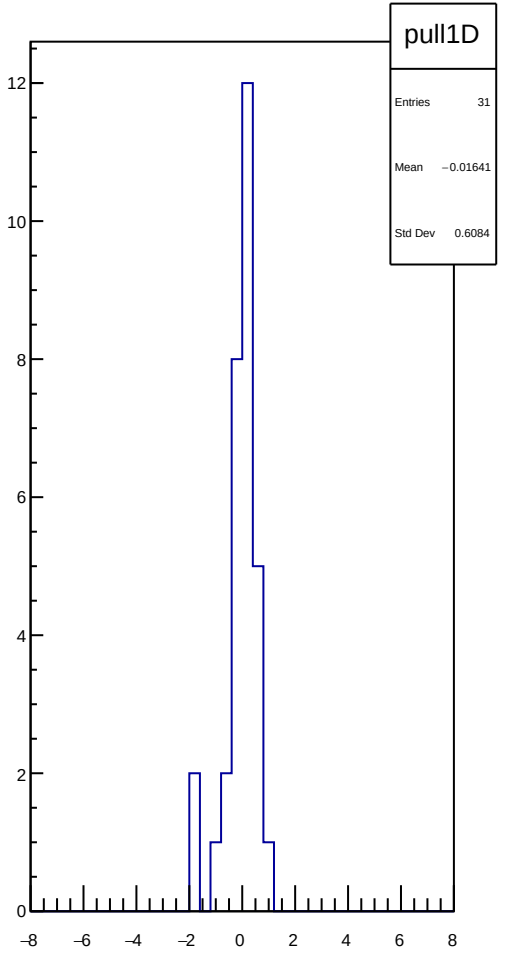

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 21.79 / 30
p0 446.4 ± 12.3
650
600
550
500
450
400
350
300
250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −85.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

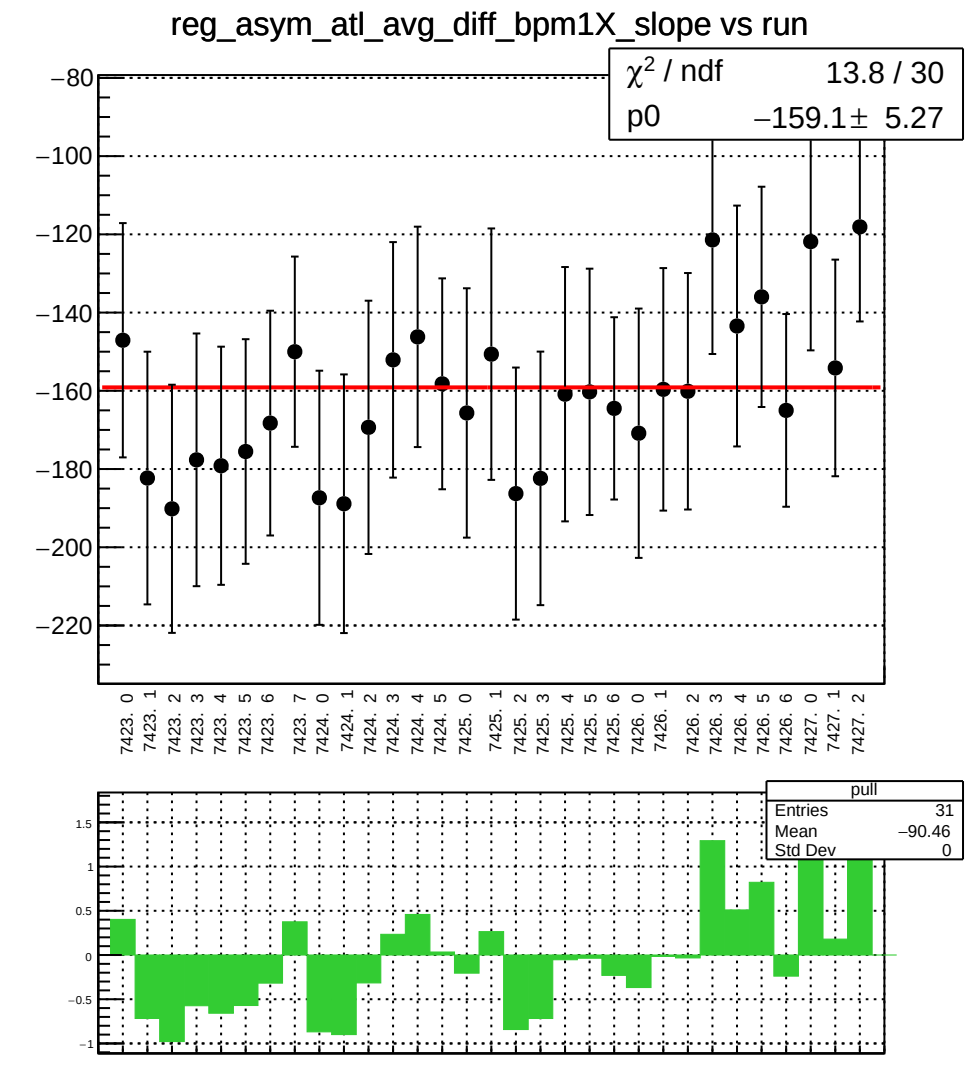

pull1D
Entries 31
Mean 0.04301
Std Dev 0.8373
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

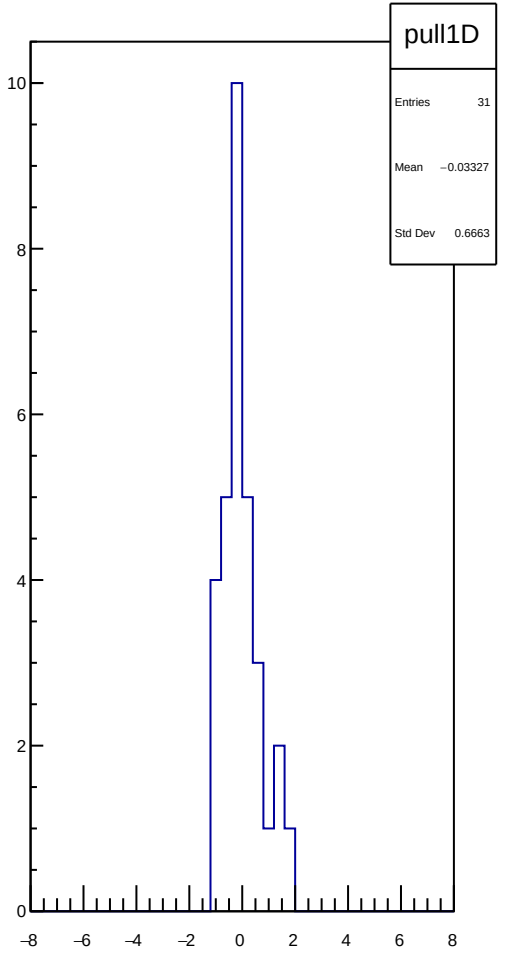

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 6.722 / 30
p0 165 ± 12.05
300
250
200
150
100
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 89.38
Std Dev 0
1
0.5
0
−0.5
−1

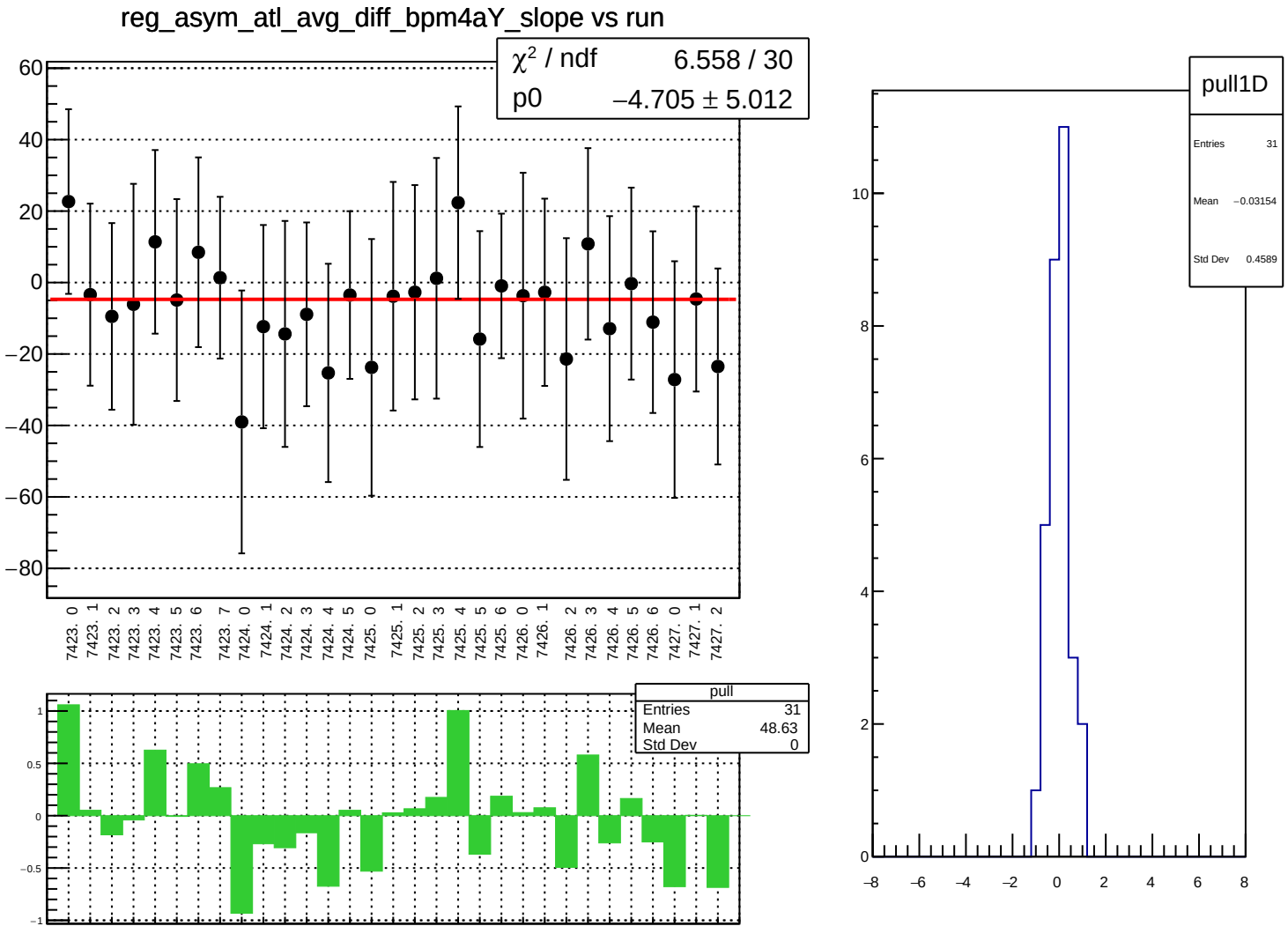

pull1D
Entries 31
Mean 0.02631
Std Dev 0.4649
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

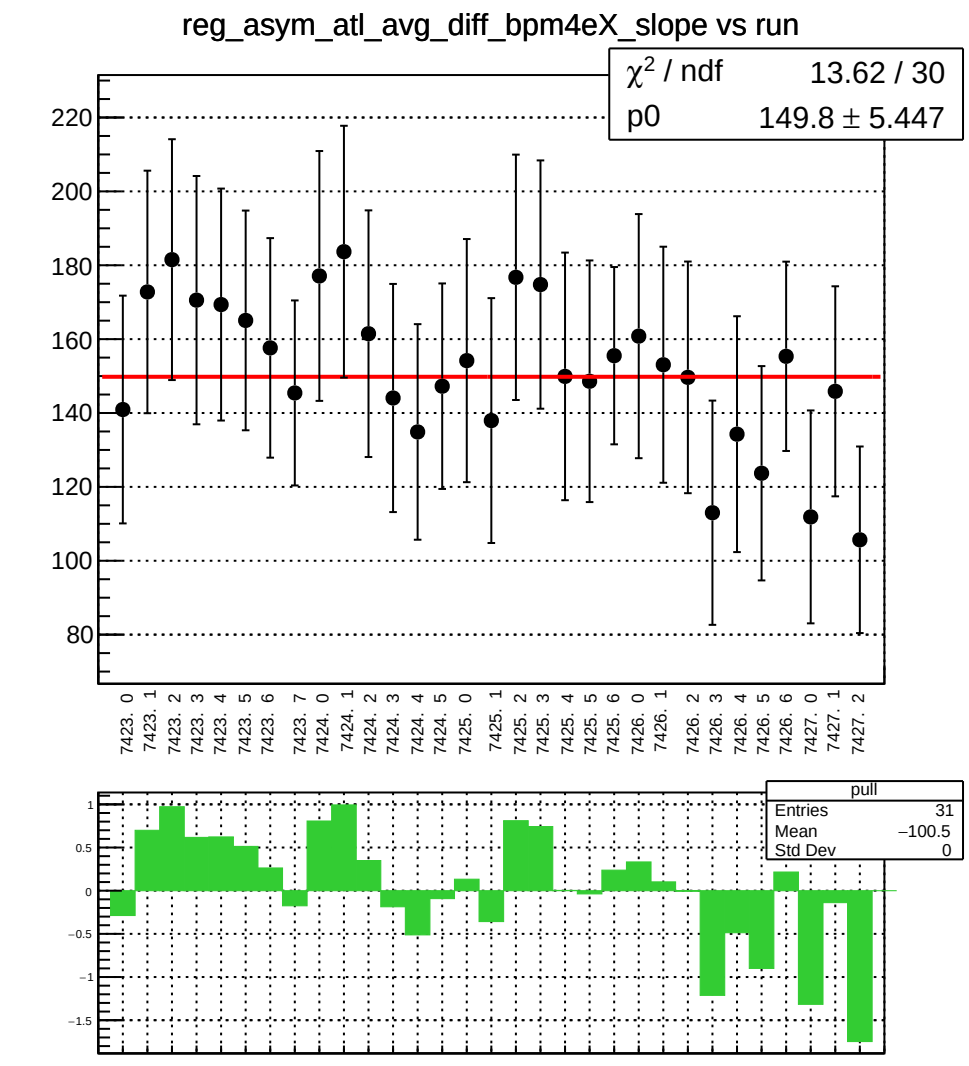

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 11.48 / 30
p0 −255.9 ± 0.5219
−248
−250
−252
−254
−256
−258
−260
−262
−264
−266
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −50.49
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

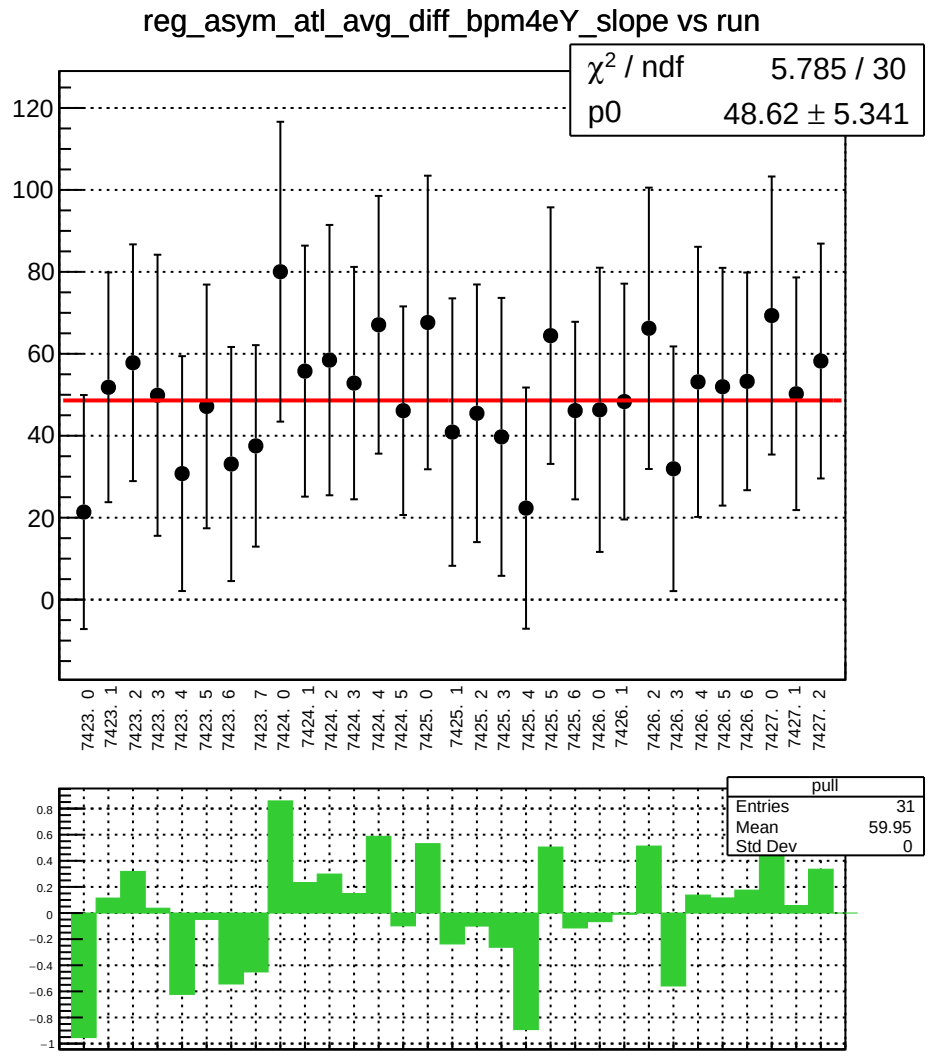

pull1D
Entries 31
Mean −0.01641
Std Dev 0.6084
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

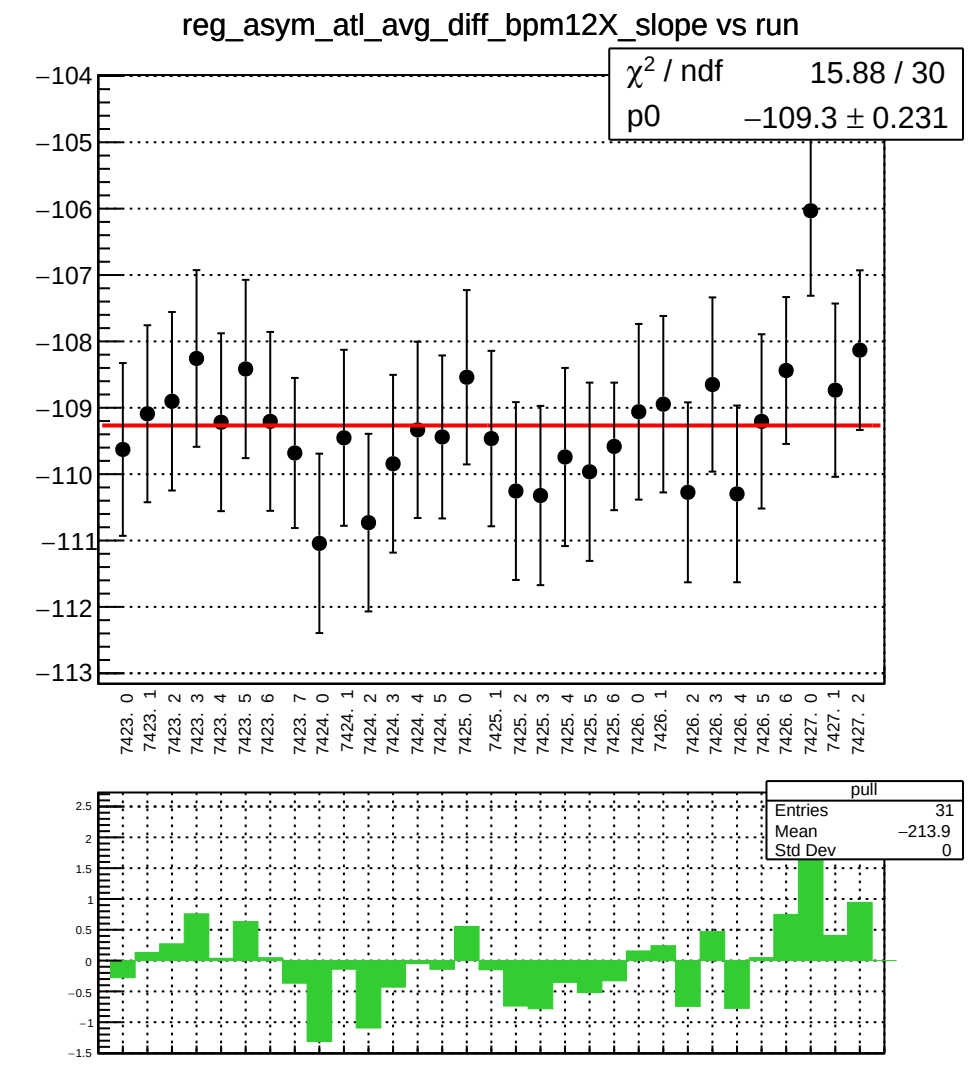

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 13.8 / 30
p0 −159.1± 5.27
−80
−100
−120
−140
−160
−180
−200
−220
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −90.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1

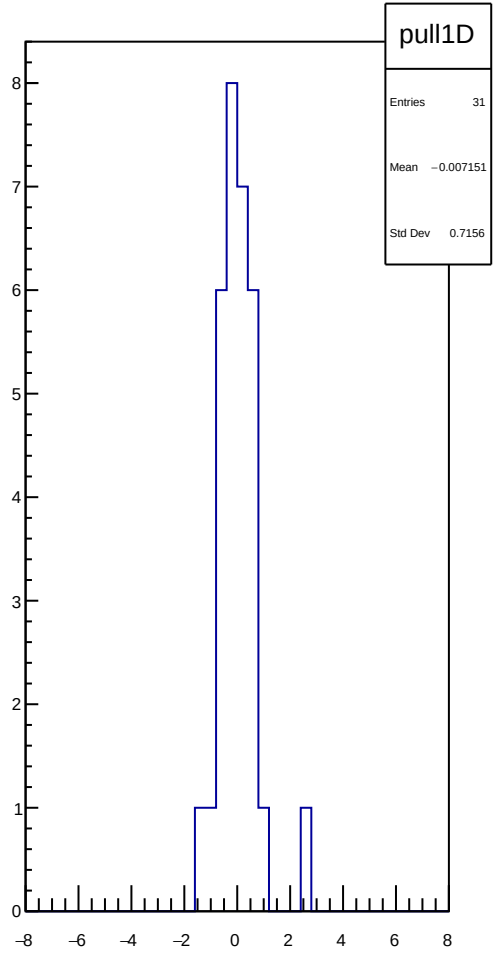

pull1D
Entries 31
Mean −0.03327
Std Dev 0.6663
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

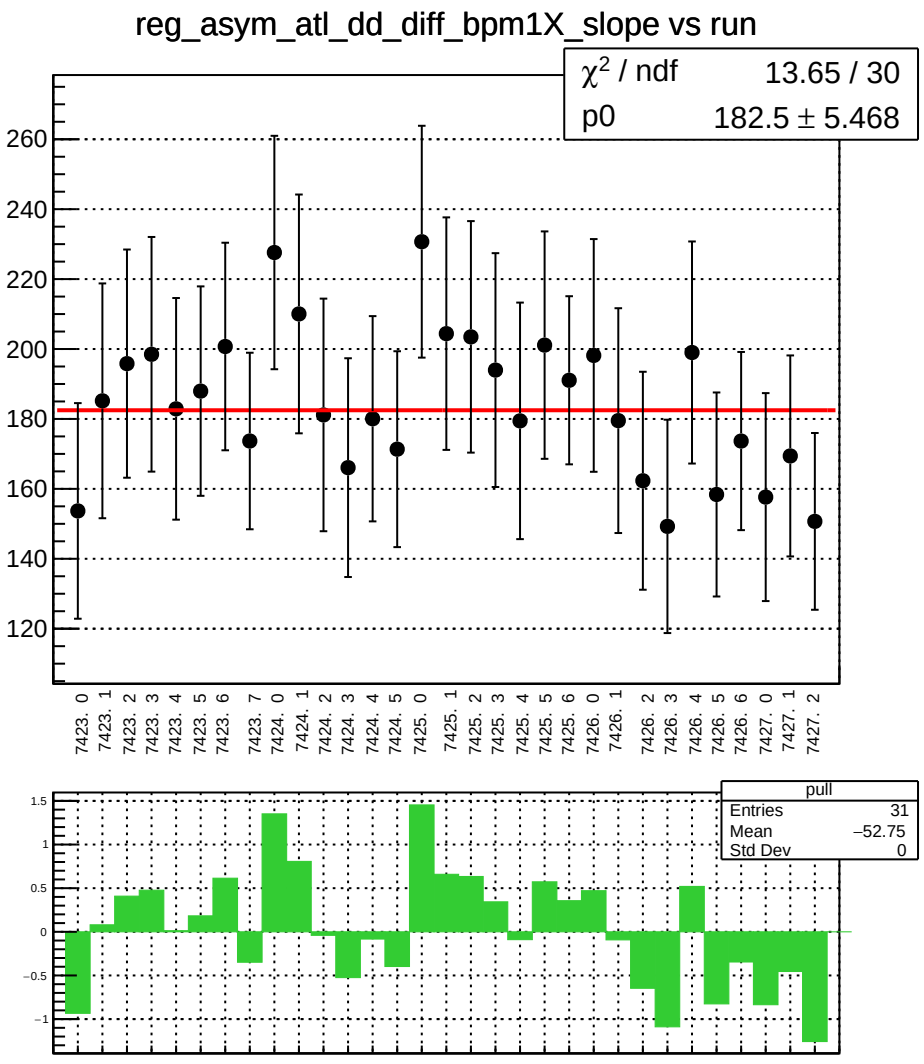

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.558 / 30
p0 −4.705 ± 5.012
60
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 48.63
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.03154
Std Dev 0.4589
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

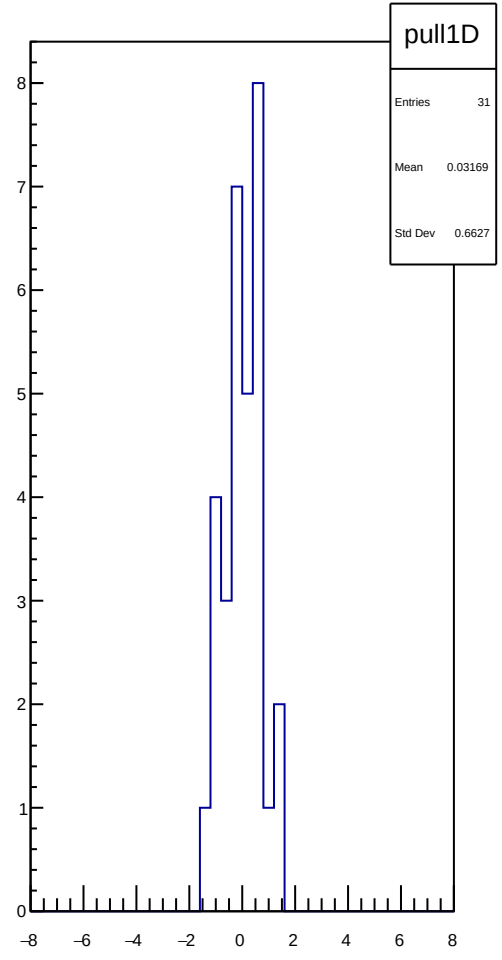

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.62 / 30
p0 149.8 ± 5.447
220
200
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −100.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.03111
Std Dev 0.6621
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

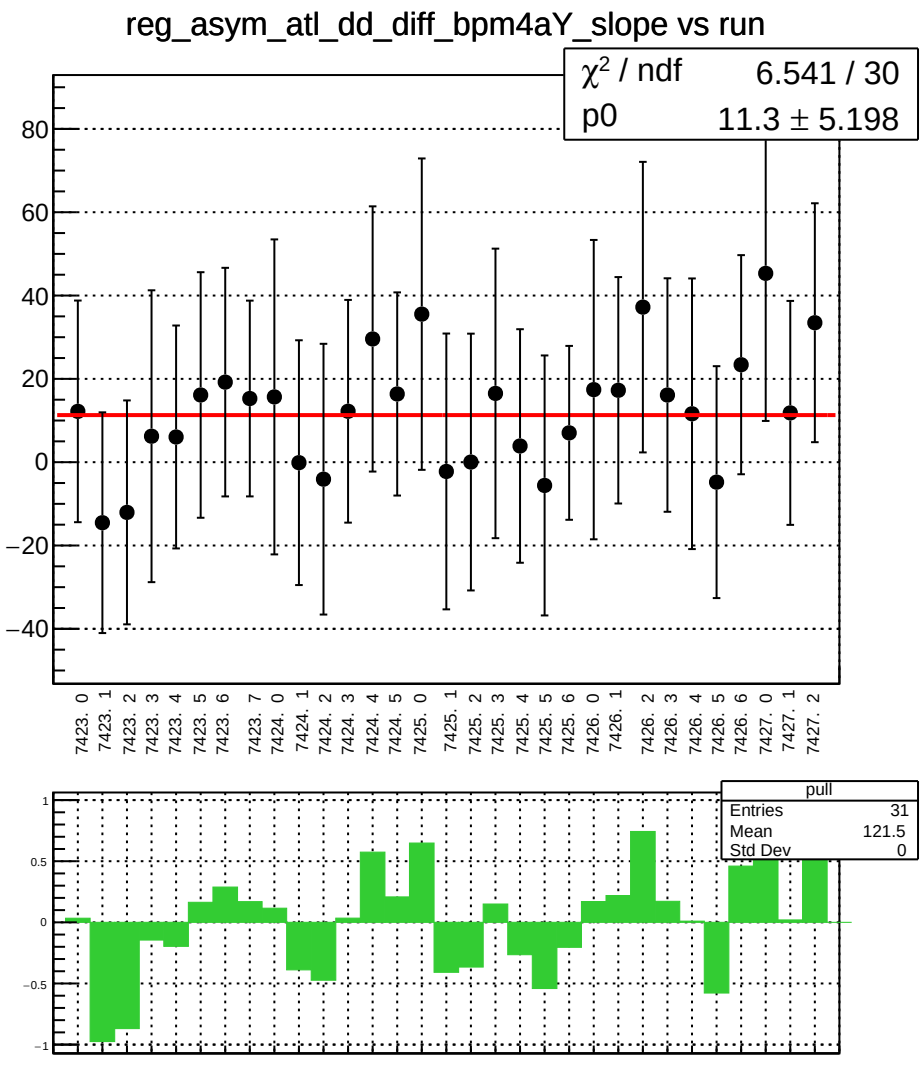

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.785 / 30
p0 48.62 ± 5.341
120
100
80
60
40
20
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 59.95
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 31
Mean 0.02007
Std Dev 0.4315
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

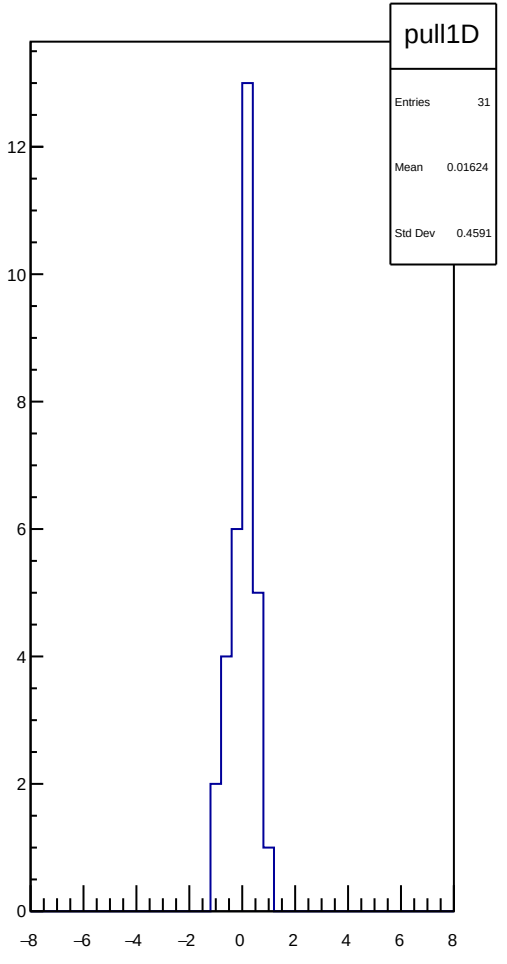

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 15.88 / 30
p0 −109.3 ± 0.231
pull
Entries 31
Mean −213.9
Std Dev 0

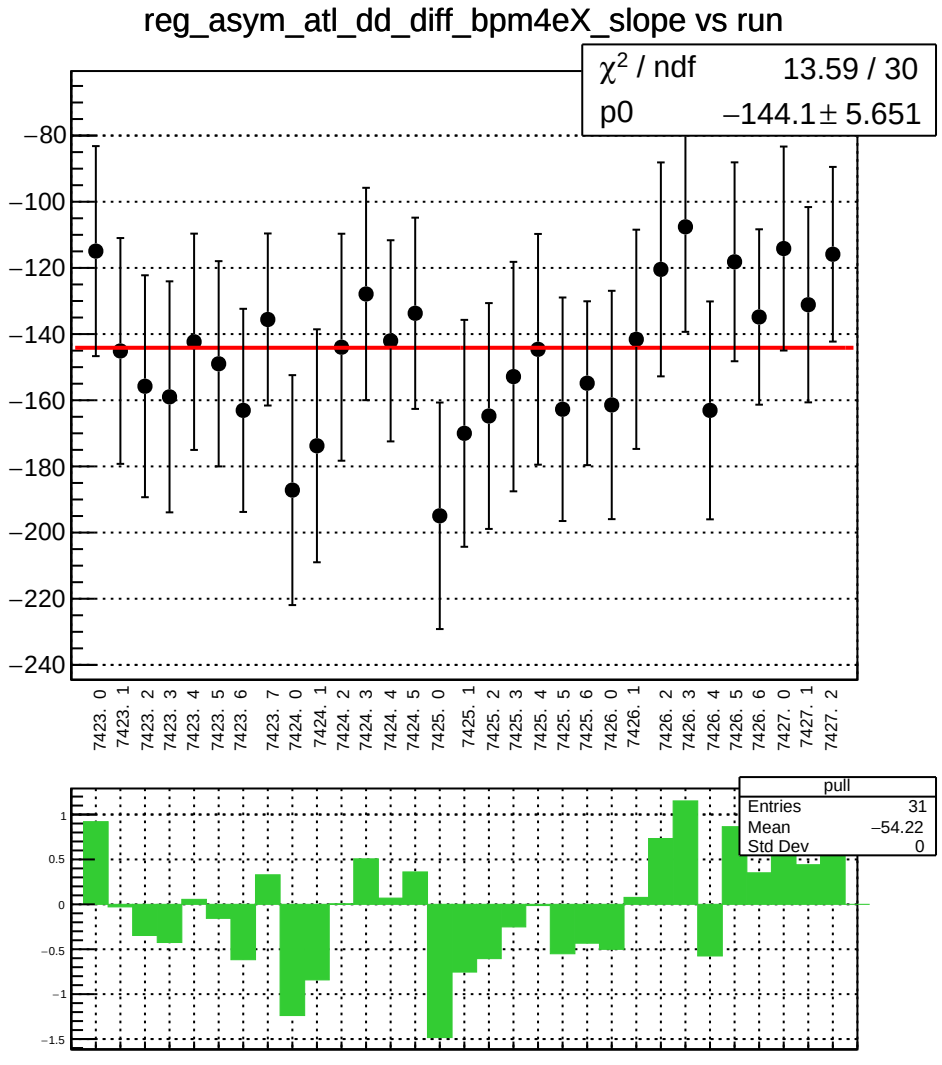

pull1D
Entries 31
Mean −0.007151
Std Dev 0.7156

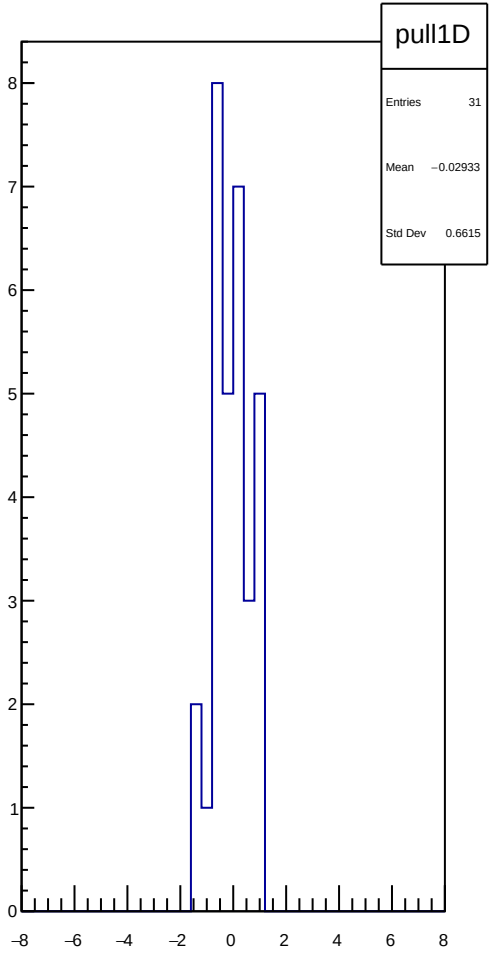

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 13.65 / 30
p0 182.5 ± 5.468
260
240
220
200
180
160
140
120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −52.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1

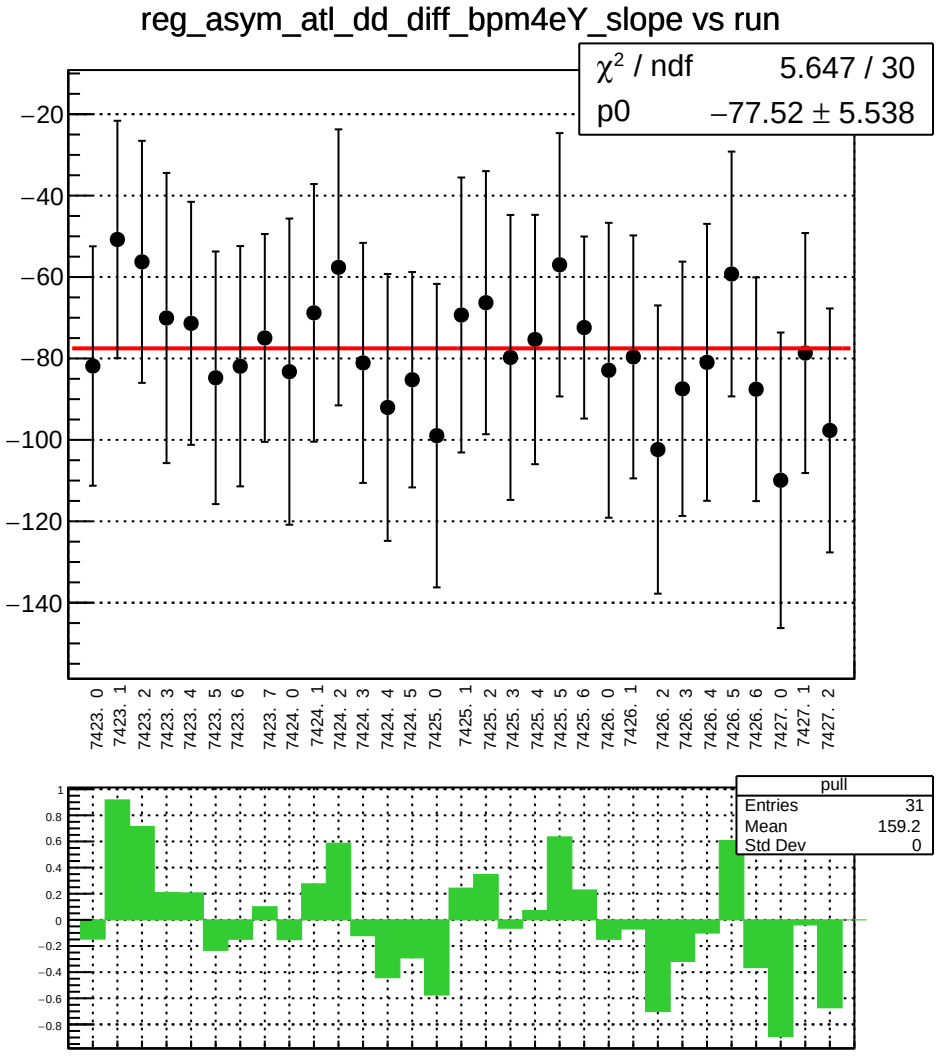

pull1D
Entries 31
Mean 0.03169
Std Dev 0.6627
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

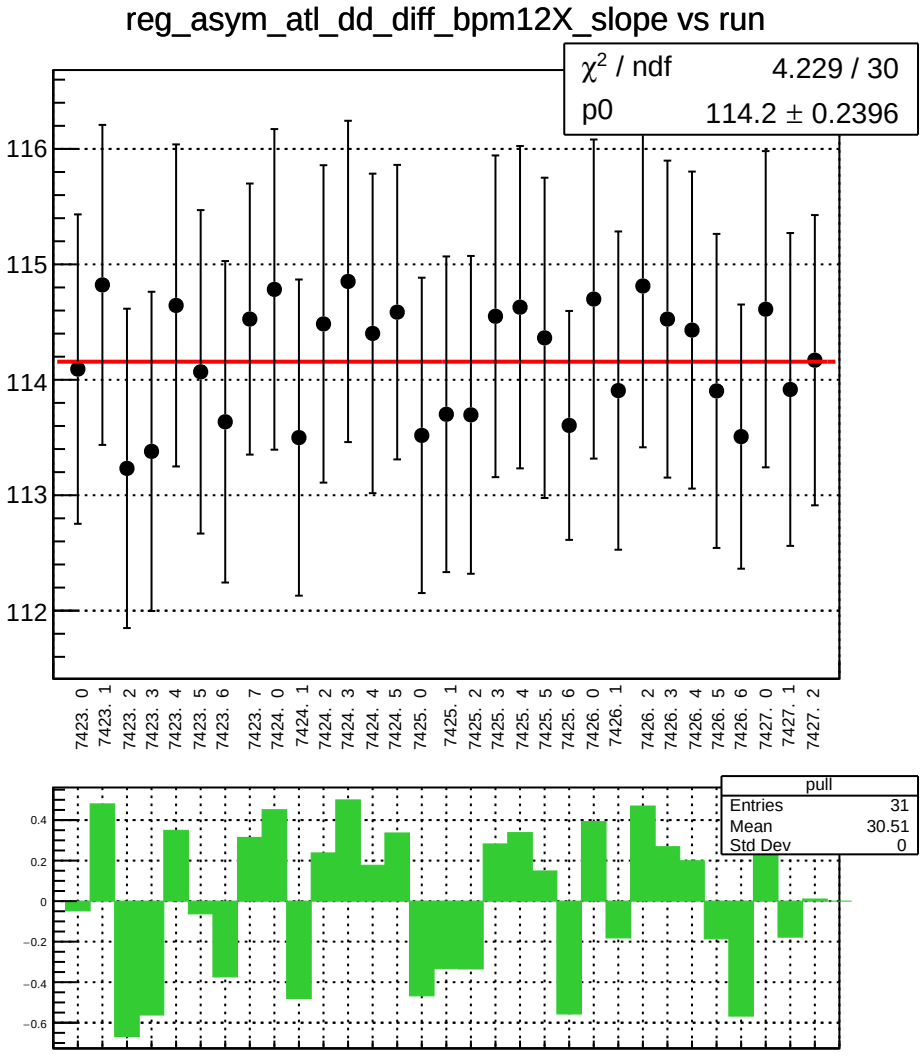

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.541 / 30
p0 11.3 ± 5.198
80
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 121.5
Std Dev 0
1
0.5
0
−0.5
−1

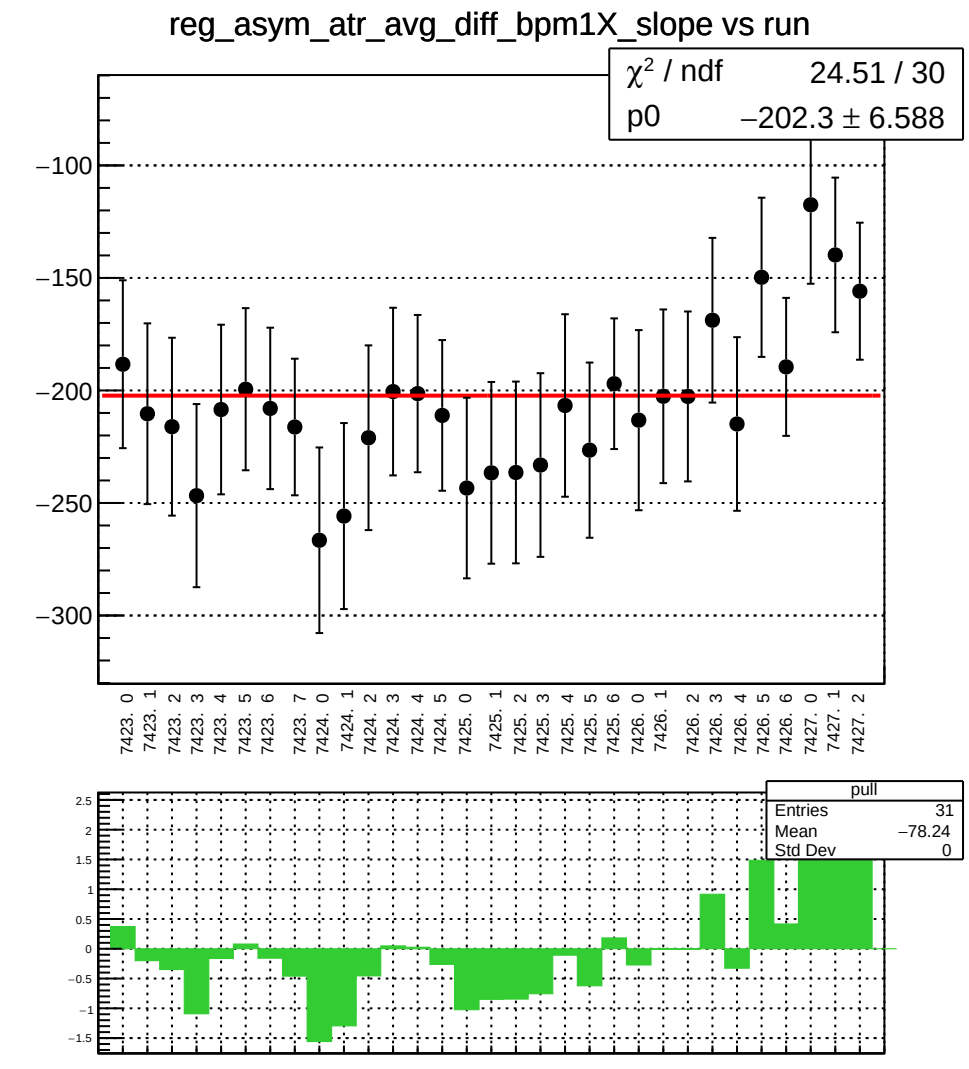

pull1D
Entries 31
Mean 0.01624
Std Dev 0.4591
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

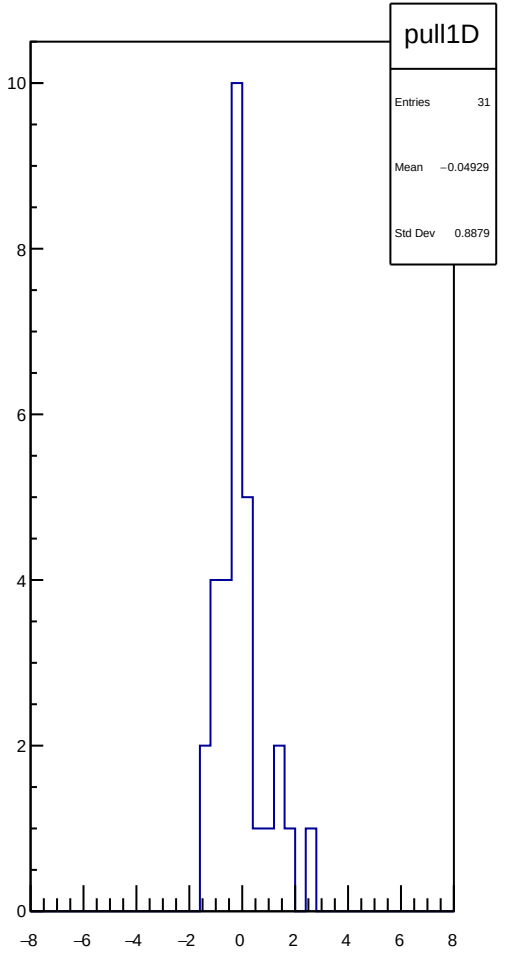

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.59 / 30
p0 −144.1 ± 5.651
−80
−100
−120
−140
−160
−180
−200
−220
−240
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −54.22
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

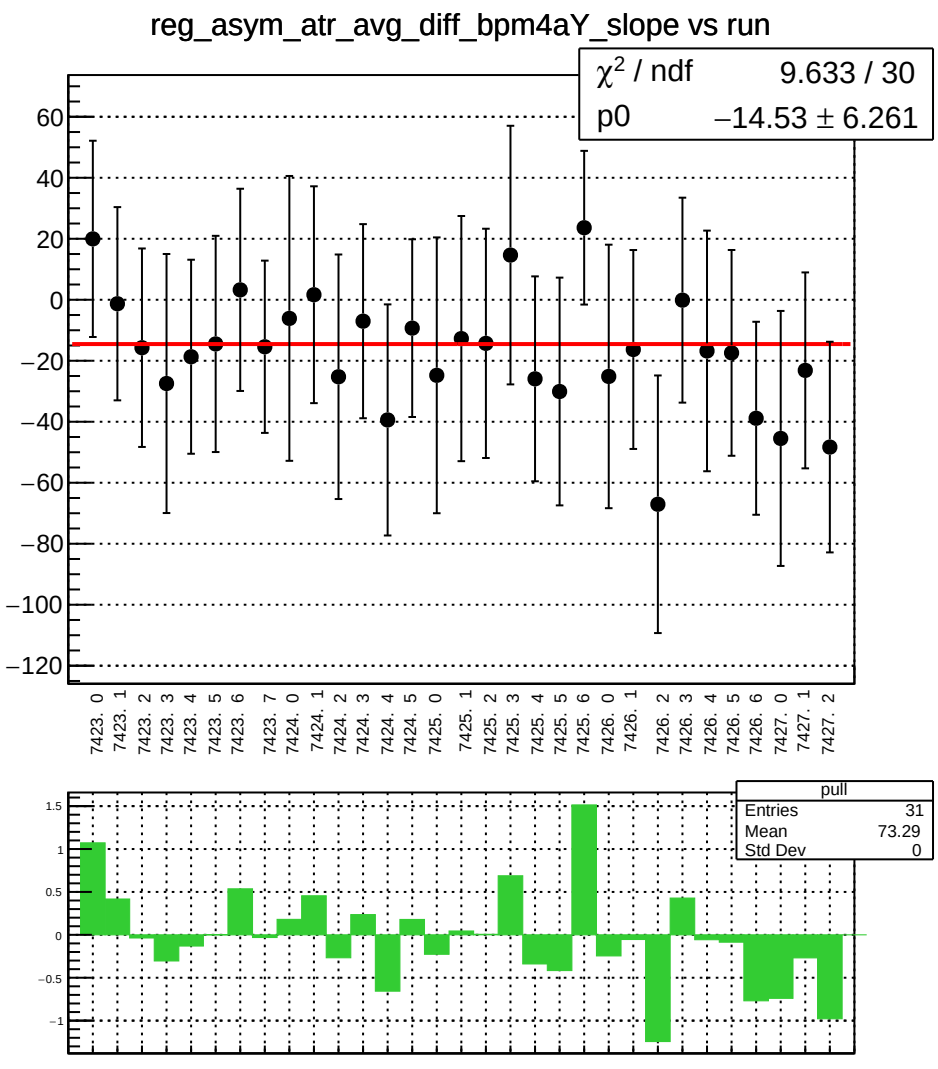

pull1D
Entries 31
Mean −0.02933
Std Dev 0.6615
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

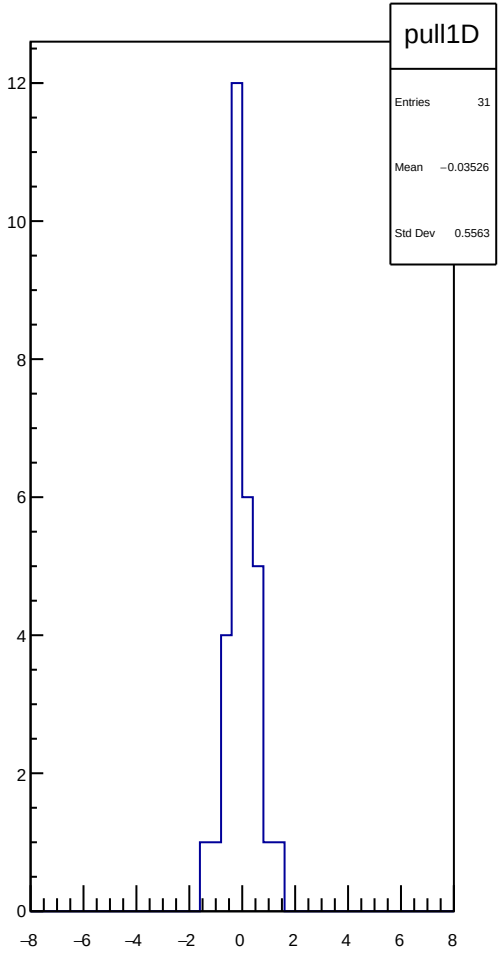

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.647 / 30
p0 −77.52 ± 5.538
−20
−40
−60
−80
−100
−120
−140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 159.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean −0.01102
Std Dev 0.4267
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

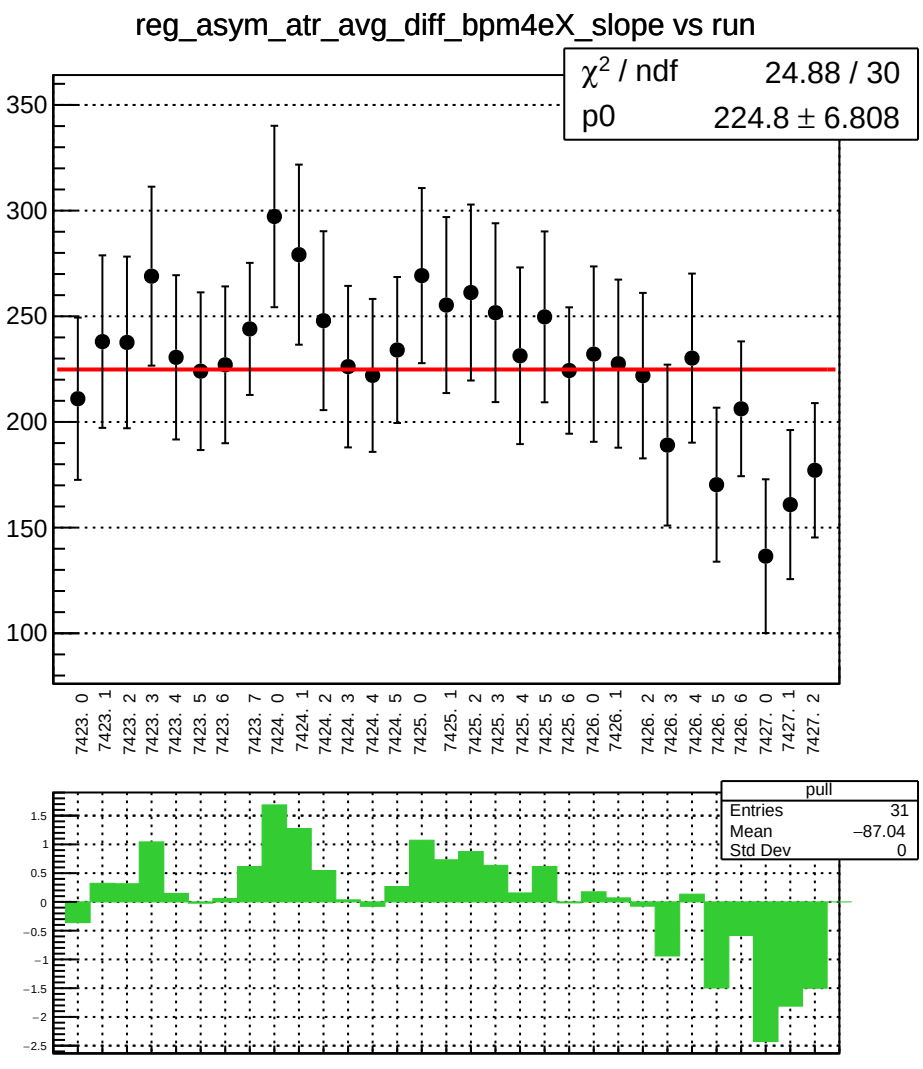

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 4.229 / 30
p0 114.2 ± 0.2396
116
115
114
113
112
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 30.51
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean 0.009231
Std Dev 0.3692
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

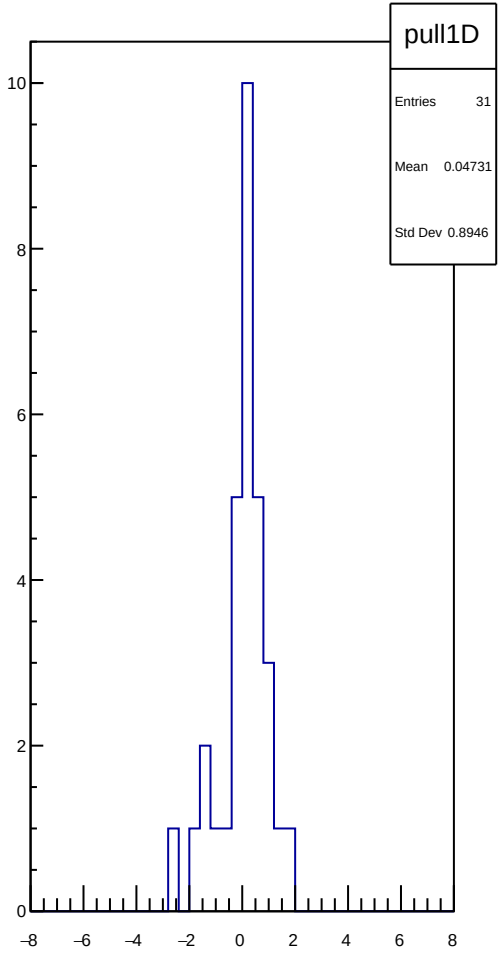

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 24.51 / 30
p0 −202.3 ± 6.588
−100
−150
−200
−250
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −78.24
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

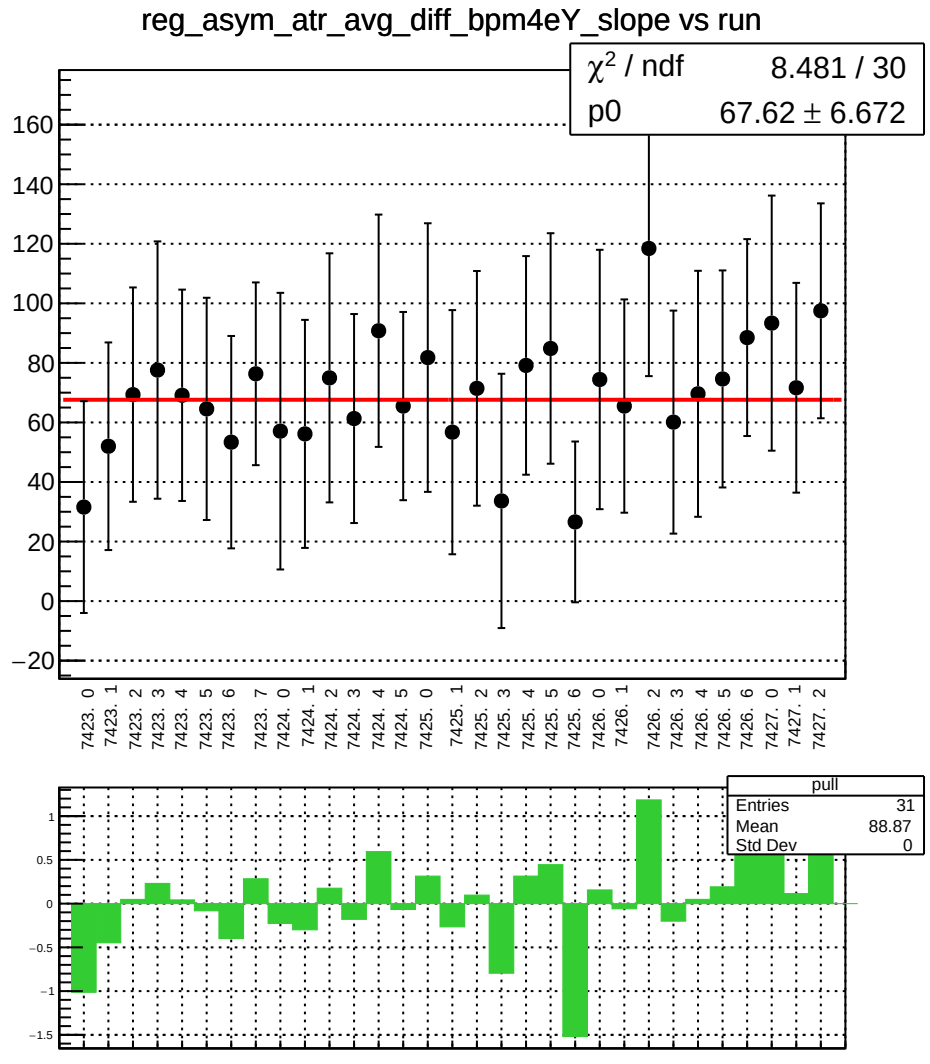

pull1D
Entries 31
Mean −0.04929
Std Dev 0.8879
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

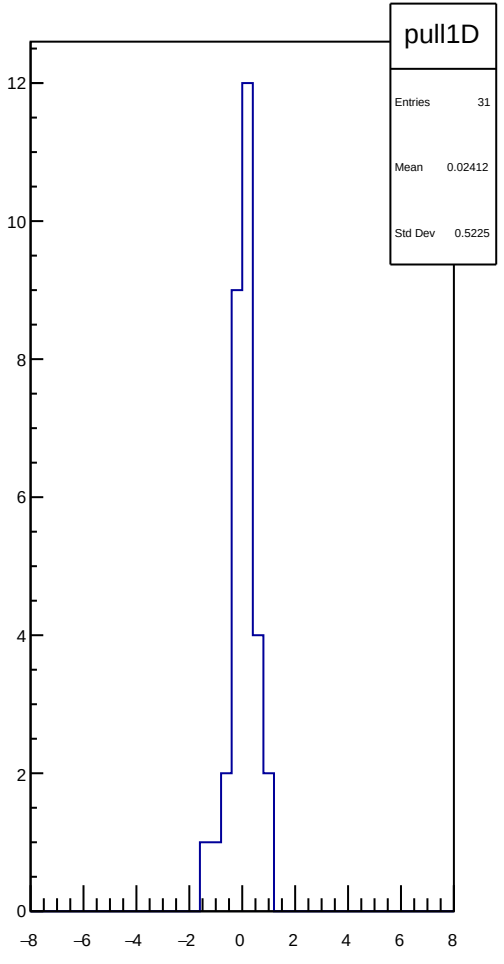

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.633 / 30
p0 −14.53 ± 6.261
pull
Entries 31
Mean 73.29
Std Dev 0

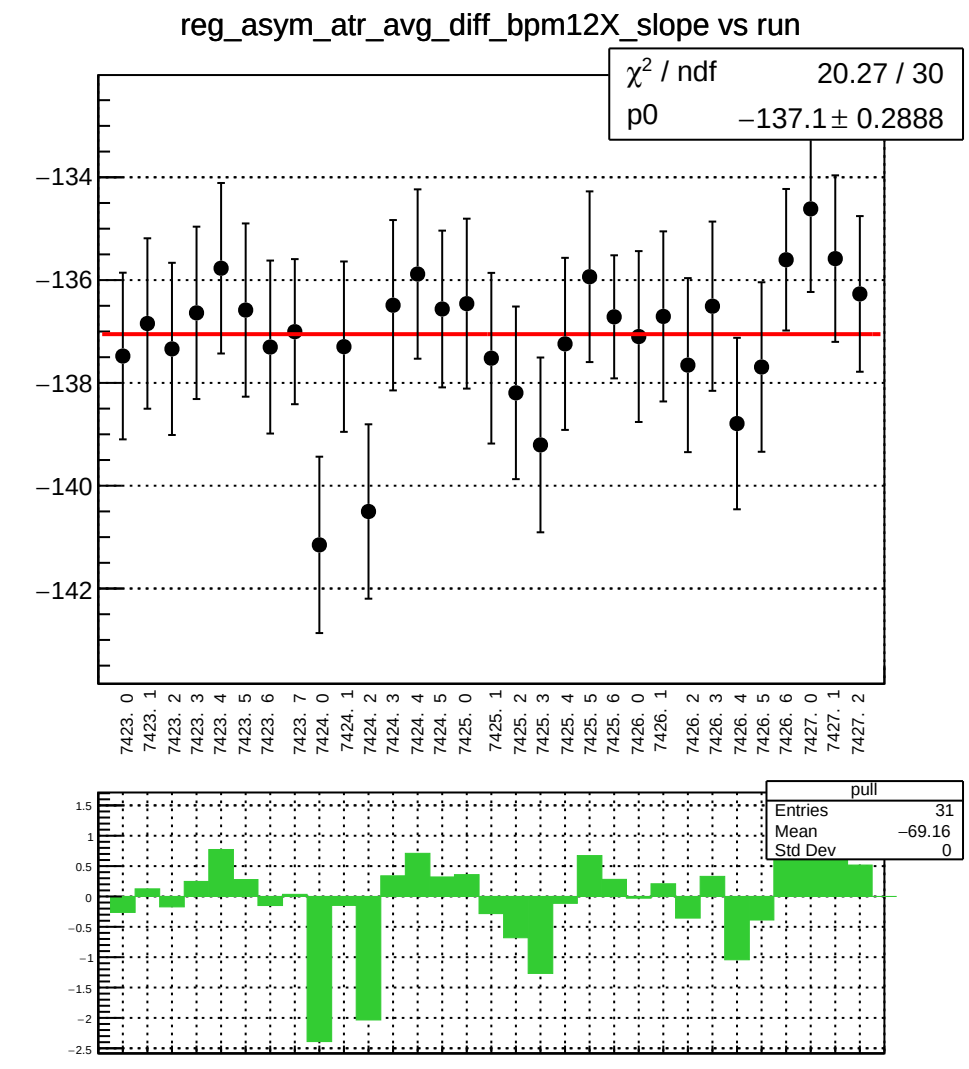

pull1D
Entries 31
Mean −0.03526
Std Dev 0.5563

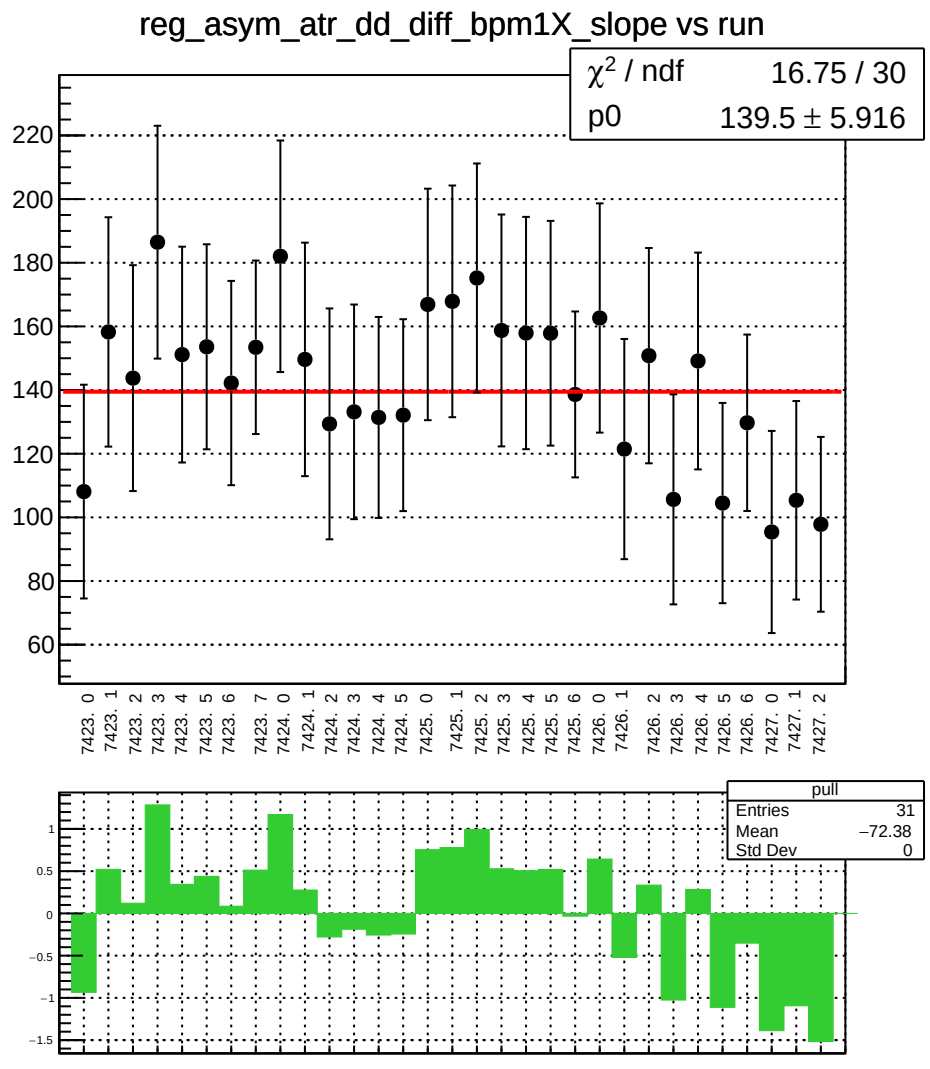

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.88 / 30
p0 224.8 ± 6.808
350
300
250
200
150
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −87.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

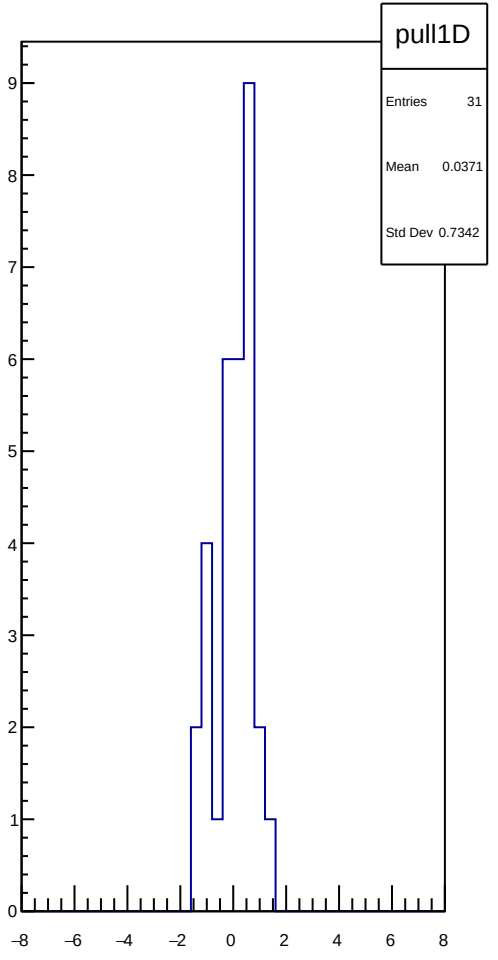

pull1D
Entries 31
Mean 0.04731
Std Dev 0.8946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

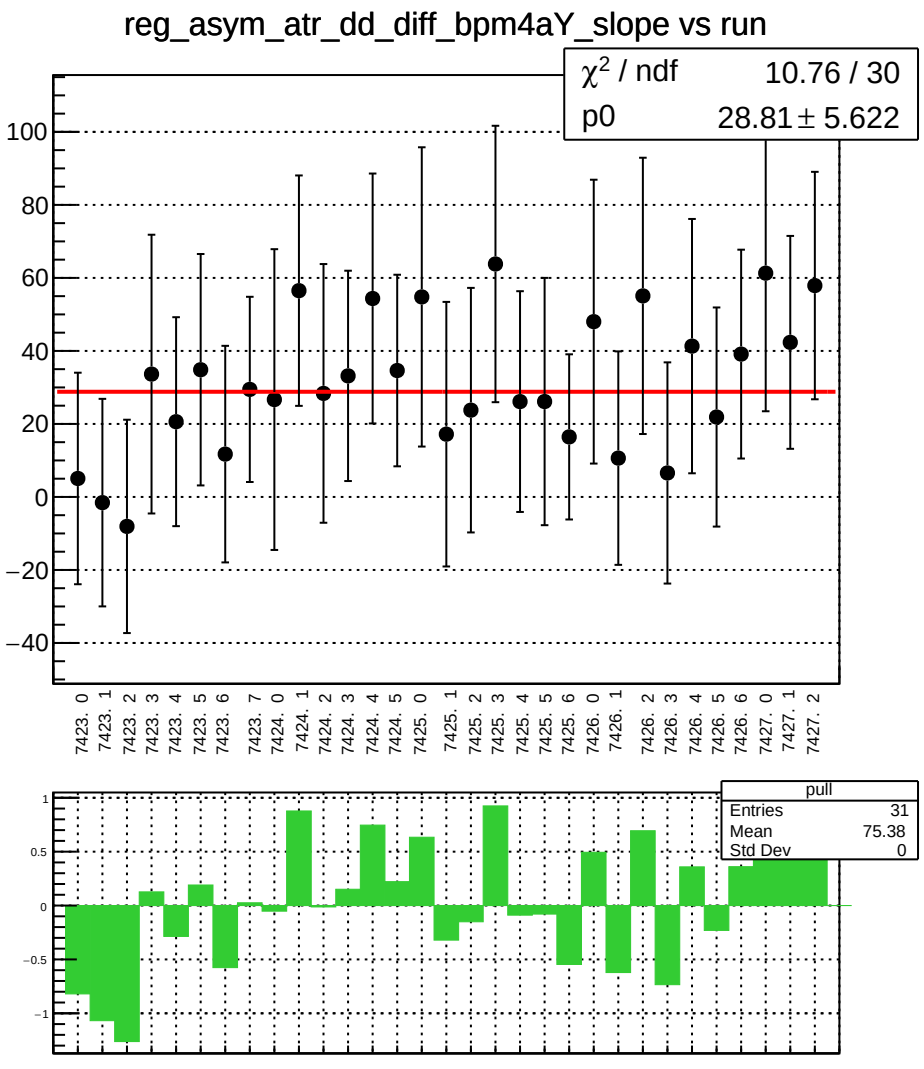

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.481 / 30
p0 67.62 ± 6.672
pull
Entries 31
Mean 88.87
Std Dev 0

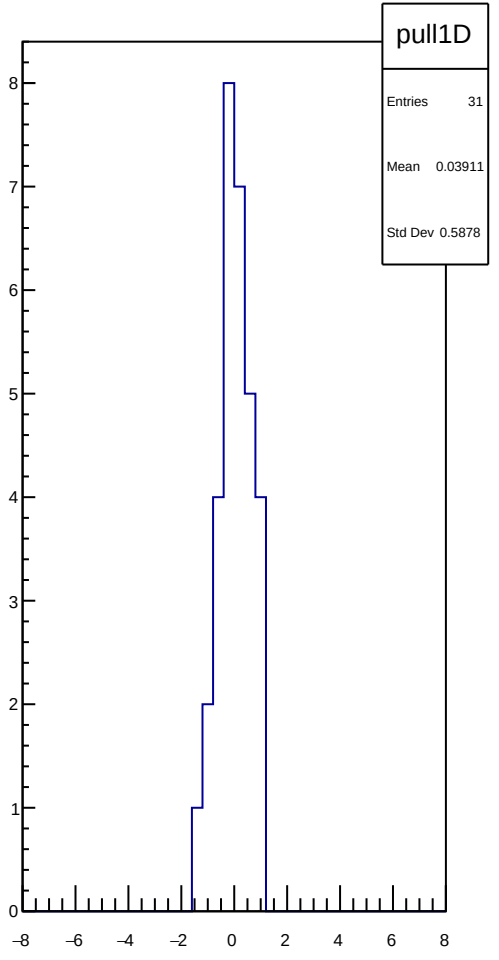

pull1D
Entries 31
Mean 0.02412
Std Dev 0.5225

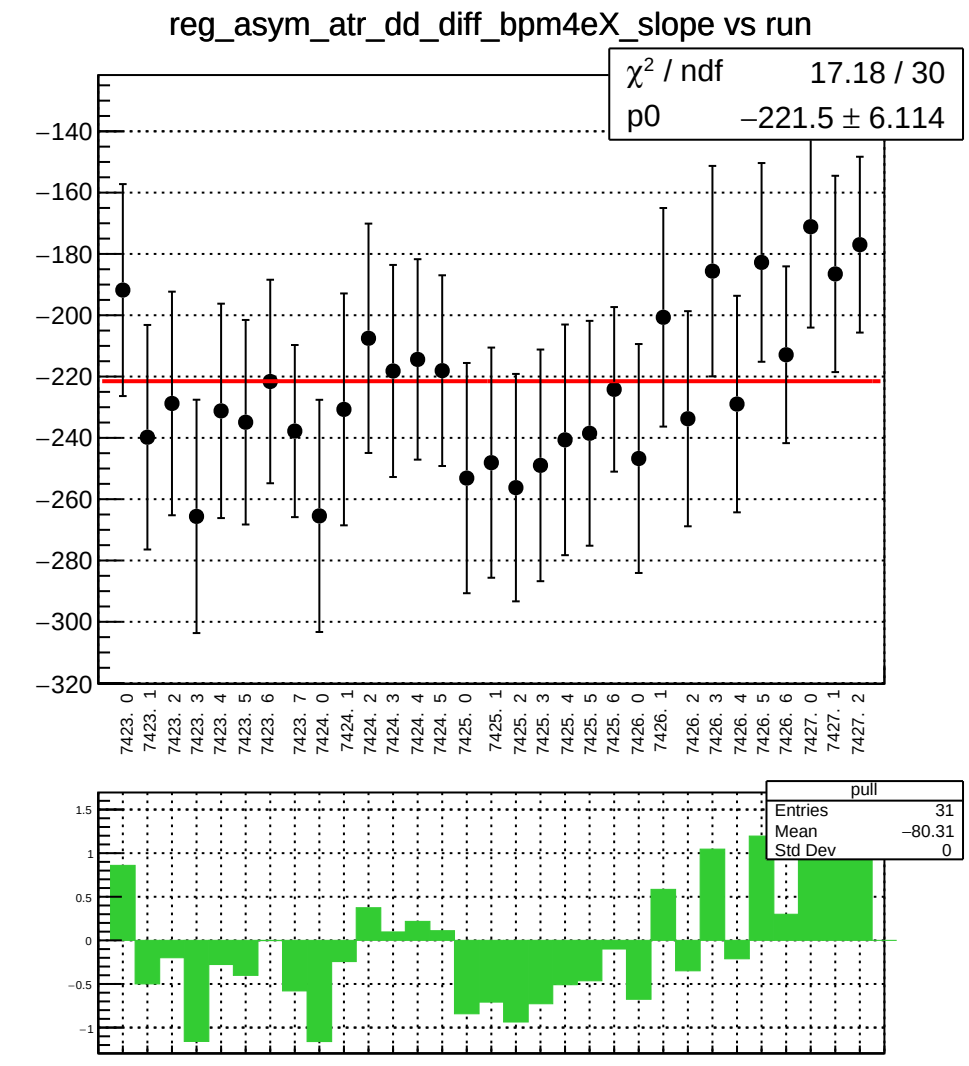

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 20.27 / 30
p0 −137.1 ± 0.2888
−134
−136
−138
−140
−142
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −69.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.02075
Std Dev 0.8084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

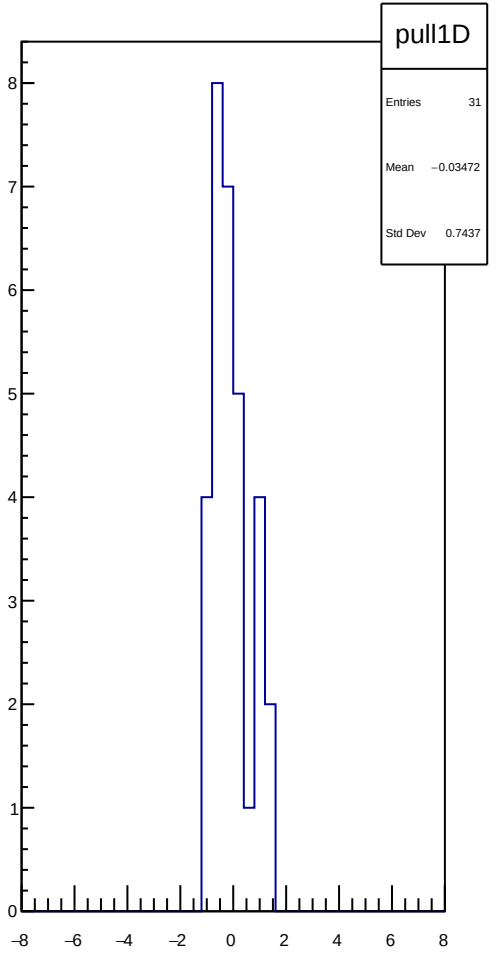

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 16.75 / 30
p0 139.5 ± 5.916
220
200
180
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −72.38
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

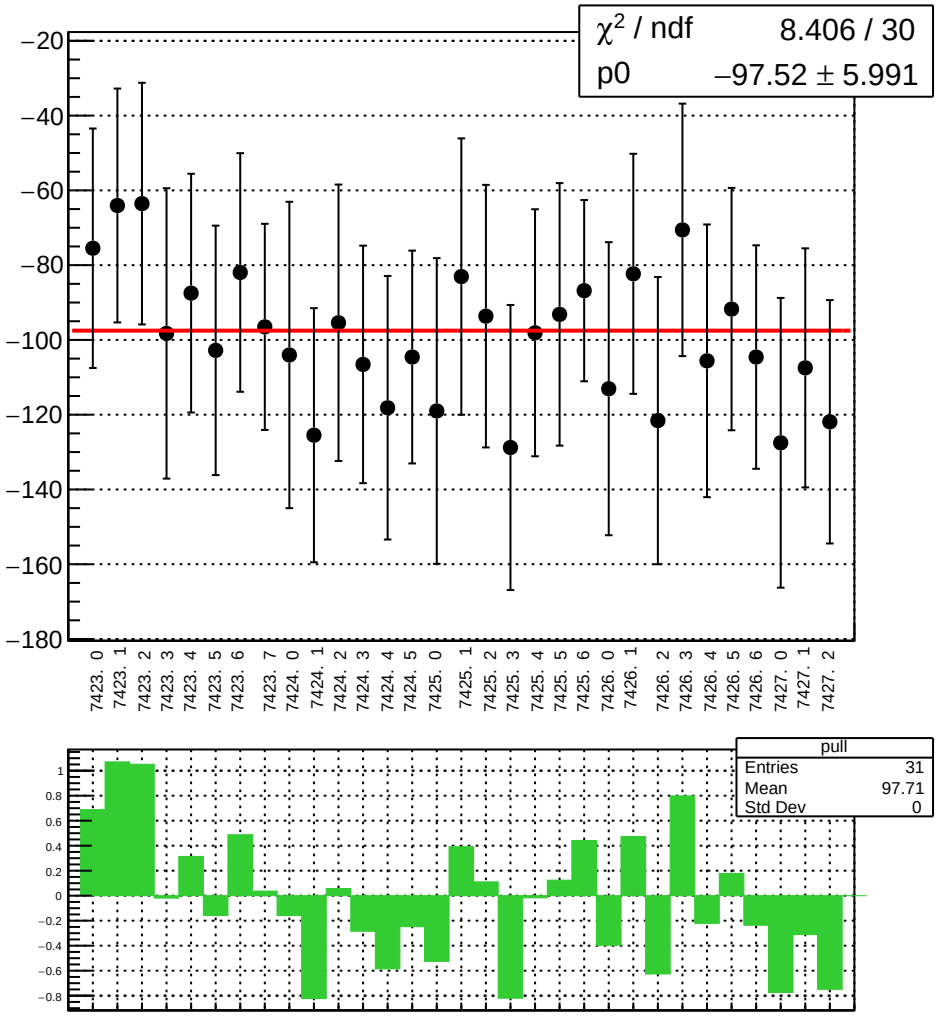

pull1D
Entries 31
Mean 0.0371
Std Dev 0.7342
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

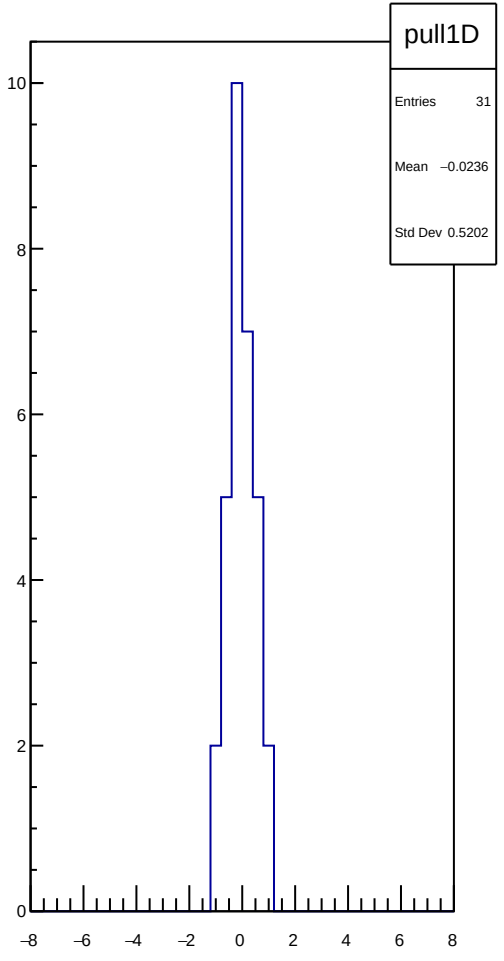

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.76 / 30
p0 28.81 ± 5.622
100
80
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 75.38
Std Dev 0
1
0.5
0
−0.5
−1

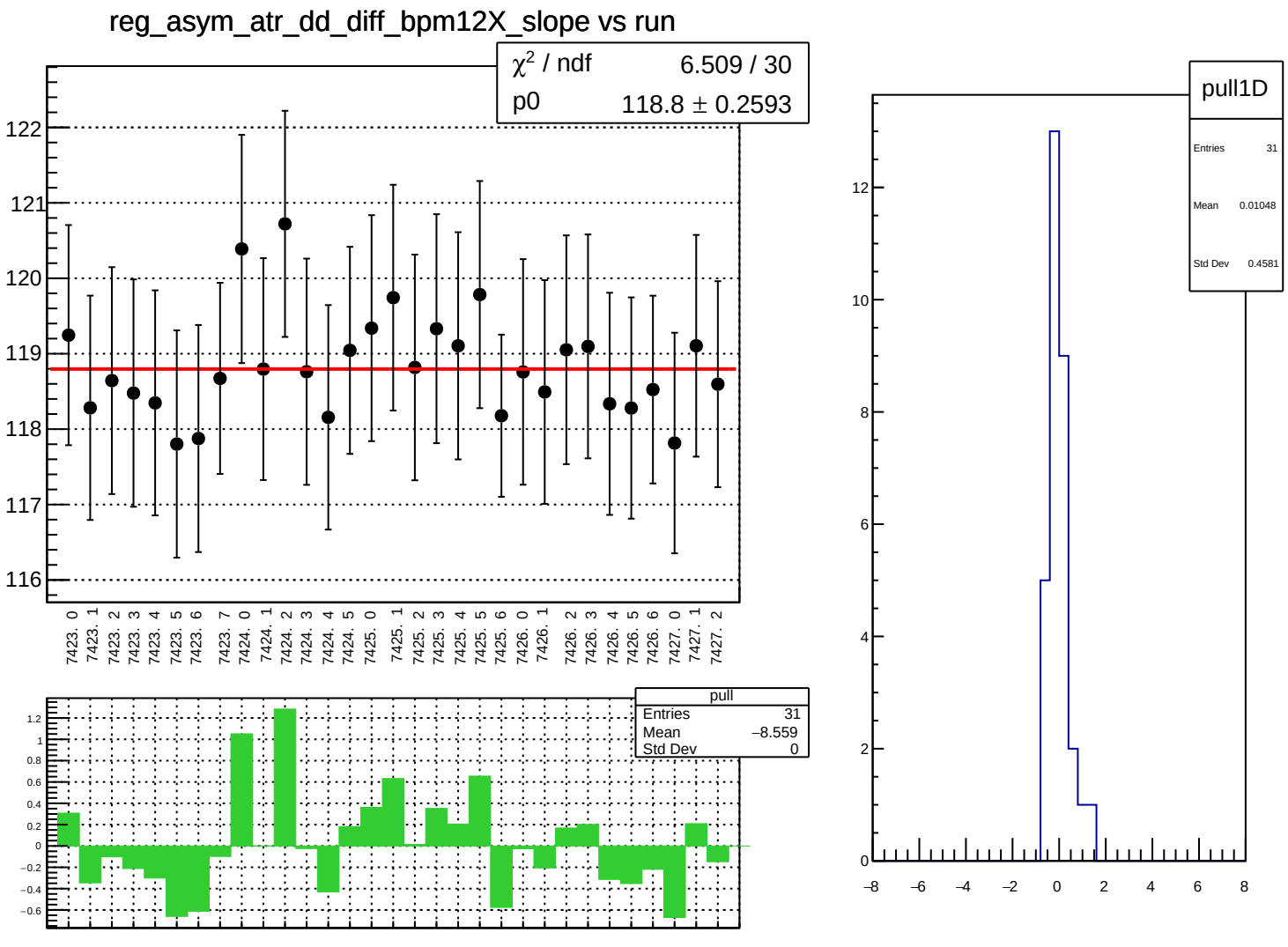

pull1D
Entries 31
Mean 0.03911
Std Dev 0.5878
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

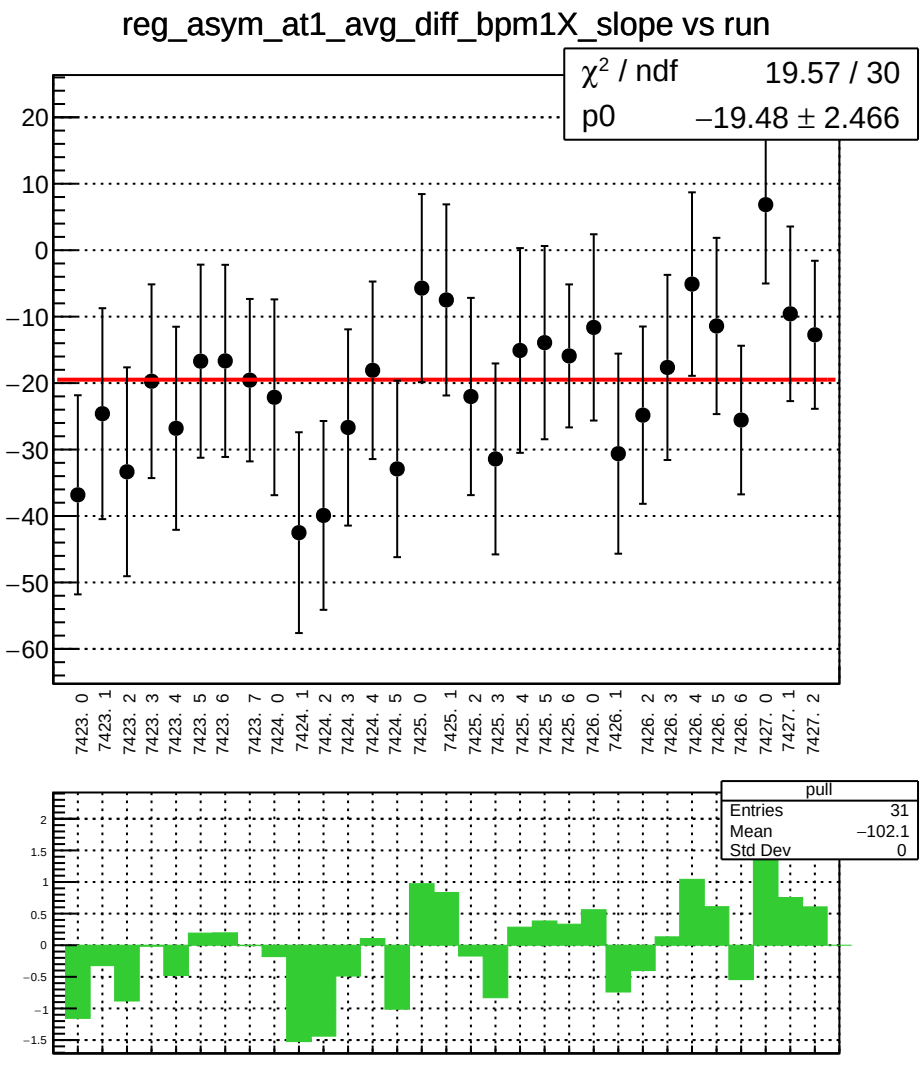

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.18 / 30
p0 −221.5 ± 6.114
−140
−160
−180
−200
−220
−240
−260
−280
−300
−320
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −80.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1

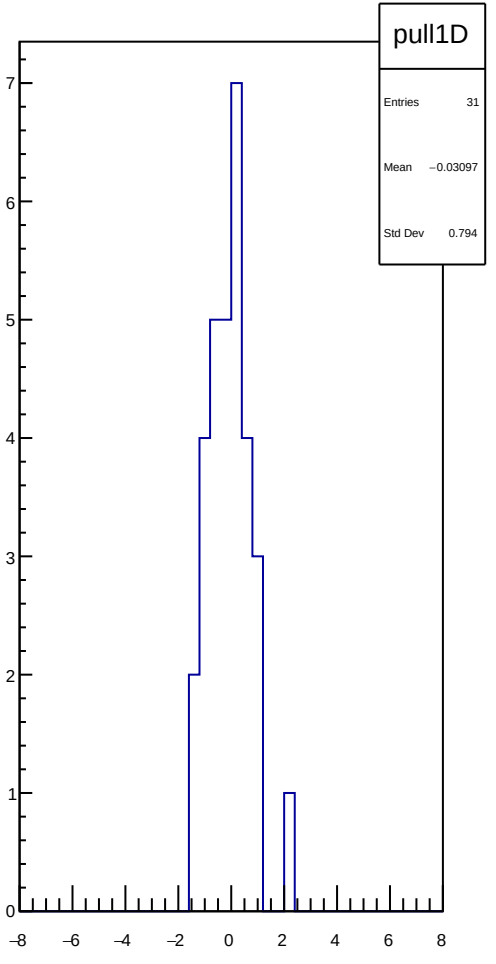

pull1D
Entries 31
Mean −0.03472
Std Dev 0.7437
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

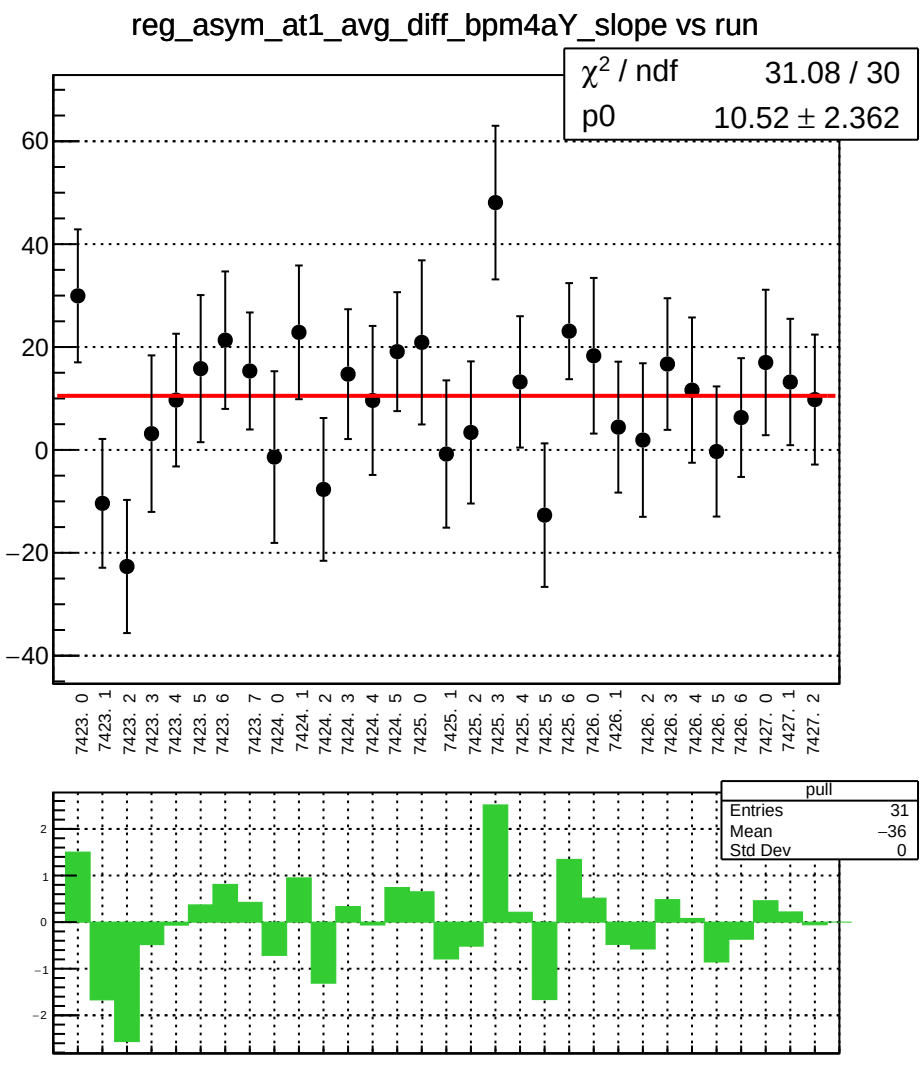

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.406 / 30
p0 −97.52 ± 5.991
pull
Entries 31
Mean 97.71
Std Dev 0

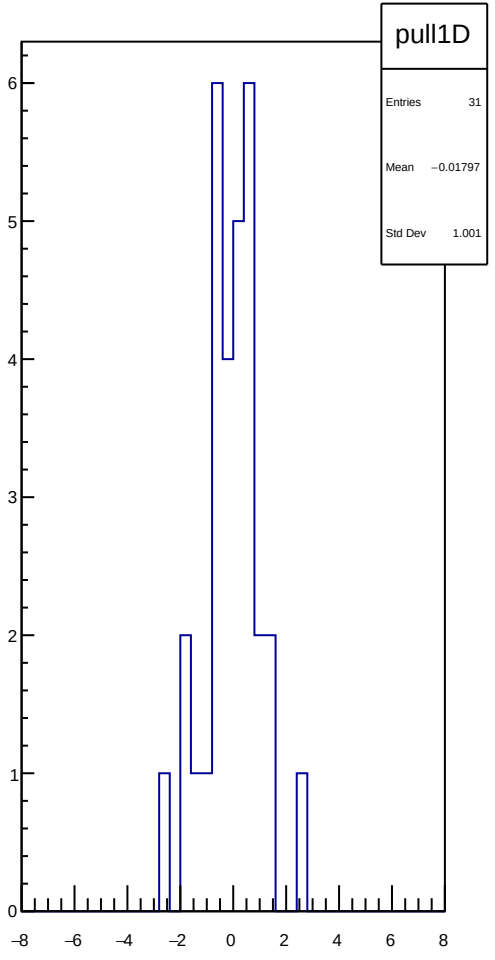

pull1D
Entries 31
Mean −0.0236
Std Dev 0.5202

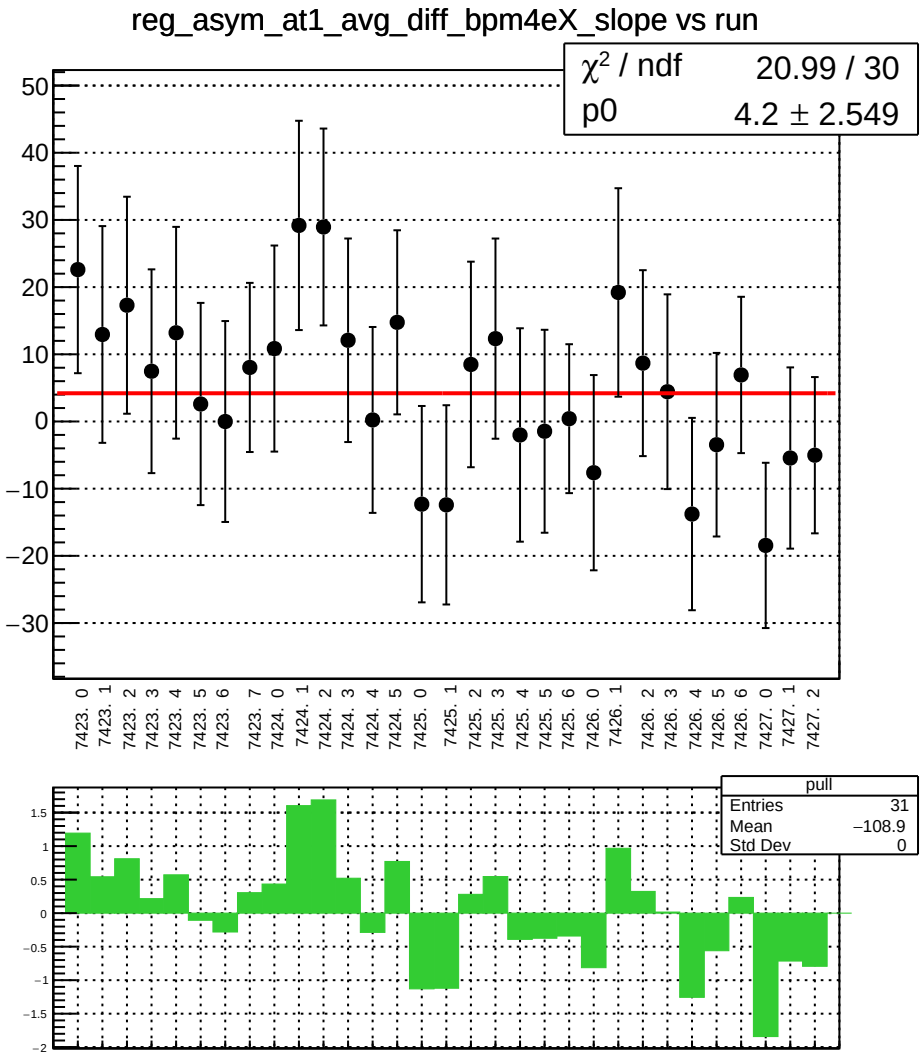

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 6.509 / 30
p0 118.8 ± 0.2593
122
121
120
119
118
117
116
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −8.559
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean 0.01048
Std Dev 0.4581
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

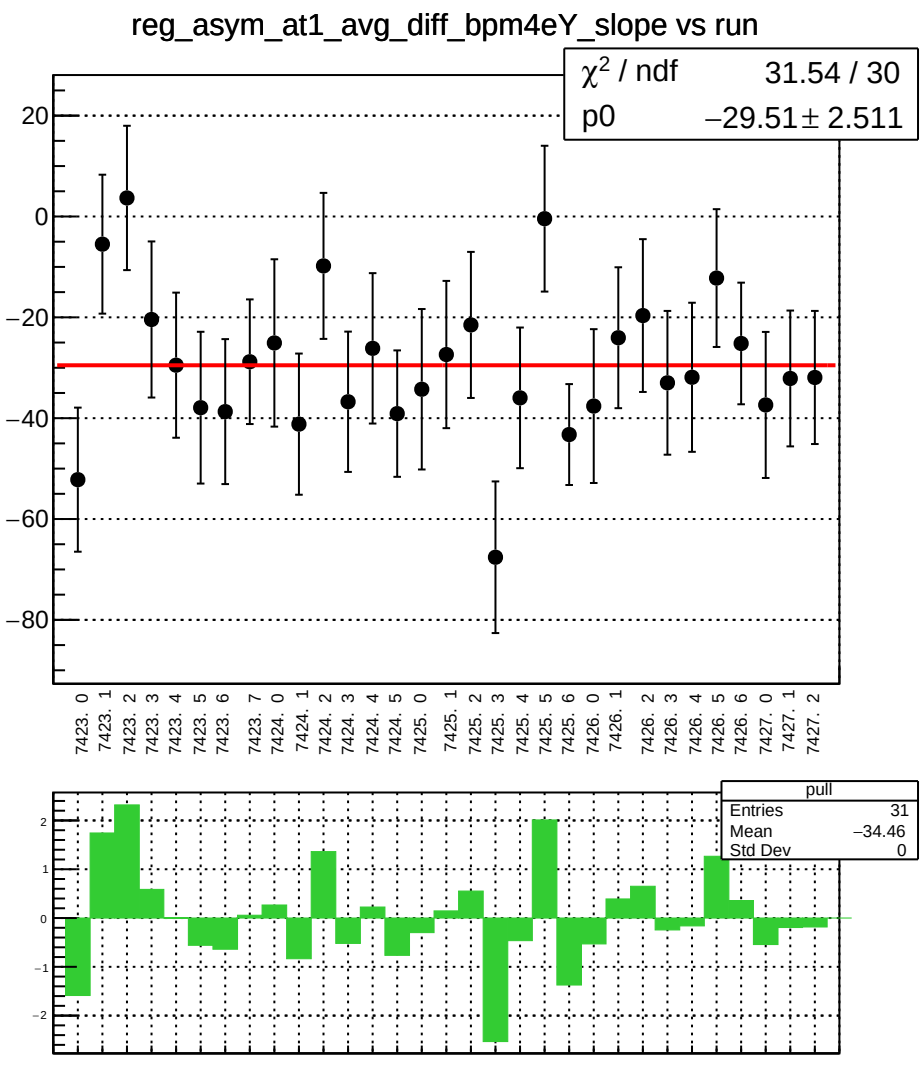

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 19.57 / 30
p0 −19.48 ± 2.466
20
10
0
−10
−20
−30
−40
−50
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −102.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

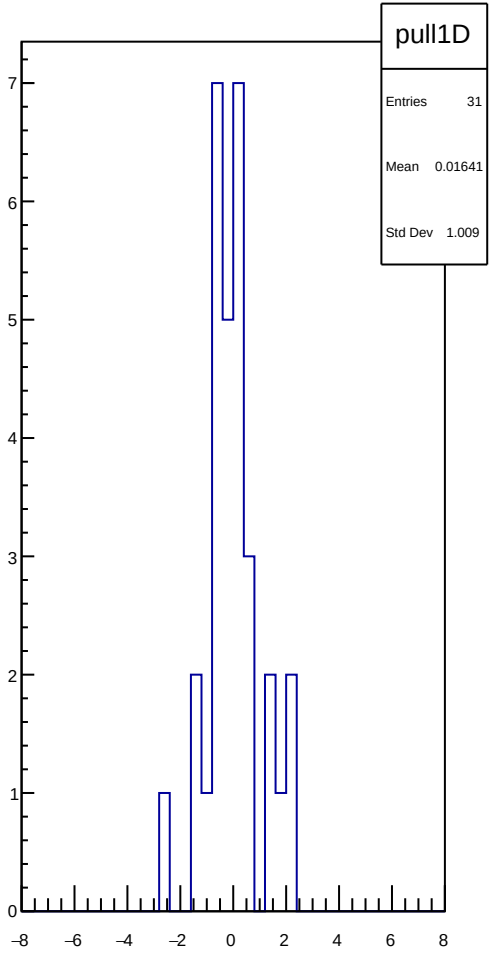

pull1D
Entries 31
Mean −0.03097
Std Dev 0.794
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

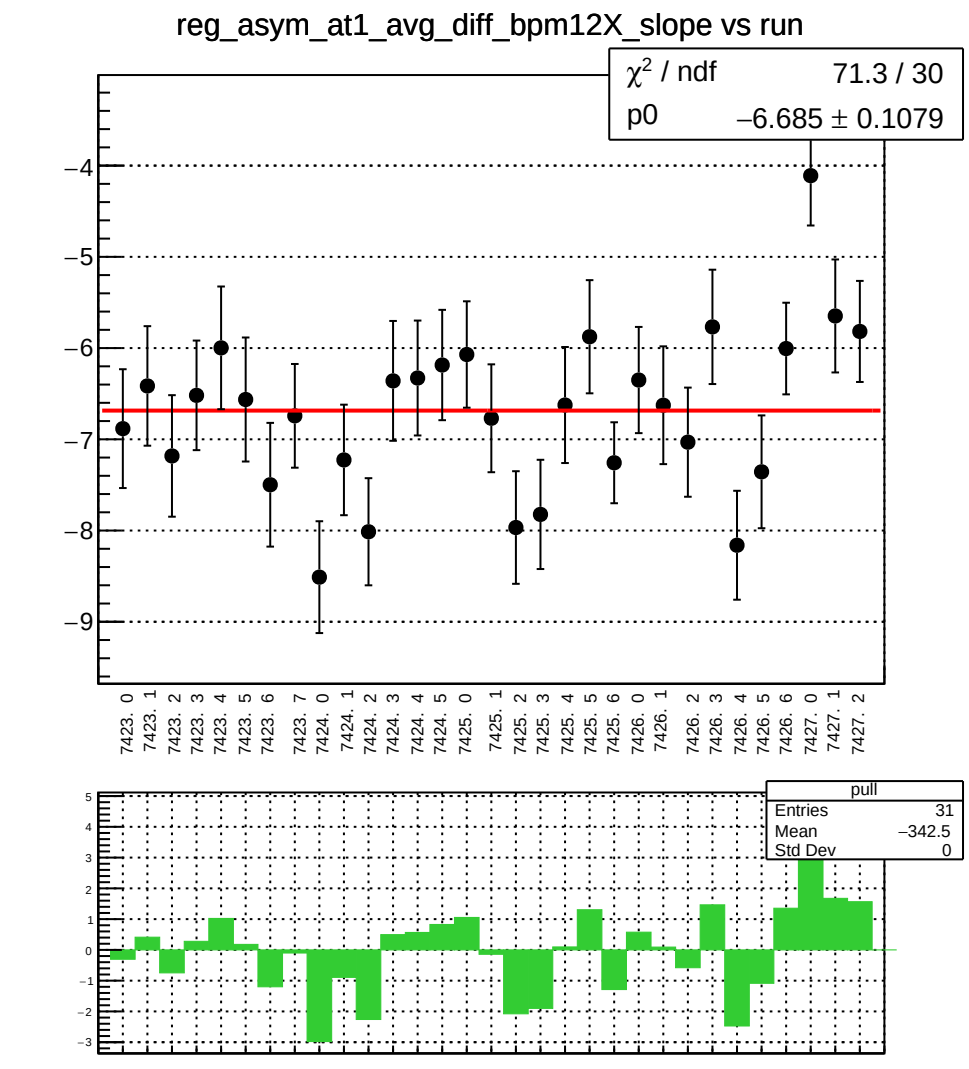

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.08 / 30
p0 10.52 ± 2.362
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −36
Std Dev 0
2
1
0
−1
−2

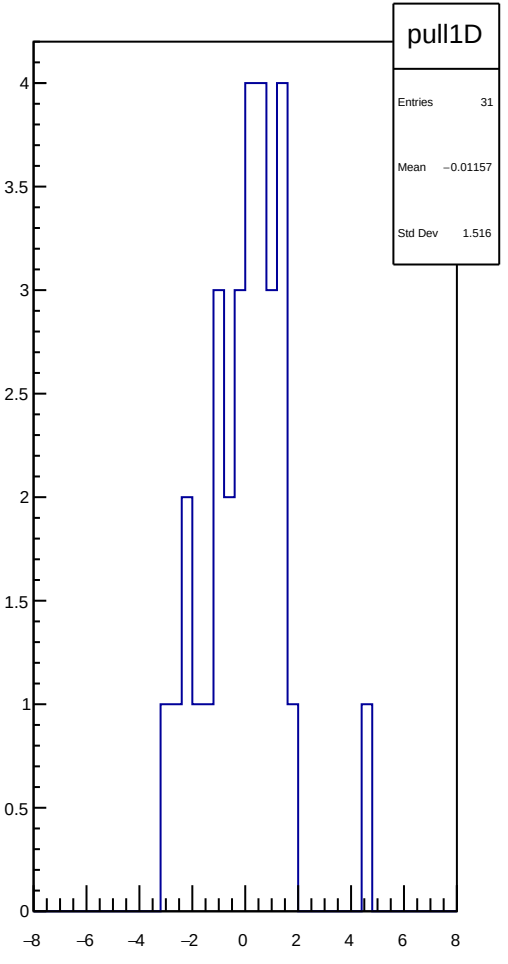

pull1D
Entries 31
Mean −0.01797
Std Dev 1.001
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

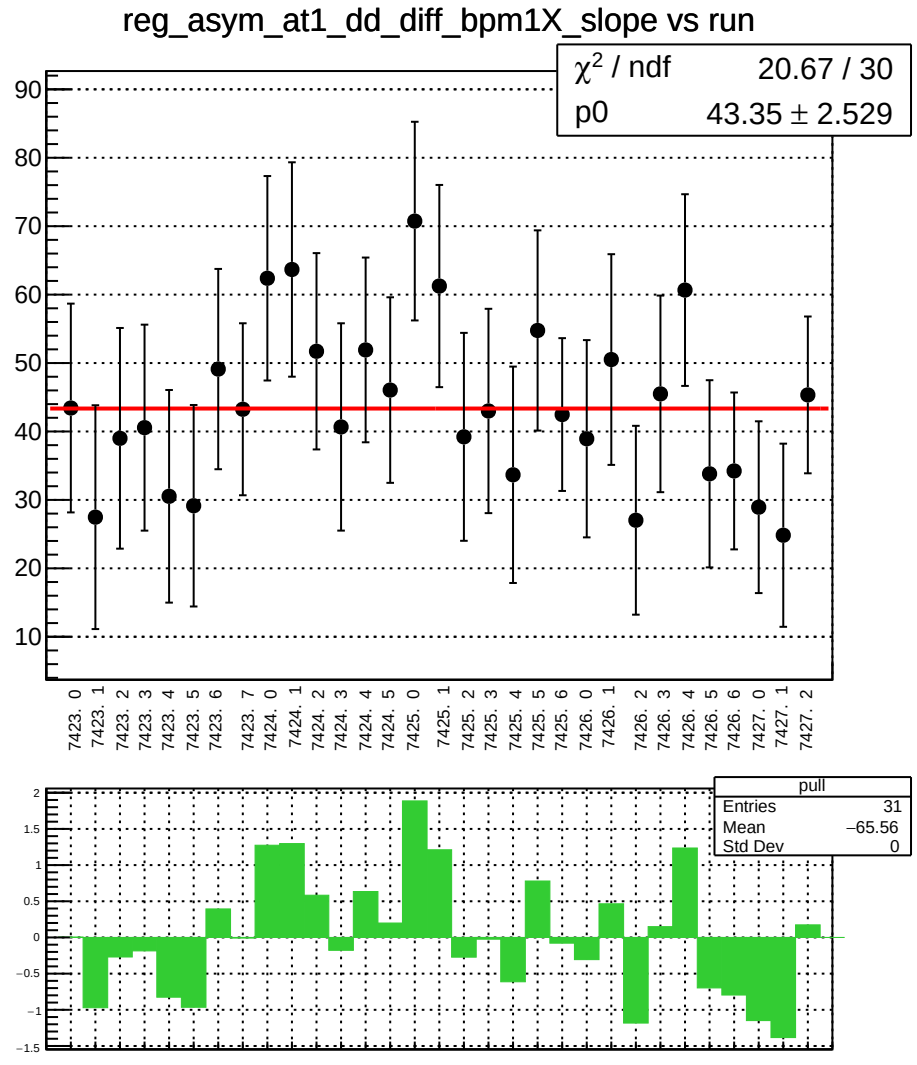

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.99 / 30
p0 4.2 ± 2.549
50
40
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −108.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.03283
Std Dev 0.8222
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

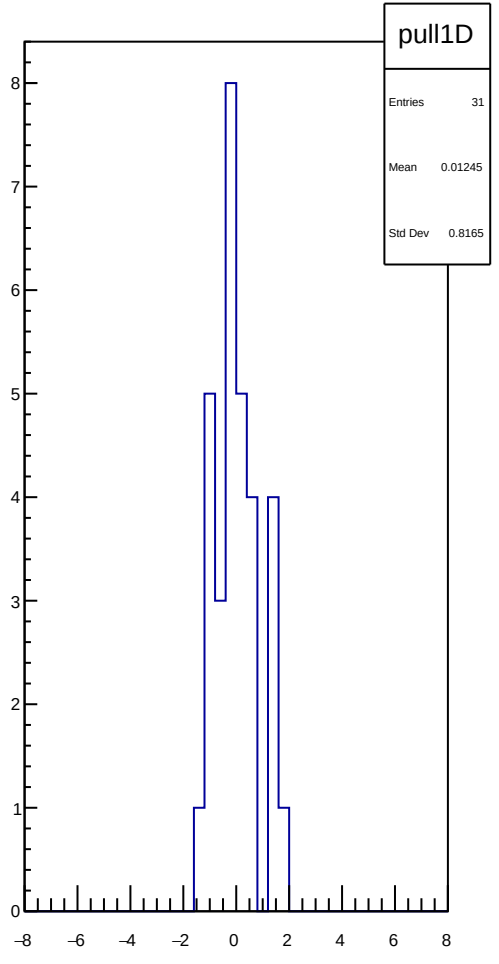

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.54 / 30
p0 −29.51 ± 2.511
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −34.46
Std Dev 0
2
1
0
−1
−2

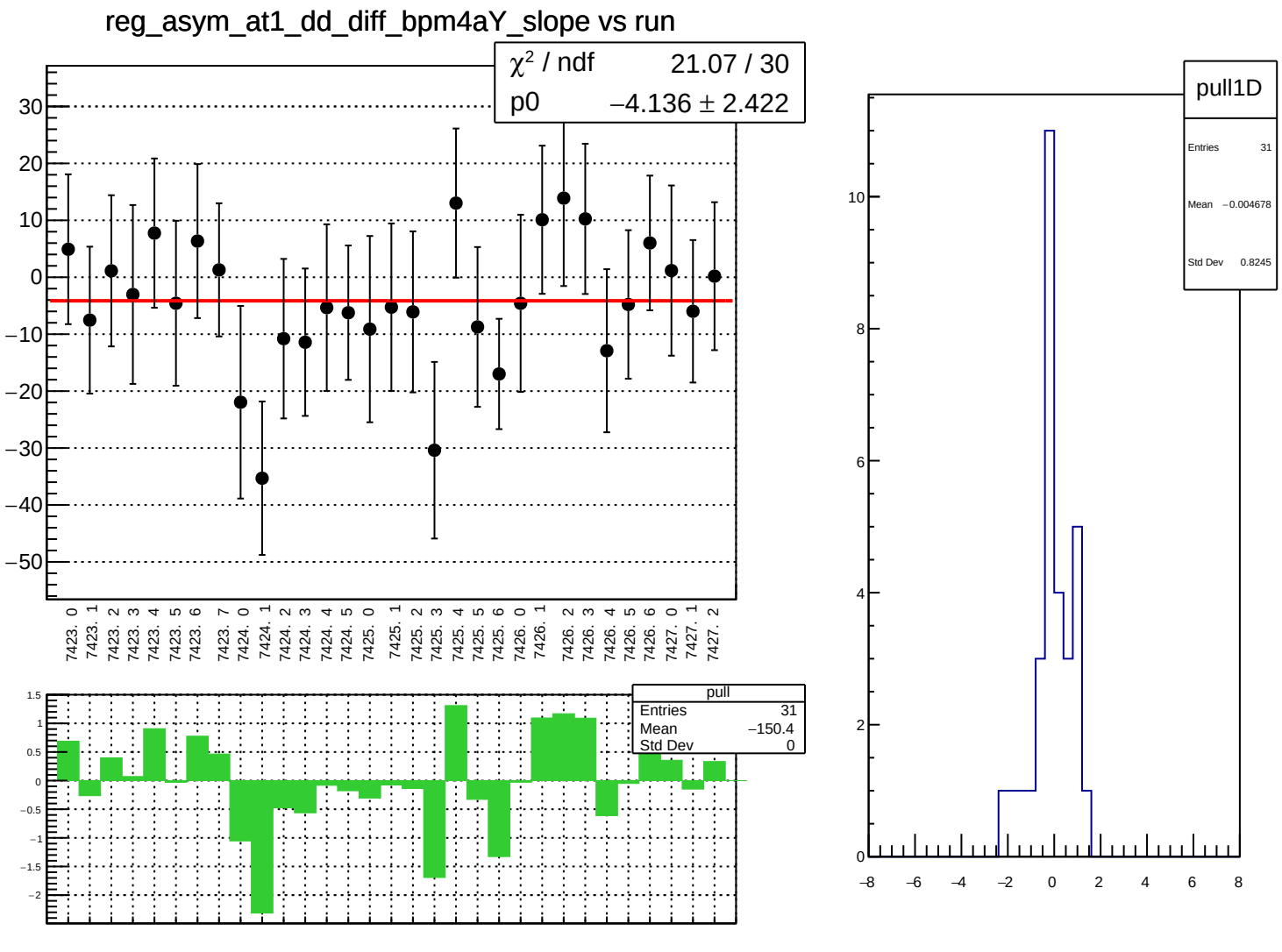

pull1D
Entries 31
Mean 0.01641
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

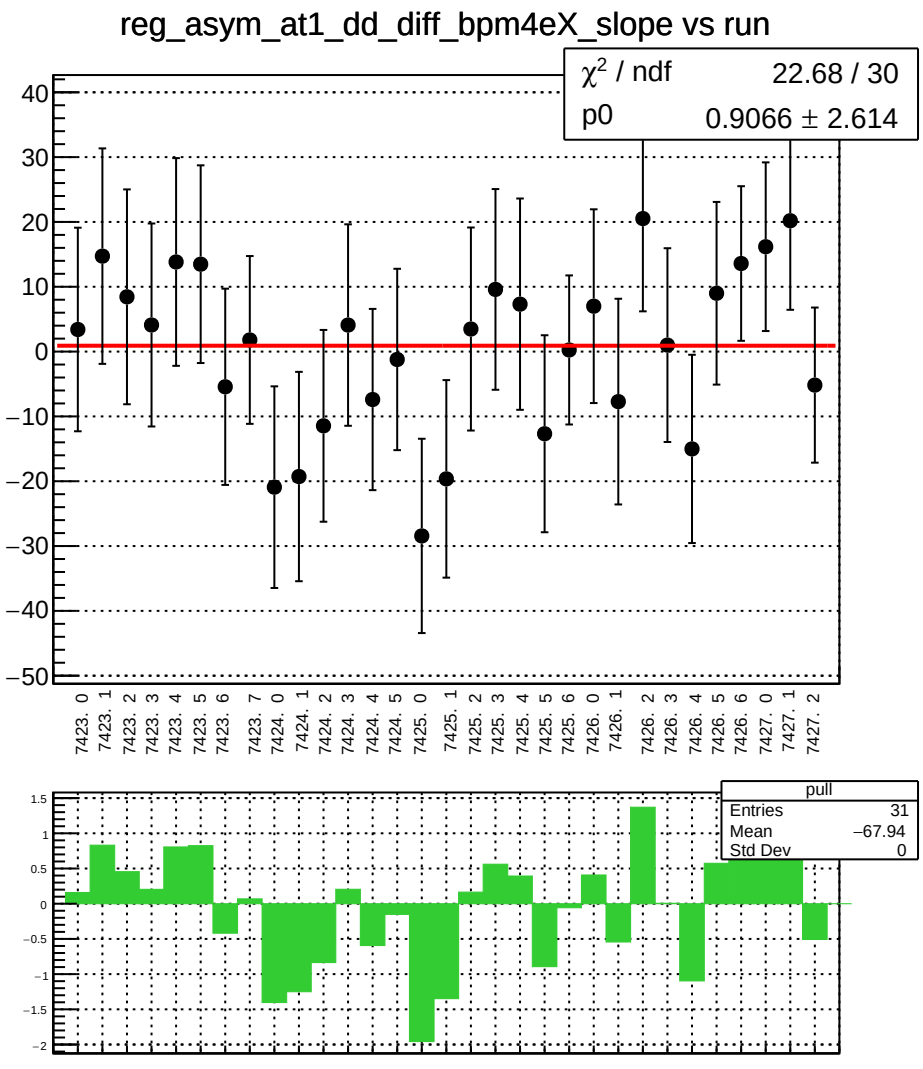

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 71.3 / 30
p0 −6.685 ± 0.1079
pull
Entries 31
Mean −342.5
Std Dev 0

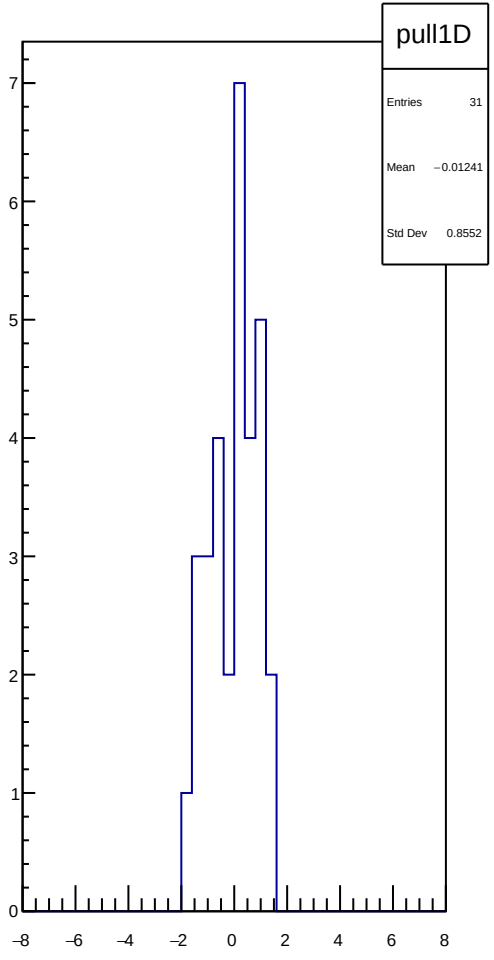

pull1D
Entries 31
Mean −0.01157
Std Dev 1.516

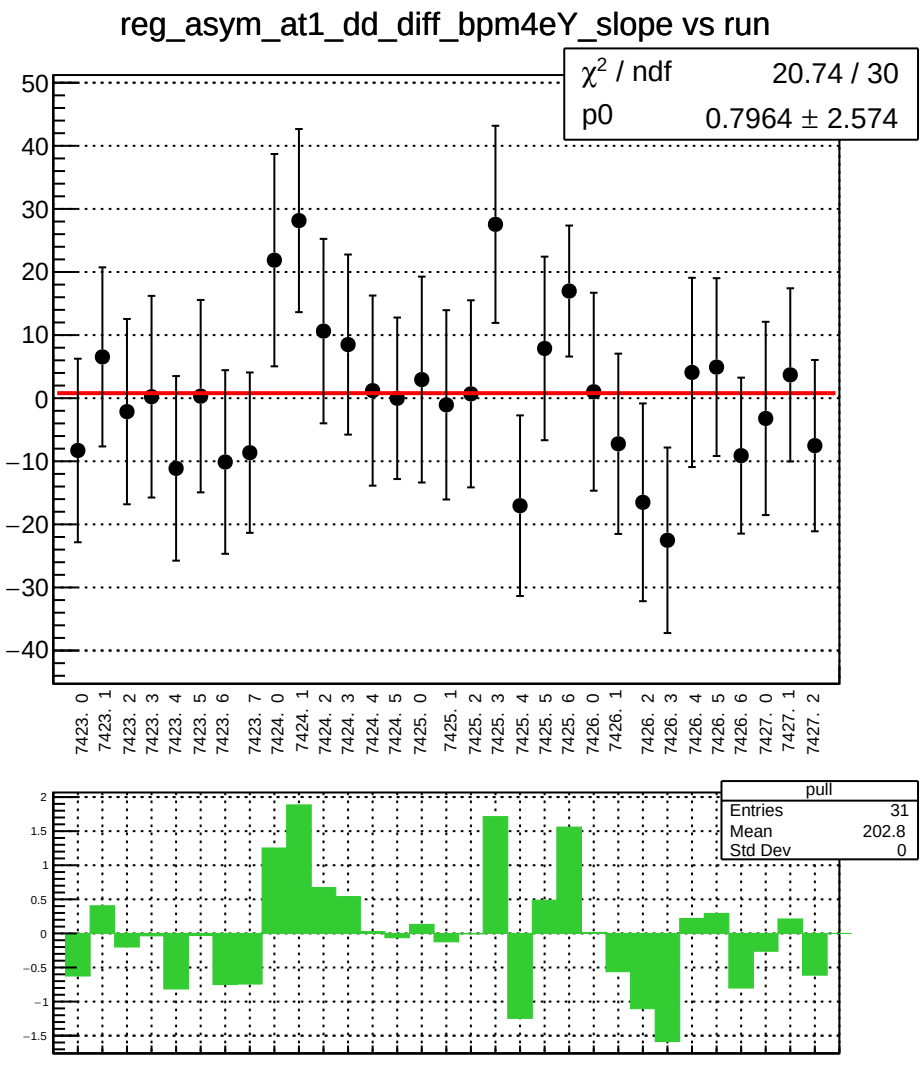

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 20.67 / 30
p0 43.35 ± 2.529
90
80
70
60
50
40
30
20
10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −65.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

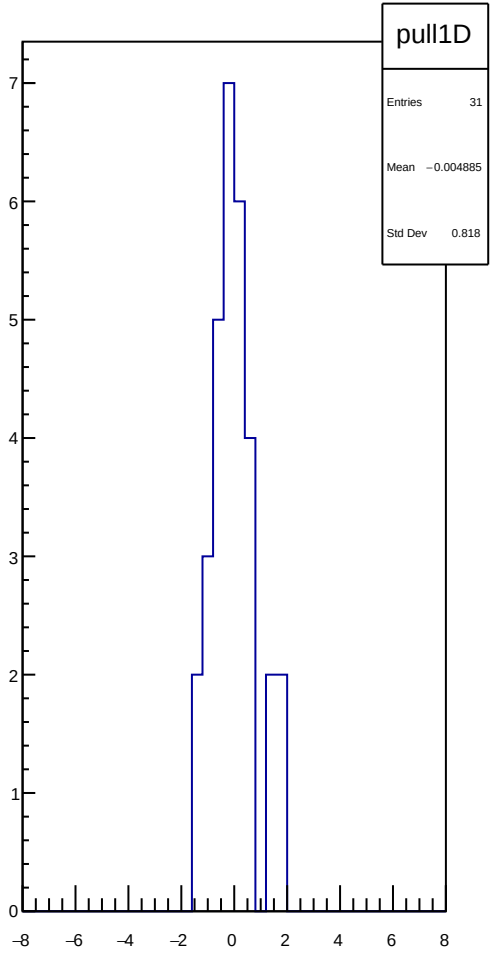

pull1D
Entries 31
Mean 0.01245
Std Dev 0.8165
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

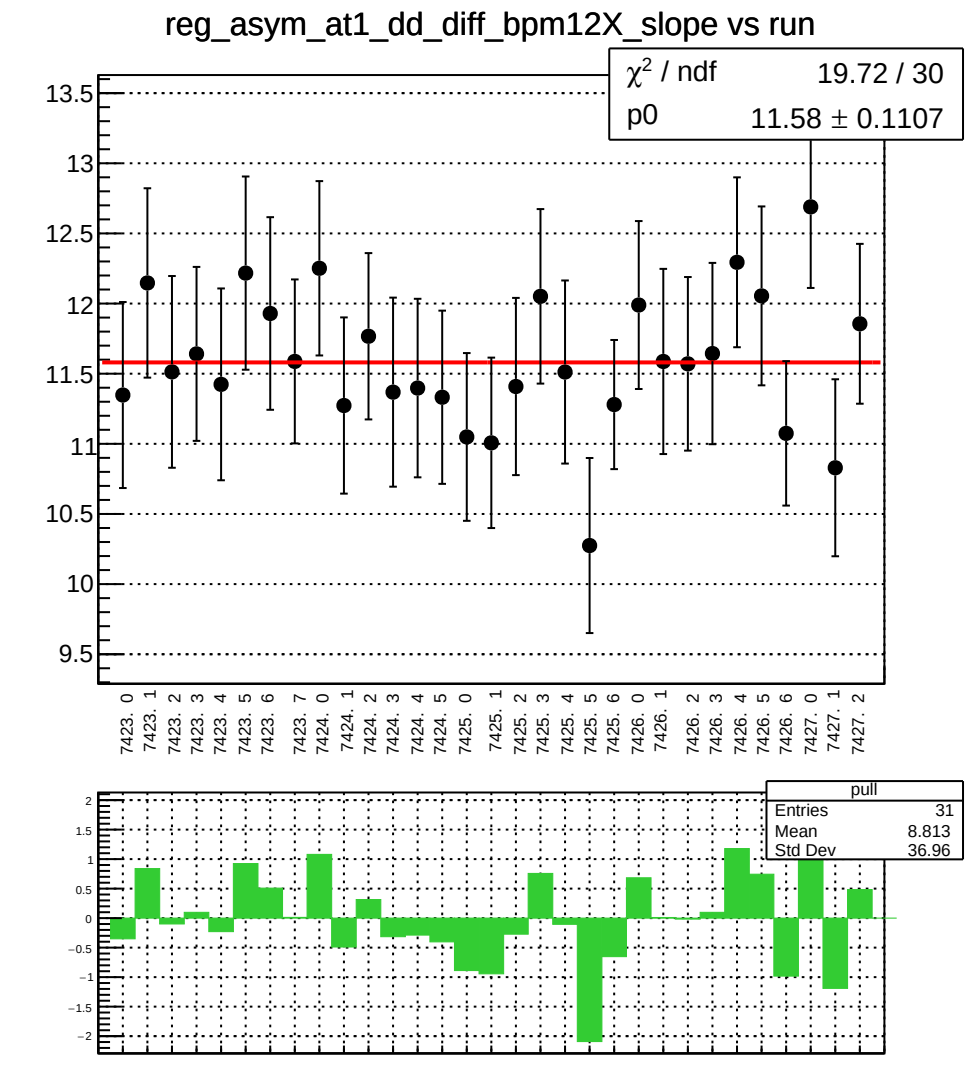

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.07 / 30
p0 −4.136 ± 2.422
30
20
10
0
−10
−20
−30
−40
−50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −150.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.004678
Std Dev 0.8245
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

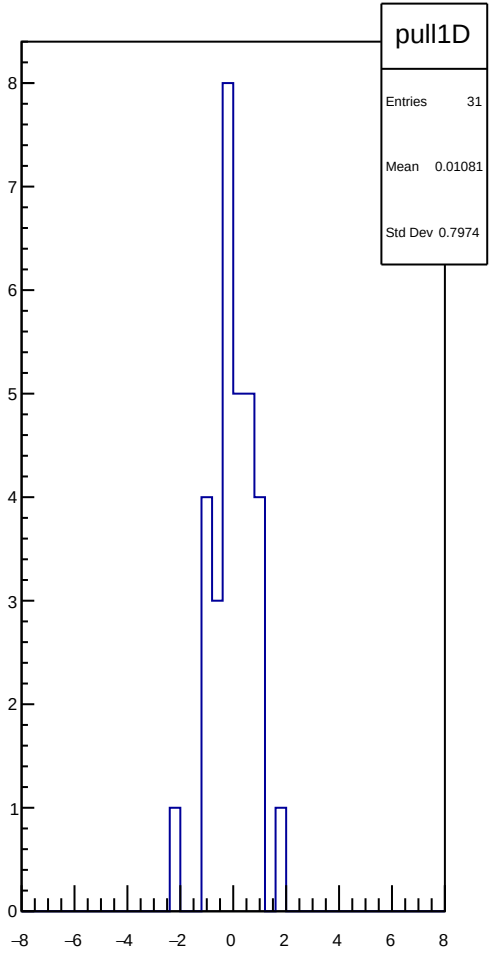

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.68 / 30
p0 0.9066 ± 2.614
pull
Entries 31
Mean −67.94
Std Dev 0

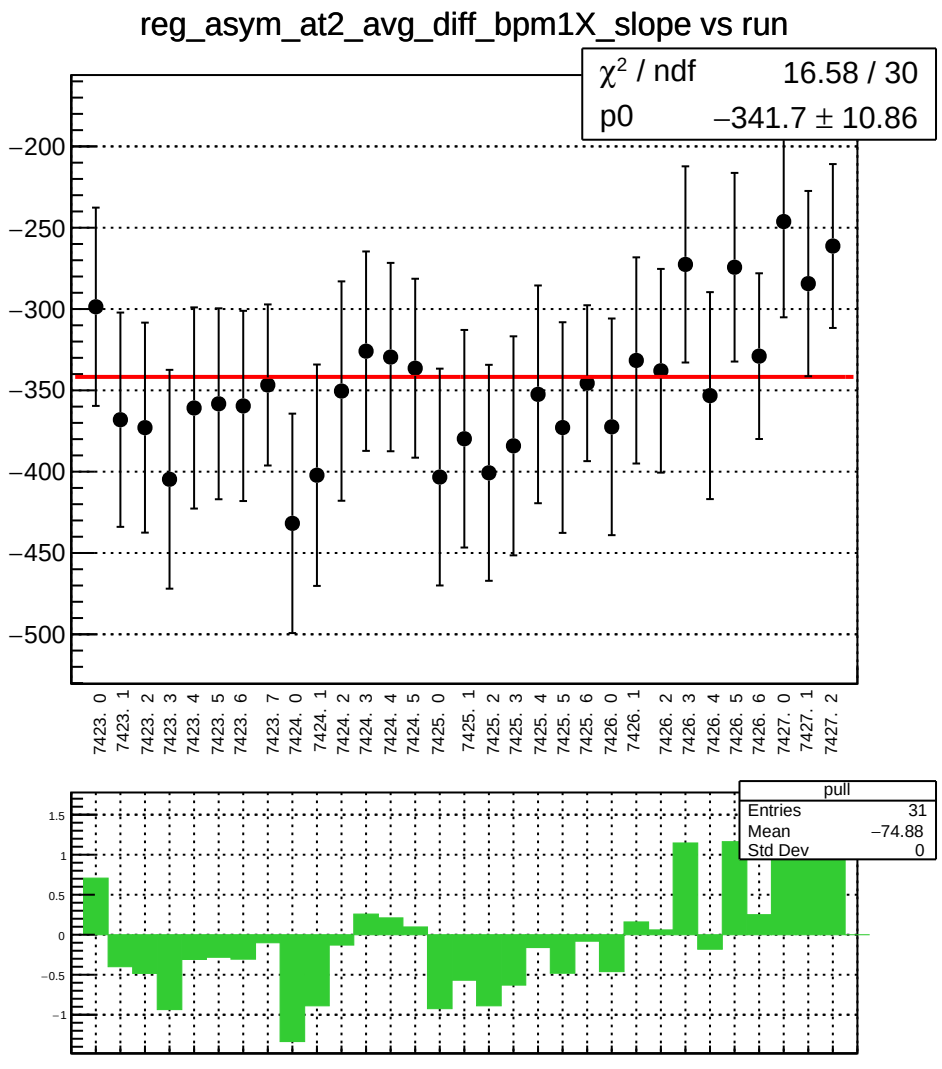

pull1D
Entries 31
Mean −0.01241
Std Dev 0.8552

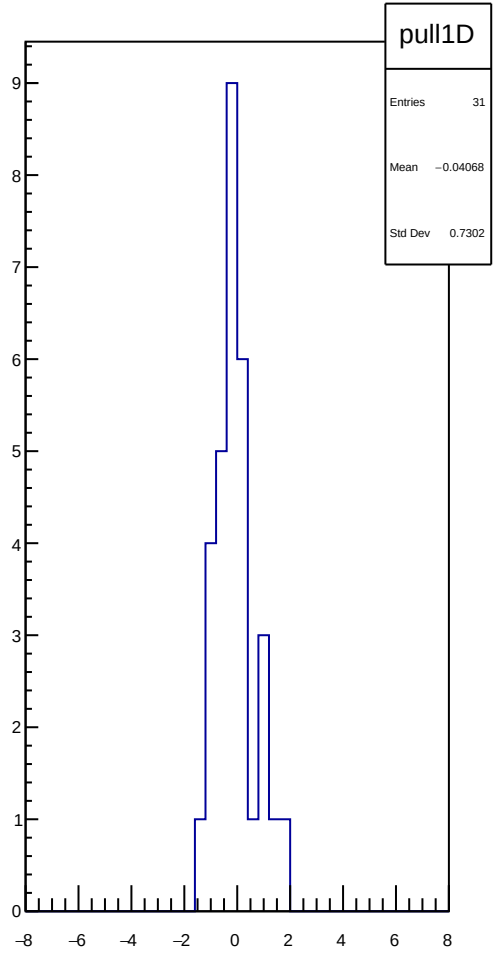

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.74 / 30
p0 0.7964 ± 2.574
pull
Entries 31
Mean 202.8
Std Dev 0

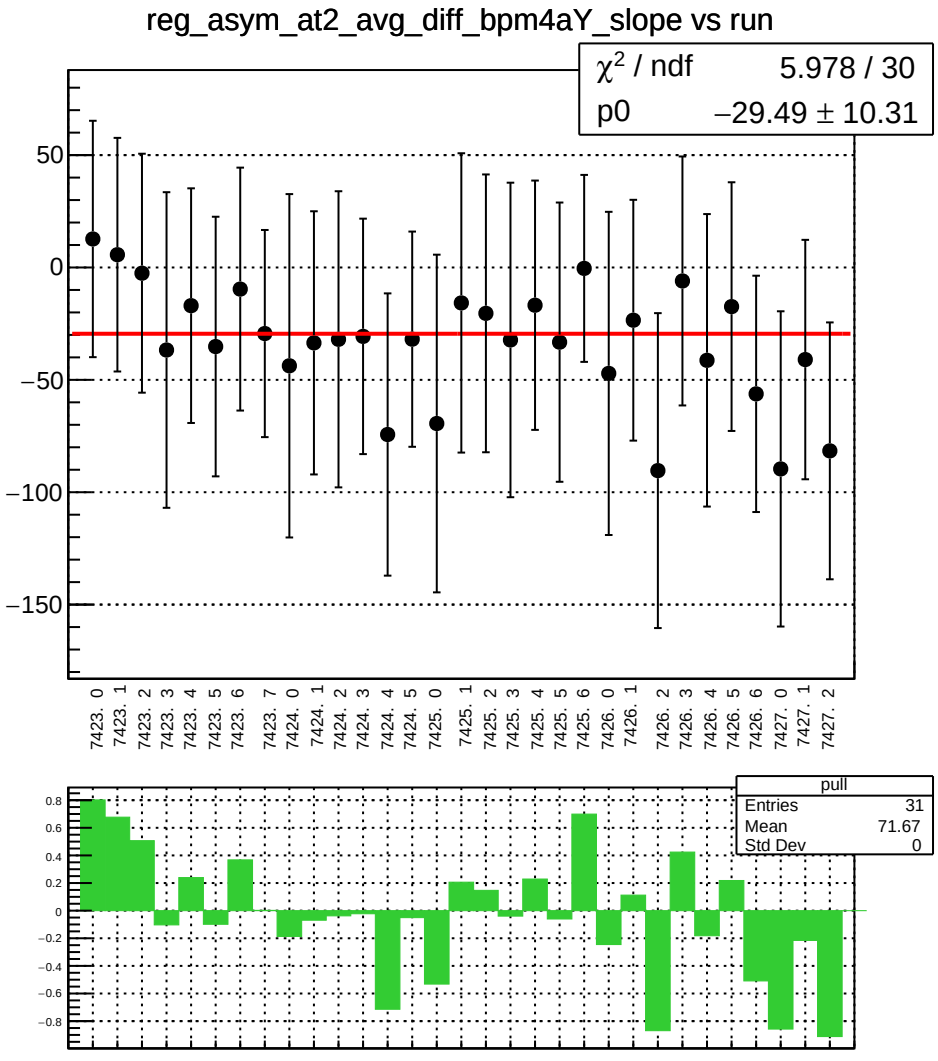

pull1D
Entries 31
Mean −0.004885
Std Dev 0.818

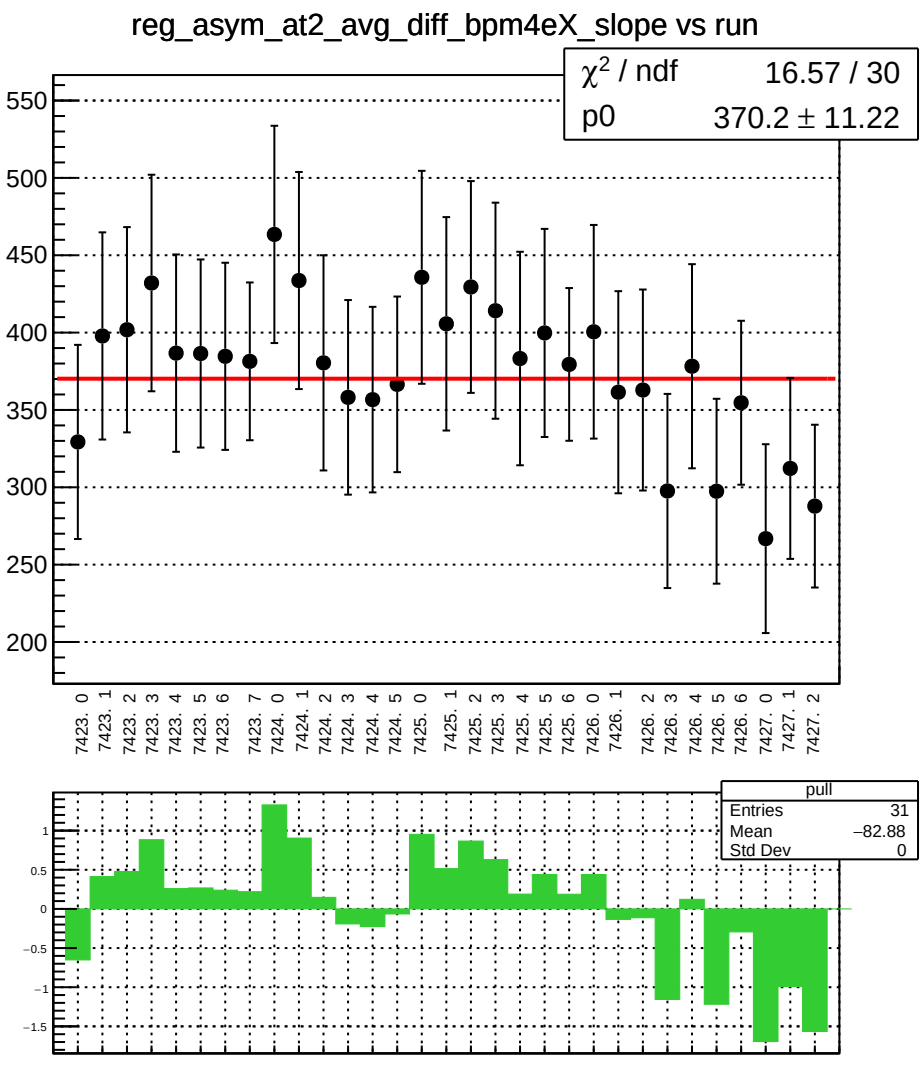

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 19.72 / 30
p0 11.58 ± 0.1107
pull
Entries 31
Mean 8.813
Std Dev 36.96

