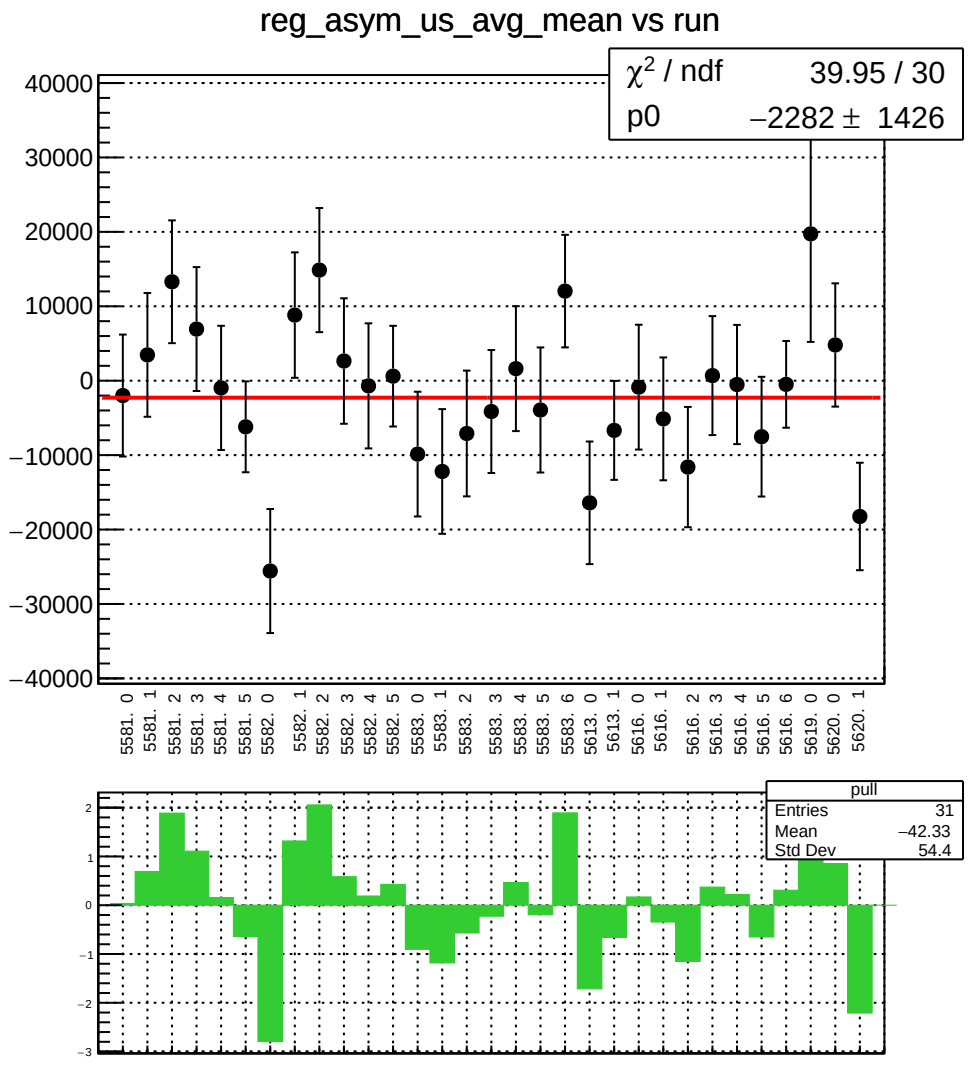
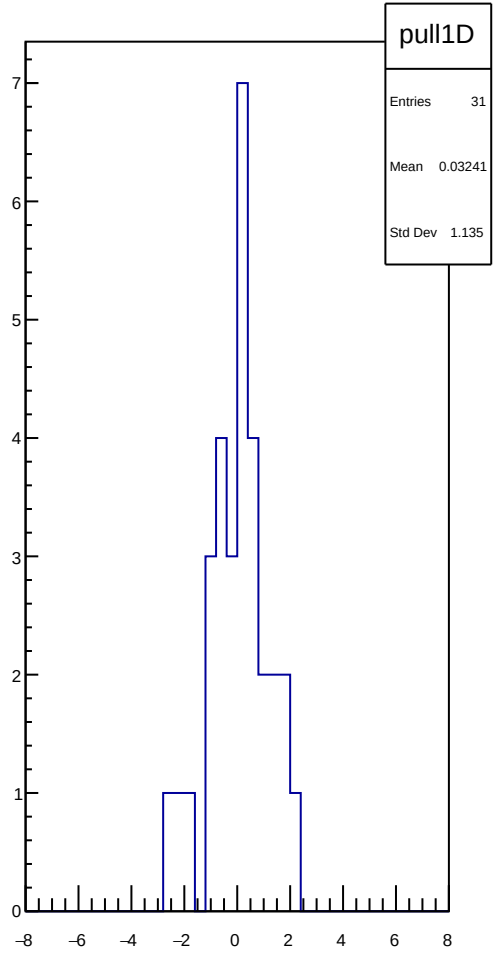
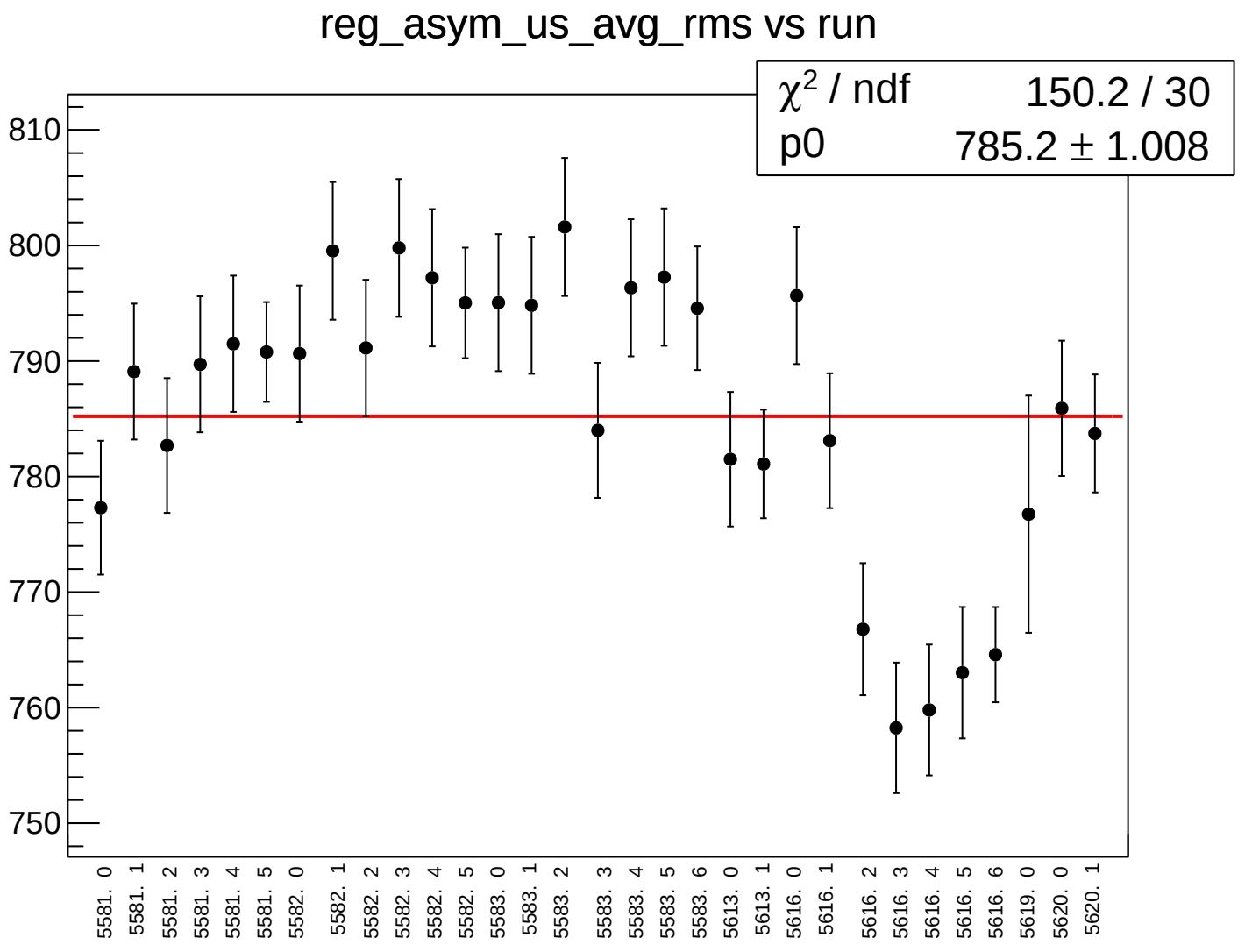
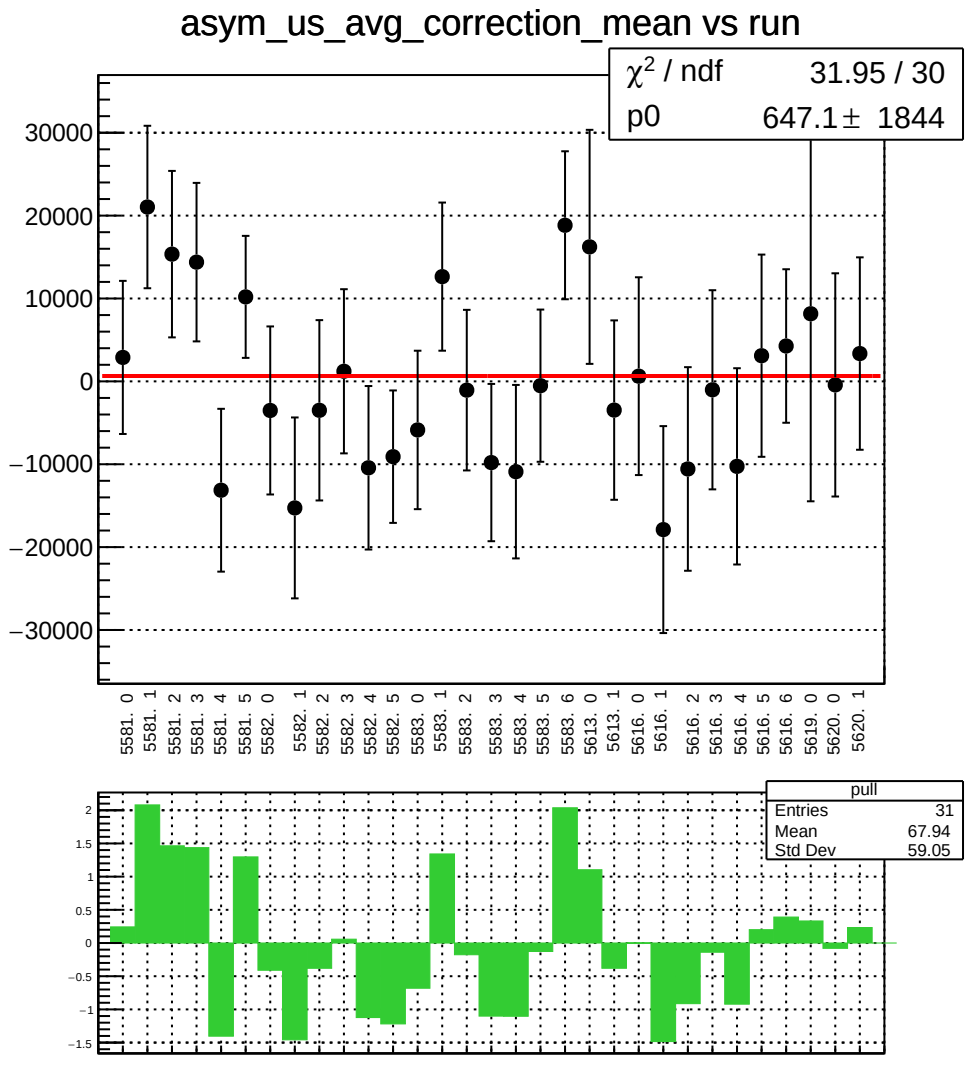
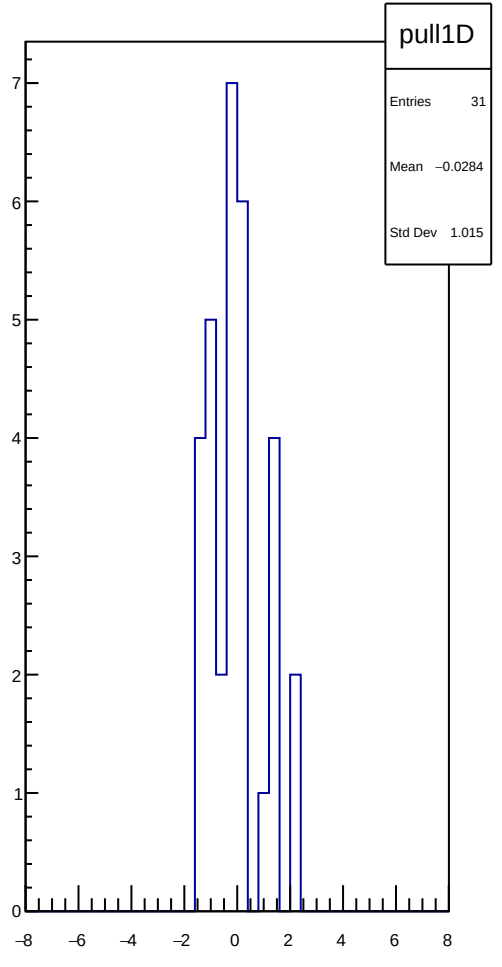
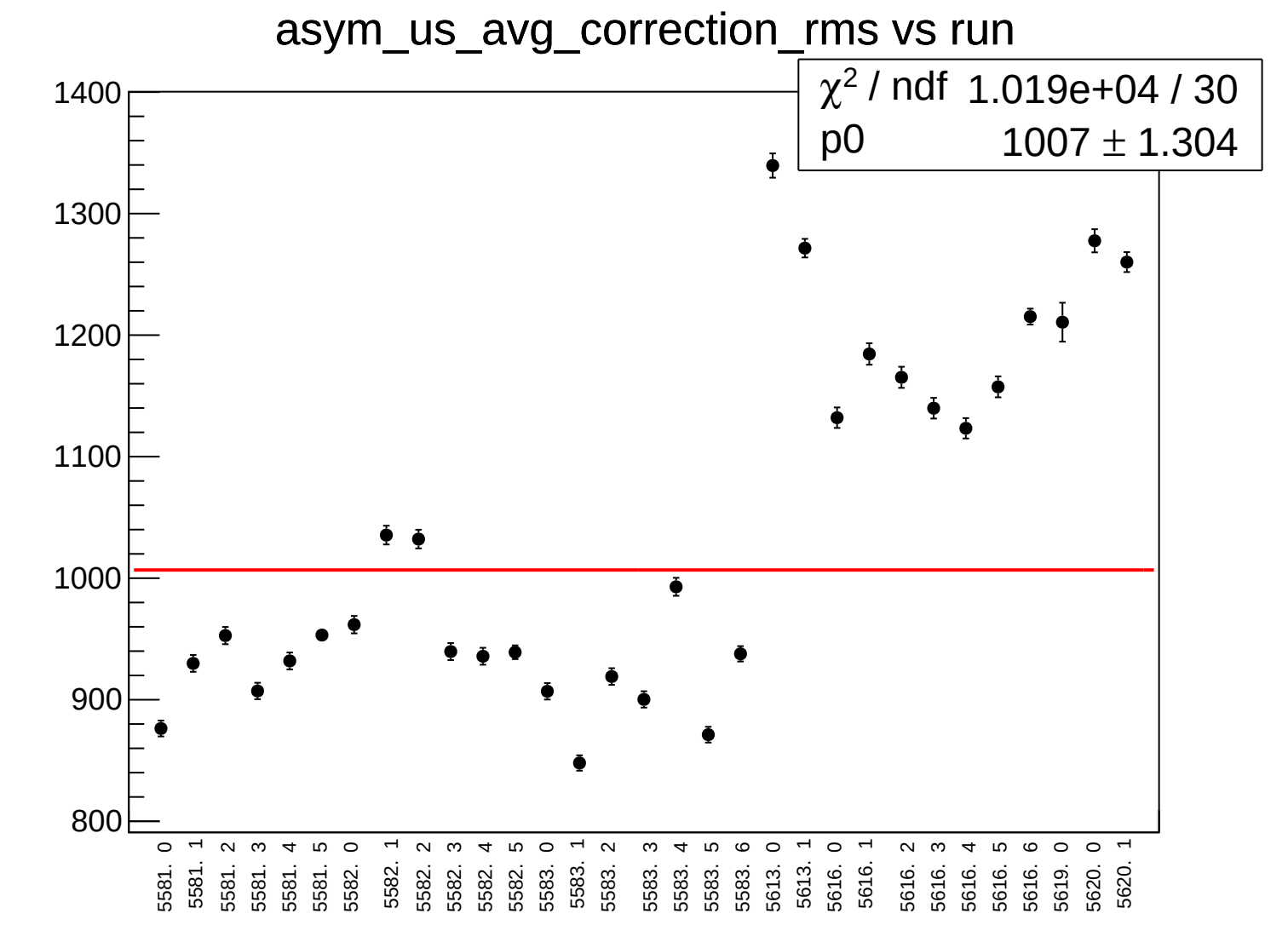

reg_asym_us_avg_mean vs run
χ² / ndf 39.95 / 30
p0 −2282 ± 1426
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −42.33
Std Dev 54.4
2
1
0
−1
−2
−3

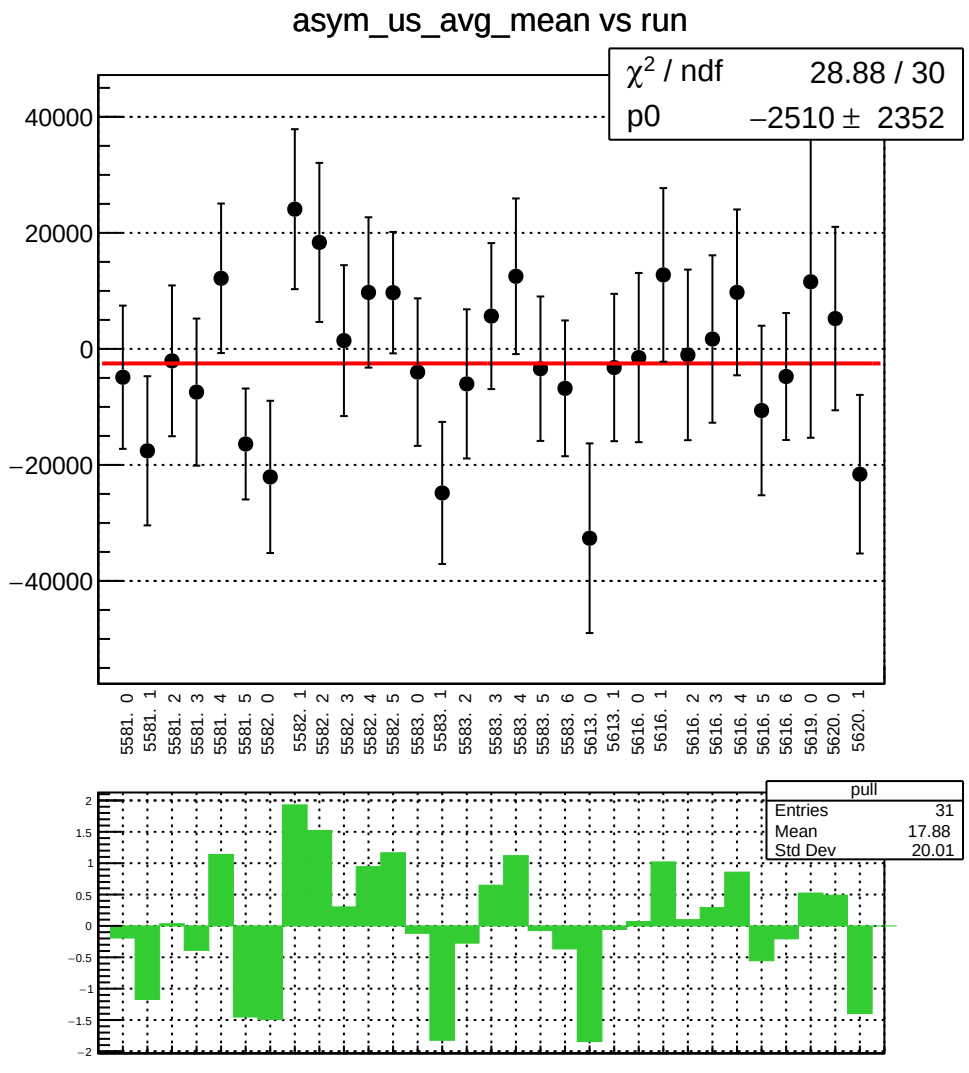

pull1D
Entries 31
Mean 0.03241
Std Dev 1.135
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

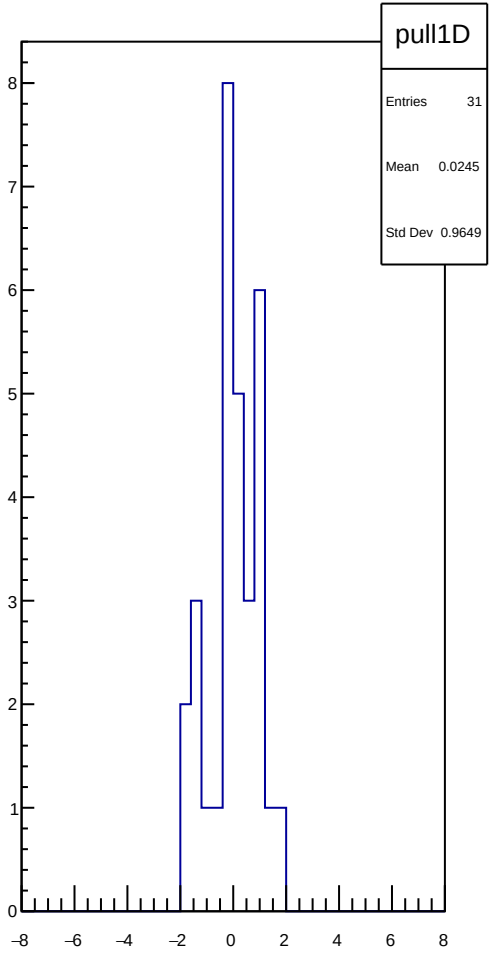

reg_asym_us_avg_rms vs run
χ^2 / ndf 150.2 / 30
p0 785.2 ± 1.008
810
800
790
780
770
760
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

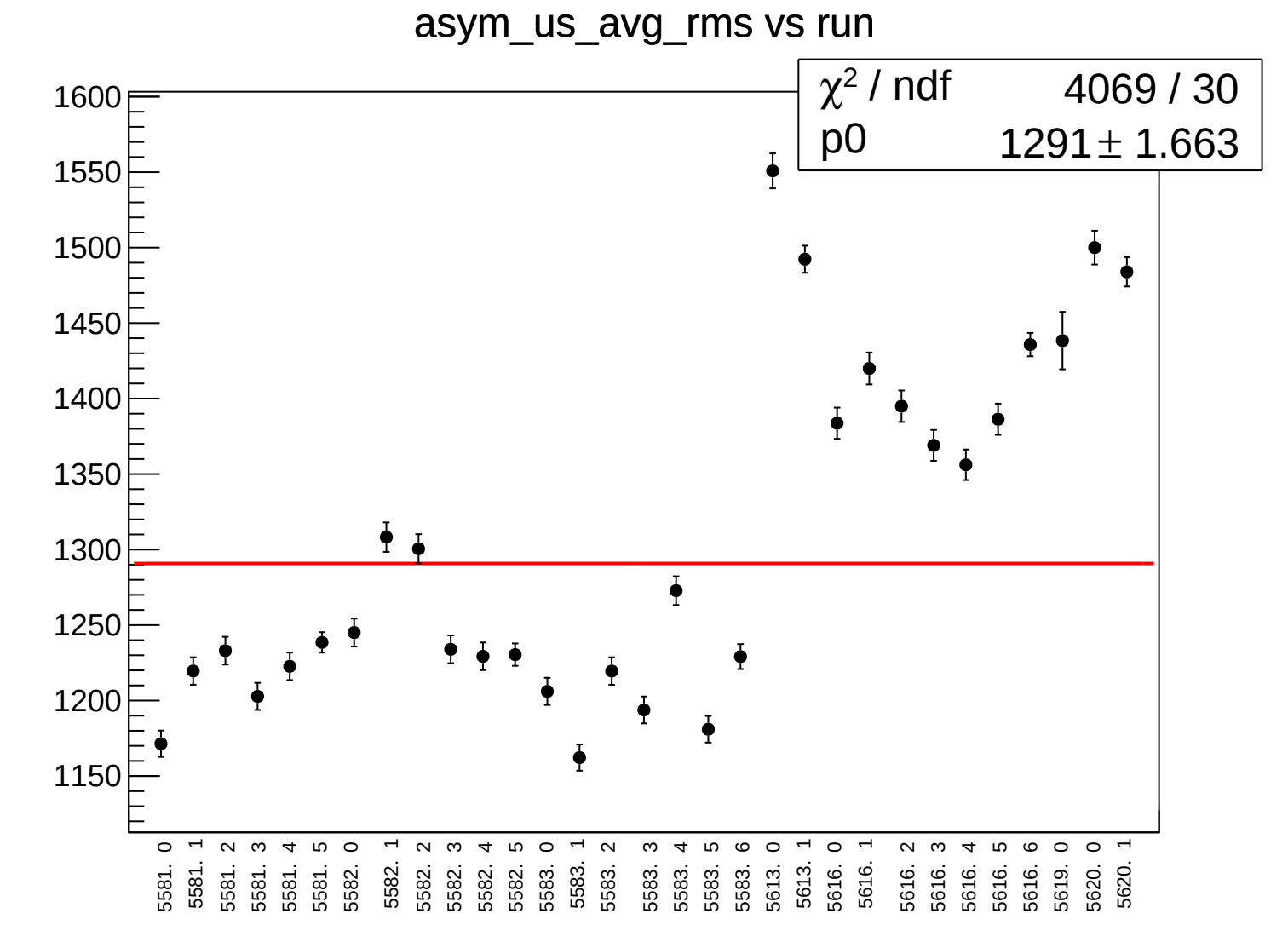

asym_us_avg_correction_mean vs run
χ² / ndf 31.95 / 30
p0 647.1 ± 1844
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 67.94
Std Dev 59.05
2
1.5
1
0.5
0
−0.5
−1
−1.5

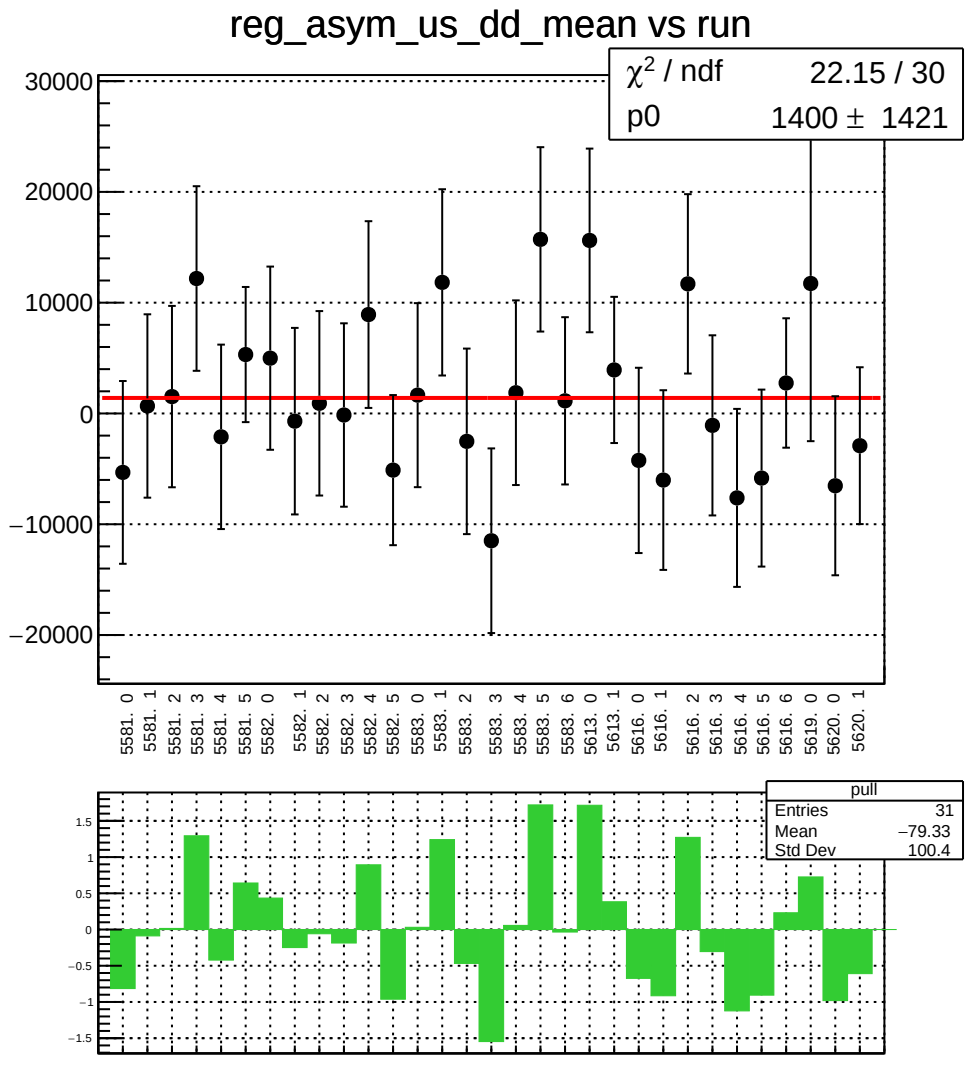

pull1D
Entries 31
Mean −0.0284
Std Dev 1.015
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

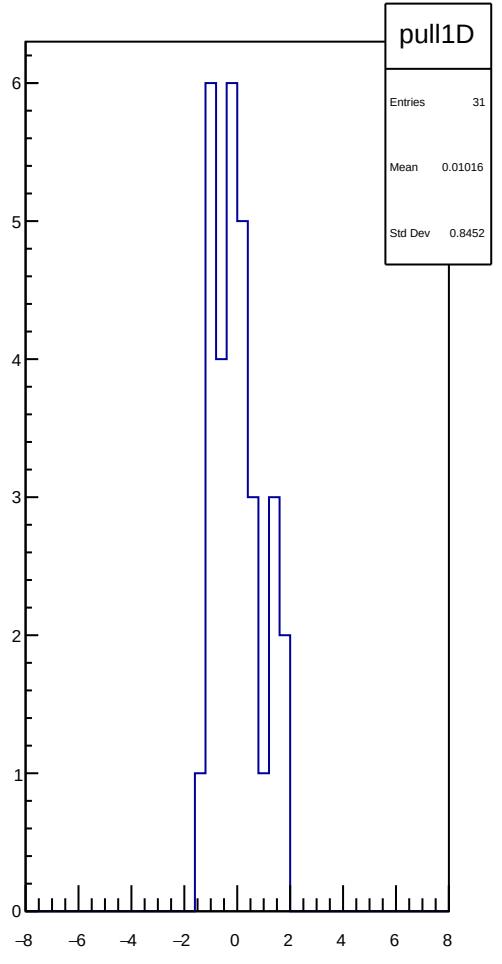

asym_us_avg_correction_rms vs run
χ² / ndf 1.019e+04 / 30
p0 1007 ± 1.304
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

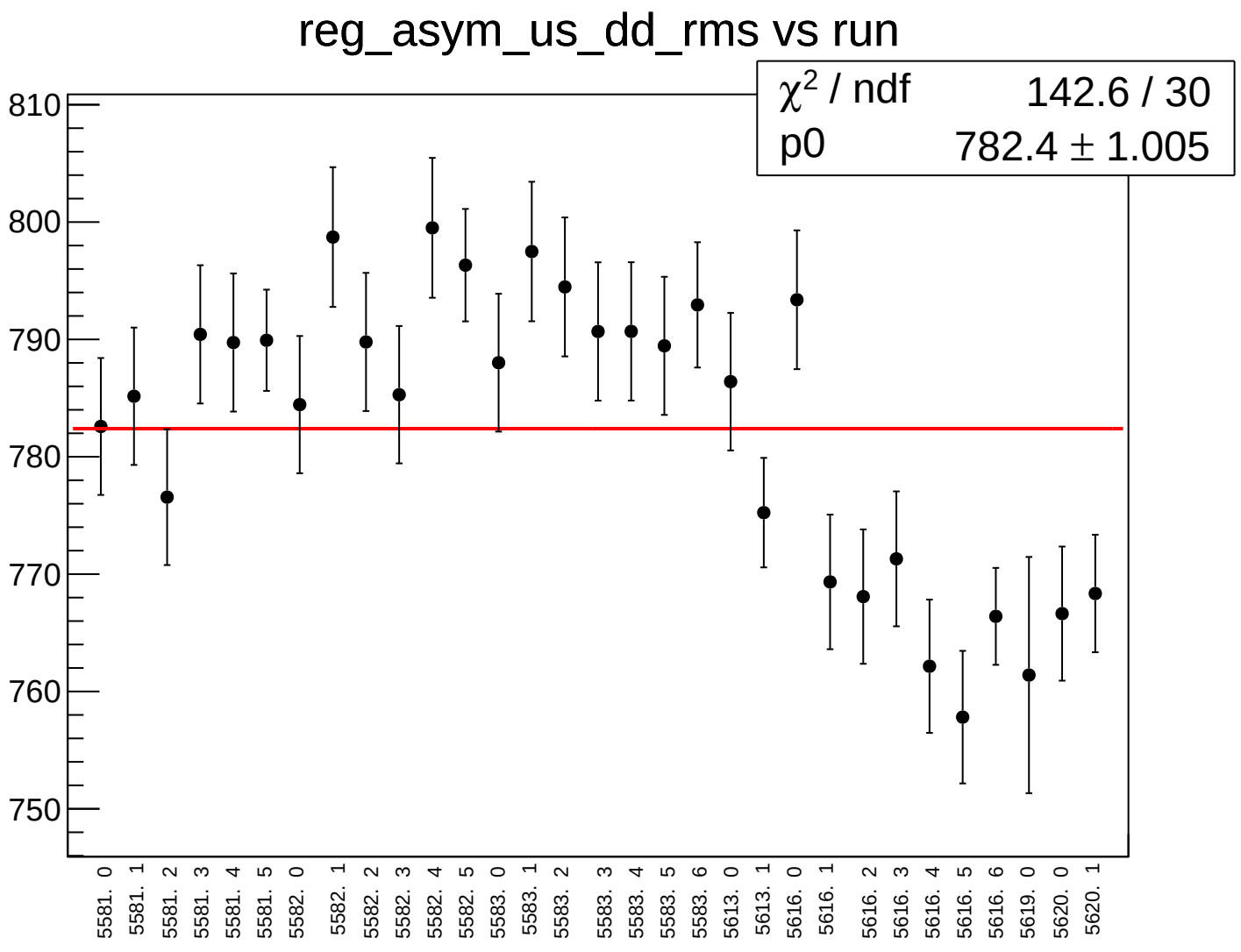

asym_us_avg_mean vs run
χ² / ndf 28.88 / 30
p0 −2510 ± 2352
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.88
Std Dev 20.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

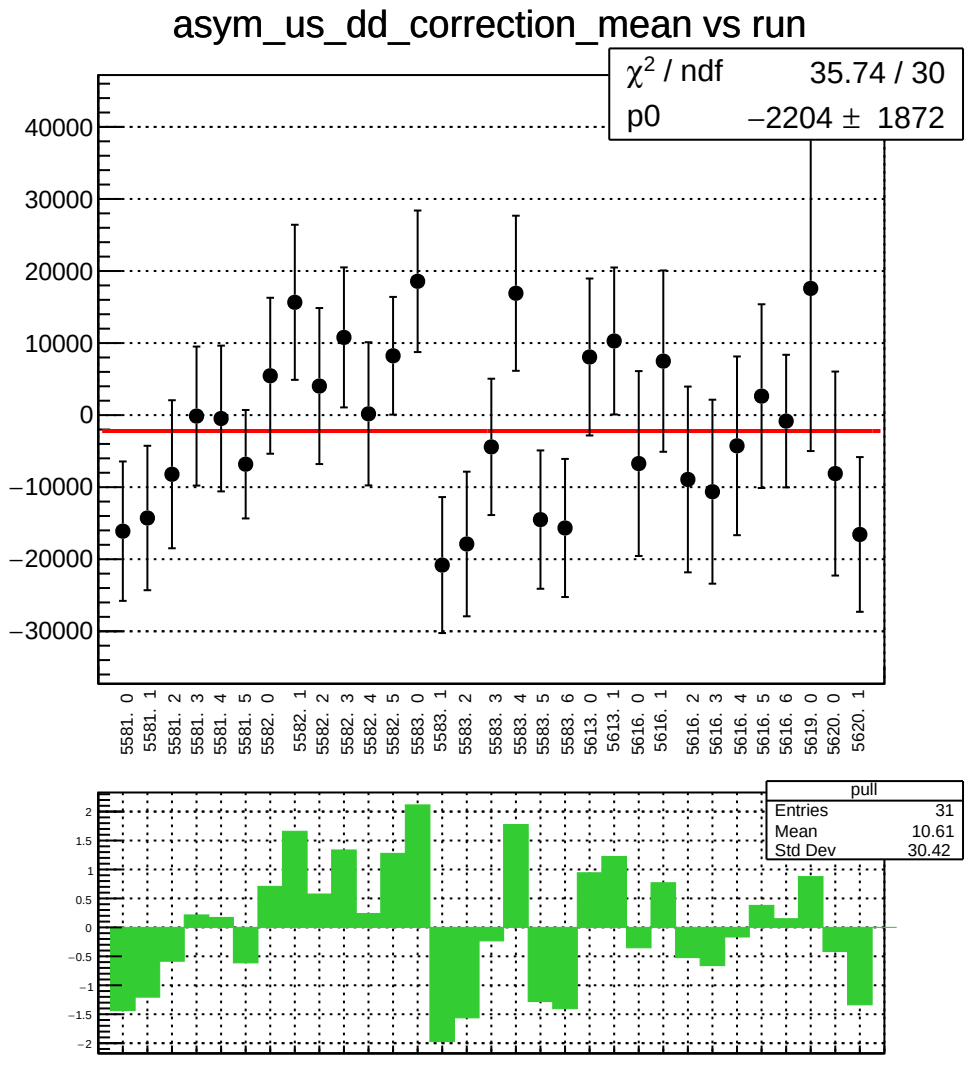

pull1D
Entries 31
Mean 0.0245
Std Dev 0.9649
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

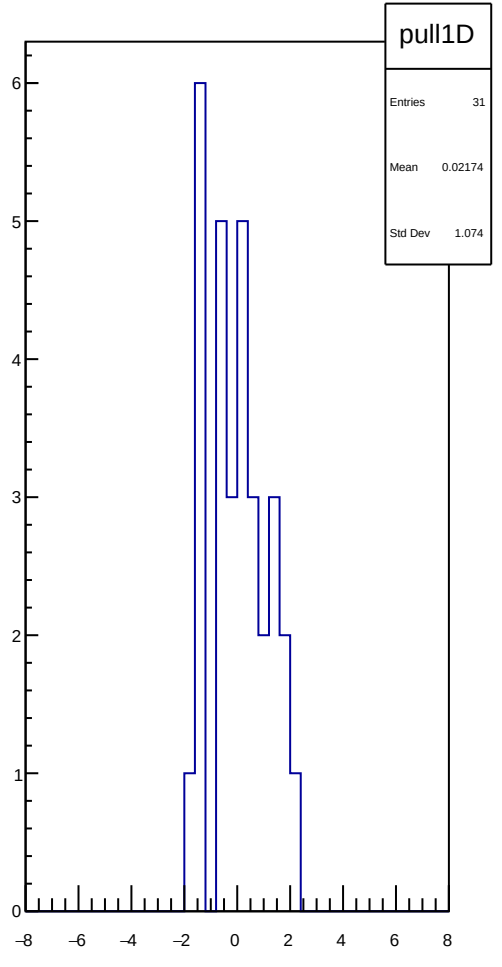

asym_us_avg_rms vs run
χ² / ndf 4069 / 30
p0 1291 ± 1.663
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

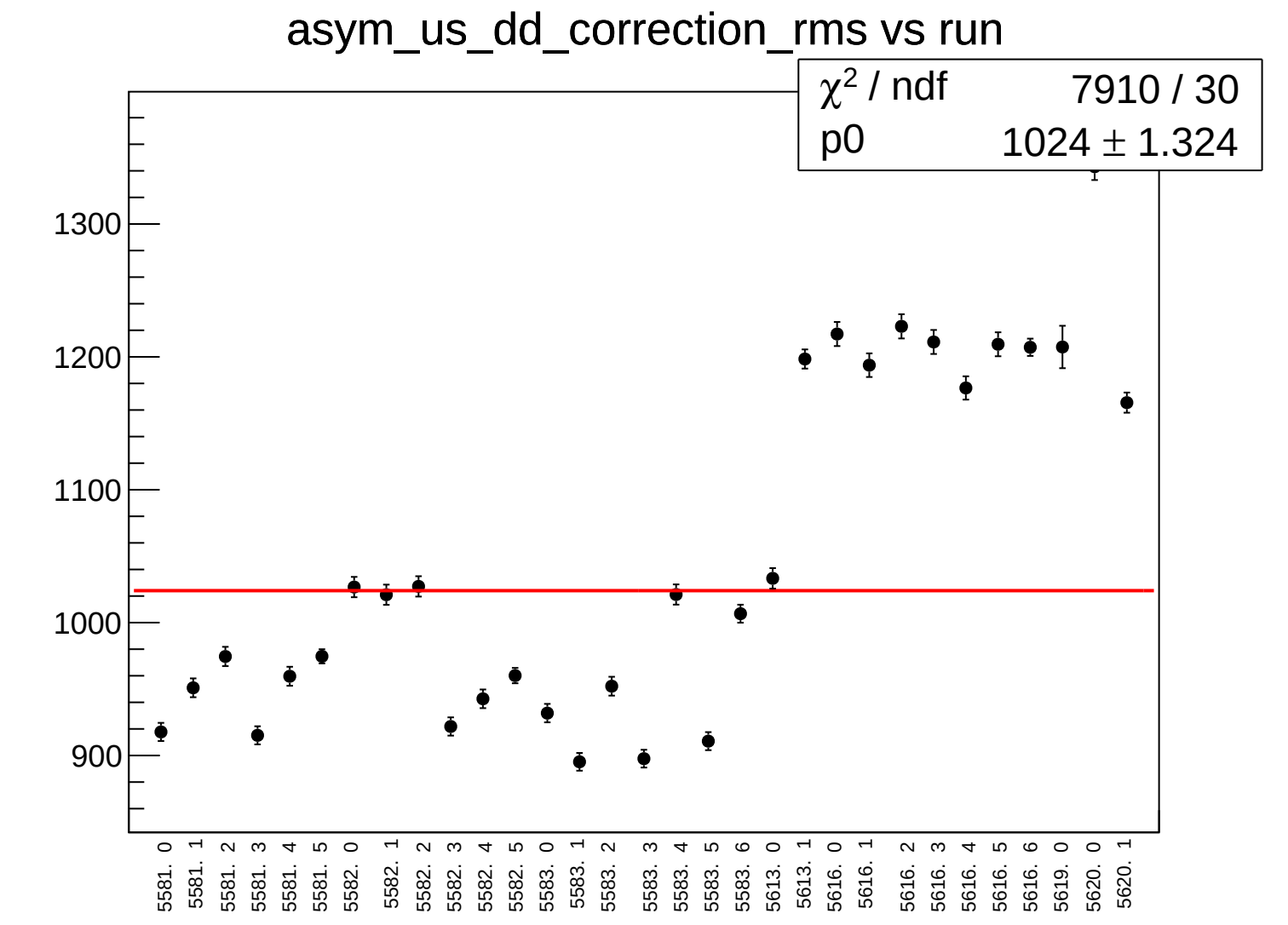

reg_asym_us_dd_mean vs run
χ² / ndf 22.15 / 30
p0 1400 ± 1421
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −79.33
Std Dev 100.4
1.5
1
0.5
0
−0.5
−1
−1.5

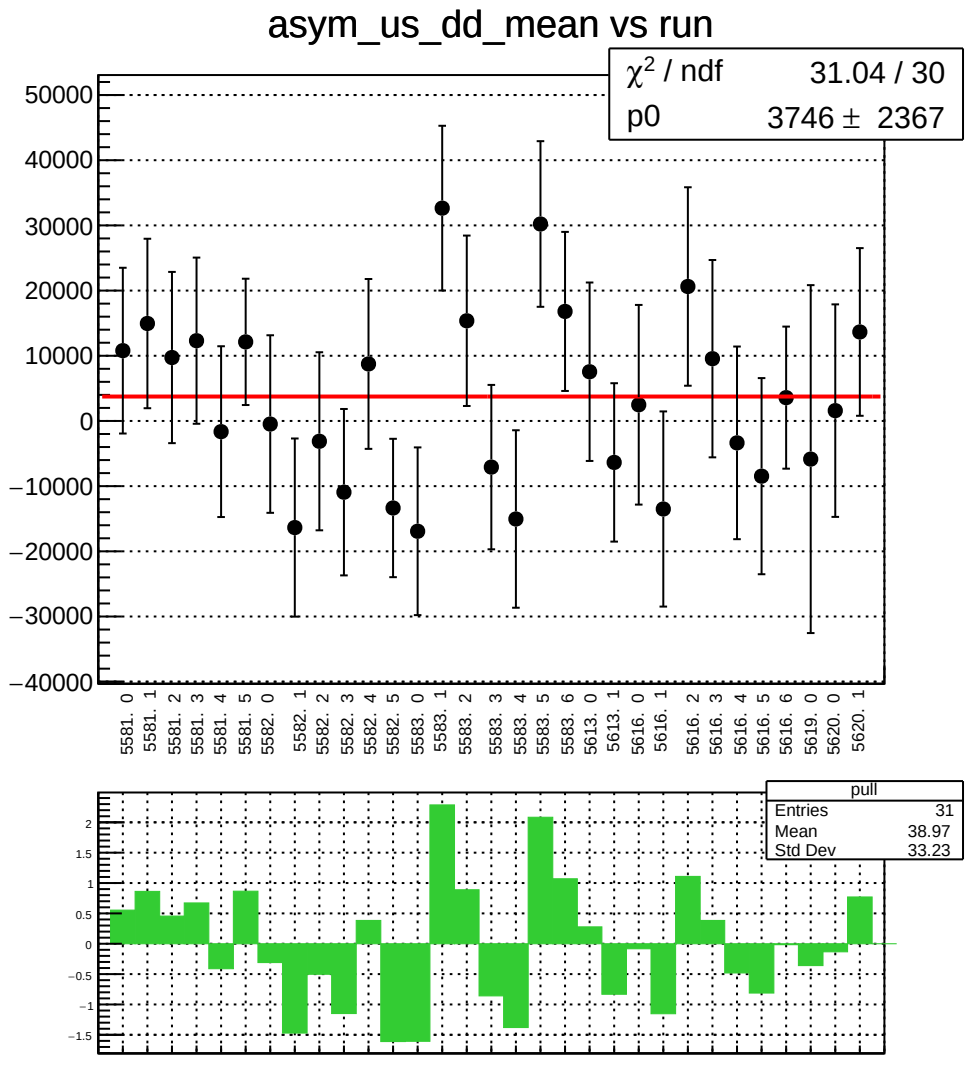

pull1D
Entries 31
Mean 0.01016
Std Dev 0.8452
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

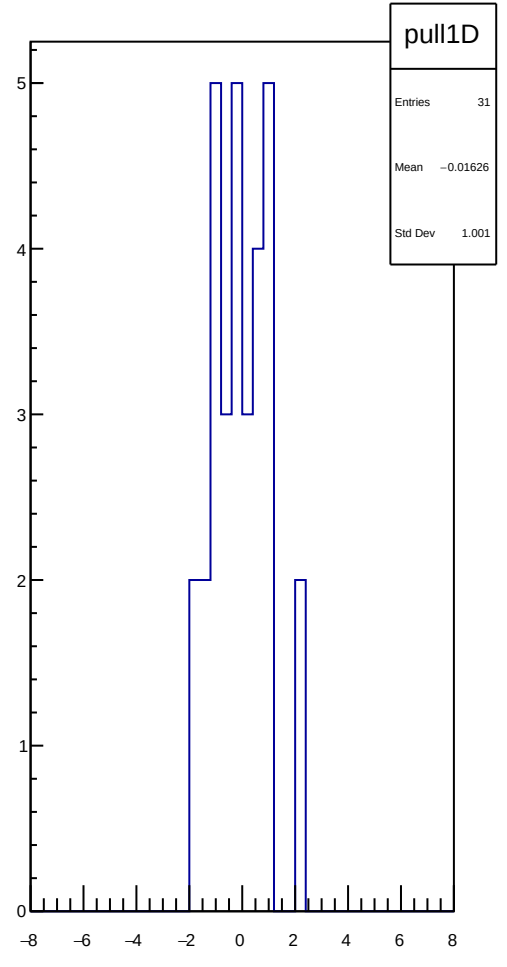

reg_asym_us_dd_rms vs run
χ² / ndf 142.6 / 30
p0 782.4 ± 1.005
810
800
790
780
770
760
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

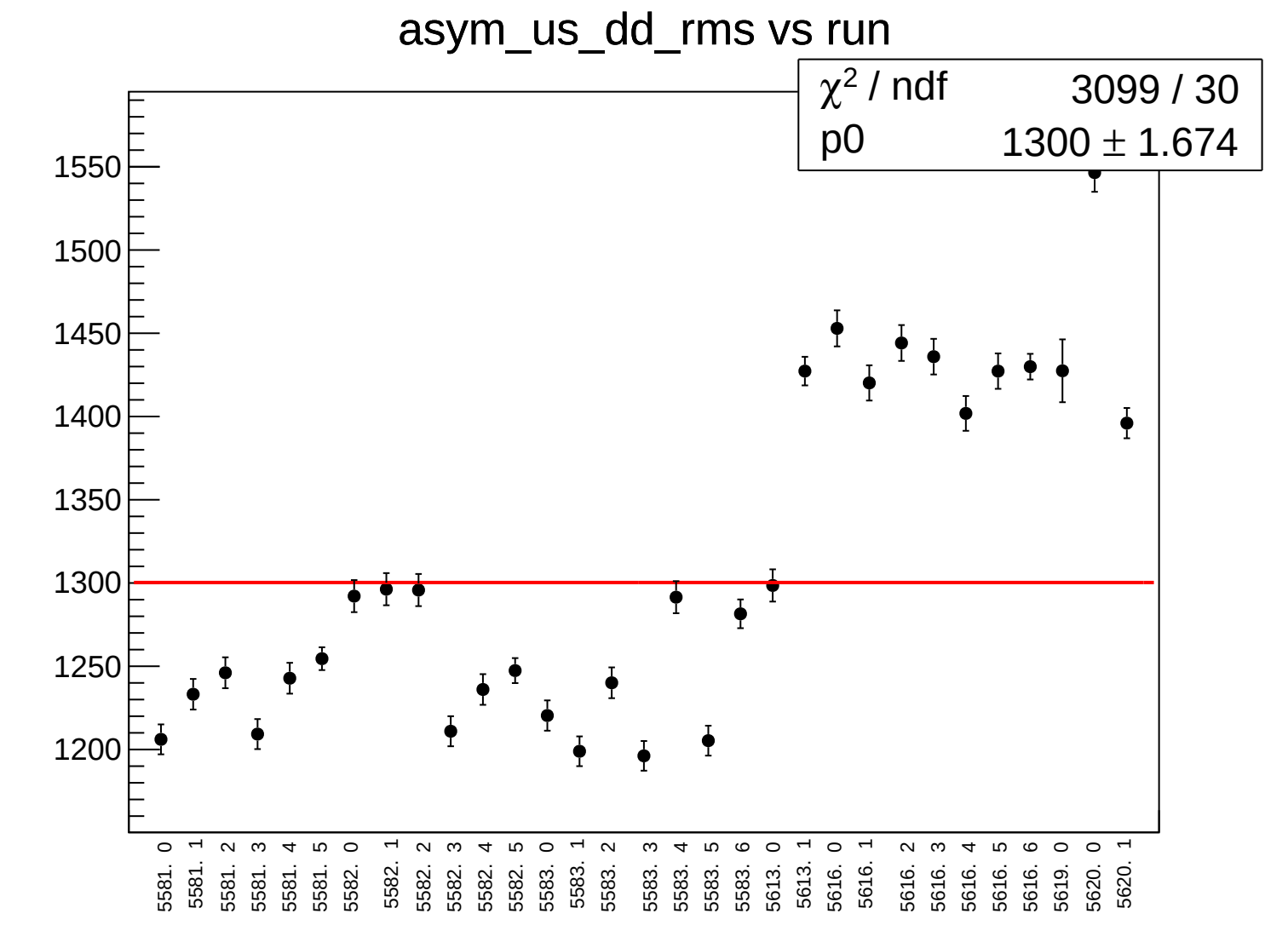

asym_us_dd_correction_mean vs run
χ² / ndf 35.74 / 30
p0 −2204 ± 1872
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.61
Std Dev 30.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

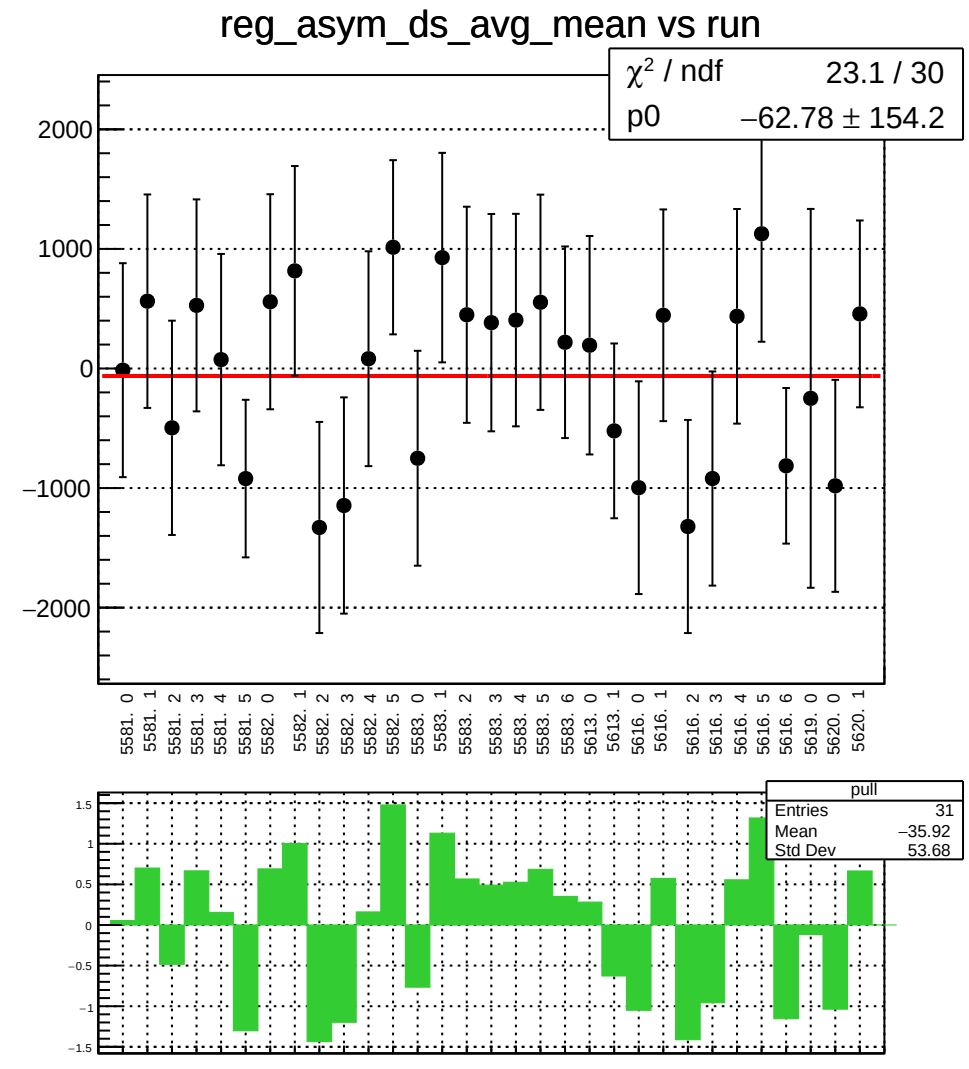

pull1D
Entries 31
Mean 0.02174
Std Dev 1.074
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

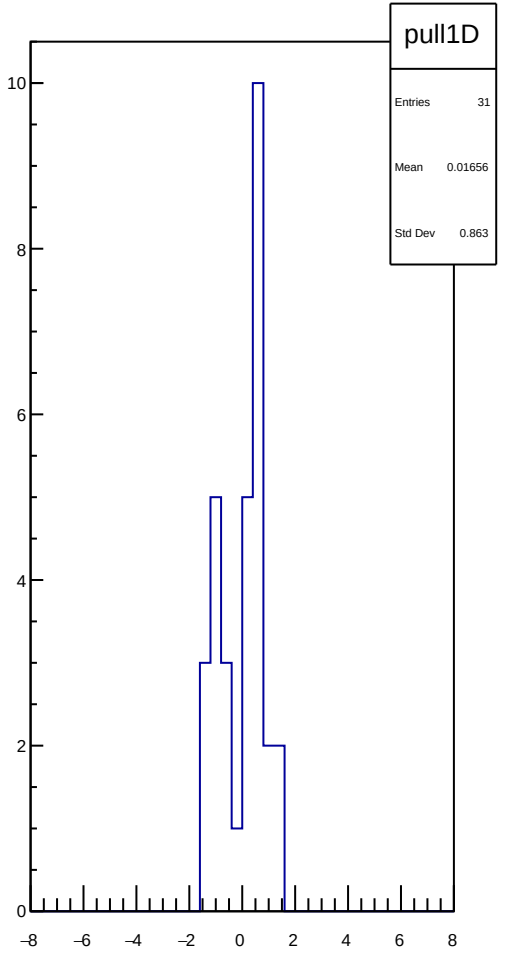

asym_us_dd_correction_rms vs run
χ² / ndf 7910 / 30
p0 1024 ± 1.324
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

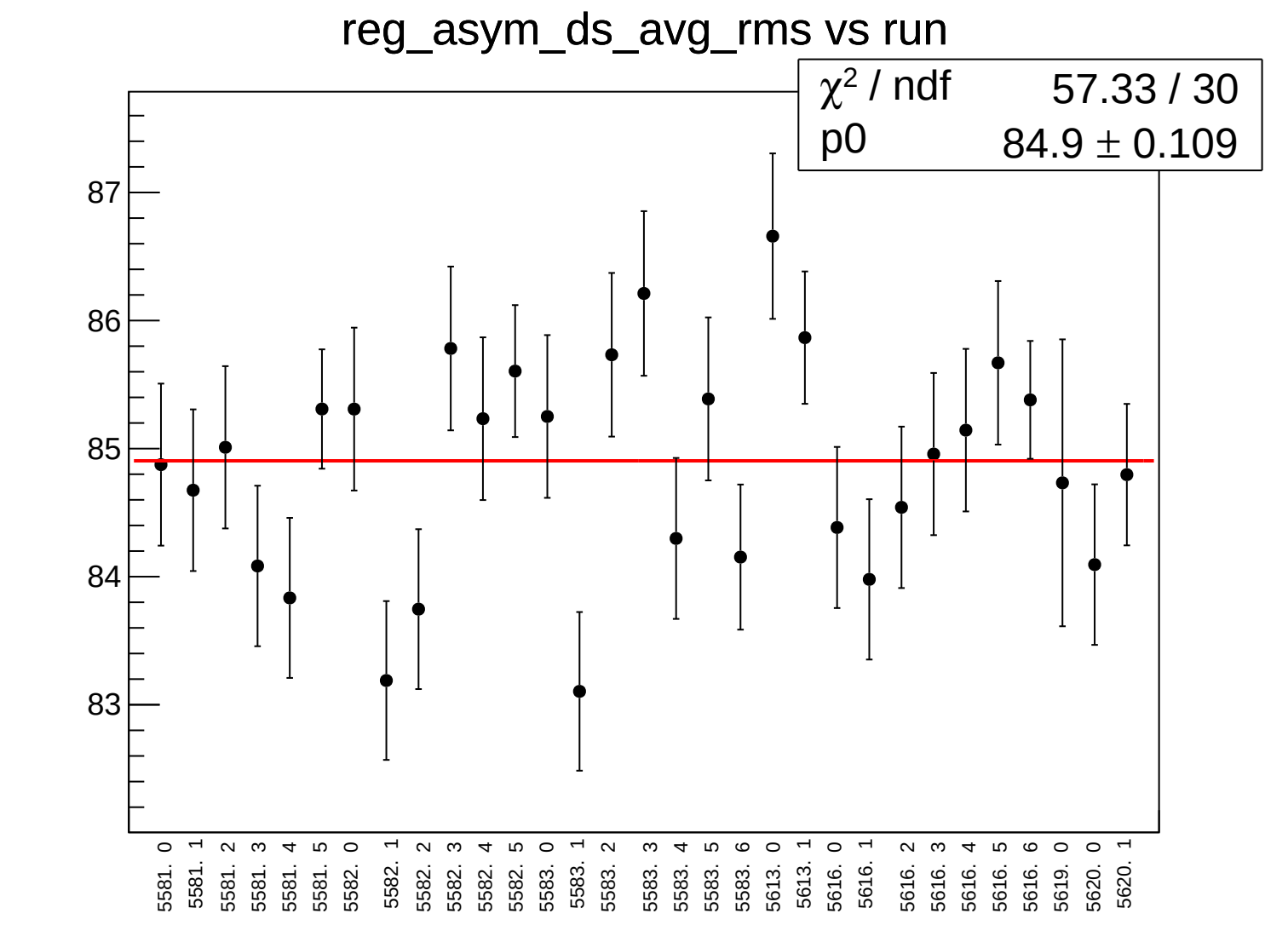

asym_us_dd_mean vs run
χ² / ndf 31.04 / 30
p0 3746 ± 2367
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.97
Std Dev 33.23
2
1.5
1
0.5
0
−0.5
−1
−1.5

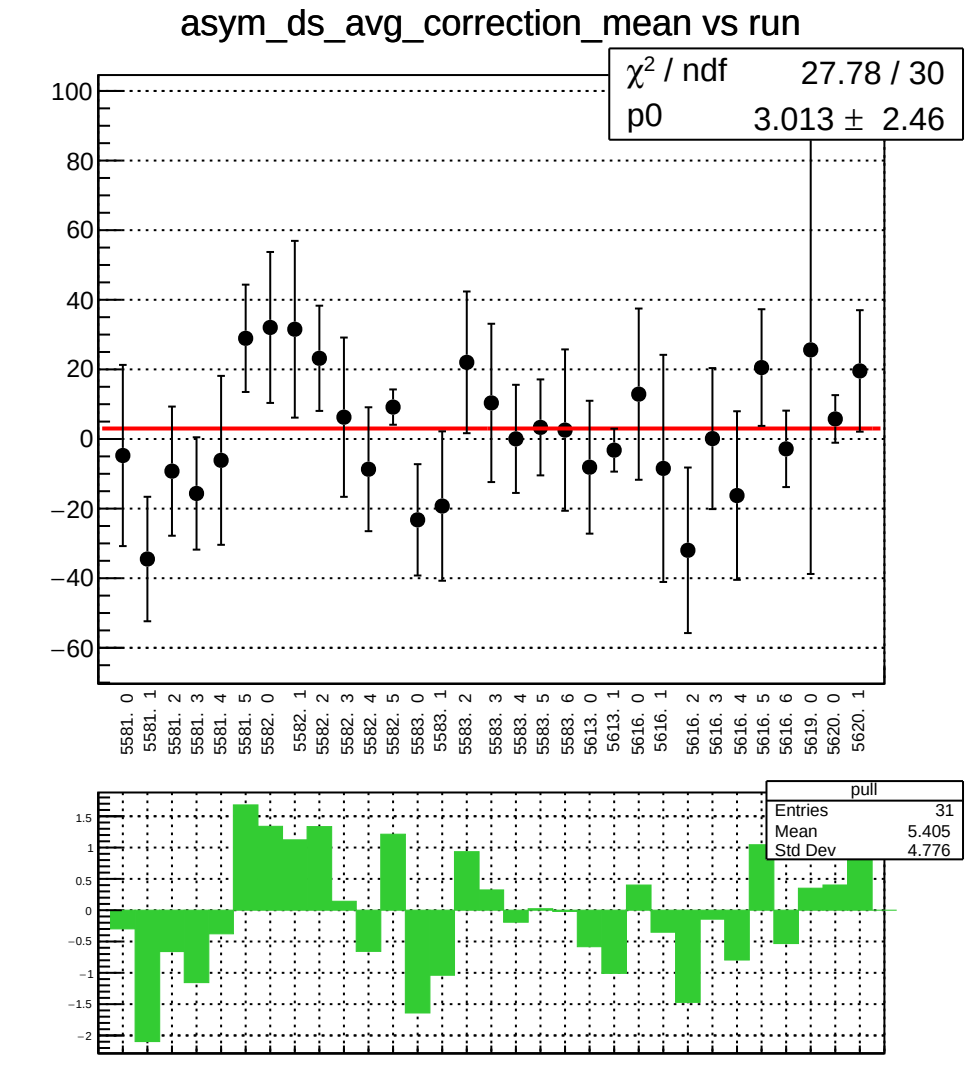

pull1D
Entries 31
Mean −0.01626
Std Dev 1.001
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

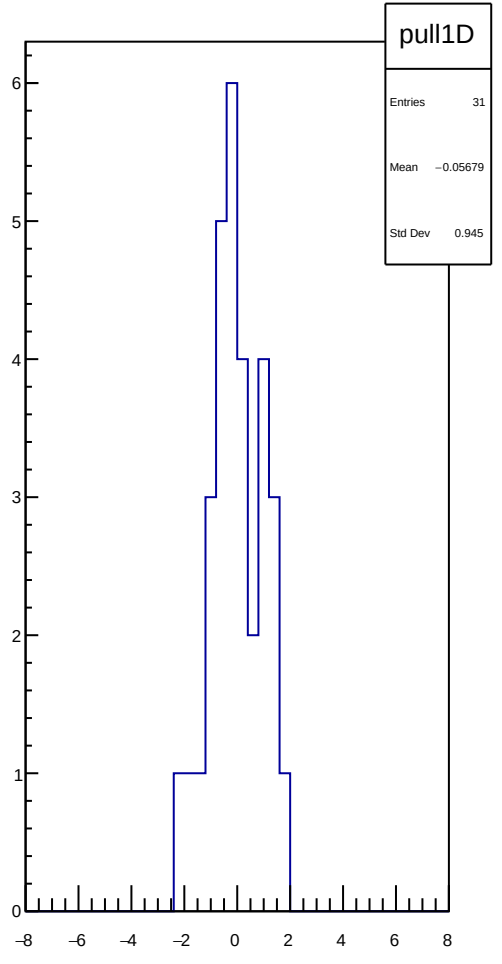

asym_us_dd_rms vs run
χ² / ndf 3099 / 30
p0 1300 ± 1.674
1550
1500
1450
1400
1350
1300
1250
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

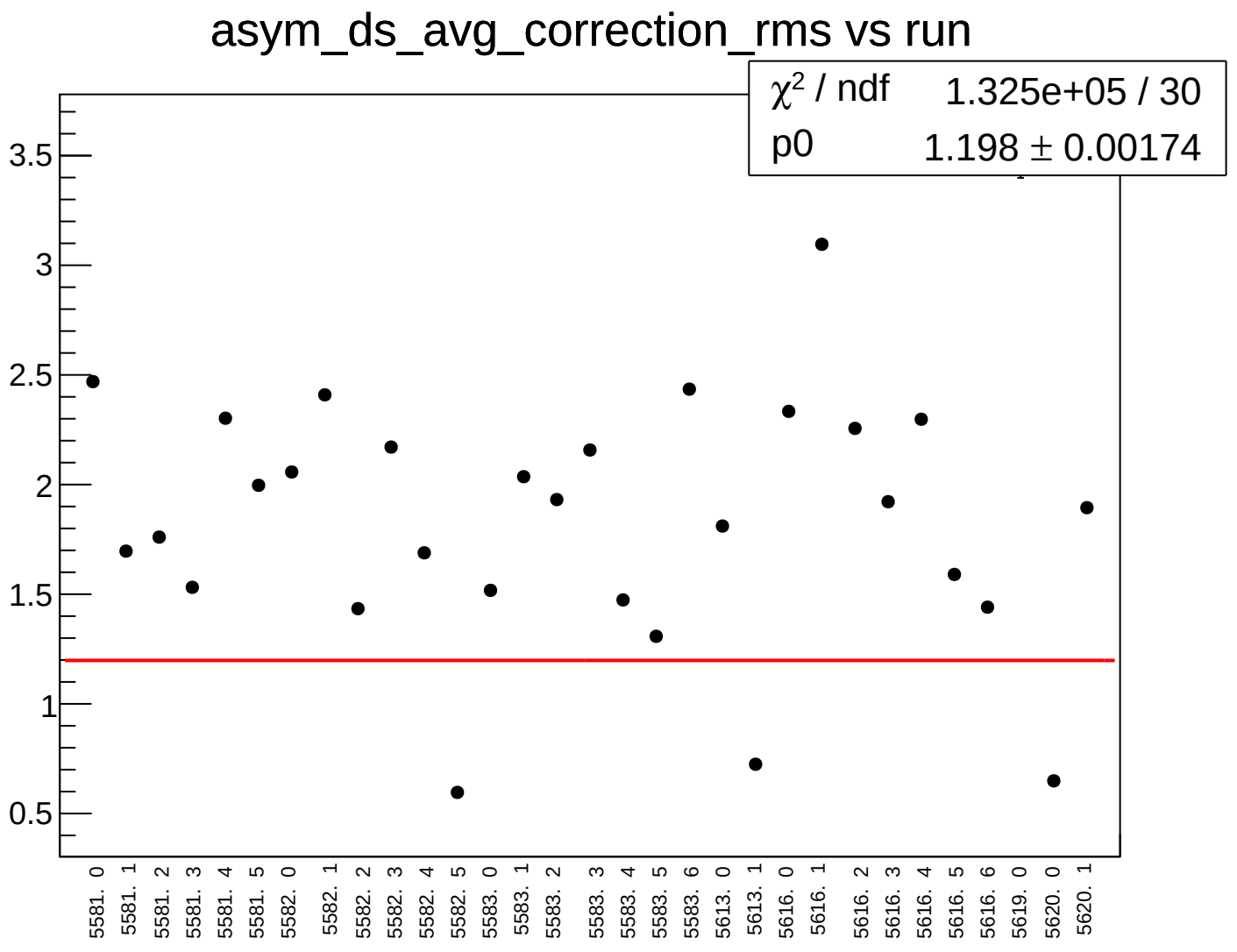

reg_asym_ds_avg_mean vs run
χ² / ndf 23.1 / 30
p0 −62.78 ± 154.2
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −35.92
Std Dev 53.68
1.5
1
0.5
0
−0.5
−1
−1.5

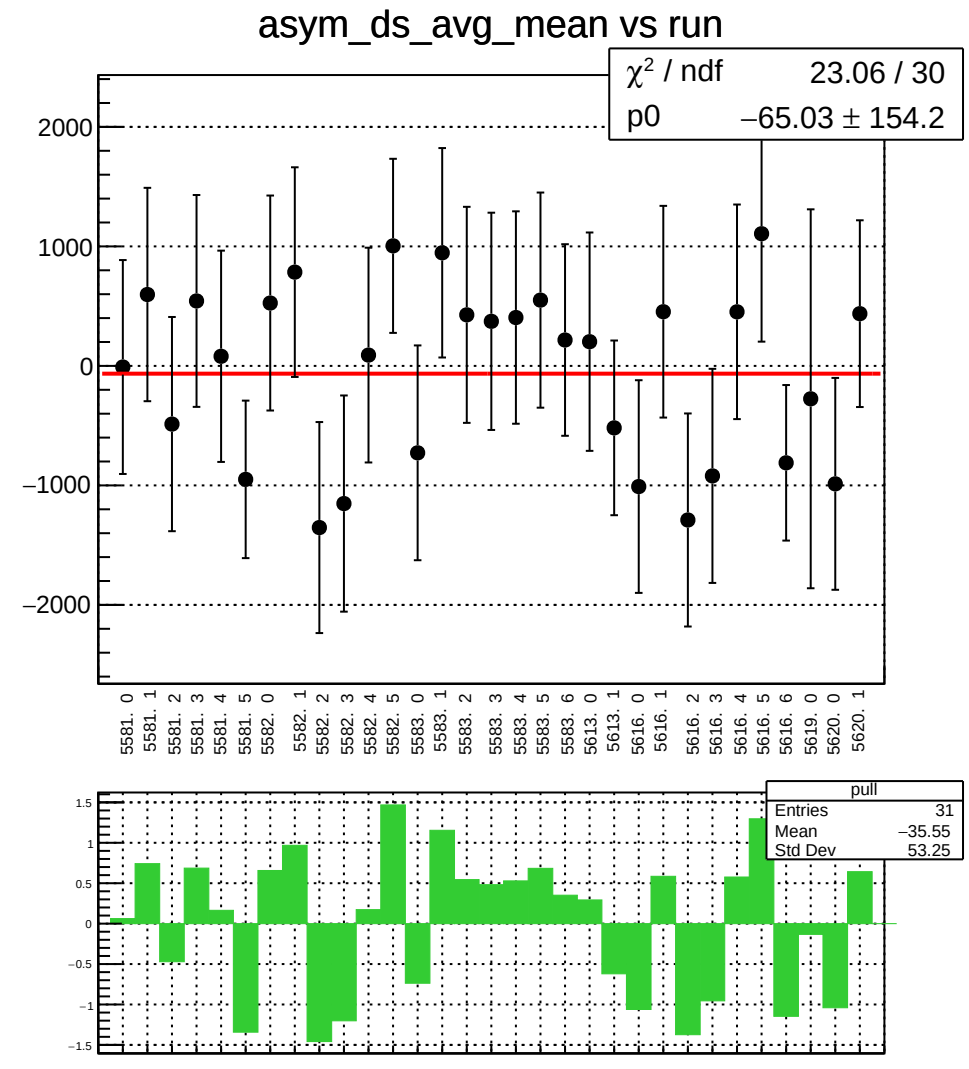

pull1D
Entries 31
Mean 0.01656
Std Dev 0.863
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

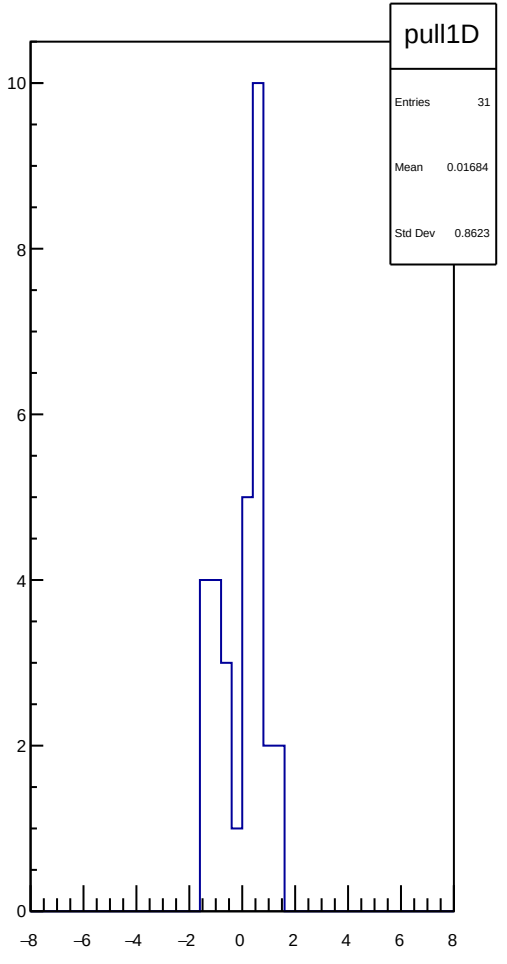

reg_asym_ds_avg_rms vs run
χ² / ndf 57.33 / 30
p0 84.9 ± 0.109
87
86
85
84
83
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

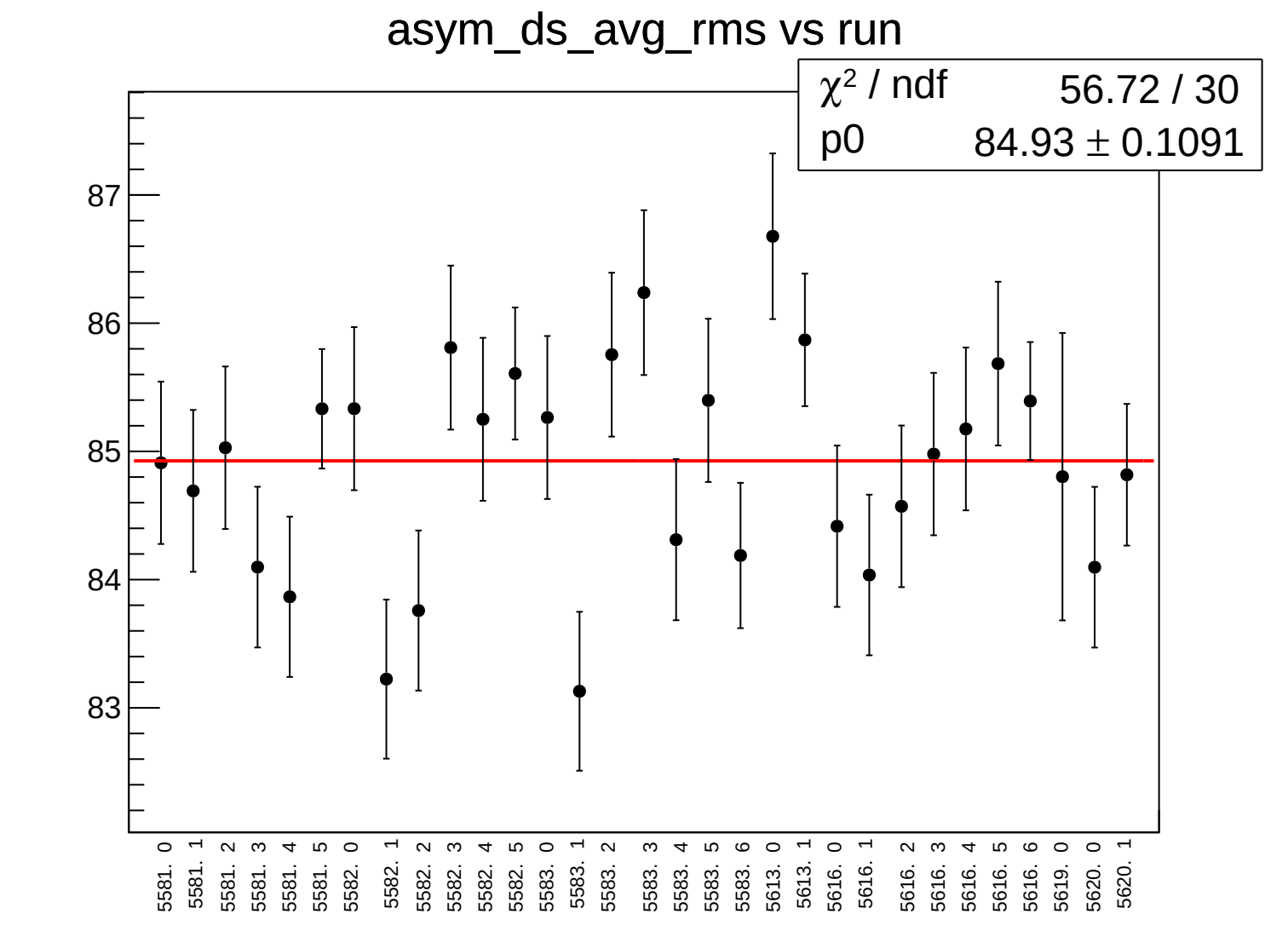

asym_ds_avg_correction_mean vs run
χ² / ndf 27.78 / 30
p0 3.013 ± 2.46
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 5.405
Std Dev 4.776
1.5
1
0.5
0
−0.5
−1
−1.5
−2

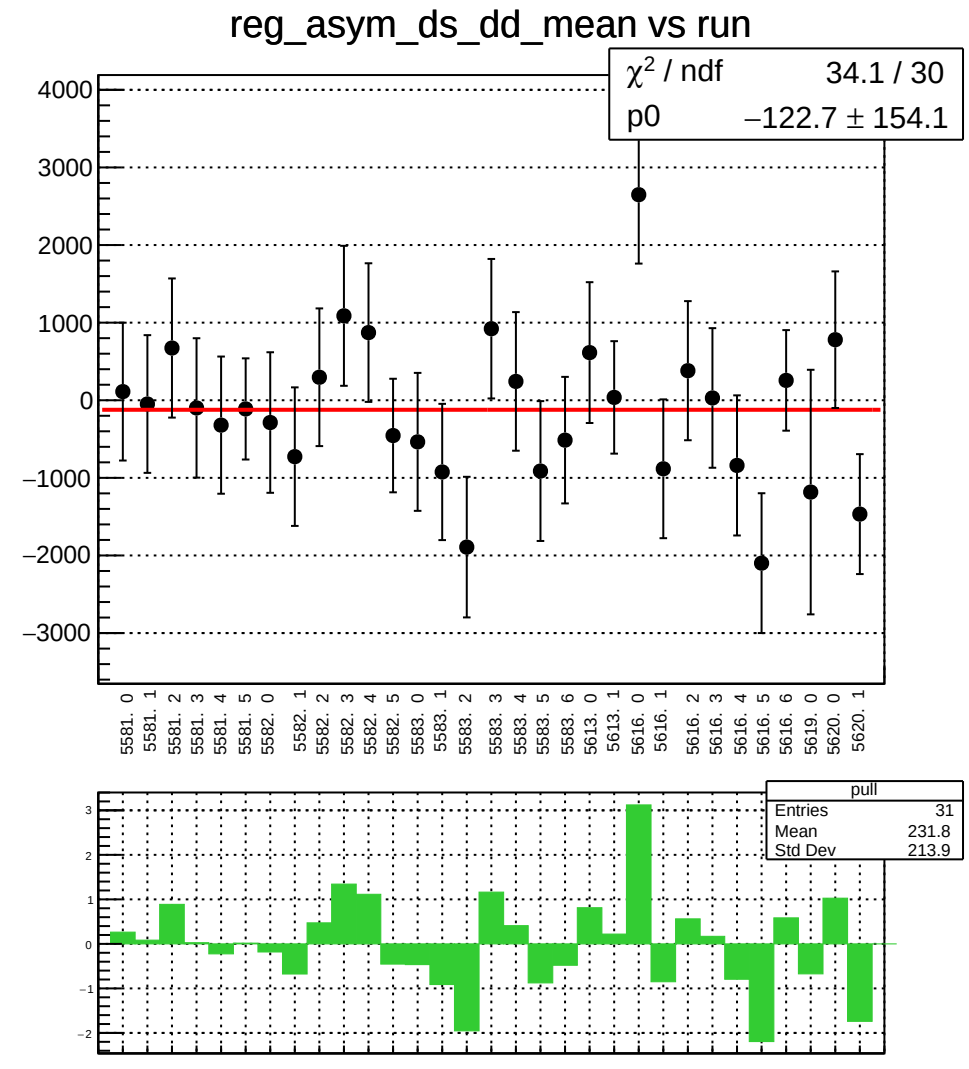

pull1D
Entries 31
Mean −0.05679
Std Dev 0.945
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

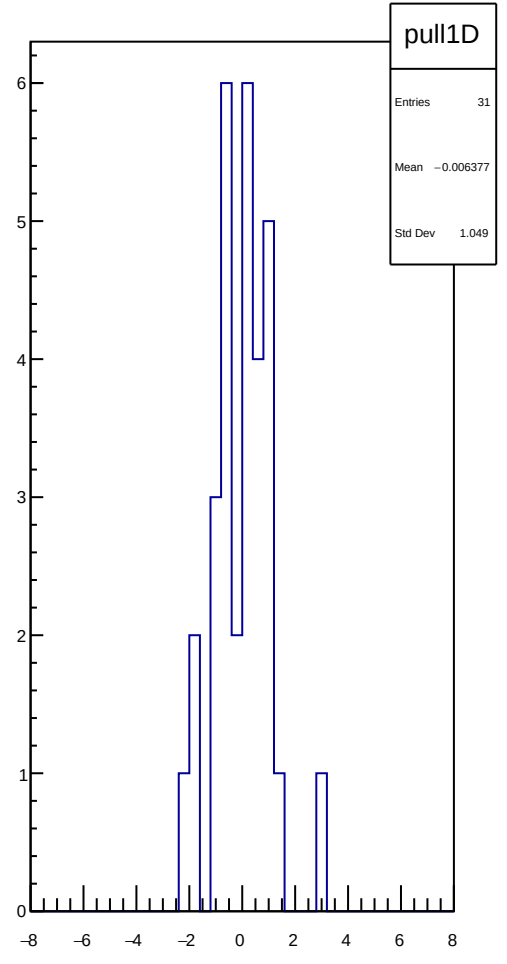

asym_ds_avg_correction_rms vs run
χ² / ndf 1.325e+05 / 30
p0 1.198 ± 0.00174
3.5
3
2.5
2
1.5
1
0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

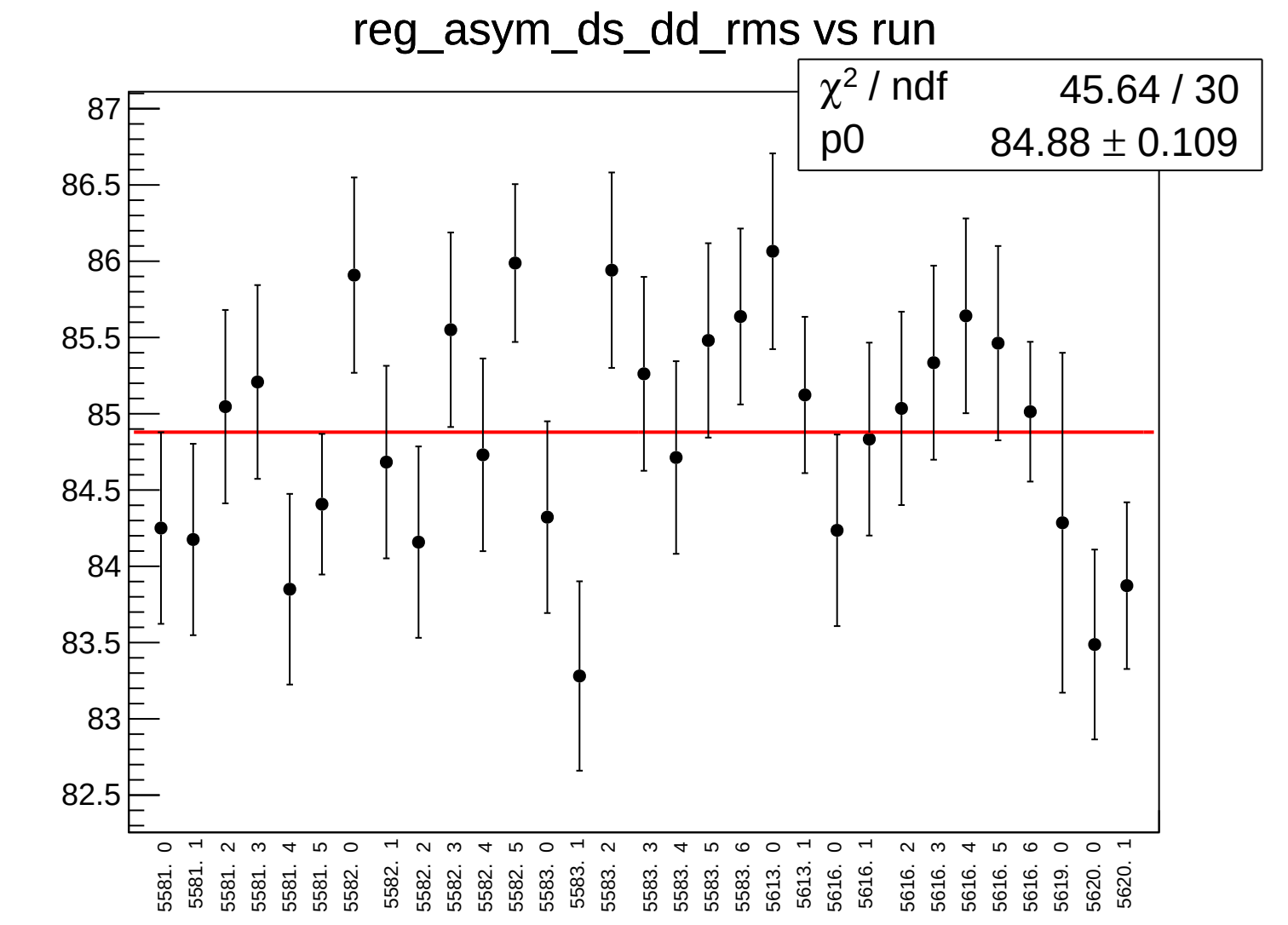

asym_ds_avg_mean vs run
χ² / ndf 23.06 / 30
p0 −65.03 ± 154.2
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −35.55
Std Dev 53.25
1.5
1
0.5
0
−0.5
−1
−1.5

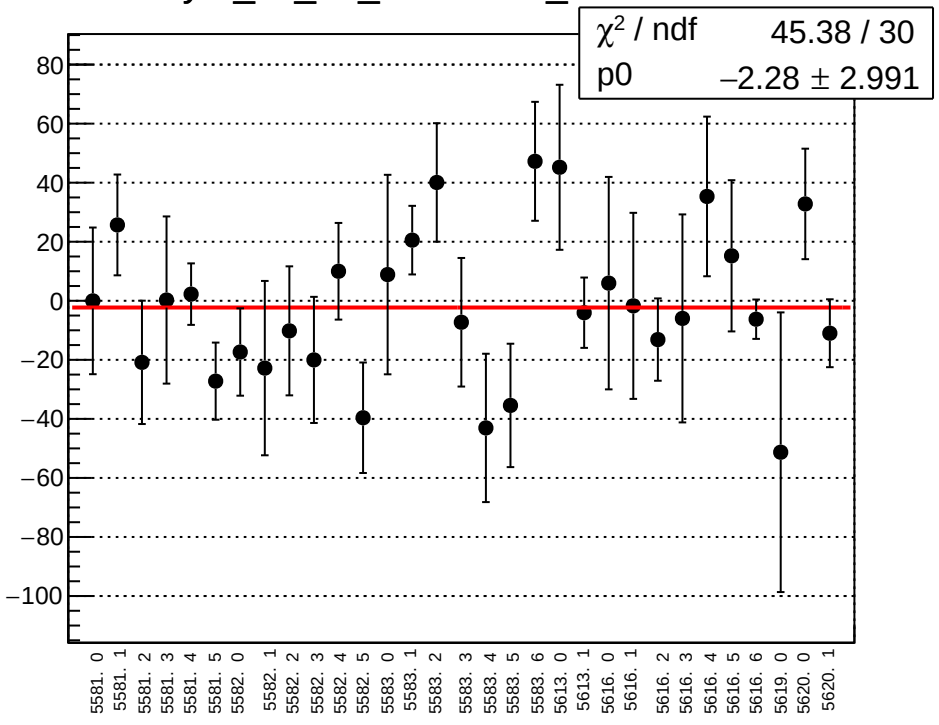

pull1D
Entries 31
Mean 0.01684
Std Dev 0.8623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

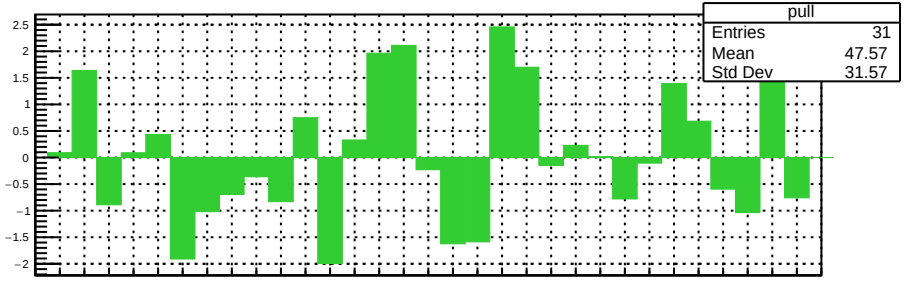

asym_ds_avg_rms vs run
χ² / ndf 56.72 / 30
p0 84.93 ± 0.1091
87
86
85
84
83
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

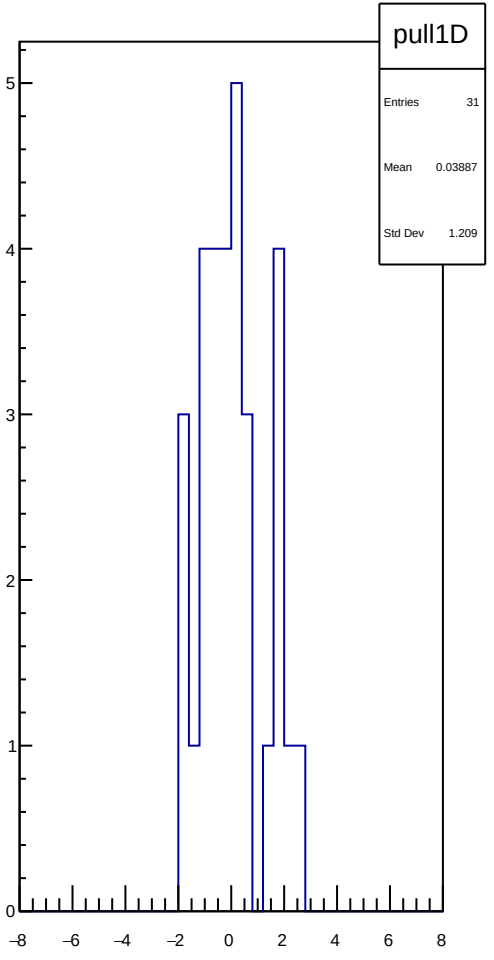

reg_asym_ds_dd_mean vs run
χ² / ndf 34.1 / 30
p0 −122.7 ± 154.1
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 231.8
Std Dev 213.9
3
2
1
0
−1
−2

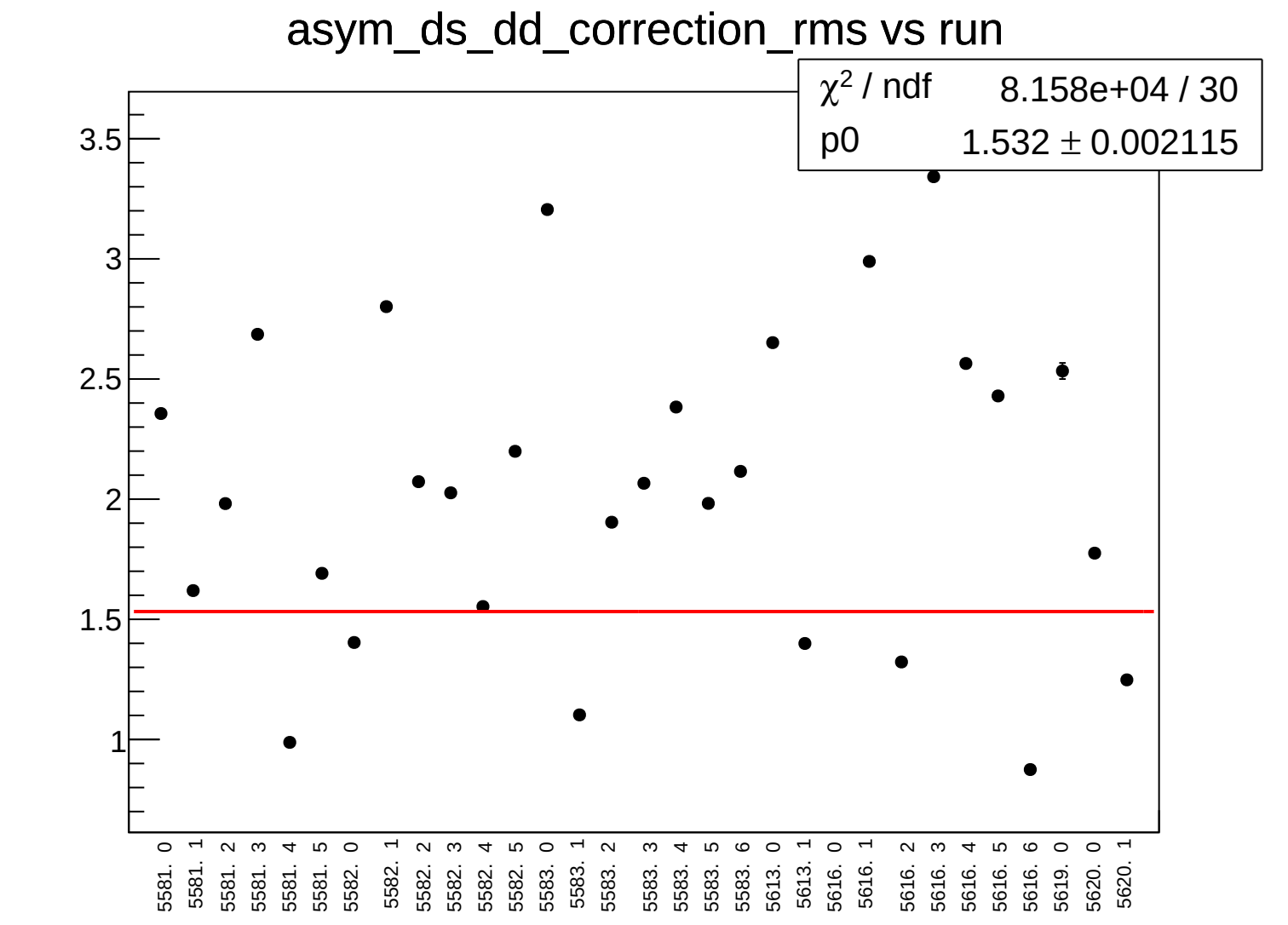

pull1D
Entries 31
Mean −0.006377
Std Dev 1.049
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

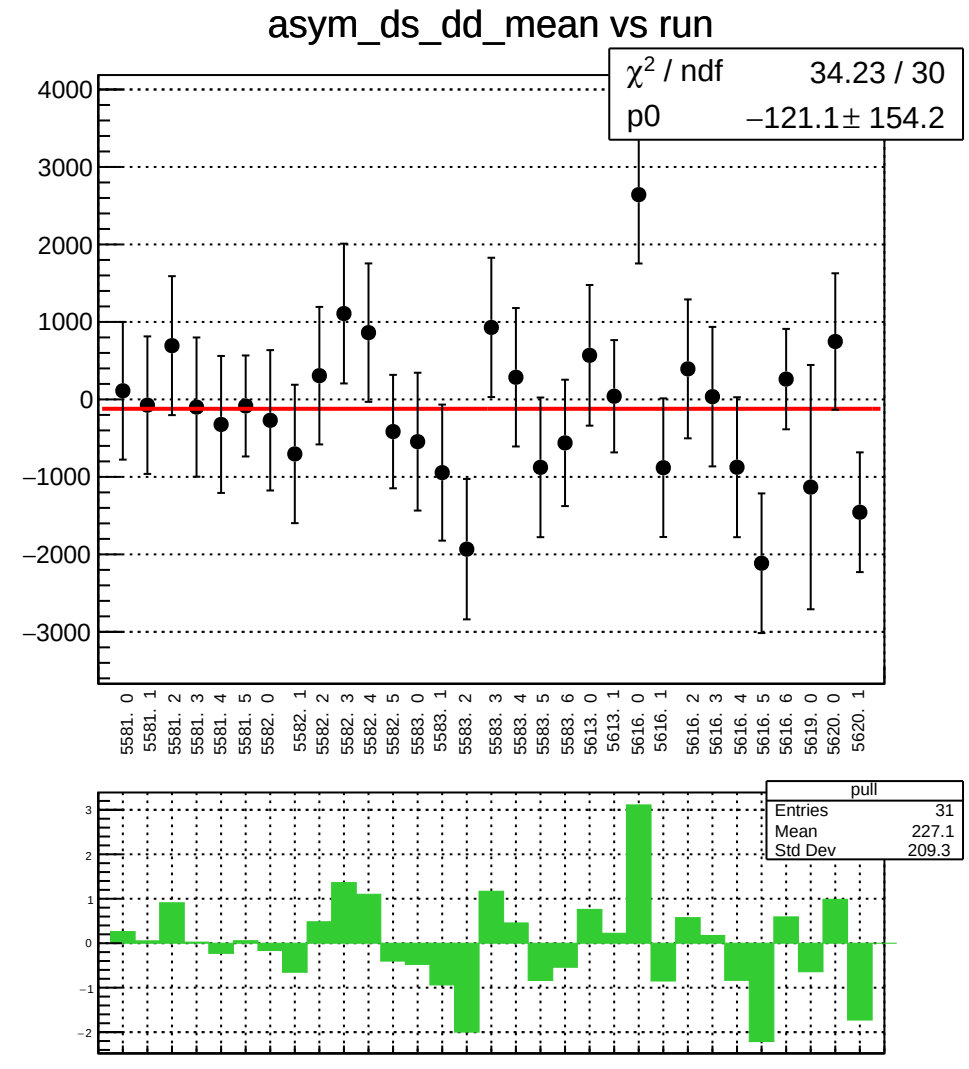

reg_asym_ds_dd_rms vs run
χ² / ndf 45.64 / 30
p0 84.88 ± 0.109
87
86.5
86
85.5
85
84.5
84
83.5
83
82.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

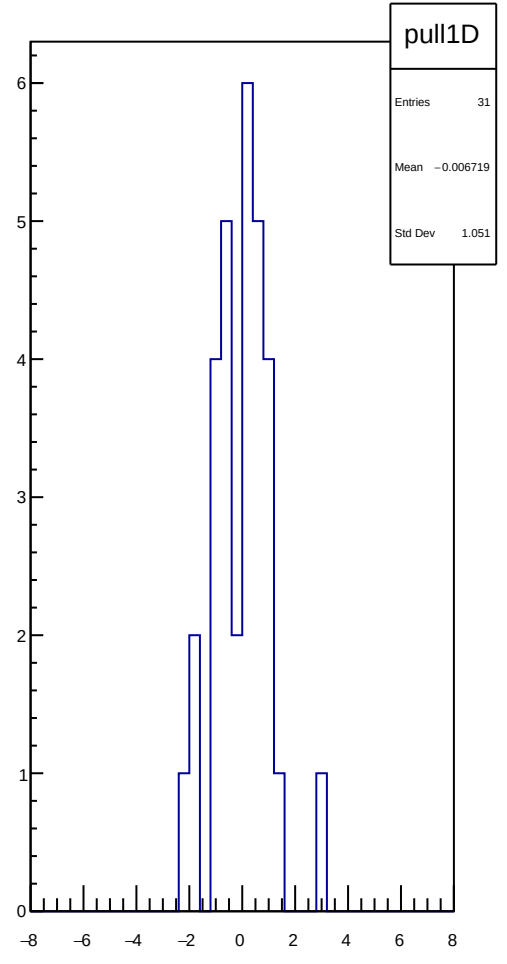

asym_ds_dd_correction_mean vs run
χ² / ndf 45.38 / 30
p0 −2.28 ± 2.991
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

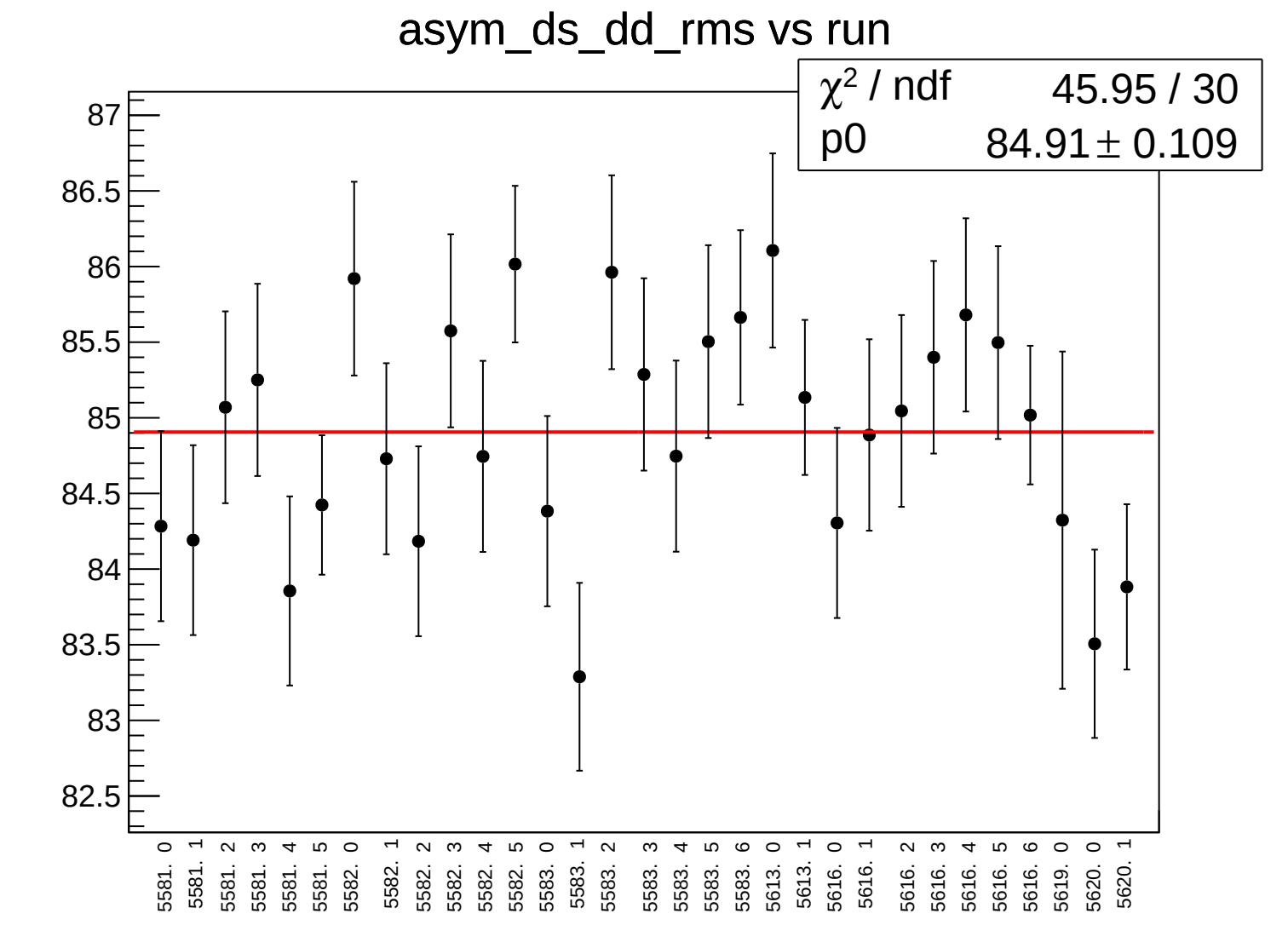

pull
Entries 31
Mean 47.57
Std Dev 31.57
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

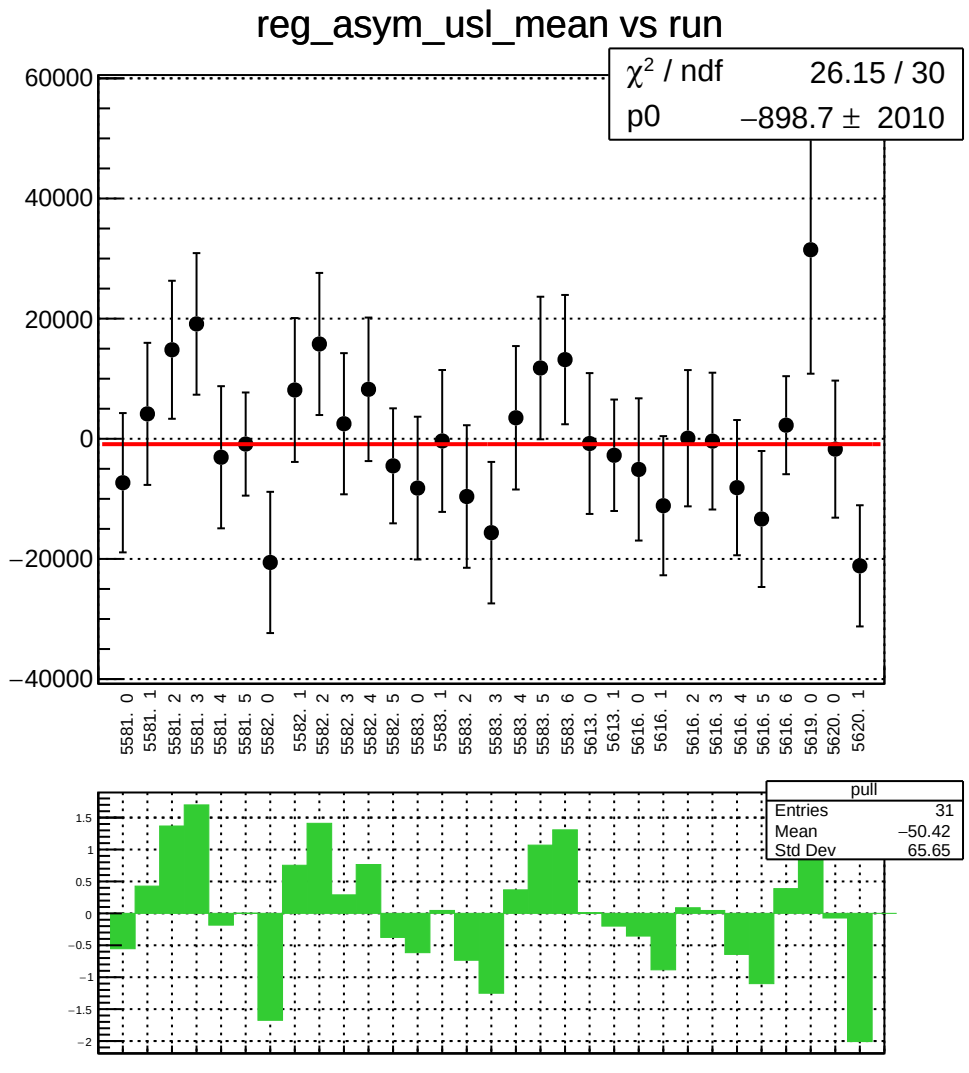

pull1D
Entries 31
Mean 0.03887
Std Dev 1.209
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

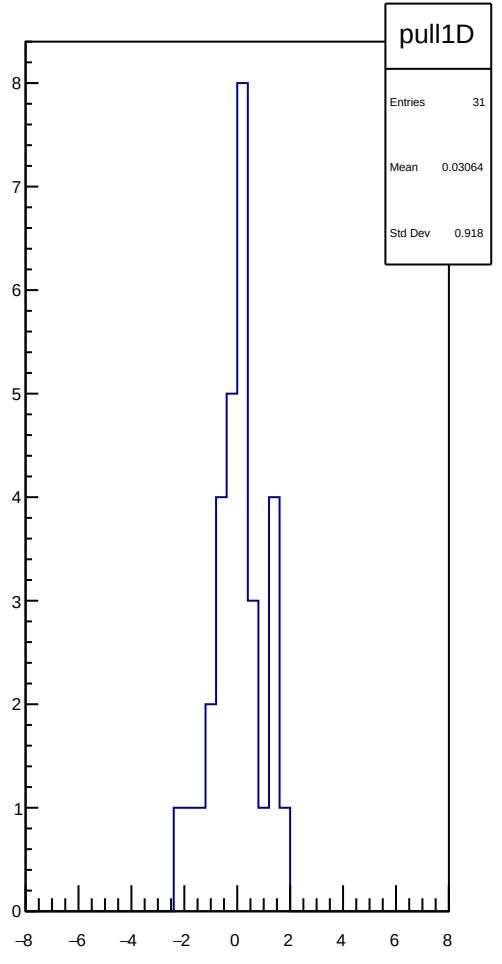

asym_ds_dd_correction_rms vs run
χ² / ndf 8.158e+04 / 30
p0 1.532 ± 0.002115
3.5
3
2.5
2
1.5
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

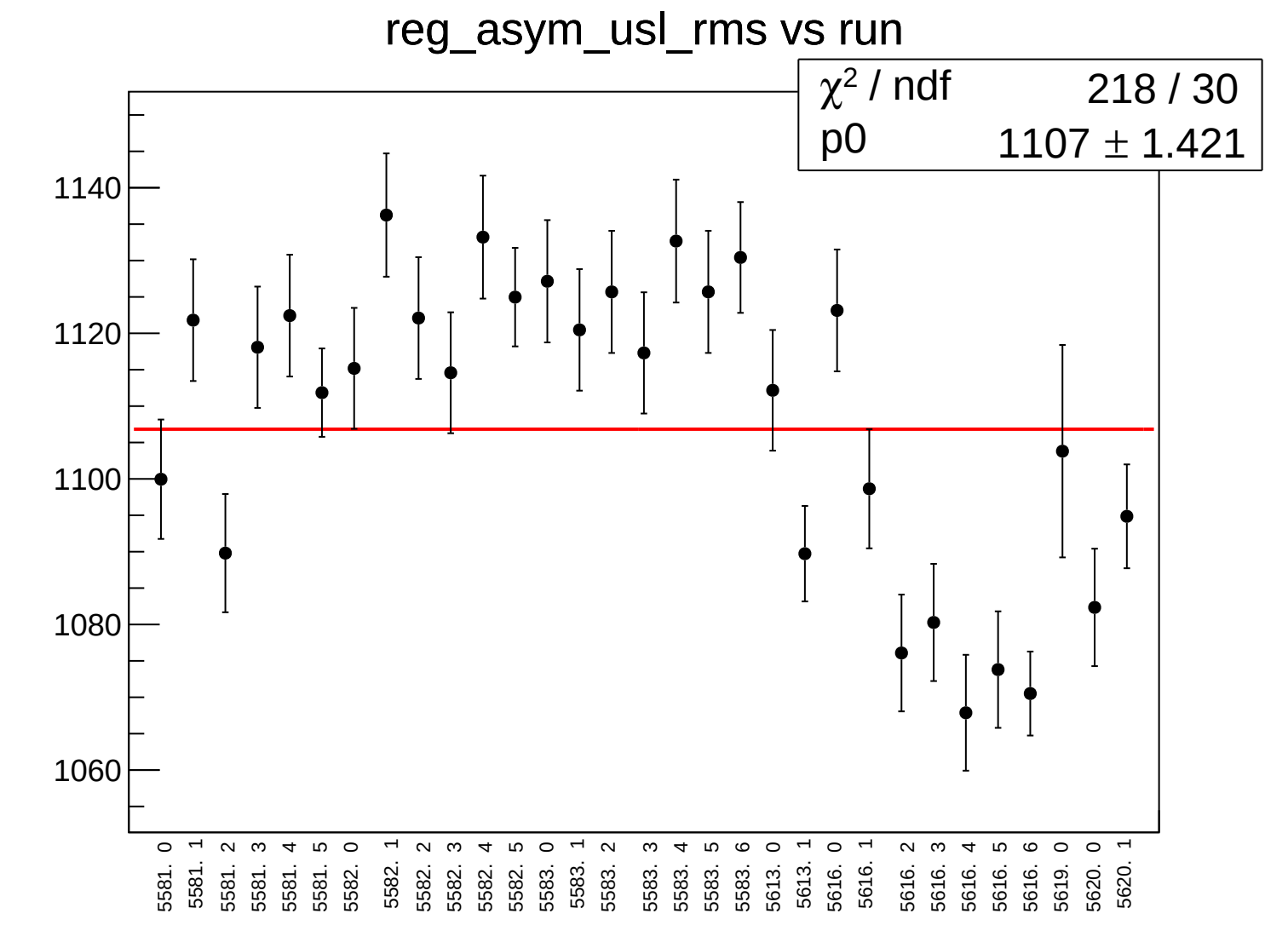

asym_ds_dd_mean vs run
χ² / ndf 34.23 / 30
p0 −121.1± 154.2
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 227.1
Std Dev 209.3
3
2
1
0
−1
−2

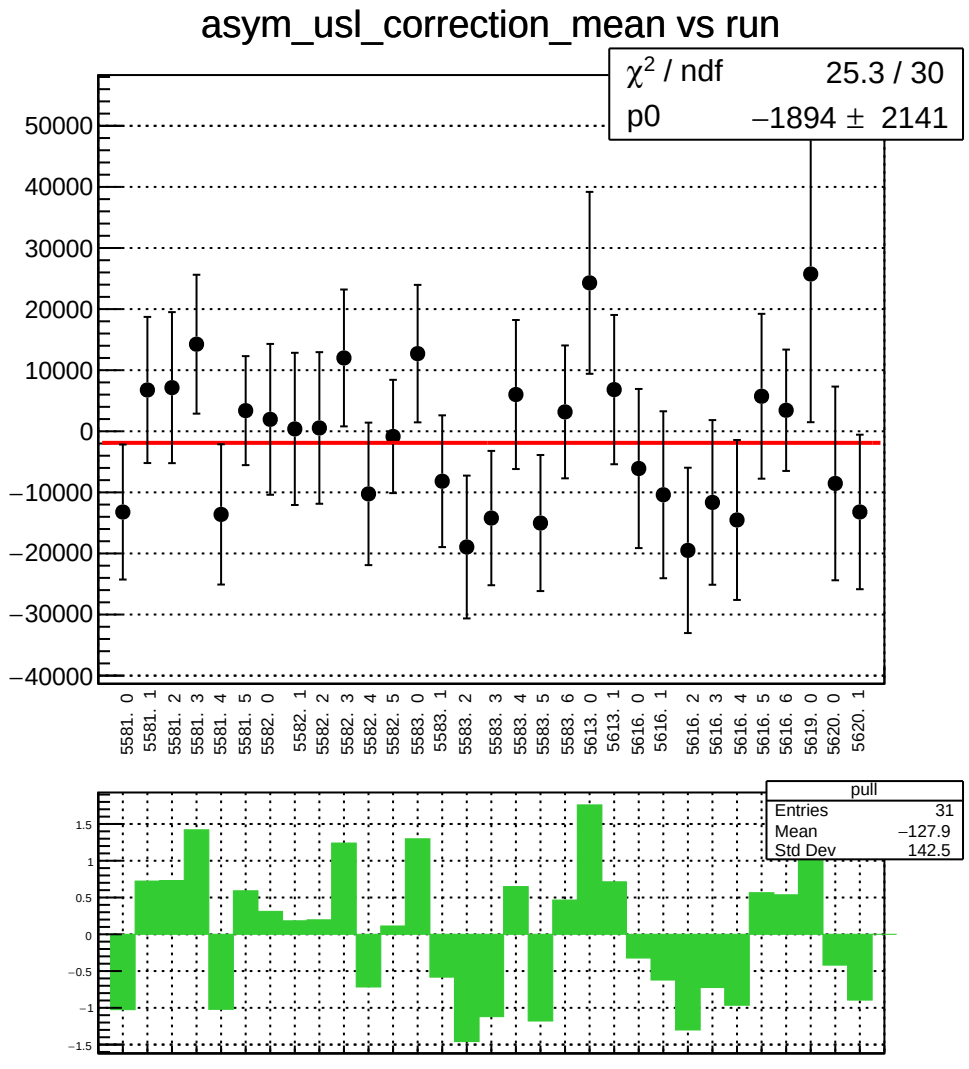

pull1D
Entries 31
Mean −0.006719
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

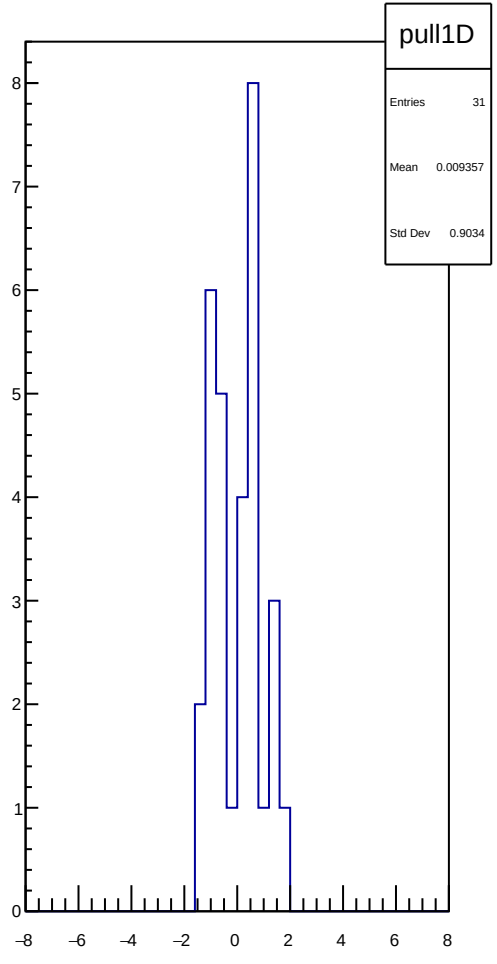

asym_ds_dd_rms vs run
χ^2 / ndf 45.95 / 30
p0 84.91 ± 0.109
87
86.5
86
85.5
85
84.5
84
83.5
83
82.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

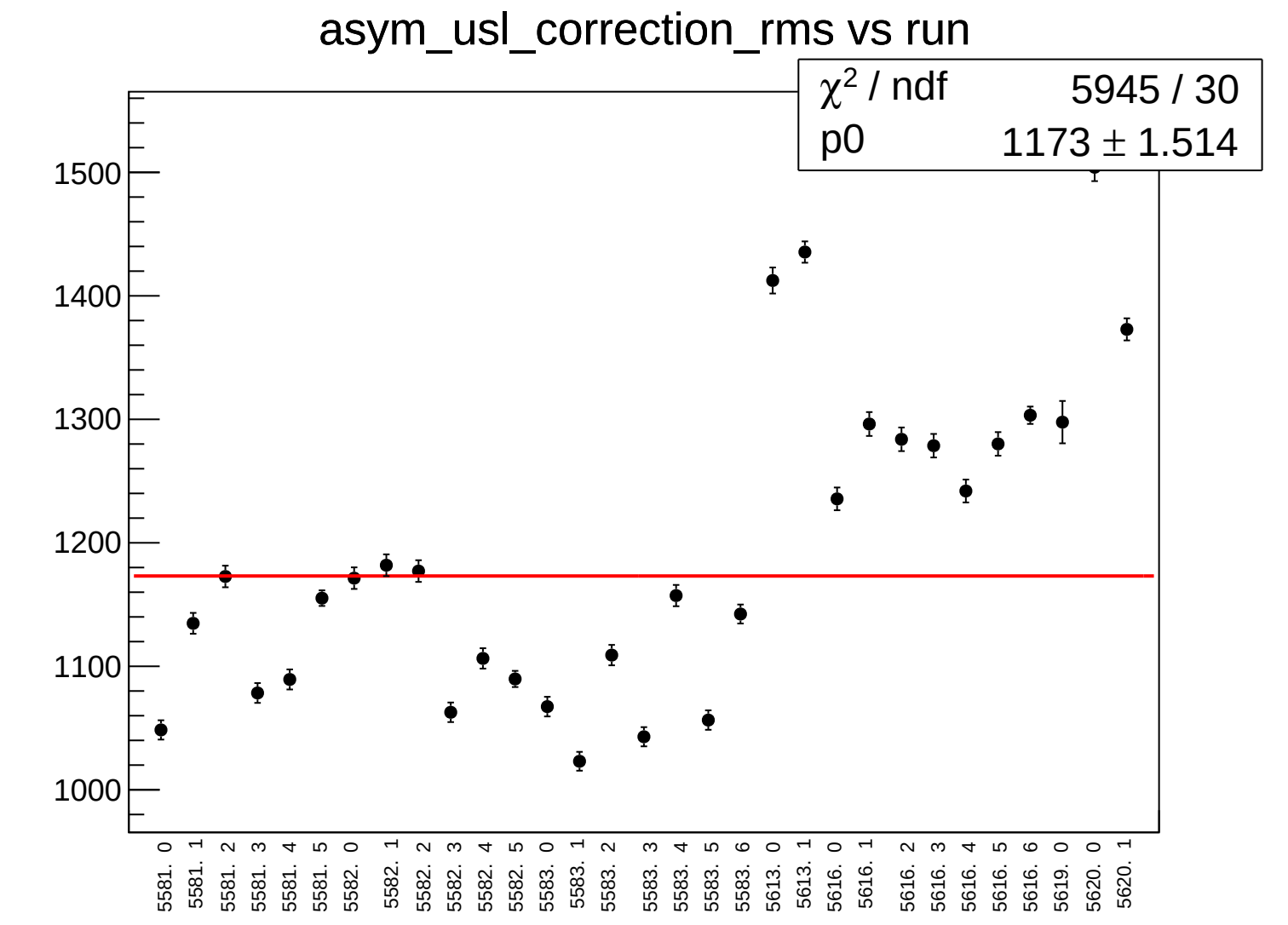

reg_asym_usl_mean vs run
χ² / ndf 26.15 / 30
p0 −898.7 ± 2010
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −50.42
Std Dev 65.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2

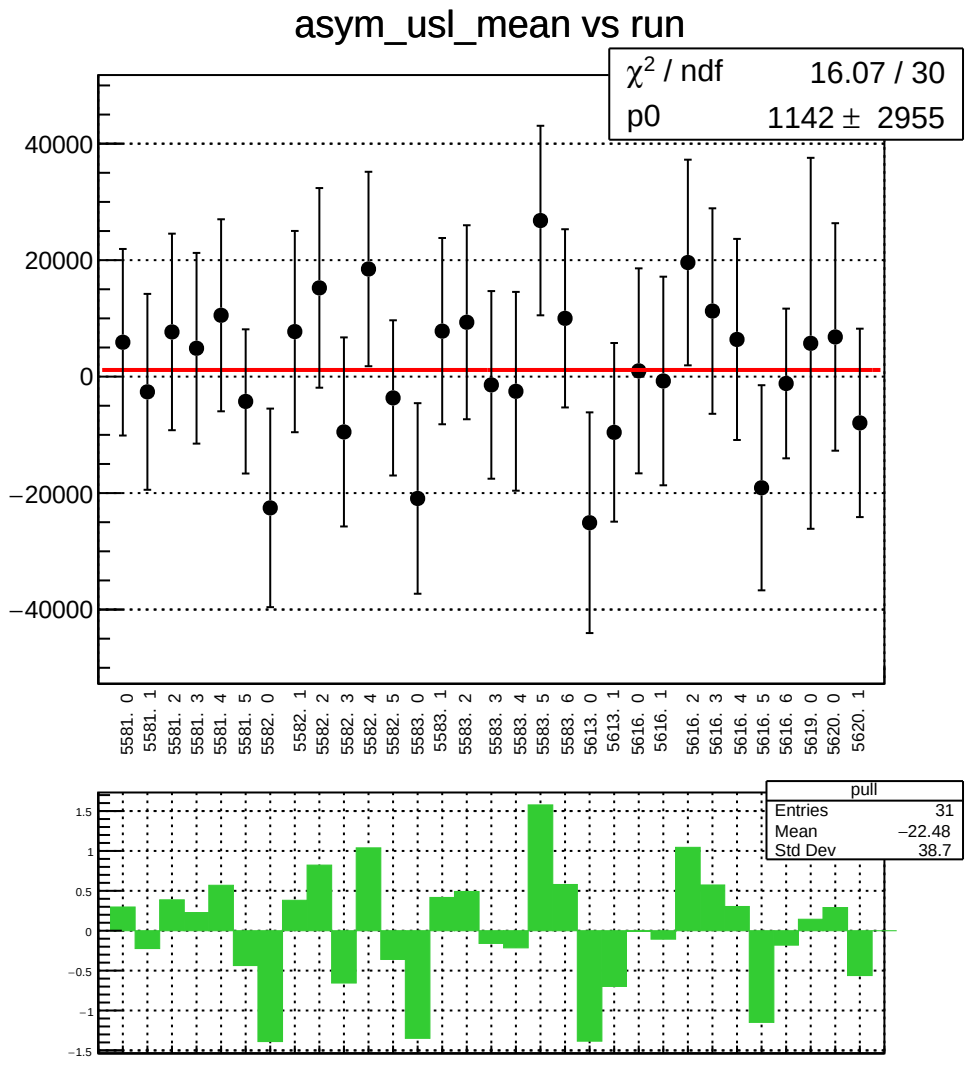

pull1D
Entries 31
Mean 0.03064
Std Dev 0.918
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

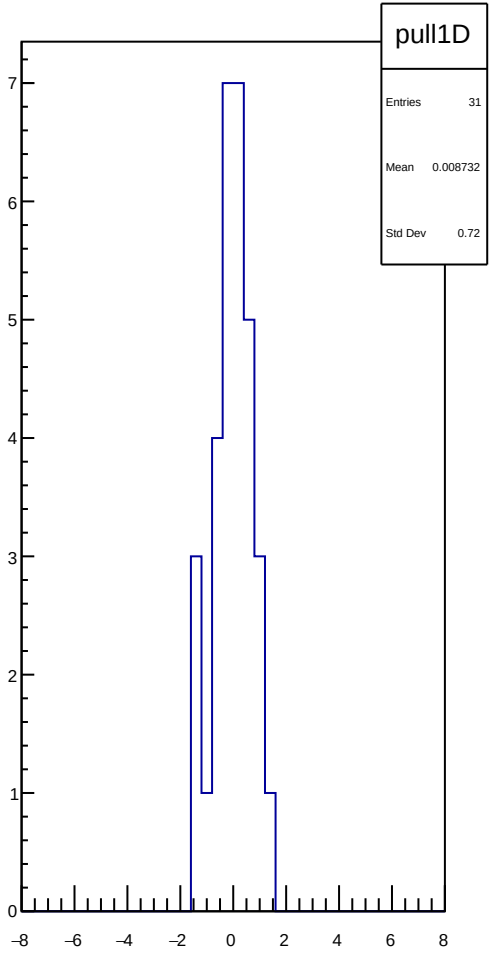

reg_asym_usl_rms vs run
χ² / ndf 218 / 30
p0 1107 ± 1.421
1140
1120
1100
1080
1060
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

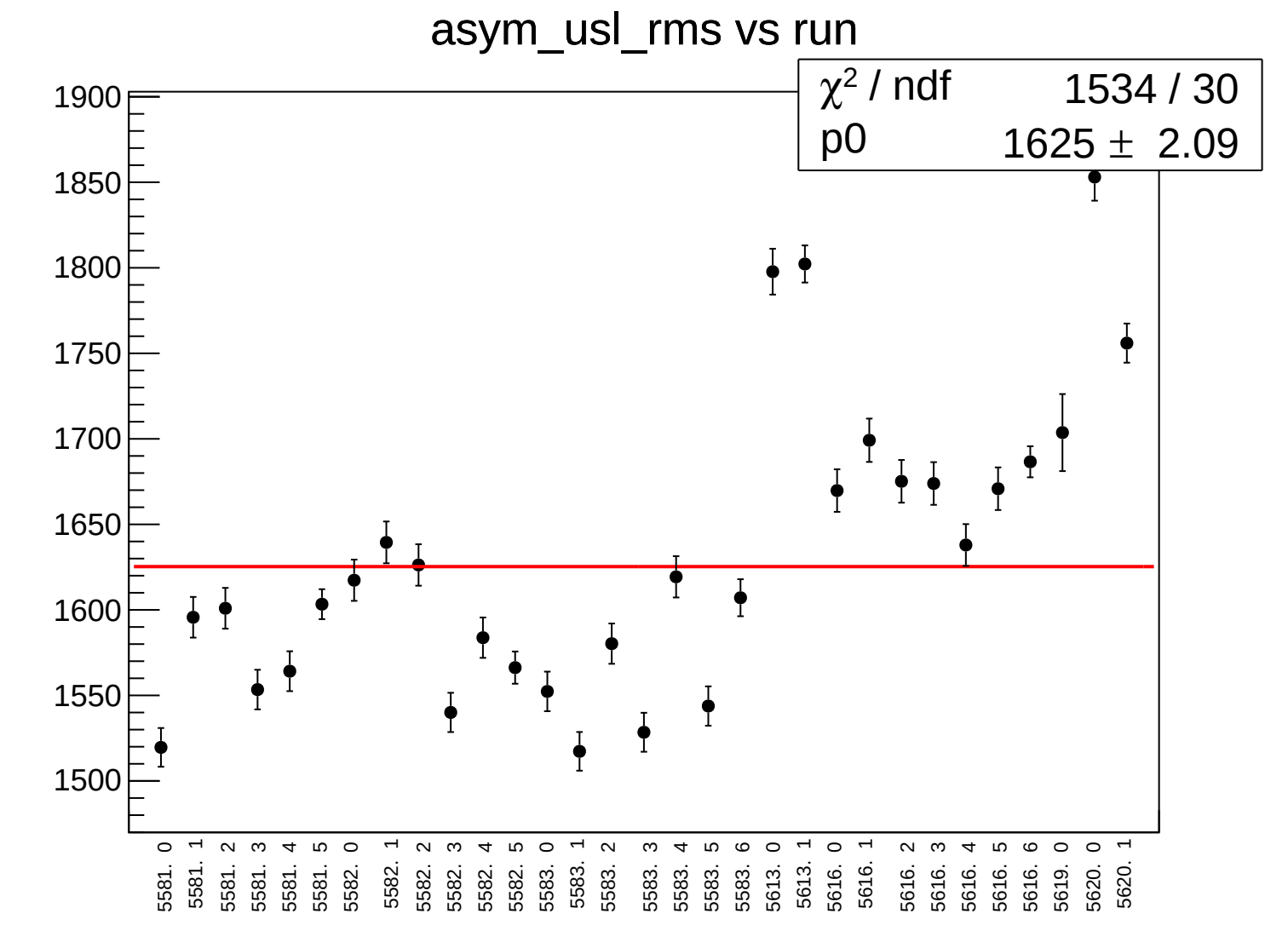

asym_usl_correction_mean vs run
χ² / ndf 25.3 / 30
p0 −1894 ± 2141
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −127.9
Std Dev 142.5
1.5
1
0.5
0
−0.5
−1
−1.5

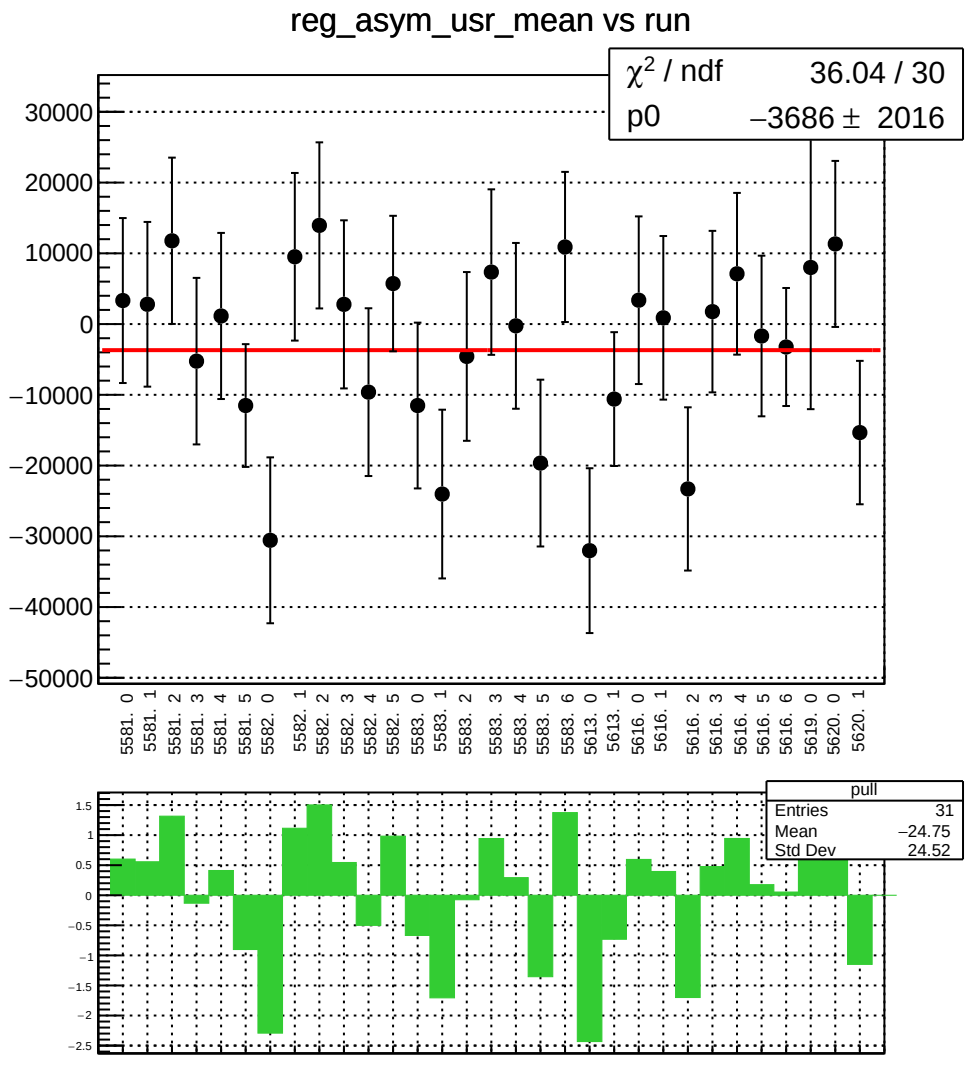

pull1D
Entries 31
Mean 0.009357
Std Dev 0.9034
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

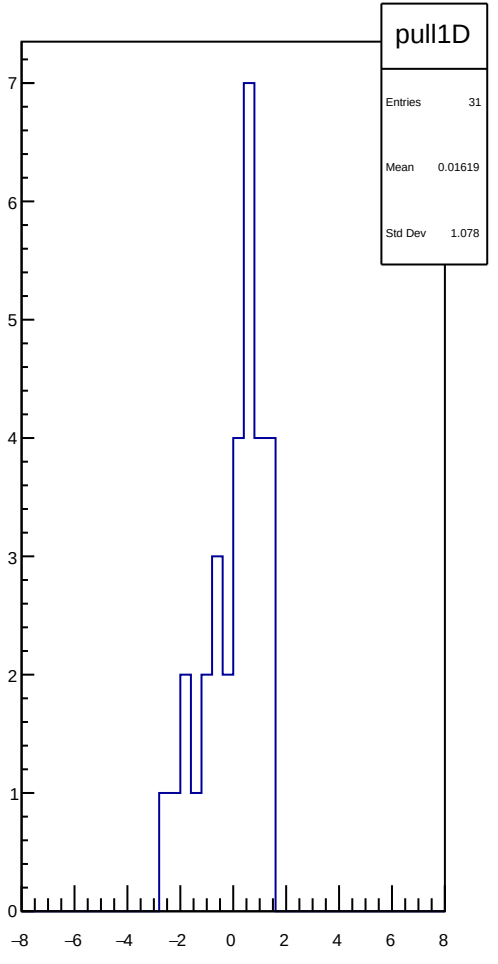

asym_usl_correction_rms vs run
χ² / ndf 5945 / 30
p0 1173 ± 1.514
1500
1400
1300
1200
1100
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

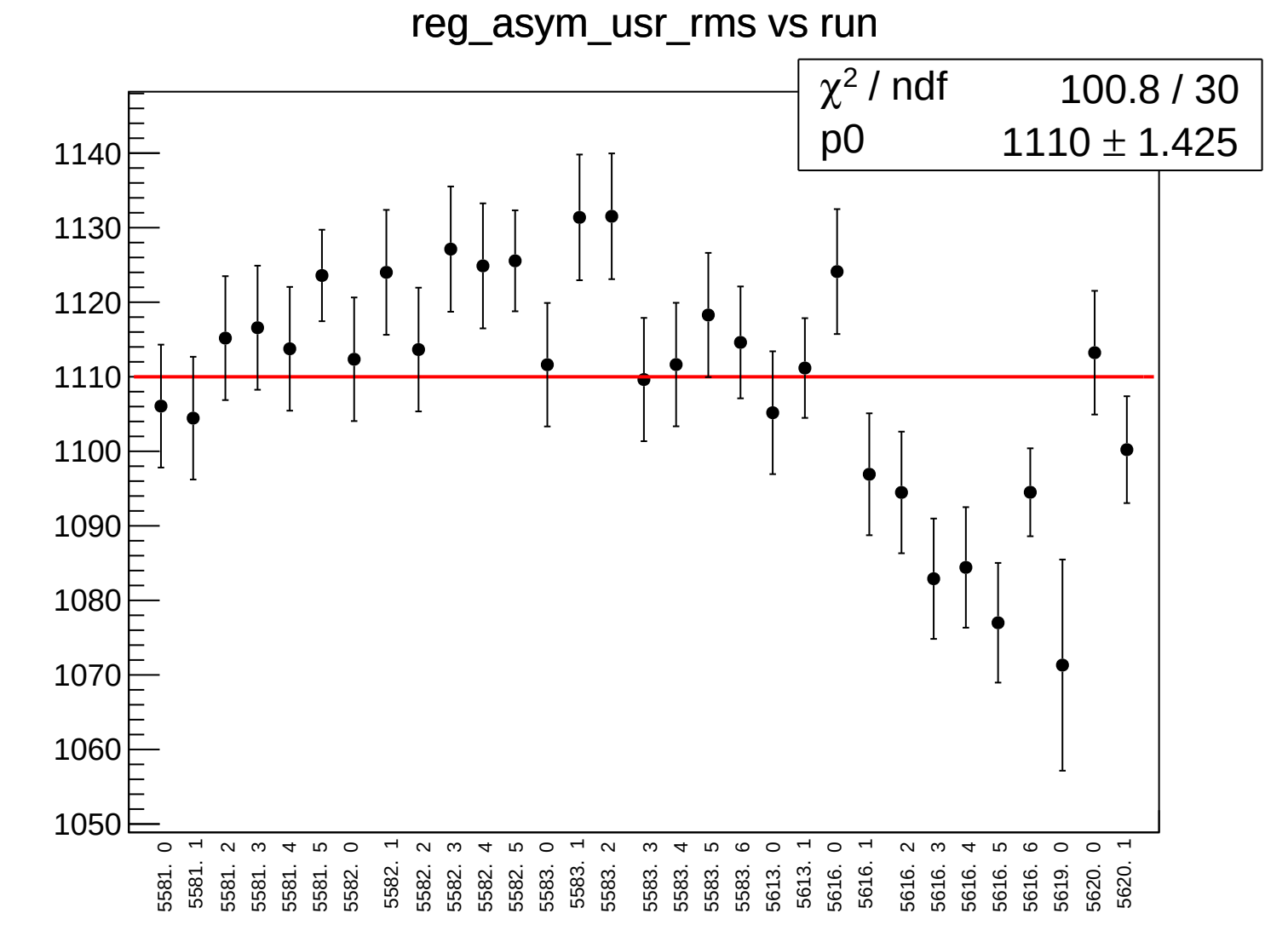

asym_usl_mean vs run
χ² / ndf 16.07 / 30
p0 1142 ± 2955
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −22.48
Std Dev 38.7
1.5
1
0.5
0
−0.5
−1
−1.5

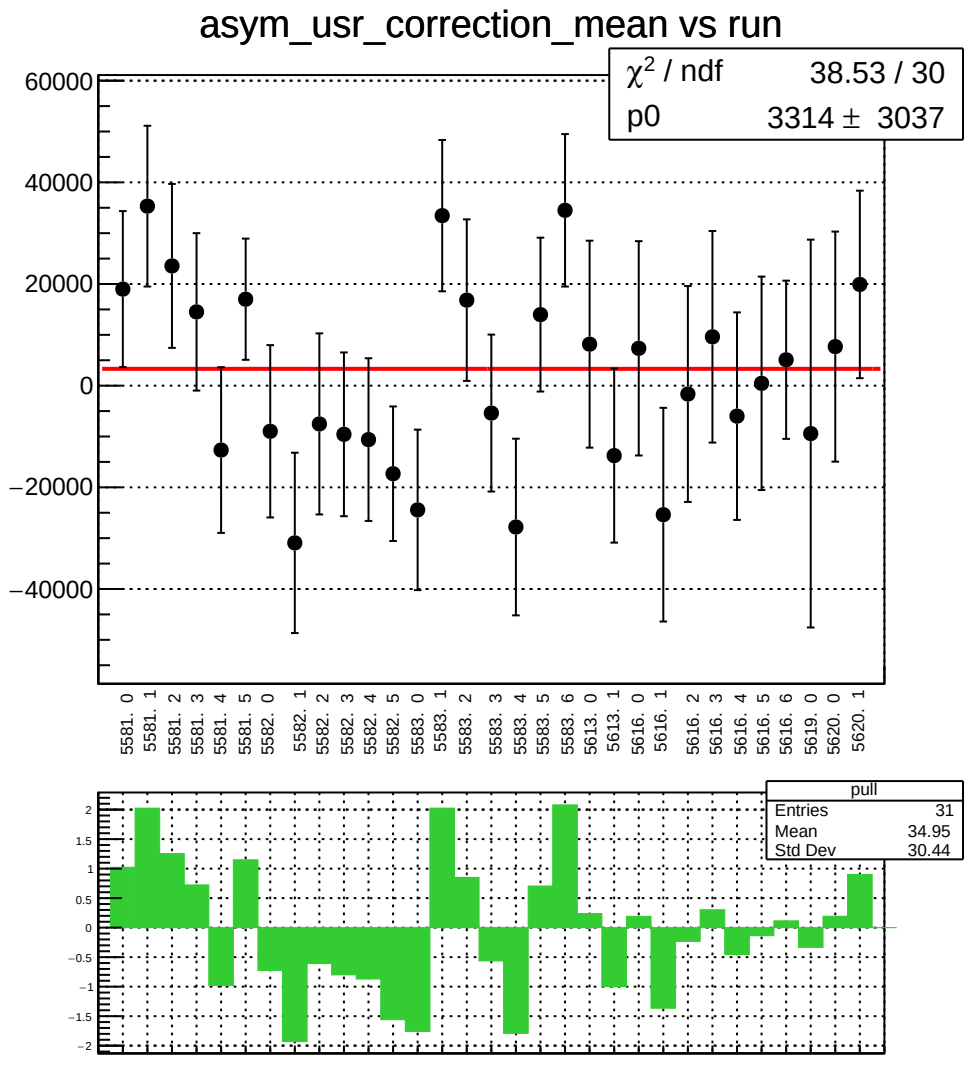

pull1D
Entries 31
Mean 0.008732
Std Dev 0.72
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

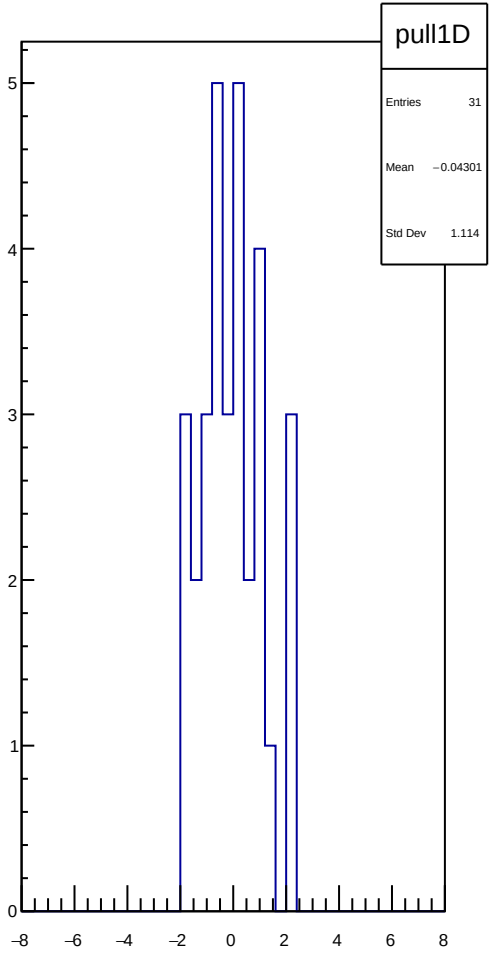

asym_usl_rms vs run
χ² / ndf 1534 / 30
p0 1625 ± 2.09
1900
1850
1800
1750
1700
1650
1600
1550
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1


reg_asym_usr_mean vs run
χ² / ndf 36.04 / 30
p0 −3686 ± 2016
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −24.75
Std Dev 24.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

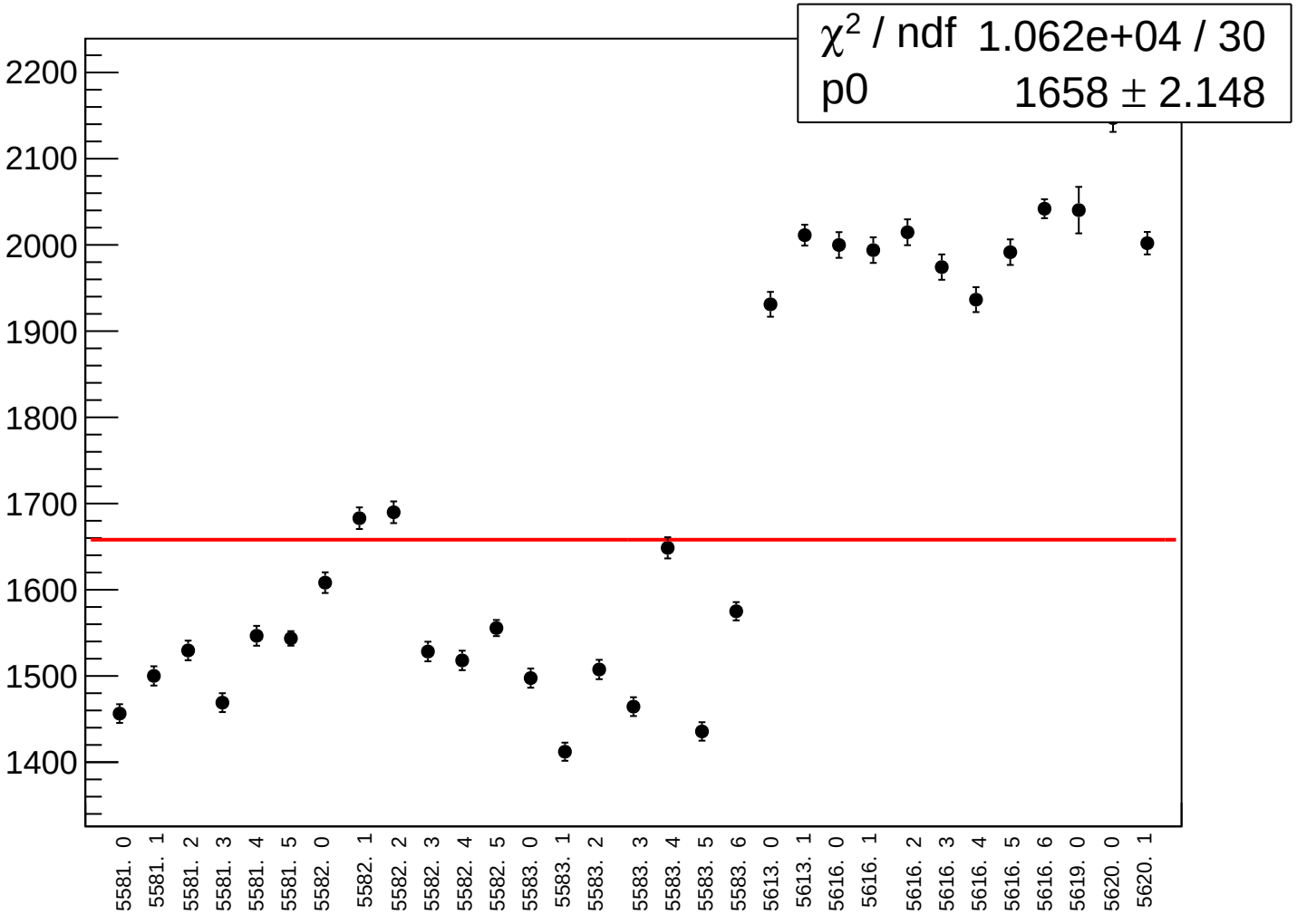

pull1D
Entries 31
Mean 0.01619
Std Dev 1.078
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

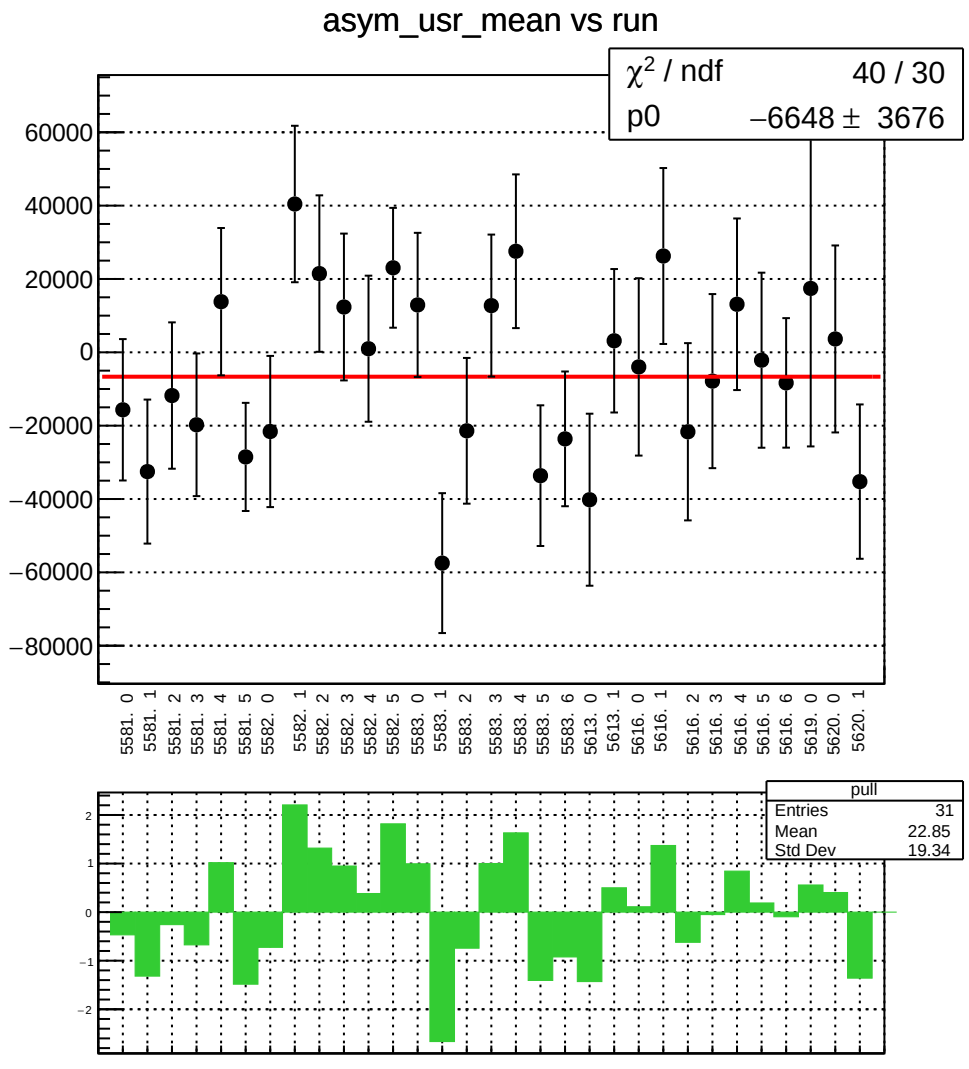

reg_asym_usr_rms vs run
χ² / ndf 100.8 / 30
p0 1110 ± 1.425
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

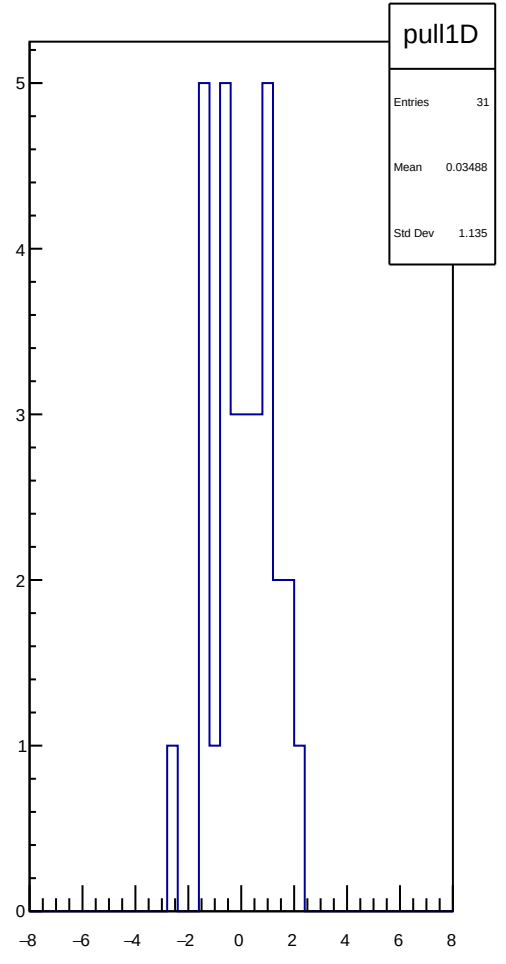

asym_usr_correction_mean vs run
χ² / ndf 38.53 / 30
p0 3314 ± 3037
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.95
Std Dev 30.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

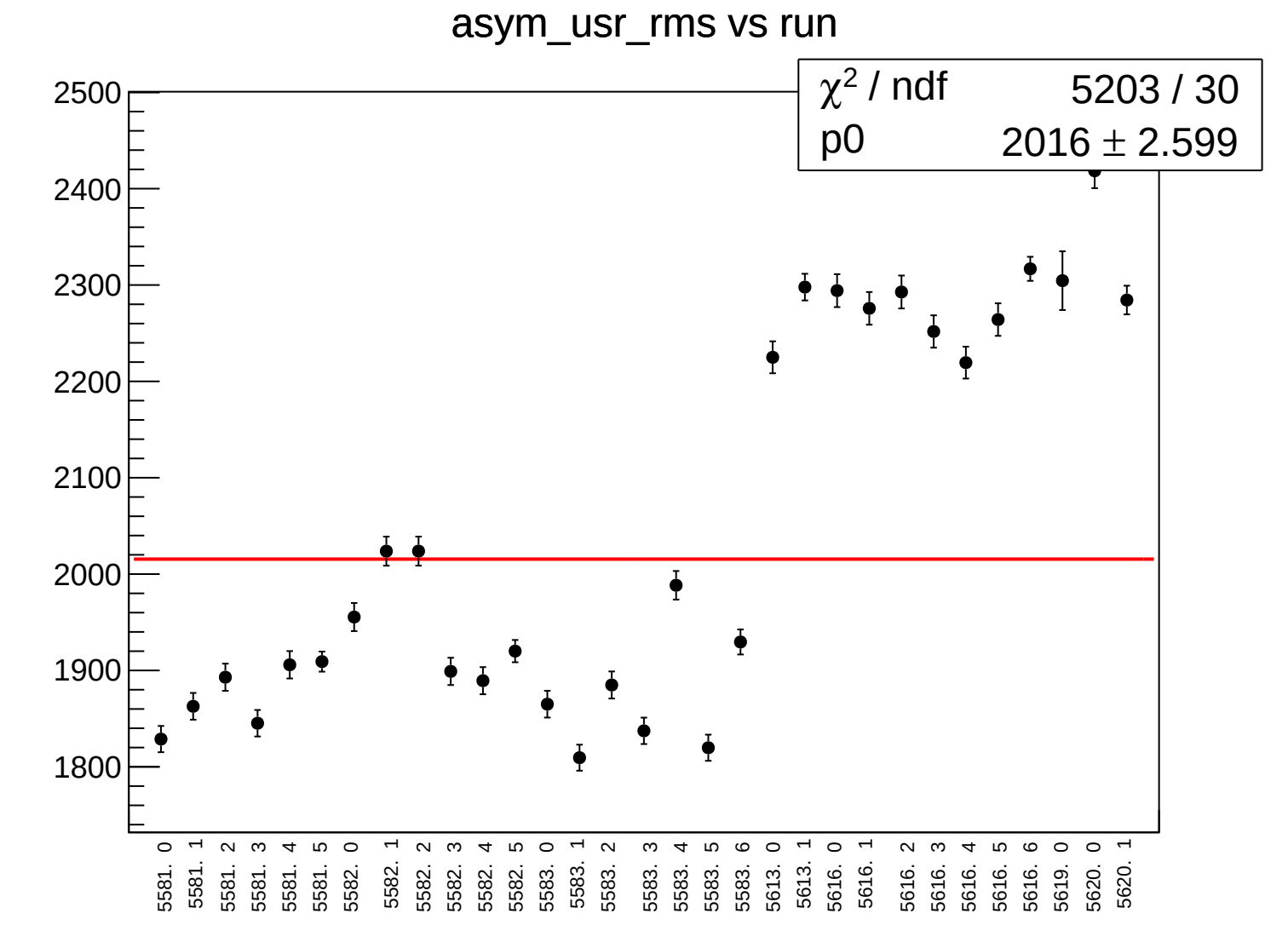

pull1D
Entries 31
Mean −0.04301
Std Dev 1.114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

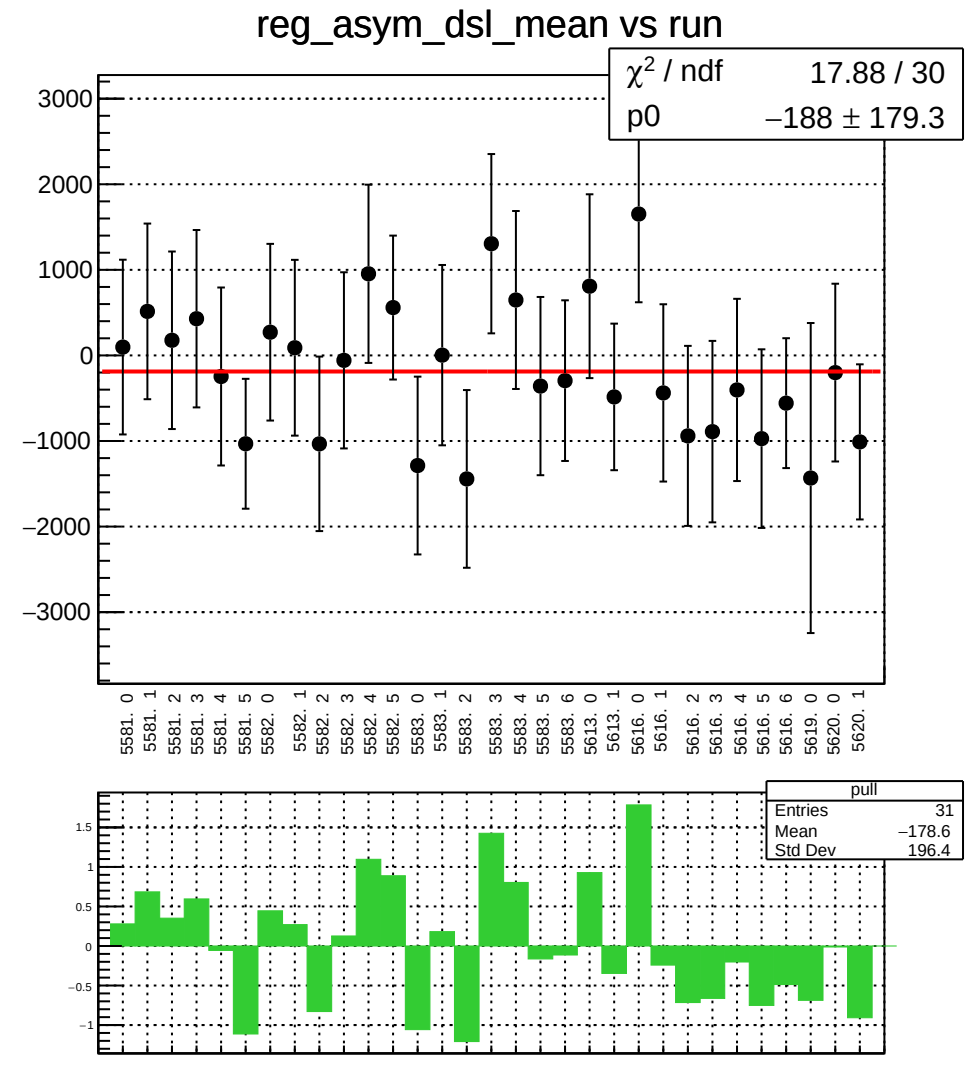
asym_usr_correction_rms vs run

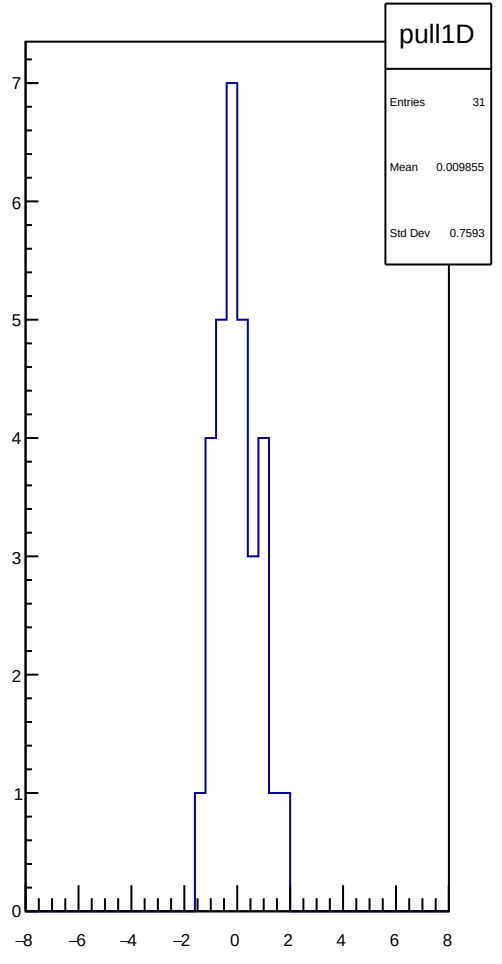


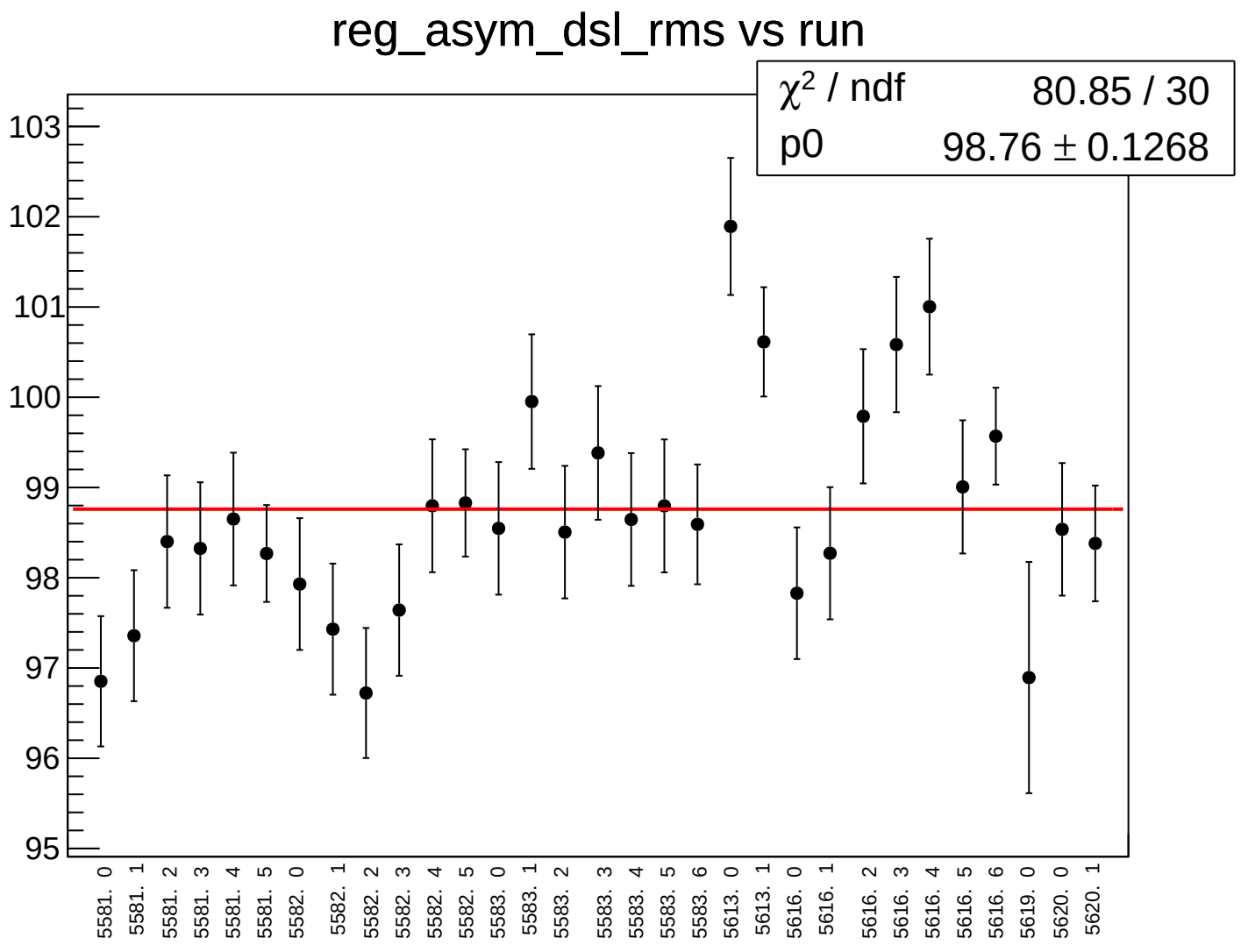

asym_usr_mean vs run
χ² / ndf 40 / 30
p0 −6648 ± 3676
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 22.85
Std Dev 19.34
2
1
0
−1
−2

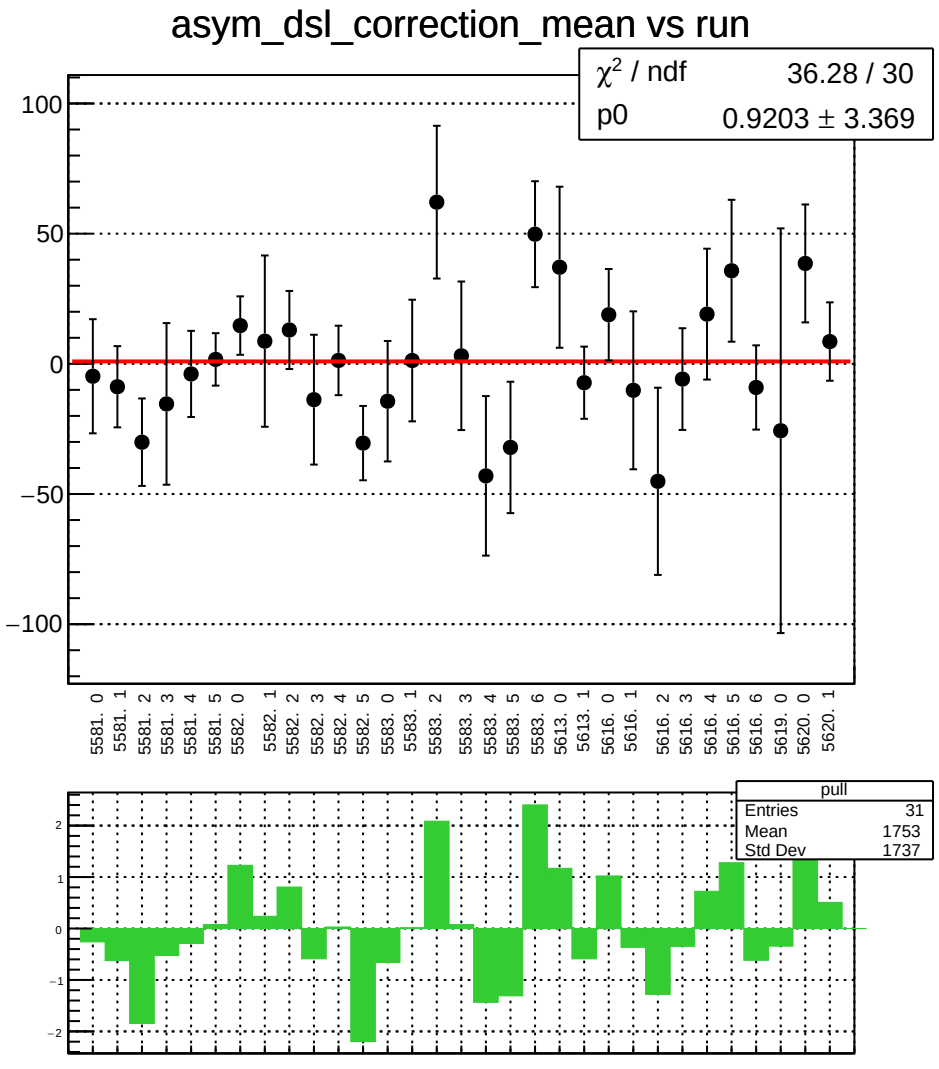

pull1D
Entries 31
Mean 0.03488
Std Dev 1.135
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

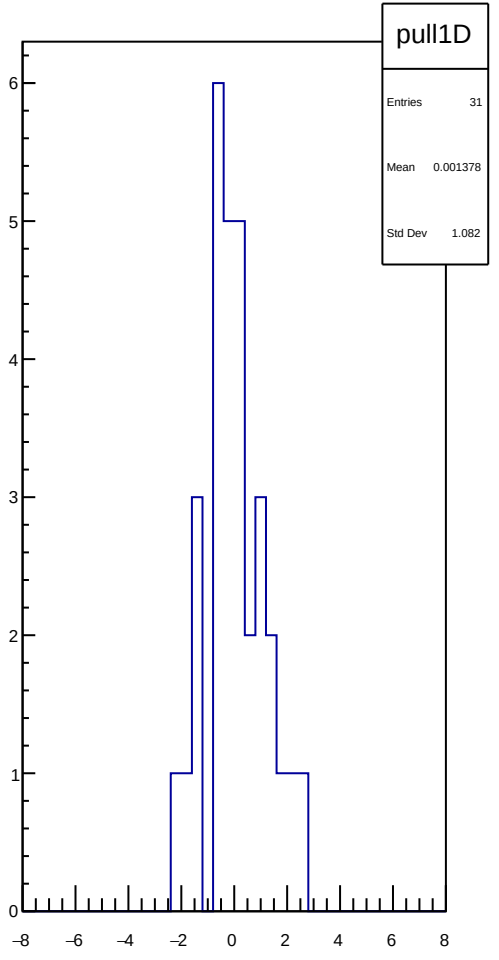

asym_usr_rms vs run
χ² / ndf 5203 / 30
p0 2016 ± 2.599
2500
2400
2300
2200
2100
2000
1900
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

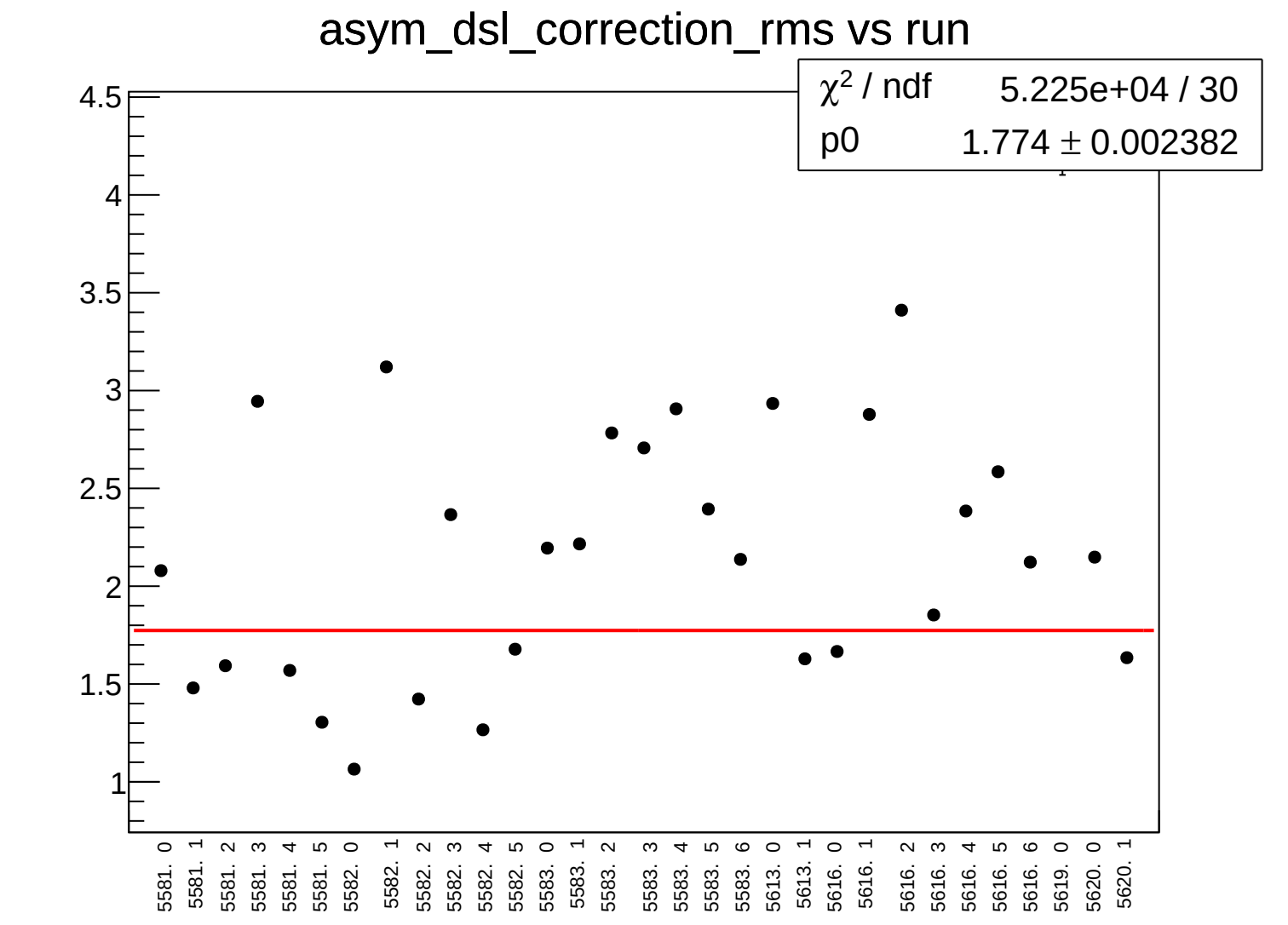

reg_asym_dsl_mean vs run
χ² / ndf 17.88 / 30
p0 −188 ± 179.3
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −178.6
Std Dev 196.4
1.5
1
0.5
0
−0.5
−1

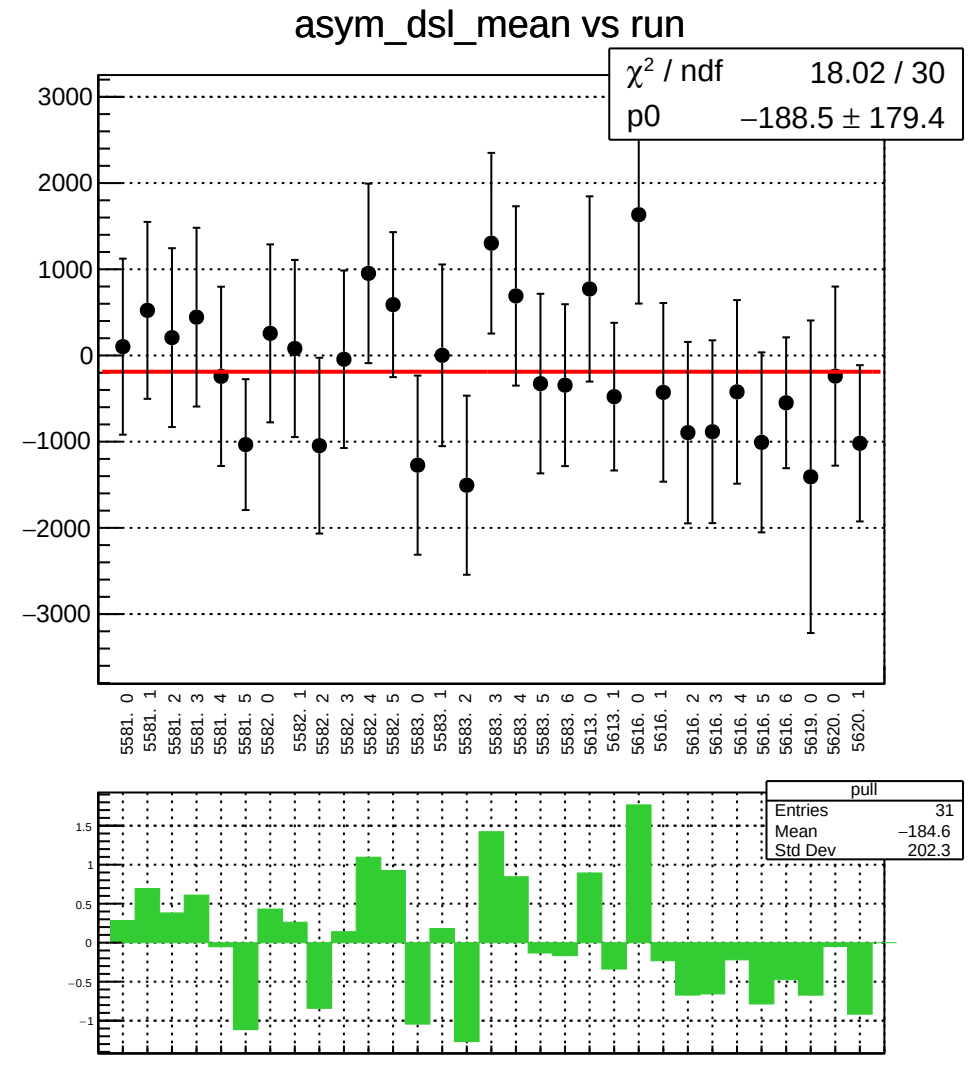

pull1D
Entries 31
Mean 0.009855
Std Dev 0.7593
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

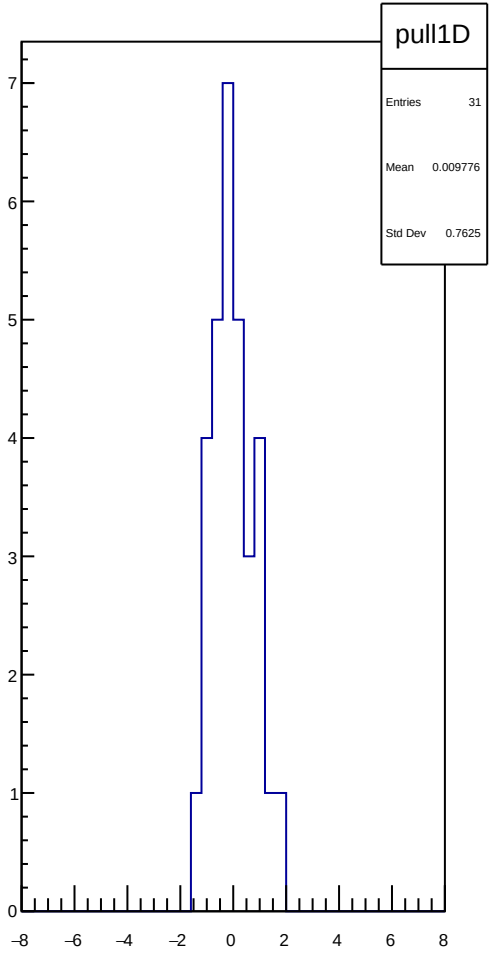

reg_asym_dsl_rms vs run
χ² / ndf 80.85 / 30
p0 98.76 ± 0.1268
103
102
101
100
99
98
97
96
95
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

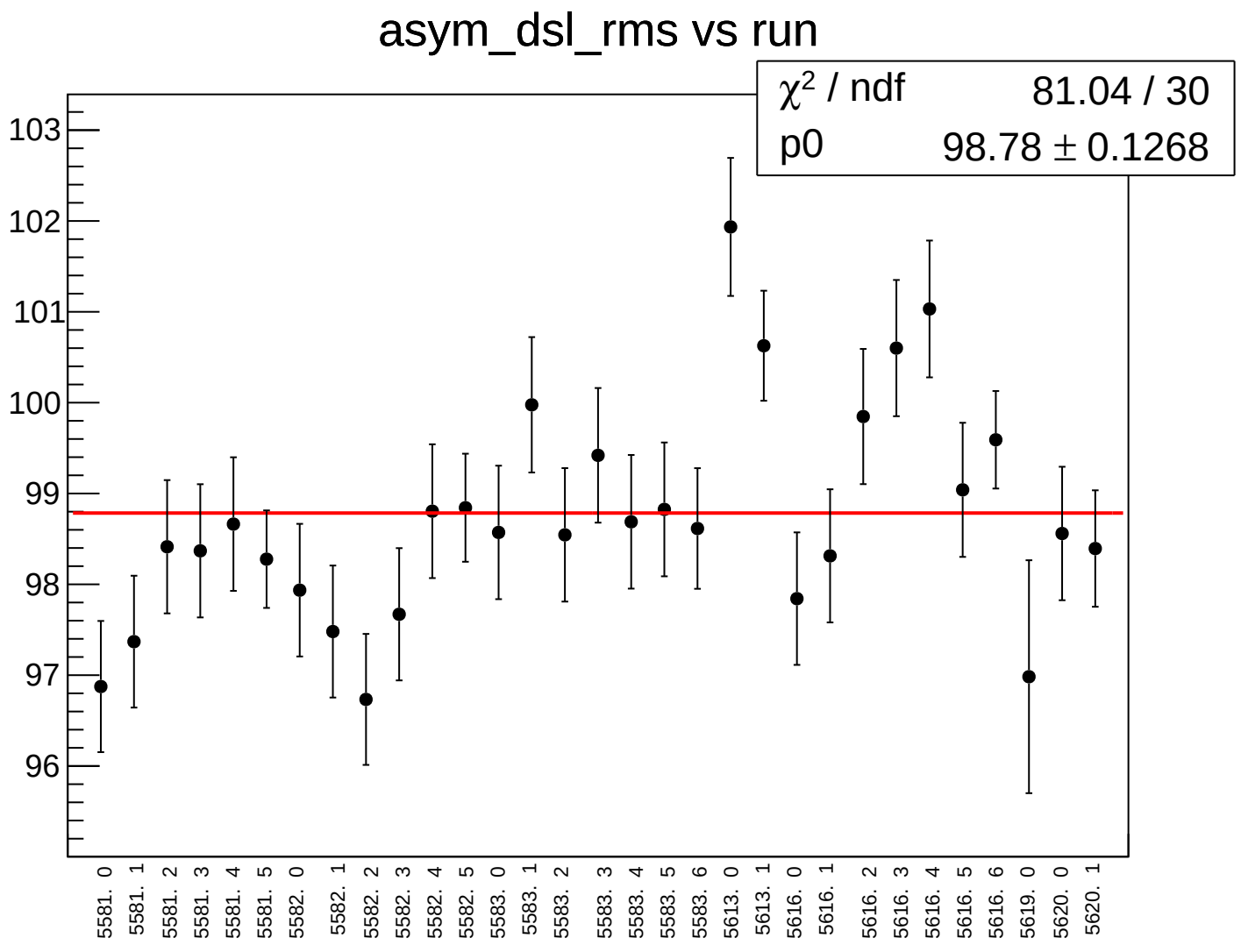

asym_dsl_correction_mean vs run
χ² / ndf 36.28 / 30
p0 0.9203 ± 3.369
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1753
Std Dev 1737
2
1
0
−1
−2

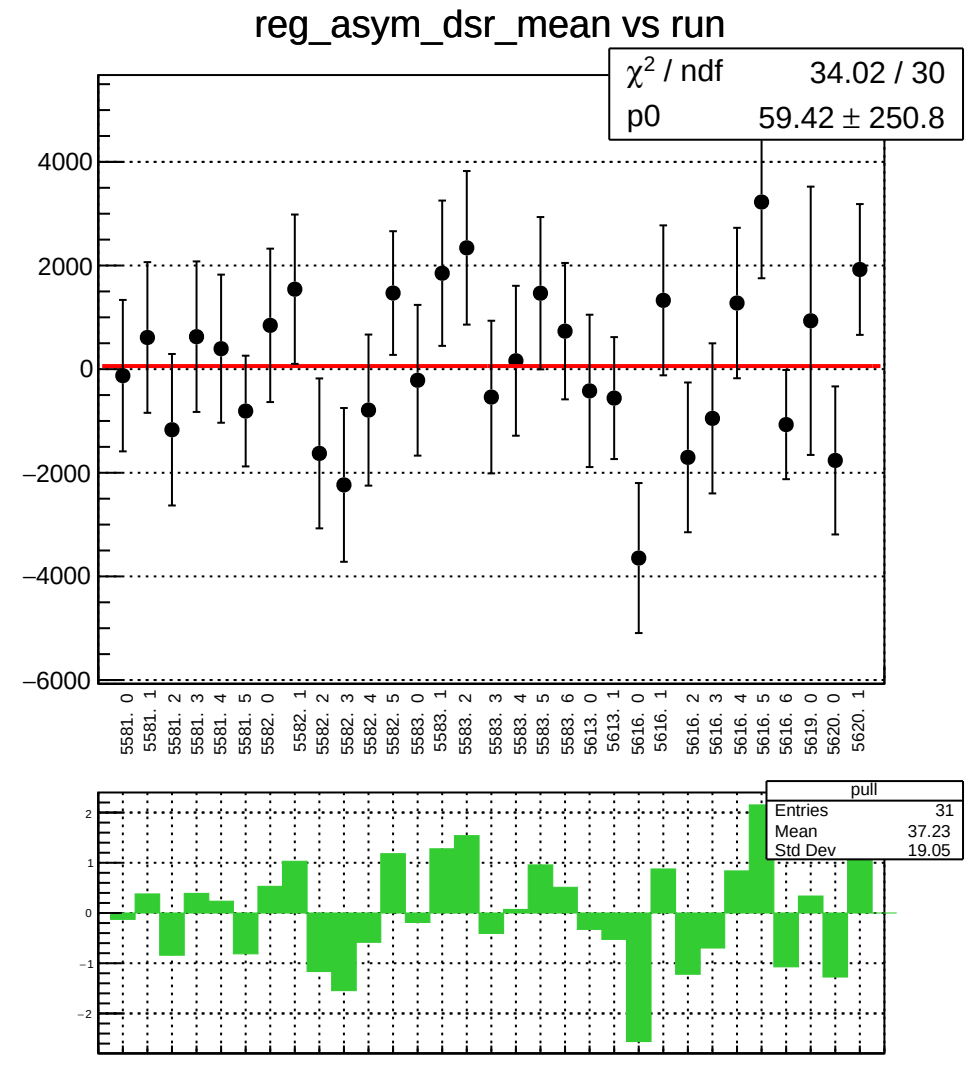

pull1D
Entries 31
Mean 0.001378
Std Dev 1.082
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

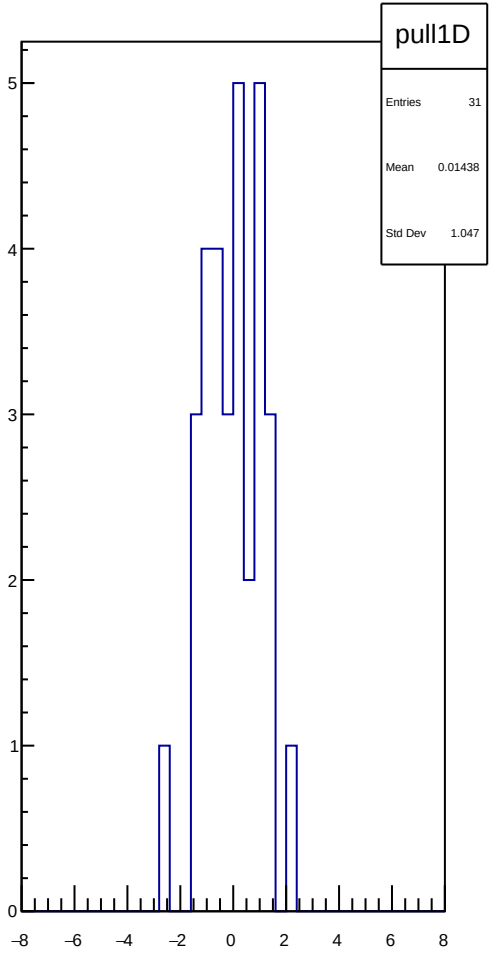

asym_dsl_correction_rms vs run
χ² / ndf 5.225e+04 / 30
p0 1.774 ± 0.002382
4.5
4
3.5
3
2.5
2
1.5
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

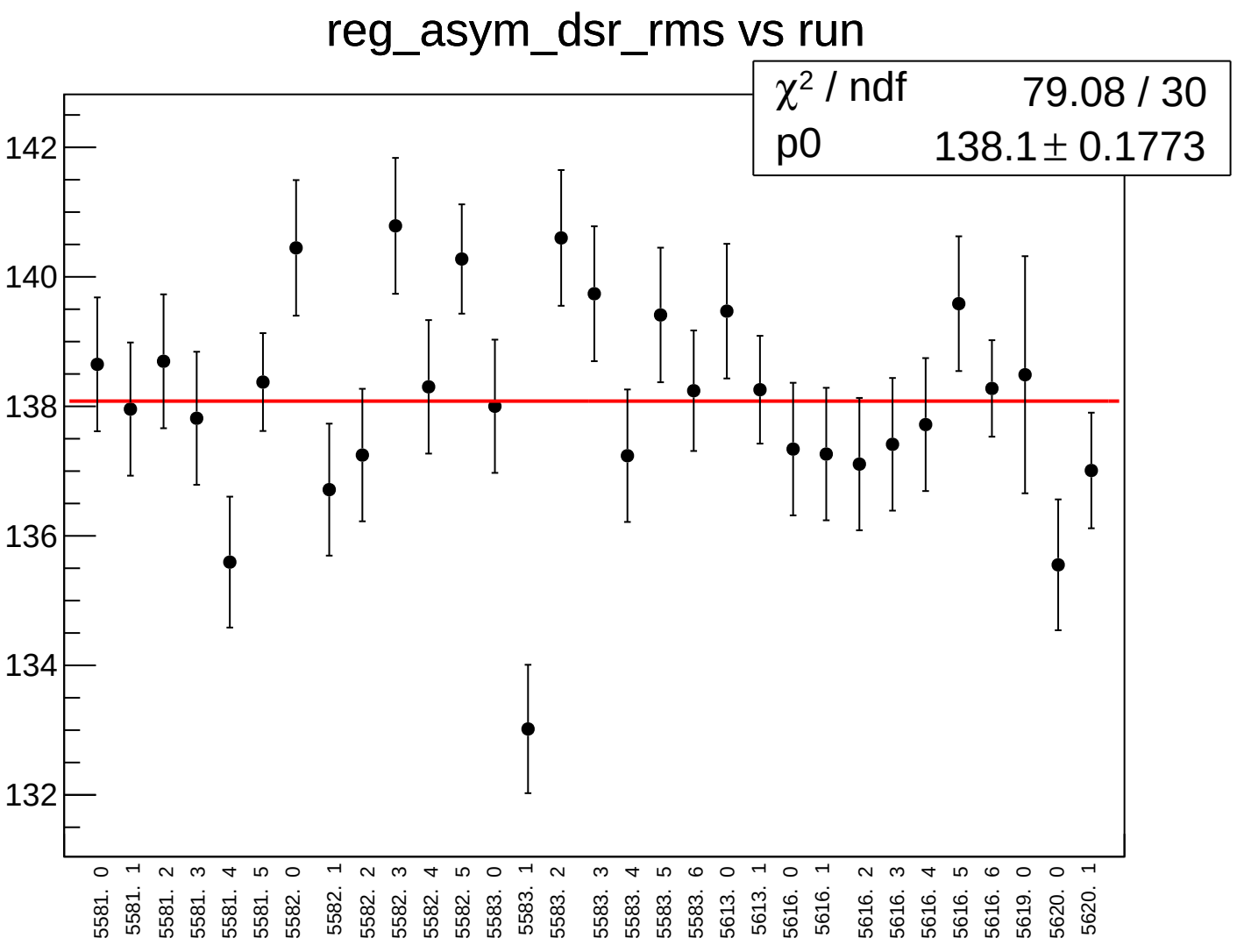

asym_dsl_mean vs run
χ² / ndf 18.02 / 30
p0 −188.5 ± 179.4
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −184.6
Std Dev 202.3
1.5
1
0.5
0
−0.5
−1

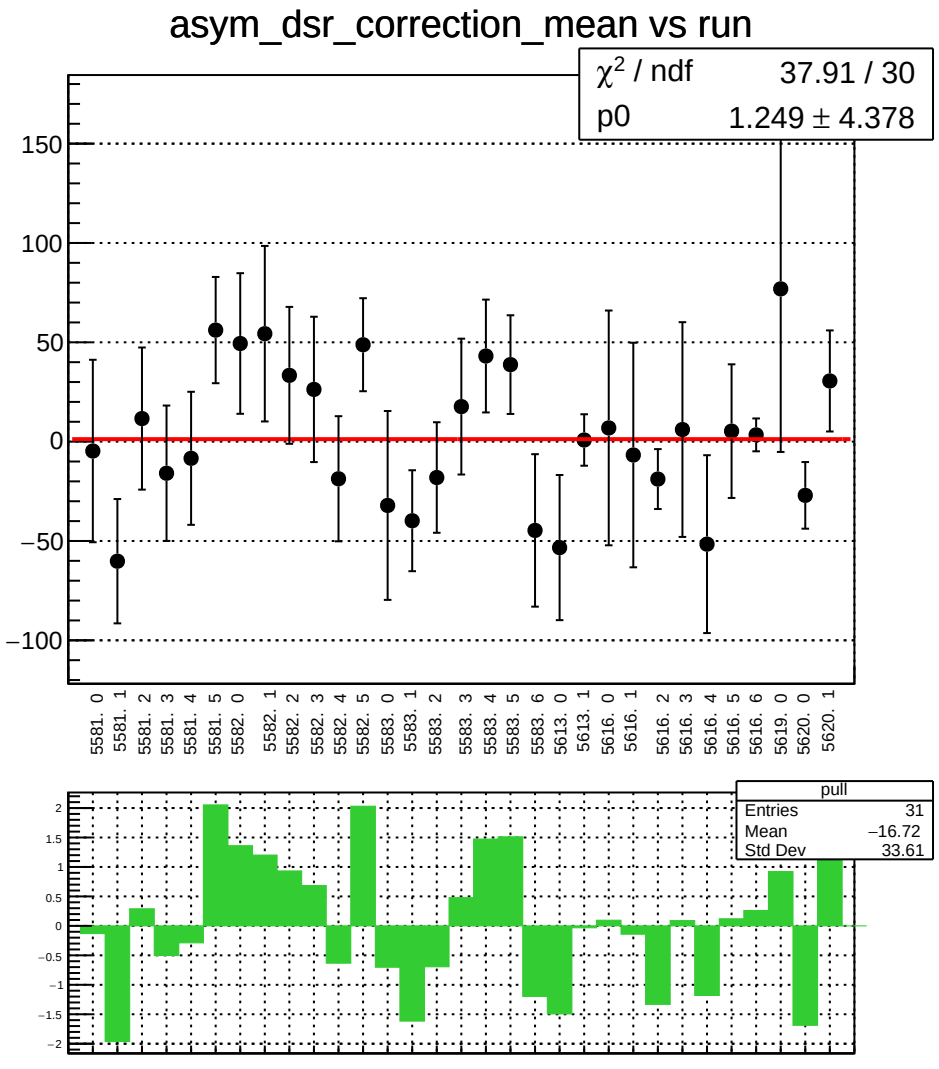

pull1D
Entries 31
Mean 0.009776
Std Dev 0.7625
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

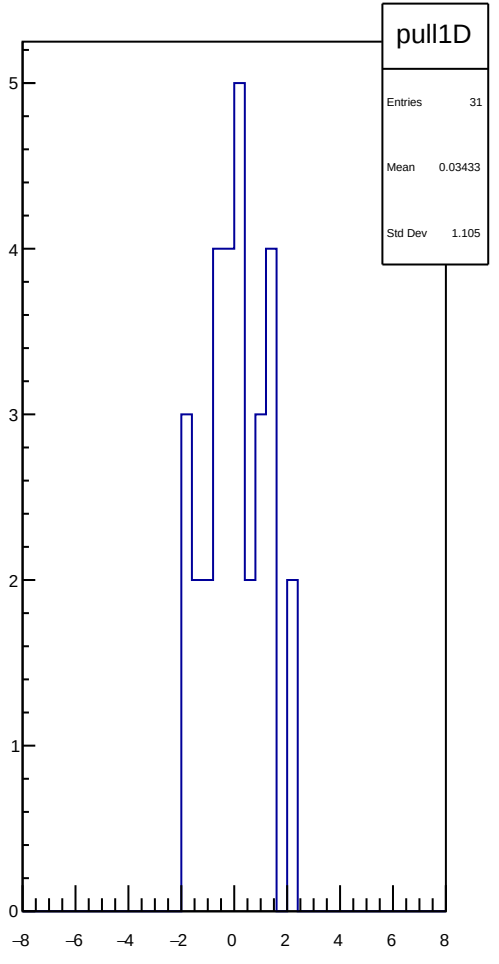

asym_dsl_rms vs run
χ^2 / ndf 81.04 / 30
p0 98.78 ± 0.1268
103
102
101
100
99
98
97
96
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

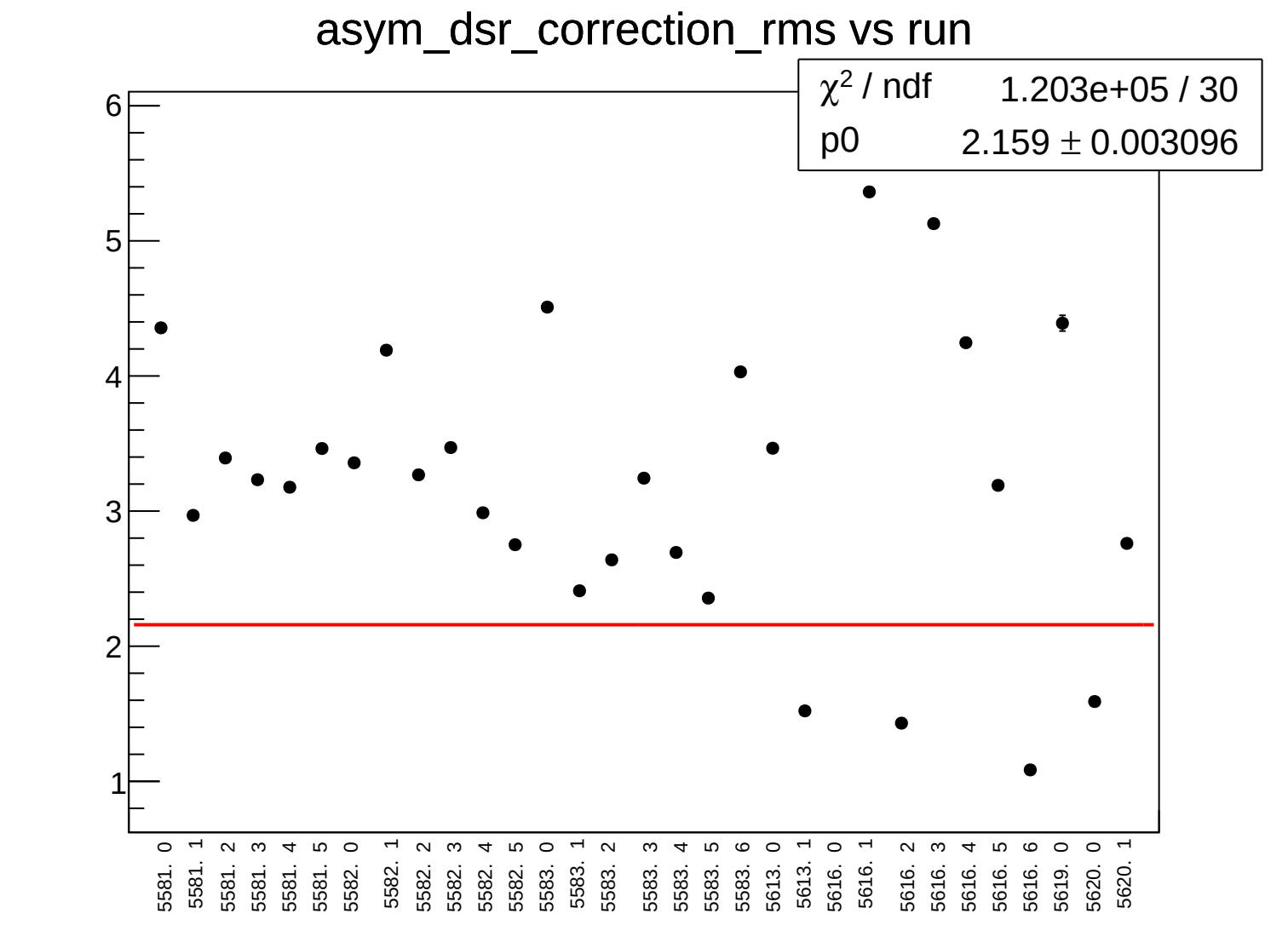

reg_asym_dsr_mean vs run
χ² / ndf 34.02 / 30
p0 59.42 ± 250.8
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.23
Std Dev 19.05
2
1
0
−1
−2

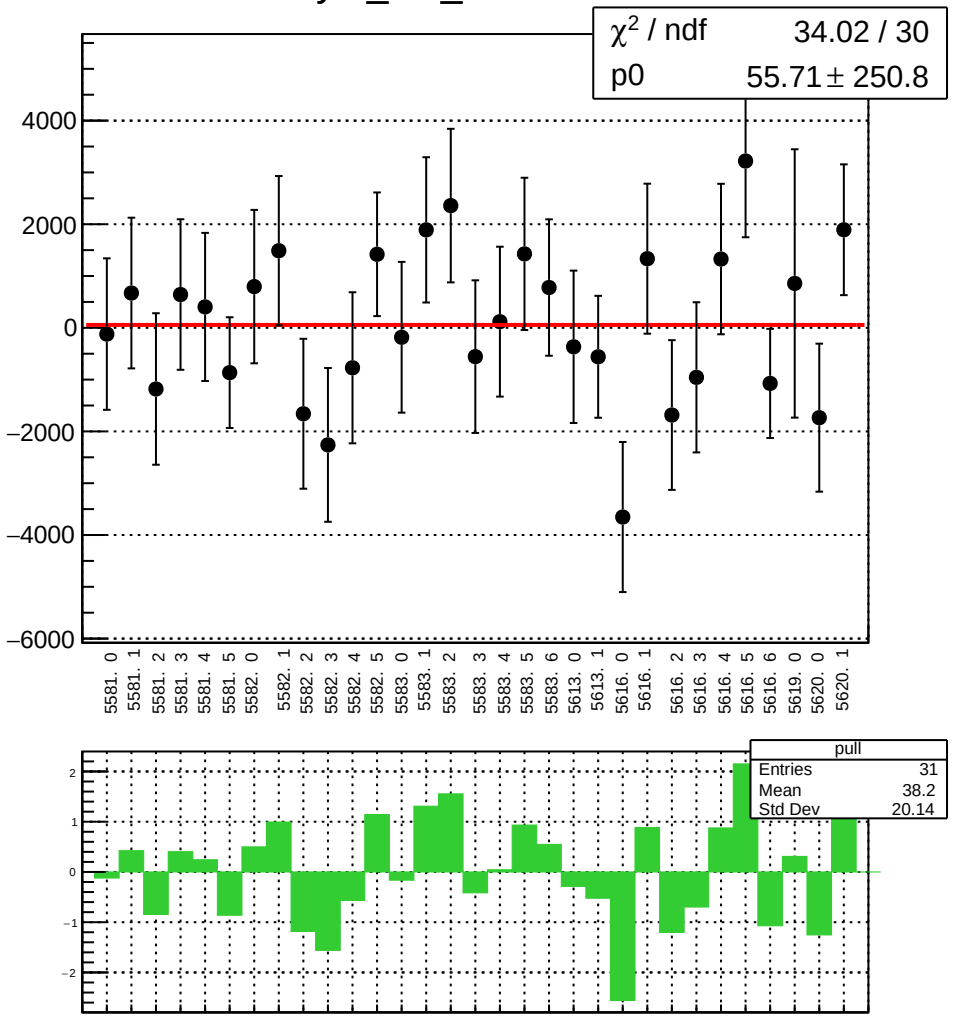

pull1D
Entries 31
Mean 0.01438
Std Dev 1.047
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

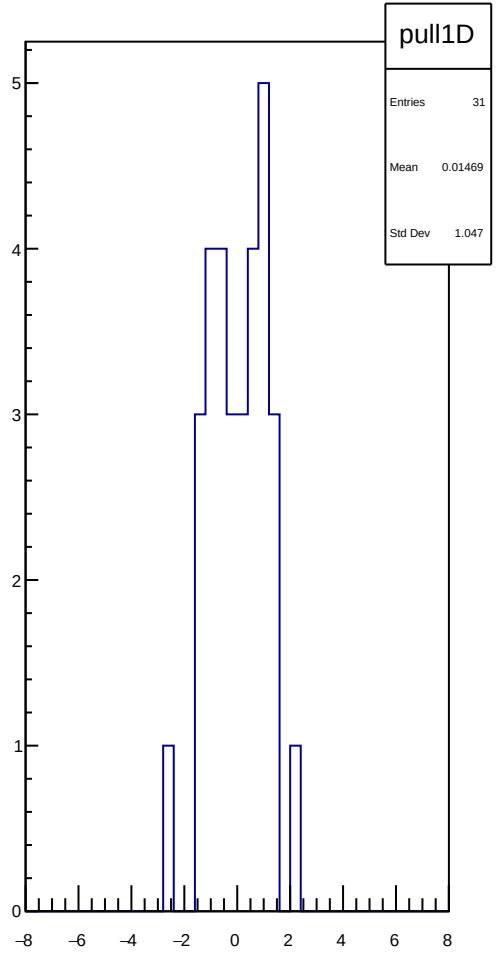

reg_asym_dsr_rms vs run
χ² / ndf 79.08 / 30
p0 138.1 ± 0.1773
142
140
138
136
134
132
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

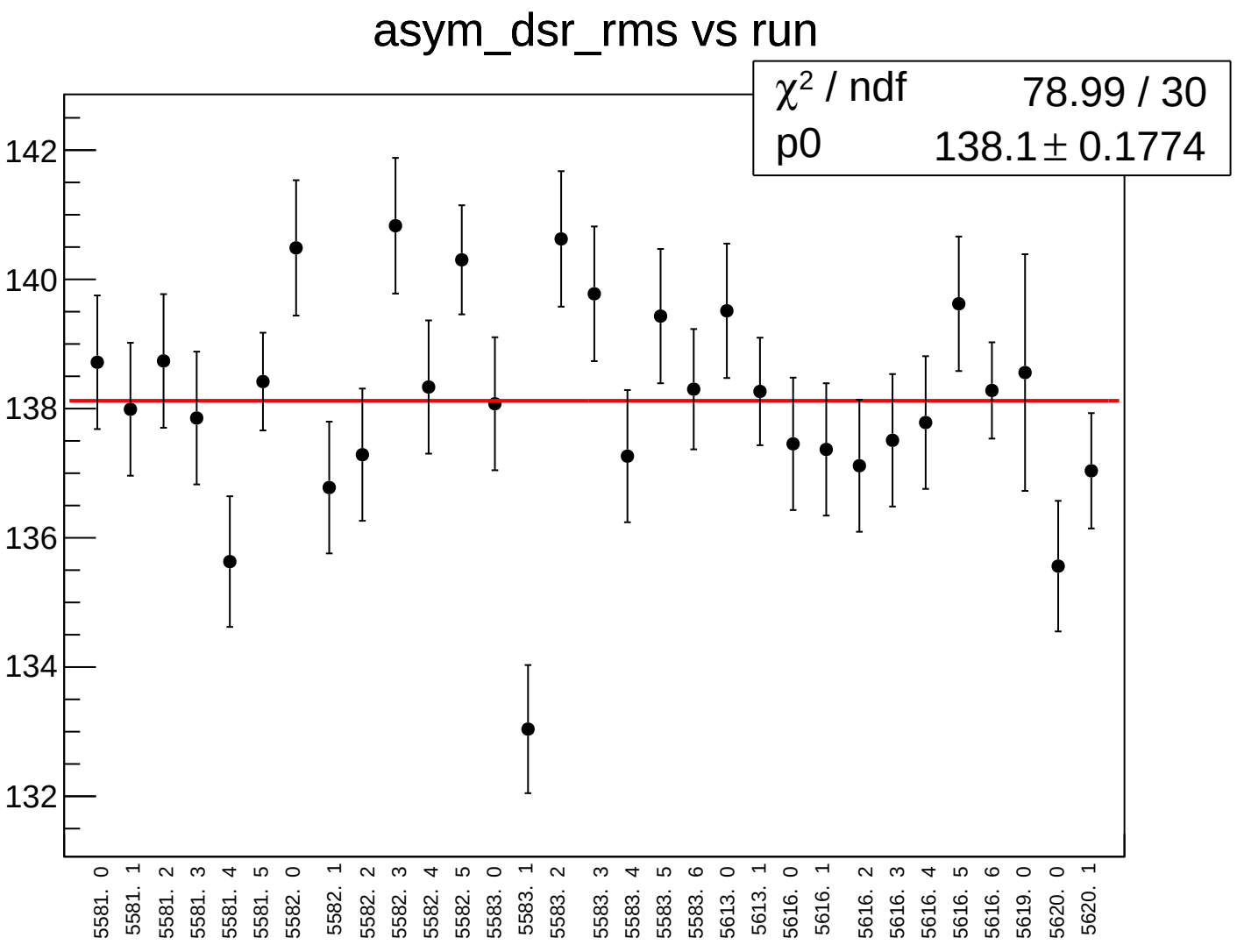

asym_dsr_correction_mean vs run
χ² / ndf 37.91 / 30
p0 1.249 ± 4.378
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −16.72
Std Dev 33.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

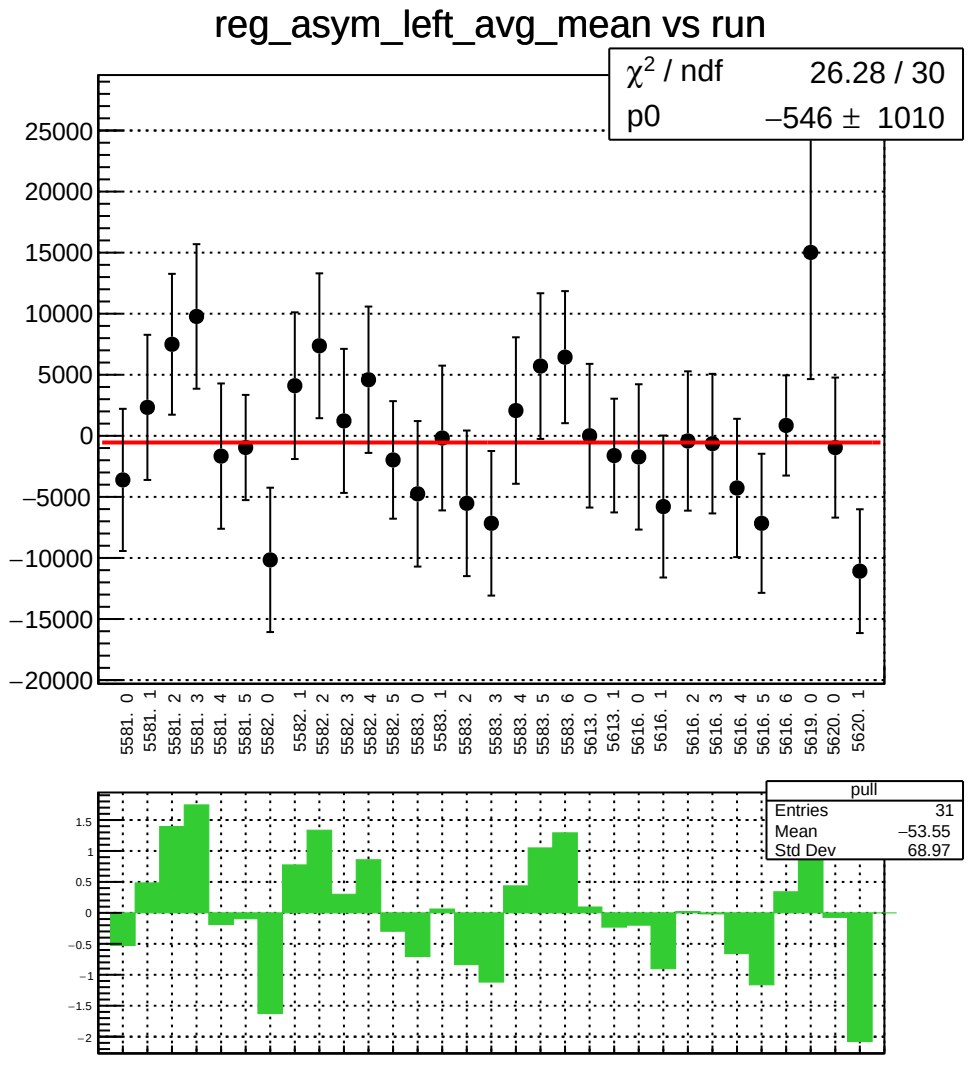

pull1D
Entries 31
Mean 0.03433
Std Dev 1.105
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

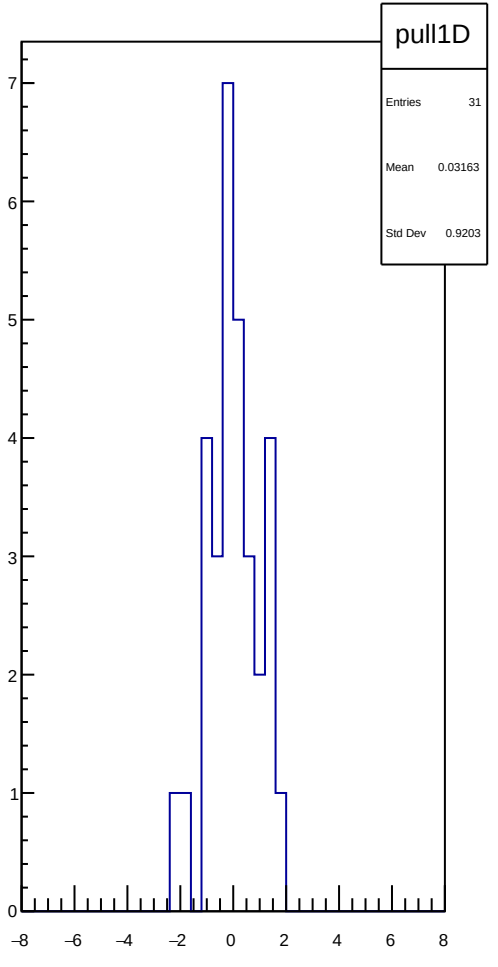

asym_dsr_correction_rms vs run
χ² / ndf 1.203e+05 / 30
p0 2.159 ± 0.003096
6
5
4
3
2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

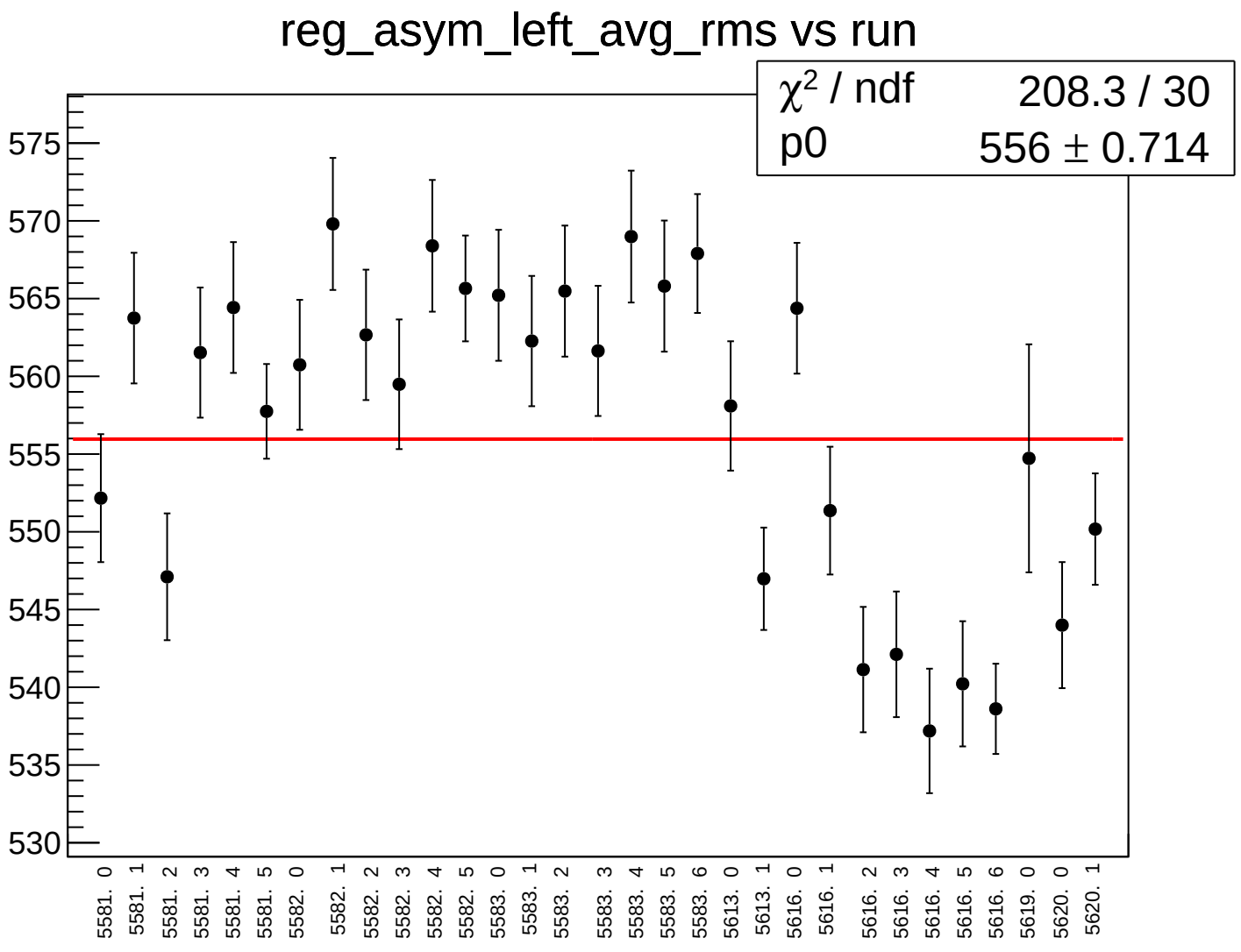

asym_dsr_mean vs run
χ² / ndf 34.02 / 30
p0 55.71 ± 250.8
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.2
Std Dev 20.14
2
1
0
−1
−2

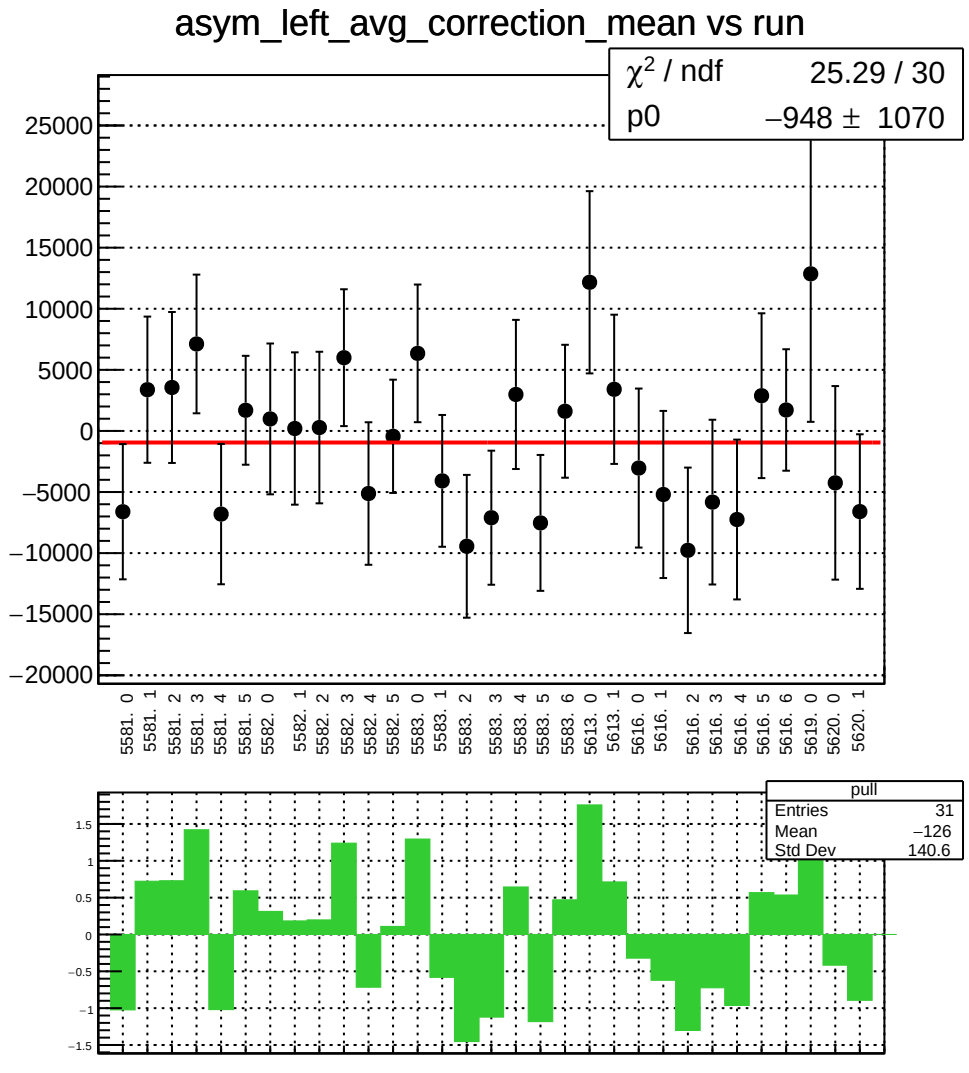

pull1D
Entries 31
Mean 0.01469
Std Dev 1.047
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

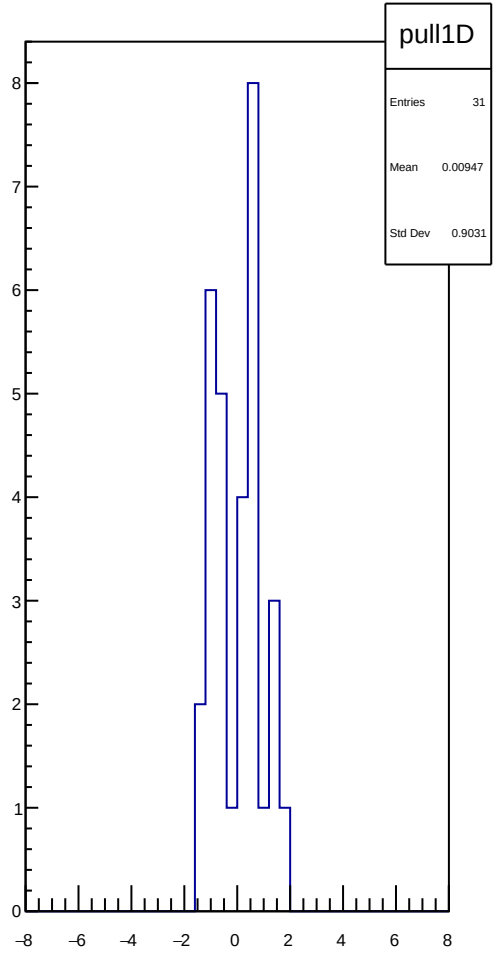

asym_dsr_rms vs run
χ² / ndf 78.99 / 30
p0 138.1 ± 0.1774
142
140
138
136
134
132
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

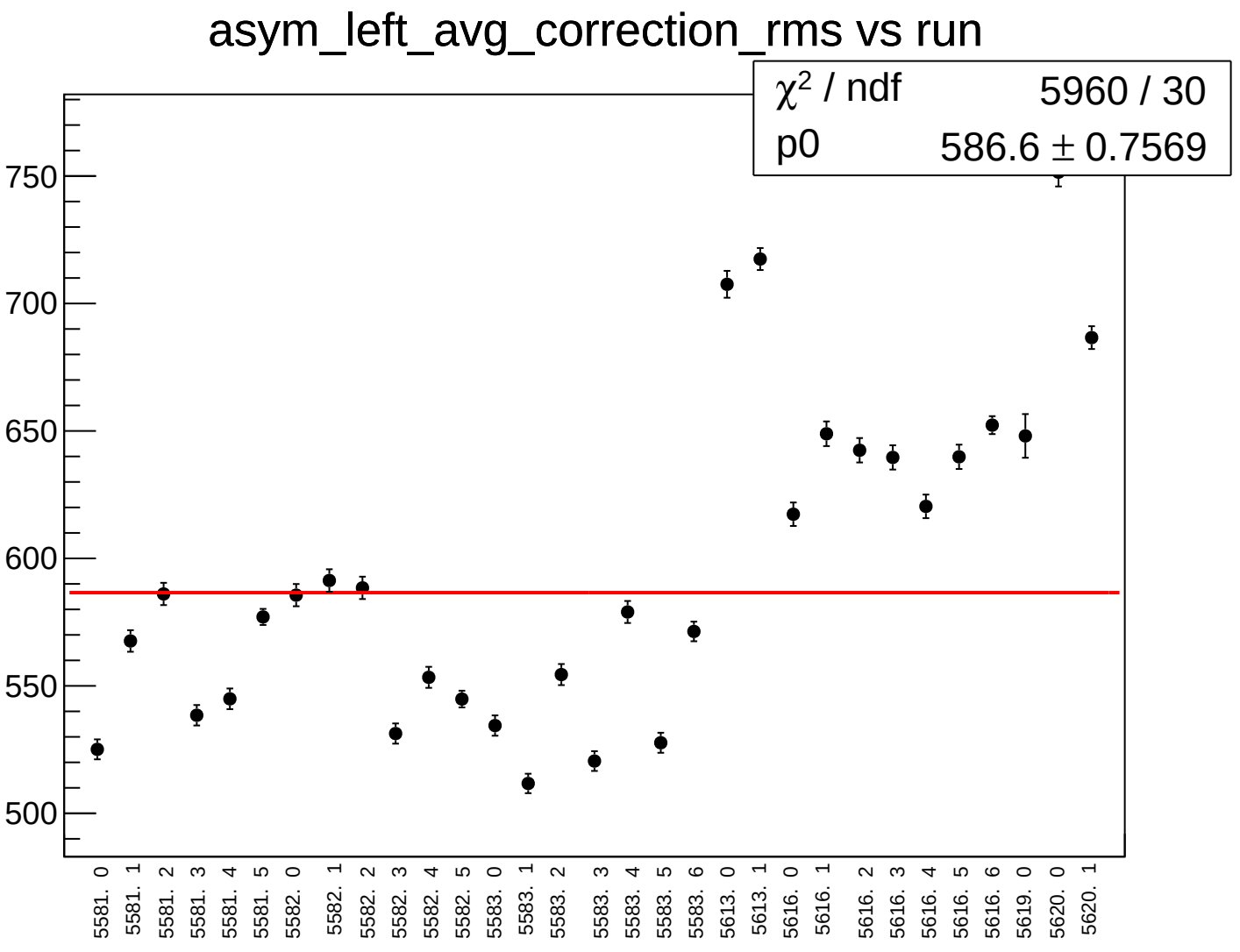

reg_asym_left_avg_mean vs run
χ² / ndf 26.28 / 30
p0 −546 ± 1010
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −53.55
Std Dev 68.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2

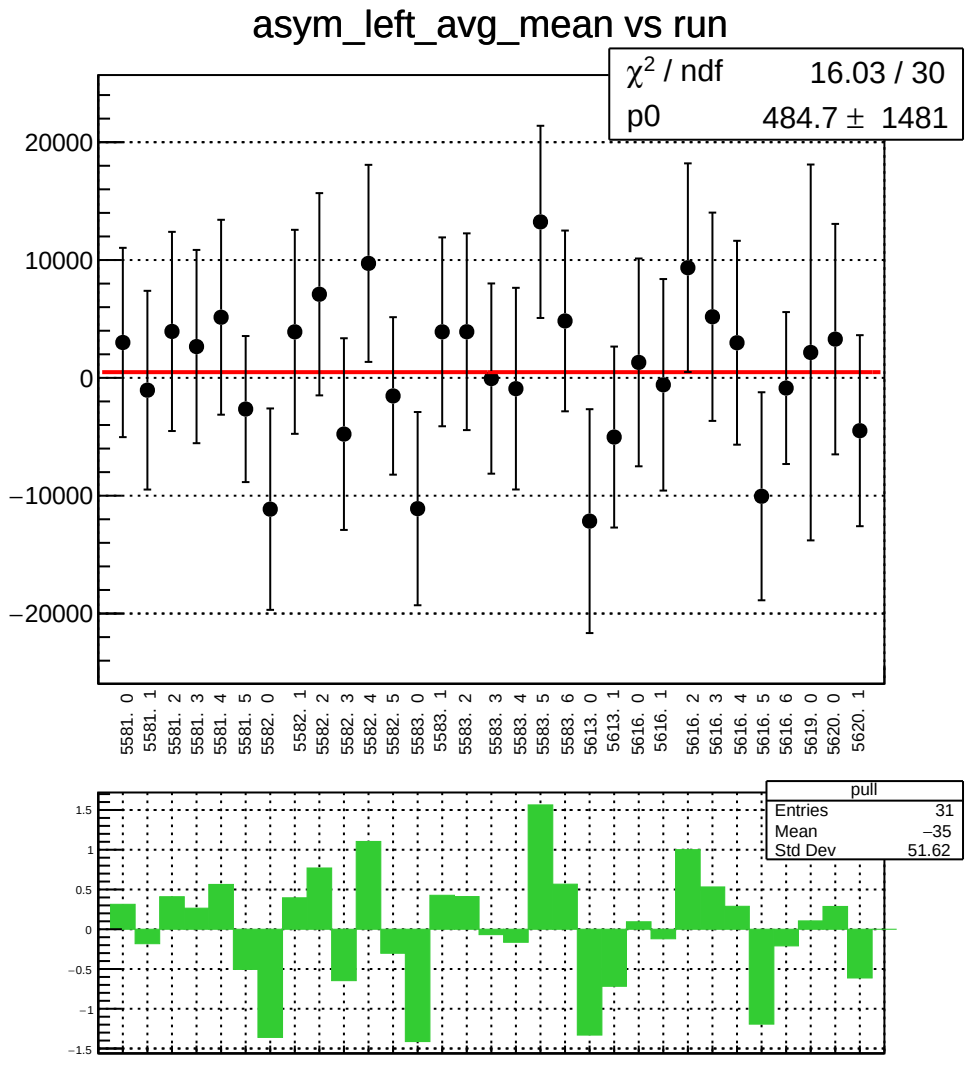

pull1D
Entries 31
Mean 0.03163
Std Dev 0.9203
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

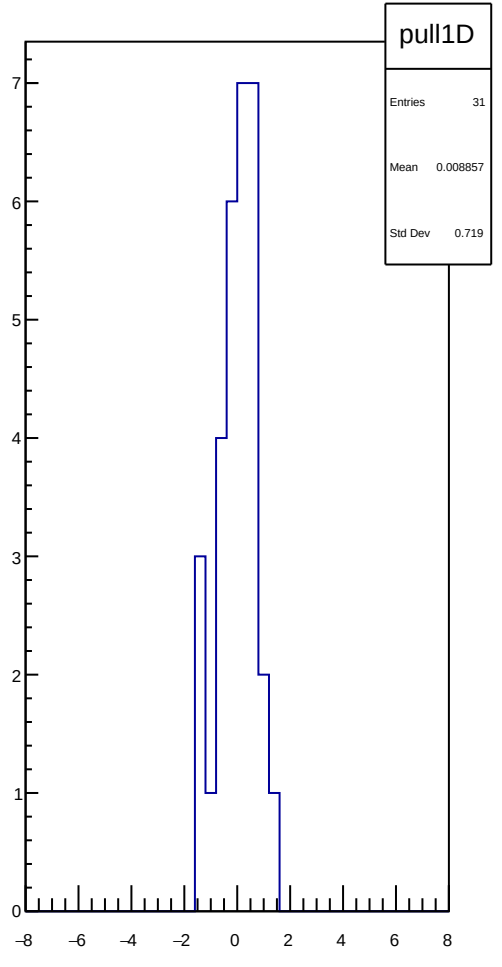

reg_asym_left_avg_rms vs run
χ^2 / ndf 208.3 / 30
p0 556 ± 0.714
575
570
565
560
555
550
545
540
535
530
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

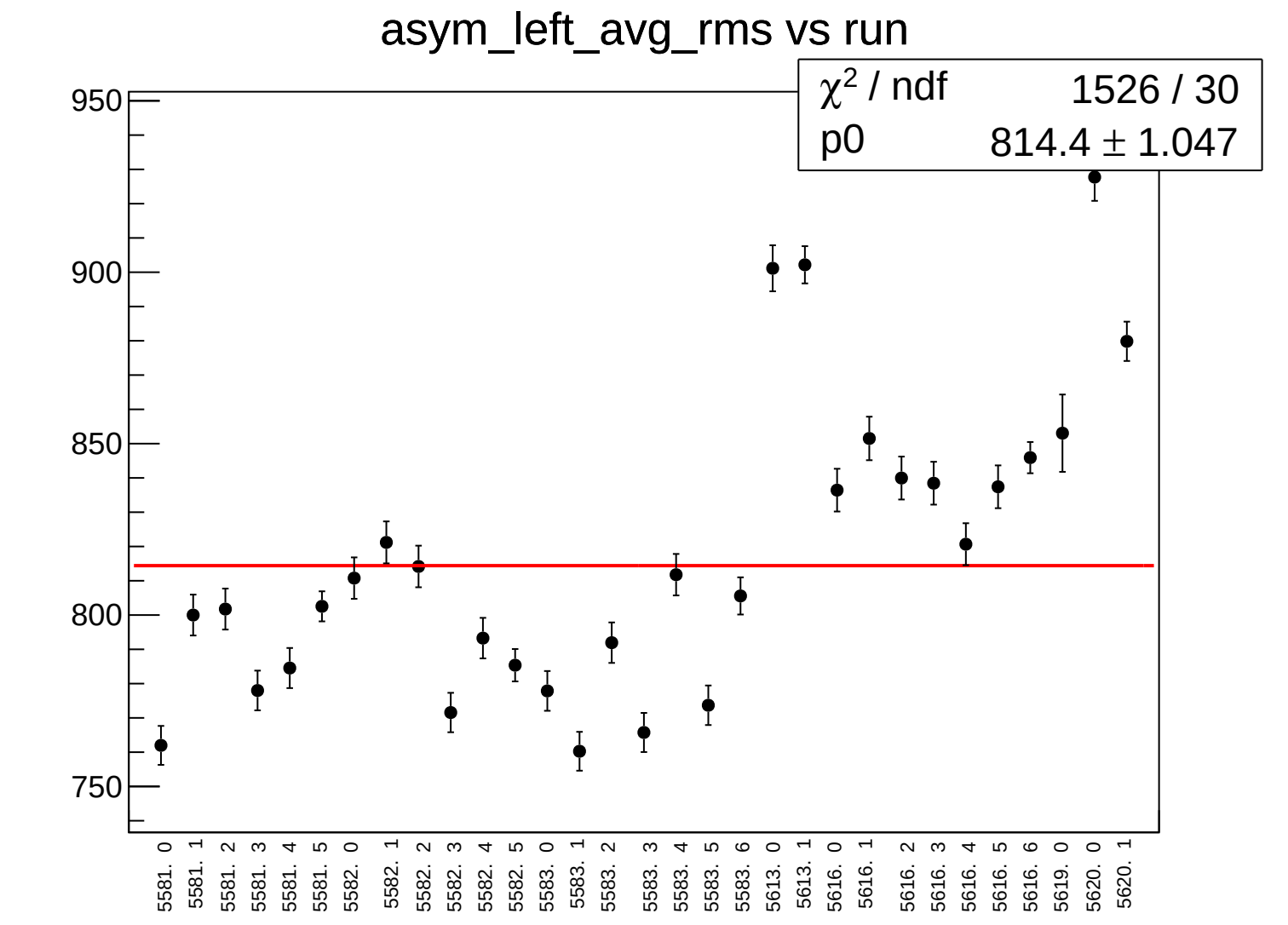

asym_left_avg_correction_mean vs run
χ² / ndf 25.29 / 30
p0 −948 ± 1070
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −126
Std Dev 140.6
1.5
1
0.5
0
−0.5
−1
−1.5

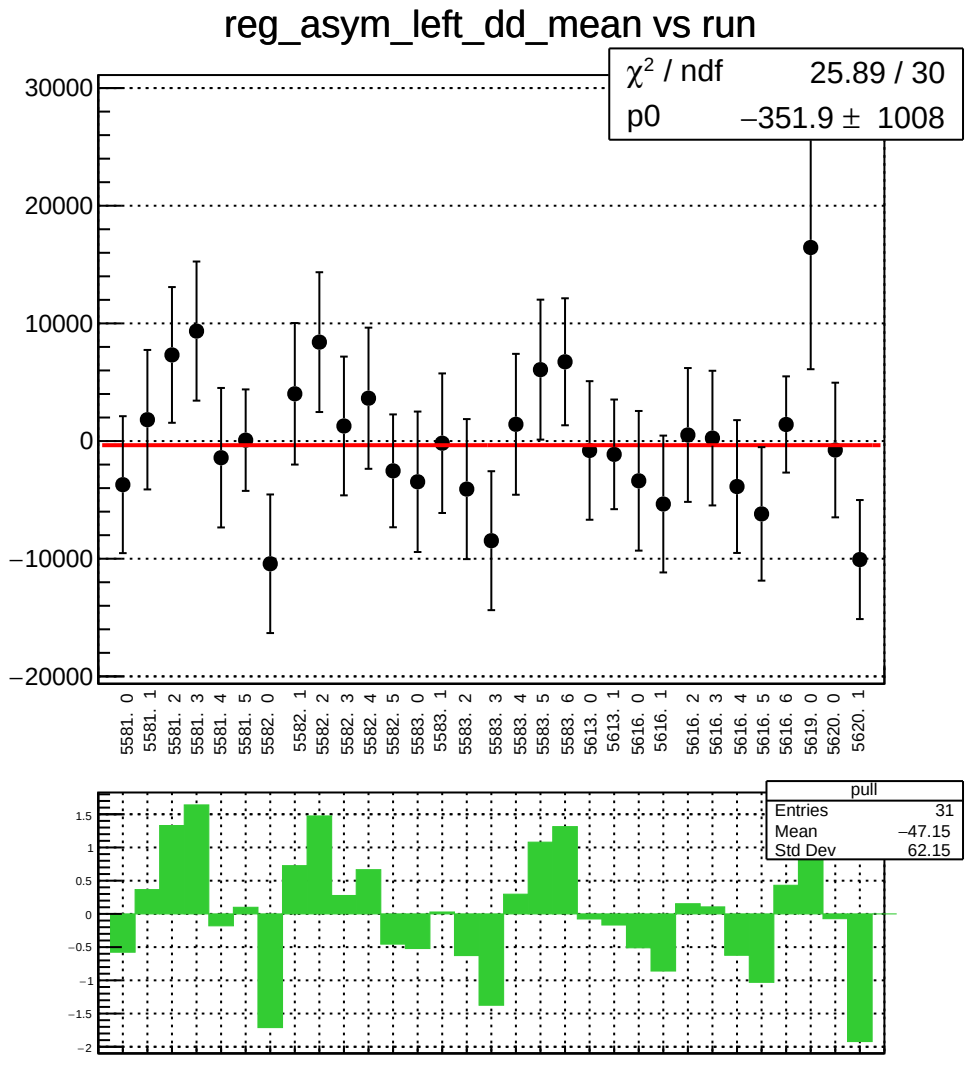

pull1D
Entries 31
Mean 0.00947
Std Dev 0.9031
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

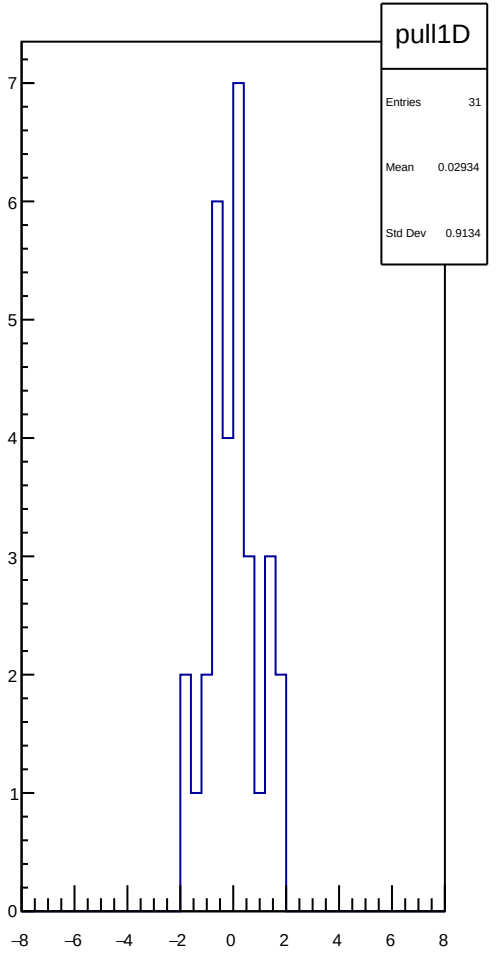

asym_left_avg_correction_rms vs run
χ² / ndf 5960 / 30
p0 586.6 ± 0.7569
750
700
650
600
550
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

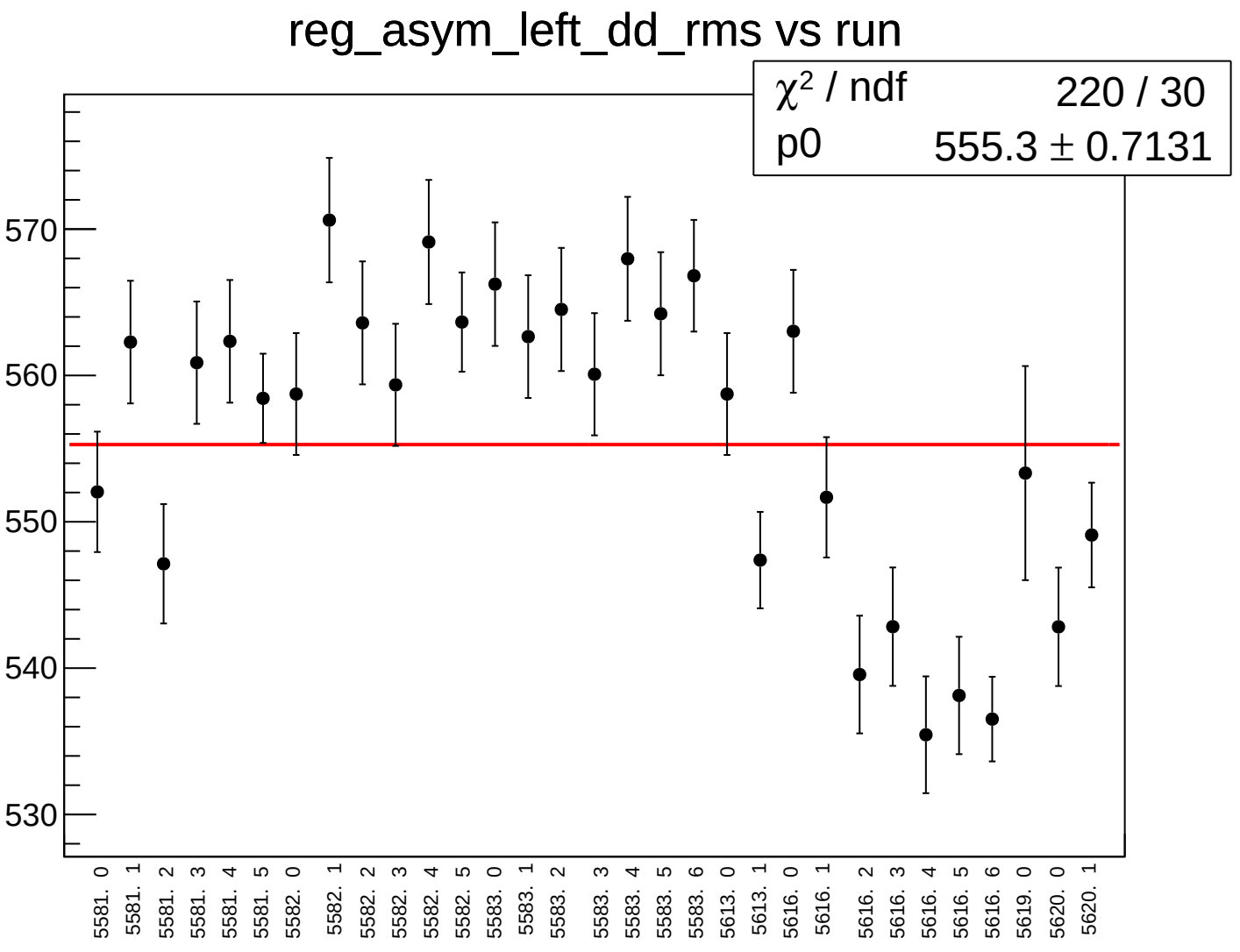

asym_left_avg_mean vs run
χ² / ndf 16.03 / 30
p0 484.7 ± 1481
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −35
Std Dev 51.62
1.5
1
0.5
0
−0.5
−1
−1.5

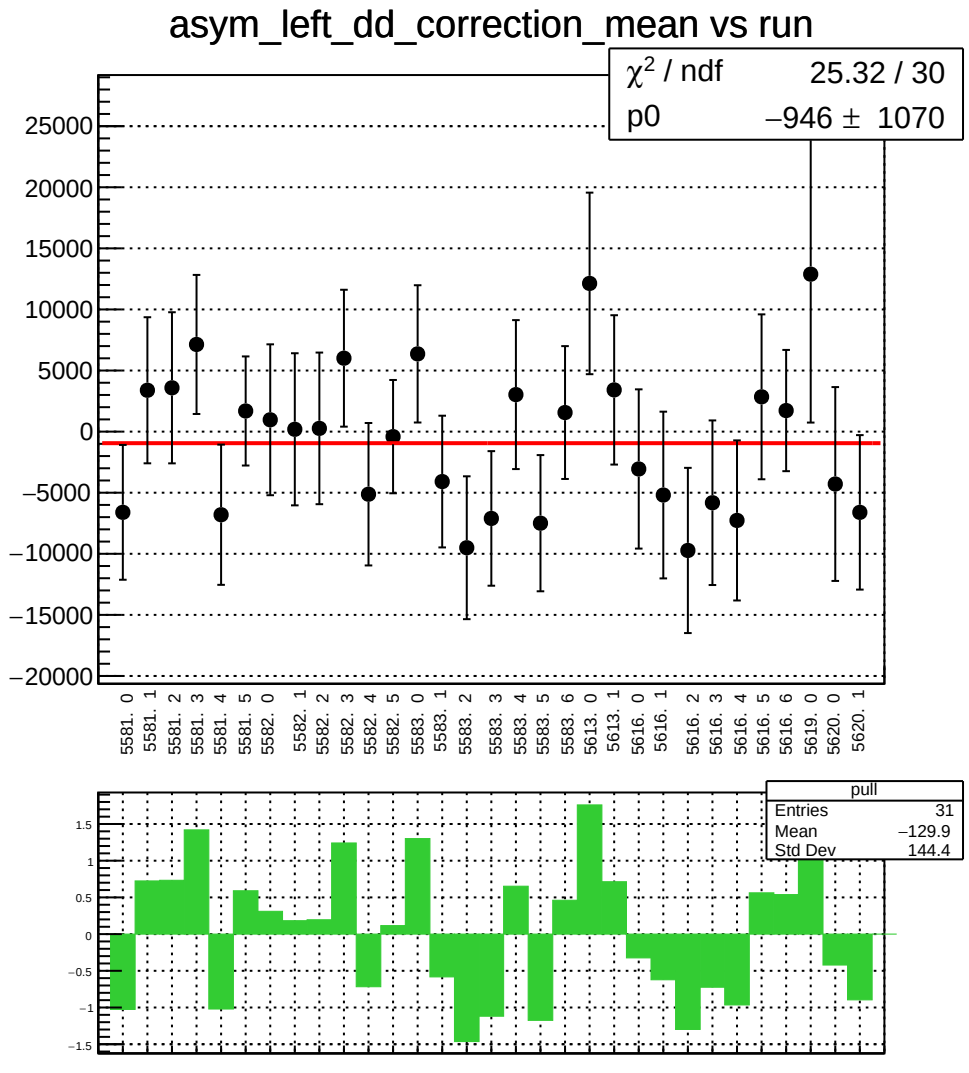

pull1D
Entries 31
Mean 0.008857
Std Dev 0.719
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

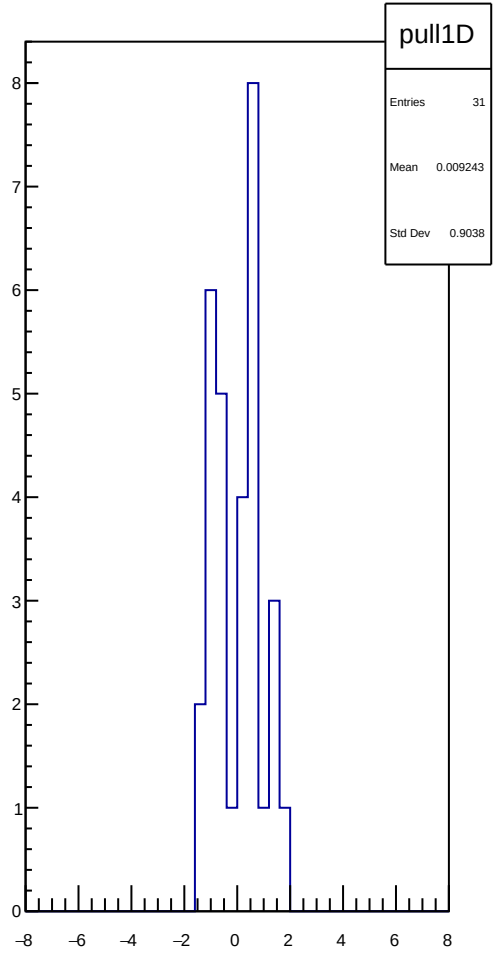

asym_left_avg_rms vs run
χ² / ndf 1526 / 30
p0 814.4 ± 1.047
950
900
850
800
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

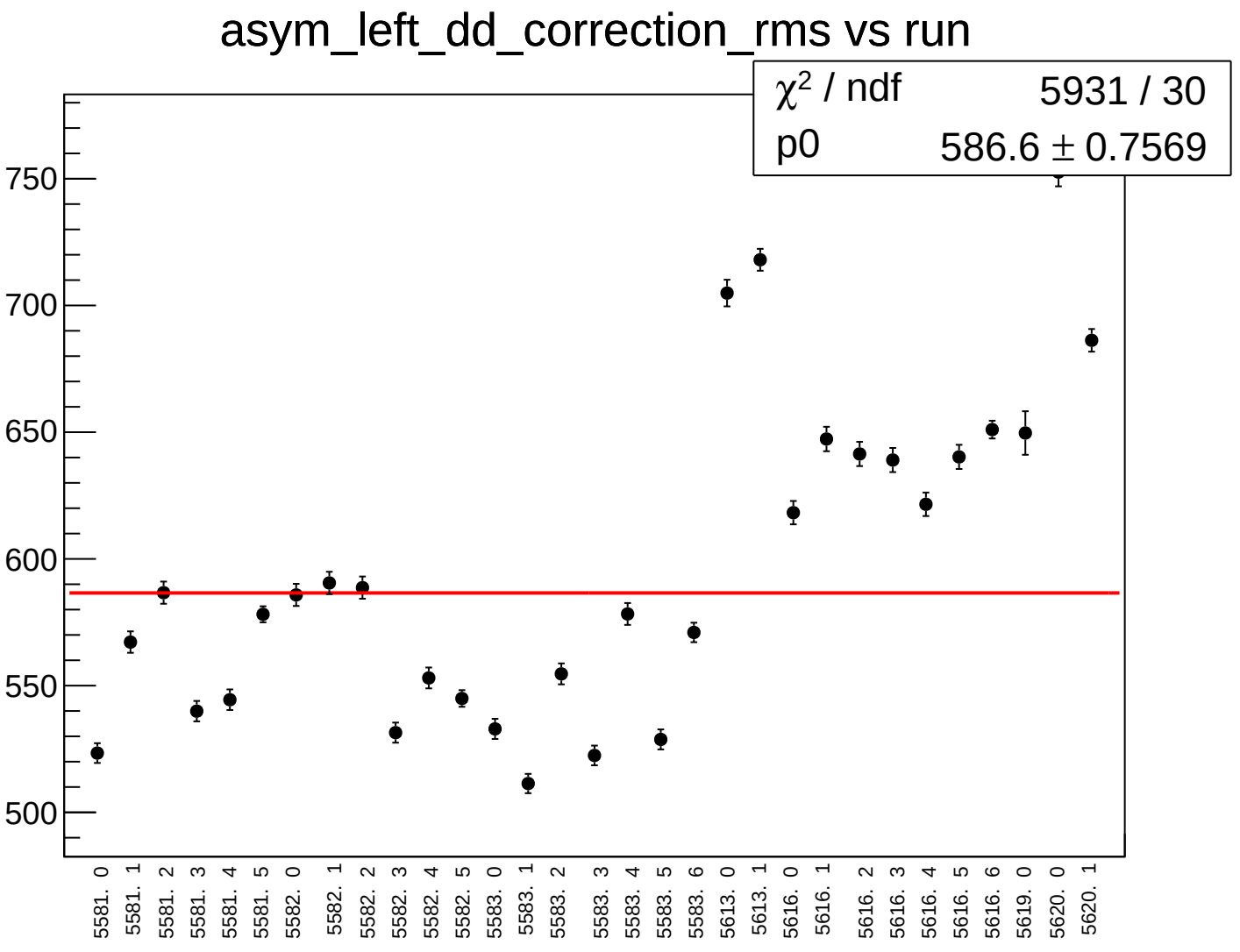

reg_asym_left_dd_mean vs run
χ² / ndf 25.89 / 30
p0 −351.9 ± 1008
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −47.15
Std Dev 62.15
1.5
1
0.5
0
−0.5
−1
−1.5
−2

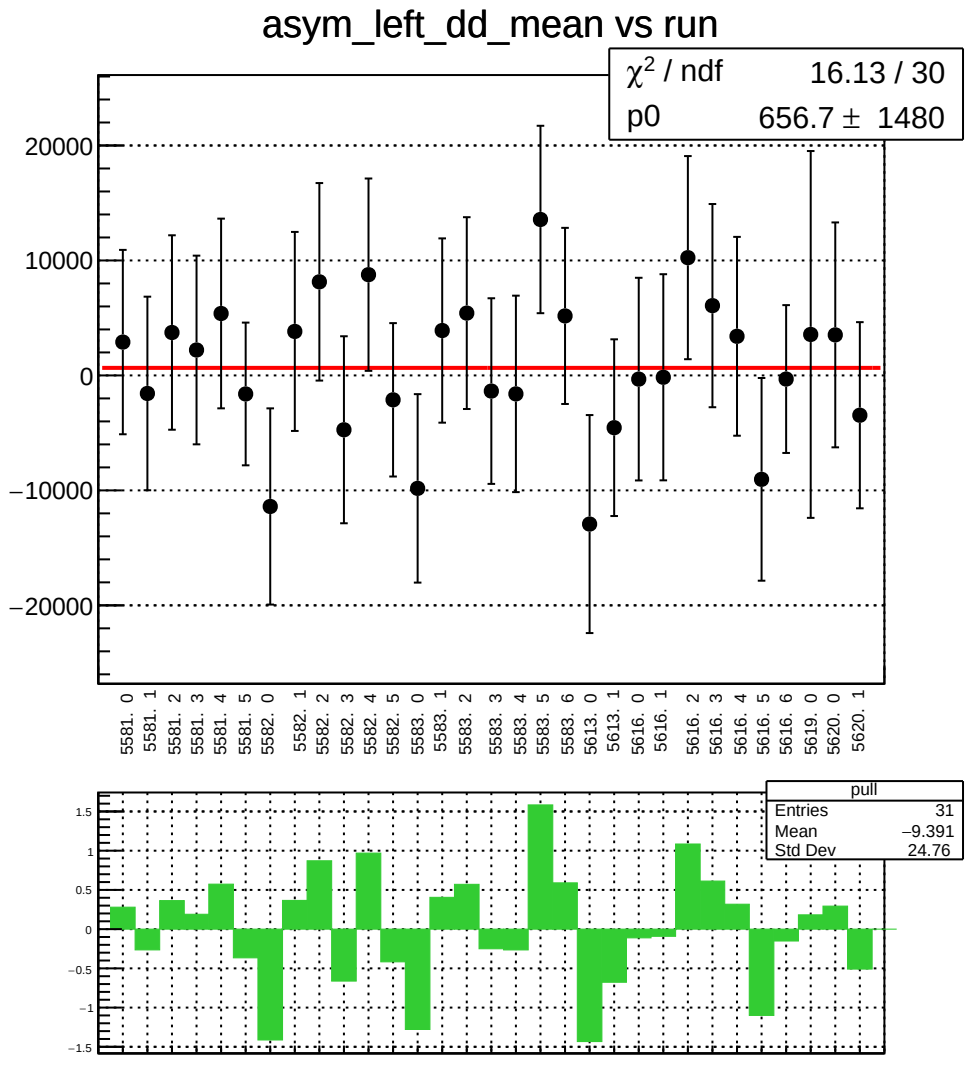

pull1D
Entries 31
Mean 0.02934
Std Dev 0.9134
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

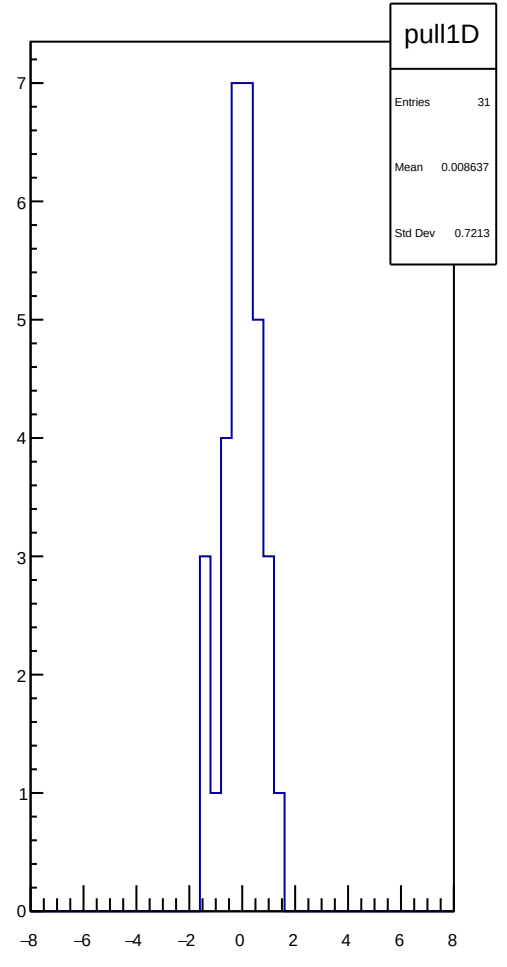

reg_asym_left_dd_rms vs run
χ² / ndf 220 / 30
p0 555.3 ± 0.7131
570
560
550
540
530
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

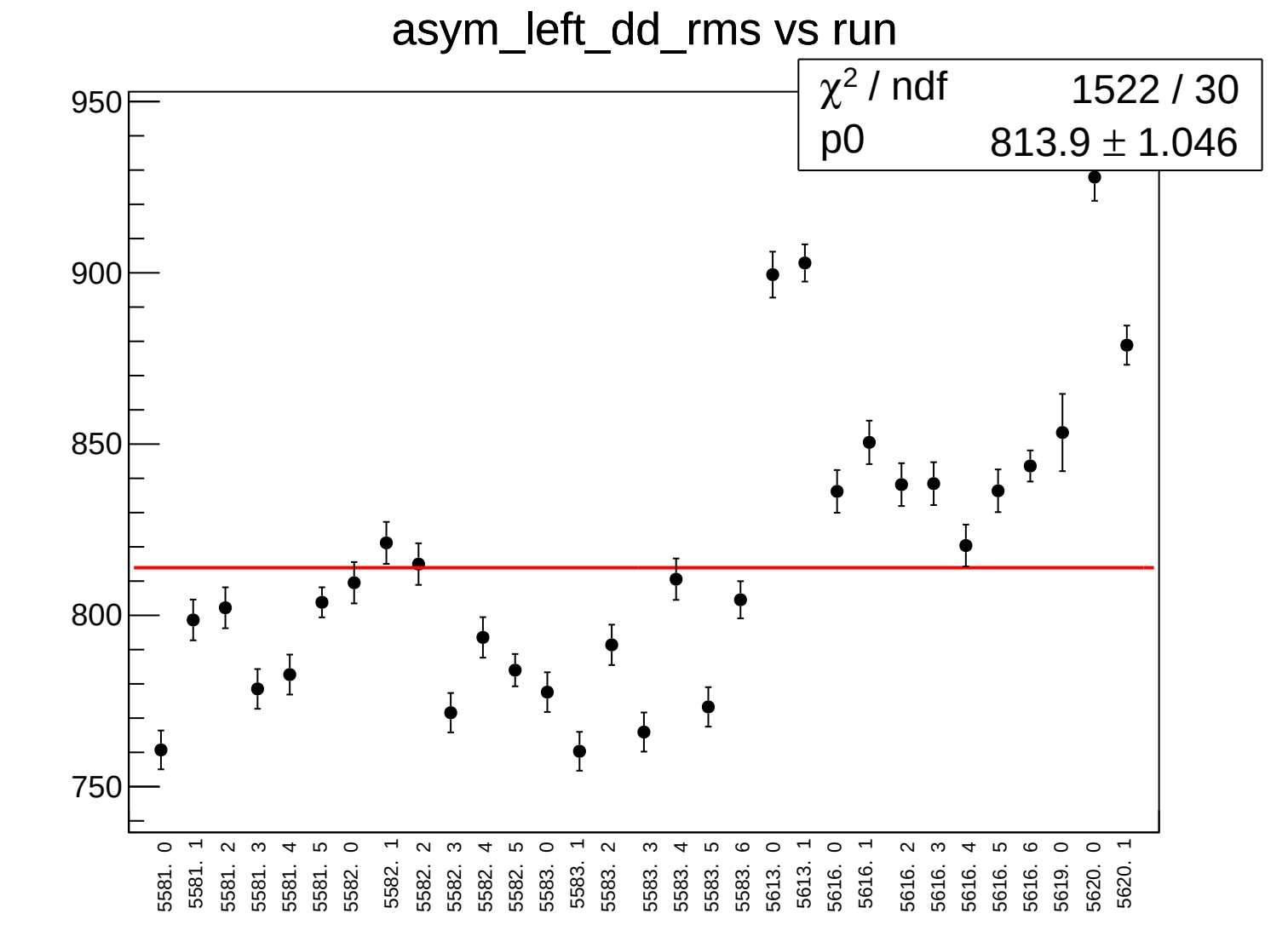

asym_left_dd_correction_mean vs run
χ² / ndf 25.32 / 30
p0 −946 ± 1070
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −129.9
Std Dev 144.4
1.5
1
0.5
0
−0.5
−1
−1.5

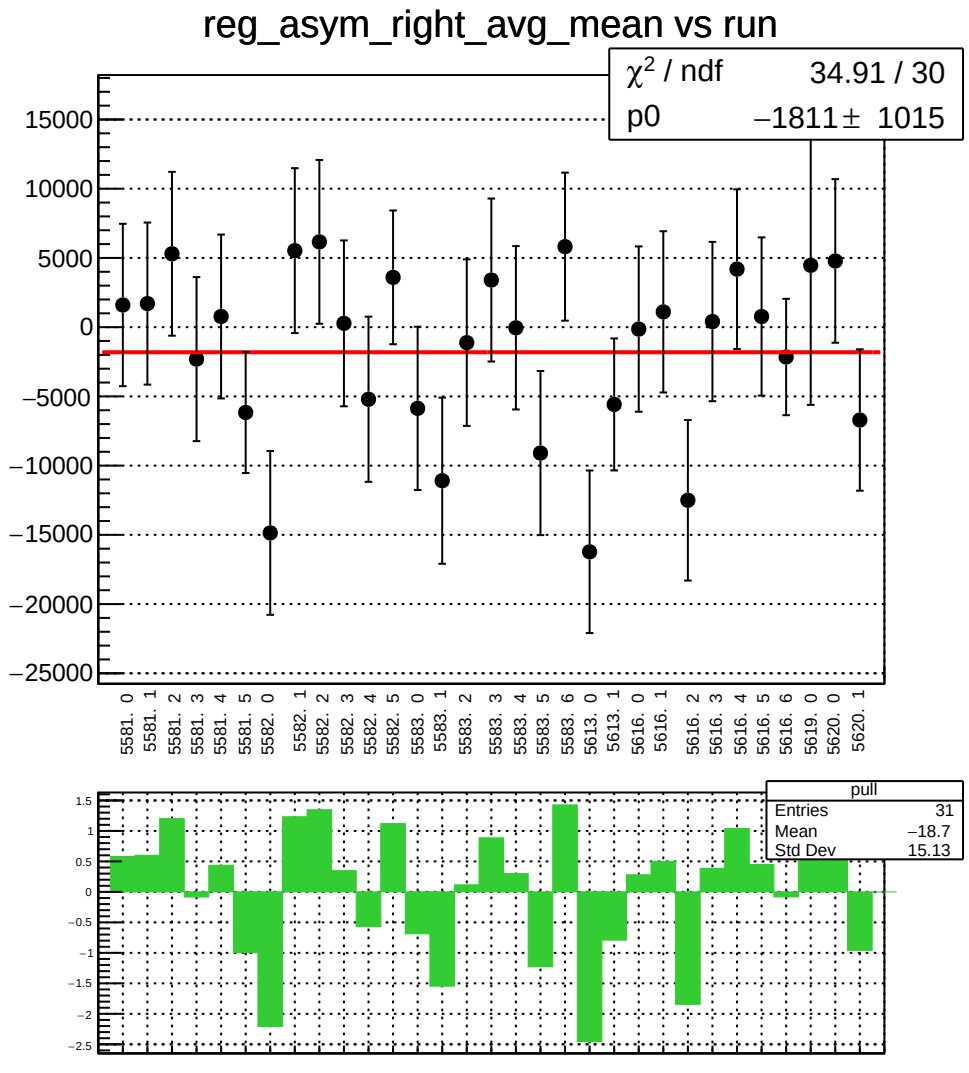

pull1D
Entries 31
Mean 0.009243
Std Dev 0.9038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

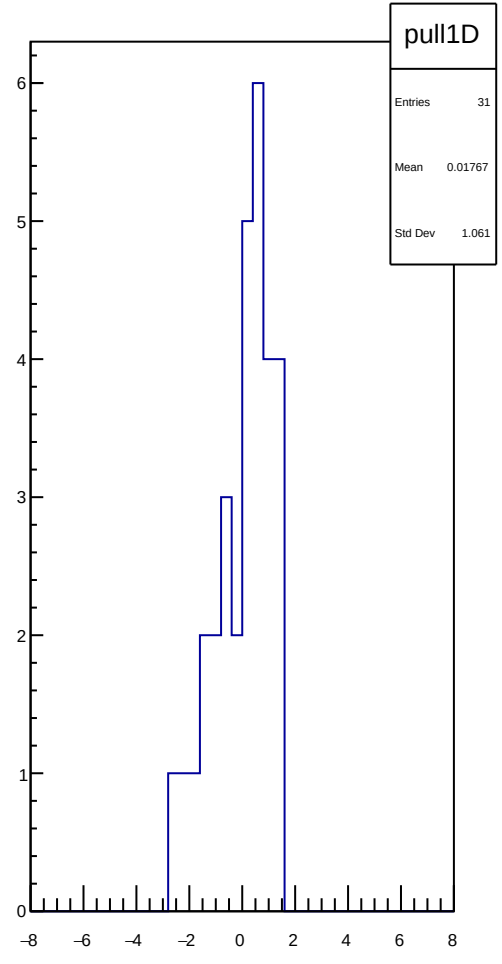

asym_left_dd_correction_rms vs run
χ² / ndf 5931 / 30
p0 586.6 ± 0.7569
750
700
650
600
550
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

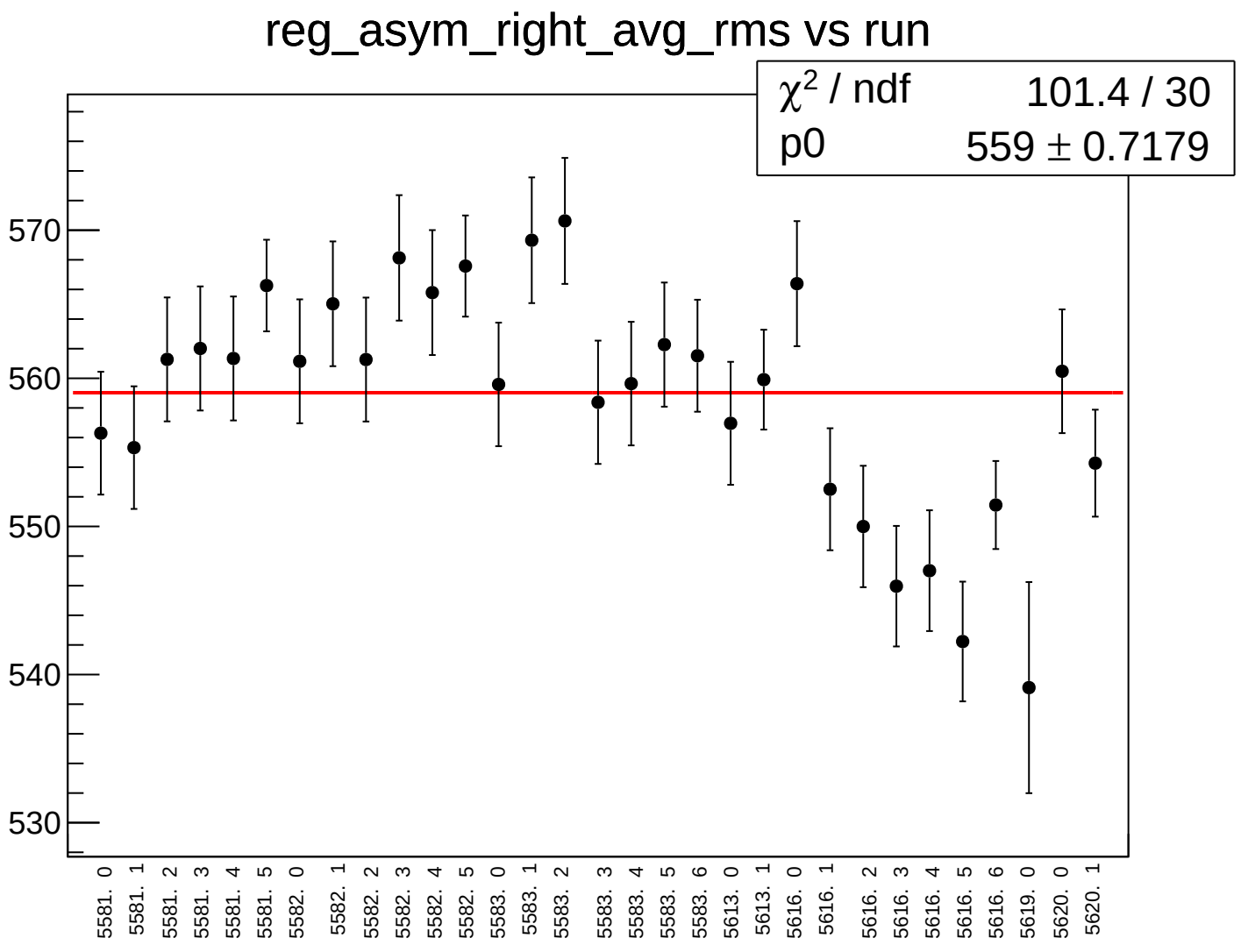

asym_left_dd_mean vs run
χ² / ndf 16.13 / 30
p0 656.7 ± 1480
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −9.391
Std Dev 24.76
1.5
1
0.5
0
−0.5
−1
−1.5

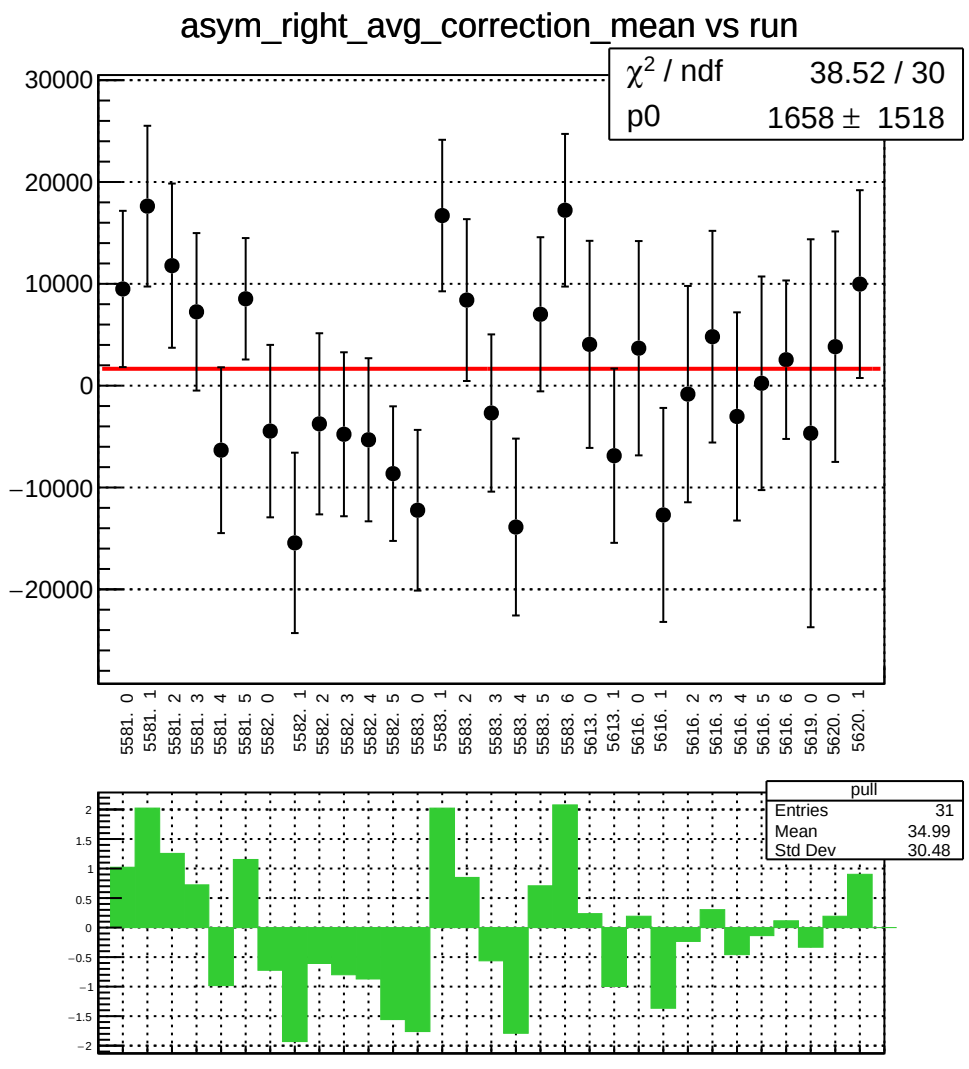

pull1D
Entries 31
Mean 0.008637
Std Dev 0.7213
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

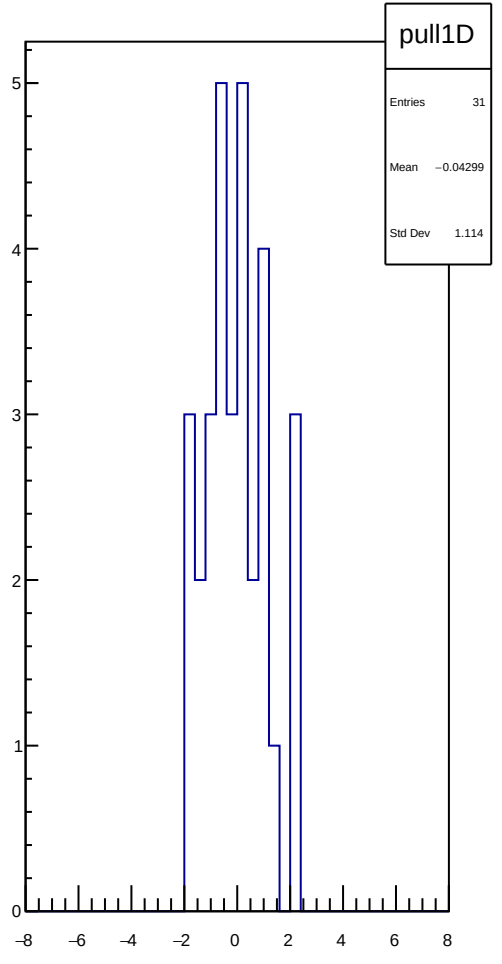

asym_left_dd_rms vs run
χ² / ndf 1522 / 30
p0 813.9 ± 1.046
950
900
850
800
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

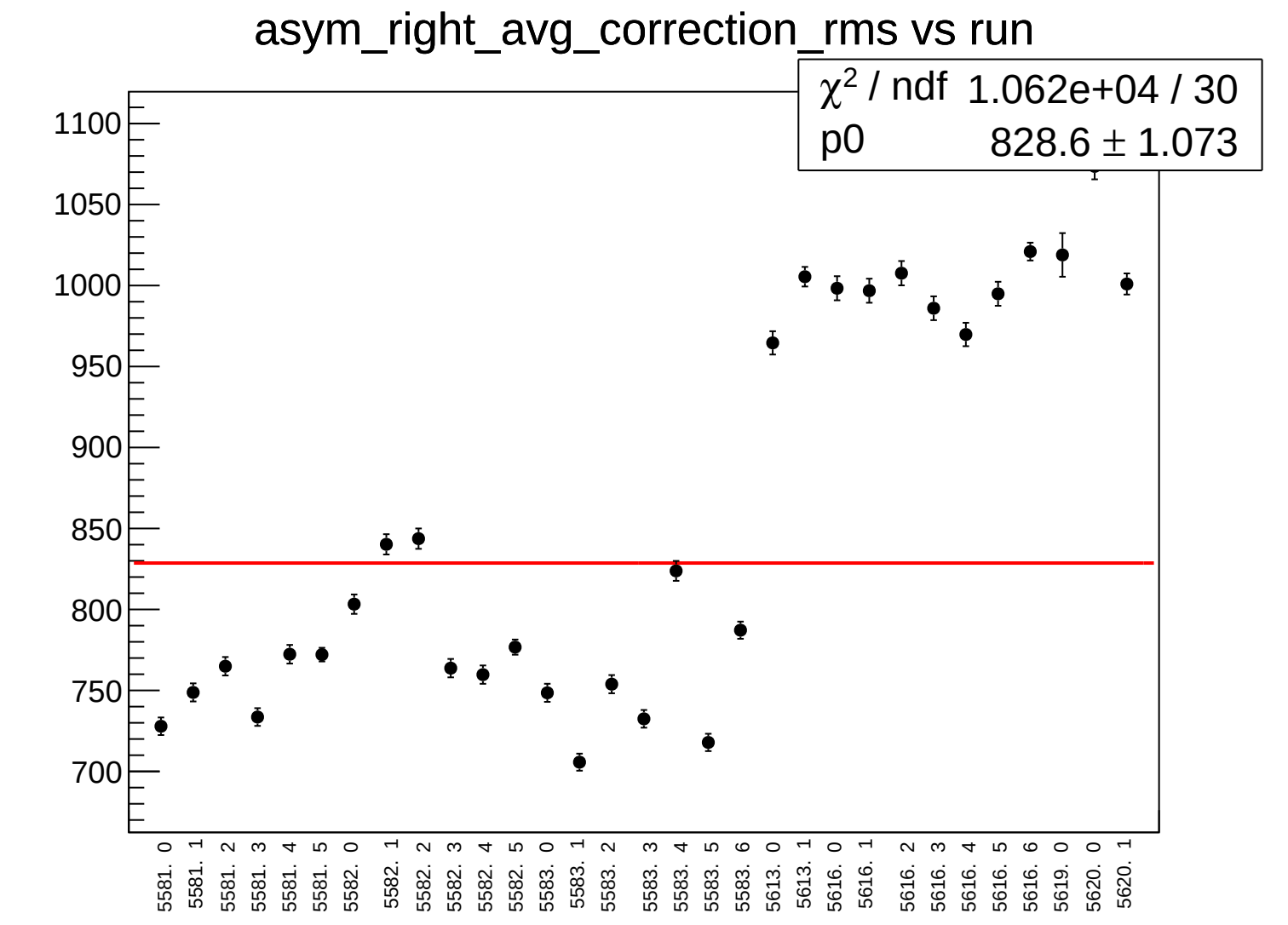

reg_asym_right_avg_mean vs run
χ² / ndf 34.91 / 30
p0 −1811 ± 1015
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −18.7
Std Dev 15.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

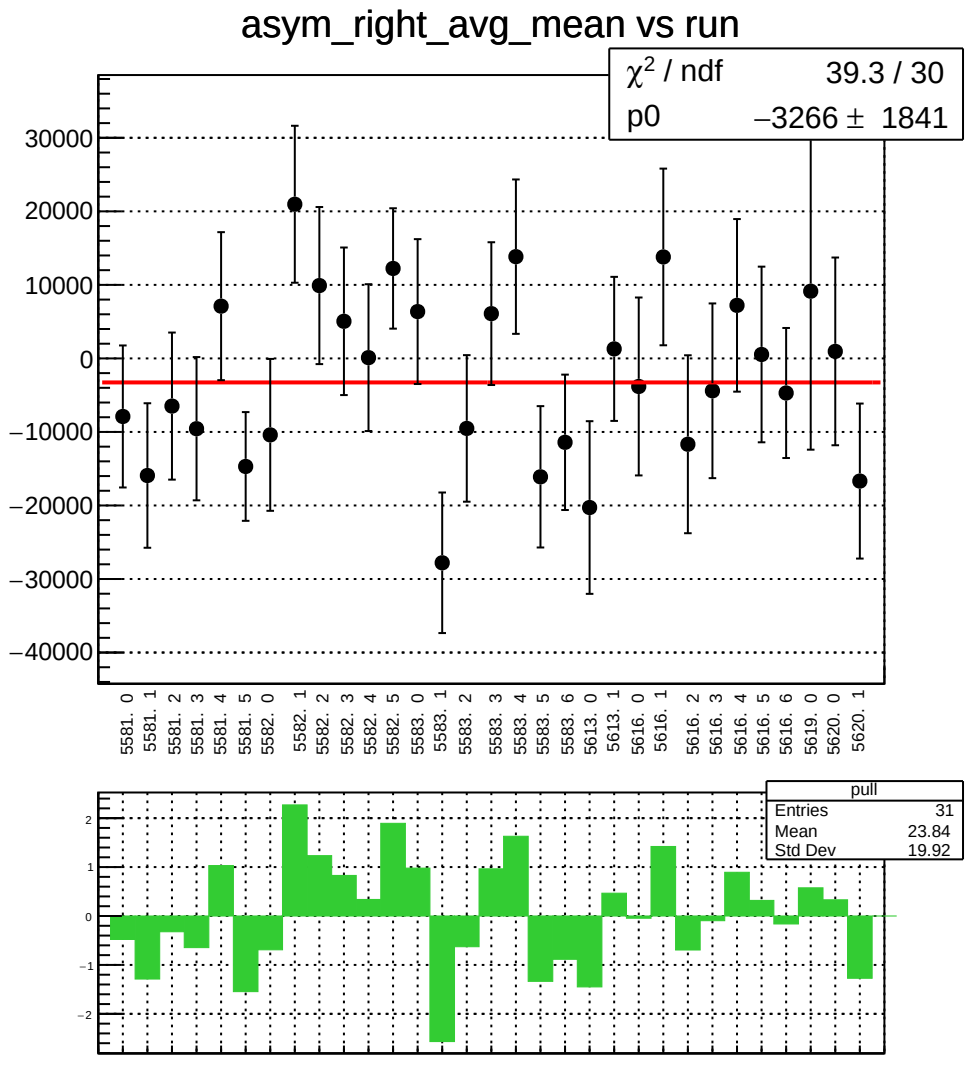

pull1D
Entries 31
Mean 0.01767
Std Dev 1.061
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

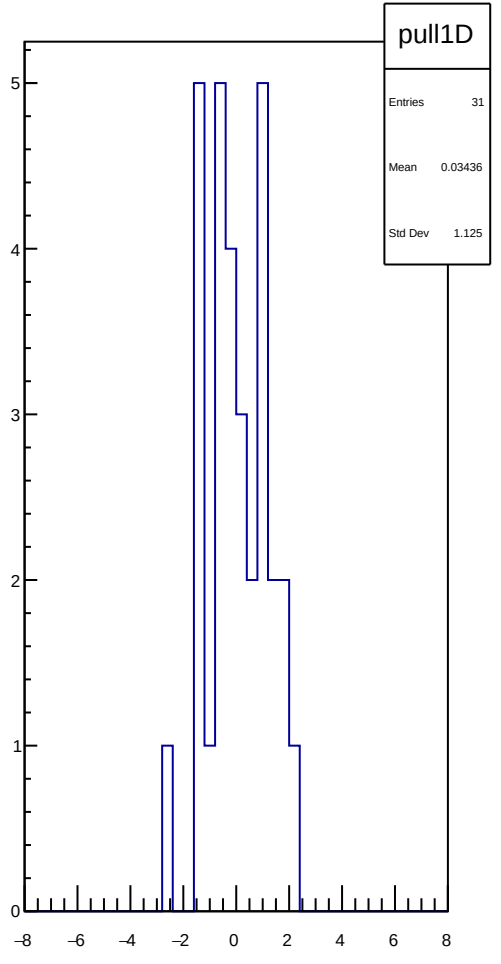

reg_asym_right_avg_rms vs run
χ^2 / ndf 101.4 / 30
p0 559 ± 0.7179
570
560
550
540
530
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

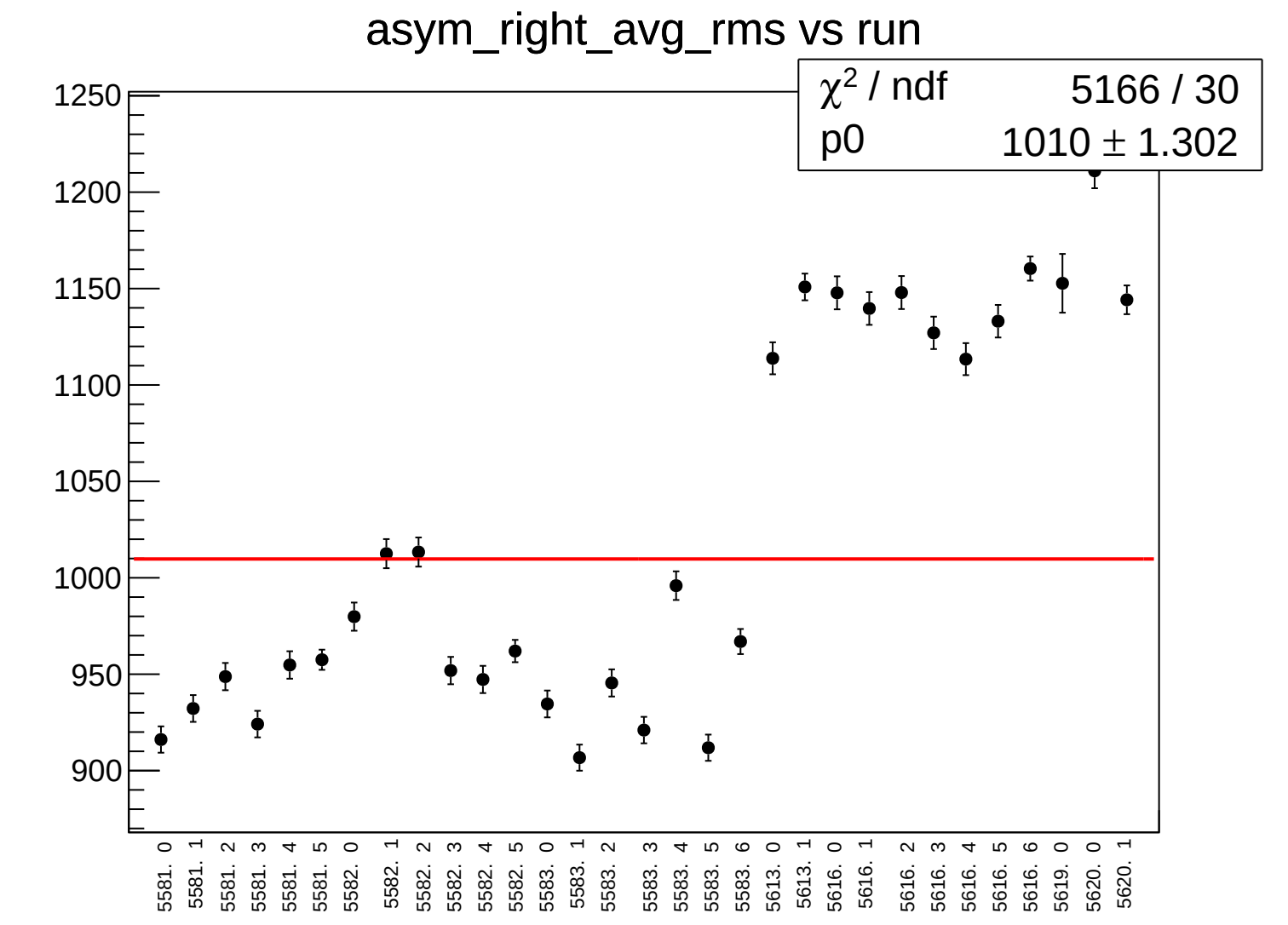

asym_right_avg_correction_mean vs run
χ² / ndf 38.52 / 30
p0 1658 ± 1518
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.99
Std Dev 30.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