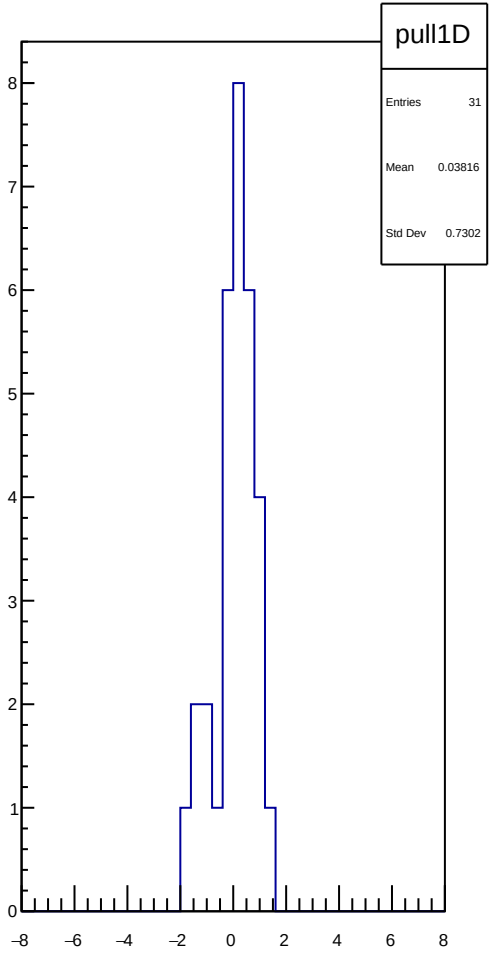

pull1D
Entries 31
Mean 0.01081
Std Dev 0.7974

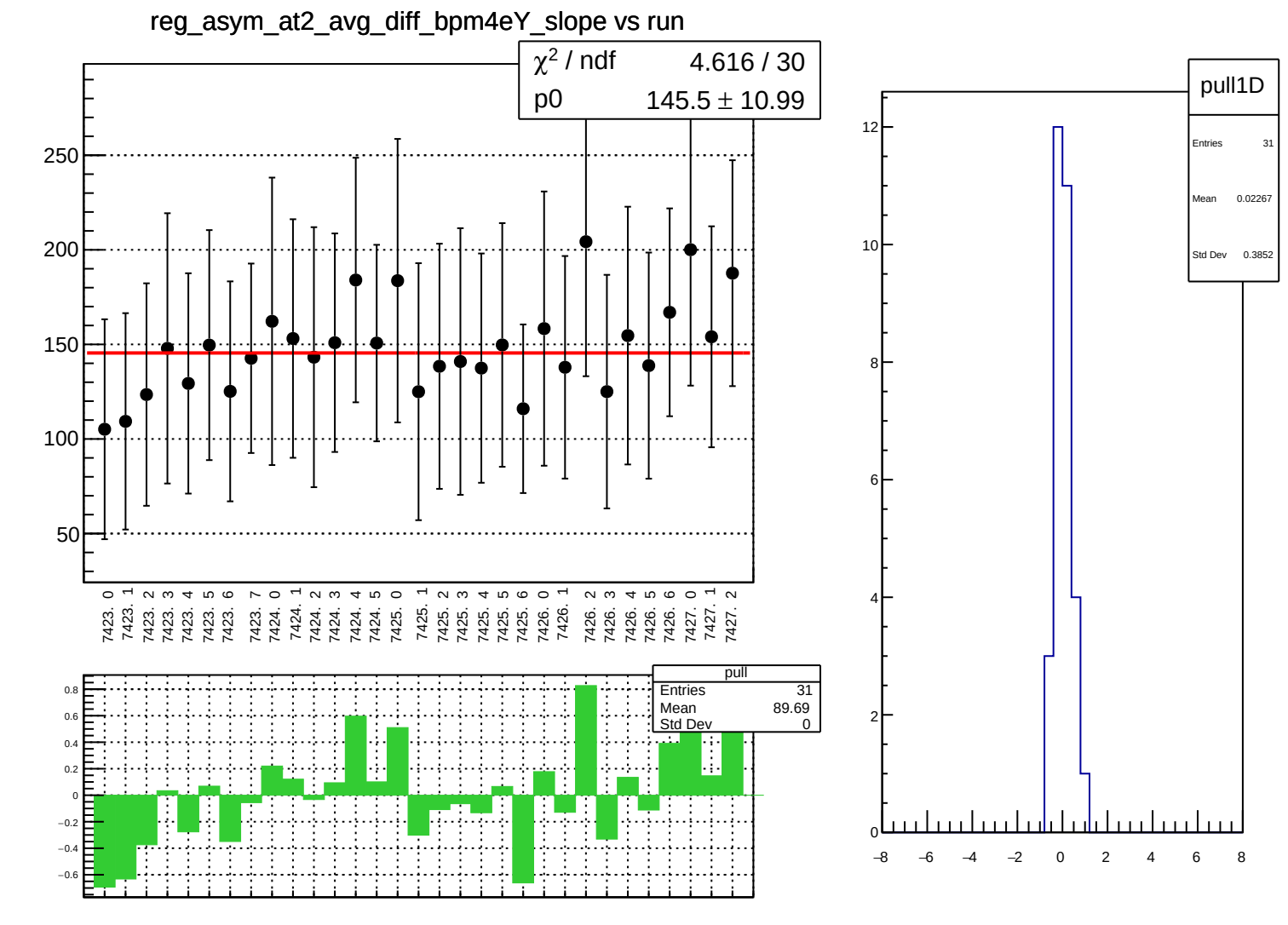

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 16.58 / 30
p0 −341.7 ± 10.86
−200
−250
−300
−350
−400
−450
−500
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −74.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1

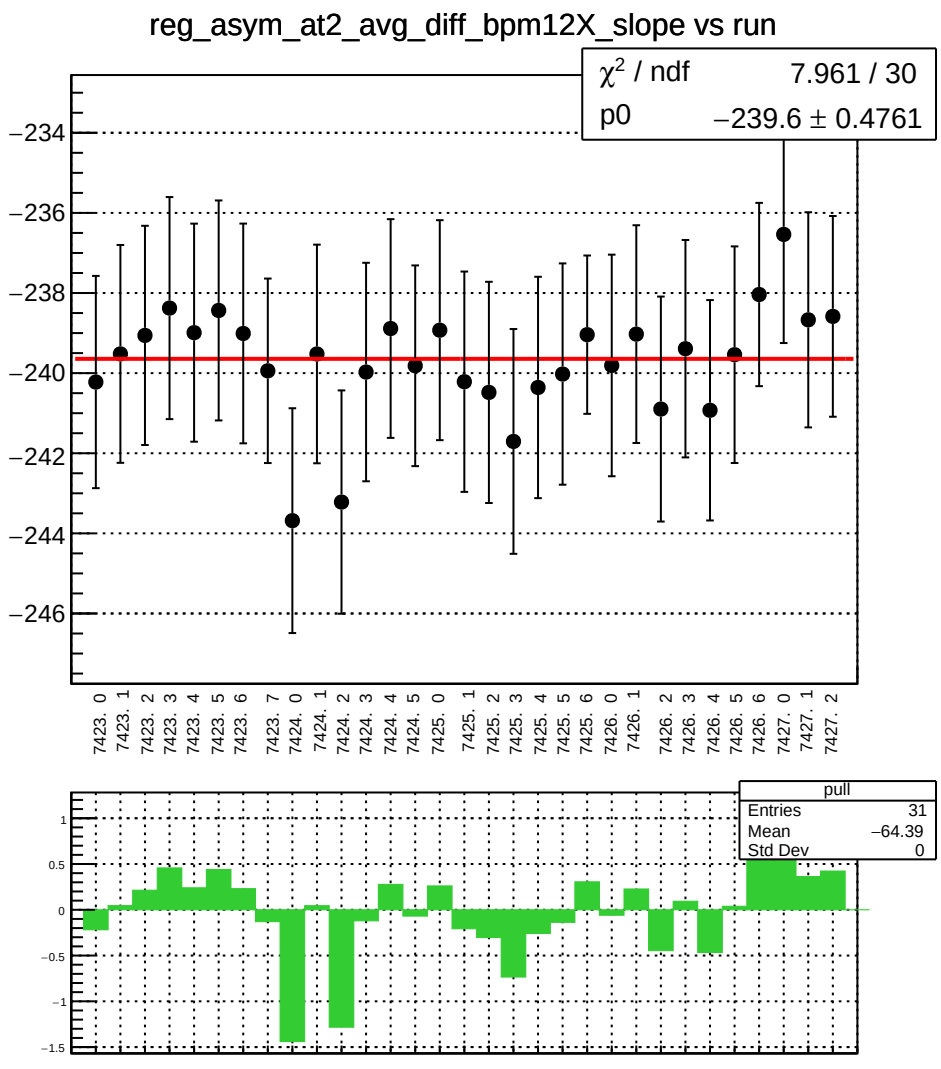

pull1D
Entries 31
Mean −0.04068
Std Dev 0.7302
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

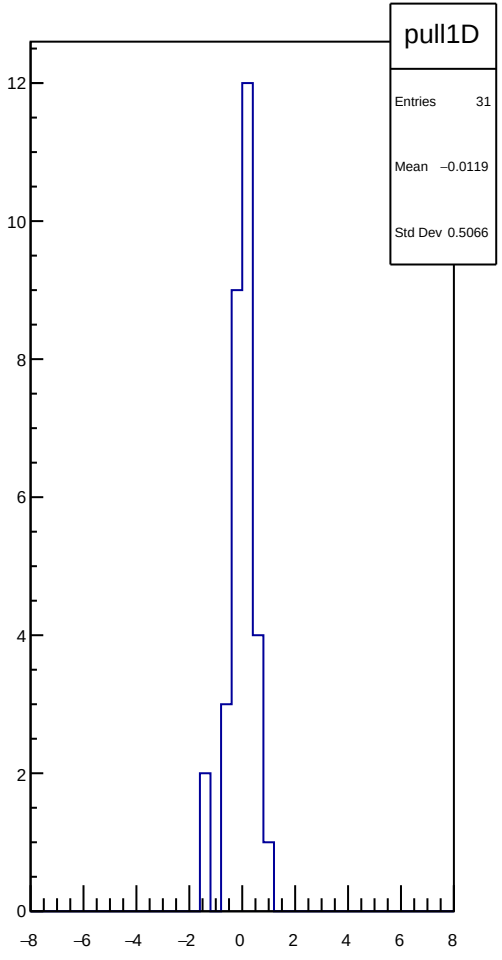

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.978 / 30
p0 −29.49 ± 10.31
50
0
−50
−100
−150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 71.67
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean −0.03459
Std Dev 0.4378
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

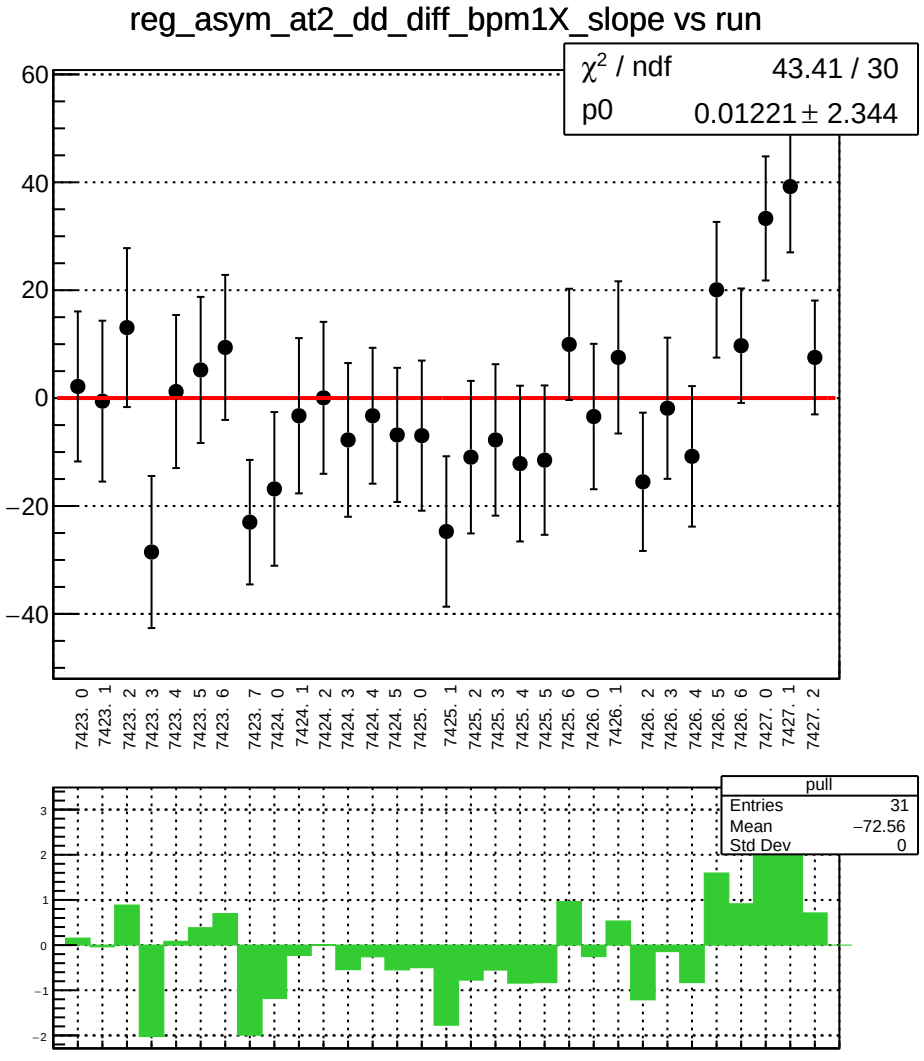

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.57 / 30
p0 370.2 ± 11.22
550
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −82.88
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

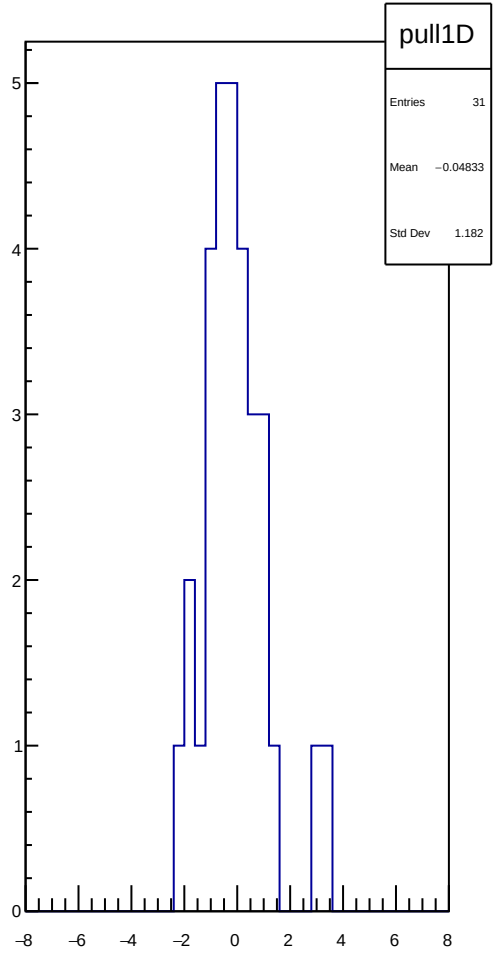

pull1D
Entries 31
Mean 0.03816
Std Dev 0.7302
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

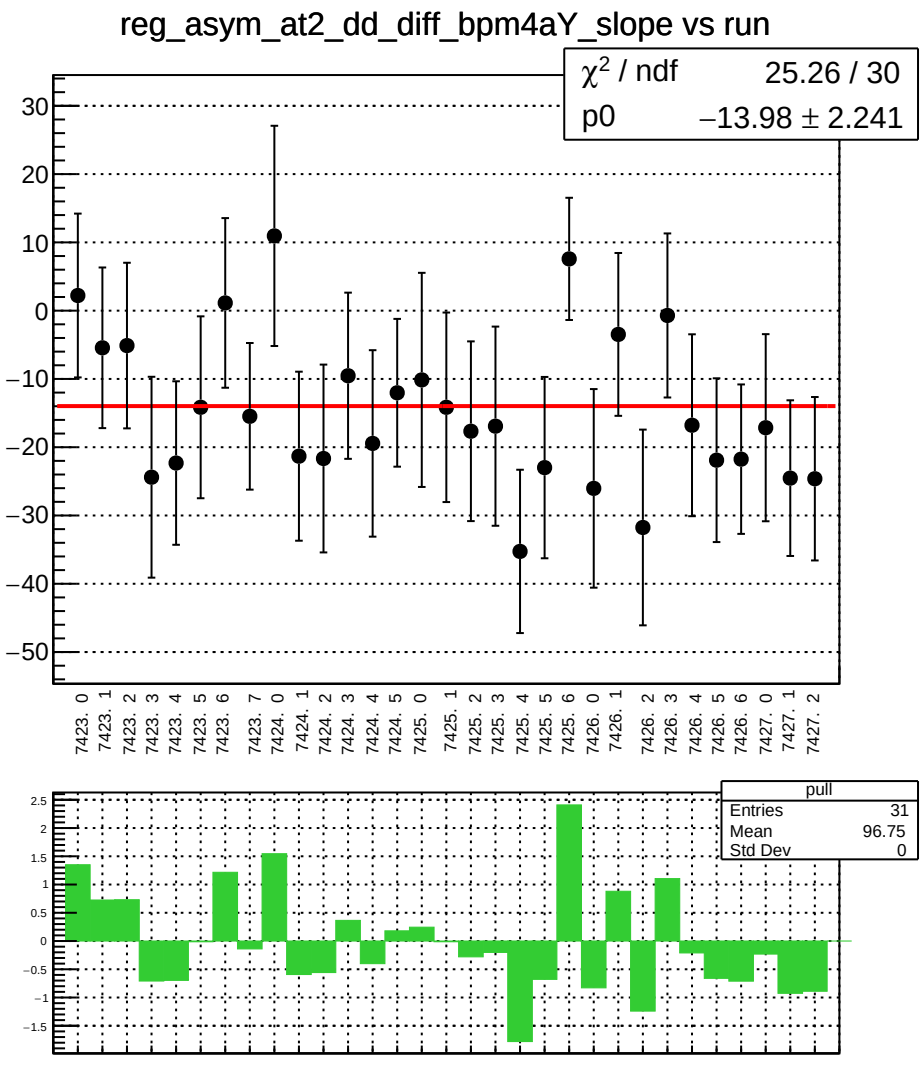

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.616 / 30
p0 145.5 ± 10.99
250
200
150
100
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 89.69
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean 0.02267
Std Dev 0.3852
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

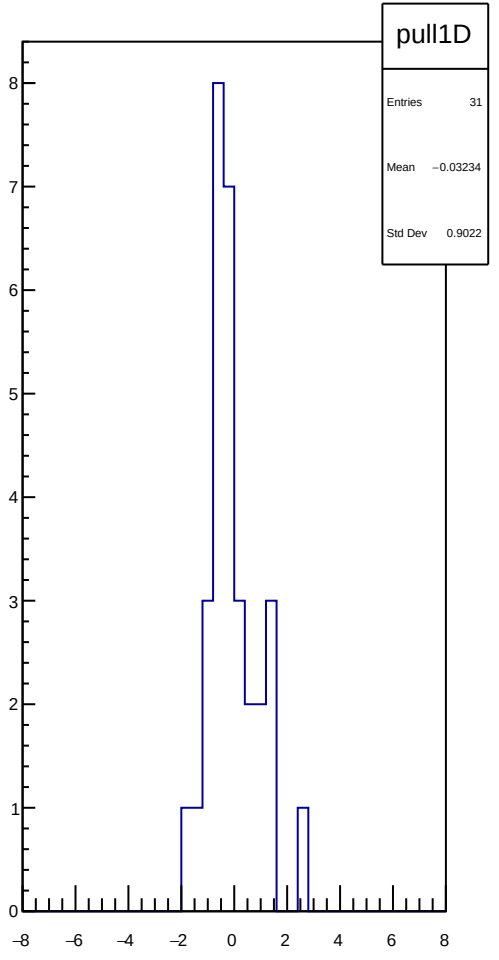

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 7.961 / 30
p0 −239.6 ± 0.4761
−234
−236
−238
−240
−242
−244
−246
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −64.39
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

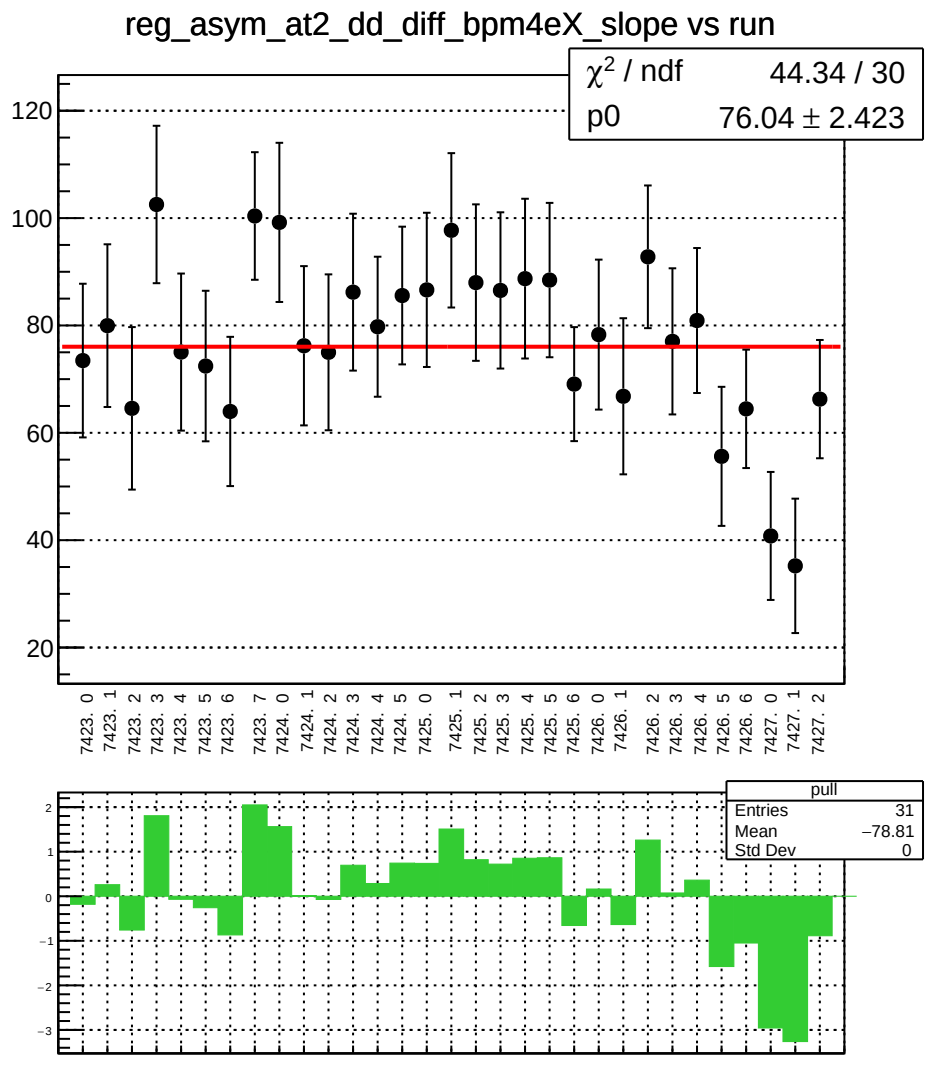

pull1D
Entries 31
Mean −0.0119
Std Dev 0.5066
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

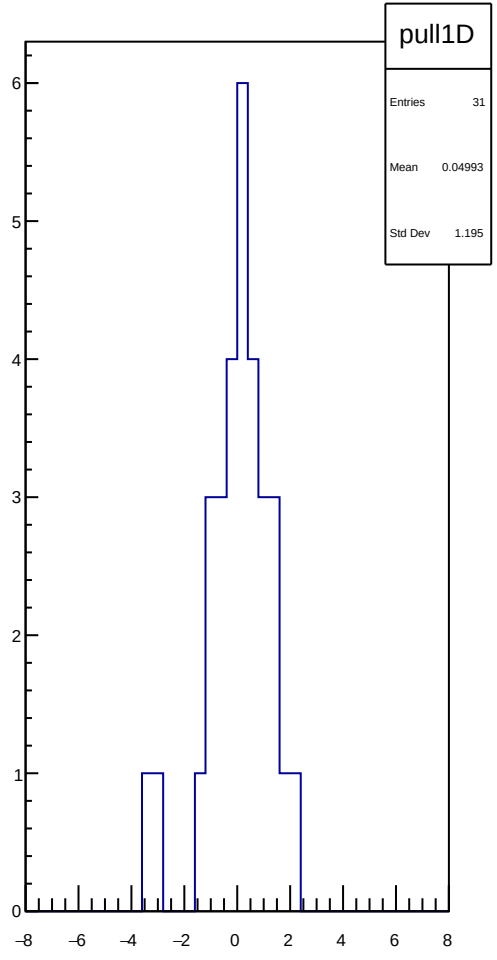

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 43.41 / 30
p0 0.01221 ± 2.344
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −72.56
Std Dev 0
3
2
1
0
−1
−2

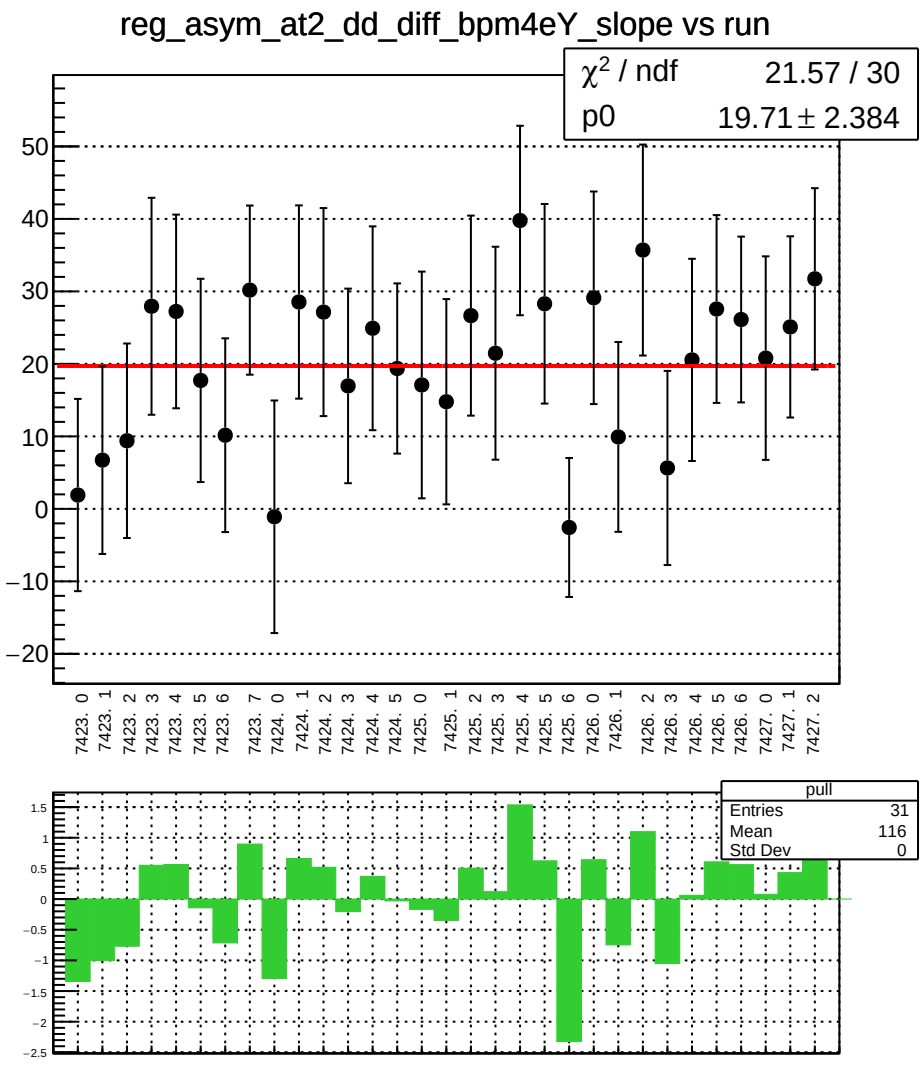

pull1D
Entries 31
Mean −0.04833
Std Dev 1.182
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

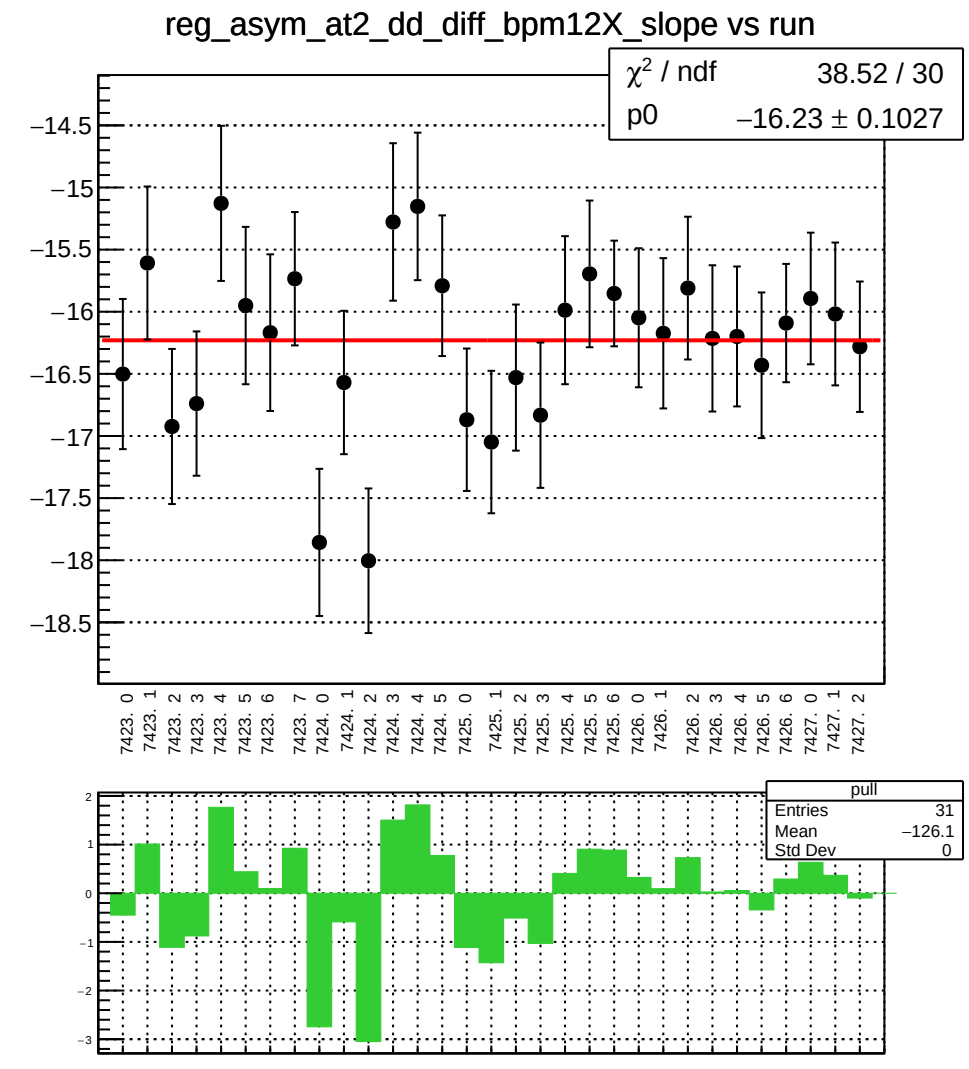

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.26 / 30
p0 −13.98 ± 2.241
30
20
10
0
−10
−20
−30
−40
−50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 96.75
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

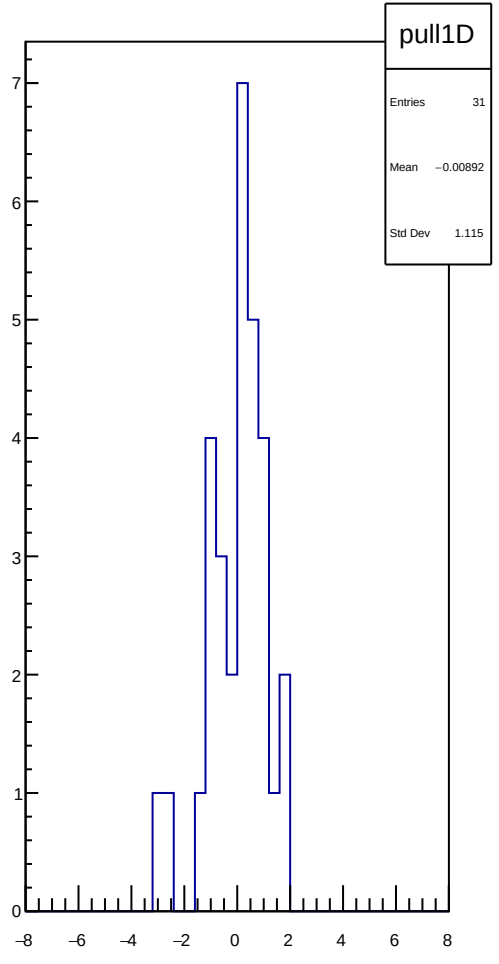

pull1D
Entries 31
Mean −0.03234
Std Dev 0.9022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

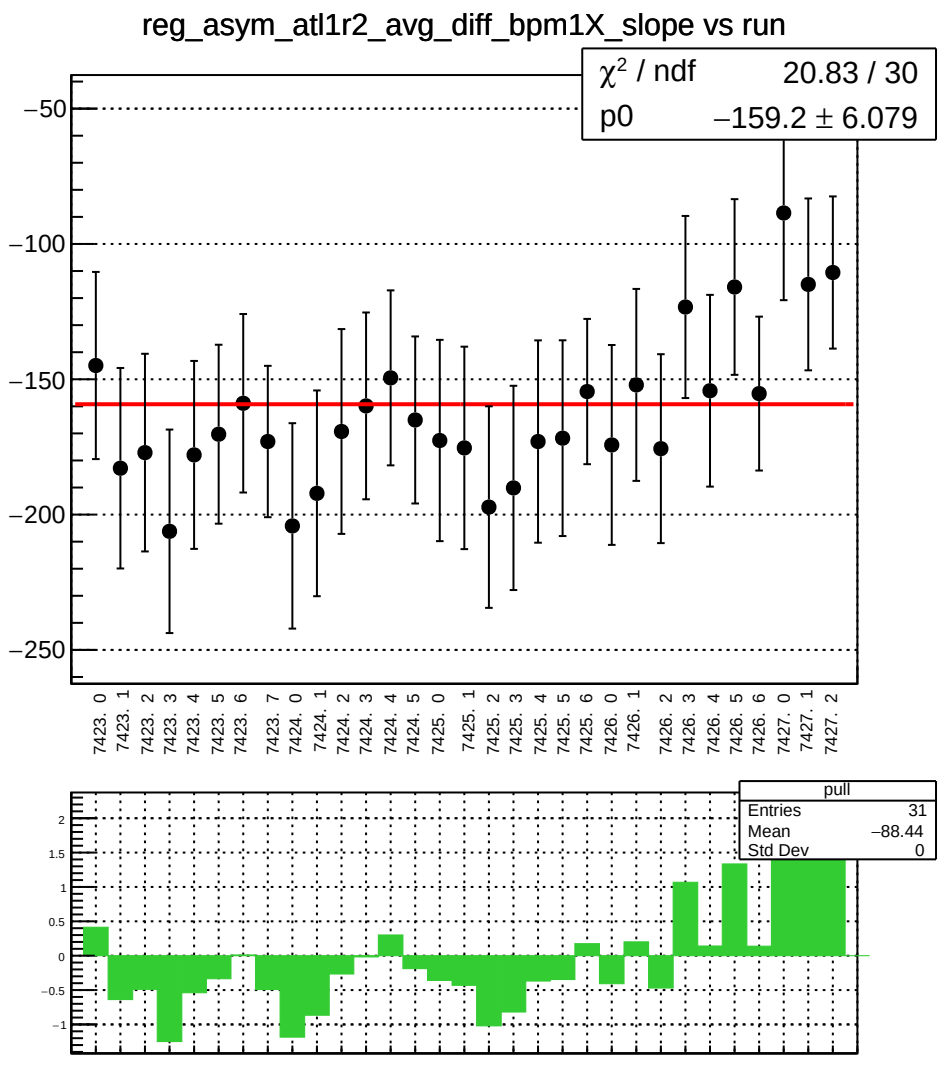

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.34 / 30
p0 76.04 ± 2.423
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −78.81
Std Dev 0
2
1
0
−1
−2
−3

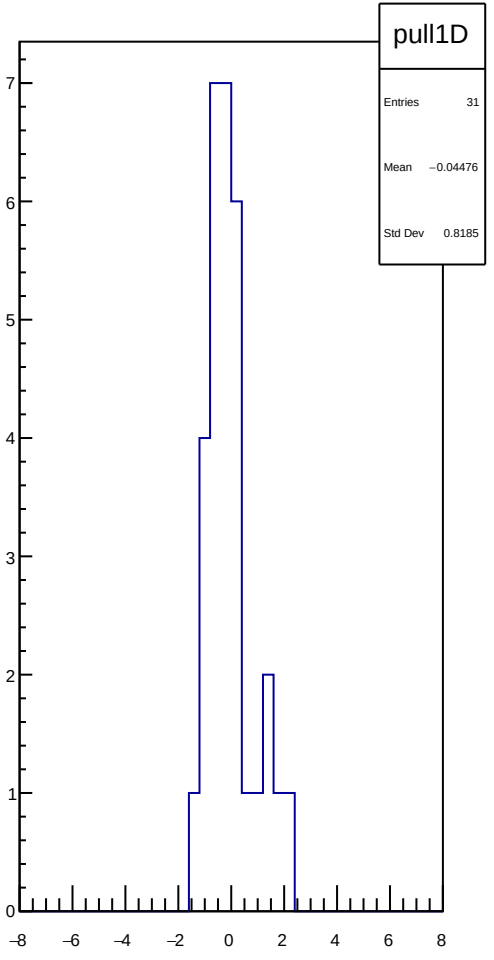

pull1D
Entries 31
Mean 0.04993
Std Dev 1.195
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

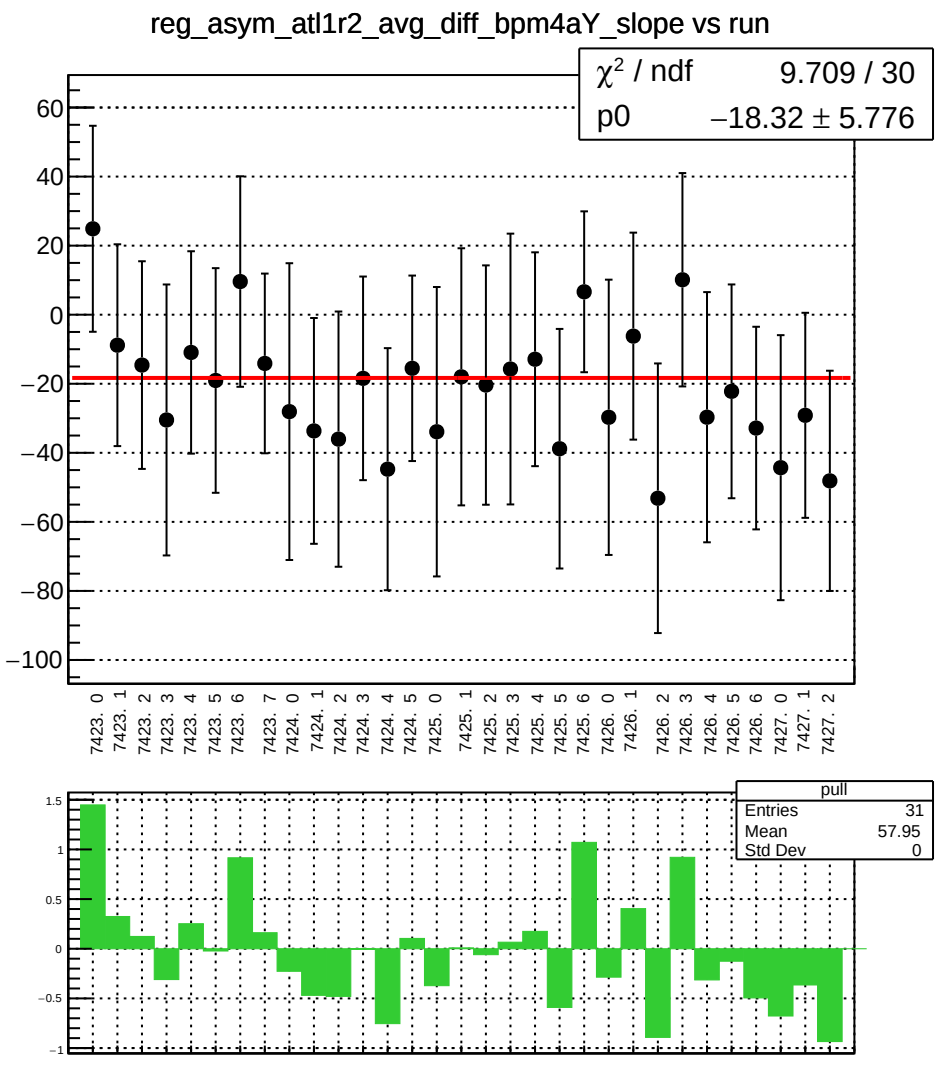

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.57 / 30
p0 19.71 ± 2.384
50
40
30
20
10
0
−10
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 116
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.0206
Std Dev 0.8339
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

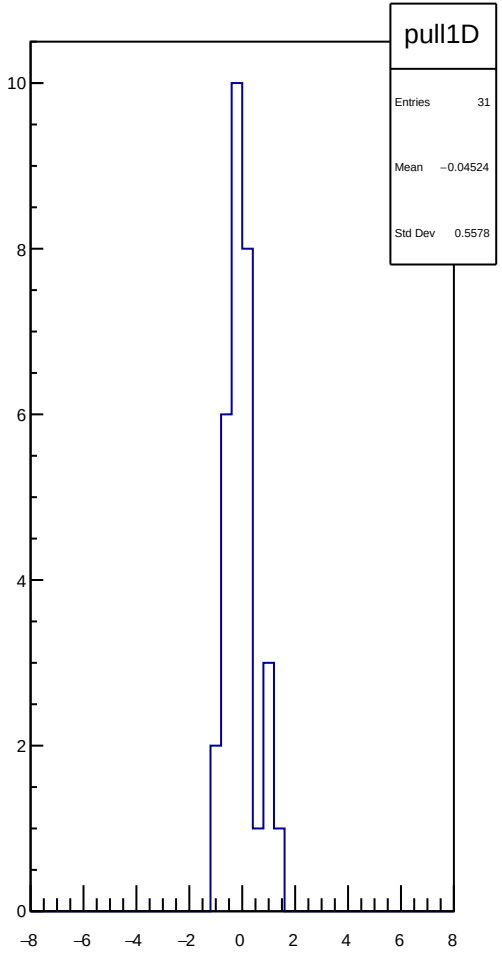

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 38.52 / 30
p0 −16.23 ± 0.1027
pull
Entries 31
Mean −126.1
Std Dev 0

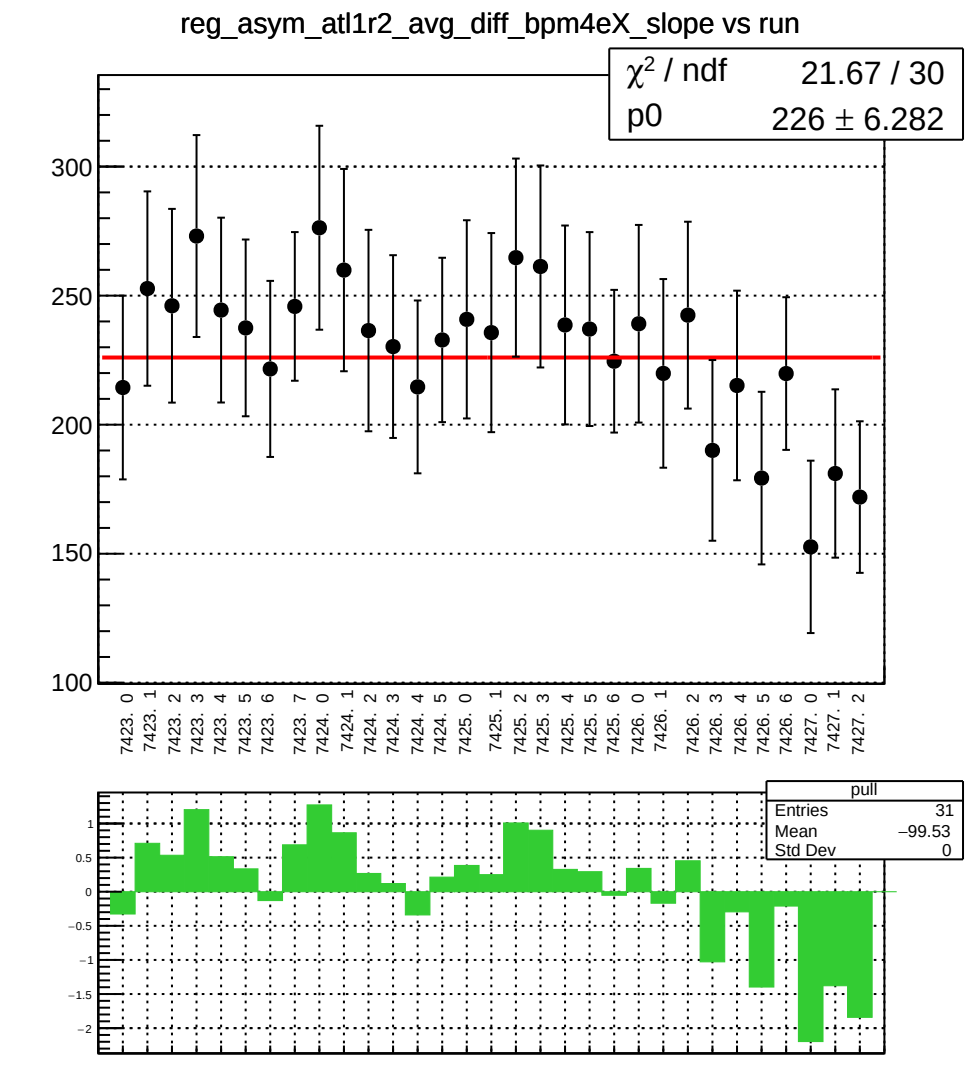

pull1D
Entries 31
Mean −0.00892
Std Dev 1.115

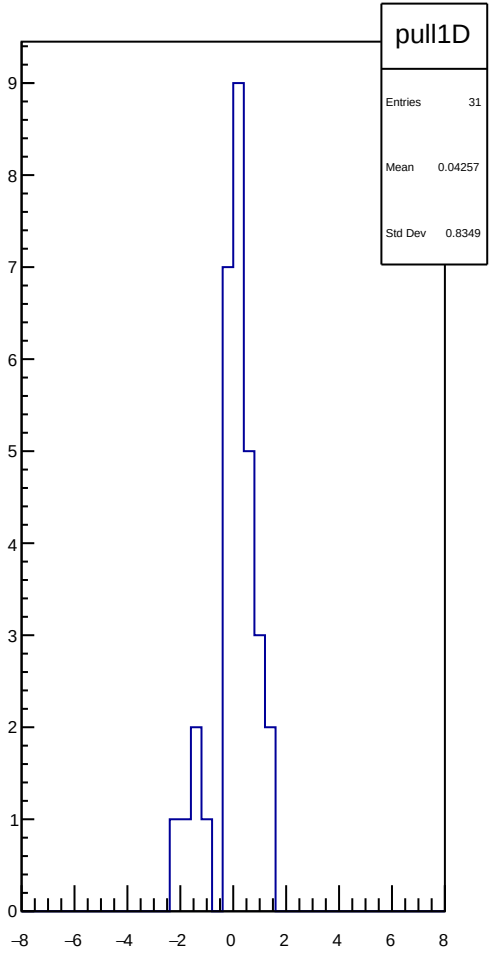

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 20.83 / 30
p0 −159.2 ± 6.079
−50
−100
−150
−200
−250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −88.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

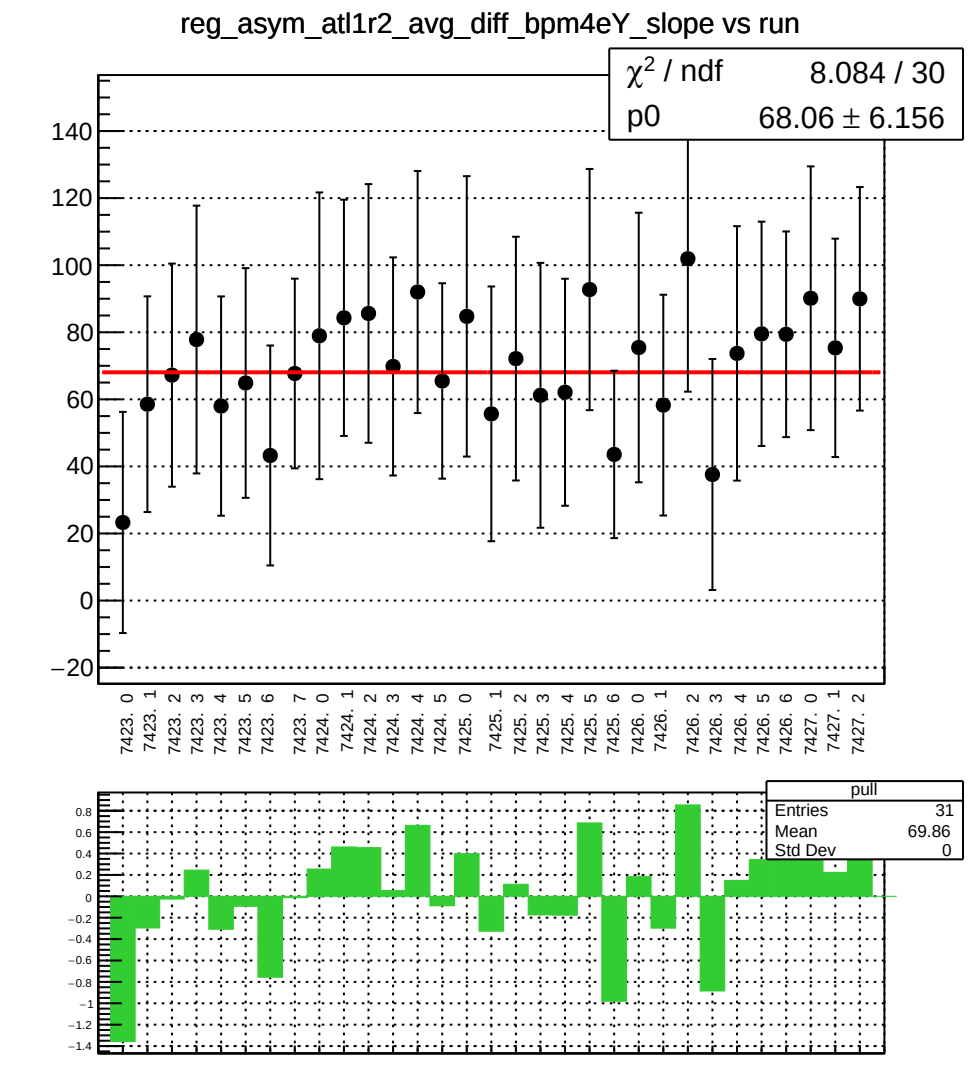

pull1D
Entries 31
Mean −0.04476
Std Dev 0.8185
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

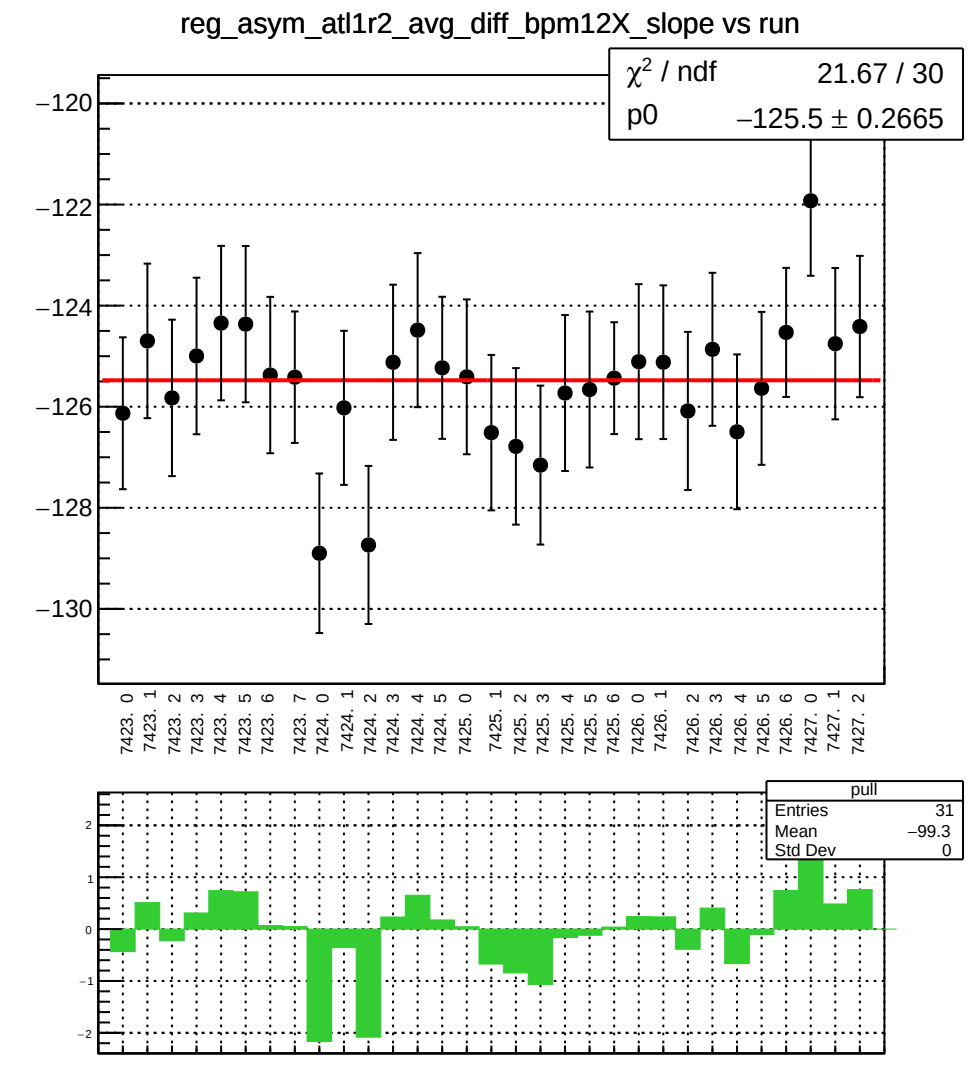

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.709 / 30
p0 −18.32 ± 5.776
pull
Entries 31
Mean 57.95
Std Dev 0

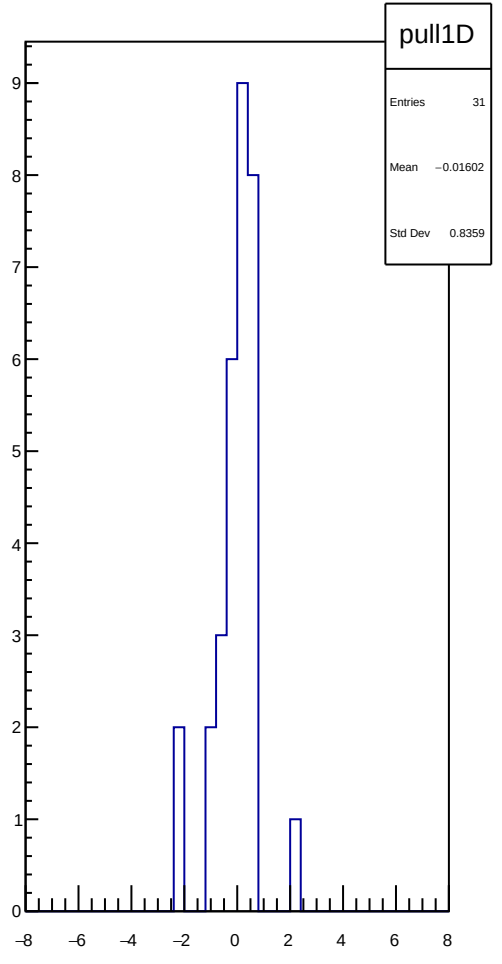

pull1D
Entries 31
Mean −0.04524
Std Dev 0.5578

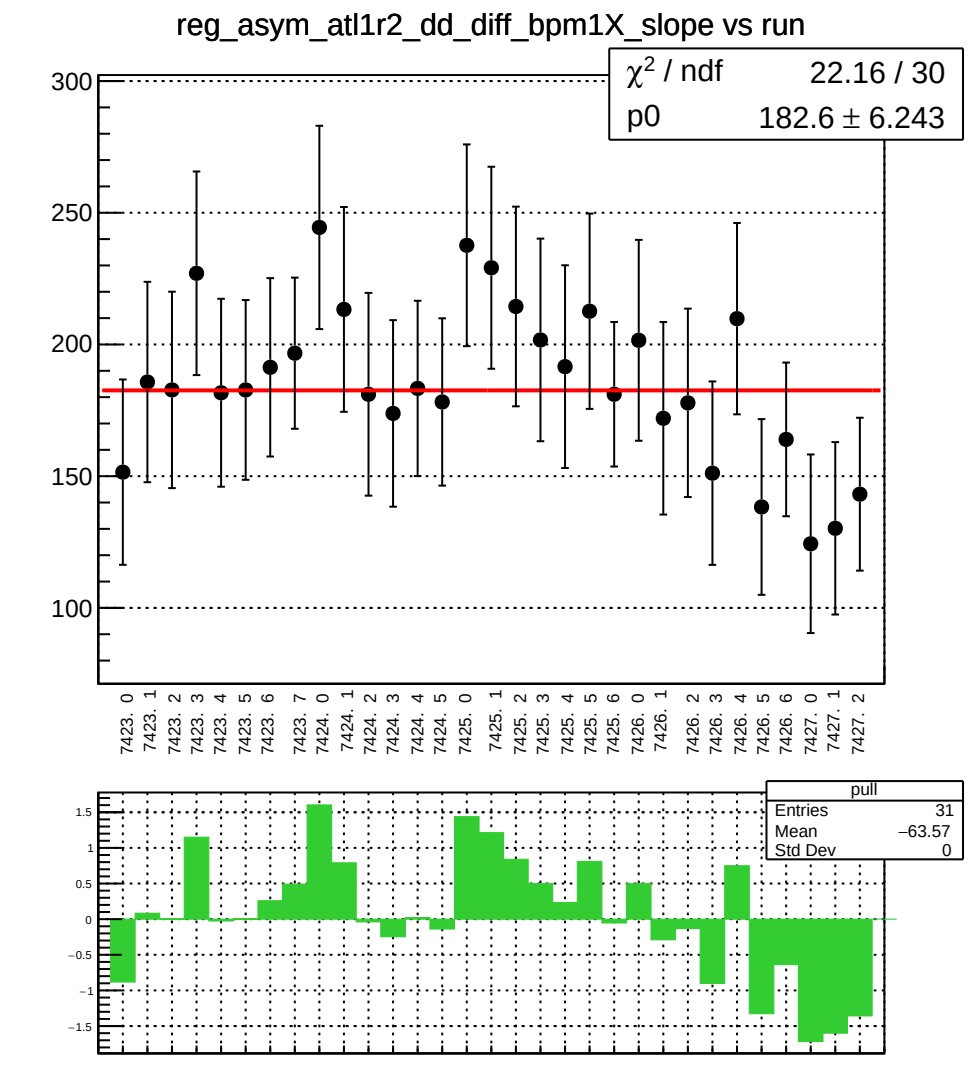

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.67 / 30
p0 226 ± 6.282
300
250
200
150
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −99.53
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

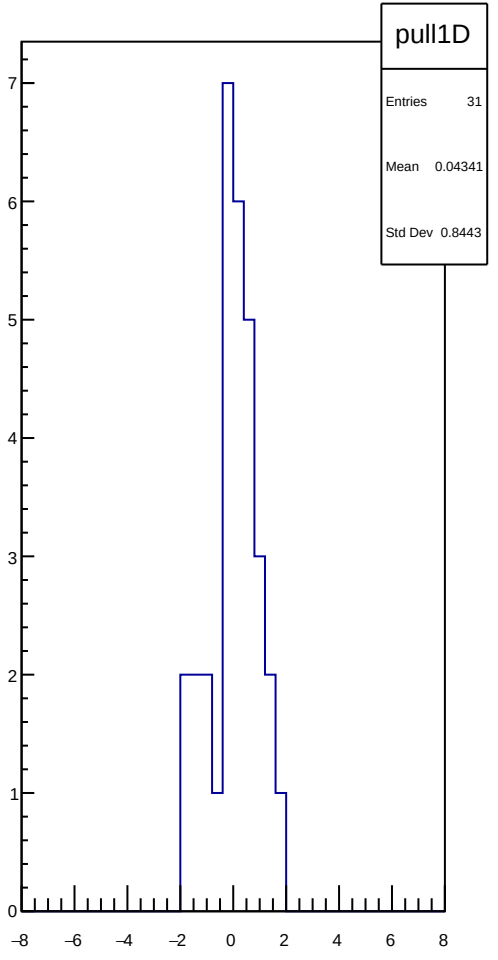

pull1D
Entries 31
Mean 0.04257
Std Dev 0.8349
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

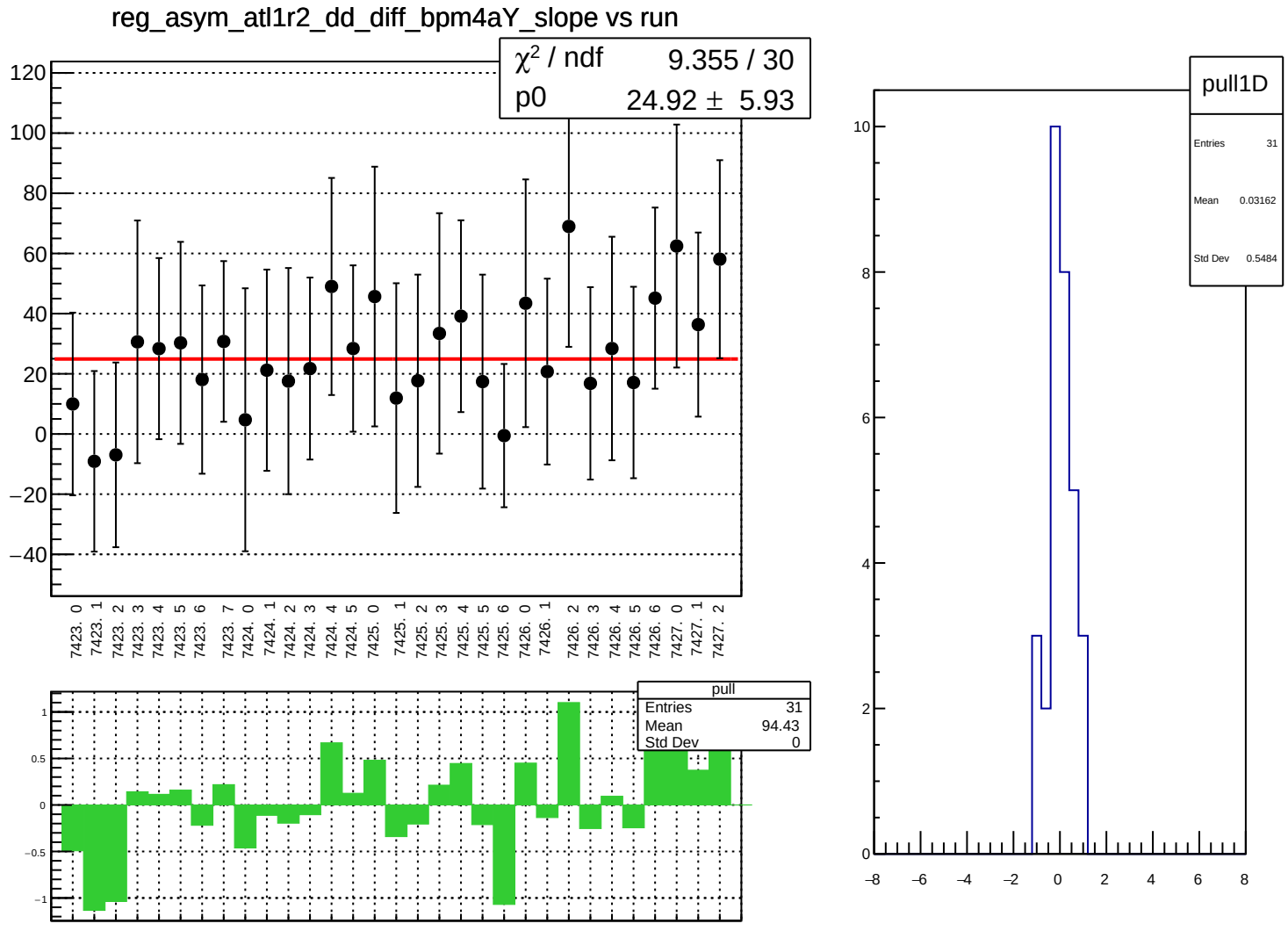

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.084 / 30
p0 68.06 ± 6.156
140
120
100
80
60
40
20
0
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 69.86
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 31
Mean 0.02898
Std Dev 0.5099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

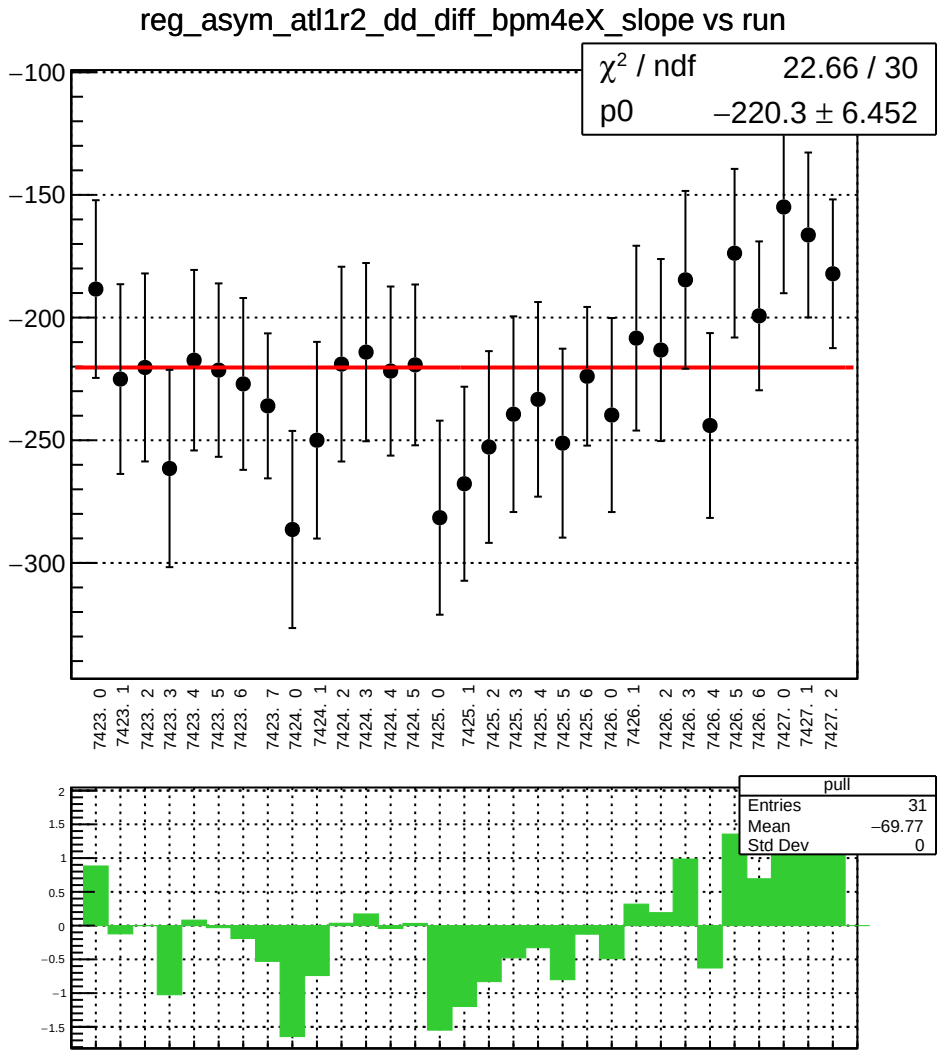

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 21.67 / 30
p0 −125.5 ± 0.2665
−120
−122
−124
−126
−128
−130
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −99.3
Std Dev 0
2
1
0
−1
−2

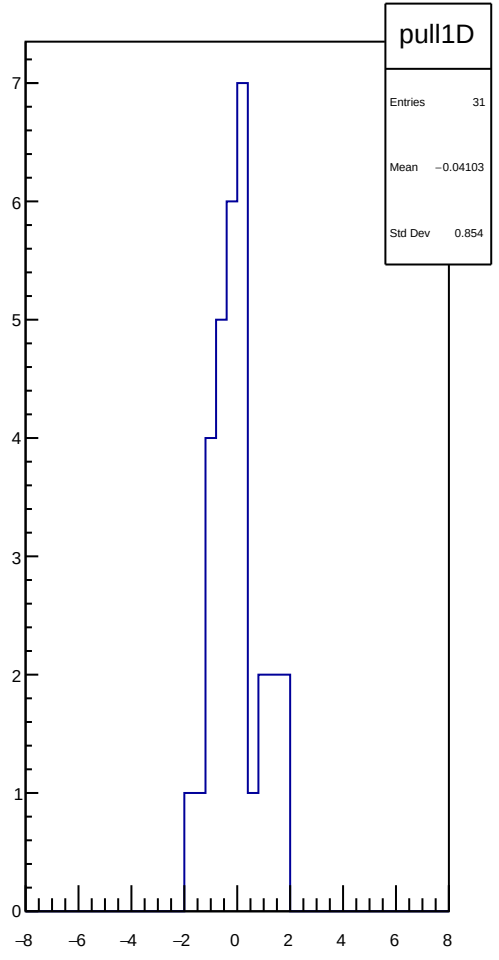

pull1D
Entries 31
Mean −0.01602
Std Dev 0.8359
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

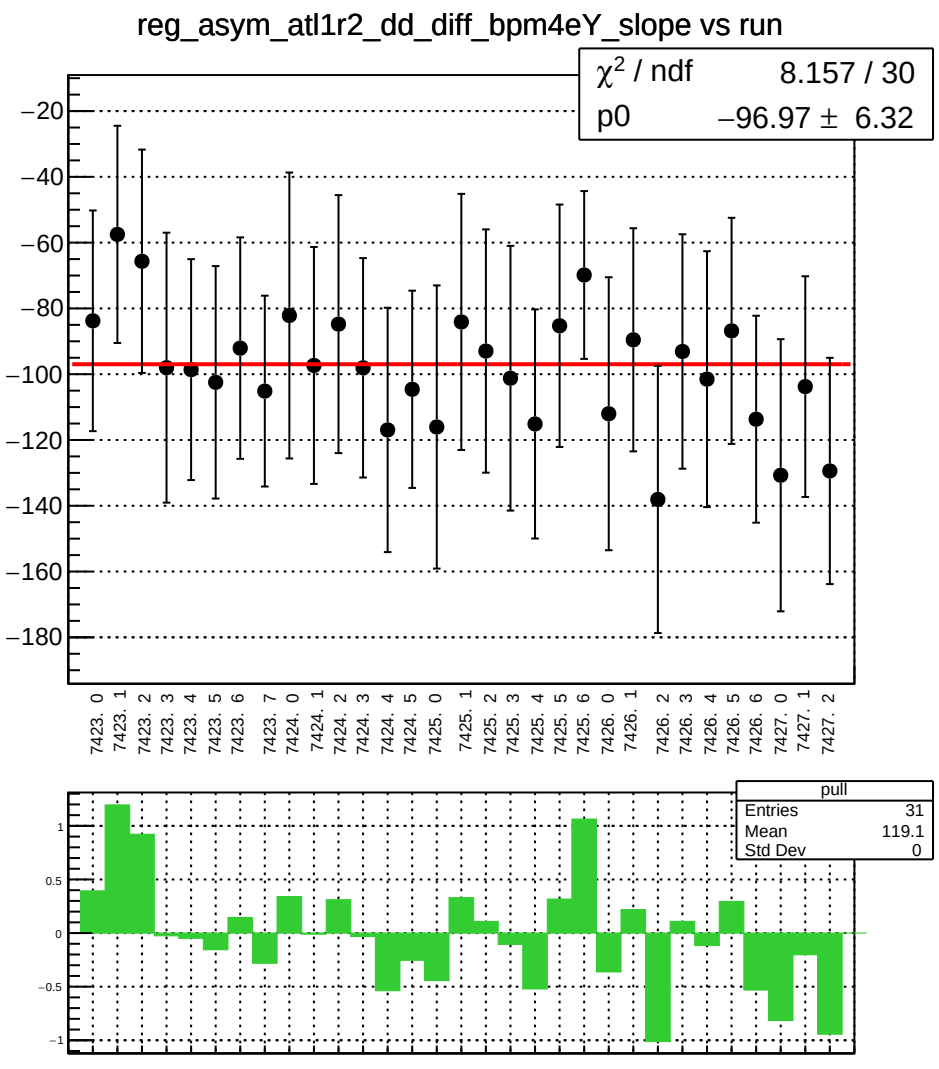

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 22.16 / 30
p0 182.6 ± 6.243
300
250
200
150
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −63.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

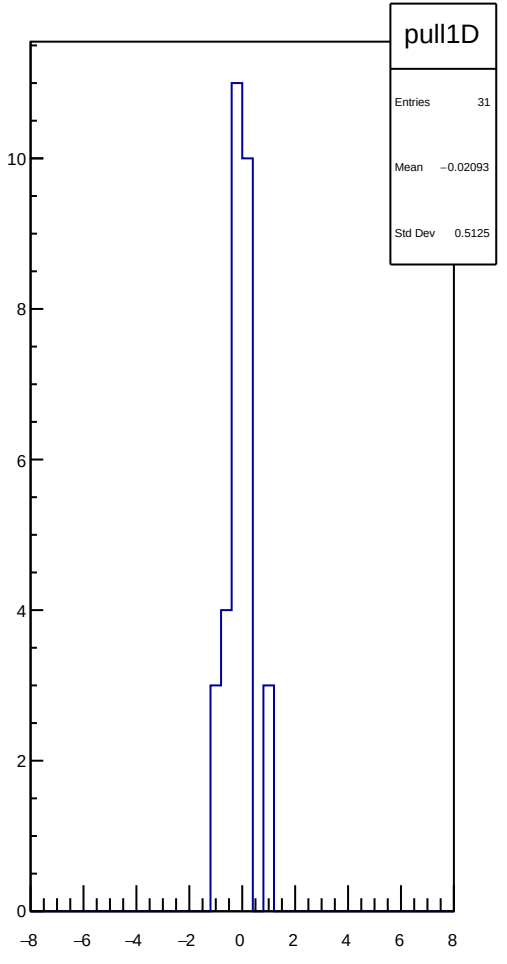

pull1D
Entries 31
Mean 0.04341
Std Dev 0.8443
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

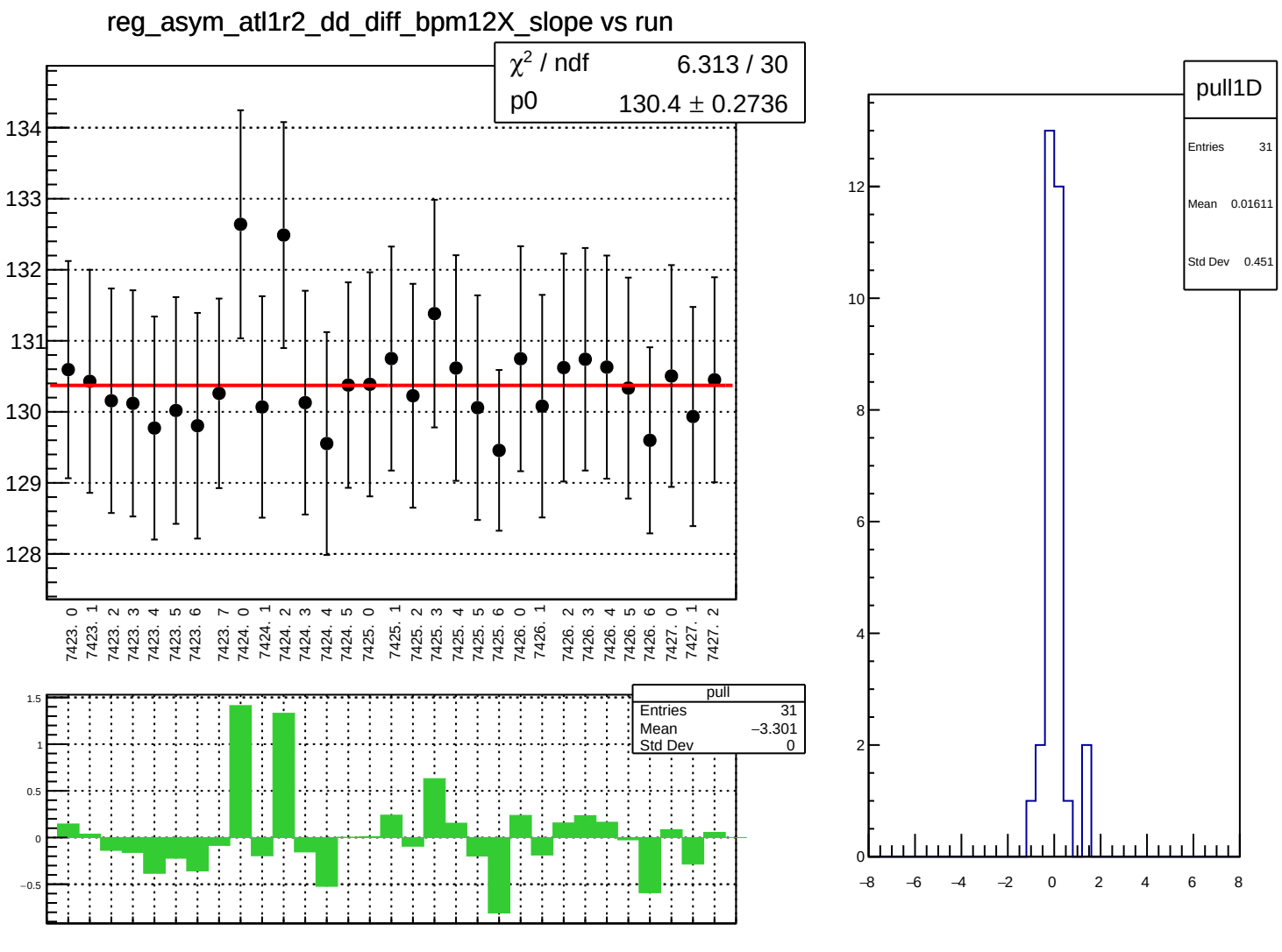

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.355 / 30
p0 24.92 ± 5.93
120
100
80
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 94.43
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.03162
Std Dev 0.5484
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

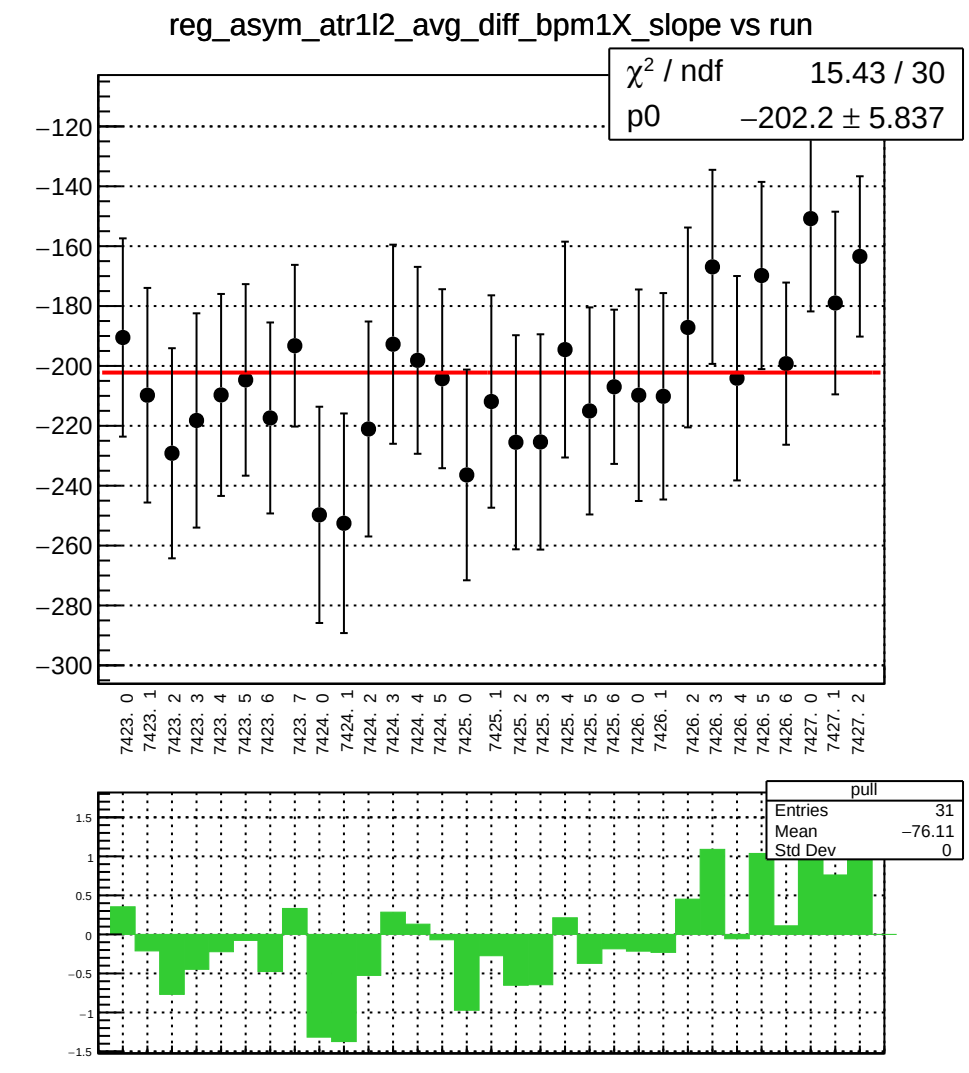

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.66 / 30
p0 −220.3 ± 6.452
−100
−150
−200
−250
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −69.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

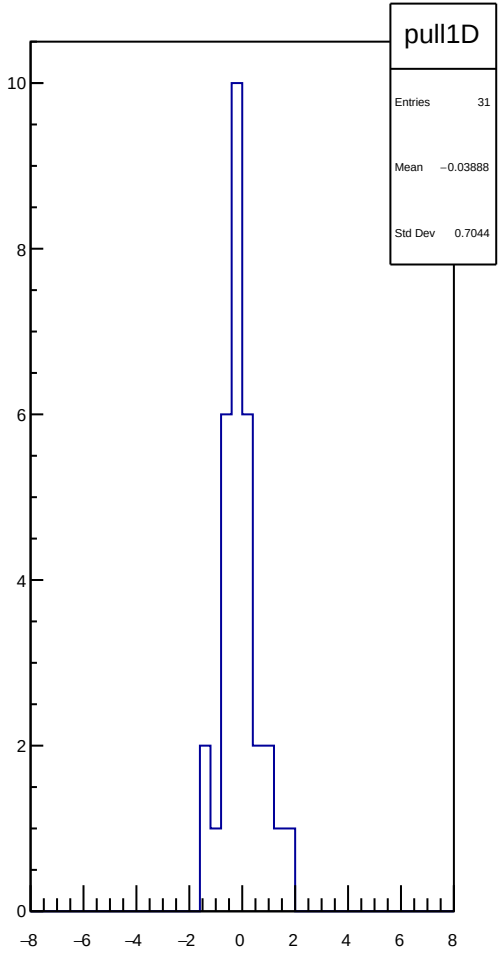

pull1D
Entries 31
Mean −0.04103
Std Dev 0.854
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

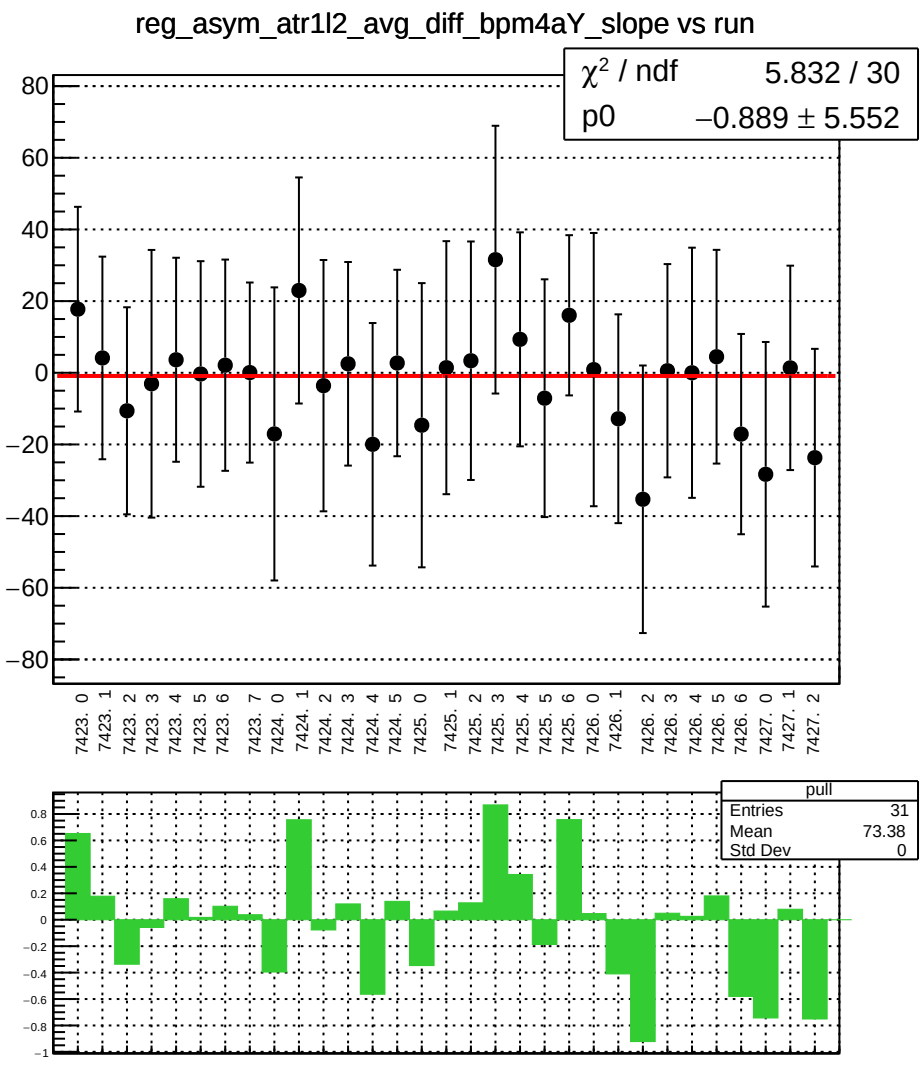

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.157 / 30
p0 −96.97 ± 6.32
−20
−40
−60
−80
−100
−120
−140
−160
−180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 119.1
Std Dev 0
1
0.5
0
−0.5
−1

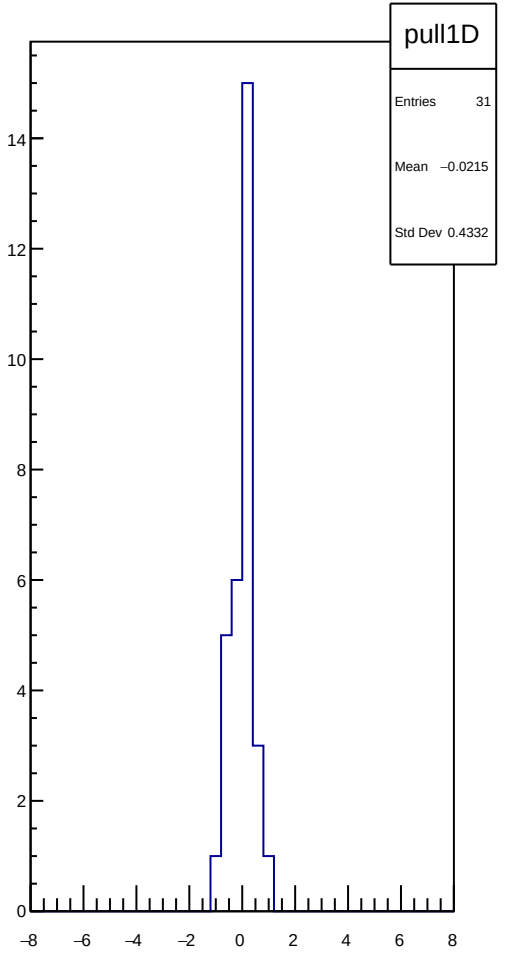

pull1D
Entries 31
Mean −0.02093
Std Dev 0.5125
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

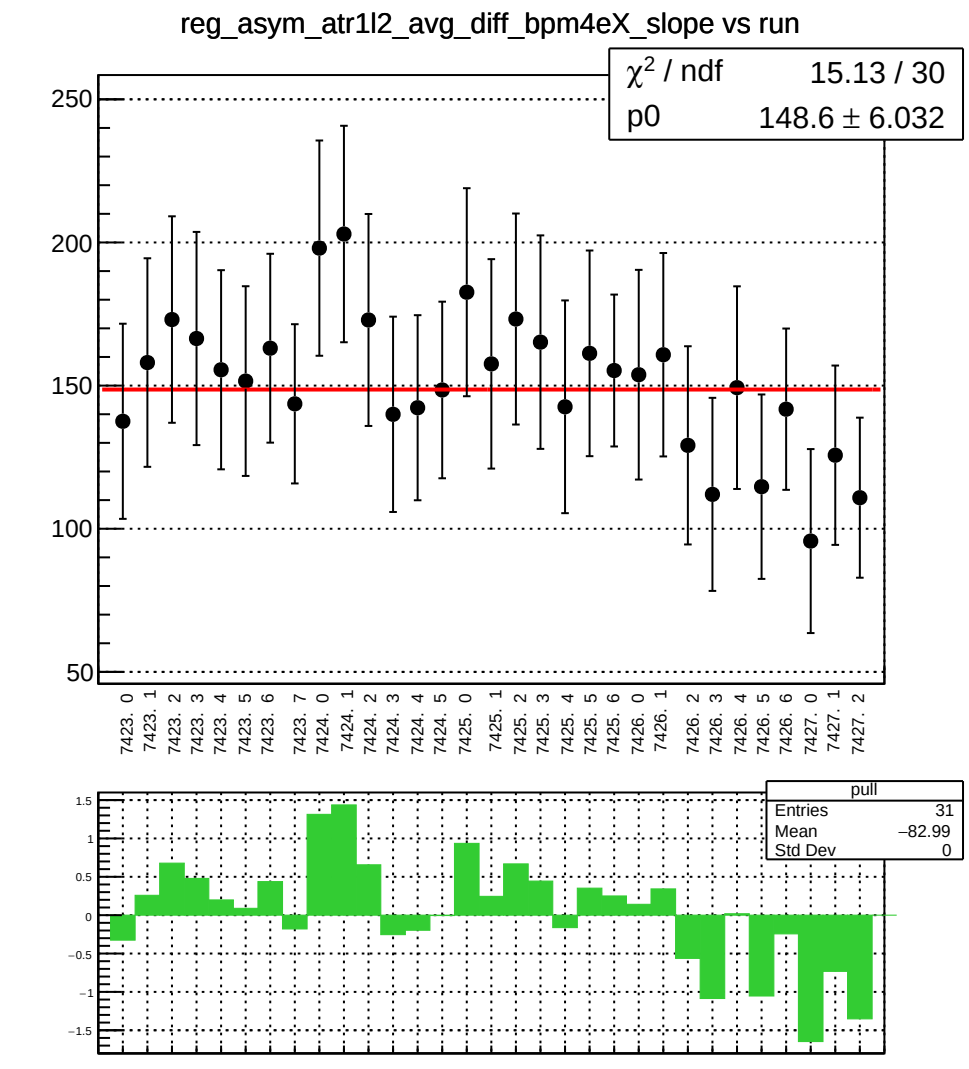

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 6.313 / 30
p0 130.4 ± 0.2736
134
133
132
131
130
129
128
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −3.301
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 31
Mean 0.01611
Std Dev 0.451
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

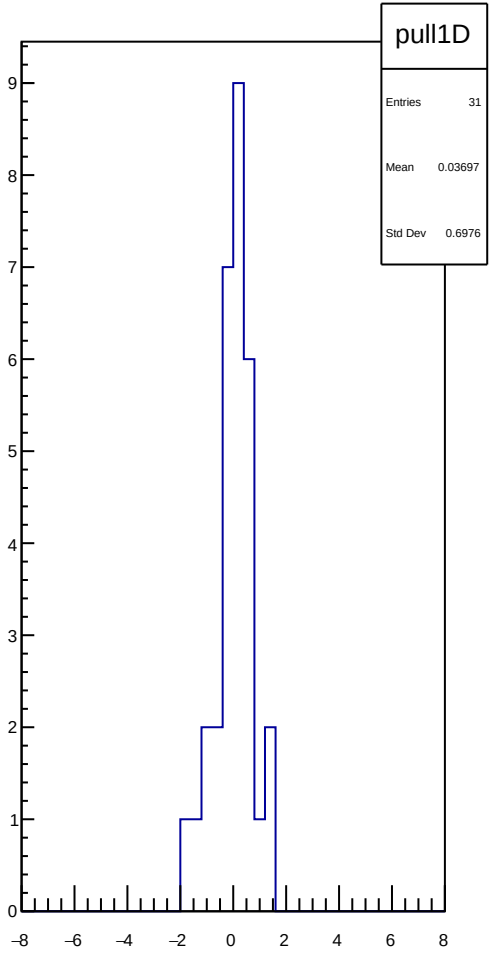

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 15.43 / 30
p0 −202.2 ± 5.837
pull
Entries 31
Mean −76.11
Std Dev 0

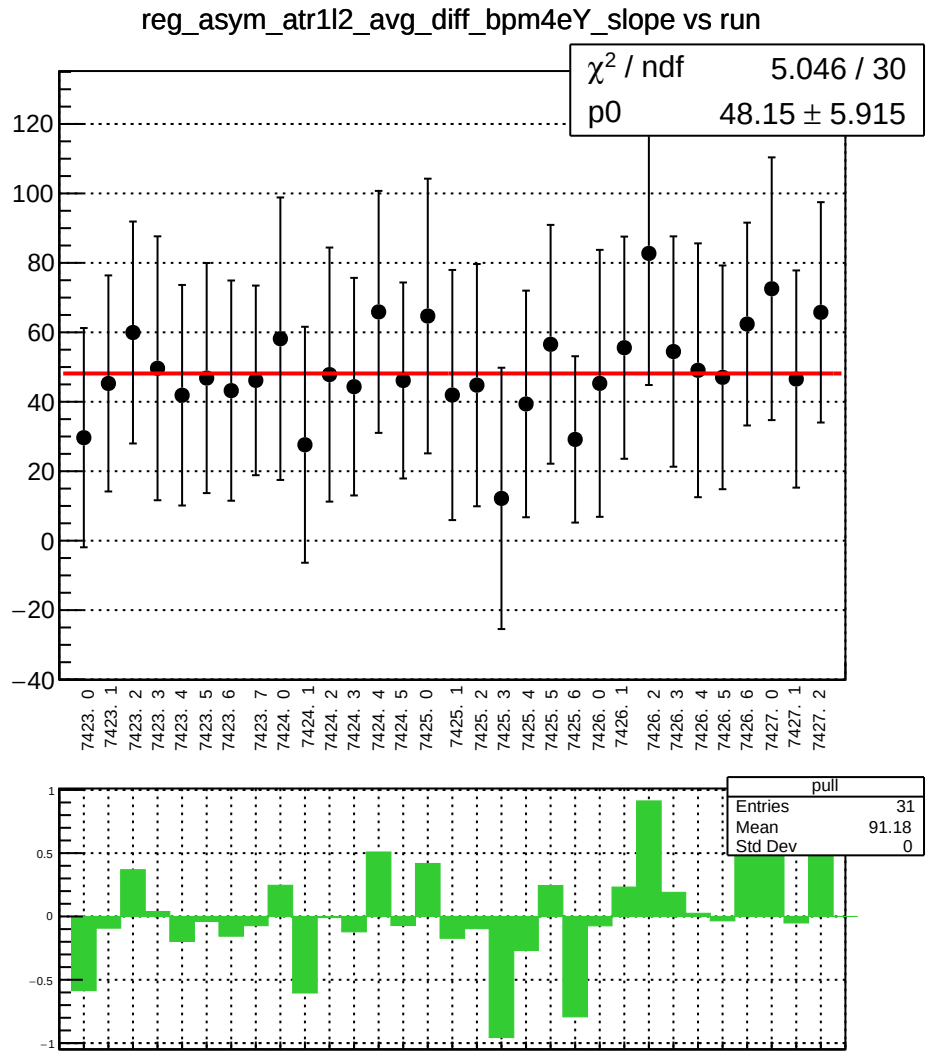

pull1D
Entries 31
Mean −0.03888
Std Dev 0.7044

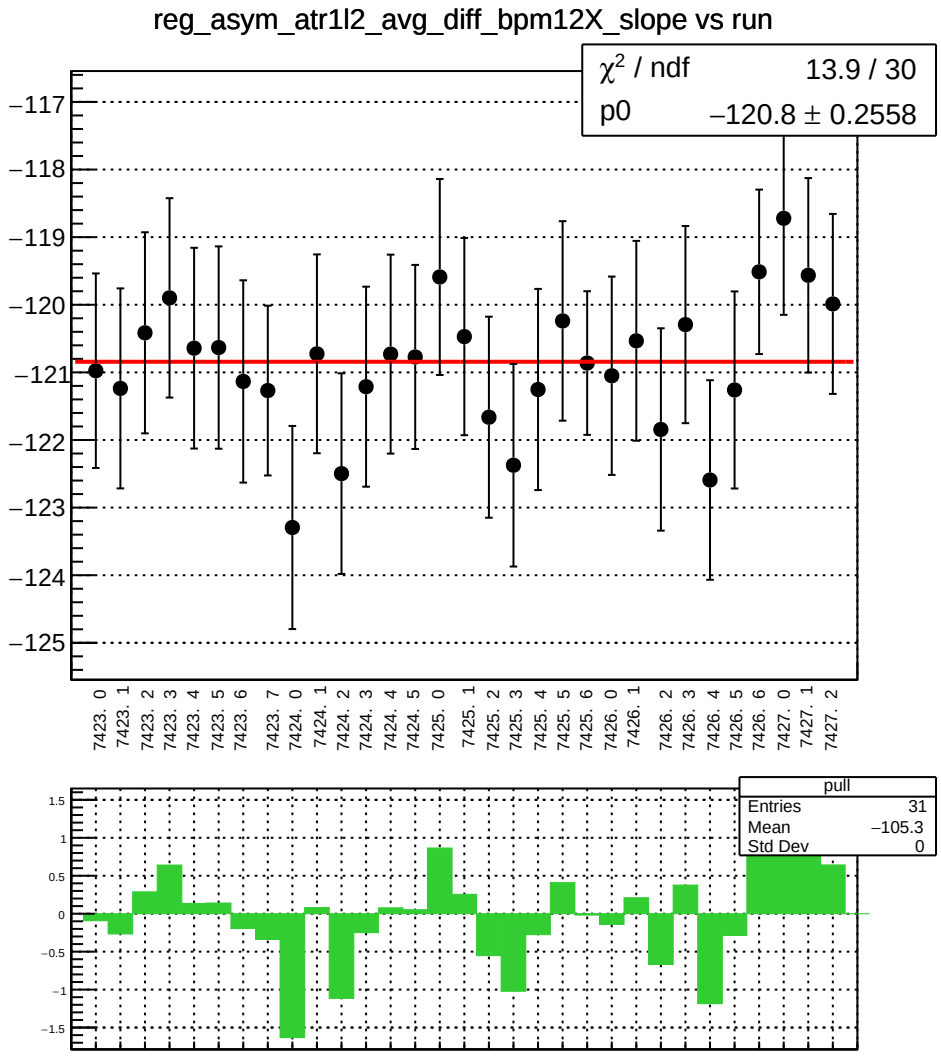

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.832 / 30
p0 −0.889 ± 5.552
80
60
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 73.38
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

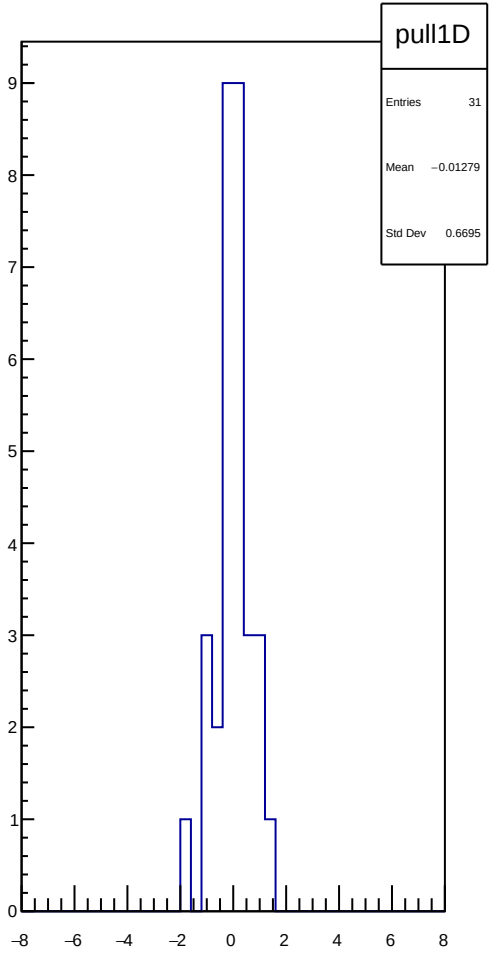

pull1D
Entries 31
Mean −0.0215
Std Dev 0.4332
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

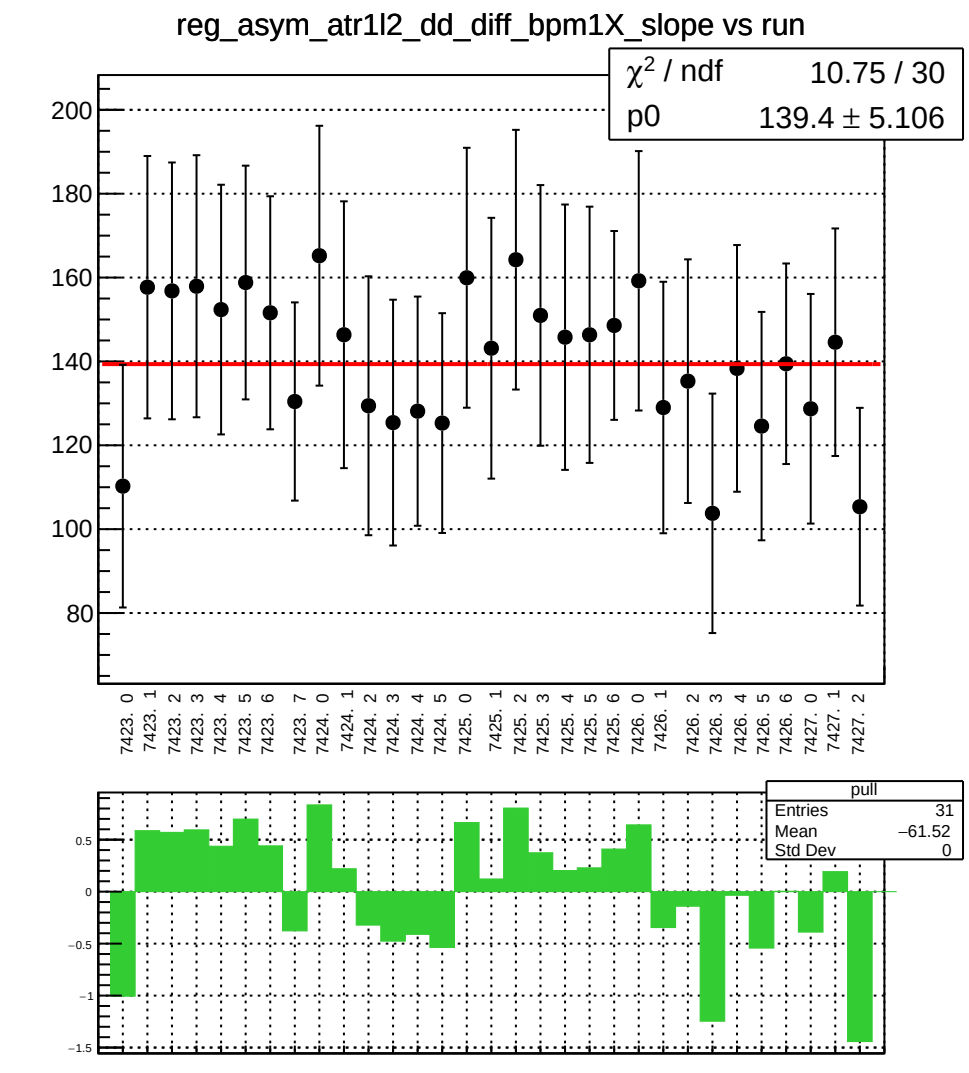

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.13 / 30
p0 148.6 ± 6.032
250
200
150
100
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −82.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

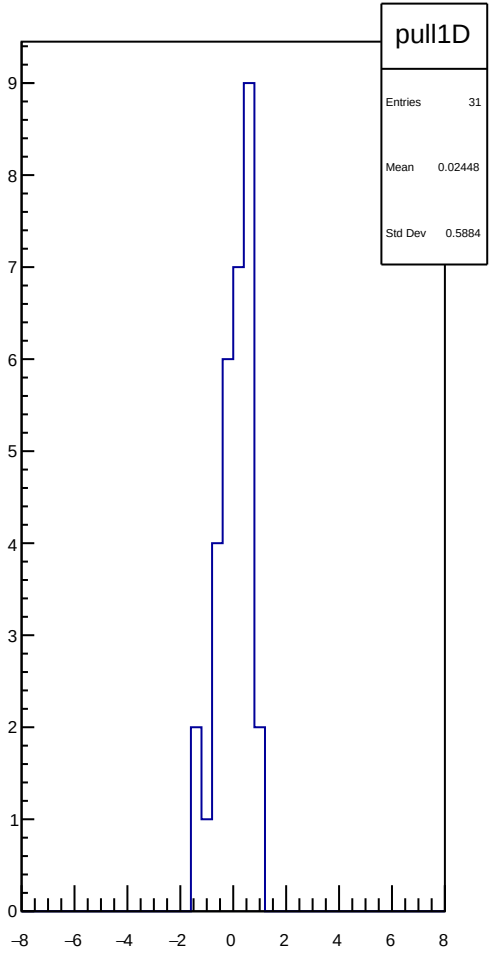

pull1D
Entries 31
Mean 0.03697
Std Dev 0.6976
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

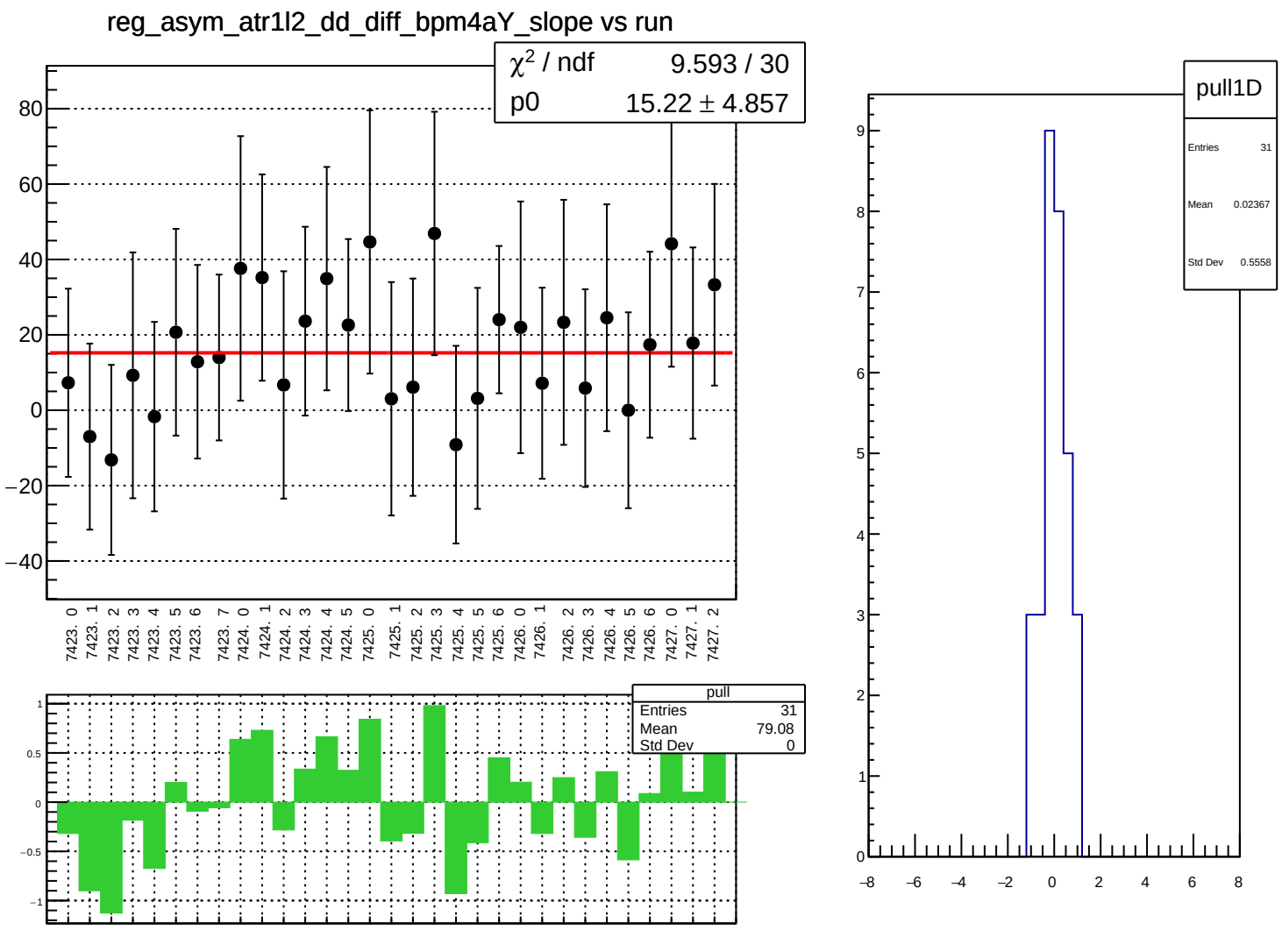

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.046 / 30
p0 48.15 ± 5.915
pull
Entries 31
Mean 91.18
Std Dev 0
pull1D
Entries 31
Mean 0.01538
Std Dev 0.4032

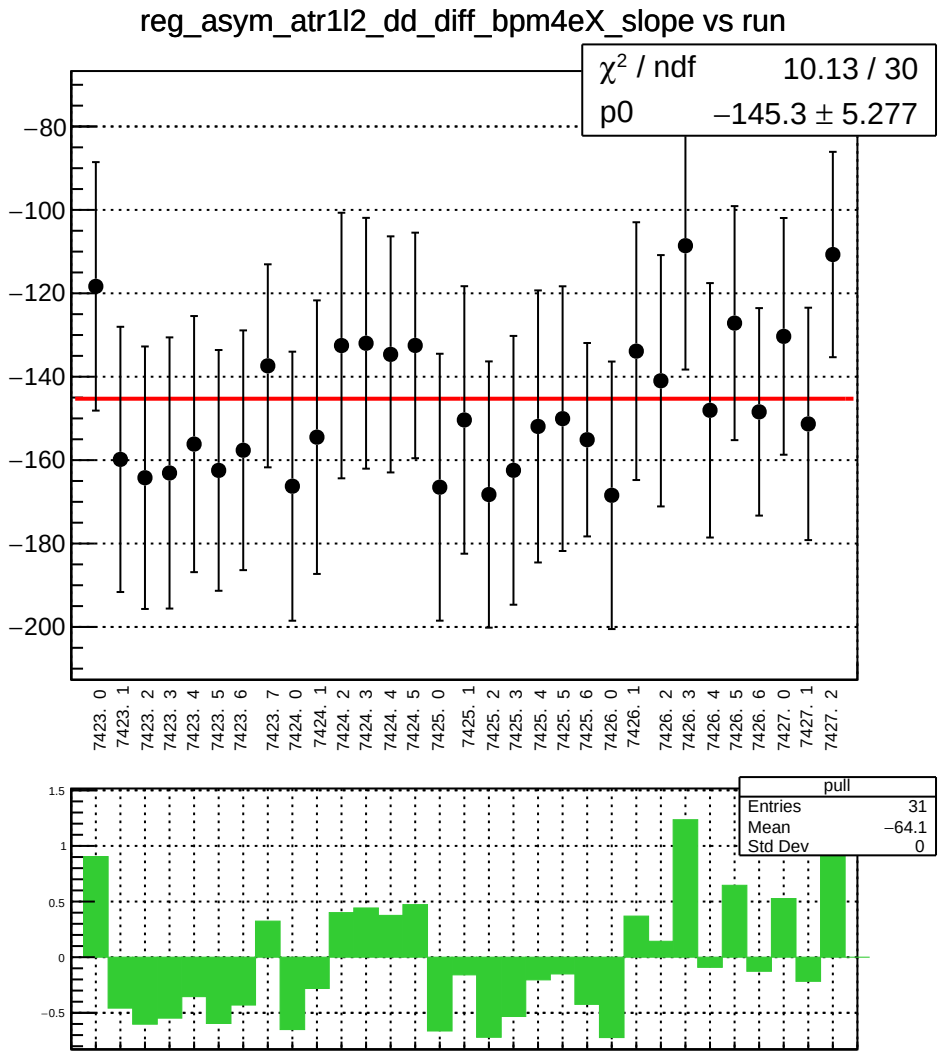

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.9 / 30
p0 −120.8 ± 0.2558
−117
−118
−119
−120
−121
−122
−123
−124
−125
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −105.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

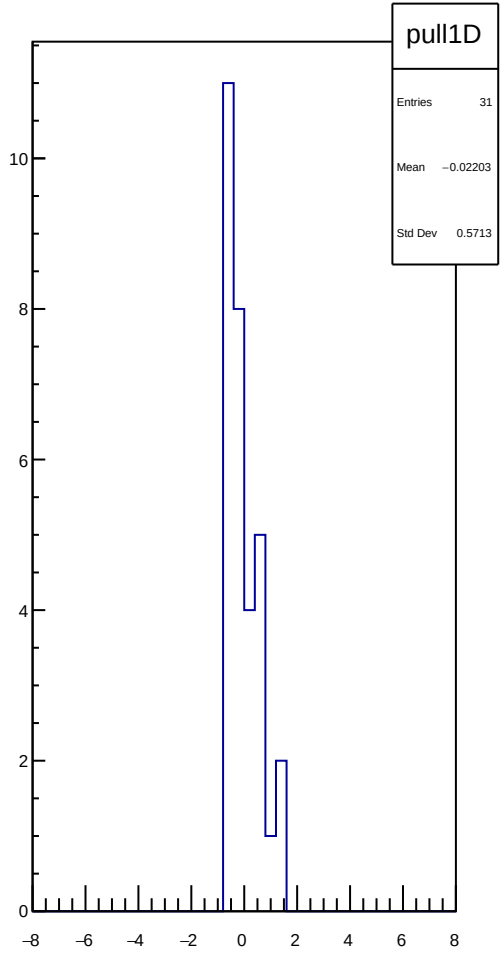

pull1D
Entries 31
Mean −0.01279
Std Dev 0.6695
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

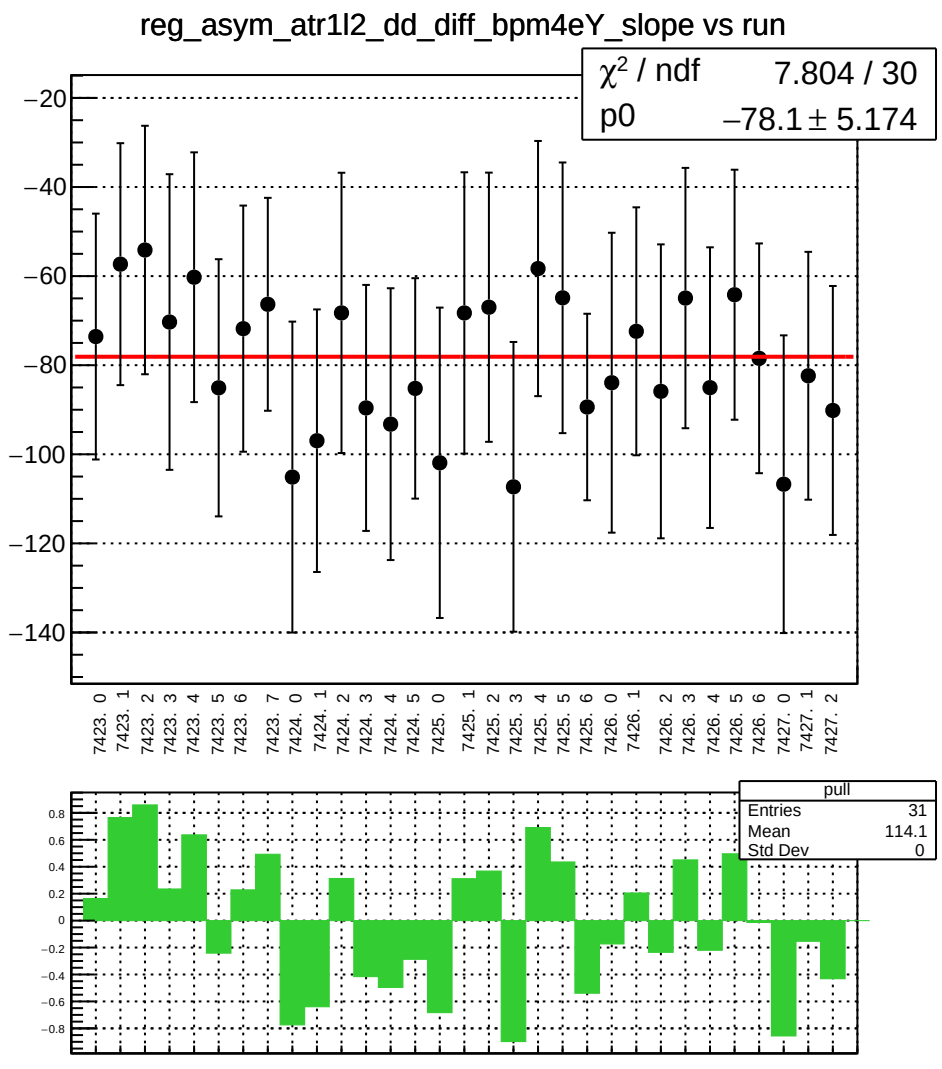

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.75 / 30
p0 139.4 ± 5.106
200
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −61.52
Std Dev 0
0.5
0
−0.5
−1
−1.5

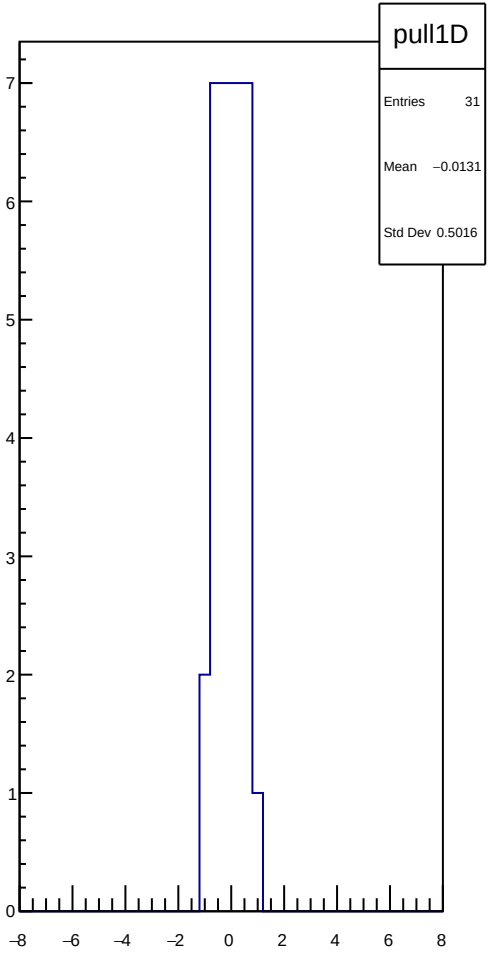

pull1D
Entries 31
Mean 0.02448
Std Dev 0.5884
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

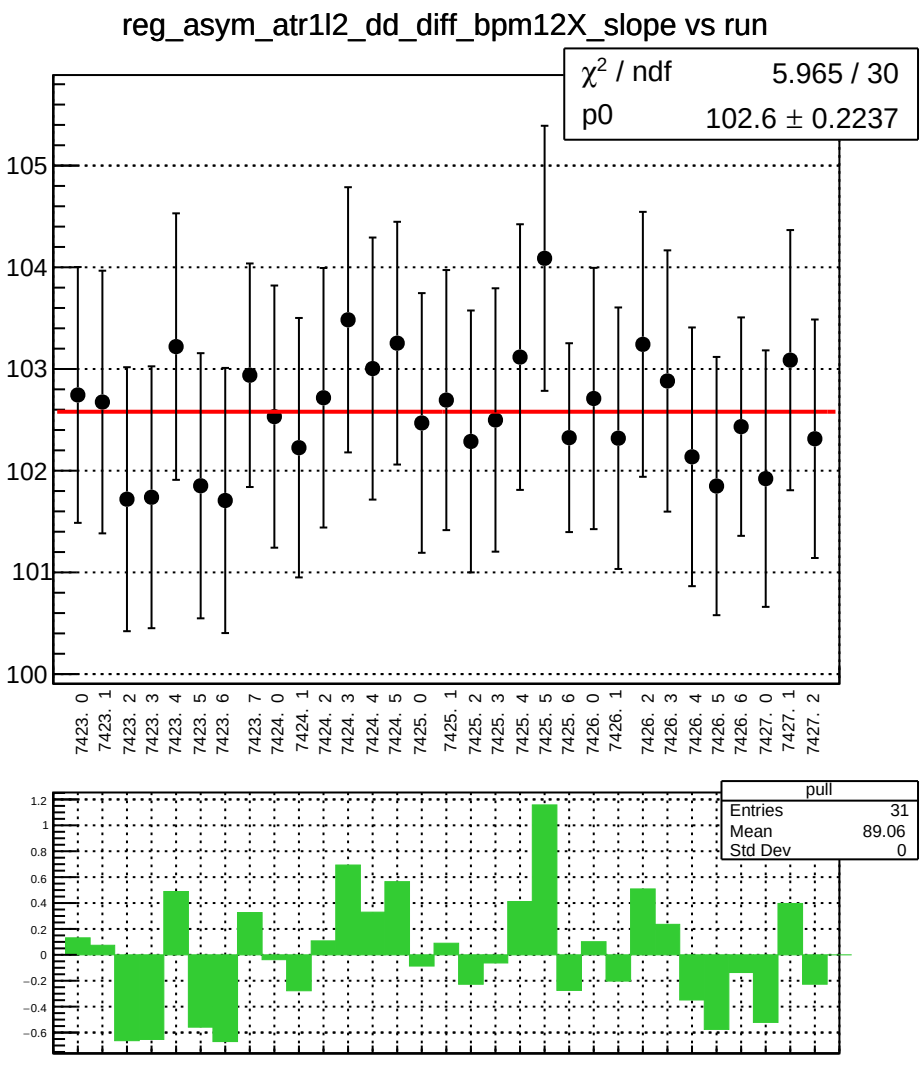

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.593 / 30
p0 15.22 ± 4.857
80
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 79.08
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.02367
Std Dev 0.5558
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

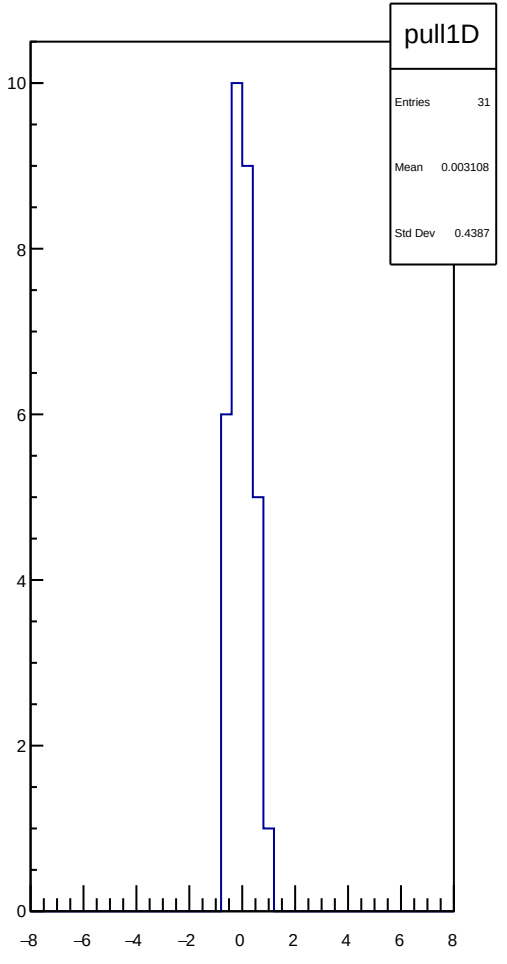

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.13 / 30
p0 −145.3 ± 5.277
−80
−100
−120
−140
−160
−180
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −64.1
Std Dev 0
1.5
1
0.5
0
−0.5

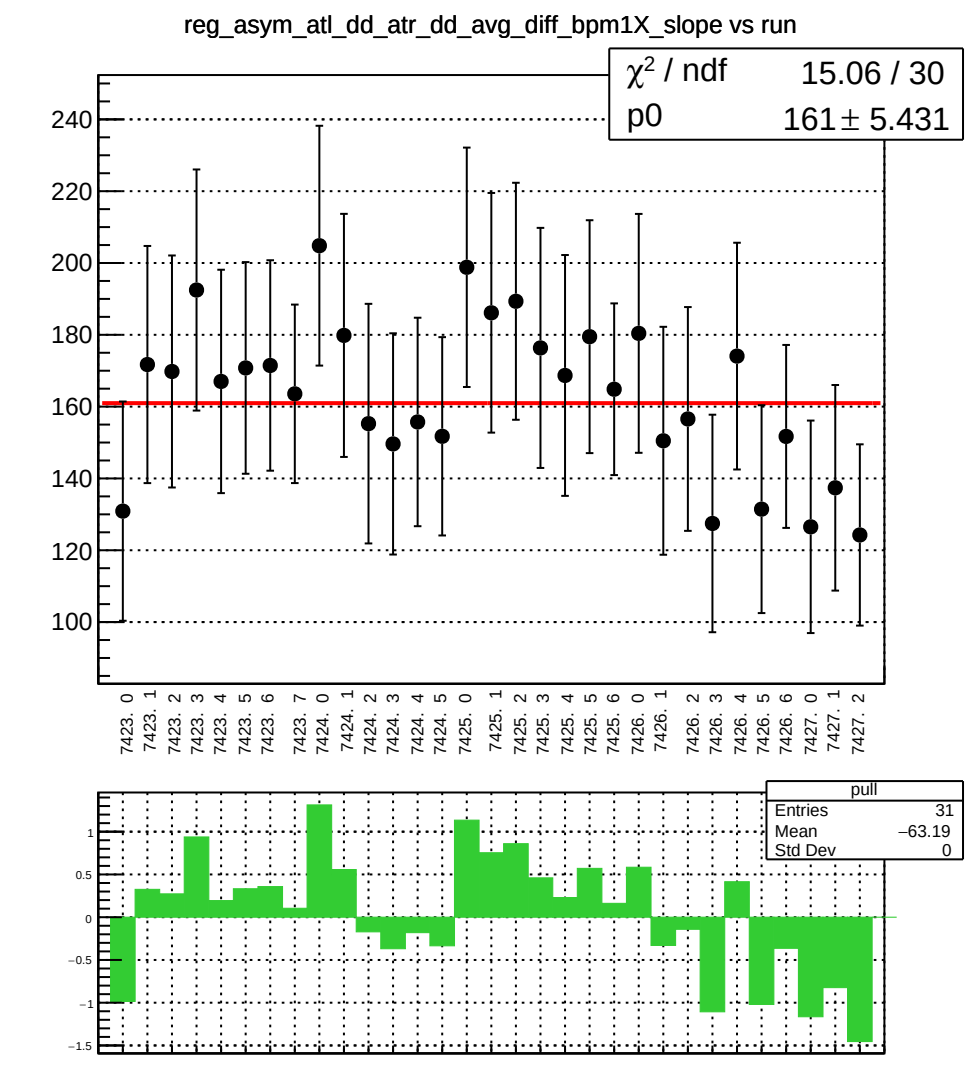

pull1D
Entries 31
Mean −0.02203
Std Dev 0.5713
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

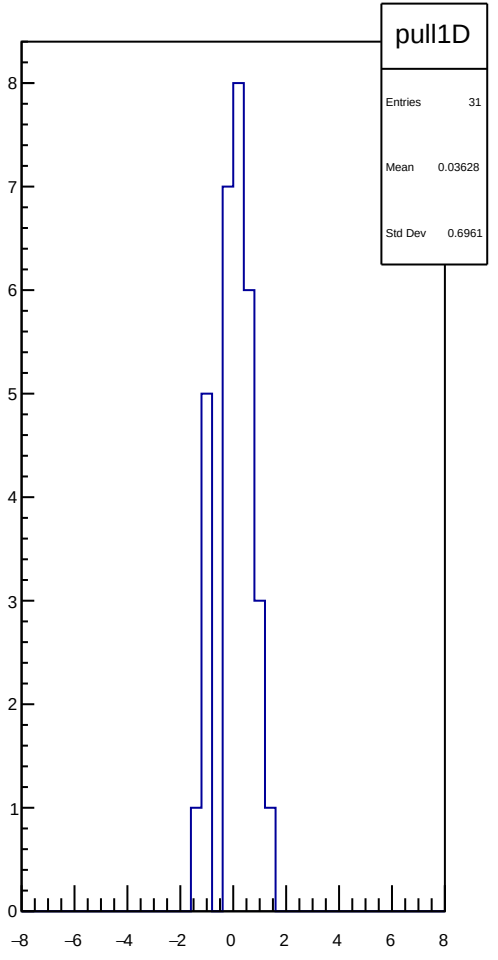

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.804 / 30
p0 −78.1 ± 5.174
−20
−40
−60
−80
−100
−120
−140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 114.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

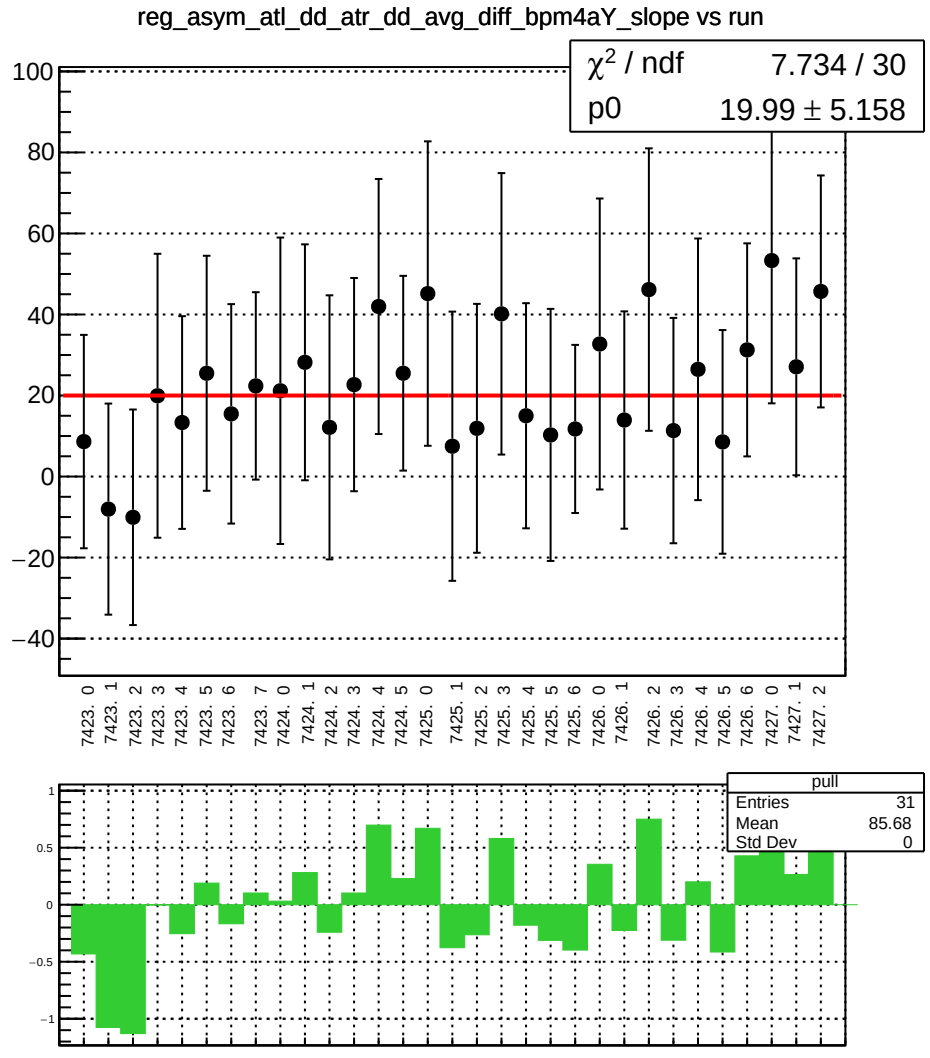

pull1D
Entries 31
Mean −0.0131
Std Dev 0.5016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

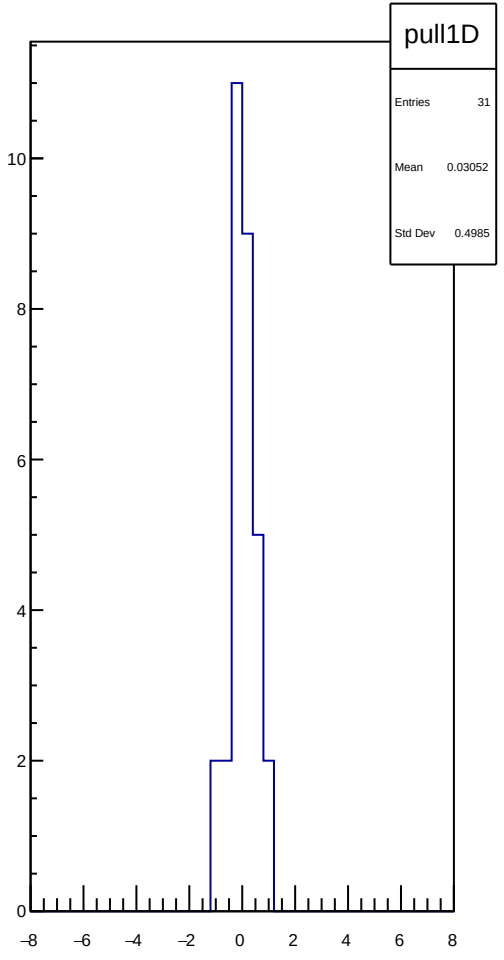

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 5.965 / 30
p0 102.6 ± 0.2237
105
104
103
102
101
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 89.06
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

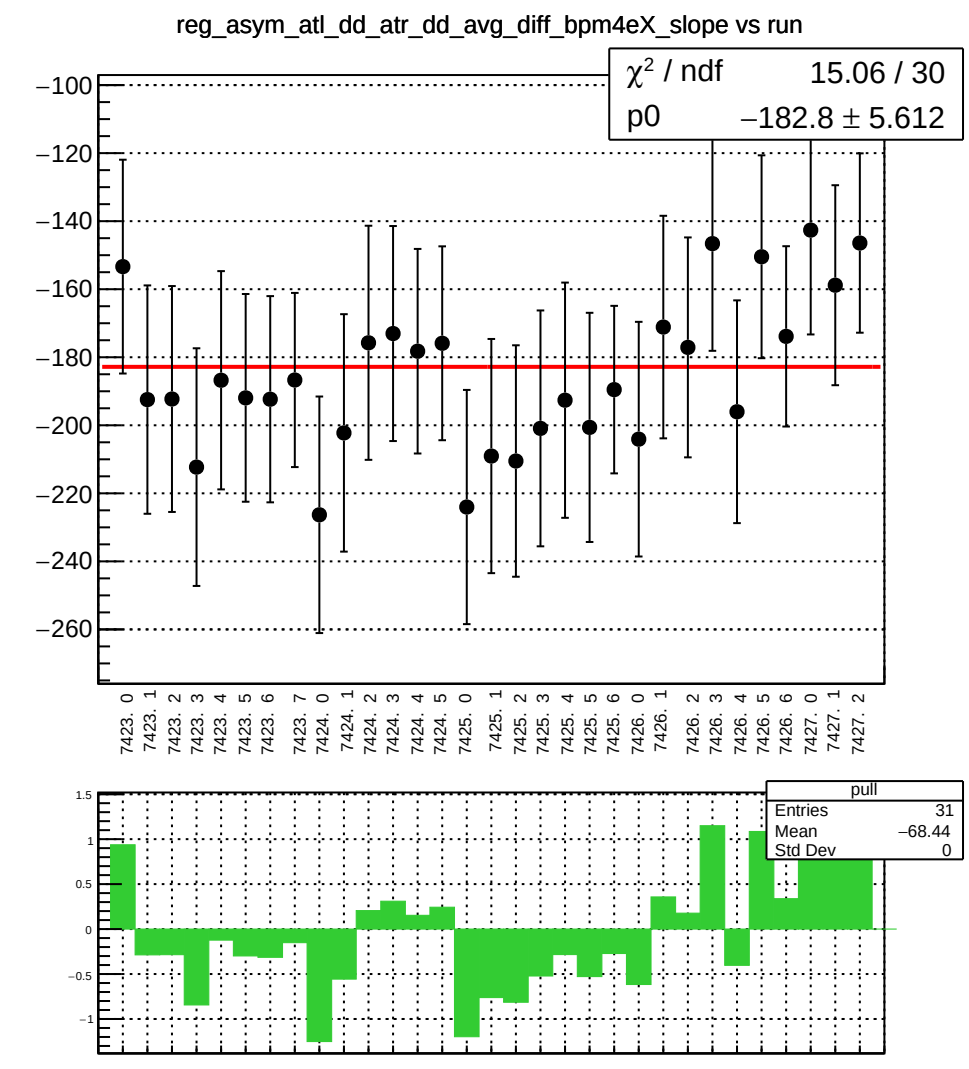

pull1D
Entries 31
Mean 0.003108
Std Dev 0.4387
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

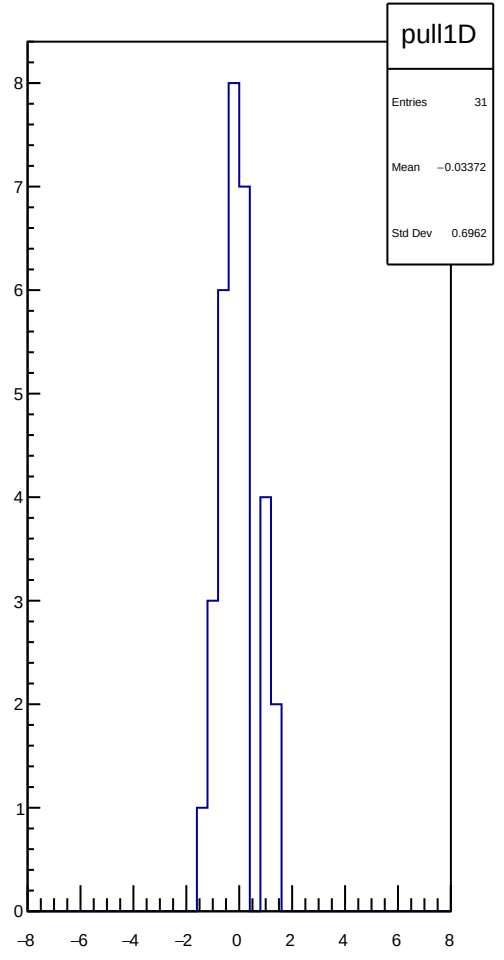

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 15.06 / 30
p0 161 ± 5.431
240
220
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −63.19
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

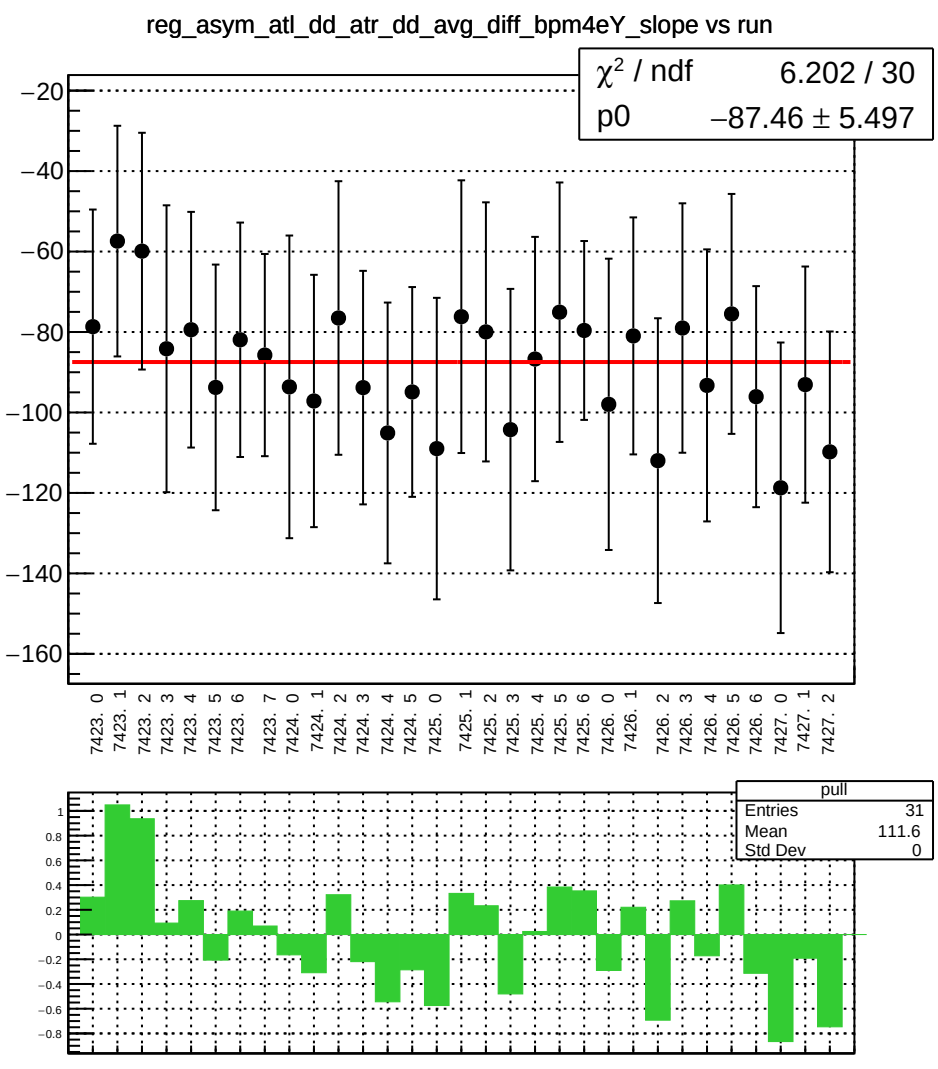

pull1D
Entries 31
Mean 0.03628
Std Dev 0.6961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

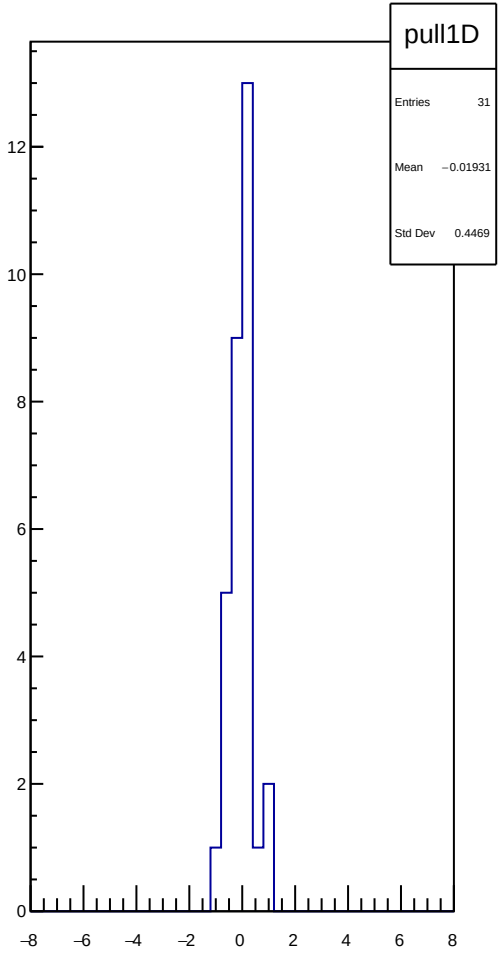

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.734 / 30
p0 19.99 ± 5.158
pull
Entries 31
Mean 85.68
Std Dev 0

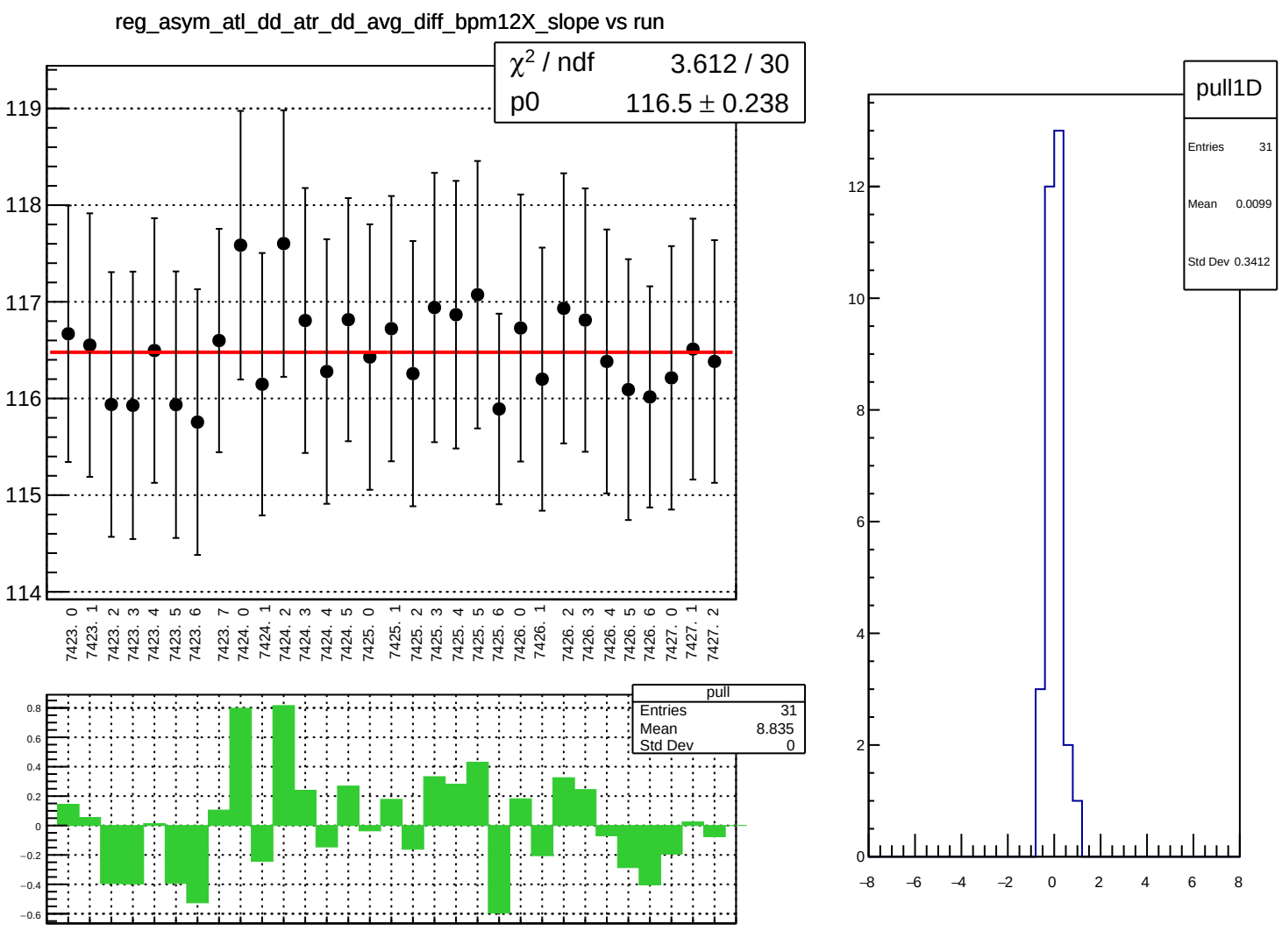

pull1D
Entries 31
Mean 0.03052
Std Dev 0.4985

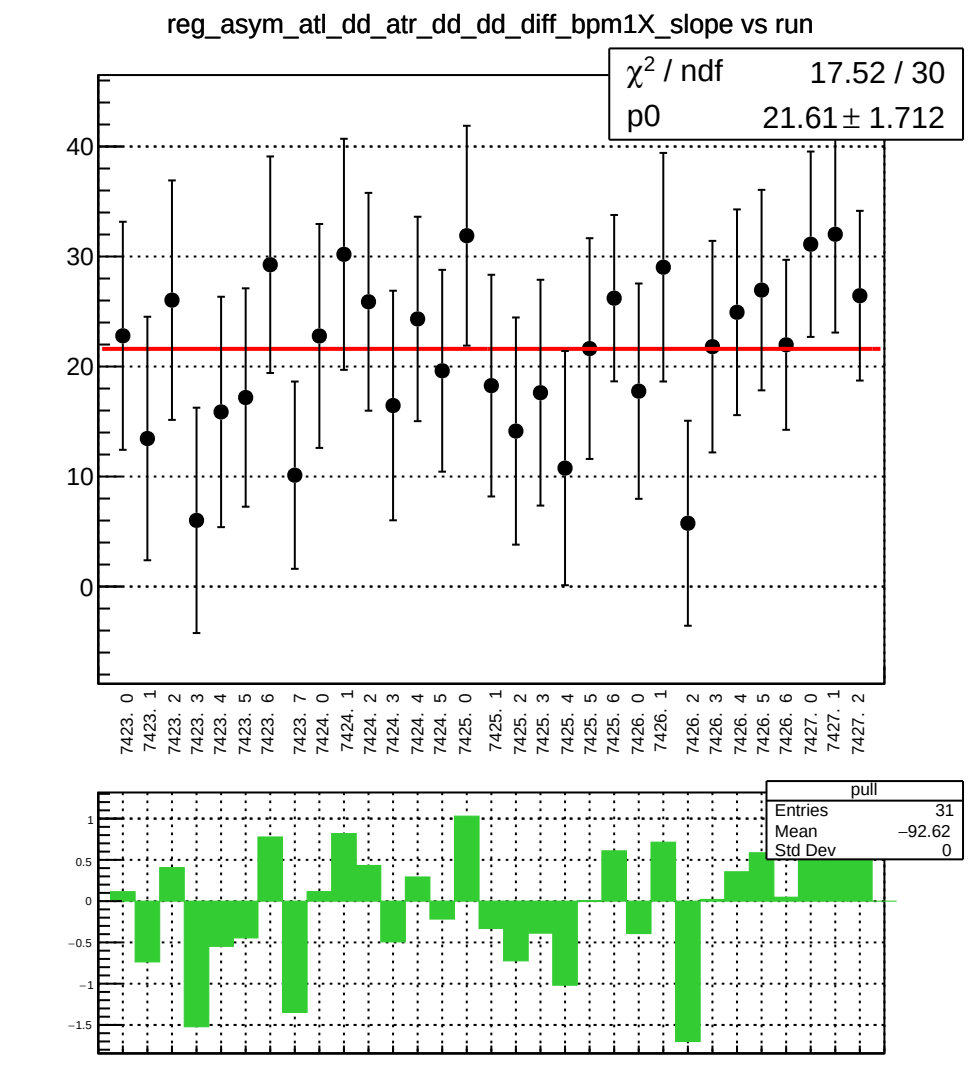

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.06 / 30
p0 −182.8 ± 5.612
pull
Entries 31
Mean −68.44
Std Dev 0

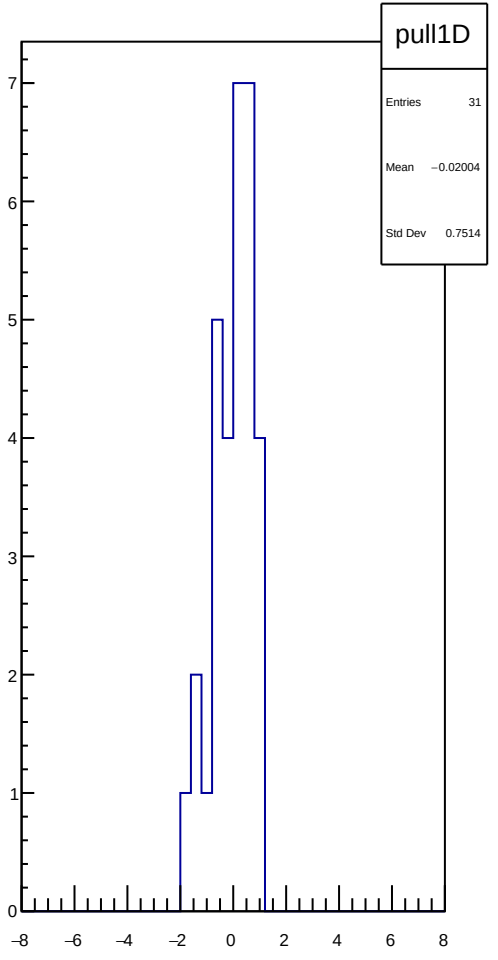

pull1D
Entries 31
Mean −0.03372
Std Dev 0.6962

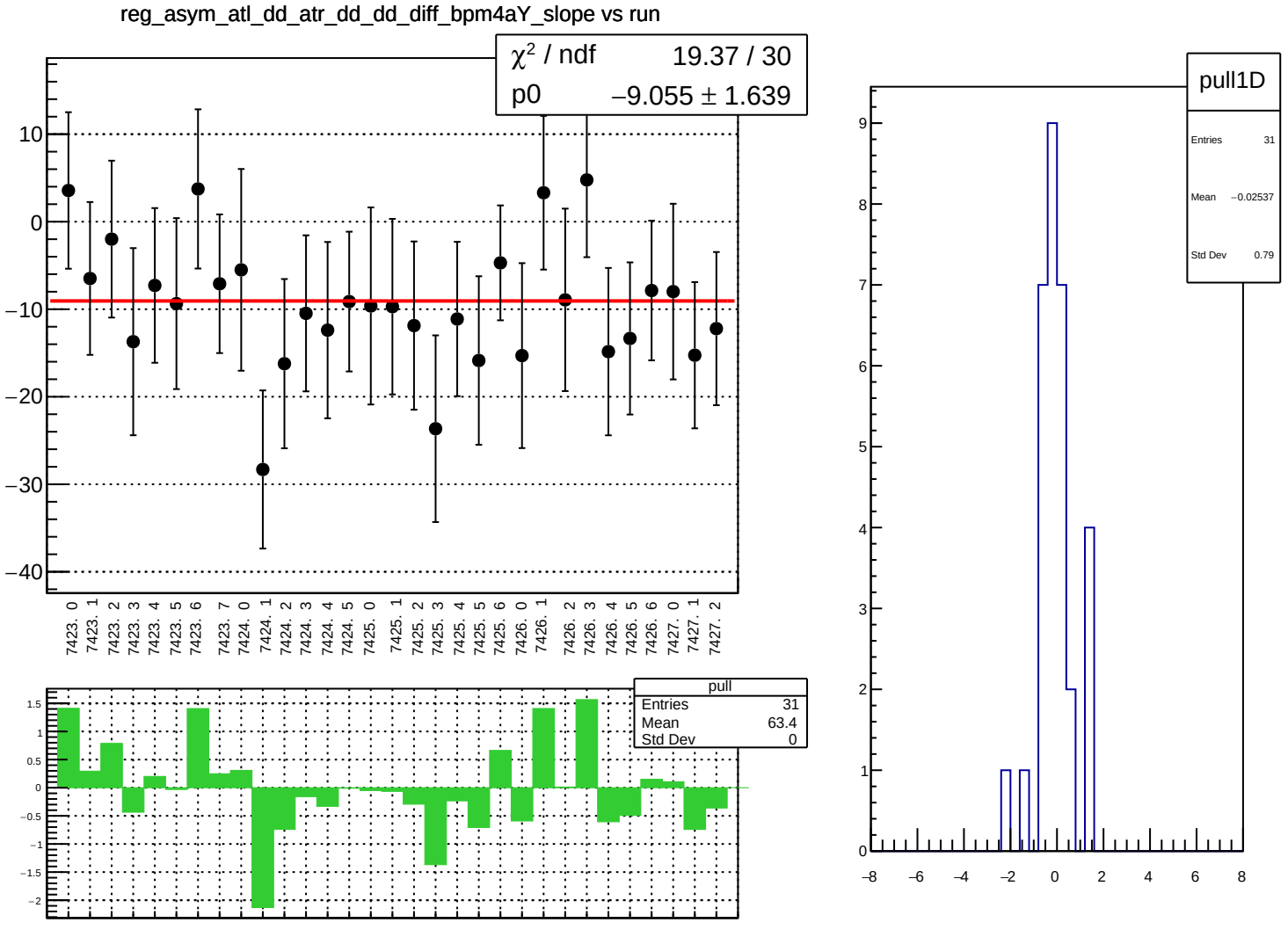

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.202 / 30
p0 −87.46 ± 5.497
−20
−40
−60
−80
−100
−120
−140
−160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 111.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

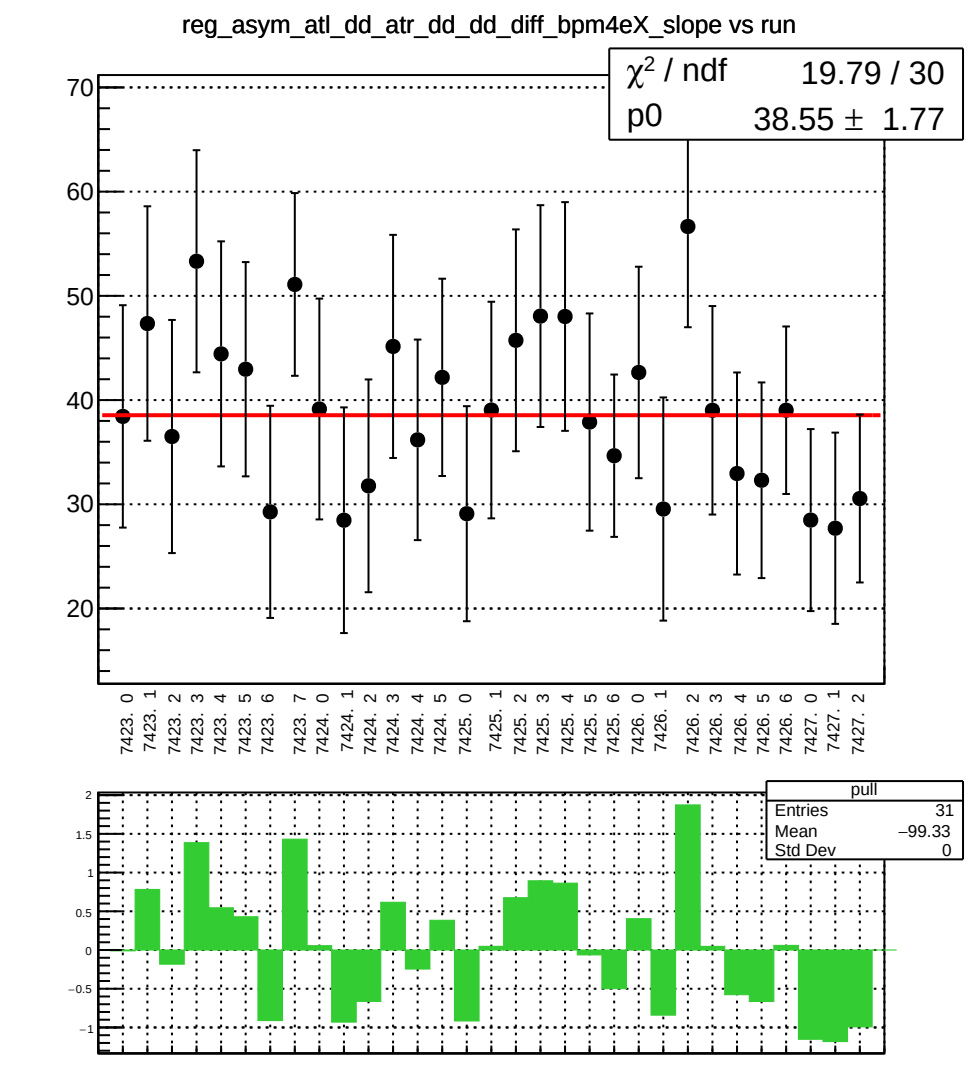

pull1D
Entries 31
Mean −0.01931
Std Dev 0.4469
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

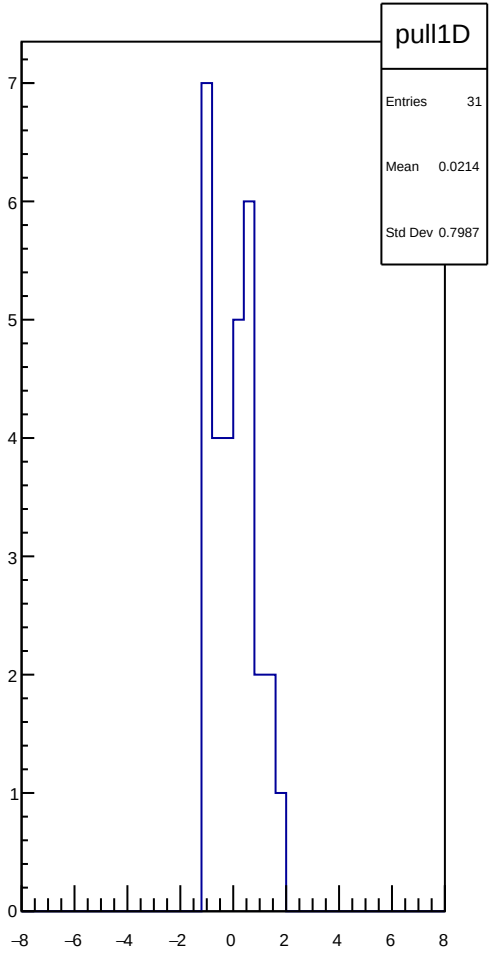

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 3.612 / 30
p0 116.5 ± 0.238
119
118
117
116
115
114
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.835
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean 0.0099
Std Dev 0.3412
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

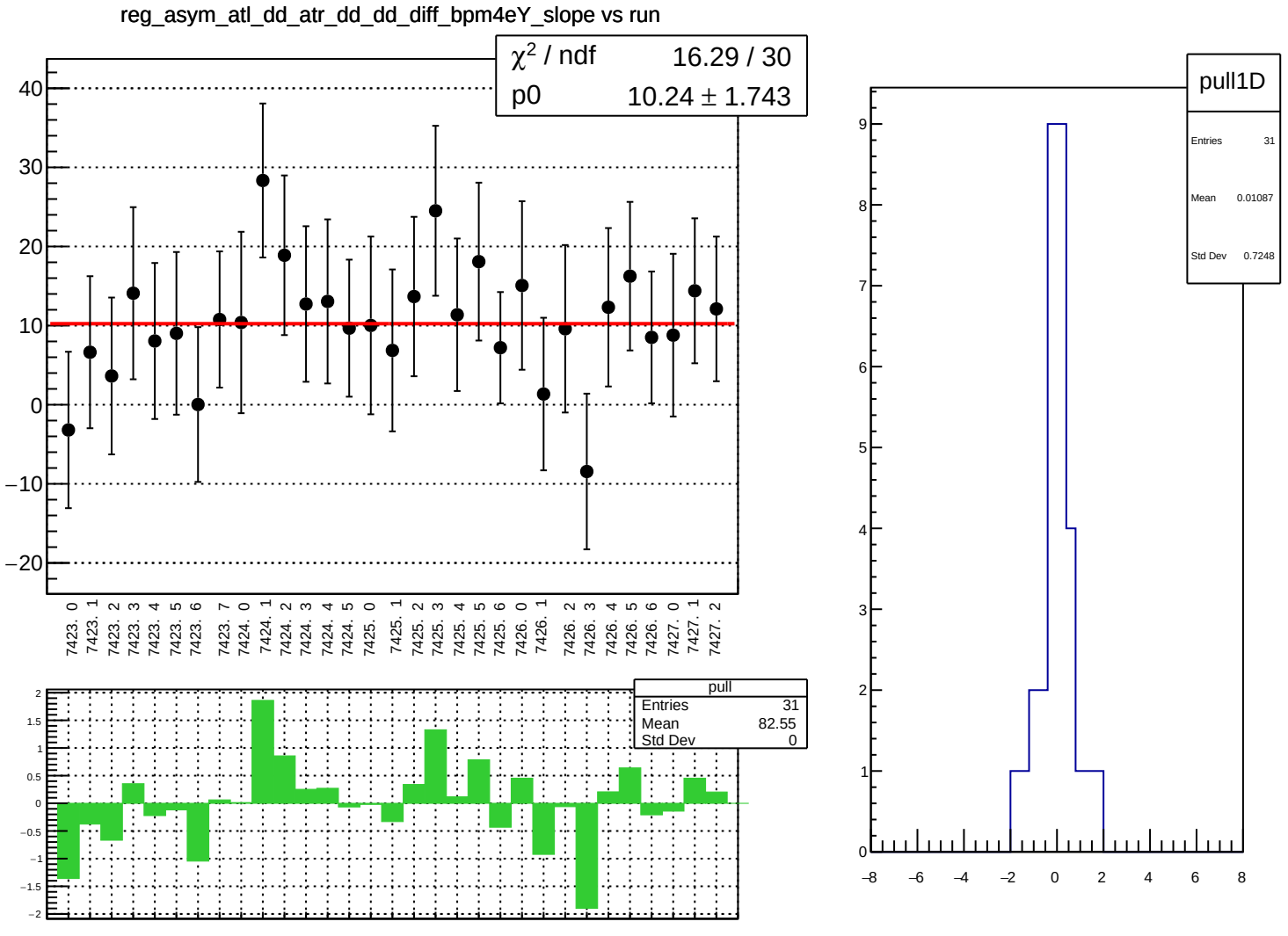

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 17.52 / 30
p0 21.61 ± 1.712
40
30
20
10
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −92.62
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

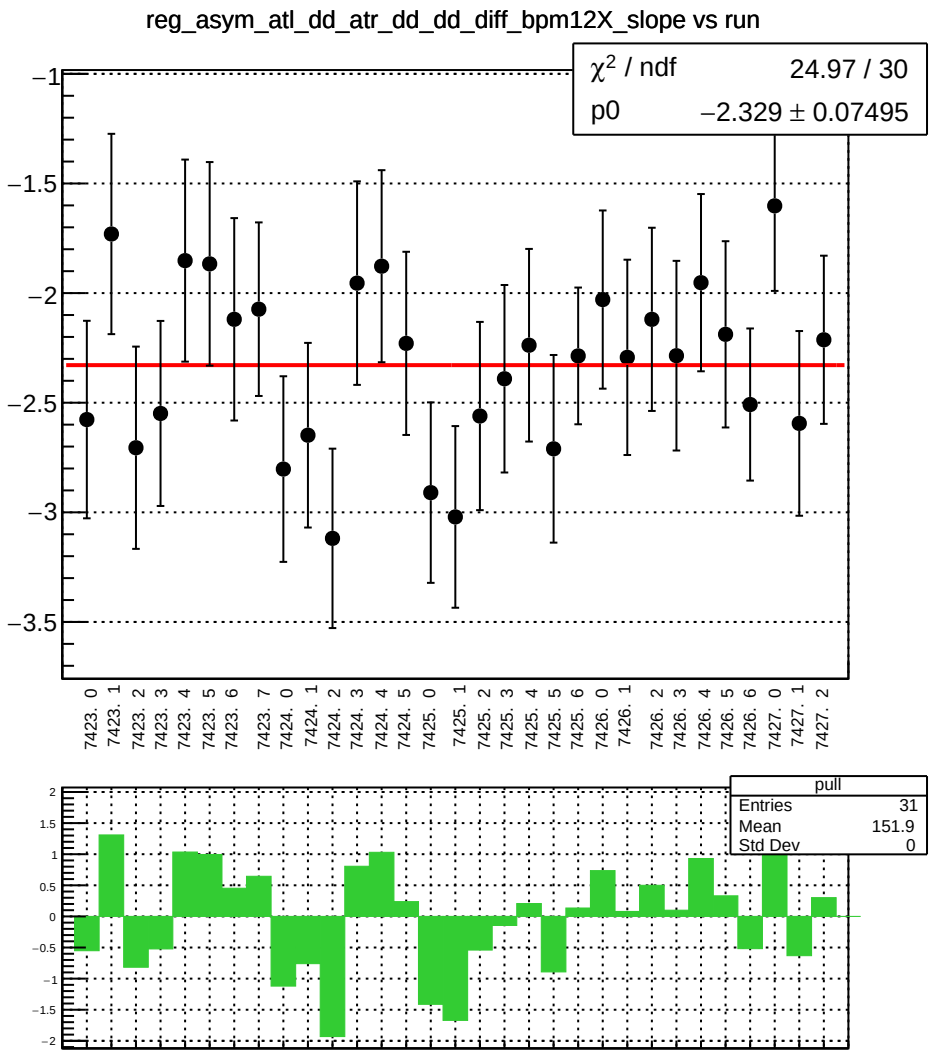

pull1D
Entries 31
Mean −0.02004
Std Dev 0.7514
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

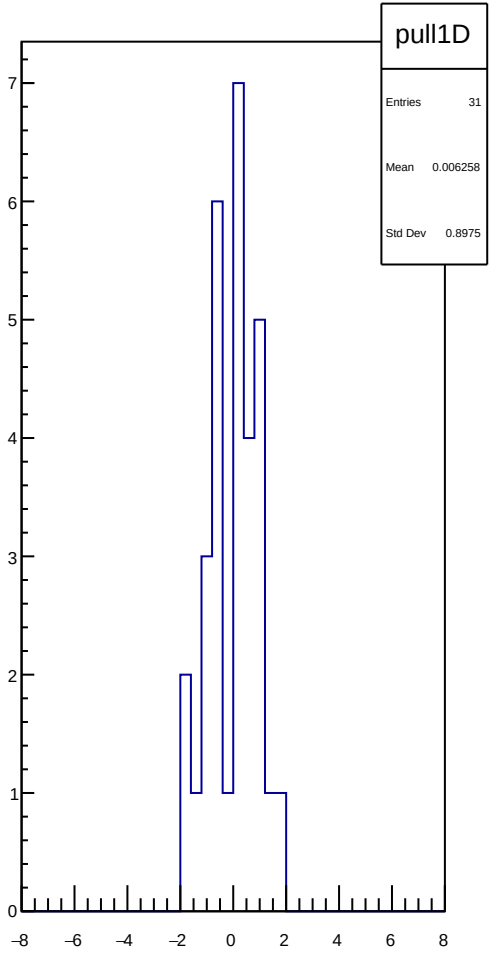

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.37 / 30
p0 −9.055 ± 1.639
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 63.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.02537
Std Dev 0.79
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

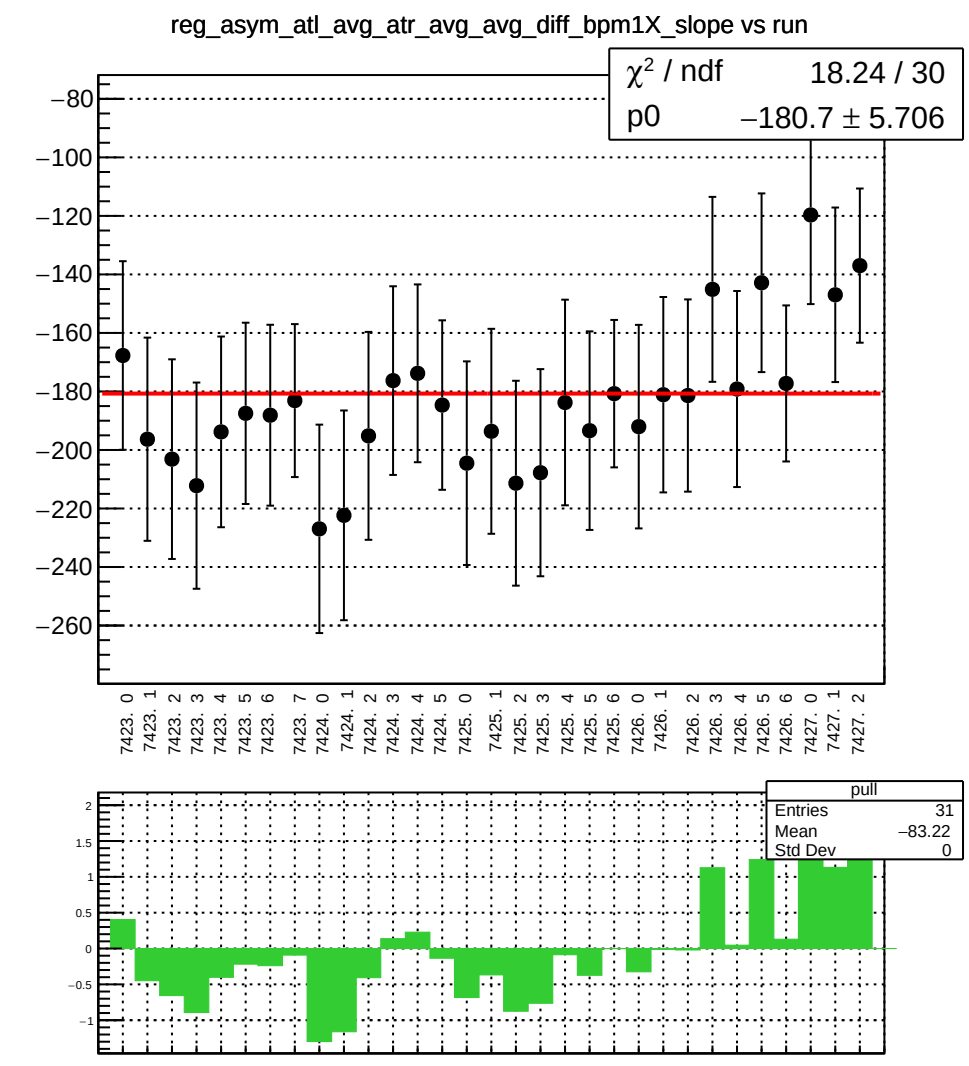

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.79 / 30
p0 38.55 ± 1.77
pull
Entries 31
Mean −99.33
Std Dev 0

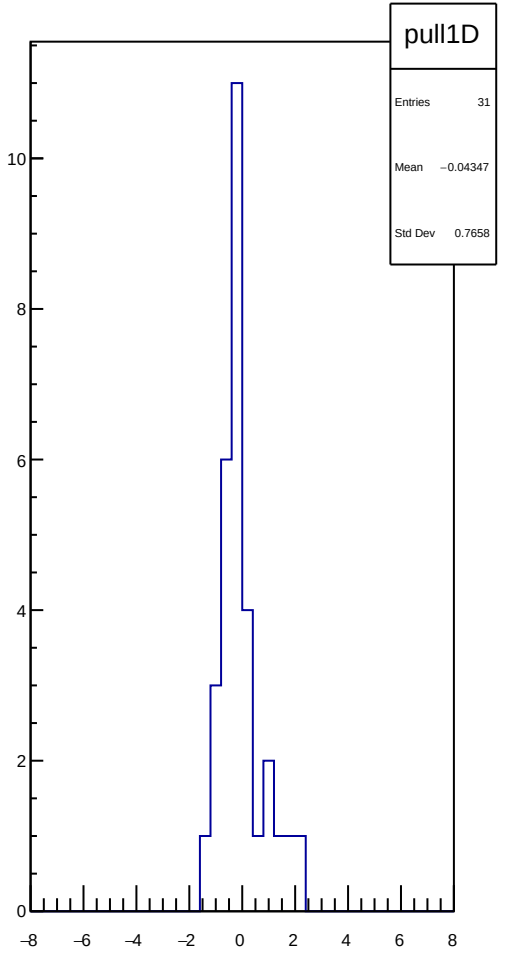

pull1D
Entries 31
Mean 0.0214
Std Dev 0.7987

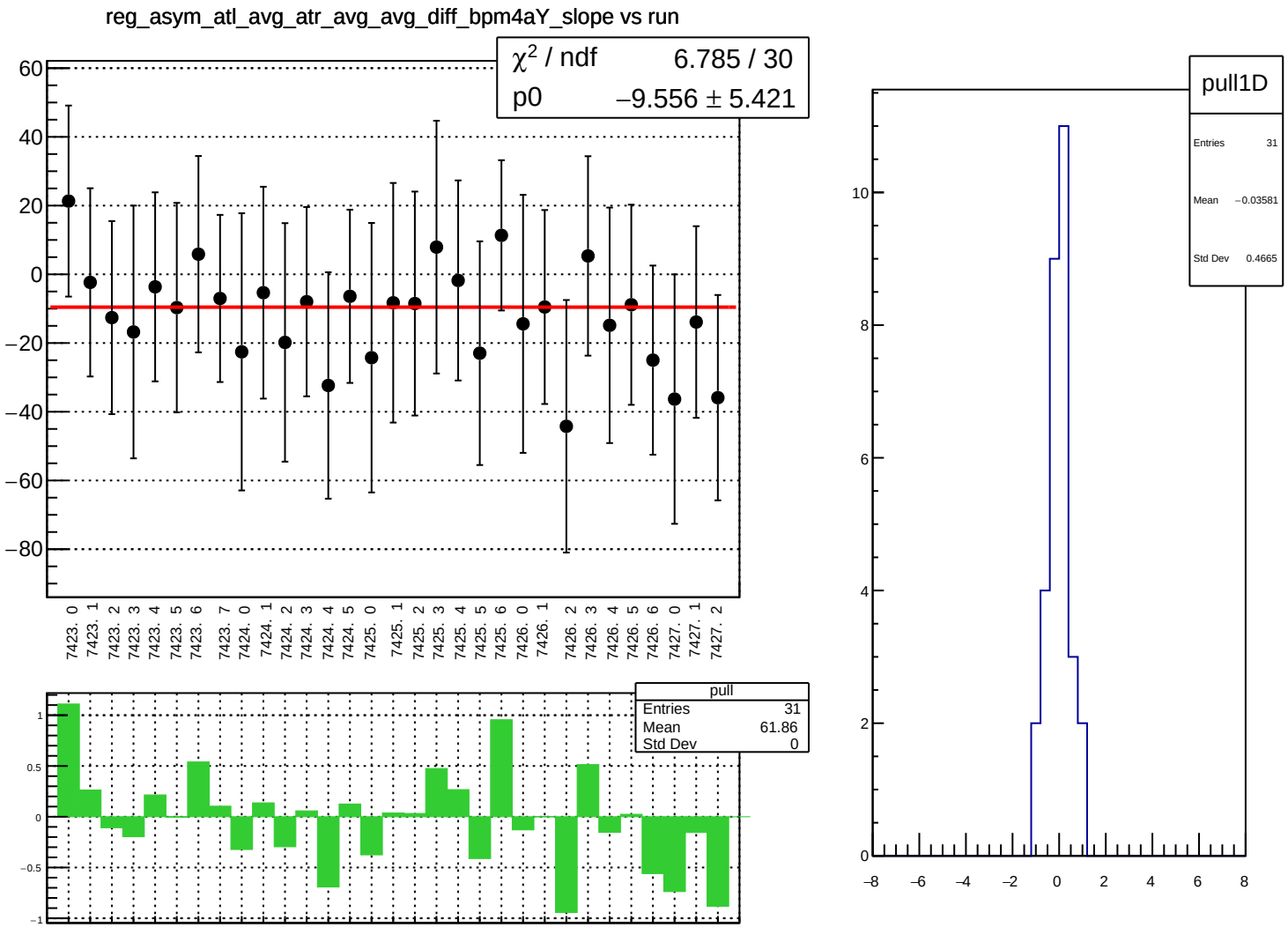

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.29 / 30
p0 10.24 ± 1.743
40
30
20
10
0
−10
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 82.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01087
Std Dev 0.7248
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

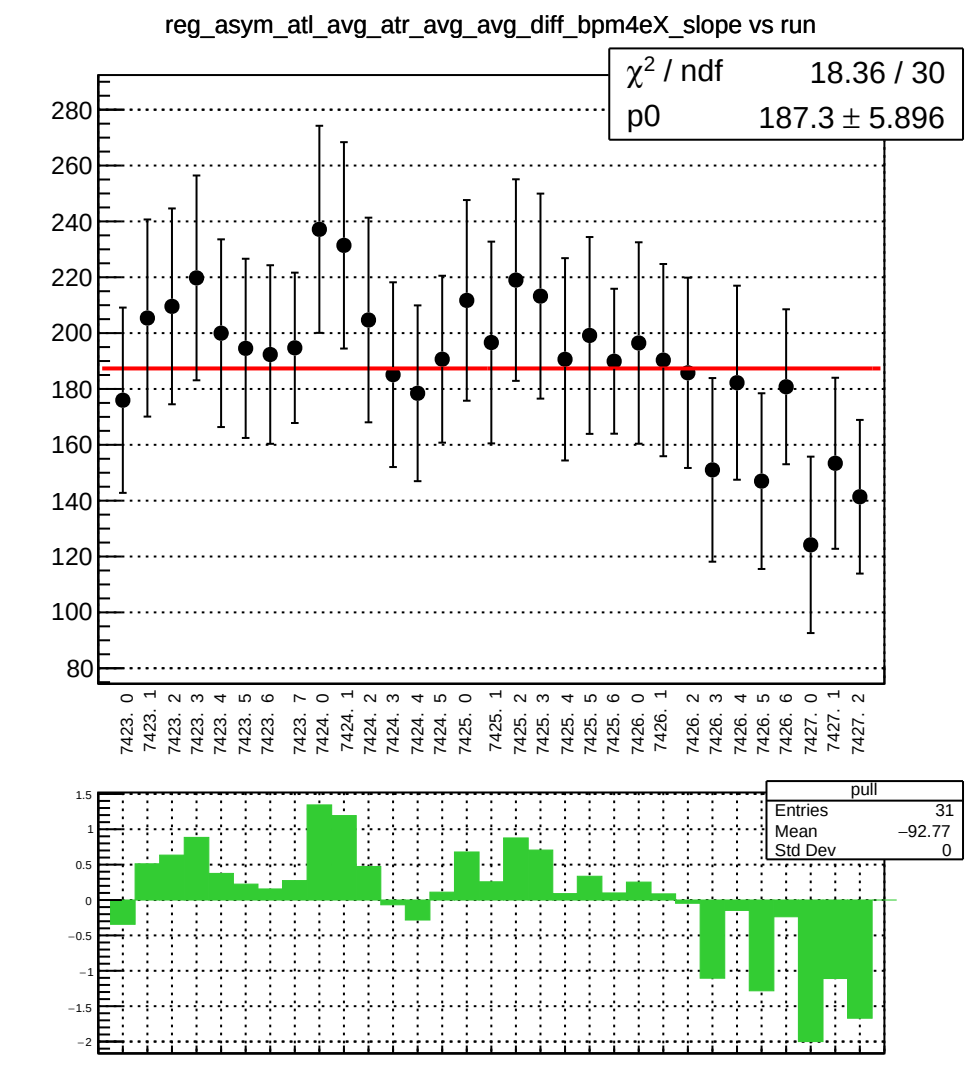

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 24.97 / 30
p0 −2.329 ± 0.07495
−1
−1.5
−2
−2.5
−3
−3.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 151.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

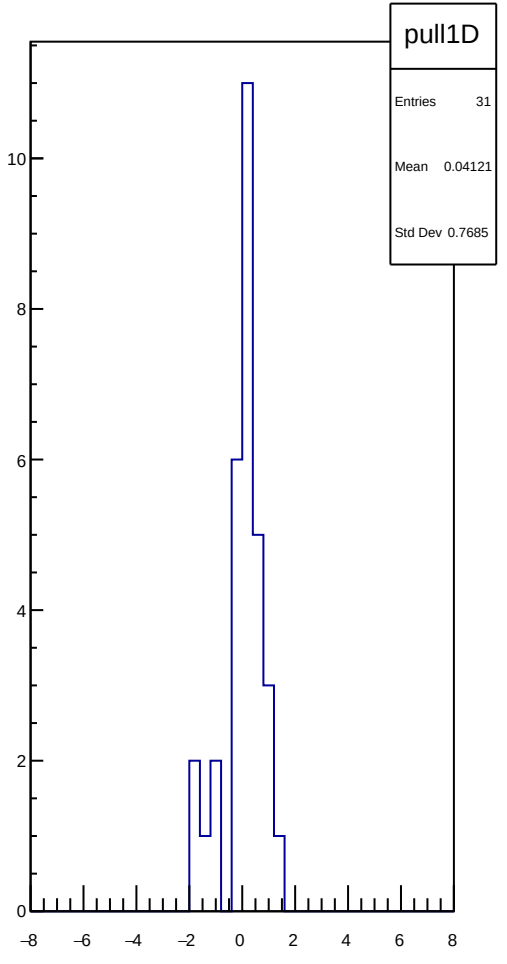

pull1D
Entries 31
Mean 0.006258
Std Dev 0.8975
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

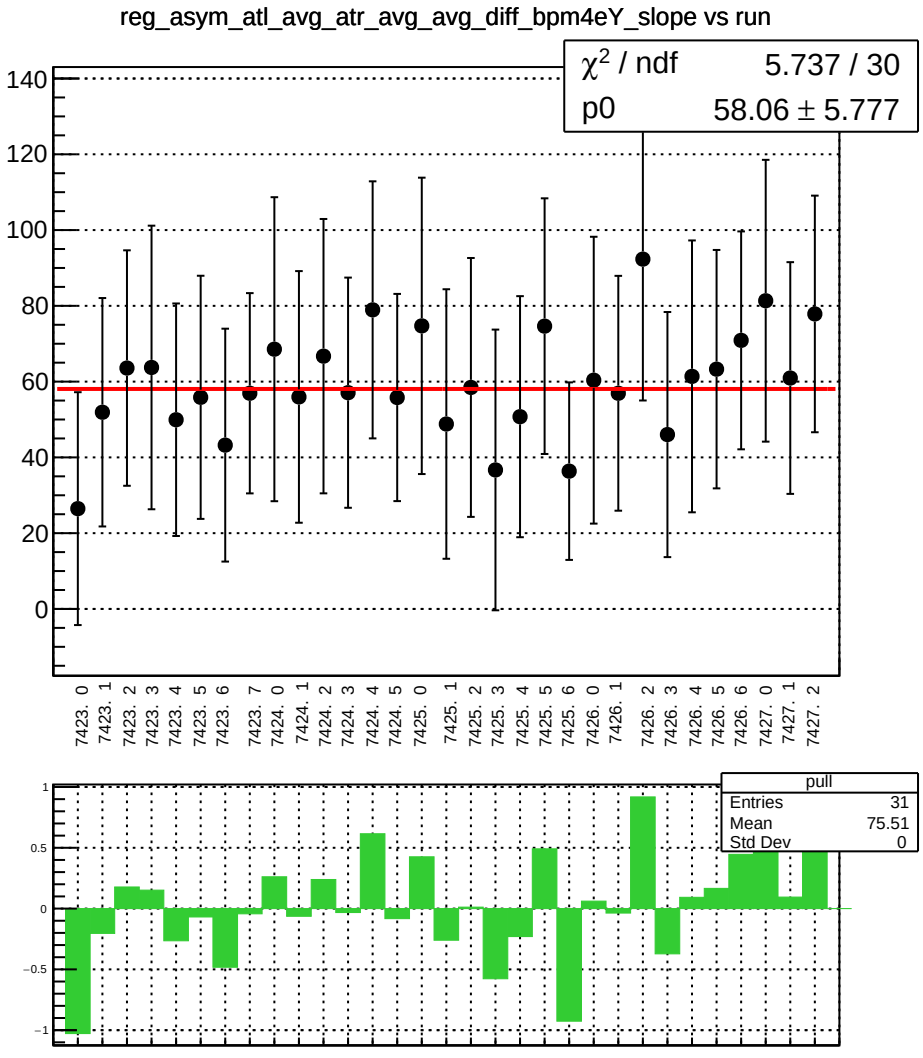

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 18.24 / 30
p0 −180.7 ± 5.706
−80
−100
−120
−140
−160
−180
−200
−220
−240
−260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −83.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

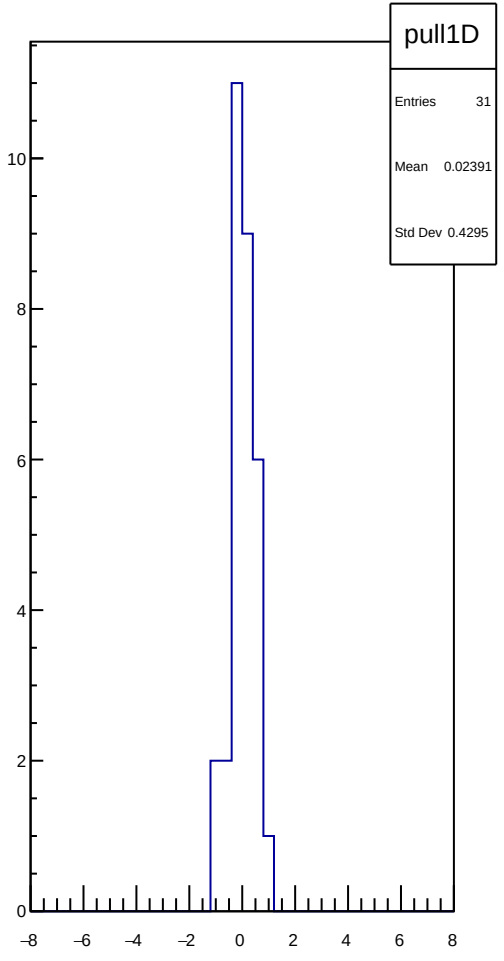

pull1D
Entries 31
Mean −0.04347
Std Dev 0.7658
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

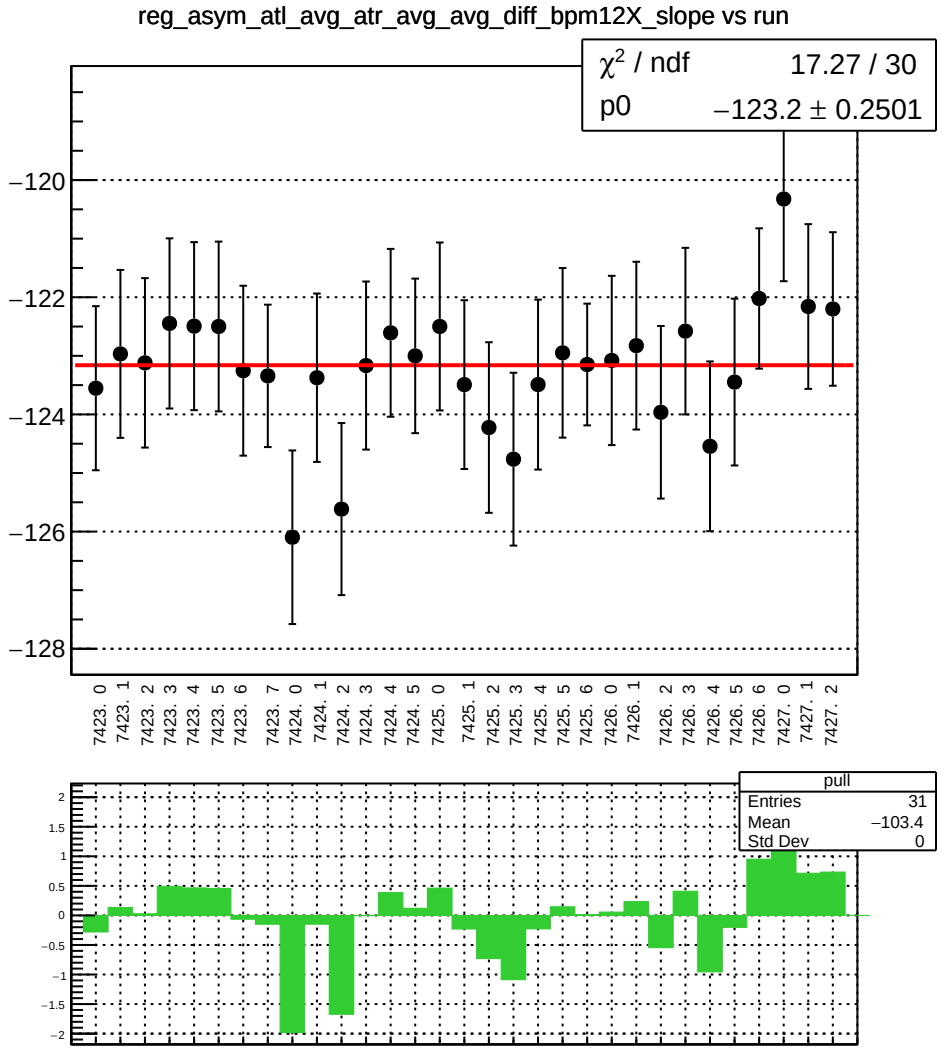

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.785 / 30
p0 −9.556 ± 5.421
60
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 61.86
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.03581
Std Dev 0.4665
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

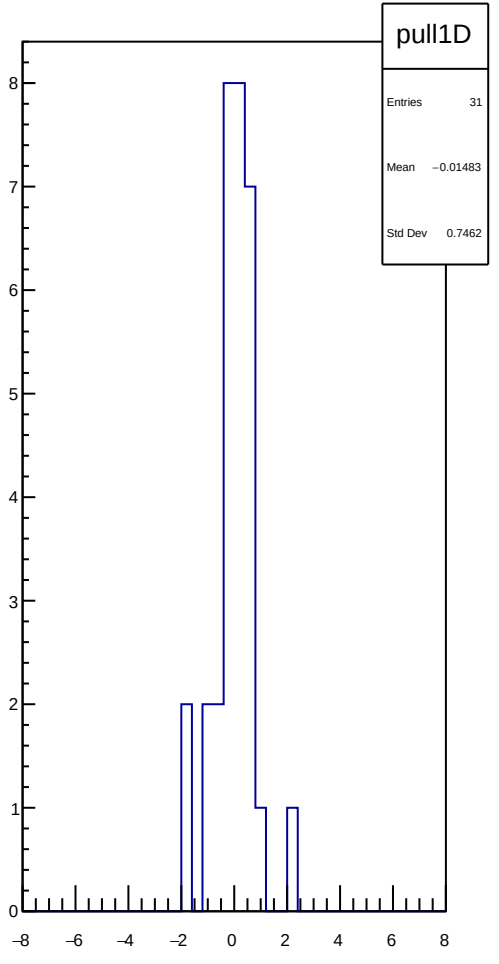

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.36 / 30
p0 187.3 ± 5.896
280
260
240
220
200
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −92.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

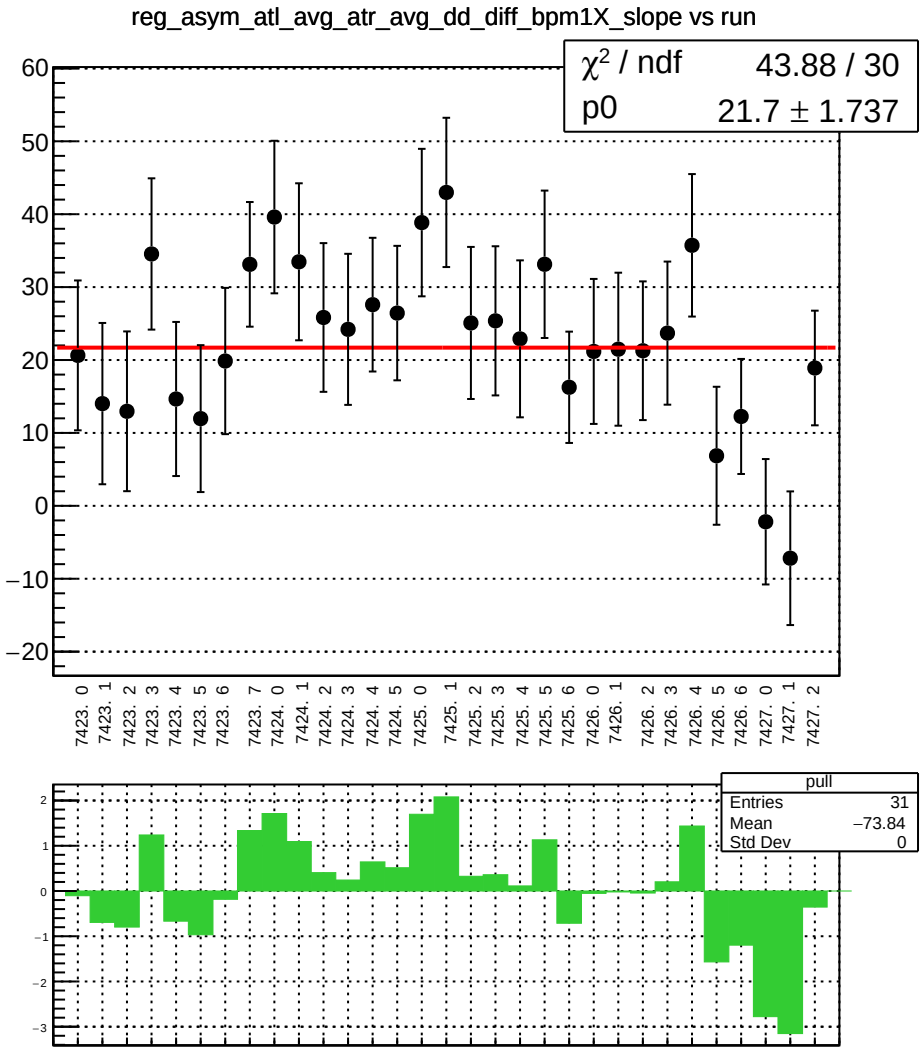

pull1D
Entries 31
Mean 0.04121
Std Dev 0.7685
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

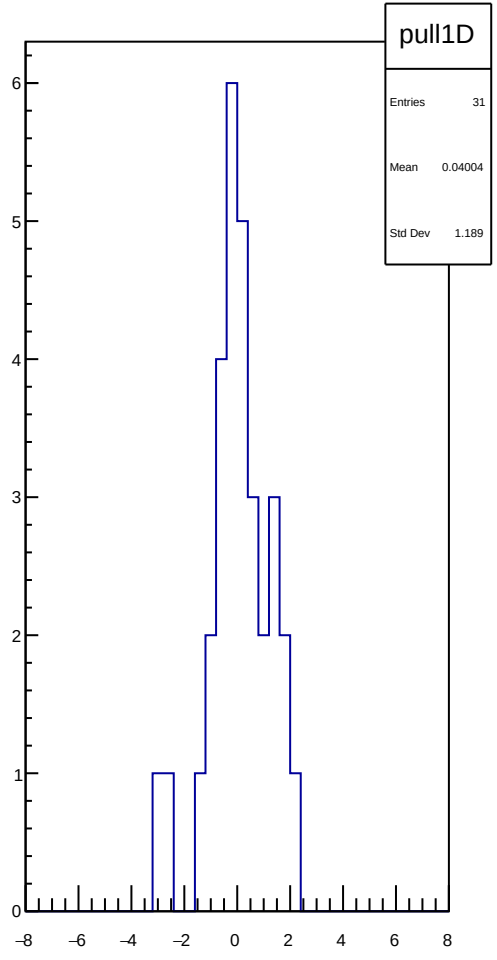

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.737 / 30
p0 58.06 ± 5.777
140
120
100
80
60
40
20
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 75.51
Std Dev 0
1
0.5
0
−0.5
−1

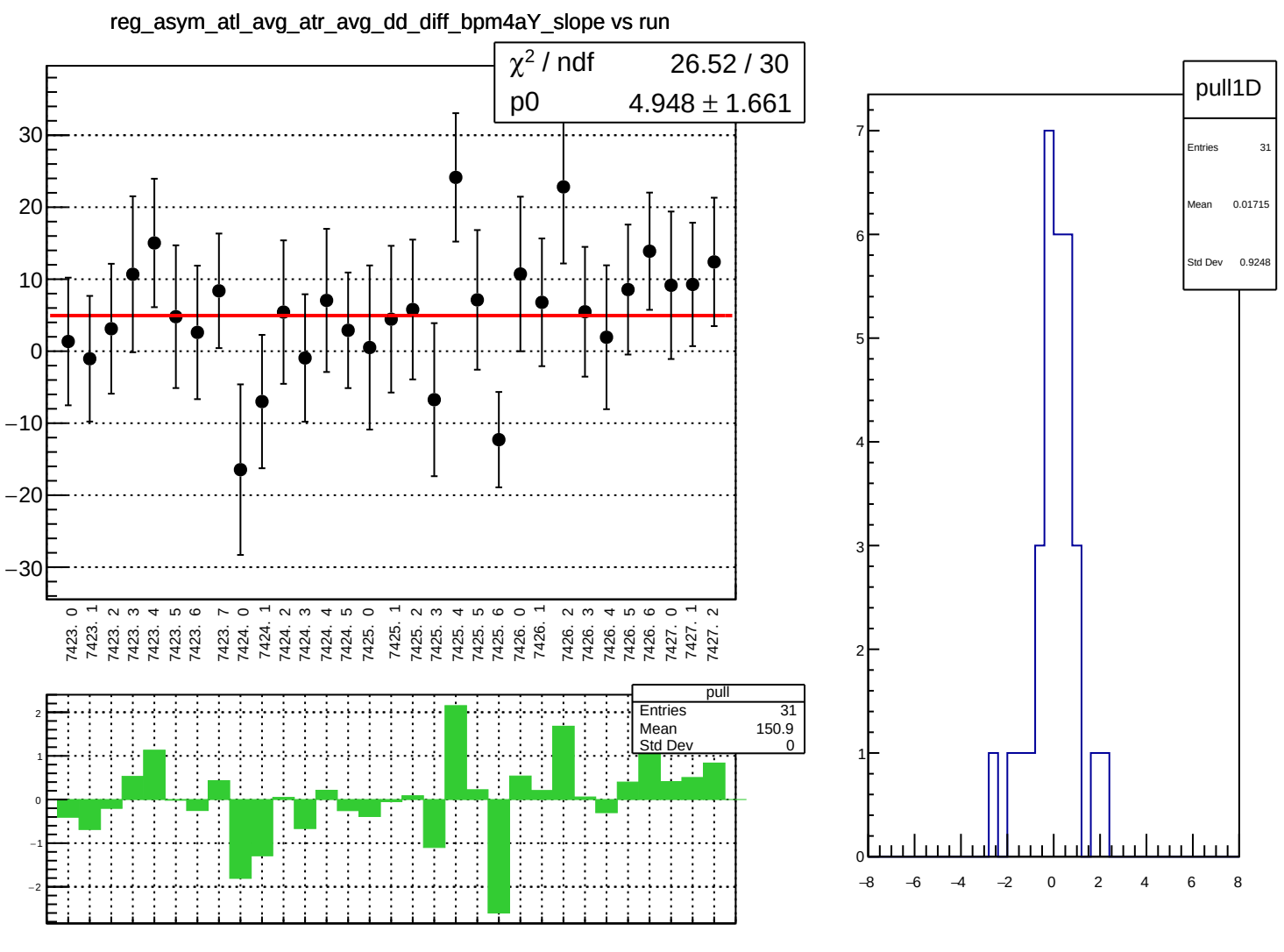

pull1D
Entries 31
Mean 0.02391
Std Dev 0.4295
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

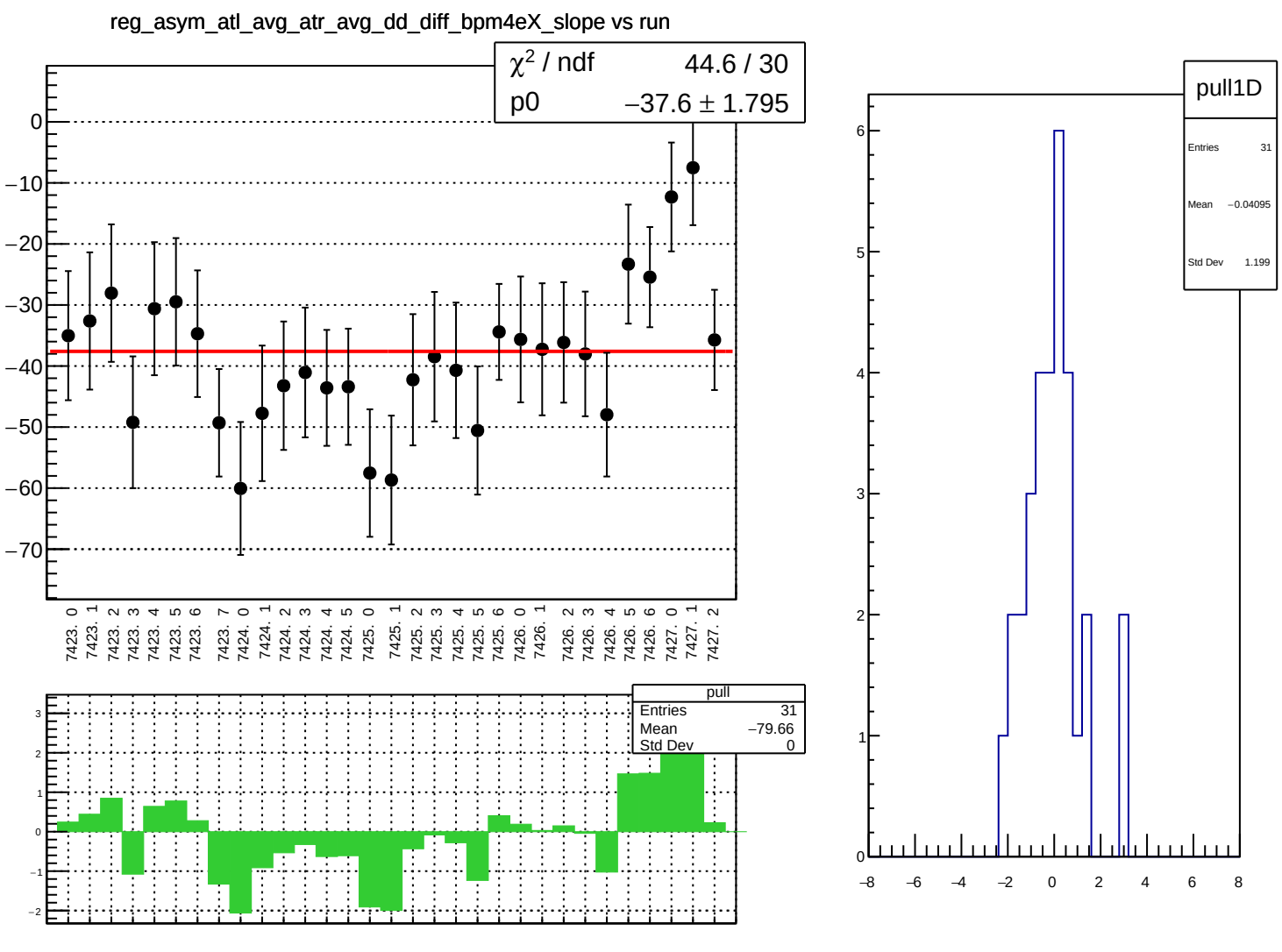

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 17.27 / 30
p0 −123.2 ± 0.2501
−120
−122
−124
−126
−128
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −103.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

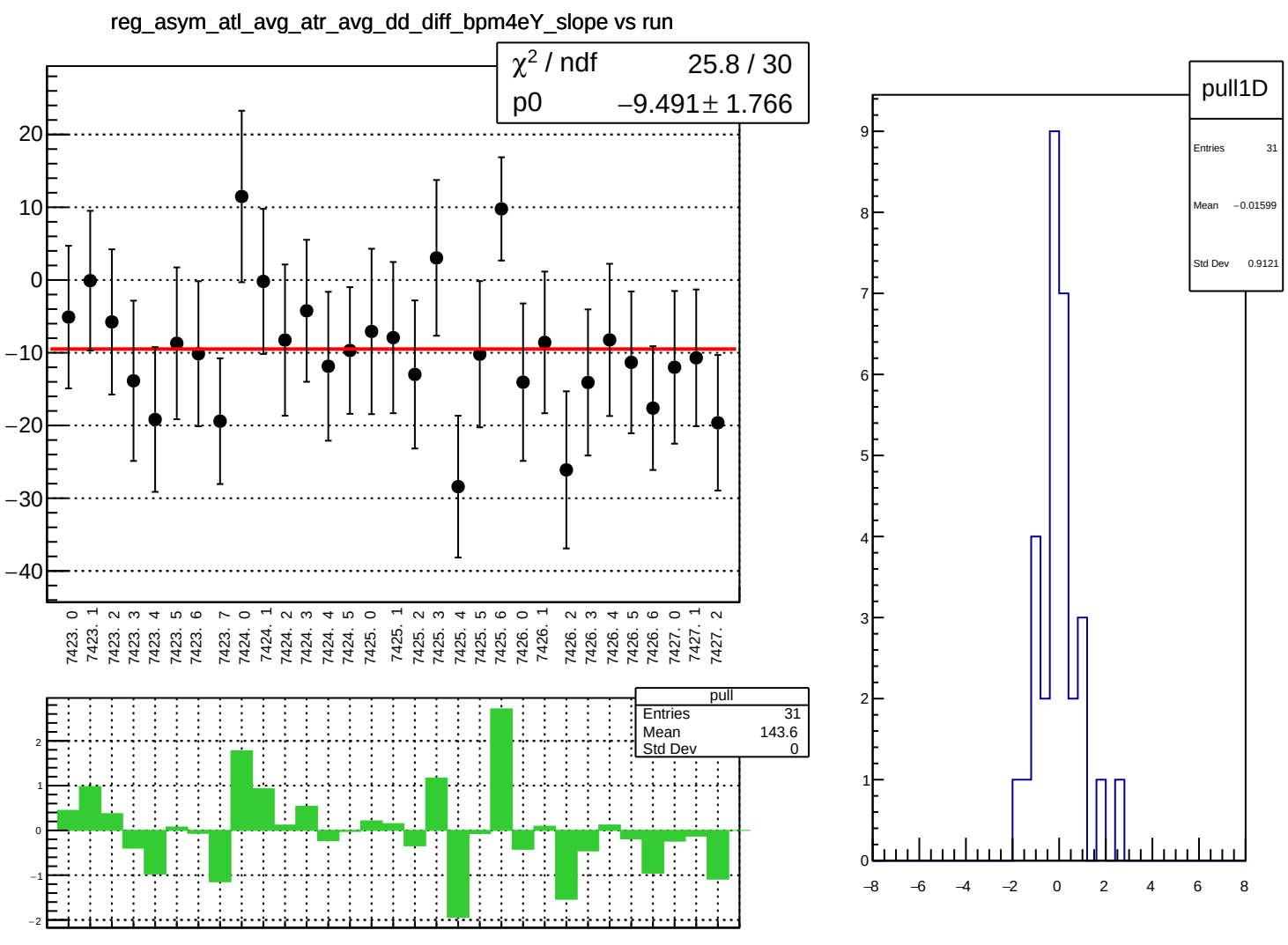

pull1D
Entries 31
Mean −0.01483
Std Dev 0.7462
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

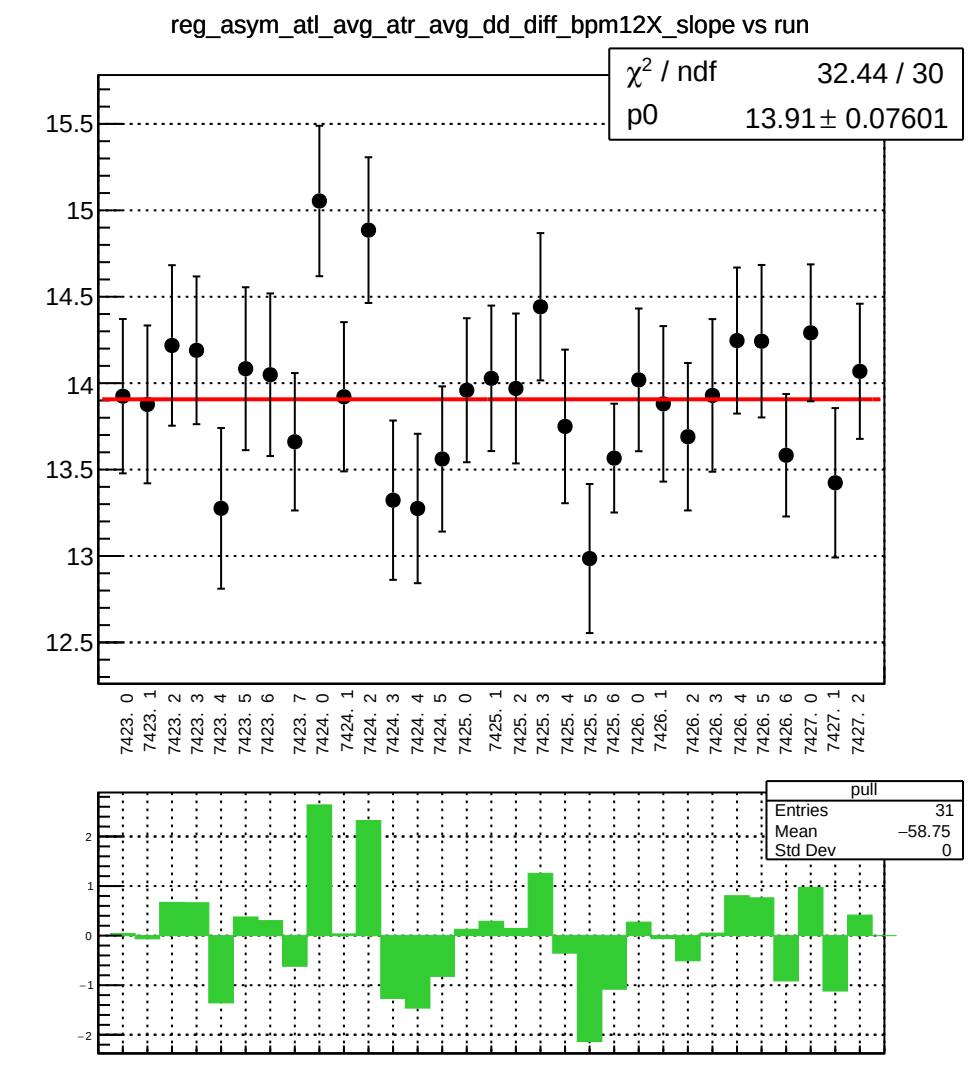

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 43.88 / 30
p0 21.7 ± 1.737
pull
Entries 31
Mean −73.84
Std Dev 0

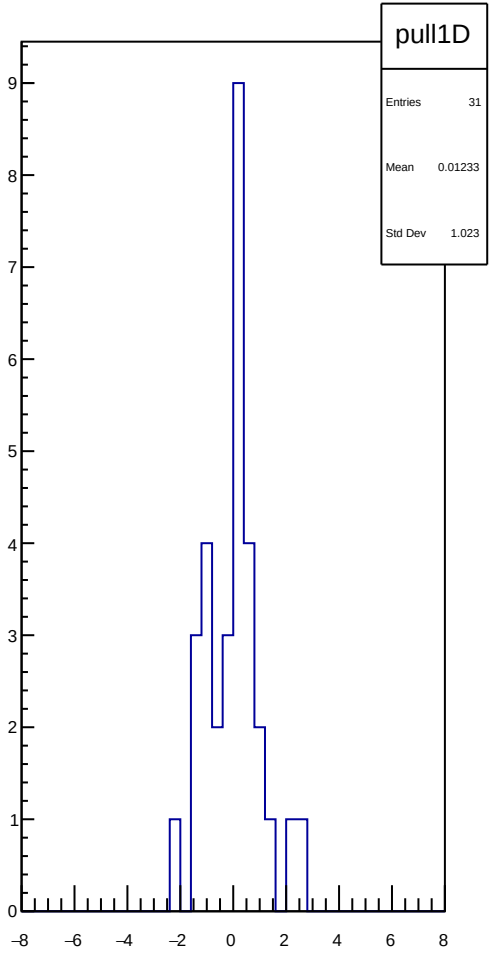

pull1D
Entries 31
Mean 0.04004
Std Dev 1.189

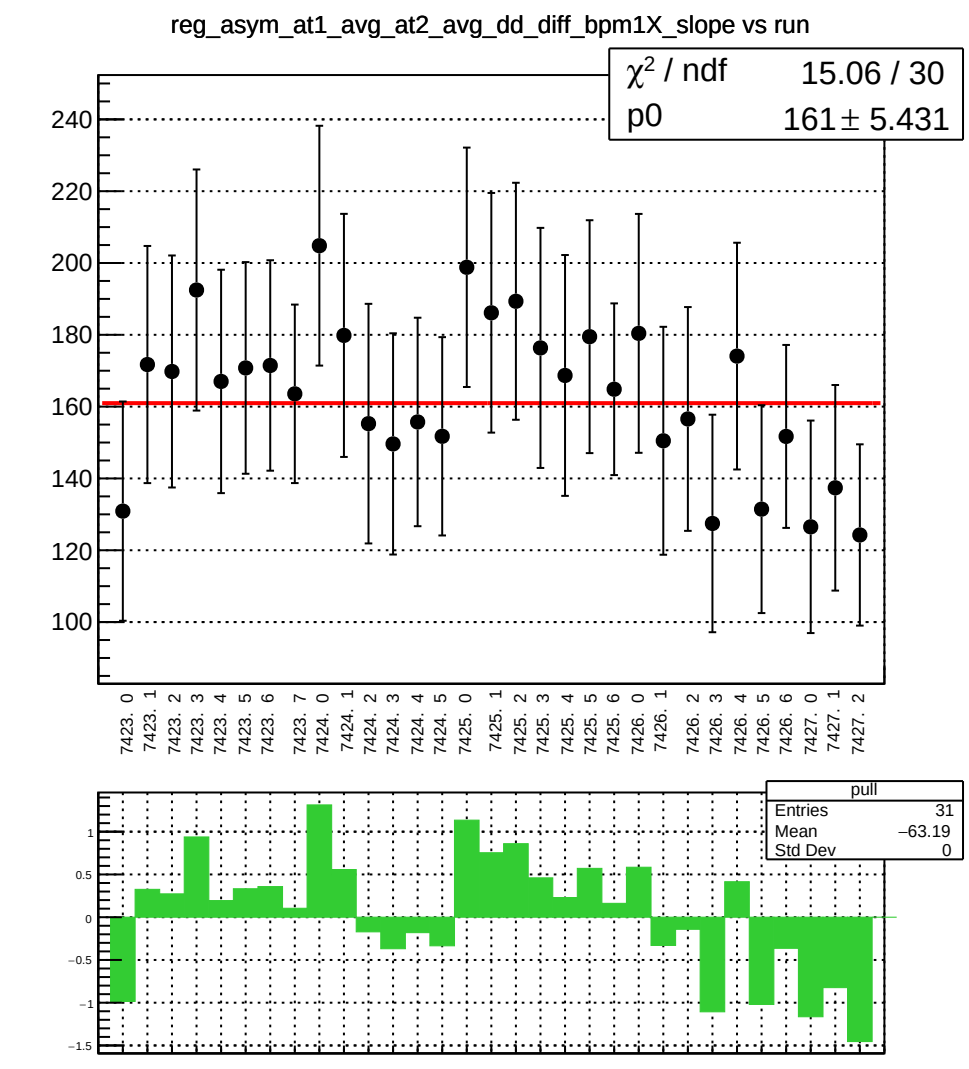

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.52 / 30
p0 4.948 ± 1.661
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 150.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.01715
Std Dev 0.9248
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

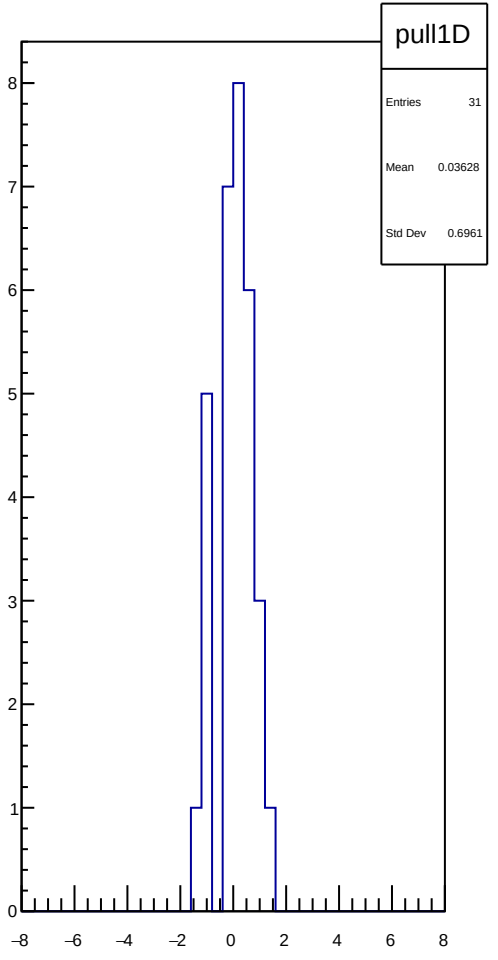

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.6 / 30
p0 −37.6 ± 1.795
0
−10
−20
−30
−40
−50
−60
−70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −79.66
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.04095
Std Dev 1.199
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

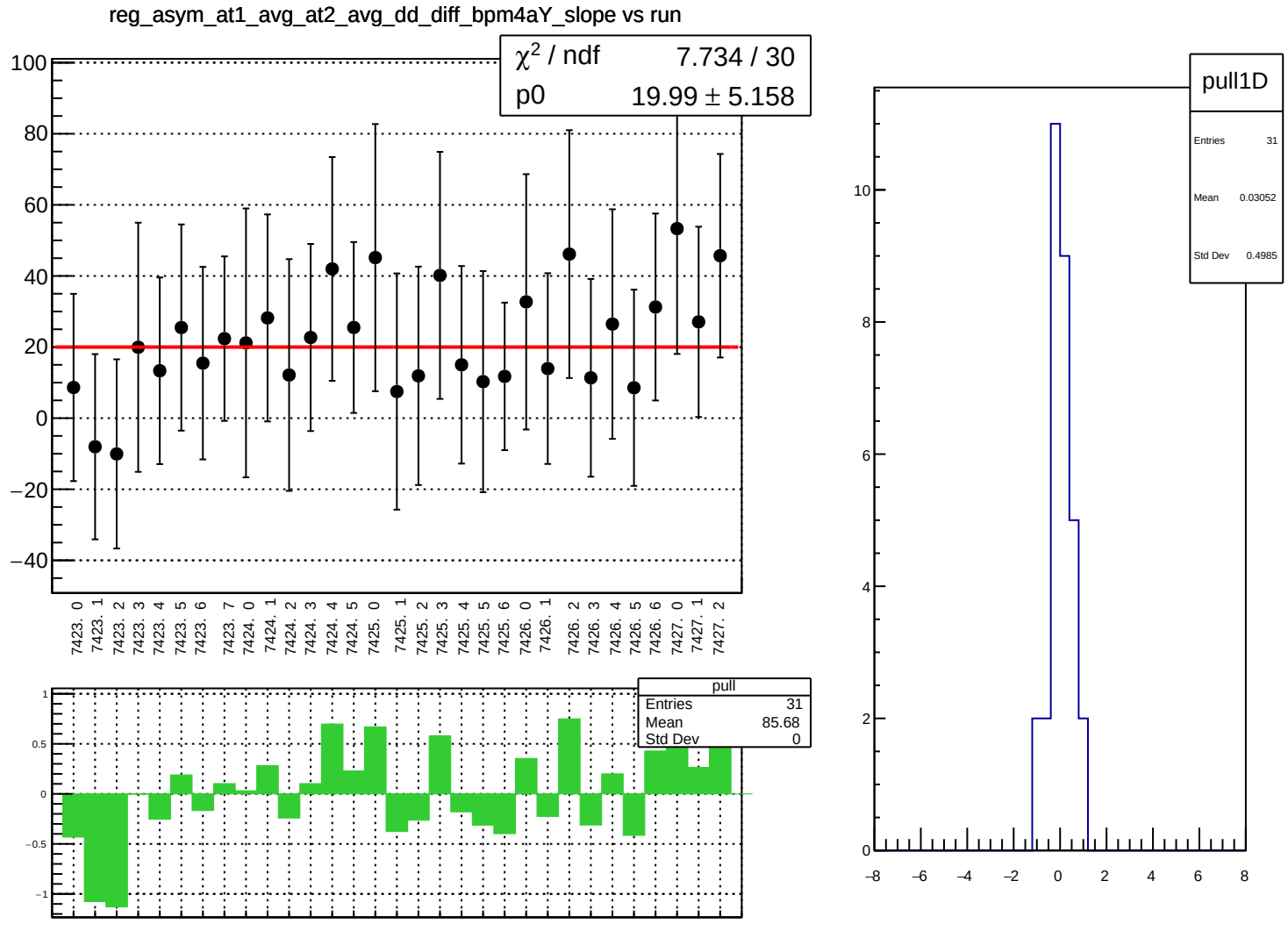

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.8 / 30
p0 −9.491 ± 1.766
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 143.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.01599
Std Dev 0.9121
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

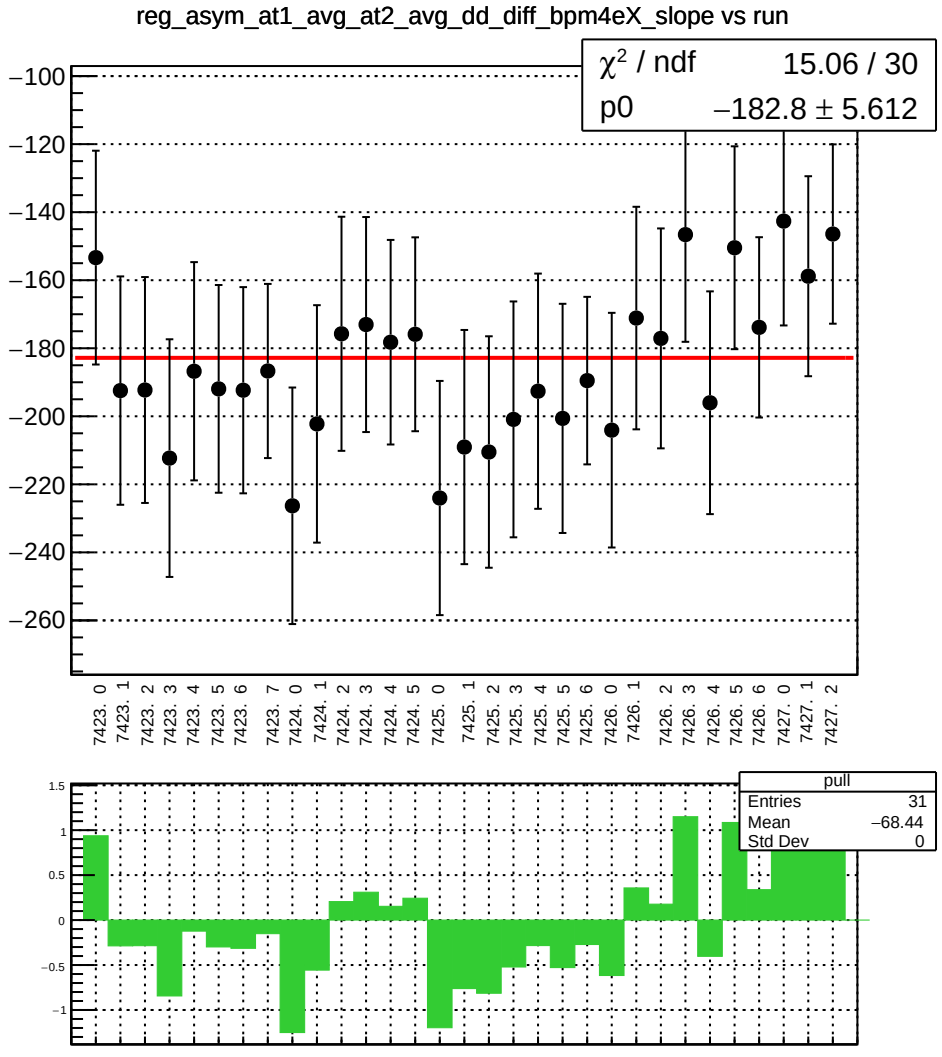

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 32.44 / 30
p0 13.91 ± 0.07601
15.5
15
14.5
14
13.5
13
12.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −58.75
Std Dev 0
2
1
0
−1
−2

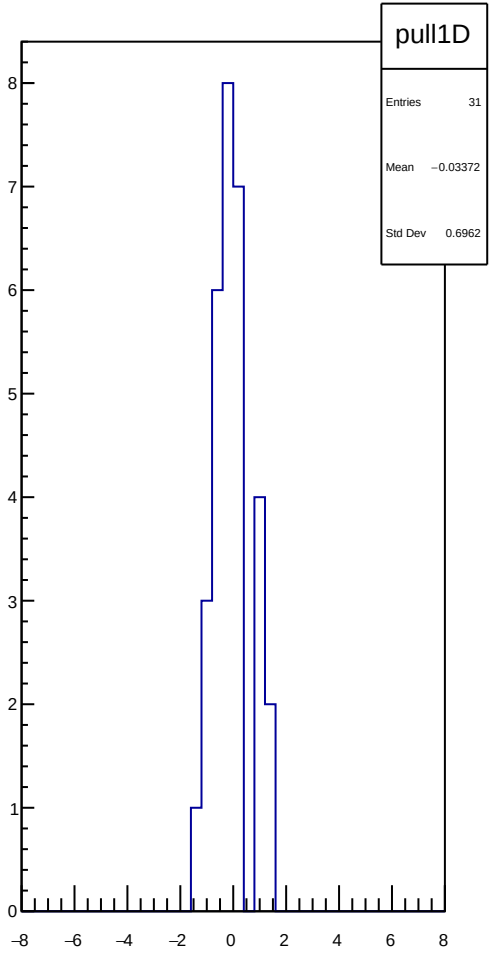

pull1D
Entries 31
Mean 0.01233
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

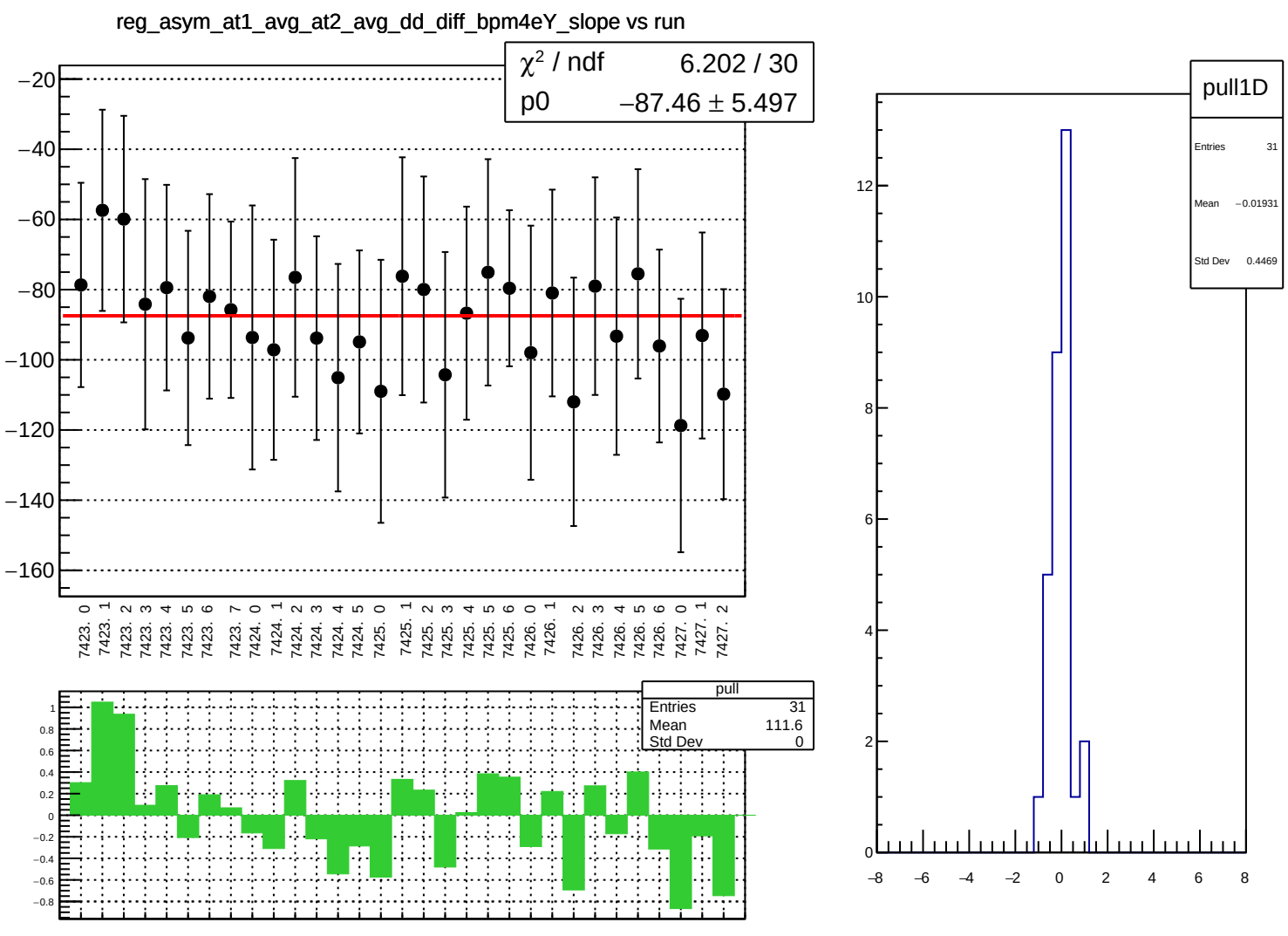

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 15.06 / 30
p0 161 ± 5.431
240
220
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −63.19
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

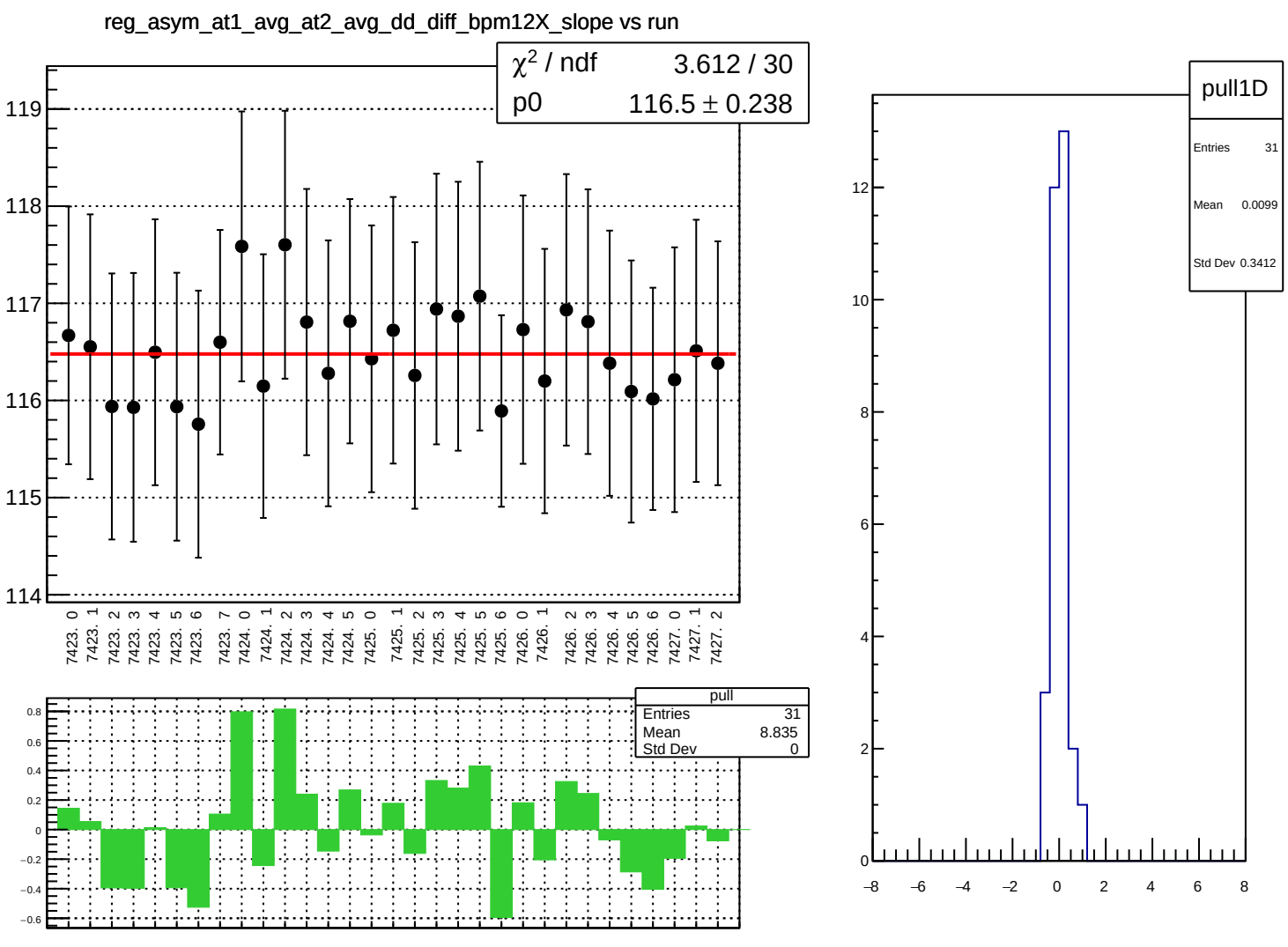

pull1D
Entries 31
Mean 0.03628
Std Dev 0.6961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

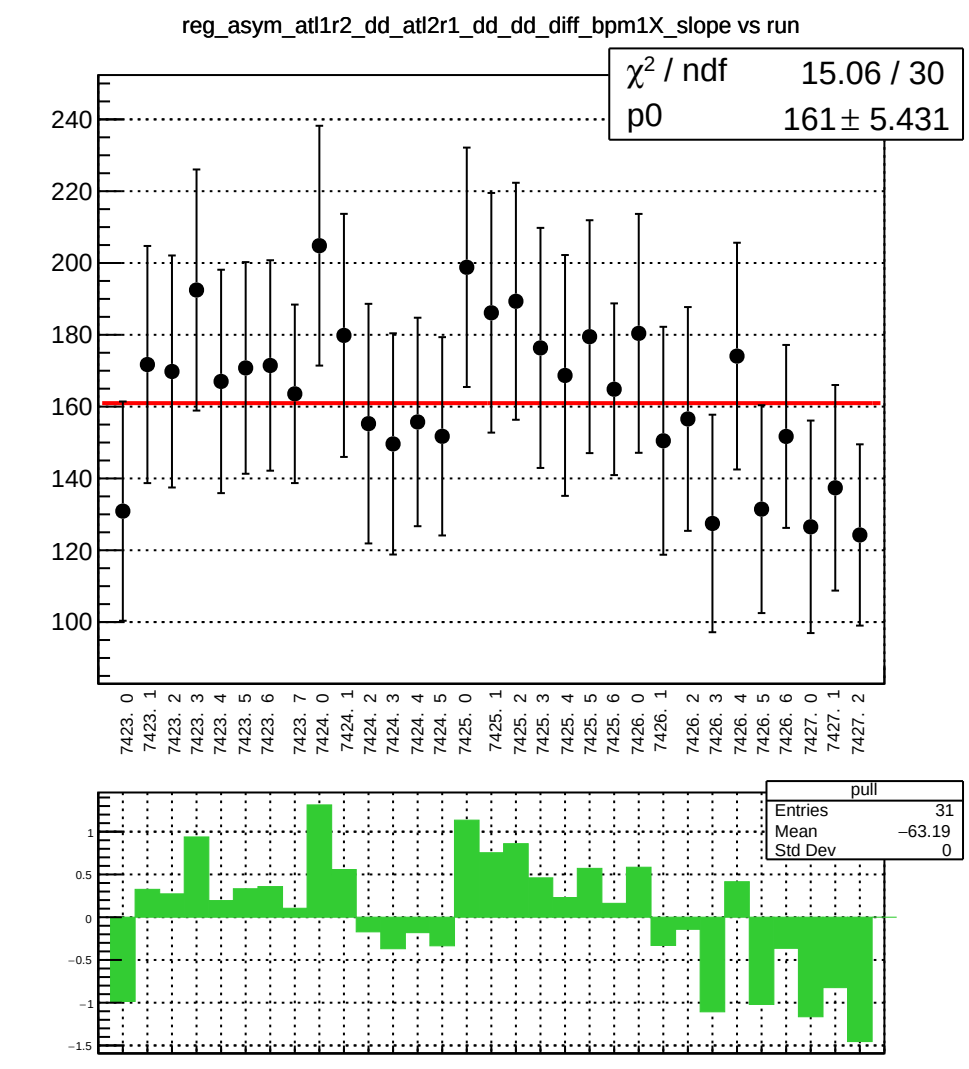

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.734 / 30
p0 19.99 ± 5.158
100
80
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 85.68
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.03052
Std Dev 0.4985
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

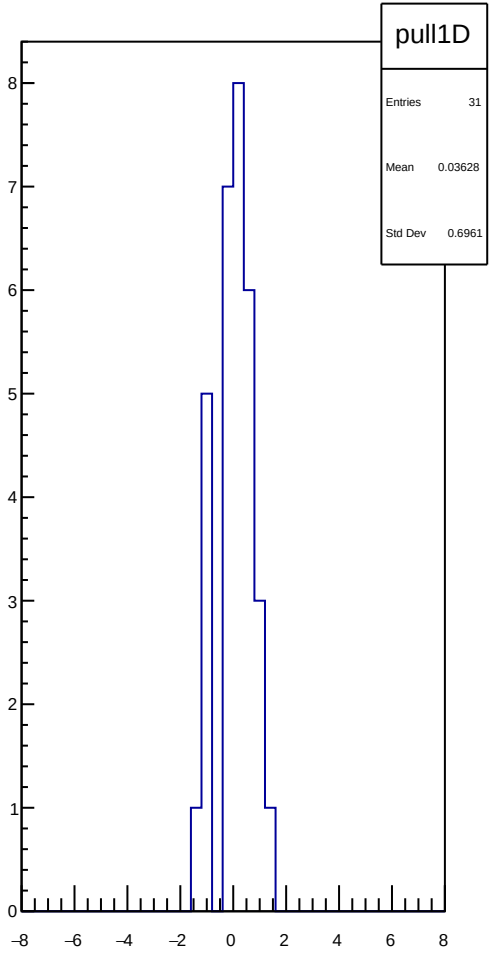

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.06 / 30
p0 −182.8 ± 5.612
pull
Entries 31
Mean −68.44
Std Dev 0

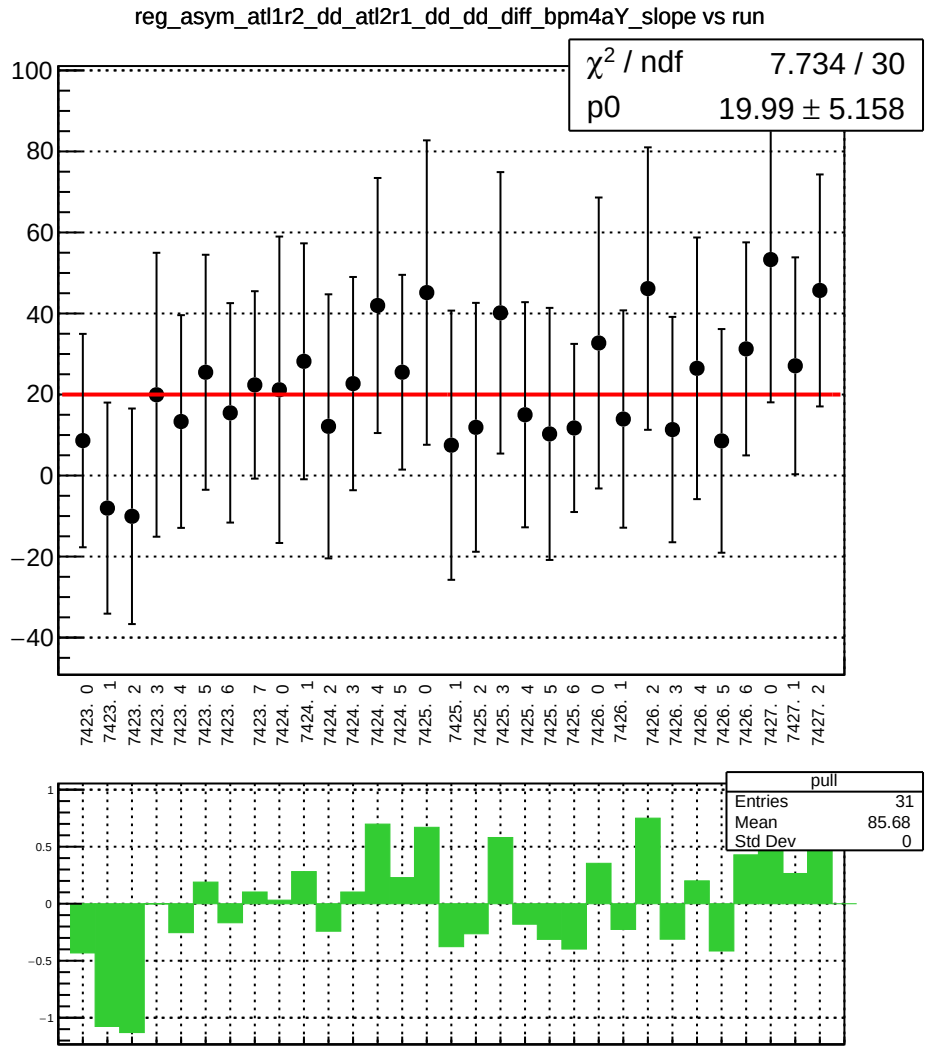

pull1D
Entries 31
Mean −0.03372
Std Dev 0.6962

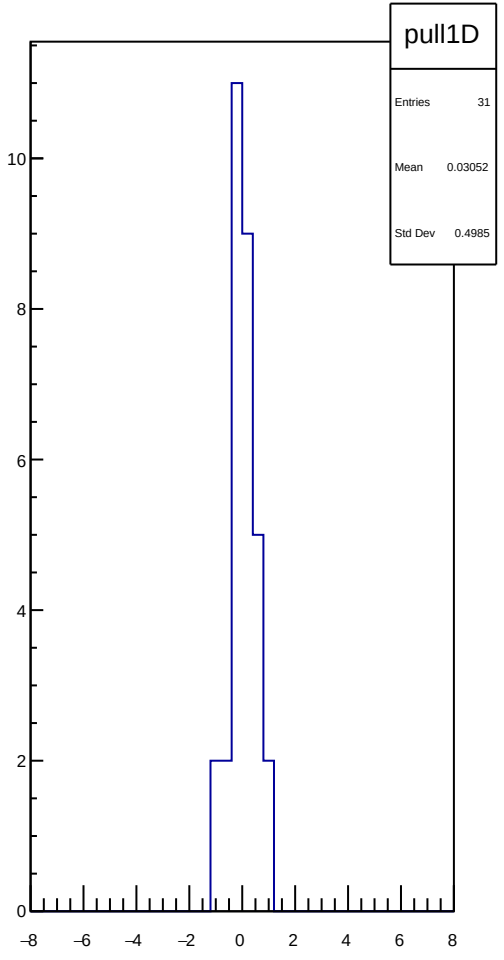

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.202 / 30
p0 −87.46 ± 5.497
−20
−40
−60
−80
−100
−120
−140
−160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 111.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean −0.01931
Std Dev 0.4469
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

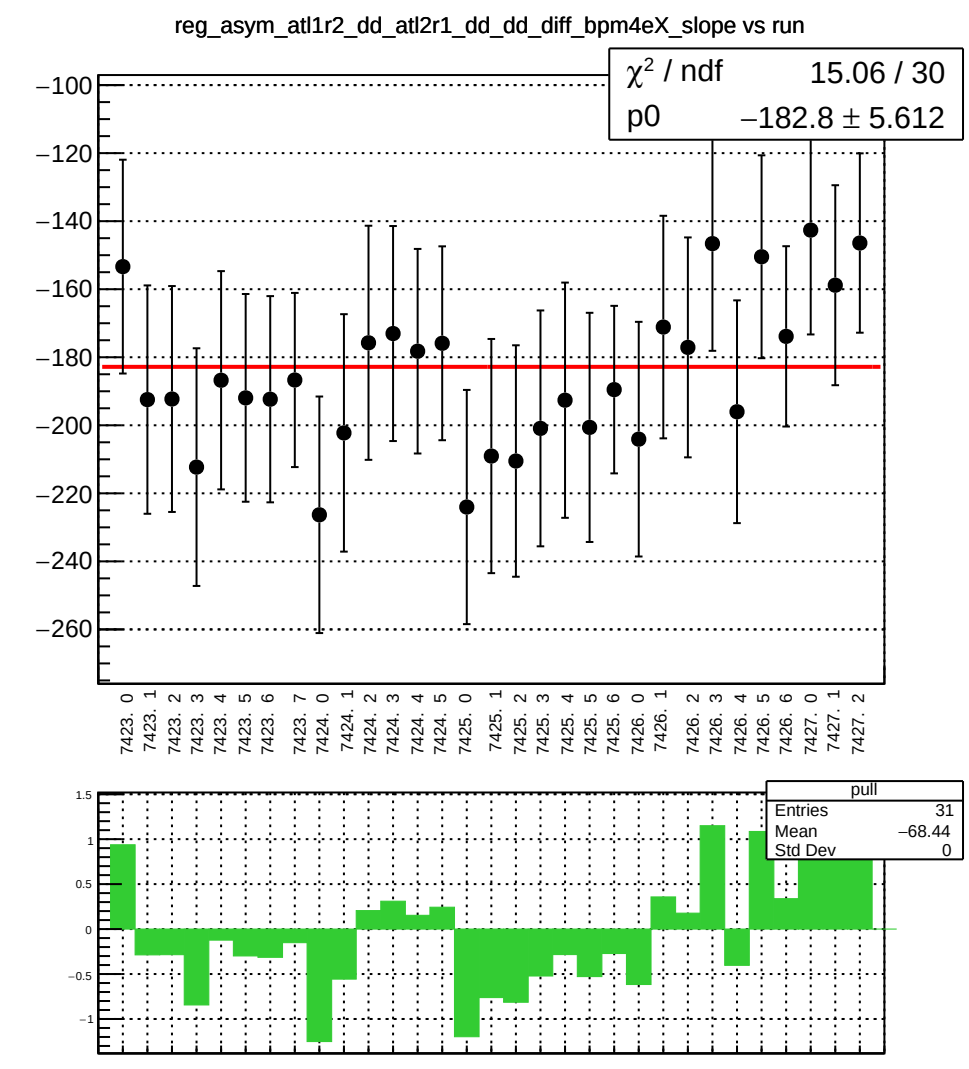

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 3.612 / 30
p0 116.5 ± 0.238
119
118
117
116
115
114
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.835
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean 0.0099
Std Dev 0.3412
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

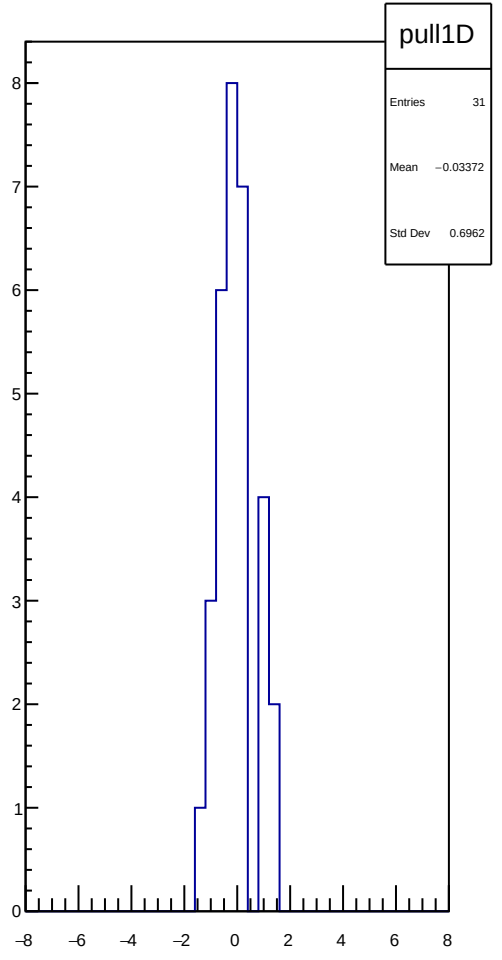

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 15.06 / 30
p0 161 ± 5.431
240
220
200
180
160
140
120
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −63.19
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

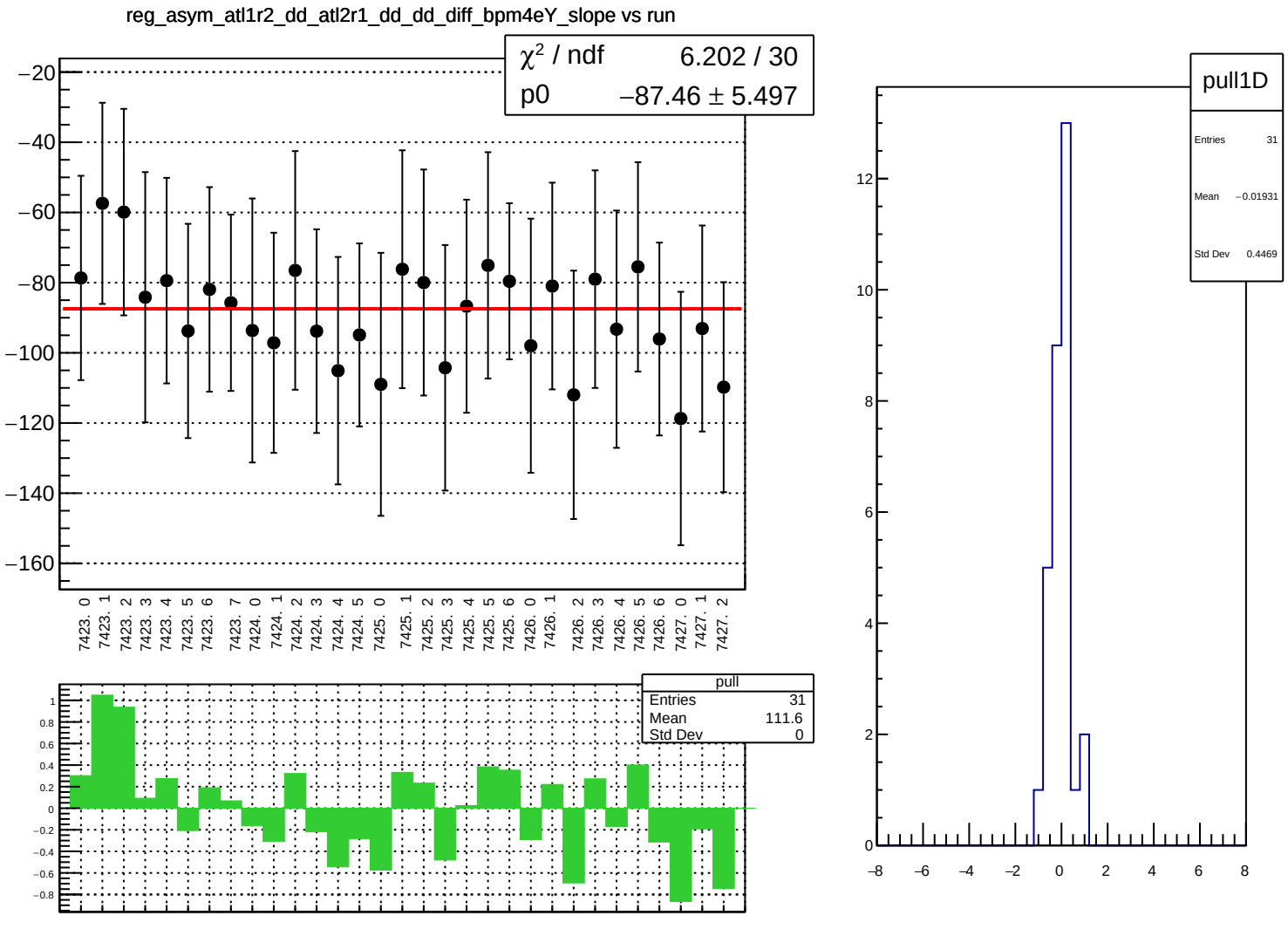

pull1D
Entries 31
Mean 0.03628
Std Dev 0.6961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

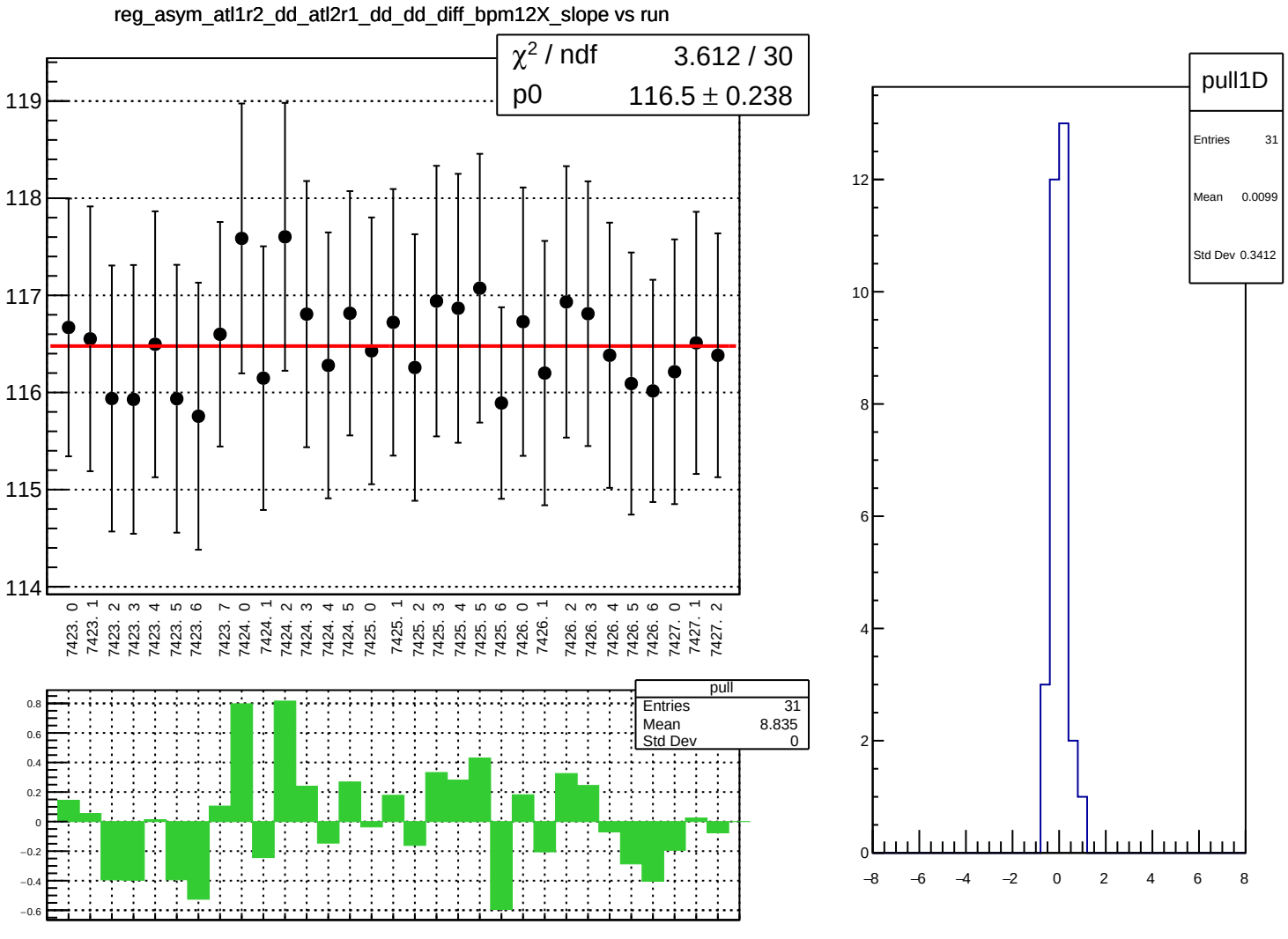

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.734 / 30
p0 19.99 ± 5.158
pull
Entries 31
Mean 85.68
Std Dev 0

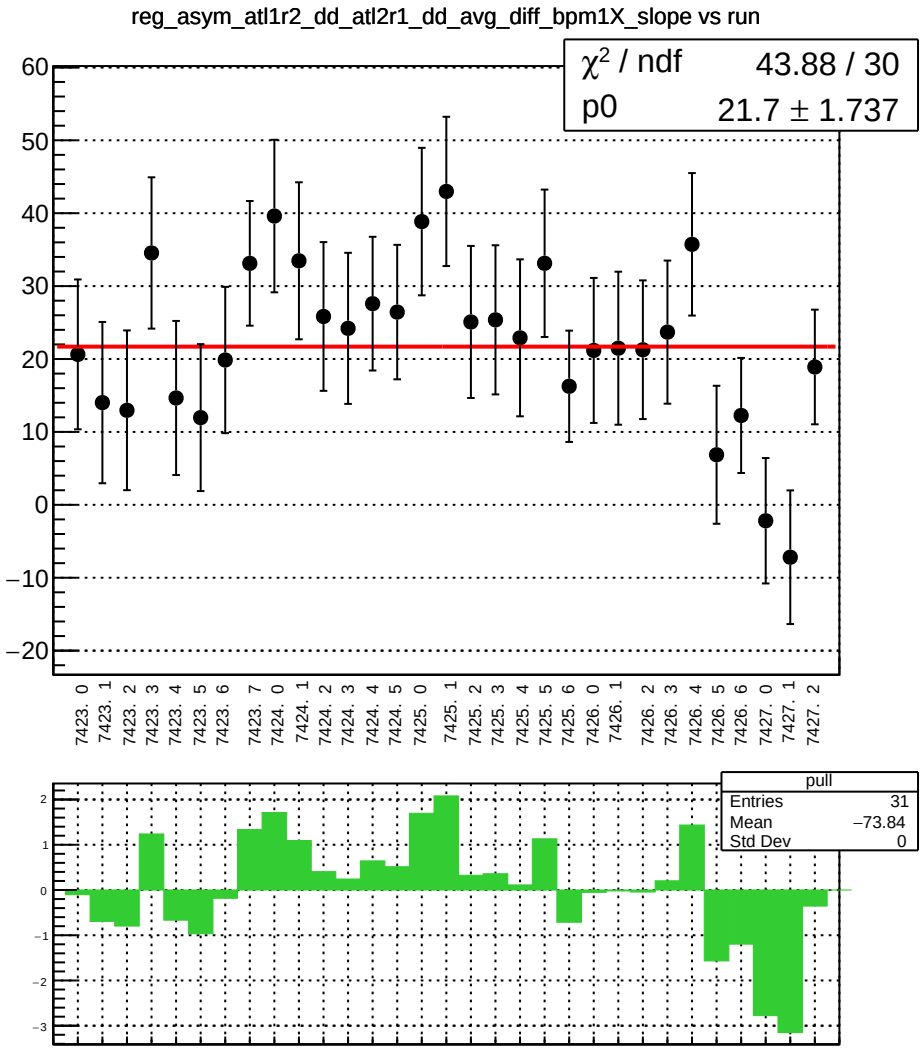

pull1D
Entries 31
Mean 0.03052
Std Dev 0.4985

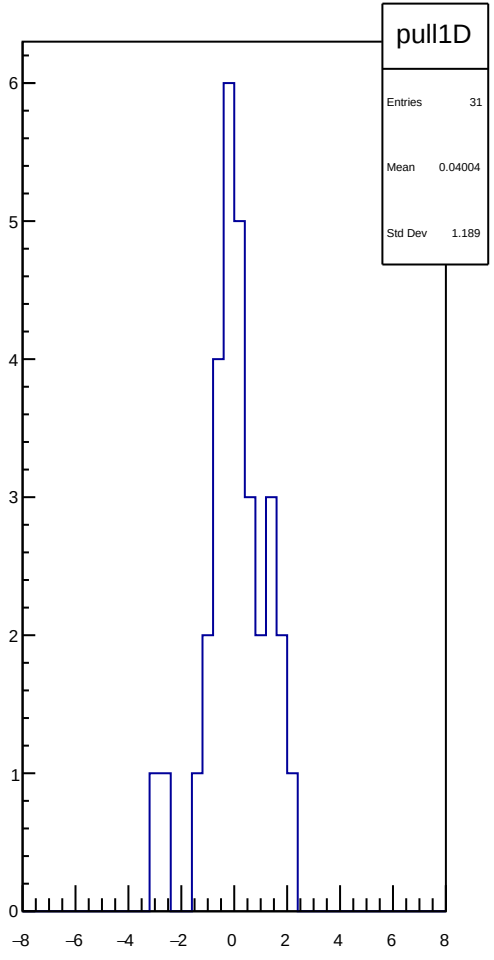

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.06 / 30
p0 −182.8 ± 5.612
pull
Entries 31
Mean −68.44
Std Dev 0

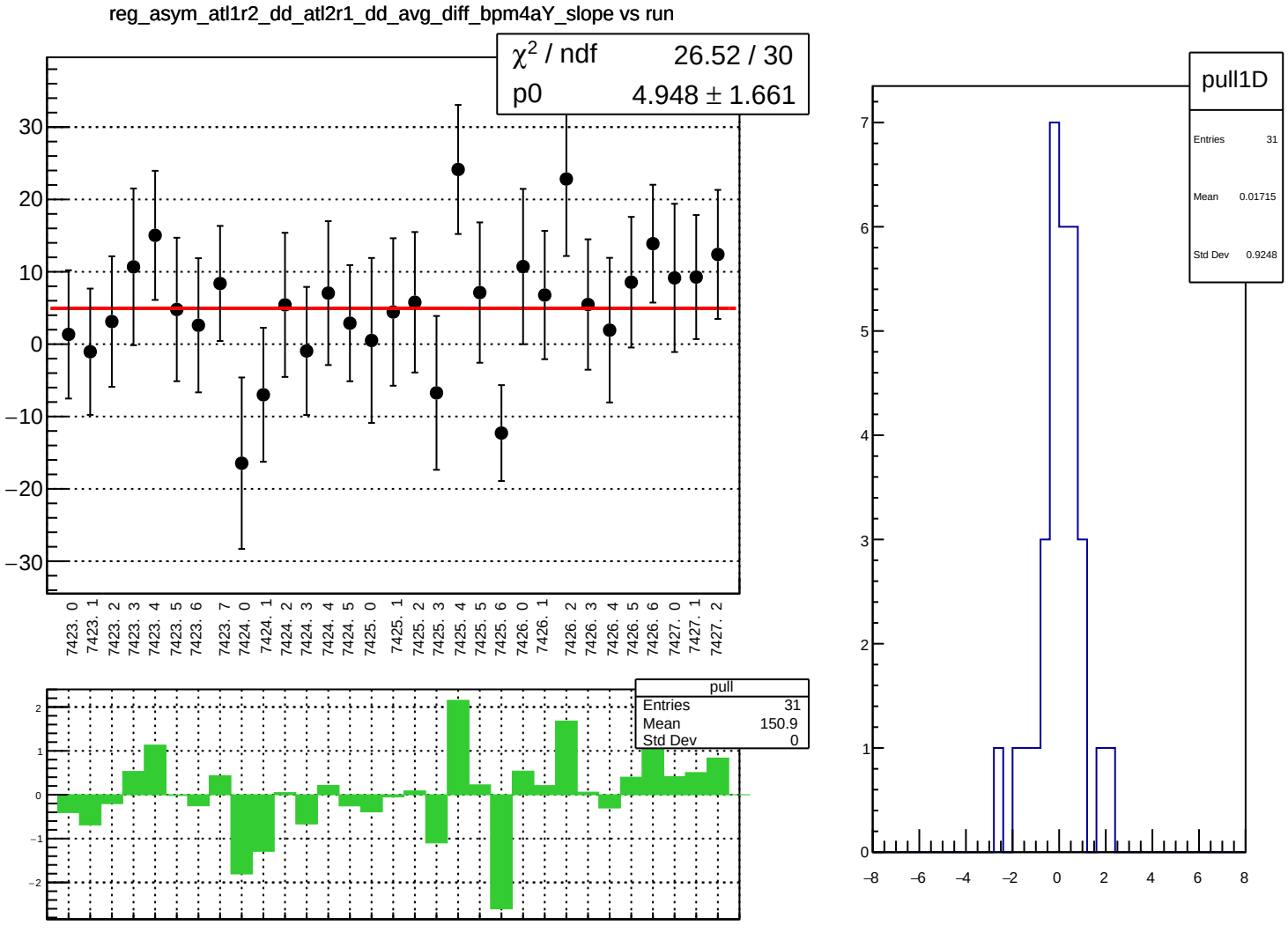

pull1D
Entries 31
Mean −0.03372
Std Dev 0.6962

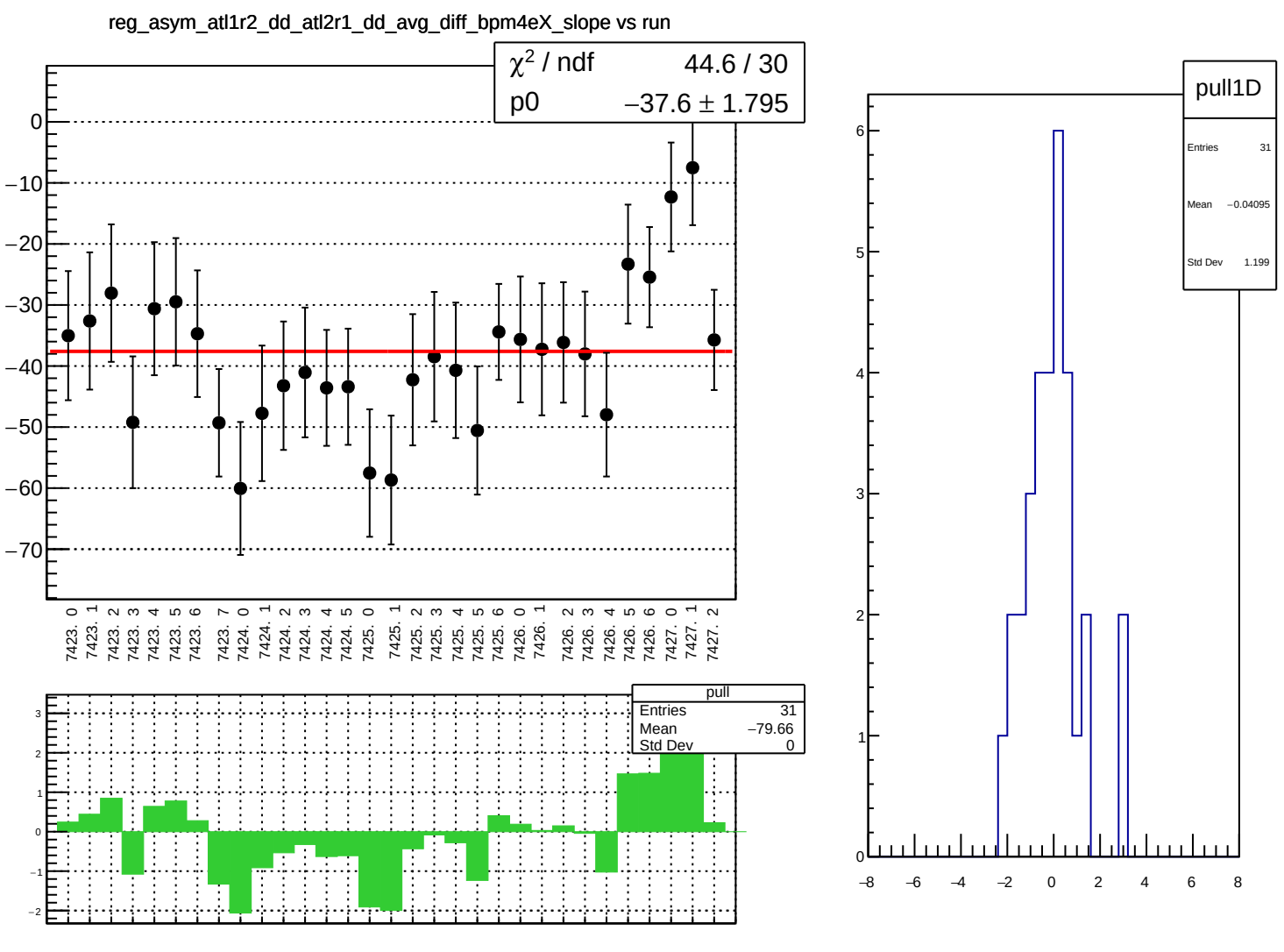

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.202 / 30
p0 −87.46 ± 5.497
−20
−40
−60
−80
−100
−120
−140
−160
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 111.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean −0.01931
Std Dev 0.4469
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

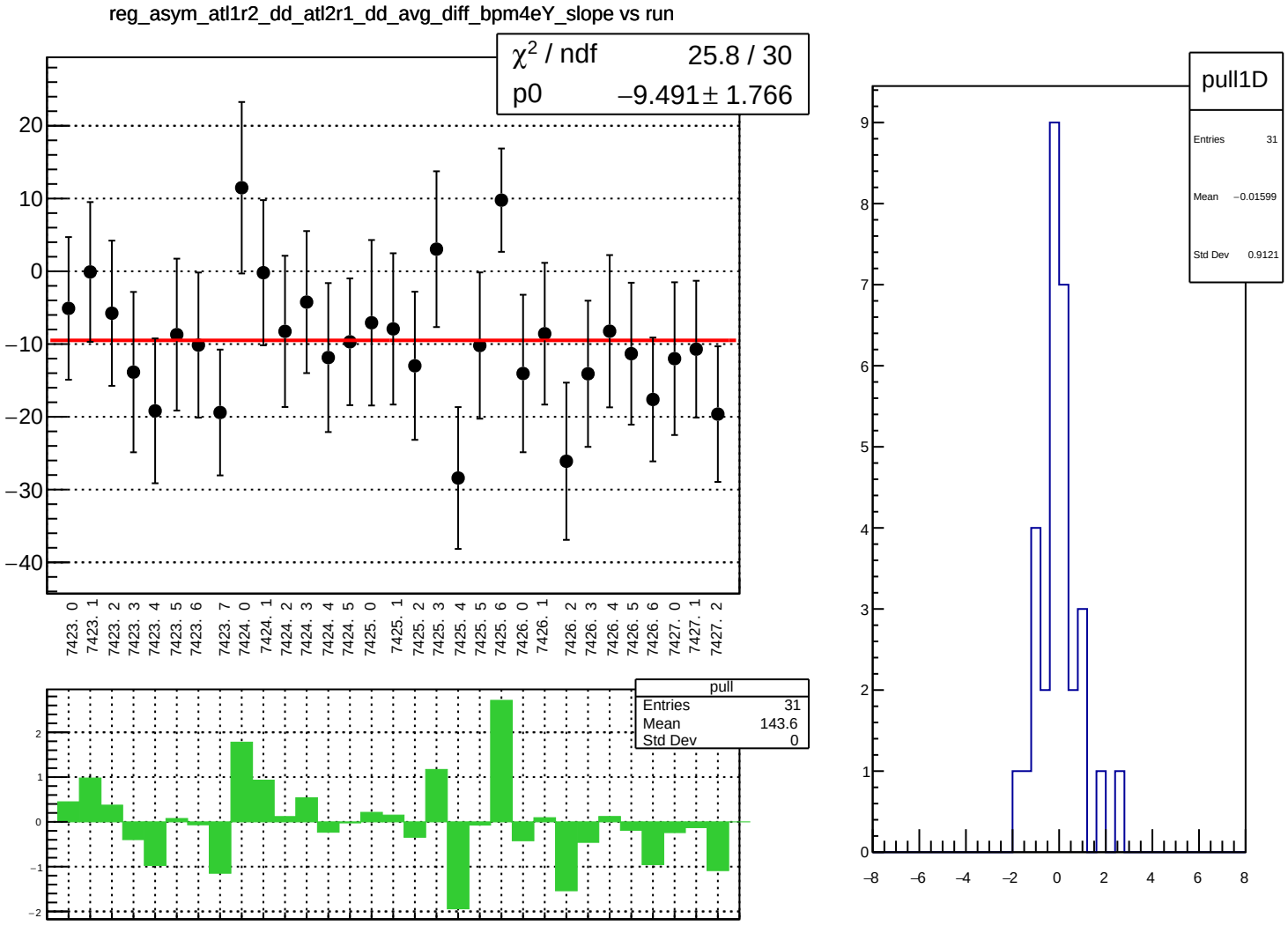

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 3.612 / 30
p0 116.5 ± 0.238
119
118
117
116
115
114
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 8.835
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean 0.0099
Std Dev 0.3412
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

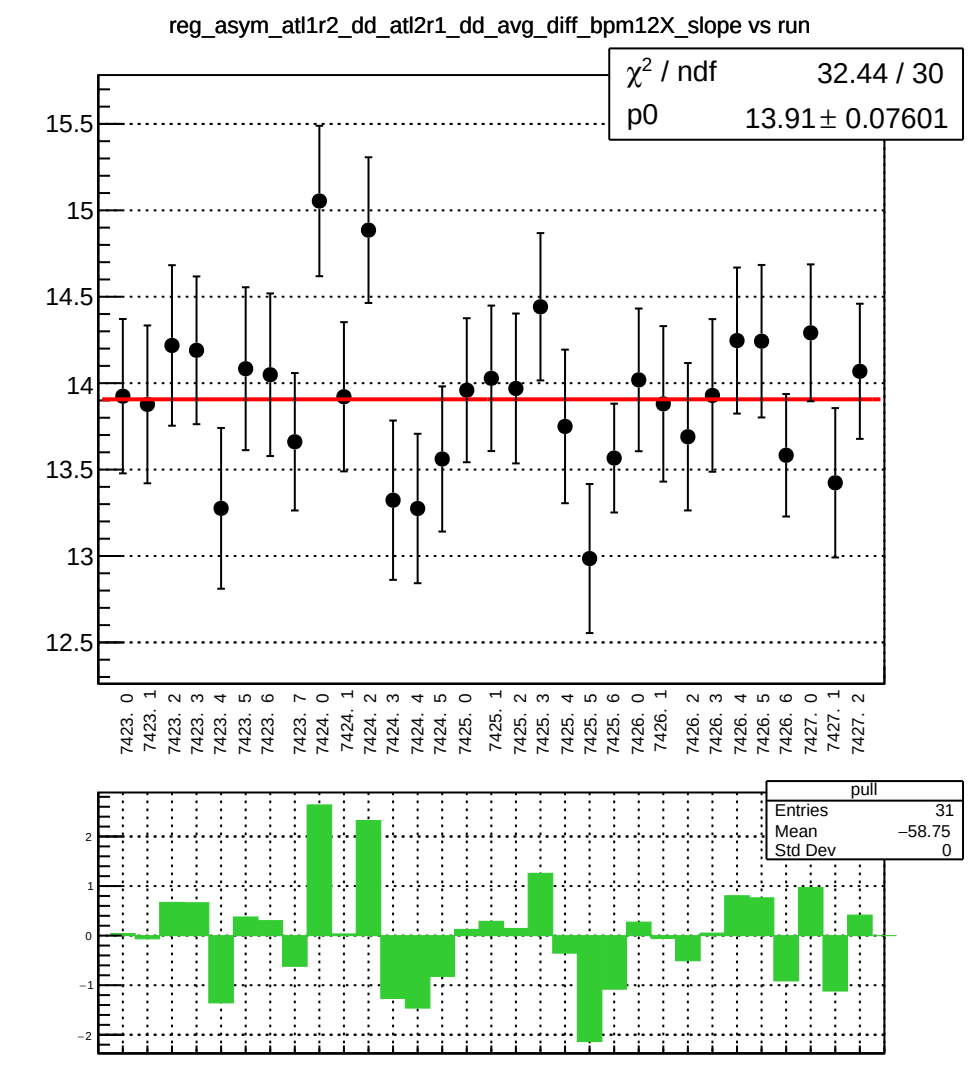

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 43.88 / 30
p0 21.7 ± 1.737
pull
Entries 31
Mean −73.84
Std Dev 0

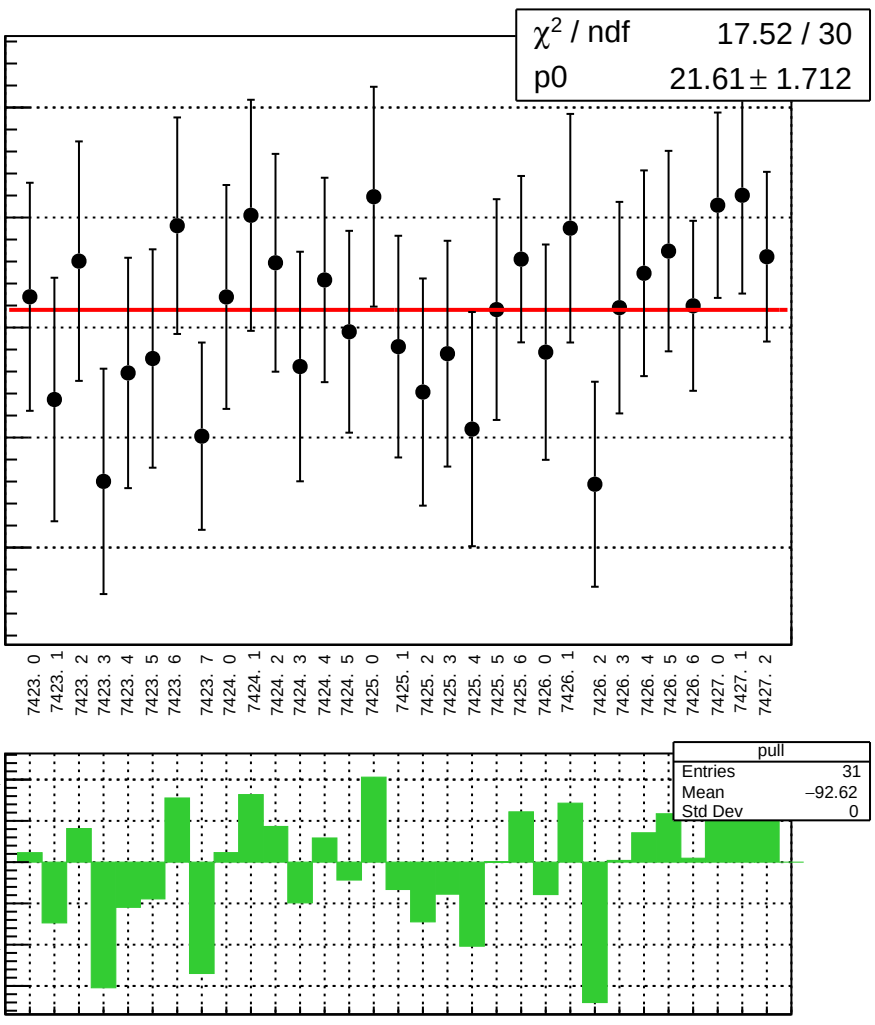

pull1D
Entries 31
Mean 0.04004
Std Dev 1.189

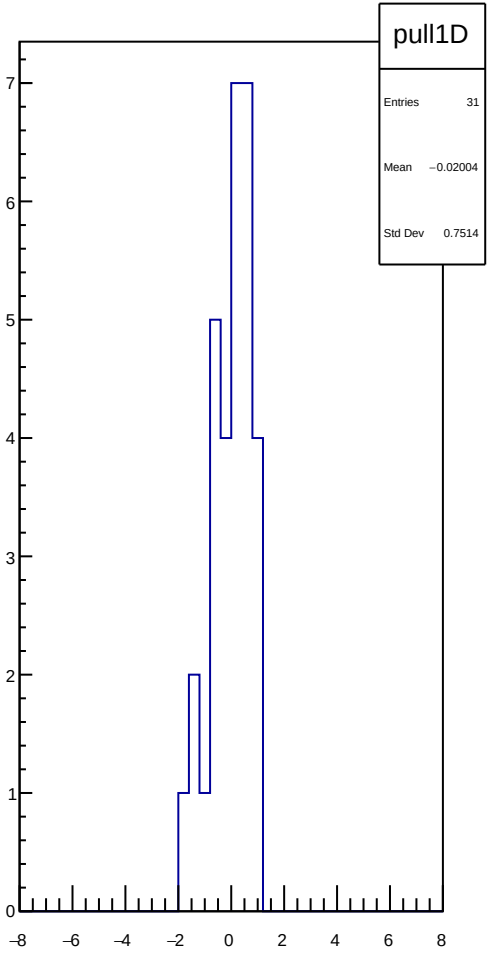

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.52 / 30
p0 4.948 ± 1.661
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 150.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.01715
Std Dev 0.9248
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