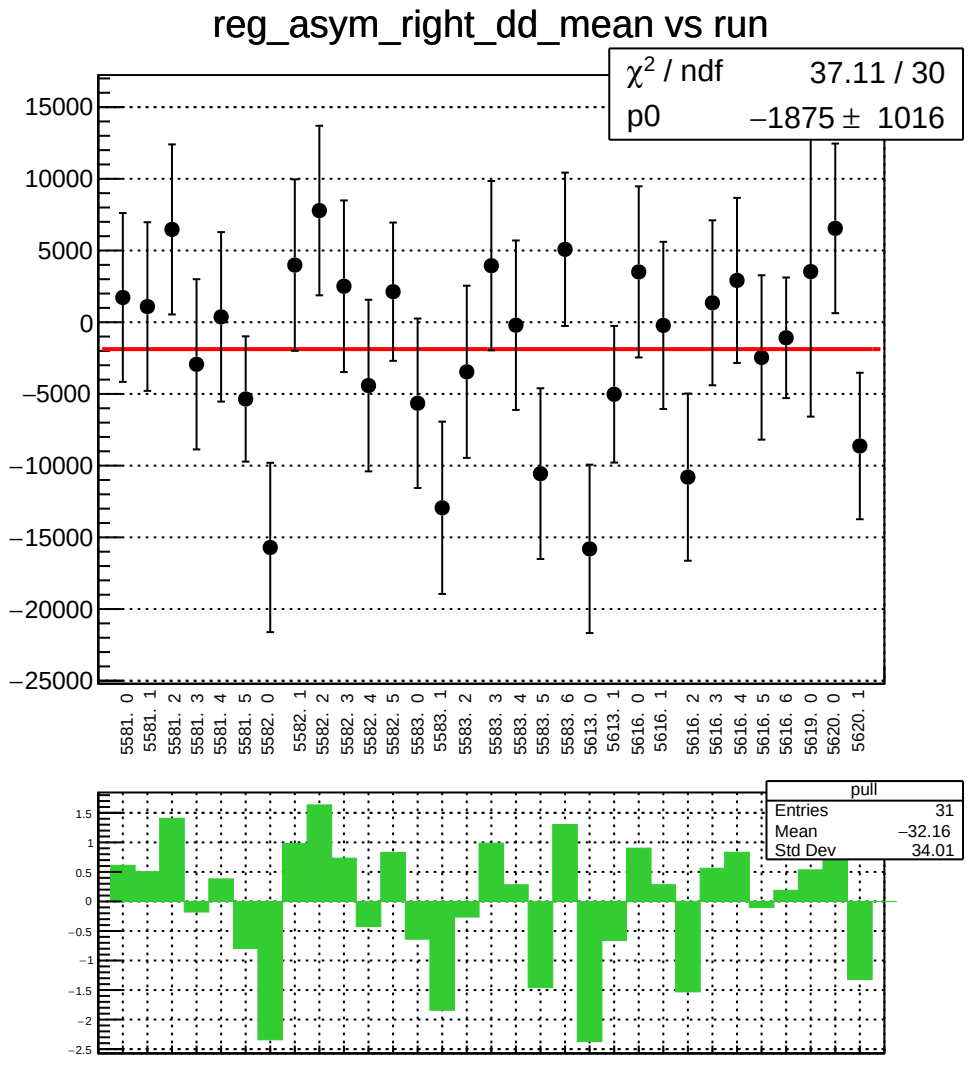

pull1D
Entries 31
Mean −0.04299
Std Dev 1.114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

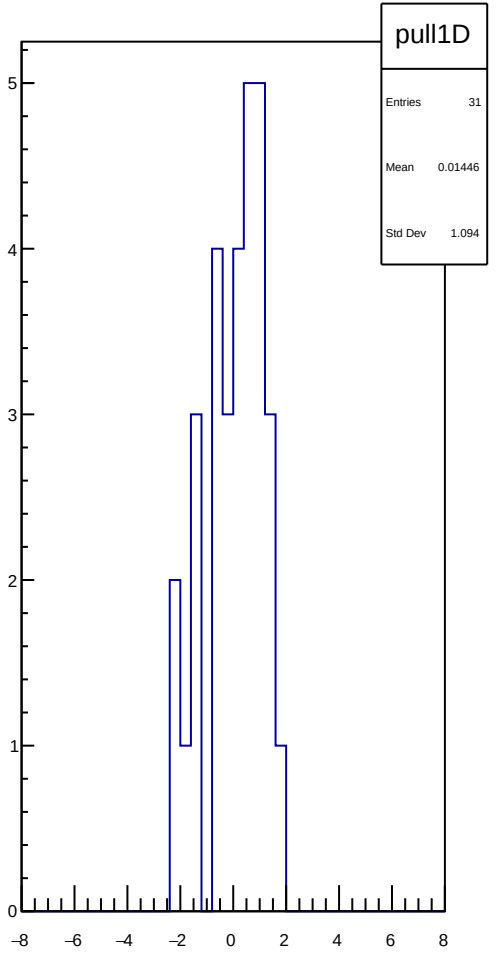

asym_right_avg_correction_rms vs run
χ² / ndf 1.062e+04 / 30
p0 828.6 ± 1.073
1100
1050
1000
950
900
850
800
750
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

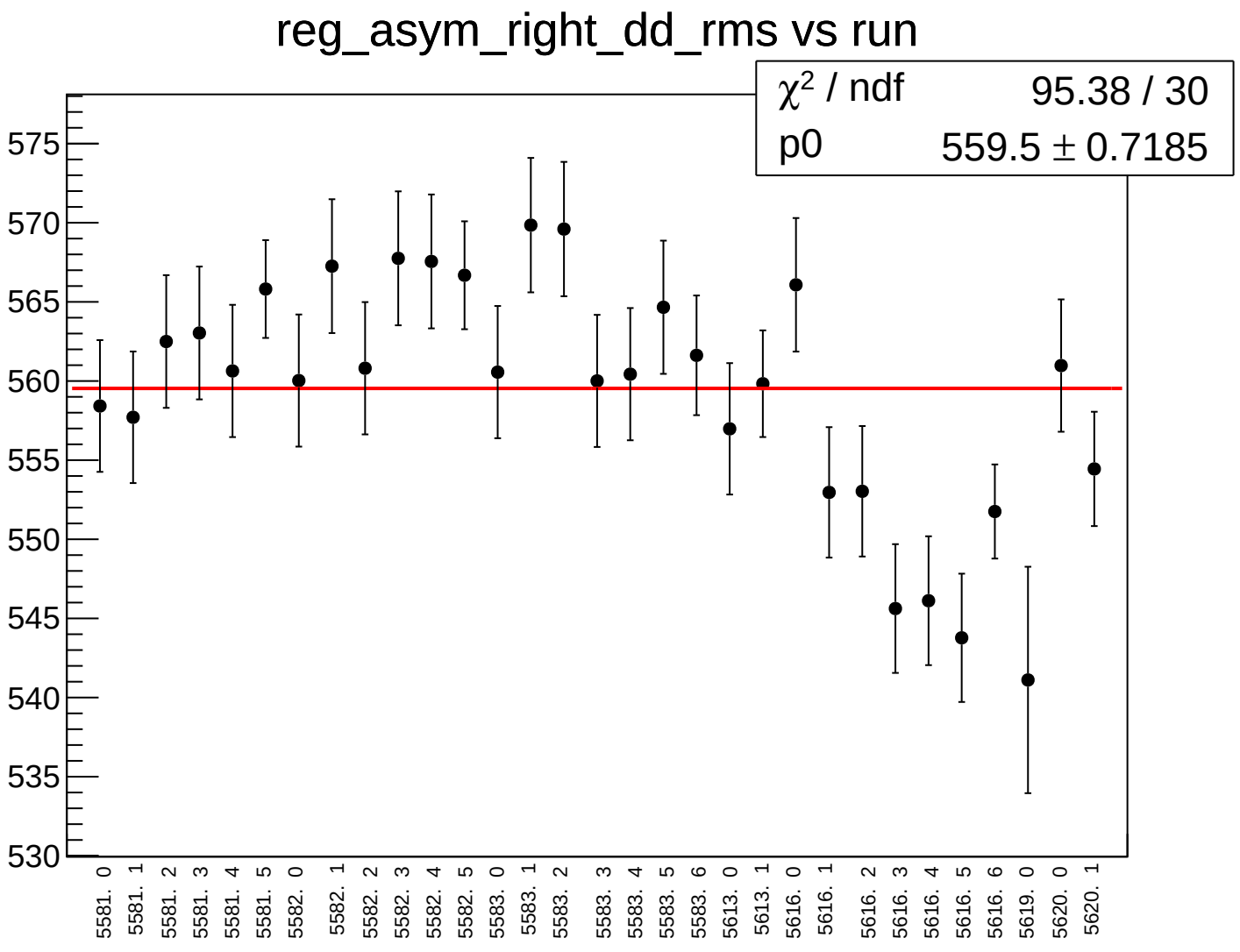

asym_right_avg_mean vs run
χ² / ndf 39.3 / 30
p0 −3266 ± 1841
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 23.84
Std Dev 19.92
2
1
0
−1
−2

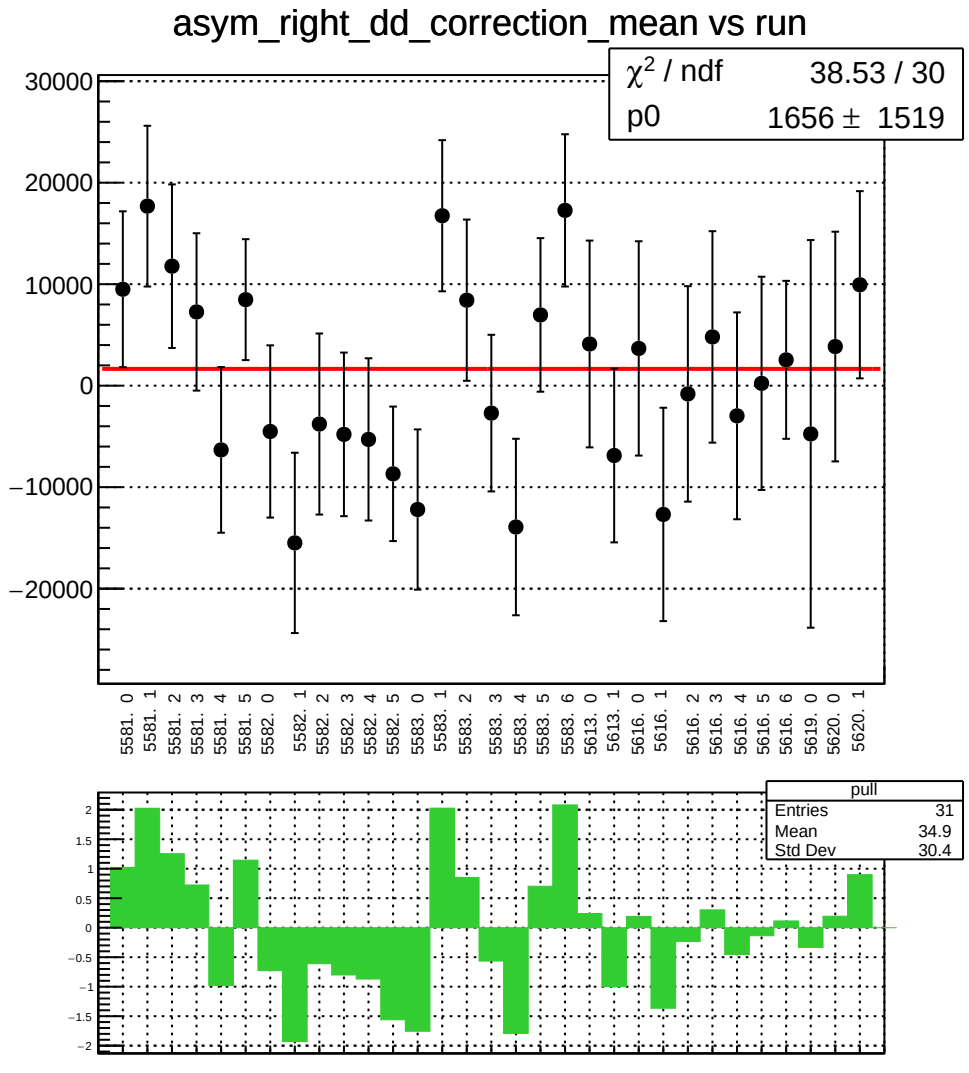

pull1D
Entries 31
Mean 0.03436
Std Dev 1.125
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

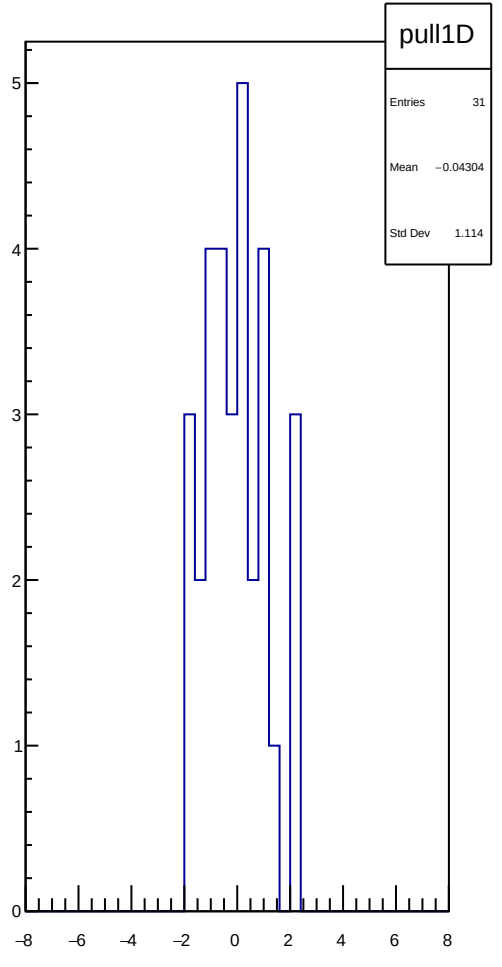

asym_right_avg_rms vs run
χ² / ndf 5166 / 30
p0 1010 ± 1.302
1250
1200
1150
1100
1050
1000
950
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

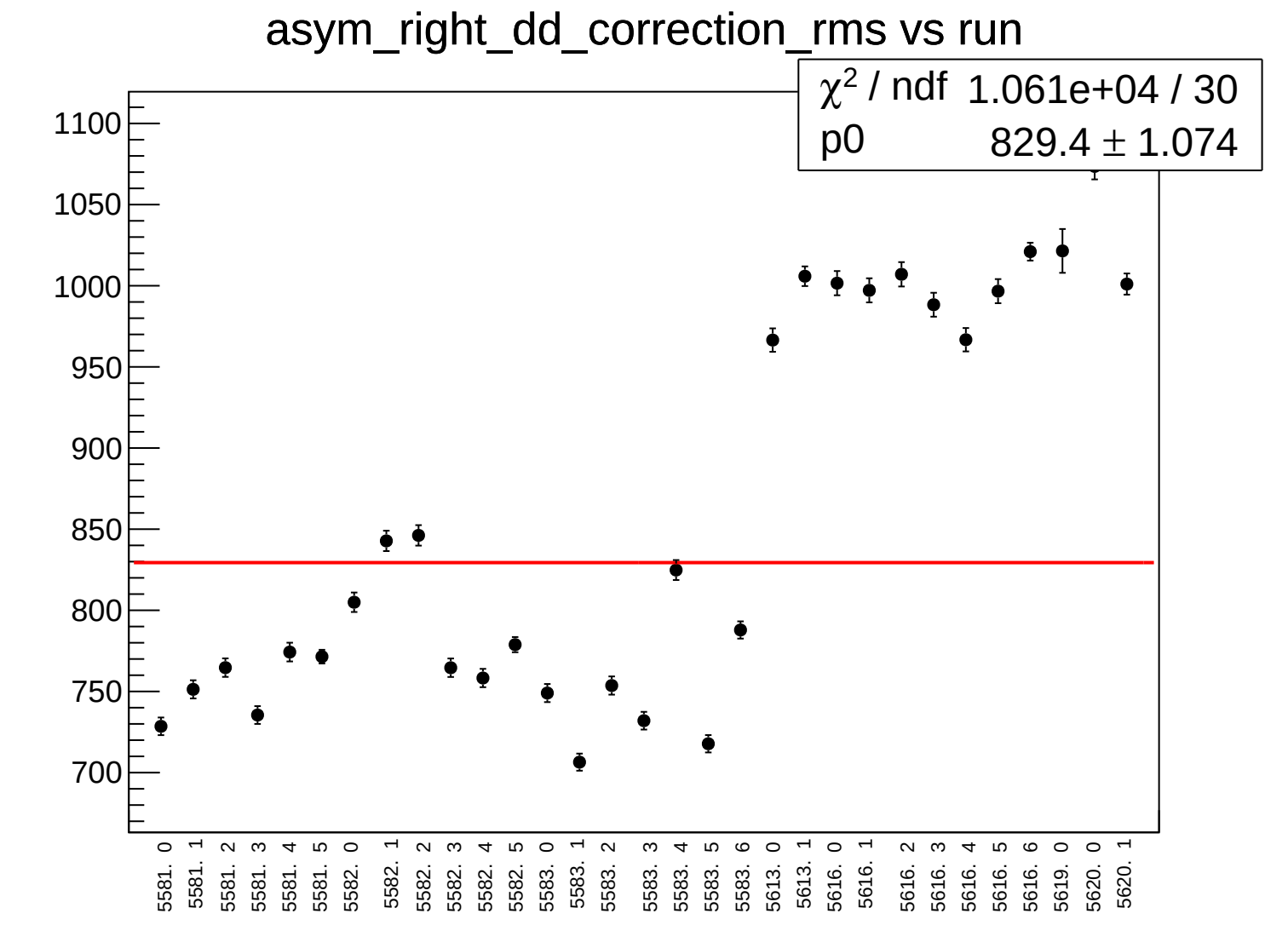

reg_asym_right_dd_mean vs run
χ² / ndf 37.11 / 30
p0 −1875 ± 1016
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −32.16
Std Dev 34.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

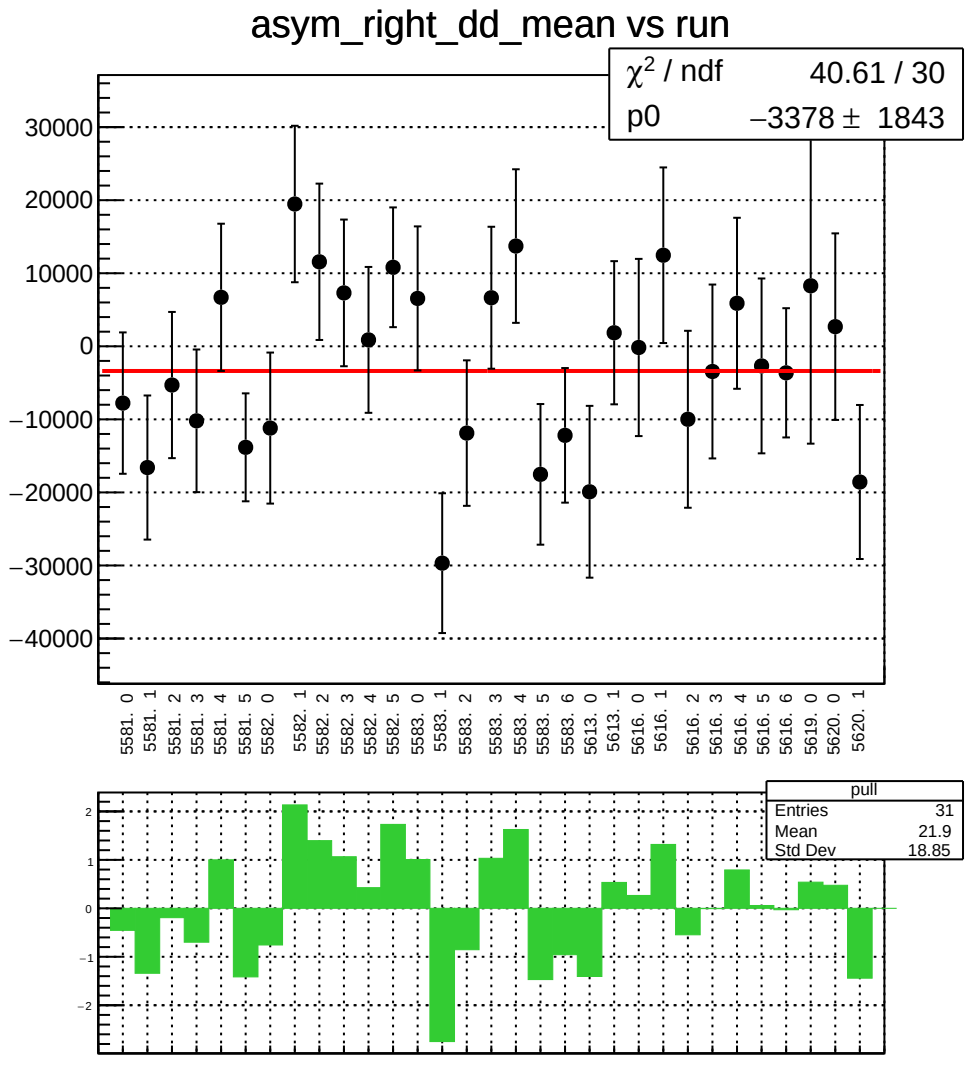

pull1D
Entries 31
Mean 0.01446
Std Dev 1.094
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

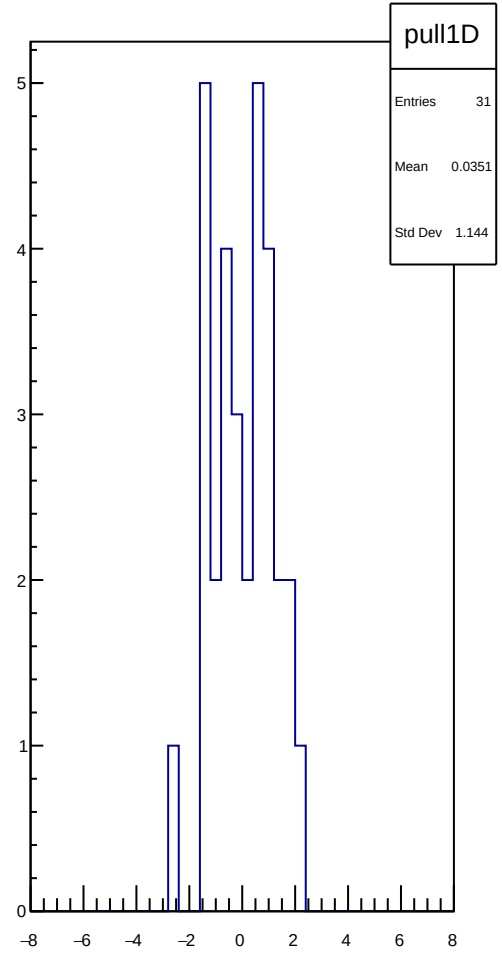

reg_asym_right_dd_rms vs run
χ^2 / ndf 95.38 / 30
p0 559.5 ± 0.7185
575
570
565
560
555
550
545
540
535
530
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

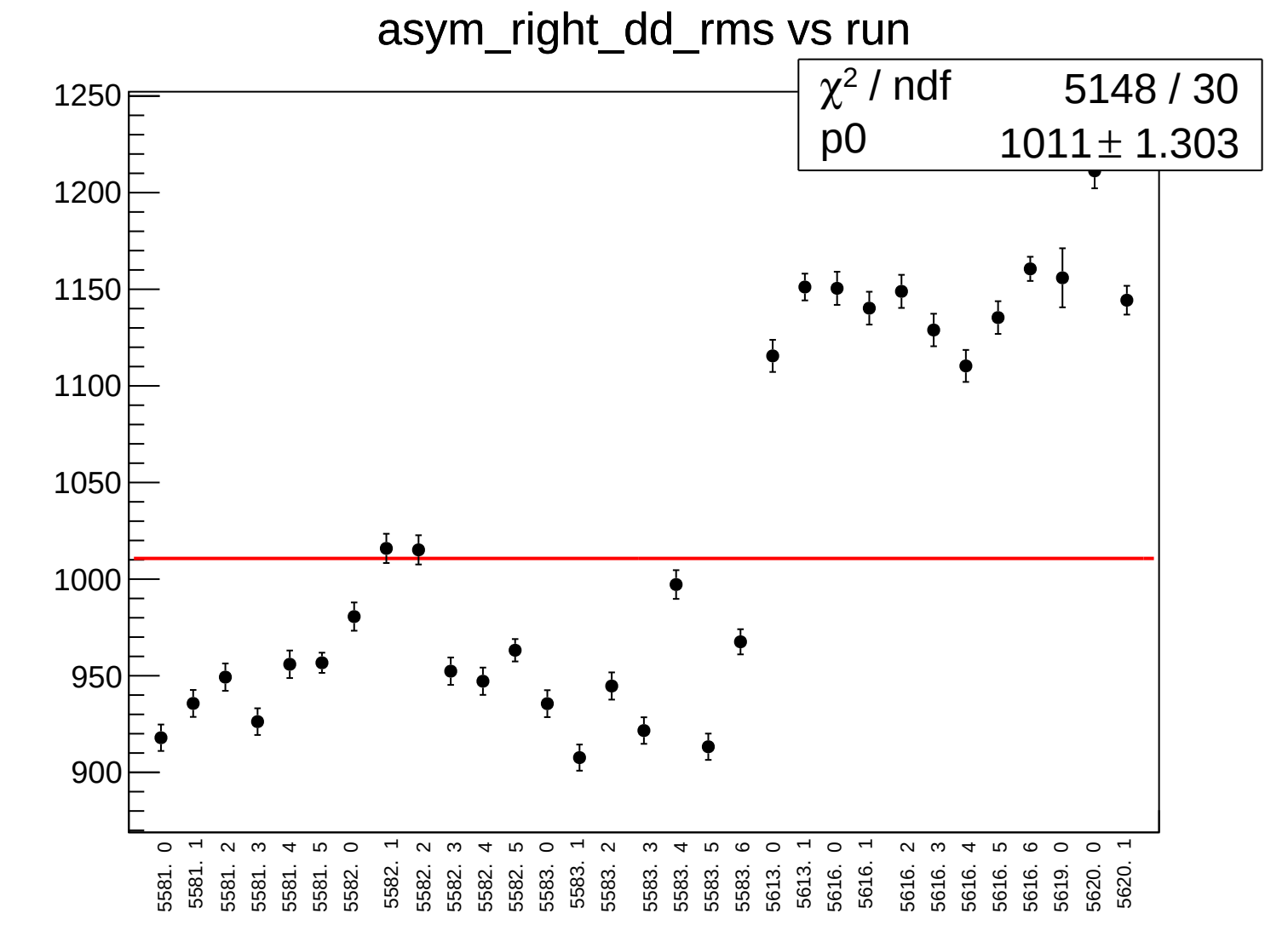

asym_right_dd_correction_mean vs run
χ² / ndf 38.53 / 30
p0 1656 ± 1519
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.9
Std Dev 30.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

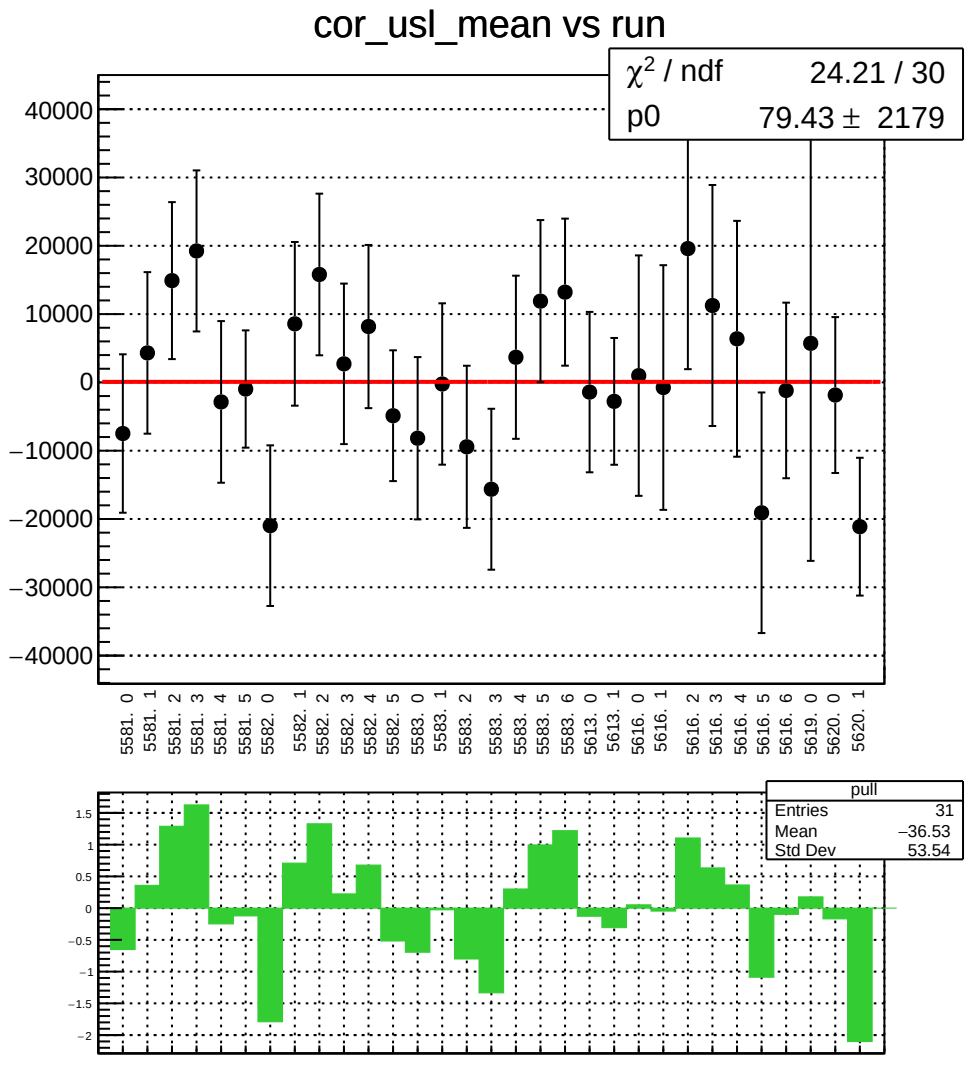

pull1D
Entries 31
Mean −0.04304
Std Dev 1.114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

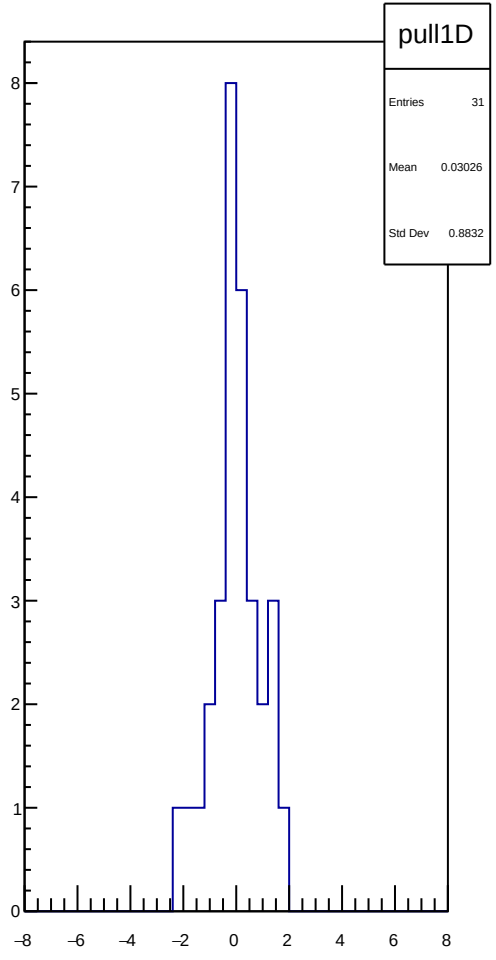

asym_right_dd_correction_rms vs run
χ² / ndf 1.061e+04 / 30
p0 829.4 ± 1.074
1100
1050
1000
950
900
850
800
750
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

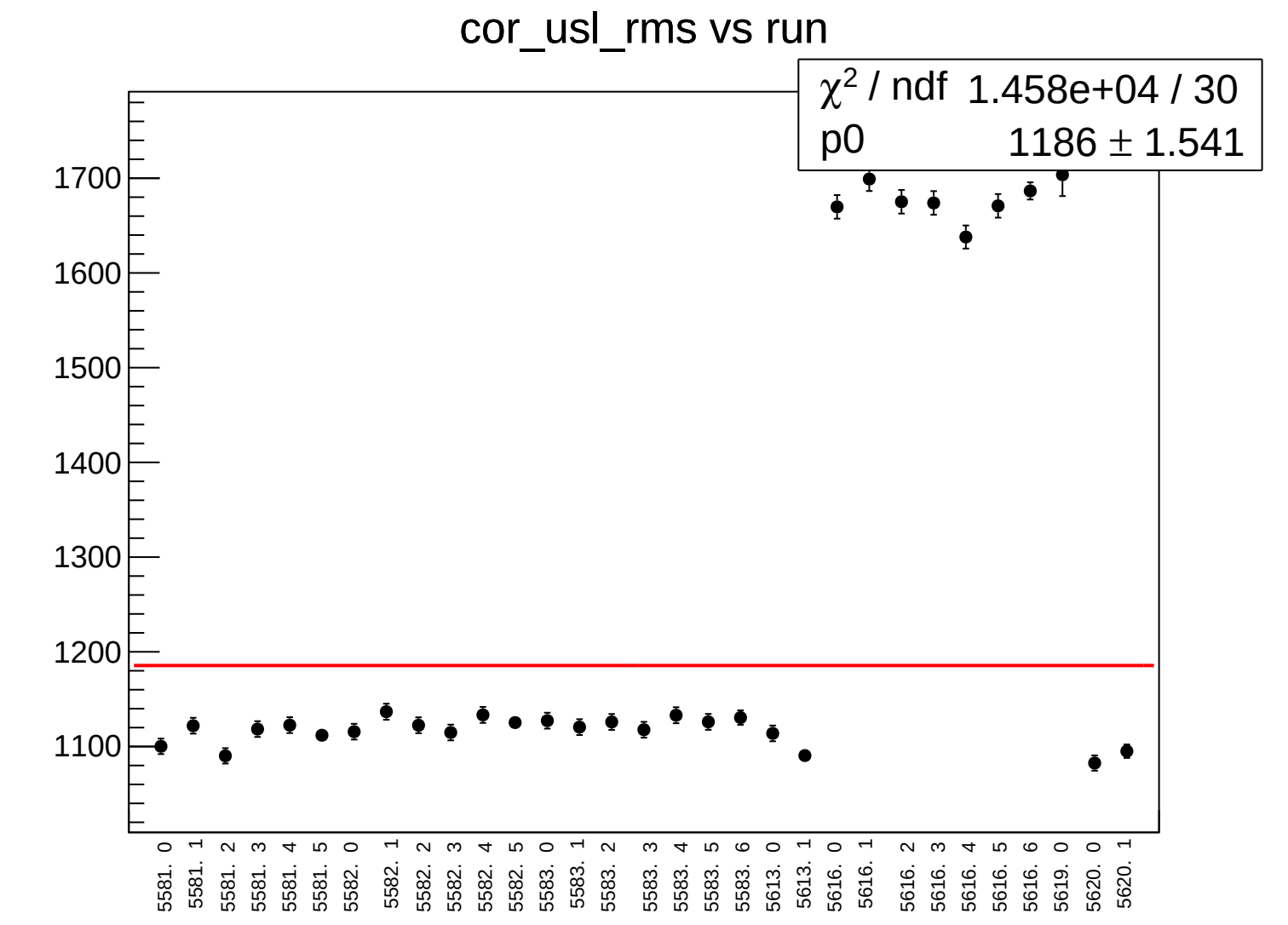

asym_right_dd_mean vs run
χ² / ndf 40.61 / 30
p0 −3378 ± 1843
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 21.9
Std Dev 18.85
2
1
0
−1
−2

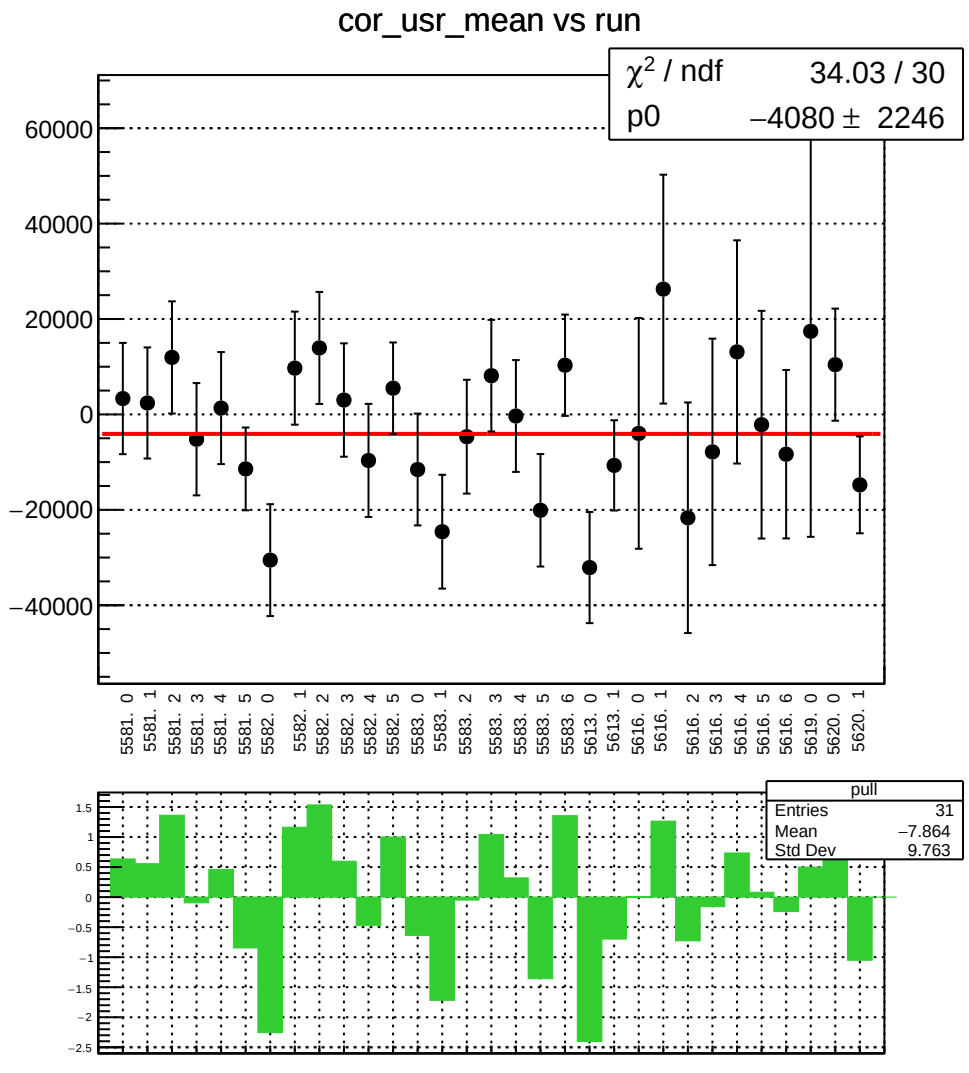

pull1D
Entries 31
Mean 0.0351
Std Dev 1.144
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

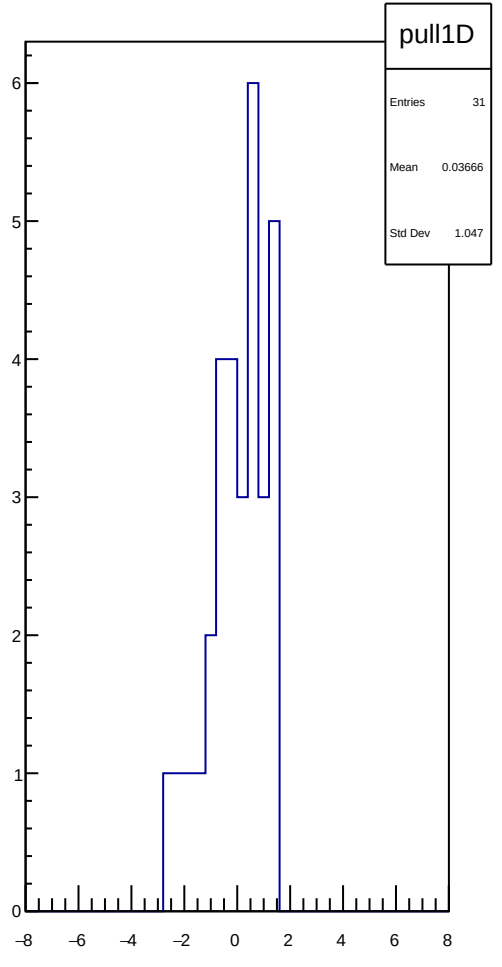

asym_right_dd_rms vs run
χ² / ndf 5148 / 30
p0 1011 ± 1.303
1250
1200
1150
1100
1050
1000
950
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

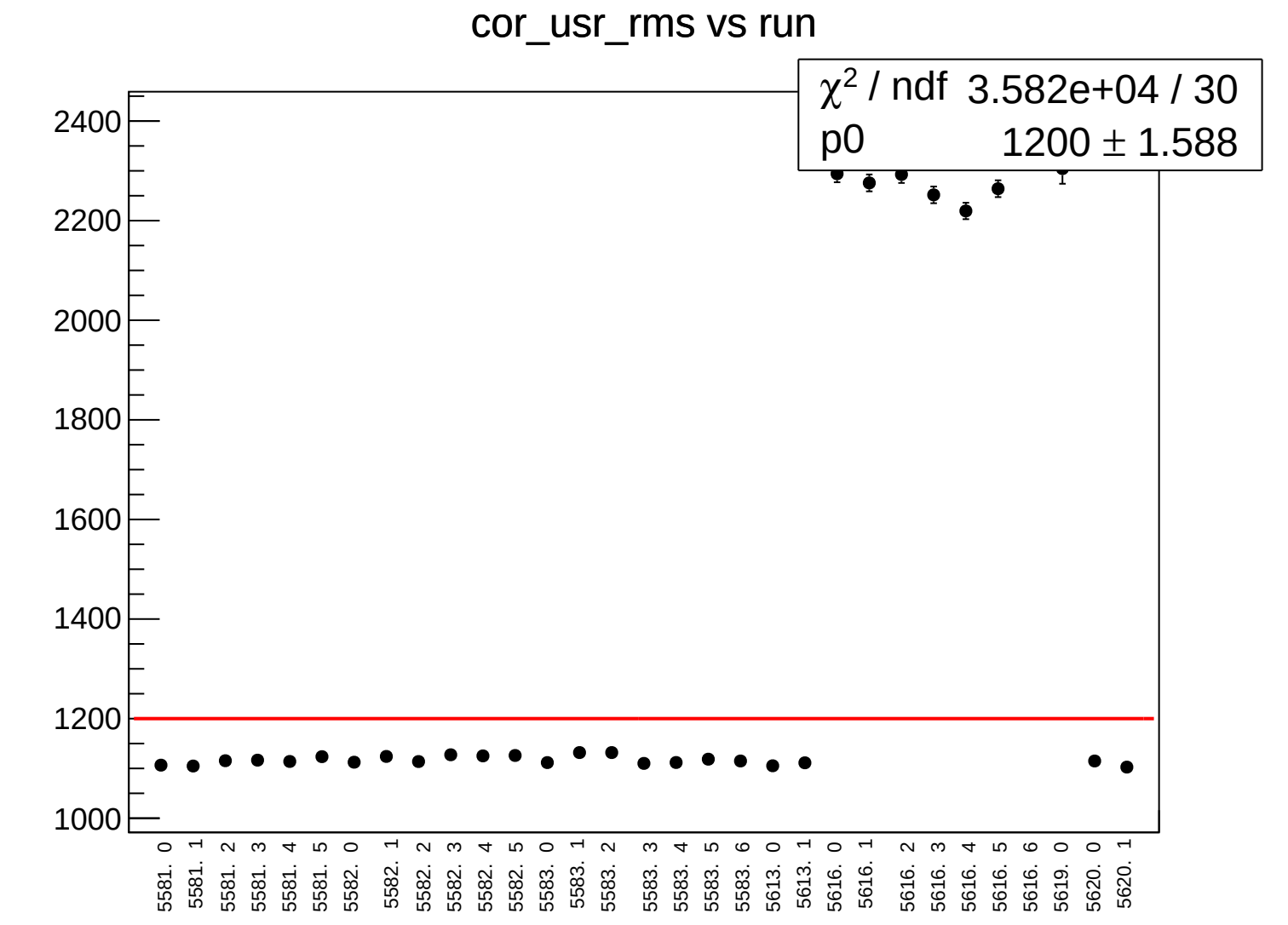

cor_usl_mean vs run
χ² / ndf 24.21 / 30
p0 79.43 ± 2179
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −36.53
Std Dev 53.54
1.5
1
0.5
0
−0.5
−1
−1.5
−2

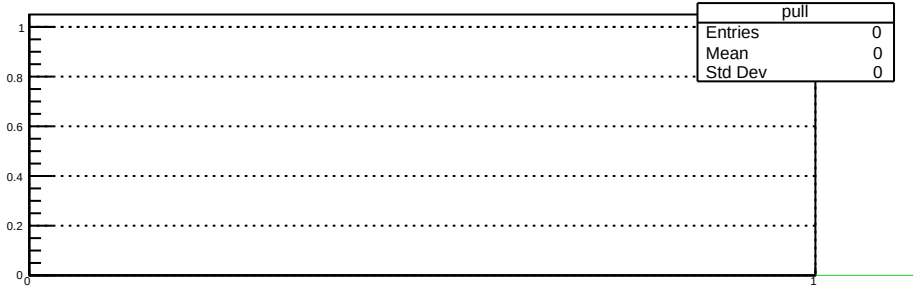

pull1D
Entries 31
Mean 0.03026
Std Dev 0.8832
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

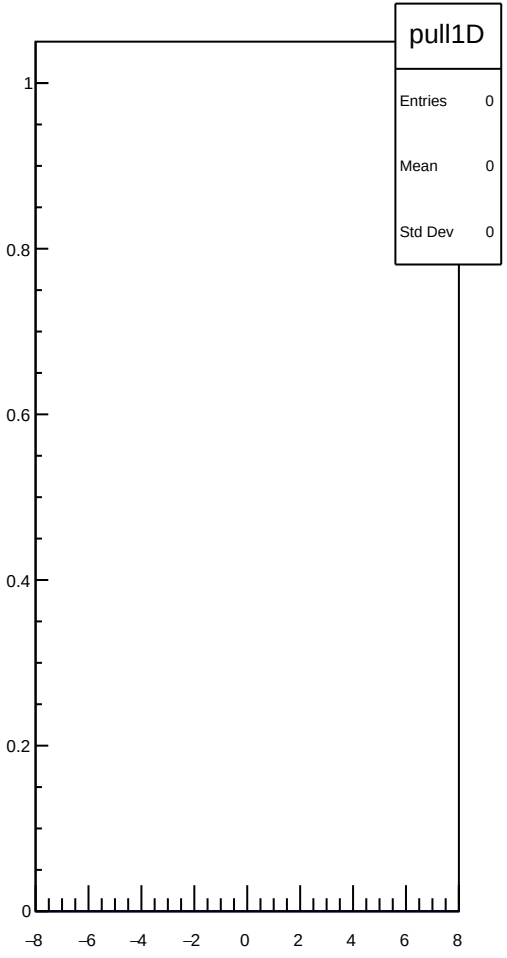

cor_usl_rms vs run
χ² / ndf 1.458e+04 / 30
p0 1186 ± 1.541
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

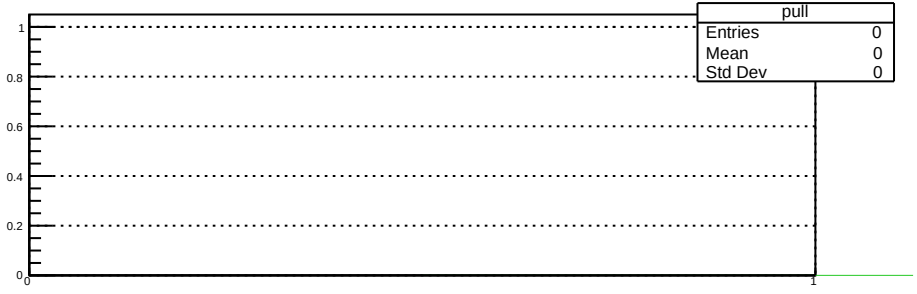

cor_usr_mean vs run
χ² / ndf 34.03 / 30
p0 −4080 ± 2246
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −7.864
Std Dev 9.763
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

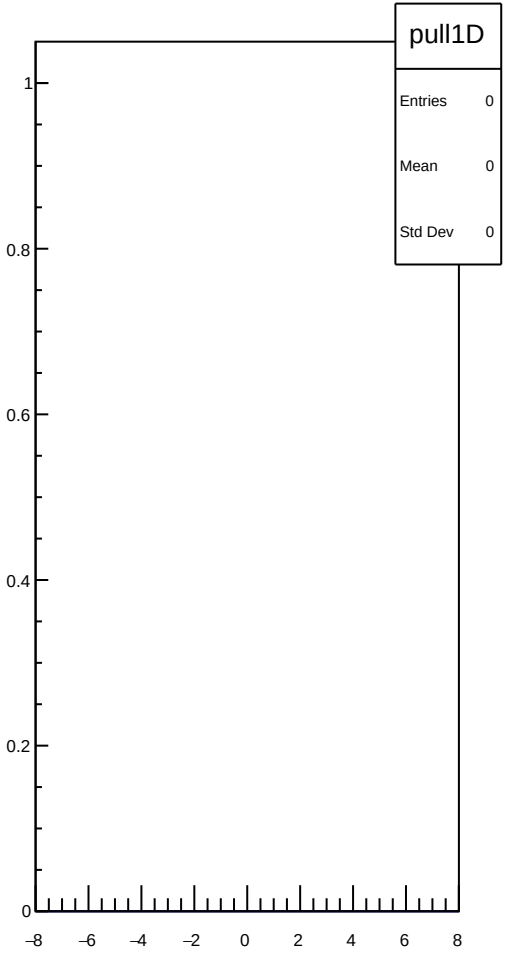

pull1D
Entries 31
Mean 0.03666
Std Dev 1.047
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

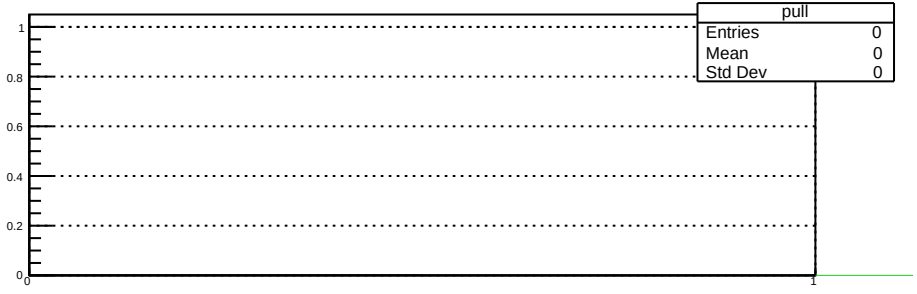

cor_usr_rms vs run
χ² / ndf 3.582e+04 / 30
p0 1200 ± 1.588
2400
2200
2000
1800
1600
1400
1200
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

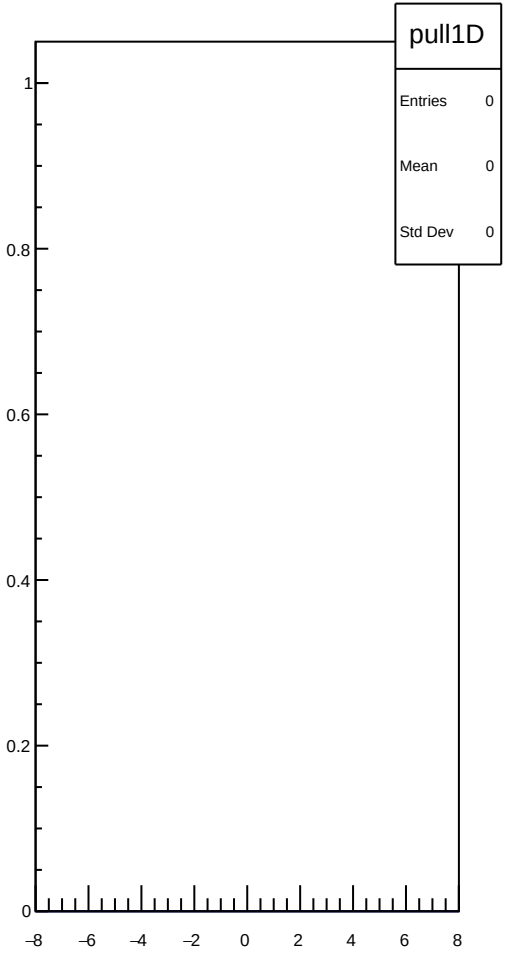

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

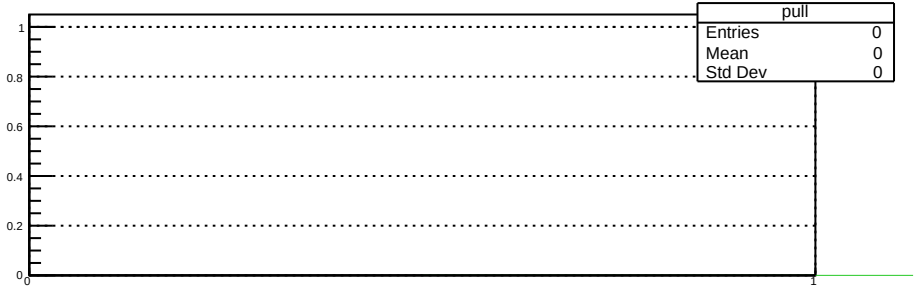

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

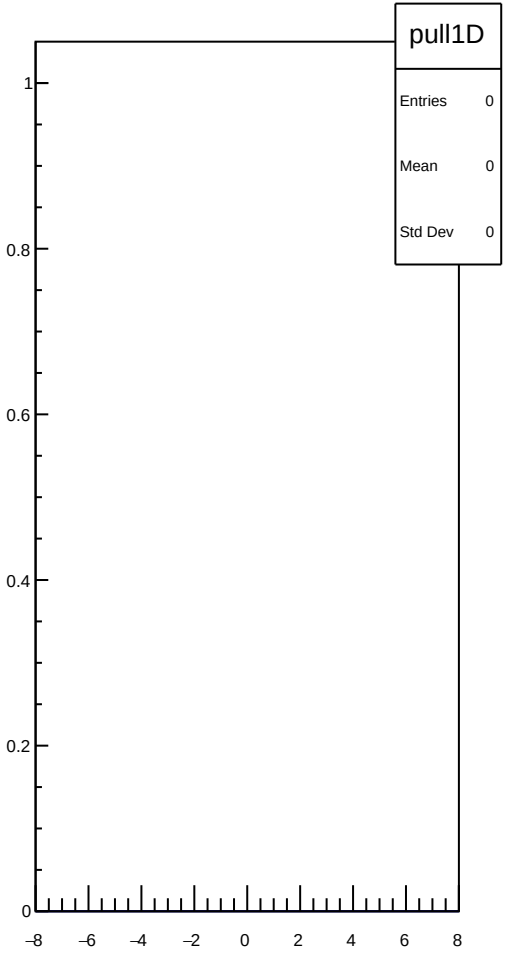

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

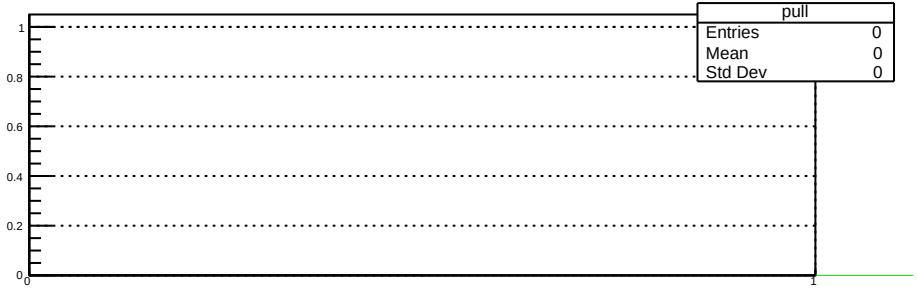

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

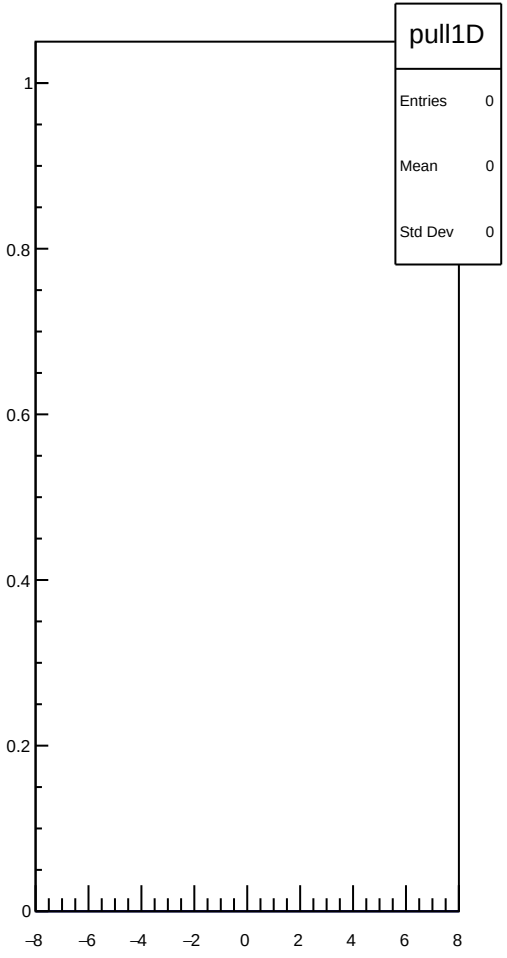

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

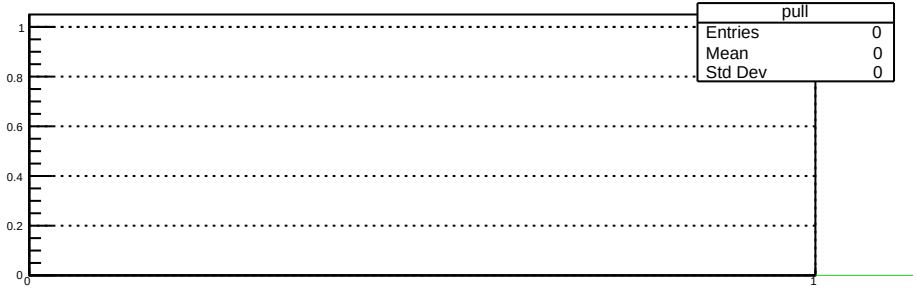

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

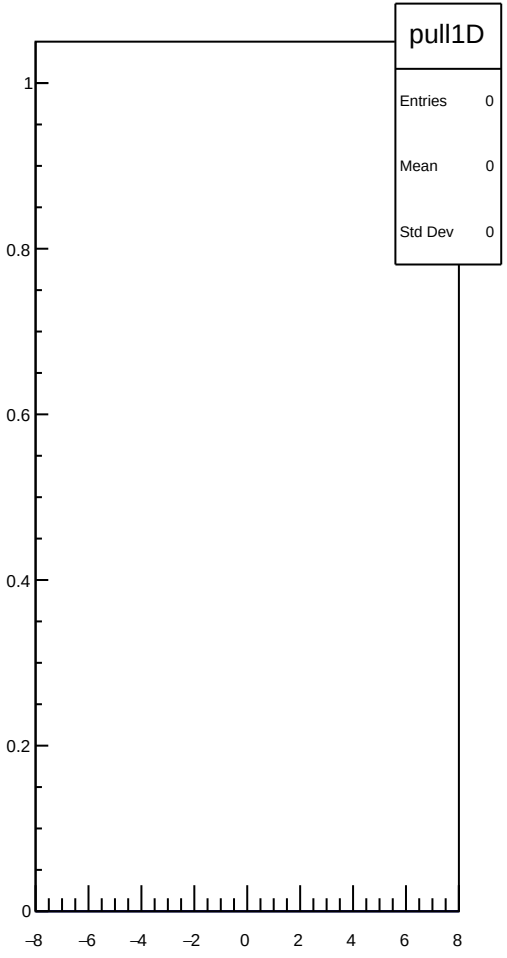

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

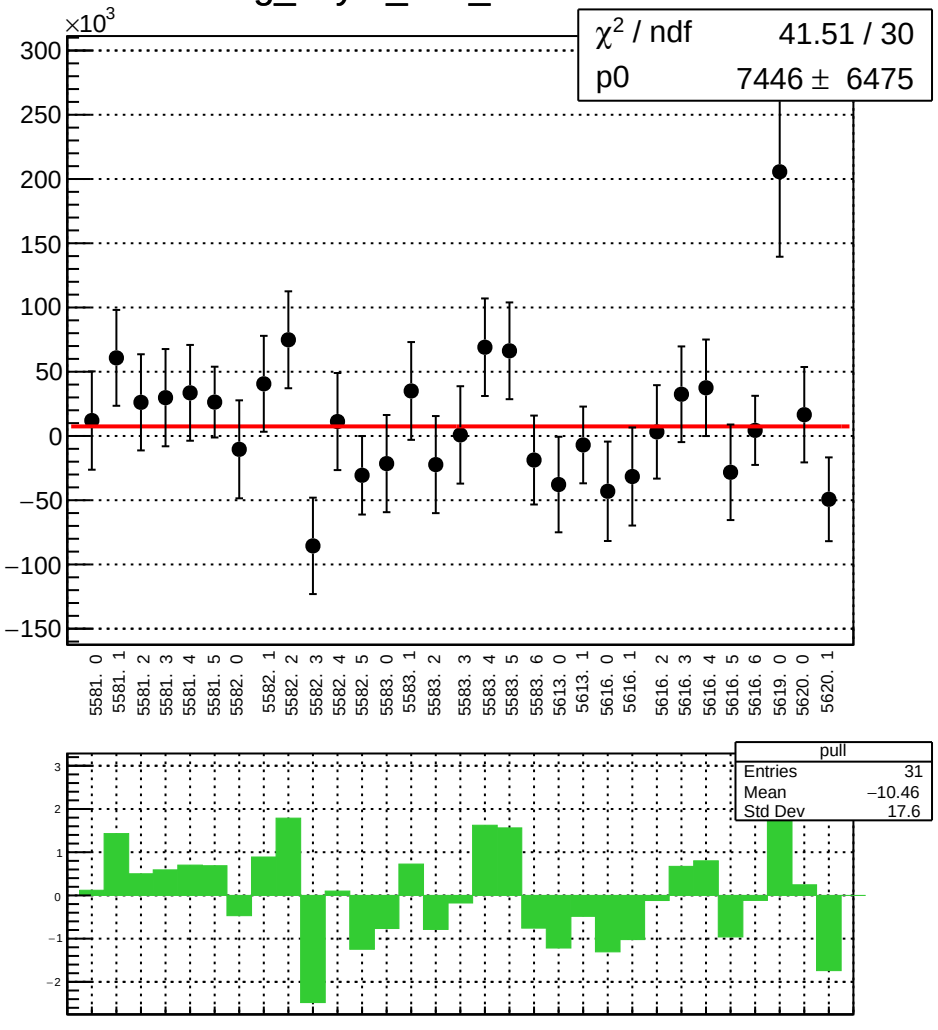

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

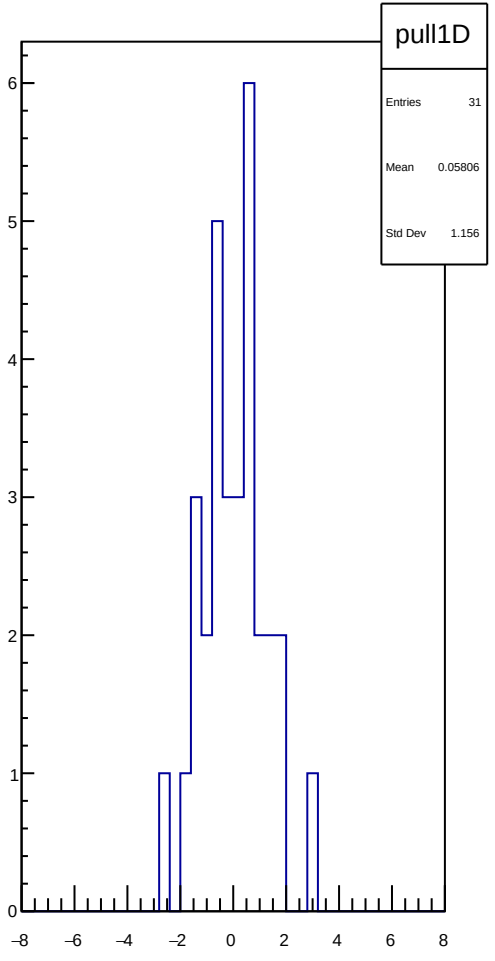

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

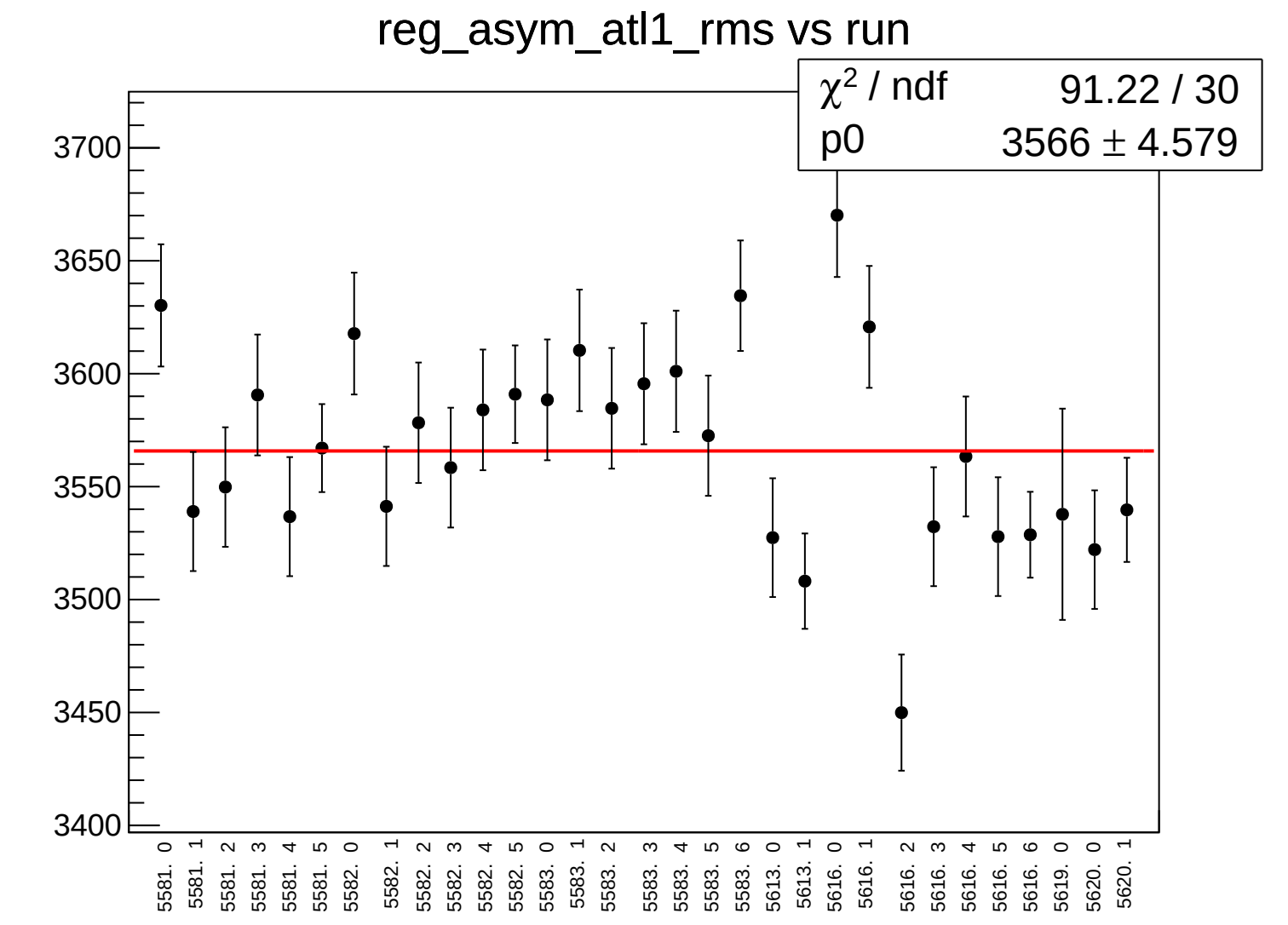

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

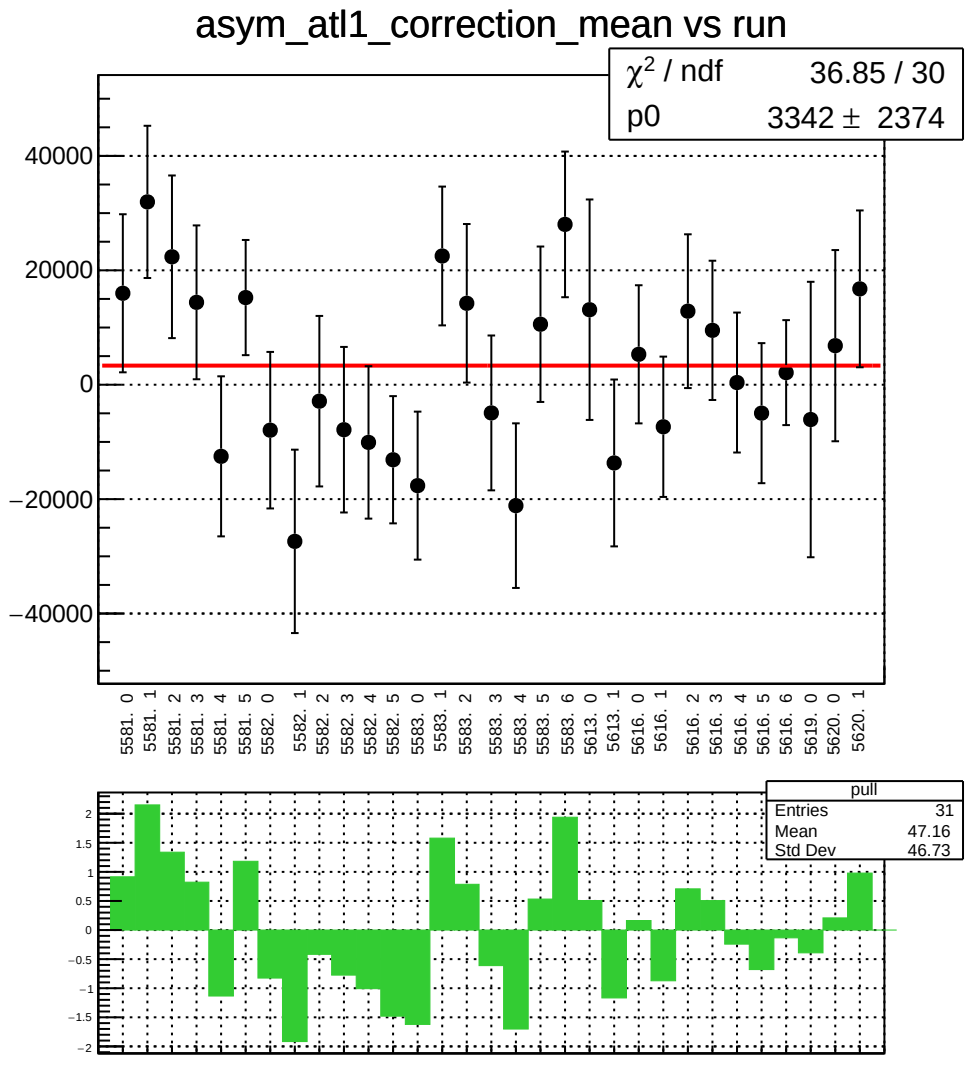

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

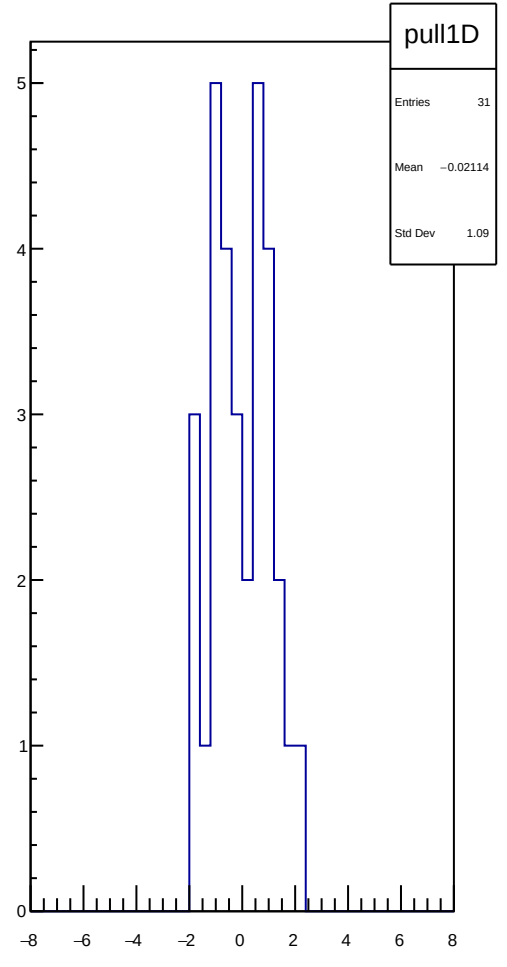

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

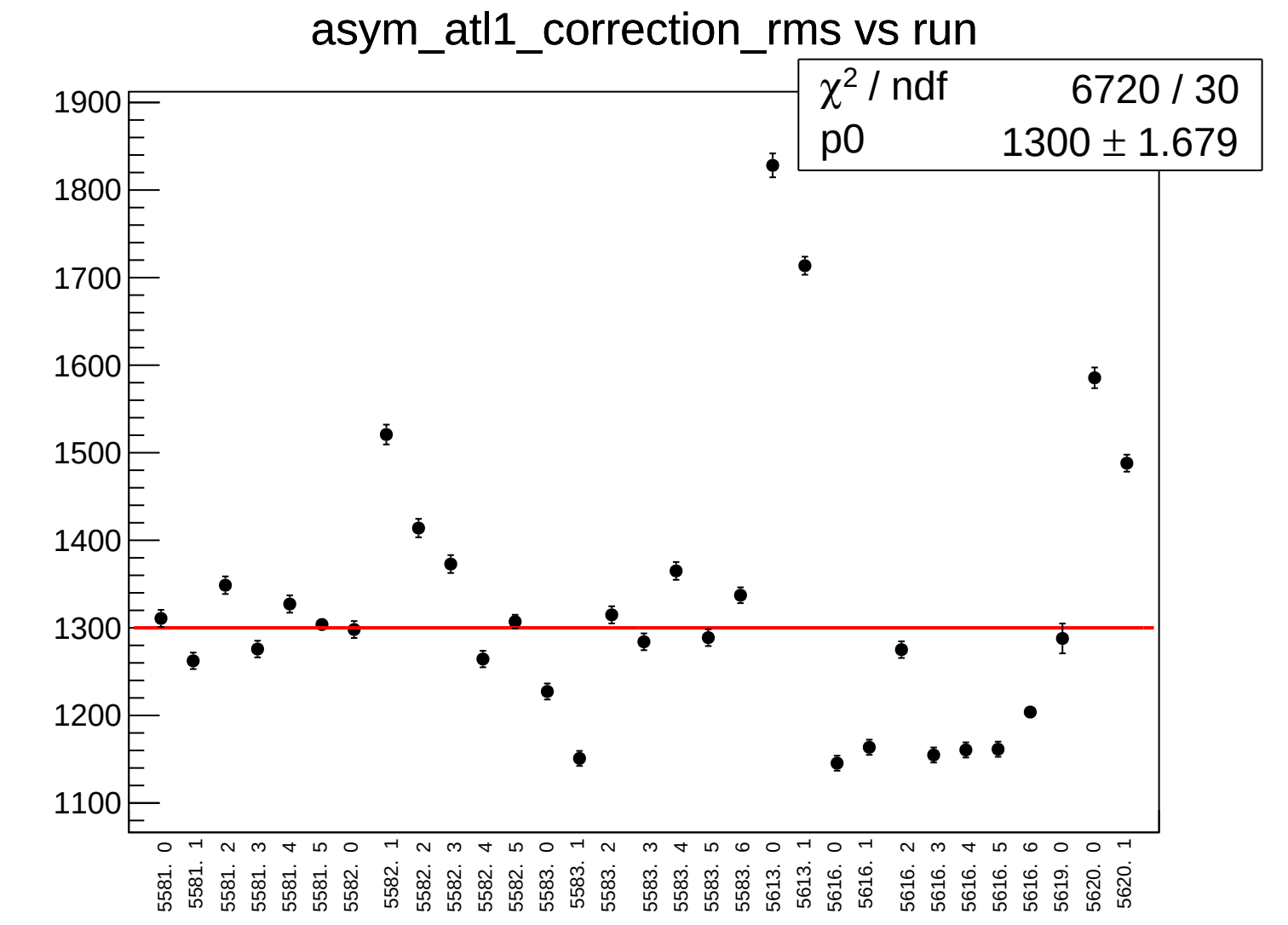

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 41.51 / 30
p0 7446 ± 6475
pull
Entries 31
Mean −10.46
Std Dev 17.6

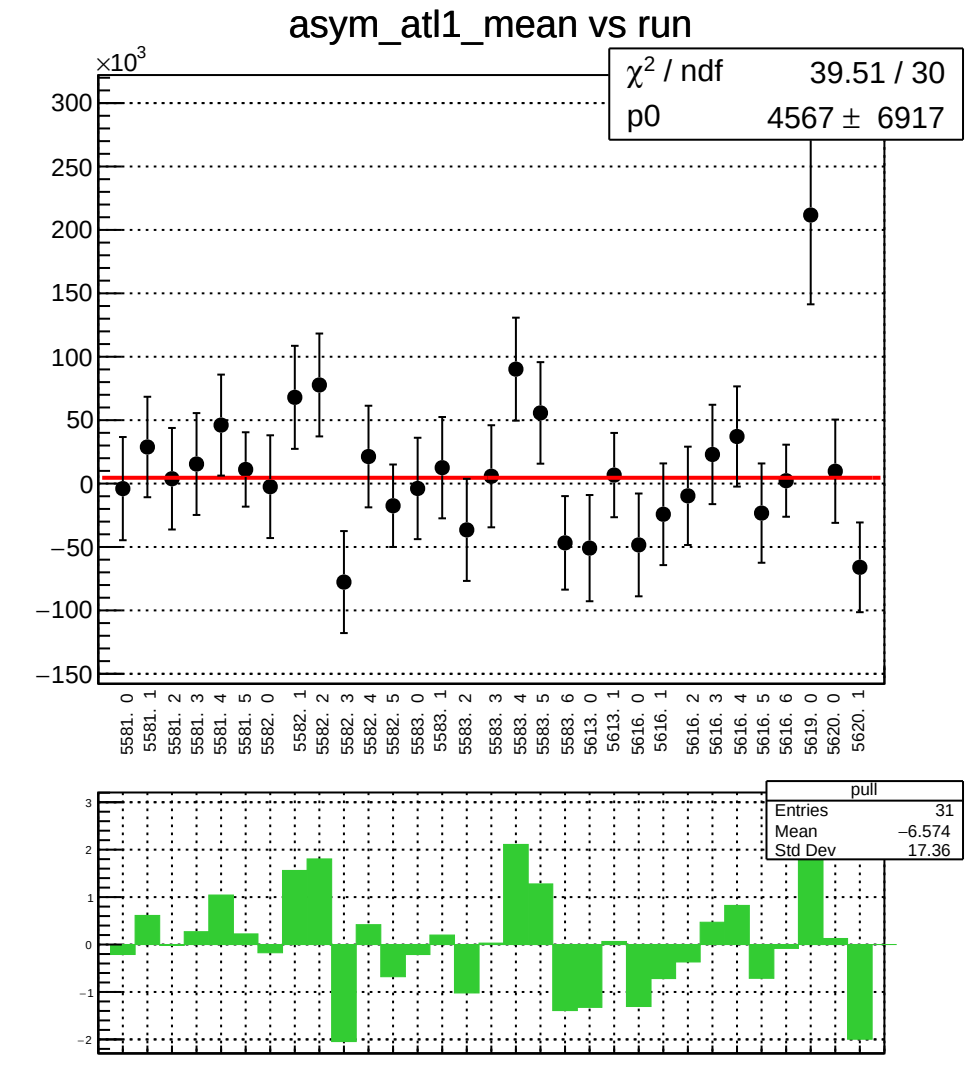

pull1D
Entries 31
Mean 0.05806
Std Dev 1.156

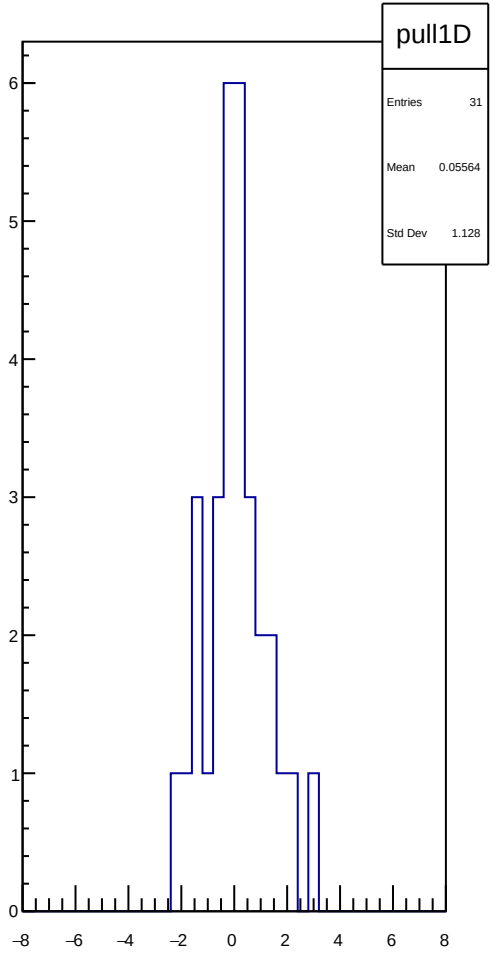

reg_asym_atl1_rms vs run
χ² / ndf 91.22 / 30
p0 3566 ± 4.579
3700
3650
3600
3550
3500
3450
3400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

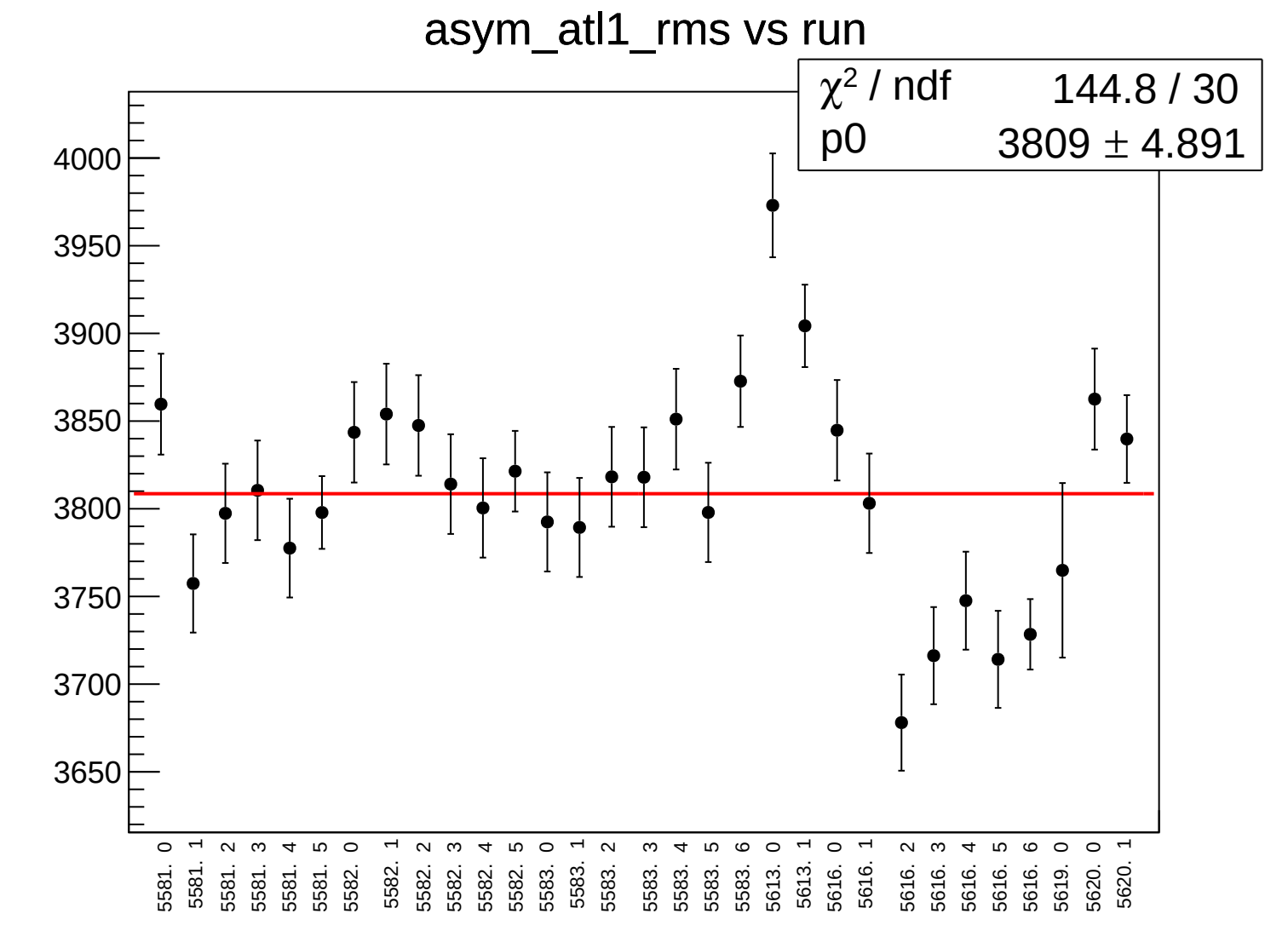

asym_atl1_correction_mean vs run
χ² / ndf 36.85 / 30
p0 3342 ± 2374
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 47.16
Std Dev 46.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

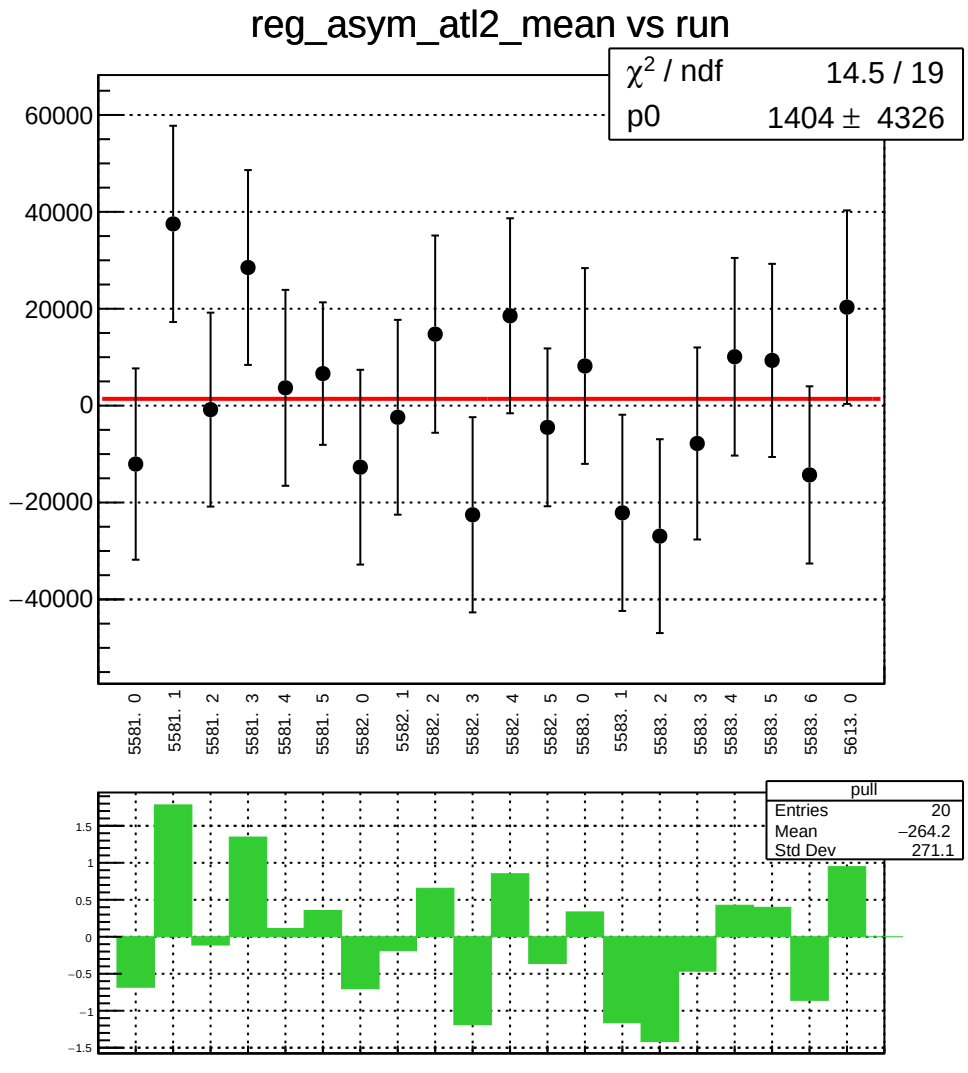

pull1D
Entries 31
Mean −0.02114
Std Dev 1.09
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

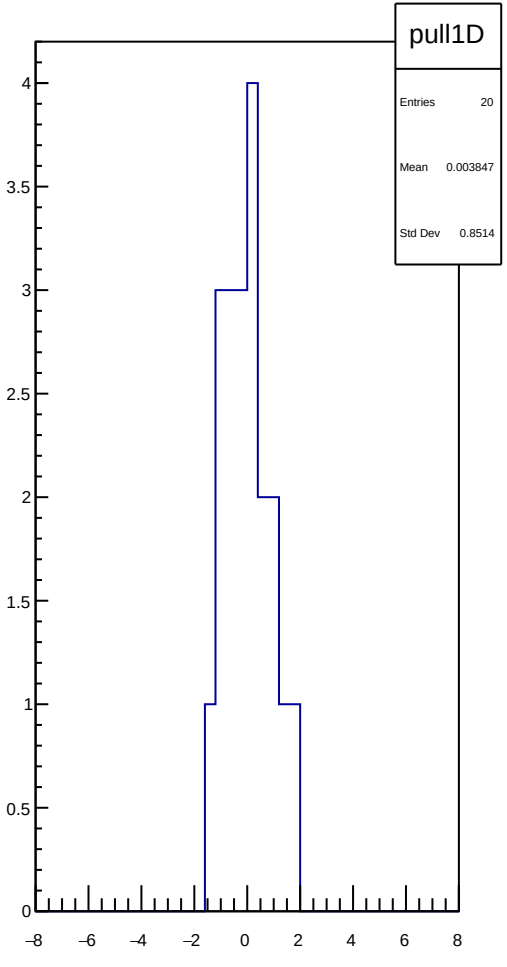

asym_atl1_correction_rms vs run
χ² / ndf 6720 / 30
p0 1300 ± 1.679
1900
1800
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

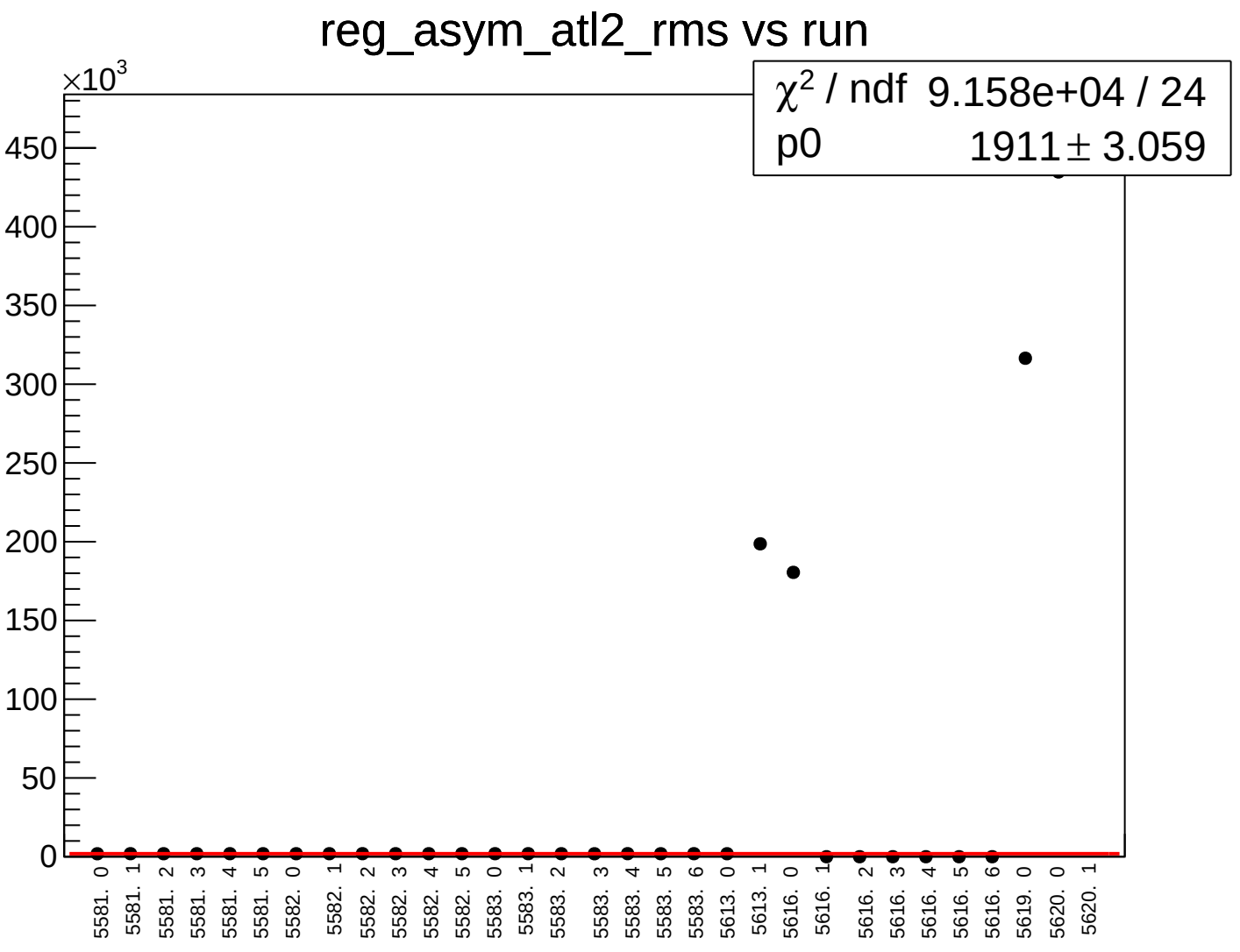

asym_atl1_mean vs run
×10^3
χ^2 / ndf 39.51 / 30
p0 4567 ± 6917
300
250
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −6.574
Std Dev 17.36
3
2
1
0
−1
−2

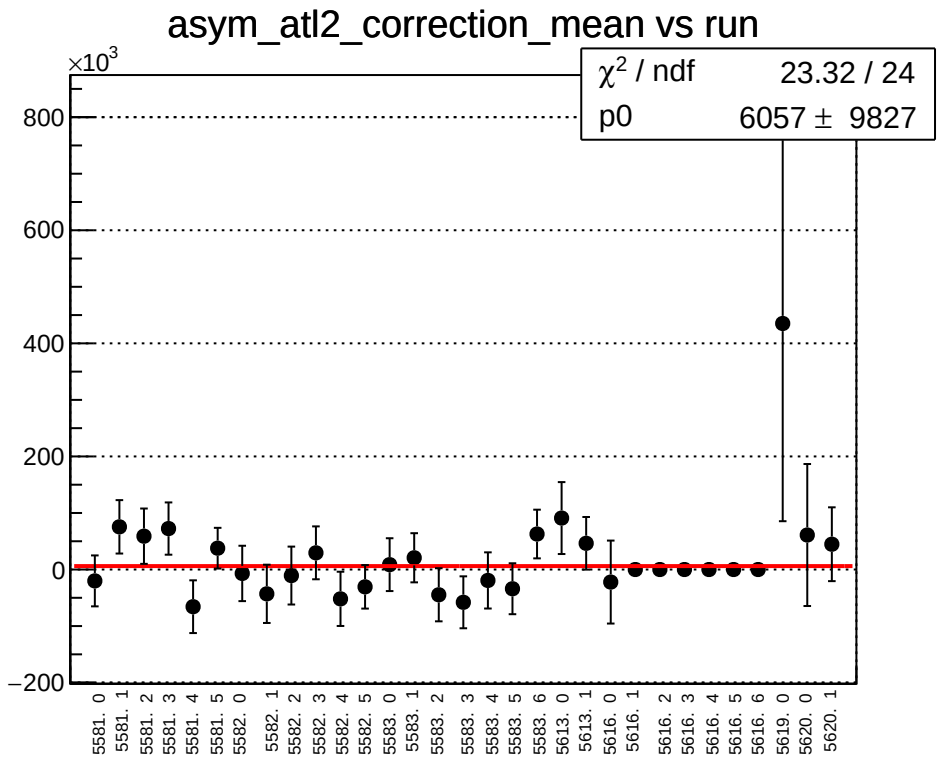

pull1D
Entries 31
Mean 0.05564
Std Dev 1.128
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

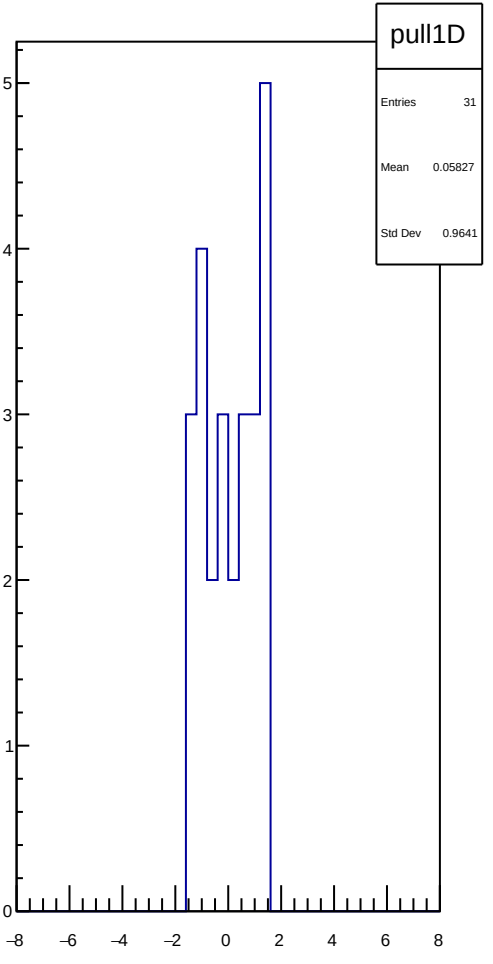

asym_atl1_rms vs run
χ² / ndf 144.8 / 30
p0 3809 ± 4.891
4000
3950
3900
3850
3800
3750
3700
3650
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

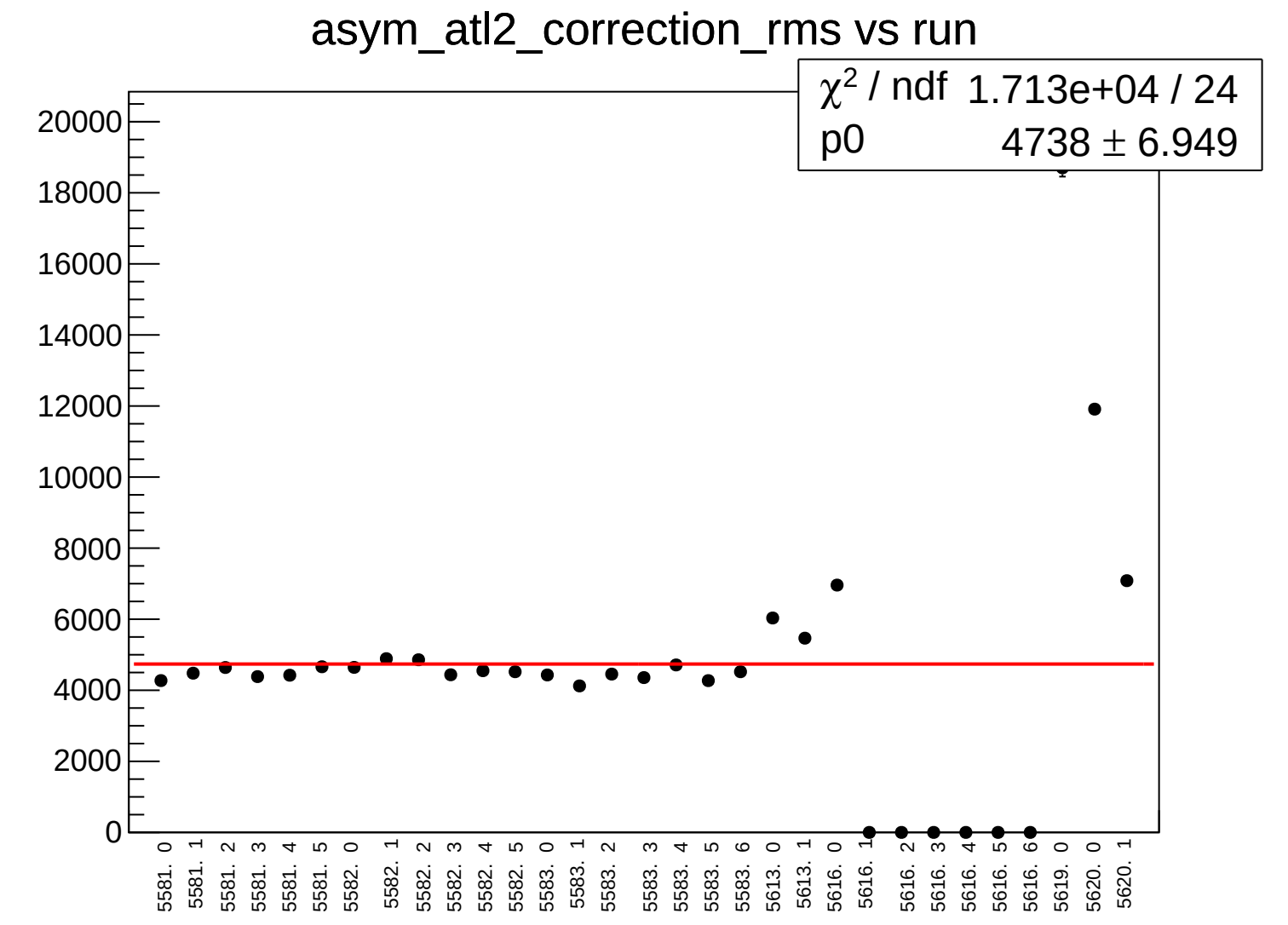

reg_asym_atl2_mean vs run
χ² / ndf 14.5 / 19
p0 1404 ± 4326
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean −264.2
Std Dev 271.1
1.5
1
0.5
0
−0.5
−1
−1.5

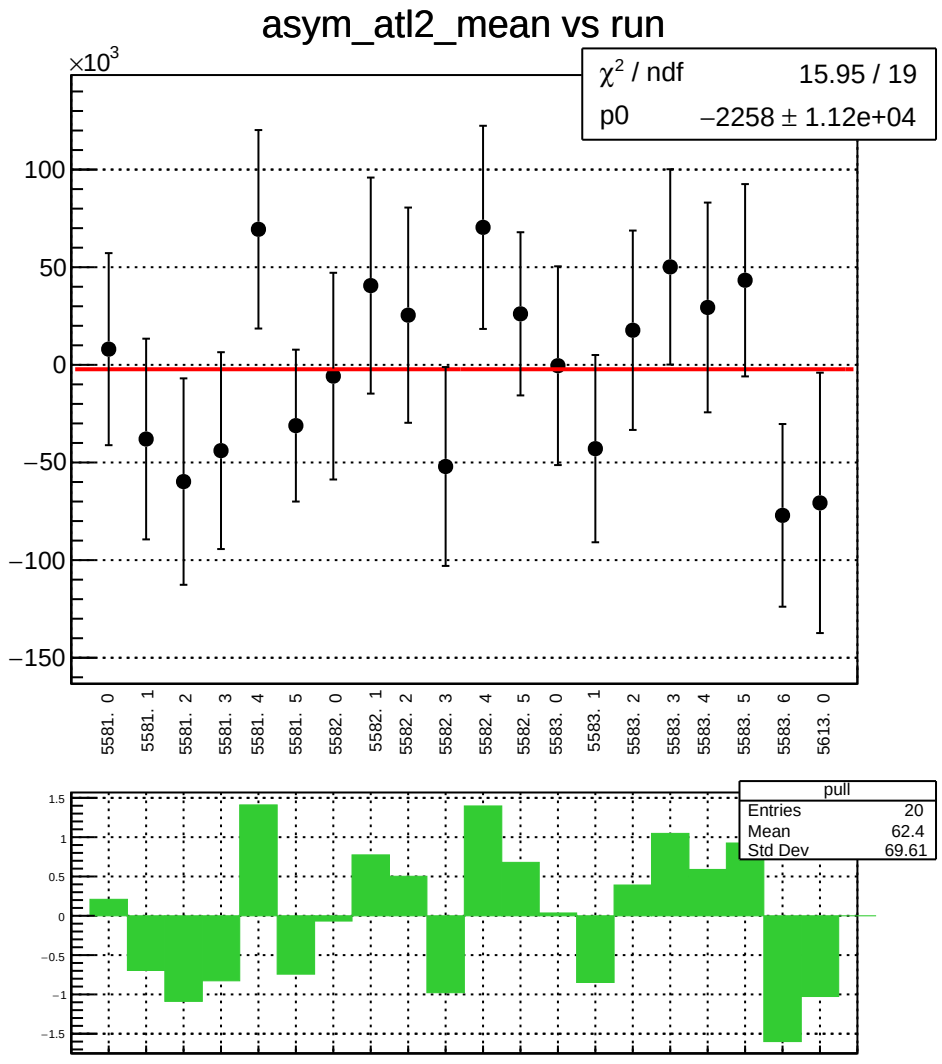

pull1D
Entries 20
Mean 0.003847
Std Dev 0.8514
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

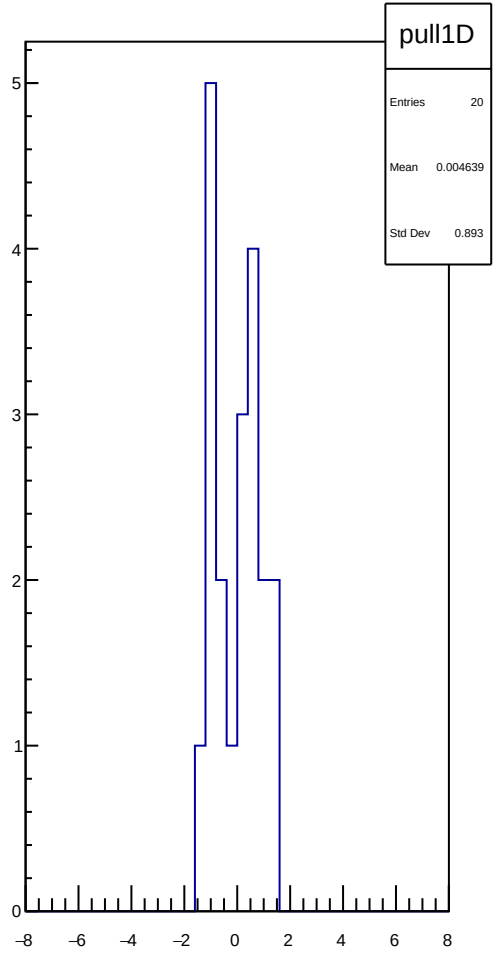

reg_asym_atl2_rms vs run
×10^3
χ^2 / ndf 9.158e+04 / 24
p0 1911 ± 3.059
450
400
350
300
250
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

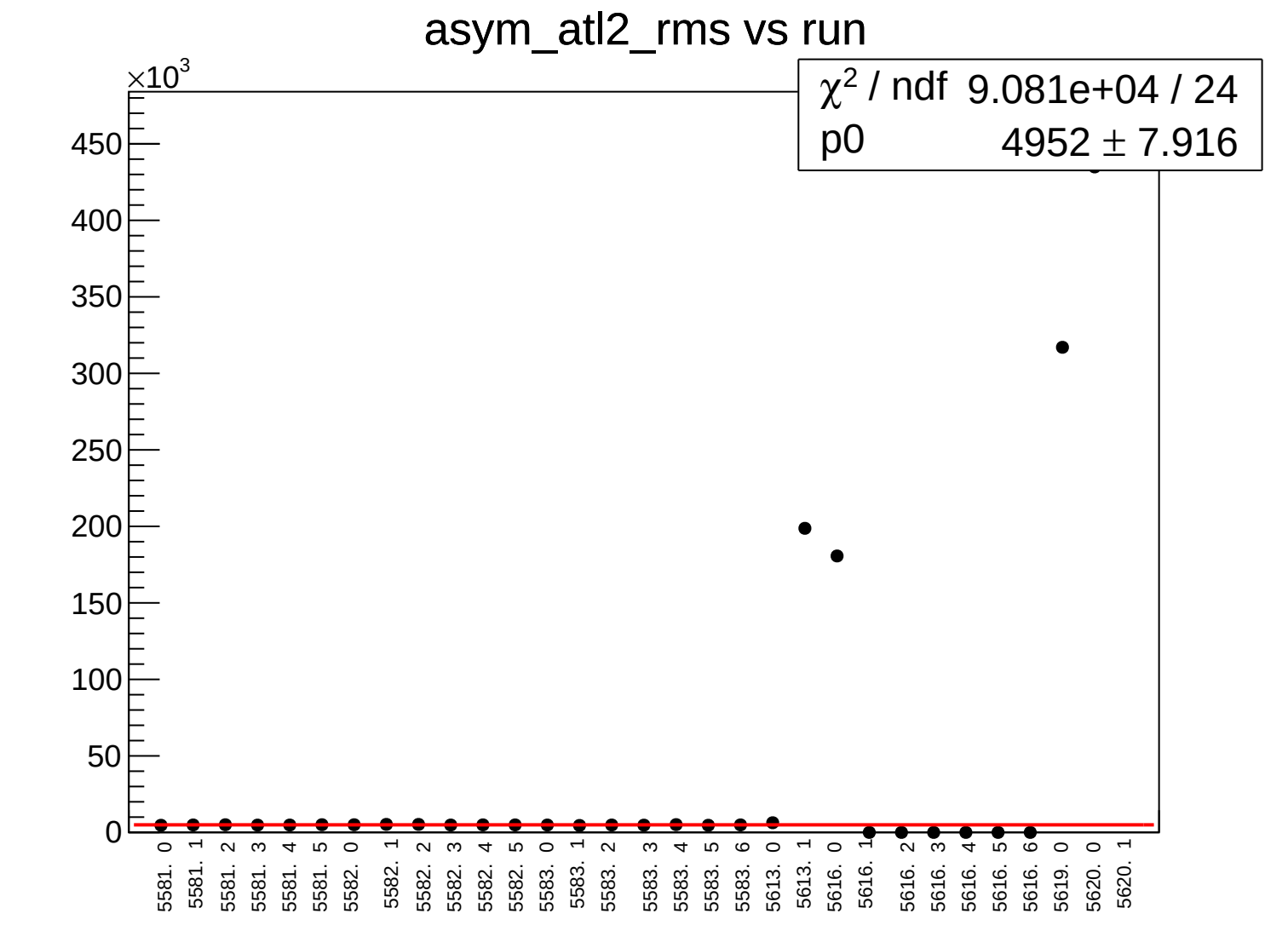

asym_atl2_correction_mean vs run
×10^3
χ^2 / ndf 23.32 / 24
p0 6057 ± 9827
800
600
400
200
0
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

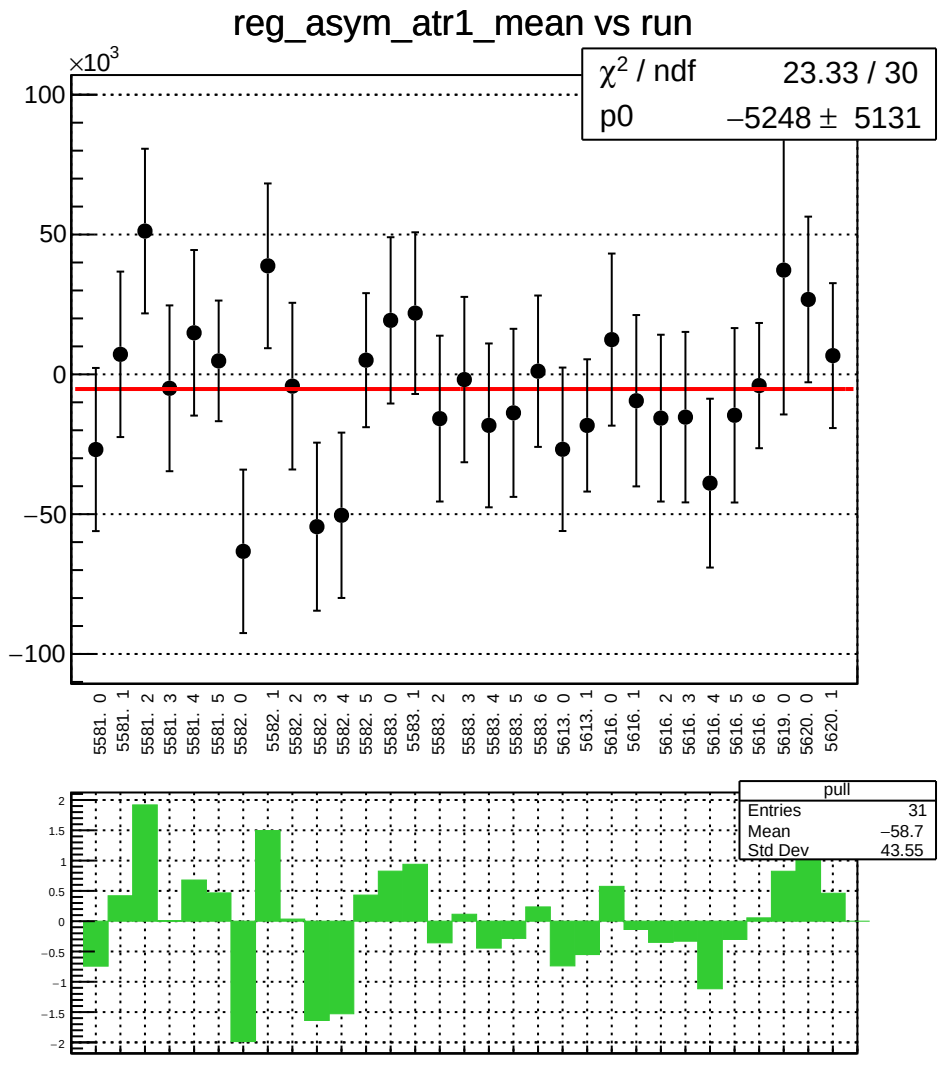

pull1D
Entries 31
Mean 0.05827
Std Dev 0.9641
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

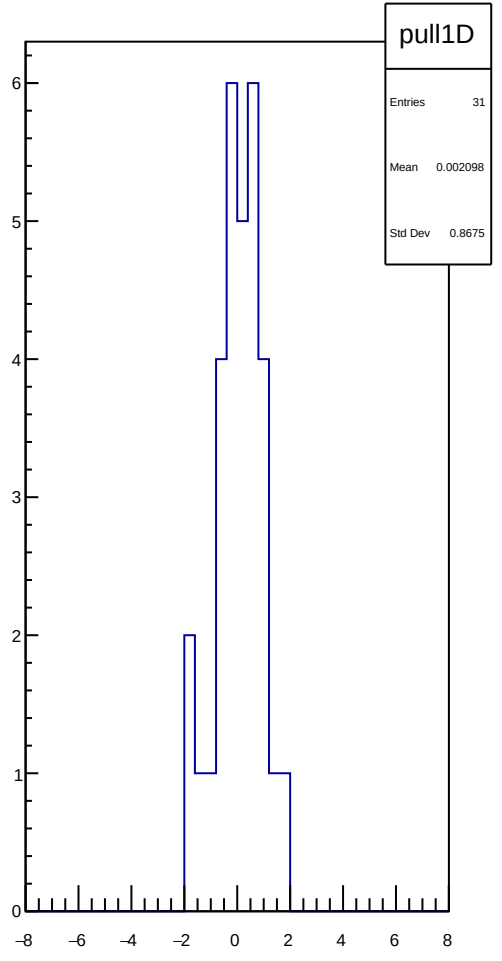

asym_atl2_correction_rms vs run
χ² / ndf 1.713e+04 / 24
p0 4738 ± 6.949
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

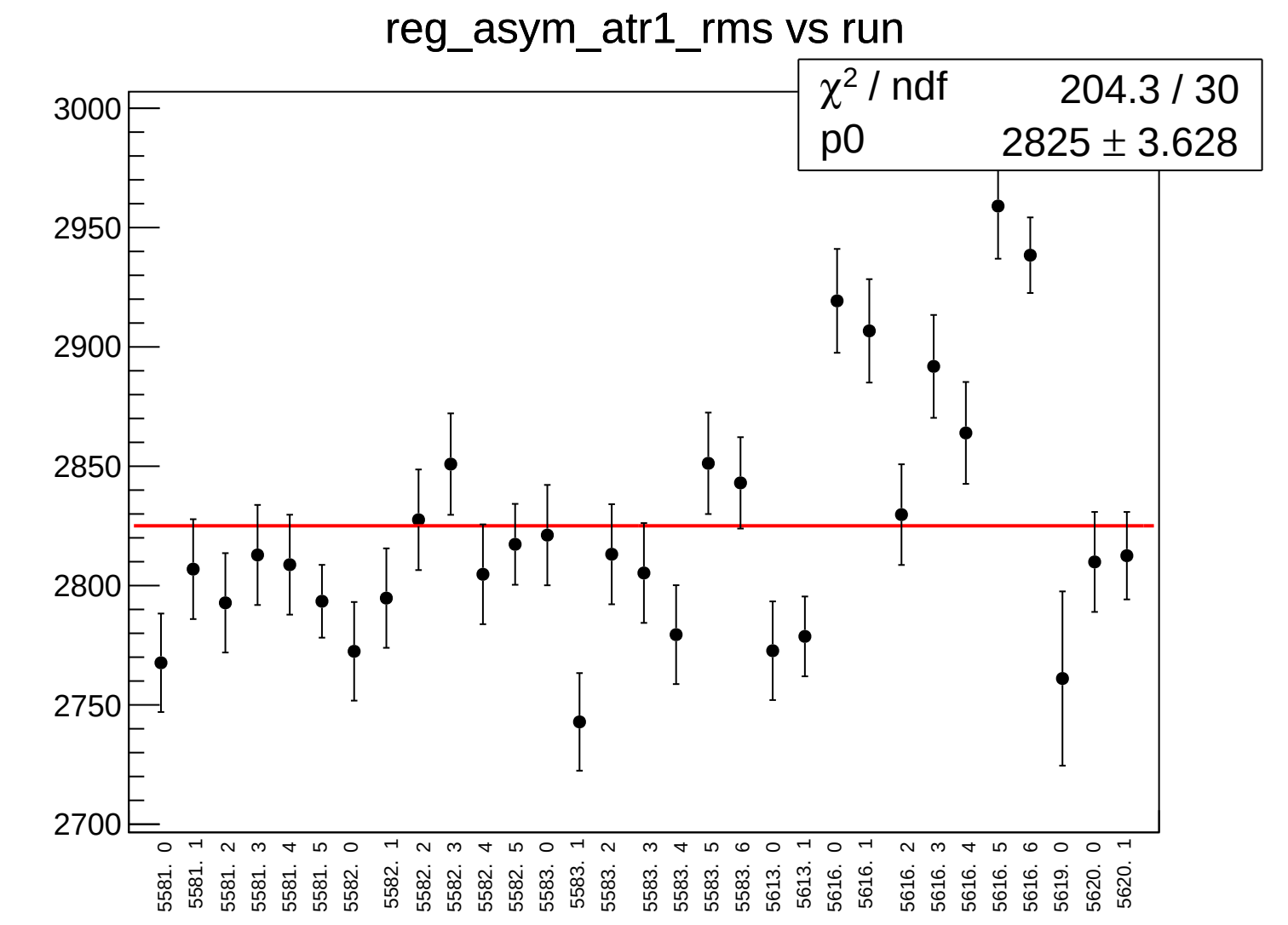

asym_atl2_mean vs run
×10^3
χ² / ndf 15.95 / 19
p0 −2258 ± 1.12e+04
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 62.4
Std Dev 69.61
1.5
1
0.5
0
−0.5
−1
−1.5

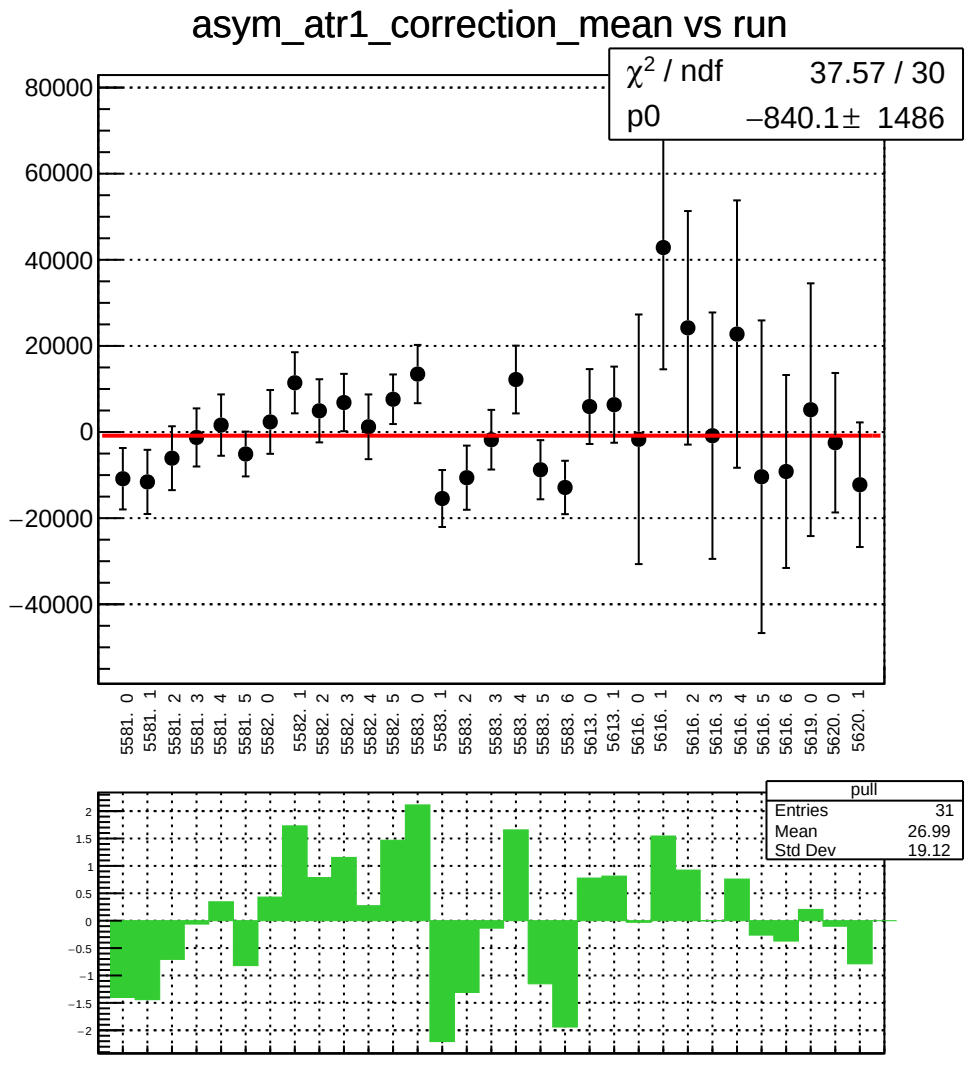

pull1D
Entries 20
Mean 0.004639
Std Dev 0.893
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

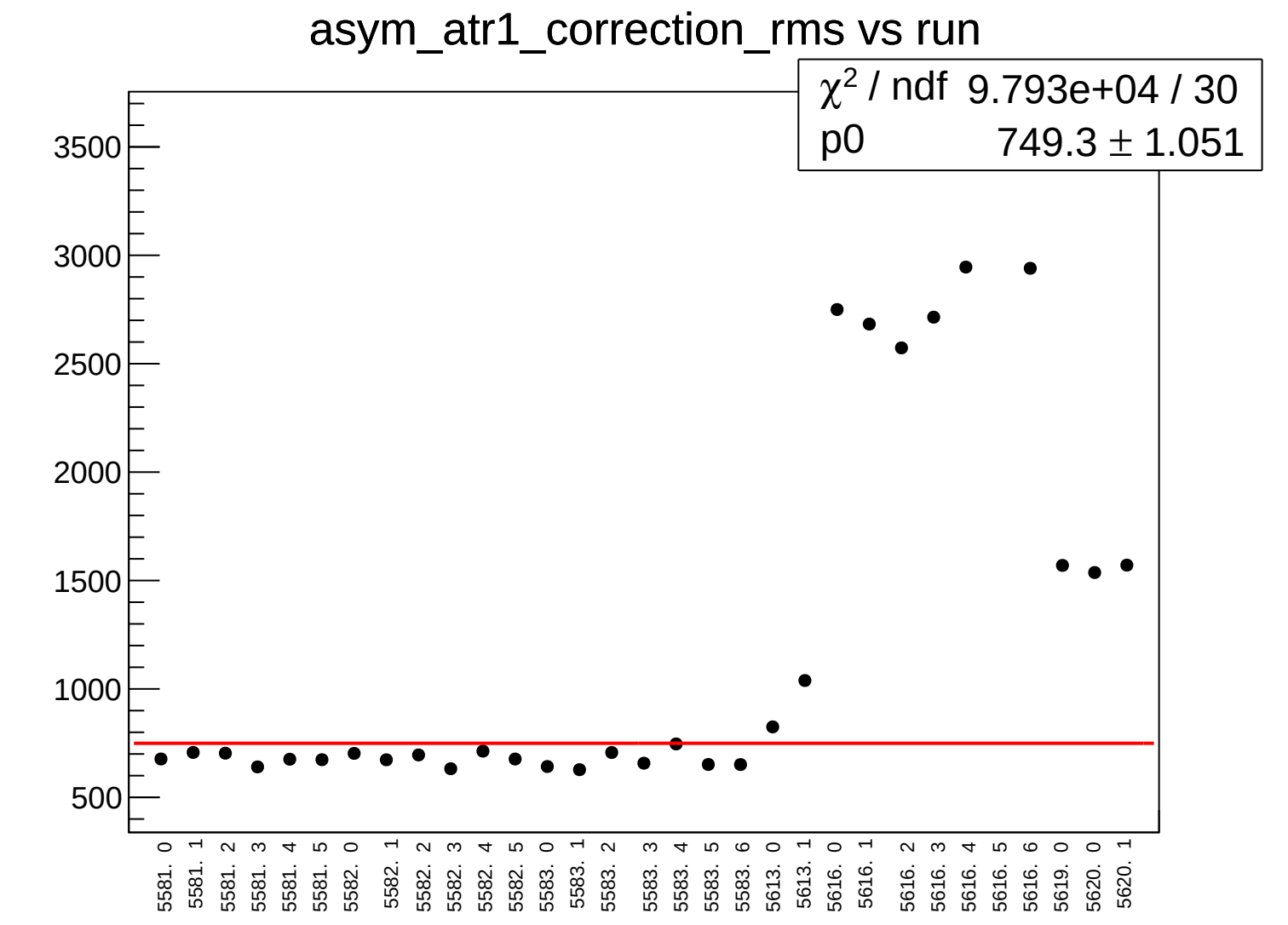

asym_atl2_rms vs run
×10^3
χ^2 / ndf 9.081e+04 / 24
p0 4952 ± 7.916
450
400
350
300
250
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

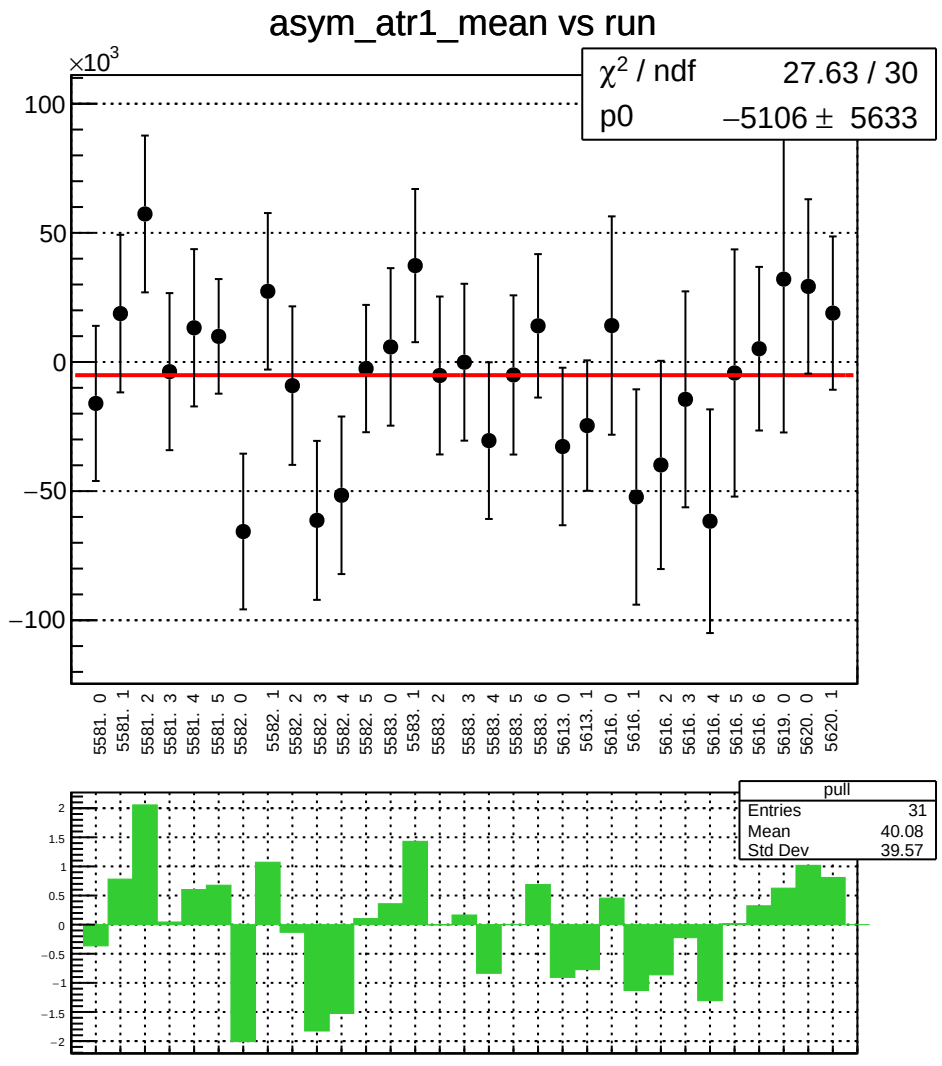

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 23.33 / 30
p0 −5248 ± 5131
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −58.7
Std Dev 43.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

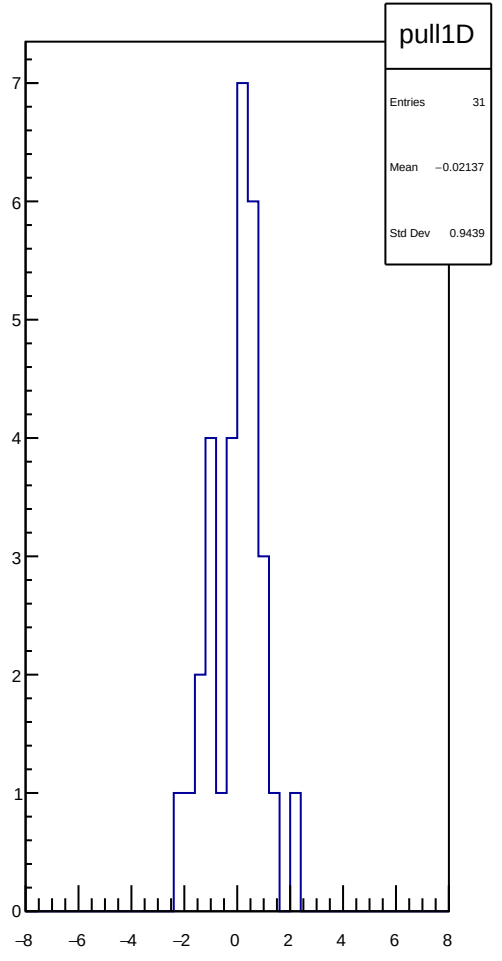

pull1D
Entries 31
Mean 0.002098
Std Dev 0.8675
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

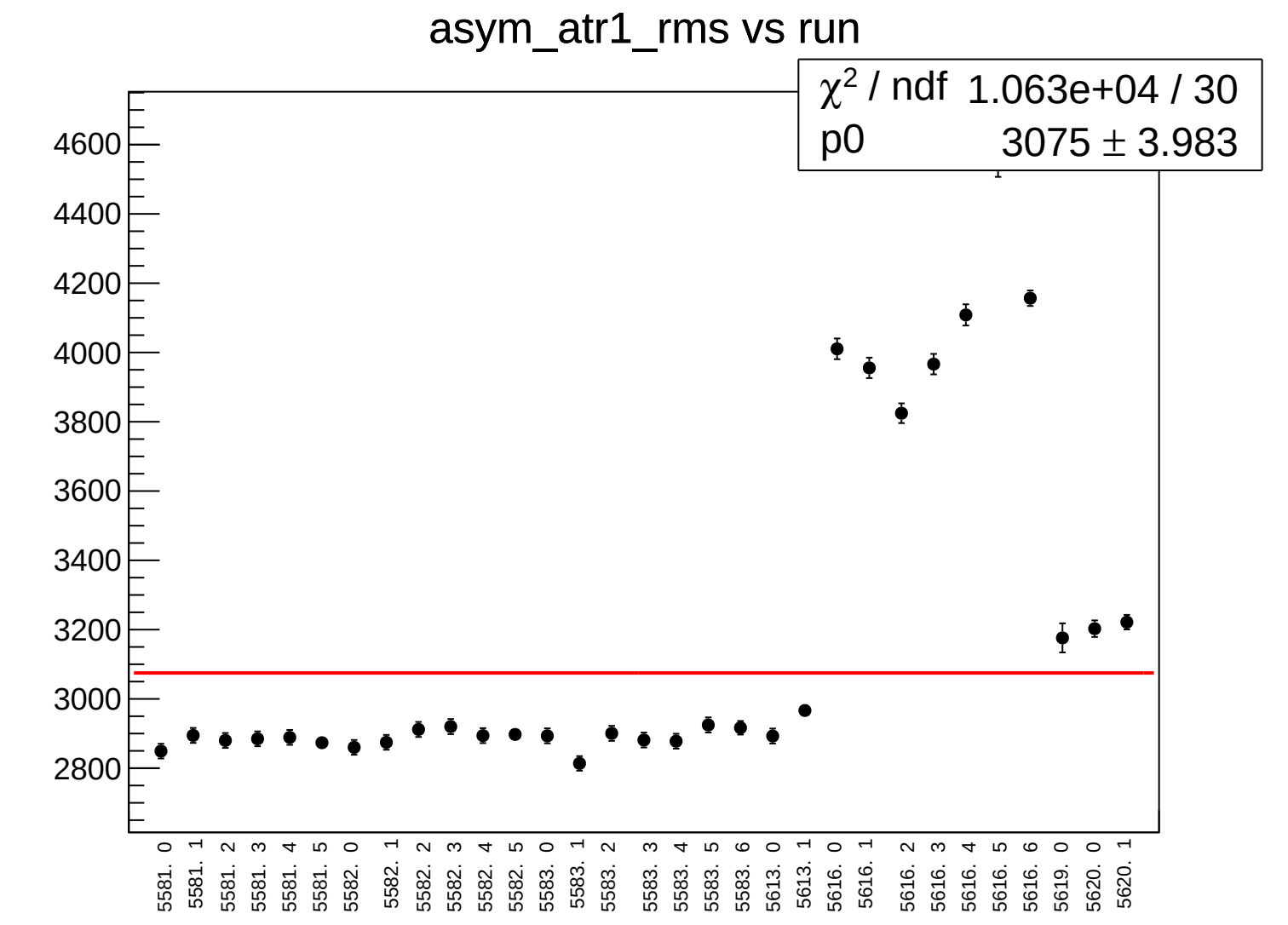

reg_asym_atr1_rms vs run
χ² / ndf 204.3 / 30
p0 2825 ± 3.628
3000
2950
2900
2850
2800
2750
2700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

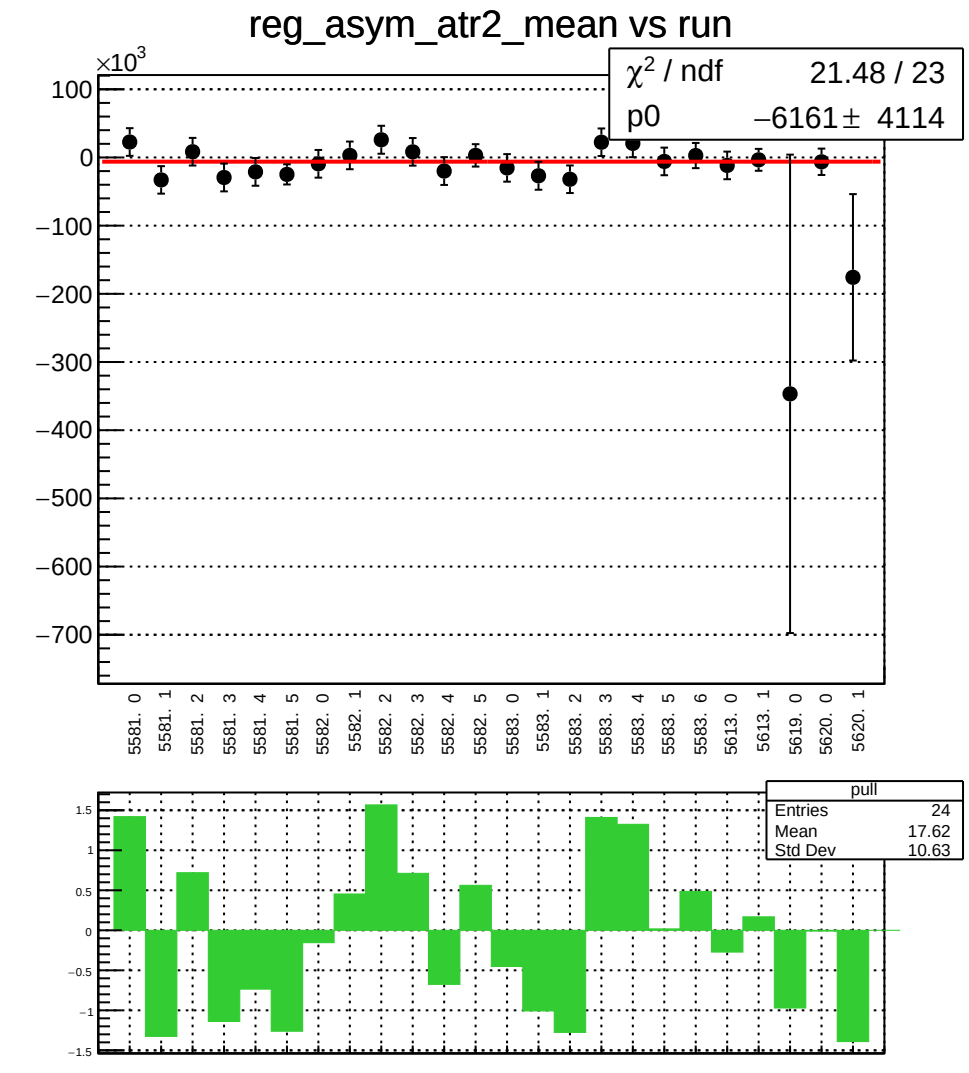

asym_atr1_correction_mean vs run
χ² / ndf 37.57 / 30
p0 −840.1± 1486
80000
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 26.99
Std Dev 19.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.07281
Std Dev 1.098
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

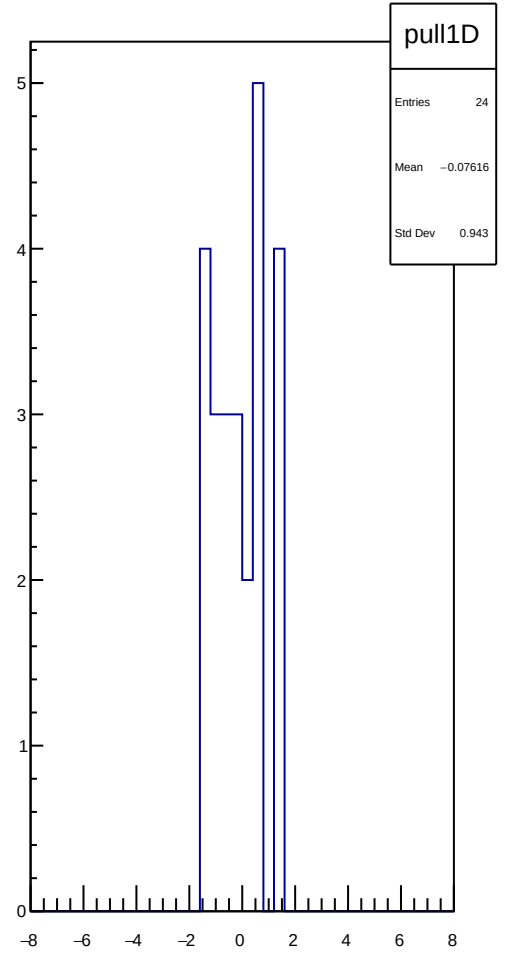

asym_atr1_correction_rms vs run
χ² / ndf 9.793e+04 / 30
p0 749.3 ± 1.051
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

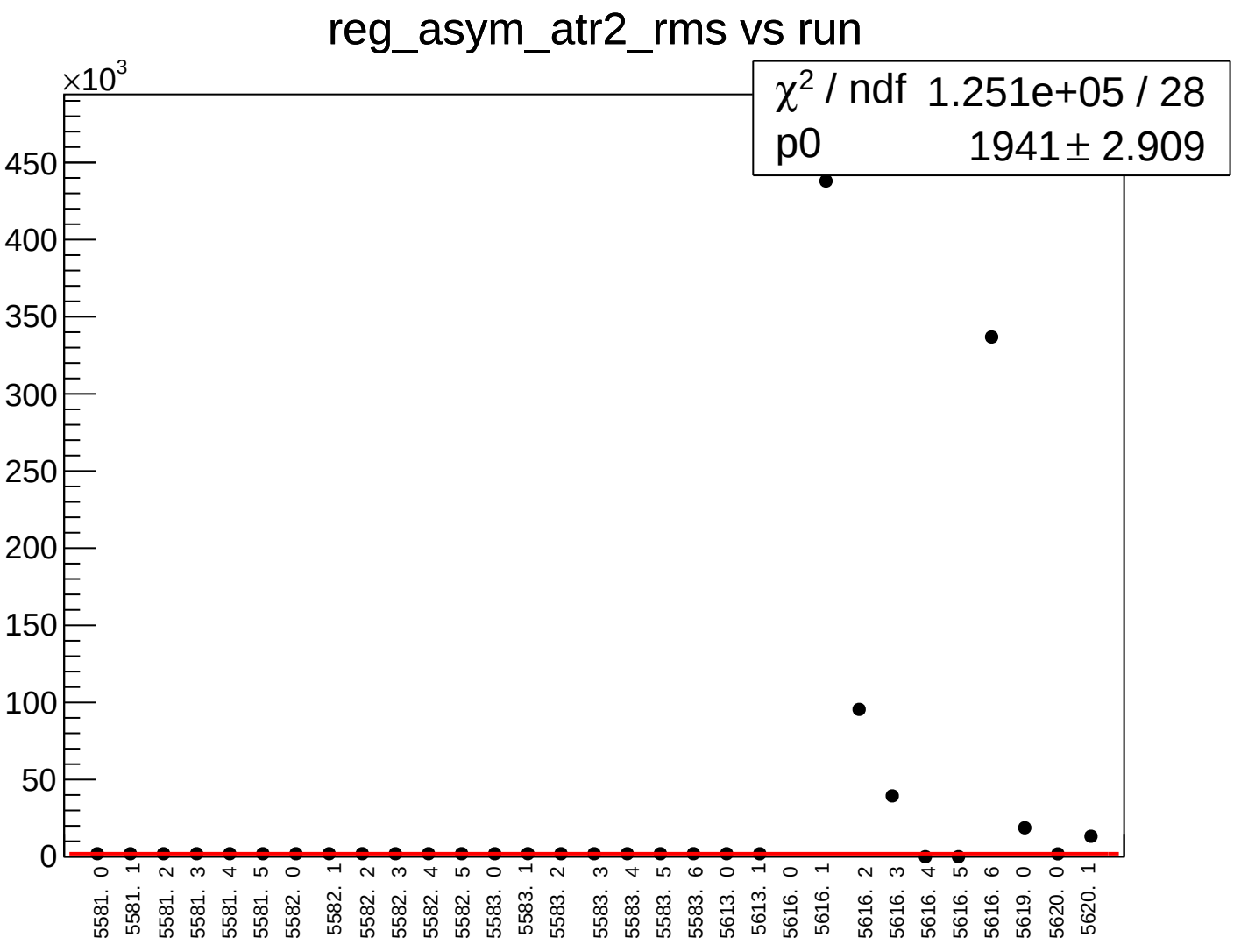

asym_atr1_mean vs run
×10^3
χ² / ndf 27.63 / 30
p0 −5106 ± 5633
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.08
Std Dev 39.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

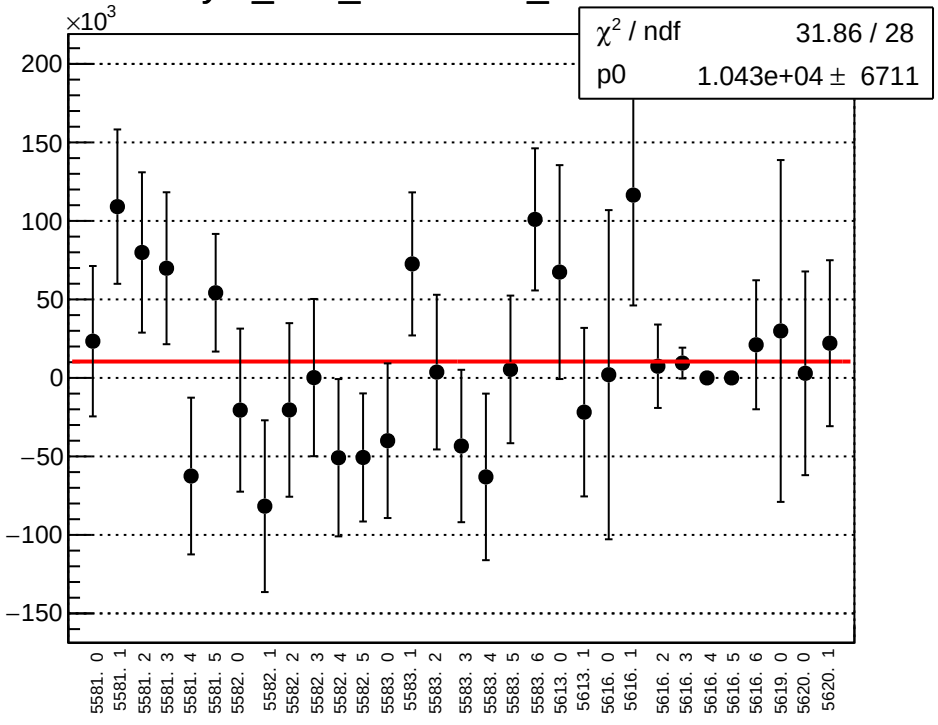

pull1D
Entries 31
Mean −0.02137
Std Dev 0.9439
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

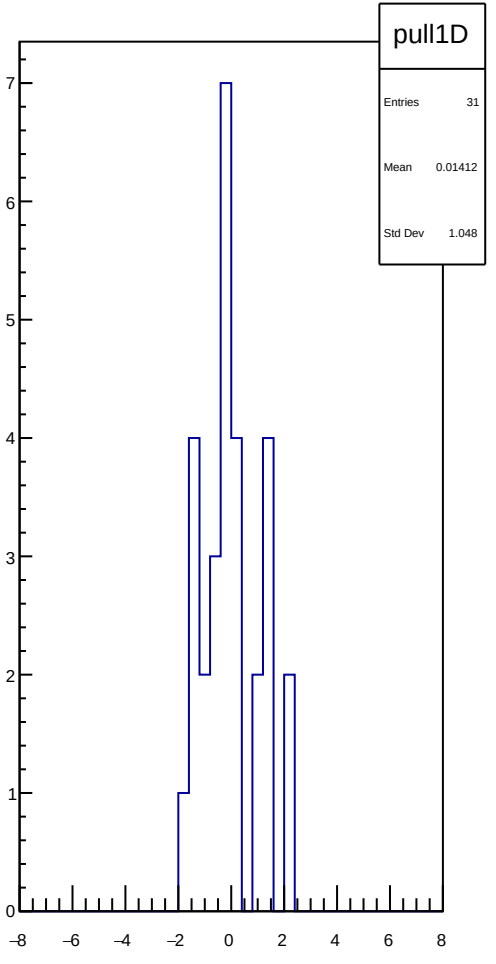

asym_atr1_rms vs run
χ² / ndf 1.063e+04 / 30
p0 3075 ± 3.983
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

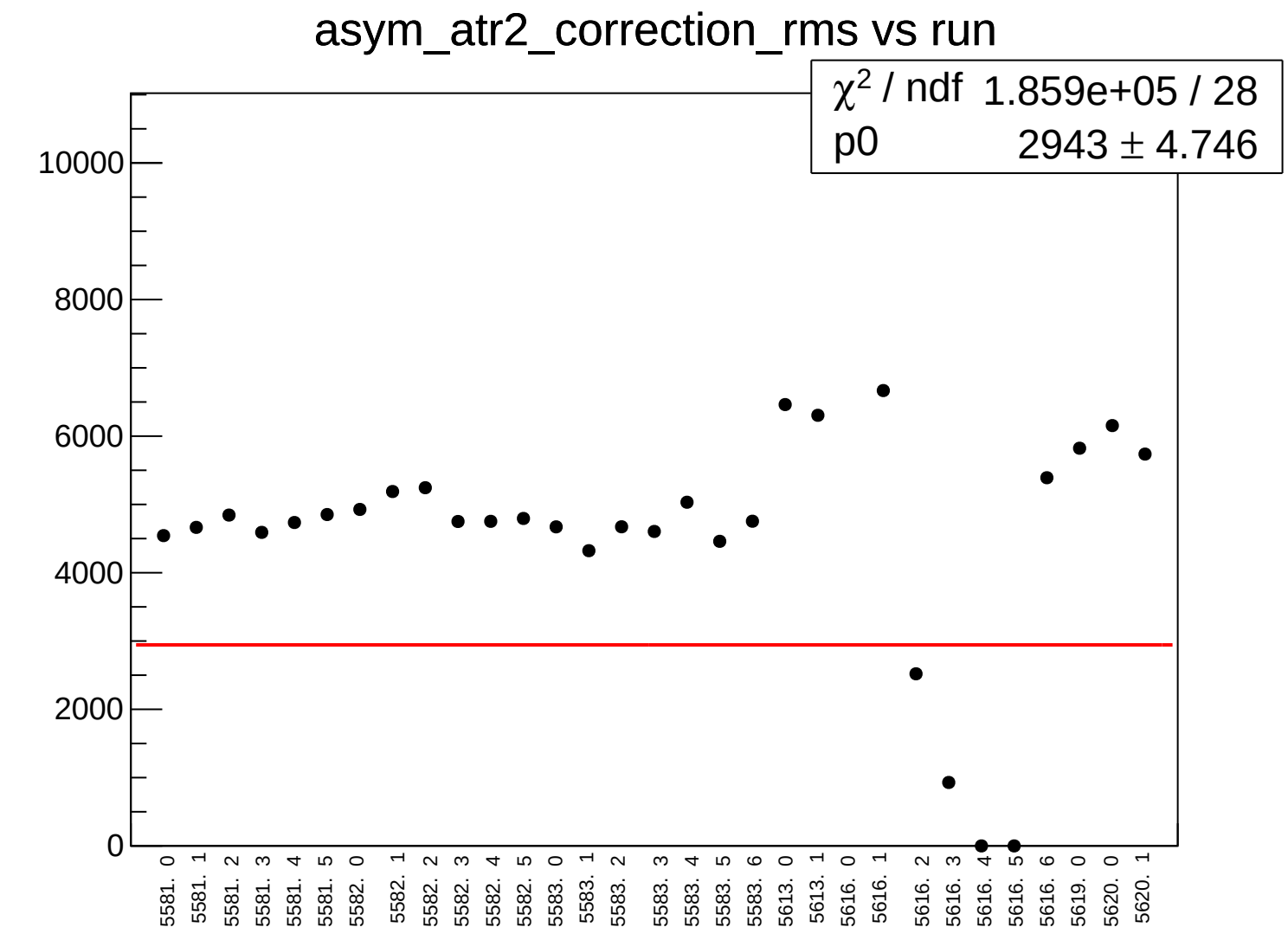

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 21.48 / 23
p0 −6161 ± 4114
100
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 17.62
Std Dev 10.63
1.5
1
0.5
0
−0.5
−1
−1.5

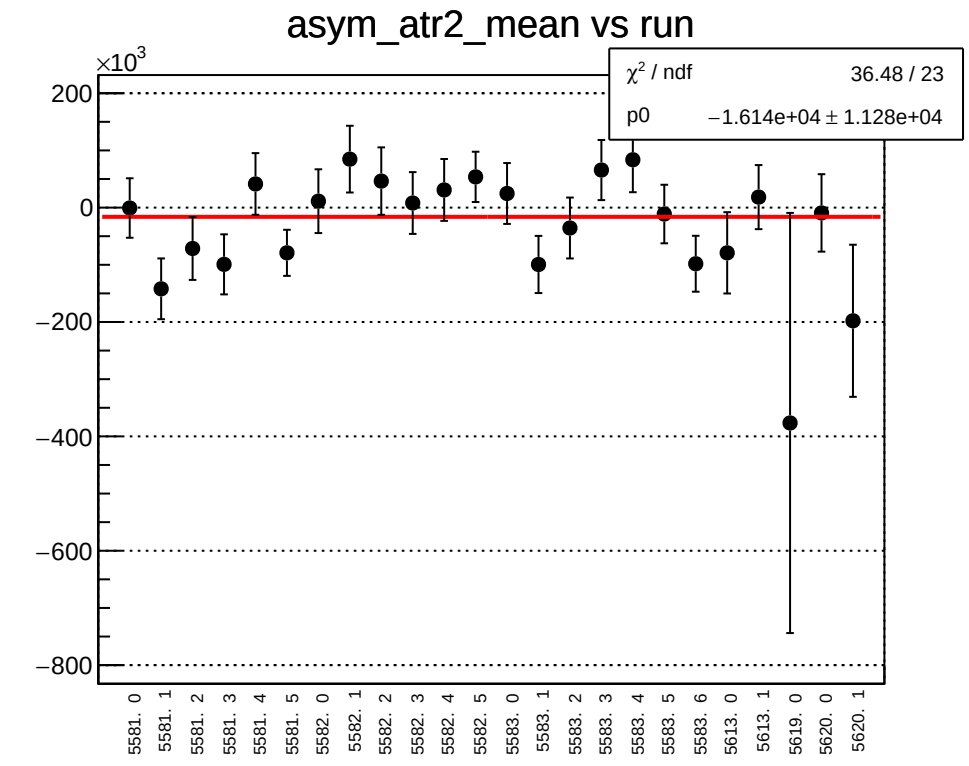

pull1D
Entries 24
Mean −0.07616
Std Dev 0.943
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

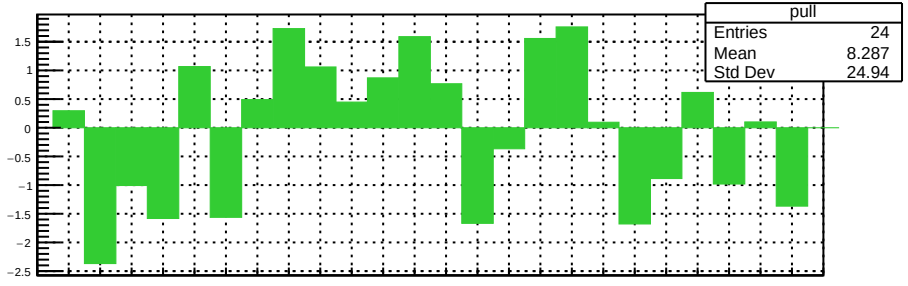

reg_asym_atr2_rms vs run
×10^3
χ^2 / ndf 1.251e+05 / 28
p0 1941 ± 2.909
450
400
350
300
250
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

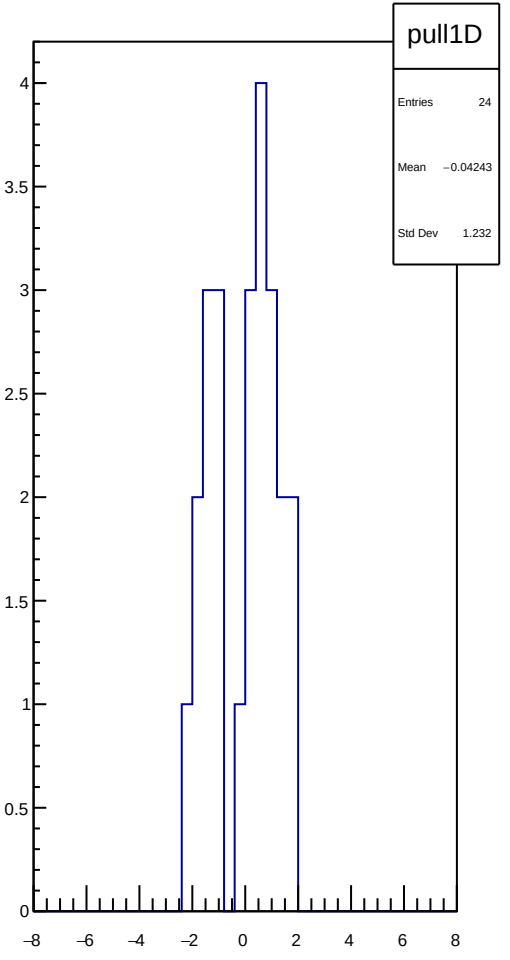

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 31.86 / 28
p0 1.043e+04 ± 6711
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

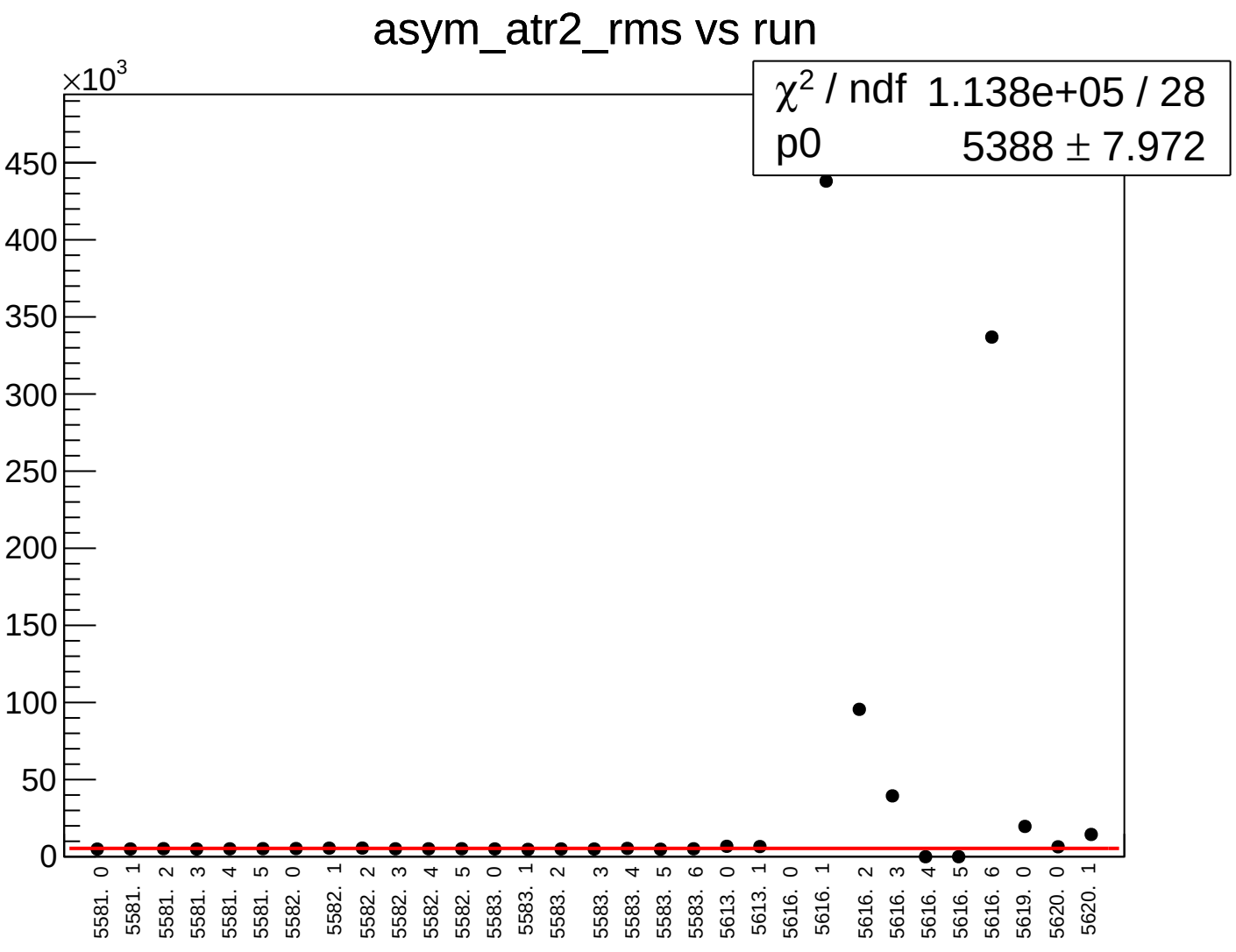

pull1D
Entries 31
Mean 0.01412
Std Dev 1.048
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

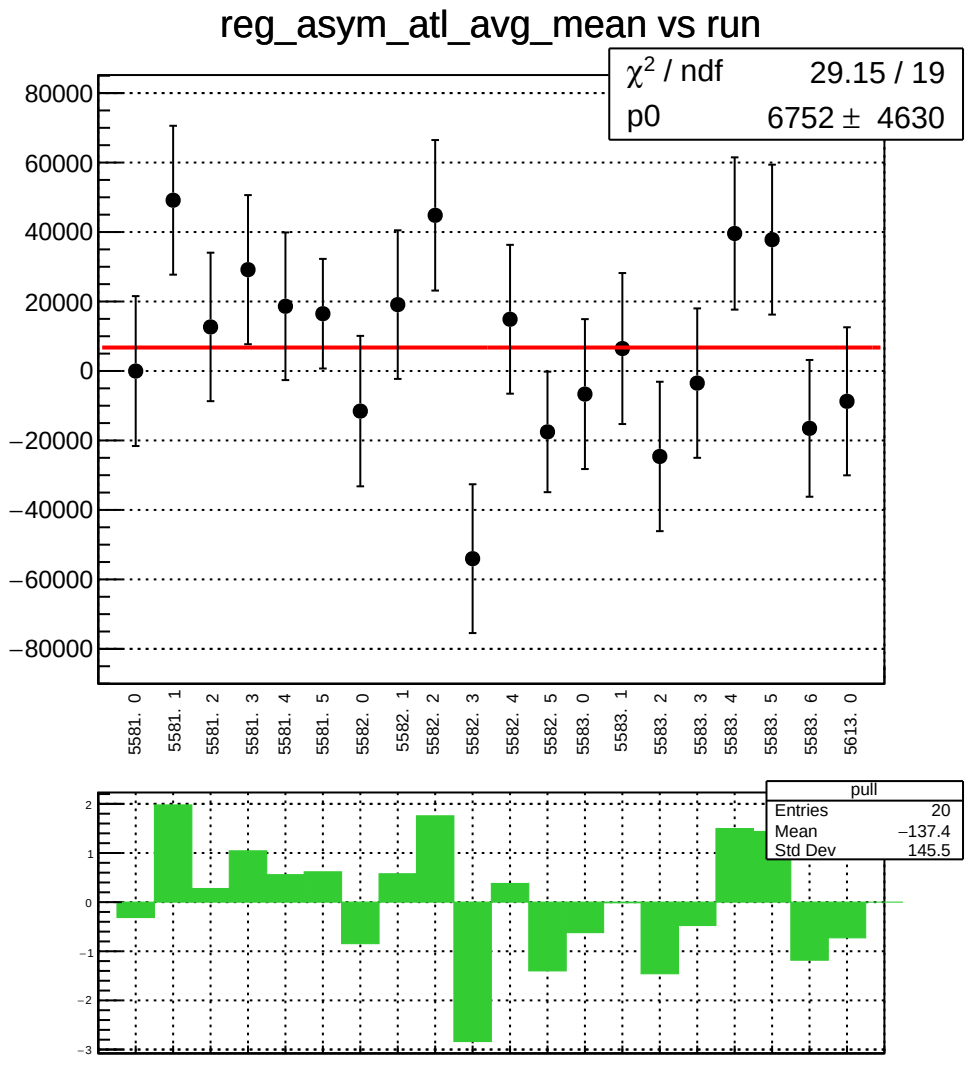

asym_atr2_correction_rms vs run
χ² / ndf 1.859e+05 / 28
p0 2943 ± 4.746
10000
8000
6000
4000
2000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

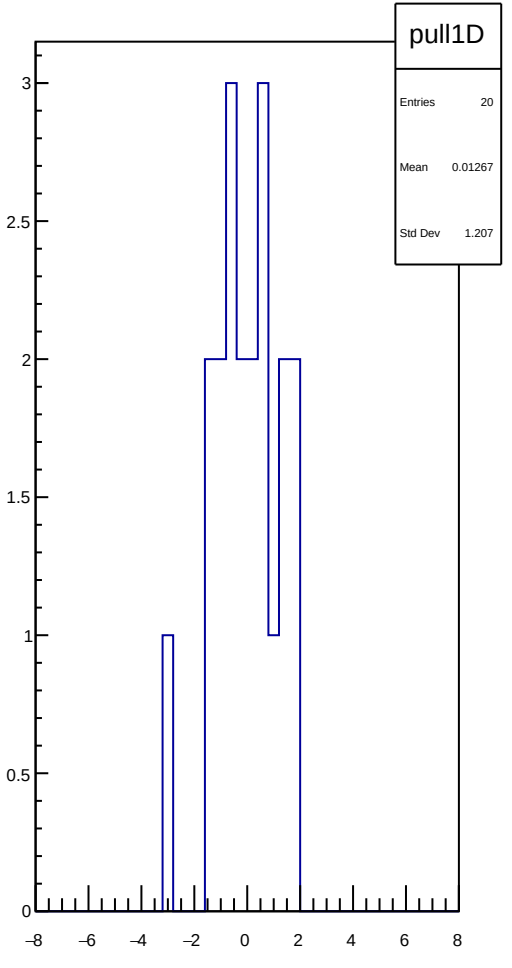

asym_atr2_mean vs run
×10^3
χ² / ndf 36.48 / 23
p0 −1.614e+04 ± 1.128e+04
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1

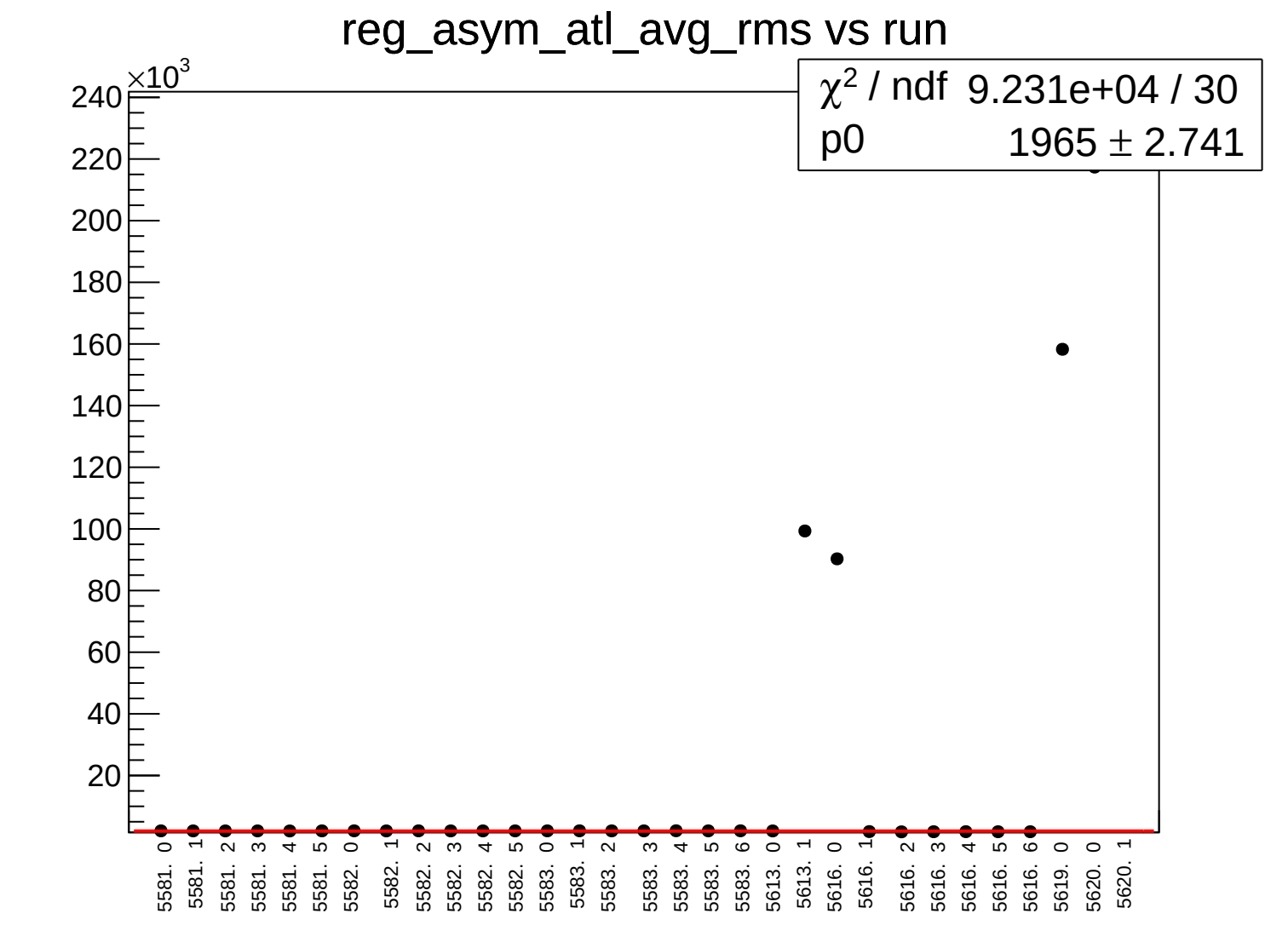

pull
Entries 24
Mean 8.287
Std Dev 24.94
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

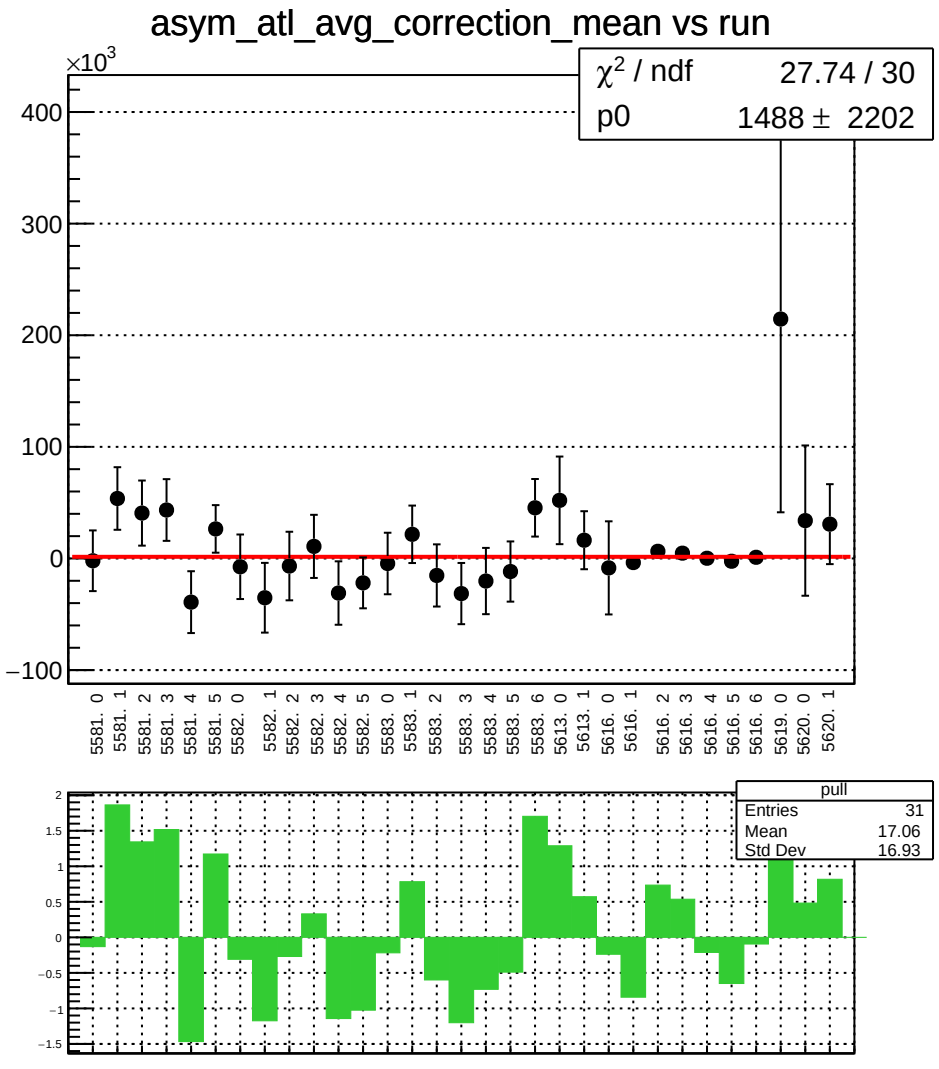

pull1D
Entries 24
Mean −0.04243
Std Dev 1.232
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

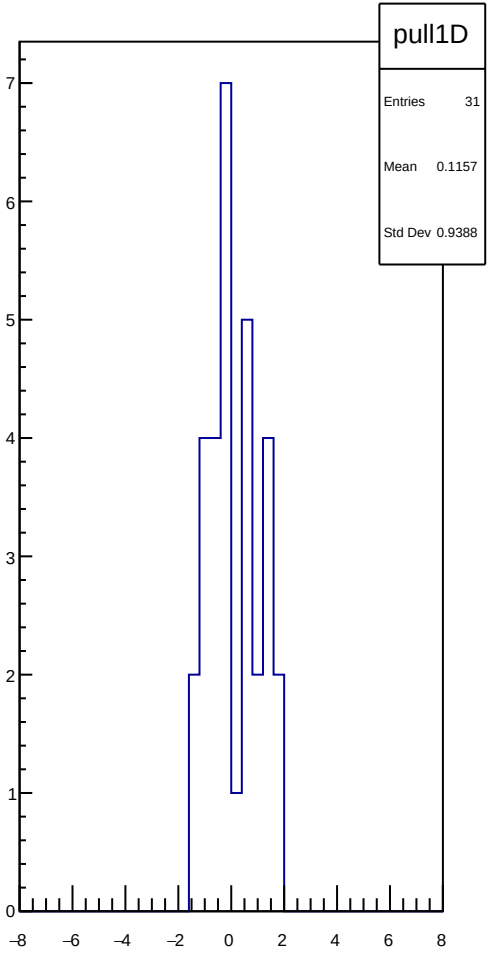

asym_atr2_rms vs run
×10^3
χ^2 / ndf 1.138e+05 / 28
p0 5388 ± 7.972
450
400
350
300
250
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

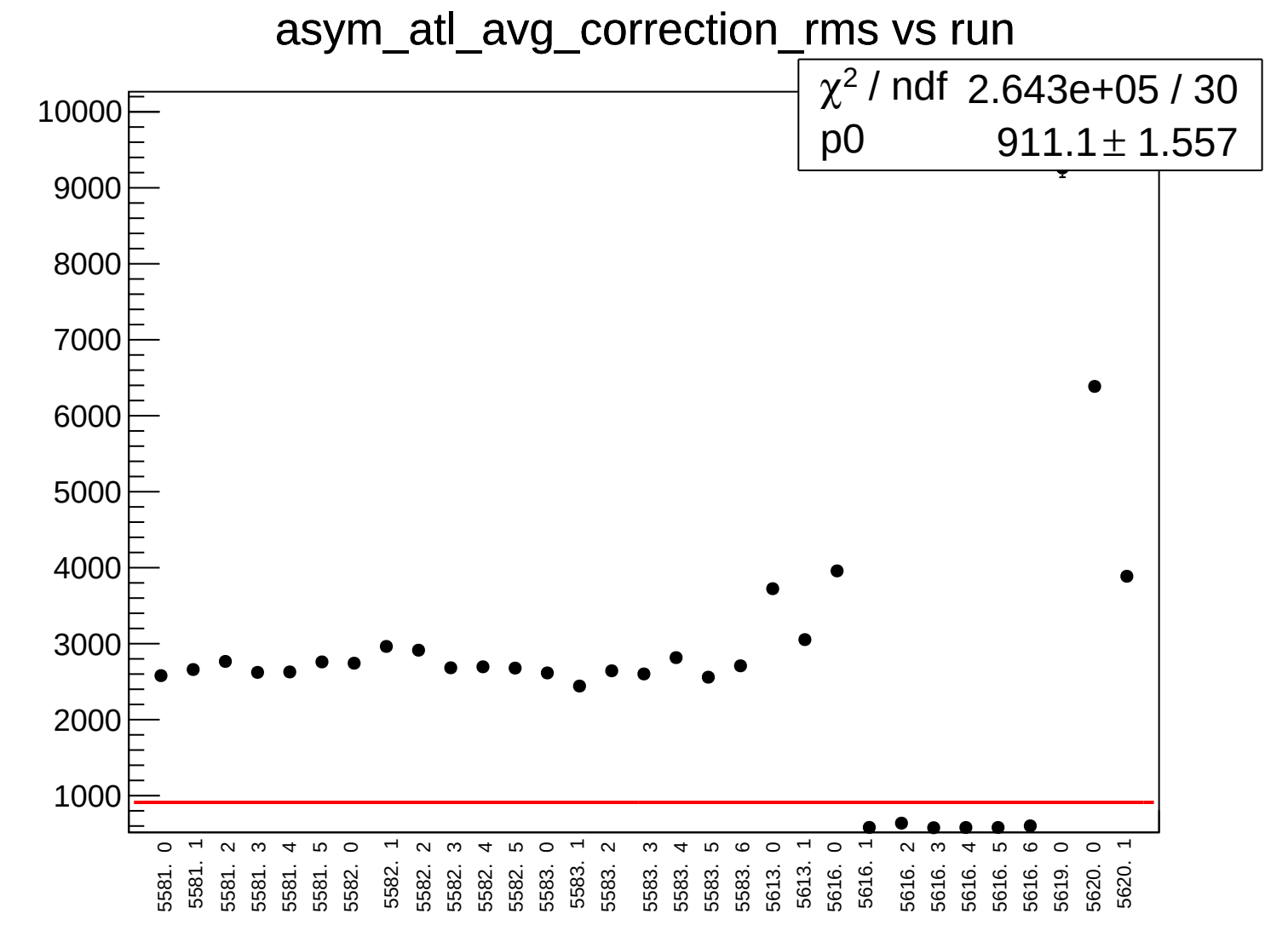

reg_asym_atl_avg_mean vs run
χ² / ndf 29.15 / 19
p0 6752 ± 4630
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean −137.4
Std Dev 145.5
2
1
0
−1
−2
−3

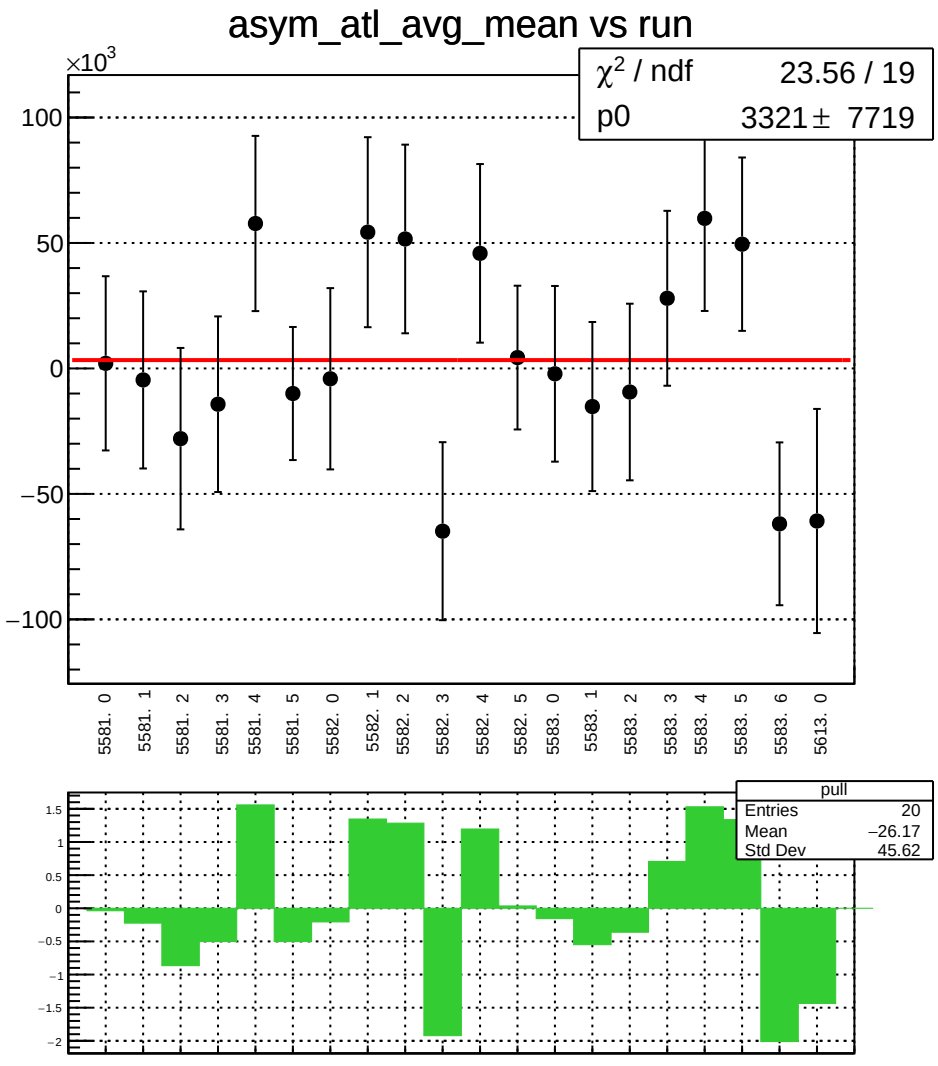

pull1D
Entries 20
Mean 0.01267
Std Dev 1.207
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

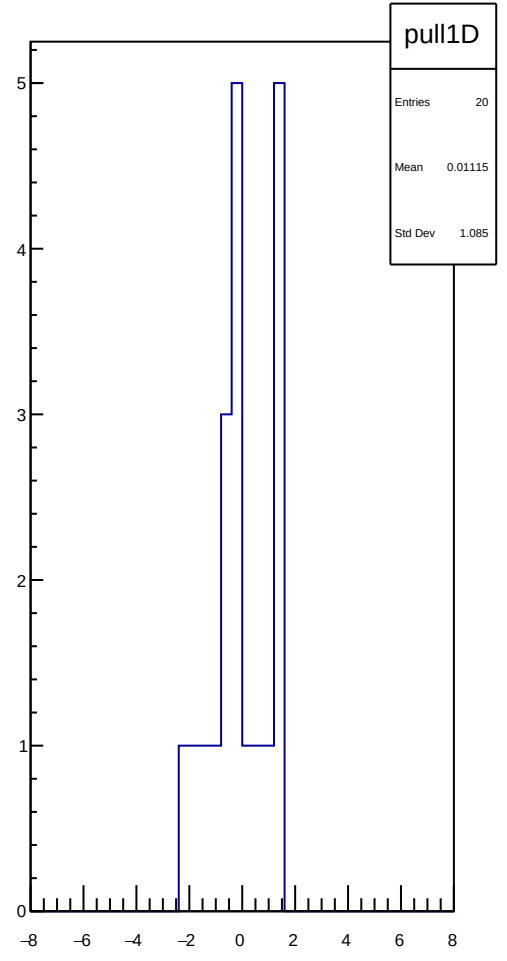

reg_asym_atl_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.231e+04 / 30
p0 1965 ± 2.741
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

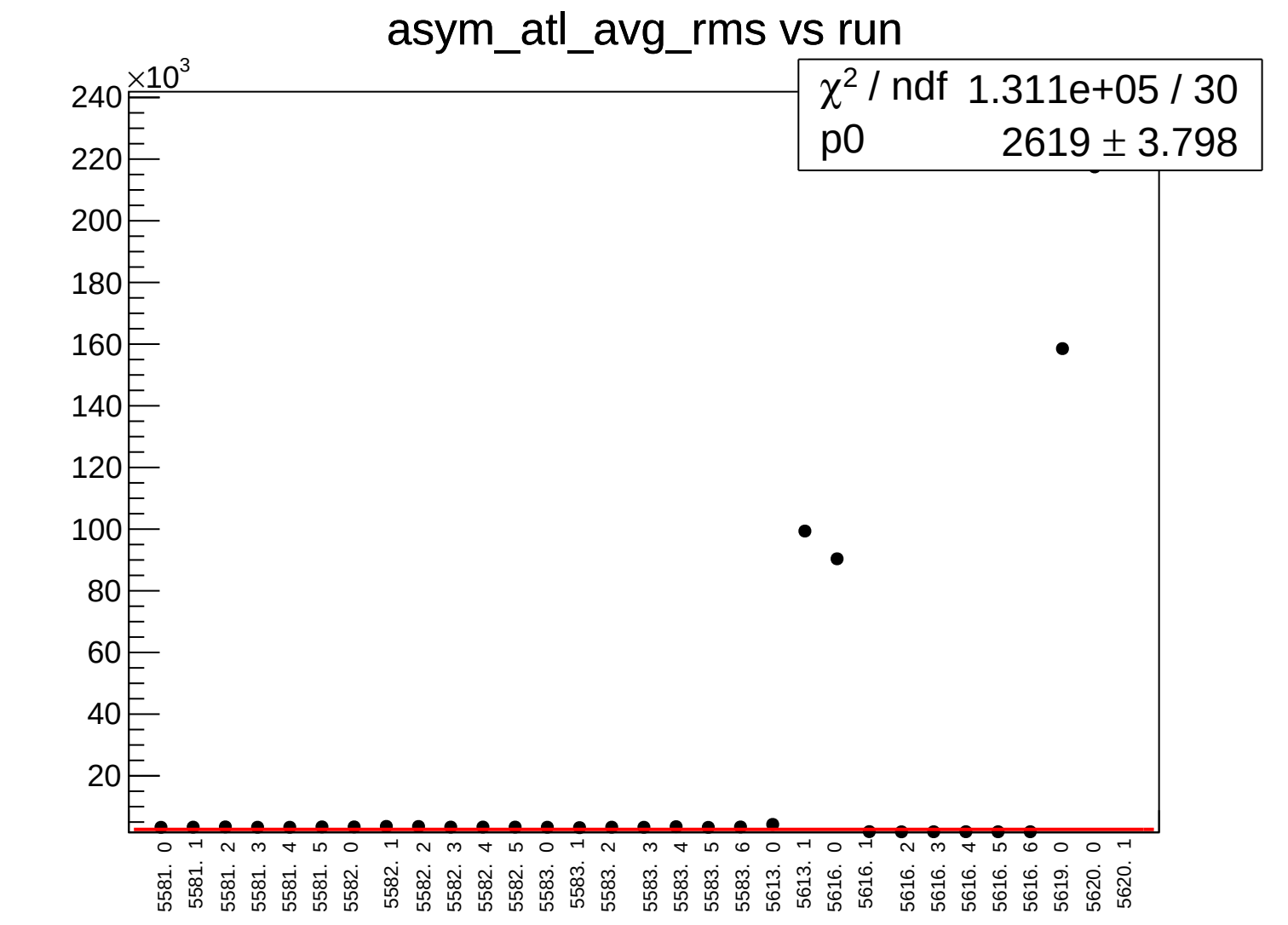

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 27.74 / 30
p0 1488 ± 2202
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.06
Std Dev 16.93
2
1.5
1
0.5
0
−0.5
−1
−1.5

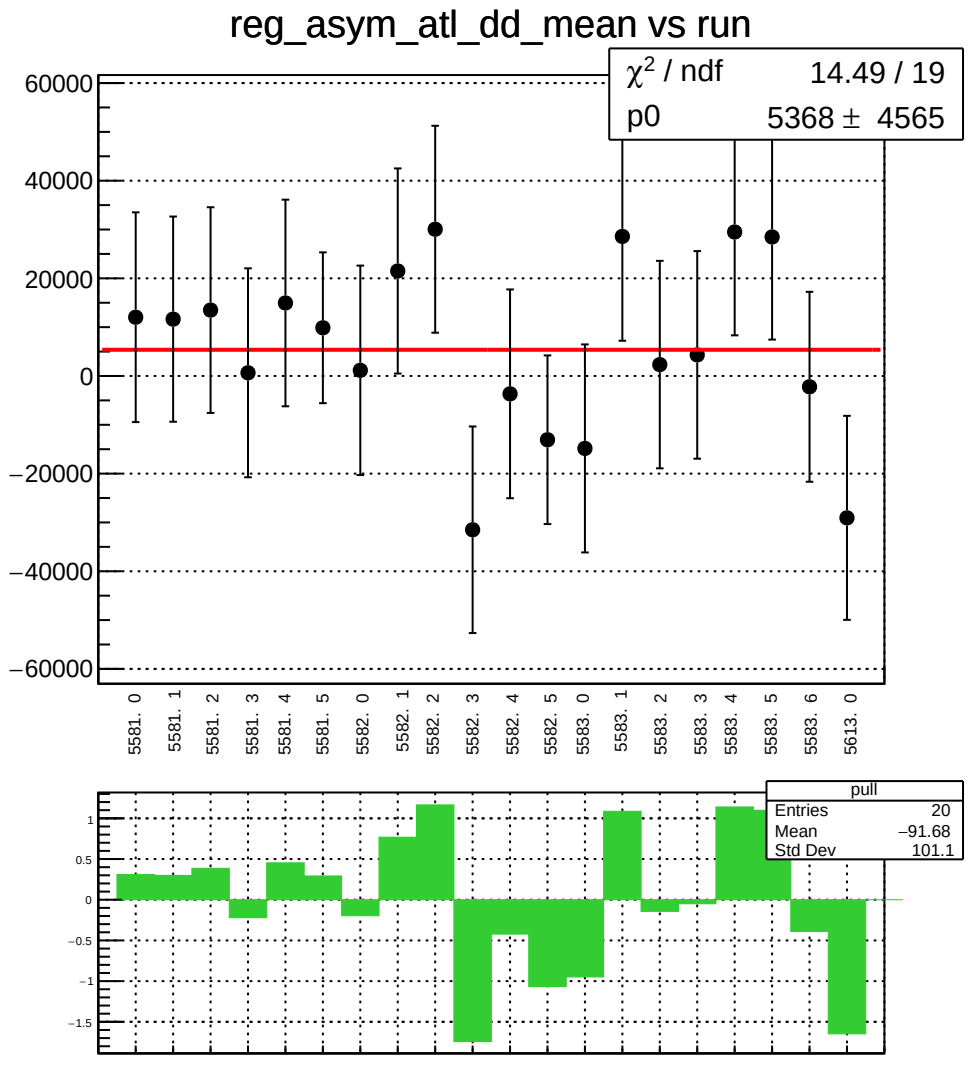

pull1D
Entries 31
Mean 0.1157
Std Dev 0.9388
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

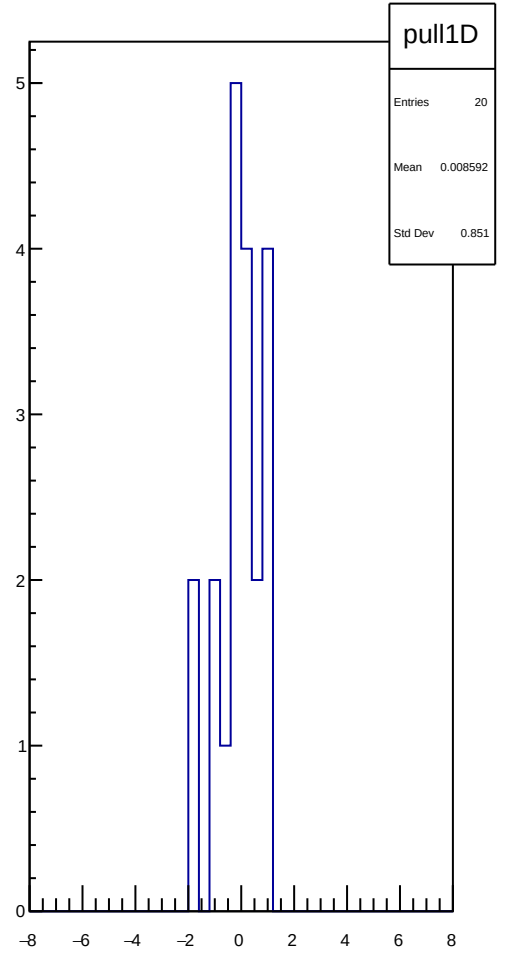

asym_atl_avg_correction_rms vs run
χ² / ndf 2.643e+05 / 30
p0 911.1 ± 1.557
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

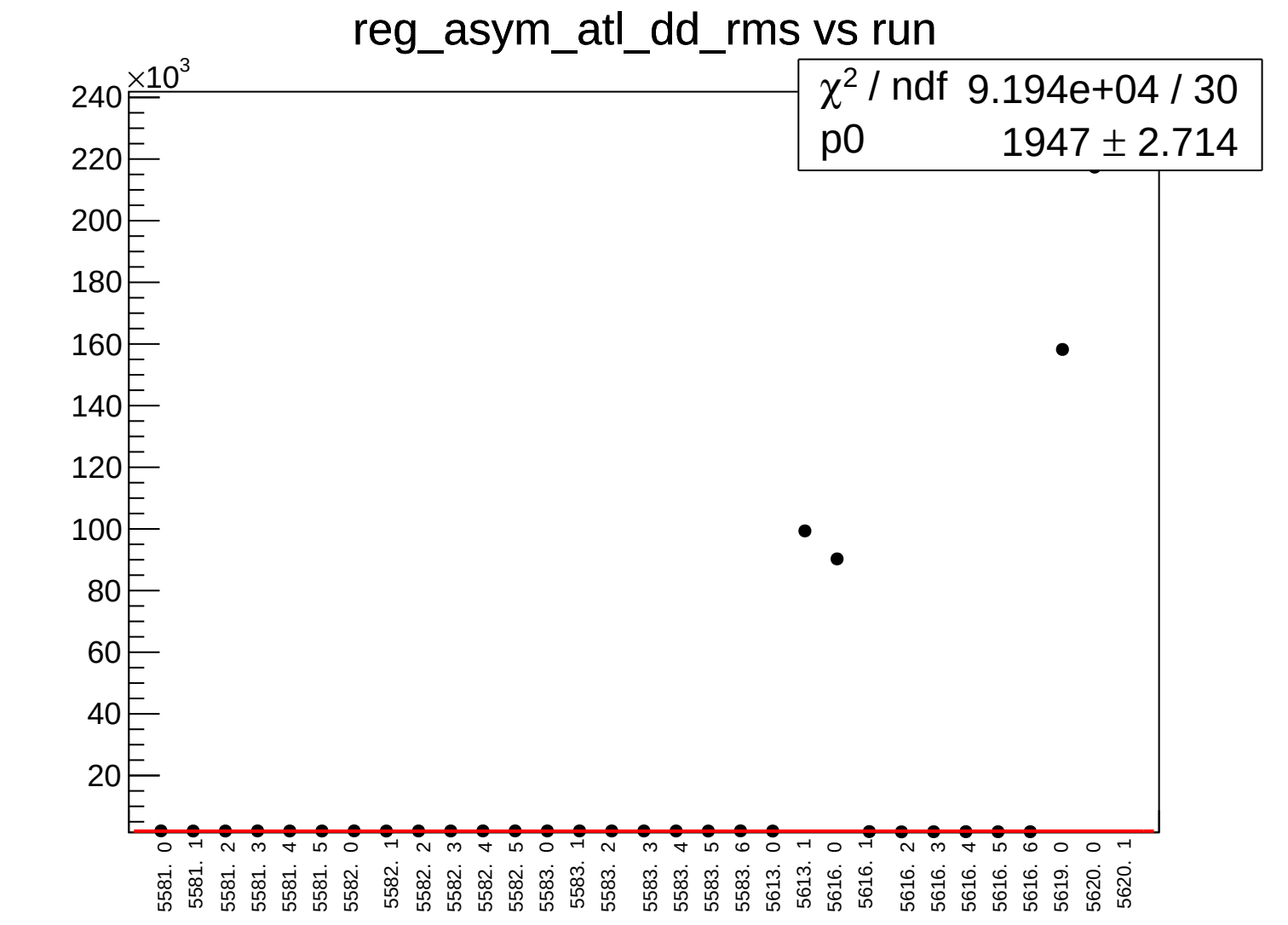

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 23.56 / 19
p0 3321 ± 7719
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean −26.17
Std Dev 45.62
1.5
1
0.5
0
−0.5
−1
−1.5
−2

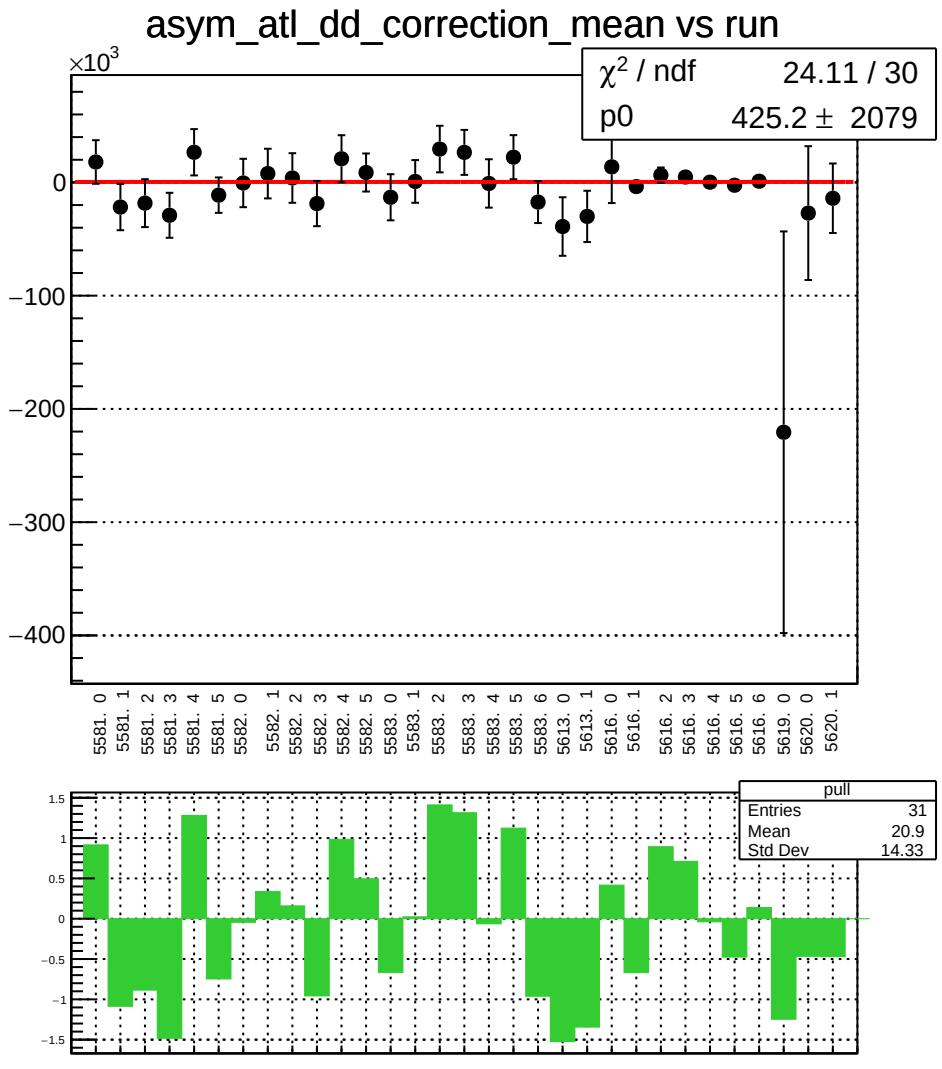

pull1D
Entries 20
Mean 0.01115
Std Dev 1.085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

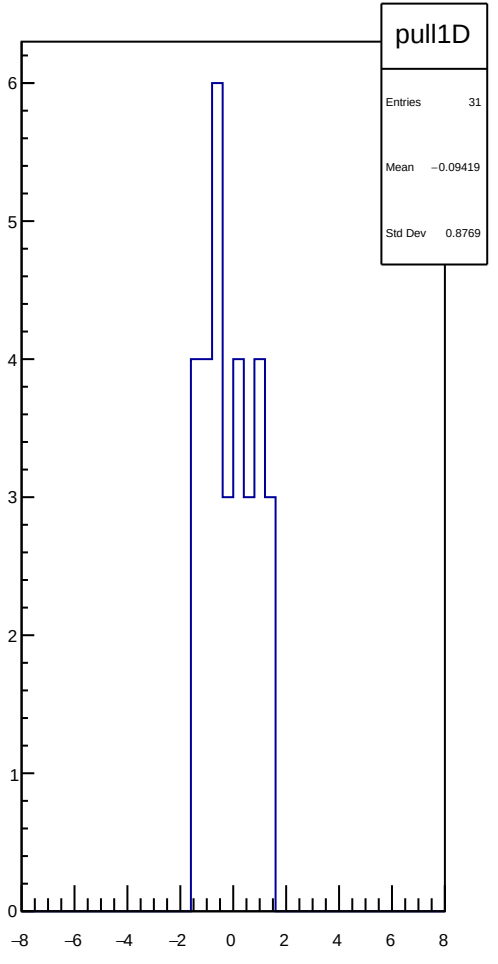

asym_atl_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.311e+05 / 30
p0 2619 ± 3.798
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

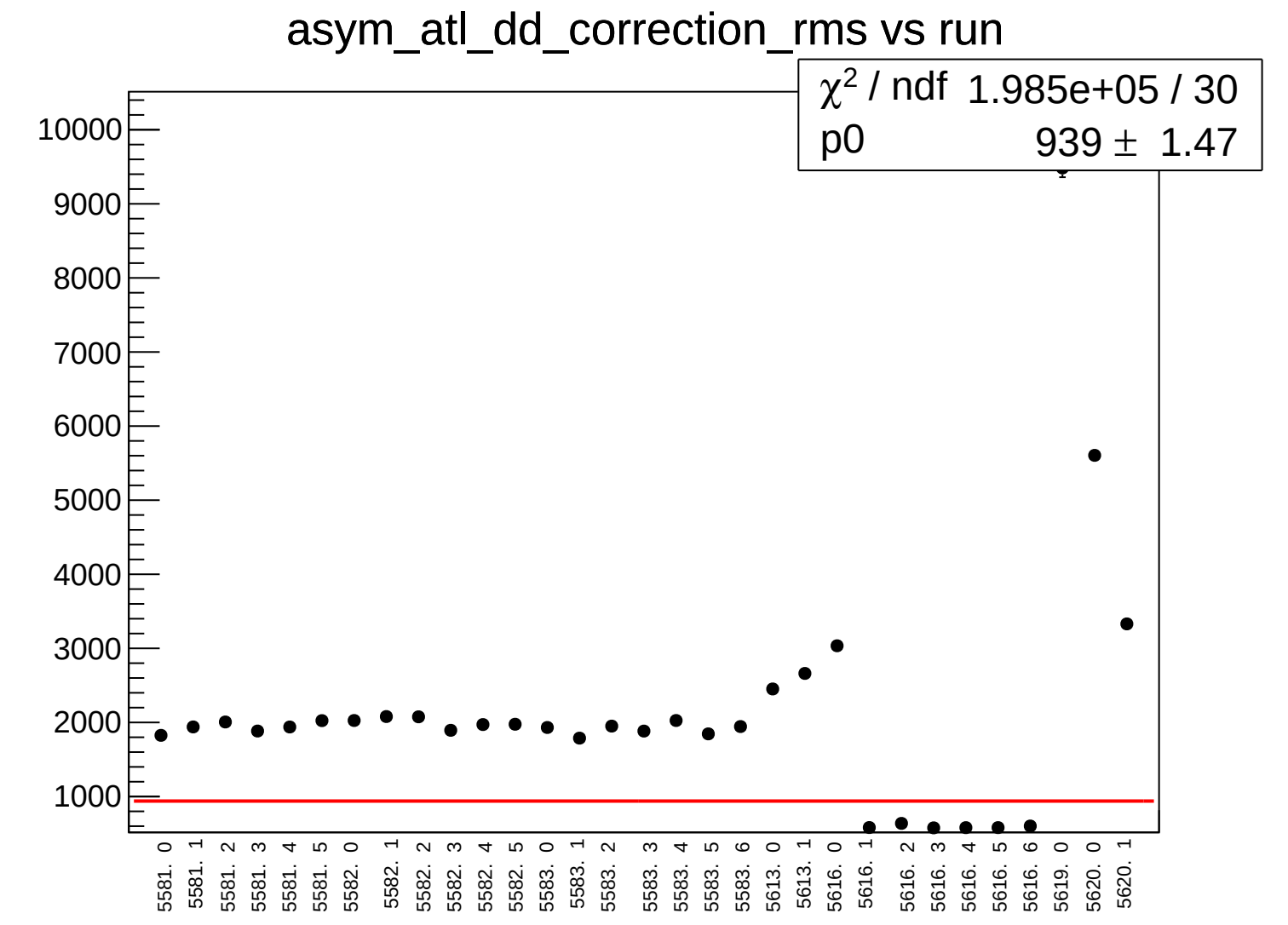

reg_asym_atl_dd_mean vs run
χ² / ndf 14.49 / 19
p0 5368 ± 4565
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean −91.68
Std Dev 101.1
1
0.5
0
−0.5
−1
−1.5

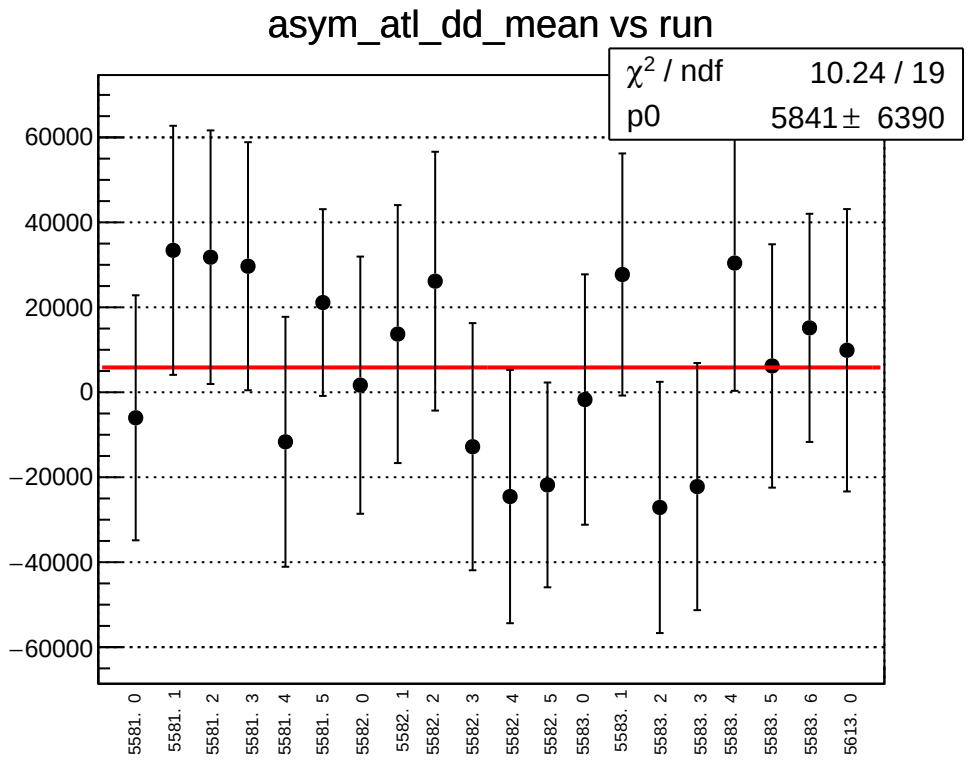

pull1D
Entries 20
Mean 0.008592
Std Dev 0.851
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

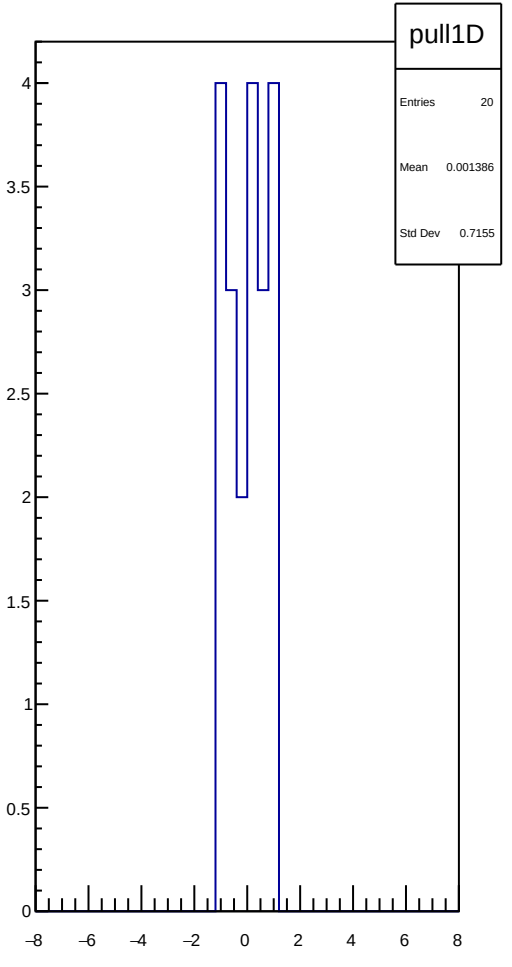

reg_asym_atl_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.194e+04 / 30
p0 1947 ± 2.714
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

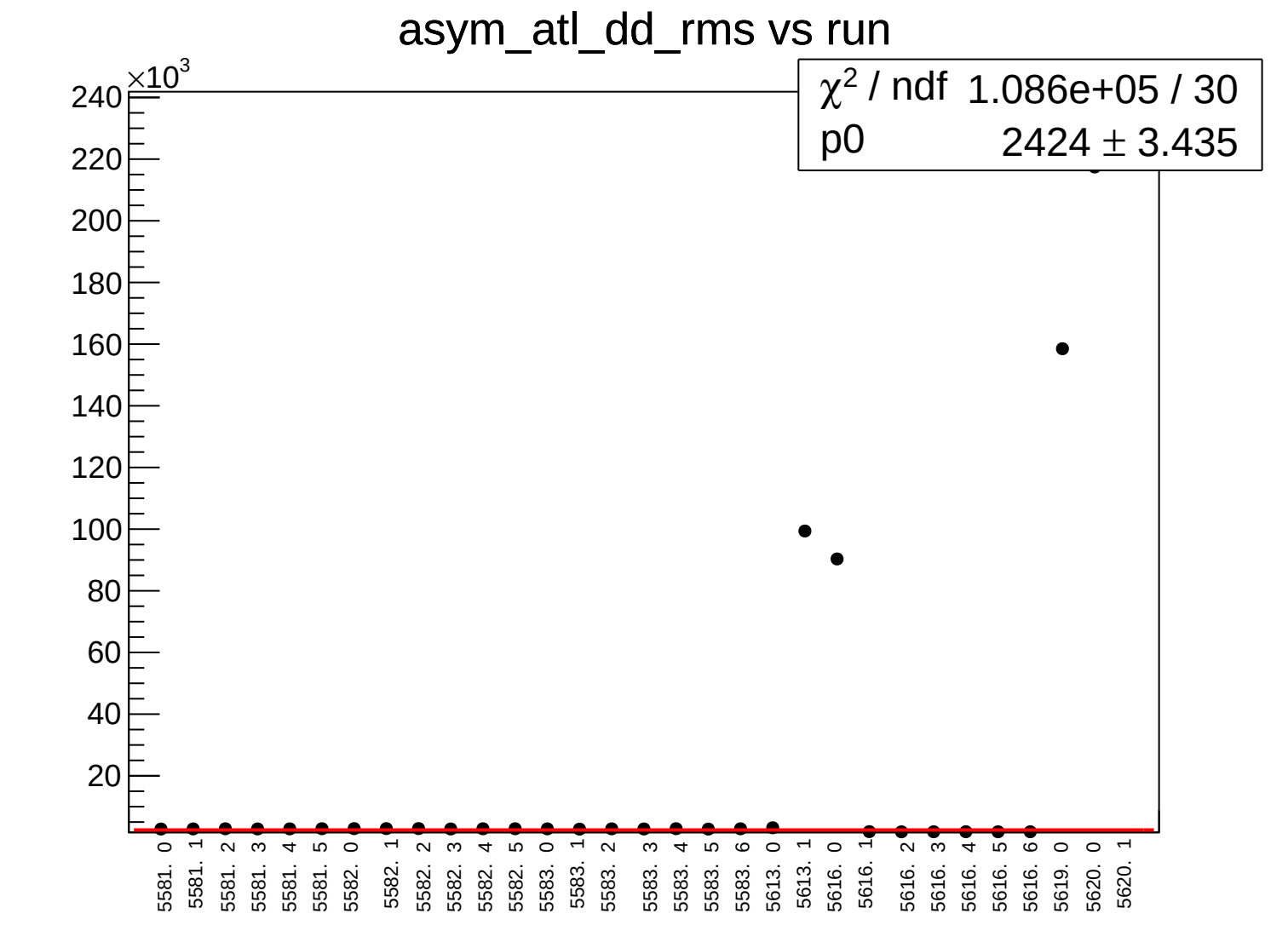

asym_atl_dd_correction_mean vs run
×10^3
χ^2 / ndf 24.11 / 30
p0 425.2 ± 2079
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.9
Std Dev 14.33
1.5
1
0.5
0
−0.5
−1
−1.5

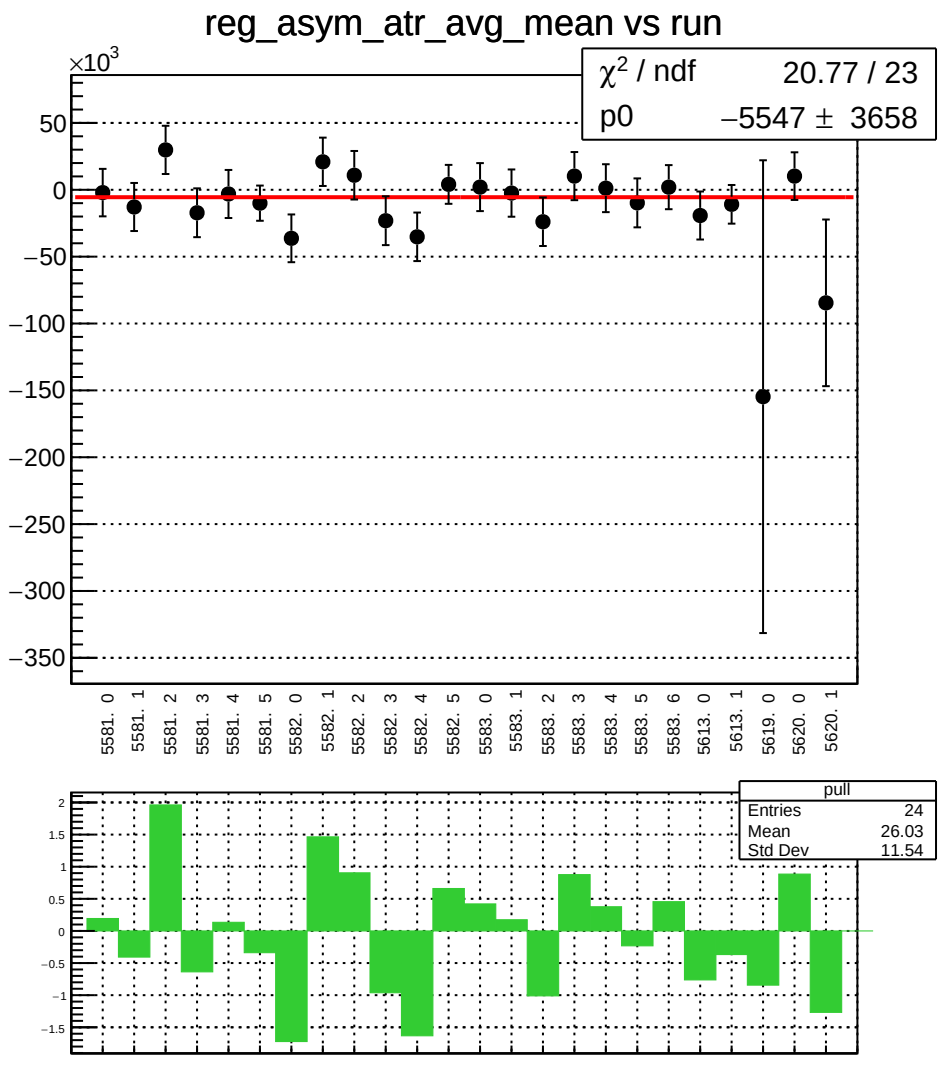

pull1D
Entries 31
Mean −0.09419
Std Dev 0.8769
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

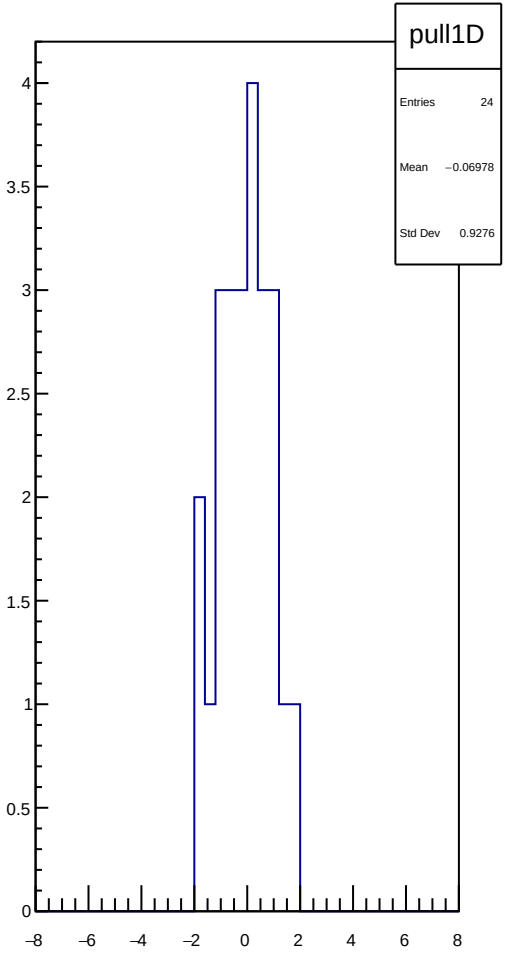

asym_atl_dd_correction_rms vs run
χ² / ndf 1.985e+05 / 30
p0 939 ± 1.47
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

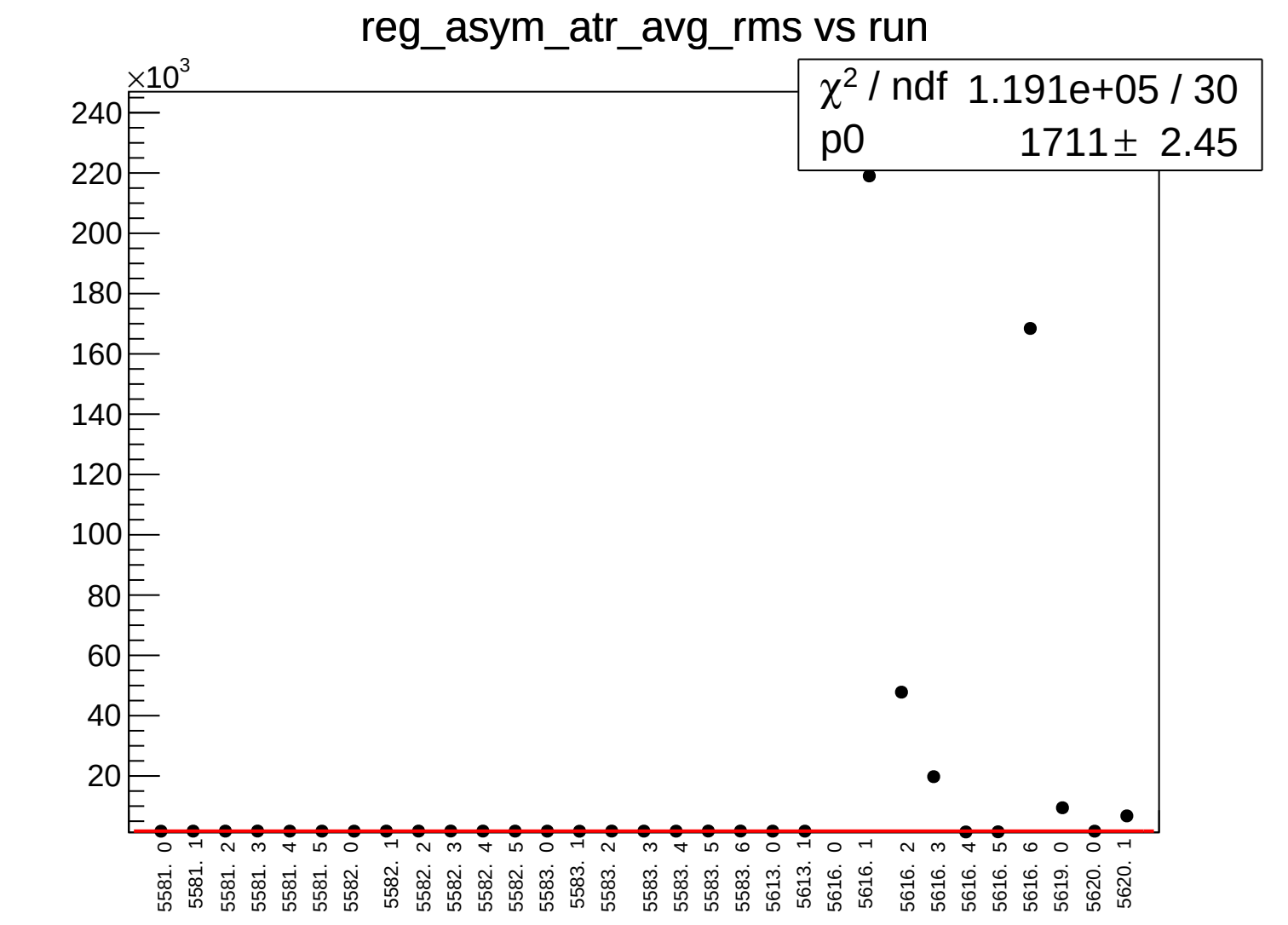

asym_atl_dd_mean vs run
χ² / ndf 10.24 / 19
p0 5841 ± 6390
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean −625.1
Std Dev 631.2
1
0.5
0
−0.5
−1

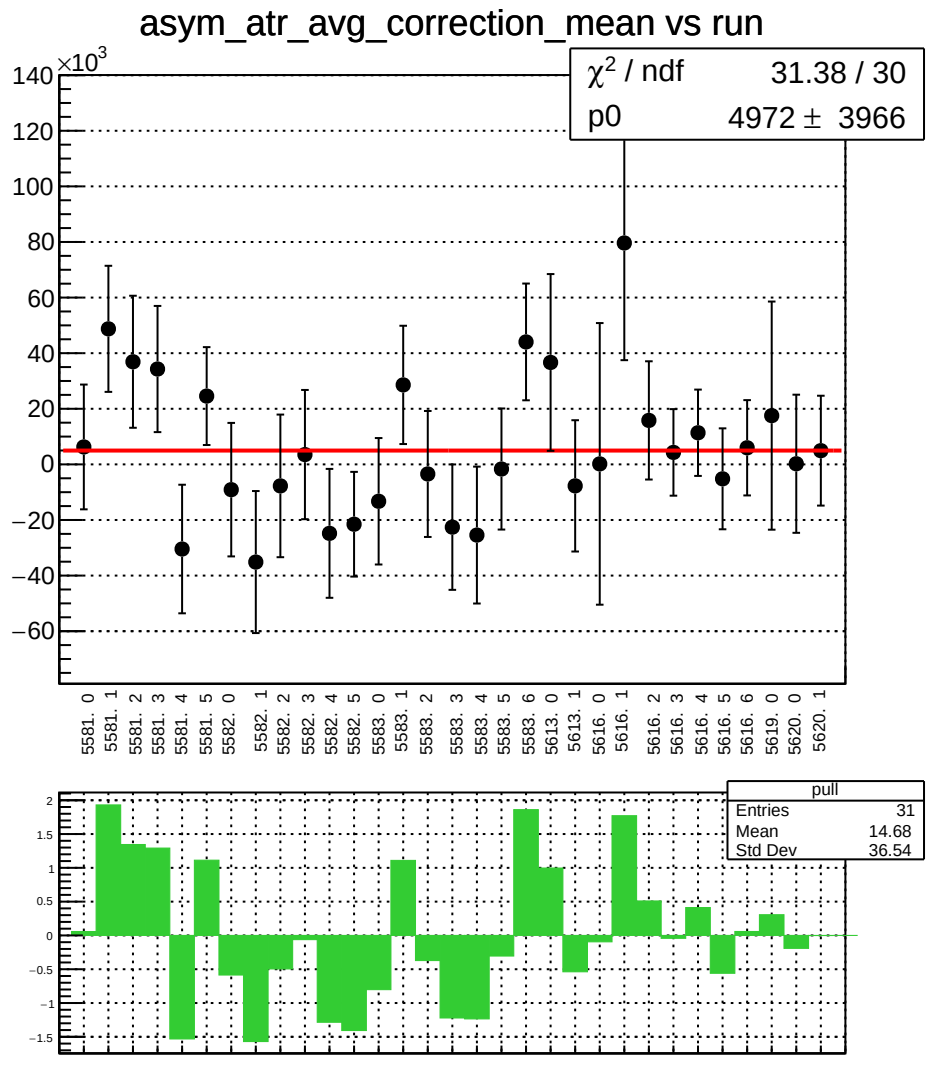

pull1D
Entries 20
Mean 0.001386
Std Dev 0.7155
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

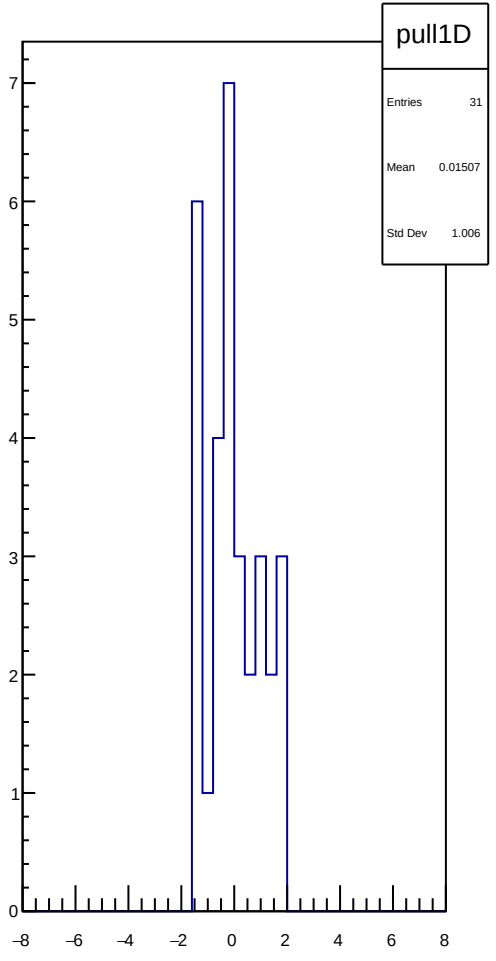

asym_atl_dd_rms vs run
χ² / ndf 1.086e+05 / 30
p0 2424 ± 3.435
×10³
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

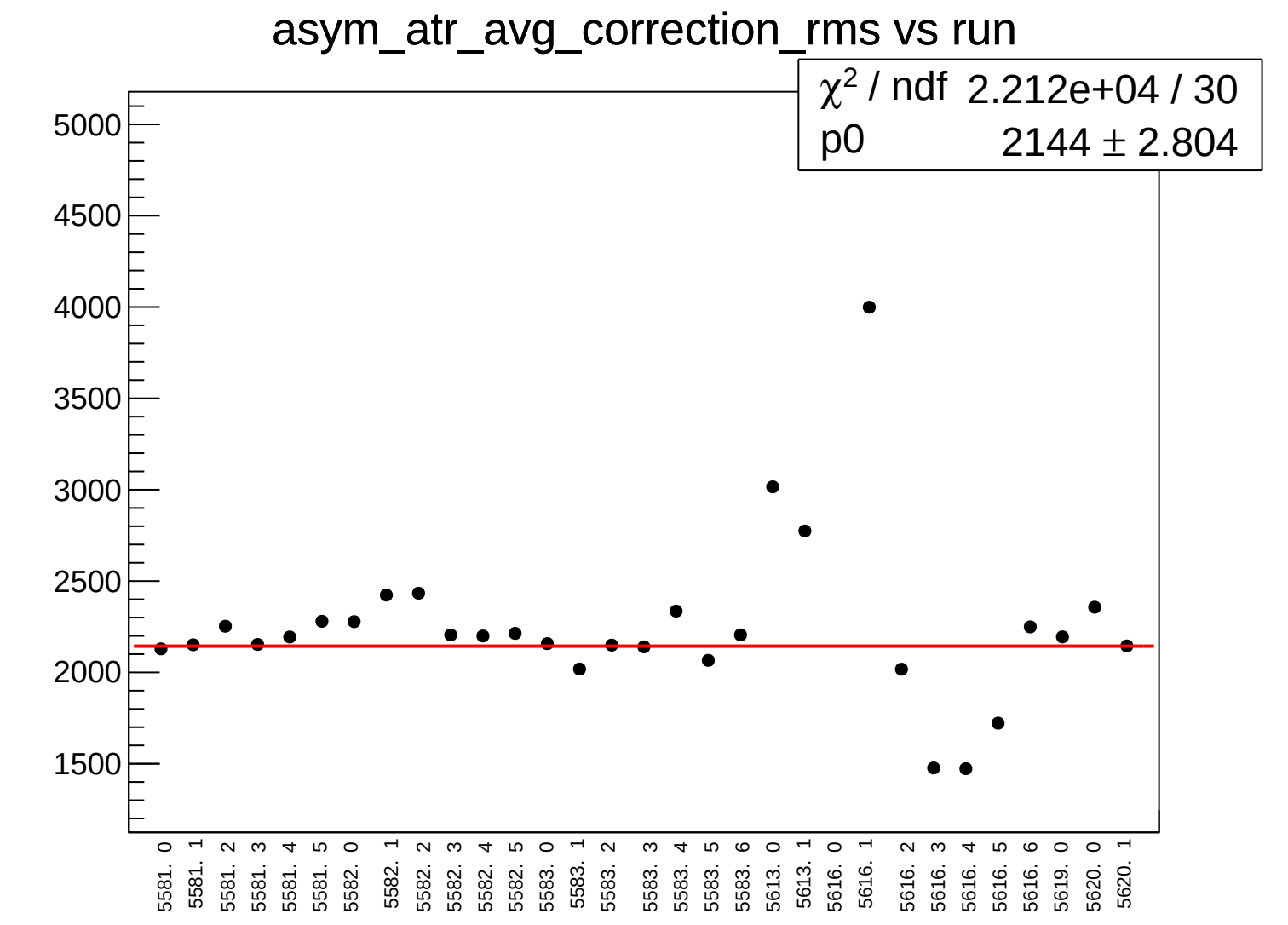

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 20.77 / 23
p0 −5547 ± 3658
50
0
−50
−100
−150
−200
−250
−300
−350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 26.03
Std Dev 11.54
2
1.5
1
0.5
0
−0.5
−1
−1.5

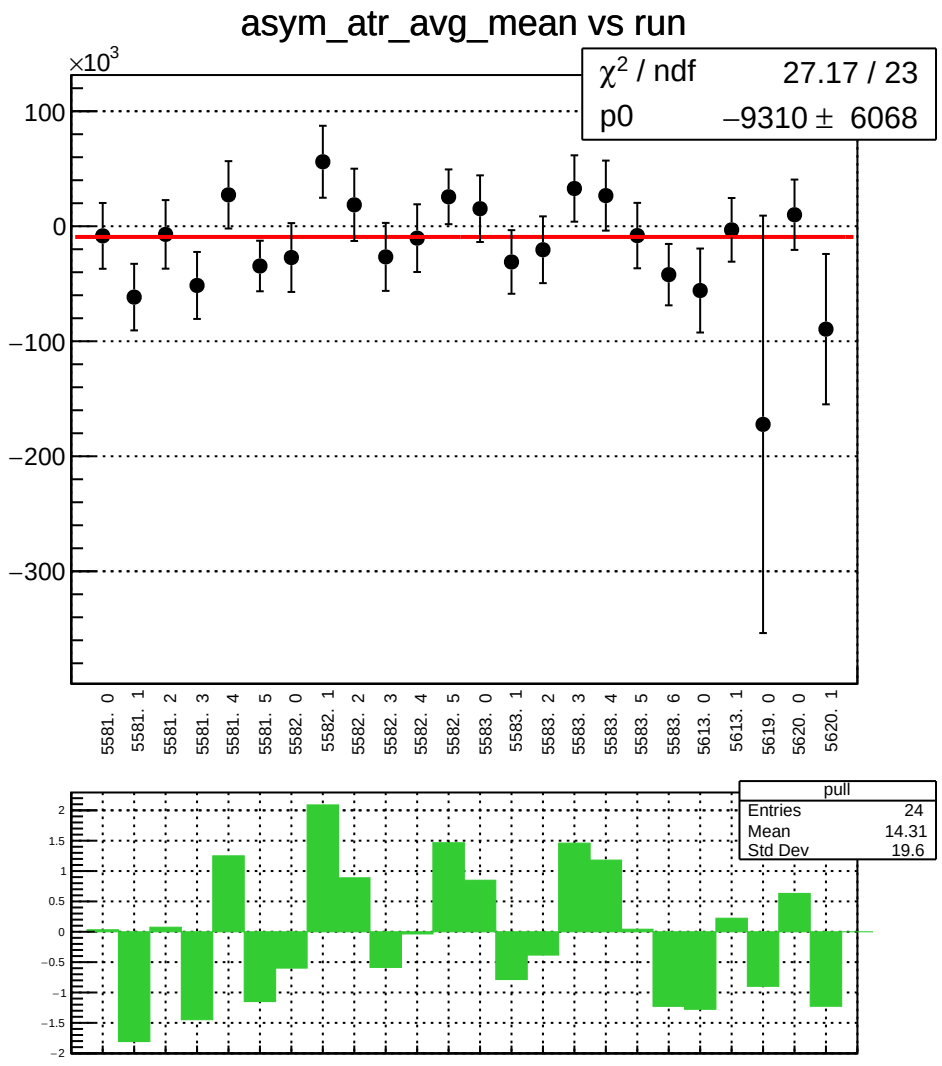

pull1D
Entries 24
Mean −0.06978
Std Dev 0.9276
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

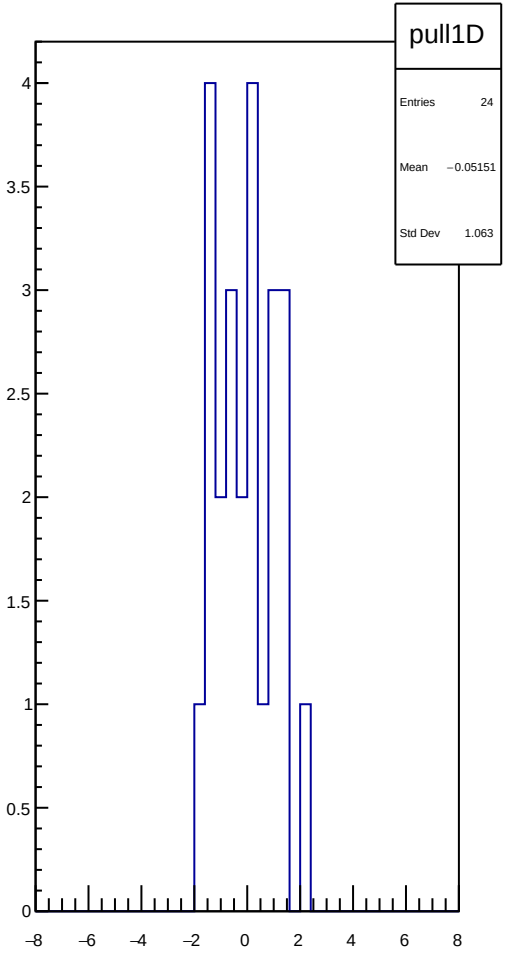

reg_asym_atr_avg_rms vs run
×10^3
χ^2 / ndf 1.191e+05 / 30
p0 1711 ± 2.45
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

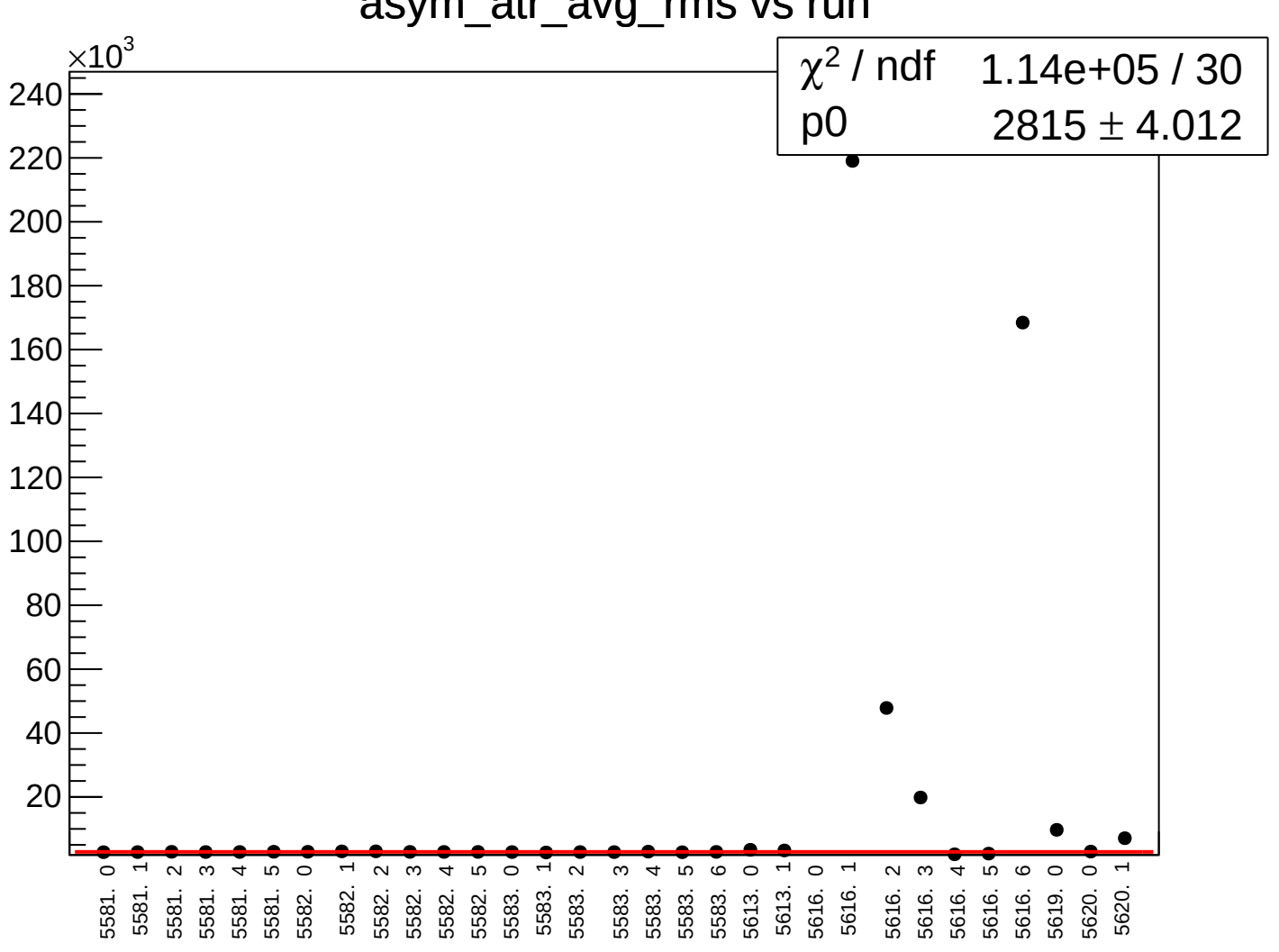

asym_atr_avg_correction_mean vs run
×10^3
χ^2 / ndf 31.38 / 30
p0 4972 ± 3966
140
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 14.68
Std Dev 36.54
2
1.5
1
0.5
0
−0.5
−1
−1.5

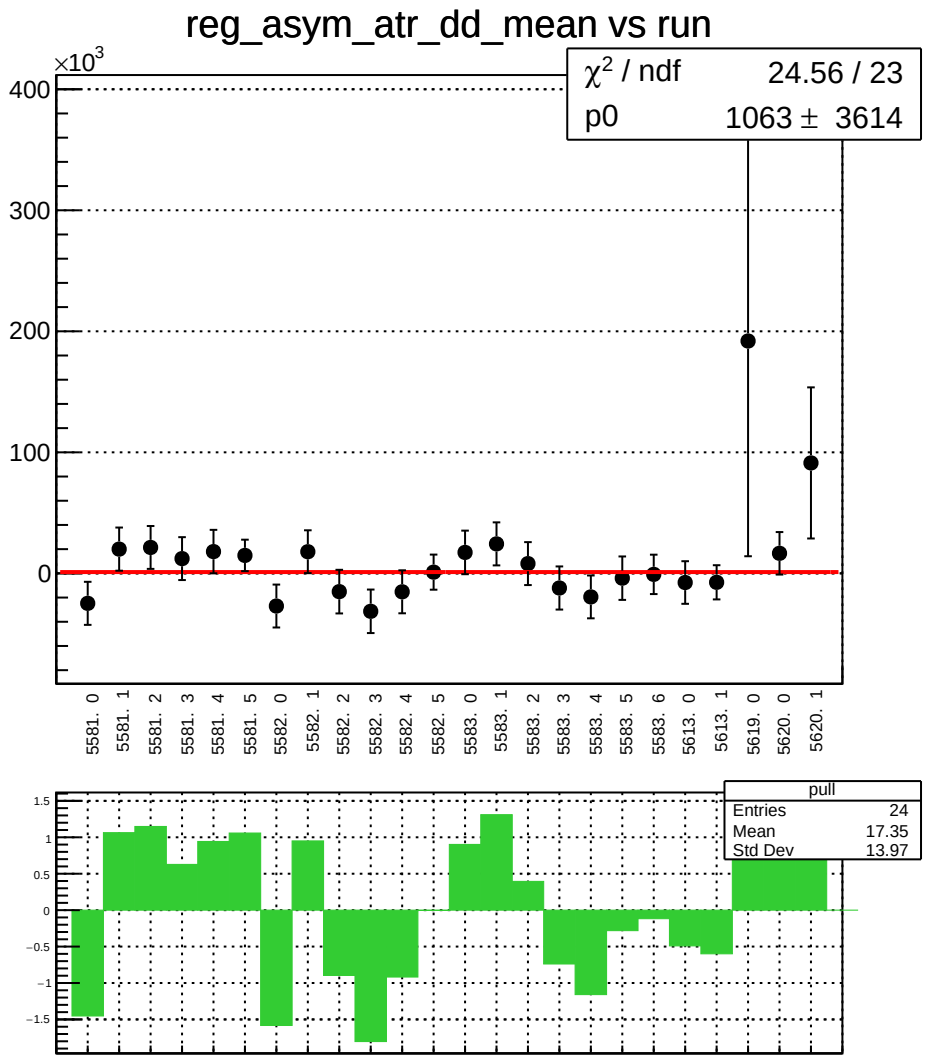

pull1D
Entries 31
Mean 0.01507
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

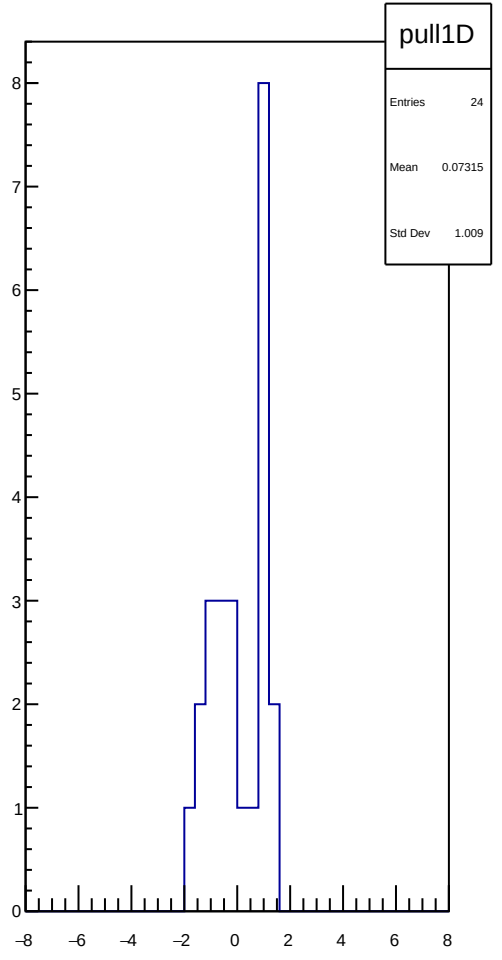

asym_atr_avg_correction_rms vs run
χ² / ndf 2.212e+04 / 30
p0 2144 ± 2.804
5000
4500
4000
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

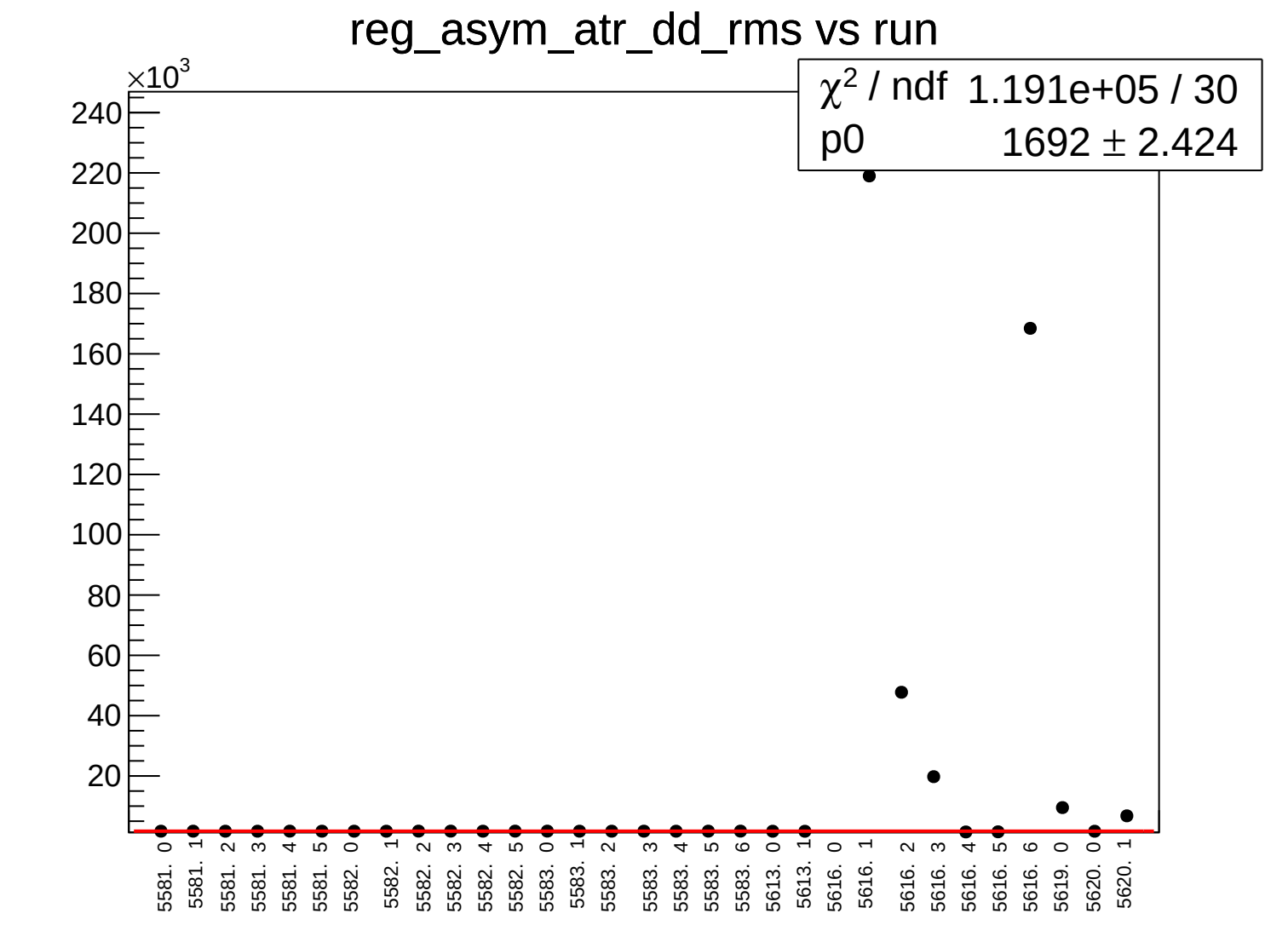

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 27.17 / 23
p0 −9310 ± 6068
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 14.31
Std Dev 19.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

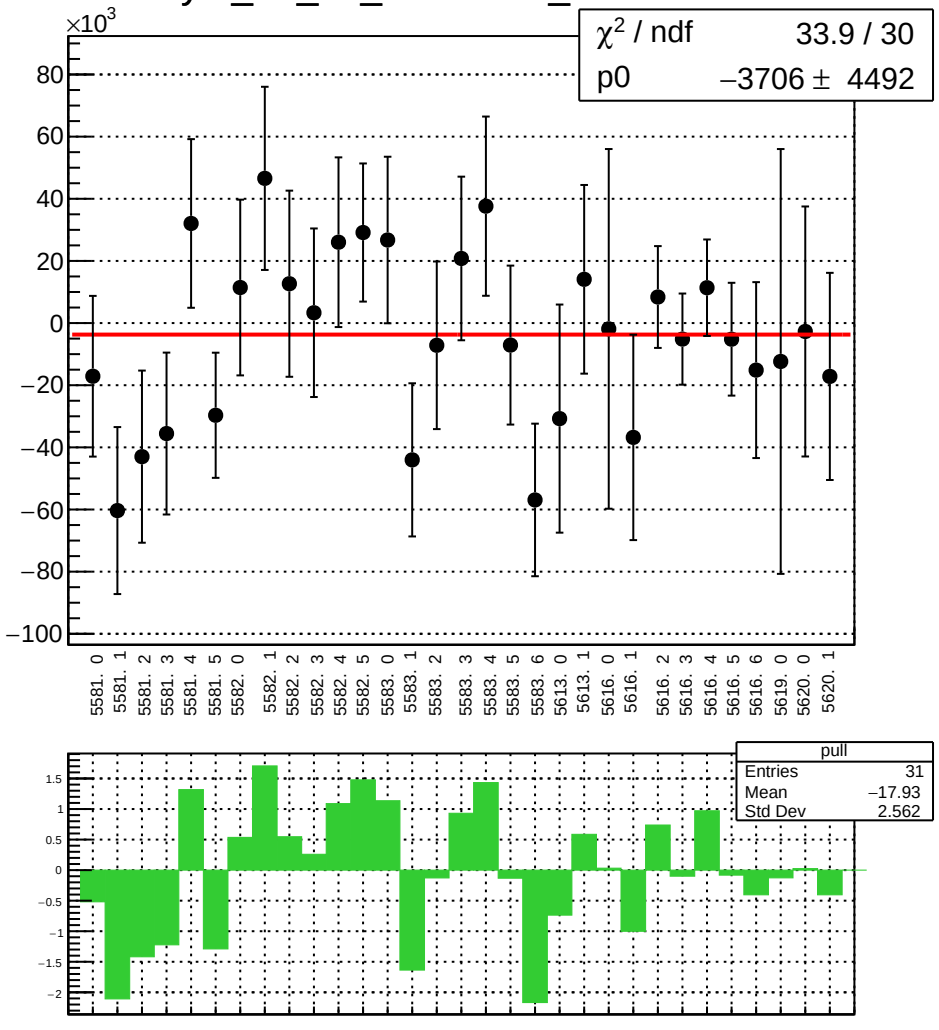

pull1D
Entries 24
Mean −0.05151
Std Dev 1.063
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

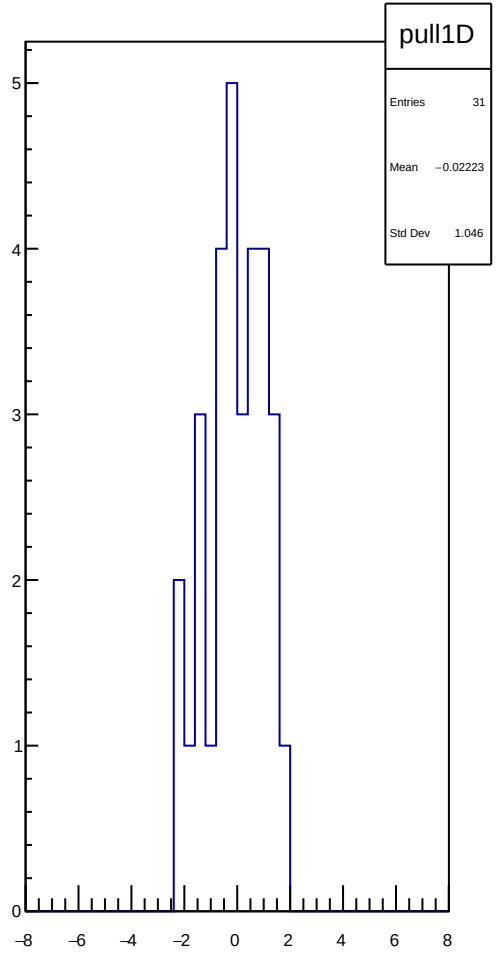

asym_atr_avg_rms vs run
×10^3
χ^2 / ndf 1.14e+05 / 30
p0 2815 ± 4.012
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

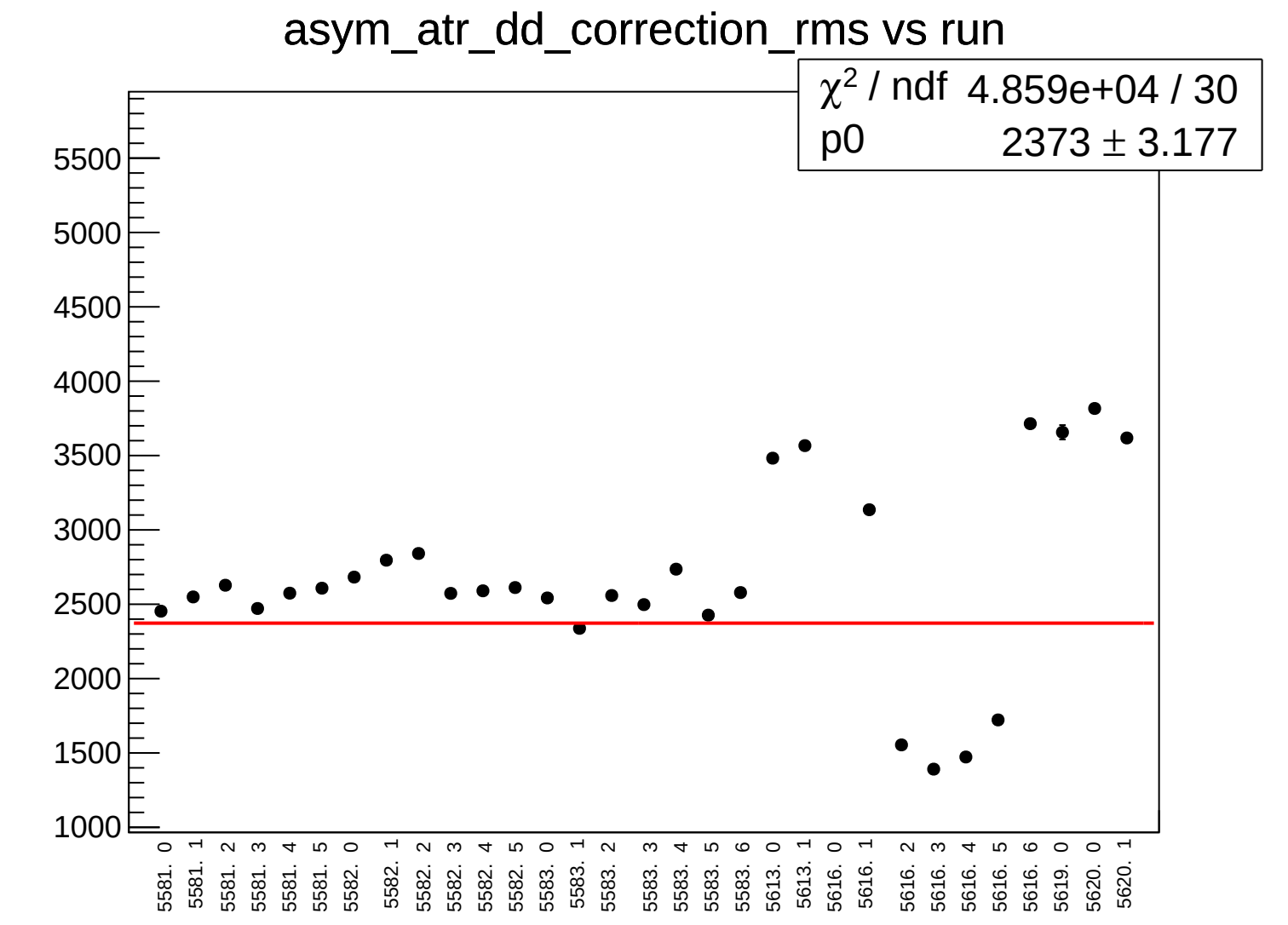

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 24.56 / 23
p0 1063 ± 3614
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 17.35
Std Dev 13.97
1.5
1
0.5
0
−0.5
−1
−1.5

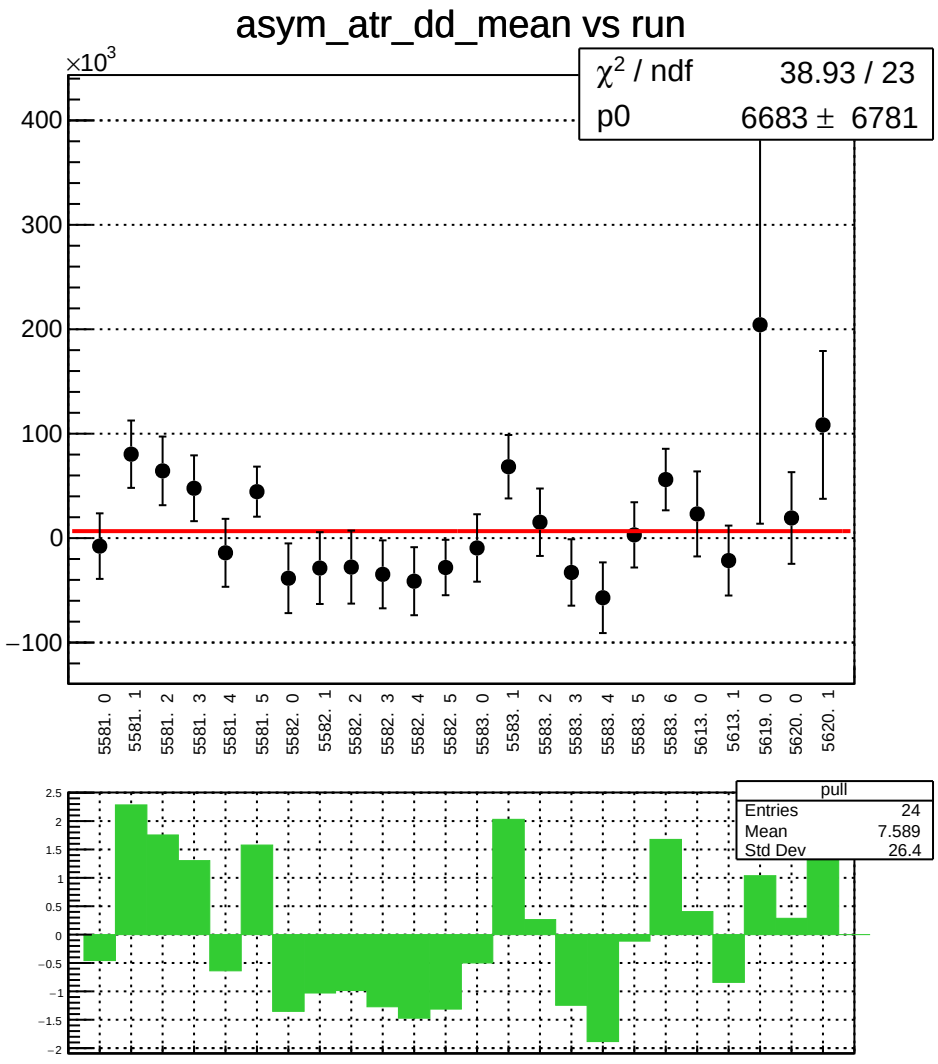

pull1D
Entries 24
Mean 0.07315
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

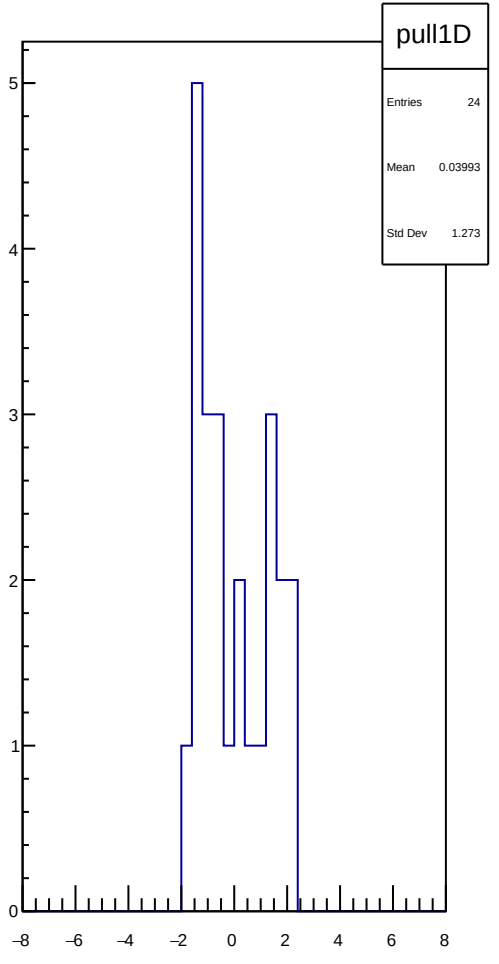

reg_asym_atr_dd_rms vs run
×10^3
χ^2 / ndf 1.191e+05 / 30
p0 1692 ± 2.424
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

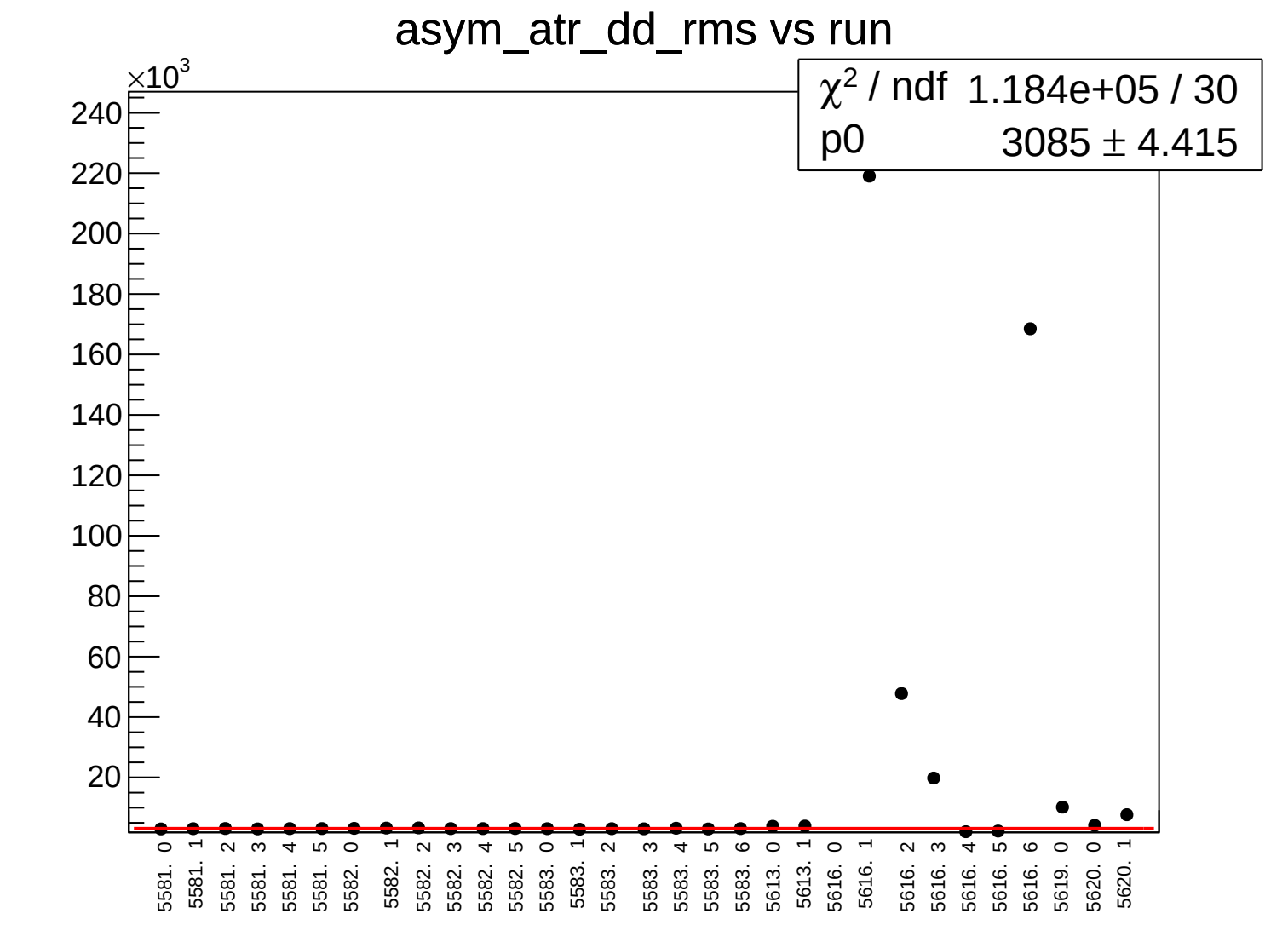

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 33.9 / 30
p0 −3706 ± 4492
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −17.93
Std Dev 2.562
1.5
1
0.5
0
−0.5
−1
−1.5
−2

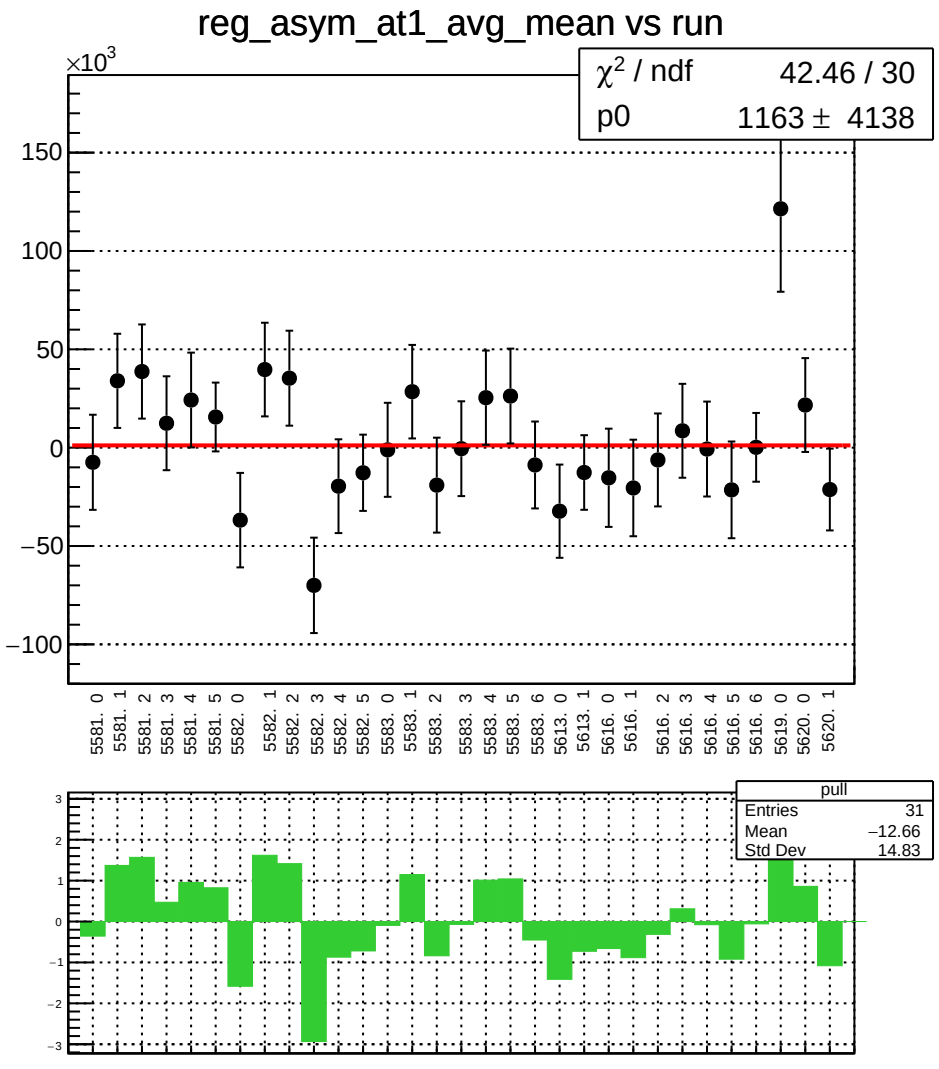

pull1D
Entries 31
Mean −0.02223
Std Dev 1.046
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

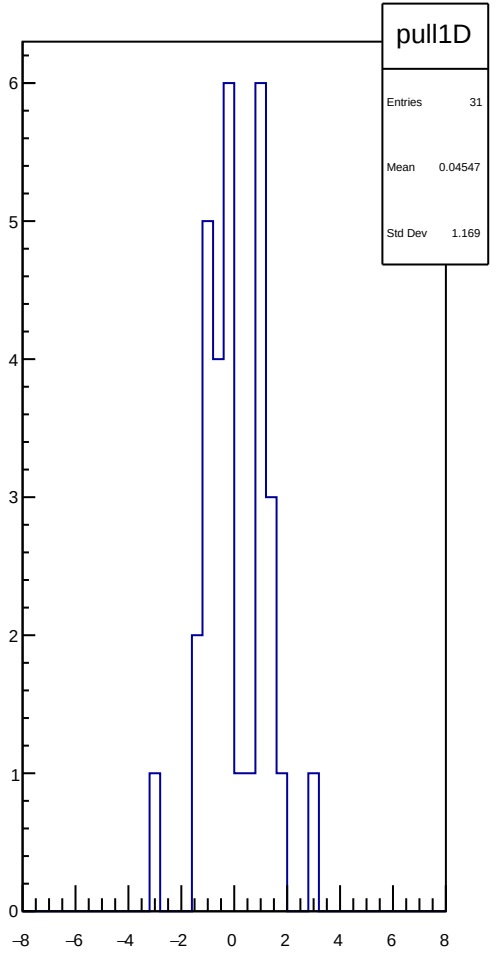

asym_atr_dd_correction_rms vs run
χ² / ndf 4.859e+04 / 30
p0 2373 ± 3.177
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

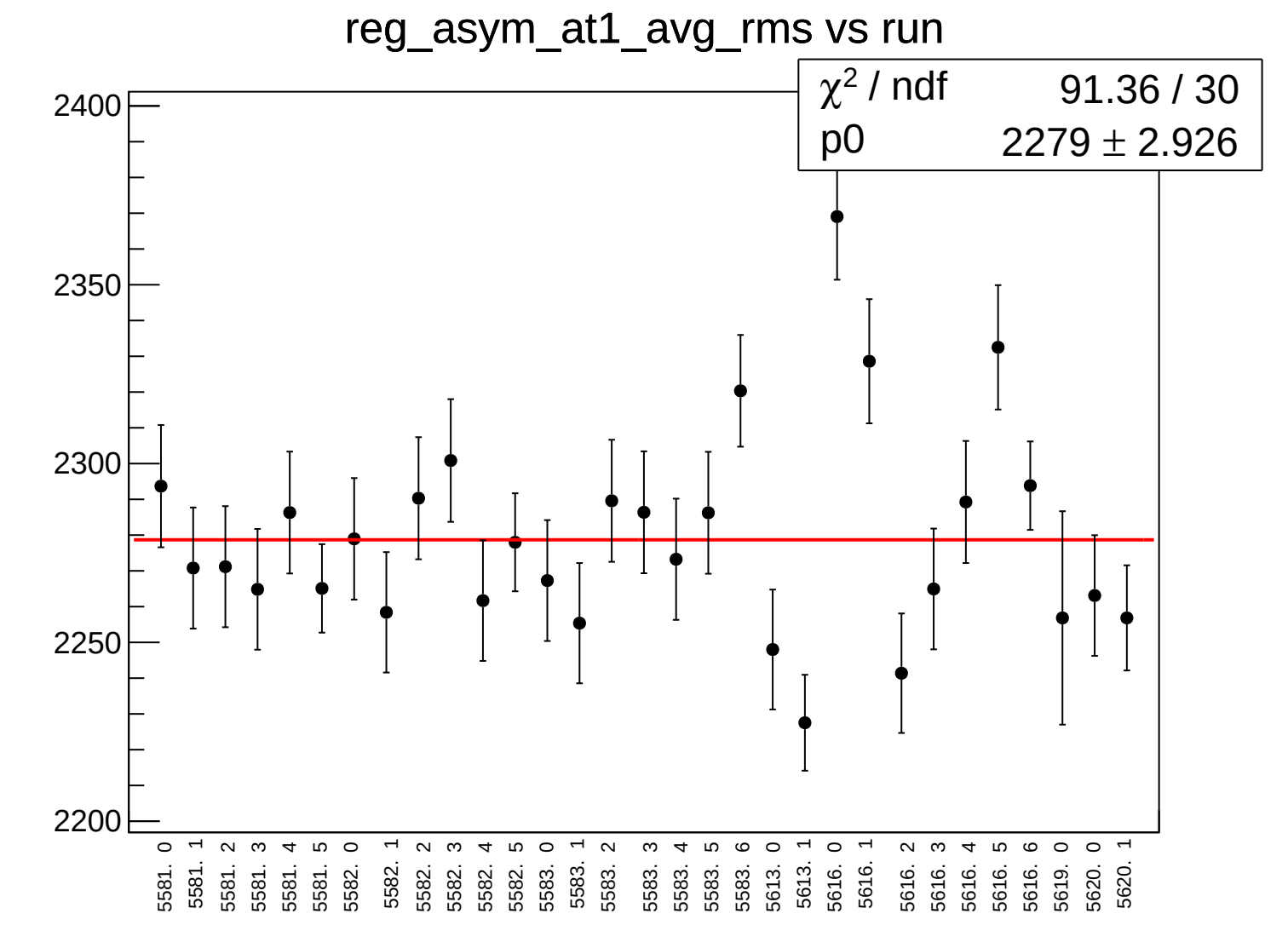

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 38.93 / 23
p0 6683 ± 6781
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 7.589
Std Dev 26.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

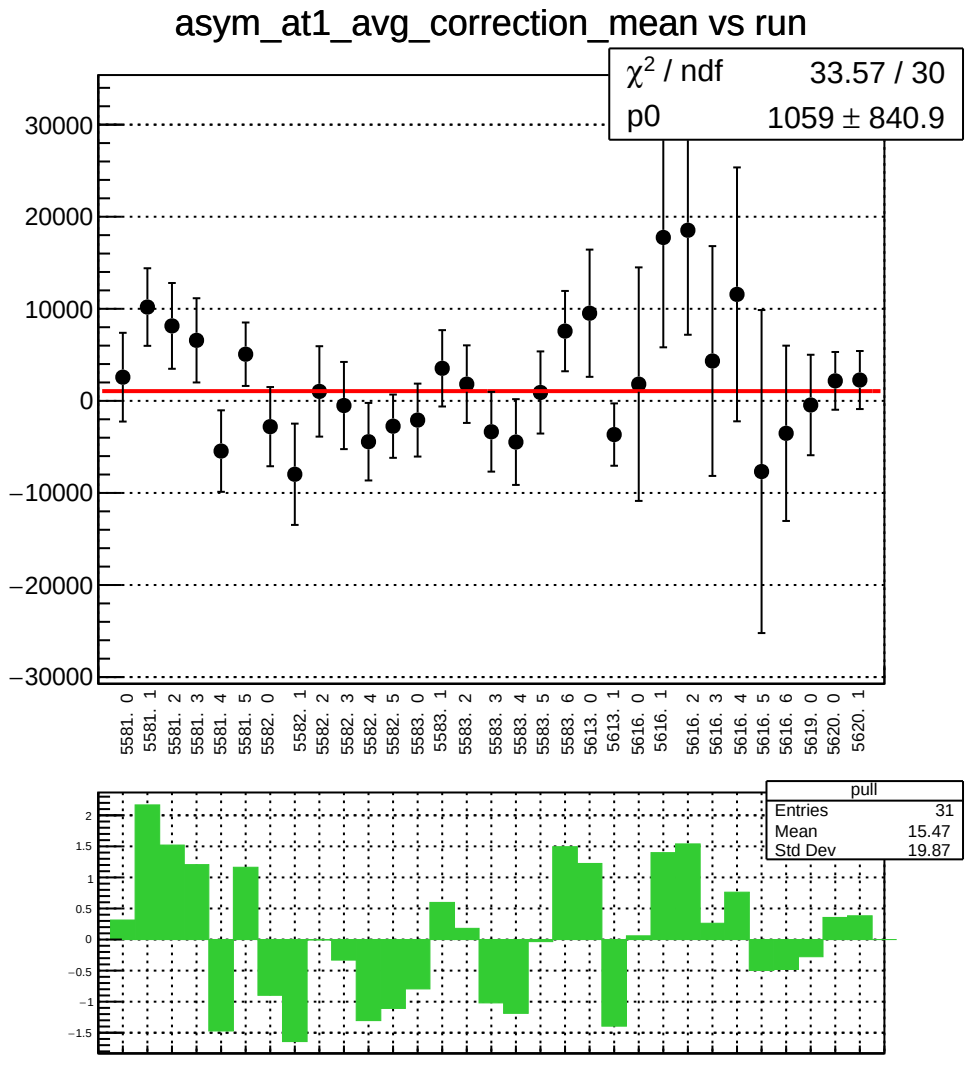

pull1D
Entries 24
Mean 0.03993
Std Dev 1.273
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

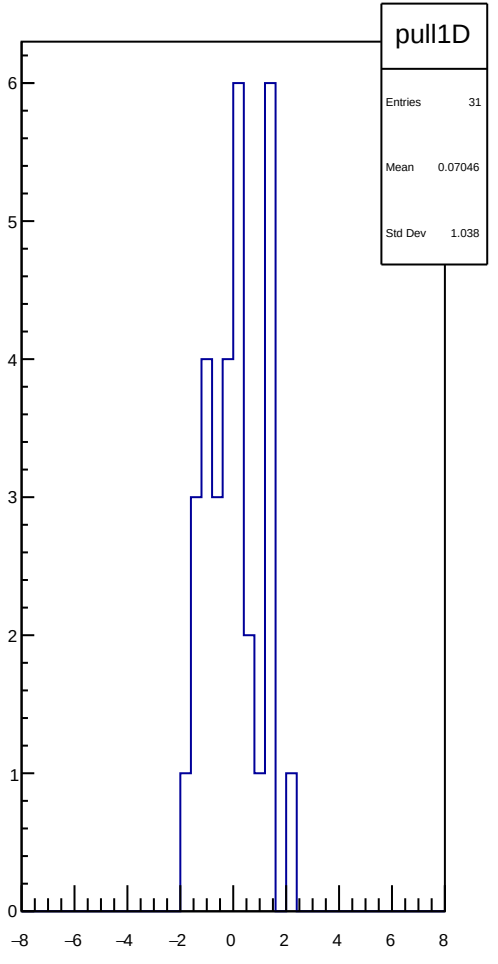

asym_atr_dd_rms vs run
×10^3
χ^2 / ndf 1.184e+05 / 30
p0 3085 ± 4.415
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

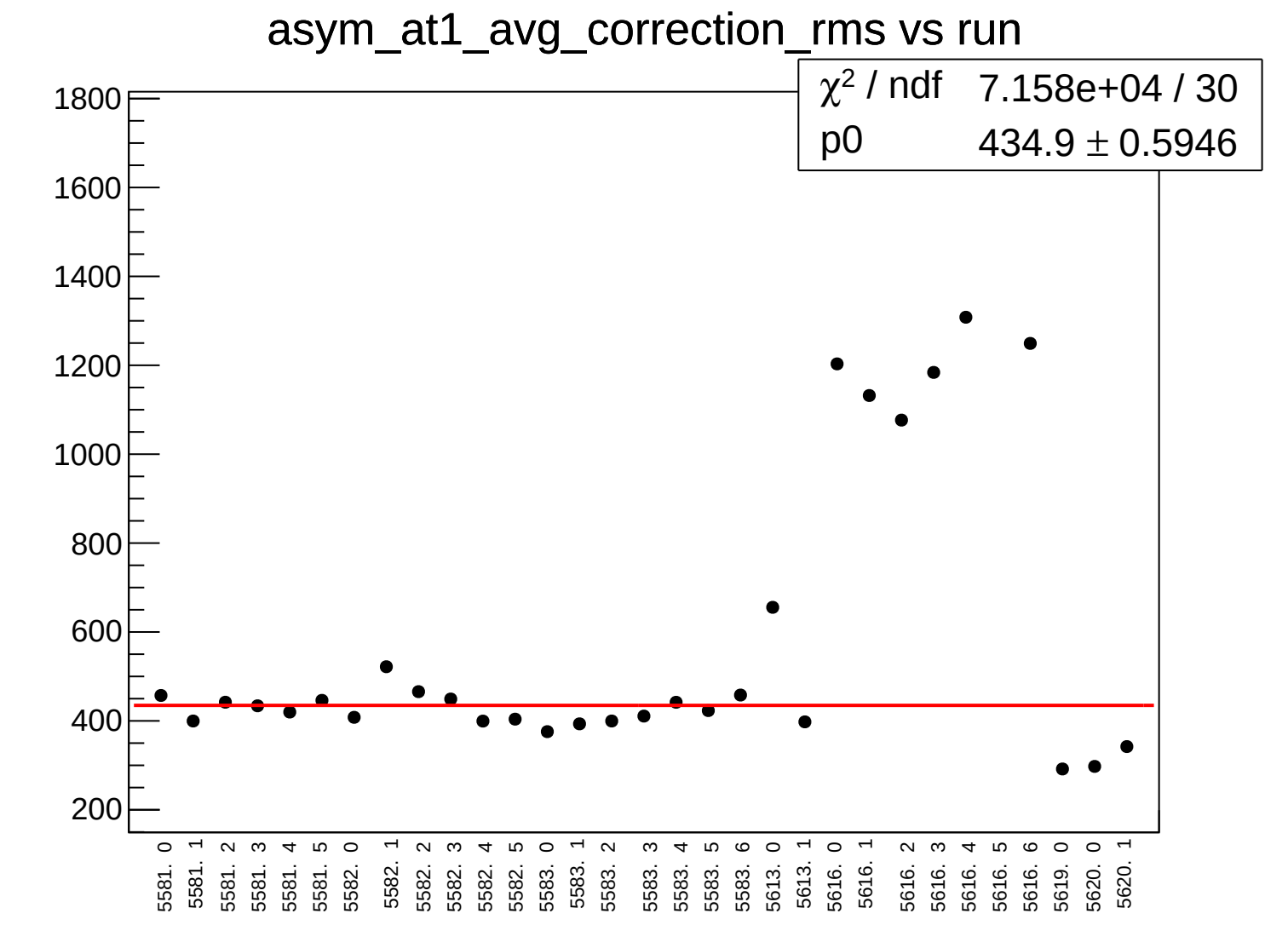

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 42.46 / 30
p0 1163 ± 4138
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −12.66
Std Dev 14.83
3
2
1
0
−1
−2
−3

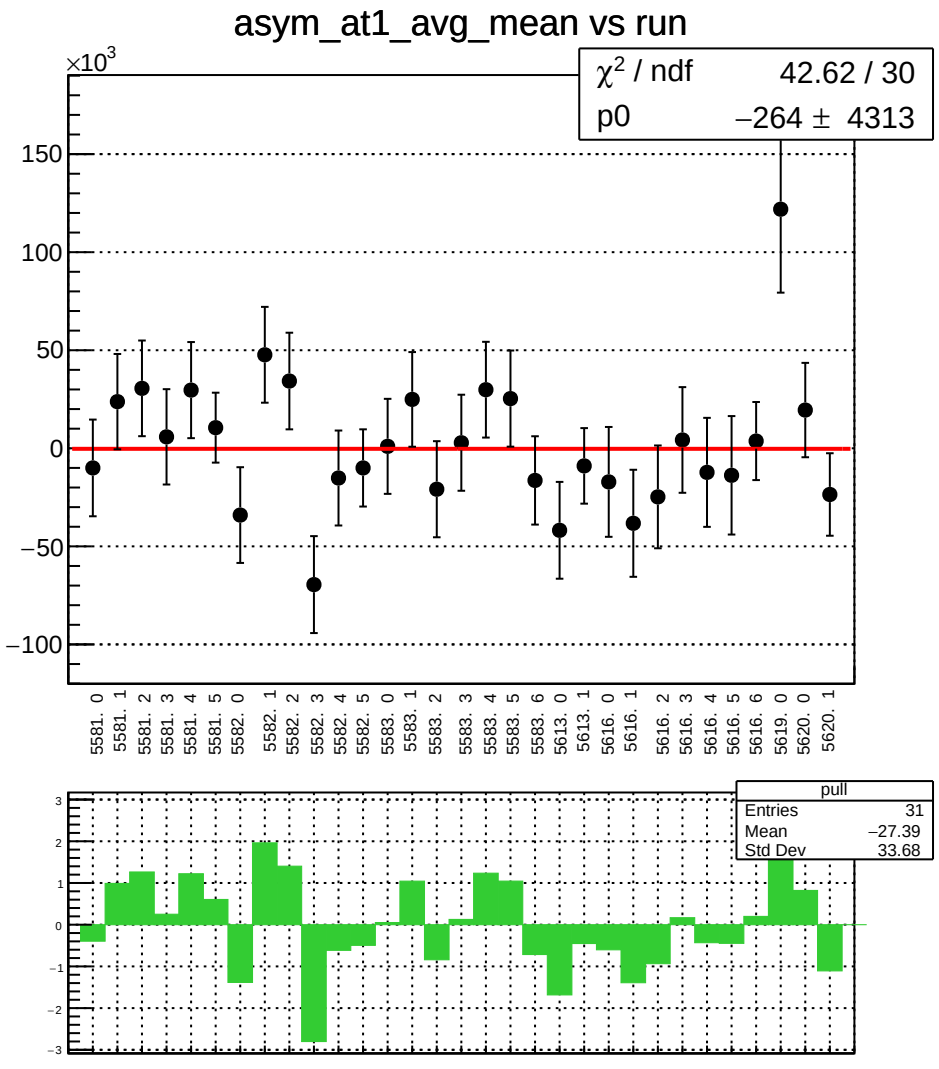

pull1D
Entries 31
Mean 0.04547
Std Dev 1.169
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

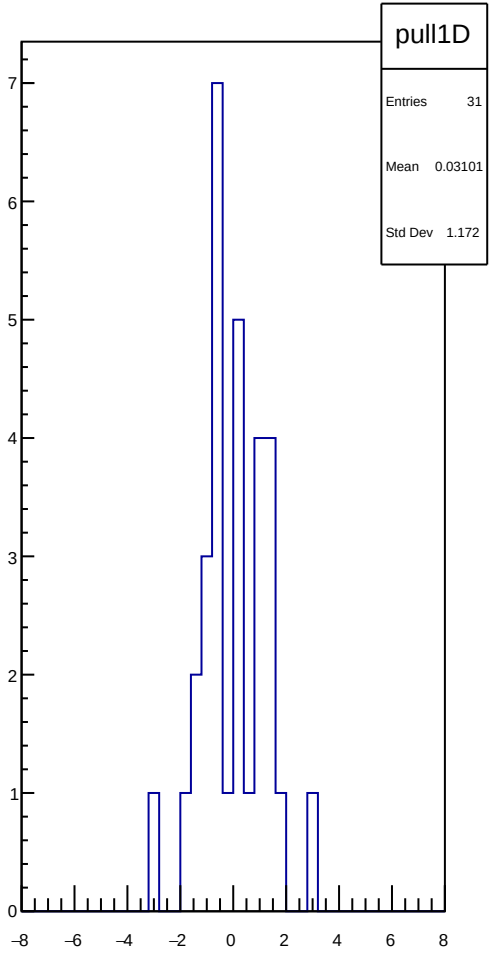

reg_asym_at1_avg_rms vs run
χ² / ndf 91.36 / 30
p0 2279 ± 2.926
2400
2350
2300
2250
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

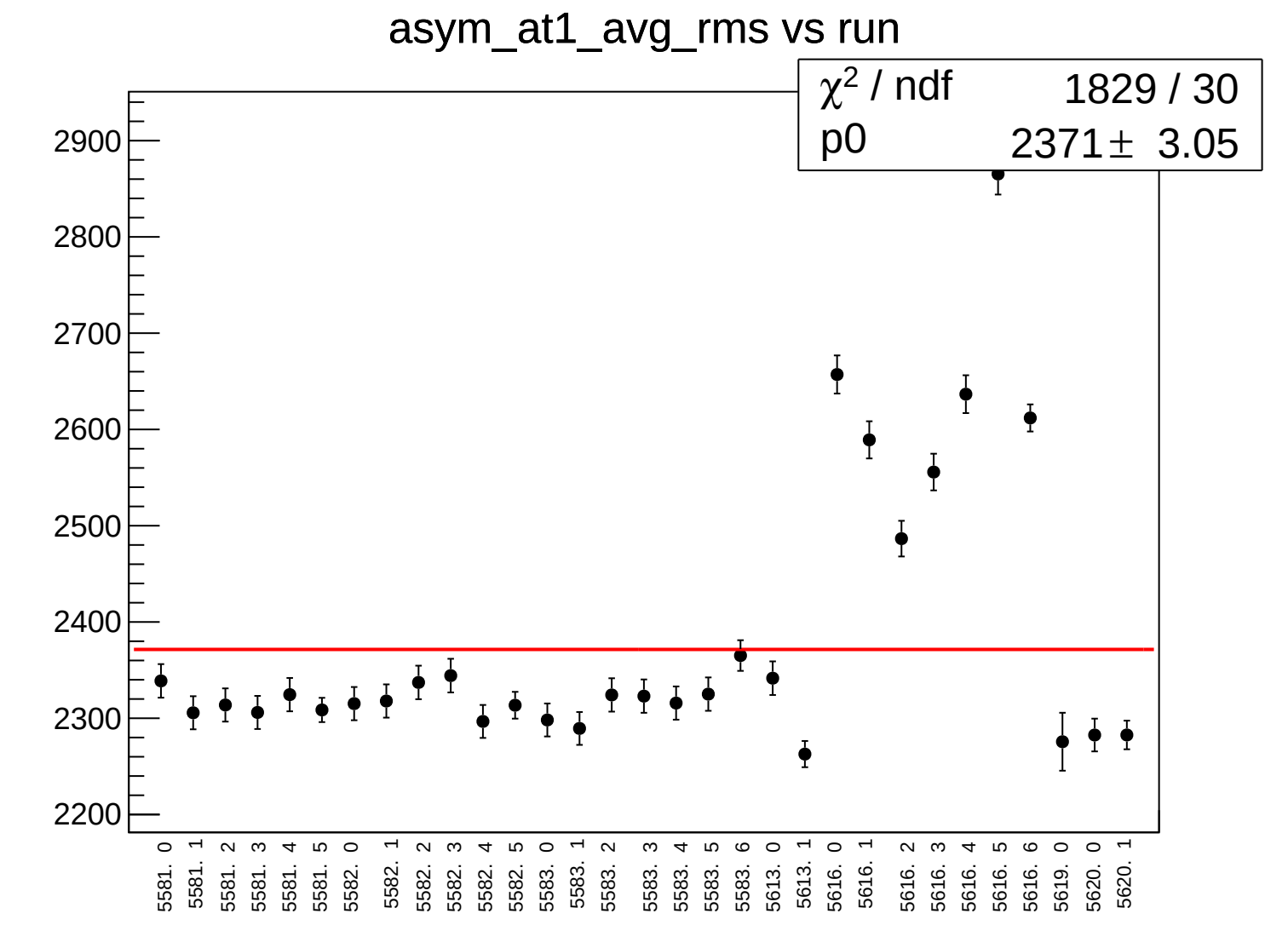

asym_at1_avg_correction_mean vs run
χ² / ndf 33.57 / 30
p0 1059 ± 840.9
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.47
Std Dev 19.87
2
1.5
1
0.5
0
−0.5
−1
−1.5

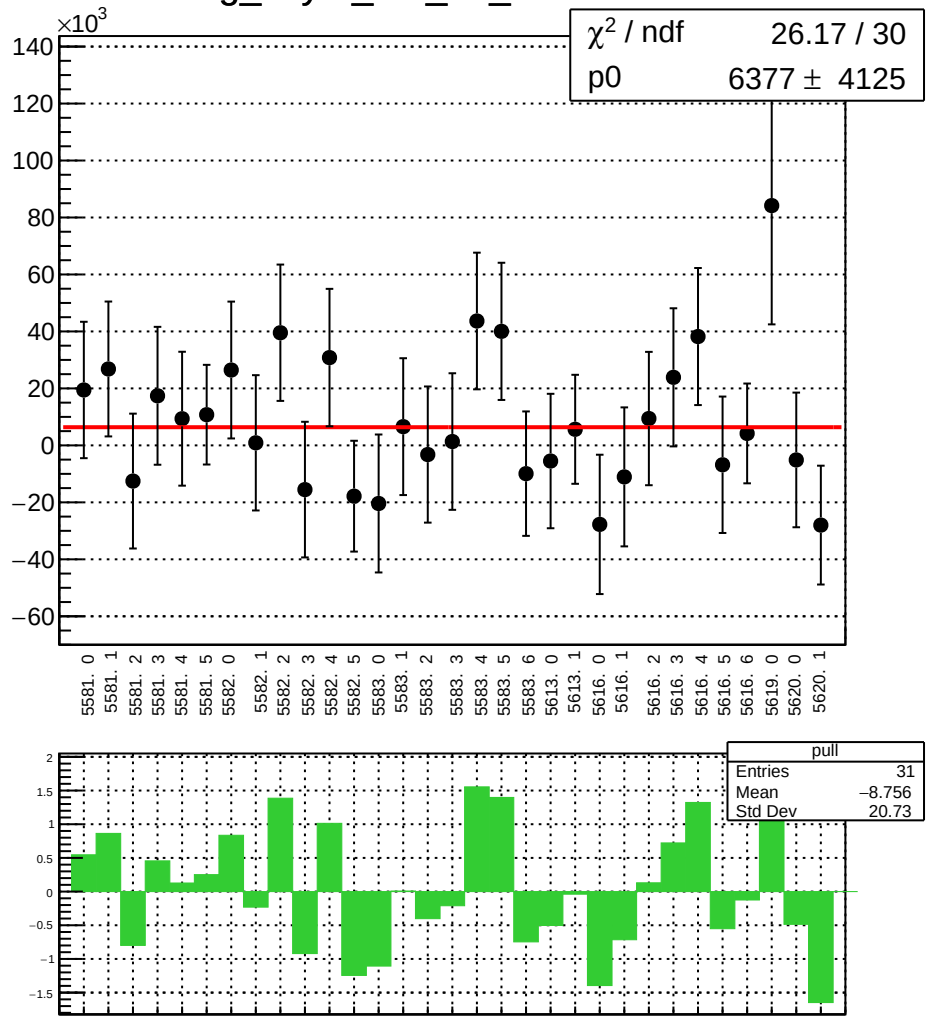

pull1D
Entries 31
Mean 0.07046
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

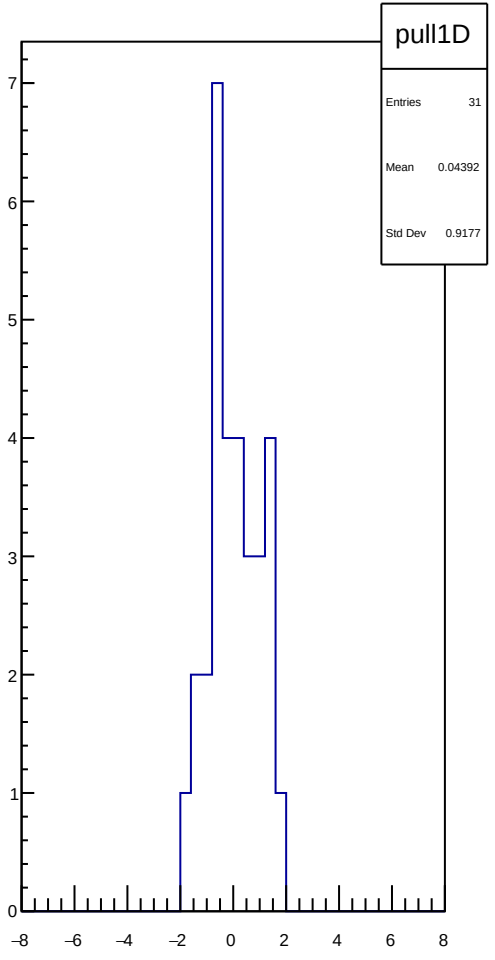

asym_at1_avg_correction_rms vs run
χ² / ndf 7.158e+04 / 30
p0 434.9 ± 0.5946
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

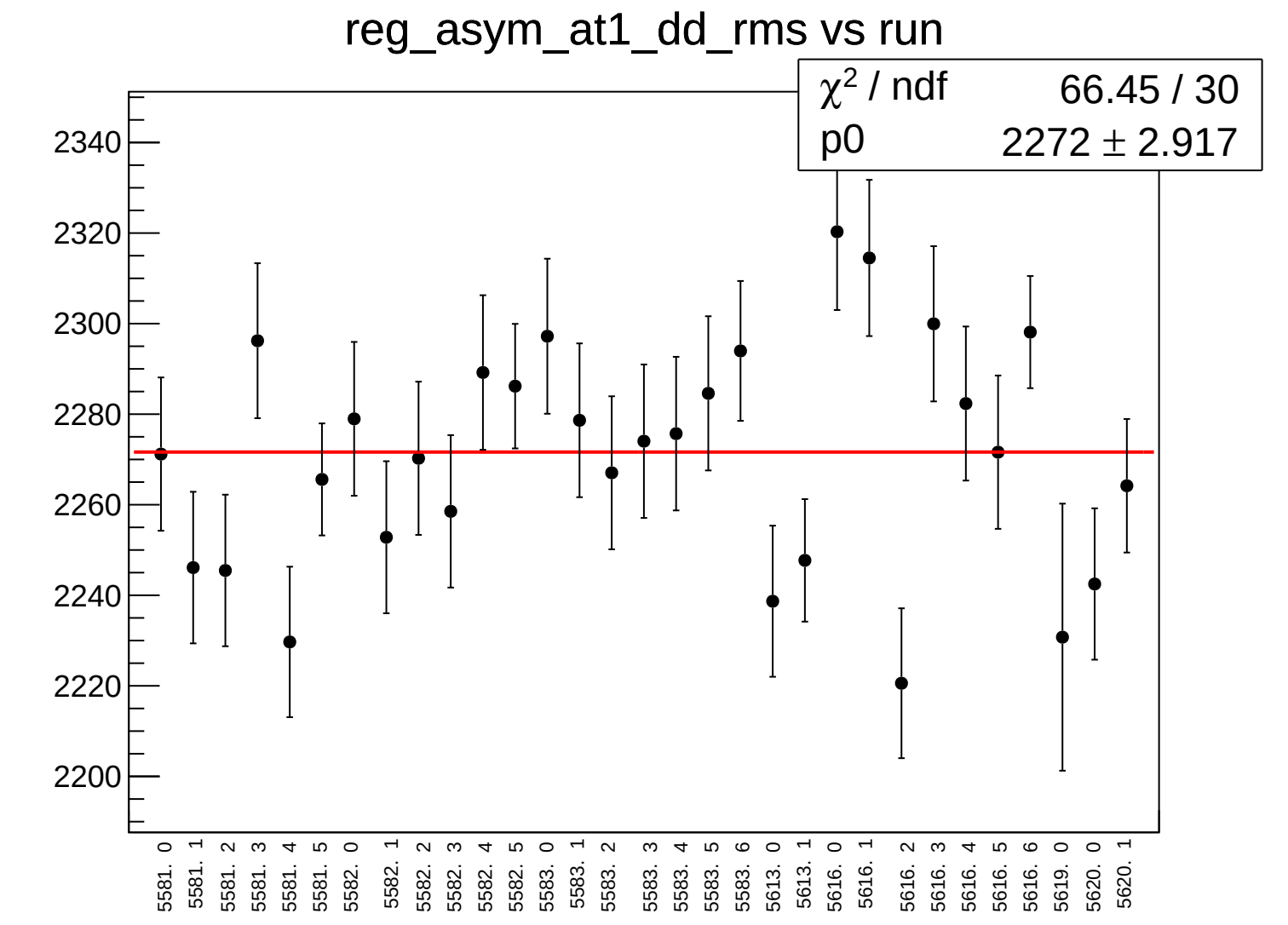

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 42.62 / 30
p0 −264 ± 4313
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −27.39
Std Dev 33.68
3
2
1
0
−1
−2
−3

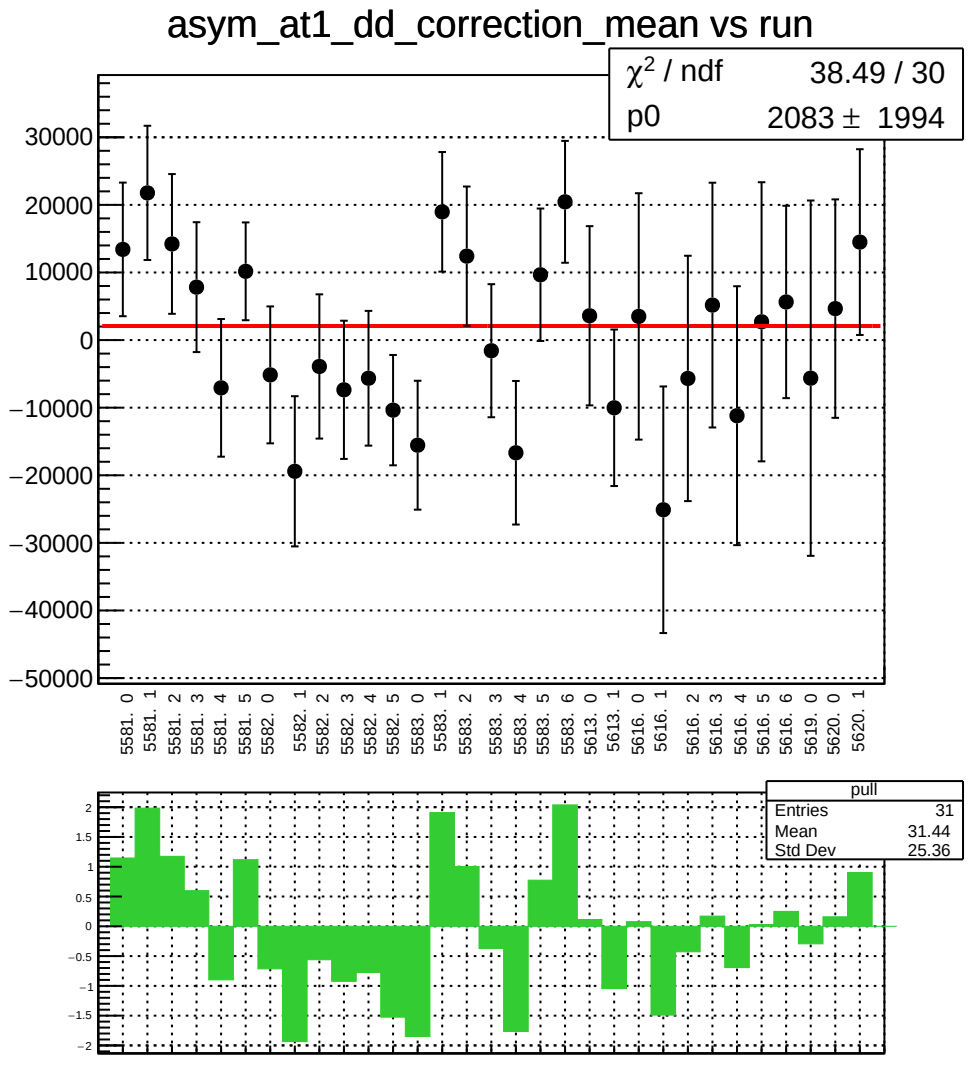

pull1D
Entries 31
Mean 0.03101
Std Dev 1.172
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

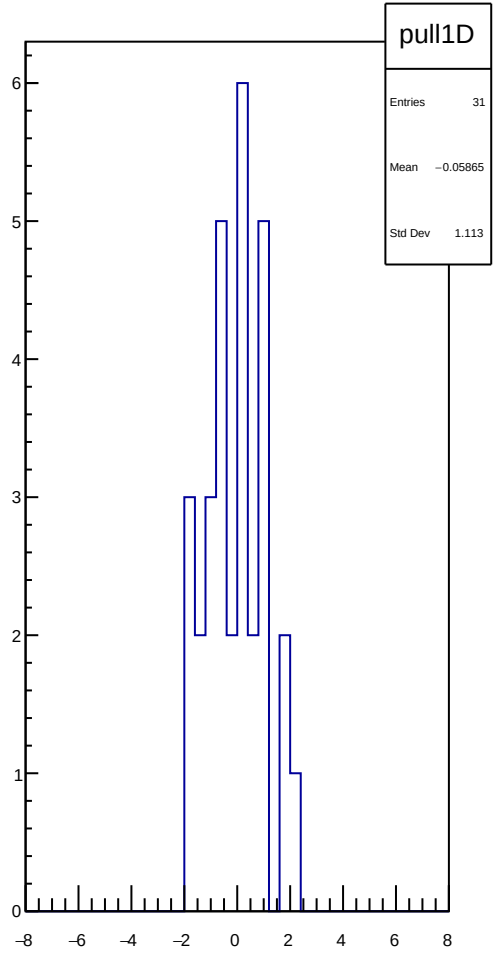

asym_at1_avg_rms vs run
χ² / ndf 1829 / 30
p0 2371 ± 3.05
2900
2800
2700
2600
2500
2400
2300
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

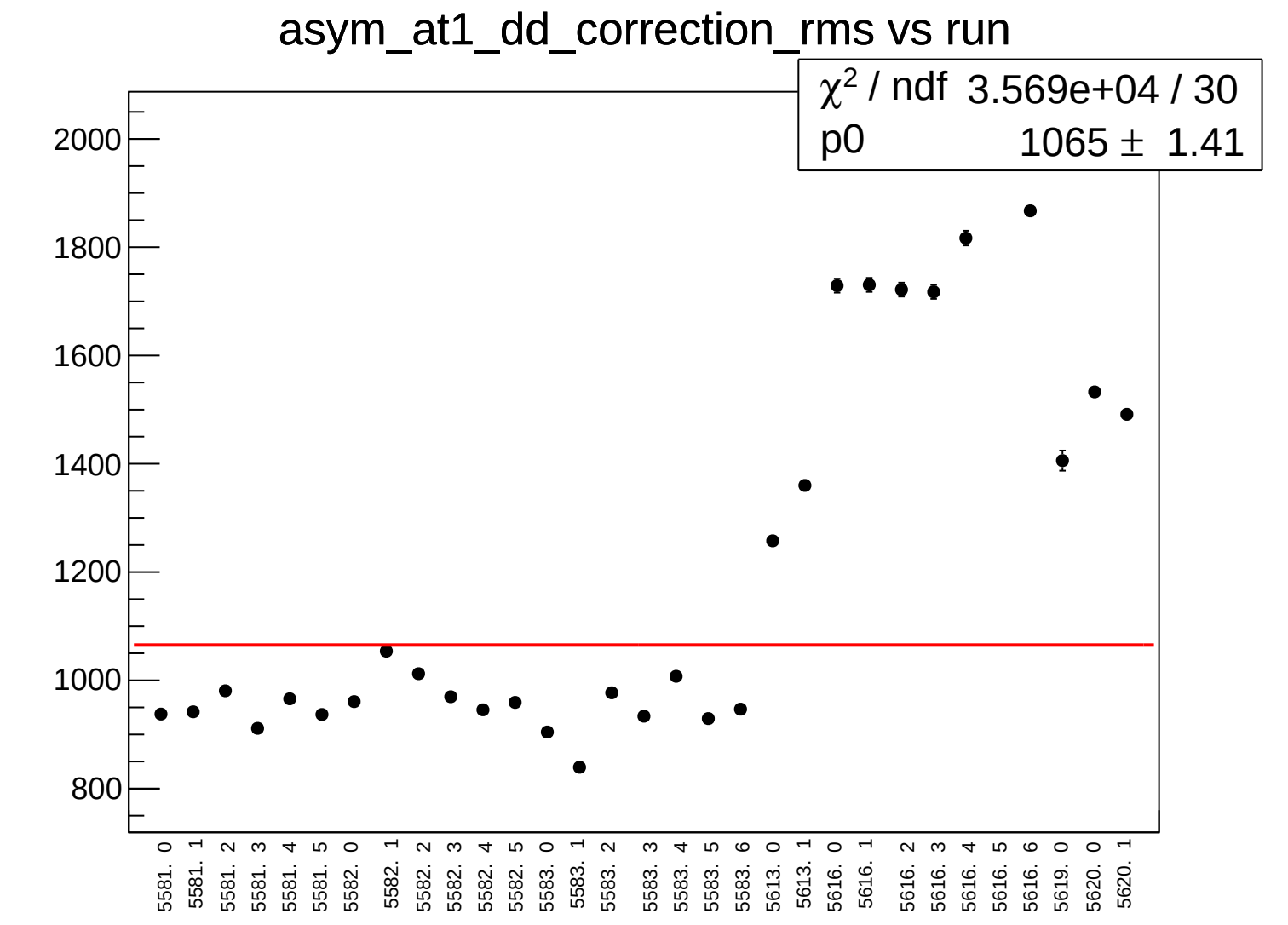

reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 26.17 / 30
p0 6377 ± 4125
140
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −8.756
Std Dev 20.73
2
1.5
1
0.5
0
−0.5
−1
−1.5

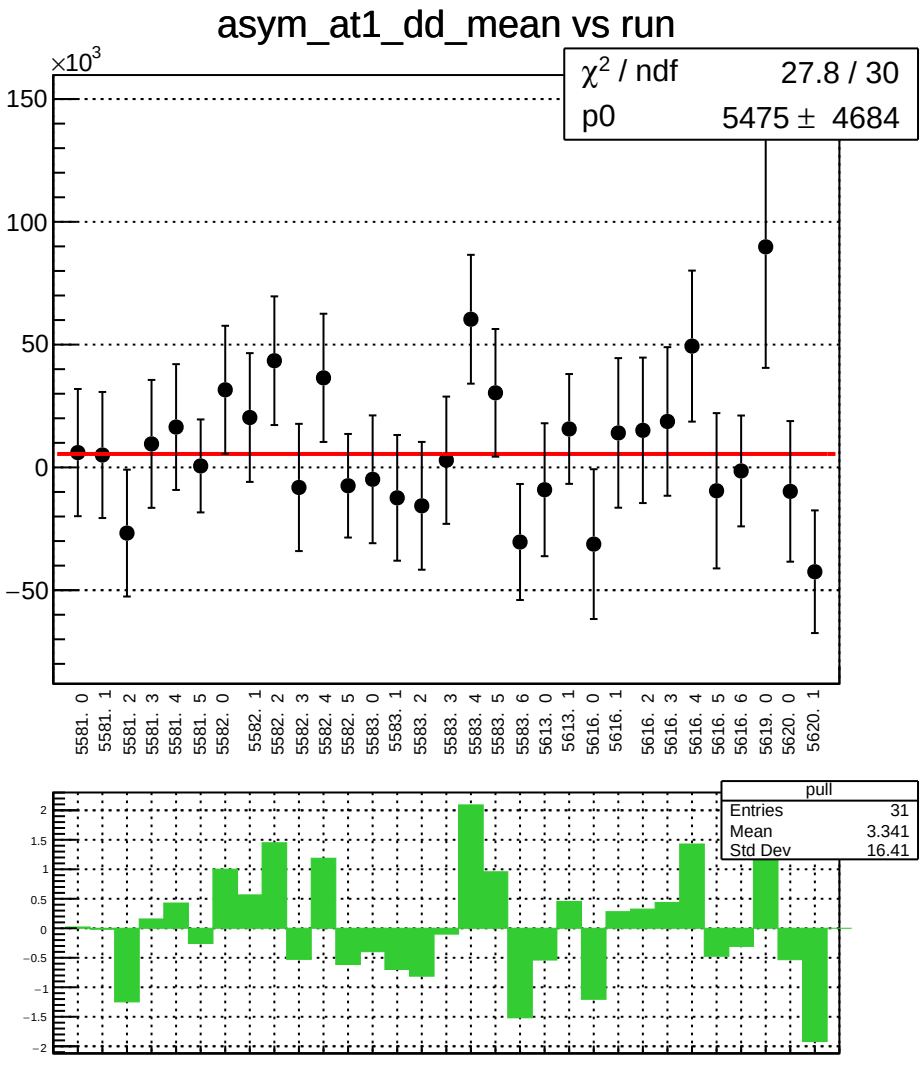

pull1D
Entries 31
Mean 0.04392
Std Dev 0.9177
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

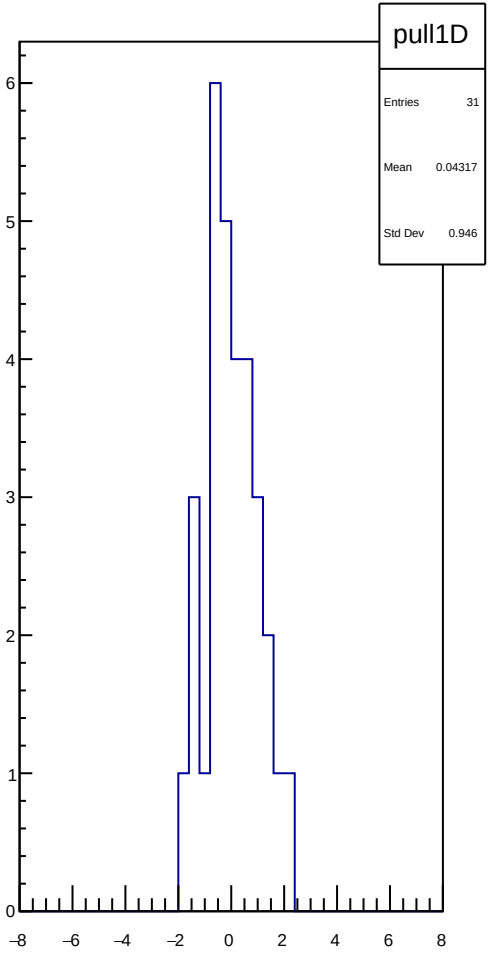

reg_asym_at1_dd_rms vs run
χ² / ndf 66.45 / 30
p0 2272 ± 2.917
2340
2320
2300
2280
2260
2240
2220
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

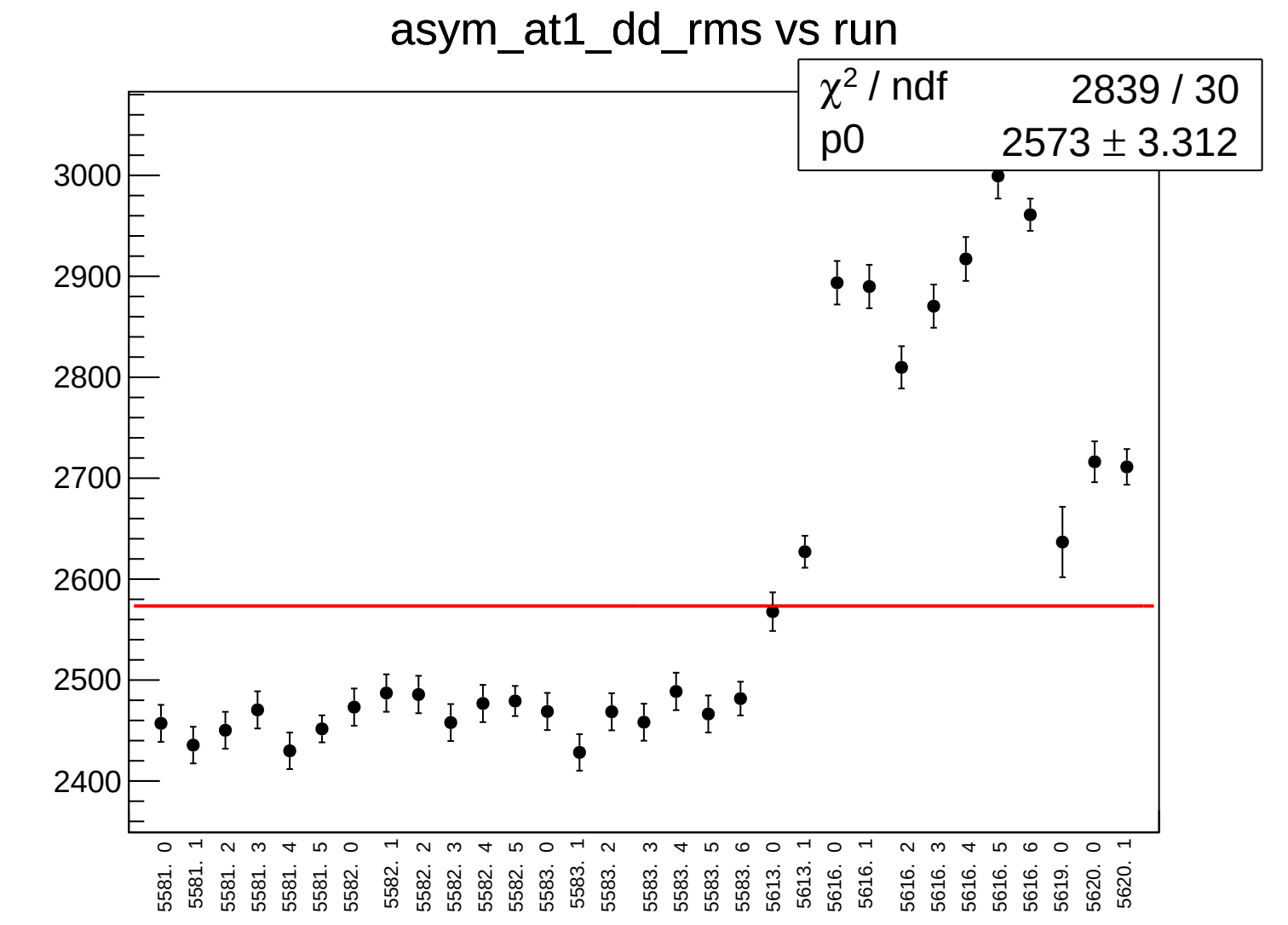

asym_at1_dd_correction_mean vs run
χ² / ndf 38.49 / 30
p0 2083 ± 1994
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 31.44
Std Dev 25.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

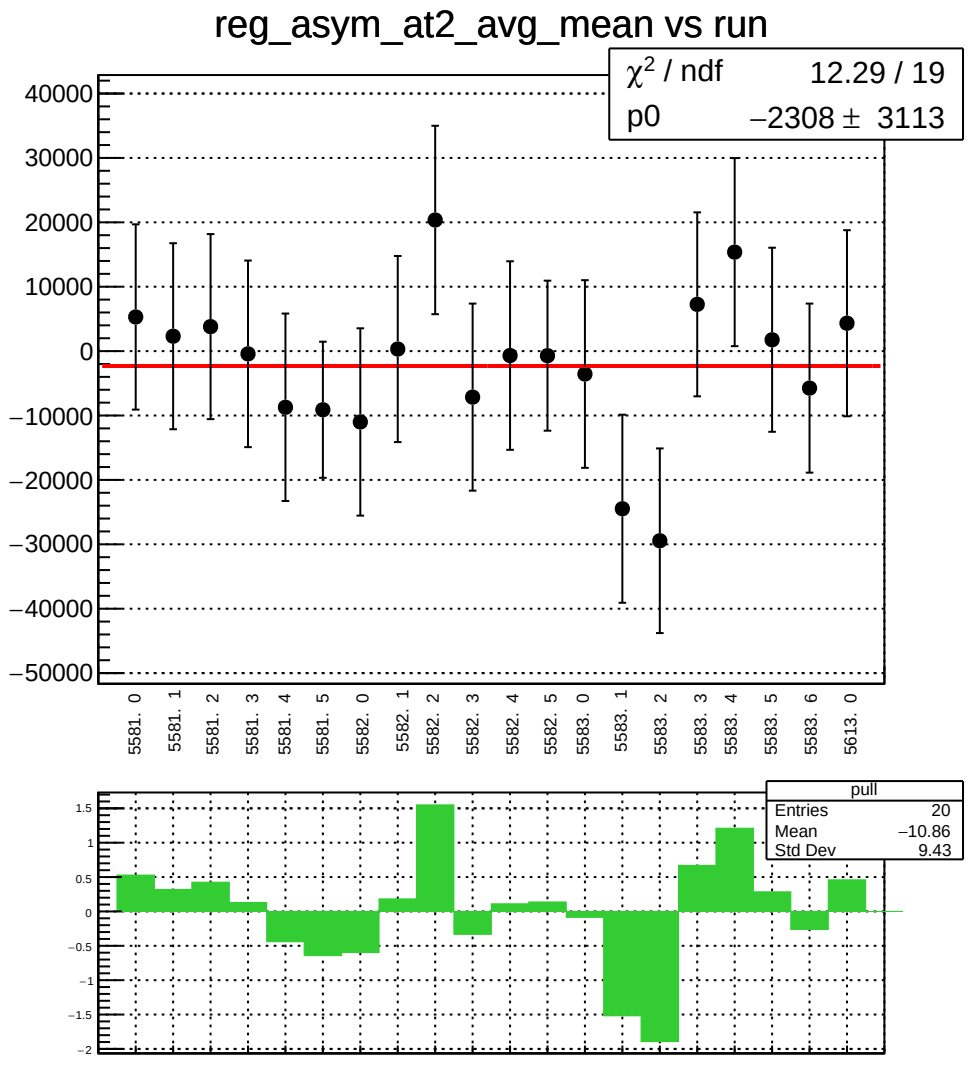

pull1D
Entries 31
Mean −0.05865
Std Dev 1.113
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

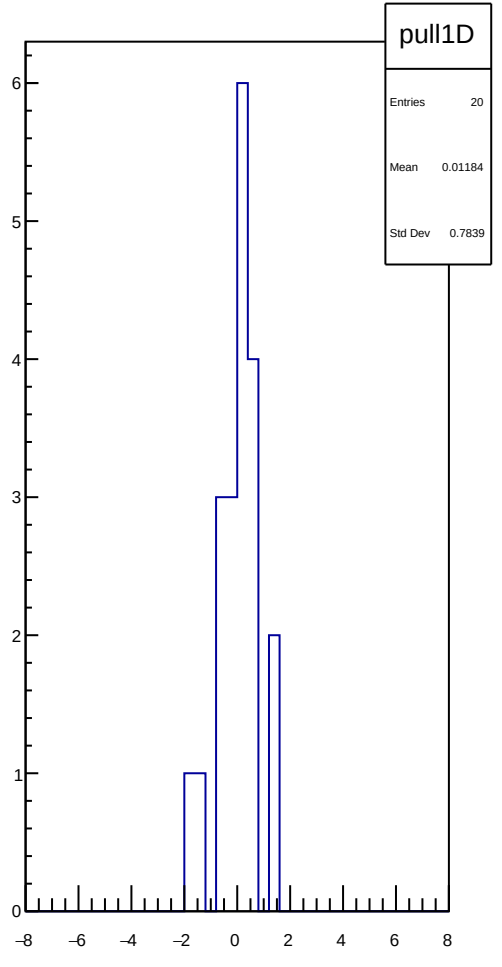

asym_at1_dd_correction_rms vs run
χ² / ndf 3.569e+04 / 30
p0 1065 ± 1.41
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

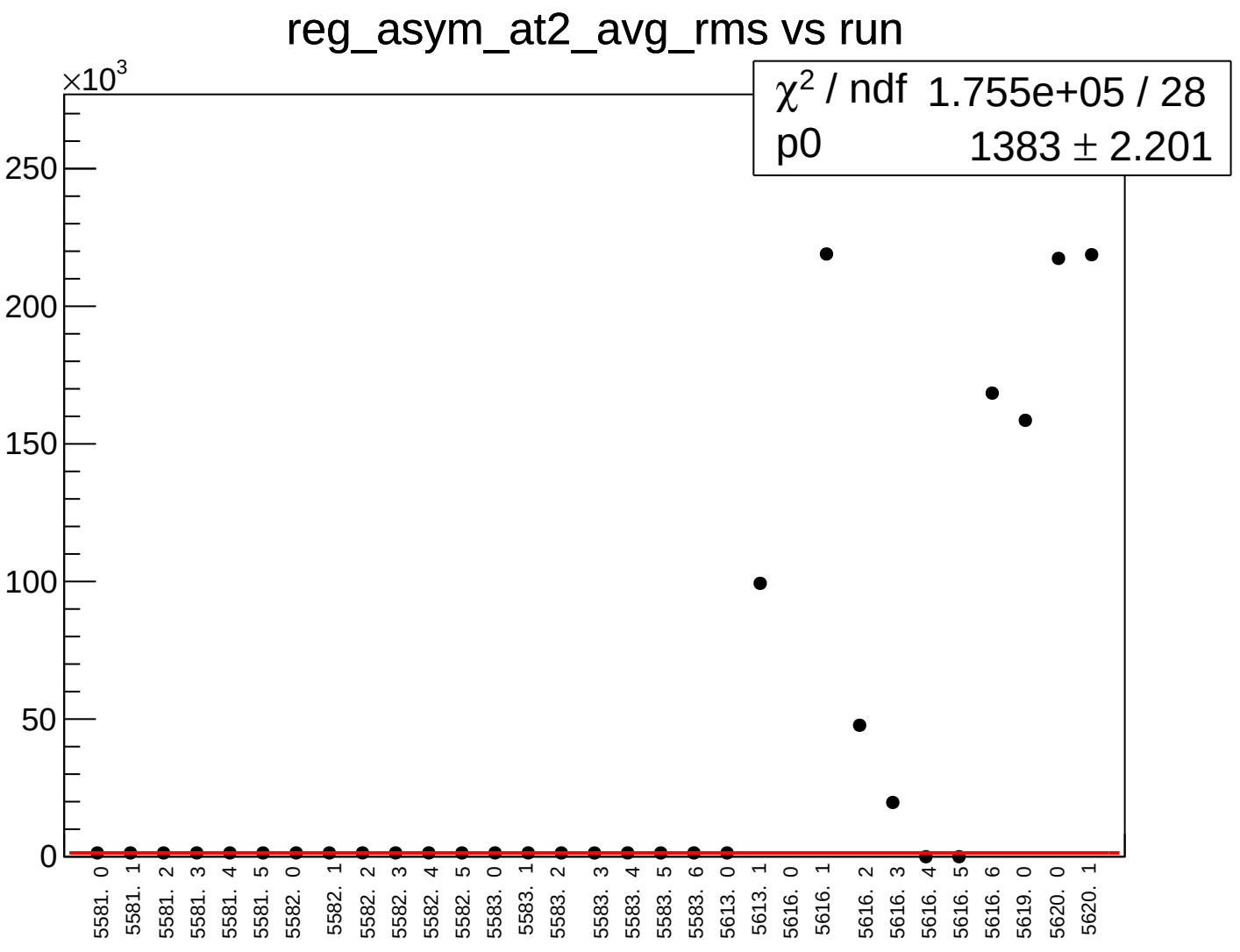

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 27.8 / 30
p0 5475 ± 4684
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 3.341
Std Dev 16.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

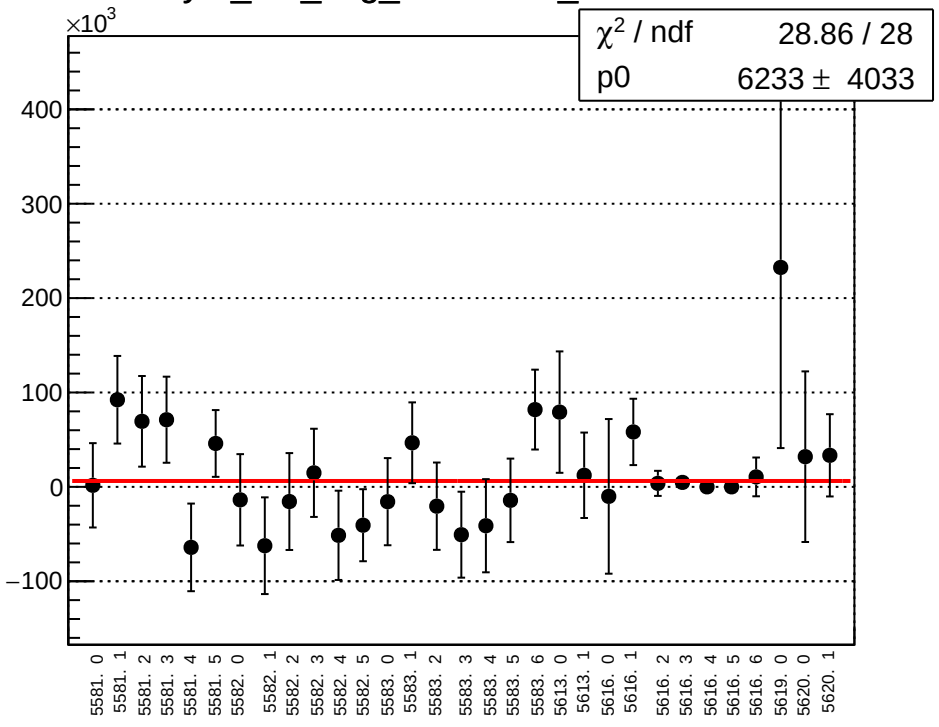

pull1D
Entries 31
Mean 0.04317
Std Dev 0.946
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

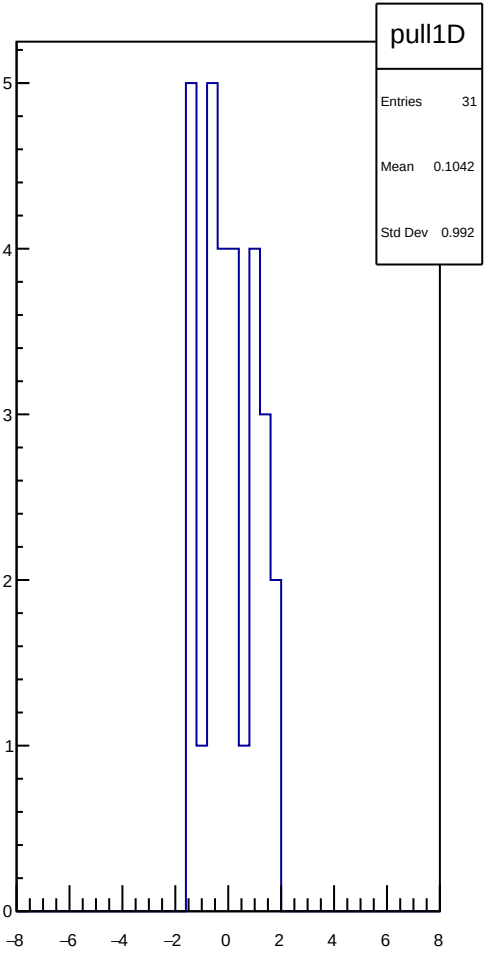

asym_at1_dd_rms vs run
χ² / ndf 2839 / 30
p0 2573 ± 3.312
3000
2900
2800
2700
2600
2500
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

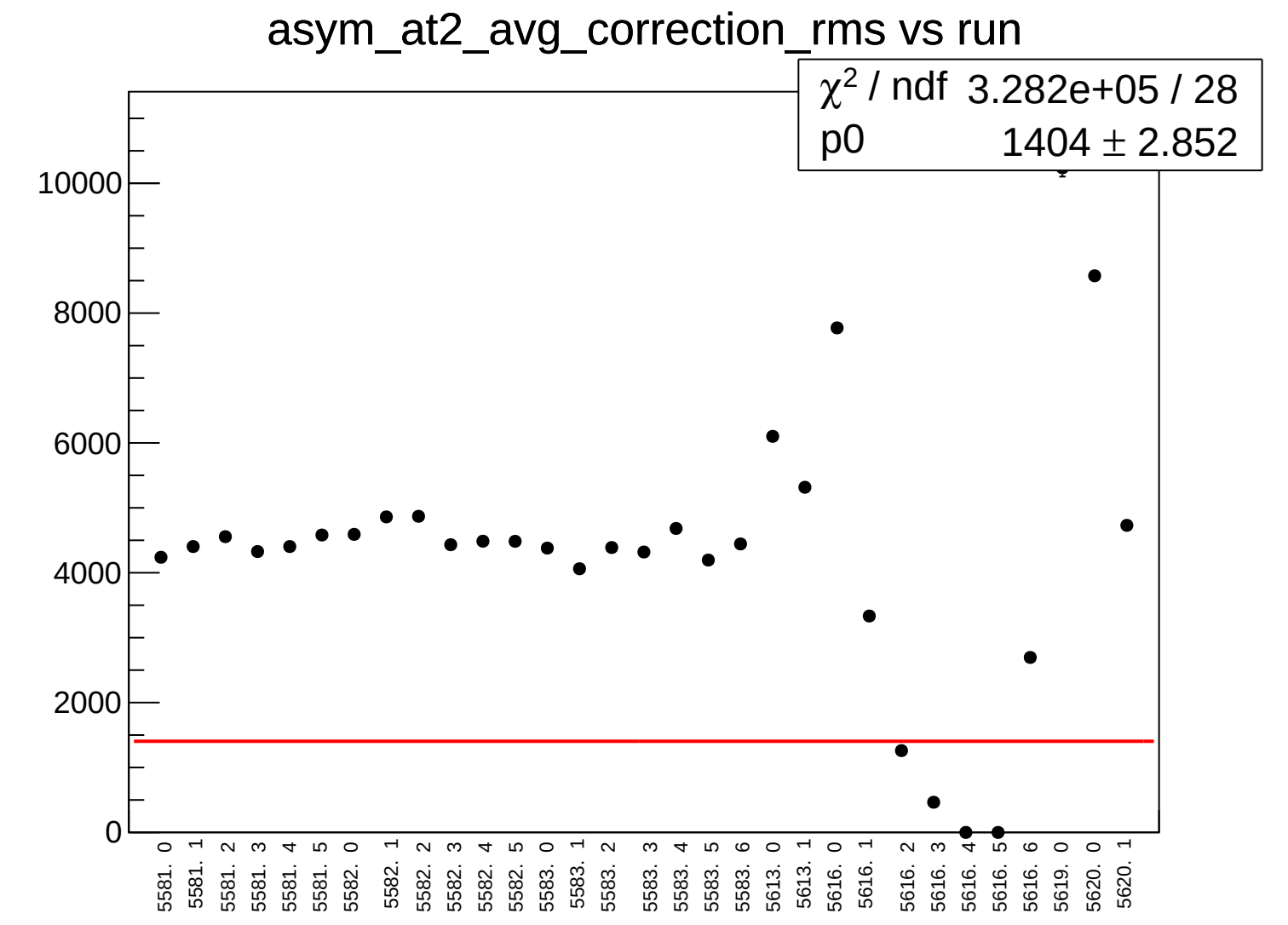

reg_asym_at2_avg_mean vs run
χ² / ndf 12.29 / 19
p0 −2308 ± 3113
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean −10.86
Std Dev 9.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2

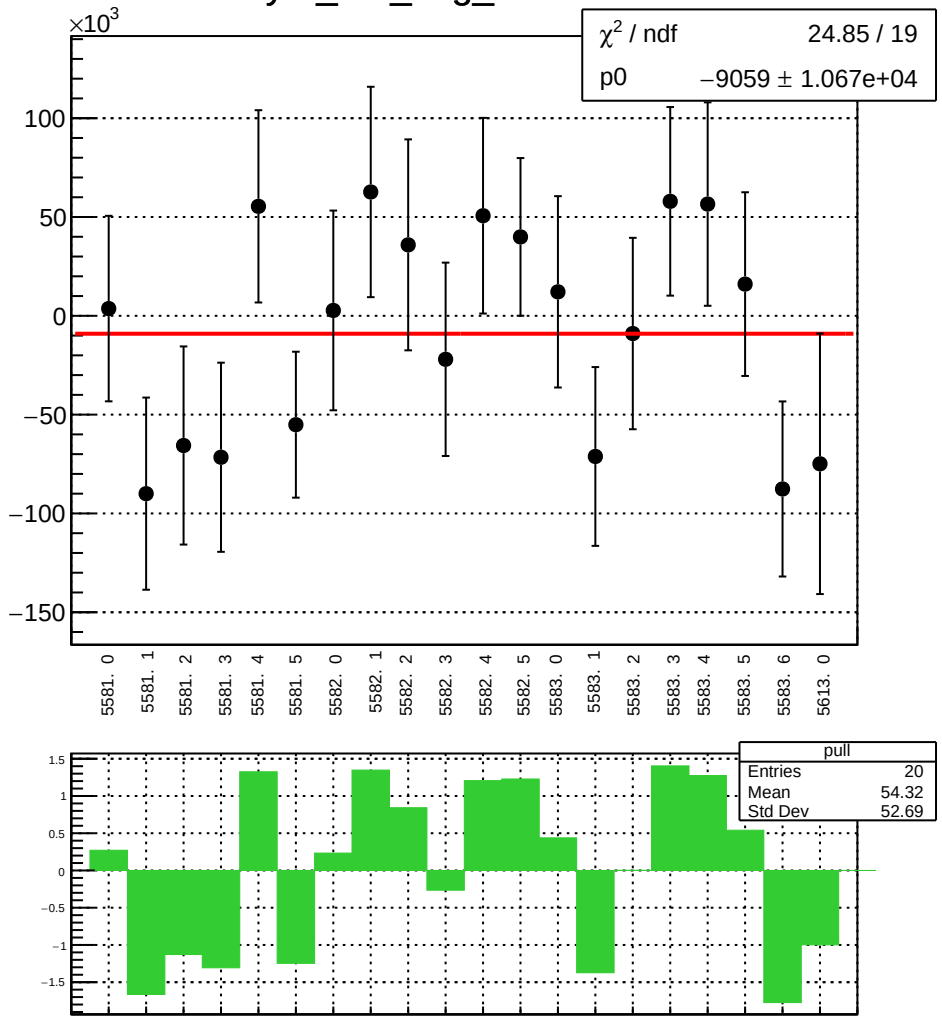

pull1D
Entries 20
Mean 0.01184
Std Dev 0.7839
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

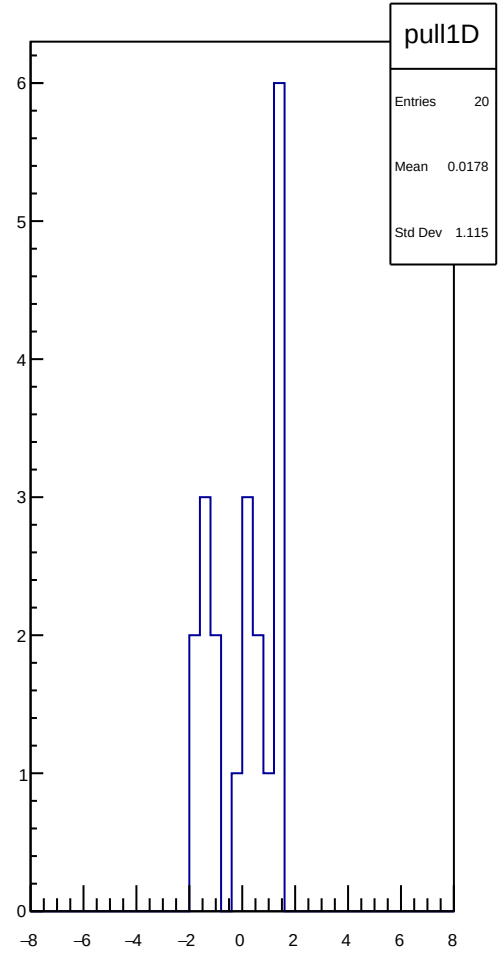

reg_asym_at2_avg_rms vs run
×10^3
χ^2 / ndf 1.755e+05 / 28
p0 1383 ± 2.201
250
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

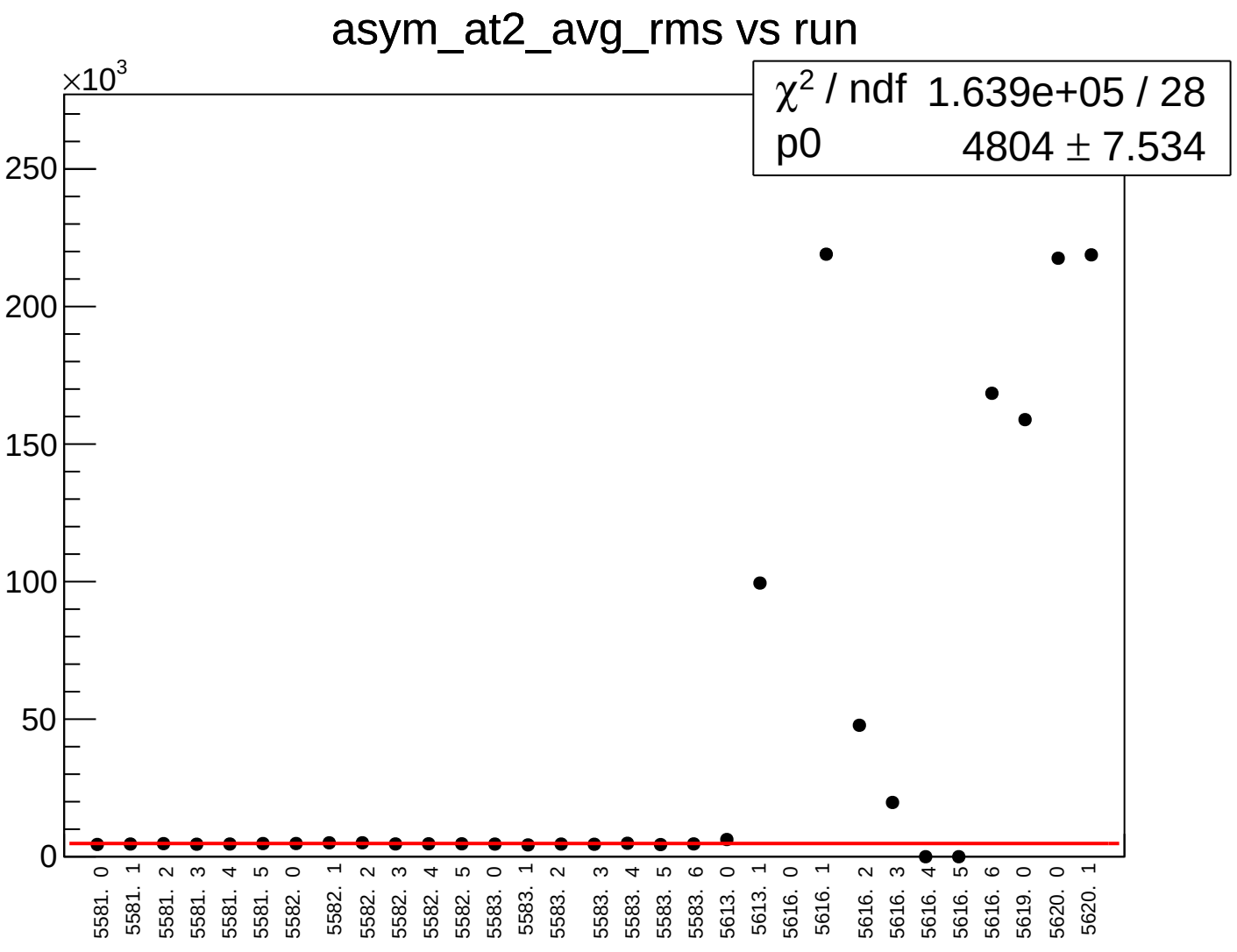

asym_at2_avg_correction_mean vs run
×10^3
χ^2 / ndf 28.86 / 28
p0 6233 ± 4033
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

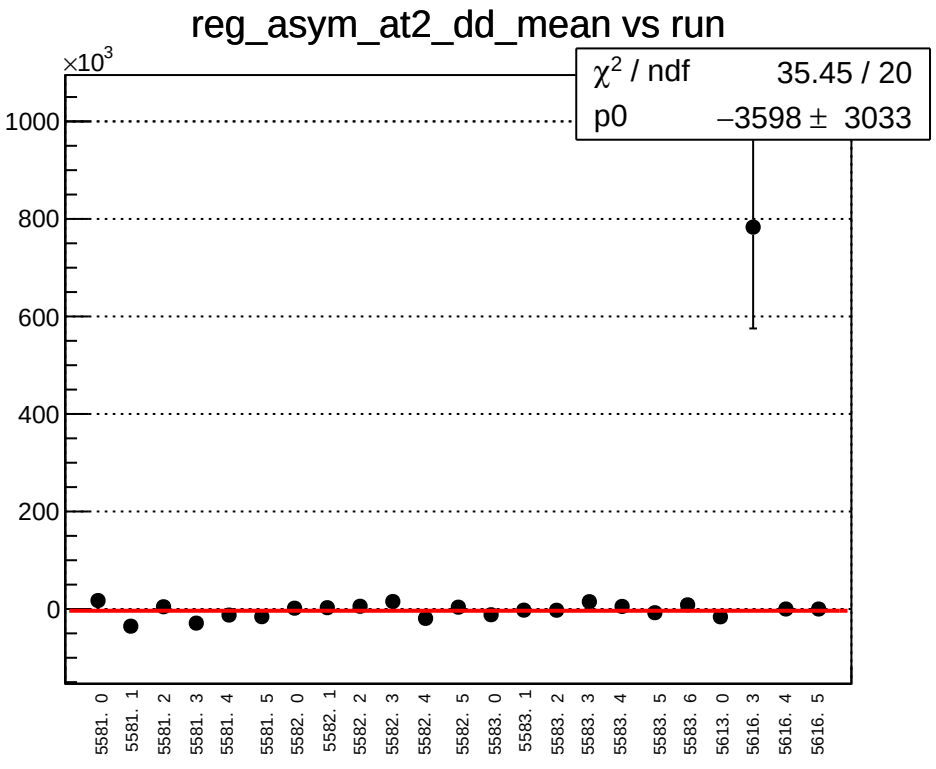

pull1D
Entries 31
Mean 0.1042
Std Dev 0.992
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

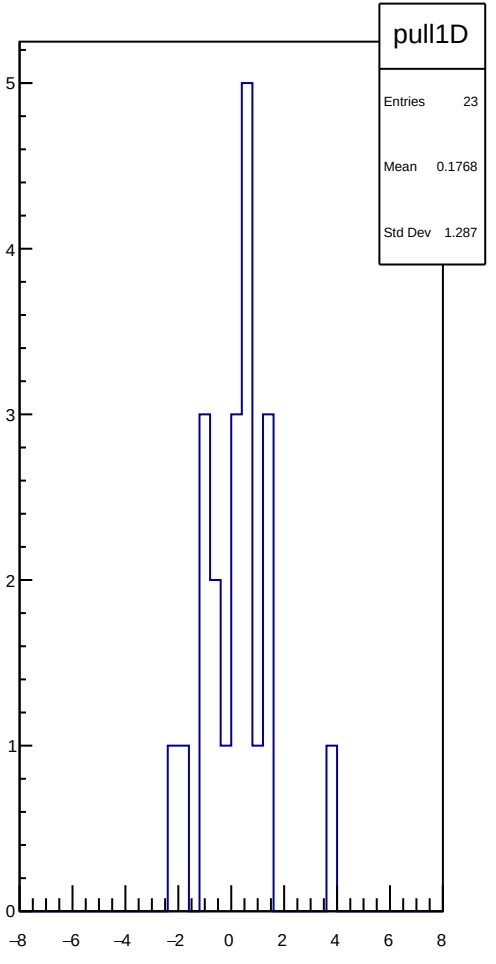

asym_at2_avg_correction_rms vs run
χ² / ndf 3.282e+05 / 28
p0 1404 ± 2.852
10000
8000
6000
4000
2000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

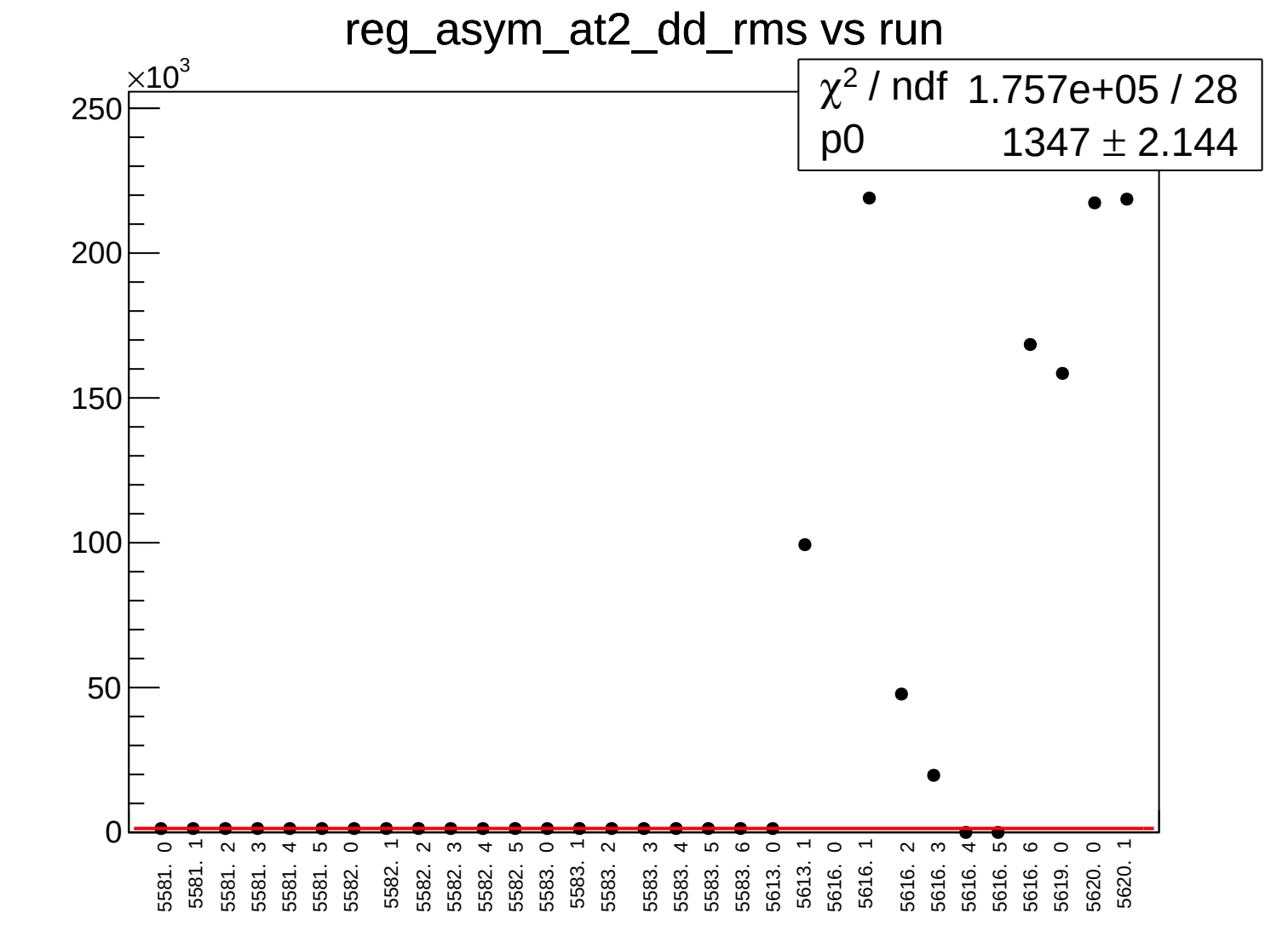

asym_at2_avg_mean vs run
×10^3
χ² / ndf 24.85 / 19
p0 −9059 ± 1.067e+04
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 54.32
Std Dev 52.69
1.5
1
0.5
0
−0.5
−1
−1.5

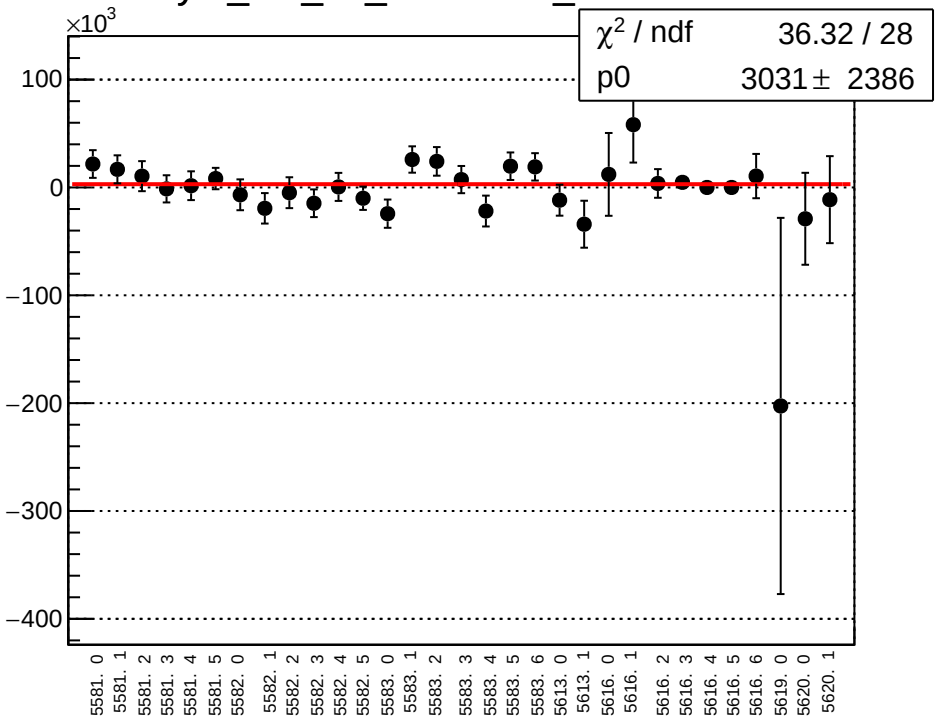

pull1D
Entries 20
Mean 0.0178
Std Dev 1.115
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

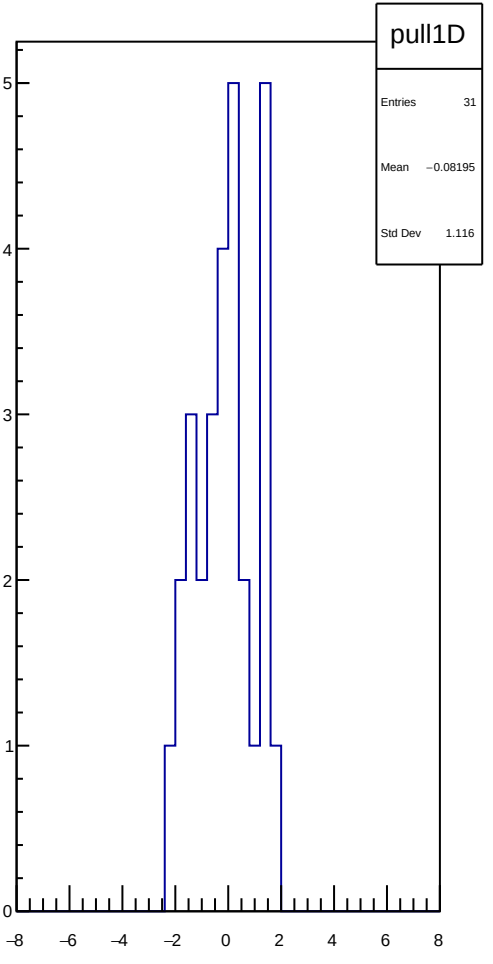

asym_at2_avg_rms vs run
×10^3
χ^2 / ndf 1.639e+05 / 28
p0 4804 ± 7.534
250
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

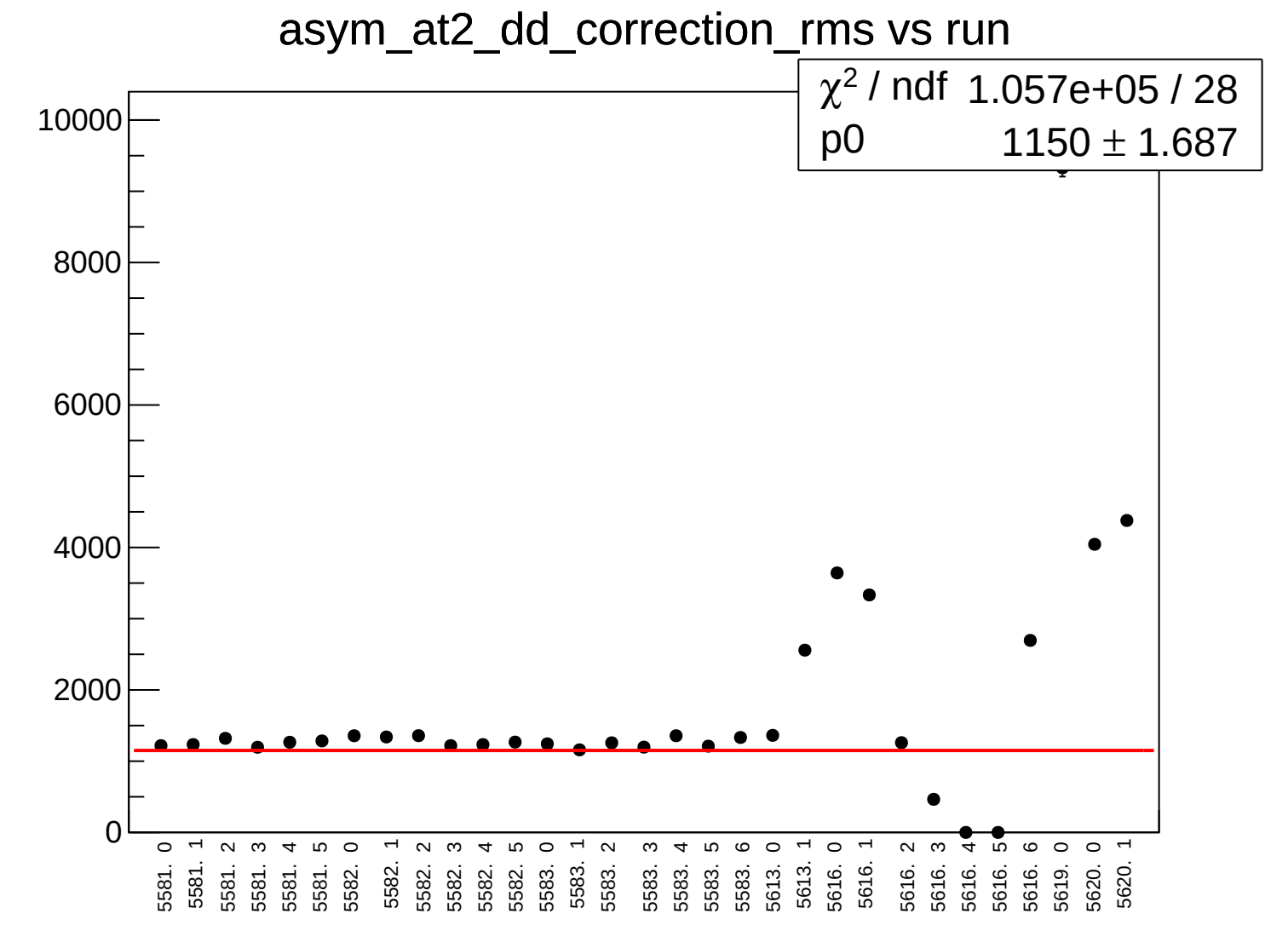

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 35.45 / 20
p0 −3598 ± 3033
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5

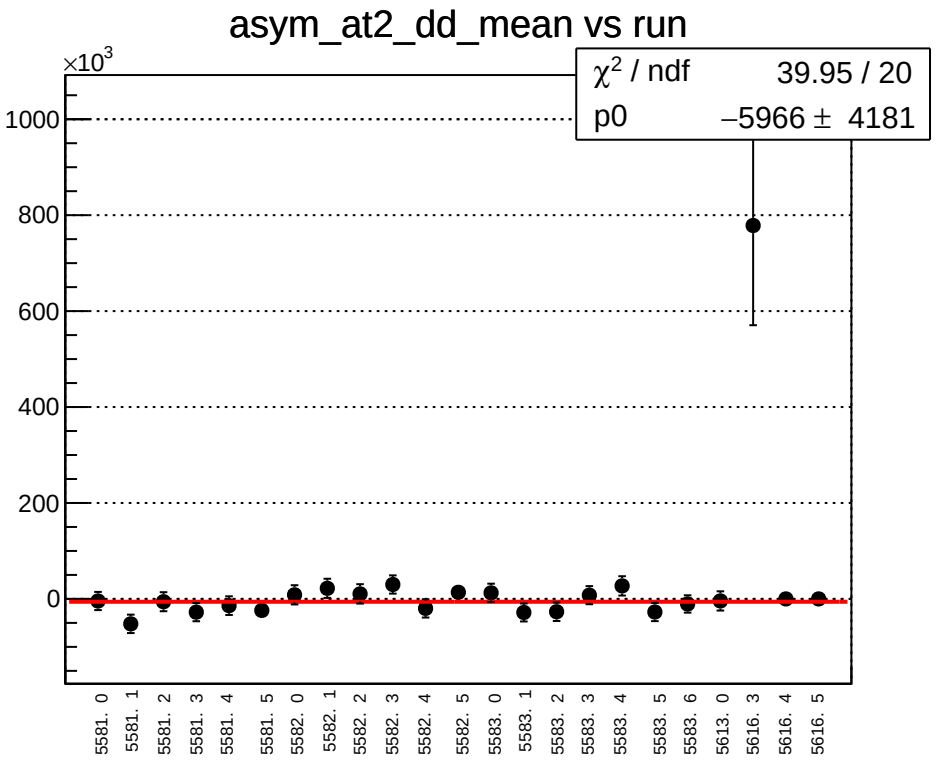

pull1D
Entries 23
Mean 0.1768
Std Dev 1.287
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

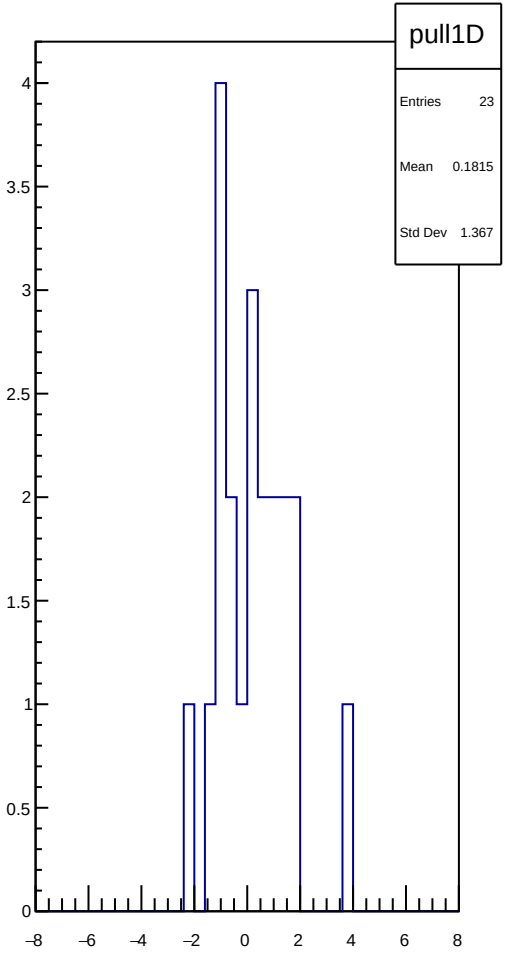

reg_asym_at2_dd_rms vs run
×10^3
250
200
150
100
50
0
χ² / ndf 1.757e+05 / 28
p0 1347 ± 2.144
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

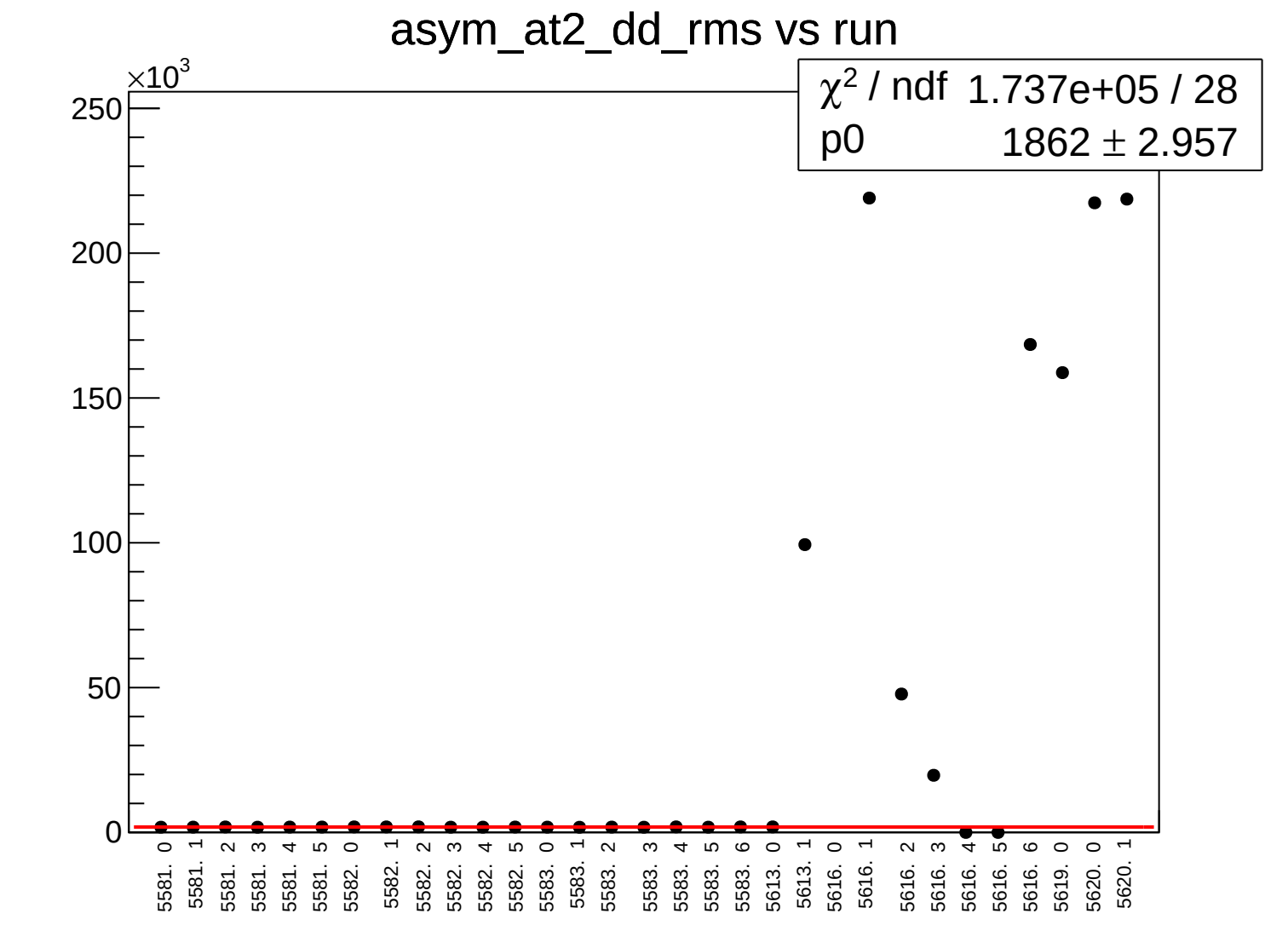

asym_at2_dd_correction_mean vs run
×10^3
χ^2 / ndf 36.32 / 28
p0 3031 ± 2386
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

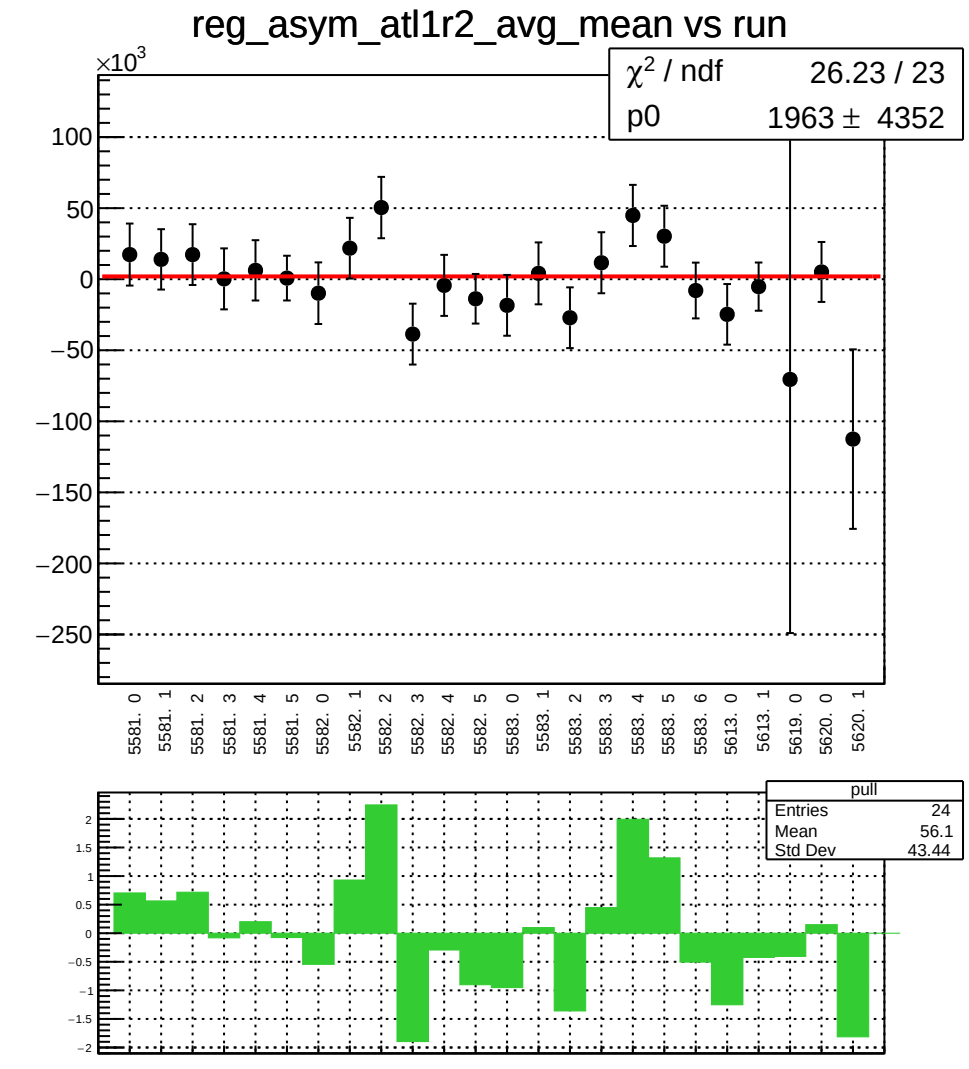

pull1D
Entries 31
Mean −0.08195
Std Dev 1.116
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

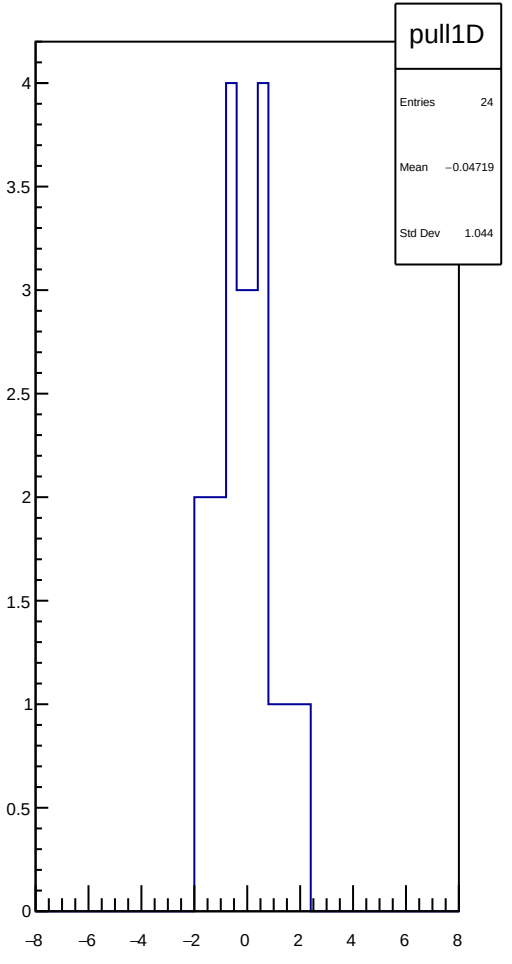

asym_at2_dd_correction_rms vs run
χ² / ndf 1.057e+05 / 28
p0 1150 ± 1.687
10000
8000
6000
4000
2000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

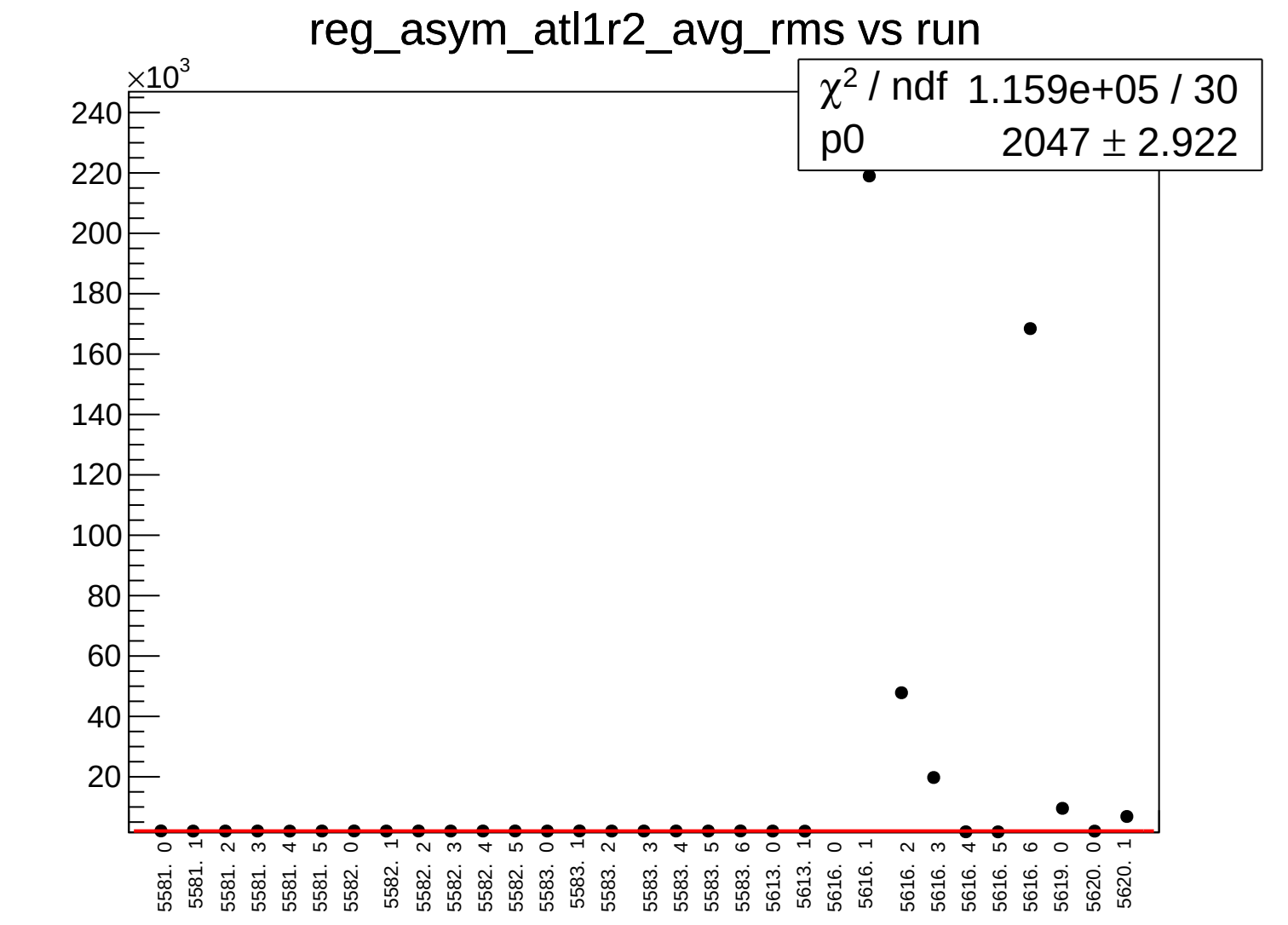

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 39.95 / 20
p0 −5966 ± 4181
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5

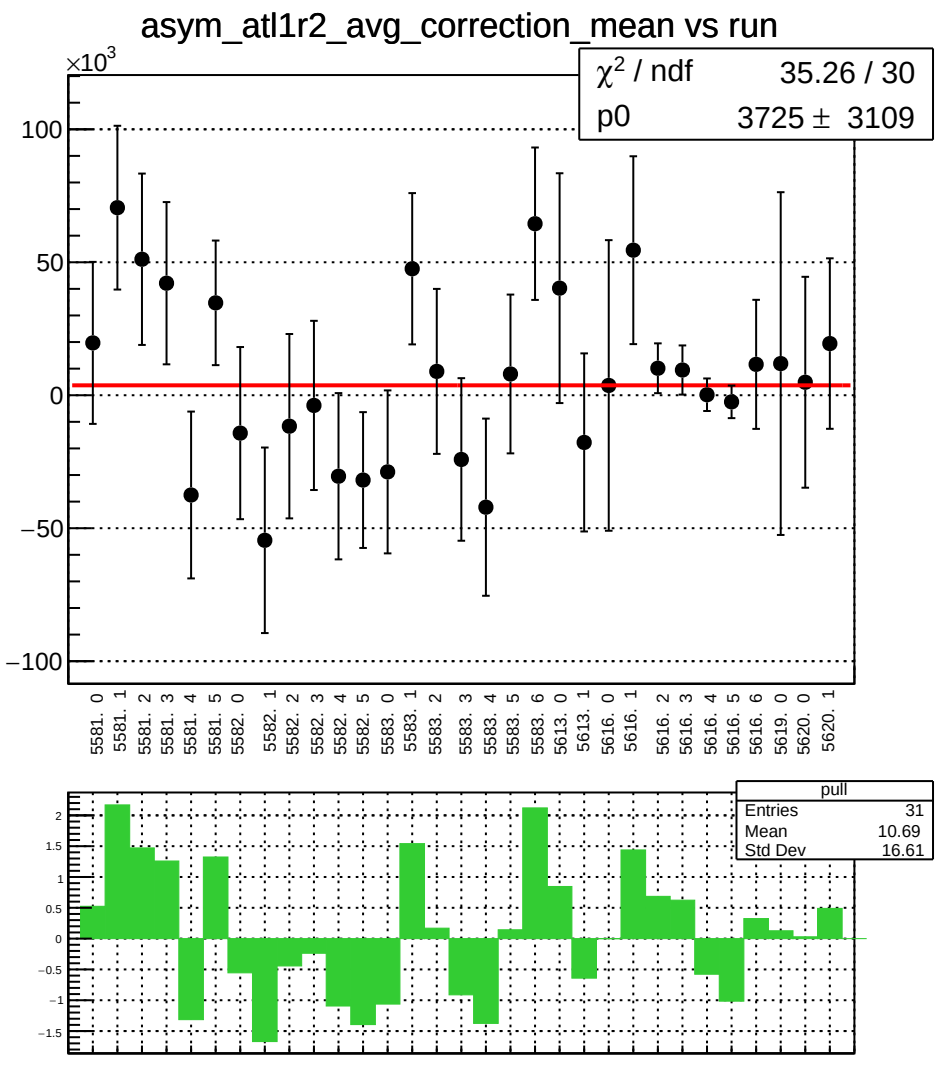

pull1D
Entries 23
Mean 0.1815
Std Dev 1.367
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

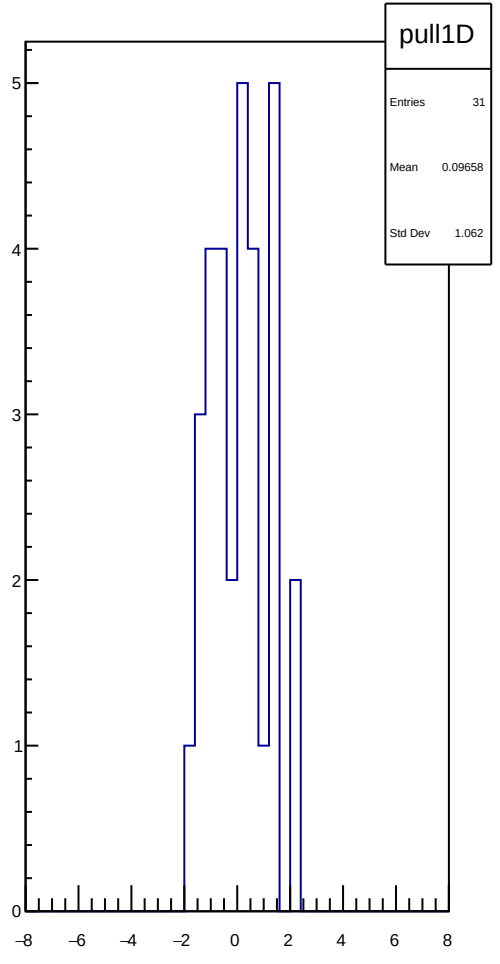

asym_at2_dd_rms vs run
×10^3
250
200
150
100
50
0
χ² / ndf 1.737e+05 / 28
p0 1862 ± 2.957
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

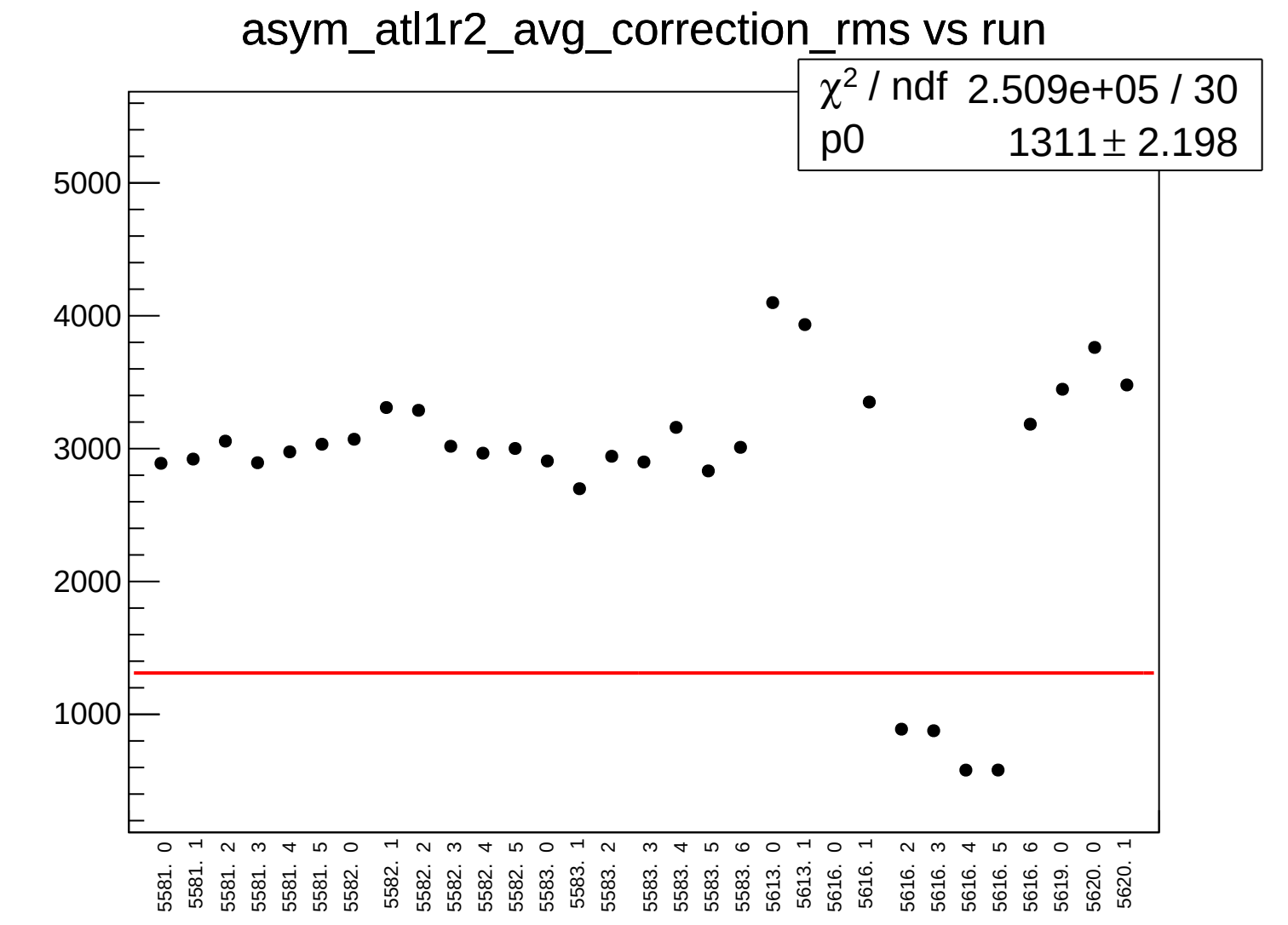

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 26.23 / 23
p0 1963 ± 4352
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 56.1
Std Dev 43.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

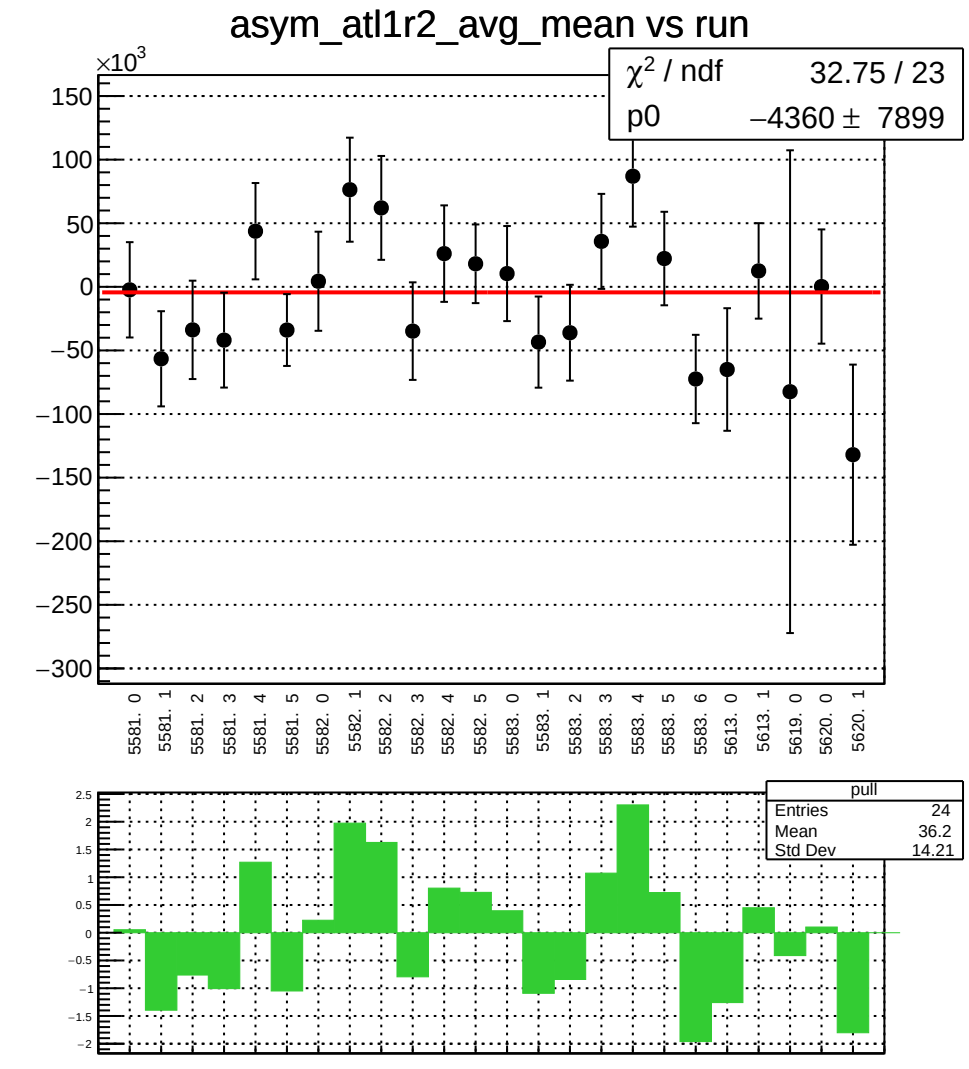

pull1D
Entries 24
Mean −0.04719
Std Dev 1.044
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

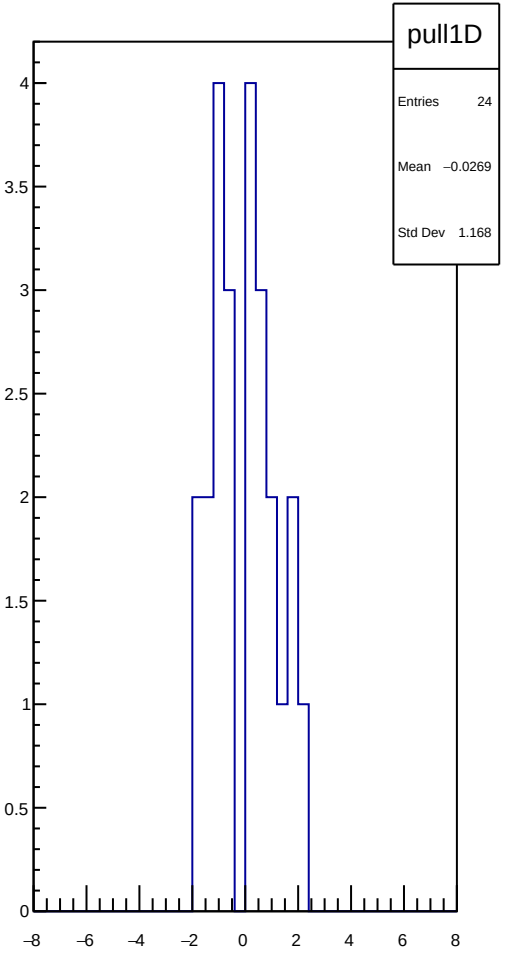

reg_asym_atl1r2_avg_rms vs run
×10^3
χ^2 / ndf 1.159e+05 / 30
p0 2047 ± 2.922
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

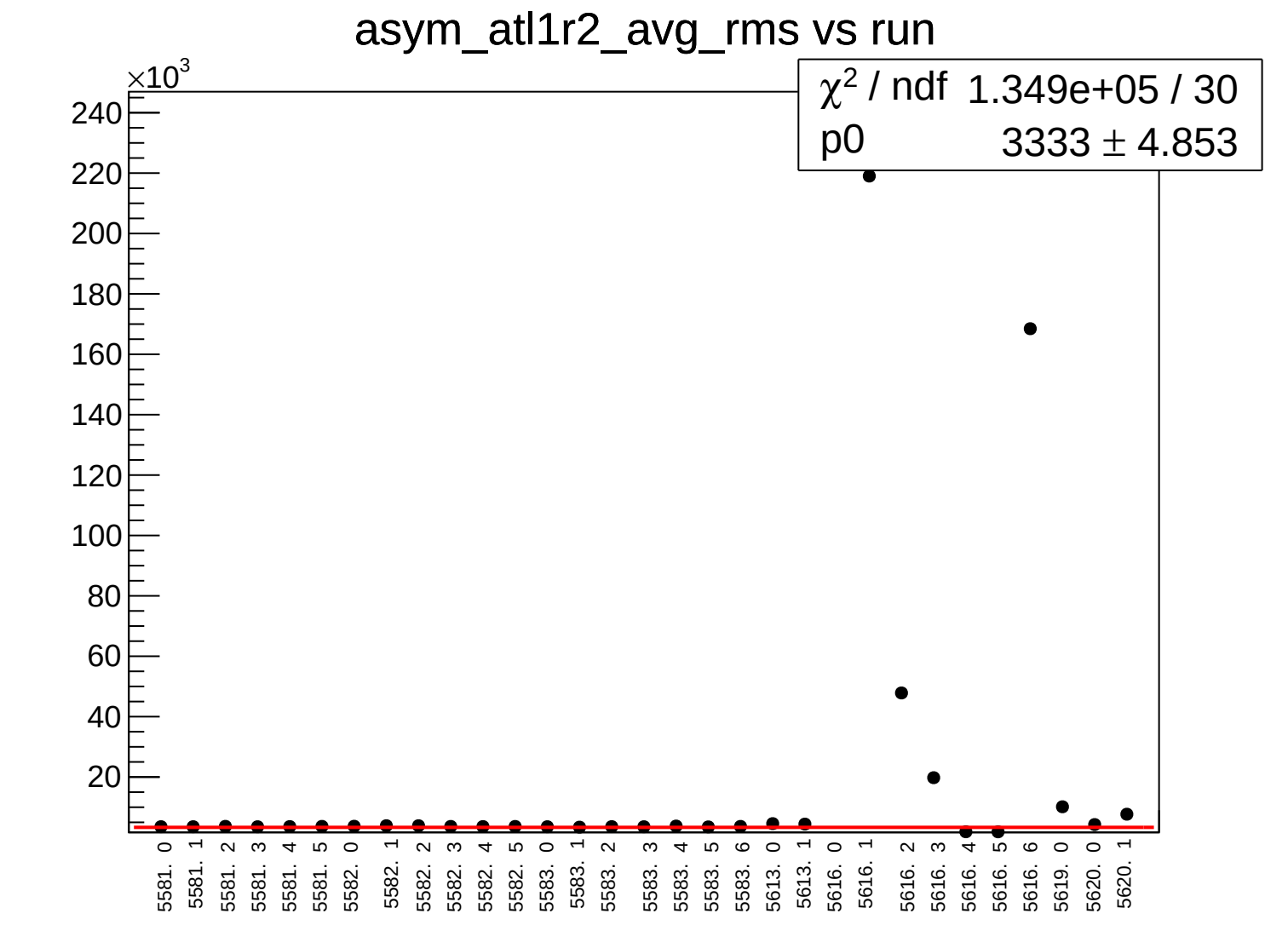

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 35.26 / 30
p0 3725 ± 3109
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.69
Std Dev 16.61
2
1.5
1
0.5
0
−0.5
−1
−1.5

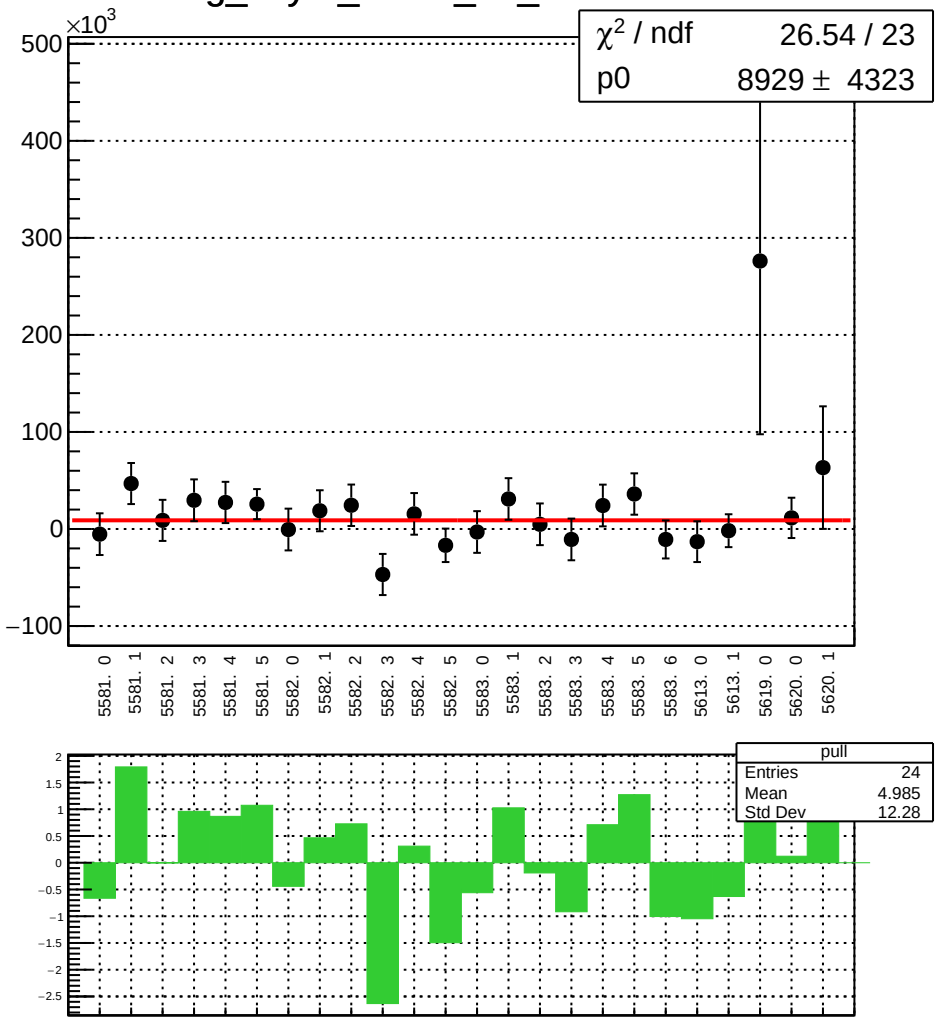

pull1D
Entries 31
Mean 0.09658
Std Dev 1.062
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

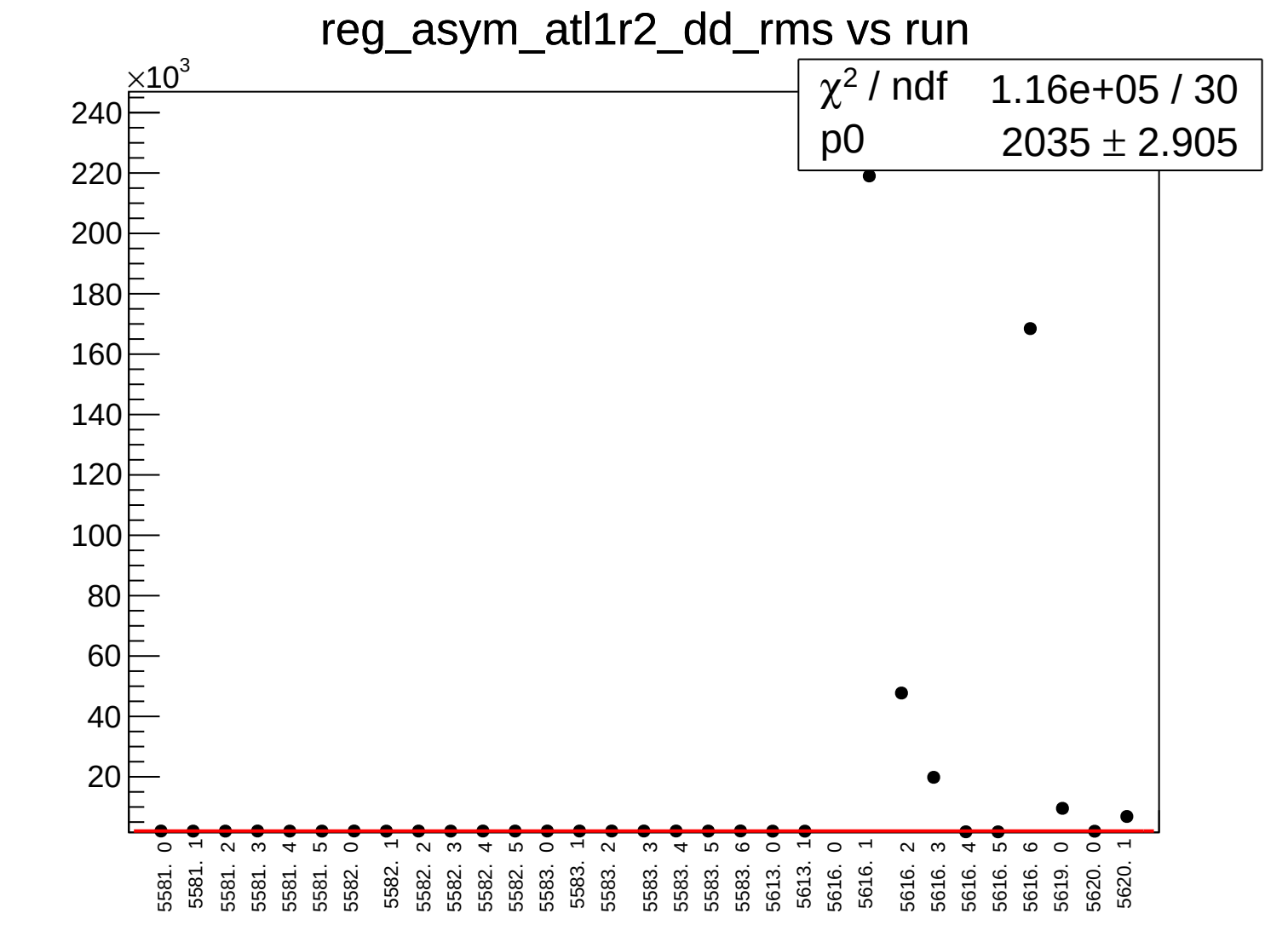

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 2.509e+05 / 30
p0 1311 ± 2.198
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

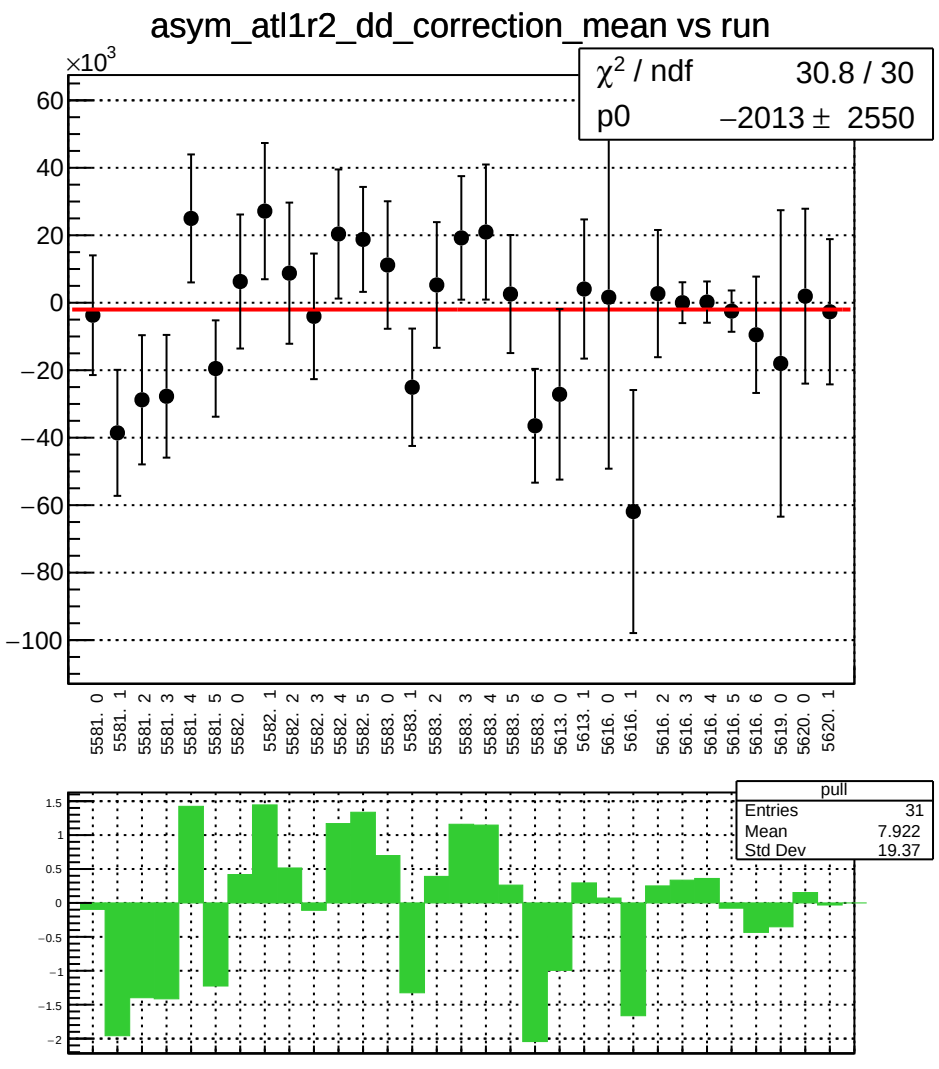

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 32.75 / 23
p0 −4360 ± 7899
150
100
50
0
−50
−100
−150
−200
−250
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 36.2
Std Dev 14.21
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

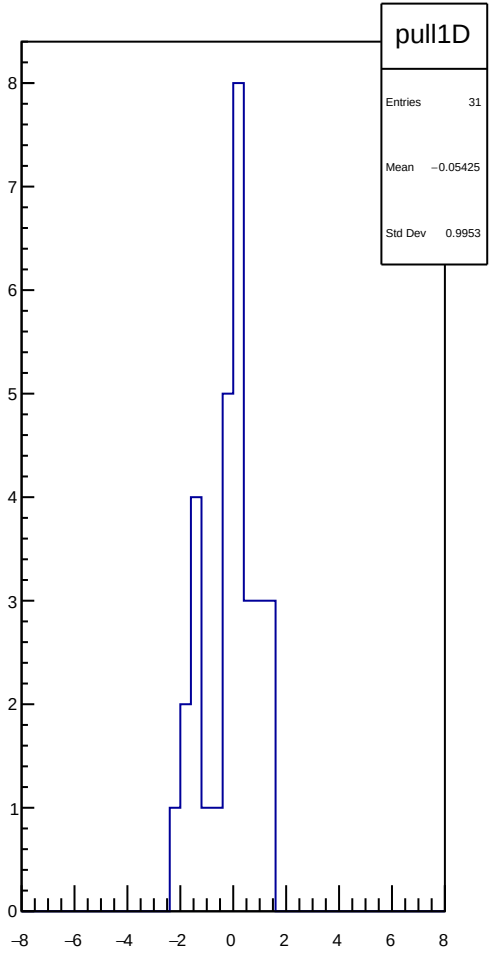

pull1D
Entries 24
Mean −0.0269
Std Dev 1.168
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

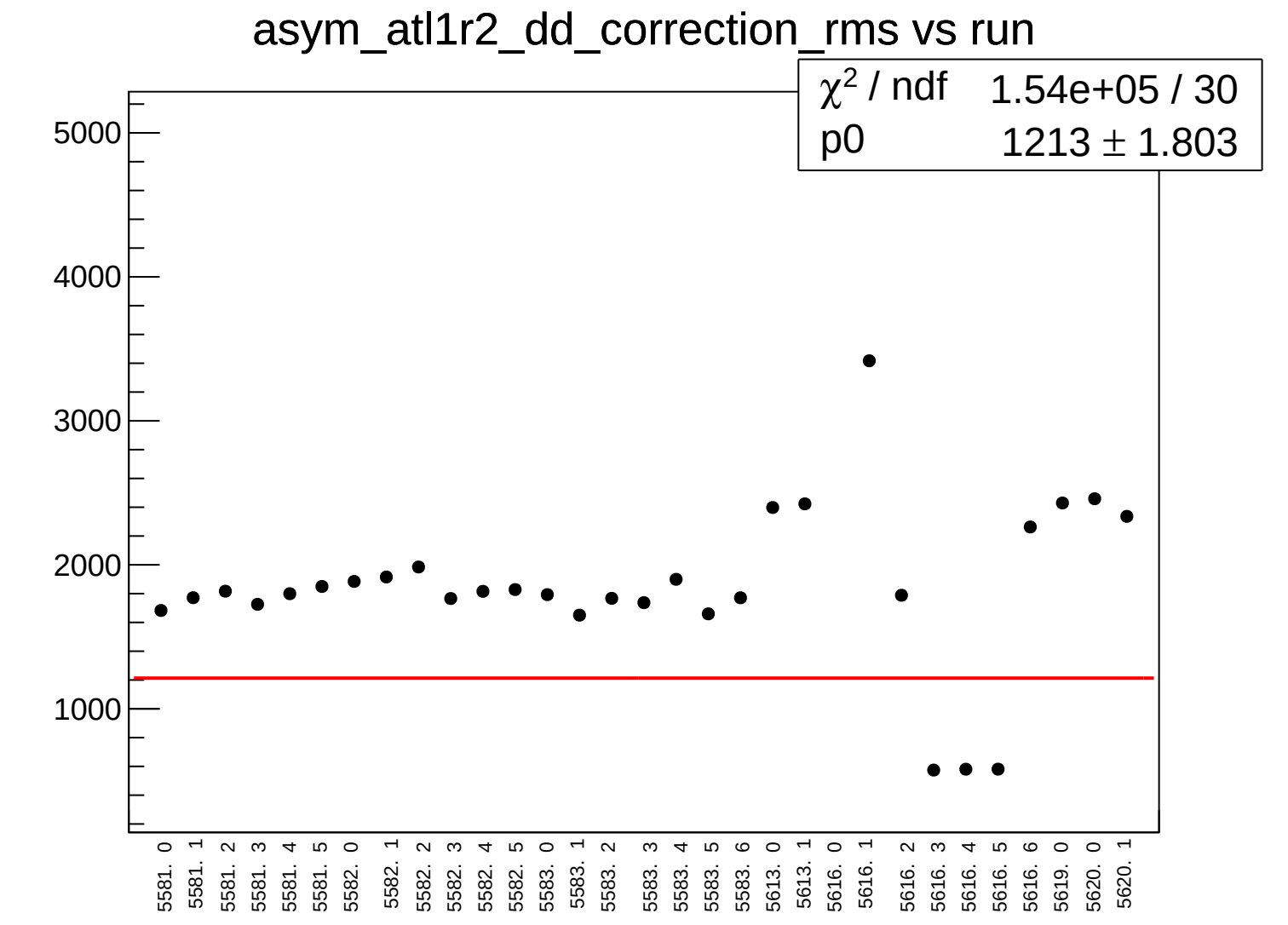

asym_atl1r2_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.349e+05 / 30
p0 3333 ± 4.853
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

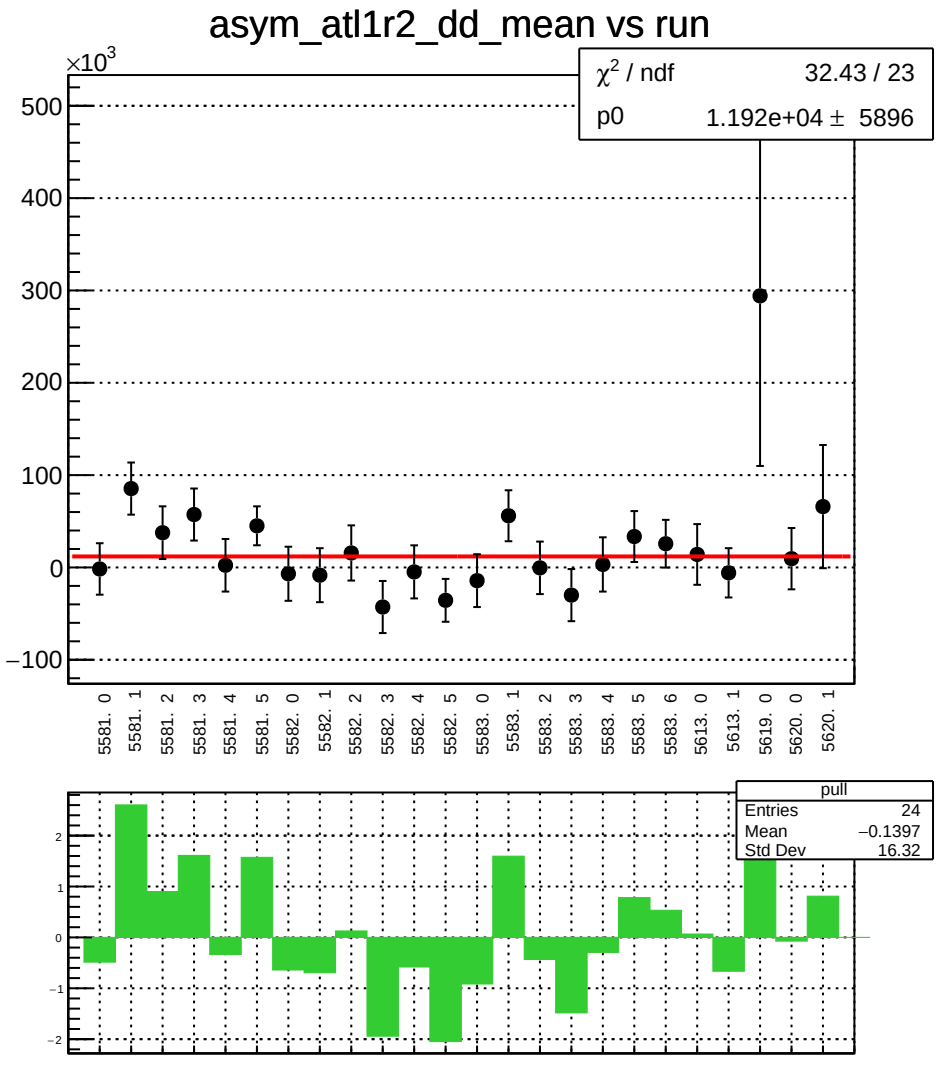

reg_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 26.54 / 23
p0 8929 ± 4323
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean 4.985
Std Dev 12.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.08752
Std Dev 1.048
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

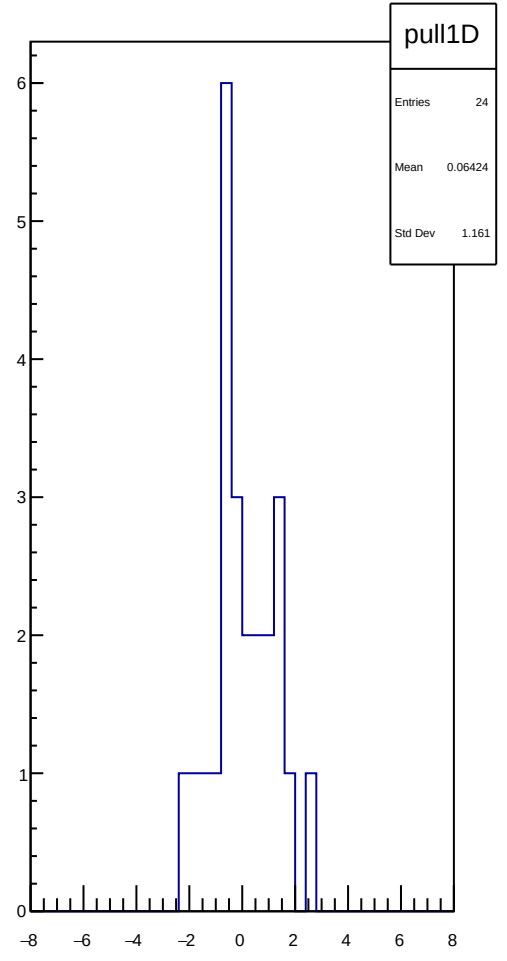

reg_asym_atl1r2_dd_rms vs run
×10^3
χ^2 / ndf 1.16e+05 / 30
p0 2035 ± 2.905
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

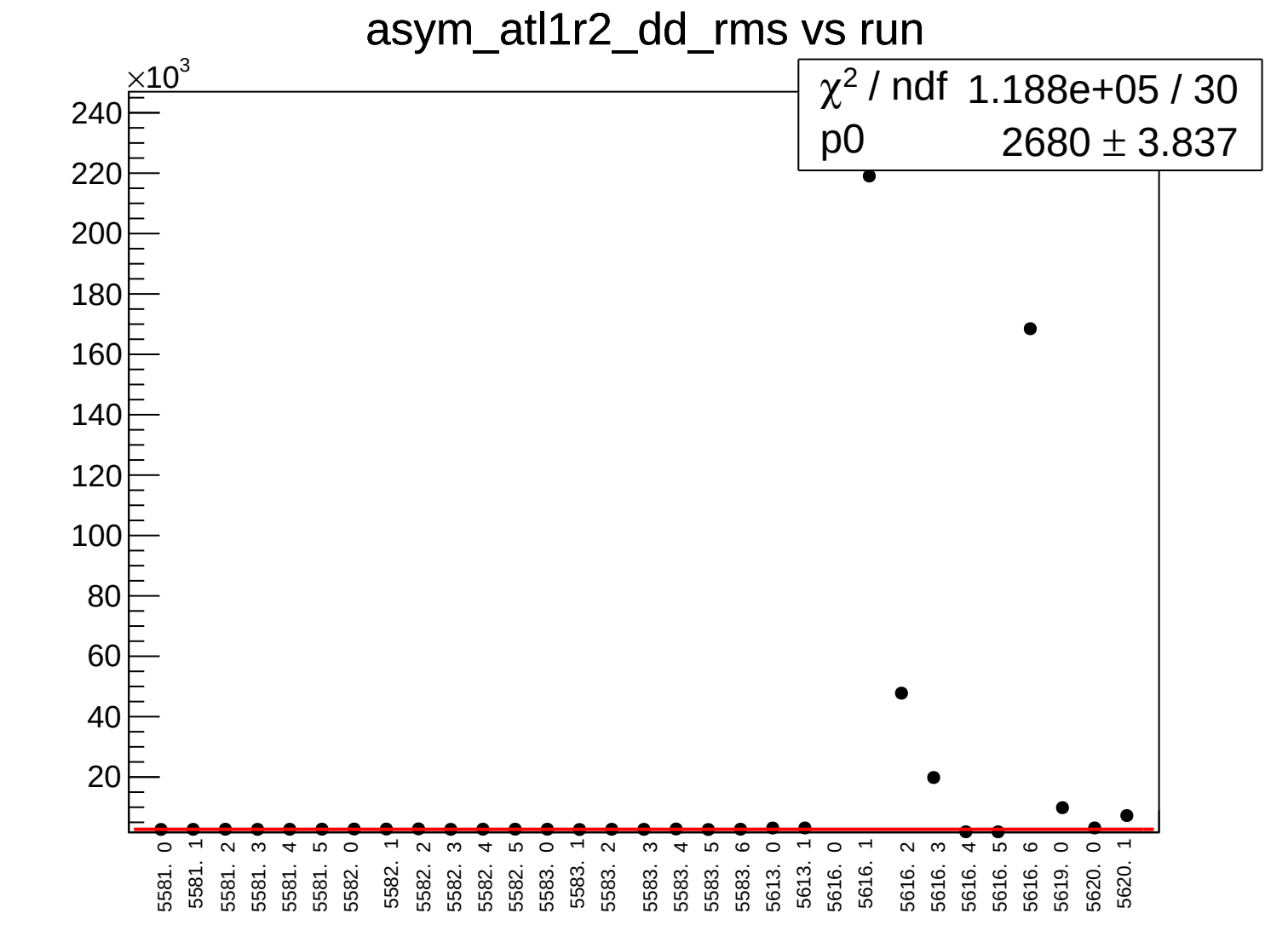

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 30.8 / 30
p0 −2013 ± 2550
×10³
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 7.922
Std Dev 19.37
1.5
1
0.5
0
−0.5
−1
−1.5
−2

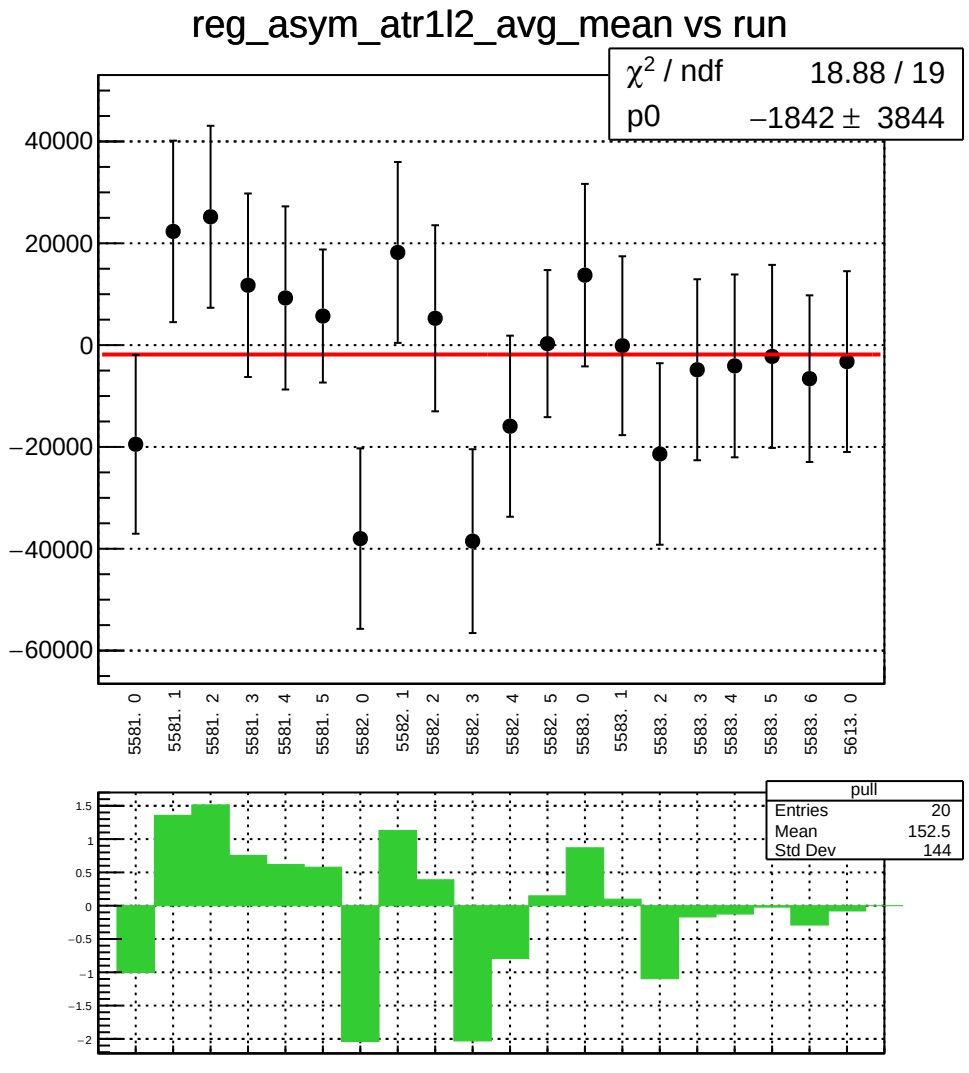

pull1D
Entries 31
Mean −0.05425
Std Dev 0.9953
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

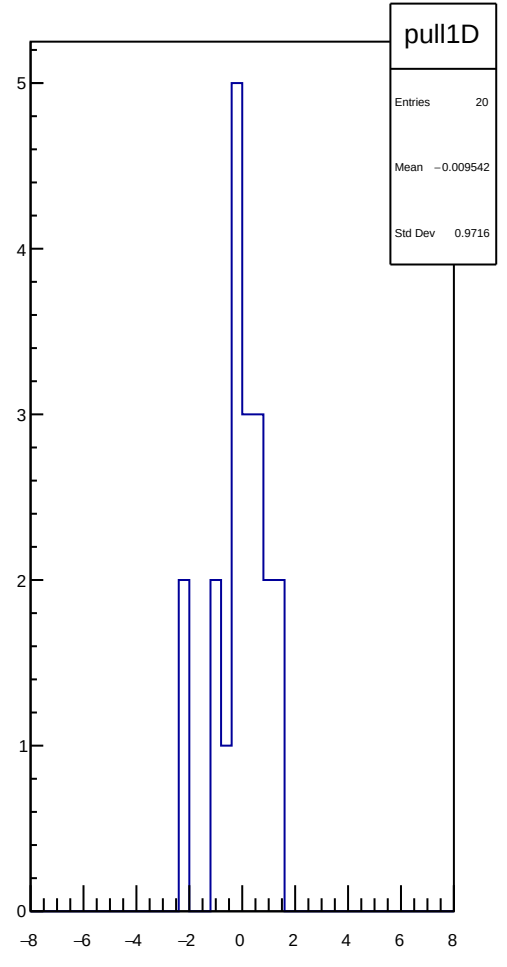

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.54e+05 / 30
p0 1213 ± 1.803
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

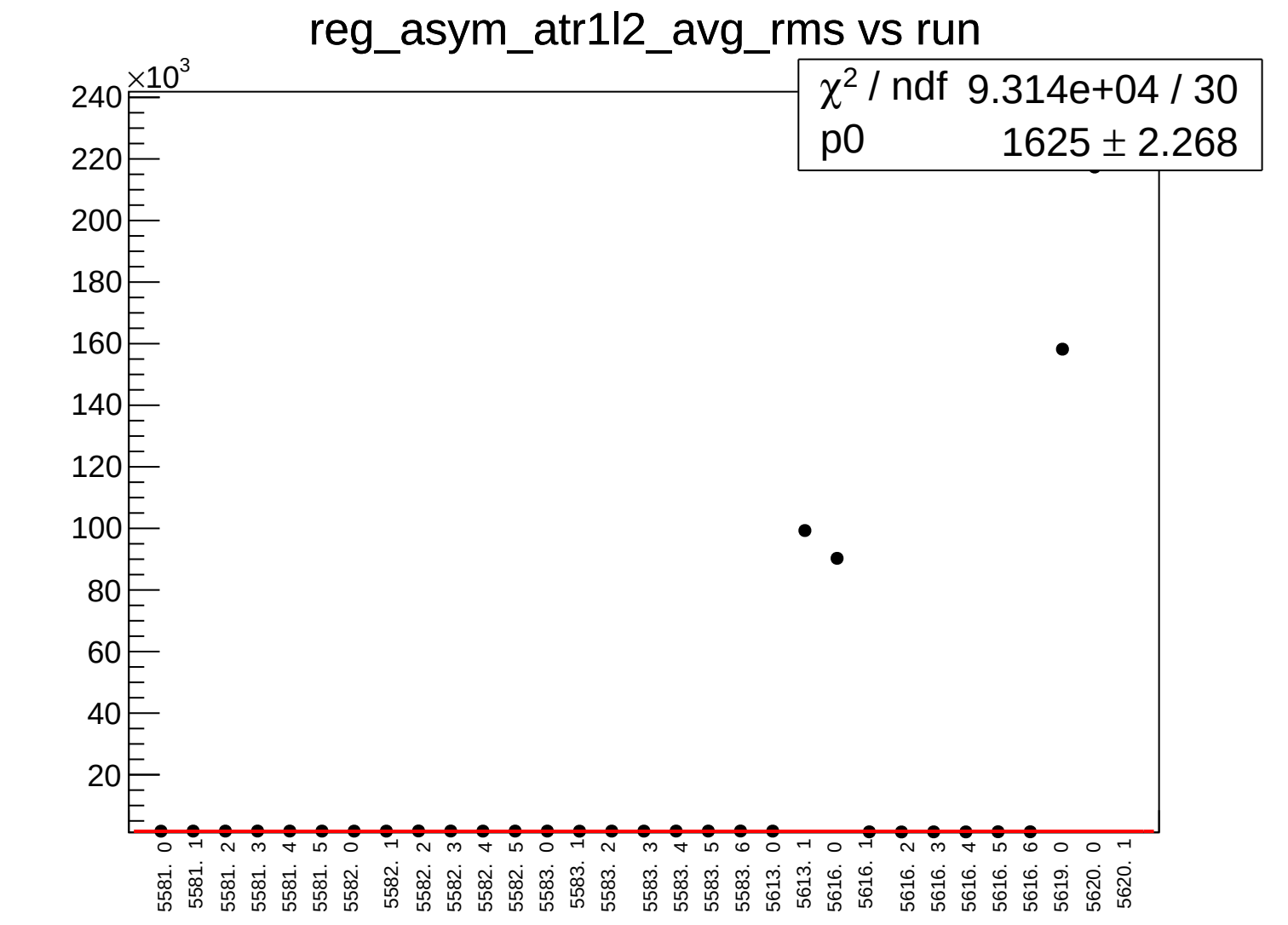

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 32.43 / 23
p0 1.192e+04 ± 5896
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5619. 0
5620. 0
5620. 1
pull
Entries 24
Mean −0.1397
Std Dev 16.32
2
1
0
−1
−2

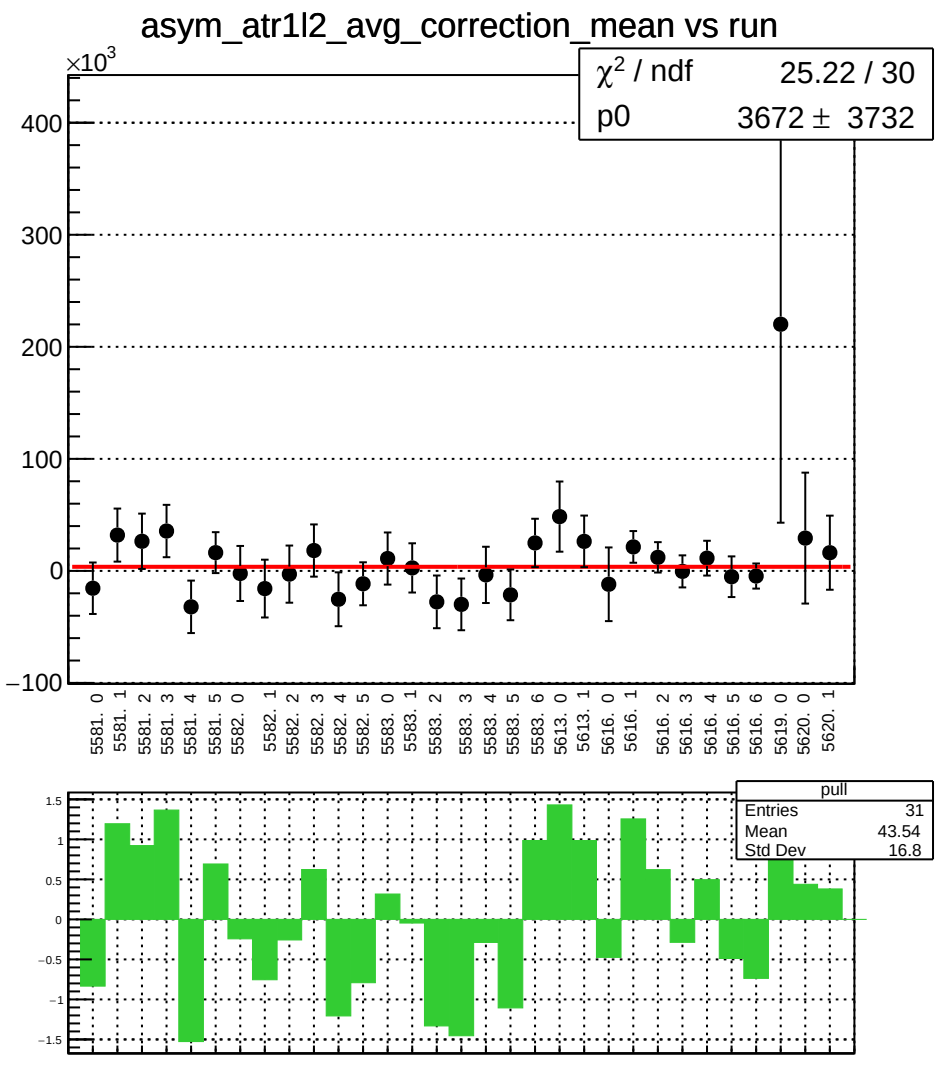

pull1D
Entries 24
Mean 0.06424
Std Dev 1.161
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

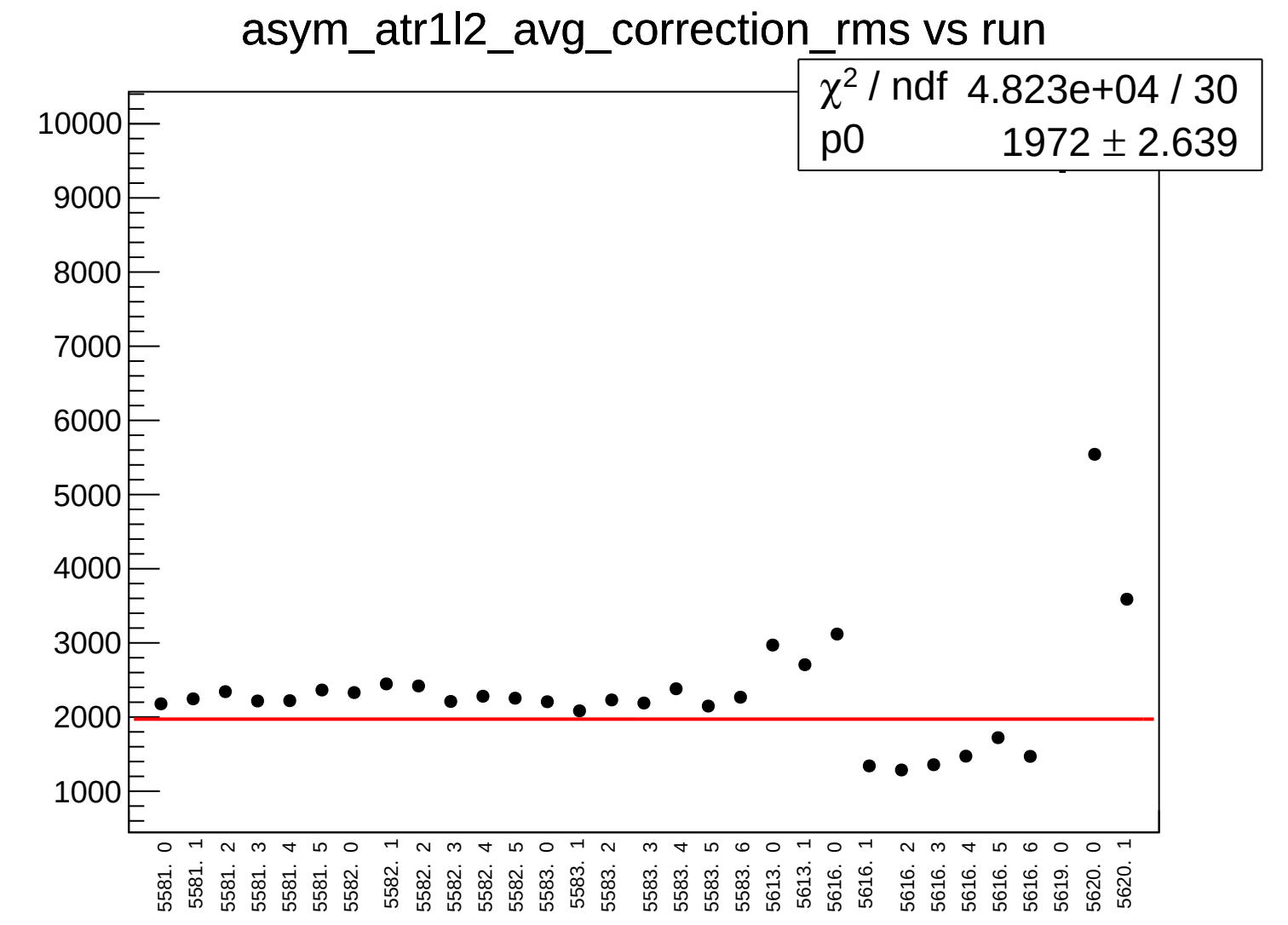

asym_atl1r2_dd_rms vs run
×10^3
χ^2 / ndf 1.188e+05 / 30
p0 2680 ± 3.837
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

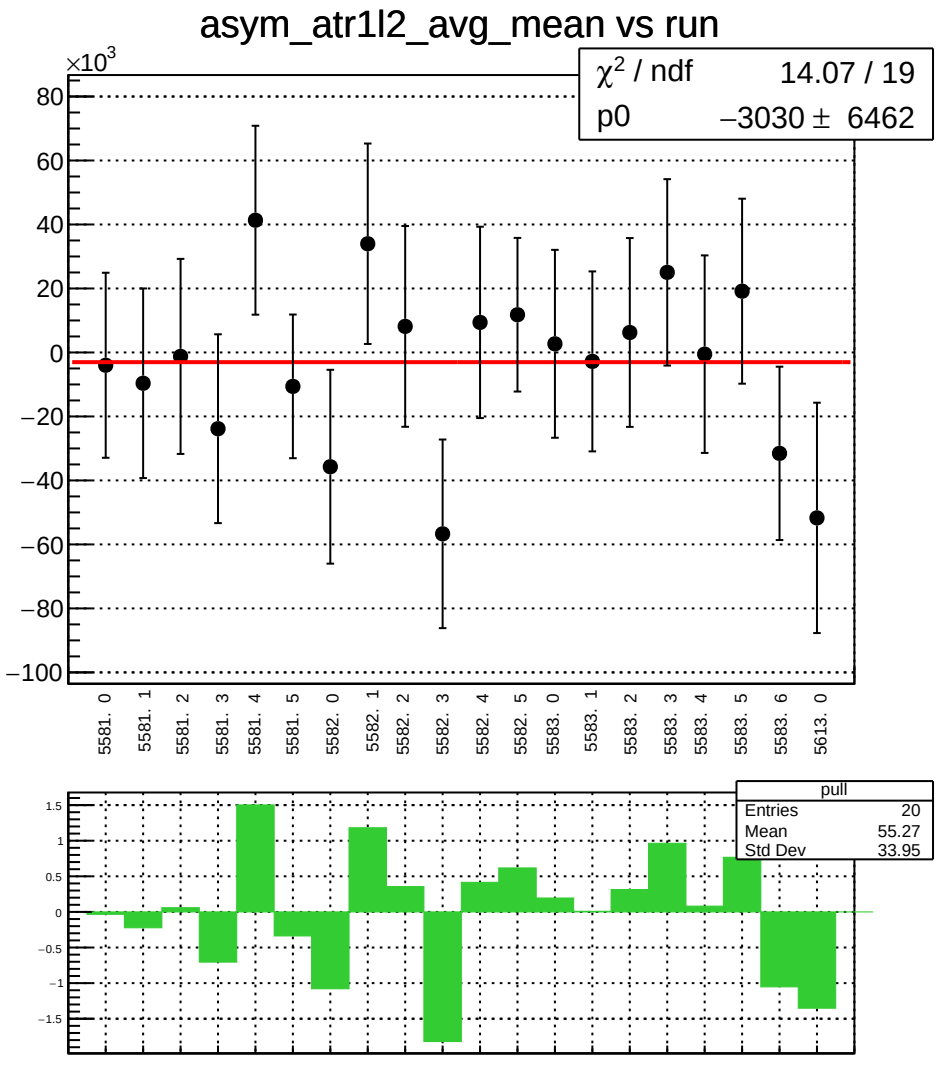

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 18.88 / 19
p0 −1842 ± 3844
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 152.5
Std Dev 144
1.5
1
0.5
0
−0.5
−1
−1.5
−2

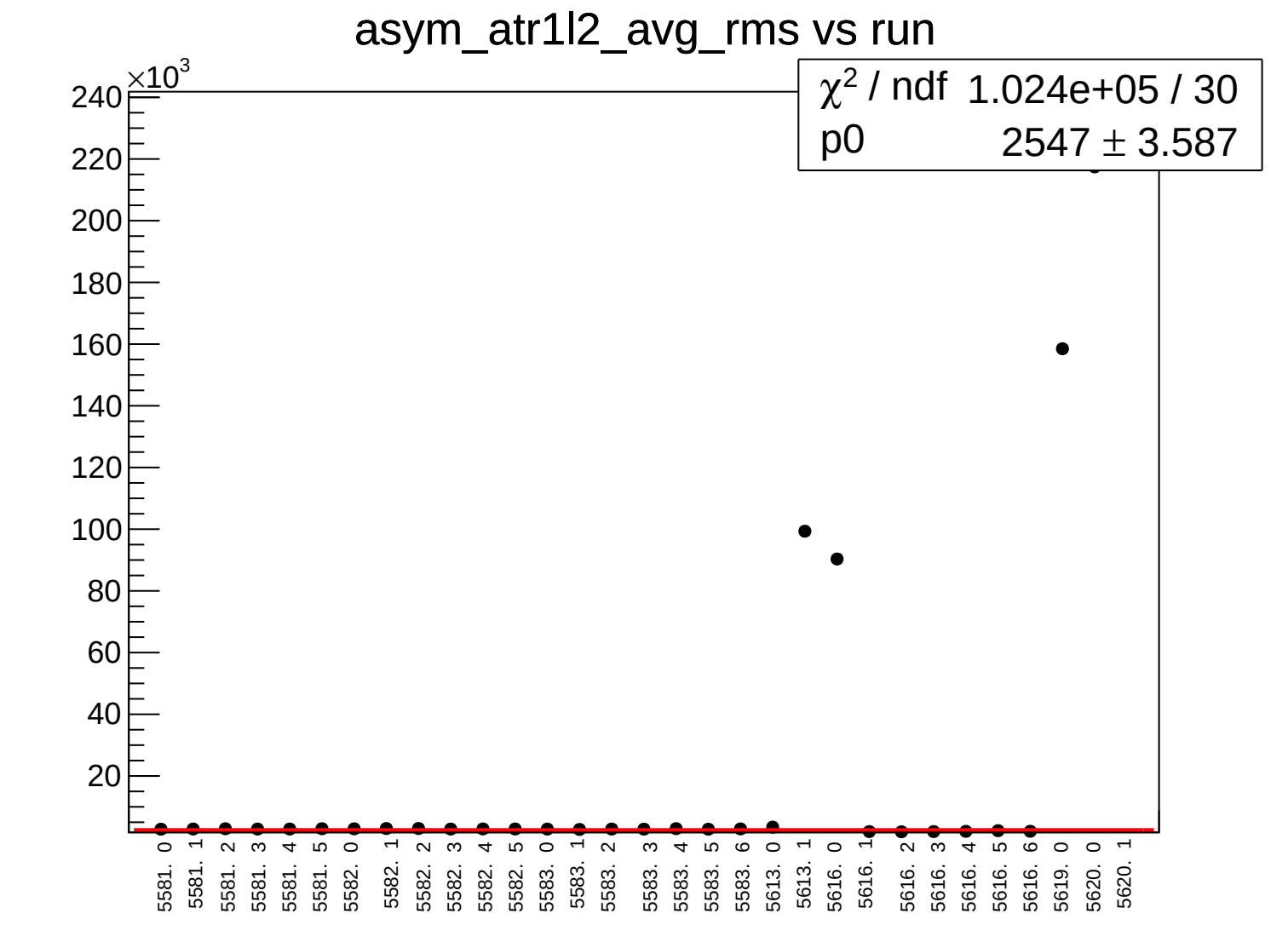

pull1D
Entries 20
Mean −0.009542
Std Dev 0.9716
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

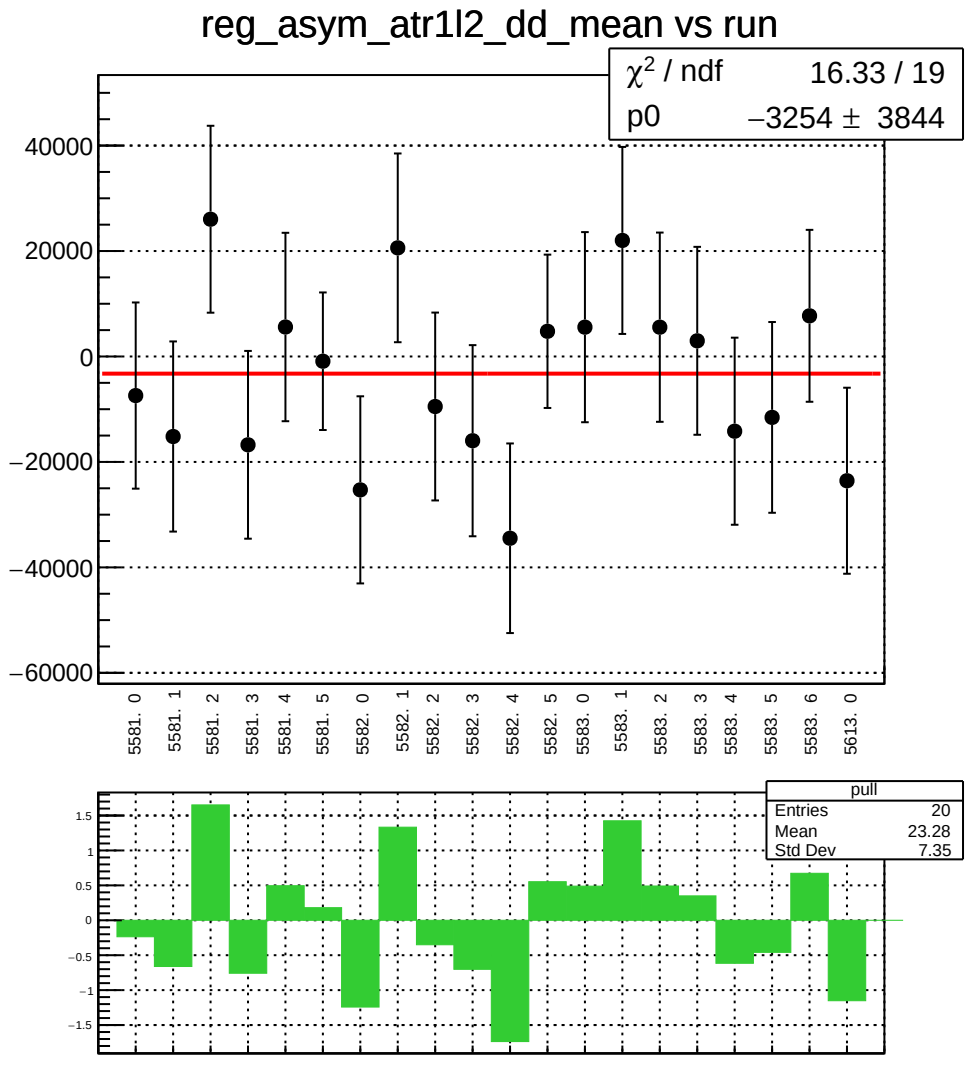

reg_asym_atr1l2_avg_rms vs run
×10^3
χ^2 / ndf 9.314e+04 / 30
p0 1625 ± 2.268
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

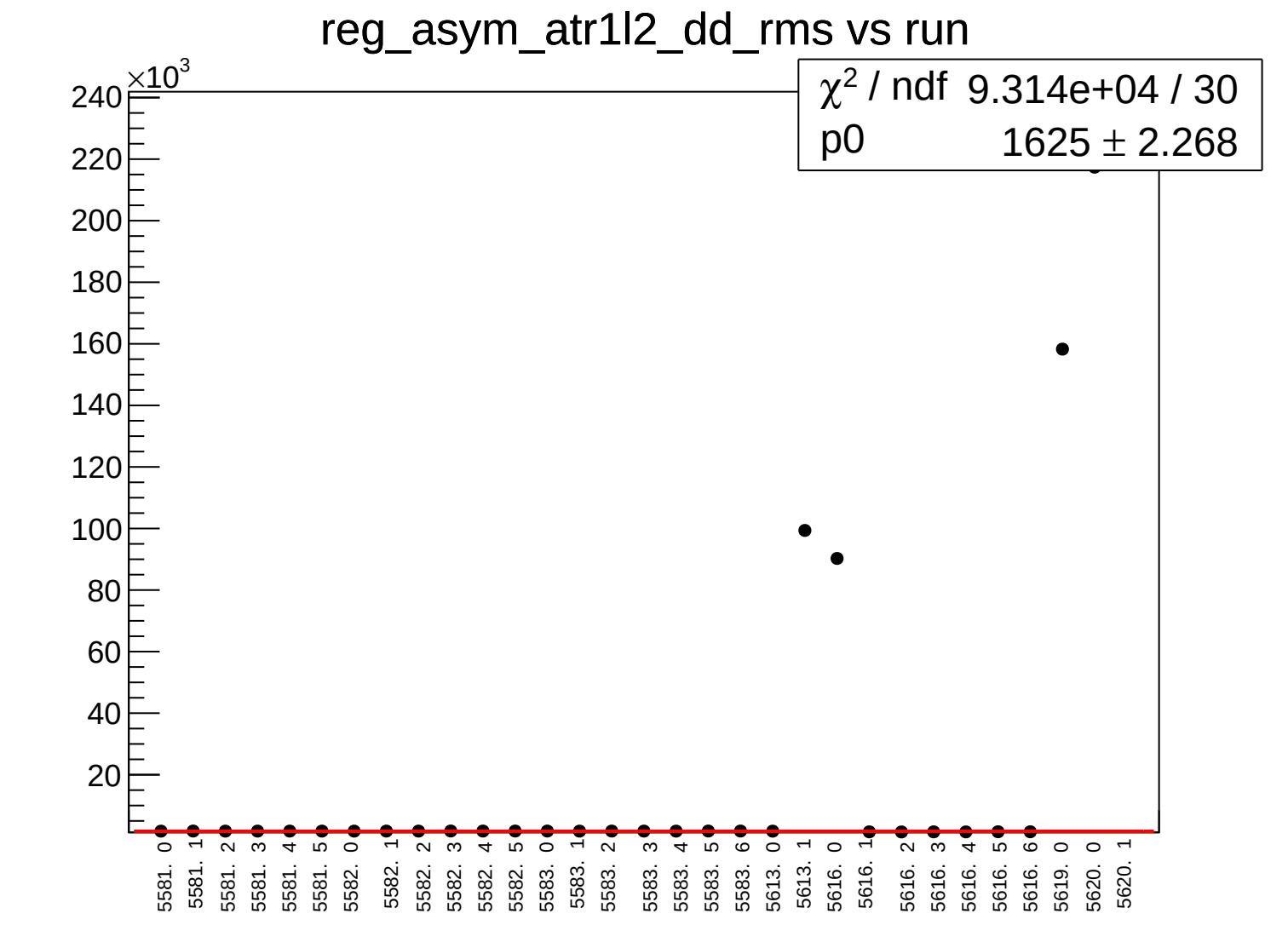

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 25.22 / 30
p0 3672 ± 3732
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.54
Std Dev 16.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.03581
Std Dev 0.9012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

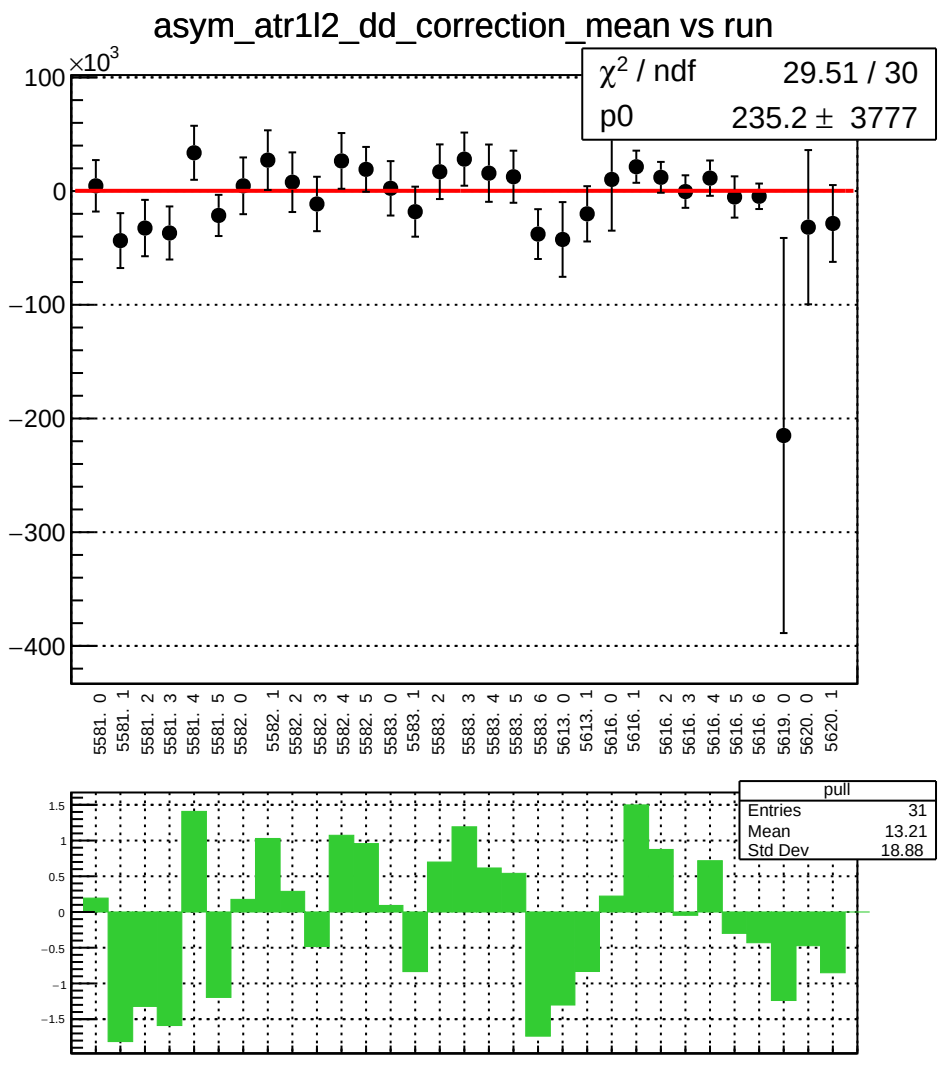

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 4.823e+04 / 30
p0 1972 ± 2.639
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

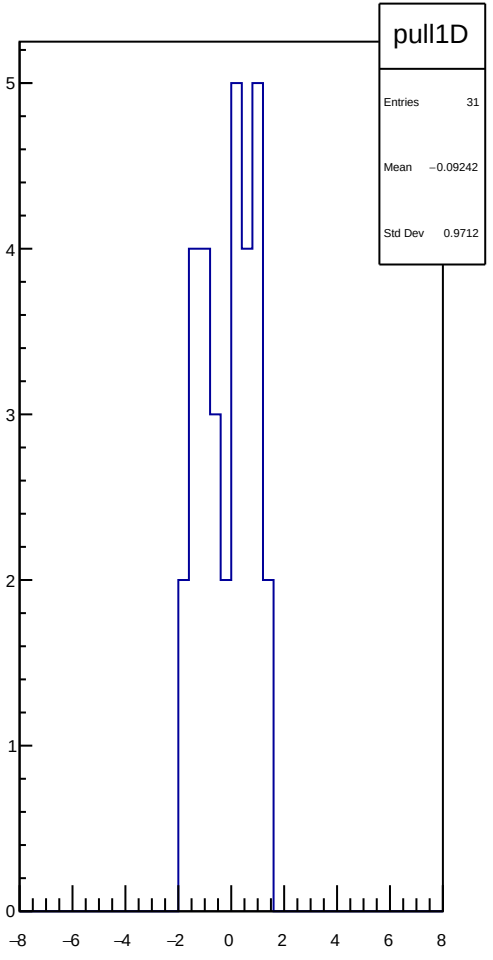

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 14.07 / 19
p0 −3030 ± 6462
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 55.27
Std Dev 33.95
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.007004
Std Dev 0.8388
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

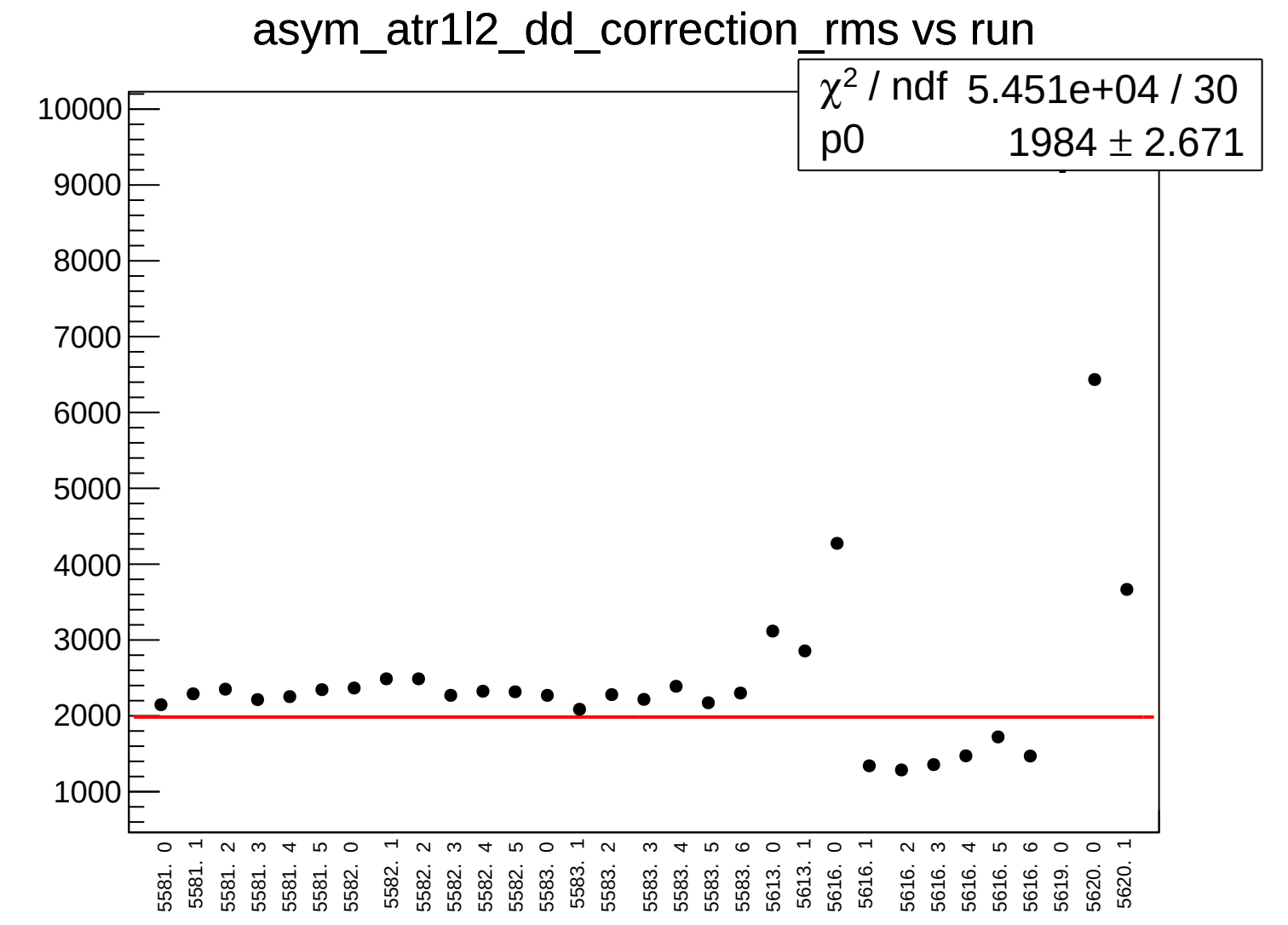

asym_atr1l2_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.024e+05 / 30
p0 2547 ± 3.587
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

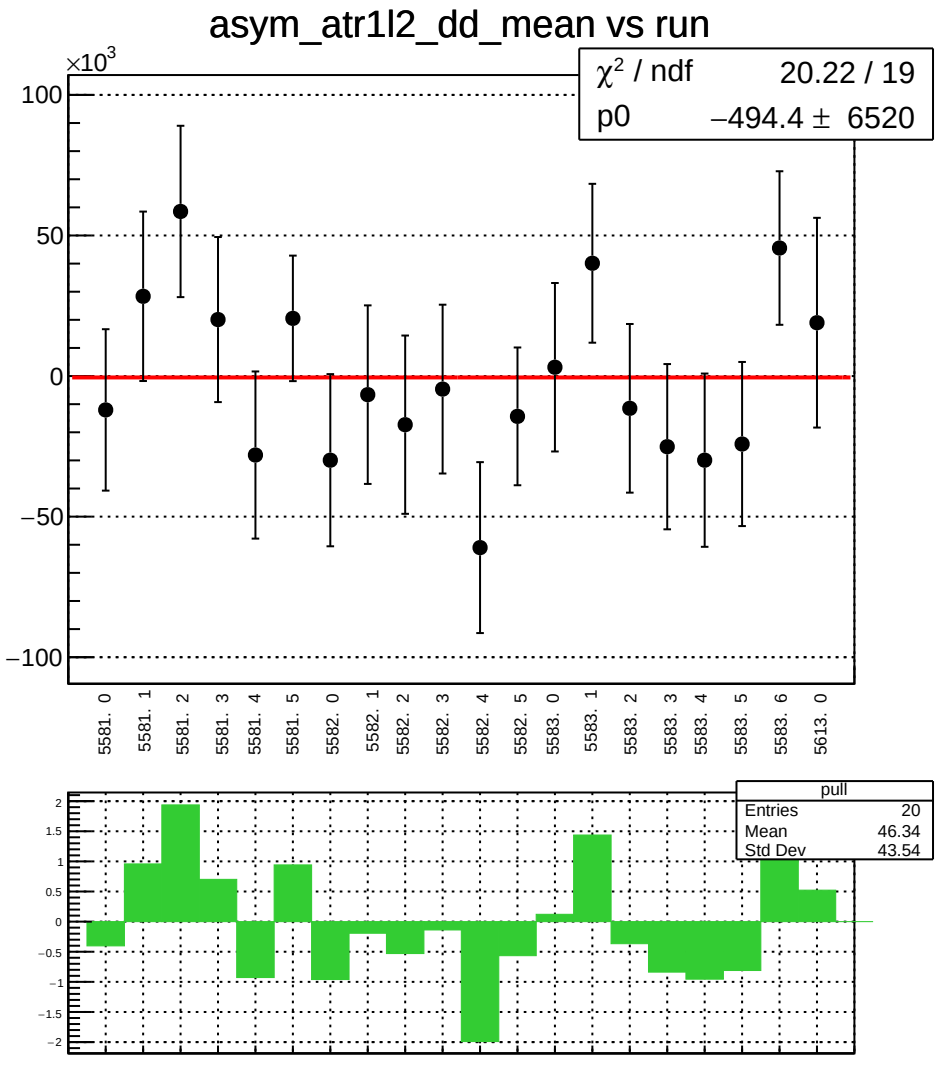

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 16.33 / 19
p0 −3254 ± 3844
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 23.28
Std Dev 7.35
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0136
Std Dev 0.9034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

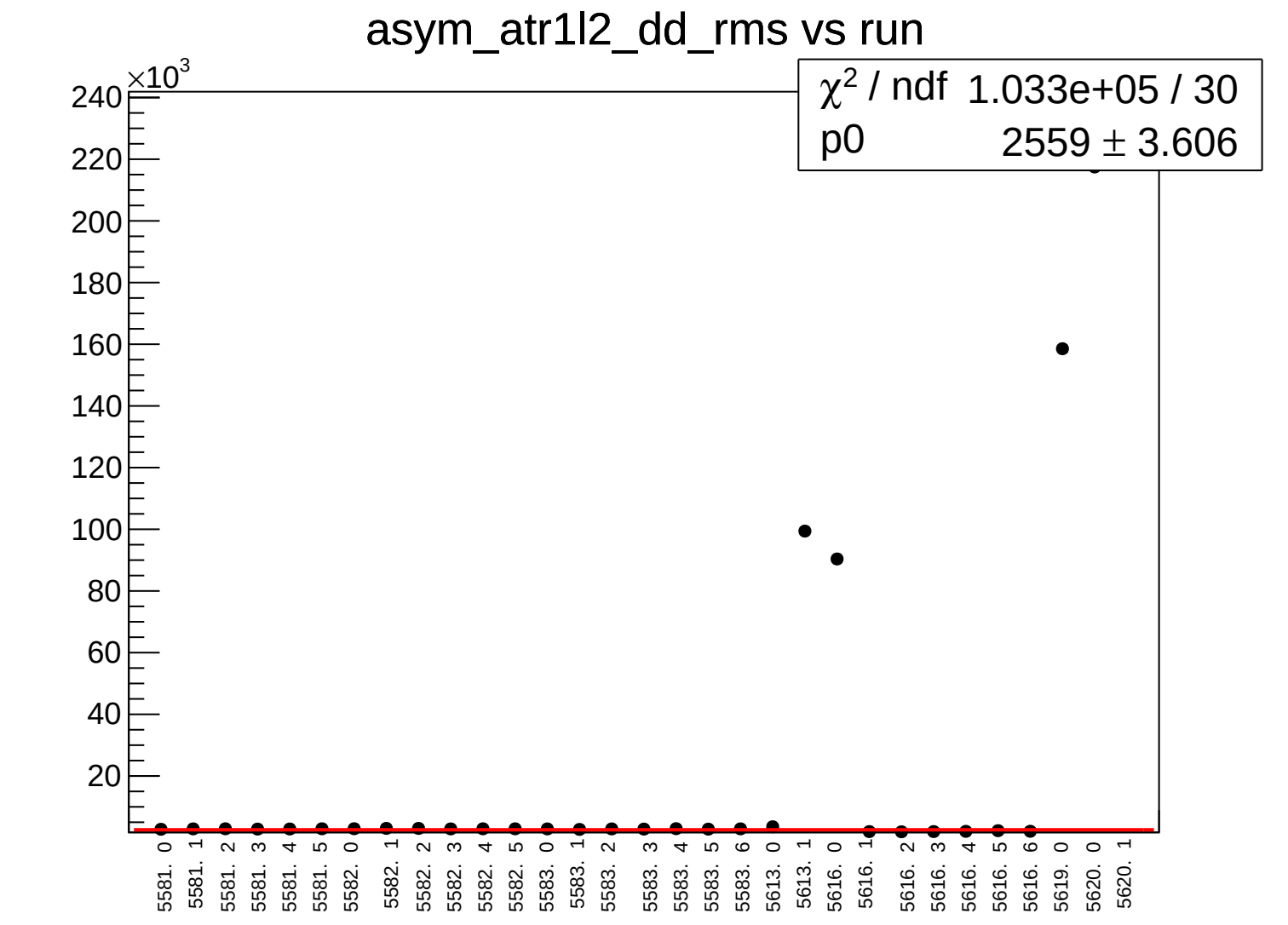

reg_asym_atr1l2_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.314e+04 / 30
p0 1625 ± 2.268
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

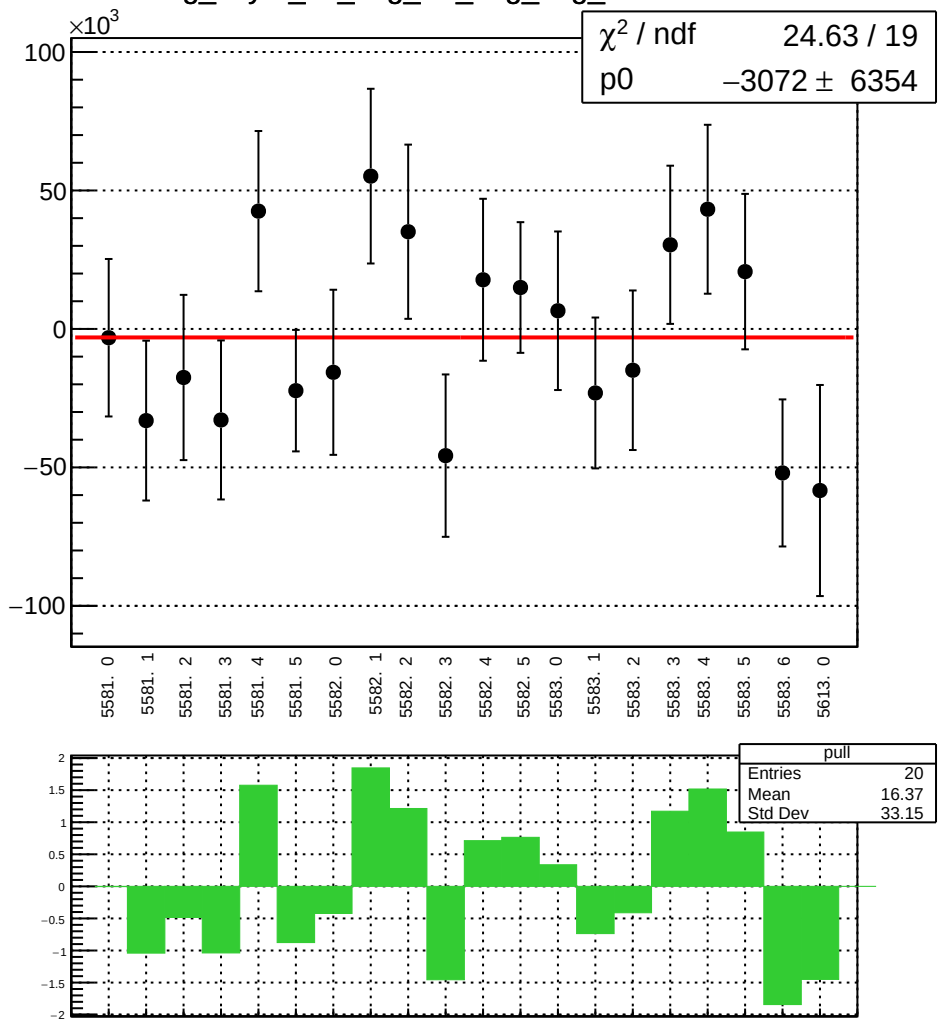

asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 29.51 / 30
p0 235.2 ± 3777
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 13.21
Std Dev 18.88
1.5
1
0.5
0
−0.5
−1
−1.5

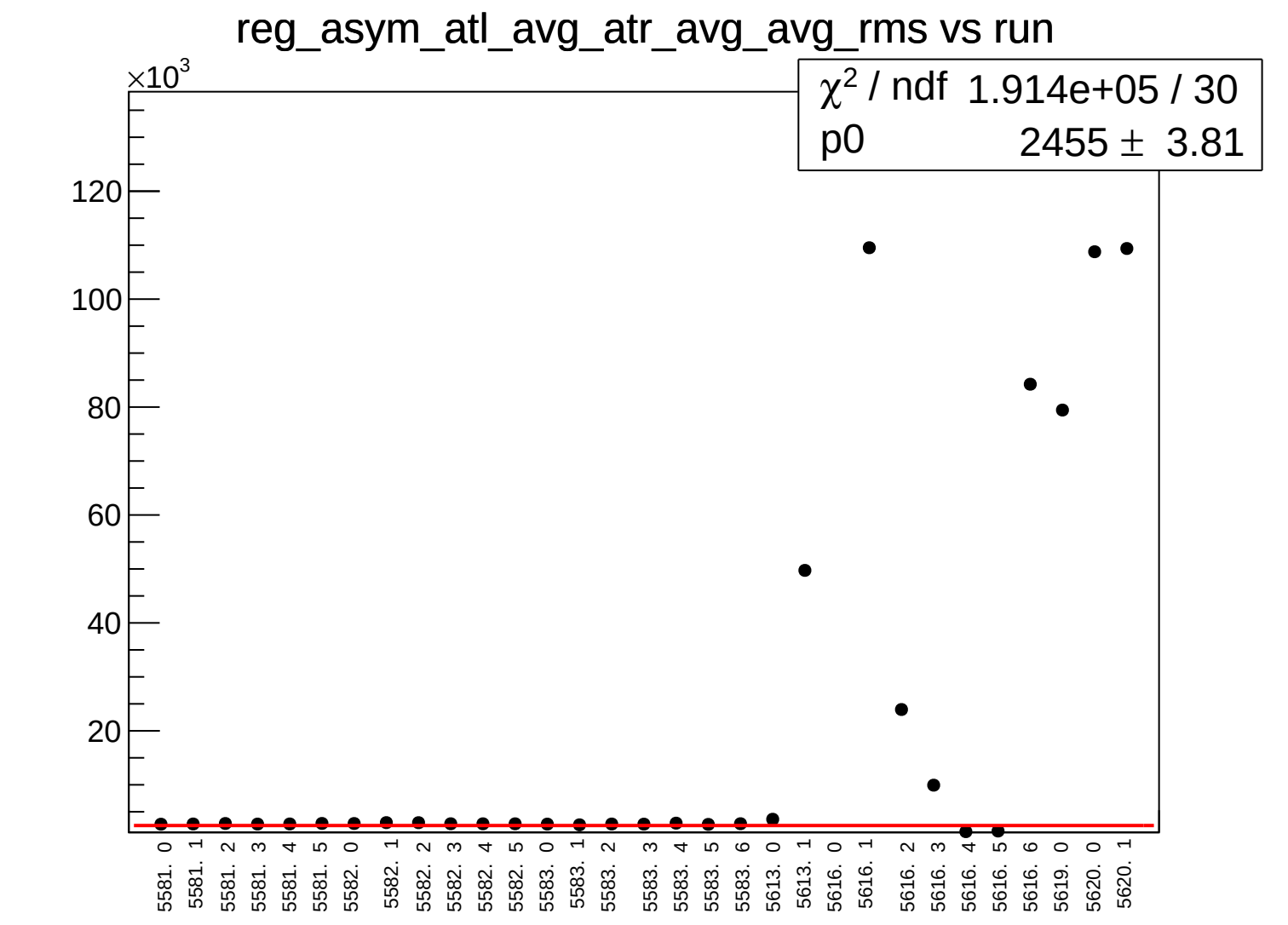

pull1D
Entries 31
Mean −0.09242
Std Dev 0.9712
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

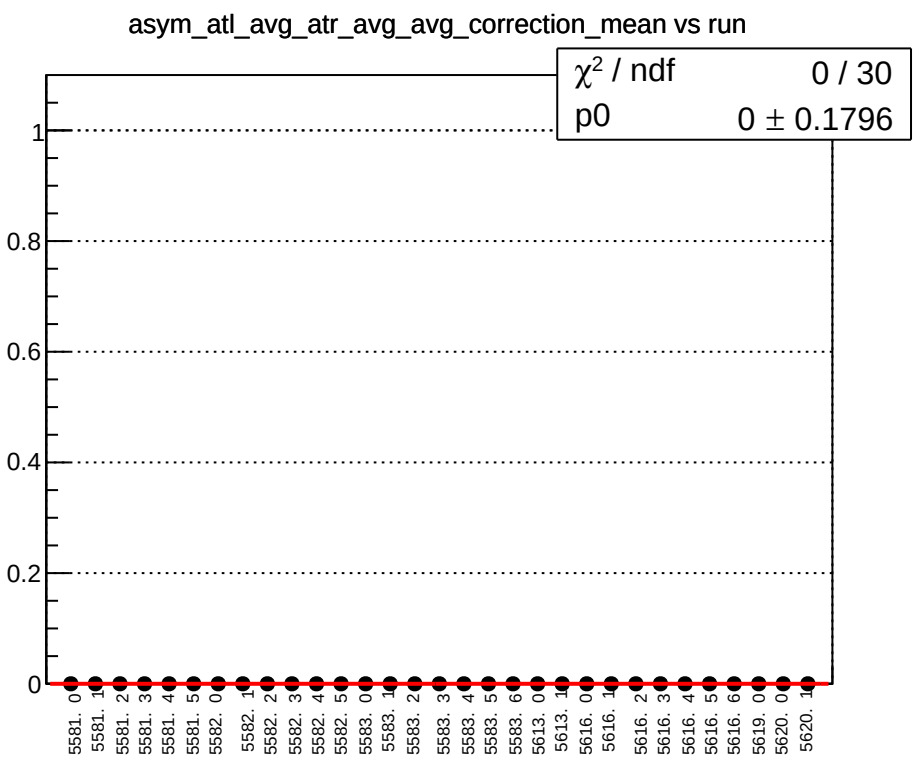

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 5.451e+04 / 30
p0 1984 ± 2.671
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

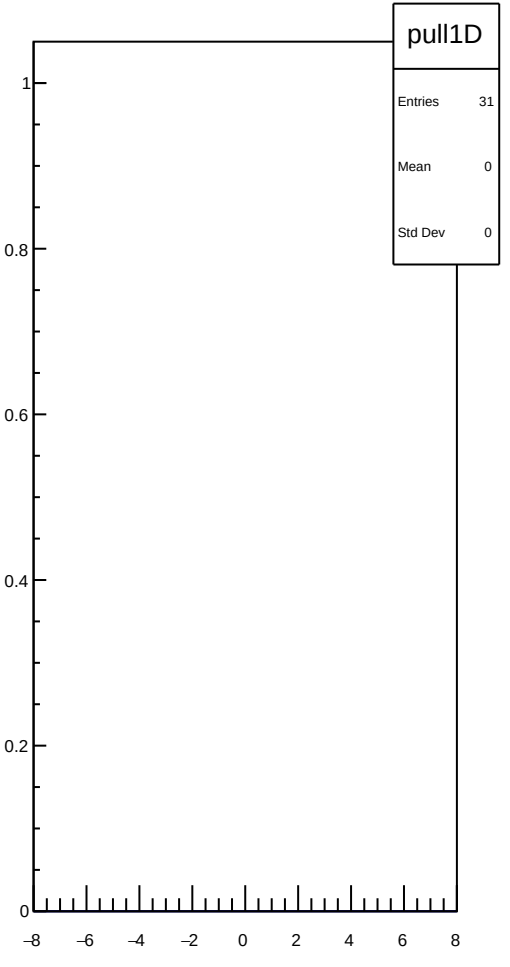

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 20.22 / 19
p0 −494.4 ± 6520
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 46.34
Std Dev 43.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean −0.01871
Std Dev 1.005
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

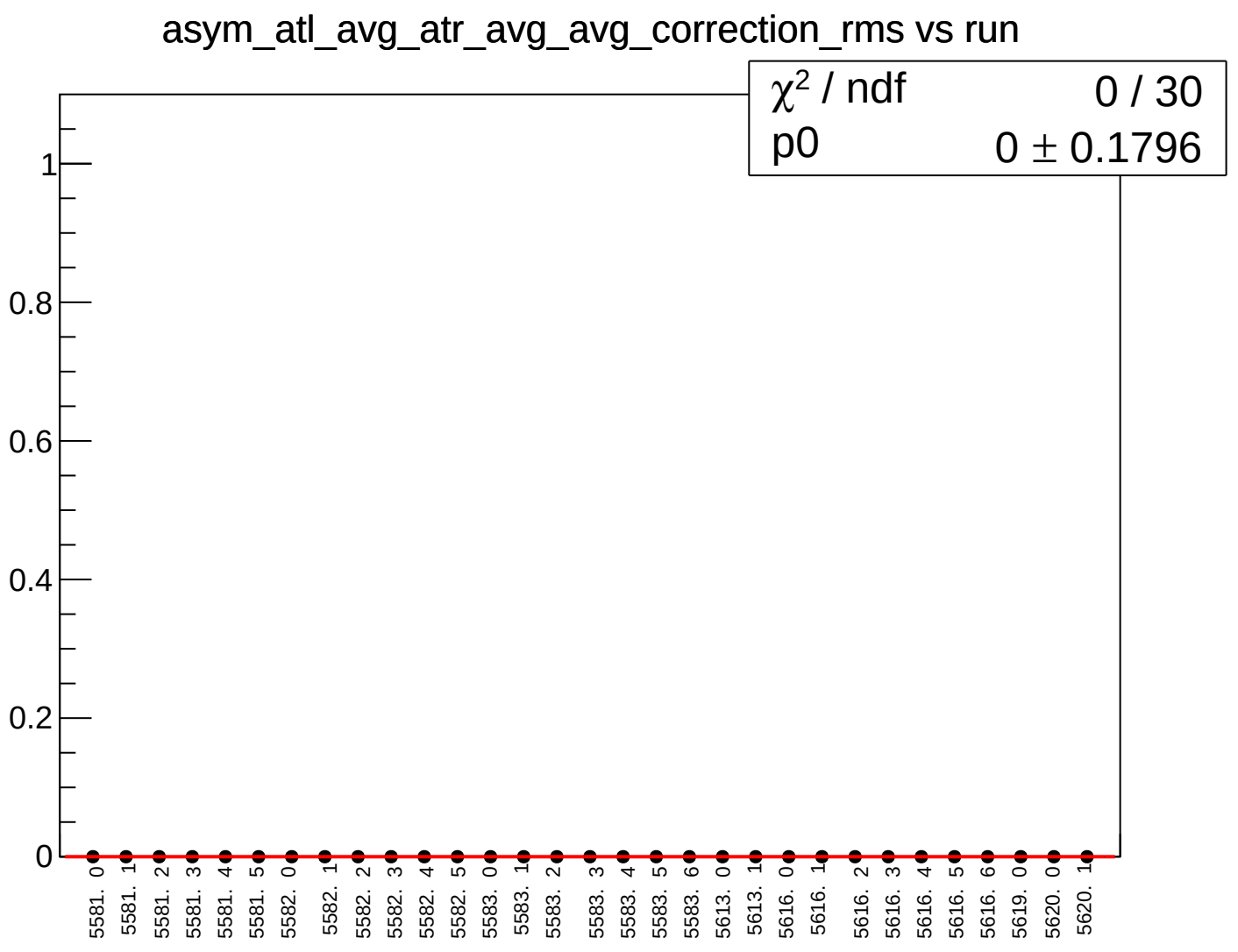

asym_atr1l2_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.033e+05 / 30
p0 2559 ± 3.606
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

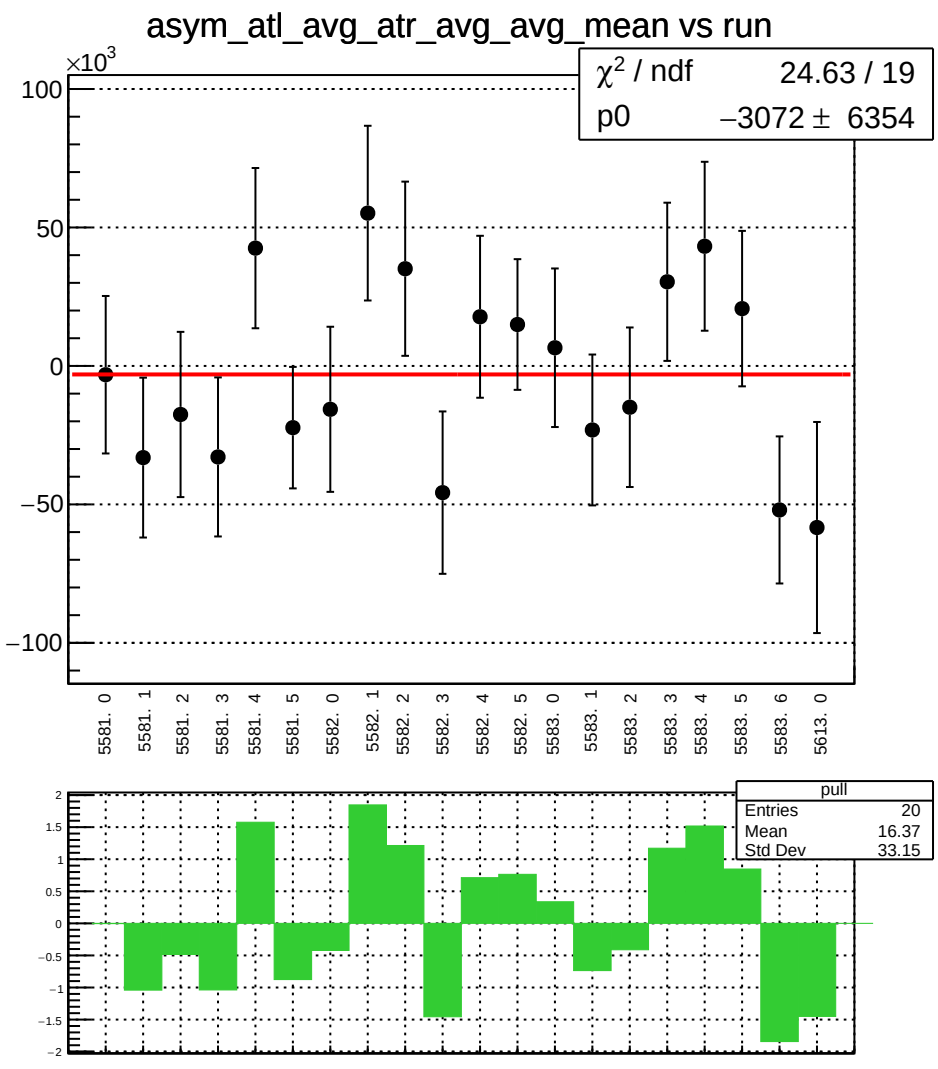

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 24.63 / 19
p0 −3072 ± 6354
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 16.37
Std Dev 33.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 20
Mean 0.01125
Std Dev 1.11
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

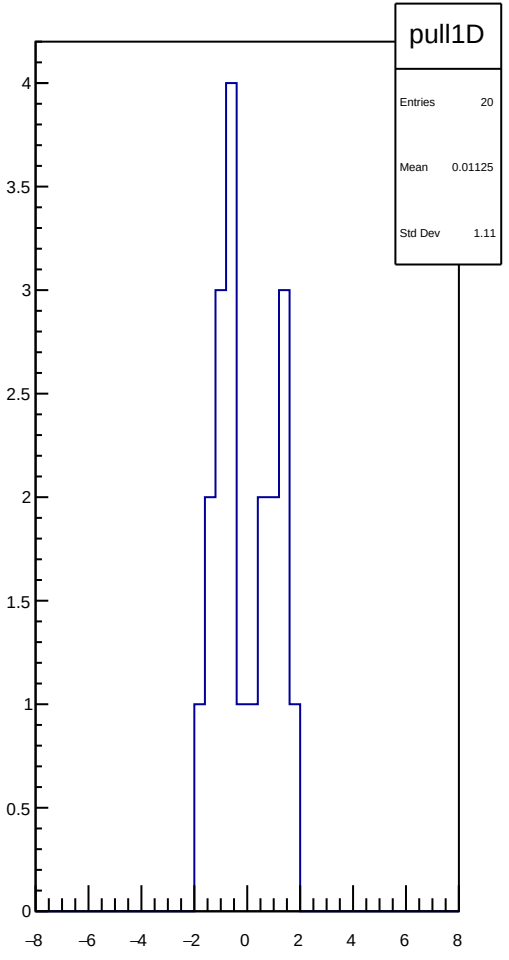

reg_asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.914e+05 / 30
p0 2455 ± 3.81
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

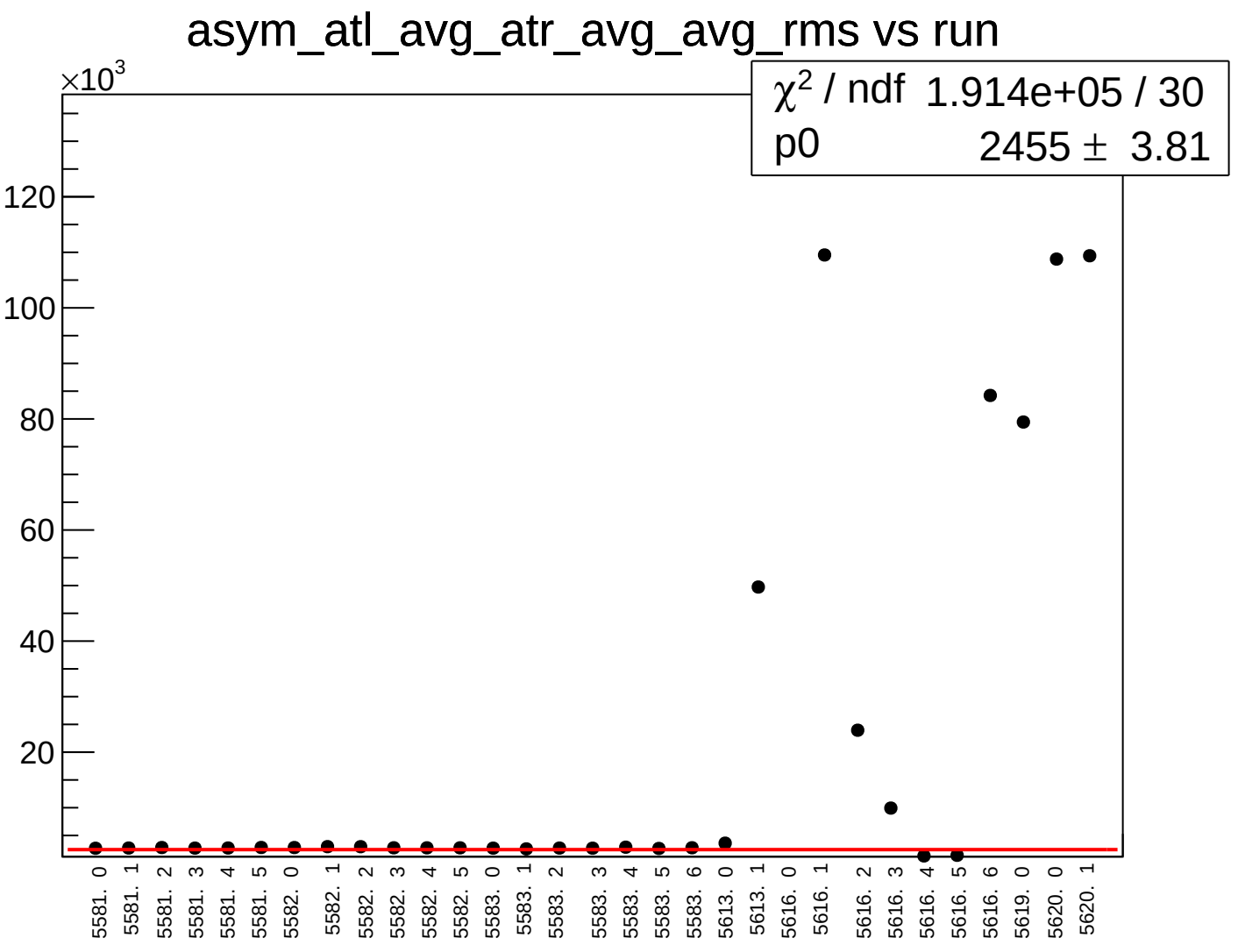

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 30
p0 0 ± 0.1796
1
0.8
0.6
0.4
0.2
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

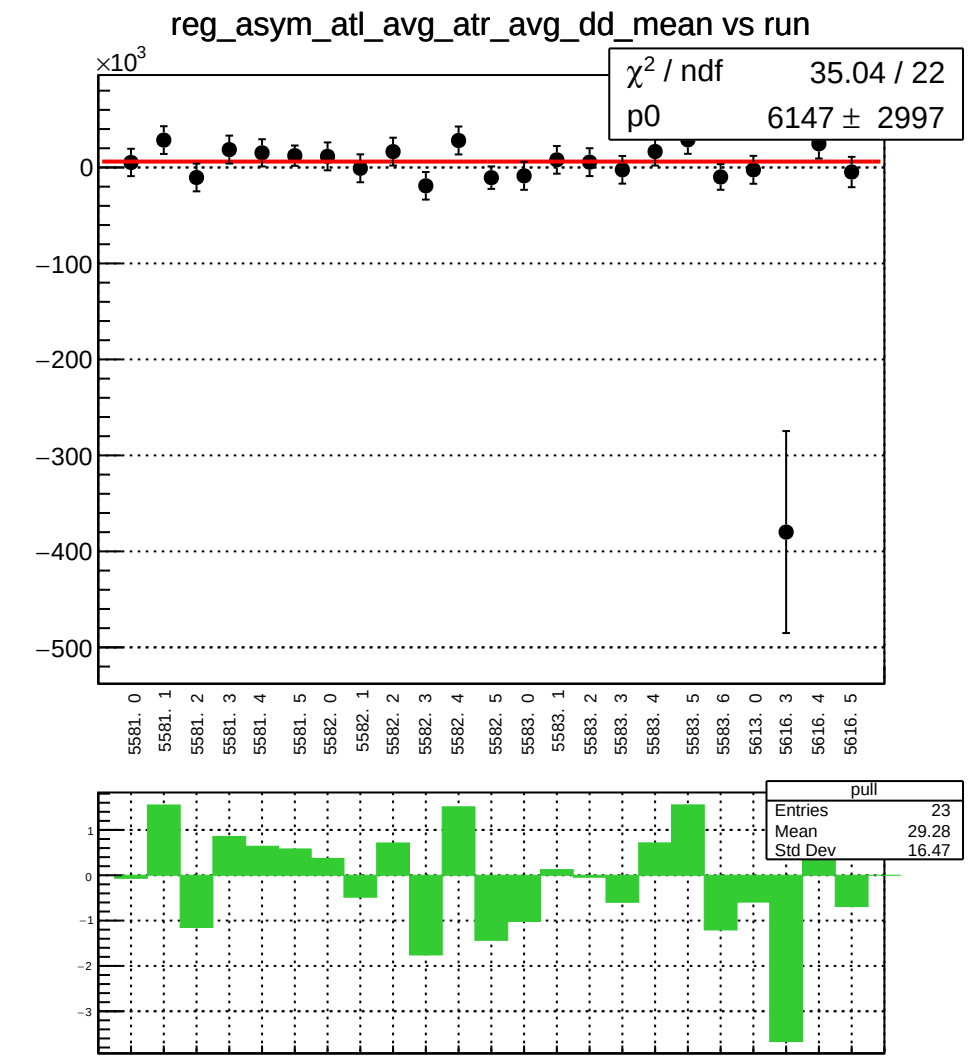

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

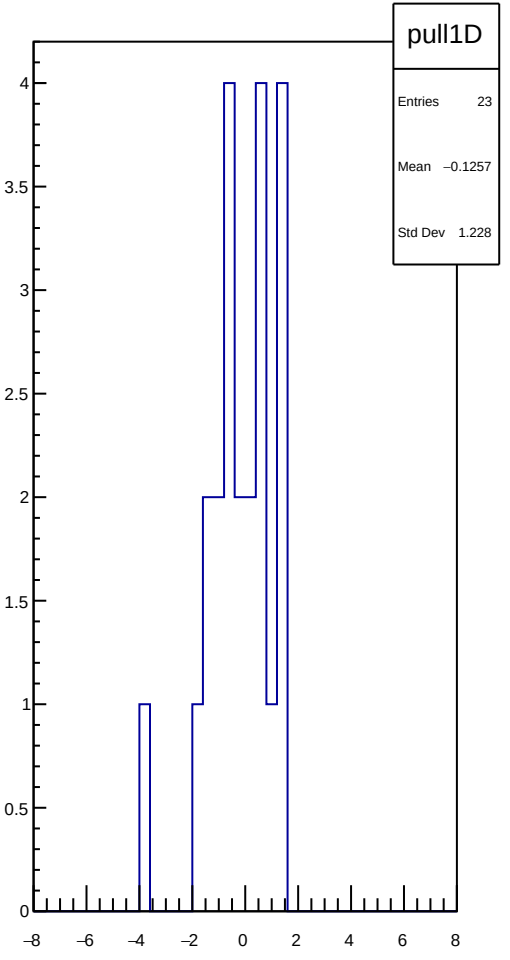

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 30
p0 0 ± 0.1796
1
0.8
0.6
0.4
0.2
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

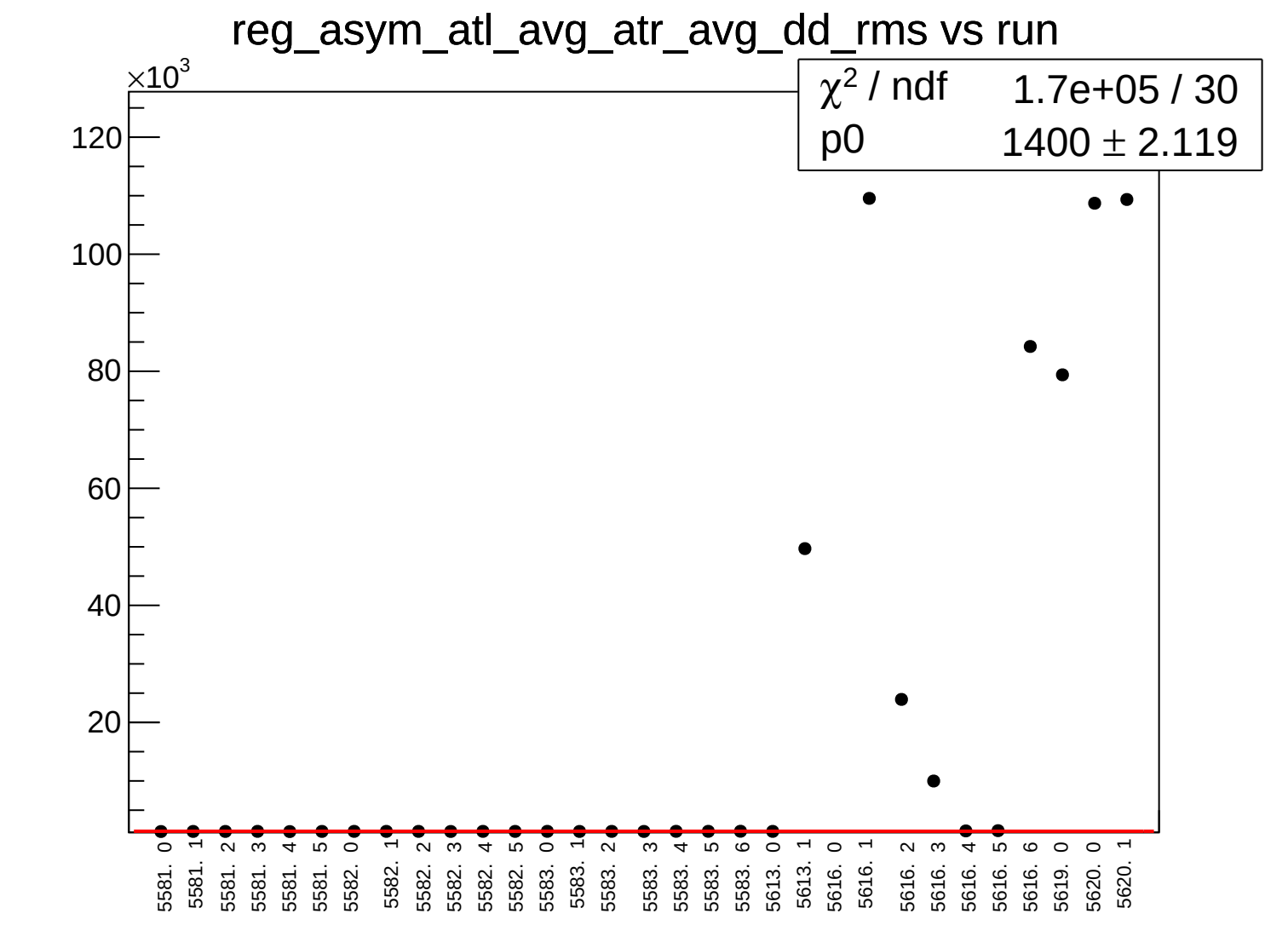

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 24.63 / 19
p0 −3072 ± 6354
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 16.37
Std Dev 33.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

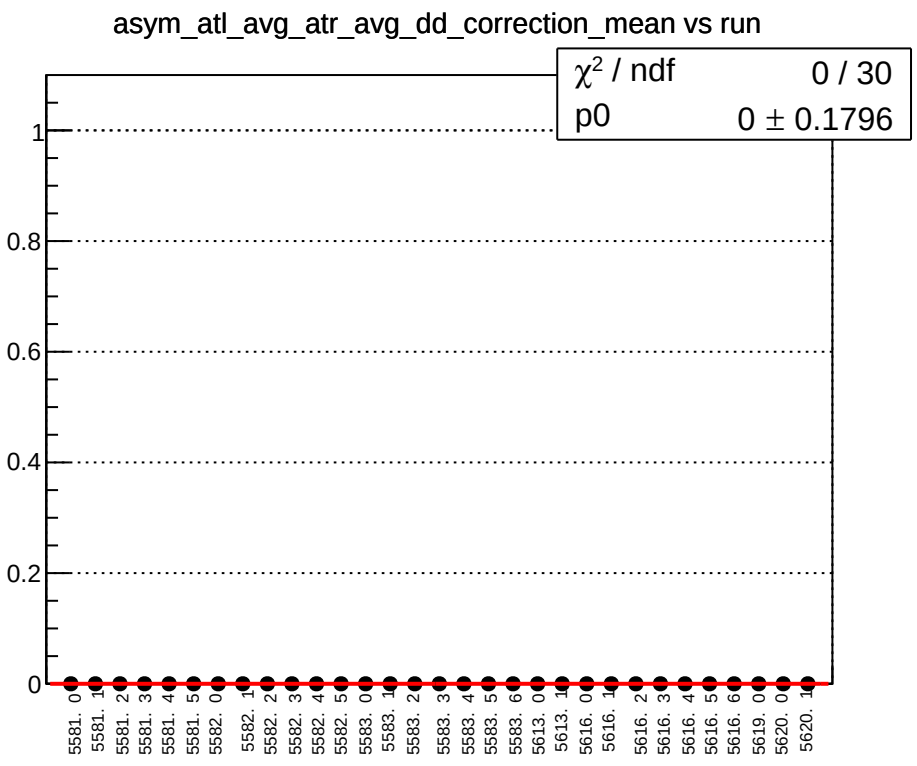

pull1D
Entries 20
Mean 0.01125
Std Dev 1.11
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

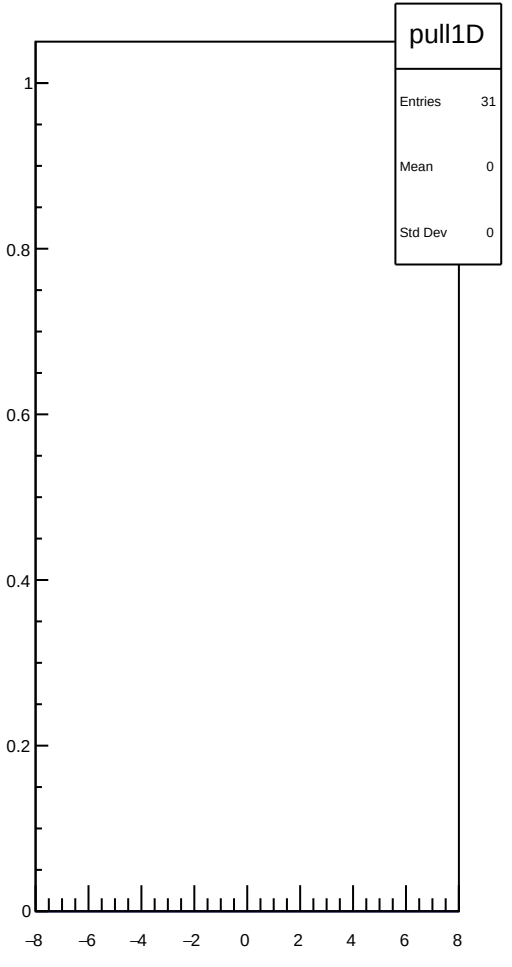

asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.914e+05 / 30
p0 2455 ± 3.81
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

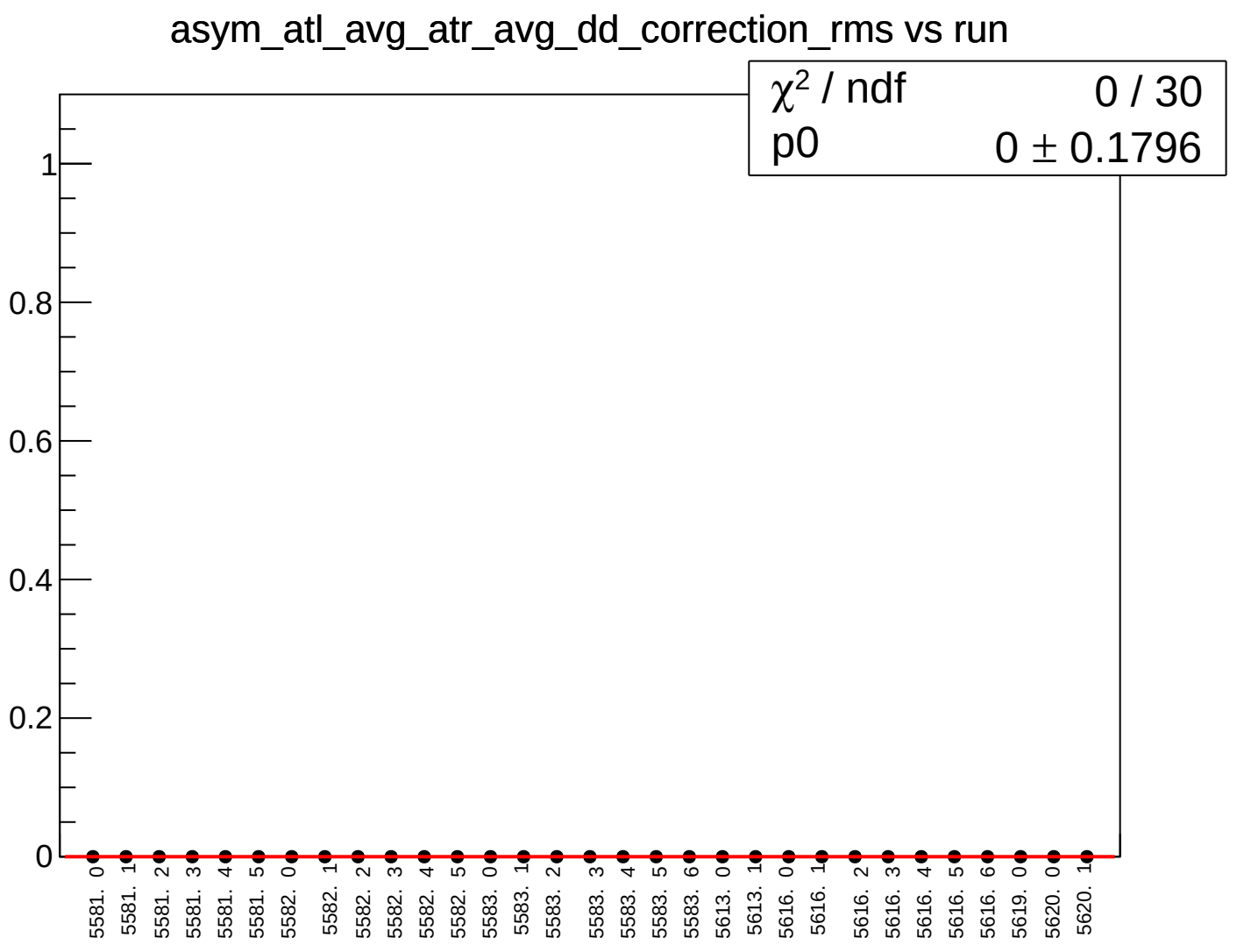

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 35.04 / 22
p0 6147 ± 2997
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
pull
Entries 23
Mean 29.28
Std Dev 16.47
1
0
−1
−2
−3


pull1D
Entries 23
Mean −0.1257
Std Dev 1.228
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.7e+05 / 30
p0 1400 ± 2.119
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1


asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 30
p0 0 ± 0.1796
1
0.8
0.6
0.4
0.2
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1


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


asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 30
p0 0 ± 0.1796
1
0.8
0.6
0.4
0.2
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
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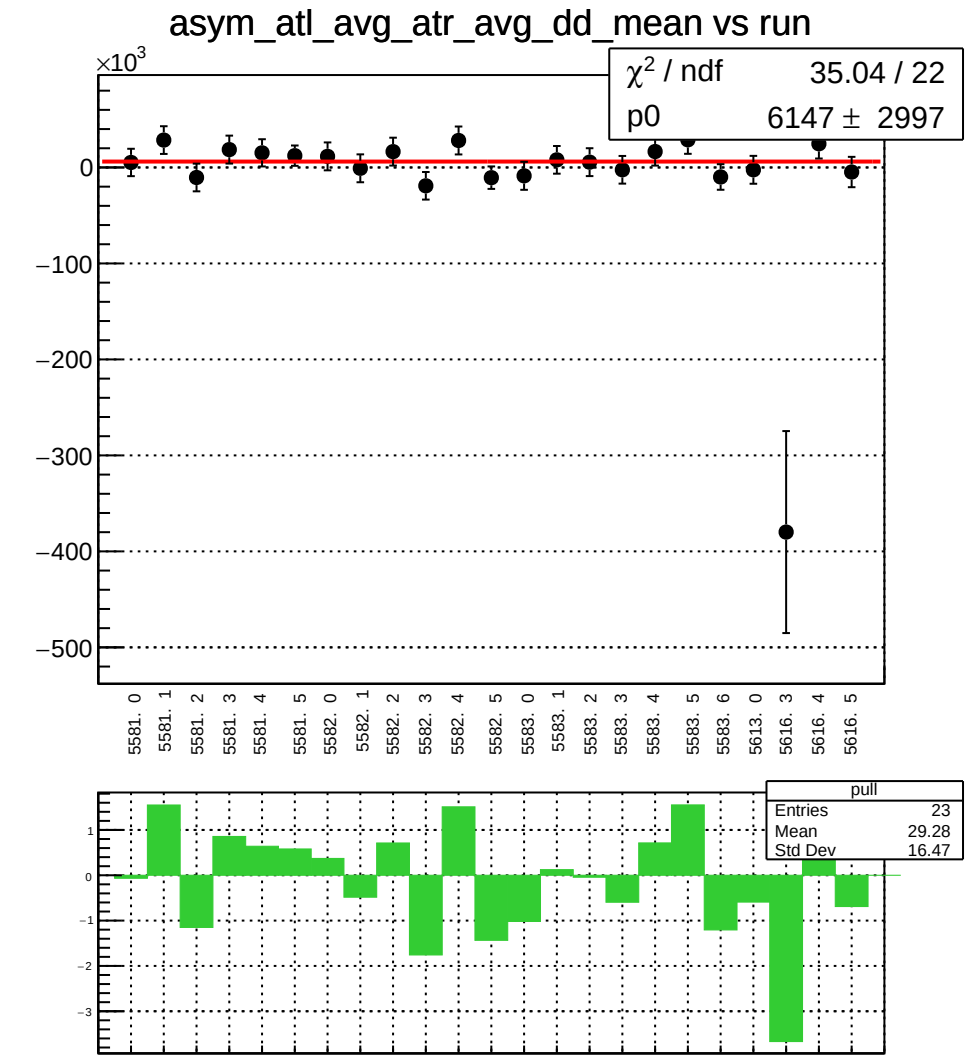
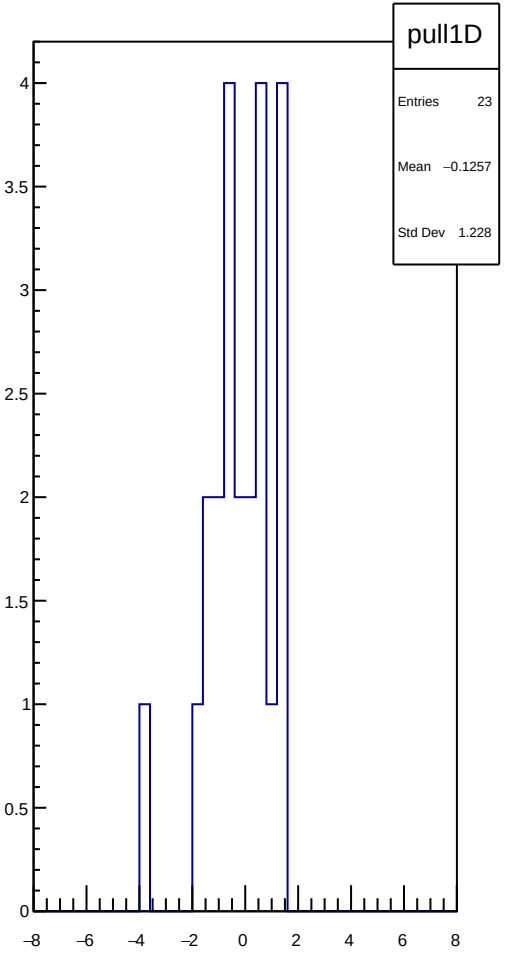
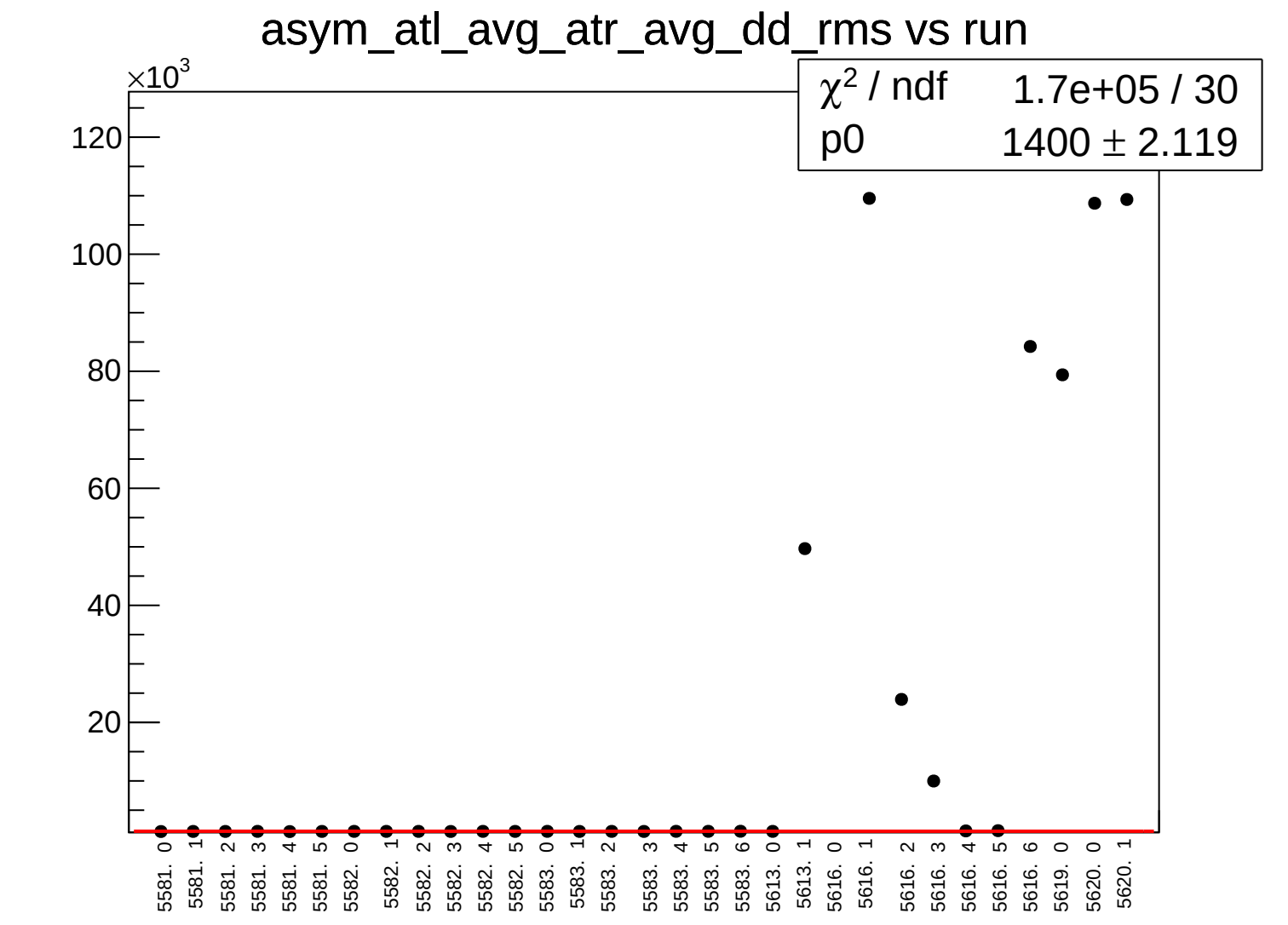
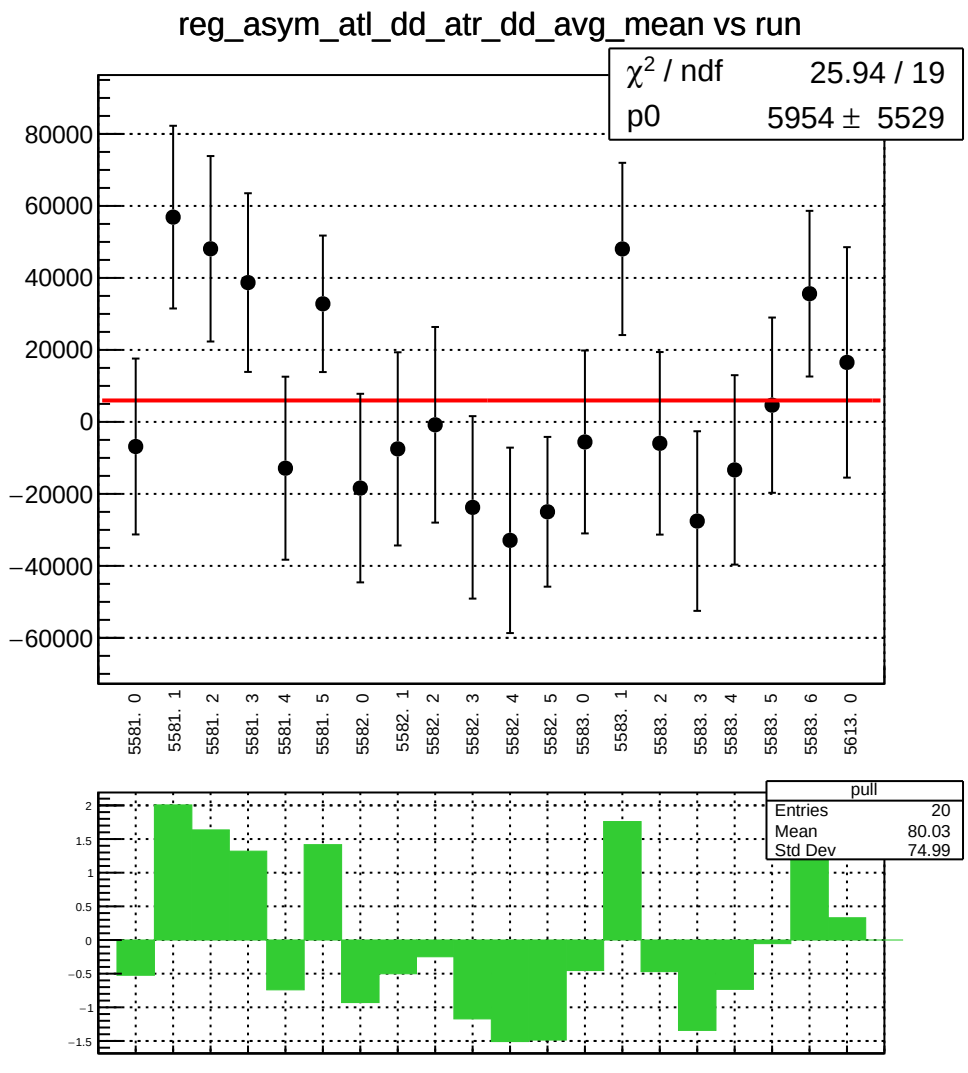
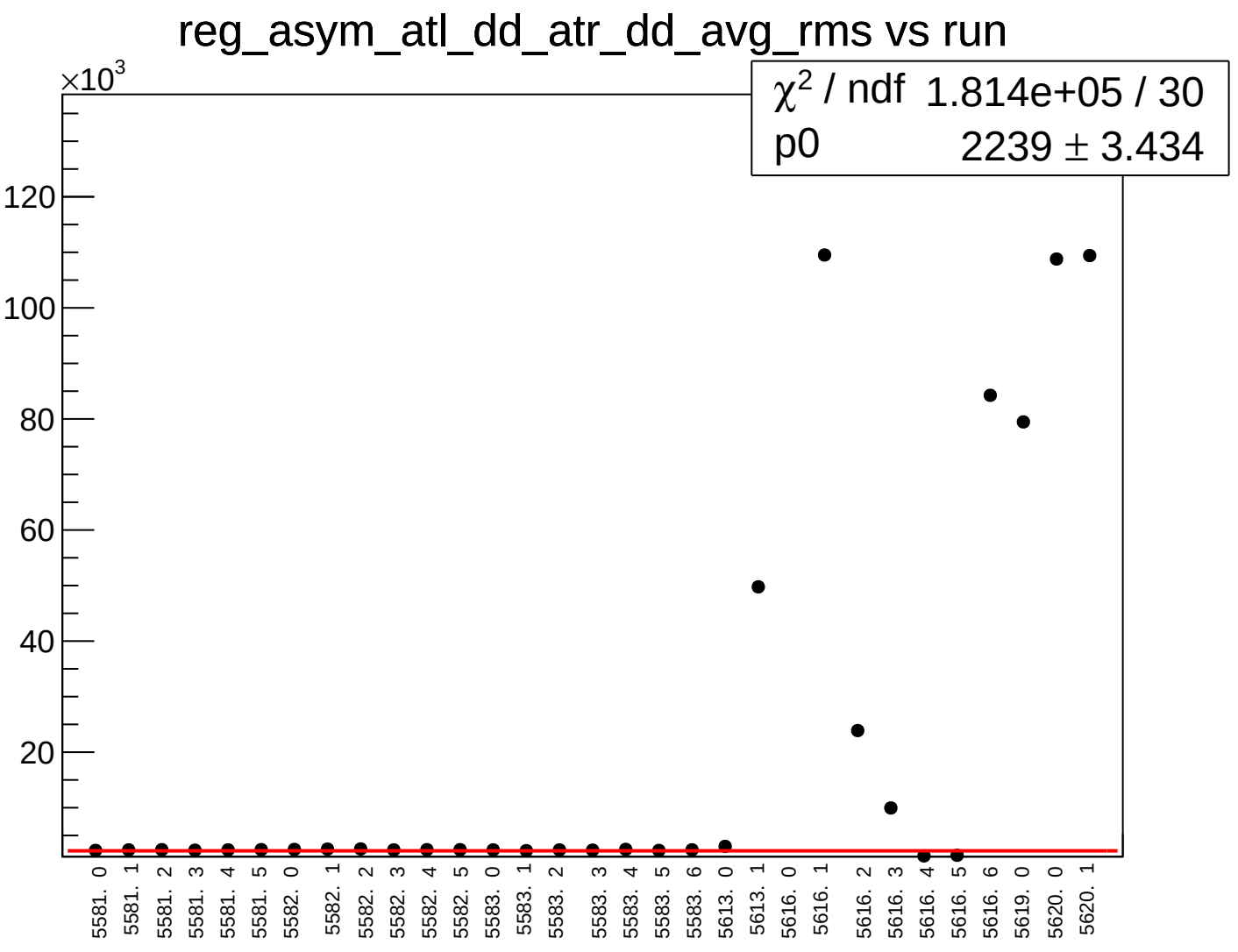
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1


asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 35.04 / 22
p0 6147 ± 2997
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
pull
Entries 23
Mean 29.28
Std Dev 16.47
1
0
−1
−2
−3


pull1D
Entries 23
Mean −0.1257
Std Dev 1.228
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.7e+05 / 30
p0 1400 ± 2.119
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1


reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 25.94 / 19
p0 5954 ± 5529
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 80.03
Std Dev 74.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0202
Std Dev 1.139
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
×10^3
χ^2 / ndf 1.814e+05 / 30
p0 2239 ± 3.434
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
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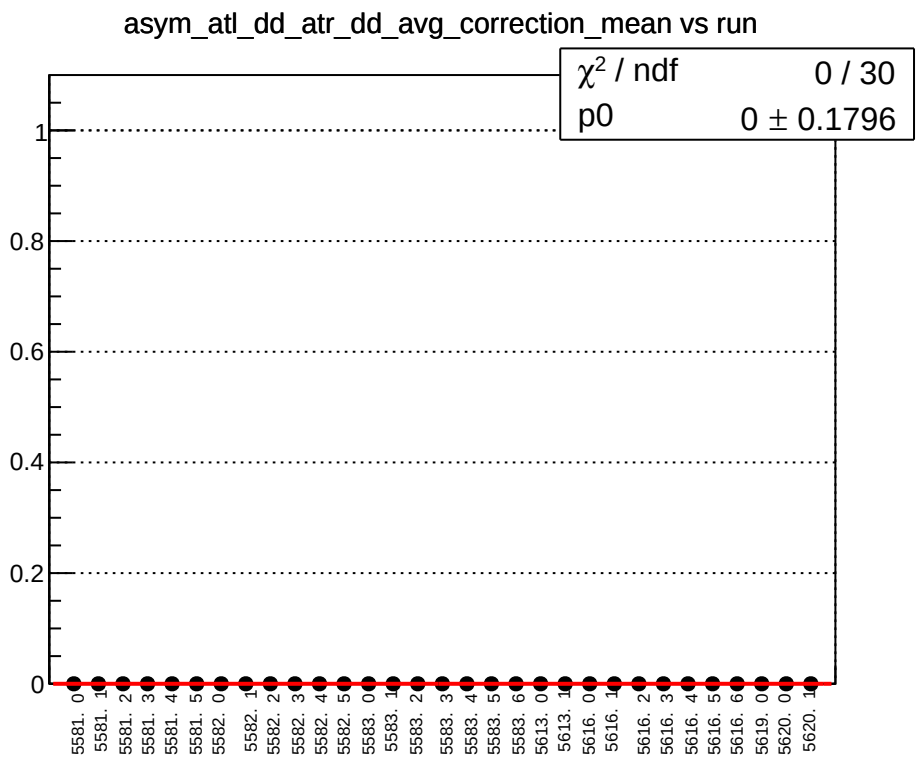
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1


asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 30
p0 0 ± 0.1796
1
0.8
0.6
0.4
0.2
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
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5583. 6
5613. 0
5613. 1
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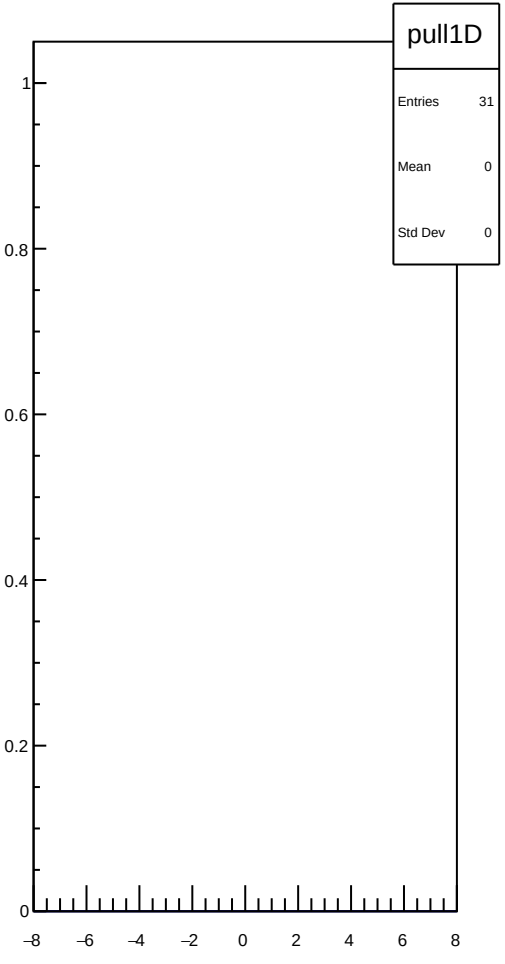
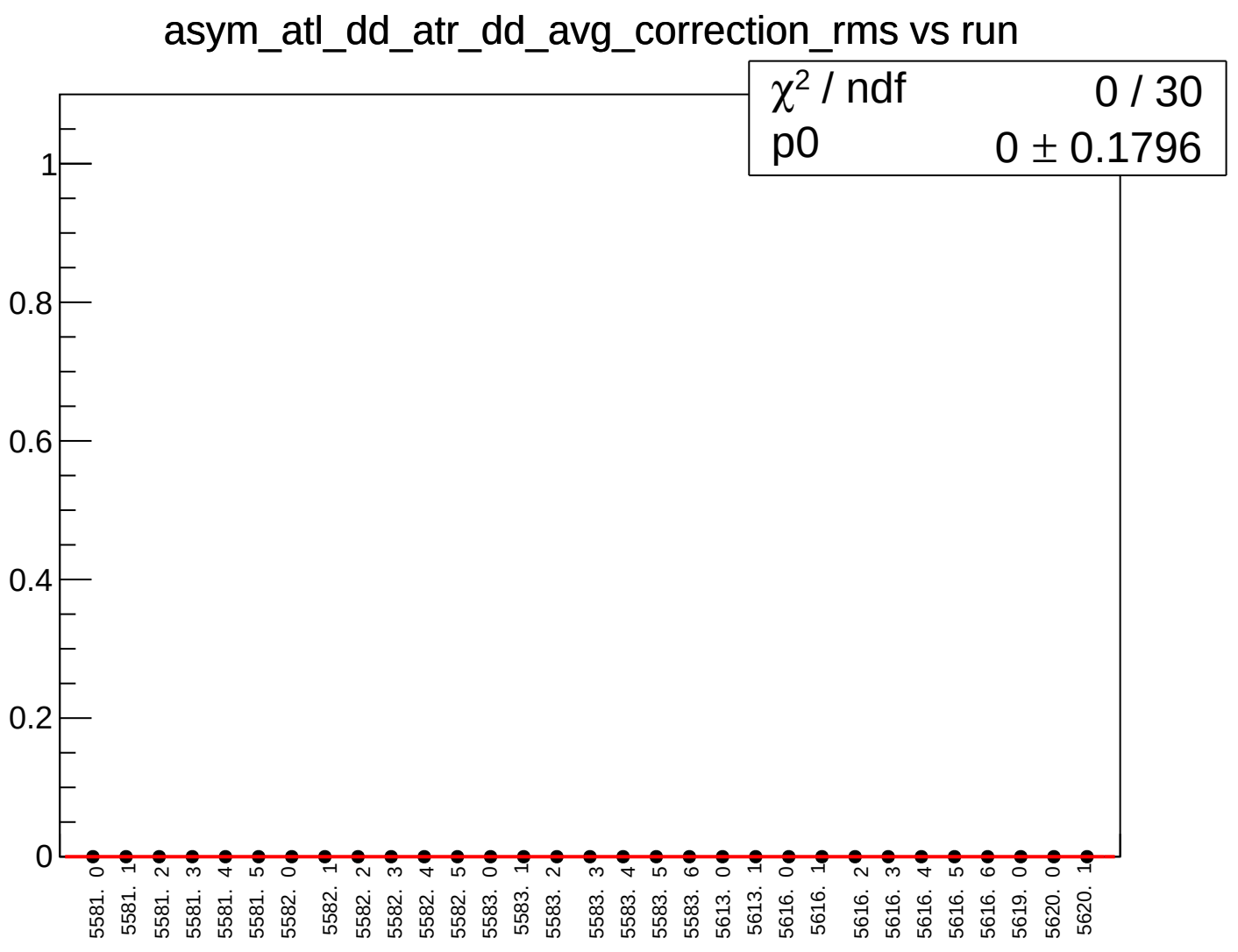
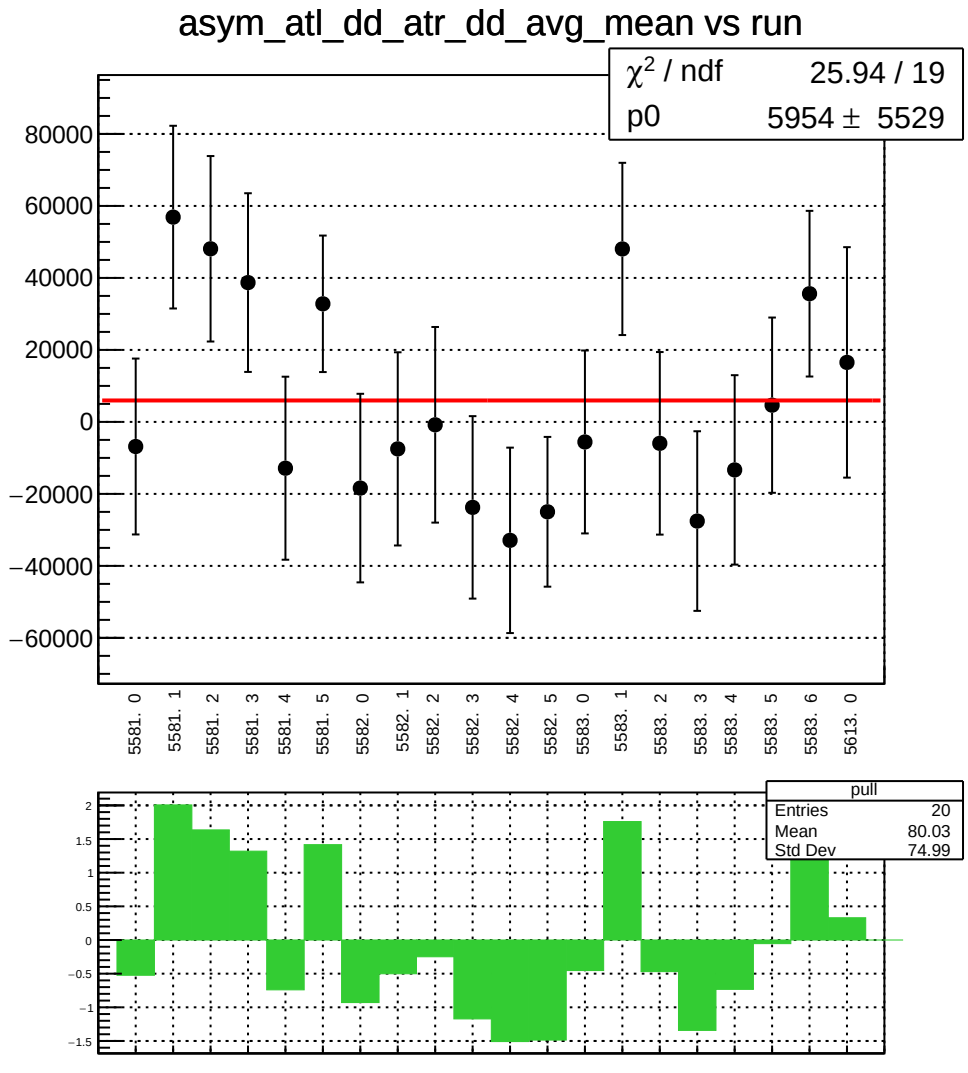
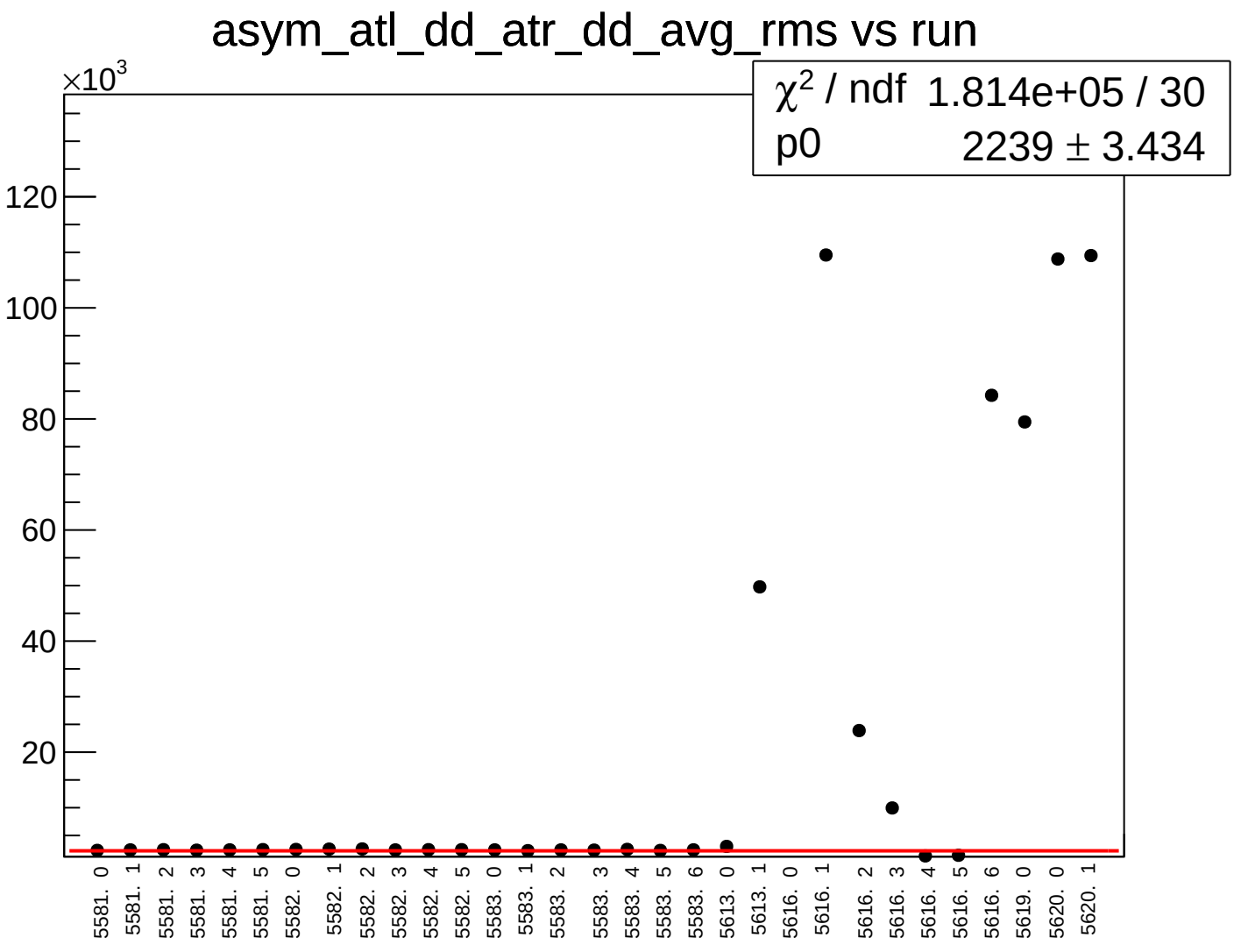
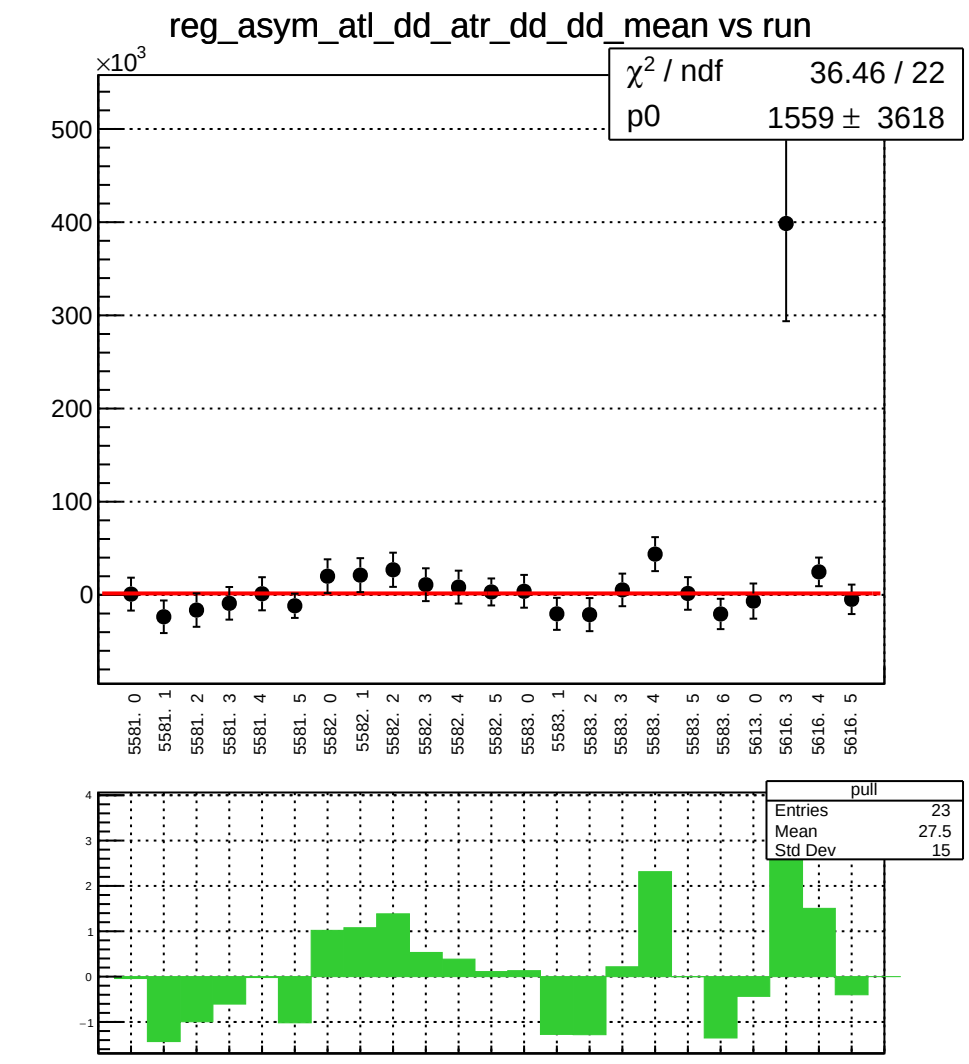
5619. 0
5620. 0
5620. 1

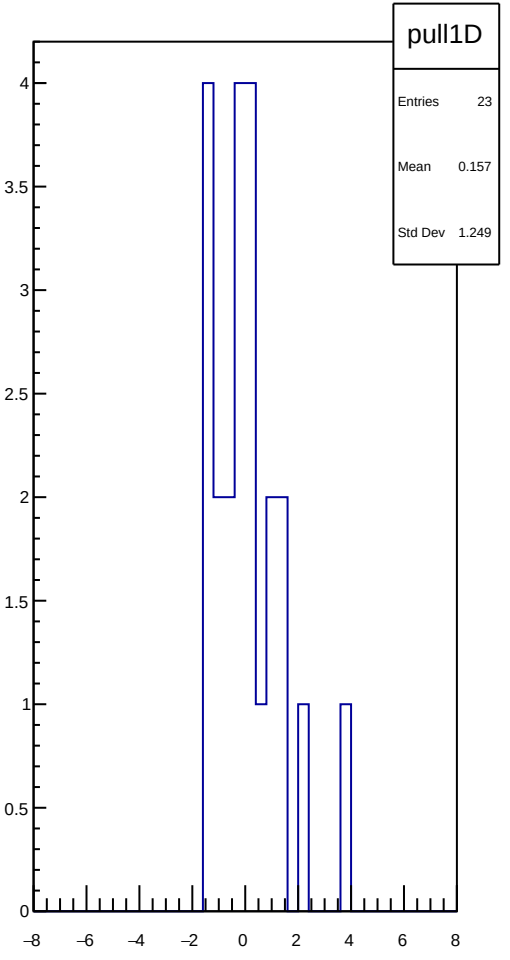

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

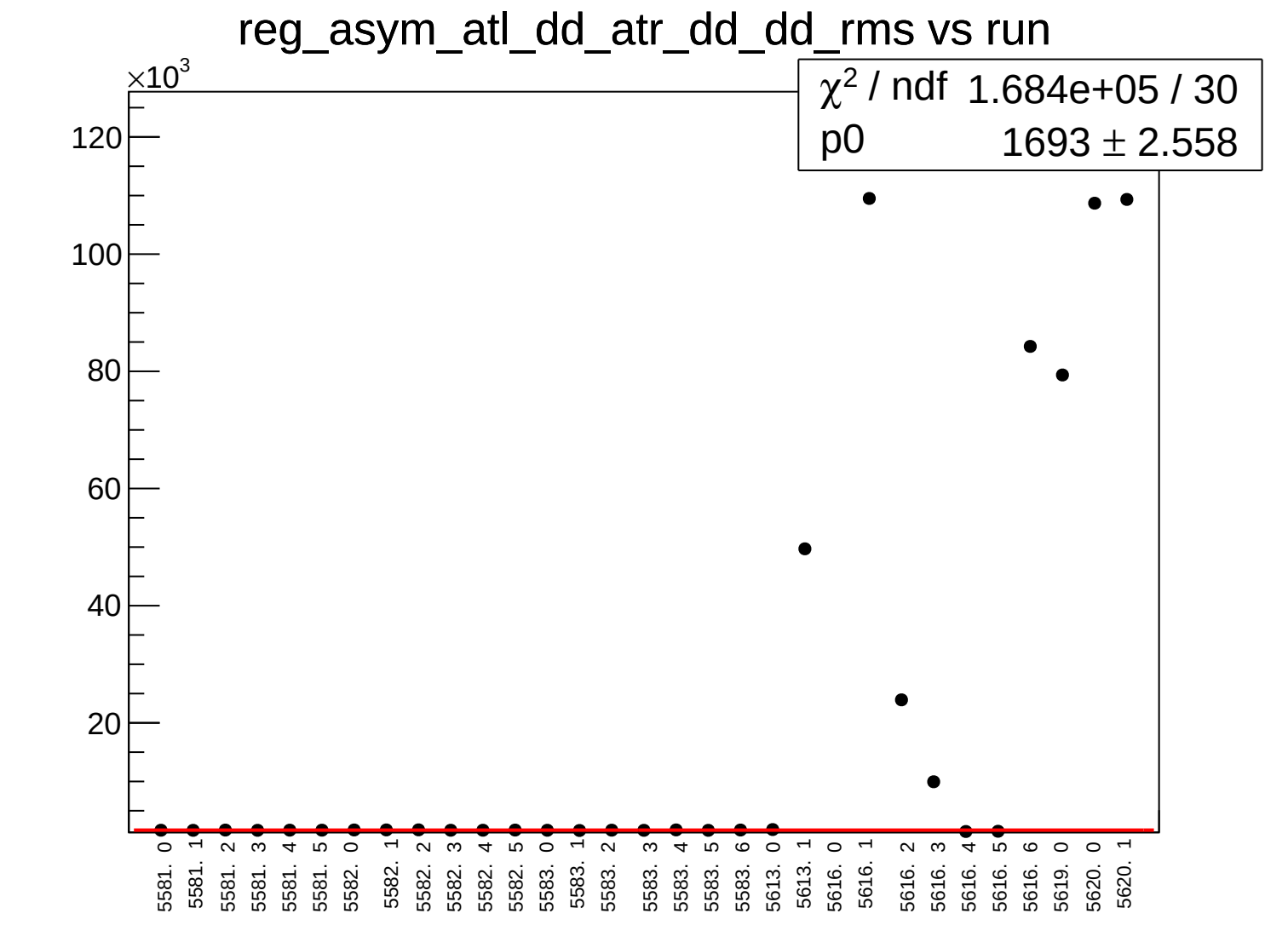

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 30
p0 0 ± 0.1796
1
0.8
0.6
0.4
0.2
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

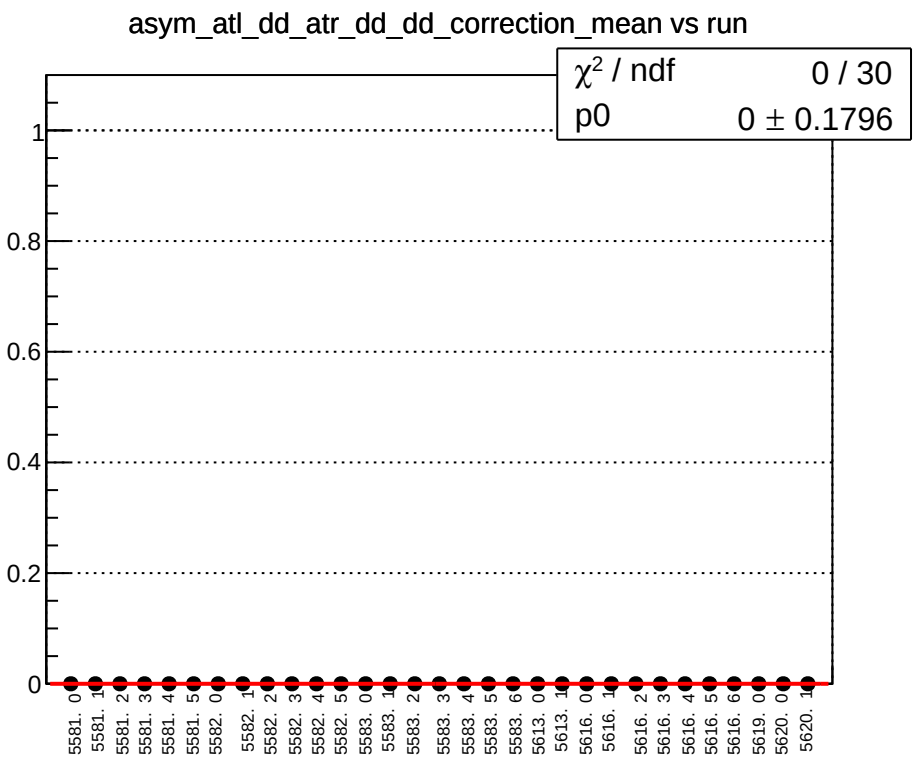

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 25.94 / 19
p0 5954 ± 5529
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 20
Mean 80.03
Std Dev 74.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 20
Mean −0.0202
Std Dev 1.139
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

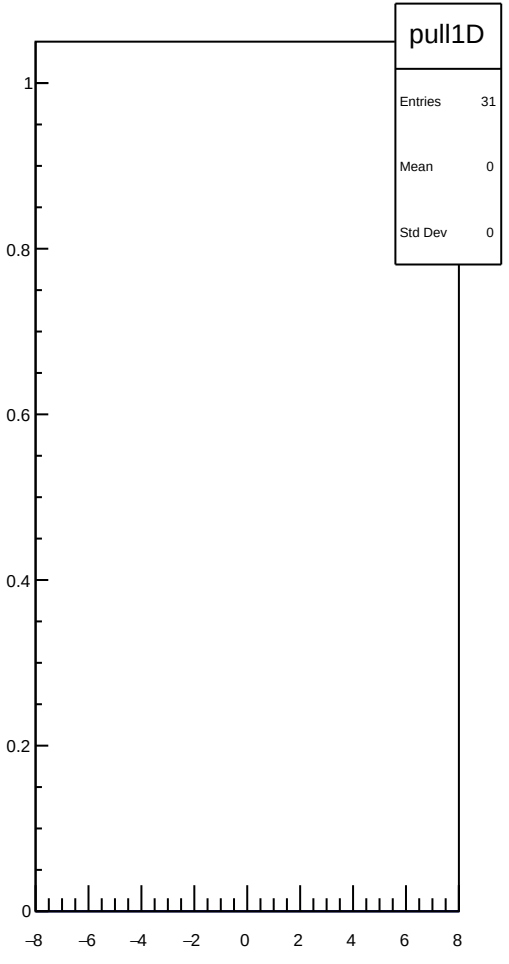

asym_atl_dd_atr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.814e+05 / 30
p0 2239 ± 3.434
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

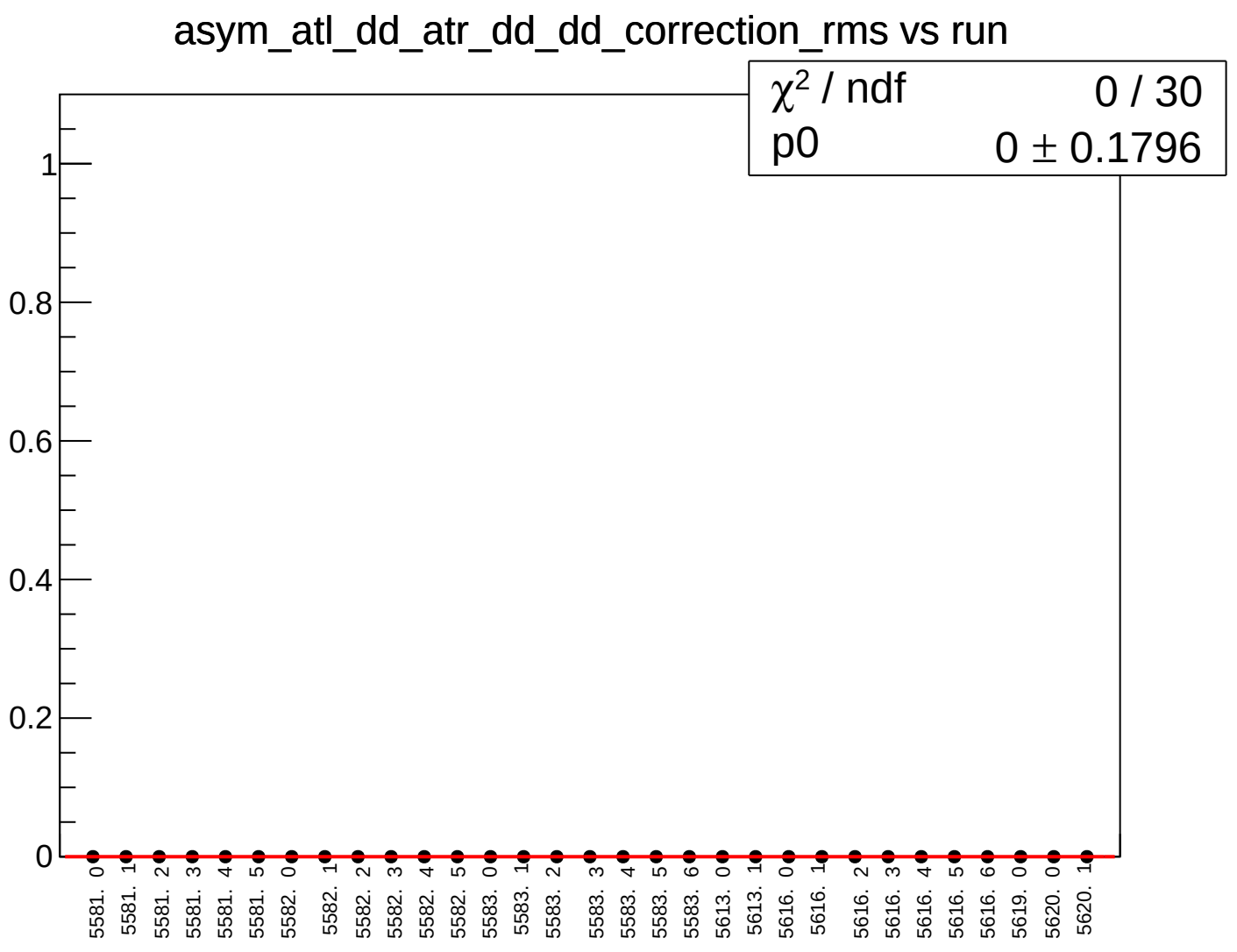

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 36.46 / 22
p0 1559 ± 3618
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
pull
Entries 23
Mean 27.5
Std Dev 15
4
3
2
1
0
−1

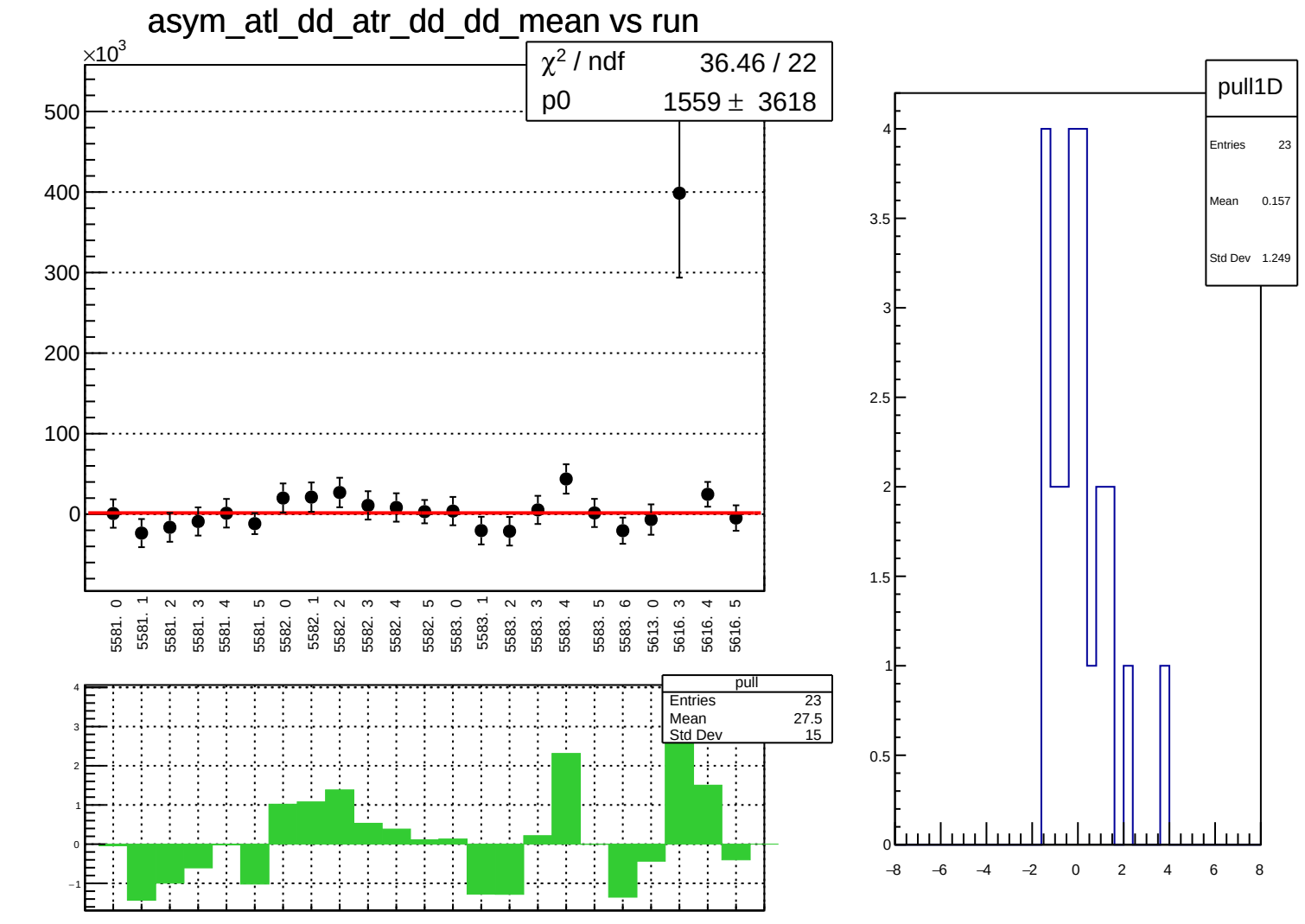

pull1D
Entries 23
Mean 0.157
Std Dev 1.249
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

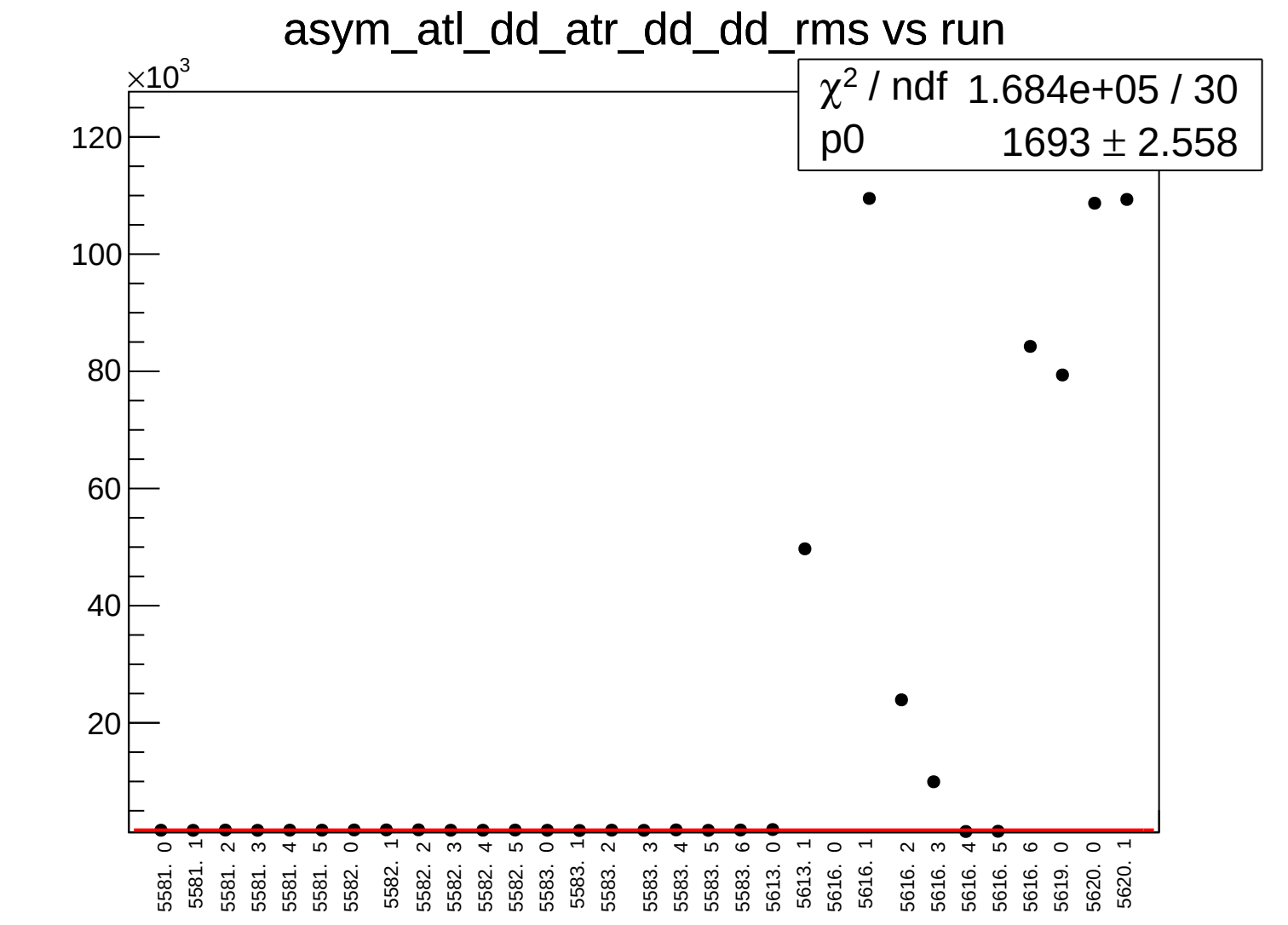

reg_asym_atl_dd_atr_dd_dd_rms vs run
×10^3
χ² / ndf 1.684e+05 / 30
p0 1693 ± 2.558
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

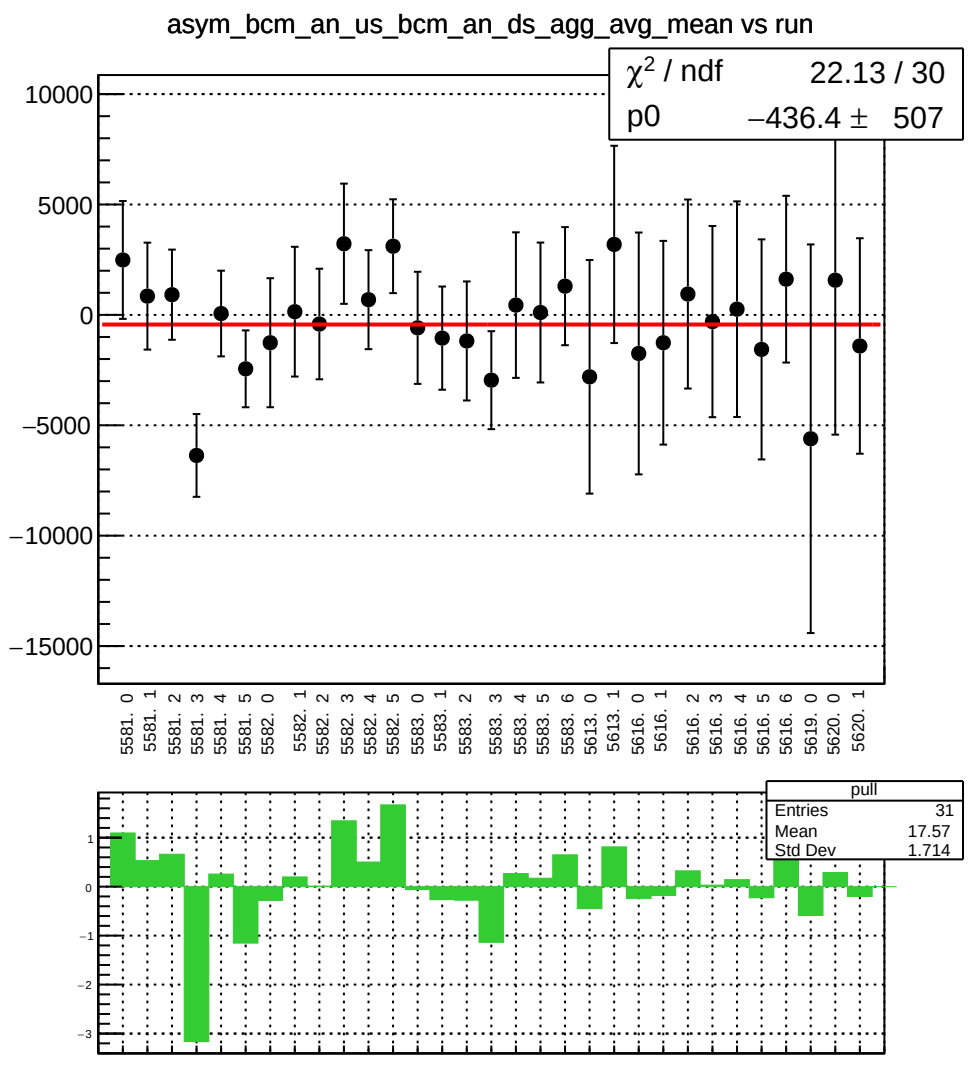

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 30
p0 0 ± 0.1796
1
0.8
0.6
0.4
0.2
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

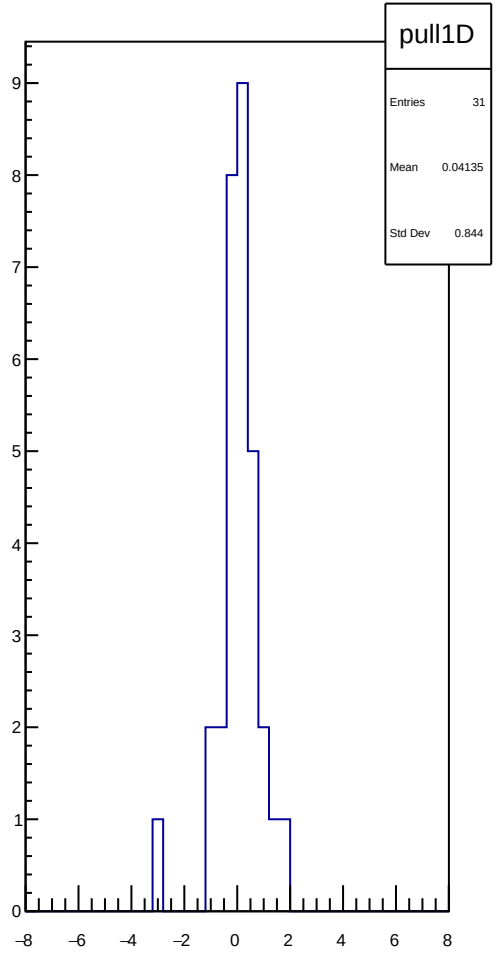

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

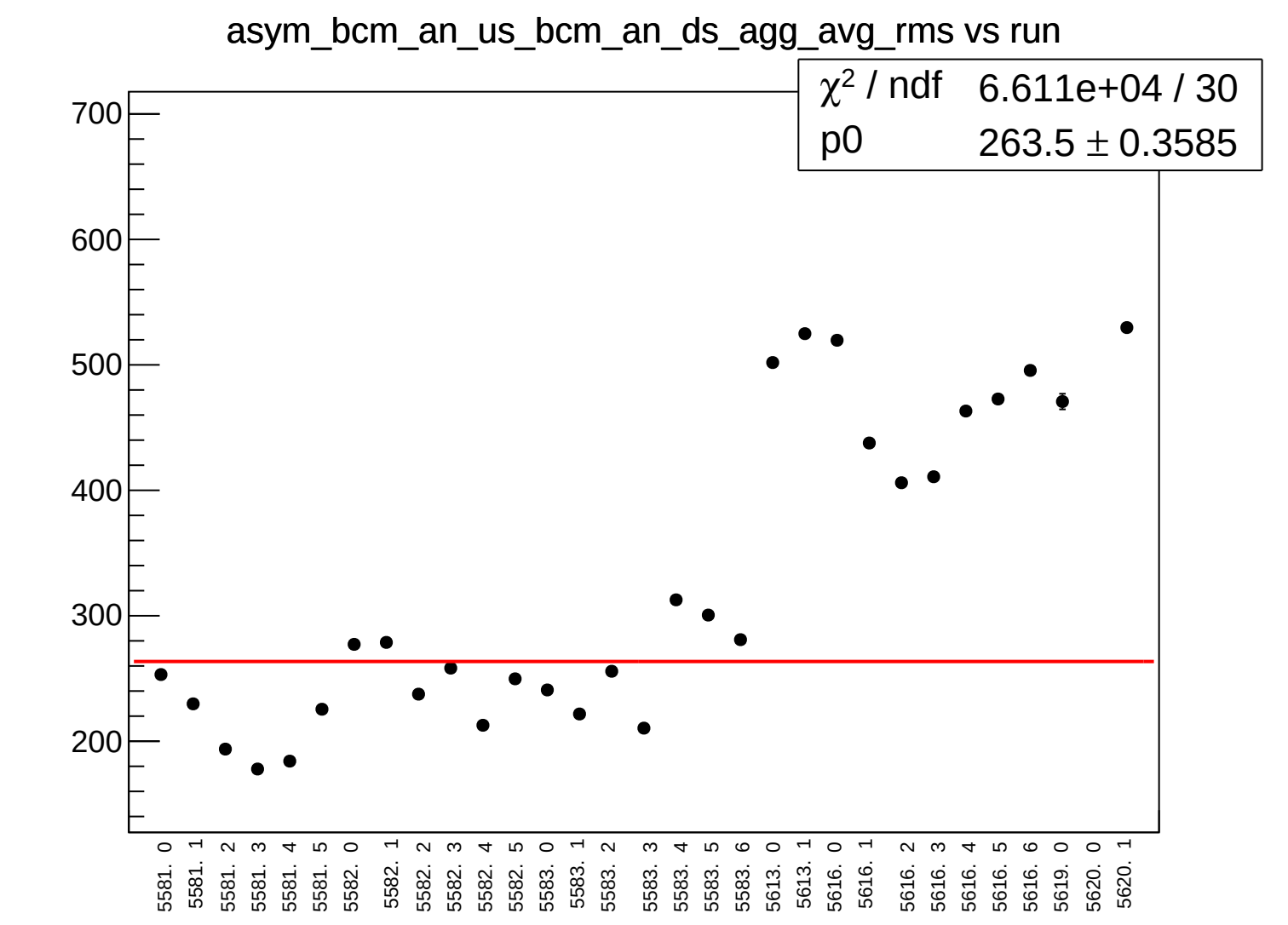

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 30
p0 0 ± 0.1796
1
0.8
0.6
0.4
0.2
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

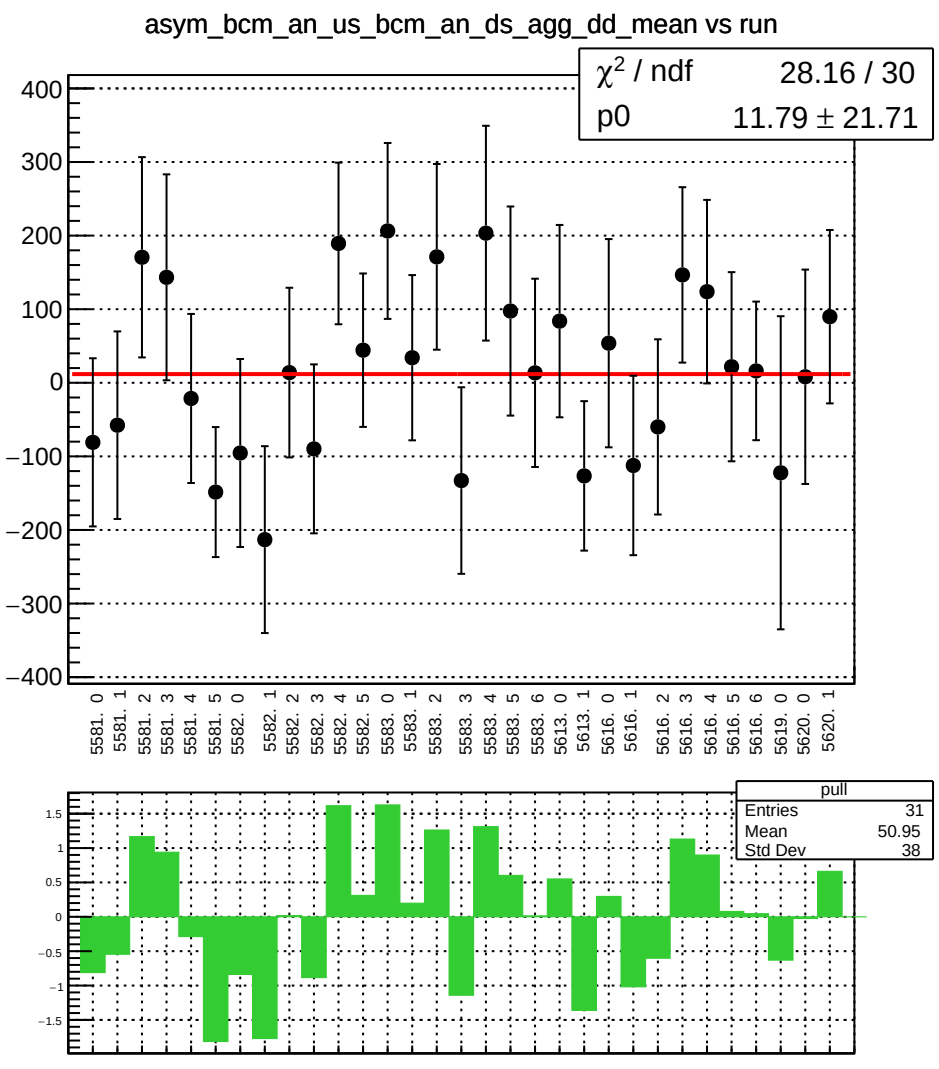

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 36.46 / 22
p0 1559 ± 3618
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
pull
Entries 23
Mean 27.5
Std Dev 15
pull1D
Entries 23
Mean 0.157
Std Dev 1.249

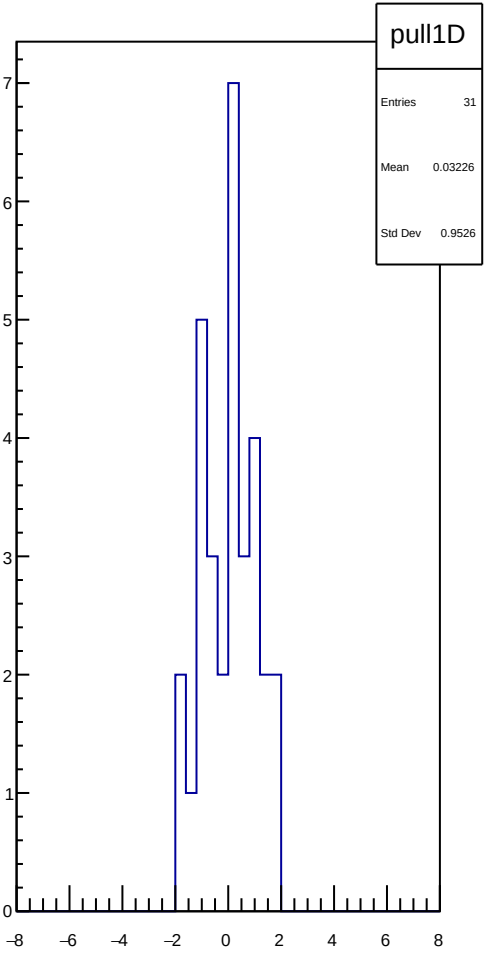

asym_atl_dd_atr_dd_dd_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.684e+05 / 30
p0 1693 ± 2.558
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

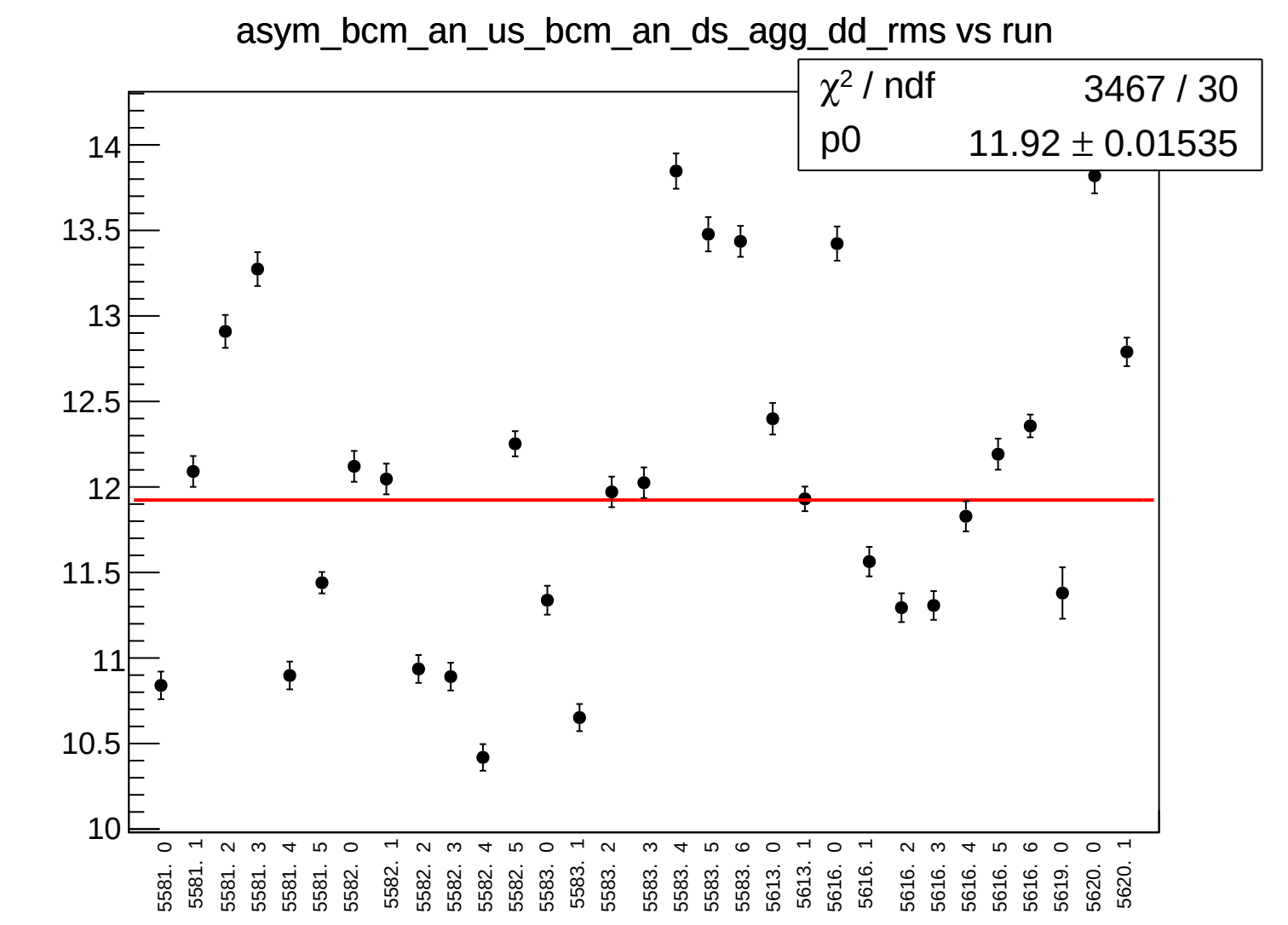

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.13 / 30
p0 −436.4 ± 507
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.57
Std Dev 1.714
1
0
−1
−2
−3

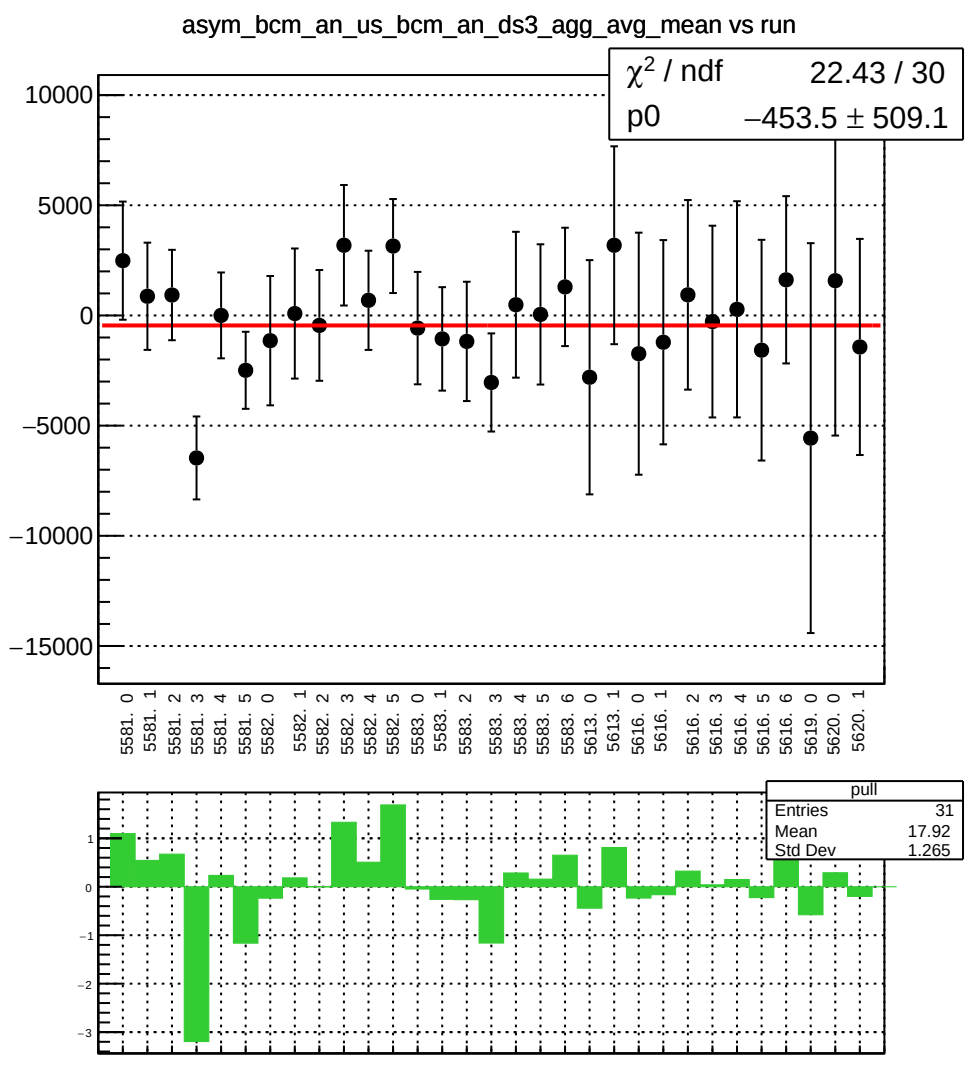

pull1D
Entries 31
Mean 0.04135
Std Dev 0.844
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