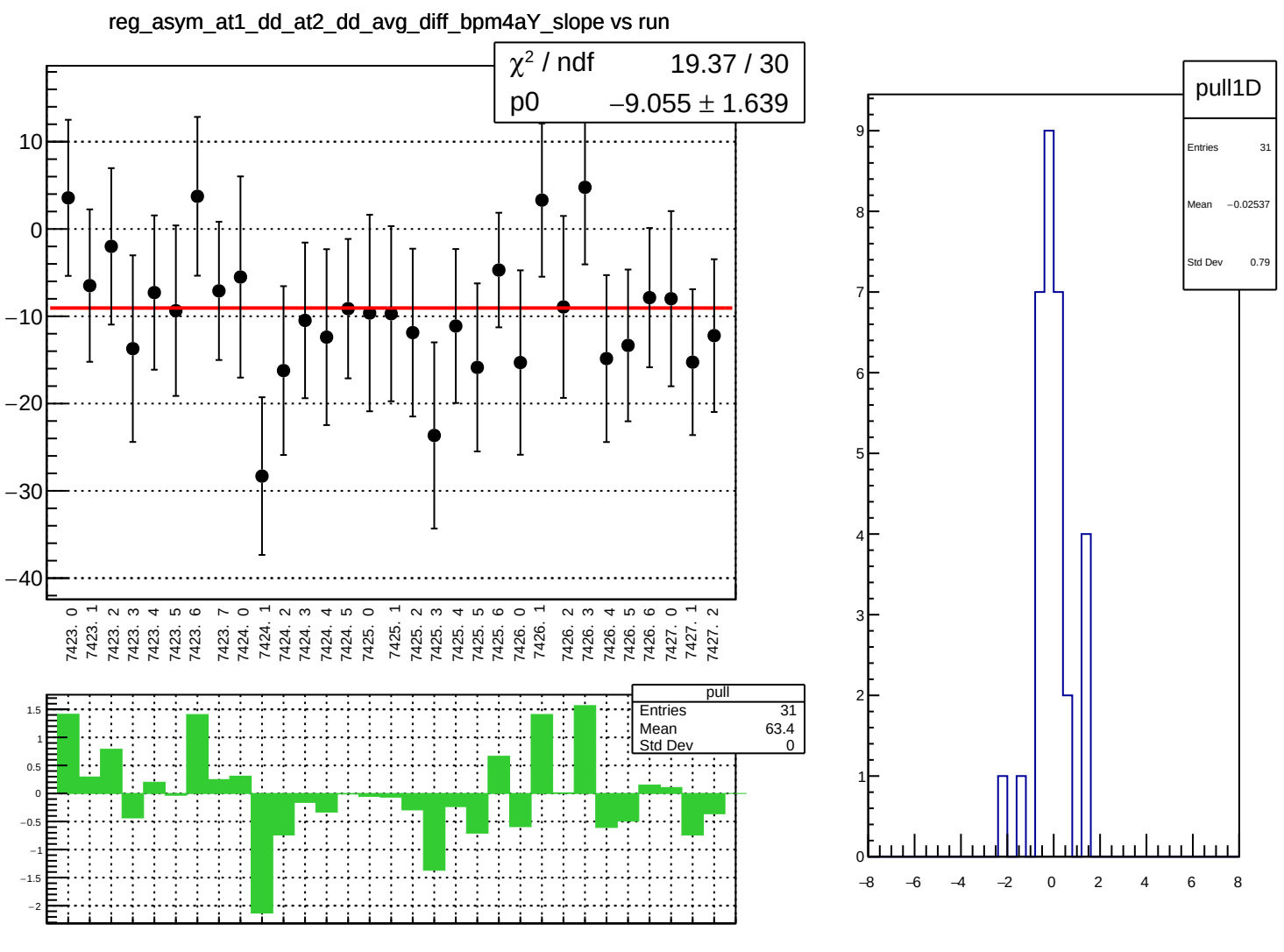

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.6 / 30
p0 −37.6 ± 1.795
0
−10
−20
−30
−40
−50
−60
−70
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −79.66
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.04095
Std Dev 1.199
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

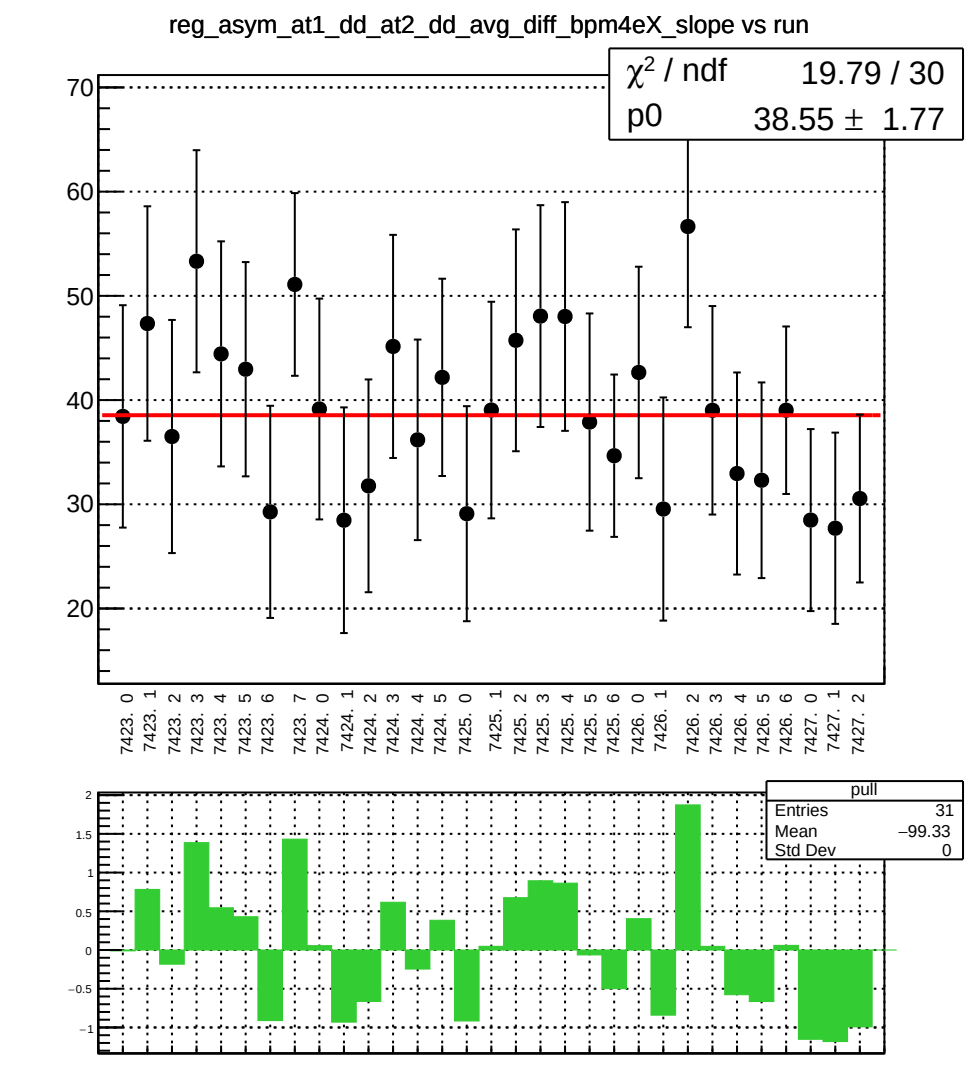

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.8 / 30
p0 −9.491 ± 1.766
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 143.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.01599
Std Dev 0.9121
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

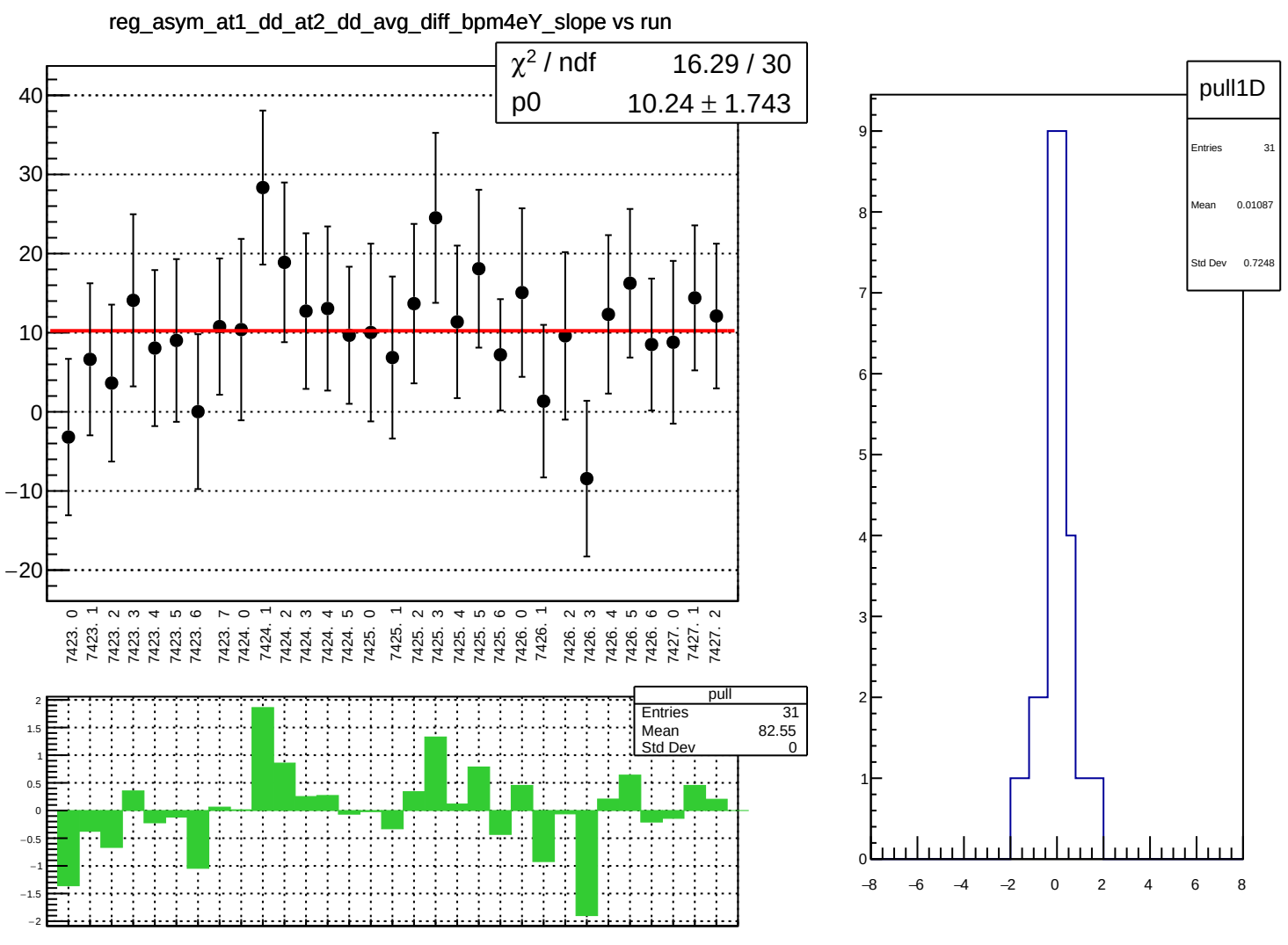

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 32.44 / 30
p0 13.91 ± 0.07601
15.5
15
14.5
14
13.5
13
12.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −58.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.01233
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

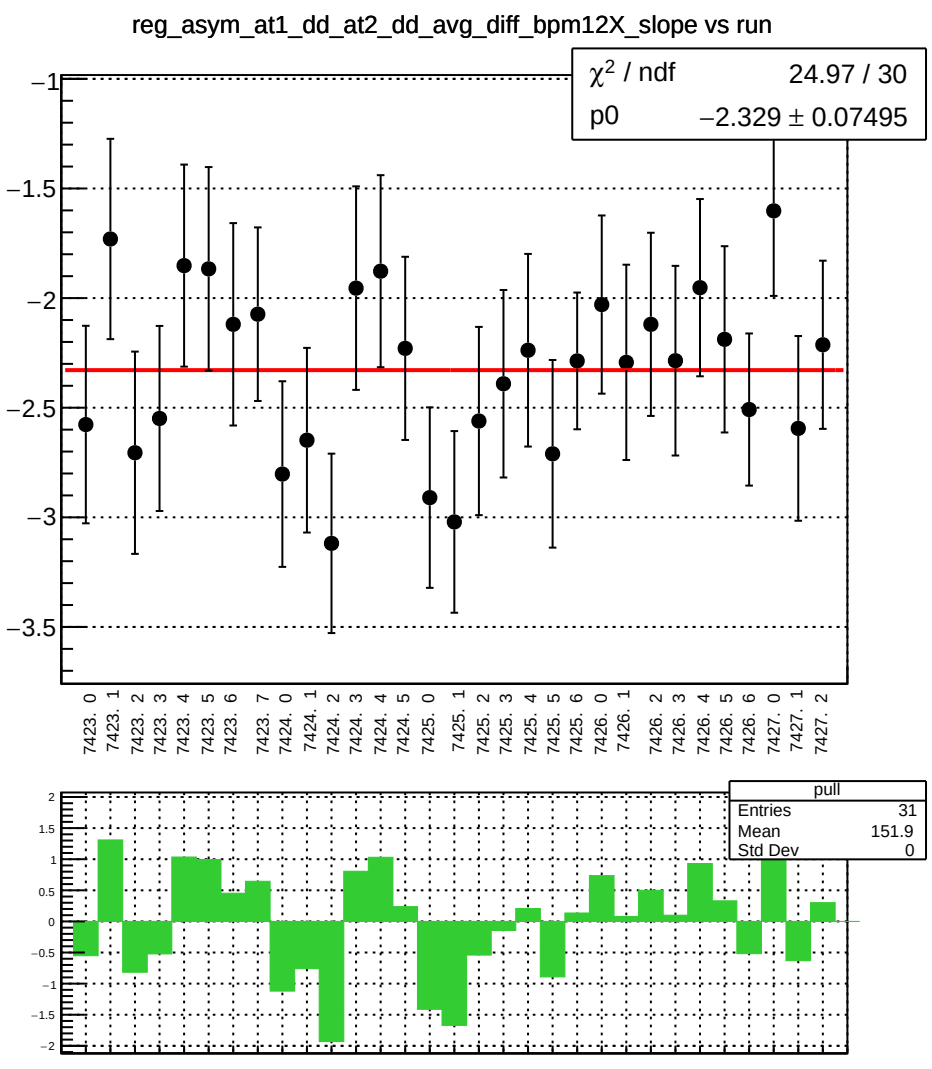

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 17.52 / 30
p0 21.61 ± 1.712
40
30
20
10
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −92.62
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

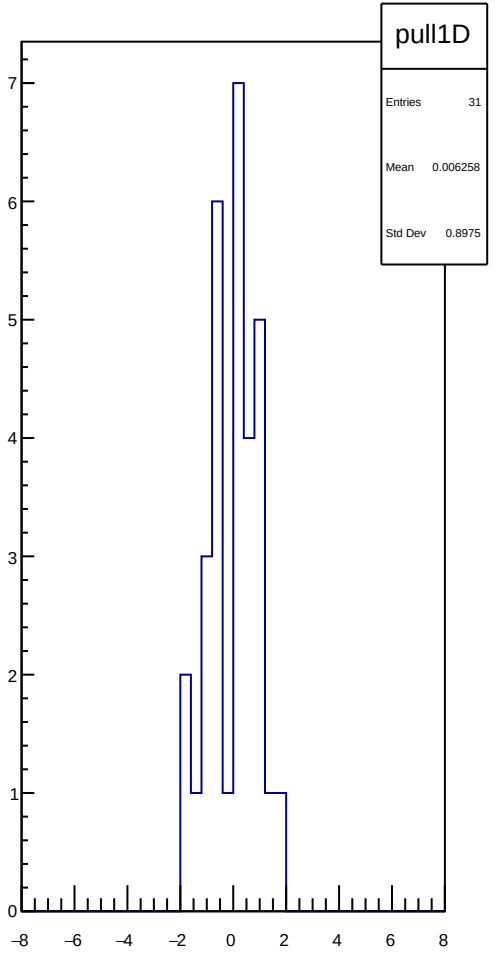

pull1D
Entries 31
Mean −0.02004
Std Dev 0.7514
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

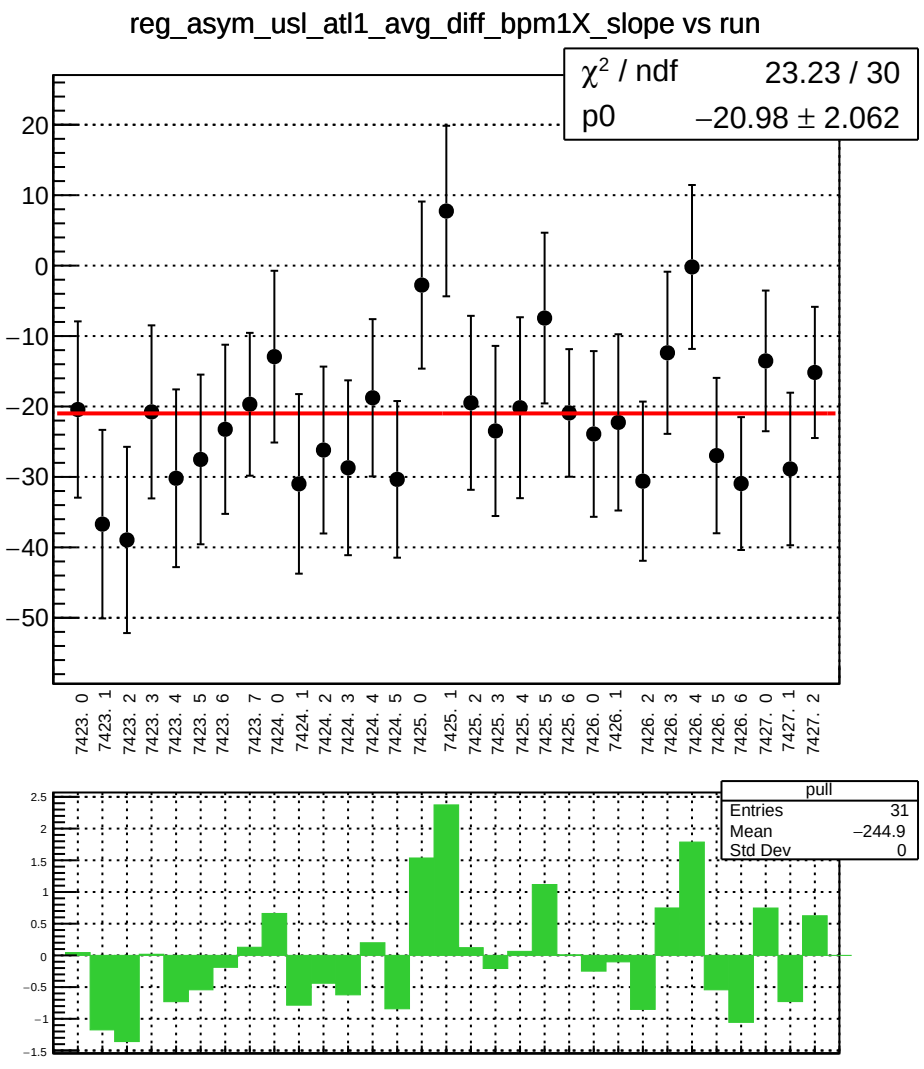

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.37 / 30
p0 −9.055 ± 1.639
pull
Entries 31
Mean 63.4
Std Dev 0
pull1D
Entries 31
Mean −0.02537
Std Dev 0.79

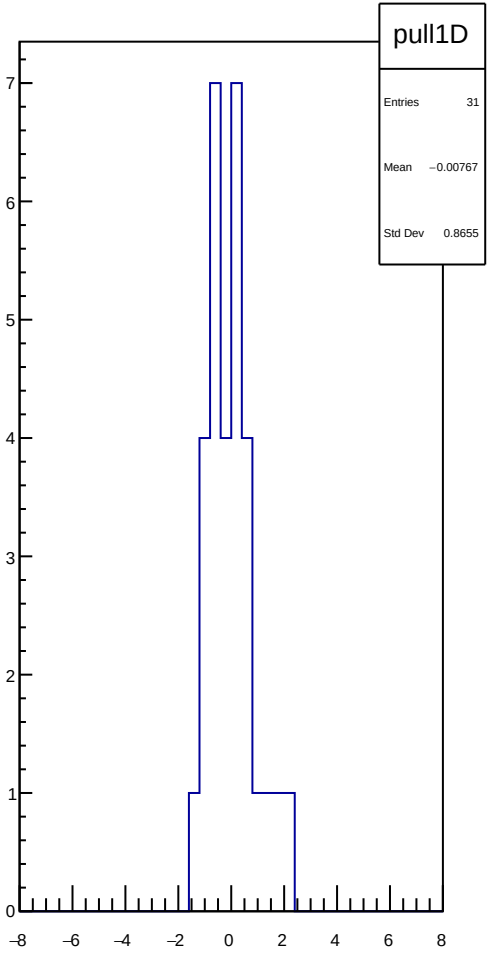

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.79 / 30
p0 38.55 ± 1.77
70
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −99.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.0214
Std Dev 0.7987
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

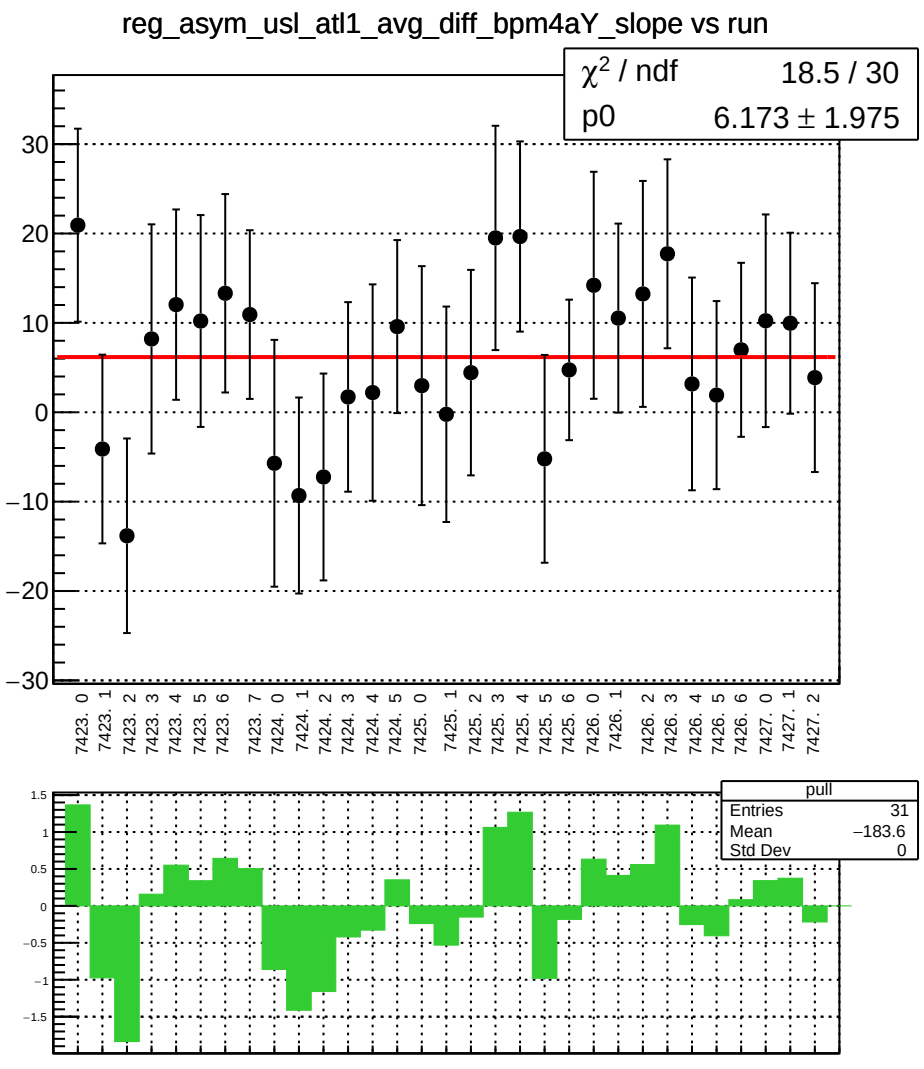

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.29 / 30
p0 10.24 ± 1.743
40
30
20
10
0
−10
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 82.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01087
Std Dev 0.7248
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

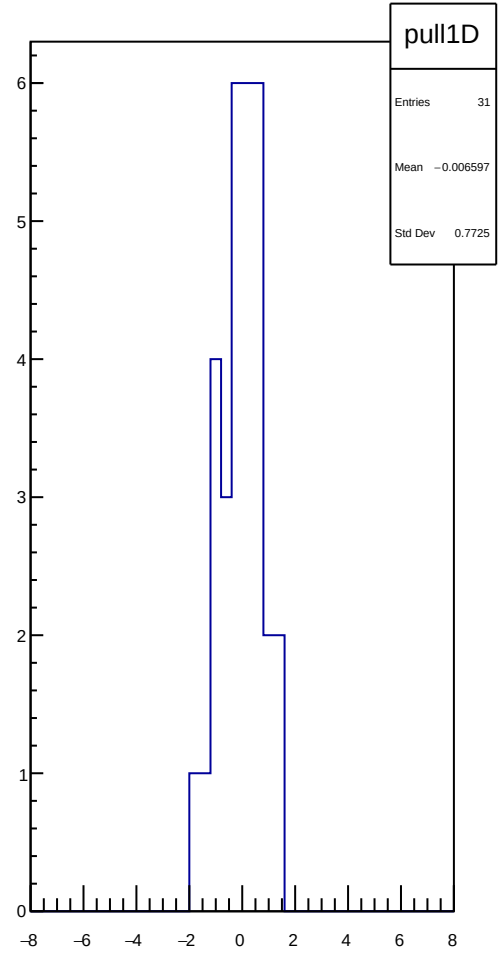

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 24.97 / 30
p0 −2.329 ± 0.07495
−1
−1.5
−2
−2.5
−3
−3.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 151.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

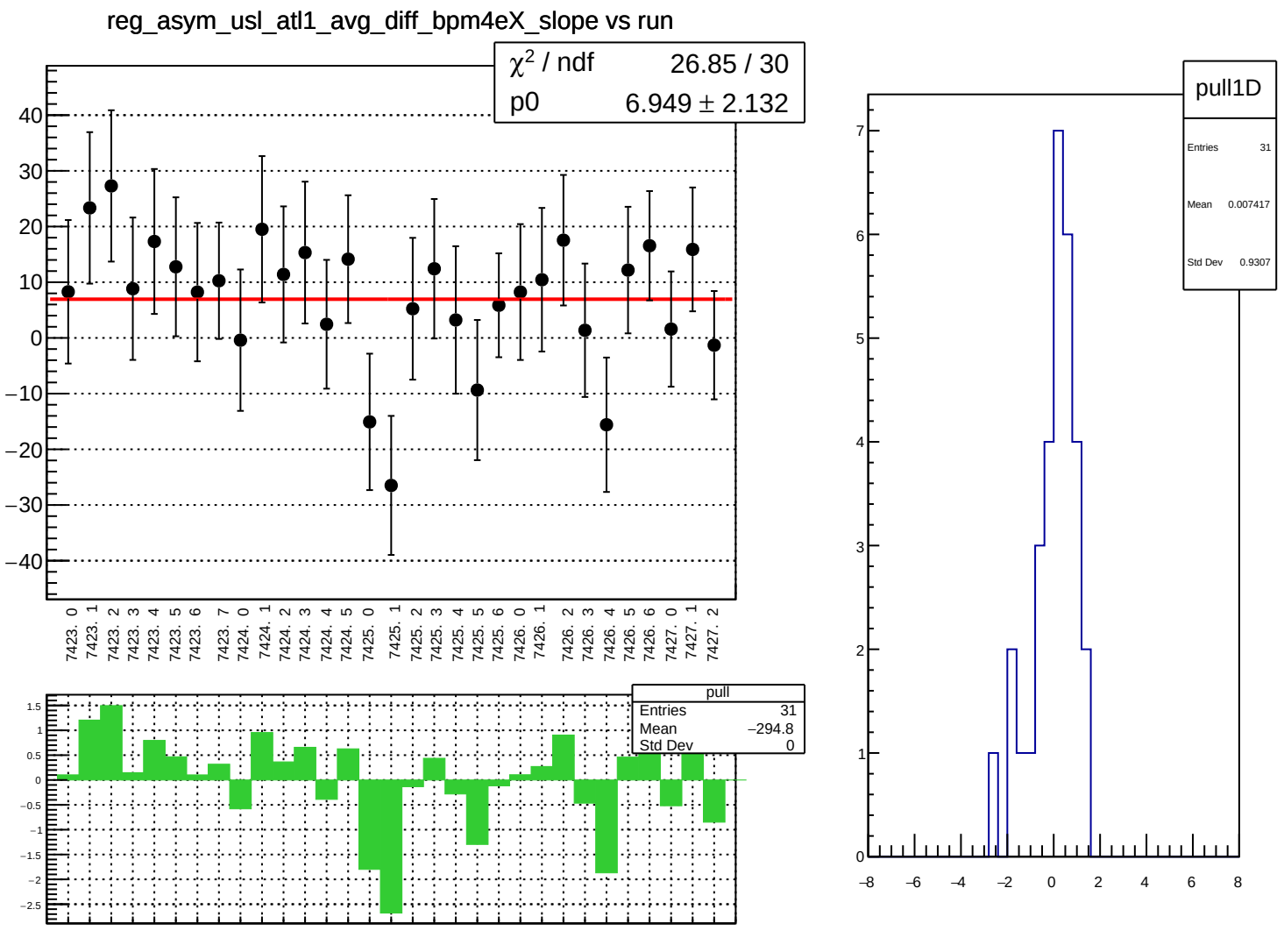

pull1D
Entries 31
Mean 0.006258
Std Dev 0.8975
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

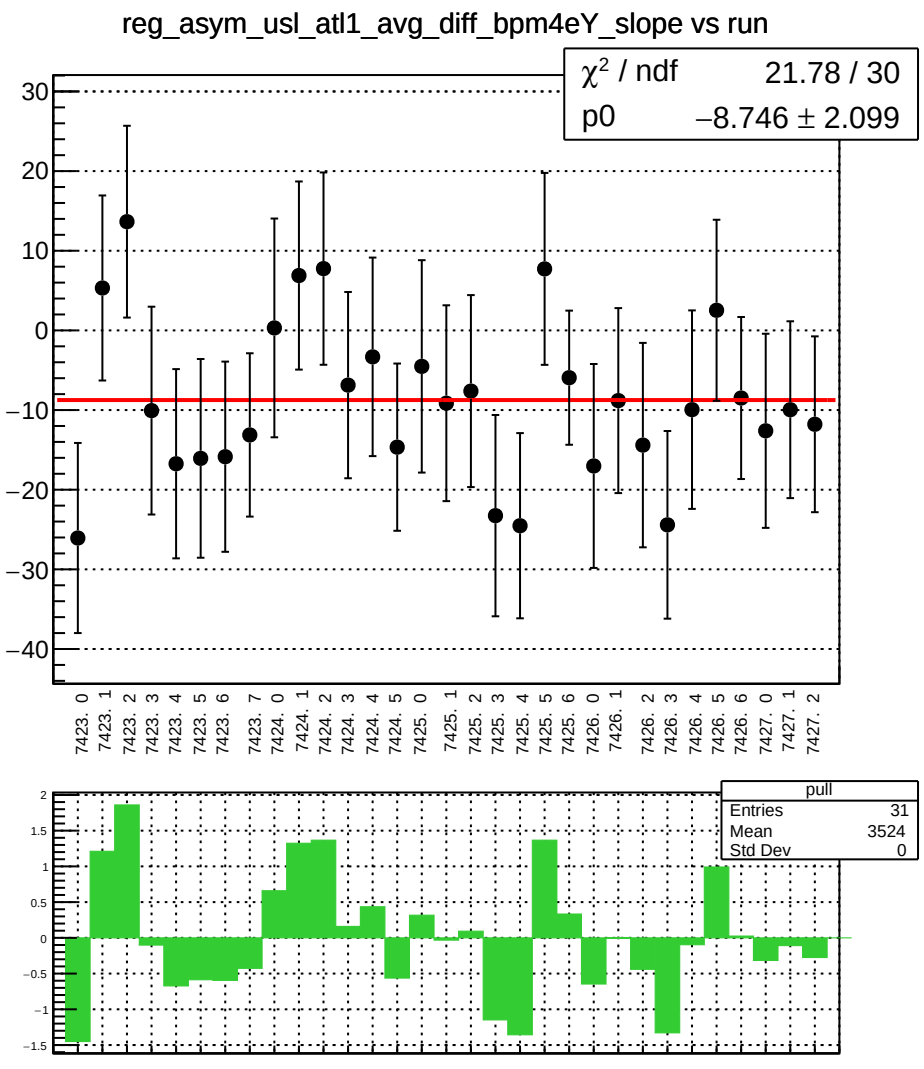

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 23.23 / 30
p0 −20.98 ± 2.062
pull
Entries 31
Mean −244.9
Std Dev 0

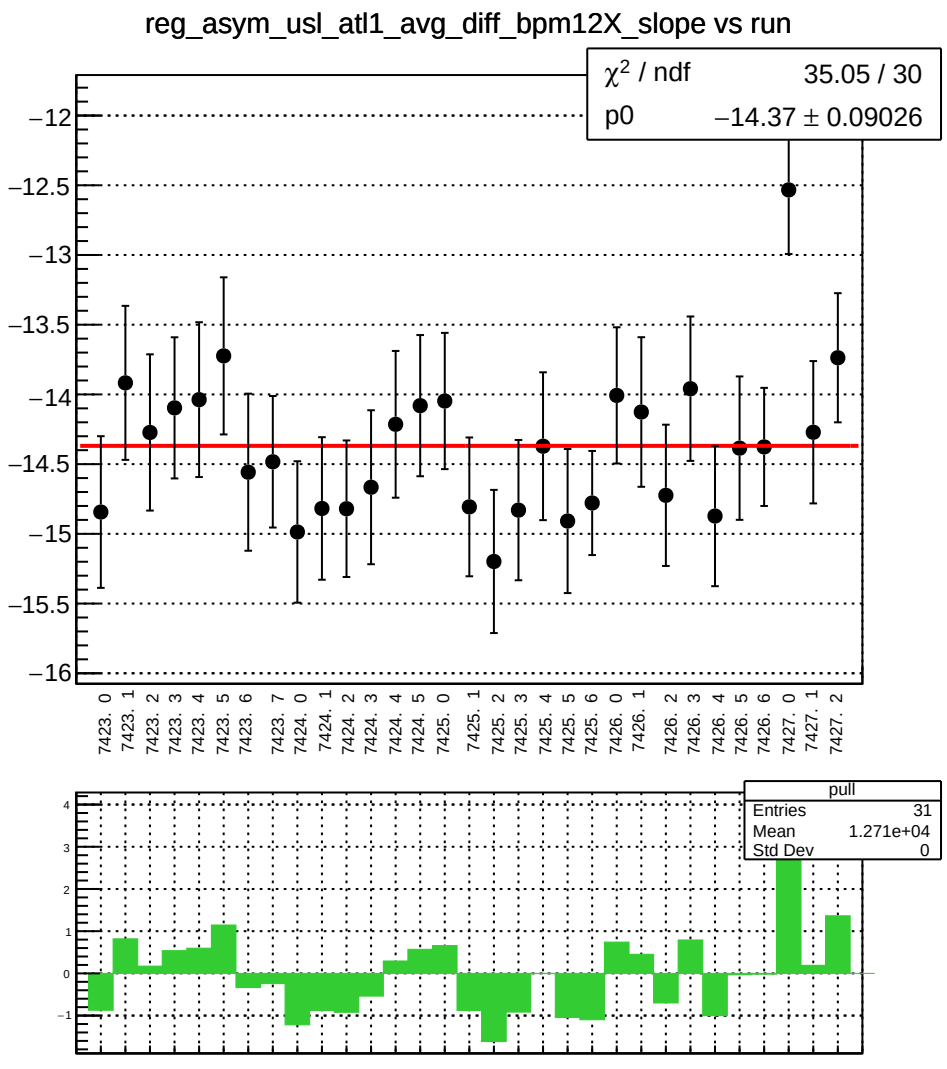

pull1D
Entries 31
Mean −0.00767
Std Dev 0.8655

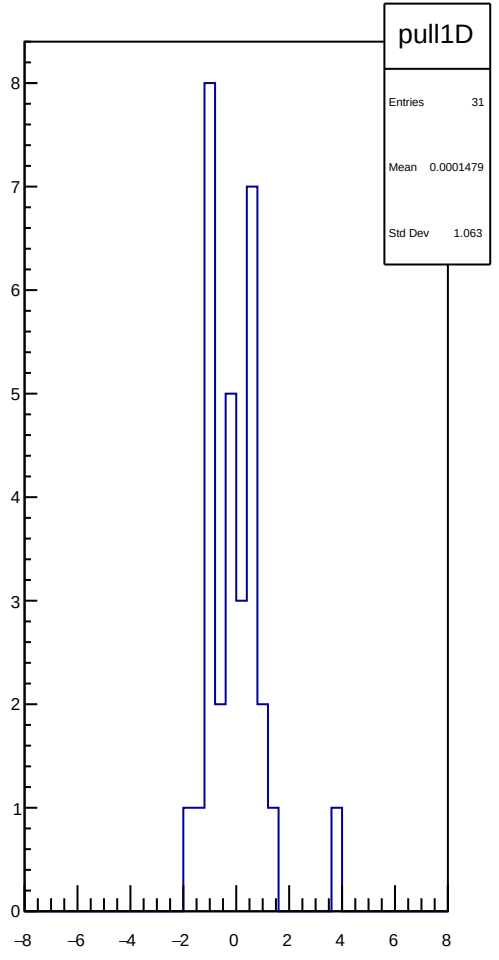

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.5 / 30
p0 6.173 ± 1.975
30
20
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −183.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

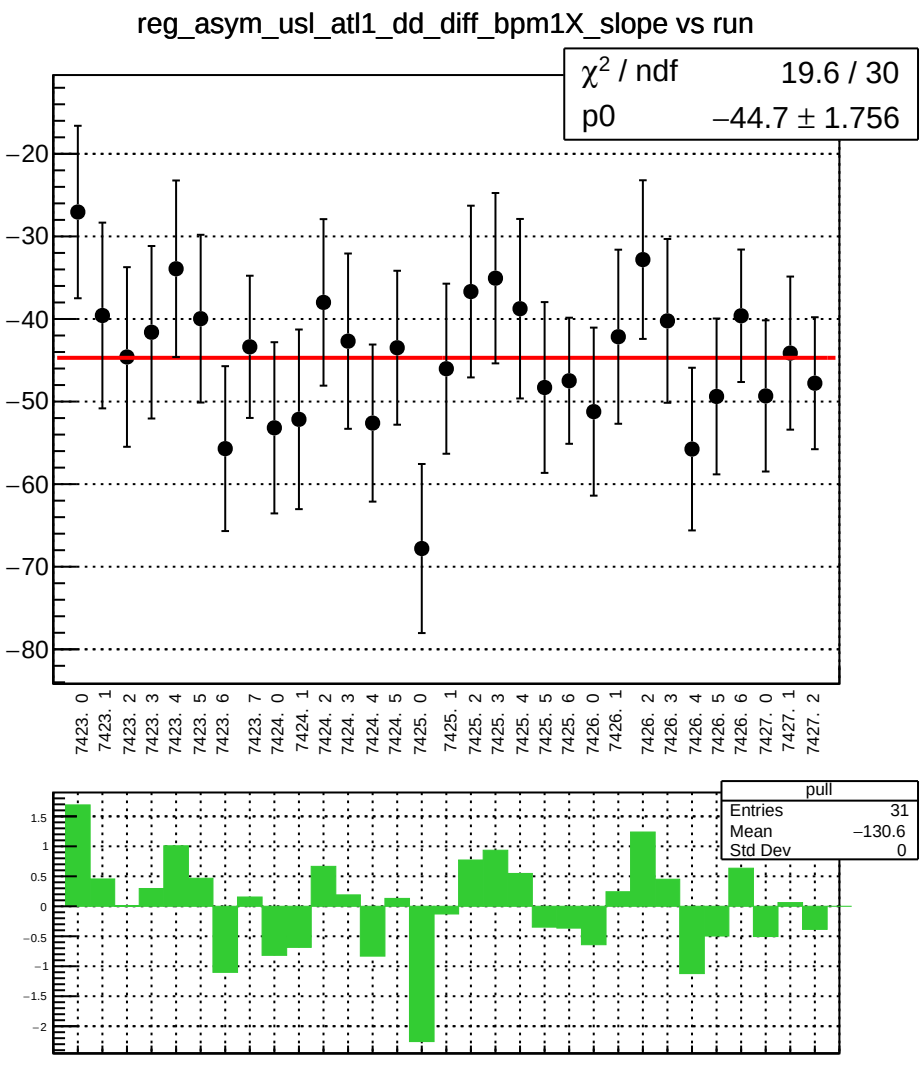

pull1D
Entries 31
Mean −0.006597
Std Dev 0.7725
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

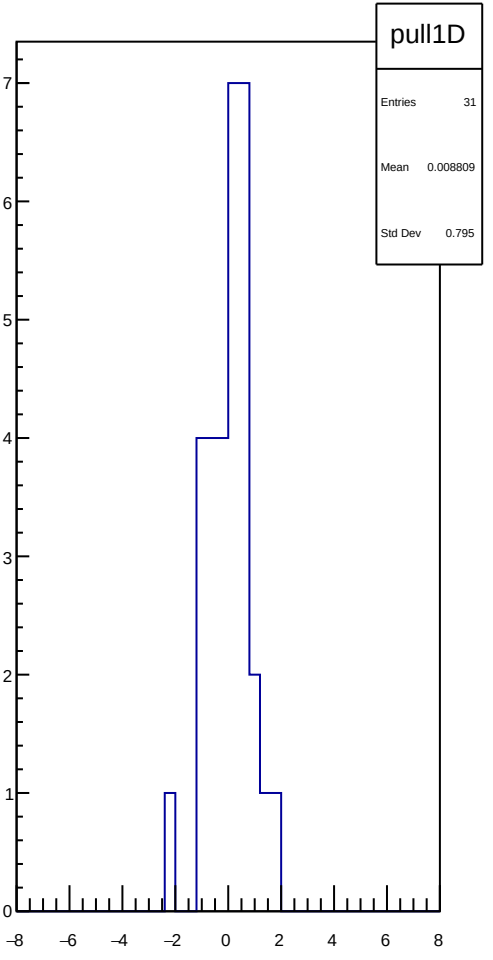

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.85 / 30
p0 6.949 ± 2.132
pull
Entries 31
Mean −294.8
Std Dev 0
pull1D
Entries 31
Mean 0.007417
Std Dev 0.9307

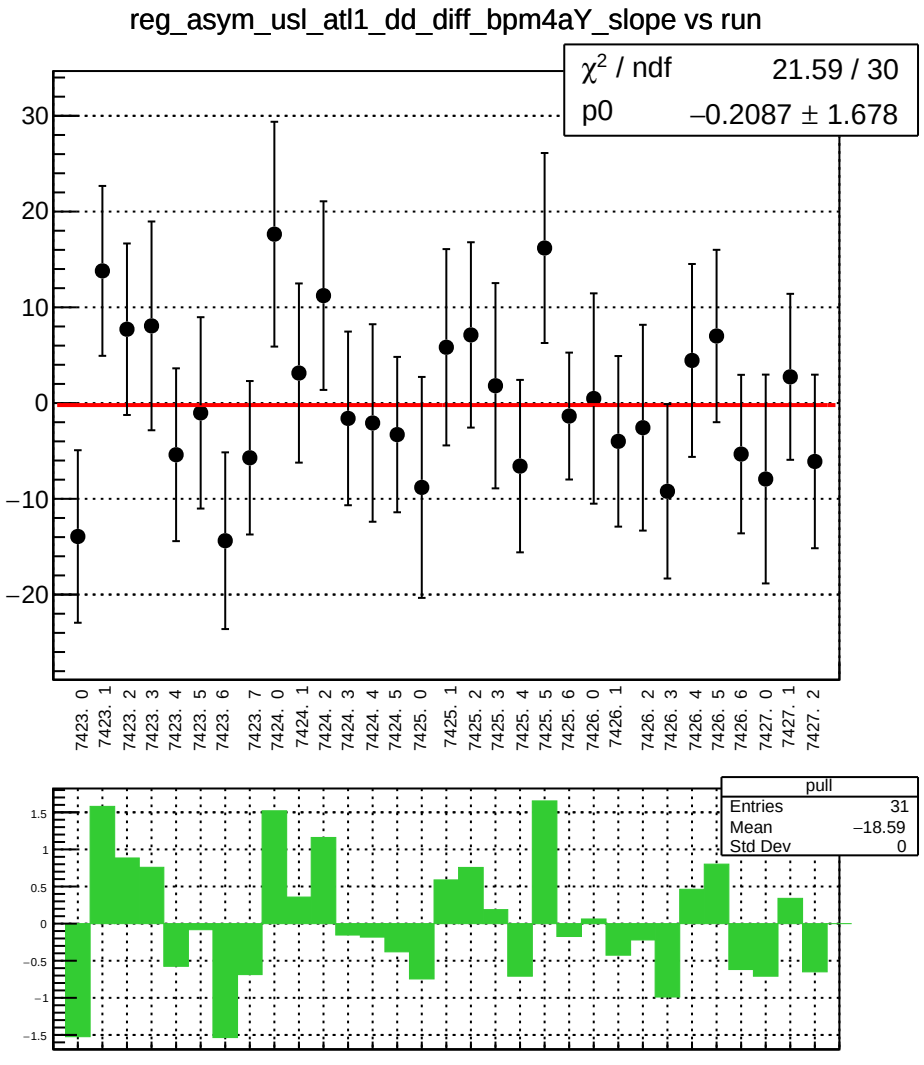

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.78 / 30
p0 −8.746 ± 2.099
pull
Entries 31
Mean 3524
Std Dev 0
pull1D
Entries 31
Mean −0.0003192
Std Dev 0.8382

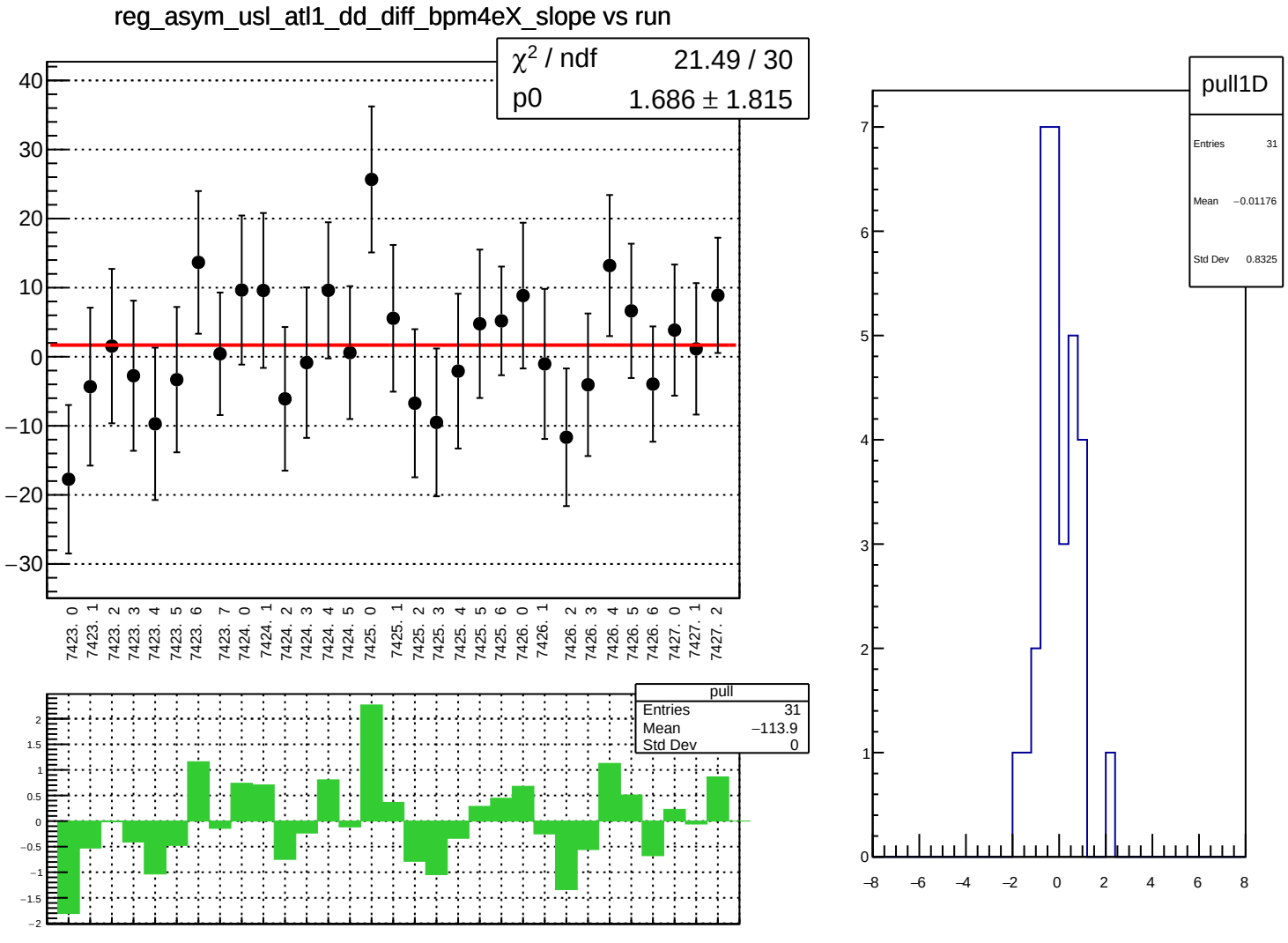

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 35.05 / 30
p0 −14.37 ± 0.09026
pull
Entries 31
Mean 1.271e+04
Std Dev 0

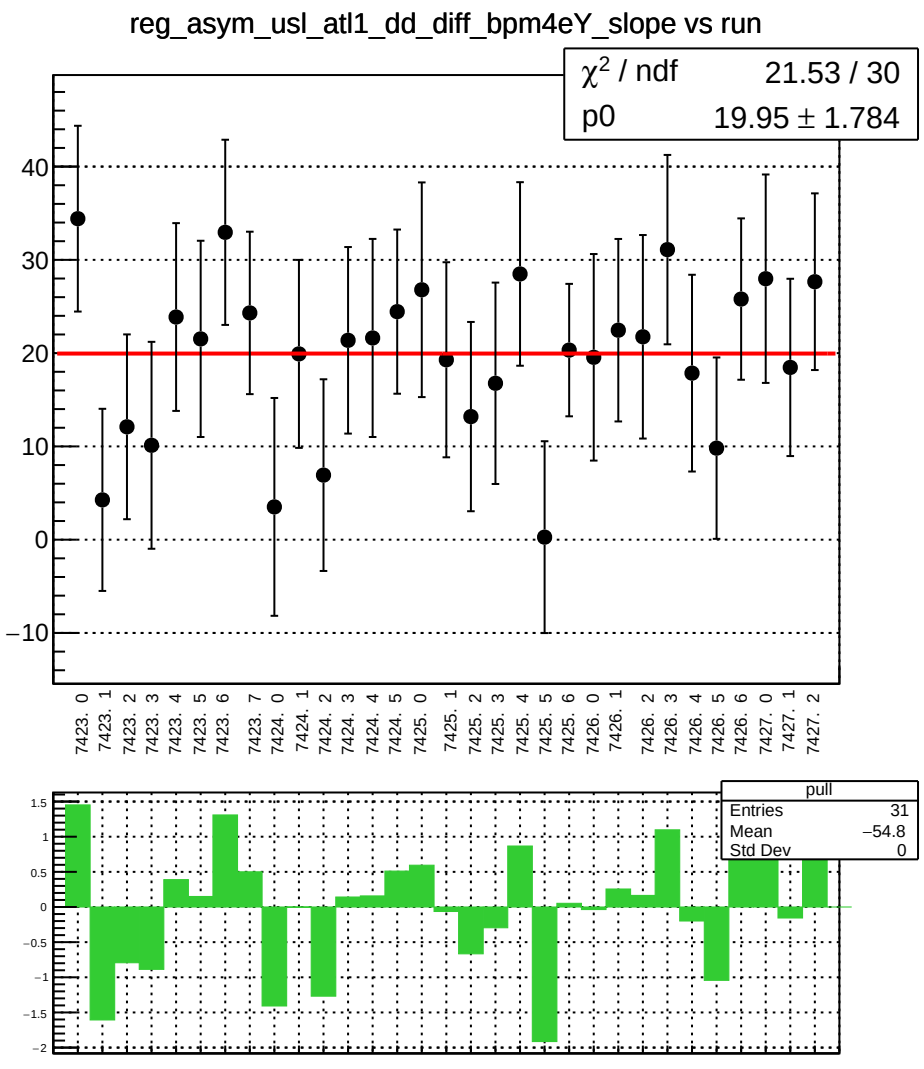

pull1D
Entries 31
Mean 0.0001479
Std Dev 1.063

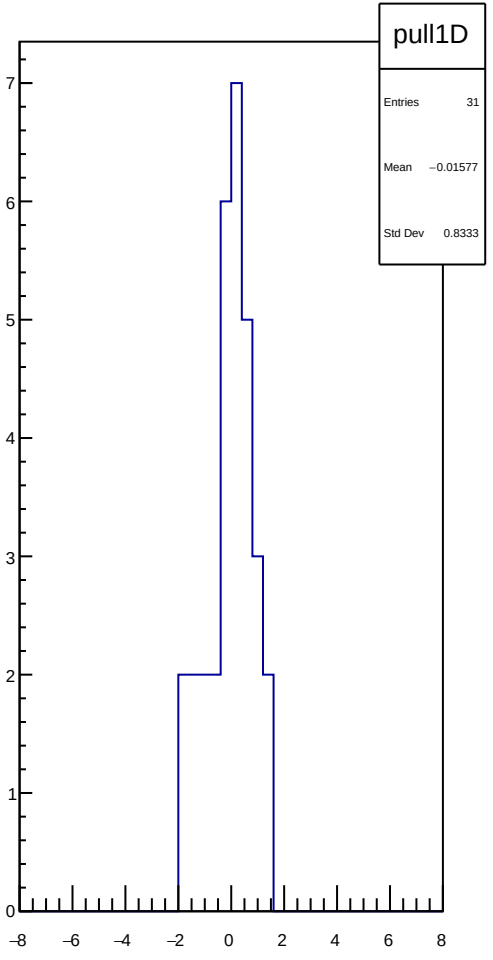

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 19.6 / 30
p0 −44.7 ± 1.756
−20
−30
−40
−50
−60
−70
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −130.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

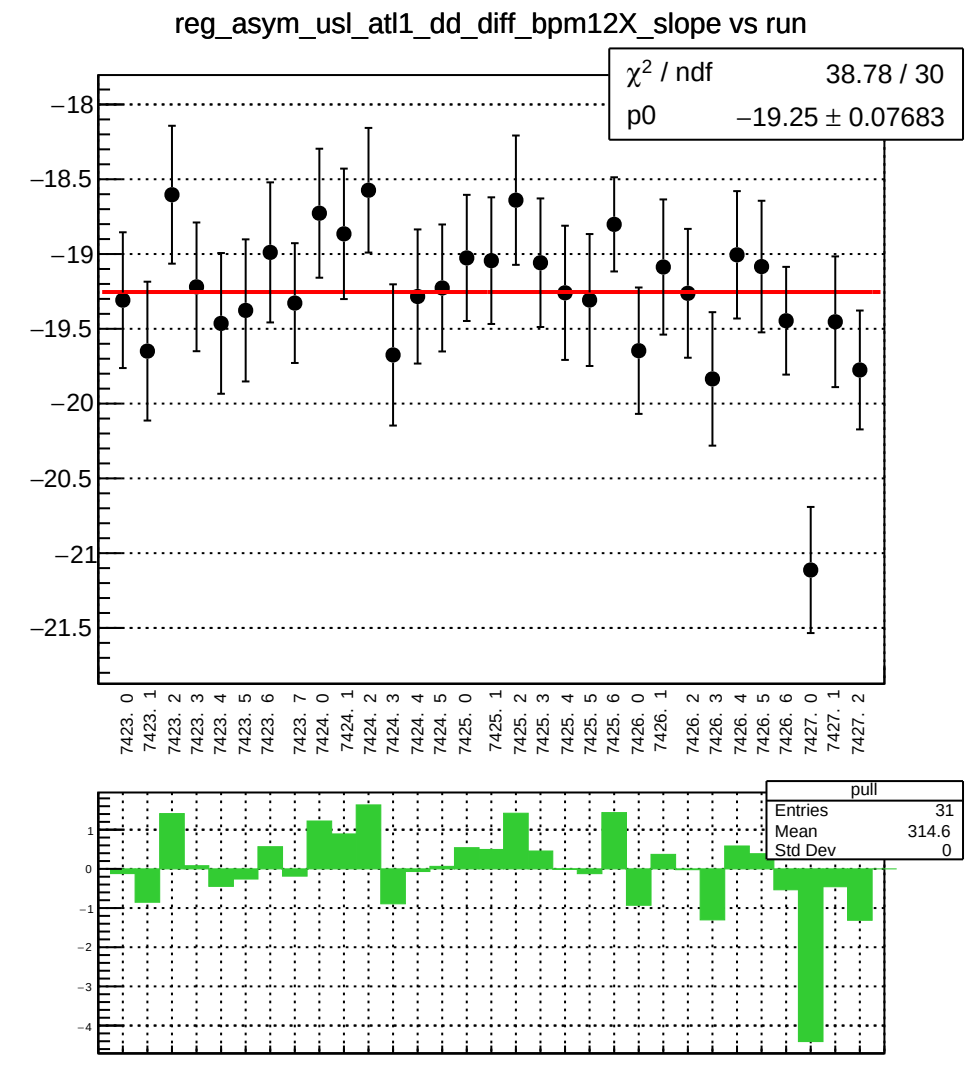

pull1D
Entries 31
Mean 0.008809
Std Dev 0.795
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

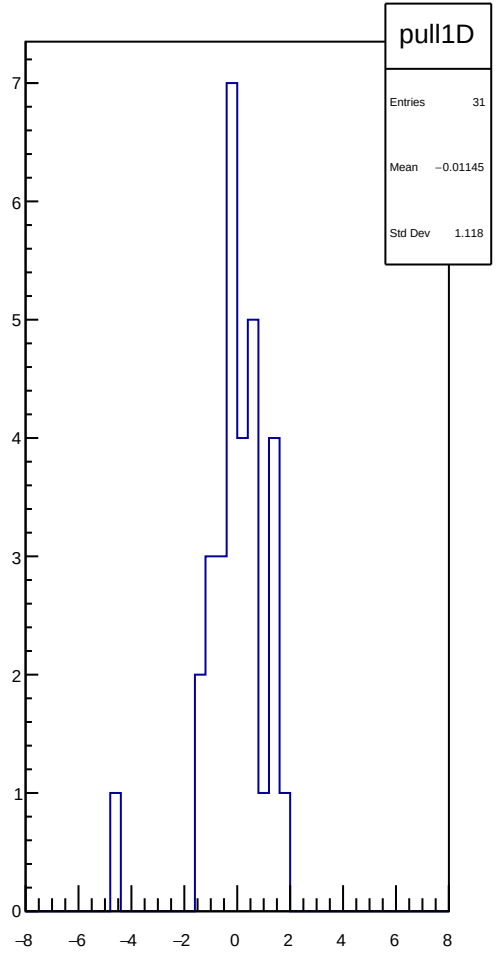

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.59 / 30
p0 −0.2087 ± 1.678
30
20
10
0
−10
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −18.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.02461
Std Dev 0.8342
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

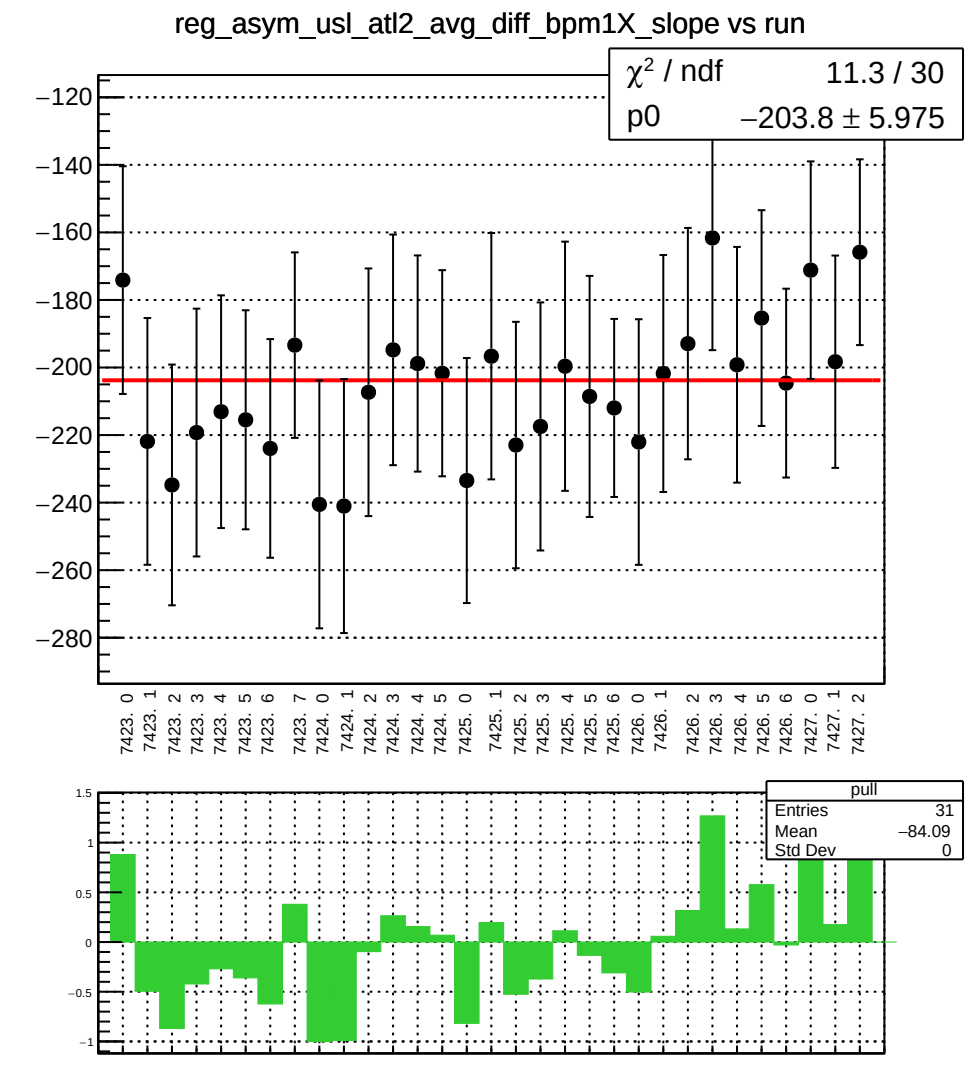

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.49 / 30
p0 1.686 ± 1.815
pull
Entries 31
Mean −113.9
Std Dev 0
pull1D
Entries 31
Mean −0.01176
Std Dev 0.8325

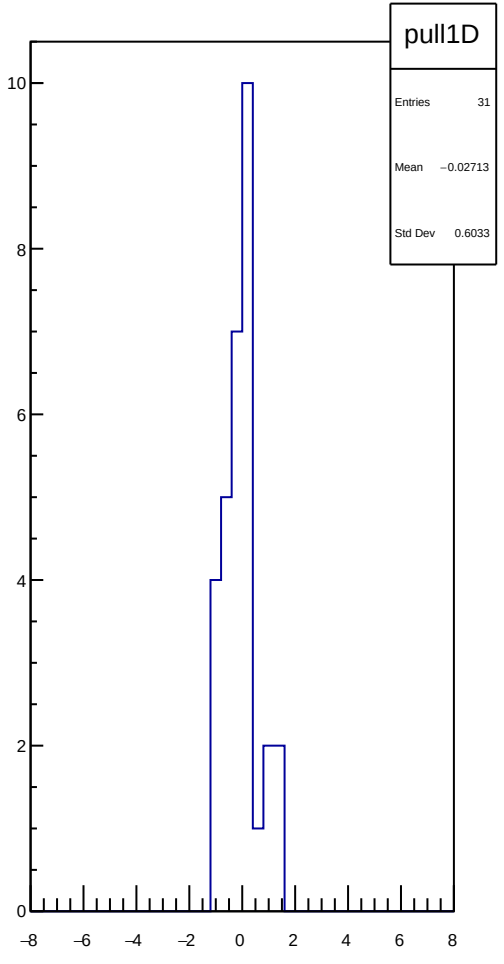

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.53 / 30
p0 19.95 ± 1.784
40
30
20
10
0
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −54.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

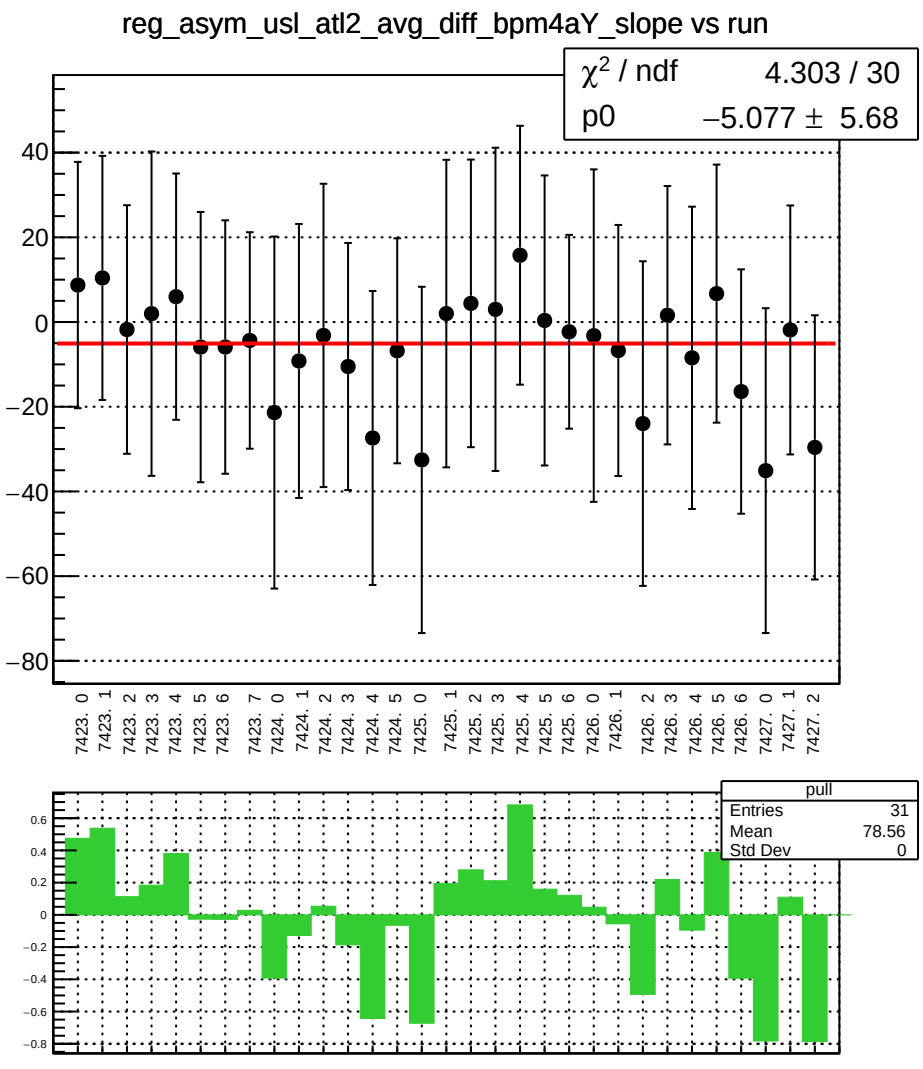

pull1D
Entries 31
Mean −0.01577
Std Dev 0.8333
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

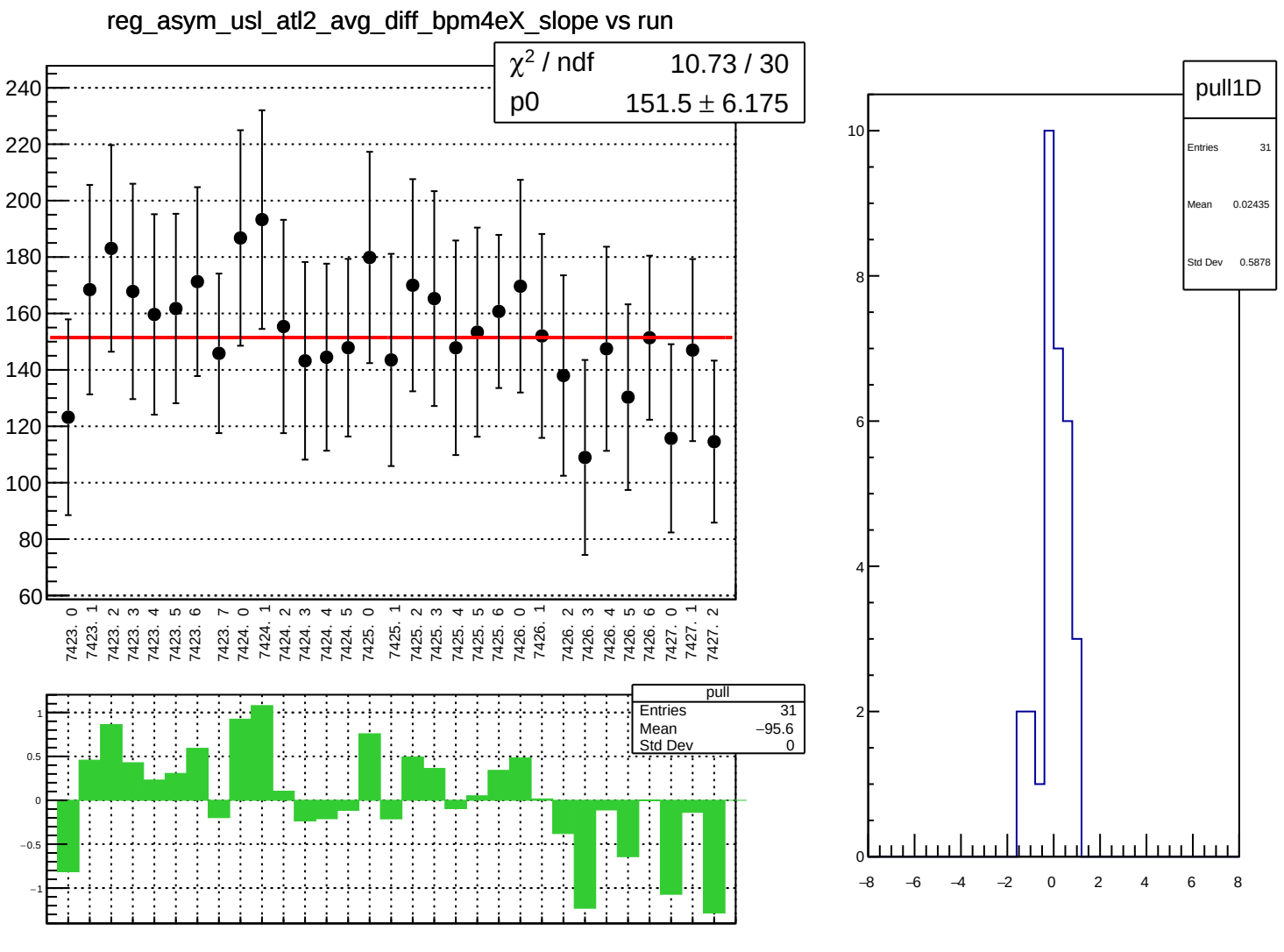

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 38.78 / 30
p0 −19.25 ± 0.07683
−18
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 314.6
Std Dev 0

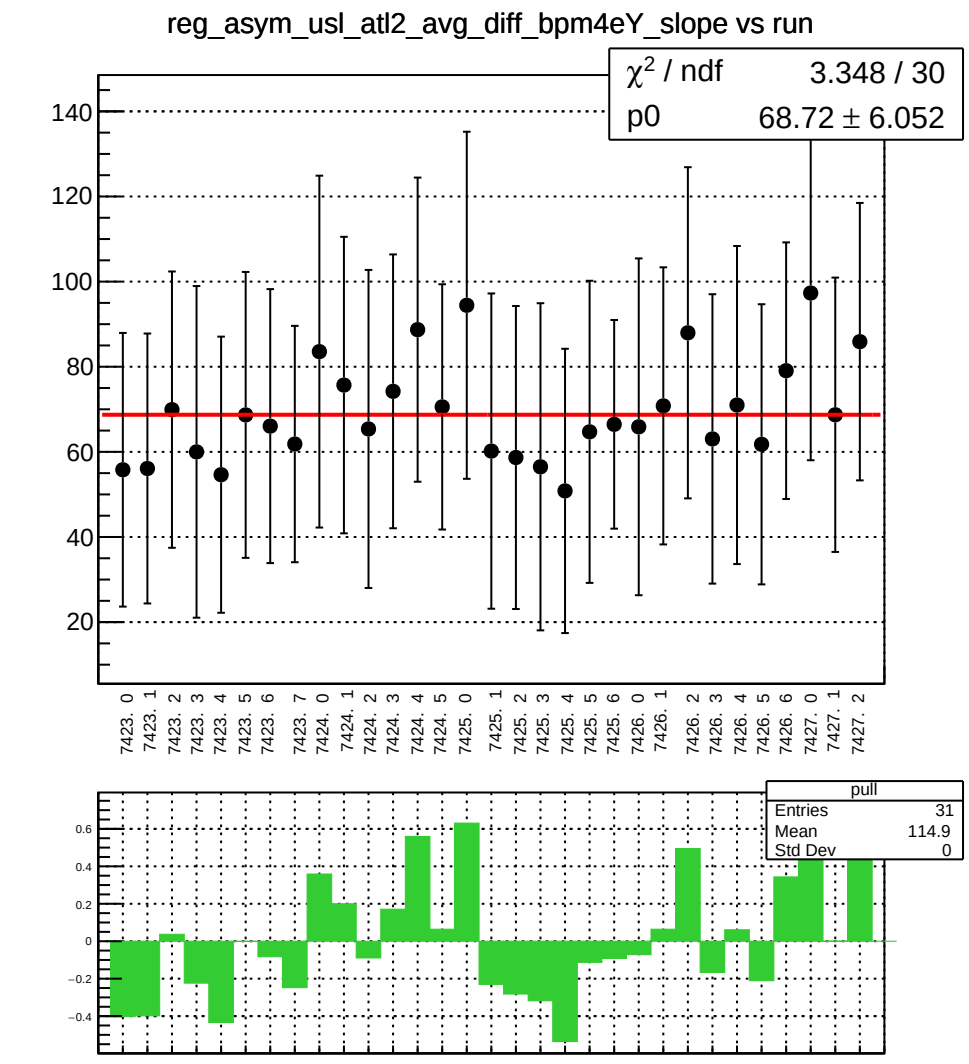

pull1D
Entries 31
Mean −0.01145
Std Dev 1.118
−8
−6
−4
−2
0
2
4
6
8

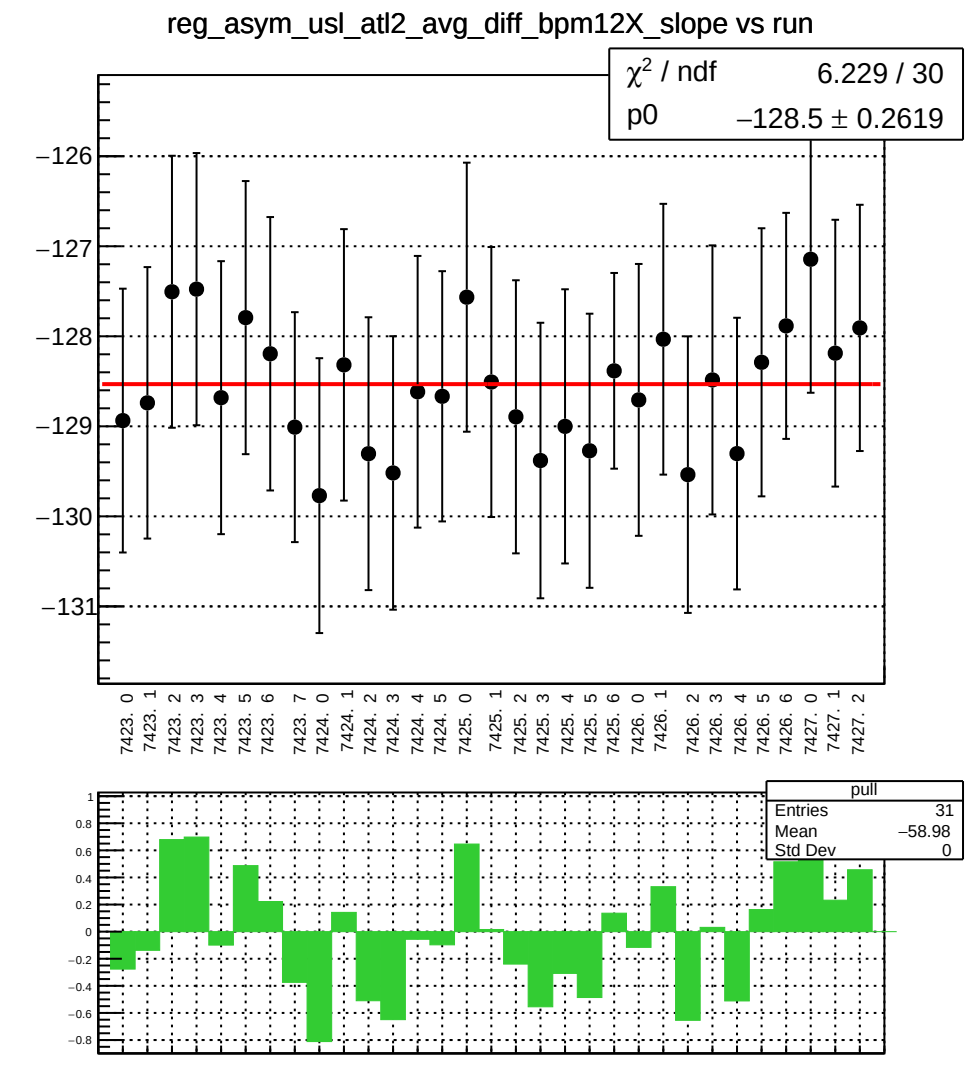

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.3 / 30
p0 −203.8 ± 5.975
pull
Entries 31
Mean −84.09
Std Dev 0

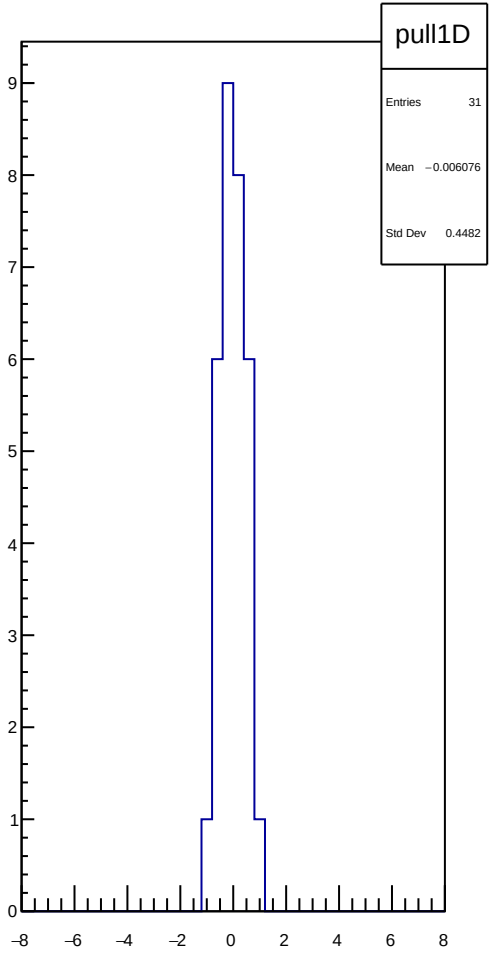

pull1D
Entries 31
Mean −0.02713
Std Dev 0.6033

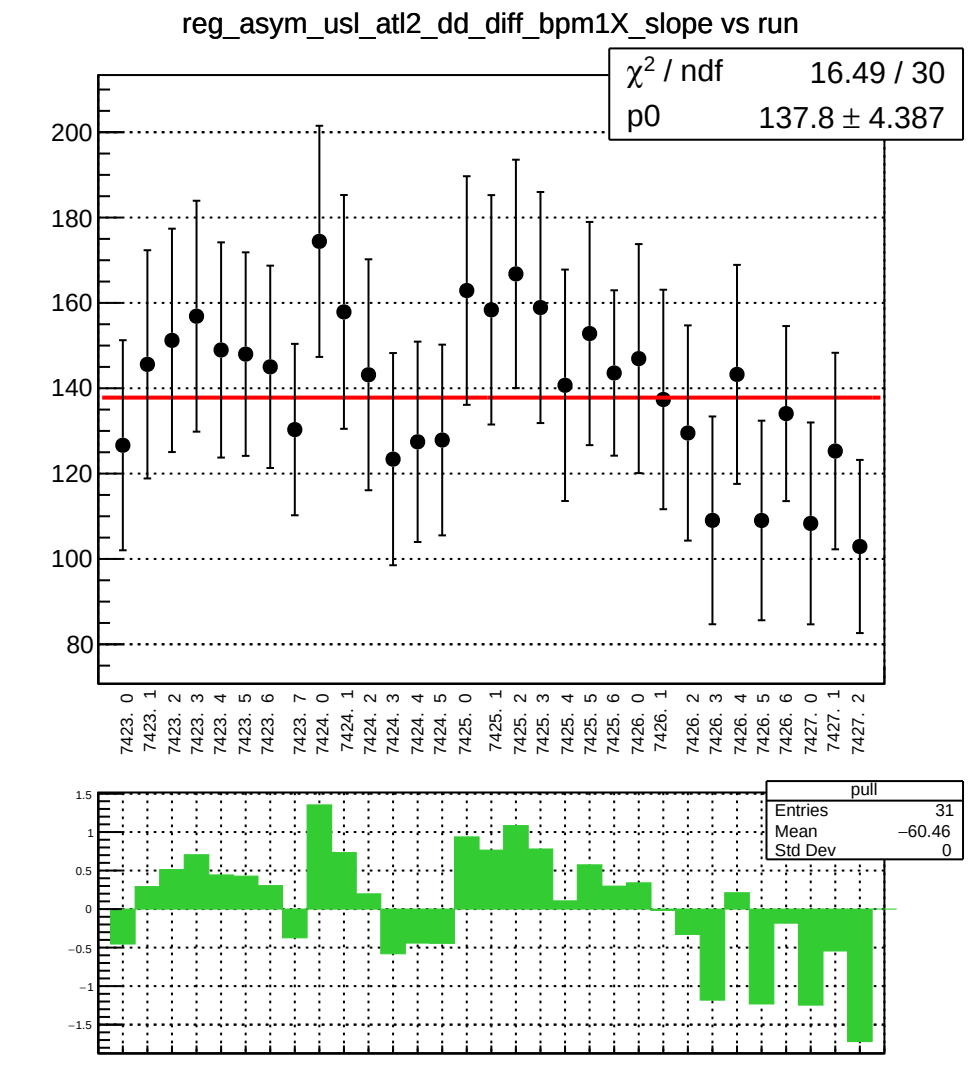

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.303 / 30
p0 −5.077 ± 5.68
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 78.56
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean −0.01813
Std Dev 0.3721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

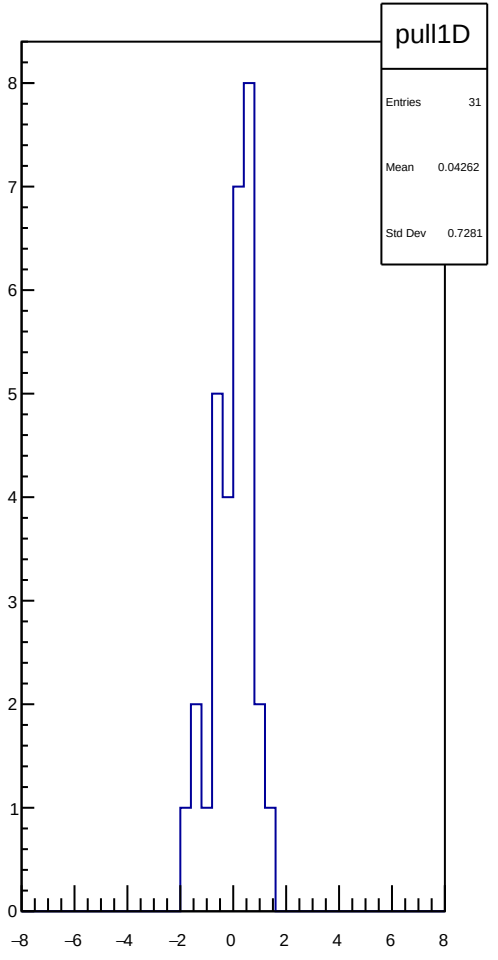

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.73 / 30
p0 151.5 ± 6.175
240
220
200
180
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −95.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.02435
Std Dev 0.5878
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

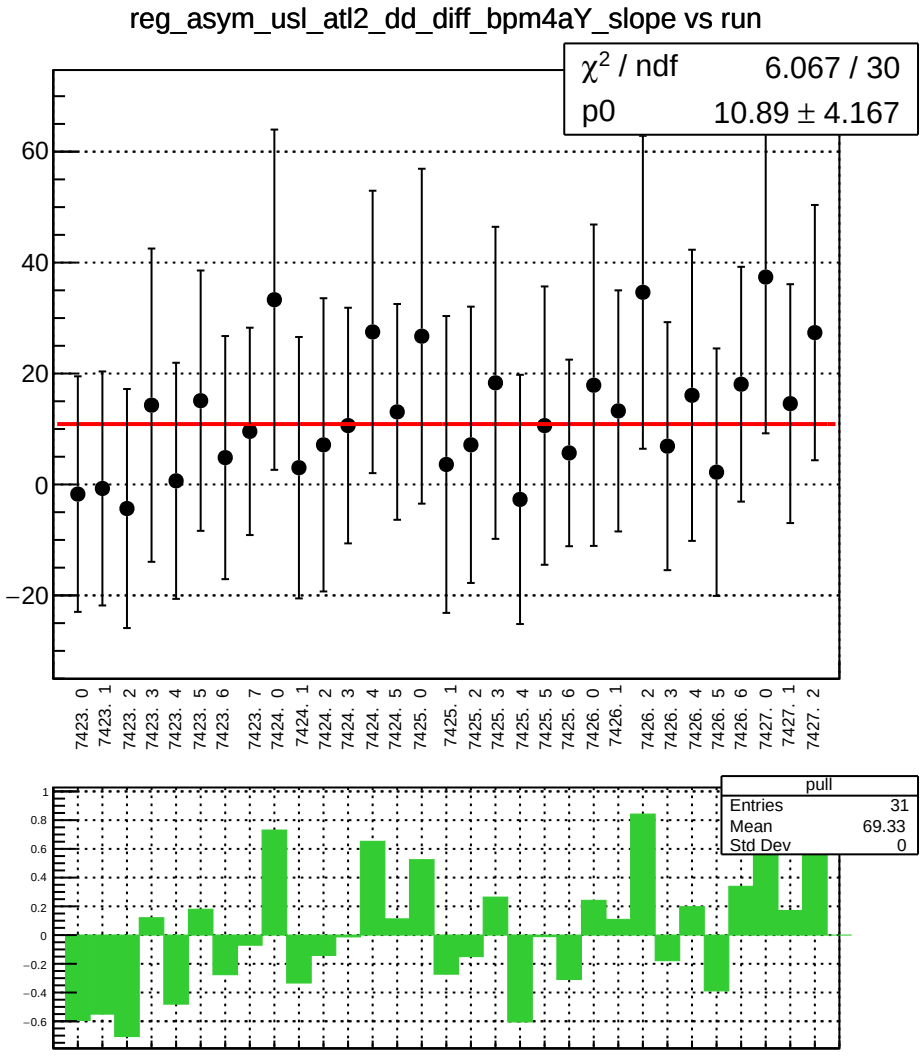

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.348 / 30
p0 68.72 ± 6.052
140
120
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 114.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 31
Mean 0.01095
Std Dev 0.3284
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

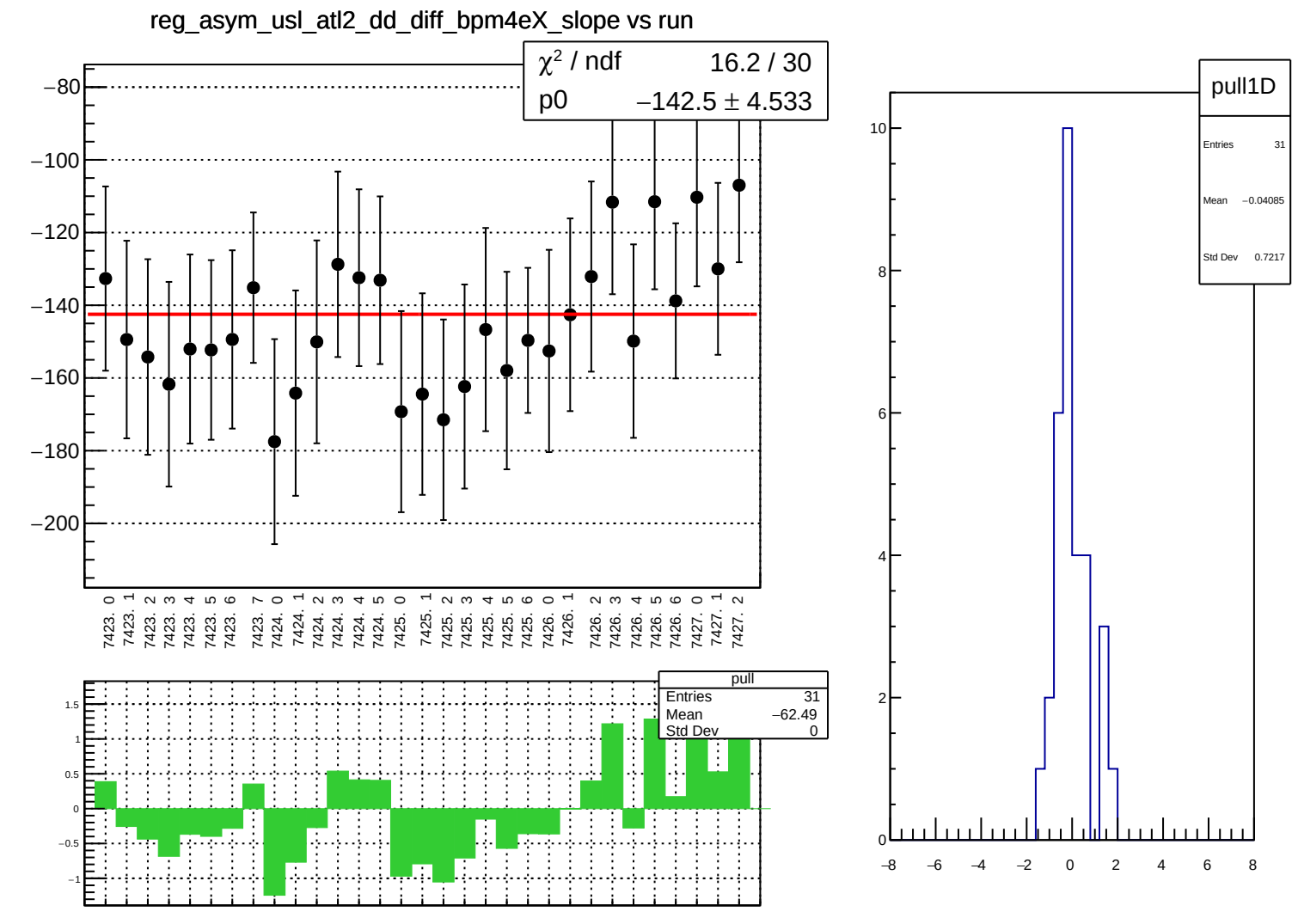

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 6.229 / 30
p0 −128.5 ± 0.2619
−126
−127
−128
−129
−130
−131
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −58.98
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

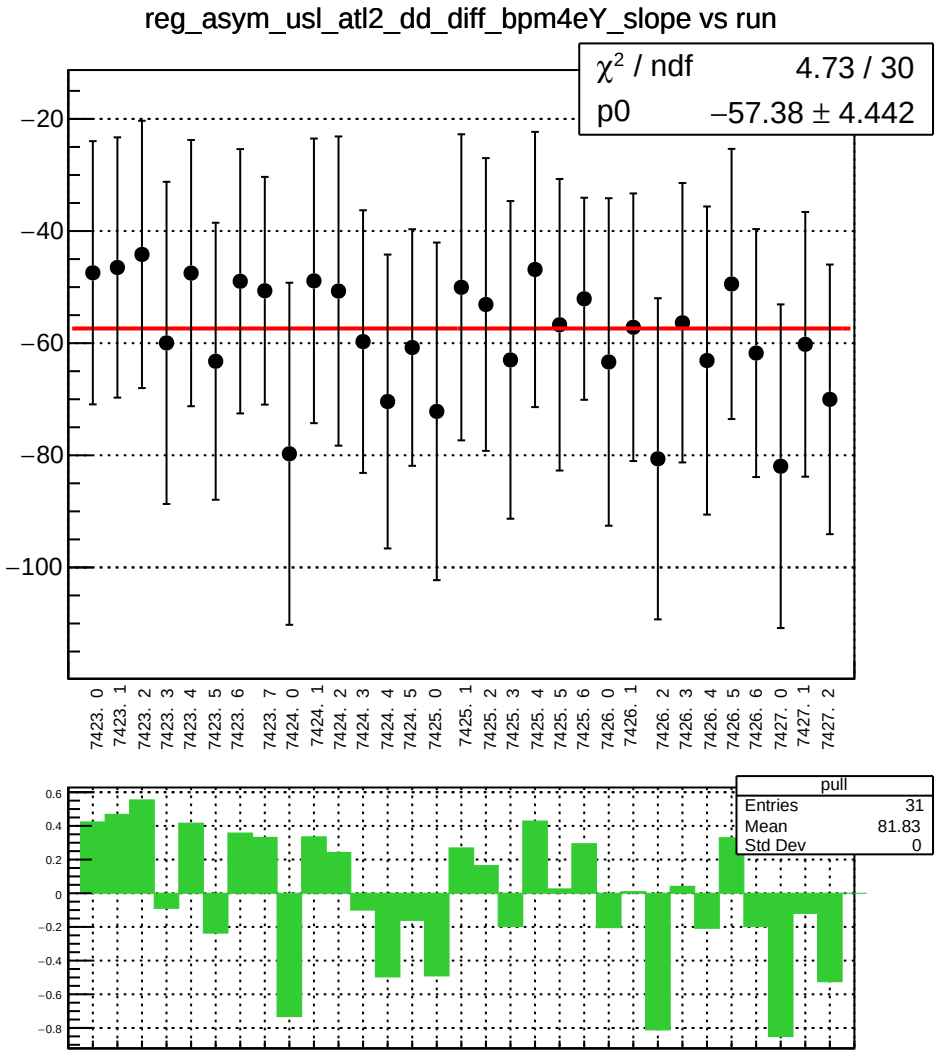

pull1D
Entries 31
Mean −0.006076
Std Dev 0.4482
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

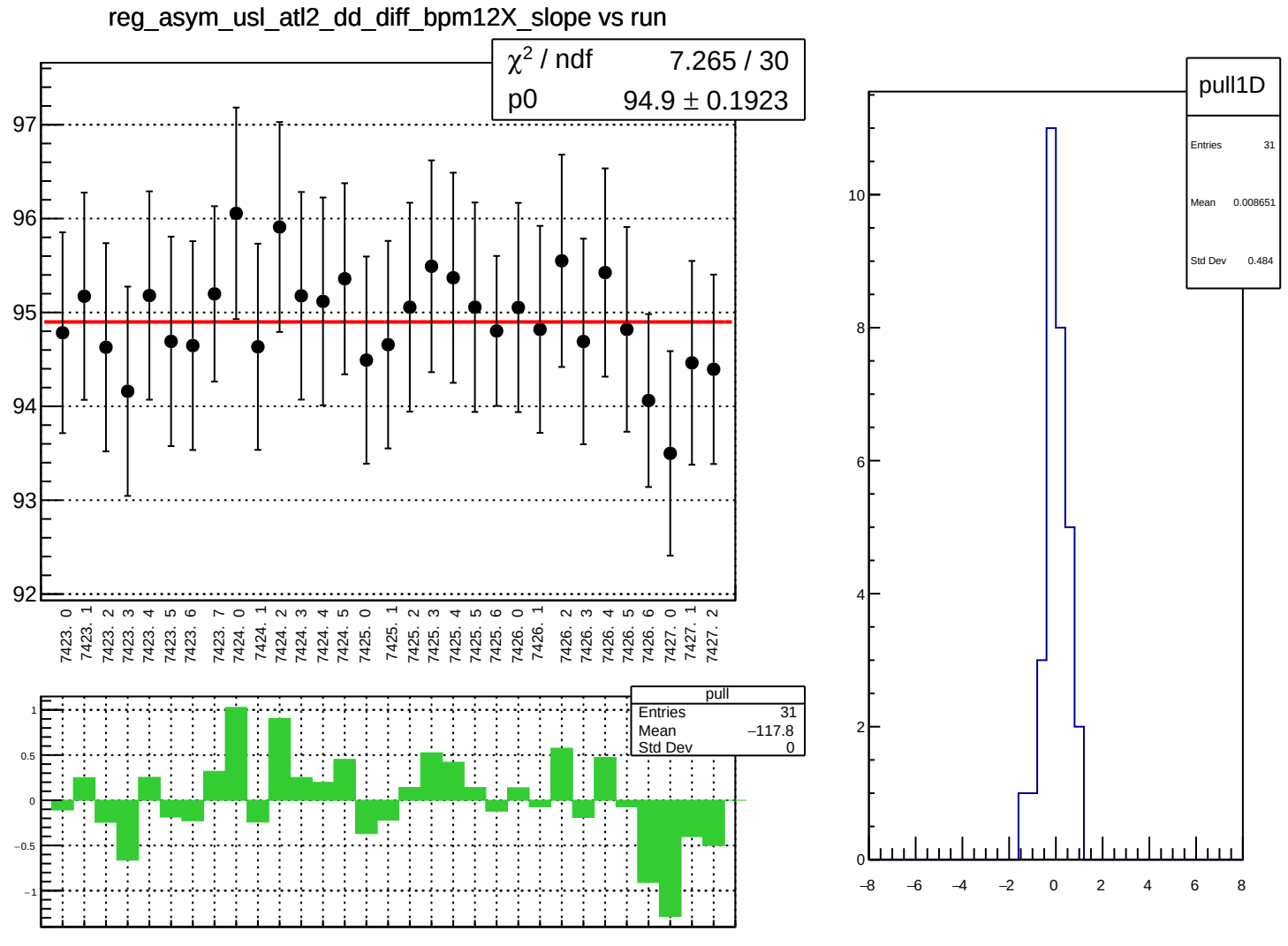

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.49 / 30
p0 137.8 ± 4.387
200
180
160
140
120
100
80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −60.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

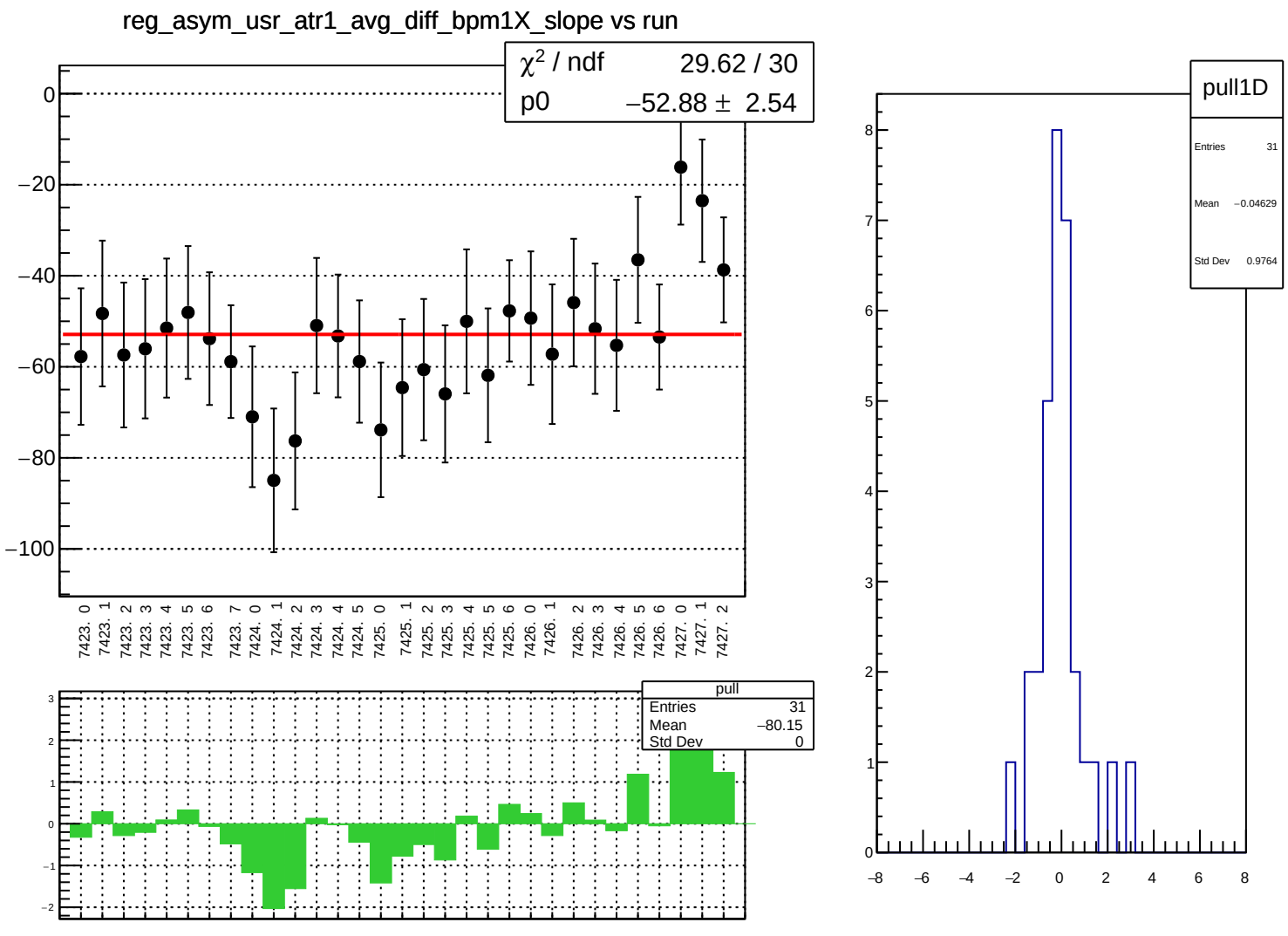

pull1D
Entries 31
Mean 0.04262
Std Dev 0.7281
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

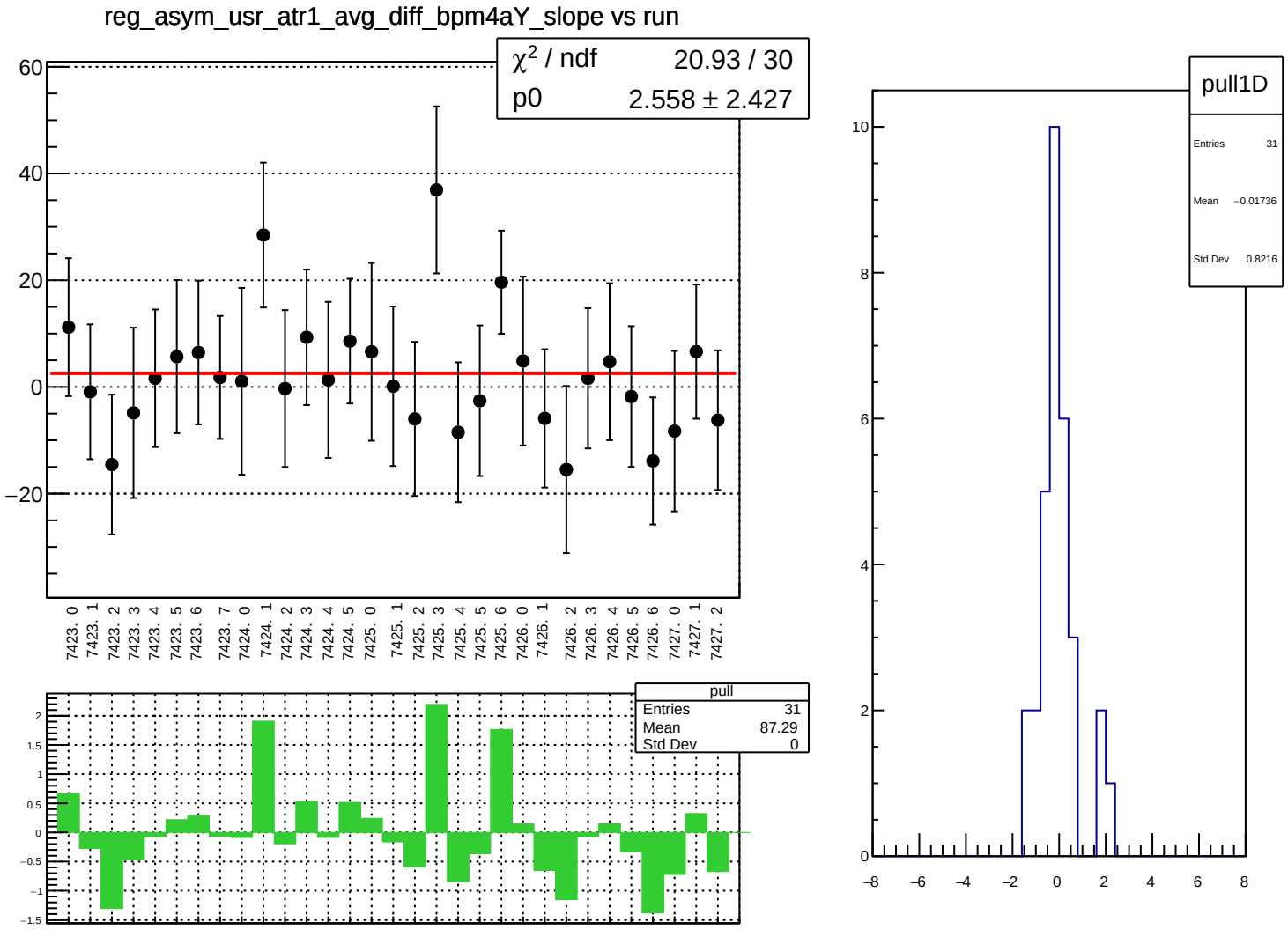

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.067 / 30
p0 10.89 ± 4.167
60
40
20
0
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 69.33
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean 0.03434
Std Dev 0.4411
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

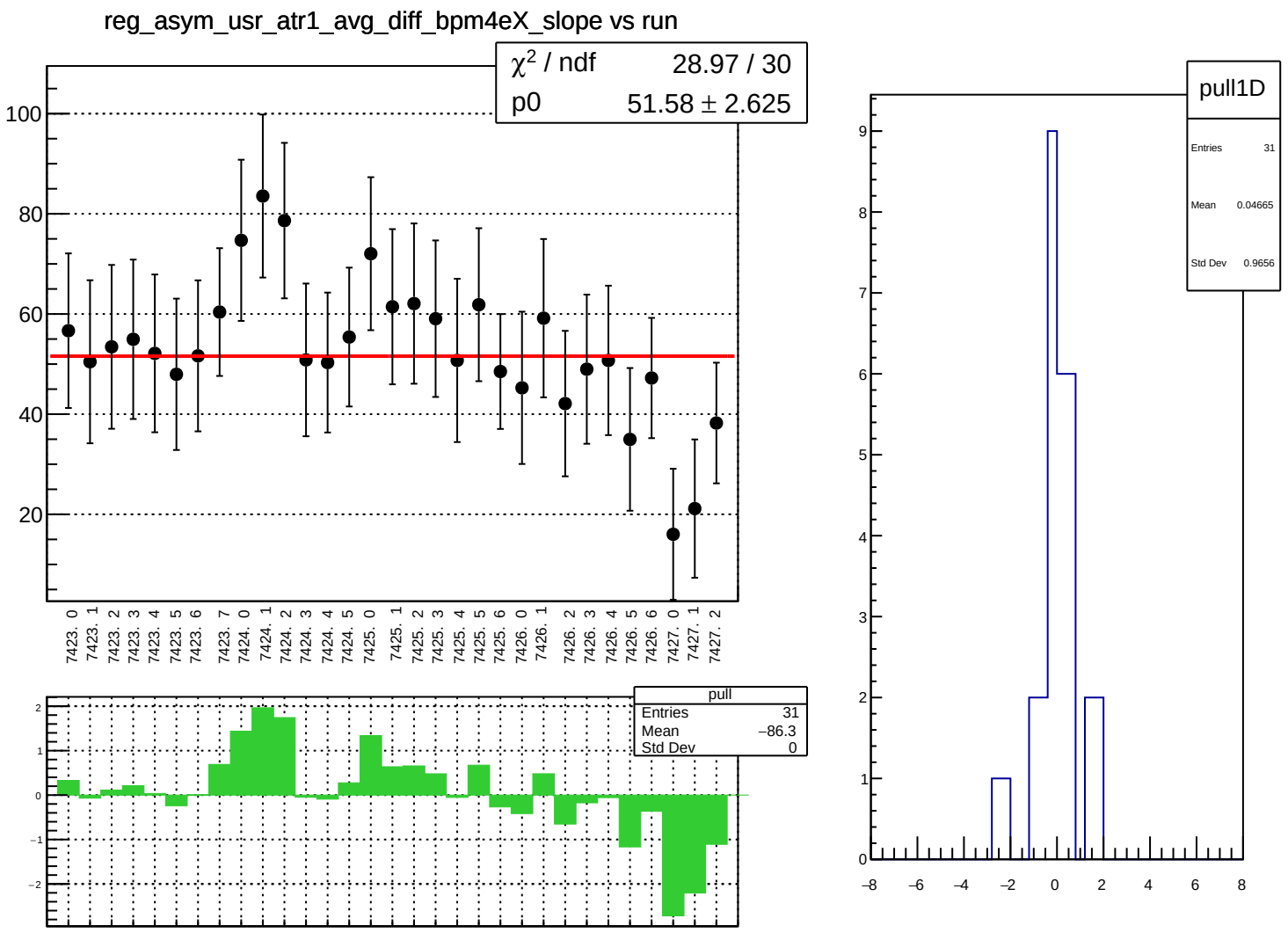

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.2 / 30
p0 −142.5 ± 4.533
−80
−100
−120
−140
−160
−180
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −62.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.04085
Std Dev 0.7217
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

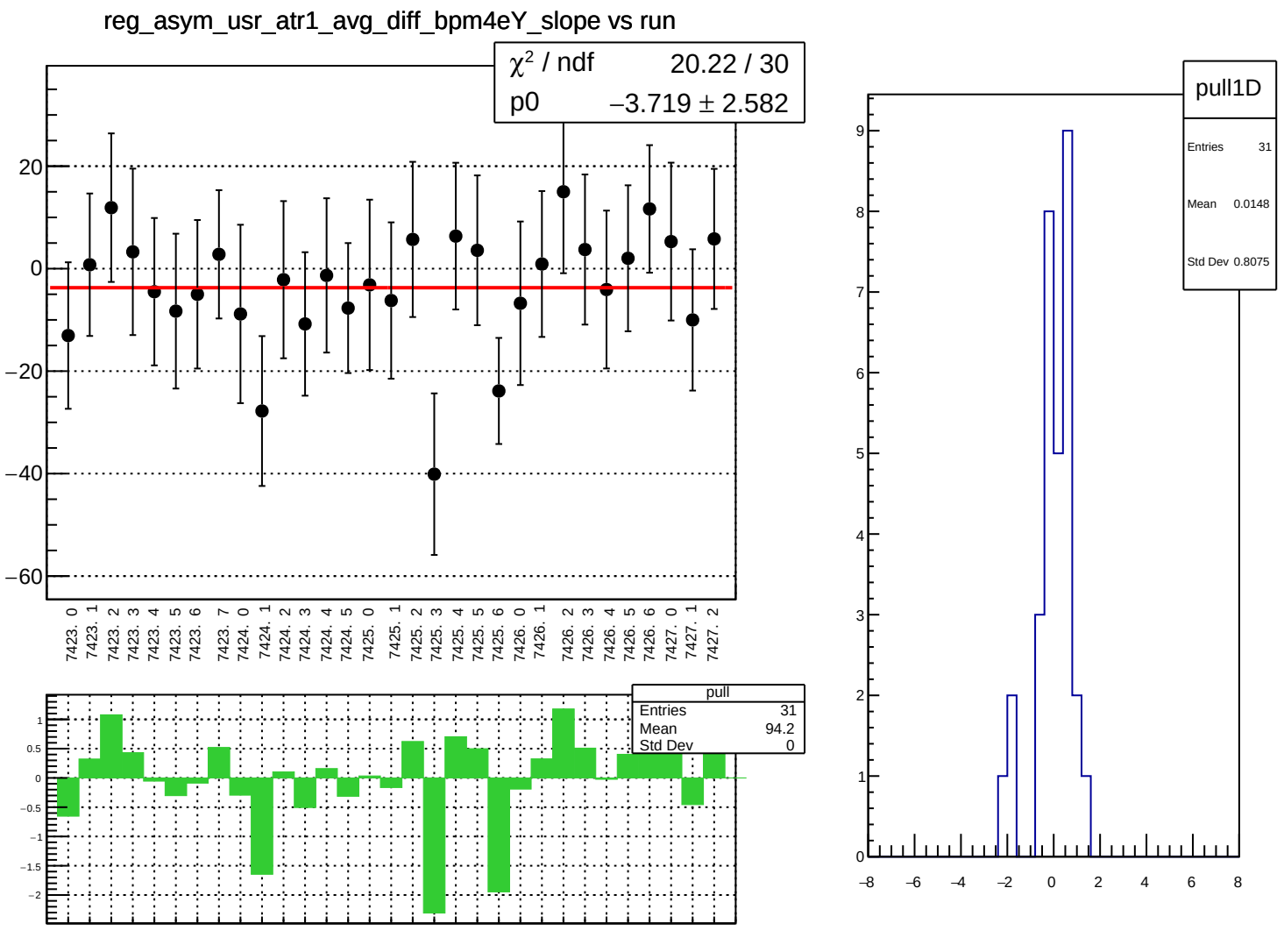

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.73 / 30
p0 −57.38 ± 4.442
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 81.83
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean −0.02365
Std Dev 0.3899
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

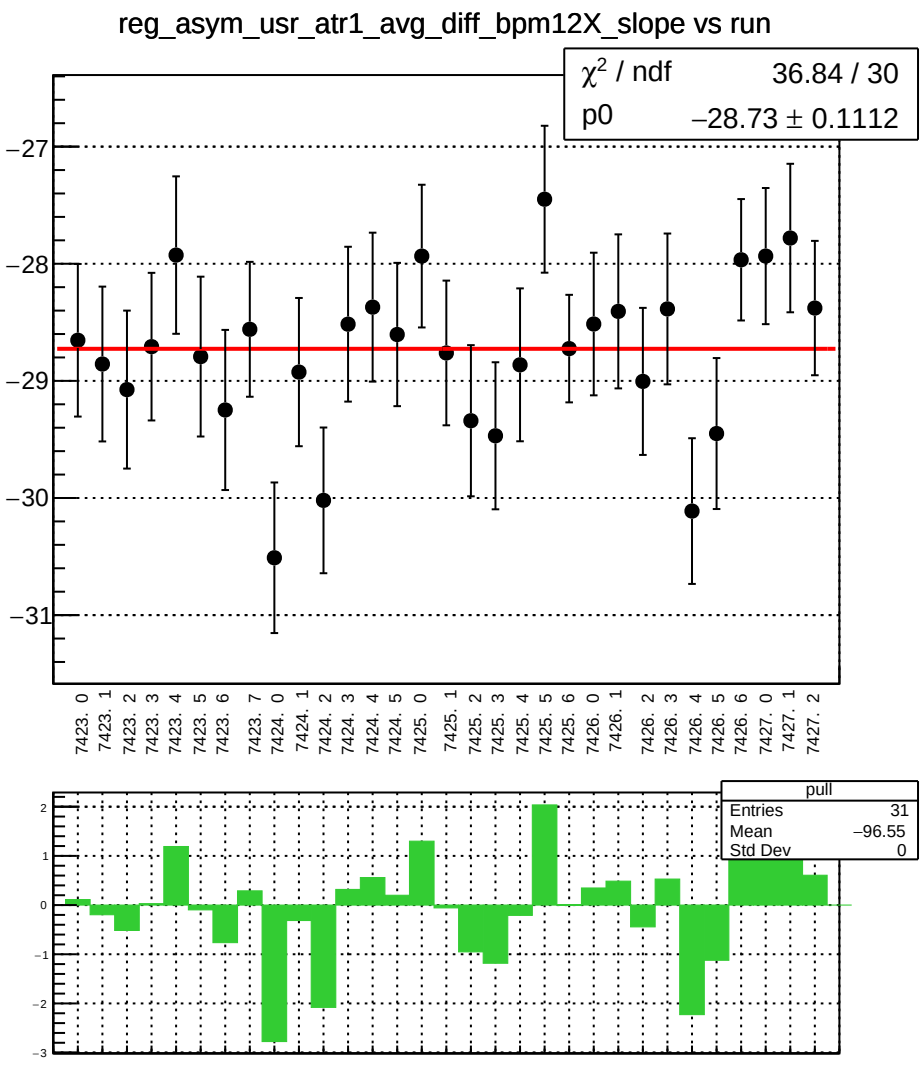

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.265 / 30
p0 94.9 ± 0.1923
97
96
95
94
93
92
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −117.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.008651
Std Dev 0.484
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

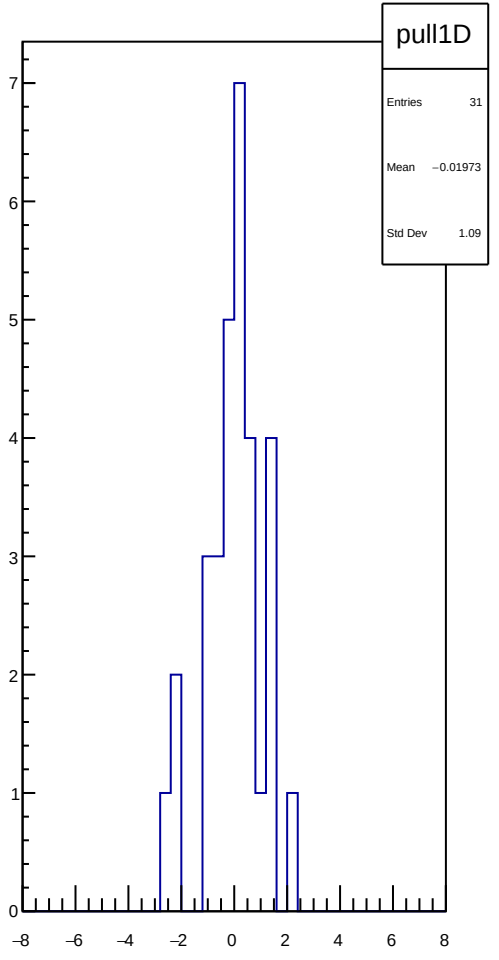

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 29.62 / 30
p0 −52.88 ± 2.54
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −80.15
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.04629
Std Dev 0.9764
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

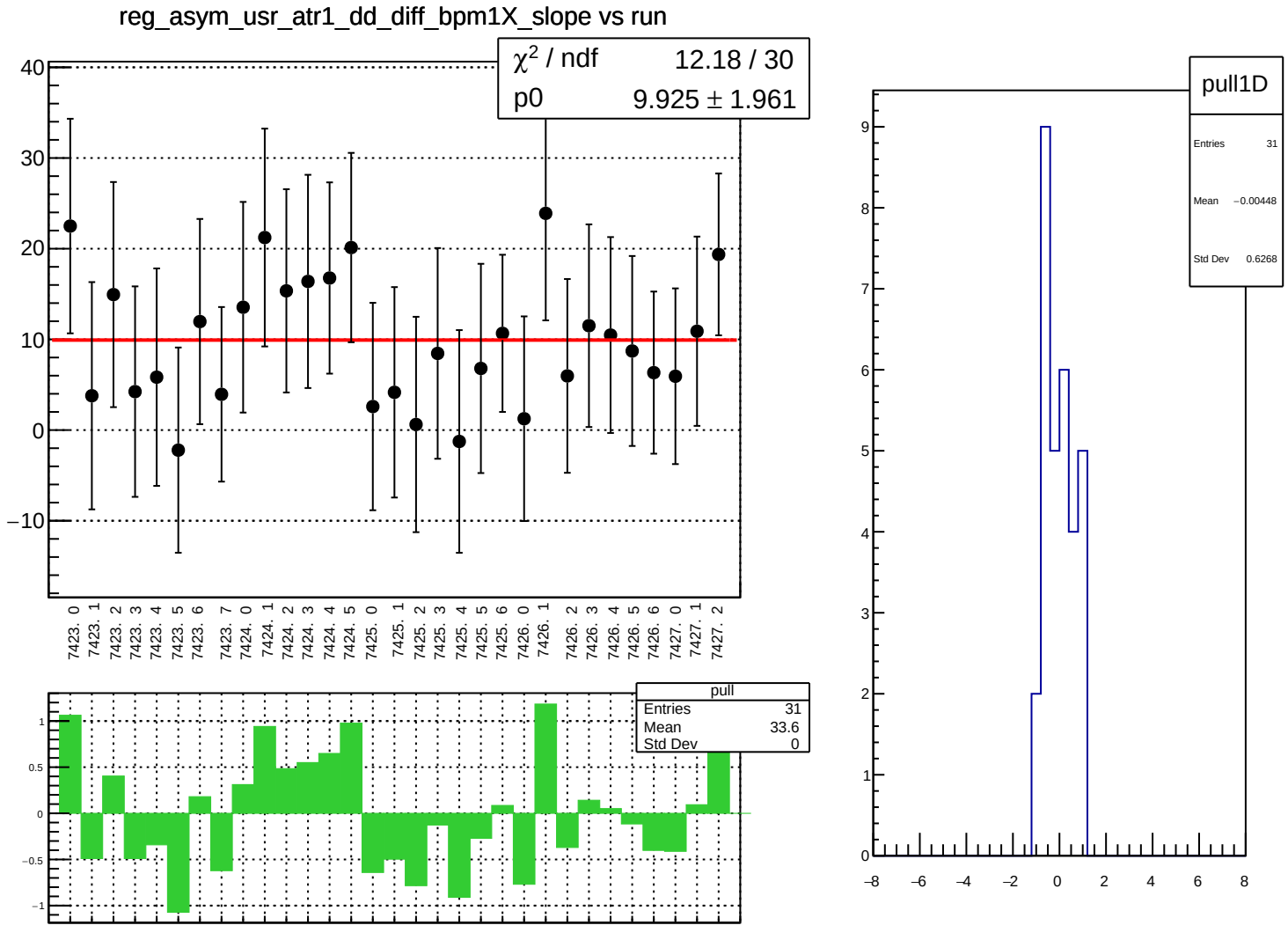

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.93 / 30
p0 2.558 ± 2.427
pull
Entries 31
Mean 87.29
Std Dev 0
pull1D
Entries 31
Mean −0.01736
Std Dev 0.8216

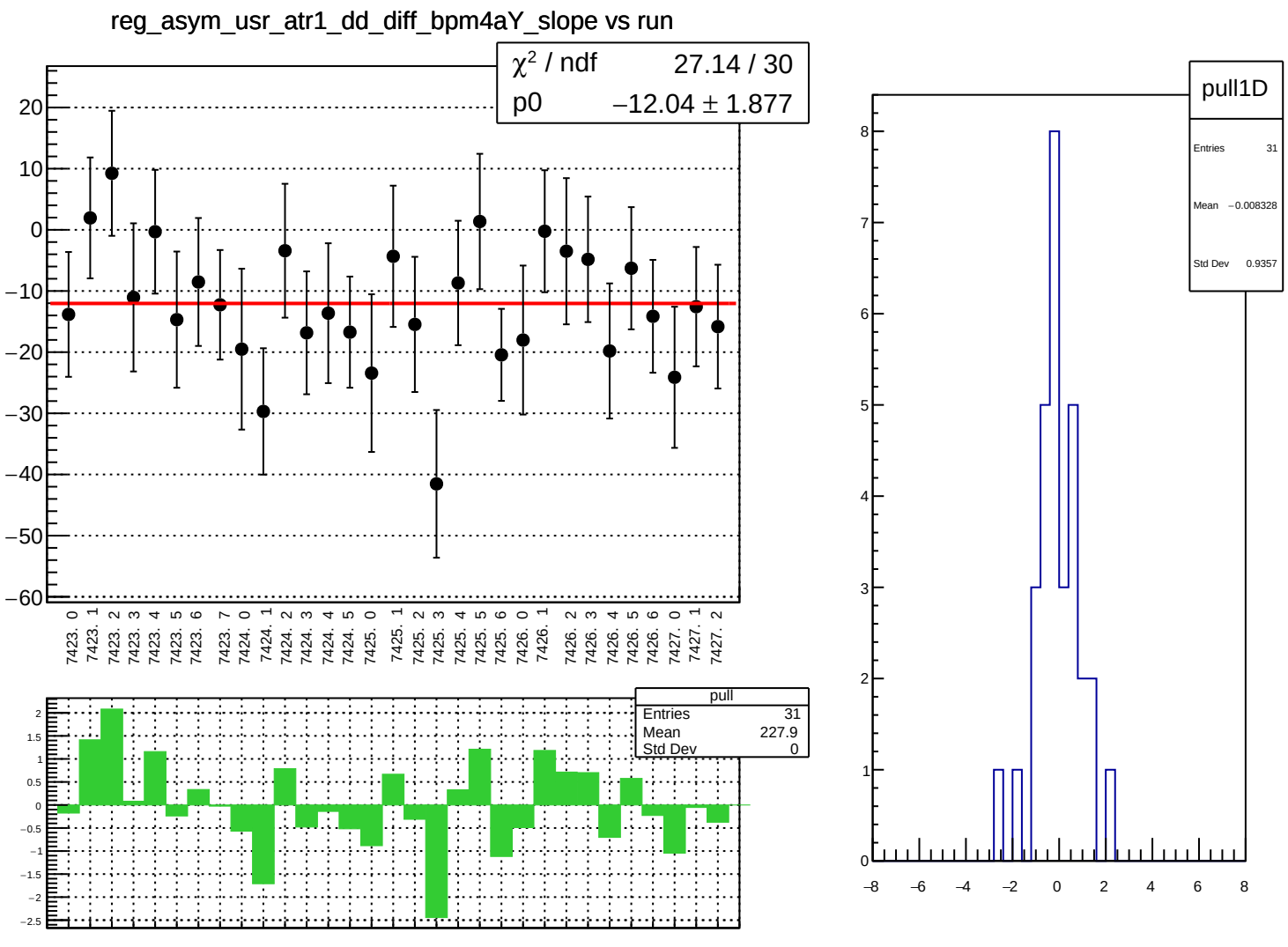

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.97 / 30
p0 51.58 ± 2.625
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −86.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.04665
Std Dev 0.9656
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

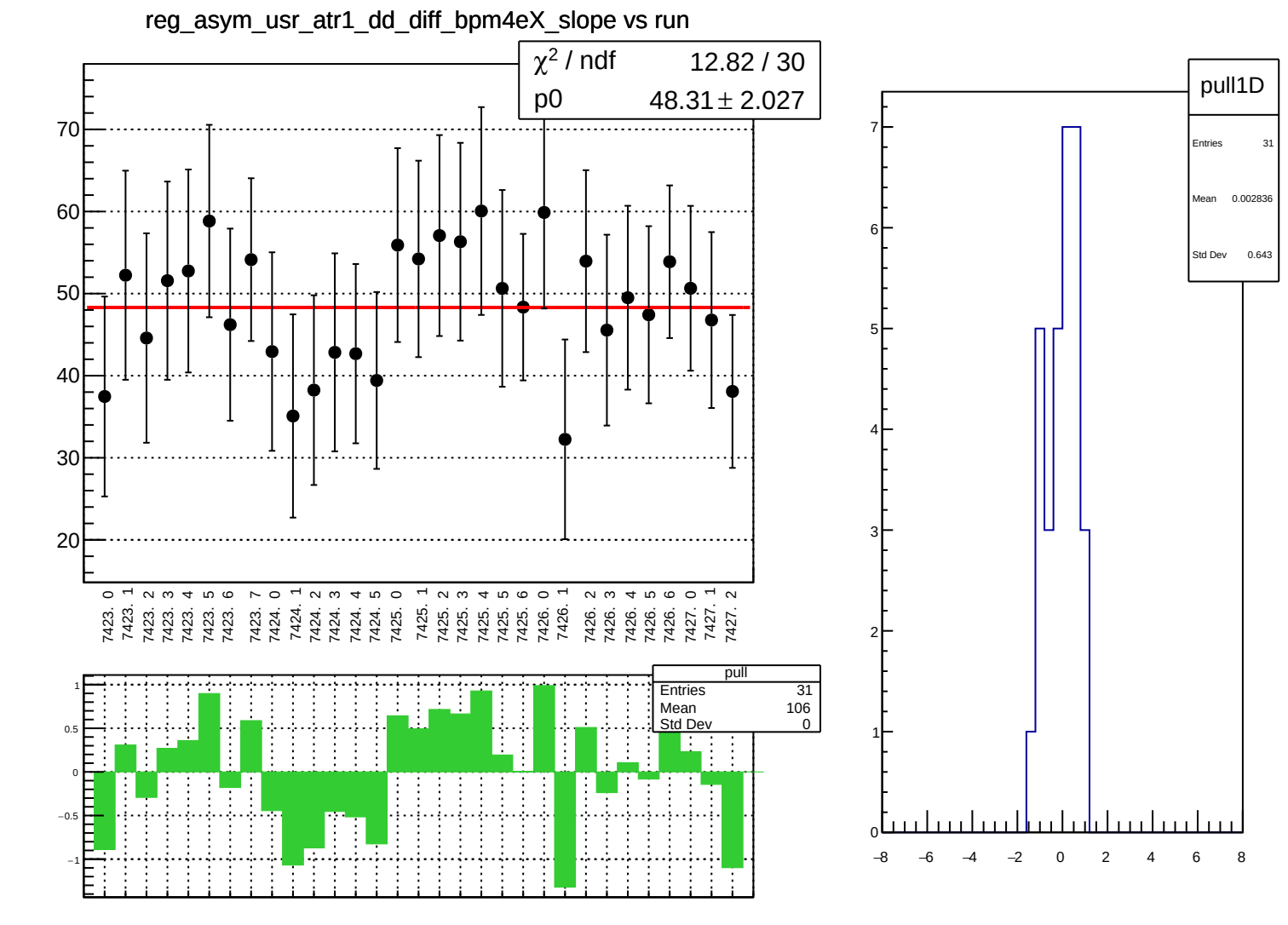

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.22 / 30
p0 −3.719 ± 2.582
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 94.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.0148
Std Dev 0.8075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

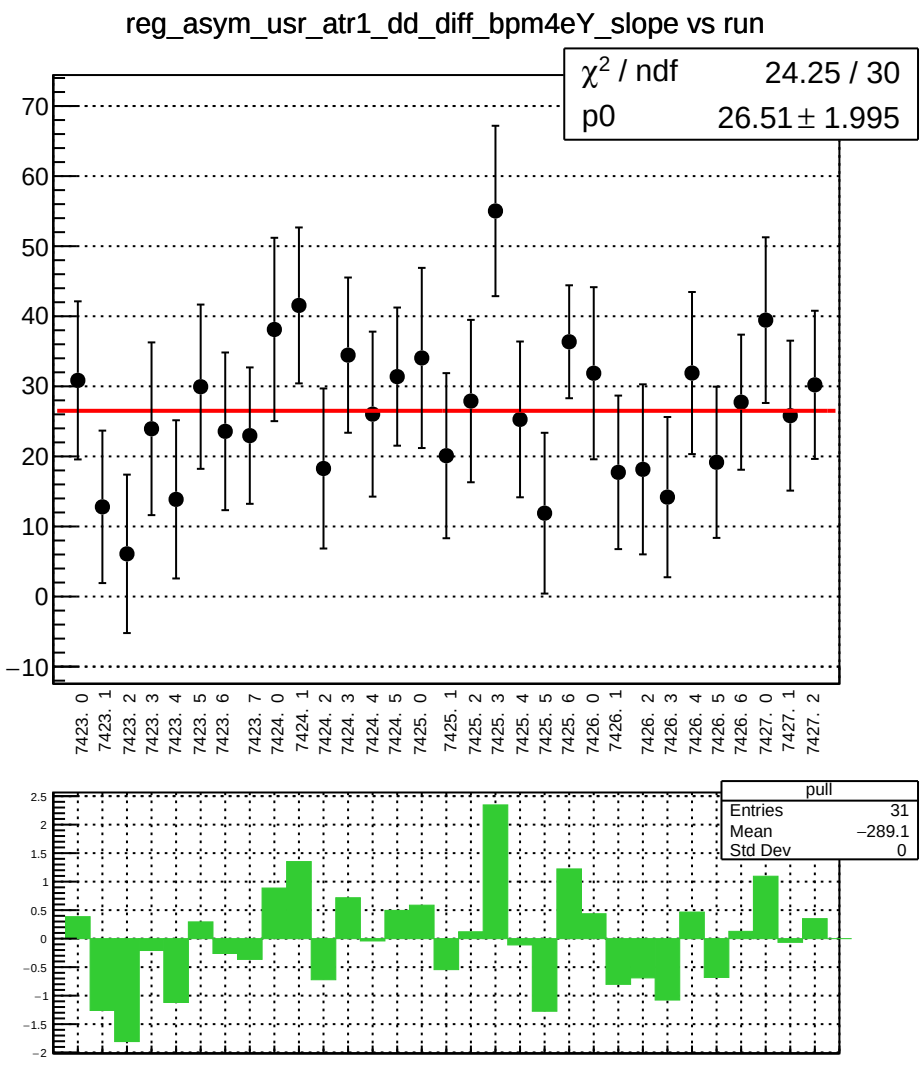

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 36.84 / 30
p0 −28.73 ± 0.1112
−27
−28
−29
−30
−31
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −96.55
Std Dev 0
2
1
0
−1
−2
−3

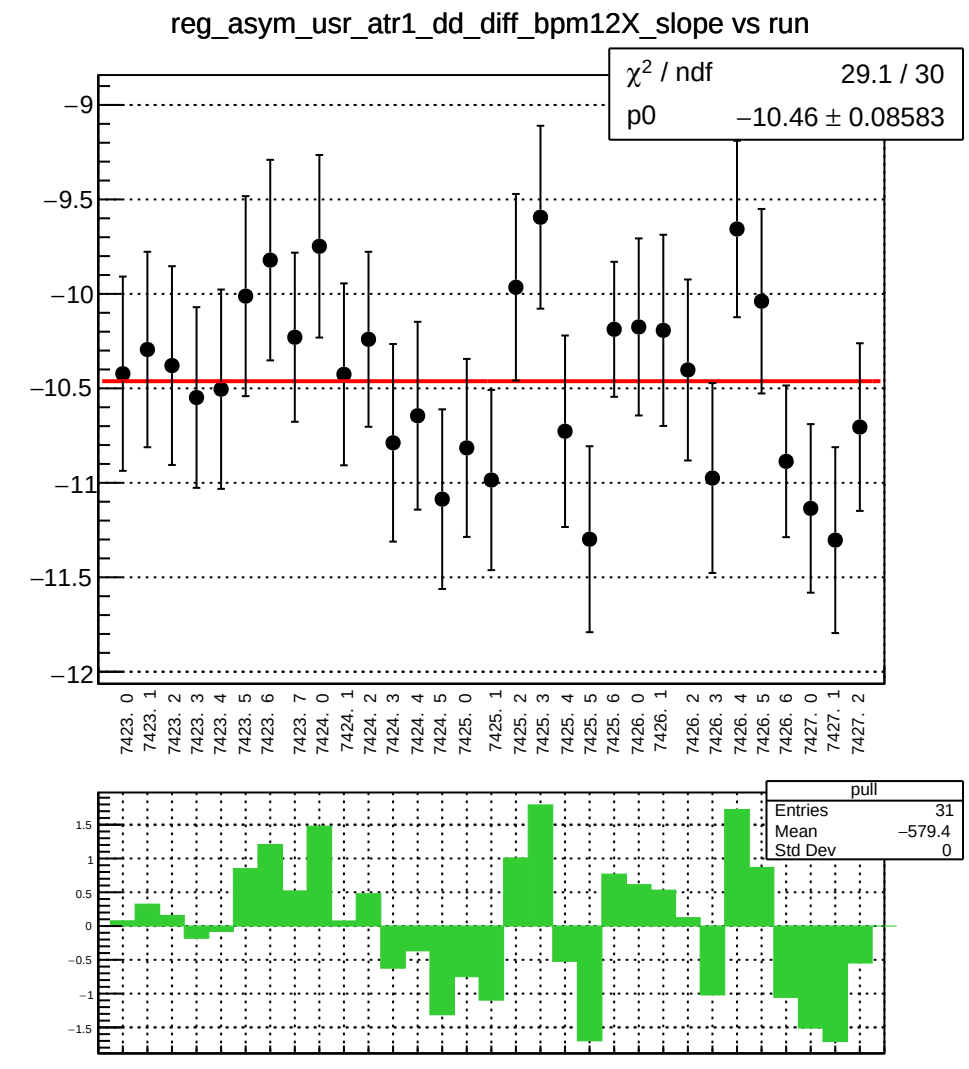

pull1D
Entries 31
Mean −0.01973
Std Dev 1.09
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

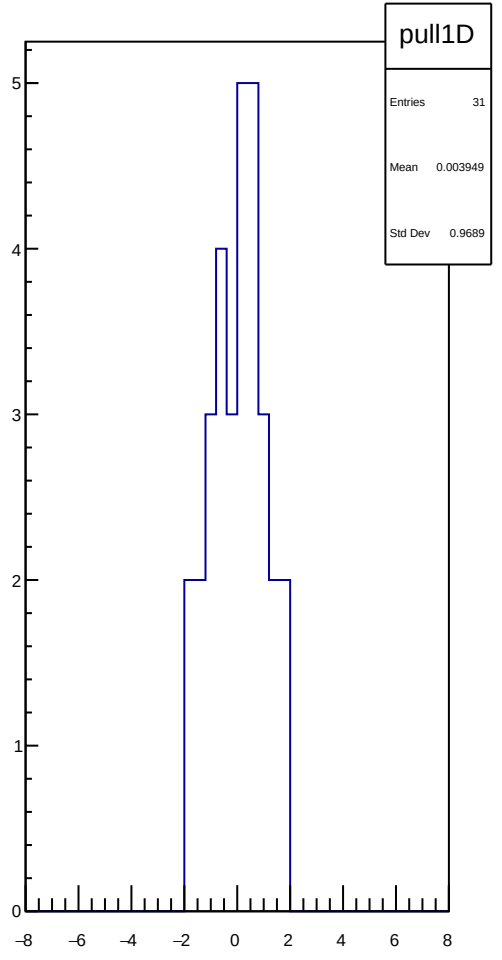

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 12.18 / 30
p0 9.925 ± 1.961
40
30
20
10
0
−10
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 33.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.00448
Std Dev 0.6268
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

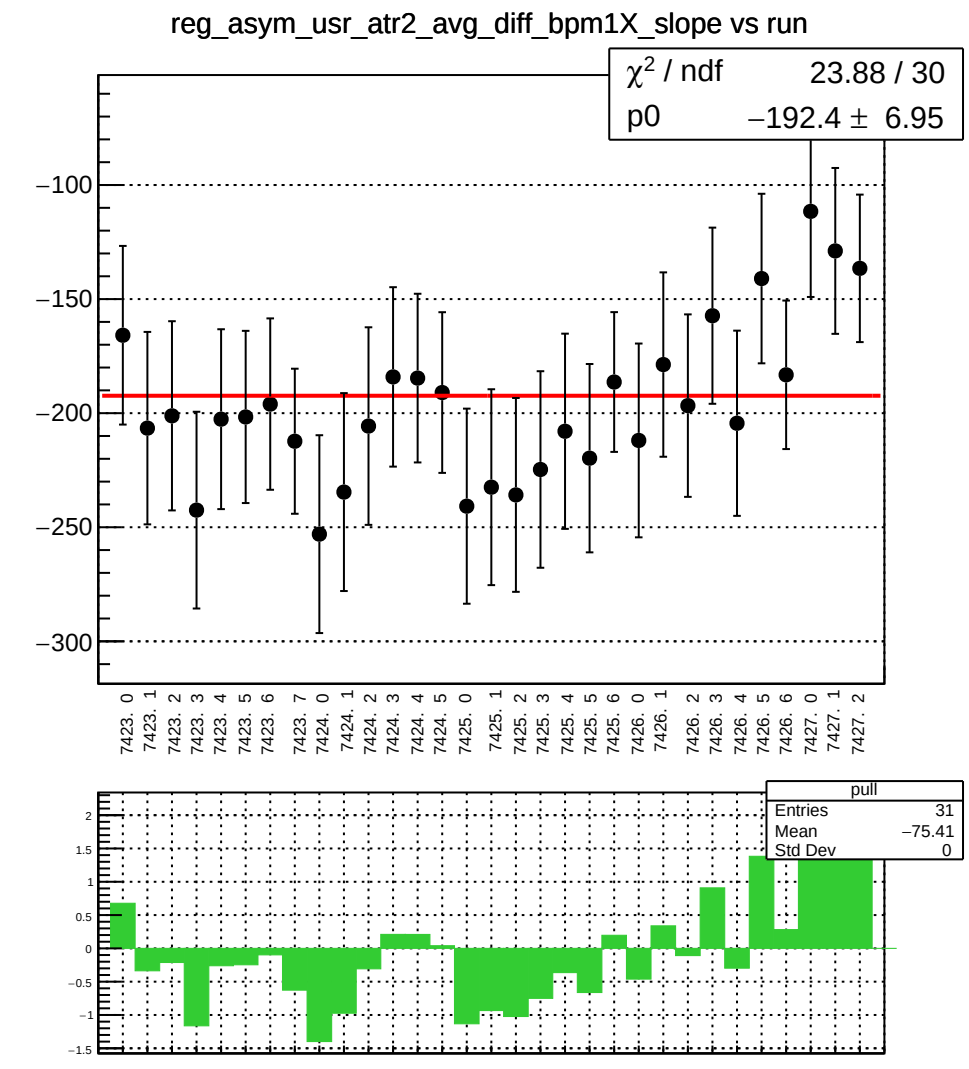

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.14 / 30
p0 −12.04 ± 1.877
pull
Entries 31
Mean 227.9
Std Dev 0
pull1D
Entries 31
Mean −0.008328
Std Dev 0.9357

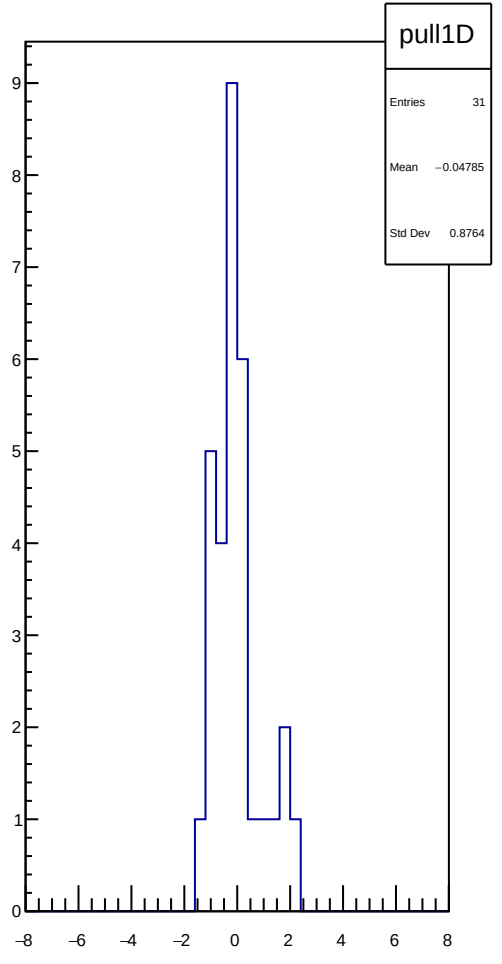

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.82 / 30
p0 48.31 ± 2.027
70
60
50
40
30
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 106
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.002836
Std Dev 0.643
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