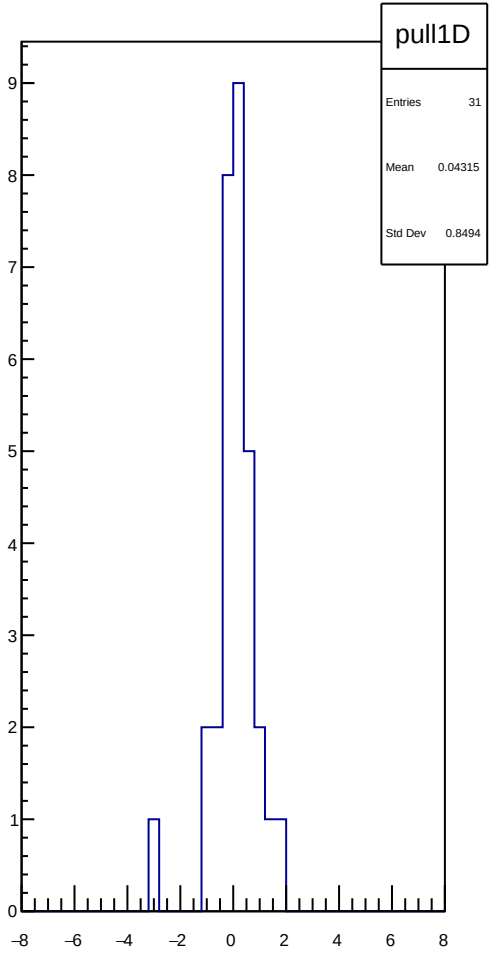

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6.611e+04 / 30
p0 263.5 ± 0.3585
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

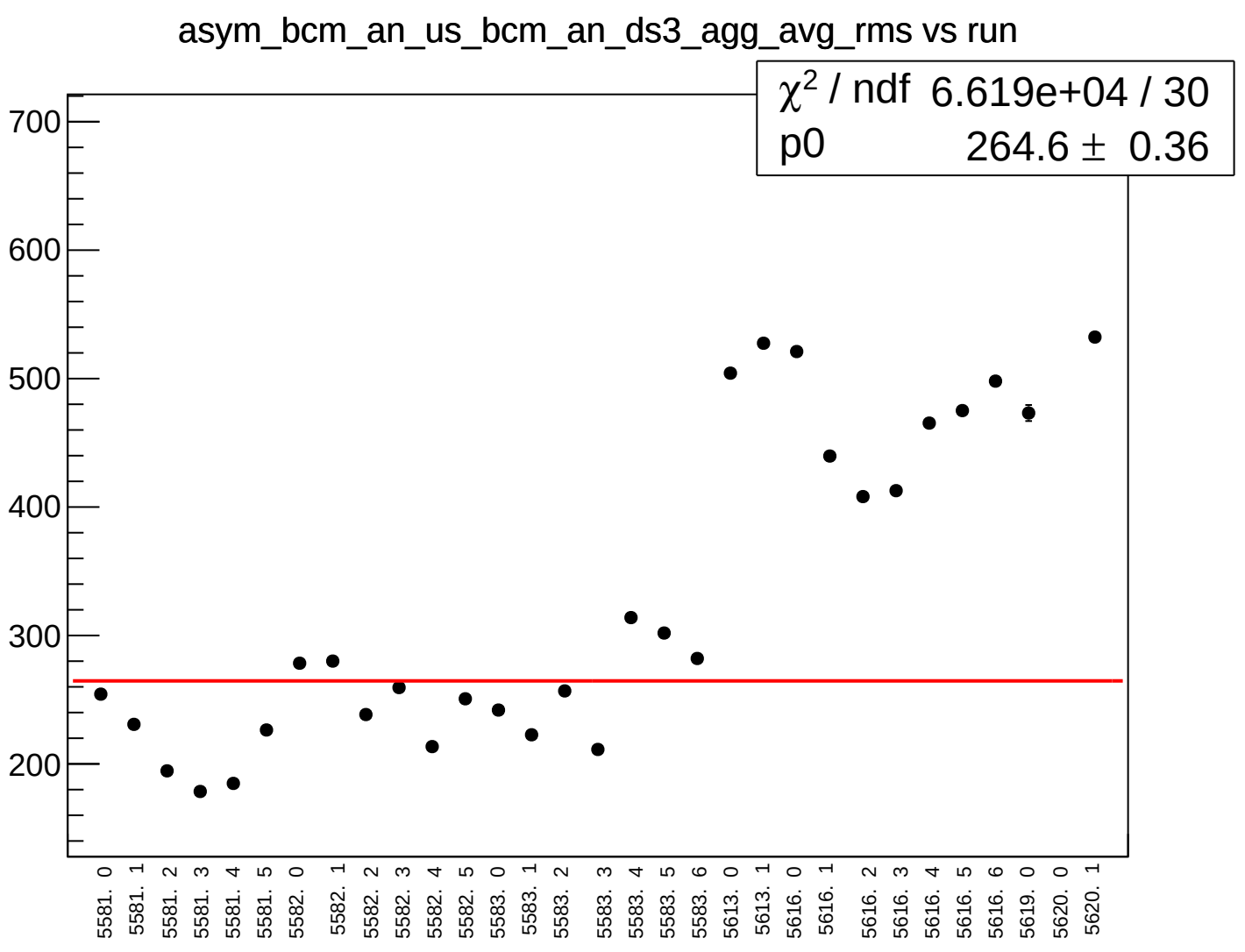

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 28.16 / 30
p0 11.79 ± 21.71
400
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 50.95
Std Dev 38
1.5
1
0.5
0
−0.5
−1
−1.5

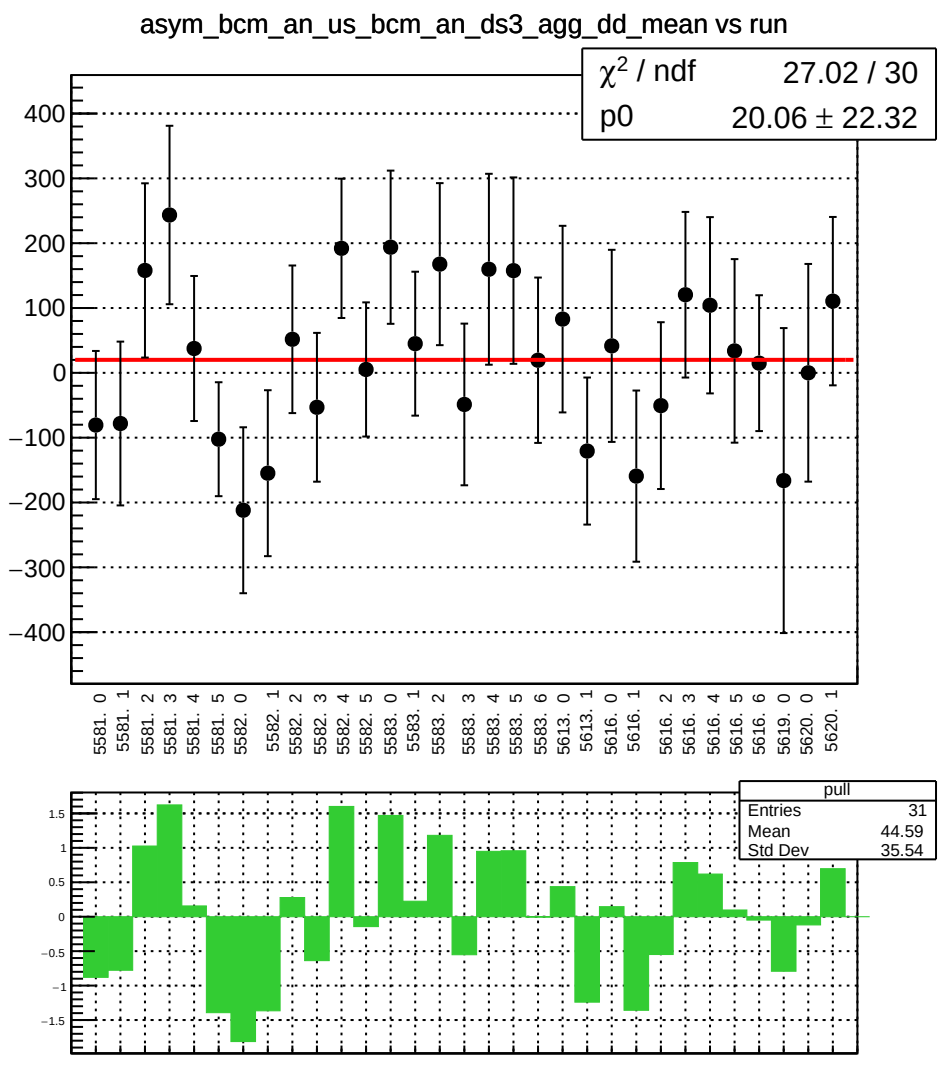

pull1D
Entries 31
Mean 0.03226
Std Dev 0.9526
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

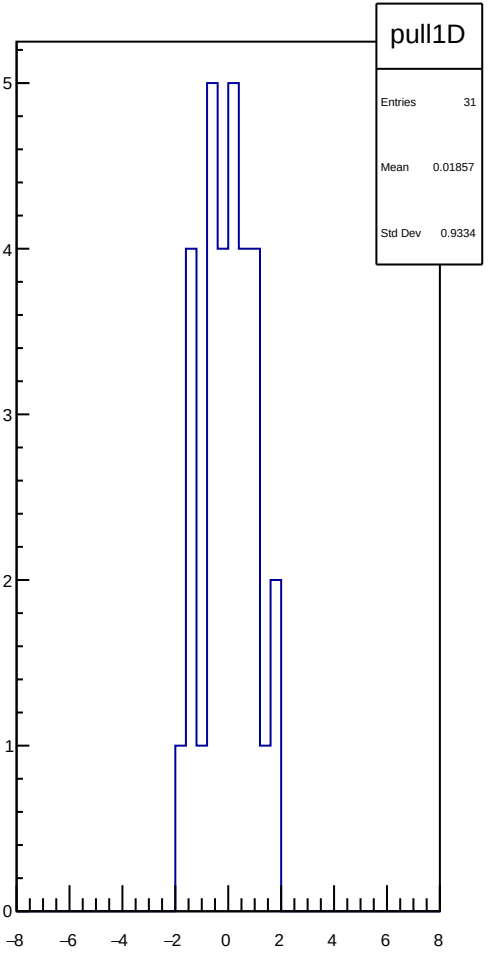

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3467 / 30
p0 11.92 ± 0.01535
14
13.5
13
12.5
12
11.5
11
10.5
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

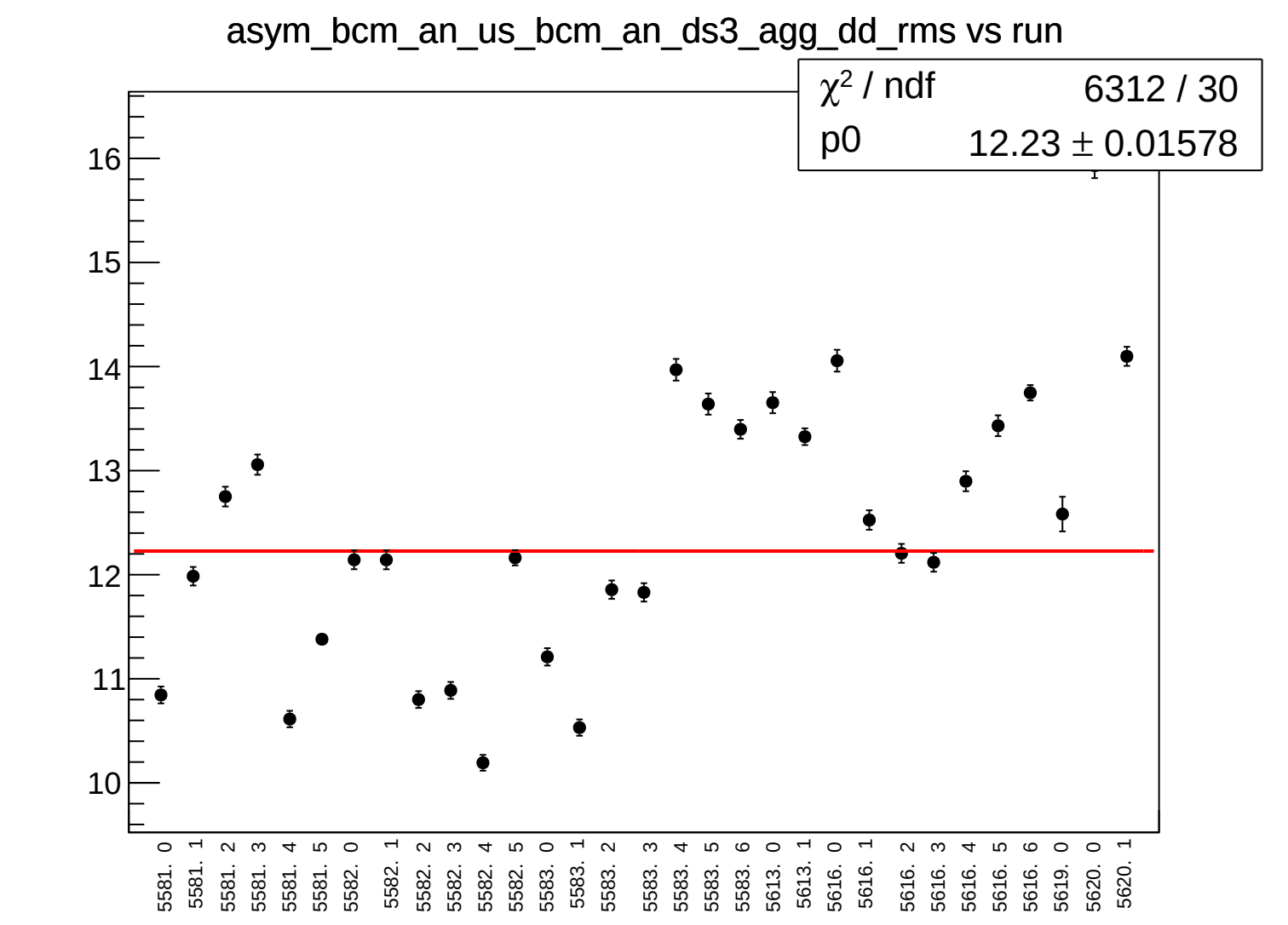

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 22.43 / 30
p0 −453.5 ± 509.1
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.92
Std Dev 1.265
1
0
−1
−2
−3

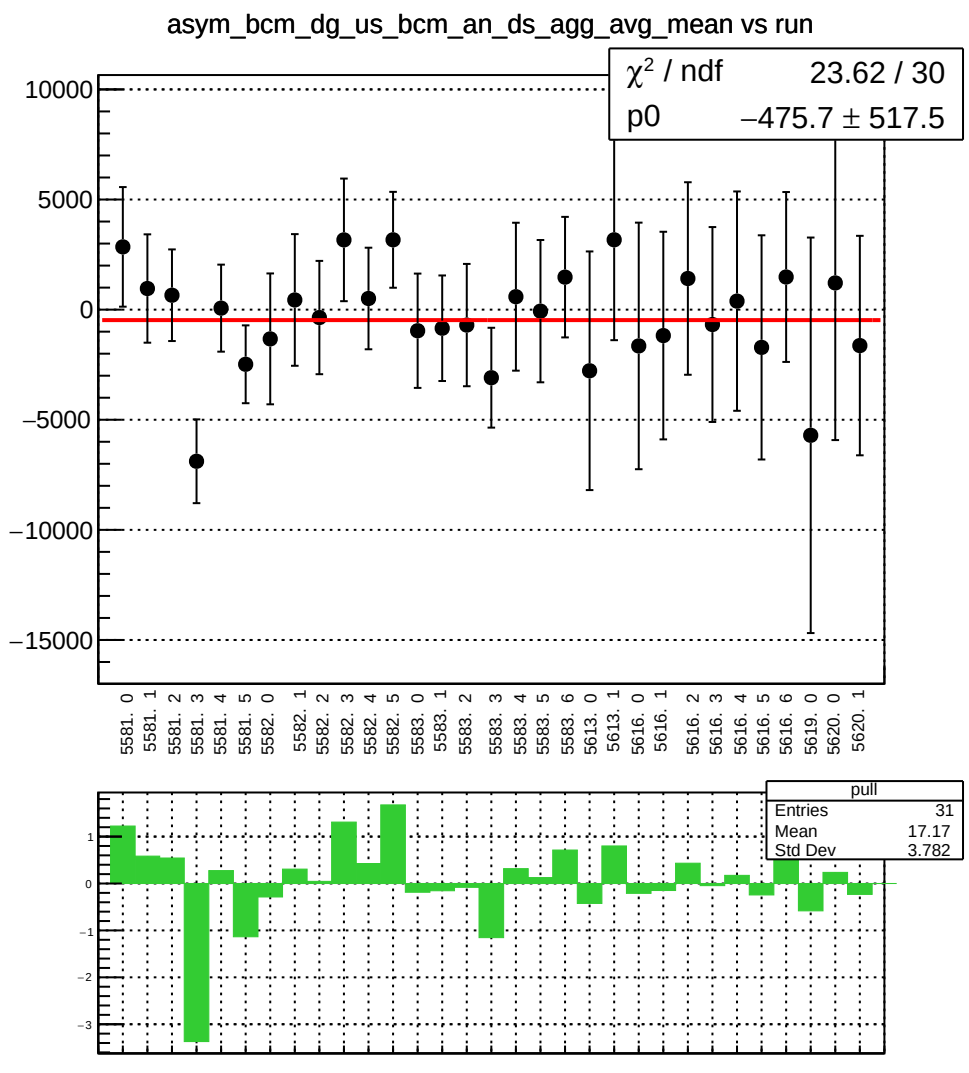

pull1D
Entries 31
Mean 0.04315
Std Dev 0.8494
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

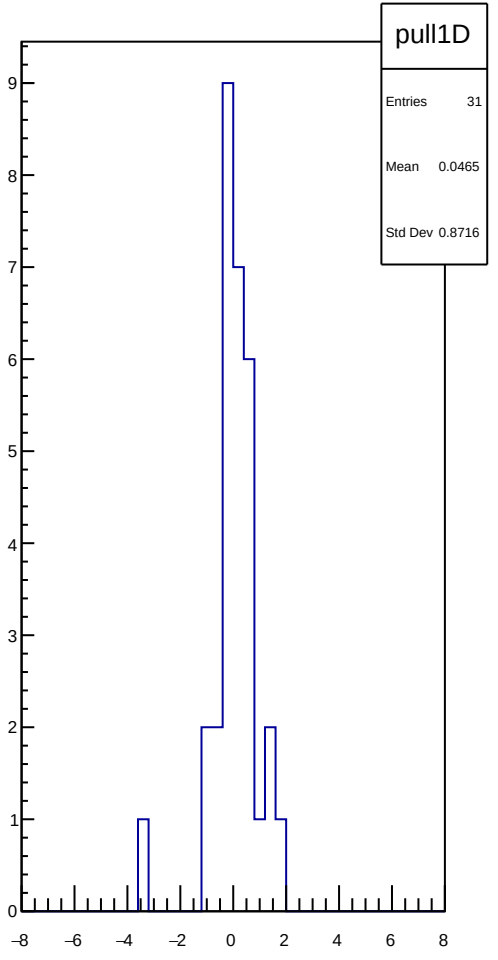

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 6.619e+04 / 30
p0 264.6 ± 0.36
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

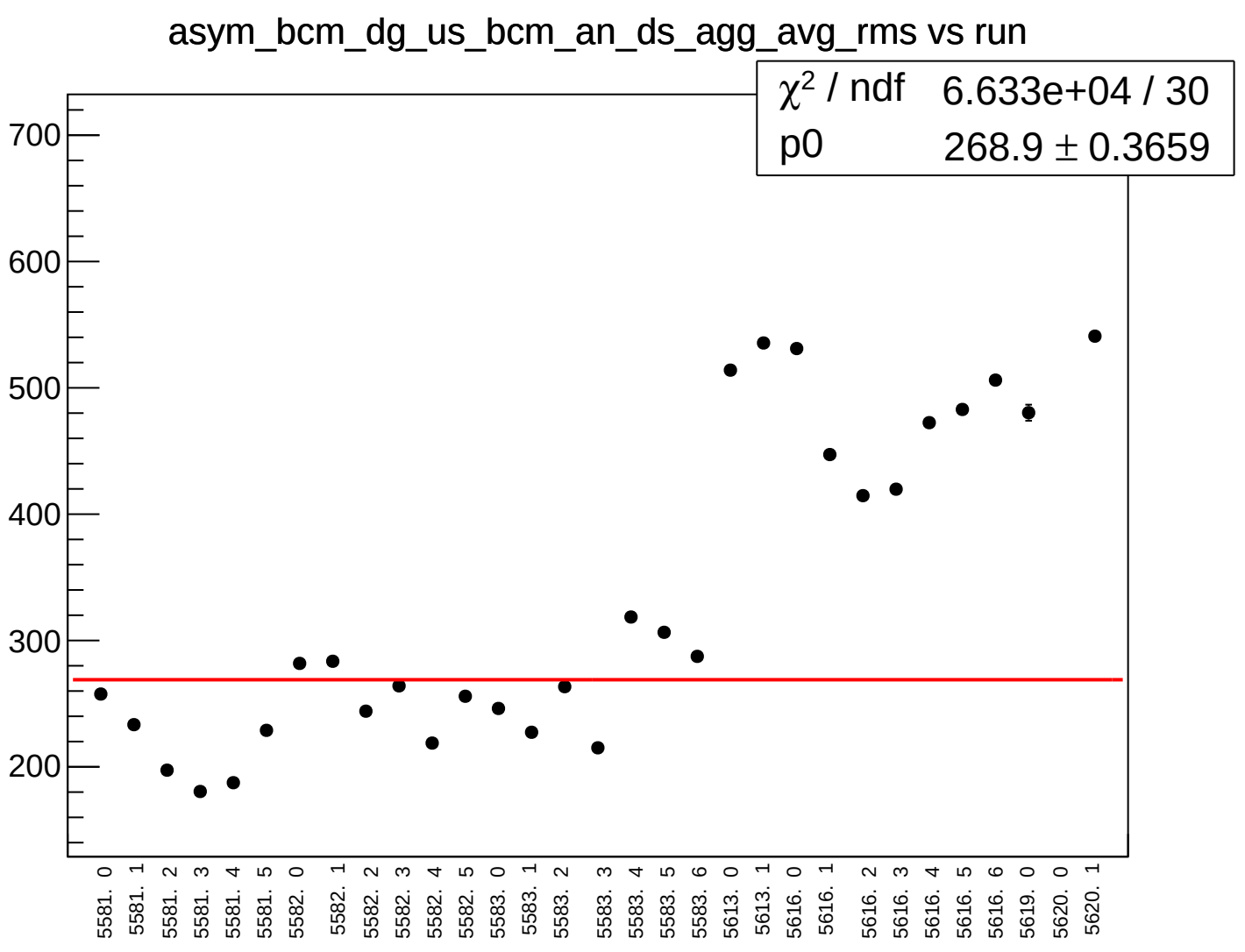

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 27.02 / 30
p0 20.06 ± 22.32
400
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 44.59
Std Dev 35.54
1.5
1
0.5
0
−0.5
−1
−1.5

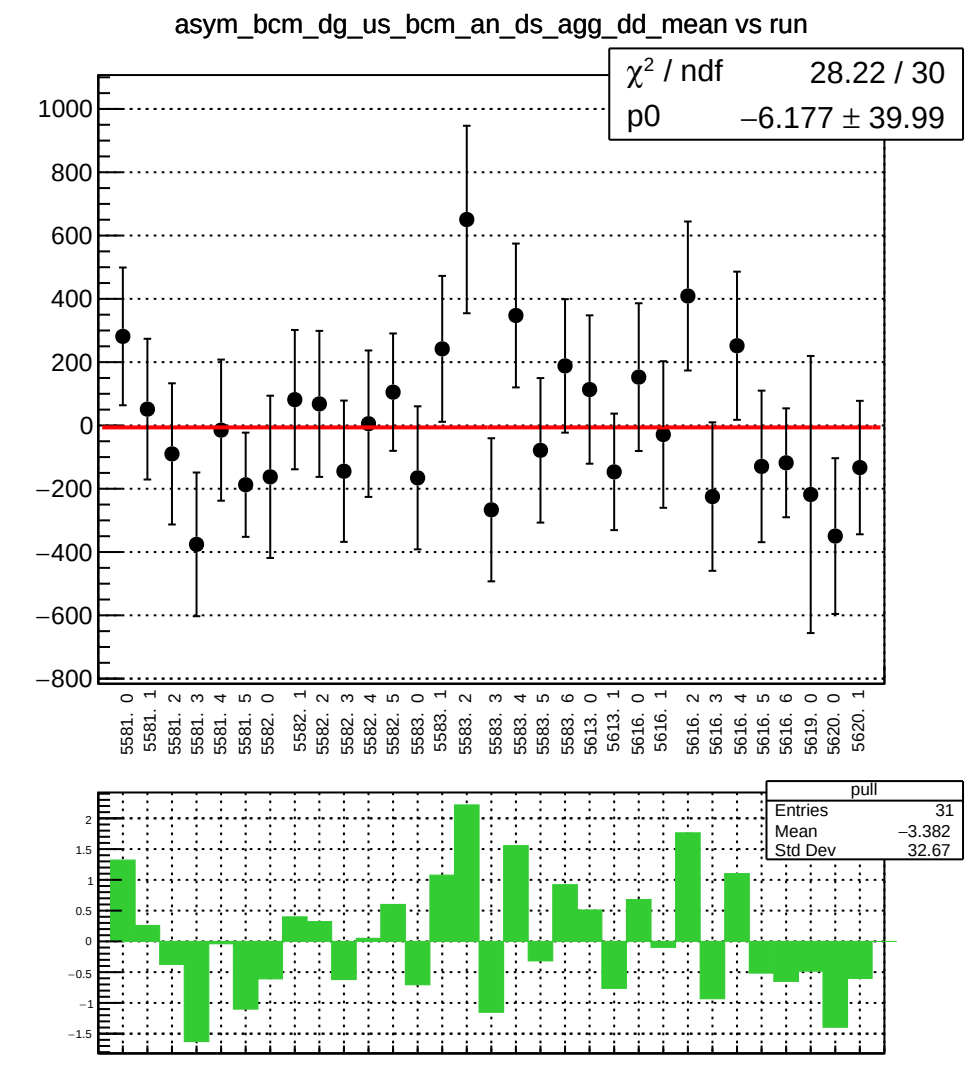

pull1D
Entries 31
Mean 0.01857
Std Dev 0.9334
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

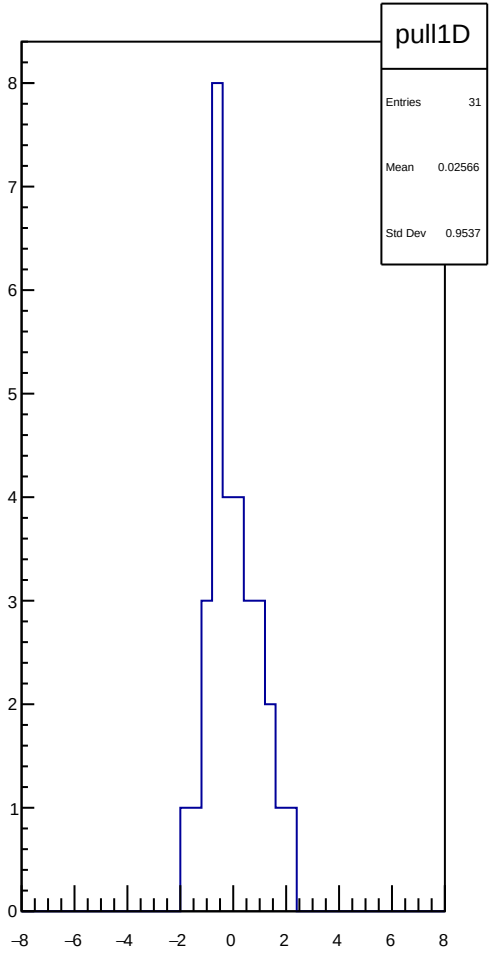

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 6312 / 30
p0 12.23 ± 0.01578
16
15
14
13
12
11
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

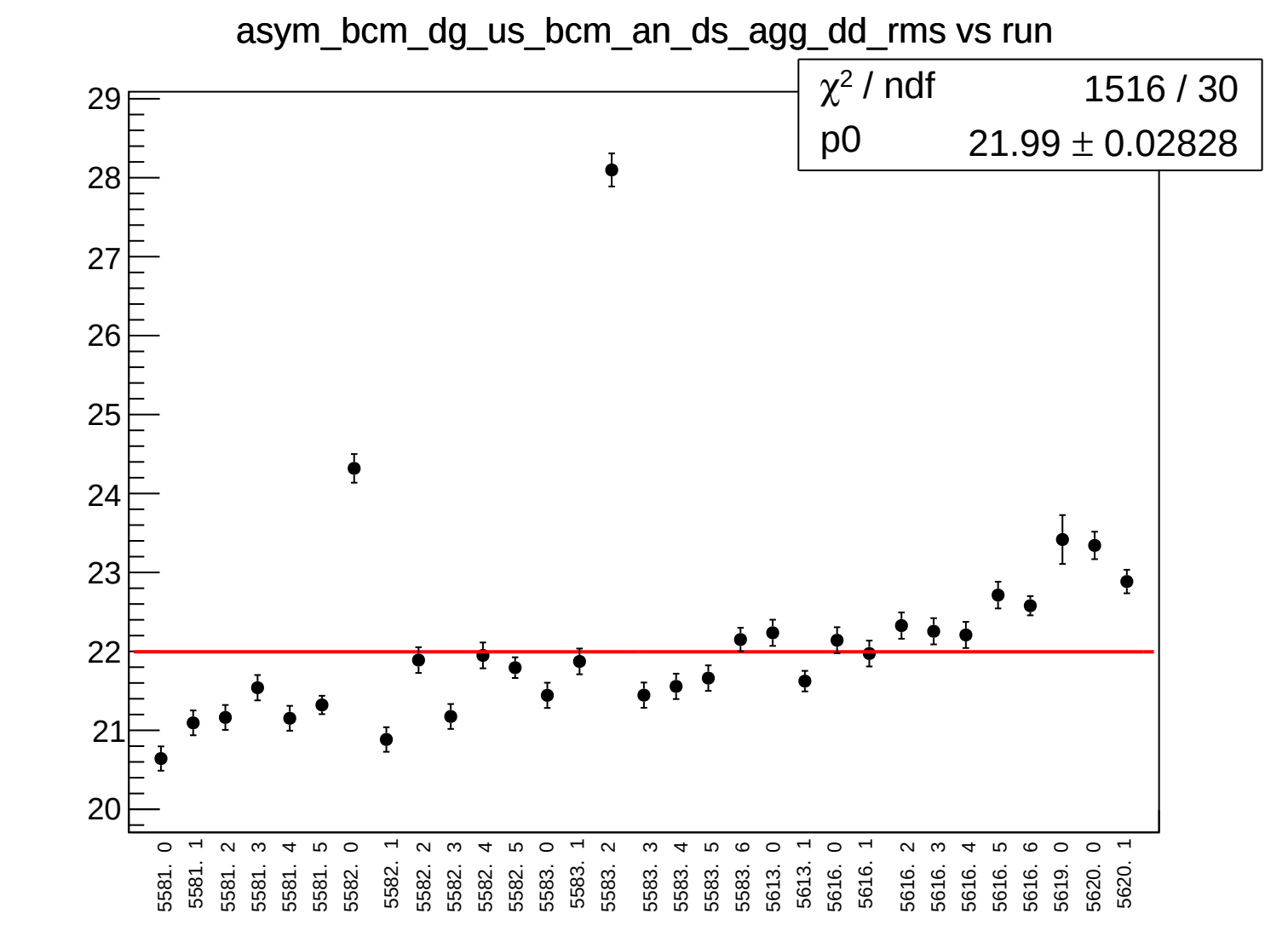

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.62 / 30
p0 −475.7 ± 517.5
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.17
Std Dev 3.782
1
0
−1
−2
−3

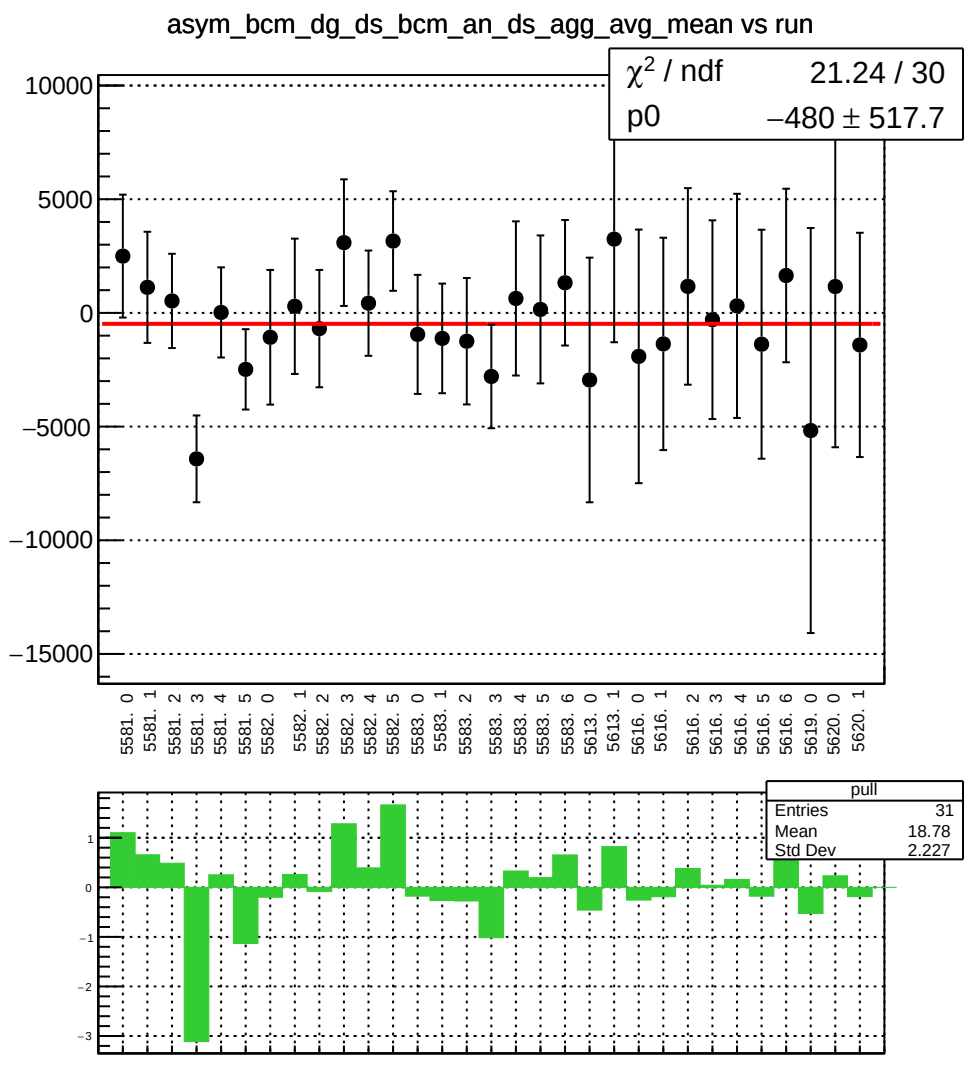

pull1D
Entries 31
Mean 0.0465
Std Dev 0.8716
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

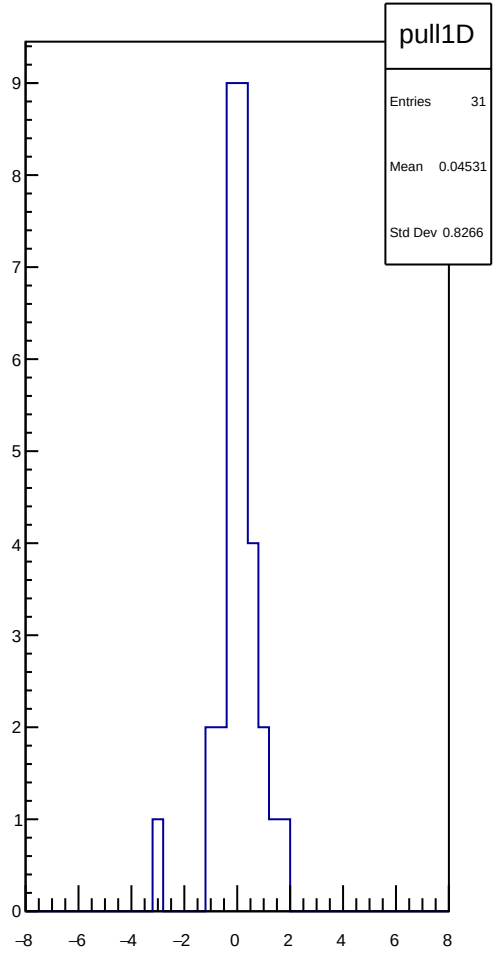

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6.633e+04 / 30
p0 268.9 ± 0.3659
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

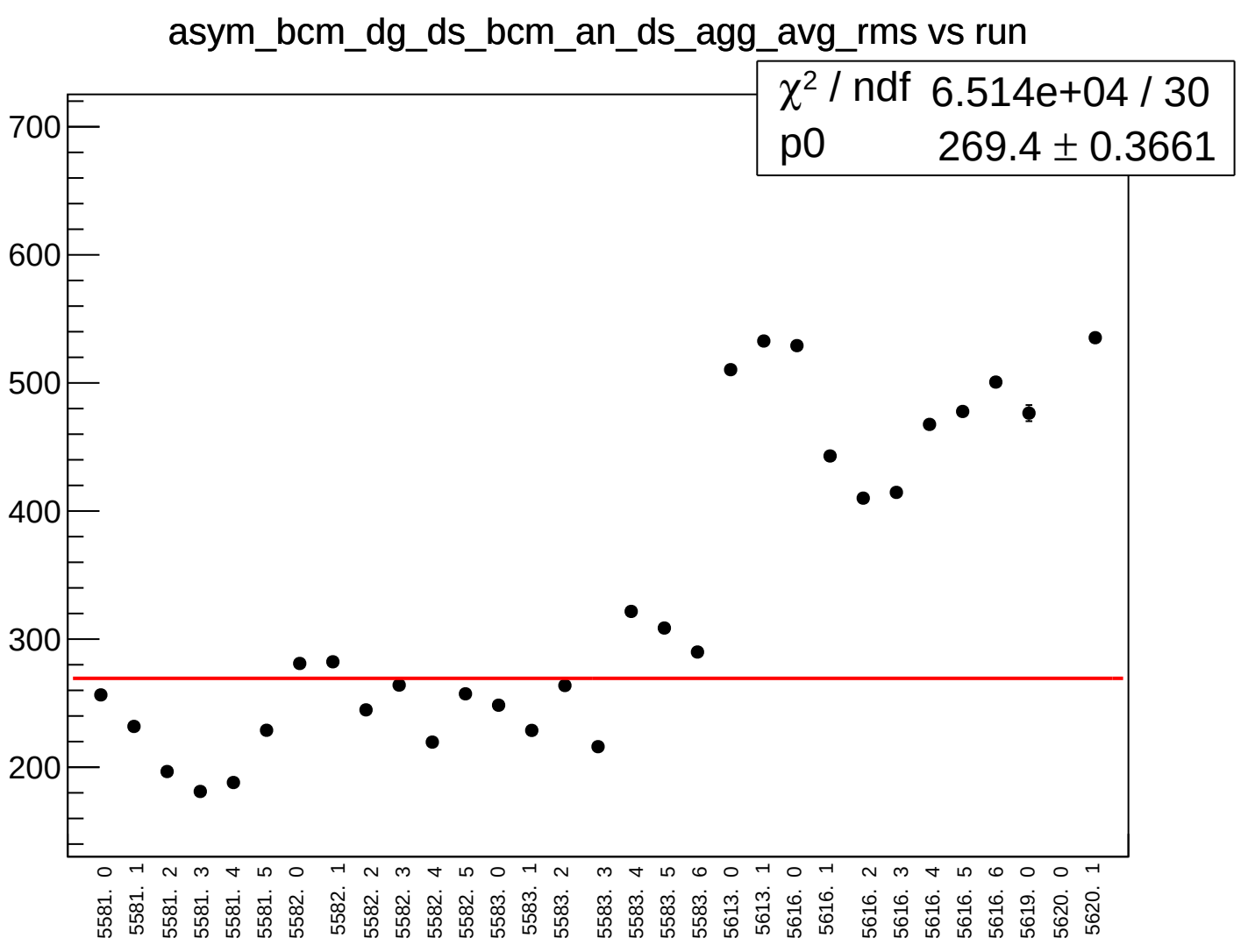

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 28.22 / 30
p0 −6.177 ± 39.99
1000
800
600
400
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −3.382
Std Dev 32.67
2
1.5
1
0.5
0
−0.5
−1
−1.5

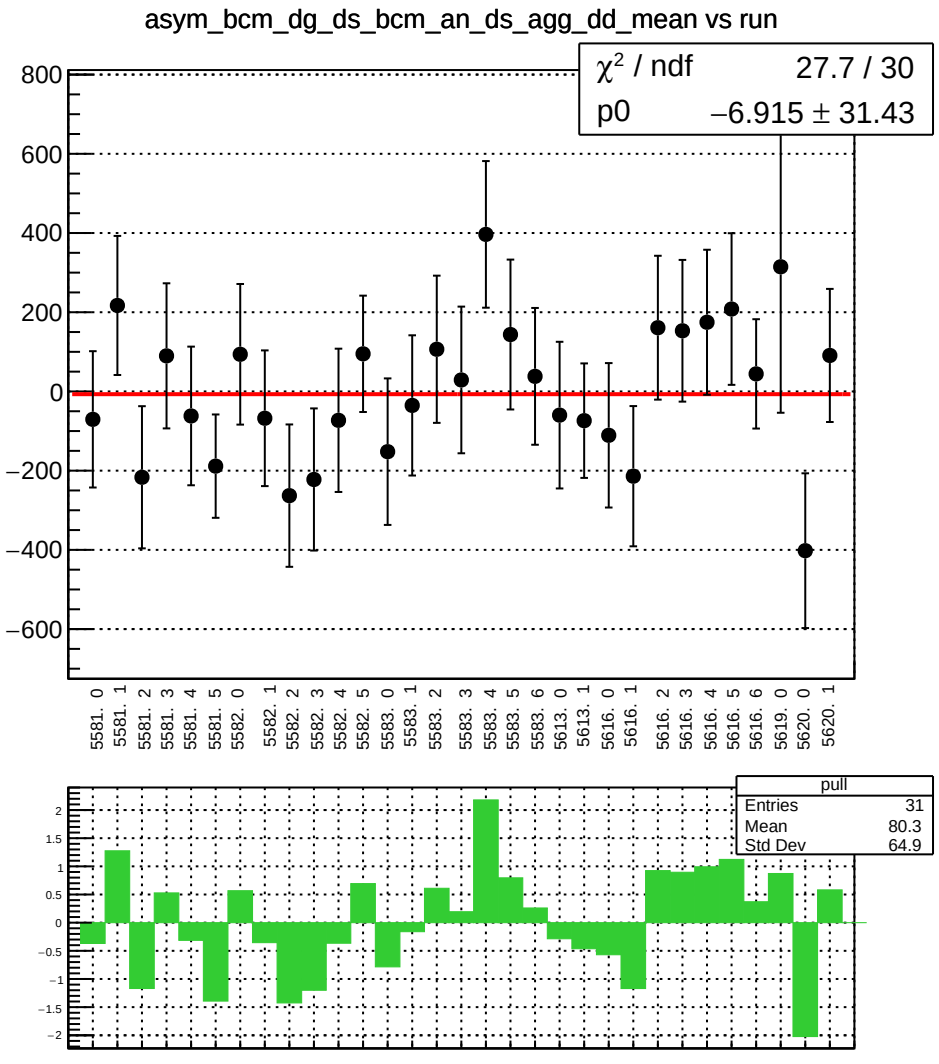

pull1D
Entries 31
Mean 0.02566
Std Dev 0.9537
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

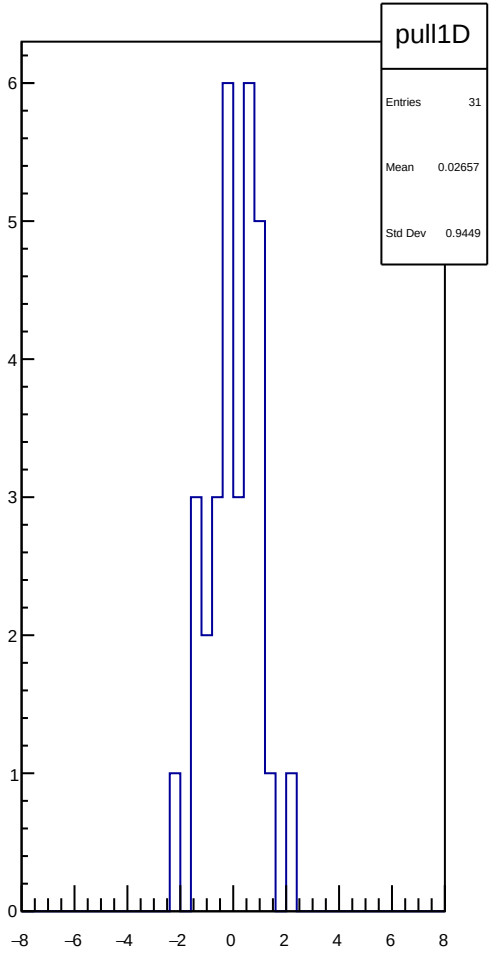

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1516 / 30
p0 21.99 ± 0.02828
29
28
27
26
25
24
23
22
21
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

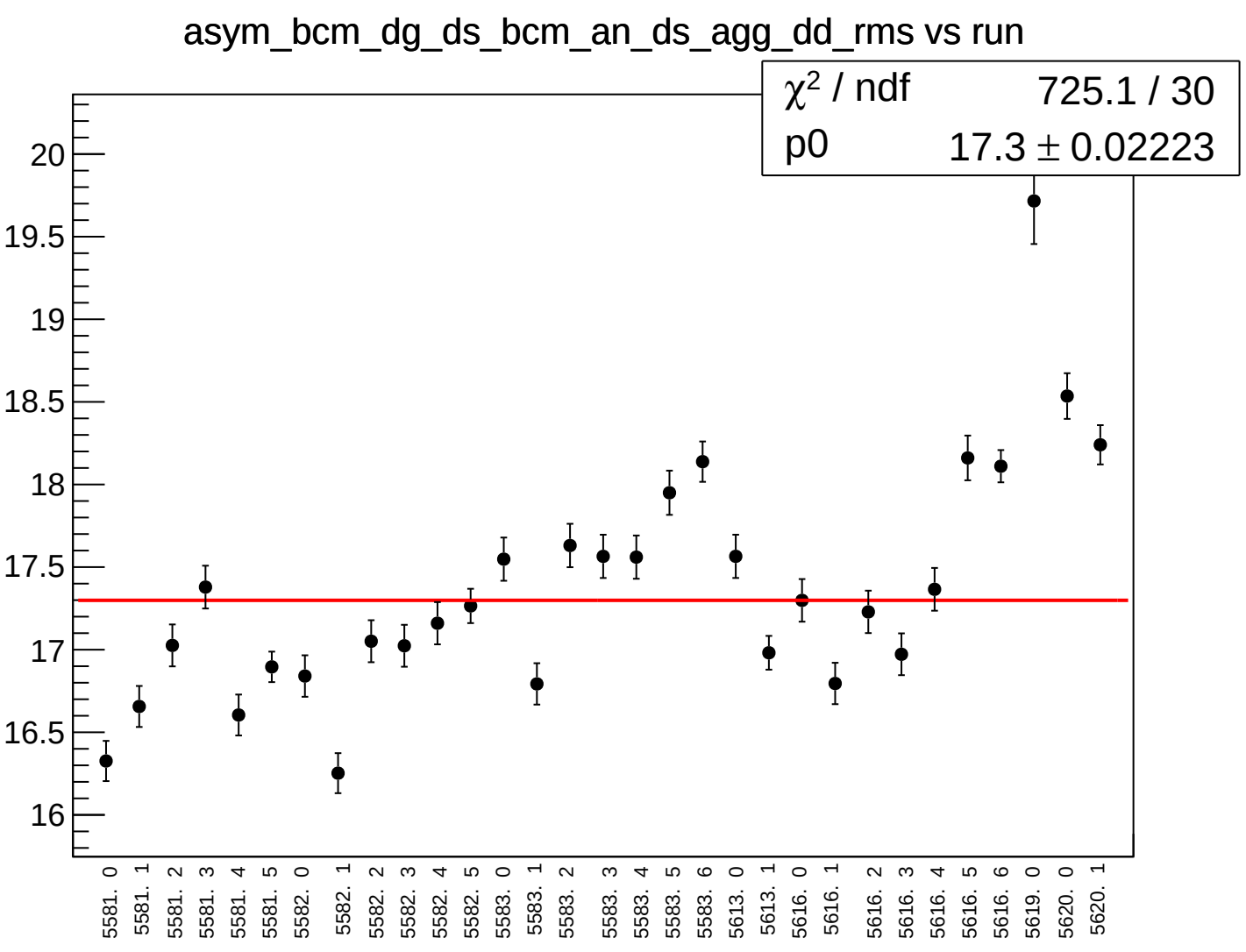

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.24 / 30
p0 −480 ± 517.7
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 18.78
Std Dev 2.227
1
0
−1
−2
−3

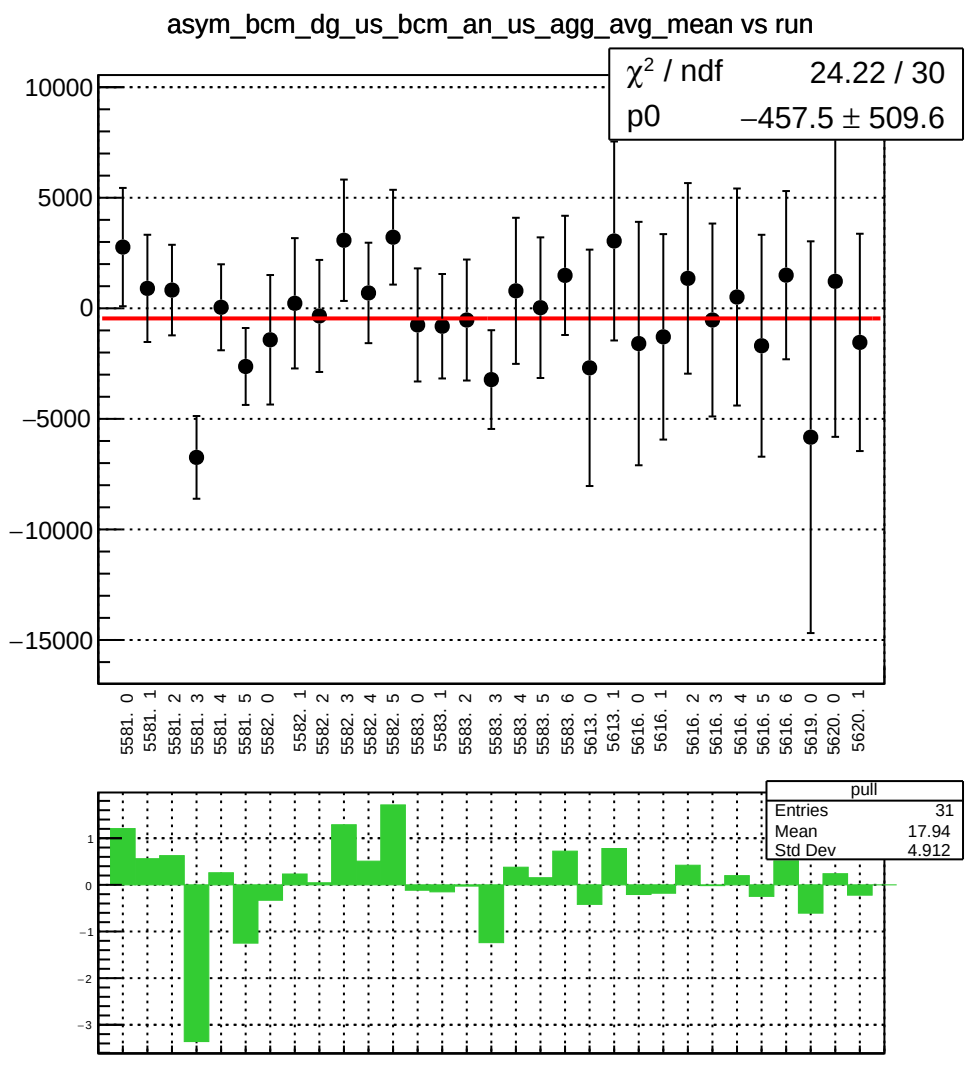

pull1D
Entries 31
Mean 0.04531
Std Dev 0.8266
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

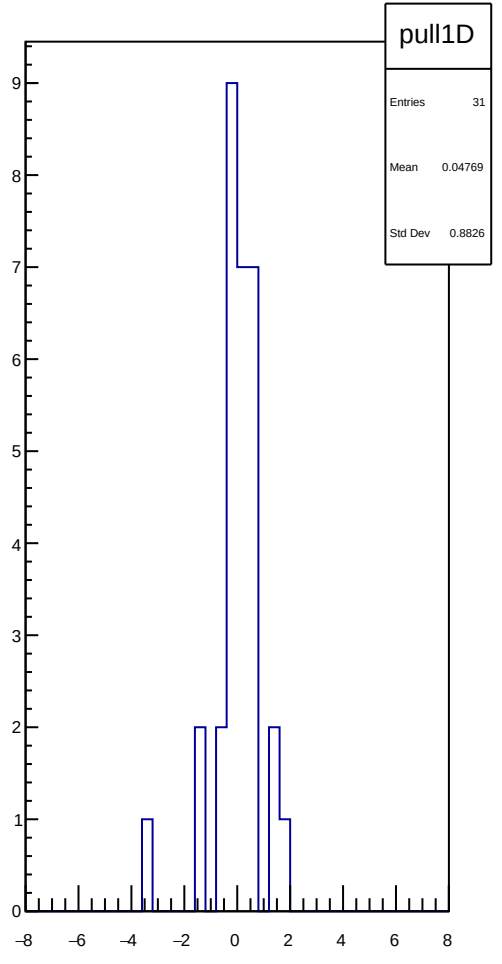

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6.514e+04 / 30
p0 269.4 ± 0.3661
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

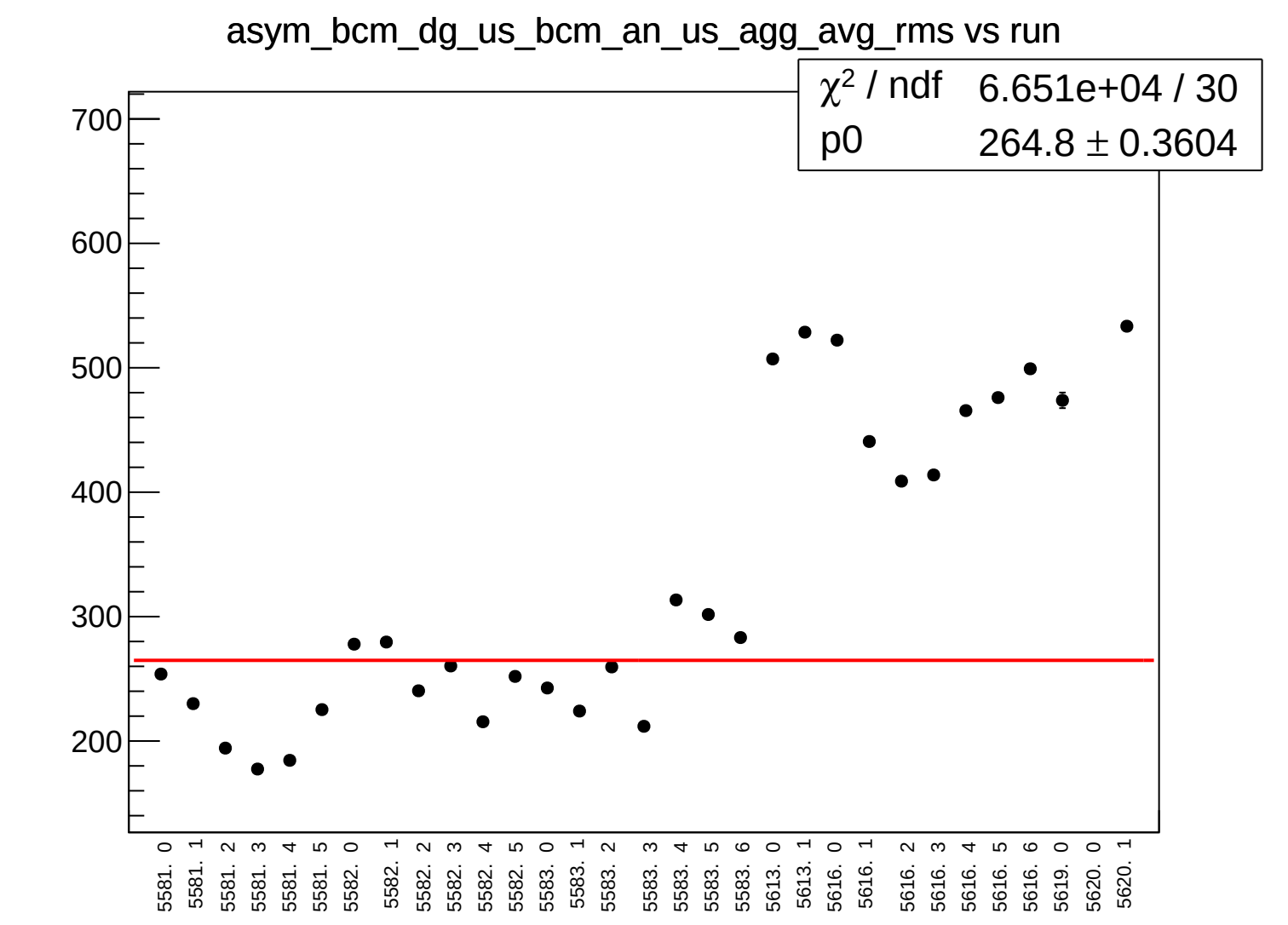

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 27.7 / 30
p0 −6.915 ± 31.43
800
600
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 80.3
Std Dev 64.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

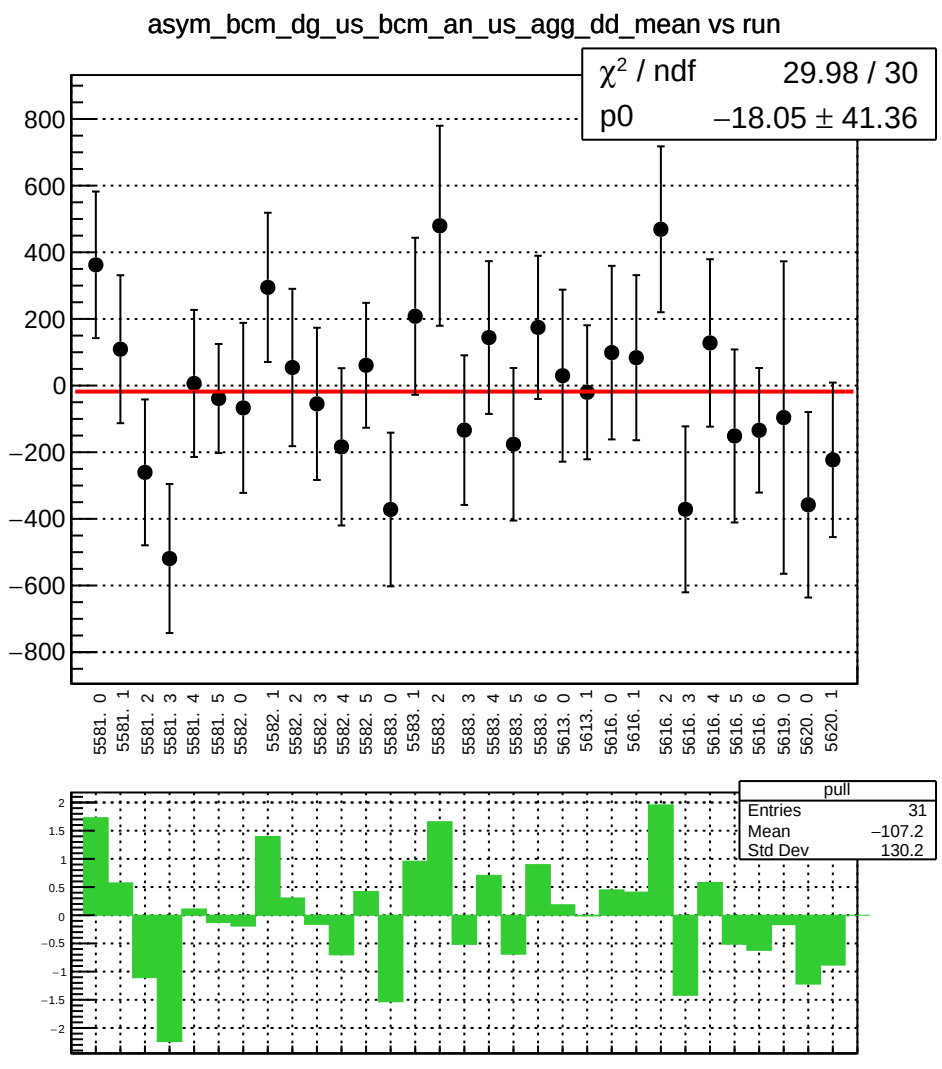

pull1D
Entries 31
Mean 0.02657
Std Dev 0.9449
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

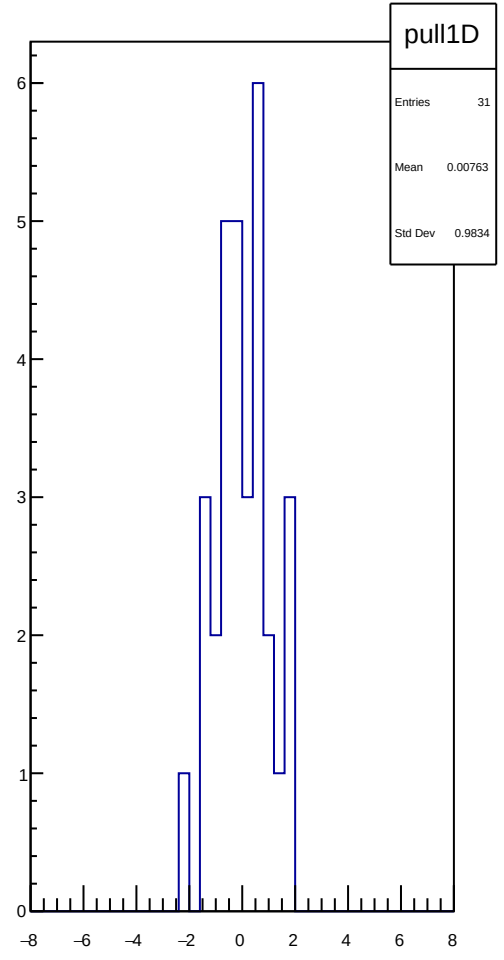

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 725.1 / 30
p0 17.3 ± 0.02223
20
19.5
19
18.5
18
17.5
17
16.5
16
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

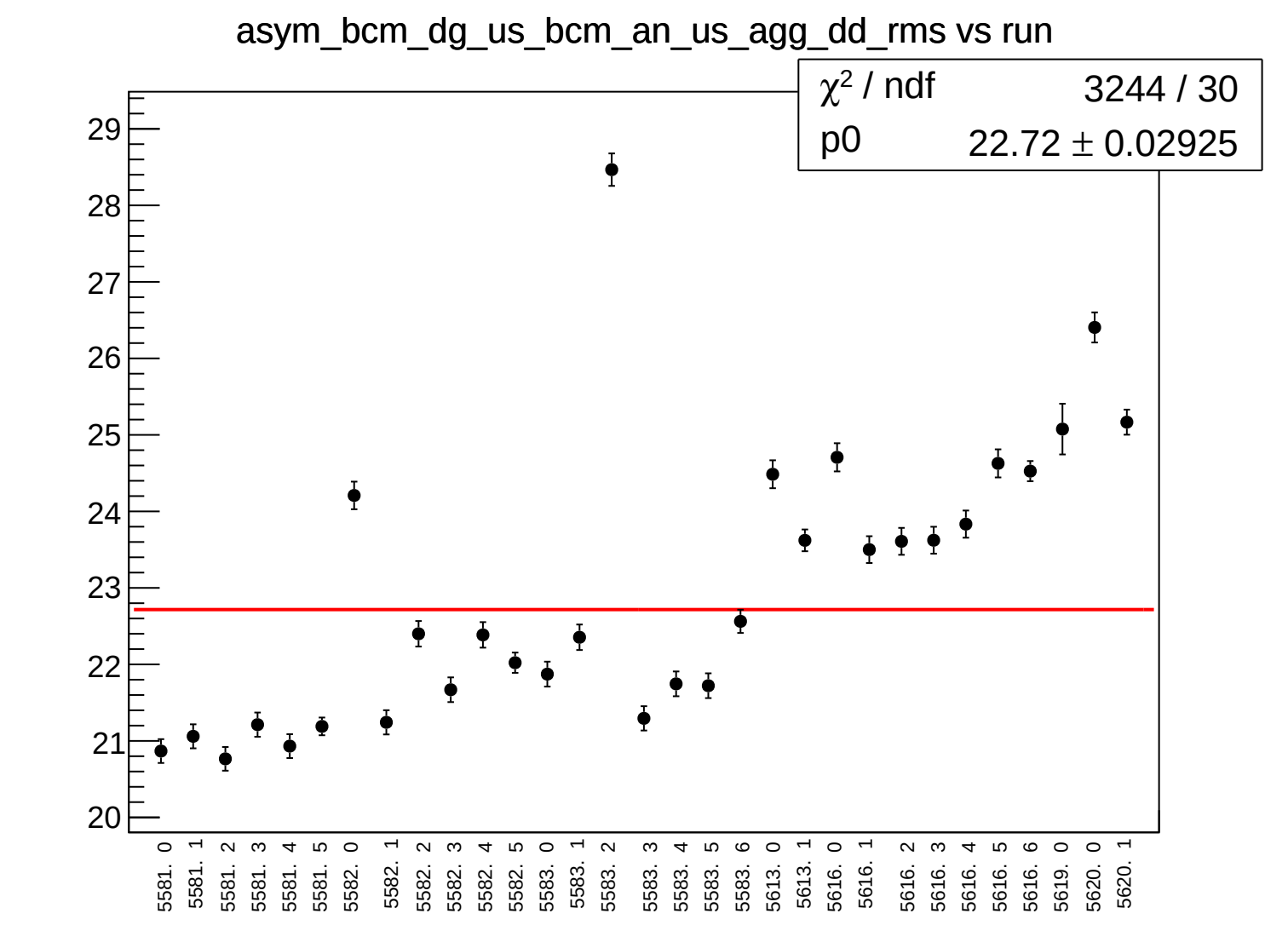

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.22 / 30
p0 −457.5 ± 509.6
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.94
Std Dev 4.912
1
0
−1
−2
−3

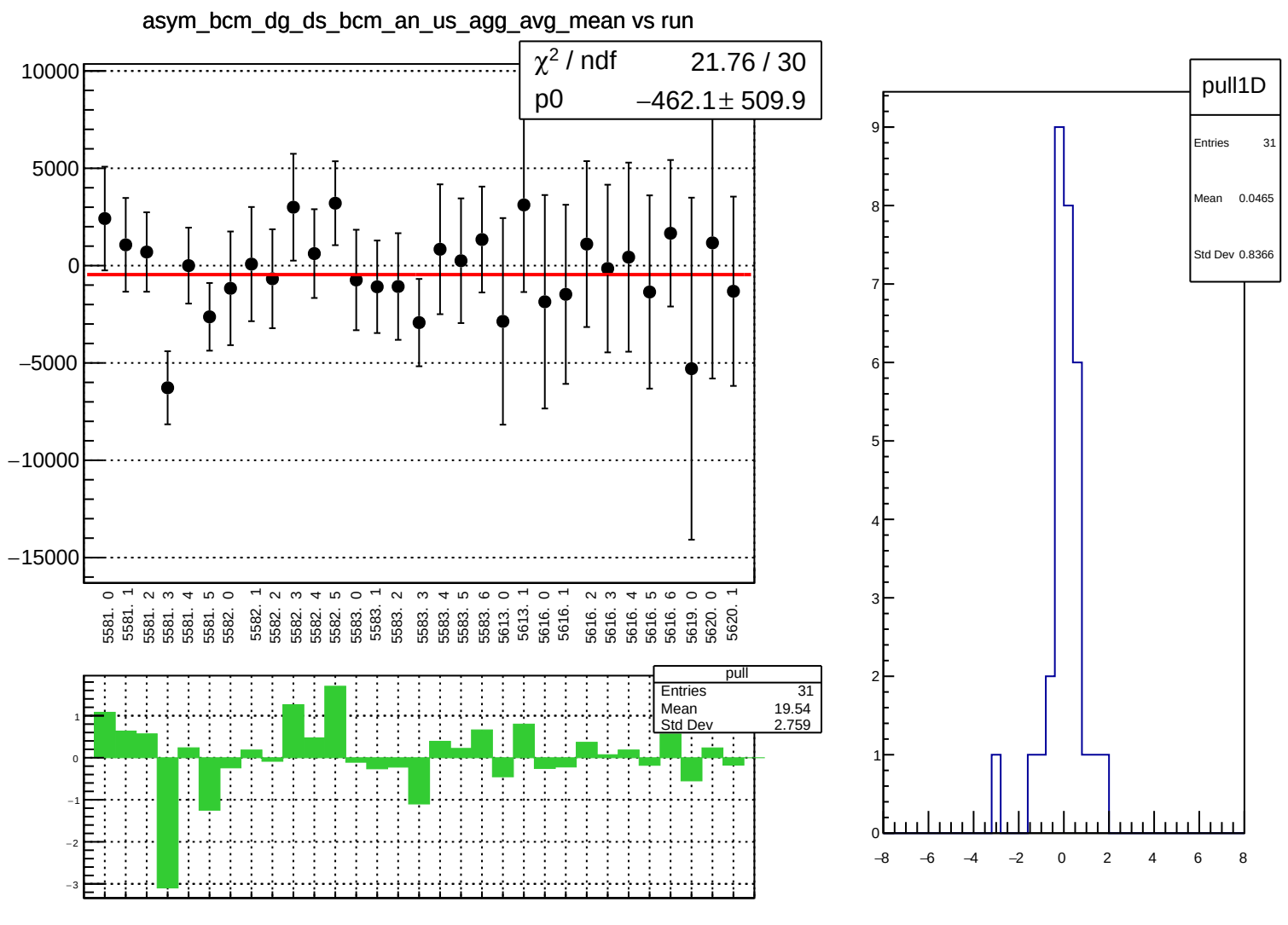

pull1D
Entries 31
Mean 0.04769
Std Dev 0.8826
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

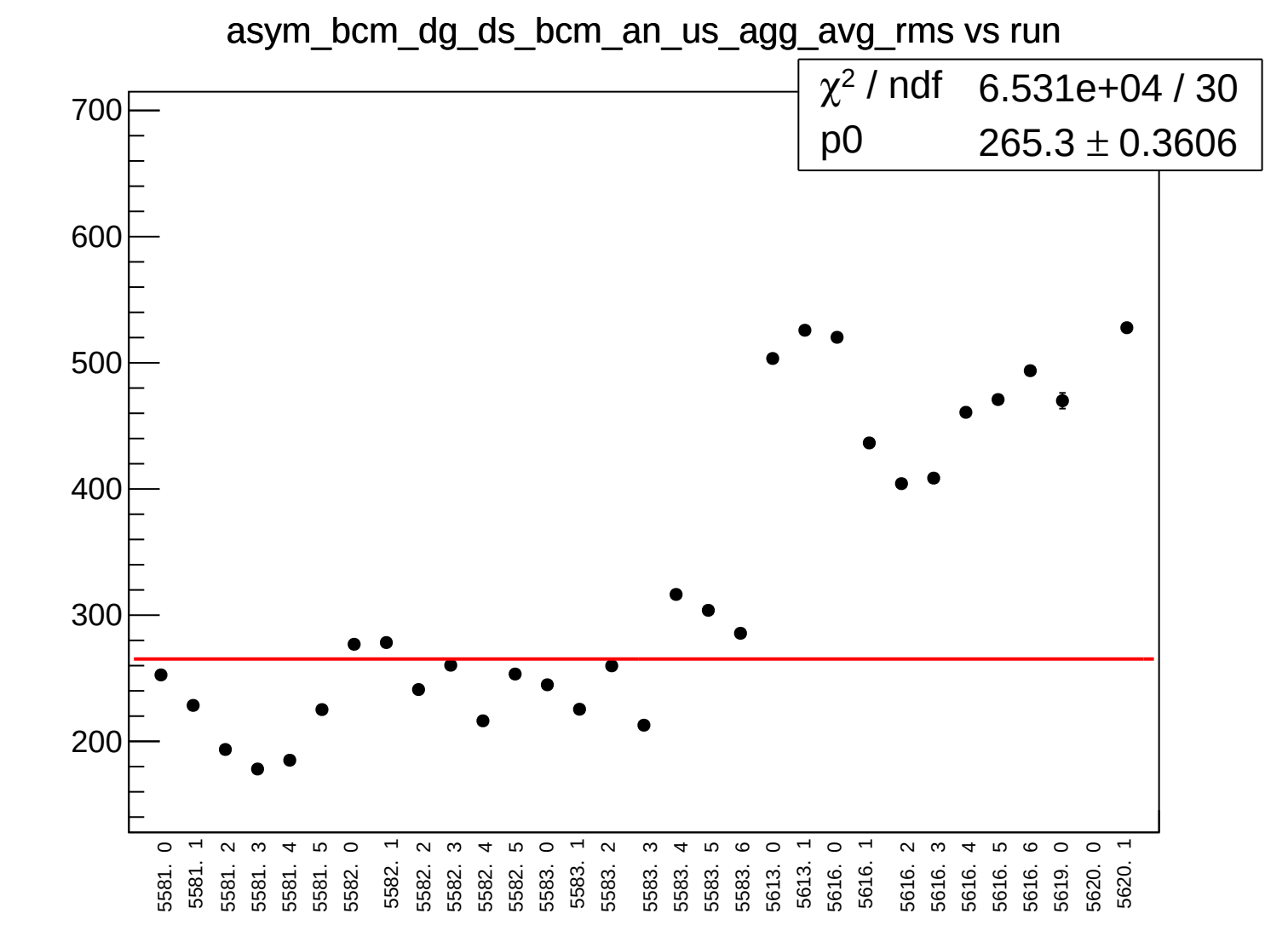

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6.651e+04 / 30
p0 264.8 ± 0.3604
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

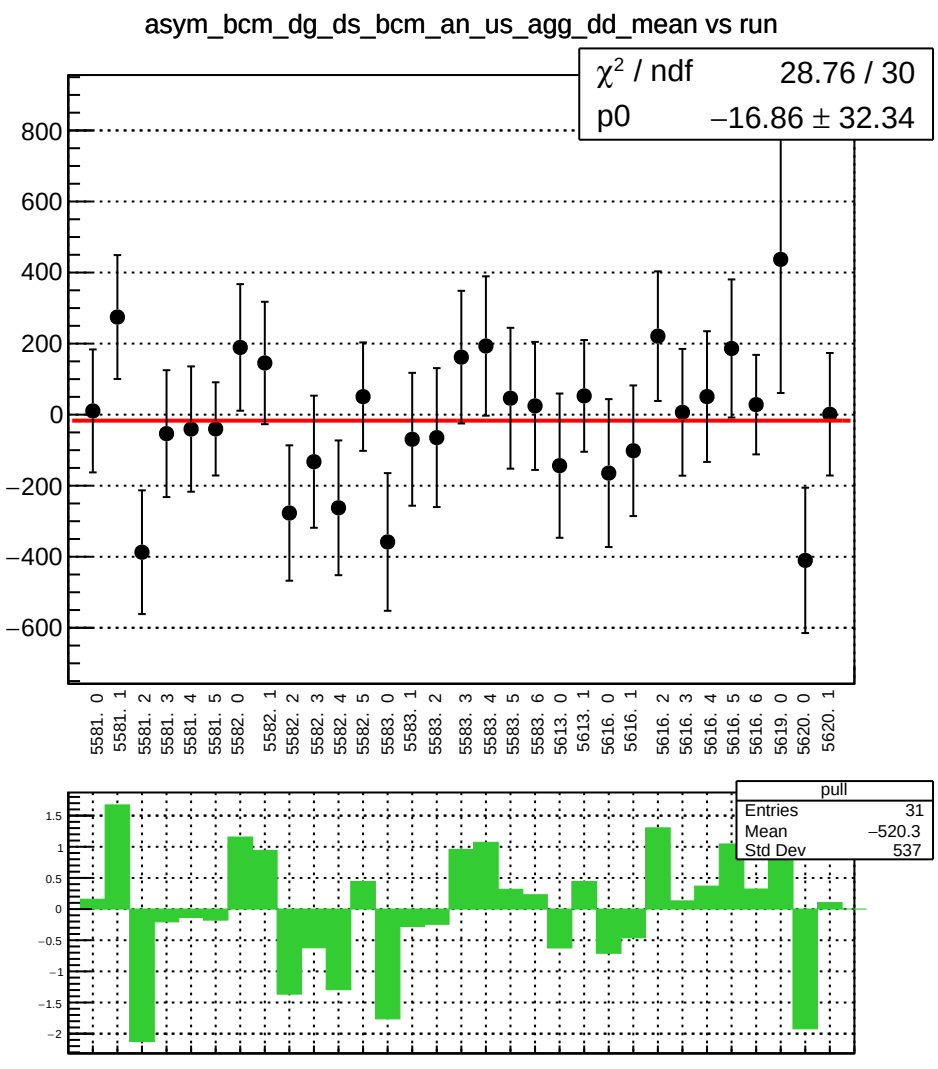

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 29.98 / 30
p0 −18.05 ± 41.36
800
600
400
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −107.2
Std Dev 130.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

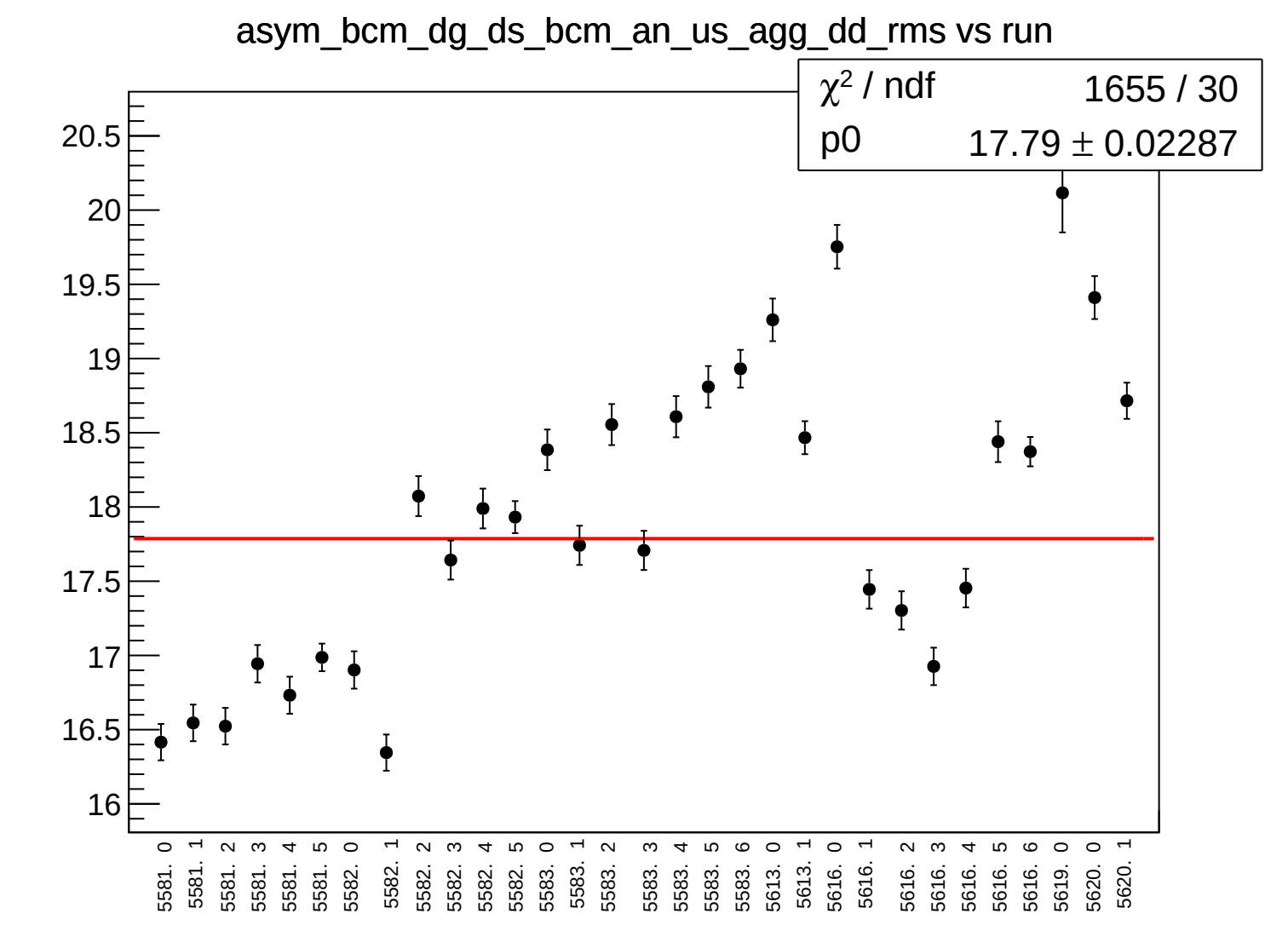

pull1D
Entries 31
Mean 0.00763
Std Dev 0.9834
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

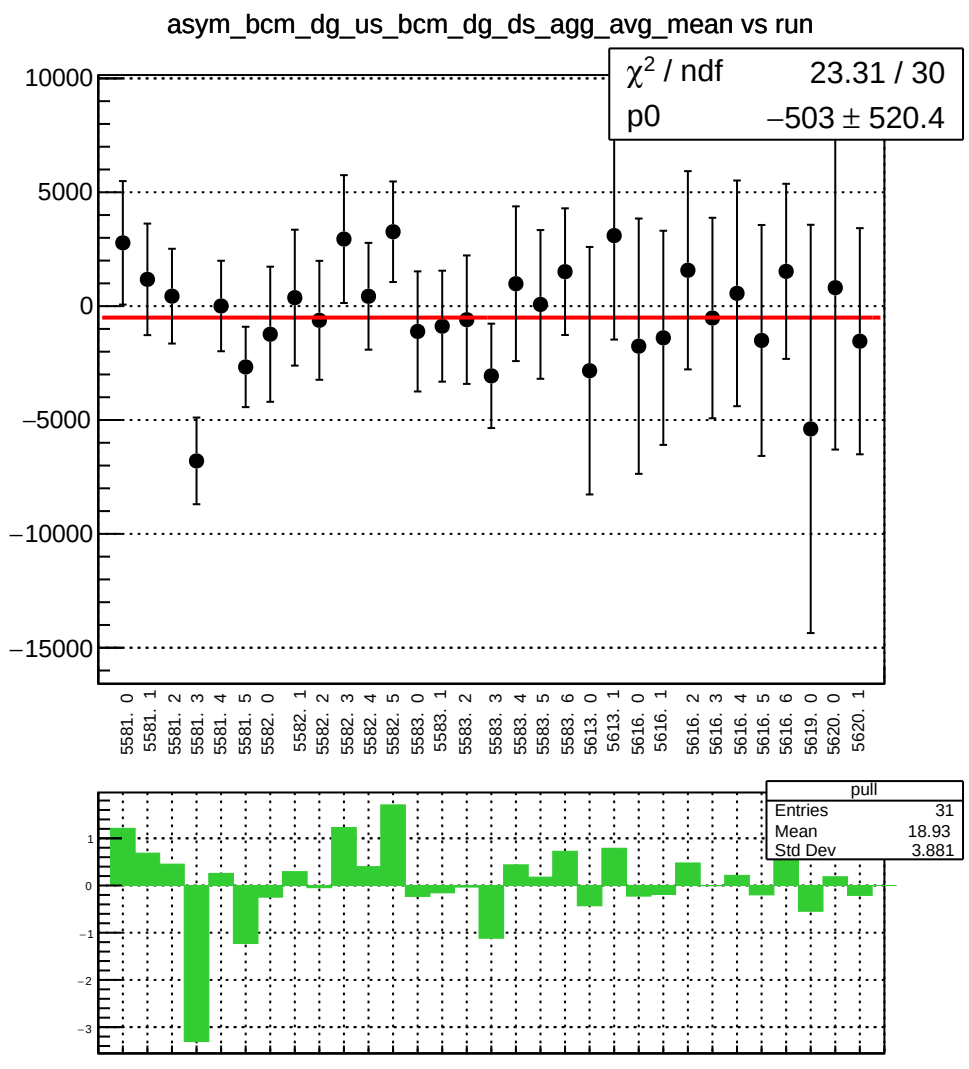

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3244 / 30
p0 22.72 ± 0.02925
29
28
27
26
25
24
23
22
21
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

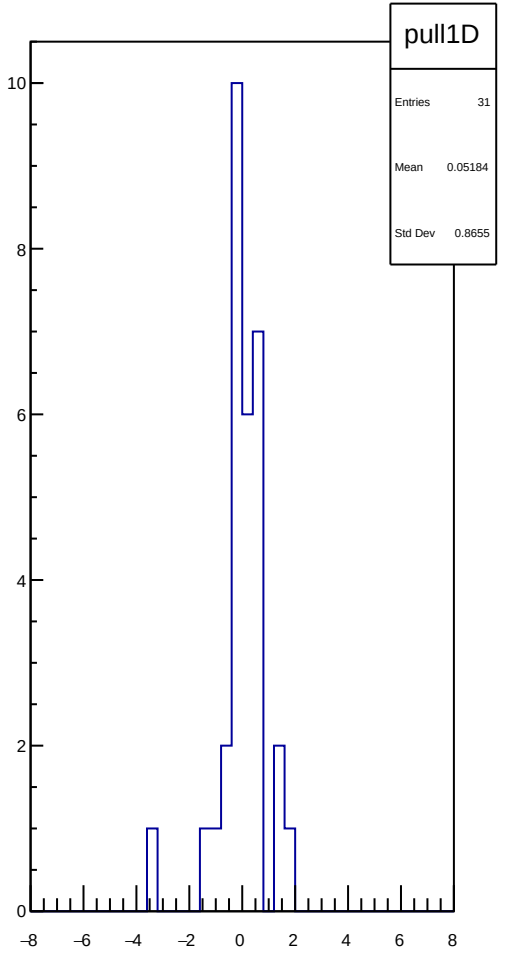

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.76 / 30
p0 −462.1 ± 509.9
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.54
Std Dev 2.759
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.0465
Std Dev 0.8366
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

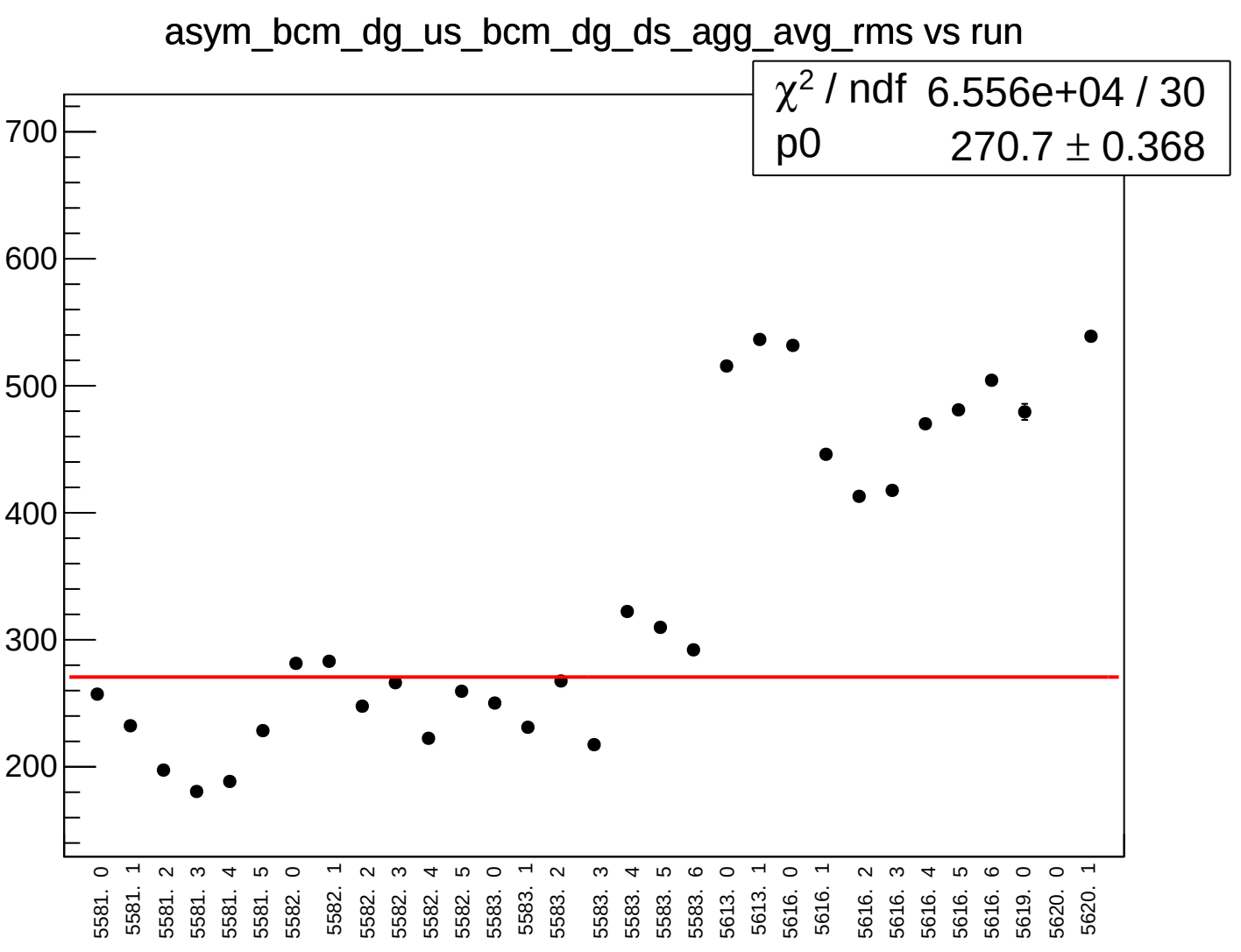

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6.531e+04 / 30
p0 265.3 ± 0.3606
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

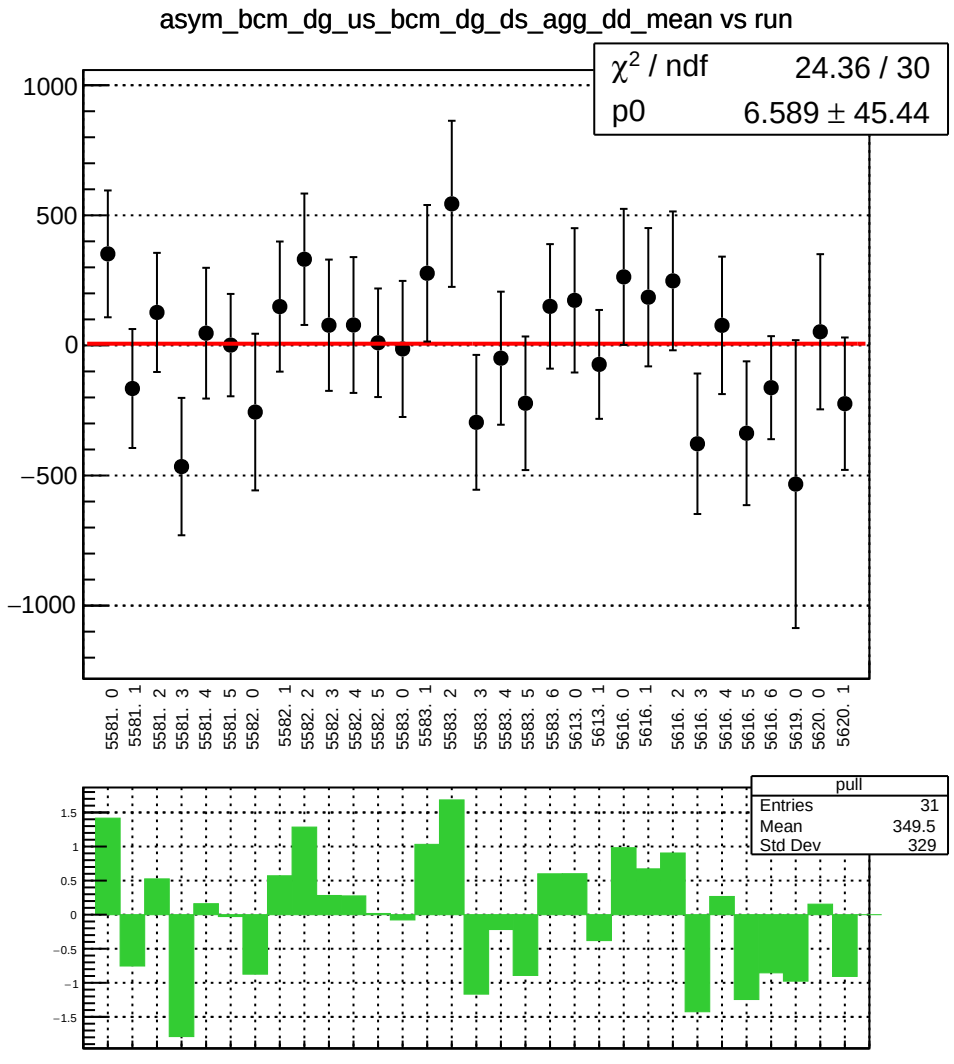

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 28.76 / 30
p0 −16.86 ± 32.34
800
600
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −520.3
Std Dev 537
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.001766
Std Dev 0.9631
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

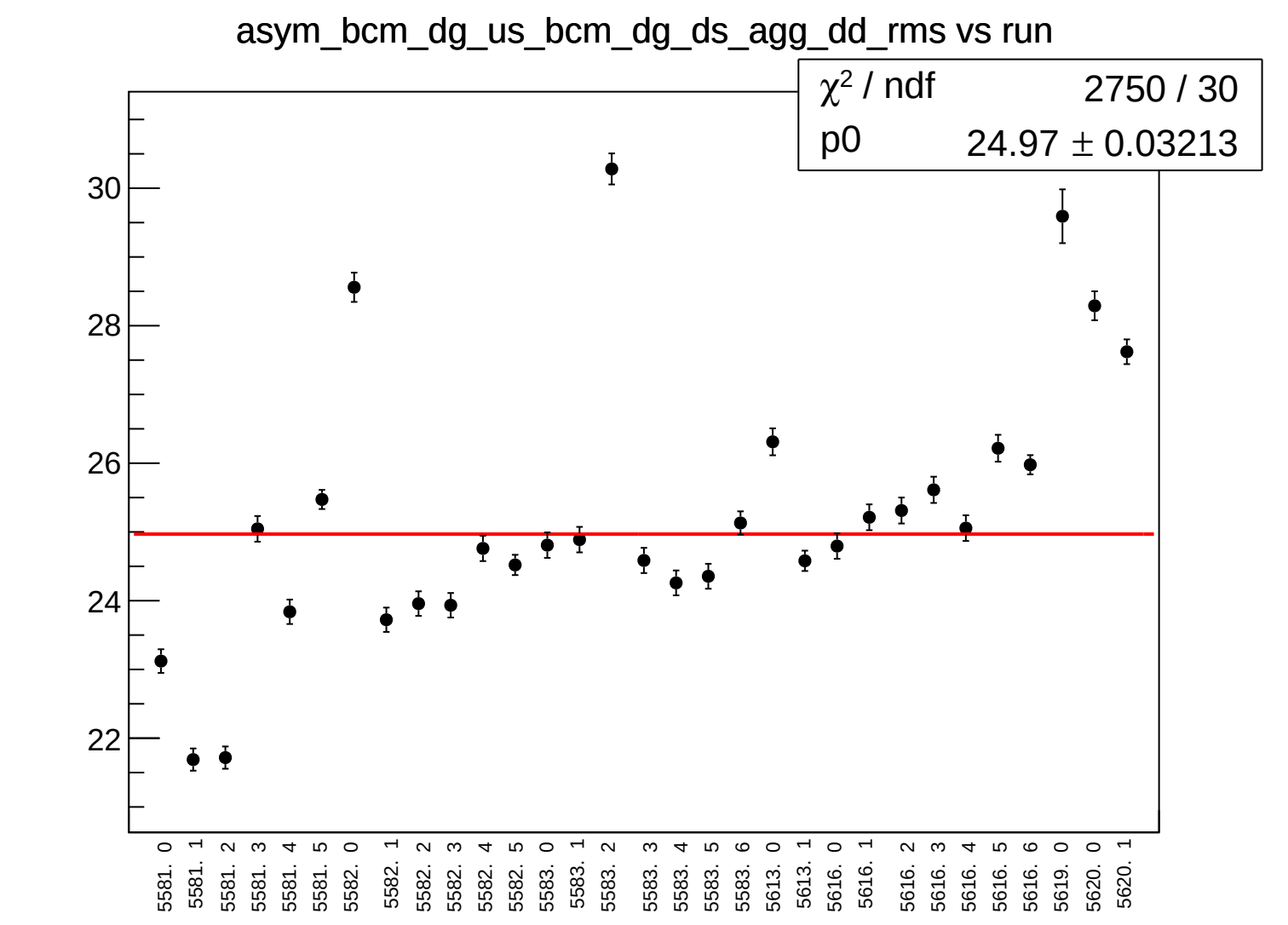

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1655 / 30
p0 17.79 ± 0.02287
20.5
20
19.5
19
18.5
18
17.5
17
16.5
16
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

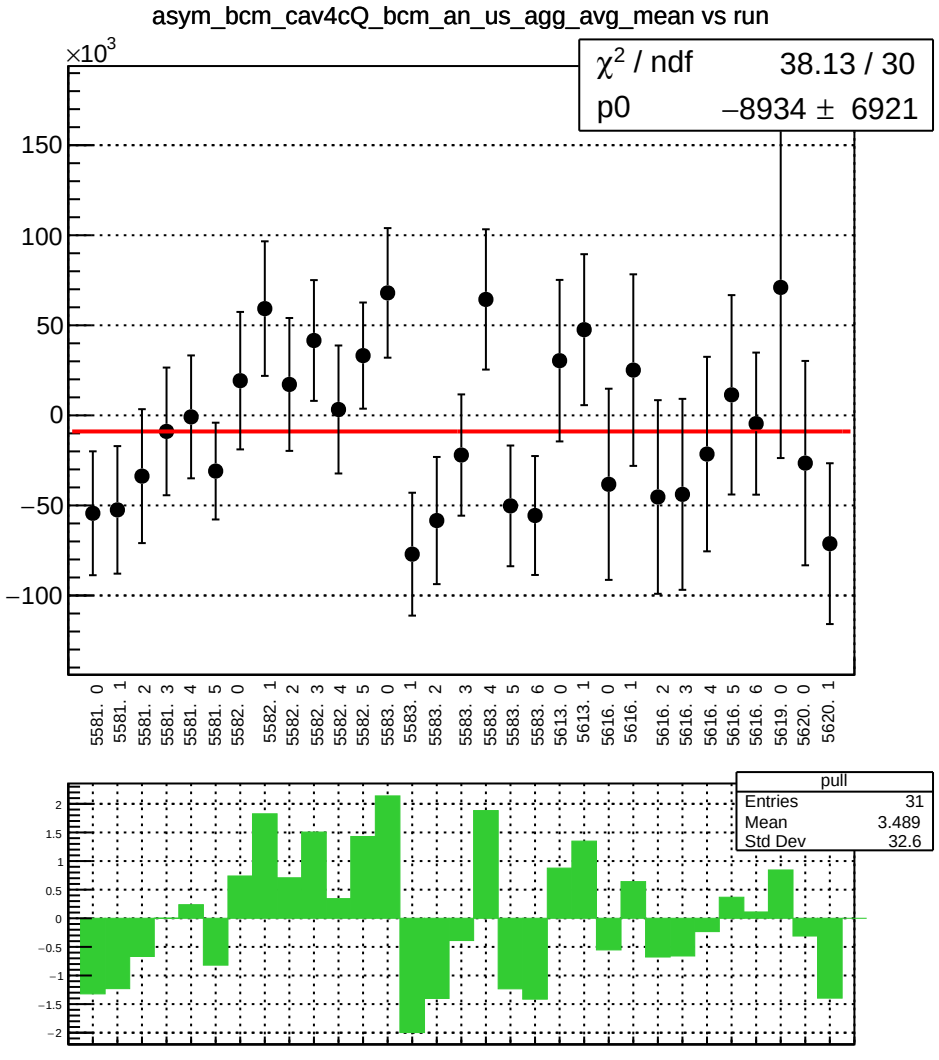

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 23.31 / 30
p0 −503 ± 520.4
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 18.93
Std Dev 3.881
1
0
−1
−2
−3

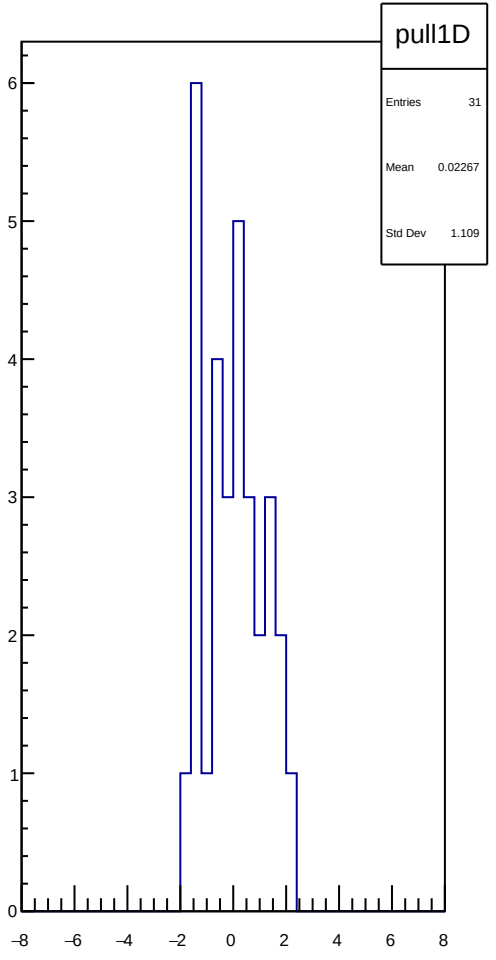

pull1D
Entries 31
Mean 0.05184
Std Dev 0.8655
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

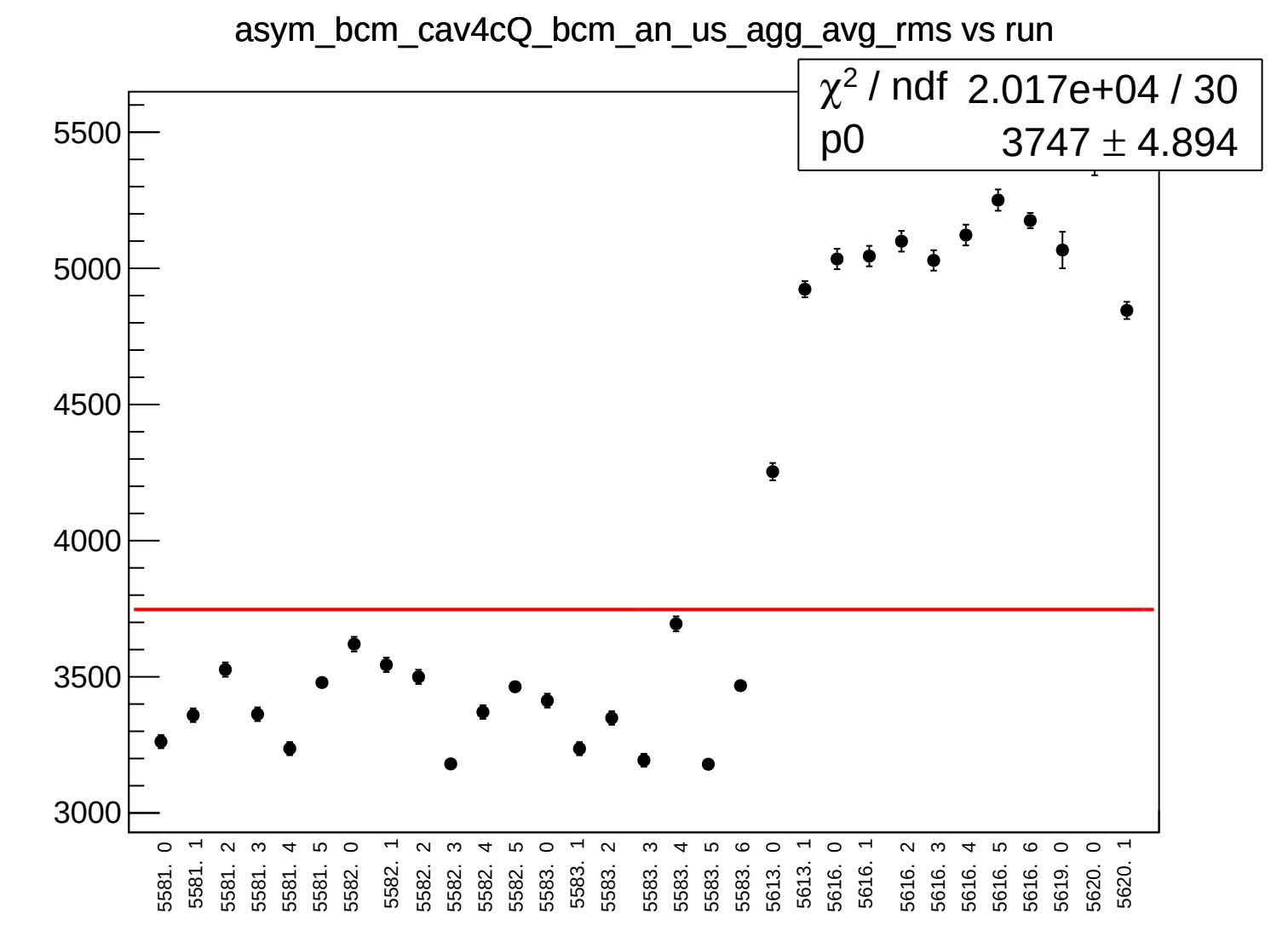

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6.556e+04 / 30
p0 270.7 ± 0.368
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

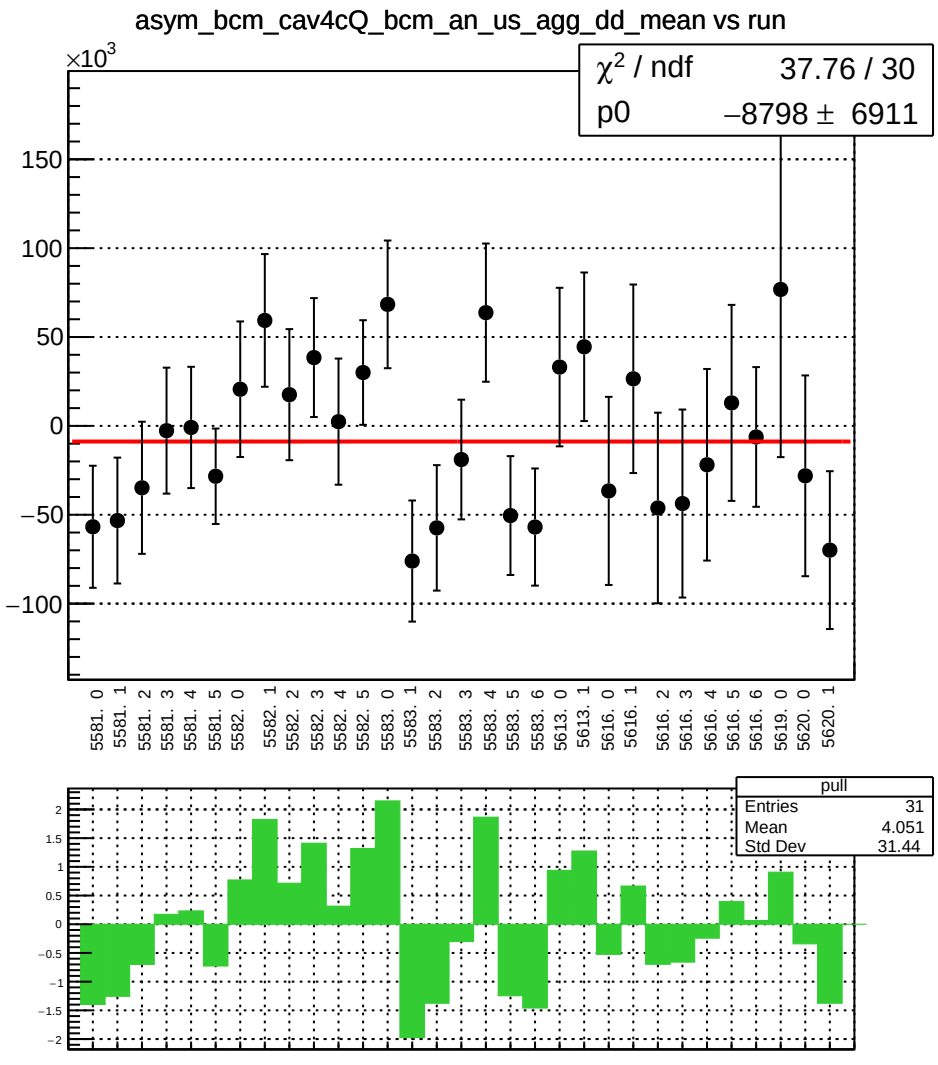

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 24.36 / 30
p0 6.589 ± 45.44
1000
500
0
−500
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 349.5
Std Dev 329
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.004826
Std Dev 0.8864
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

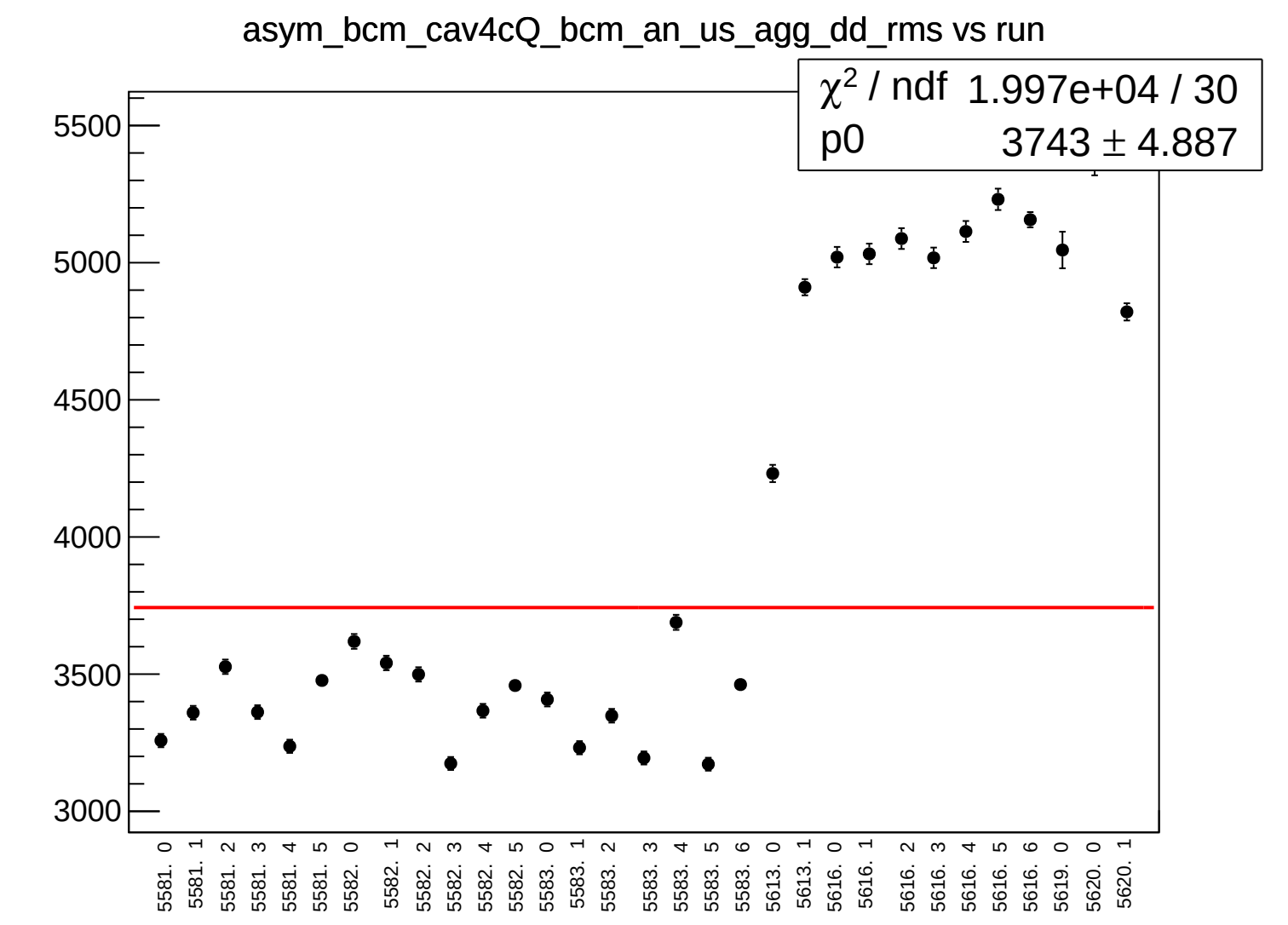

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2750 / 30
p0 24.97 ± 0.03213
30
28
26
24
22
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

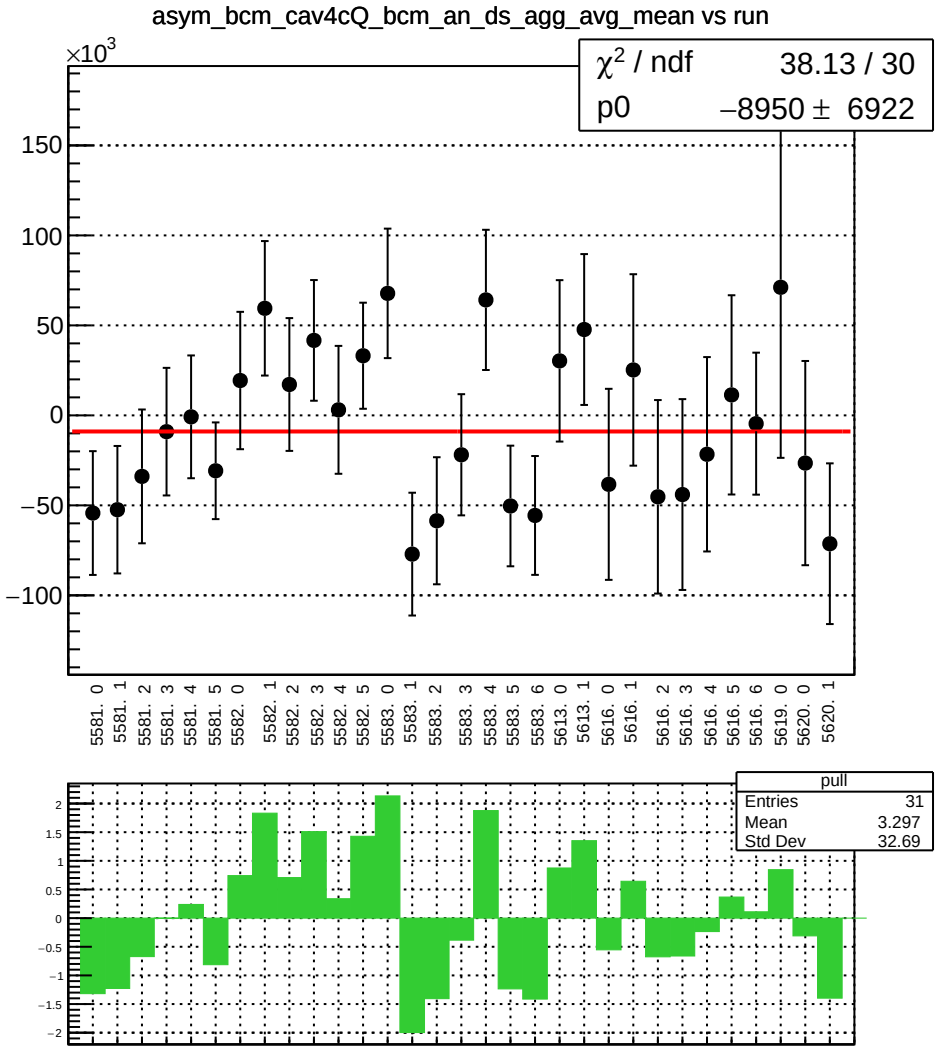

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
×10^3
χ² / ndf 38.13 / 30
p0 −8934 ± 6921
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 3.489
Std Dev 32.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

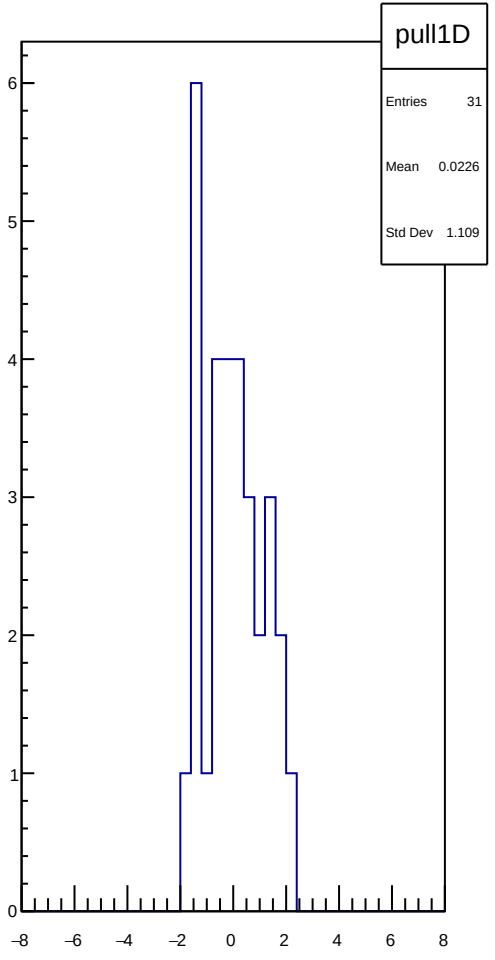

pull1D
Entries 31
Mean 0.02267
Std Dev 1.109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

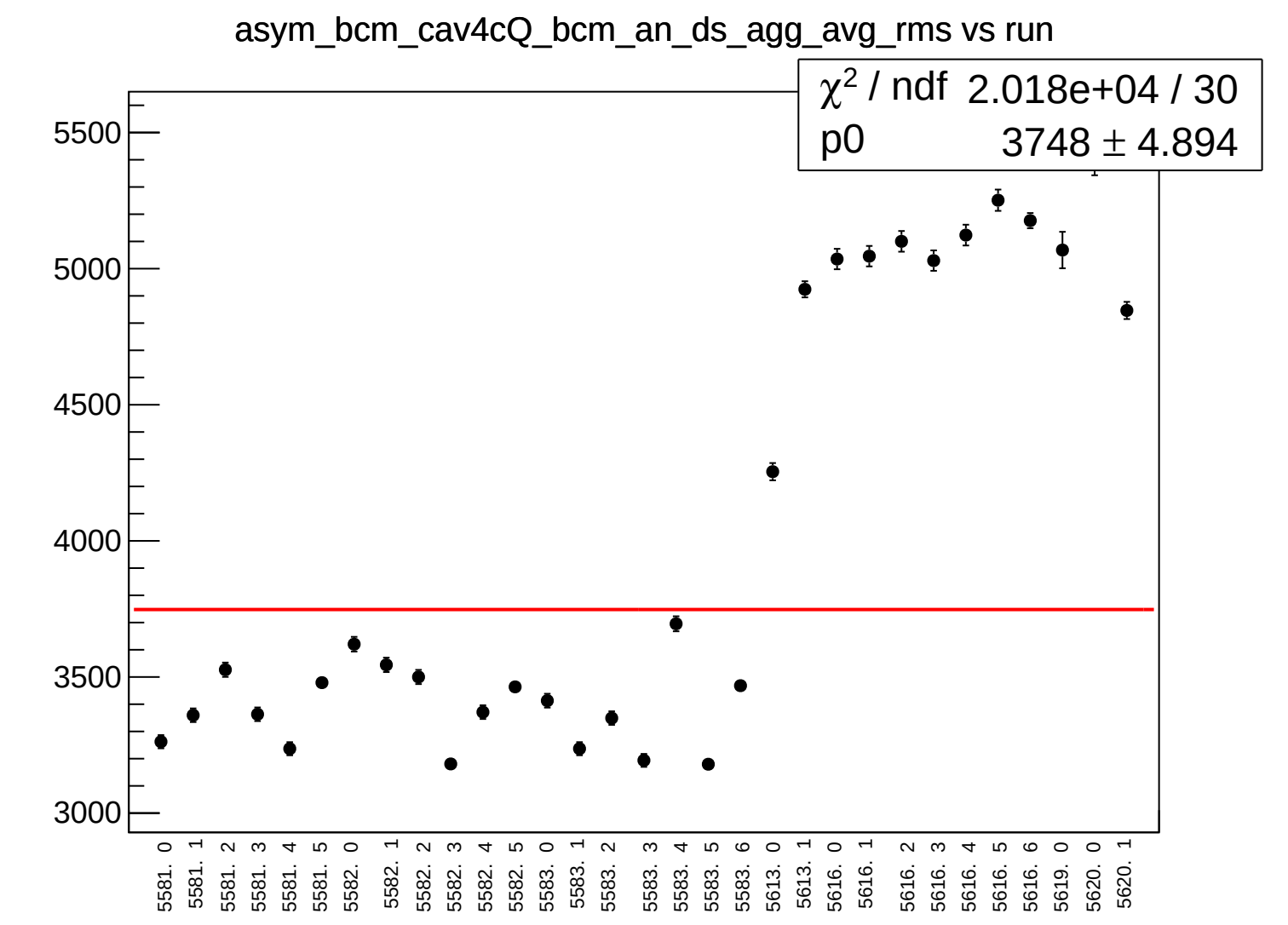

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.017e+04 / 30
p0 3747 ± 4.894
5500
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

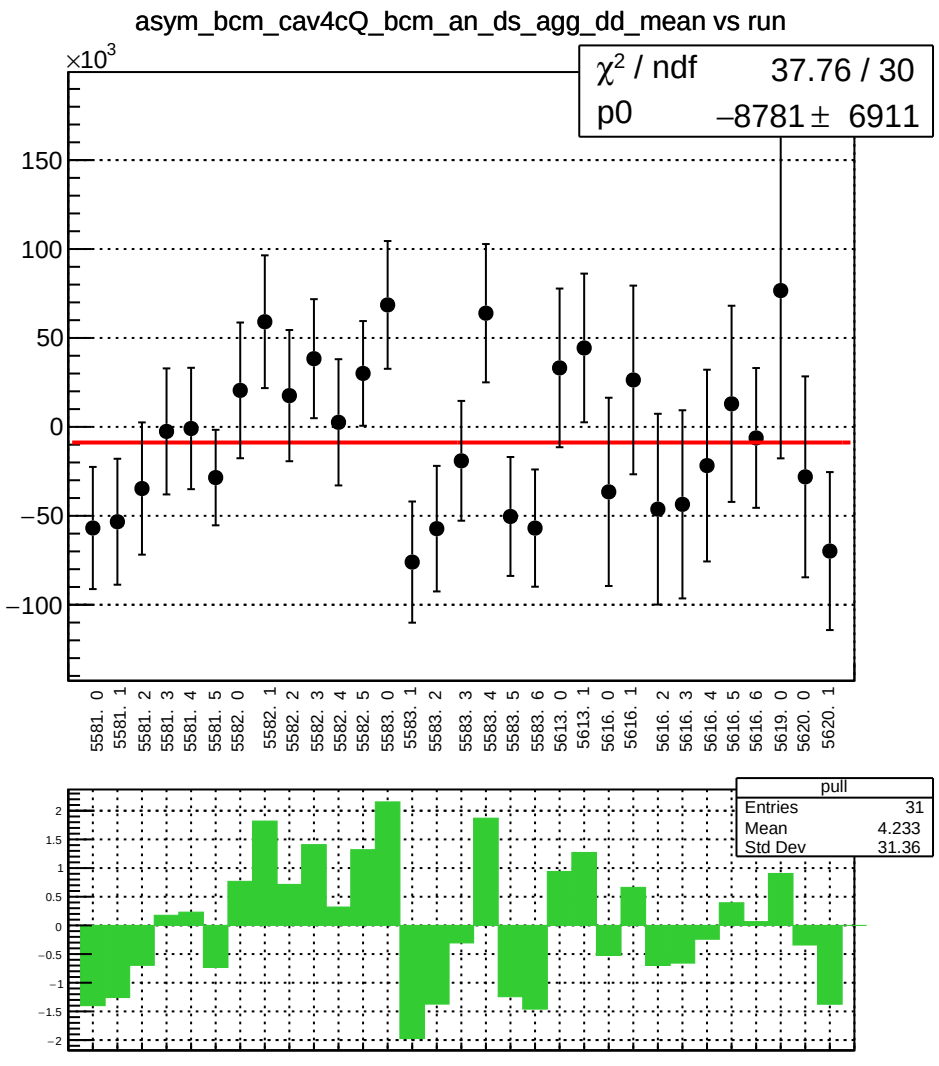

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
×10^3
χ^2 / ndf 37.76 / 30
p0 −8798 ± 6911
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 4.051
Std Dev 31.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.02401
Std Dev 1.103
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

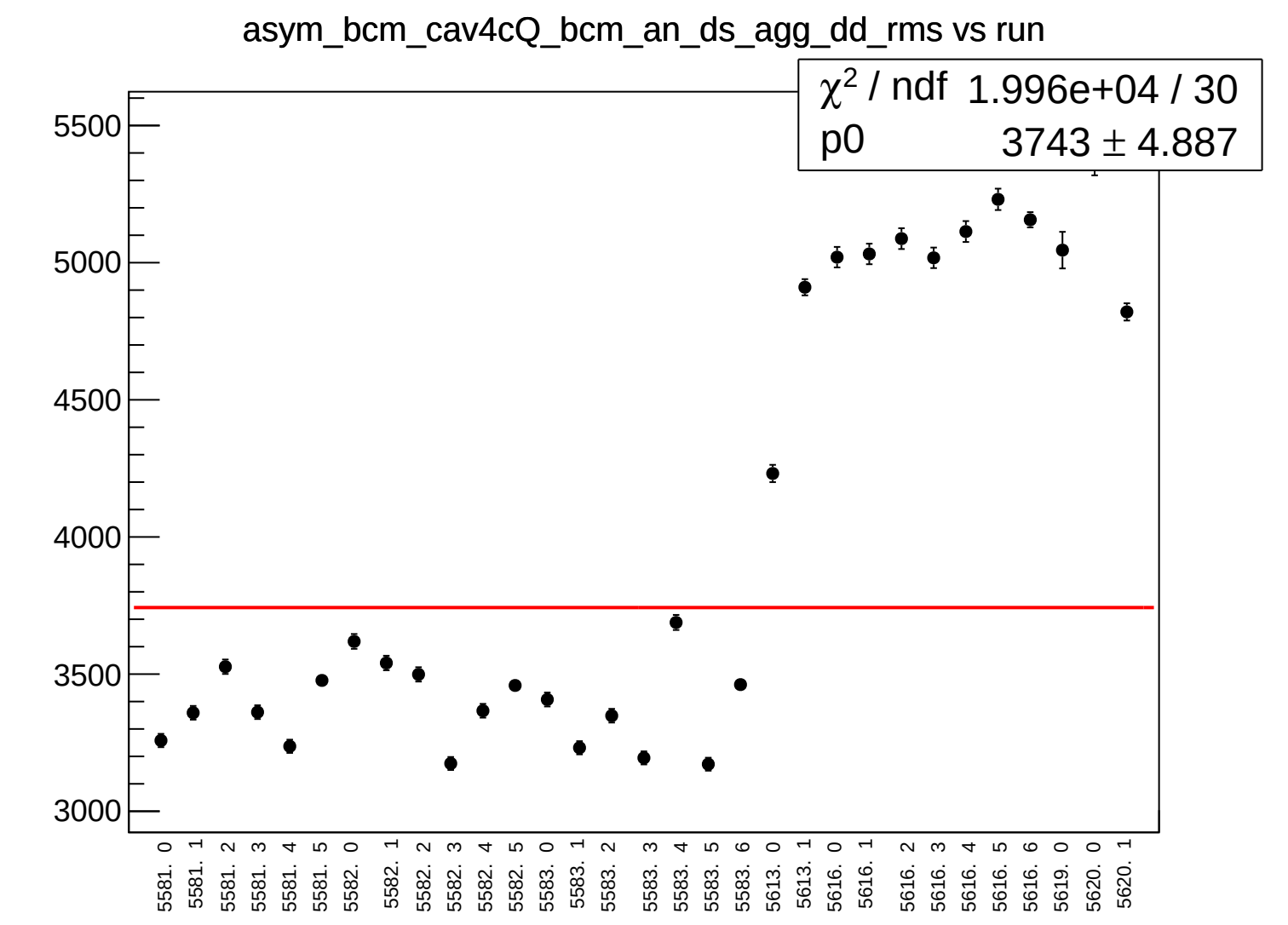

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.997e+04 / 30
p0 3743 ± 4.887
5500
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

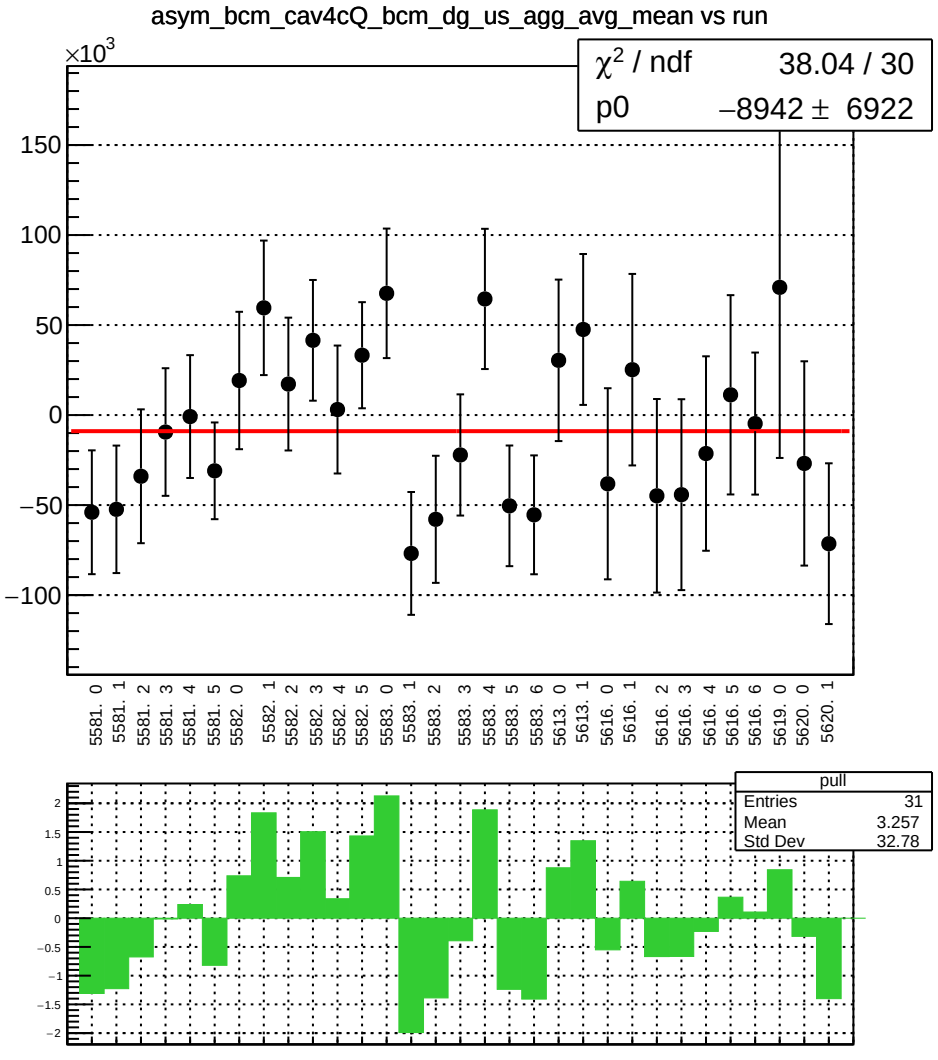

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
×10^3
χ² / ndf 38.13 / 30
p0 −8950 ± 6922
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 3.297
Std Dev 32.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

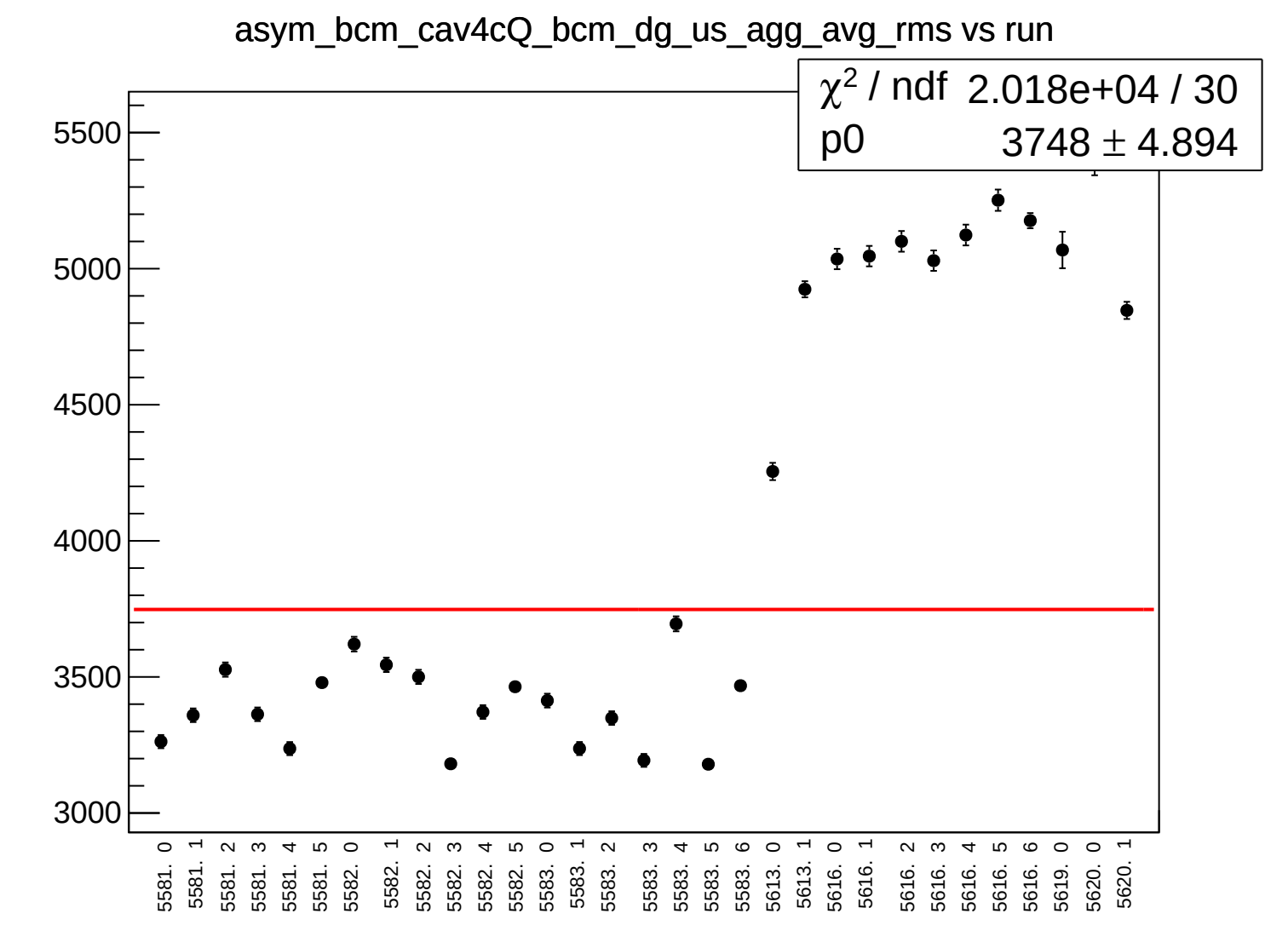

pull1D
Entries 31
Mean 0.0226
Std Dev 1.109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

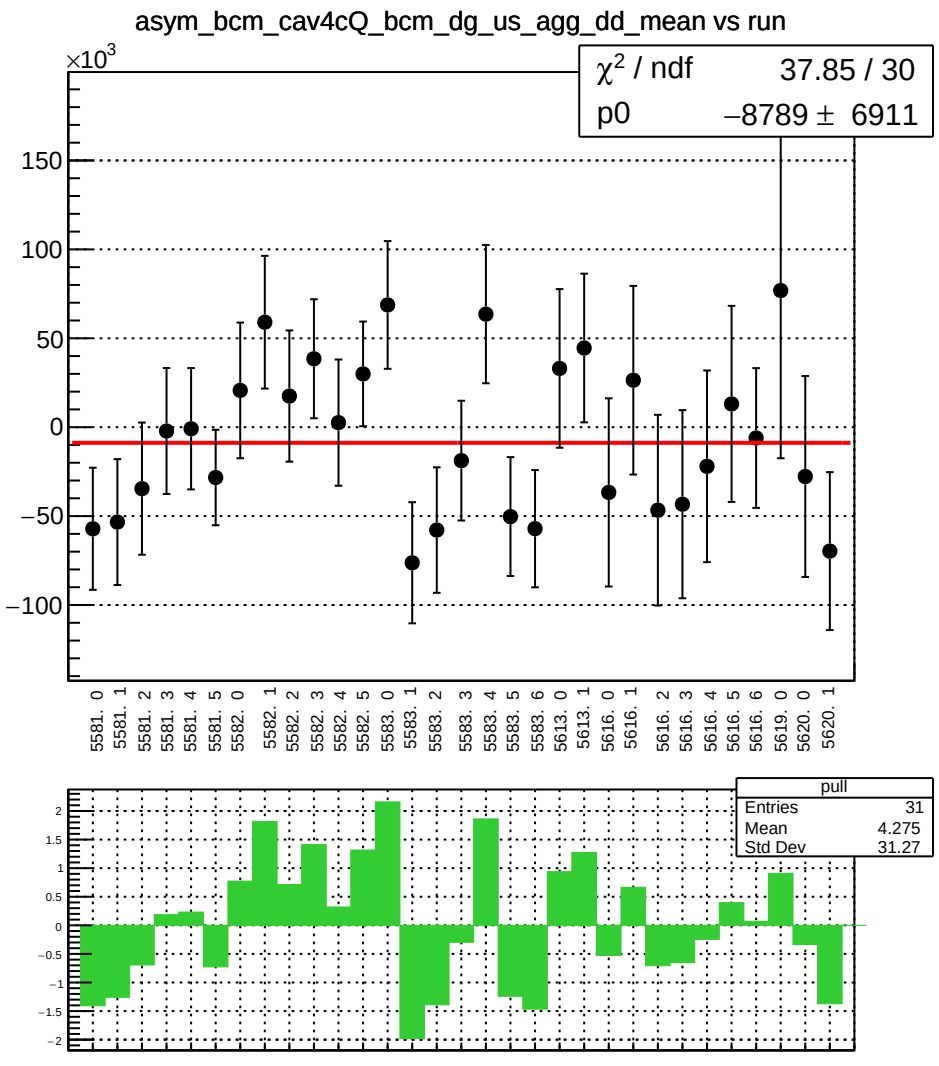

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.018e+04 / 30
p0 3748 ± 4.894
5500
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

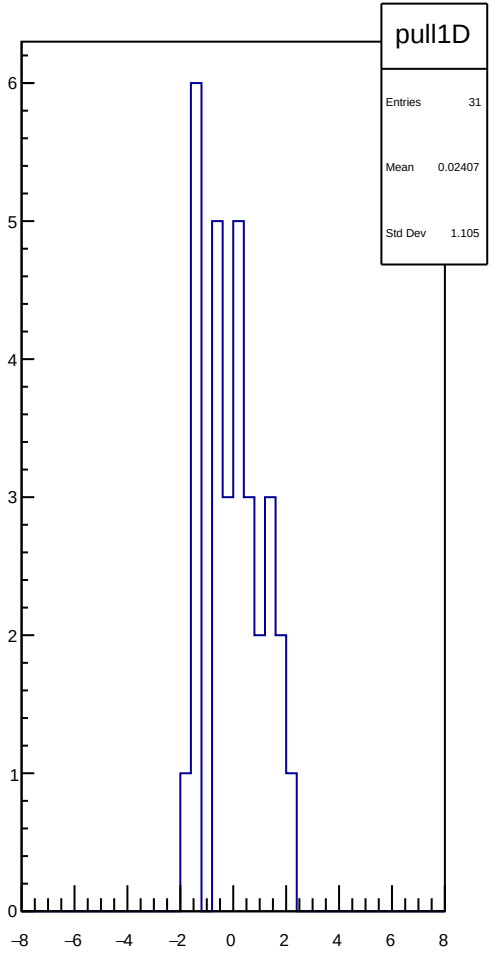

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
×10^3
χ² / ndf 37.76 / 30
p0 −8781 ± 6911
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 4.233
Std Dev 31.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.02407
Std Dev 1.103
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

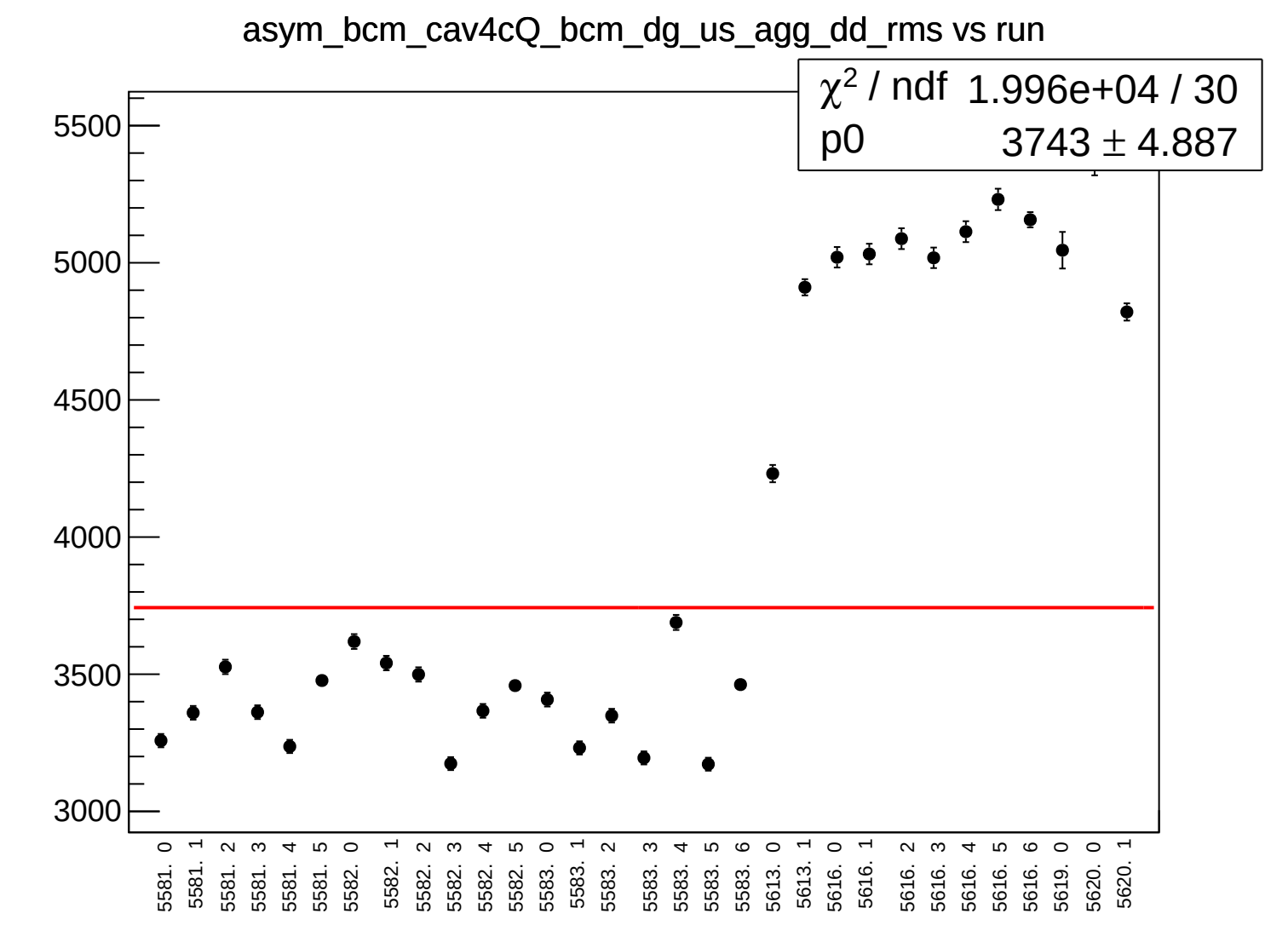

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.996e+04 / 30
p0 3743 ± 4.887
5500
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

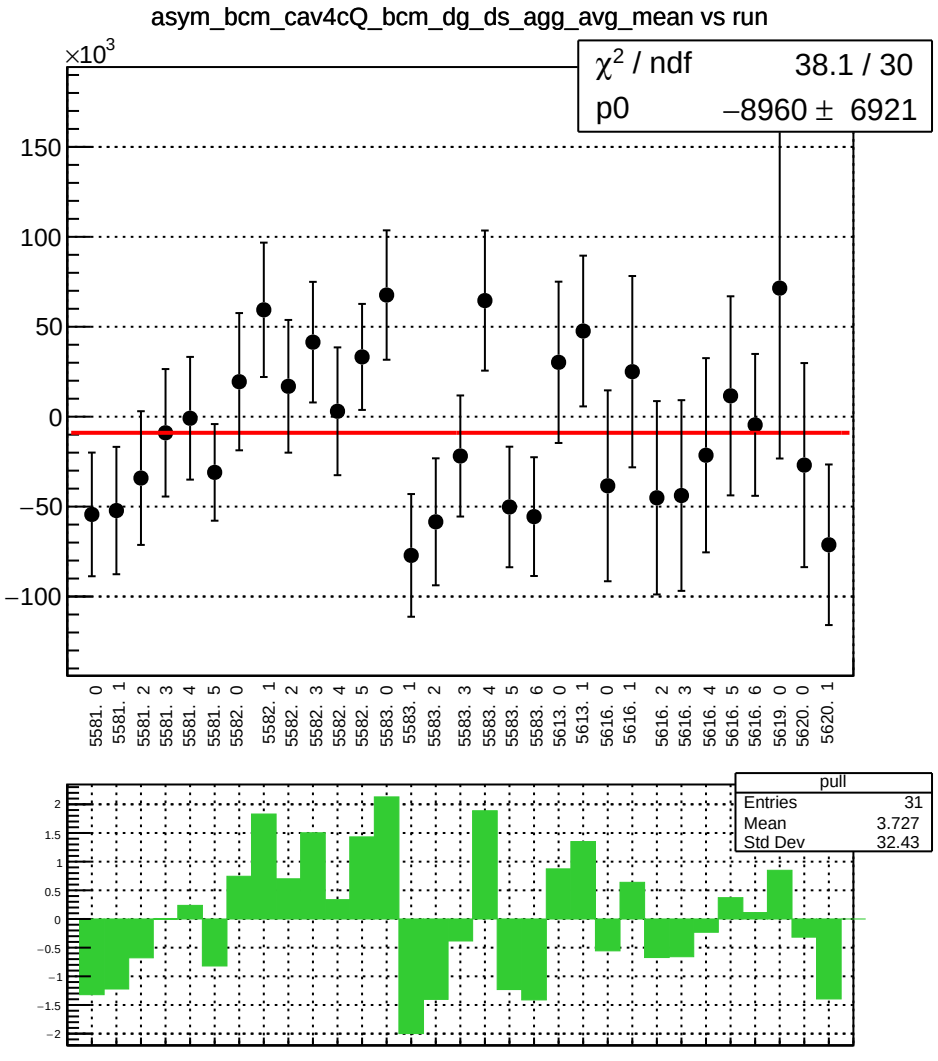

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
×10^3
χ² / ndf 38.04 / 30
p0 −8942 ± 6922
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 3.257
Std Dev 32.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.0226
Std Dev 1.107
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

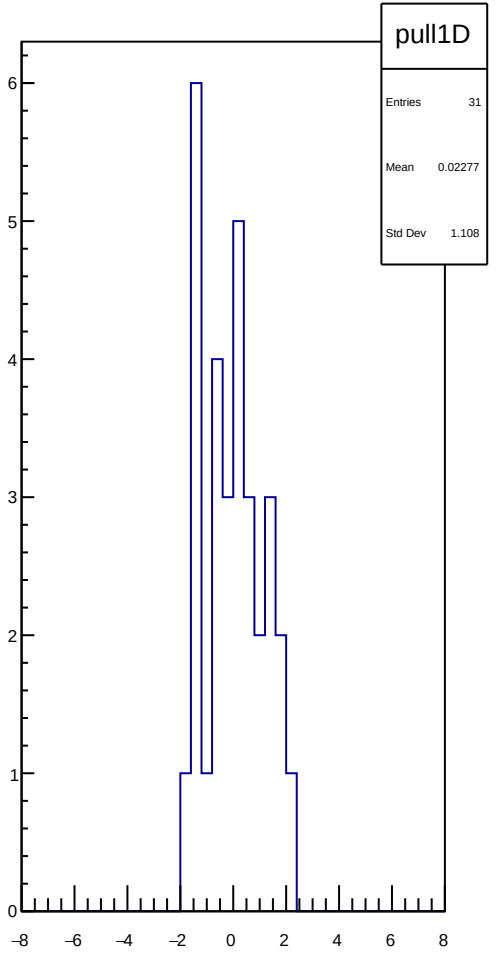

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.018e+04 / 30
p0 3748 ± 4.894
5500
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

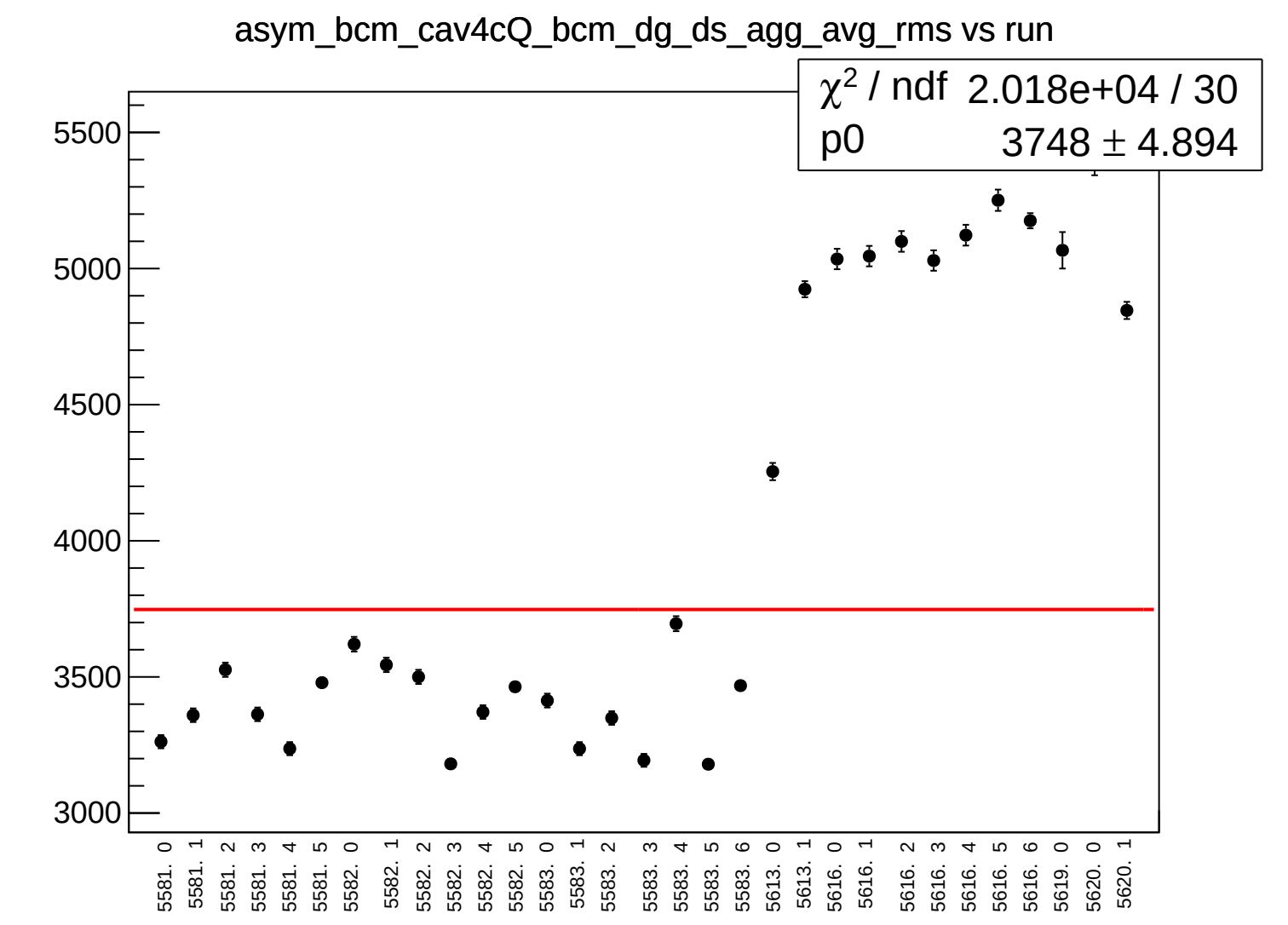

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
×10^3
χ^2 / ndf 37.85 / 30
p0 −8789 ± 6911
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 4.275
Std Dev 31.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

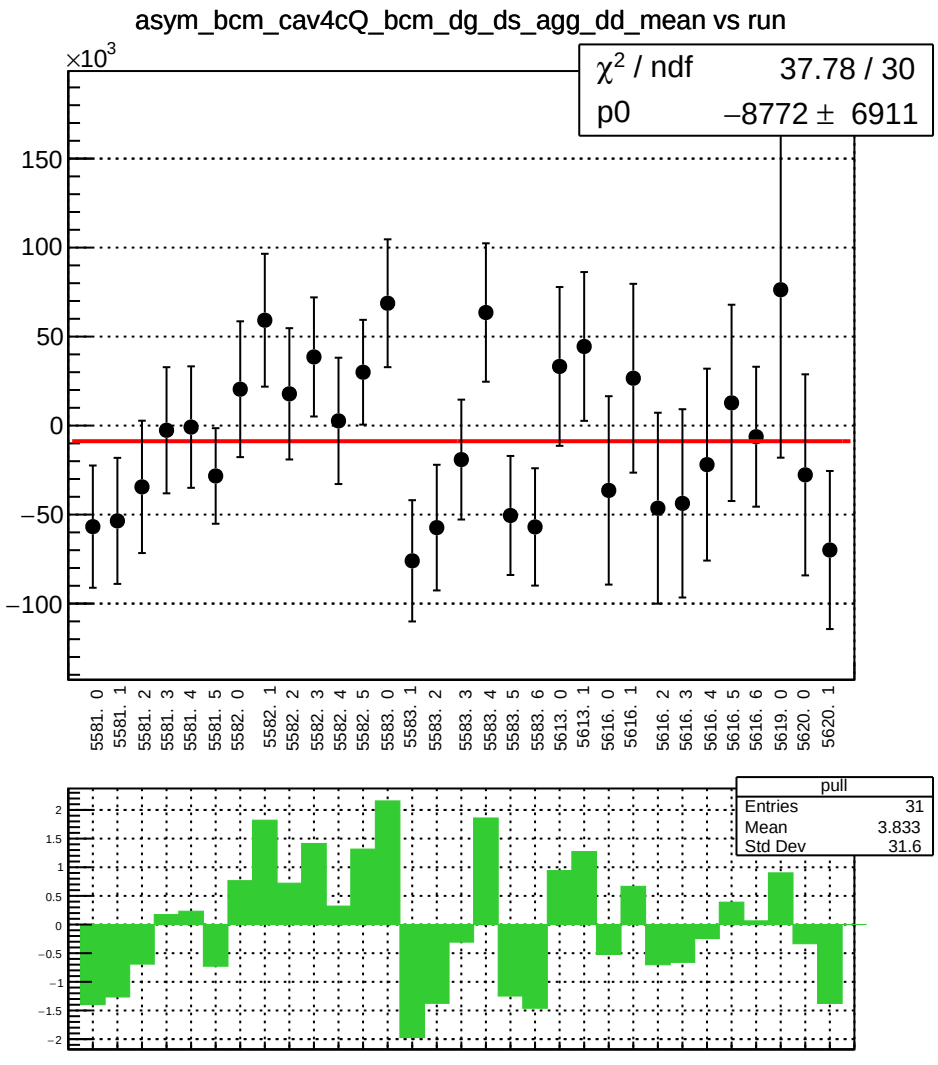

pull1D
Entries 31
Mean 0.02407
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

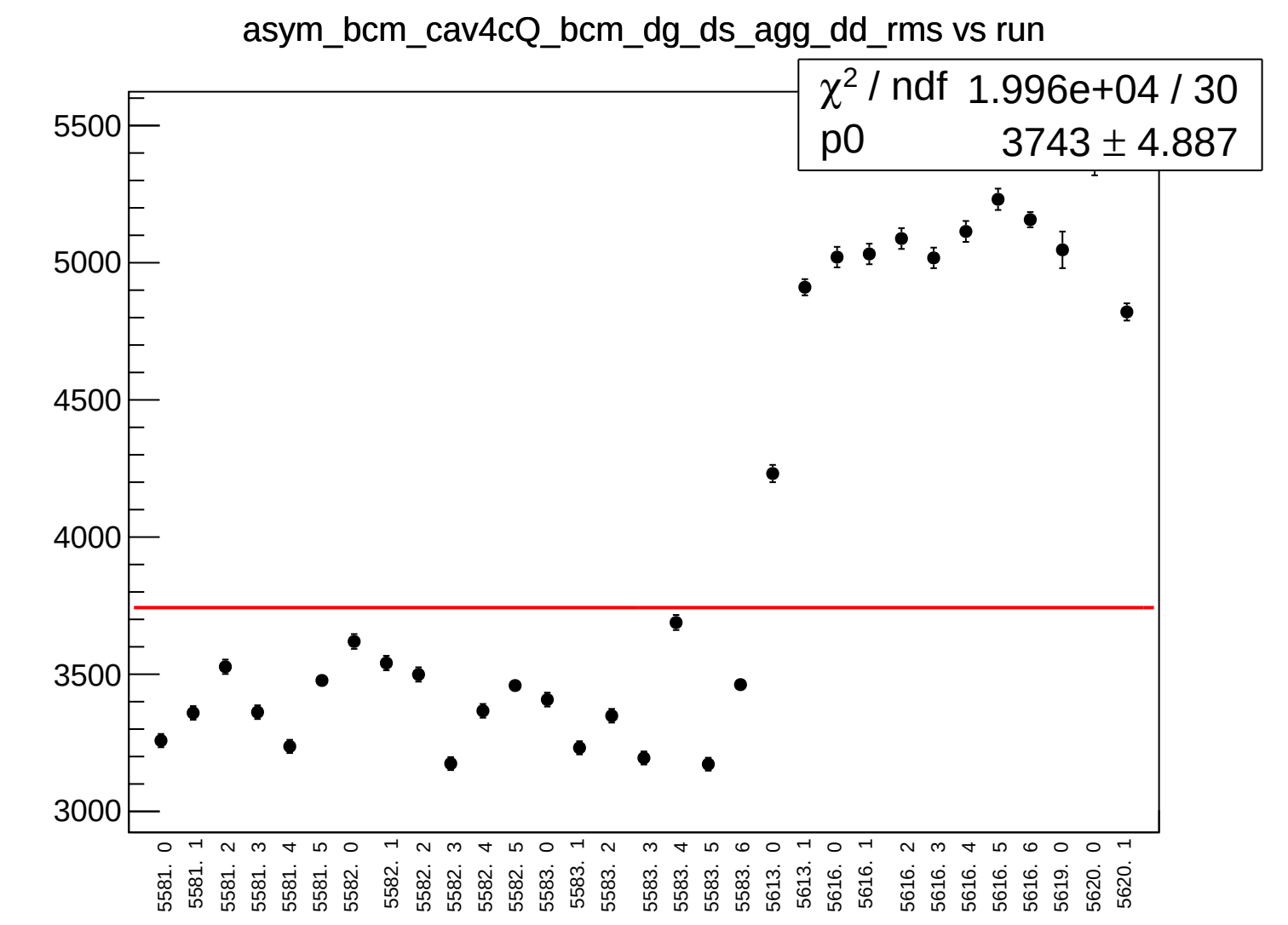

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1.996e+04 / 30
p0 3743 ± 4.887
5500
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

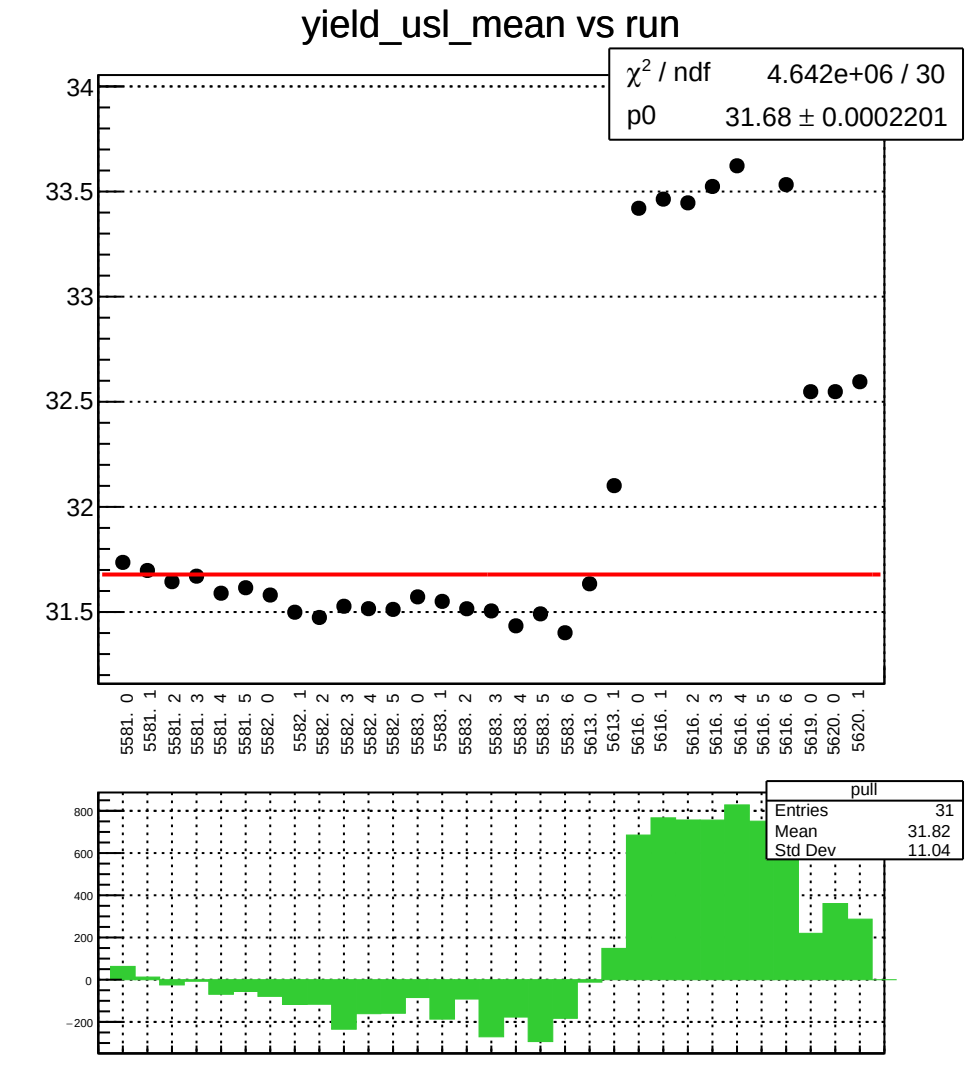

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
×10^3
χ² / ndf 38.1 / 30
p0 −8960 ± 6921
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 3.727
Std Dev 32.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

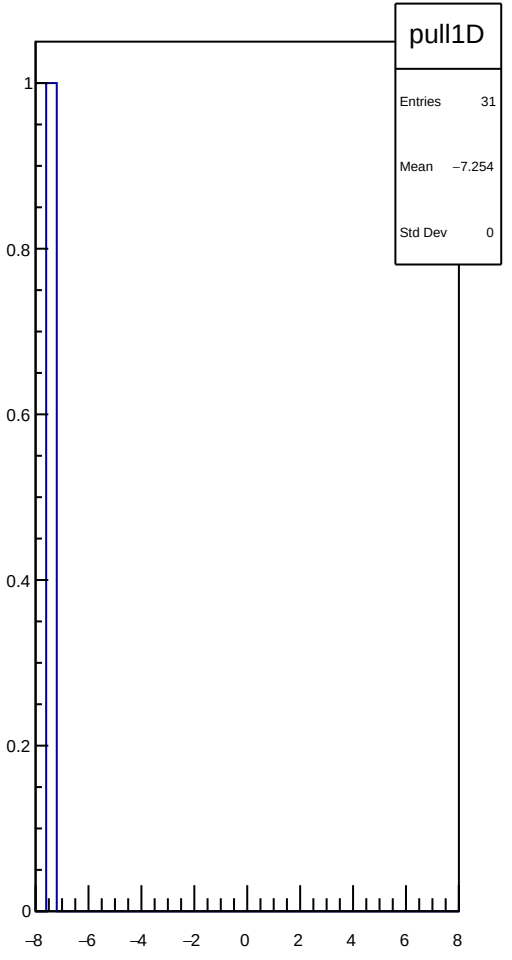

pull1D
Entries 31
Mean 0.02277
Std Dev 1.108
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

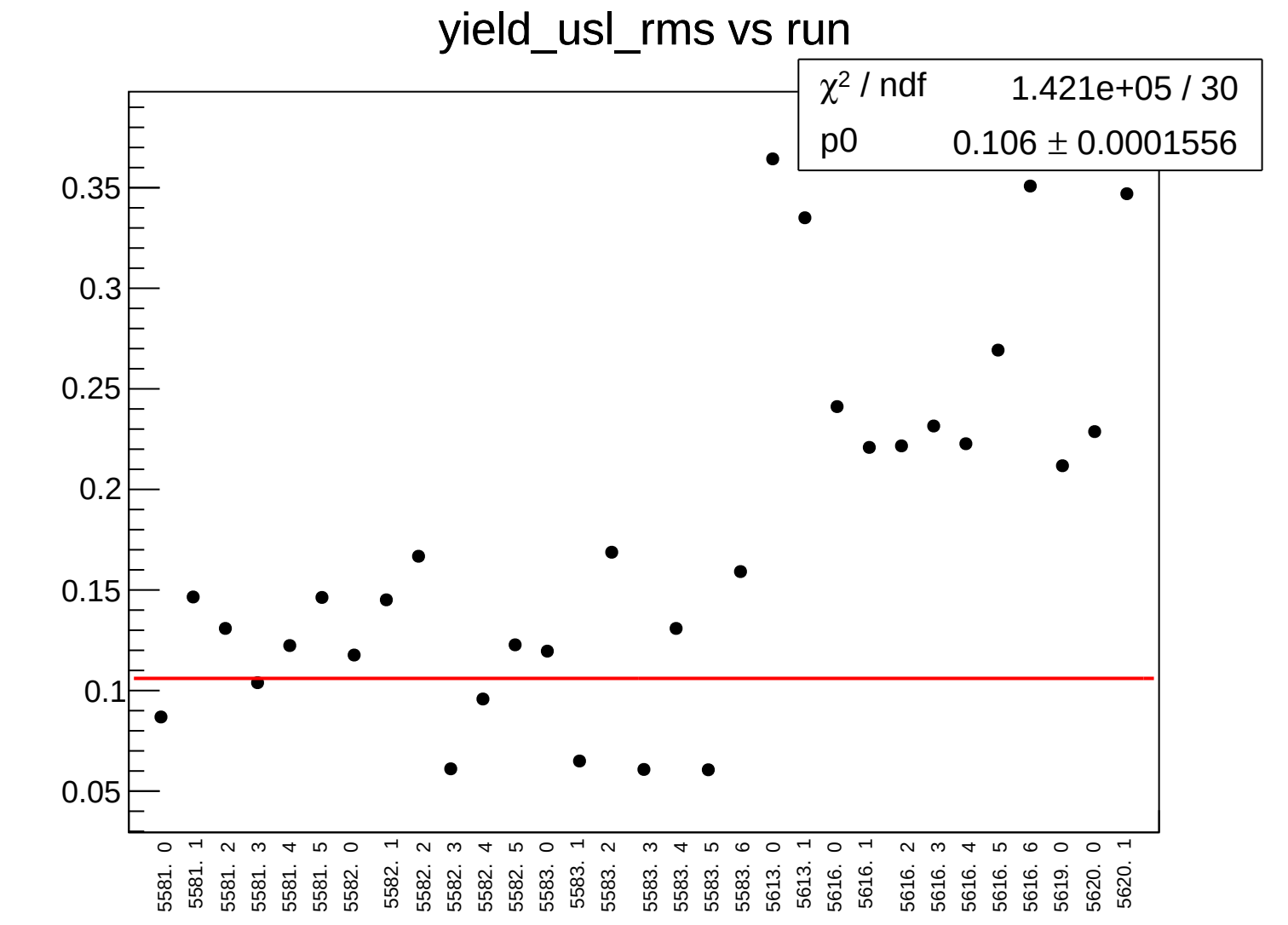

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.018e+04 / 30
p0 3748 ± 4.894
5500
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

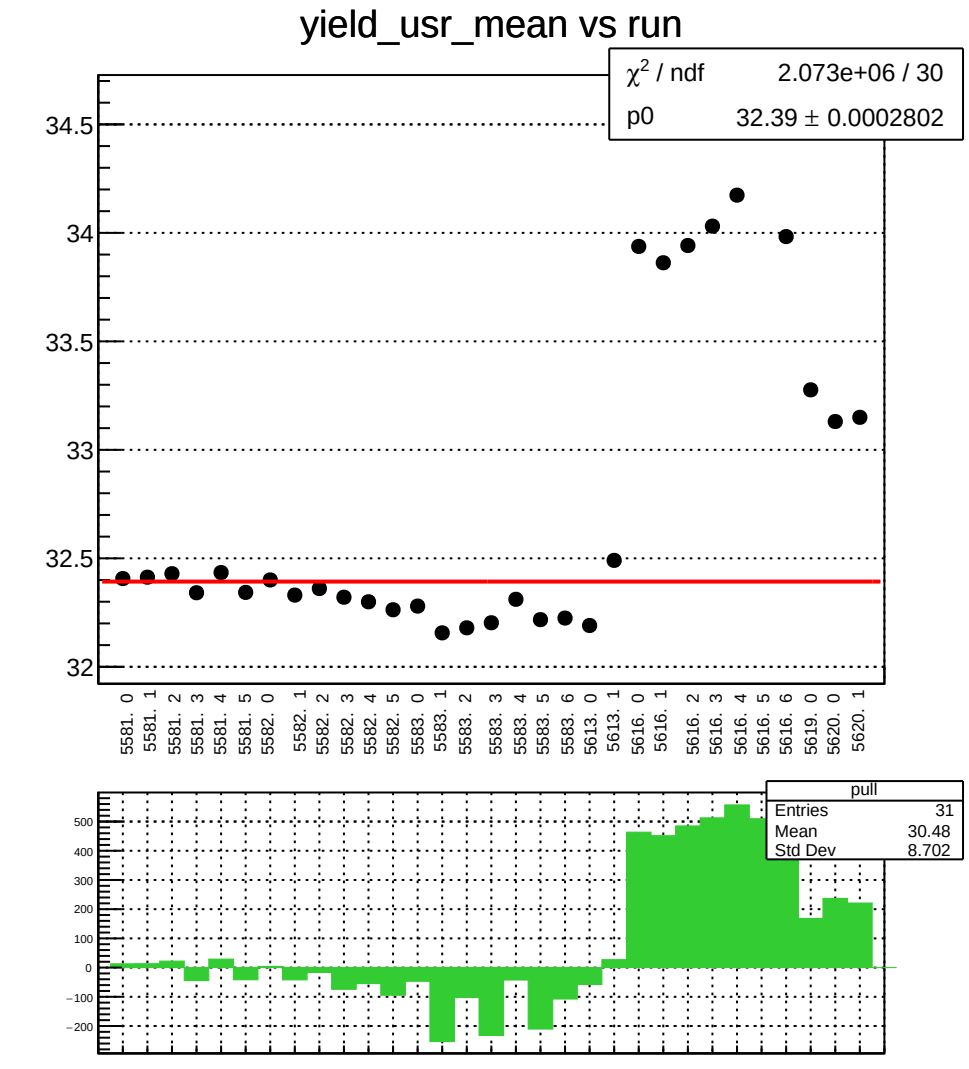

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
×10^3
χ² / ndf 37.78 / 30
p0 −8772 ± 6911
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 3.833
Std Dev 31.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.02391
Std Dev 1.104
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

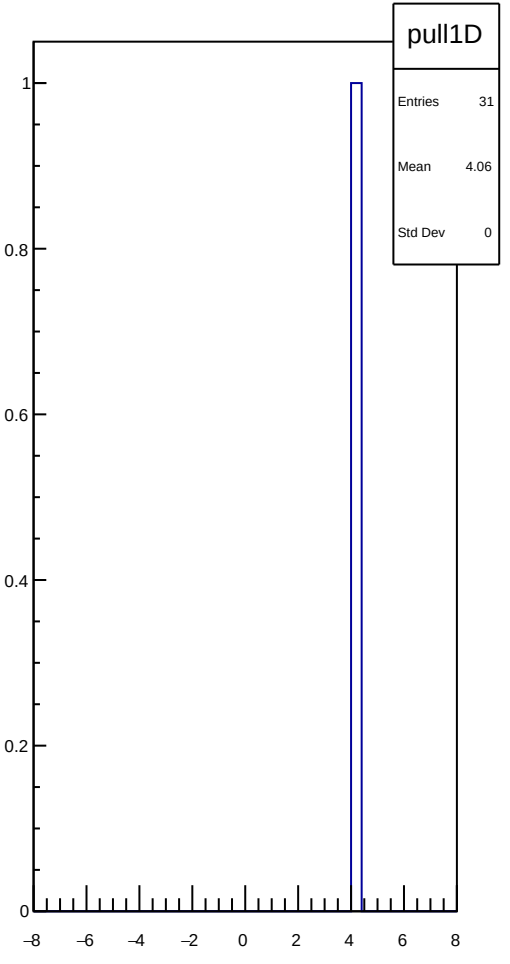

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.996e+04 / 30
p0 3743 ± 4.887
5500
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

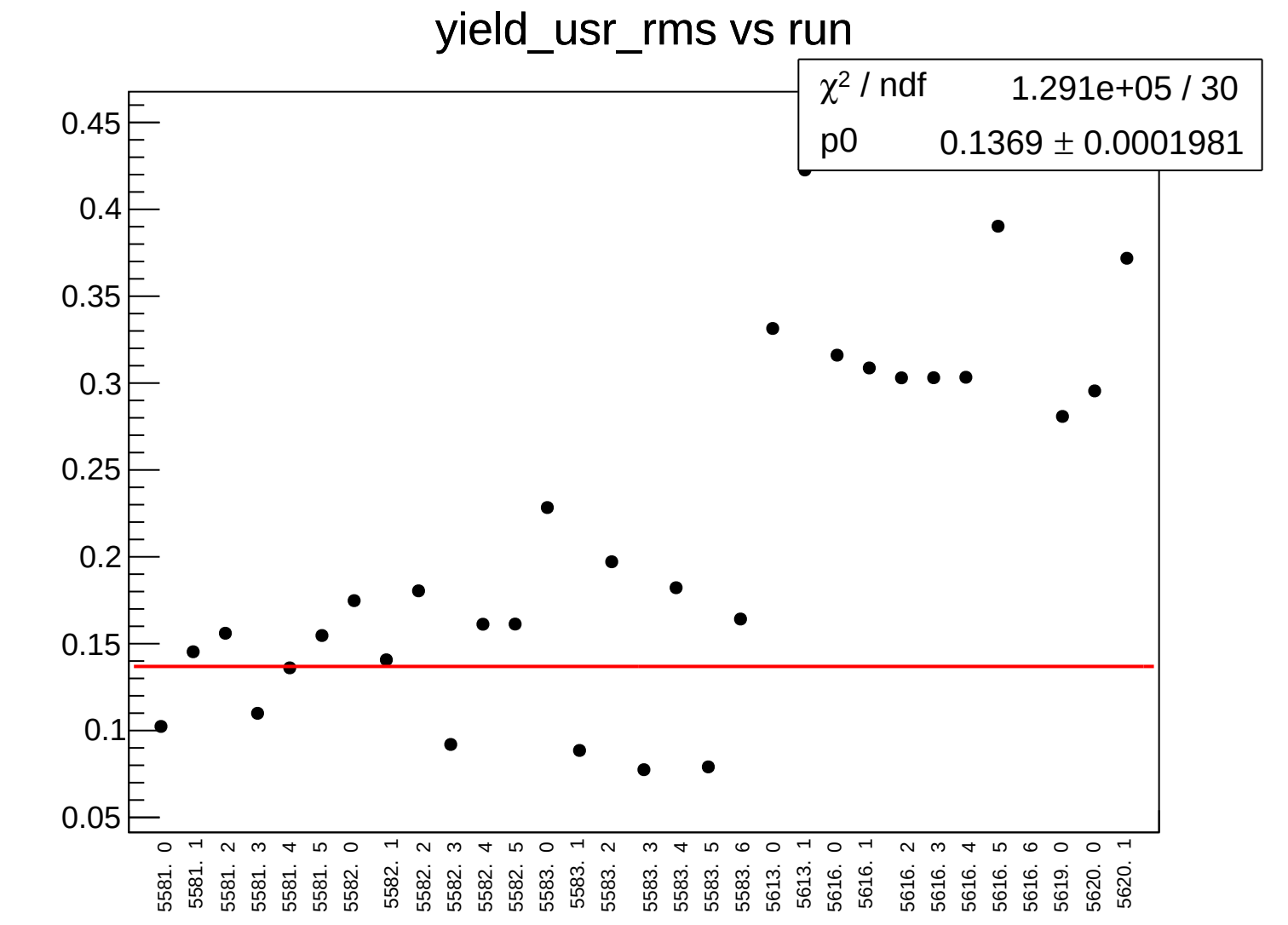

yield_usl_mean vs run
χ² / ndf 4.642e+06 / 30
p0 31.68 ± 0.0002201
34
33.5
33
32.5
32
31.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 31.82
Std Dev 11.04
800
600
400
200
0
−200

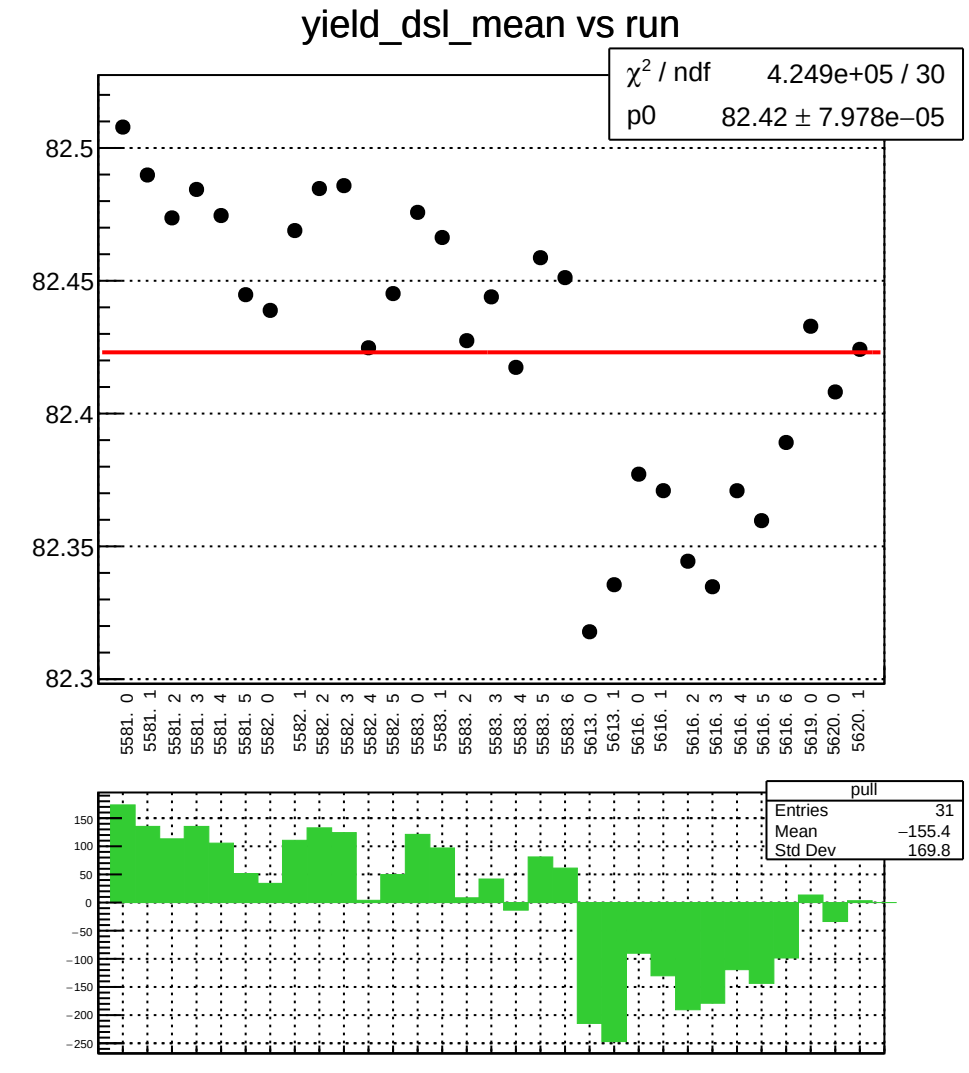

pull1D
Entries 31
Mean −7.254
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

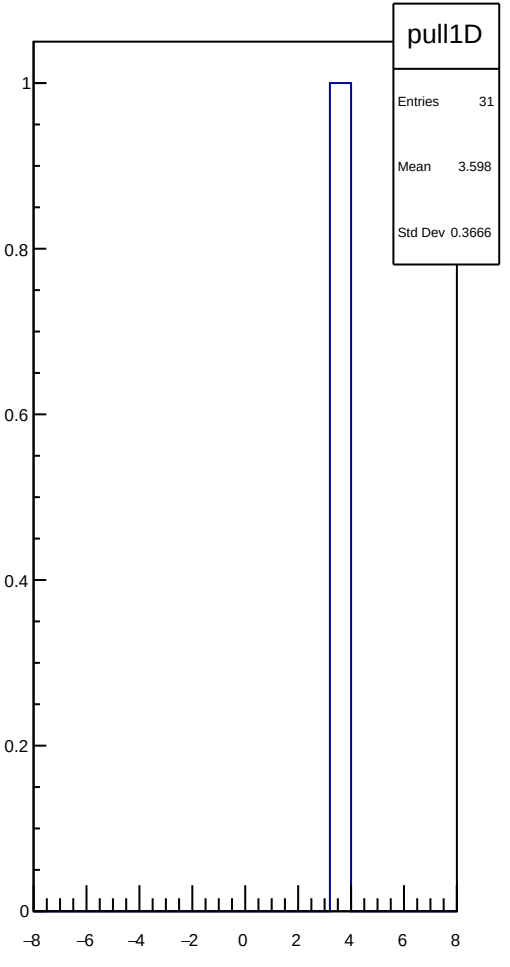

yield_usl_rms vs run
χ² / ndf 1.421e+05 / 30
p0 0.106 ± 0.0001556
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

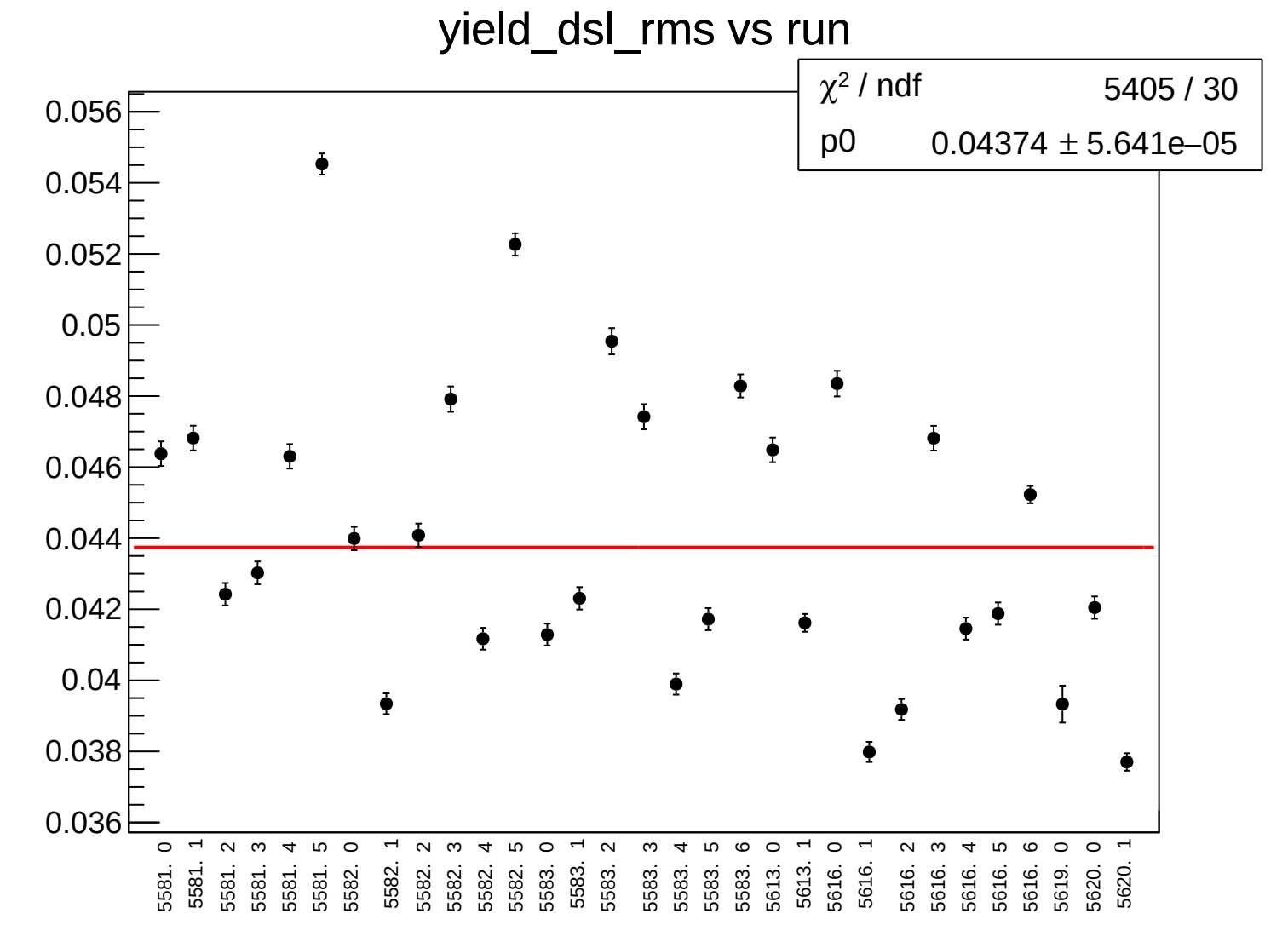

yield_usr_mean vs run
χ² / ndf 2.073e+06 / 30
p0 32.39 ± 0.0002802
34.5
34
33.5
33
32.5
32
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.48
Std Dev 8.702
500
400
300
200
100
0
−100
−200

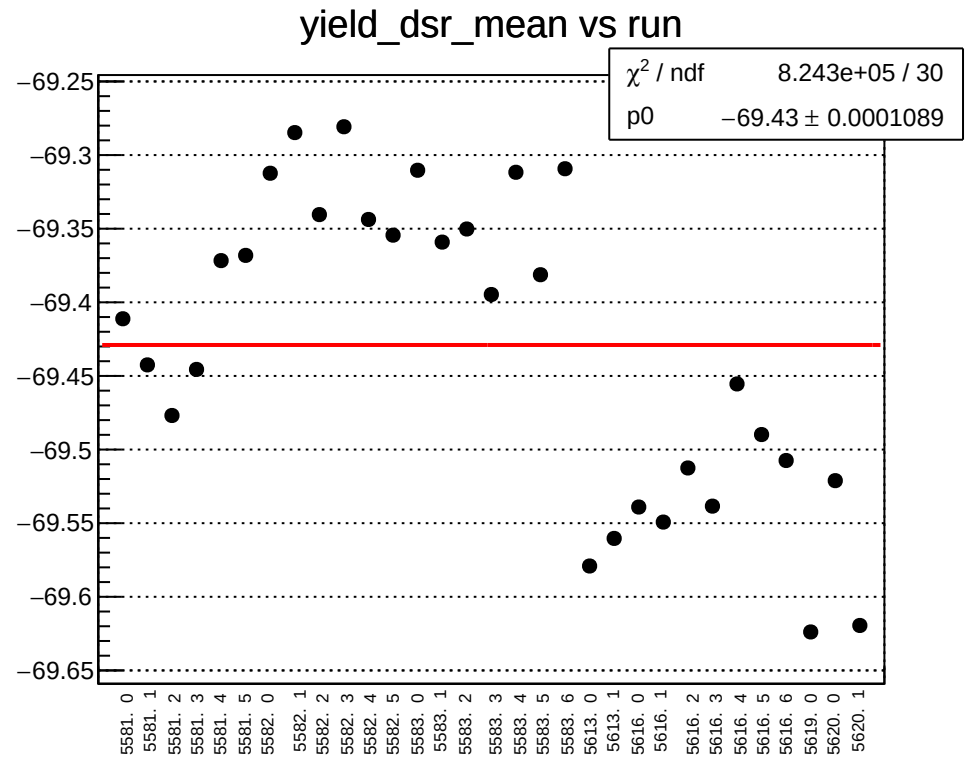

pull1D
Entries 31
Mean 4.06
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

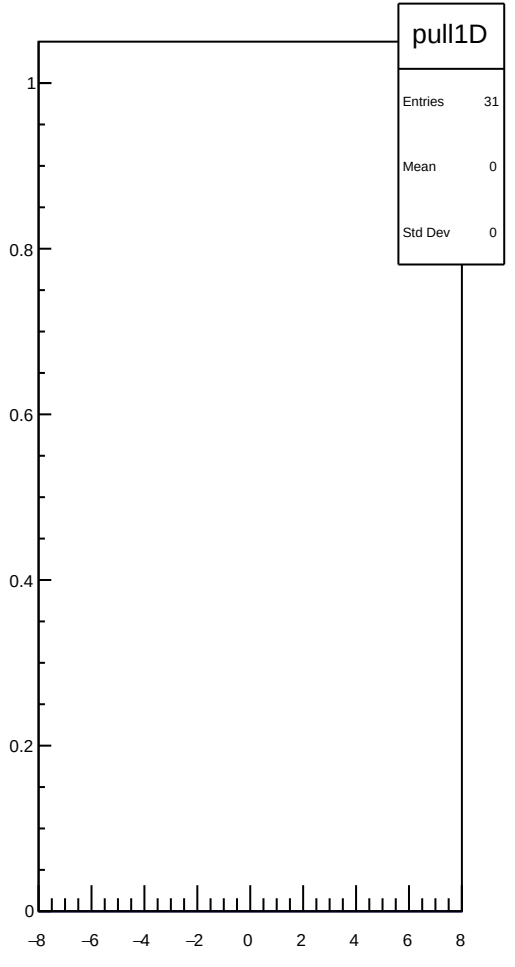

yield_usr_rms vs run
χ² / ndf 1.291e+05 / 30
p0 0.1369 ± 0.0001981
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

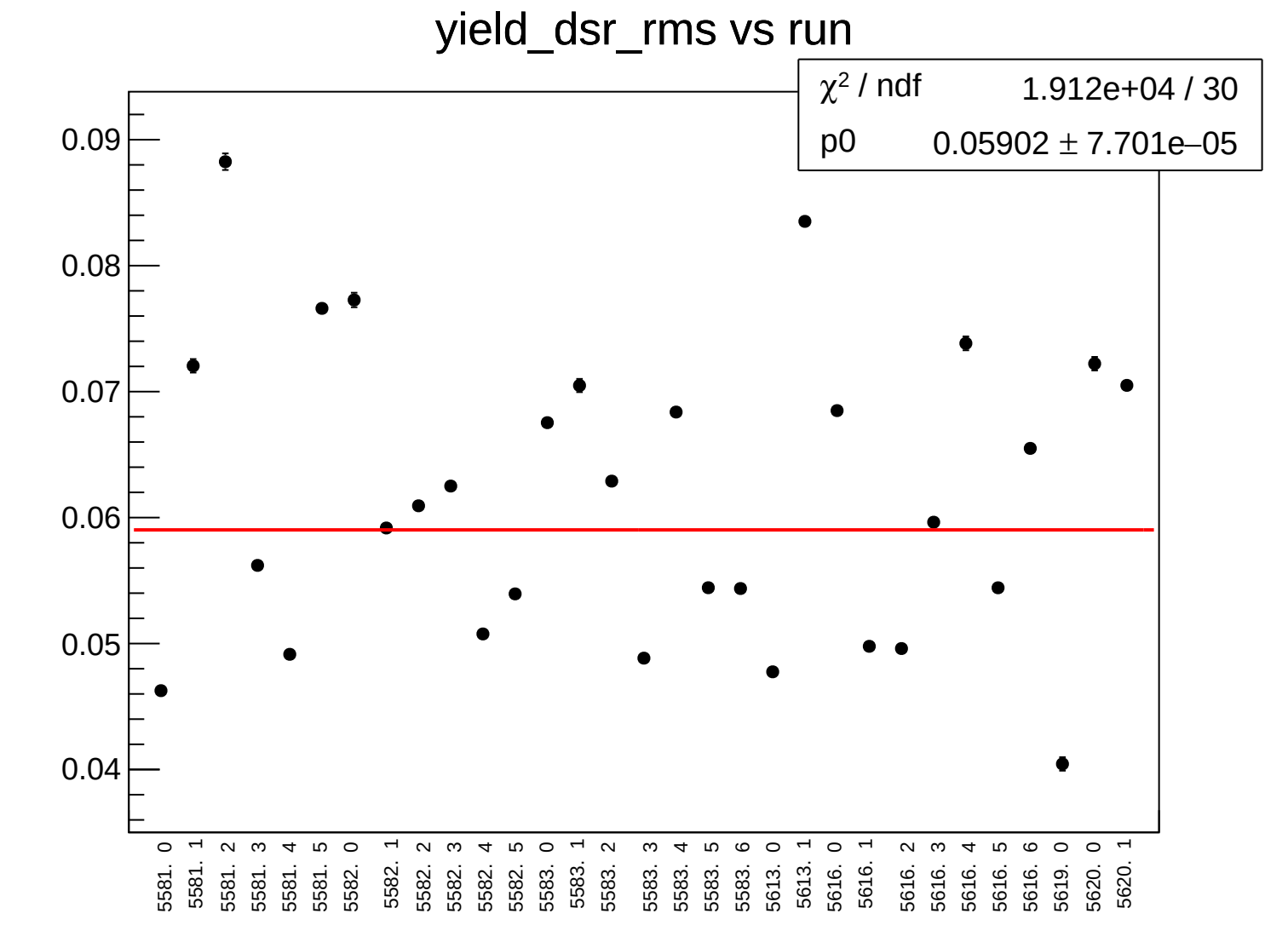

yield_dsl_mean vs run
χ² / ndf 4.249e+05 / 30
p0 82.42 ± 7.978e−05
82.5
82.45
82.4
82.35
82.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −155.4
Std Dev 169.8
150
100
50
0
−50
−100
−150
−200
−250

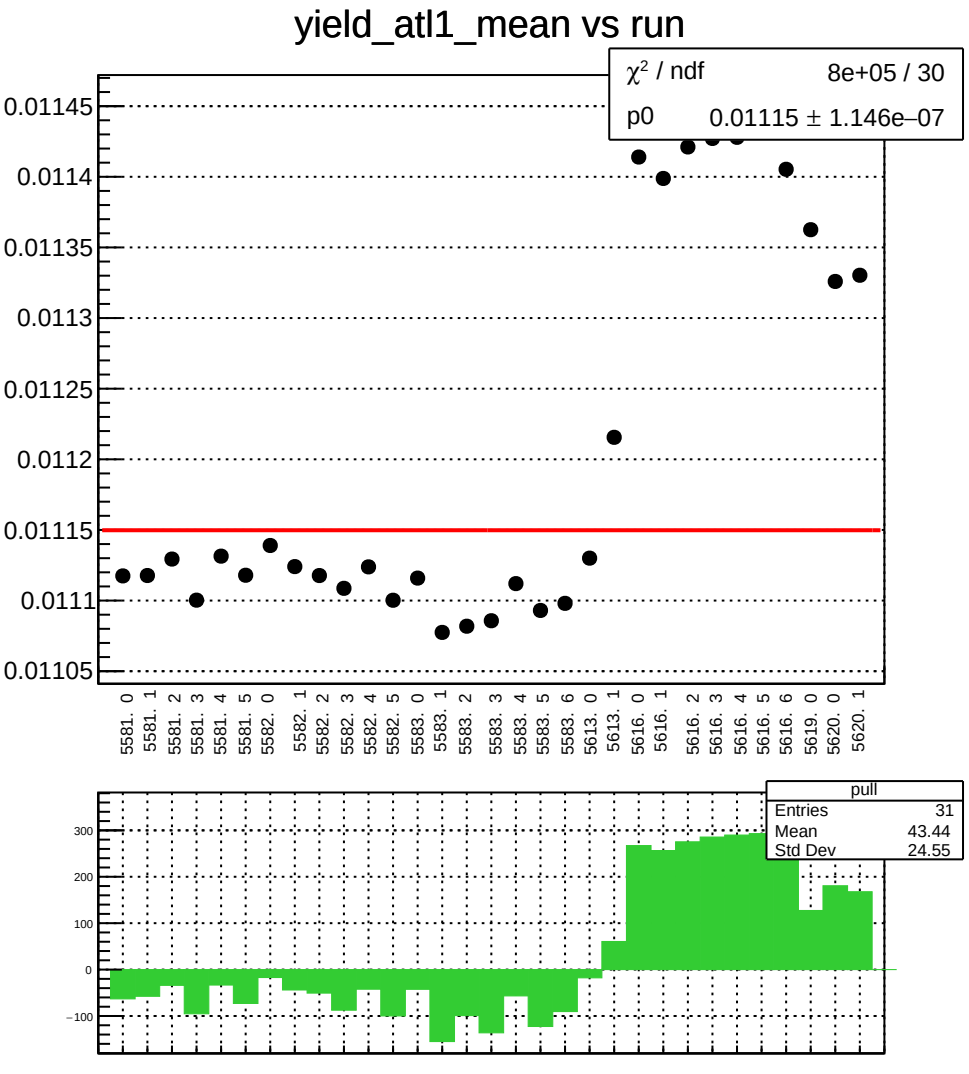

pull1D
Entries 31
Mean 3.598
Std Dev 0.3666
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

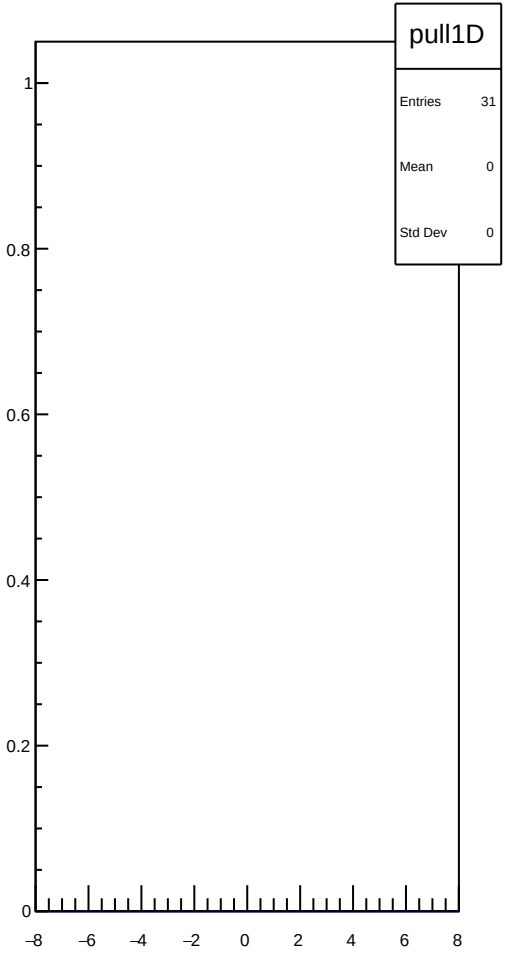

yield_dsl_rms vs run
χ² / ndf 5405 / 30
p0 0.04374 ± 5.641e–05
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

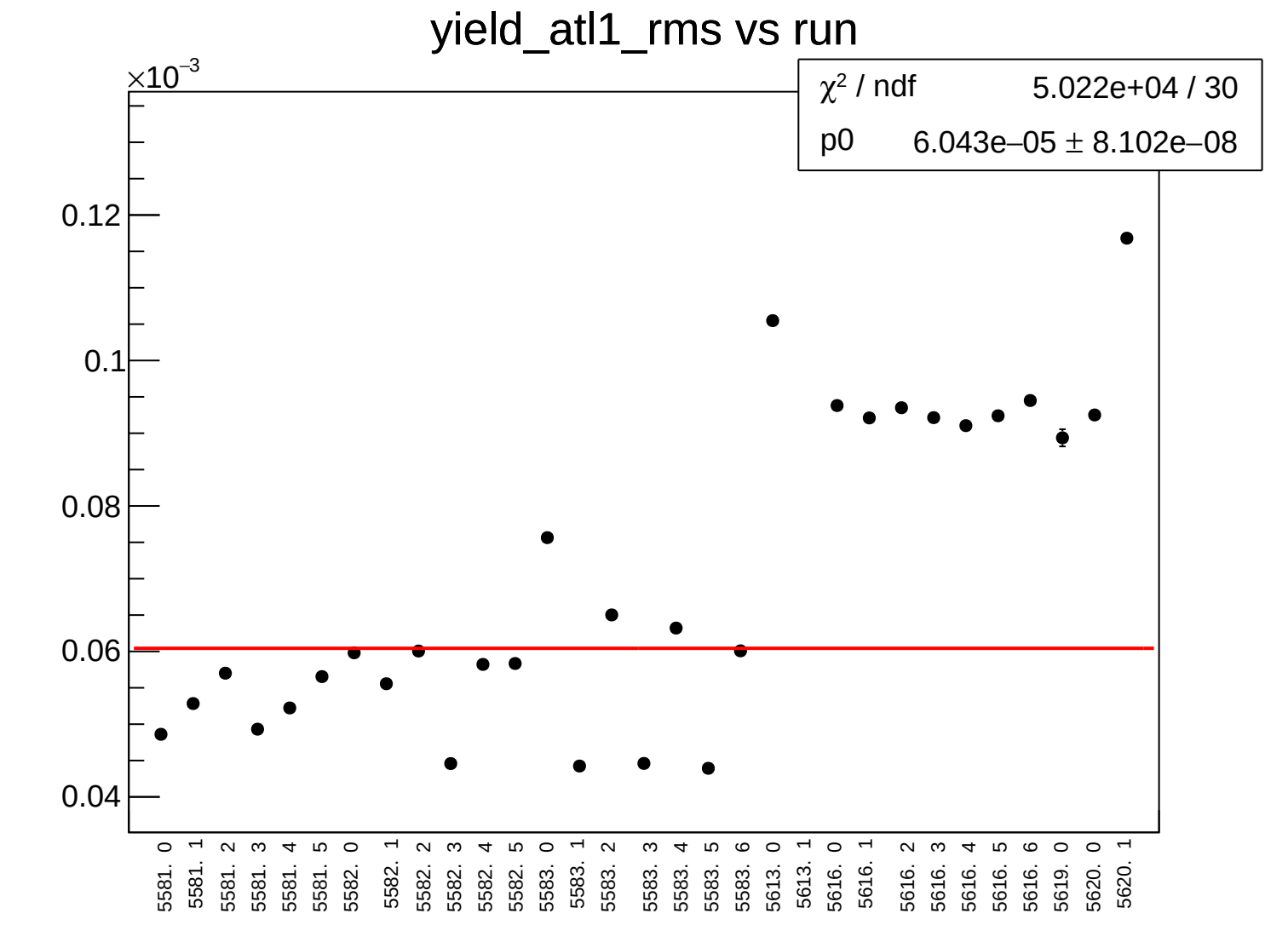

yield_dsr_mean vs run
χ² / ndf 8.243e+05 / 30
p0 −69.43 ± 0.0001089
−69.25
−69.3
−69.35
−69.4
−69.45
−69.5
−69.55
−69.6
−69.65
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 892
Std Dev 873.8
200
100
0
−100
−200
−300

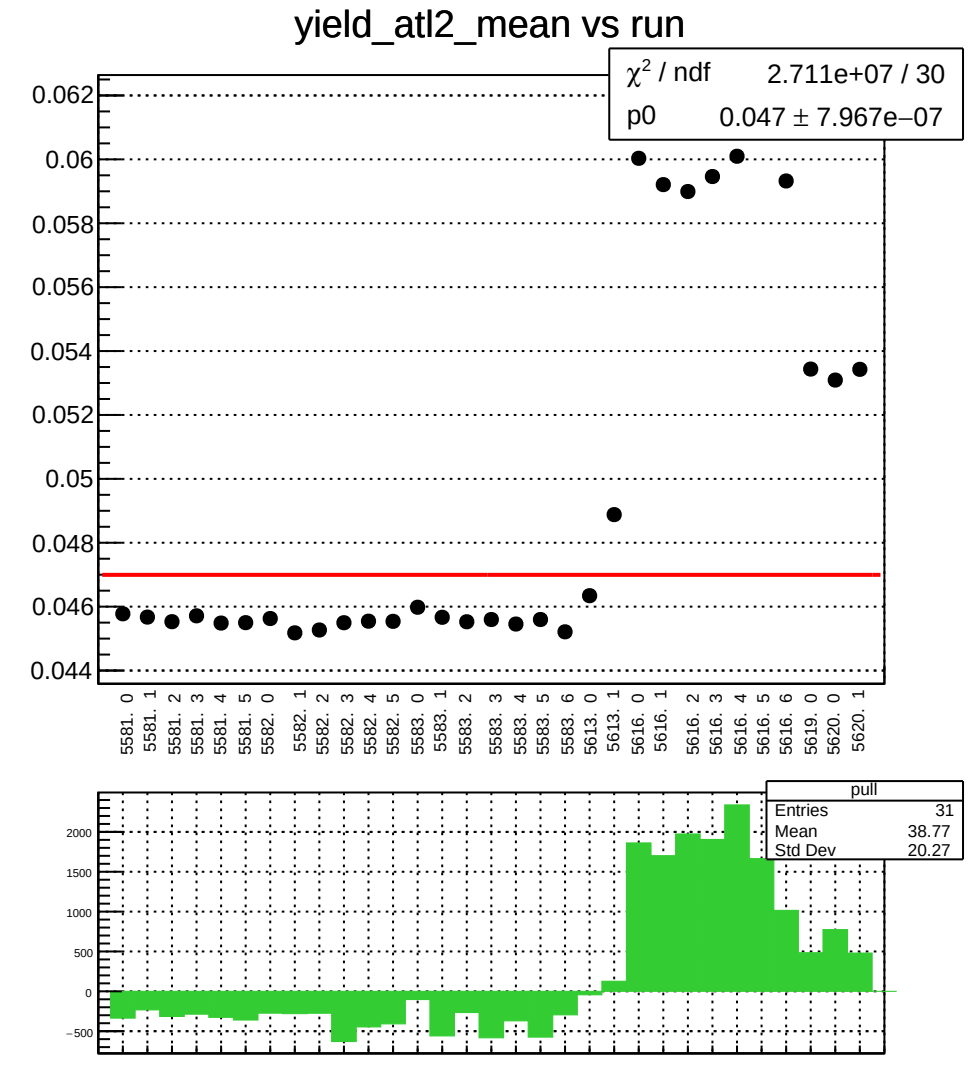

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

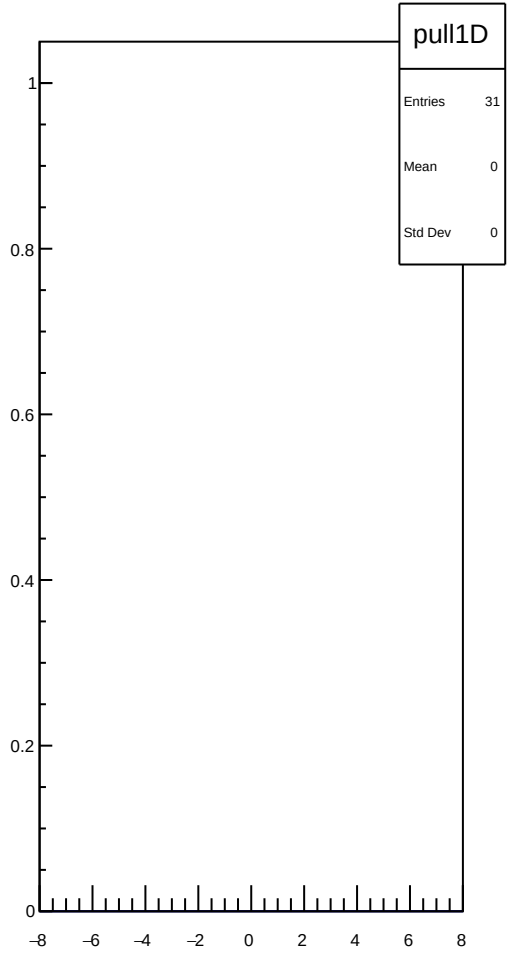

yield_dsr_rms vs run
χ² / ndf 1.912e+04 / 30
p0 0.05902 ± 7.701e–05
0.09
0.08
0.07
0.06
0.05
0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

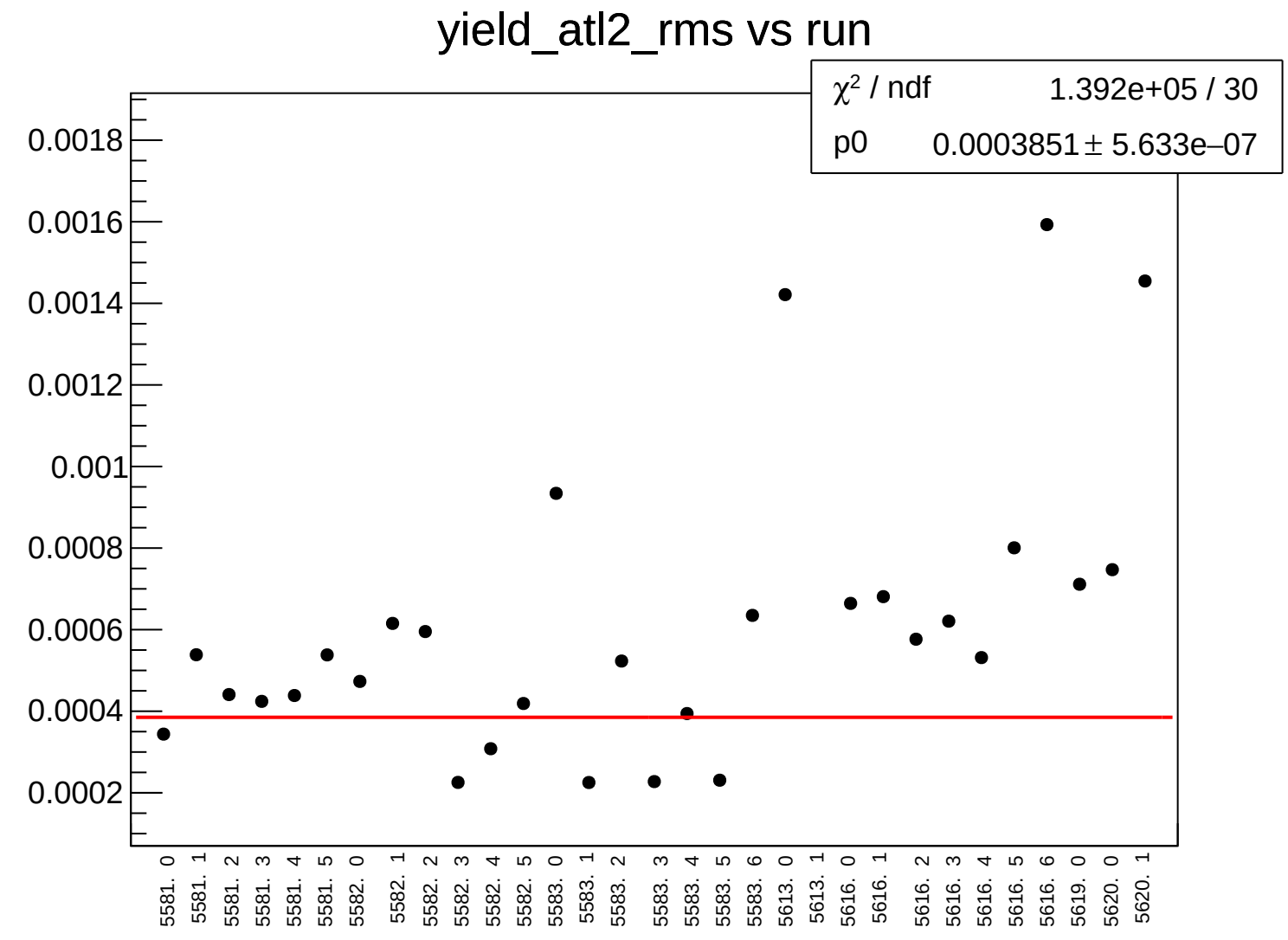

yield_atl1_mean vs run
χ² / ndf 8e+05 / 30
p0 0.01115 ± 1.146e−07
0.01145
0.0114
0.01135
0.0113
0.01125
0.0112
0.01115
0.0111
0.01105
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.44
Std Dev 24.55
300
200
100
0
−100

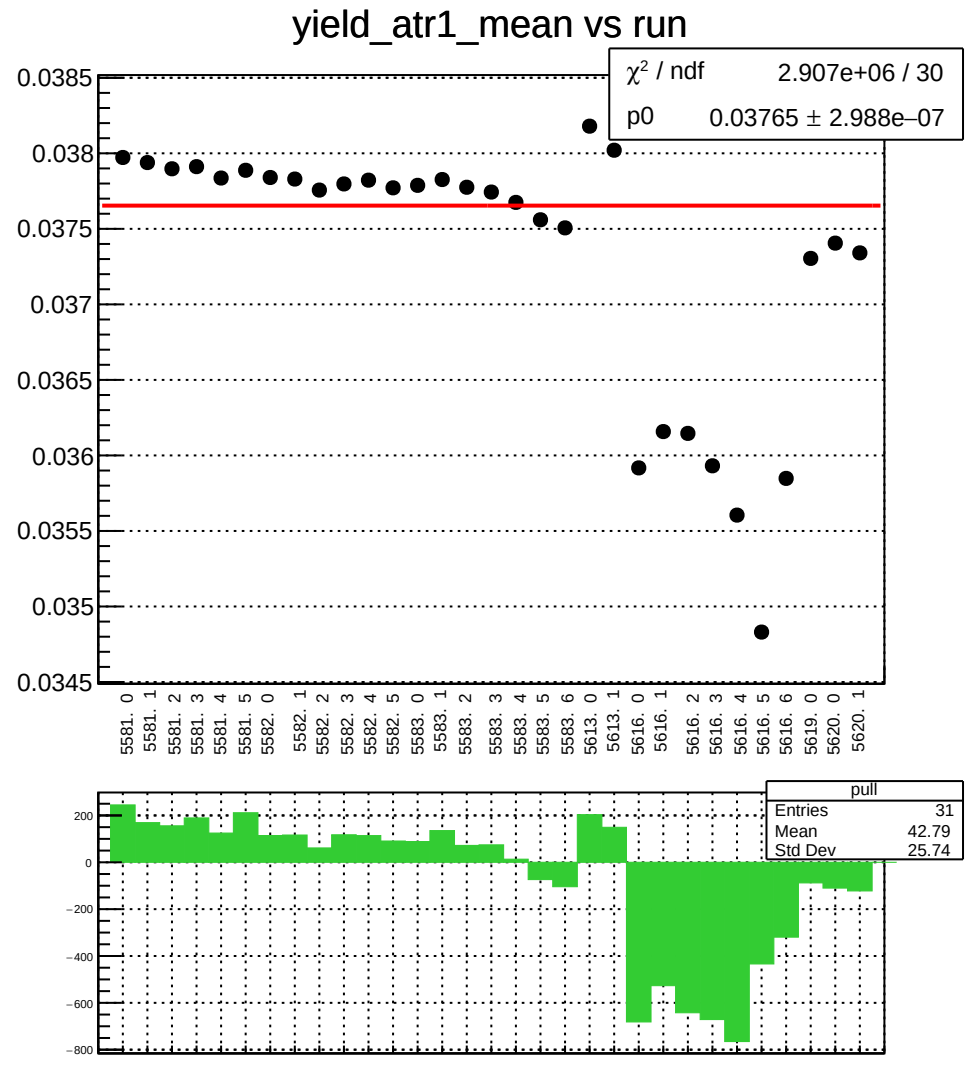

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

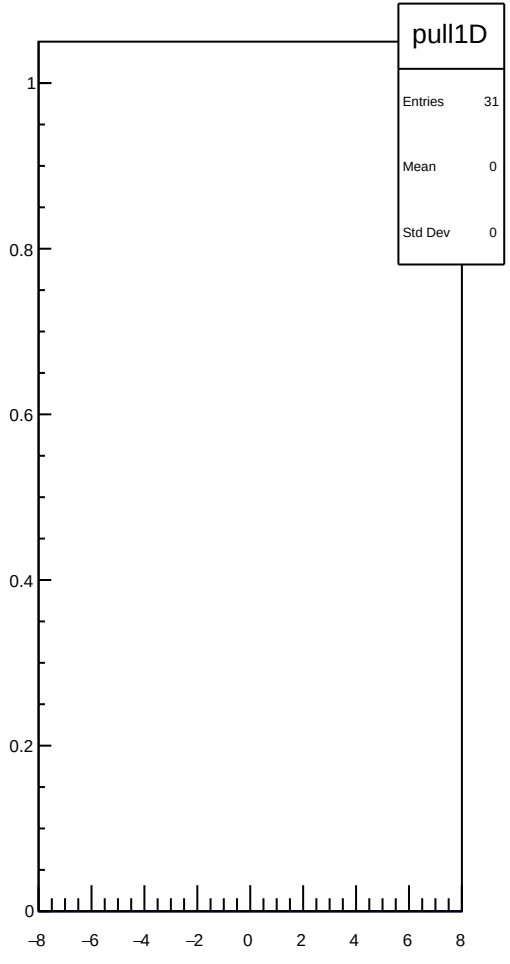

yield_atl1_rms vs run
×10⁻³
χ² / ndf 5.022e+04 / 30
p0 6.043e−05 ± 8.102e−08
0.12
0.1
0.08
0.06
0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

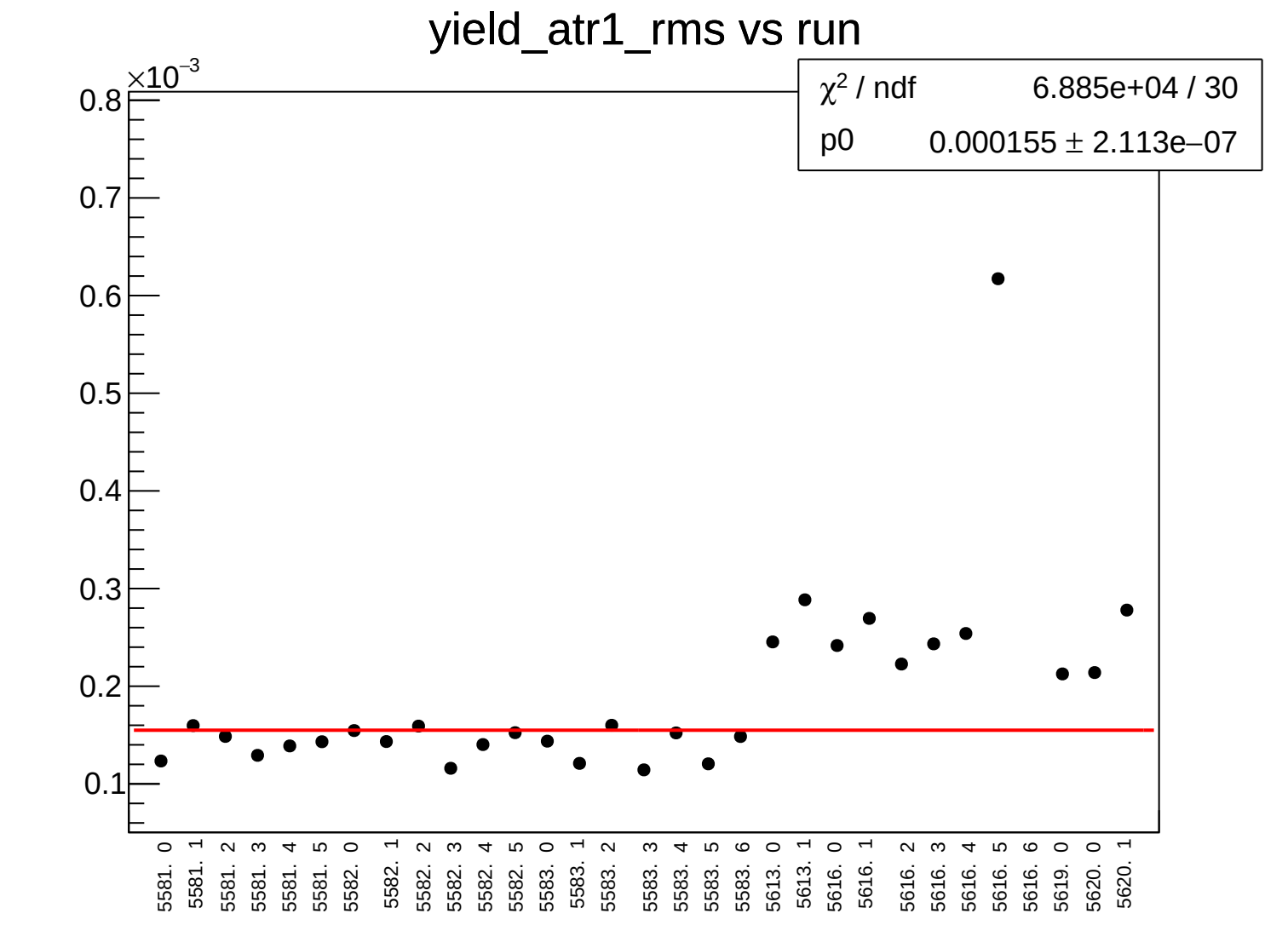

yield_atl2_mean vs run
χ² / ndf 2.711e+07 / 30
p0 0.047 ± 7.967e−07
0.062
0.06
0.058
0.056
0.054
0.052
0.05
0.048
0.046
0.044
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.77
Std Dev 20.27
2000
1500
1000
500
0
−500

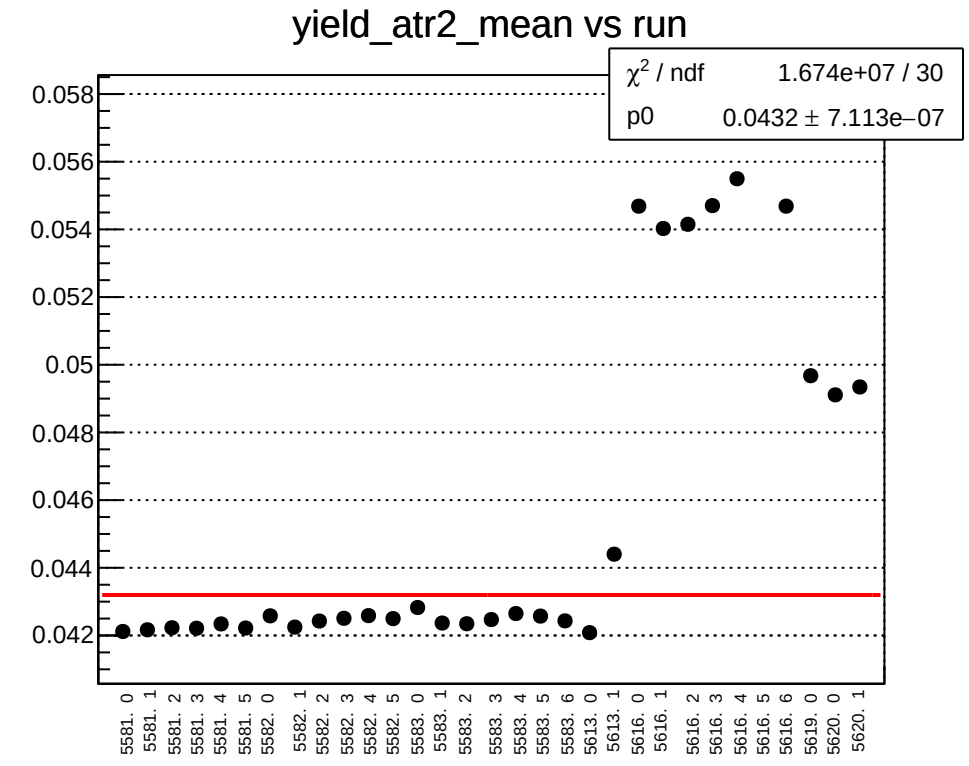

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

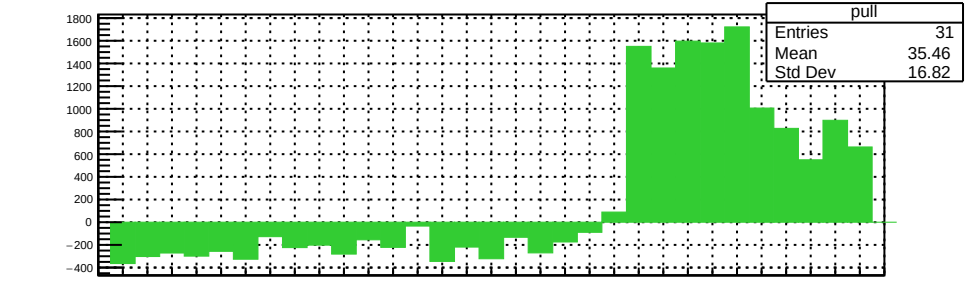

yield_atl2_rms vs run
χ² / ndf 1.392e+05 / 30
p0 0.0003851 ± 5.633e–07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

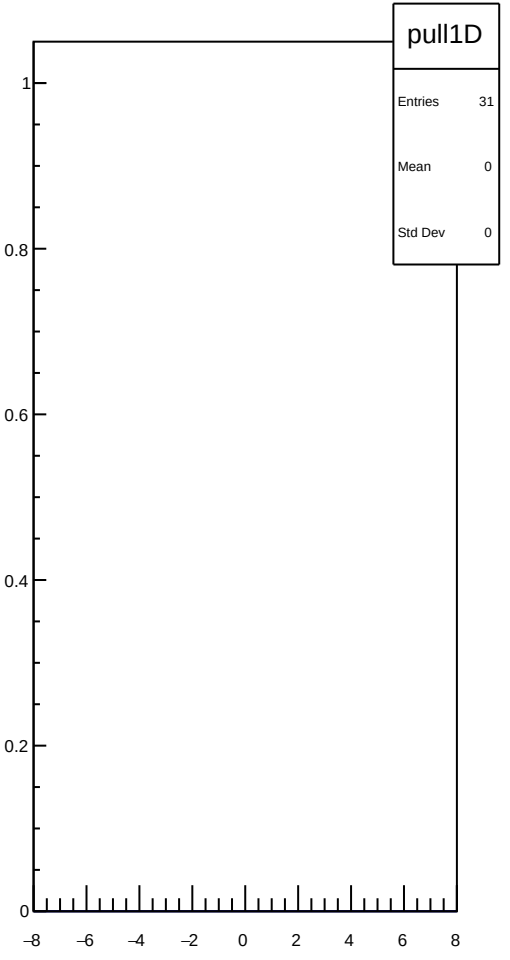

yield_atr1_mean vs run
χ² / ndf 2.907e+06 / 30
p0 0.03765 ± 2.988e−07
0.0385
0.038
0.0375
0.037
0.0365
0.036
0.0355
0.035
0.0345
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.79
Std Dev 25.74
200
0
−200
−400
−600
−800

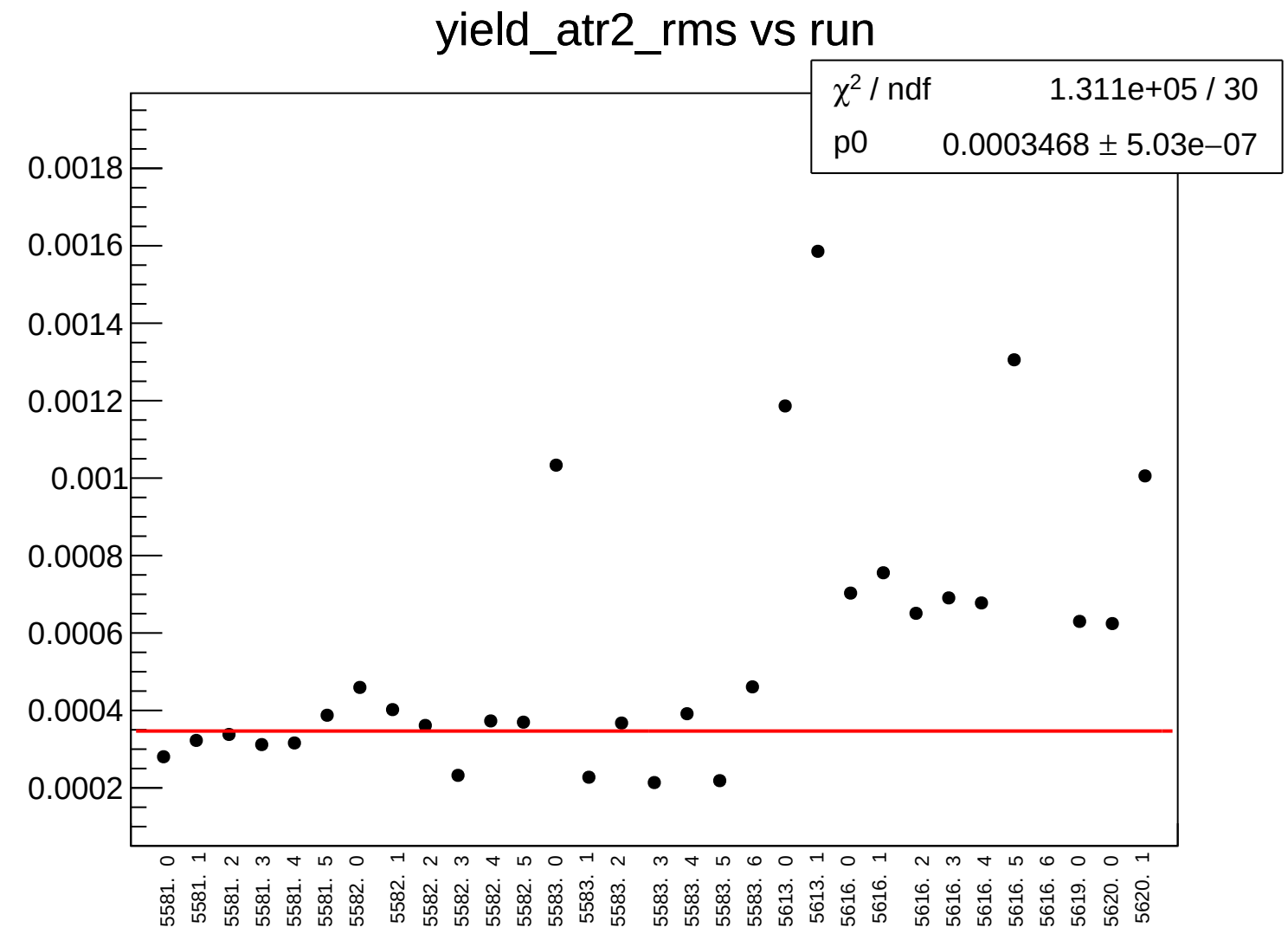

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

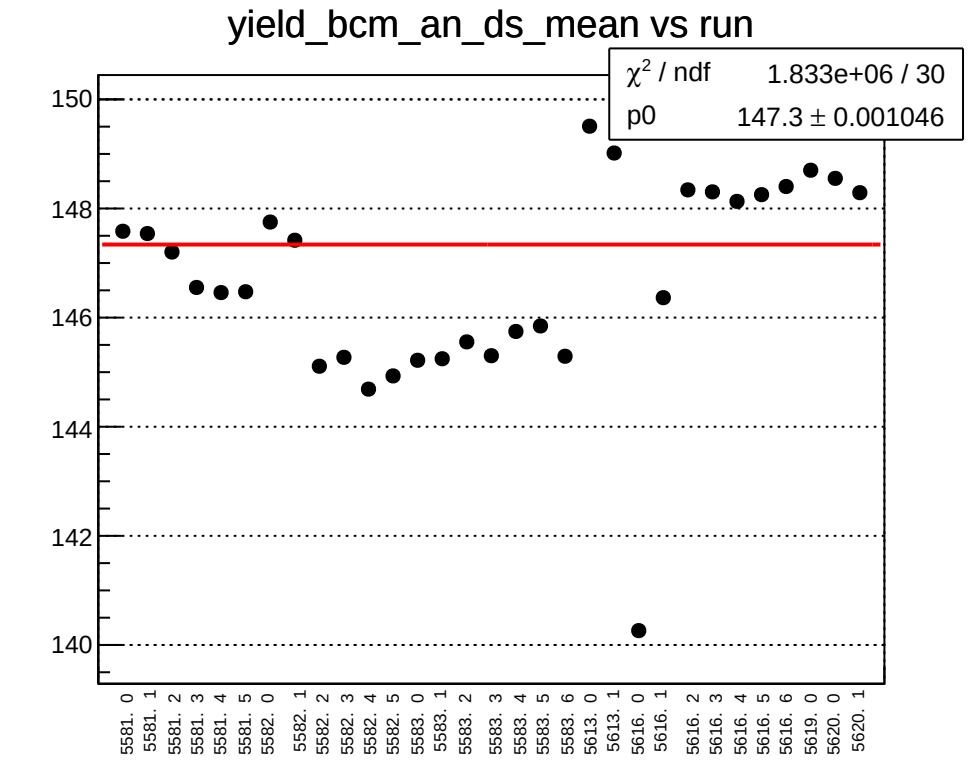

yield_atr1_rms vs run
×10⁻³
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.885e+04 / 30
p0 0.000155 ± 2.113e−07
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

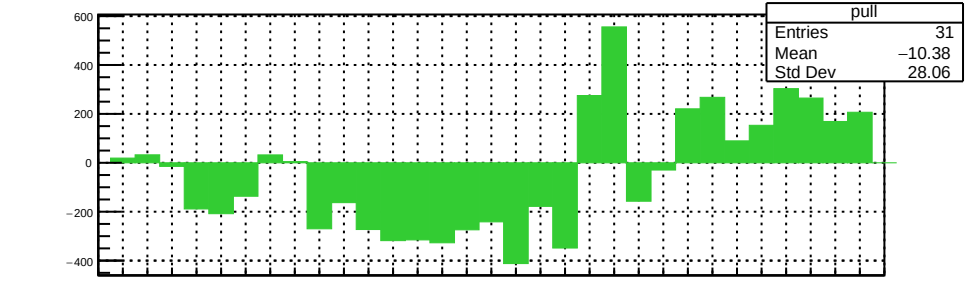

yield_atr2_mean vs run
χ² / ndf 1.674e+07 / 30
p0 0.0432 ± 7.113e−07
0.058
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

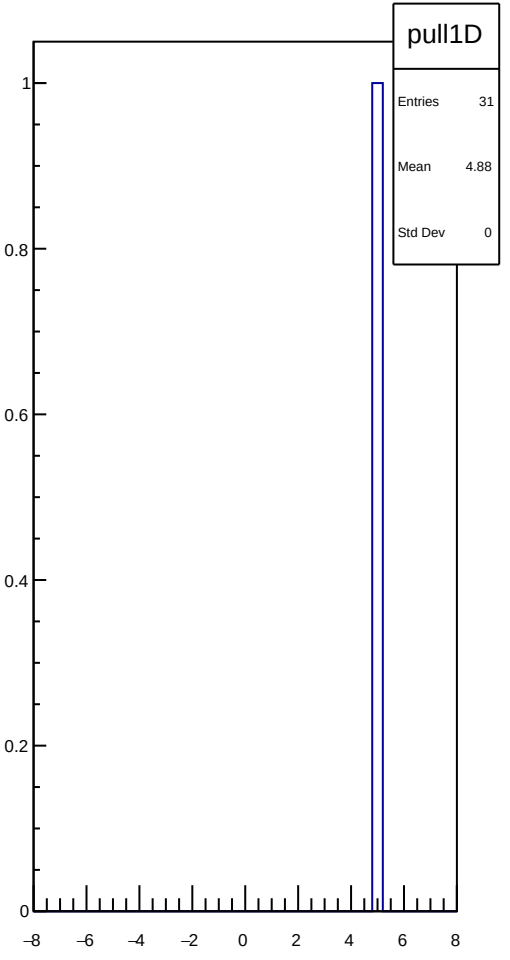

pull
Entries 31
Mean 35.46
Std Dev 16.82
1800
1600
1400
1200
1000
800
600
400
200
0
−200
−400

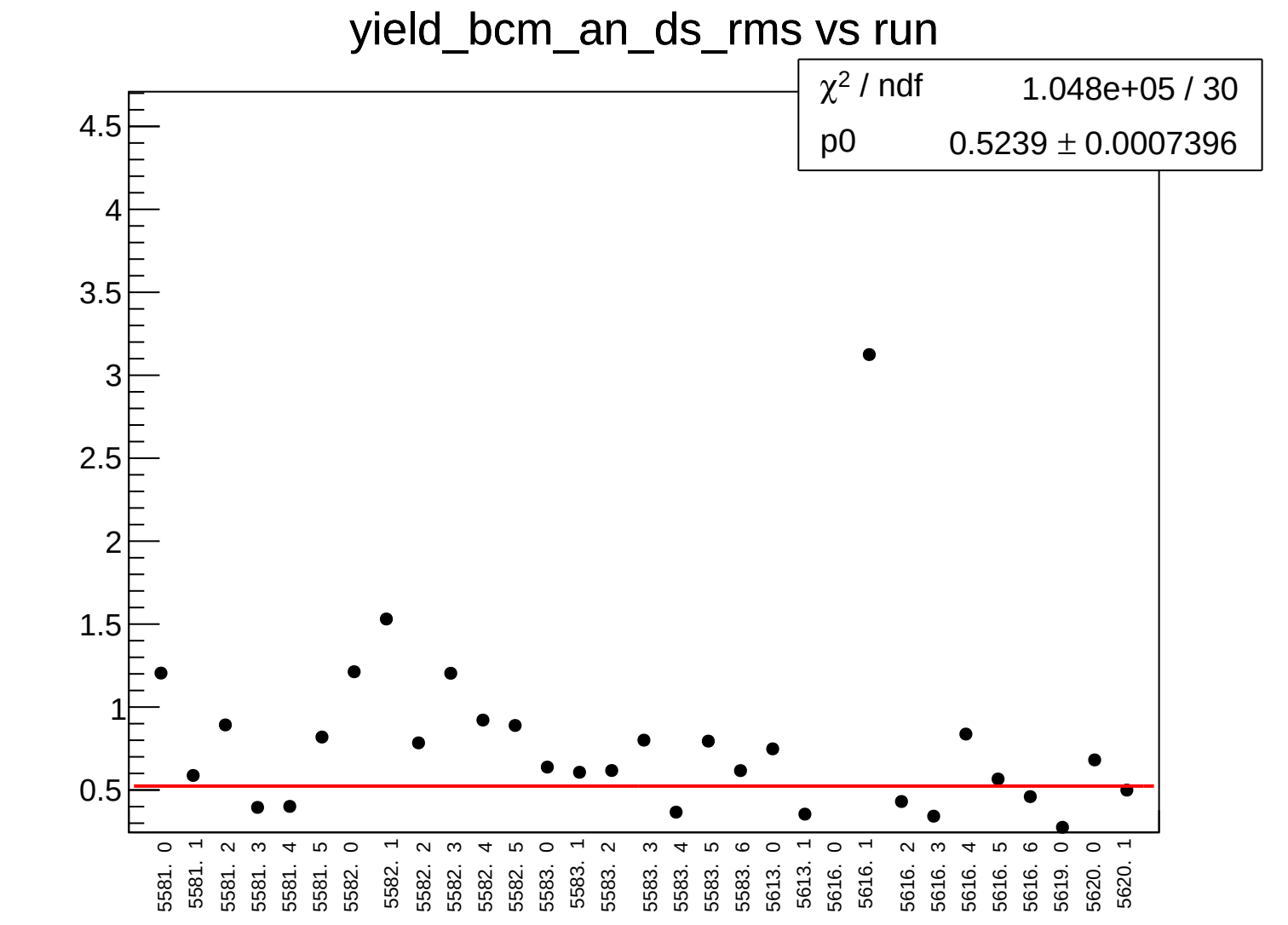

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

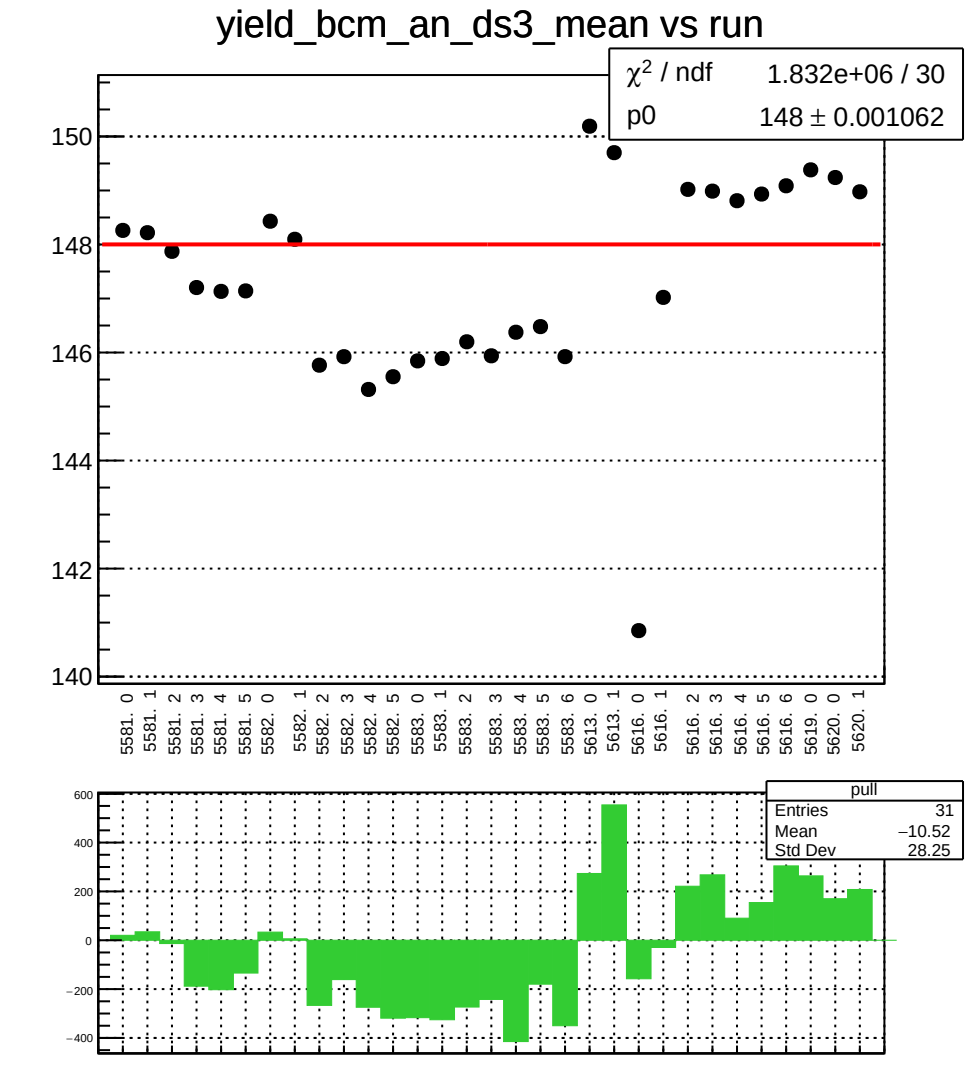

yield_atr2_rms vs run
χ² / ndf 1.311e+05 / 30
p0 0.0003468 ± 5.03e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

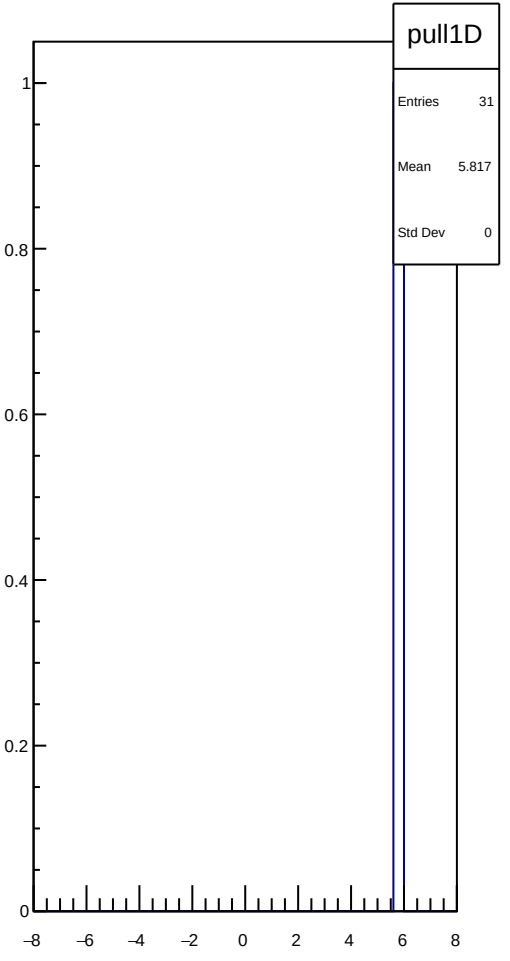

yield_bcm_an_ds_mean vs run
χ² / ndf 1.833e+06 / 30
p0 147.3 ± 0.001046
150
148
146
144
142
140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

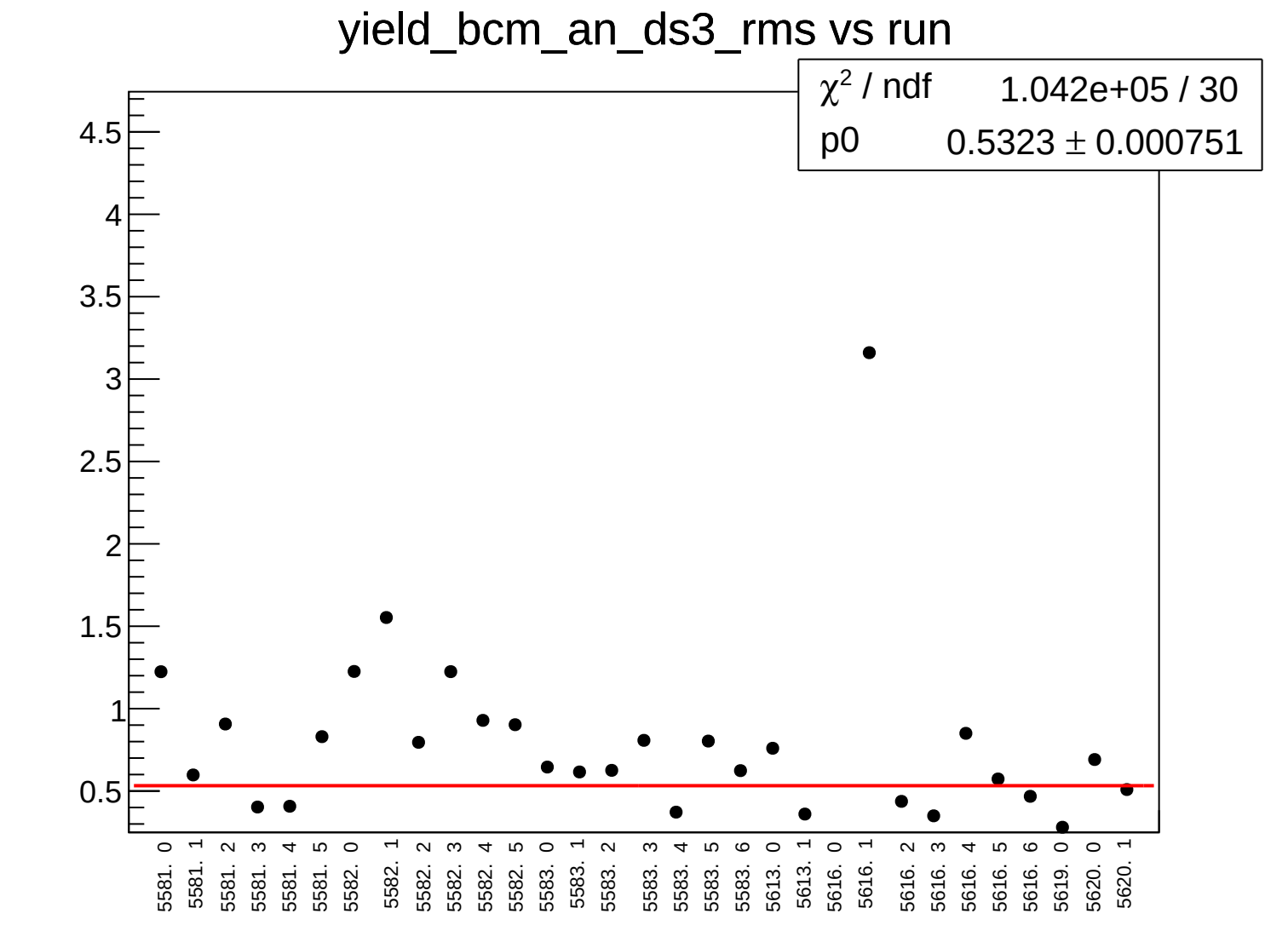

pull
Entries 31
Mean −10.38
Std Dev 28.06
600
400
200
0
−200
−400

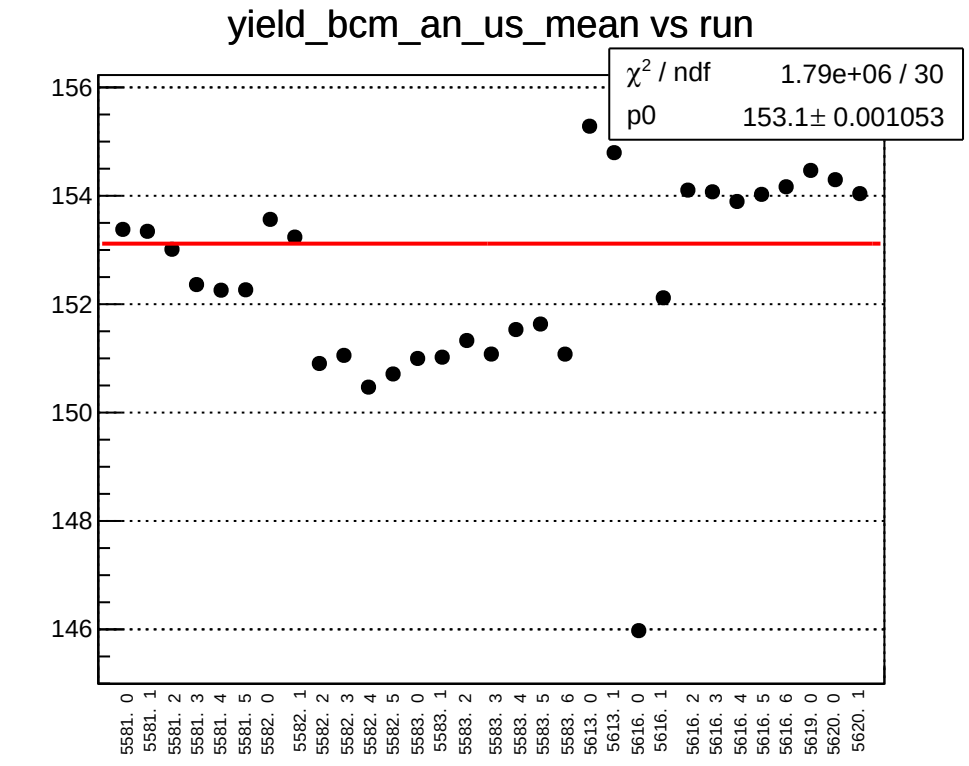

pull1D
Entries 31
Mean 4.88
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

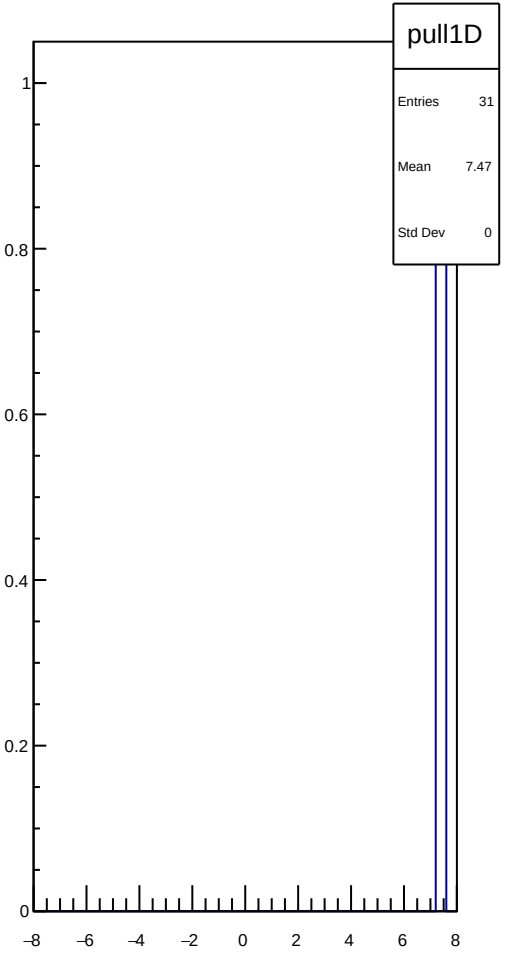

yield_bcm_an_ds_rms vs run
χ2 / ndf 1.048e+05 / 30
p0 0.5239 ± 0.0007396
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

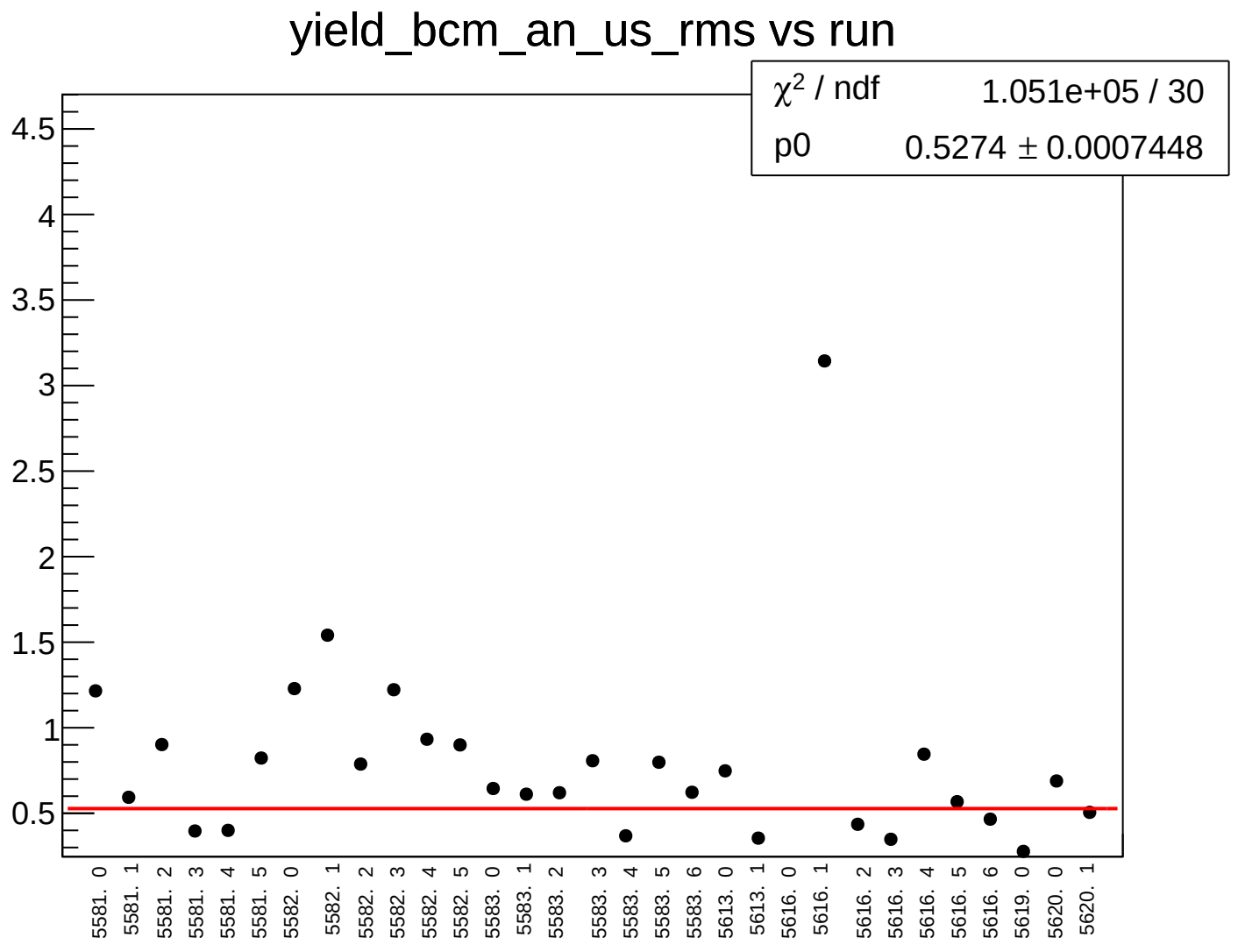

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.832e+06 / 30
p0 148 ± 0.001062
150
148
146
144
142
140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −10.52
Std Dev 28.25
600
400
200
0
−200
−400

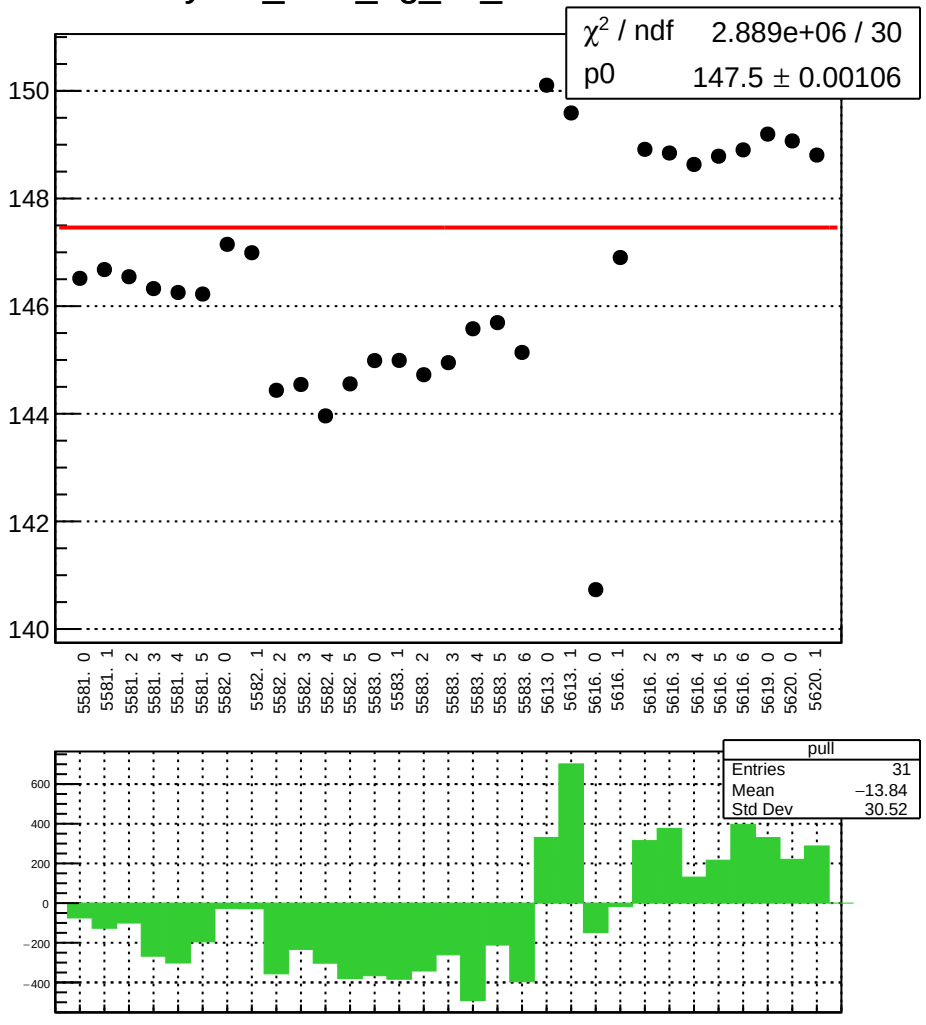

pull1D
Entries 31
Mean 5.817
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

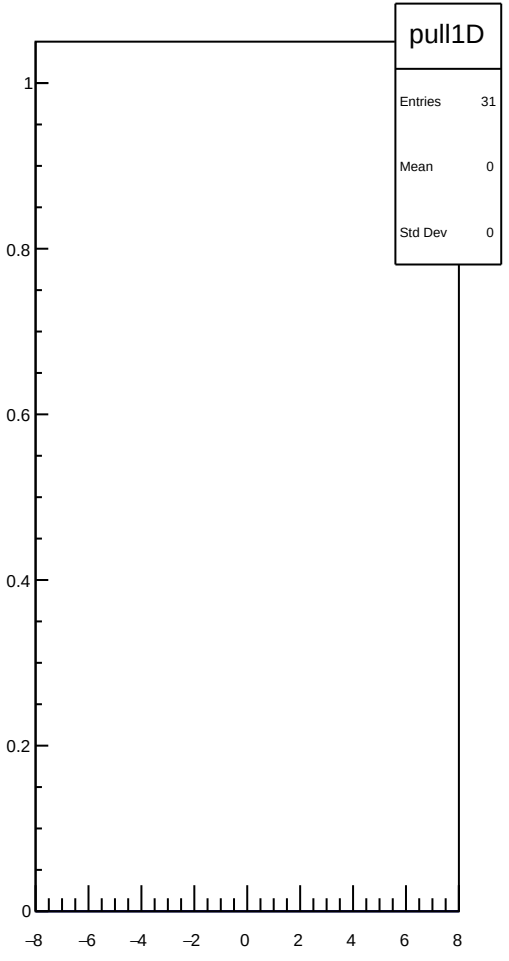

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.042e+05 / 30
p0 0.5323 ± 0.000751
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

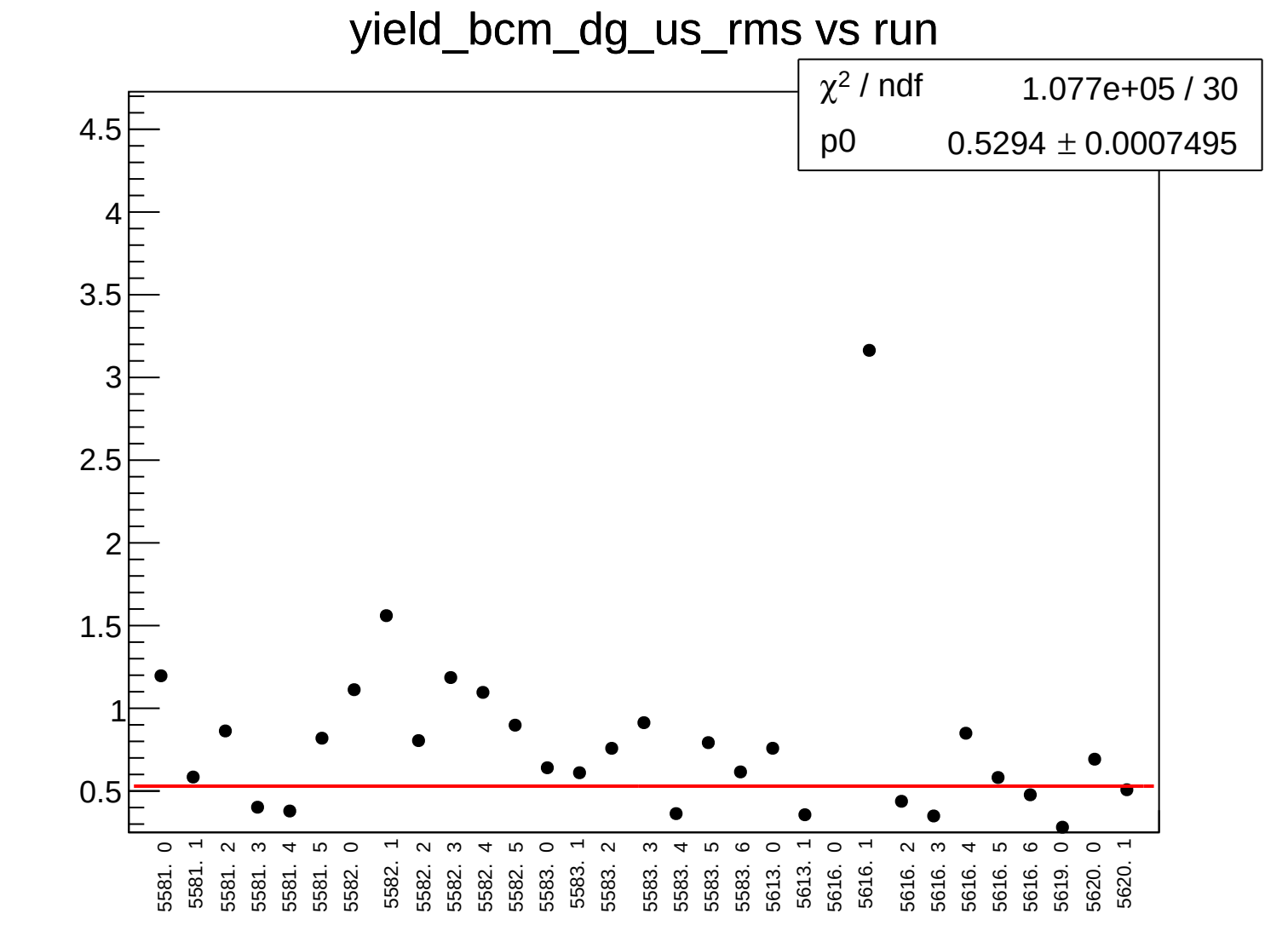

yield_bcm_an_us_mean vs run
χ² / ndf 1.79e+06 / 30
p0 153.1± 0.001053
156
154
152
150
148
146
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −10.02
Std Dev 27.73
600
400
200
0
−200
−400

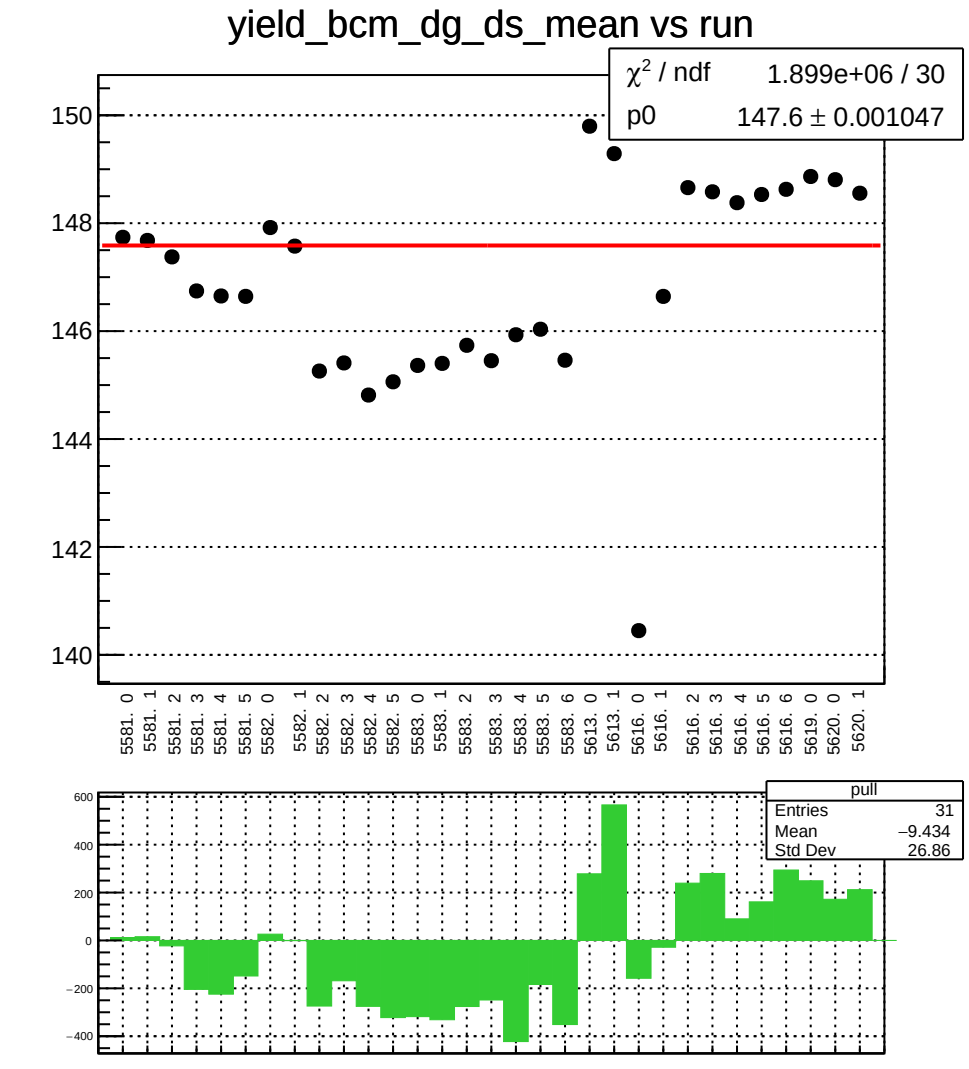

pull1D
Entries 31
Mean 7.47
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

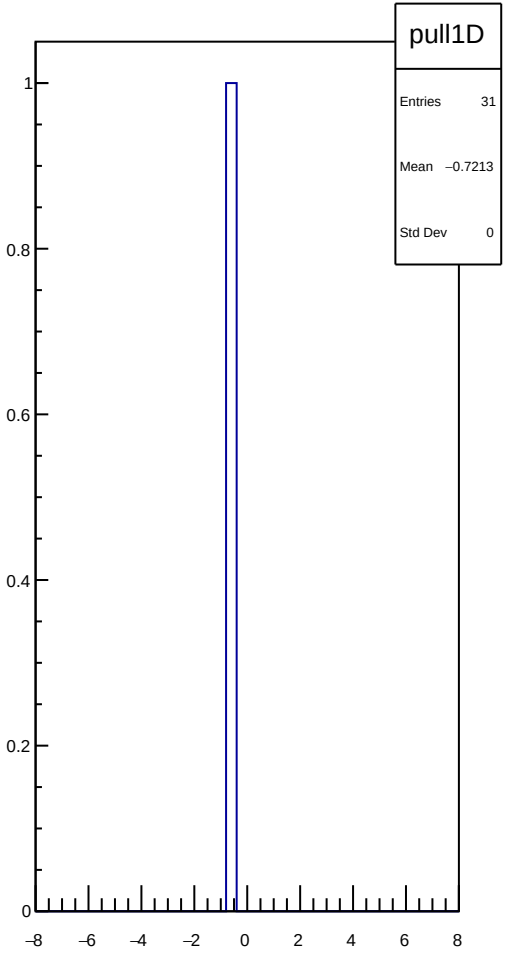

yield_bcm_an_us_rms vs run
χ2 / ndf 1.051e+05 / 30
p0 0.5274 ± 0.0007448
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

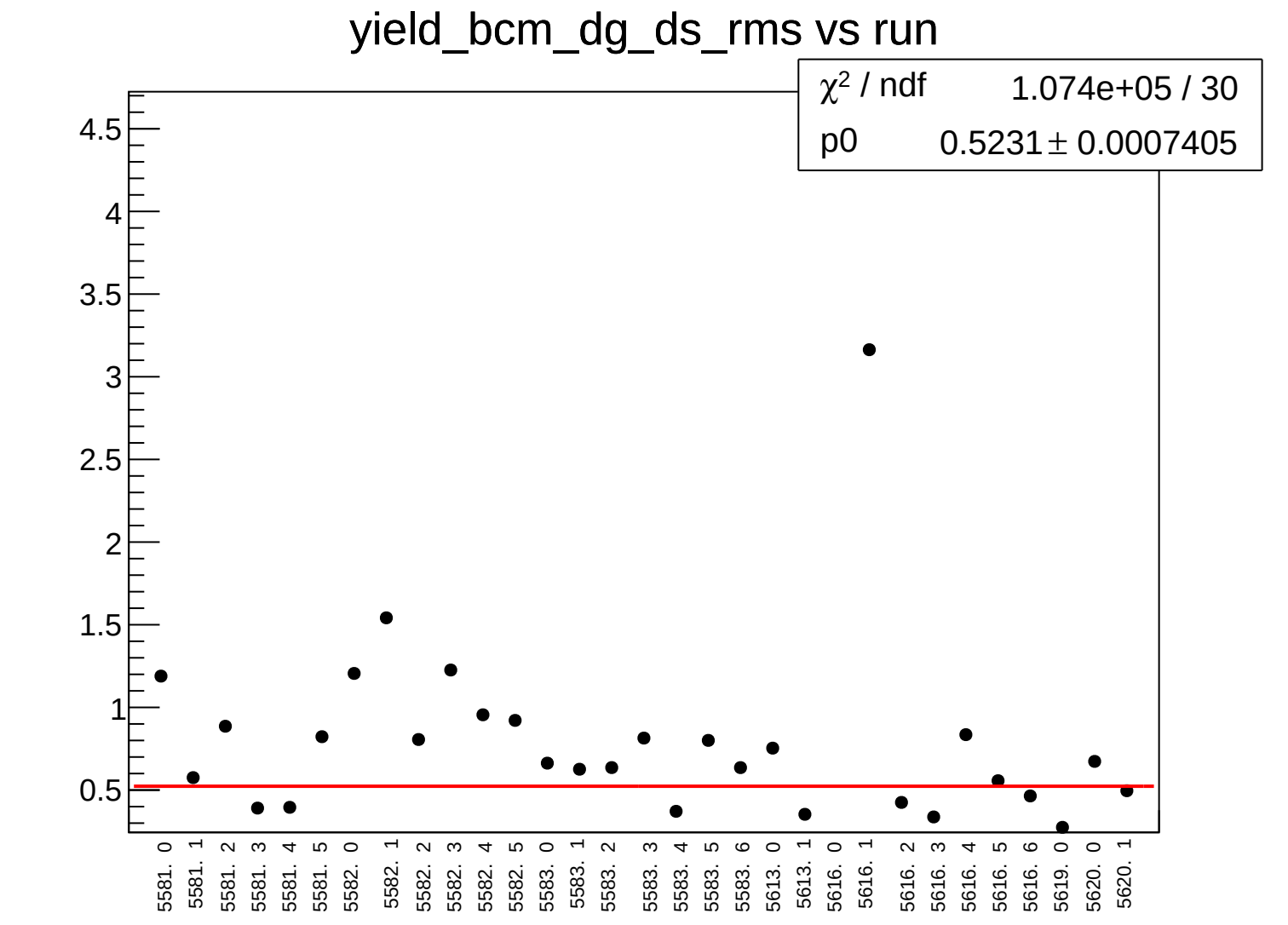

yield_bcm_dg_us_mean vs run
χ² / ndf 2.889e+06 / 30
p0 147.5 ± 0.00106
150
148
146
144
142
140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −13.84
Std Dev 30.52
600
400
200
0
−200
−400

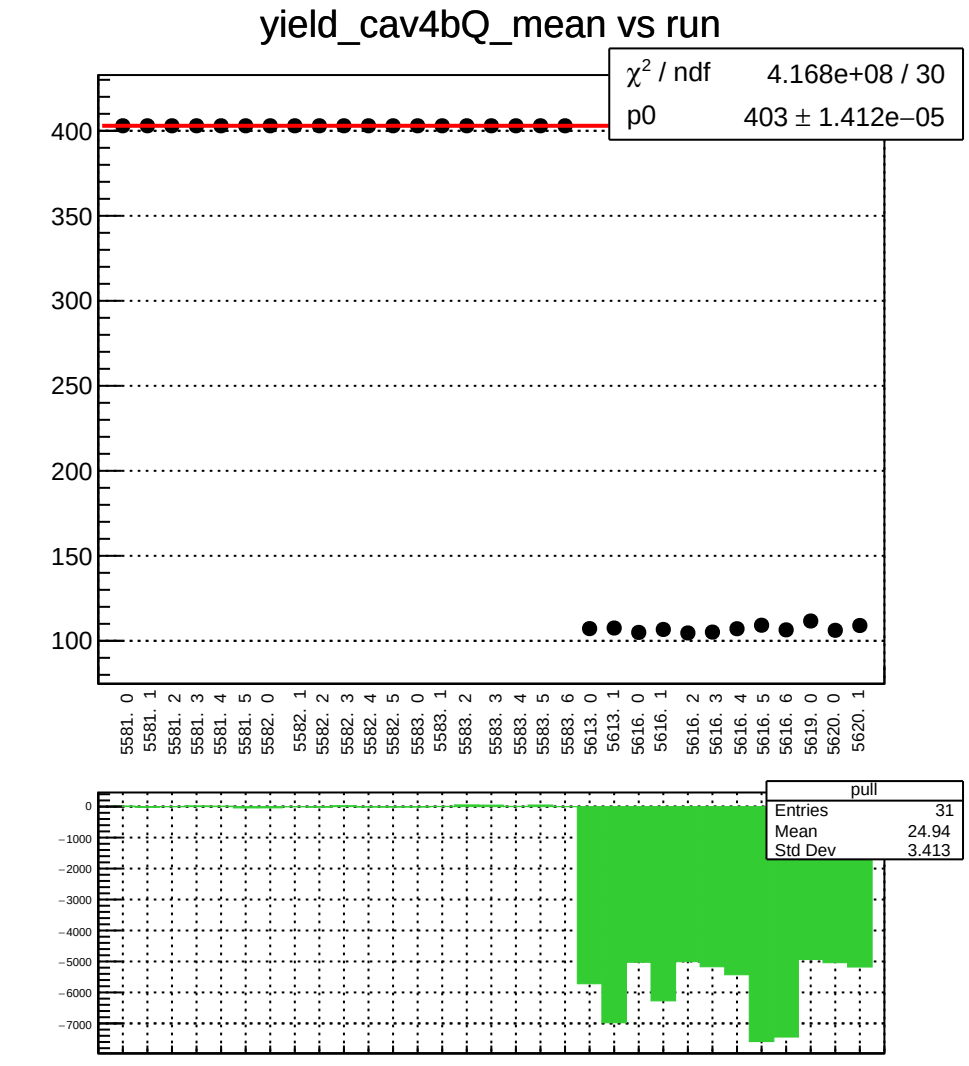

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

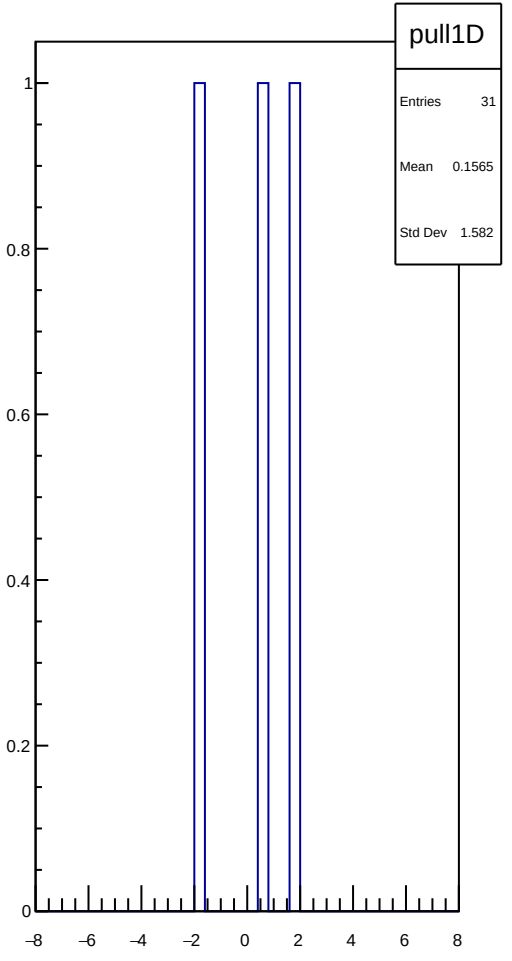

yield_bcm_dg_us_rms vs run
χ2 / ndf 1.077e+05 / 30
p0 0.5294 ± 0.0007495
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

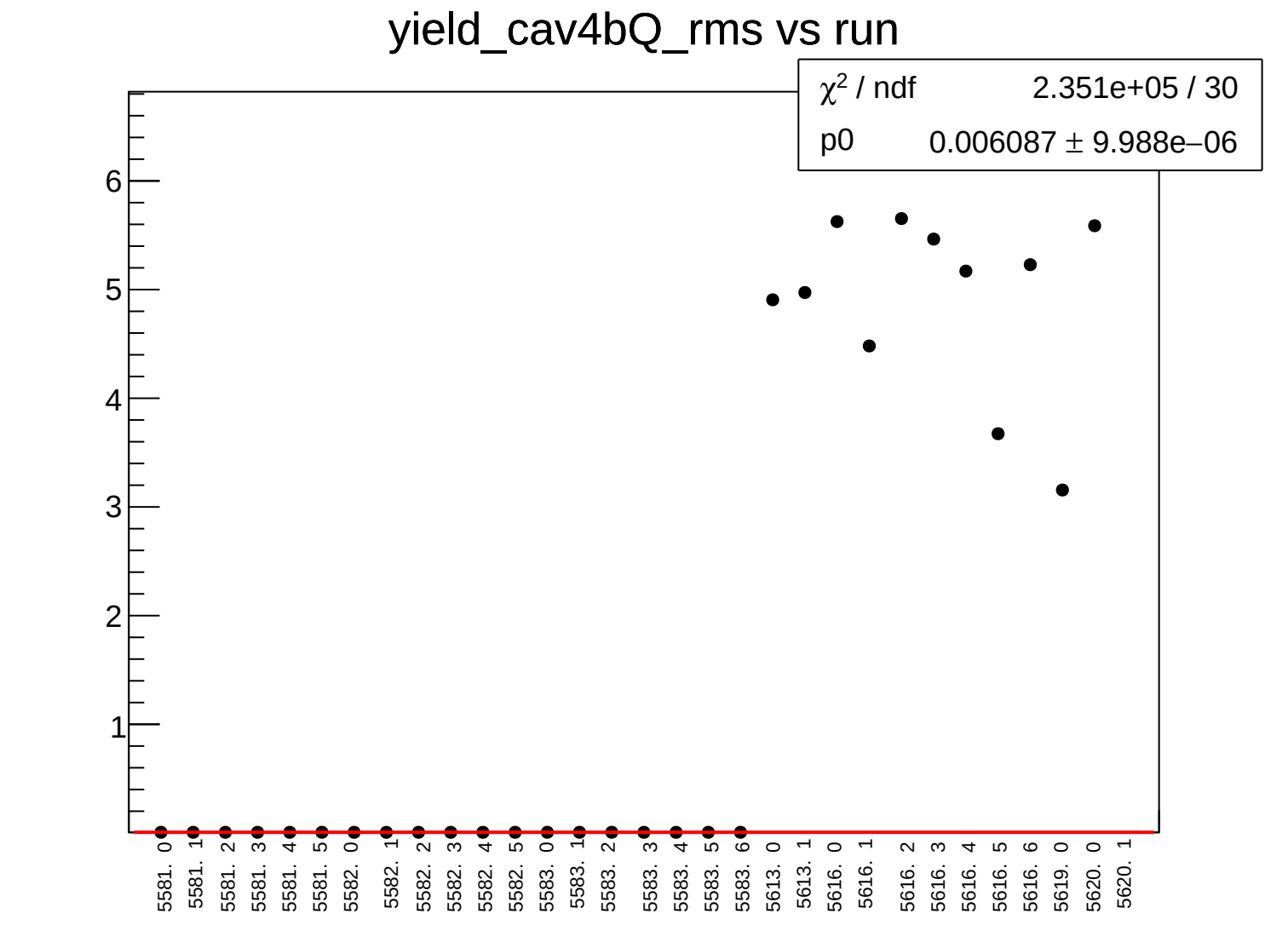

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.899e+06 / 30
p0 147.6 ± 0.001047
150
148
146
144
142
140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −9.434
Std Dev 26.86
600
400
200
0
−200
−400

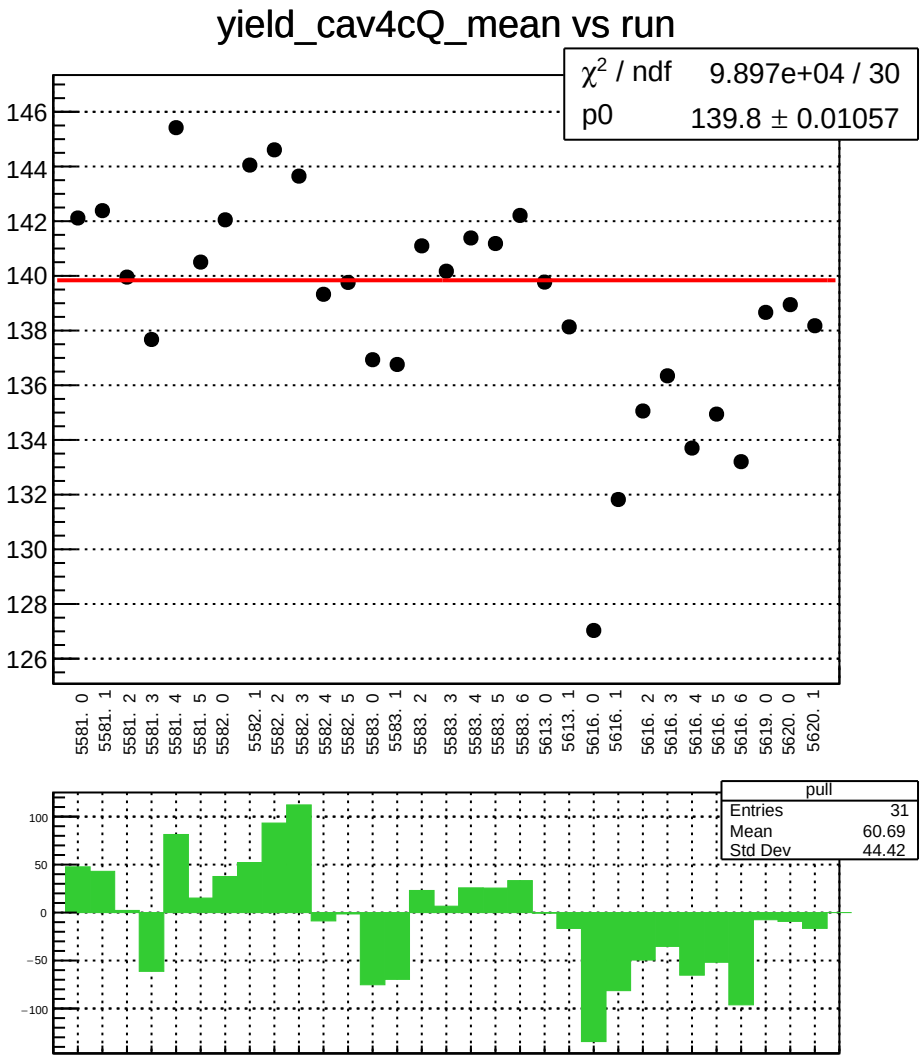

pull1D
Entries 31
Mean −0.7213
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

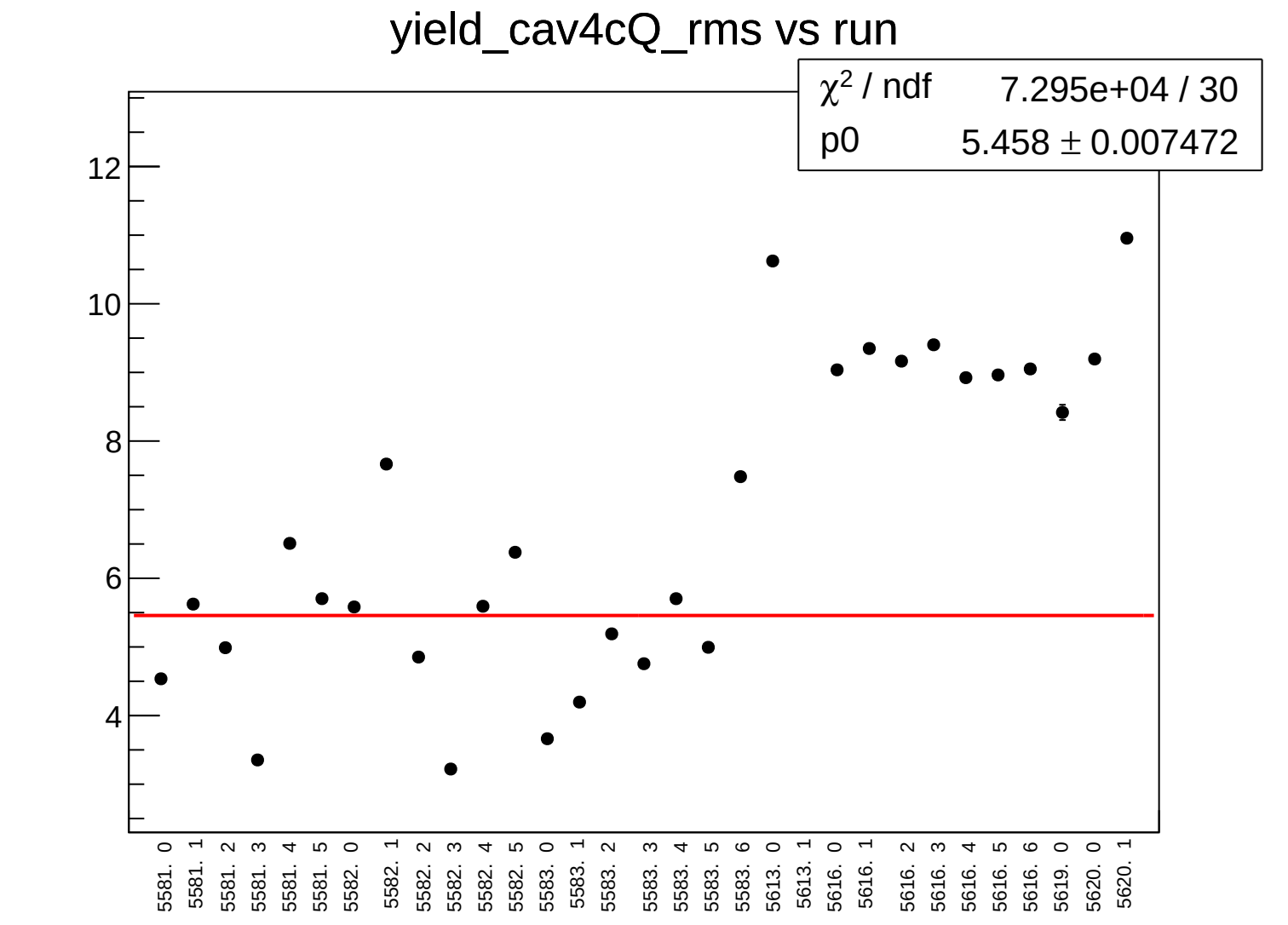

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.074e+05 / 30
p0 0.5231 ± 0.0007405
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

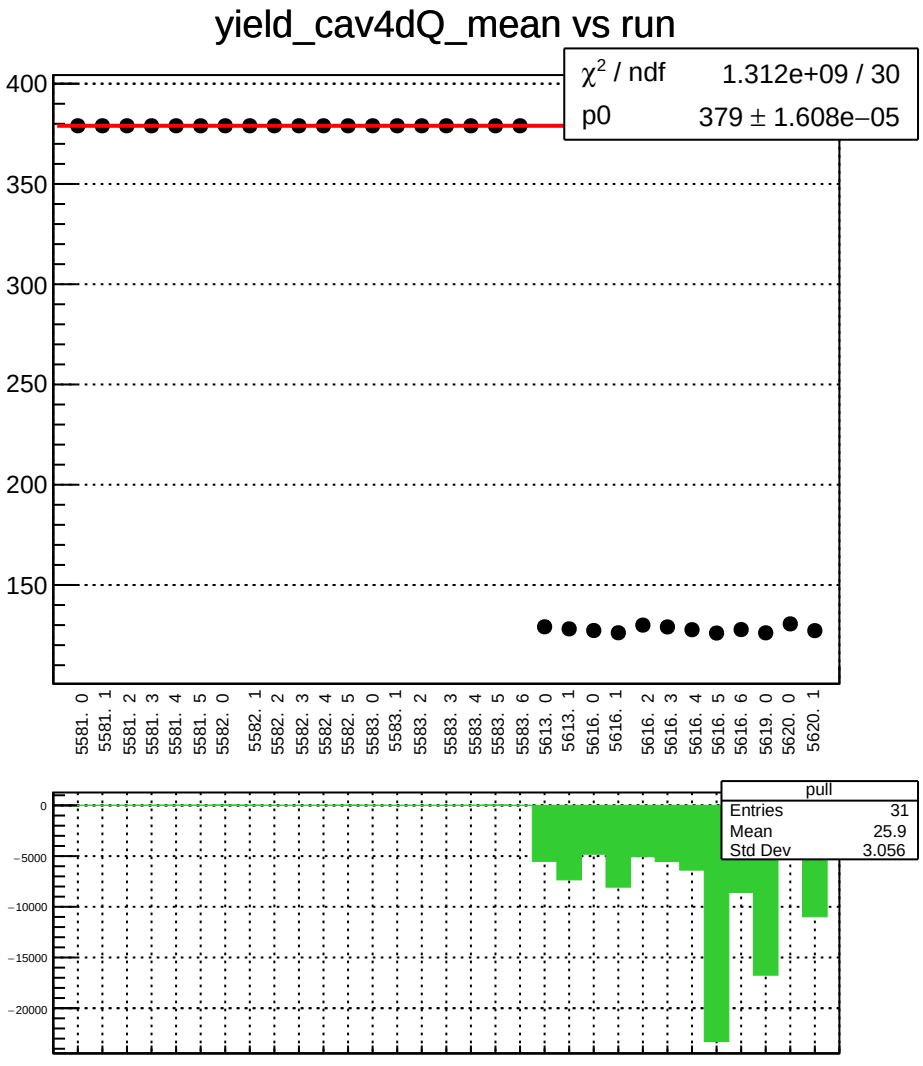

yield_cav4bQ_mean vs run
χ² / ndf 4.168e+08 / 30
p0 403 ± 1.412e−05
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.94
Std Dev 3.413
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

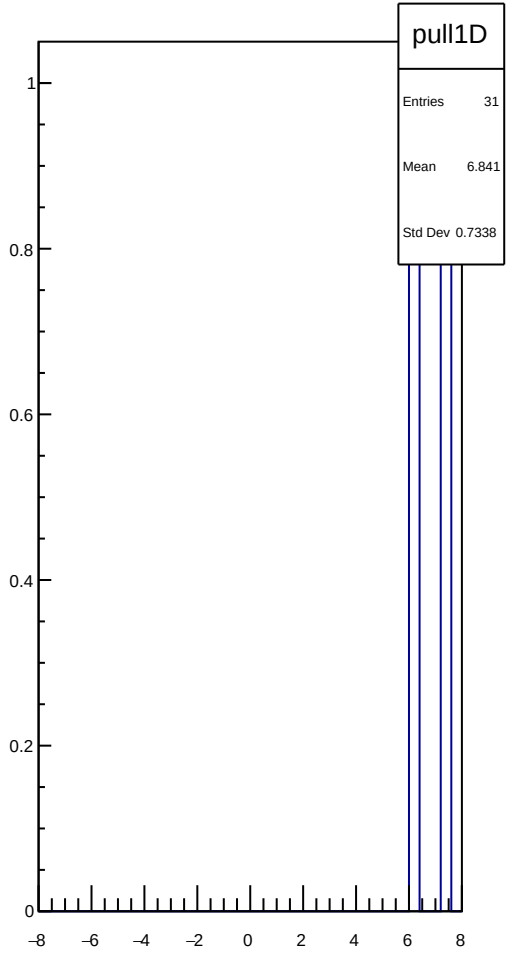

pull1D
Entries 31
Mean 0.1565
Std Dev 1.582
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

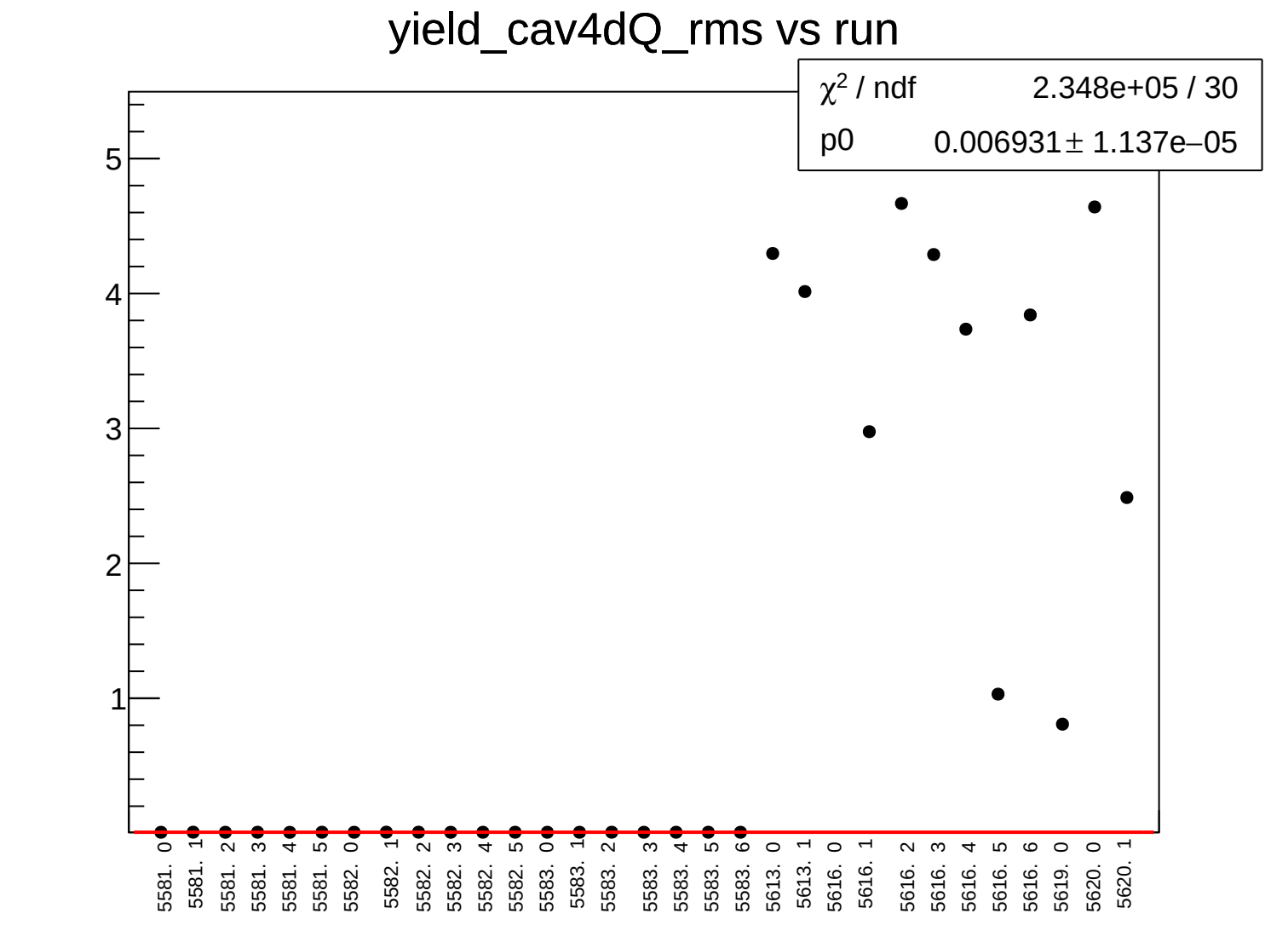

yield_cav4bQ_rms vs run
χ² / ndf 2.351e+05 / 30
p0 0.006087 ± 9.988e−06
6
5
4
3
2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

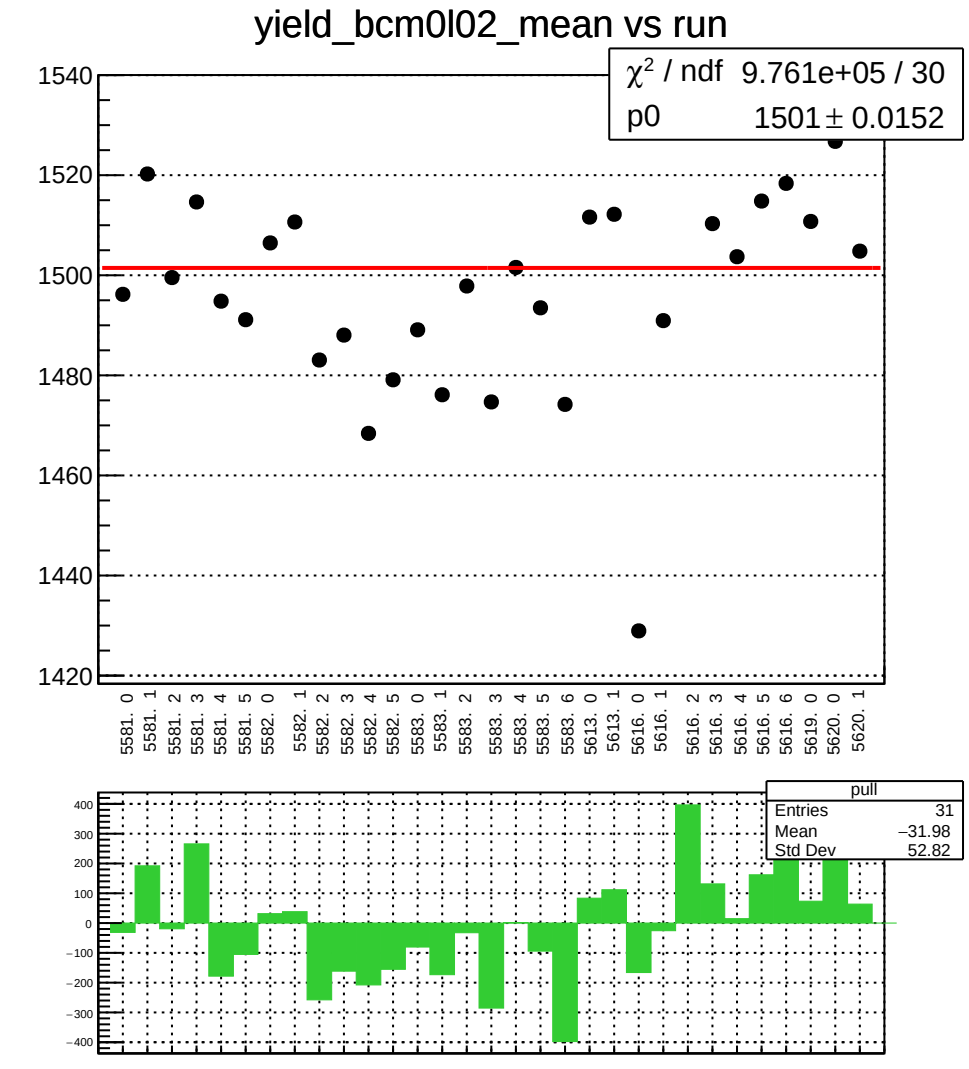

yield_cav4cQ_mean vs run
χ² / ndf 9.897e+04 / 30
p0 139.8 ± 0.01057
146
144
142
140
138
136
134
132
130
128
126
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 60.69
Std Dev 44.42
100
50
0
−50
−100
pull1D
Entries 31
Mean −0.1237
Std Dev 4.624
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

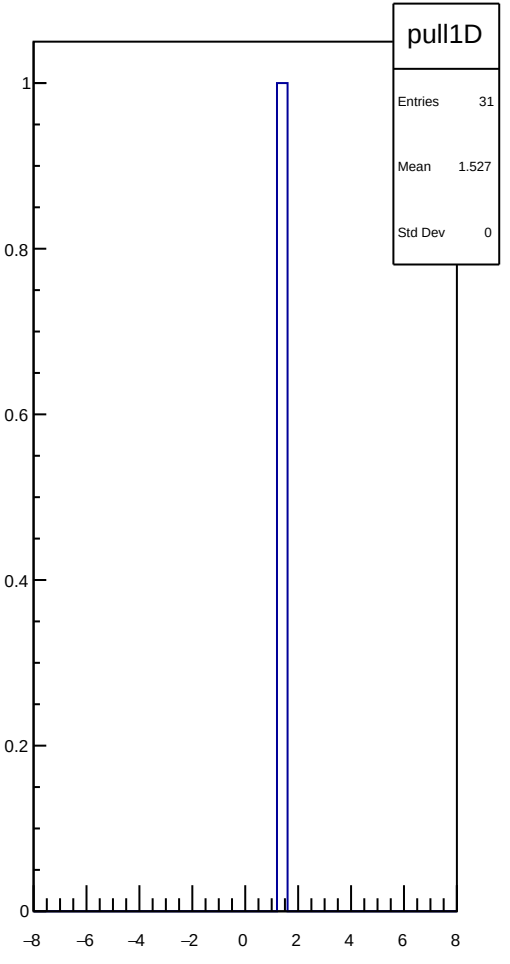

yield_cav4cQ_rms vs run
χ² / ndf 7.295e+04 / 30
p0 5.458 ± 0.007472
12
10
8
6
4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

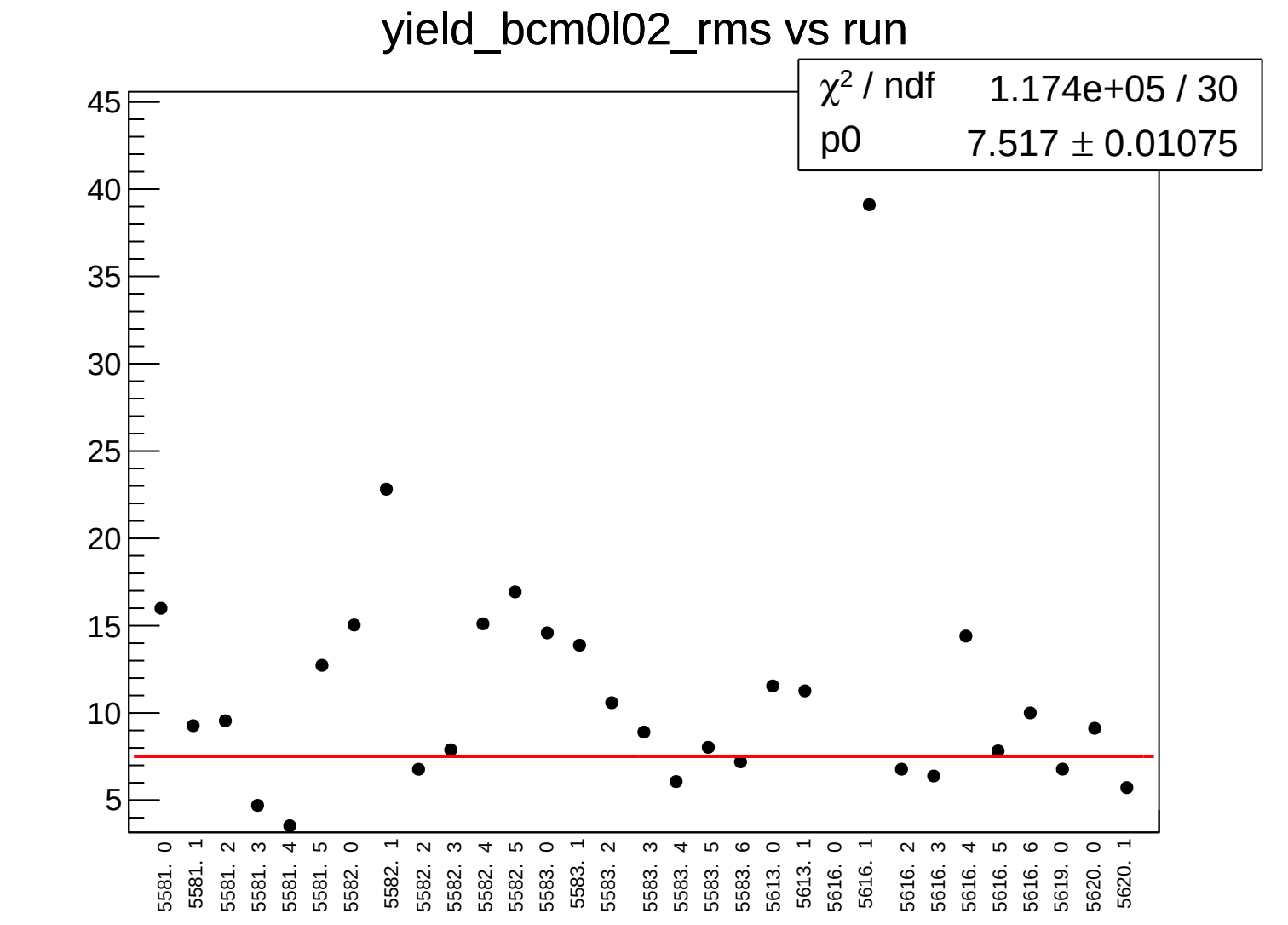

yield_cav4dQ_mean vs run
χ² / ndf 1.312e+09 / 30
p0 379 ± 1.608e−05
400
350
300
250
200
150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 25.9
Std Dev 3.056
0
−5000
−10000
−15000
−20000

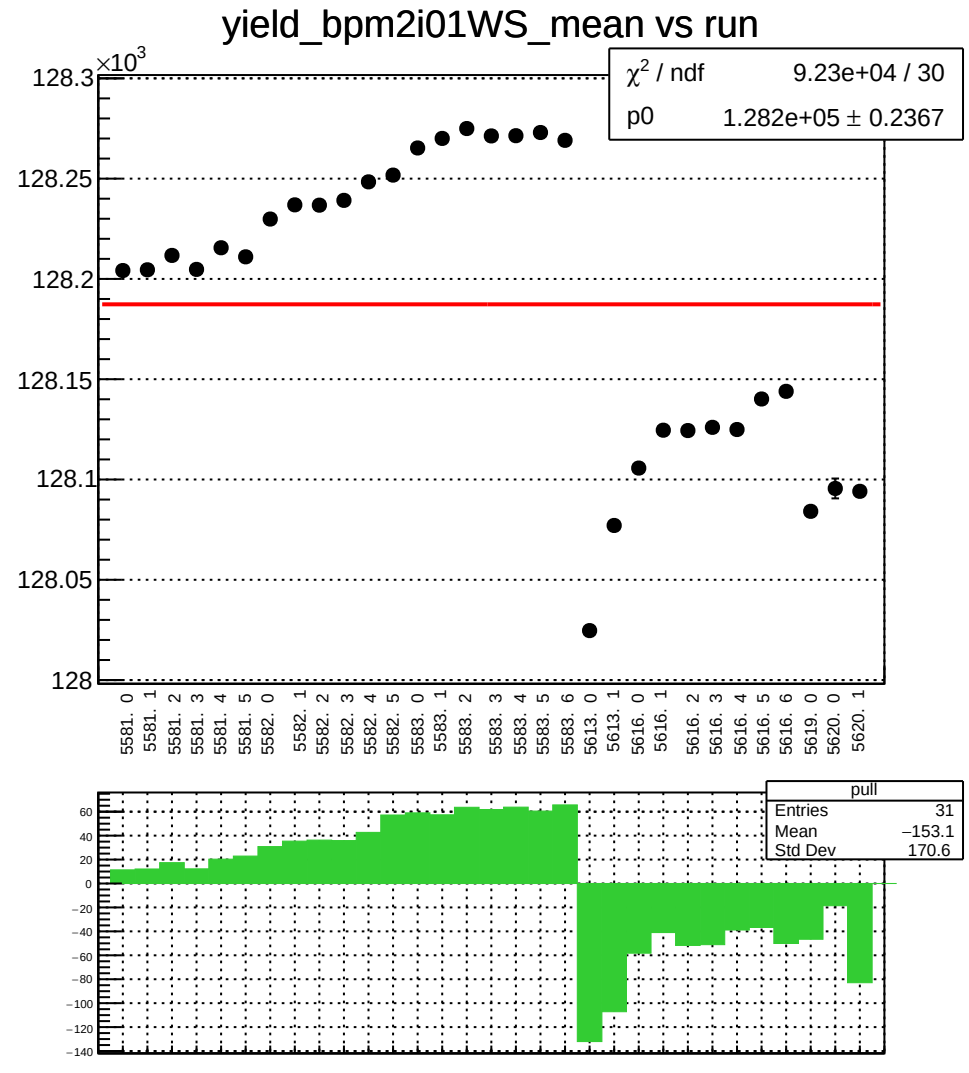

pull1D
Entries 31
Mean 6.841
Std Dev 0.7338
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

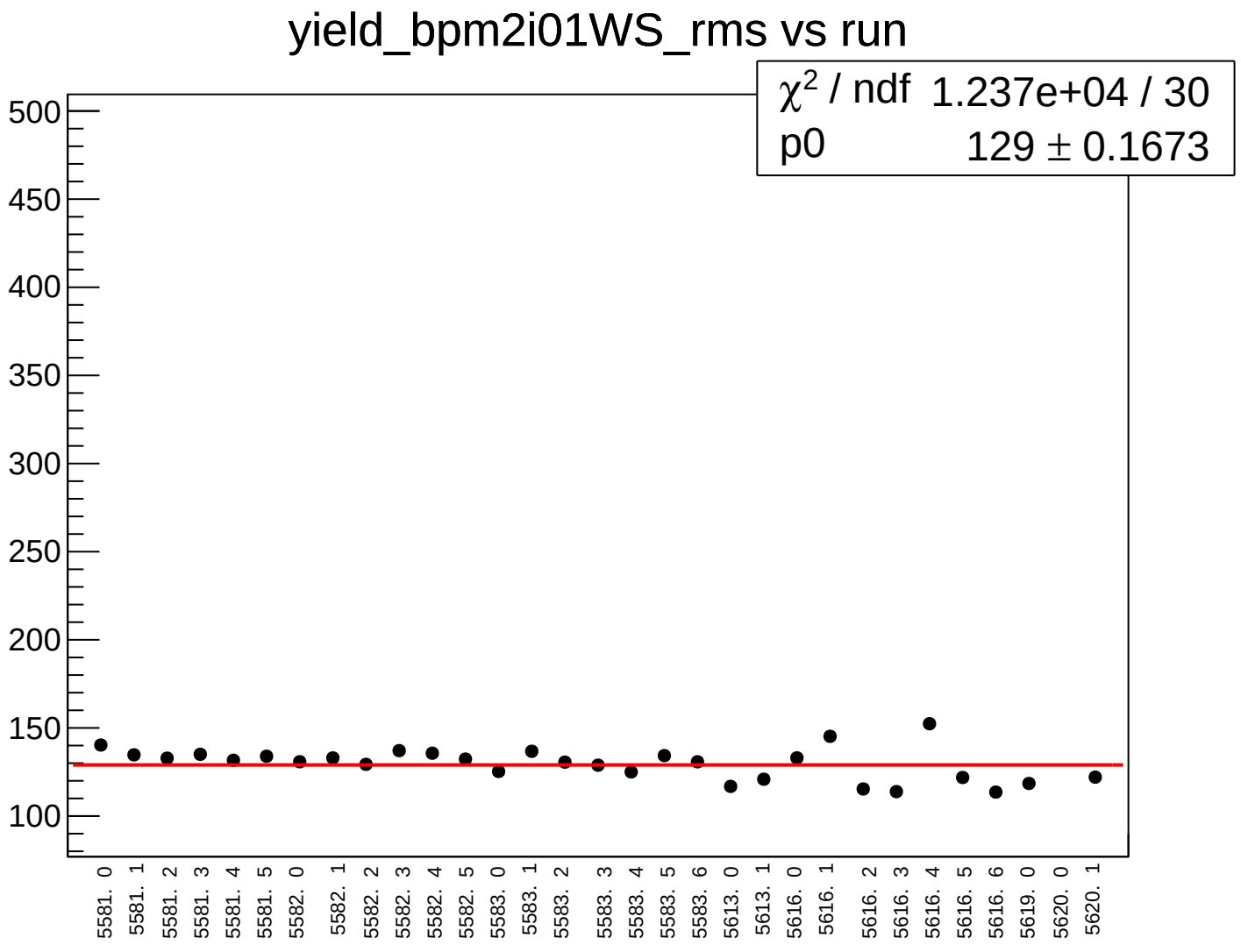

yield_cav4dQ_rms vs run
χ² / ndf 2.348e+05 / 30
p0 0.006931 ± 1.137e−05
5
4
3
2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

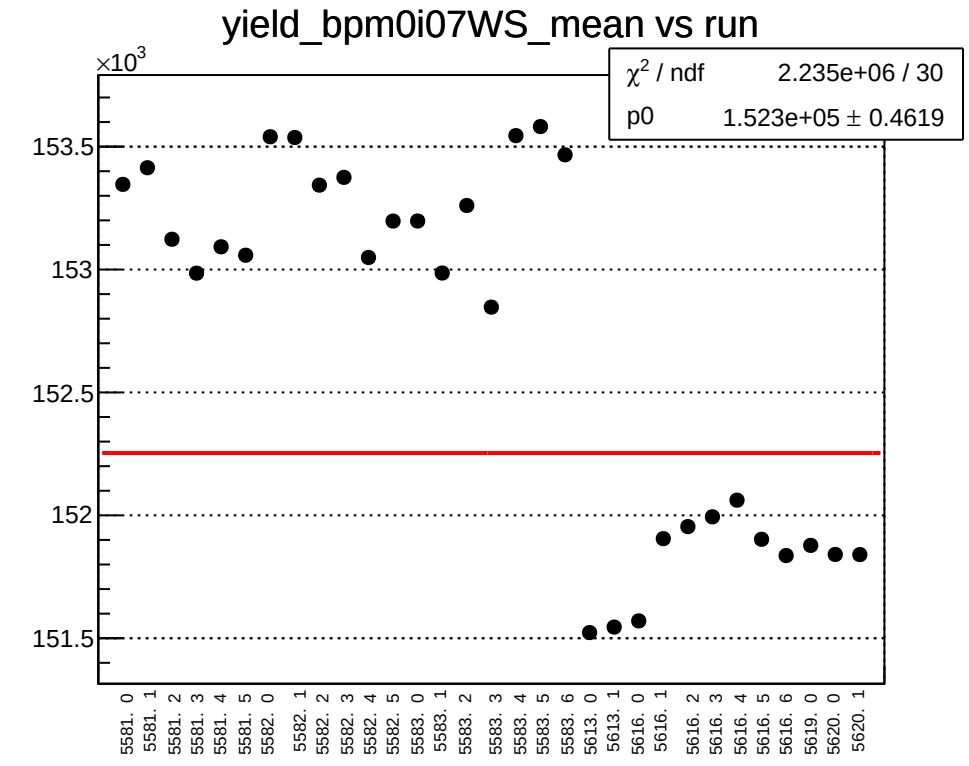

yield_bcm0l02_mean vs run
χ² / ndf 9.761e+05 / 30
p0 1501 ± 0.0152
1540
1520
1500
1480
1460
1440
1420
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −31.98
Std Dev 52.82
400
300
200
100
0
−100
−200
−300
−400

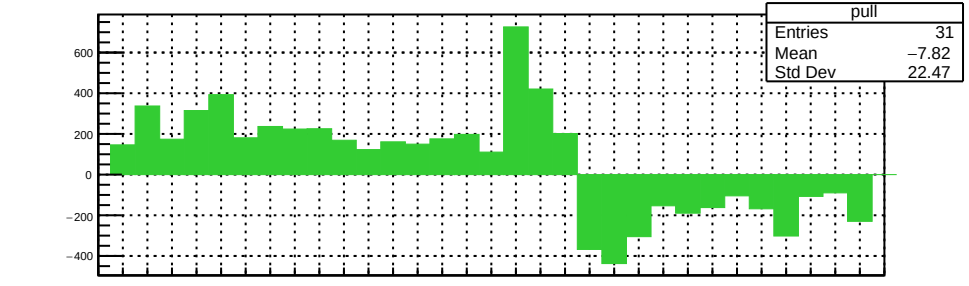

pull1D
Entries 31
Mean 1.527
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

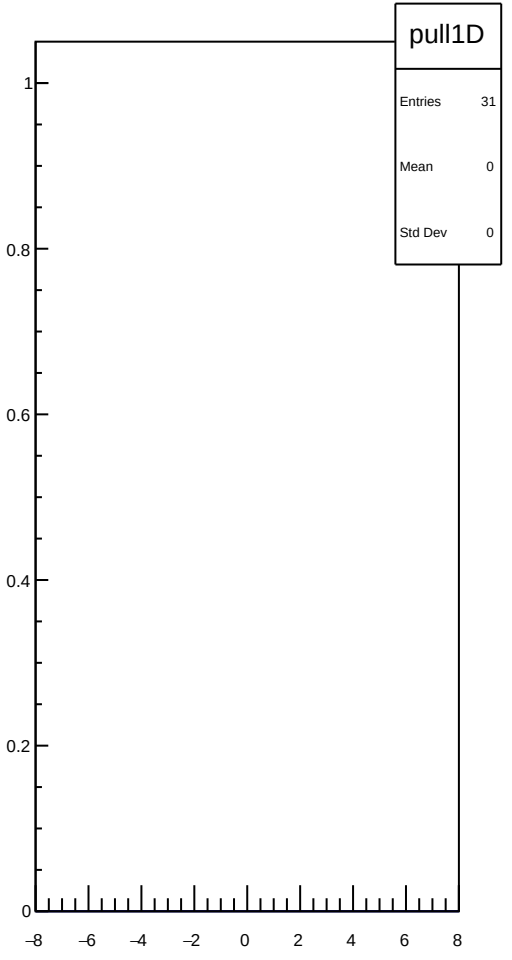

yield_bcm0l02_rms vs run
χ² / ndf 1.174e+05 / 30
p0 7.517 ± 0.01075
45
40
35
30
25
20
15
10
5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

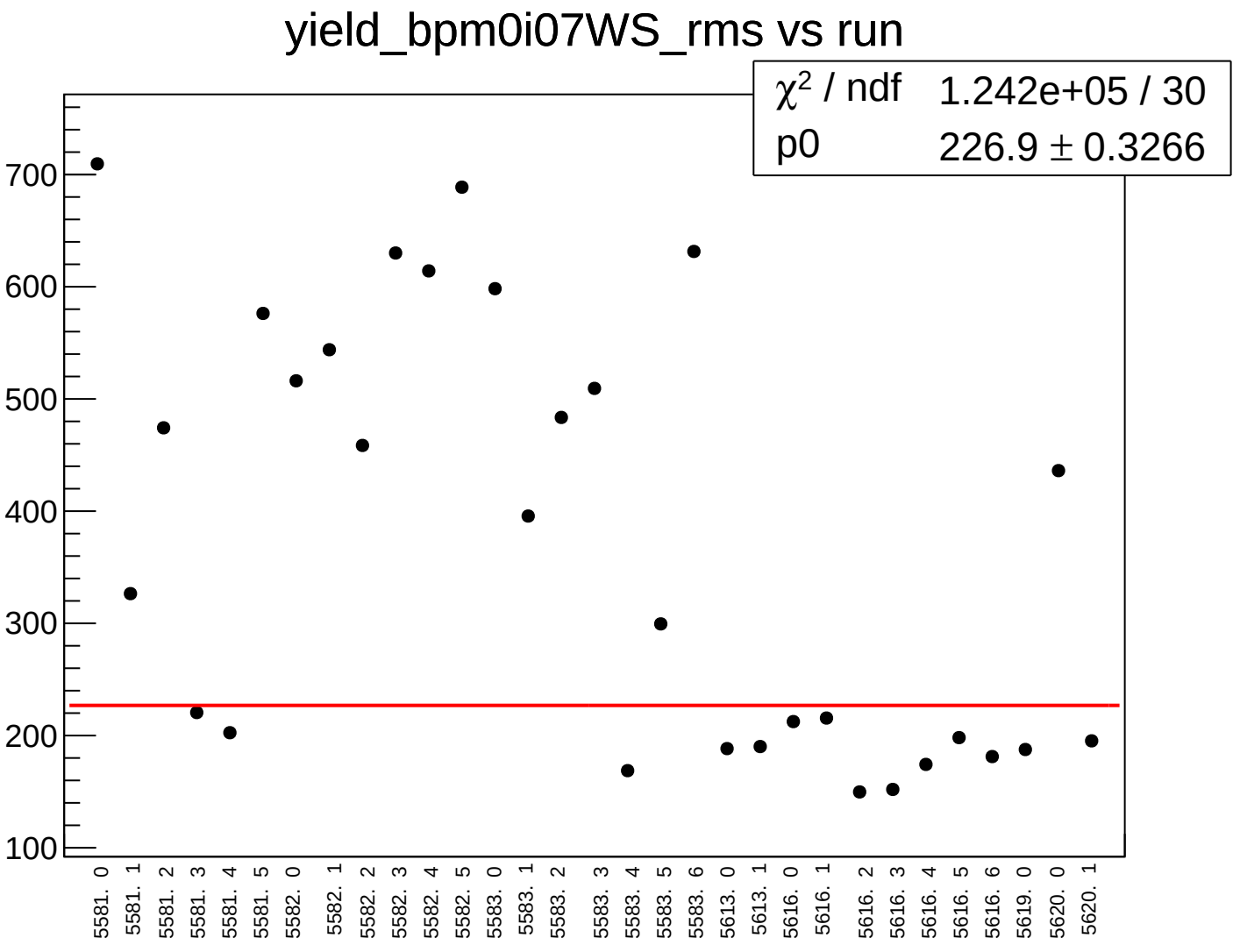

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 9.23e+04 / 30
p0 1.282e+05 ± 0.2367
128.3
128.25
128.2
128.15
128.1
128.05
128
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −153.1
Std Dev 170.6
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
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

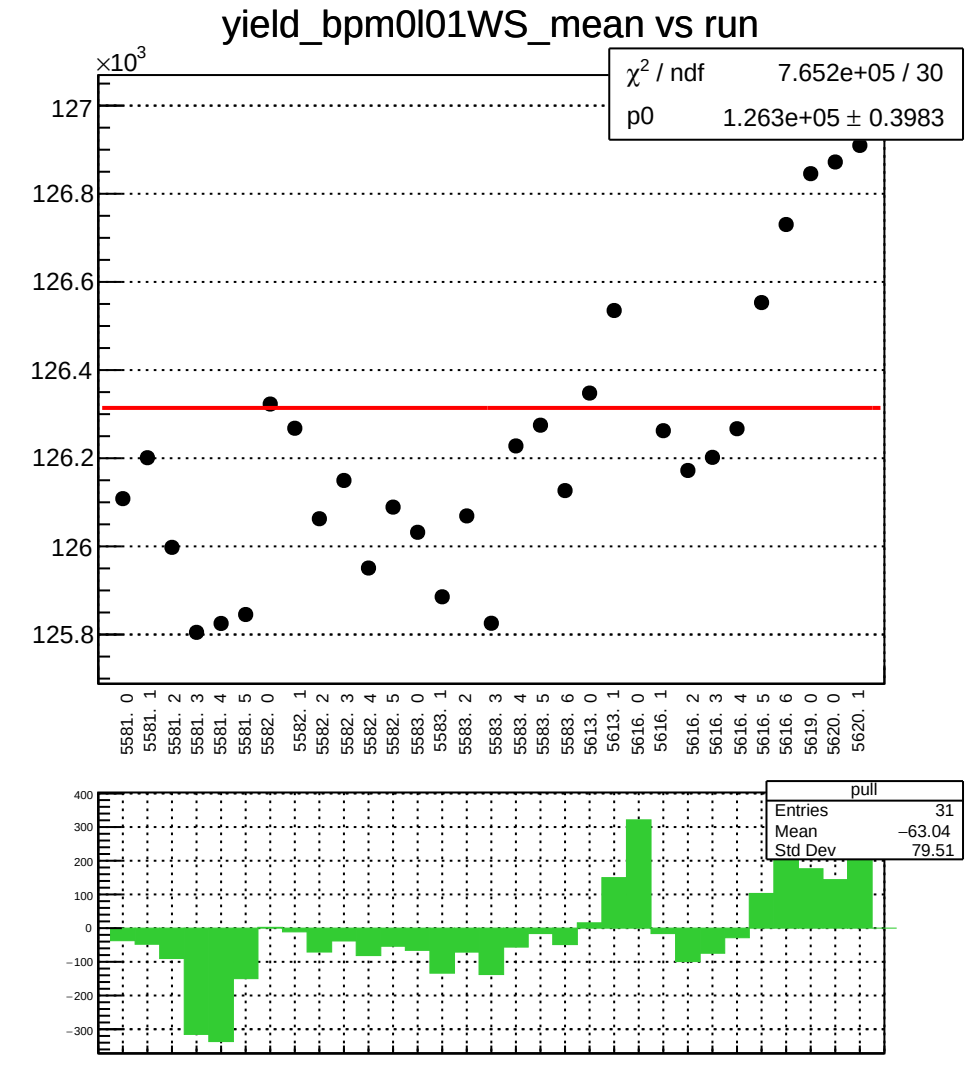

yield_bpm2i01WS_rms vs run
χ² / ndf 1.237e+04 / 30
p0 129 ± 0.1673
500
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

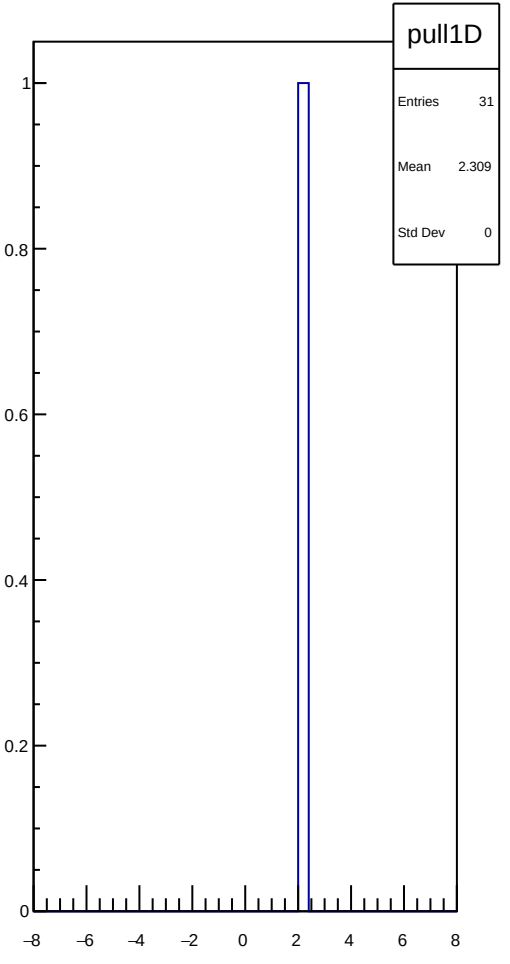

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.235e+06 / 30
p0 1.523e+05 ± 0.4619
153.5
153
152.5
152
151.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

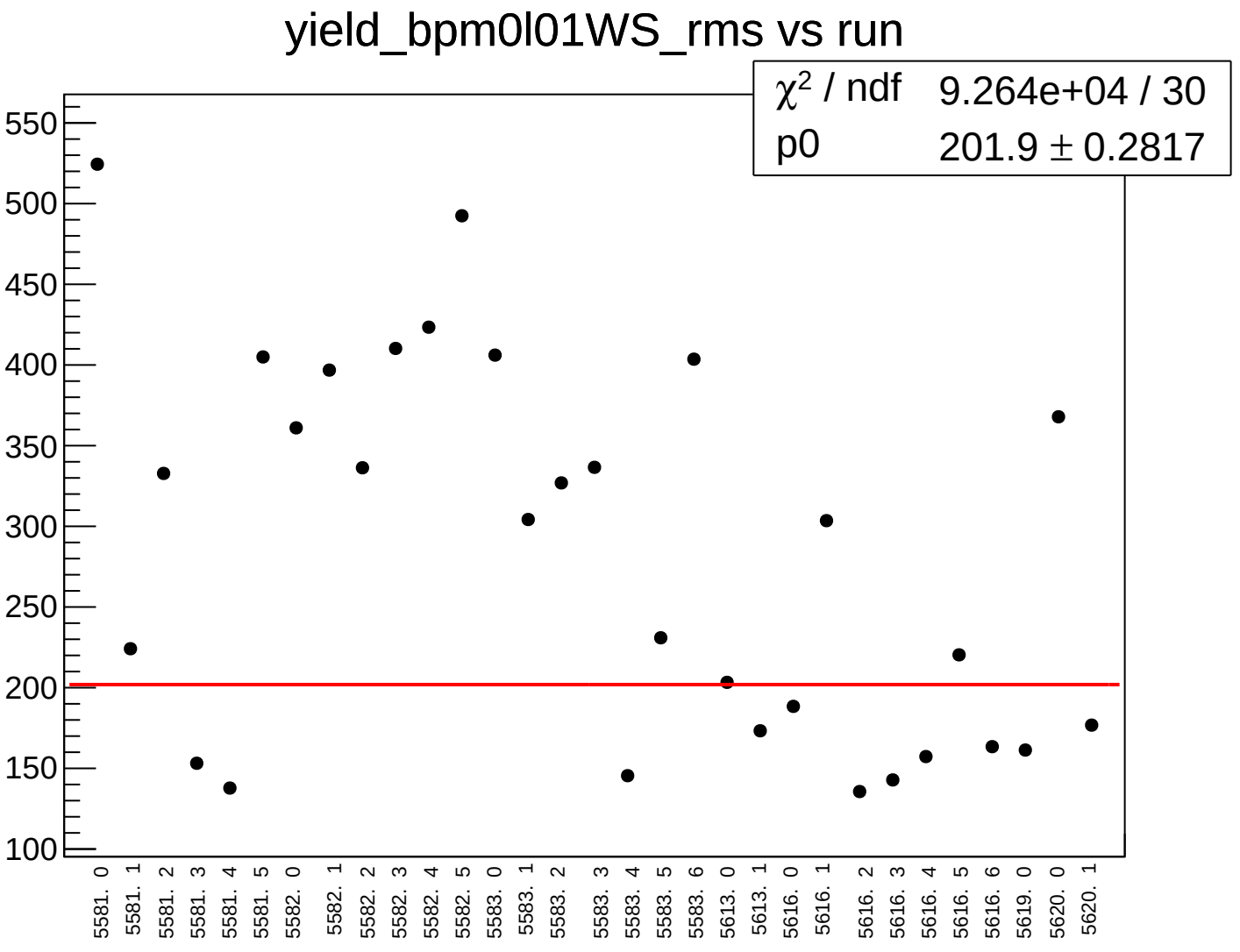

pull
Entries 31
Mean −7.82
Std Dev 22.47
600
400
200
0
−200
−400

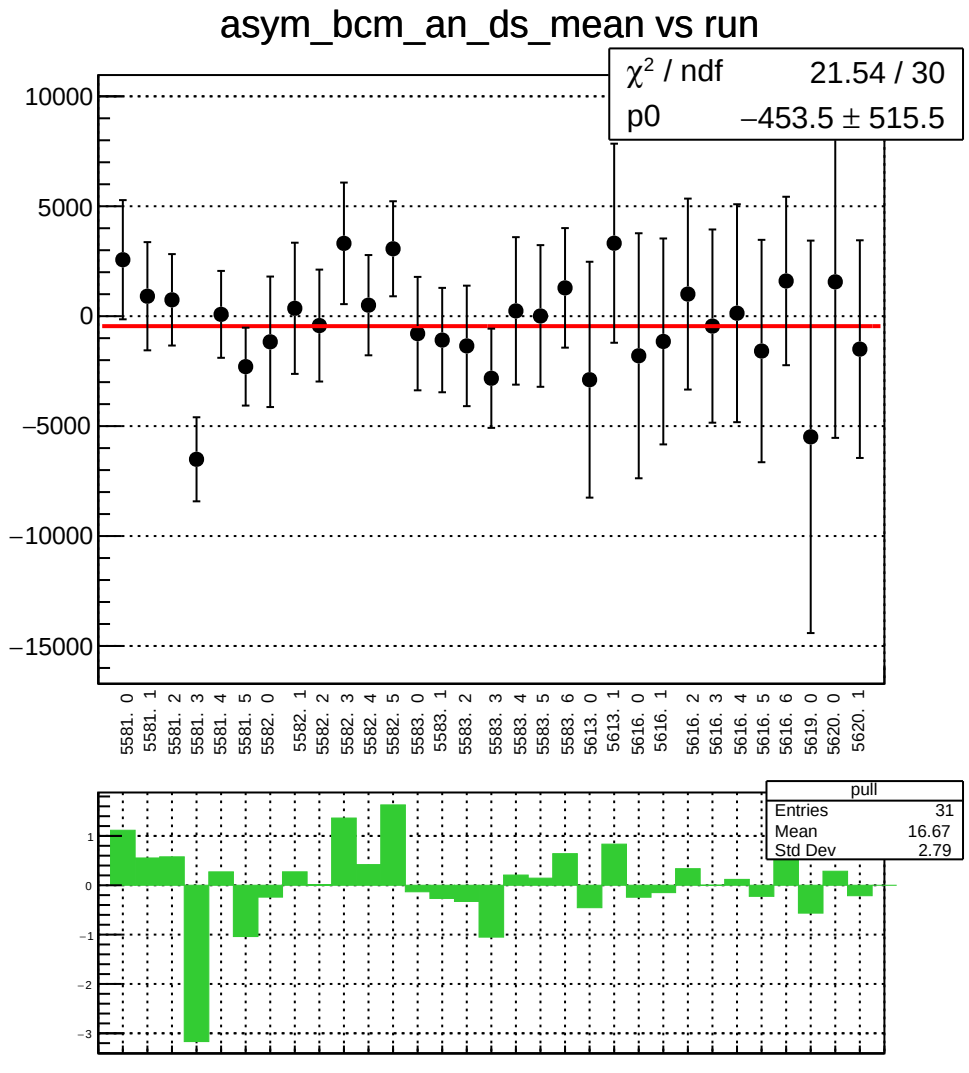

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

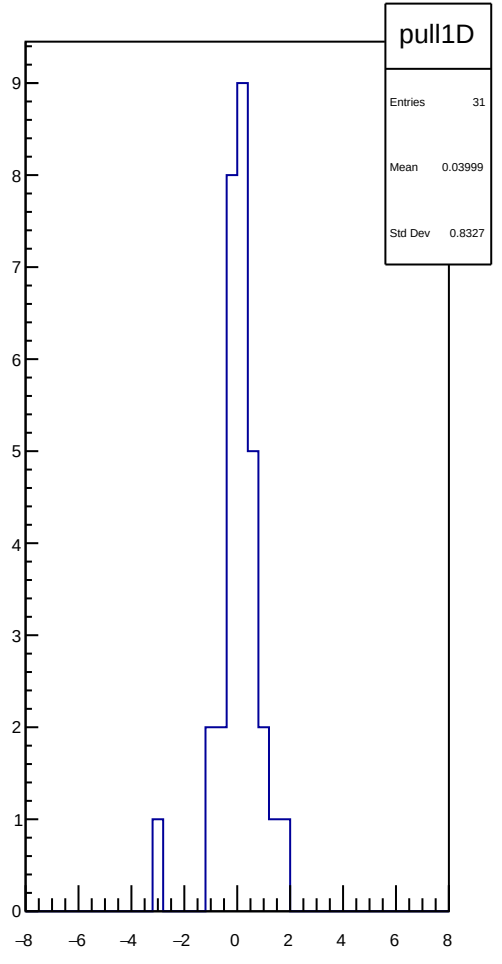

yield_bpm0i07WS_rms vs run
χ² / ndf 1.242e+05 / 30
p0 226.9 ± 0.3266
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

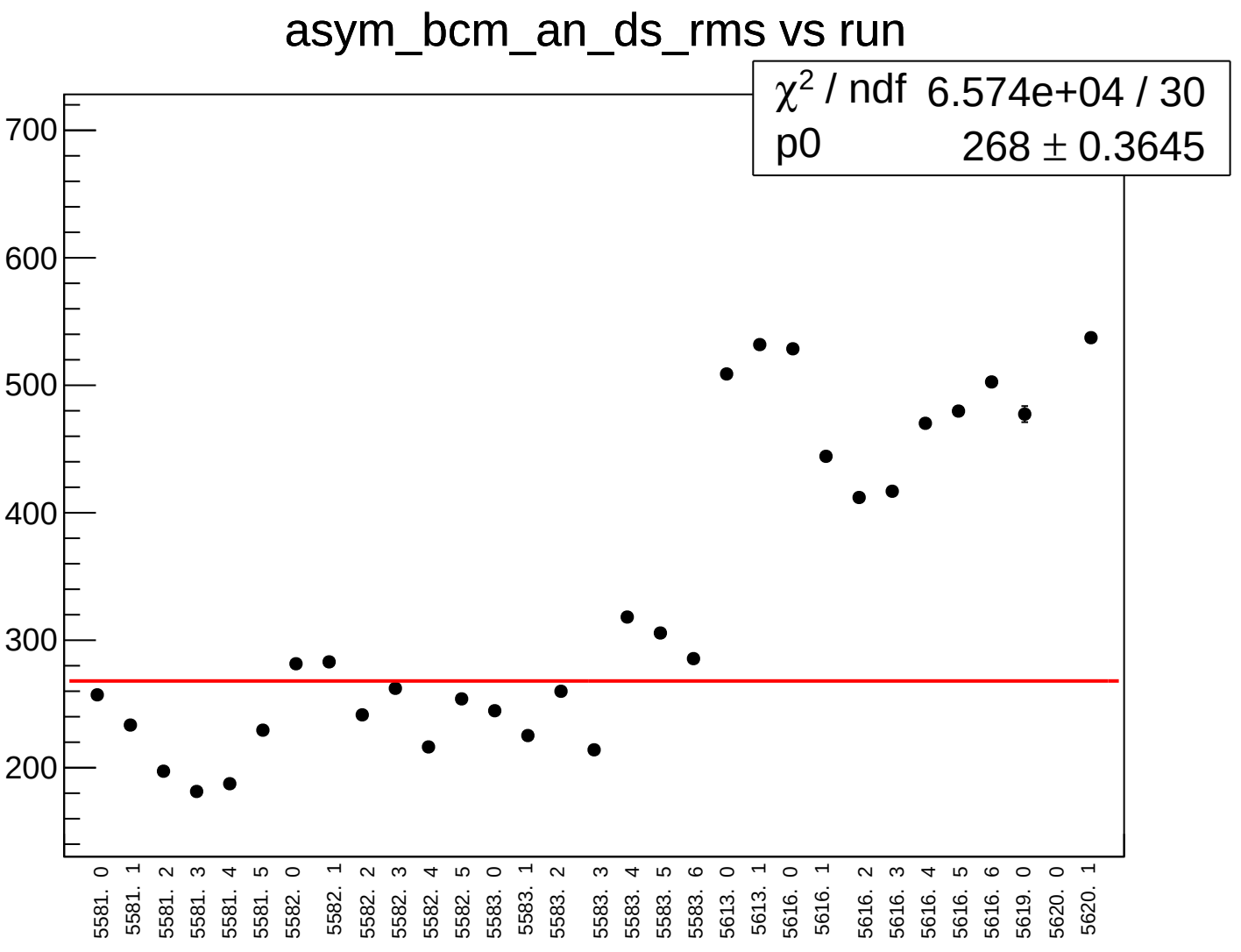

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 7.652e+05 / 30
p0 1.263e+05 ± 0.3983
127
126.8
126.6
126.4
126.2
126
125.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −63.04
Std Dev 79.51
400
300
200
100
0
−100
−200
−300

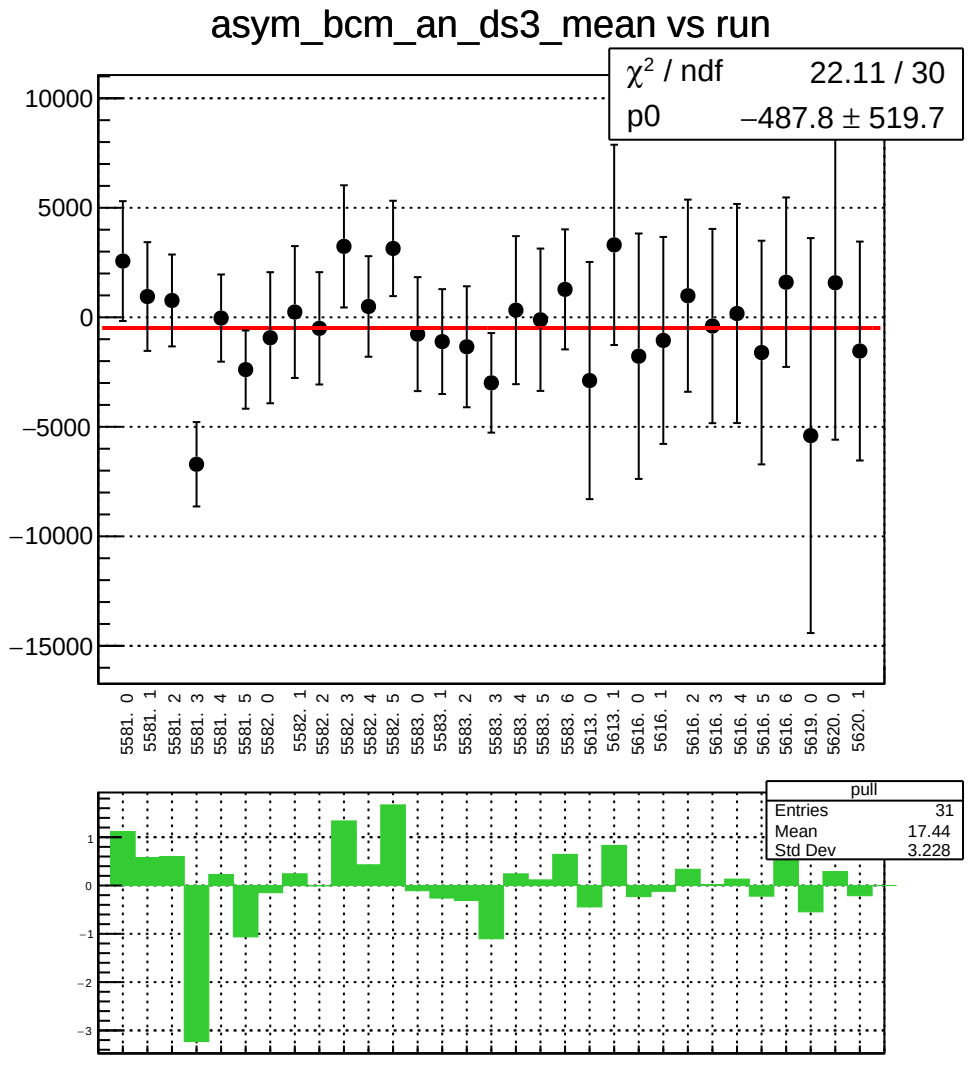

pull1D
Entries 31
Mean 2.309
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

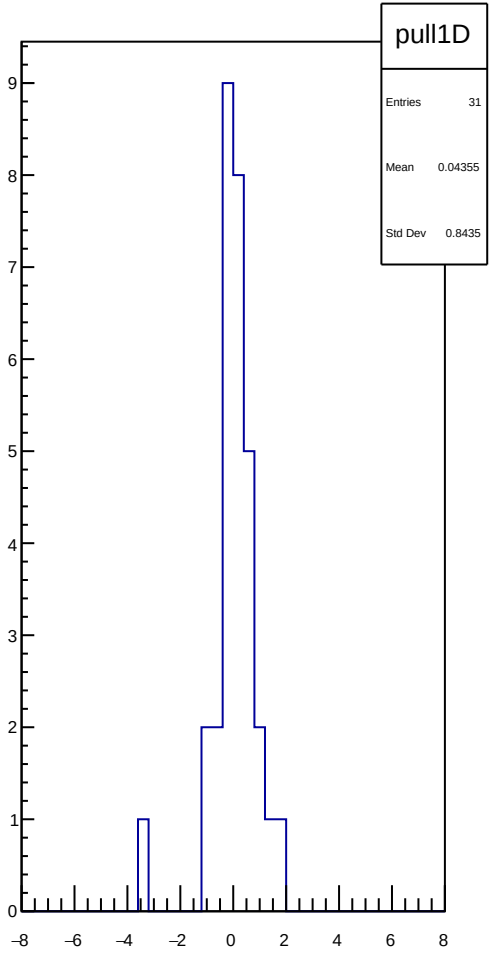

yield_bpm0l01WS_rms vs run
χ^2 / ndf 9.264e+04 / 30
p0 201.9 ± 0.2817
550
500
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

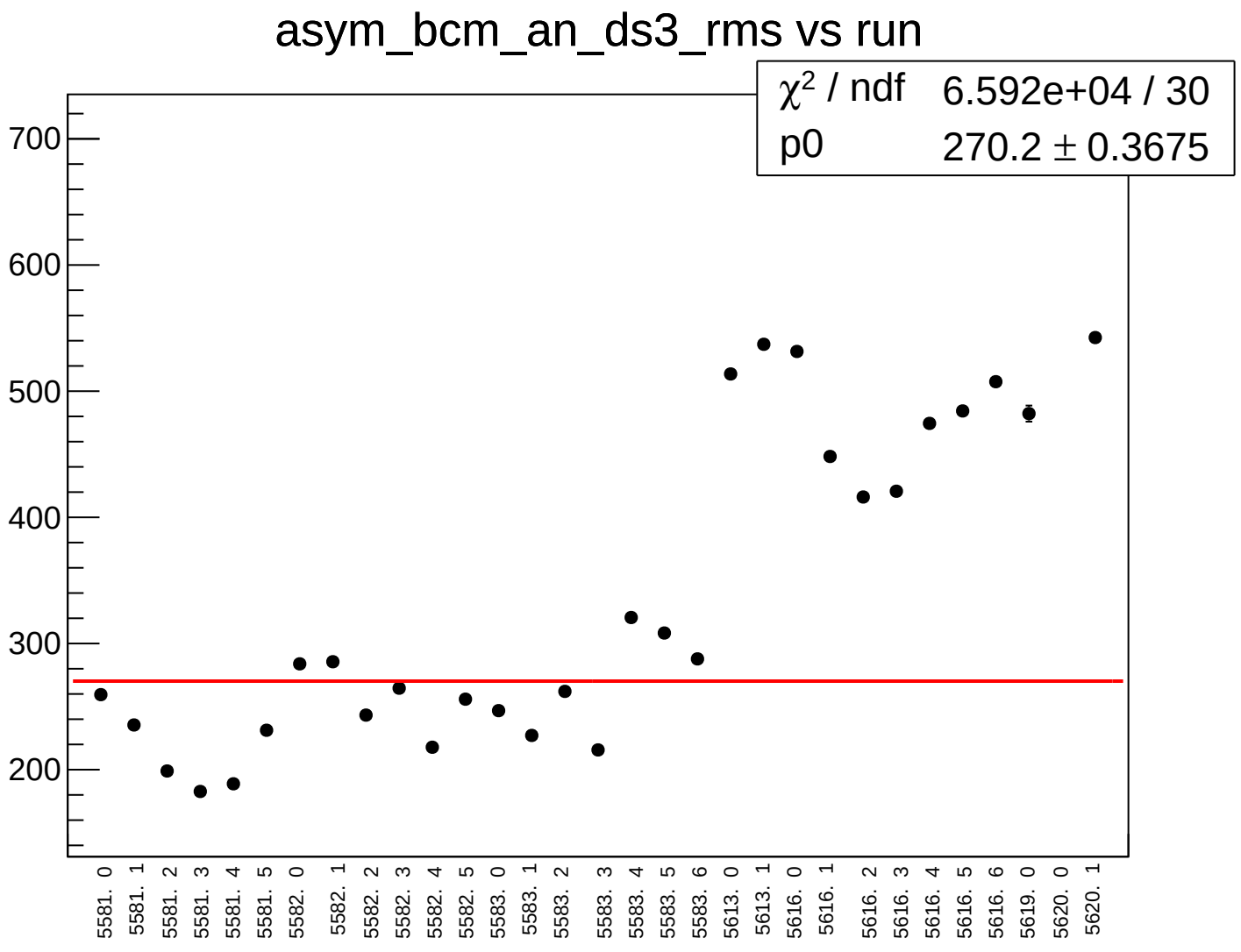

asym_bcm_an_ds_mean vs run
χ² / ndf 21.54 / 30
p0 −453.5 ± 515.5
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.67
Std Dev 2.79
1
0
−1
−2
−3

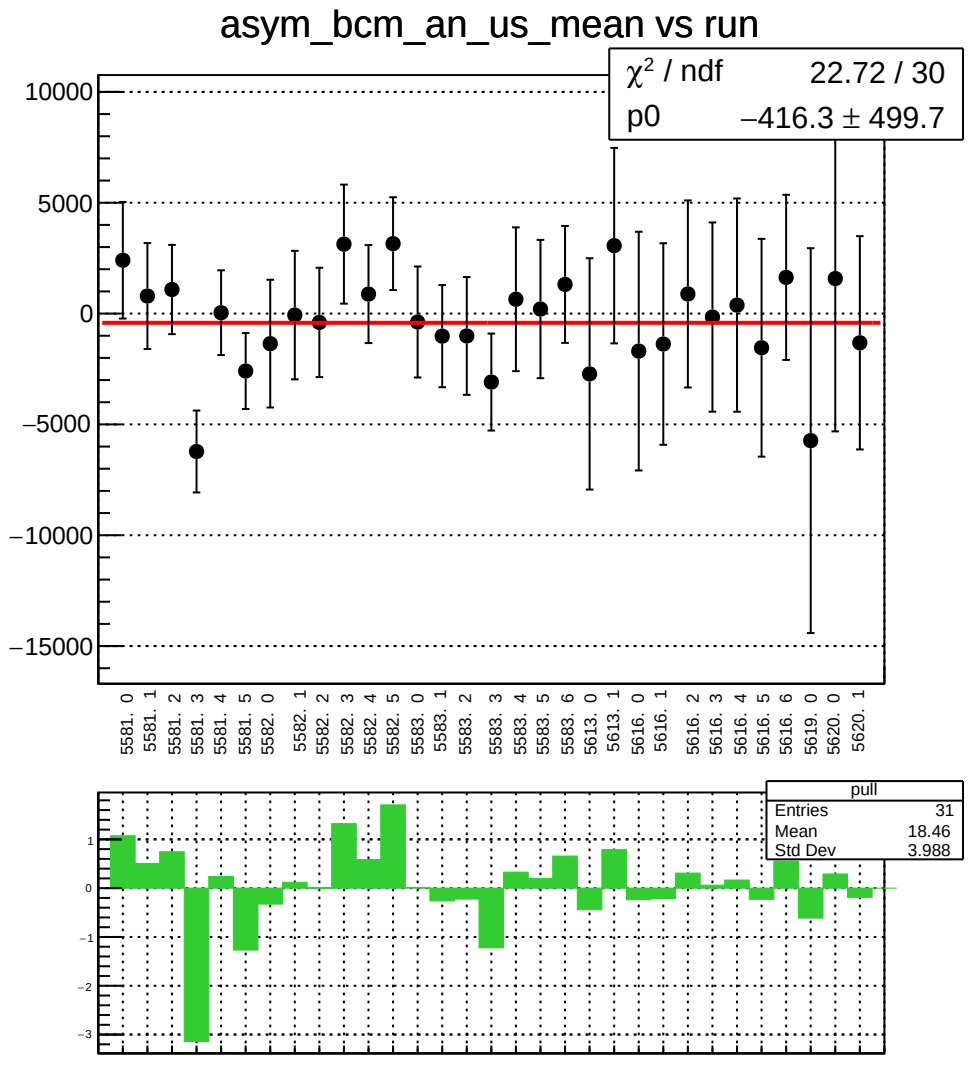

pull1D
Entries 31
Mean 0.03999
Std Dev 0.8327
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

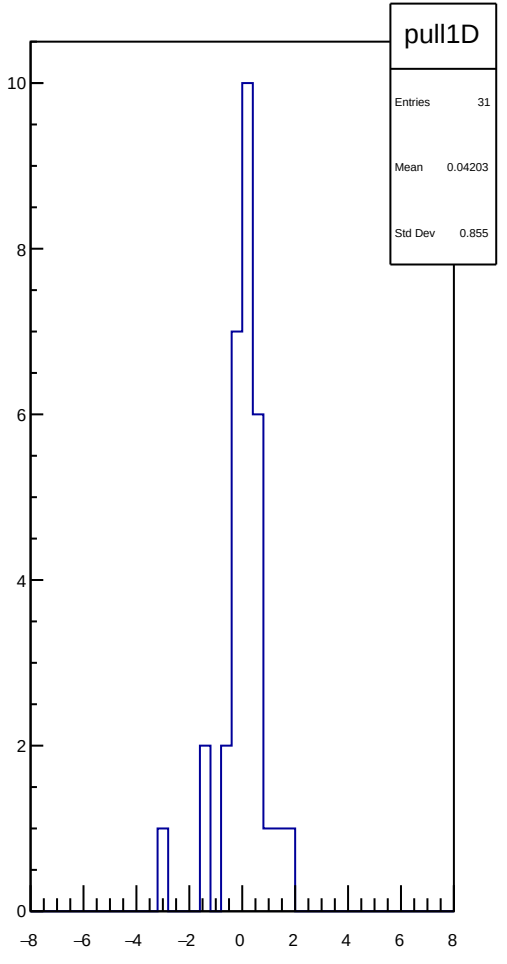

asym_bcm_an_ds_rms vs run
χ² / ndf 6.574e+04 / 30
p0 268 ± 0.3645
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

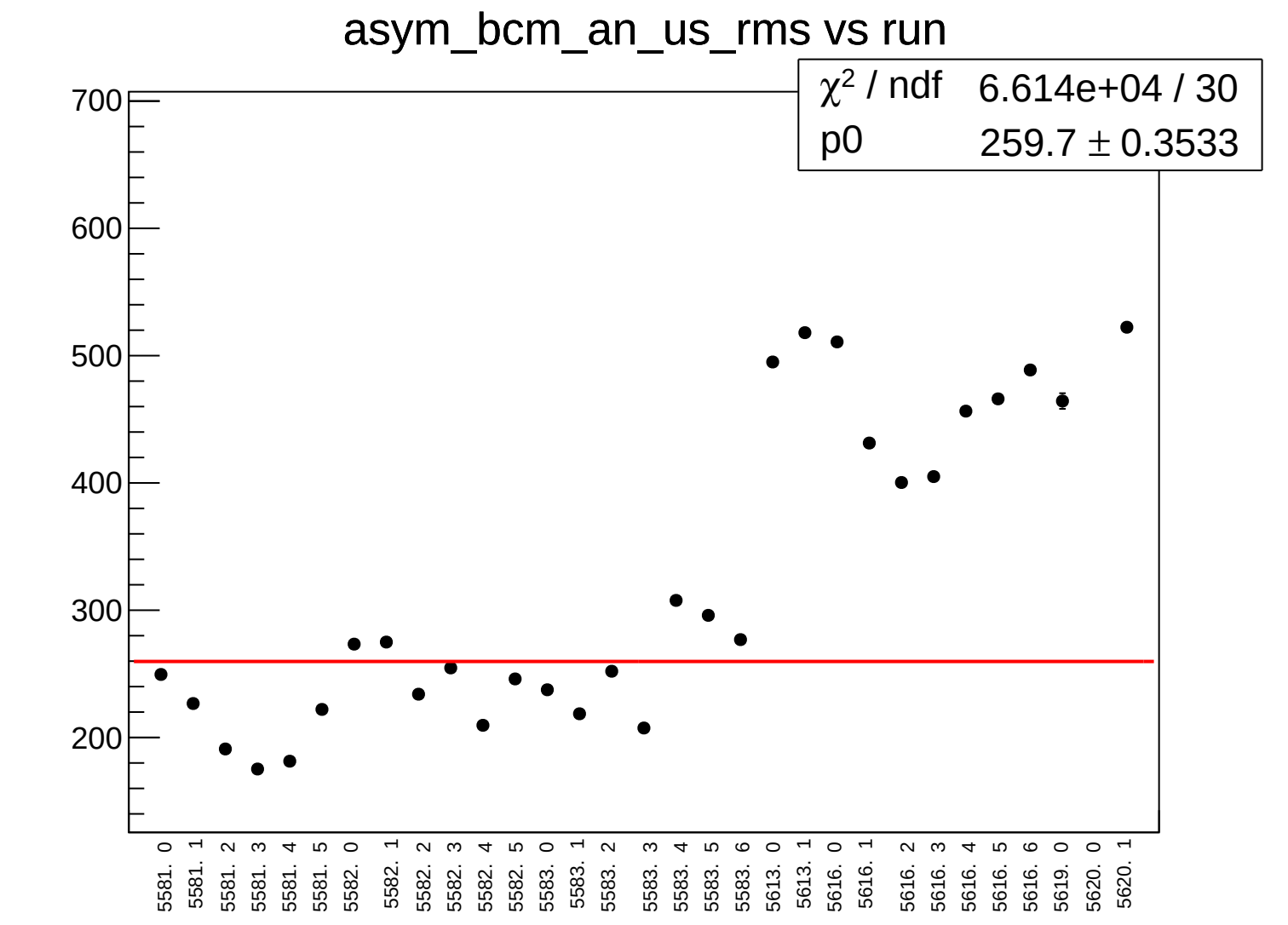

asym_bcm_an_ds3_mean vs run
χ² / ndf 22.11 / 30
p0 −487.8 ± 519.7
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.44
Std Dev 3.228
1
0
−1
−2
−3

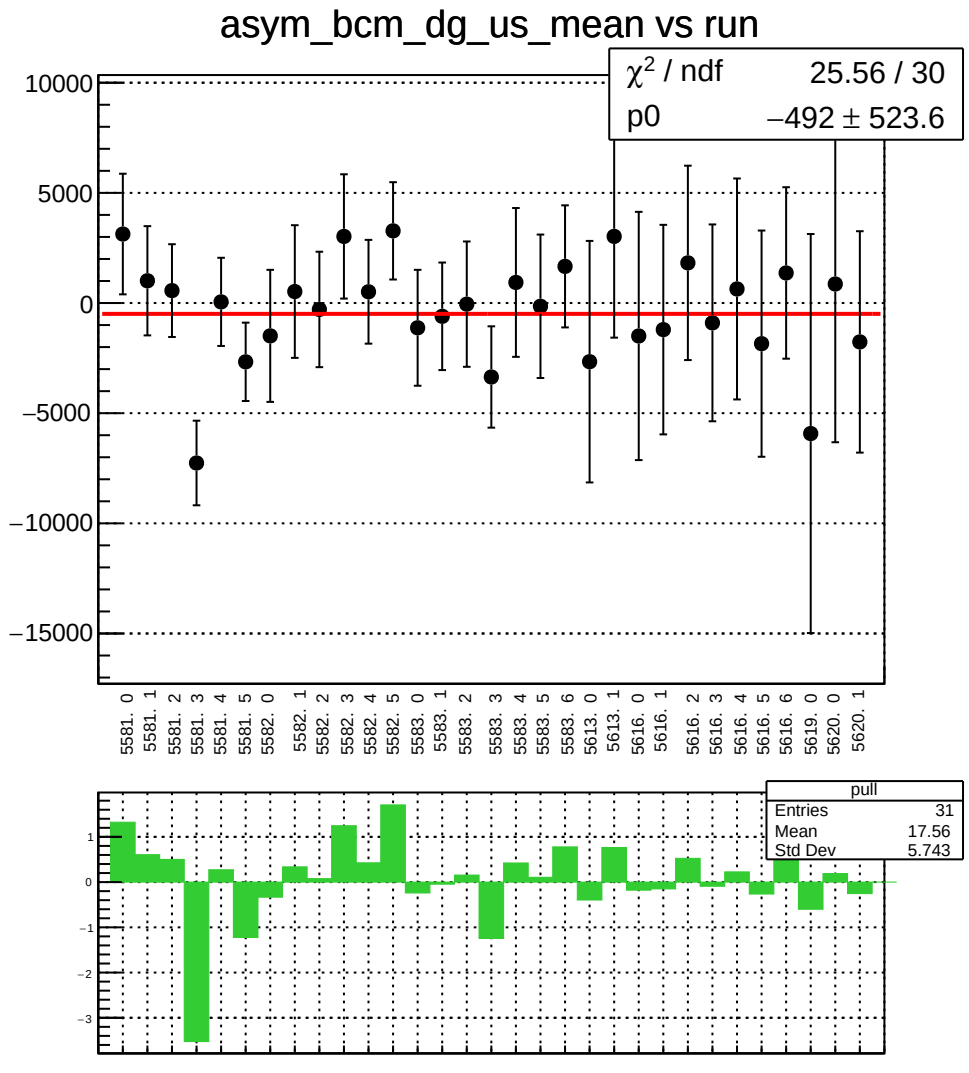

pull1D
Entries 31
Mean 0.04355
Std Dev 0.8435
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

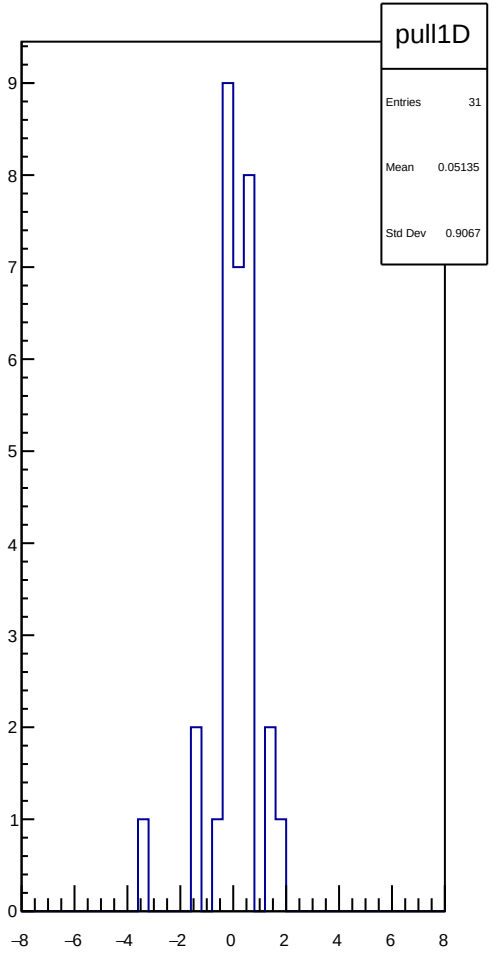

asym_bcm_an_ds3_rms vs run
χ² / ndf 6.592e+04 / 30
p0 270.2 ± 0.3675
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

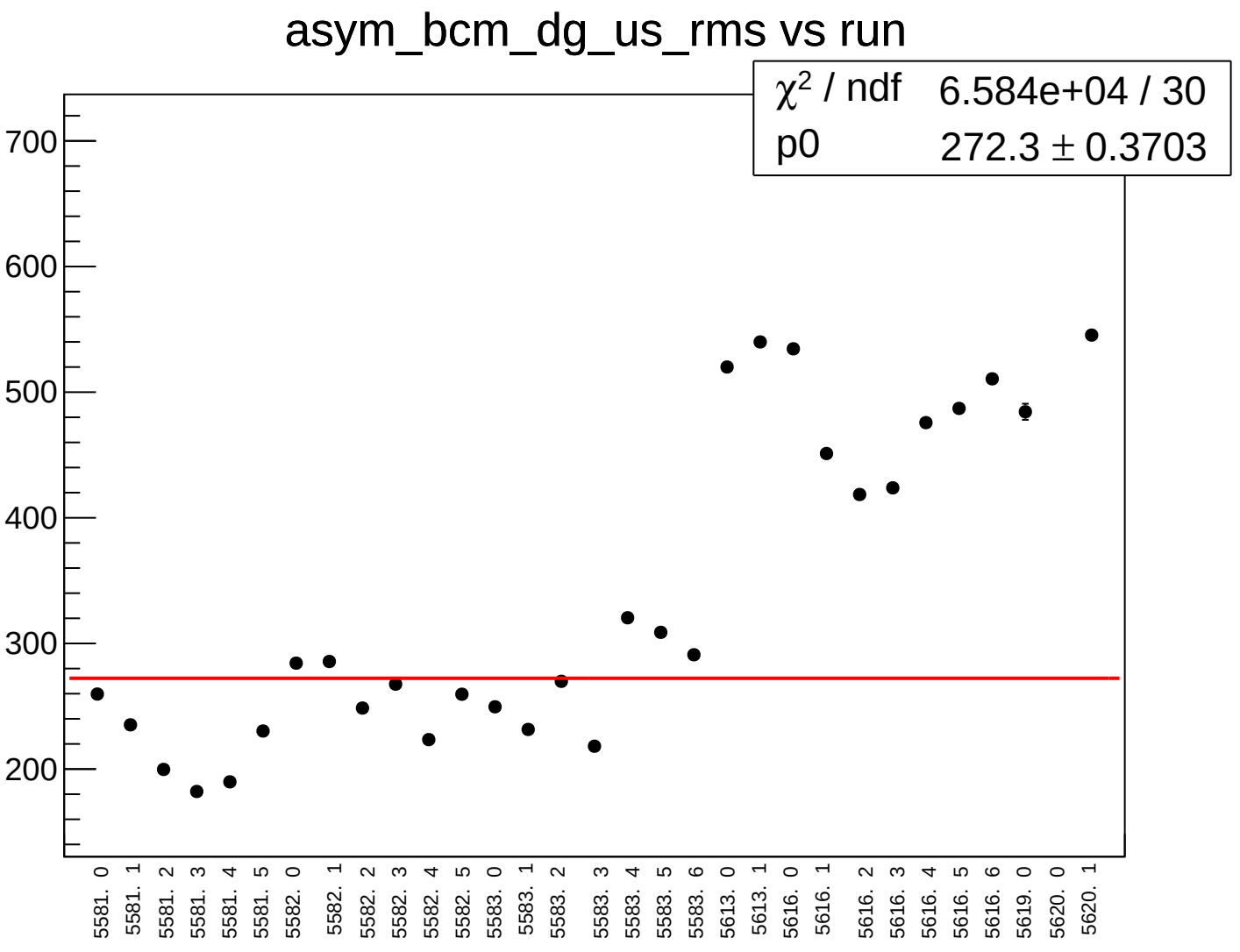

asym_bcm_an_us_mean vs run
χ² / ndf 22.72 / 30
p0 −416.3 ± 499.7
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 18.46
Std Dev 3.988
1
0
−1
−2
−3

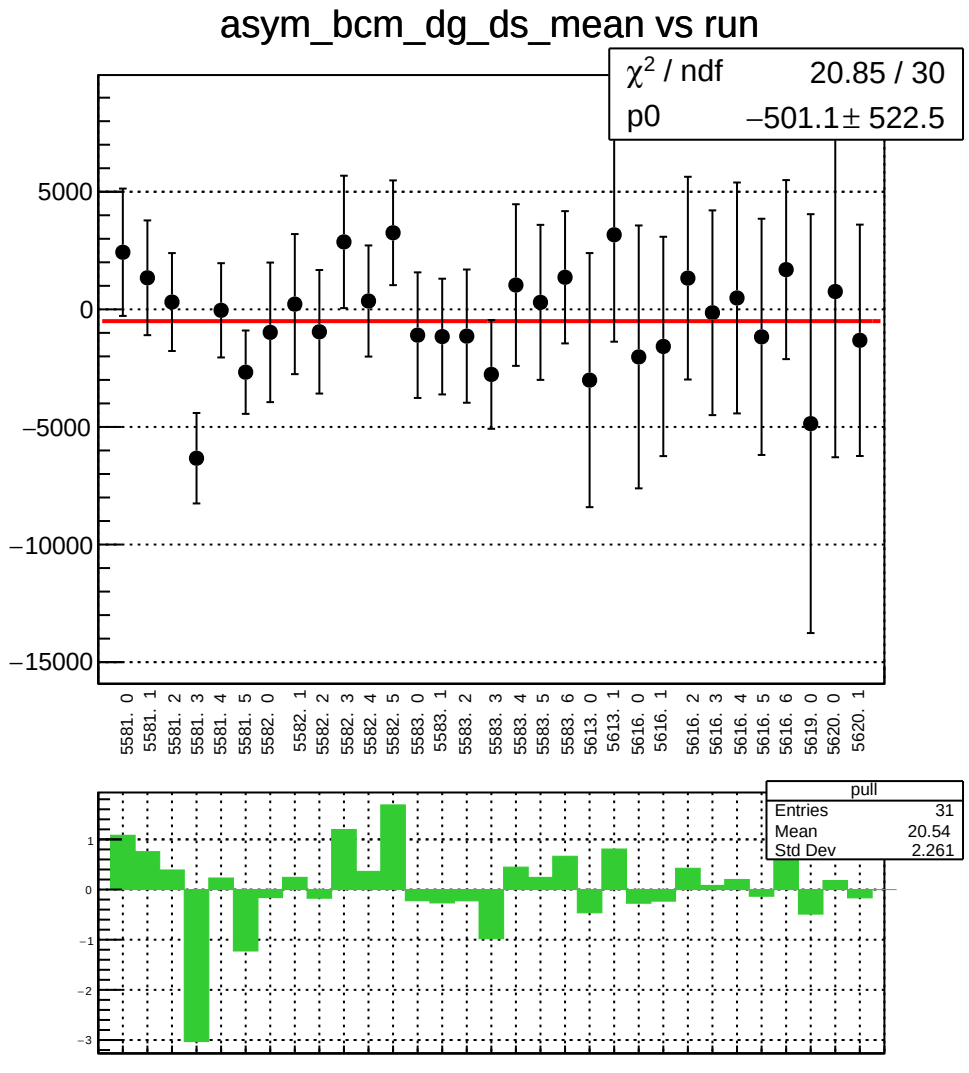

pull1D
Entries 31
Mean 0.04203
Std Dev 0.855
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

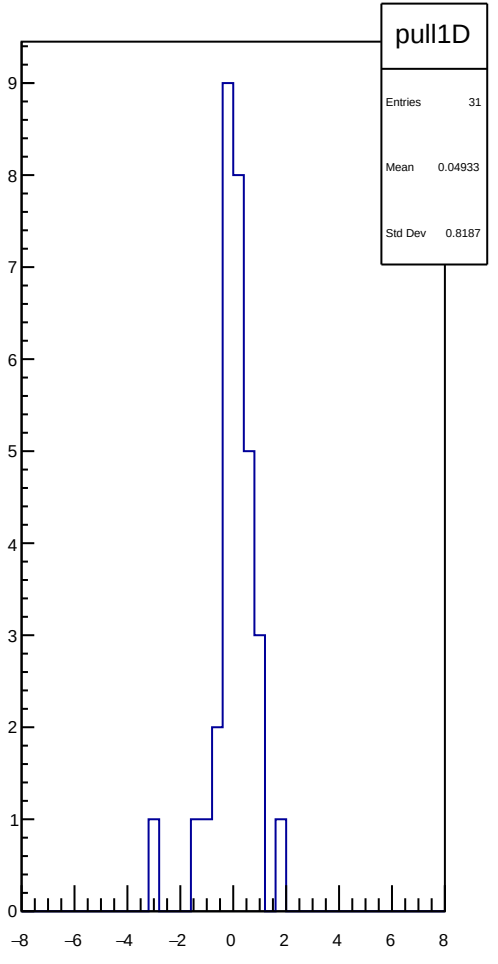

asym_bcm_an_us_rms vs run
χ² / ndf 6.614e+04 / 30
p0 259.7 ± 0.3533
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

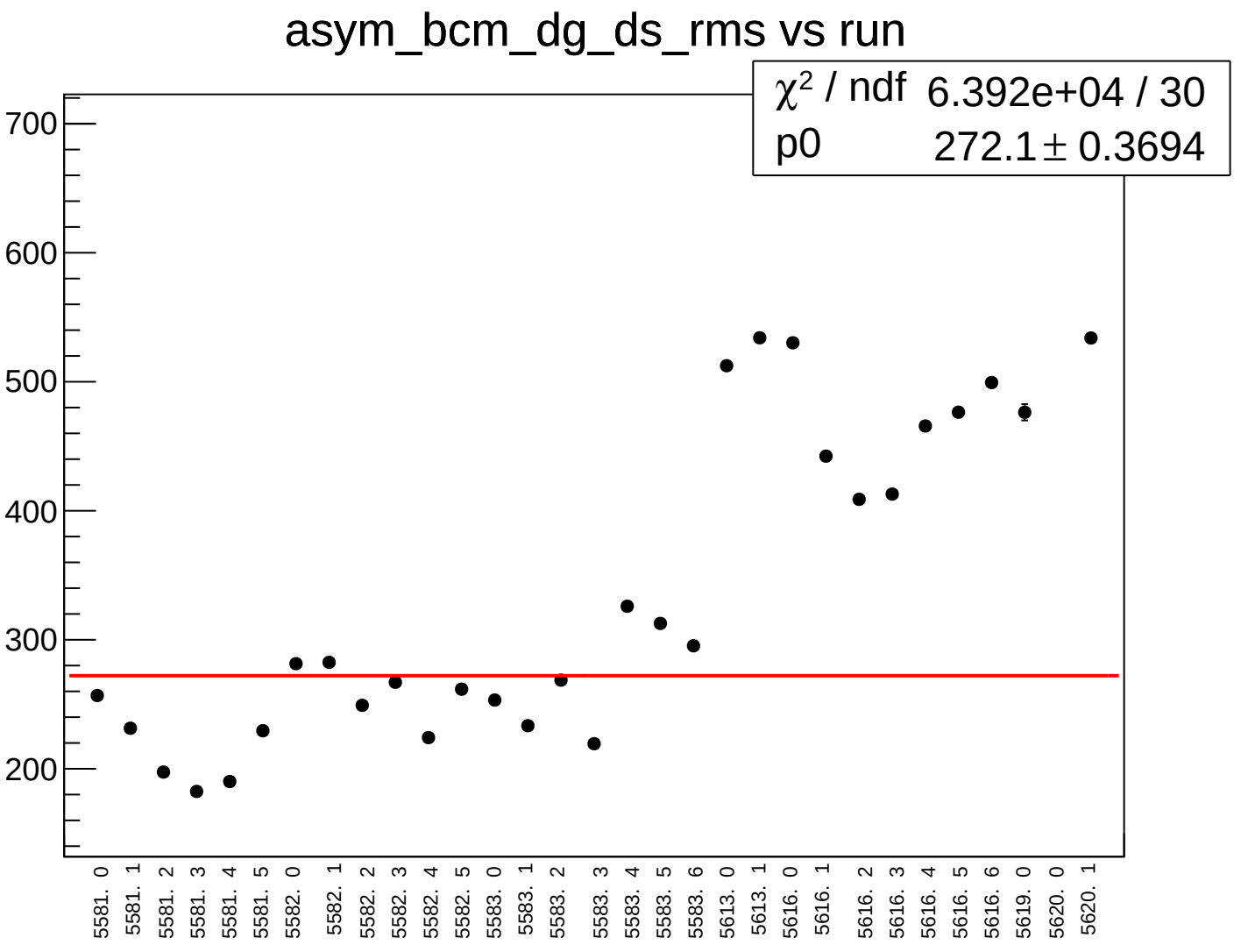

asym_bcm_dg_us_mean vs run
χ² / ndf 25.56 / 30
p0 −492 ± 523.6
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.56
Std Dev 5.743
1
0
−1
−2
−3

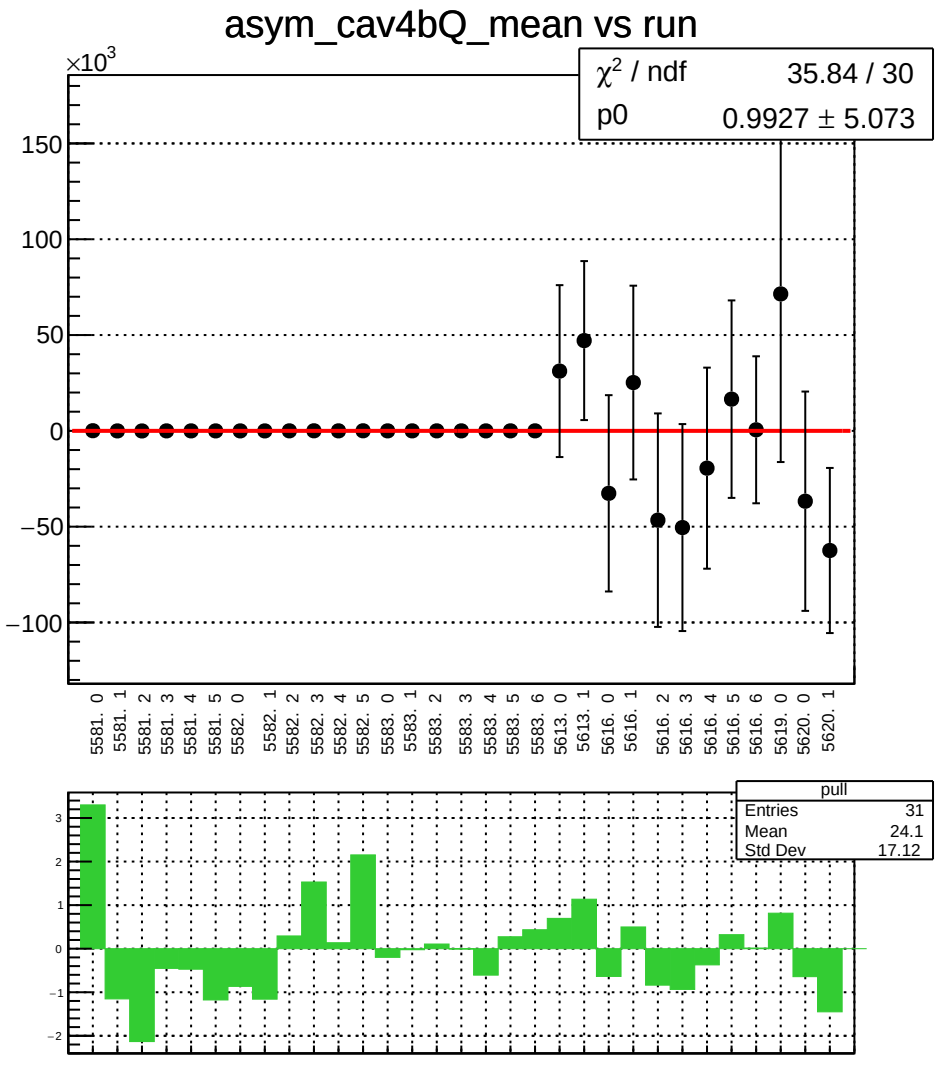

pull1D
Entries 31
Mean 0.05135
Std Dev 0.9067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

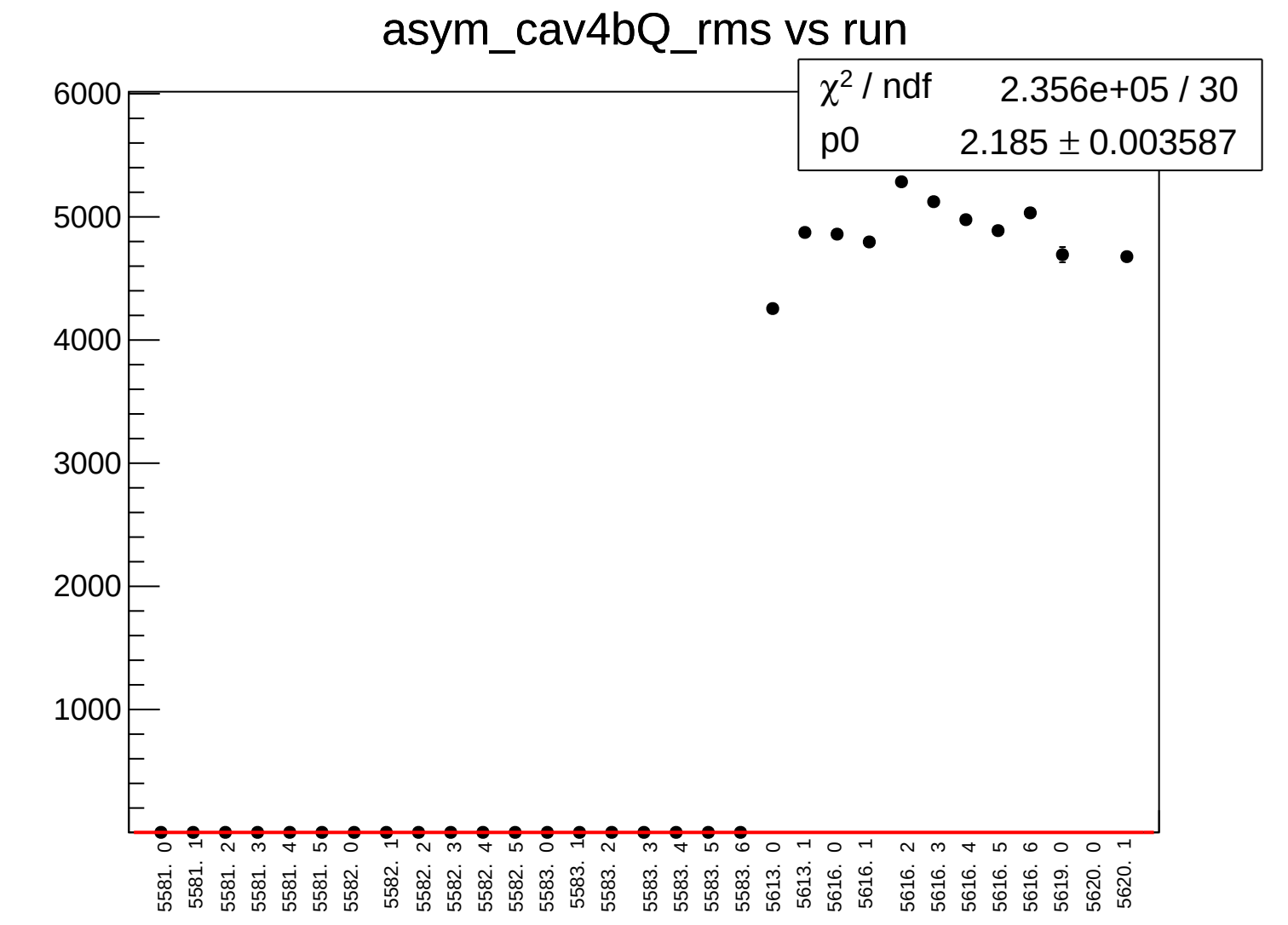

asym_bcm_dg_us_rms vs run
χ² / ndf 6.584e+04 / 30
p0 272.3 ± 0.3703
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

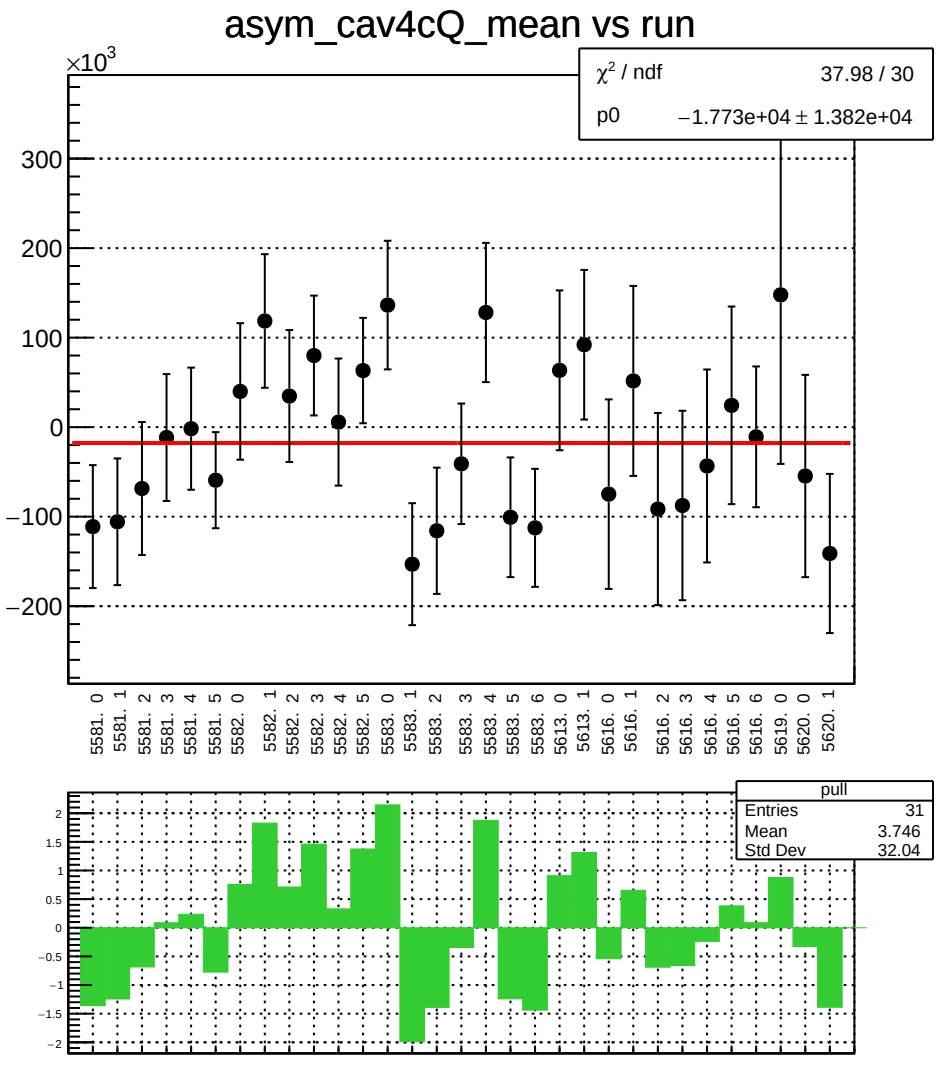

asym_bcm_dg_ds_mean vs run
χ² / ndf 20.85 / 30
p0 −501.1 ± 522.5
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.54
Std Dev 2.261
1
0
−1
−2
−3

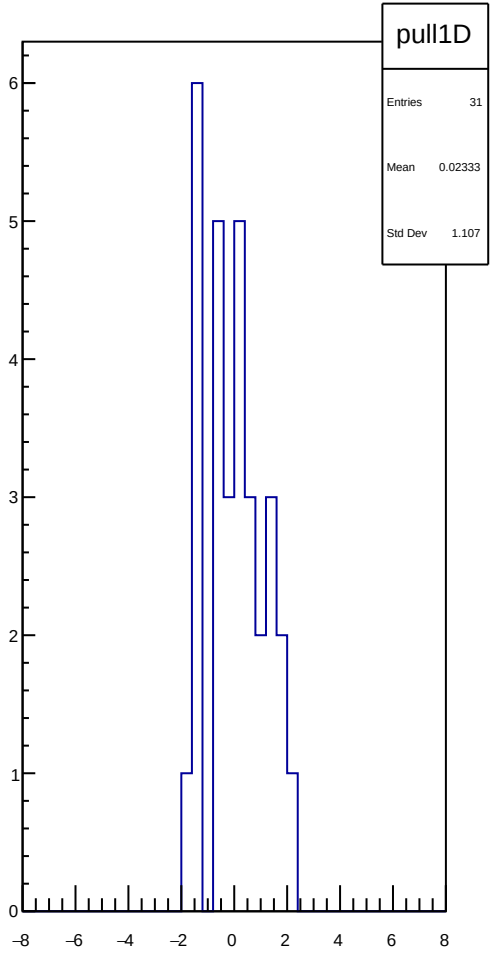

pull1D
Entries 31
Mean 0.04933
Std Dev 0.8187
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

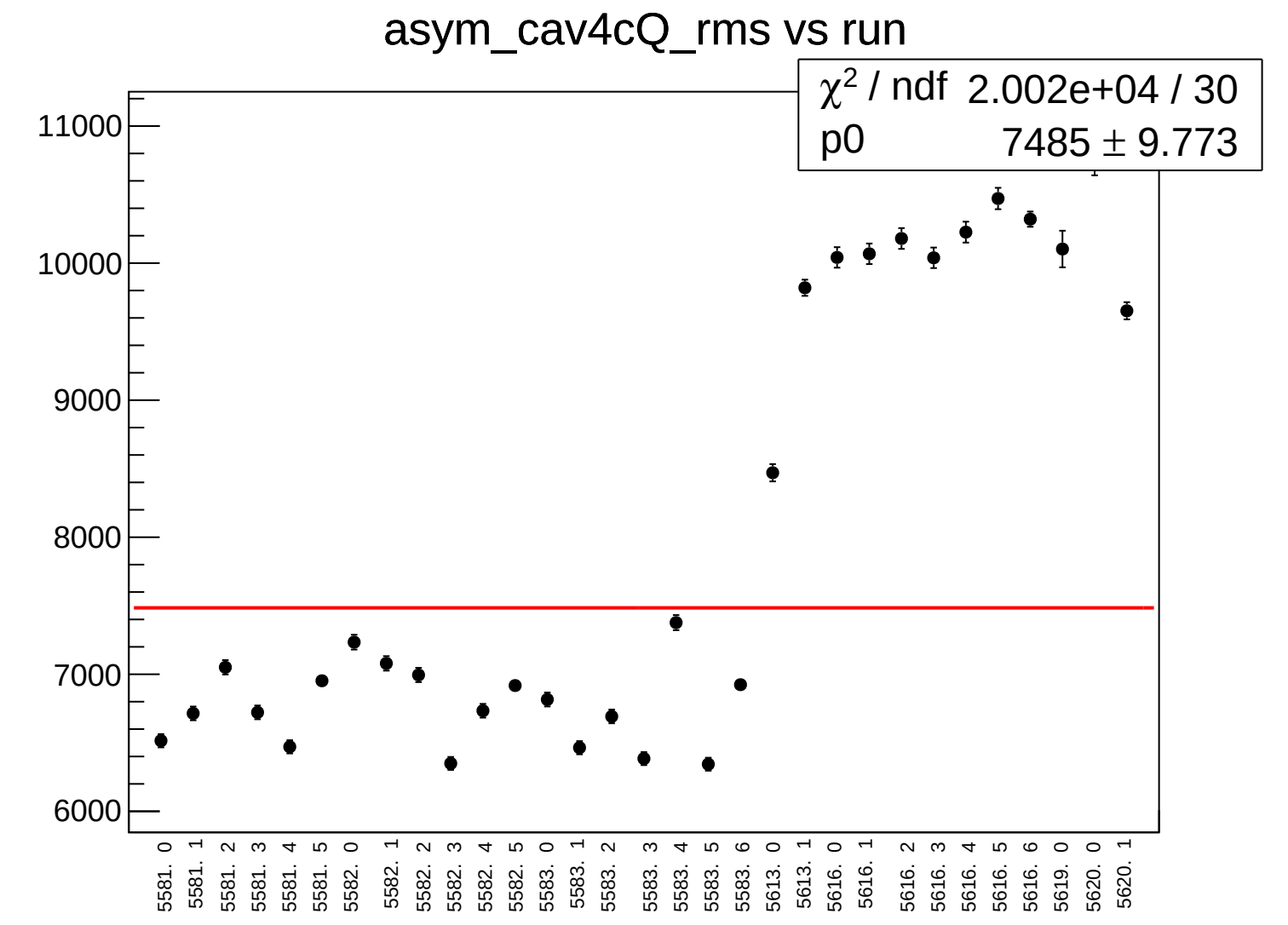

asym_bcm_dg_ds_rms vs run
χ² / ndf 6.392e+04 / 30
p0 272.1 ± 0.3694
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

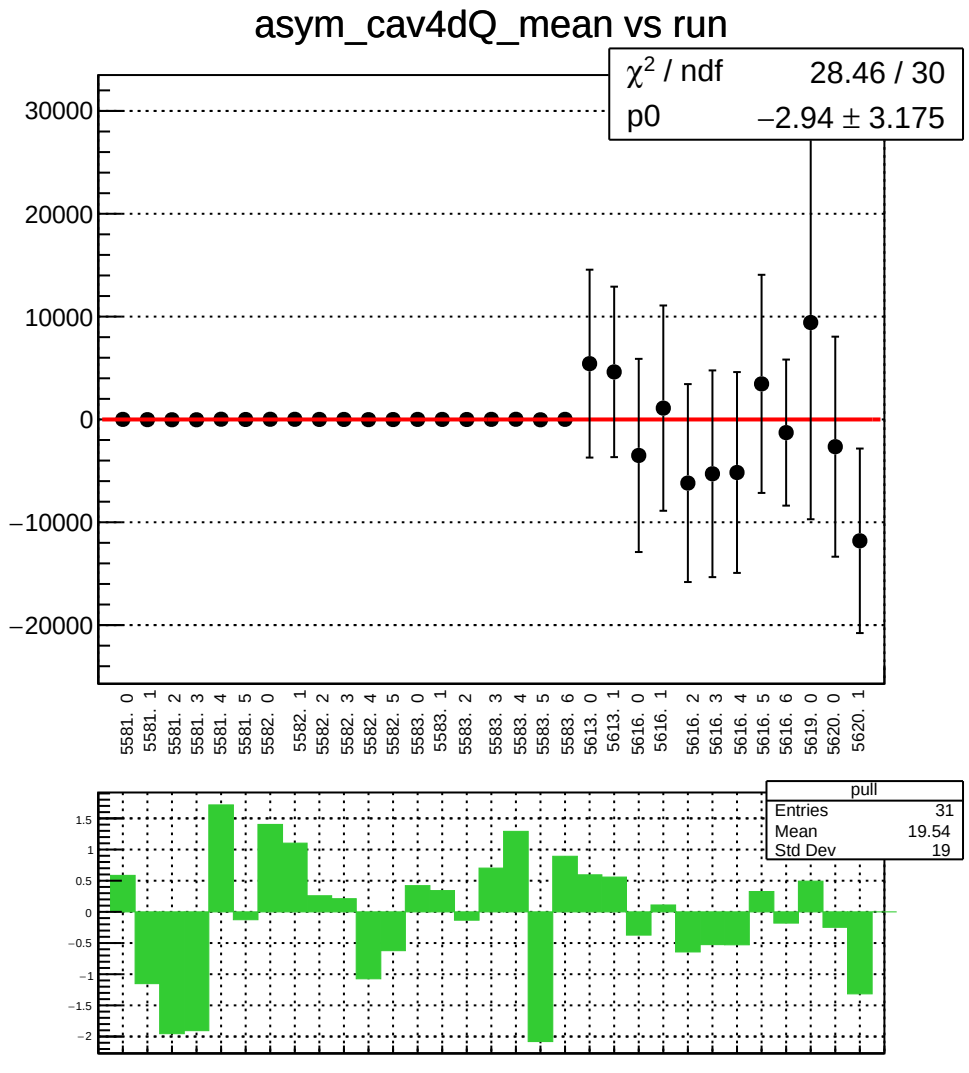

asym_cav4bQ_mean vs run
×10^3
χ^2 / ndf 35.84 / 30
p0 0.9927 ± 5.073
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.1
Std Dev 17.12
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.04536
Std Dev 1.074
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

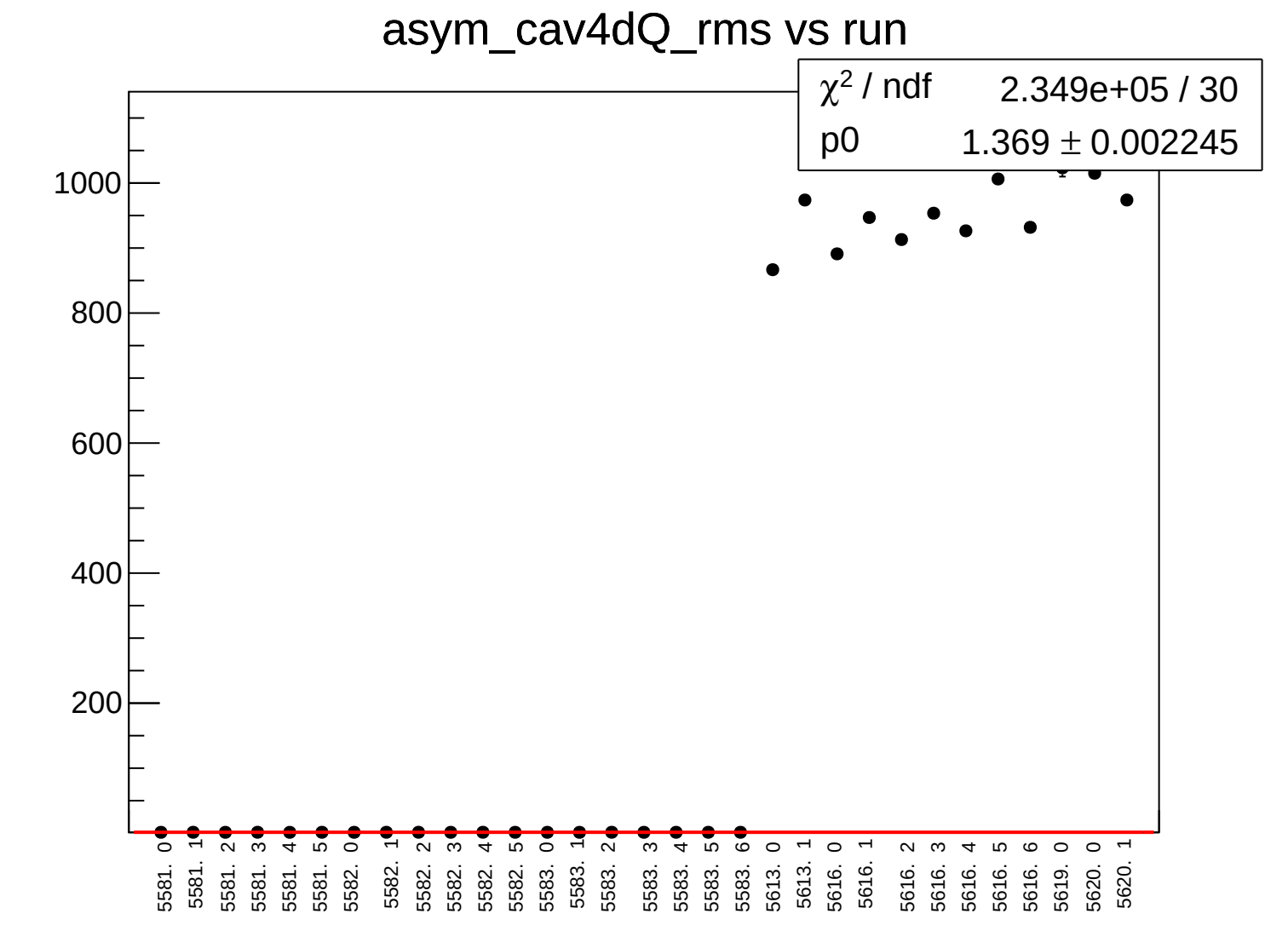

asym_cav4bQ_rms vs run
χ² / ndf 2.356e+05 / 30
p0 2.185 ± 0.003587
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

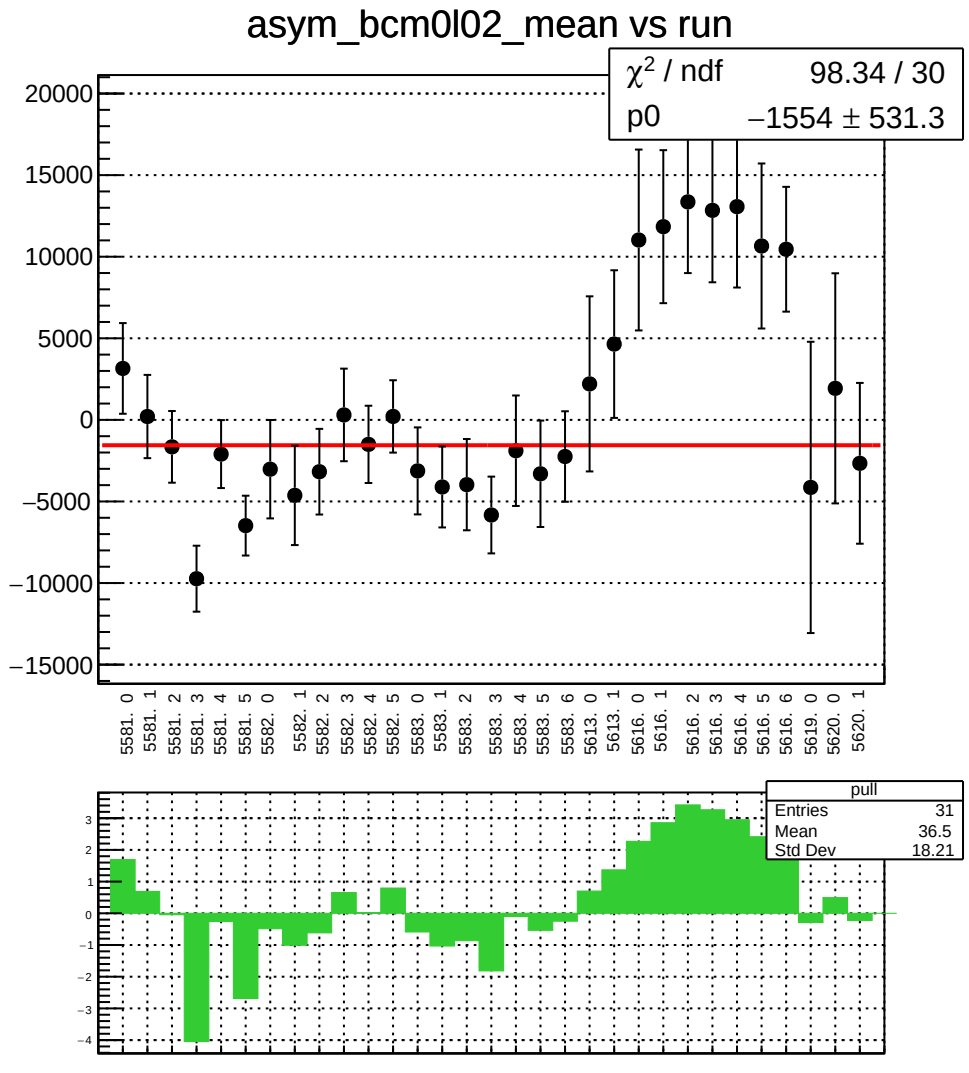

asym_cav4cQ_mean vs run
×10^3
χ² / ndf 37.98 / 30
p0 −1.773e+04 ± 1.382e+04
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 3.746
Std Dev 32.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

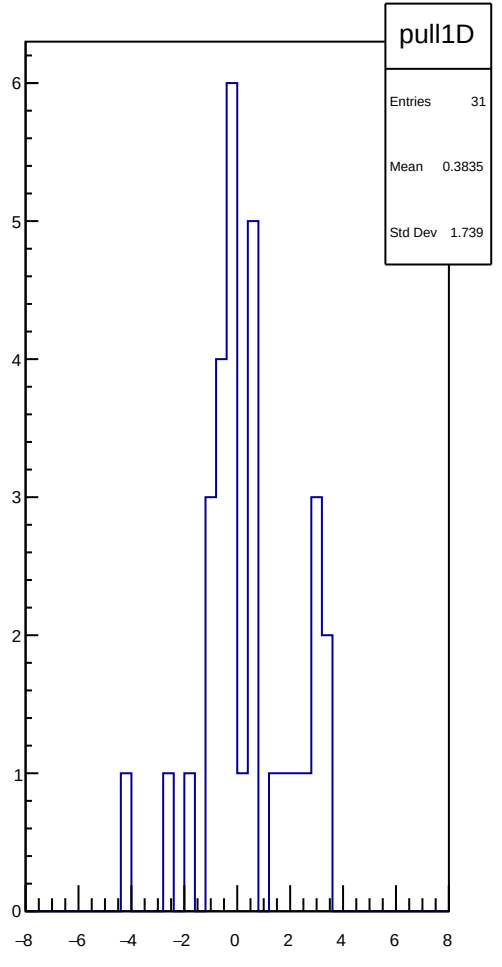

pull1D
Entries 31
Mean 0.02333
Std Dev 1.107
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

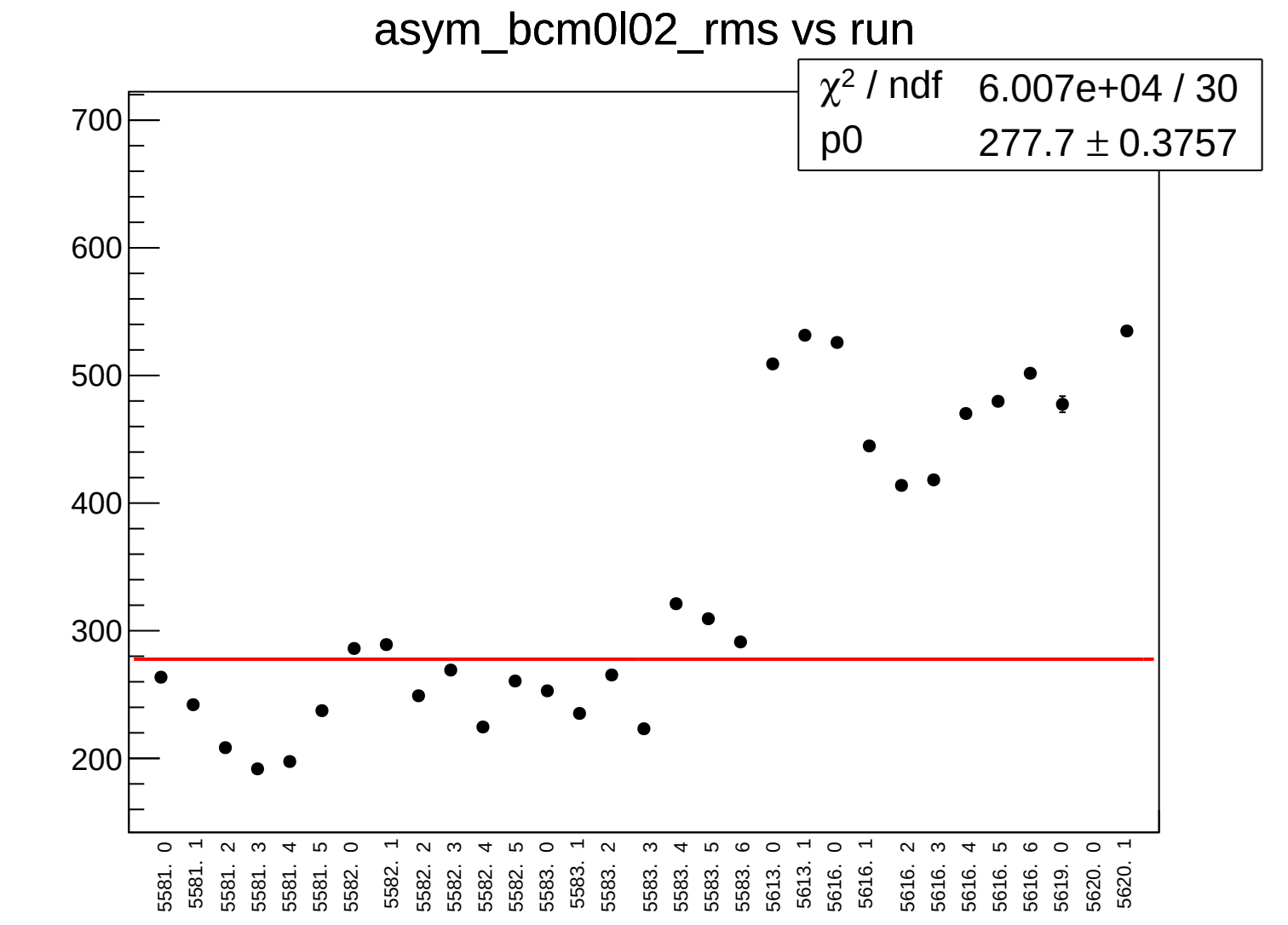

asym_cav4cQ_rms vs run
χ² / ndf 2.002e+04 / 30
p0 7485 ± 9.773
11000
10000
9000
8000
7000
6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

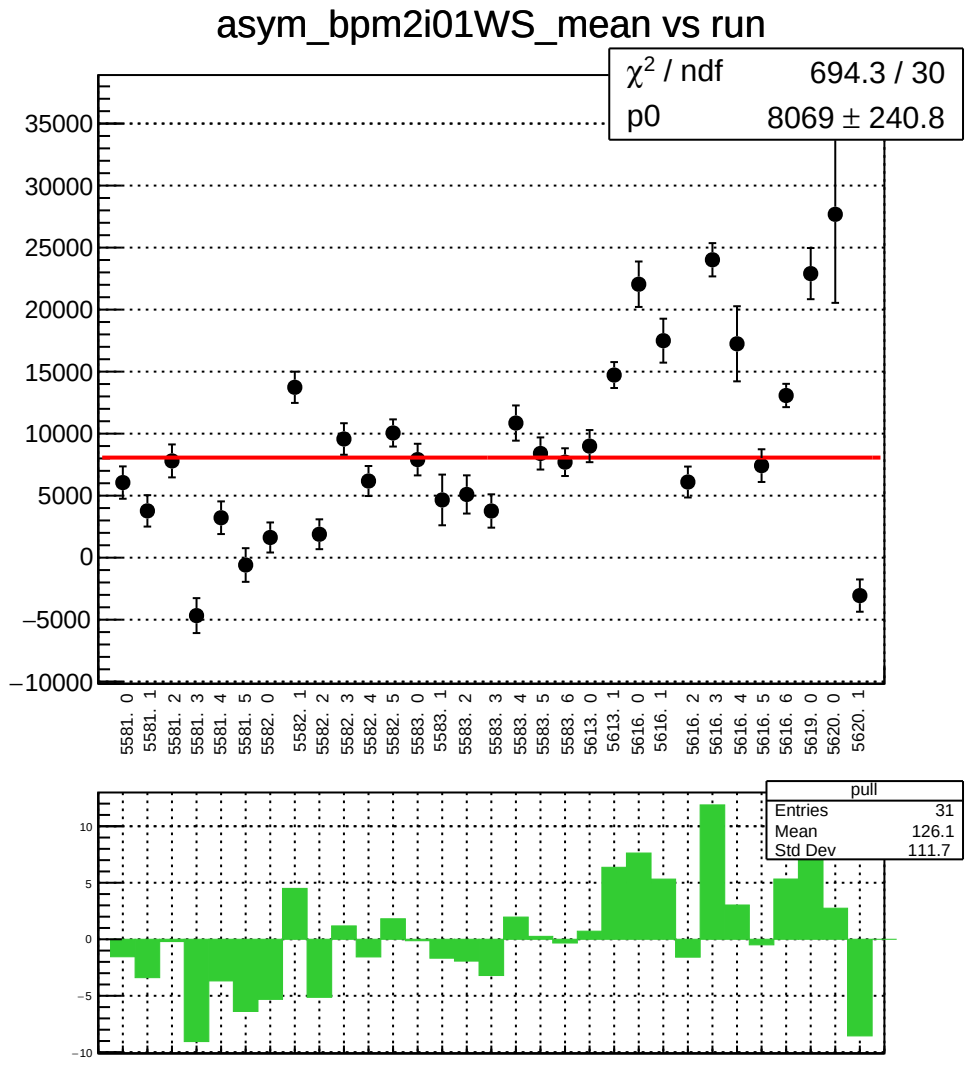

asym_cav4dQ_mean vs run
χ² / ndf 28.46 / 30
p0 −2.94 ± 3.175
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.54
Std Dev 19
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.05974
Std Dev 0.9563
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

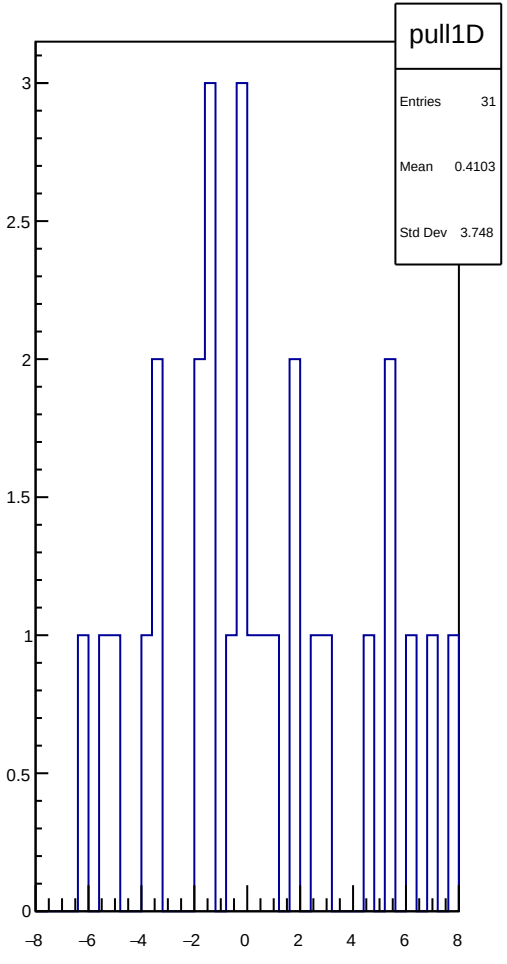

asym_cav4dQ_rms vs run
χ² / ndf 2.349e+05 / 30
p0 1.369 ± 0.002245
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

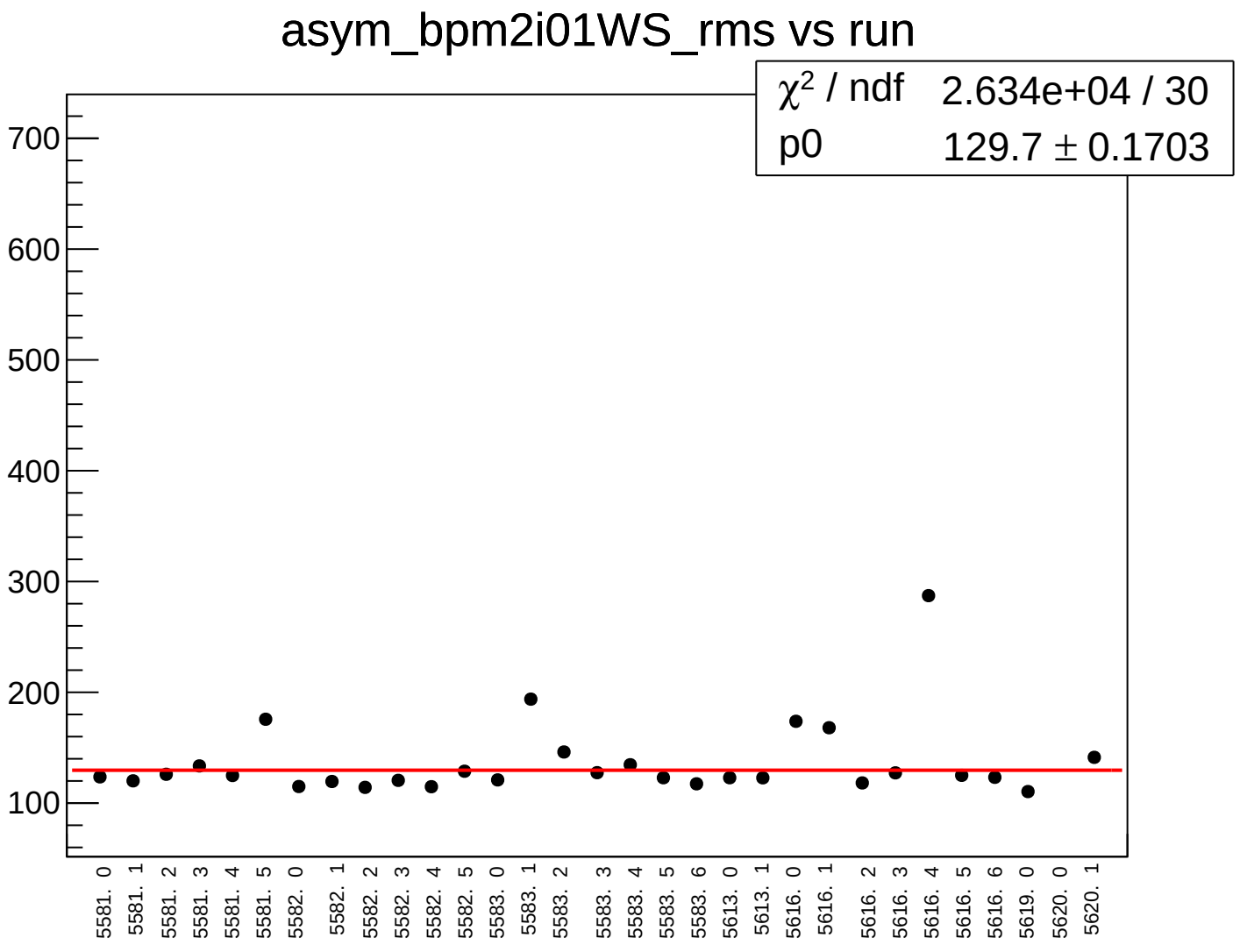

asym_bcm0l02_mean vs run
χ² / ndf 98.34 / 30
p0 −1554 ± 531.3
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 36.5
Std Dev 18.21
3
2
1
0
−1
−2
−3
−4

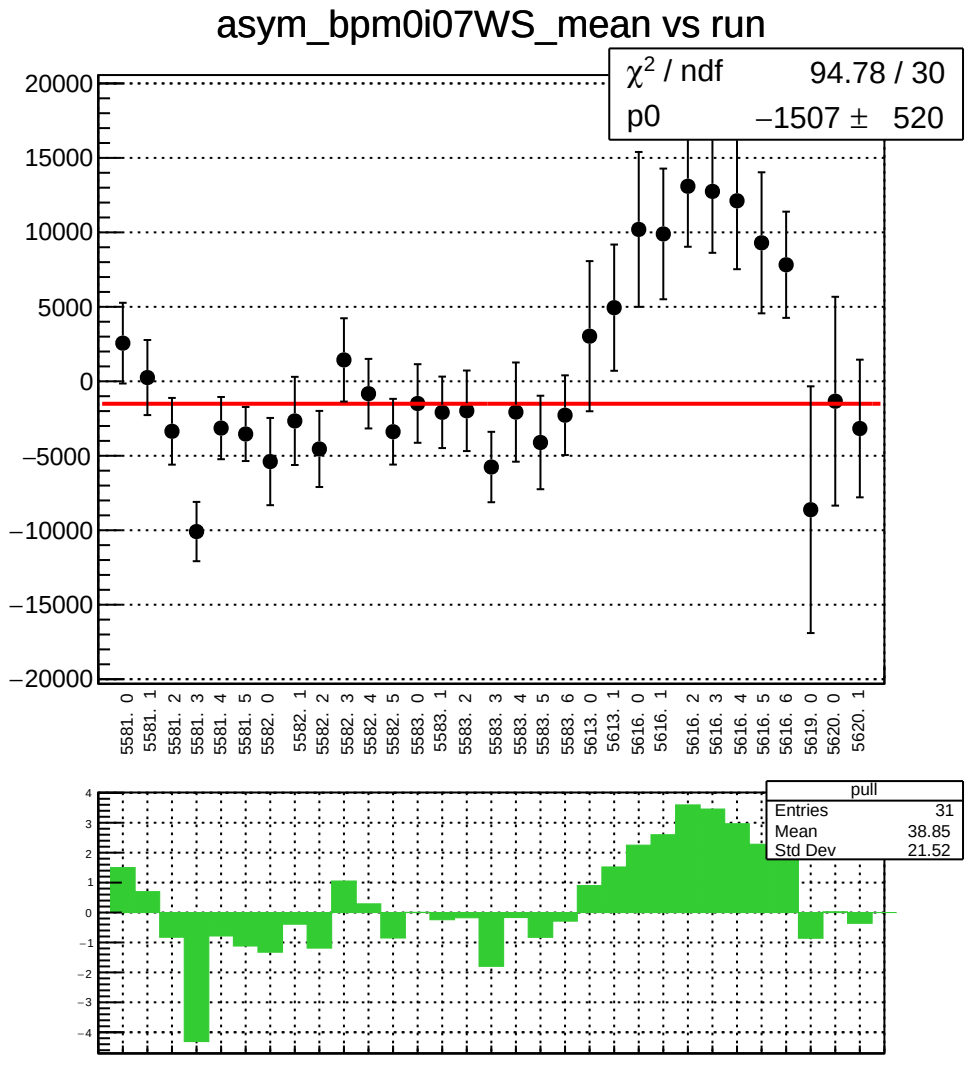

pull1D
Entries 31
Mean 0.3835
Std Dev 1.739
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

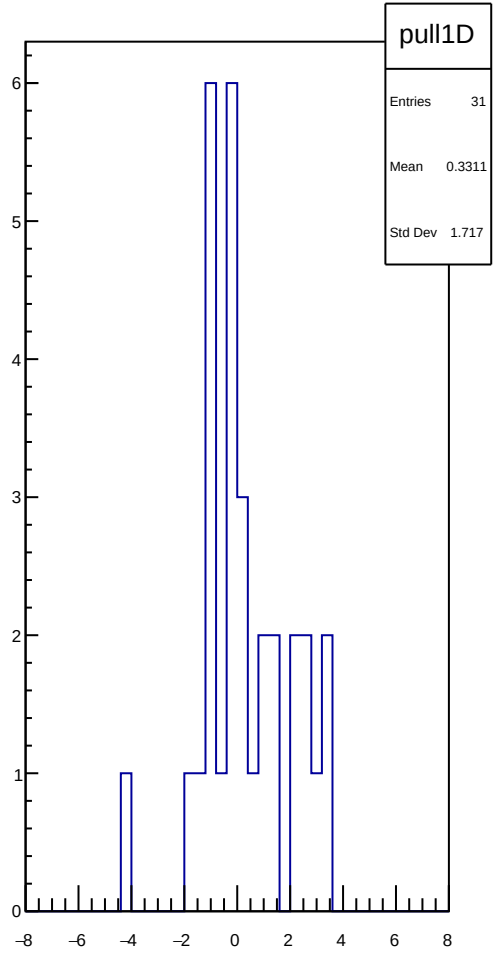

asym_bcm0l02_rms vs run
χ² / ndf 6.007e+04 / 30
p0 277.7 ± 0.3757
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

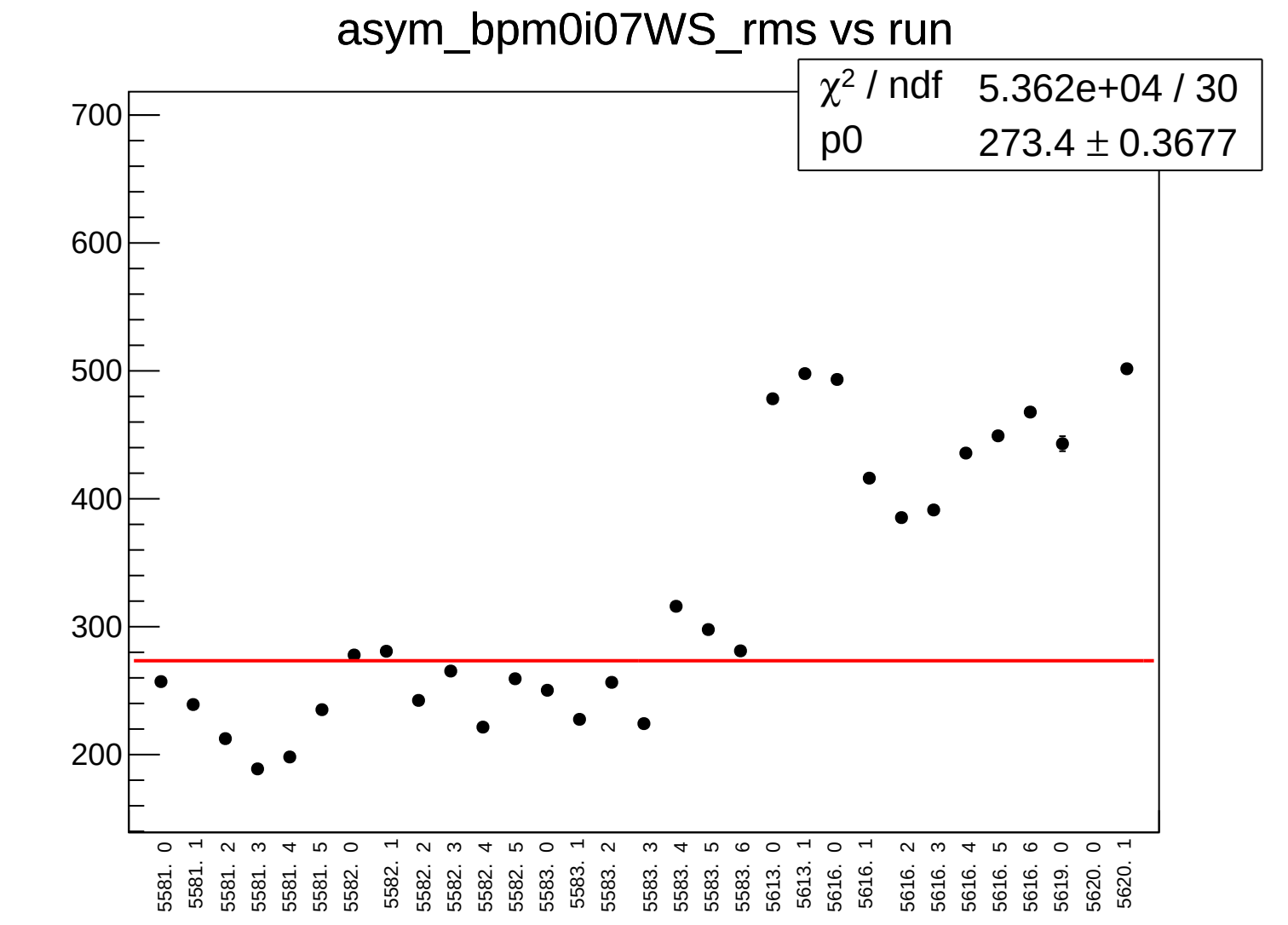

asym_bpm2i01WS_mean vs run
χ² / ndf 694.3 / 30
p0 8069 ± 240.8
35000
30000
25000
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 126.1
Std Dev 111.7
10
5
0
−5
−10

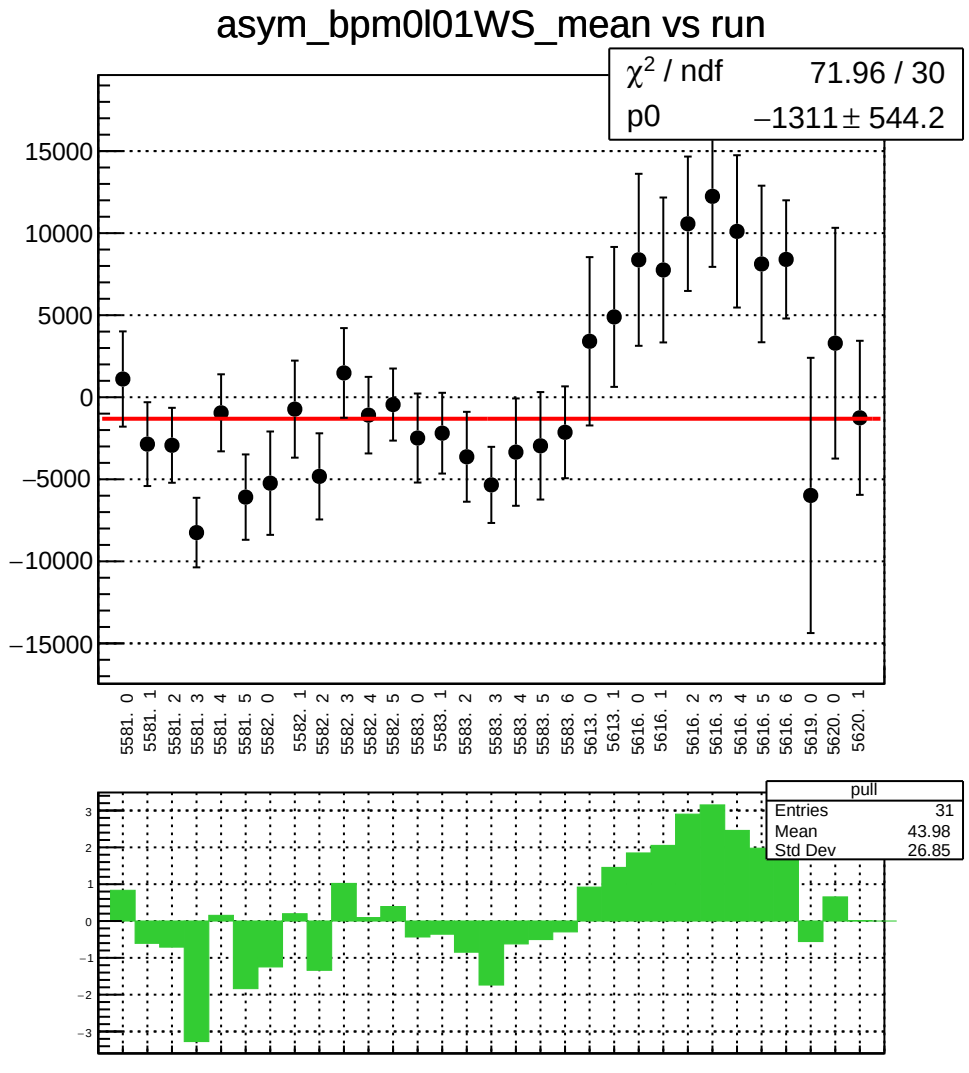

pull1D
Entries 31
Mean 0.4103
Std Dev 3.748
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

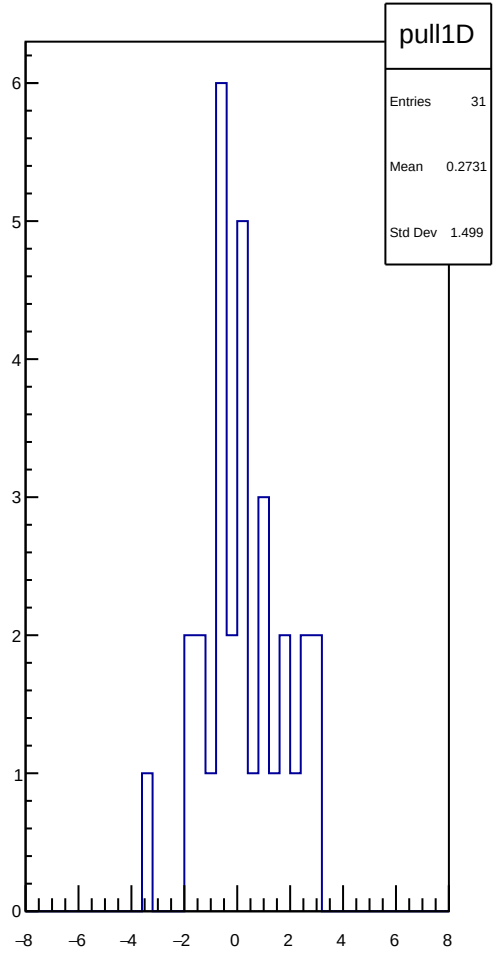

asym_bpm2i01WS_rms vs run
χ² / ndf 2.634e+04 / 30
p0 129.7 ± 0.1703
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

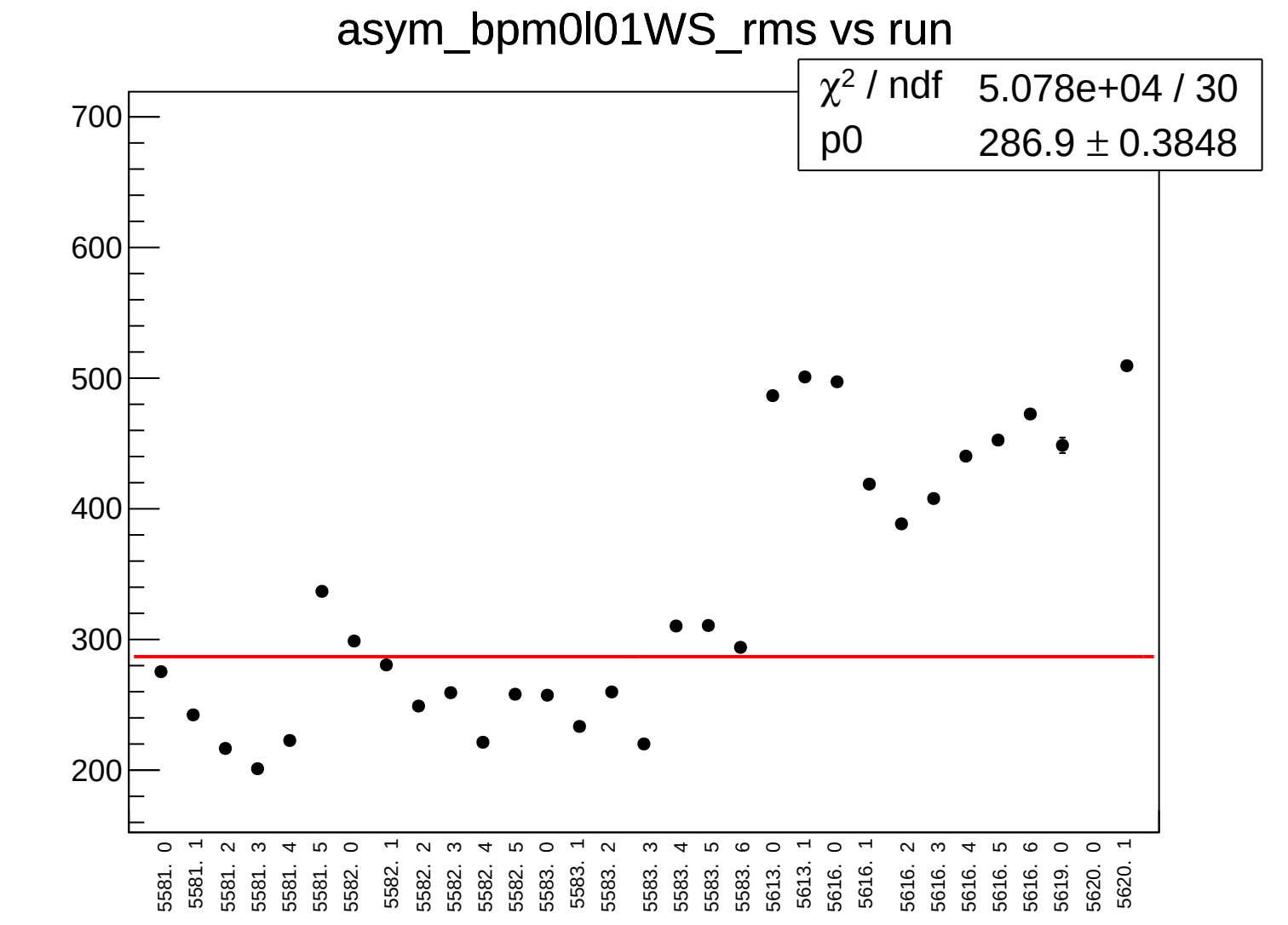

asym_bpm0i07WS_mean vs run
χ² / ndf 94.78 / 30
p0 −1507 ± 520
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.85
Std Dev 21.52
4
3
2
1
0
−1
−2
−3
−4

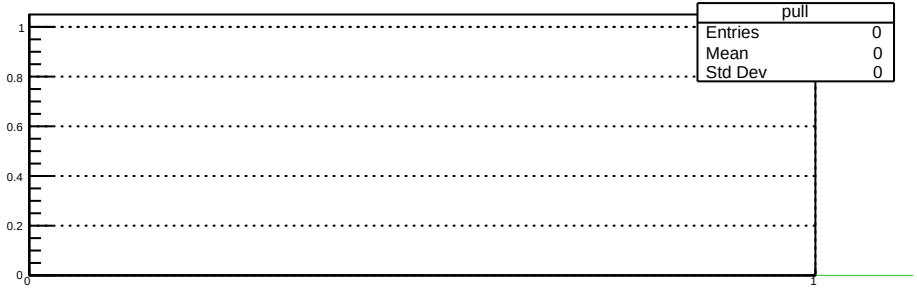

pull1D
Entries 31
Mean 0.3311
Std Dev 1.717
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

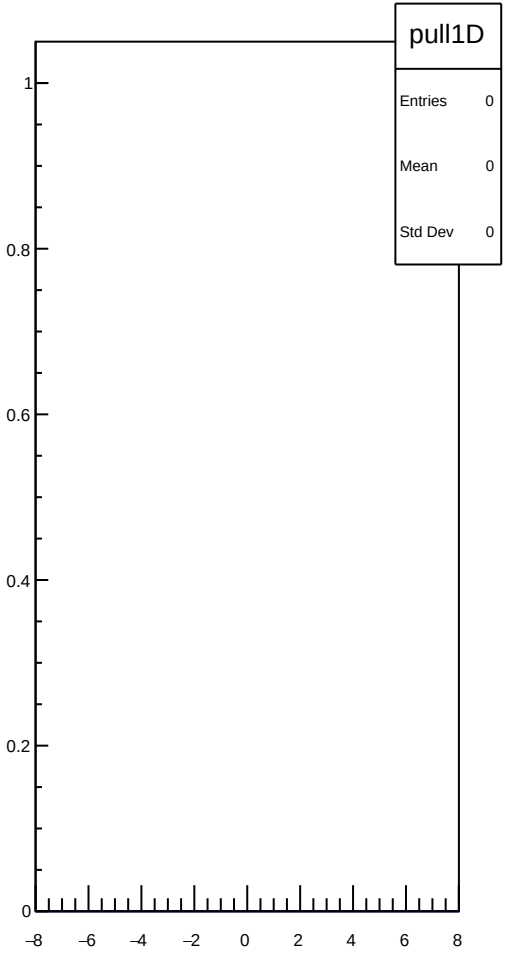

asym_bpm0i07WS_rms vs run
χ² / ndf 5.362e+04 / 30
p0 273.4 ± 0.3677
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

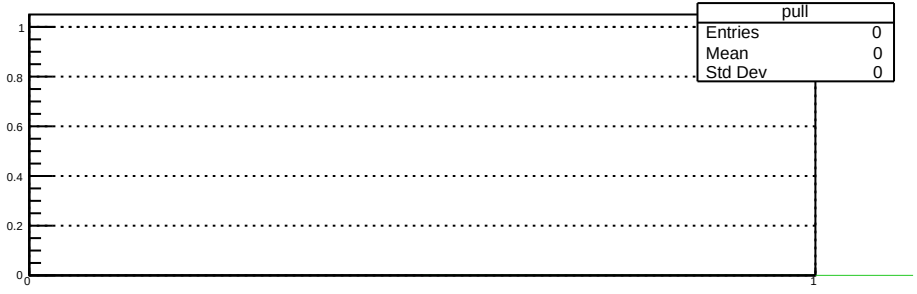

asym_bpm0l01WS_mean vs run
χ² / ndf 71.96 / 30
p0 −1311 ± 544.2
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.98
Std Dev 26.85
3
2
1
0
−1
−2
−3

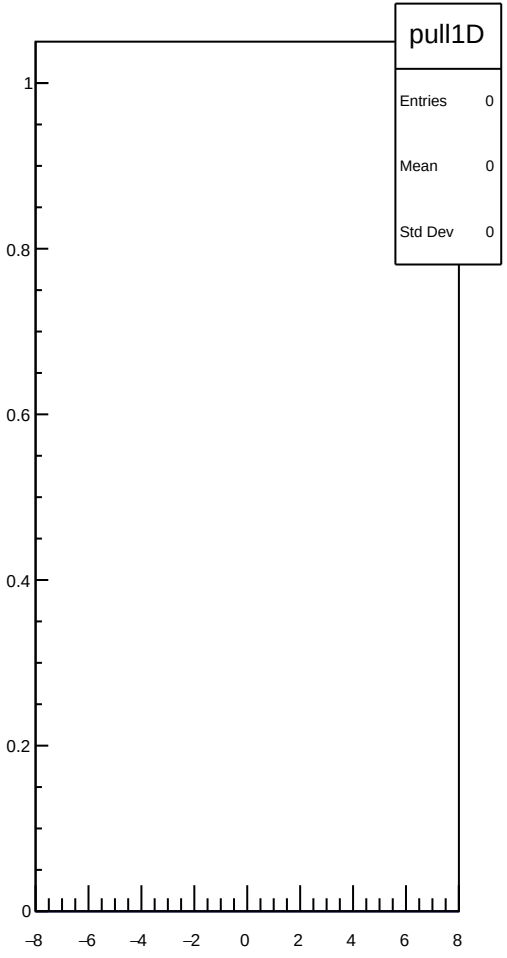

pull1D
Entries 31
Mean 0.2731
Std Dev 1.499
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

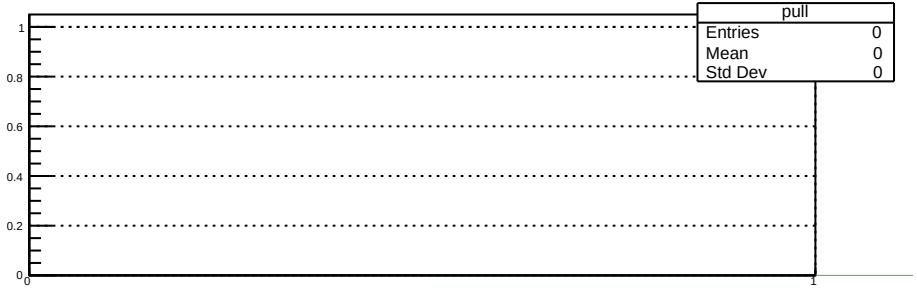

asym_bpm0l01WS_rms vs run
χ² / ndf 5.078e+04 / 30
p0 286.9 ± 0.3848
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

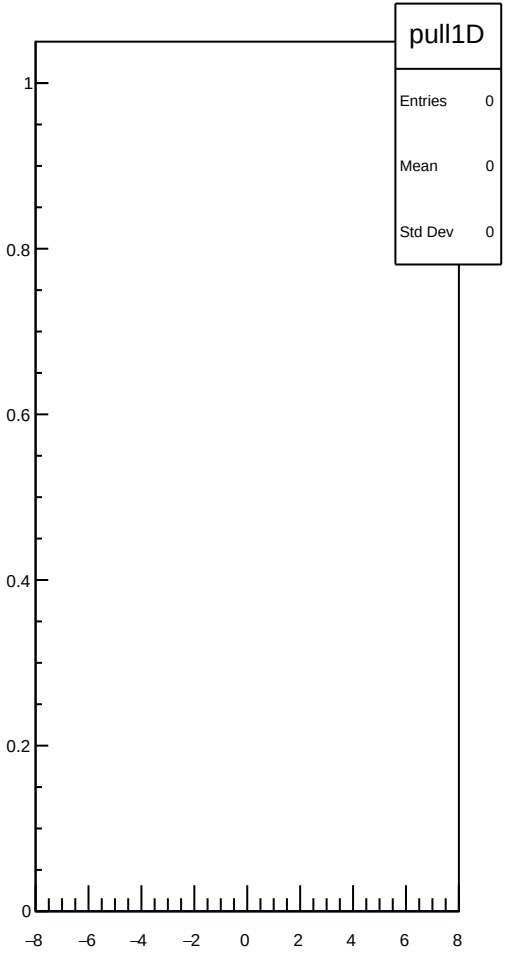

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

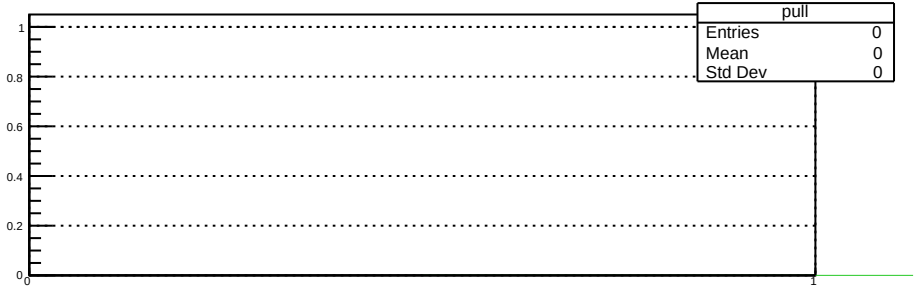

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

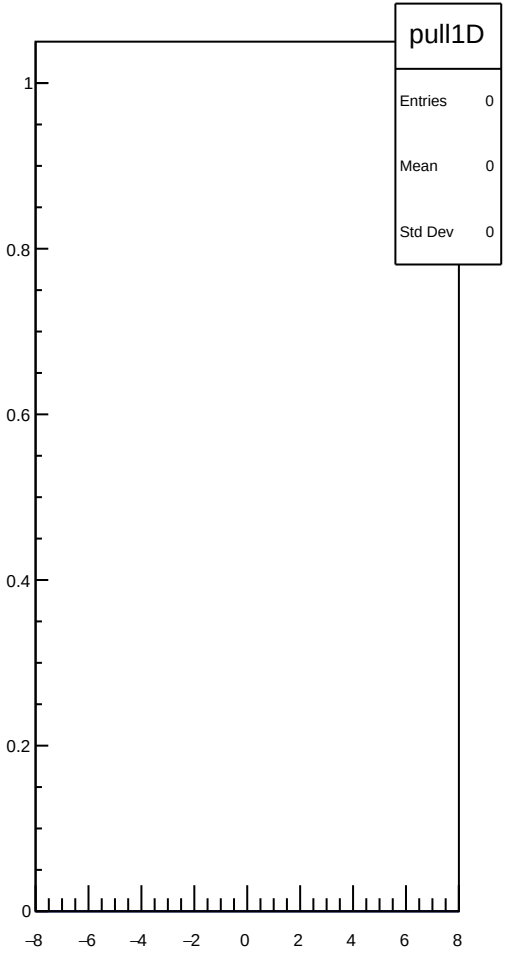

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

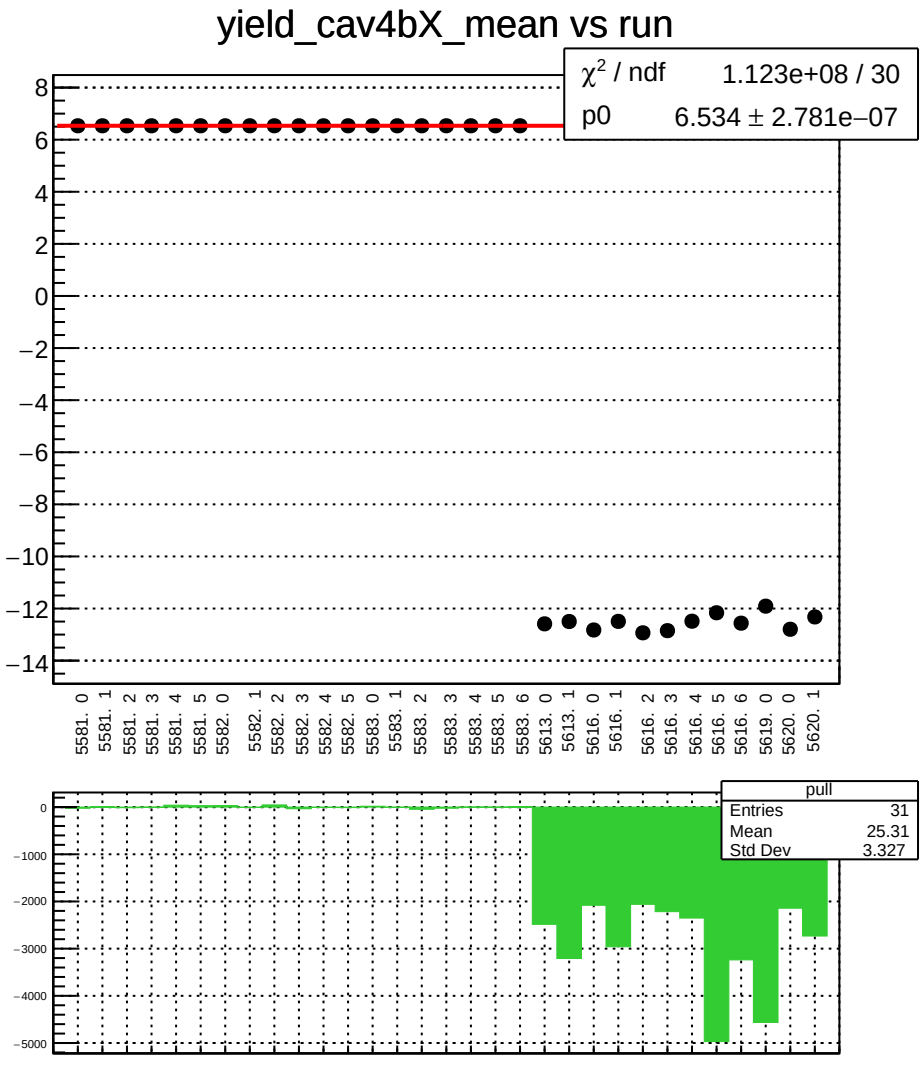

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

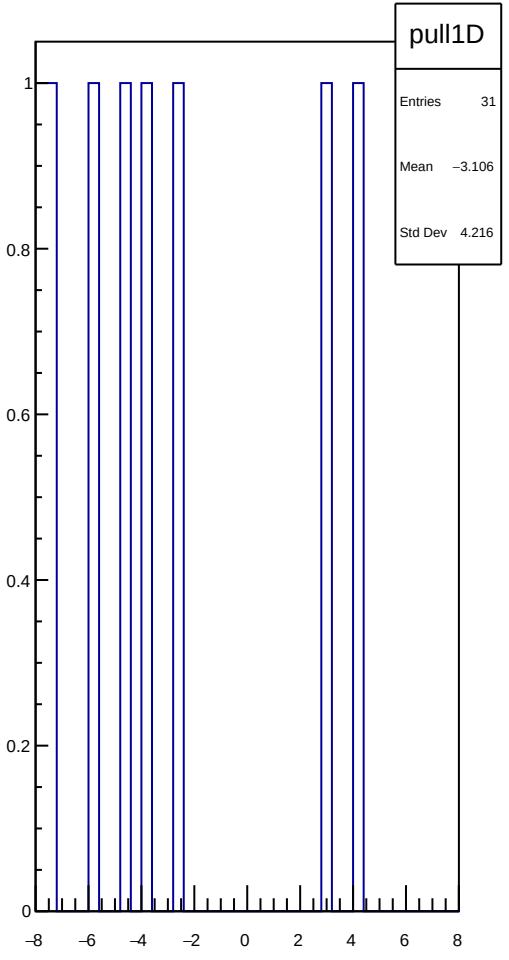

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

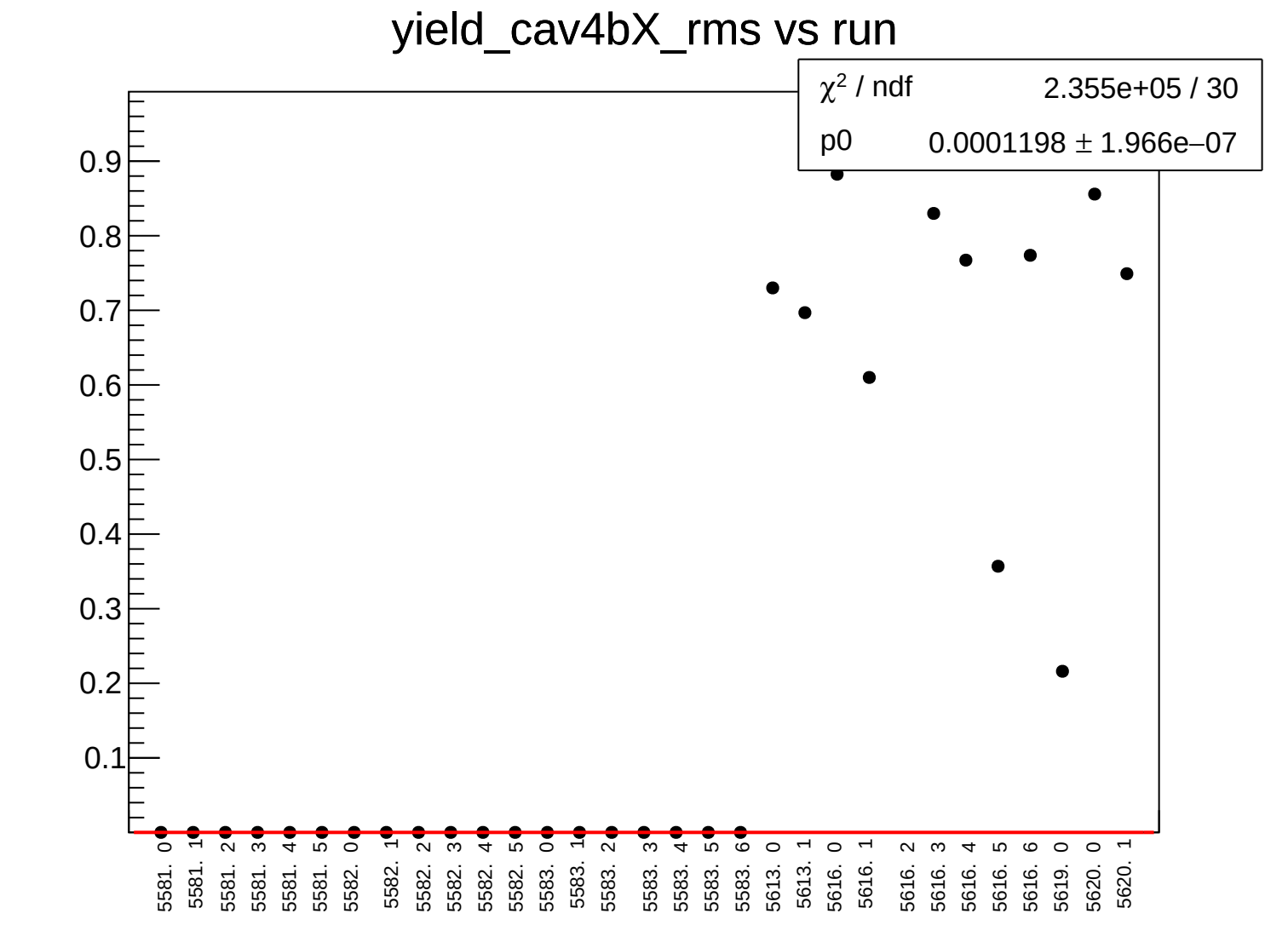

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

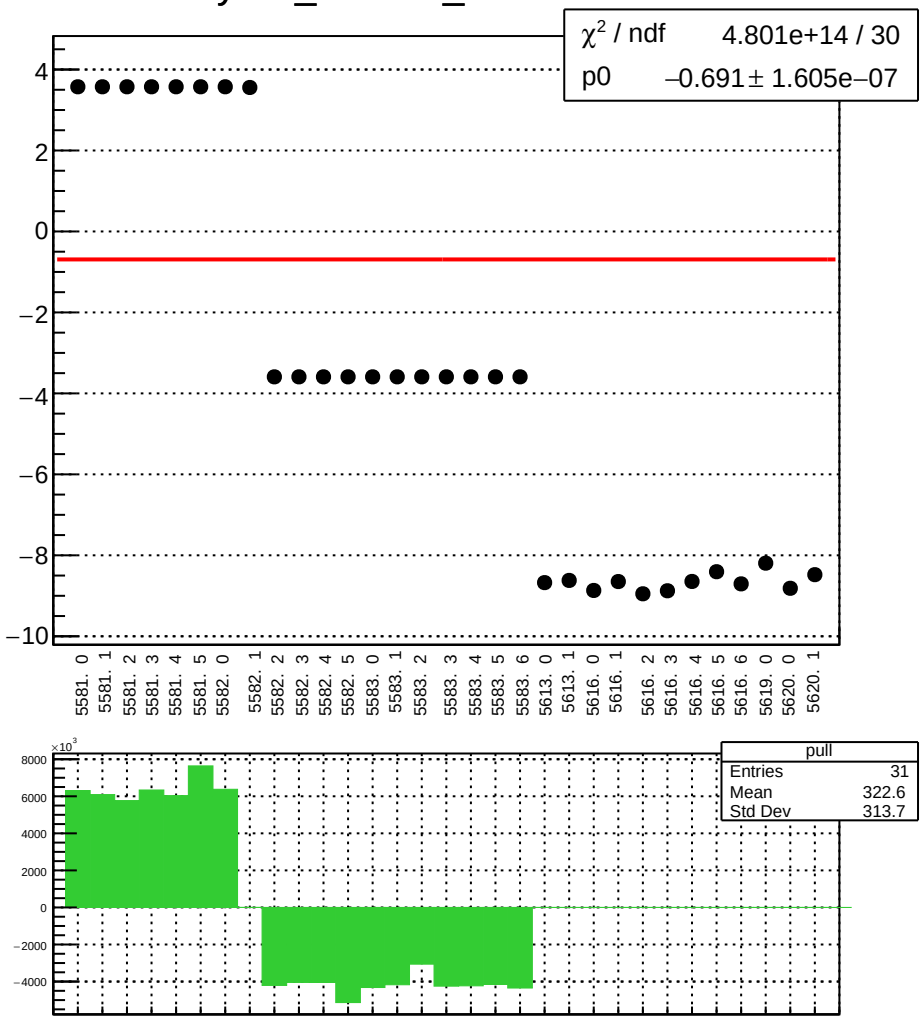

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

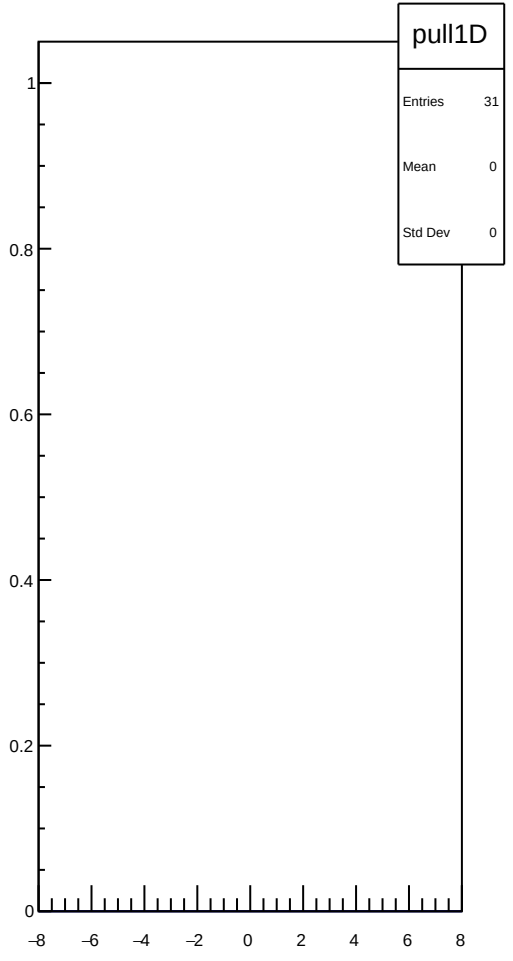

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

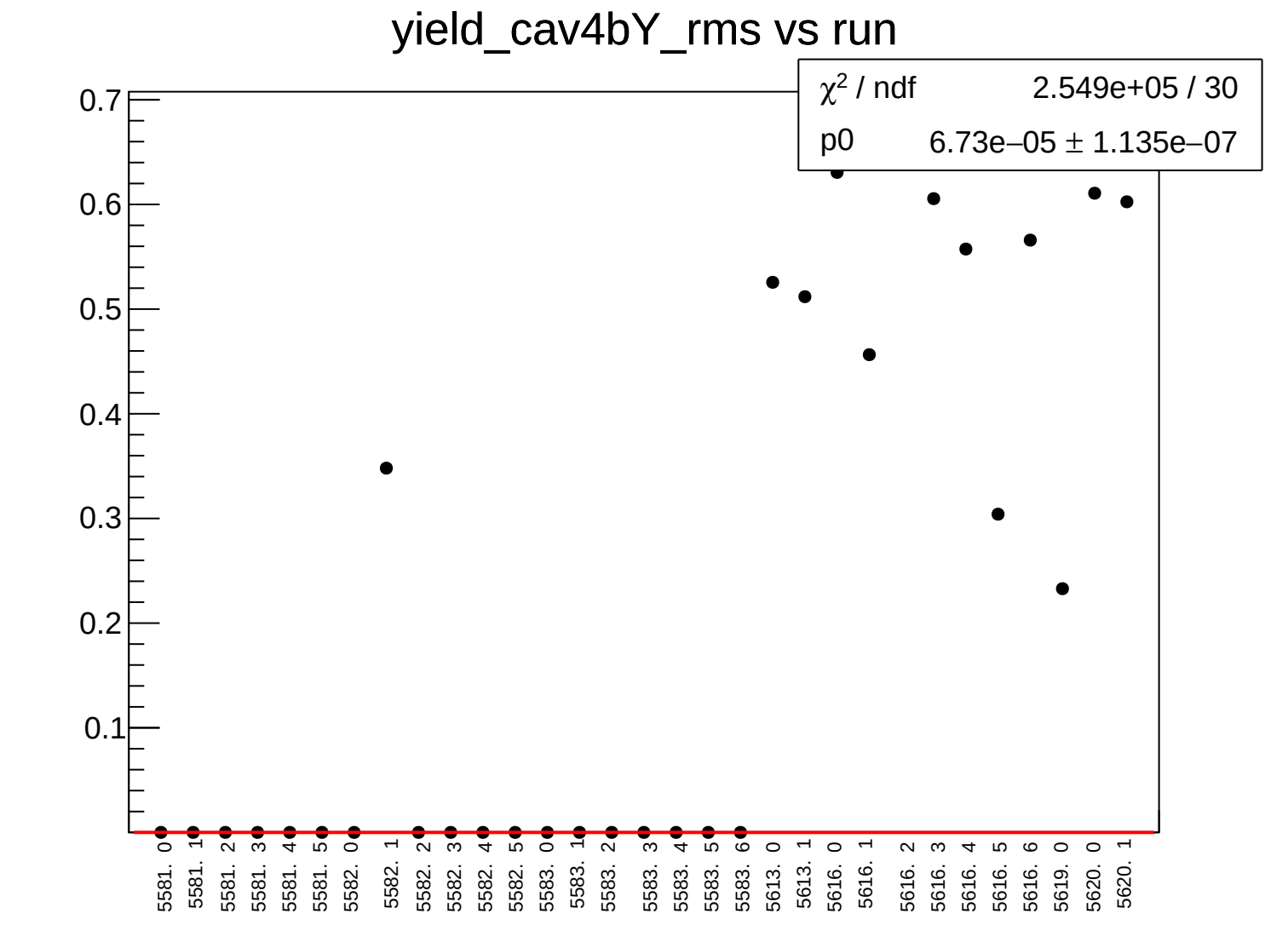

yield_cav4bX_mean vs run
χ² / ndf 1.123e+08 / 30
p0 6.534 ± 2.781e−07
8
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 25.31
Std Dev 3.327
0
−1000
−2000
−3000
−4000
−5000

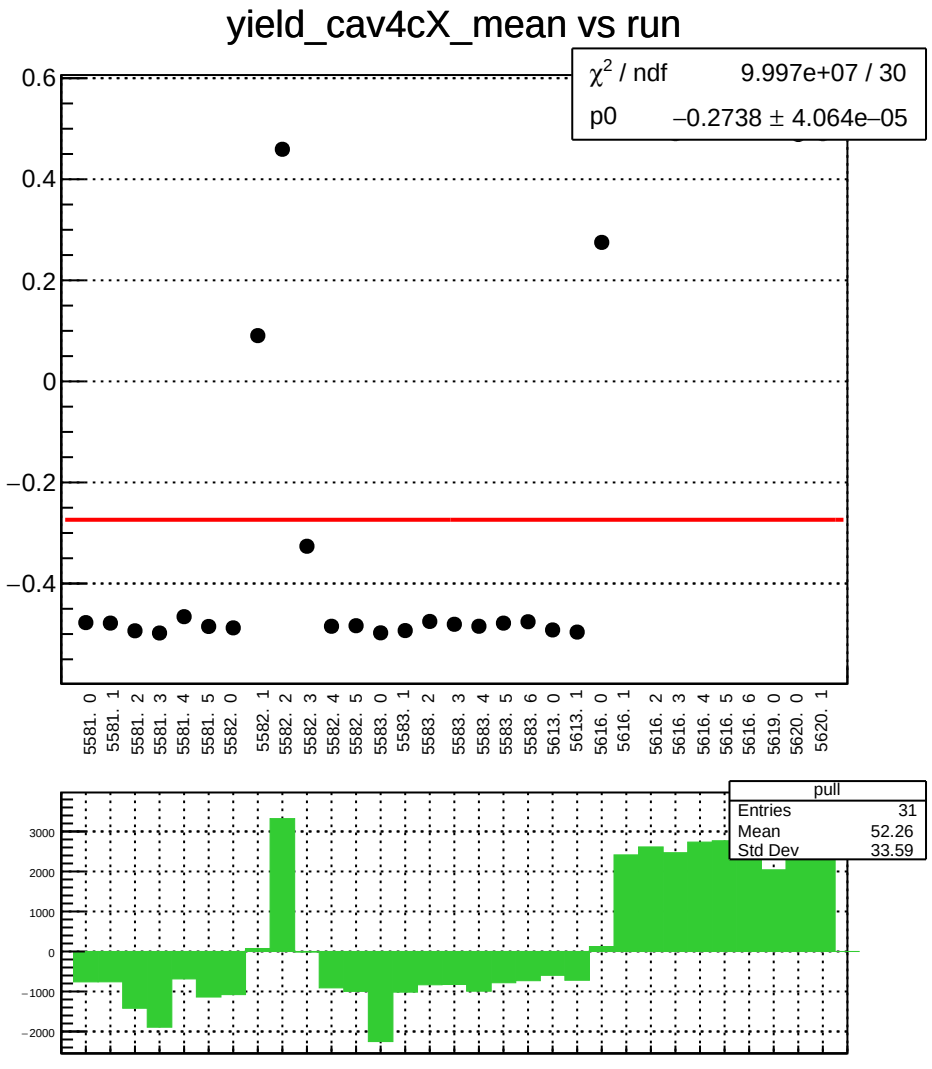

pull1D
Entries 31
Mean −3.106
Std Dev 4.216
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

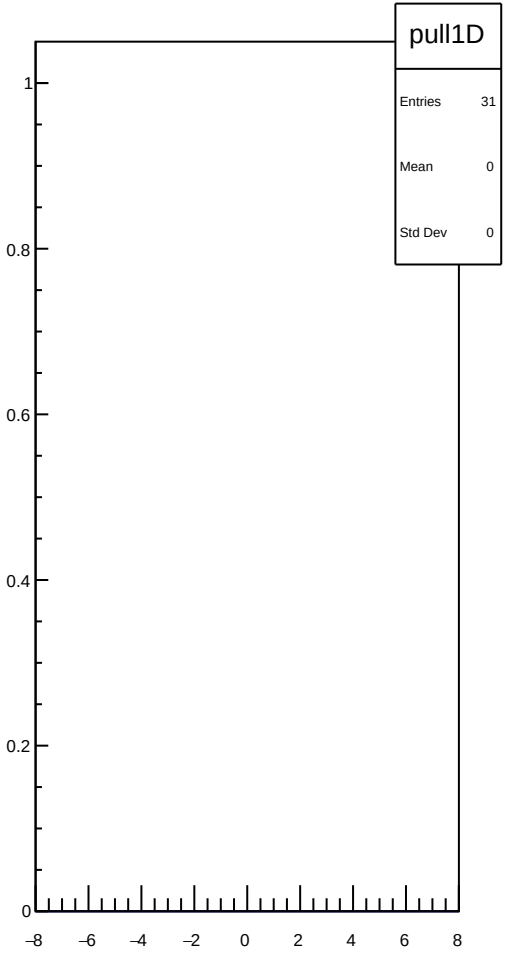

yield_cav4bX_rms vs run
χ² / ndf 2.355e+05 / 30
p0 0.0001198 ± 1.966e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

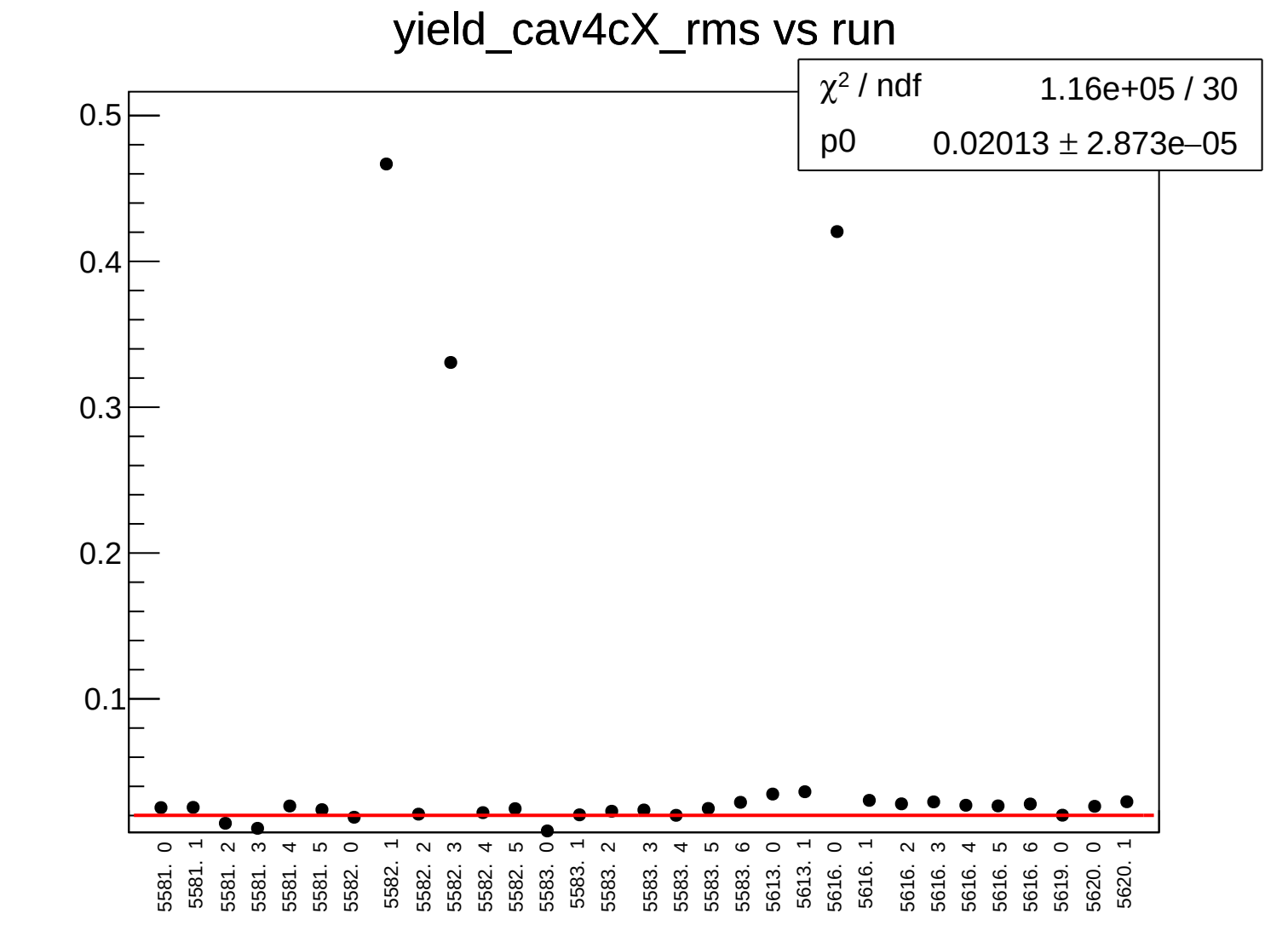

yield_cav4bY_mean vs run
χ² / ndf 4.801e+14 / 30
p0 −0.691 ± 1.605e−07
pull
Entries 31
Mean 322.6
Std Dev 313.7

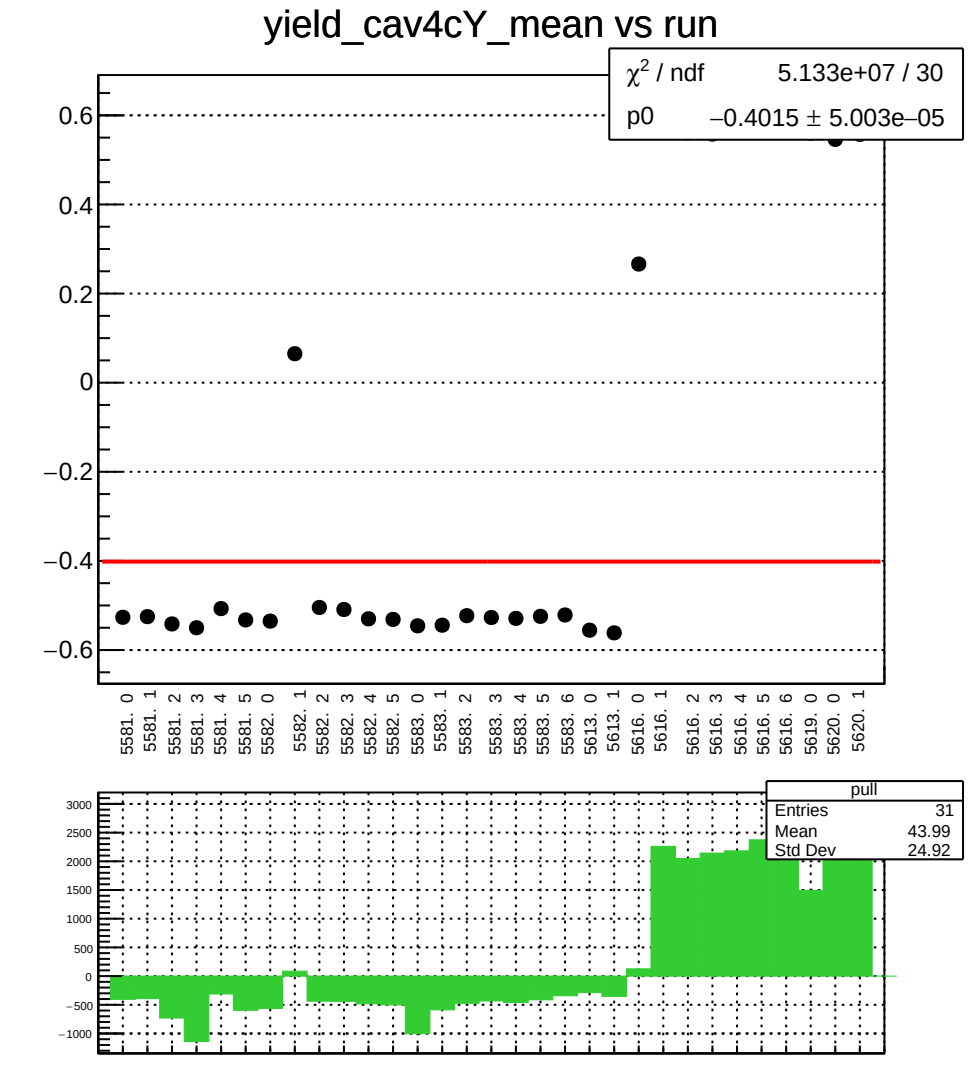

pull1D
Entries 31
Mean 0
Std Dev 0

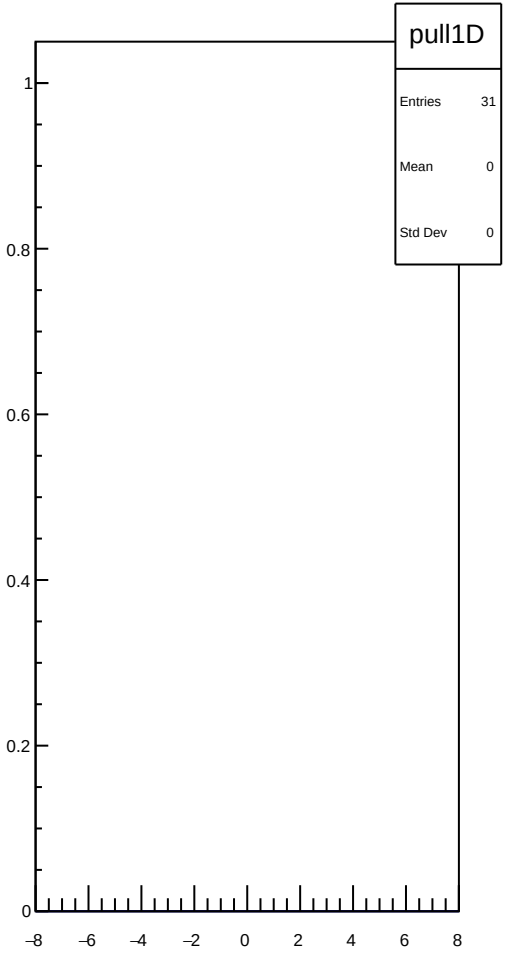

yield_cav4bY_rms vs run
χ² / ndf 2.549e+05 / 30
p0 6.73e−05 ± 1.135e−07
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

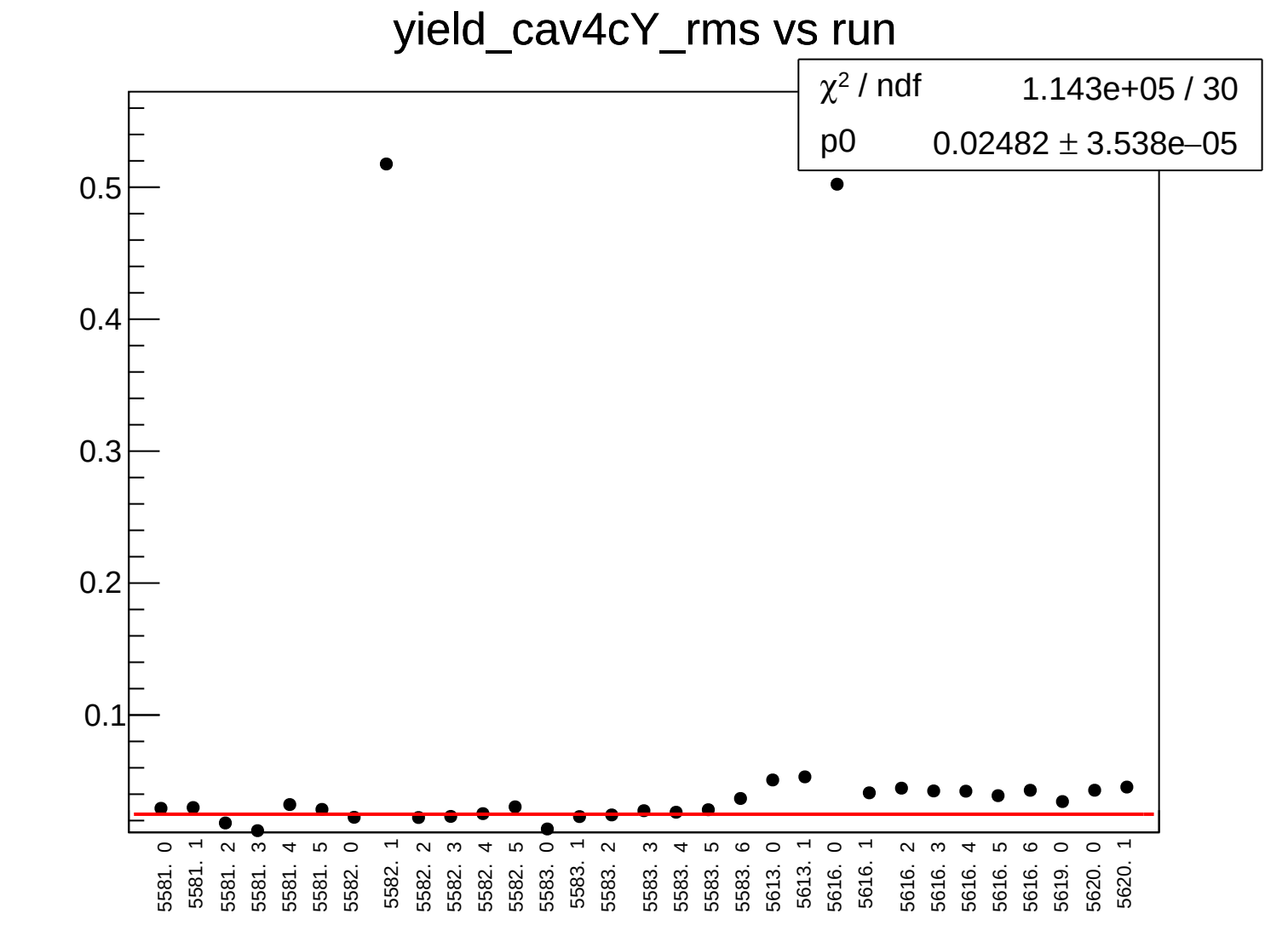

yield_cav4cX_mean vs run
χ² / ndf 9.997e+07 / 30
p0 −0.2738 ± 4.064e−05
0.6
0.4
0.2
0
−0.2
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 52.26
Std Dev 33.59
3000
2000
1000
0
−1000
−2000

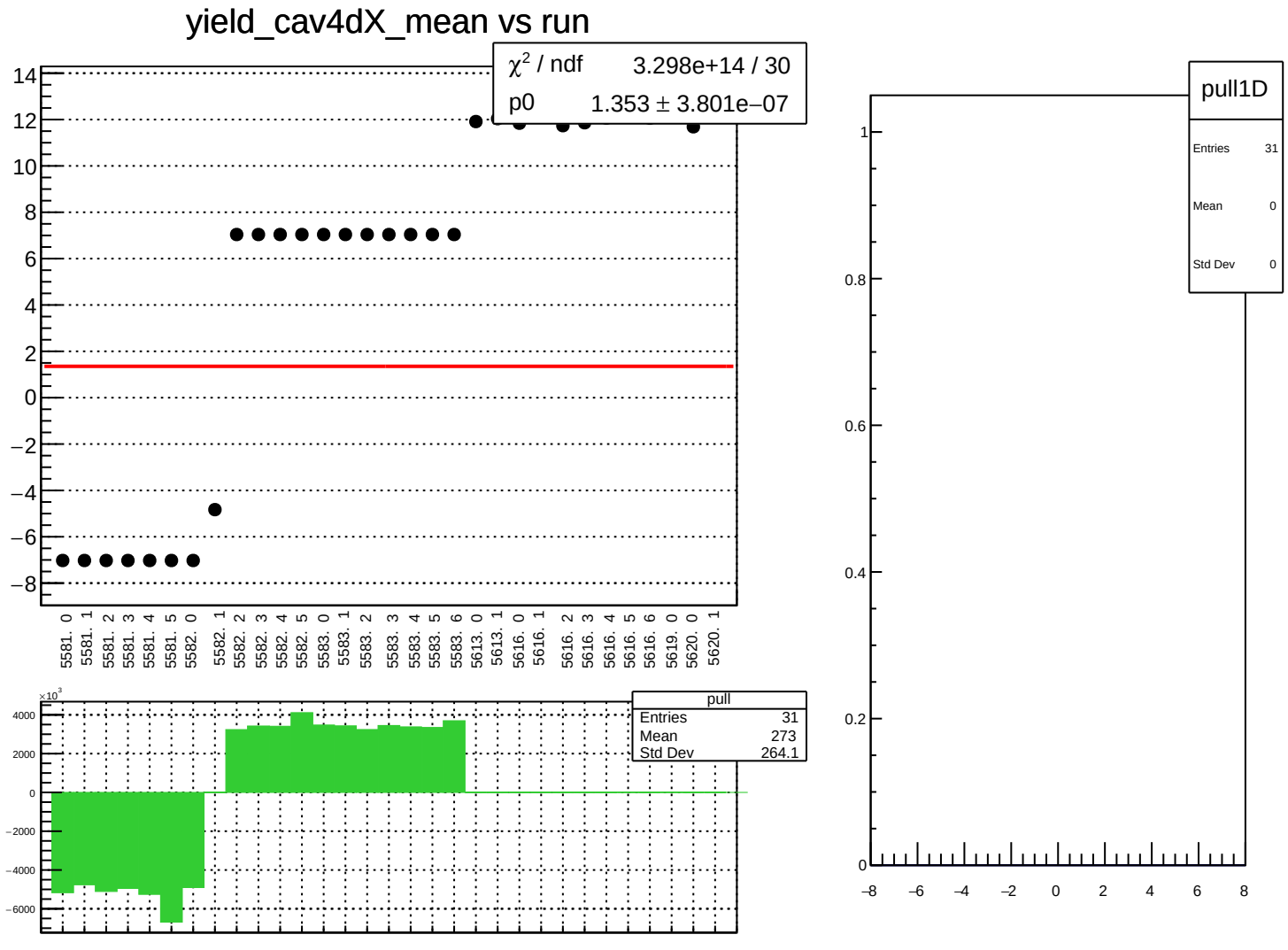

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

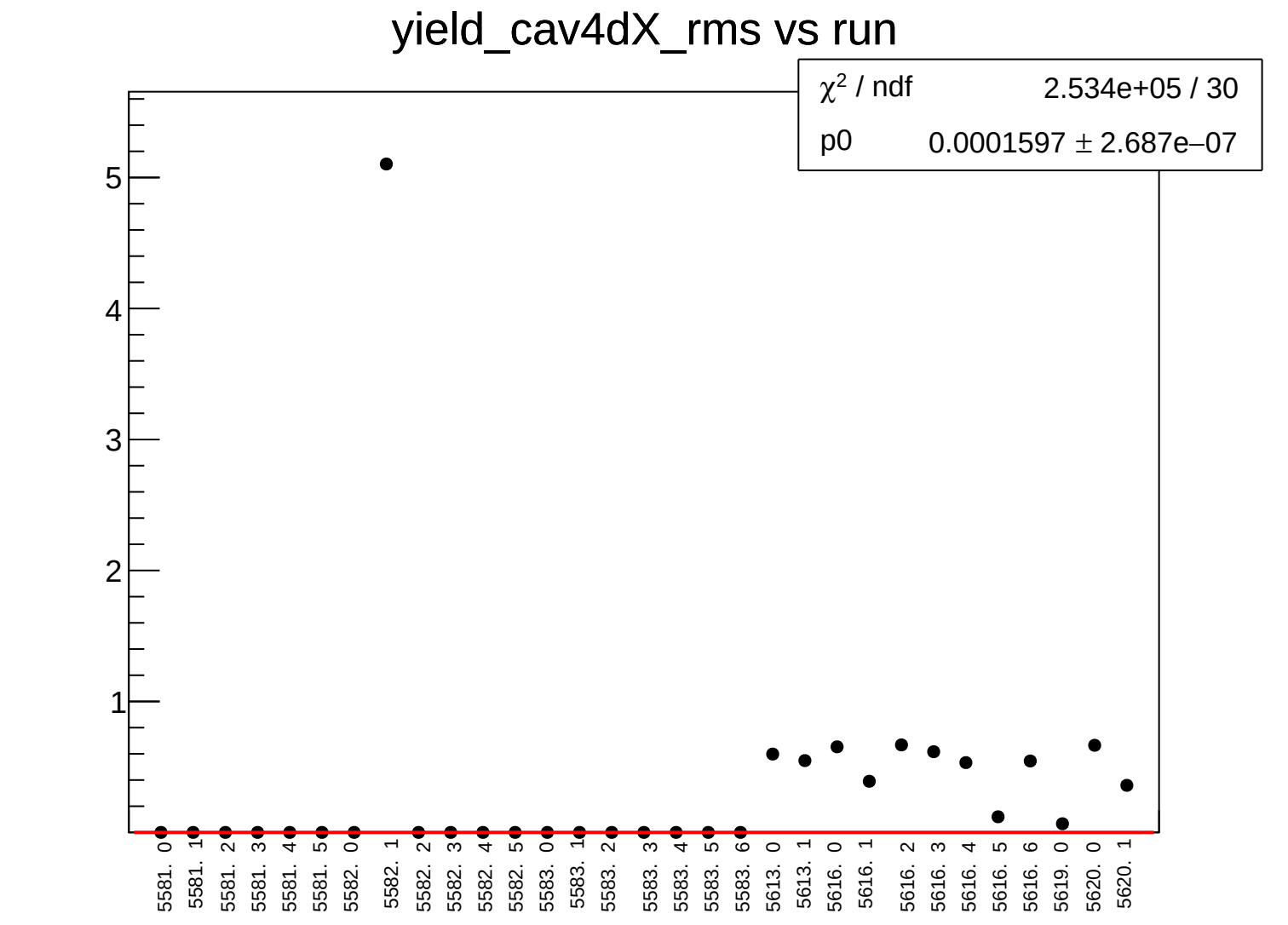

yield_cav4cX_rms vs run
χ² / ndf 1.16e+05 / 30
p0 0.02013 ± 2.873e−05
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

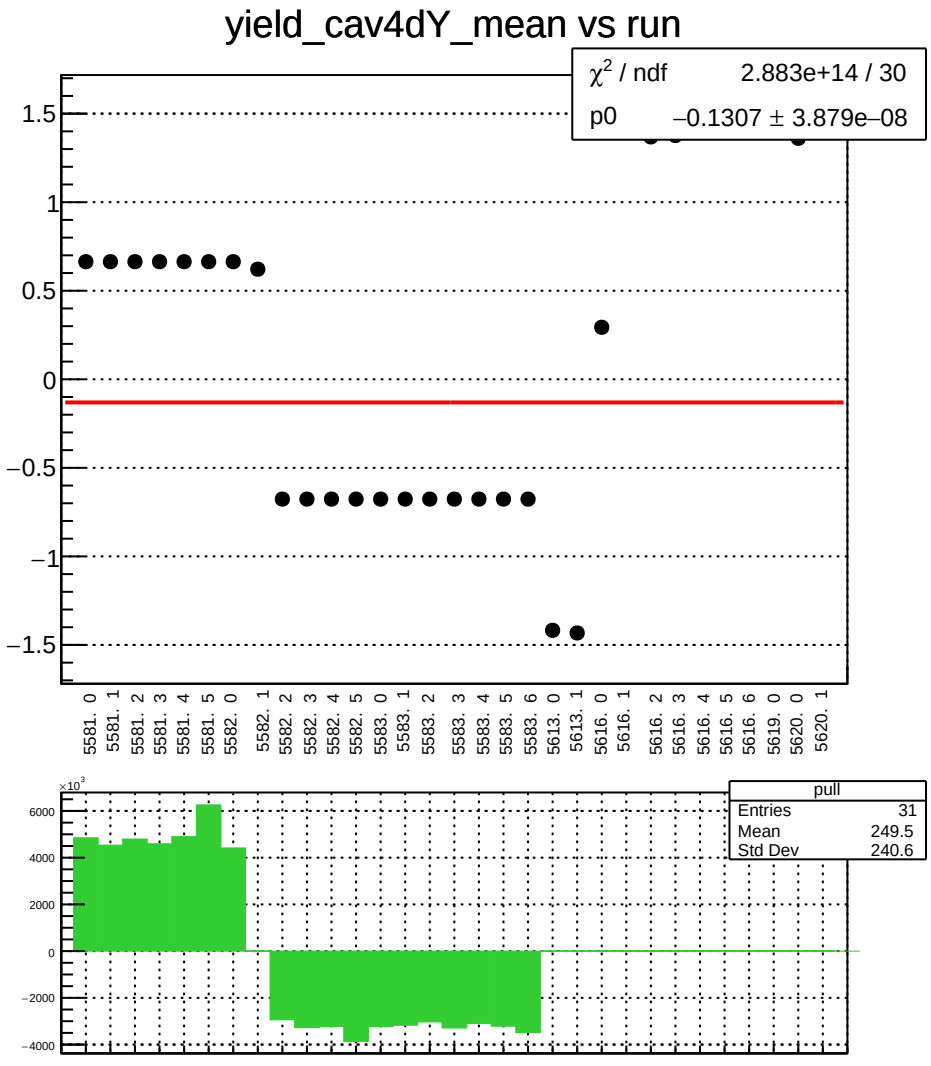

yield_cav4cY_mean vs run
χ² / ndf 5.133e+07 / 30
p0 −0.4015 ± 5.003e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.99
Std Dev 24.92
3000
2500
2000
1500
1000
500
0
−500
−1000

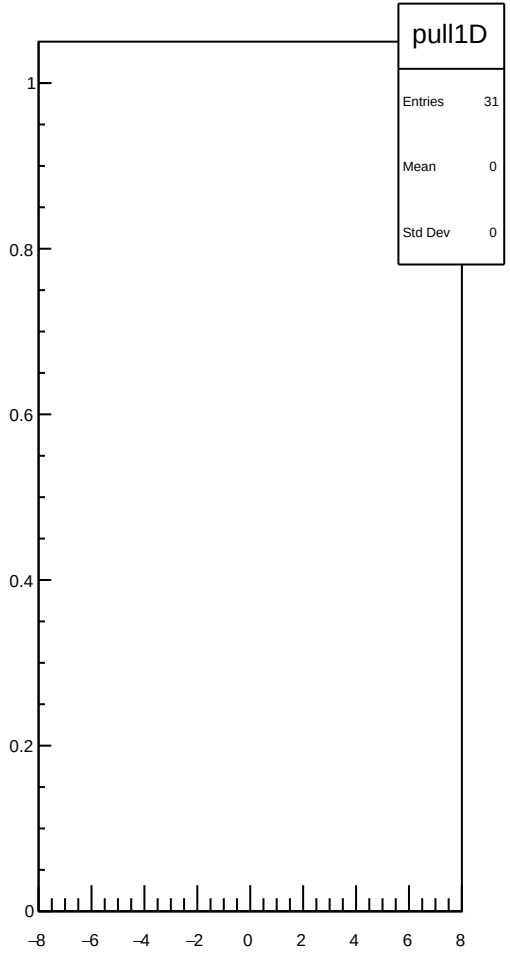

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

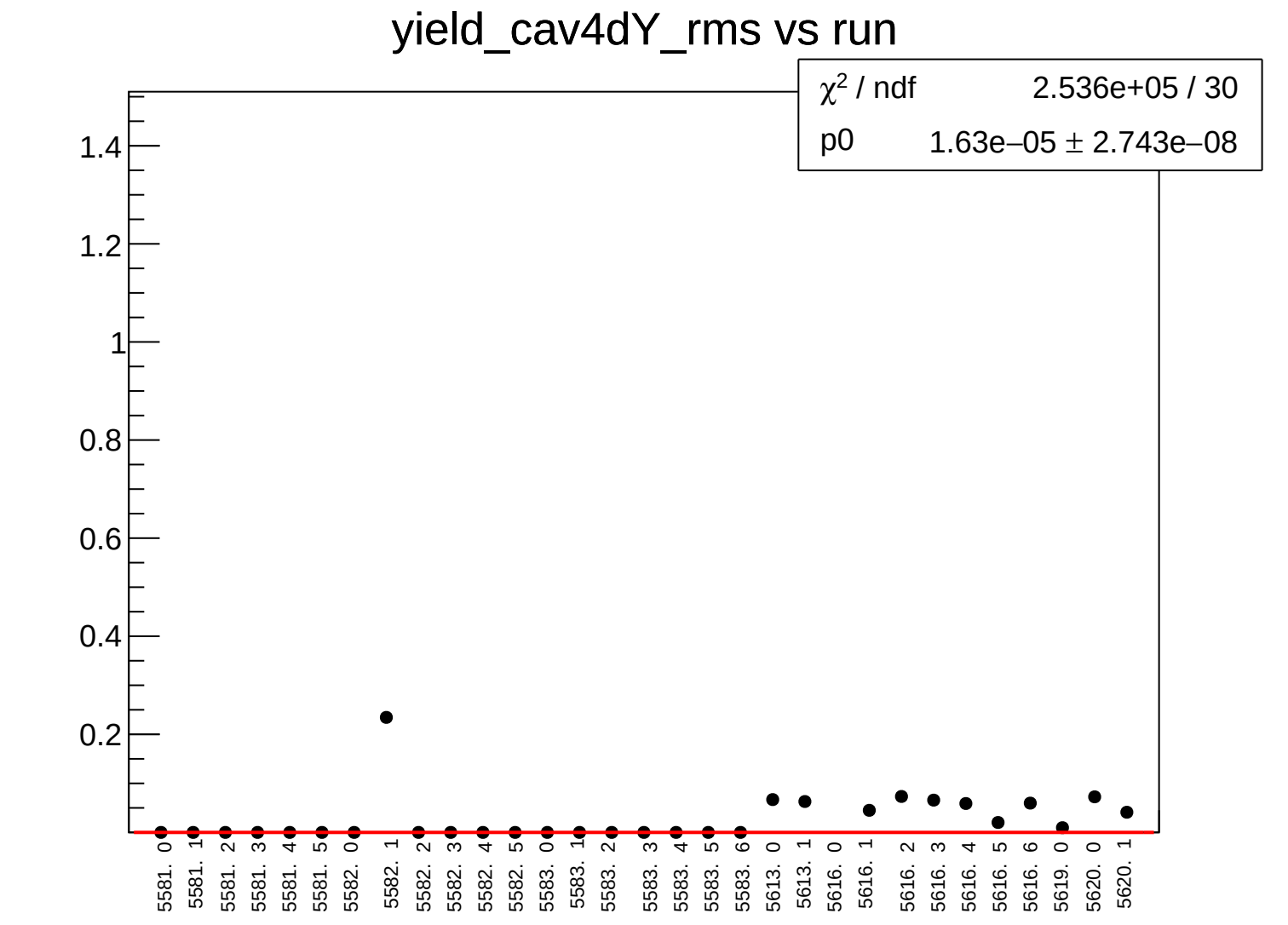

yield_cav4cY_rms vs run
χ² / ndf 1.143e+05 / 30
p0 0.02482 ± 3.538e–05
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

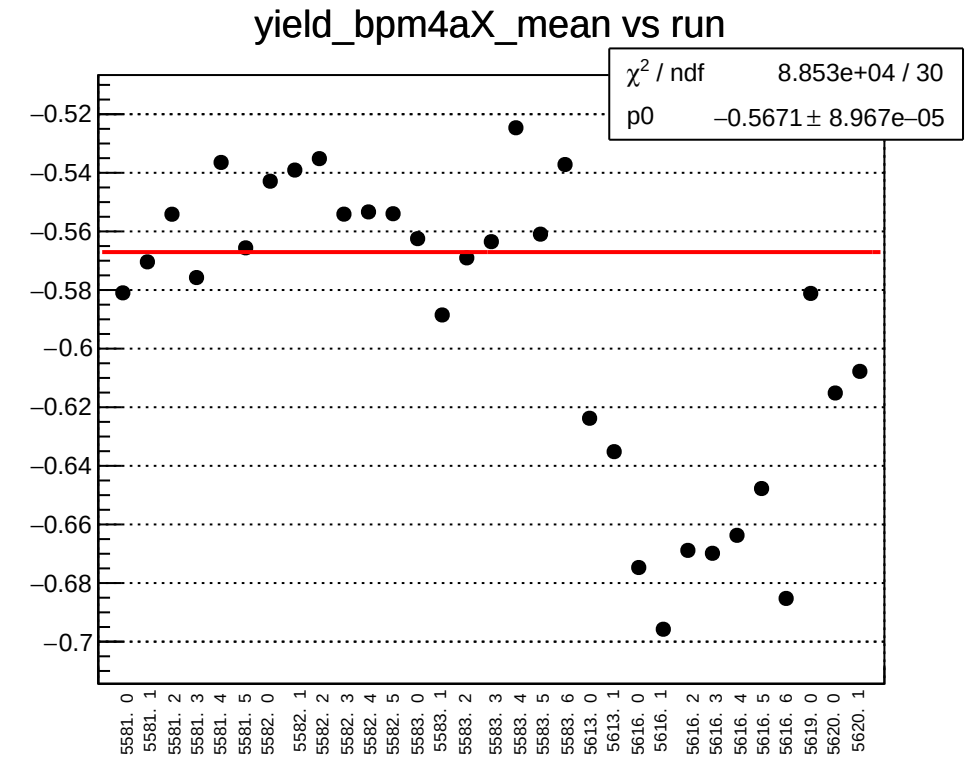

yield_cav4dX_mean vs run
χ² / ndf 3.298e+14 / 30
p0 1.353 ± 3.801e−07
pull
Entries 31
Mean 273
Std Dev 264.1
pull1D
Entries 31
Mean 0
Std Dev 0

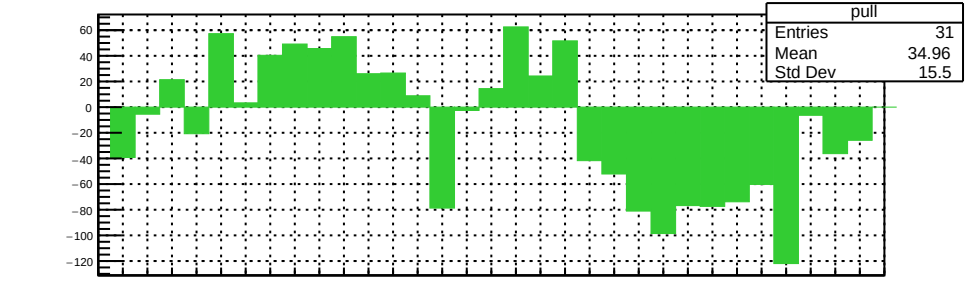

yield_cav4dX_rms vs run
χ² / ndf 2.534e+05 / 30
p0 0.0001597 ± 2.687e−07
5
4
3
2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

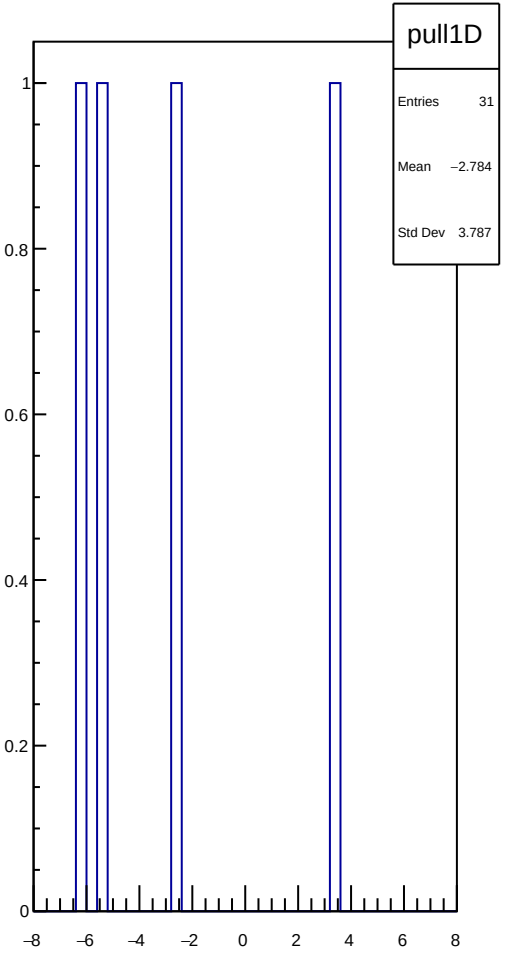

yield_cav4dY_mean vs run
χ² / ndf 2.883e+14 / 30
p0 −0.1307 ± 3.879e−08
1.5
1
0.5
0
−0.5
−1
−1.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
×10³
6000
4000
2000
0
−2000
−4000
pull
Entries 31
Mean 249.5
Std Dev 240.6

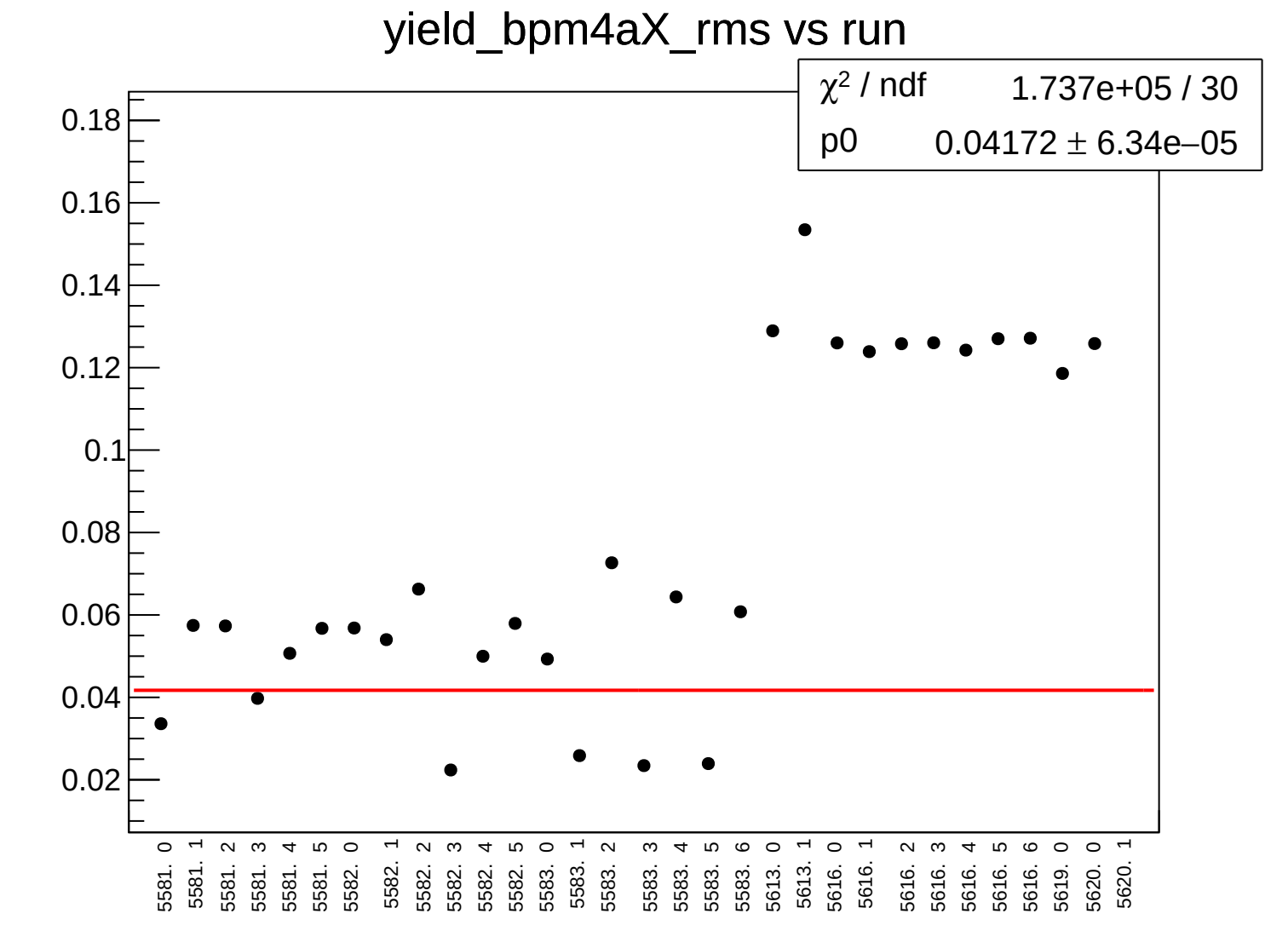

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

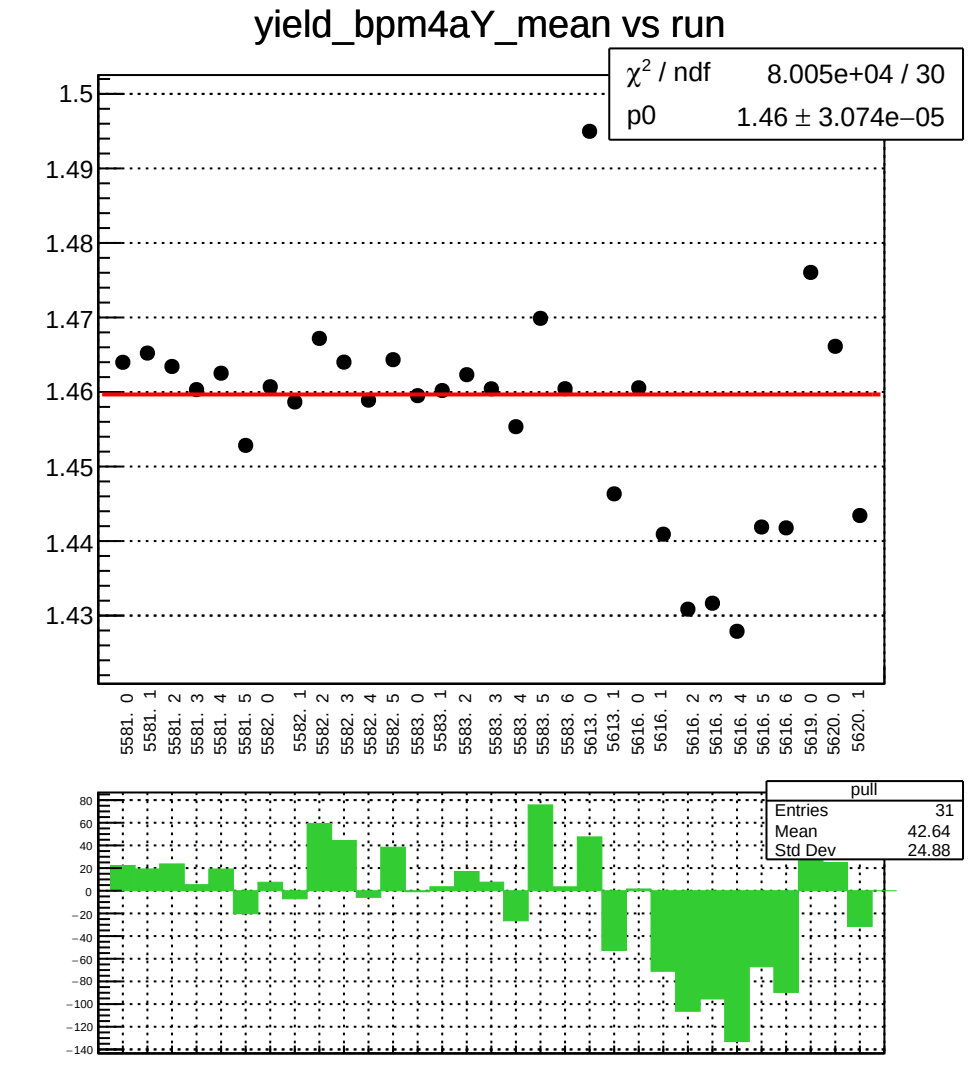

yield_cav4dY_rms vs run
χ² / ndf 2.536e+05 / 30
p0 1.63e−05 ± 2.743e−08
1.4
1.2
1
0.8
0.6
0.4
0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

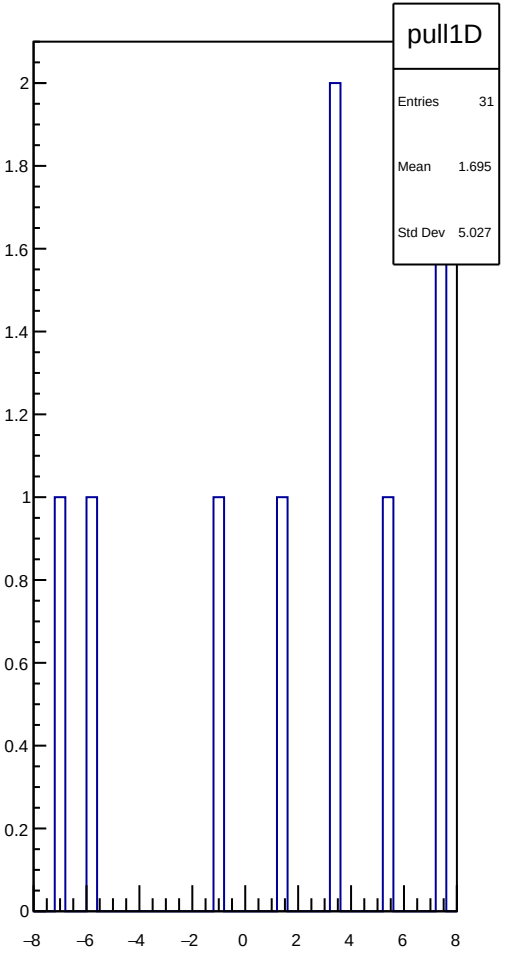

yield_bpm4aX_mean vs run
χ² / ndf 8.853e+04 / 30
p0 −0.5671 ± 8.967e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

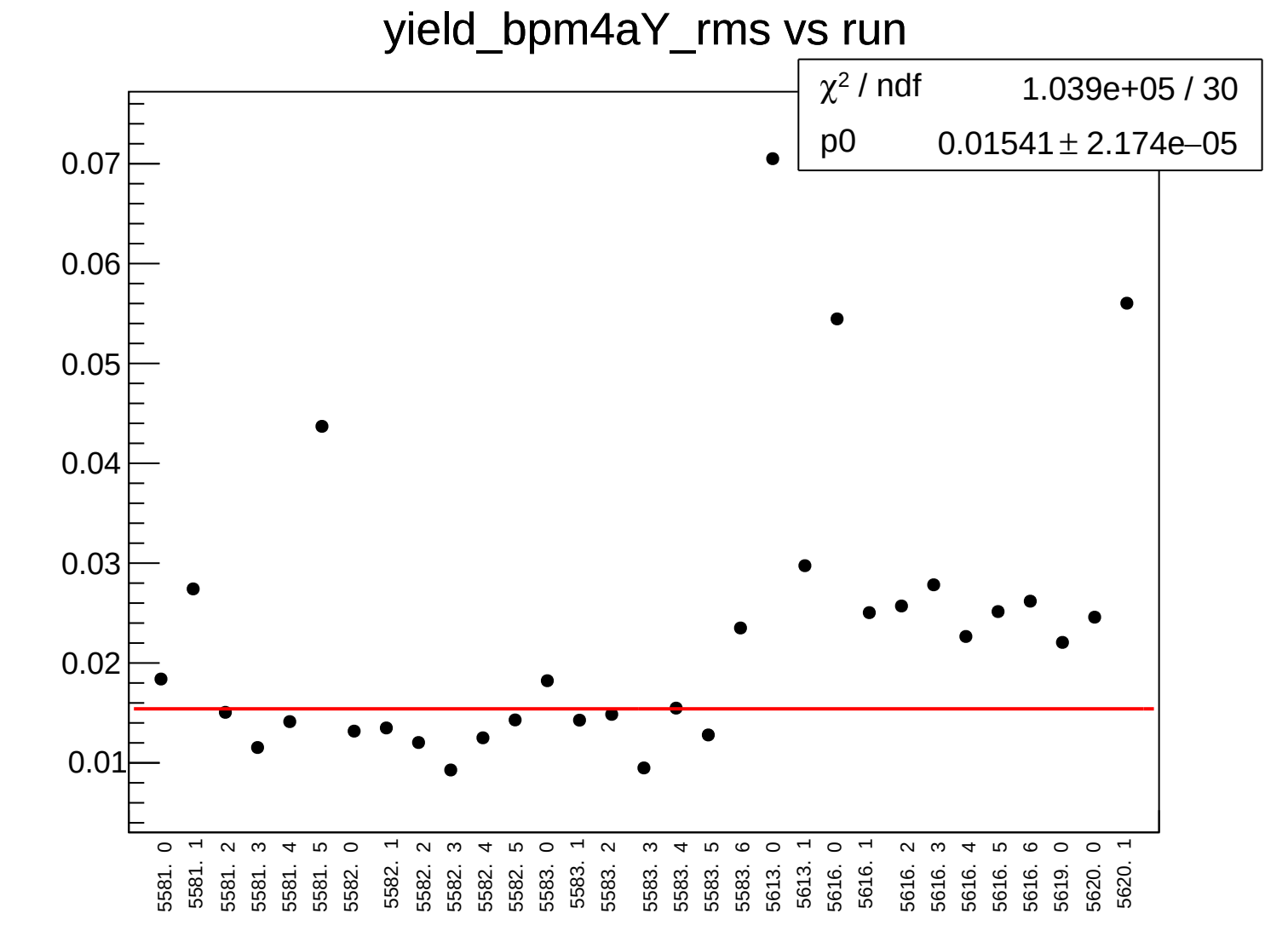

pull
Entries 31
Mean 34.96
Std Dev 15.5
60
40
20
0
−20
−40
−60
−80
−100
−120

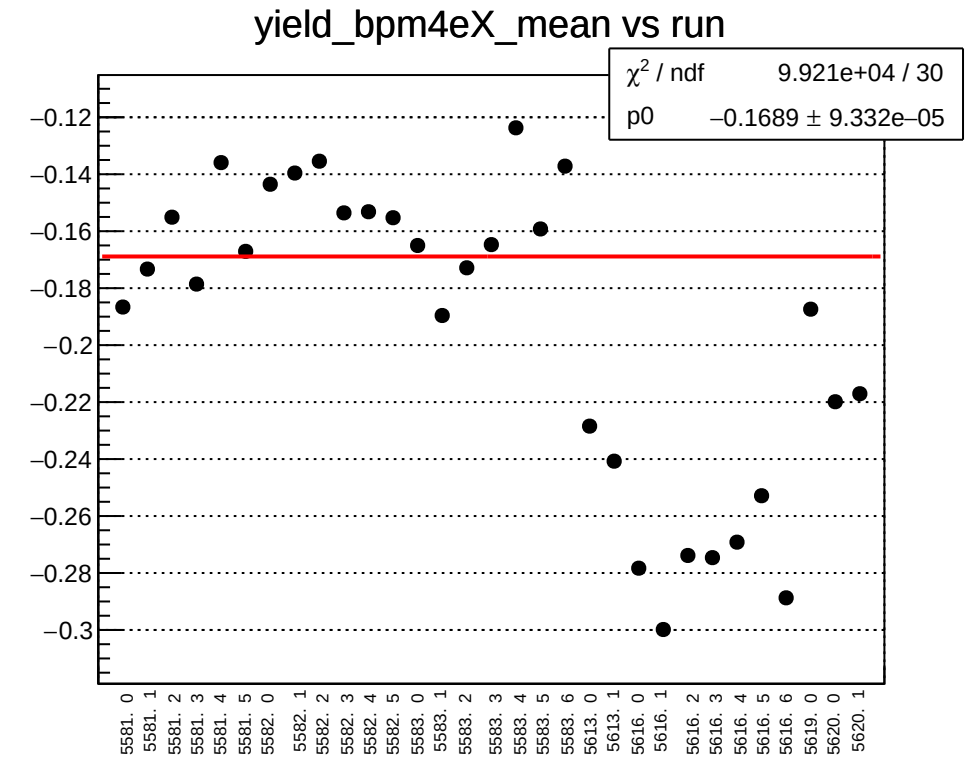

pull1D
Entries 31
Mean −2.784
Std Dev 3.787
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

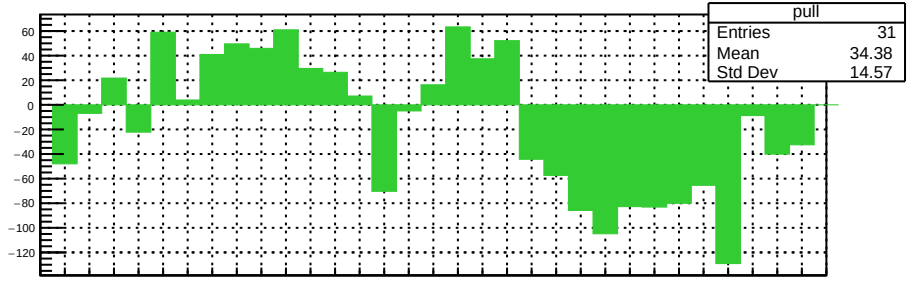

yield_bpm4aX_rms vs run
χ² / ndf 1.737e+05 / 30
p0 0.04172 ± 6.34e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

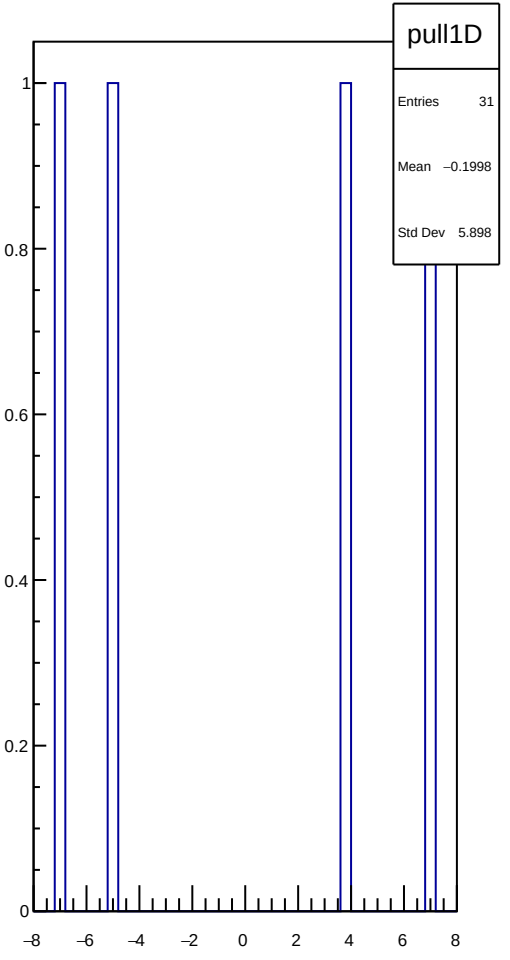

yield_bpm4aY_mean vs run
χ² / ndf 8.005e+04 / 30
p0 1.46 ± 3.074e−05
1.5
1.49
1.48
1.47
1.46
1.45
1.44
1.43
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.64
Std Dev 24.88
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

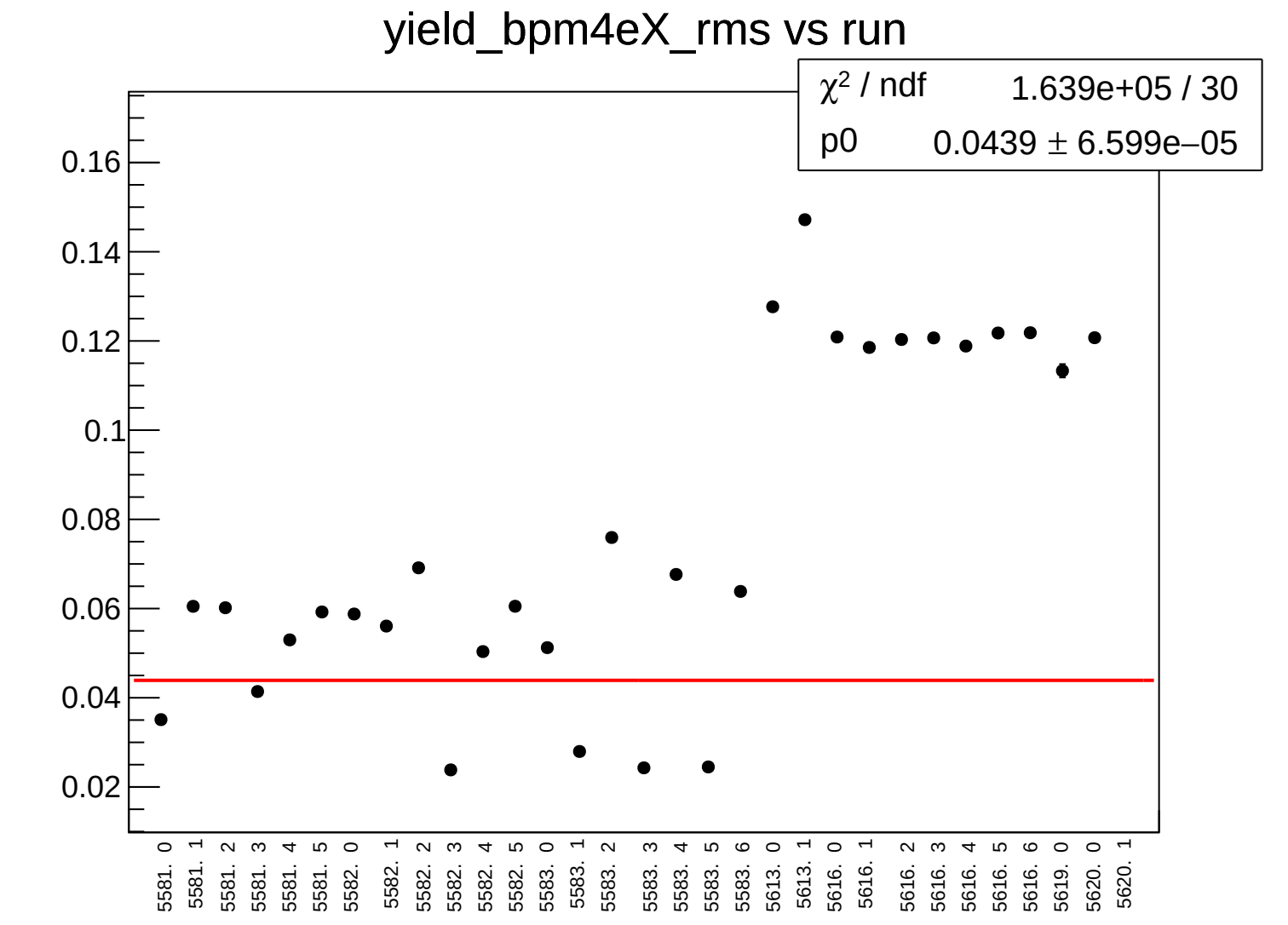

pull1D
Entries 31
Mean 1.695
Std Dev 5.027
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

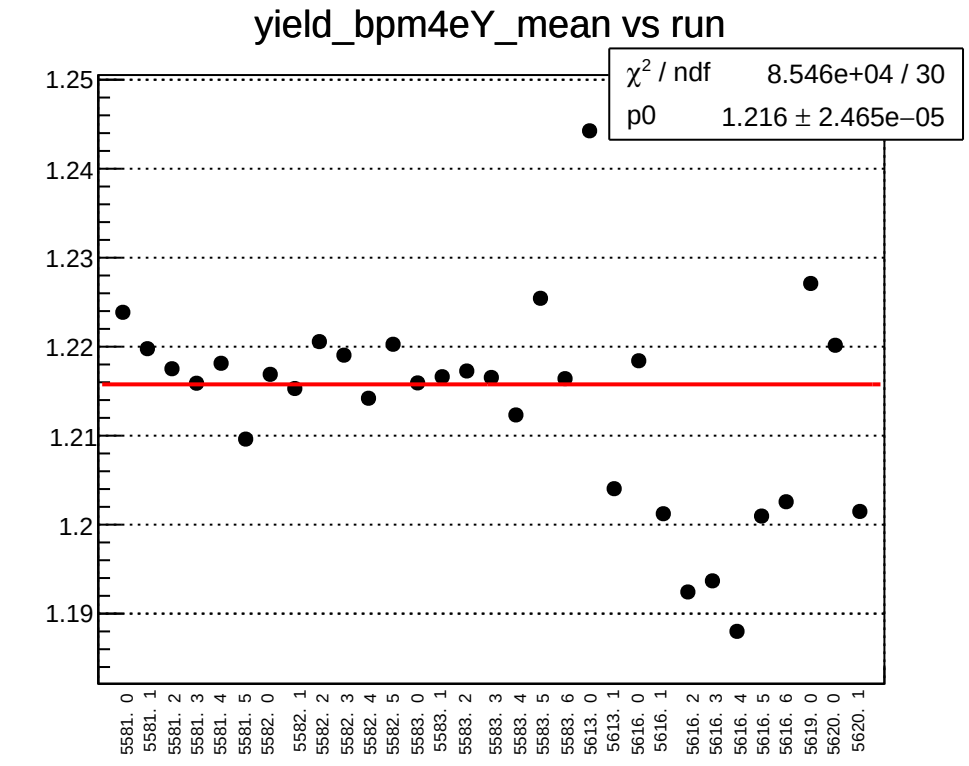

yield_bpm4aY_rms vs run
χ² / ndf 1.039e+05 / 30
p0 0.01541 ± 2.174e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

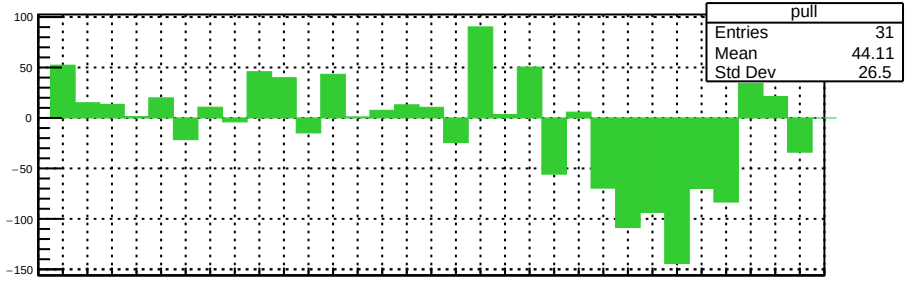

yield_bpm4eX_mean vs run
χ² / ndf 9.921e+04 / 30
p0 −0.1689 ± 9.332e−05
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

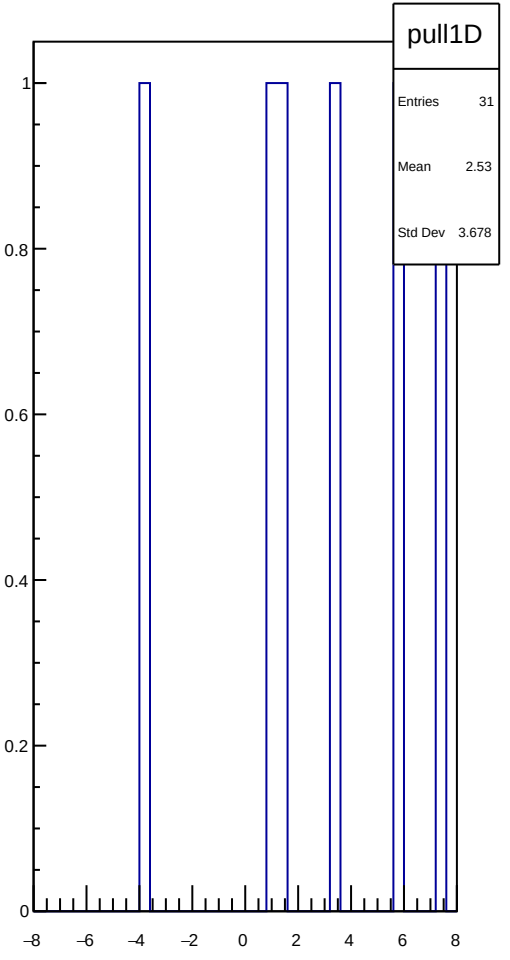

pull
Entries 31
Mean 34.38
Std Dev 14.57
60
40
20
0
−20
−40
−60
−80
−100
−120

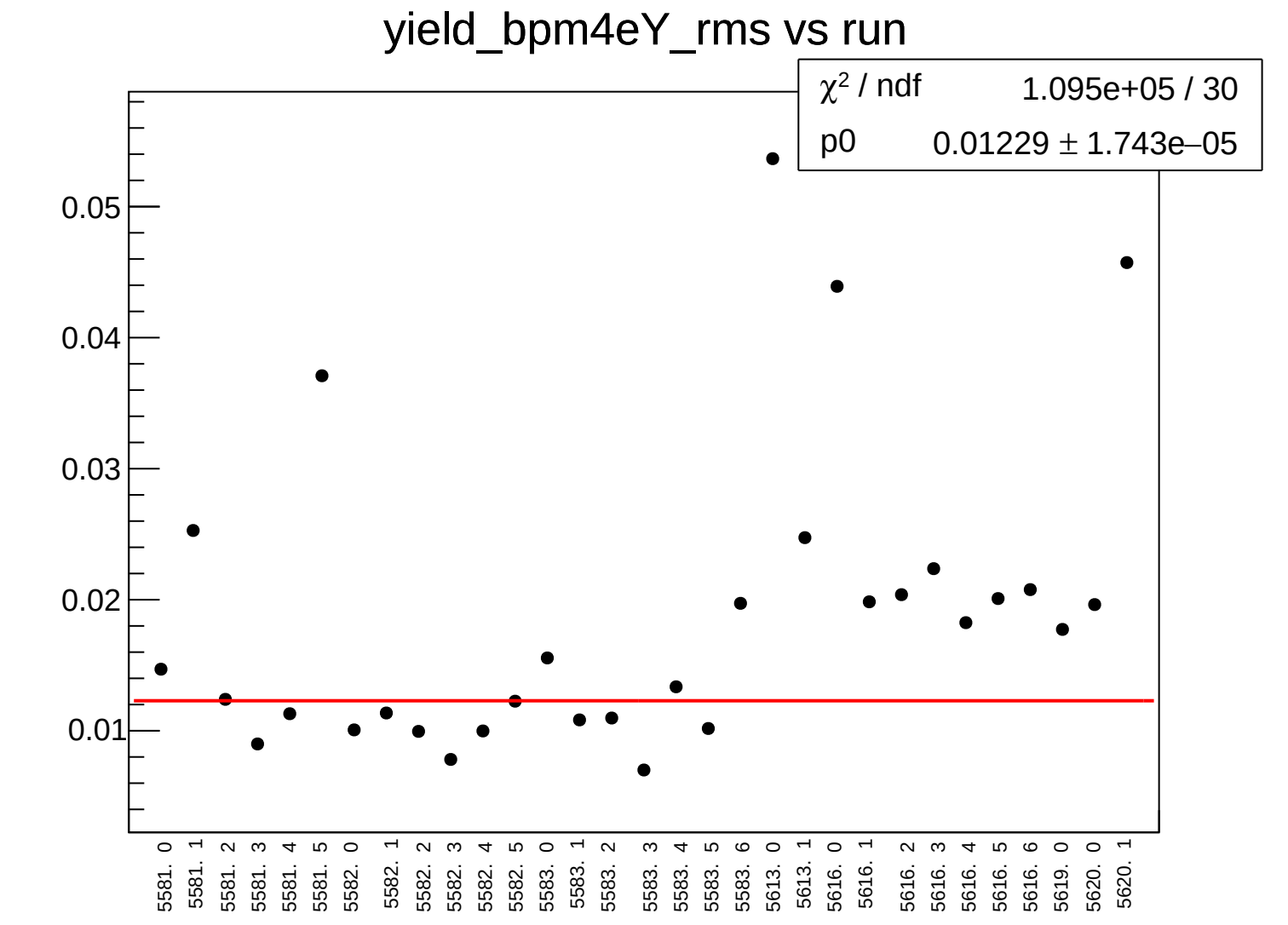

pull1D
Entries 31
Mean −0.1998
Std Dev 5.898
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

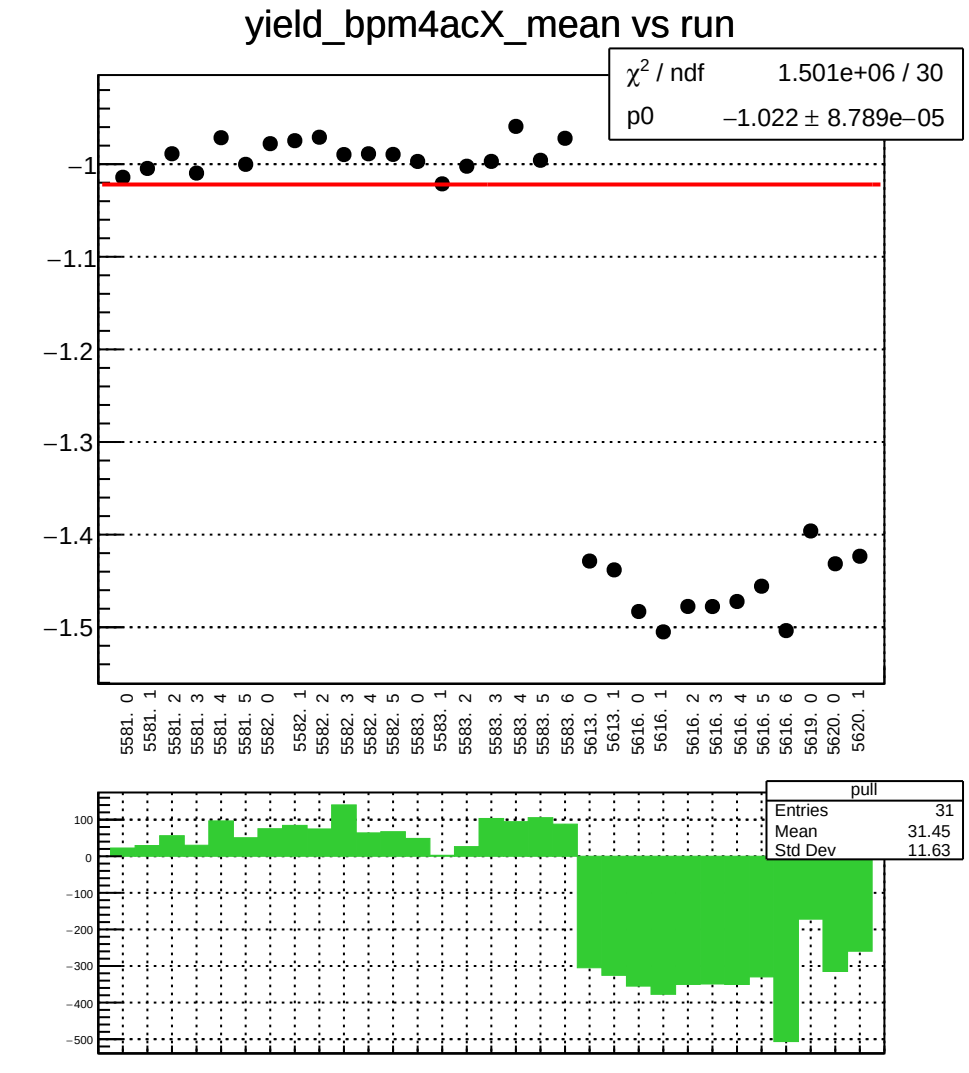

yield_bpm4eX_rms vs run
χ² / ndf 1.639e+05 / 30
p0 0.0439 ± 6.599e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

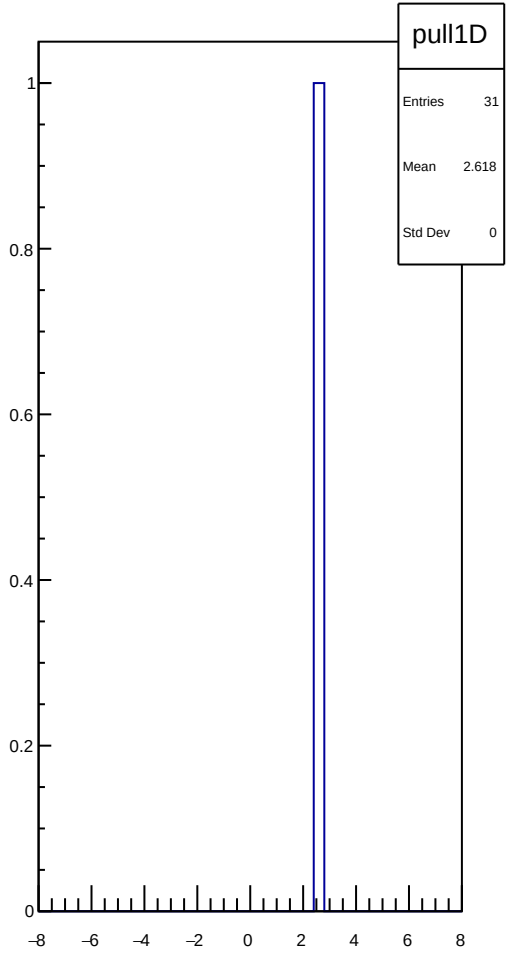

yield_bpm4eY_mean vs run
χ² / ndf 8.546e+04 / 30
p0 1.216 ± 2.465e−05
1.25
1.24
1.23
1.22
1.21
1.2
1.19
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

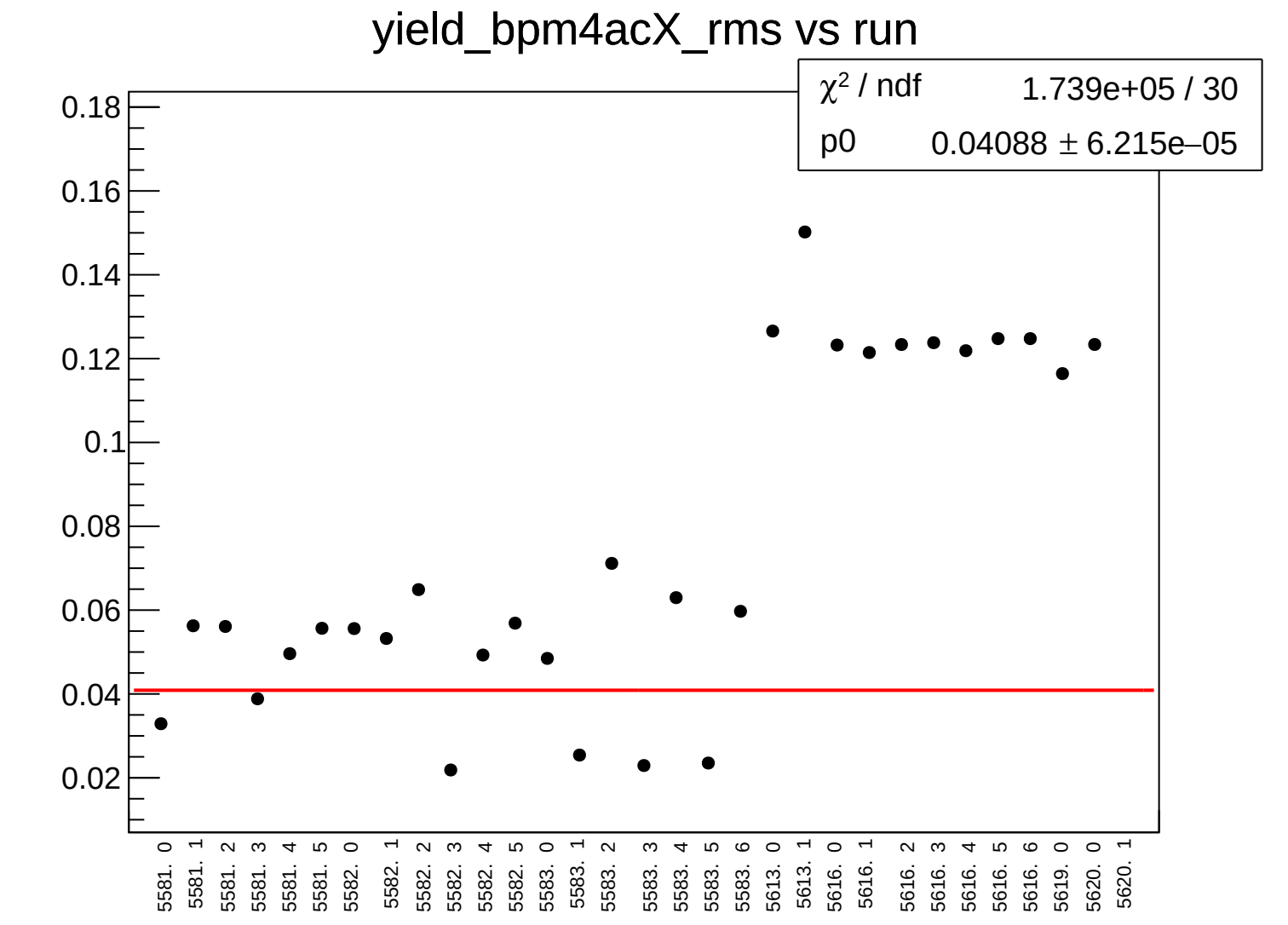

pull
Entries 31
Mean 44.11
Std Dev 26.5
100
50
0
−50
−100
−150

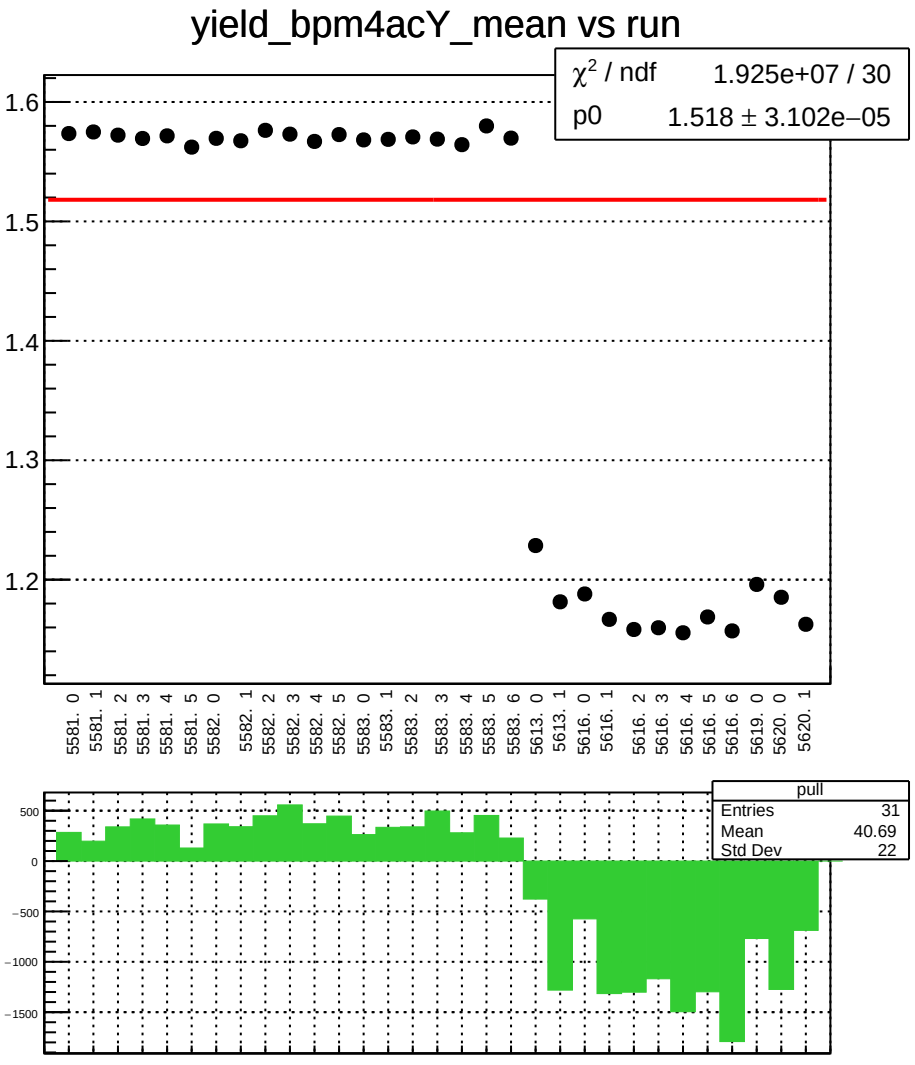

pull1D
Entries 31
Mean 2.53
Std Dev 3.678
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

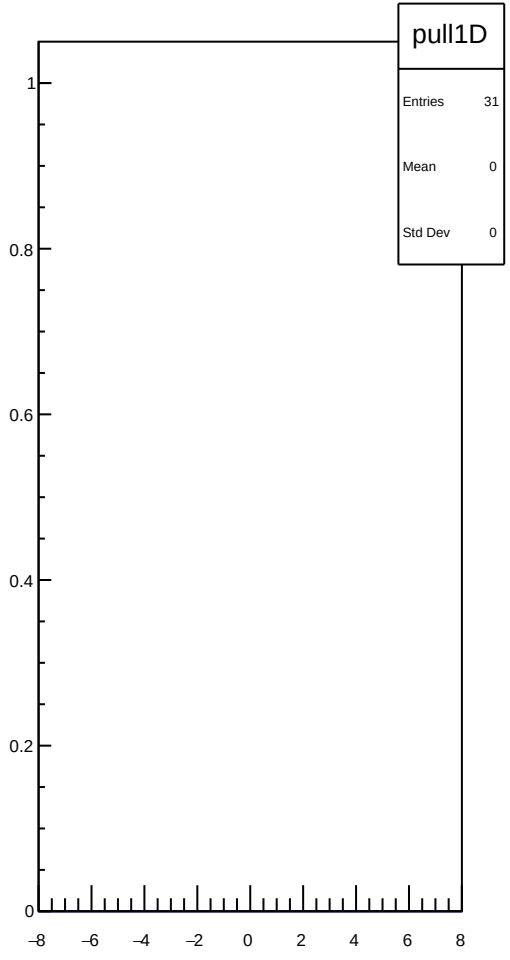

yield_bpm4eY_rms vs run
χ² / ndf 1.095e+05 / 30
p0 0.01229 ± 1.743e–05
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

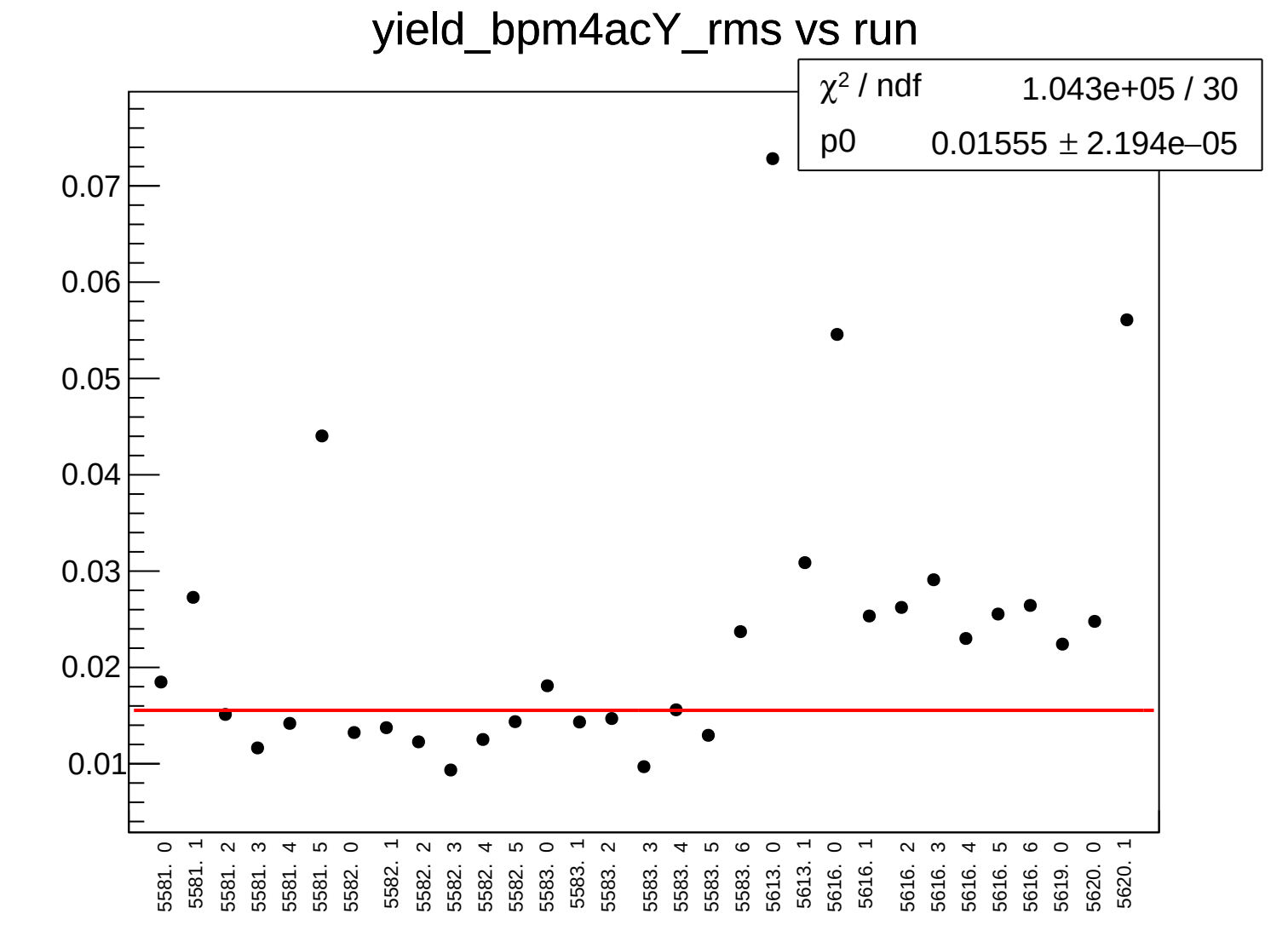

yield_bpm4acX_mean vs run
χ² / ndf 1.501e+06 / 30
p0 −1.022 ± 8.789e−05
−1
−1.1
−1.2
−1.3
−1.4
−1.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 31.45
Std Dev 11.63
100
0
−100
−200
−300
−400
−500

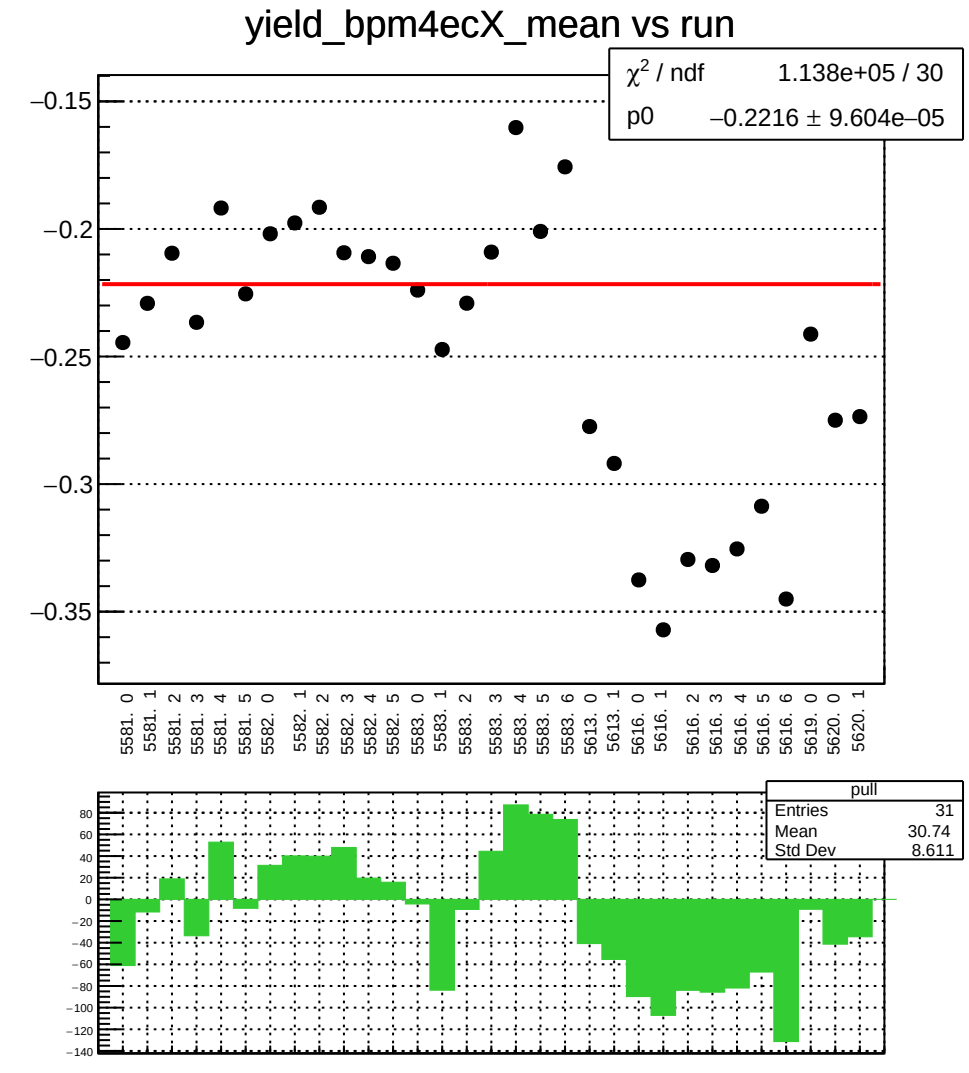

pull1D
Entries 31
Mean 2.618
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

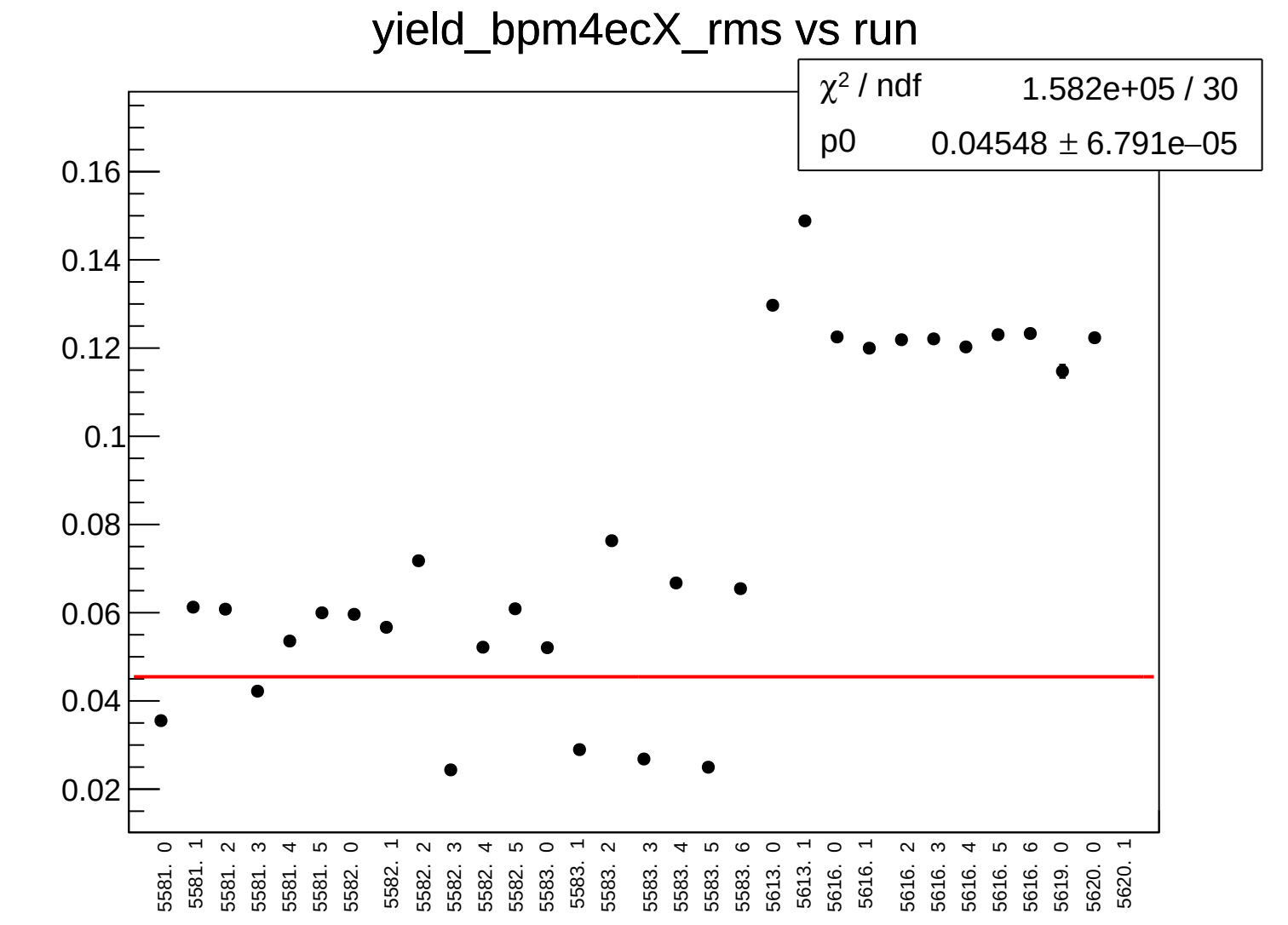

yield_bpm4acX_rms vs run
χ² / ndf 1.739e+05 / 30
p0 0.04088 ± 6.215e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

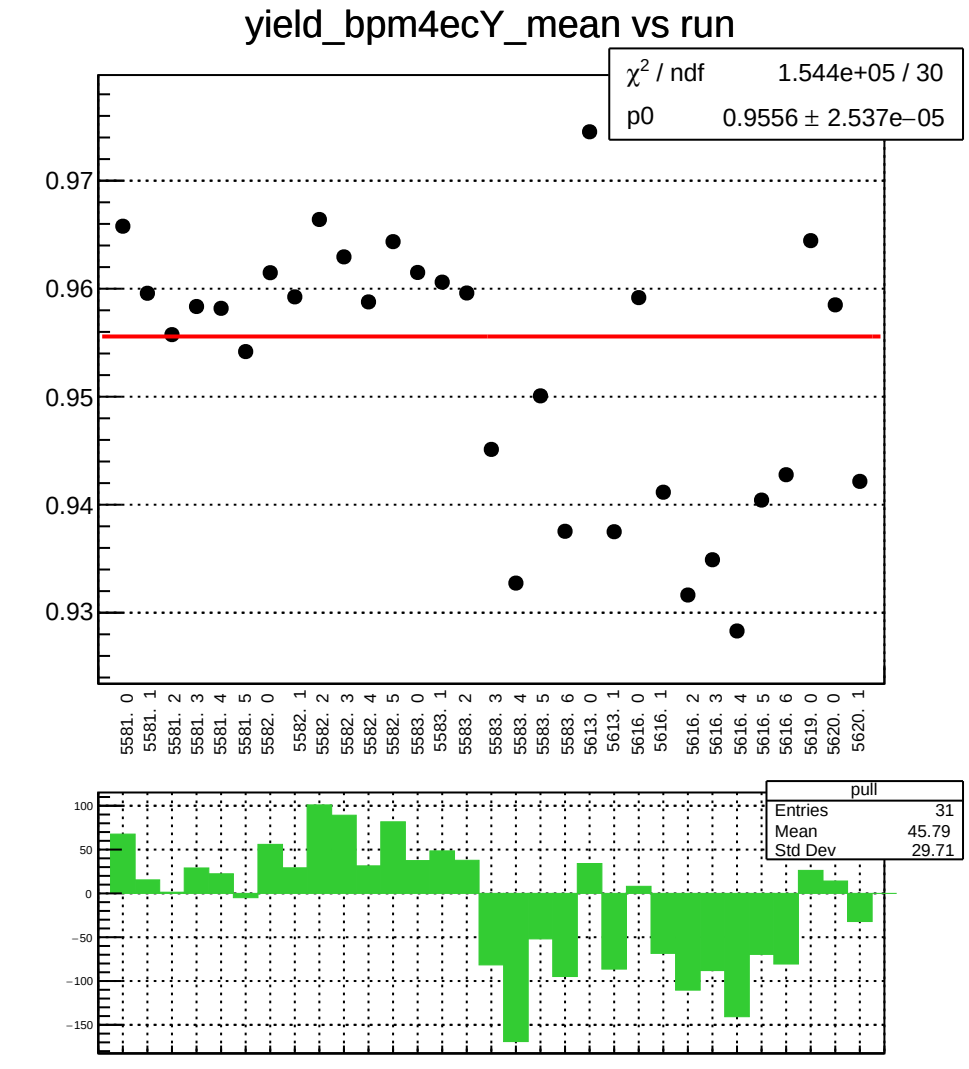

yield_bpm4acY_mean vs run
χ² / ndf 1.925e+07 / 30
p0 1.518 ± 3.102e−05
1.6
1.5
1.4
1.3
1.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.69
Std Dev 22
500
0
−500
−1000
−1500

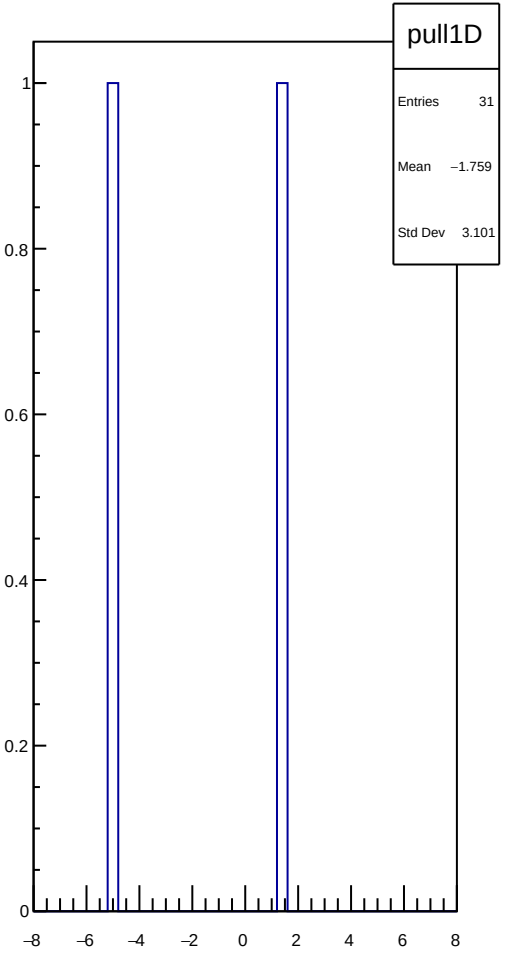

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

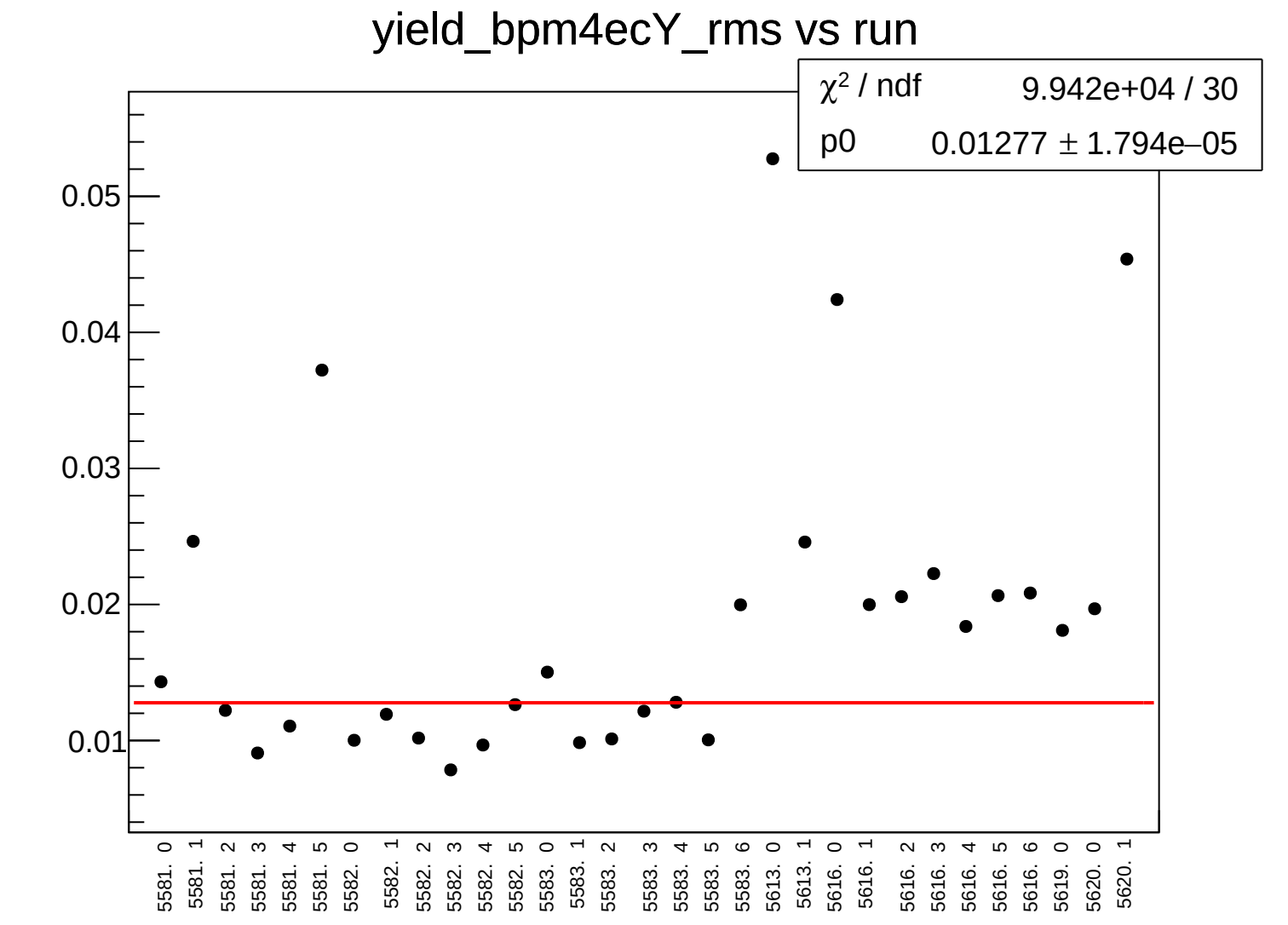

yield_bpm4acY_rms vs run
χ² / ndf 1.043e+05 / 30
p0 0.01555 ± 2.194e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

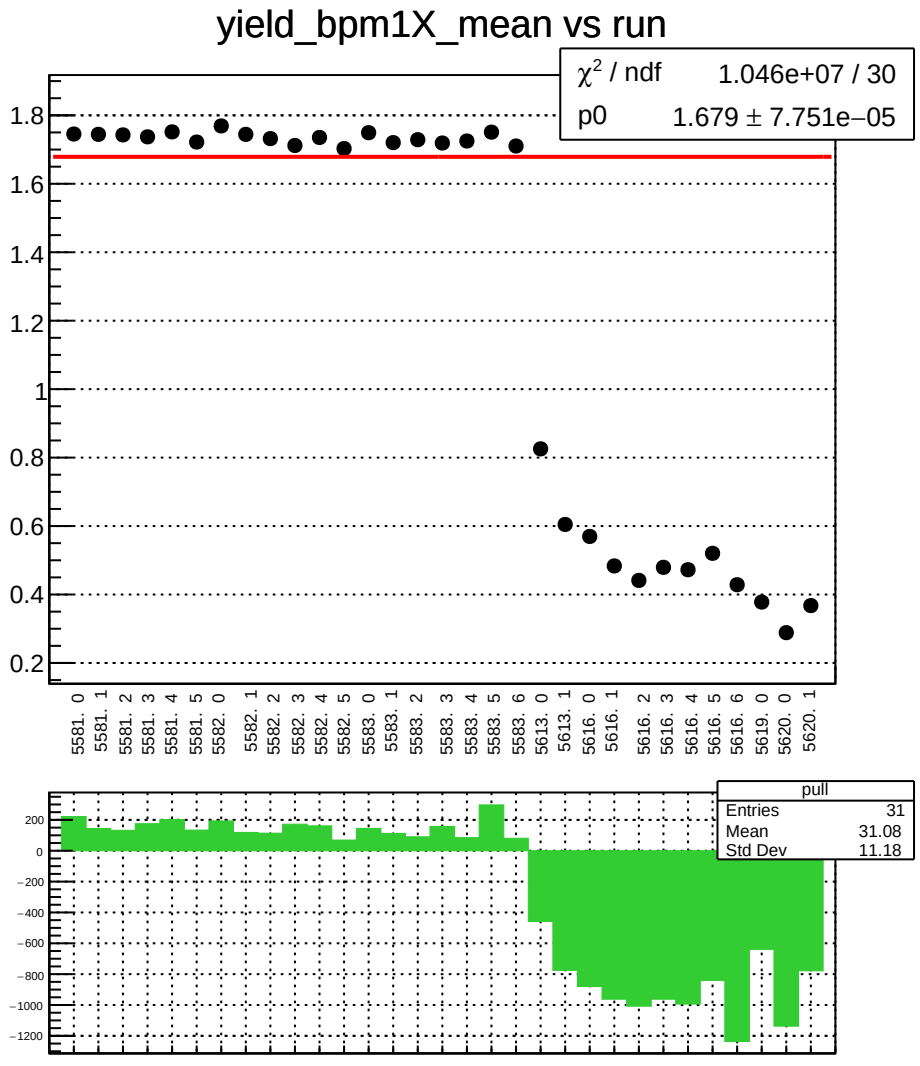

yield_bpm4ecX_mean vs run
χ² / ndf 1.138e+05 / 30
p0 −0.2216 ± 9.604e−05
−0.15
−0.2
−0.25
−0.3
−0.35
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.74
Std Dev 8.611
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
pull1D
Entries 31
Mean −4.232
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

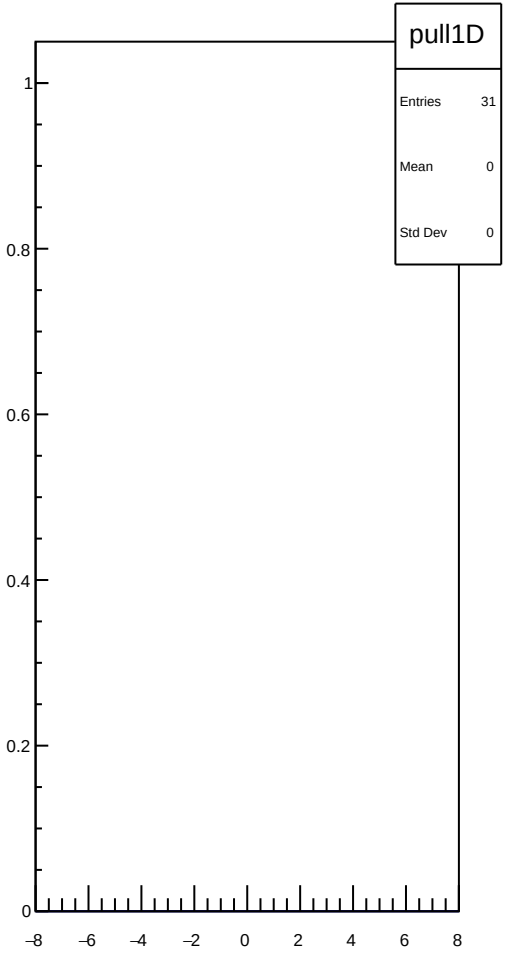

yield_bpm4ecX_rms vs run
χ² / ndf 1.582e+05 / 30
p0 0.04548 ± 6.791e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

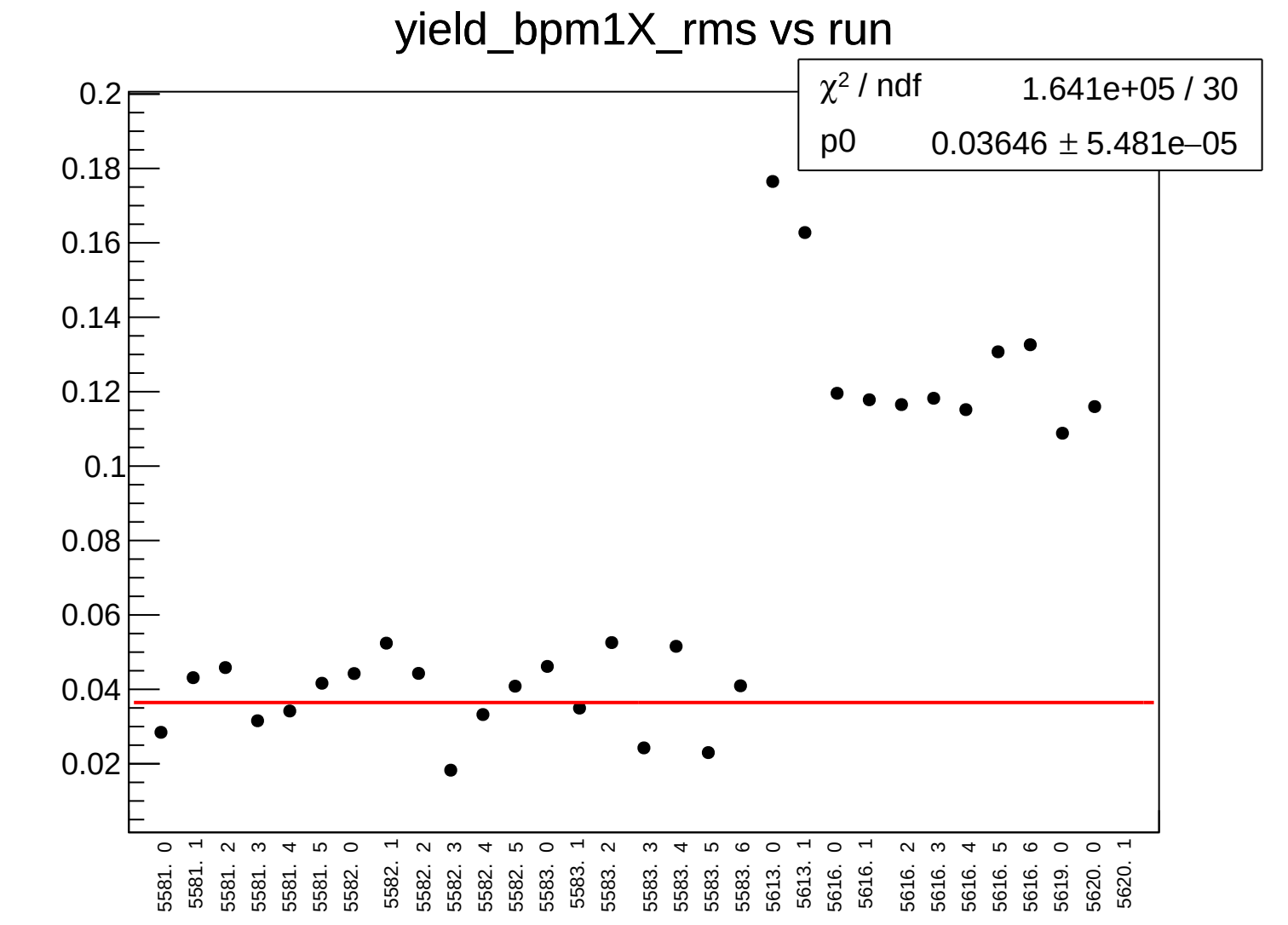

yield_bpm4ecY_mean vs run
χ² / ndf 1.544e+05 / 30
p0 0.9556 ± 2.537e−05
0.97
0.96
0.95
0.94
0.93
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 45.79
Std Dev 29.71
100
50
0
−50
−100
−150

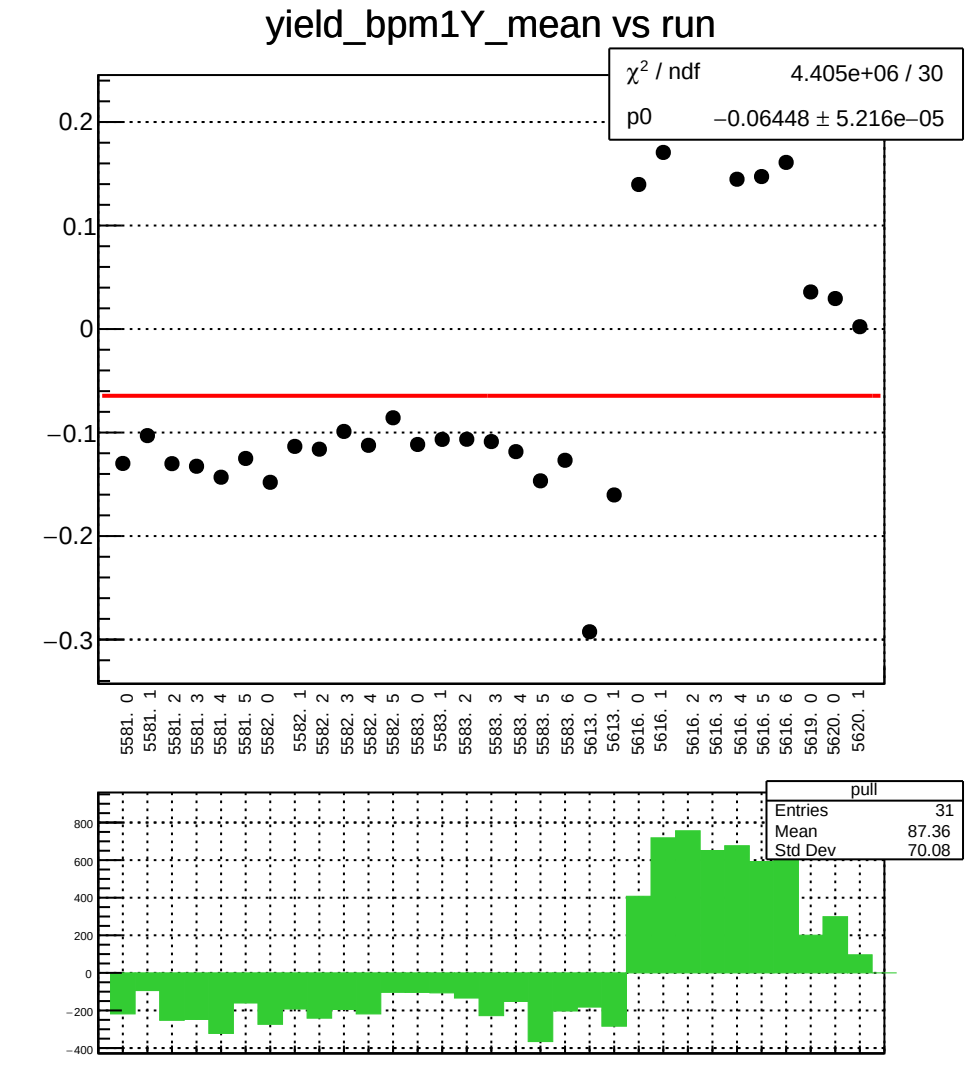

pull1D
Entries 31
Mean −1.759
Std Dev 3.101
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