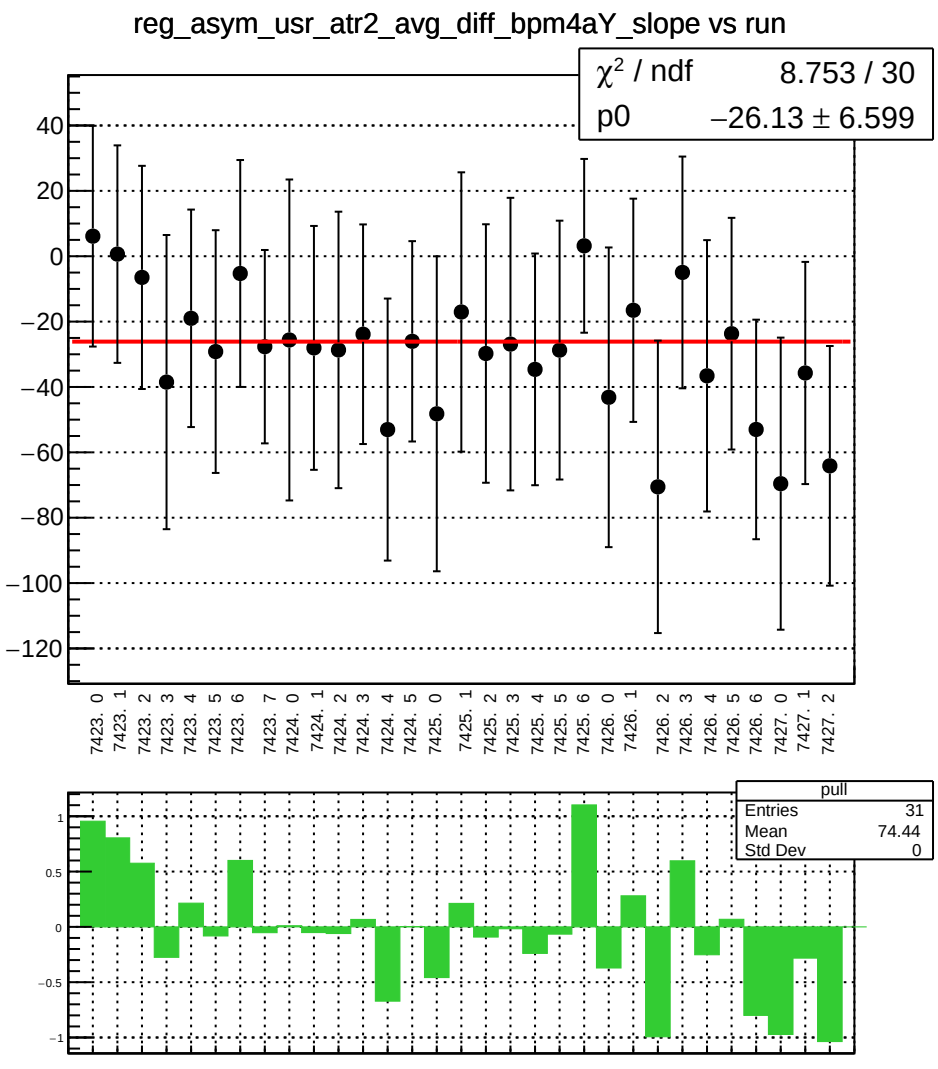

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.25 / 30
p0 26.51 ± 1.995
pull
Entries 31
Mean −289.1
Std Dev 0
pull1D
Entries 31
Mean −0.00445
Std Dev 0.8844

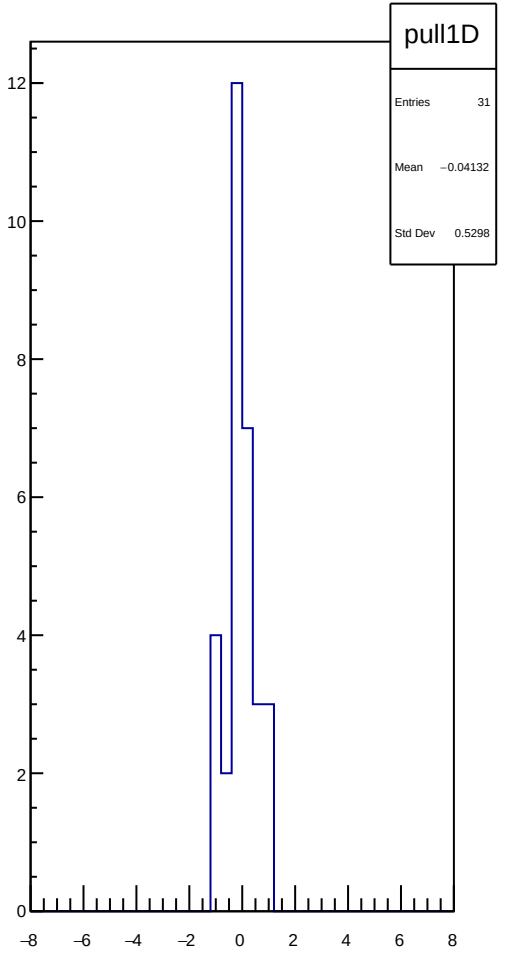

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 29.1 / 30
p0 −10.46 ± 0.08583
−9
−9.5
−10
−10.5
−11
−11.5
−12
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −579.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

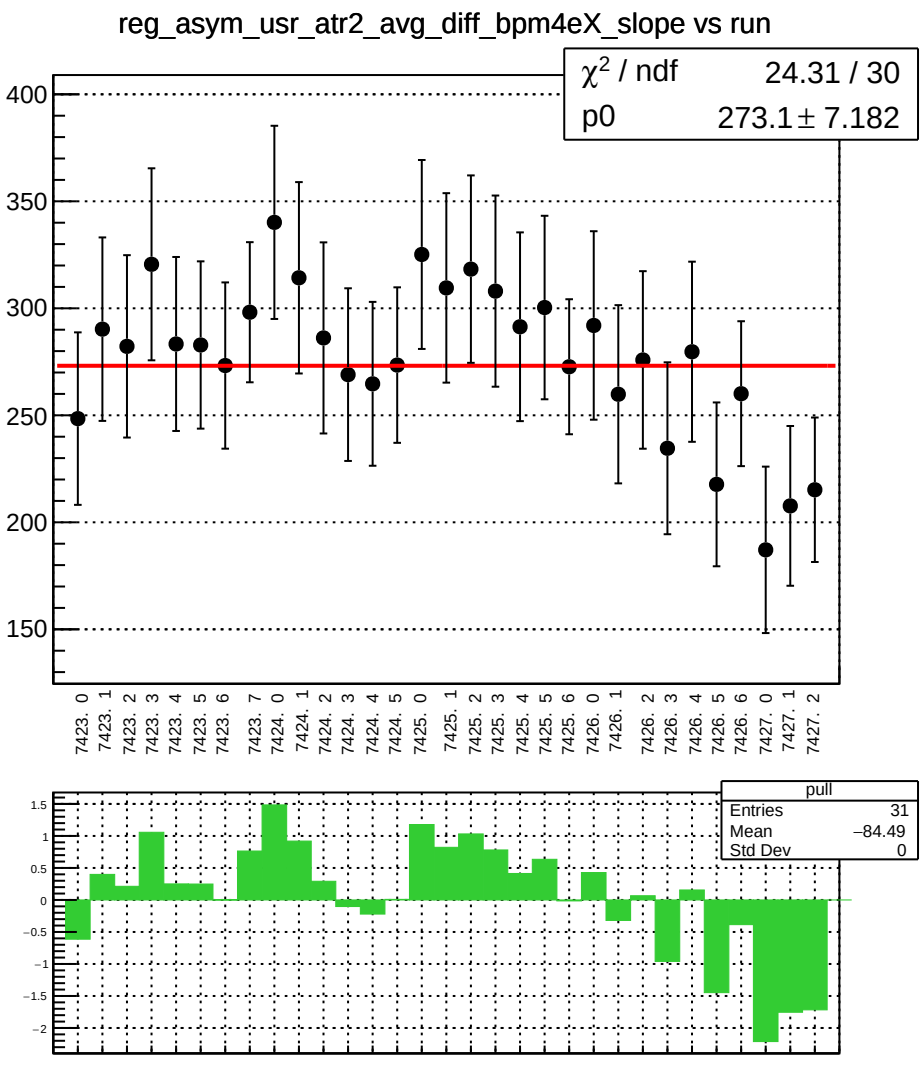

pull1D
Entries 31
Mean 0.003949
Std Dev 0.9689
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

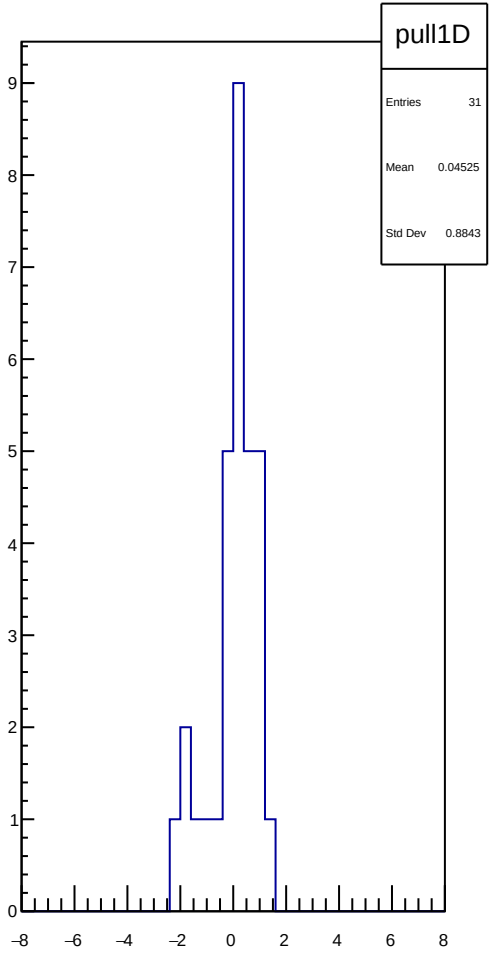

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 23.88 / 30
p0 −192.4 ± 6.95
−100
−150
−200
−250
−300
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −75.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

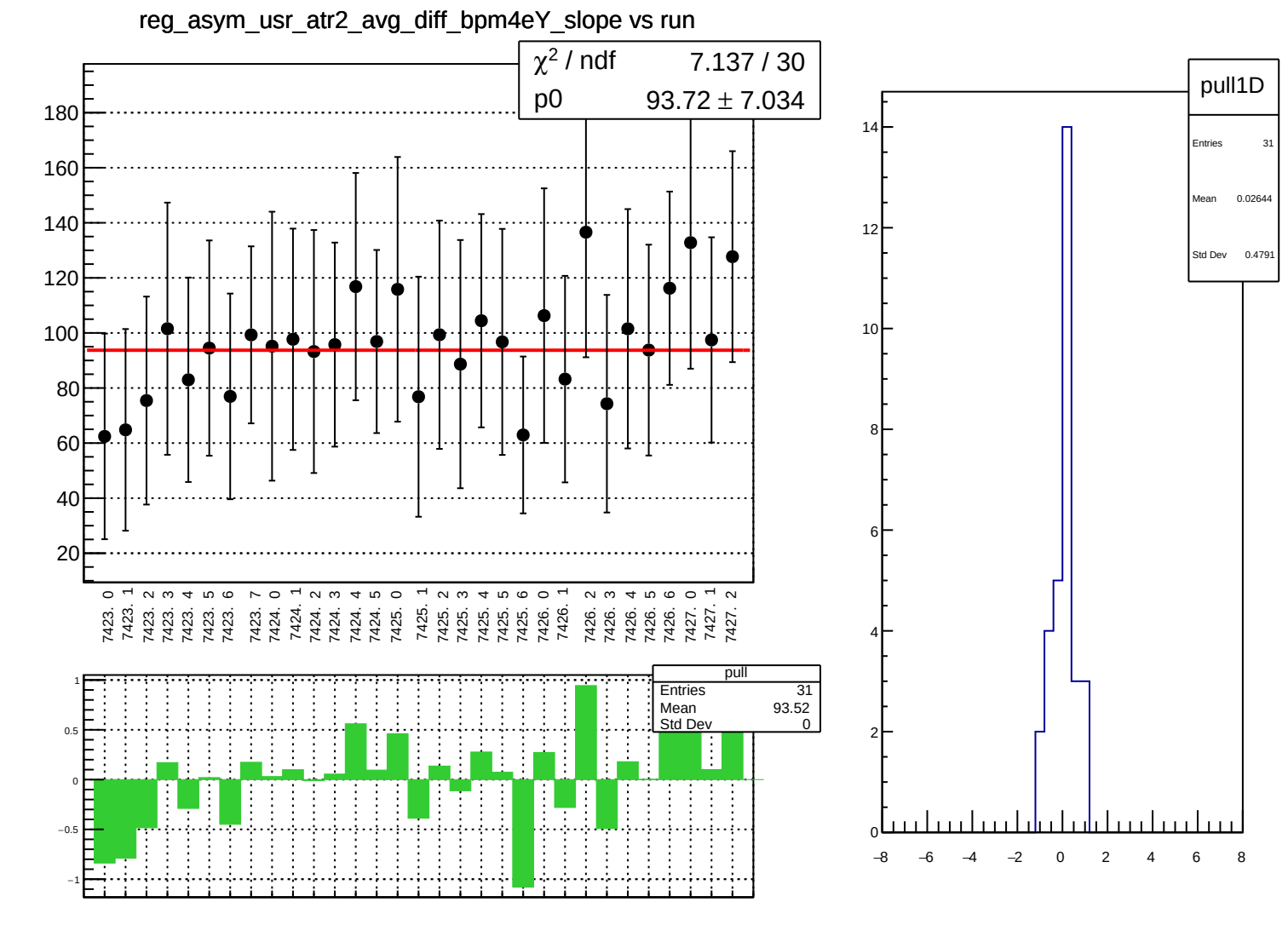

pull1D
Entries 31
Mean −0.04785
Std Dev 0.8764
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

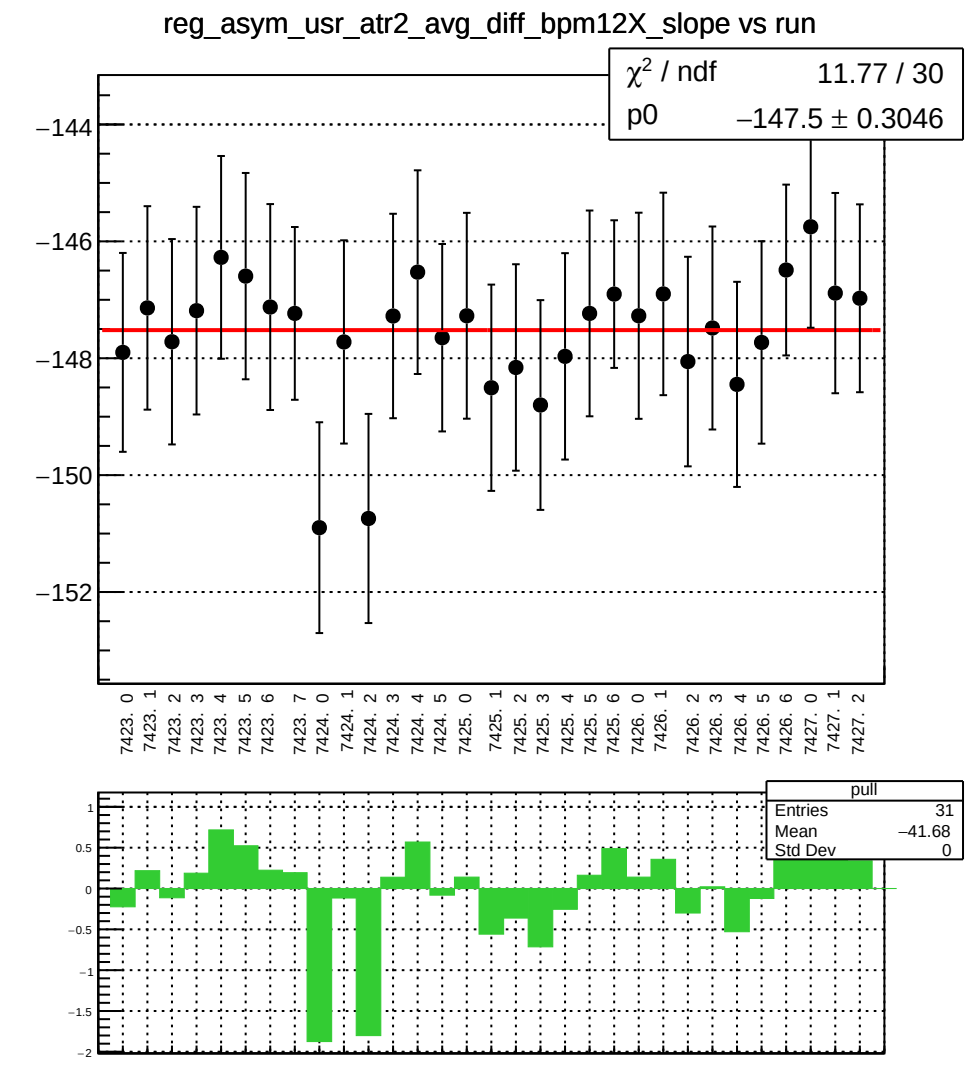

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.753 / 30
p0 −26.13 ± 6.599
40
20
0
−20
−40
−60
−80
−100
−120
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 74.44
Std Dev 0
1
0.5
0
−0.5
−1

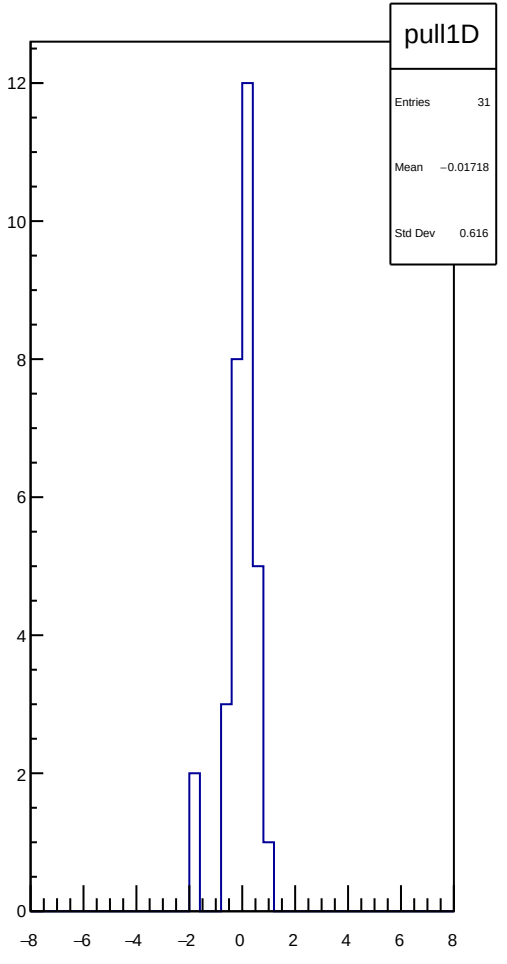

pull1D
Entries 31
Mean −0.04132
Std Dev 0.5298
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

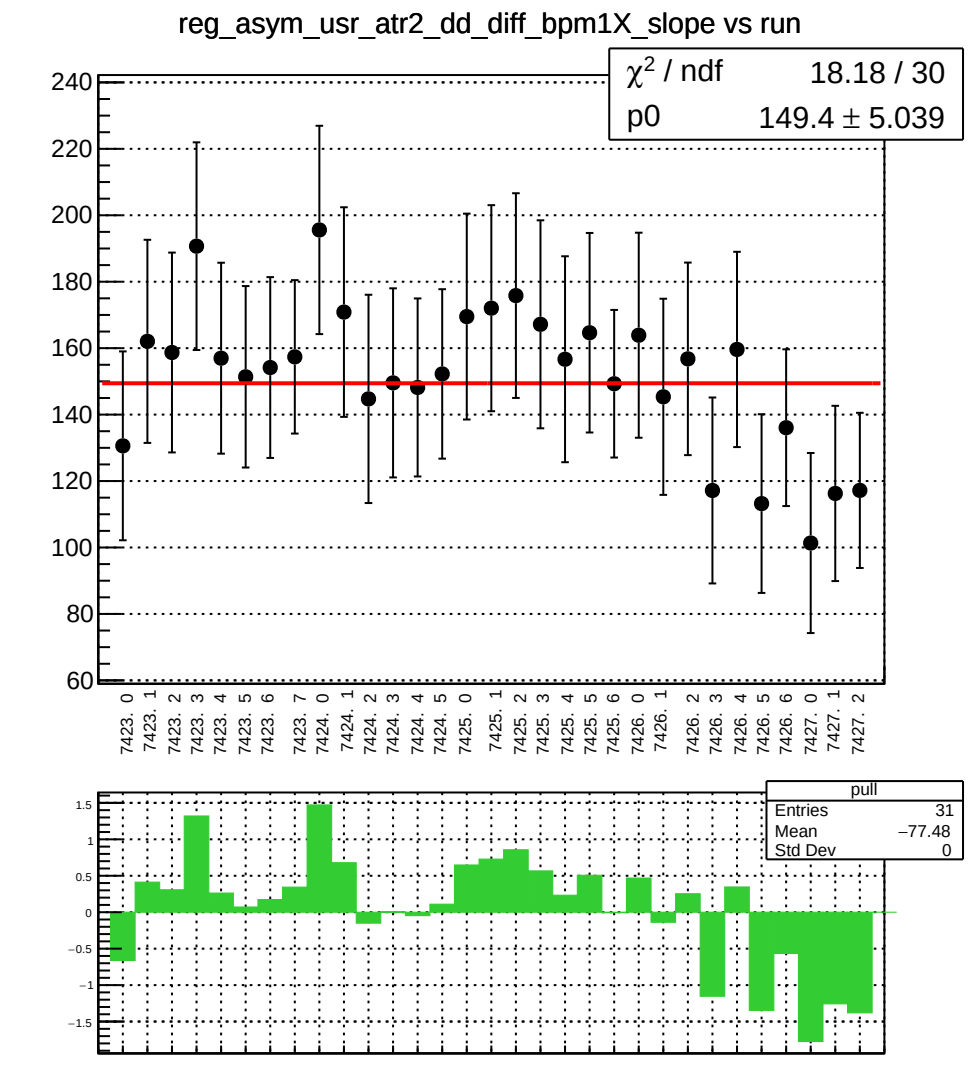

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.31 / 30
p0 273.1 ± 7.182
400
350
300
250
200
150
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −84.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

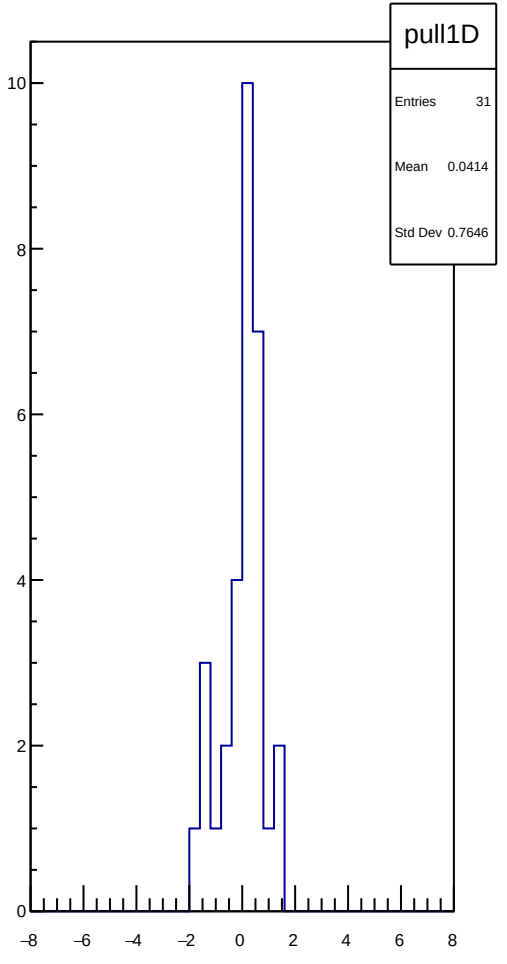

pull1D
Entries 31
Mean 0.04525
Std Dev 0.8843
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

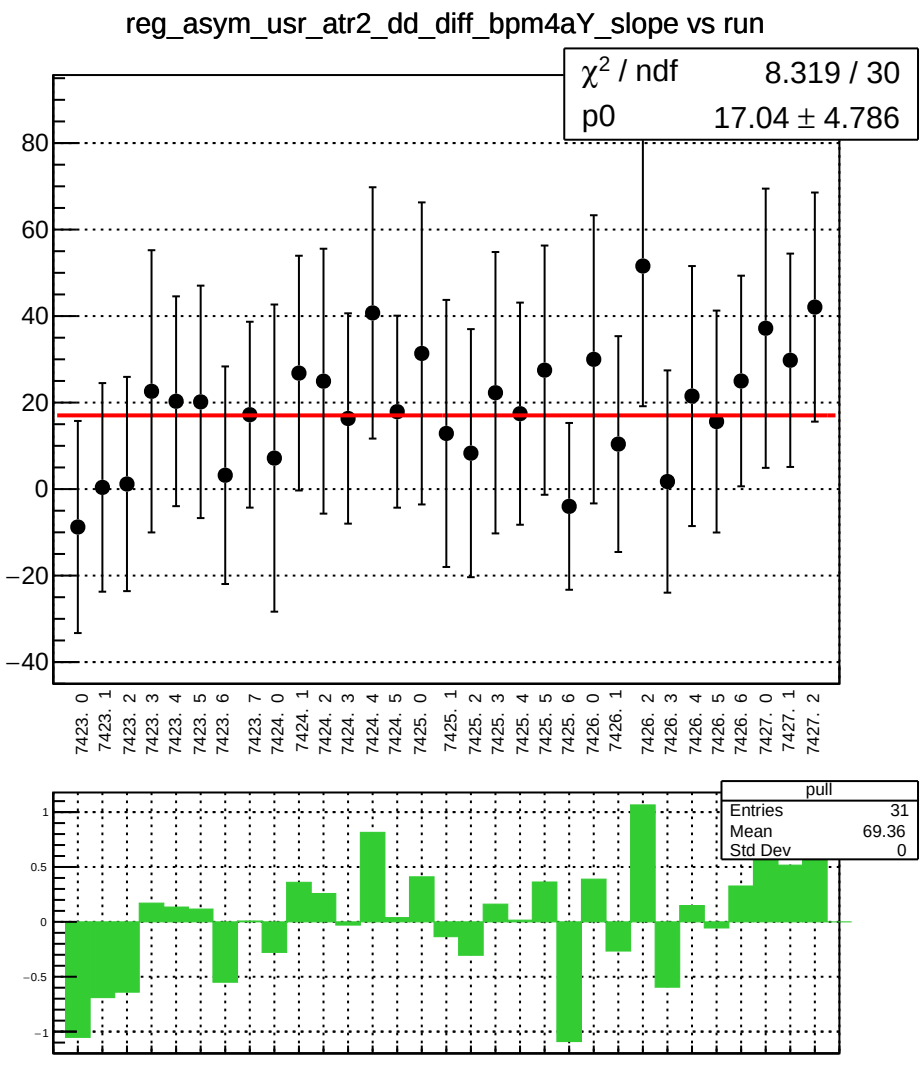

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.137 / 30
p0 93.72 ± 7.034
pull
Entries 31
Mean 93.52
Std Dev 0
pull1D
Entries 31
Mean 0.02644
Std Dev 0.4791

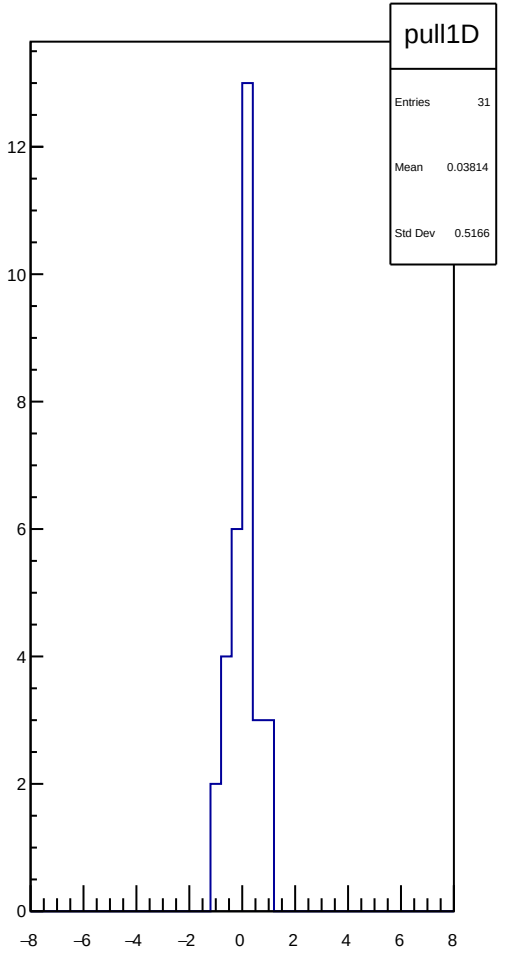

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.77 / 30
p0 −147.5 ± 0.3046
−144
−146
−148
−150
−152
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −41.68
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

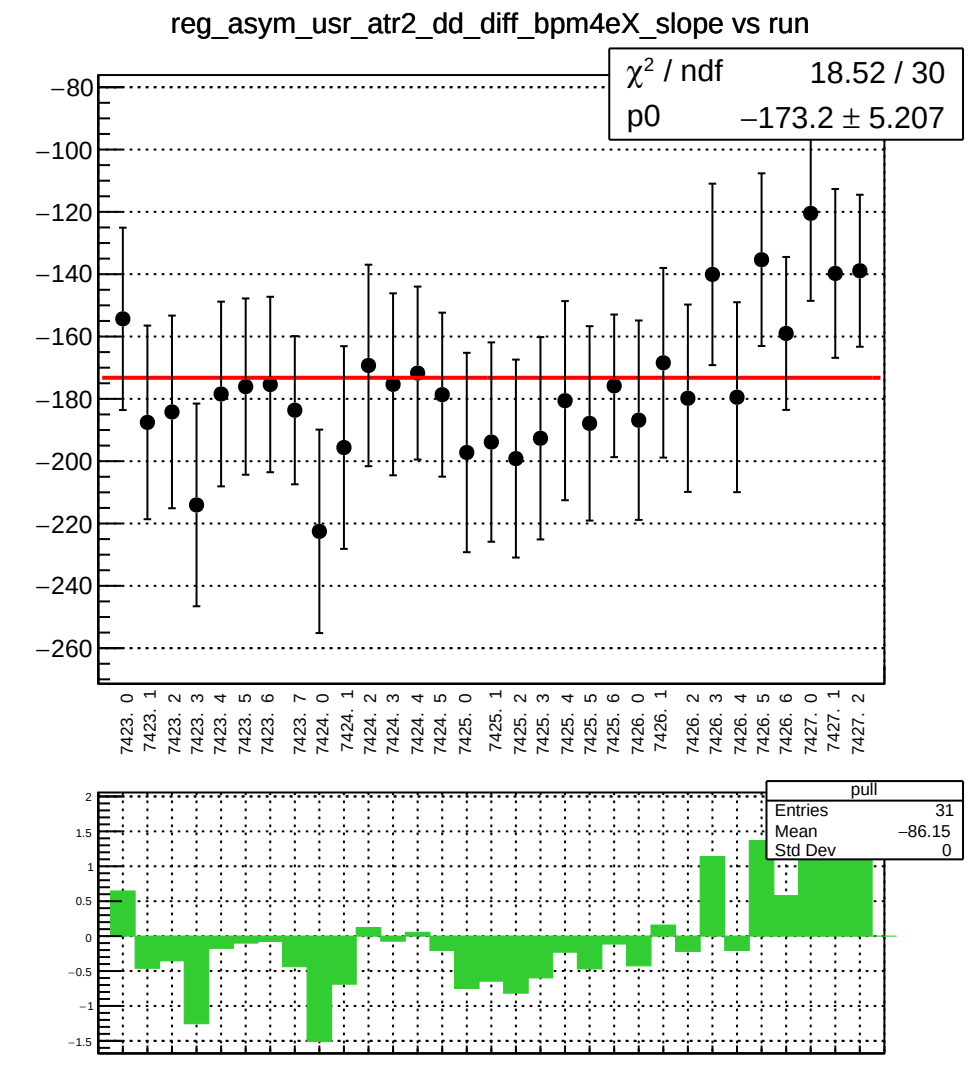

pull1D
Entries 31
Mean −0.01718
Std Dev 0.616
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

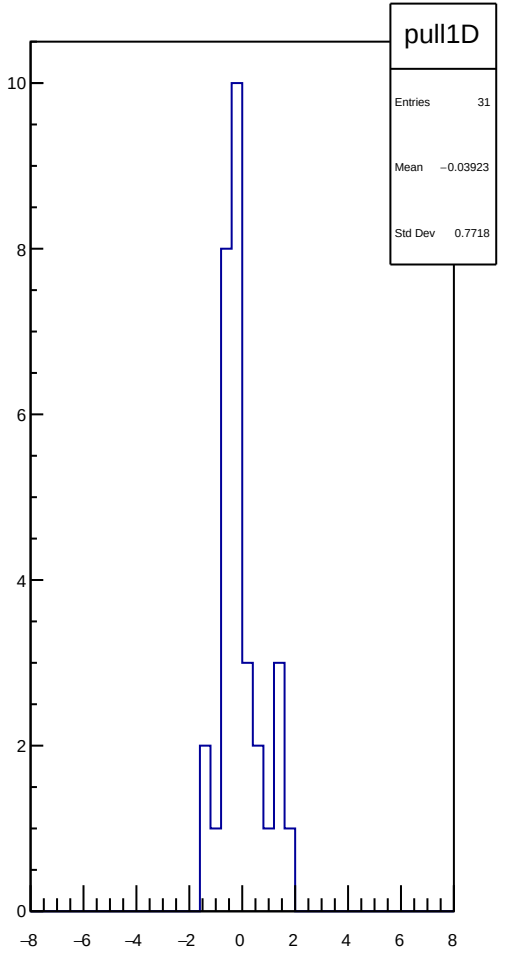

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 18.18 / 30
p0 149.4 ± 5.039
240
220
200
180
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −77.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

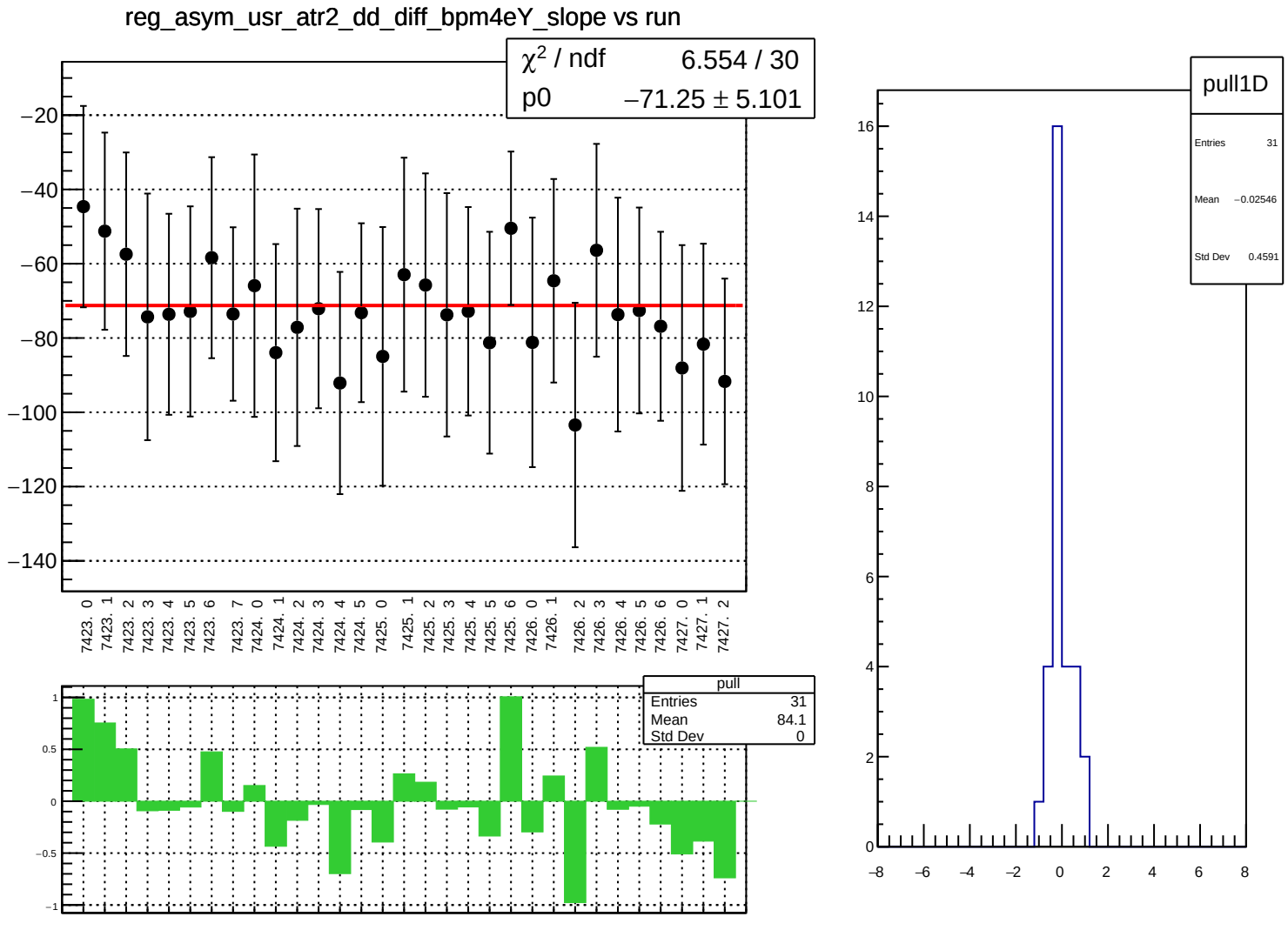

pull1D
Entries 31
Mean 0.0414
Std Dev 0.7646
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

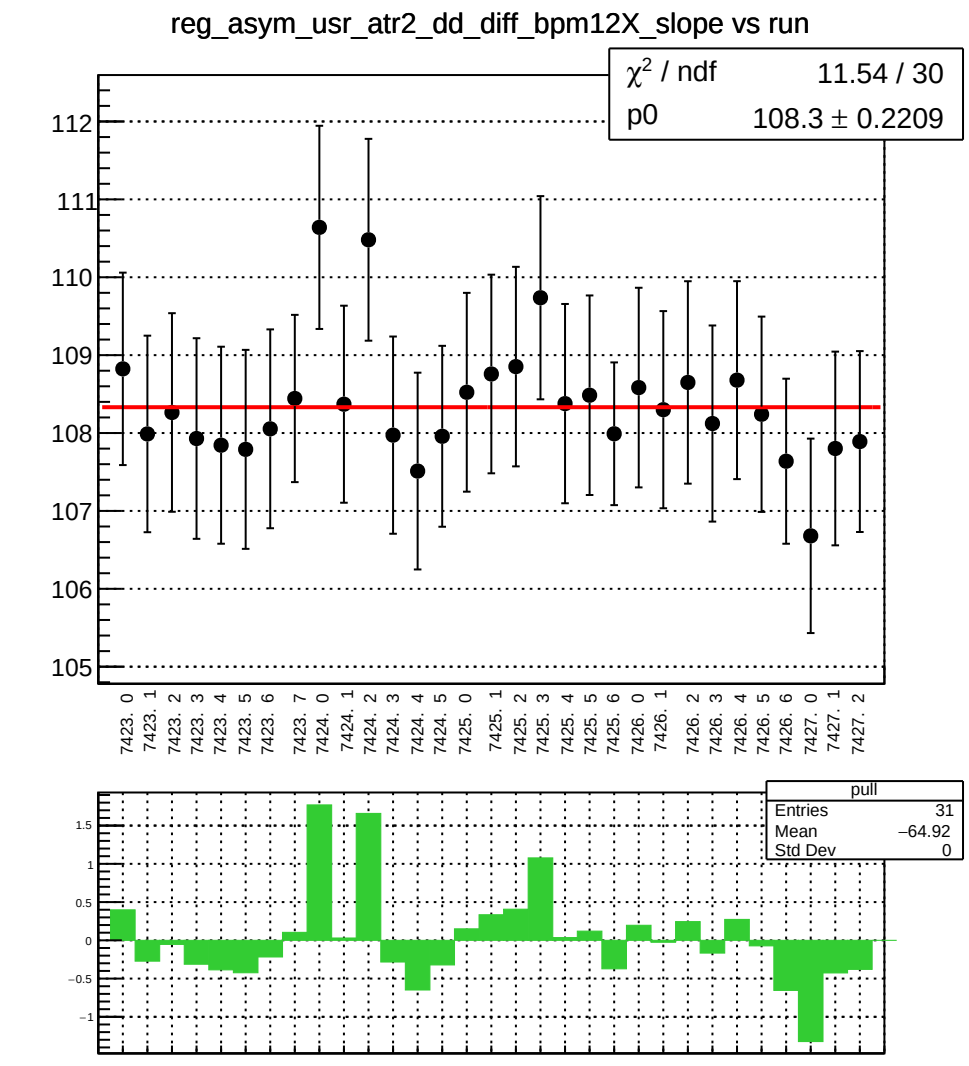

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.319 / 30
p0 17.04 ± 4.786
80
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 69.36
Std Dev 0
1
0.5
0
−0.5
−1

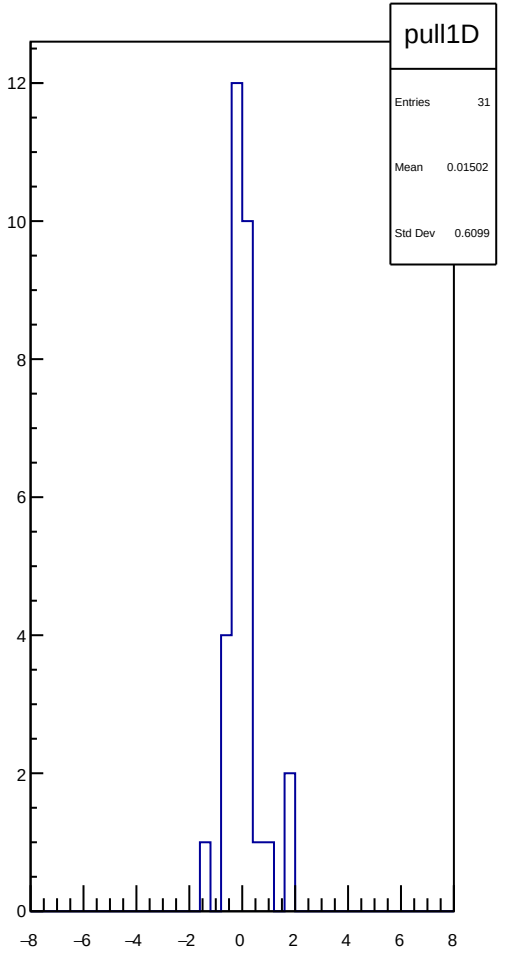

pull1D
Entries 31
Mean 0.03814
Std Dev 0.5166
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

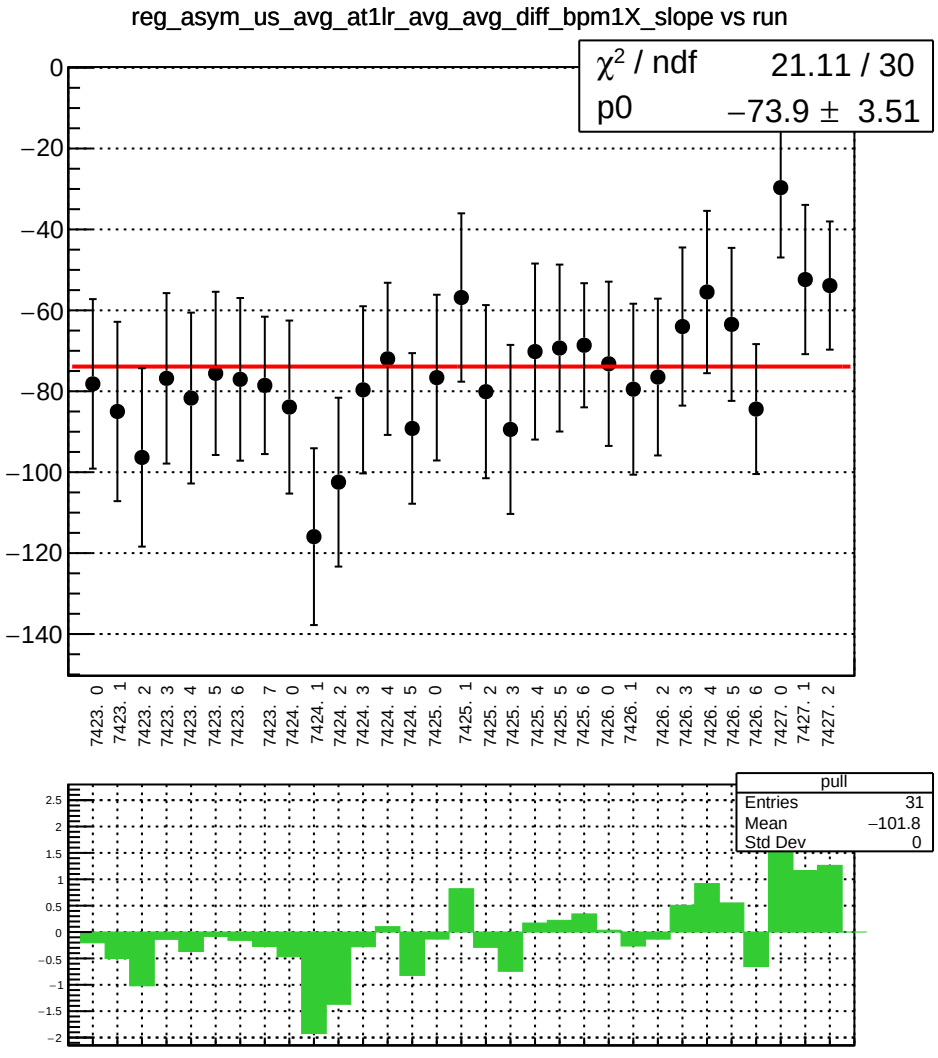

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.52 / 30
p0 −173.2 ± 5.207
−80
−100
−120
−140
−160
−180
−200
−220
−240
−260
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −86.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

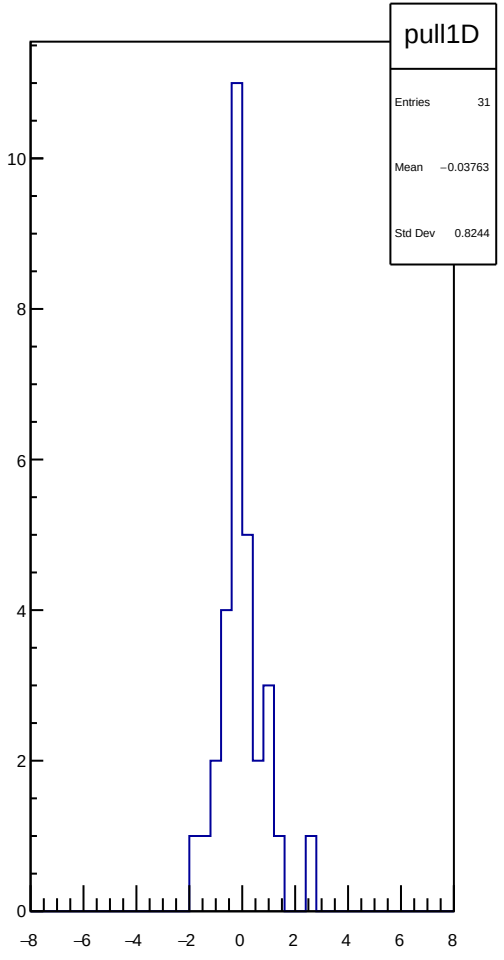

pull1D
Entries 31
Mean −0.03923
Std Dev 0.7718
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

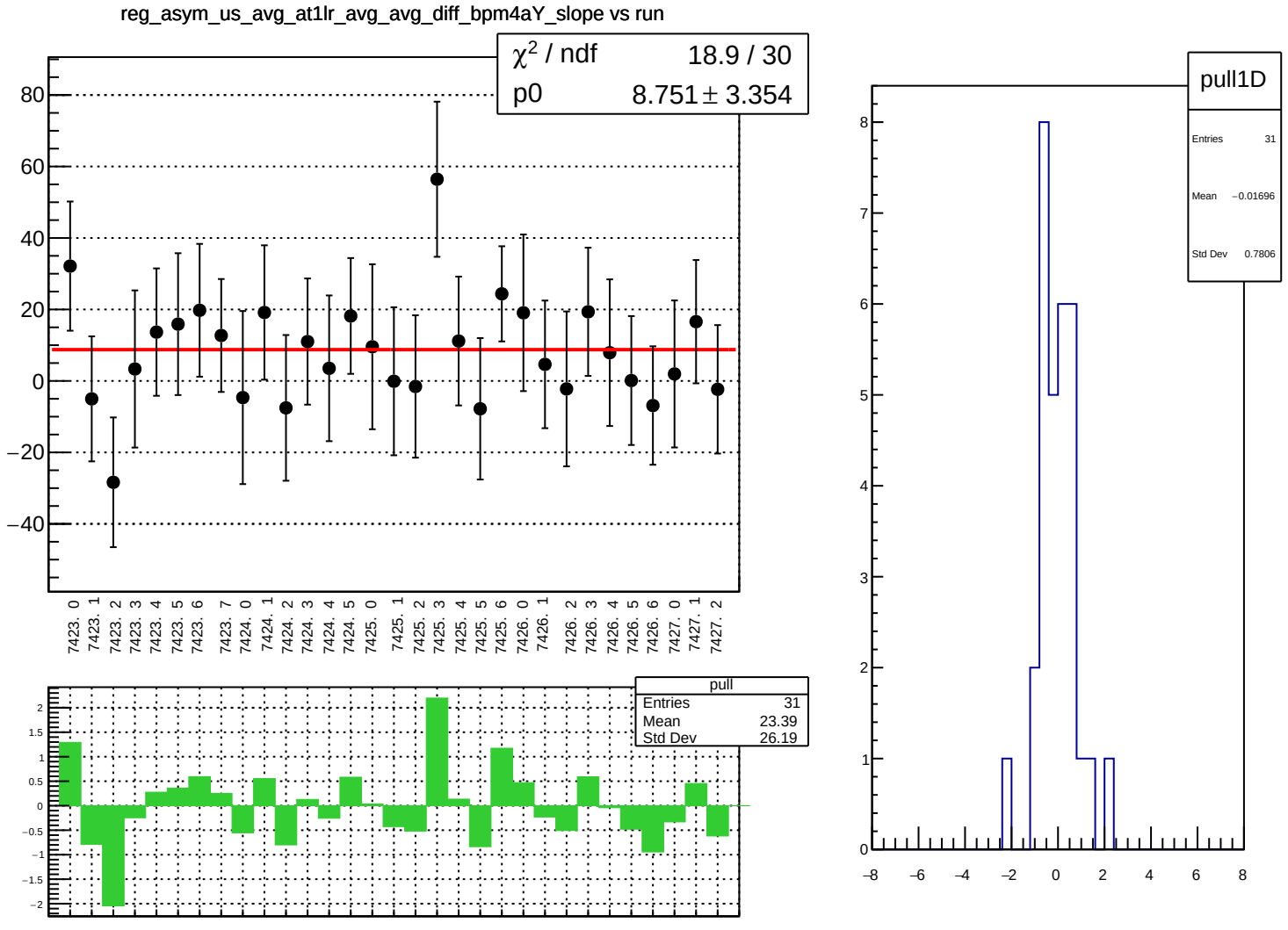

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.554 / 30
p0 −71.25 ± 5.101
−20
−40
−60
−80
−100
−120
−140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 84.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.02546
Std Dev 0.4591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

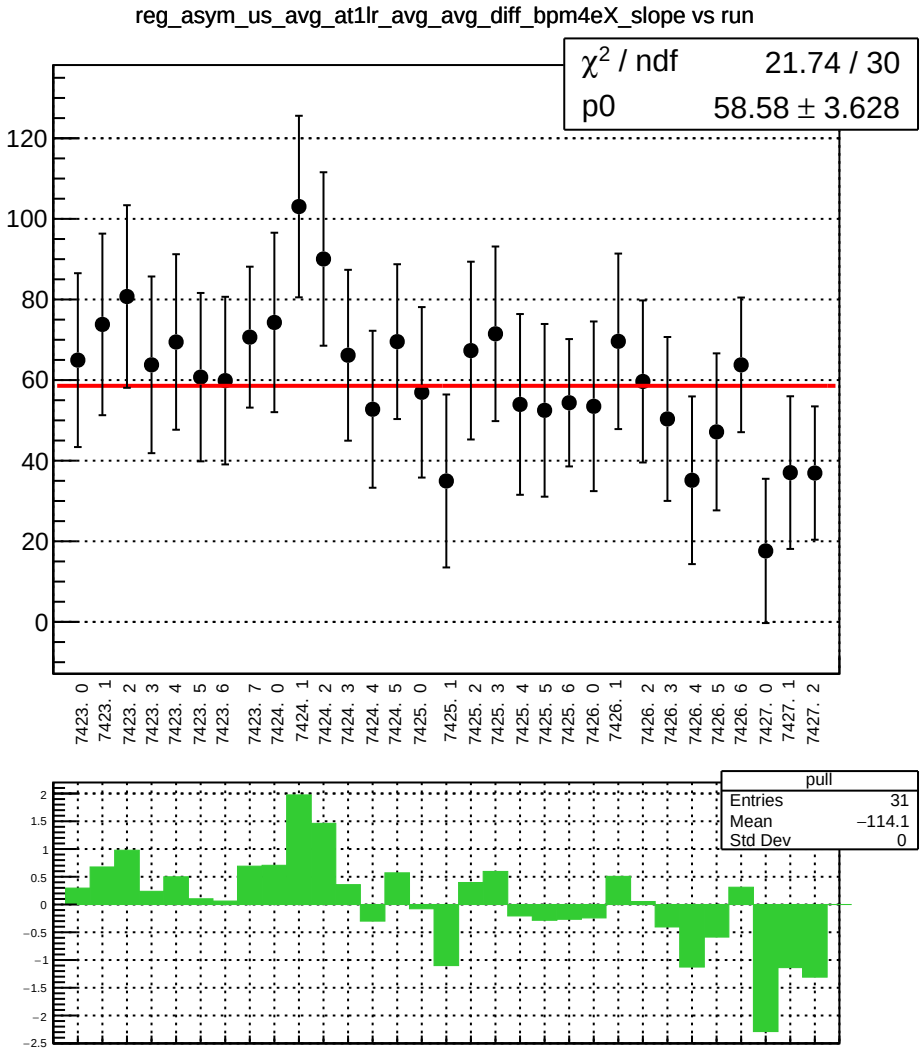

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 11.54 / 30
p0 108.3 ± 0.2209
112
111
110
109
108
107
106
105
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −64.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1

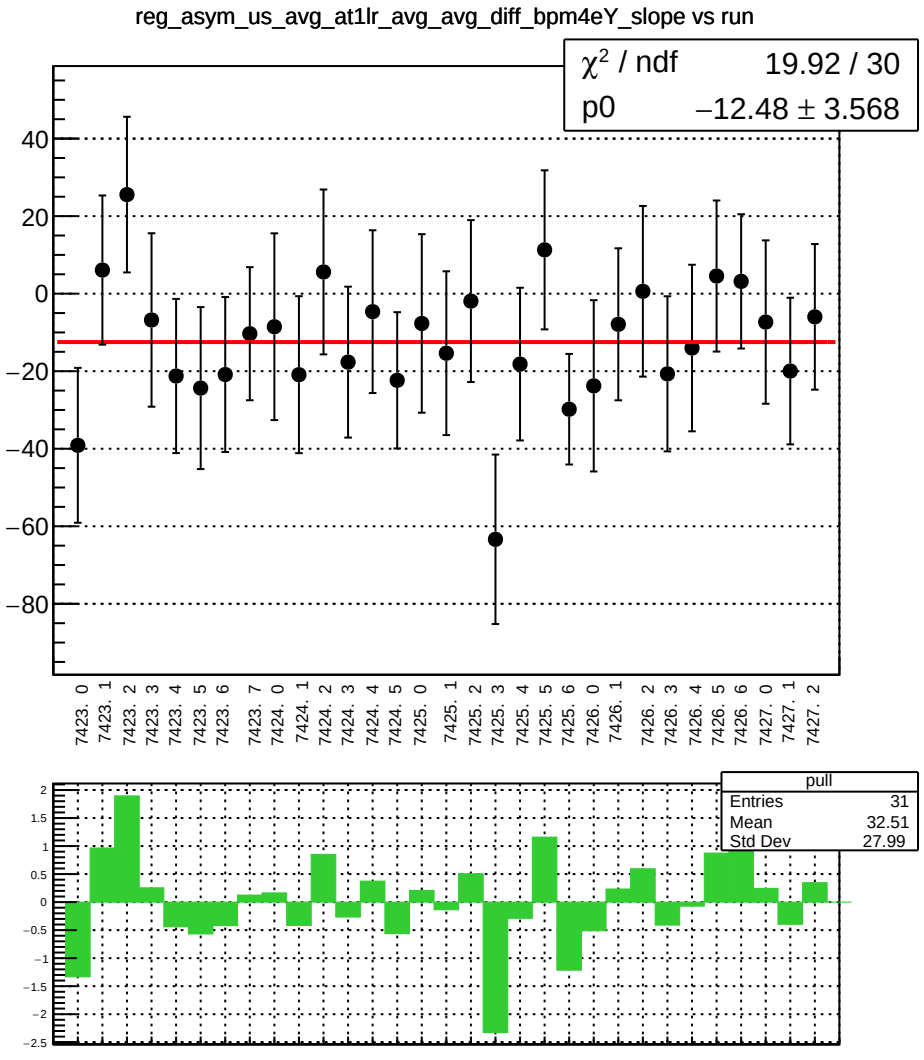

pull1D
Entries 31
Mean 0.01502
Std Dev 0.6099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

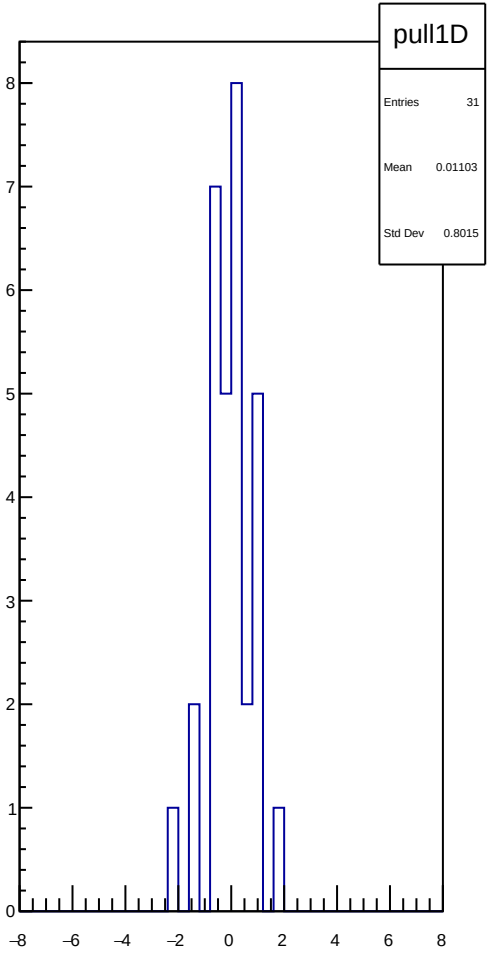

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 21.11 / 30
p0 −73.9 ± 3.51
0
−20
−40
−60
−80
−100
−120
−140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −101.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

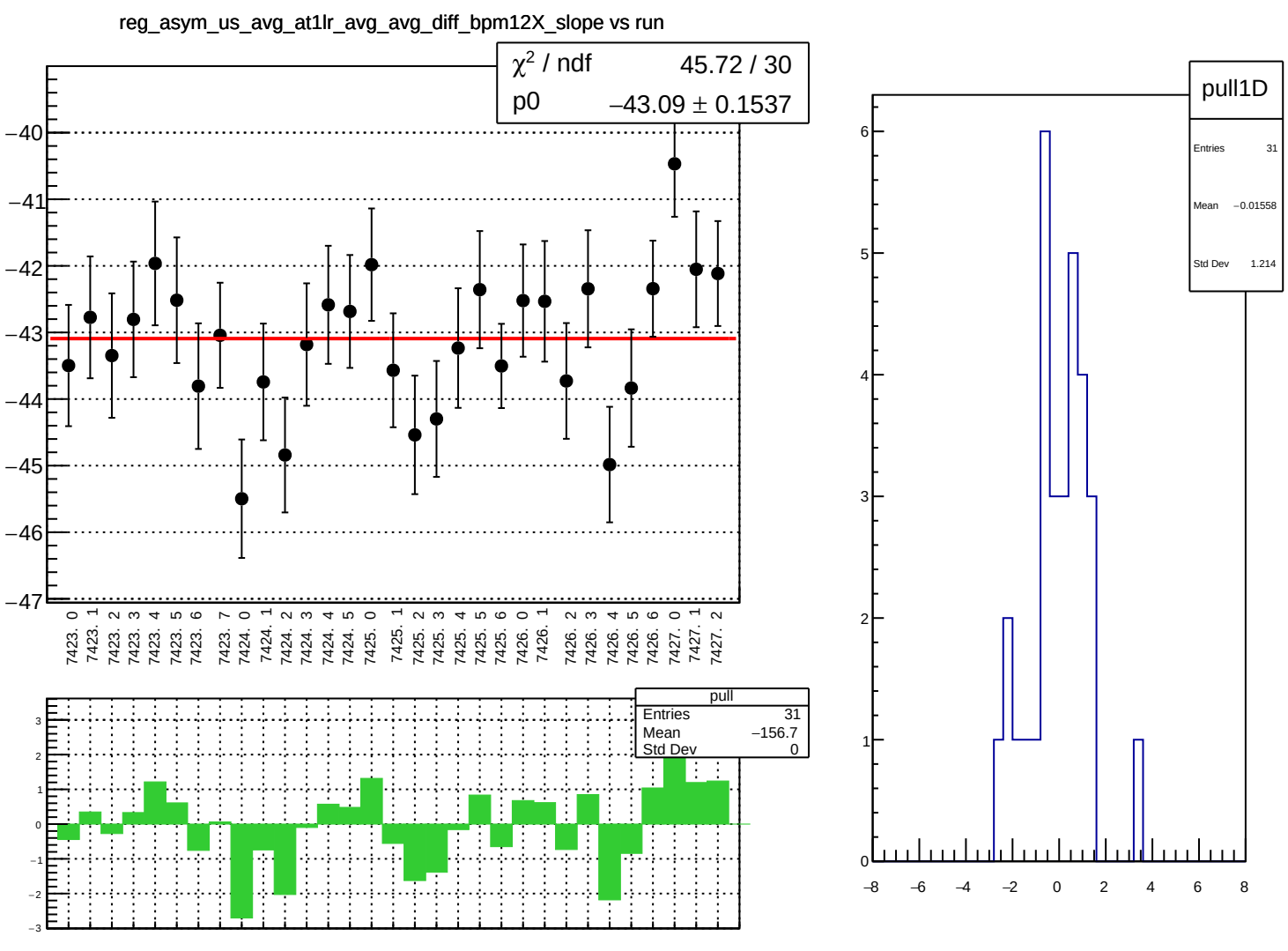

pull1D
Entries 31
Mean −0.03763
Std Dev 0.8244
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

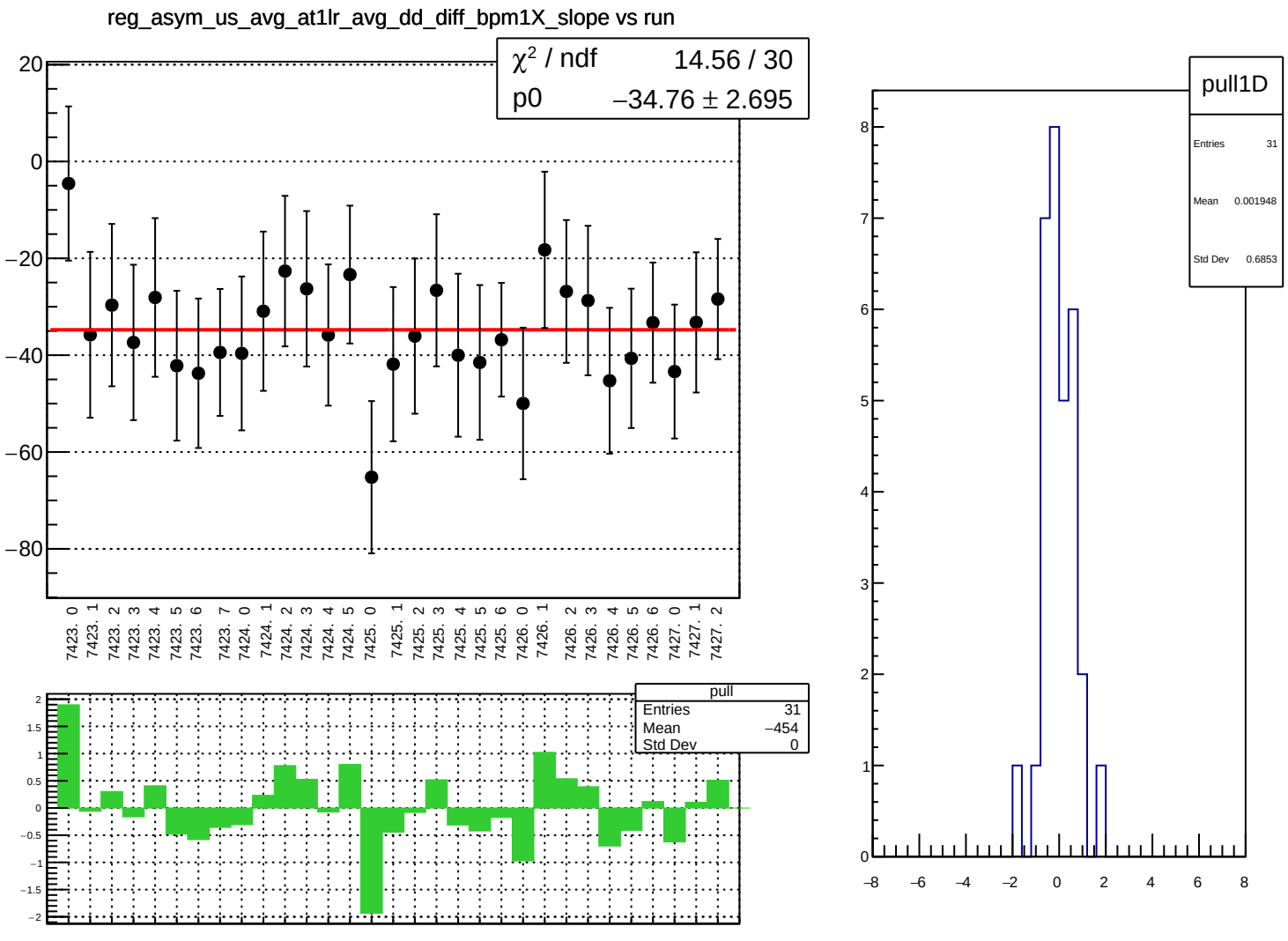

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.9 / 30
p0 8.751 ± 3.354
80
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 23.39
Std Dev 26.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01696
Std Dev 0.7806
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

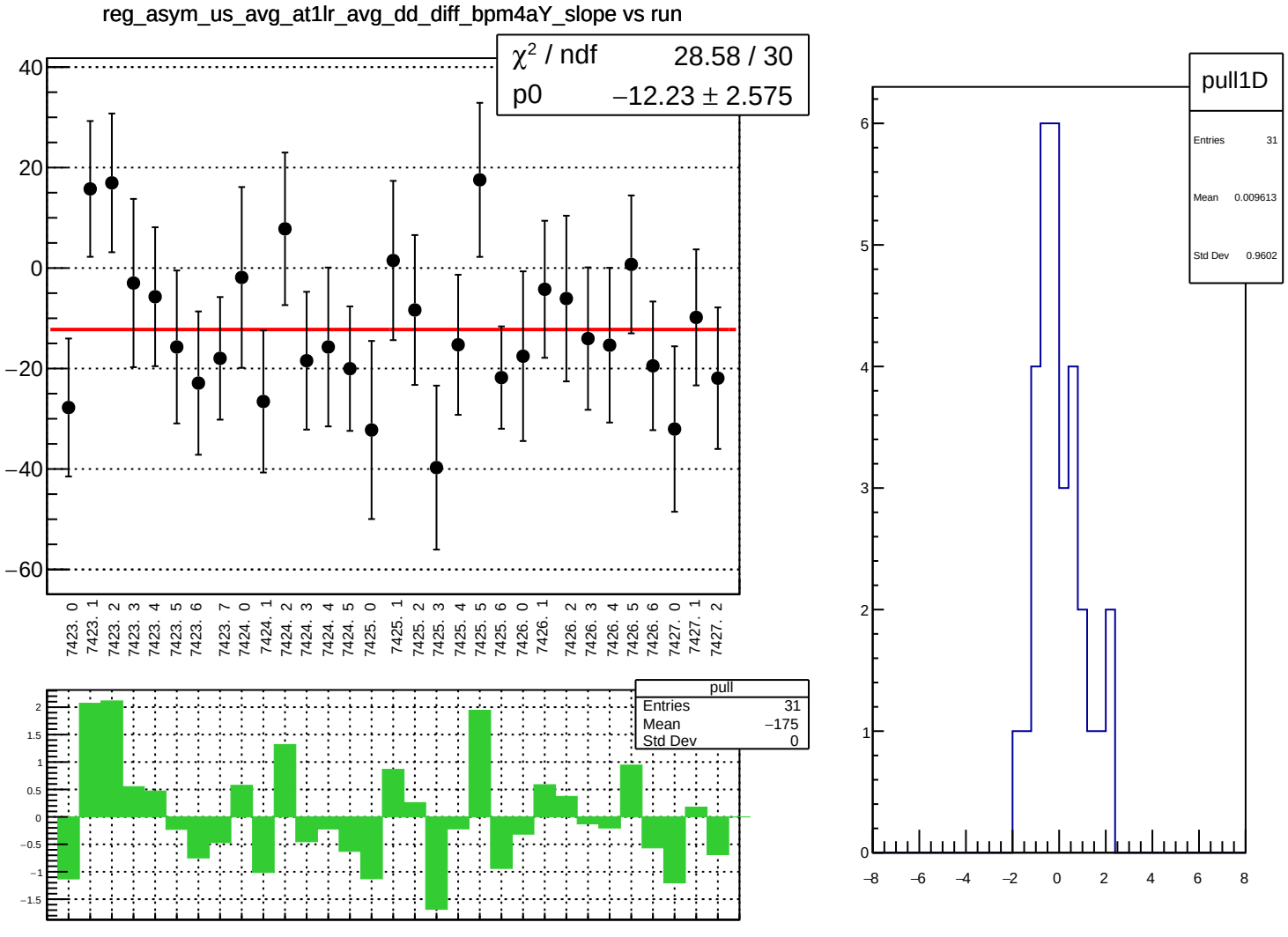

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.74 / 30
p0 58.58 ± 3.628
120
100
80
60
40
20
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −114.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.03725
Std Dev 0.8365
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

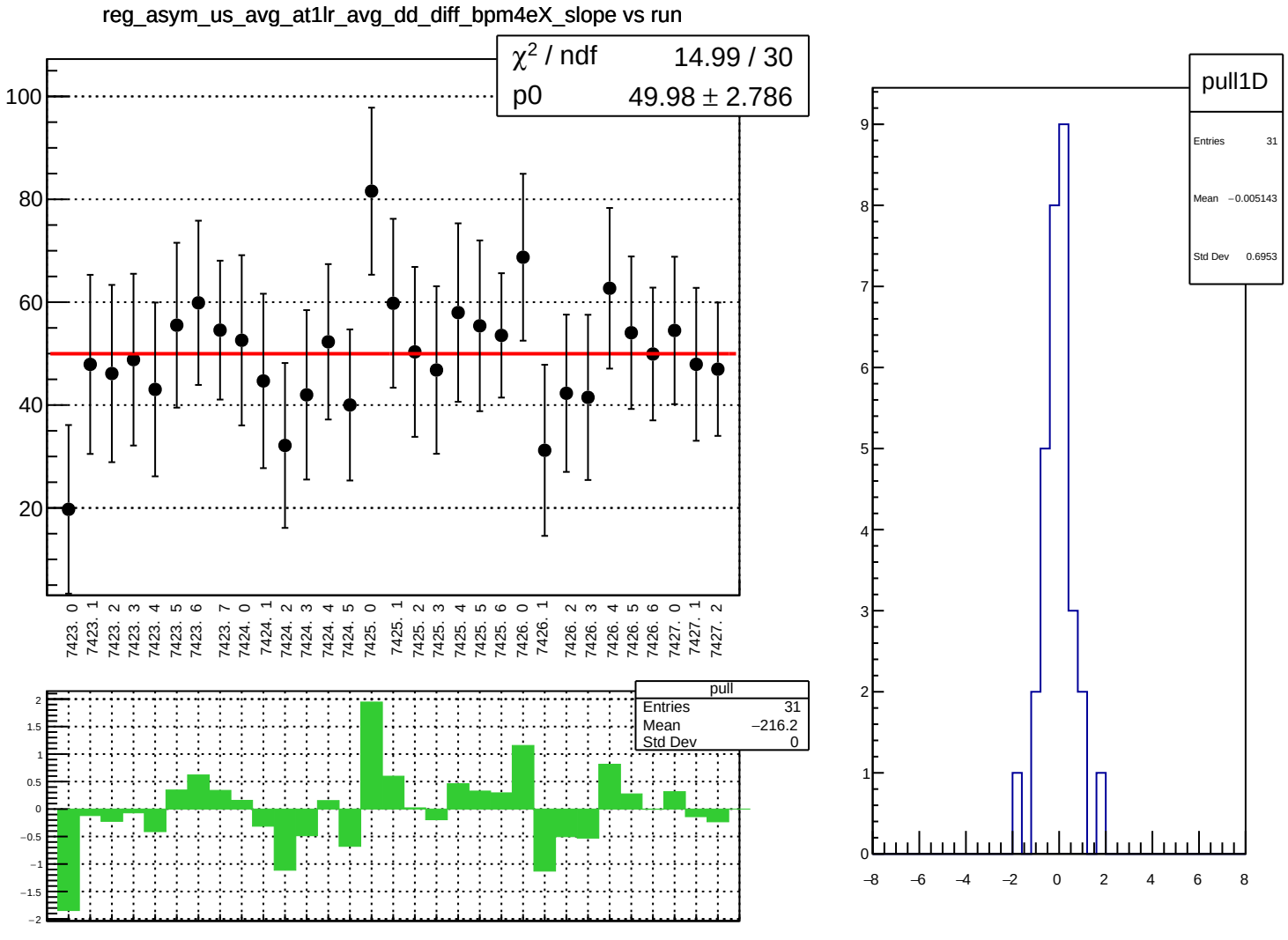

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.92 / 30
p0 −12.48 ± 3.568
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 32.51
Std Dev 27.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

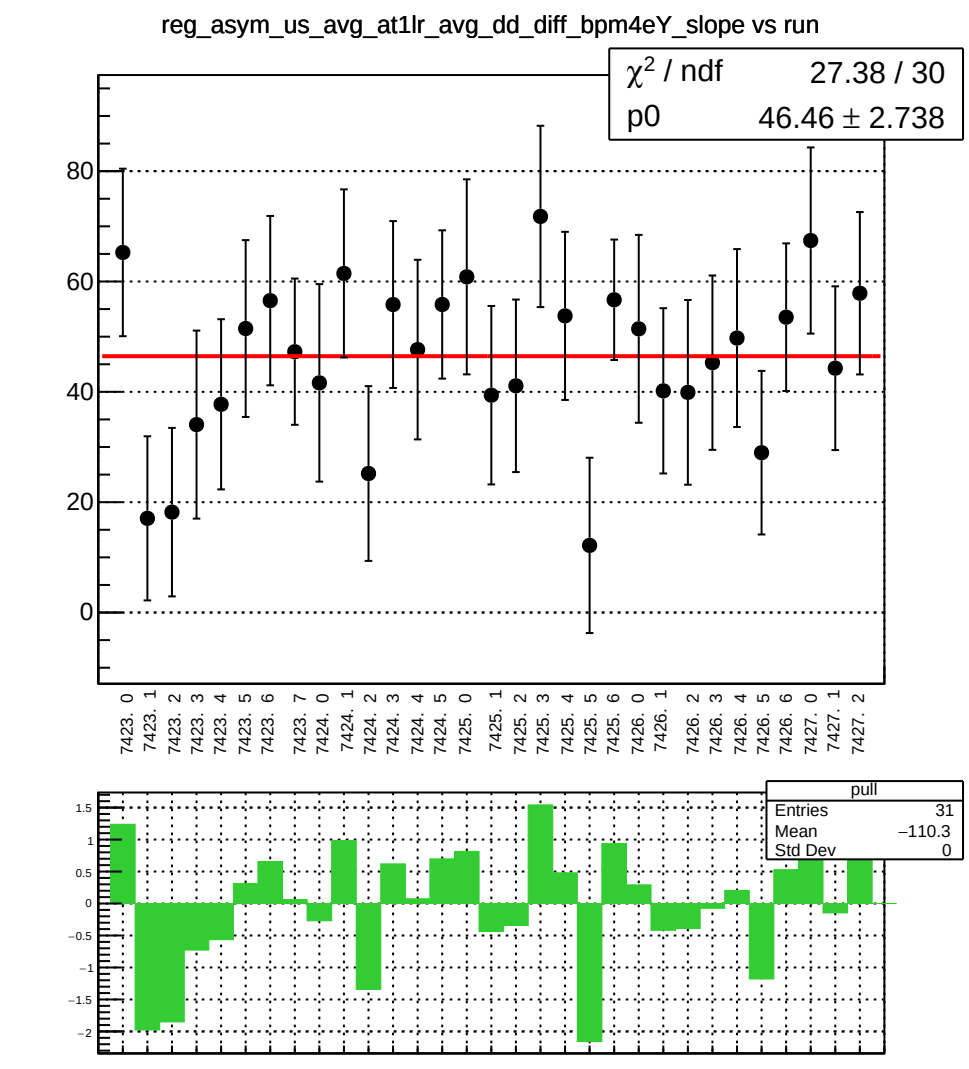

pull1D
Entries 31
Mean 0.01103
Std Dev 0.8015
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

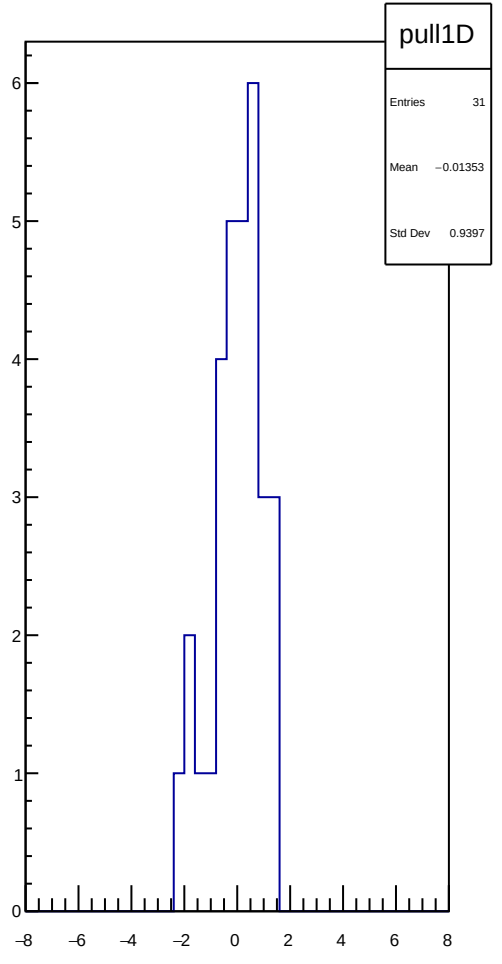

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 45.72 / 30
p0 −43.09 ± 0.1537
−40
−41
−42
−43
−44
−45
−46
−47
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −156.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.01558
Std Dev 1.214
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

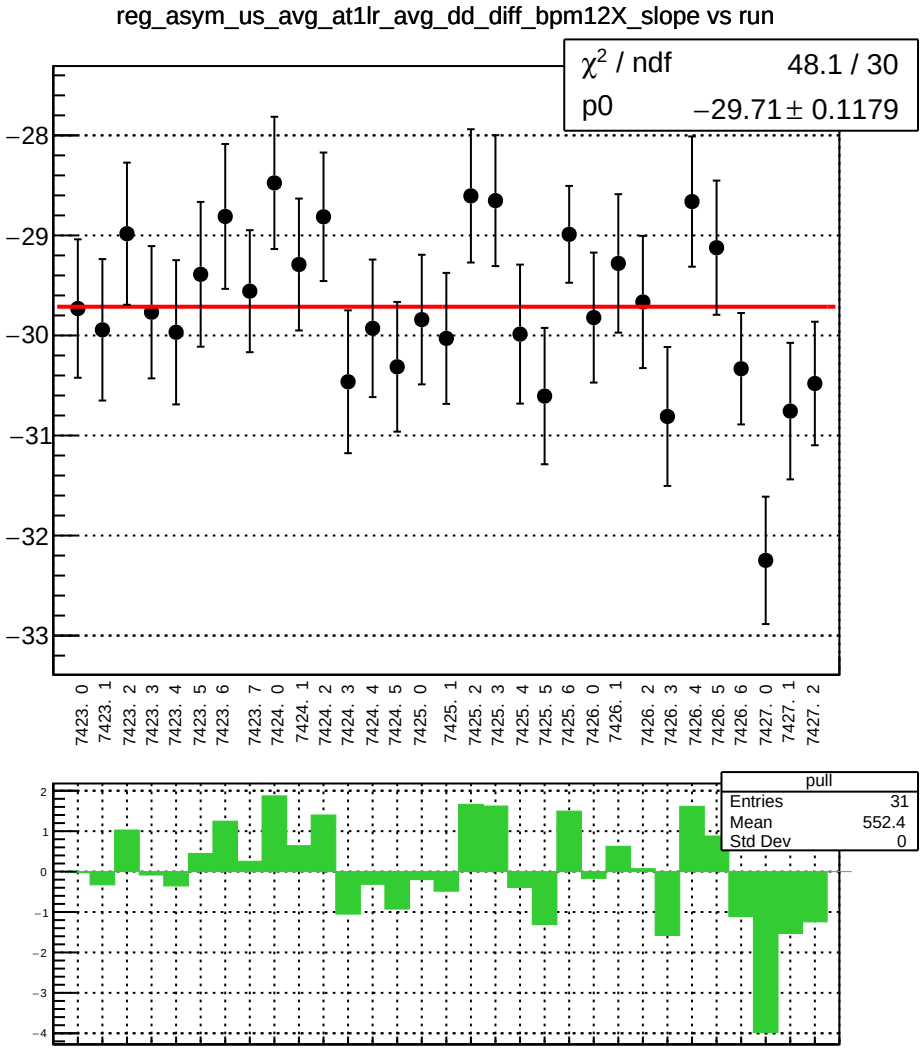

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 14.56 / 30
p0 −34.76 ± 2.695
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −454
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.001948
Std Dev 0.6853
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

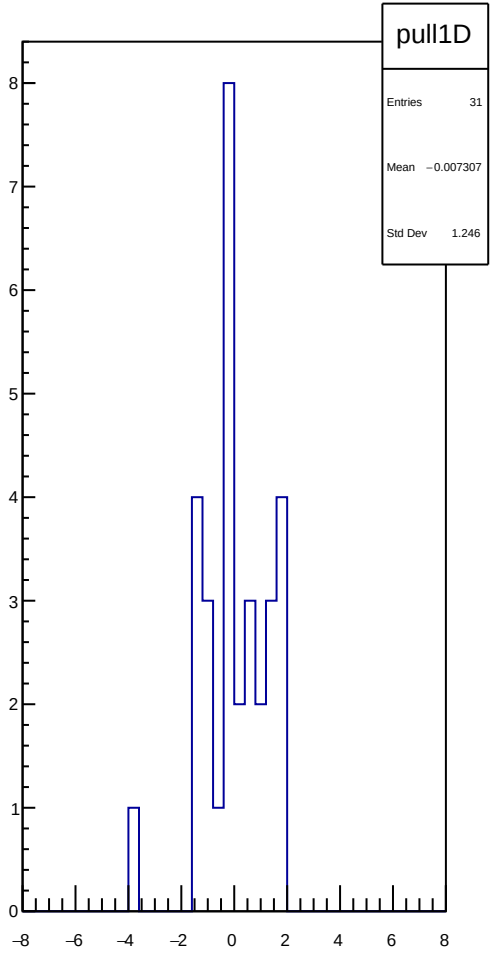

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.58 / 30
p0 −12.23 ± 2.575
pull
Entries 31
Mean −175
Std Dev 0
pull1D
Entries 31
Mean 0.009613
Std Dev 0.9602

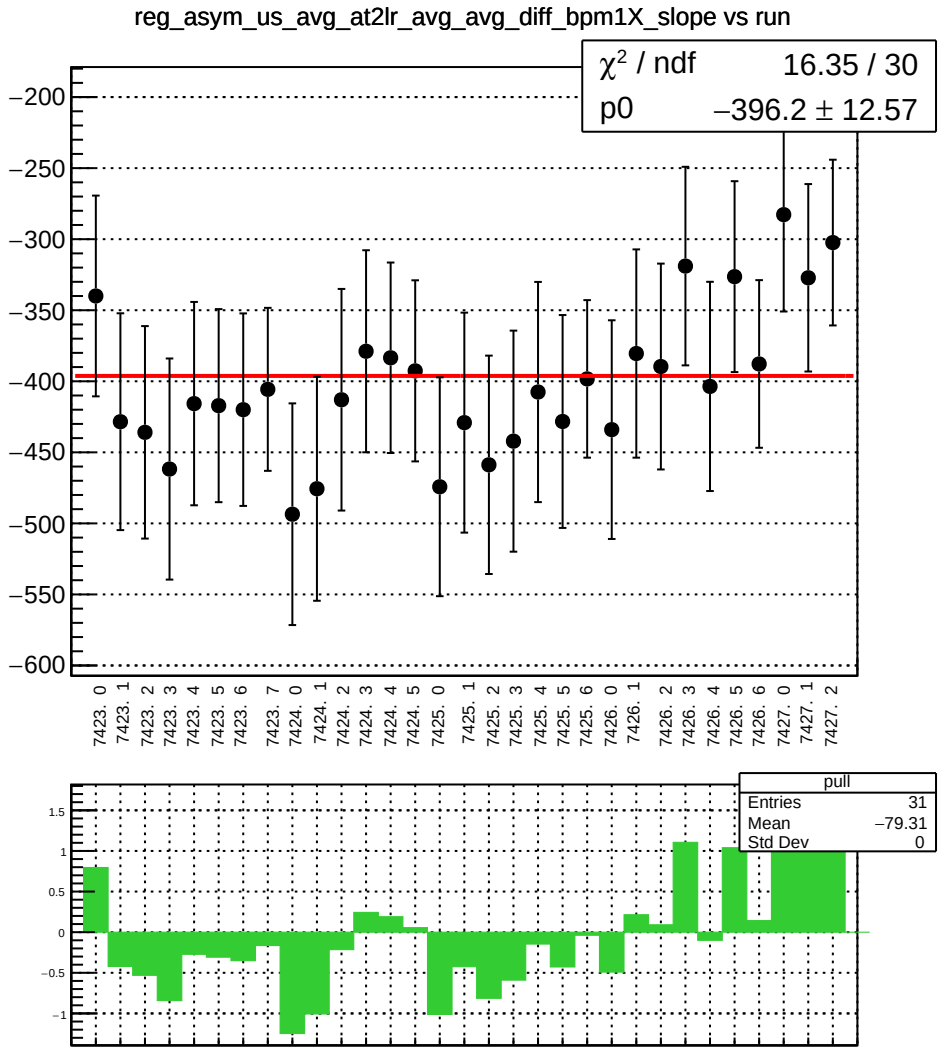

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.99 / 30
p0 49.98 ± 2.786
100
80
60
40
20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −216.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.005143
Std Dev 0.6953
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

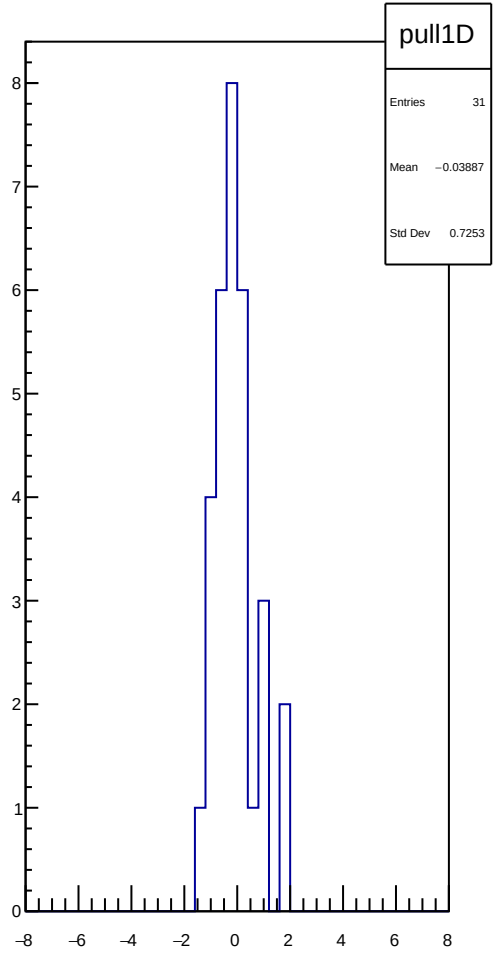

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.38 / 30
p0 46.46 ± 2.738
80
60
40
20
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −110.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

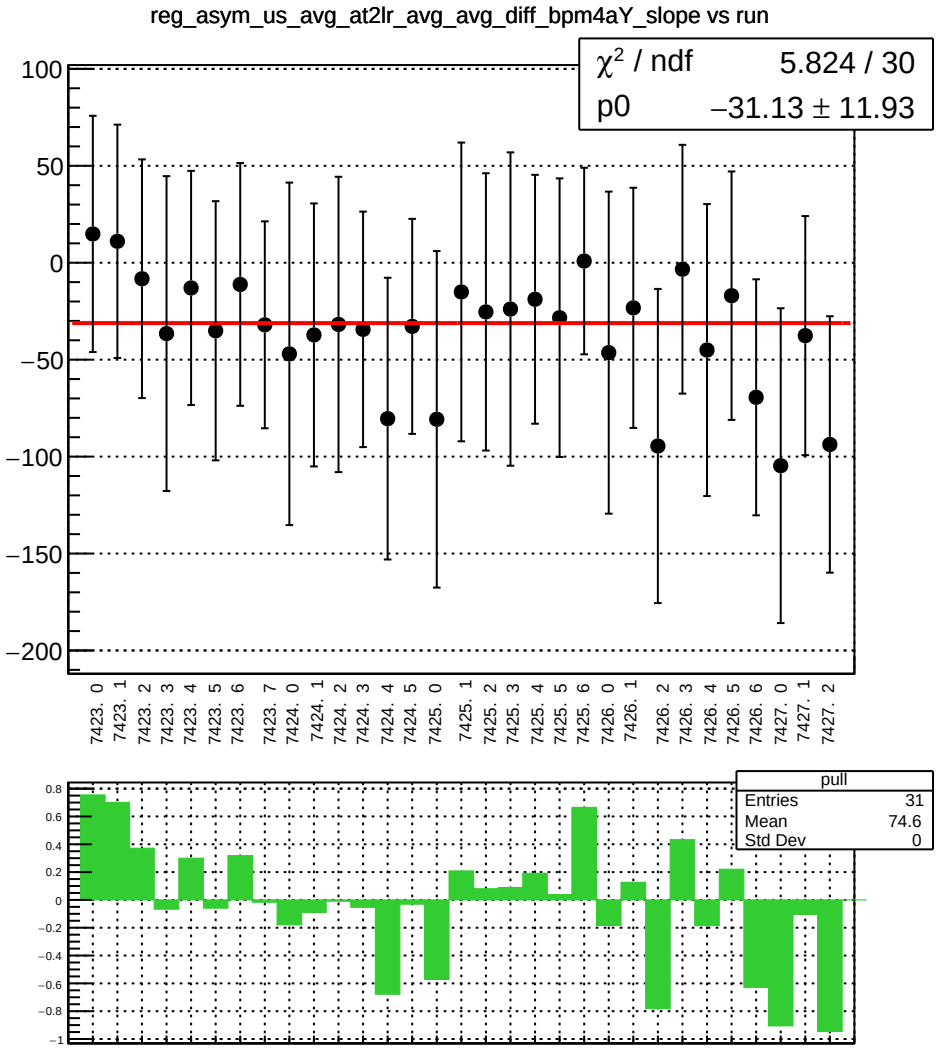

pull1D
Entries 31
Mean −0.01353
Std Dev 0.9397
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

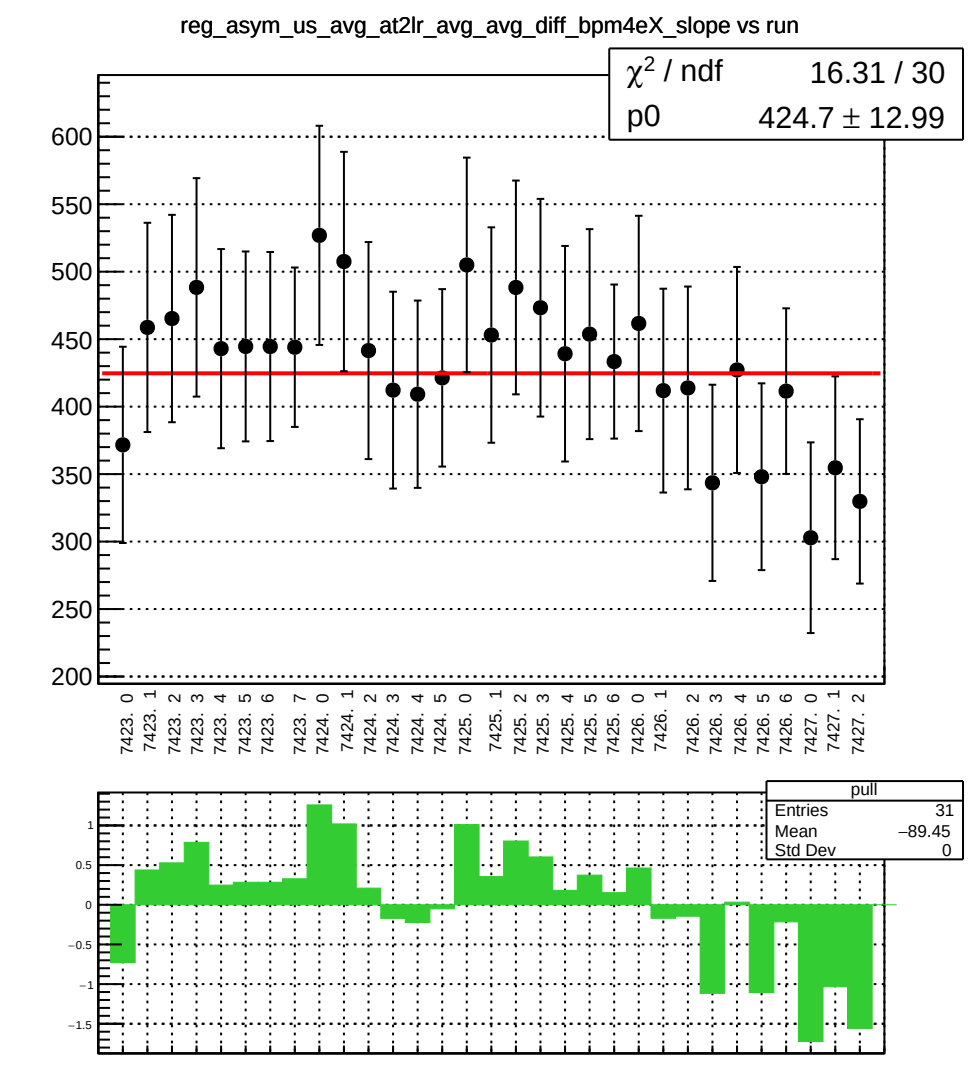

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 48.1 / 30
p0 −29.71 ± 0.1179
−28
−29
−30
−31
−32
−33
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 552.4
Std Dev 0
2
1
0
−1
−2
−3
−4

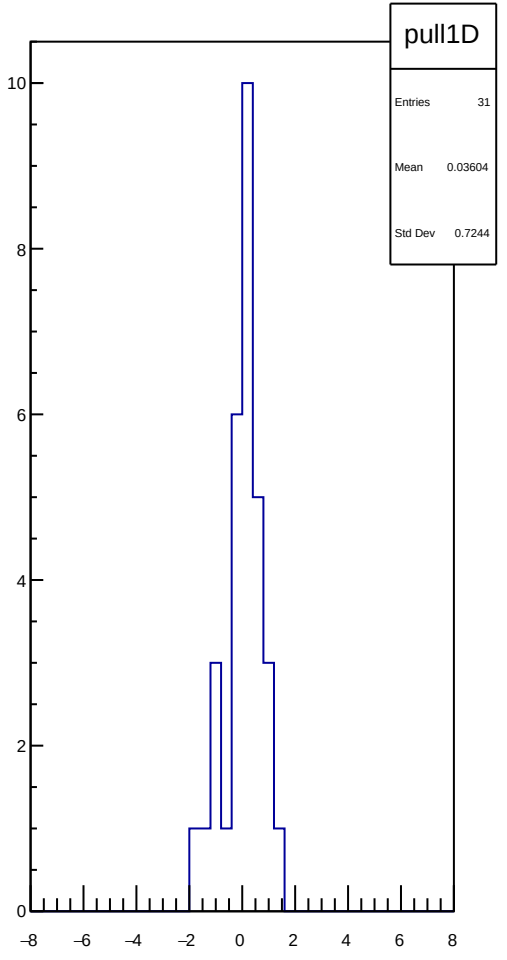

pull1D
Entries 31
Mean −0.007307
Std Dev 1.246
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

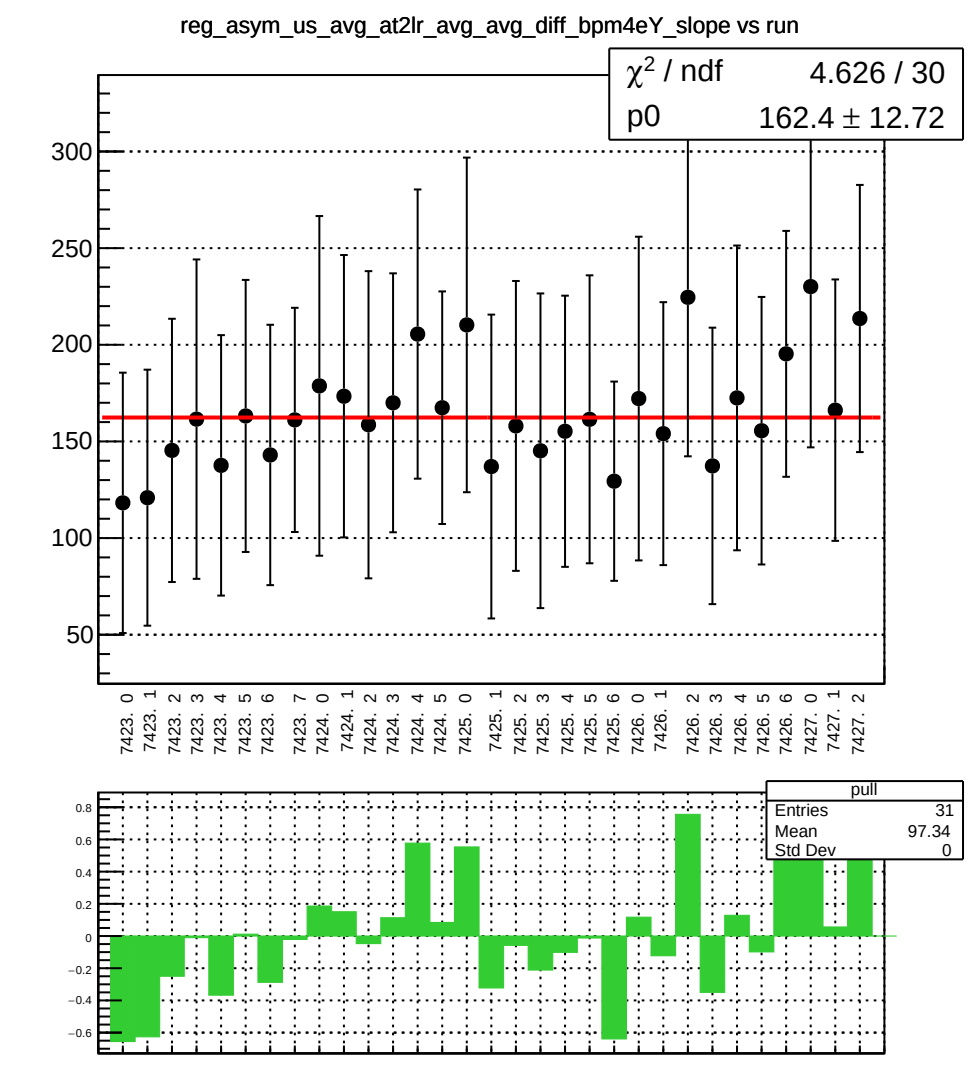

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 16.35 / 30
p0 −396.2 ± 12.57
pull
Entries 31
Mean −79.31
Std Dev 0

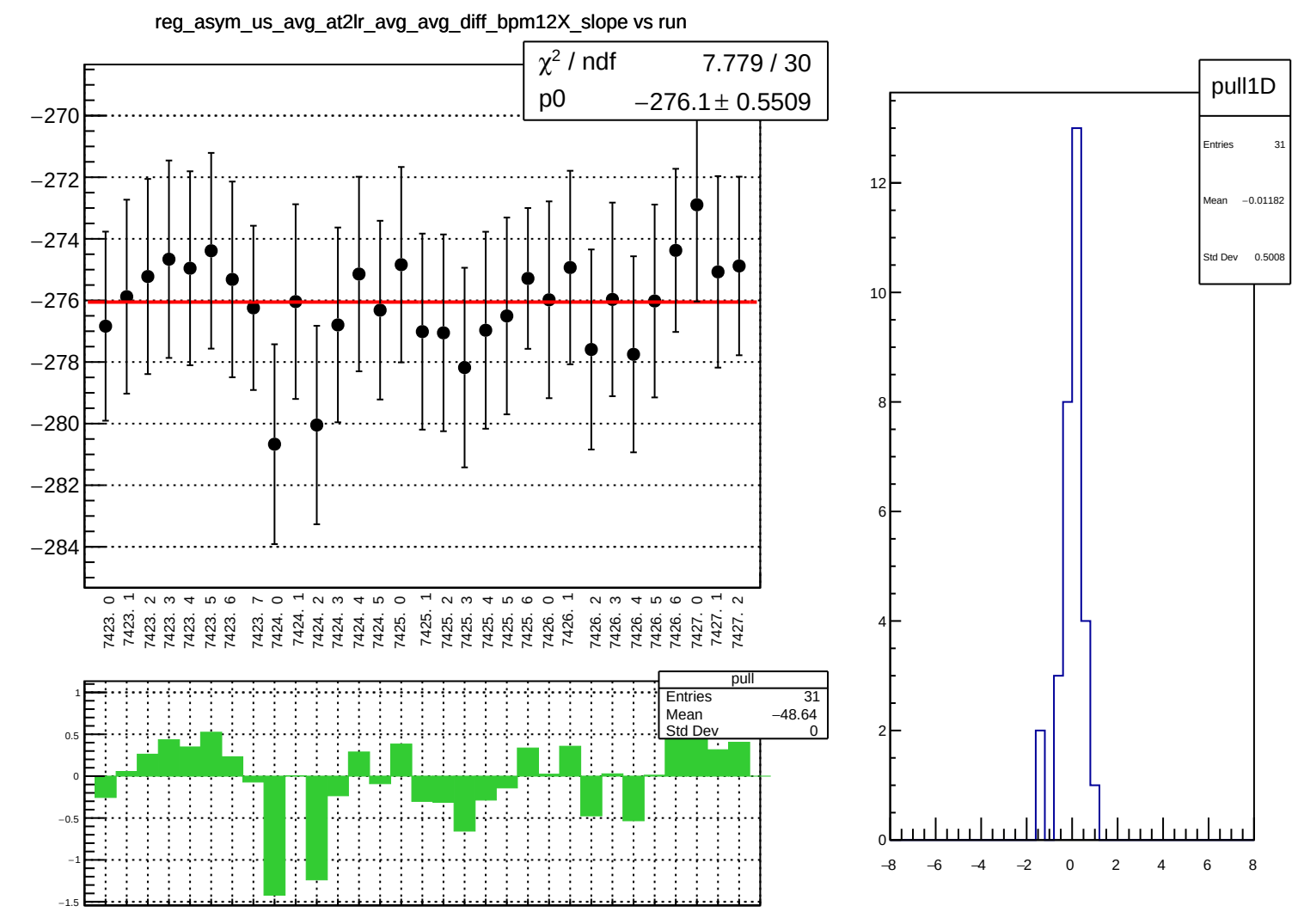

pull1D
Entries 31
Mean −0.03887
Std Dev 0.7253

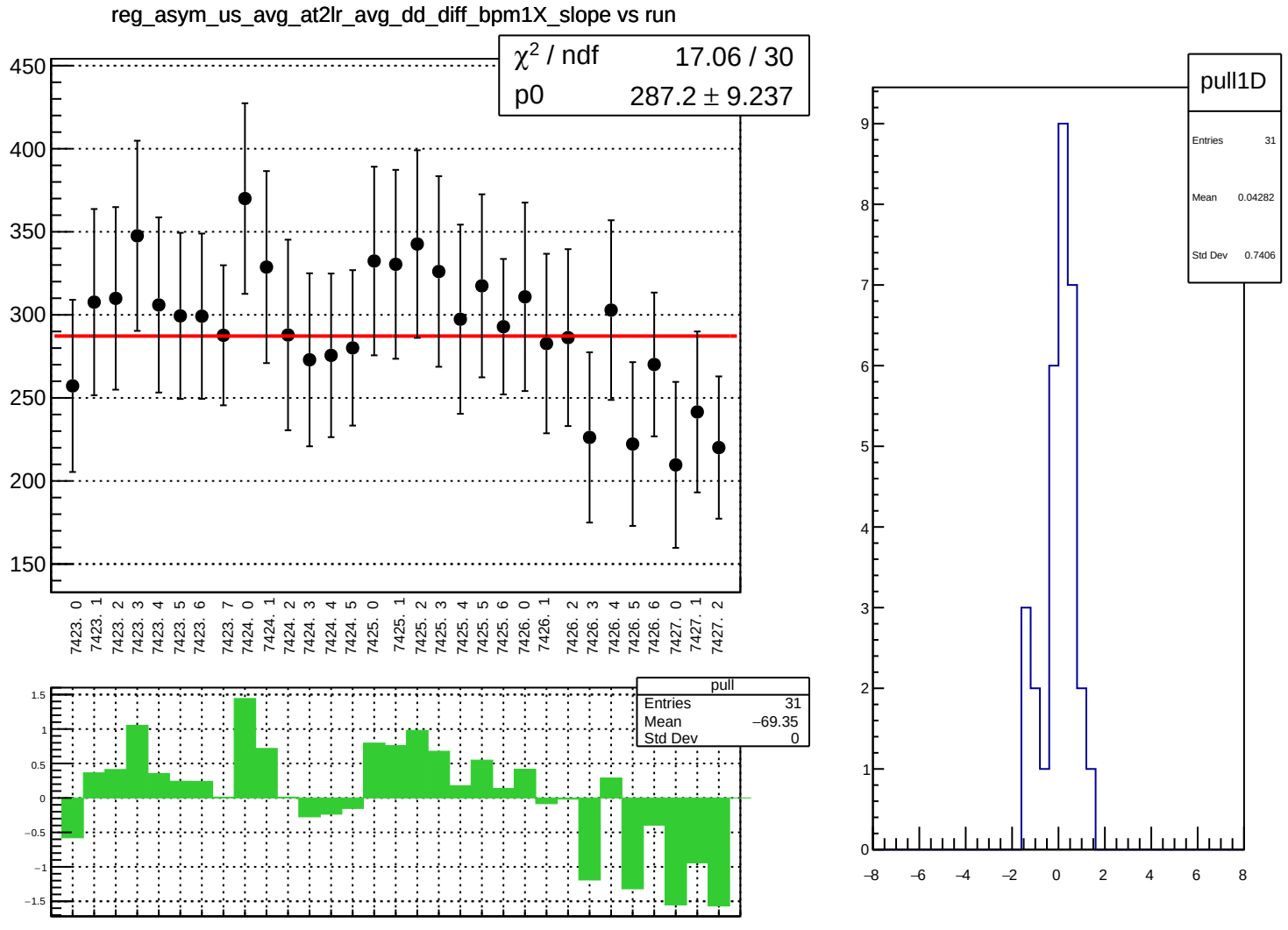

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.824 / 30
p0 −31.13 ± 11.93
100
50
0
−50
−100
−150
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 74.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 31
Mean −0.03196
Std Dev 0.4323
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

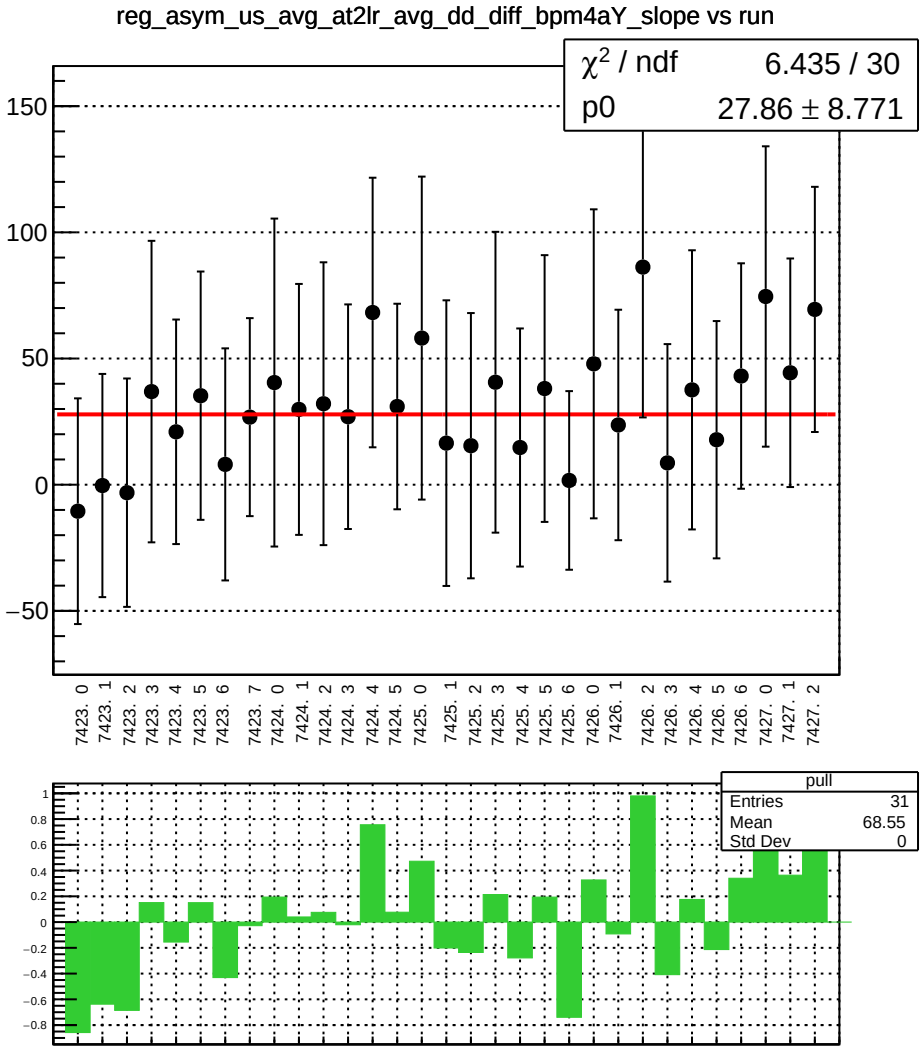

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.31 / 30
p0 424.7 ± 12.99
600
550
500
450
400
350
300
250
200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −89.45
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

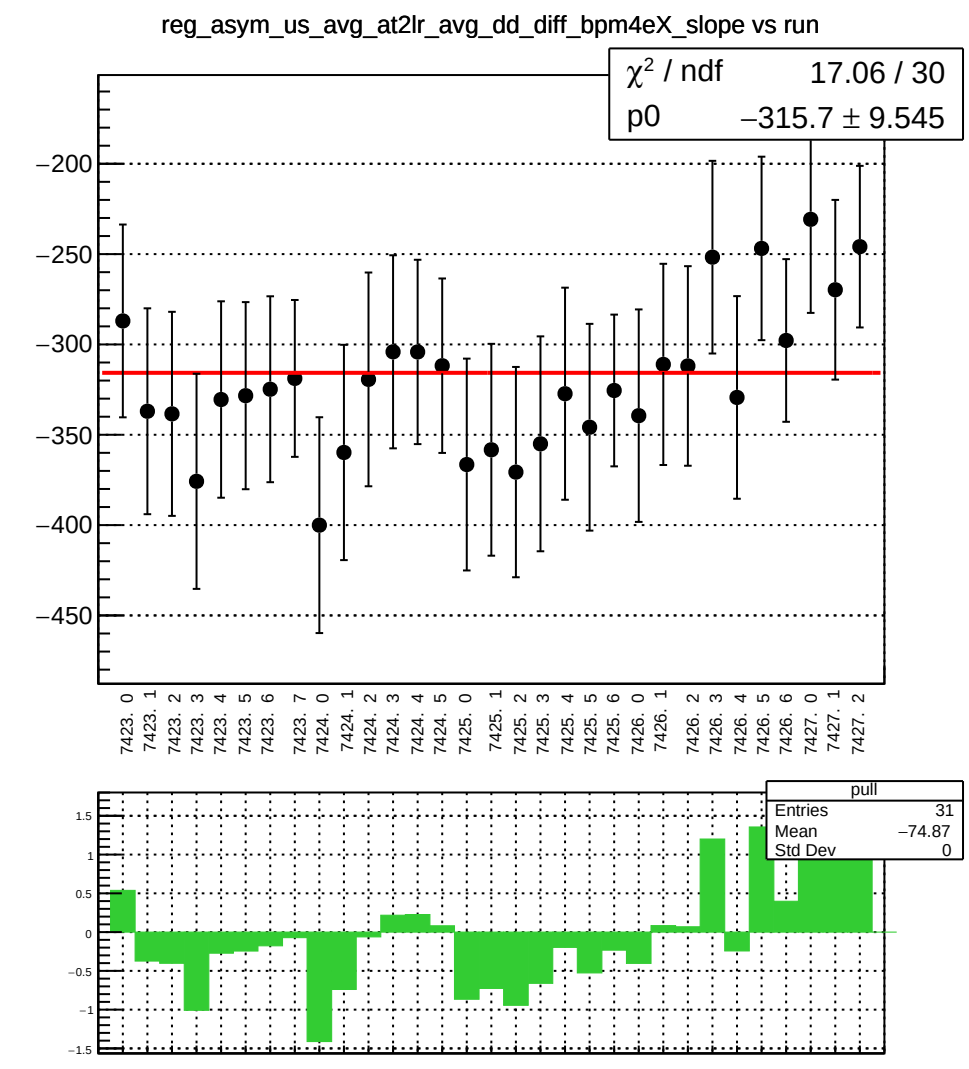

pull1D
Entries 31
Mean 0.03604
Std Dev 0.7244
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

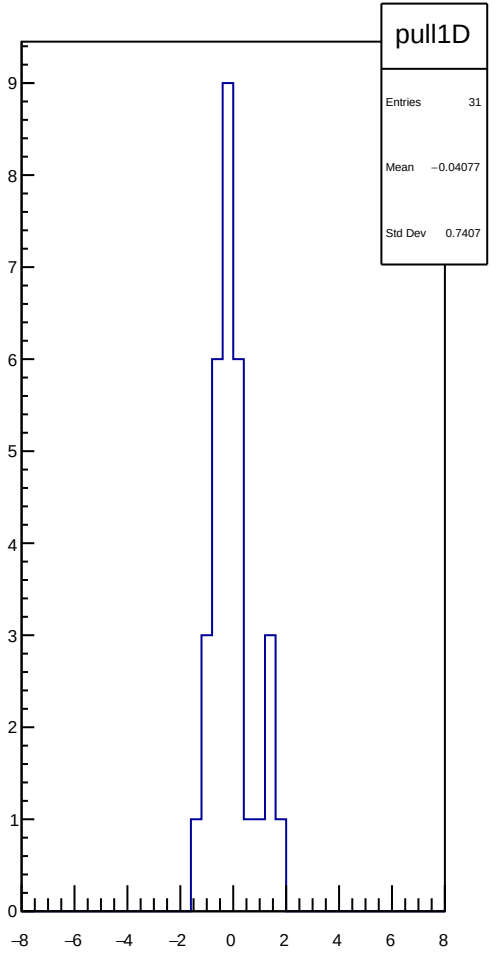

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.626 / 30
p0 162.4 ± 12.72
300
250
200
150
100
50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 97.34
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean 0.02026
Std Dev 0.3858
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

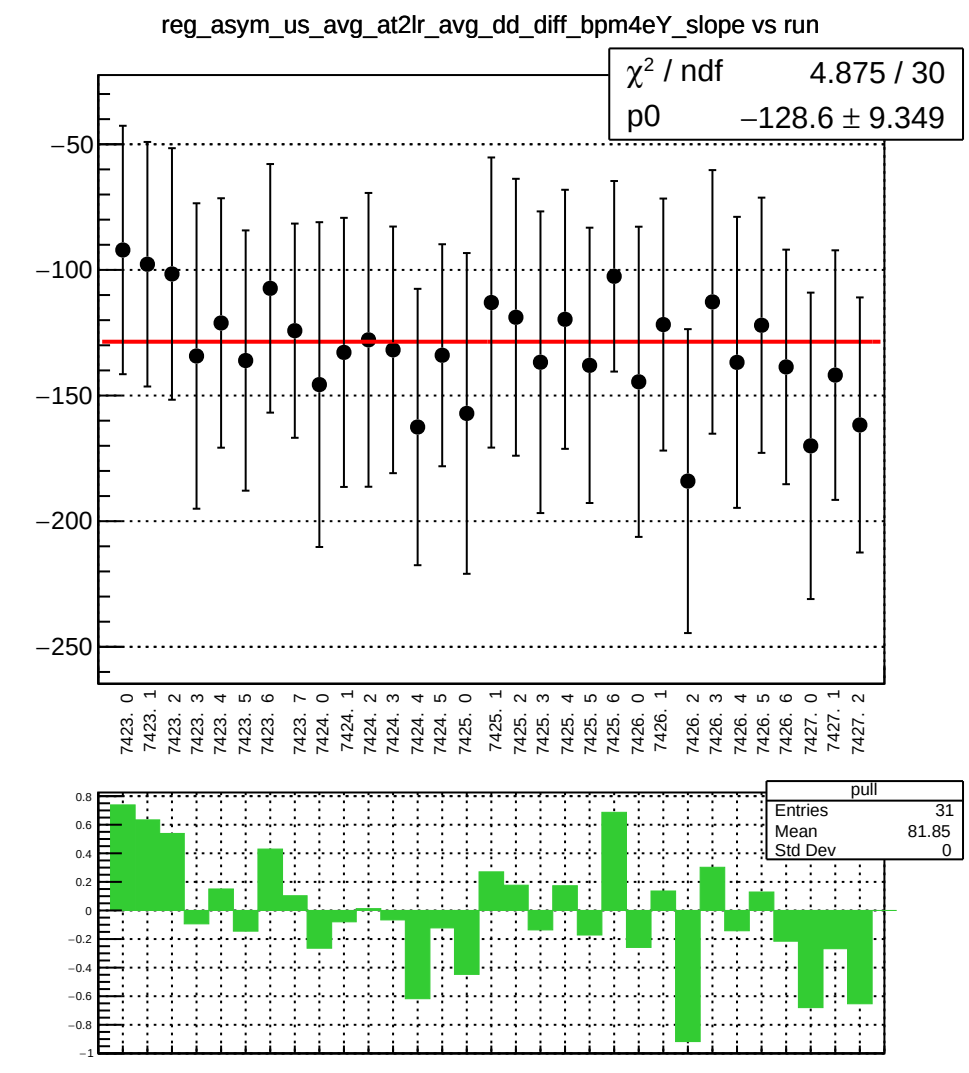

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 7.779 / 30
p0 −276.1 ± 0.5509
−270
−272
−274
−276
−278
−280
−282
−284
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −48.64
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01182
Std Dev 0.5008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

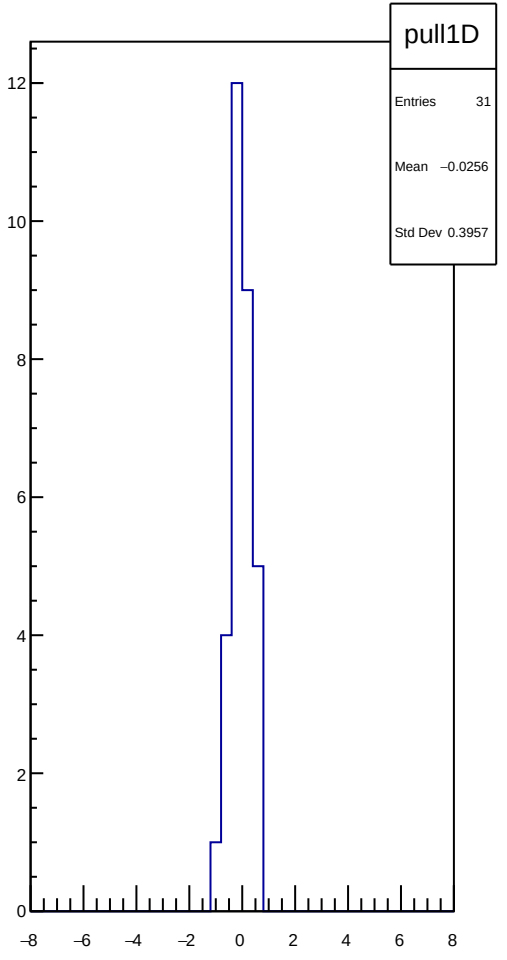

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 17.06 / 30
p0 287.2 ± 9.237
pull
Entries 31
Mean −69.35
Std Dev 0
pull1D
Entries 31
Mean 0.04282
Std Dev 0.7406

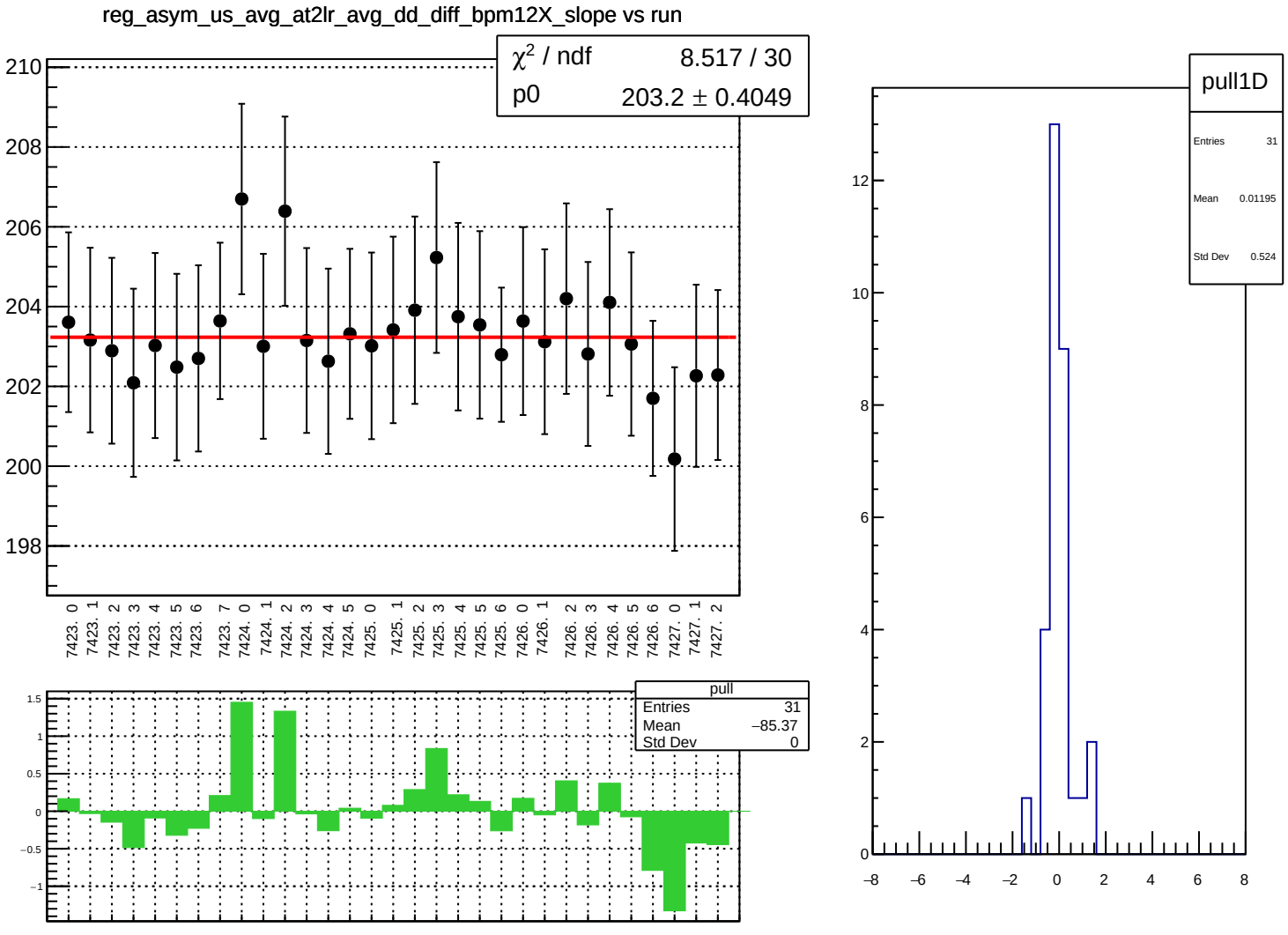

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.435 / 30
p0 27.86 ± 8.771
150
100
50
0
−50
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 68.55
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean 0.03768
Std Dev 0.454
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

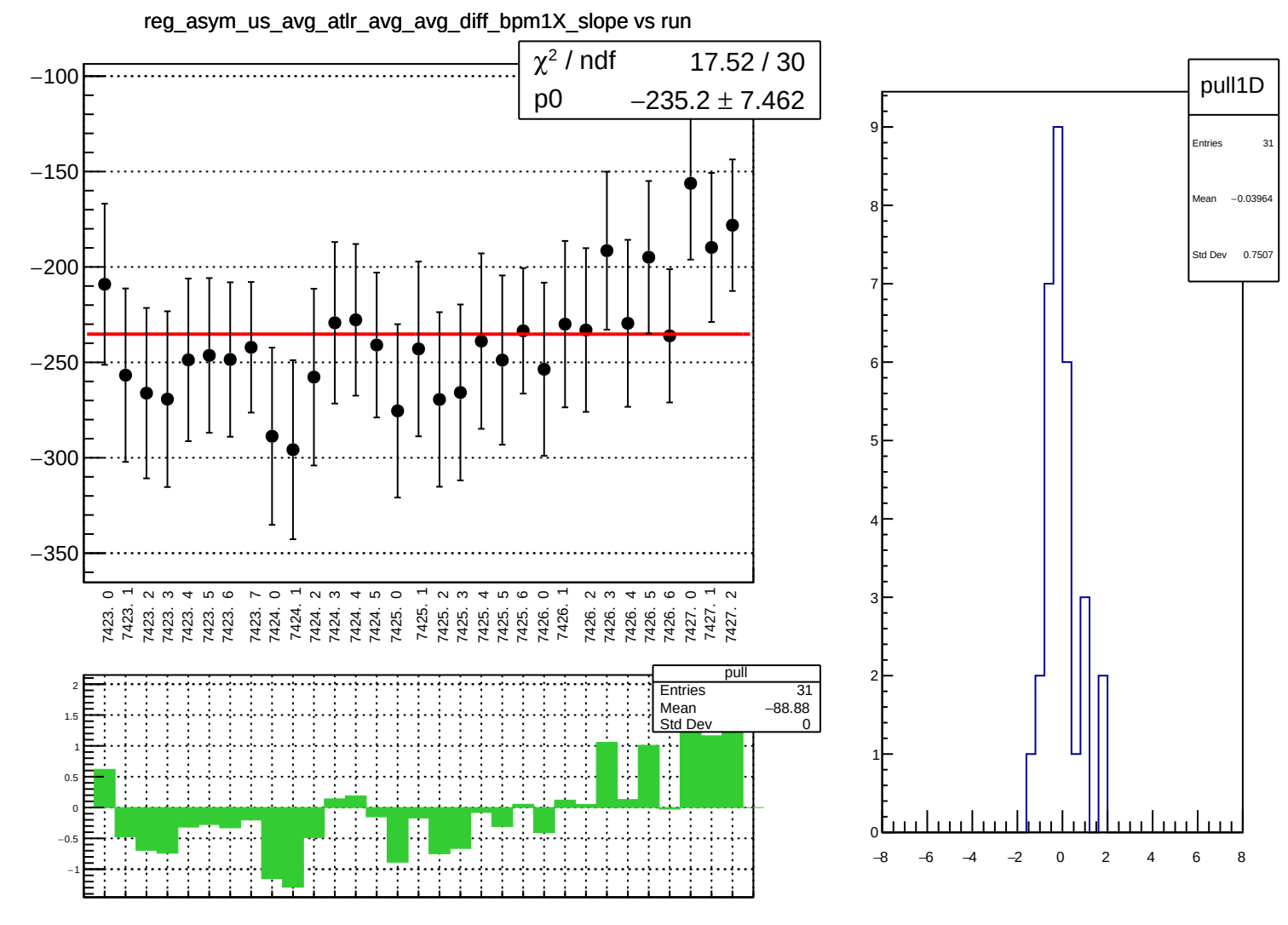

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.06 / 30
p0 −315.7 ± 9.545
−200
−250
−300
−350
−400
−450
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −74.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

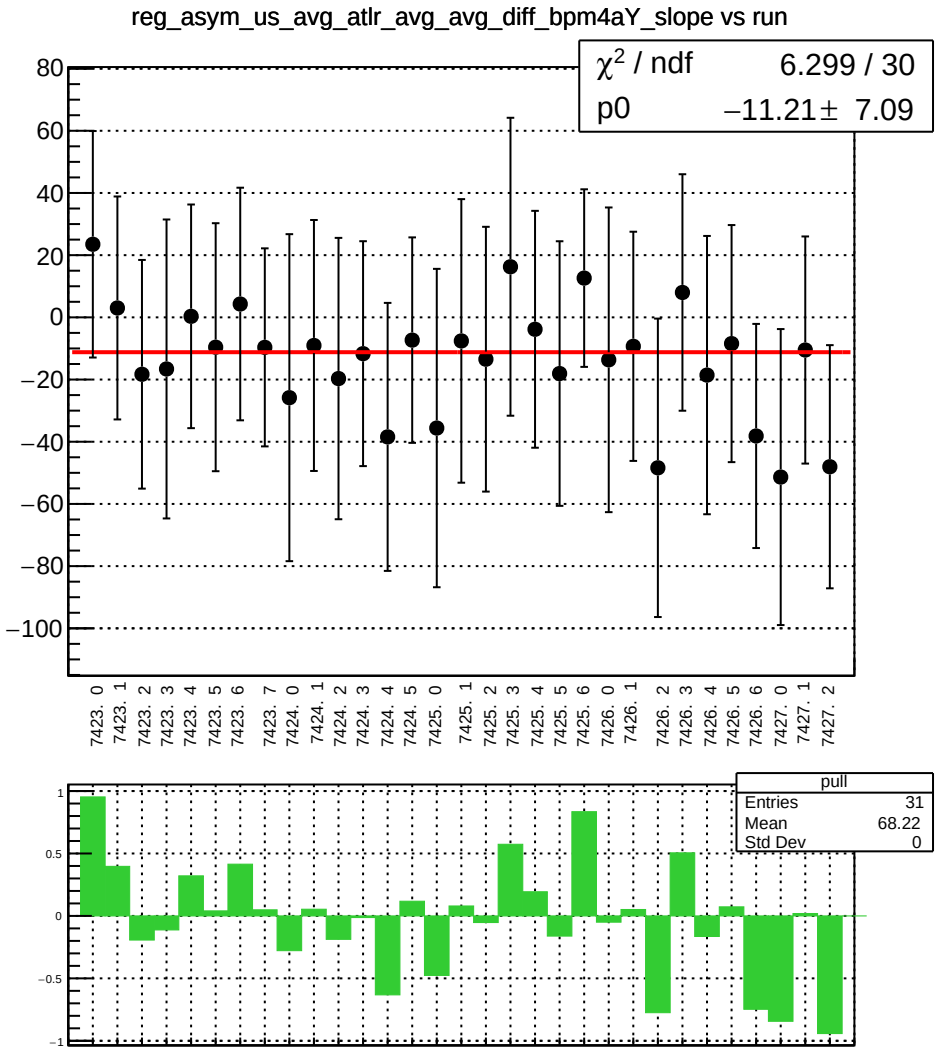

pull1D
Entries 31
Mean −0.04077
Std Dev 0.7407
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

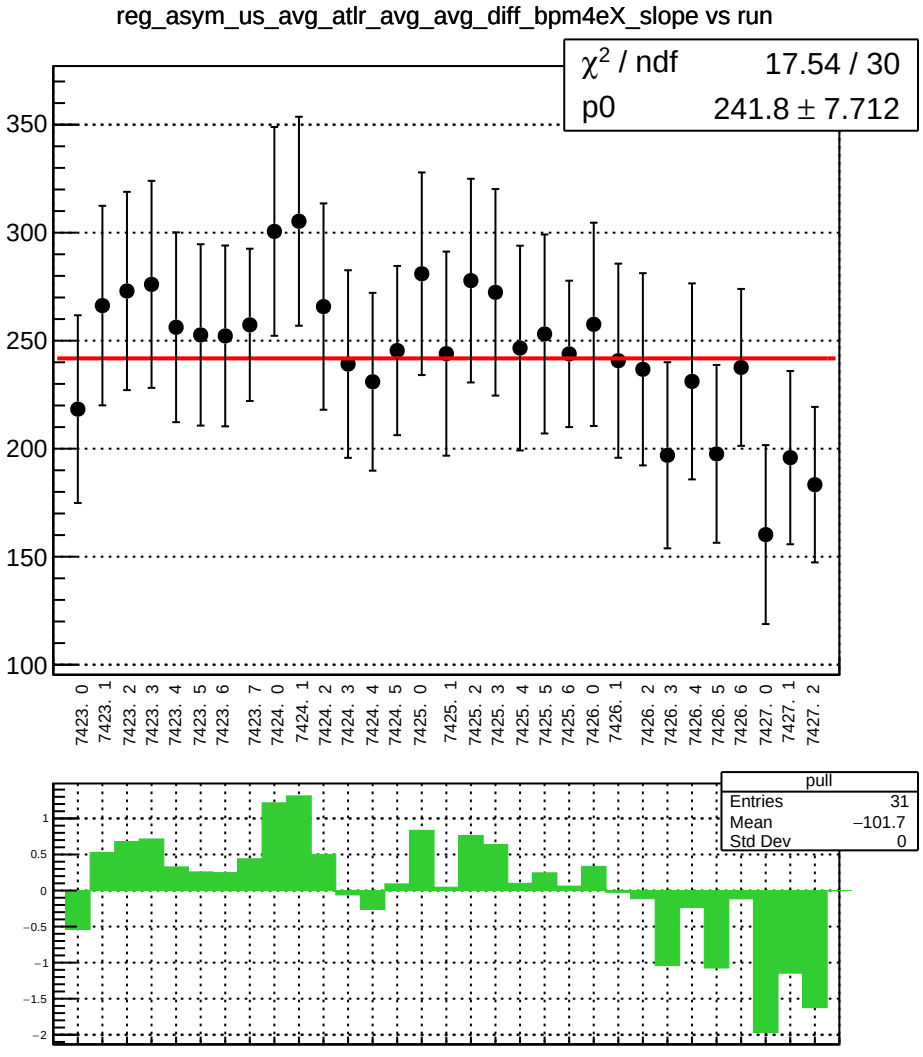

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.875 / 30
p0 −128.6 ± 9.349
−50
−100
−150
−200
−250
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 81.85
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

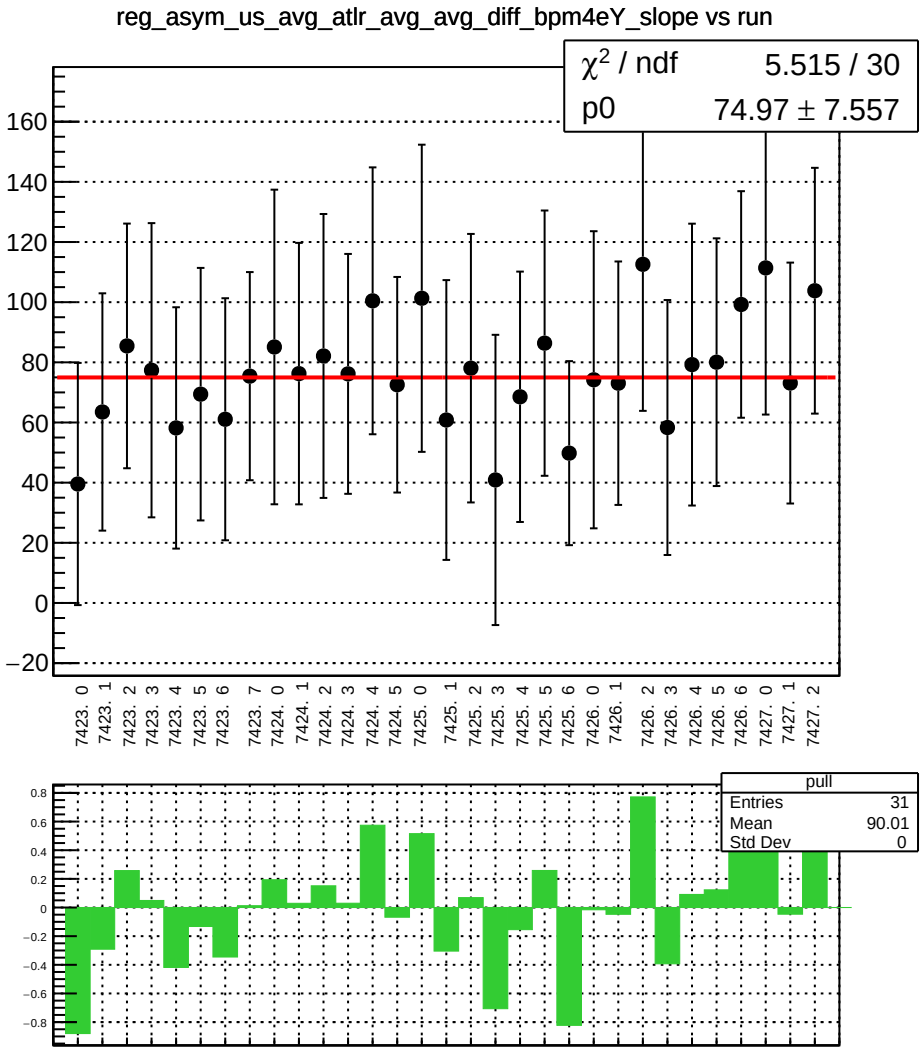

pull1D
Entries 31
Mean −0.0256
Std Dev 0.3957
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

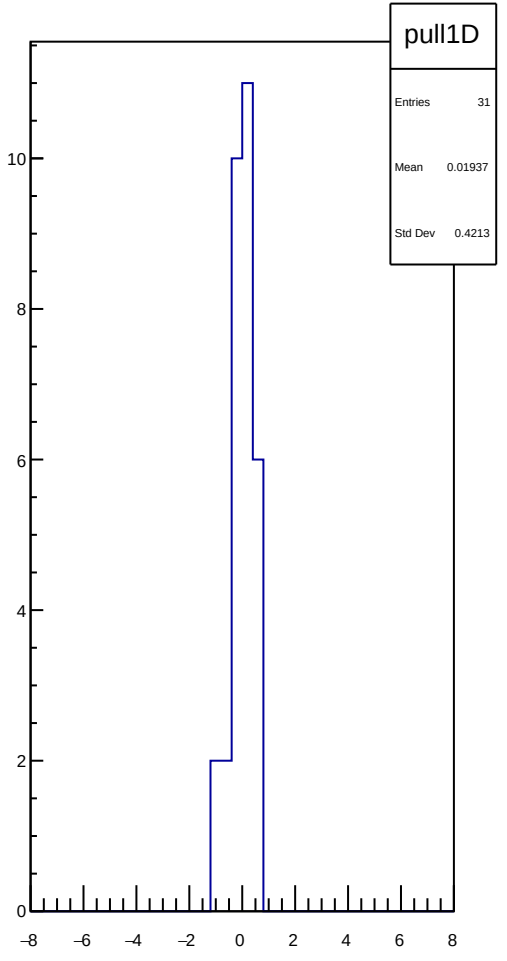

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 8.517 / 30
p0 203.2 ± 0.4049
210
208
206
204
202
200
198
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −85.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.01195
Std Dev 0.524
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

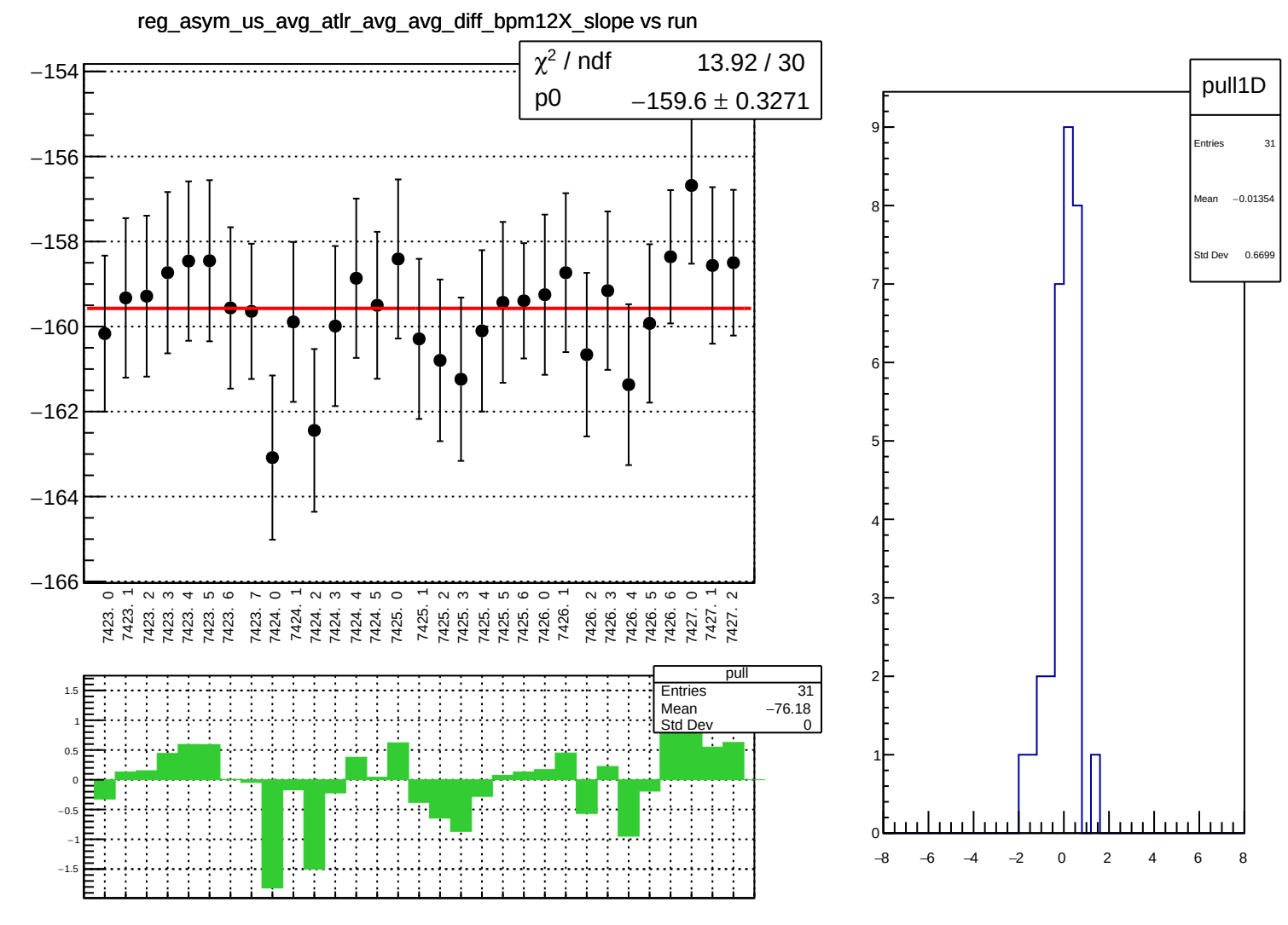

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 17.52 / 30
p0 −235.2 ± 7.462
−100
−150
−200
−250
−300
−350
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −88.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.03964
Std Dev 0.7507
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

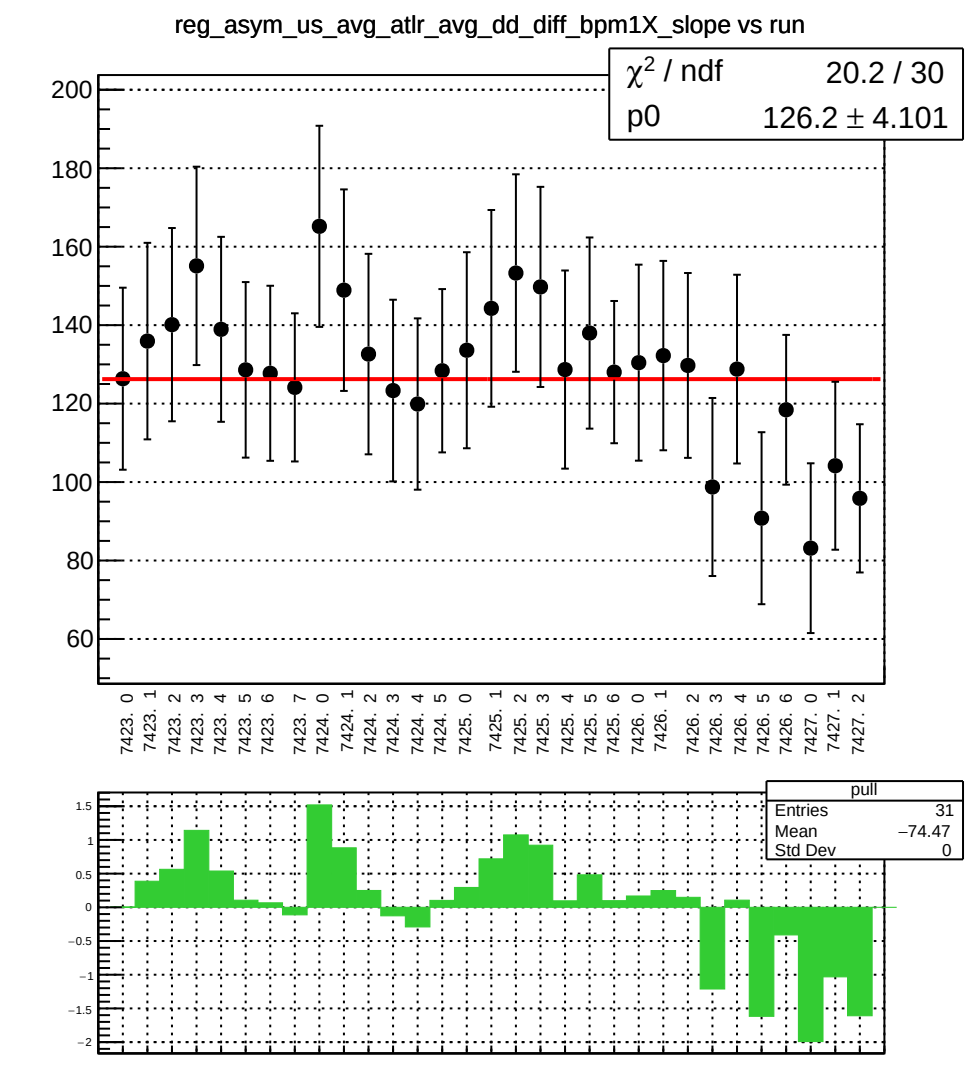

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.299 / 30
p0 −11.21± 7.09
pull
Entries 31
Mean 68.22
Std Dev 0
pull1D
Entries 31
Mean −0.0308
Std Dev 0.4497

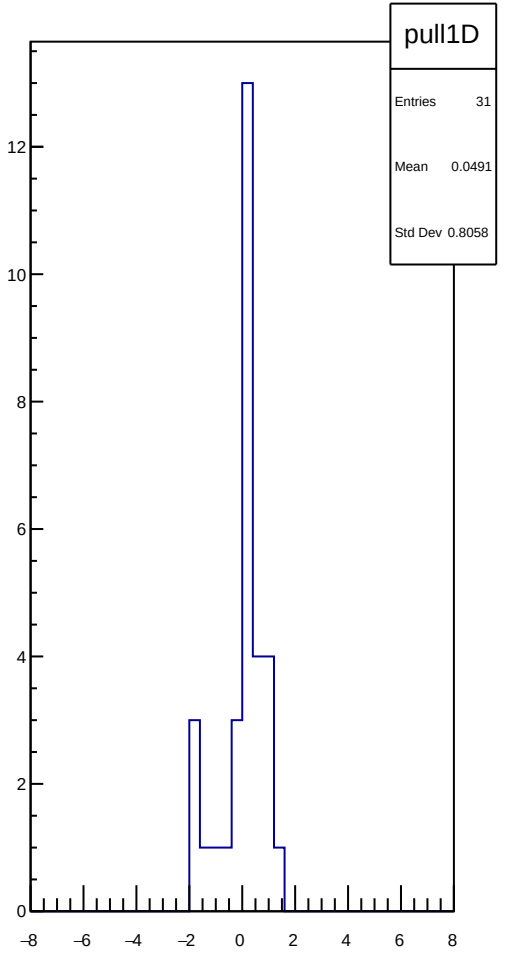

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.54 / 30
p0 241.8 ± 7.712
350
300
250
200
150
100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −101.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.03686
Std Dev 0.7513
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

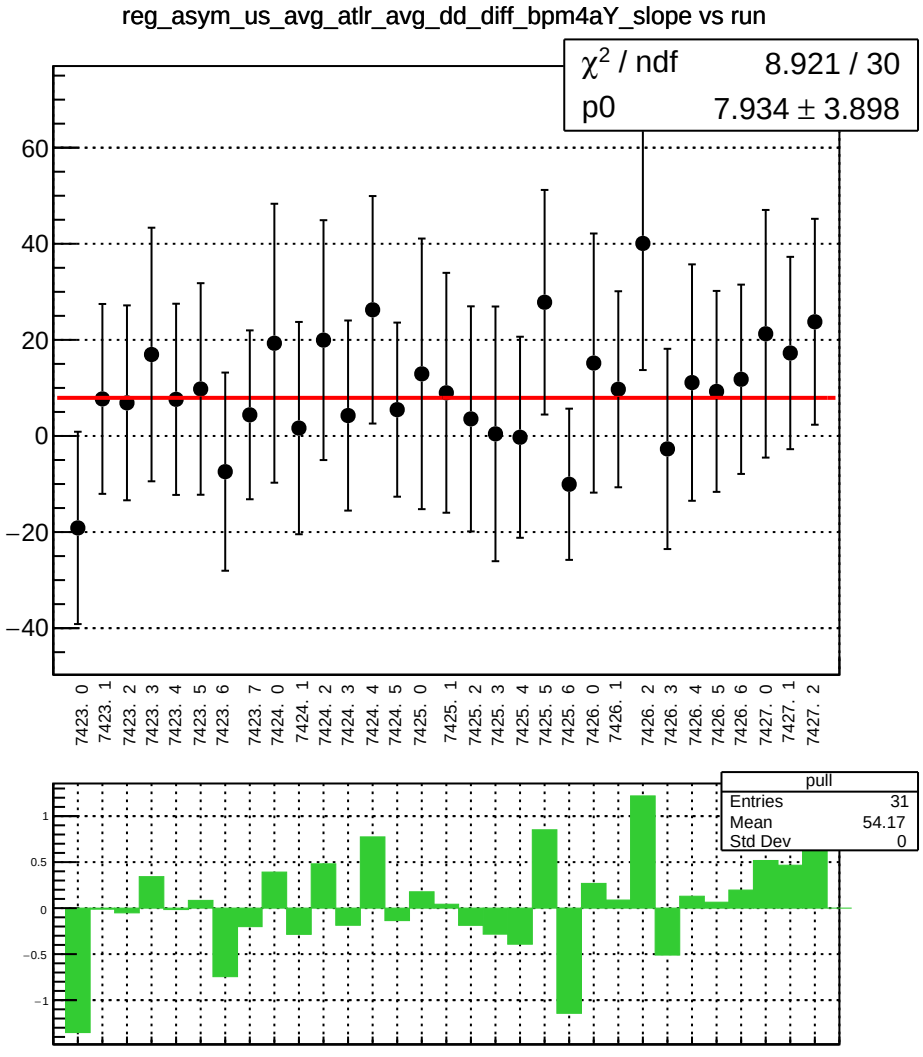

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.515 / 30
p0 74.97 ± 7.557
160
140
120
100
80
60
40
20
0
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 90.01
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

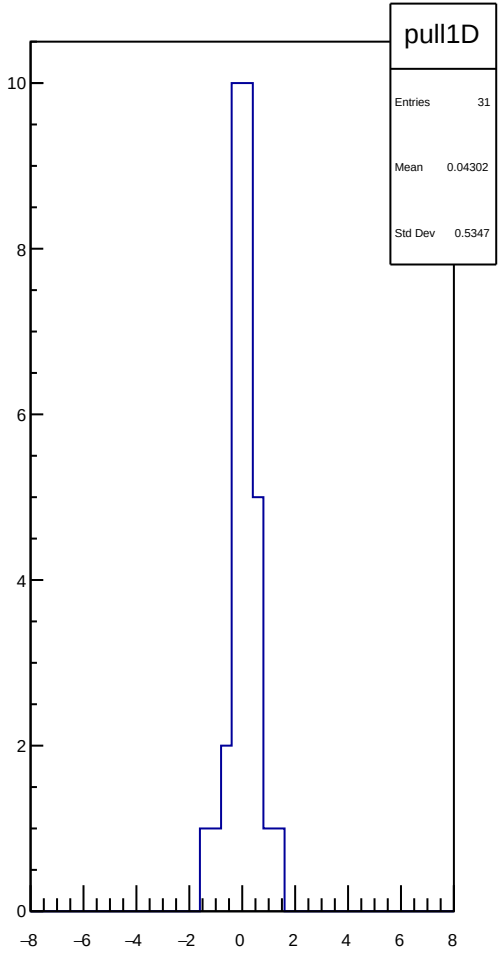

pull1D
Entries 31
Mean 0.01937
Std Dev 0.4213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

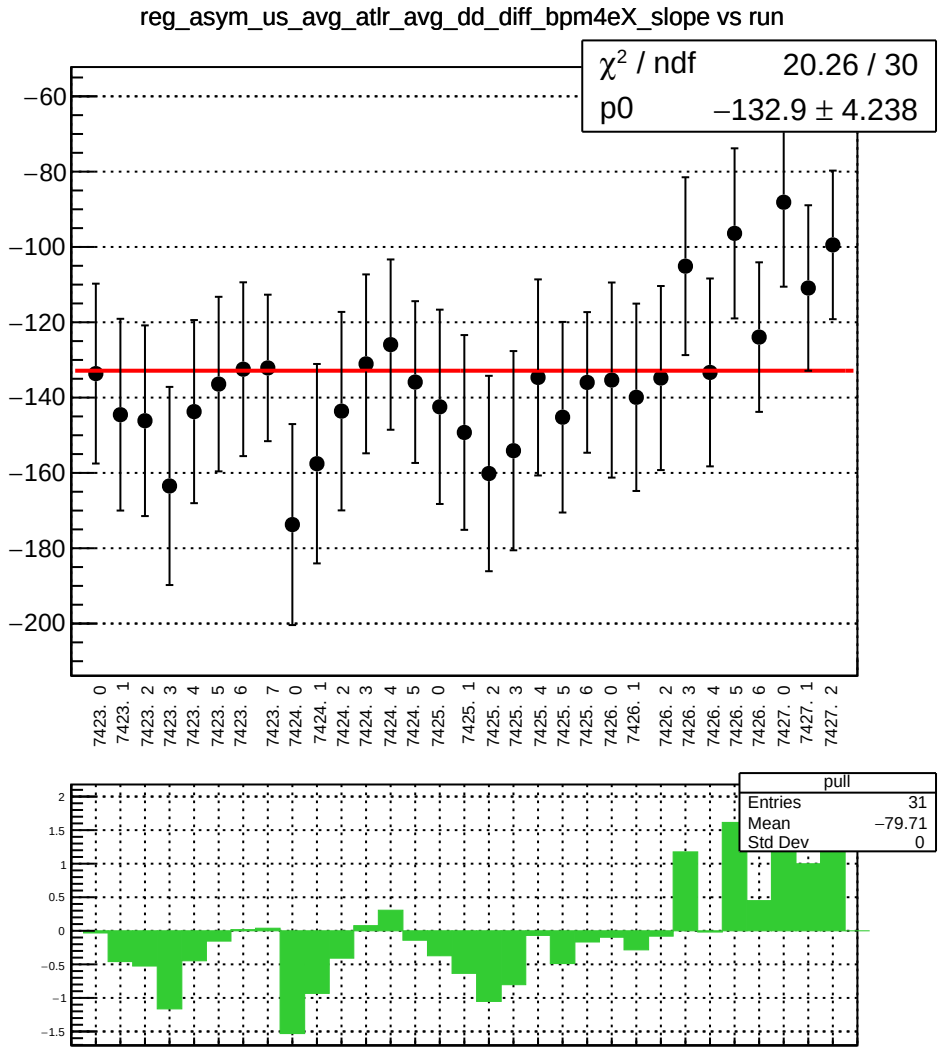

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 13.92 / 30
p0 −159.6 ± 0.3271
−154
−156
−158
−160
−162
−164
−166
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −76.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01354
Std Dev 0.6699
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

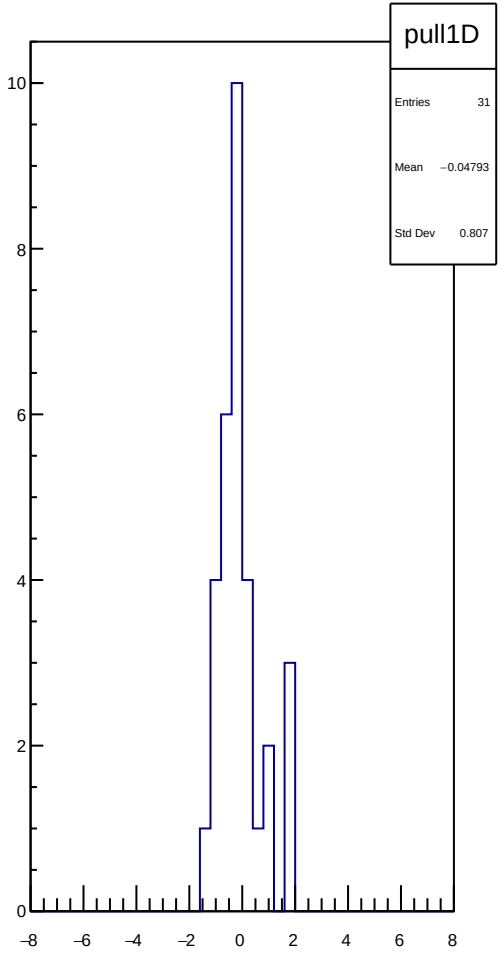

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 20.2 / 30
p0 126.2 ± 4.101
200
180
160
140
120
100
80
60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −74.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

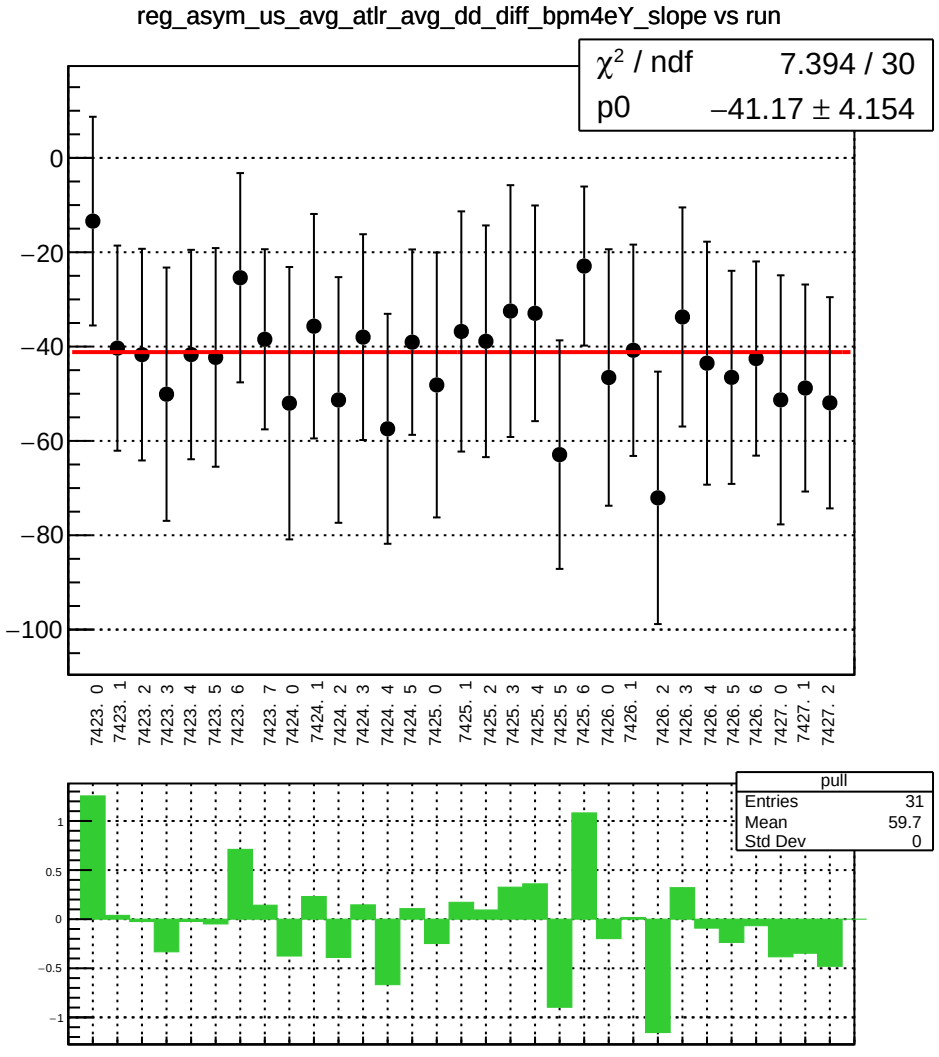

pull1D
Entries 31
Mean 0.0491
Std Dev 0.8058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

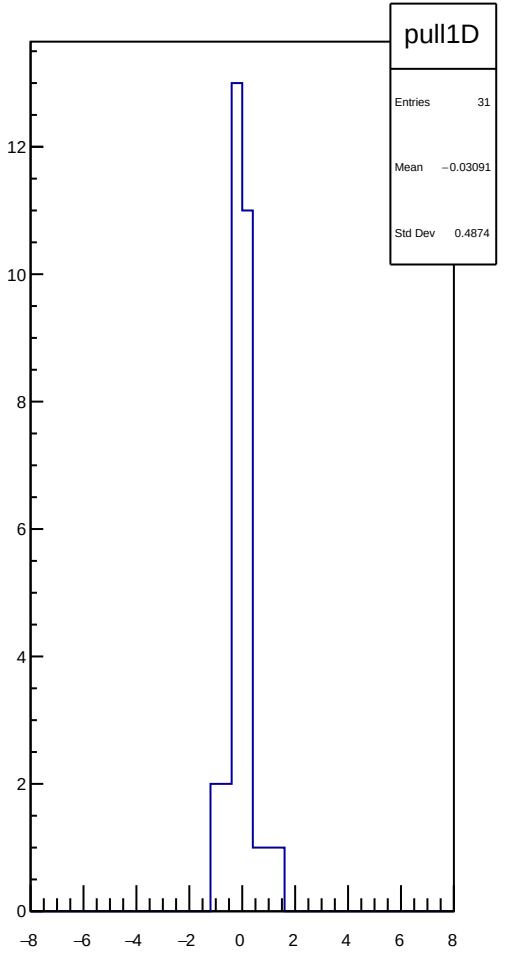

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.921 / 30
p0 7.934 ± 3.898
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 54.17
Std Dev 0
1
0.5
0
−0.5
−1

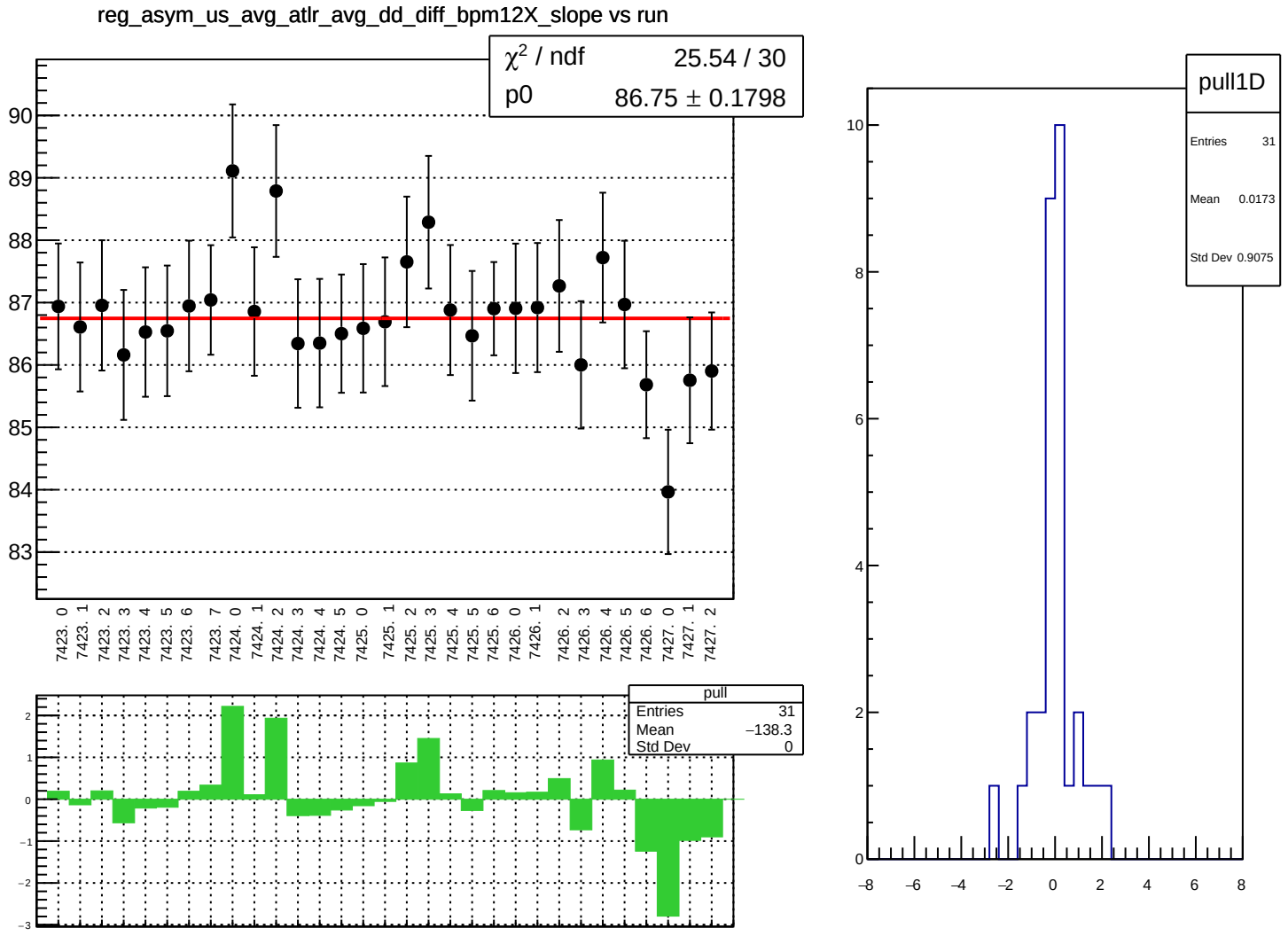

pull1D
Entries 31
Mean 0.04302
Std Dev 0.5347
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

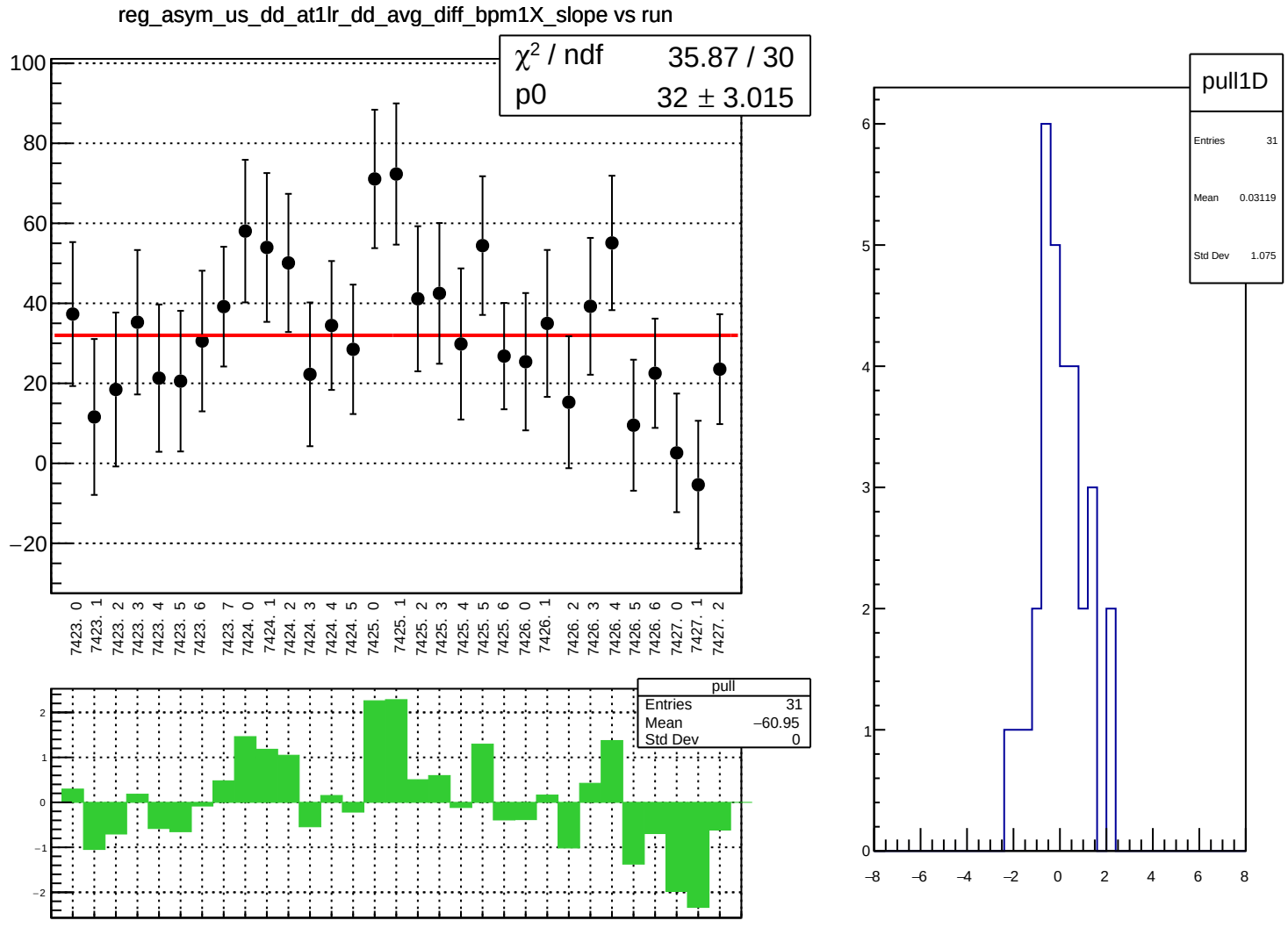

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.26 / 30
p0 −132.9 ± 4.238
−60
−80
−100
−120
−140
−160
−180
−200
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −79.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

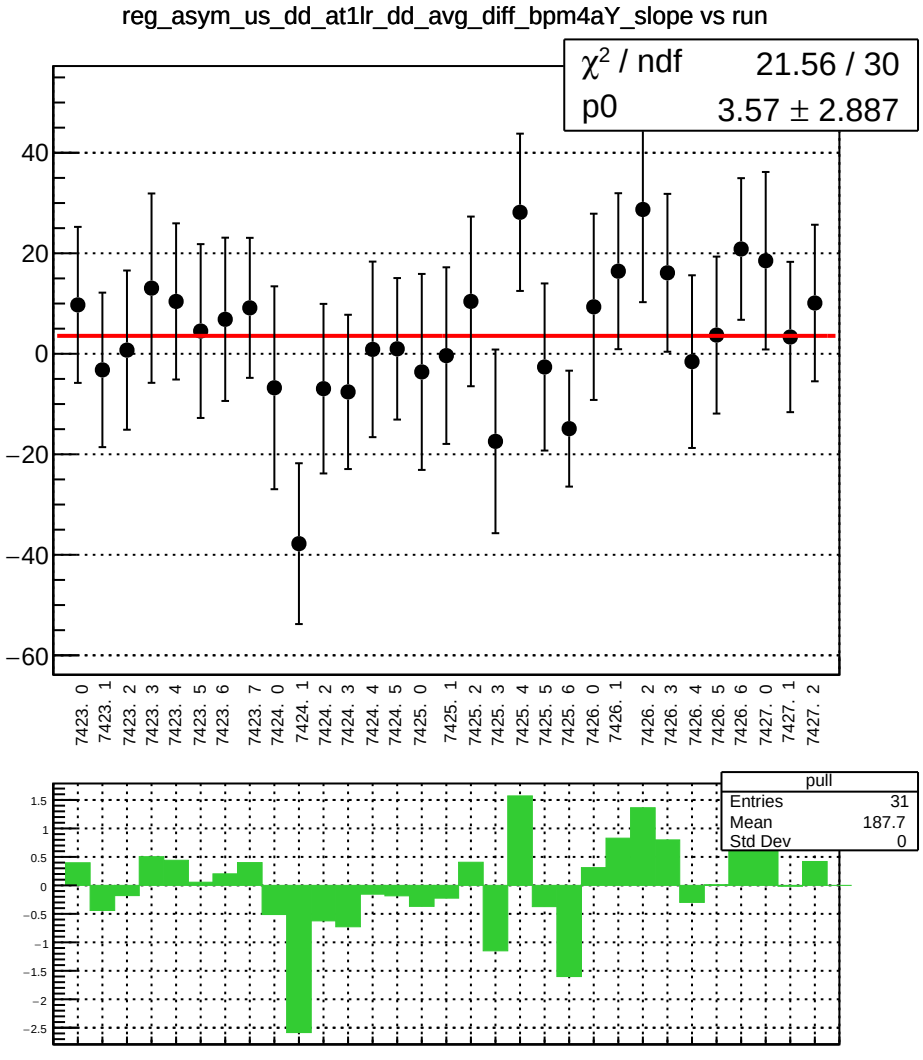

pull1D
Entries 31
Mean −0.04793
Std Dev 0.807
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

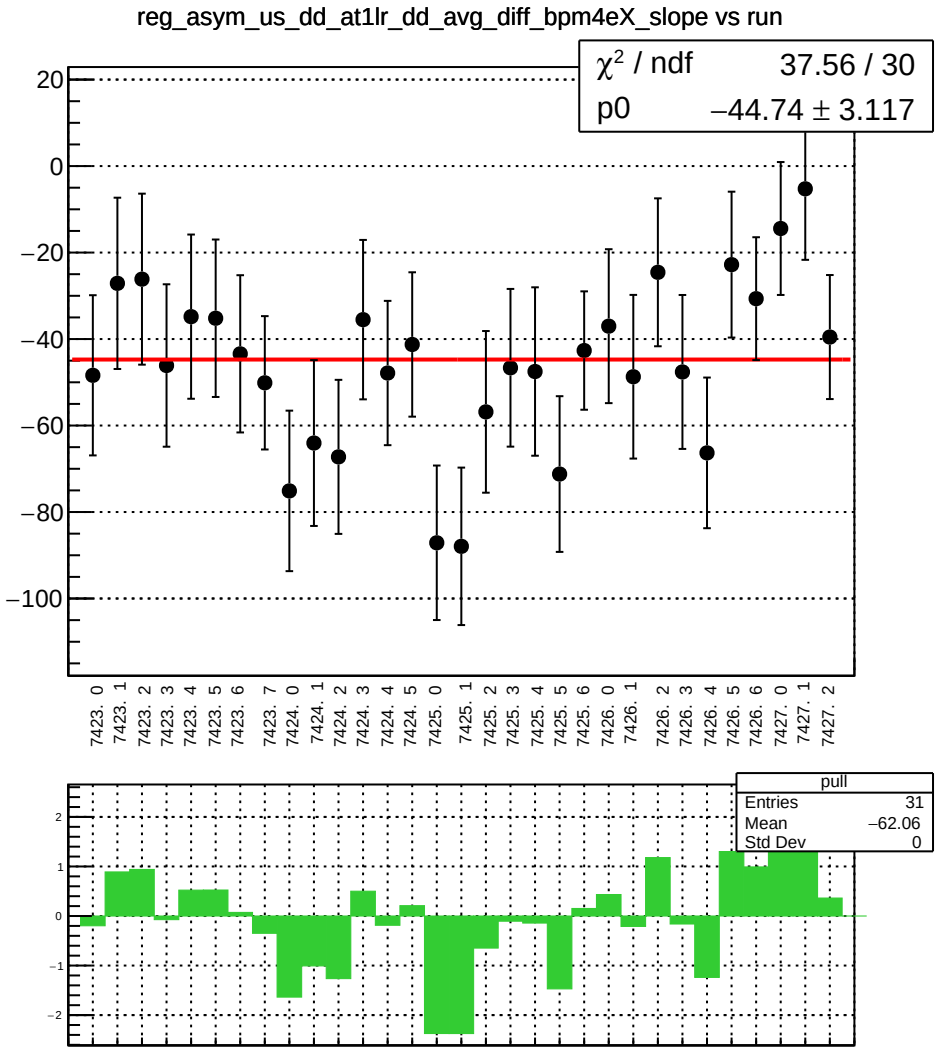

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.394 / 30
p0 −41.17 ± 4.154
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 59.7
Std Dev 0
1
0.5
0
−0.5
−1

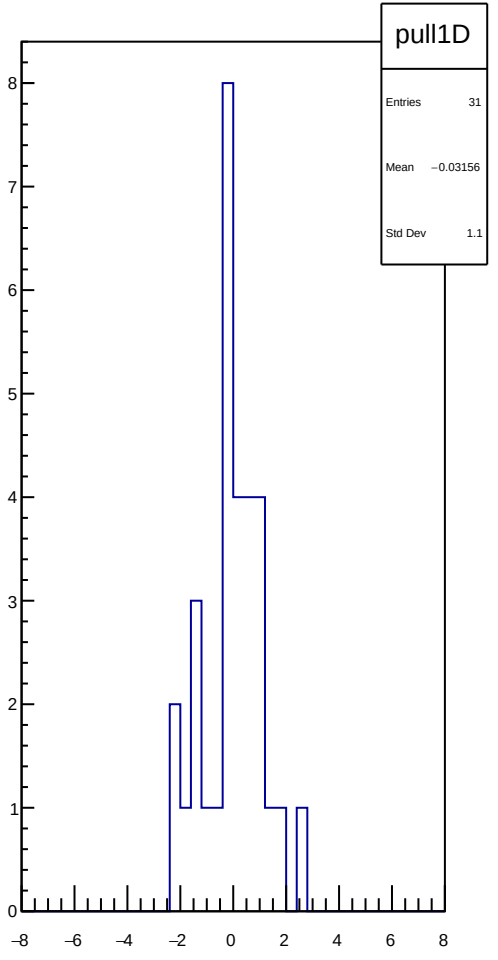

pull1D
Entries 31
Mean −0.03091
Std Dev 0.4874
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

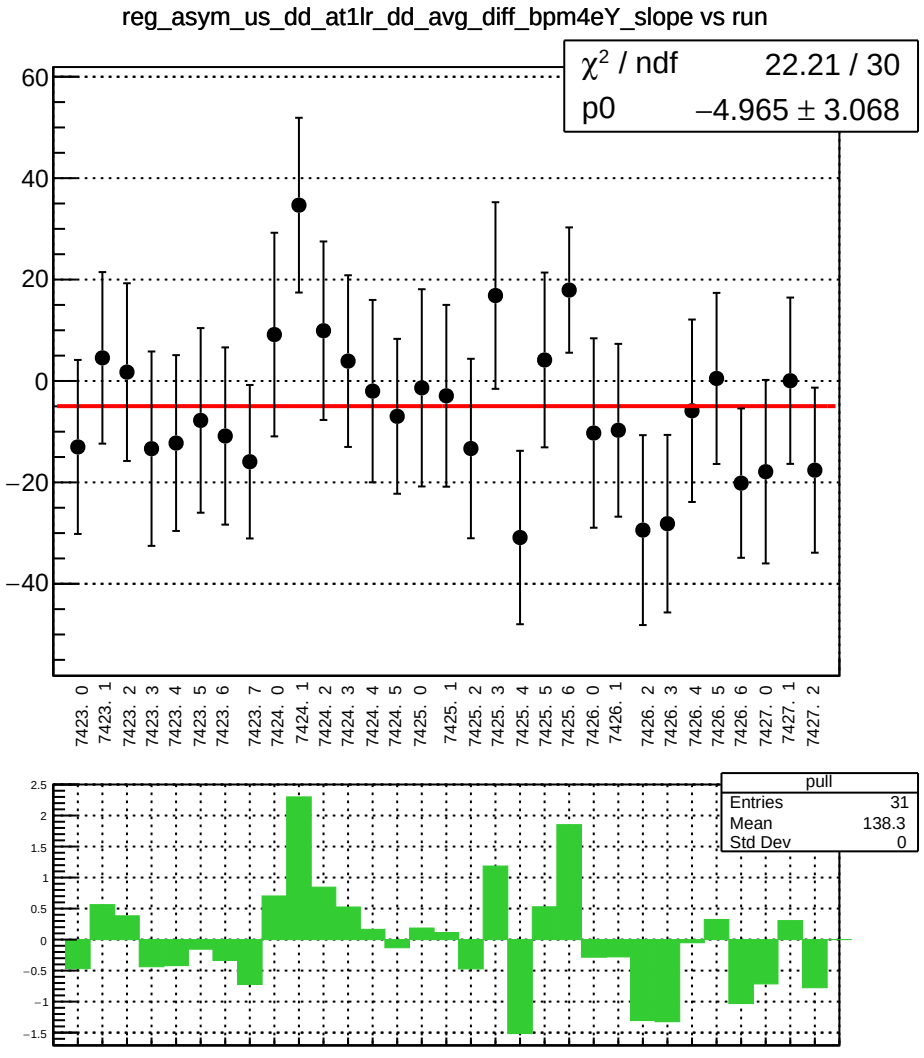

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 25.54 / 30
p0 86.75 ± 0.1798
90
89
88
87
86
85
84
83
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −138.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.0173
Std Dev 0.9075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

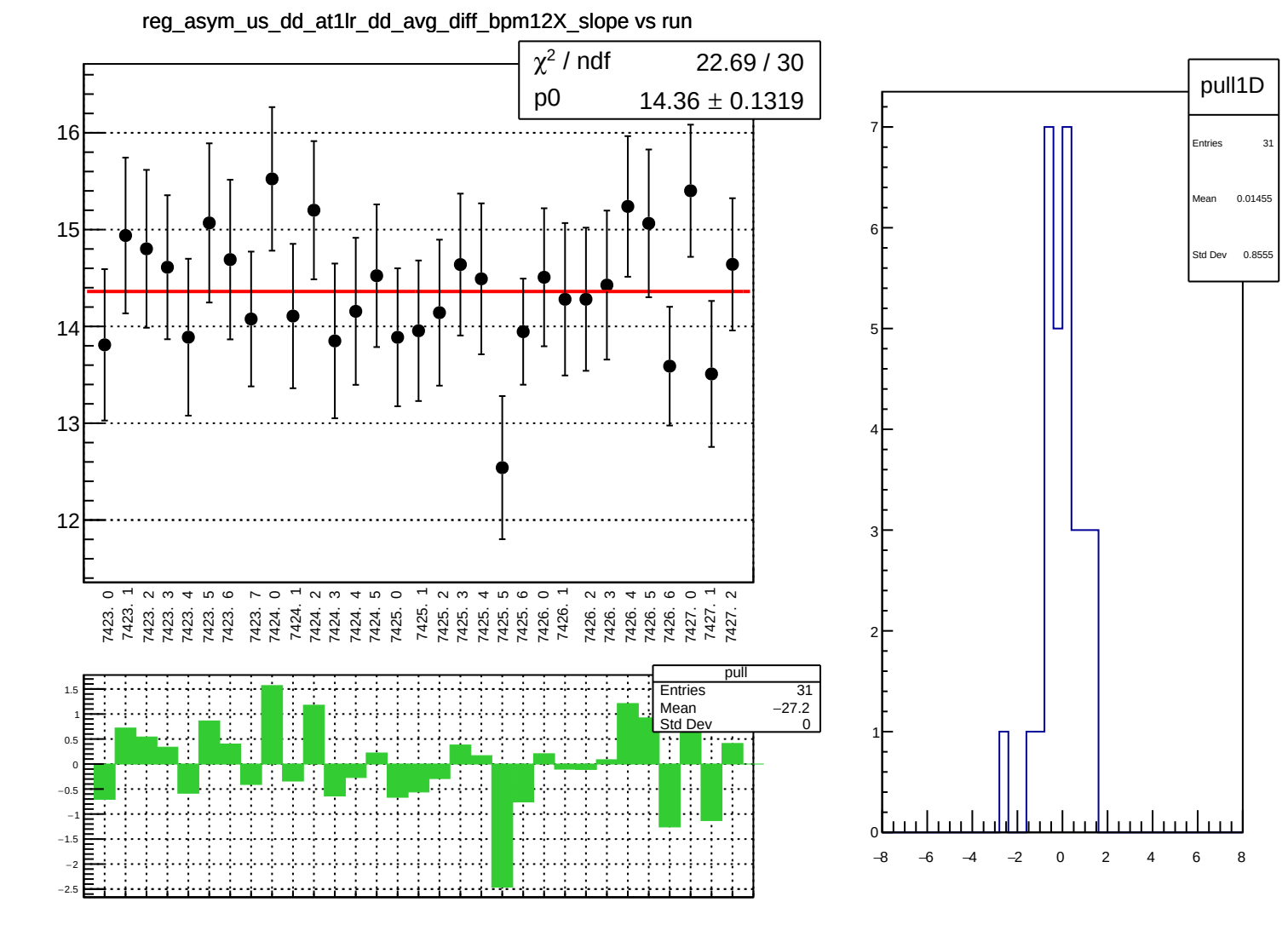

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 35.87 / 30
p0 32 ± 3.015
100
80
60
40
20
0
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −60.95
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.03119
Std Dev 1.075
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

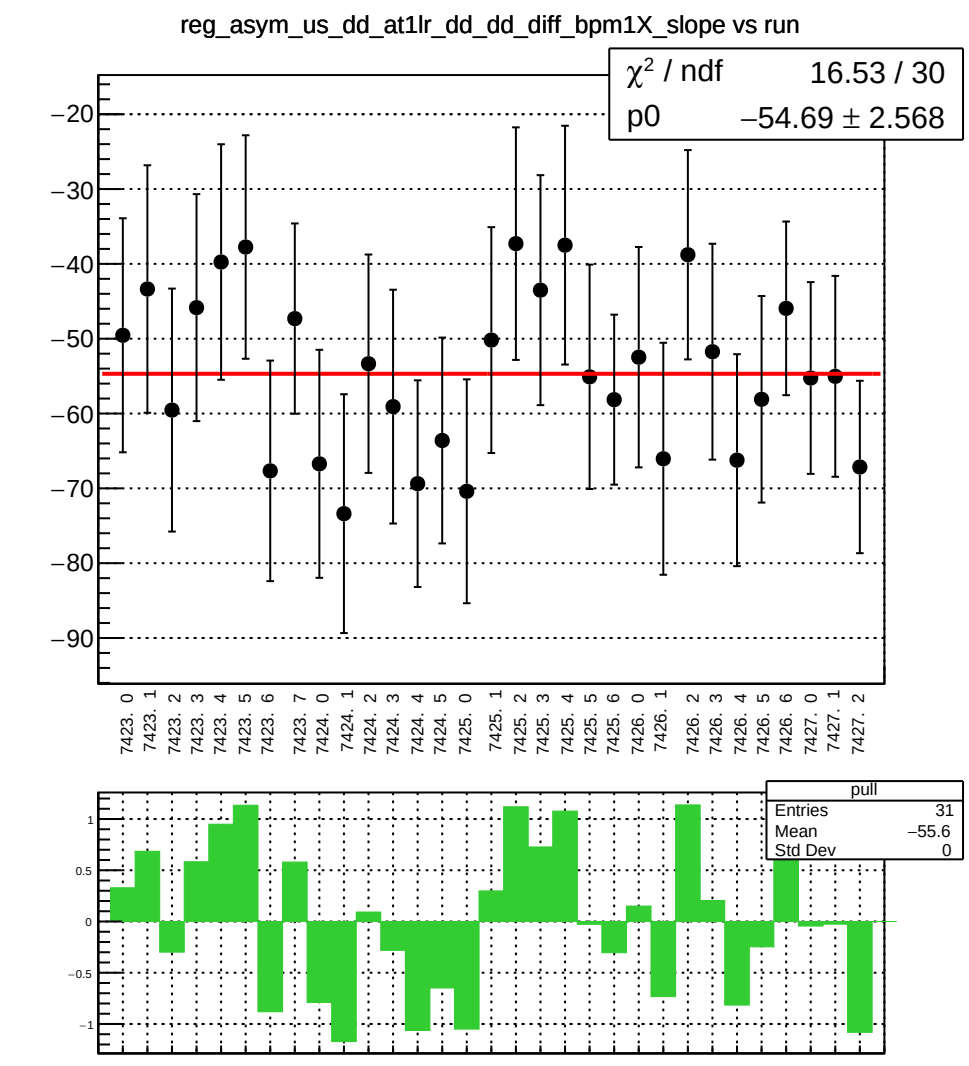

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.56 / 30
p0 3.57 ± 2.887
40
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 187.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.01132
Std Dev 0.8339
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

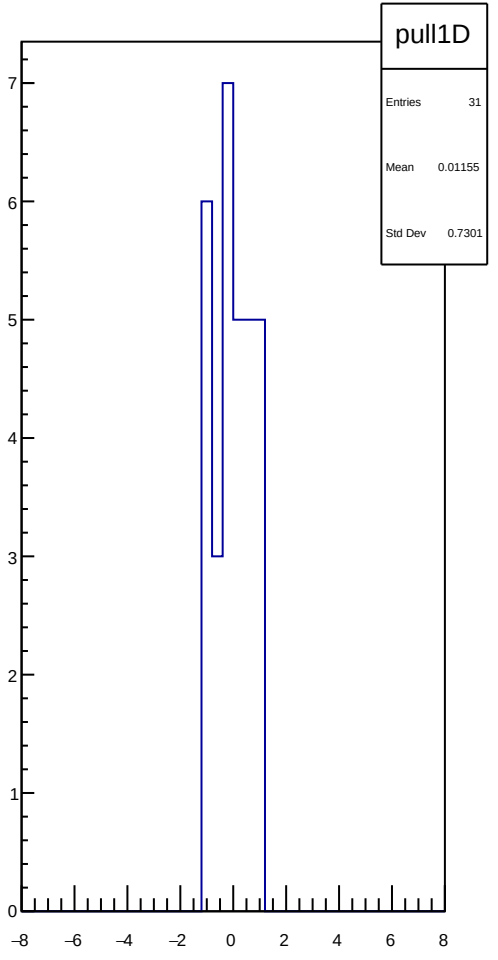

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.56 / 30
p0 −44.74 ± 3.117
20
0
−20
−40
−60
−80
−100
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −62.06
Std Dev 0
2
1
0
−1
−2

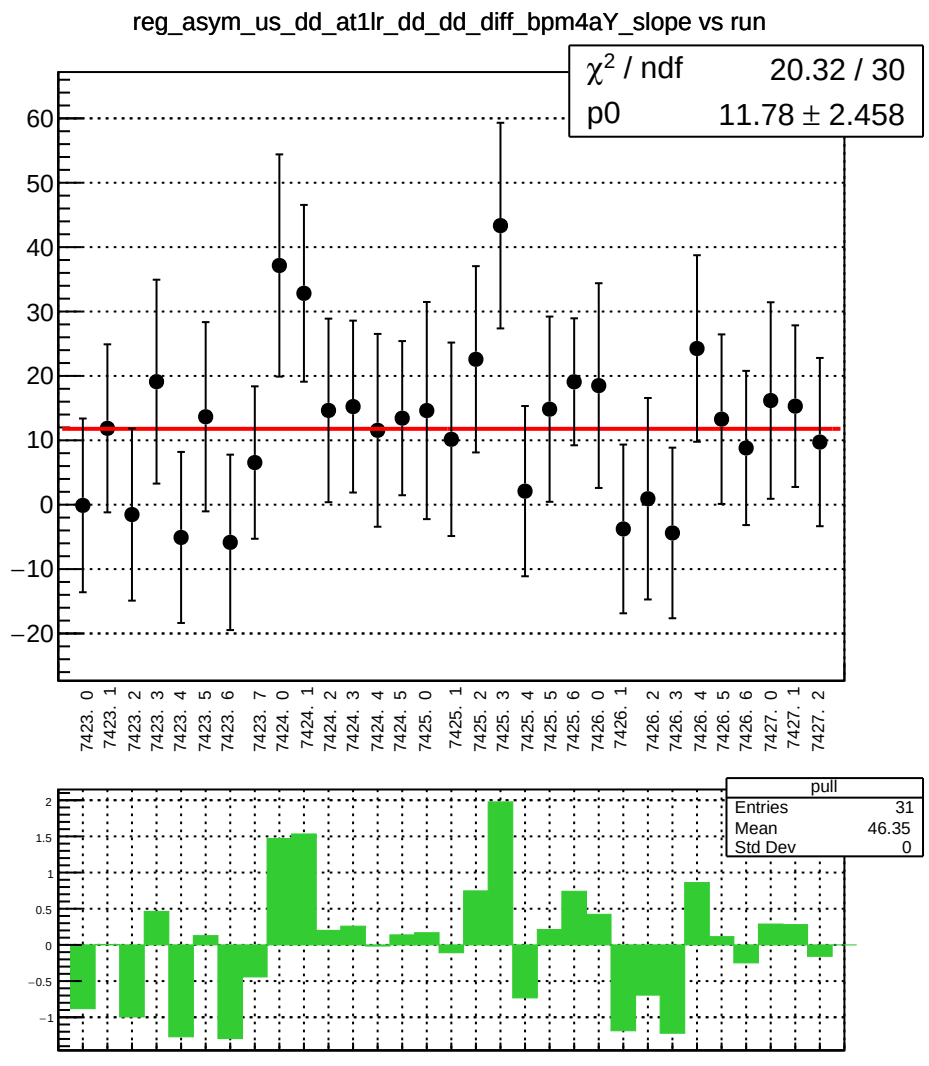

pull1D
Entries 31
Mean −0.03156
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

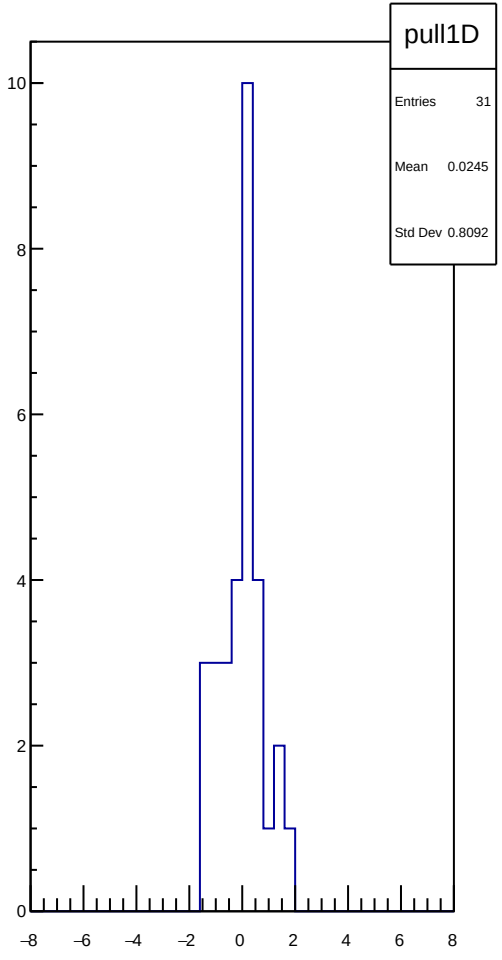

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.21 / 30
p0 −4.965 ± 3.068
60
40
20
0
−20
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 138.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01426
Std Dev 0.8462
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

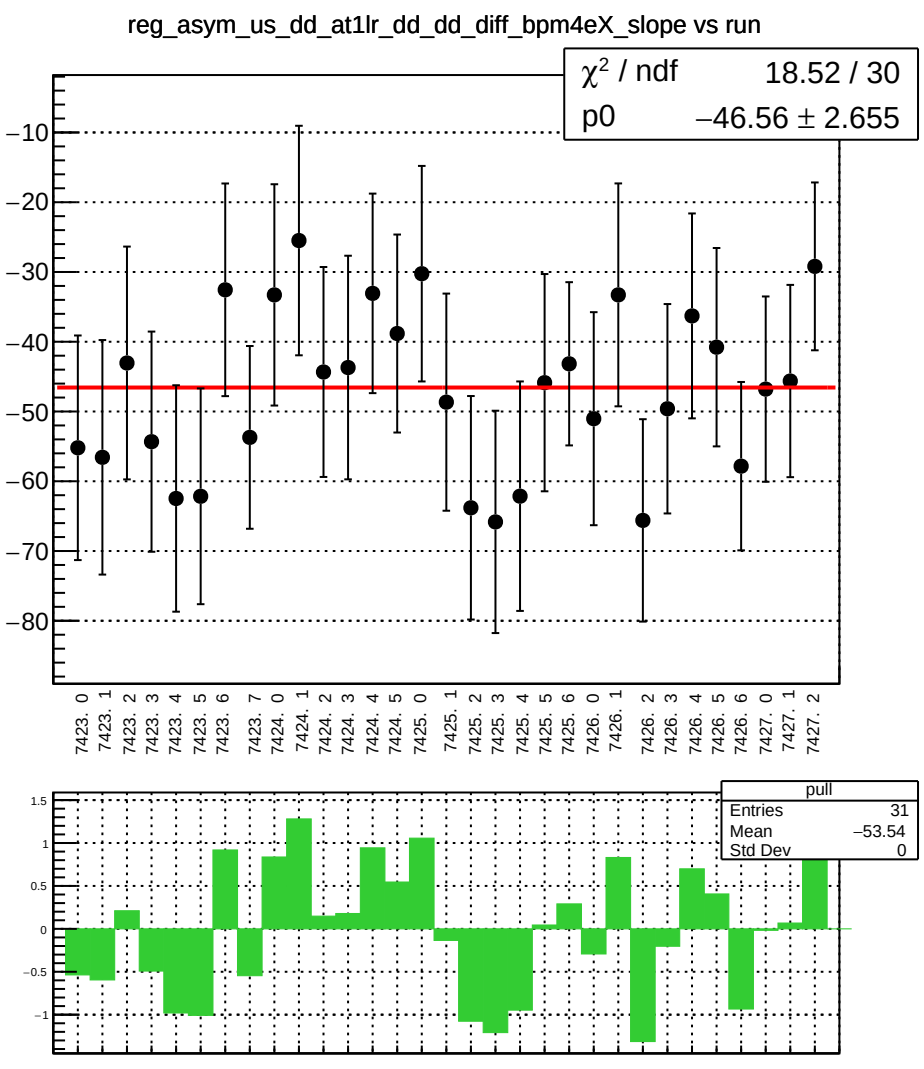

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 22.69 / 30
p0 14.36 ± 0.1319
16
15
14
13
12
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −27.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.01455
Std Dev 0.8555
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

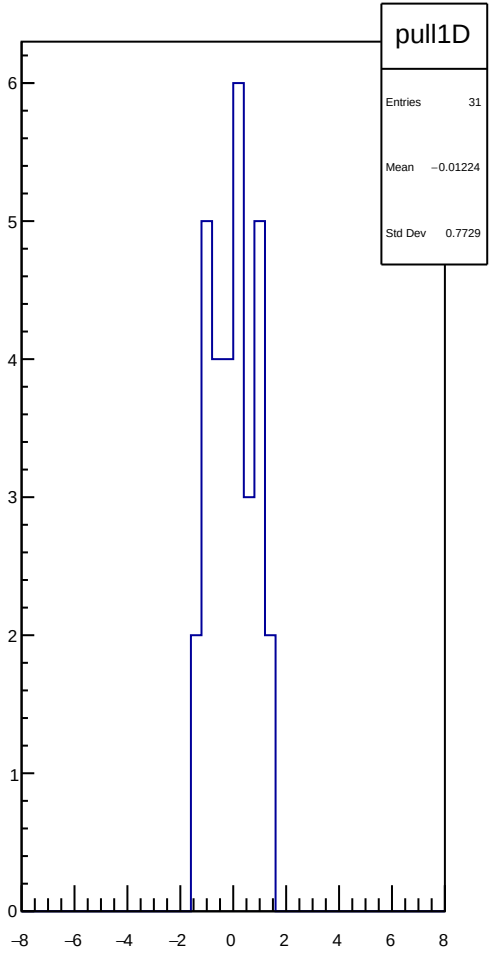

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 16.53 / 30
p0 −54.69 ± 2.568
−20
−30
−40
−50
−60
−70
−80
−90
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −55.6
Std Dev 0
1
0.5
0
−0.5
−1

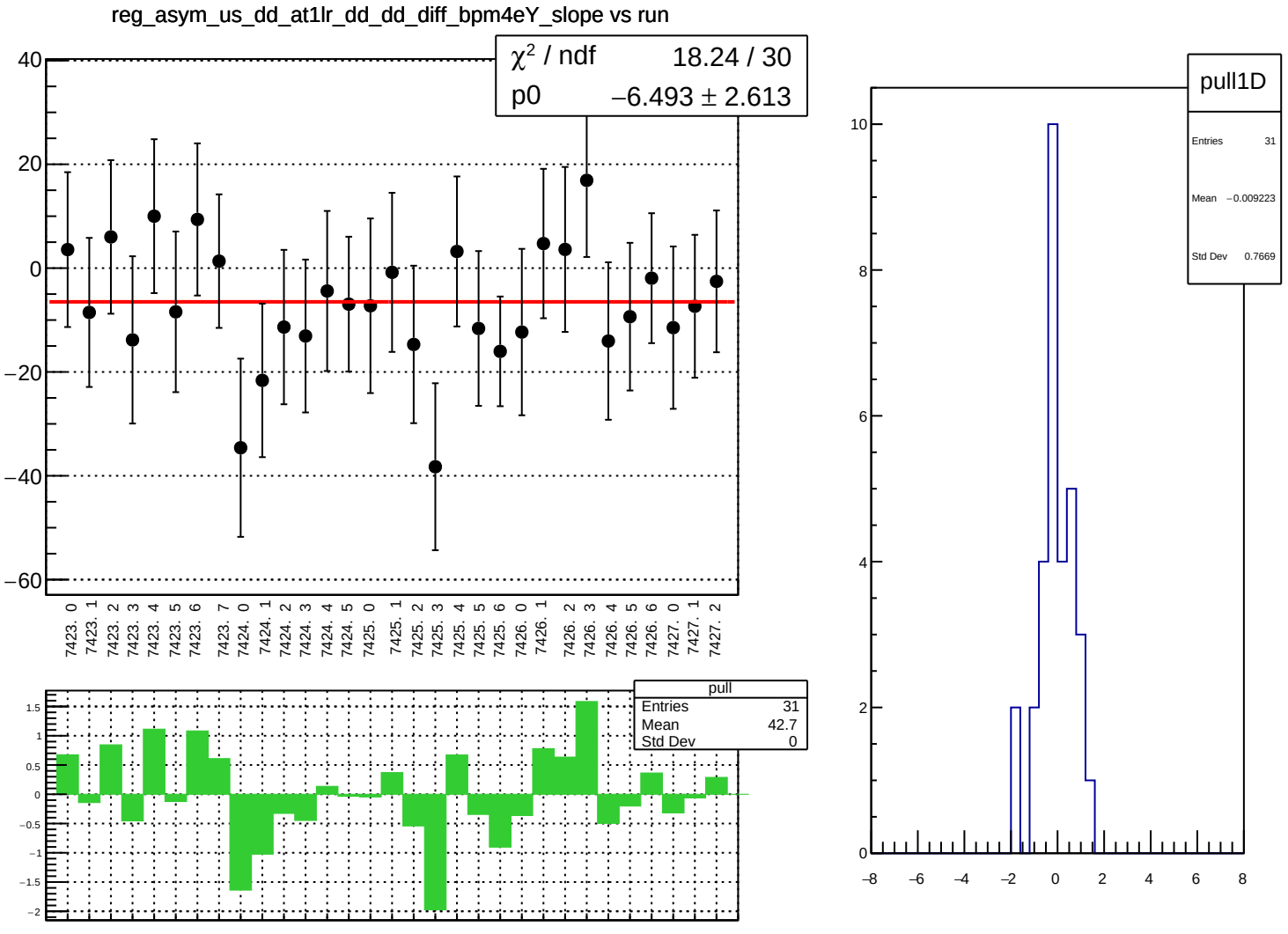

pull1D
Entries 31
Mean 0.01155
Std Dev 0.7301
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

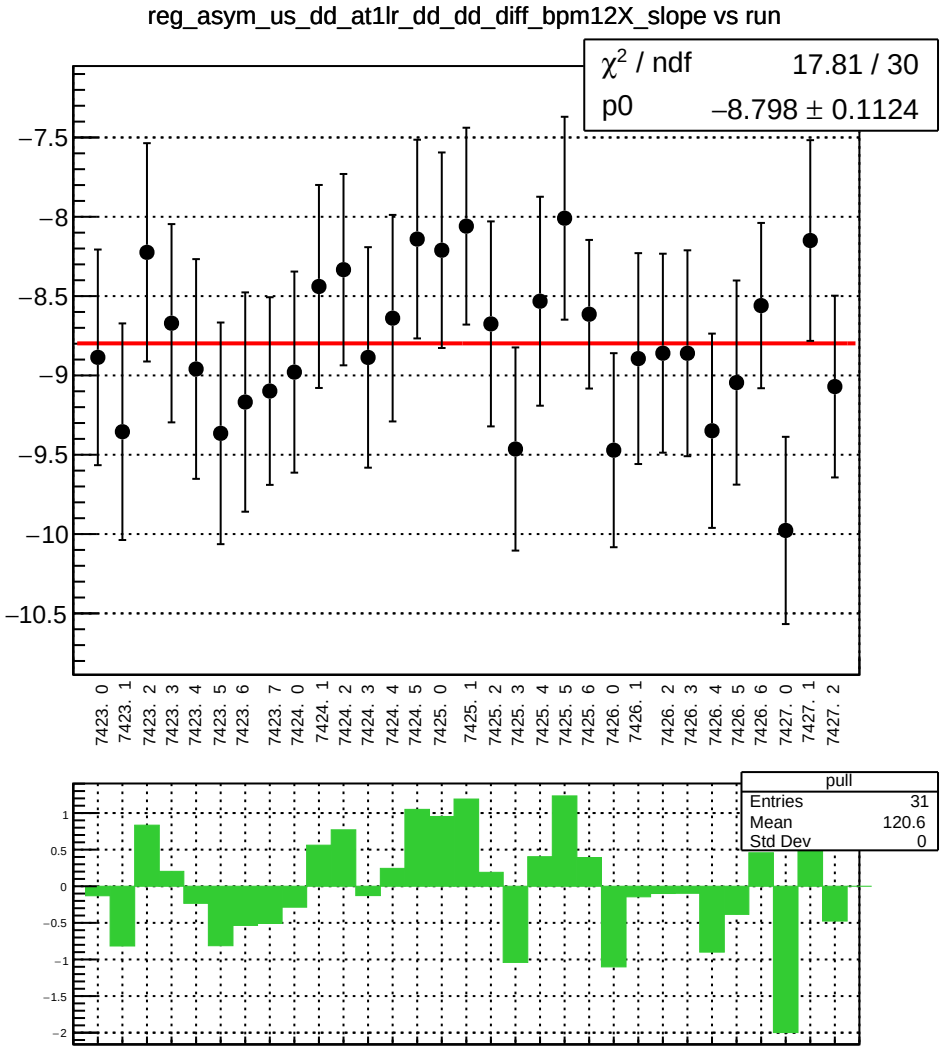

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.32 / 30
p0 11.78 ± 2.458
pull
Entries 31
Mean 46.35
Std Dev 0

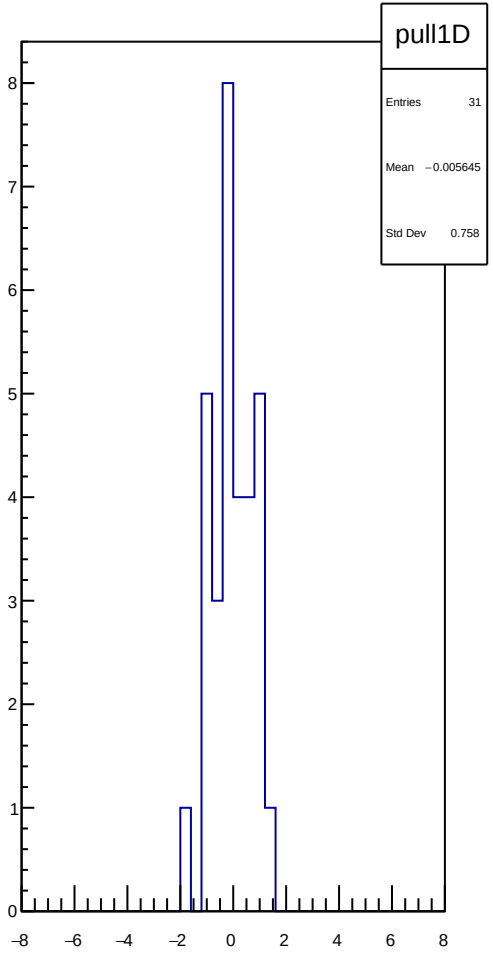

pull1D
Entries 31
Mean 0.0245
Std Dev 0.8092

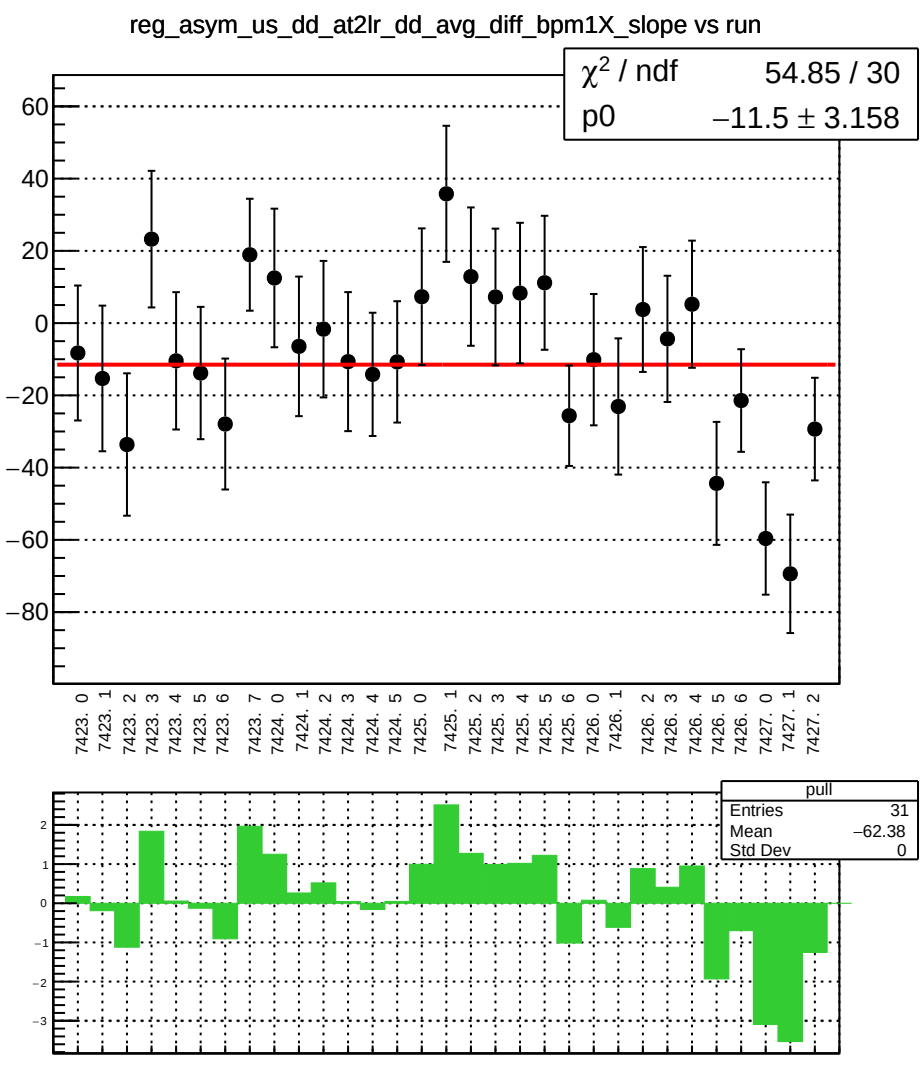

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.52 / 30
p0 −46.56 ± 2.655
−10
−20
−30
−40
−50
−60
−70
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −53.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1

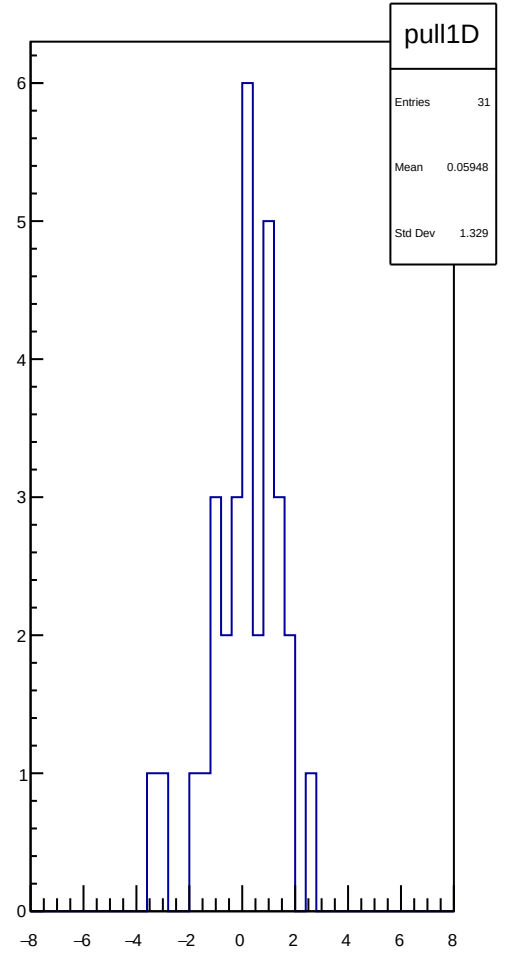

pull1D
Entries 31
Mean −0.01224
Std Dev 0.7729
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

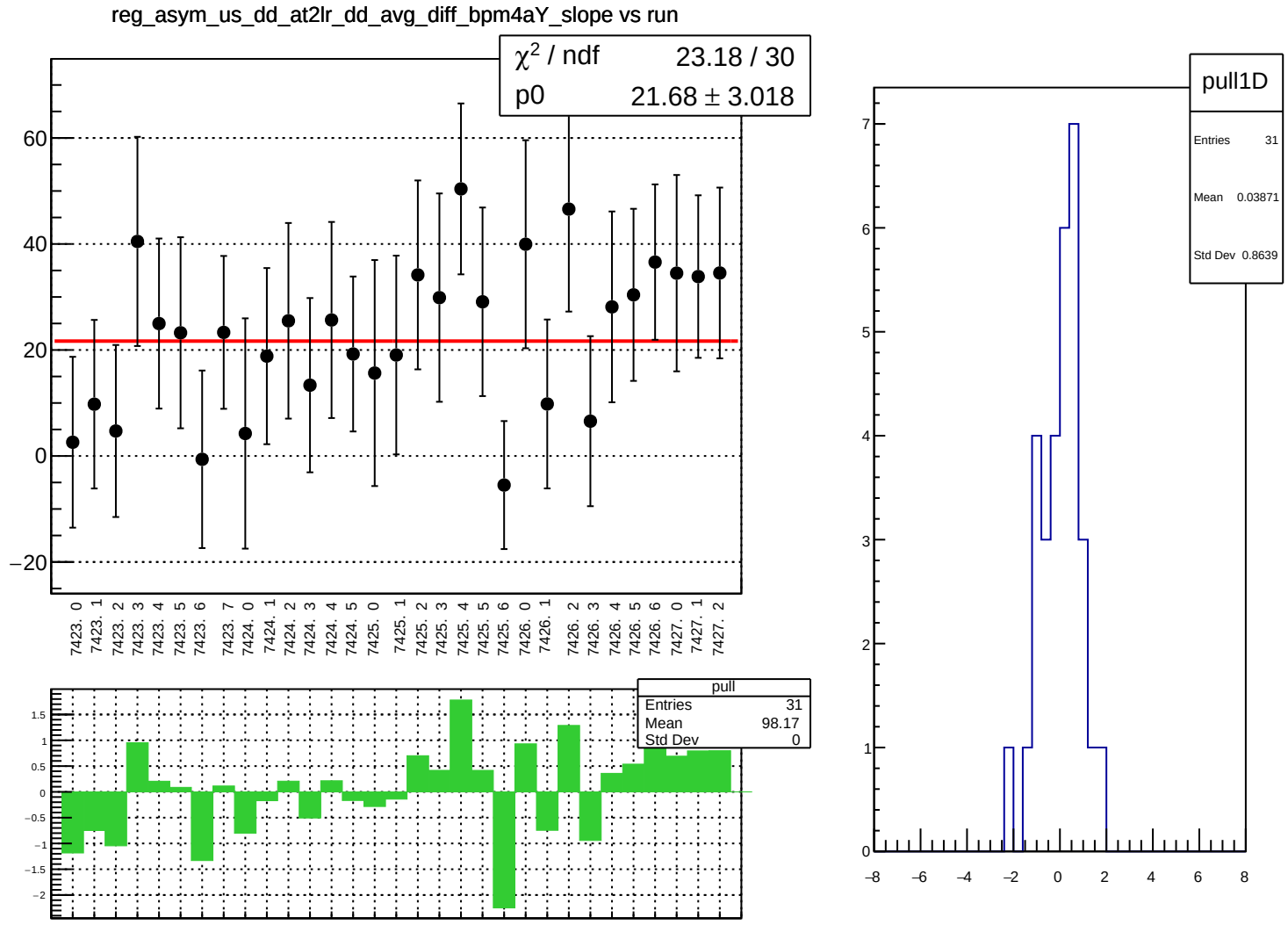

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.24 / 30
p0 −6.493 ± 2.613
pull
Entries 31
Mean 42.7
Std Dev 0
pull1D
Entries 31
Mean −0.009223
Std Dev 0.7669

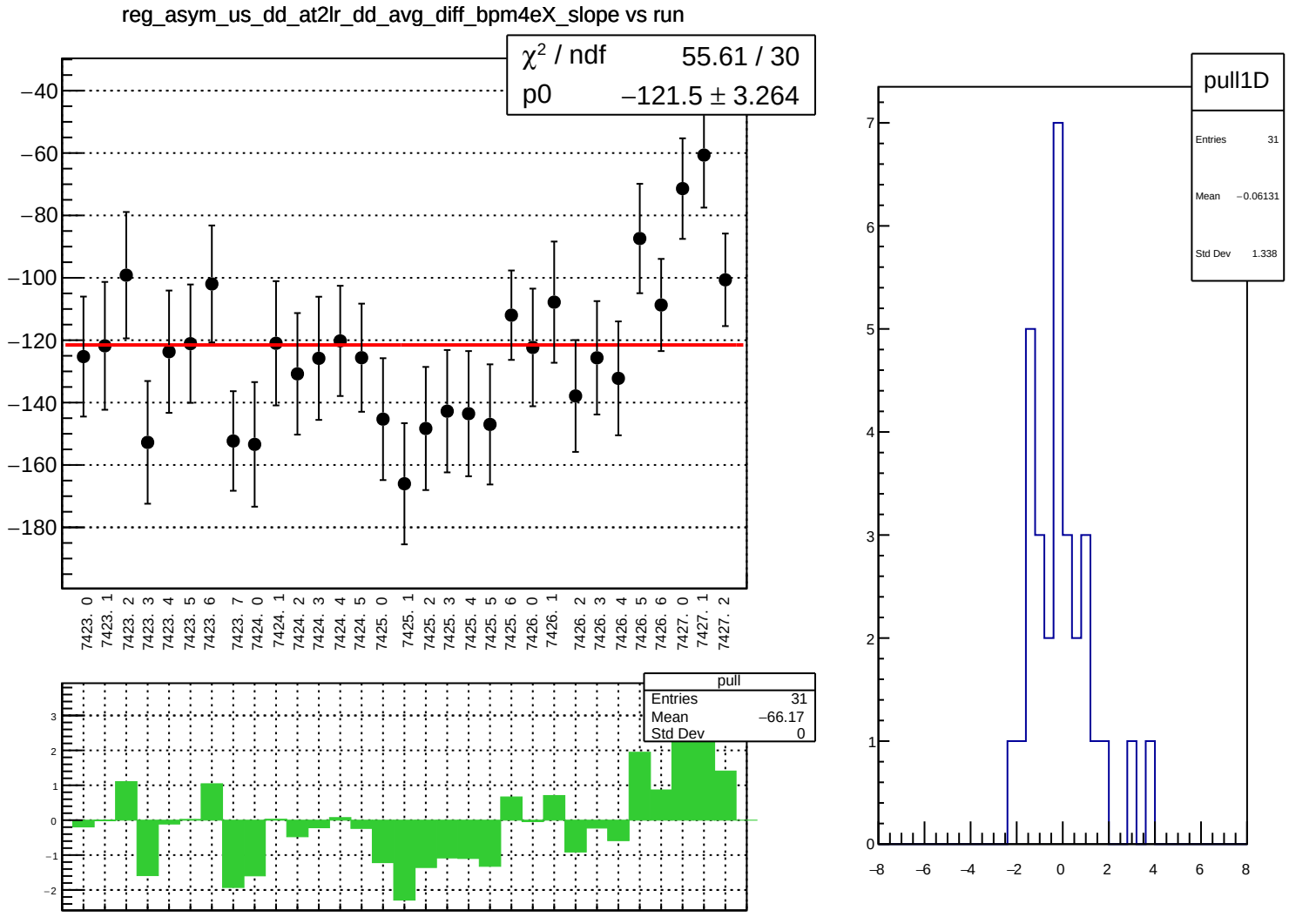

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 17.81 / 30
p0 −8.798 ± 0.1124
−7.5
−8
−8.5
−9
−9.5
−10
−10.5
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 120.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

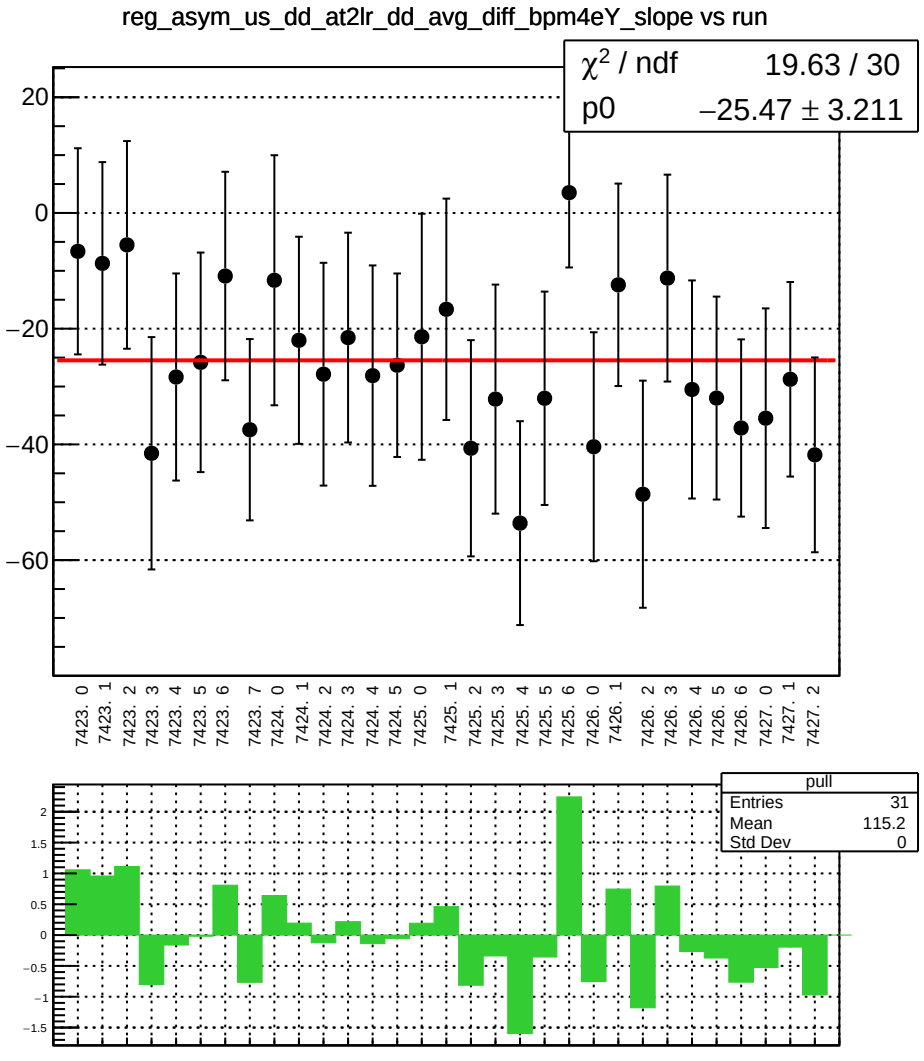

pull1D
Entries 31
Mean −0.005645
Std Dev 0.758
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

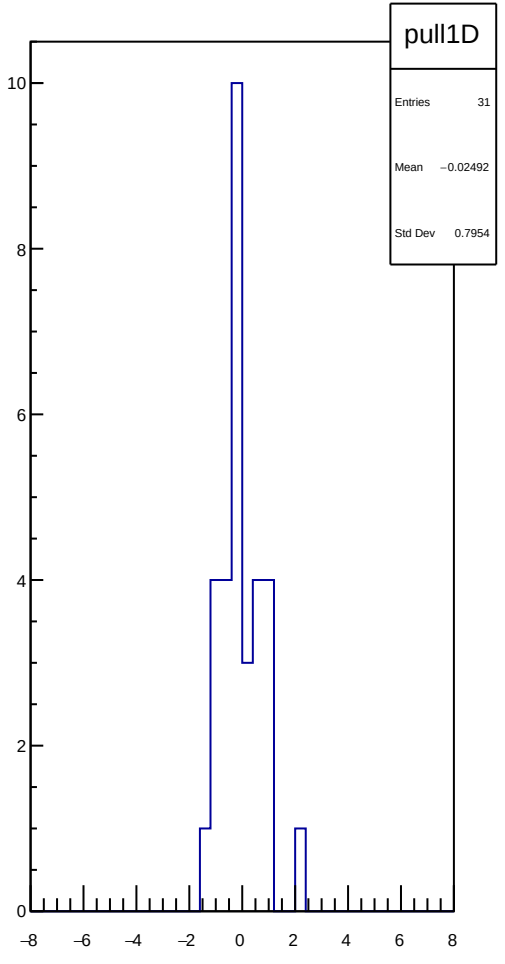

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 54.85 / 30
p0 −11.5 ± 3.158
60
40
20
0
−20
−40
−60
−80
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −62.38
Std Dev 0
2
1
0
−1
−2
−3

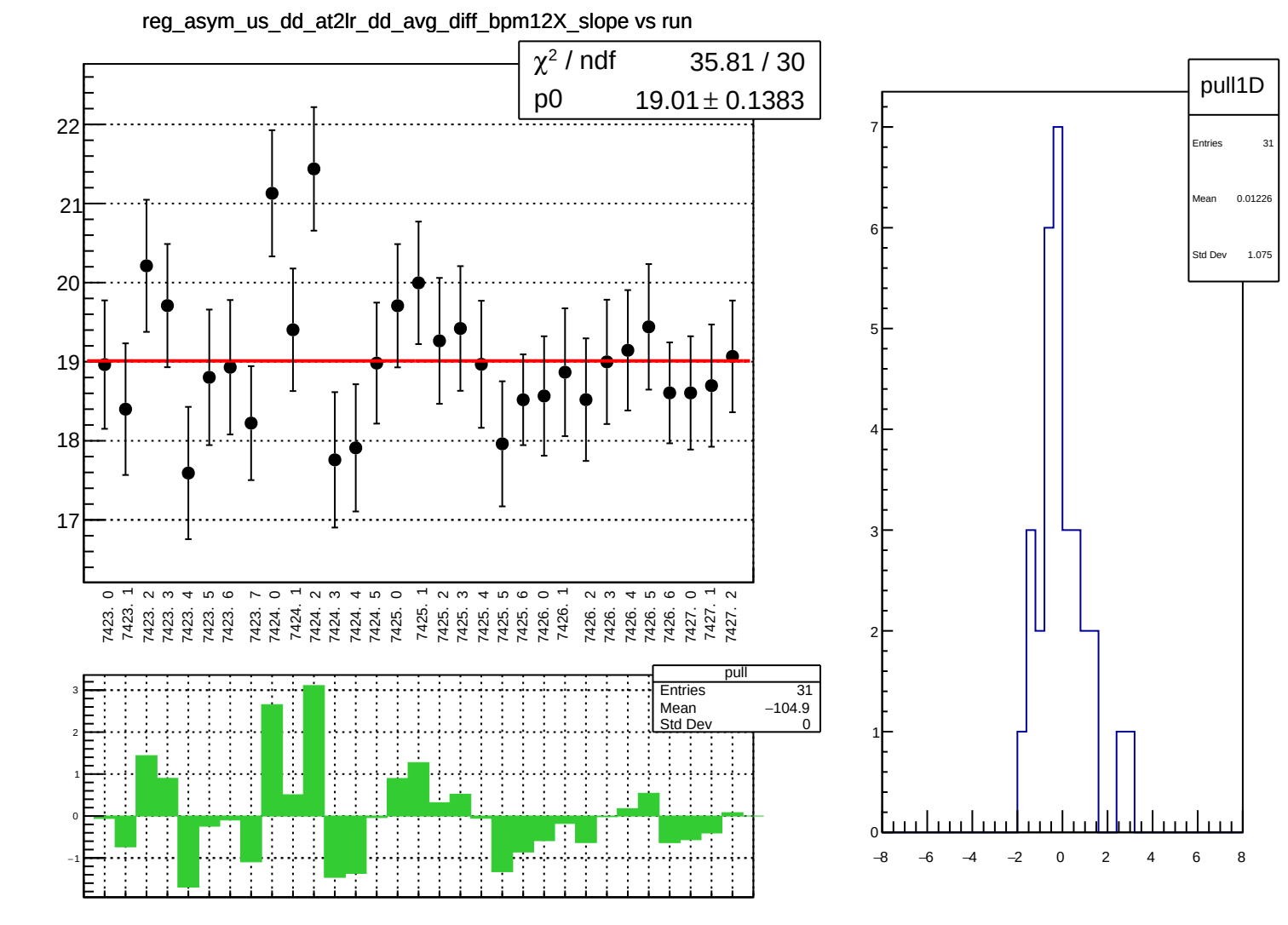

pull1D
Entries 31
Mean 0.05948
Std Dev 1.329
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

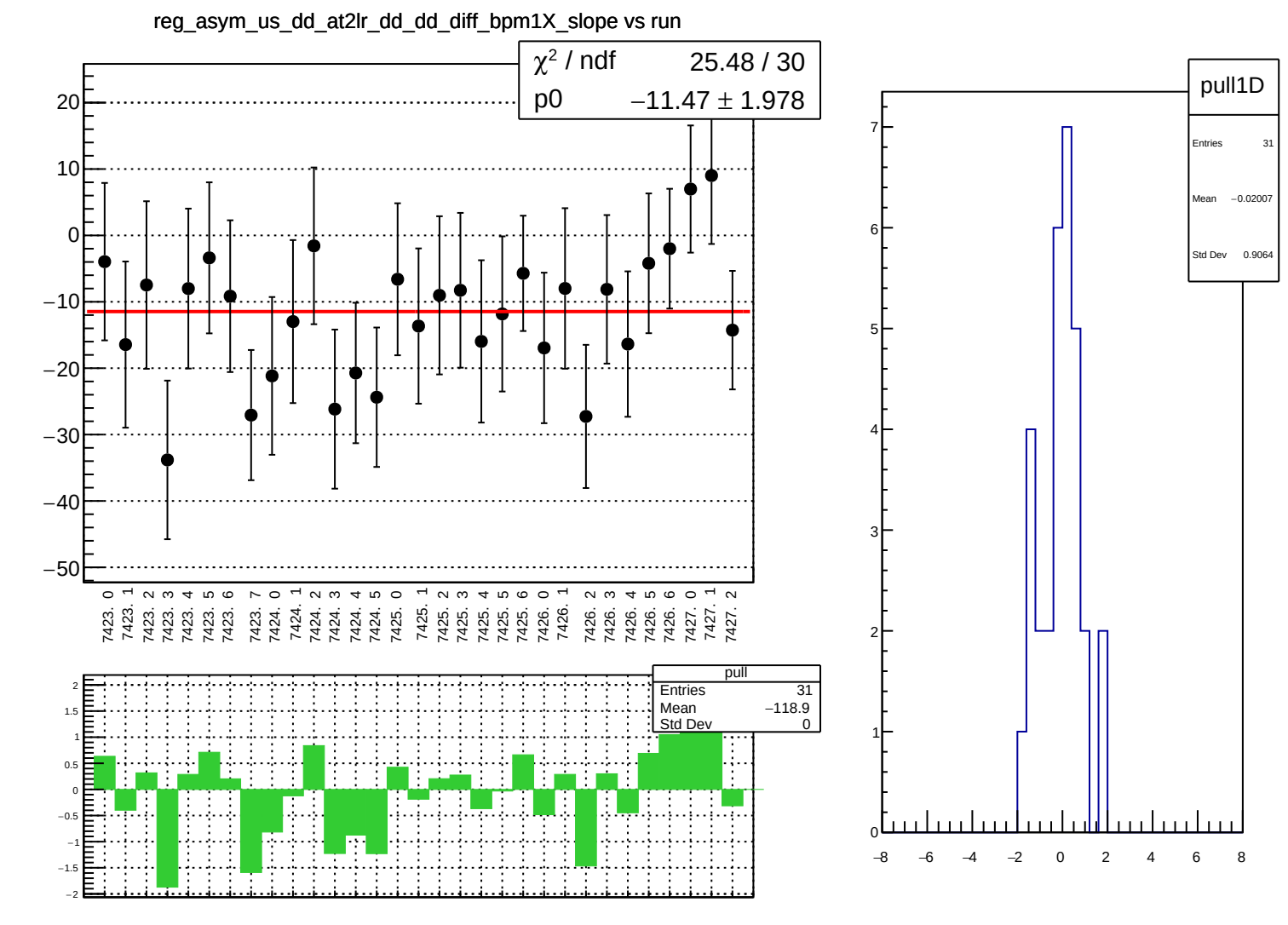

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.18 / 30
p0 21.68 ± 3.018
60
40
20
0
−20
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 98.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.03871
Std Dev 0.8639
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

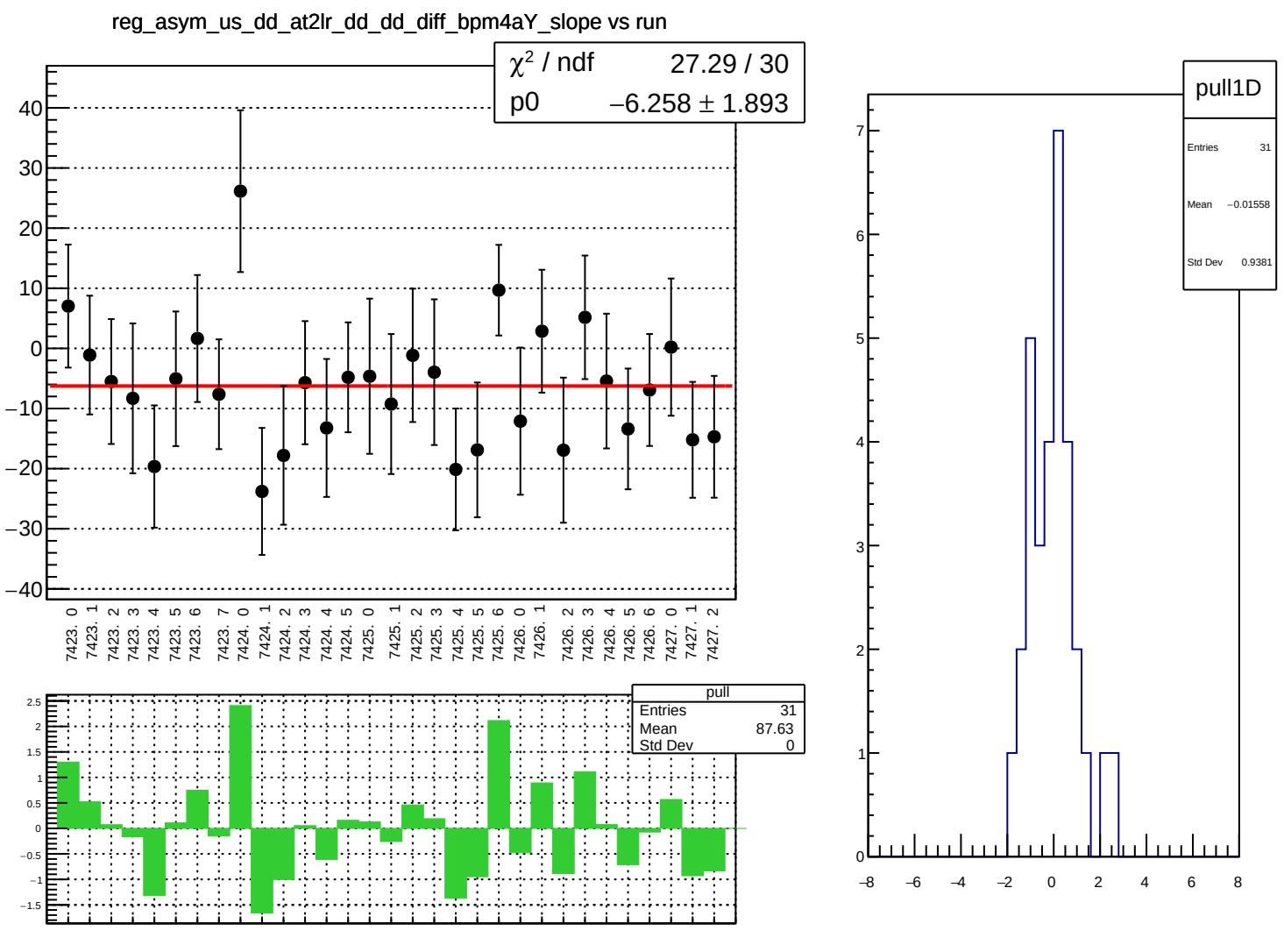

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.61 / 30
p0 −121.5 ± 3.264
−40
−60
−80
−100
−120
−140
−160
−180
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −66.17
Std Dev 0
pull1D
Entries 31
Mean −0.06131
Std Dev 1.338

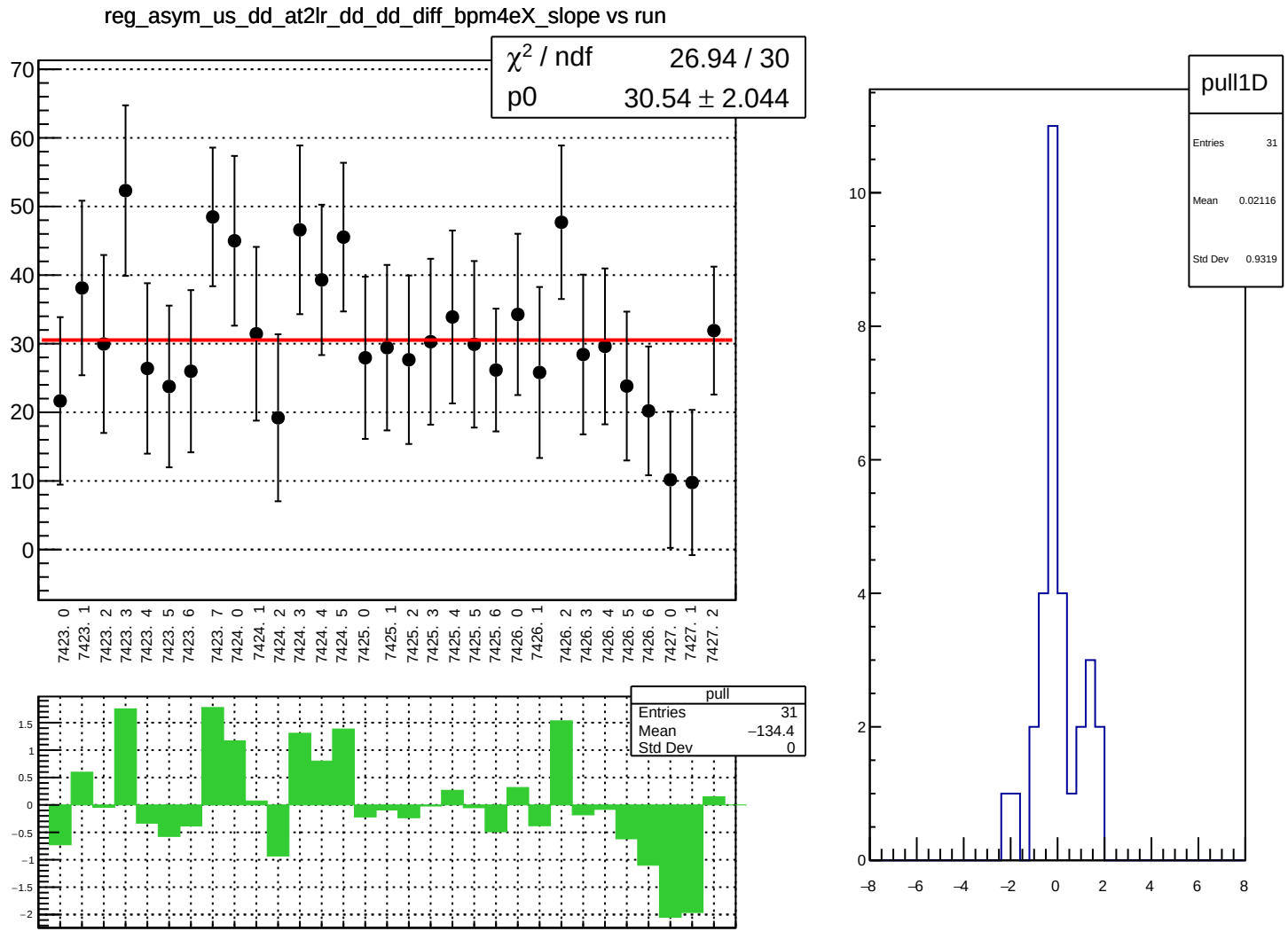

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.63 / 30
p0 −25.47 ± 3.211
20
0
−20
−40
−60
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 115.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

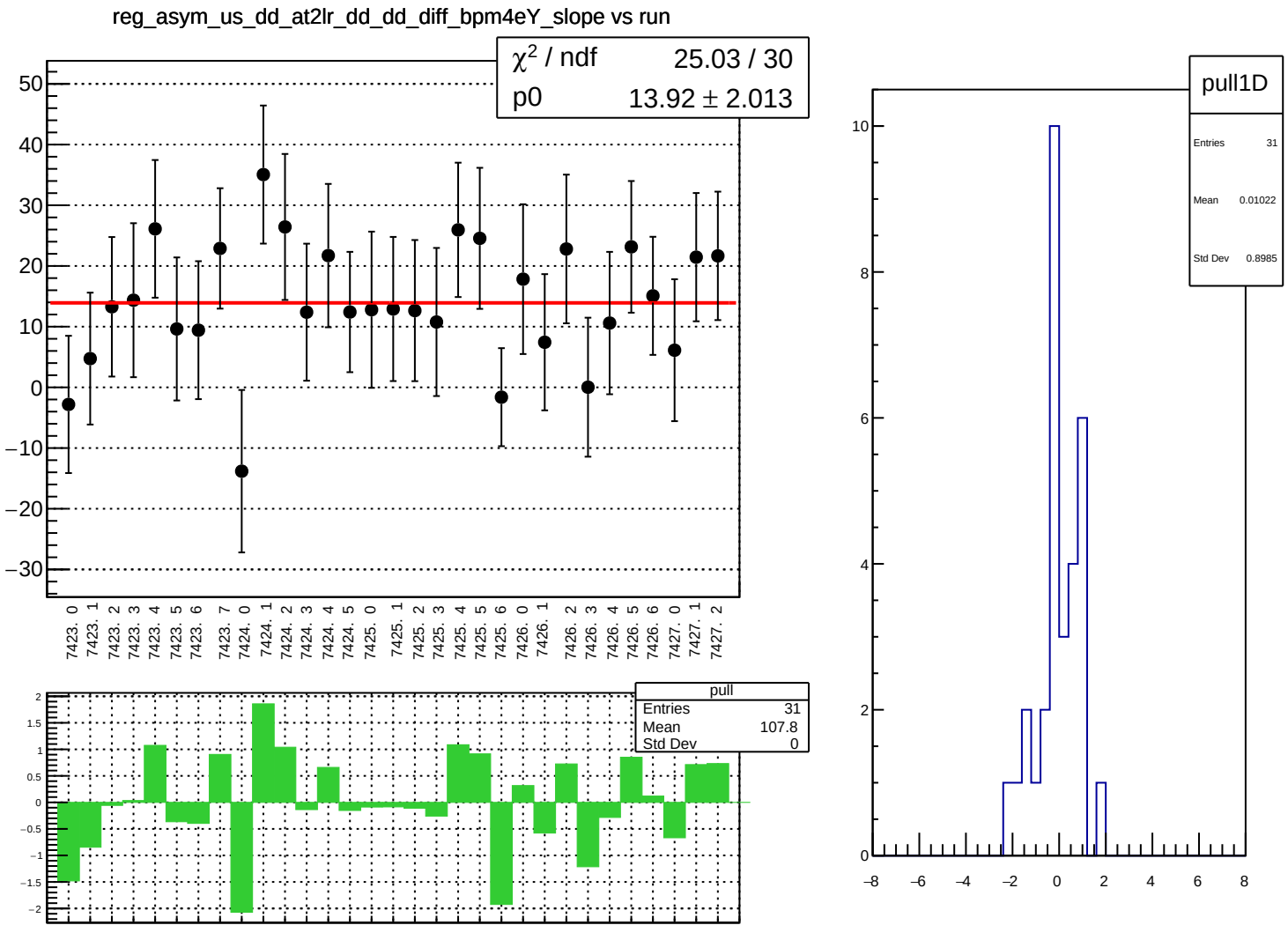

pull1D
Entries 31
Mean −0.02492
Std Dev 0.7954
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

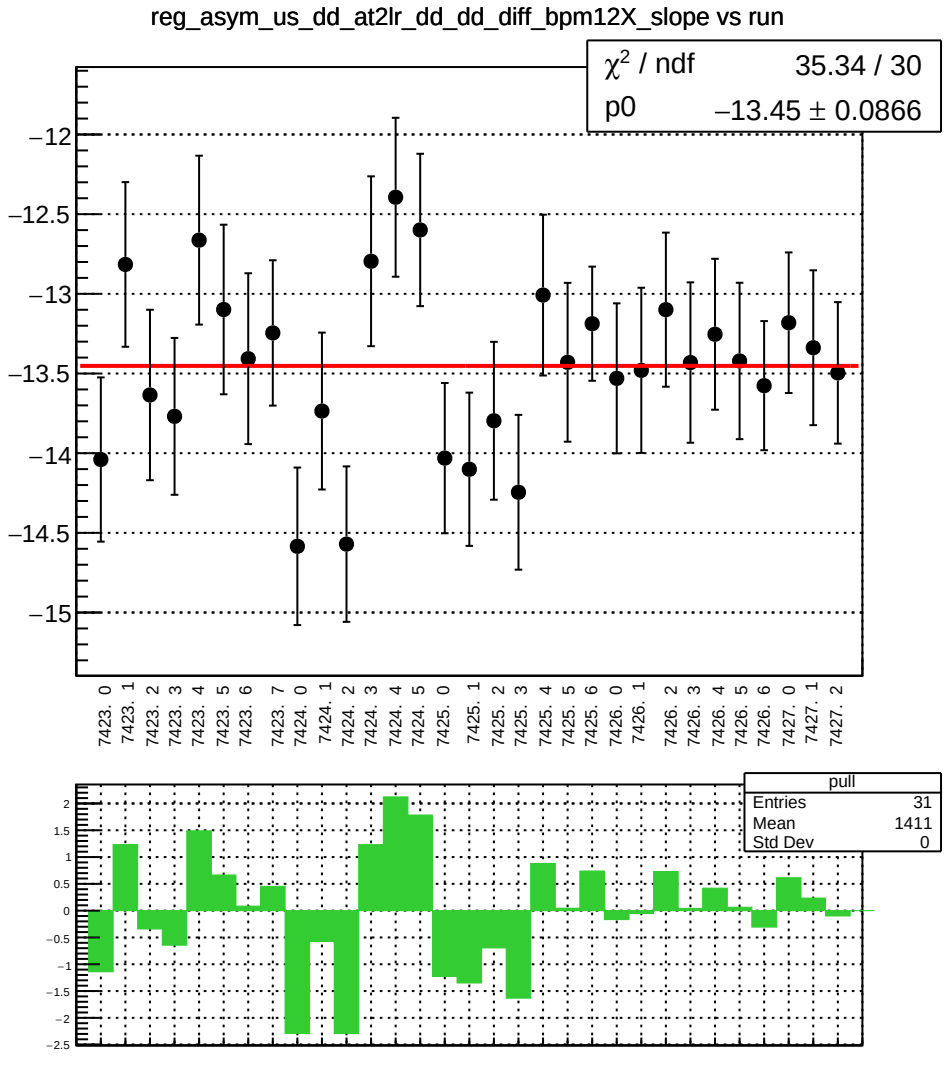

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 35.81 / 30
p0 19.01 ± 0.1383
22
21
20
19
18
17
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −104.9
Std Dev 0
3
2
1
0
−1
pull1D
Entries 31
Mean 0.01226
Std Dev 1.075
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

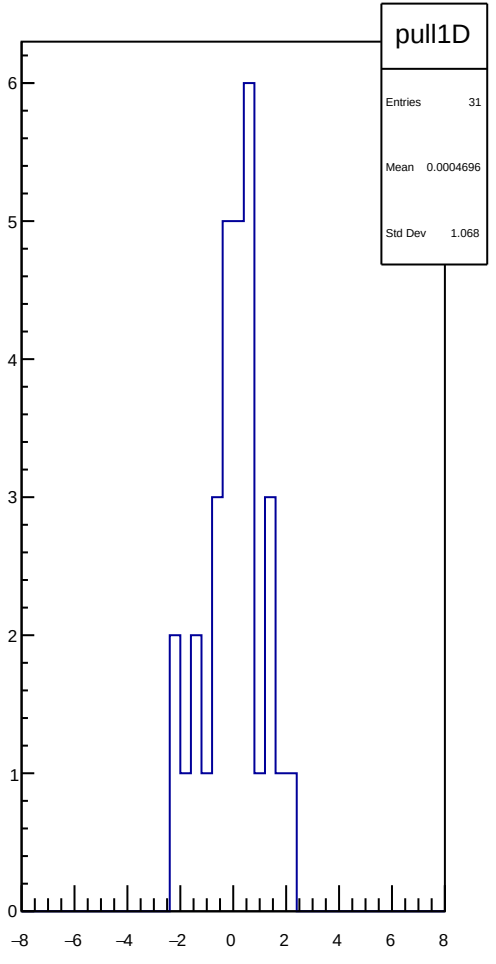

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 25.48 / 30
p0 −11.47 ± 1.978
pull
Entries 31
Mean −118.9
Std Dev 0
pull1D
Entries 31
Mean −0.02007
Std Dev 0.9064

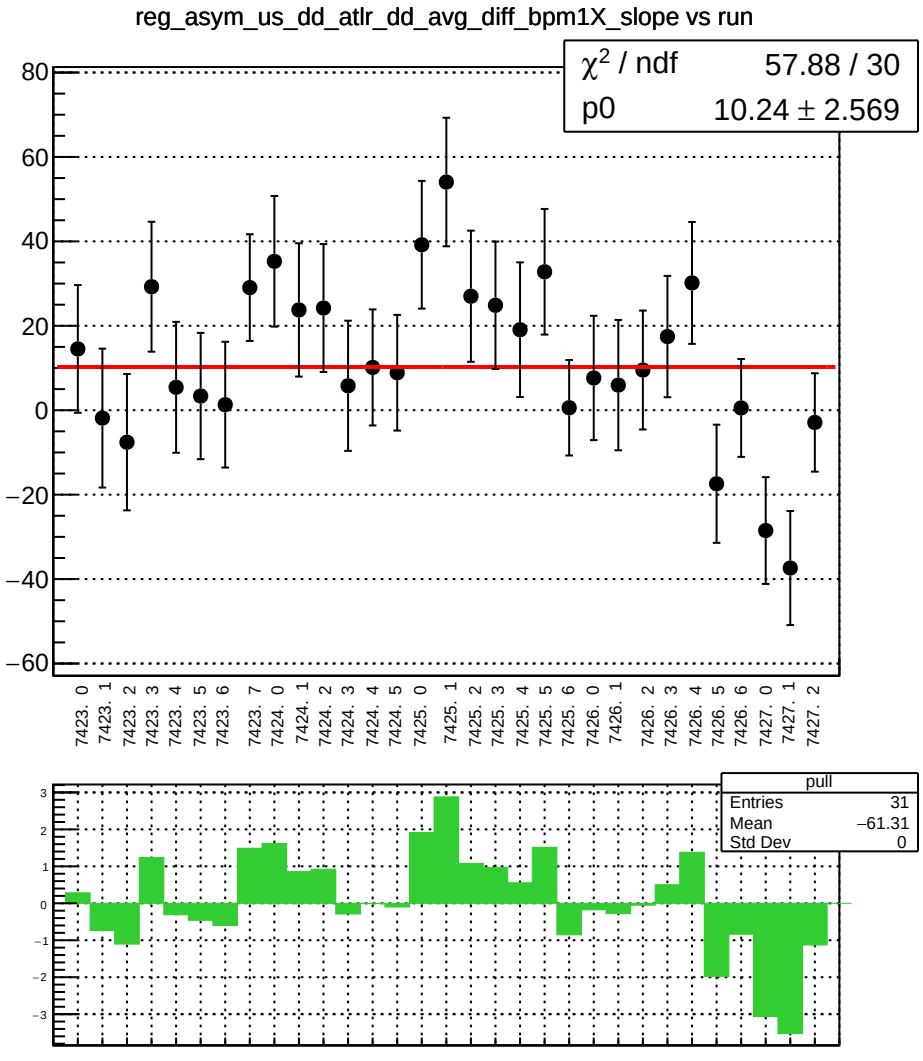

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.29 / 30
p0 −6.258 ± 1.893
40
30
20
10
0
−10
−20
−30
−40
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 87.63
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.01558
Std Dev 0.9381
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

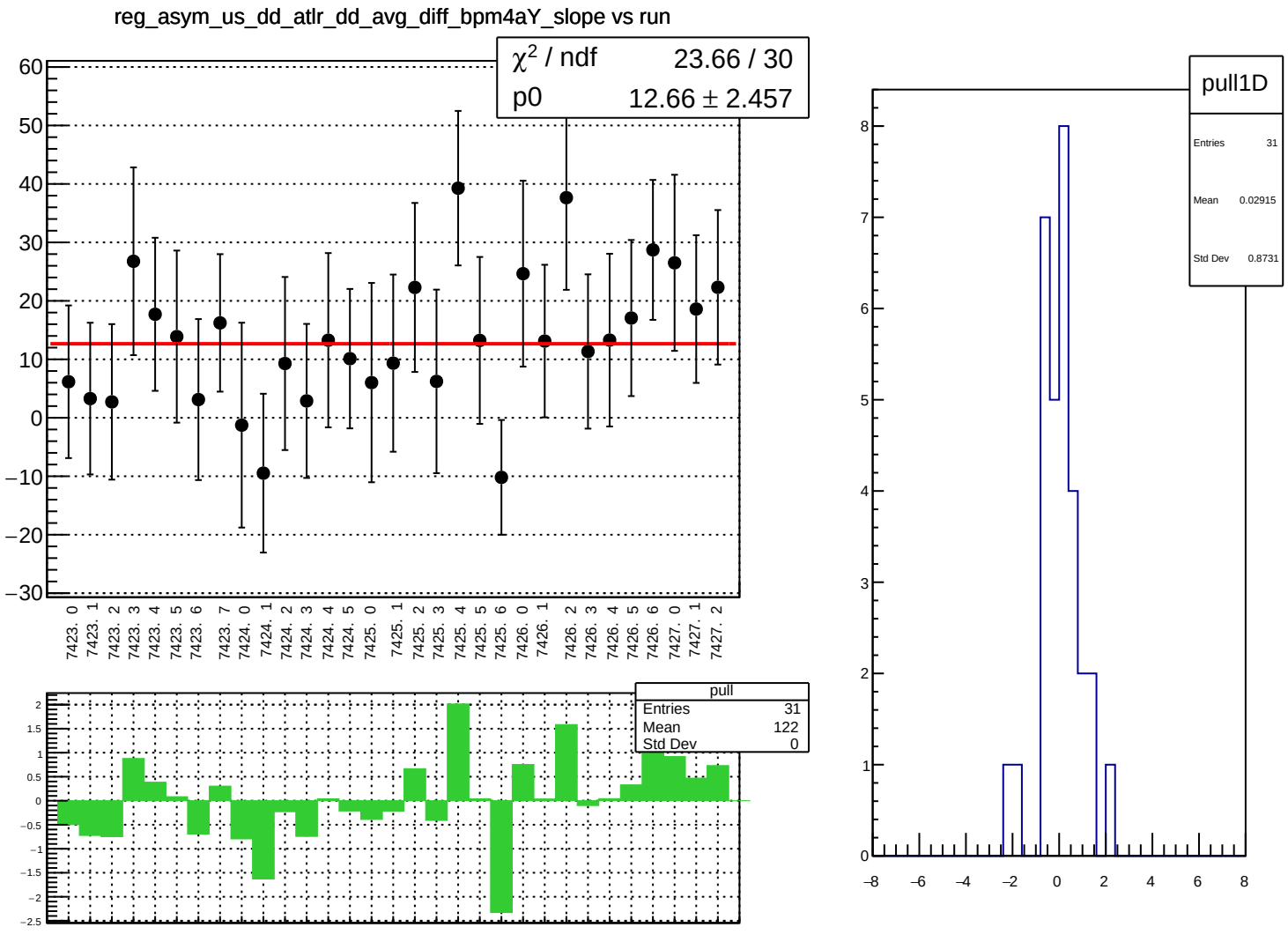

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.94 / 30
p0 30.54 ± 2.044
70
60
50
40
30
20
10
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −134.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.02116
Std Dev 0.9319
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

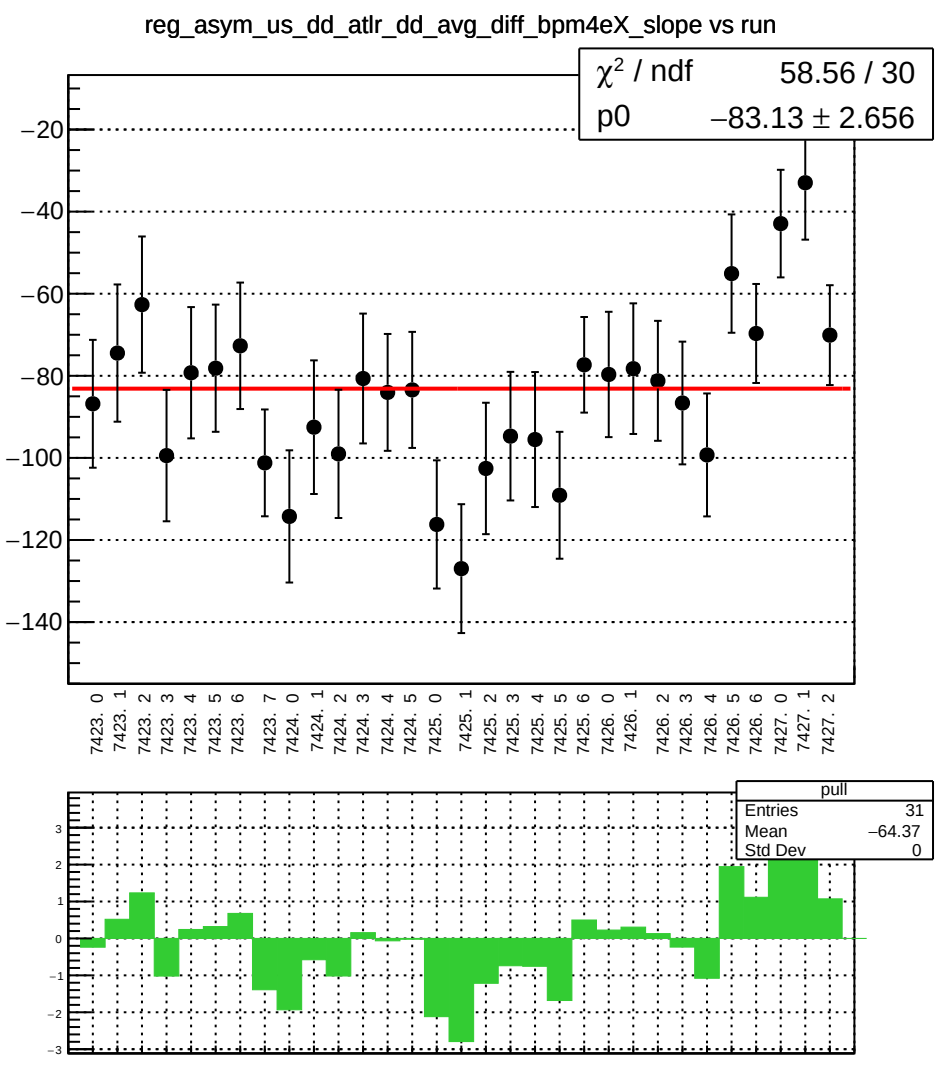

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.03 / 30
p0 13.92 ± 2.013
pull
Entries 31
Mean 107.8
Std Dev 0
pull1D
Entries 31
Mean 0.01022
Std Dev 0.8985

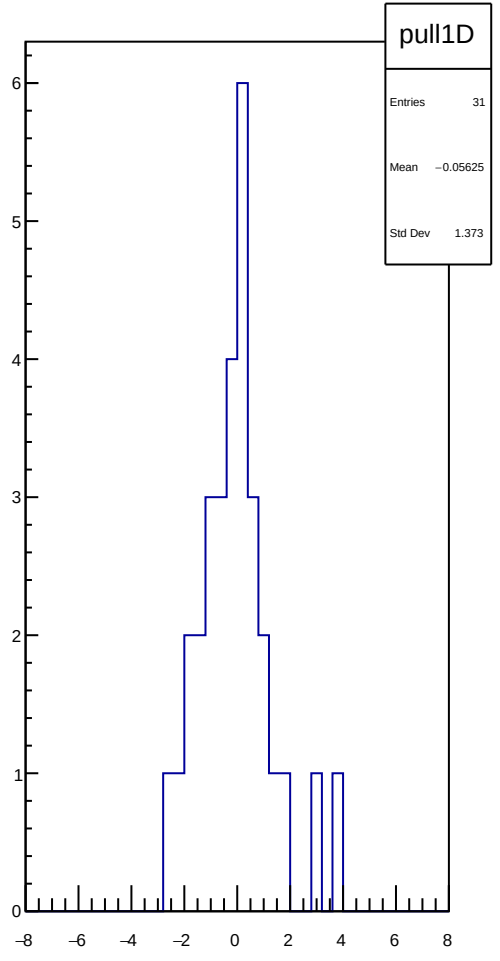

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 35.34 / 30
p0 −13.45 ± 0.0866
−12
−12.5
−13
−13.5
−14
−14.5
−15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 1411
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

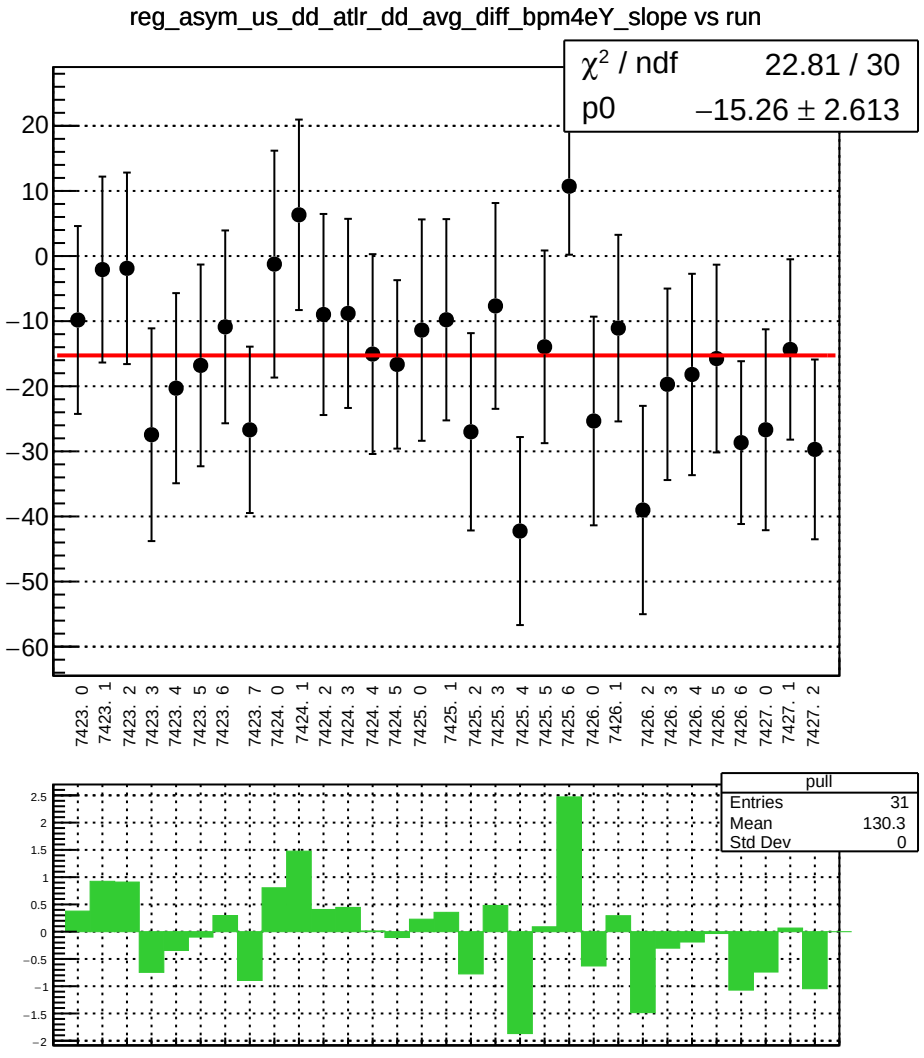

pull1D
Entries 31
Mean 0.0004696
Std Dev 1.068
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

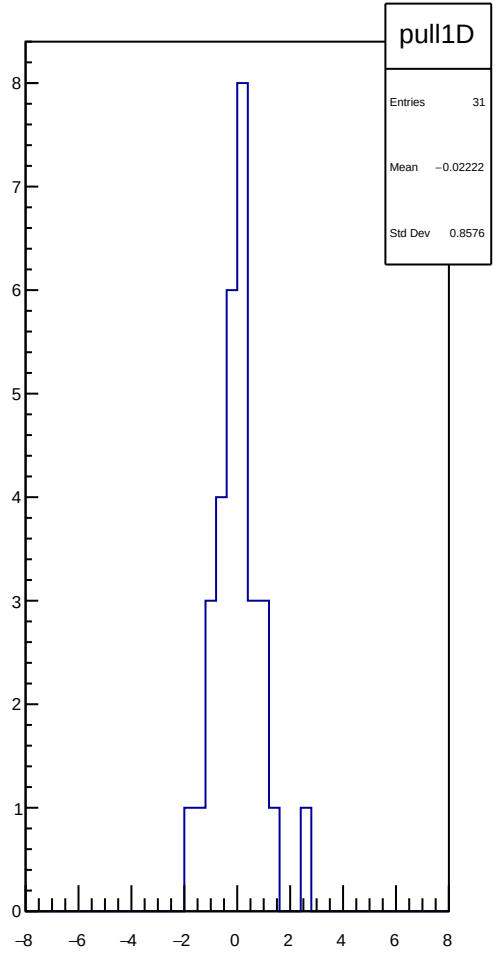

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 57.88 / 30
p0 10.24 ± 2.569
pull
Entries 31
Mean −61.31
Std Dev 0
pull1D
Entries 31
Mean 0.05504
Std Dev 1.365

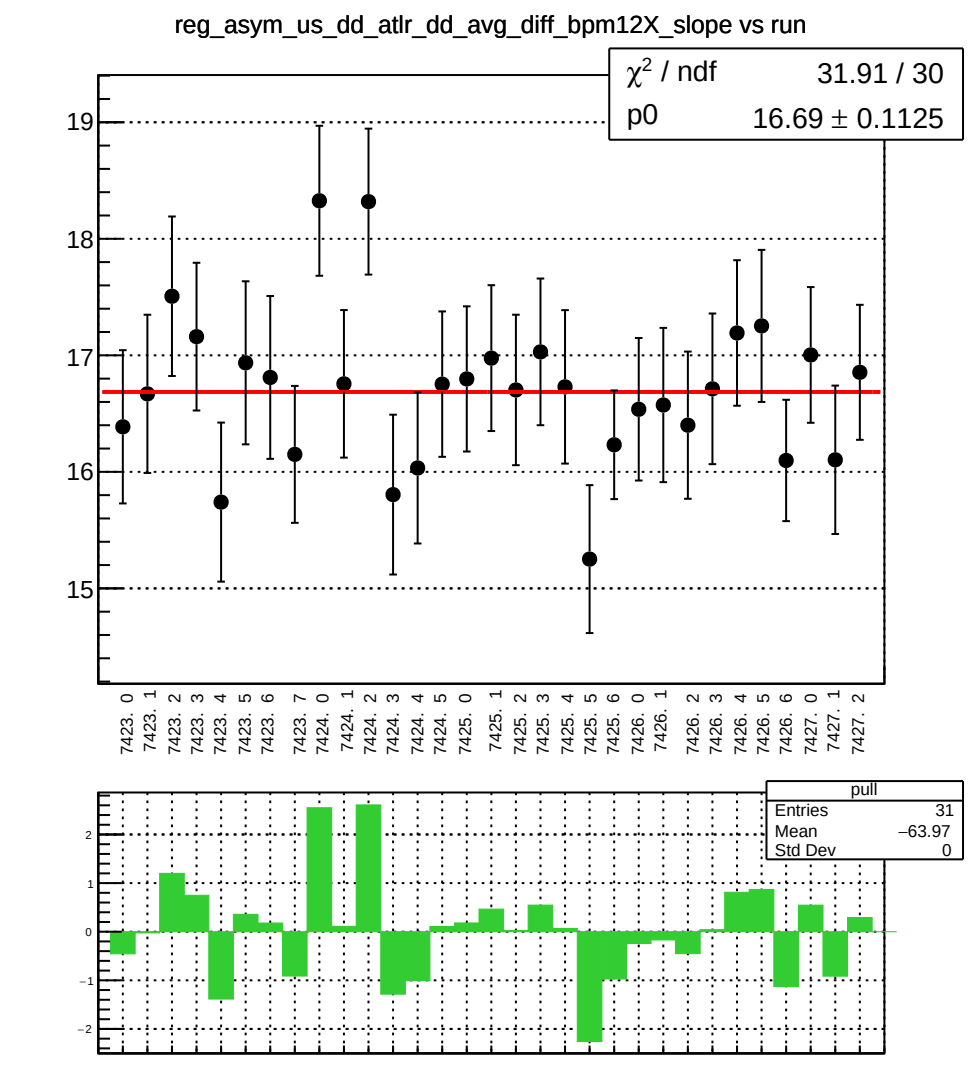

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.66 / 30
p0 12.66 ± 2.457
pull
Entries 31
Mean 122
Std Dev 0
pull1D
Entries 31
Mean 0.02915
Std Dev 0.8731

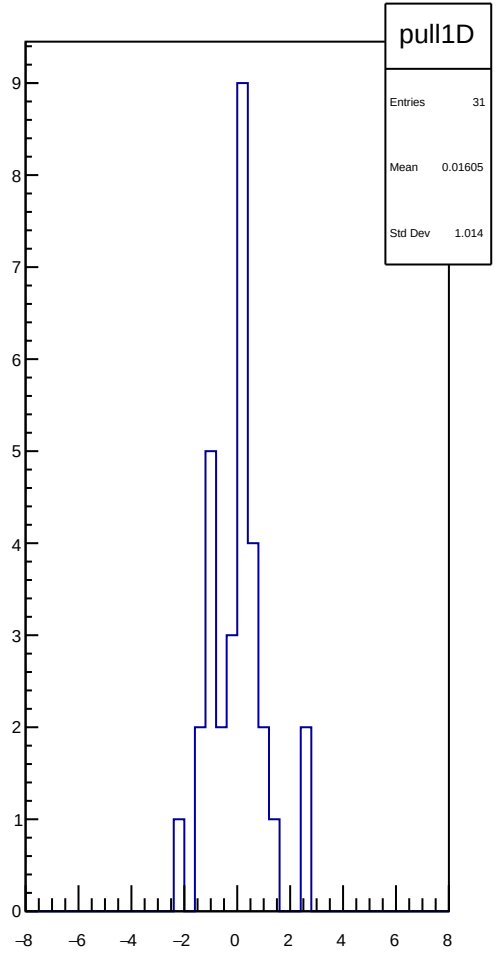

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.56 / 30
p0 −83.13 ± 2.656
−20
−40
−60
−80
−100
−120
−140
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −64.37
Std Dev 0
3
2
1
0
−1
−2
−3

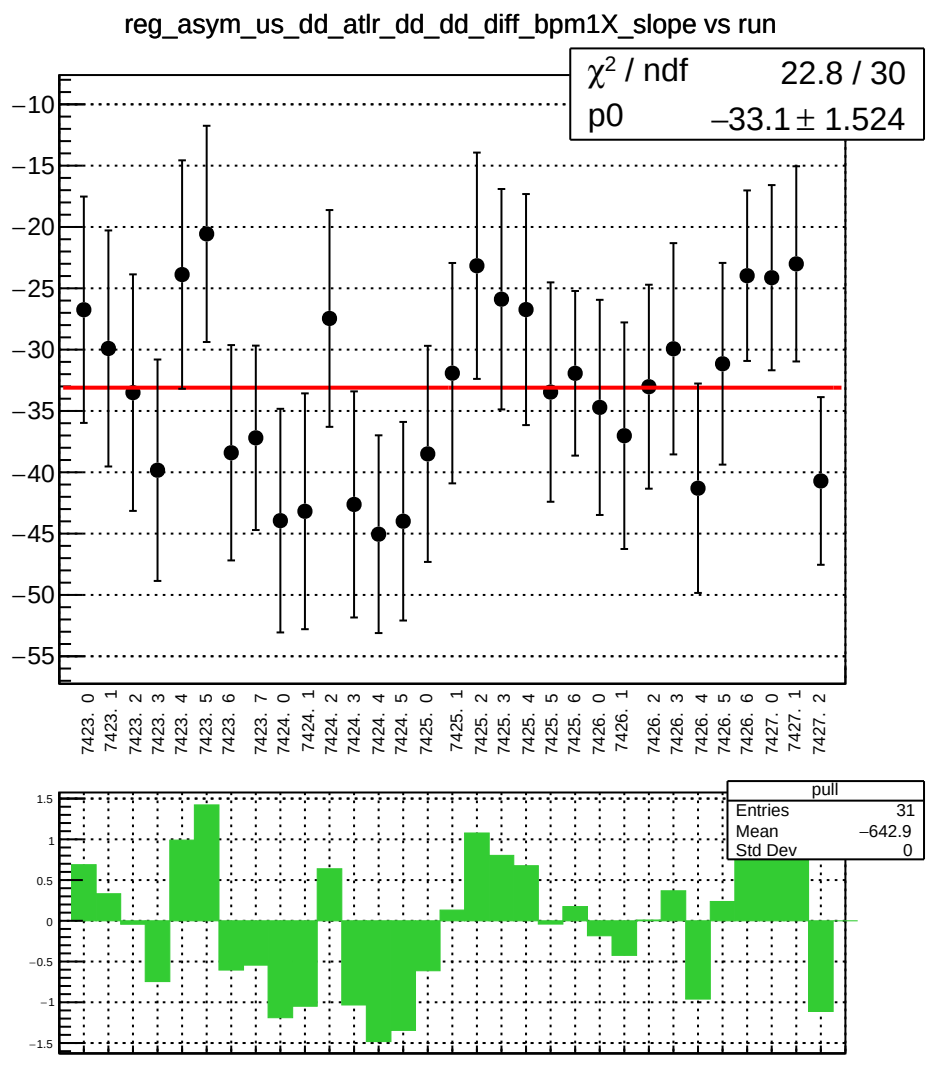

pull1D
Entries 31
Mean −0.05625
Std Dev 1.373
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

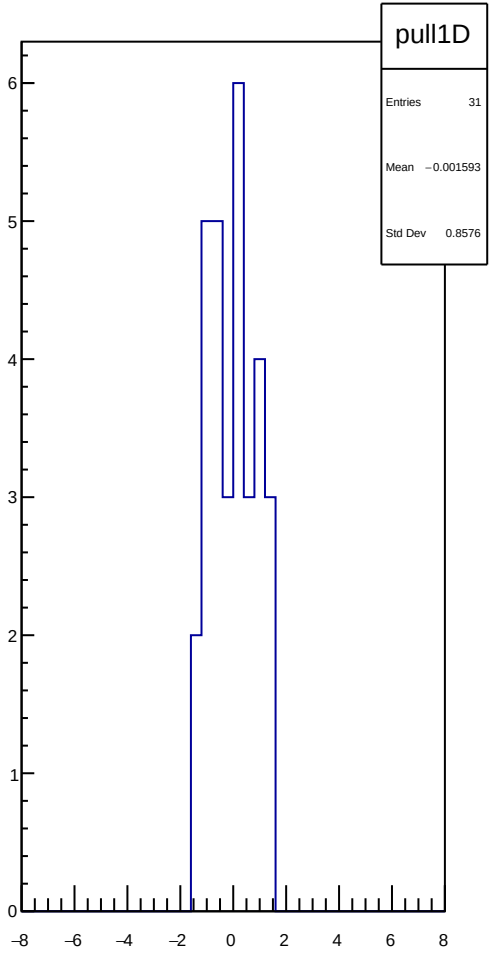

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.81 / 30
p0 −15.26 ± 2.613
pull
Entries 31
Mean 130.3
Std Dev 0

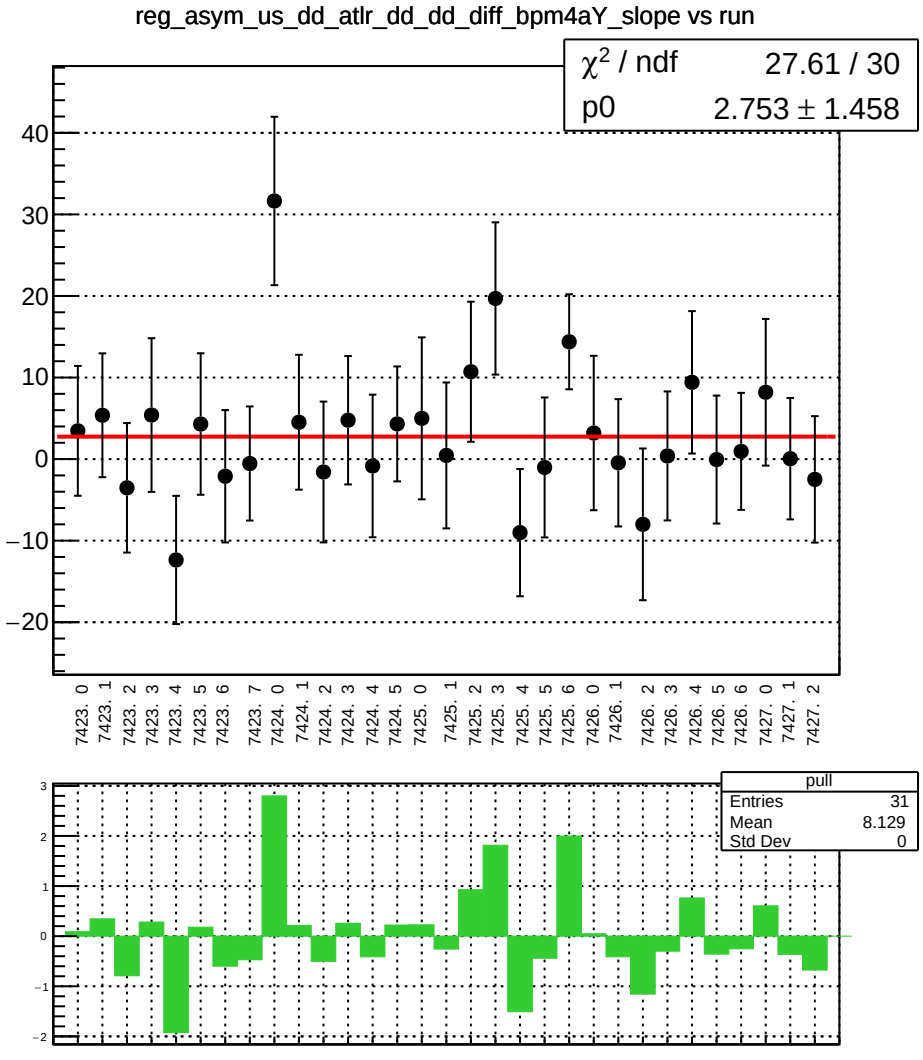

pull1D
Entries 31
Mean −0.02222
Std Dev 0.8576

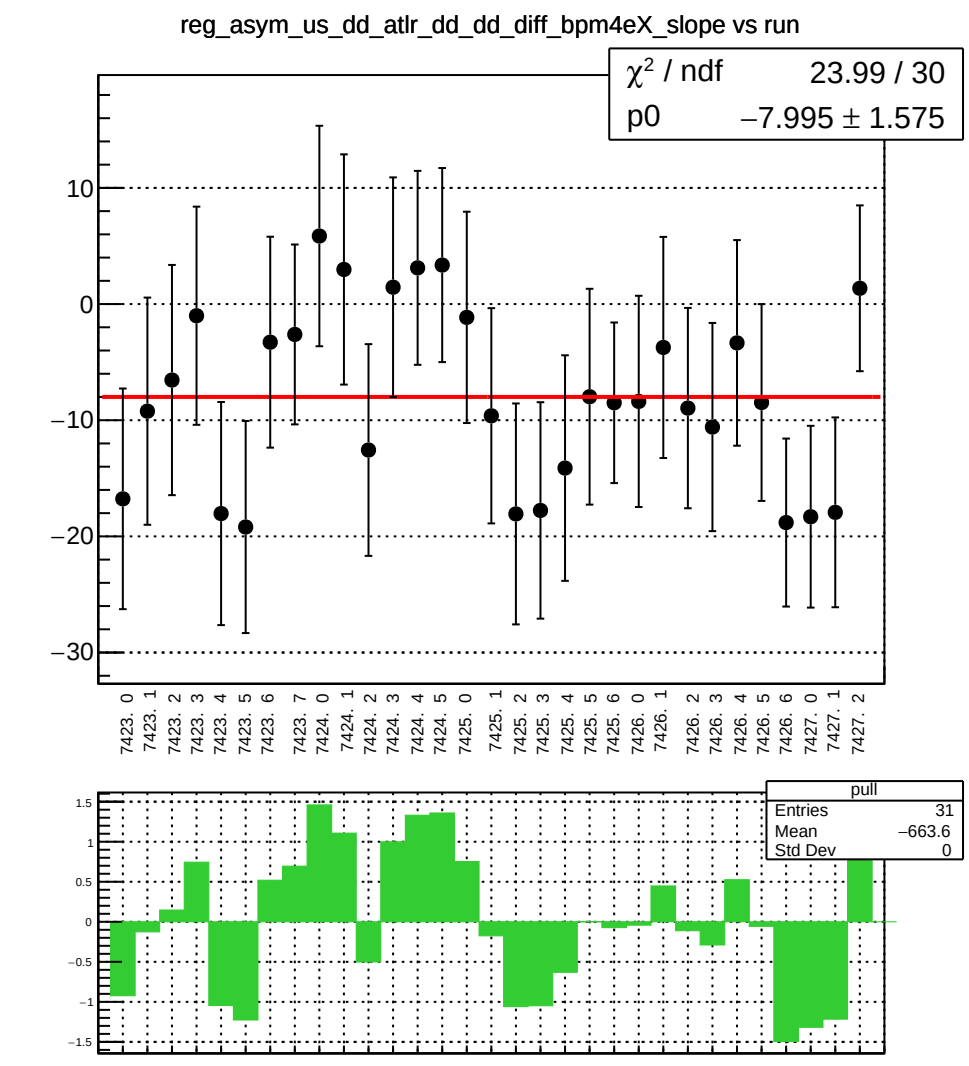

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 31.91 / 30
p0 16.69 ± 0.1125
19
18
17
16
15
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −63.97
Std Dev 0
2
1
0
−1
−2

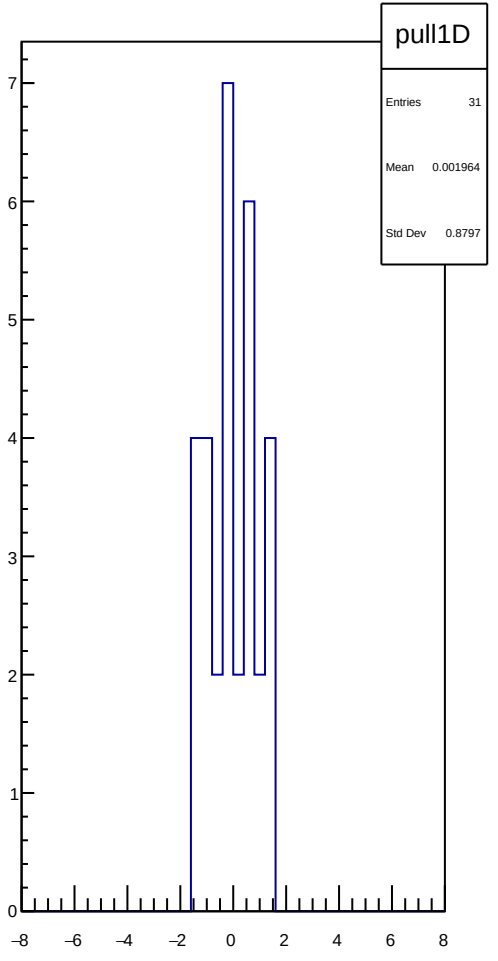

pull1D
Entries 31
Mean 0.01605
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

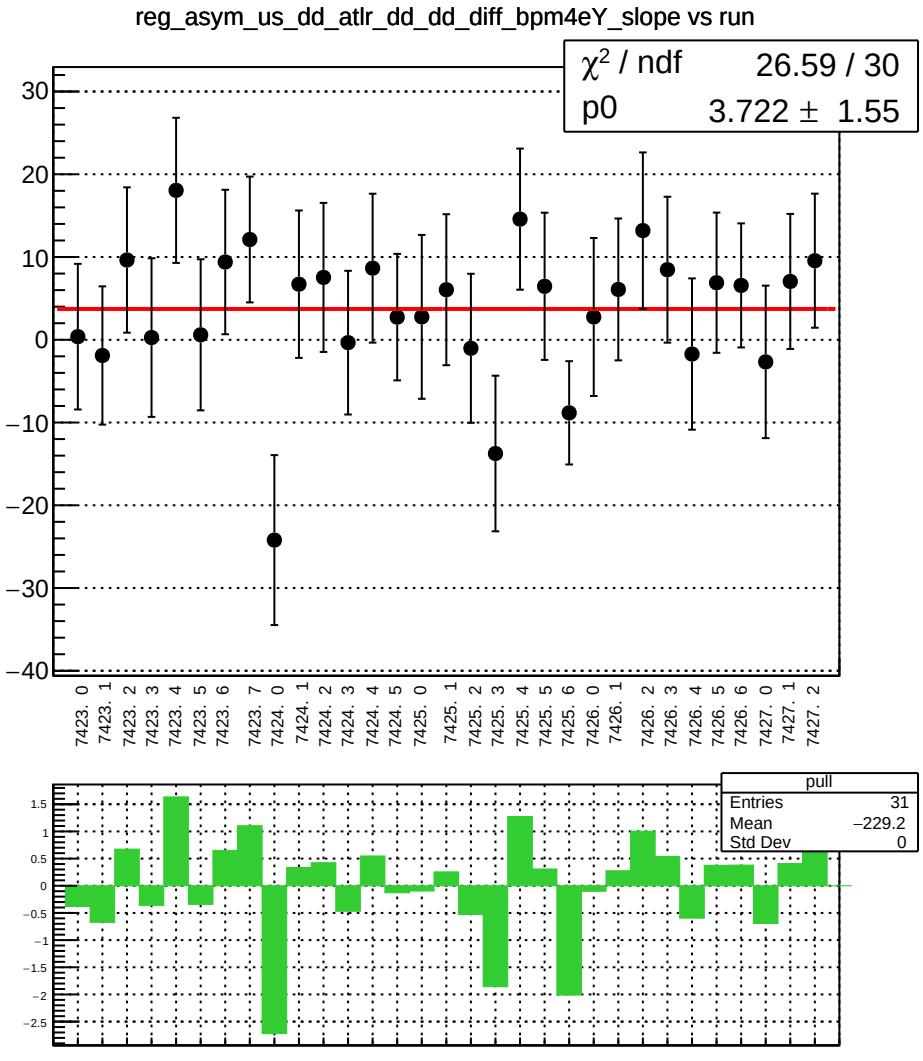

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 22.8 / 30
p0 −33.1 ± 1.524
−10
−15
−20
−25
−30
−35
−40
−45
−50
−55
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −642.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