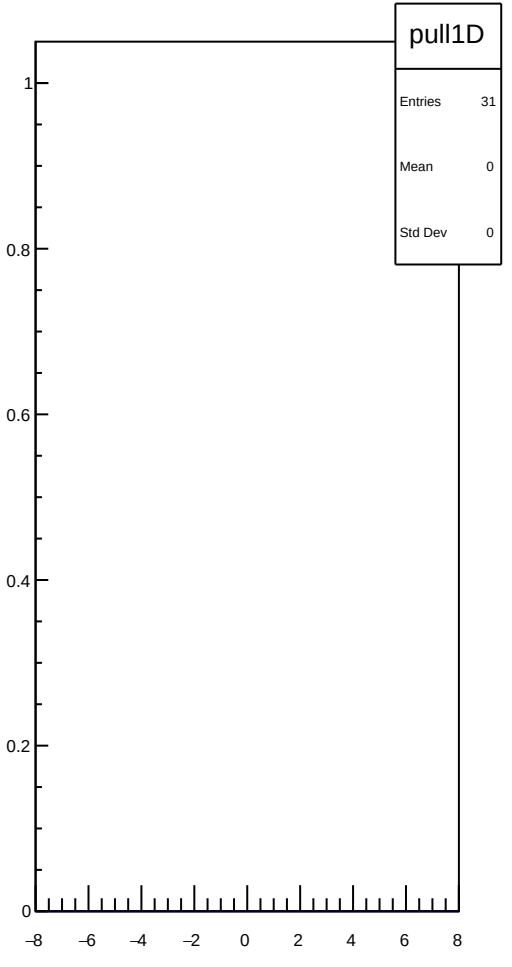

yield_bpm4ecY_rms vs run
χ² / ndf 9.942e+04 / 30
p0 0.01277 ± 1.794e−05
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

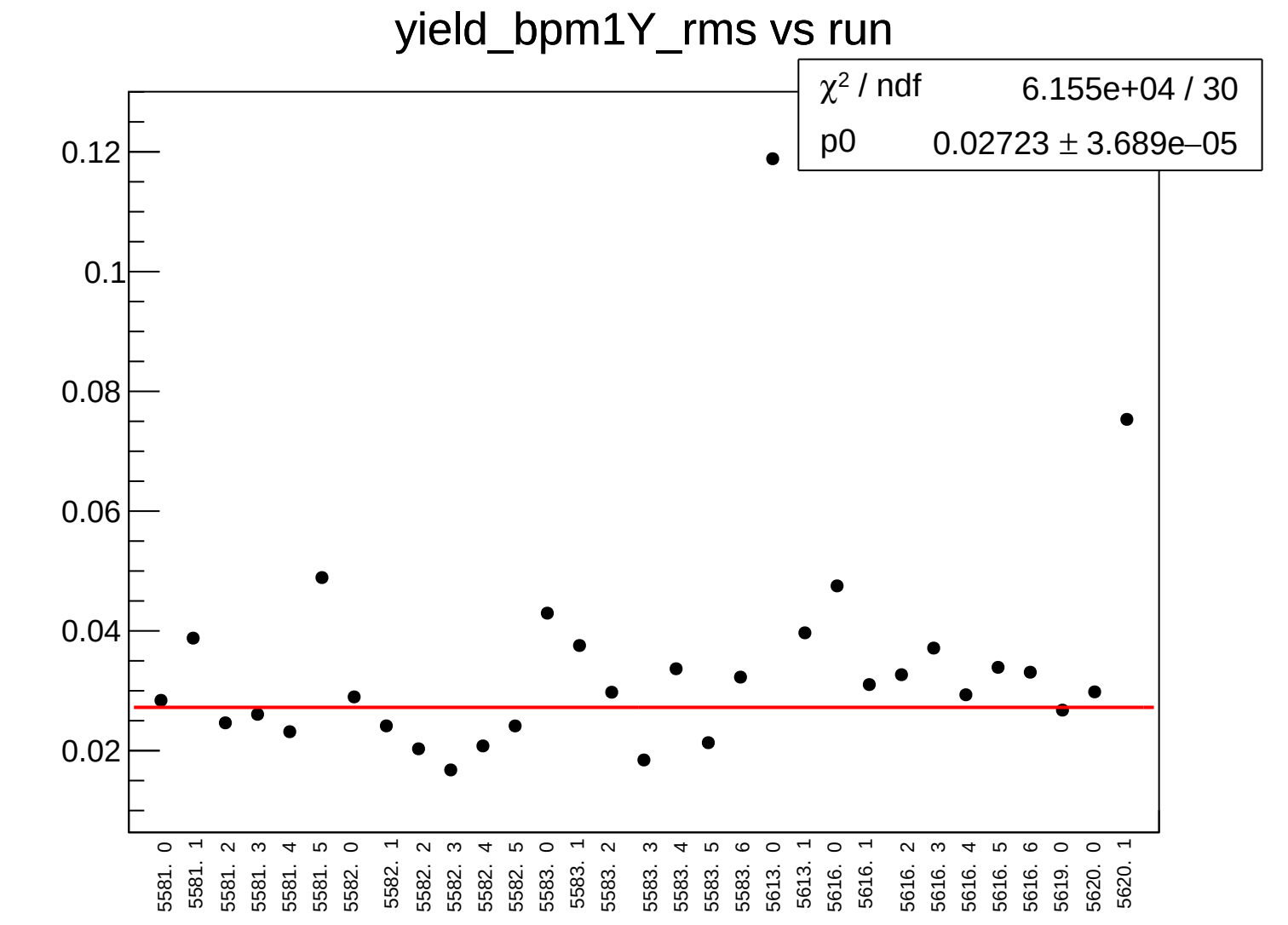

yield_bpm1X_mean vs run
χ² / ndf 1.046e+07 / 30
p0 1.679 ± 7.751e−05
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 31.08
Std Dev 11.18
200
0
−200
−400
−600
−800
−1000
−1200

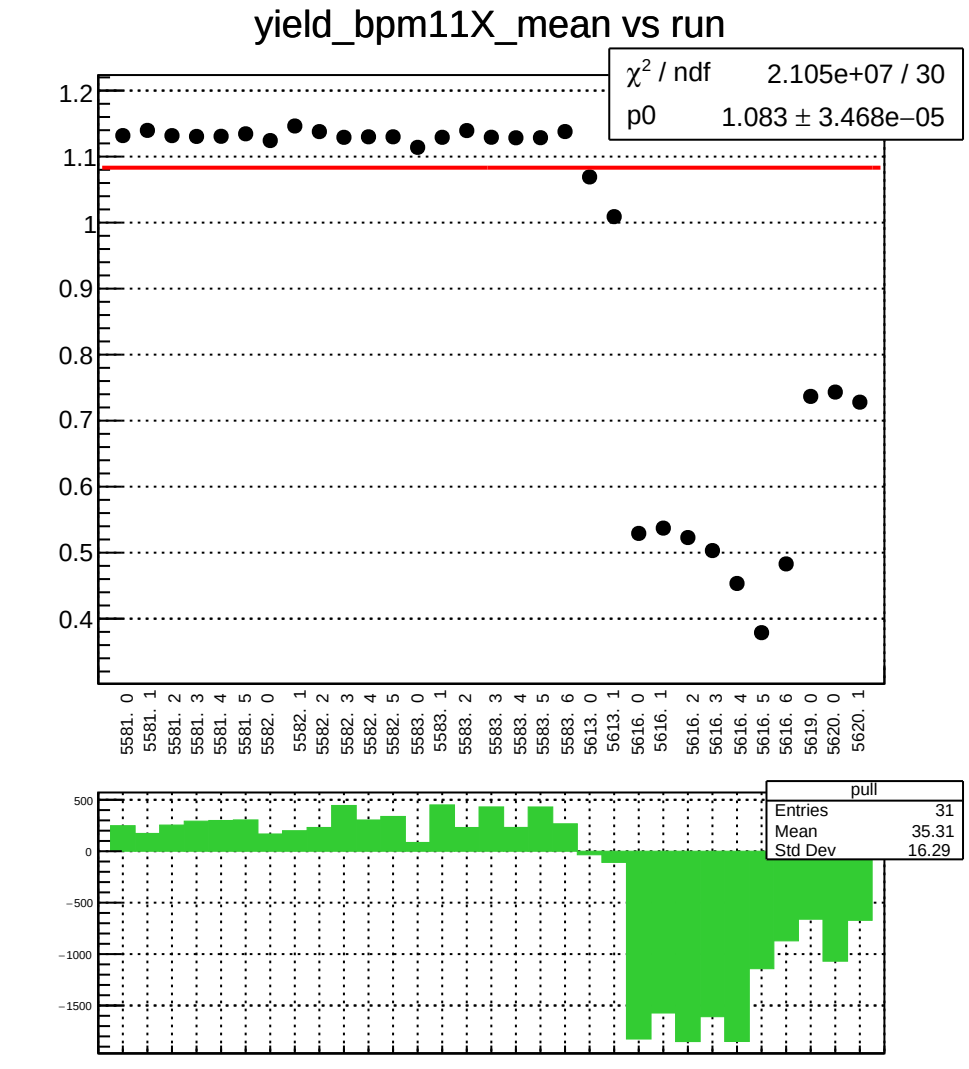

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

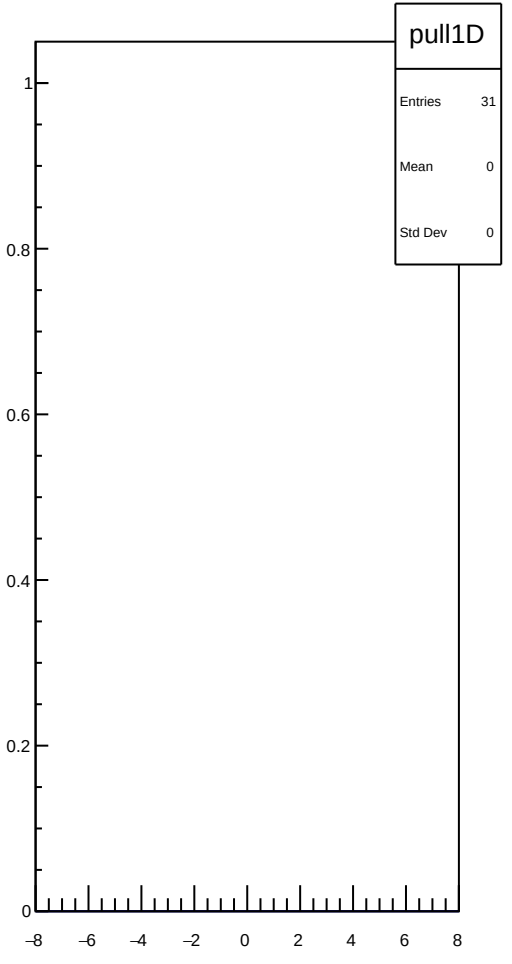

yield_bpm1X_rms vs run
χ² / ndf 1.641e+05 / 30
p0 0.03646 ± 5.481e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

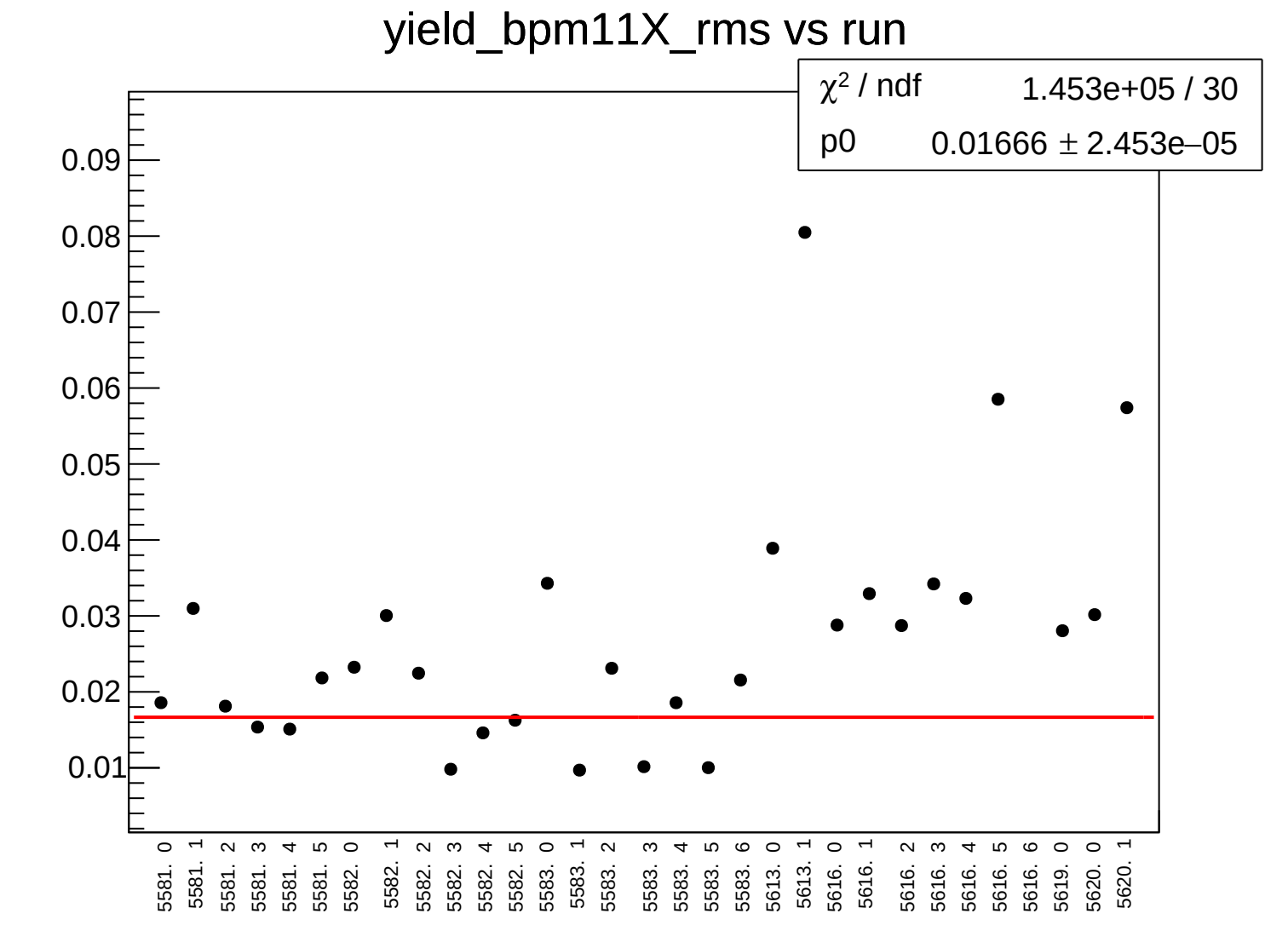

yield_bpm1Y_mean vs run
χ² / ndf 4.405e+06 / 30
p0 −0.06448 ± 5.216e−05
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 87.36
Std Dev 70.08
800
600
400
200
0
−200
−400

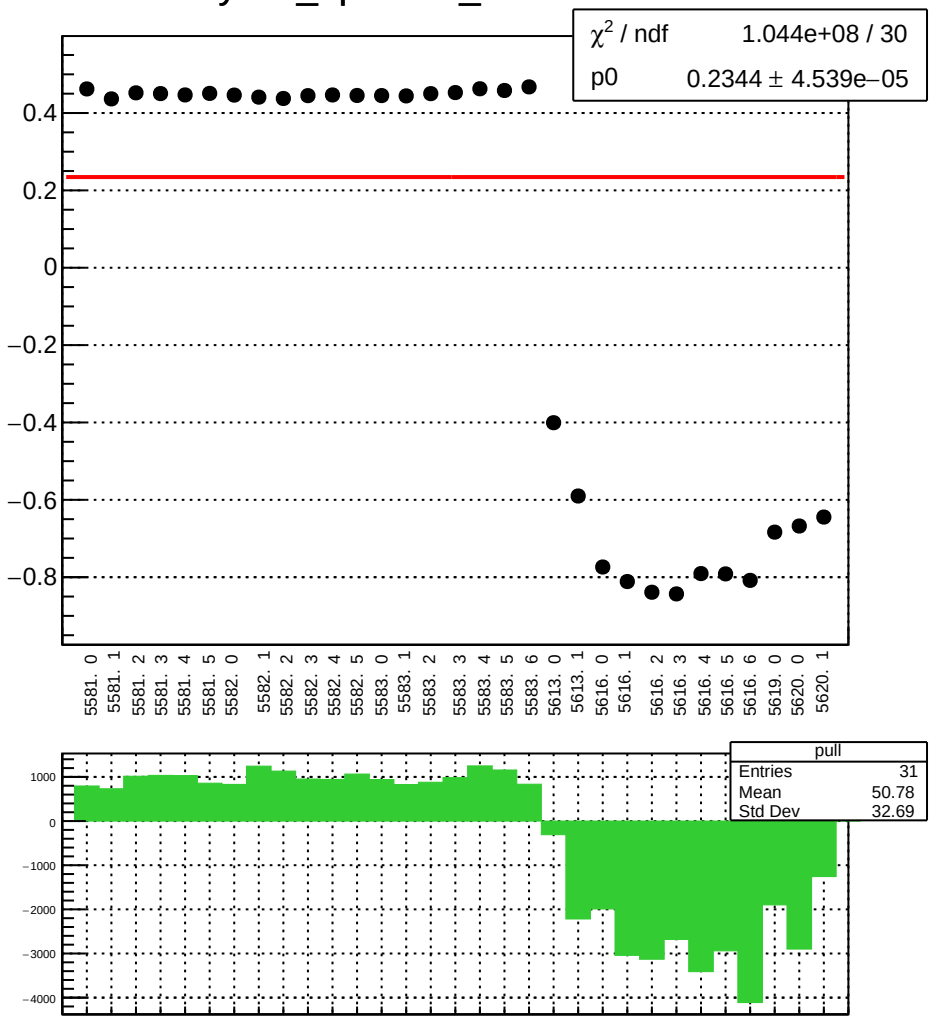

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

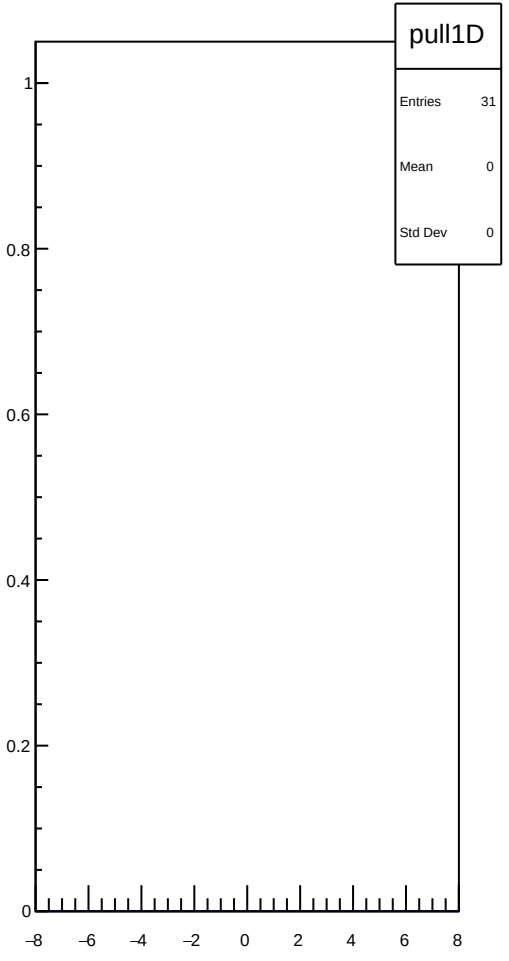

yield_bpm1Y_rms vs run
χ² / ndf 6.155e+04 / 30
p0 0.02723 ± 3.689e–05
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

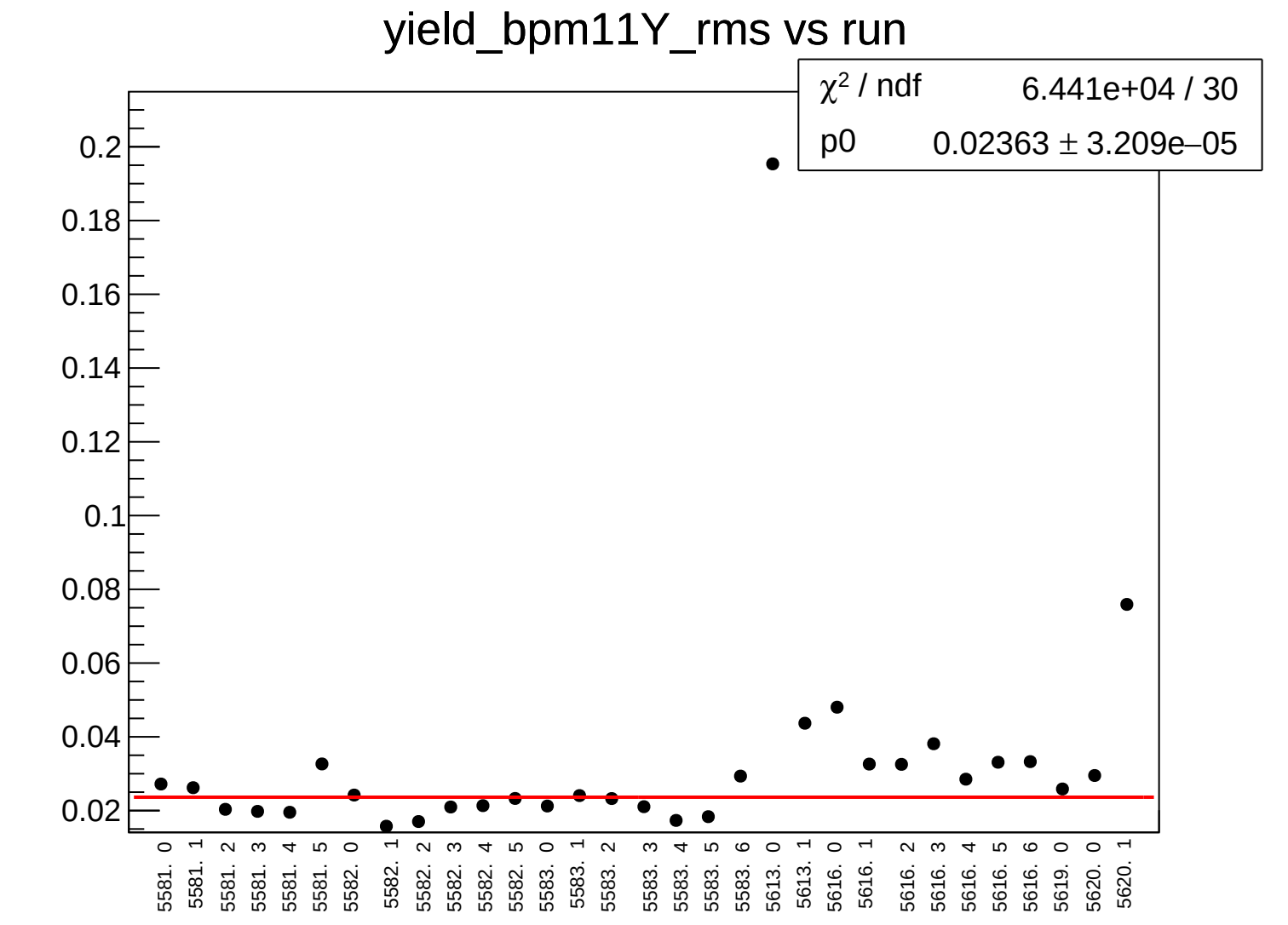

yield_bpm11X_mean vs run
χ² / ndf 2.105e+07 / 30
p0 1.083 ± 3.468e−05
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.31
Std Dev 16.29
500
0
−500
−1000
−1500

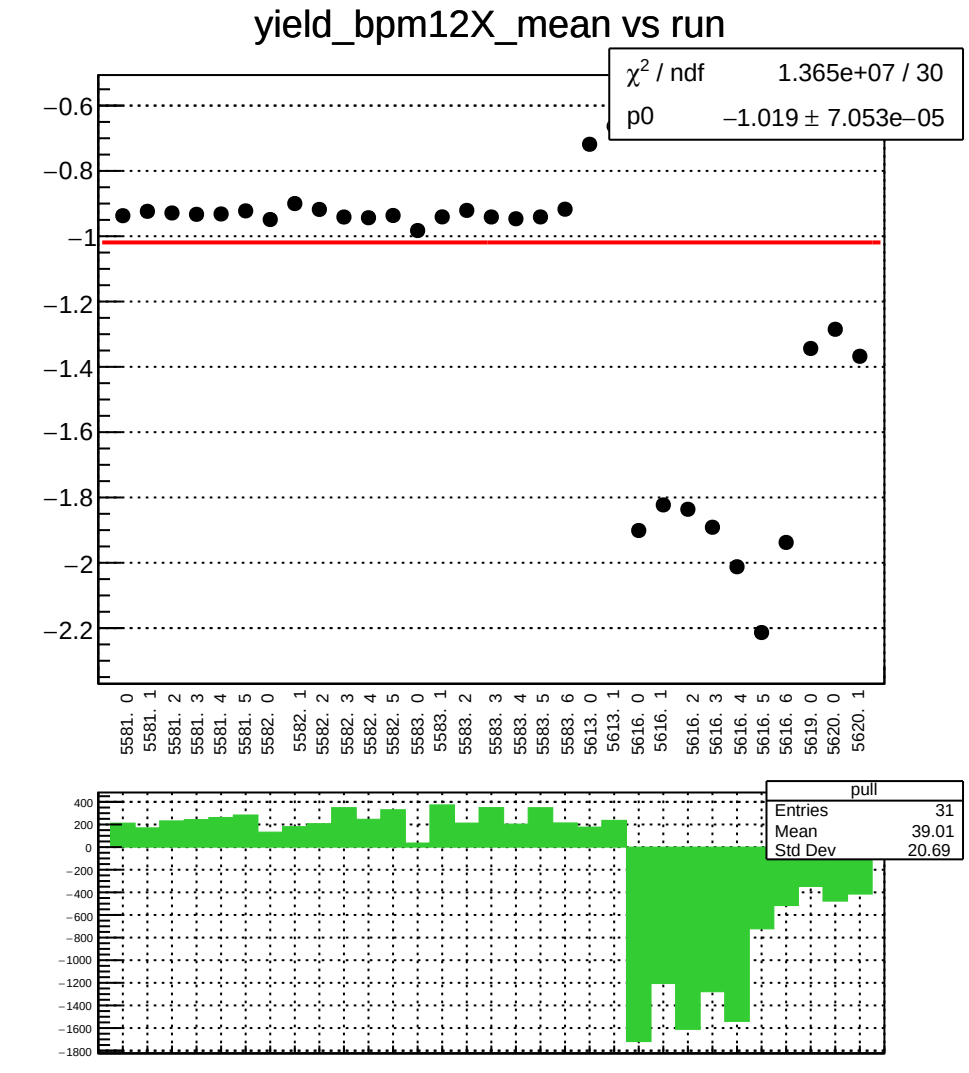

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

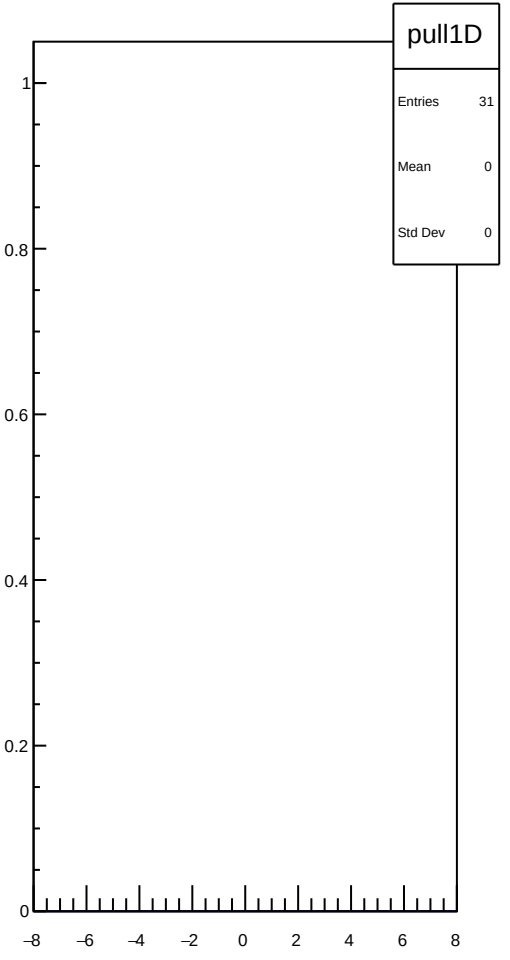

yield_bpm11X_rms vs run
χ² / ndf 1.453e+05 / 30
p0 0.01666 ± 2.453e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

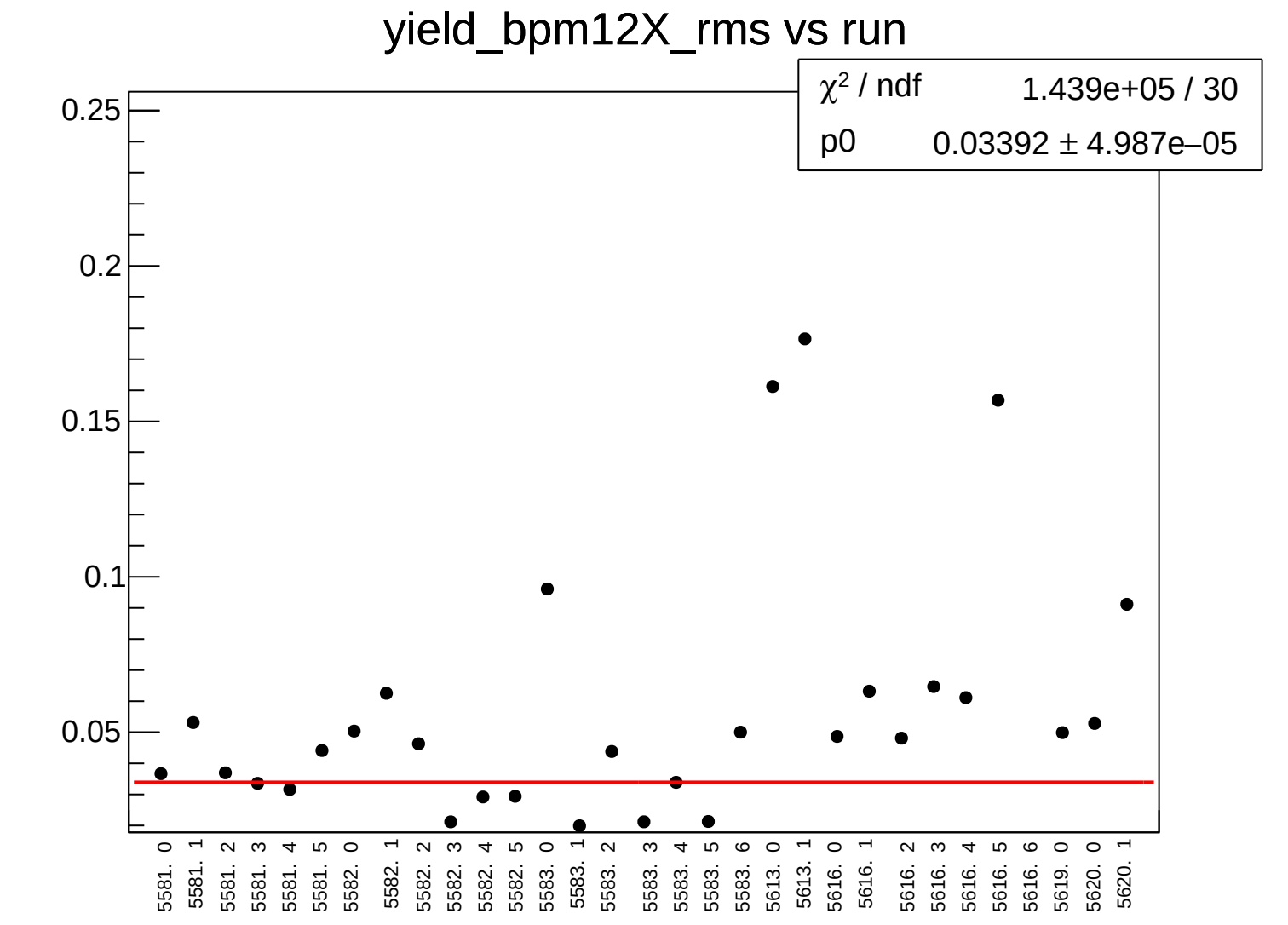

yield_bpm11Y_mean vs run
χ² / ndf 1.044e+08 / 30
p0 0.2344 ± 4.539e−05
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 50.78
Std Dev 32.69
1000
0
−1000
−2000
−3000
−4000

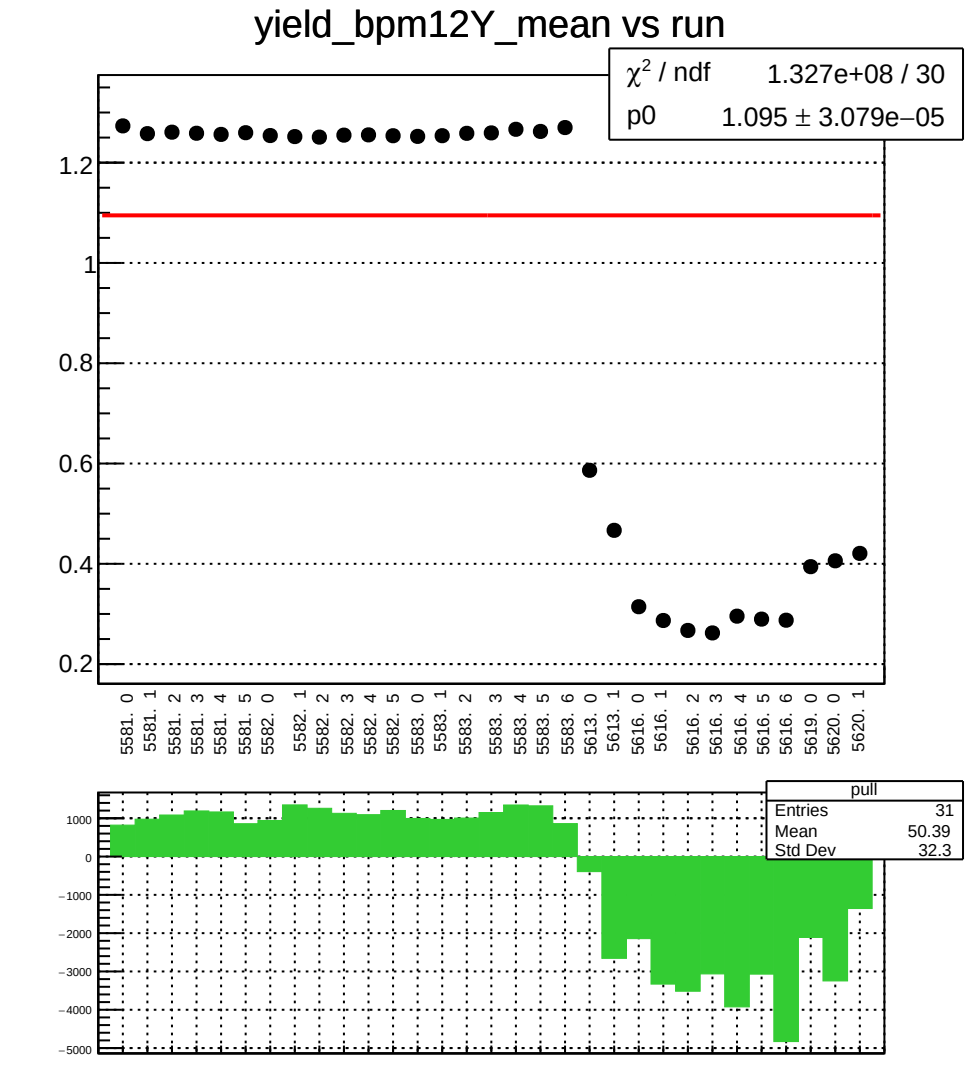

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

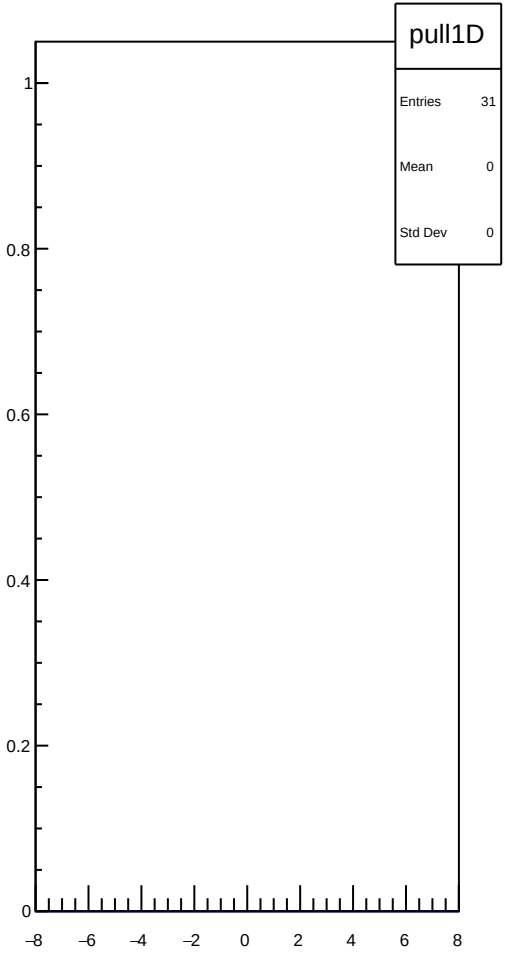

yield_bpm11Y_rms vs run
χ² / ndf 6.441e+04 / 30
p0 0.02363 ± 3.209e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

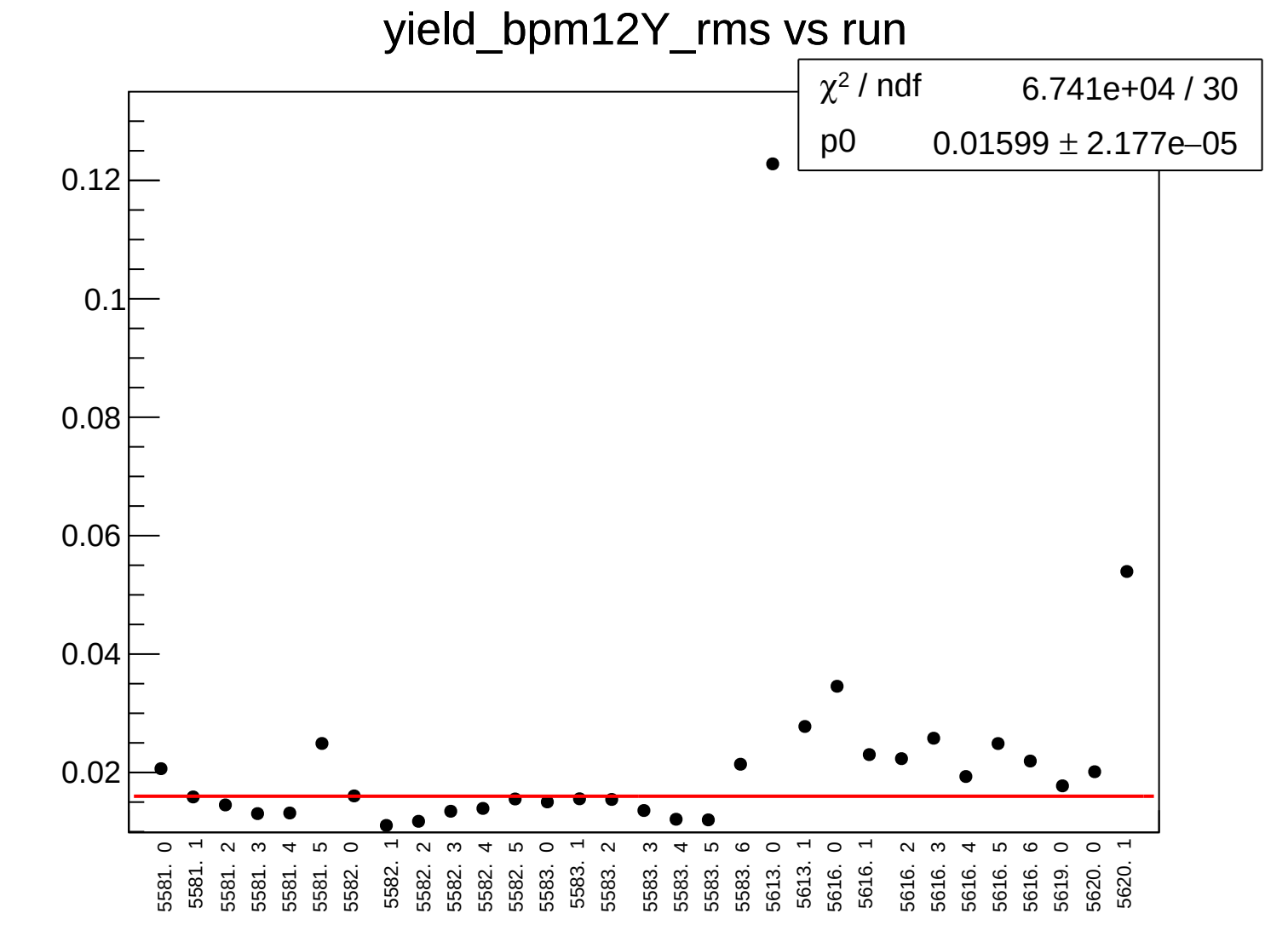

yield_bpm12X_mean vs run
χ² / ndf 1.365e+07 / 30
p0 −1.019 ± 7.053e−05
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 39.01
Std Dev 20.69
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

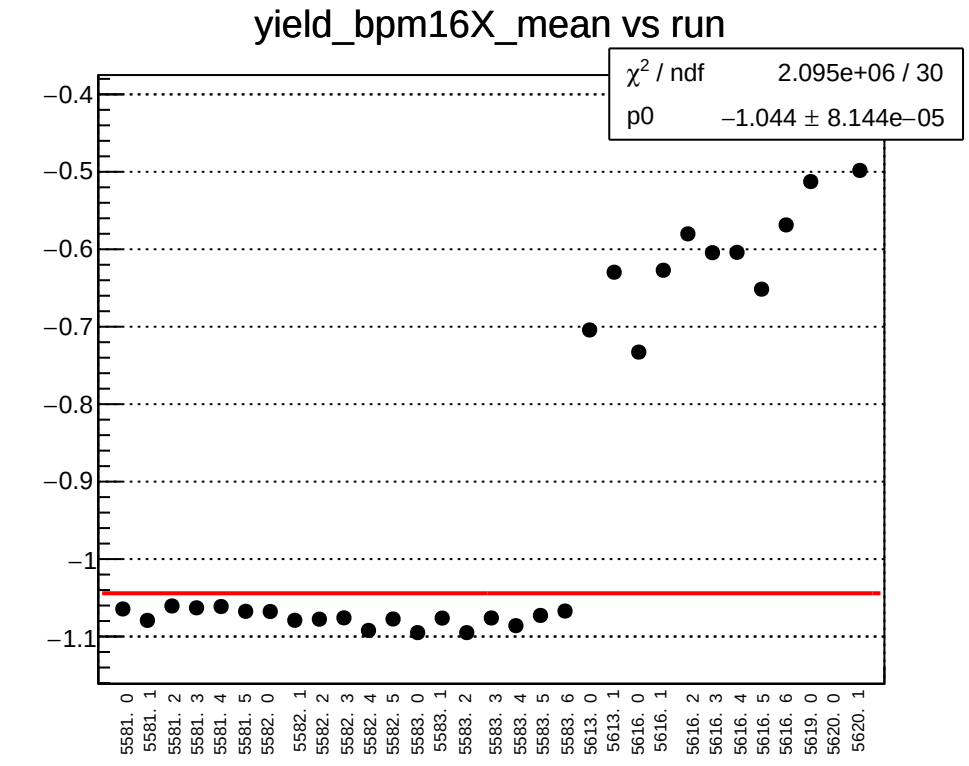

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

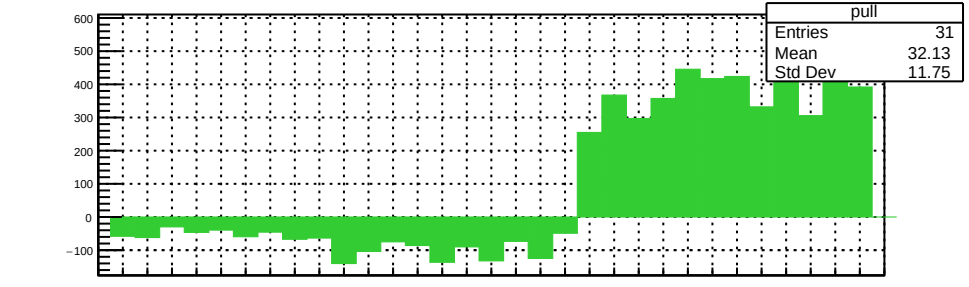

yield_bpm12X_rms vs run
χ² / ndf 1.439e+05 / 30
p0 0.03392 ± 4.987e–05
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

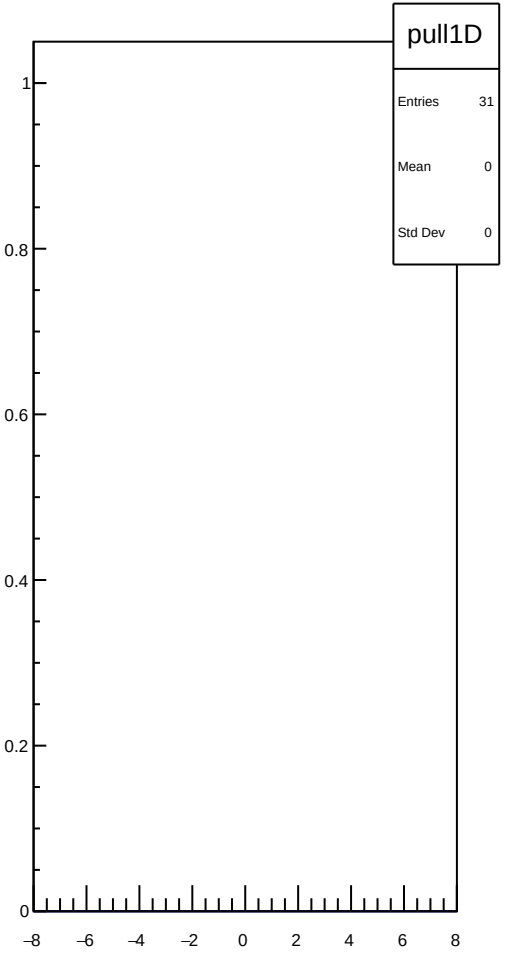

yield_bpm12Y_mean vs run
χ² / ndf 1.327e+08 / 30
p0 1.095 ± 3.079e−05
1.2
1
0.8
0.6
0.4
0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 50.39
Std Dev 32.3
1000
0
−1000
−2000
−3000
−4000
−5000

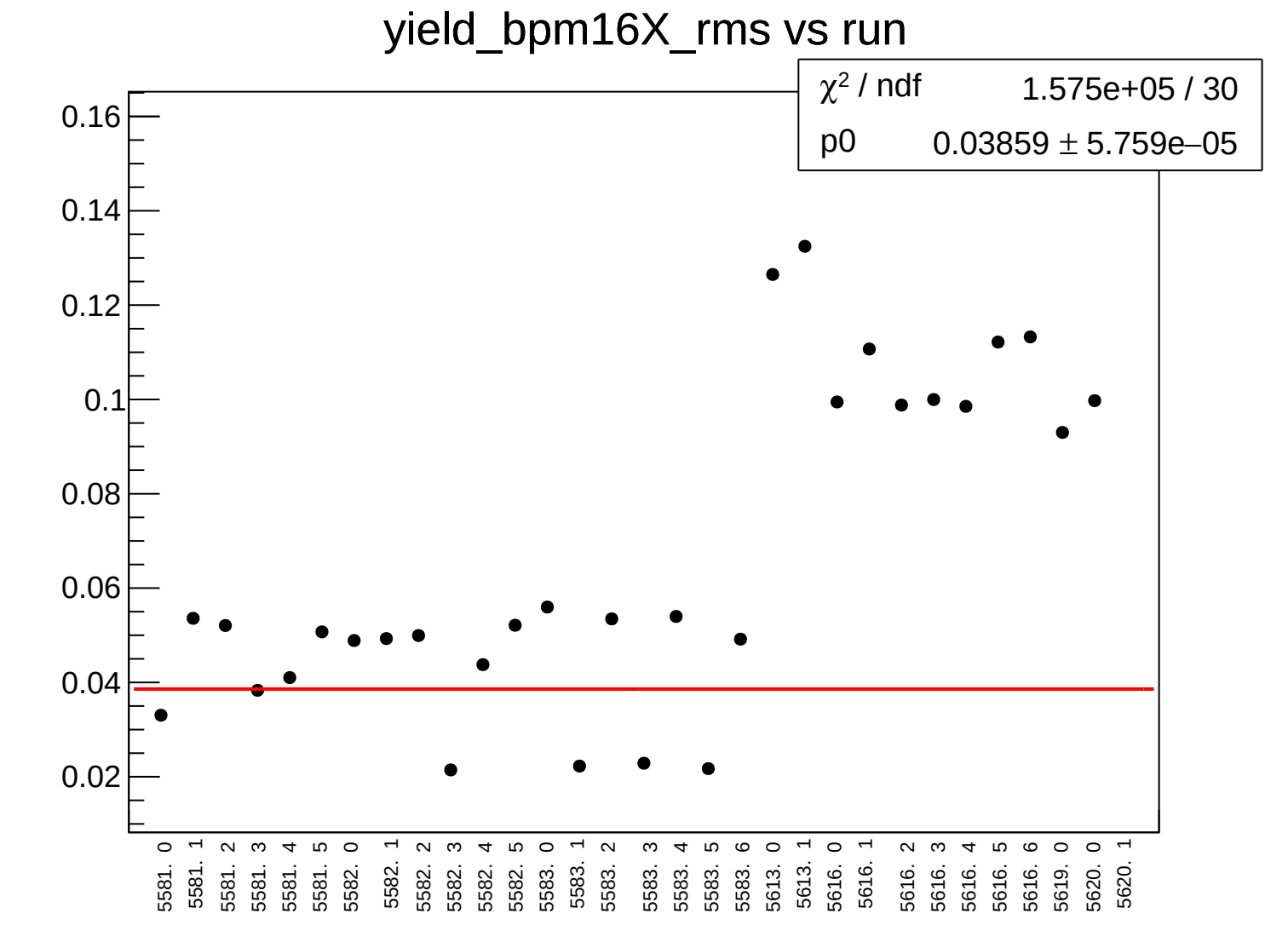

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

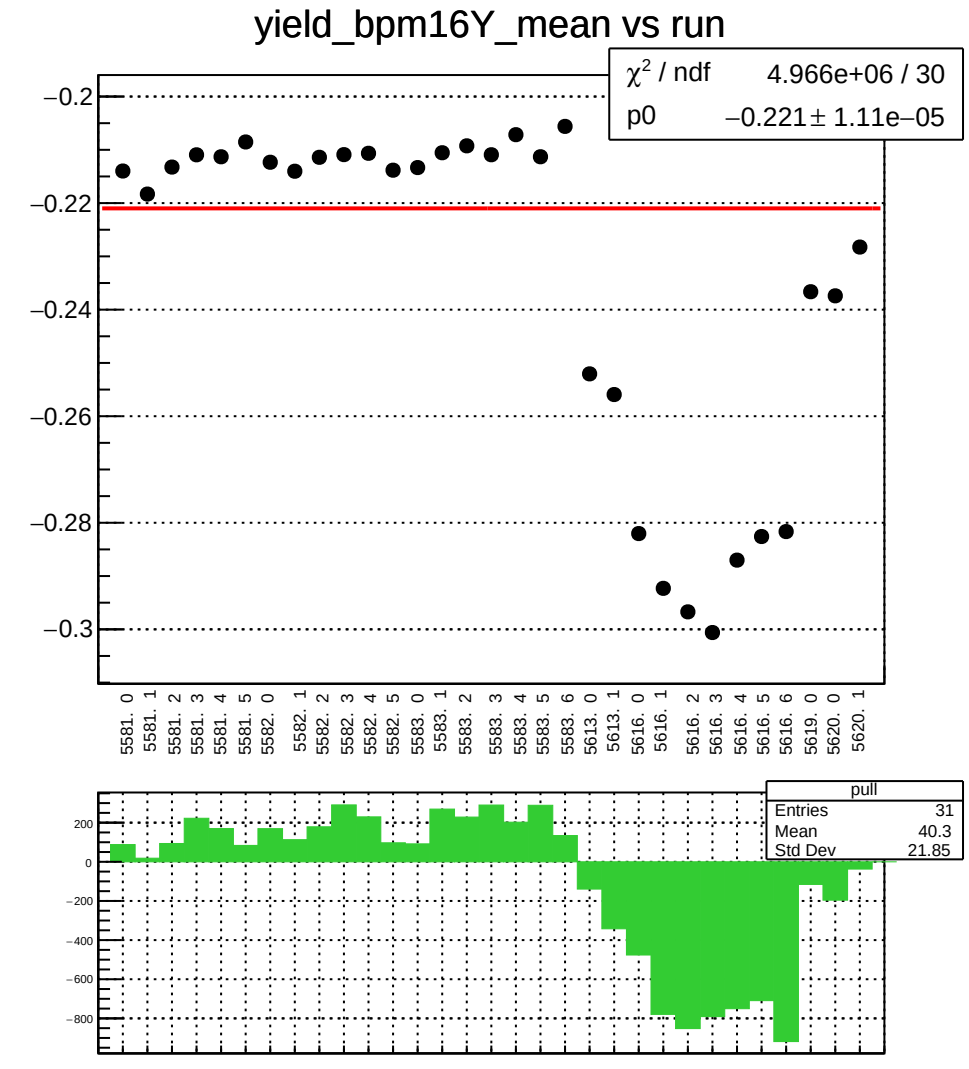

yield_bpm12Y_rms vs run
χ² / ndf 6.741e+04 / 30
p0 0.01599 ± 2.177e–05
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

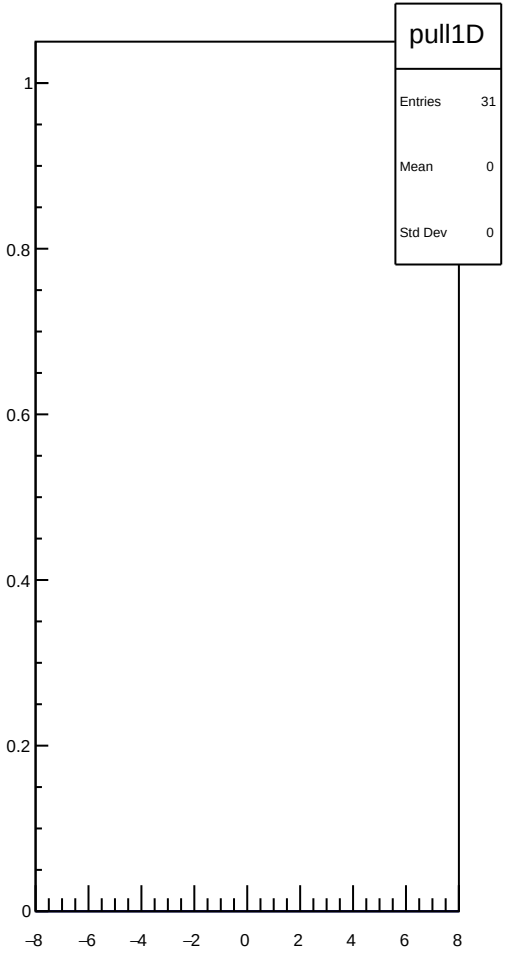

yield_bpm16X_mean vs run
χ² / ndf 2.095e+06 / 30
p0 −1.044 ± 8.144e−05
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
−1
−1.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

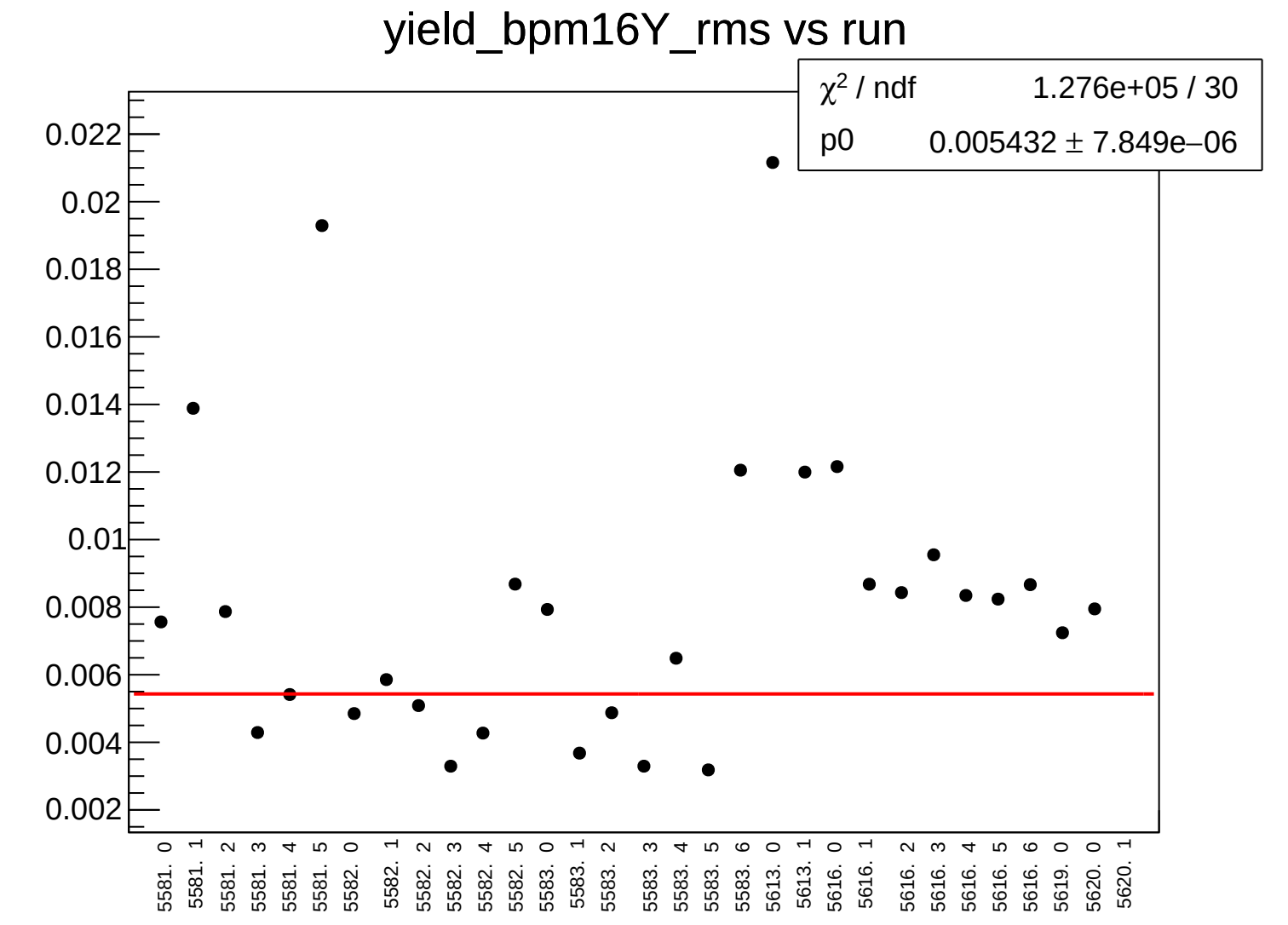

pull
Entries 31
Mean 32.13
Std Dev 11.75
600
500
400
300
200
100
0
−100

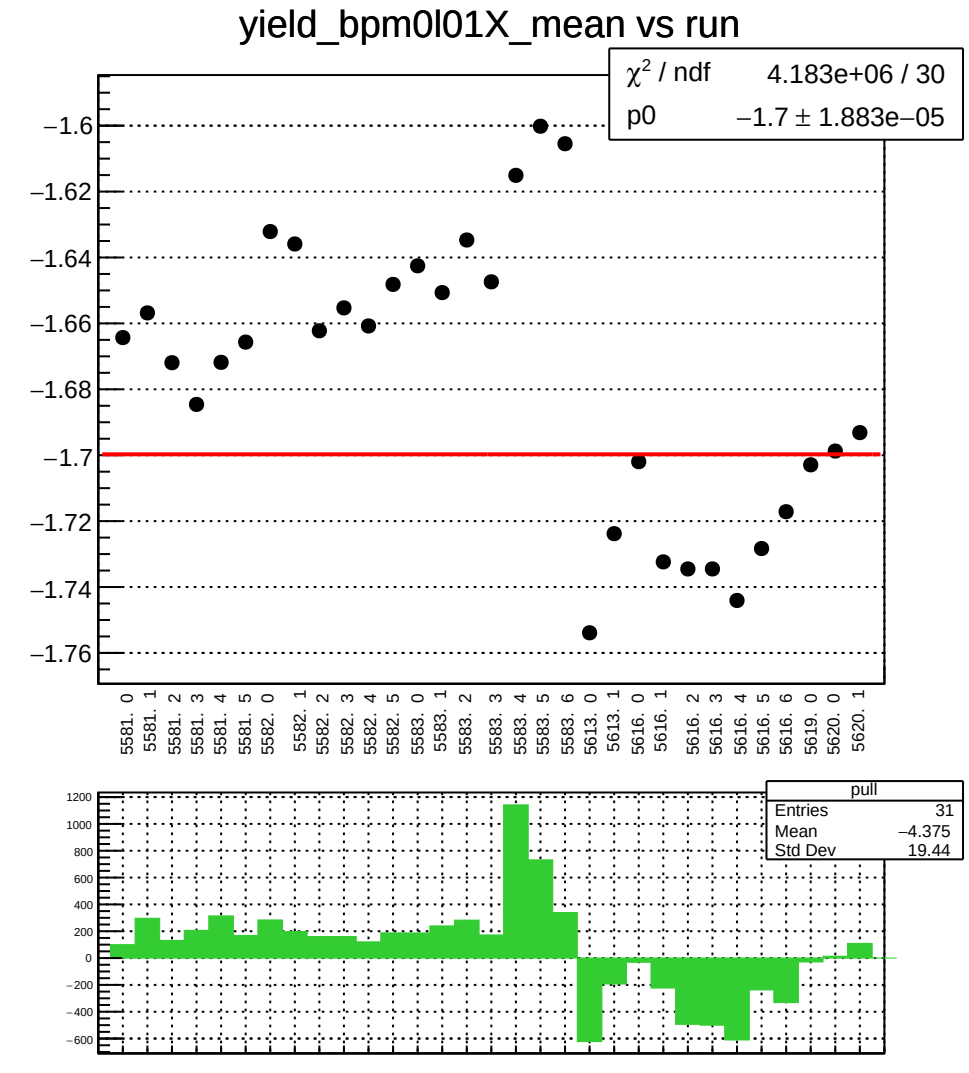

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

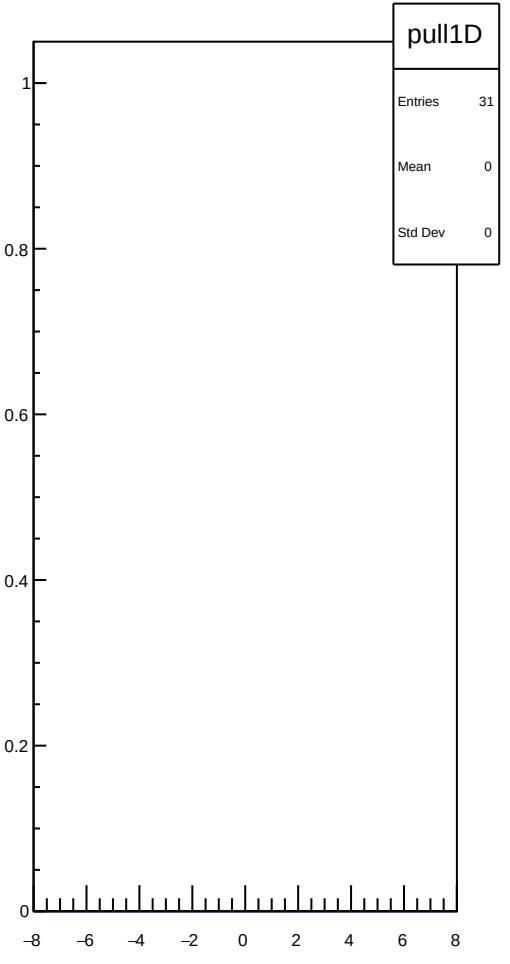

yield_bpm16X_rms vs run
χ² / ndf 1.575e+05 / 30
p0 0.03859 ± 5.759e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

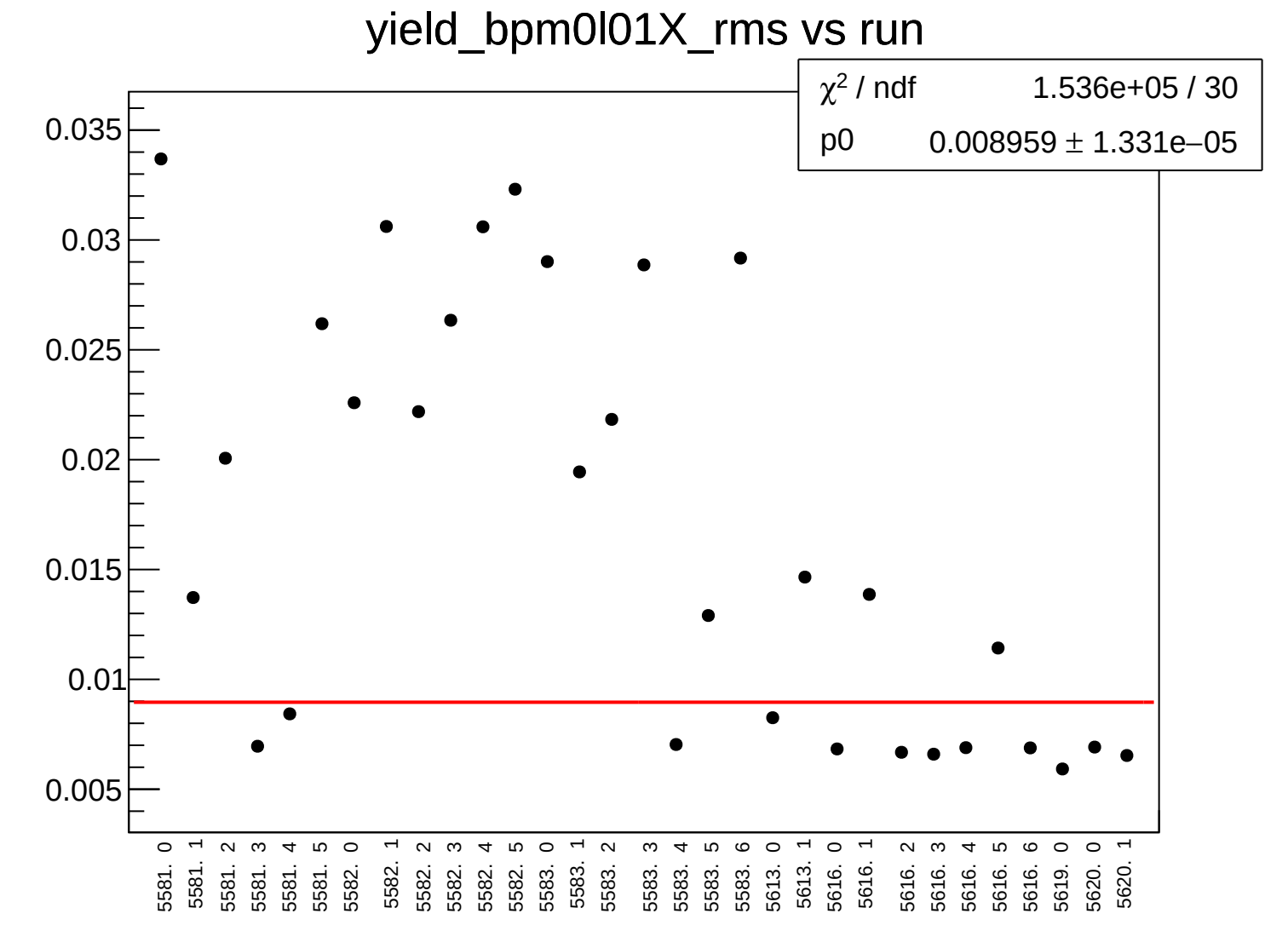

yield_bpm16Y_mean vs run
χ² / ndf 4.966e+06 / 30
p0 −0.221 ± 1.11e−05
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.3
Std Dev 21.85
200
0
−200
−400
−600
−800

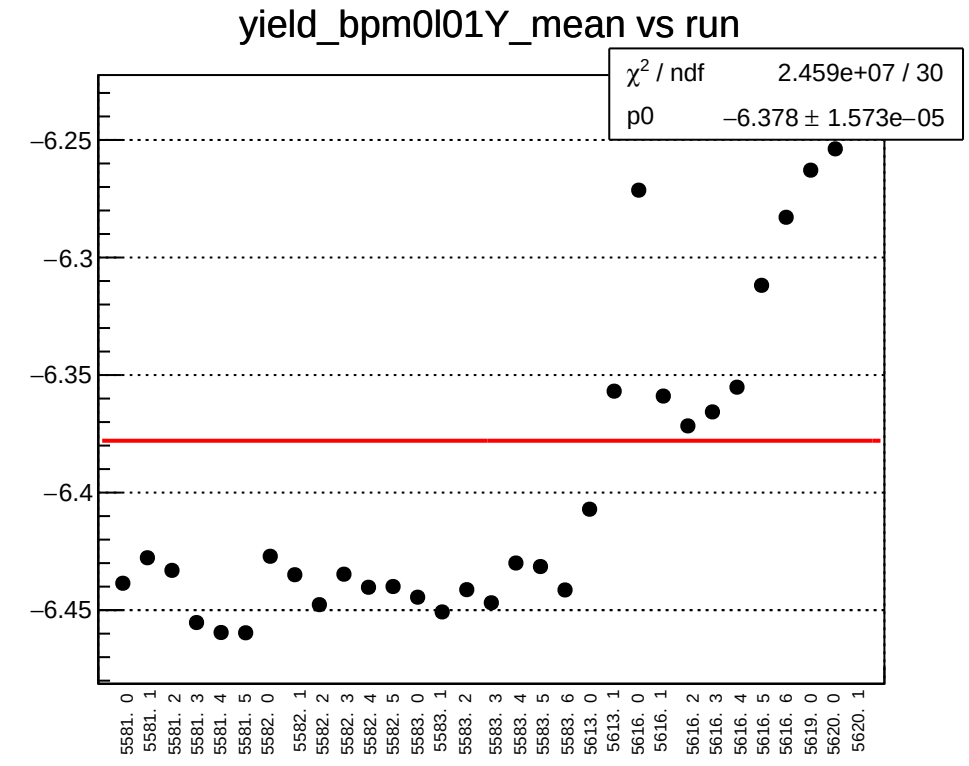

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

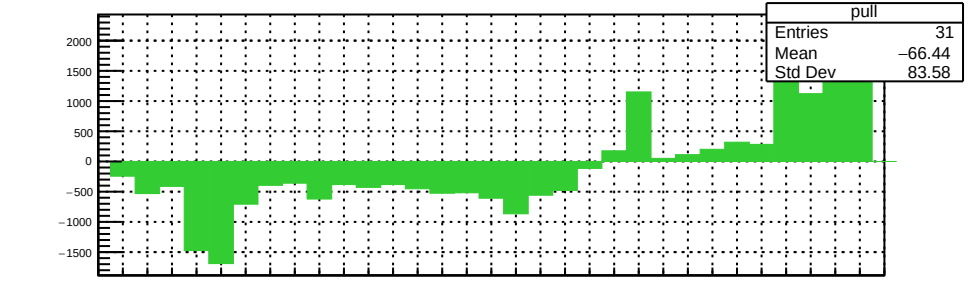

yield_bpm16Y_rms vs run
χ² / ndf 1.276e+05 / 30
p0 0.005432 ± 7.849e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

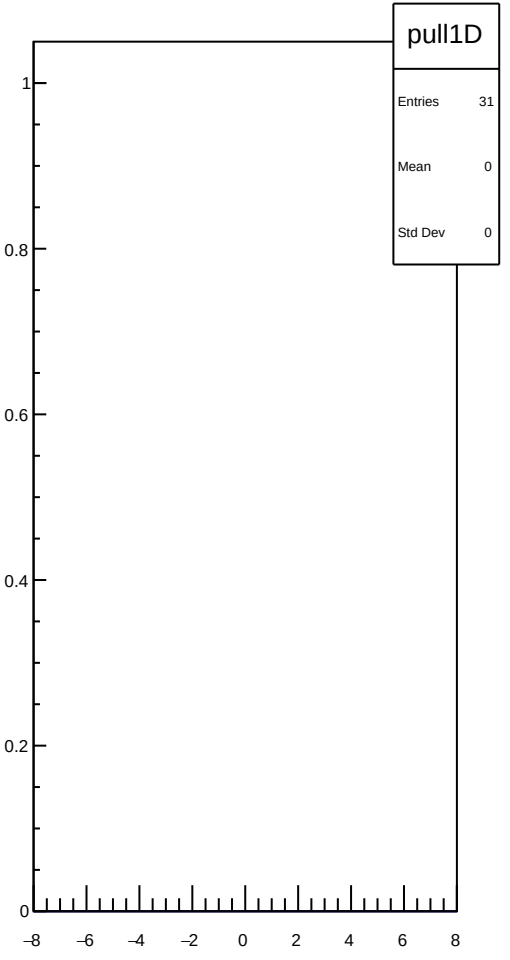

yield_bpm0l01X_mean vs run
χ² / ndf 4.183e+06 / 30
p0 −1.7 ± 1.883e−05
−1.6
−1.62
−1.64
−1.66
−1.68
−1.7
−1.72
−1.74
−1.76
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −4.375
Std Dev 19.44
1200
1000
800
600
400
200
0
−200
−400
−600

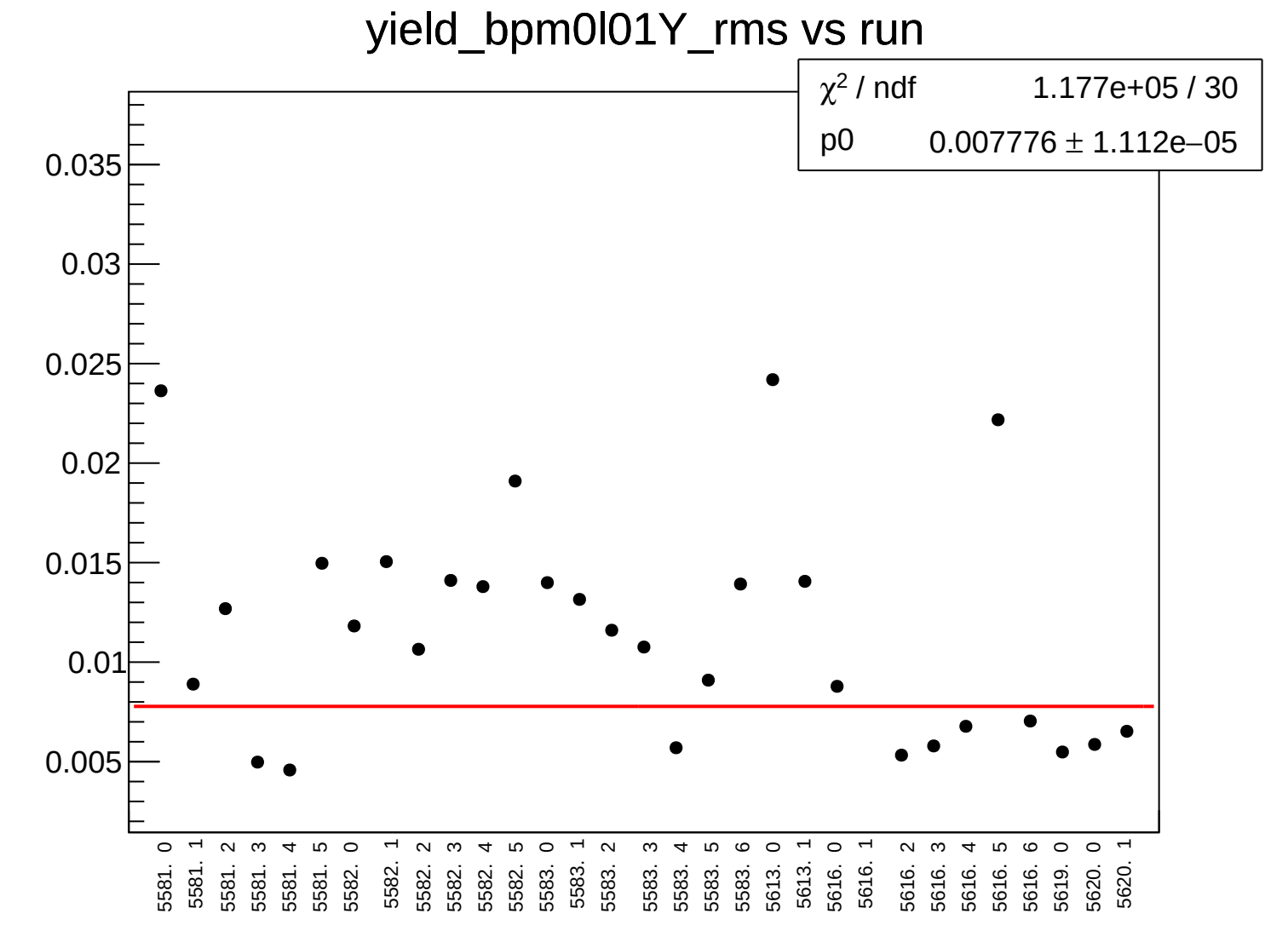

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

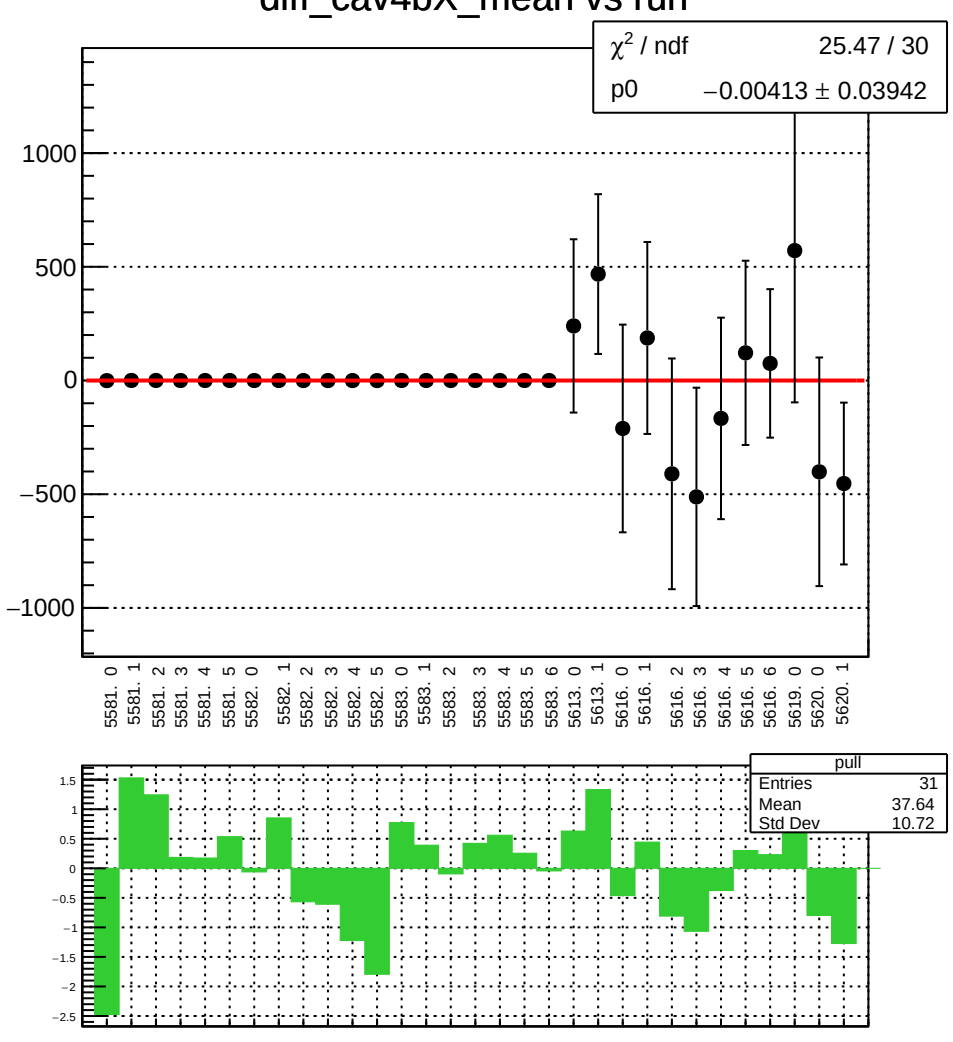

yield_bpm0l01X_rms vs run
χ² / ndf 1.536e+05 / 30
p0 0.008959 ± 1.331e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

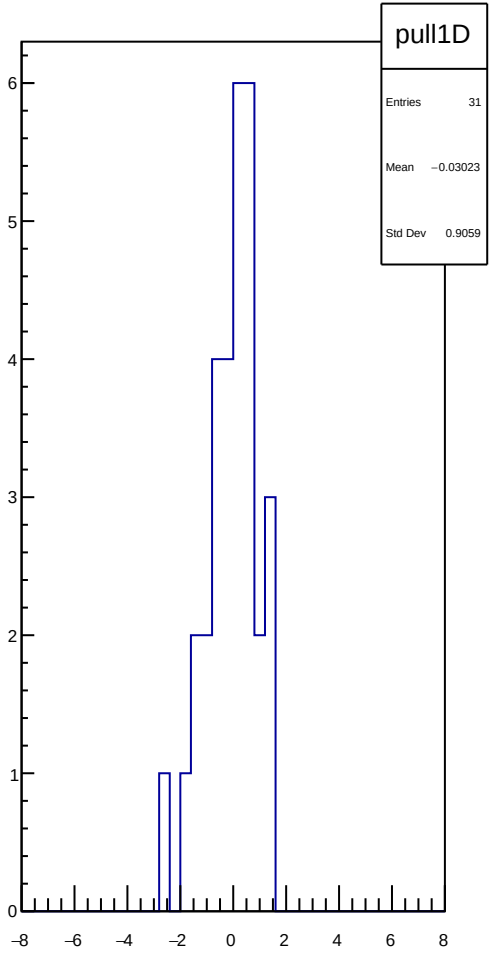

yield_bpm0l01Y_mean vs run
χ² / ndf 2.459e+07 / 30
p0 −6.378 ± 1.573e−05
−6.25
−6.3
−6.35
−6.4
−6.45
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

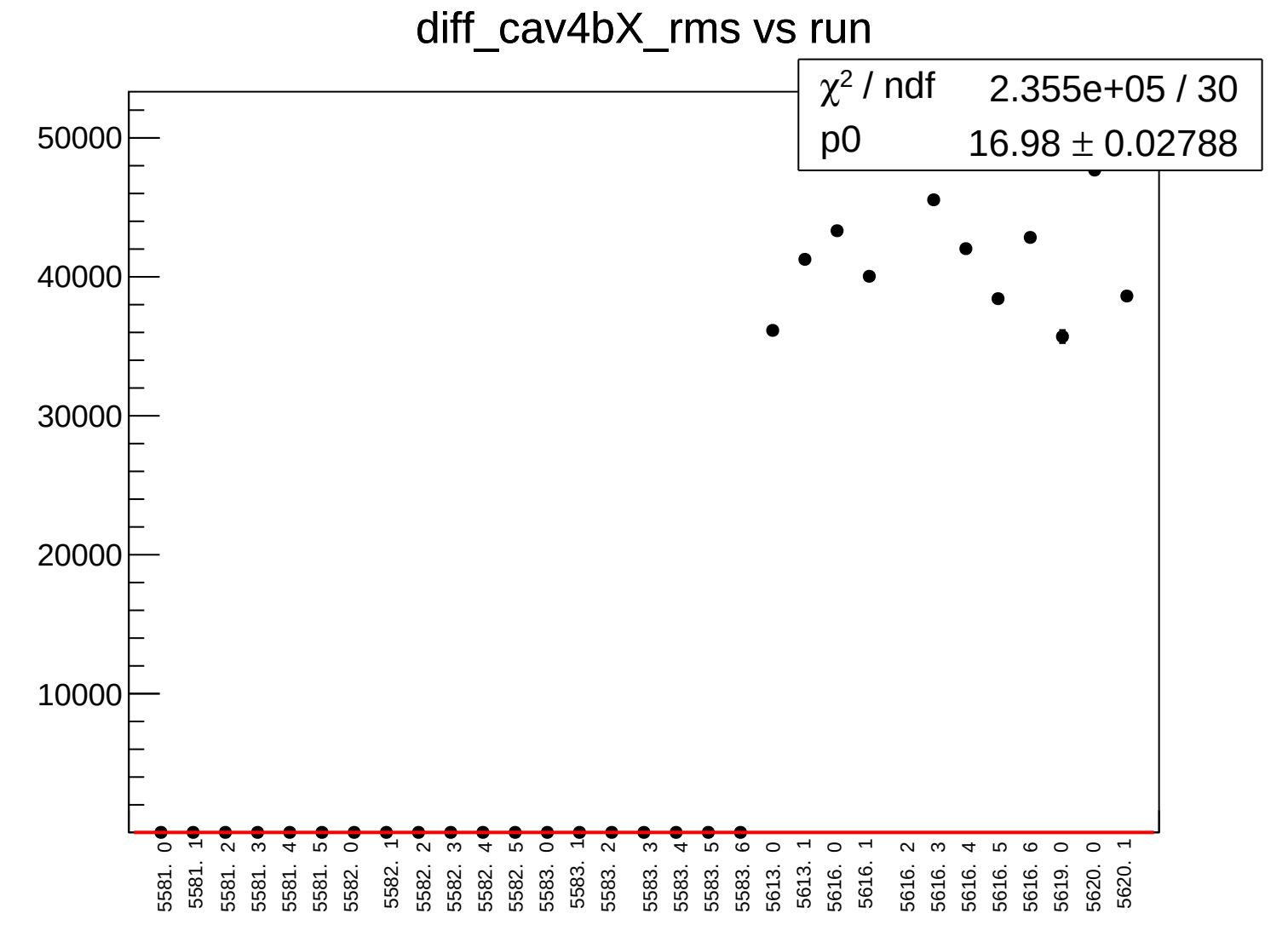

pull
Entries 31
Mean −66.44
Std Dev 83.58
2000
1500
1000
500
0
−500
−1000
−1500

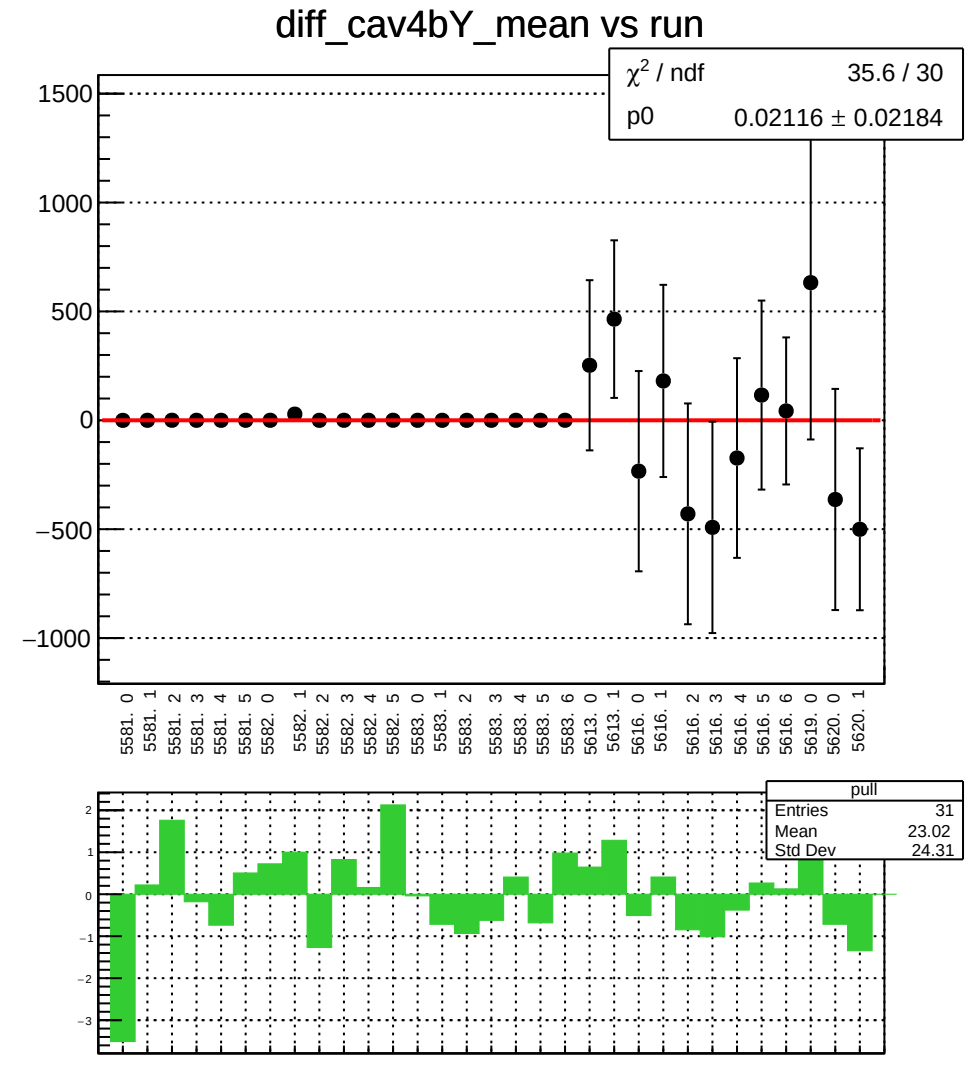

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

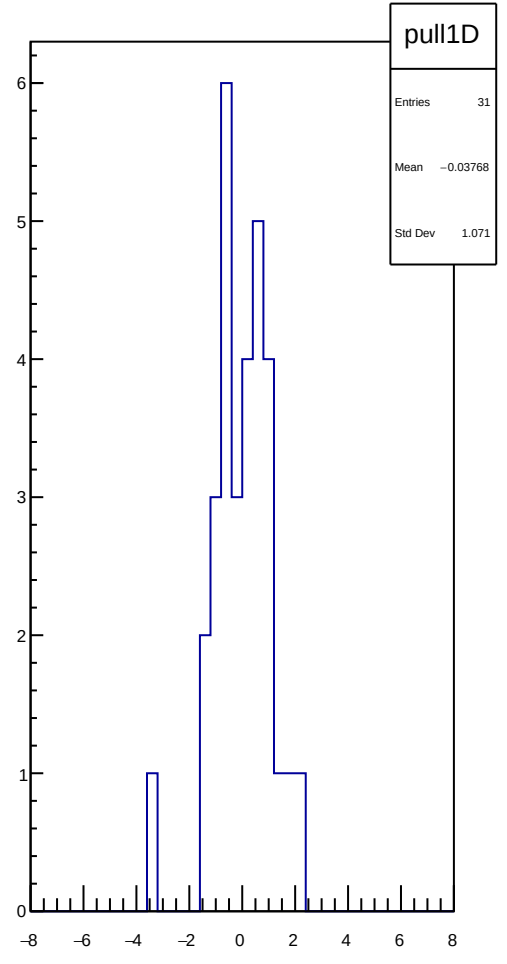

yield_bpm0l01Y_rms vs run
χ² / ndf 1.177e+05 / 30
p0 0.007776 ± 1.112e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

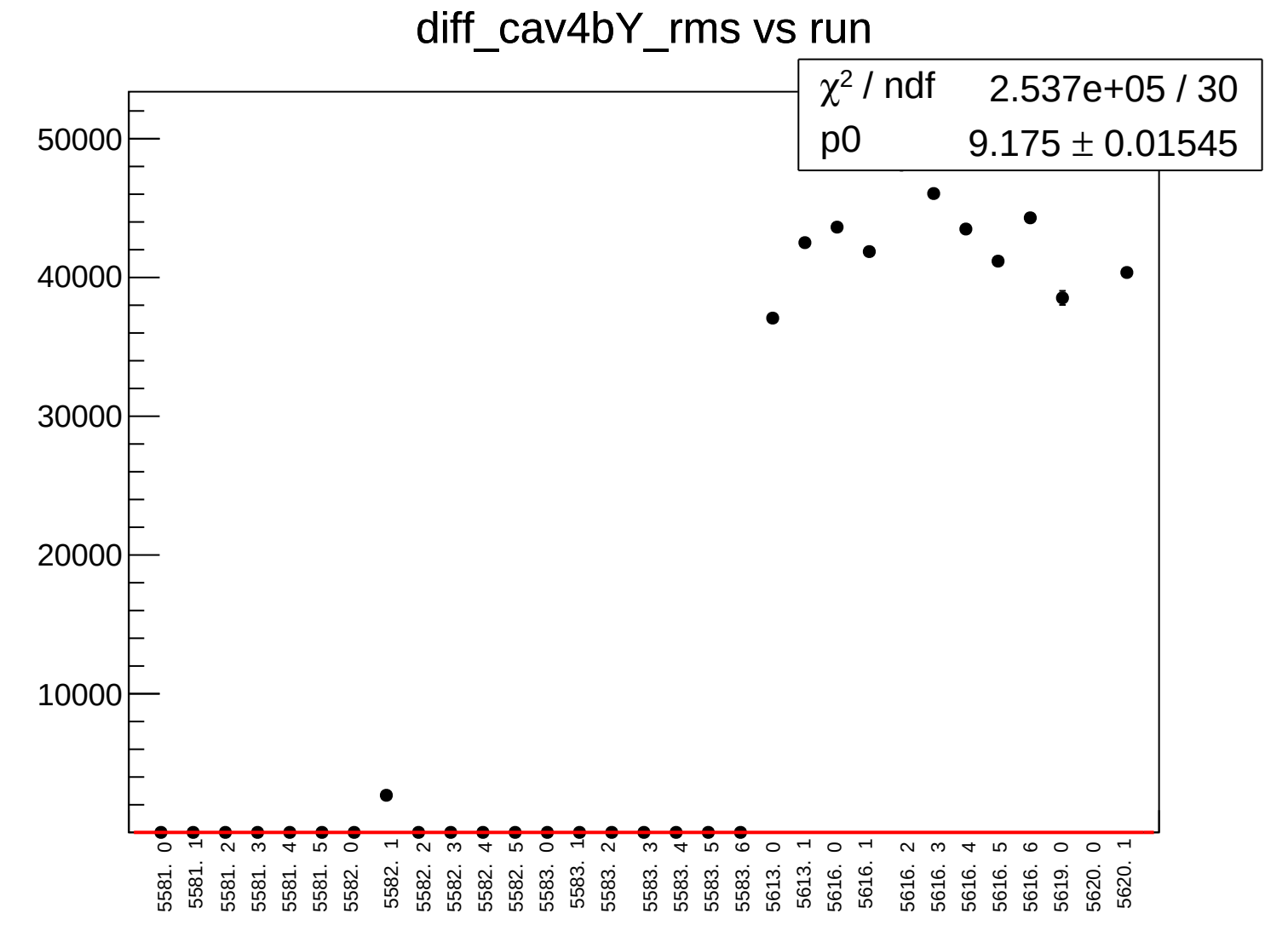

diff_cav4bX_mean vs run
χ² / ndf 25.47 / 30
p0 −0.00413 ± 0.03942
1000
500
0
−500
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.64
Std Dev 10.72
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

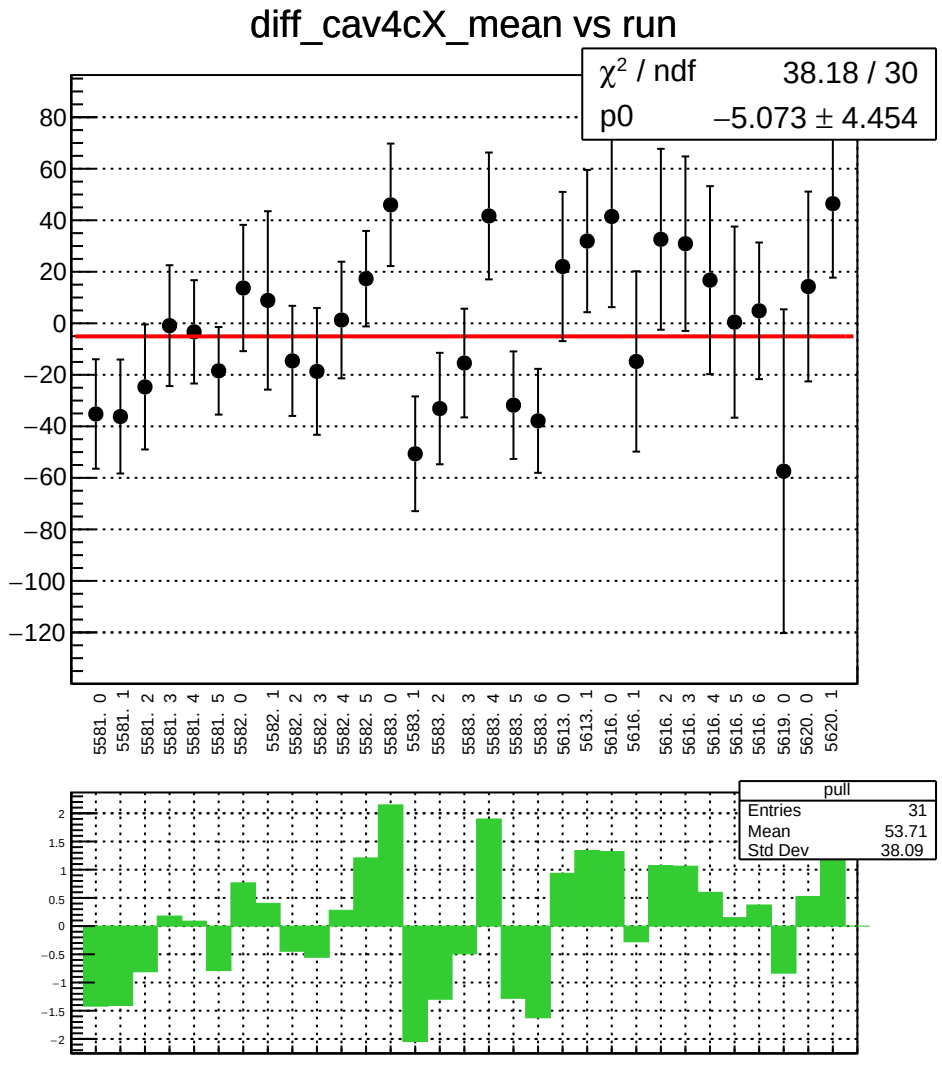

pull1D
Entries 31
Mean −0.03023
Std Dev 0.9059
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

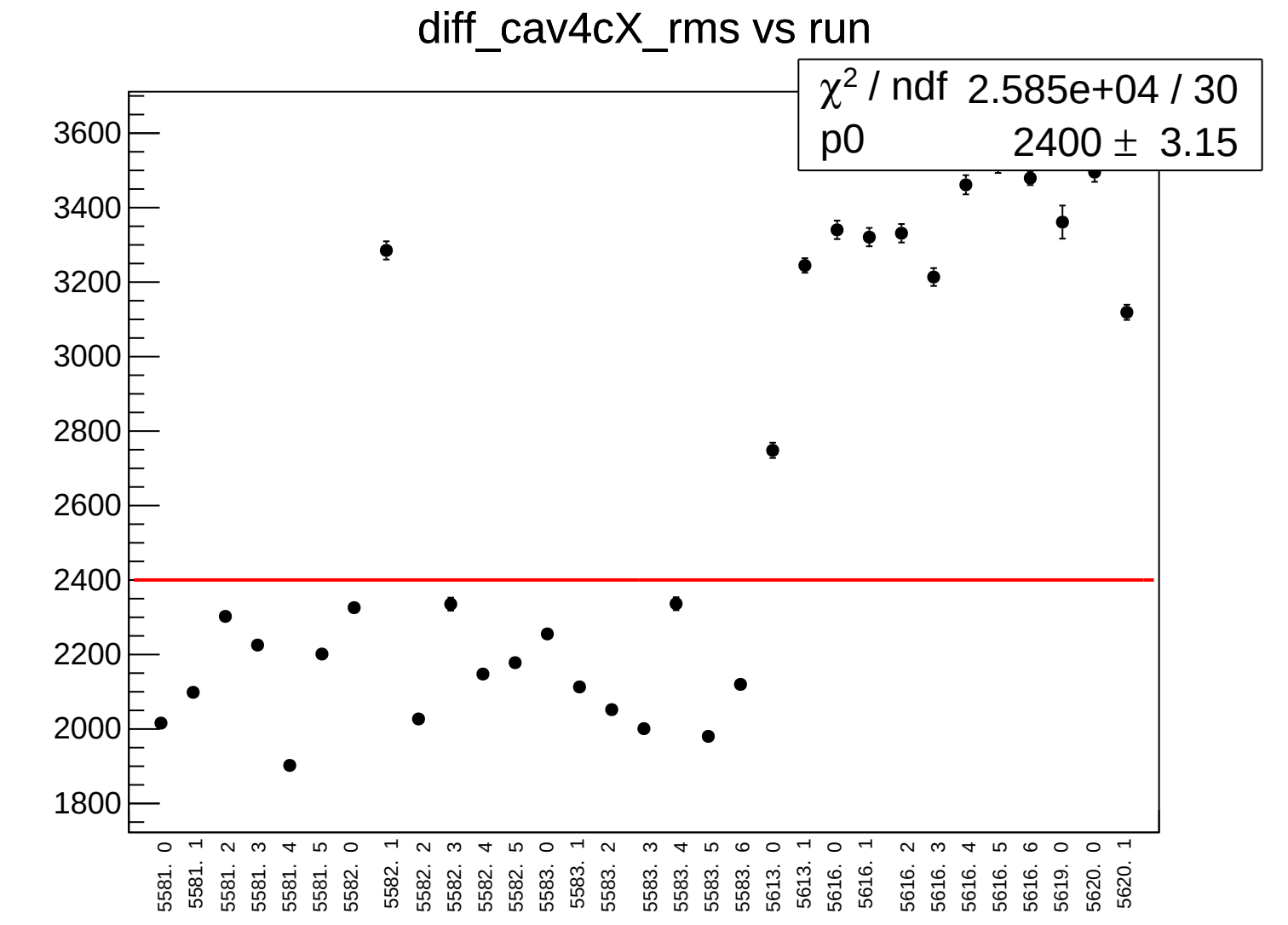

diff_cav4bX_rms vs run
χ² / ndf 2.355e+05 / 30
p0 16.98 ± 0.02788
50000
40000
30000
20000
10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

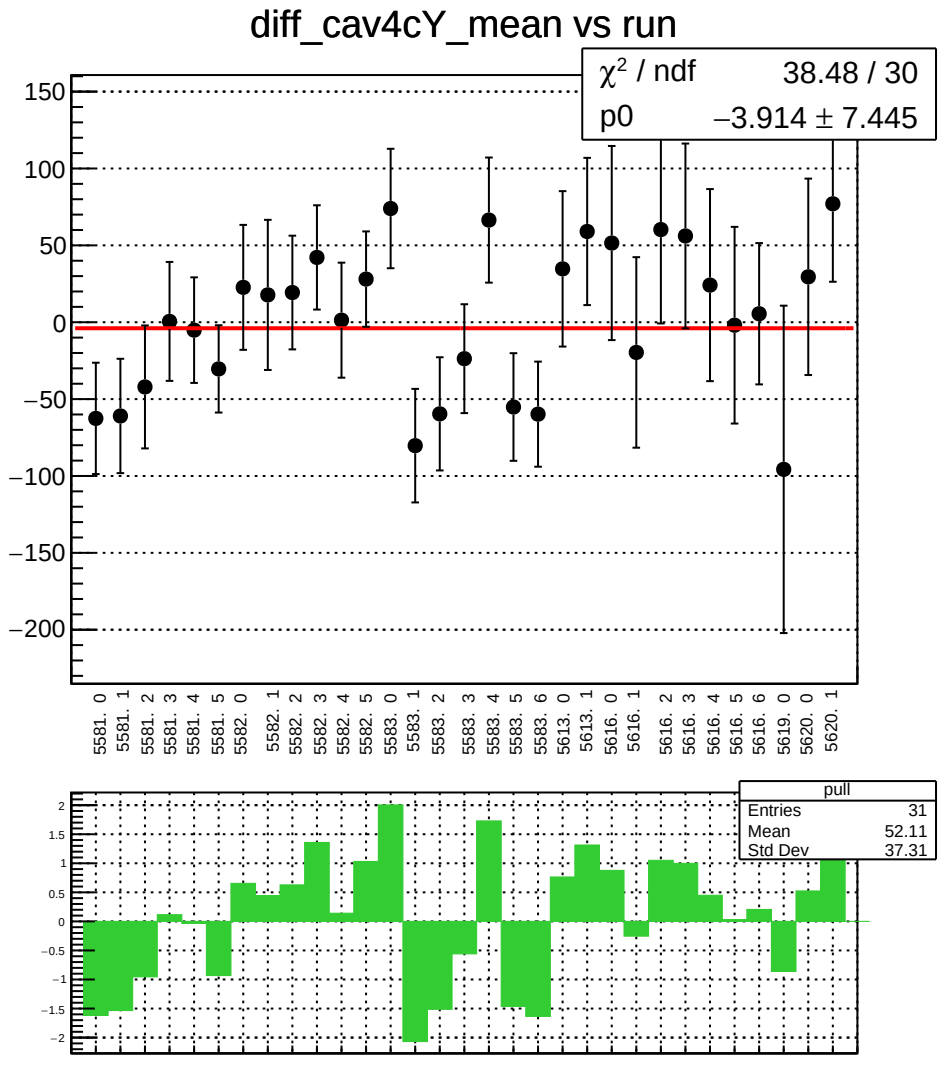

diff_cav4bY_mean vs run
χ² / ndf 35.6 / 30
p0 0.02116 ± 0.02184
1500
1000
500
0
−500
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 23.02
Std Dev 24.31
2
1
0
−1
−2
−3

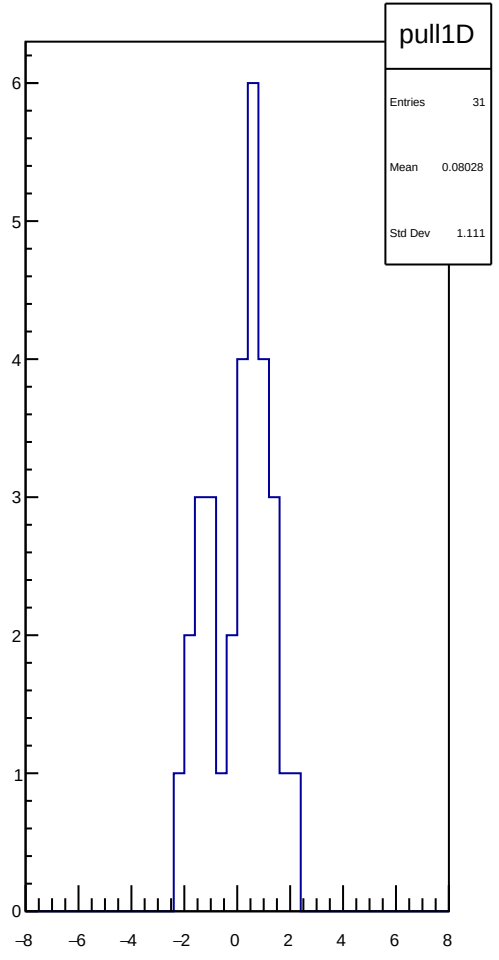

pull1D
Entries 31
Mean −0.03768
Std Dev 1.071
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

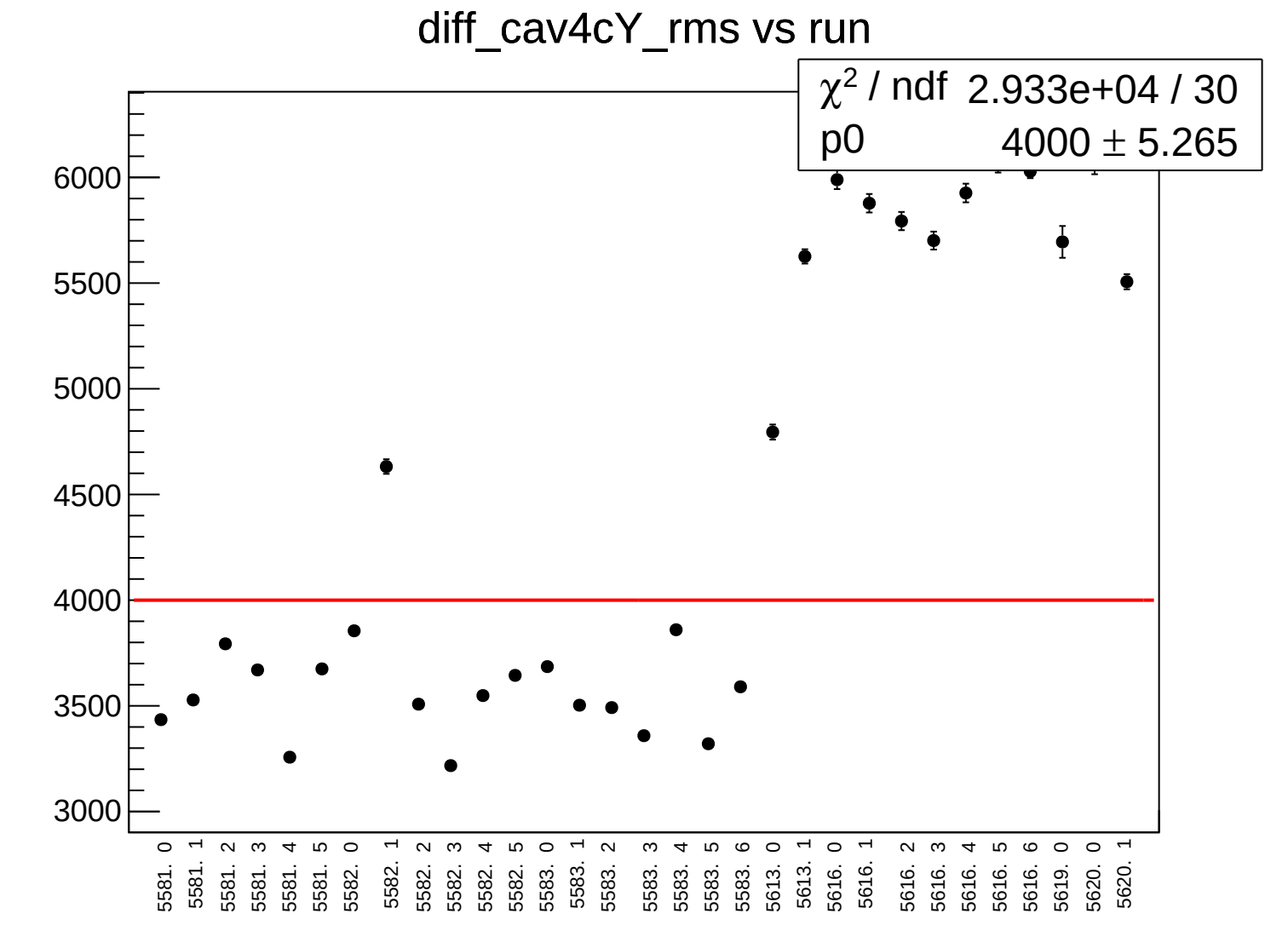

diff_cav4bY_rms vs run
χ² / ndf 2.537e+05 / 30
p0 9.175 ± 0.01545
50000
40000
30000
20000
10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

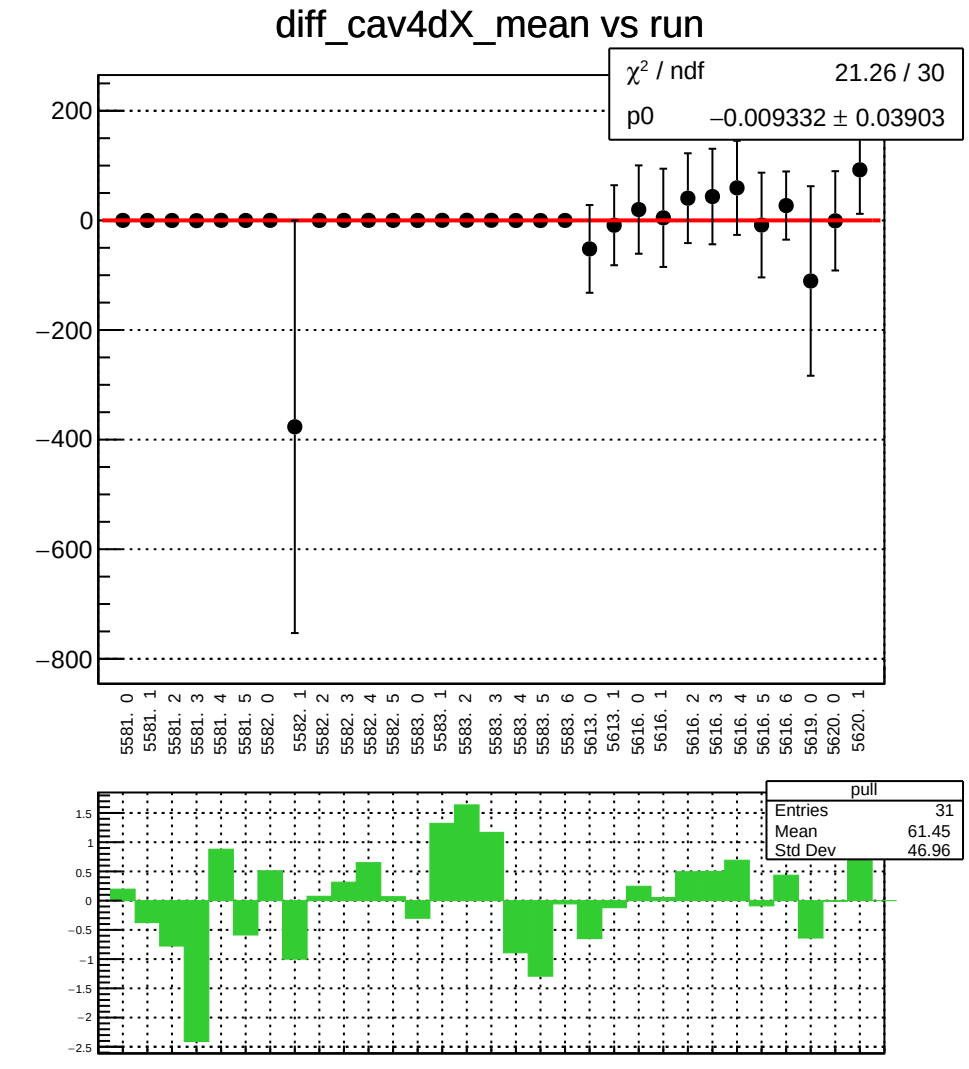

diff_cav4cX_mean vs run
χ² / ndf 38.18 / 30
p0 −5.073 ± 4.454
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 53.71
Std Dev 38.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.09274
Std Dev 1.106
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

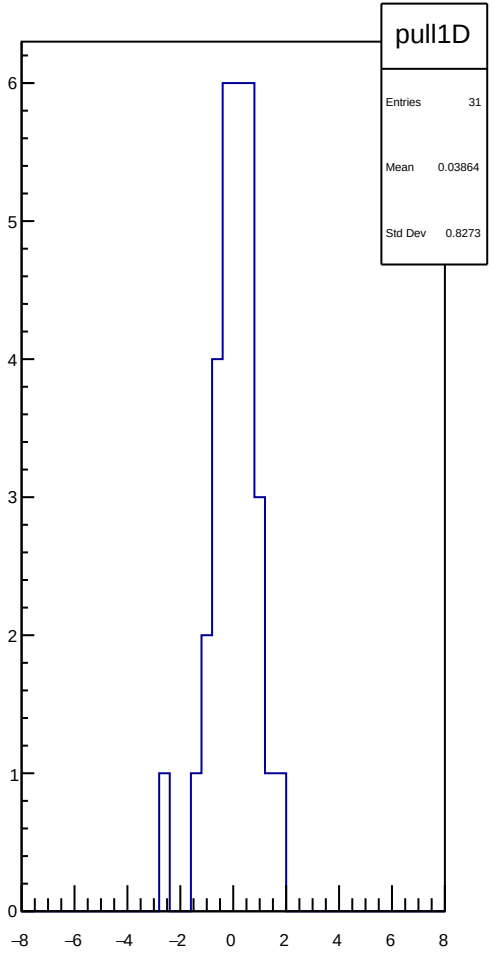

diff_cav4cX_rms vs run
χ² / ndf 2.585e+04 / 30
p0 2400 ± 3.15
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

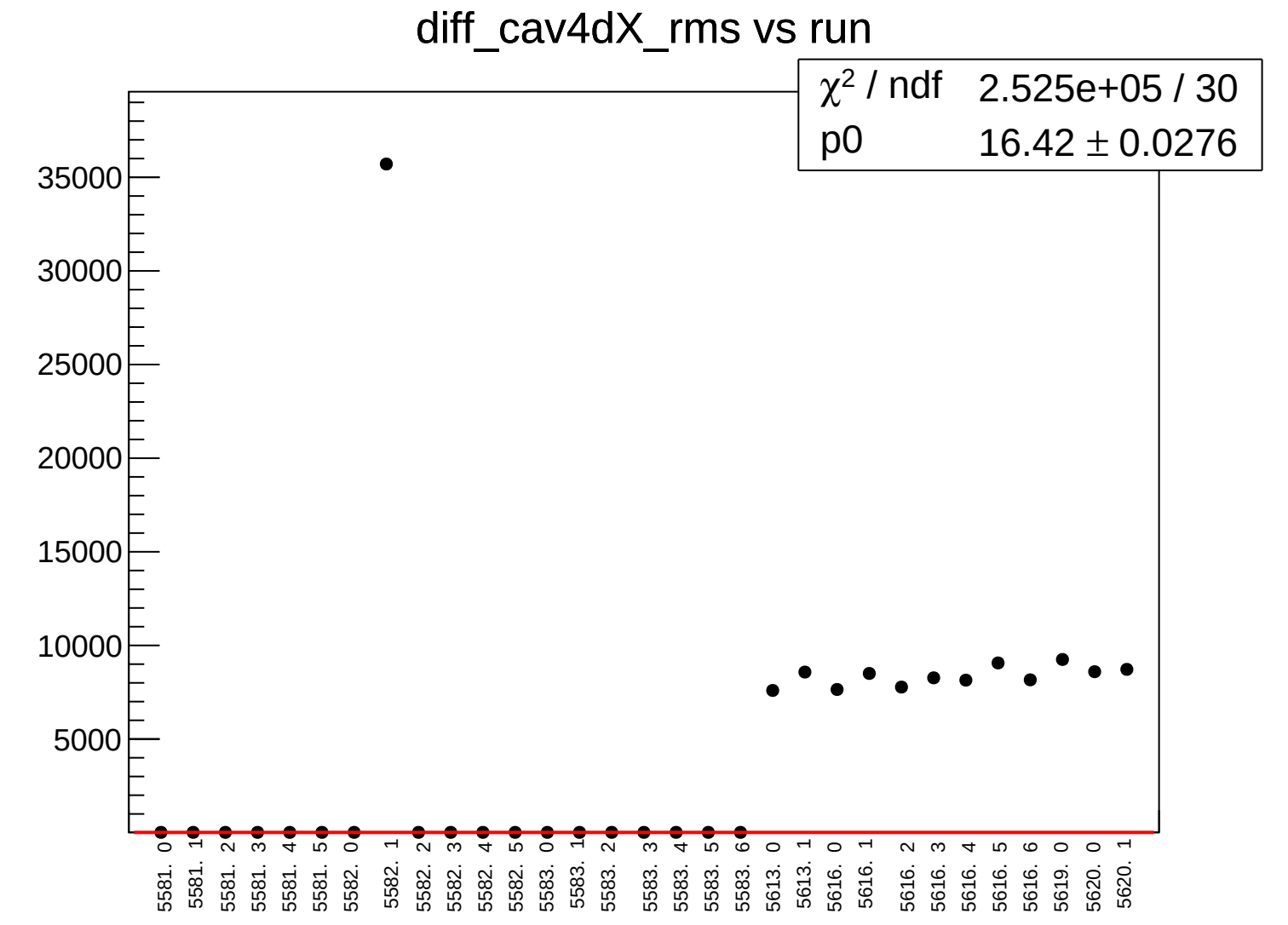

diff_cav4cY_mean vs run
χ² / ndf 38.48 / 30
p0 −3.914 ± 7.445
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 52.11
Std Dev 37.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

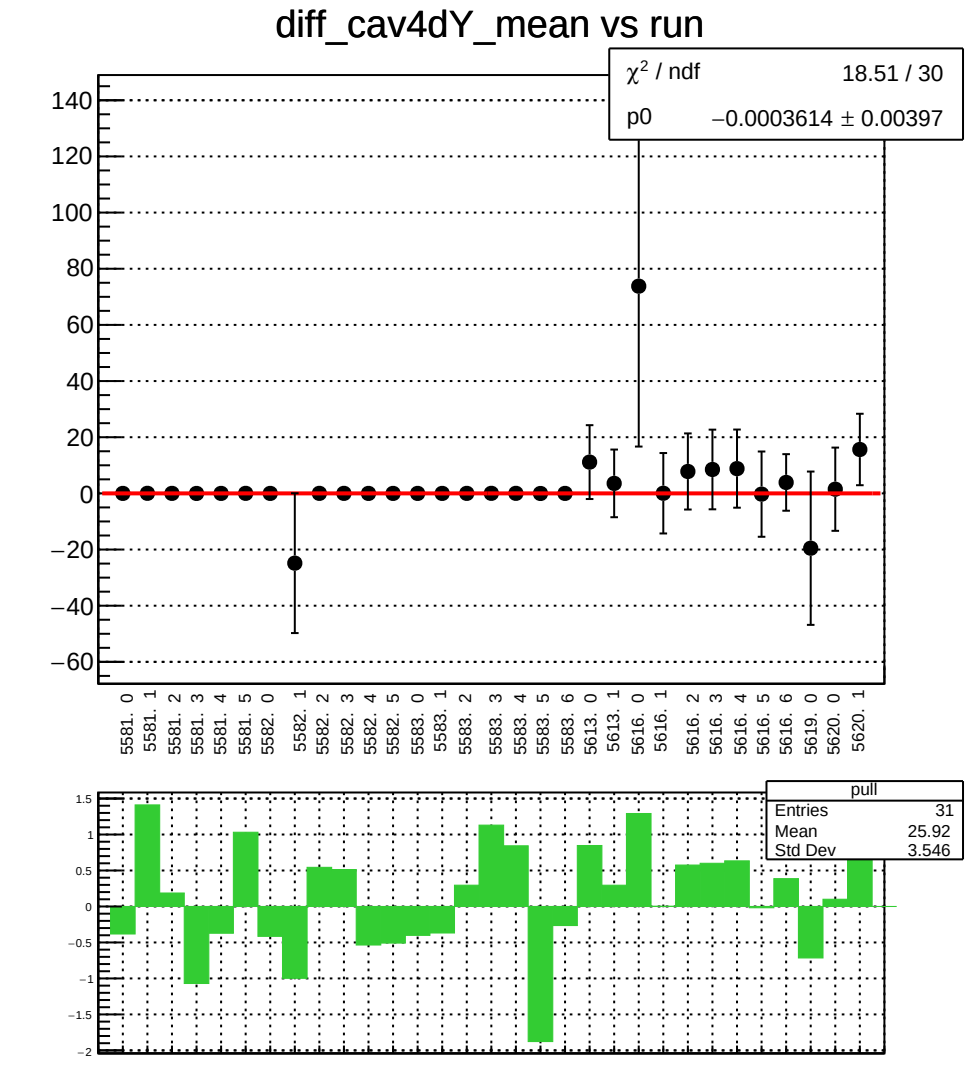

pull1D
Entries 31
Mean 0.08028
Std Dev 1.111
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

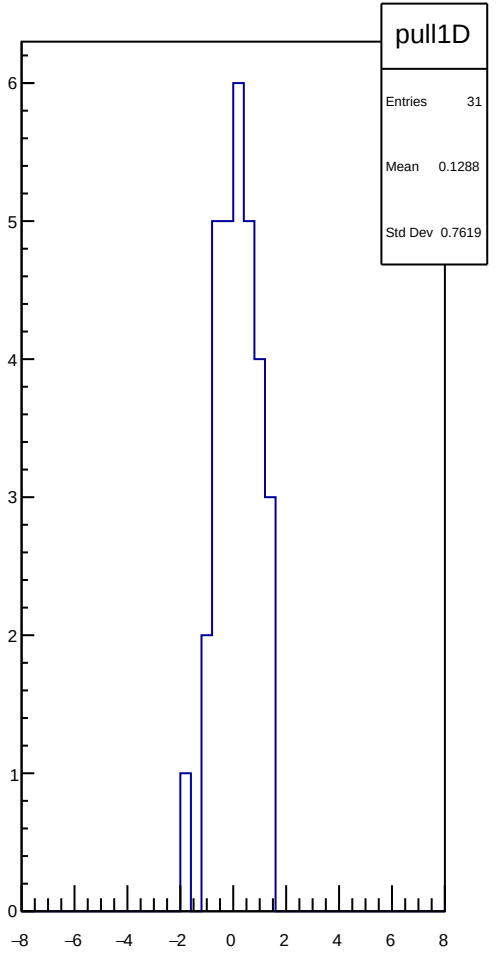

diff_cav4cY_rms vs run
χ² / ndf 2.933e+04 / 30
p0 4000 ± 5.265
6000
5500
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

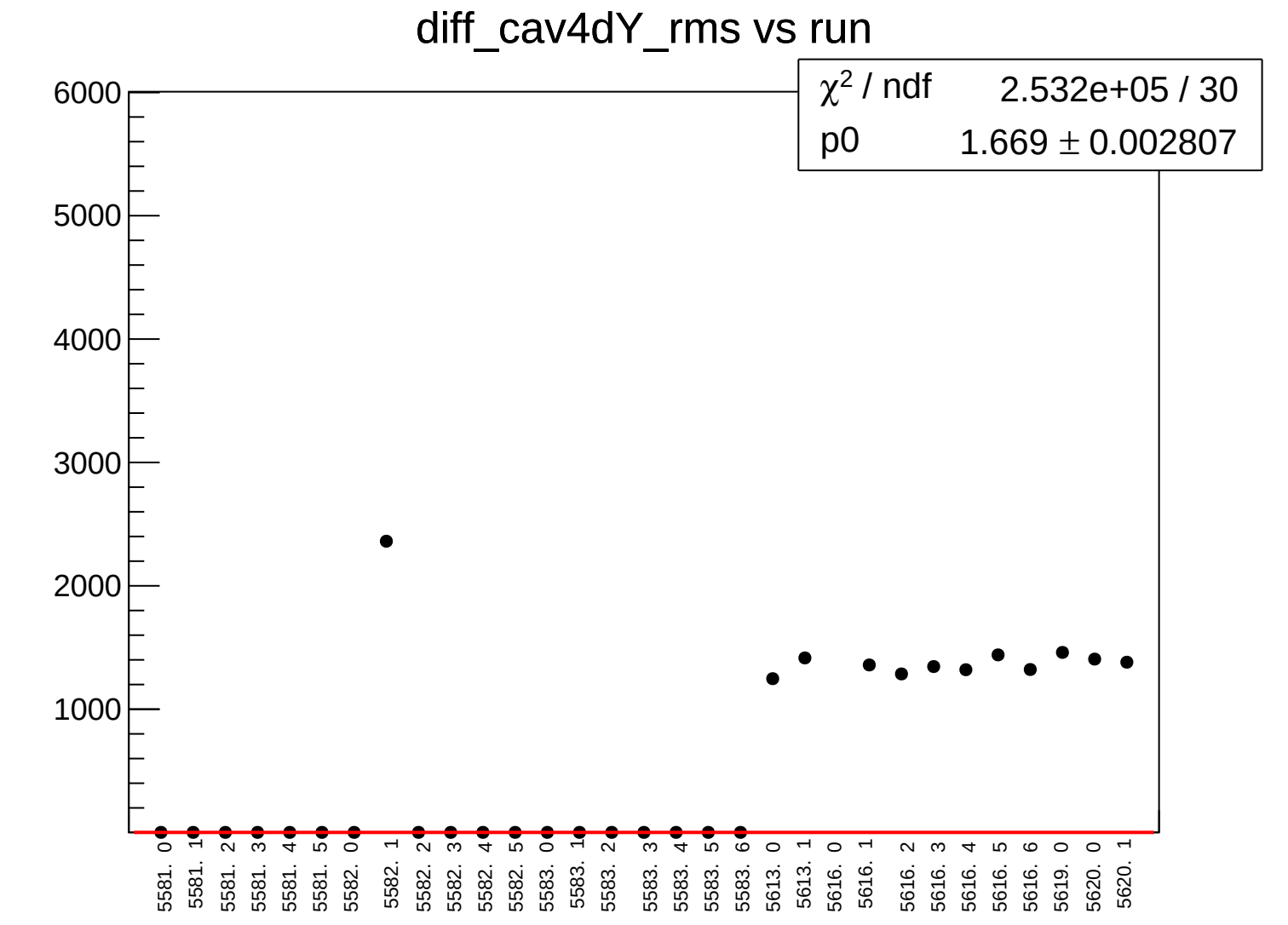

diff_cav4dX_mean vs run
χ² / ndf 21.26 / 30
p0 −0.009332 ± 0.03903
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 61.45
Std Dev 46.96
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

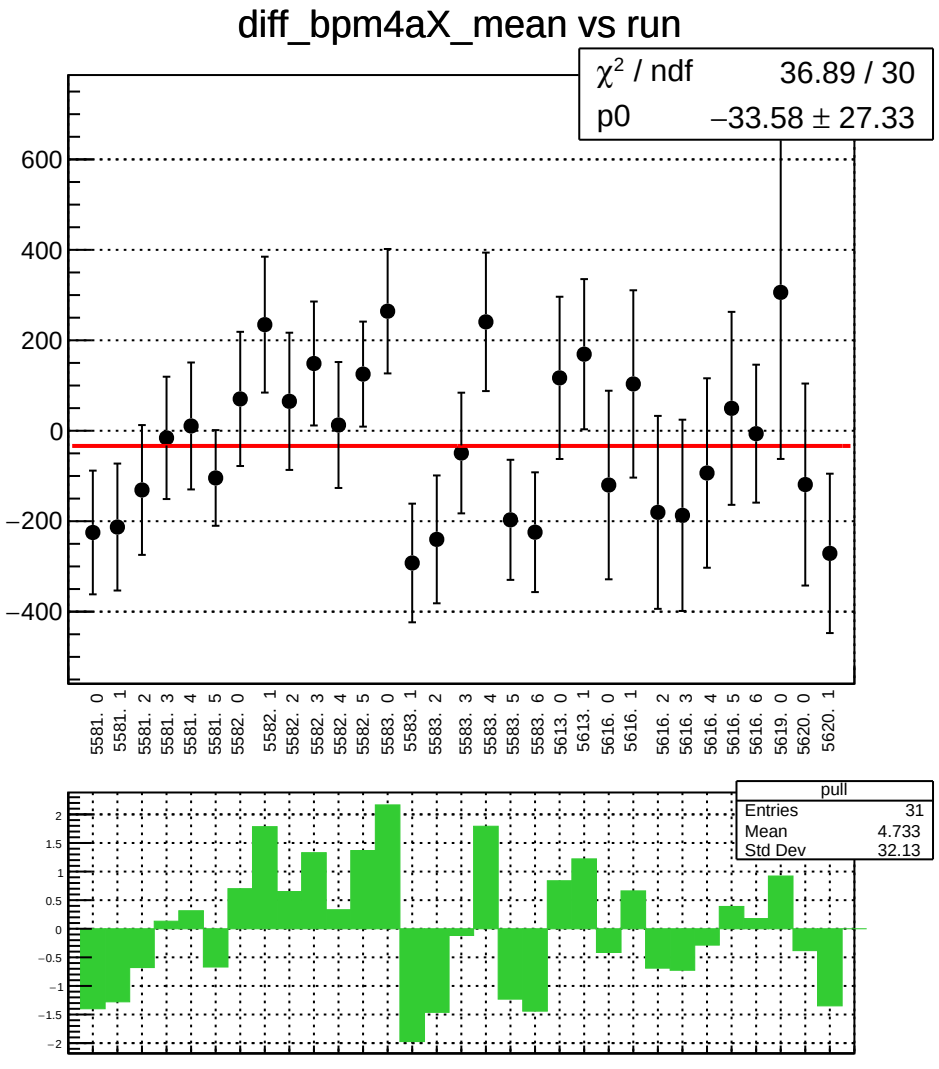

pull1D
Entries 31
Mean 0.03864
Std Dev 0.8273
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

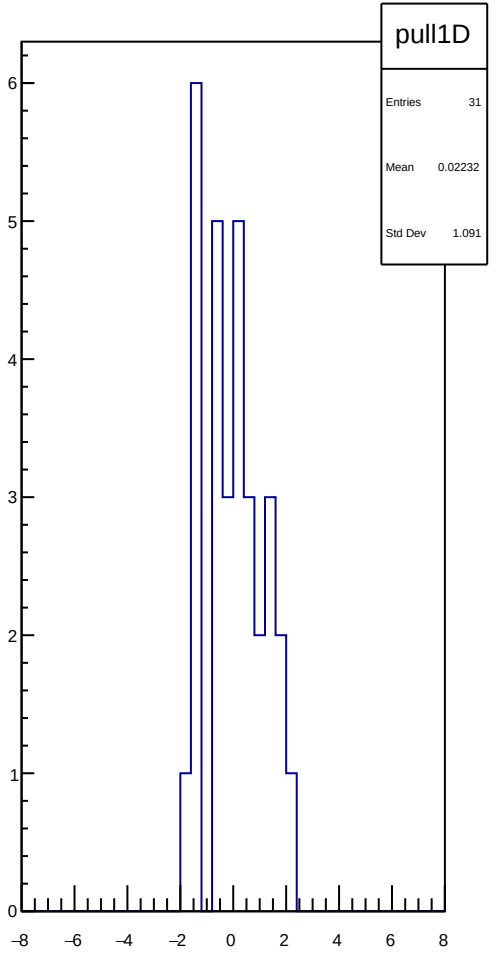

diff_cav4dX_rms vs run
χ² / ndf 2.525e+05 / 30
p0 16.42 ± 0.0276
35000
30000
25000
20000
15000
10000
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

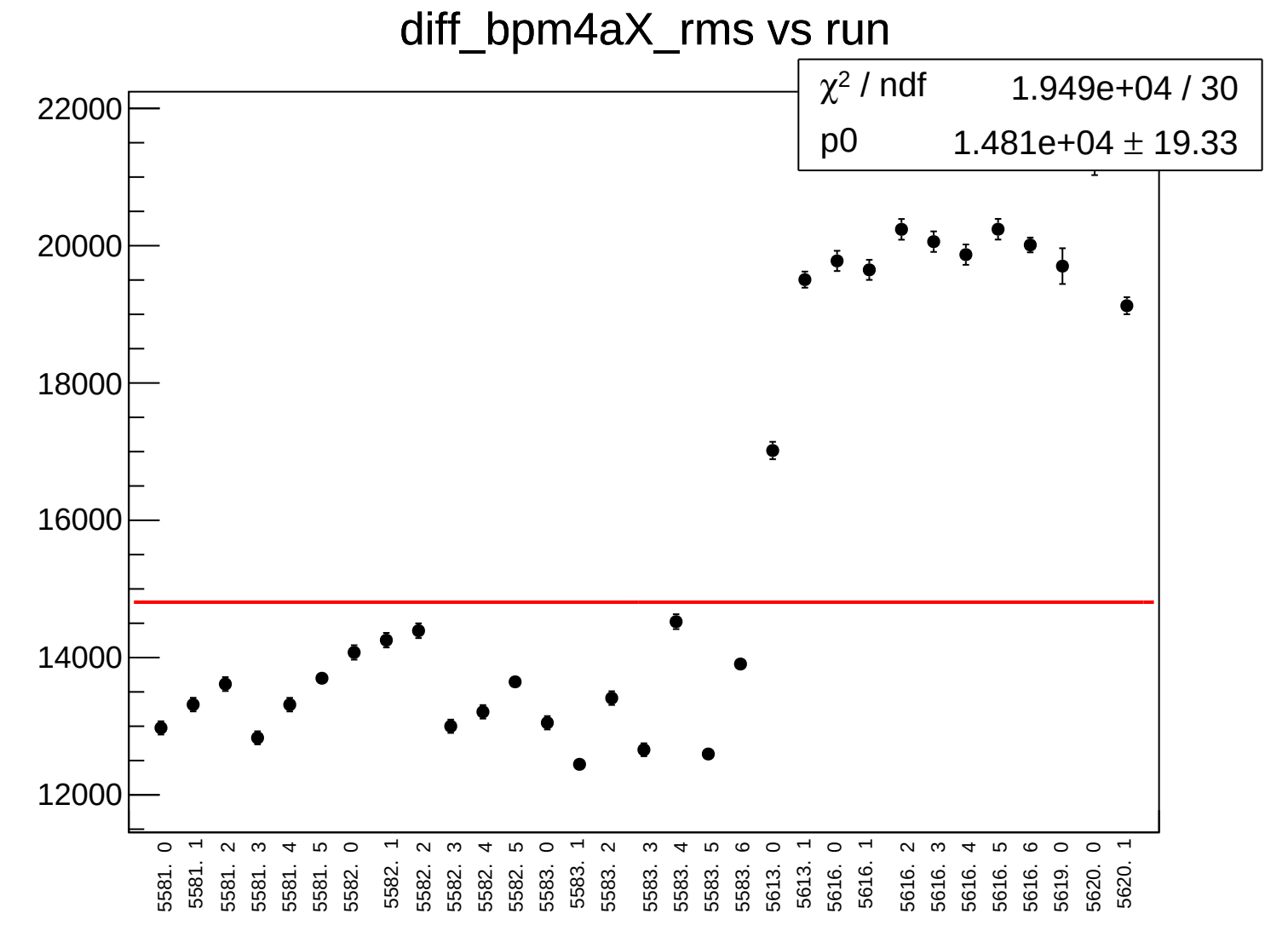

diff_cav4dY_mean vs run
χ² / ndf 18.51 / 30
p0 −0.0003614 ± 0.00397
140
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 25.92
Std Dev 3.546
1.5
1
0.5
0
−0.5
−1
−1.5
−2

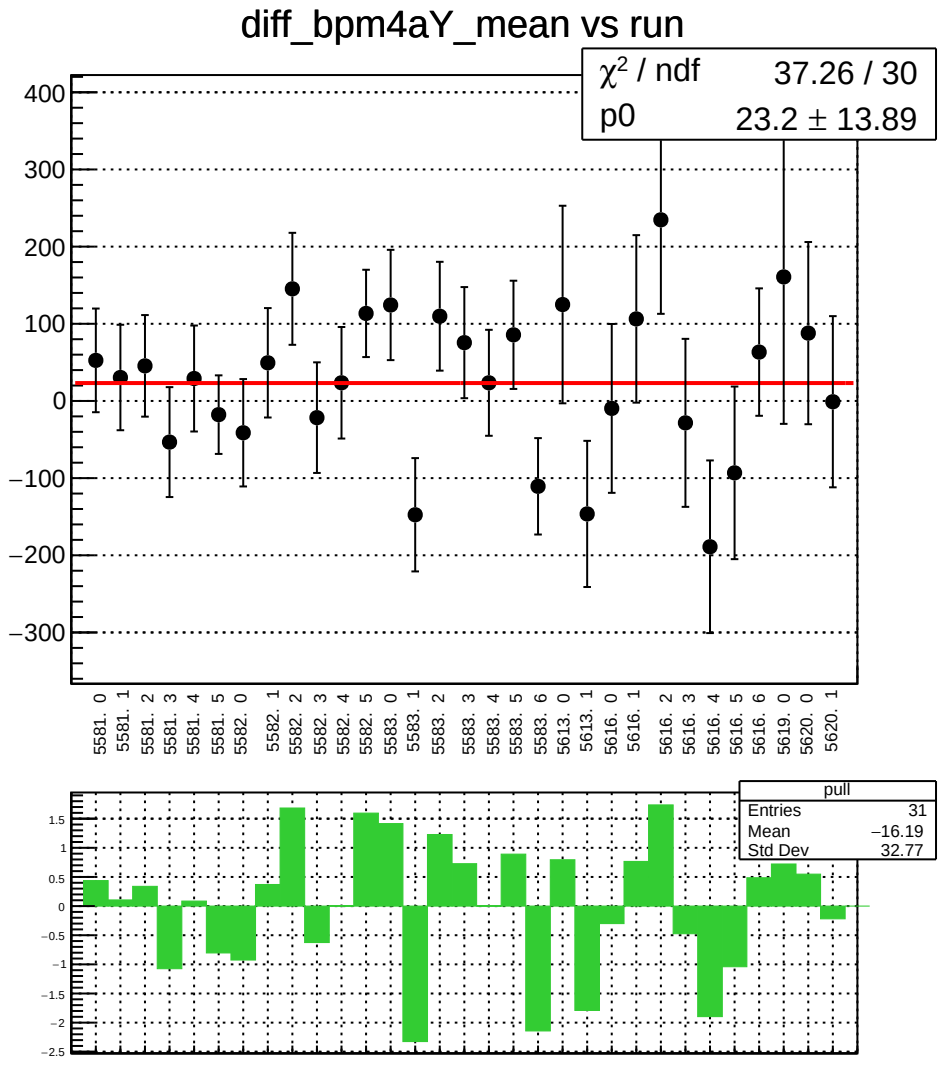

pull1D
Entries 31
Mean 0.1288
Std Dev 0.7619
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

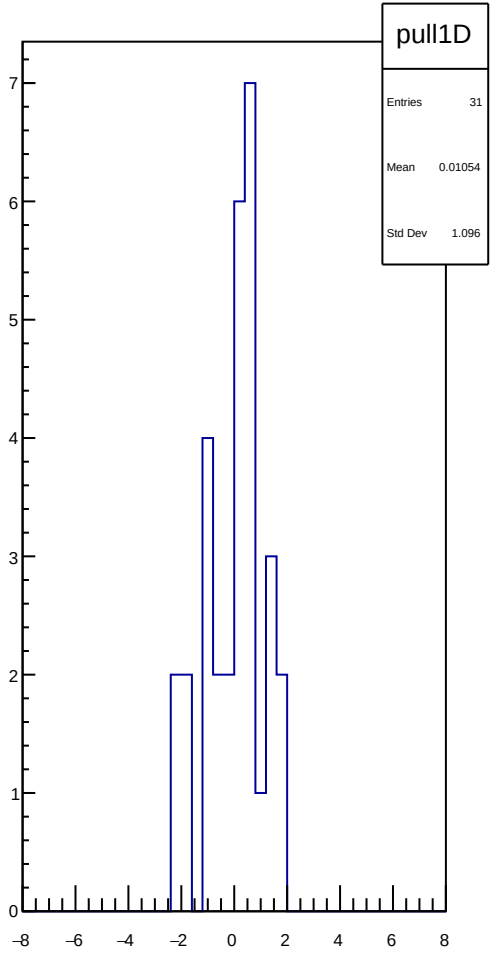

diff_cav4dY_rms vs run
χ² / ndf 2.532e+05 / 30
p0 1.669 ± 0.002807
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

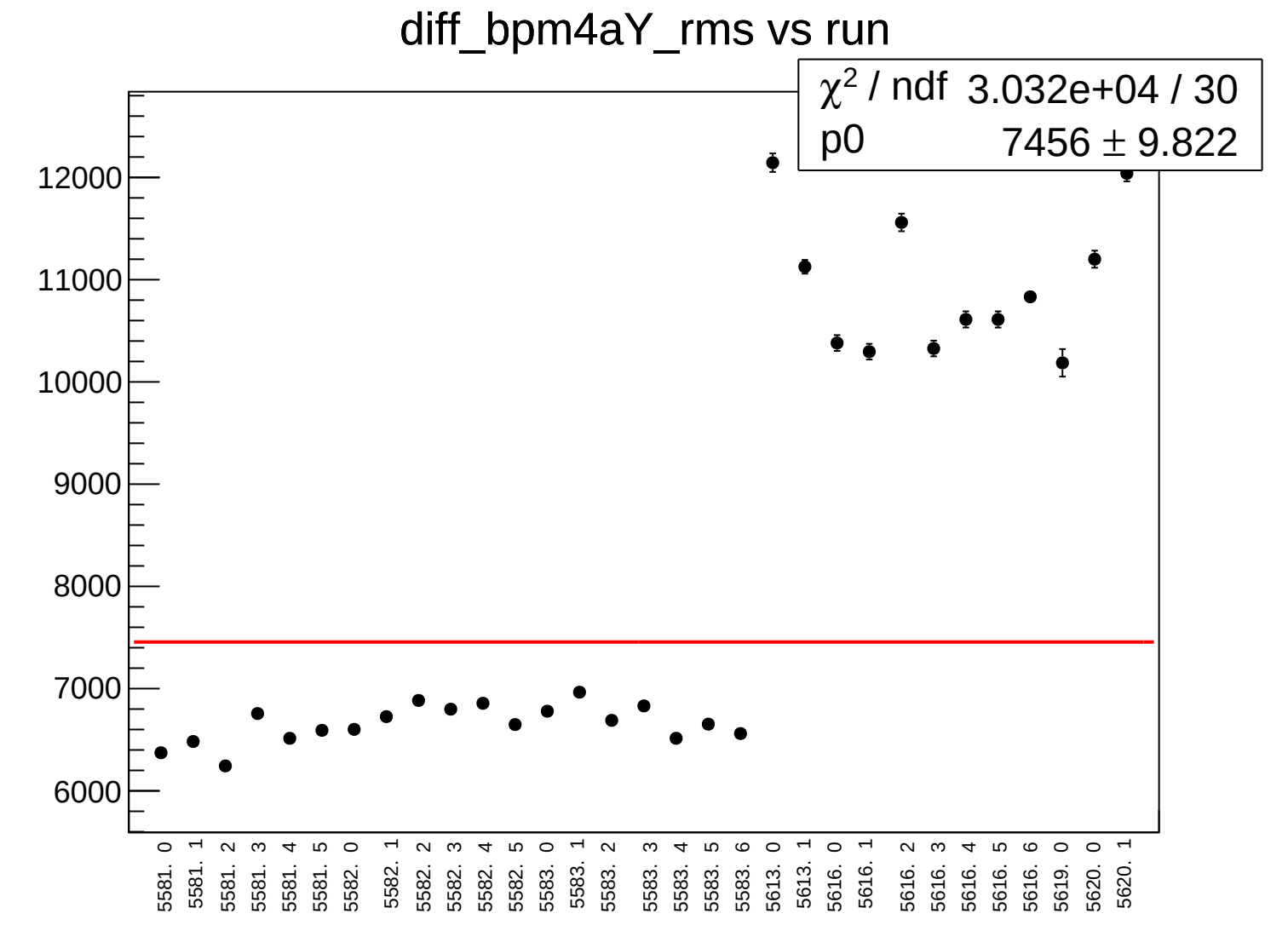

diff_bpm4aX_mean vs run
χ² / ndf 36.89 / 30
p0 −33.58 ± 27.33
600
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 4.733
Std Dev 32.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

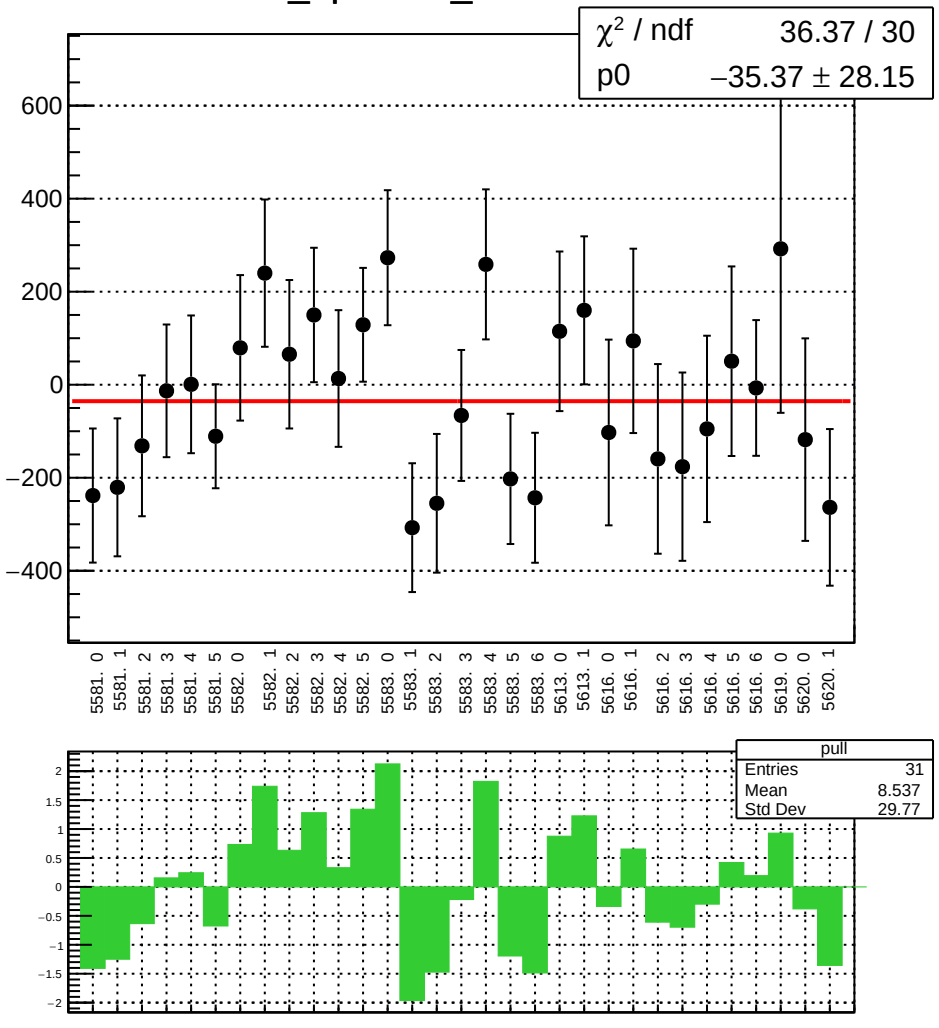

pull1D
Entries 31
Mean 0.02232
Std Dev 1.091
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

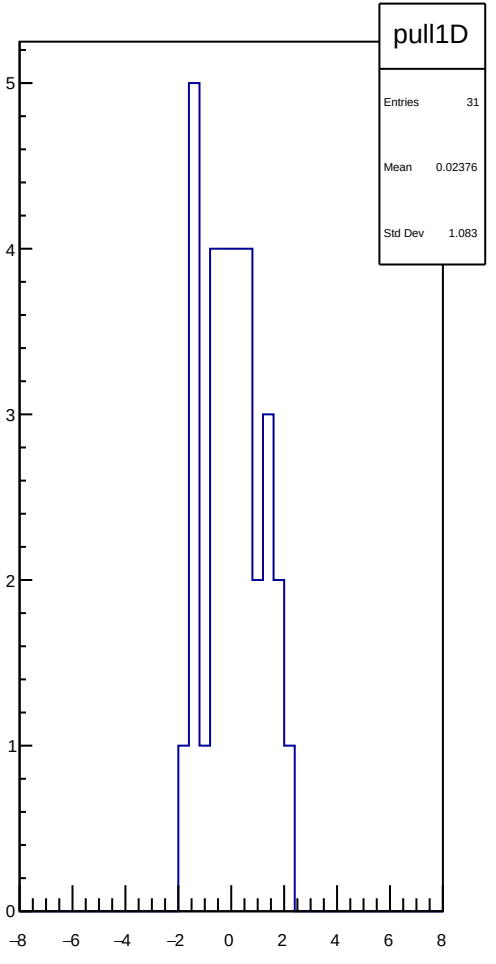

diff_bpm4aX_rms vs run
χ² / ndf 1.949e+04 / 30
p0 1.481e+04 ± 19.33
22000
20000
18000
16000
14000
12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

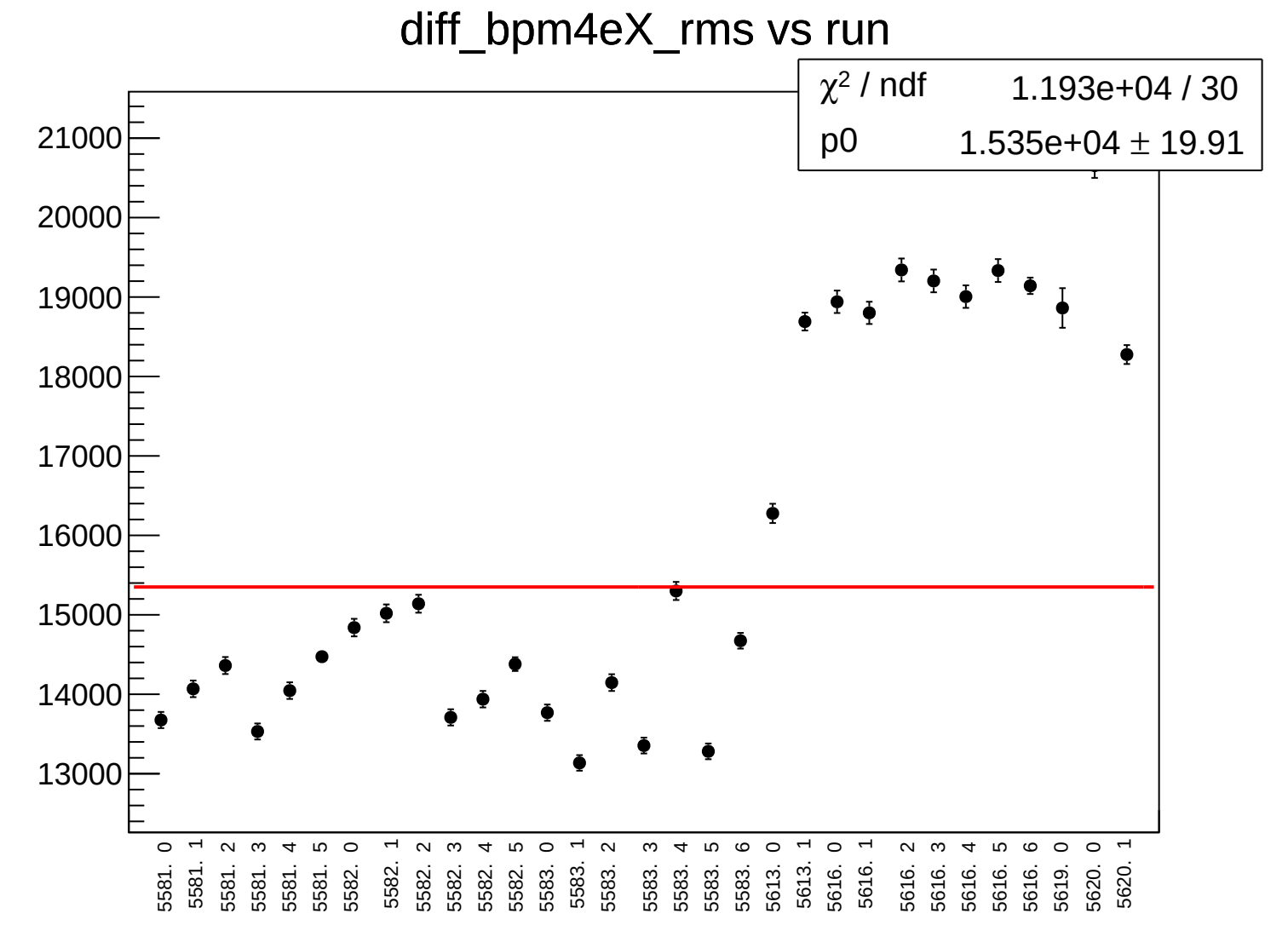

diff_bpm4aY_mean vs run
χ² / ndf 37.26 / 30
p0 23.2 ± 13.89
400
300
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −16.19
Std Dev 32.77
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

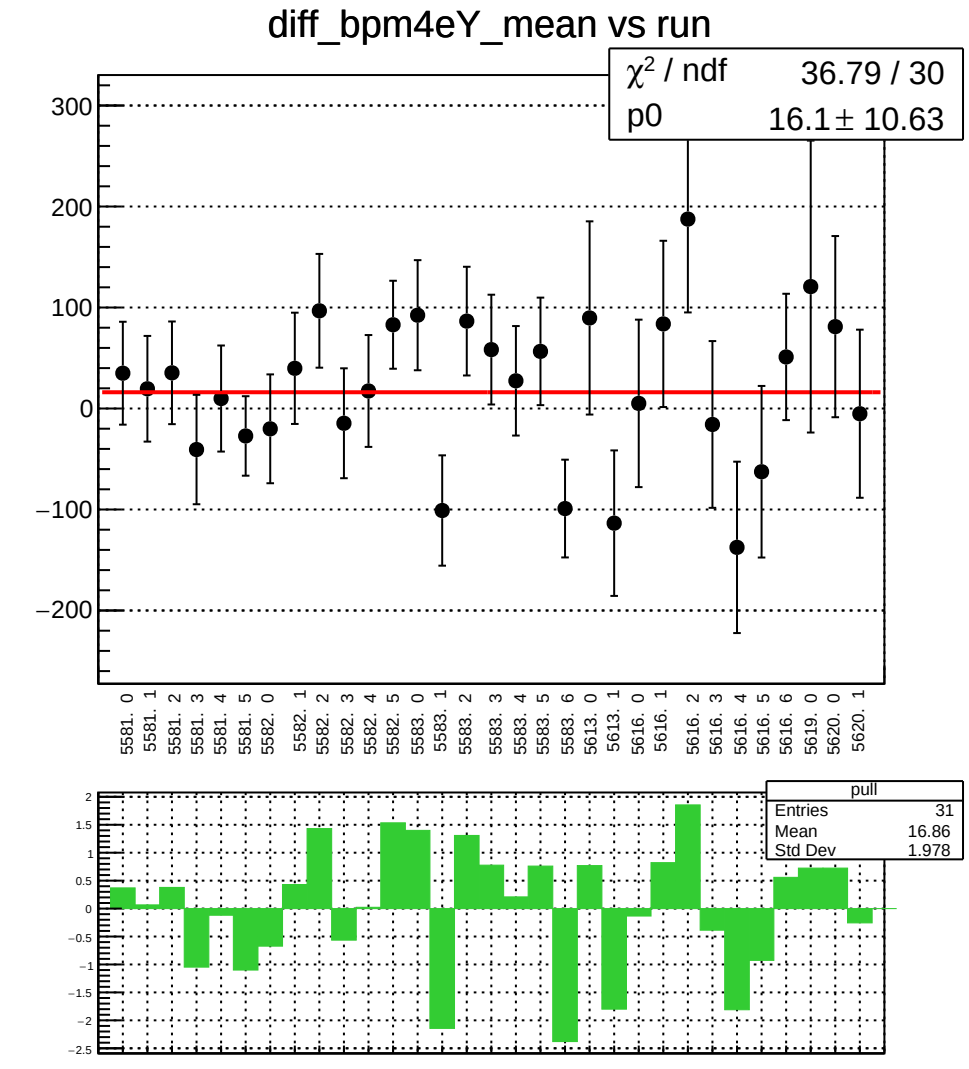

pull1D
Entries 31
Mean 0.01054
Std Dev 1.096
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

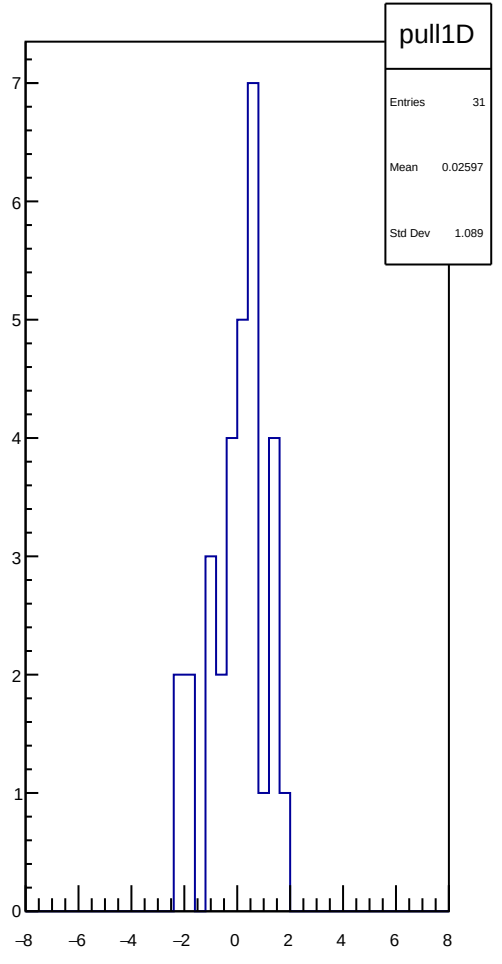

diff_bpm4aY_rms vs run
χ² / ndf 3.032e+04 / 30
p0 7456 ± 9.822
12000
11000
10000
9000
8000
7000
6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

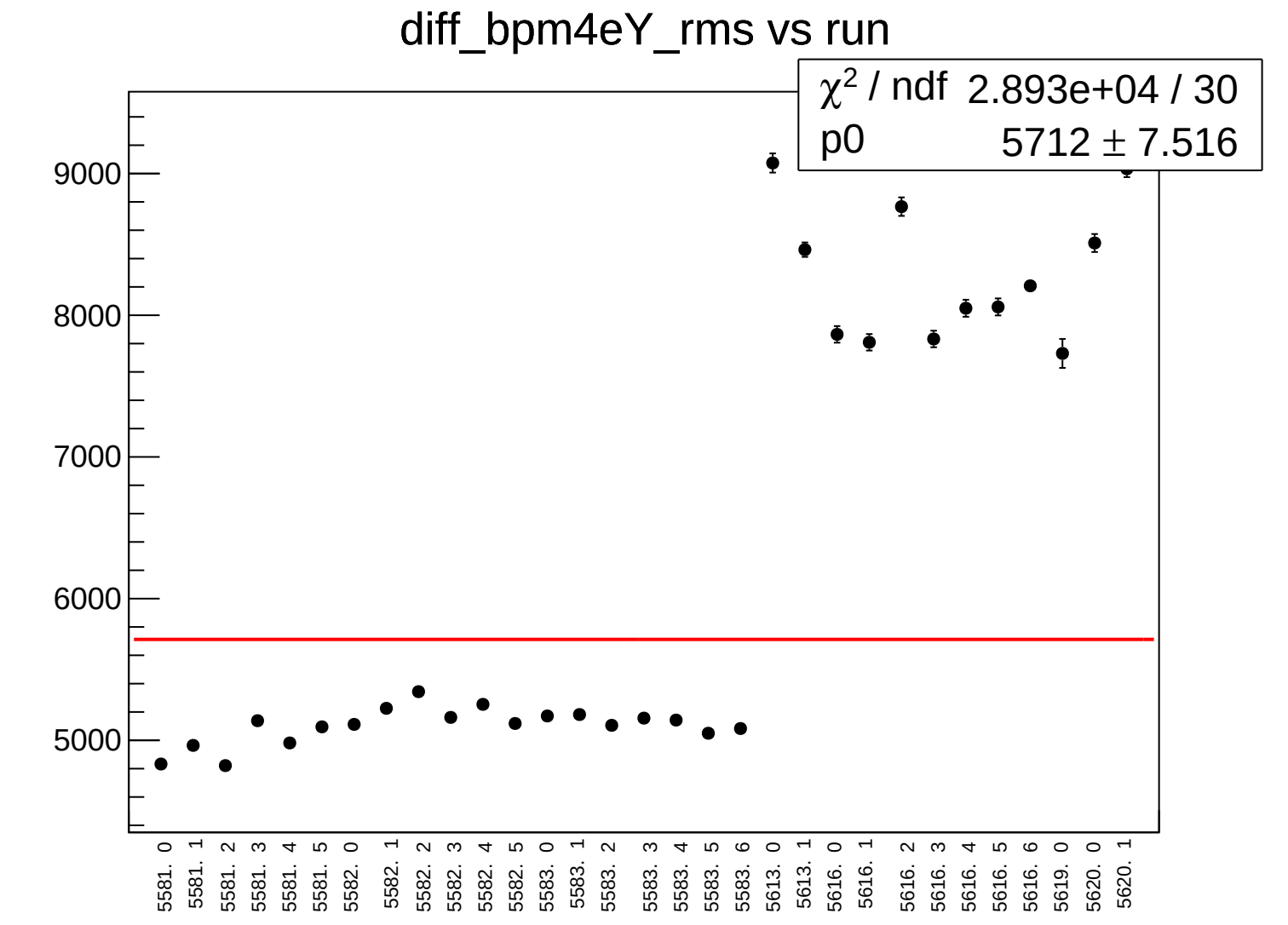

diff_bpm4eX_mean vs run
χ² / ndf 36.37 / 30
p0 −35.37 ± 28.15
600
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.537
Std Dev 29.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

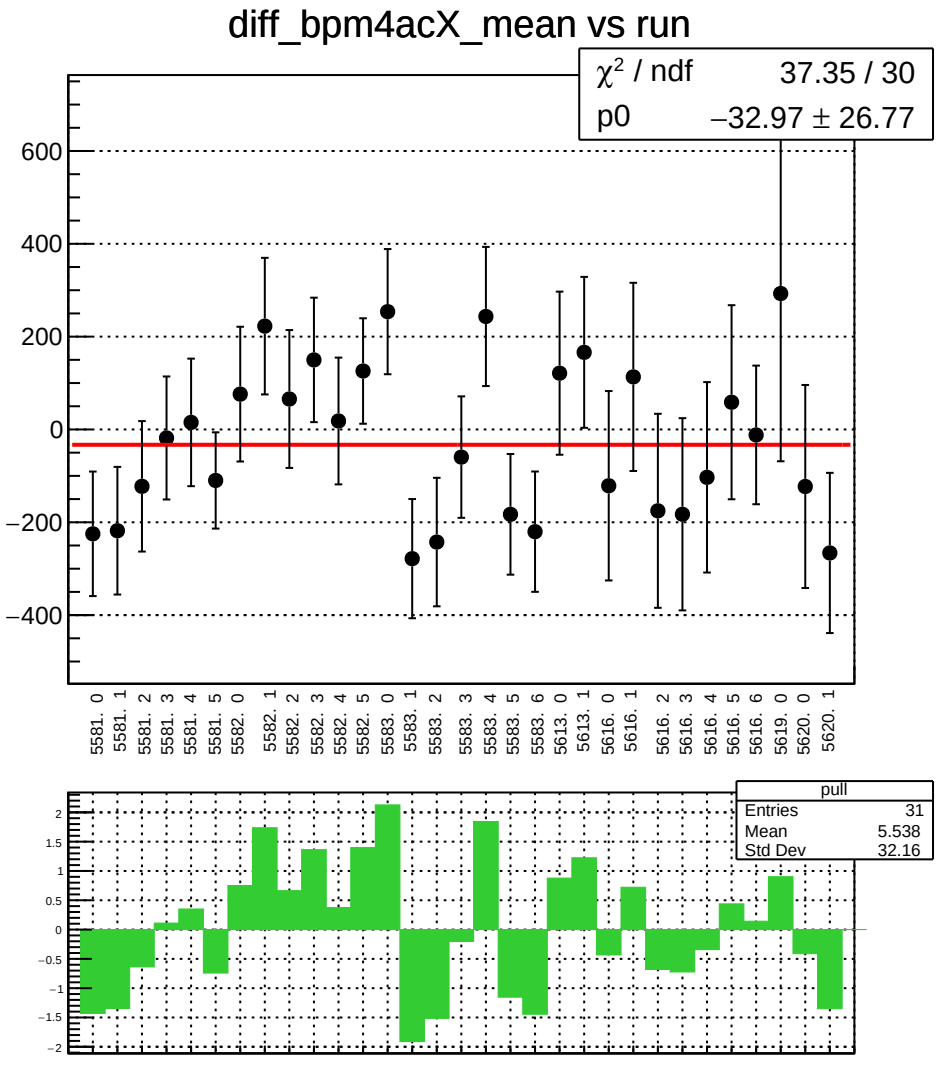

pull1D
Entries 31
Mean 0.02376
Std Dev 1.083
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

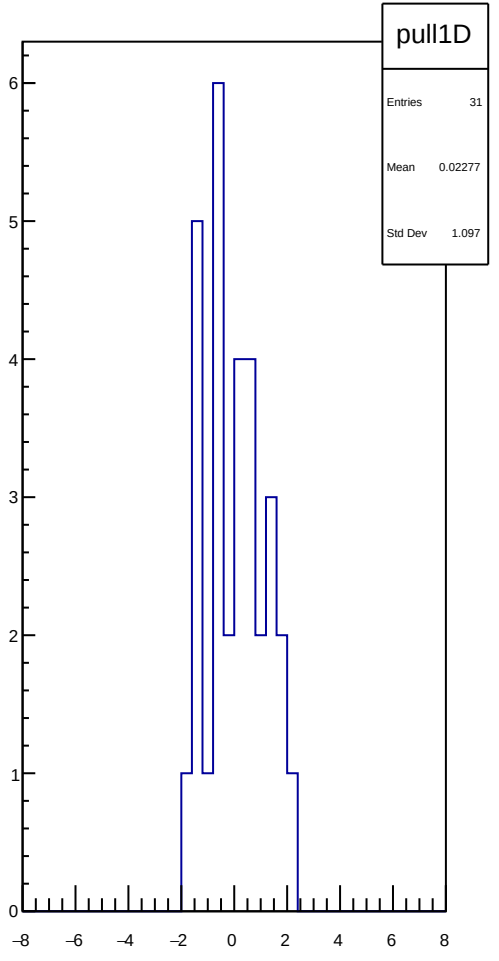

diff_bpm4eX_rms vs run
χ² / ndf 1.193e+04 / 30
p0 1.535e+04 ± 19.91
21000
20000
19000
18000
17000
16000
15000
14000
13000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

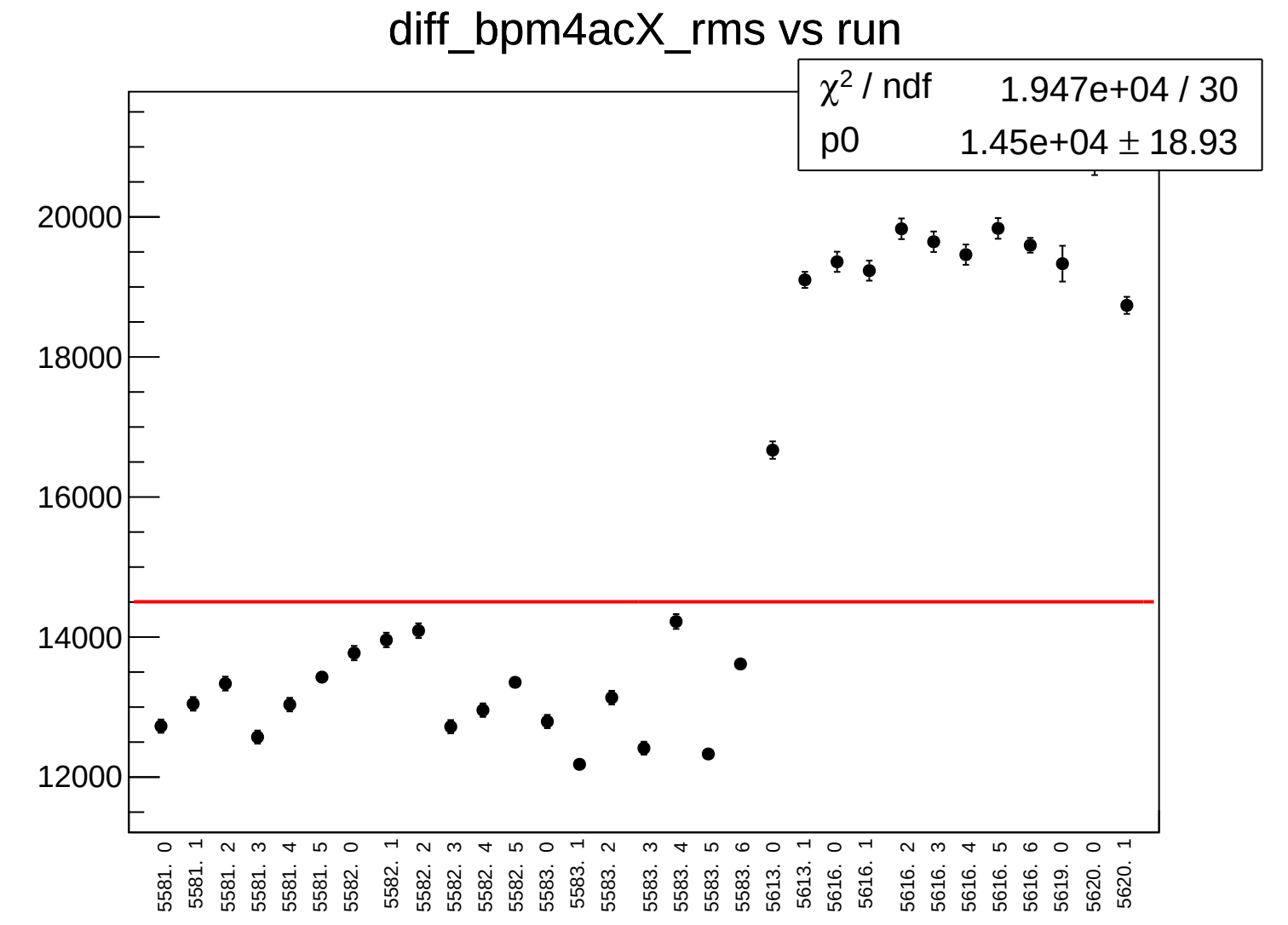

diff_bpm4eY_mean vs run
χ² / ndf 36.79 / 30
p0 16.1 ± 10.63
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.86
Std Dev 1.978
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

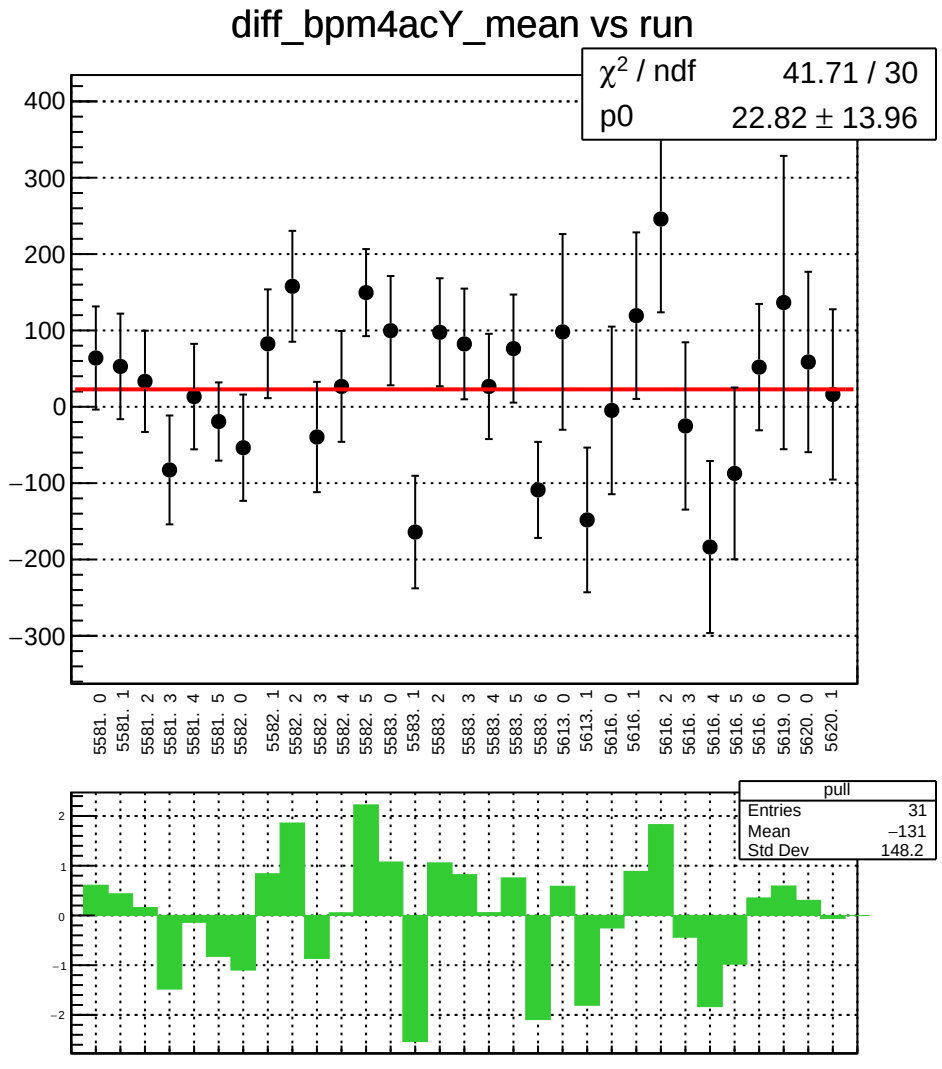

pull1D
Entries 31
Mean 0.02597
Std Dev 1.089
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

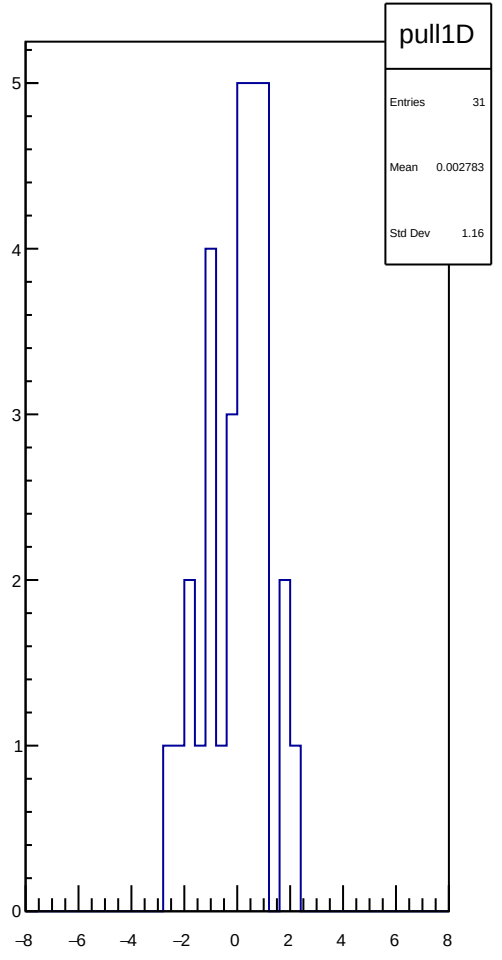

diff_bpm4eY_rms vs run
χ² / ndf 2.893e+04 / 30
p0 5712 ± 7.516
9000
8000
7000
6000
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

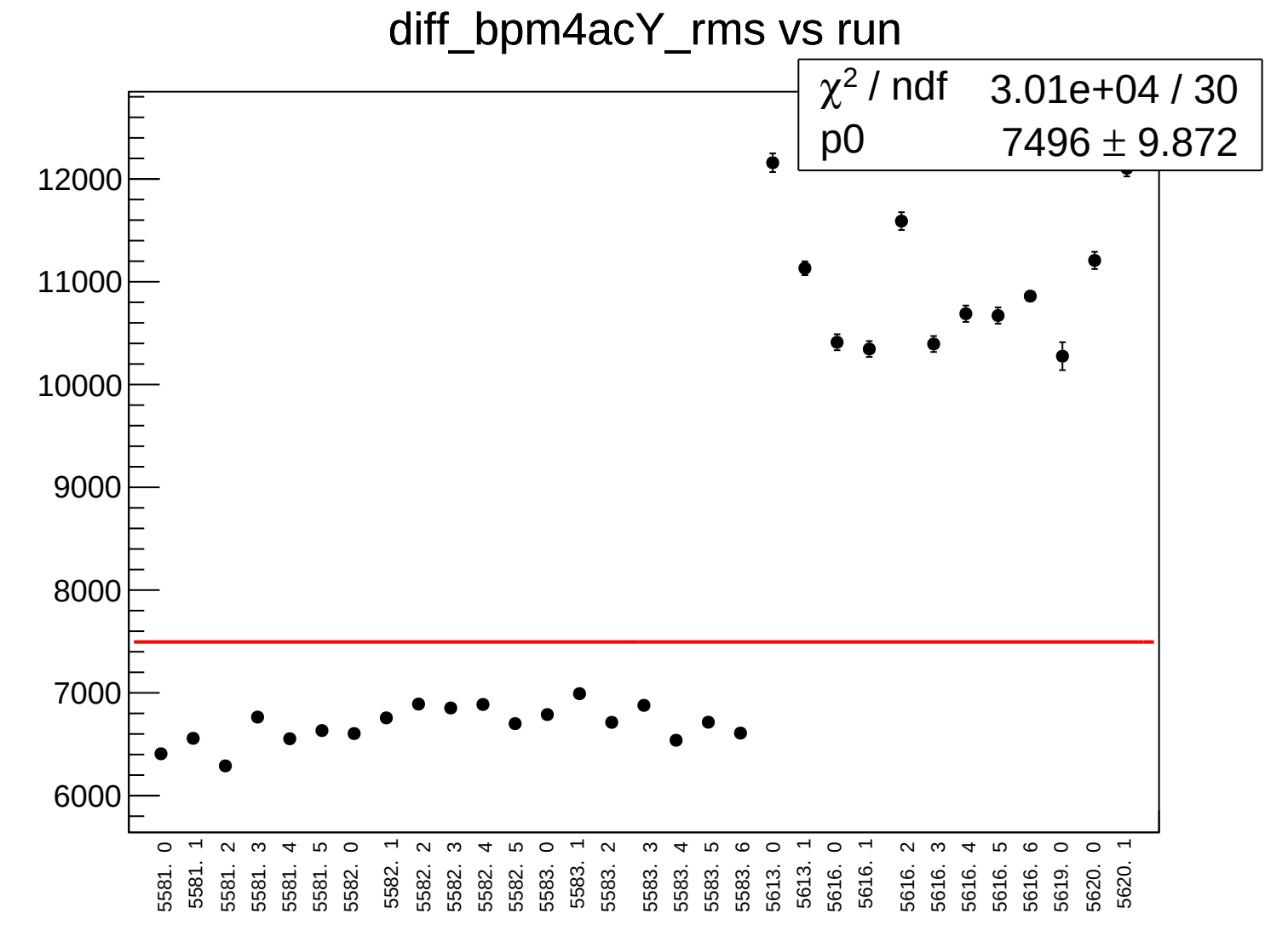

diff_bpm4acX_mean vs run
χ² / ndf 37.35 / 30
p0 −32.97 ± 26.77
600
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 5.538
Std Dev 32.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

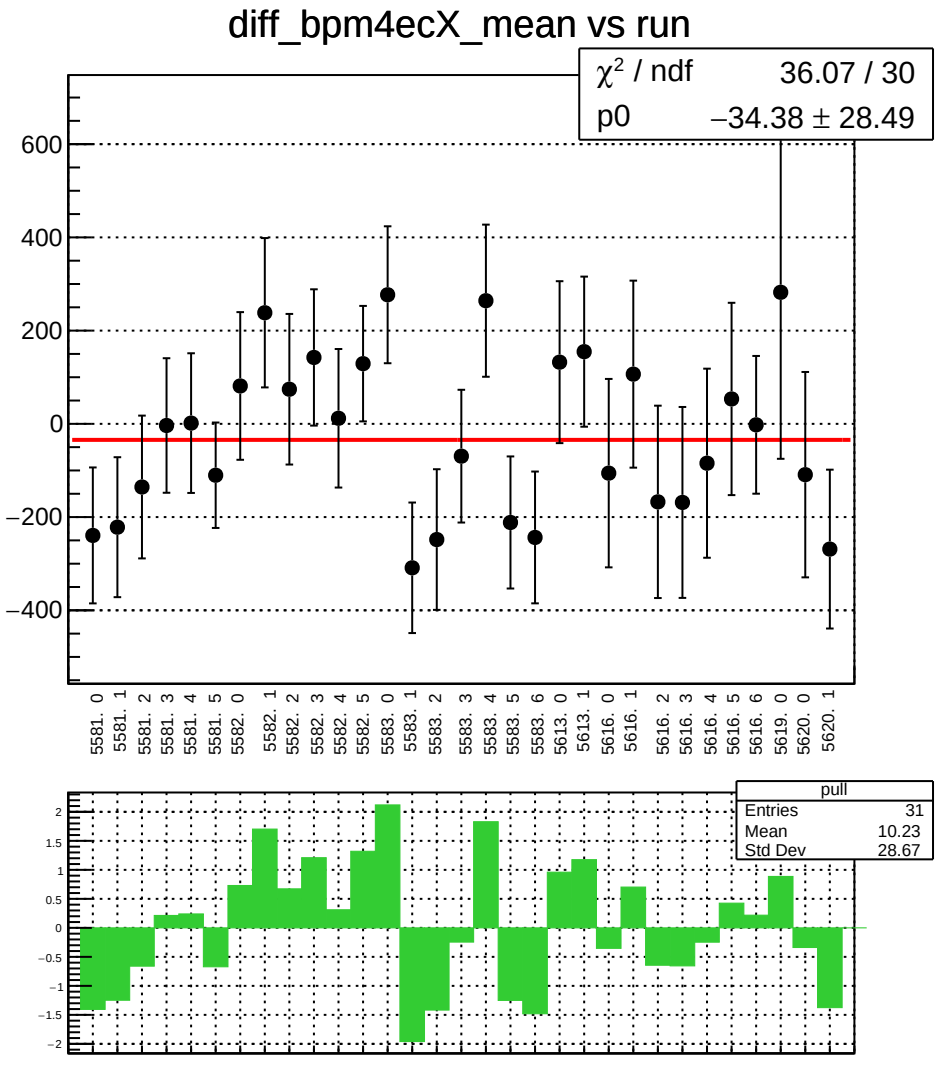

pull1D
Entries 31
Mean 0.02277
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

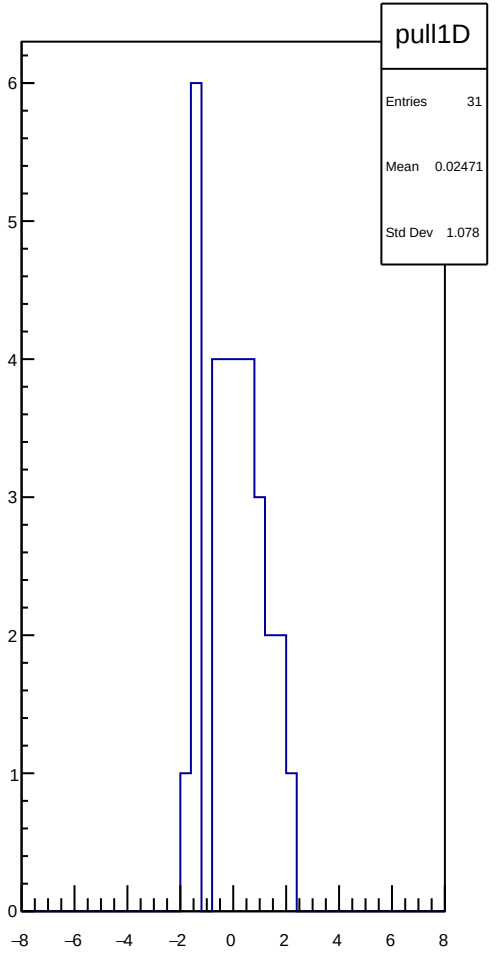

diff_bpm4acX_rms vs run
χ² / ndf 1.947e+04 / 30
p0 1.45e+04 ± 18.93
20000
18000
16000
14000
12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

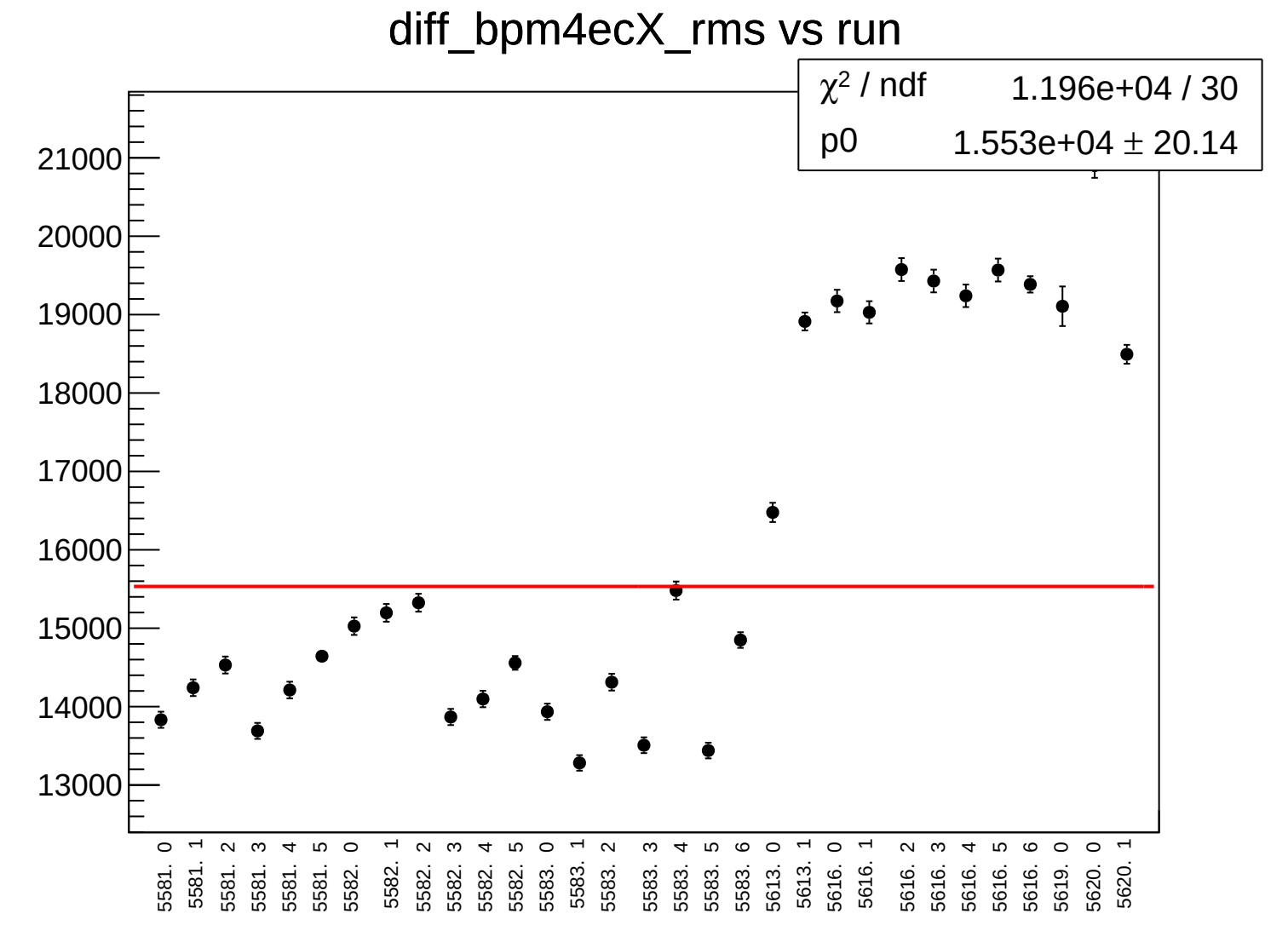

diff_bpm4acY_mean vs run
χ² / ndf 41.71 / 30
p0 22.82 ± 13.96
400
300
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −131
Std Dev 148.2
2
1
0
−1
−2

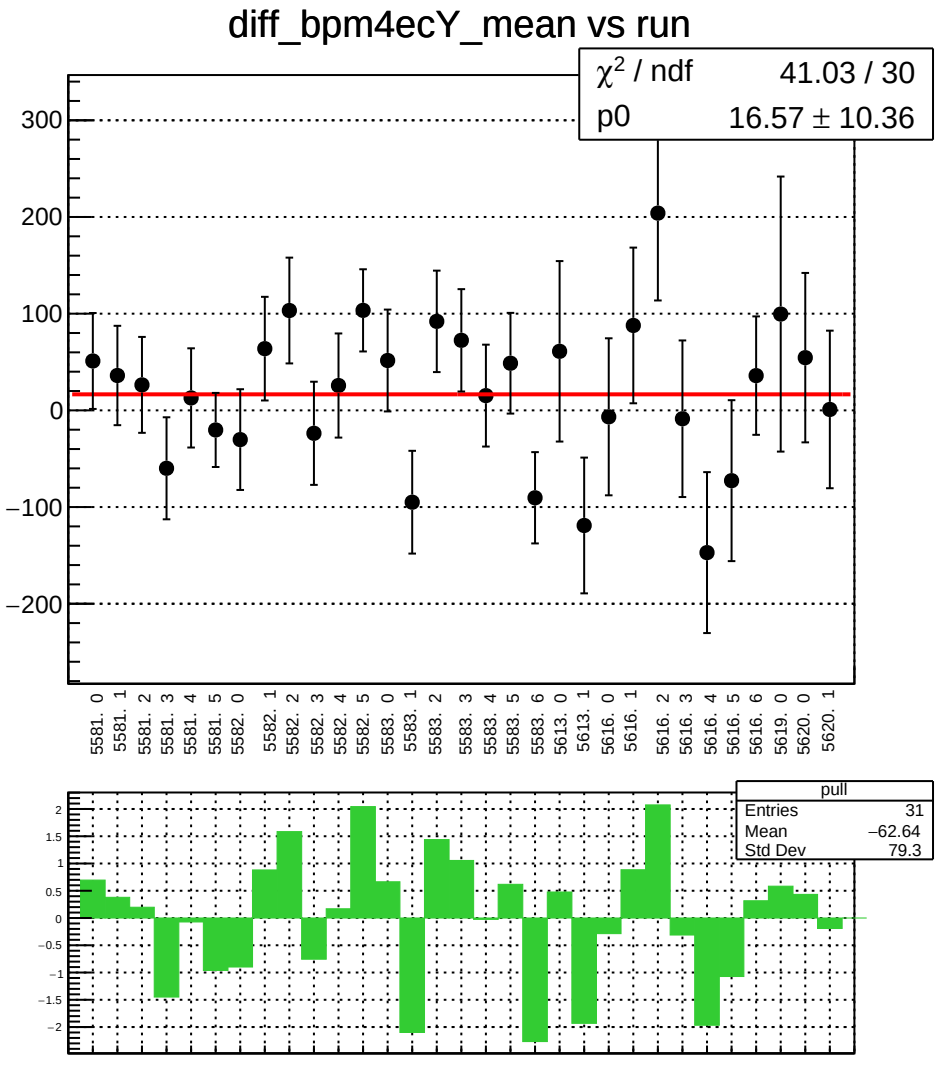

pull1D
Entries 31
Mean 0.002783
Std Dev 1.16
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

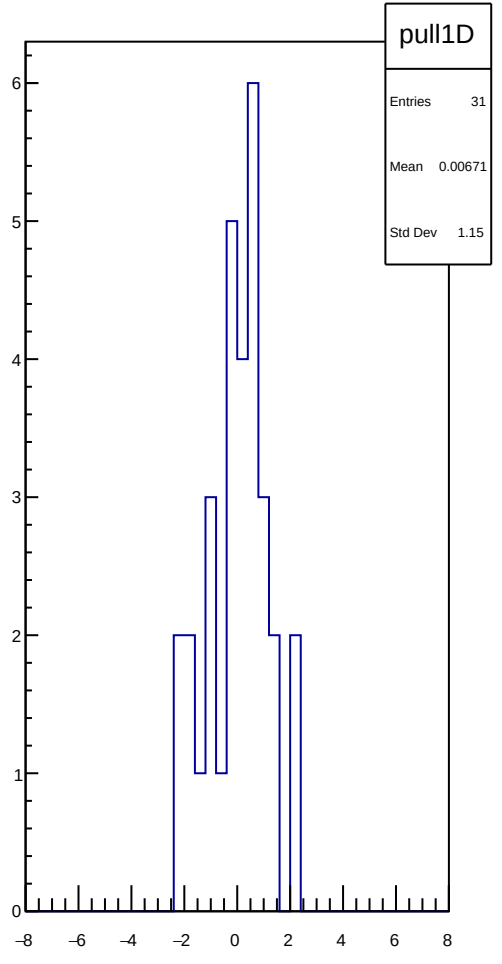

diff_bpm4acY_rms vs run
χ² / ndf 3.01e+04 / 30
p0 7496 ± 9.872
12000
11000
10000
9000
8000
7000
6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

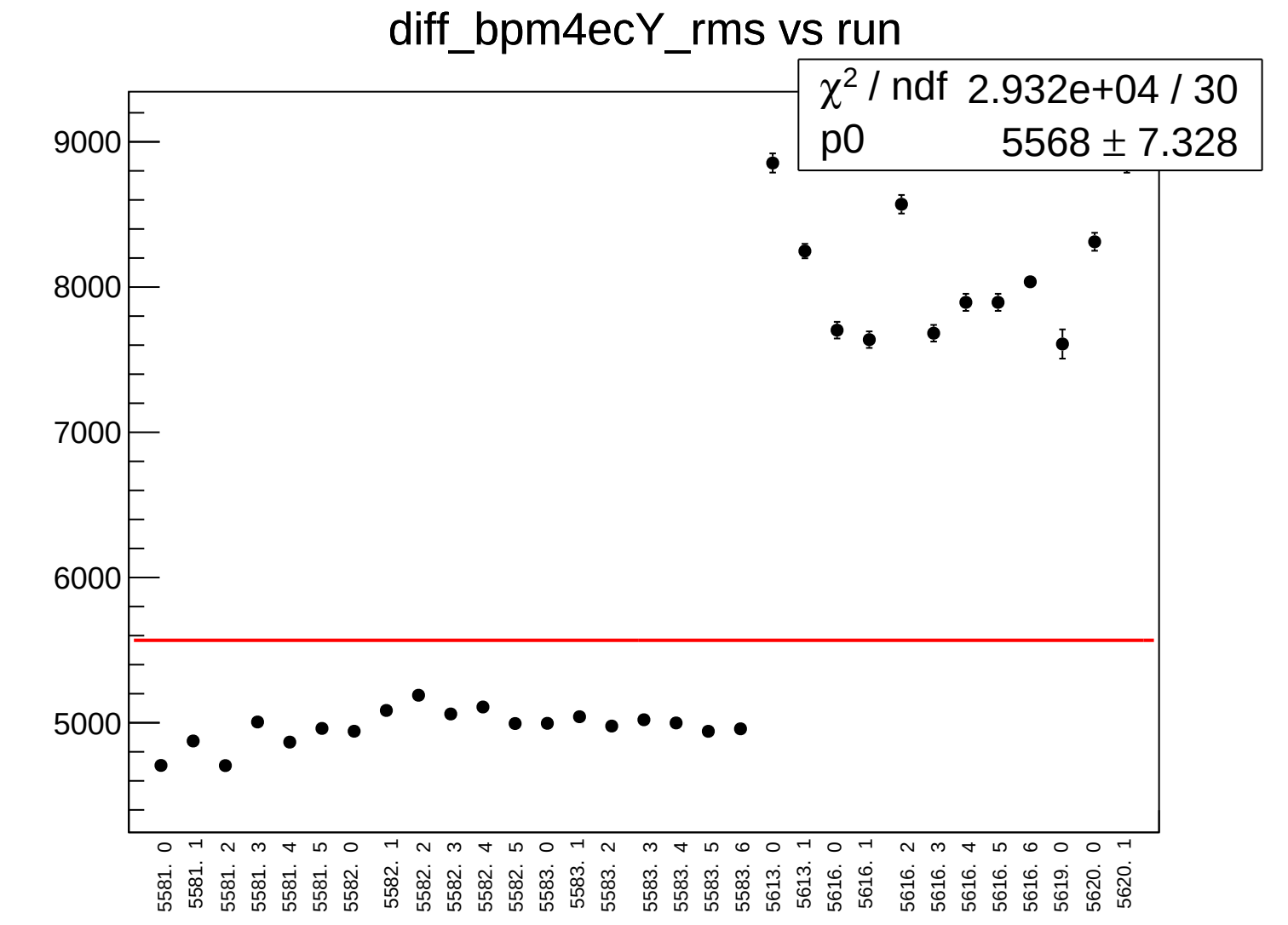

diff_bpm4ecX_mean vs run
χ² / ndf 36.07 / 30
p0 −34.38 ± 28.49
600
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.23
Std Dev 28.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

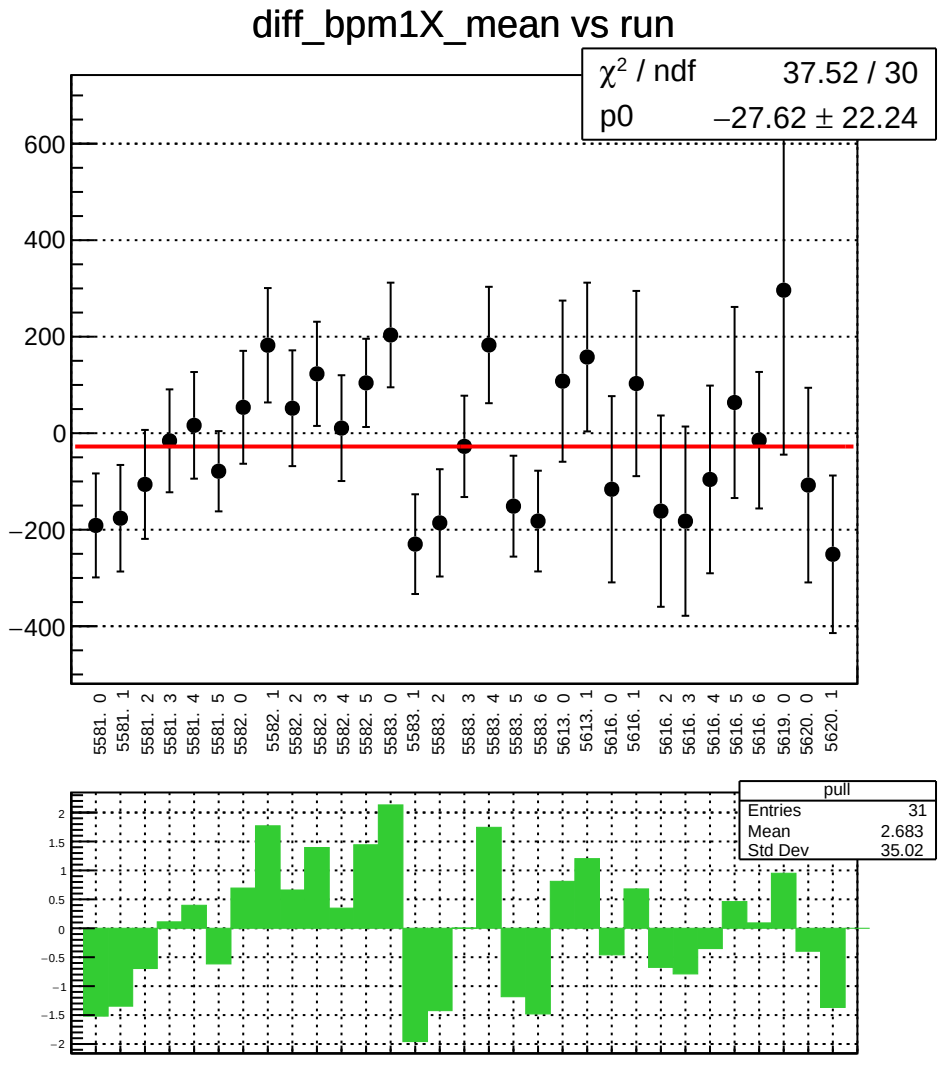

pull1D
Entries 31
Mean 0.02471
Std Dev 1.078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

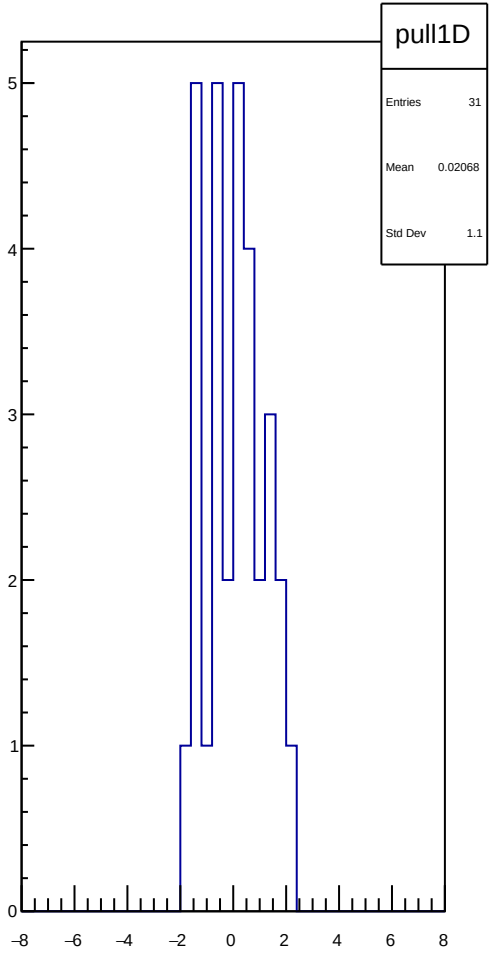

diff_bpm4ecX_rms vs run
χ² / ndf 1.196e+04 / 30
p0 1.553e+04 ± 20.14
21000
20000
19000
18000
17000
16000
15000
14000
13000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

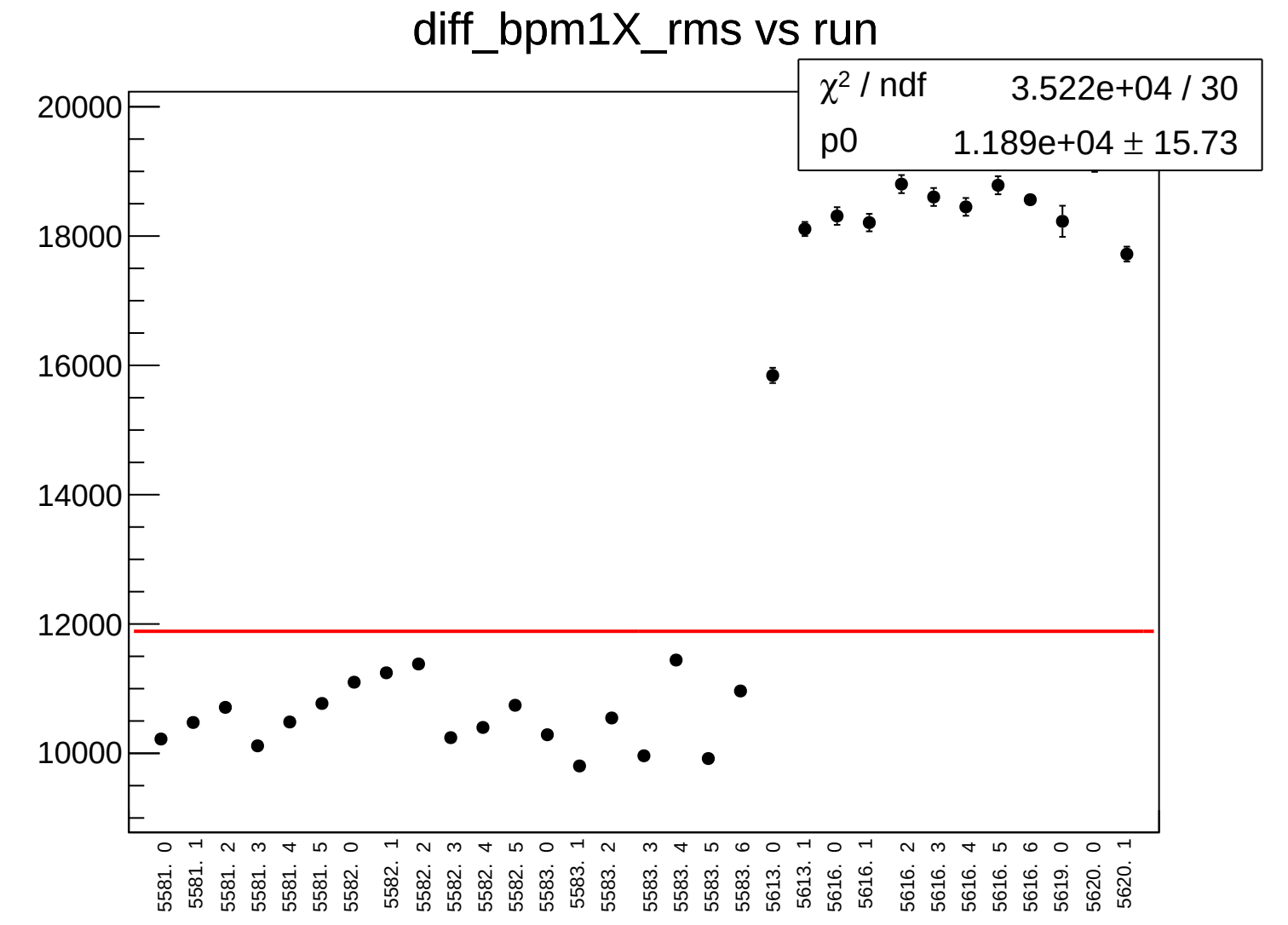

diff_bpm4ecY_mean vs run
χ² / ndf 41.03 / 30
p0 16.57 ± 10.36
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −62.64
Std Dev 79.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

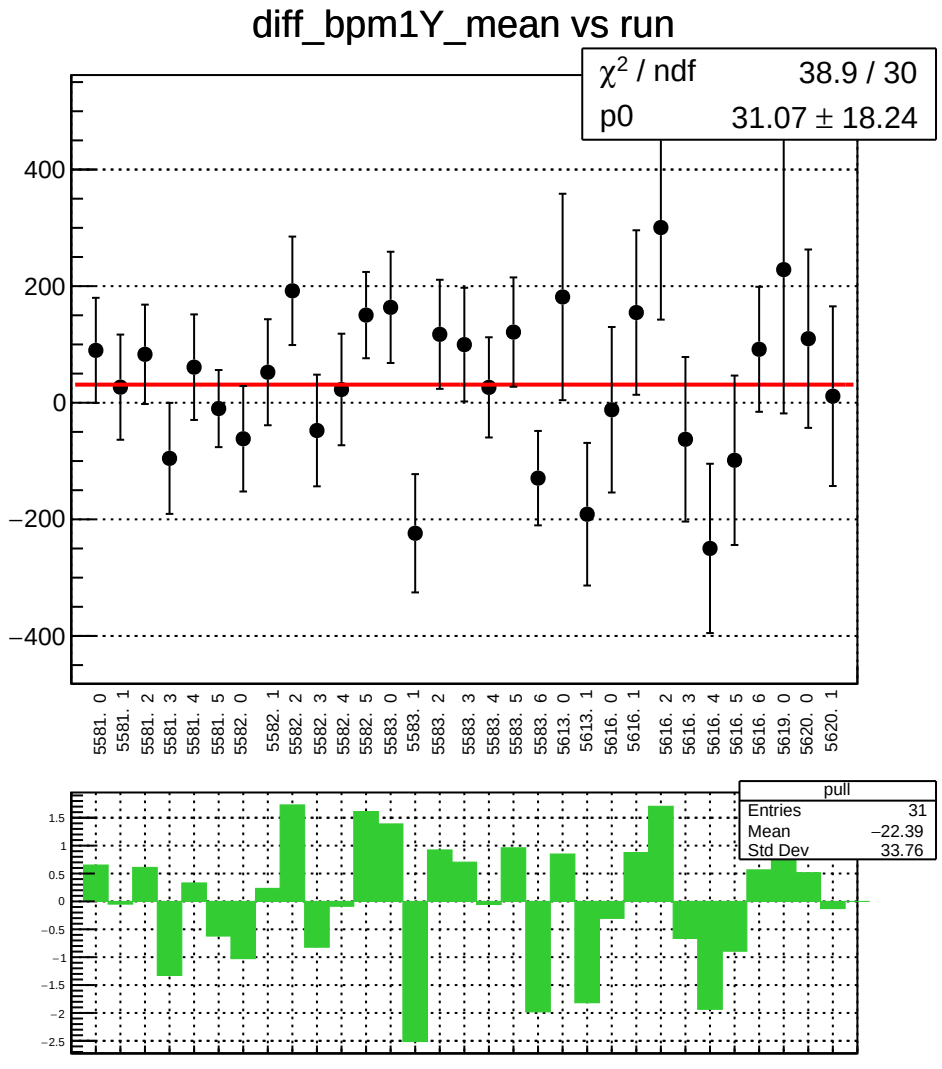

pull1D
Entries 31
Mean 0.00671
Std Dev 1.15
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

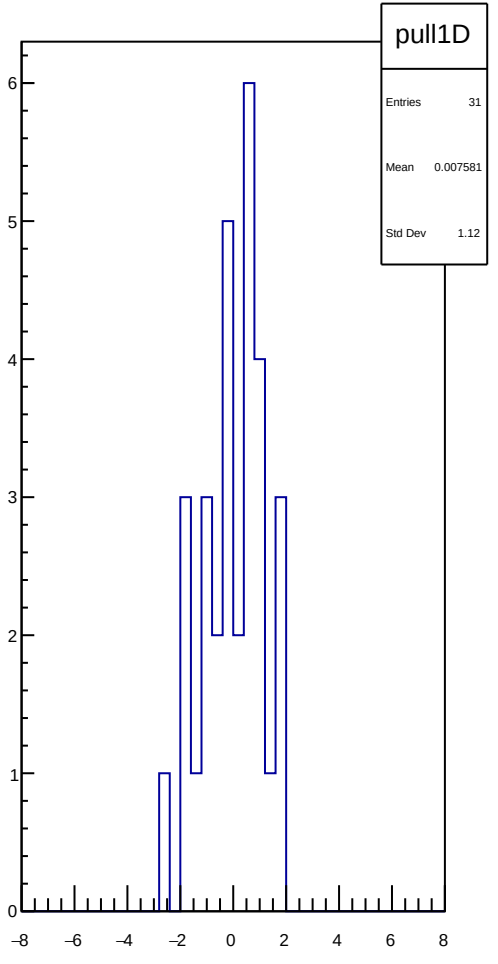

diff_bpm4ecY_rms vs run
χ² / ndf 2.932e+04 / 30
p0 5568 ± 7.328
9000
8000
7000
6000
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

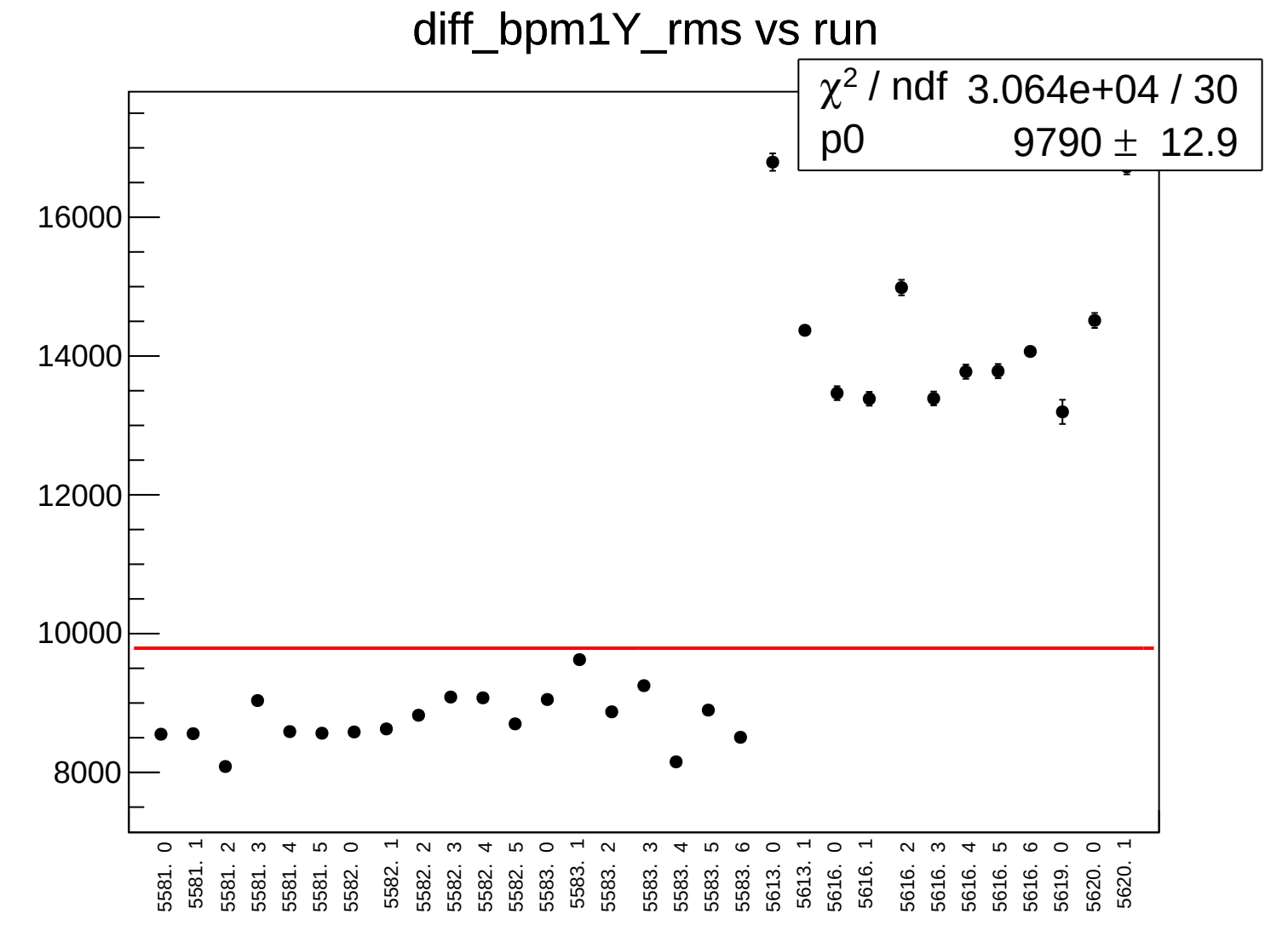

diff_bpm1X_mean vs run
χ² / ndf 37.52 / 30
p0 −27.62 ± 22.24
600
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 2.683
Std Dev 35.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

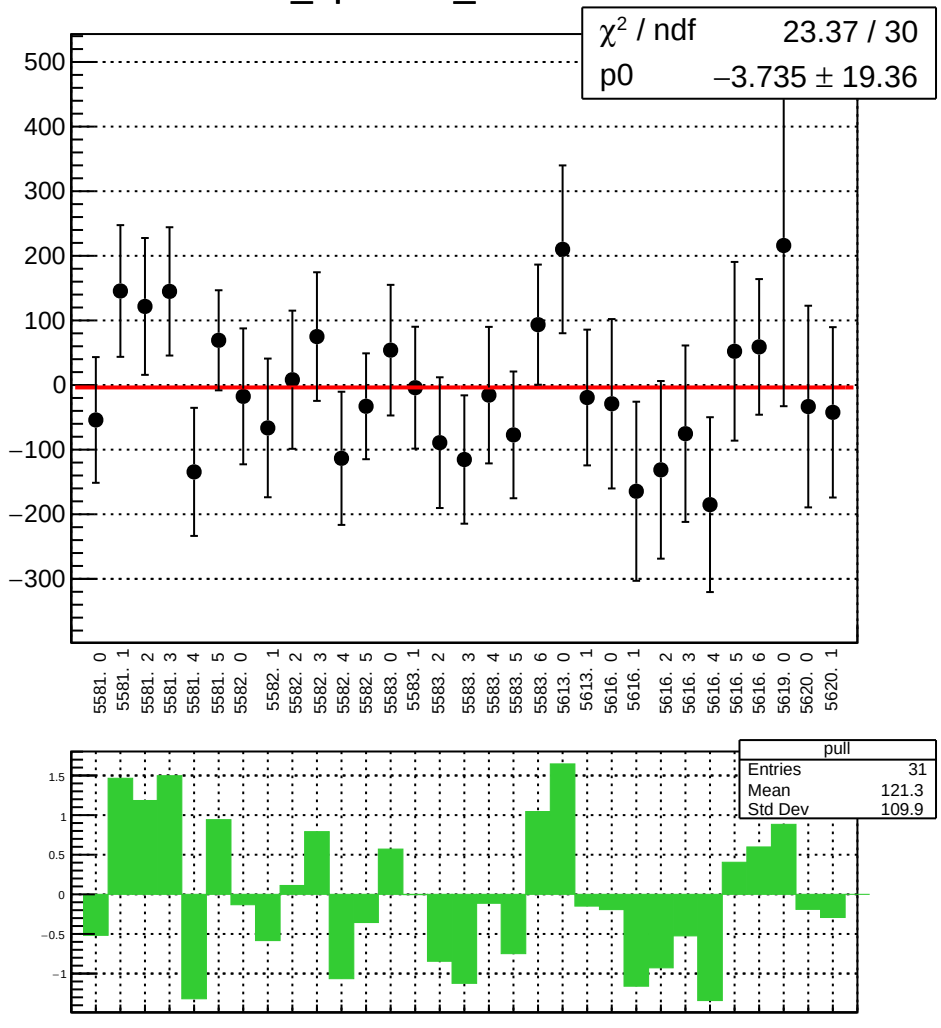

pull1D
Entries 31
Mean 0.02068
Std Dev 1.1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

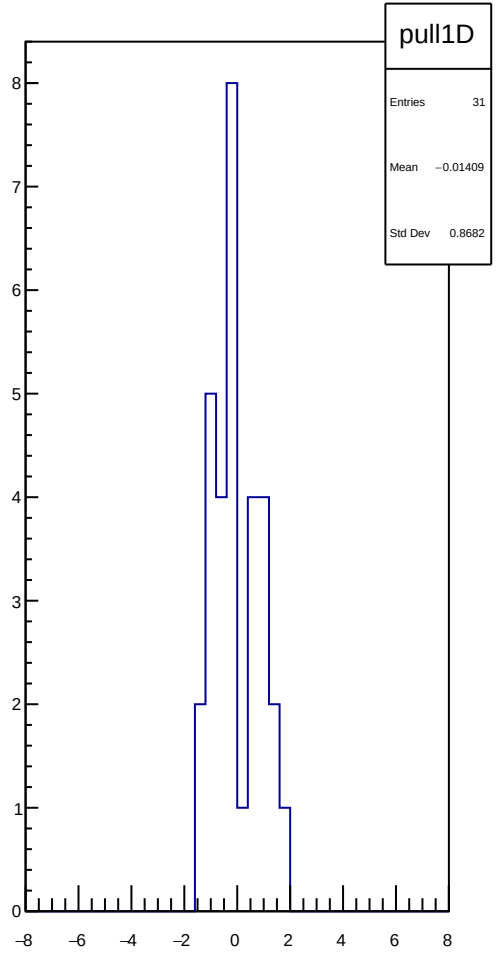

diff_bpm1X_rms vs run
χ² / ndf 3.522e+04 / 30
p0 1.189e+04 ± 15.73
20000
18000
16000
14000
12000
10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

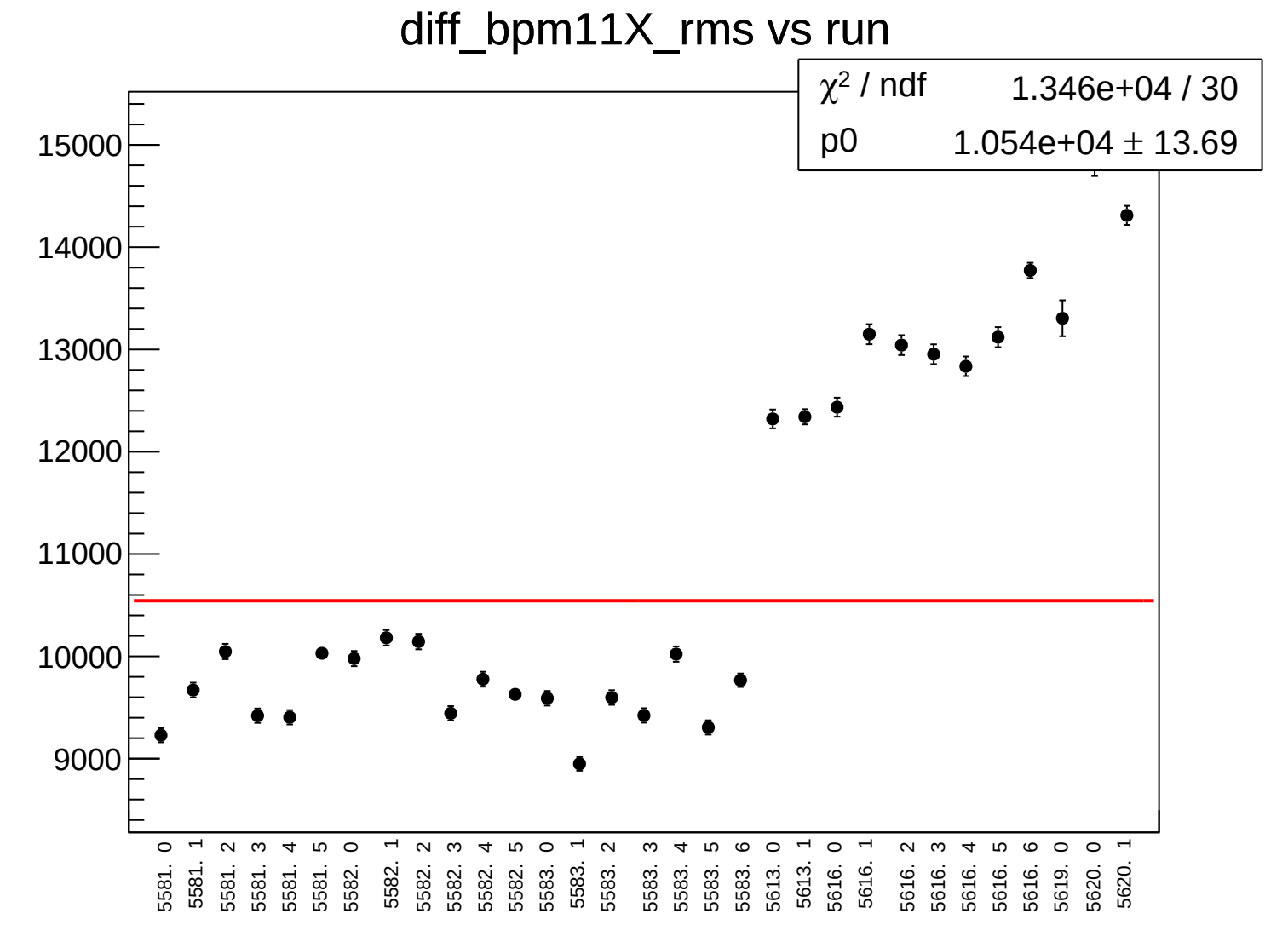

diff_bpm1Y_mean vs run
χ² / ndf 38.9 / 30
p0 31.07 ± 18.24
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −22.39
Std Dev 33.76
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

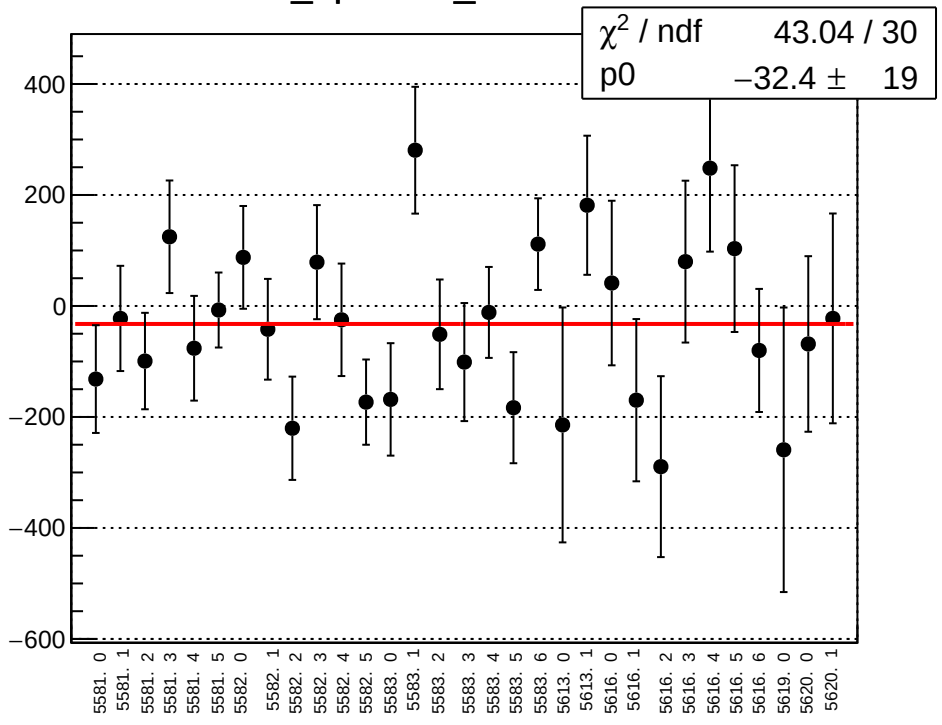

pull1D
Entries 31
Mean 0.007581
Std Dev 1.12
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

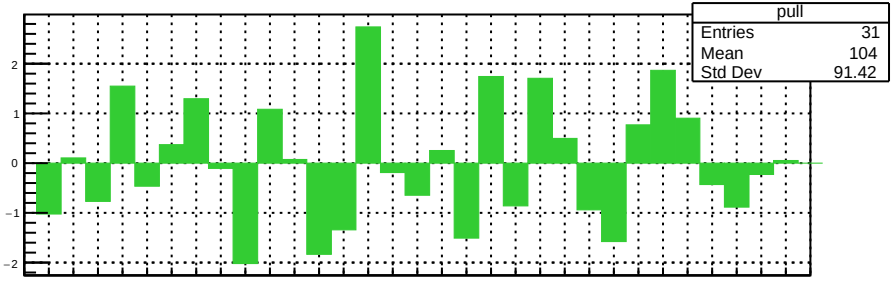

diff_bpm1Y_rms vs run
χ² / ndf 3.064e+04 / 30
p0 9790 ± 12.9
16000
14000
12000
10000
8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

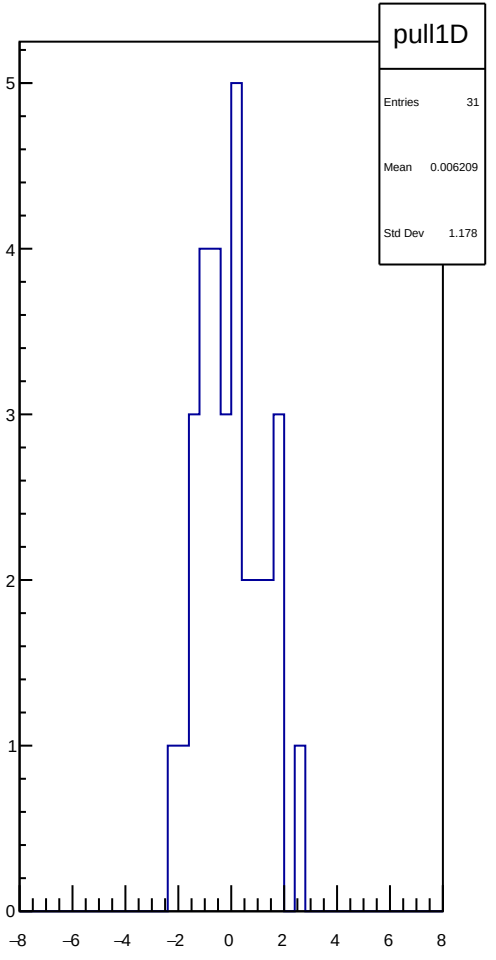

diff_bpm11X_mean vs run
χ² / ndf 23.37 / 30
p0 −3.735 ± 19.36
500
400
300
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 121.3
Std Dev 109.9
1.5
1
0.5
0
−0.5
−1

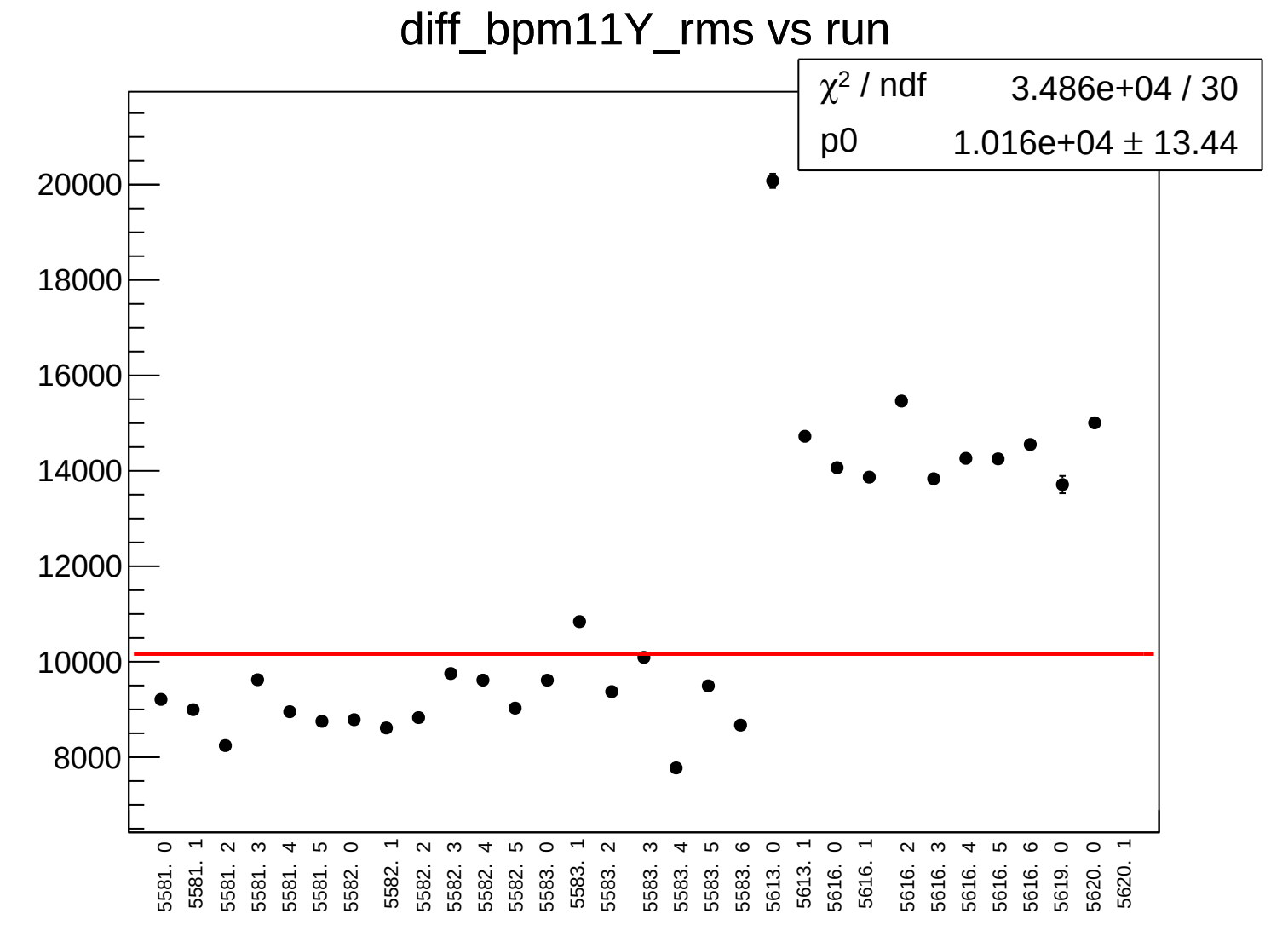

pull1D
Entries 31
Mean −0.01409
Std Dev 0.8682
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

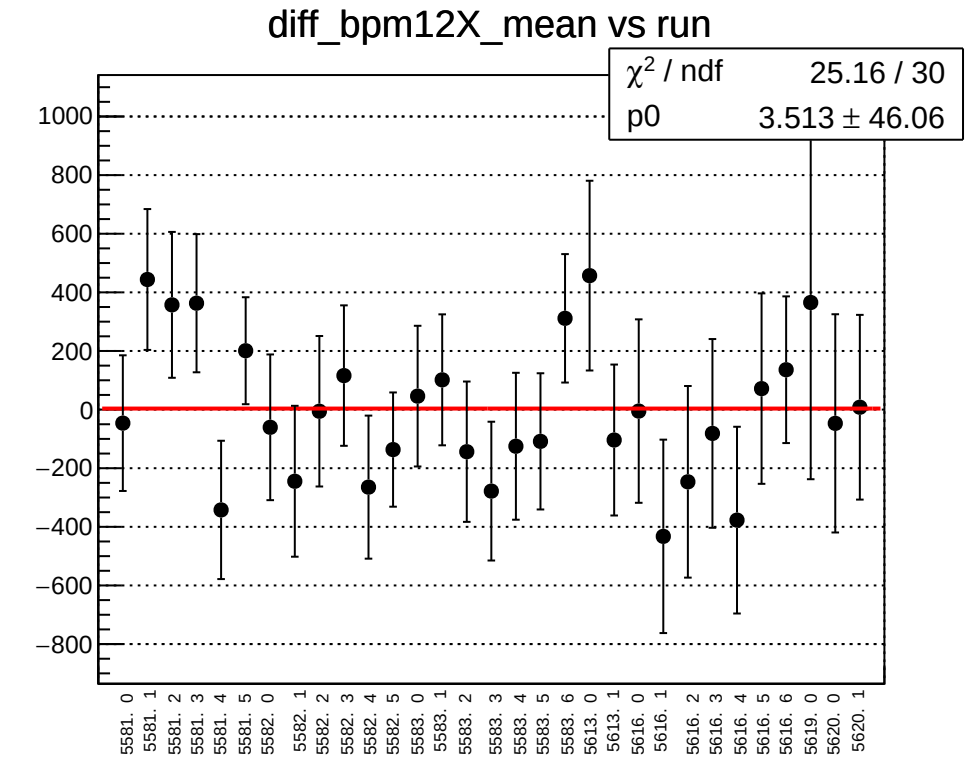

diff_bpm11X_rms vs run
χ² / ndf 1.346e+04 / 30
p0 1.054e+04 ± 13.69
15000
14000
13000
12000
11000
10000
9000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

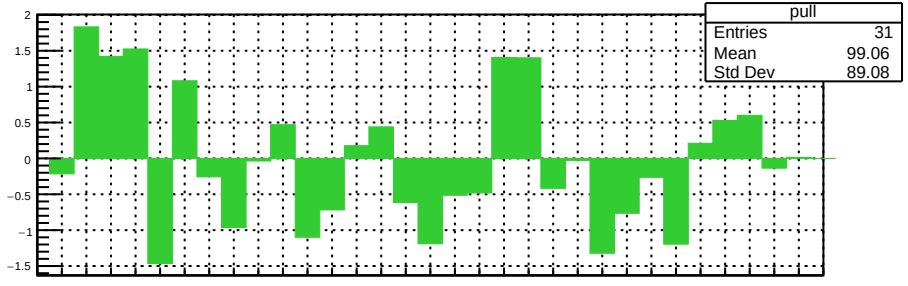

diff_bpm11Y_mean vs run
χ² / ndf 43.04 / 30
p0 −32.4 ± 19
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

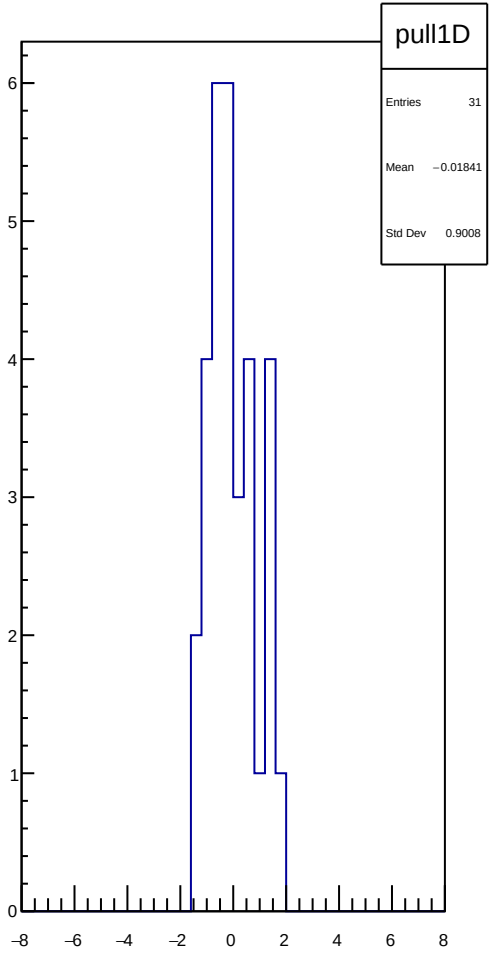

pull
Entries 31
Mean 104
Std Dev 91.42
2
1
0
−1
−2

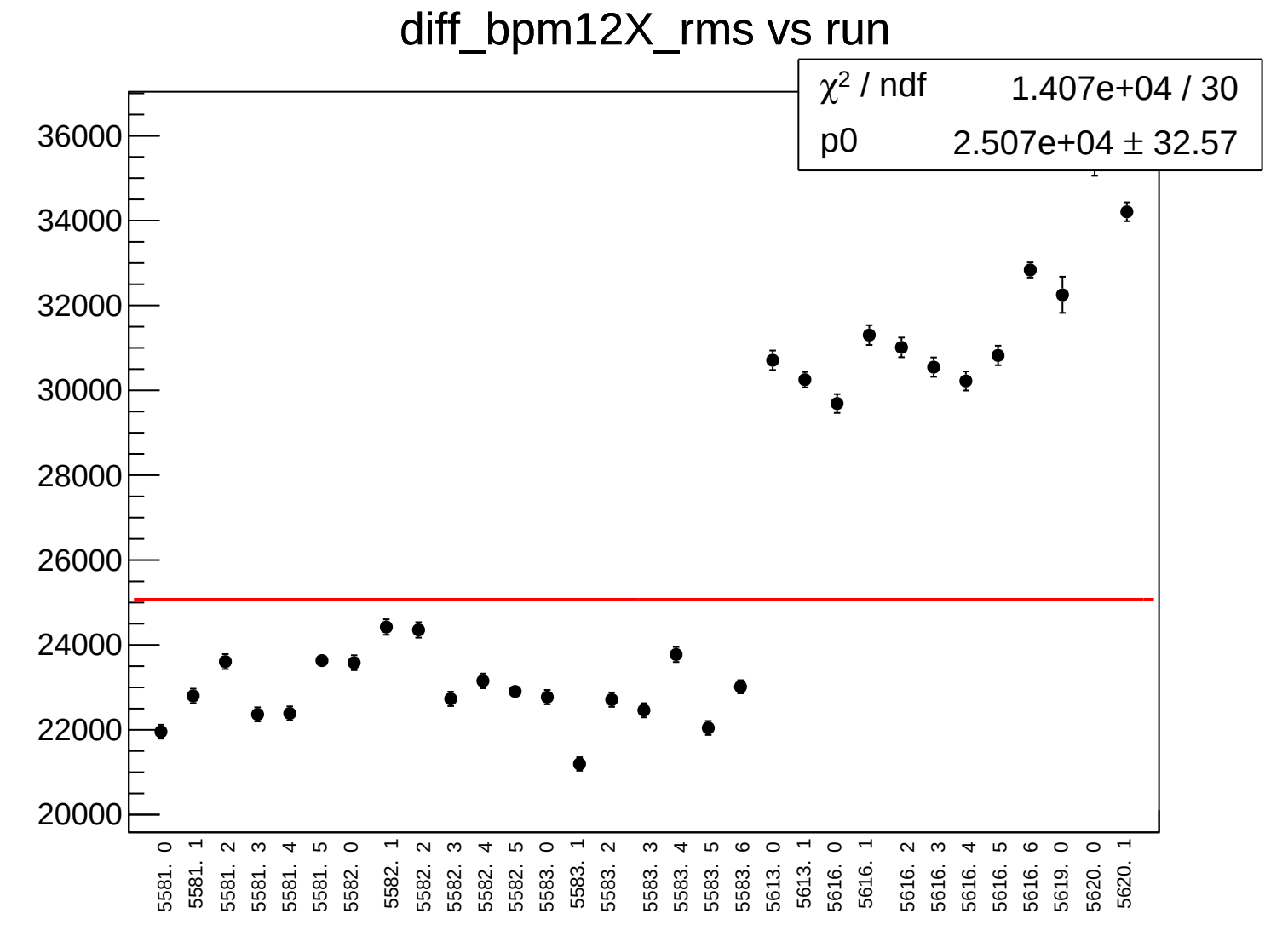

pull1D
Entries 31
Mean 0.006209
Std Dev 1.178
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

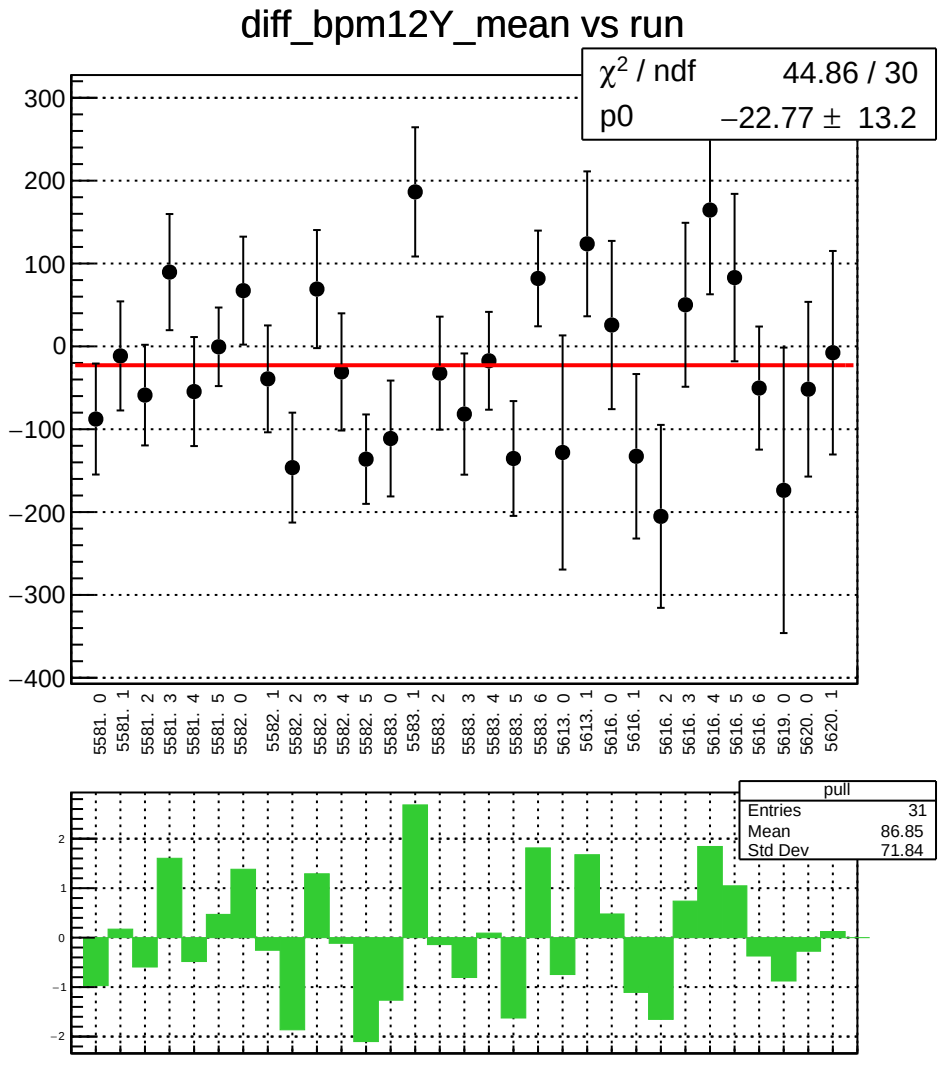

diff_bpm11Y_rms vs run
χ² / ndf 3.486e+04 / 30
p0 1.016e+04 ± 13.44
20000
18000
16000
14000
12000
10000
8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

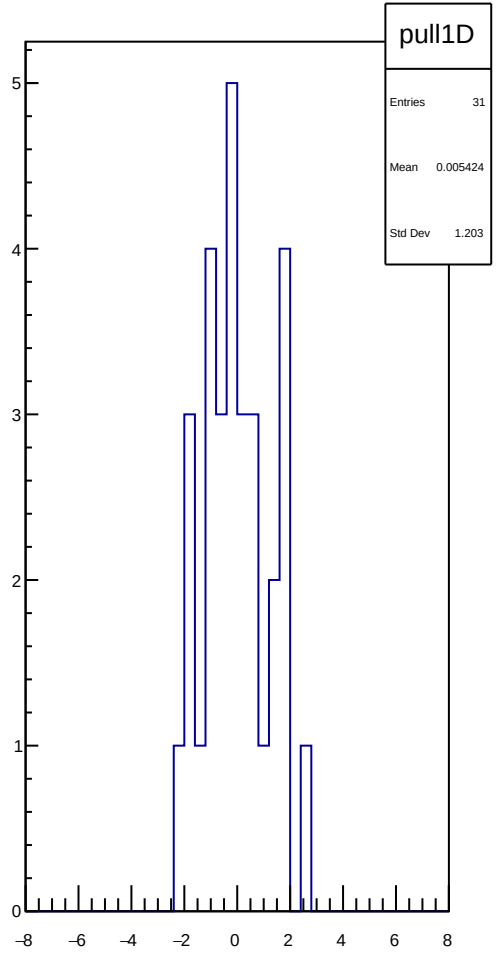

diff_bpm12X_mean vs run
χ² / ndf 25.16 / 30
p0 3.513 ± 46.06
1000
800
600
400
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

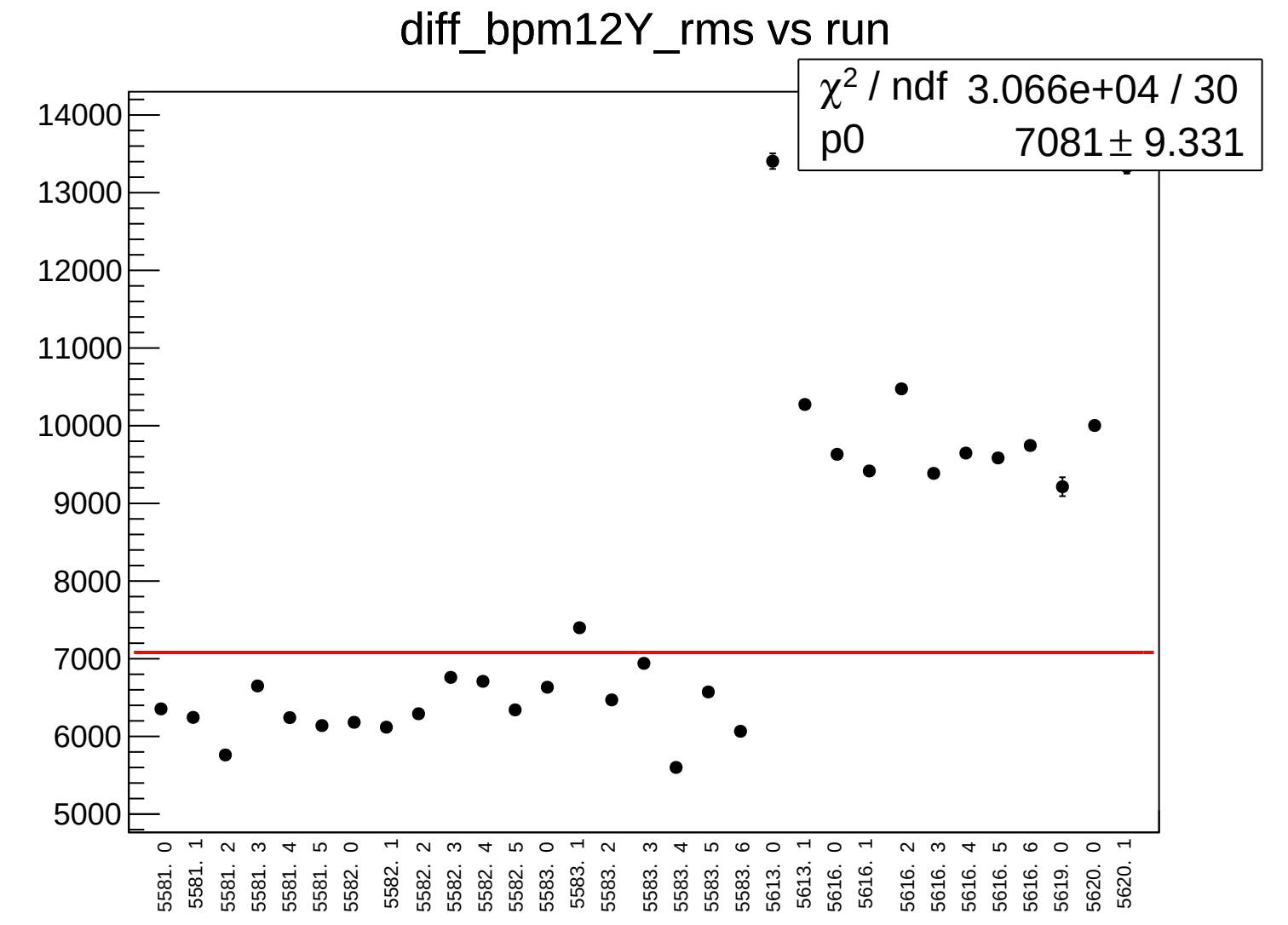

pull
Entries 31
Mean 99.06
Std Dev 89.08
2
1.5
1
0.5
0
−0.5
−1
−1.5

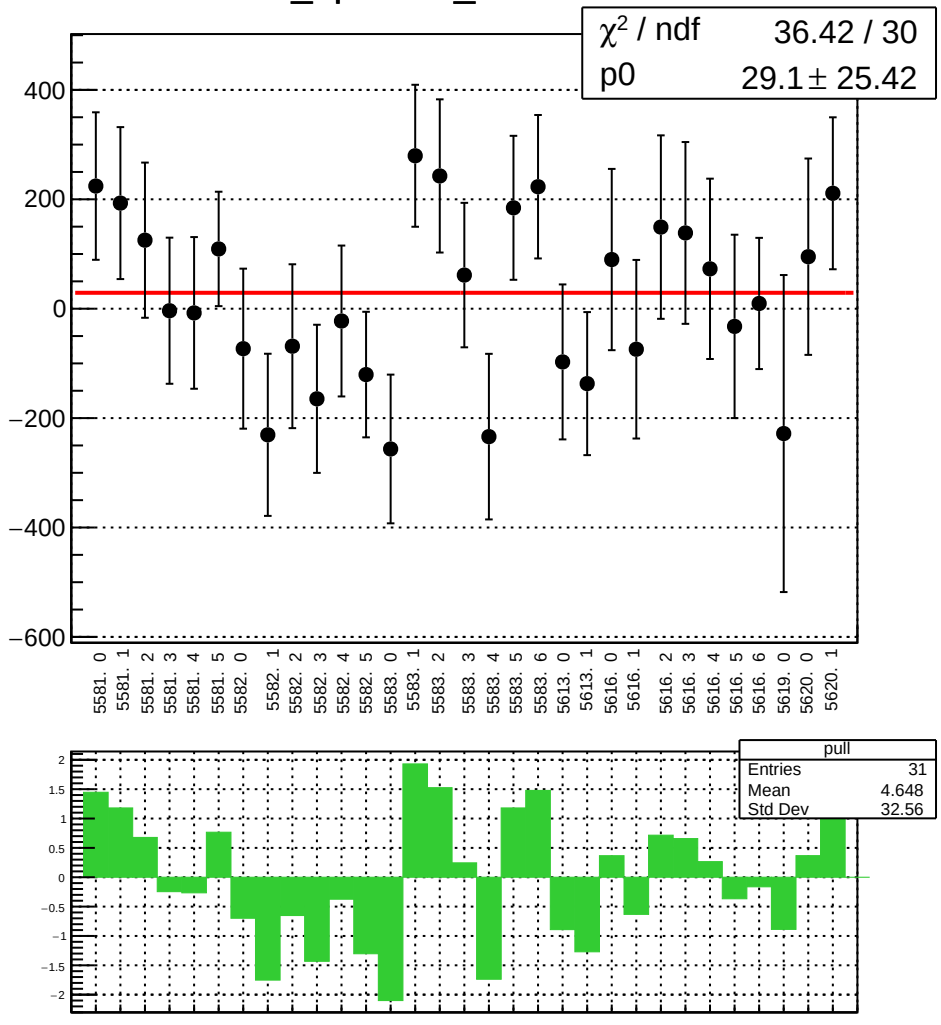

pull1D
Entries 31
Mean −0.01841
Std Dev 0.9008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

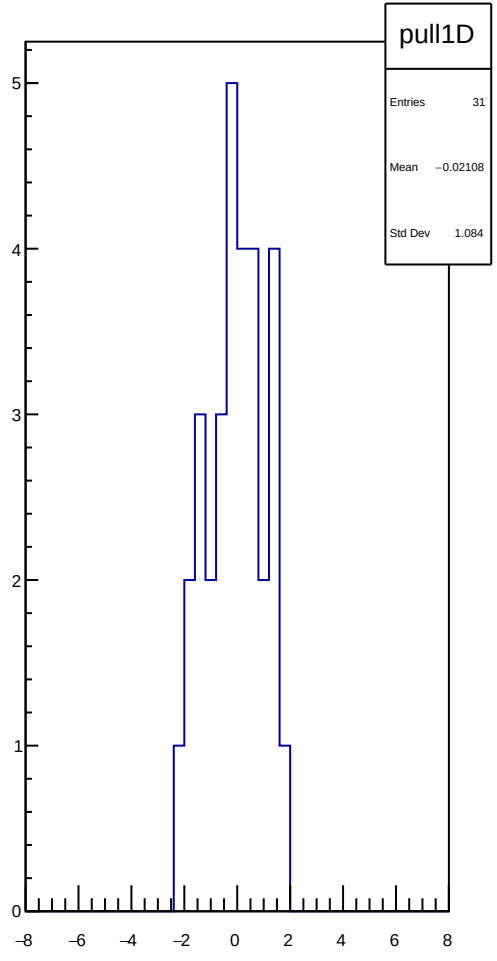

diff_bpm12X_rms vs run
χ² / ndf 1.407e+04 / 30
p0 2.507e+04 ± 32.57
36000
34000
32000
30000
28000
26000
24000
22000
20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

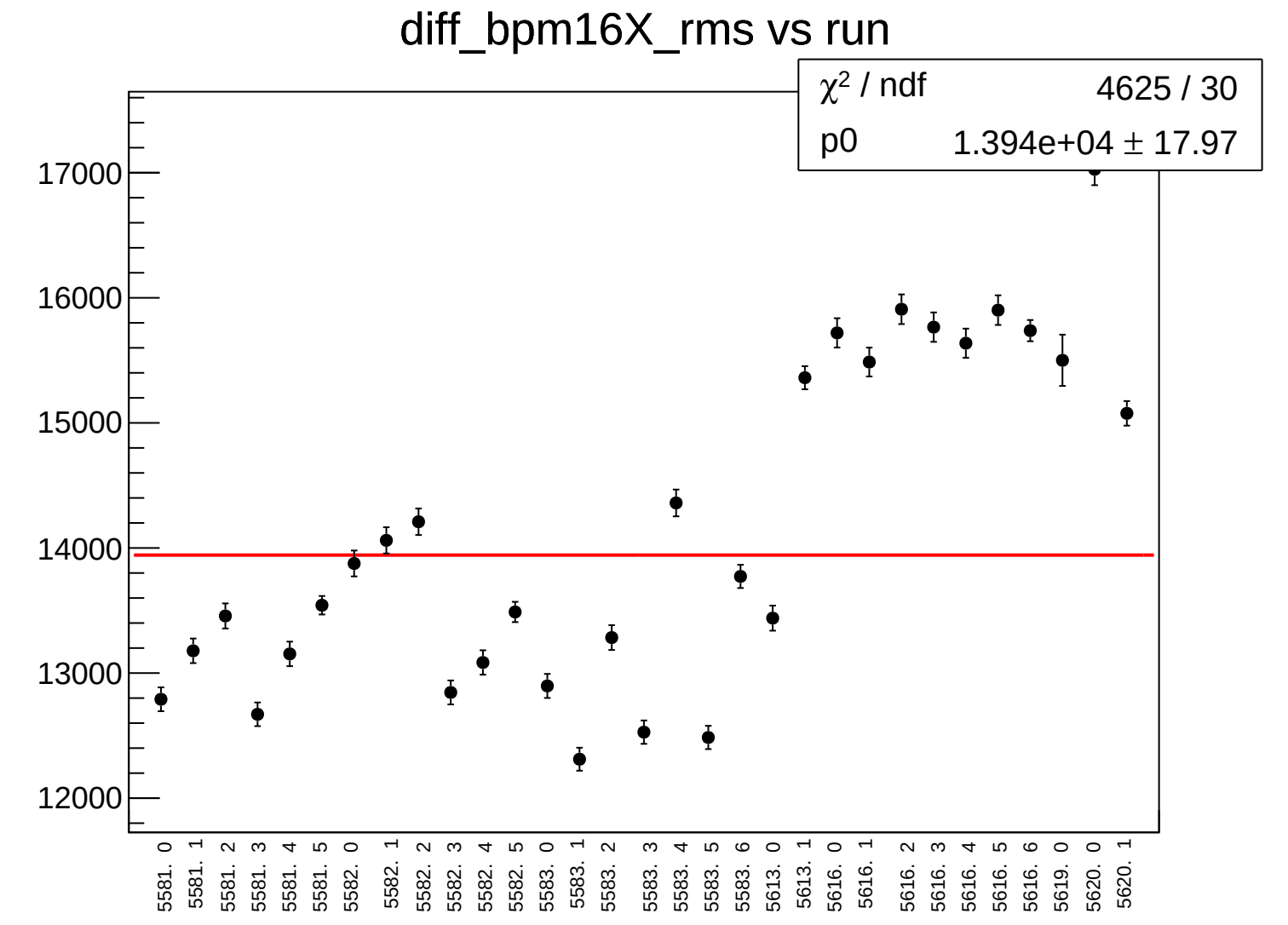

diff_bpm12Y_mean vs run
χ² / ndf 44.86 / 30
p0 −22.77 ± 13.2
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 86.85
Std Dev 71.84
2
1
0
−1
−2

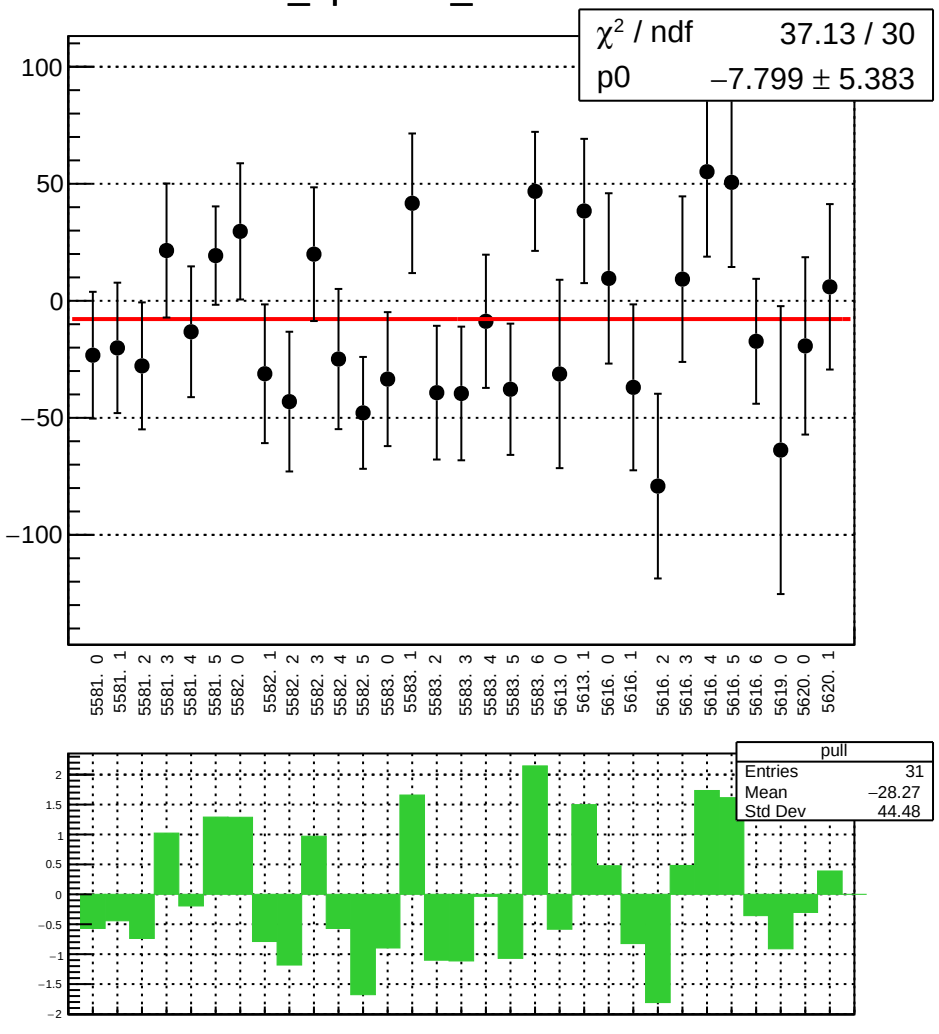

pull1D
Entries 31
Mean 0.005424
Std Dev 1.203
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

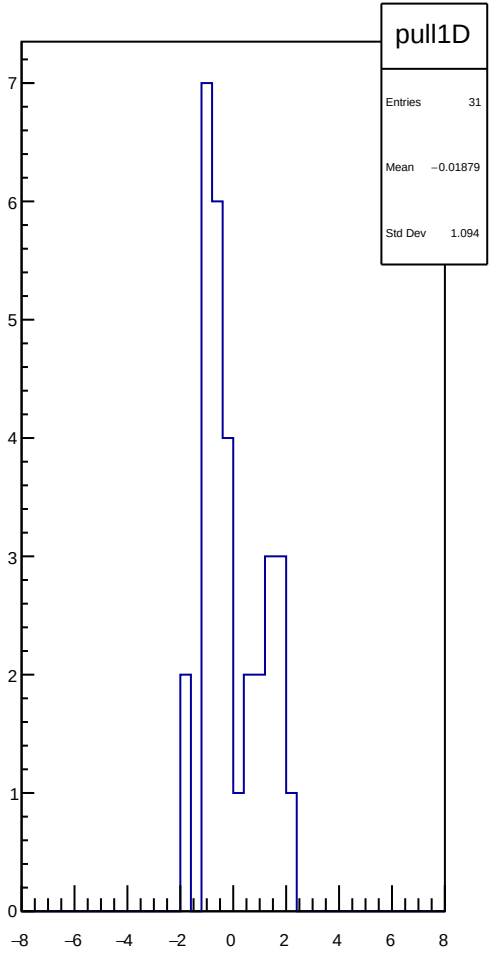

diff_bpm12Y_rms vs run
χ² / ndf 3.066e+04 / 30
p0 7081 ± 9.331
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

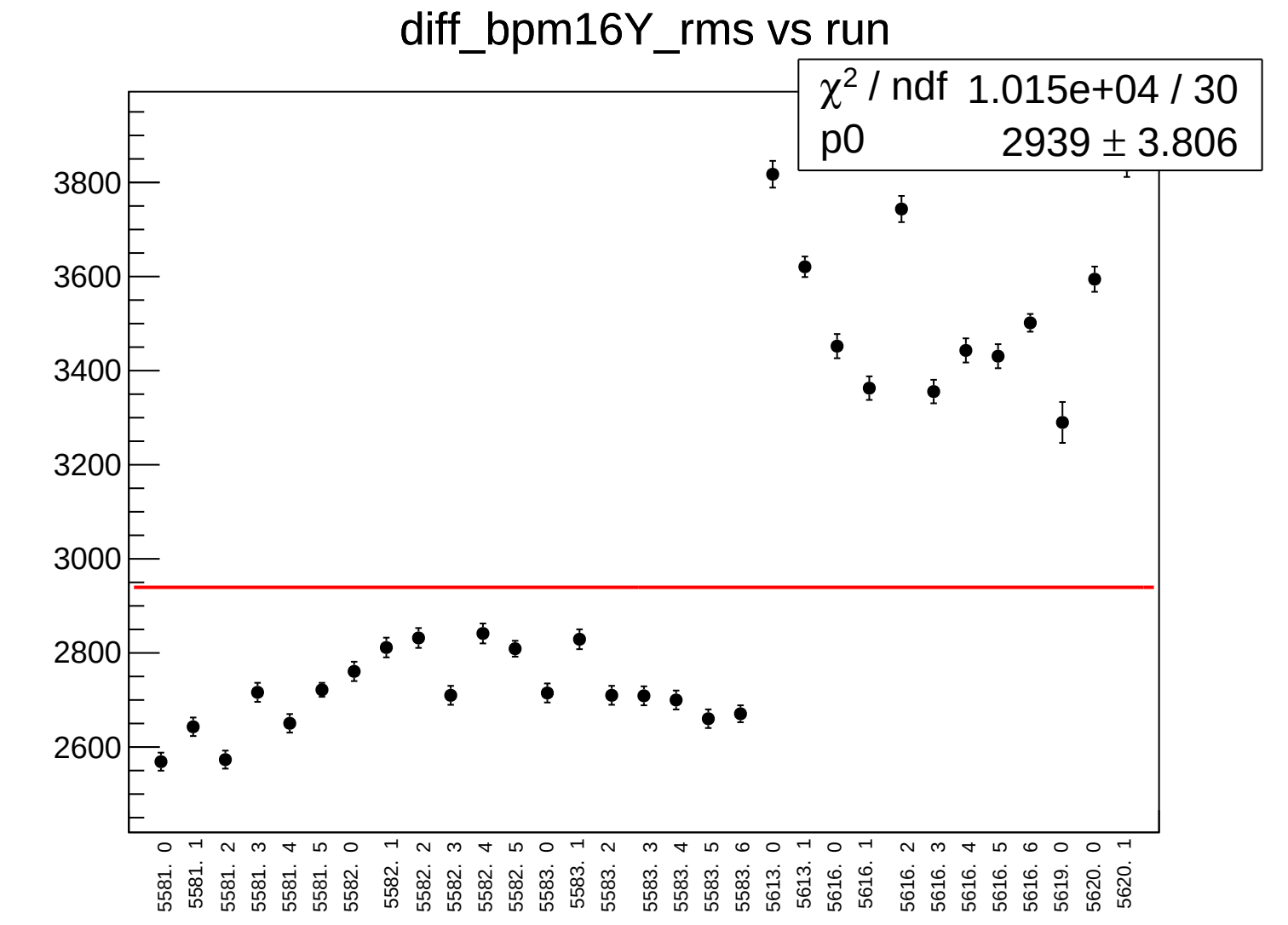

diff_bpm16X_mean vs run
χ² / ndf 36.42 / 30
p0 29.1 ± 25.42
pull
Entries 31
Mean 4.648
Std Dev 32.56

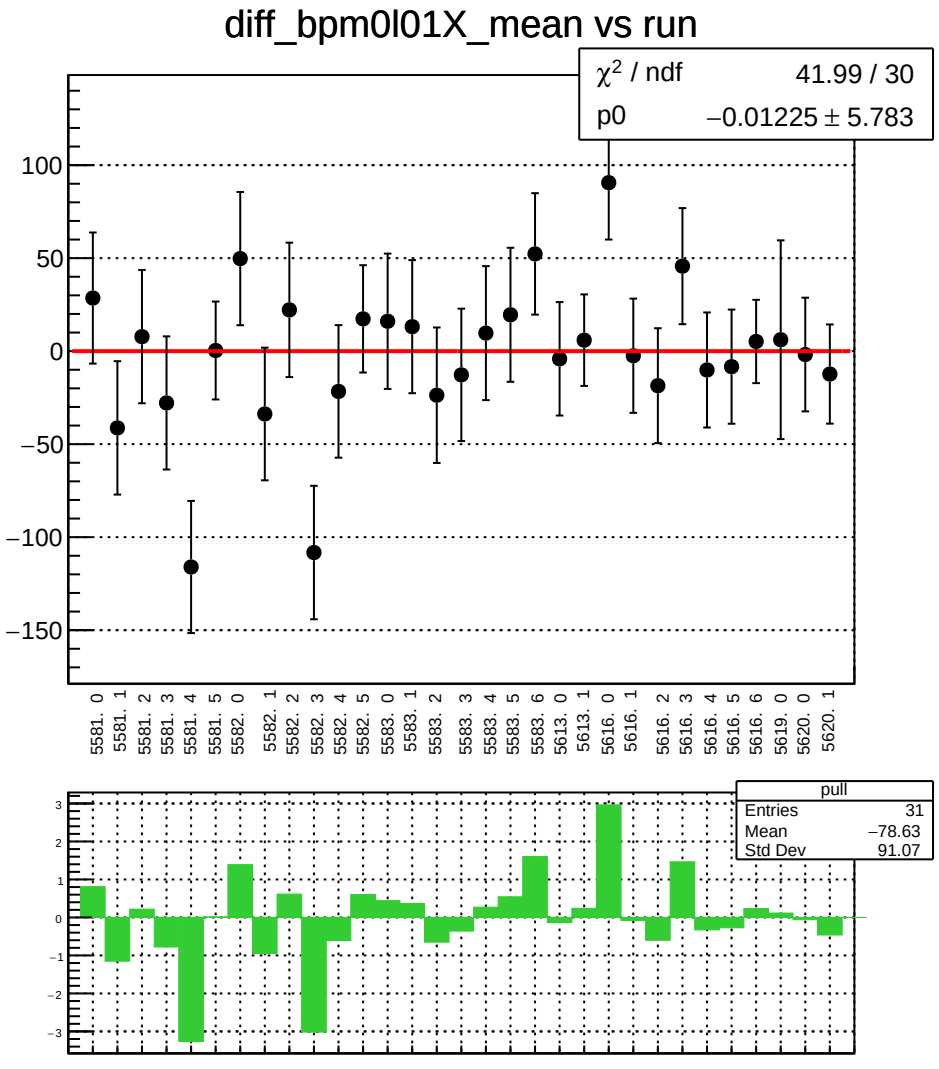

pull1D
Entries 31
Mean −0.02108
Std Dev 1.084

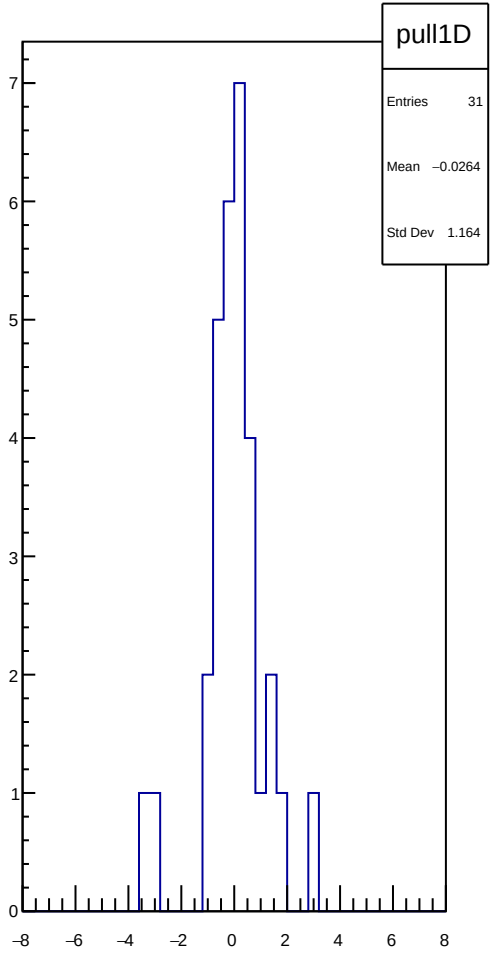

diff_bpm16X_rms vs run
χ² / ndf 4625 / 30
p0 1.394e+04 ± 17.97
17000
16000
15000
14000
13000
12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

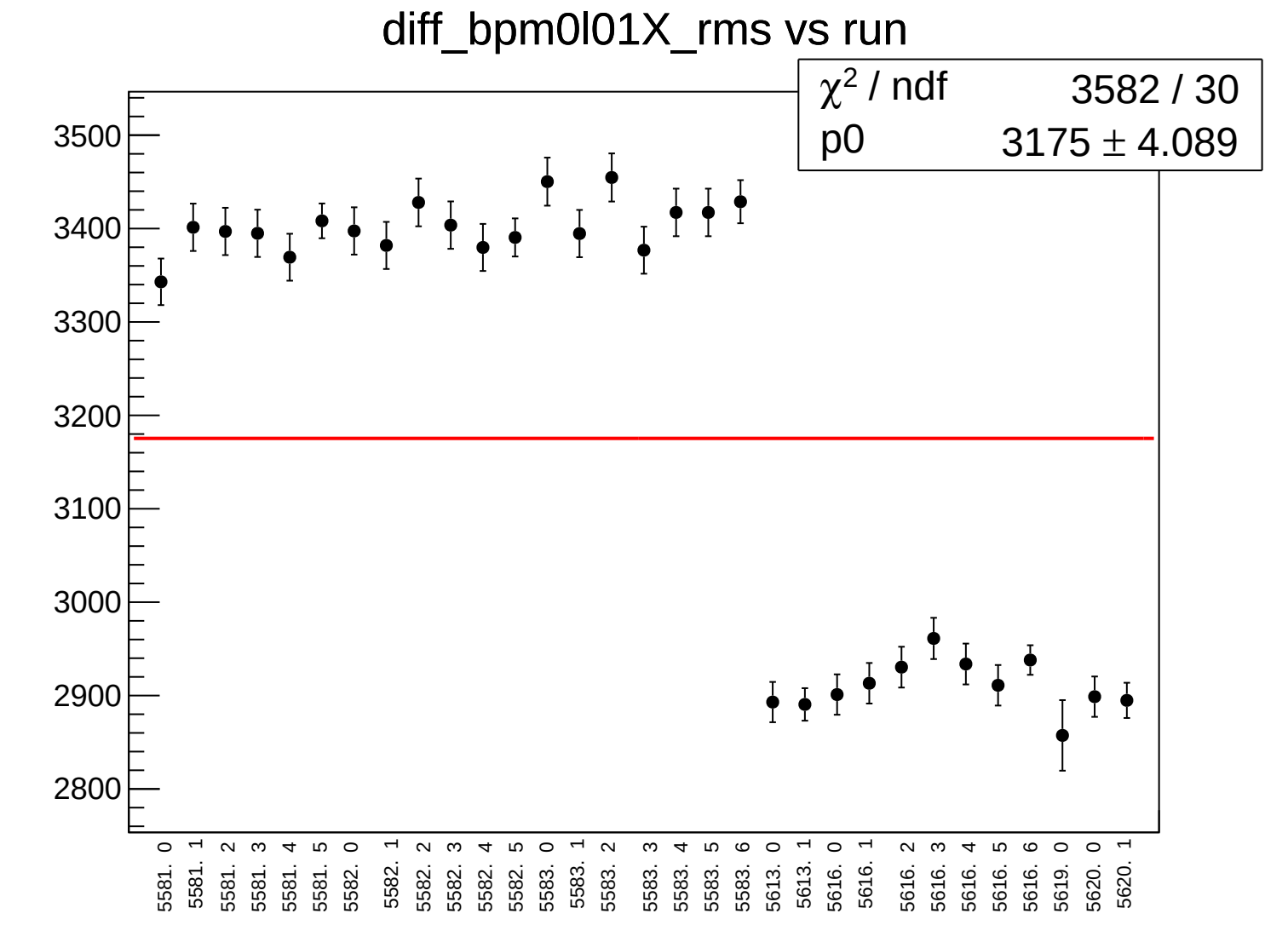

diff_bpm16Y_mean vs run
χ^2 / ndf 37.13 / 30
p0 −7.799 ± 5.383
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −28.27
Std Dev 44.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

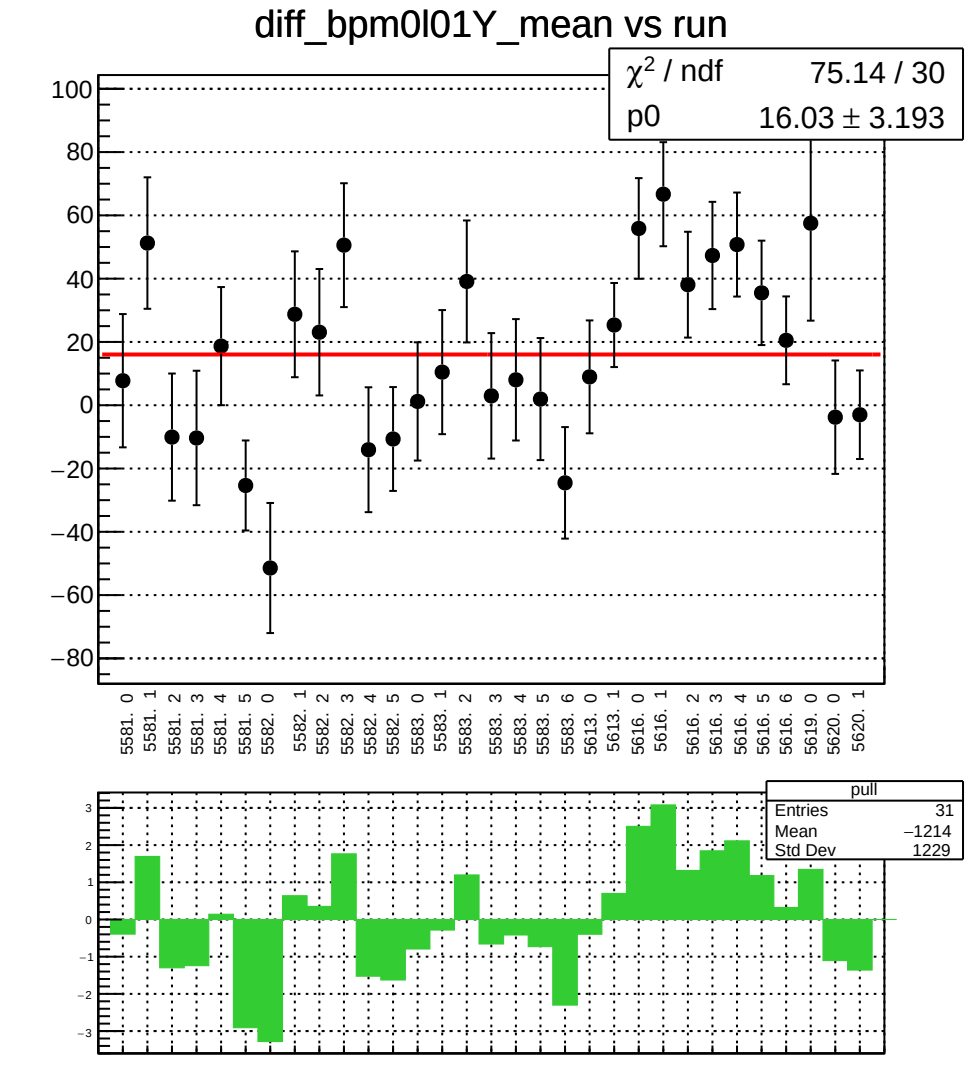

pull1D
Entries 31
Mean −0.01879
Std Dev 1.094
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

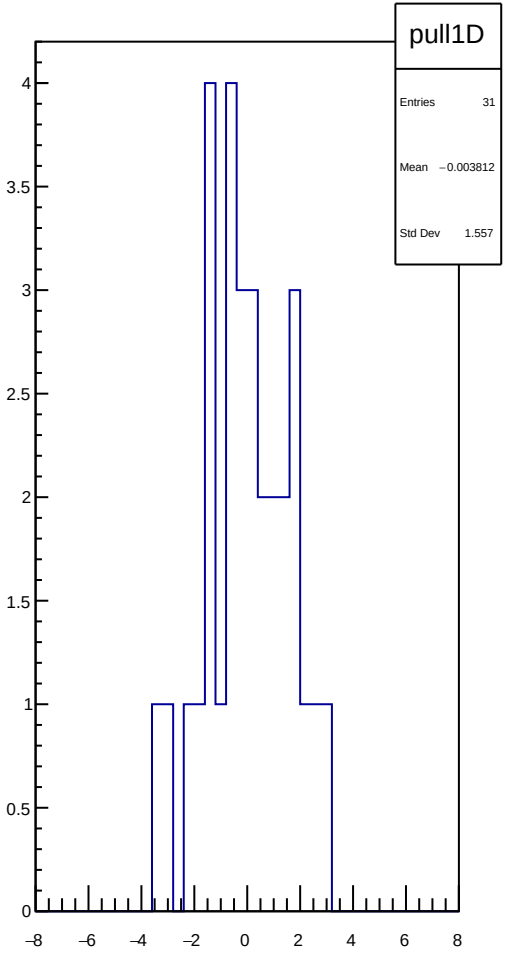

diff_bpm16Y_rms vs run
χ² / ndf 1.015e+04 / 30
p0 2939 ± 3.806
3800
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

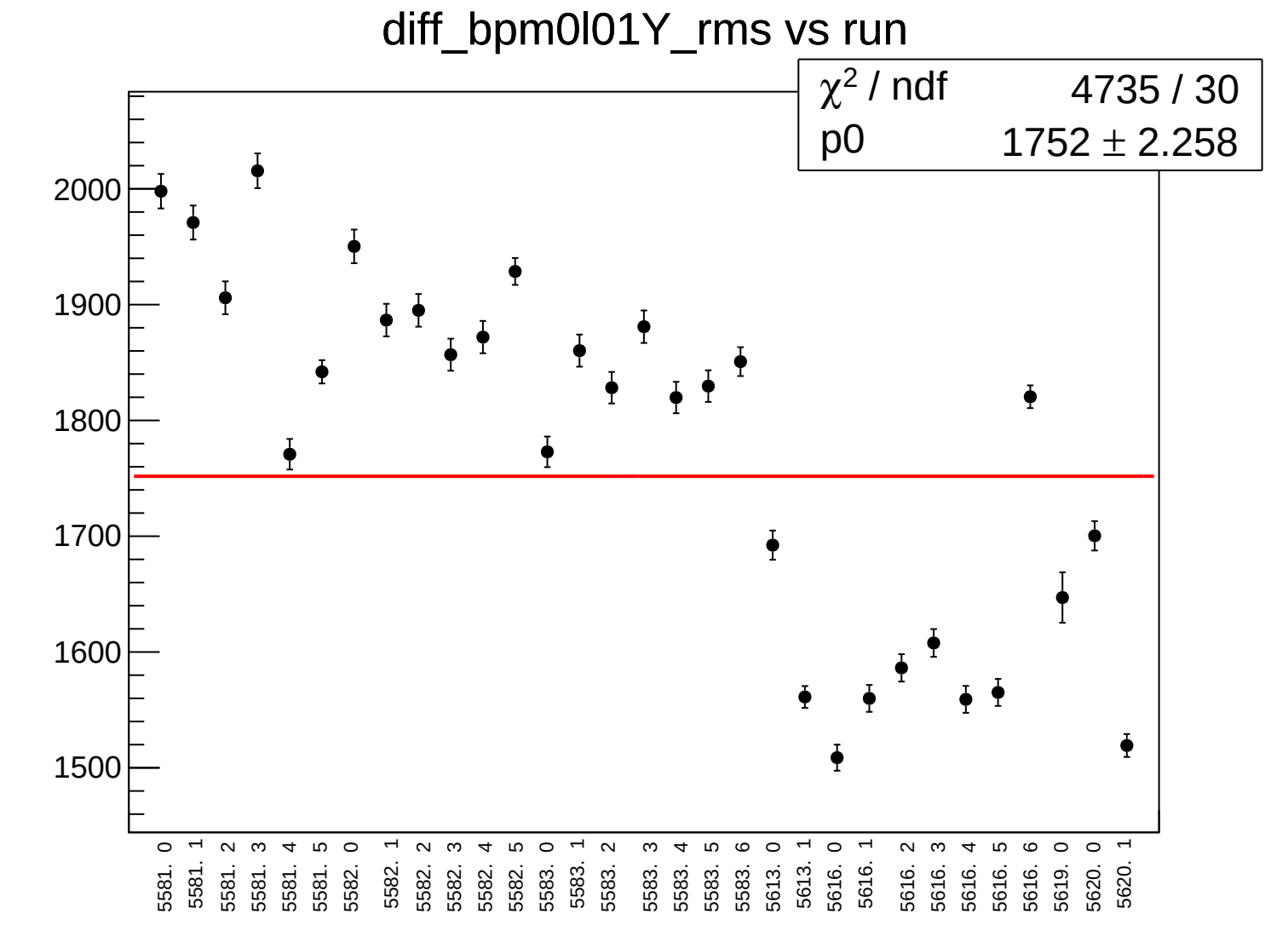

diff_bpm0l01X_mean vs run
χ² / ndf 41.99 / 30
p0 −0.01225 ± 5.783
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −78.63
Std Dev 91.07
3
2
1
0
−1
−2
−3

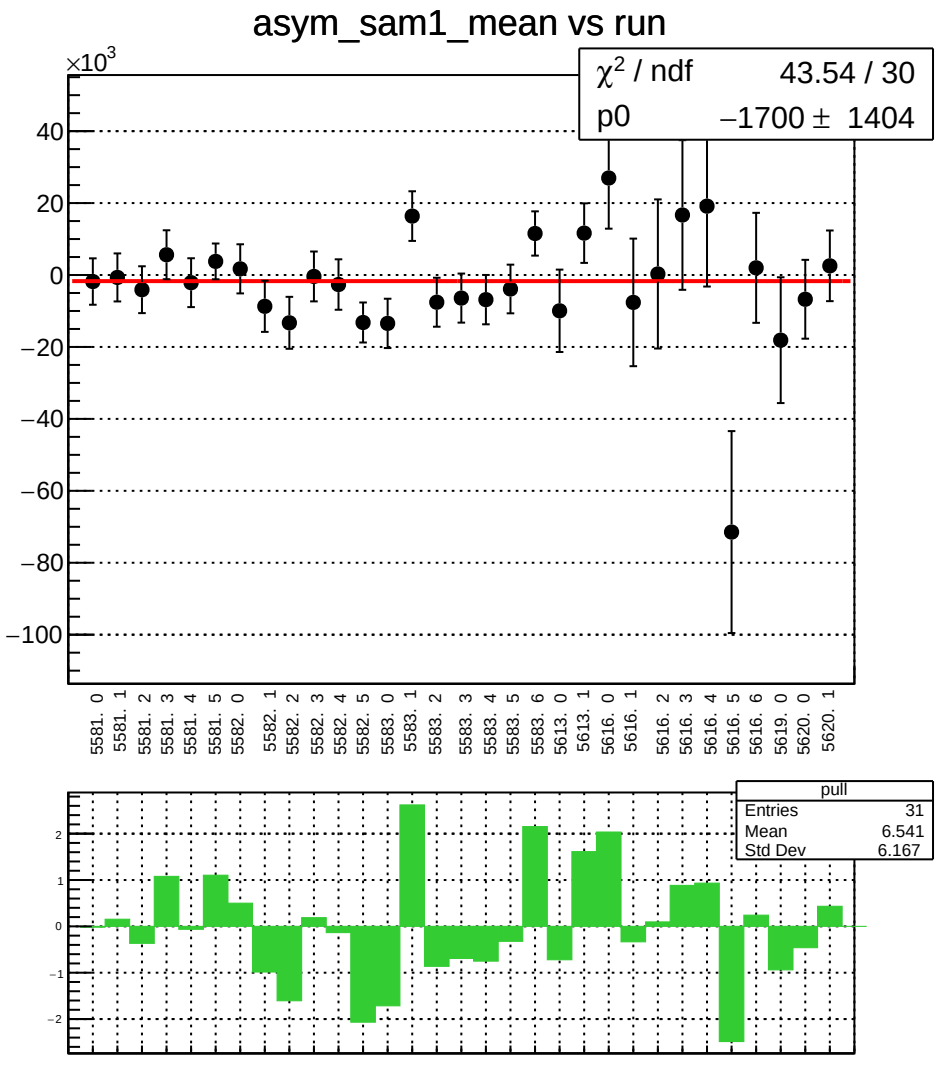

pull1D
Entries 31
Mean −0.0264
Std Dev 1.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

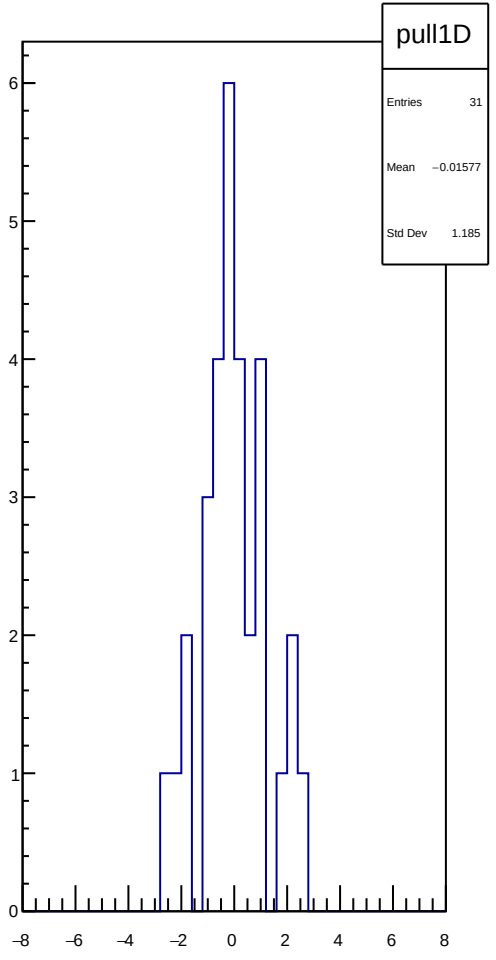

diff_bpm0l01X_rms vs run
χ² / ndf 3582 / 30
p0 3175 ± 4.089
3500
3400
3300
3200
3100
3000
2900
2800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

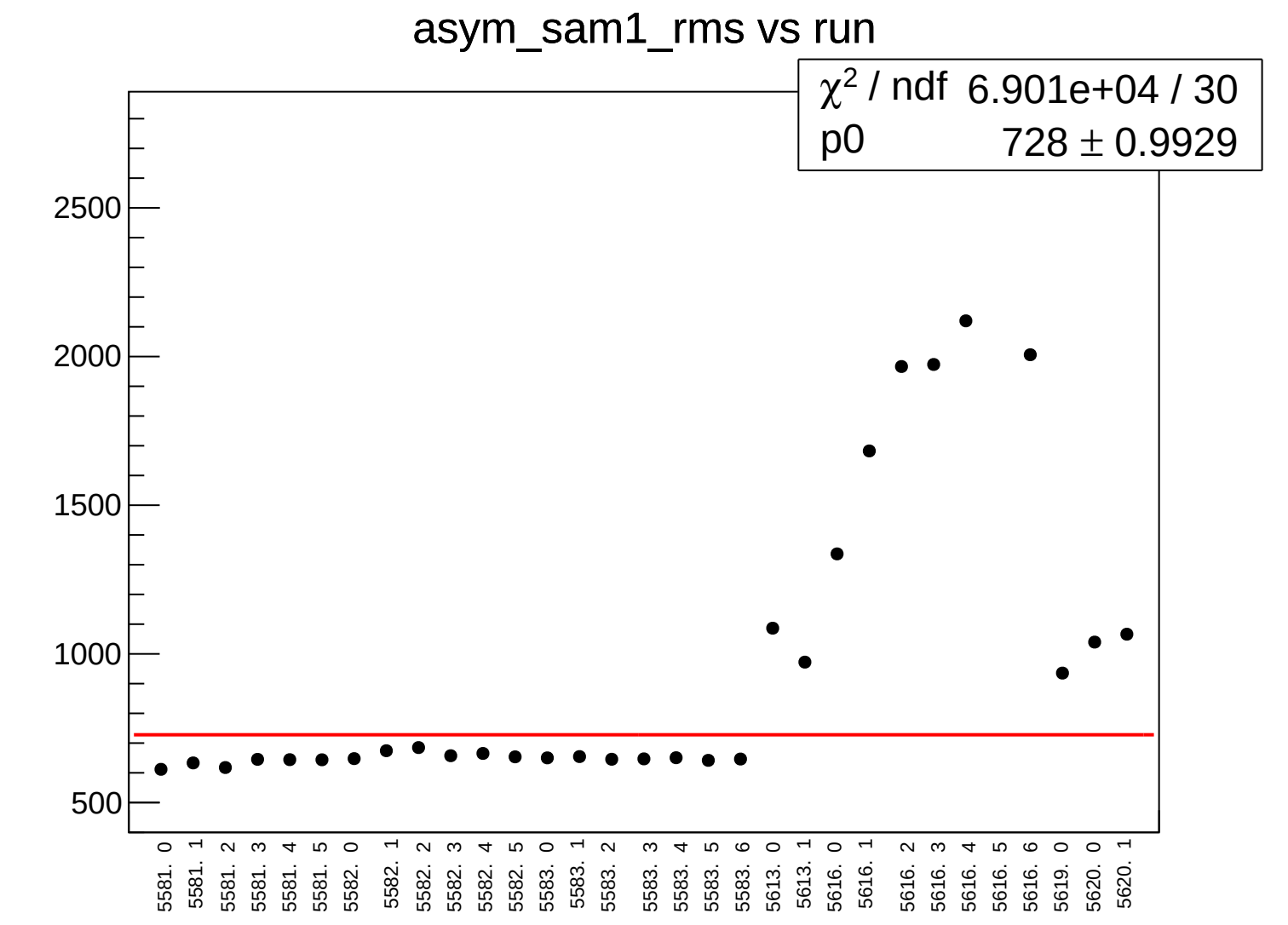

diff_bpm0l01Y_mean vs run
χ² / ndf 75.14 / 30
p0 16.03 ± 3.193
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −1214
Std Dev 1229
3
2
1
0
−1
−2
−3

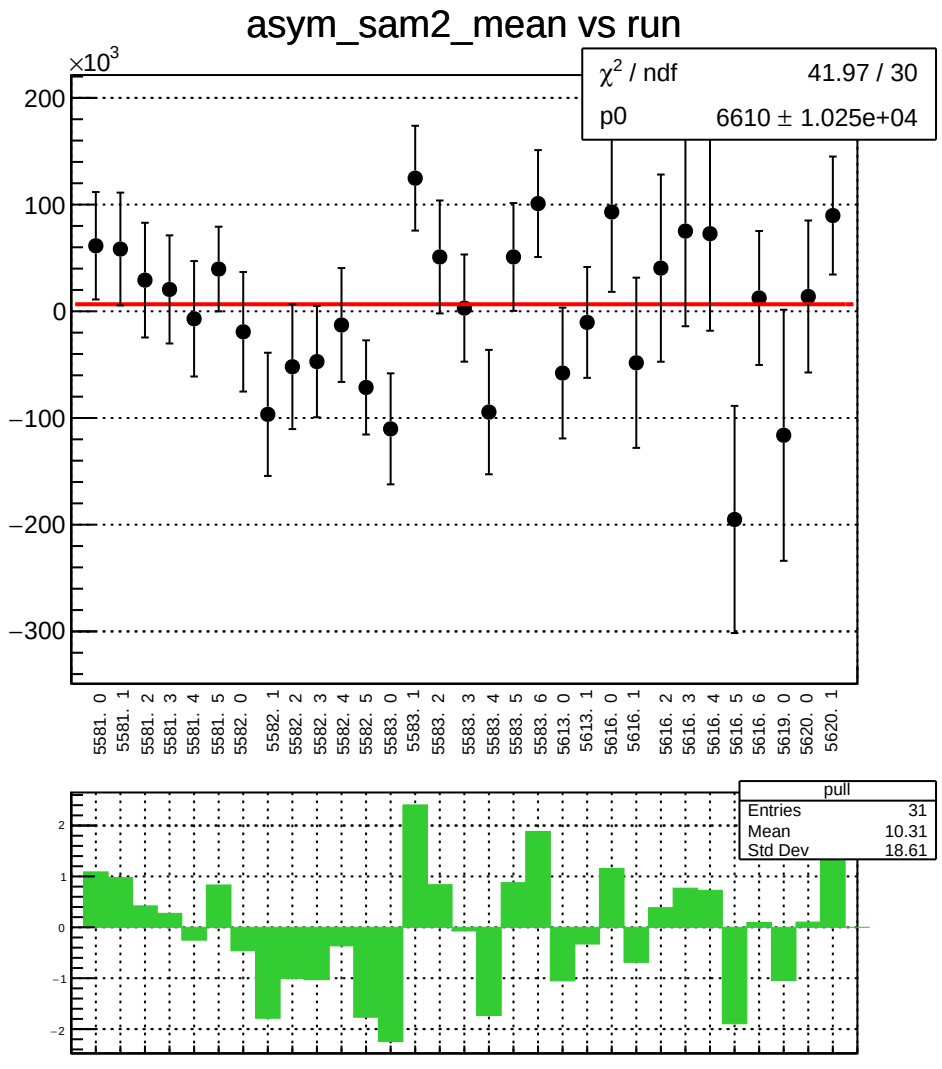

pull1D
Entries 31
Mean −0.003812
Std Dev 1.557
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

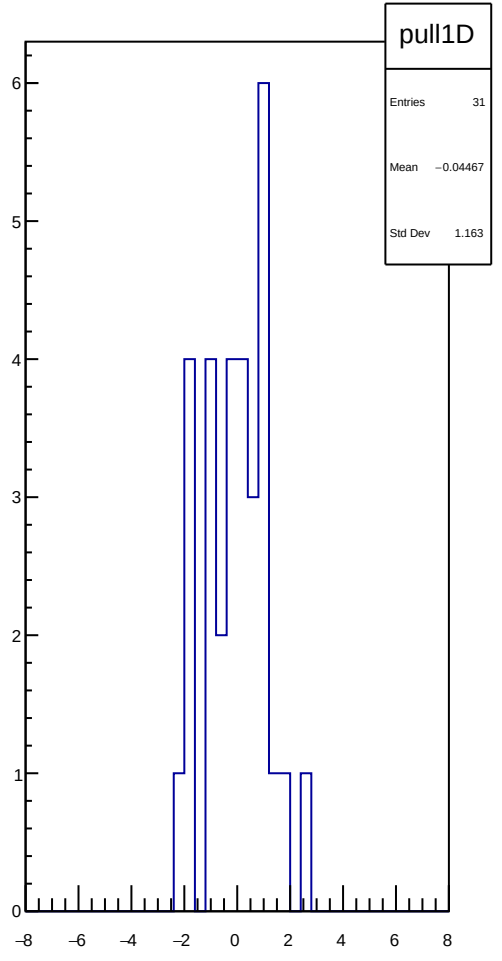

diff_bpm0l01Y_rms vs run
χ² / ndf 4735 / 30
p0 1752 ± 2.258
2000
1900
1800
1700
1600
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

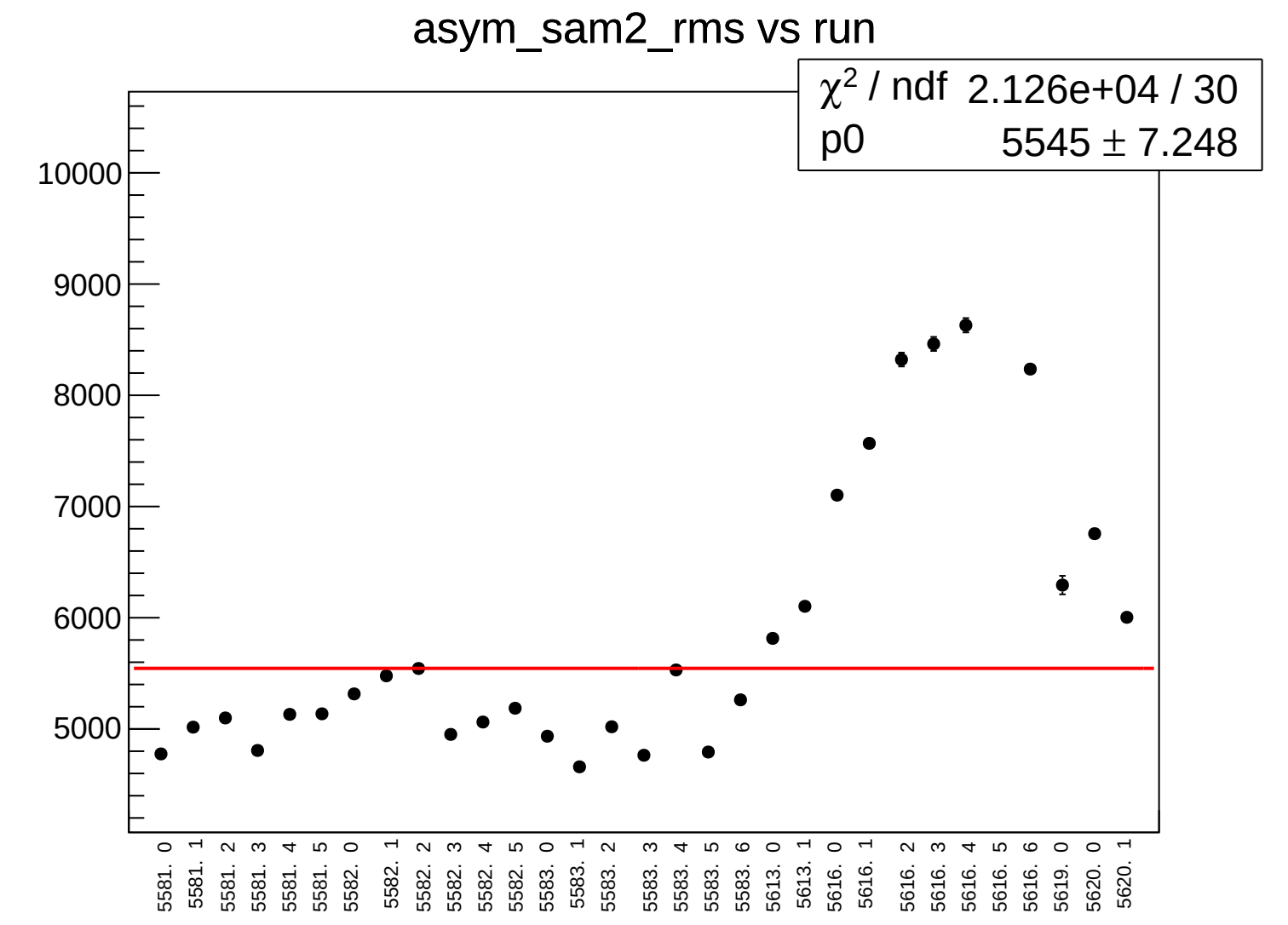

asym_sam1_mean vs run
×10^3
χ^2 / ndf 43.54 / 30
p0 −1700 ± 1404
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 6.541
Std Dev 6.167
2
1
0
−1
−2

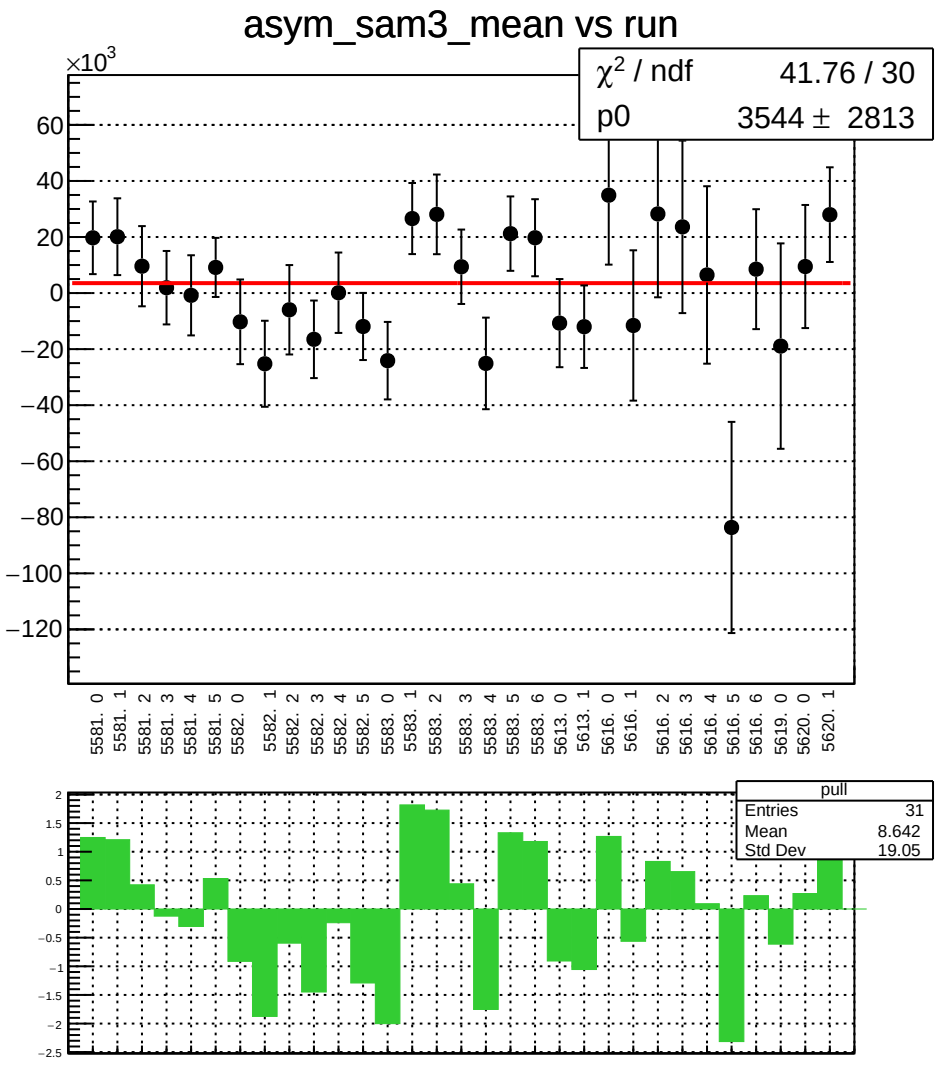

pull1D
Entries 31
Mean −0.01577
Std Dev 1.185
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

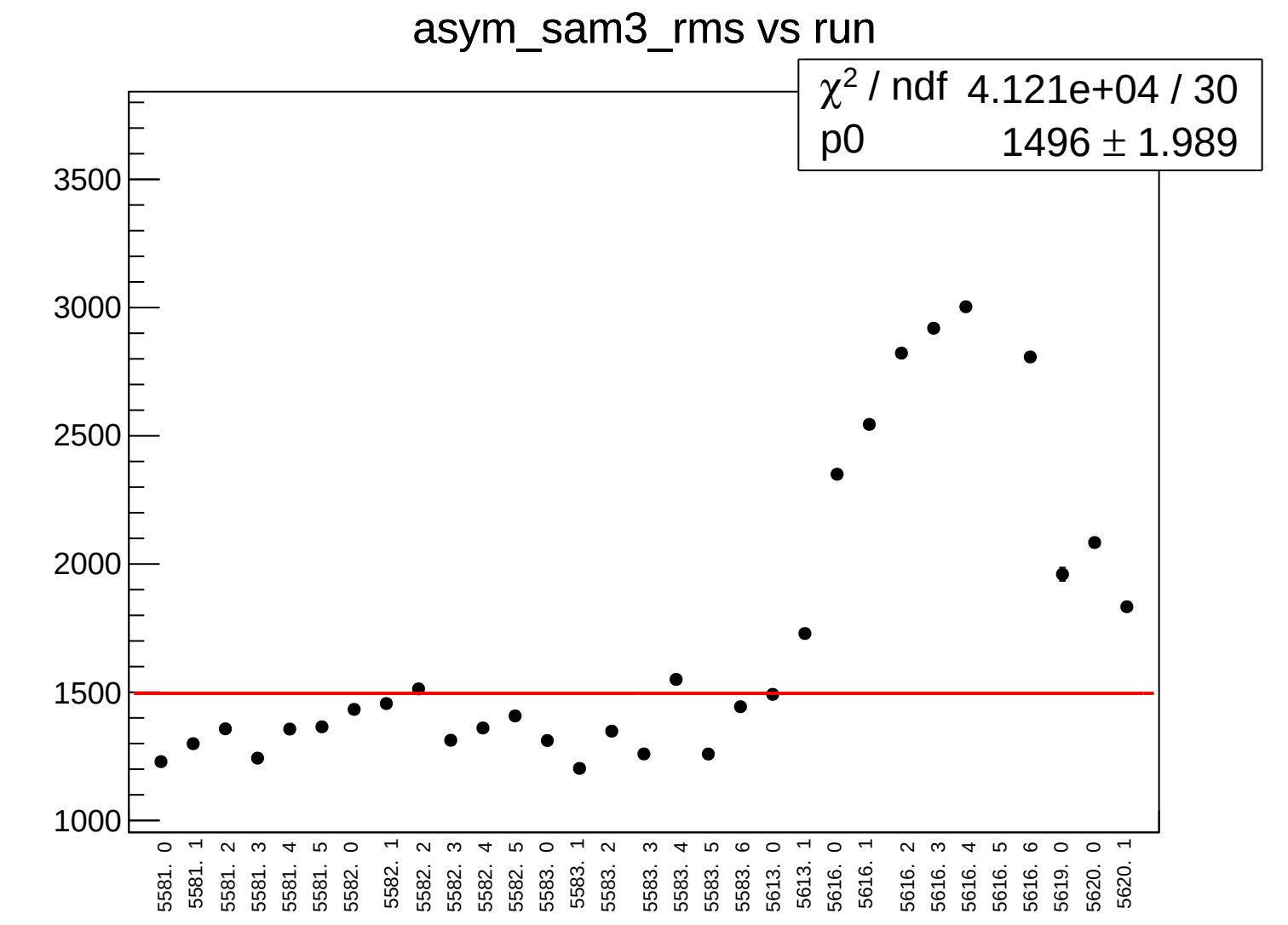

asym_sam1_rms vs run
χ² / ndf 6.901e+04 / 30
p0 728 ± 0.9929
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

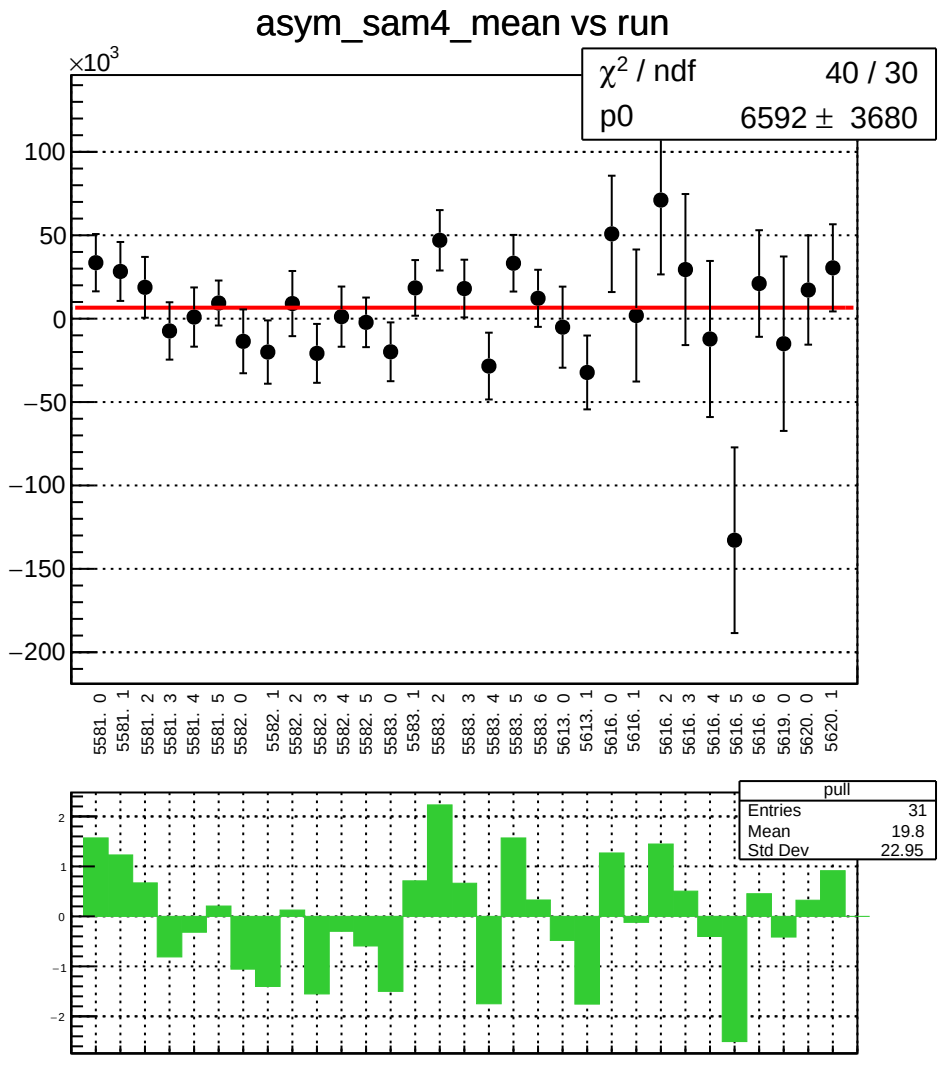

asym_sam2_mean vs run
×10^3
χ² / ndf 41.97 / 30
p0 6610 ± 1.025e+04
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.31
Std Dev 18.61
2
1
0
−1
−2

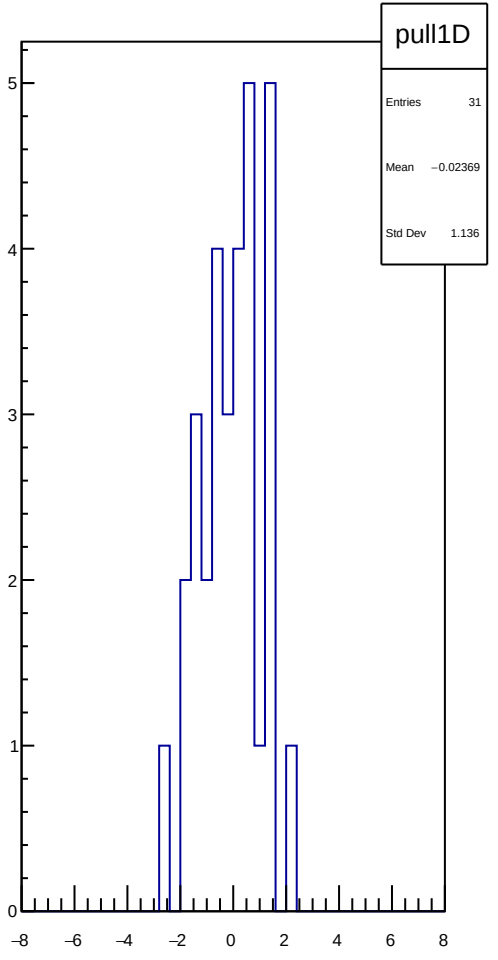

pull1D
Entries 31
Mean −0.04467
Std Dev 1.163
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

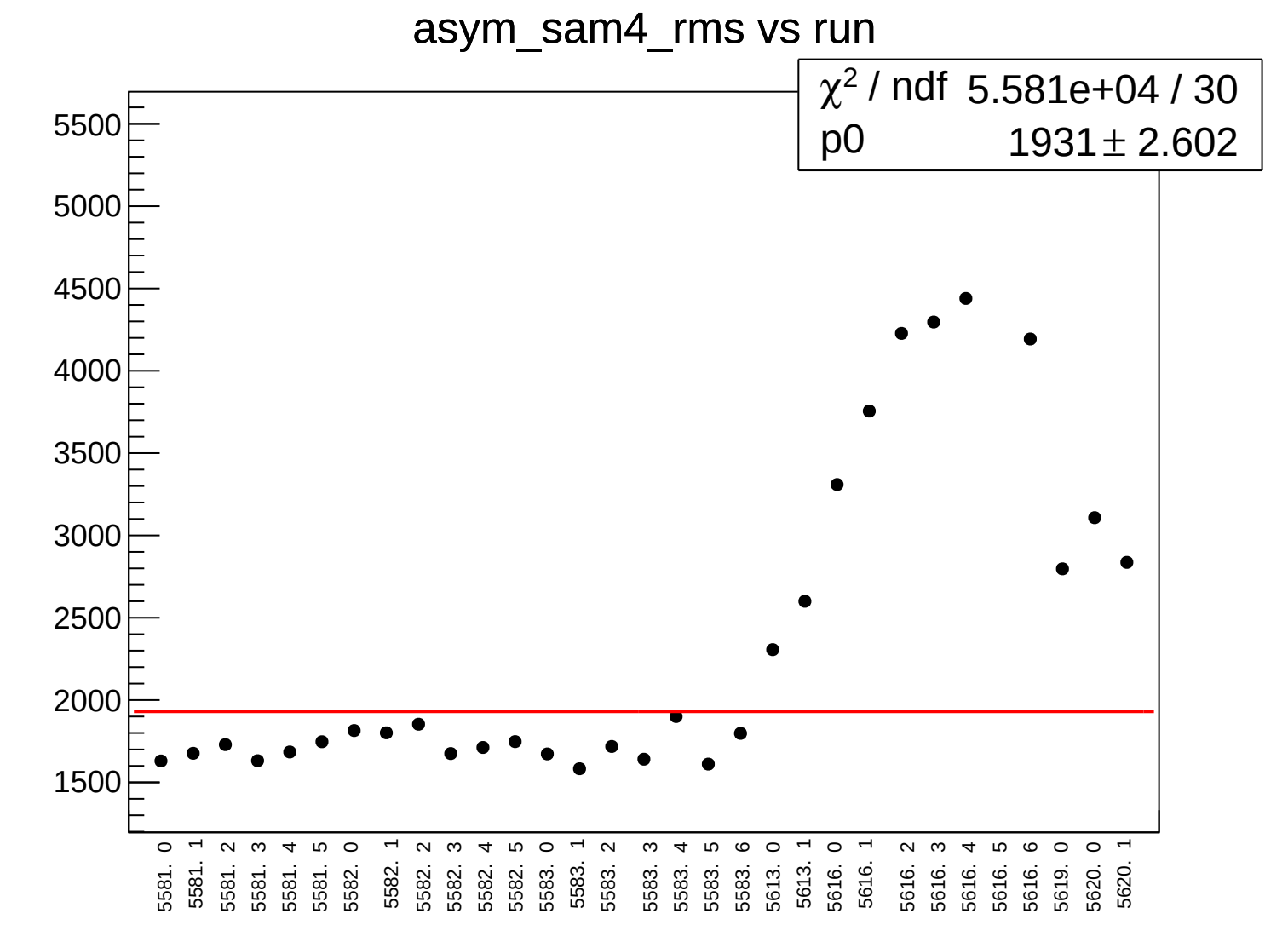

asym_sam2_rms vs run
χ² / ndf 2.126e+04 / 30
p0 5545 ± 7.248
10000
9000
8000
7000
6000
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

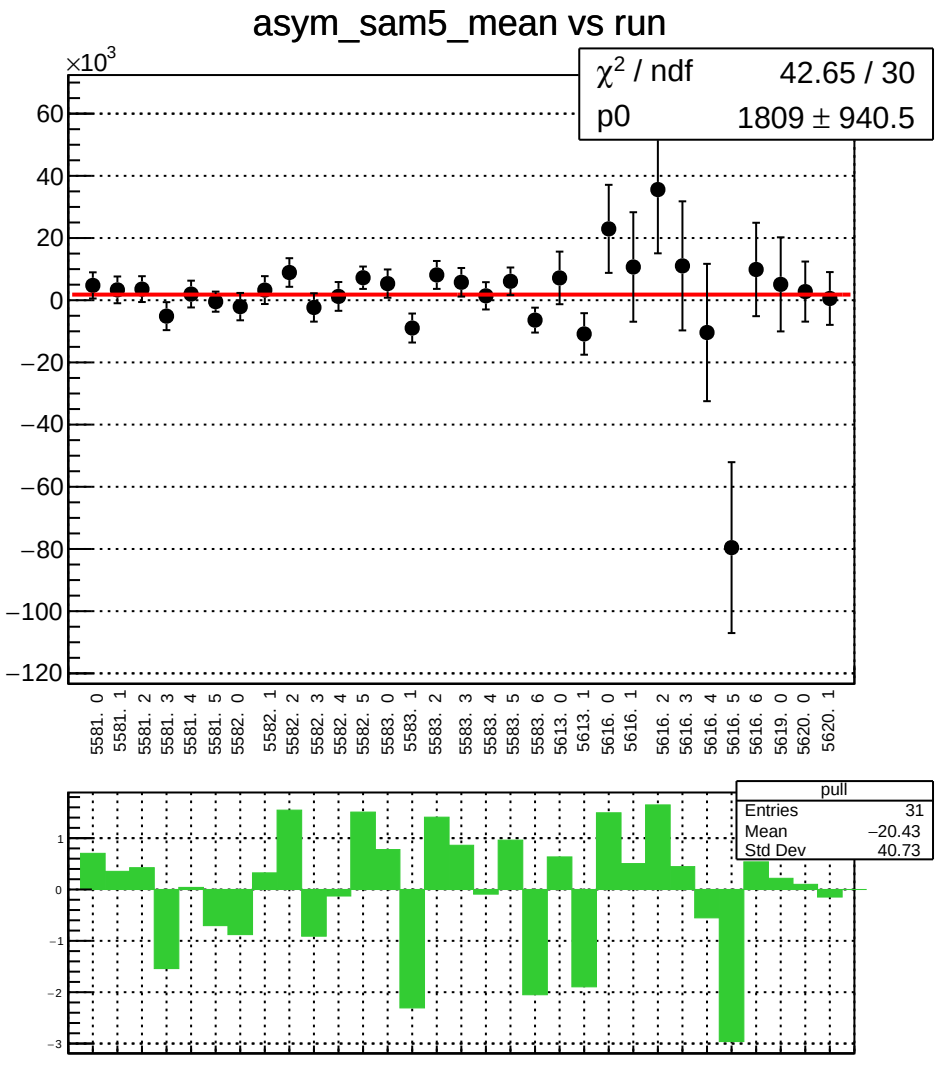

asym_sam3_mean vs run
×10^3
χ^2 / ndf 41.76 / 30
p0 3544 ± 2813
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.642
Std Dev 19.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.04203
Std Dev 1.16
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

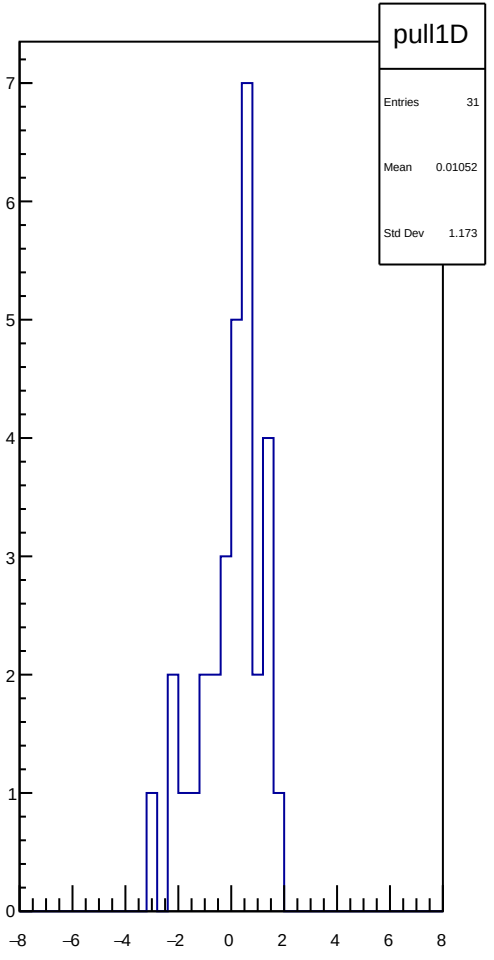

asym_sam3_rms vs run
χ² / ndf 4.121e+04 / 30
p0 1496 ± 1.989
3500
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

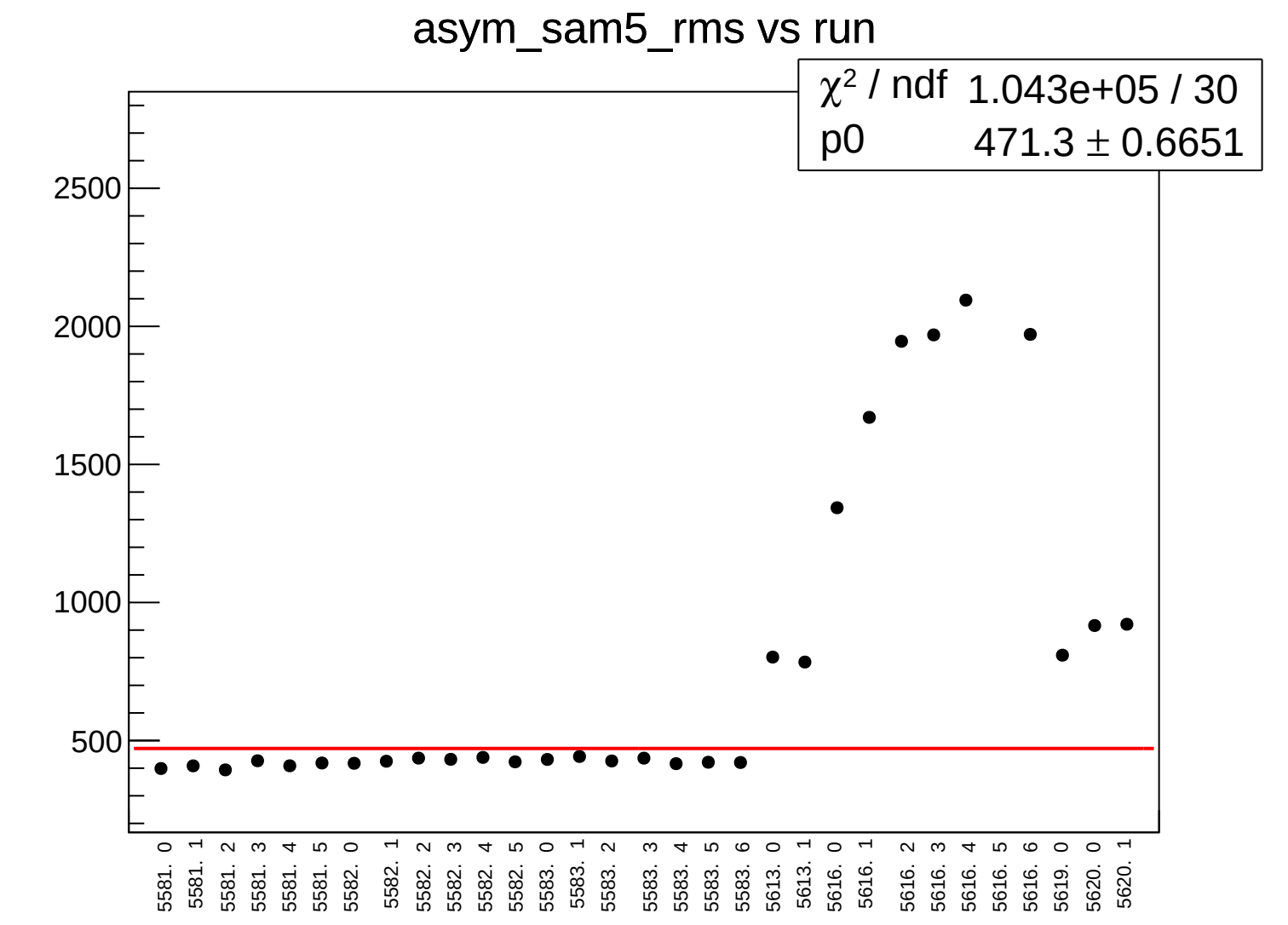

asym_sam4_mean vs run
×10^3
χ² / ndf 40 / 30
p0 6592 ± 3680
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.8
Std Dev 22.95
2
1
0
−1
−2

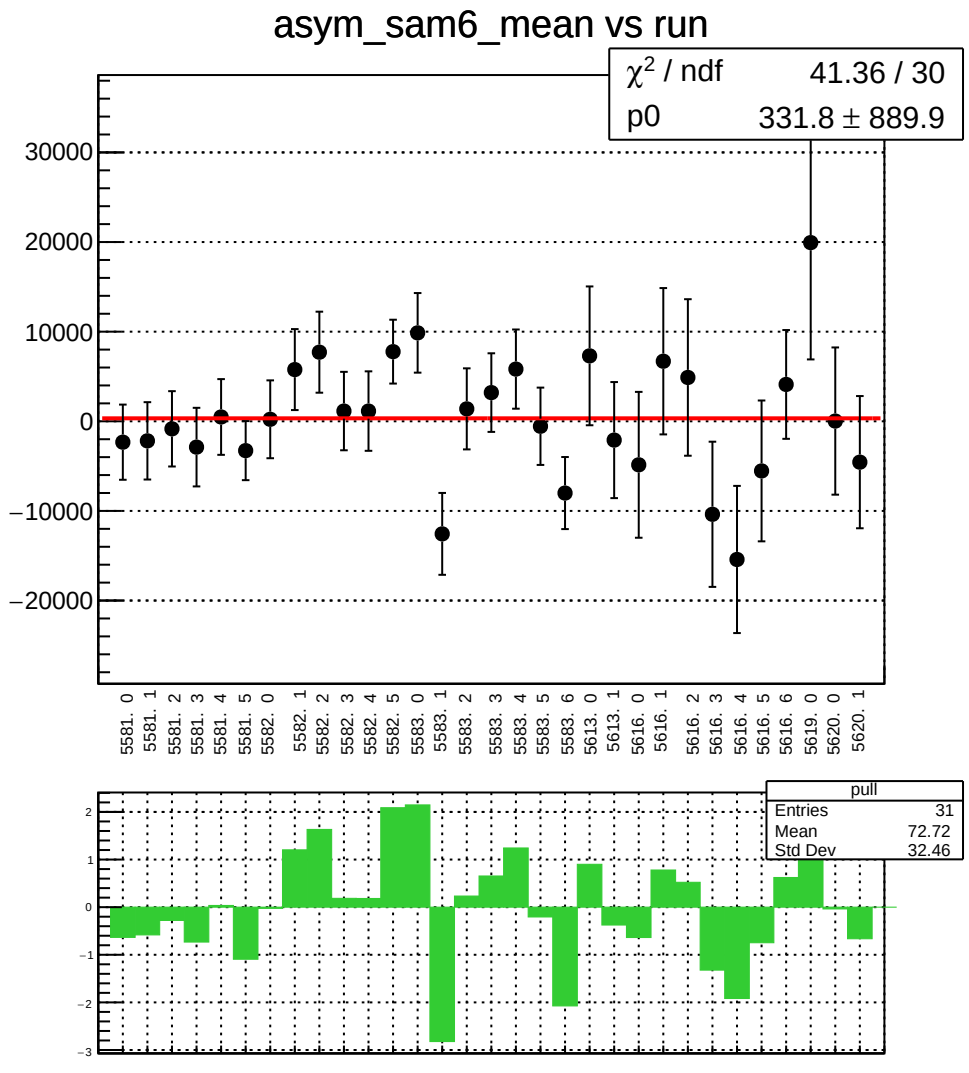

pull1D
Entries 31
Mean −0.02369
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

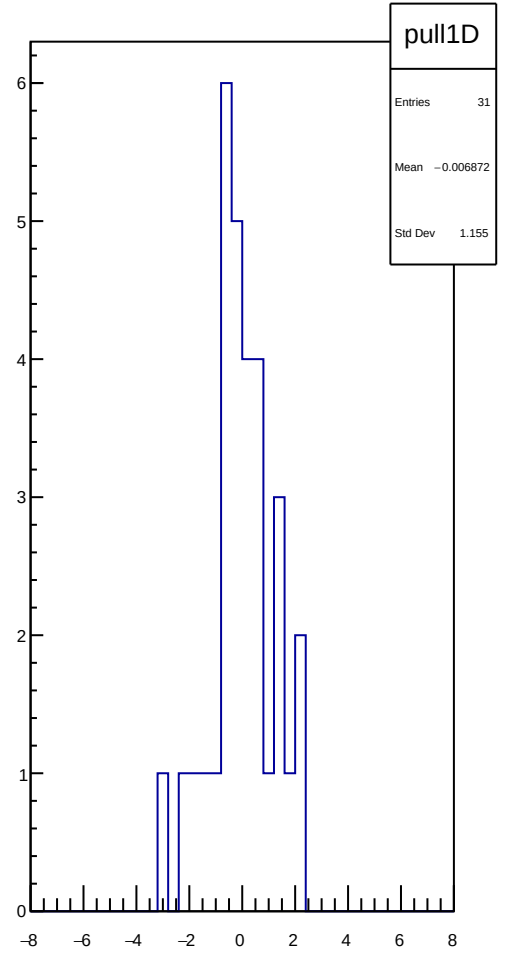

asym_sam4_rms vs run
χ² / ndf 5.581e+04 / 30
p0 1931 ± 2.602
5500
5000
4500
4000
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

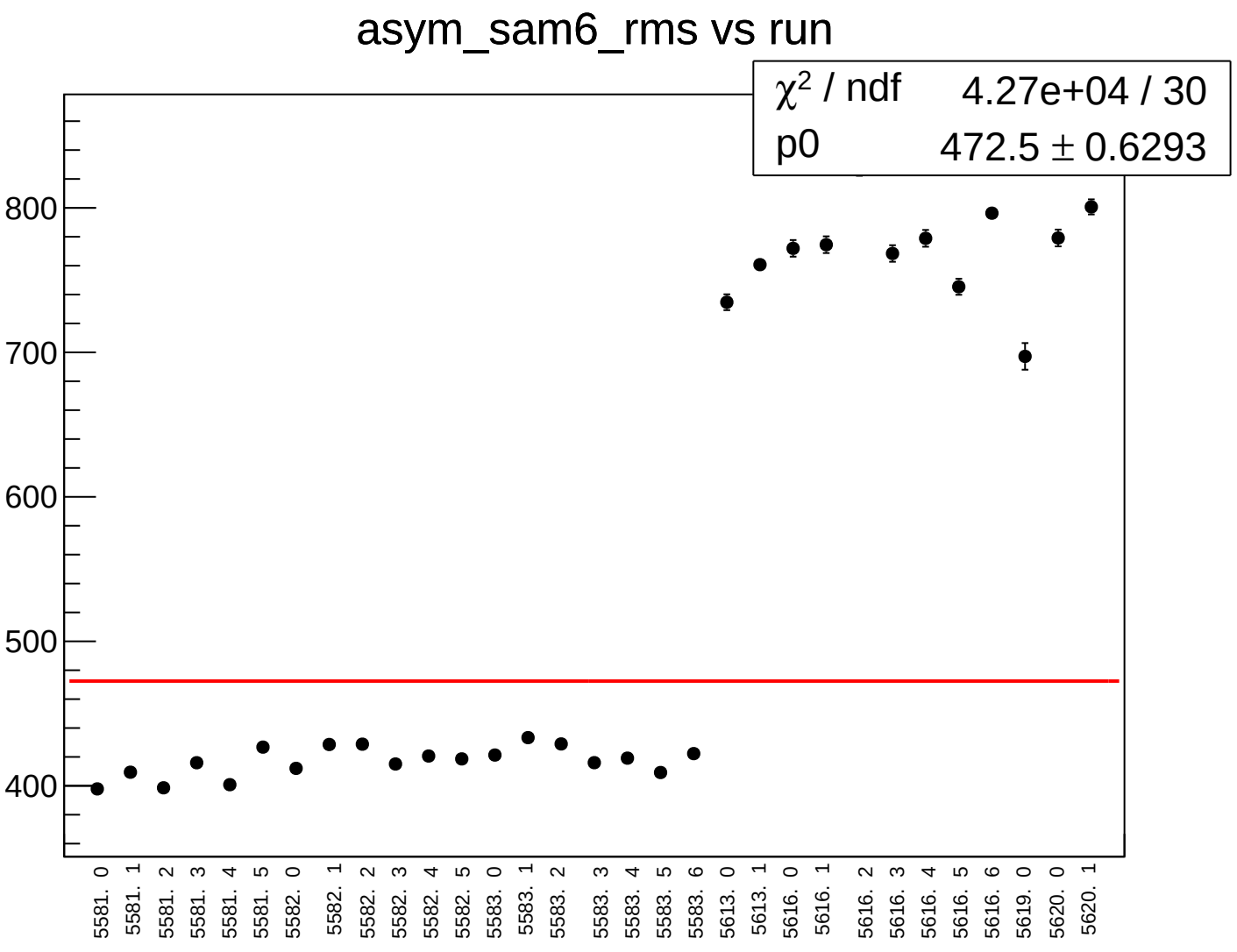

asym_sam5_mean vs run
×10^3
χ^2 / ndf 42.65 / 30
p0 1809 ± 940.5
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −20.43
Std Dev 40.73
1
0
−1
−2
−3

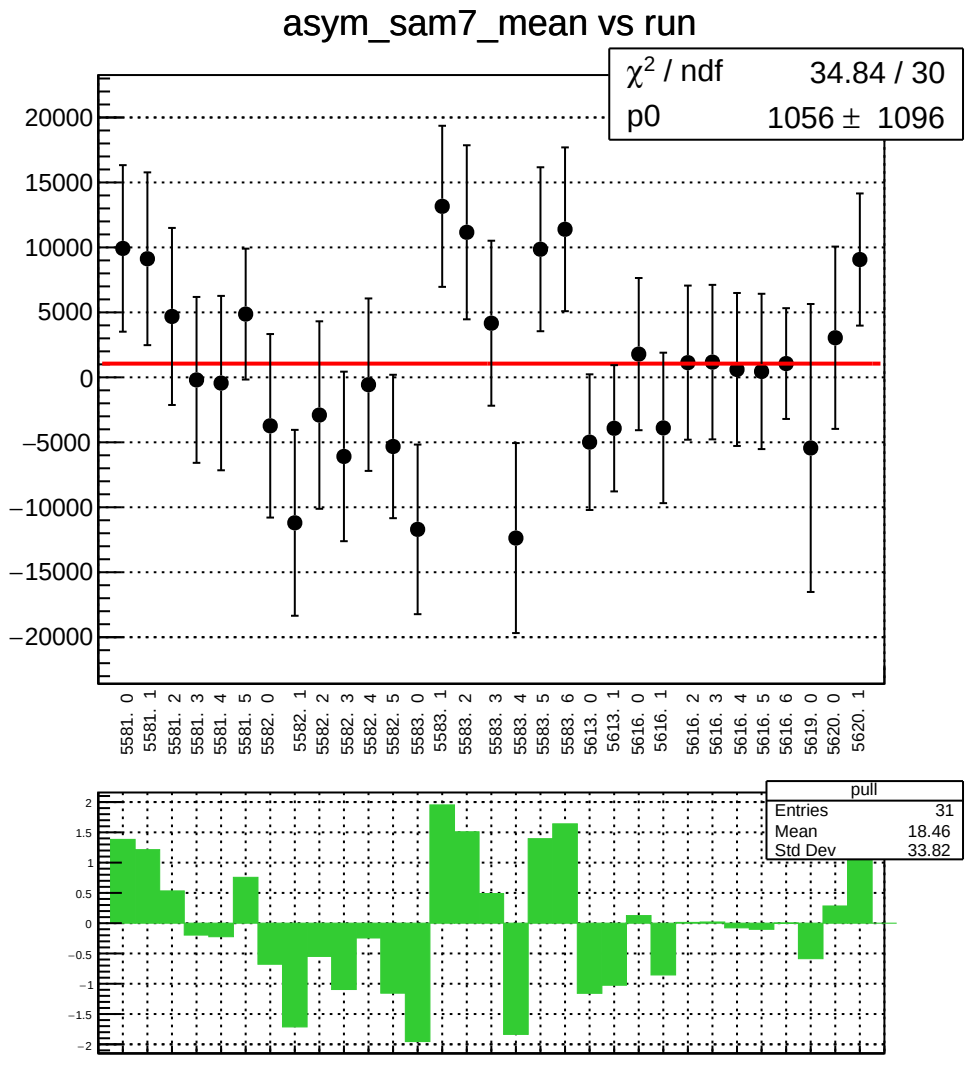

pull1D
Entries 31
Mean 0.01052
Std Dev 1.173
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

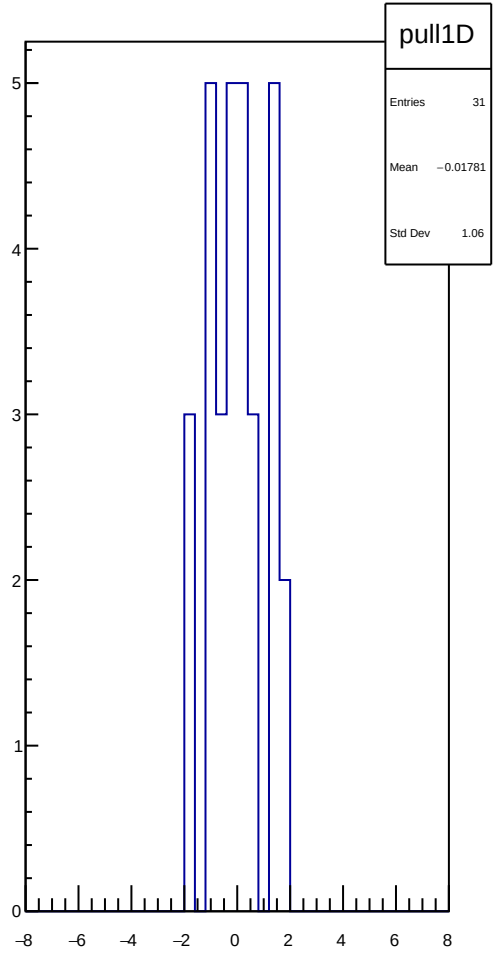

asym_sam5_rms vs run
χ² / ndf 1.043e+05 / 30
p0 471.3 ± 0.6651
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

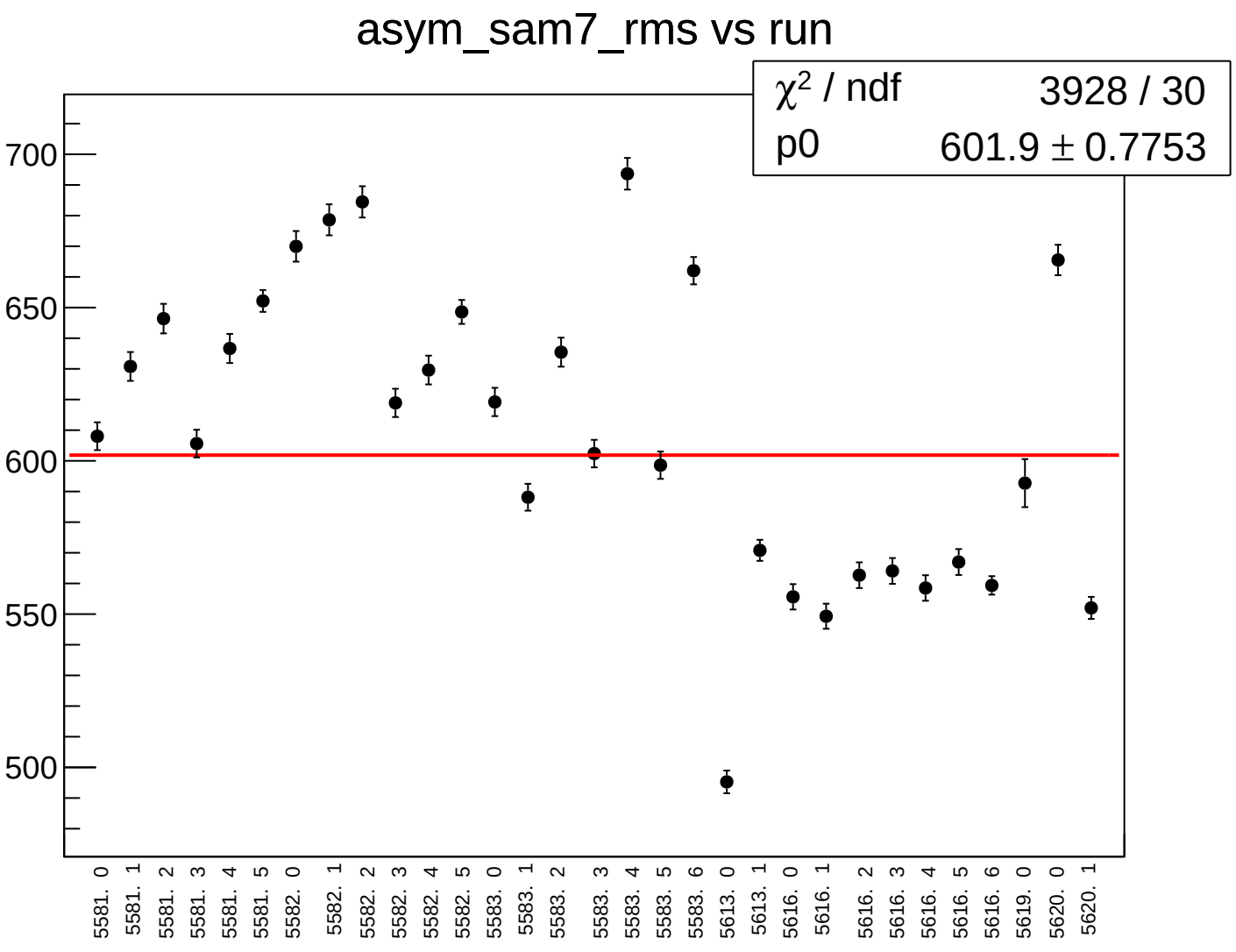

asym_sam6_mean vs run
χ² / ndf 41.36 / 30
p0 331.8 ± 889.9
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 72.72
Std Dev 32.46
2
1
0
−1
−2
−3

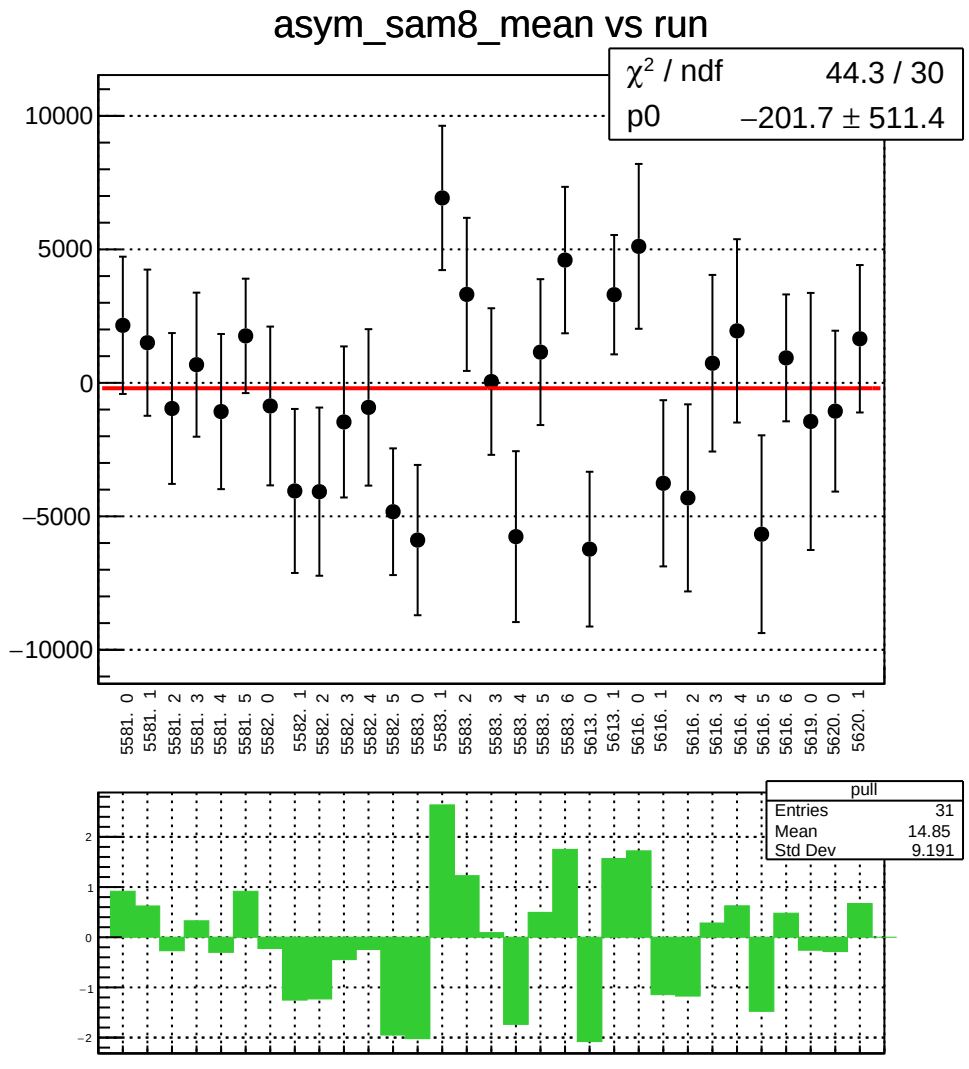

pull1D
Entries 31
Mean −0.006872
Std Dev 1.155
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

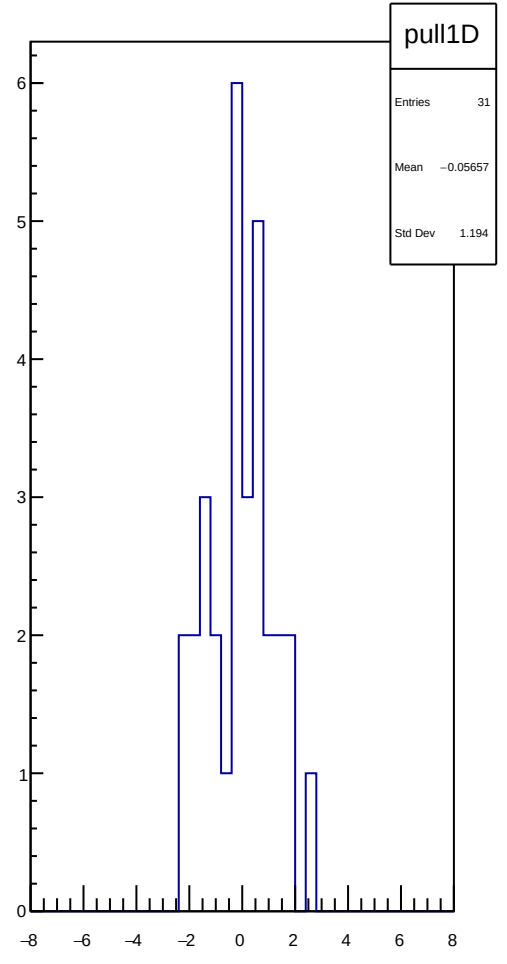

asym_sam6_rms vs run
χ² / ndf 4.27e+04 / 30
p0 472.5 ± 0.6293
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

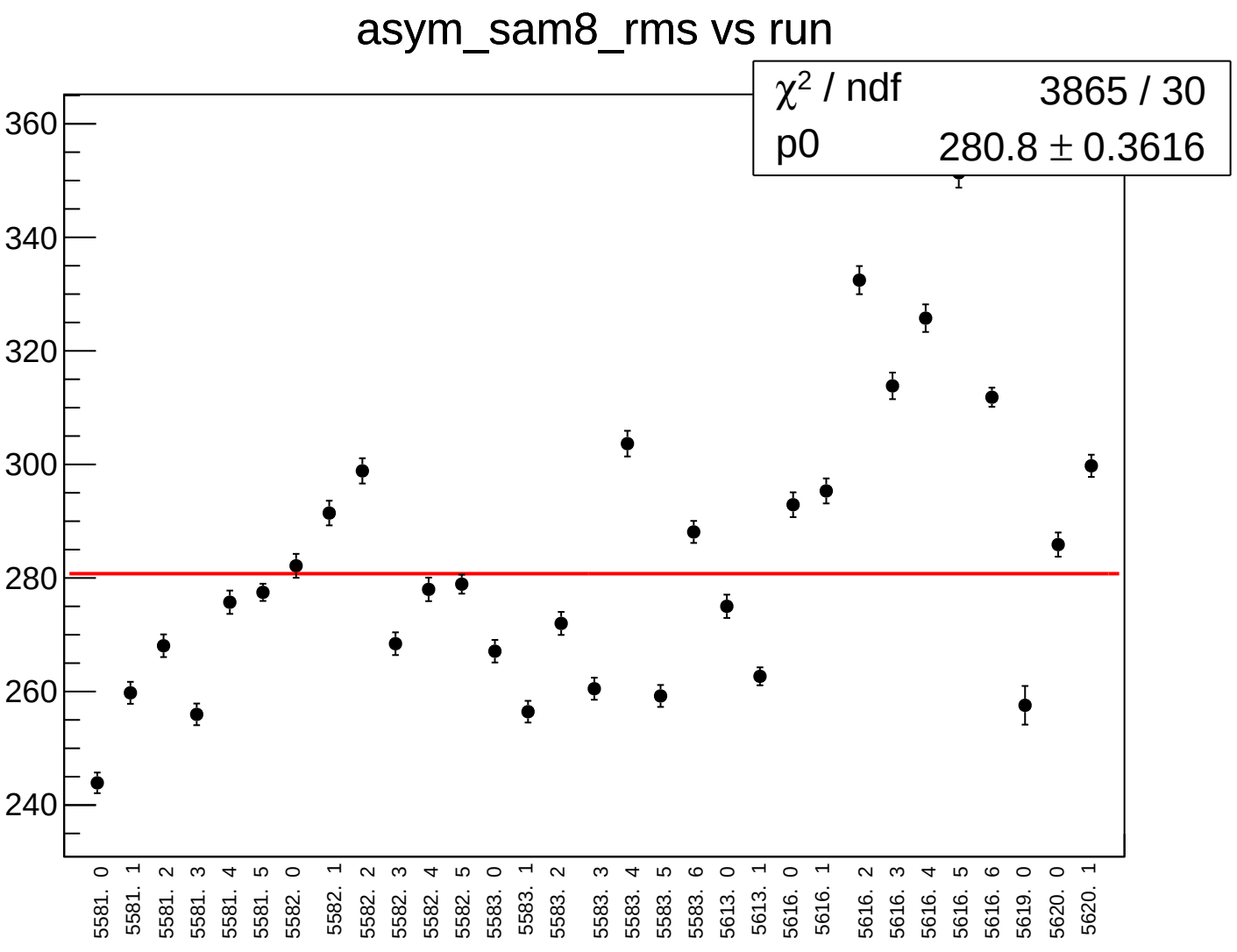

asym_sam7_mean vs run
χ² / ndf 34.84 / 30
p0 1056 ± 1096
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 18.46
Std Dev 33.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

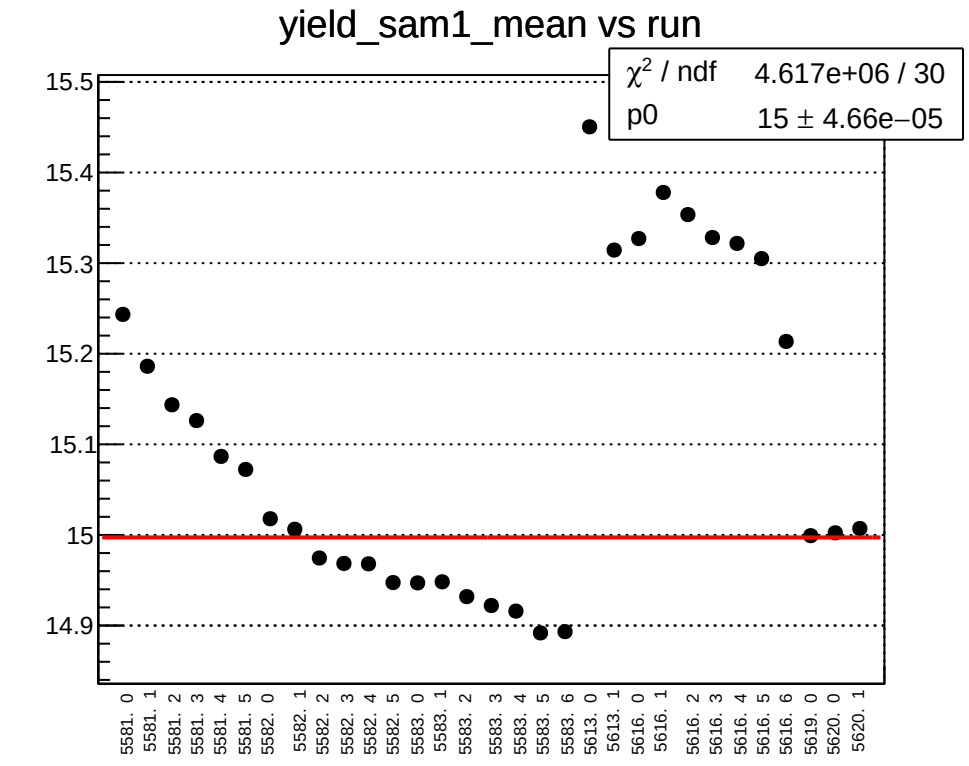

pull1D
Entries 31
Mean −0.01781
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

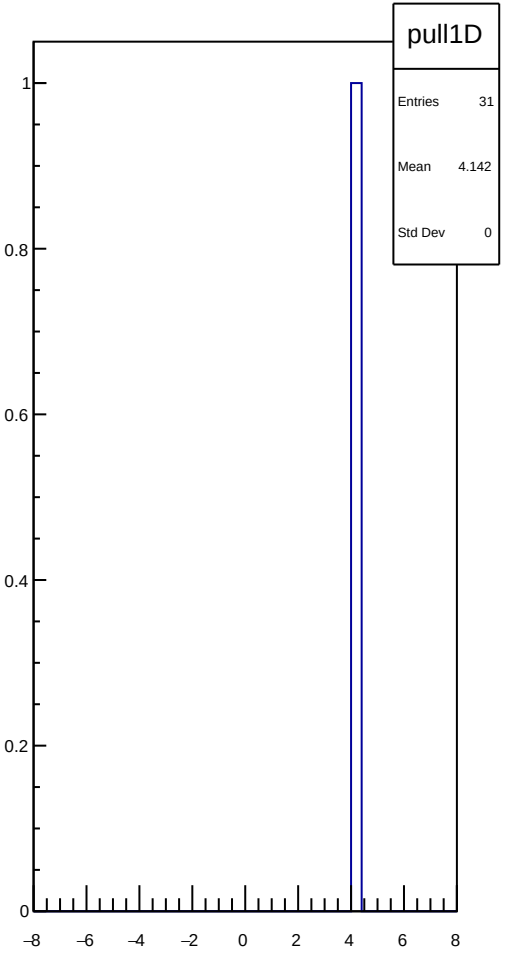

asym_sam7_rms vs run
χ² / ndf 3928 / 30
p0 601.9 ± 0.7753
700
650
600
550
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

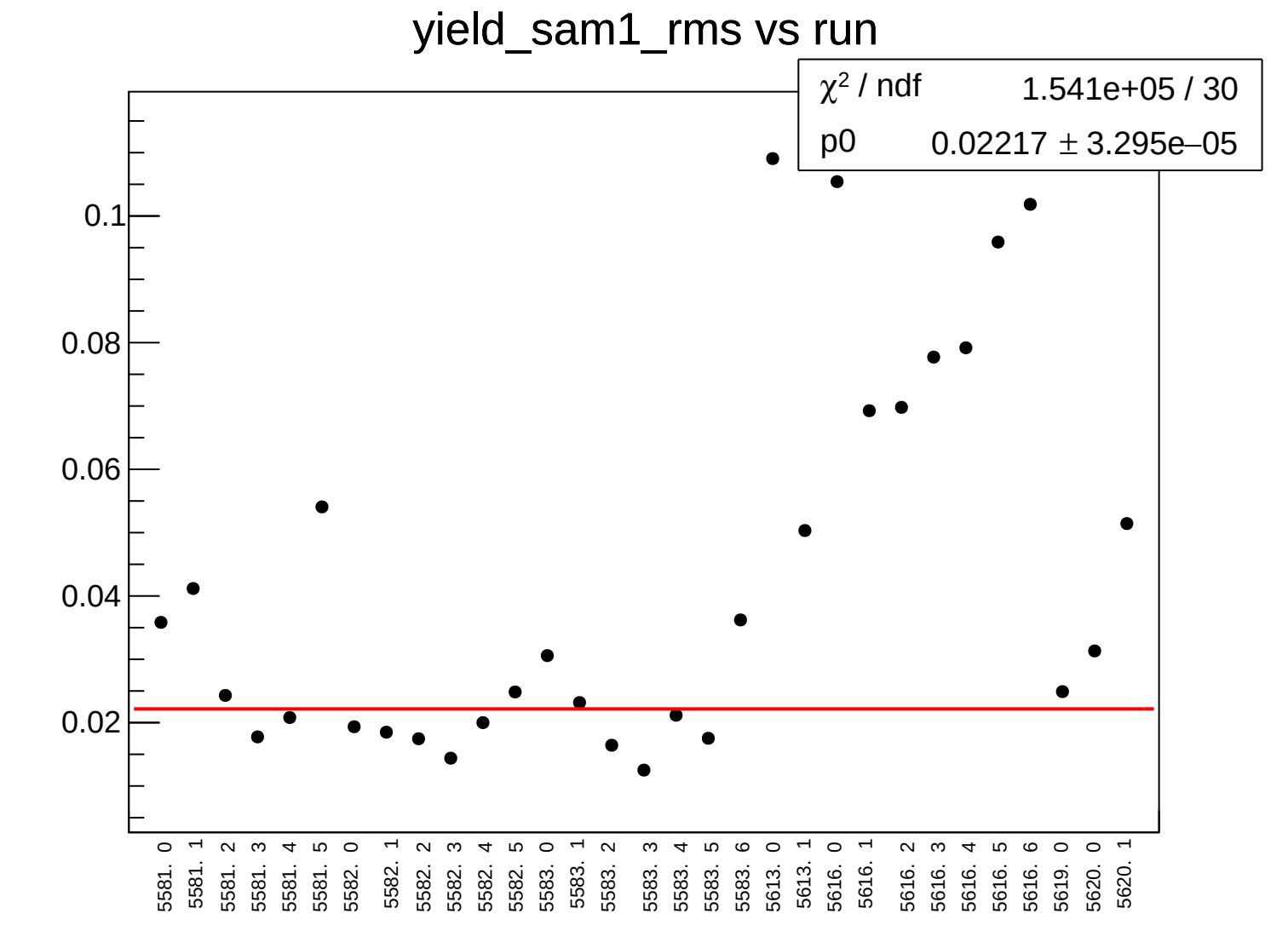

asym_sam8_mean vs run
χ² / ndf 44.3 / 30
p0 −201.7 ± 511.4
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 14.85
Std Dev 9.191
2
1
0
−1
−2

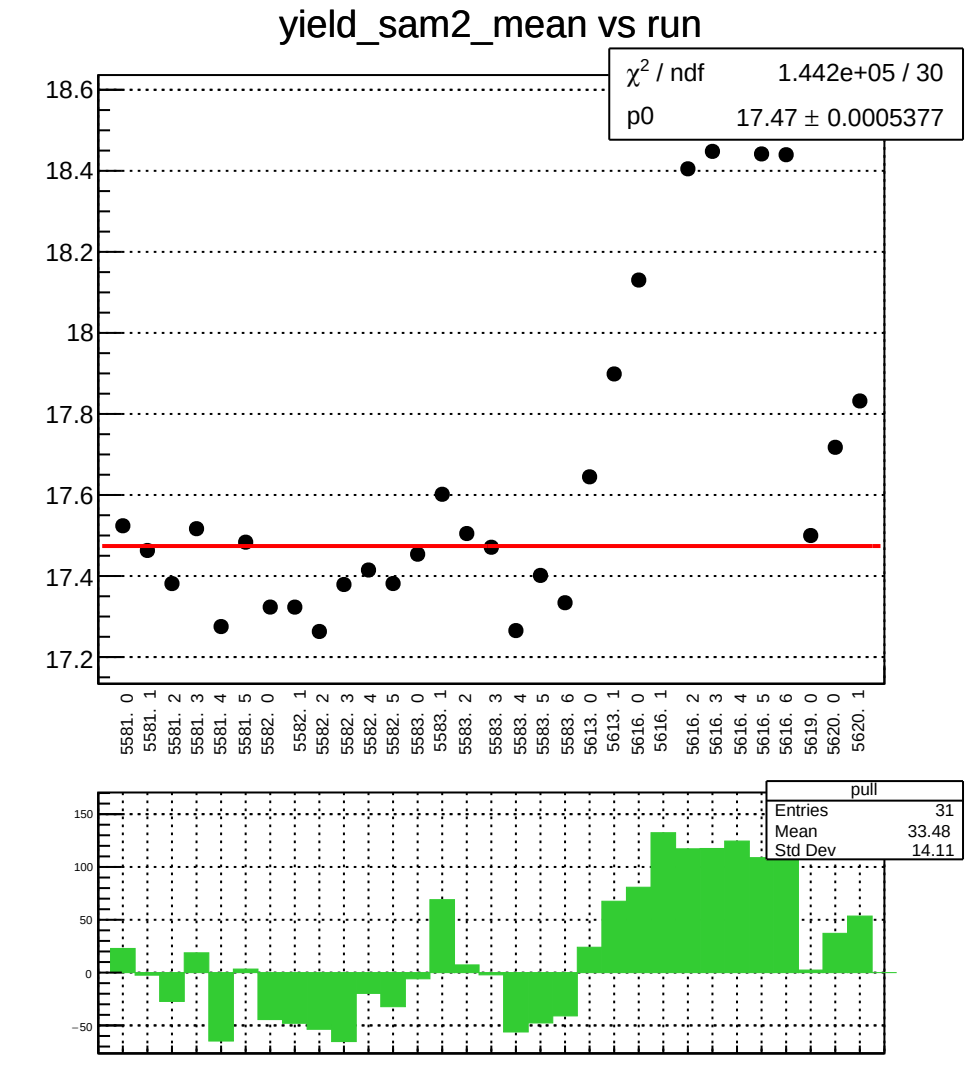

pull1D
Entries 31
Mean −0.05657
Std Dev 1.194
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

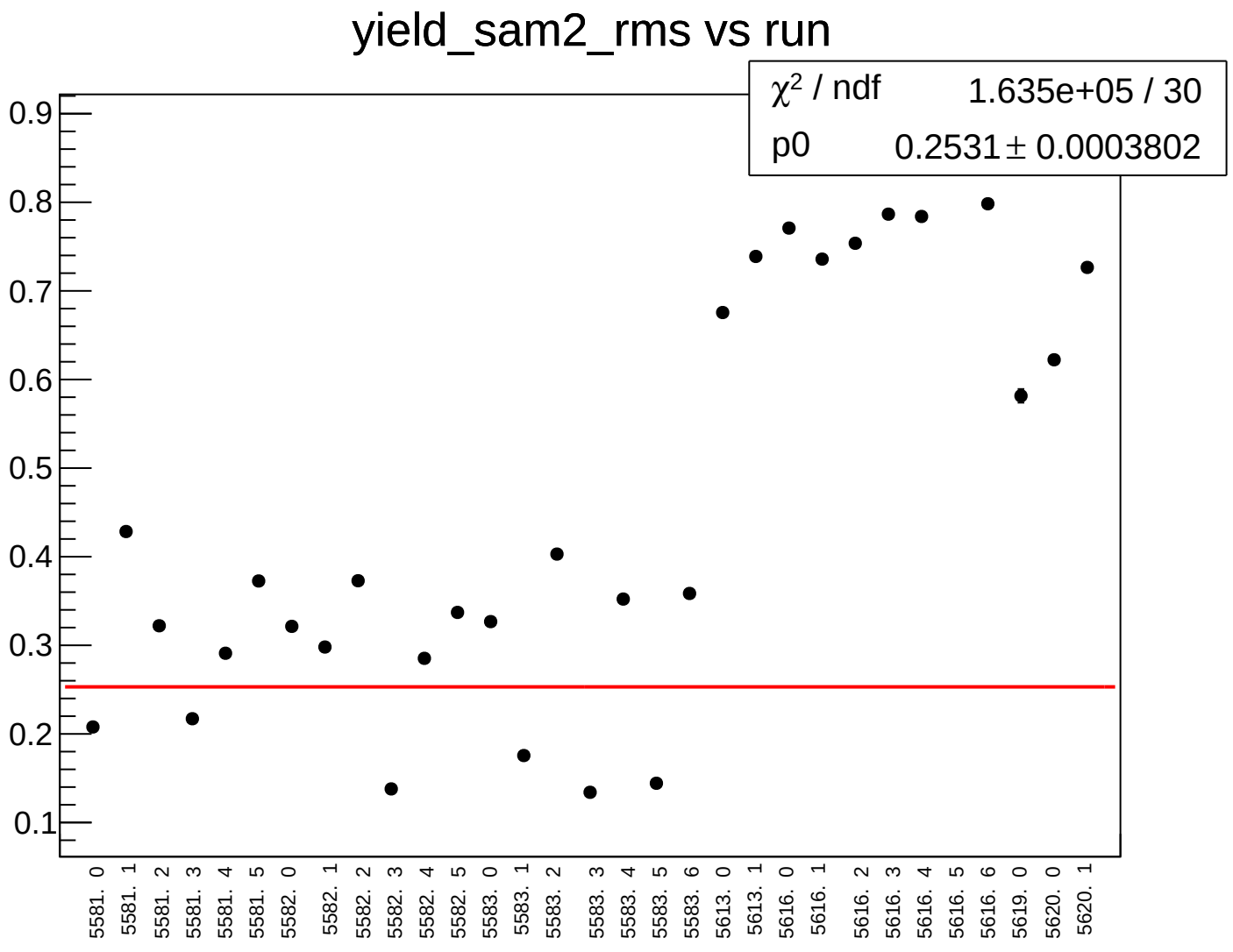

asym_sam8_rms vs run
χ² / ndf 3865 / 30
p0 280.8 ± 0.3616
360
340
320
300
280
260
240
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

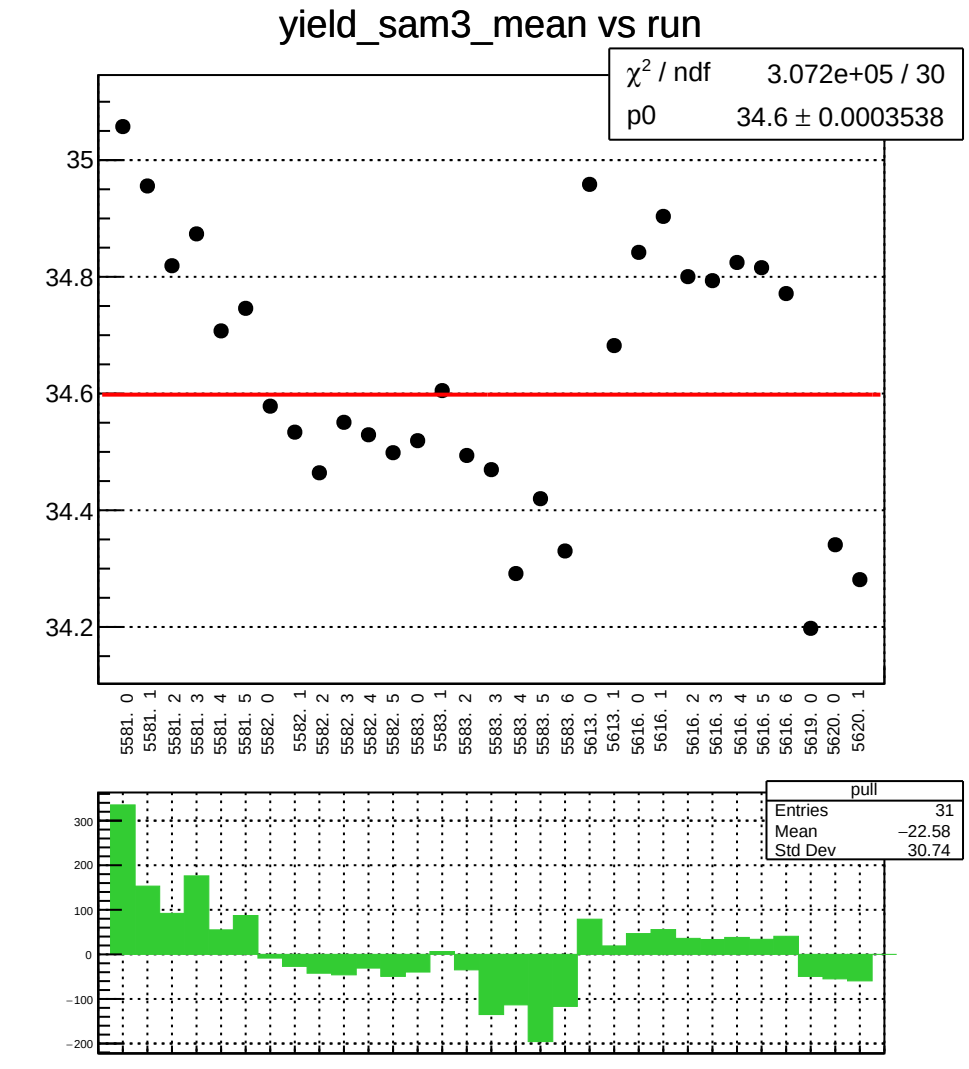

yield_sam1_mean vs run
χ² / ndf 4.617e+06 / 30
p0 15 ± 4.66e−05
15.5
15.4
15.3
15.2
15.1
15
14.9
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 13.54
Std Dev 13.86
800
600
400
200
0
−200
−400
−600

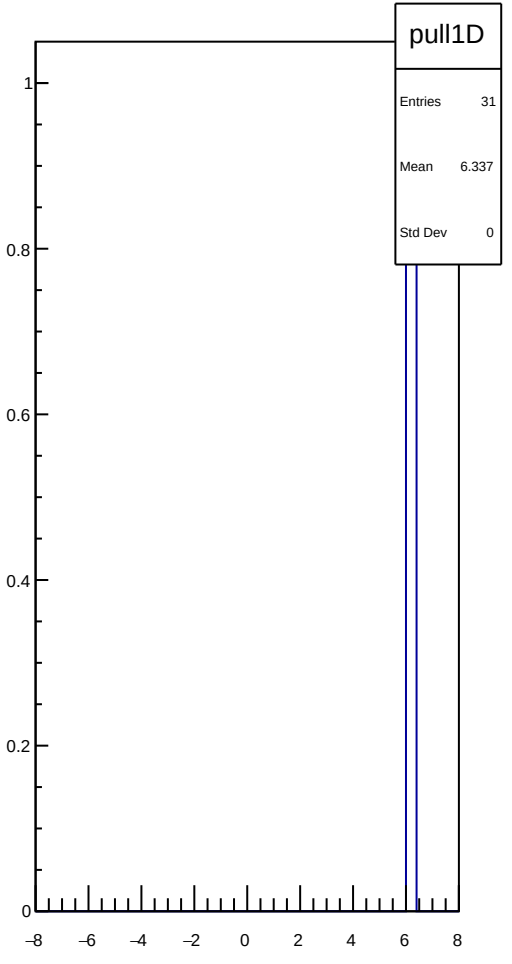

pull1D
Entries 31
Mean 4.142
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

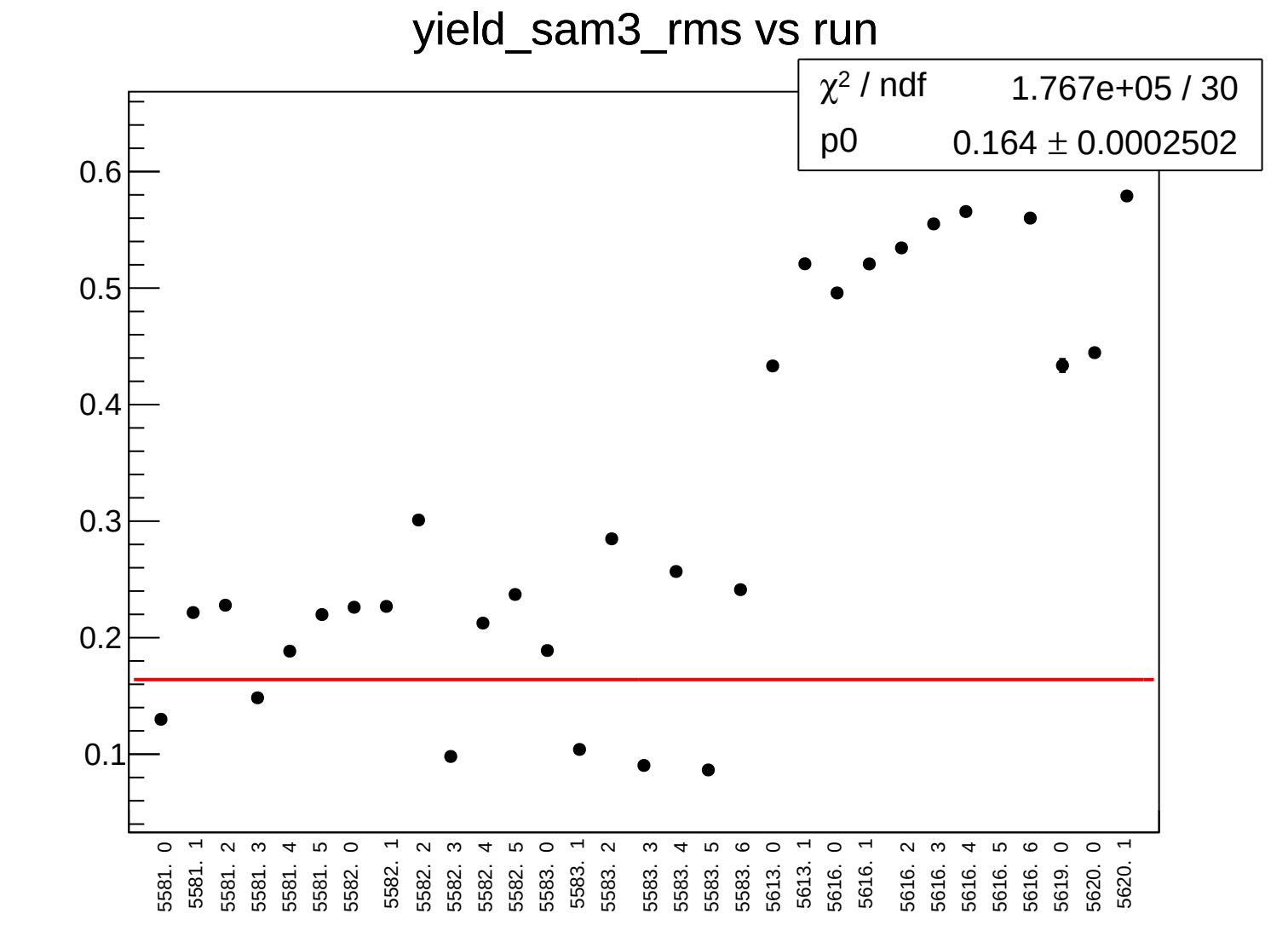

yield_sam1_rms vs run
χ² / ndf 1.541e+05 / 30
p0 0.02217 ± 3.295e–05
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

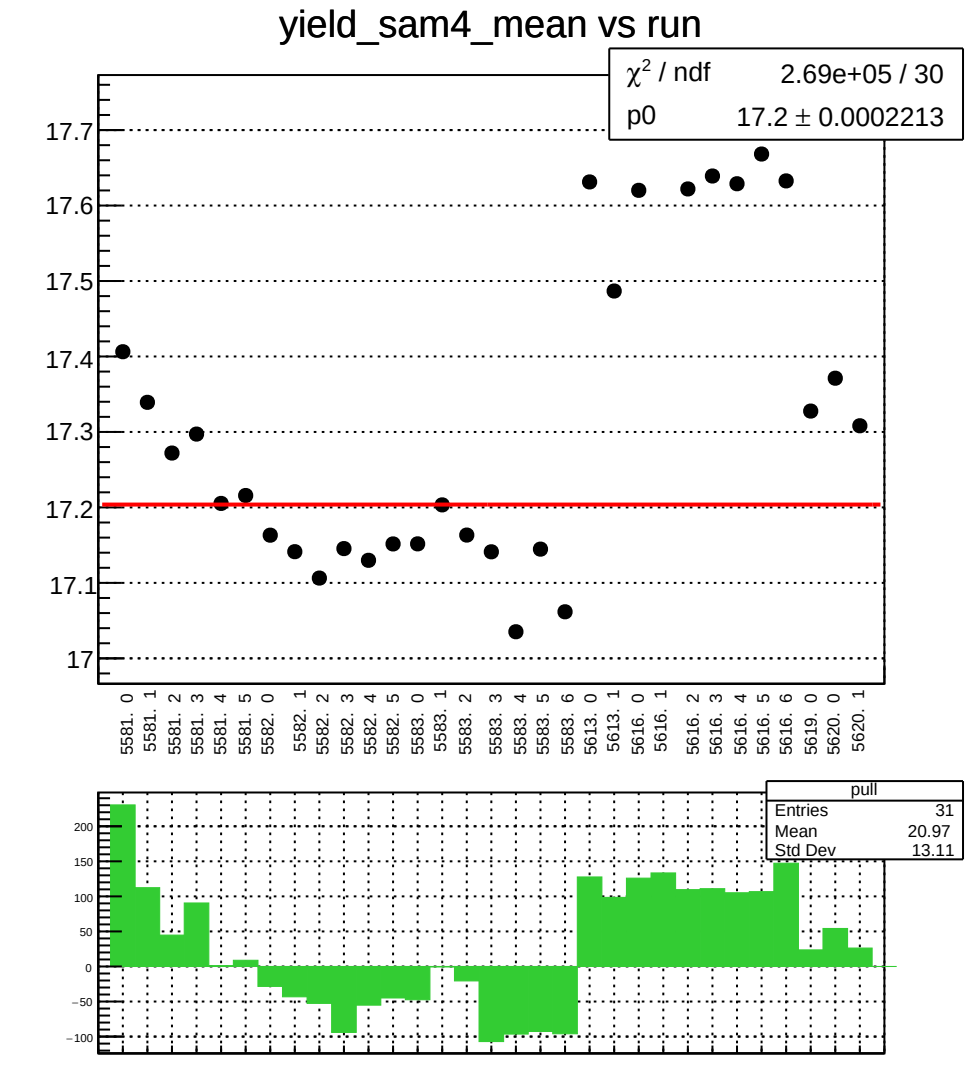

yield_sam2_mean vs run
χ² / ndf 1.442e+05 / 30
p0 17.47 ± 0.0005377
18.6
18.4
18.2
18
17.8
17.6
17.4
17.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.48
Std Dev 14.11
150
100
50
0
−50
pull1D
Entries 31
Mean 0.4352
Std Dev 4.337
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

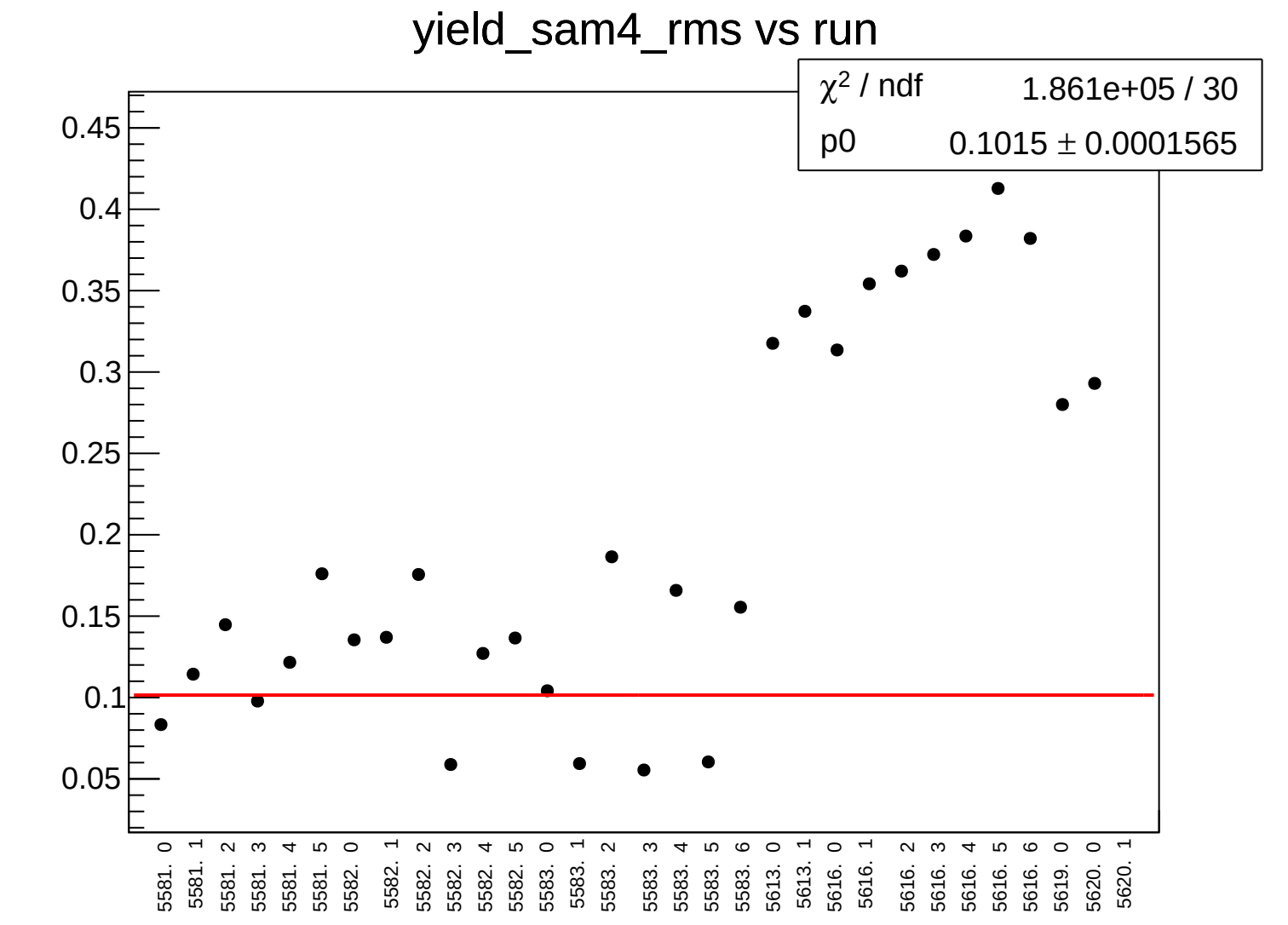

yield_sam2_rms vs run
χ² / ndf 1.635e+05 / 30
p0 0.2531 ± 0.0003802
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

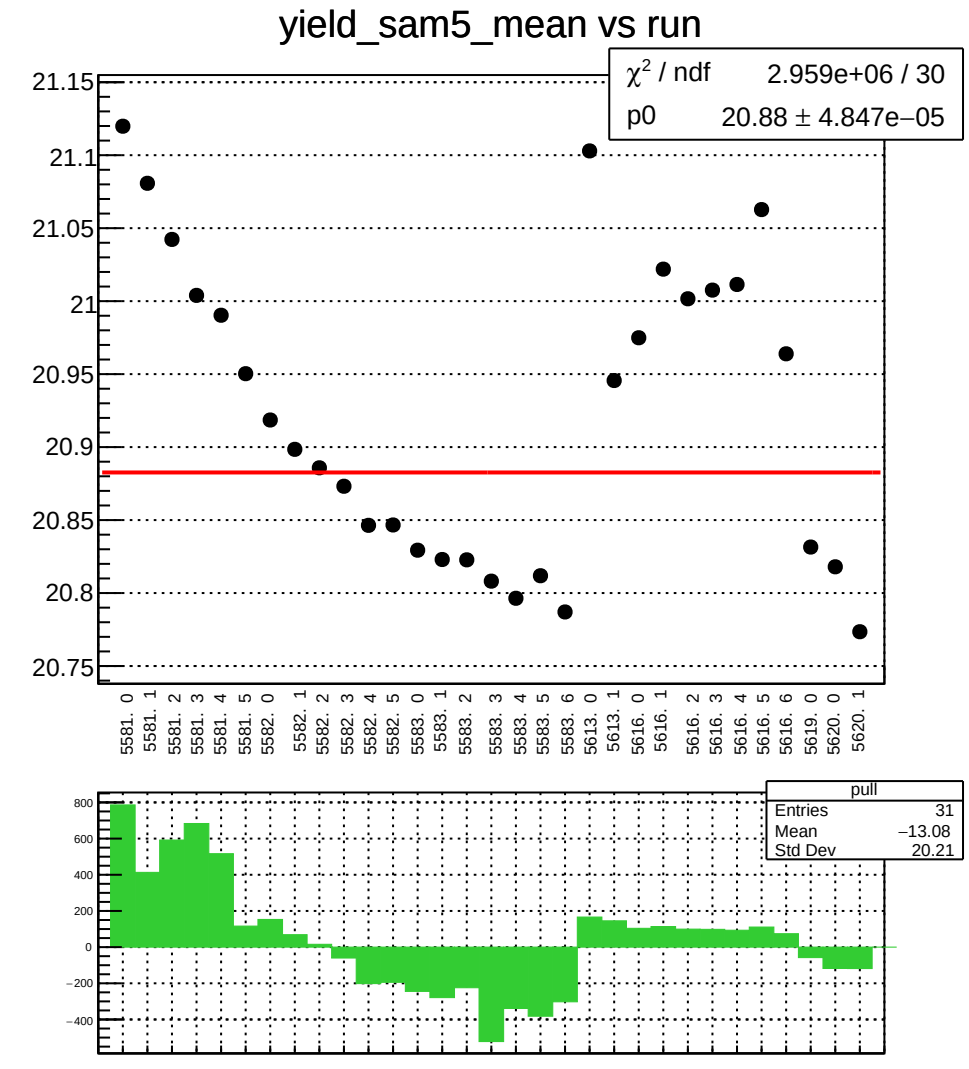

yield_sam3_mean vs run
χ² / ndf 3.072e+05 / 30
p0 34.6 ± 0.0003538
35
34.8
34.6
34.4
34.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −22.58
Std Dev 30.74
300
200
100
0
−100
−200

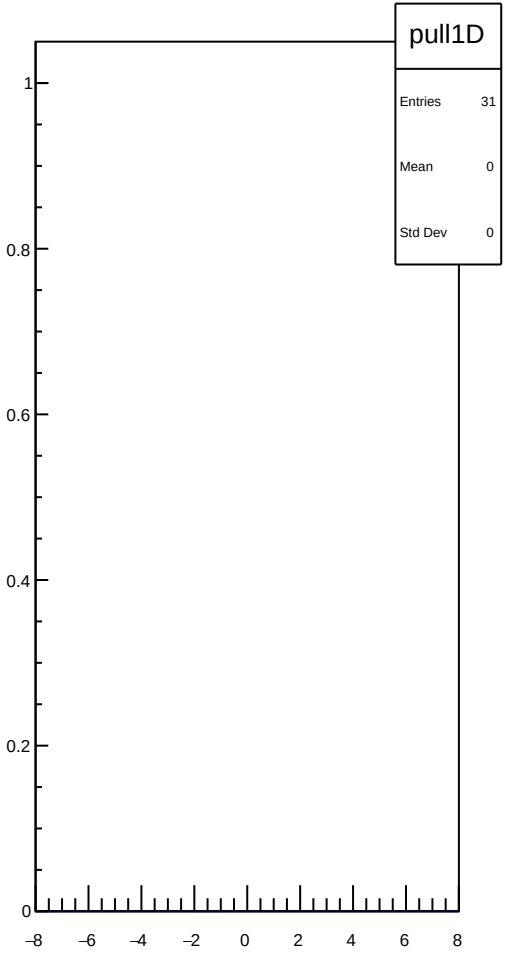

pull1D
Entries 31
Mean 6.337
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

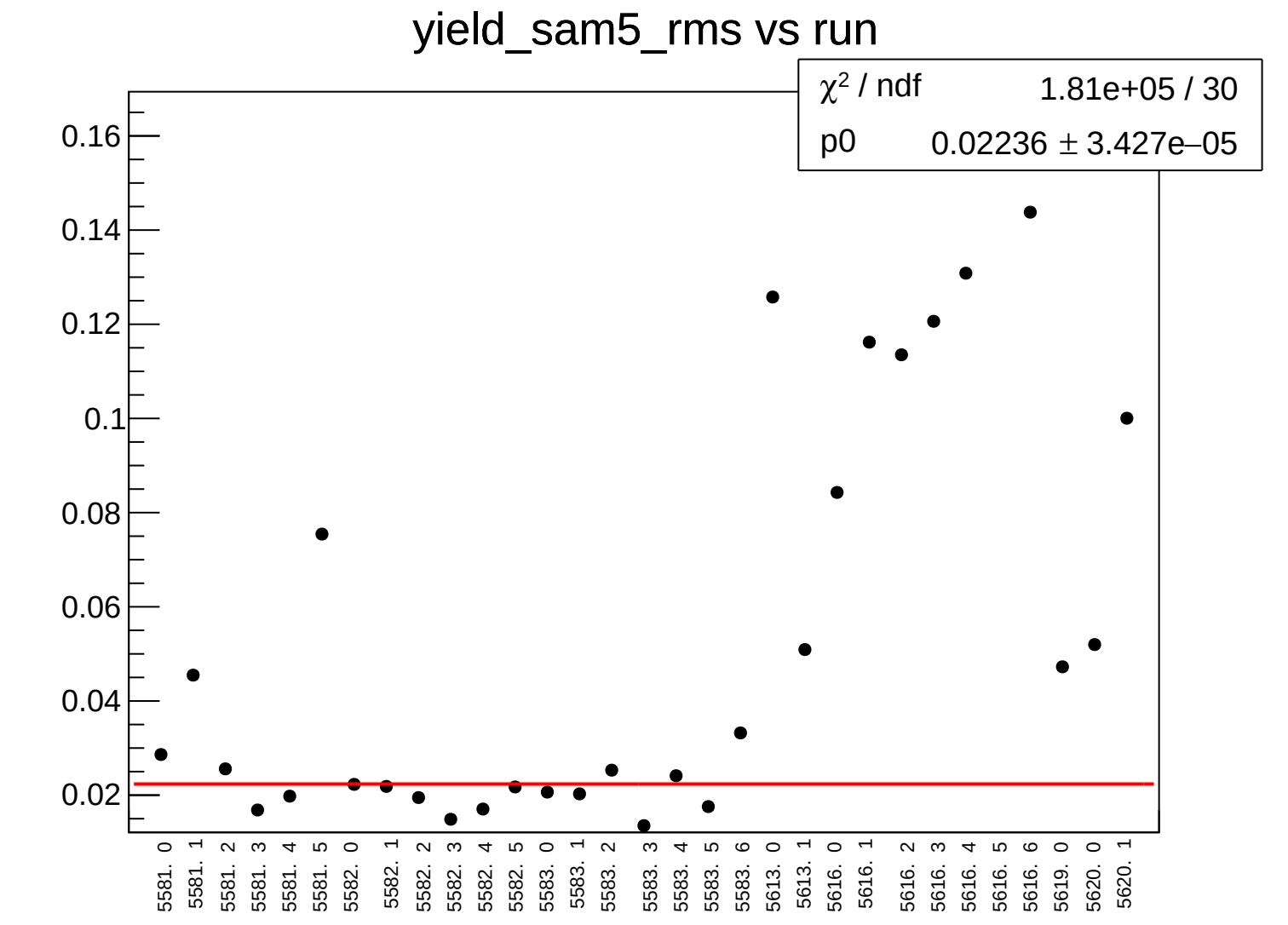

yield_sam3_rms vs run
χ² / ndf 1.767e+05 / 30
p0 0.164 ± 0.0002502
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

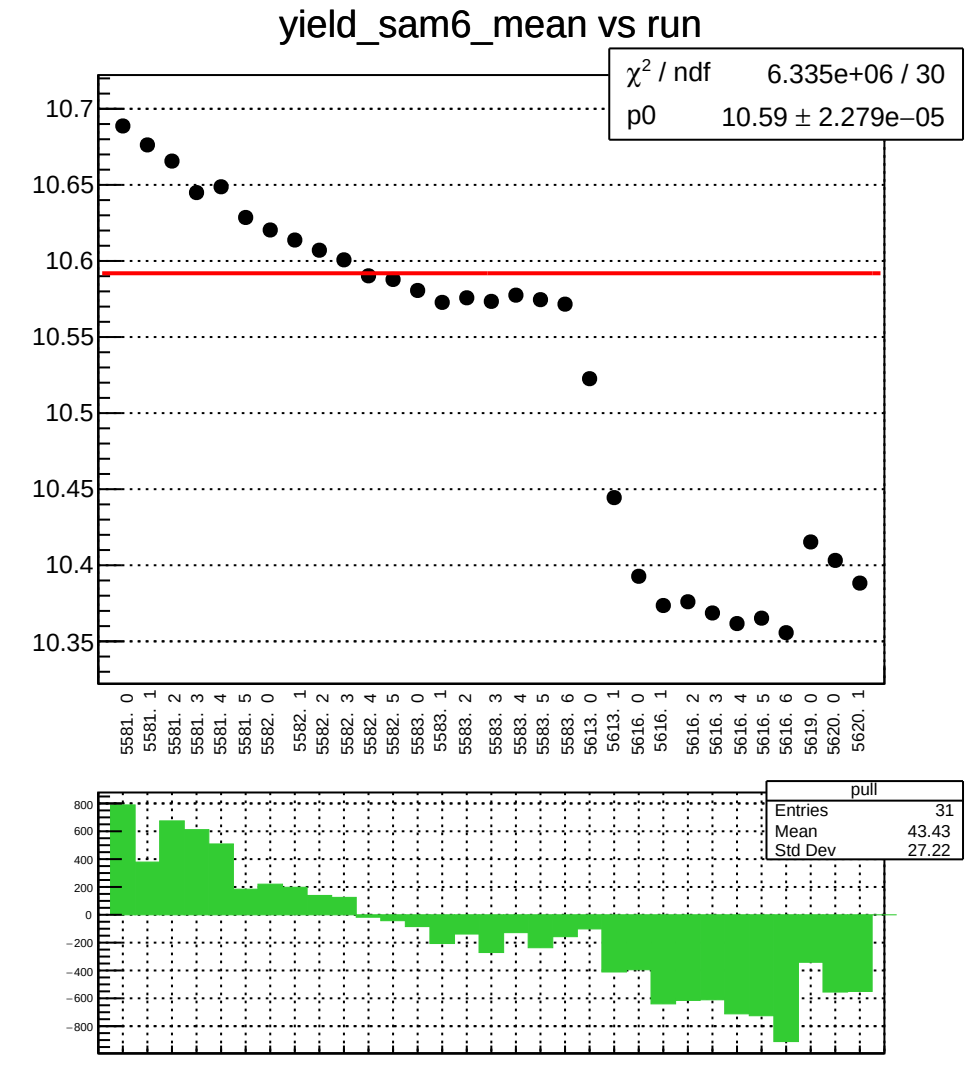

yield_sam4_mean vs run
χ² / ndf 2.69e+05 / 30
p0 17.2 ± 0.0002213
17.7
17.6
17.5
17.4
17.3
17.2
17.1
17
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.97
Std Dev 13.11
200
150
100
50
0
−50
−100
pull1D
Entries 31
Mean 0.2499
Std Dev 0.929
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

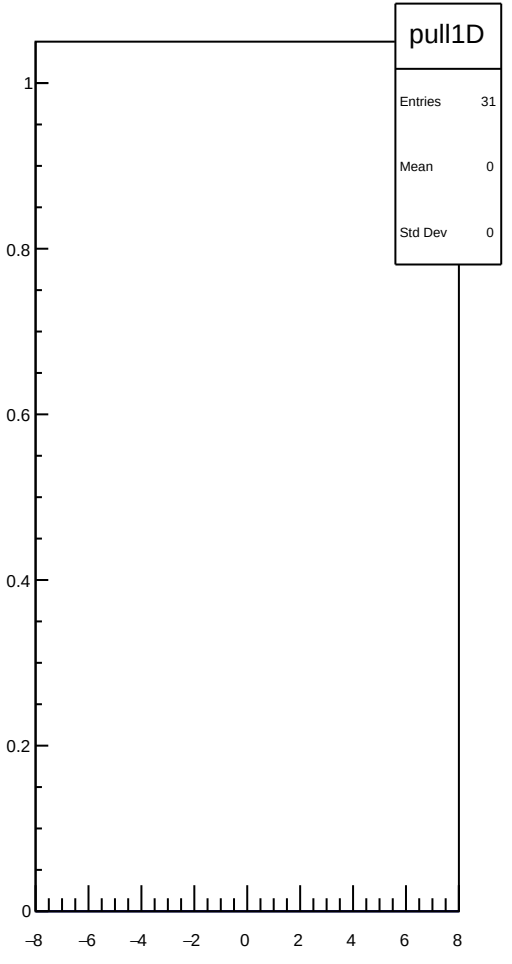

yield_sam4_rms vs run
χ² / ndf 1.861e+05 / 30
p0 0.1015 ± 0.0001565
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

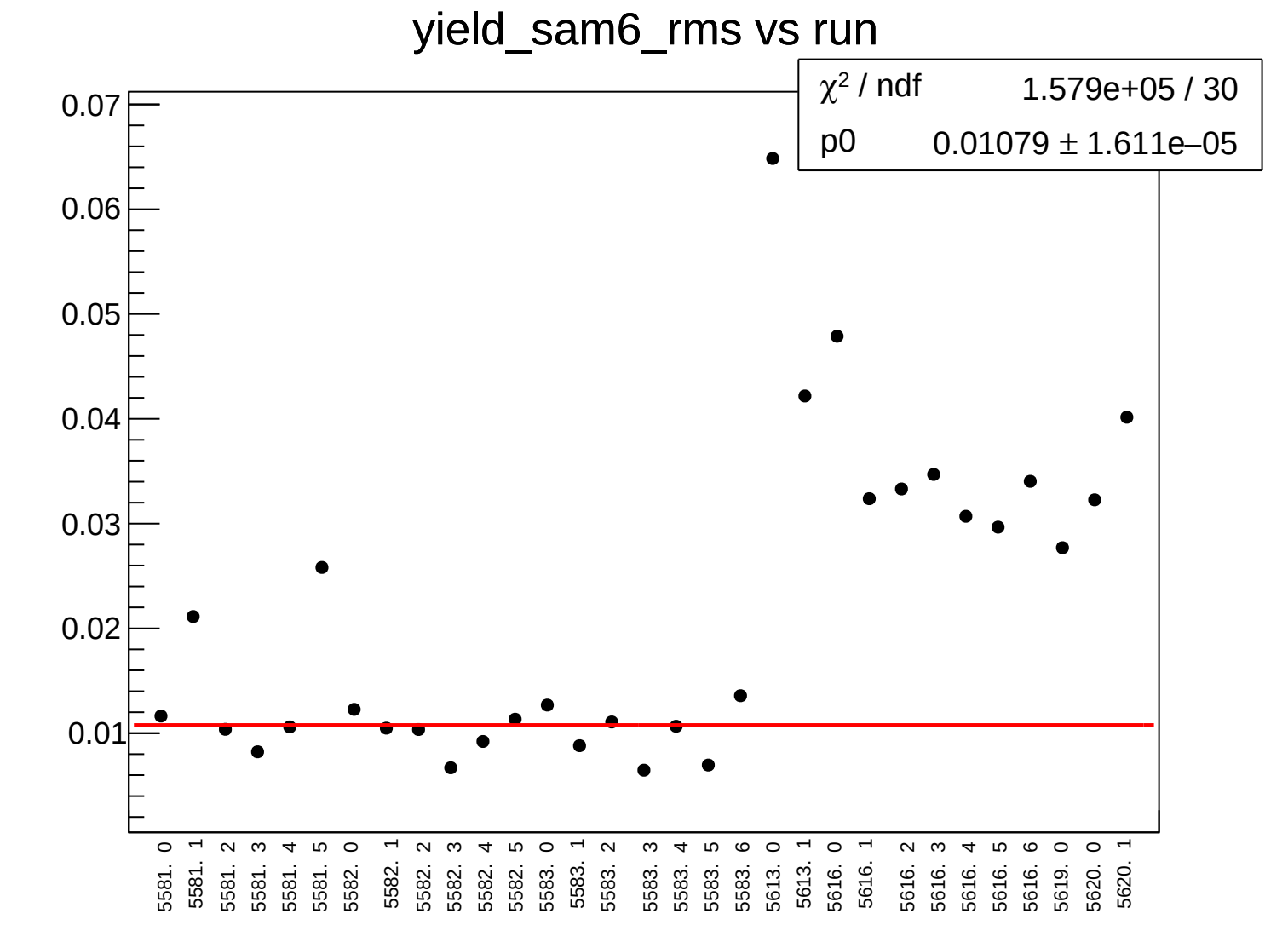

yield_sam5_mean vs run
χ² / ndf 2.959e+06 / 30
p0 20.88 ± 4.847e−05
21.15
21.1
21.05
21
20.95
20.9
20.85
20.8
20.75
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −13.08
Std Dev 20.21
800
600
400
200
0
−200
−400

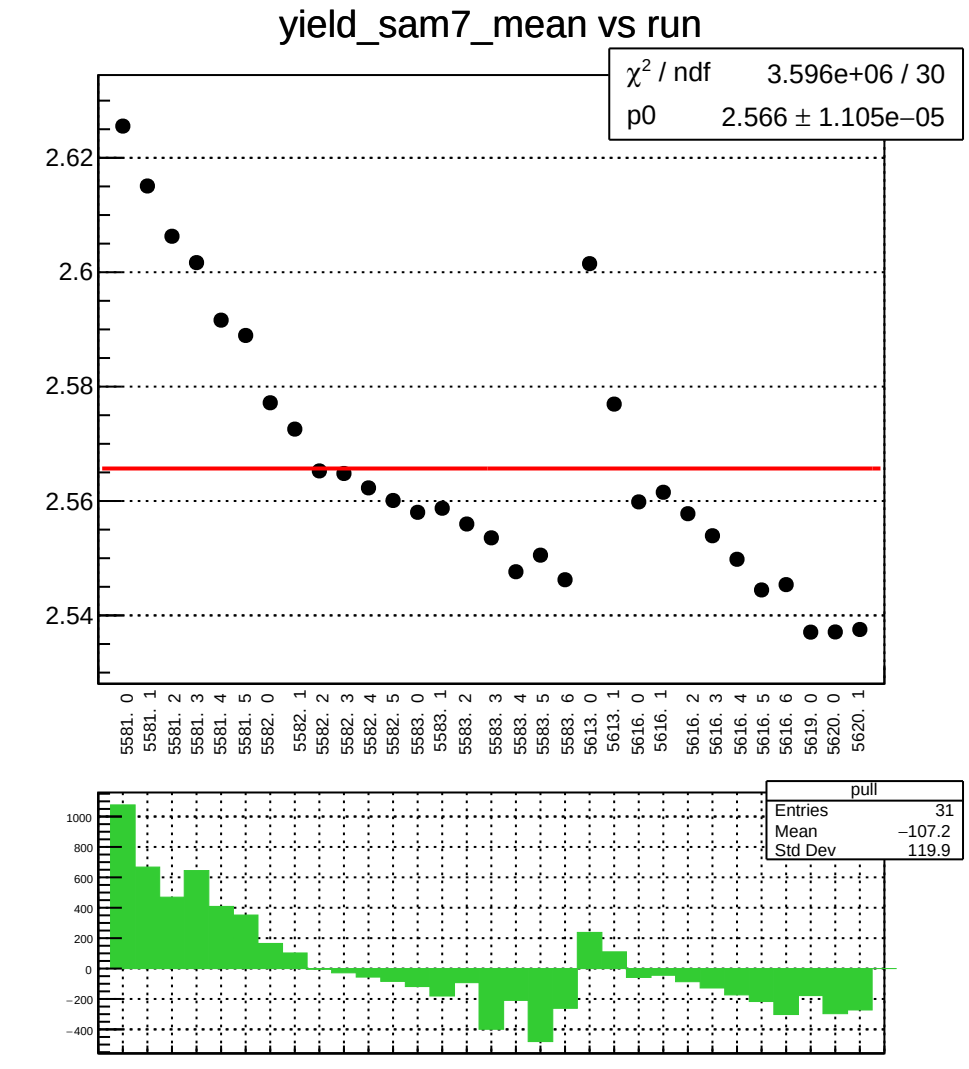

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

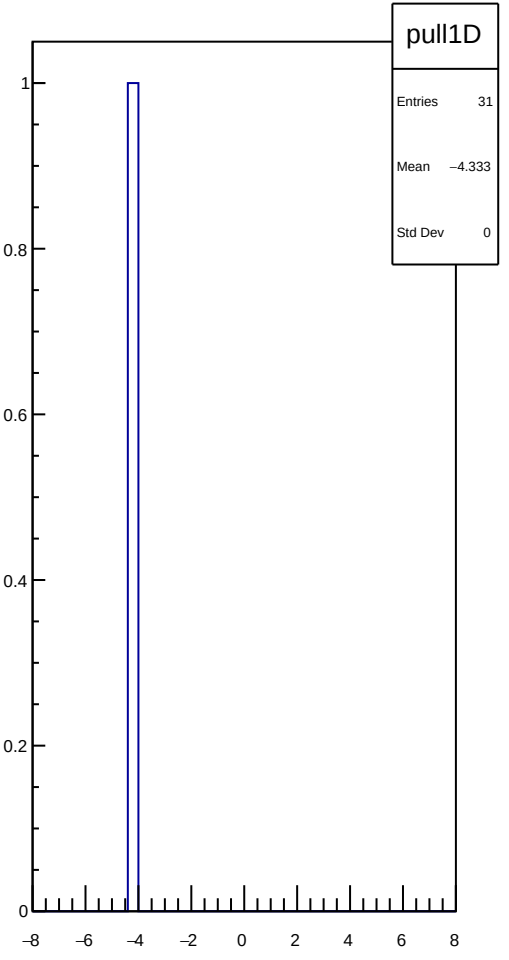

yield_sam5_rms vs run
χ² / ndf 1.81e+05 / 30
p0 0.02236 ± 3.427e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

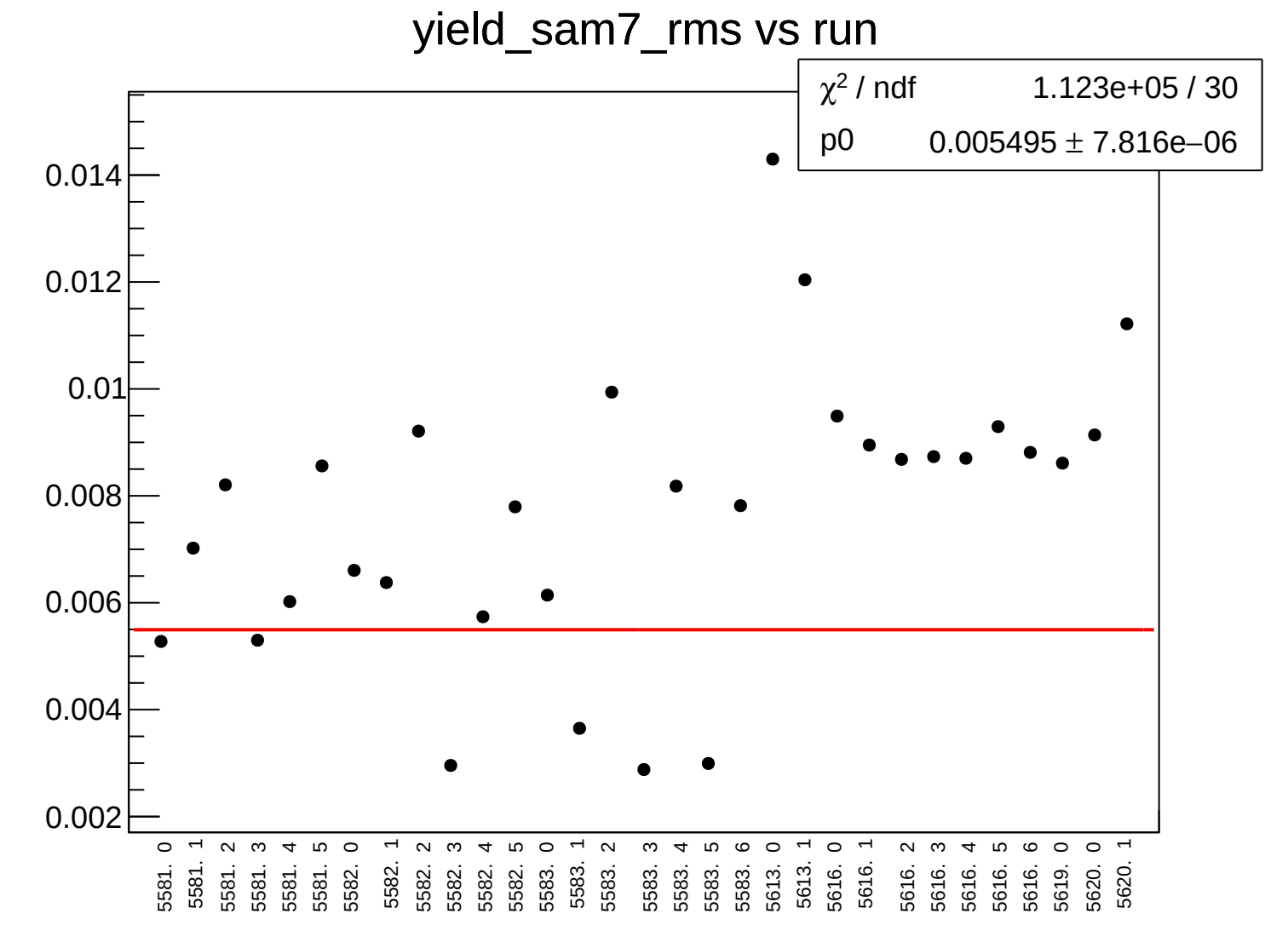

yield_sam6_mean vs run
χ² / ndf 6.335e+06 / 30
p0 10.59 ± 2.279e−05
10.7
10.65
10.6
10.55
10.5
10.45
10.4
10.35
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.43
Std Dev 27.22
800
600
400
200
0
−200
−400
−600
−800

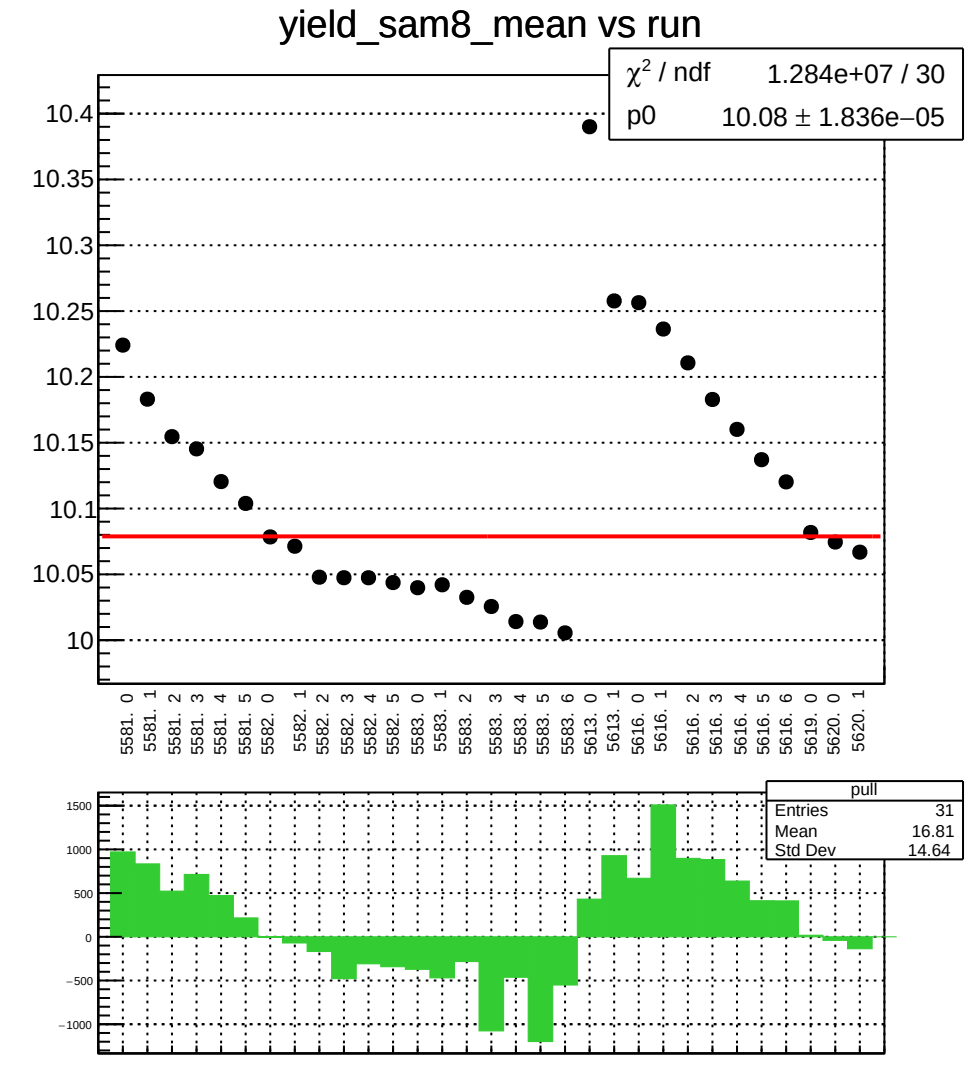

pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

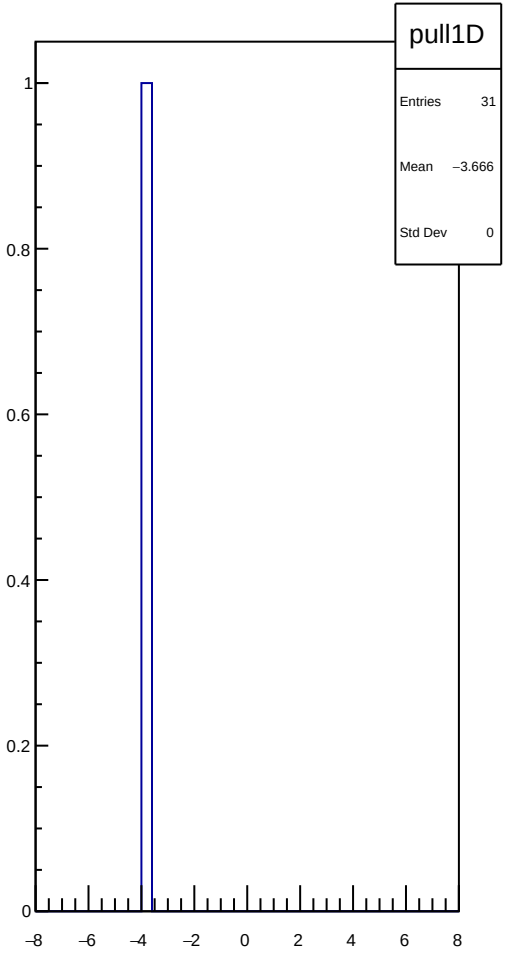

yield_sam6_rms vs run
χ² / ndf 1.579e+05 / 30
p0 0.01079 ± 1.611e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

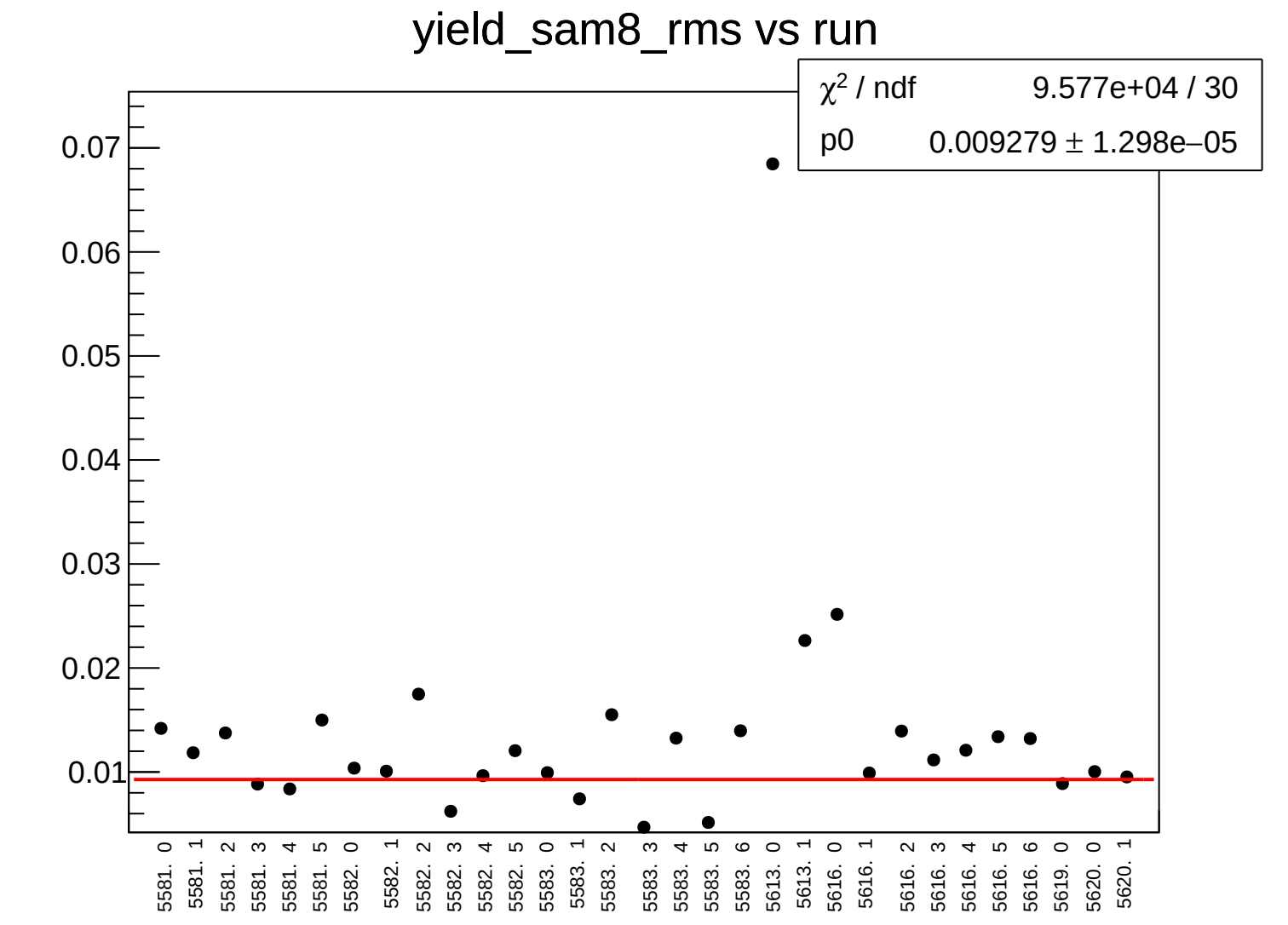

yield_sam7_mean vs run
χ² / ndf 3.596e+06 / 30
p0 2.566 ± 1.105e−05
2.62
2.6
2.58
2.56
2.54
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −107.2
Std Dev 119.9
1000
800
600
400
200
0
−200
−400

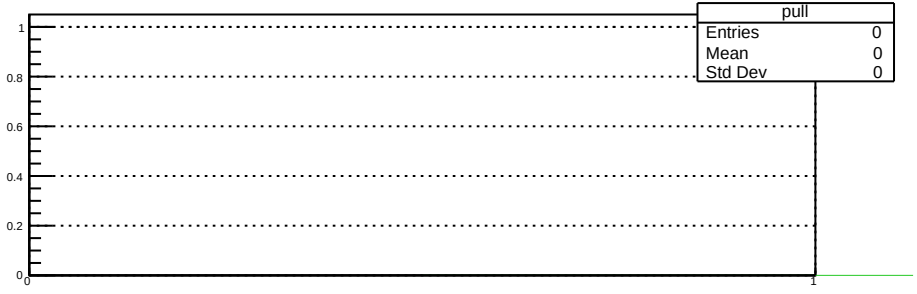

pull1D
Entries 31
Mean −4.333
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

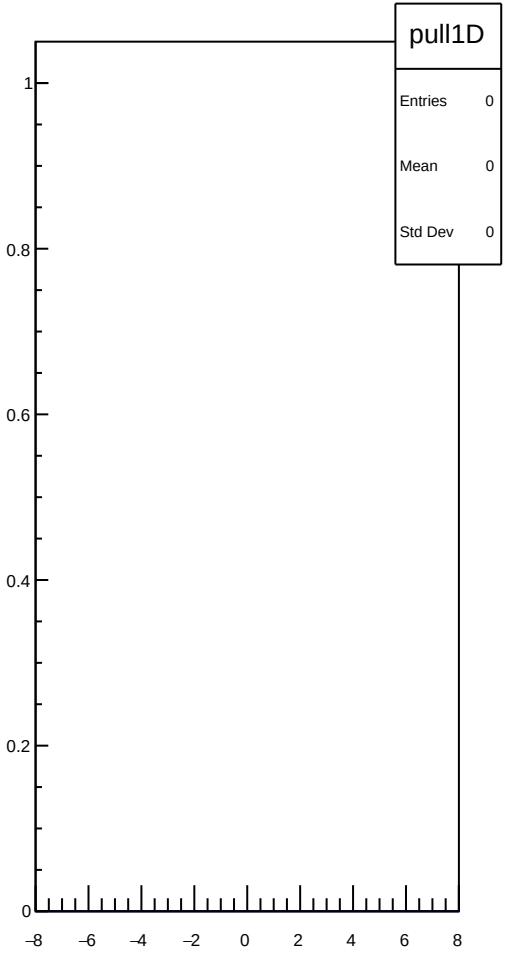

yield_sam7_rms vs run
χ² / ndf 1.123e+05 / 30
p0 0.005495 ± 7.816e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

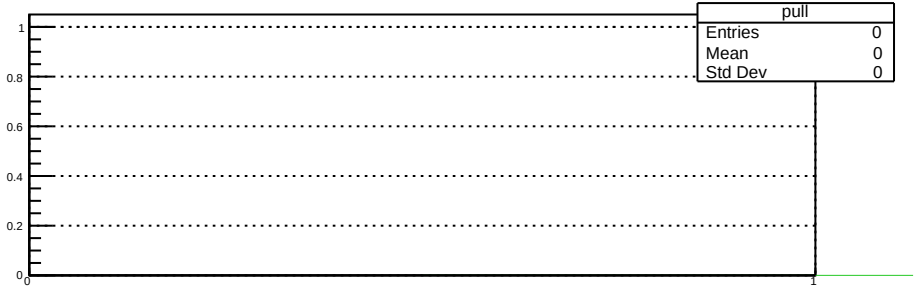

yield_sam8_mean vs run
χ² / ndf 1.284e+07 / 30
p0 10.08 ± 1.836e−05
10.4
10.35
10.3
10.25
10.2
10.15
10.1
10.05
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.81
Std Dev 14.64
1500
1000
500
0
−500
−1000

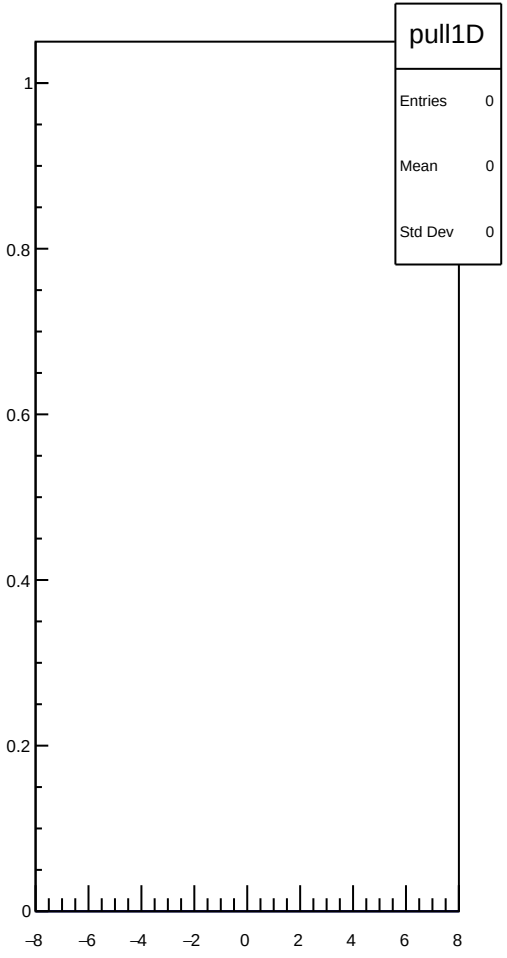

pull1D
Entries 31
Mean −3.666
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

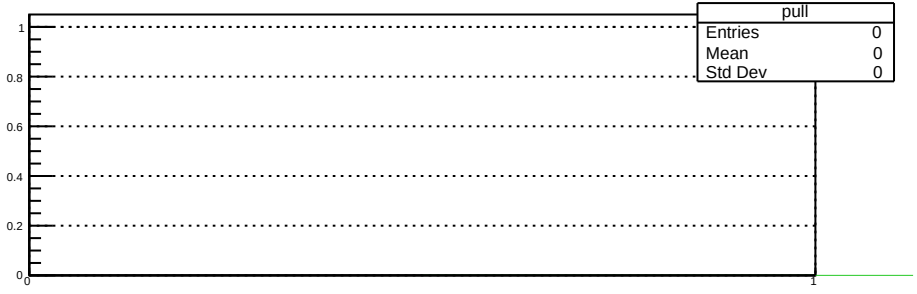

yield_sam8_rms vs run
χ² / ndf 9.577e+04 / 30
p0 0.009279 ± 1.298e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

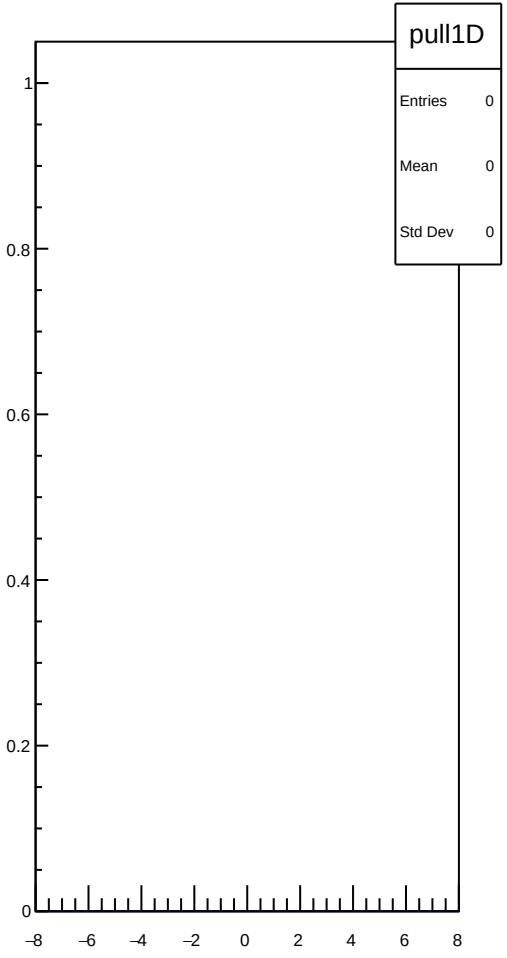

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

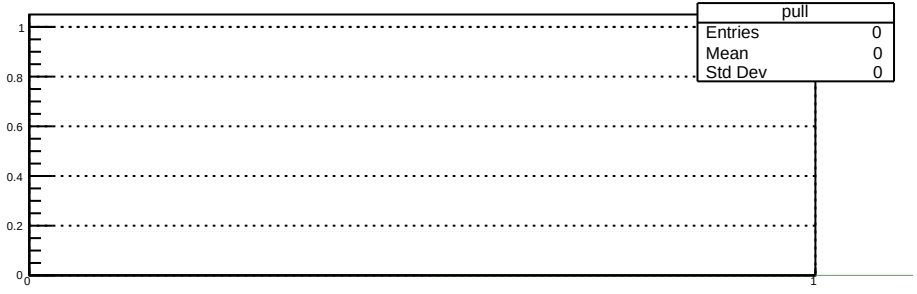

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

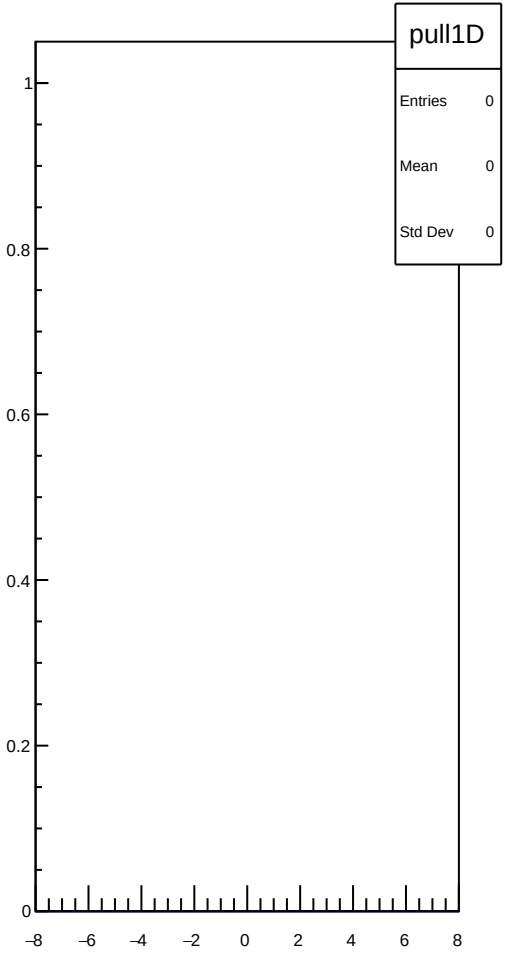

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


pull1D
Entries 0
Mean 0
Std Dev 0
1
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0.6
0.4
0.2
0
–8
–6
–4
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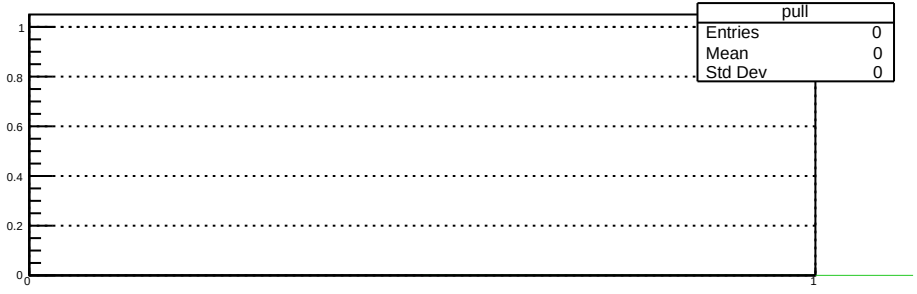
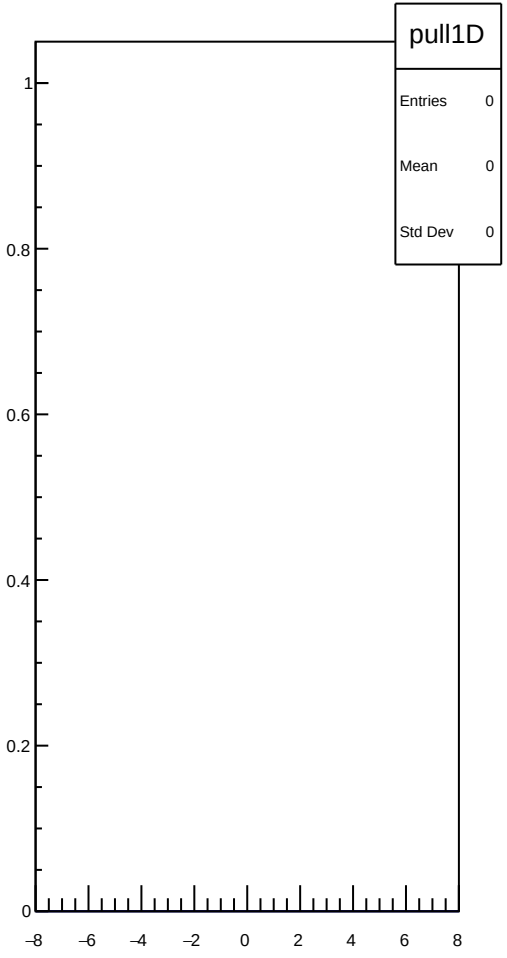
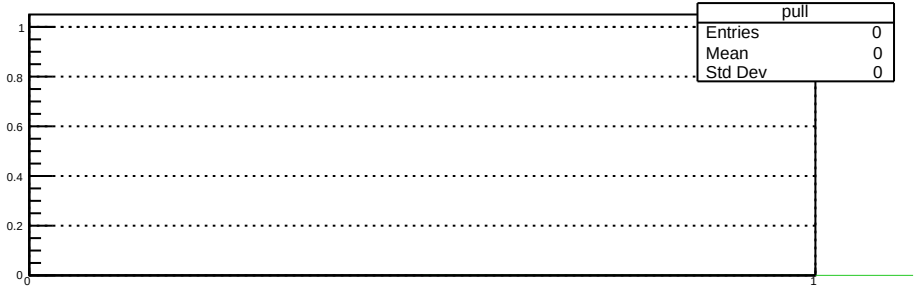
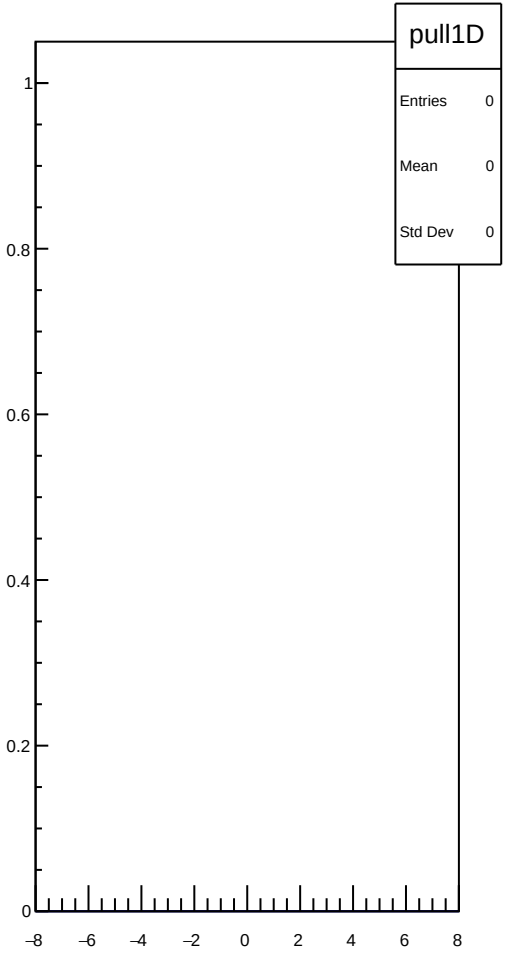
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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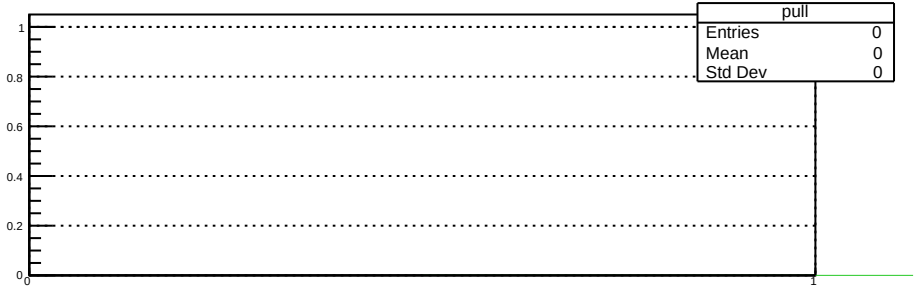
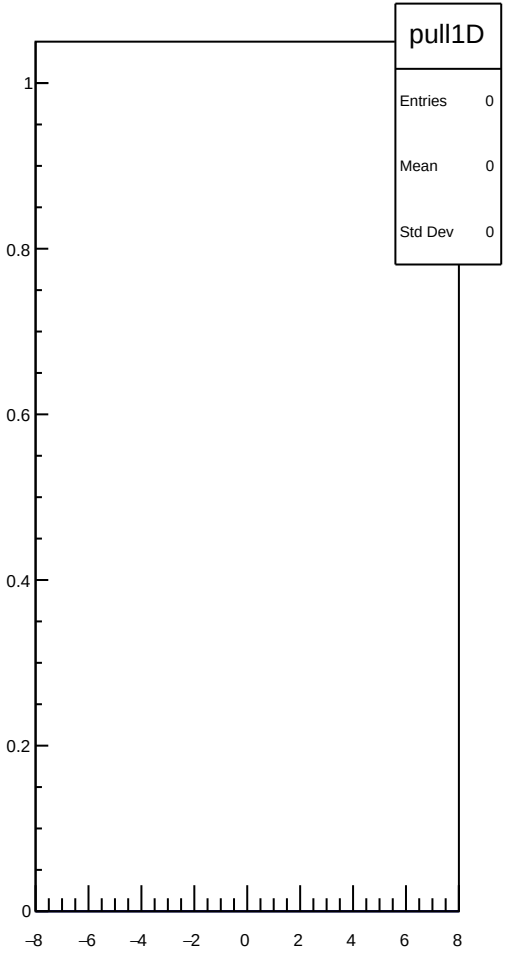
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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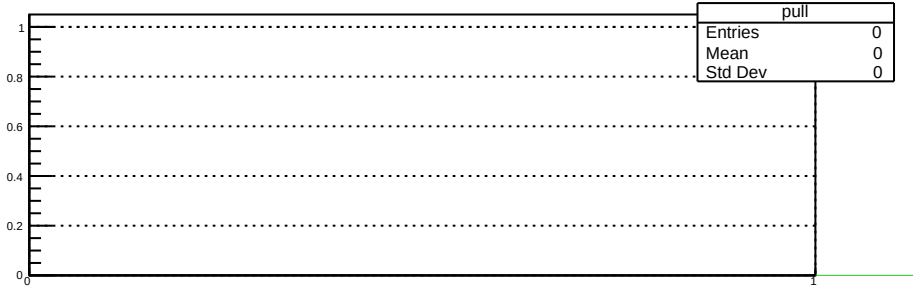
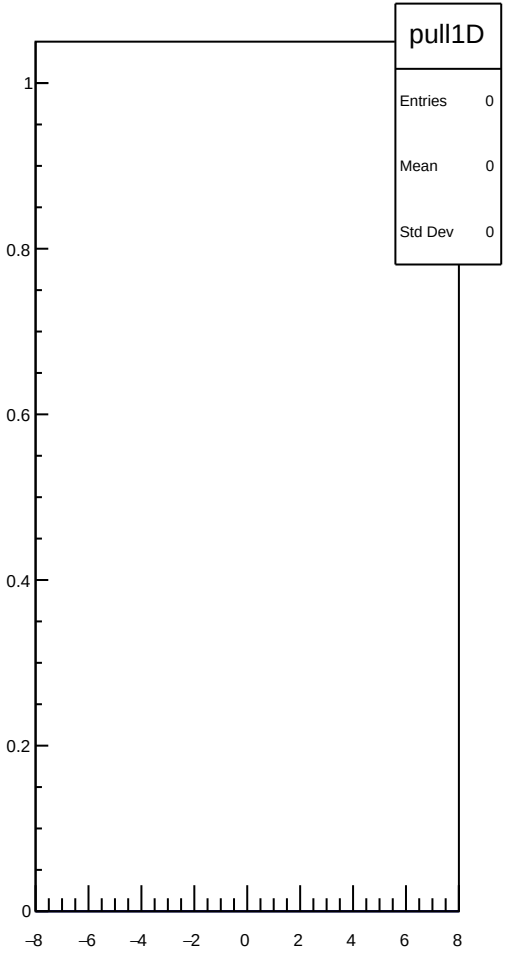
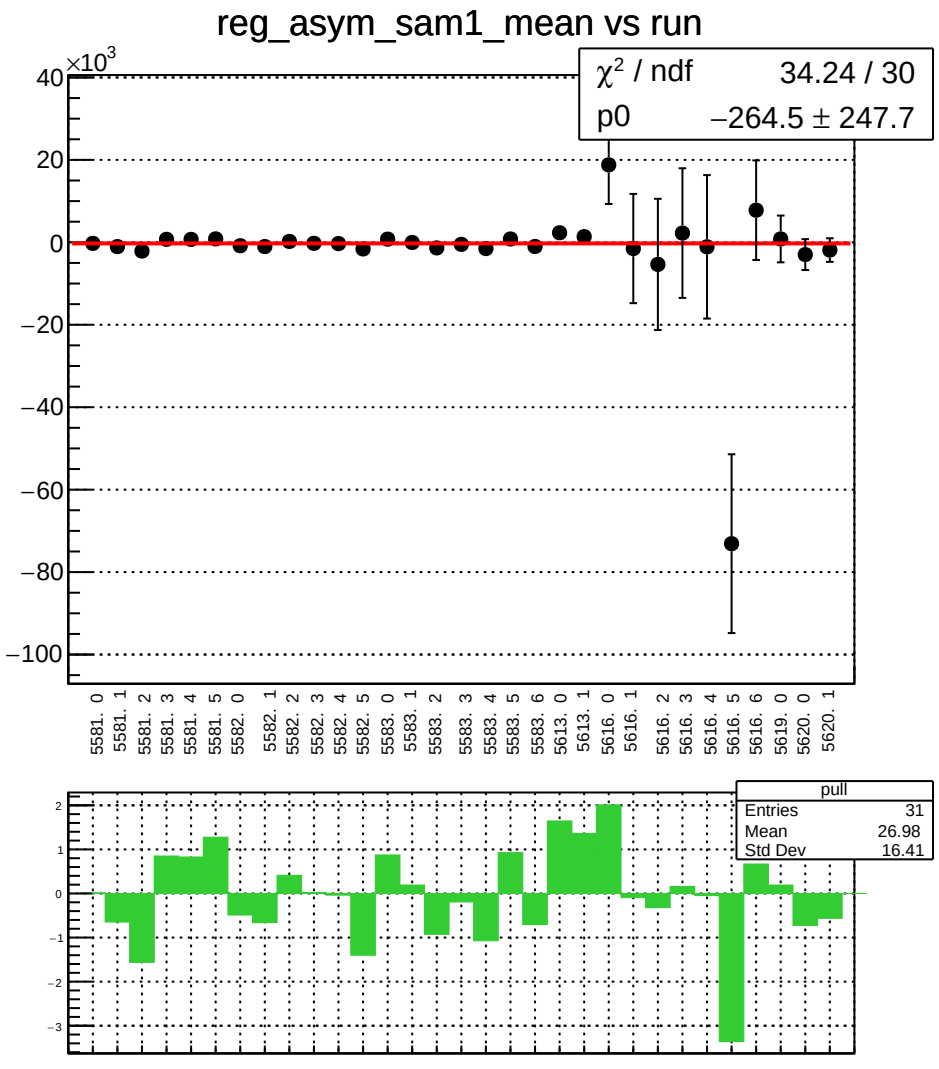
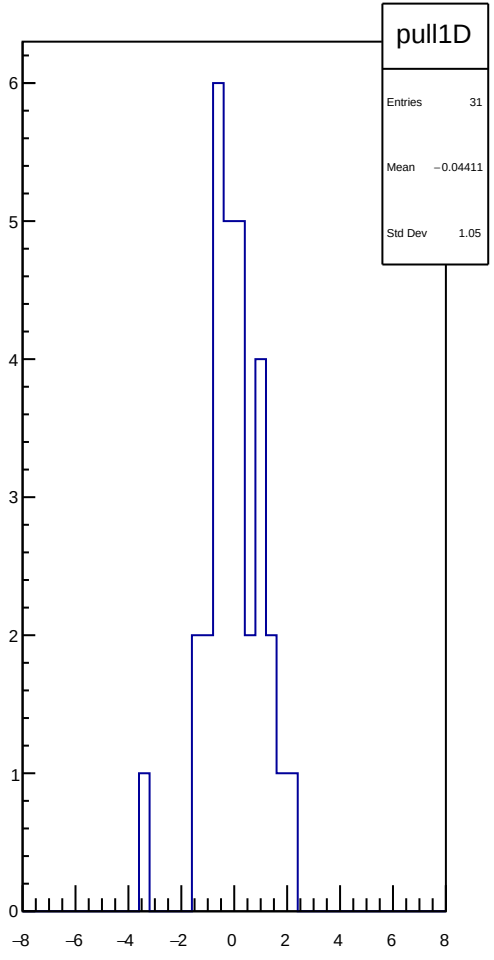
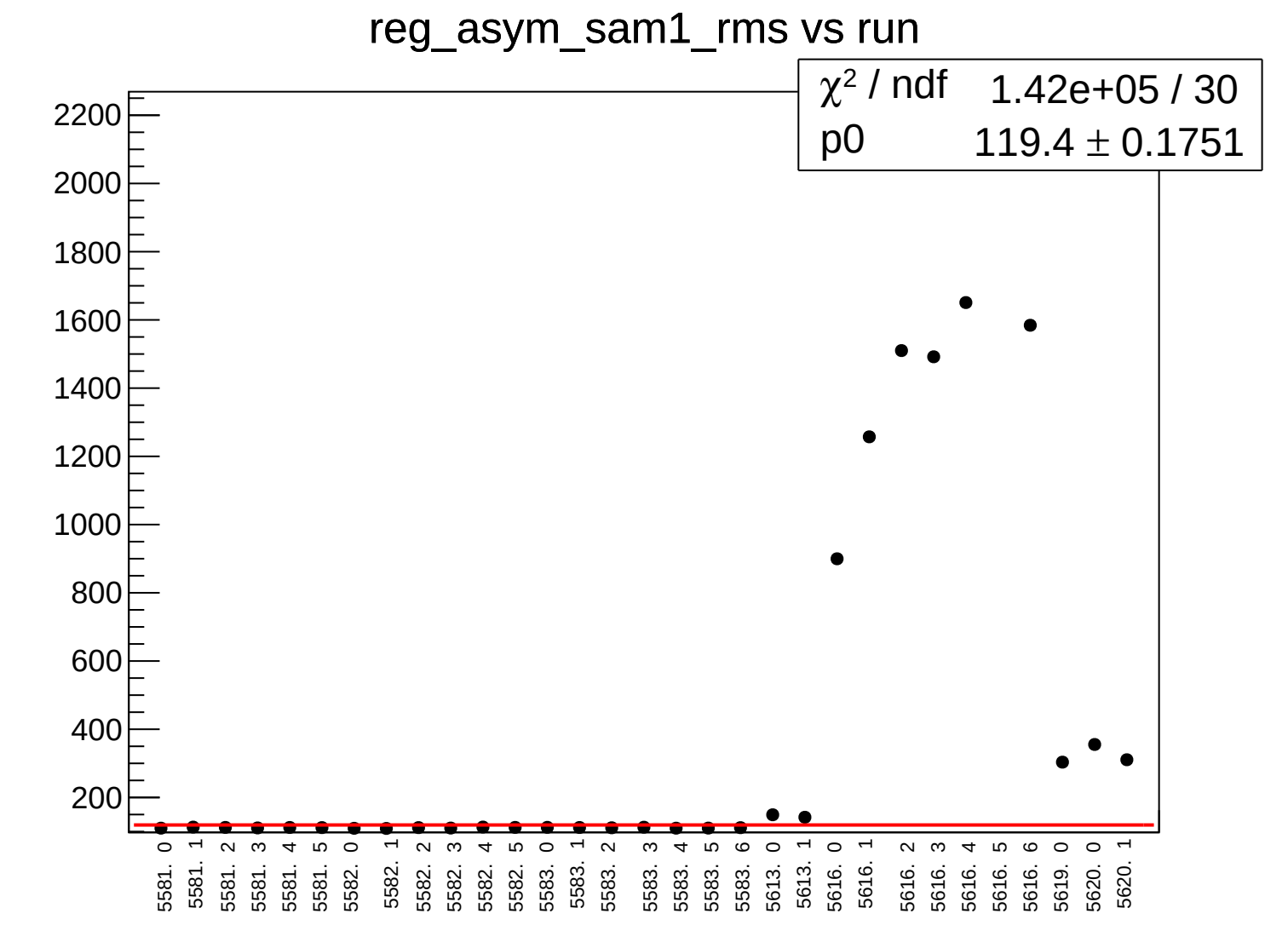
2
4
6
8

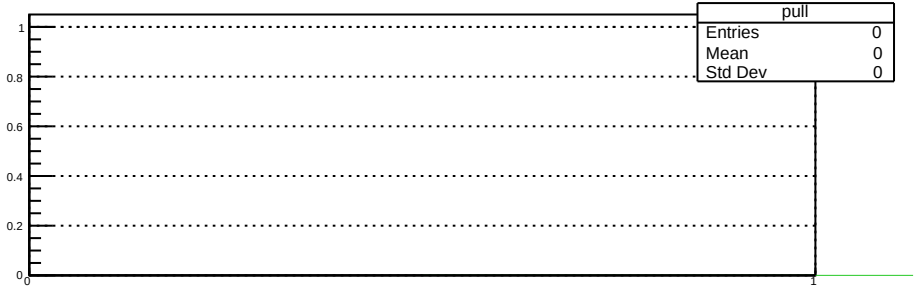

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

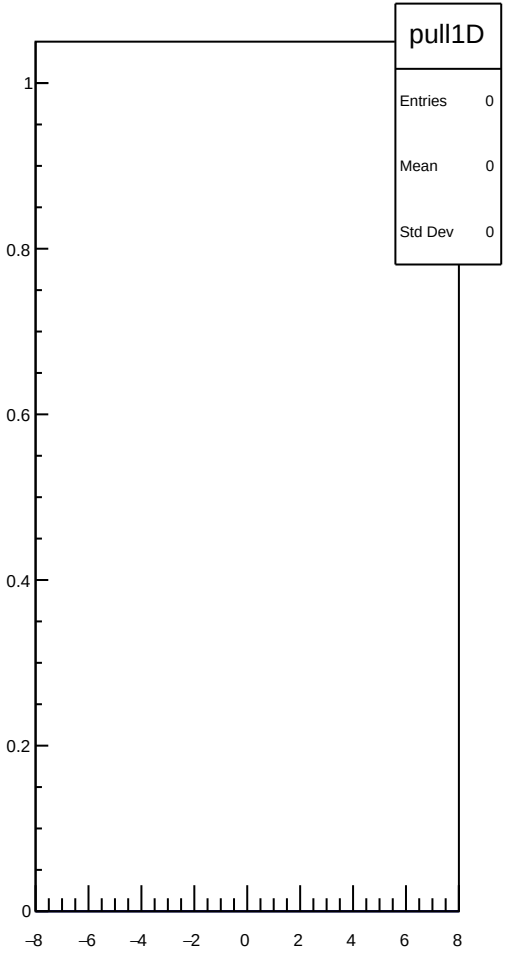

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

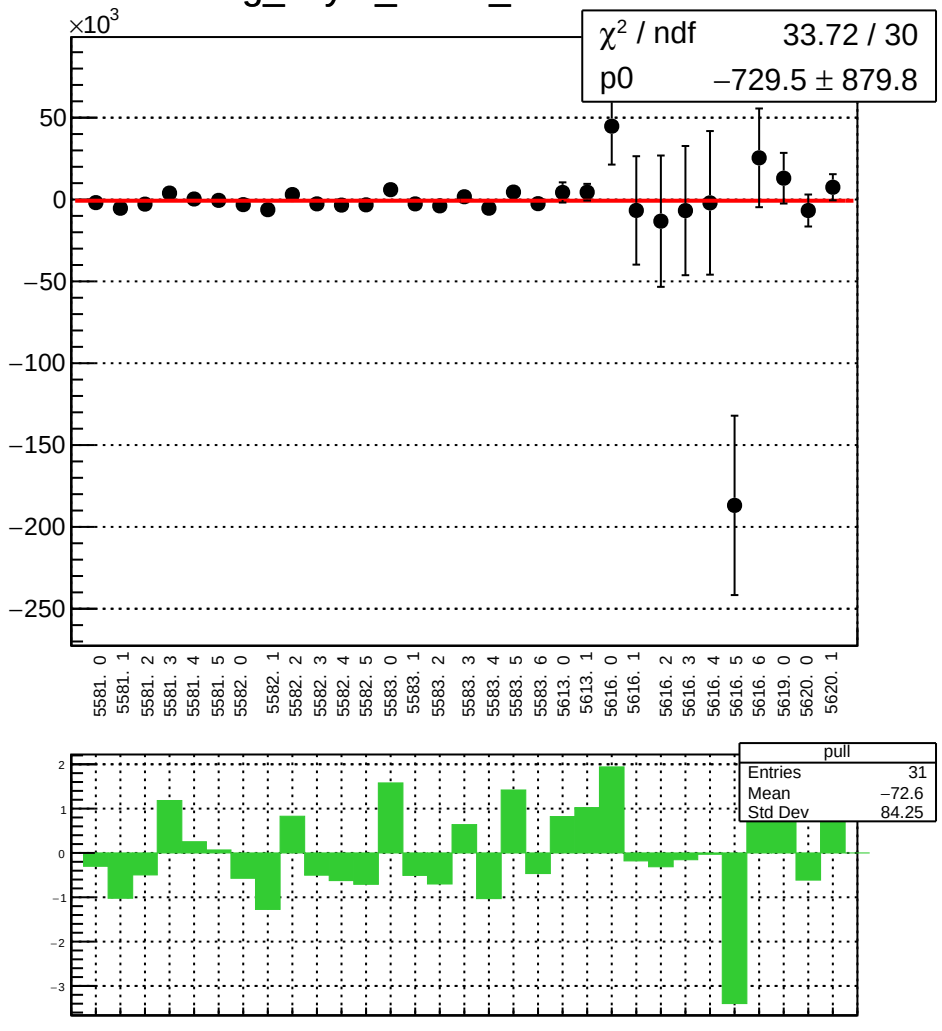

reg_asym_sam1_mean vs run
×10^3
χ² / ndf 34.24 / 30
p0 −264.5 ± 247.7
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 26.98
Std Dev 16.41
2
1
0
−1
−2
−3

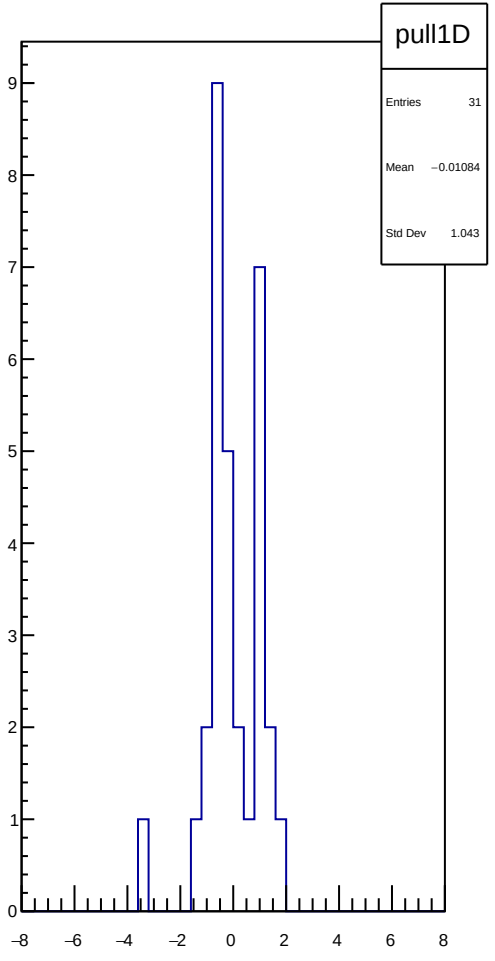

pull1D
Entries 31
Mean −0.04411
Std Dev 1.05
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

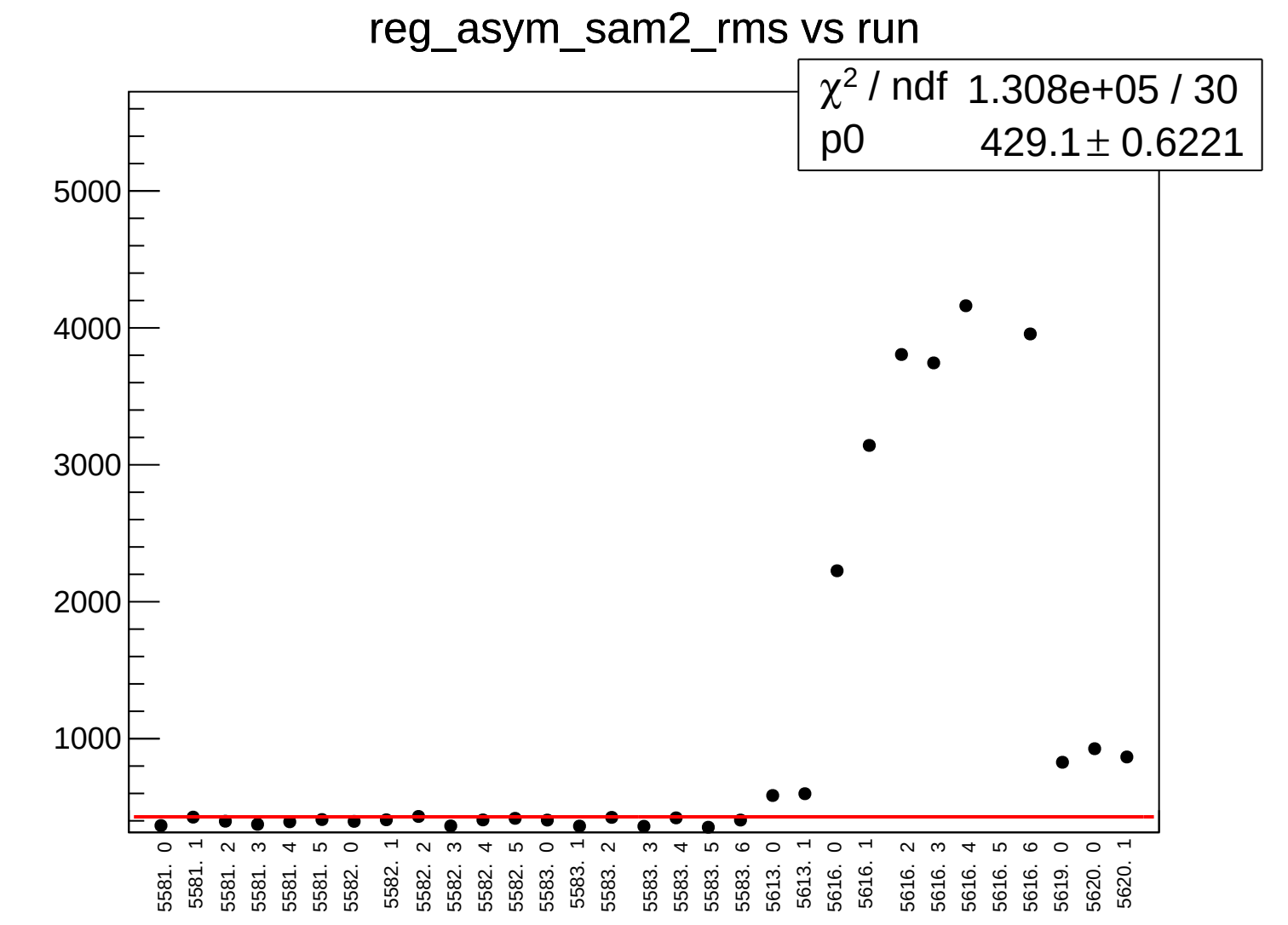

reg_asym_sam1_rms vs run
χ² / ndf 1.42e+05 / 30
p0 119.4 ± 0.1751
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

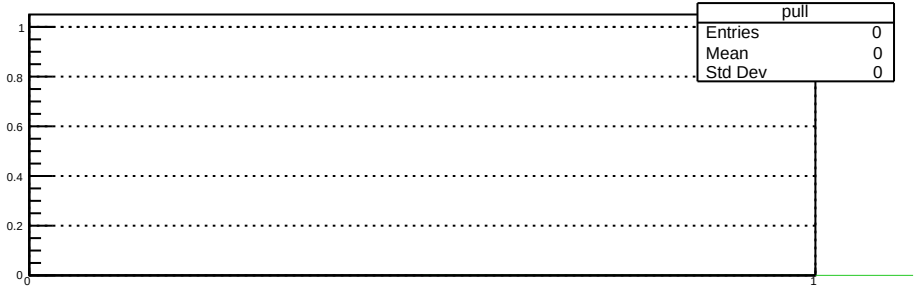

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

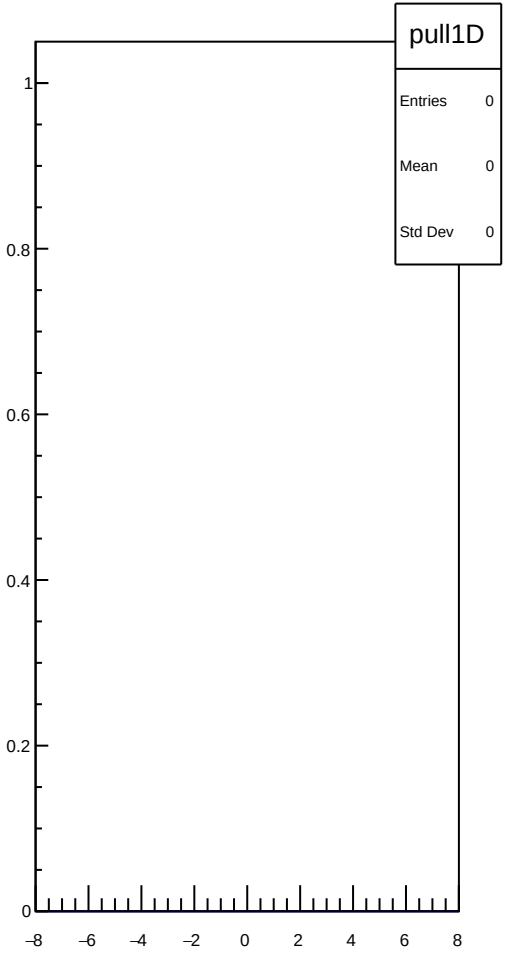

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

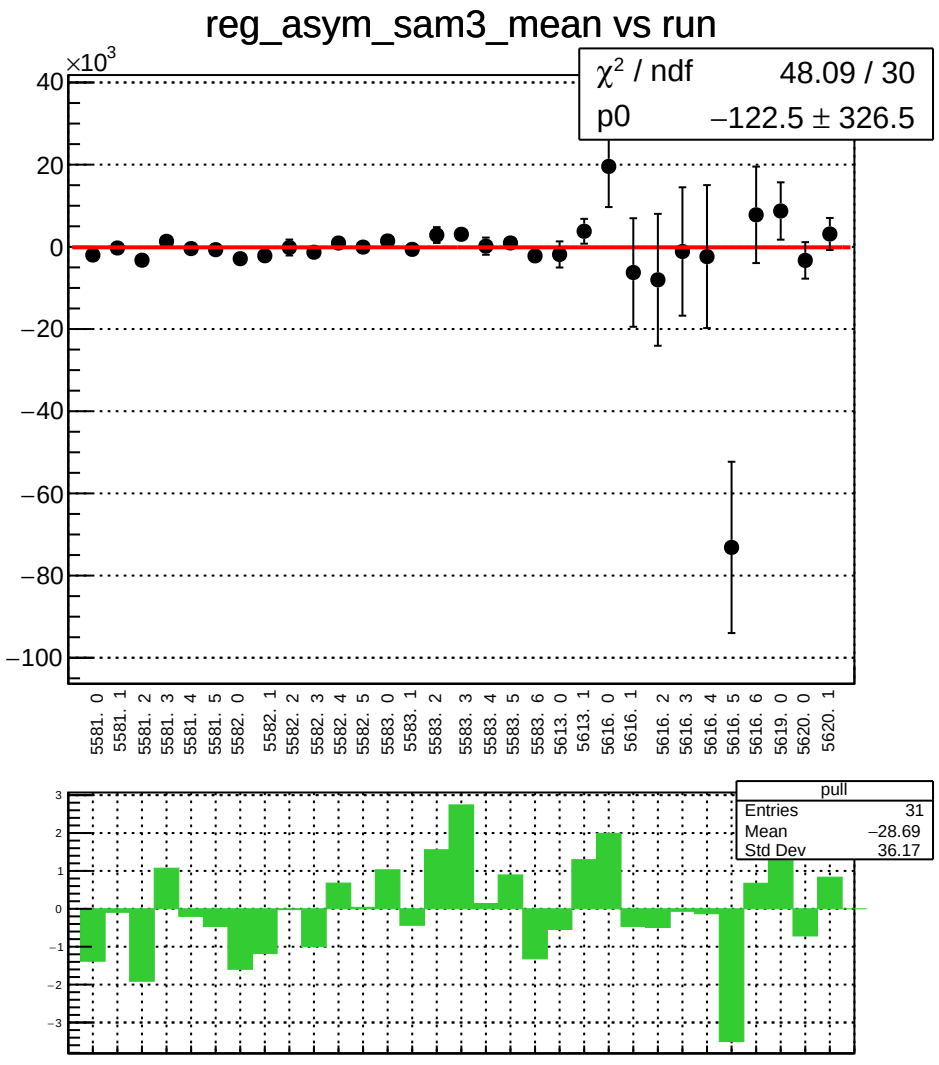

reg_asym_sam2_mean vs run
×10^3
χ² / ndf 33.72 / 30
p0 −729.5 ± 879.8
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −72.6
Std Dev 84.25
2
1
0
−1
−2
−3

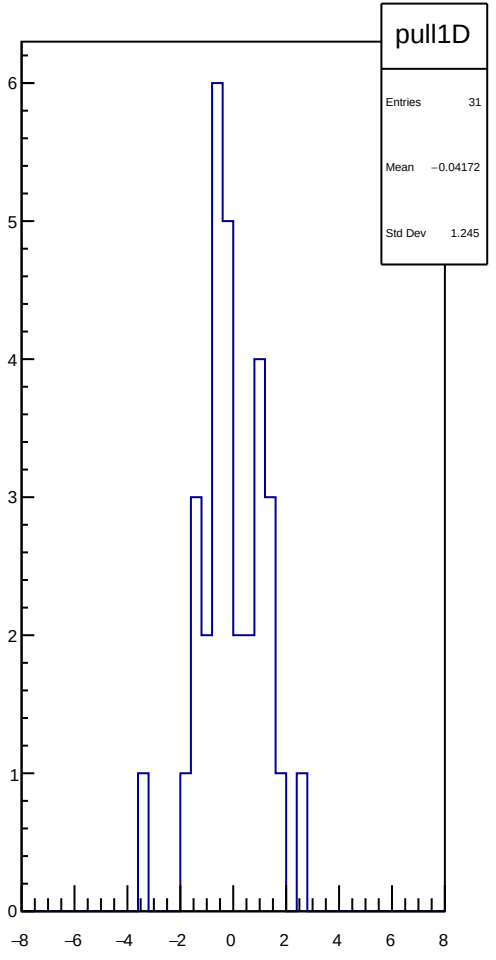

pull1D
Entries 31
Mean −0.01084
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

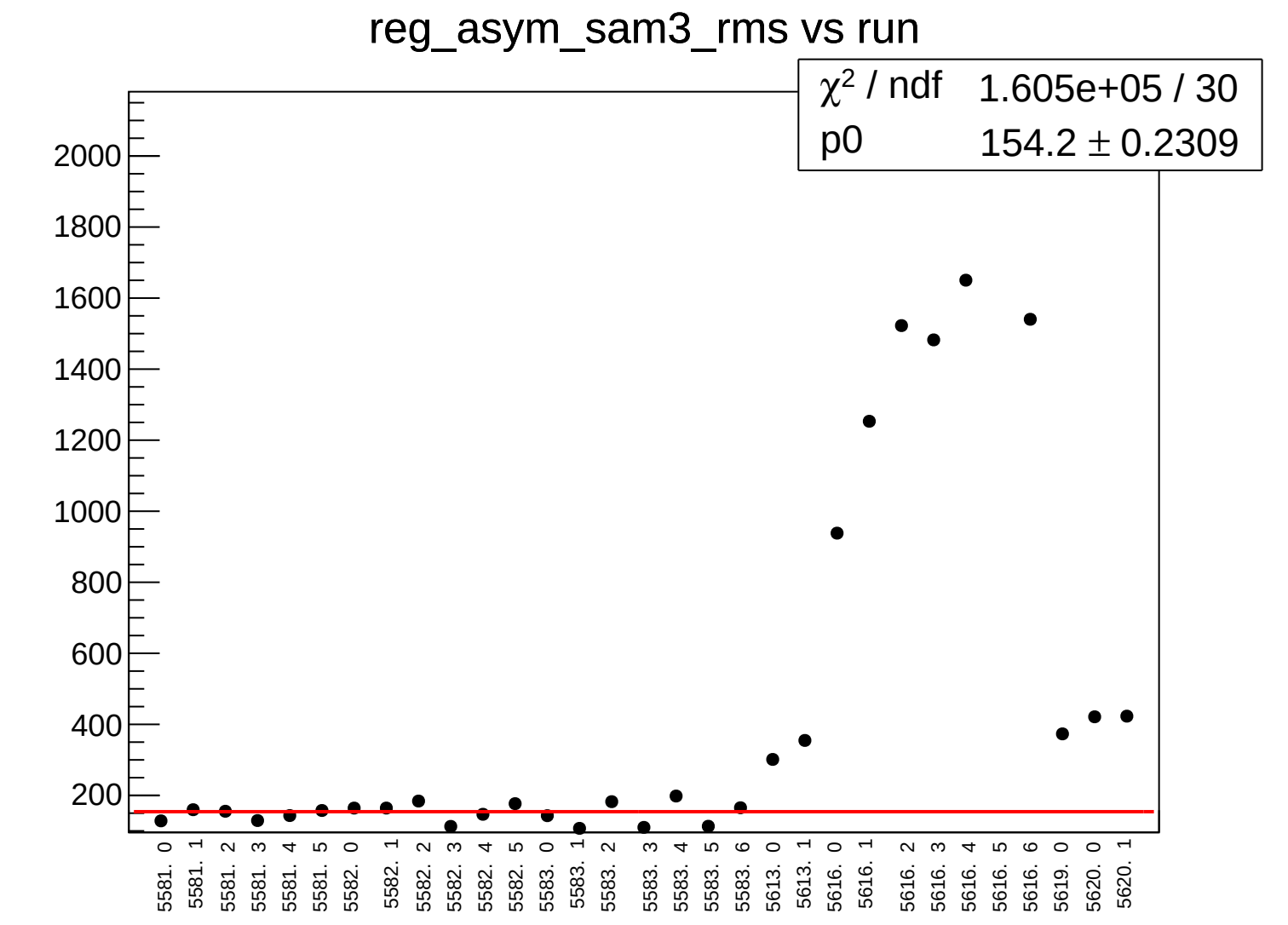

reg_asym_sam2_rms vs run
χ² / ndf 1.308e+05 / 30
p0 429.1 ± 0.6221
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

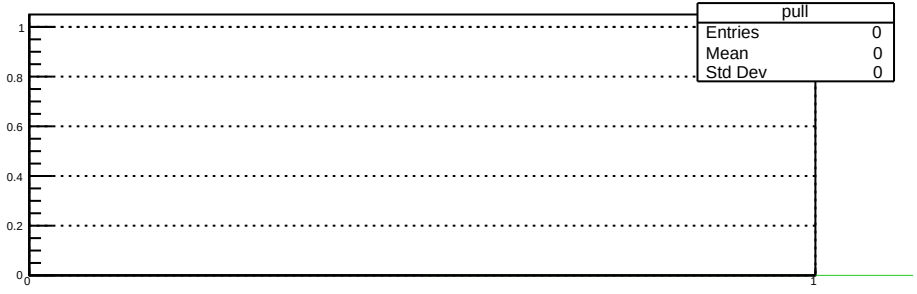

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

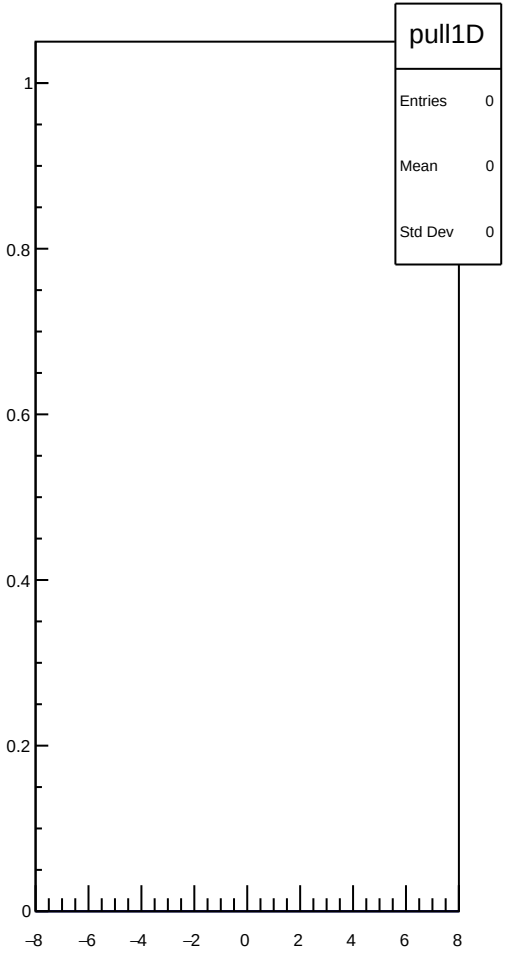

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

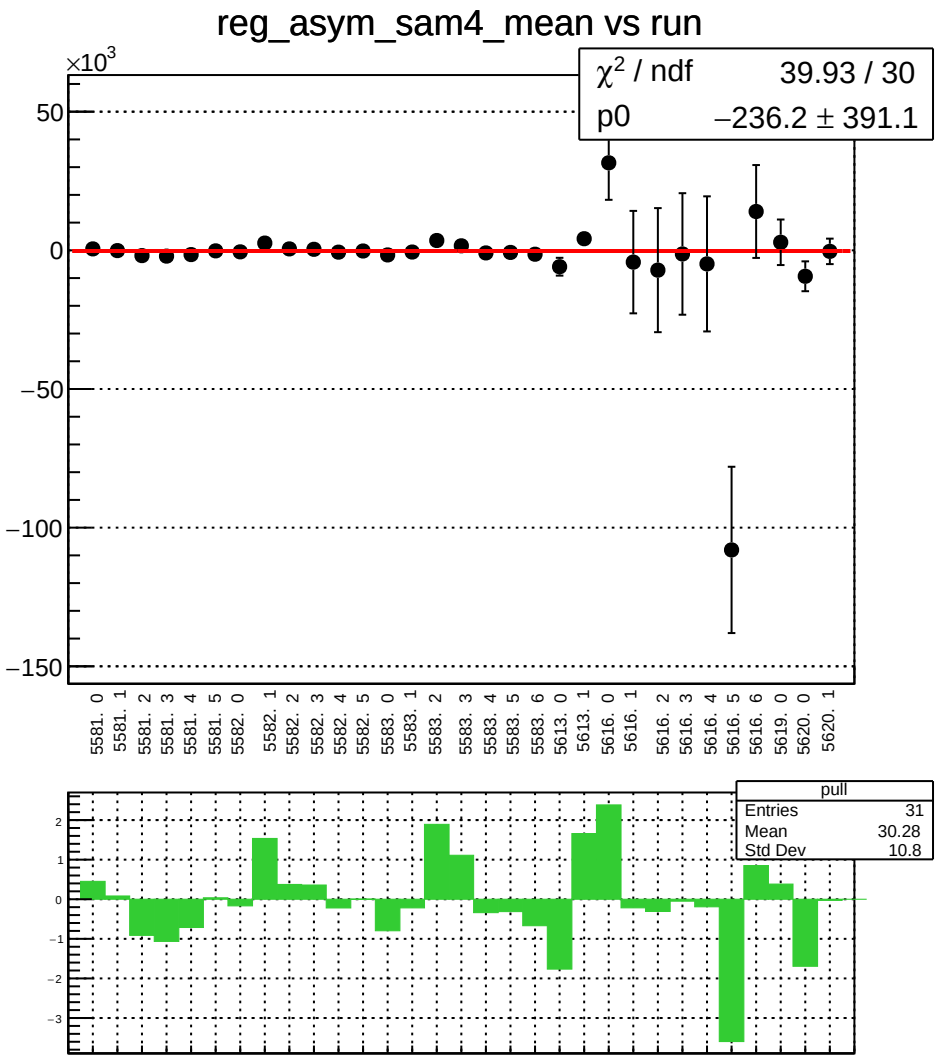

reg_asym_sam3_mean vs run
×10^3
χ² / ndf 48.09 / 30
p0 −122.5 ± 326.5
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −28.69
Std Dev 36.17
3
2
1
0
−1
−2
−3

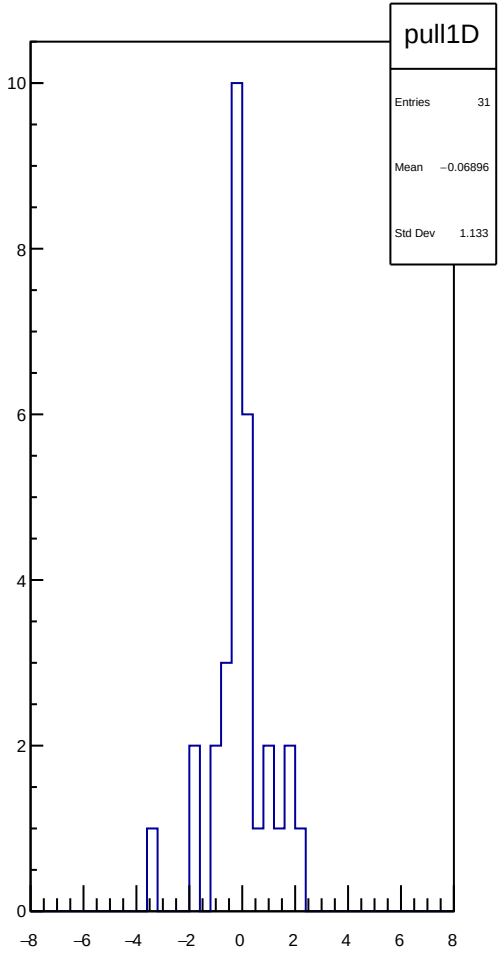

pull1D
Entries 31
Mean −0.04172
Std Dev 1.245
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

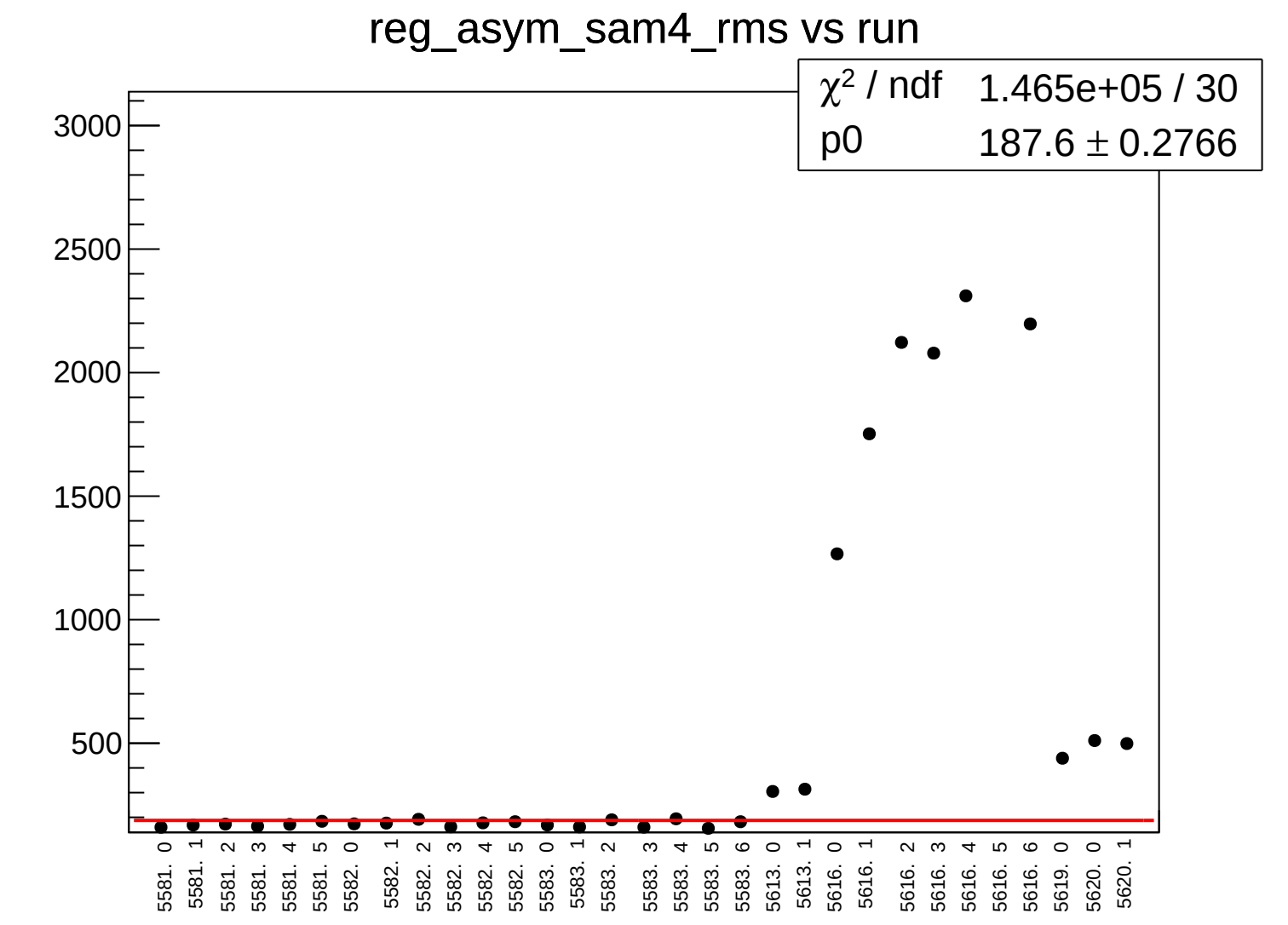

reg_asym_sam3_rms vs run
χ² / ndf 1.605e+05 / 30
p0 154.2 ± 0.2309
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

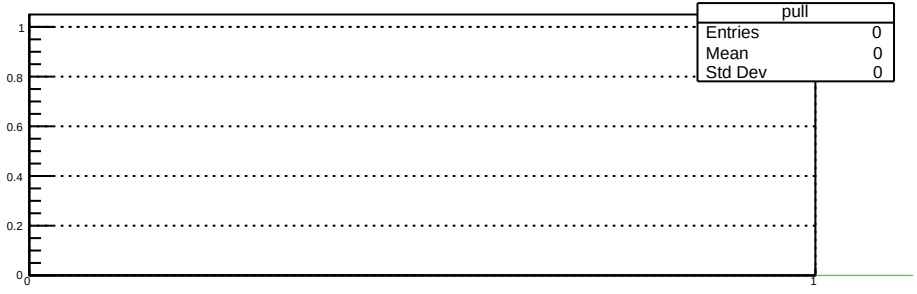

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

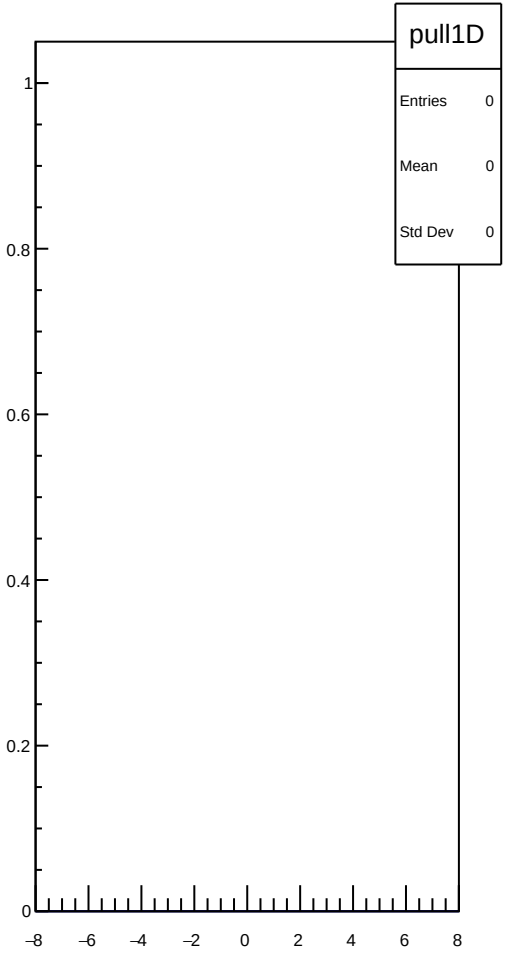

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

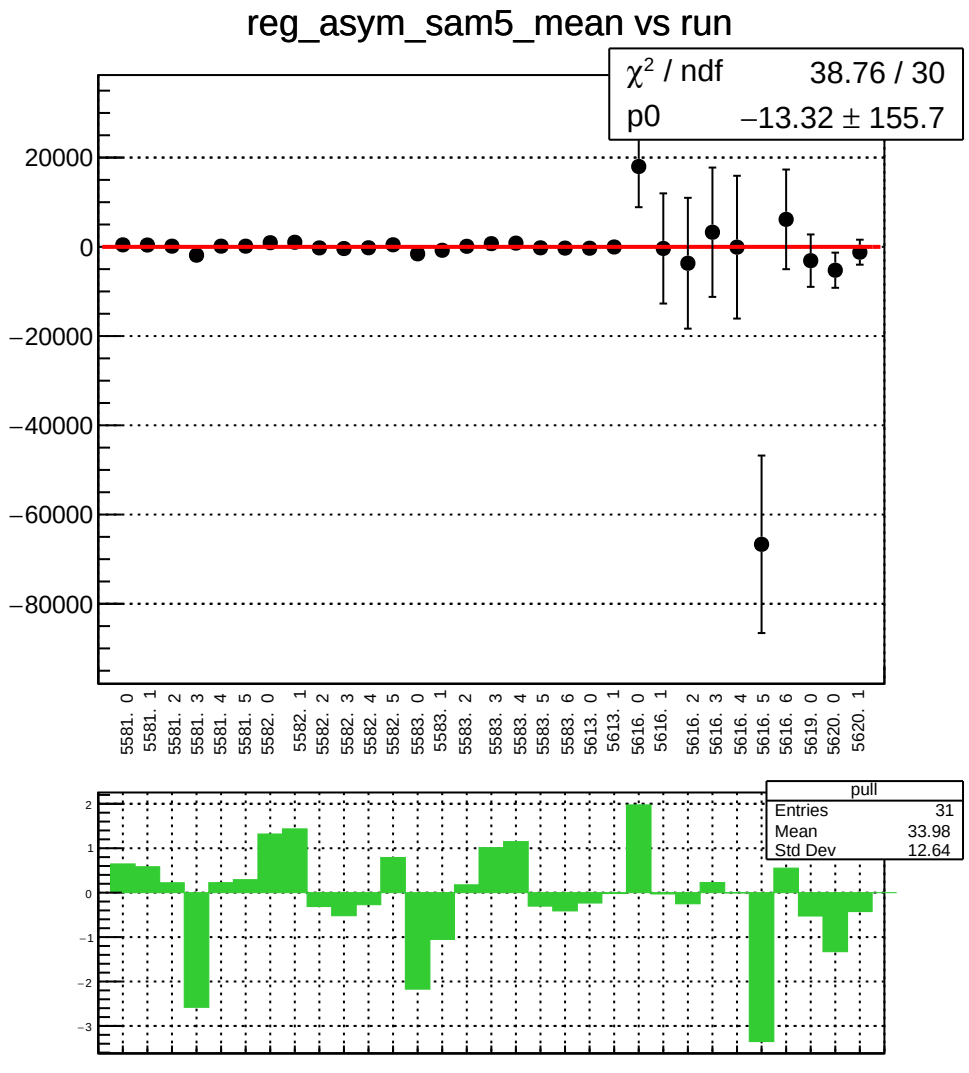

reg_asym_sam4_mean vs run
×10^3
χ^2 / ndf 39.93 / 30
p0 −236.2 ± 391.1
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.28
Std Dev 10.8
2
1
0
−1
−2
−3

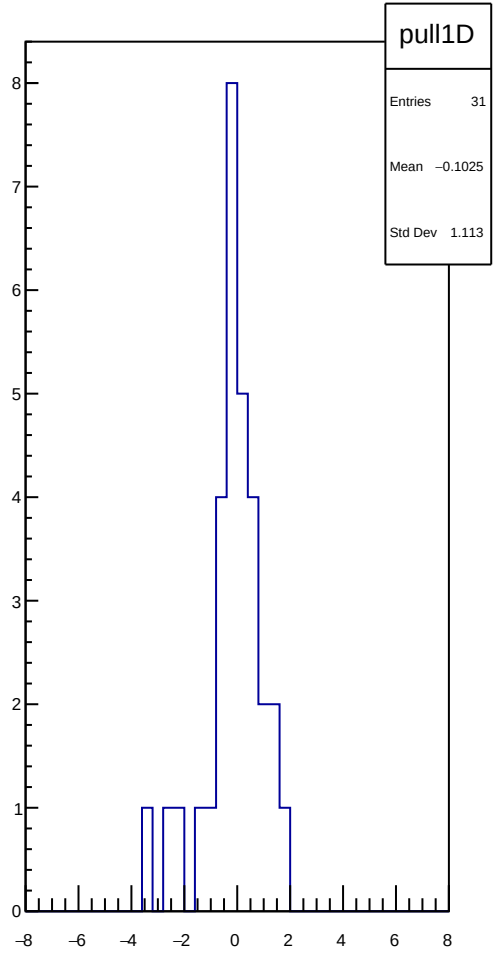

pull1D
Entries 31
Mean −0.06896
Std Dev 1.133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

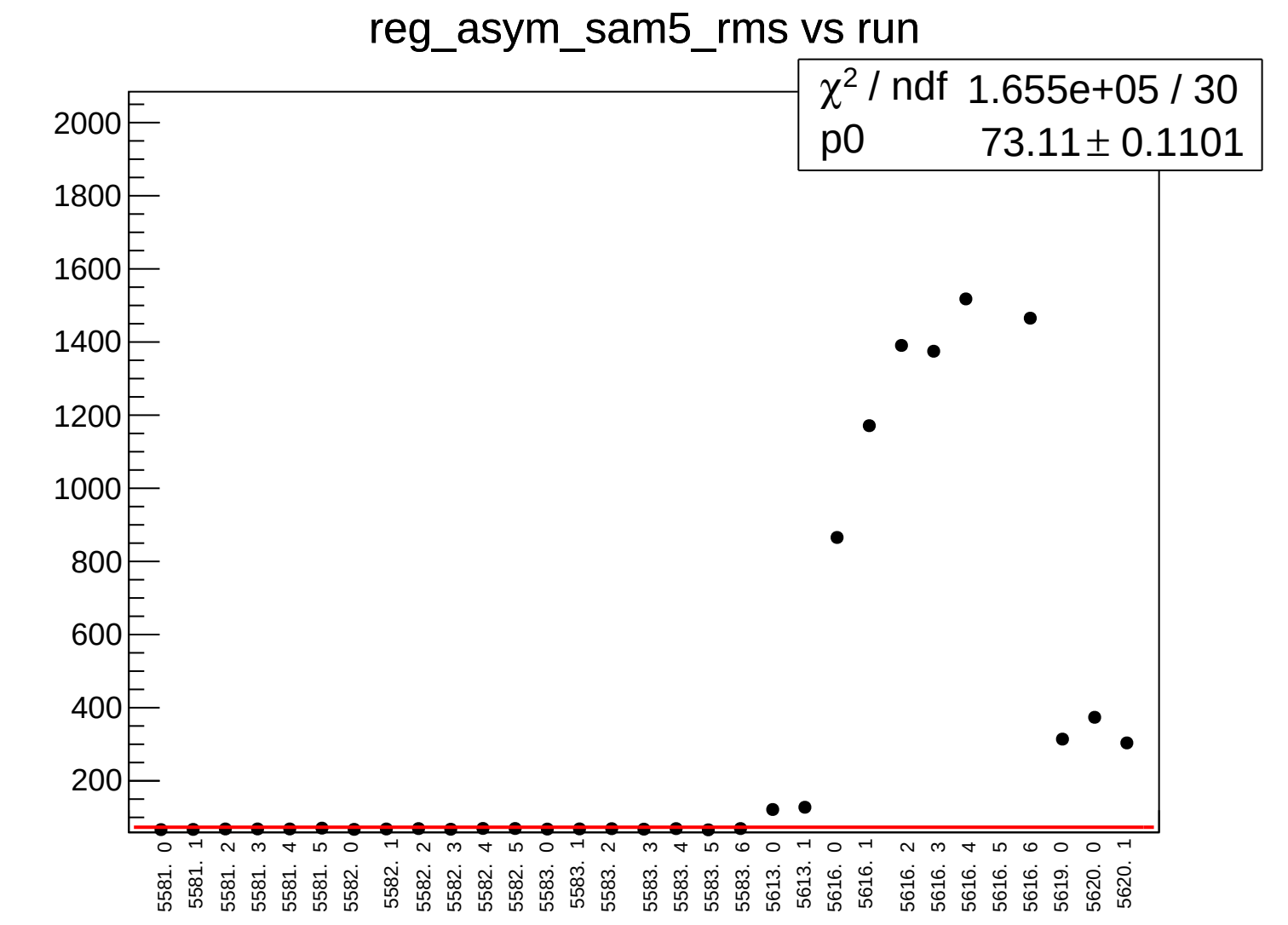

reg_asym_sam4_rms vs run
χ² / ndf 1.465e+05 / 30
p0 187.6 ± 0.2766
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

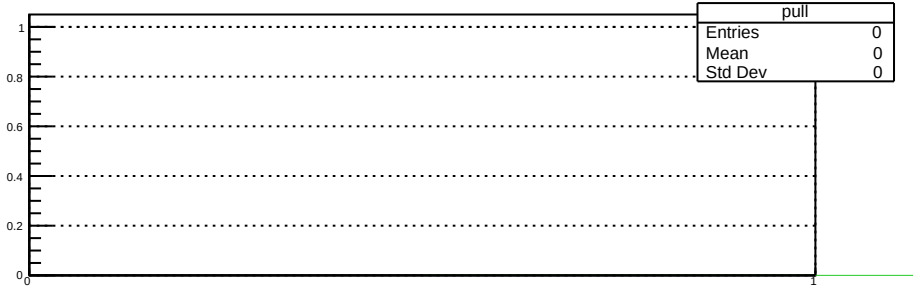

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

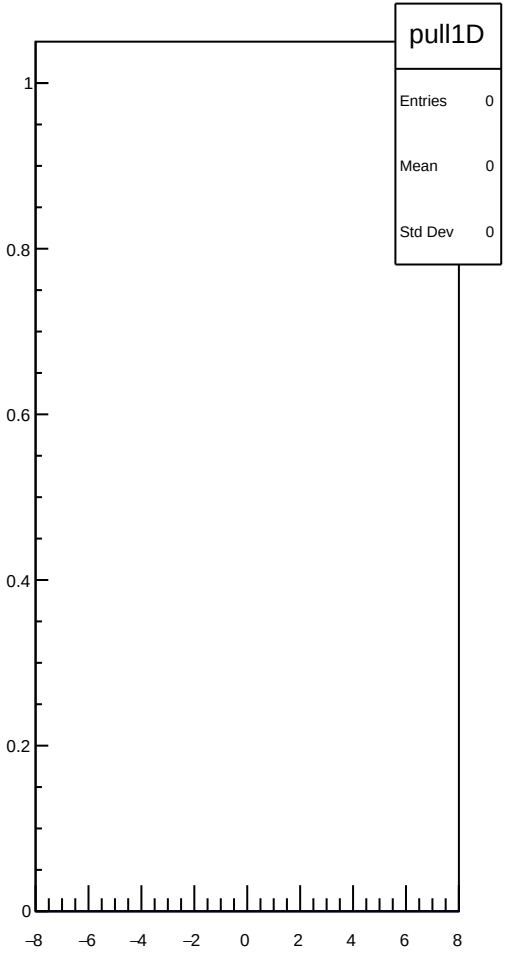

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

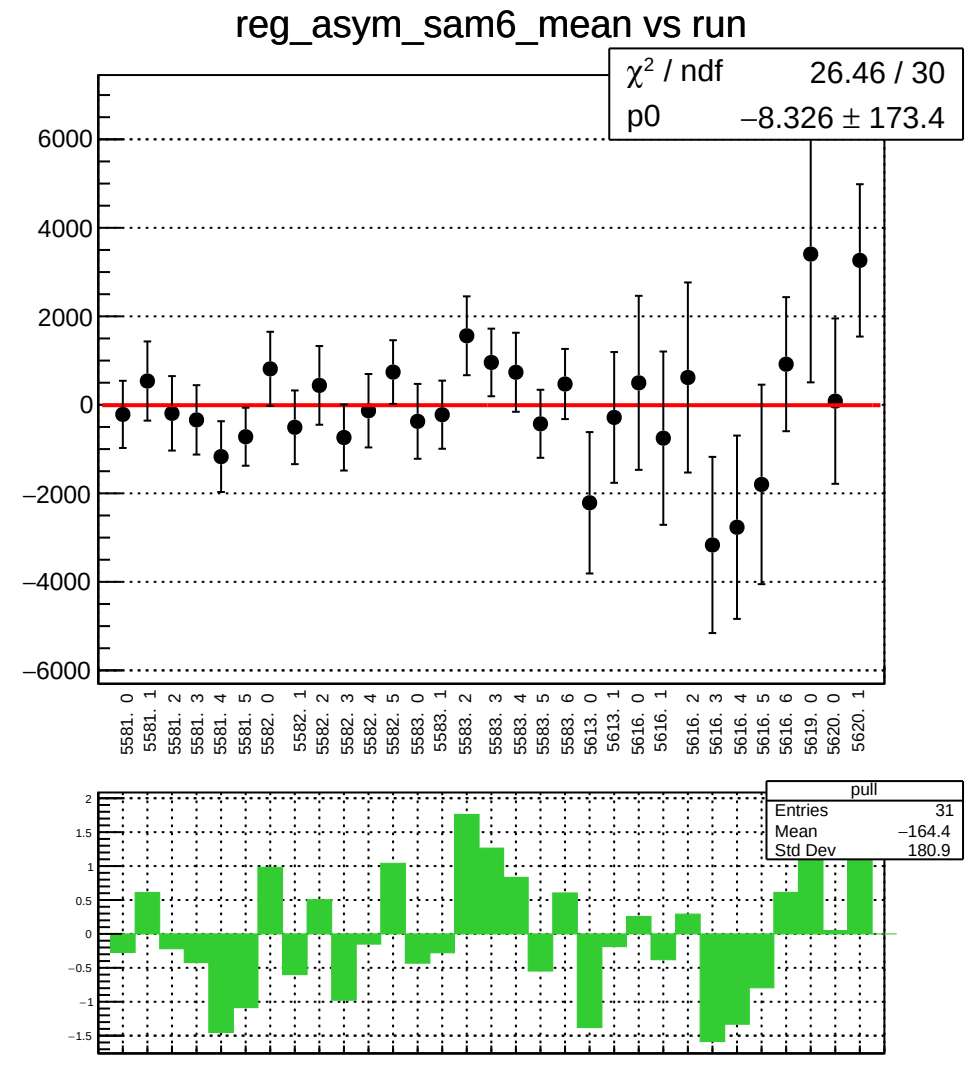

reg_asym_sam5_mean vs run
χ² / ndf 38.76 / 30
p0 −13.32 ± 155.7
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.98
Std Dev 12.64
2
1
0
−1
−2
−3

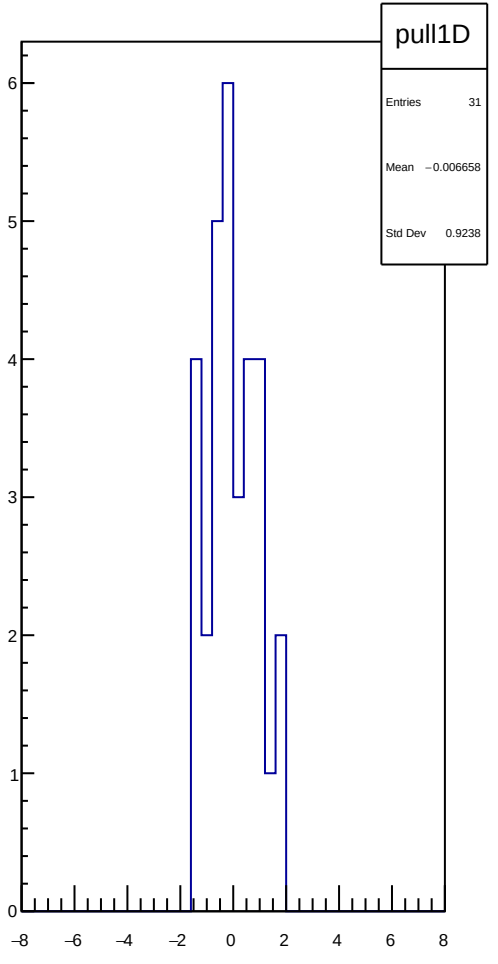

pull1D
Entries 31
Mean −0.1025
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

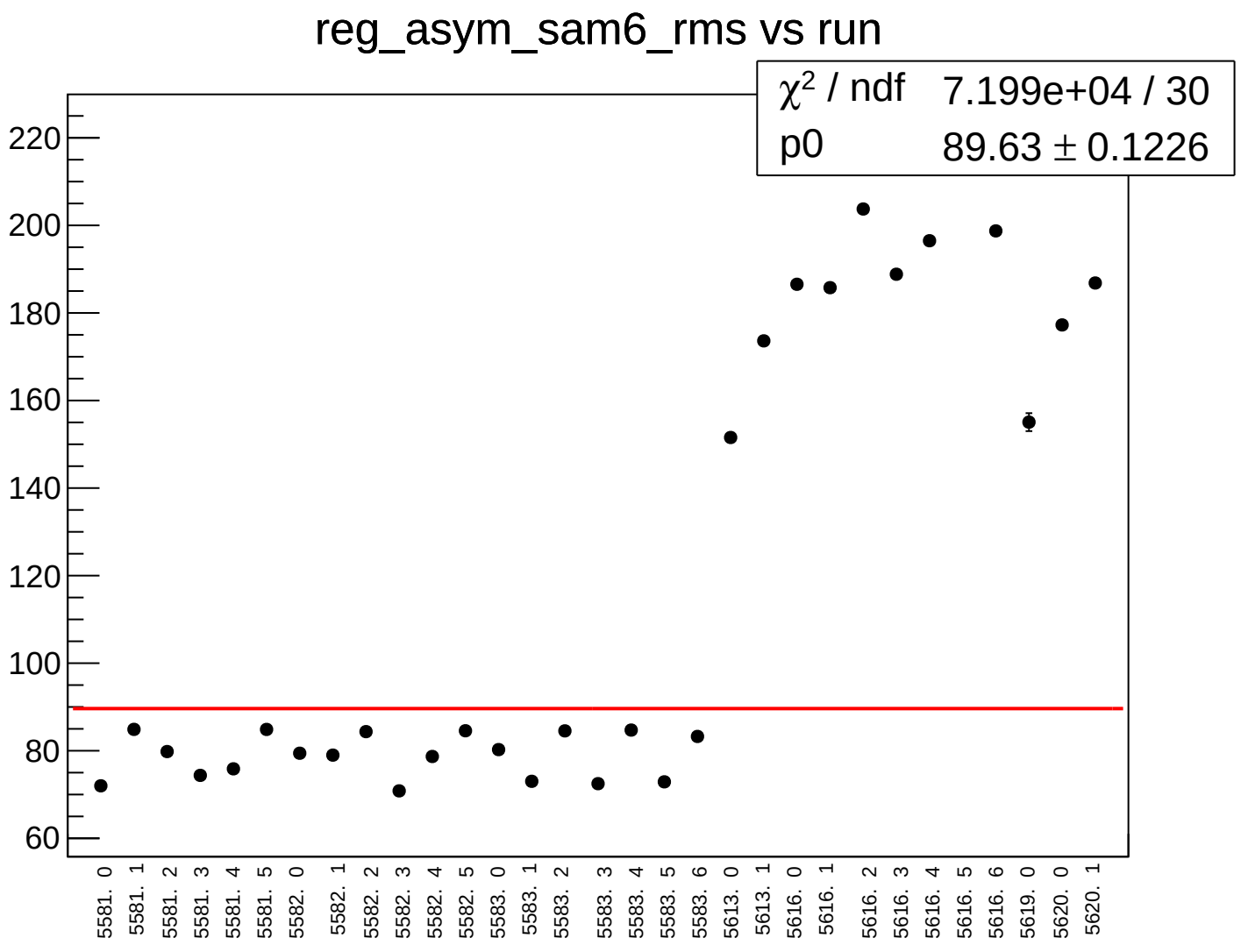

reg_asym_sam5_rms vs run
χ² / ndf 1.655e+05 / 30
p0 73.11 ± 0.1101
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

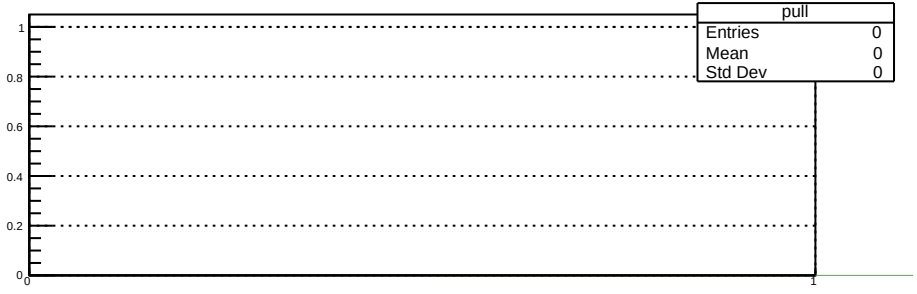

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

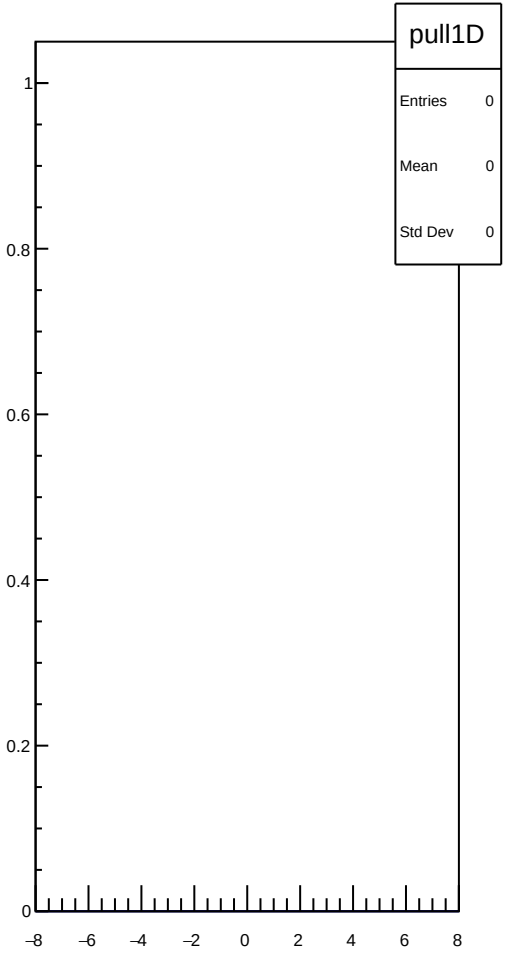

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

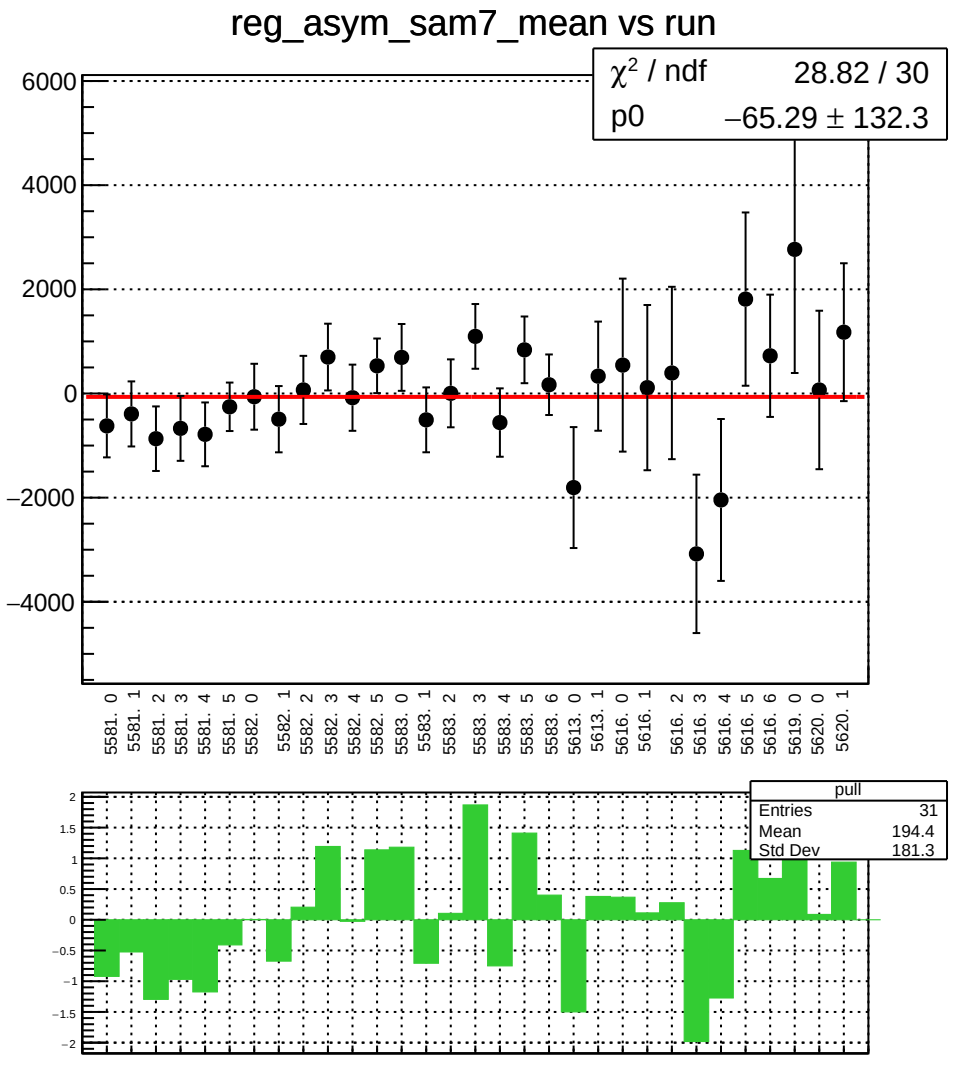

reg_asym_sam6_mean vs run
χ² / ndf 26.46 / 30
p0 −8.326 ± 173.4
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −164.4
Std Dev 180.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

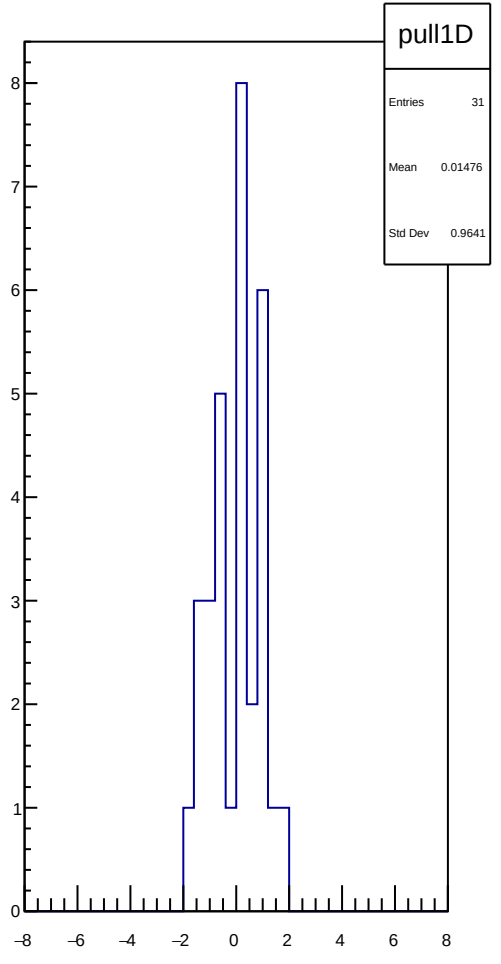

pull1D
Entries 31
Mean −0.006658
Std Dev 0.9238
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

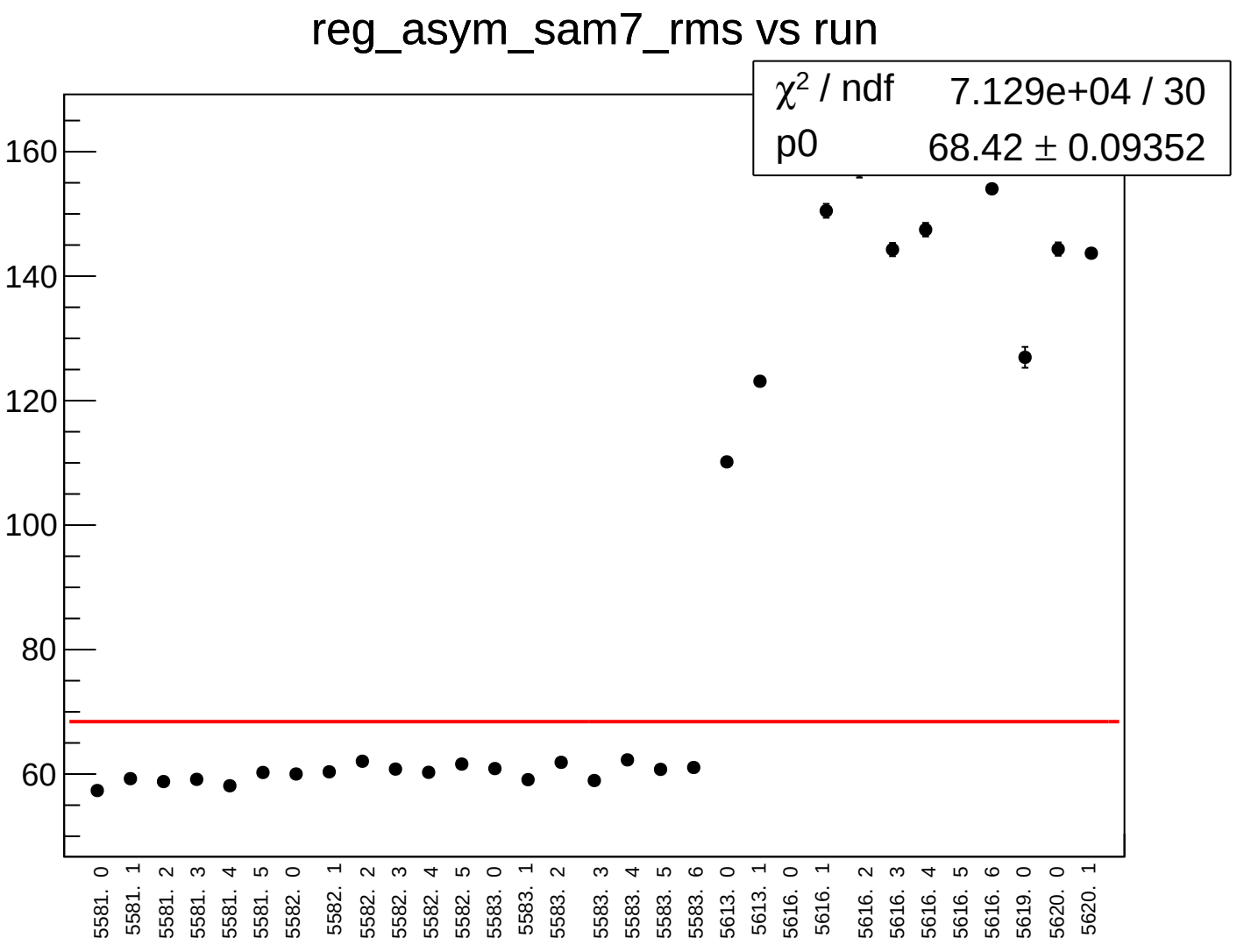

reg_asym_sam6_rms vs run
χ² / ndf 7.199e+04 / 30
p0 89.63 ± 0.1226
220
200
180
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

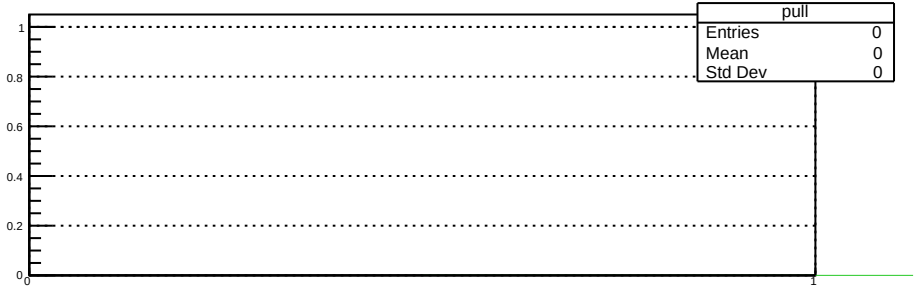

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

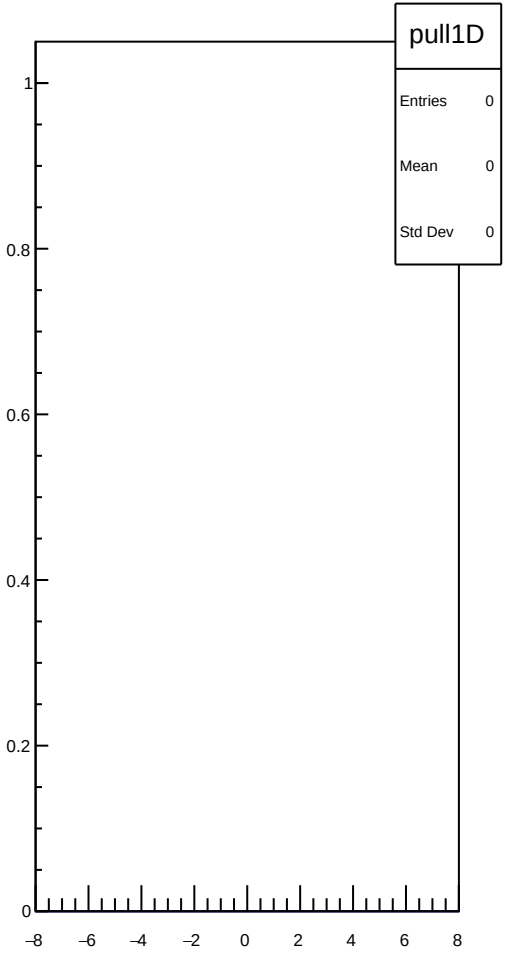

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

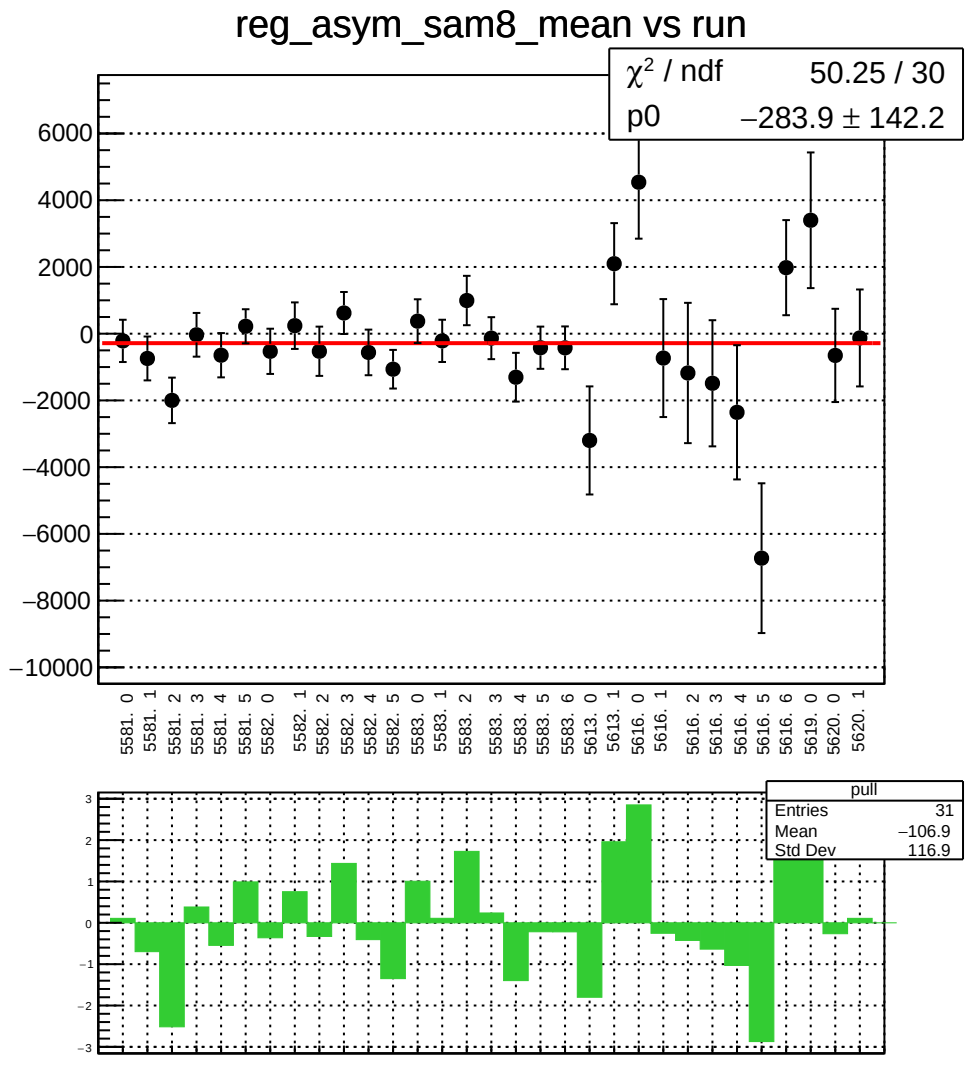

reg_asym_sam7_mean vs run
χ² / ndf 28.82 / 30
p0 −65.29 ± 132.3
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 194.4
Std Dev 181.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

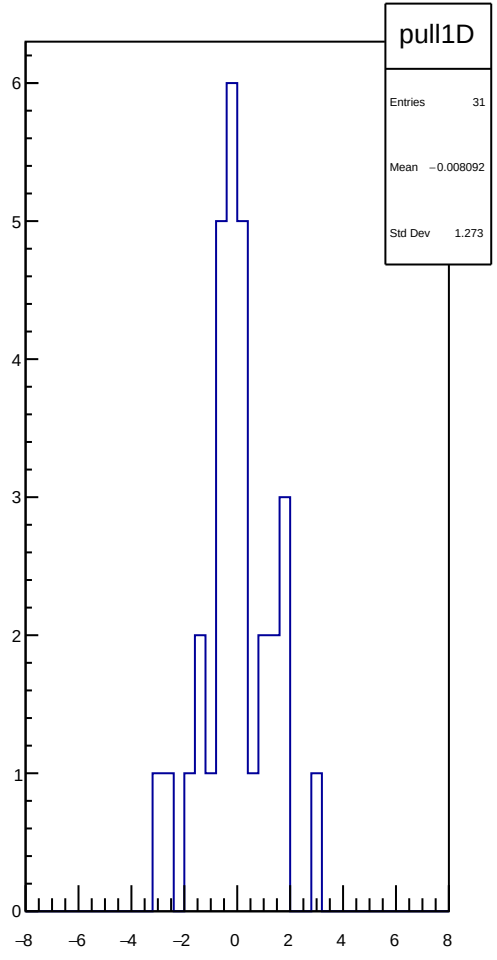

pull1D
Entries 31
Mean 0.01476
Std Dev 0.9641
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

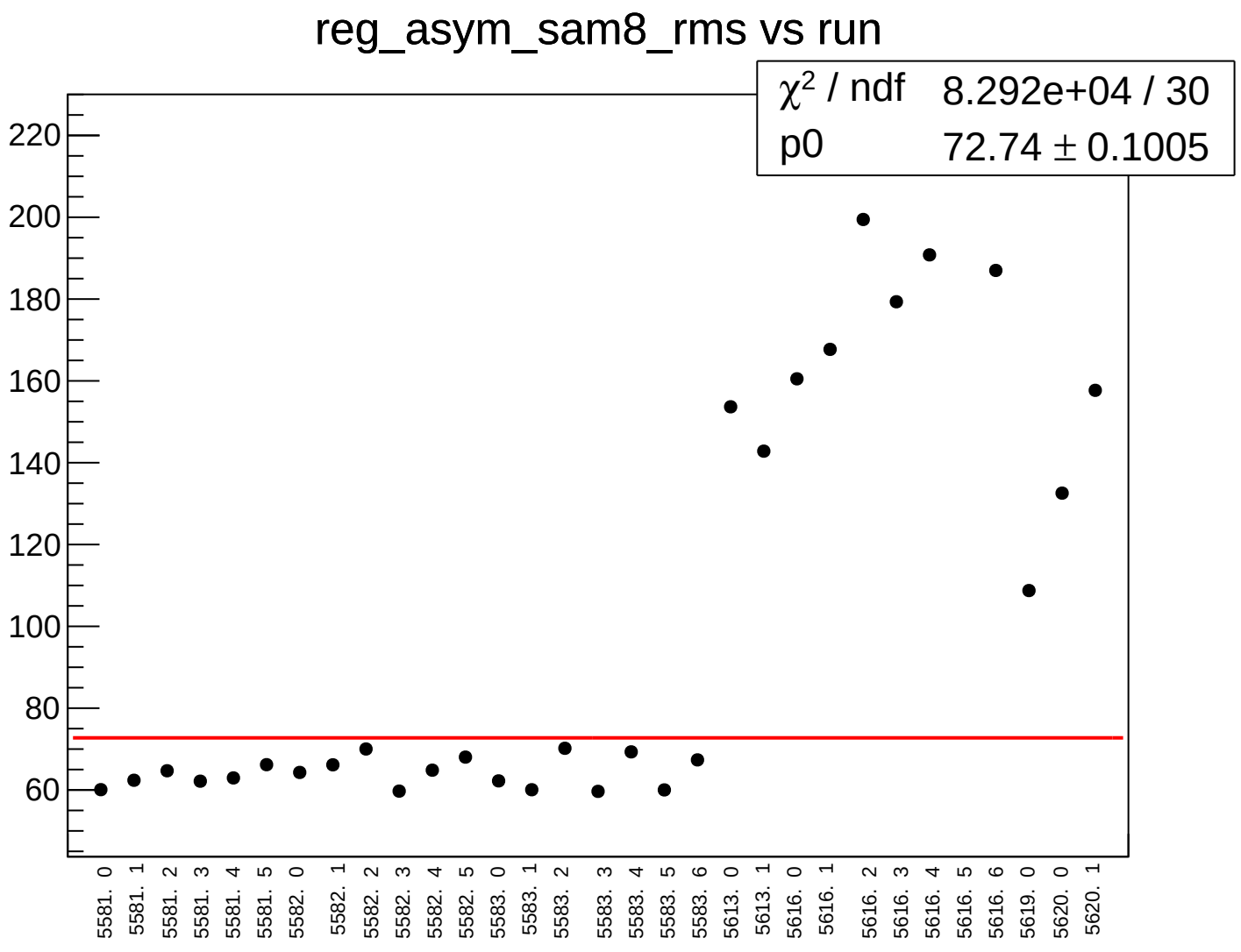

reg_asym_sam7_rms vs run
χ² / ndf 7.129e+04 / 30
p0 68.42 ± 0.09352
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

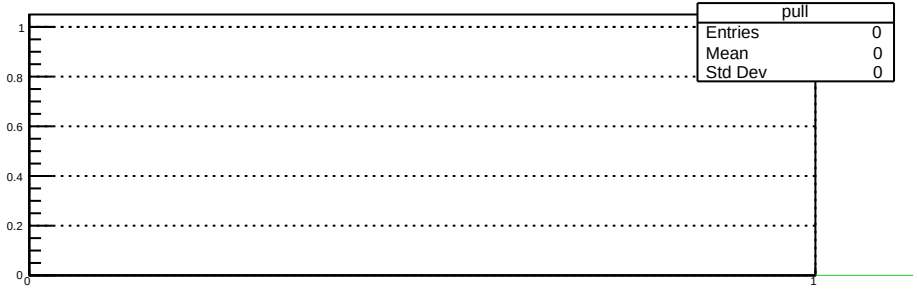

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

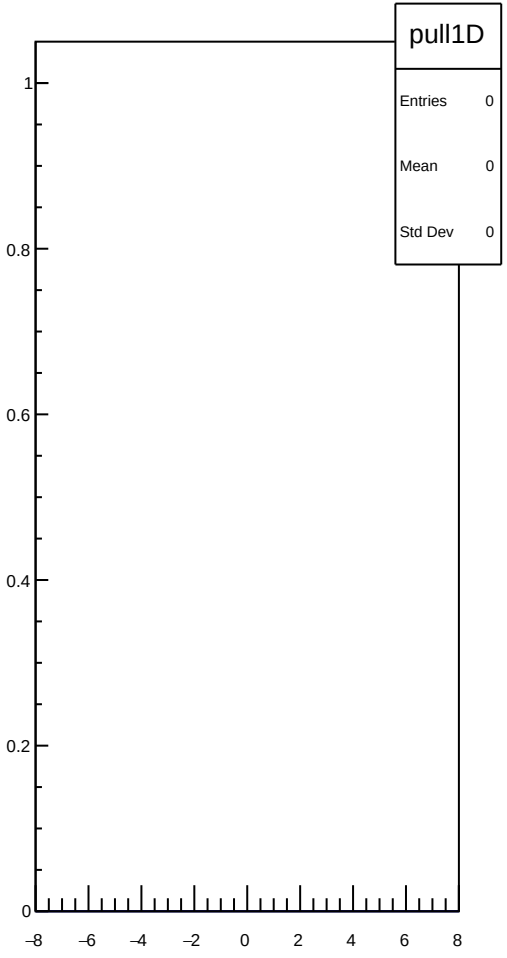

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

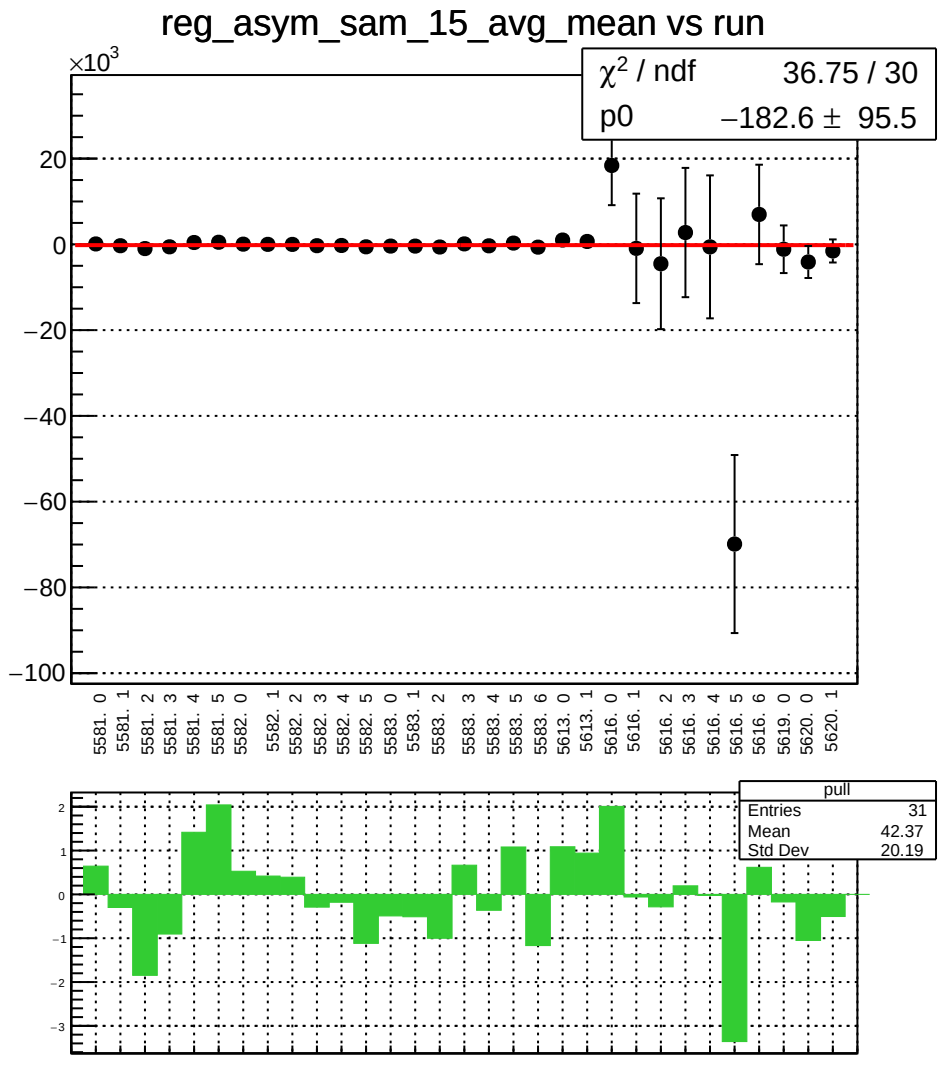

reg_asym_sam8_mean vs run
χ² / ndf 50.25 / 30
p0 −283.9 ± 142.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −106.9
Std Dev 116.9
3
2
1
0
−1
−2
−3

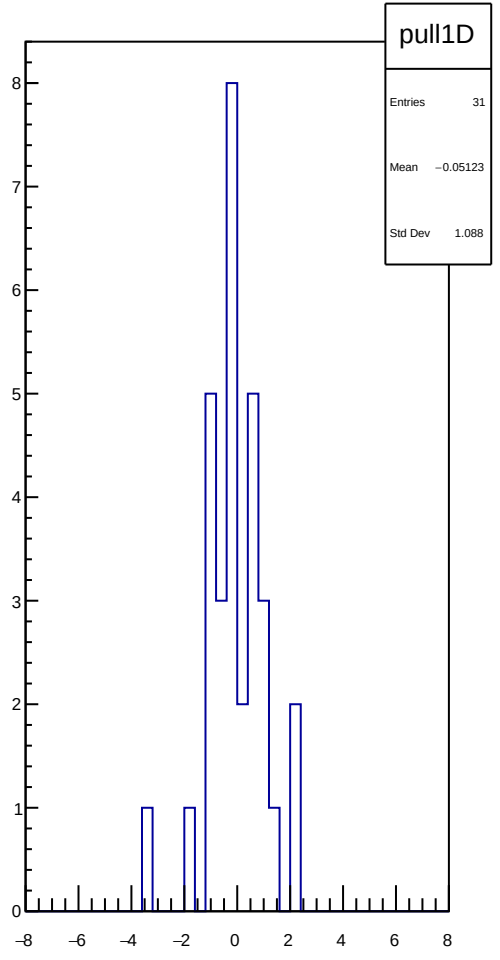

pull1D
Entries 31
Mean −0.008092
Std Dev 1.273
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

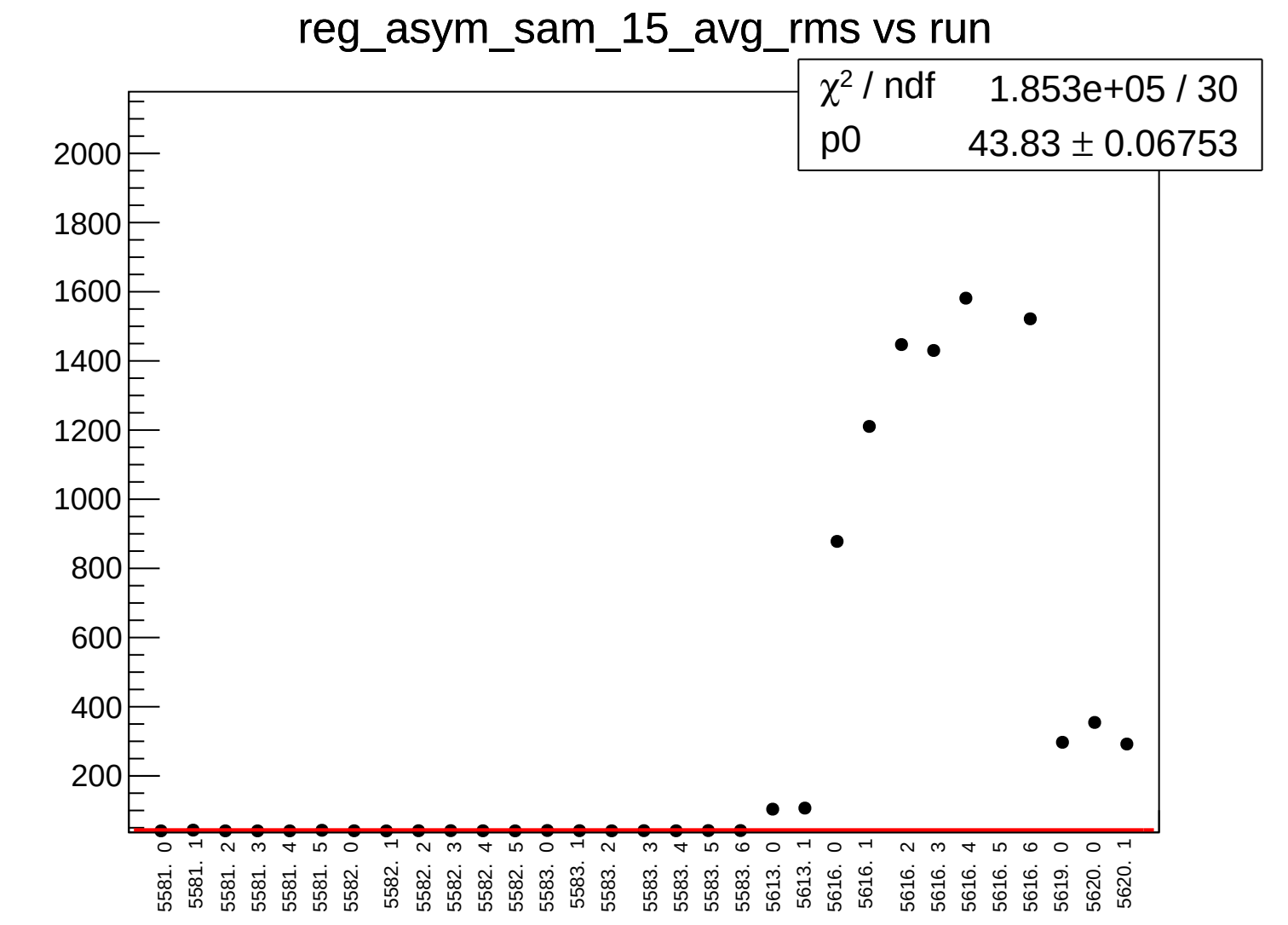

reg_asym_sam8_rms vs run
χ^2 / ndf 8.292e+04 / 30
p0 72.74 ± 0.1005
220
200
180
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

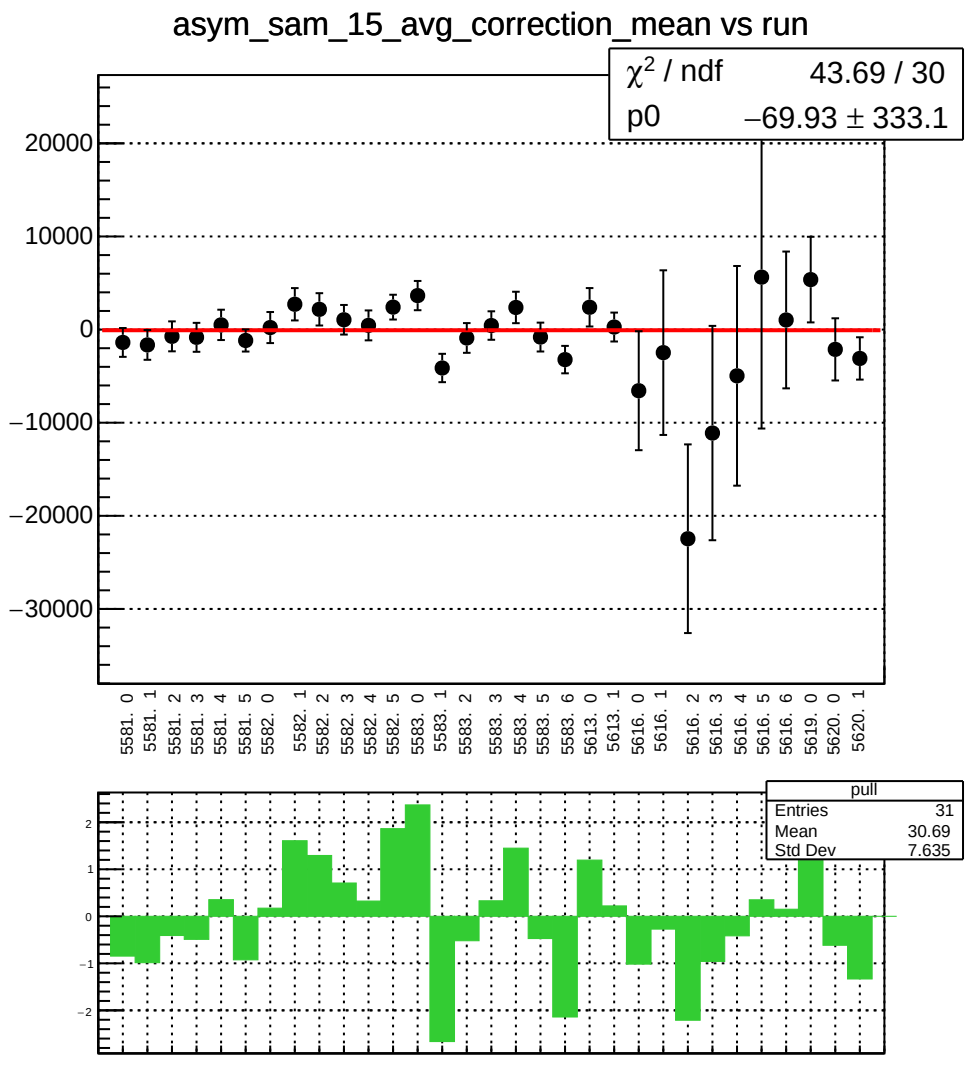

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

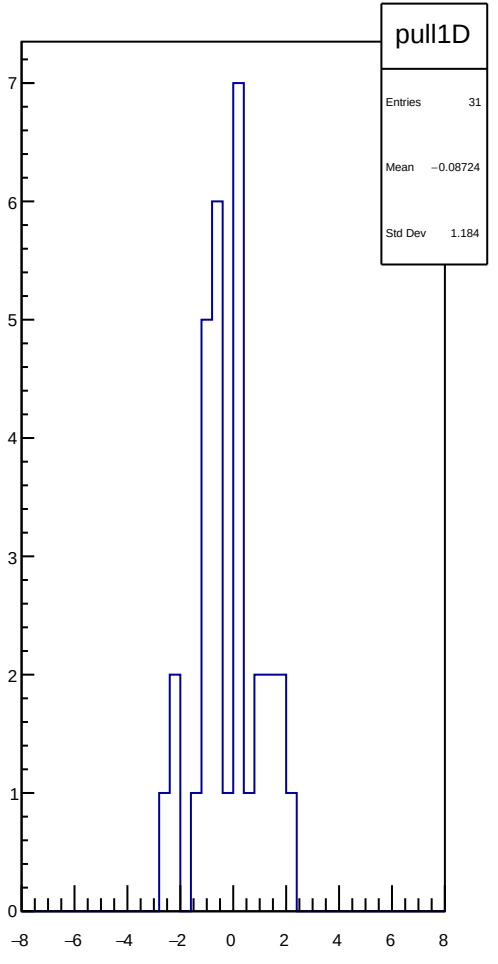

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

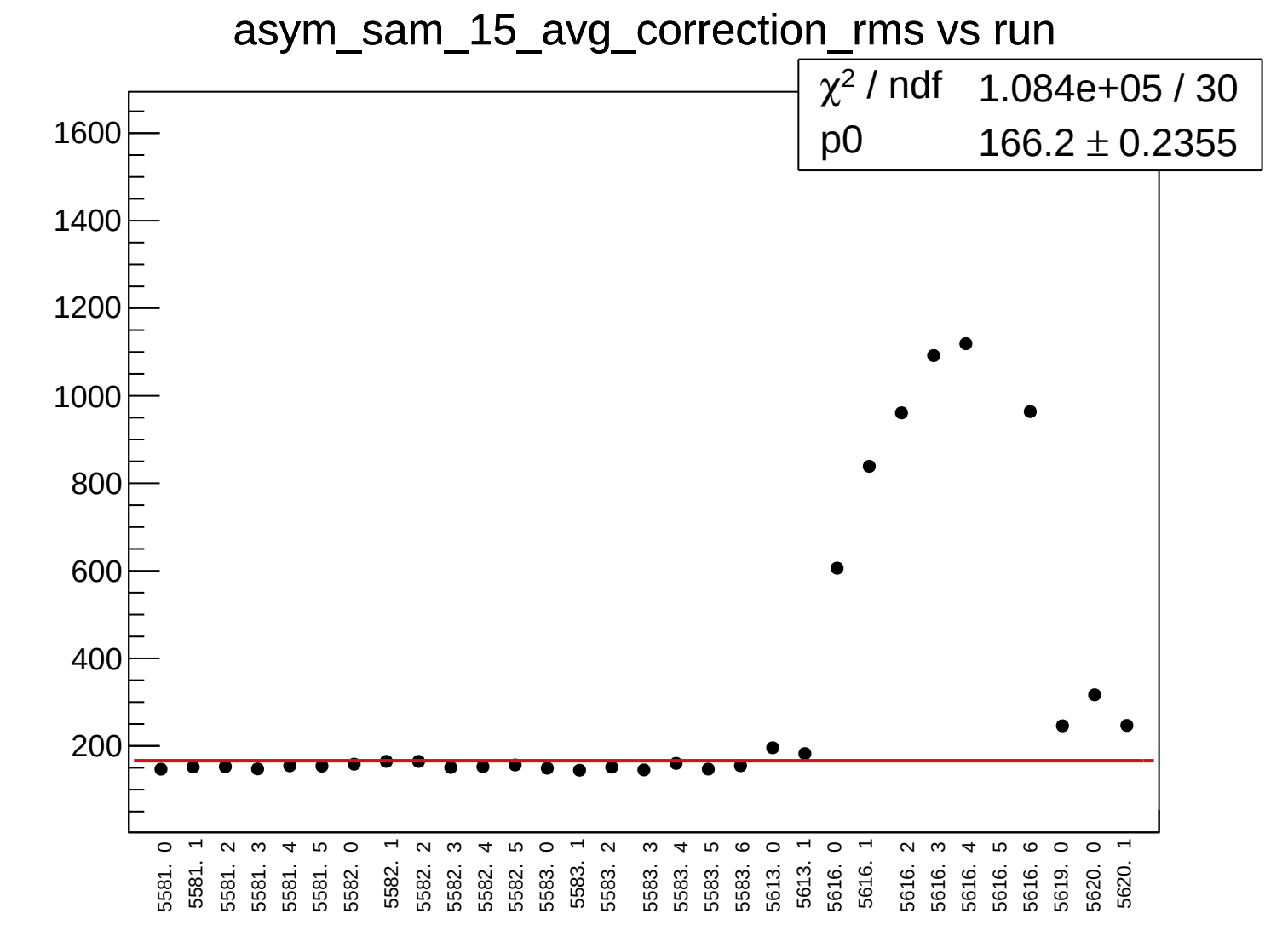

reg_asym_sam_15_avg_mean vs run
×10^3
χ^2 / ndf 36.75 / 30
p0 −182.6 ± 95.5
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.37
Std Dev 20.19
2
1
0
−1
−2
−3

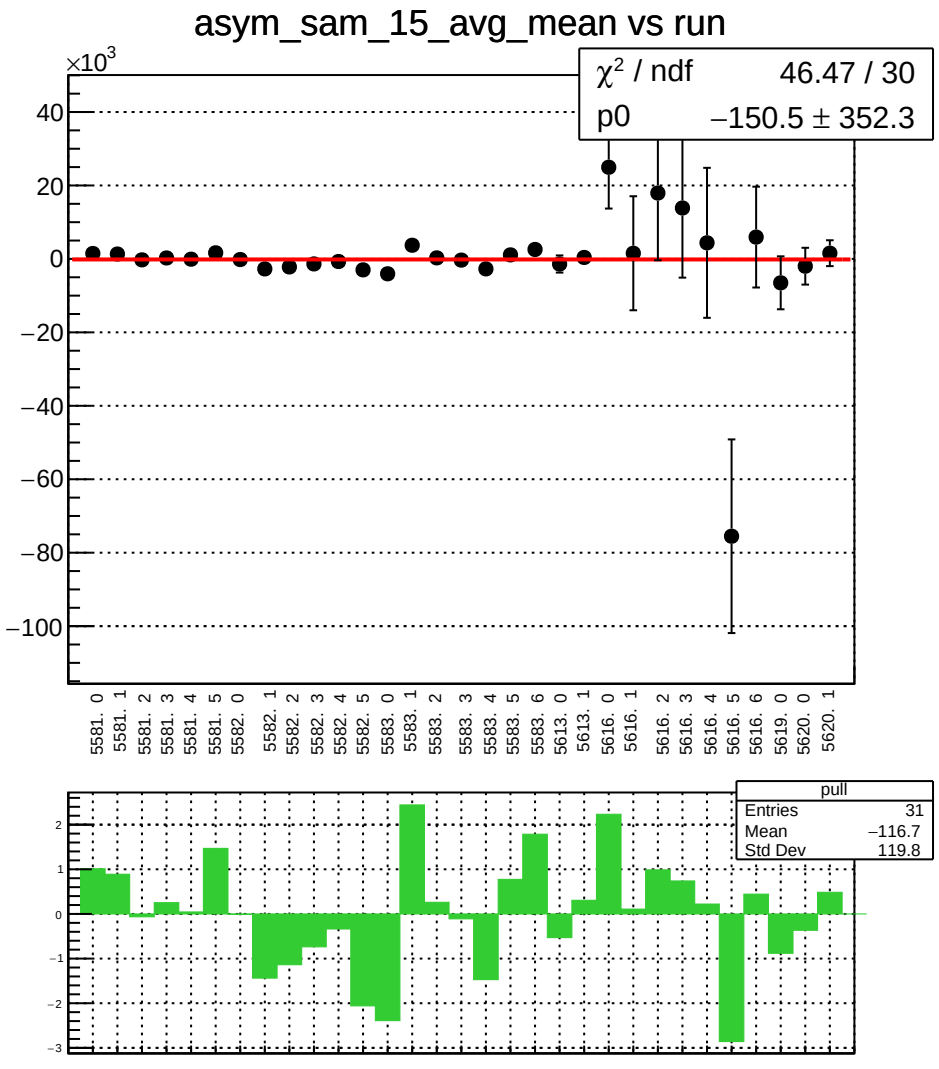

pull1D
Entries 31
Mean −0.05123
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

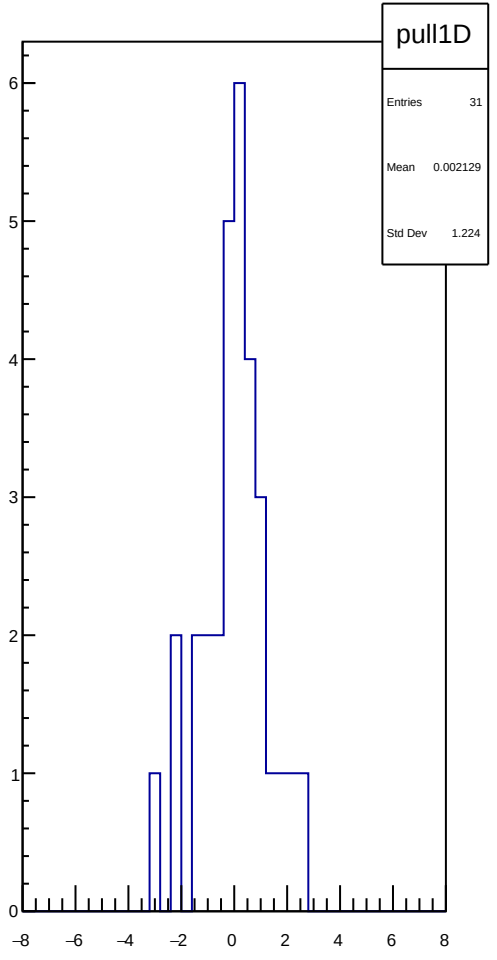

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1.853e+05 / 30
p0 43.83 ± 0.06753
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

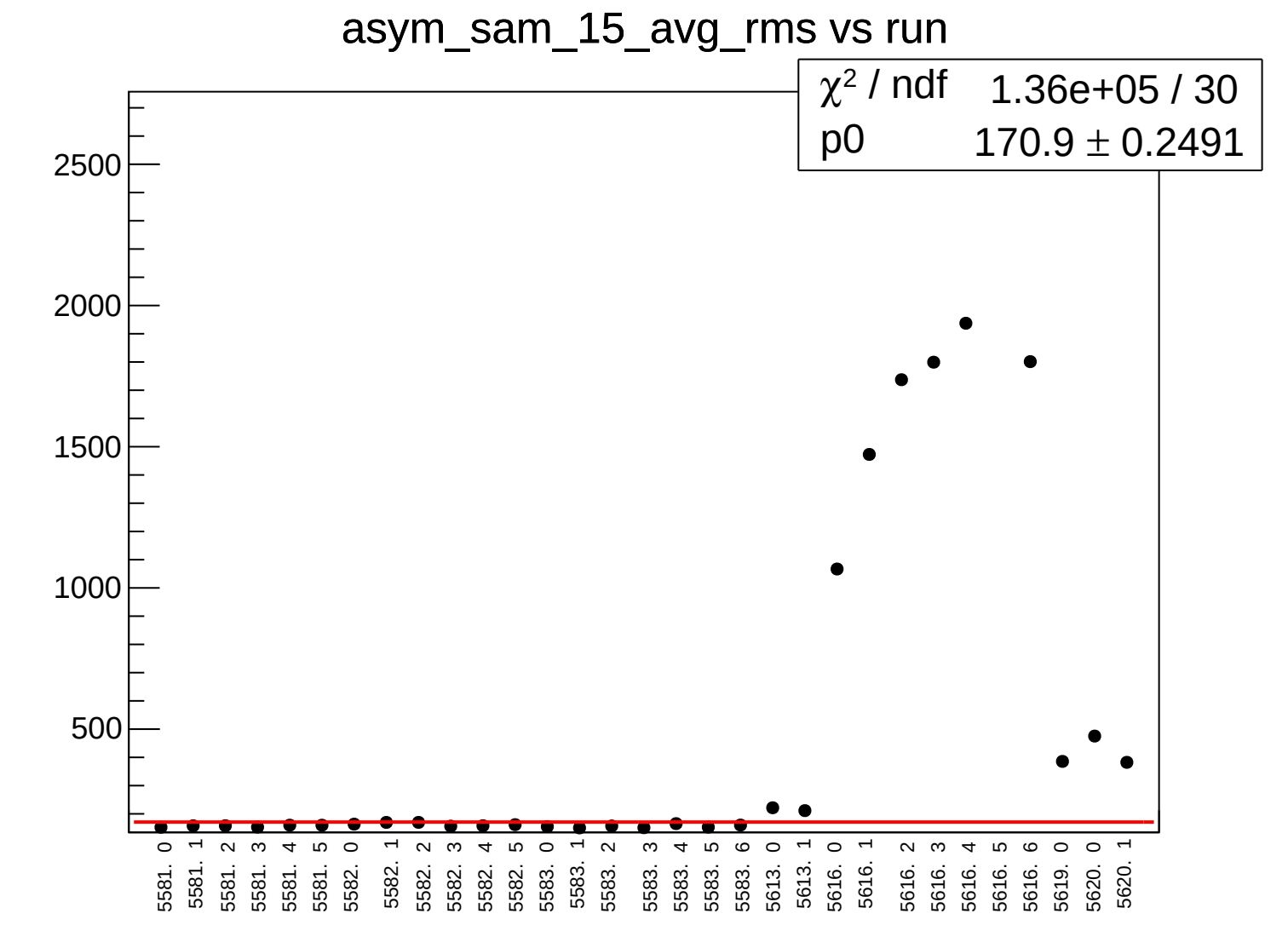

asym_sam_15_avg_correction_mean vs run
χ² / ndf 43.69 / 30
p0 −69.93 ± 333.1
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.69
Std Dev 7.635
2
1
0
−1
−2

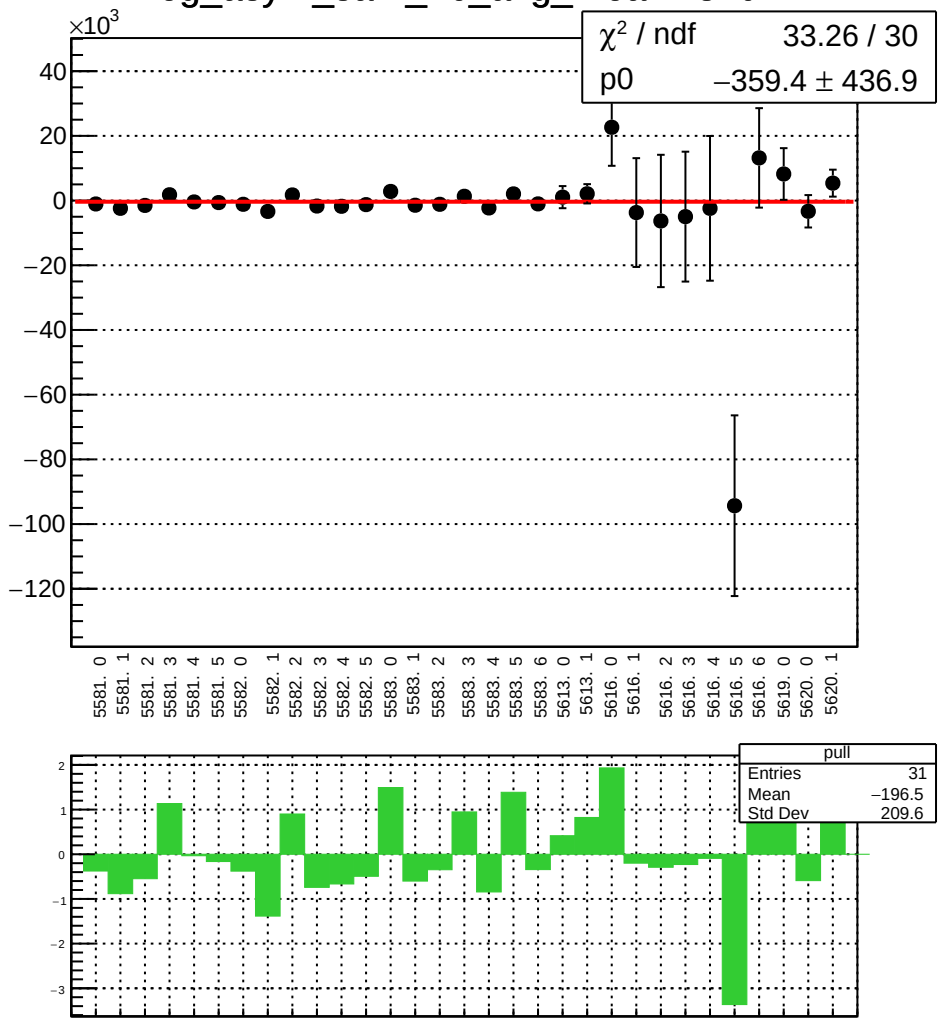

pull1D
Entries 31
Mean −0.08724
Std Dev 1.184
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

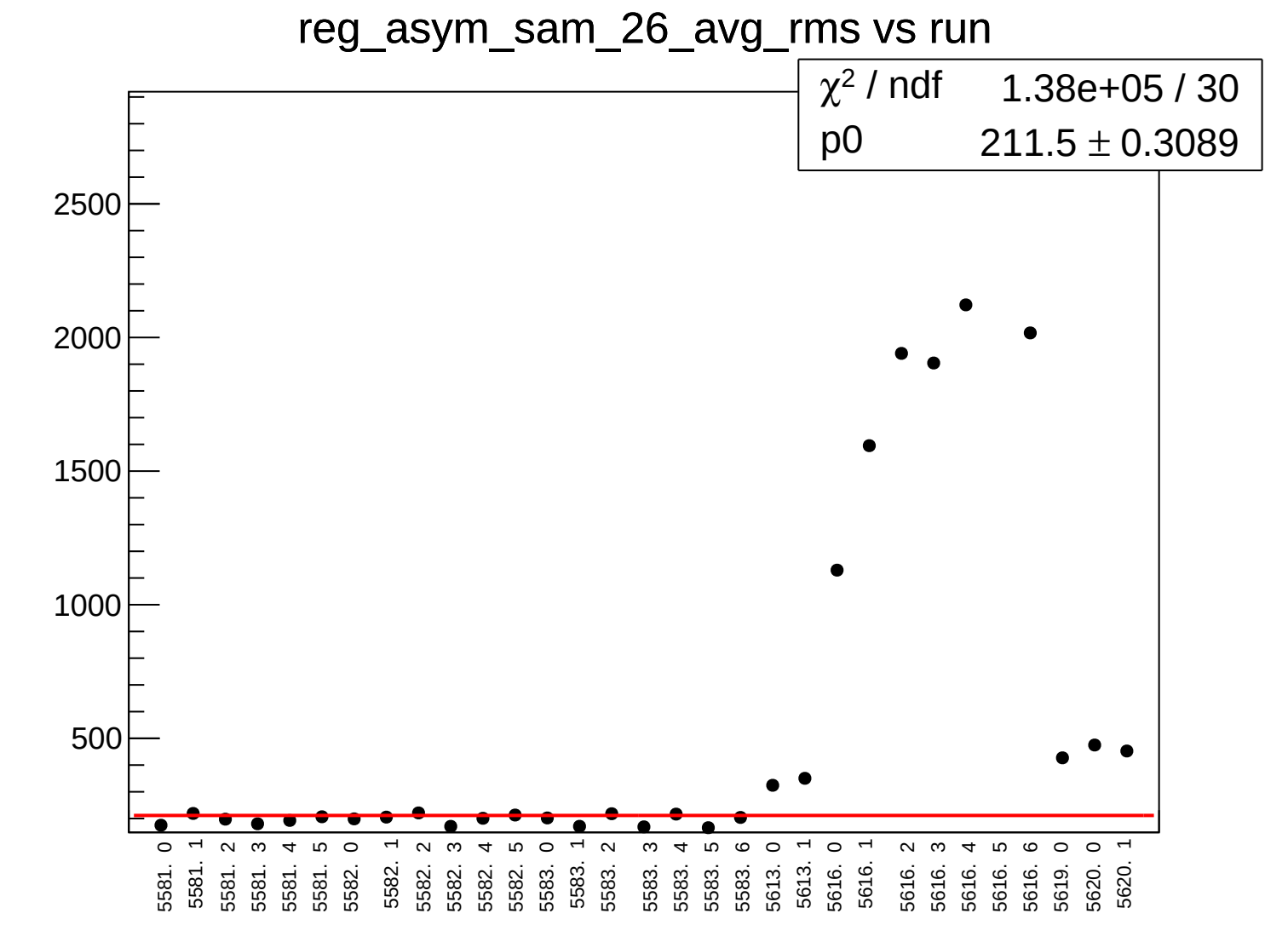

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.084e+05 / 30
p0 166.2 ± 0.2355
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

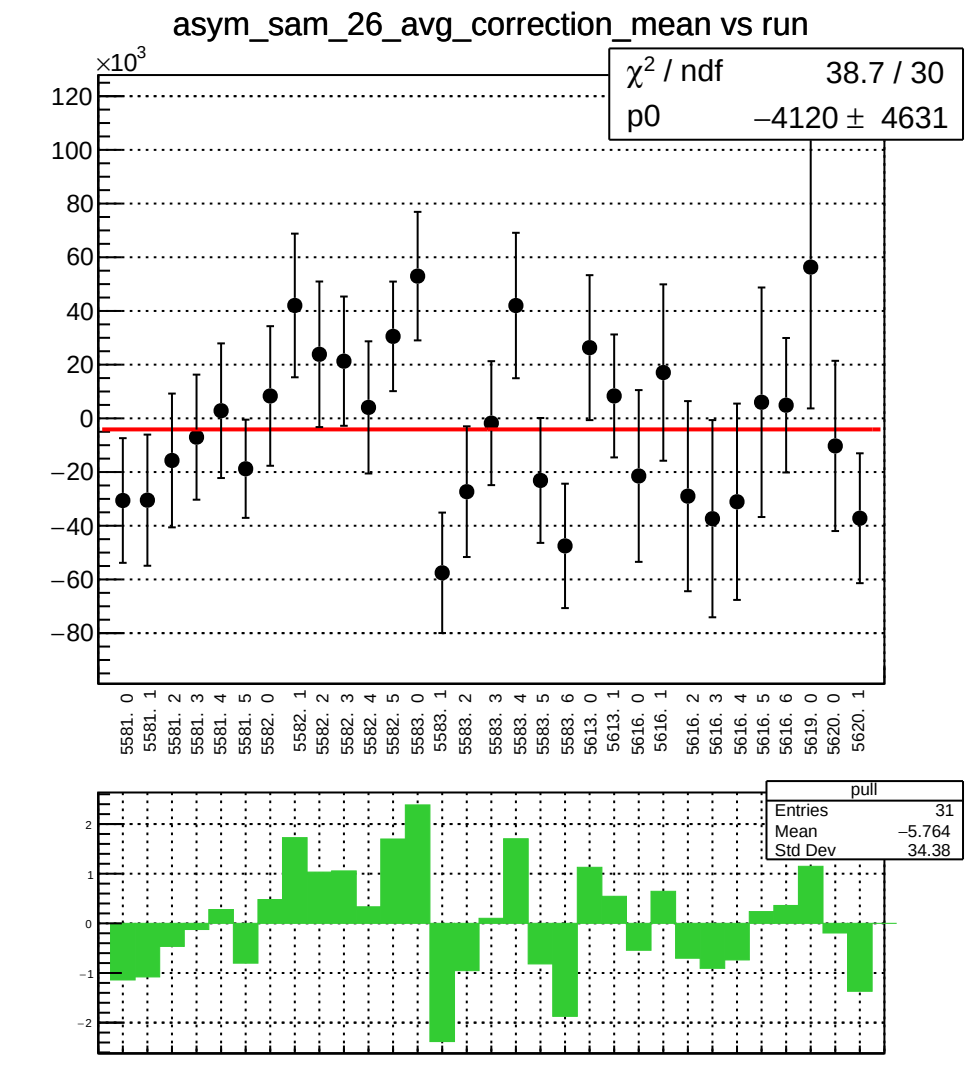

asym_sam_15_avg_mean vs run
×10^3
χ² / ndf 46.47 / 30
p0 −150.5 ± 352.3
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −116.7
Std Dev 119.8
2
1
0
−1
−2
−3

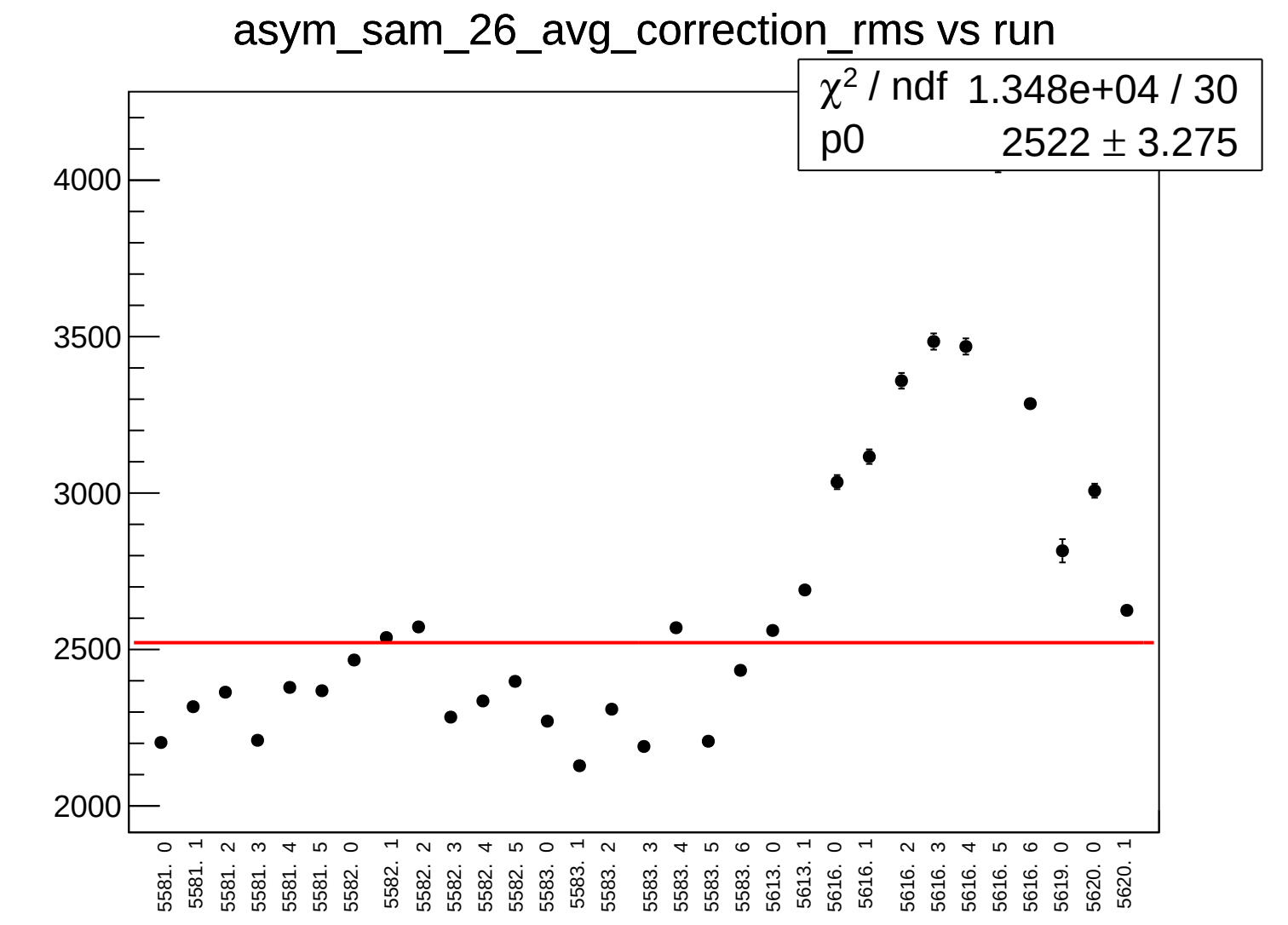

pull1D
Entries 31
Mean 0.002129
Std Dev 1.224
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

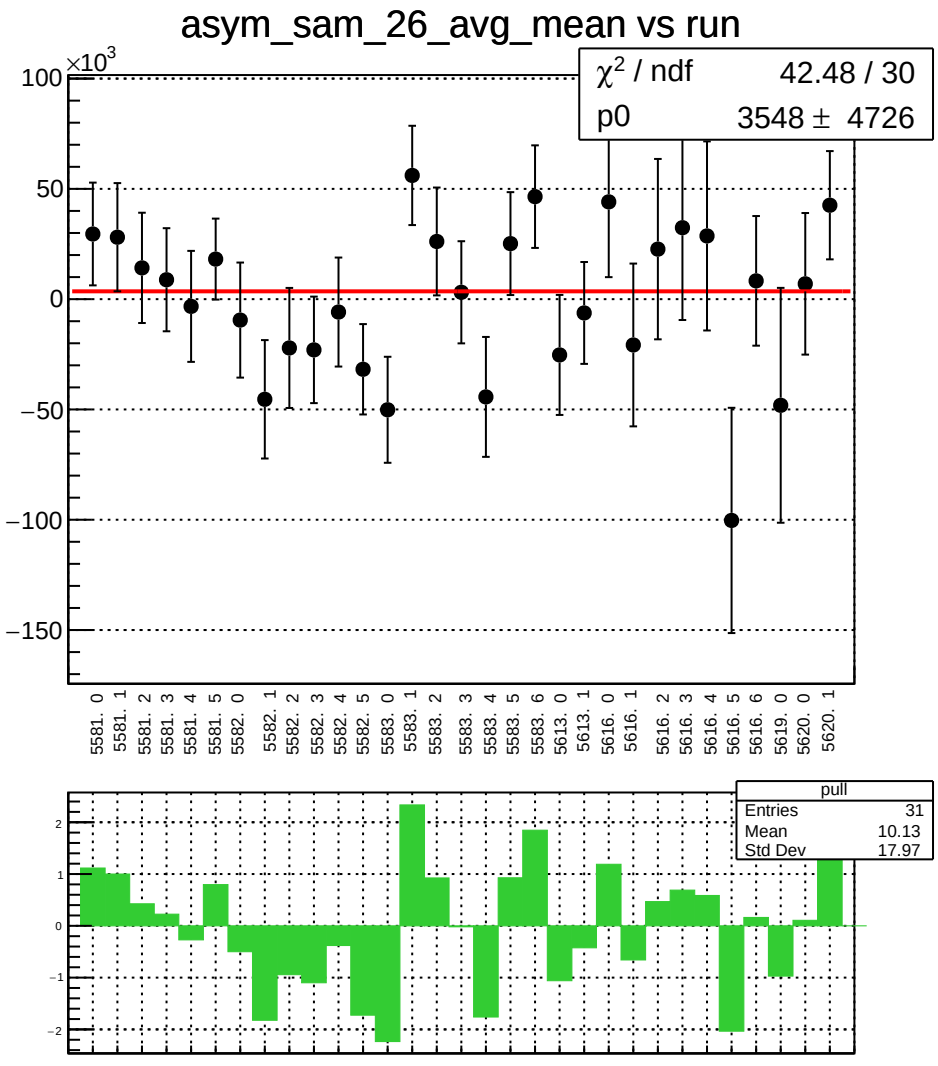

asym_sam_15_avg_rms vs run
χ² / ndf 1.36e+05 / 30
p0 170.9 ± 0.2491
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

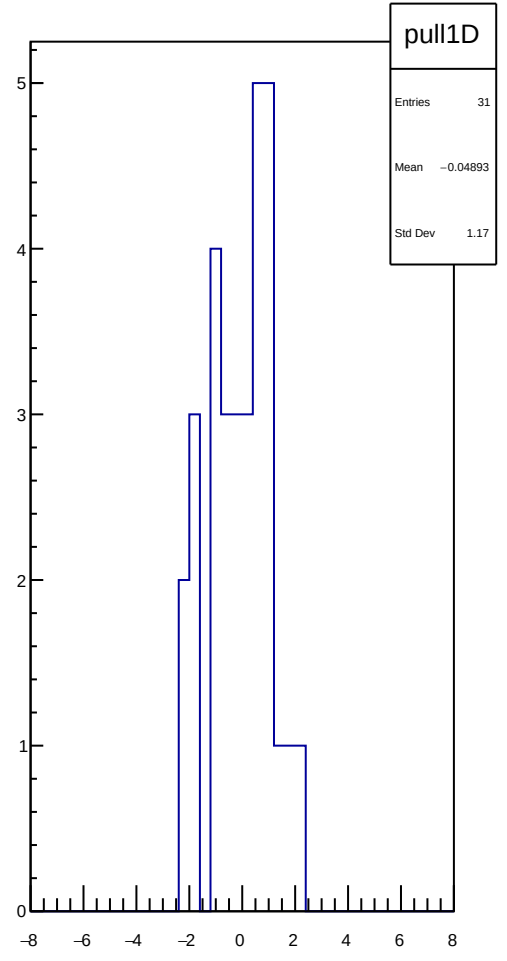

reg_asym_sam_26_avg_mean vs run
χ² / ndf 33.26 / 30
p0 −359.4 ± 436.9
×10³
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −196.5
Std Dev 209.6
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.006074
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

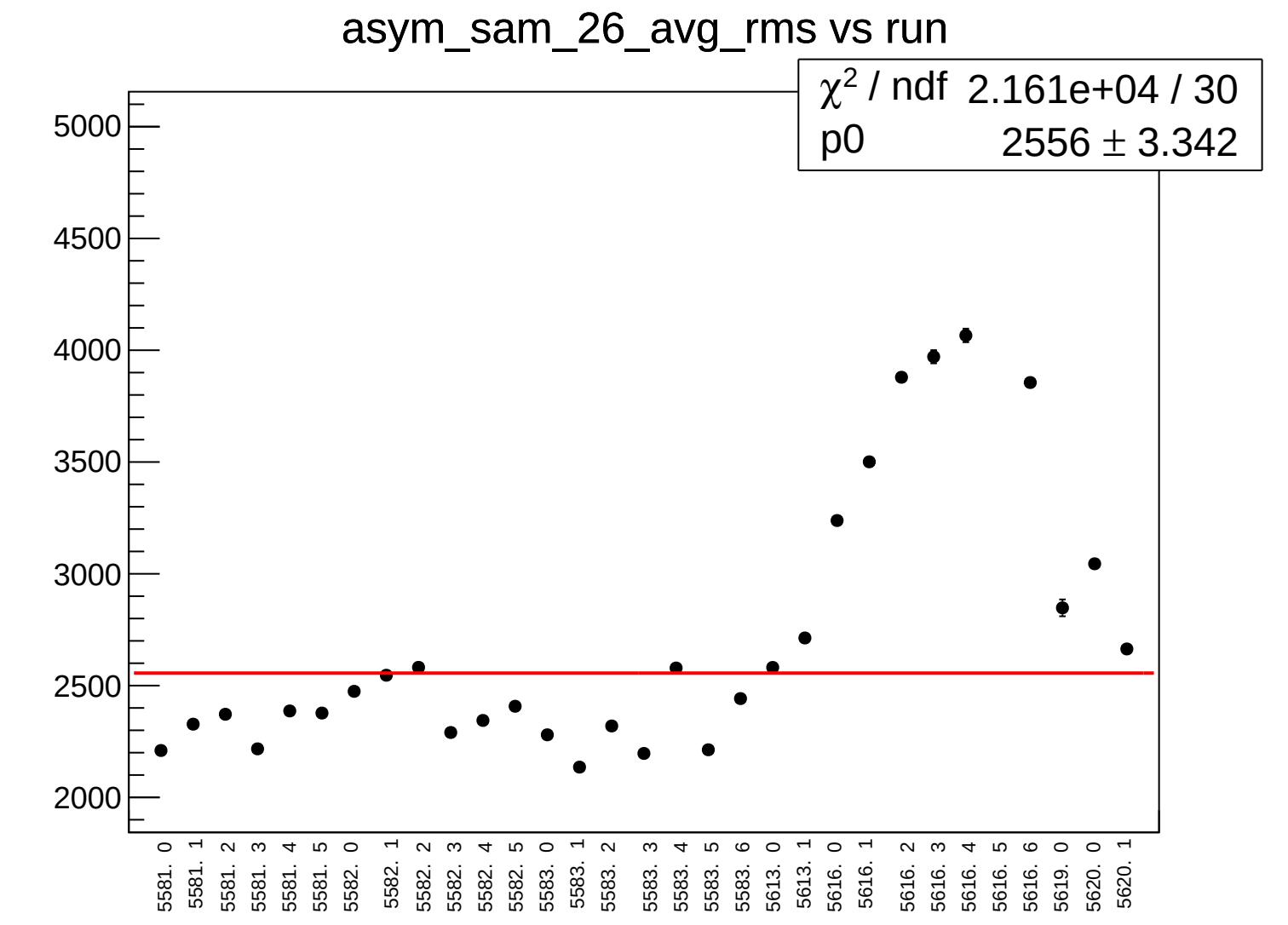

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.38e+05 / 30
p0 211.5 ± 0.3089
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