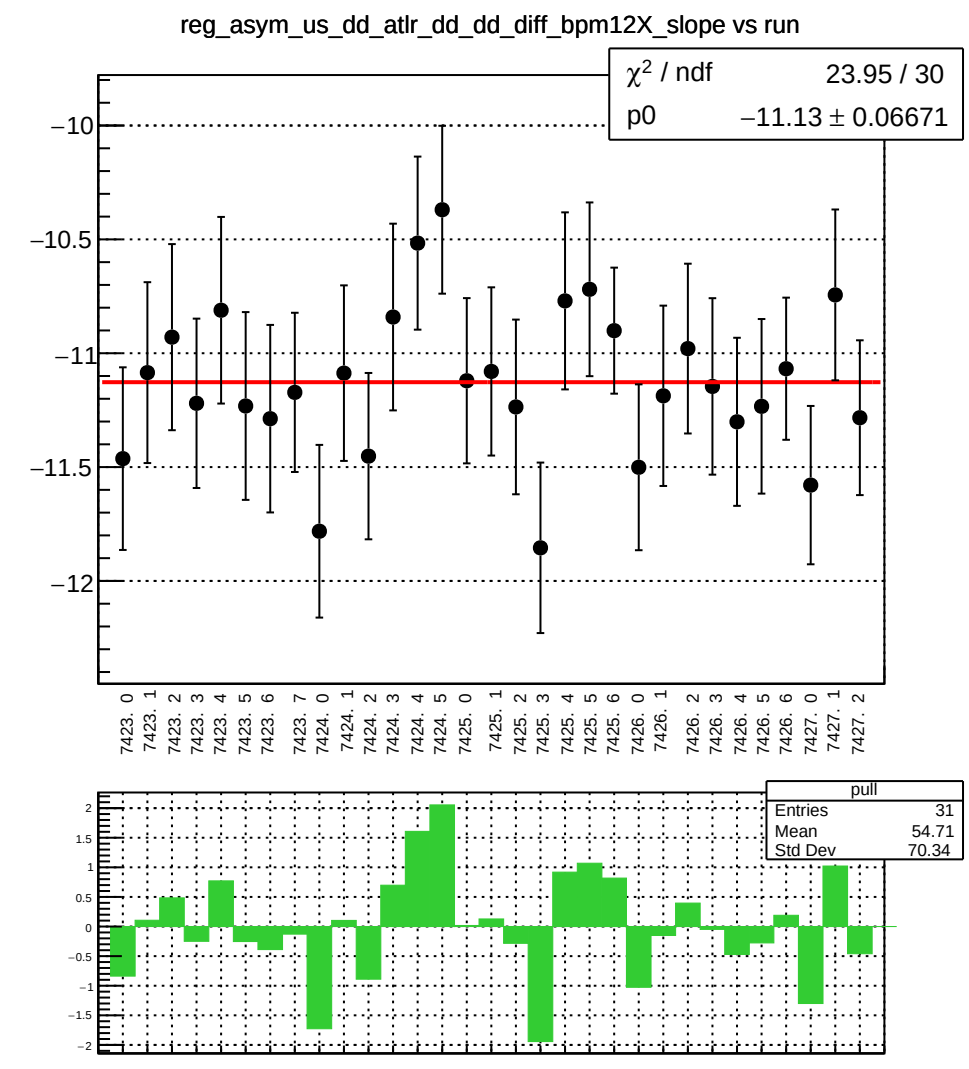

pull1D
Entries 31
Mean −0.001593
Std Dev 0.8576
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

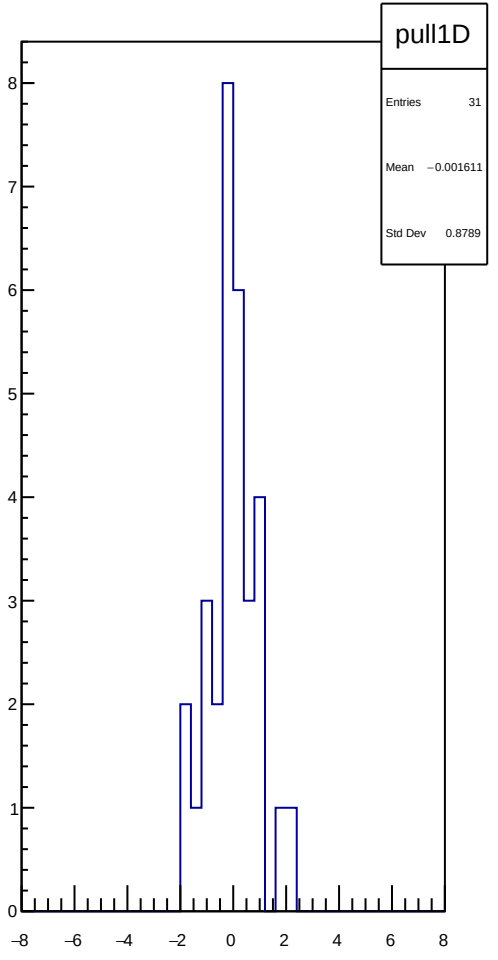

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.61 / 30
p0 2.753 ± 1.458
pull
Entries 31
Mean 8.129
Std Dev 0
pull1D
Entries 31
Mean 0.01113
Std Dev 0.9436

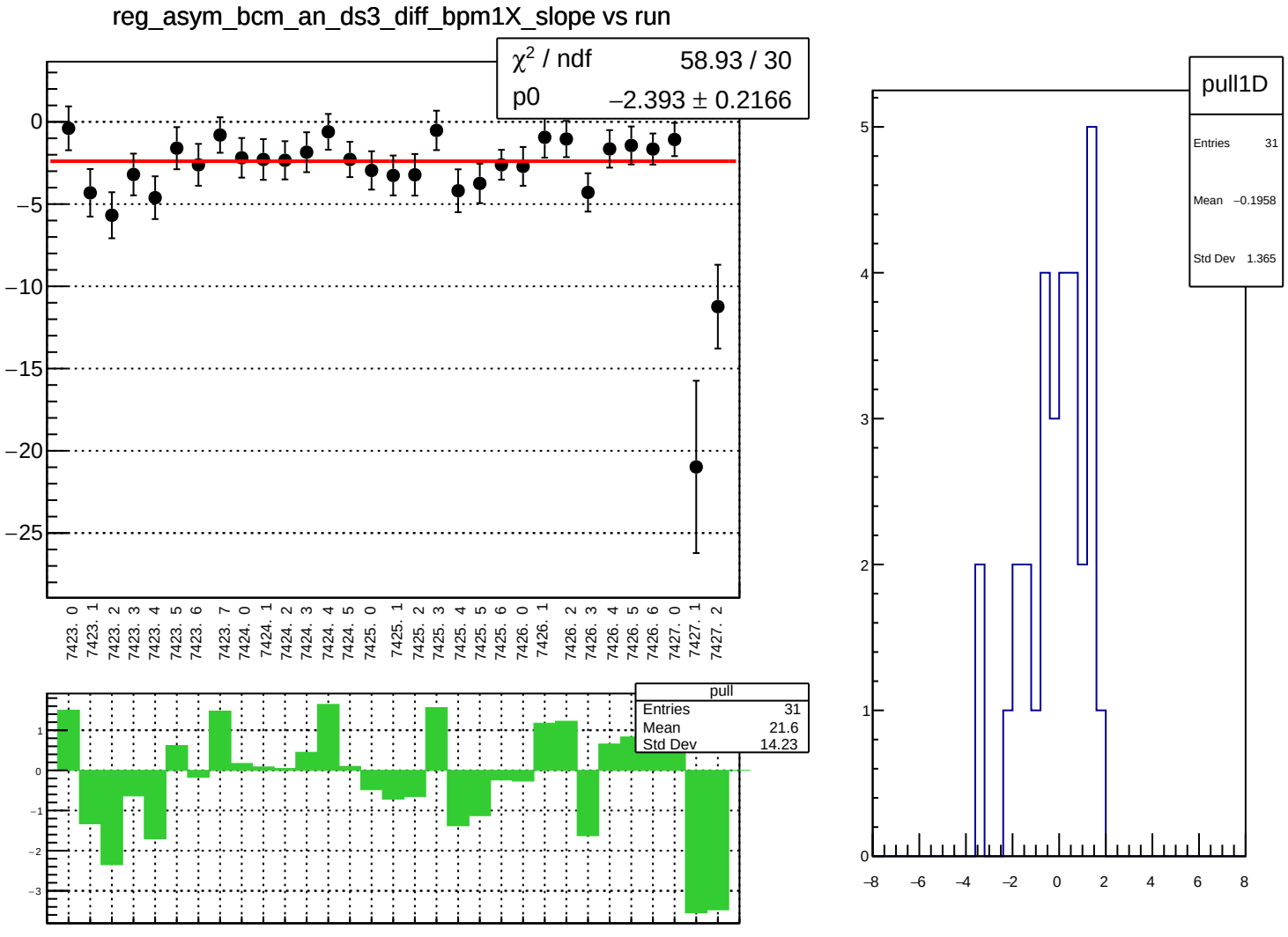

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.99 / 30
p0 −7.995 ± 1.575
10
0
−10
−20
−30
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −663.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

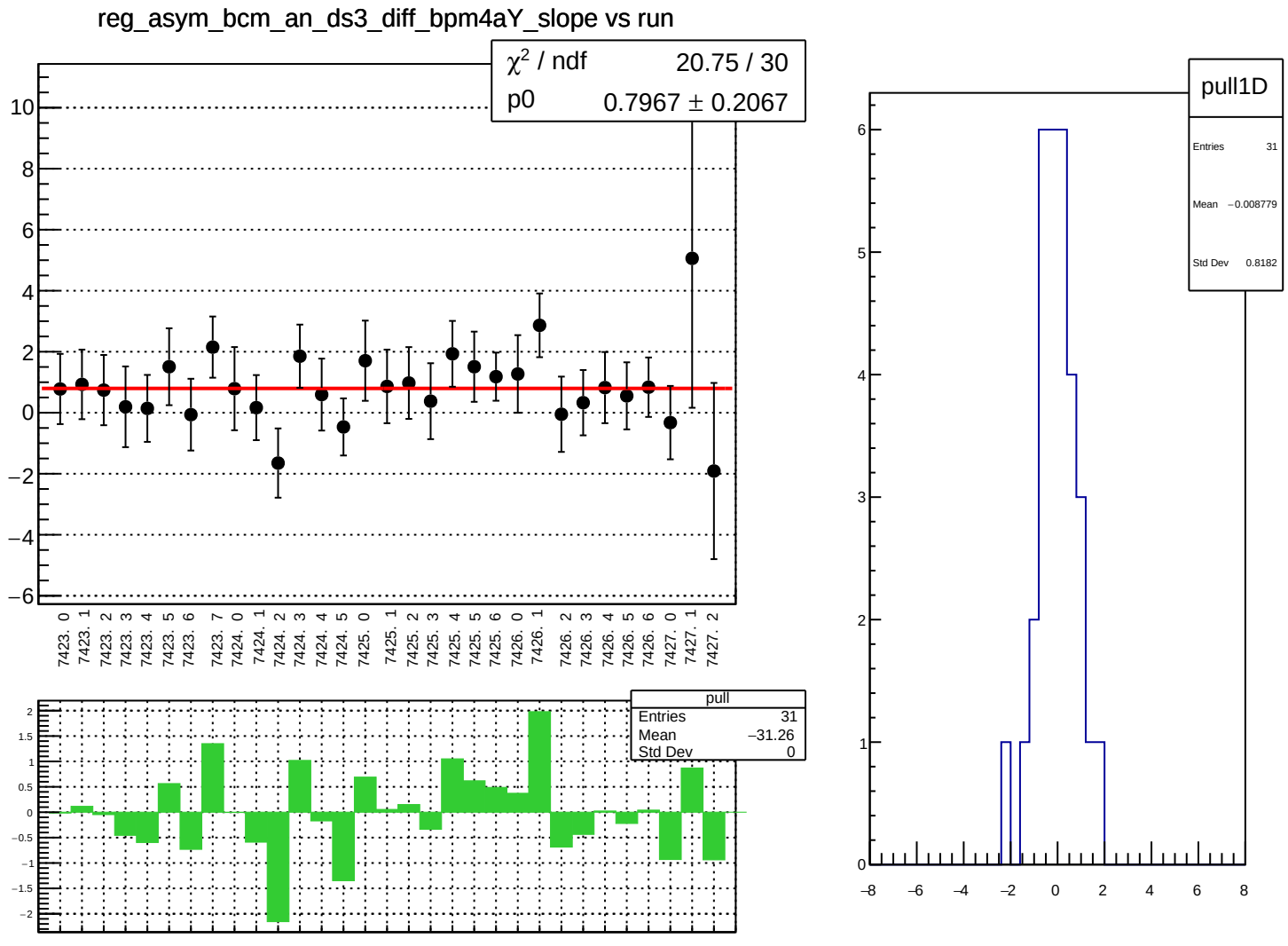

pull1D
Entries 31
Mean 0.001964
Std Dev 0.8797
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

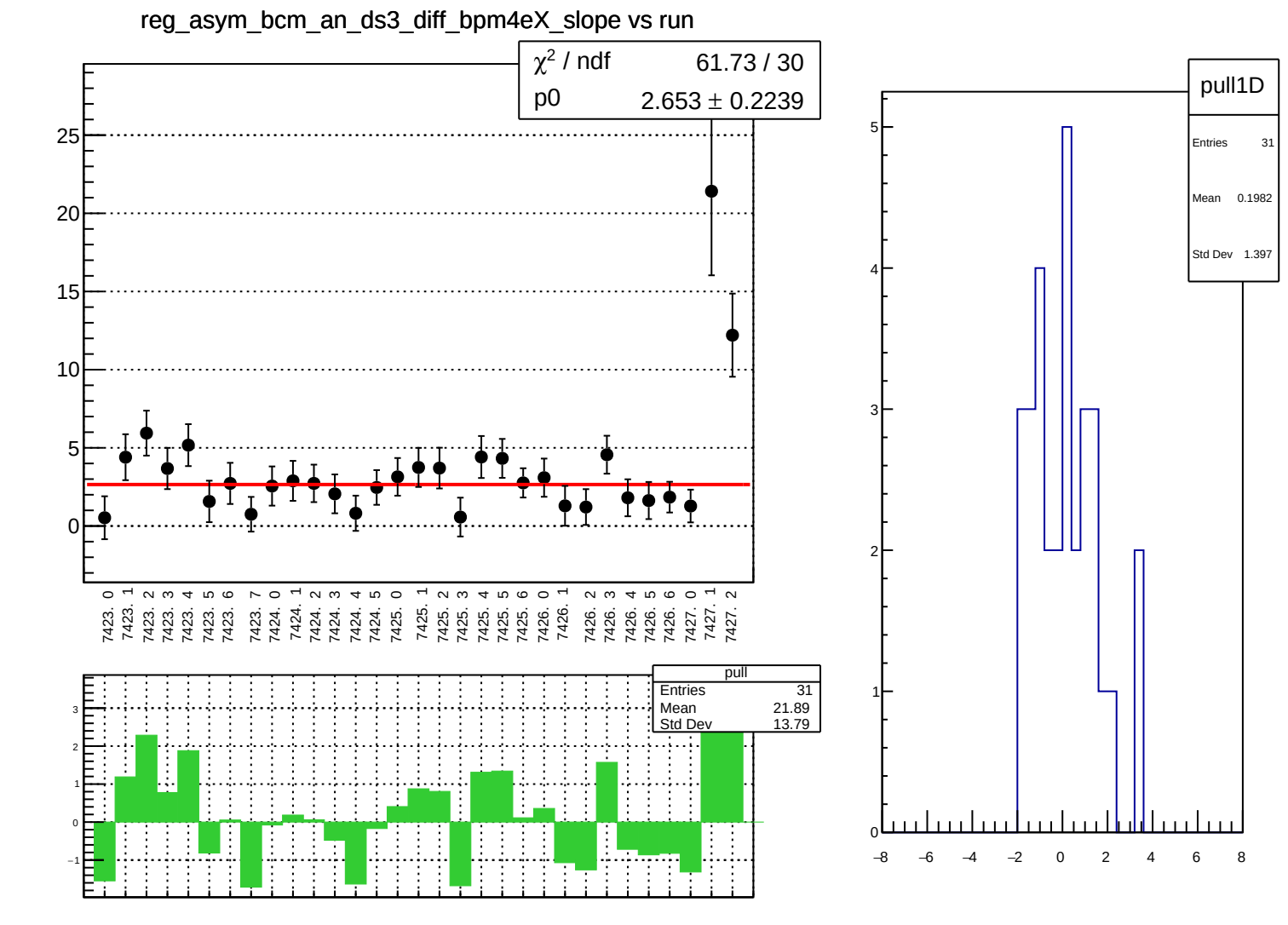

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.59 / 30
p0 3.722 ± 1.55
pull
Entries 31
Mean −229.2
Std Dev 0
pull1D
Entries 31
Mean −0.001593
Std Dev 0.9262

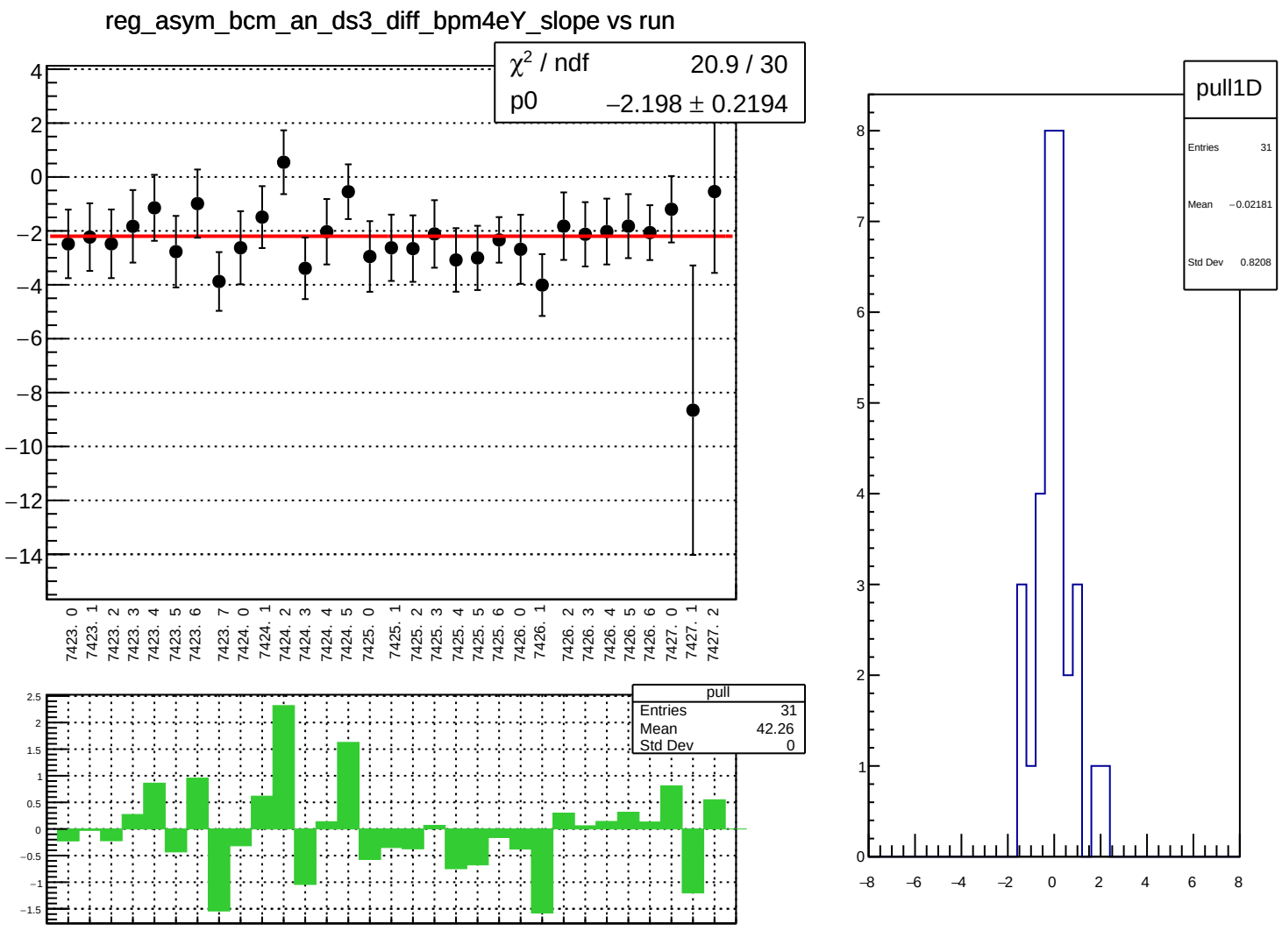

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 23.95 / 30
p0 −11.13 ± 0.06671
−10
−10.5
−11
−11.5
−12
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 54.71
Std Dev 70.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

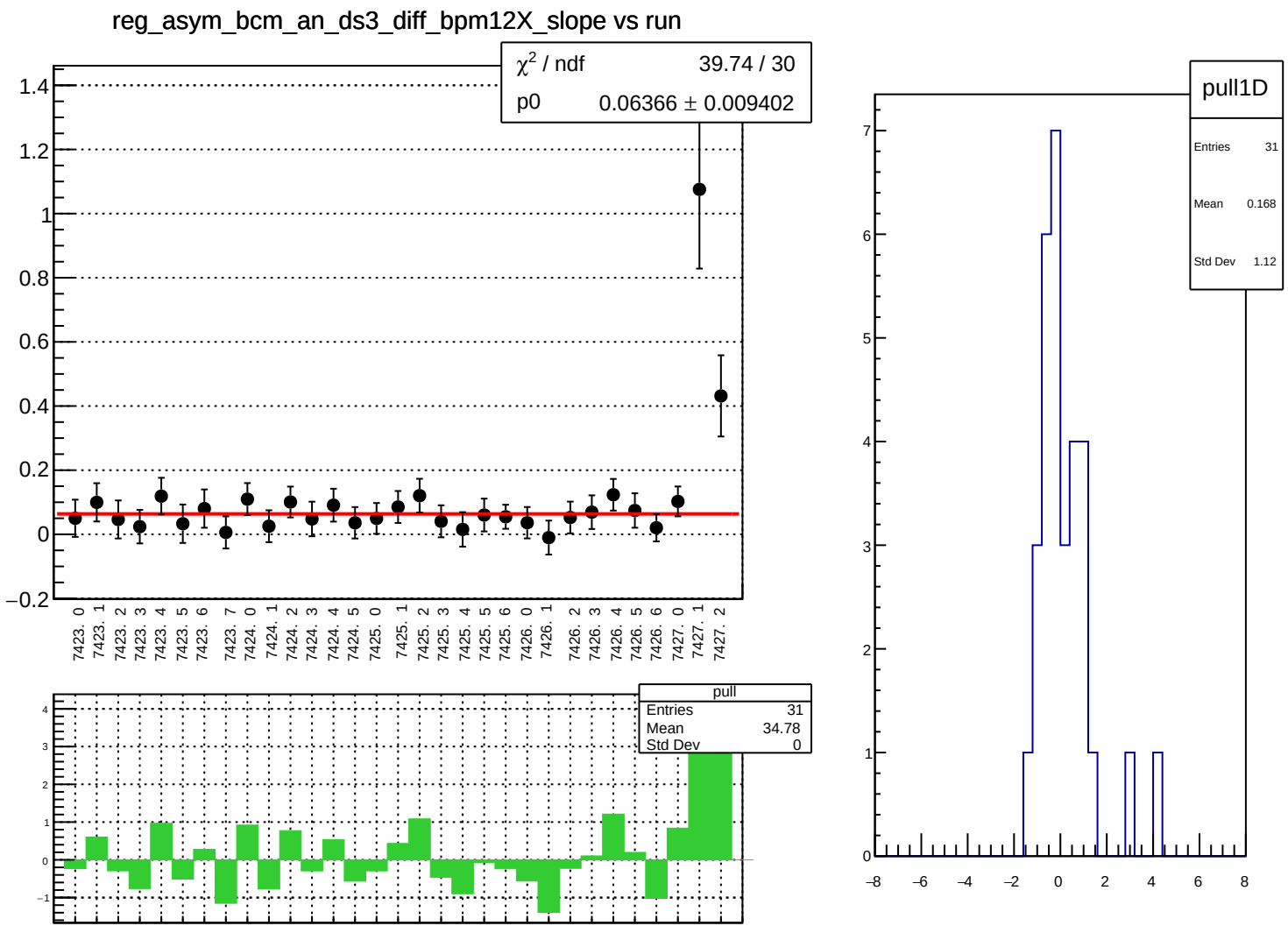

pull1D
Entries 31
Mean −0.001611
Std Dev 0.8789
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

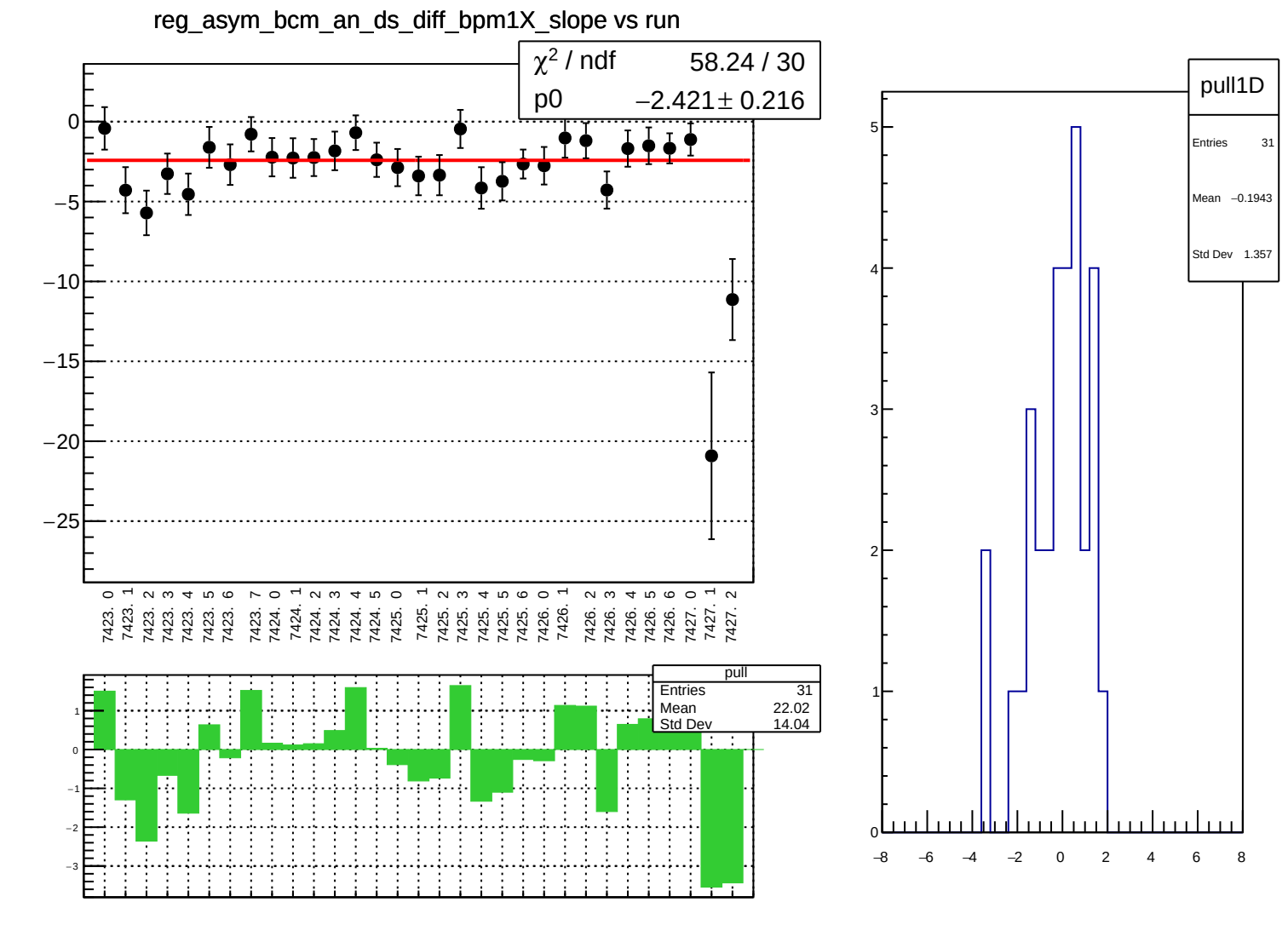

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 58.93 / 30
p0 −2.393 ± 0.2166
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 21.6
Std Dev 14.23
pull1D
Entries 31
Mean −0.1958
Std Dev 1.365

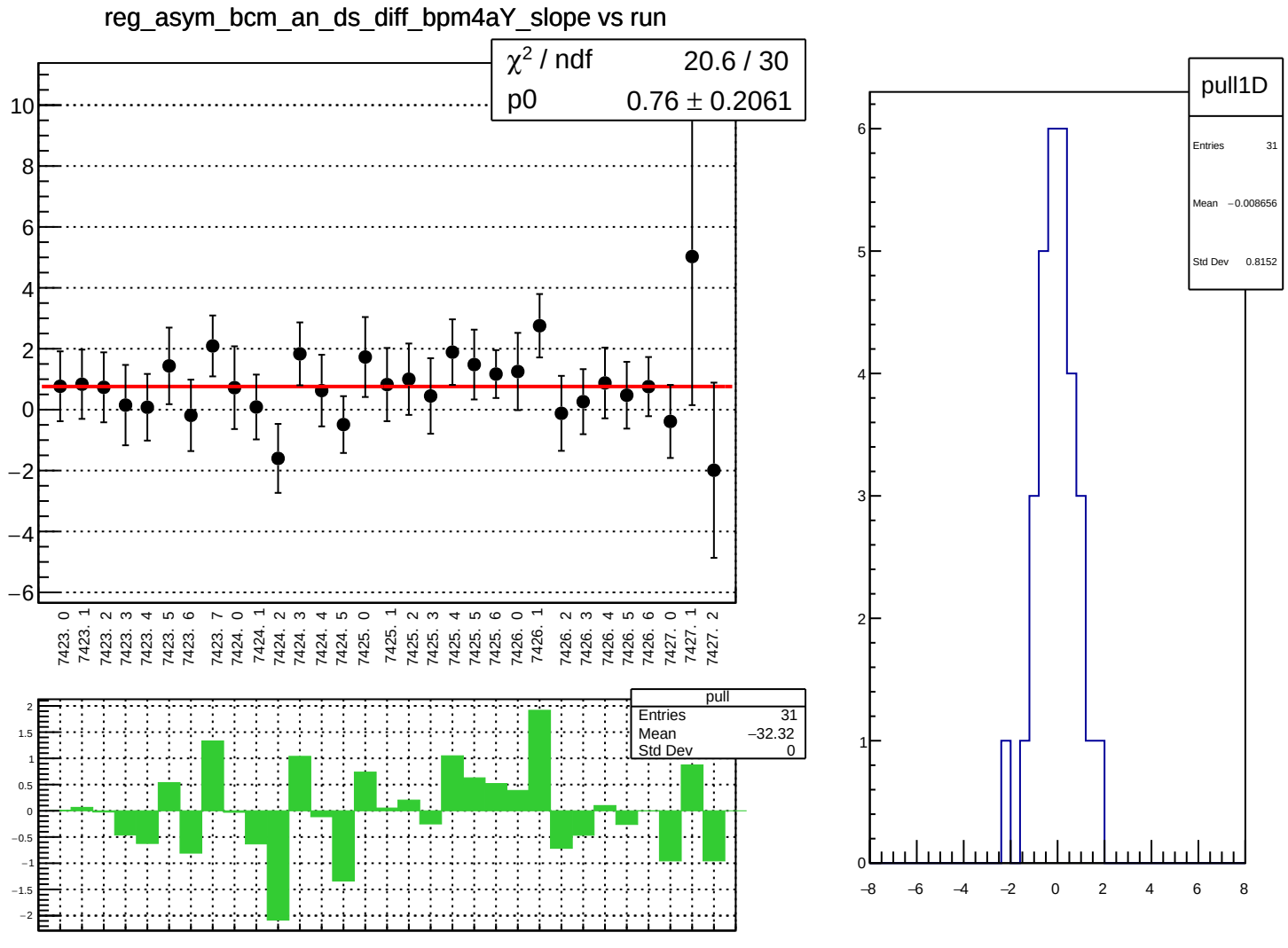

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 20.75 / 30
p0 0.7967 ± 0.2067
pull
Entries 31
Mean −31.26
Std Dev 0
pull1D
Entries 31
Mean −0.008779
Std Dev 0.8182

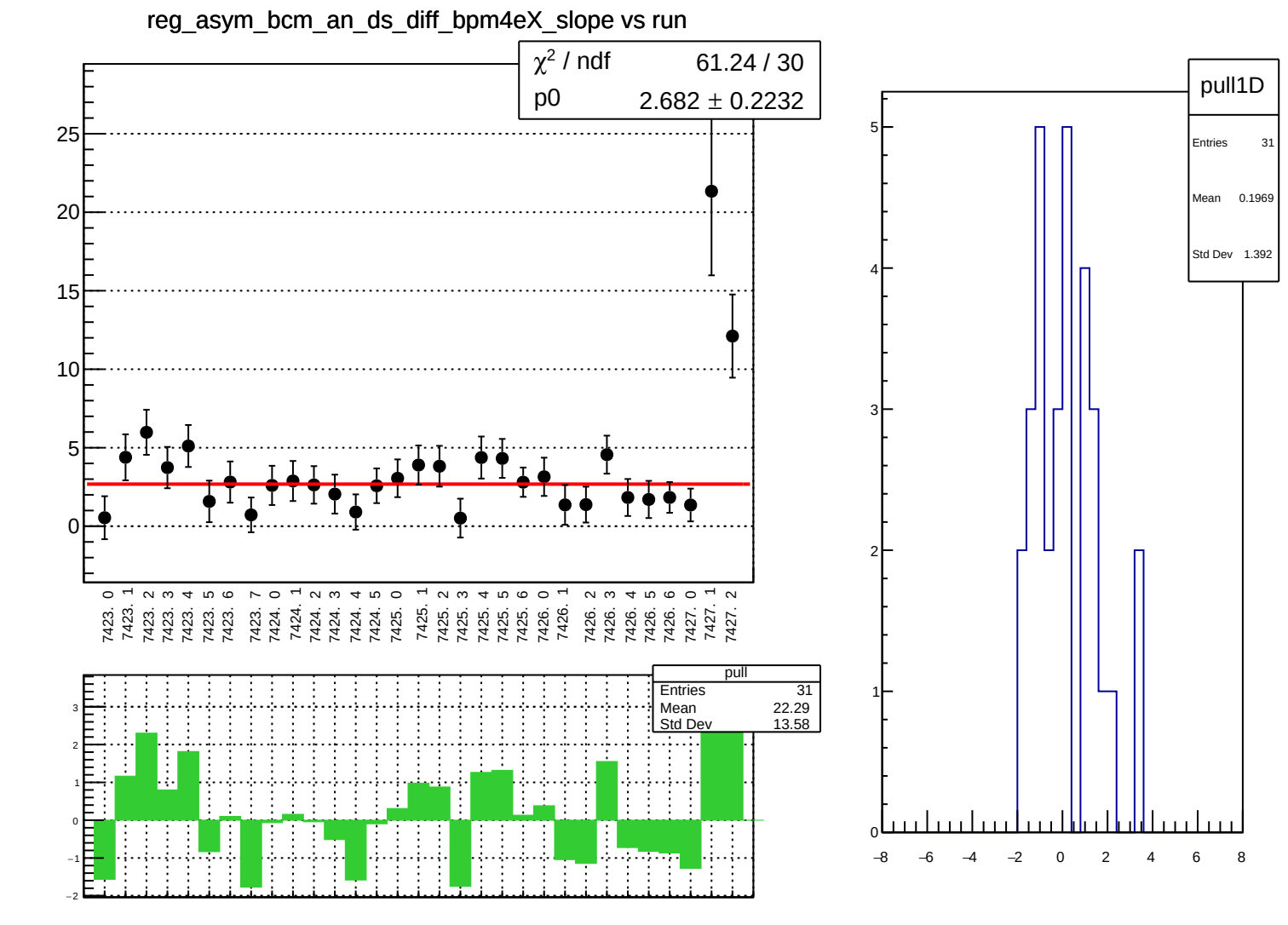

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 61.73 / 30
p0 2.653 ± 0.2239
pull
Entries 31
Mean 21.89
Std Dev 13.79
pull1D
Entries 31
Mean 0.1982
Std Dev 1.397

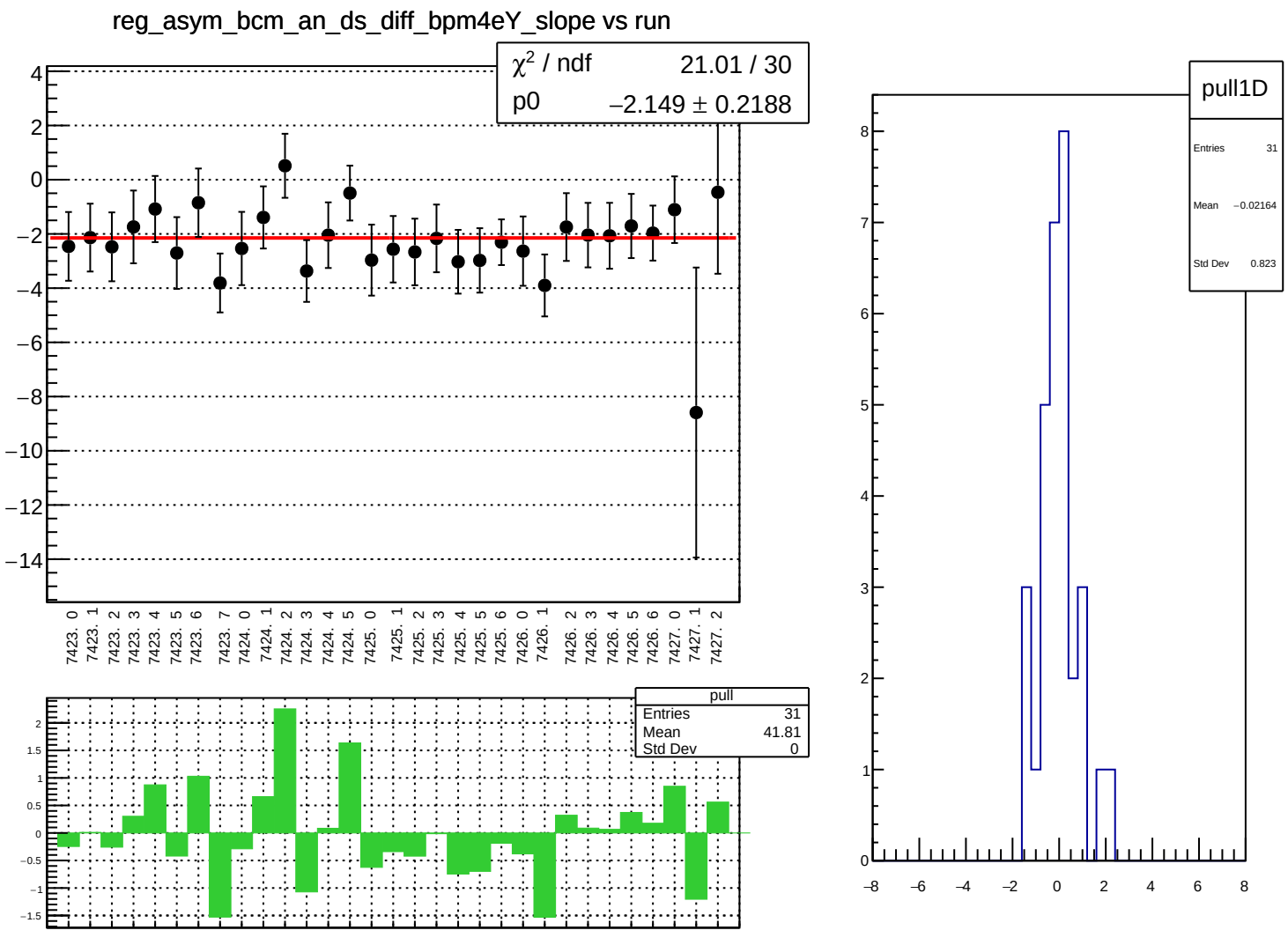

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 20.9 / 30
p0 −2.198 ± 0.2194
pull
Entries 31
Mean 42.26
Std Dev 0
pull1D
Entries 31
Mean −0.02181
Std Dev 0.8208

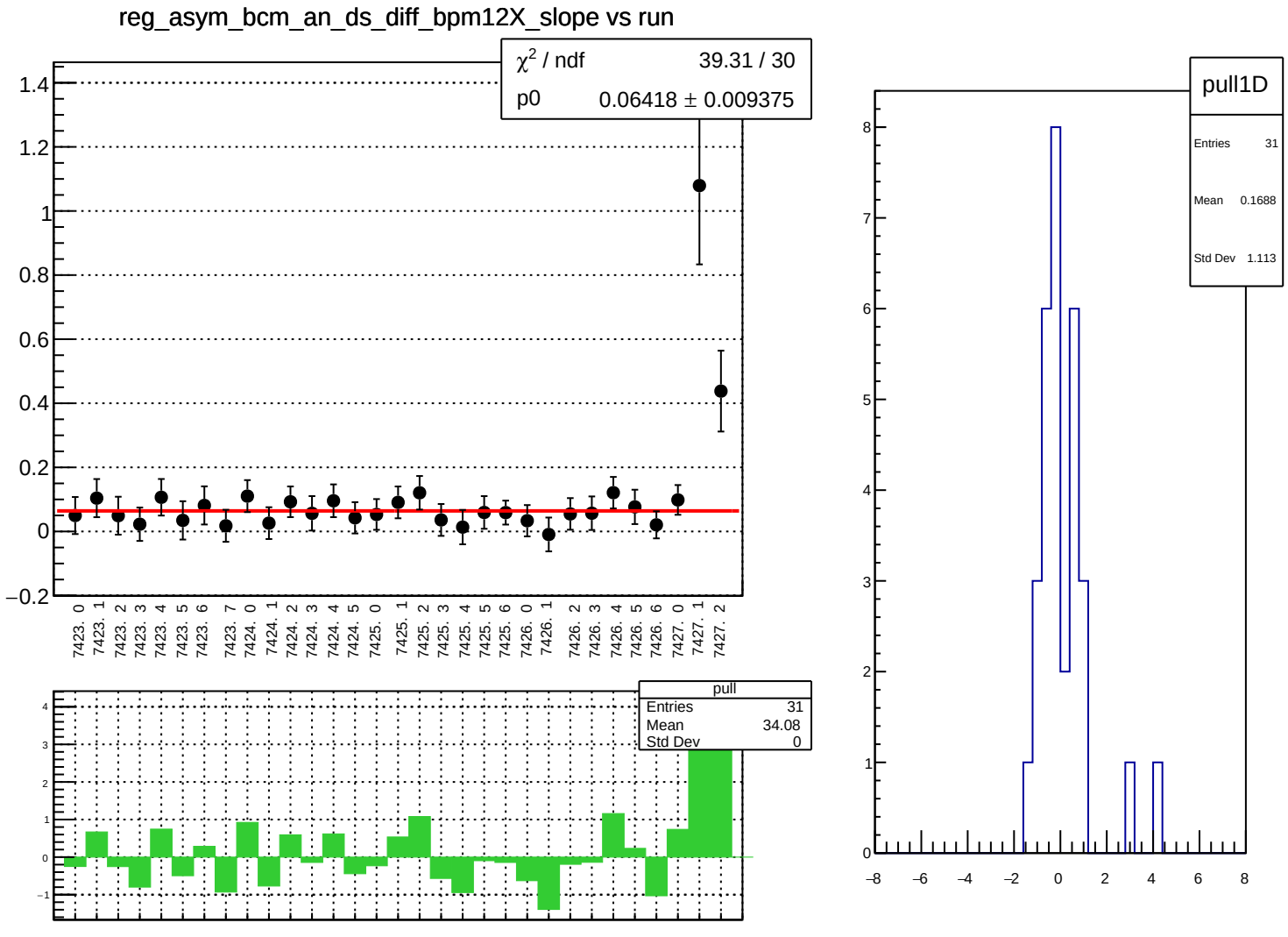

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 39.74 / 30
p0 0.06366 ± 0.009402
pull
Entries 31
Mean 34.78
Std Dev 0
pull1D
Entries 31
Mean 0.168
Std Dev 1.12

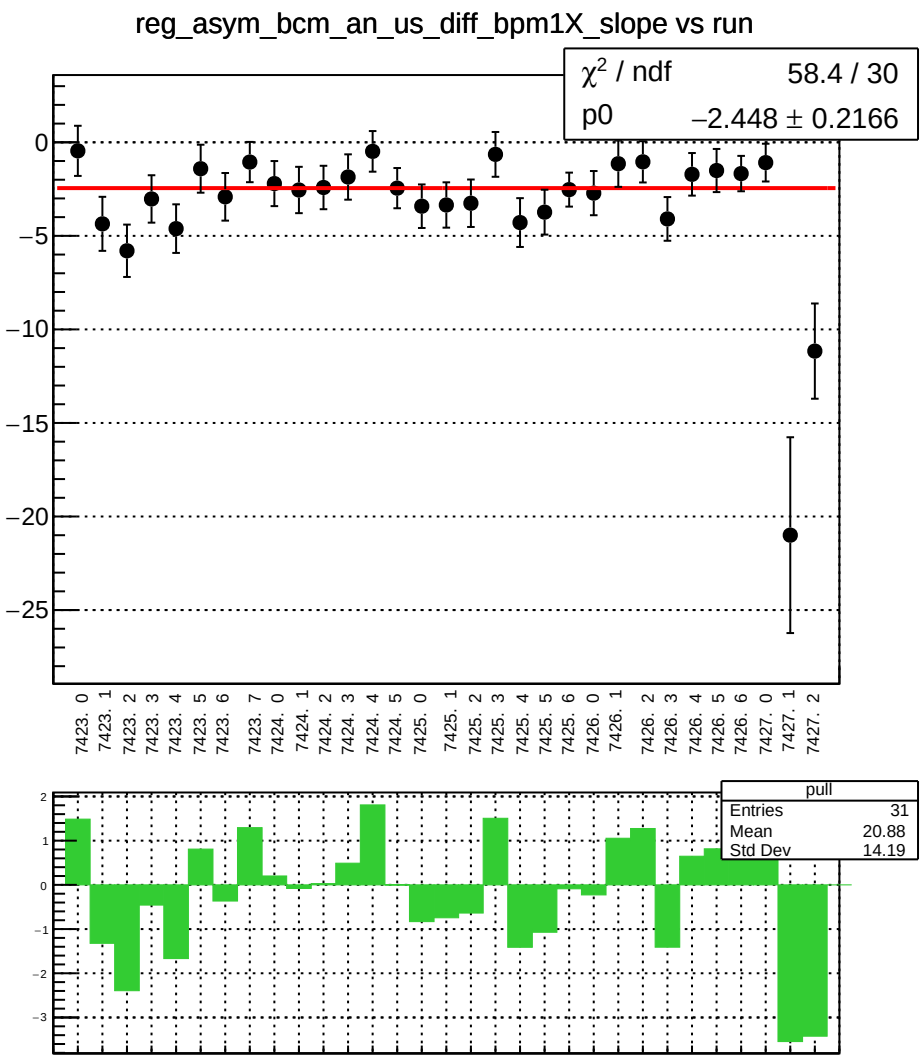

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 58.24 / 30
p0 −2.421 ± 0.216
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 22.02
Std Dev 14.04
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.1943
Std Dev 1.357
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

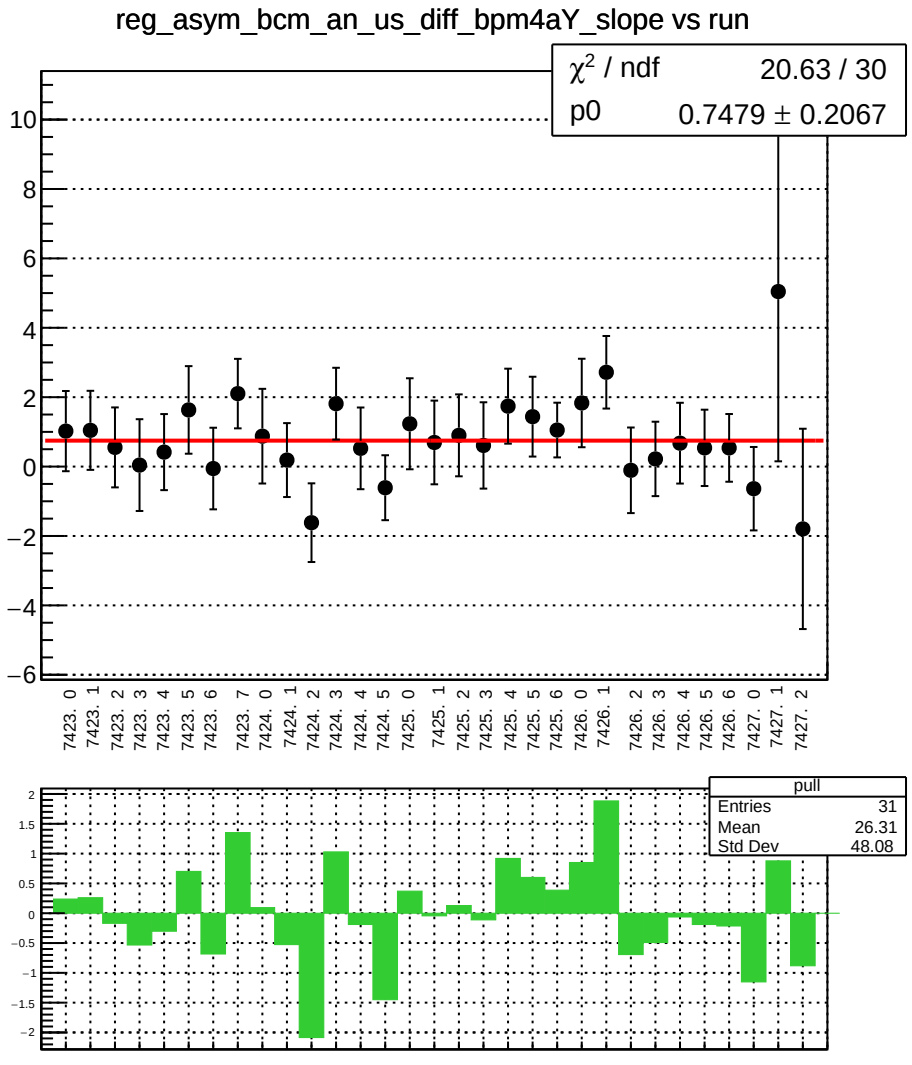

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 20.6 / 30
p0 0.76 ± 0.2061
10
8
6
4
2
0
−2
−4
−6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −32.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.008656
Std Dev 0.8152
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

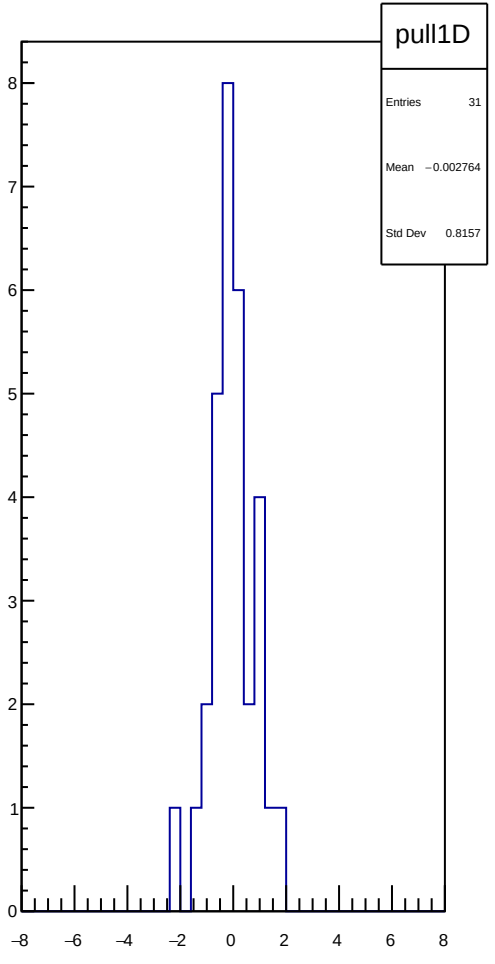

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 61.24 / 30
p0 2.682 ± 0.2232
pull
Entries 31
Mean 22.29
Std Dev 13.58
pull1D
Entries 31
Mean 0.1969
Std Dev 1.392

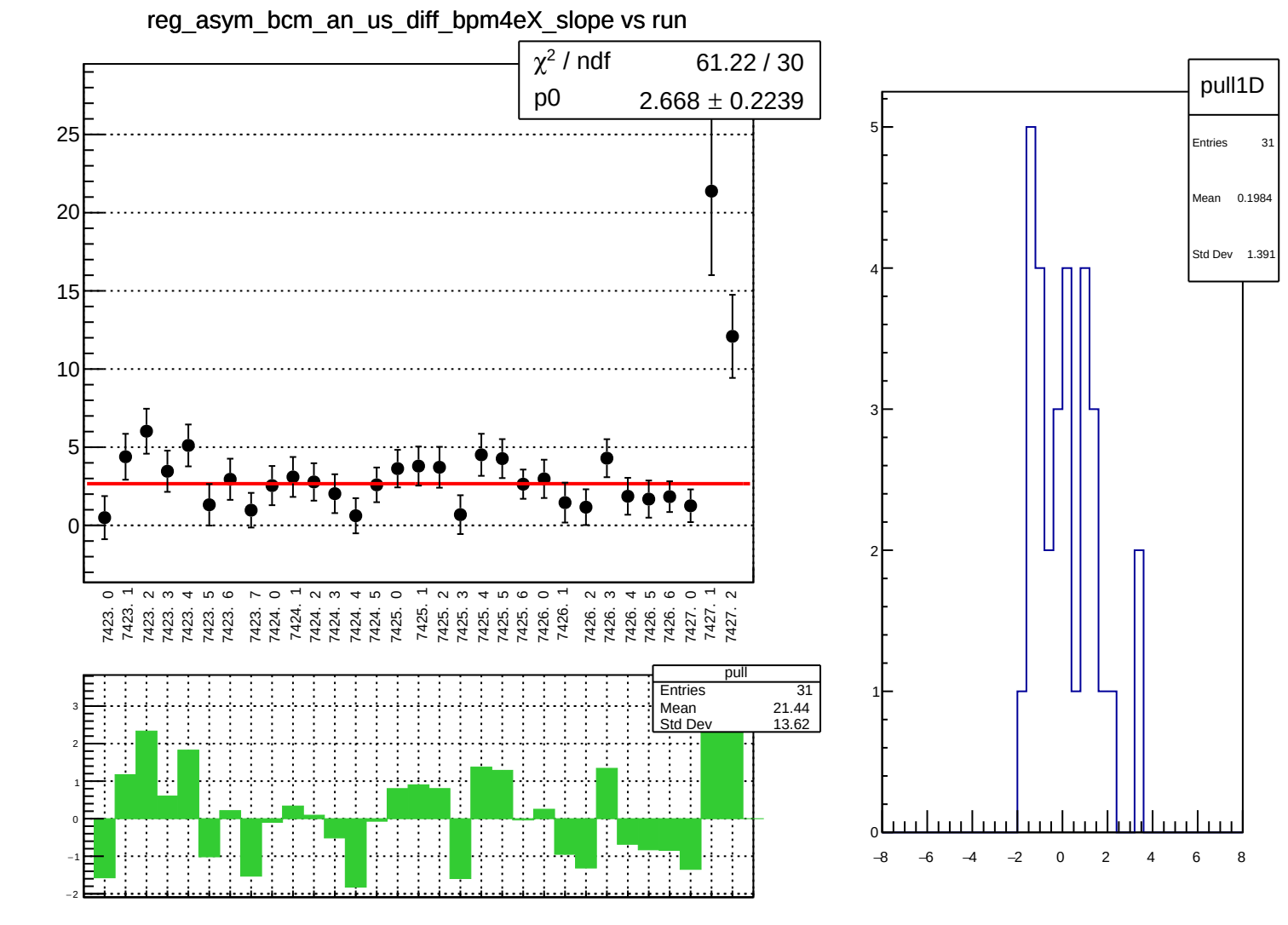

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 21.01 / 30
p0 −2.149 ± 0.2188
4
2
0
−2
−4
−6
−8
−10
−12
−14
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 41.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.02164
Std Dev 0.823
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

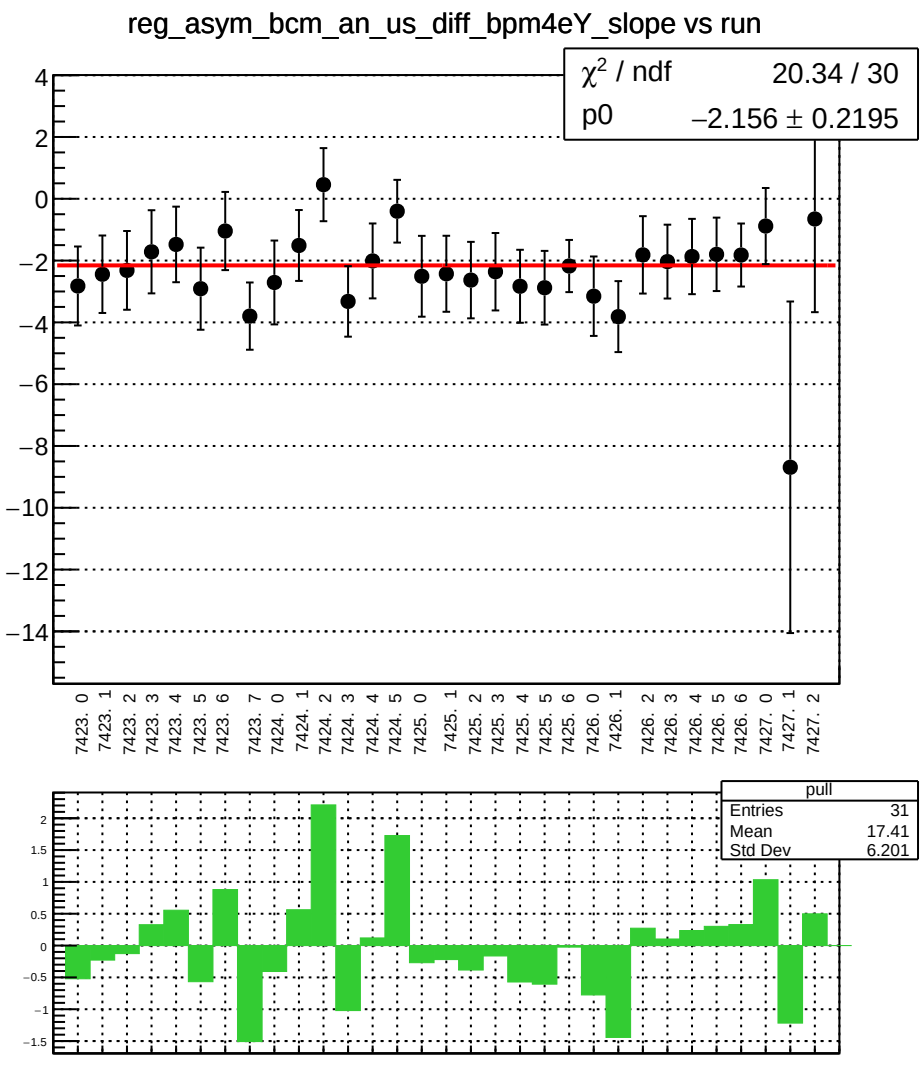

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 39.31 / 30
p0 0.06418 ± 0.009375
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 34.08
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 31
Mean 0.1688
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

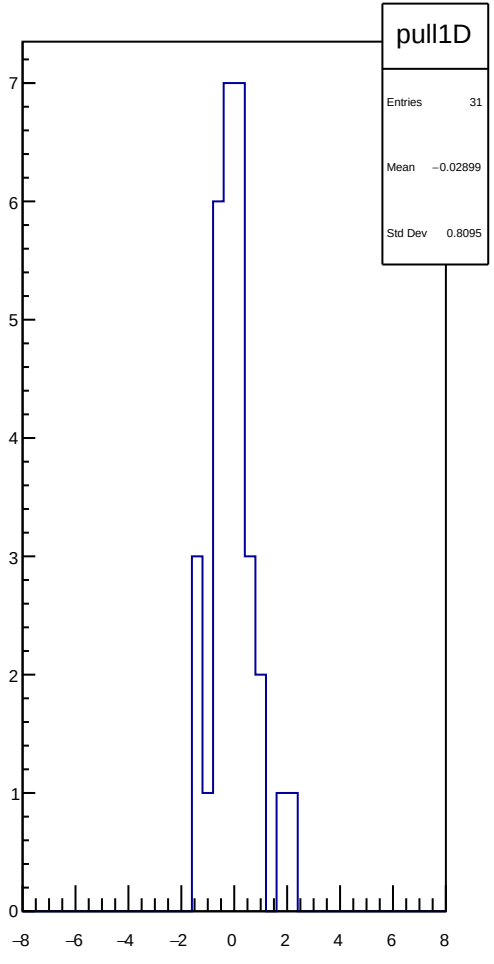

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 58.4 / 30
p0 −2.448 ± 0.2166
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 20.88
Std Dev 14.19
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.1965
Std Dev 1.358
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

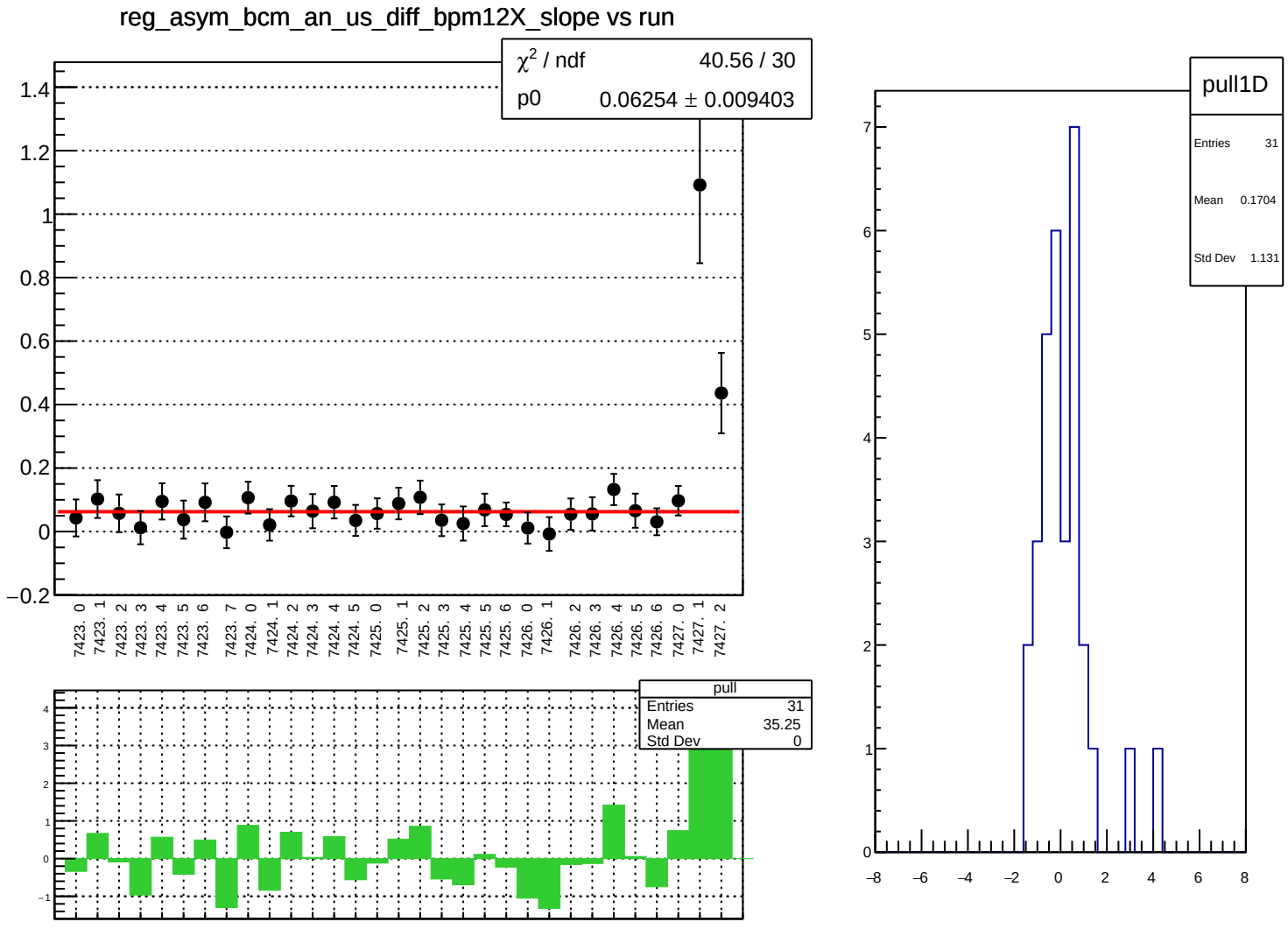

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 20.63 / 30
p0 0.7479 ± 0.2067
pull
Entries 31
Mean 26.31
Std Dev 48.08

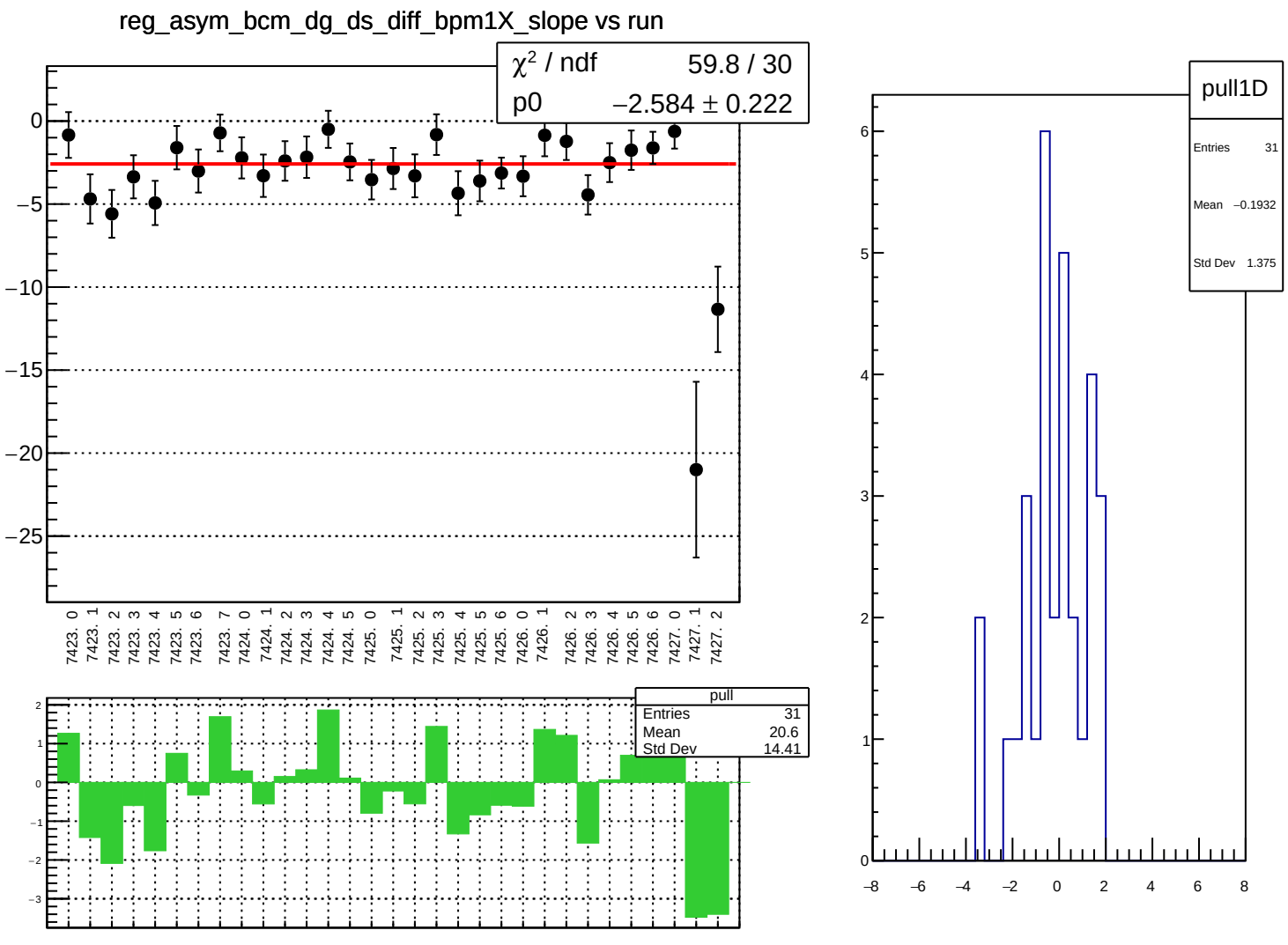

pull1D
Entries 31
Mean −0.002764
Std Dev 0.8157

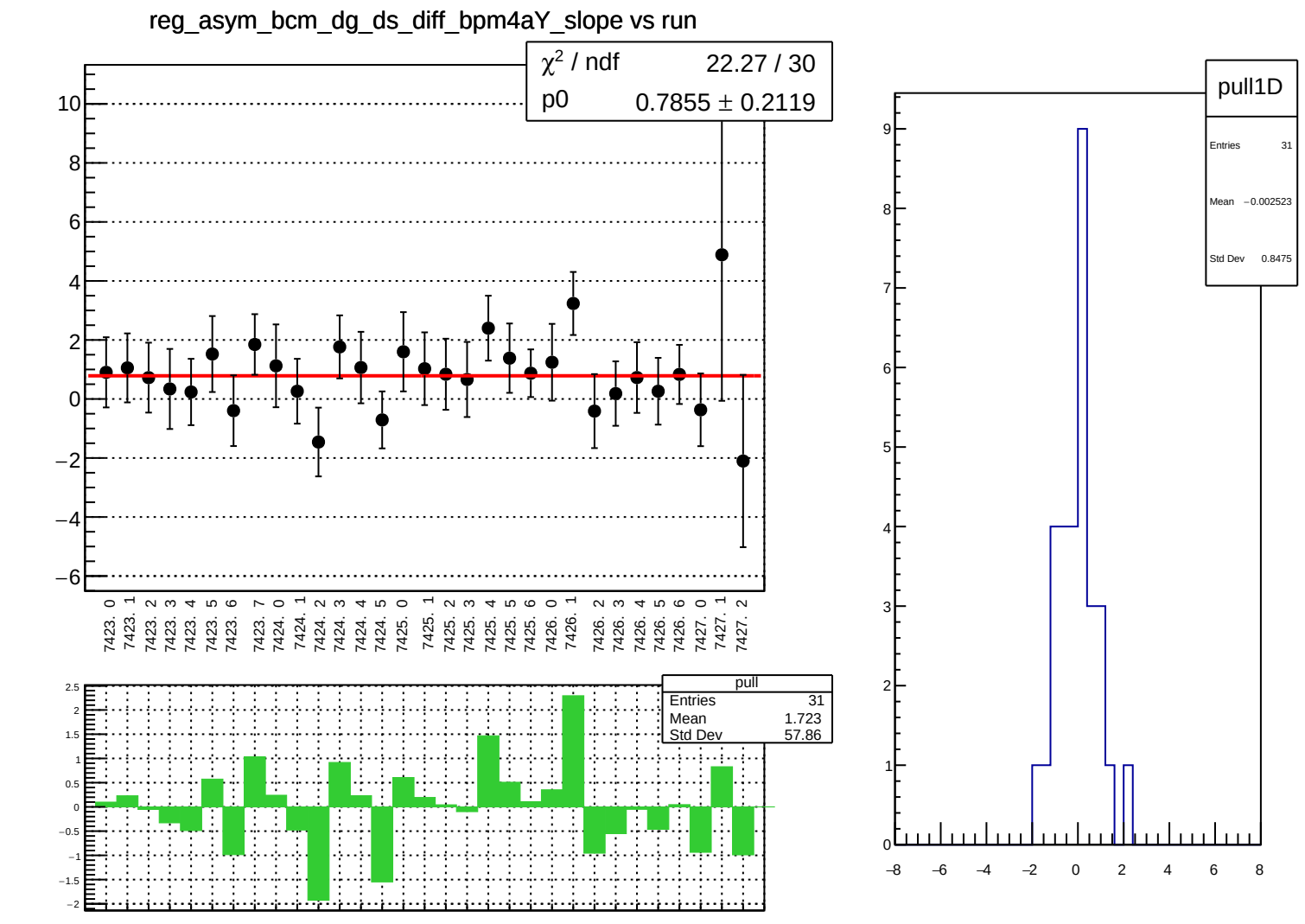

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 61.22 / 30
p0 2.668 ± 0.2239
pull
Entries 31
Mean 21.44
Std Dev 13.62
pull1D
Entries 31
Mean 0.1984
Std Dev 1.391

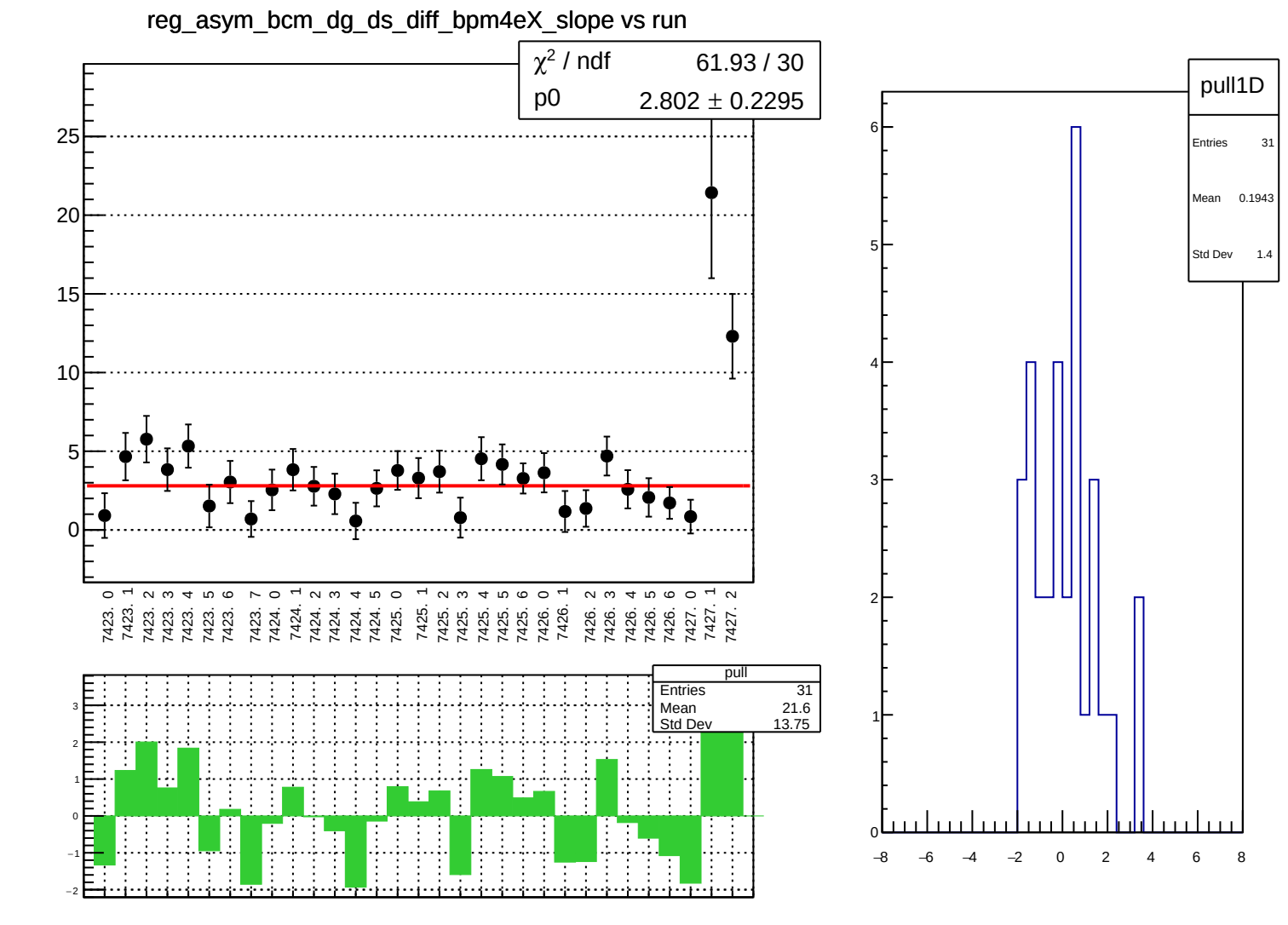

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 20.34 / 30
p0 −2.156 ± 0.2195
pull
Entries 31
Mean 17.41
Std Dev 6.201

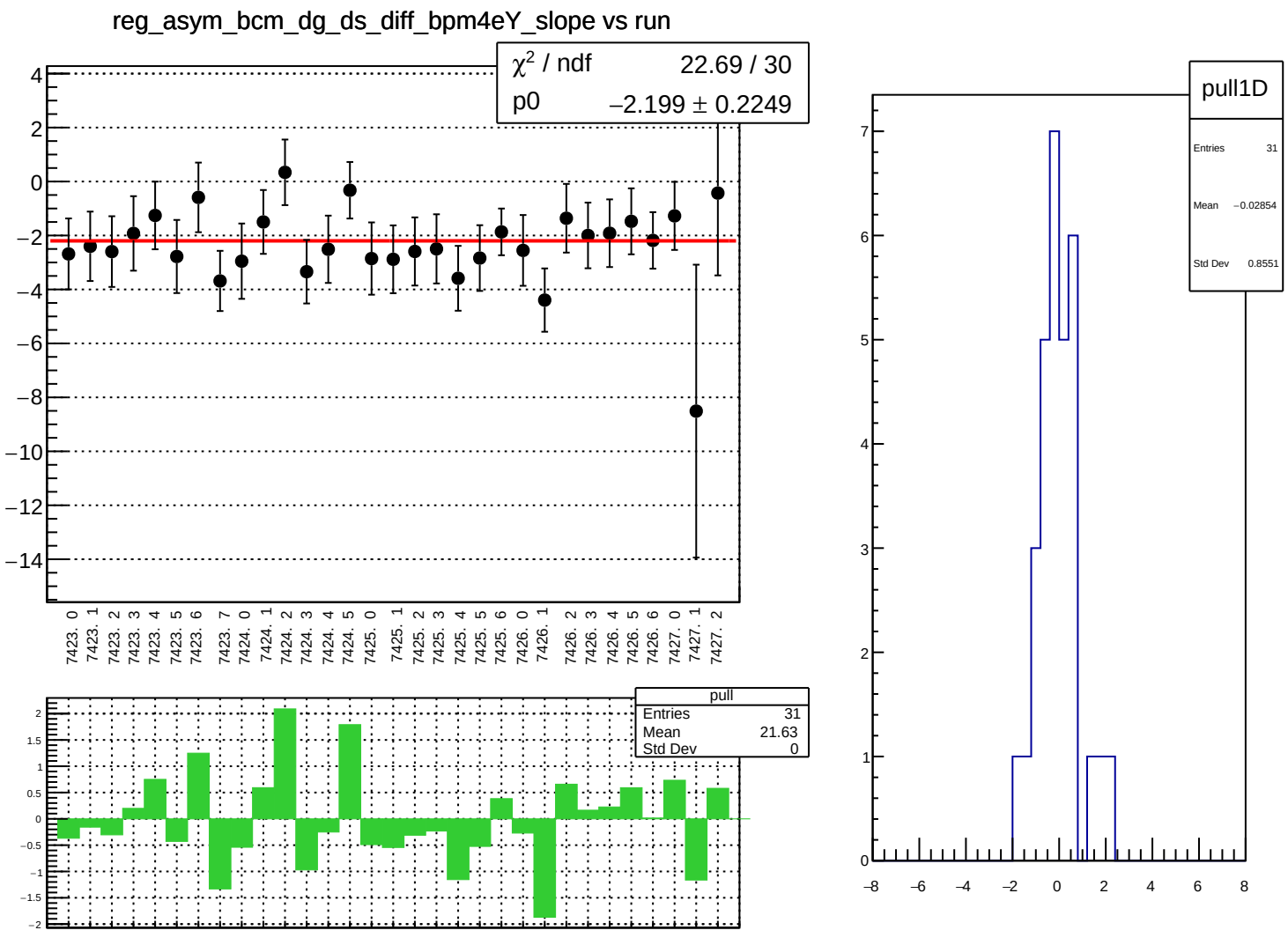

pull1D
Entries 31
Mean −0.02899
Std Dev 0.8095

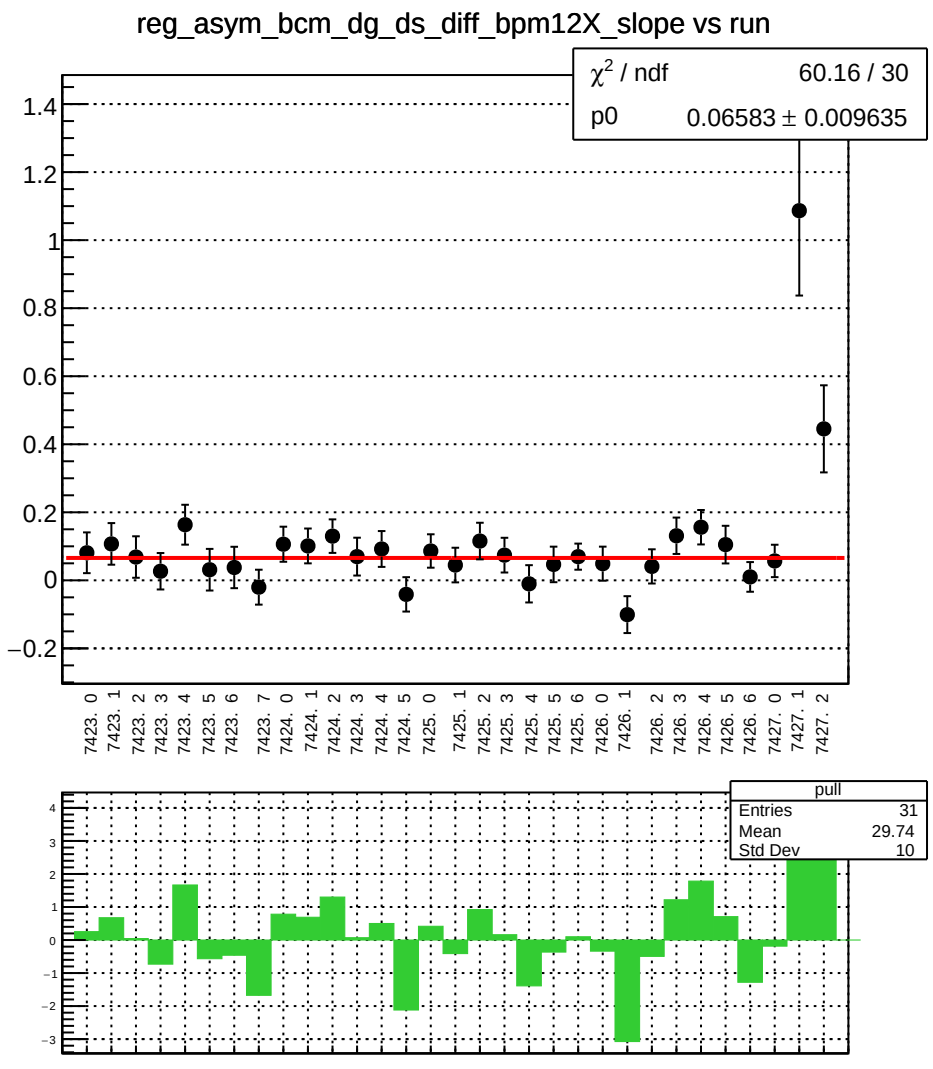

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 40.56 / 30
p0 0.06254 ± 0.009403
pull
Entries 31
Mean 35.25
Std Dev 0
pull1D
Entries 31
Mean 0.1704
Std Dev 1.131

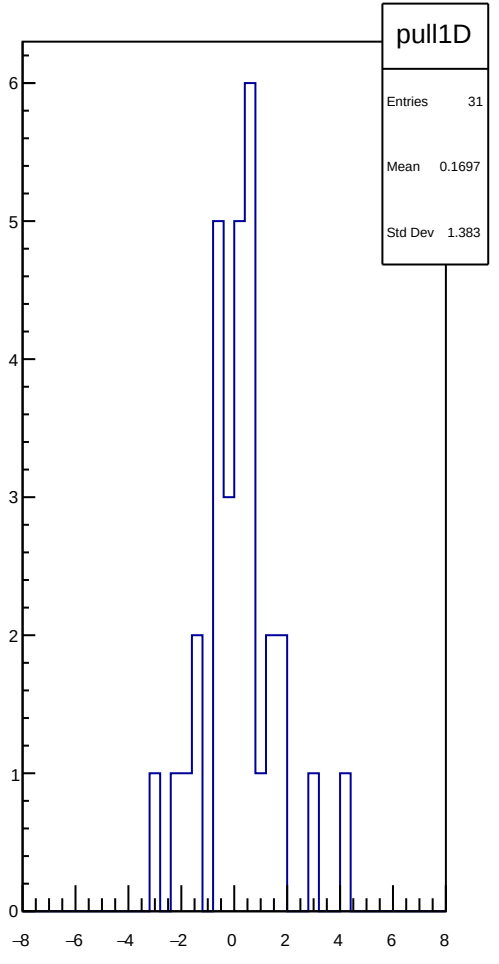

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 59.8 / 30
p0 −2.584 ± 0.222
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 20.6
Std Dev 14.41
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.1932
Std Dev 1.375
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

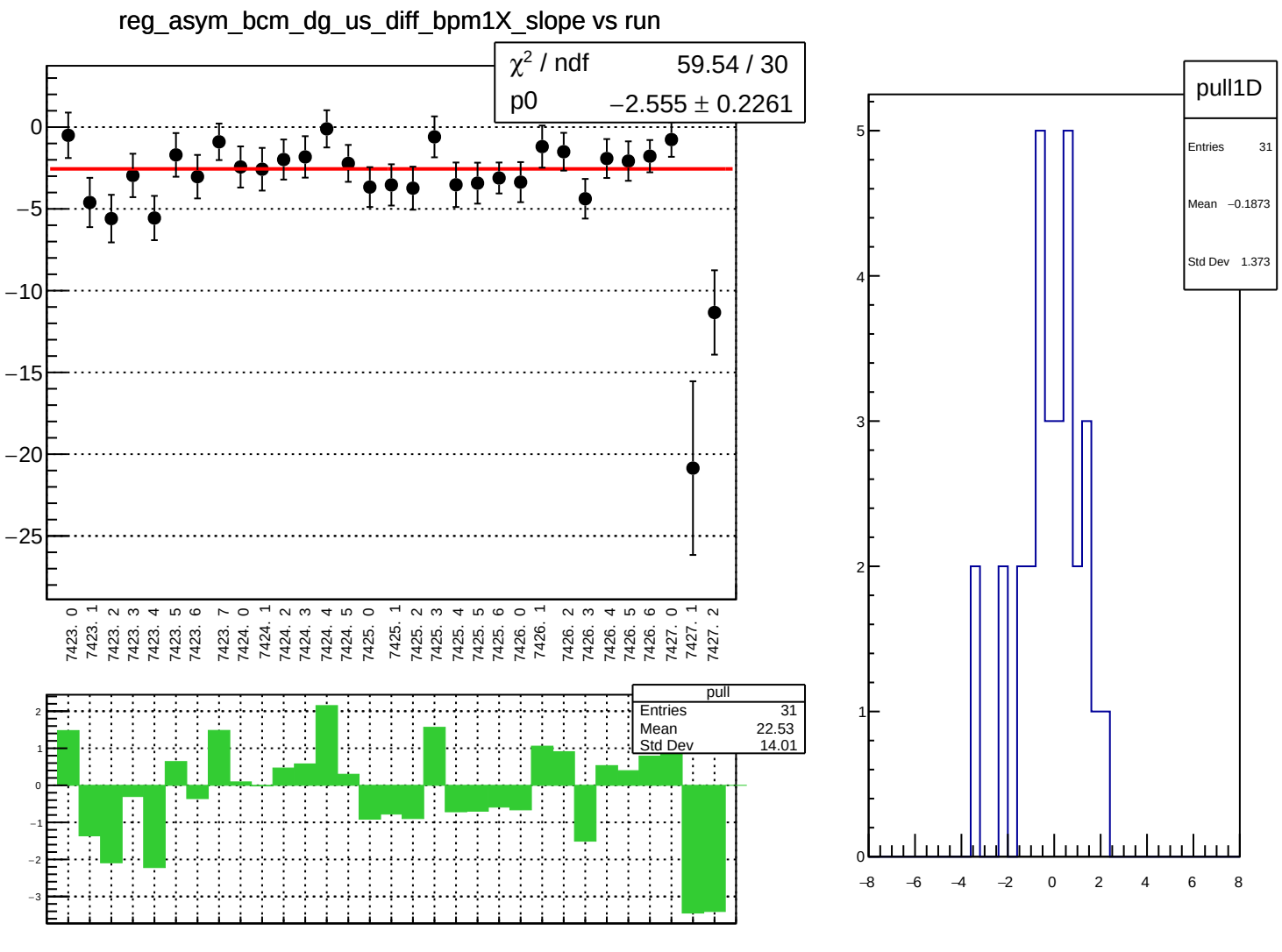

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 22.27 / 30
p0 0.7855 ± 0.2119
pull
Entries 31
Mean 1.723
Std Dev 57.86
pull1D
Entries 31
Mean −0.002523
Std Dev 0.8475

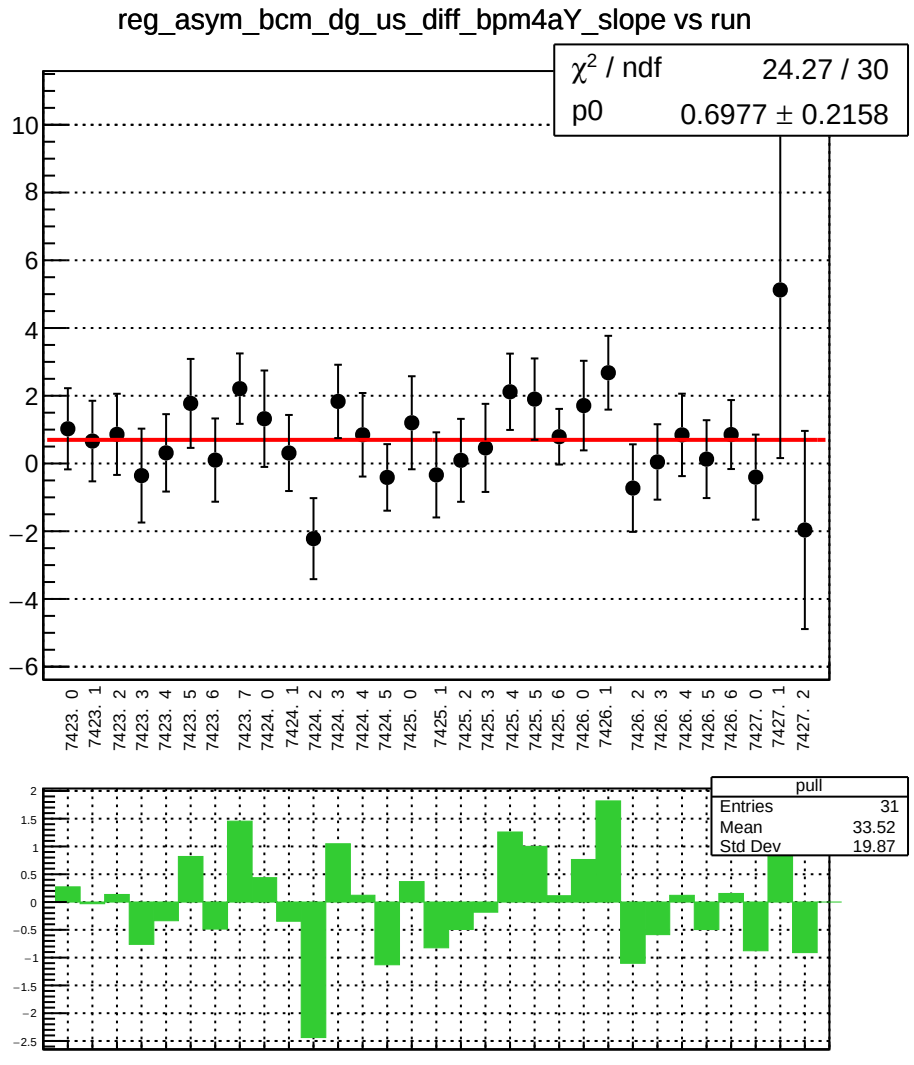

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 61.93 / 30
p0 2.802 ± 0.2295
25
20
15
10
5
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 21.6
Std Dev 13.75
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1943
Std Dev 1.4
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

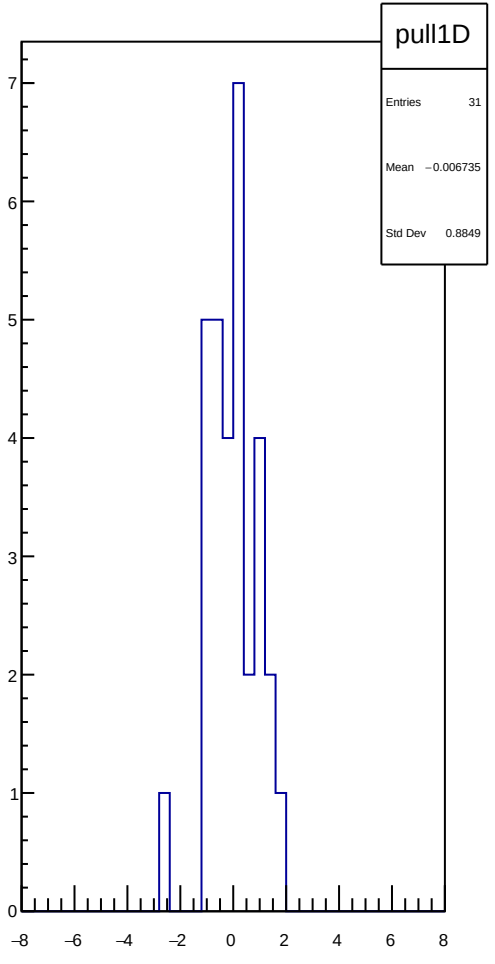

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 22.69 / 30
p0 −2.199 ± 0.2249
4
2
0
−2
−4
−6
−8
−10
−12
−14
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 21.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.02854
Std Dev 0.8551
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

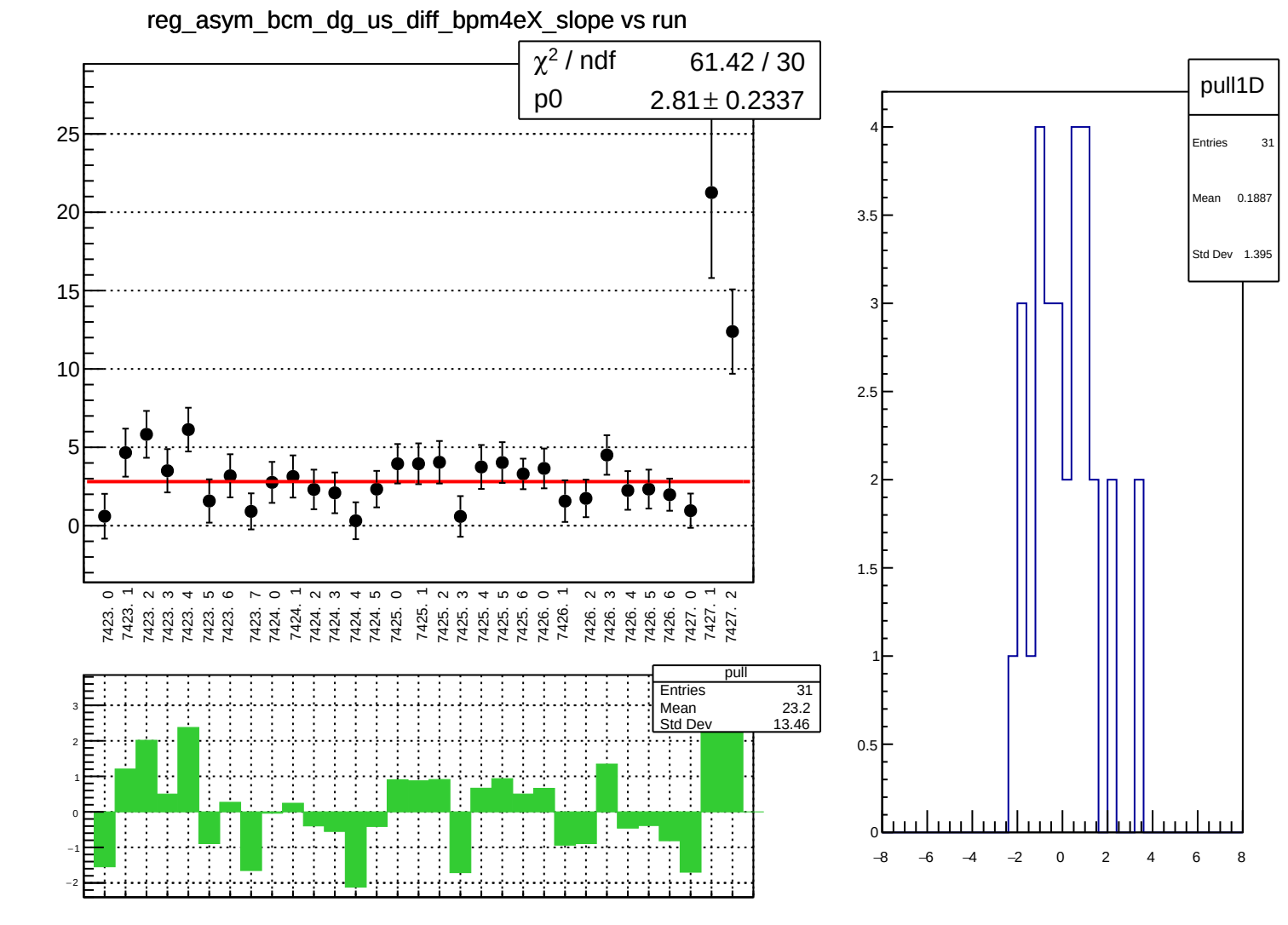

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 60.16 / 30
p0 0.06583 ± 0.009635
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 29.74
Std Dev 10
4
3
2
1
0
−1
−2
−3

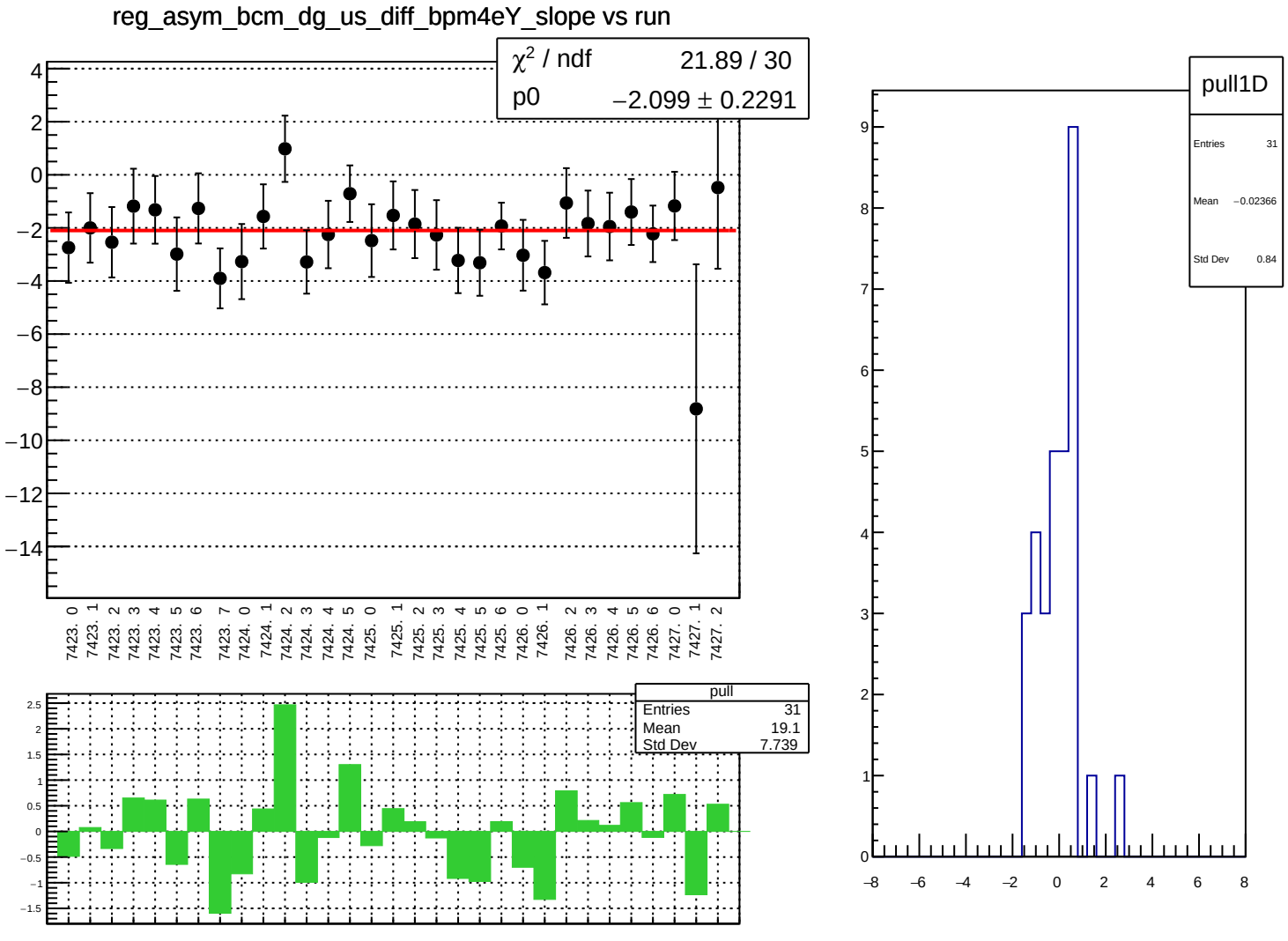

pull1D
Entries 31
Mean 0.1697
Std Dev 1.383
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

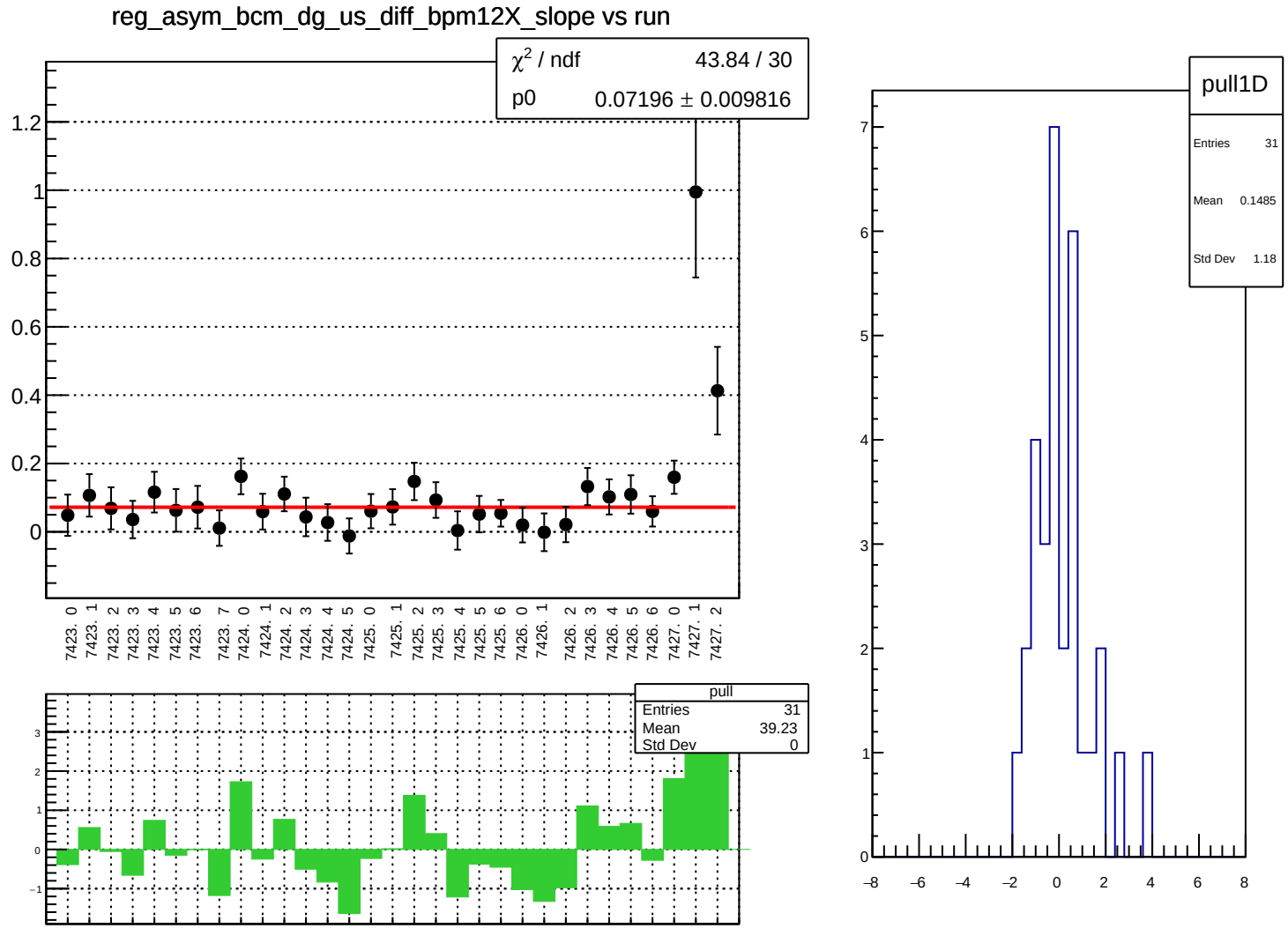

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 59.54 / 30
p0 −2.555 ± 0.2261
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 22.53
Std Dev 14.01
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.1873
Std Dev 1.373
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

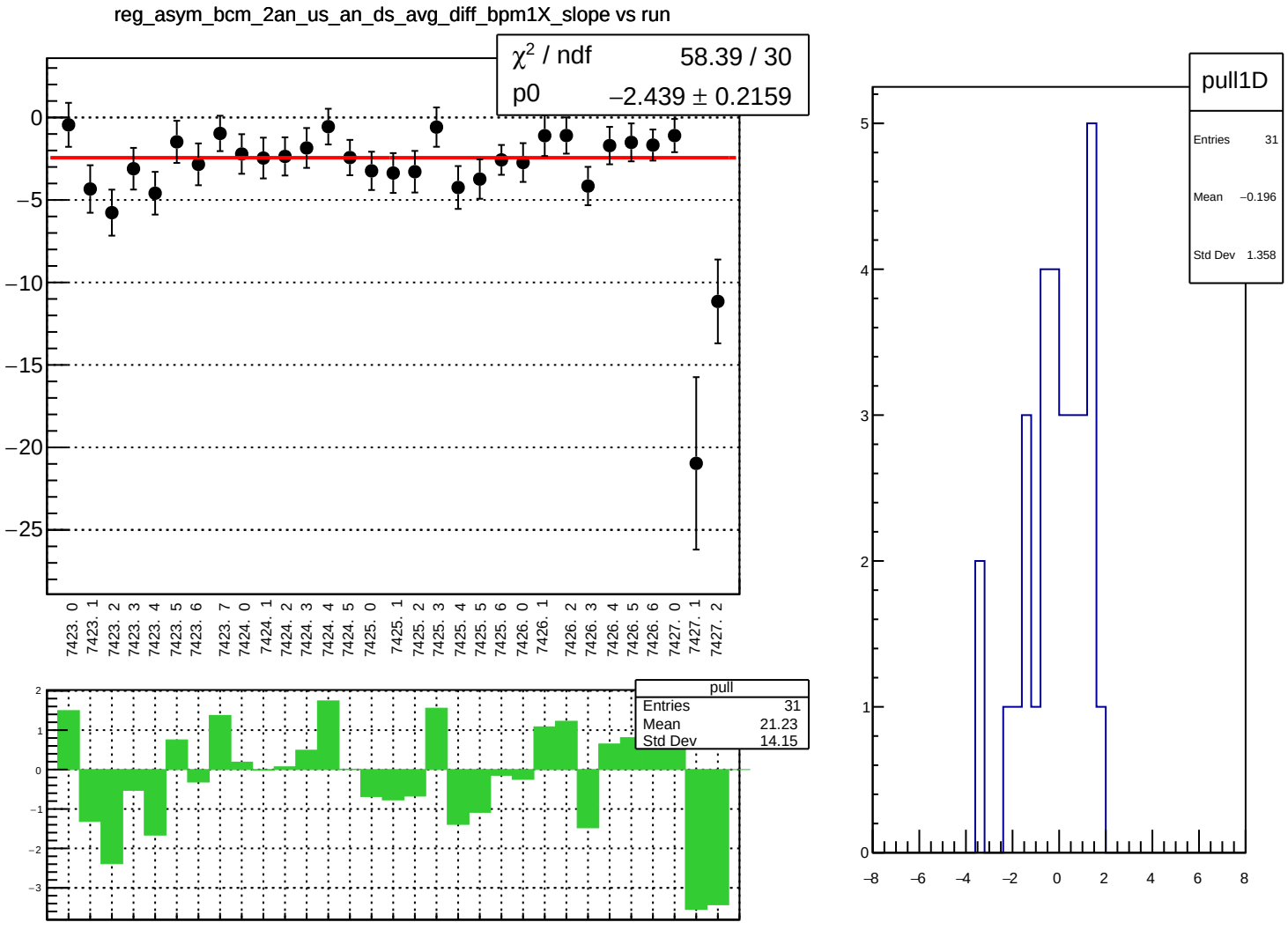

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 24.27 / 30
p0 0.6977 ± 0.2158
pull
Entries 31
Mean 33.52
Std Dev 19.87

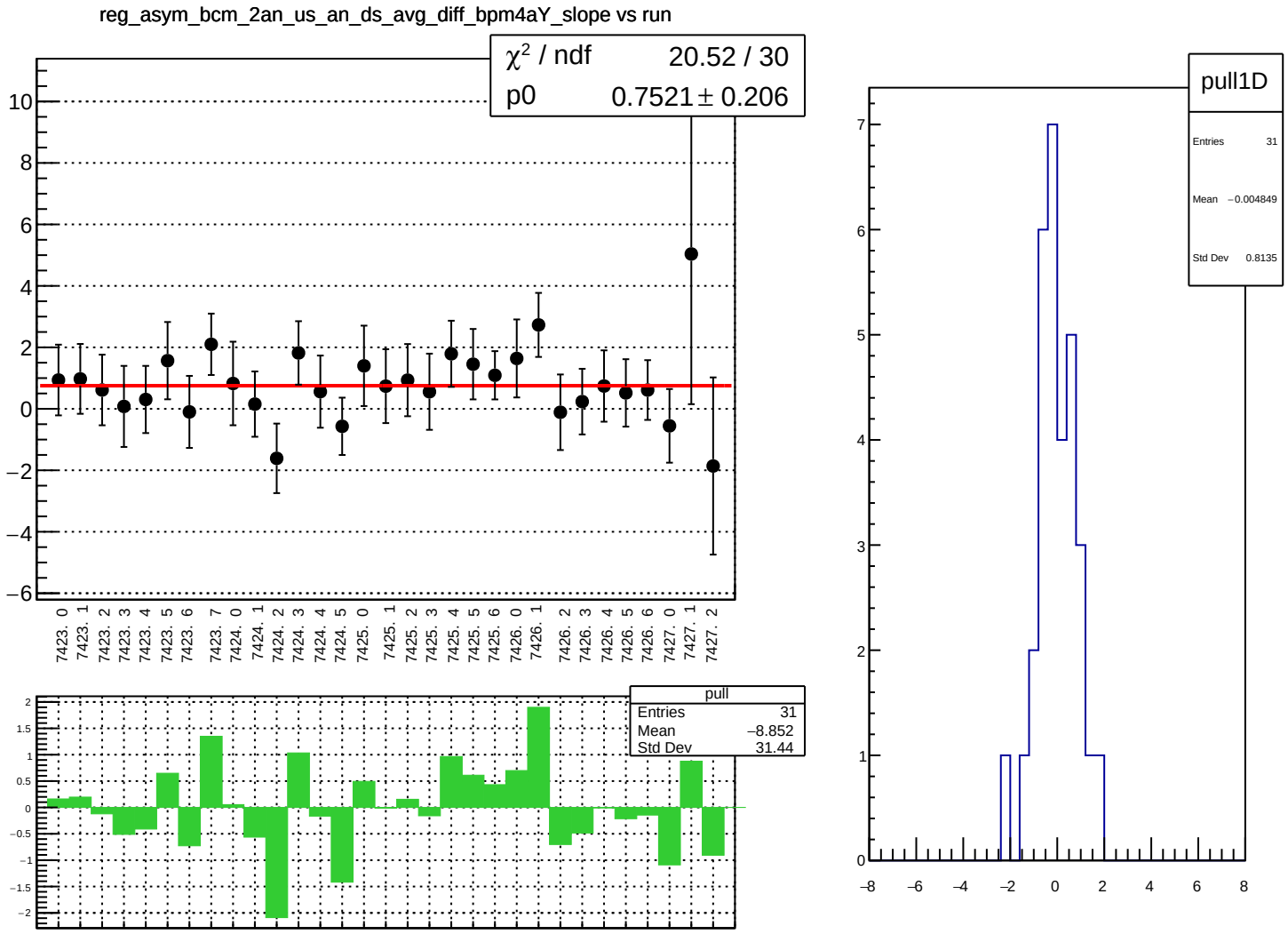

pull1D
Entries 31
Mean −0.006735
Std Dev 0.8849

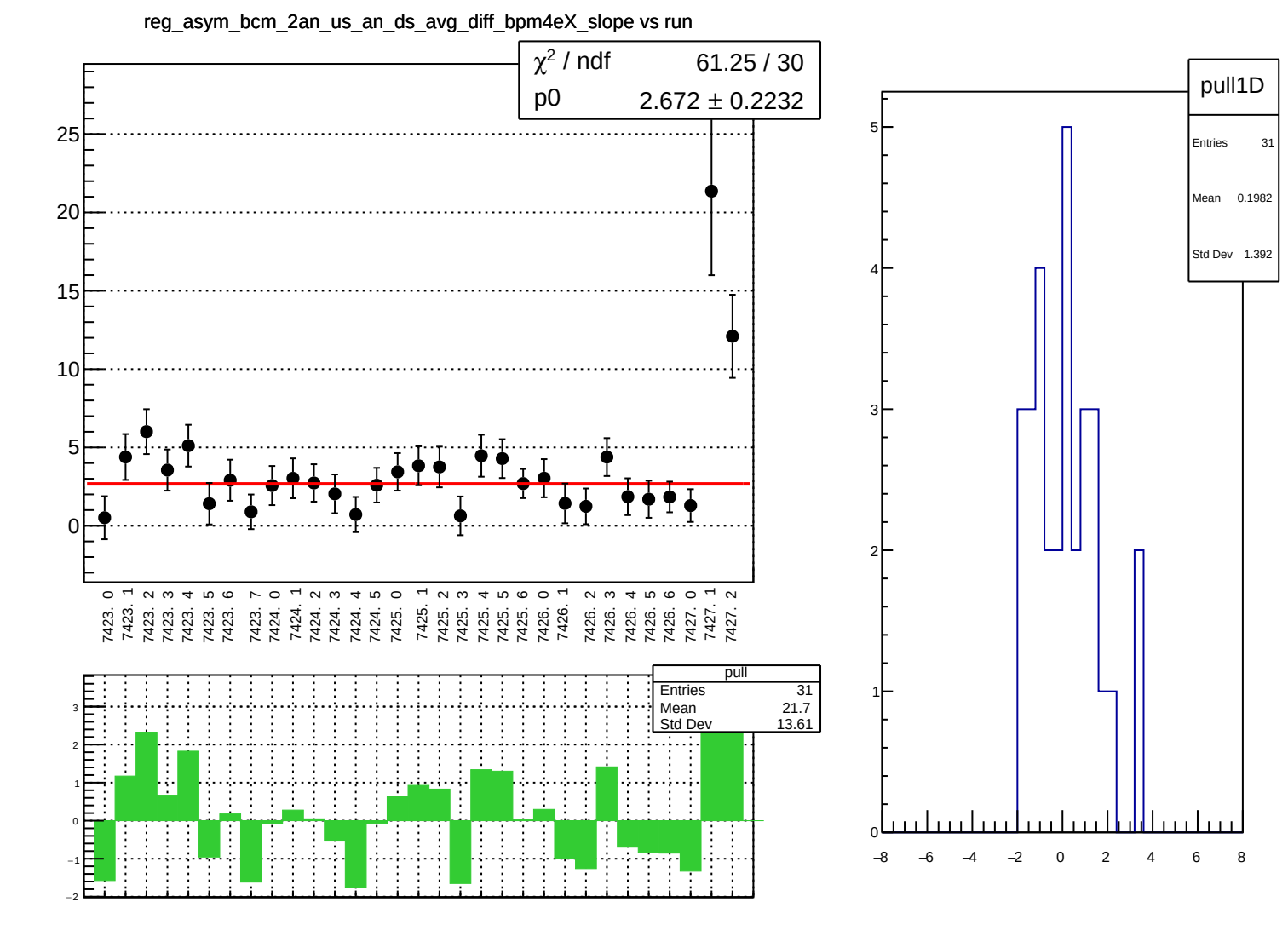

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 61.42 / 30
p0 2.81 ± 0.2337
25
20
15
10
5
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 23.2
Std Dev 13.46
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1887
Std Dev 1.395
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

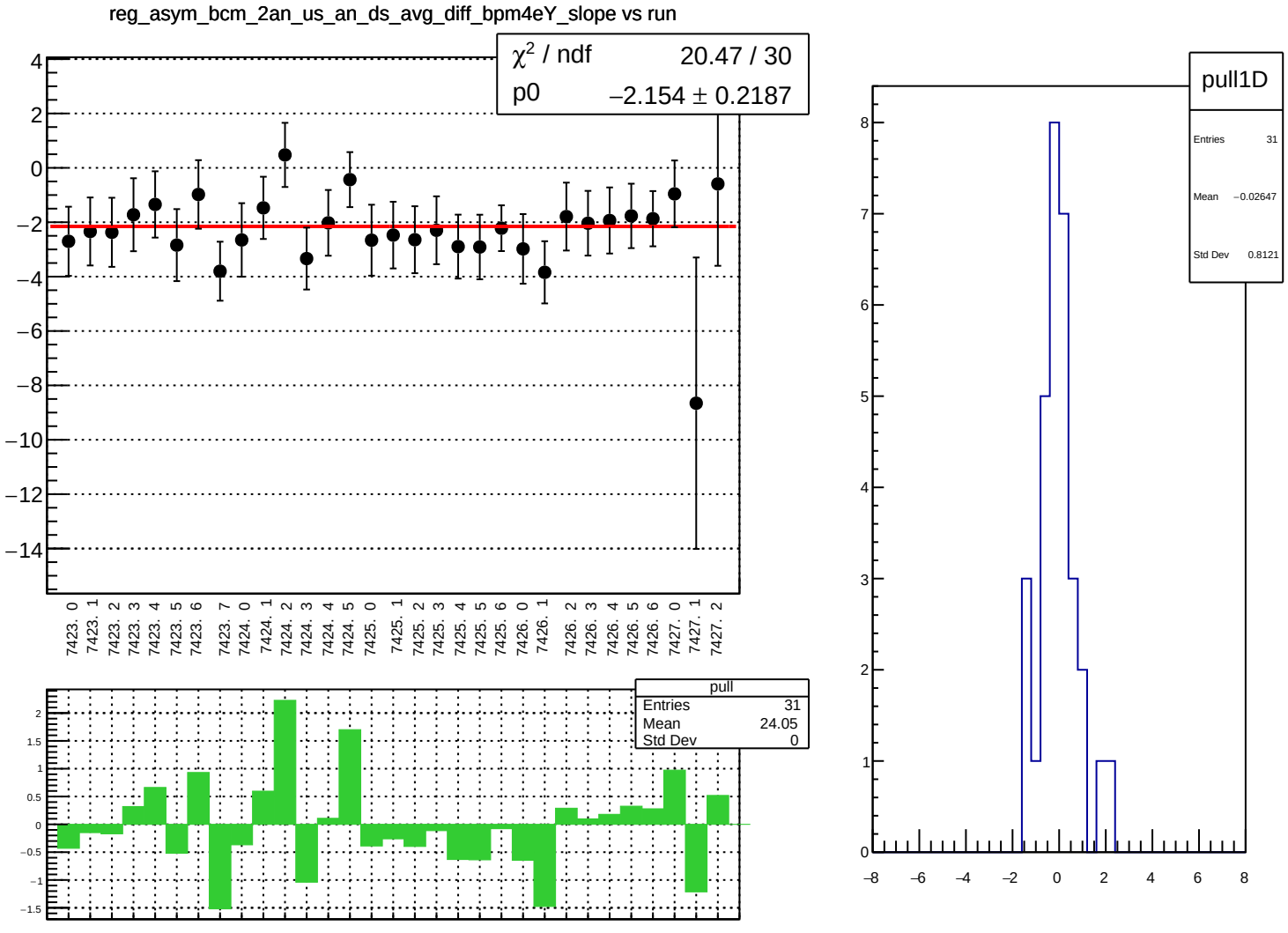

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 21.89 / 30
p0 −2.099 ± 0.2291
pull
Entries 31
Mean 19.1
Std Dev 7.739
pull1D
Entries 31
Mean −0.02366
Std Dev 0.84

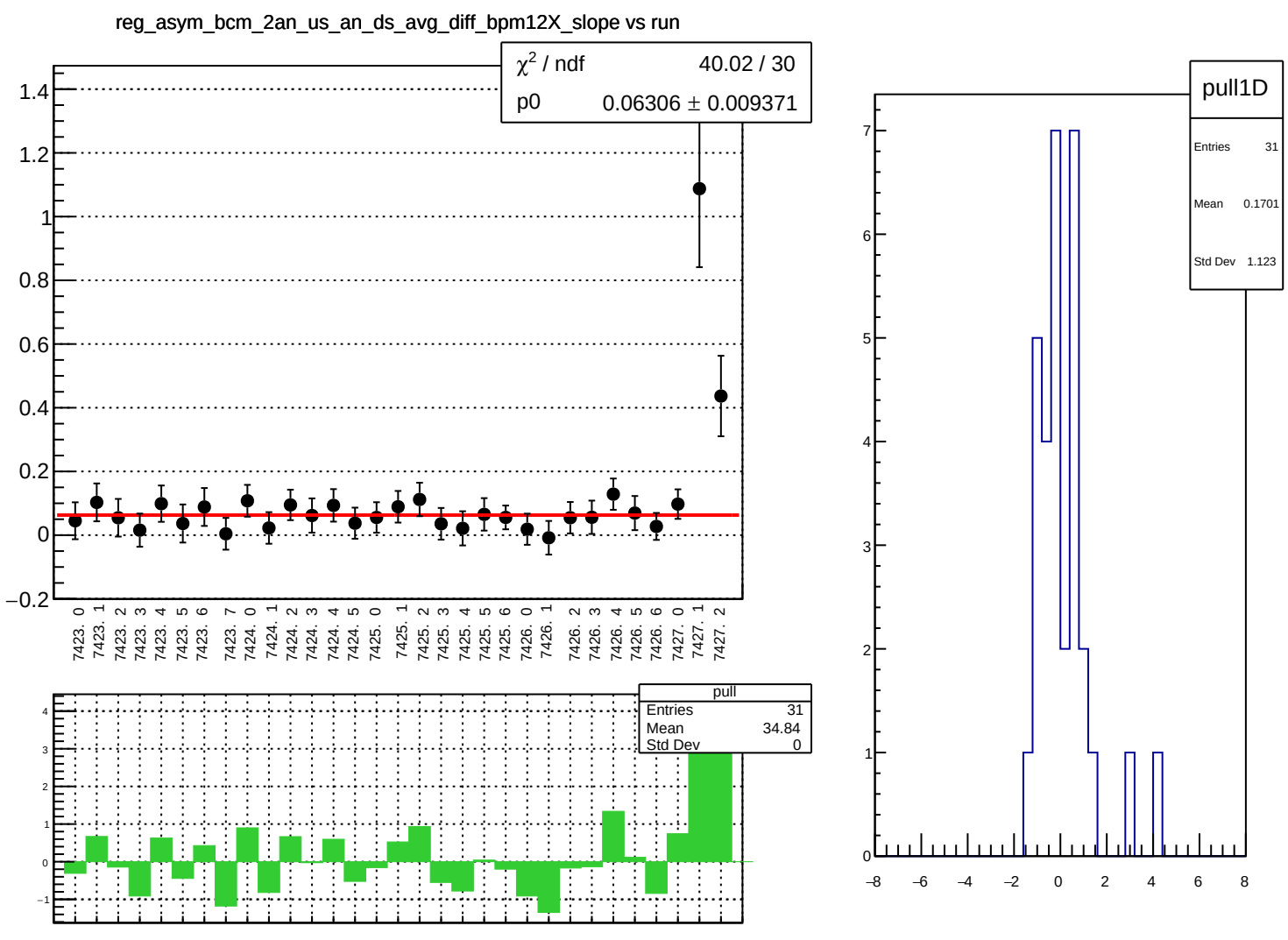

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 43.84 / 30
p0 0.07196 ± 0.009816
1.2
1
0.8
0.6
0.4
0.2
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 39.23
Std Dev 0
3
2
1
0
−1
pull1D
Entries 31
Mean 0.1485
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

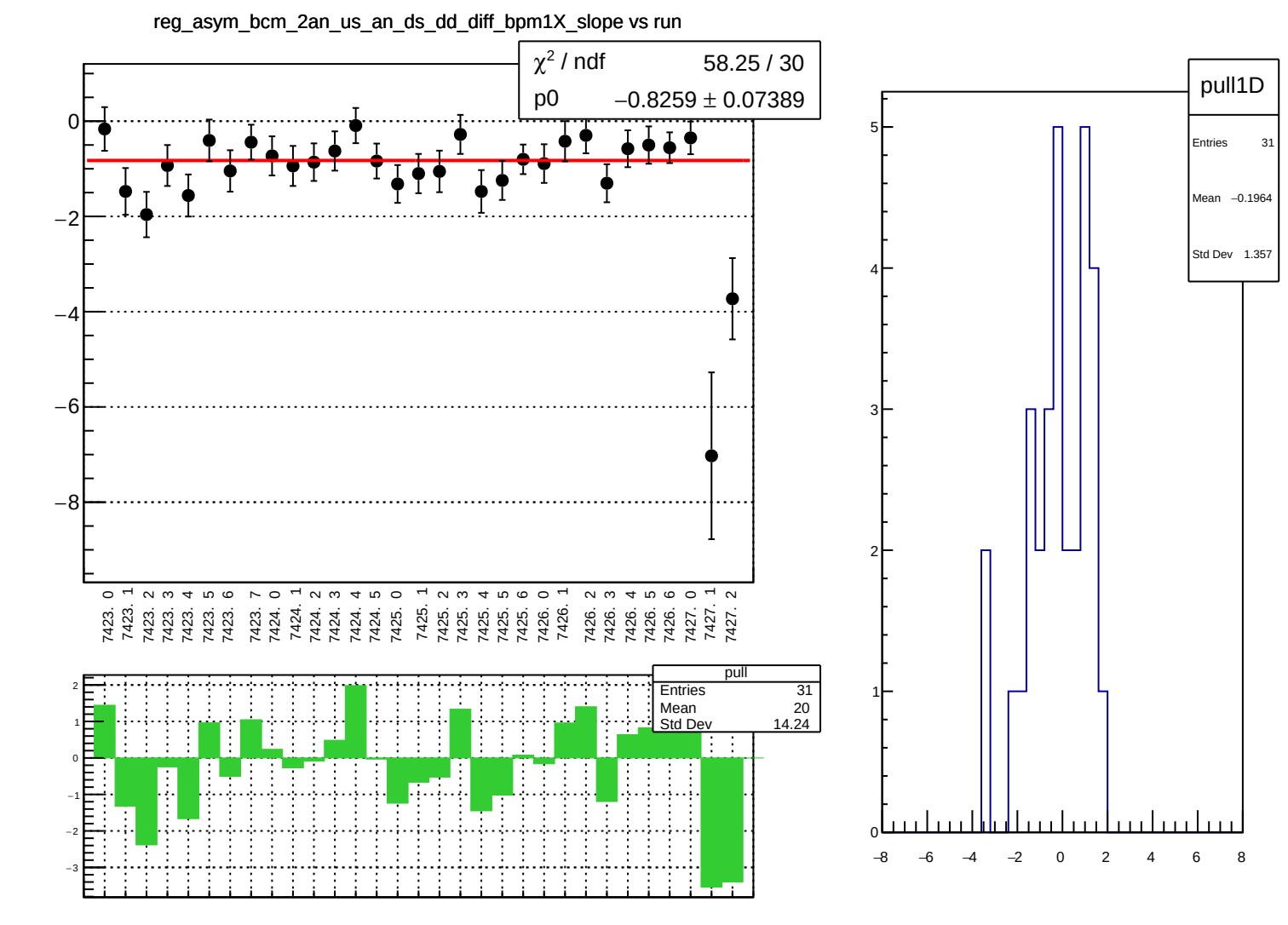

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 58.39 / 30
p0 −2.439 ± 0.2159
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 21.23
Std Dev 14.15
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.196
Std Dev 1.358
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

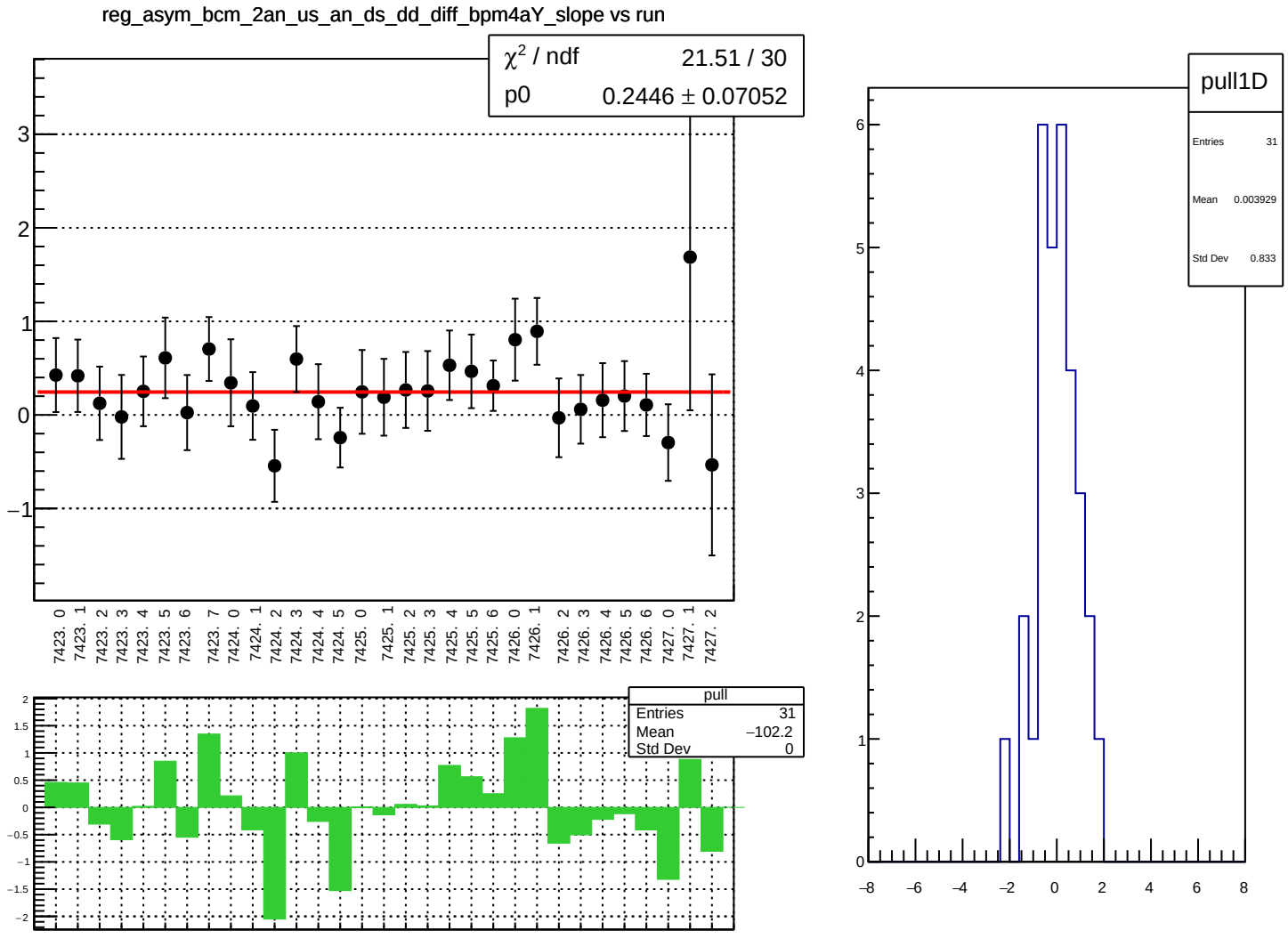

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.52 / 30
p0 0.7521 ± 0.206
pull
Entries 31
Mean −8.852
Std Dev 31.44
pull1D
Entries 31
Mean −0.004849
Std Dev 0.8135

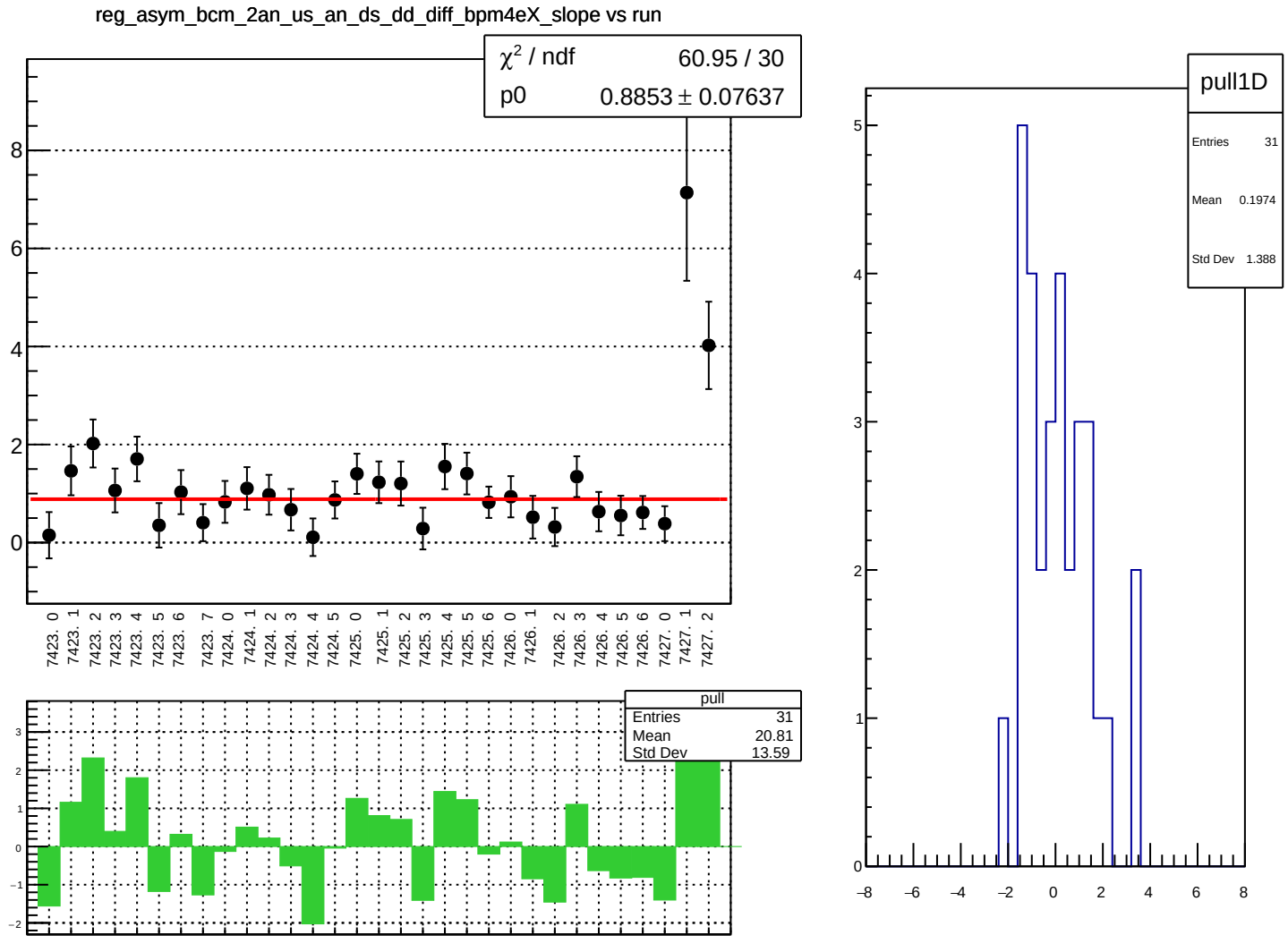

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.25 / 30
p0 2.672 ± 0.2232
pull
Entries 31
Mean 21.7
Std Dev 13.61
pull1D
Entries 31
Mean 0.1982
Std Dev 1.392

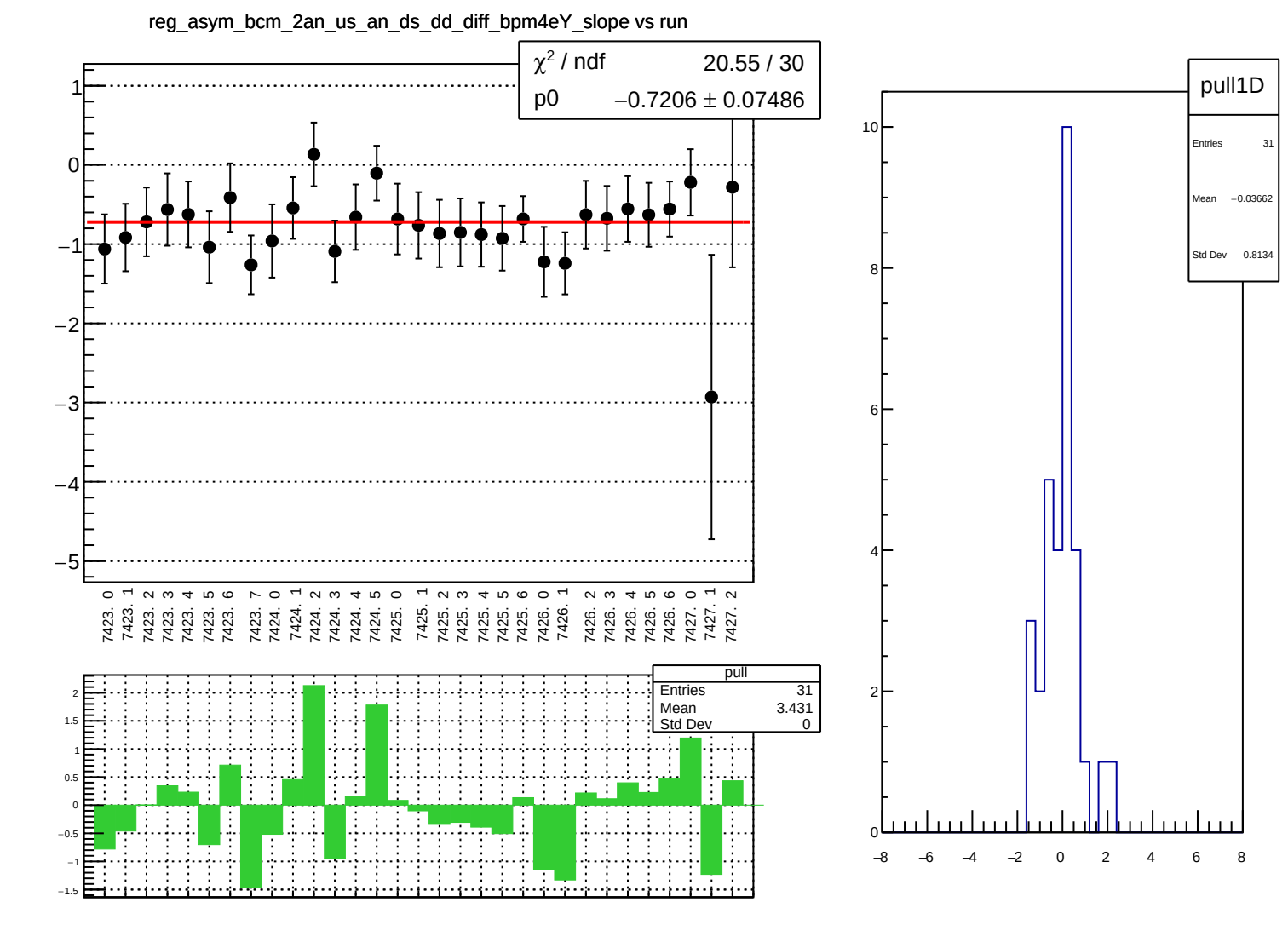

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.47 / 30
p0 −2.154 ± 0.2187
pull
Entries 31
Mean 24.05
Std Dev 0
pull1D
Entries 31
Mean −0.02647
Std Dev 0.8121

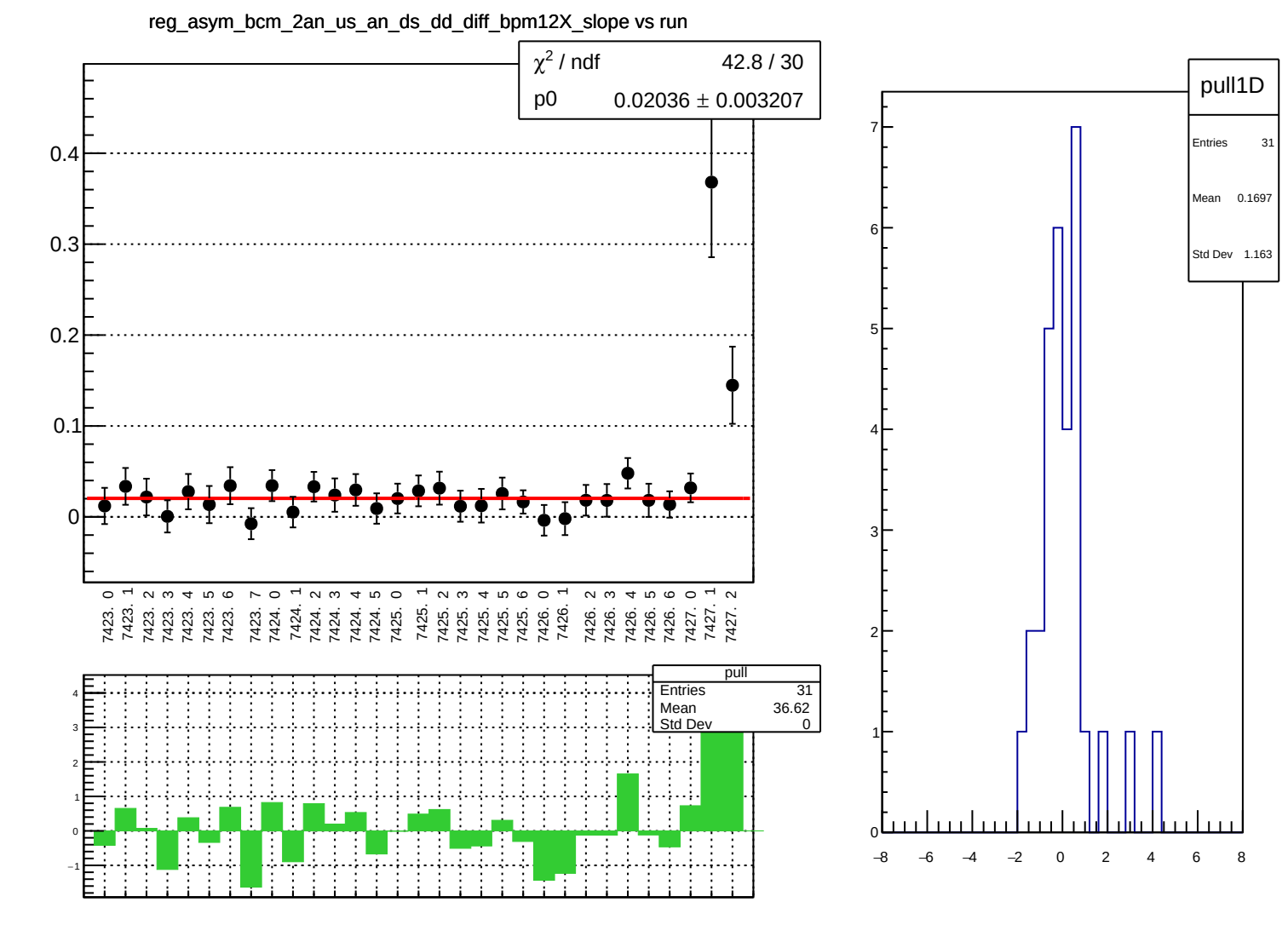

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 40.02 / 30
p0 0.06306 ± 0.009371
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 34.84
Std Dev 0
pull1D
Entries 31
Mean 0.1701
Std Dev 1.123
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

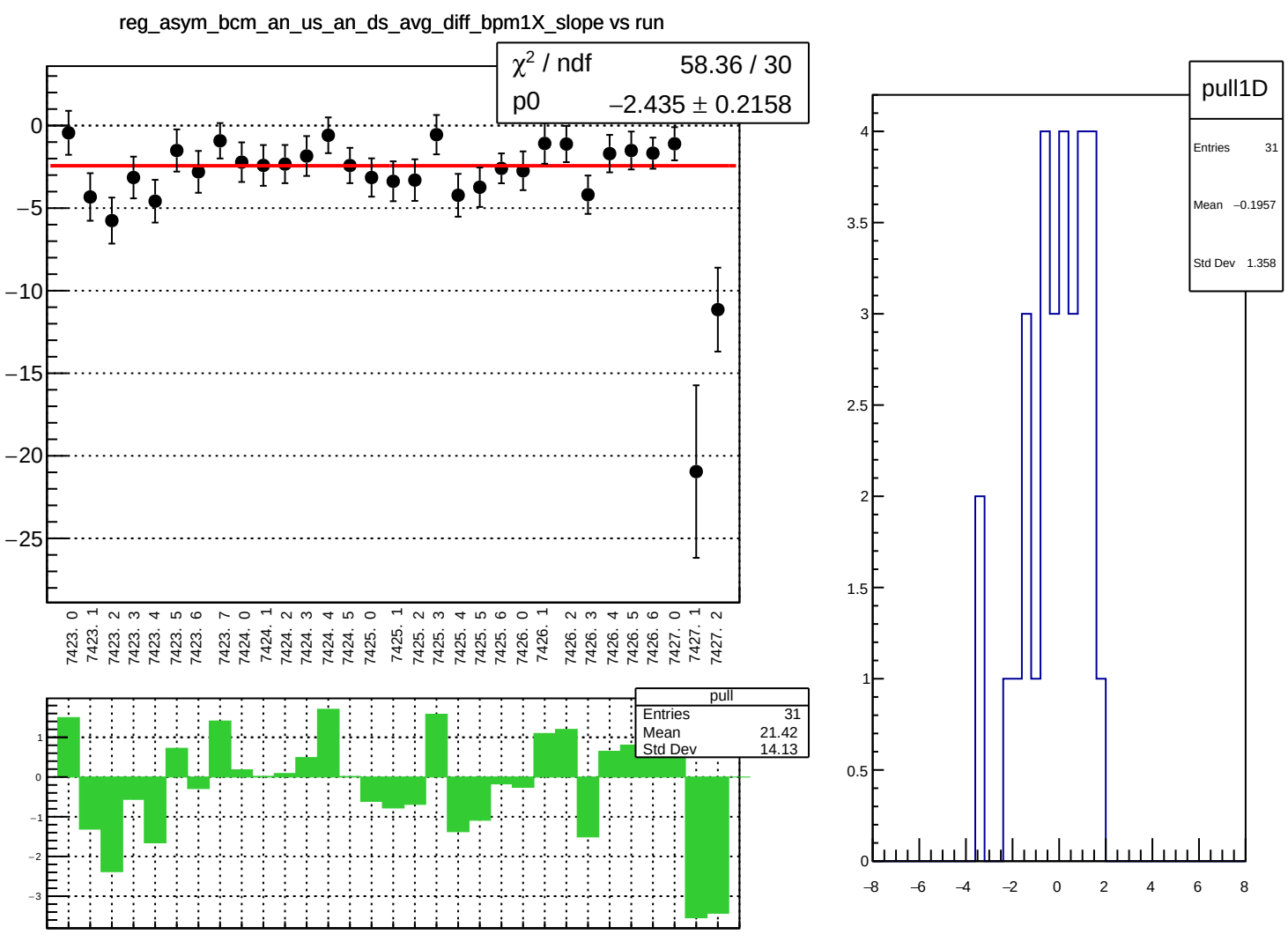

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 58.25 / 30
p0 −0.8259 ± 0.07389
pull
Entries 31
Mean 20
Std Dev 14.24
pull1D
Entries 31
Mean −0.1964
Std Dev 1.357

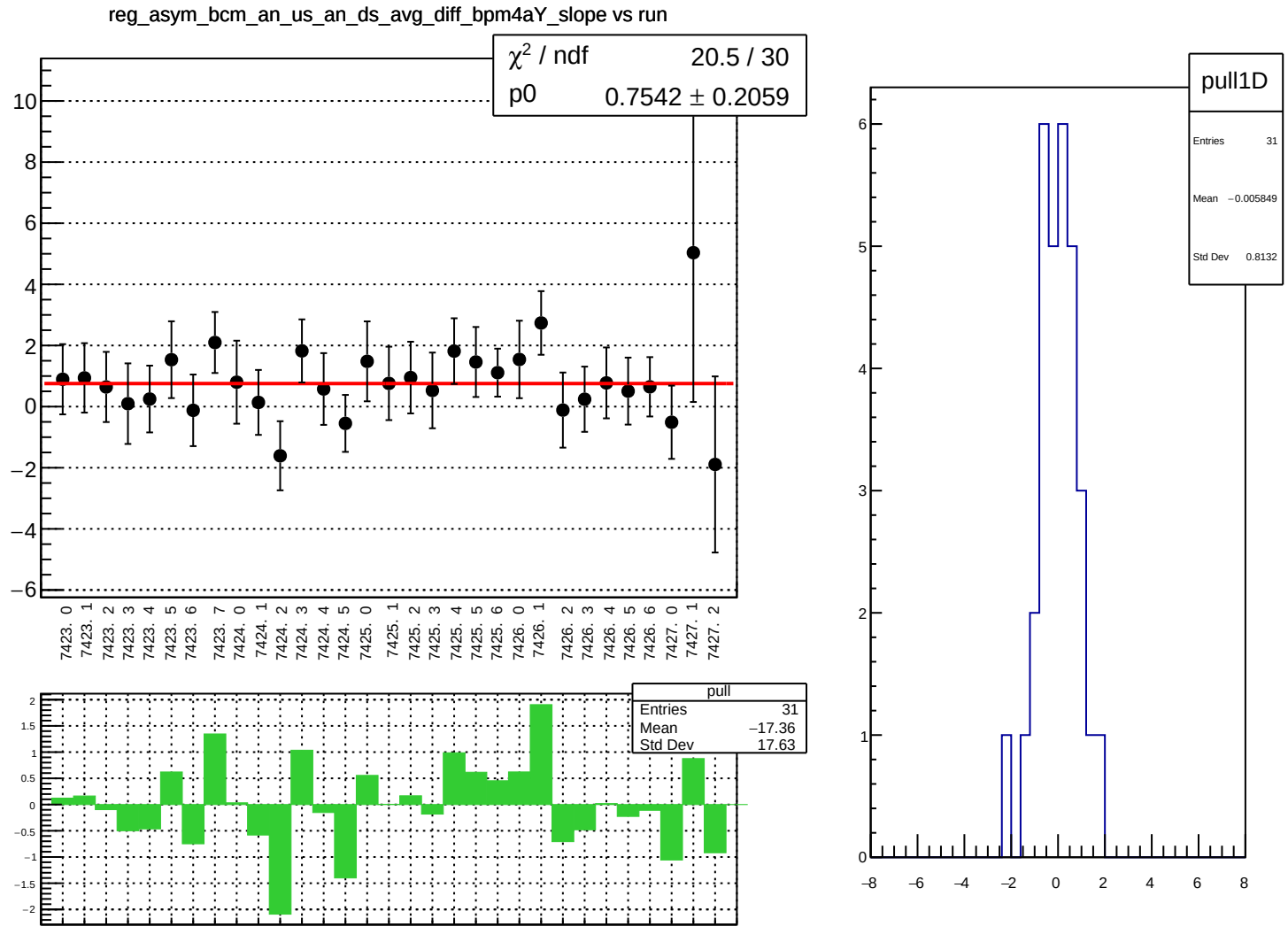

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.51 / 30
p0 0.2446 ± 0.07052
3
2
1
0
−1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −102.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.003929
Std Dev 0.833
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

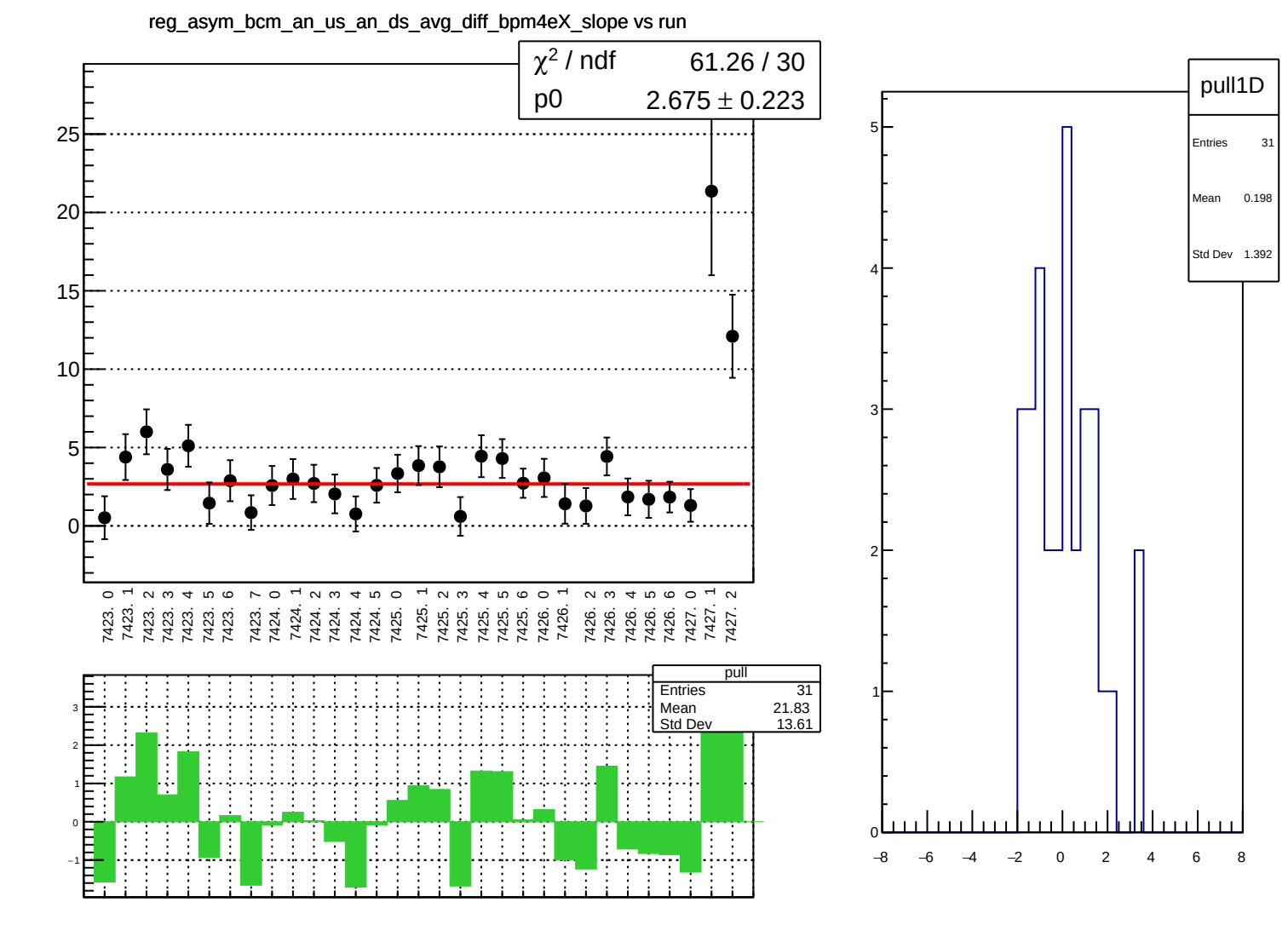

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.95 / 30
p0 0.8853 ± 0.07637
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 20.81
Std Dev 13.59
pull1D
Entries 31
Mean 0.1974
Std Dev 1.388

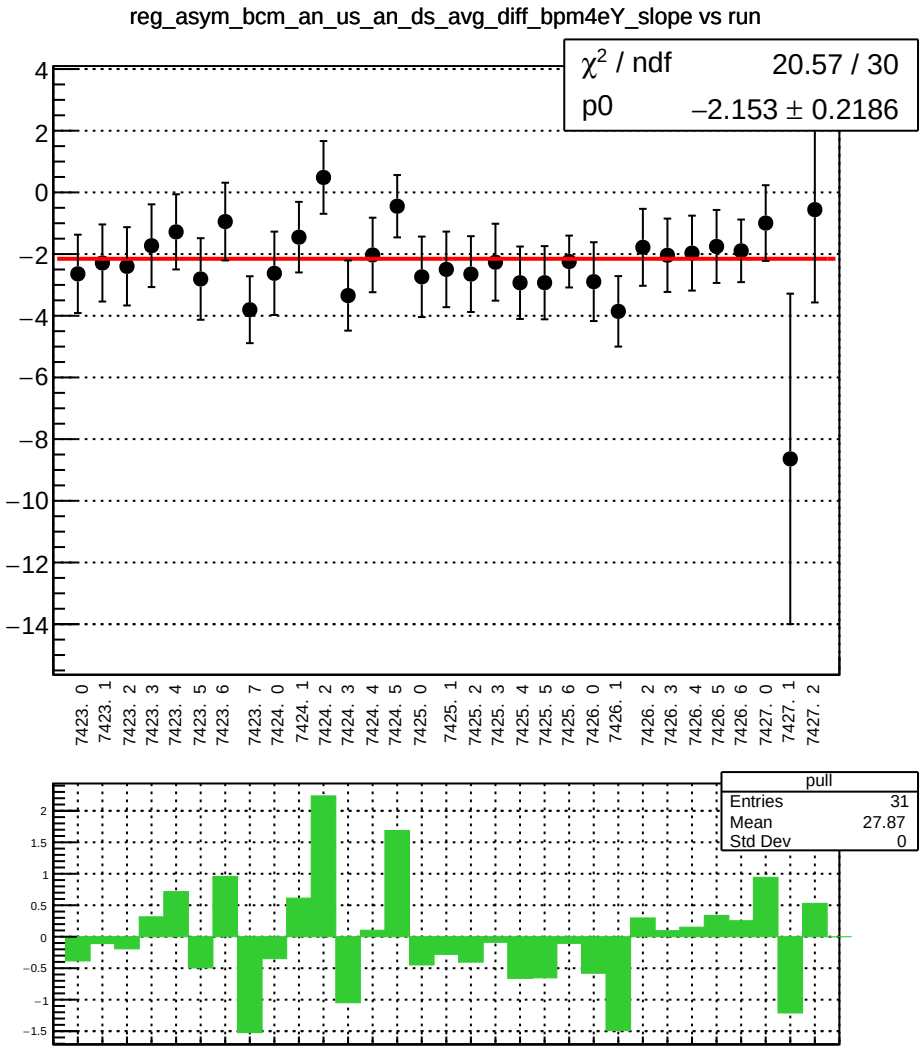

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.55 / 30
p0 −0.7206 ± 0.07486
pull
Entries 31
Mean 3.431
Std Dev 0
pull1D
Entries 31
Mean −0.03662
Std Dev 0.8134

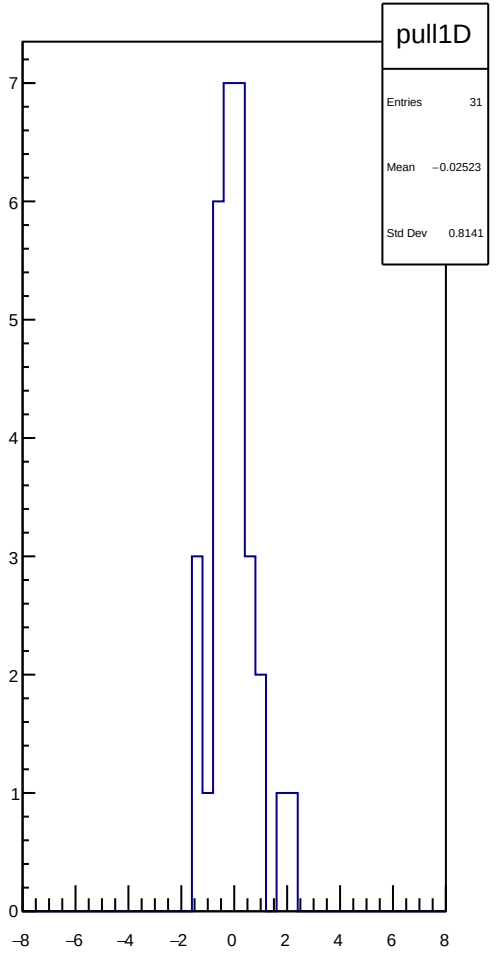

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 42.8 / 30
p0 0.02036 ± 0.003207
0.4
0.3
0.2
0.1
0
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 36.62
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 31
Mean 0.1697
Std Dev 1.163
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

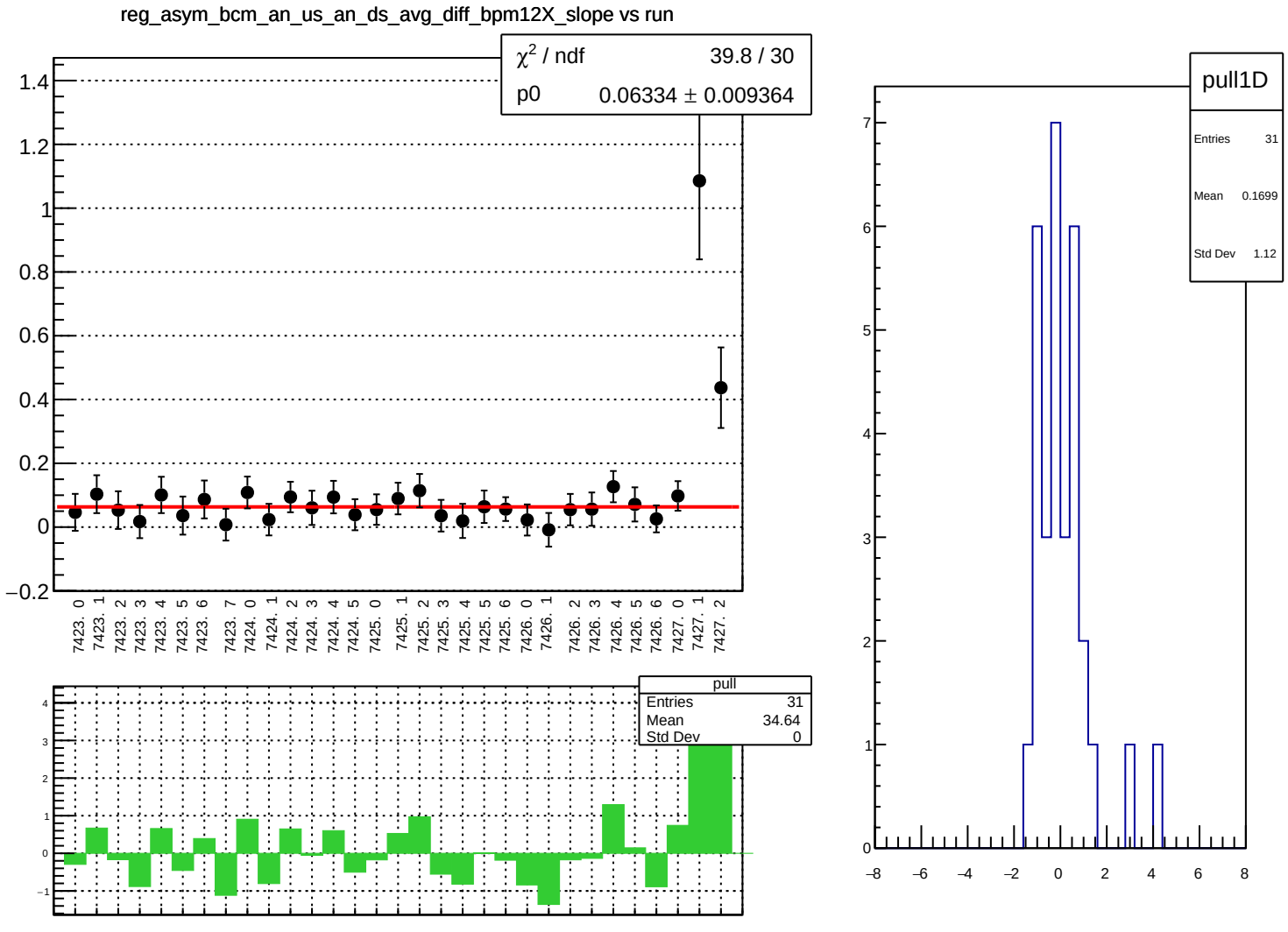

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 58.36 / 30
p0 −2.435 ± 0.2158
0
−5
−10
−15
−20
−25
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 21.42
Std Dev 14.13
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.1957
Std Dev 1.358
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

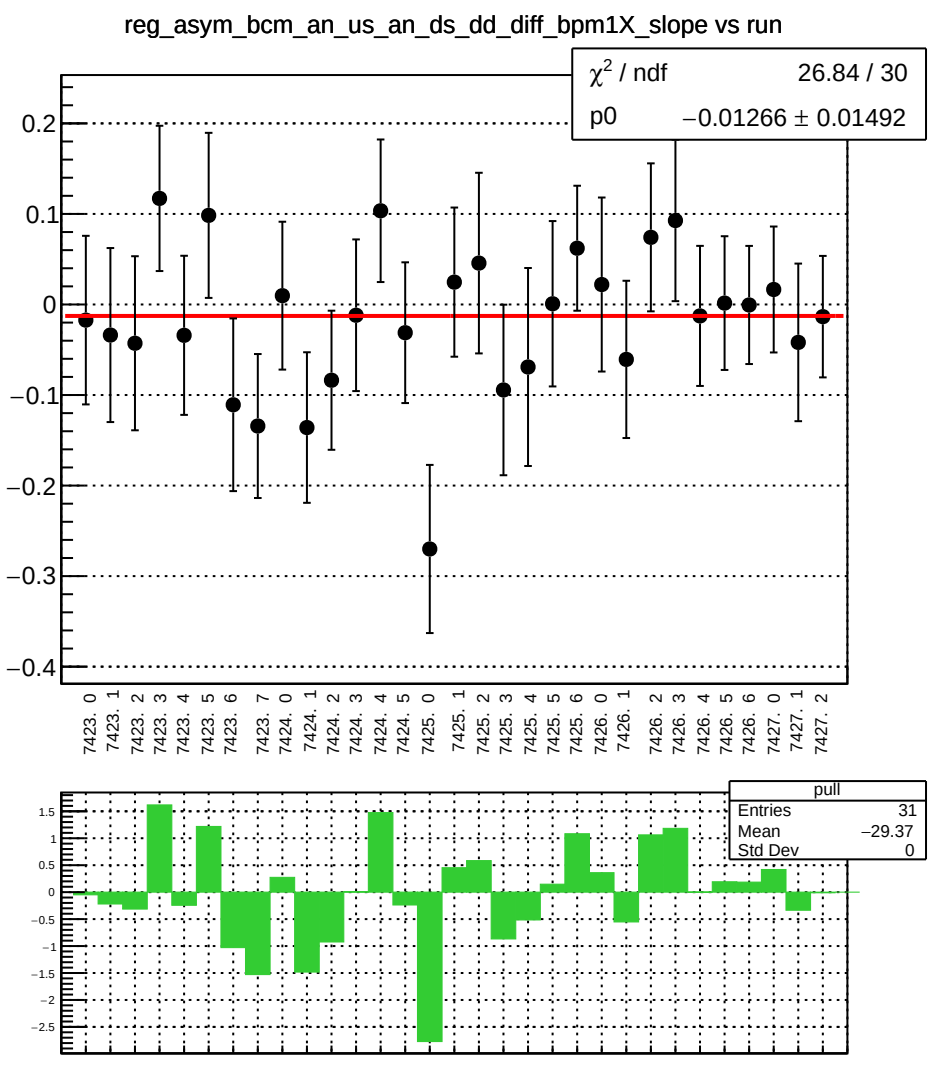

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.5 / 30
p0 0.7542 ± 0.2059
pull
Entries 31
Mean −17.36
Std Dev 17.63
pull1D
Entries 31
Mean −0.005849
Std Dev 0.8132

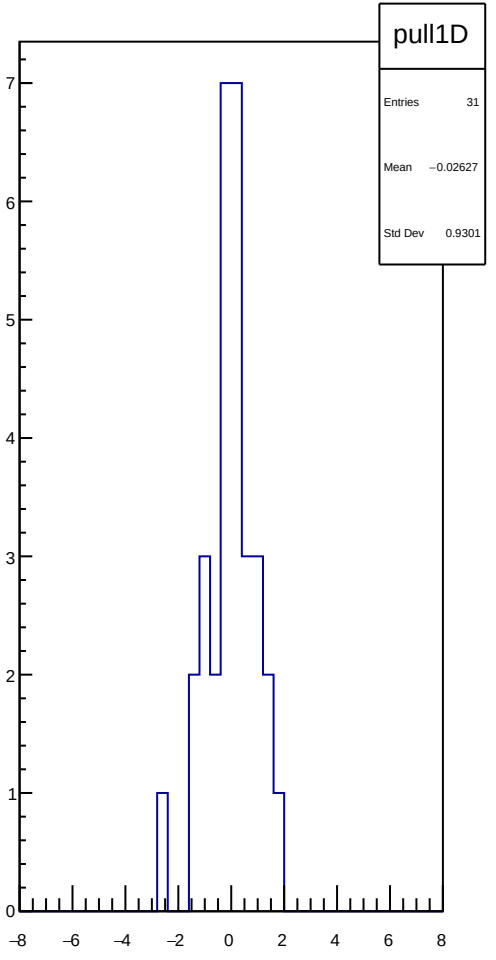

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.26 / 30
p0 2.675 ± 0.223
pull
Entries 31
Mean 21.83
Std Dev 13.61
pull1D
Entries 31
Mean 0.198
Std Dev 1.392

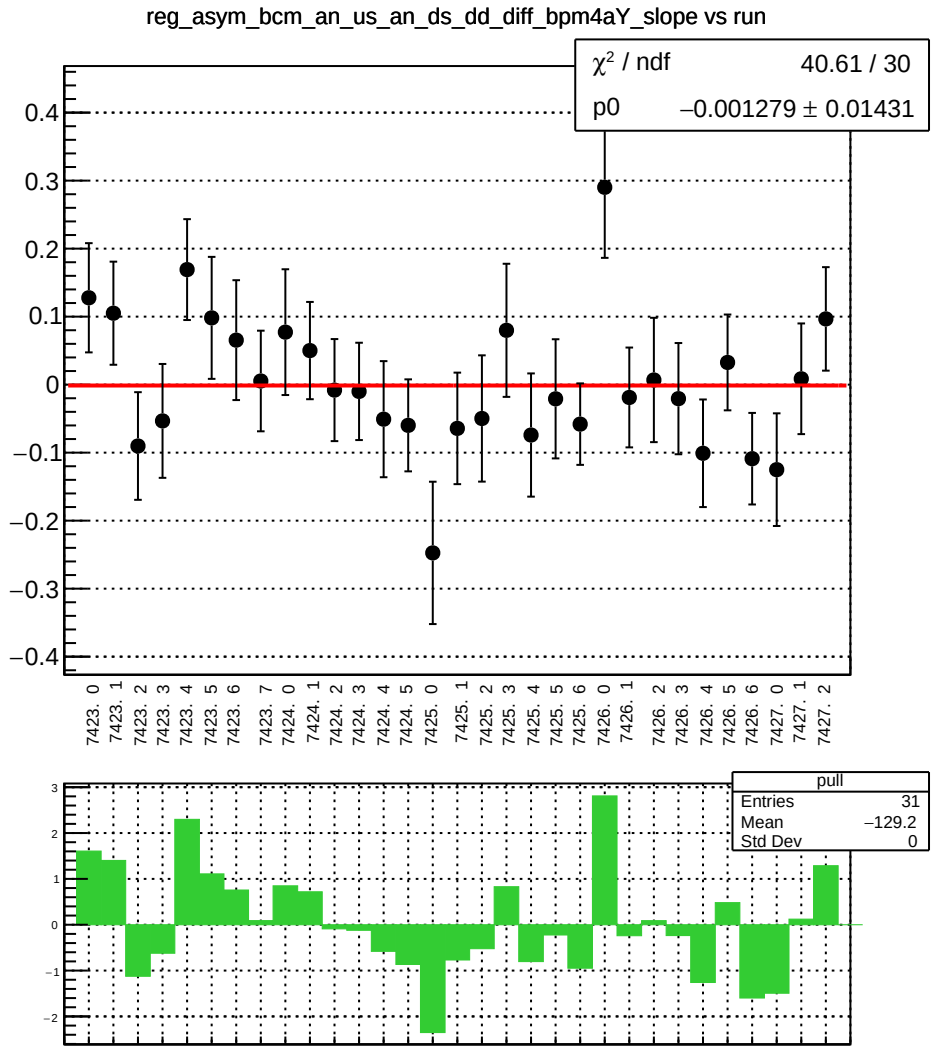

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.57 / 30
p0 −2.153 ± 0.2186
pull
Entries 31
Mean 27.87
Std Dev 0

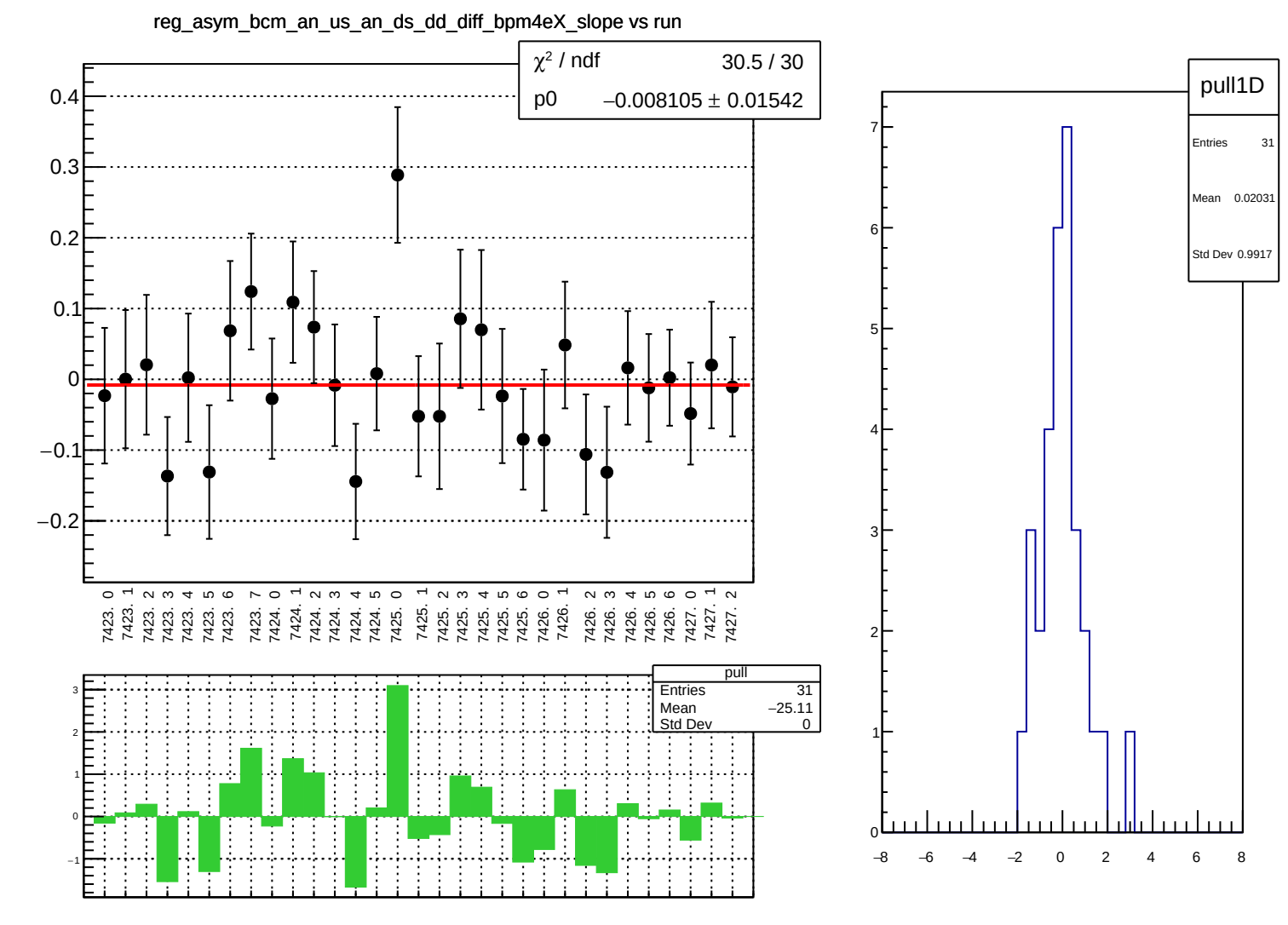

pull1D
Entries 31
Mean −0.02523
Std Dev 0.8141

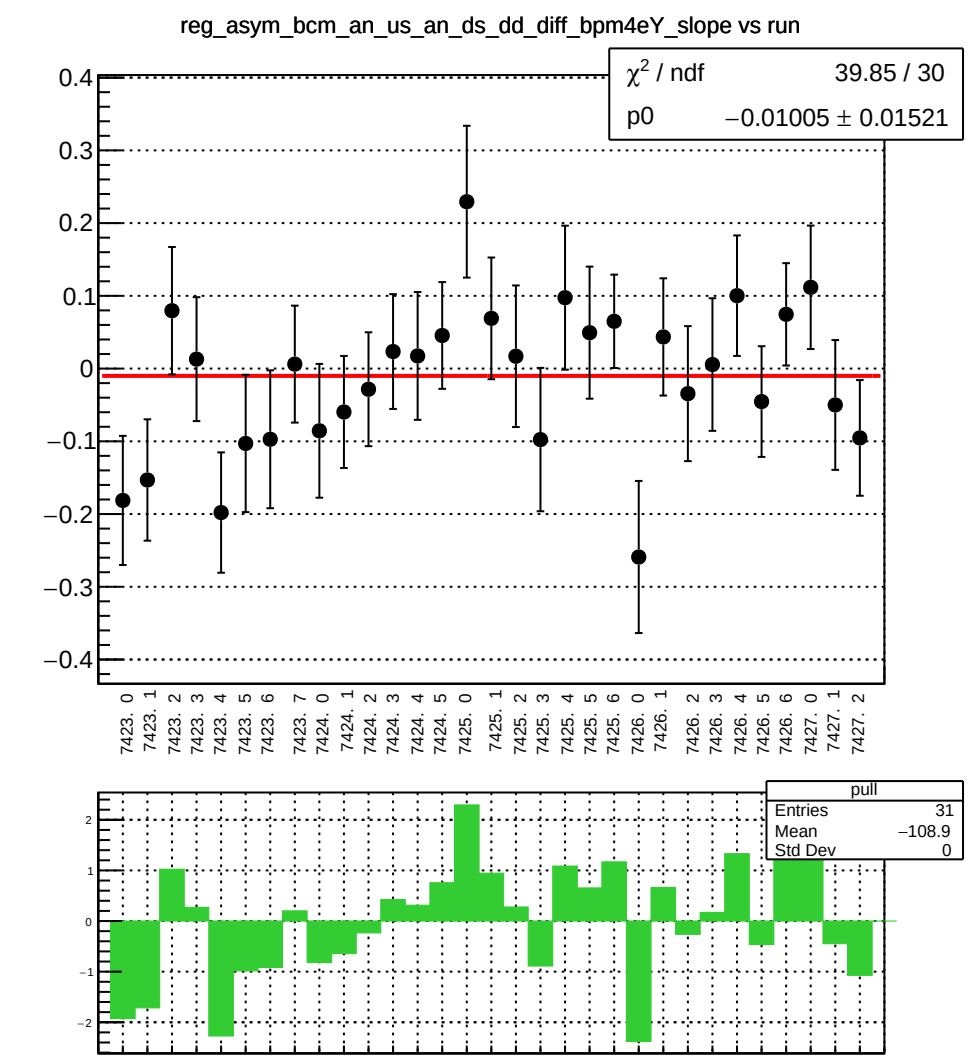

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 39.8 / 30
p0 0.06334 ± 0.009364
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 34.64
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 31
Mean 0.1699
Std Dev 1.12
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

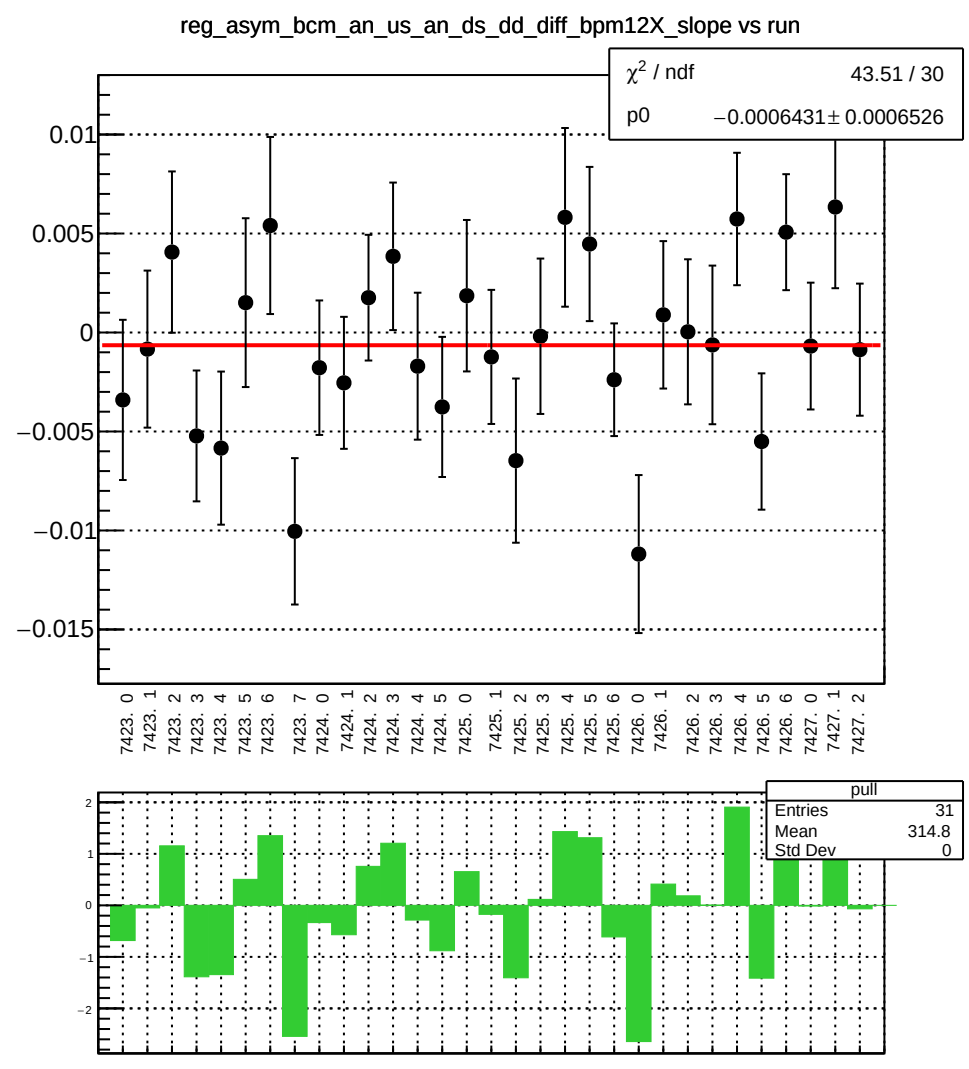

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 26.84 / 30
p0 −0.01266 ± 0.01492
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −29.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

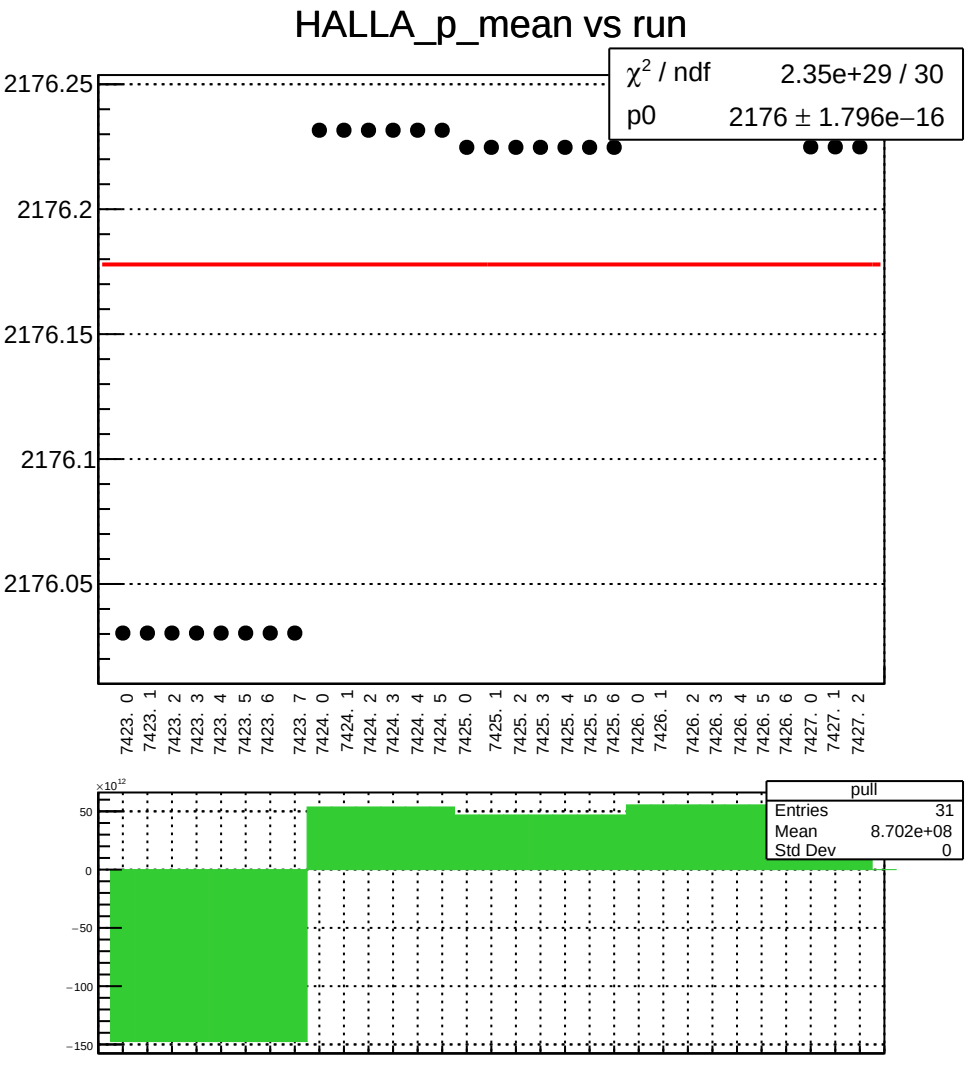

pull1D
Entries 31
Mean −0.02627
Std Dev 0.9301
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

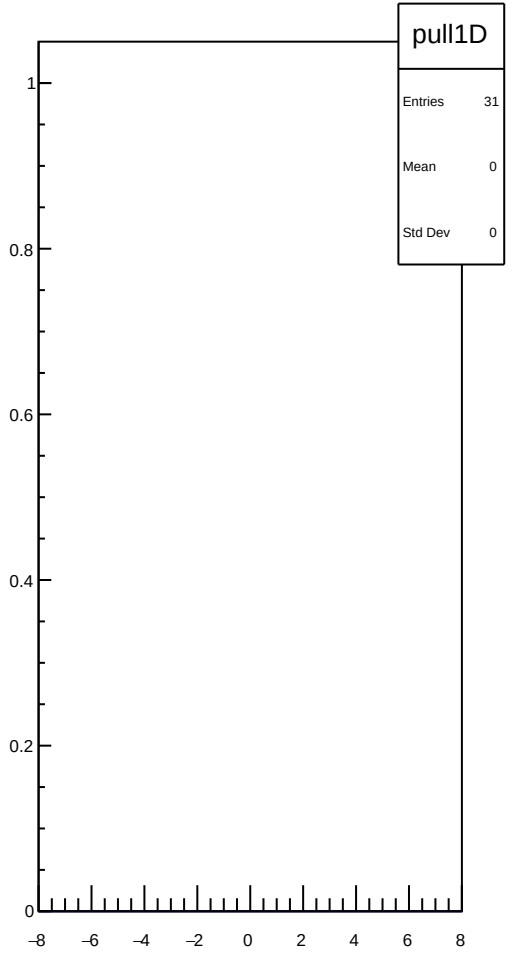

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.61 / 30
p0 −0.001279 ± 0.01431
pull
Entries 31
Mean −129.2
Std Dev 0
pull1D
Entries 31
Mean 0.01941
Std Dev 1.144

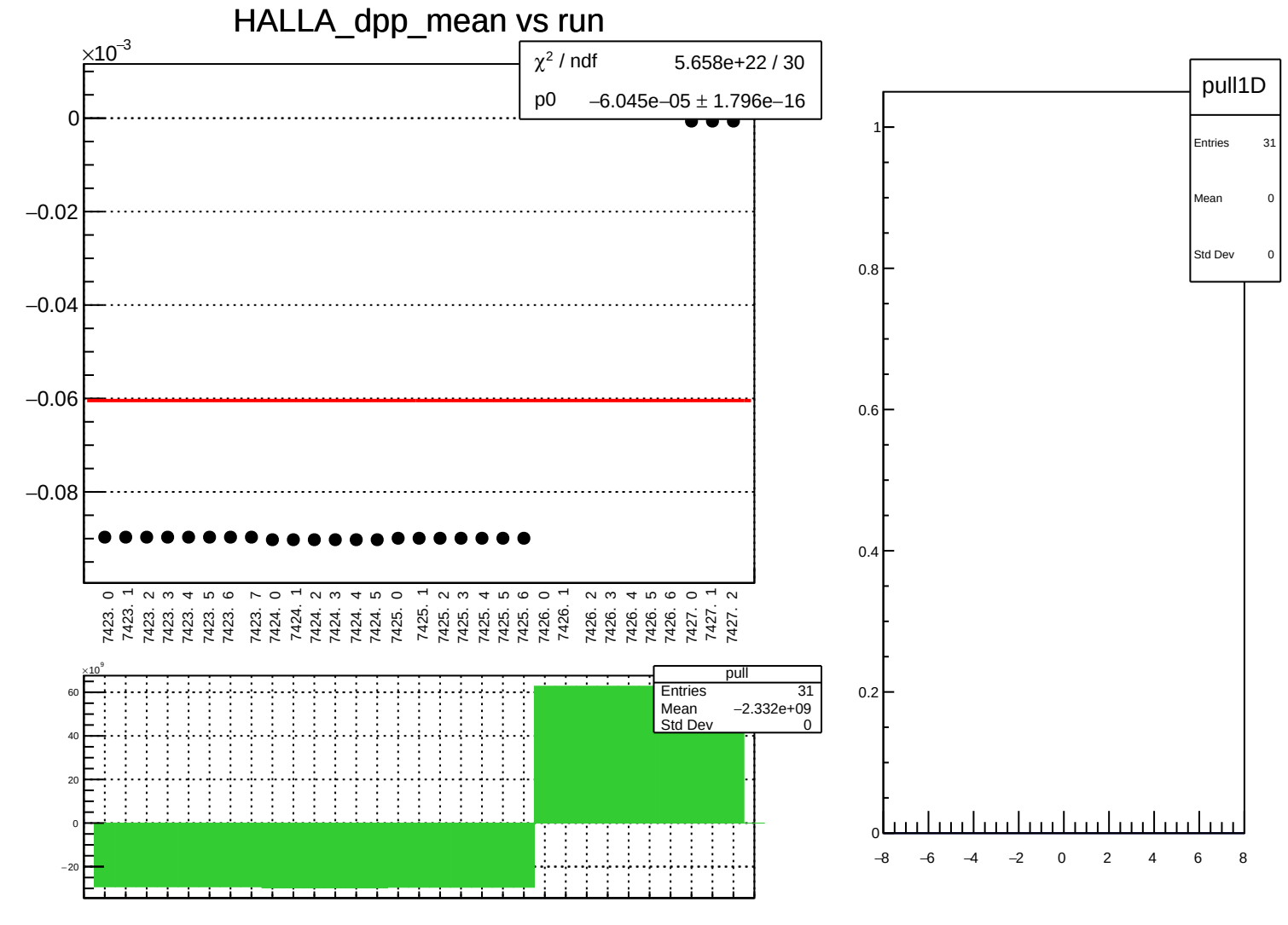

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.5 / 30
p0 −0.008105 ± 0.01542
0.4
0.3
0.2
0.1
0
−0.1
−0.2
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −25.11
Std Dev 0
3
2
1
0
−1
pull1D
Entries 31
Mean 0.02031
Std Dev 0.9917
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

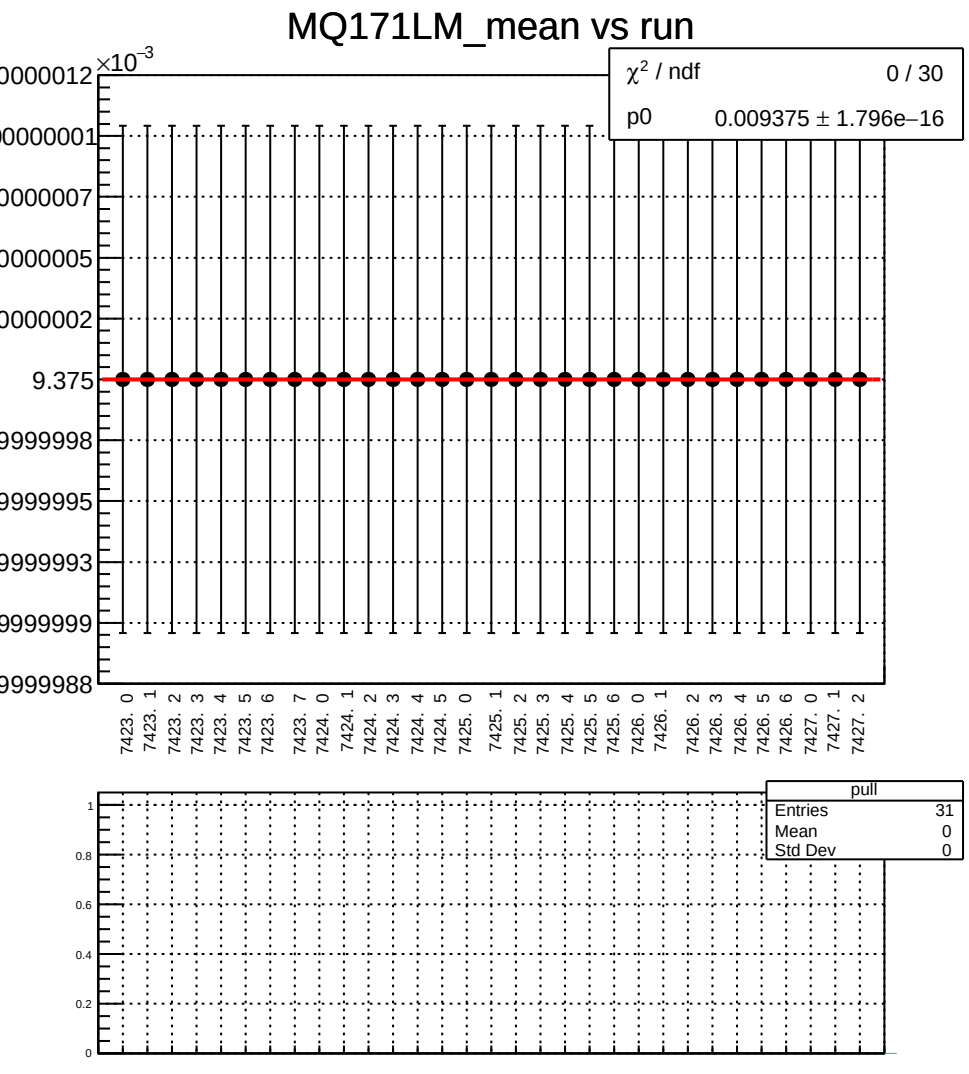

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.85 / 30
p0 −0.01005 ± 0.01521
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean −108.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.02623
Std Dev 1.133
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

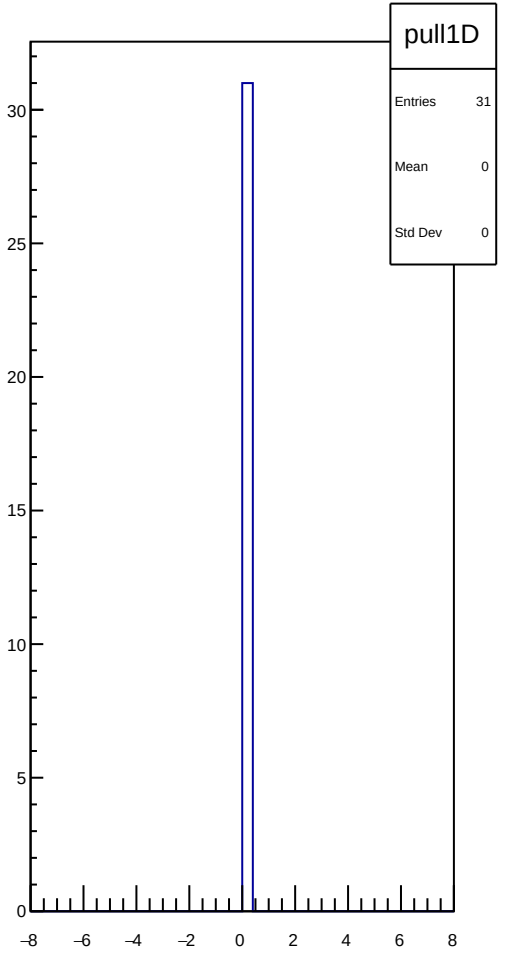

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 43.51 / 30
p0 −0.0006431 ± 0.0006526
0.01
0.005
0
−0.005
−0.01
−0.015
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 314.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.007868
Std Dev 1.185
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

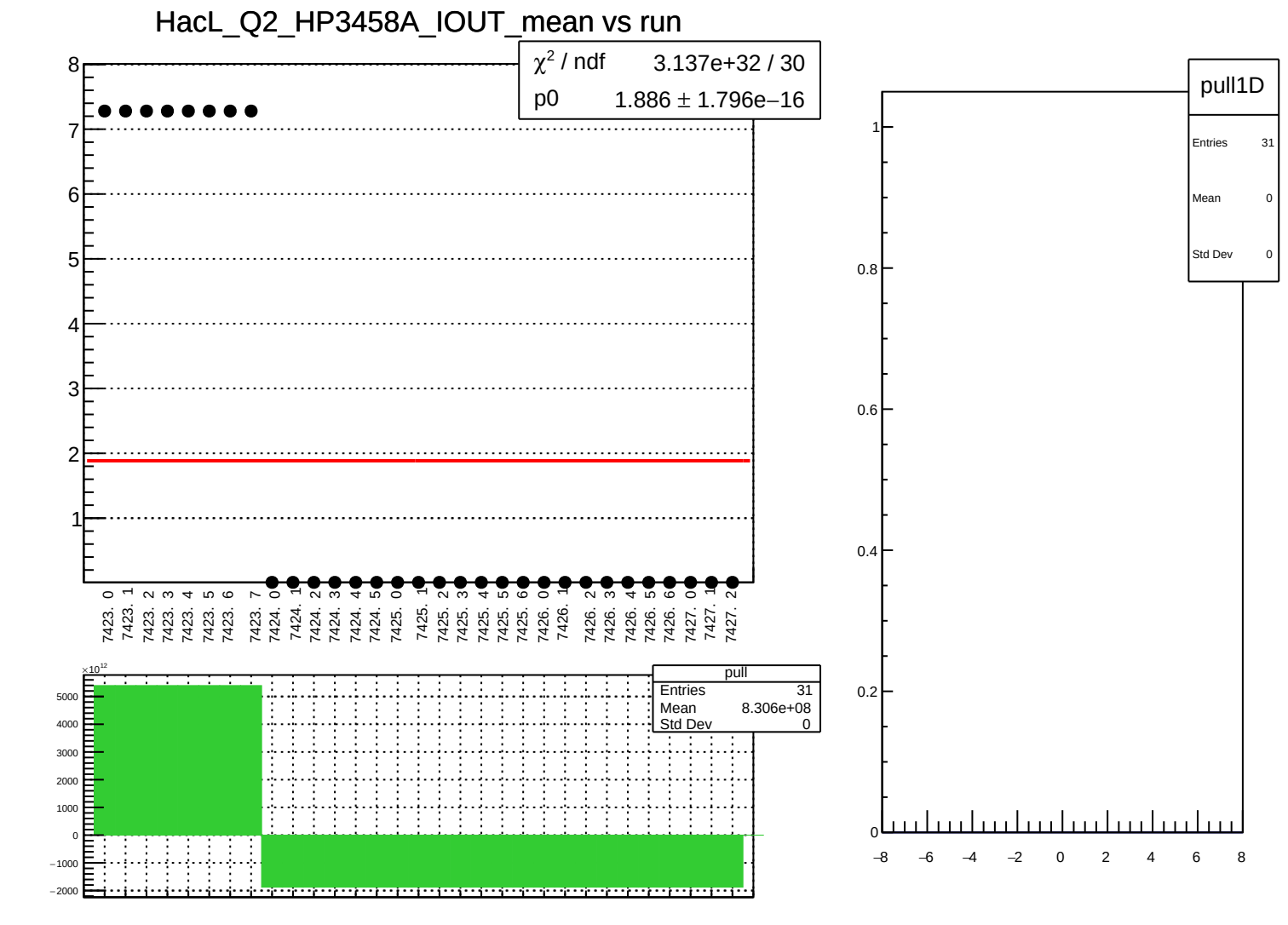

HALLA_p_mean vs run
χ² / ndf 2.35e+29 / 30
p0 2176 ± 1.796e−16
2176.25
2176.2
2176.15
2176.1
2176.05
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
×10¹²
50
0
−50
−100
−150
pull
Entries 31
Mean 8.702e+08
Std Dev 0

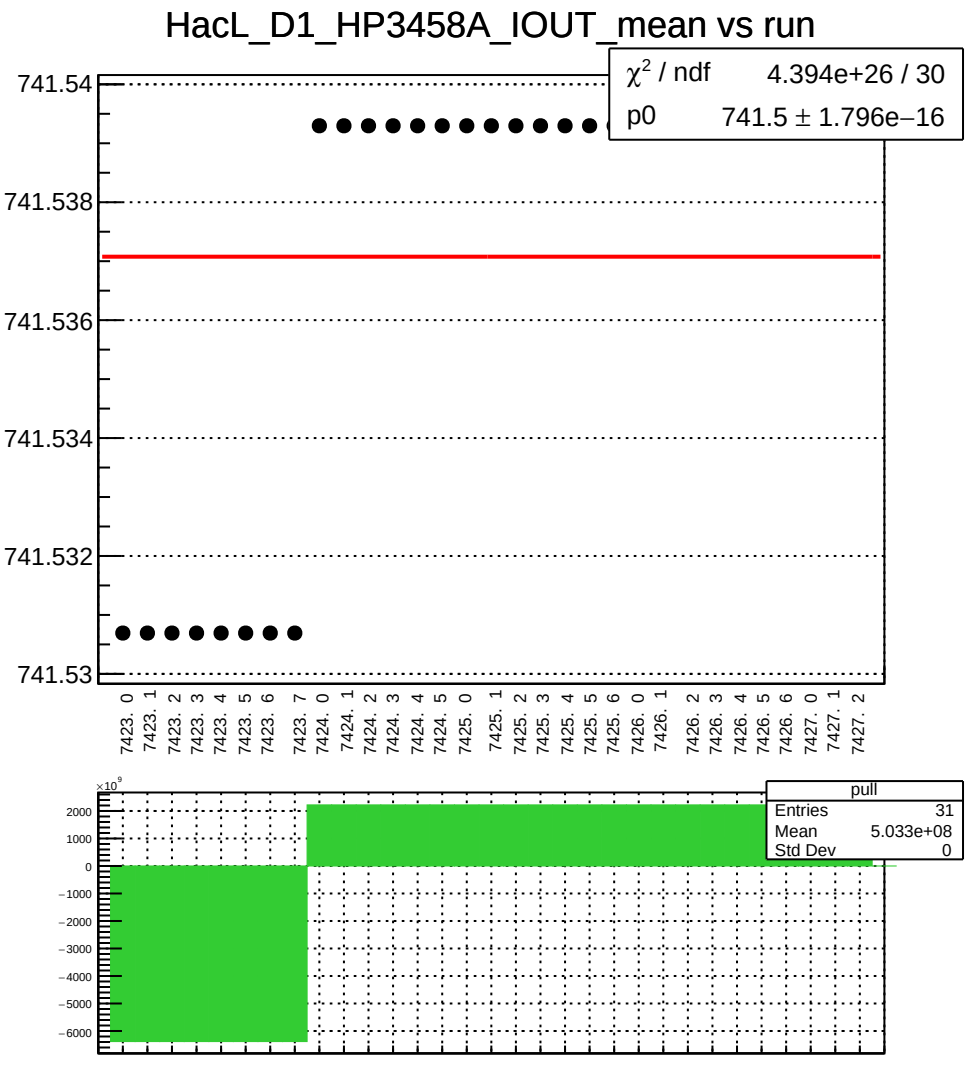

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

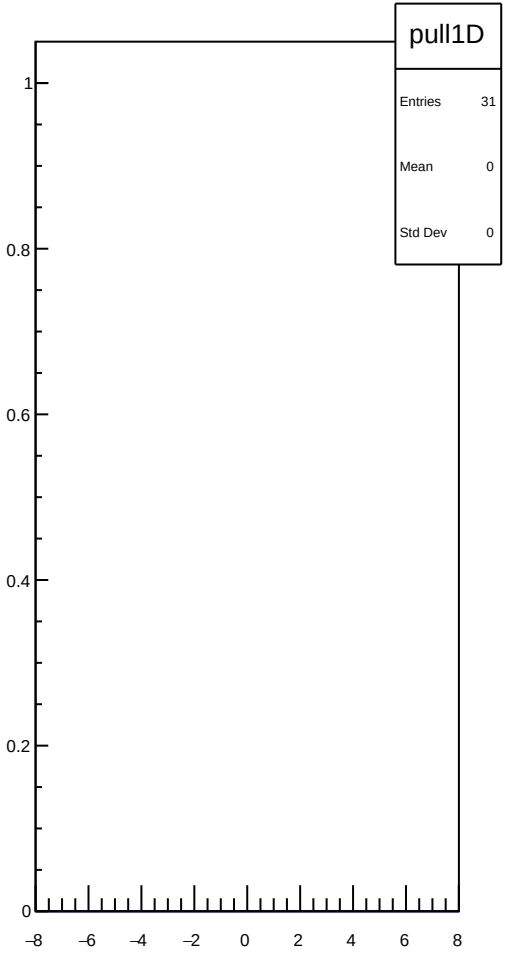

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 5.658e+22 / 30
p0 −6.045e−05 ± 1.796e−16
0
−0.02
−0.04
−0.06
−0.08
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
×10⁹
pull
Entries 31
Mean −2.332e+09
Std Dev 0
60
40
20
0
−20
pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

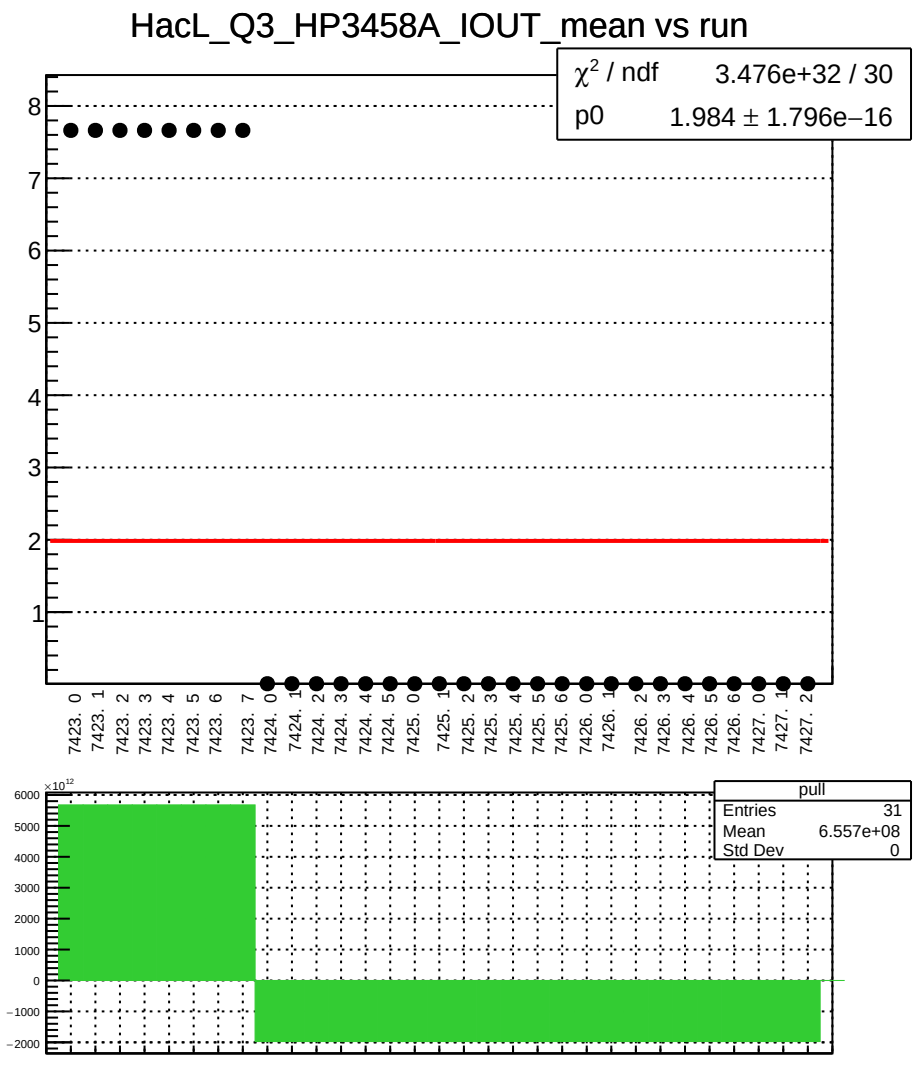

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0 / 30
p0 0.009375 ± 1.796e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

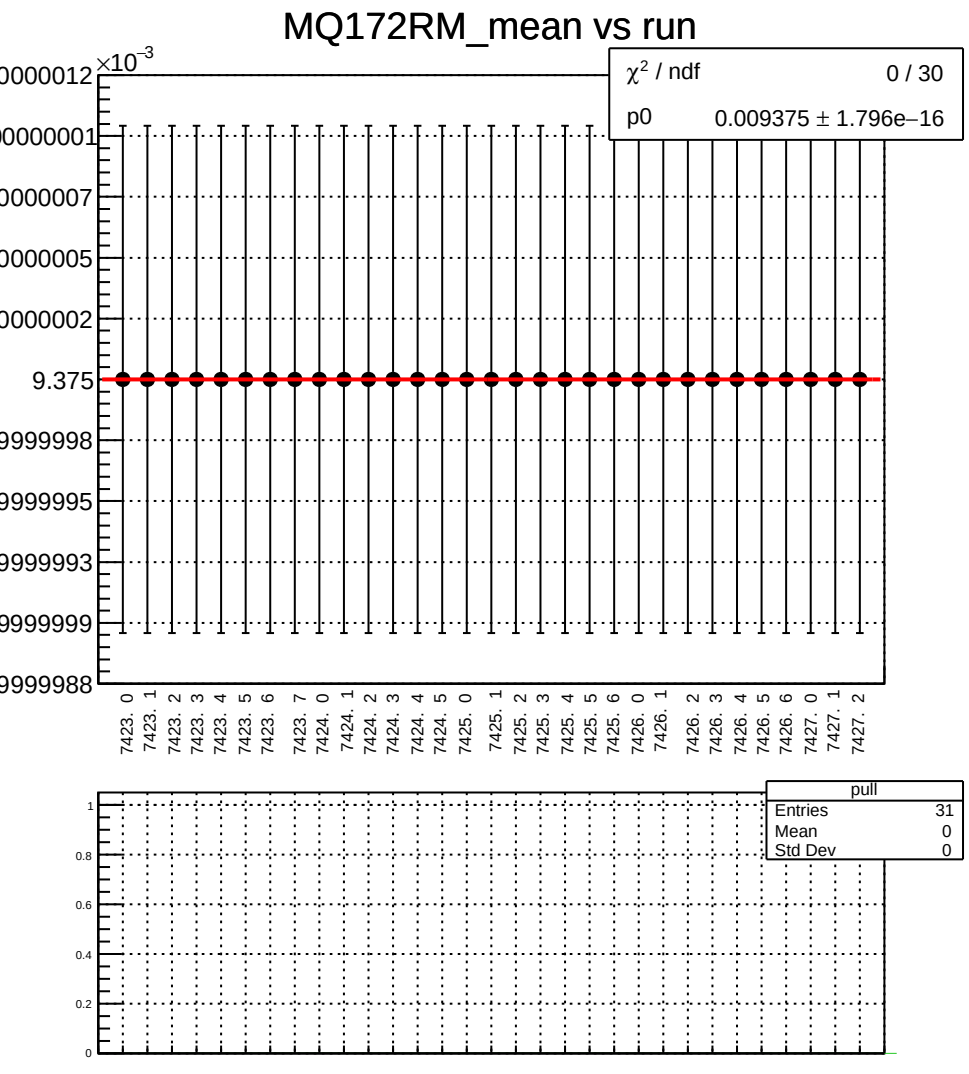

pull1D
Entries 31
Mean 0
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

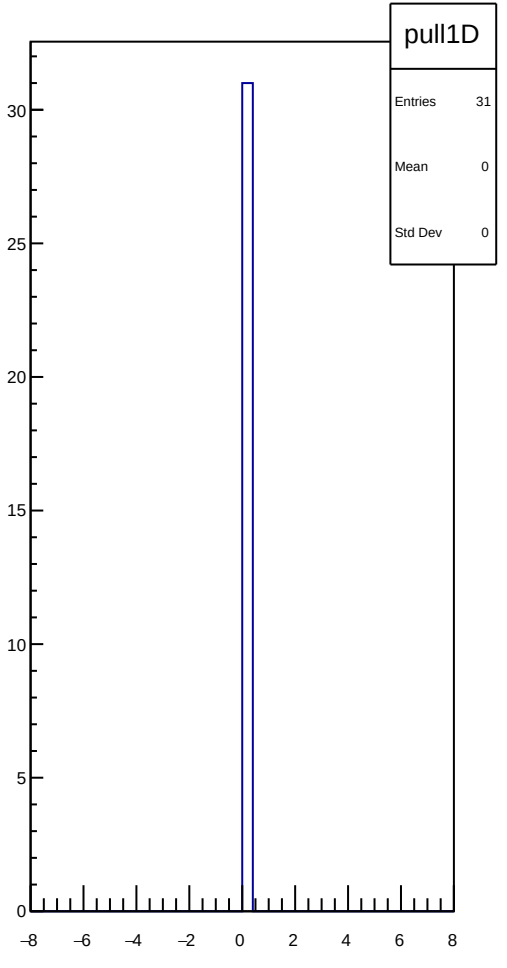

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.137e+32 / 30
p0 1.886 ± 1.796e−16
pull
Entries 31
Mean 8.306e+08
Std Dev 0
pull1D
Entries 31
Mean 0
Std Dev 0

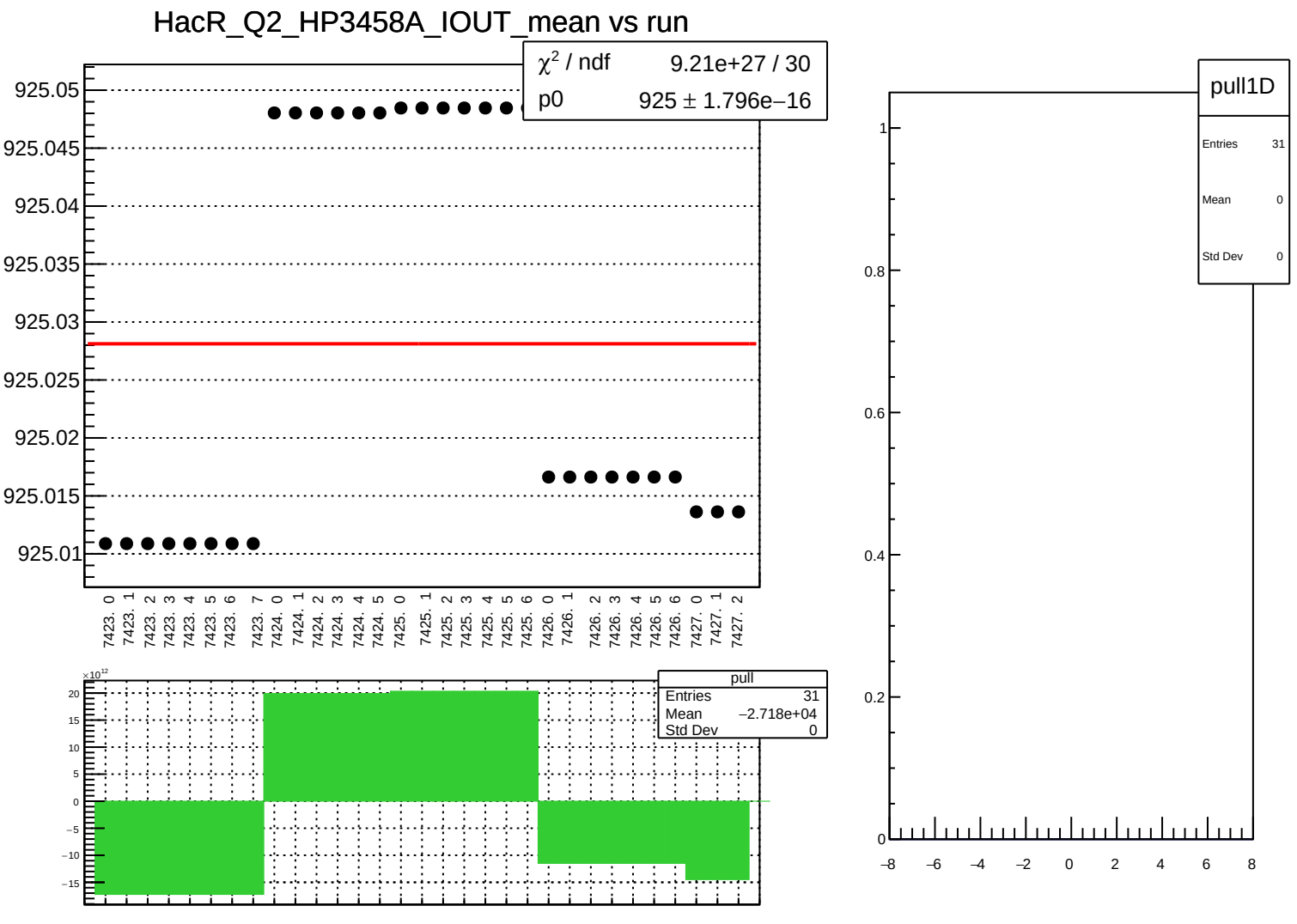

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 4.394e+26 / 30
p0 741.5 ± 1.796e−16
741.54
741.538
741.536
741.534
741.532
741.53
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
×10⁹
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
pull
Entries 31
Mean 5.033e+08
Std Dev 0

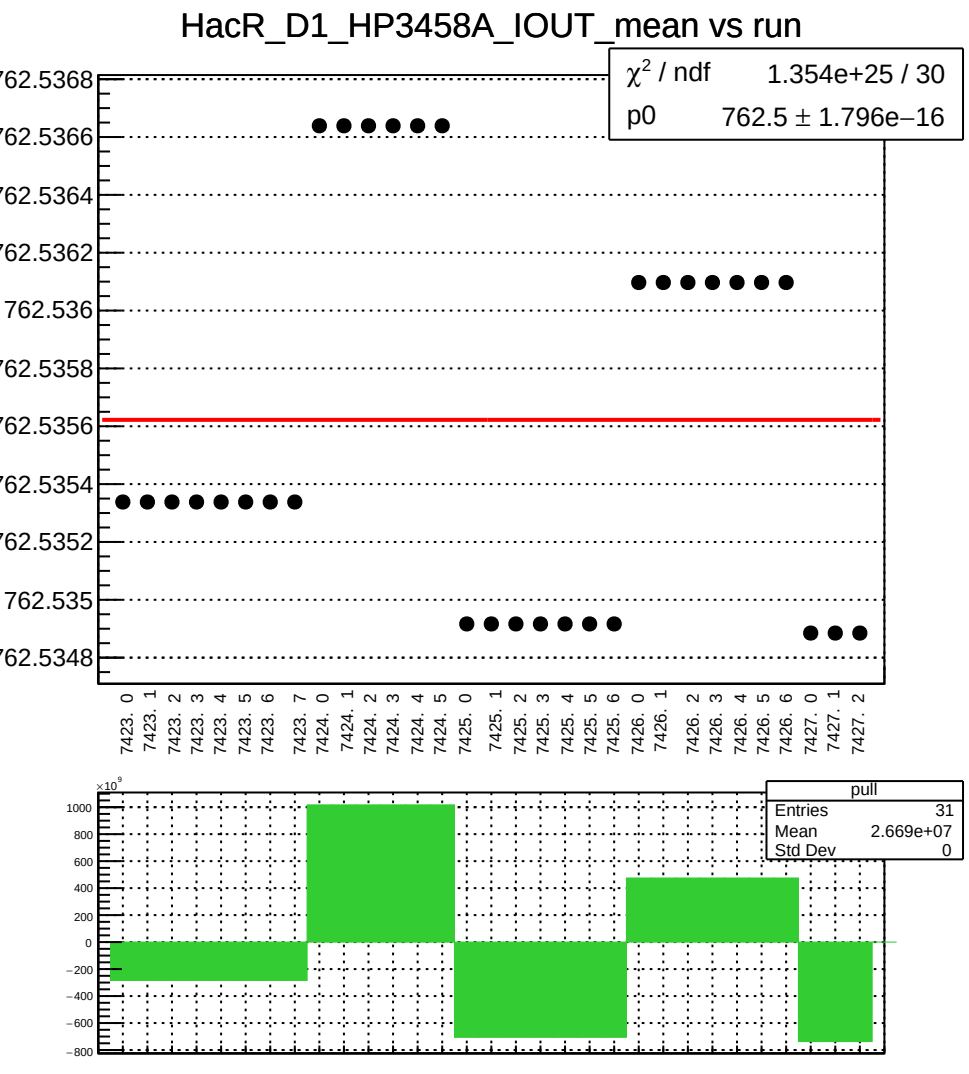

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

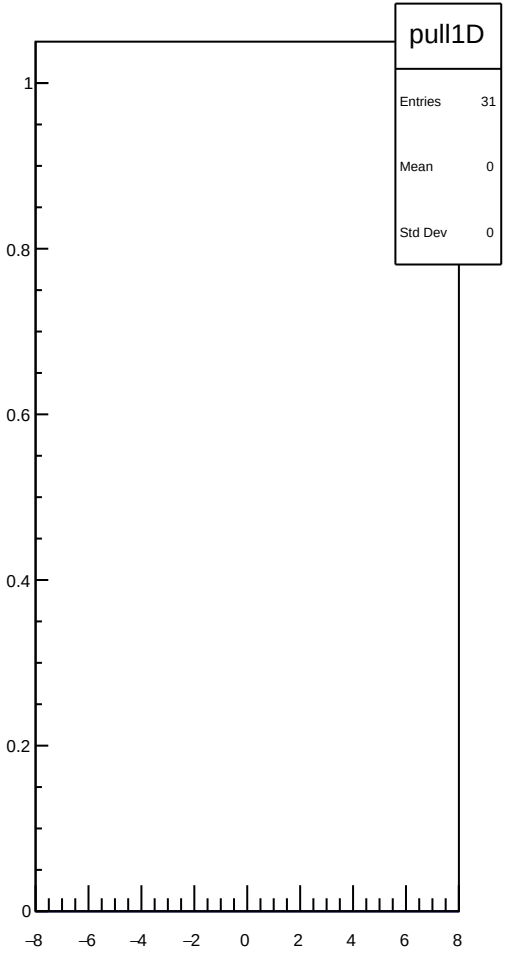

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.476e+32 / 30
p0 1.984 ± 1.796e−16
8
7
6
5
4
3
2
1
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
×10¹²
6000
5000
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 31
Mean 6.557e+08
Std Dev 0
pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

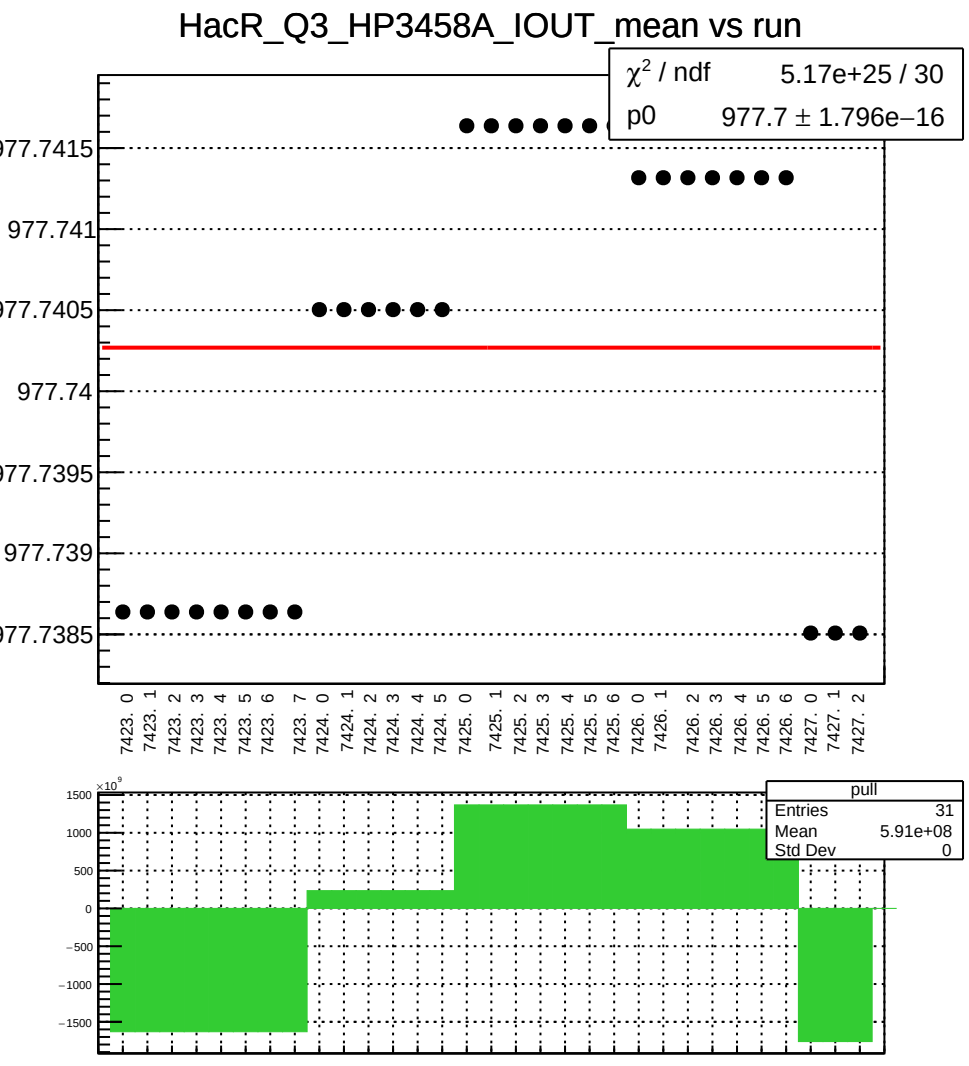

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0 / 30
p0 0.009375 ± 1.796e−16
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 0
Std Dev 0

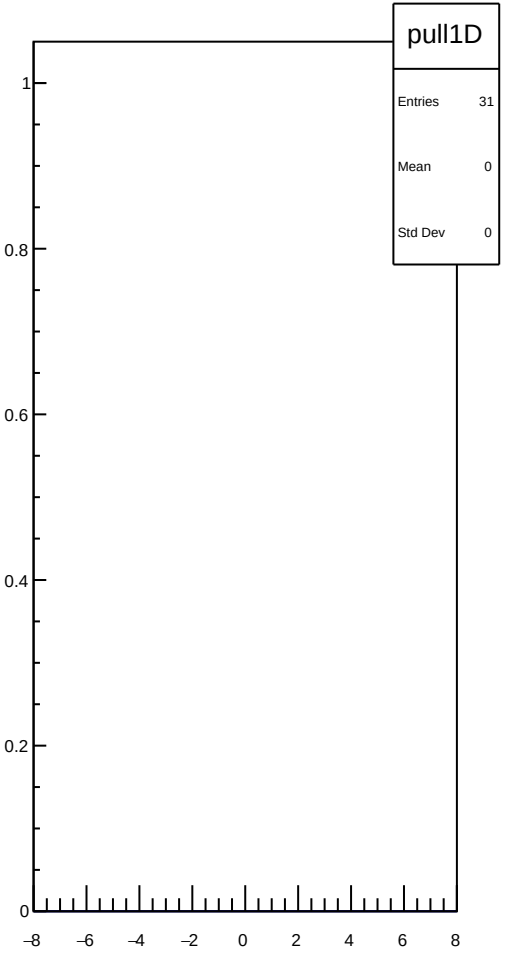

pull1D
Entries 31
Mean 0
Std Dev 0

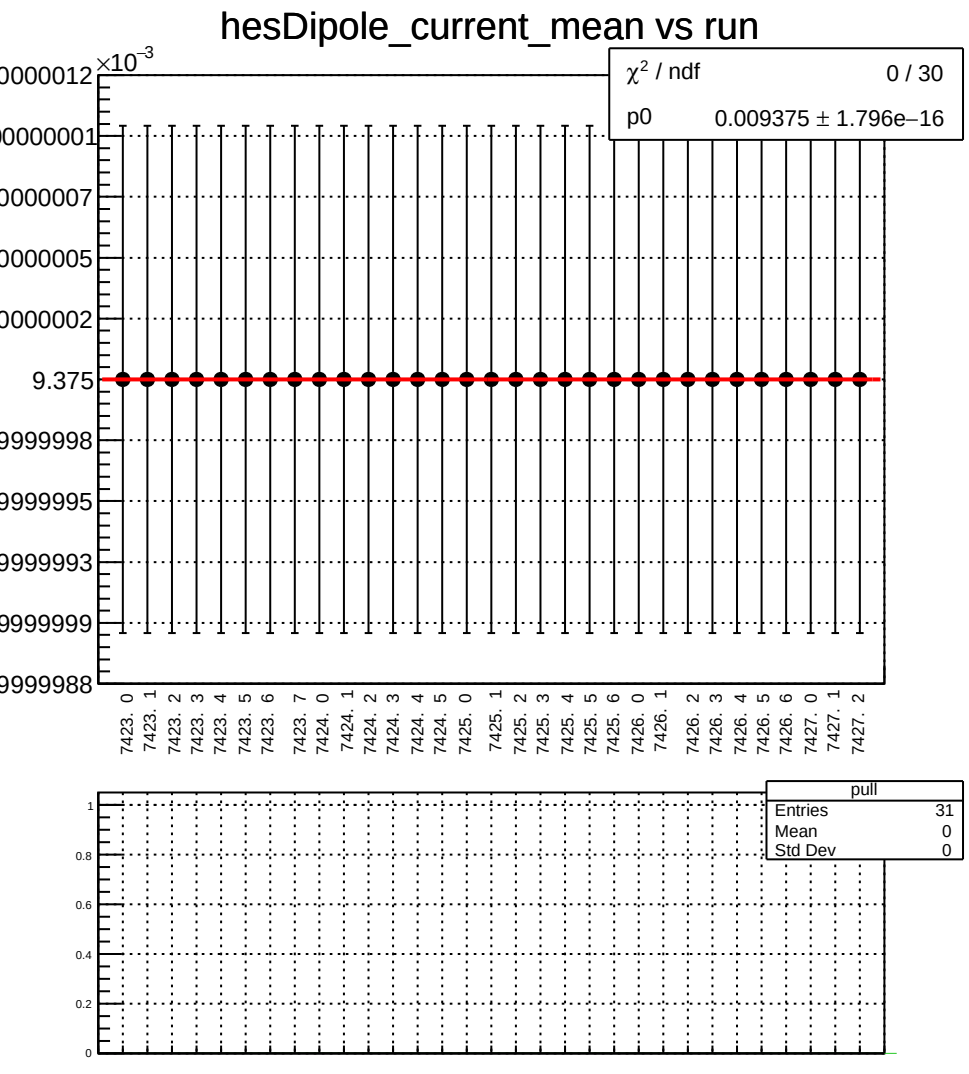

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 9.21e+27 / 30
p0 925 ± 1.796e−16
925.05
925.045
925.04
925.035
925.03
925.025
925.02
925.015
925.01
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
×10¹²
20
15
10
5
0
−5
−10
−15
pull
Entries 31
Mean −2.718e+04
Std Dev 0
pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

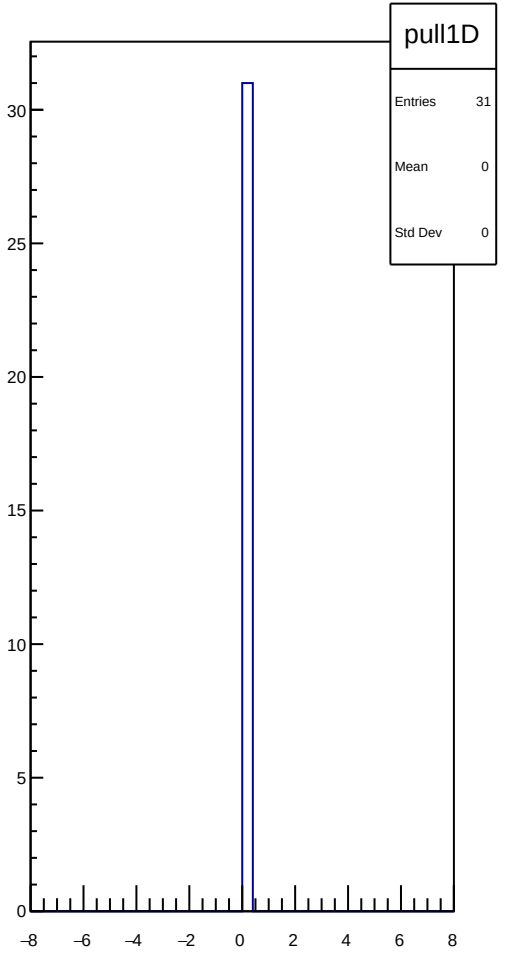

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.354e+25 / 30
p0 762.5 ± 1.796e−16
762.5368
762.5366
762.5364
762.5362
762.536
762.5358
762.5356
762.5354
762.5352
762.535
762.5348
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
×10⁹
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 31
Mean 2.669e+07
Std Dev 0

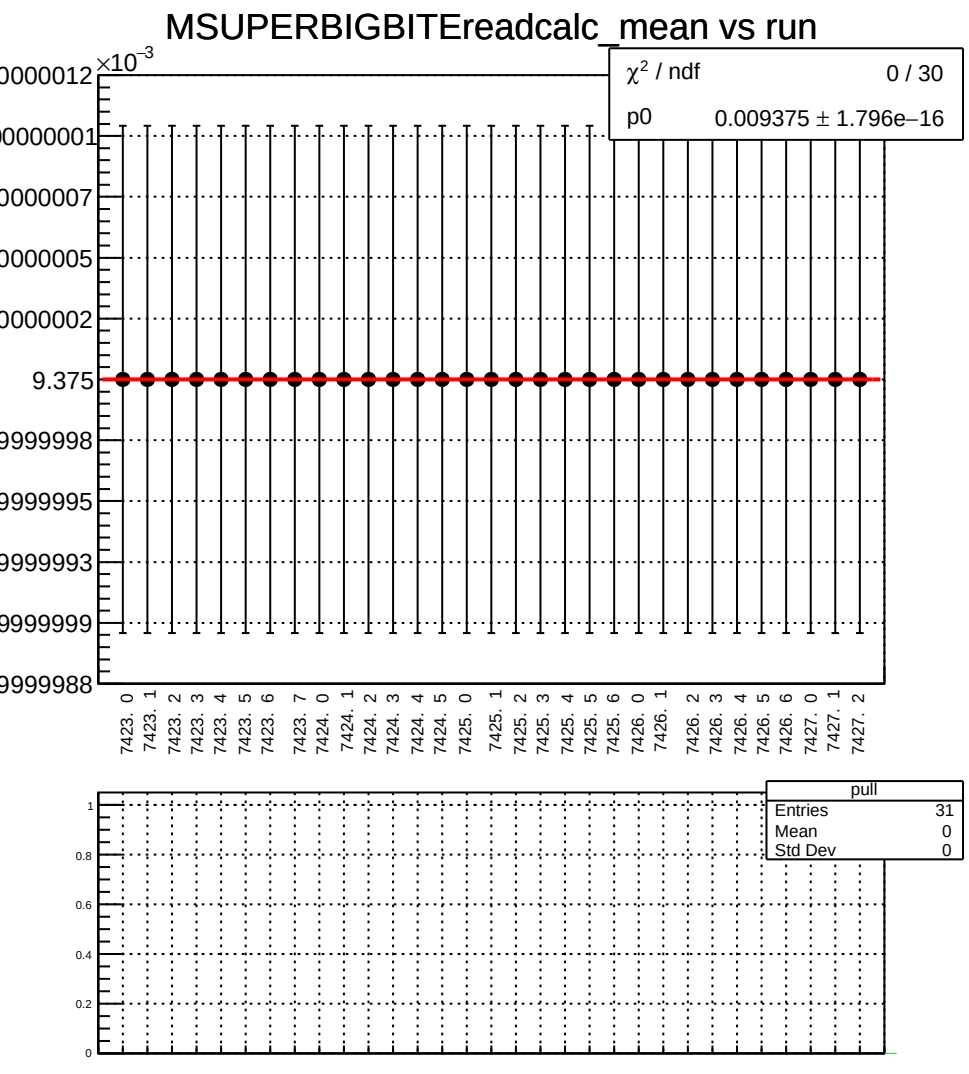

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

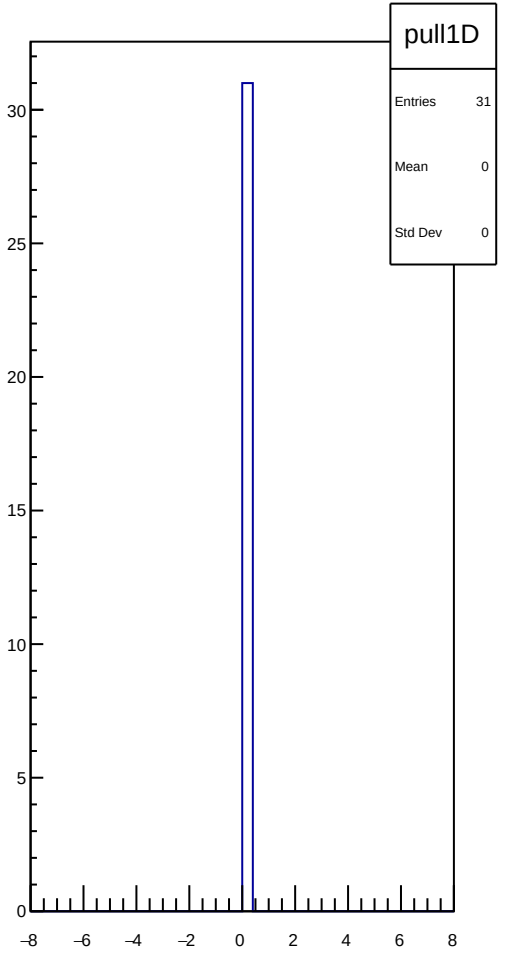

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.17e+25 / 30
p0 977.7 ± 1.796e−16
977.7415
977.741
977.7405
977.74
977.7395
977.739
977.7385
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
×10⁹
1500
1000
500
0
−500
−1000
−1500
pull
Entries 31
Mean 5.91e+08
Std Dev 0

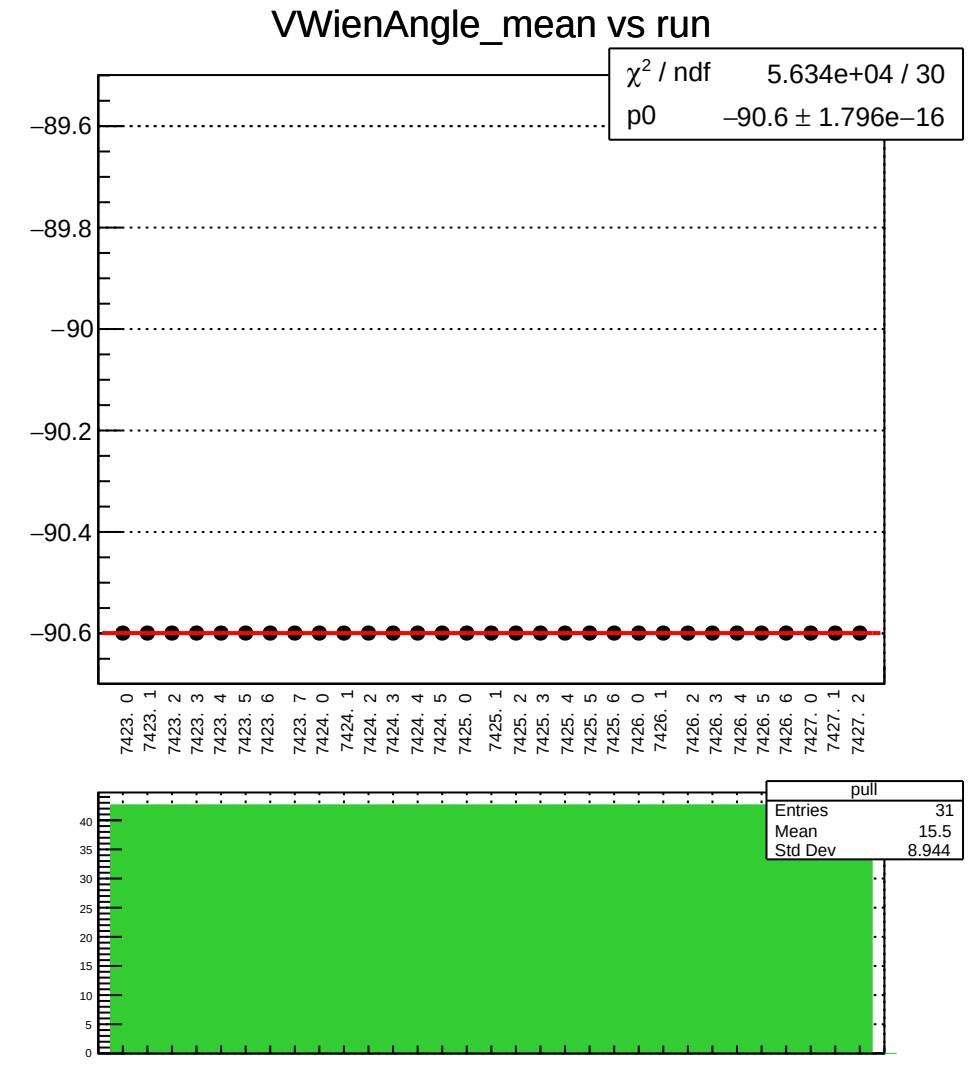

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

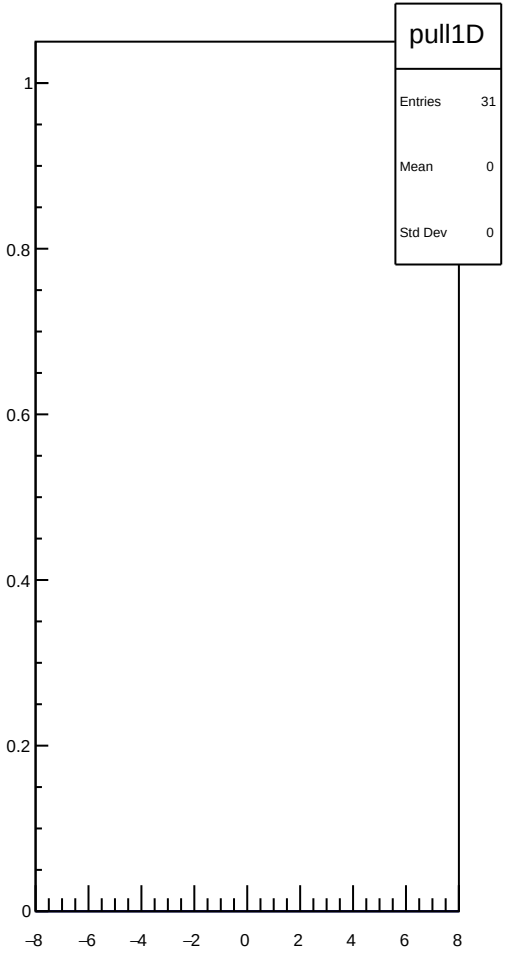

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0 / 30
p0 0.009375 ± 1.796e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

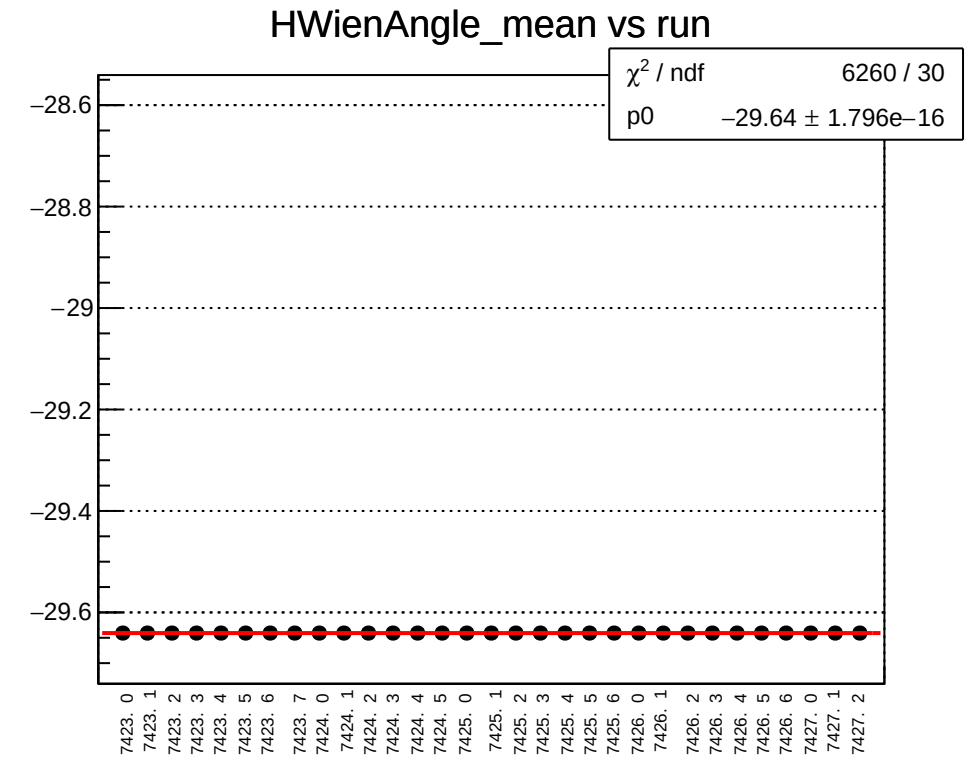

pull1D
Entries 31
Mean 0
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

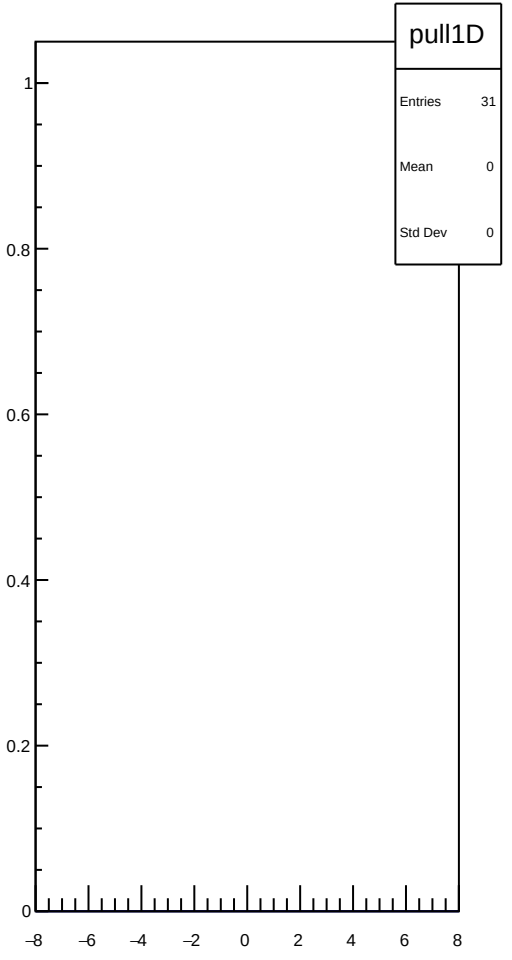

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0 / 30
p0 0.009375 ± 1.796e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

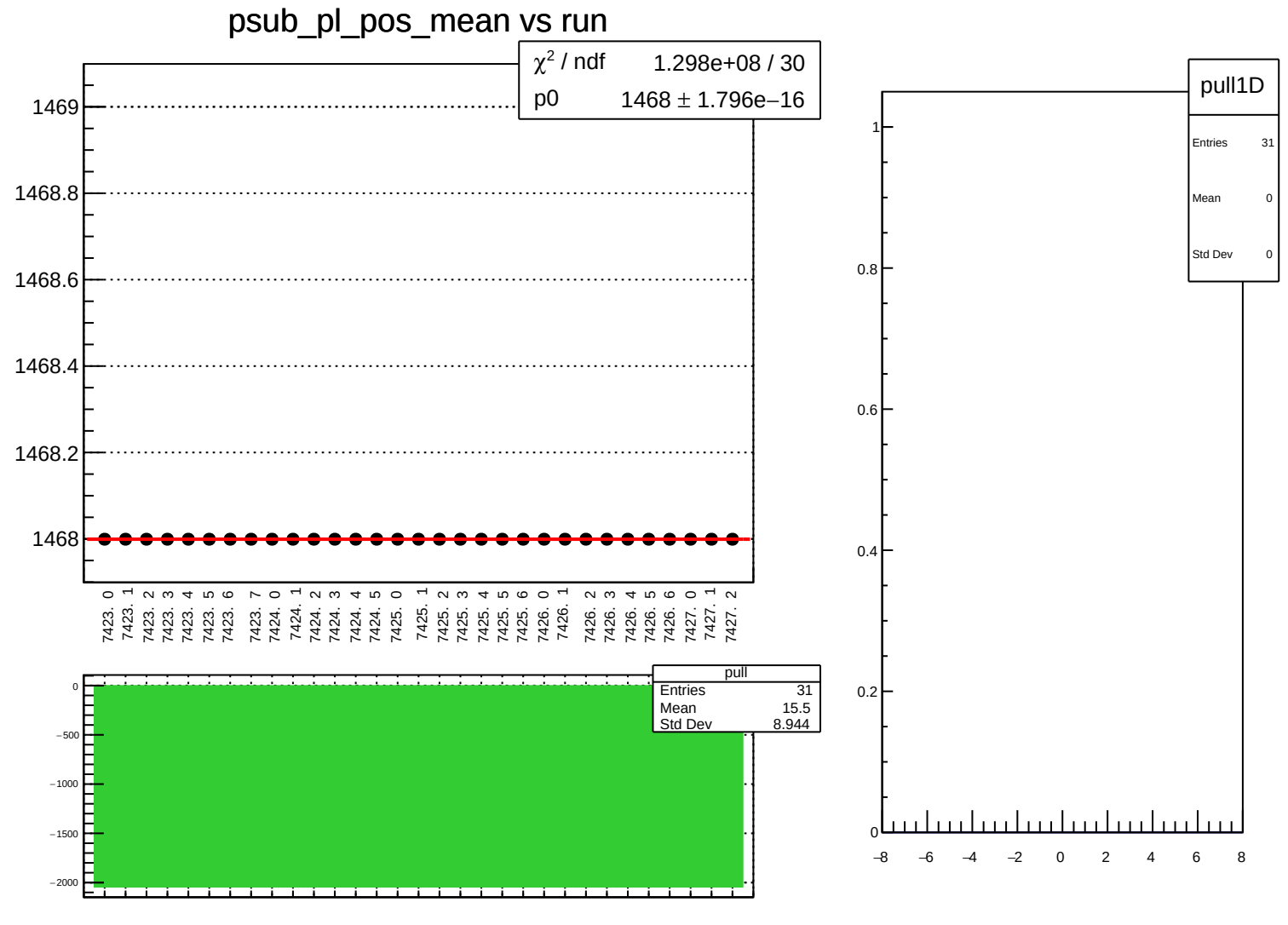

pull1D
Entries 31
Mean 0
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

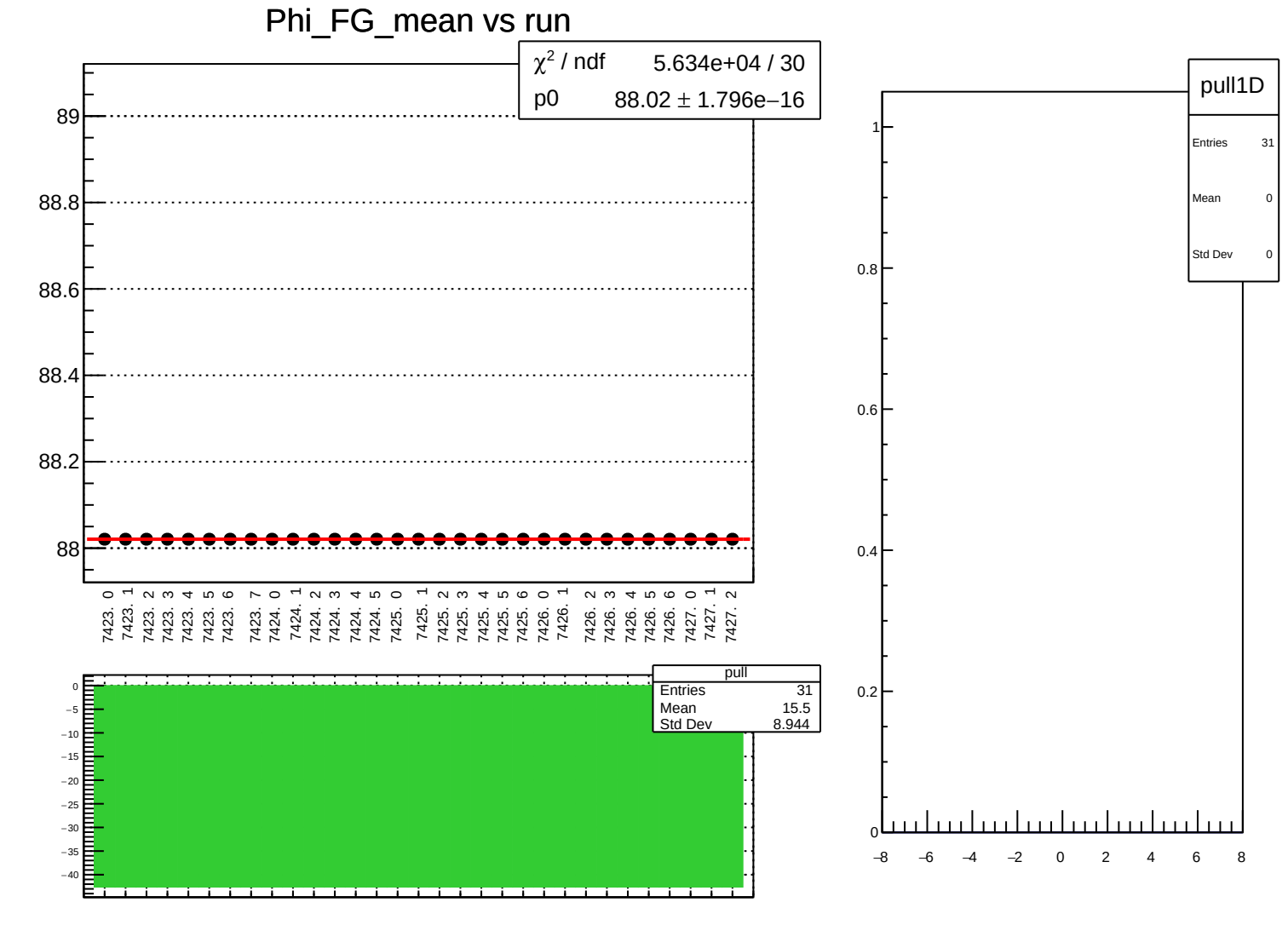

VWienAngle_mean vs run
χ² / ndf 5.634e+04 / 30
p0 −90.6 ± 1.796e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.5
Std Dev 8.944
0
5
10
15
20
25
30
35
40

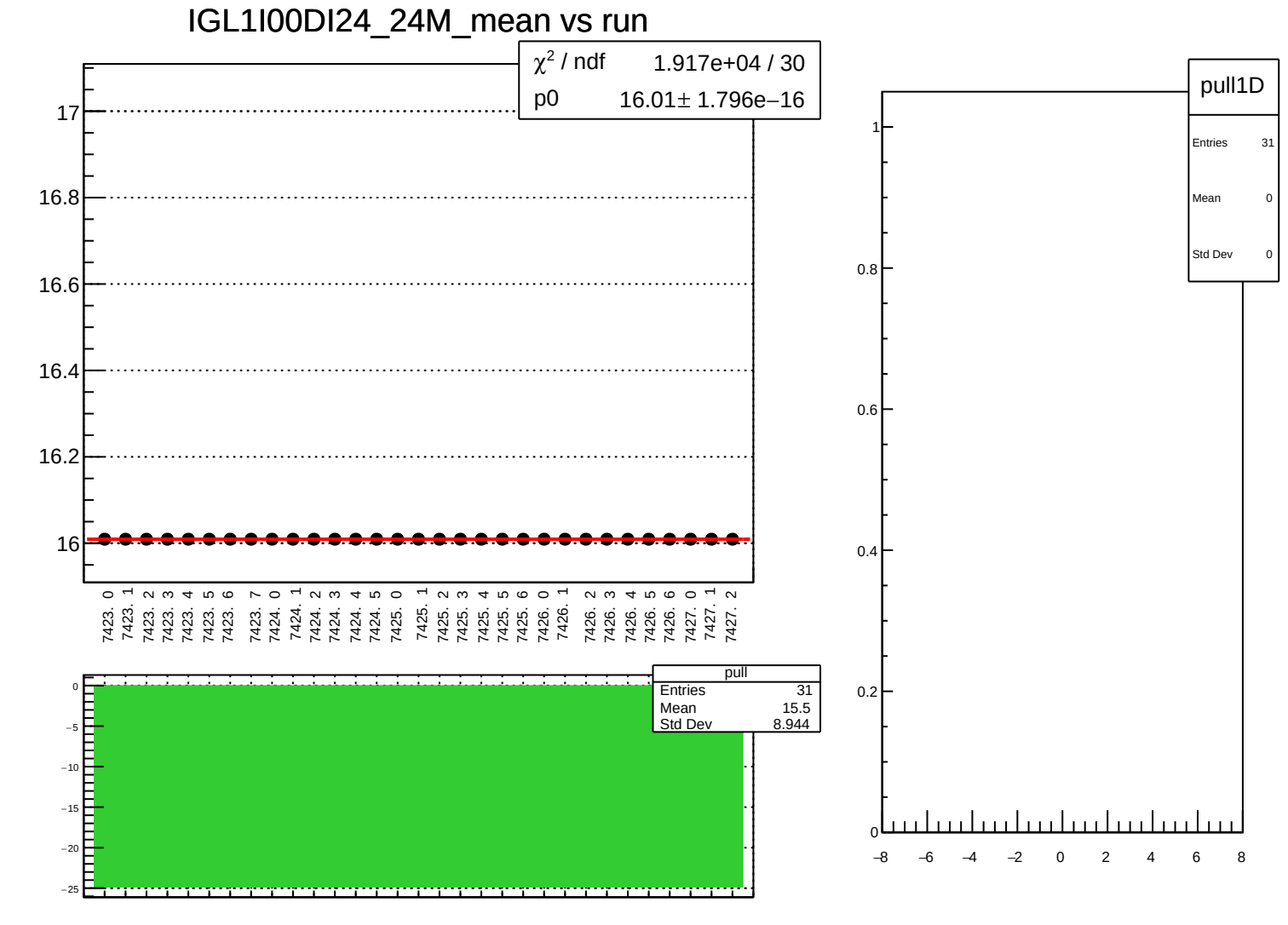

pull1D
Entries 31
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

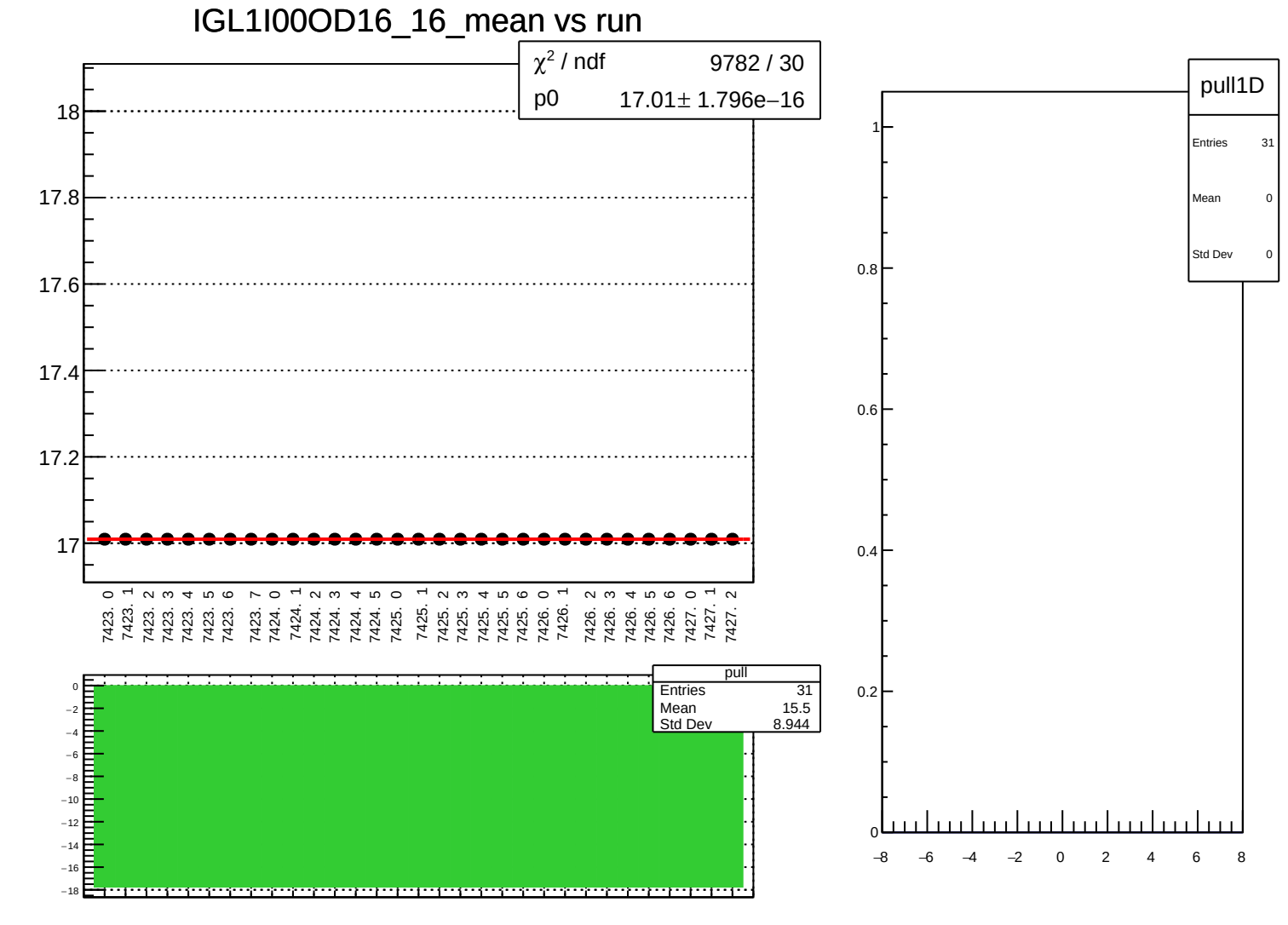

HWienAngle_mean vs run
χ² / ndf 6260 / 30
p0 −29.64 ± 1.796e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.5
Std Dev 8.944
0
2
4
6
8
10
12
14

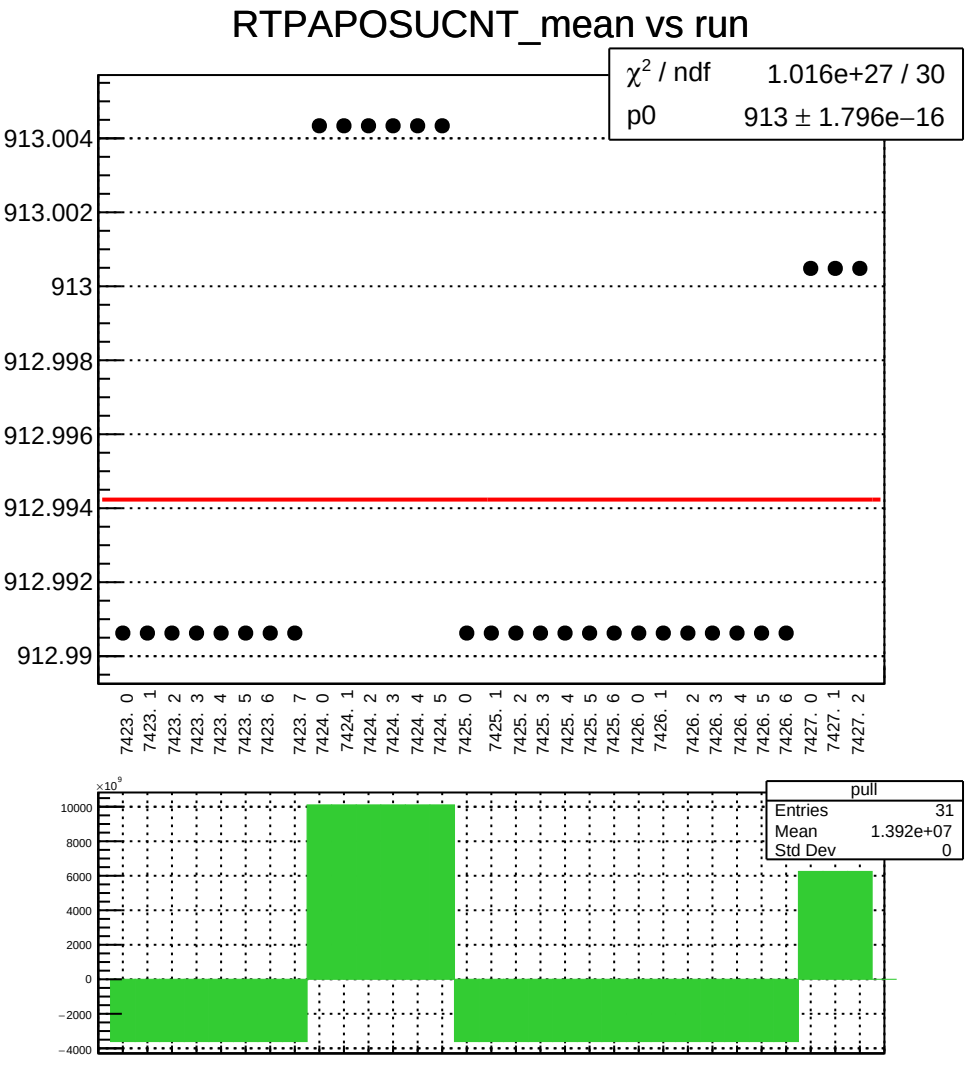

pull1D
Entries 31
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

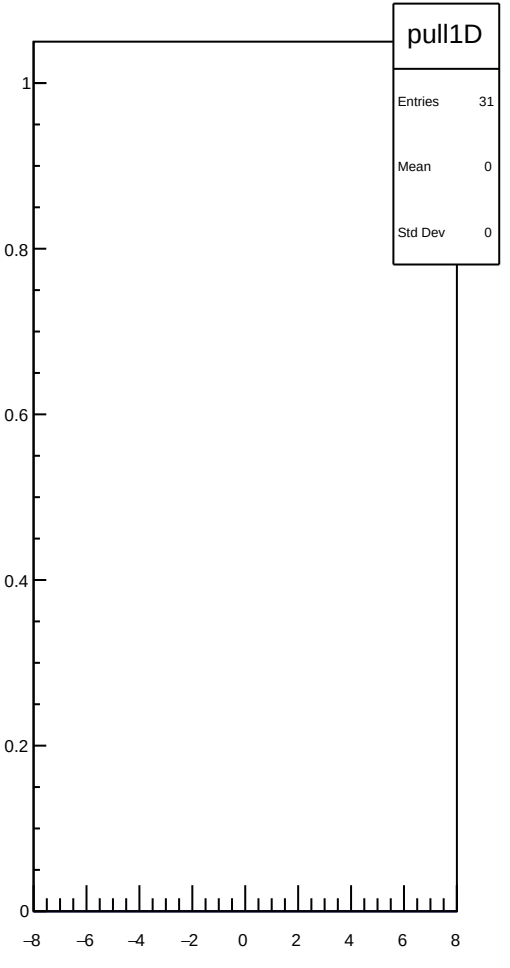

psub_pl_pos_mean vs run
χ² / ndf 1.298e+08 / 30
p0 1468 ± 1.796e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.5
Std Dev 8.944
0
−500
−1000
−1500
−2000
pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

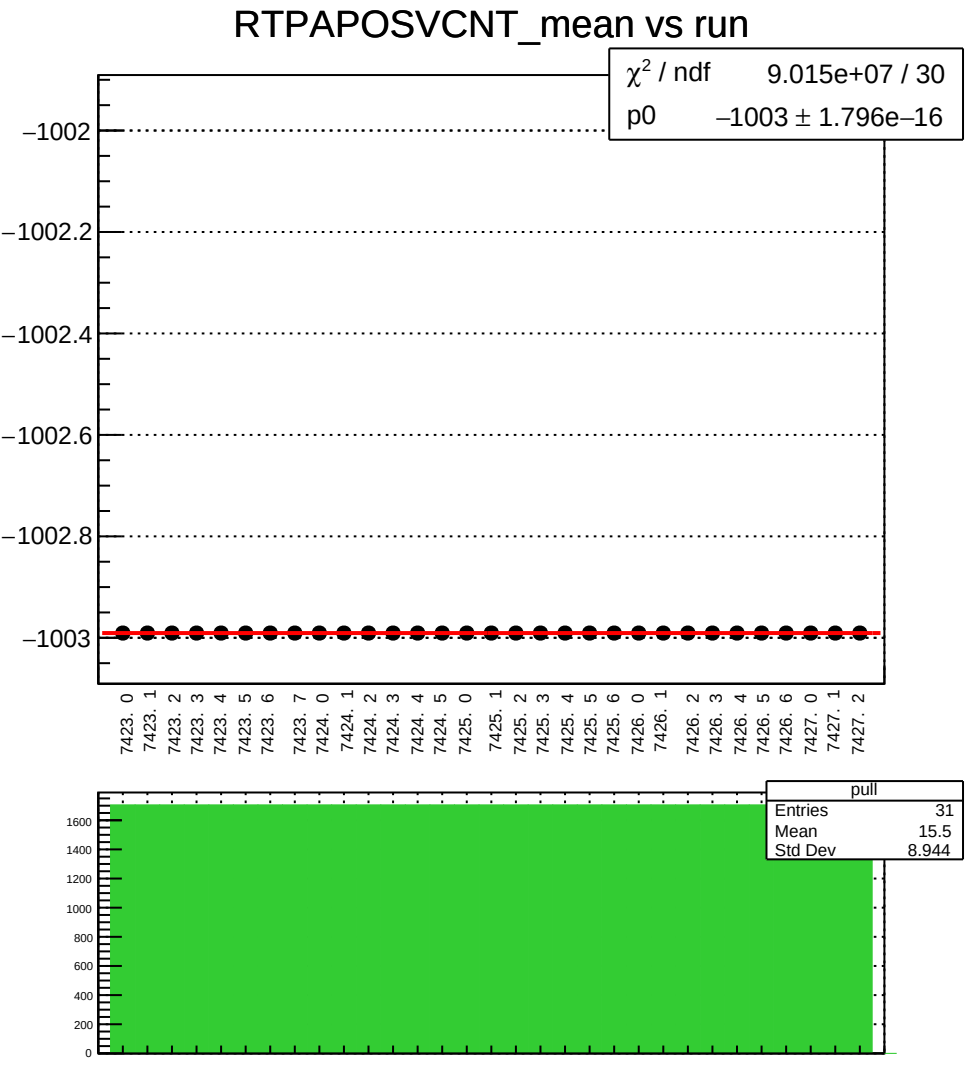

Phi_FG_mean vs run
χ² / ndf 5.634e+04 / 30
p0 88.02 ± 1.796e−16
89
88.8
88.6
88.4
88.2
88
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.5
Std Dev 8.944
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

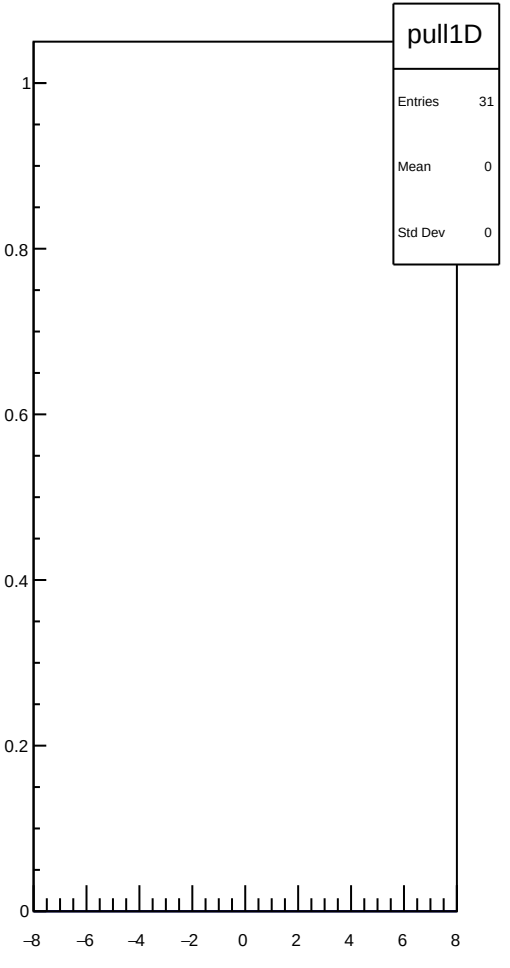

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.917e+04 / 30
p0 16.01± 1.796e−16
17
16.8
16.6
16.4
16.2
16
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.5
Std Dev 8.944
0
−5
−10
−15
−20
−25
pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

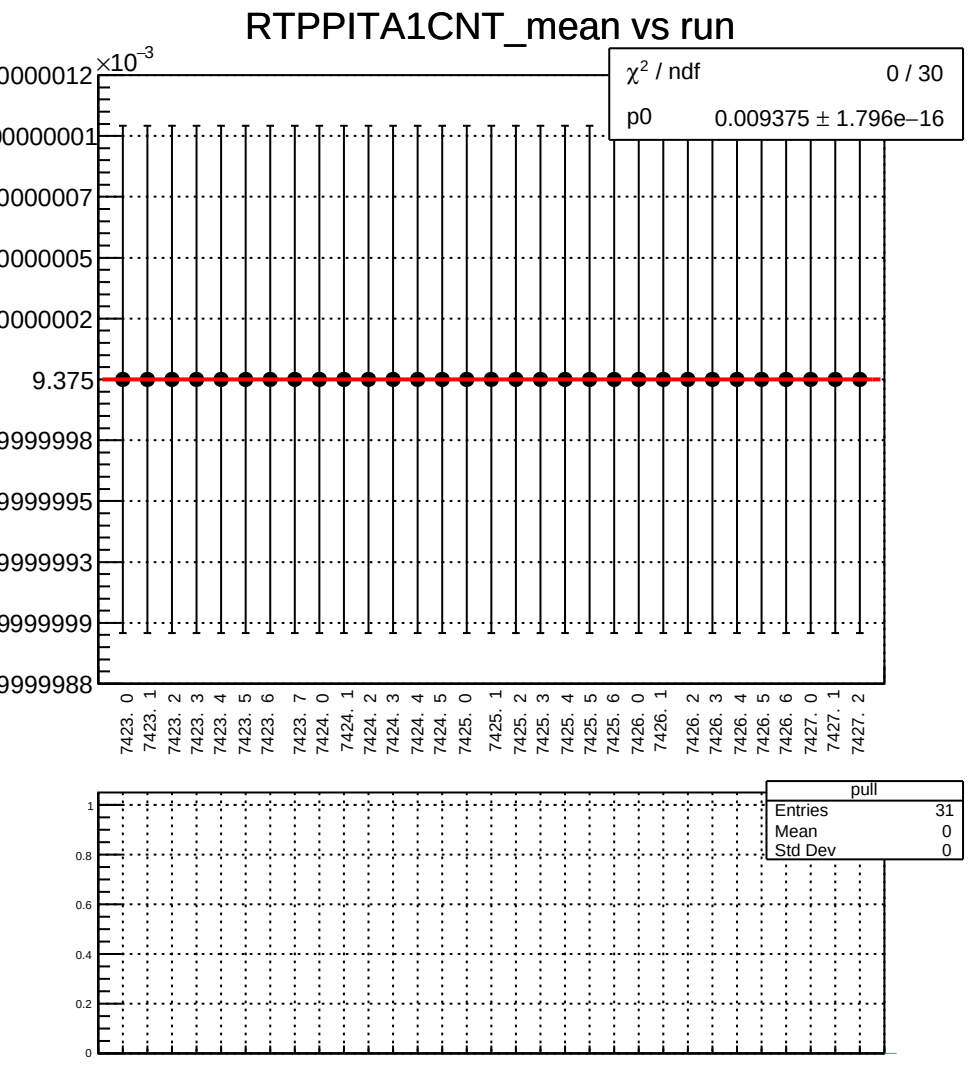

IGL1I00OD16_16_mean vs run
χ² / ndf 9782 / 30
p0 17.01± 1.796e−16
18
17.8
17.6
17.4
17.2
17
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.5
Std Dev 8.944
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

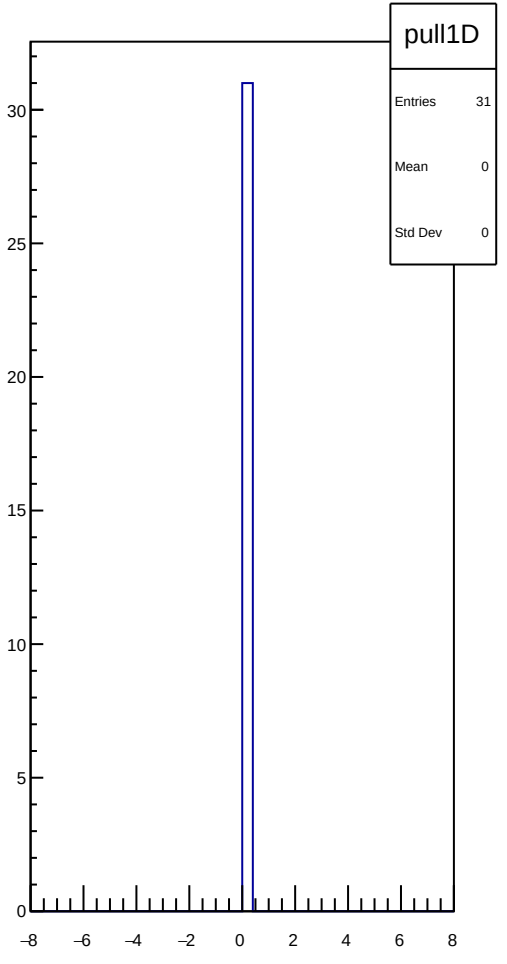

RTPAPOSUCNT_mean vs run
χ² / ndf 1.016e+27 / 30
p0 913 ± 1.796e−16
913.004
913.002
913
912.998
912.996
912.994
912.992
912.99
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
×10⁹
10000
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 31
Mean 1.392e+07
Std Dev 0

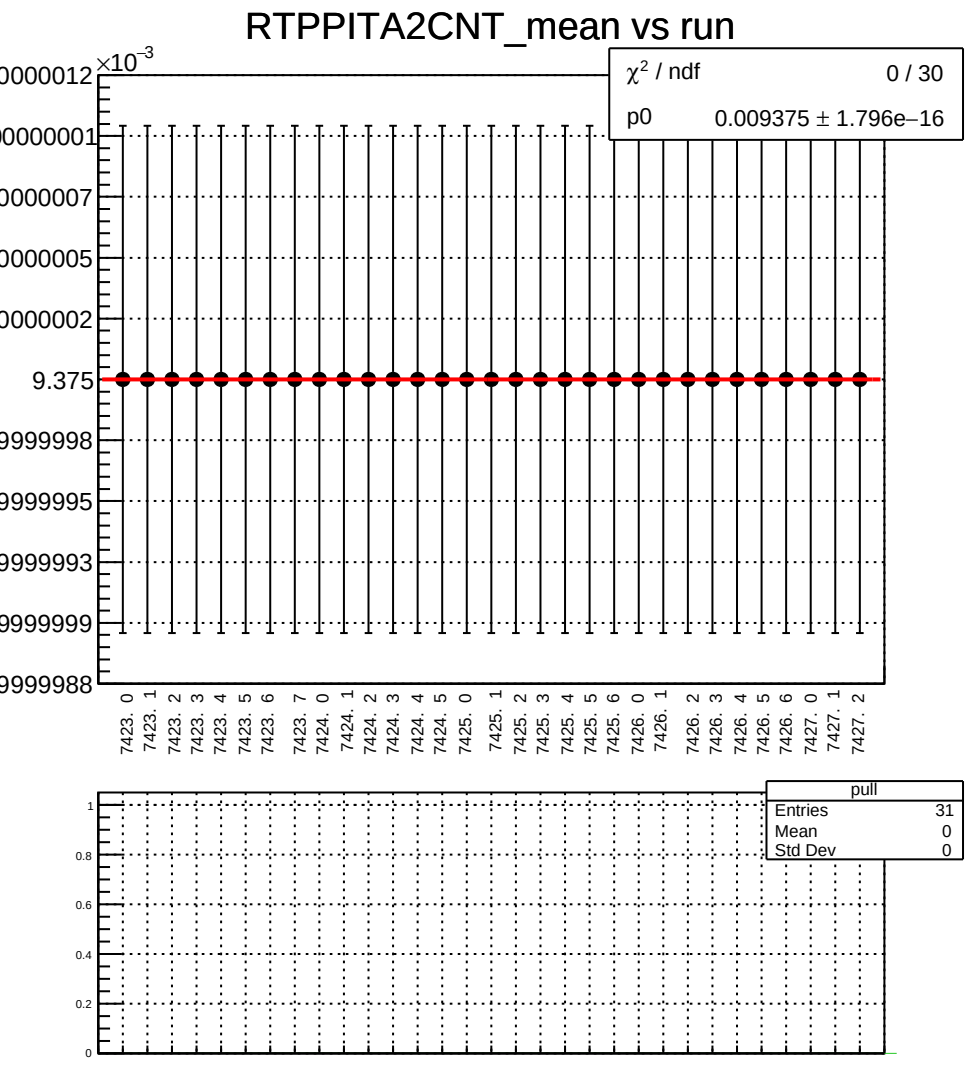

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

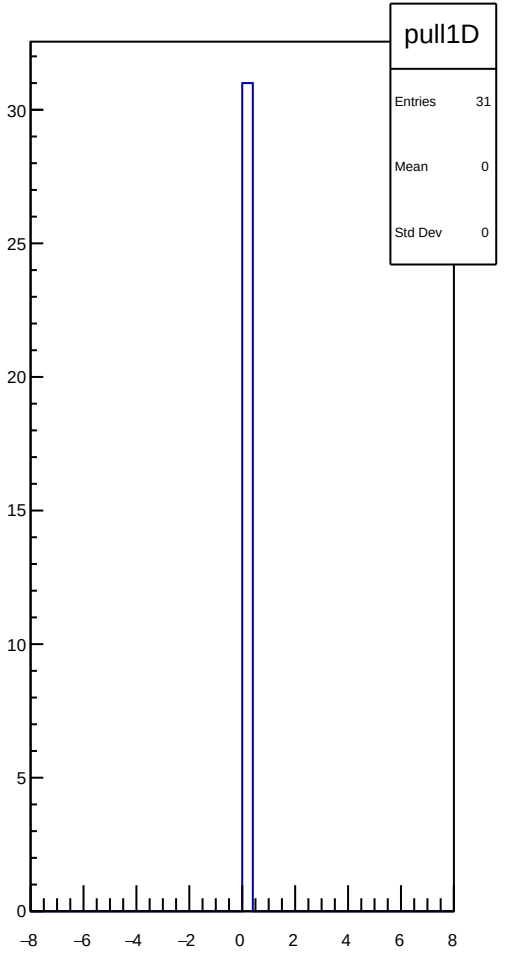

RTPAPOSVCNT_mean vs run
χ² / ndf 9.015e+07 / 30
p0 −1003 ± 1.796e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 15.5
Std Dev 8.944
1600
1400
1200
1000
800
600
400
200
0


pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
×10⁻³
χ² / ndf 0 / 30
p0 0.009375 ± 1.796e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 31
Mean 0
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0 / 30
p0 0.009375 ± 1.796e−16
9.375
7423. 0
7423. 1
7423. 2
7423. 3
7423. 4
7423. 5
7423. 6
7423. 7
7424. 0
7424. 1
7424. 2
7424. 3
7424. 4
7424. 5
7425. 0
7425. 1
7425. 2
7425. 3
7425. 4
7425. 5
7425. 6
7426. 0
7426. 1
7426. 2
7426. 3
7426. 4
7426. 5
7426. 6
7427. 0
7427. 1
7427. 2
pull
Entries 31
Mean 0
Std Dev 0


pull1D
Entries 31
Mean 0
Std Dev 0