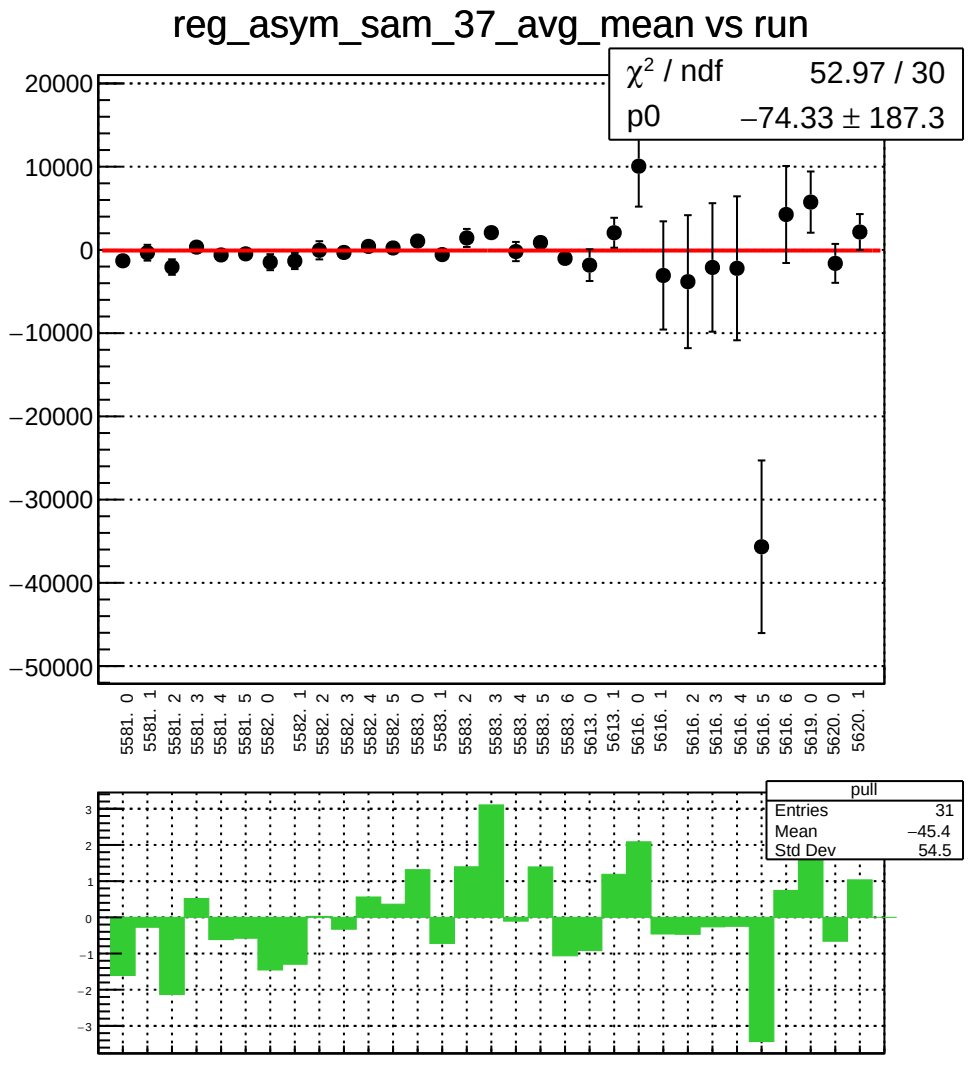

asym_sam_26_avg_correction_mean vs run
×10^3
χ² / ndf 38.7 / 30
p0 −4120 ± 4631
120
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −5.764
Std Dev 34.38
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.02496
Std Dev 1.117
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

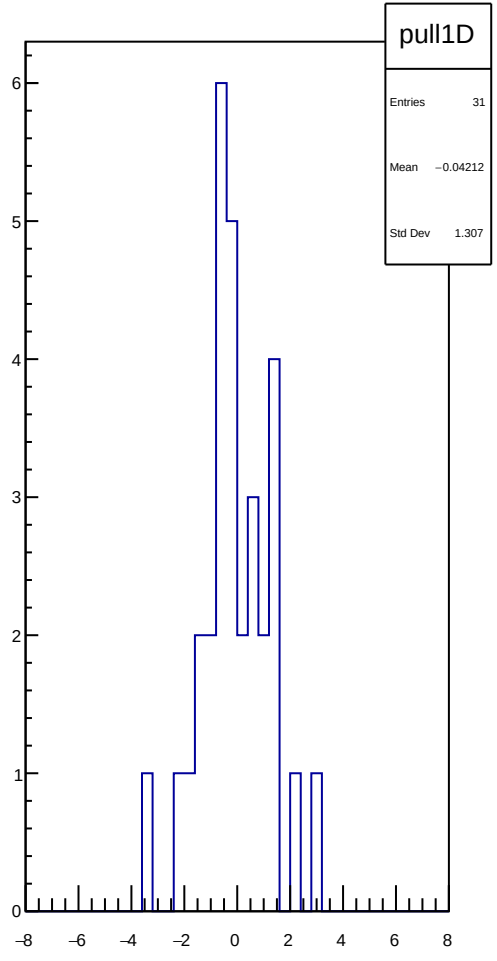

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.348e+04 / 30
p0 2522 ± 3.275
4000
3500
3000
2500
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

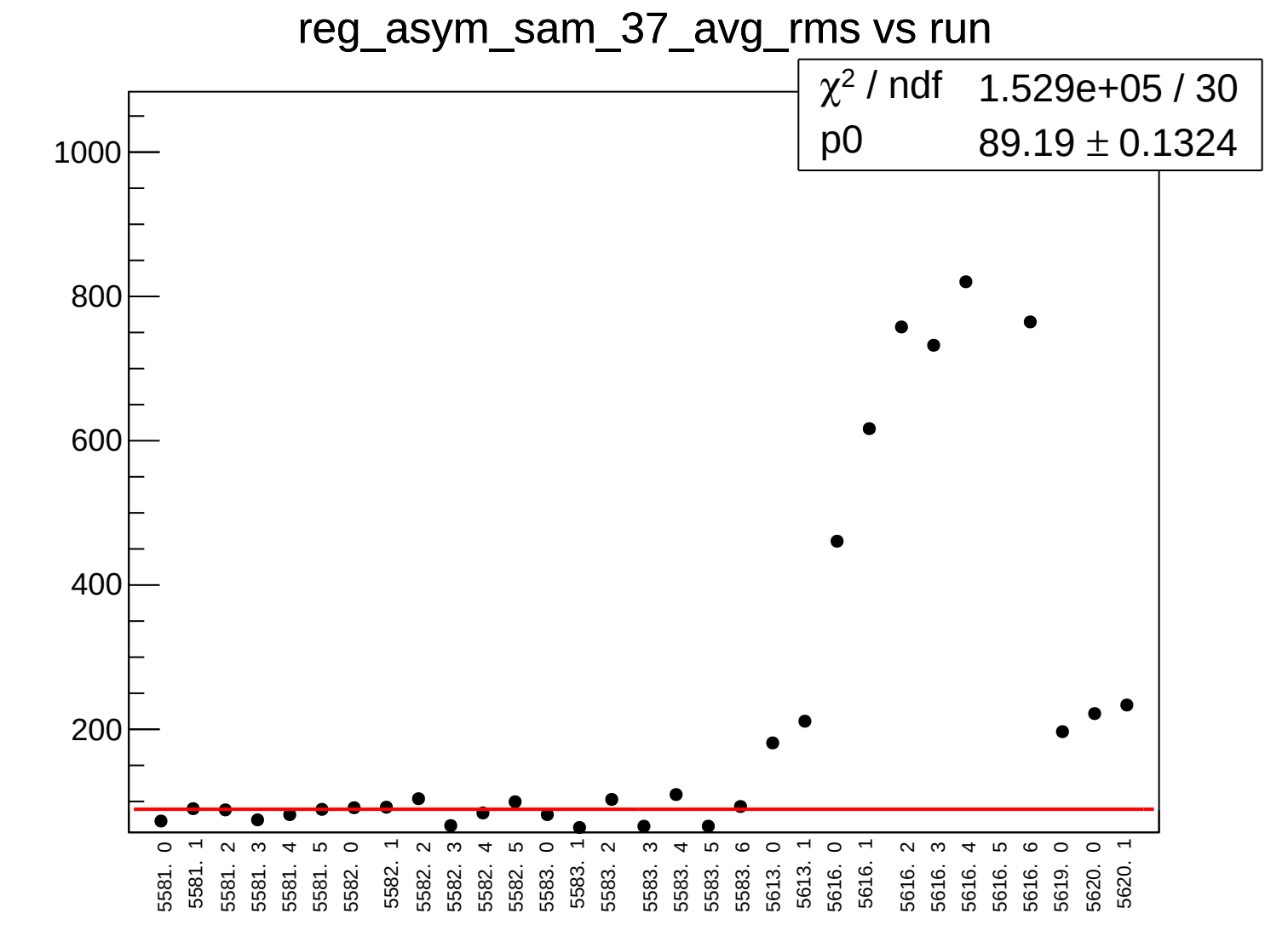

asym_sam_26_avg_mean vs run
×10^3
χ^2 / ndf 42.48 / 30
p0 3548 ± 4726
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.13
Std Dev 17.97
2
1
0
−1
−2

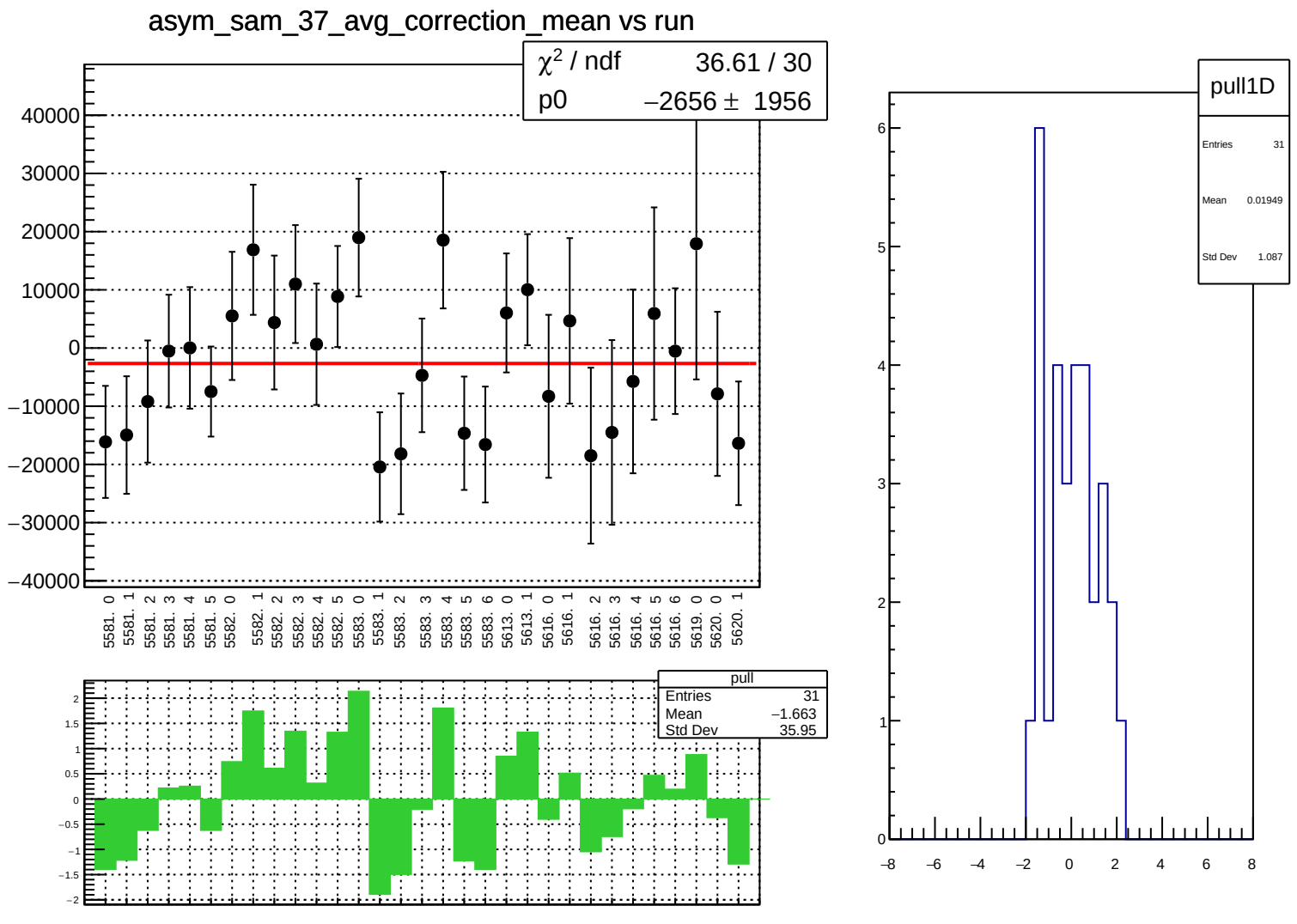

pull1D
Entries 31
Mean −0.04893
Std Dev 1.17
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

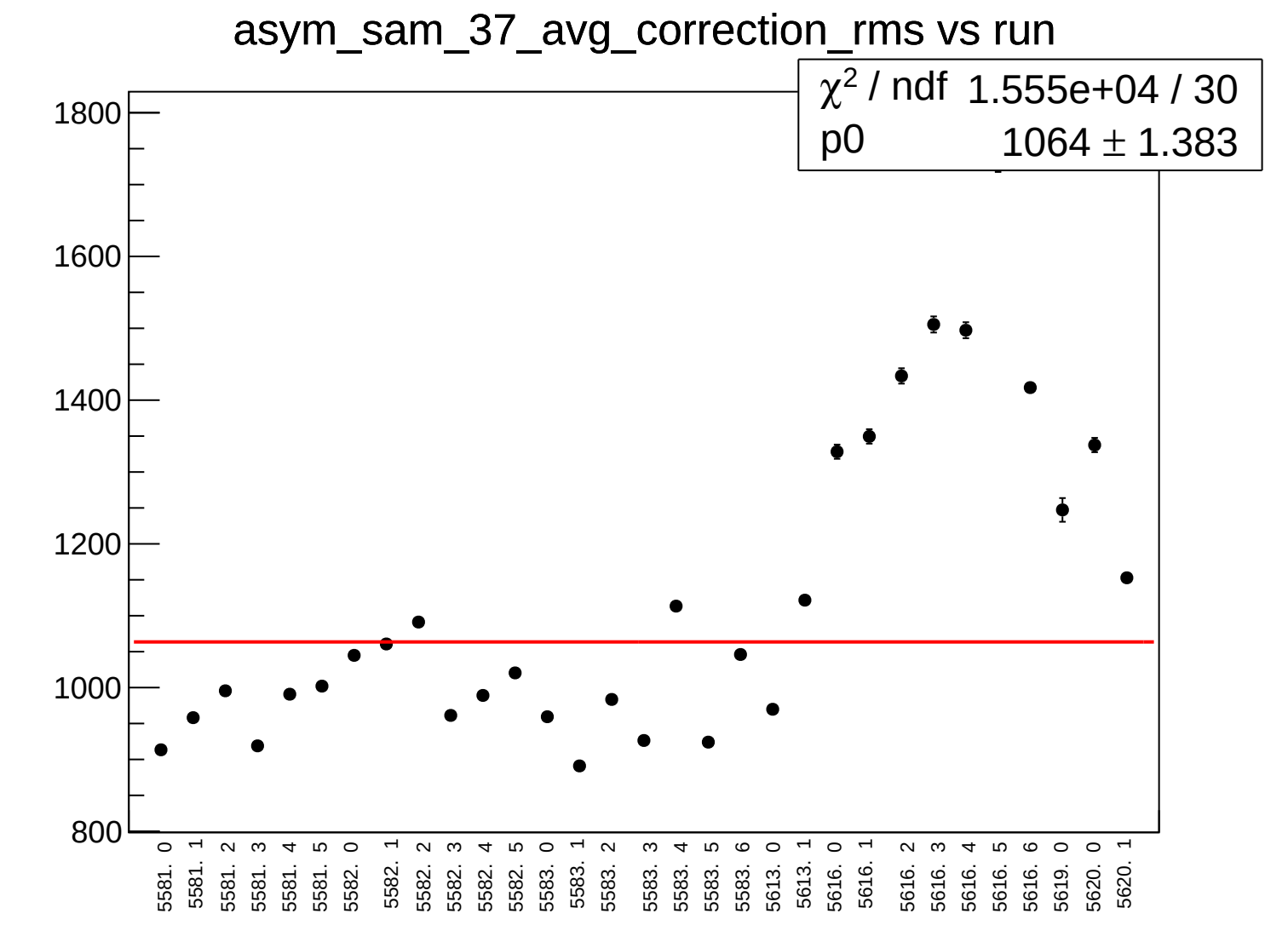

asym_sam_26_avg_rms vs run
χ^2 / ndf 2.161e+04 / 30
p0 2556 ± 3.342
5000
4500
4000
3500
3000
2500
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

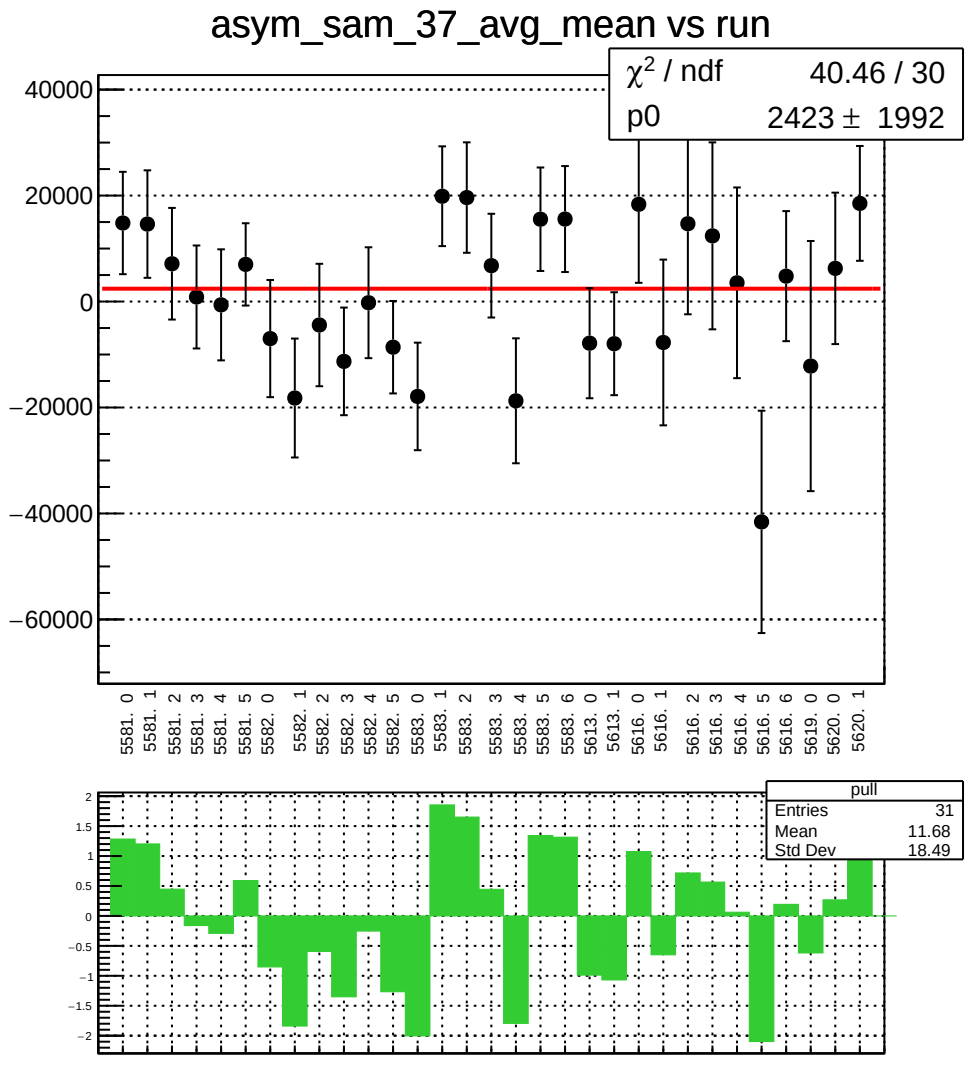

reg_asym_sam_37_avg_mean vs run
χ² / ndf 52.97 / 30
p0 −74.33 ± 187.3
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −45.4
Std Dev 54.5
3
2
1
0
−1
−2
−3

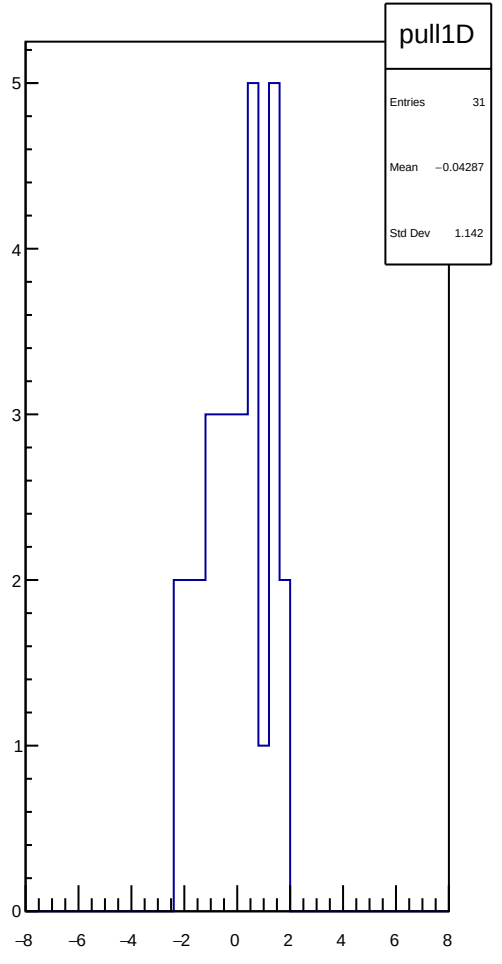

pull1D
Entries 31
Mean −0.04212
Std Dev 1.307
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

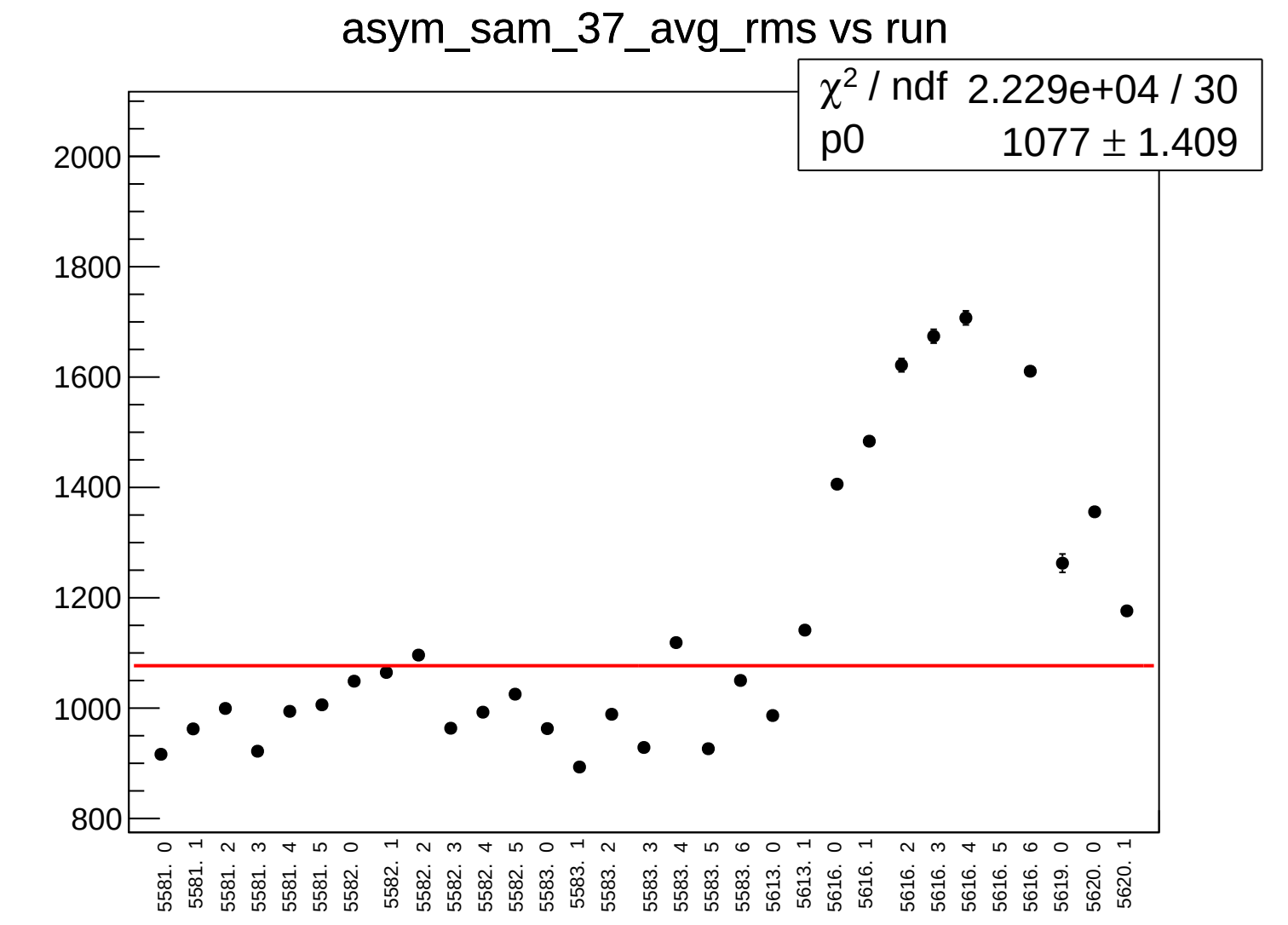

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.529e+05 / 30
p0 89.19 ± 0.1324
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

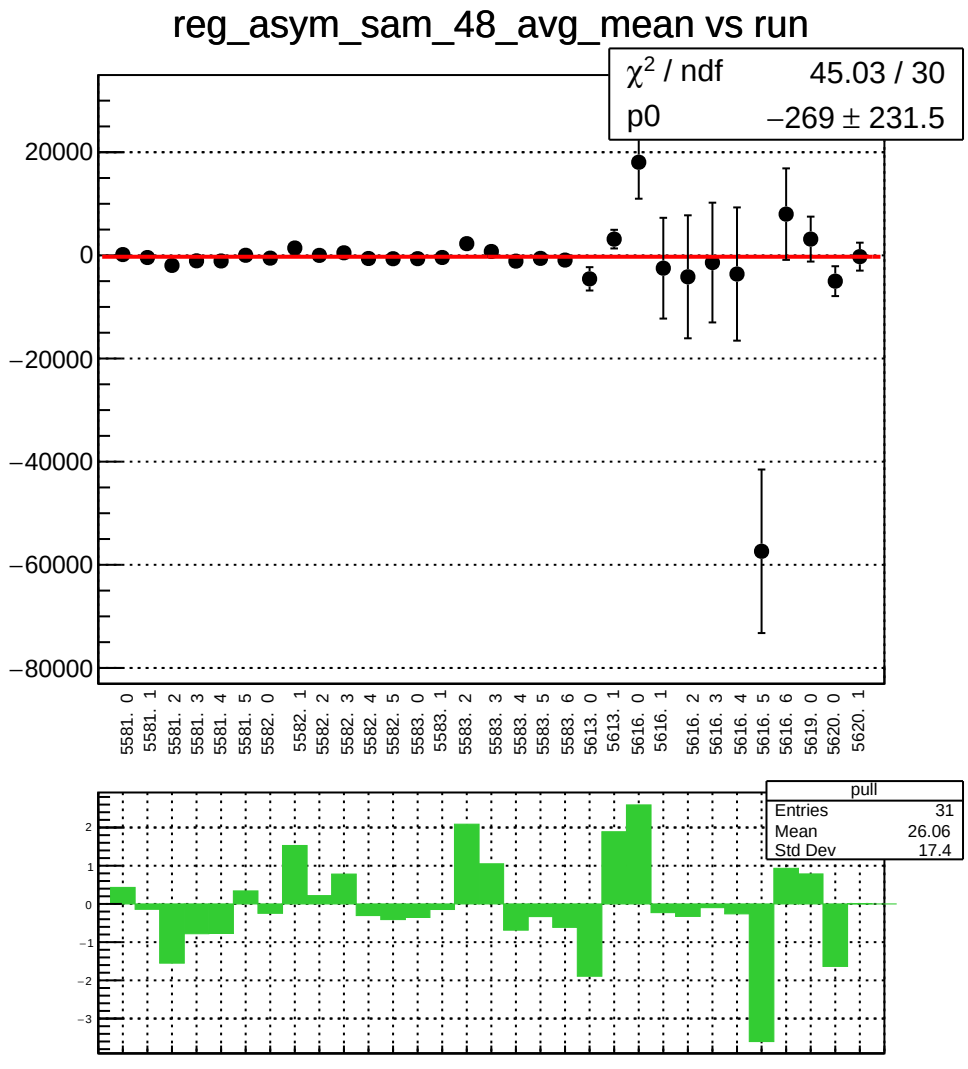

asym_sam_37_avg_correction_mean vs run
χ² / ndf 36.61 / 30
p0 −2656 ± 1956
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −1.663
Std Dev 35.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01949
Std Dev 1.087
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

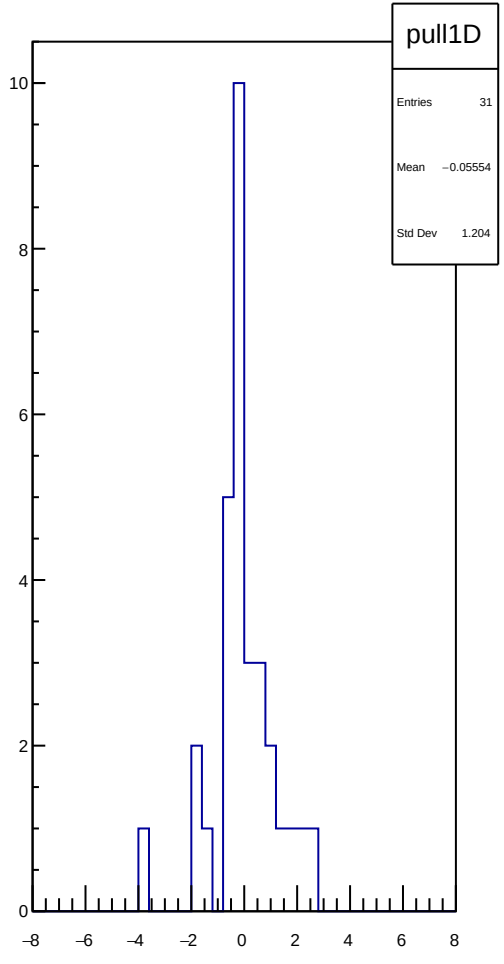

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.555e+04 / 30
p0 1064 ± 1.383
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

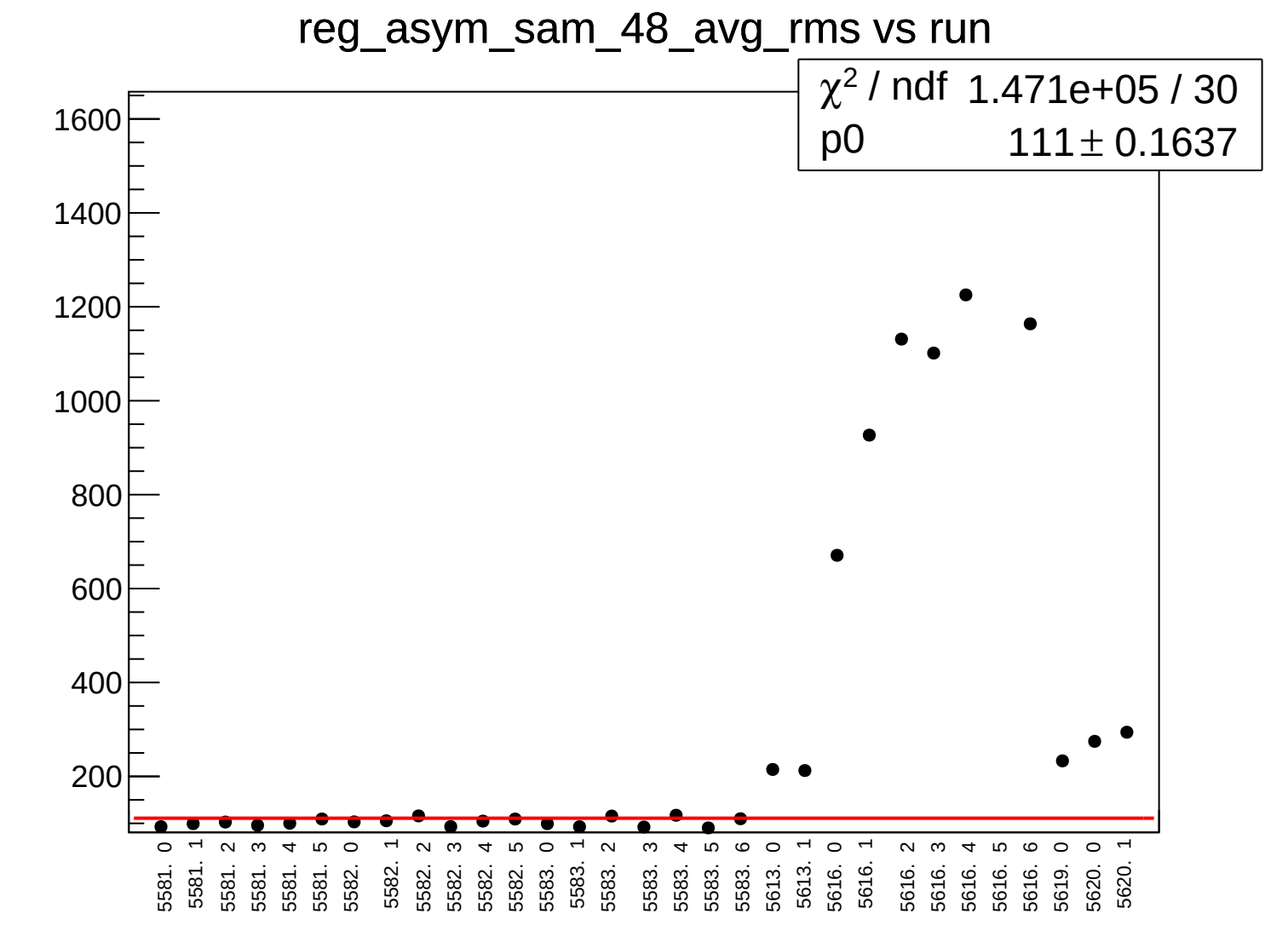

asym_sam_37_avg_mean vs run
χ² / ndf 40.46 / 30
p0 2423 ± 1992
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 11.68
Std Dev 18.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

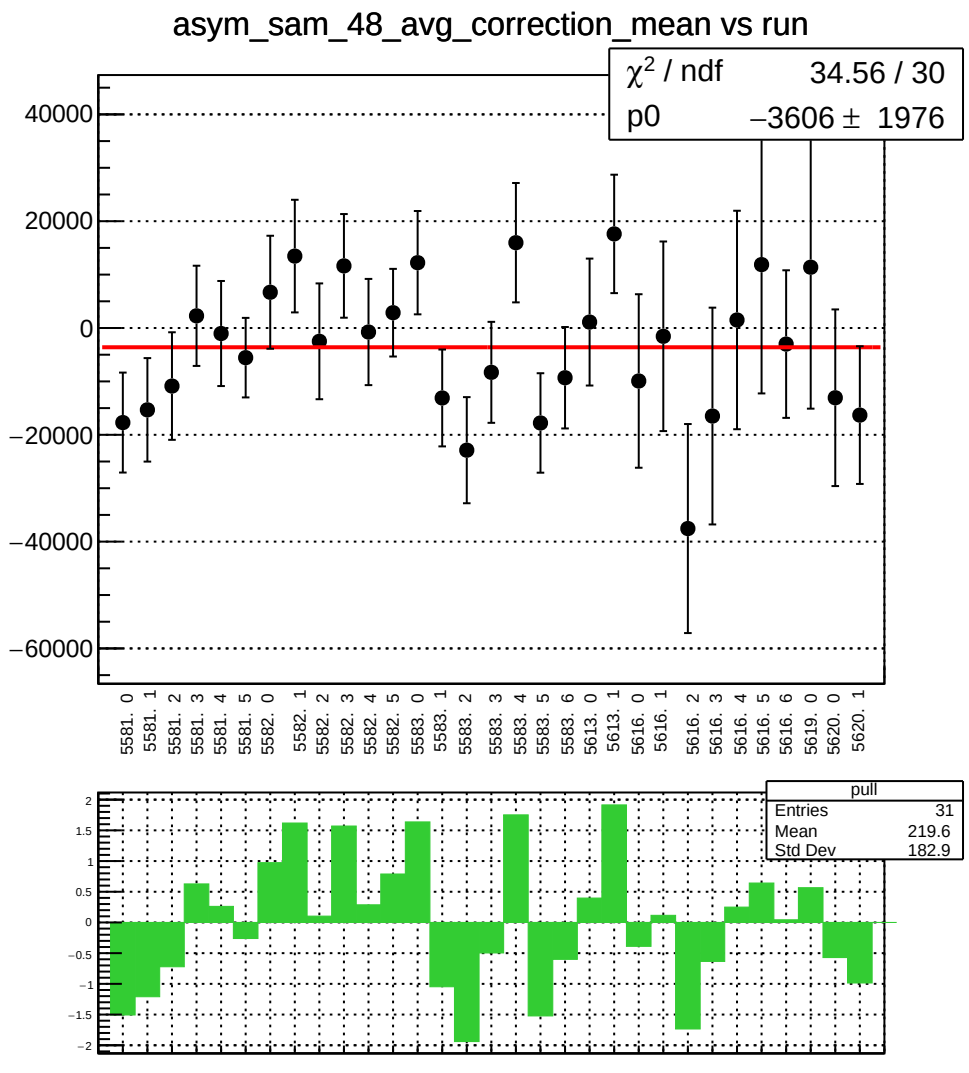

pull1D
Entries 31
Mean −0.04287
Std Dev 1.142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

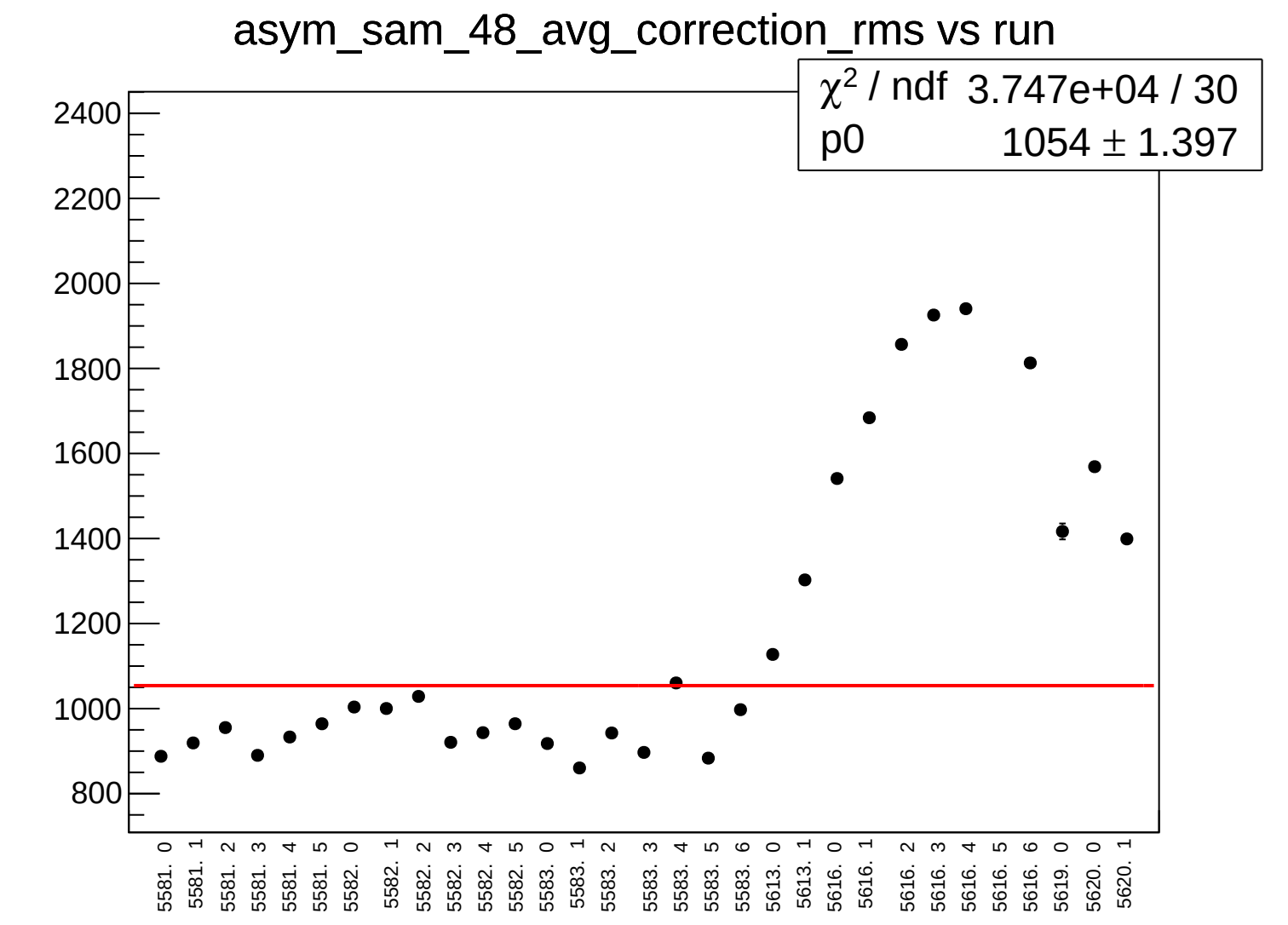

asym_sam_37_avg_rms vs run
χ² / ndf 2.229e+04 / 30
p0 1077 ± 1.409
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

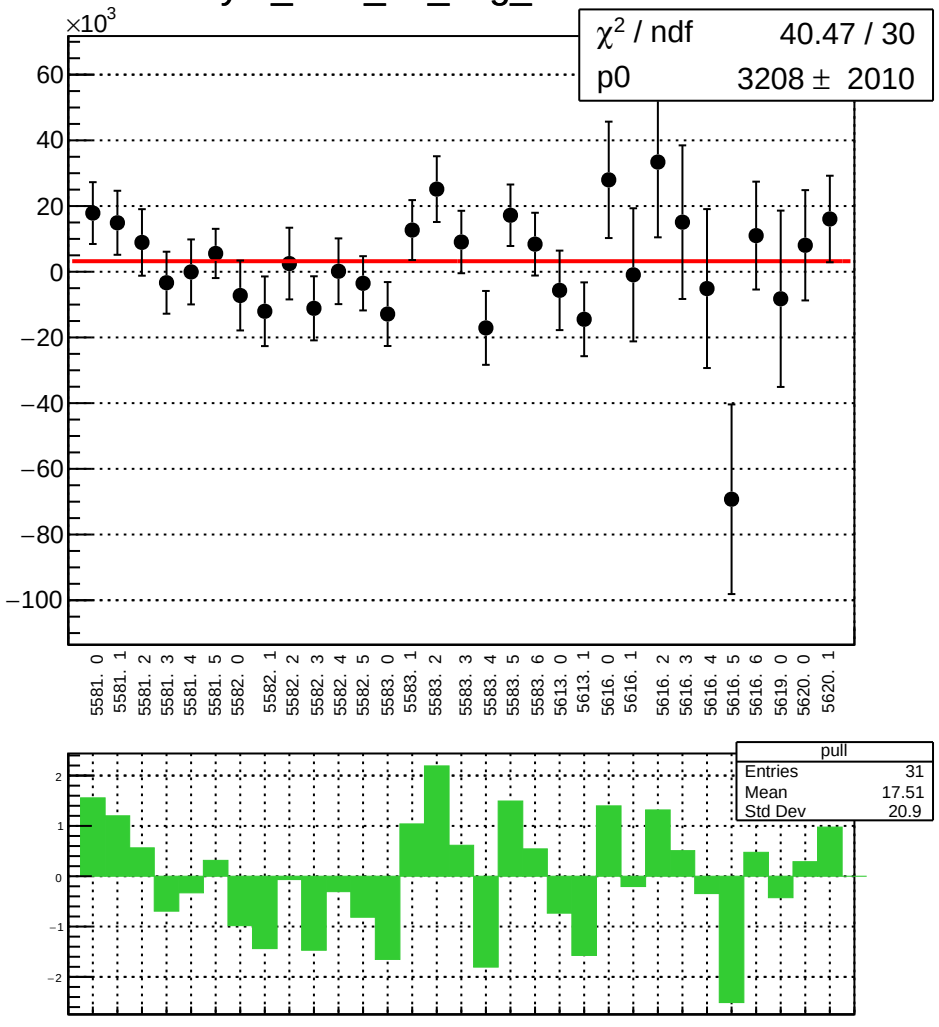

reg_asym_sam_48_avg_mean vs run
χ² / ndf 45.03 / 30
p0 −269 ± 231.5
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 26.06
Std Dev 17.4
2
1
0
−1
−2
−3

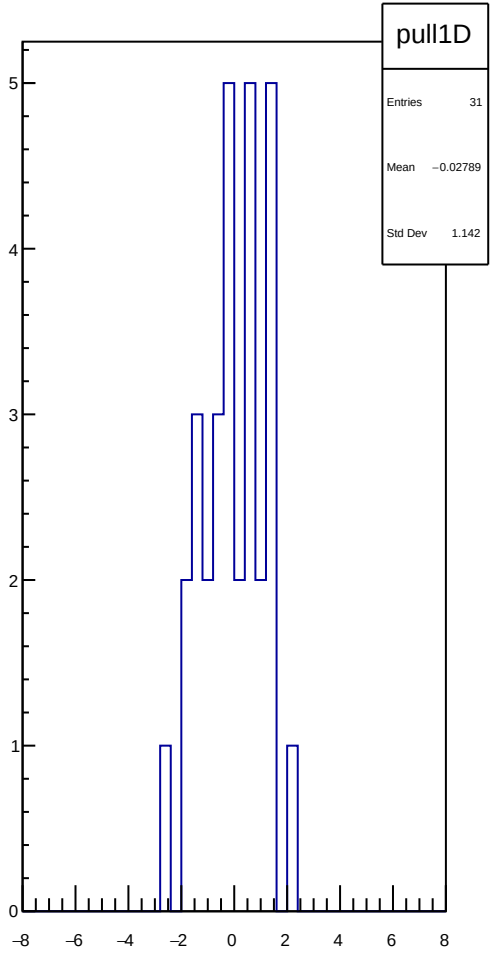

pull1D
Entries 31
Mean −0.05554
Std Dev 1.204
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

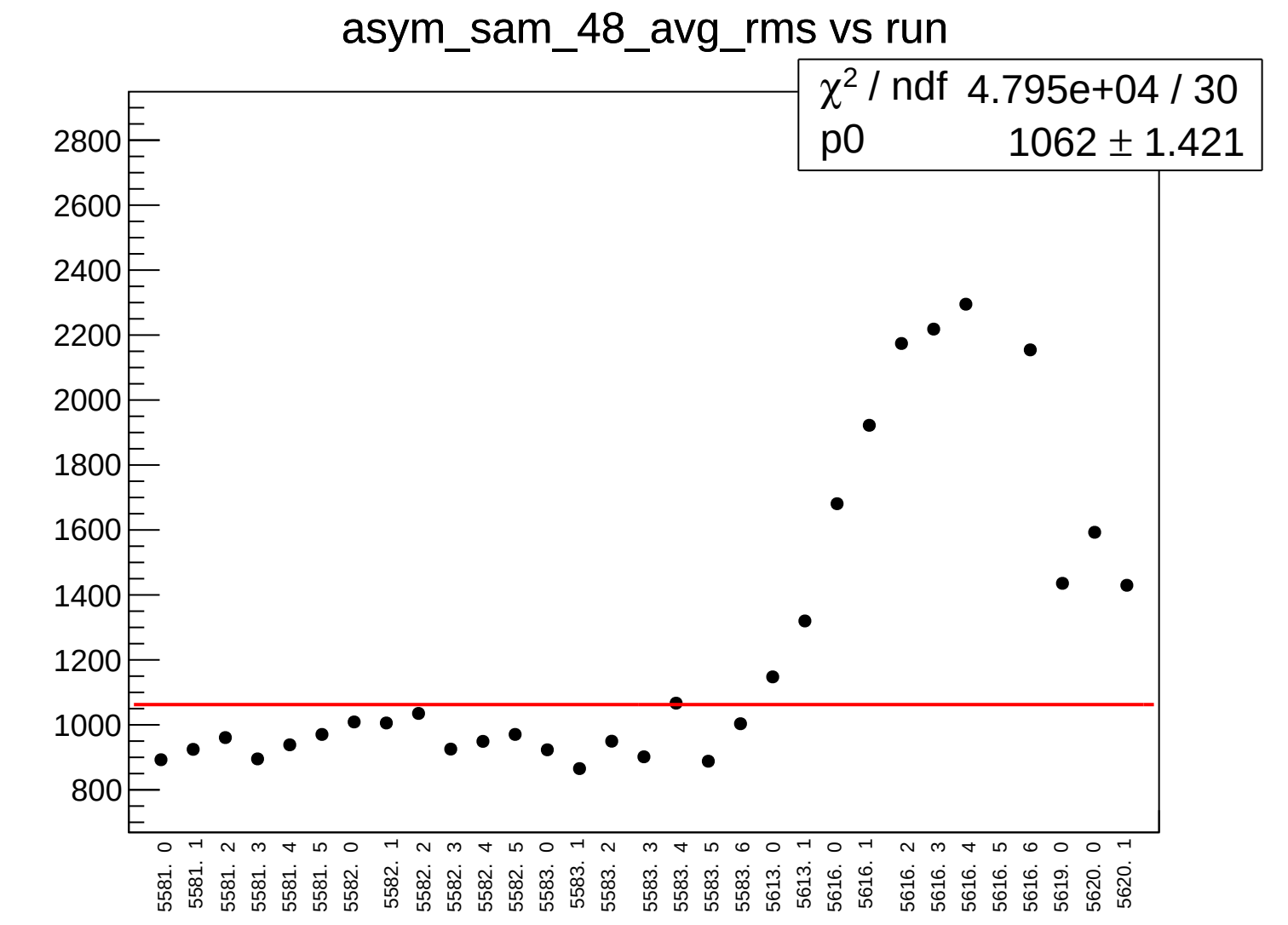

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.471e+05 / 30
p0 111 ± 0.1637
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

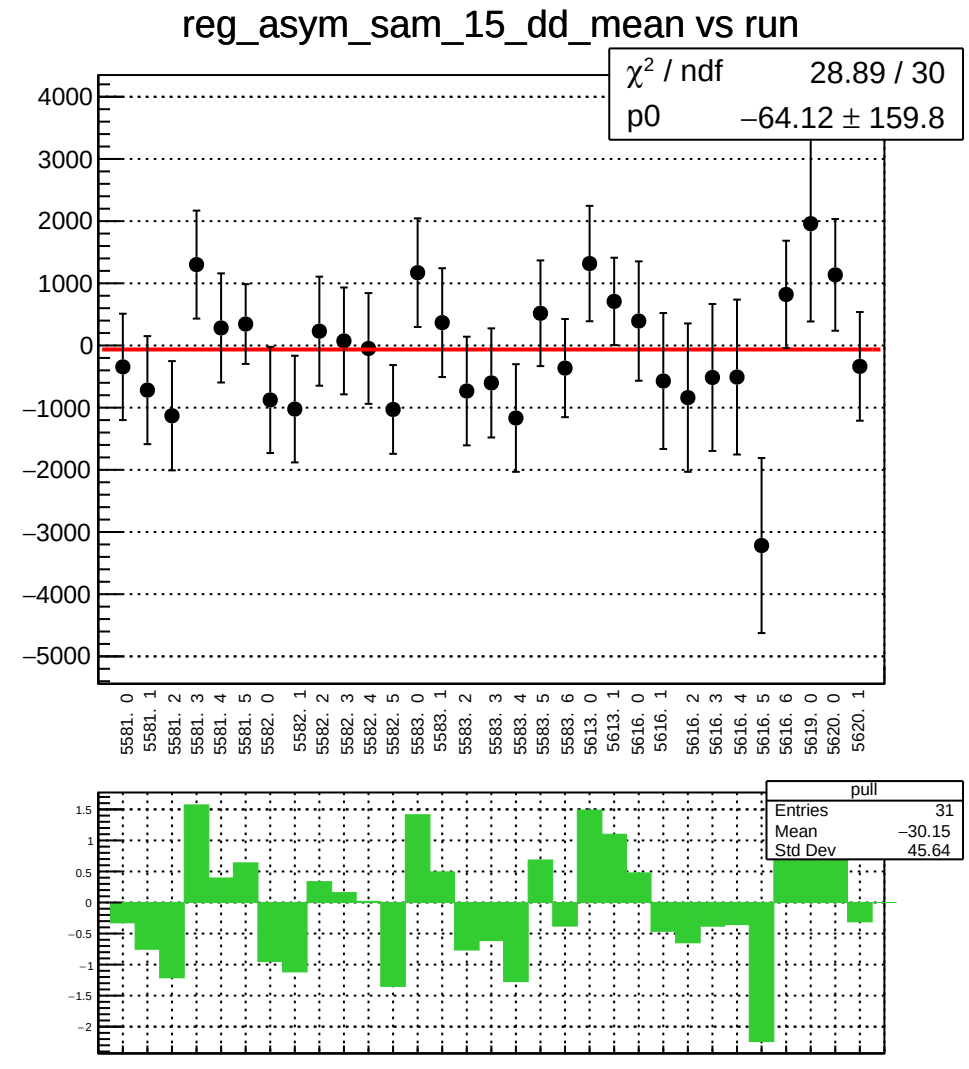

asym_sam_48_avg_correction_mean vs run
χ² / ndf 34.56 / 30
p0 −3606 ± 1976
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 219.6
Std Dev 182.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.00231
Std Dev 1.056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

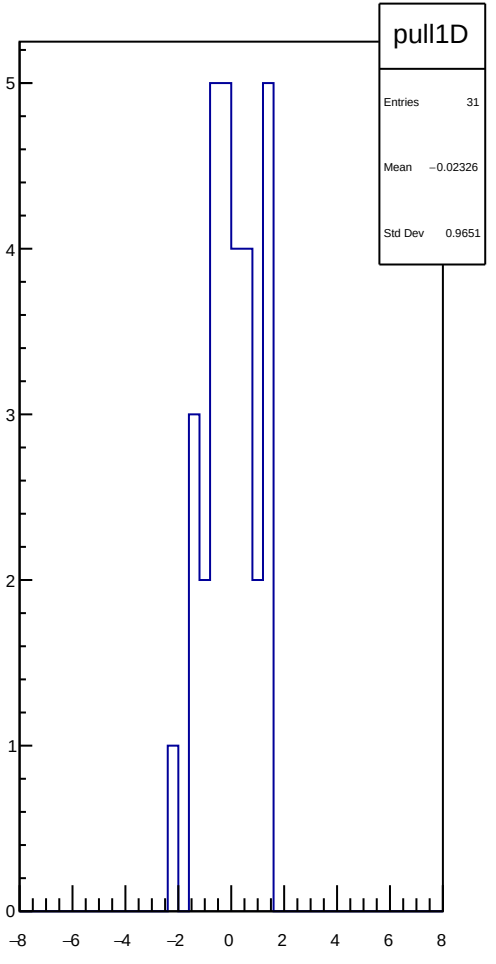

asym_sam_48_avg_correction_rms vs run
χ² / ndf 3.747e+04 / 30
p0 1054 ± 1.397
2400
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

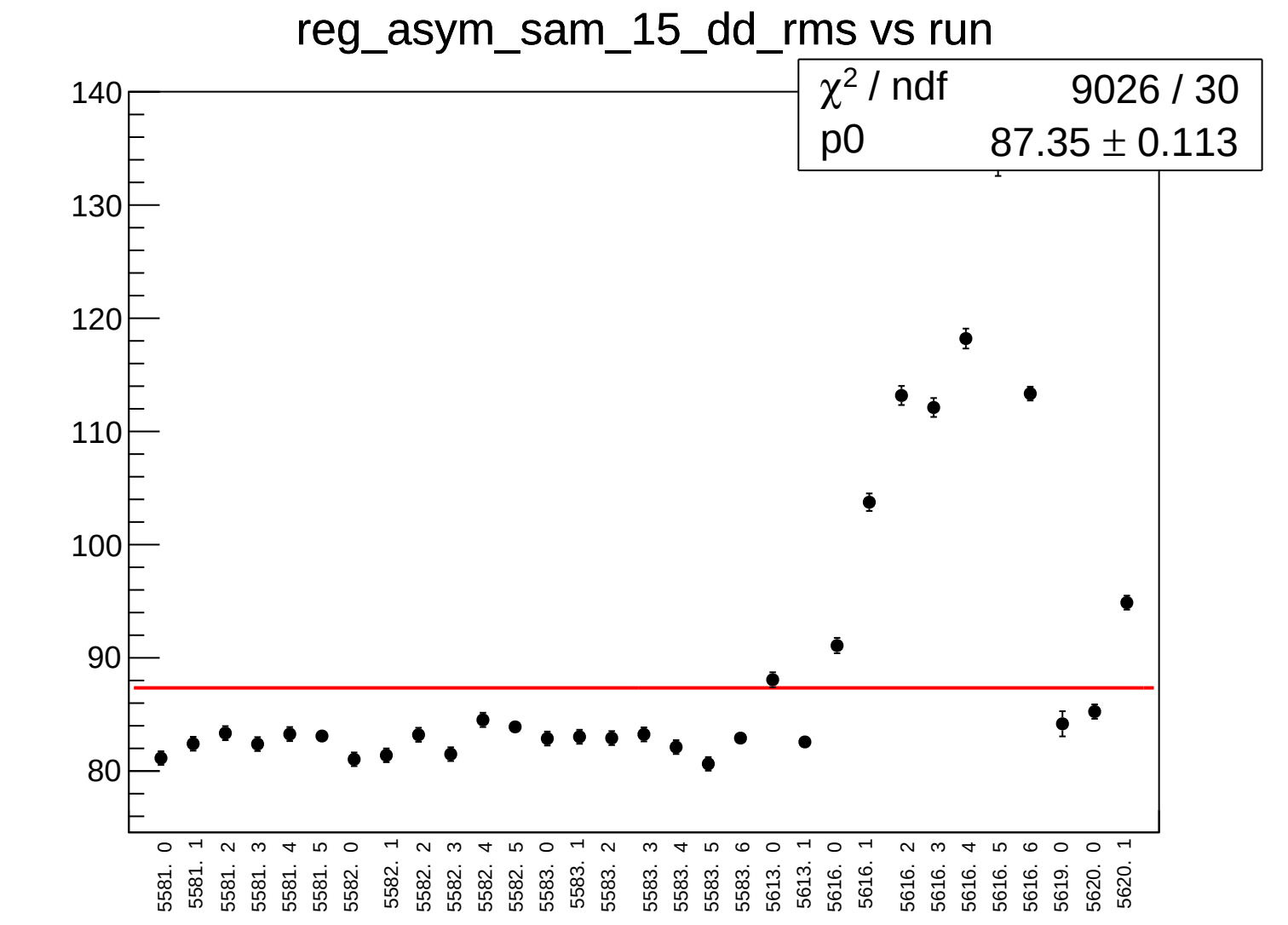

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 40.47 / 30
p0 3208 ± 2010
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.51
Std Dev 20.9
2
1
0
−1
−2

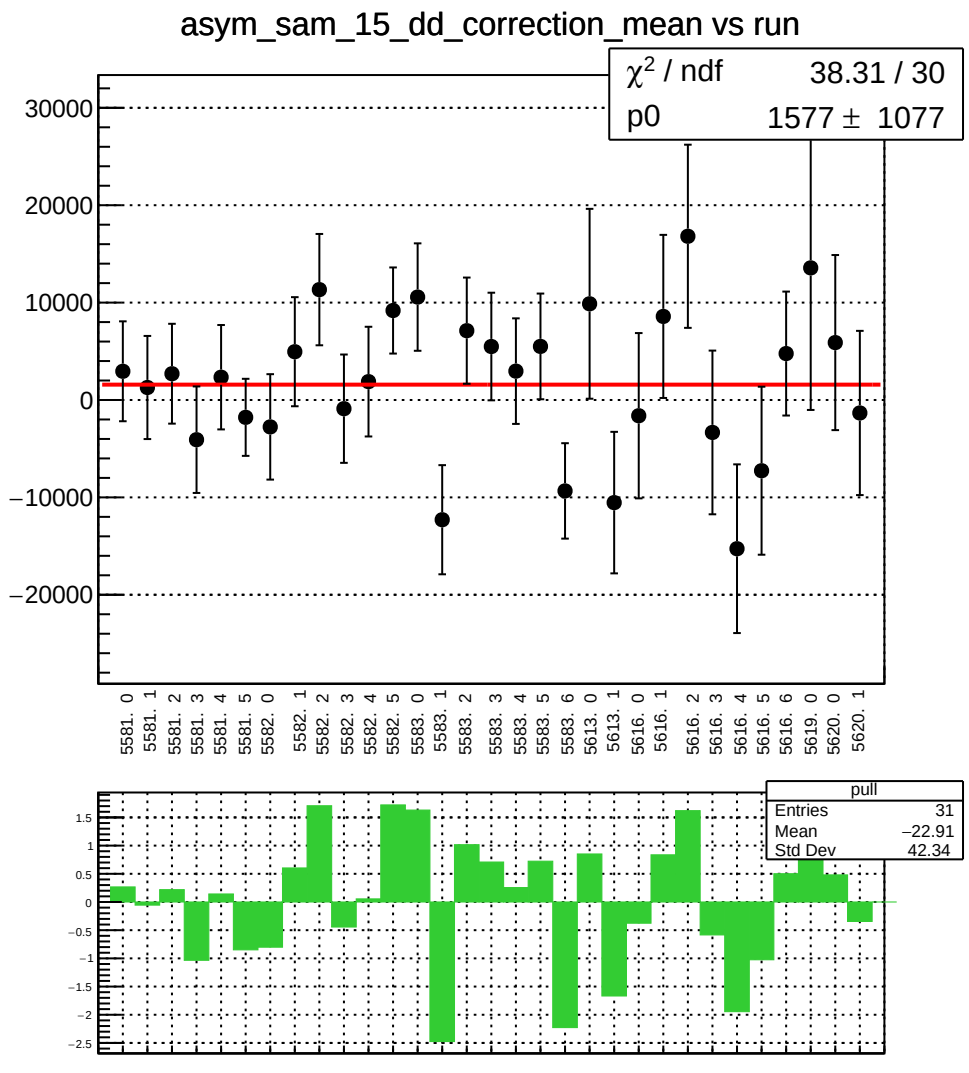

pull1D
Entries 31
Mean −0.02789
Std Dev 1.142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

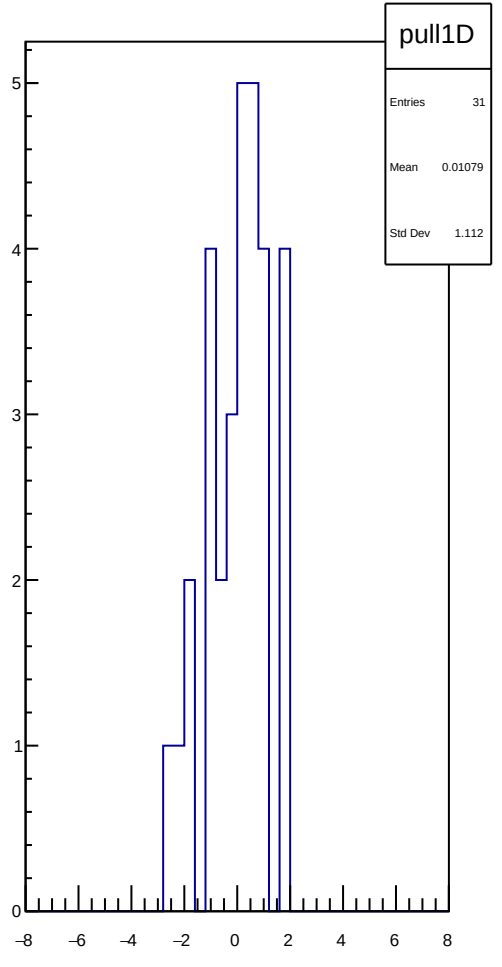

asym_sam_48_avg_rms vs run
χ² / ndf 4.795e+04 / 30
p0 1062 ± 1.421
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

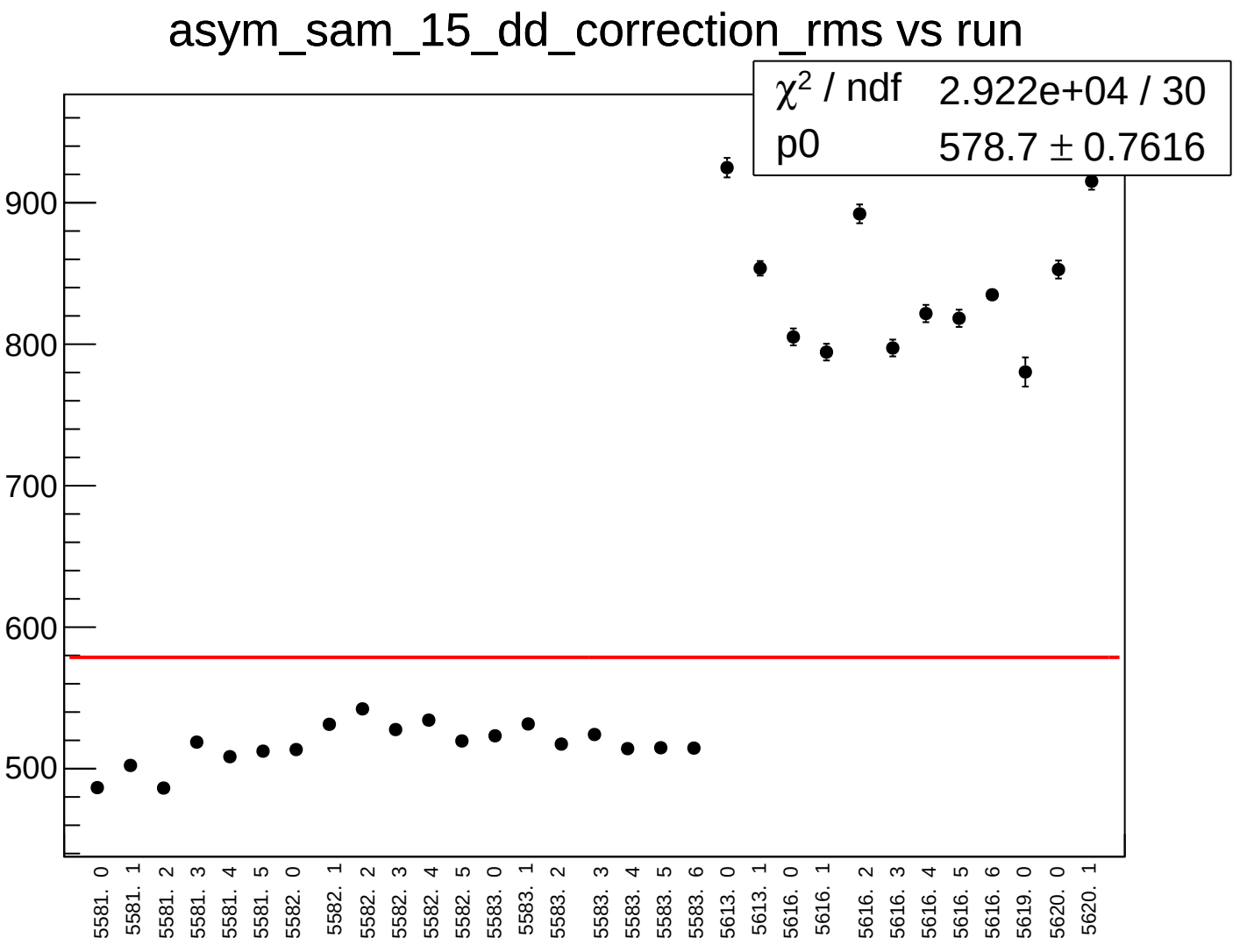

reg_asym_sam_15_dd_mean vs run
χ² / ndf 28.89 / 30
p0 −64.12 ± 159.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −30.15
Std Dev 45.64
1.5
1
0.5
0
−0.5
−1
−1.5
−2

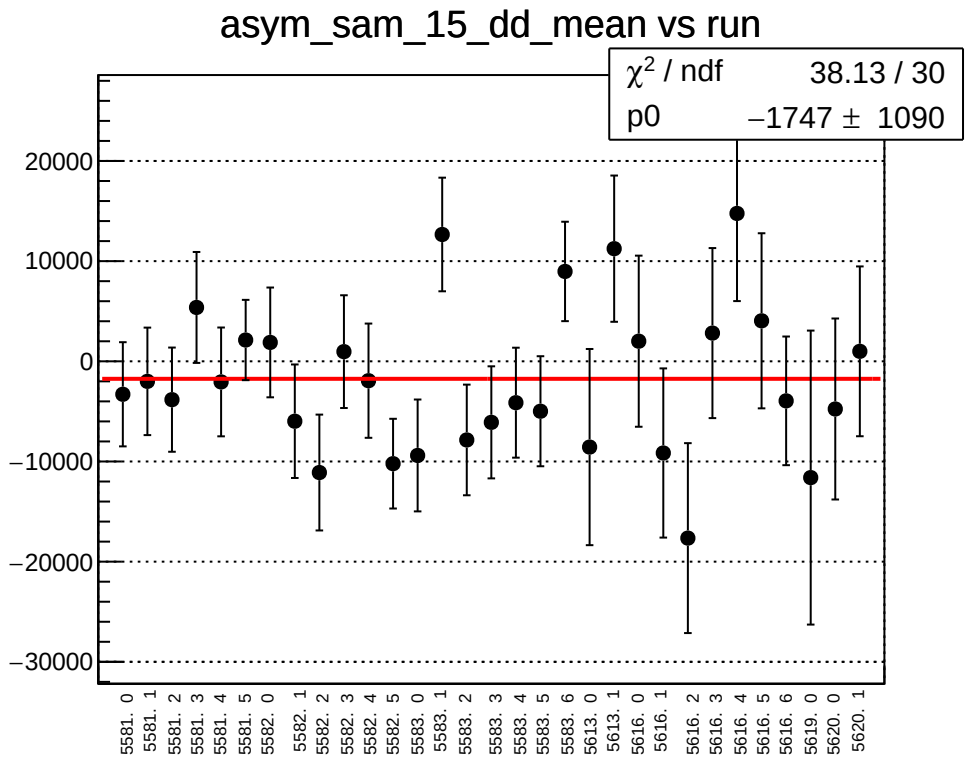

pull1D
Entries 31
Mean −0.02326
Std Dev 0.9651
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

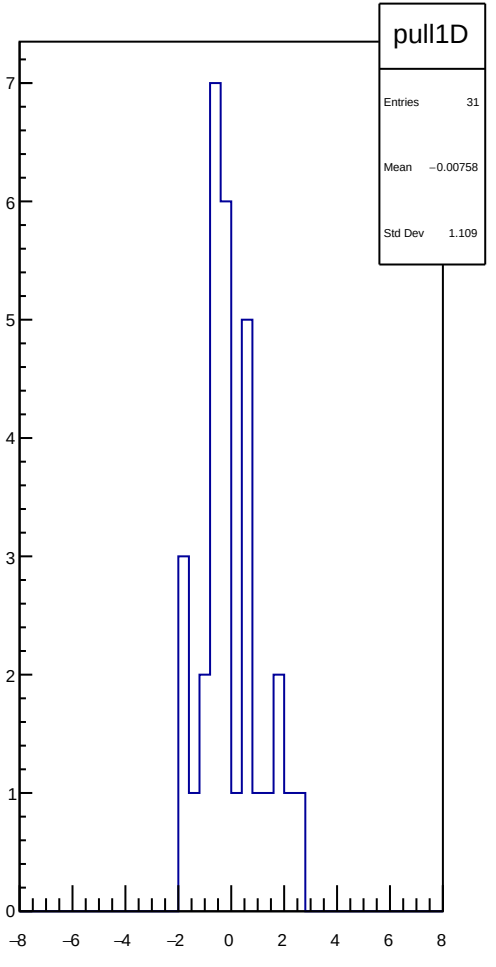

reg_asym_sam_15_dd_rms vs run
χ² / ndf 9026 / 30
p0 87.35 ± 0.113
140
130
120
110
100
90
80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

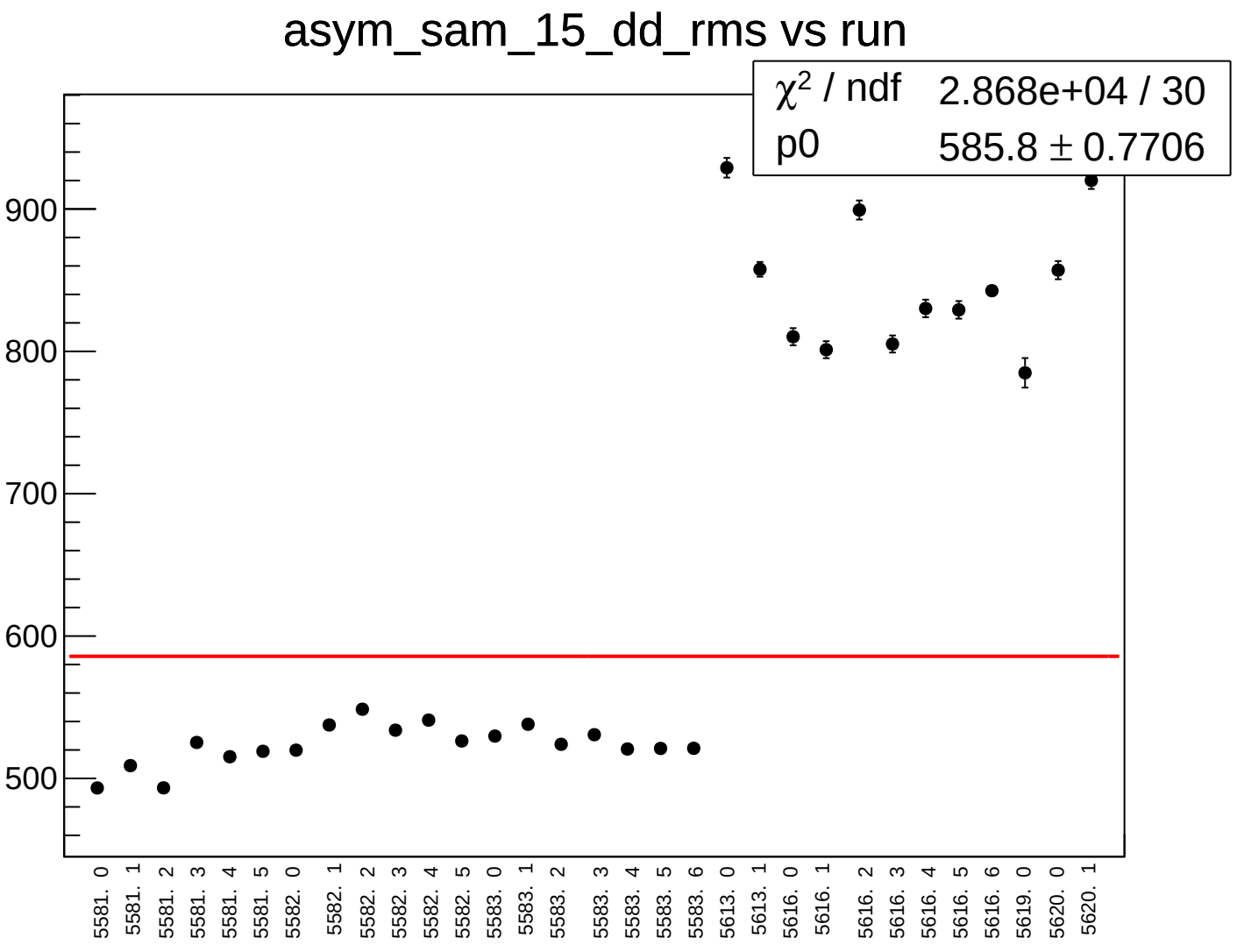

asym_sam_15_dd_correction_mean vs run
χ² / ndf 38.31 / 30
p0 1577 ± 1077
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −22.91
Std Dev 42.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

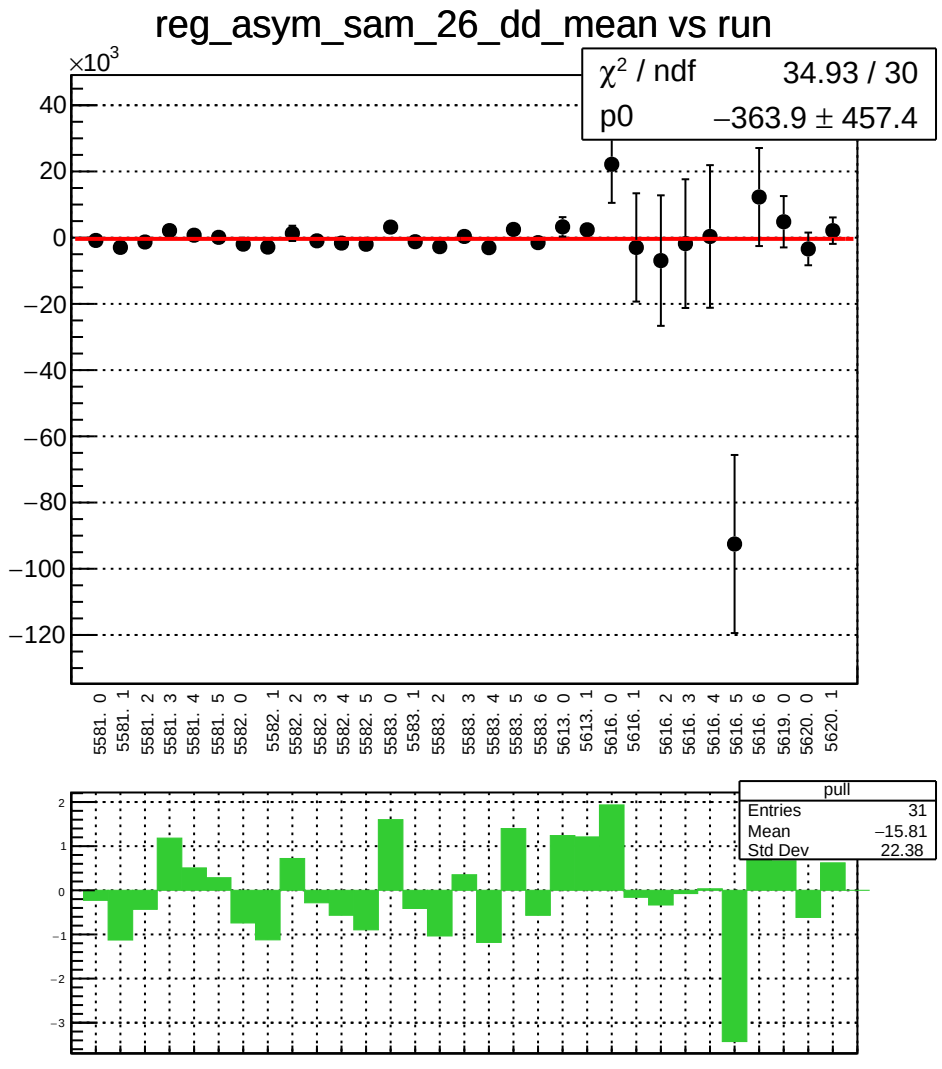

pull1D
Entries 31
Mean 0.01079
Std Dev 1.112
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

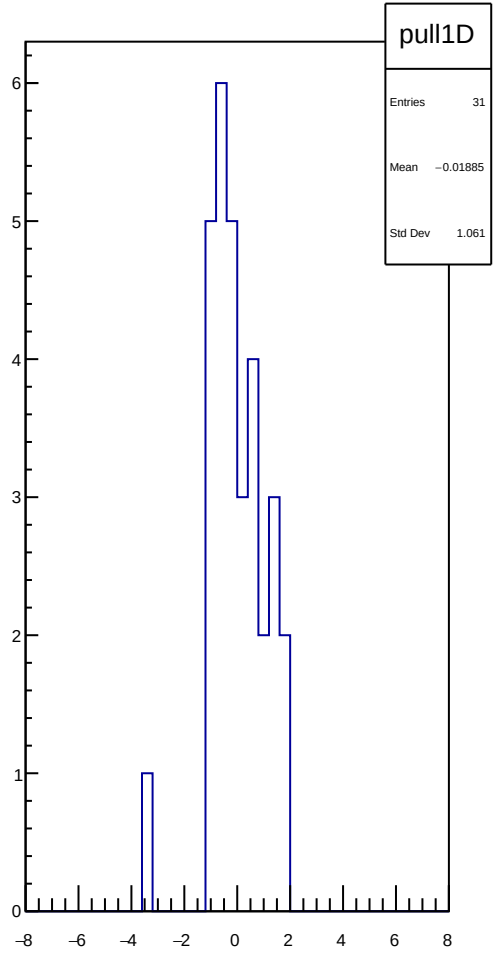

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2.922e+04 / 30
p0 578.7 ± 0.7616
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

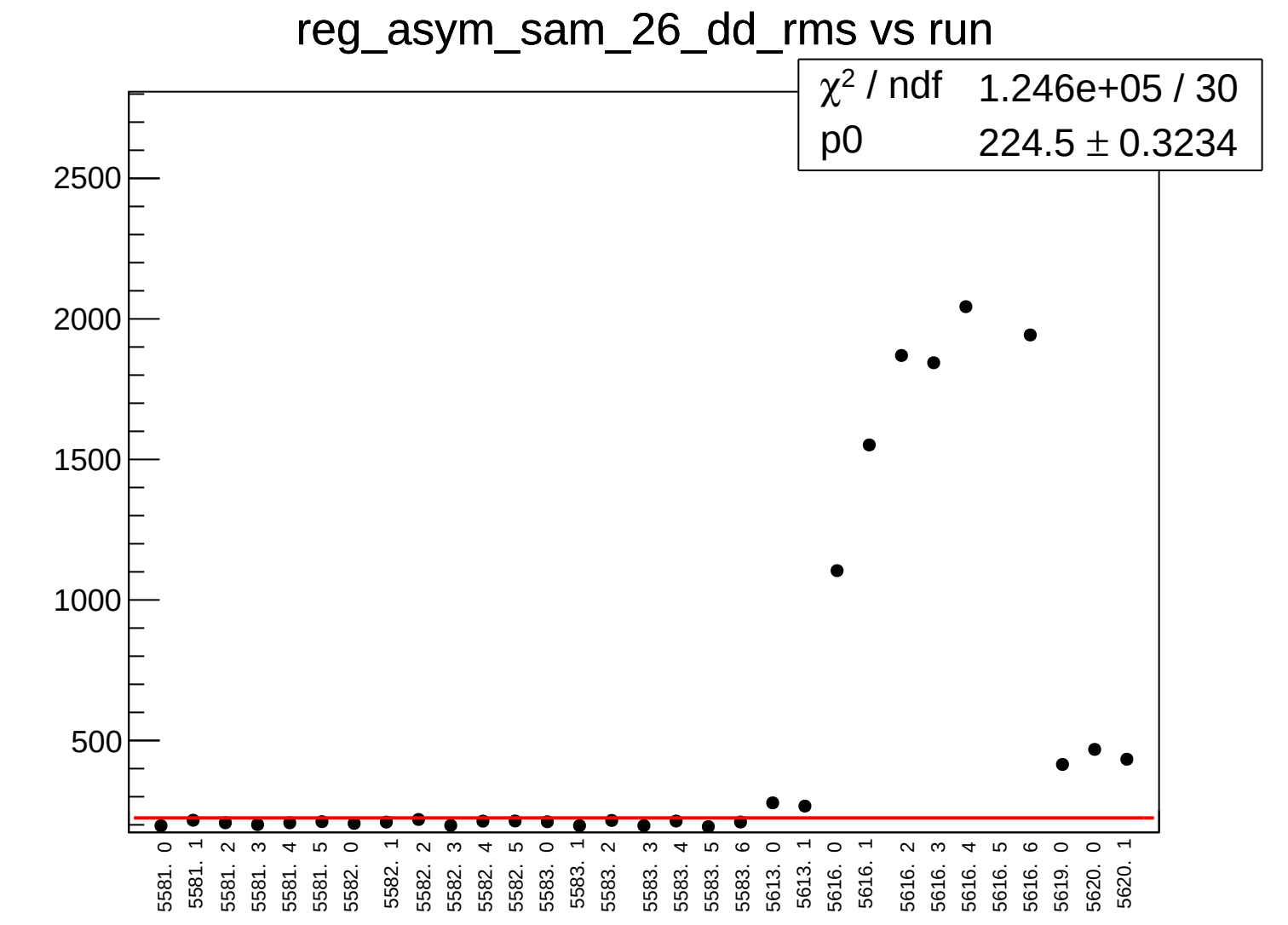

asym_sam_15_dd_mean vs run
χ² / ndf 38.13 / 30
p0 −1747 ± 1090
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −46.4
Std Dev 65.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

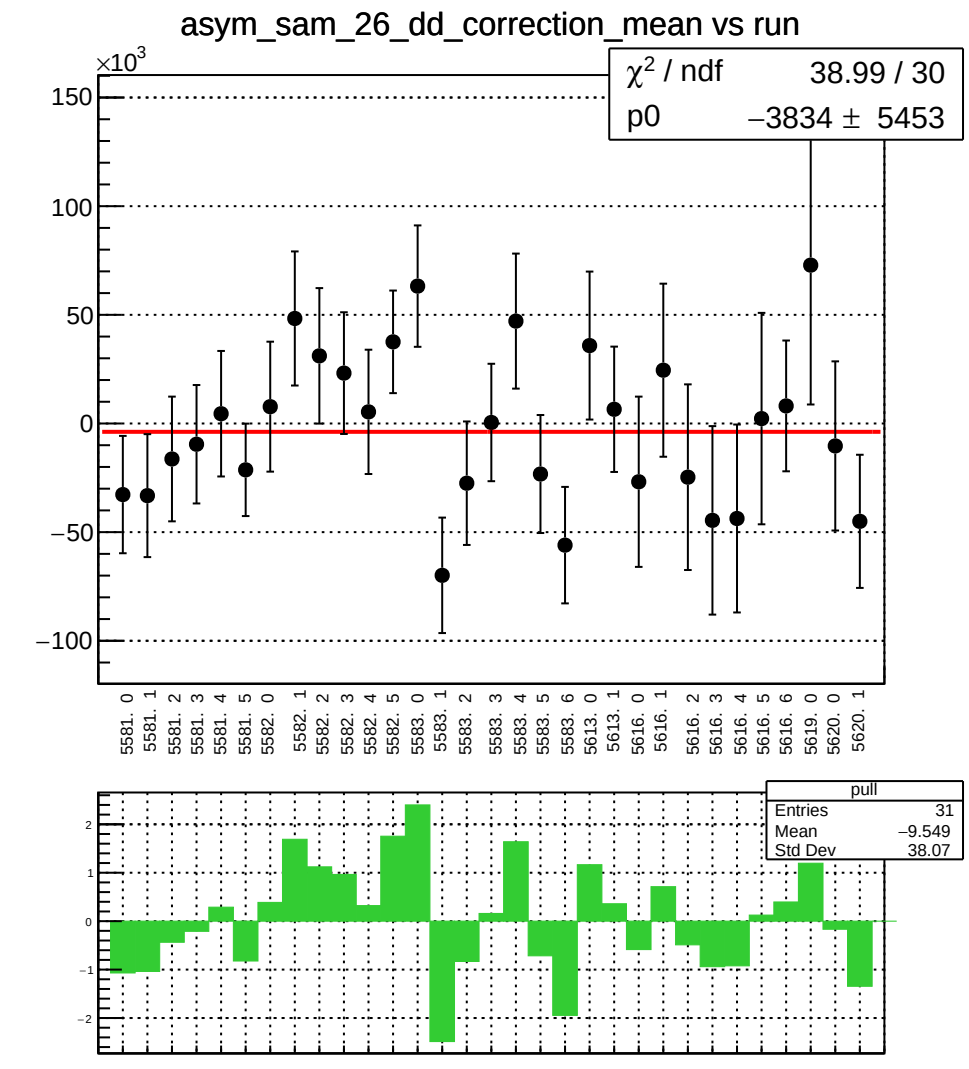

pull1D
Entries 31
Mean −0.00758
Std Dev 1.109
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

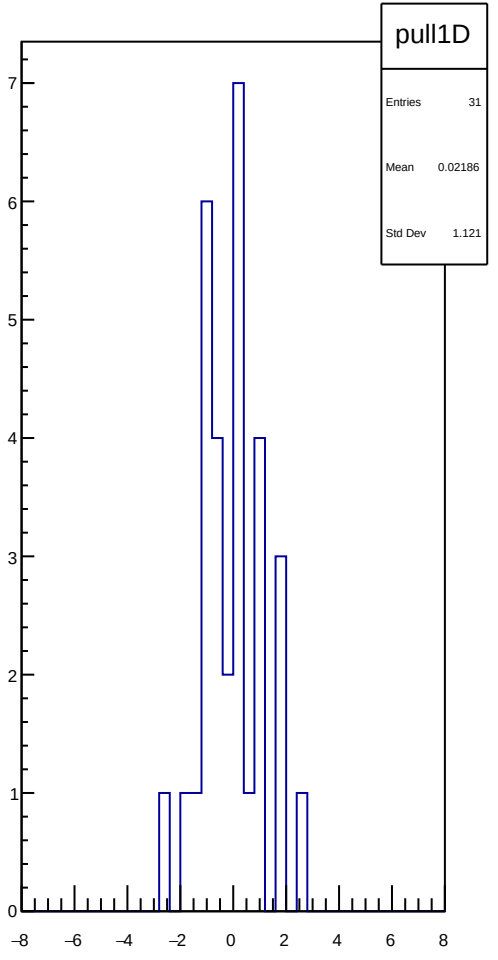

asym_sam_15_dd_rms vs run
χ² / ndf 2.868e+04 / 30
p0 585.8 ± 0.7706
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

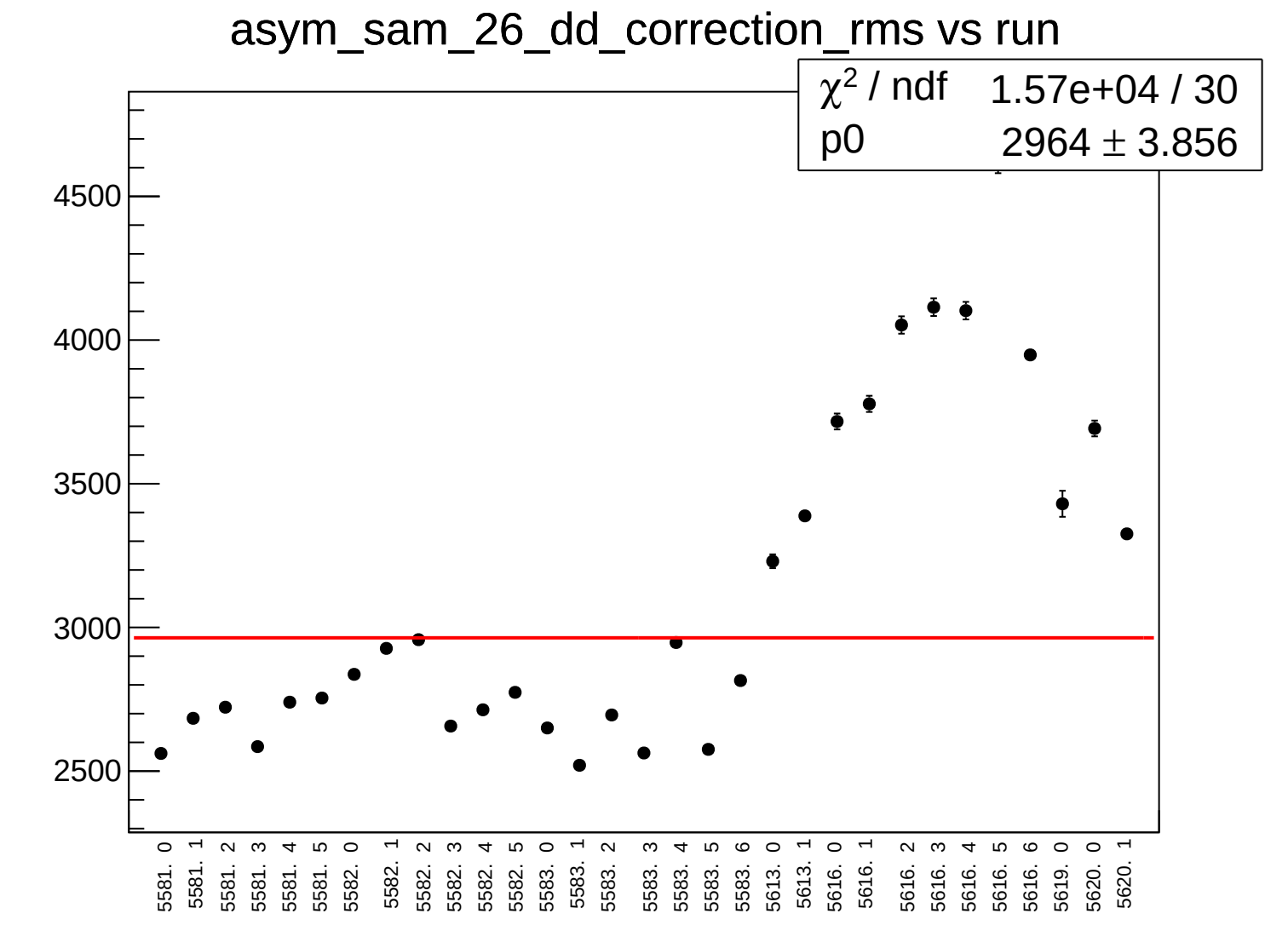

reg_asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 34.93 / 30
p0 −363.9 ± 457.4
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −15.81
Std Dev 22.38
2
1
0
−1
−2
−3

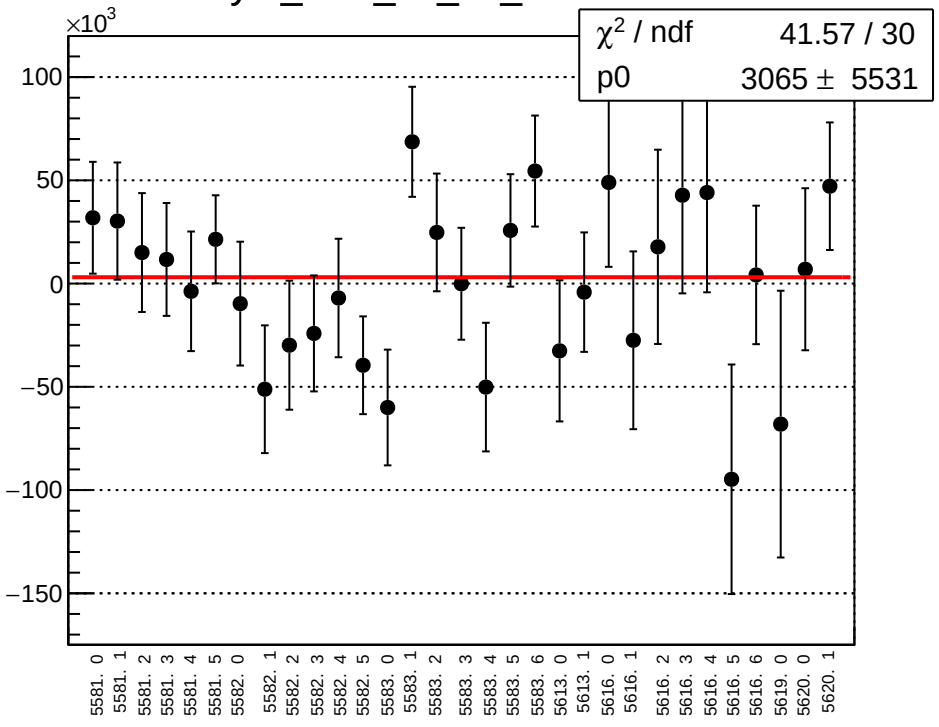

pull1D
Entries 31
Mean −0.01885
Std Dev 1.061
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

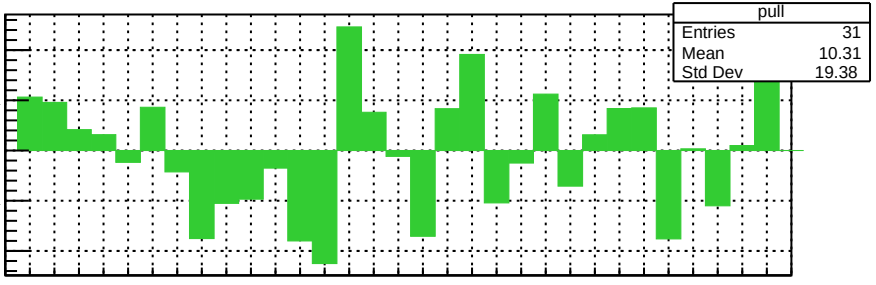

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1.246e+05 / 30
p0 224.5 ± 0.3234
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

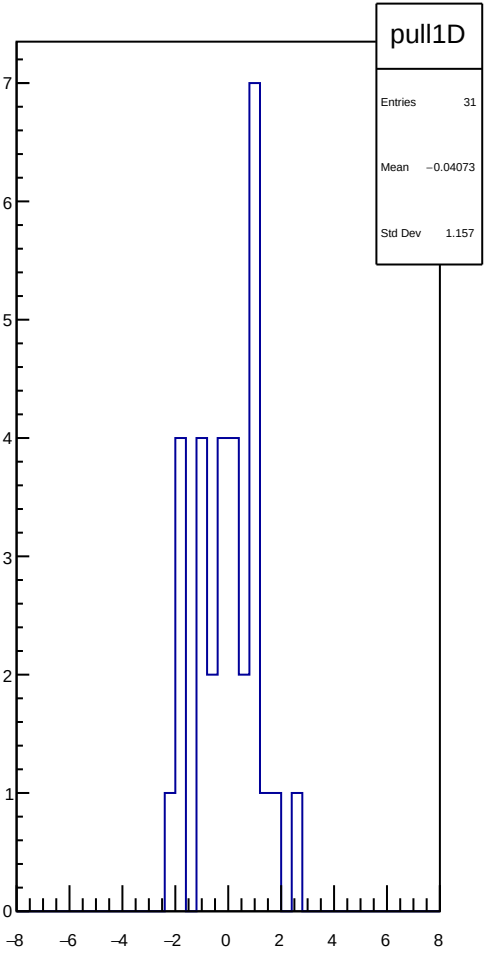

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 38.99 / 30
p0 −3834 ± 5453
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −9.549
Std Dev 38.07
2
1
0
−1
−2

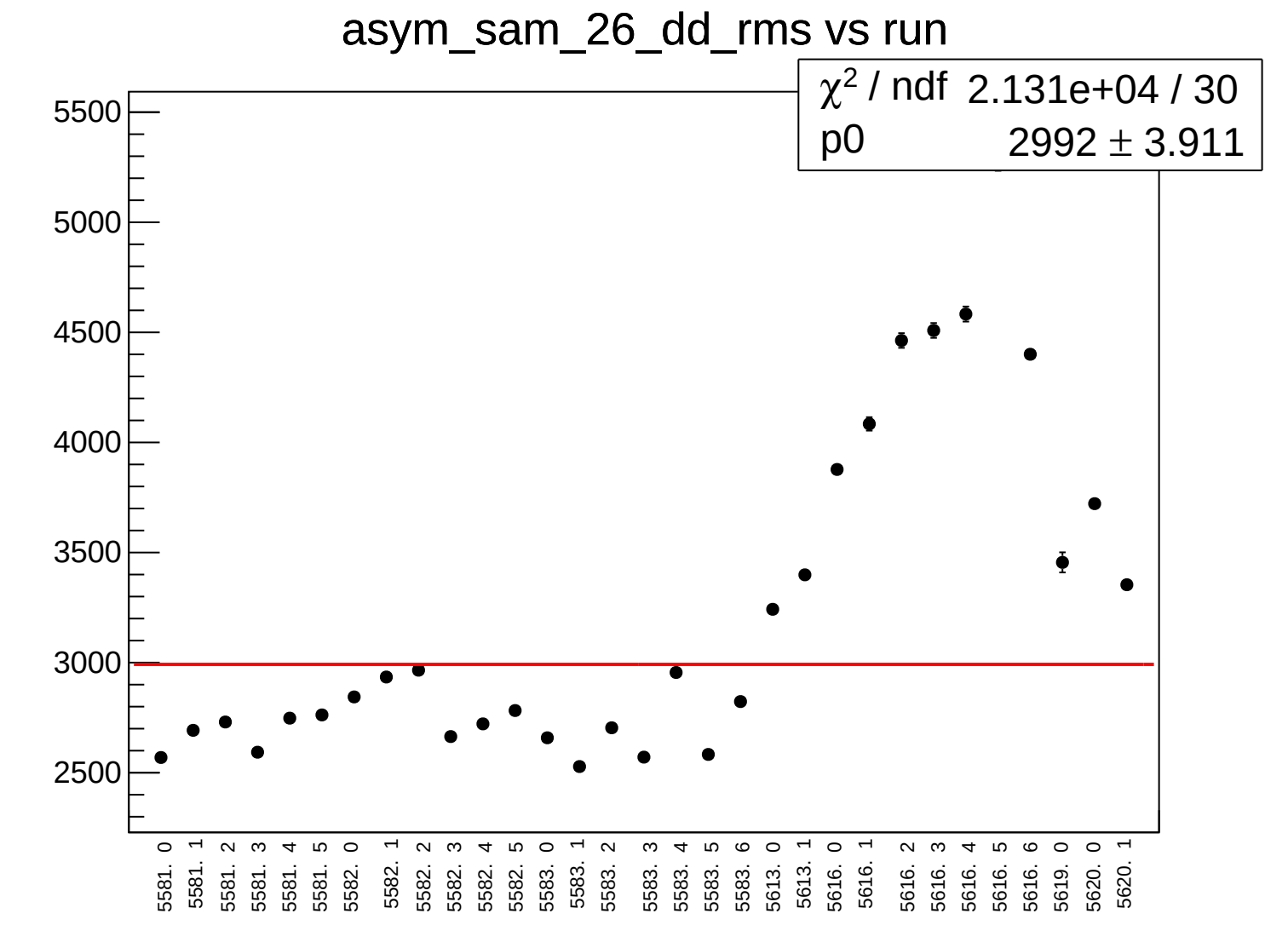

pull1D
Entries 31
Mean 0.02186
Std Dev 1.121
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

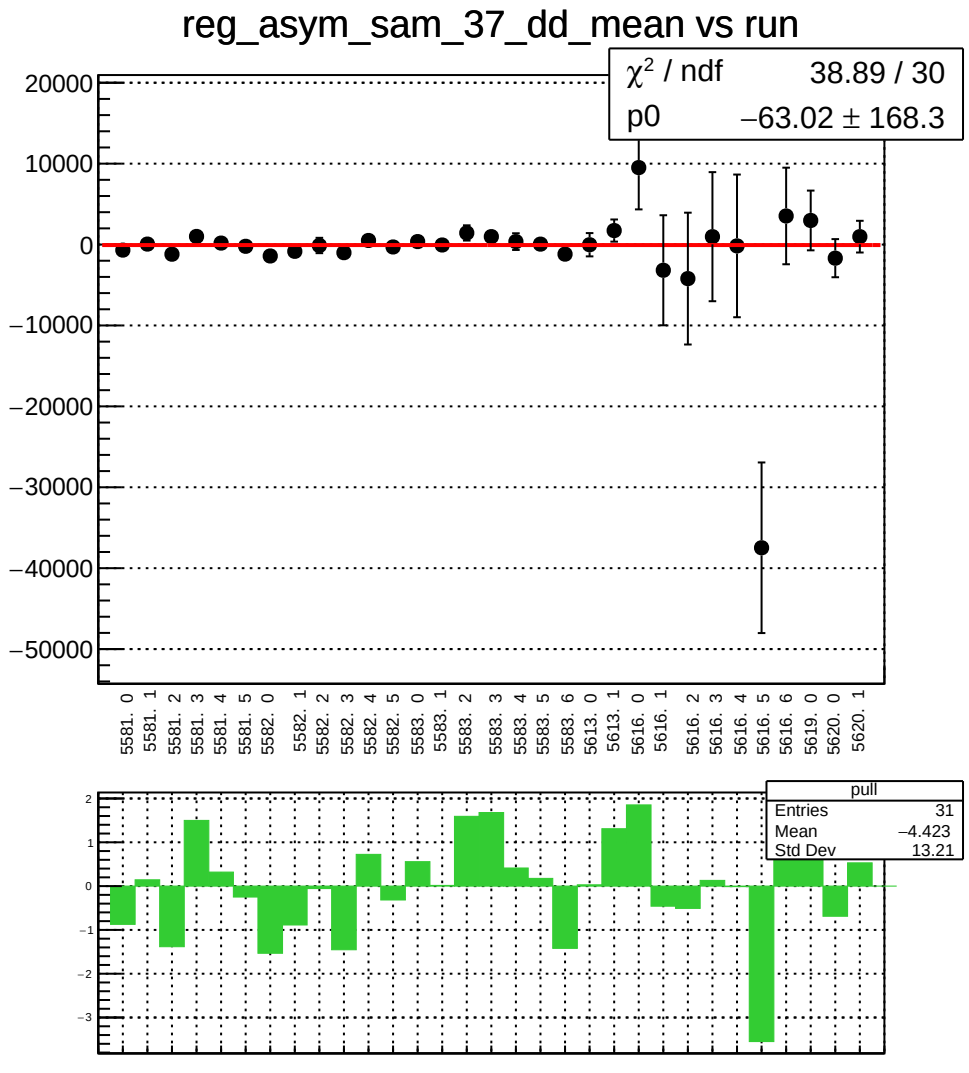

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1.57e+04 / 30
p0 2964 ± 3.856
4500
4000
3500
3000
2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

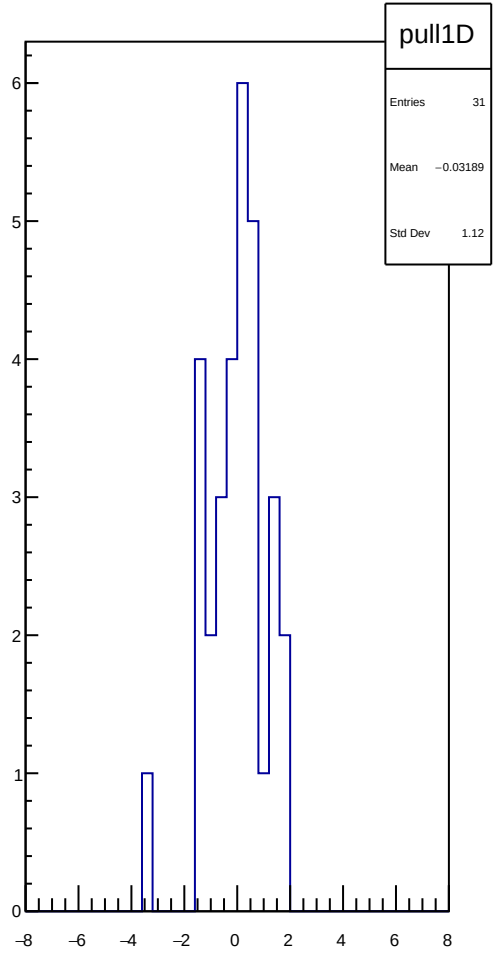

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 41.57 / 30
p0 3065 ± 5531
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

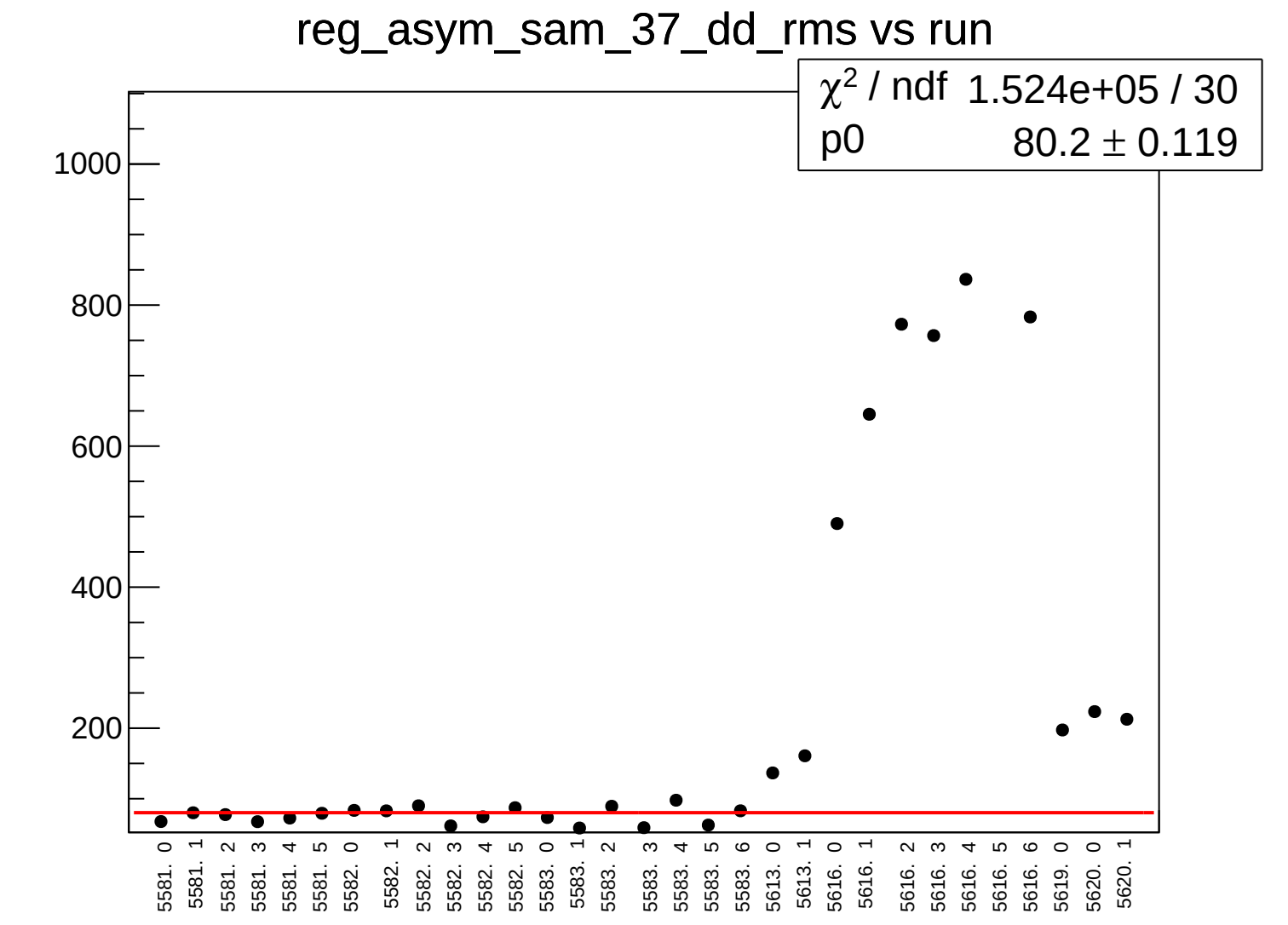

pull
Entries 31
Mean 10.31
Std Dev 19.38
2
1
0
−1
−2

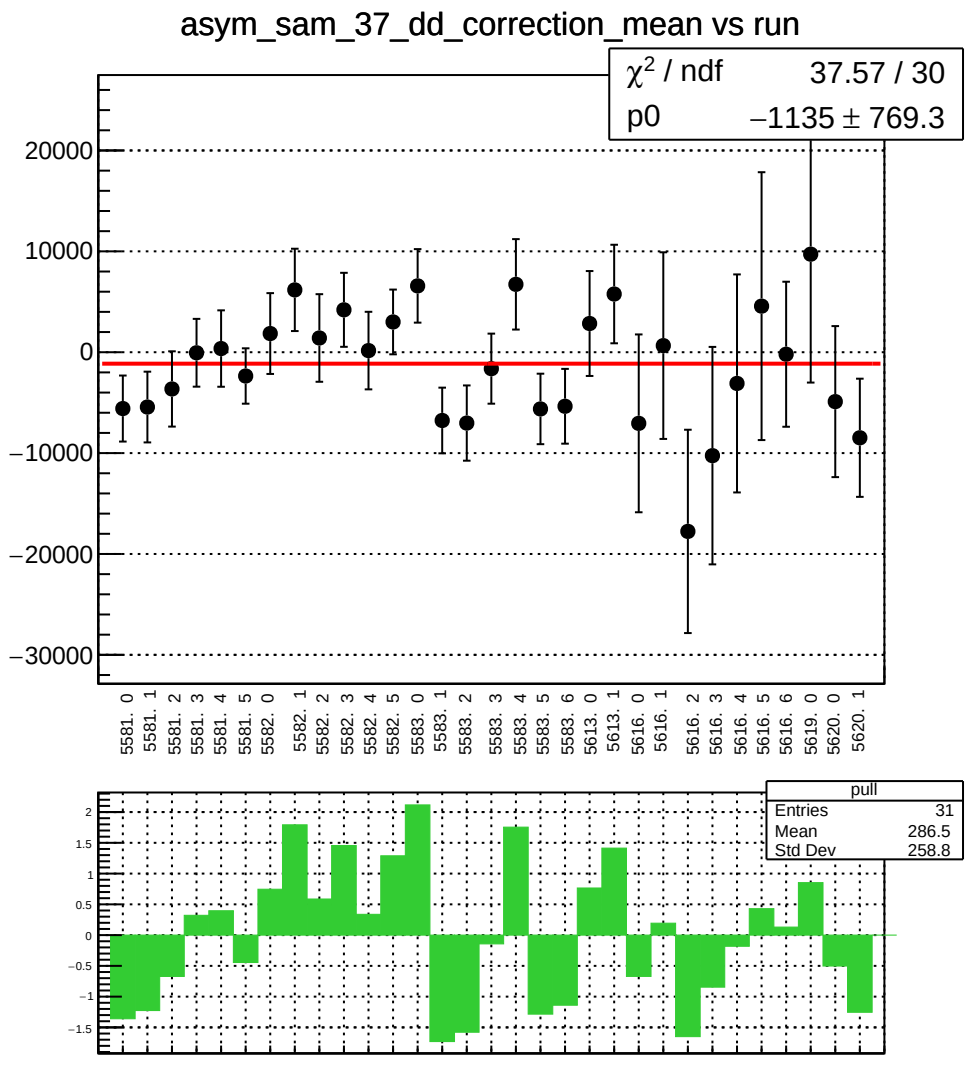

pull1D
Entries 31
Mean −0.04073
Std Dev 1.157
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

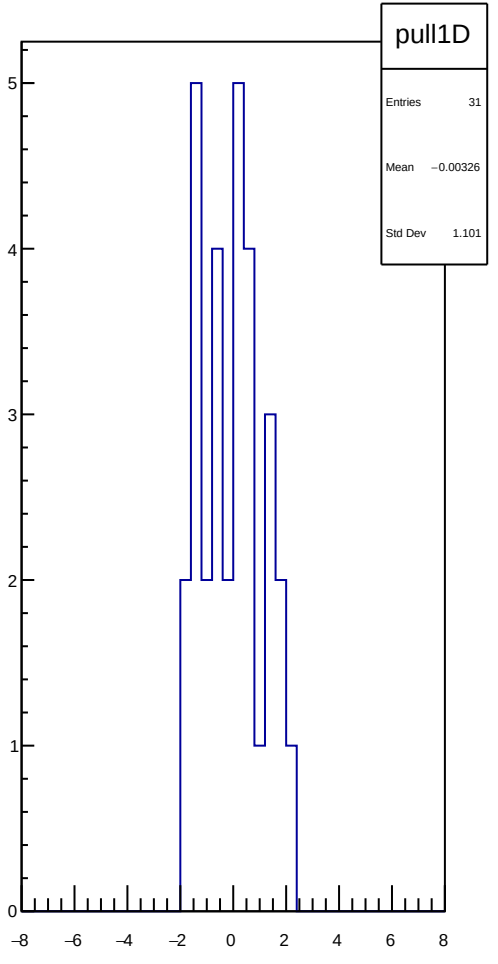

asym_sam_26_dd_rms vs run
χ² / ndf 2.131e+04 / 30
p0 2992 ± 3.911
5500
5000
4500
4000
3500
3000
2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

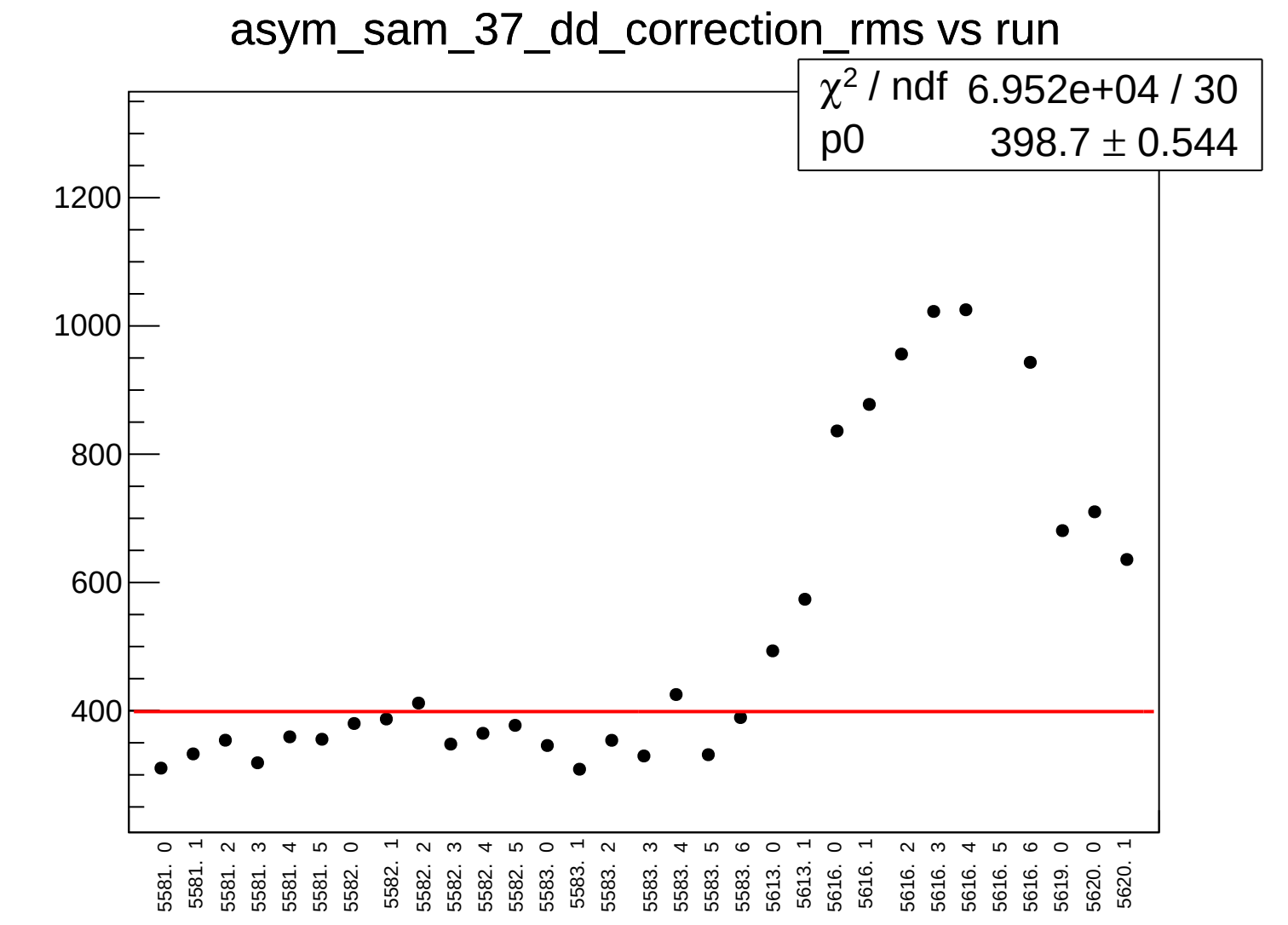

reg_asym_sam_37_dd_mean vs run
χ² / ndf 38.89 / 30
p0 −63.02 ± 168.3
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −4.423
Std Dev 13.21
2
1
0
−1
−2
−3

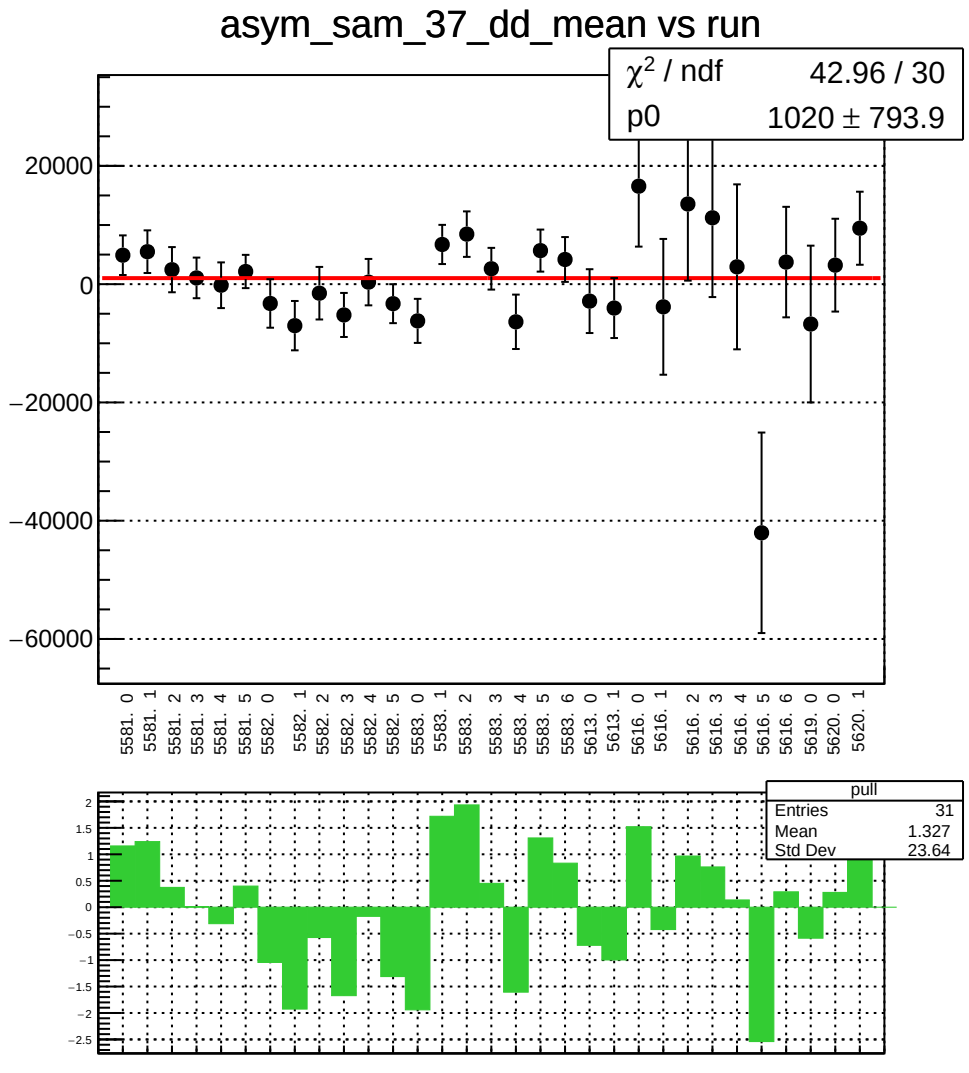

pull1D
Entries 31
Mean −0.03189
Std Dev 1.12
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

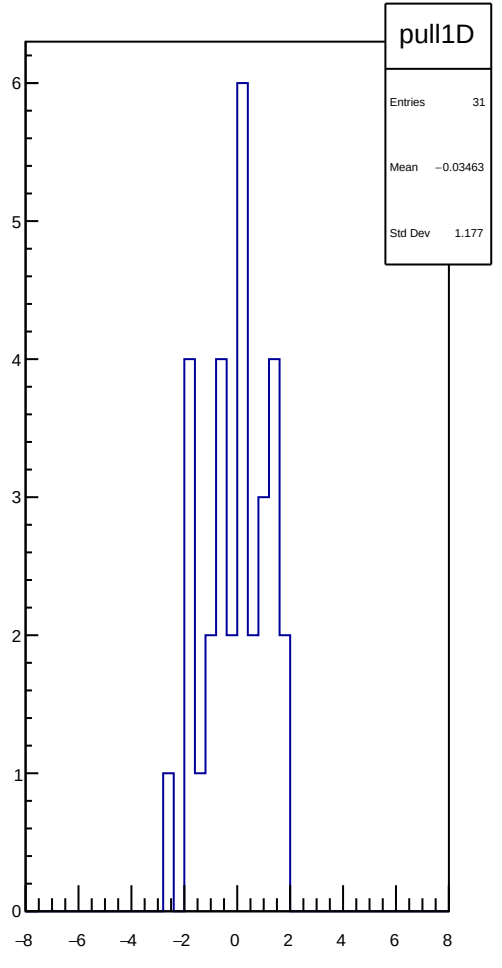

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.524e+05 / 30
p0 80.2 ± 0.119
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

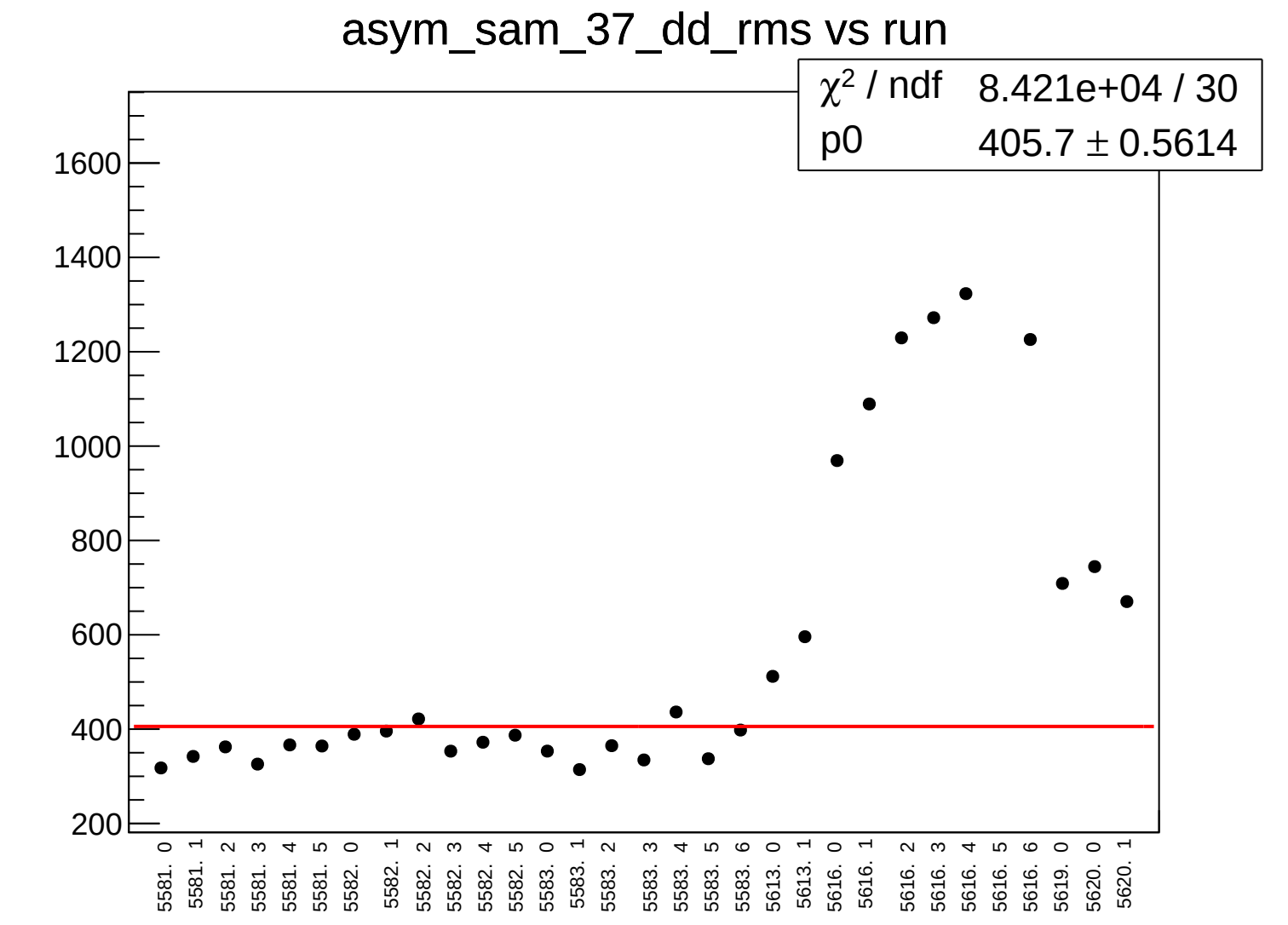

asym_sam_37_dd_correction_mean vs run
χ² / ndf 37.57 / 30
p0 −1135 ± 769.3
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 286.5
Std Dev 258.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

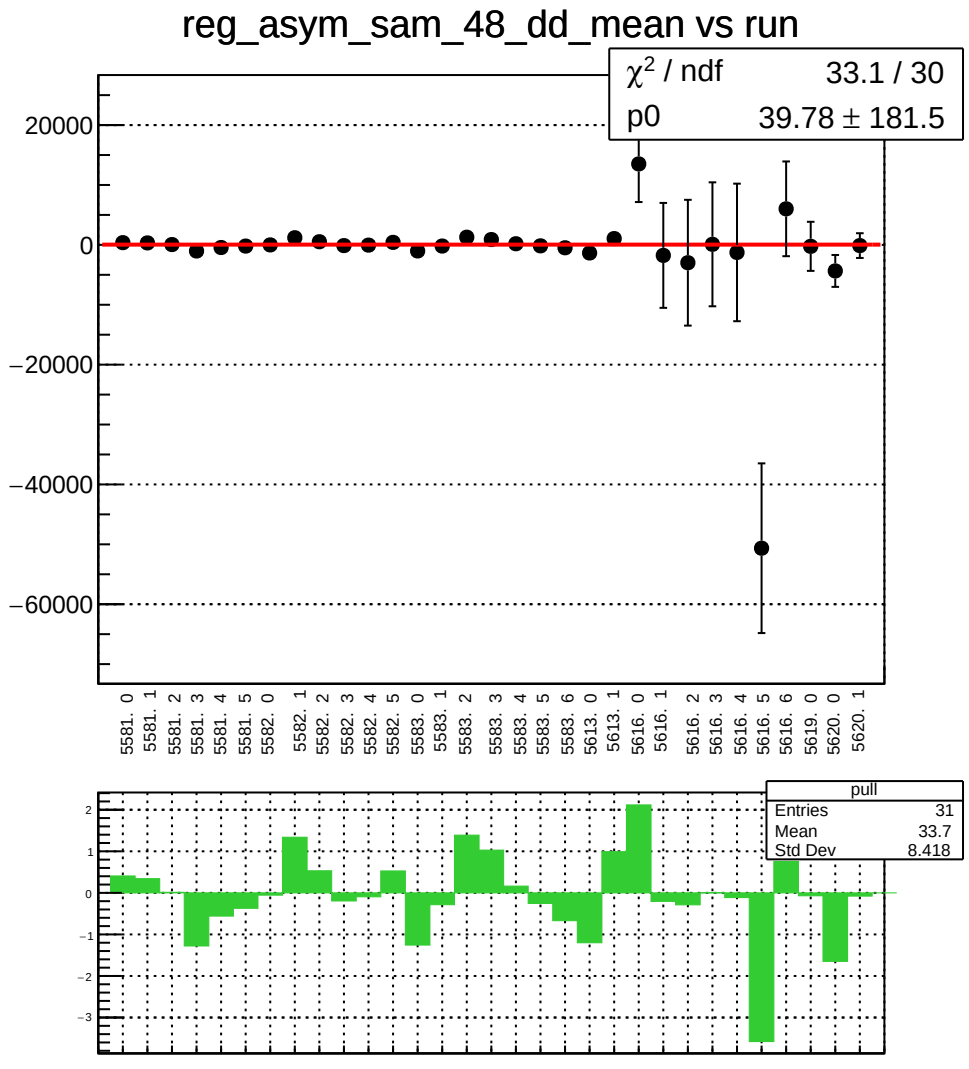

pull1D
Entries 31
Mean −0.00326
Std Dev 1.101
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

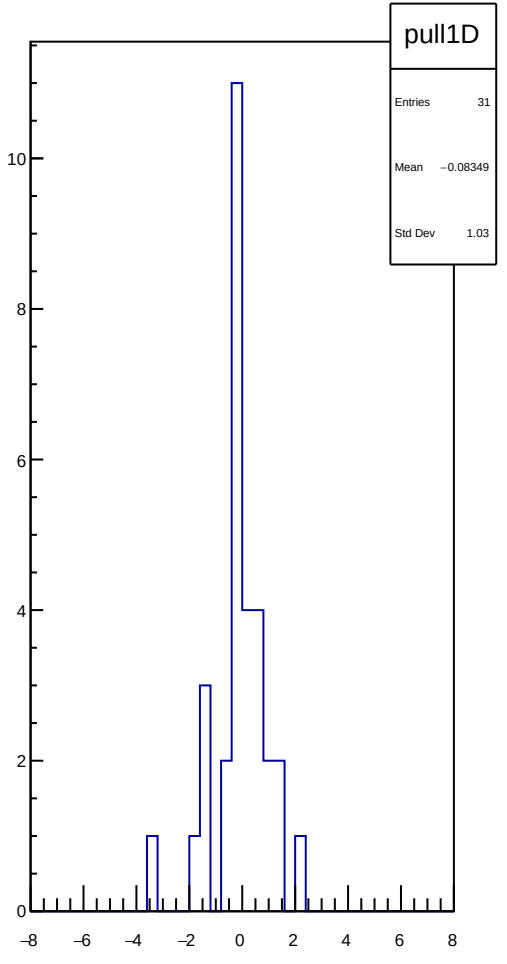

asym_sam_37_dd_correction_rms vs run
χ² / ndf 6.952e+04 / 30
p0 398.7 ± 0.544
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

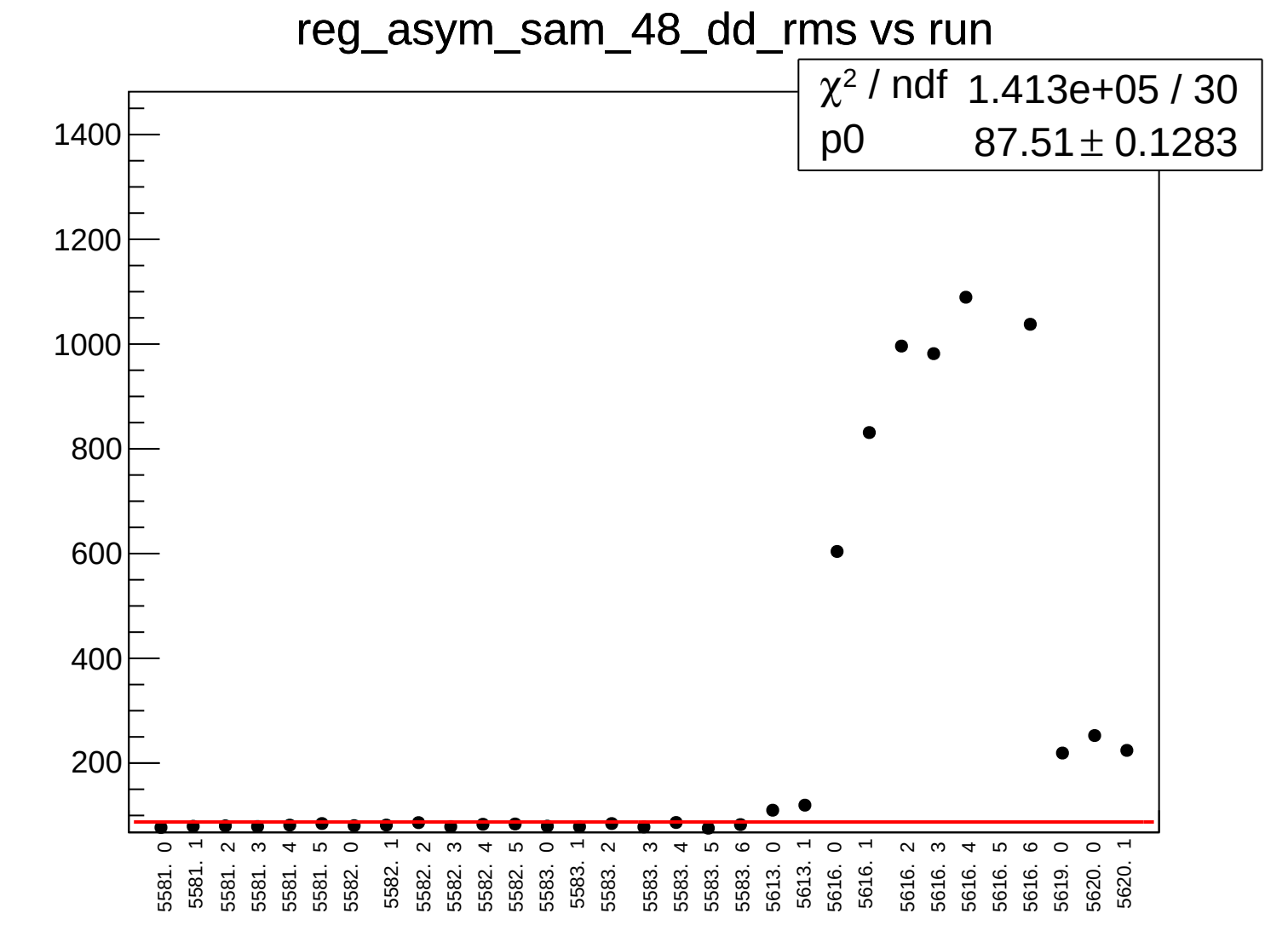

asym_sam_37_dd_mean vs run
χ² / ndf 42.96 / 30
p0 1020 ± 793.9
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1.327
Std Dev 23.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

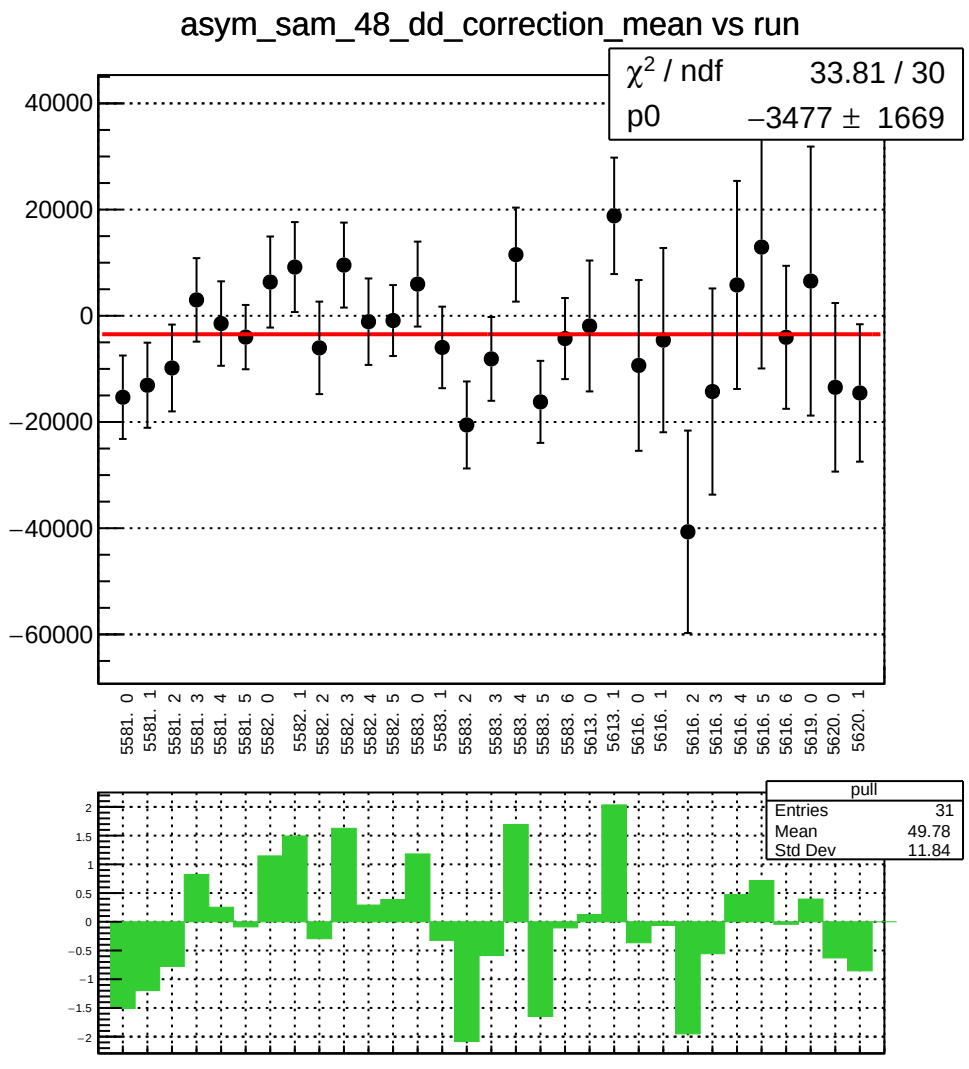

pull1D
Entries 31
Mean −0.03463
Std Dev 1.177
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

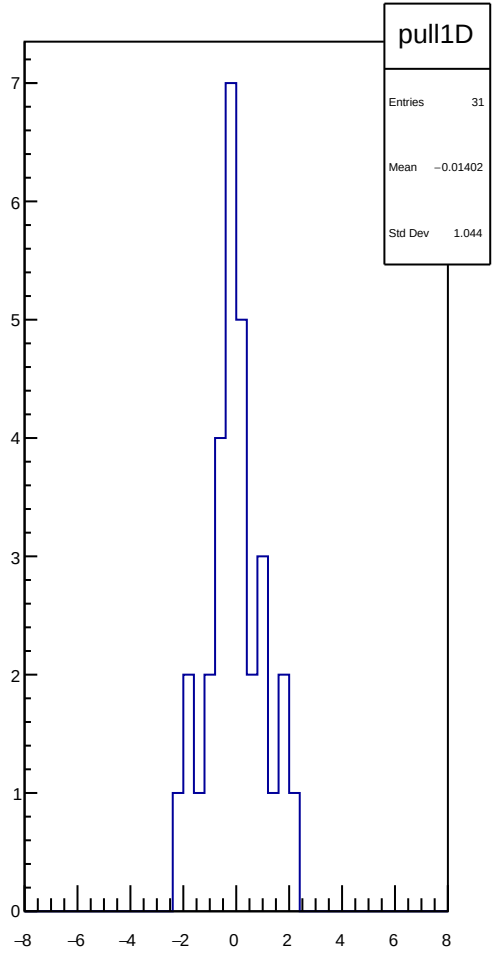

asym_sam_37_dd_rms vs run
χ² / ndf 8.421e+04 / 30
p0 405.7 ± 0.5614
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

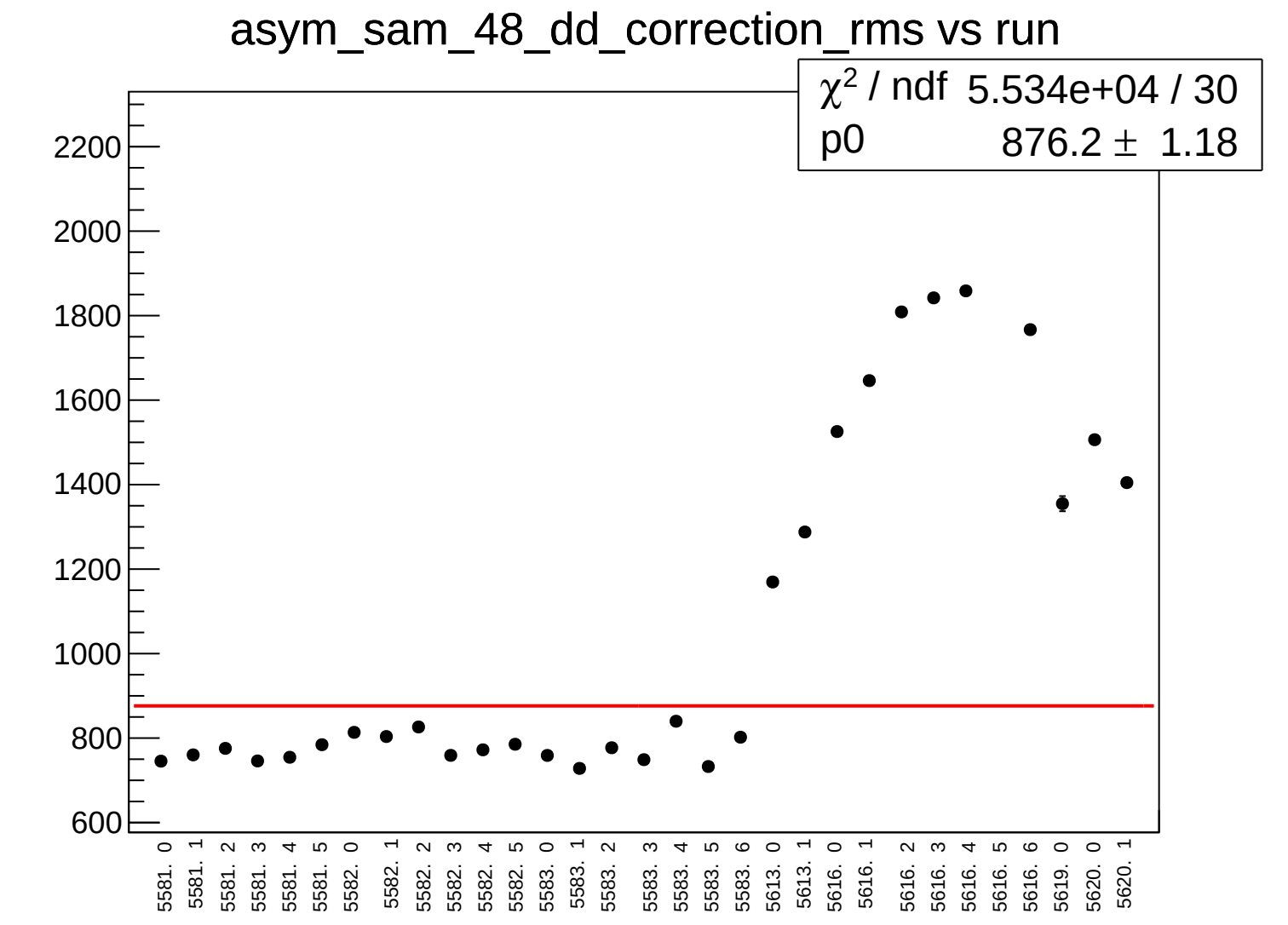

reg_asym_sam_48_dd_mean vs run
χ² / ndf 33.1 / 30
p0 39.78 ± 181.5
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.7
Std Dev 8.418
2
1
0
−1
−2
−3

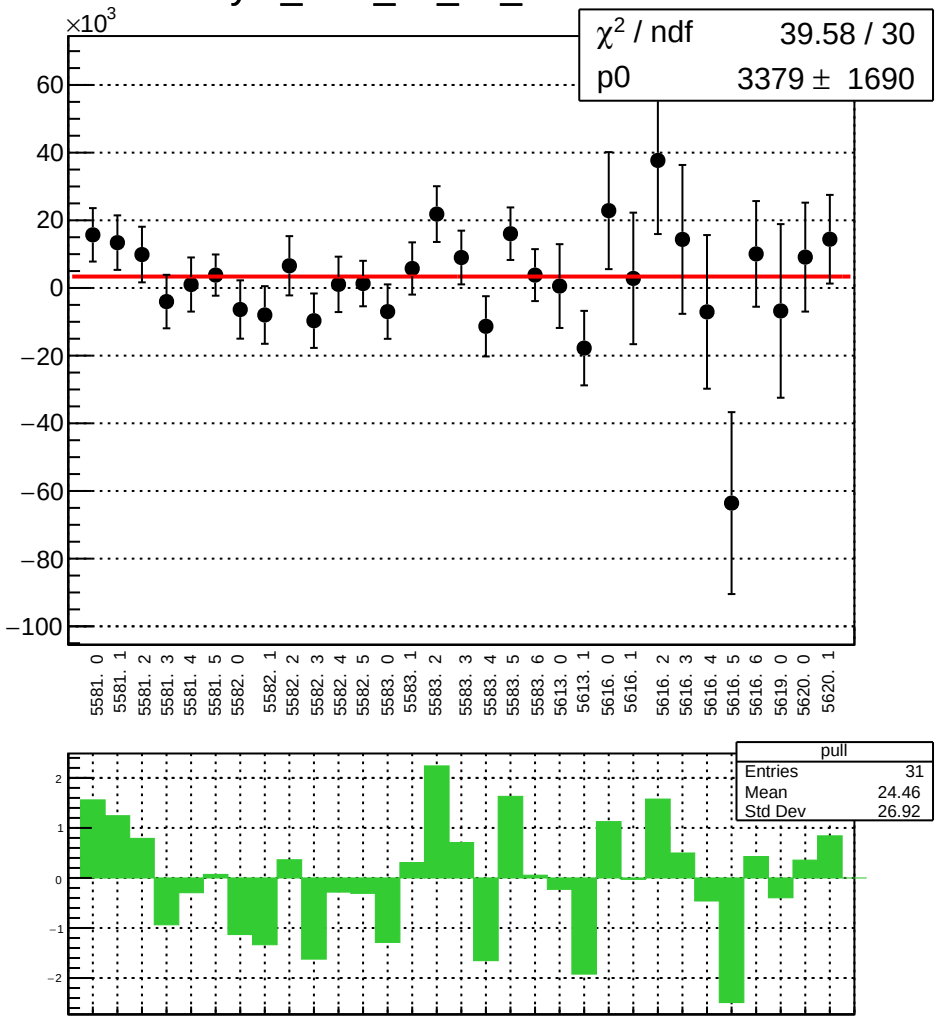

pull1D
Entries 31
Mean −0.08349
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

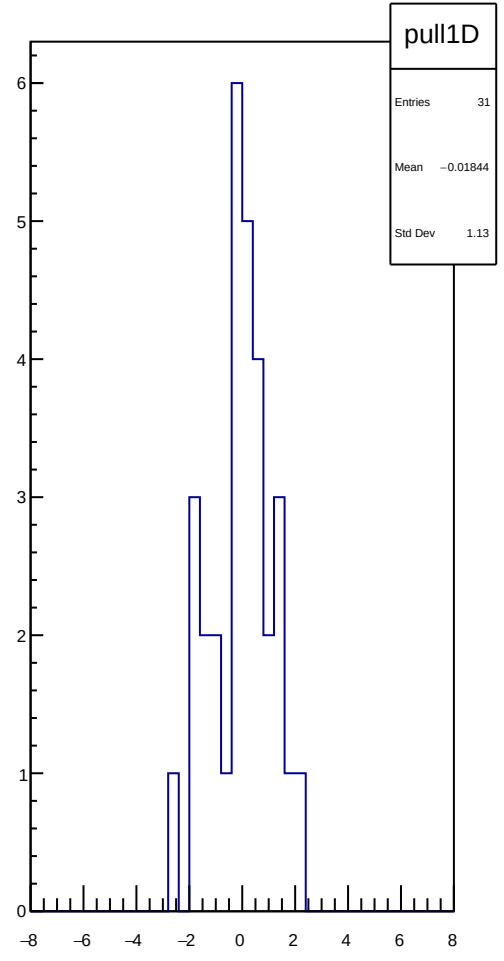

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.413e+05 / 30
p0 87.51 ± 0.1283
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

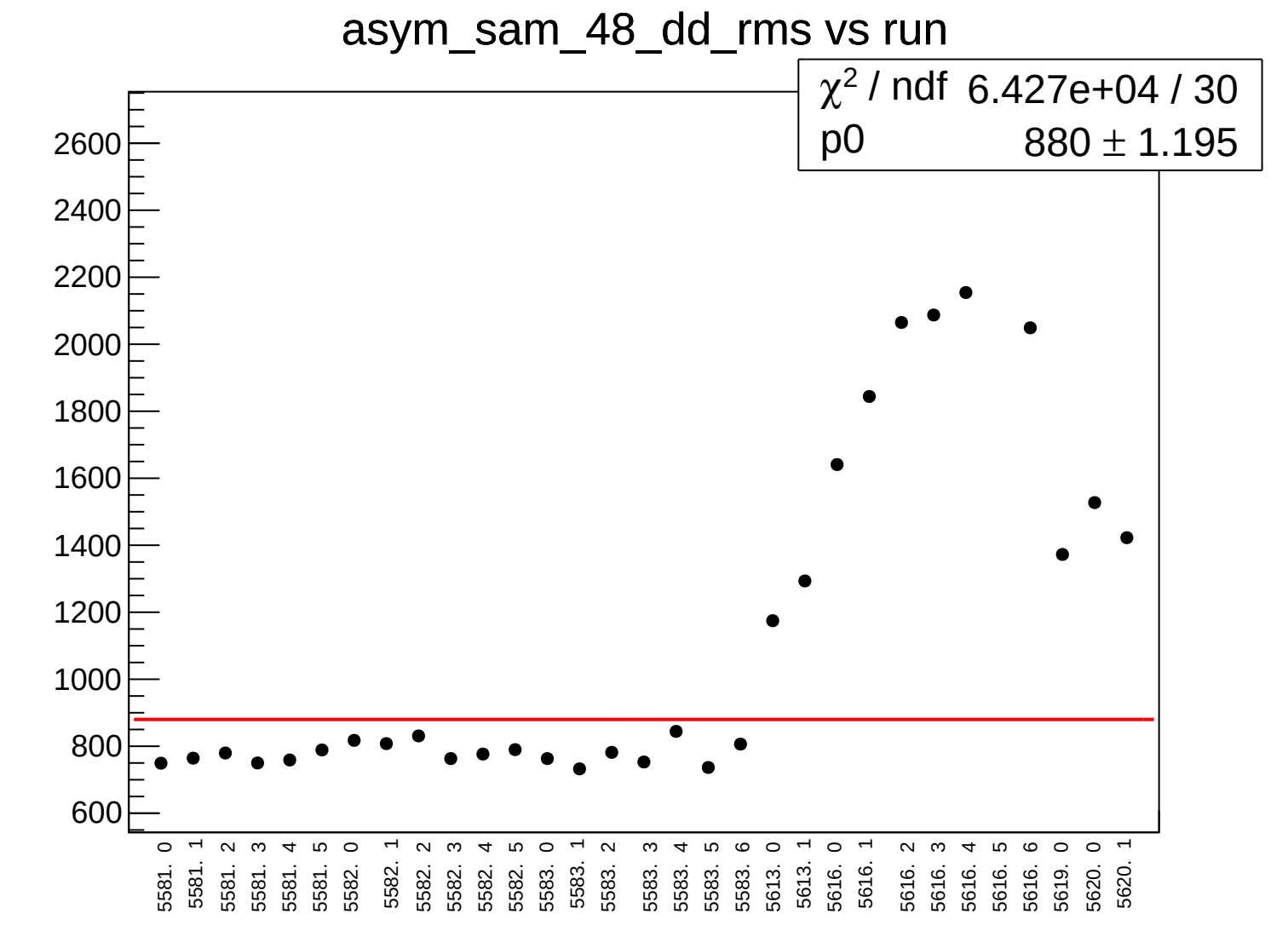

asym_sam_48_dd_correction_mean vs run
χ² / ndf 33.81 / 30
p0 −3477 ± 1669
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 49.78
Std Dev 11.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

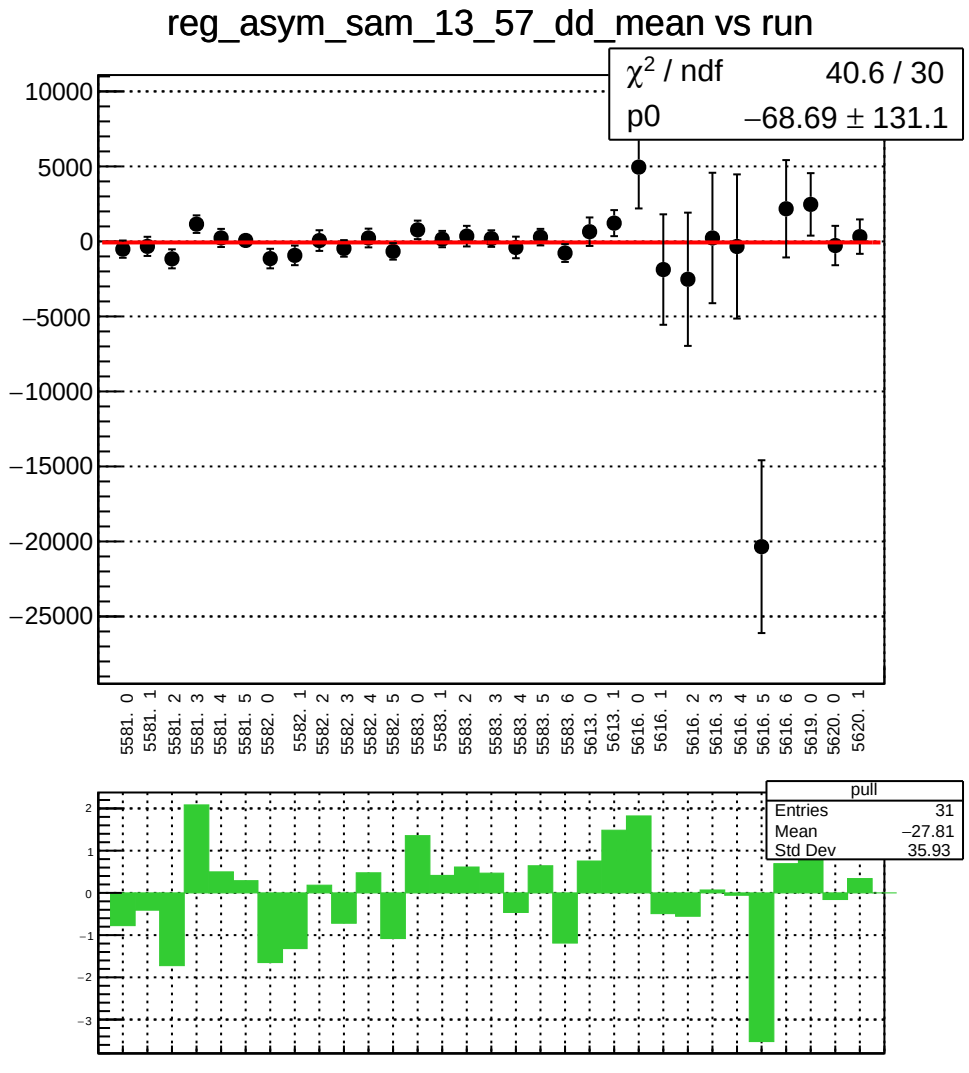

pull1D
Entries 31
Mean −0.01402
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

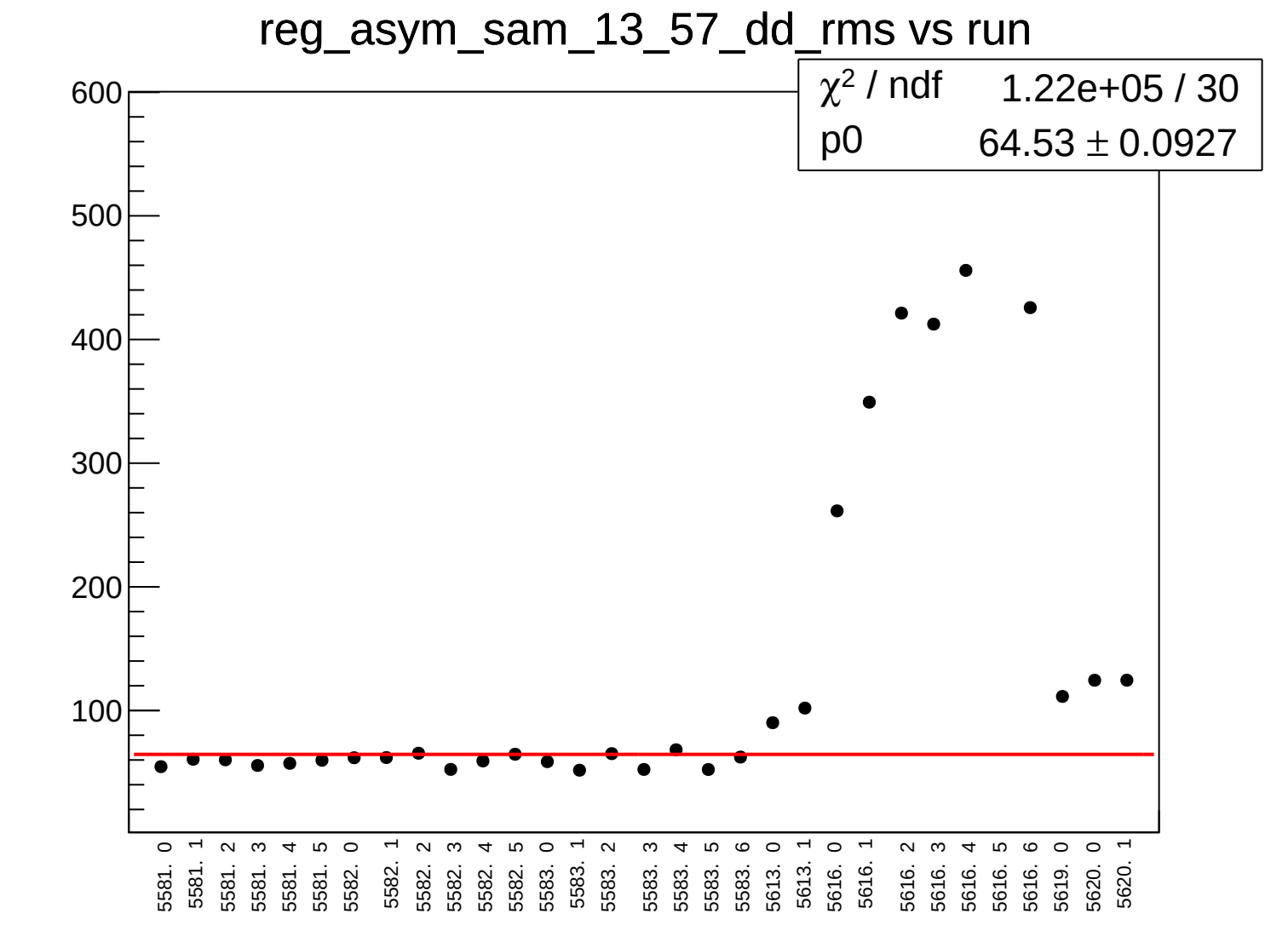

asym_sam_48_dd_correction_rms vs run
χ² / ndf 5.534e+04 / 30
p0 876.2 ± 1.18
2200
2000
1800
1600
1400
1200
1000
800
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

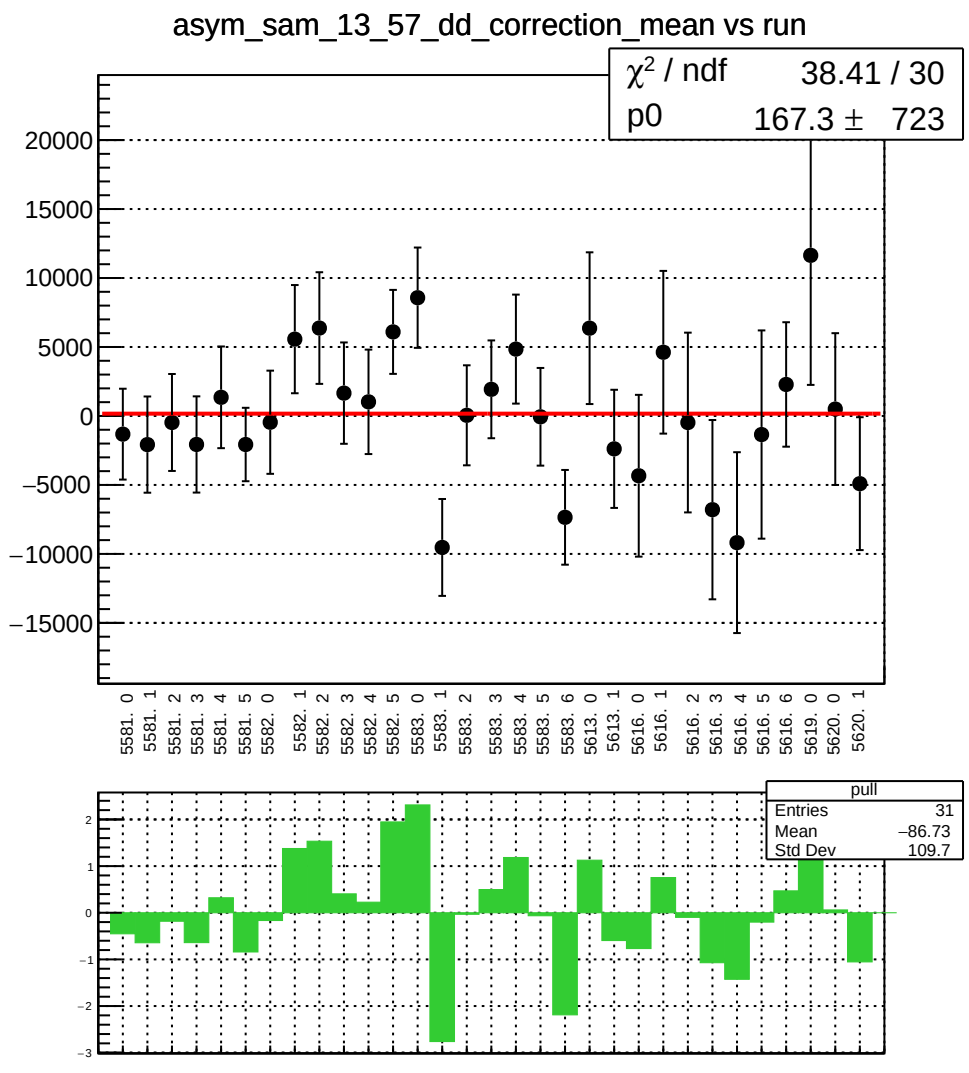

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 39.58 / 30
p0 3379 ± 1690
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.46
Std Dev 26.92
2
1
0
−1
−2

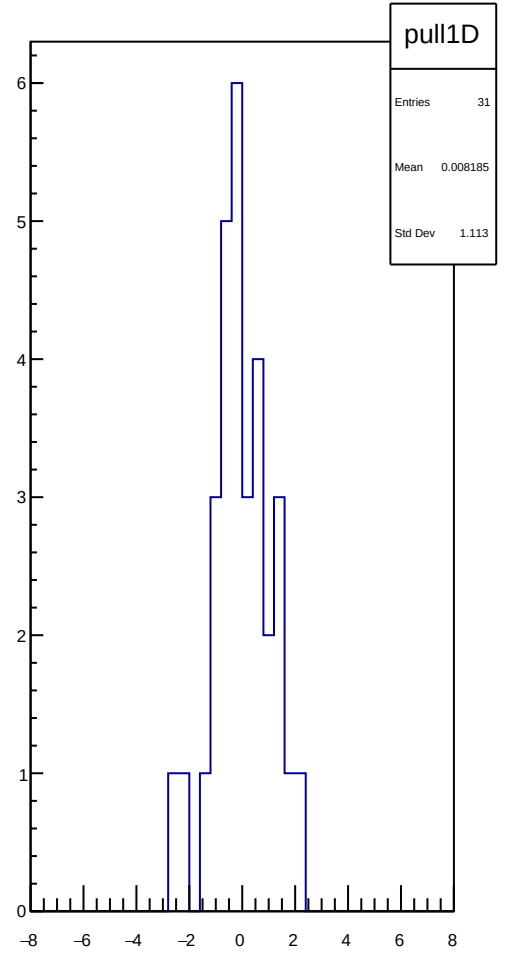

pull1D
Entries 31
Mean −0.01844
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

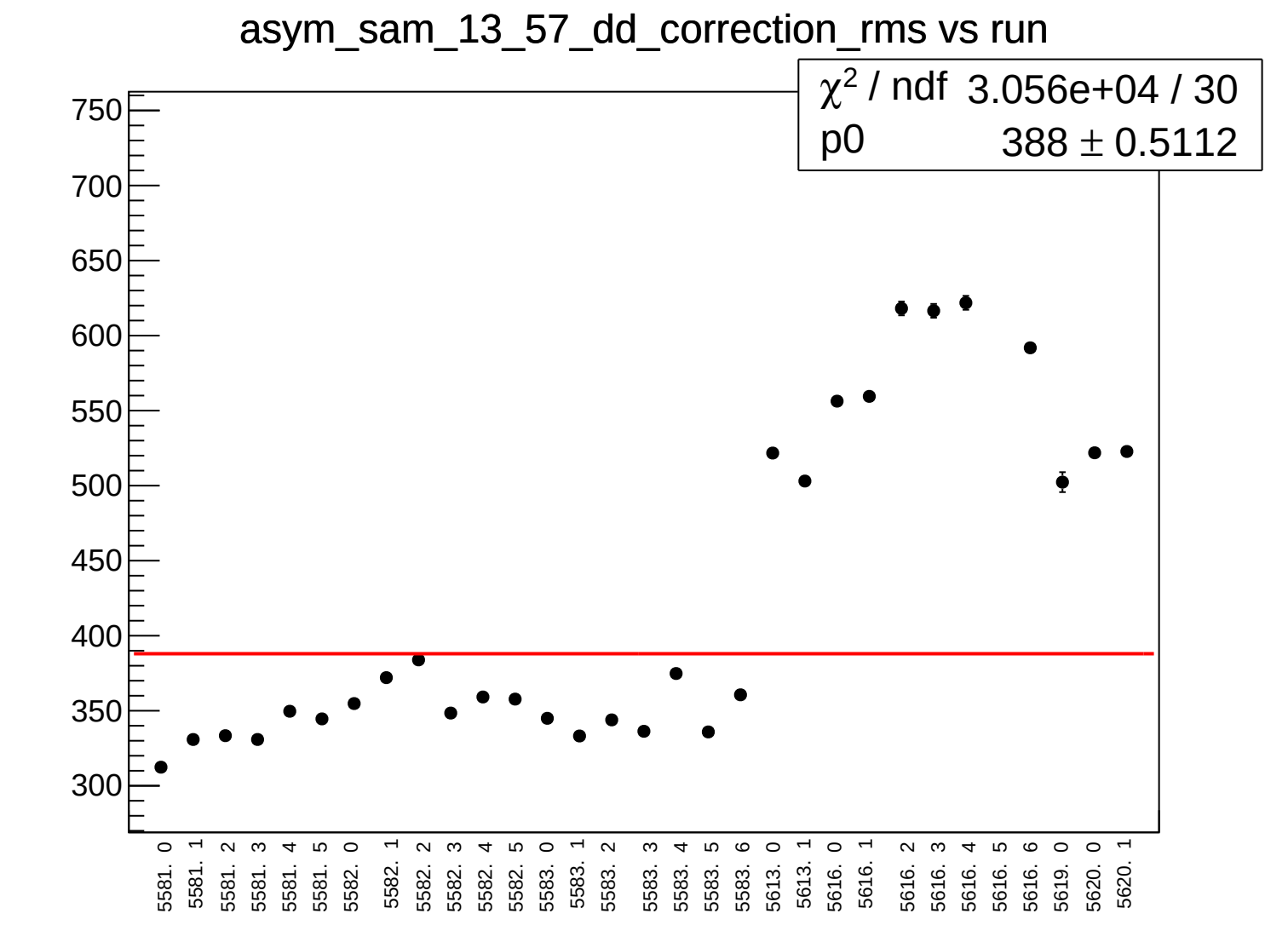

asym_sam_48_dd_rms vs run
χ² / ndf 6.427e+04 / 30
p0 880 ± 1.195
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

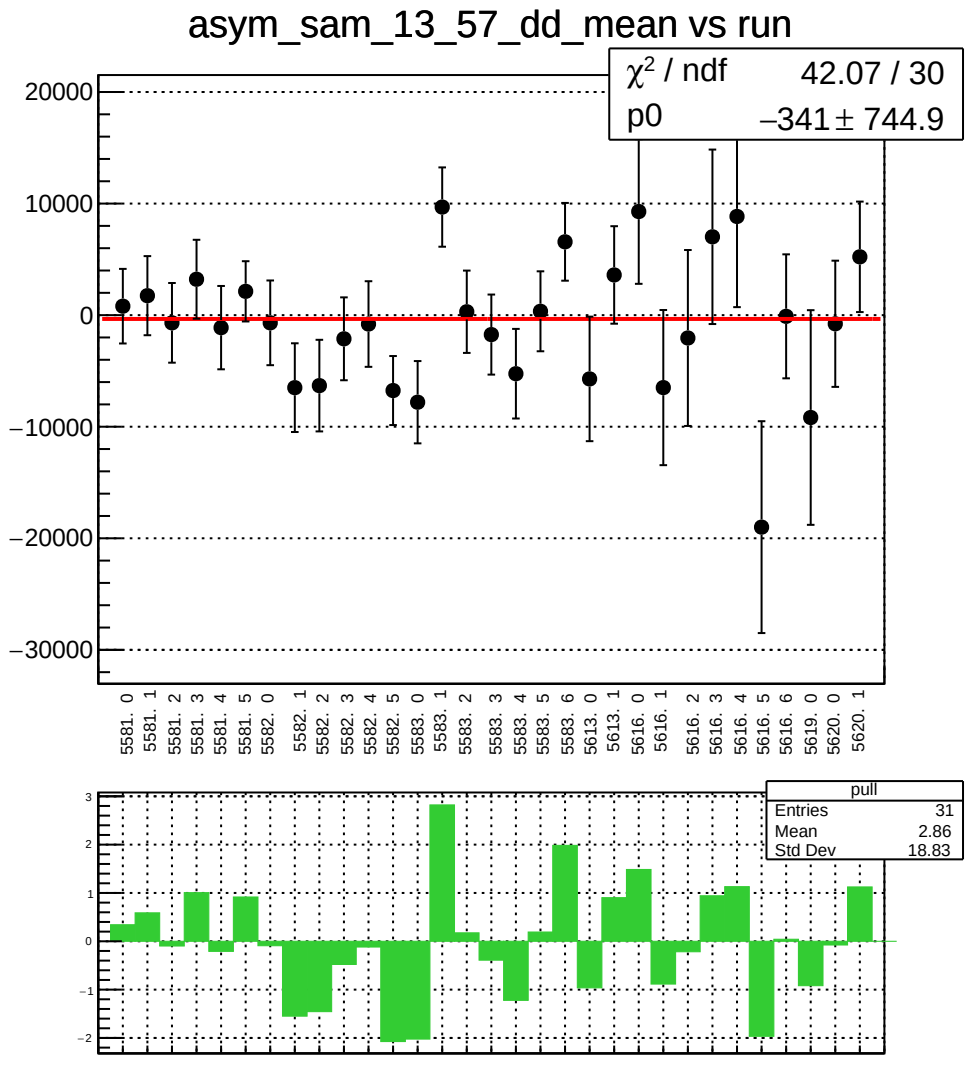

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 40.6 / 30
p0 −68.69 ± 131.1
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −27.81
Std Dev 35.93
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.02264
Std Dev 1.144
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

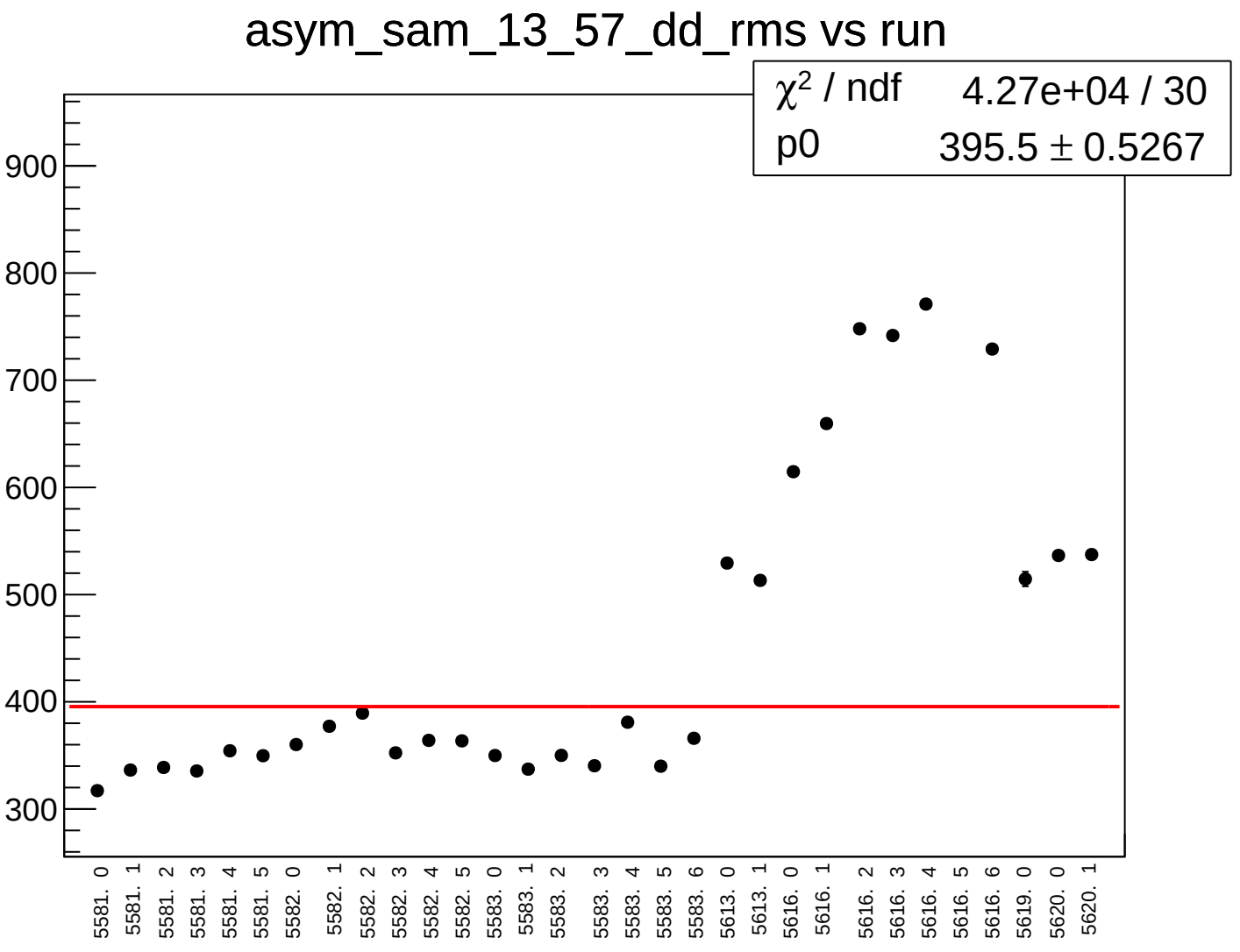

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.22e+05 / 30
p0 64.53 ± 0.0927
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

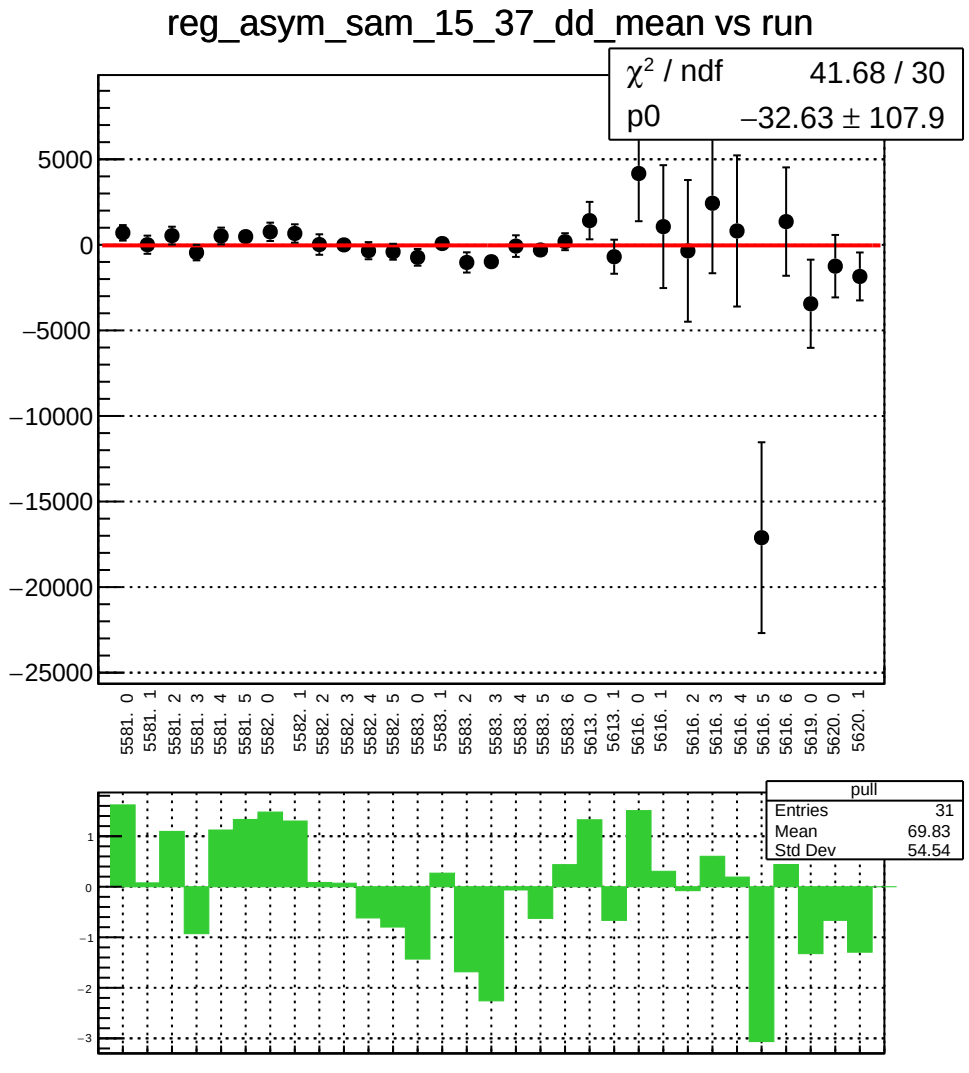

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 38.41 / 30
p0 167.3 ± 723
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −86.73
Std Dev 109.7
2
1
0
−1
−2
−3

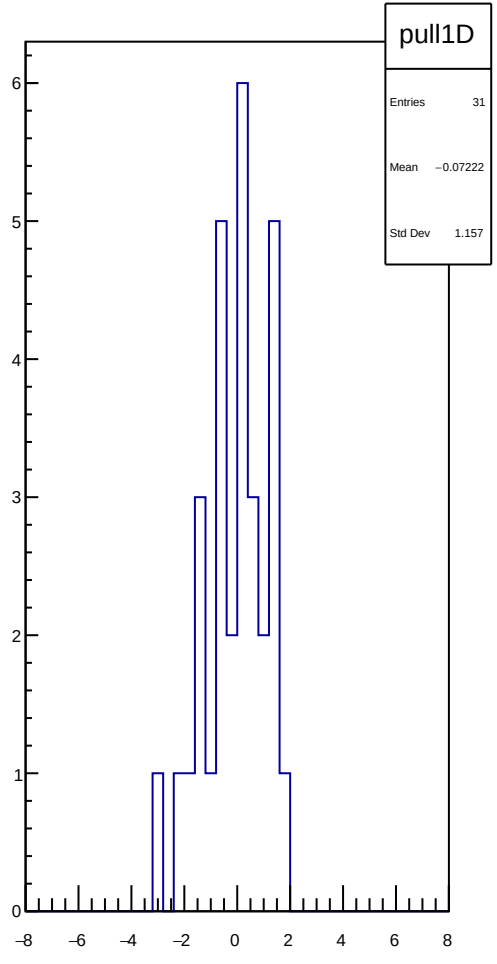

pull1D
Entries 31
Mean 0.008185
Std Dev 1.113
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

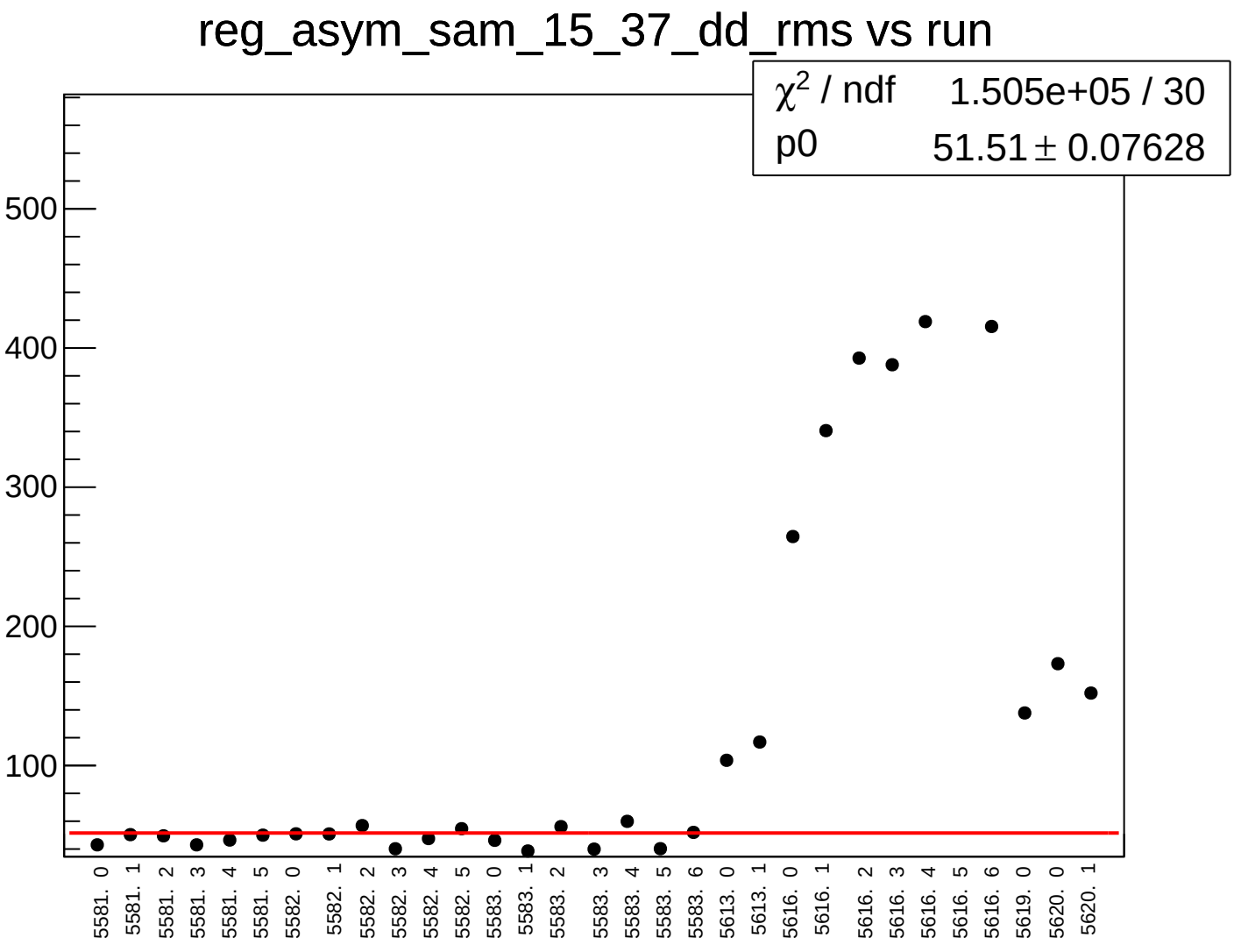

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 3.056e+04 / 30
p0 388 ± 0.5112
750
700
650
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

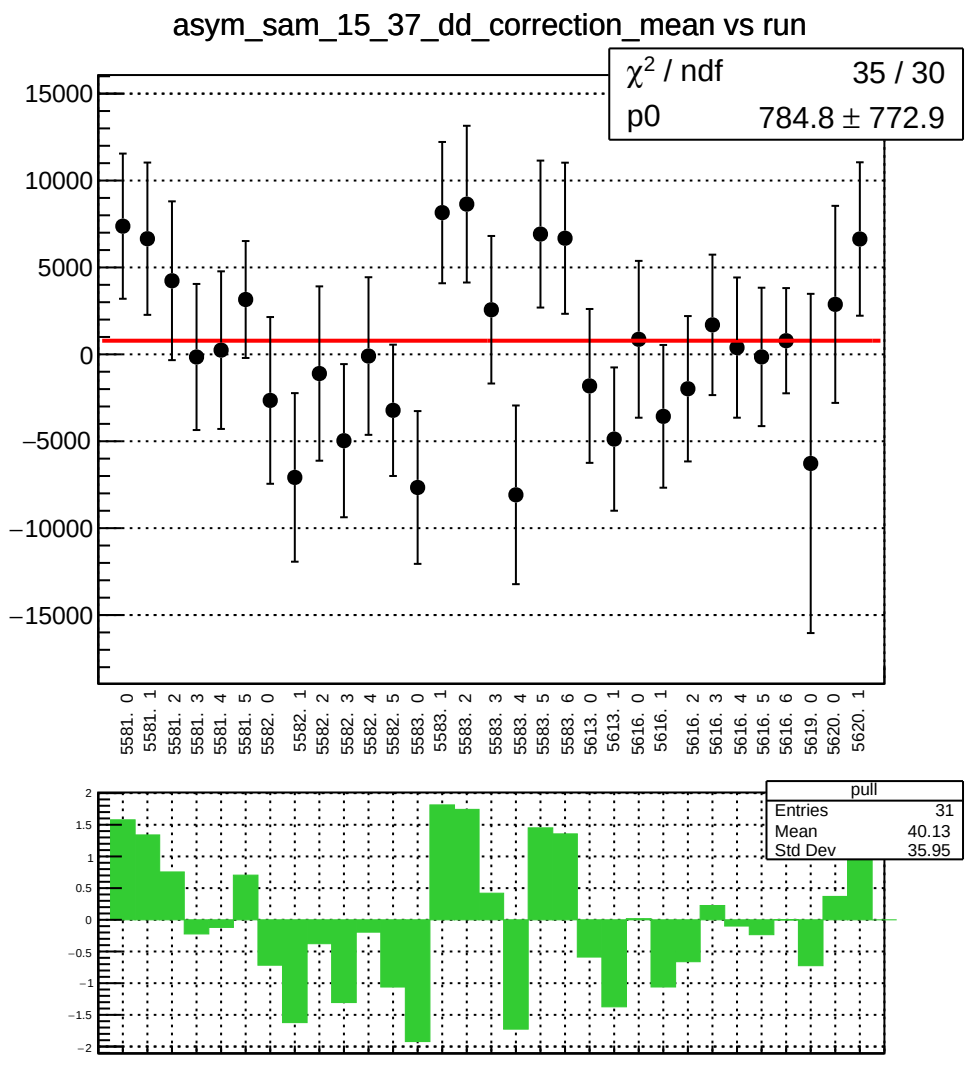

asym_sam_13_57_dd_mean vs run
χ² / ndf 42.07 / 30
p0 −341 ± 744.9
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 2.86
Std Dev 18.83
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.03486
Std Dev 1.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

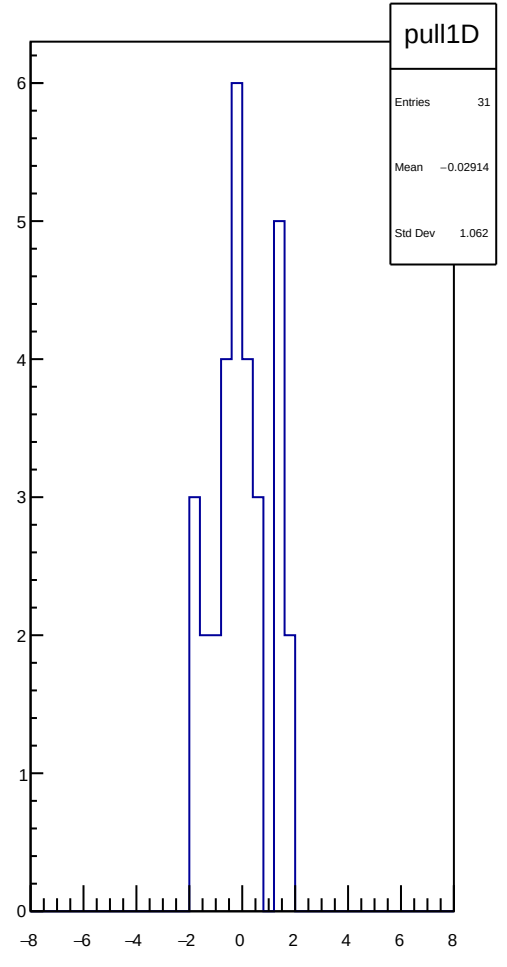

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 4.27e+04 / 30
p0 395.5 ± 0.5267
900
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

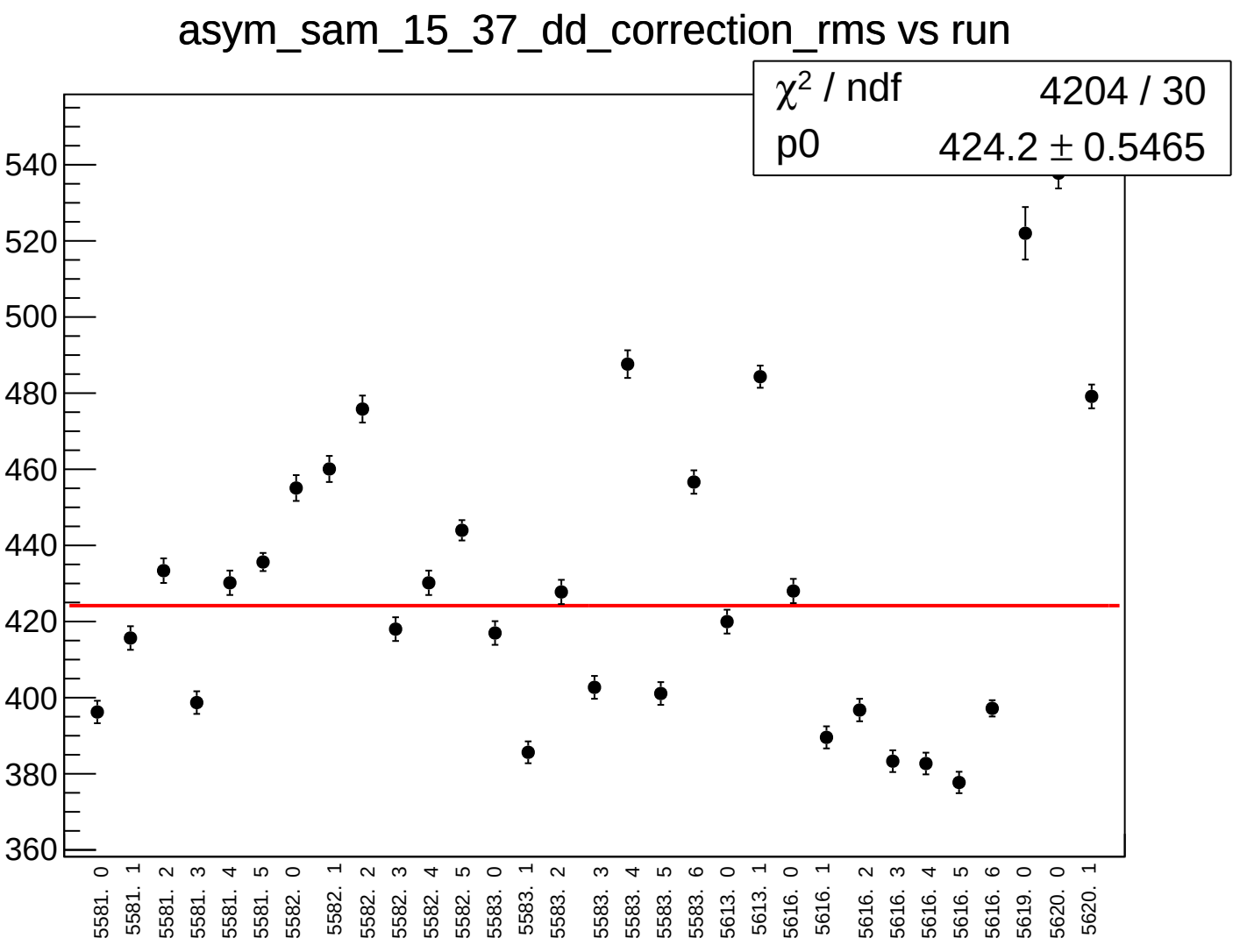

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 41.68 / 30
p0 −32.63 ± 107.9
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 69.83
Std Dev 54.54
1
0
−1
−2
−3

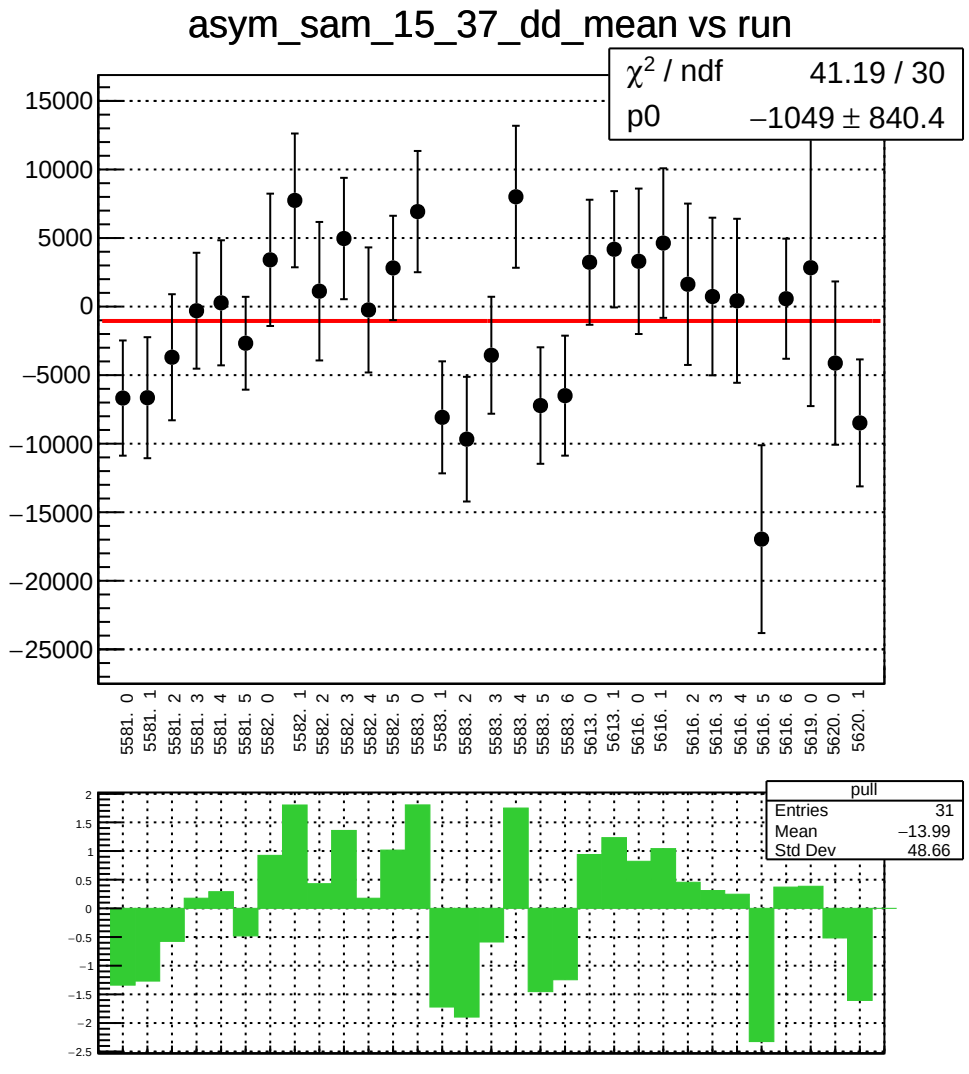

pull1D
Entries 31
Mean −0.07222
Std Dev 1.157
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

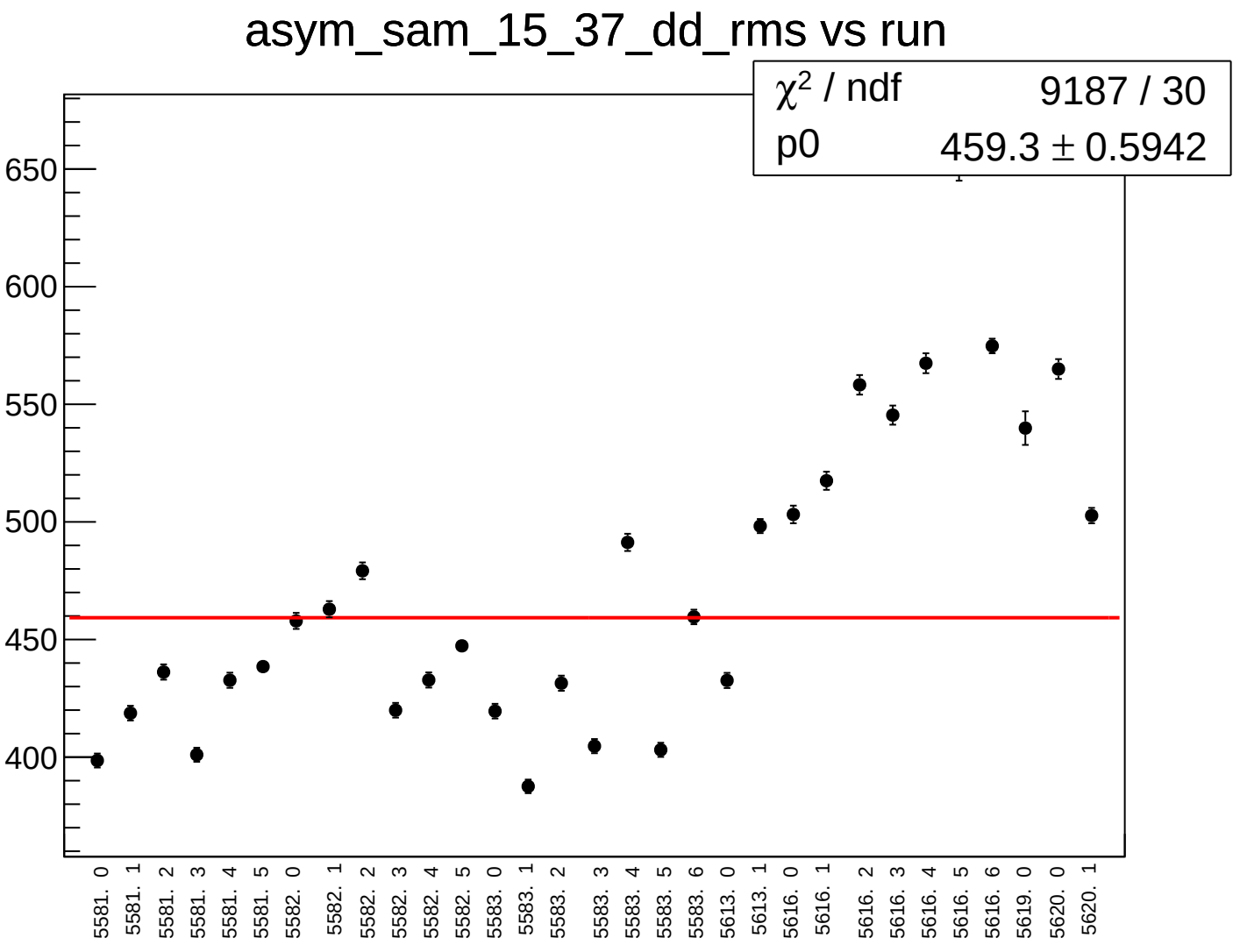

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.505e+05 / 30
p0 51.51 ± 0.07628
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

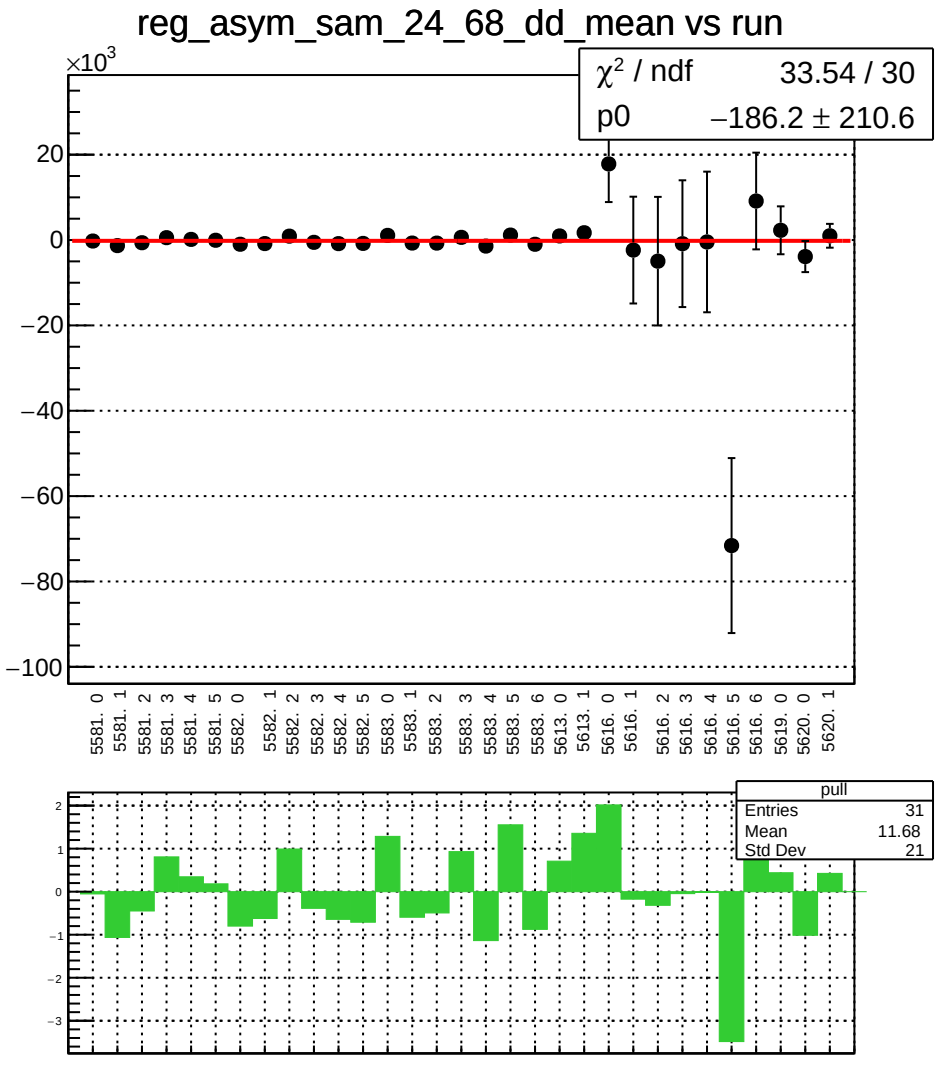

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 35 / 30
p0 784.8 ± 772.9
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.13
Std Dev 35.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

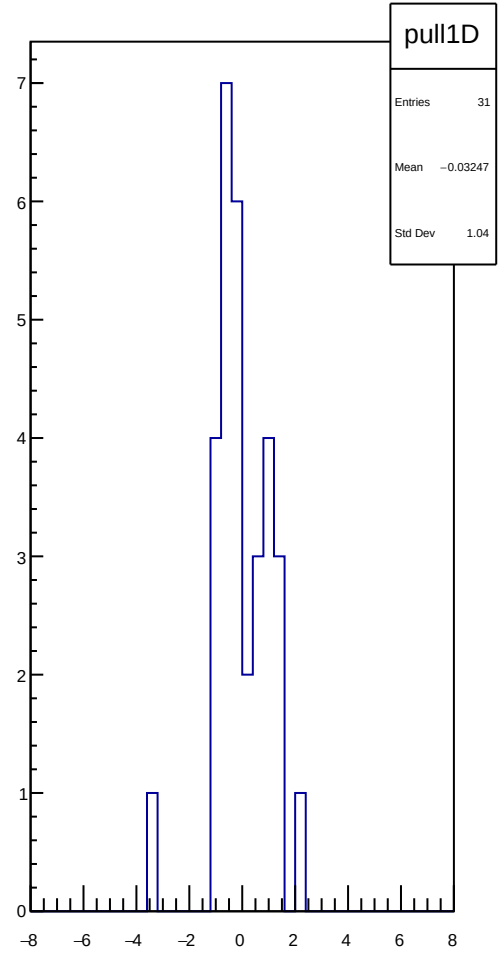

pull1D
Entries 31
Mean −0.02914
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

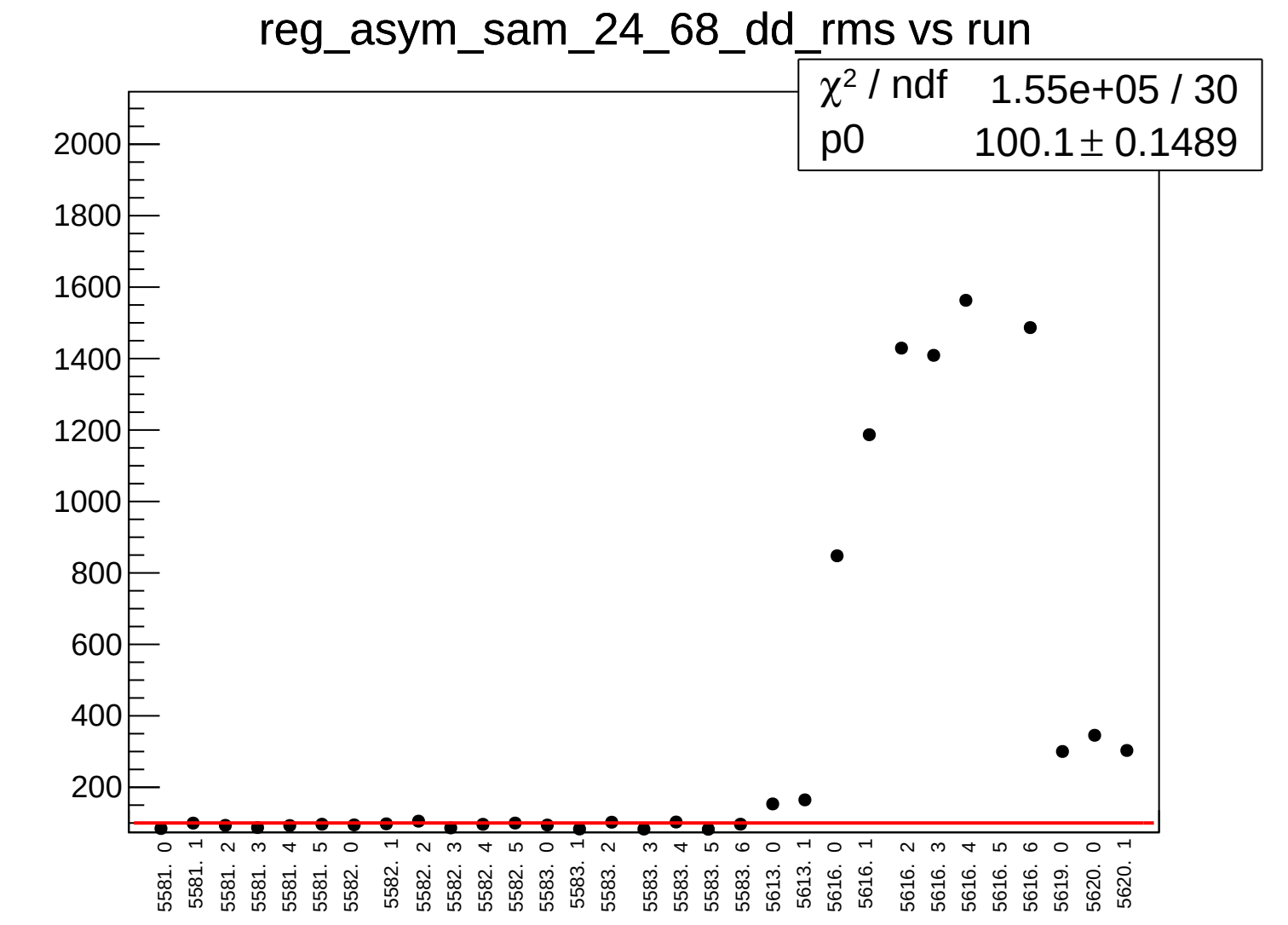

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 4204 / 30
p0 424.2 ± 0.5465
540
520
500
480
460
440
420
400
380
360
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1


asym_sam_15_37_dd_mean vs run
χ² / ndf 41.19 / 30
p0 −1049 ± 840.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −13.99
Std Dev 48.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.01683
Std Dev 1.153
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

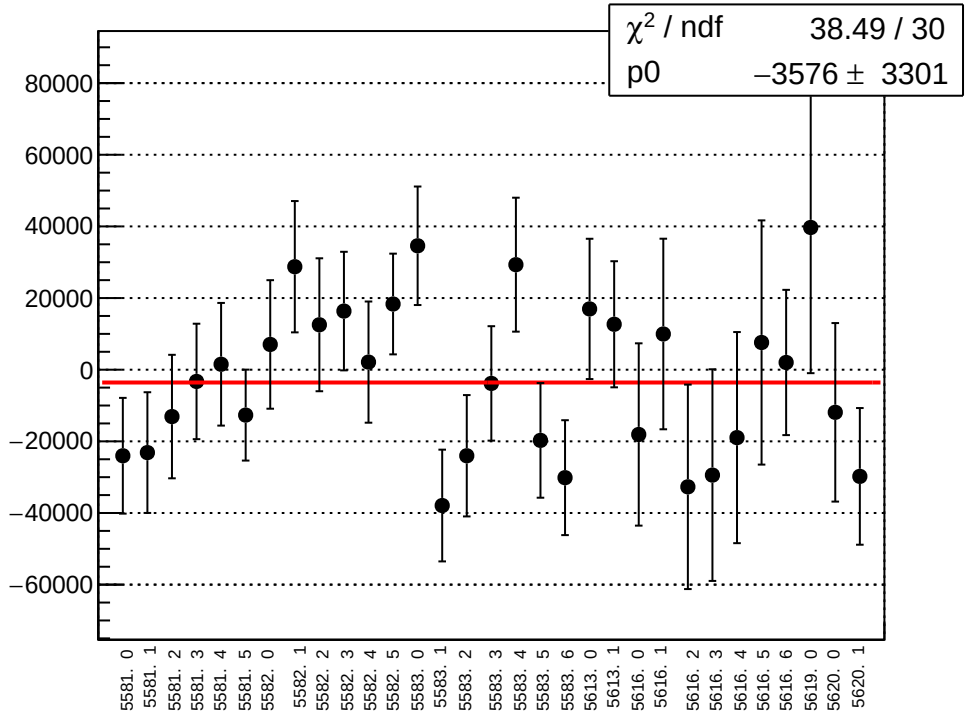

asym_sam_15_37_dd_rms vs run
χ² / ndf 9187 / 30
p0 459.3 ± 0.5942
650
600
550
500
450
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

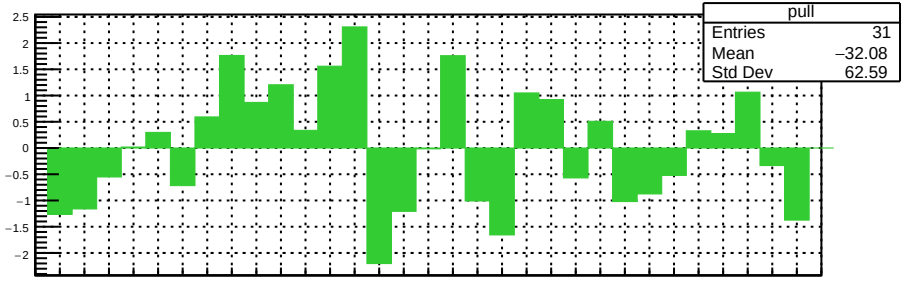

reg_asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 33.54 / 30
p0 −186.2 ± 210.6
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 11.68
Std Dev 21
2
1
0
−1
−2
−3

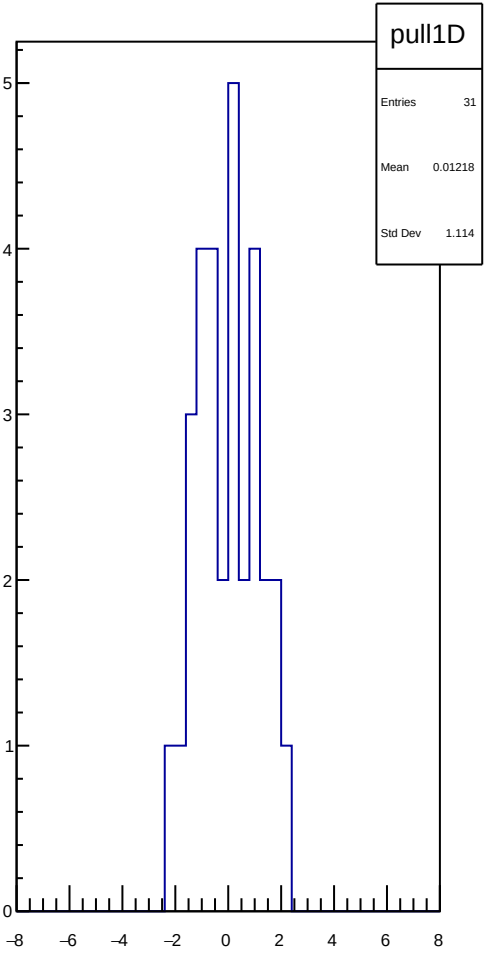

pull1D
Entries 31
Mean −0.03247
Std Dev 1.04
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

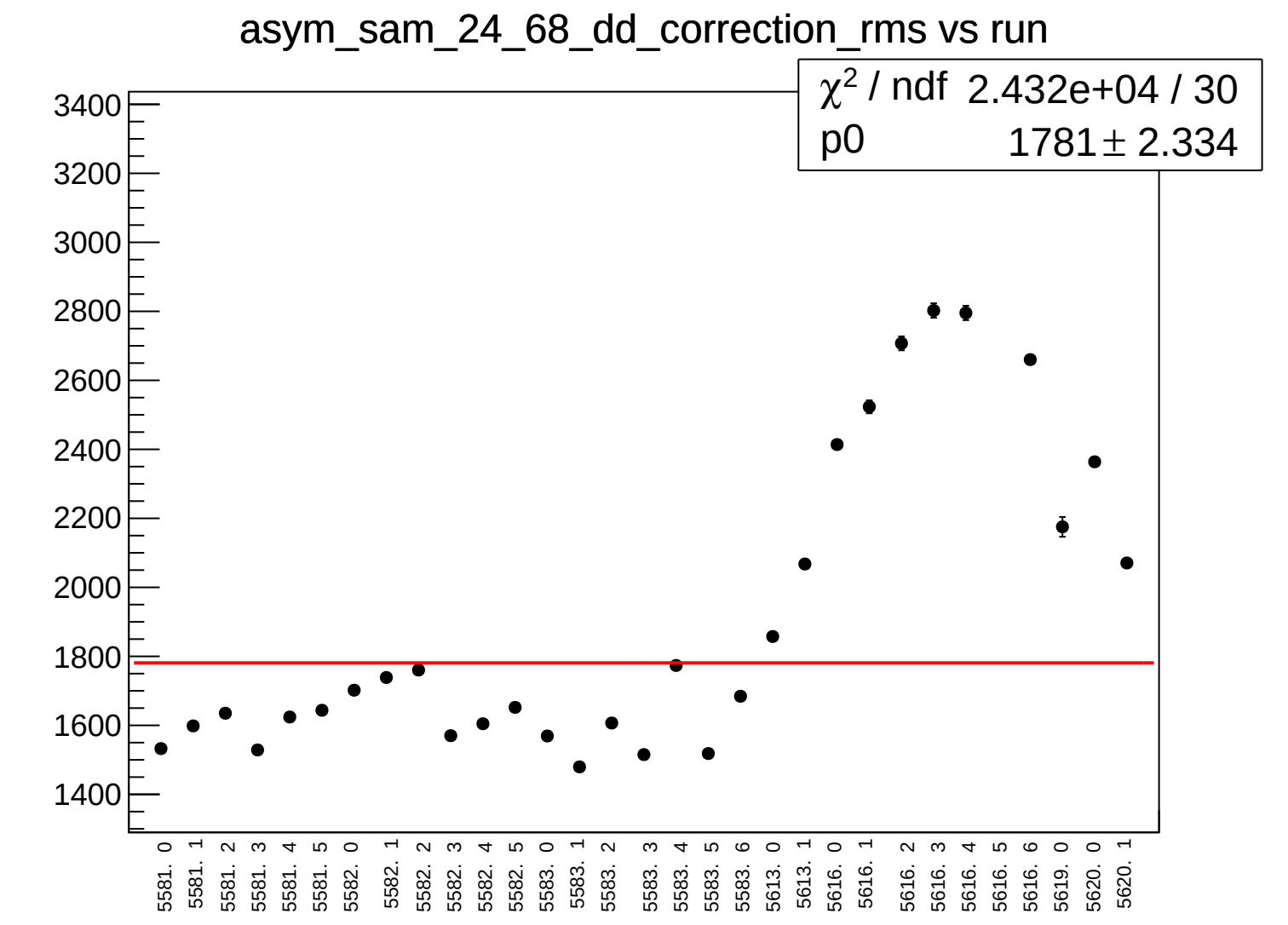

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.55e+05 / 30
p0 100.1 ± 0.1489
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

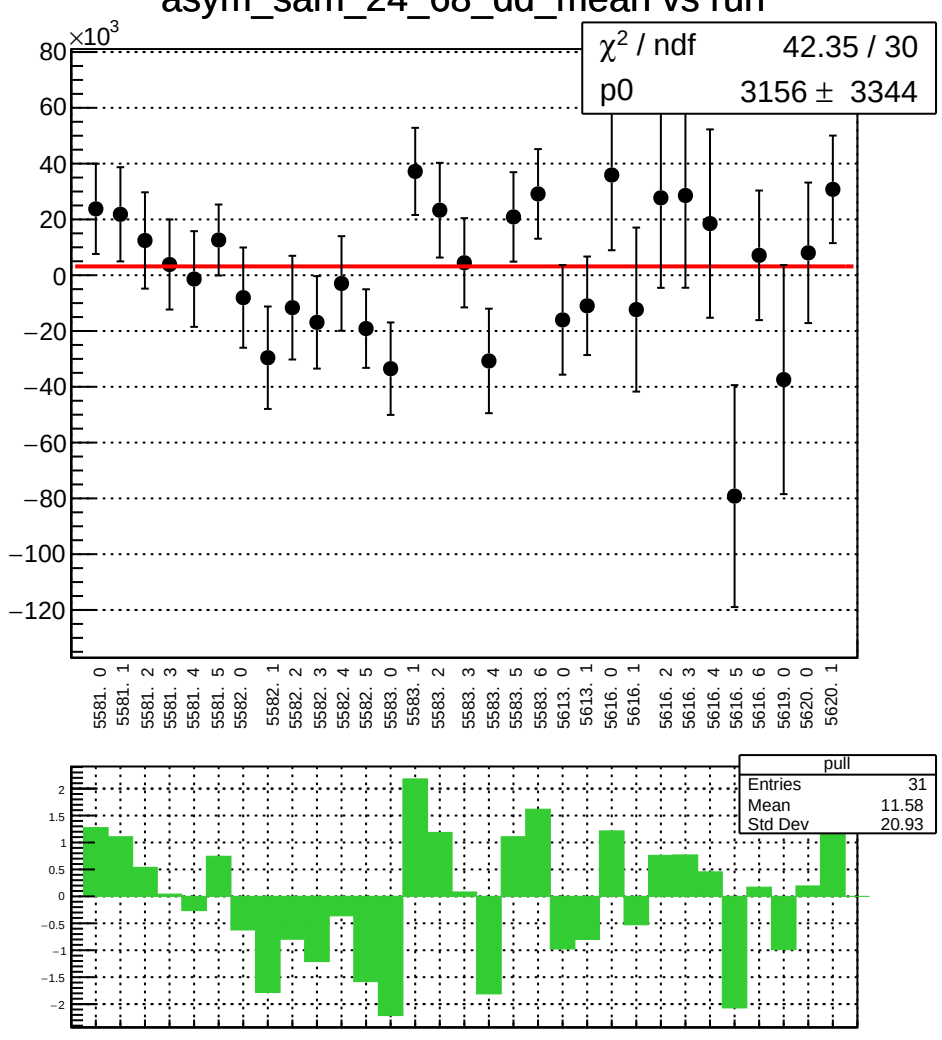
asym_sam_24_68_dd_correction_mean vs run

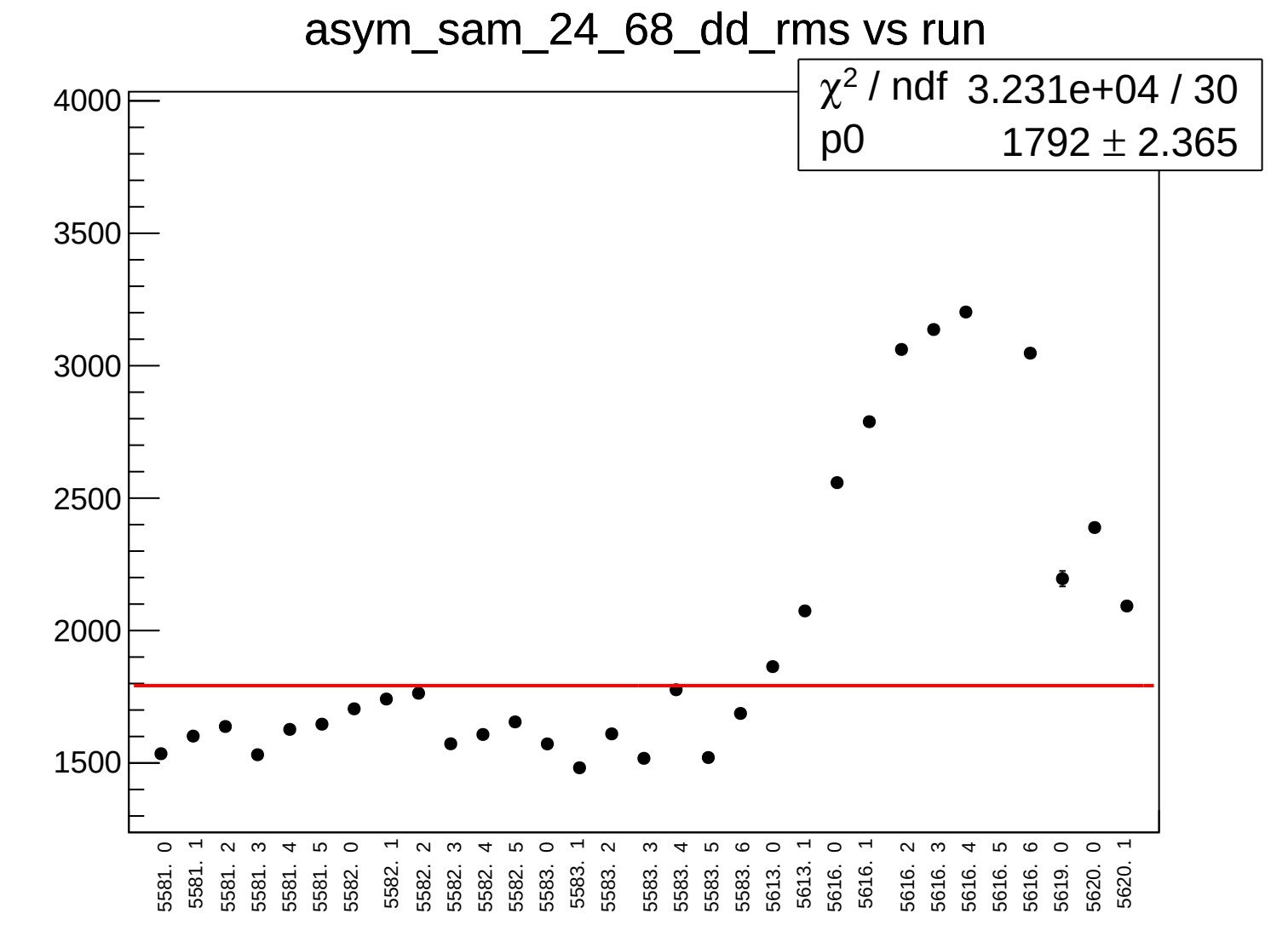


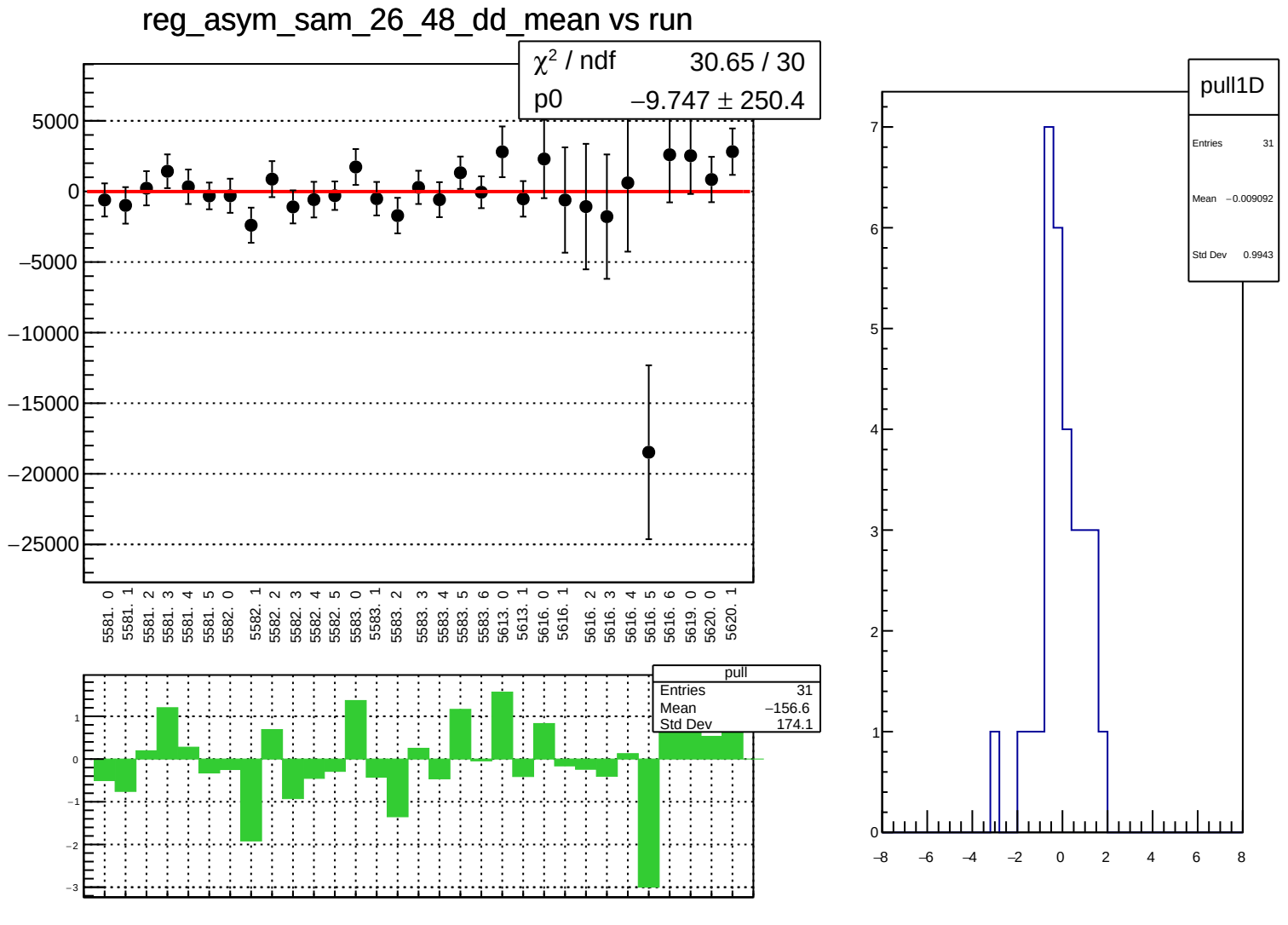


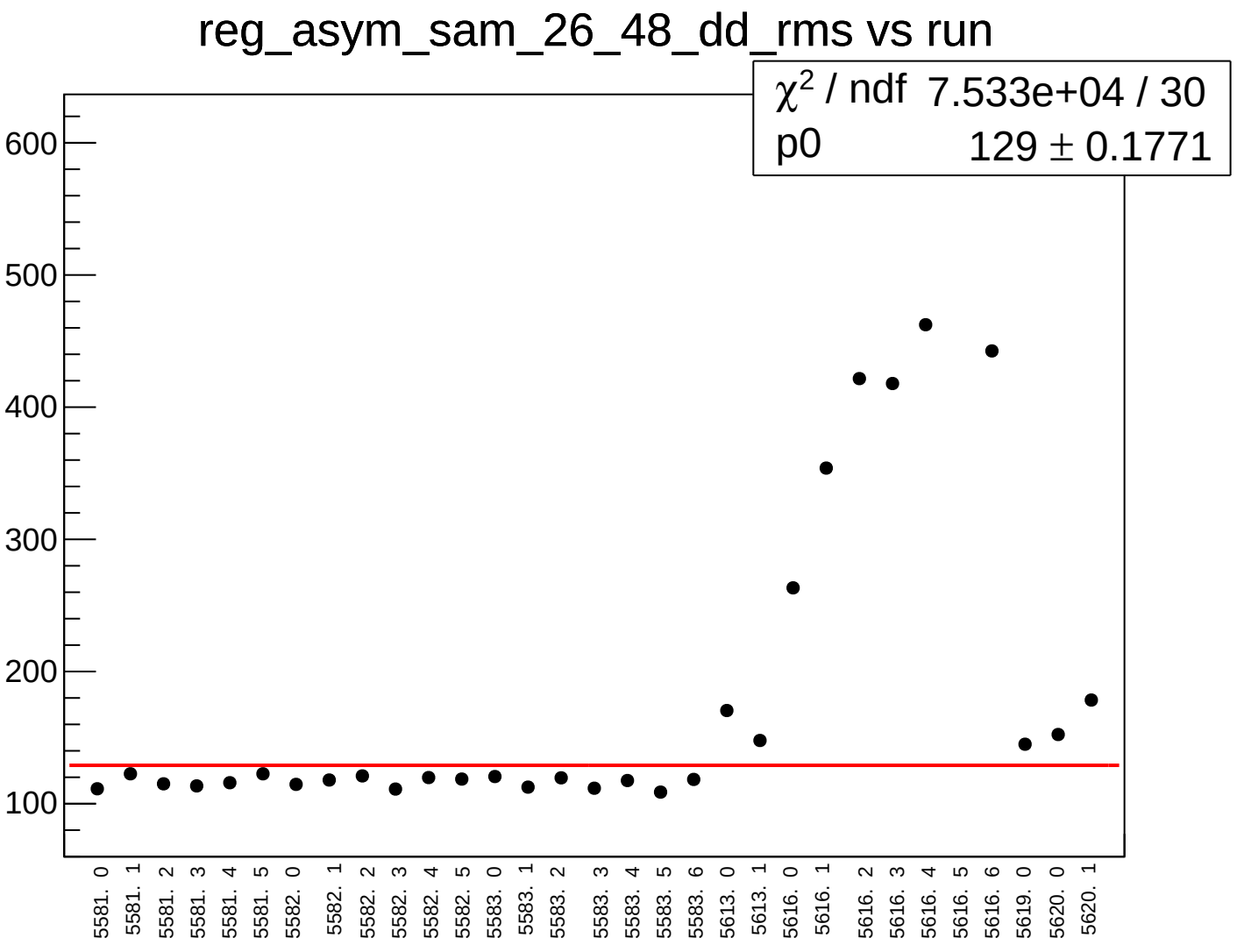


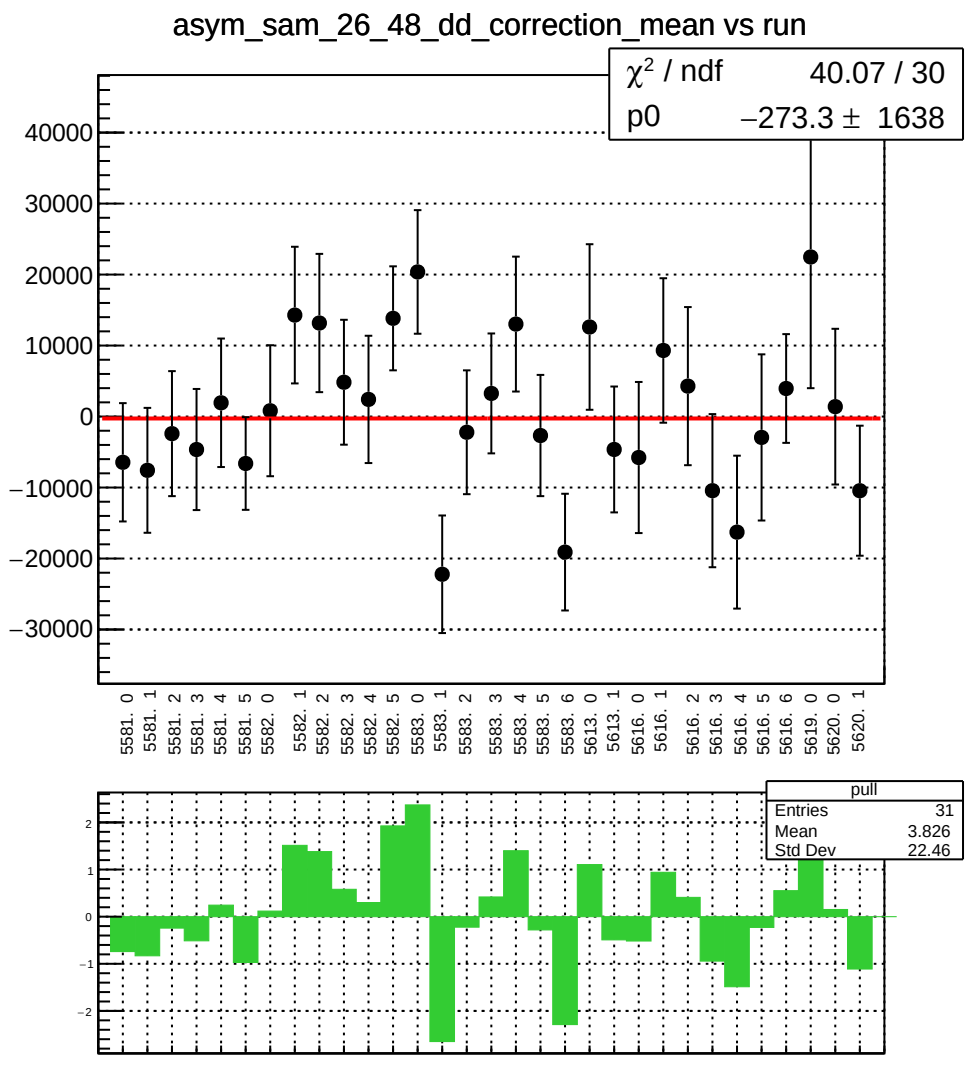

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2.432e+04 / 30
p0 1781 ± 2.334
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

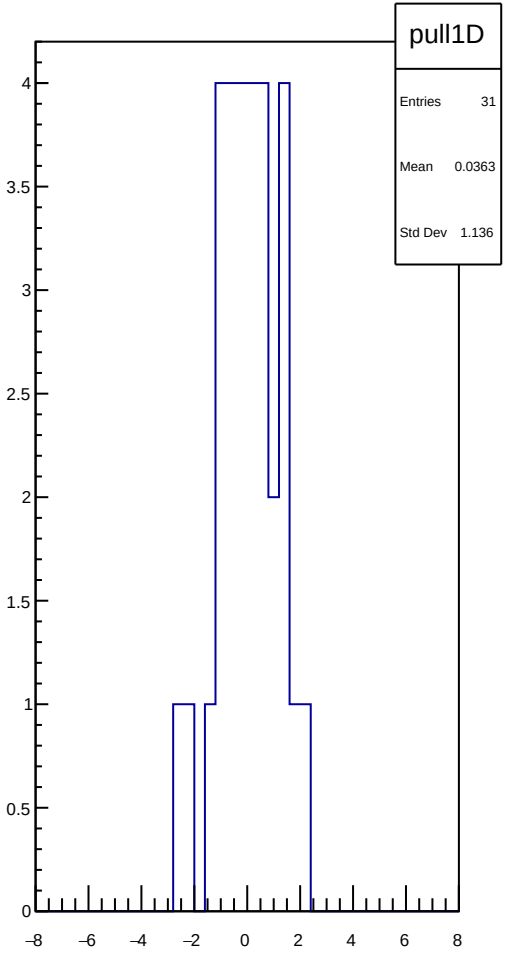

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 42.35 / 30
p0 3156 ± 3344
pull
Entries 31
Mean 11.58
Std Dev 20.93
pull1D
Entries 31
Mean −0.03627
Std Dev 1.168

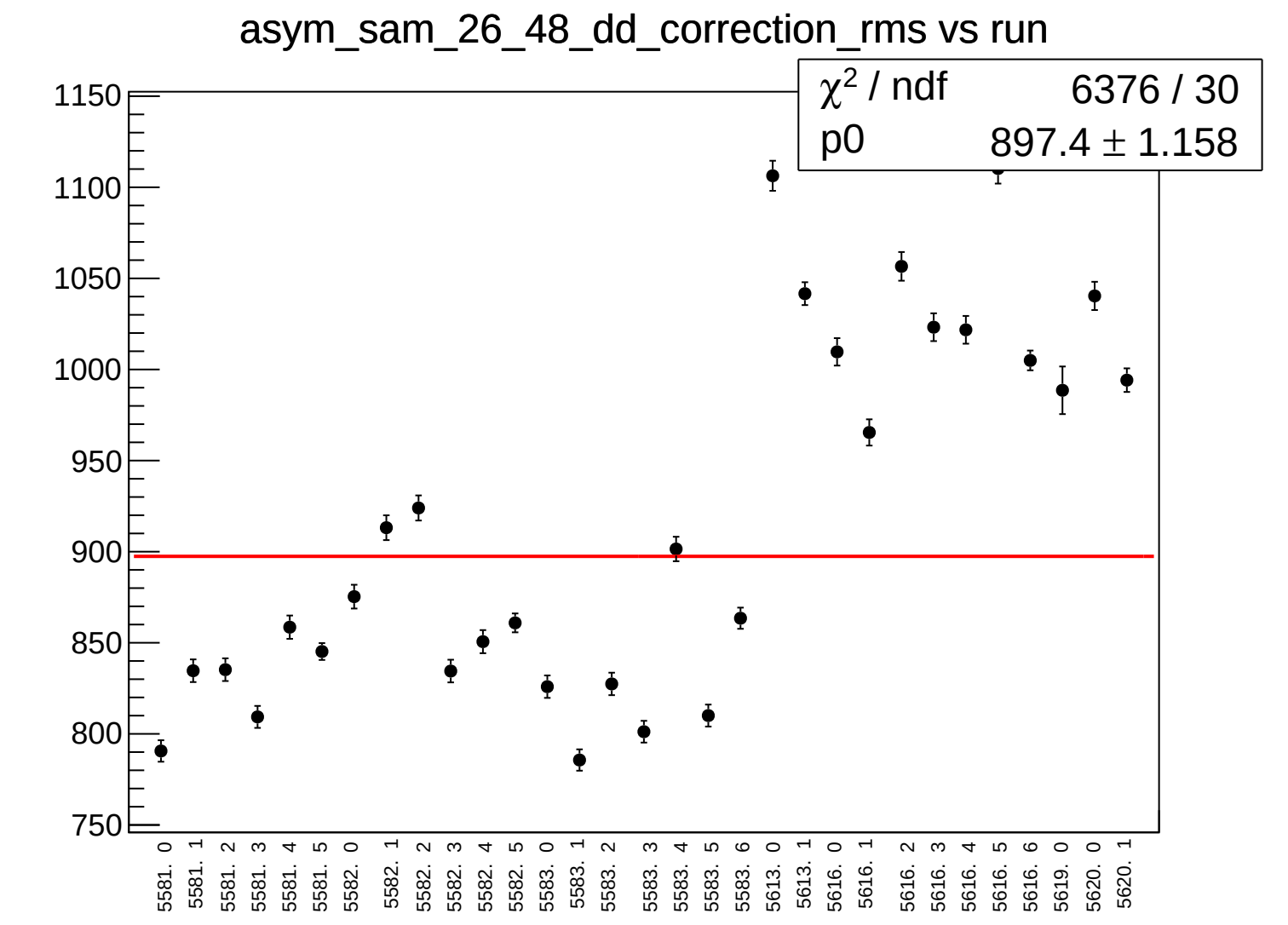

asym_sam_24_68_dd_rms vs run
χ² / ndf 3.231e+04 / 30
p0 1792 ± 2.365
4000
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

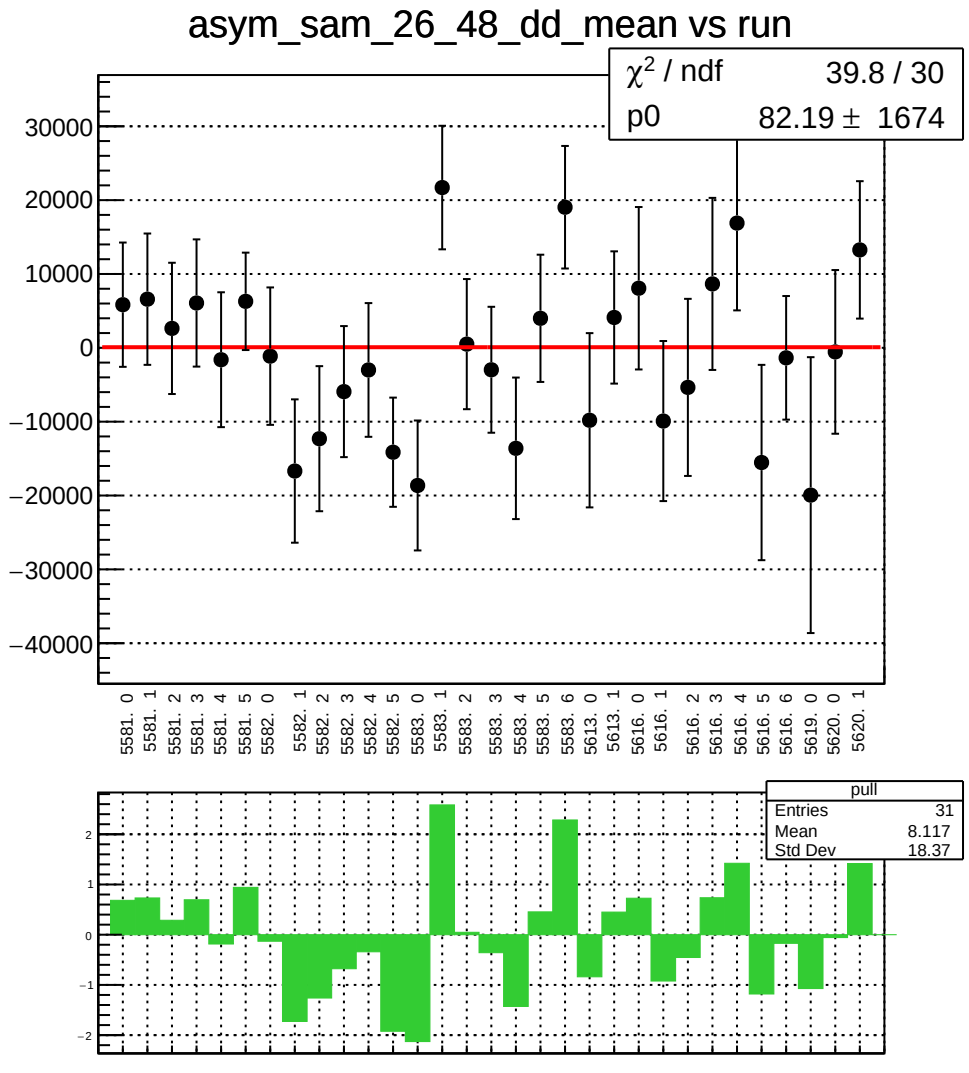

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 30.65 / 30
p0 −9.747 ± 250.4
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −156.6
Std Dev 174.1
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.009092
Std Dev 0.9943
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

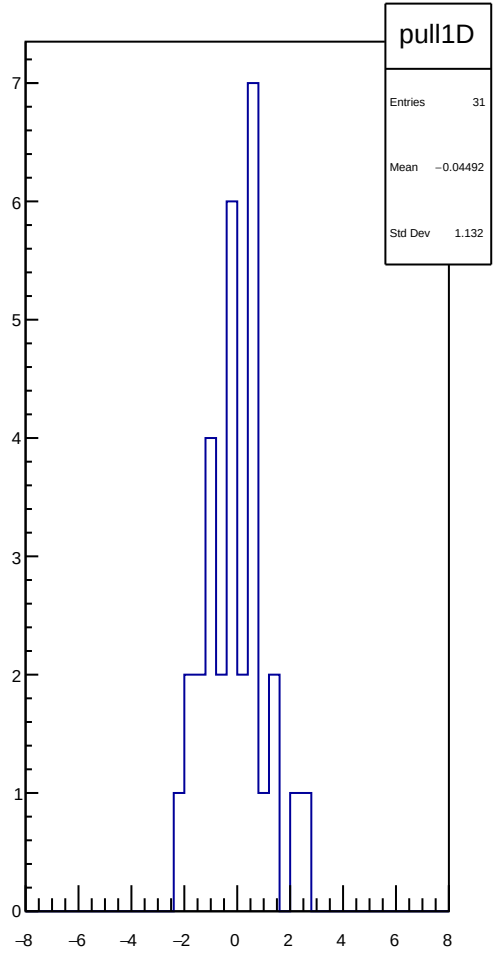

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 7.533e+04 / 30
p0 129 ± 0.1771
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

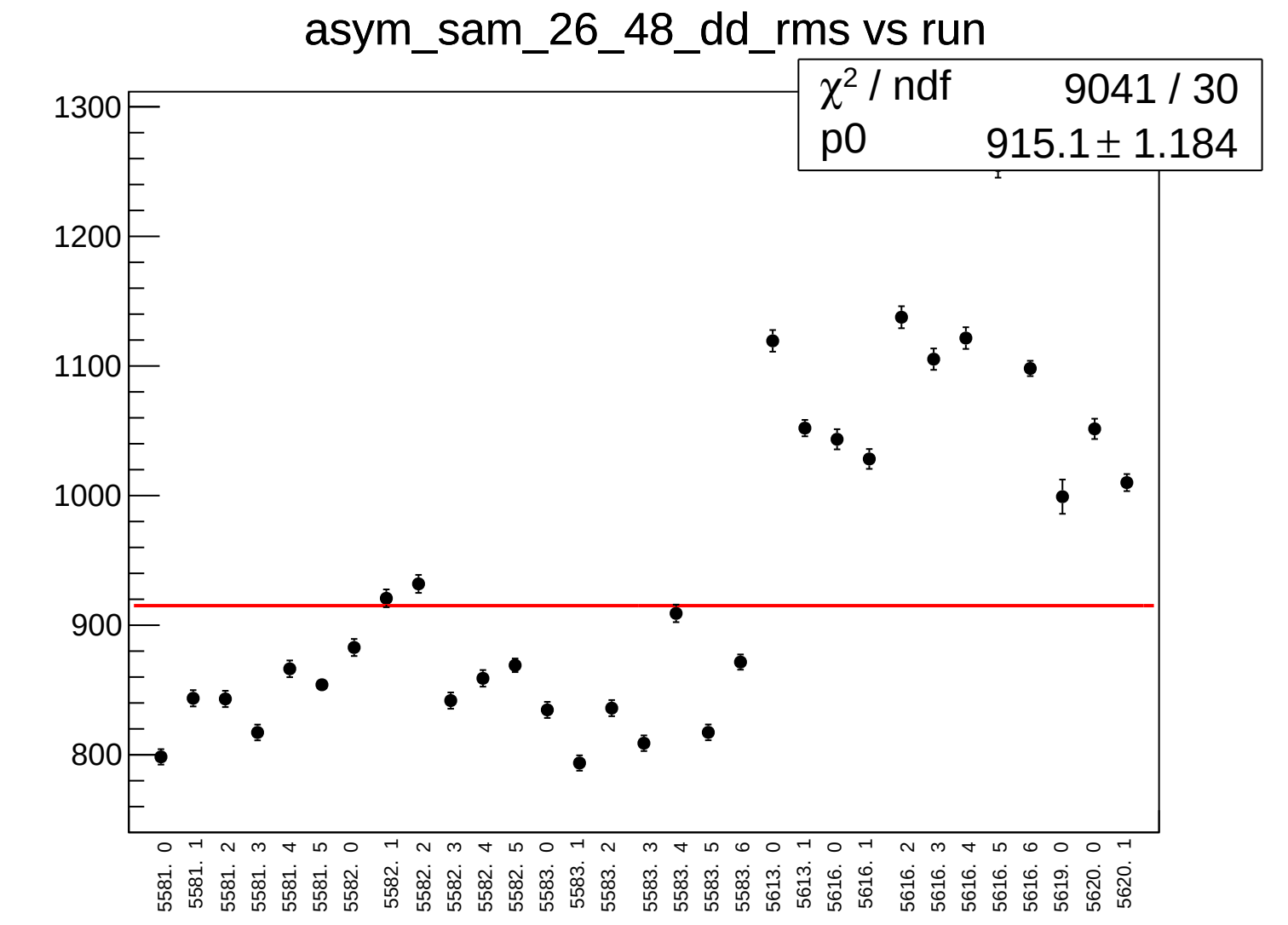

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 40.07 / 30
p0 −273.3 ± 1638
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 3.826
Std Dev 22.46
2
1
0
−1
−2

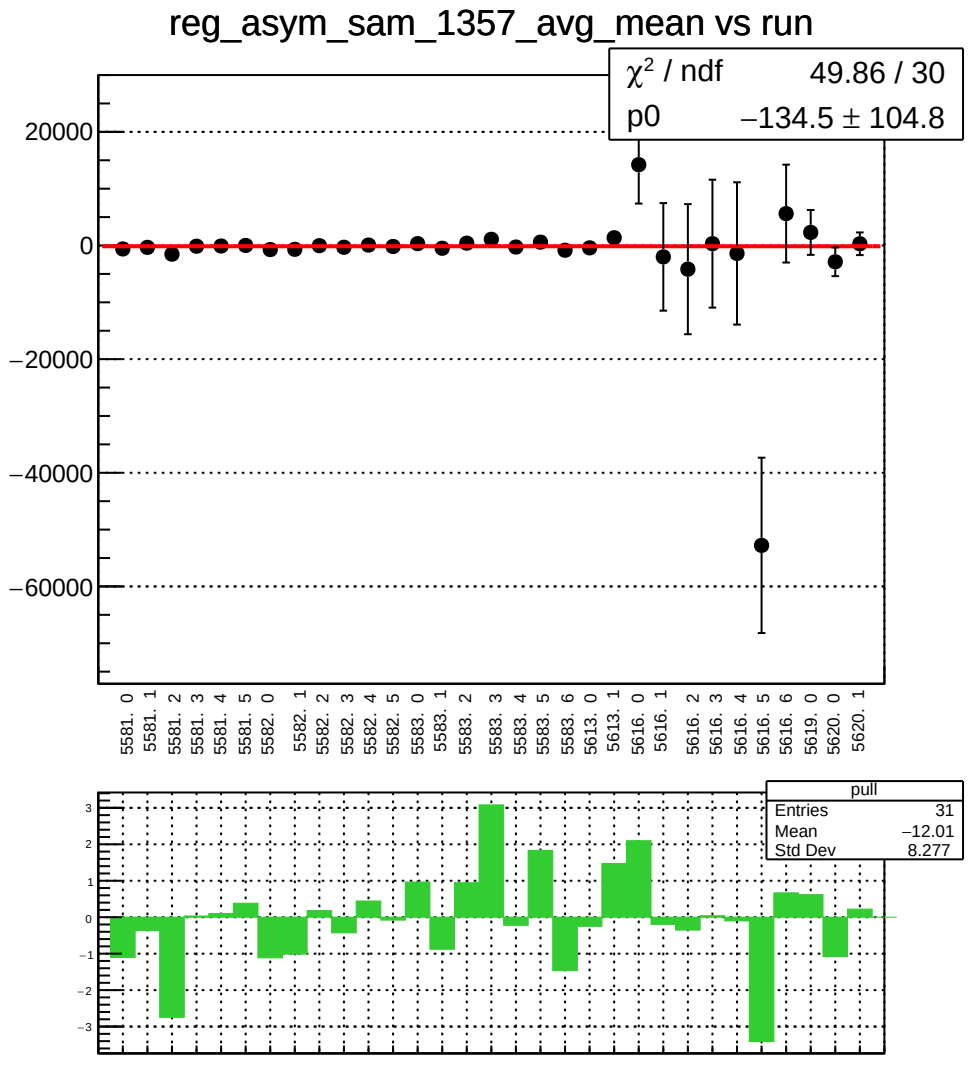

pull1D
Entries 31
Mean 0.0363
Std Dev 1.136
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

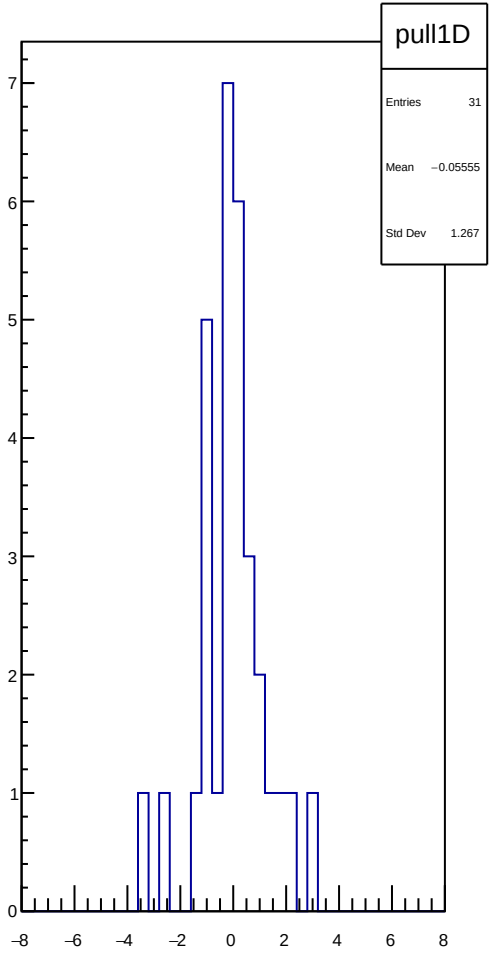

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 6376 / 30
p0 897.4 ± 1.158
1150
1100
1050
1000
950
900
850
800
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

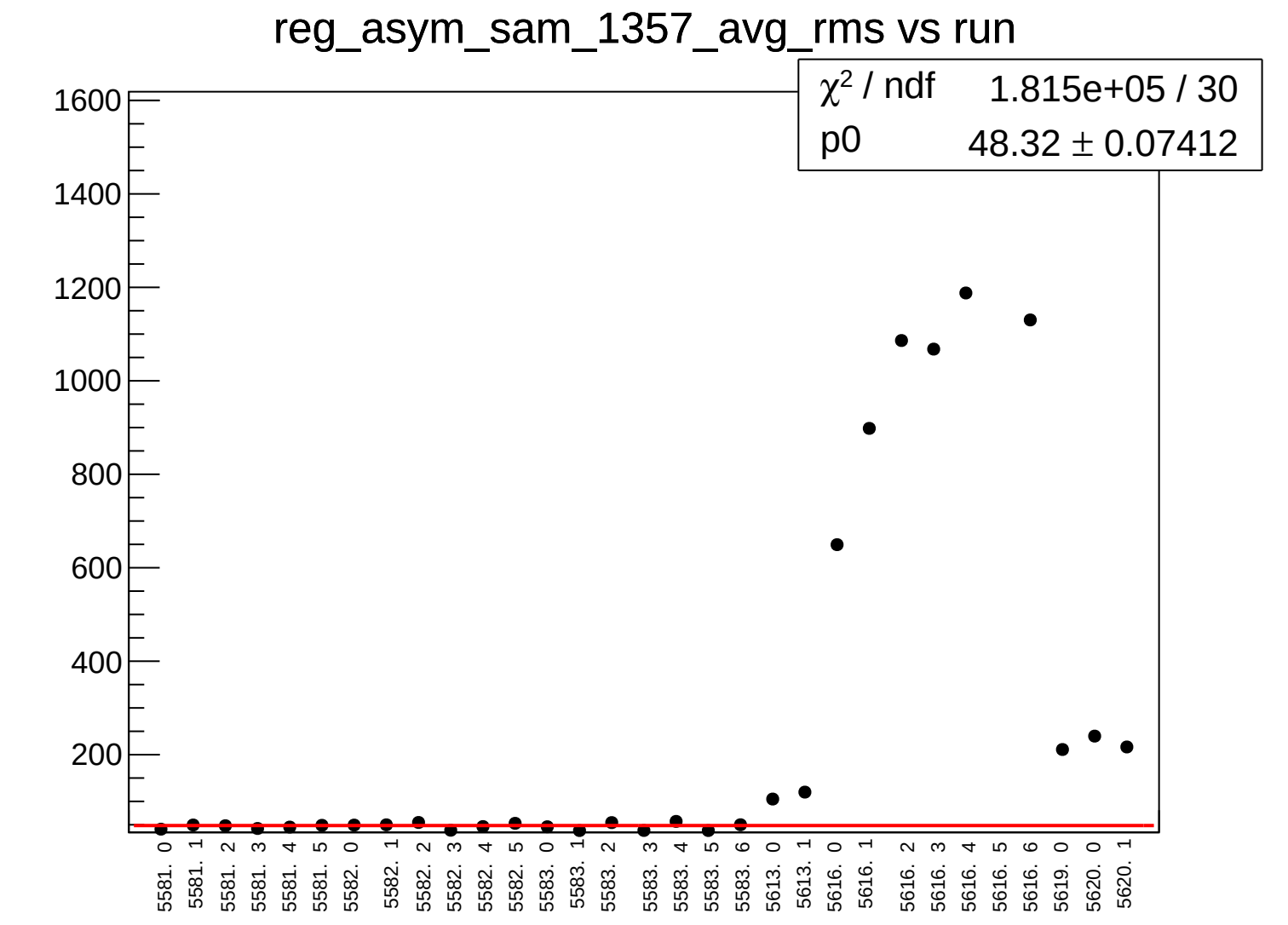

asym_sam_26_48_dd_mean vs run
χ² / ndf 39.8 / 30
p0 82.19 ± 1674
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.117
Std Dev 18.37
2
1
0
−1
−2

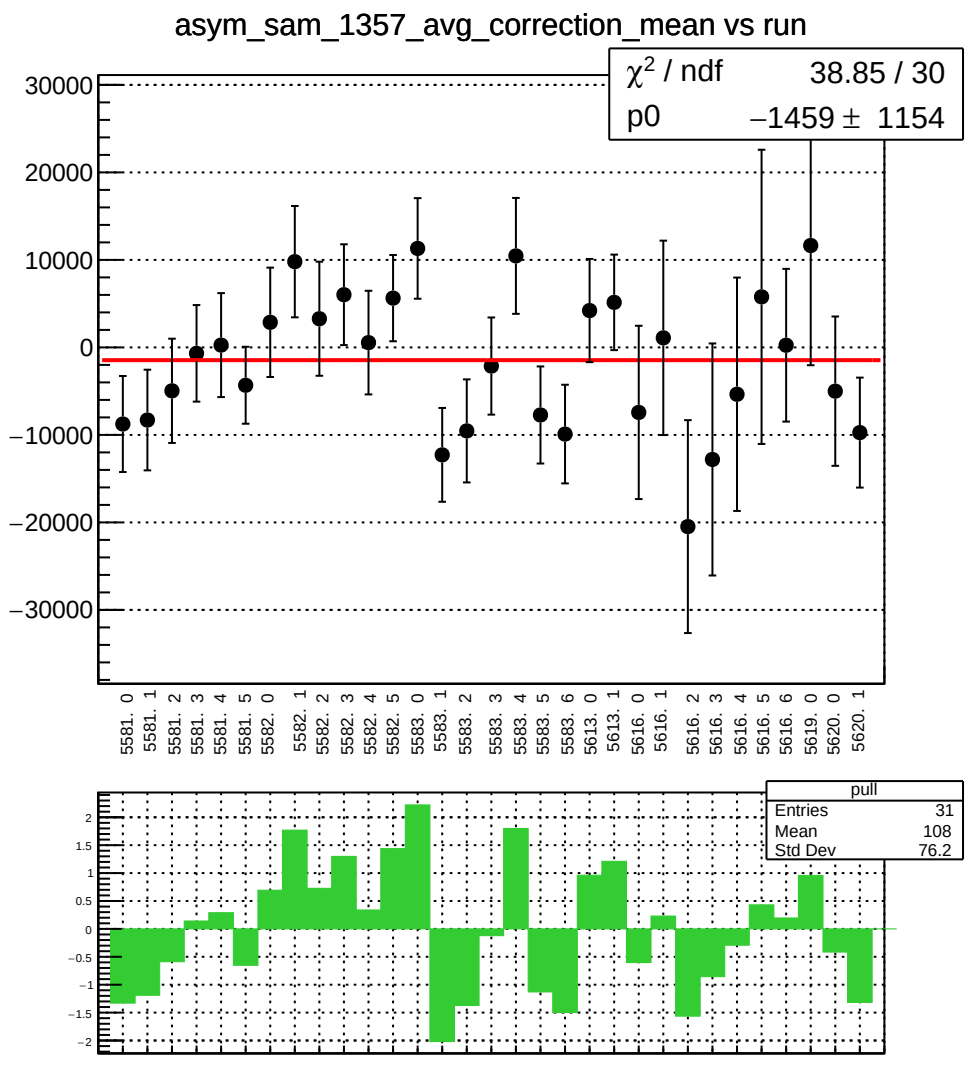

pull1D
Entries 31
Mean −0.04492
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

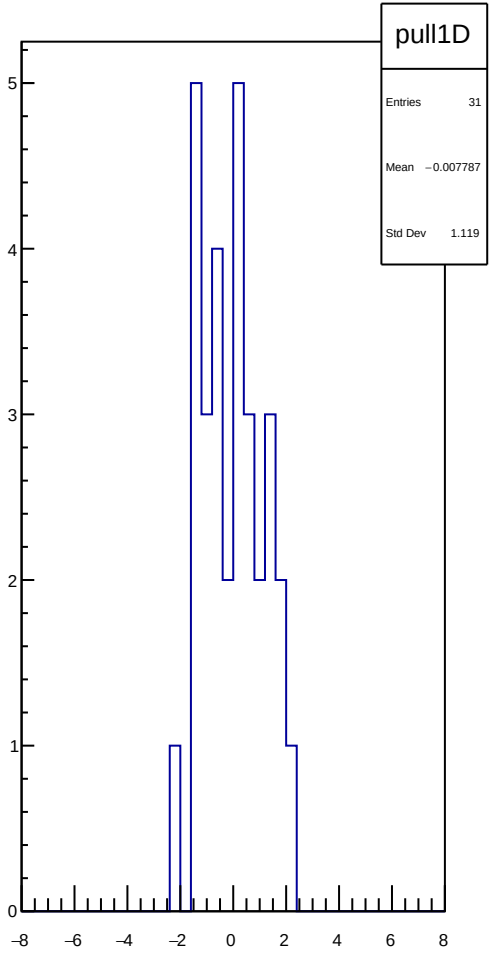

asym_sam_26_48_dd_rms vs run
χ² / ndf 9041 / 30
p0 915.1 ± 1.184
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

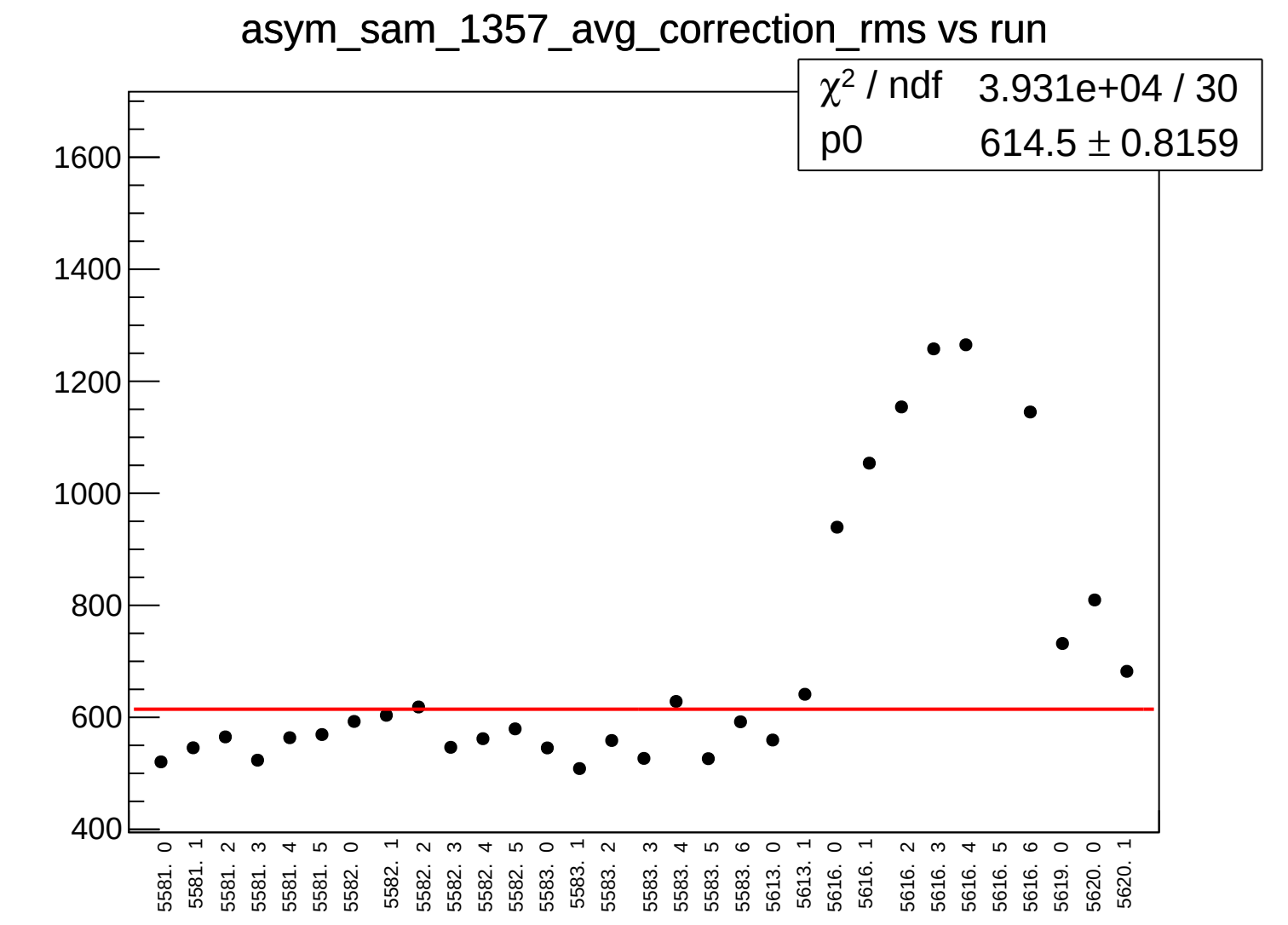

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 49.86 / 30
p0 −134.5 ± 104.8
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −12.01
Std Dev 8.277
3
2
1
0
−1
−2
−3

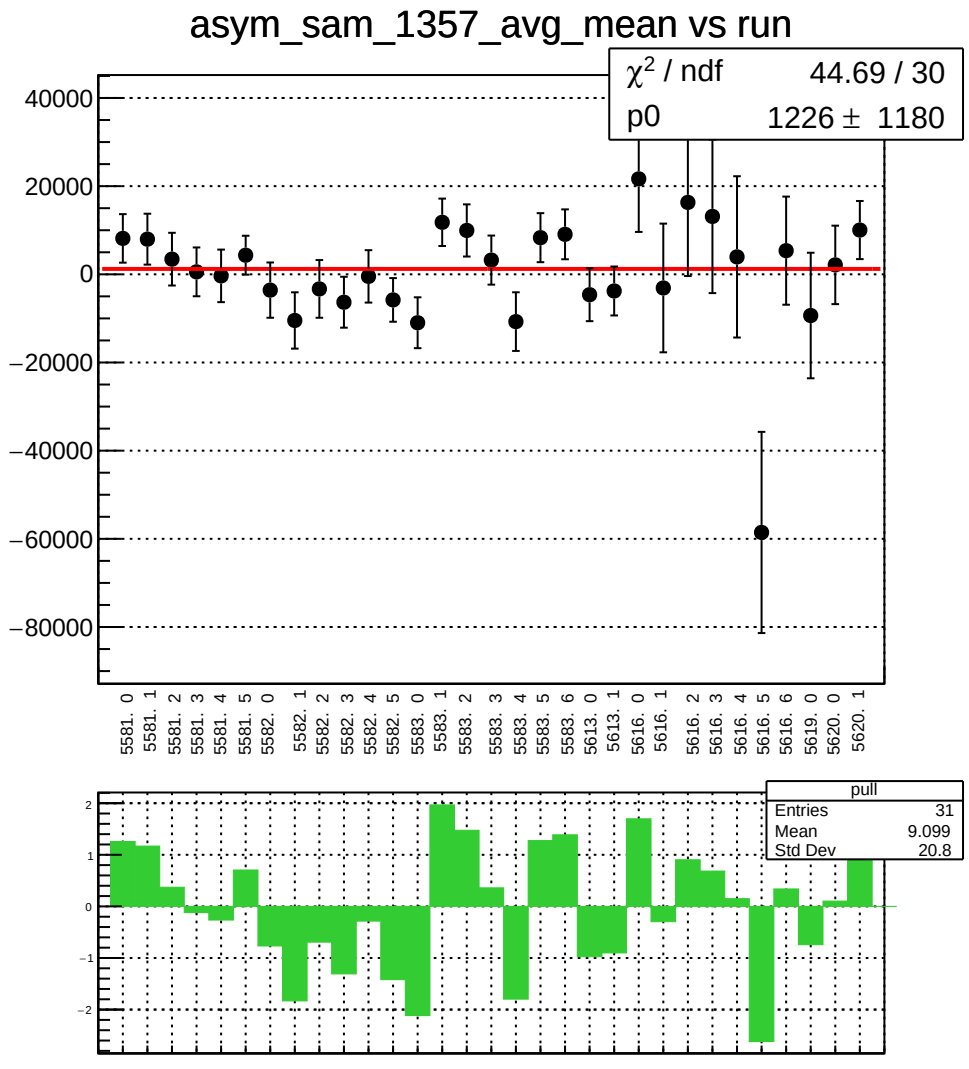

pull1D
Entries 31
Mean −0.05555
Std Dev 1.267
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

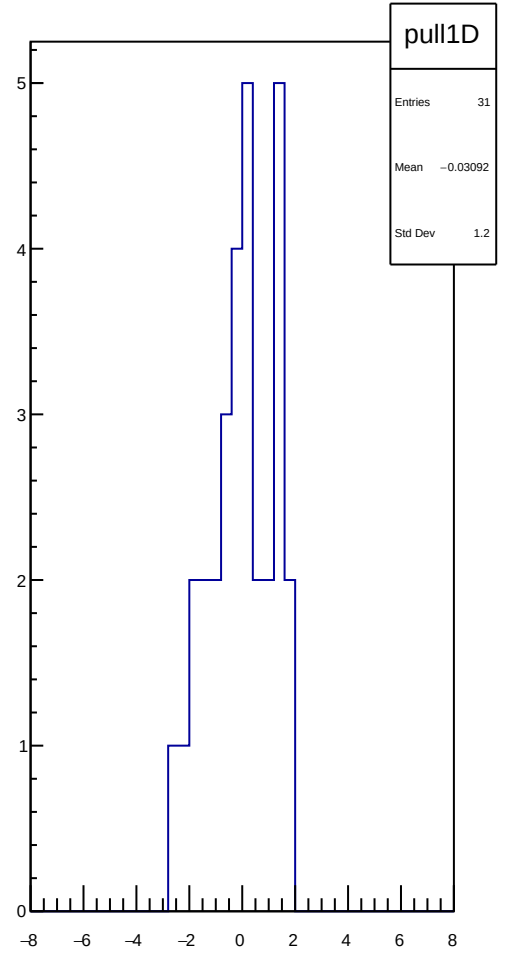

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.815e+05 / 30
p0 48.32 ± 0.07412
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

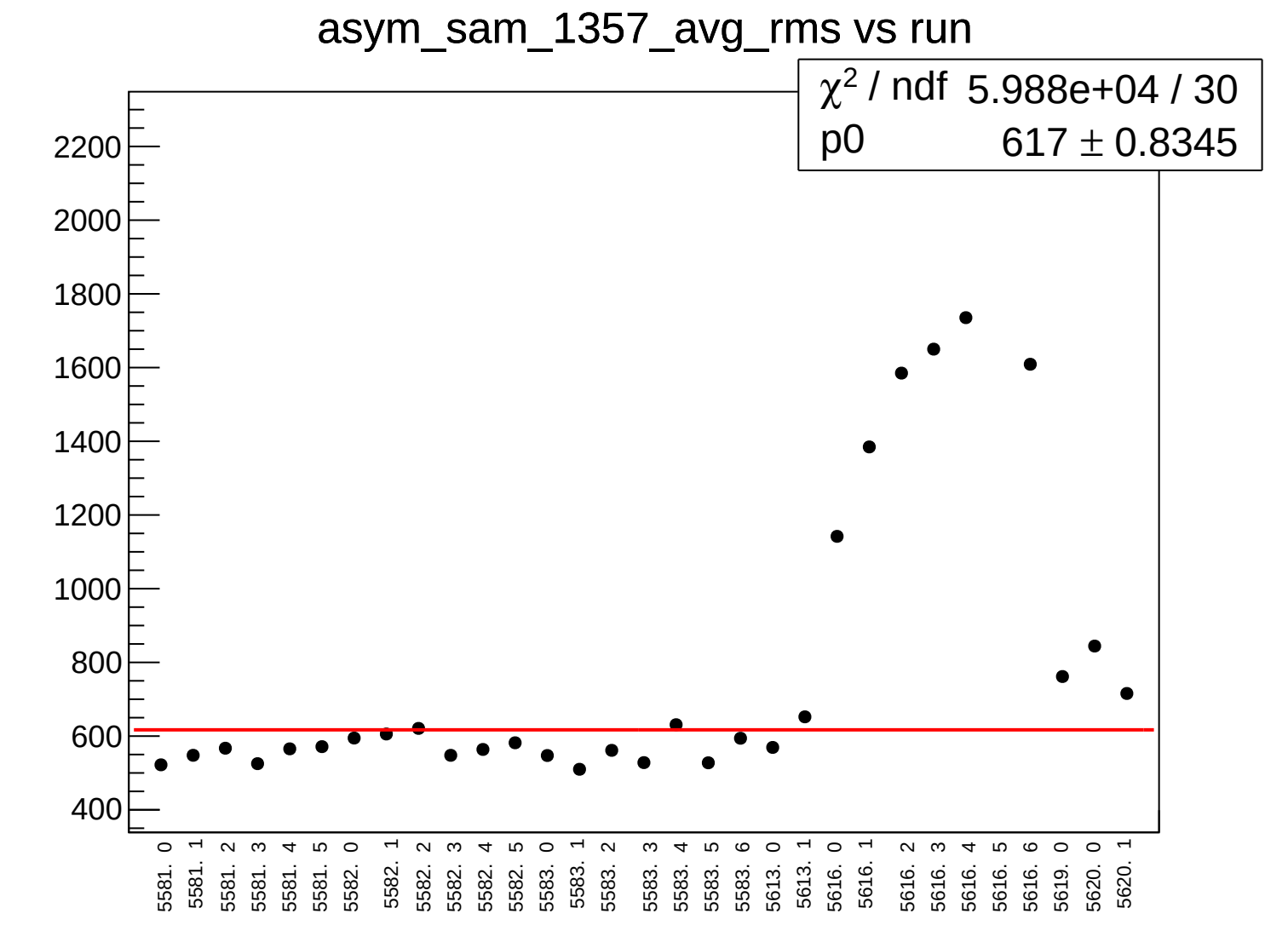

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 38.85 / 30
p0 −1459 ± 1154
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 108
Std Dev 76.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

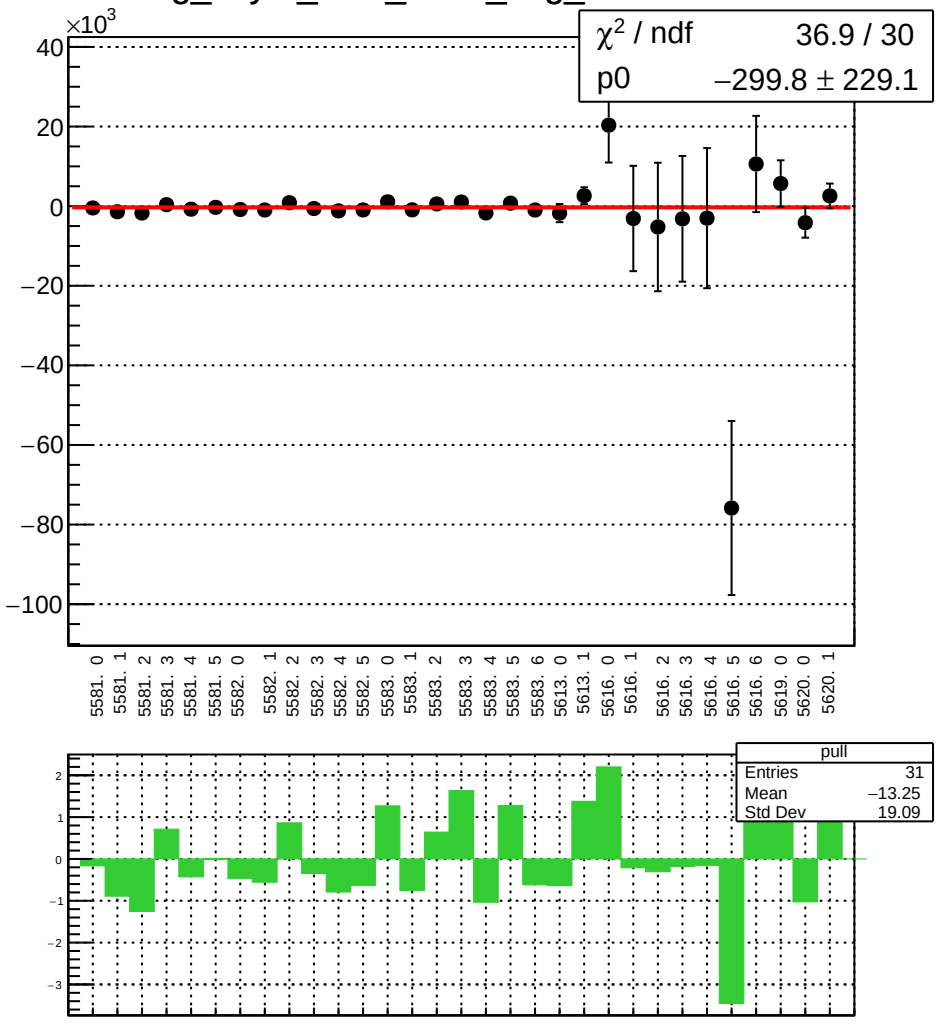

pull1D
Entries 31
Mean −0.007787
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

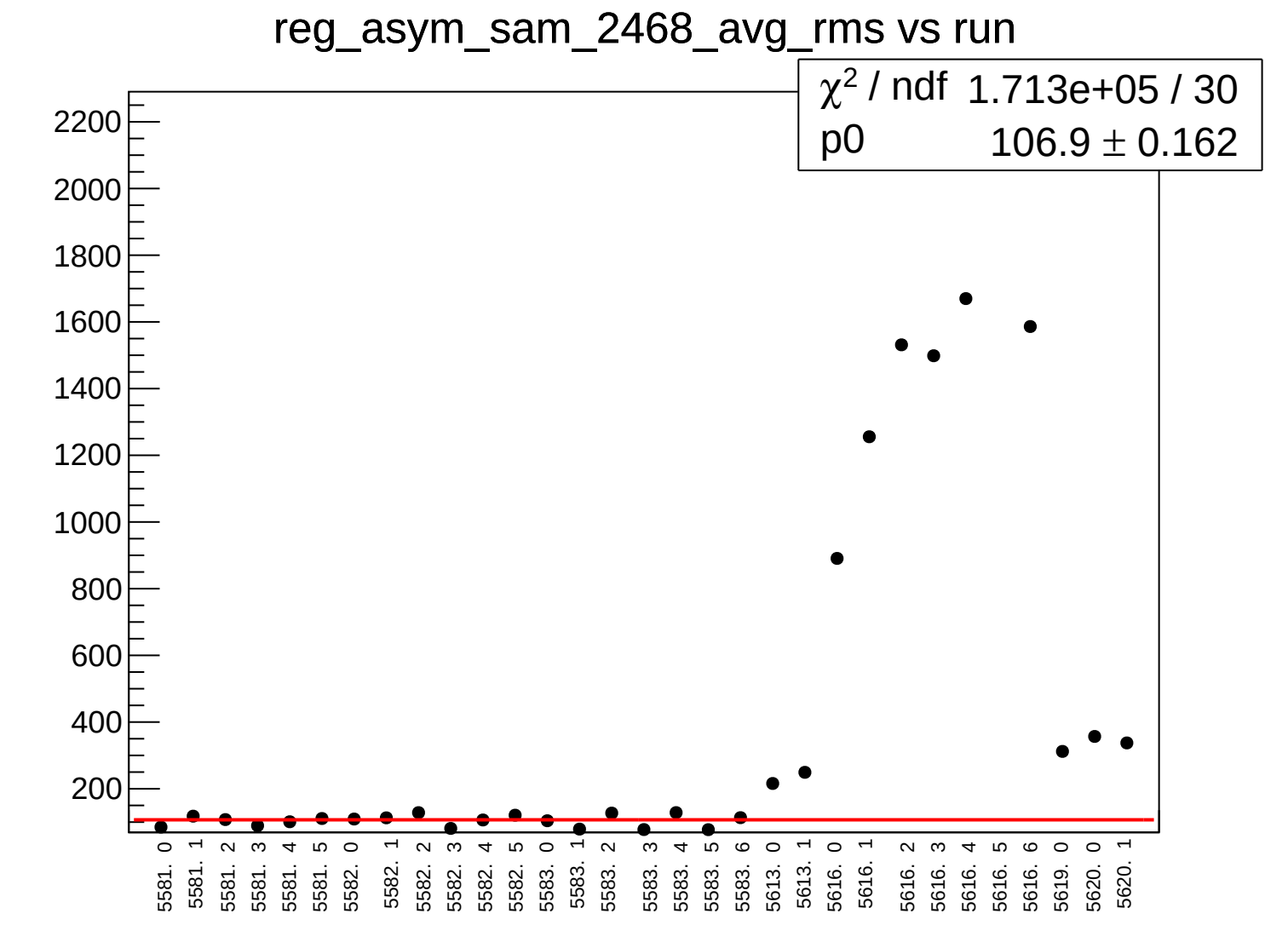

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 3.931e+04 / 30
p0 614.5 ± 0.8159
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

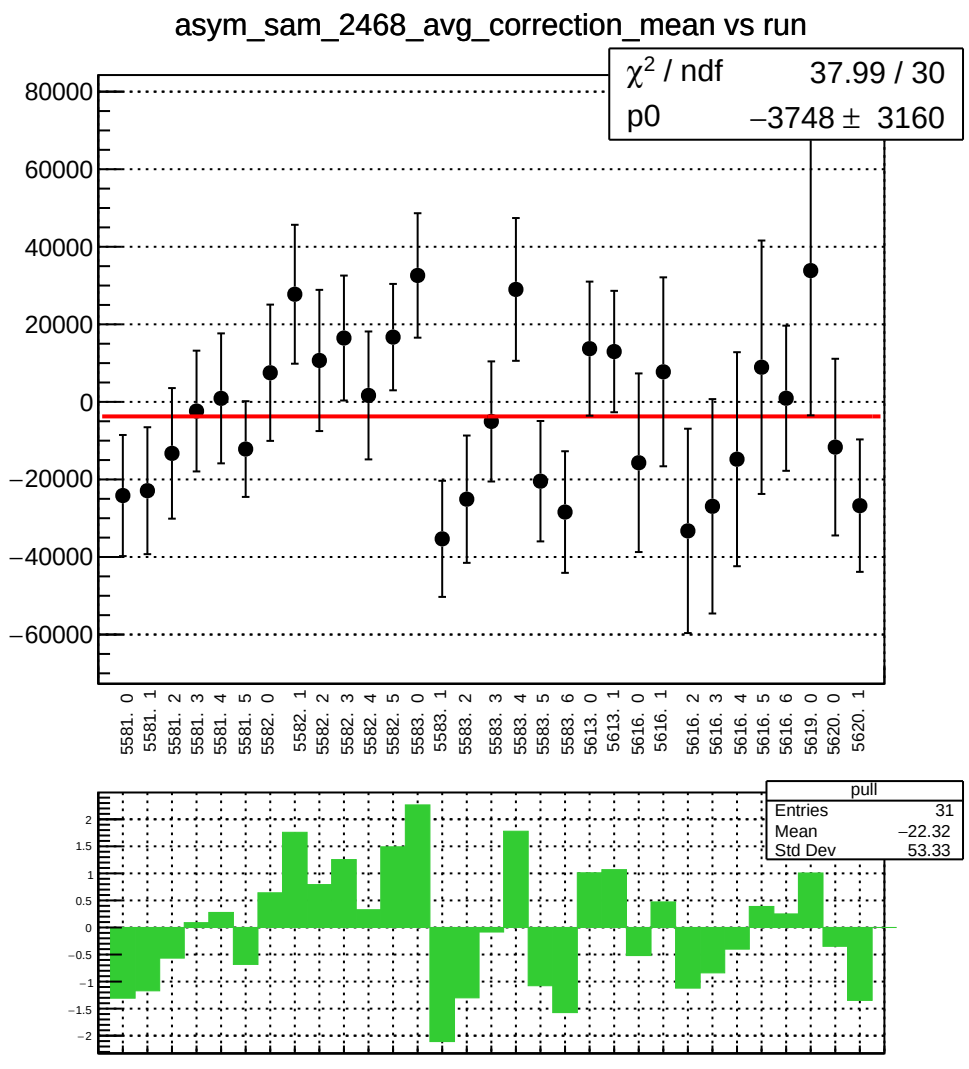

asym_sam_1357_avg_mean vs run
χ² / ndf 44.69 / 30
p0 1226 ± 1180
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 9.099
Std Dev 20.8
2
1
0
−1
−2

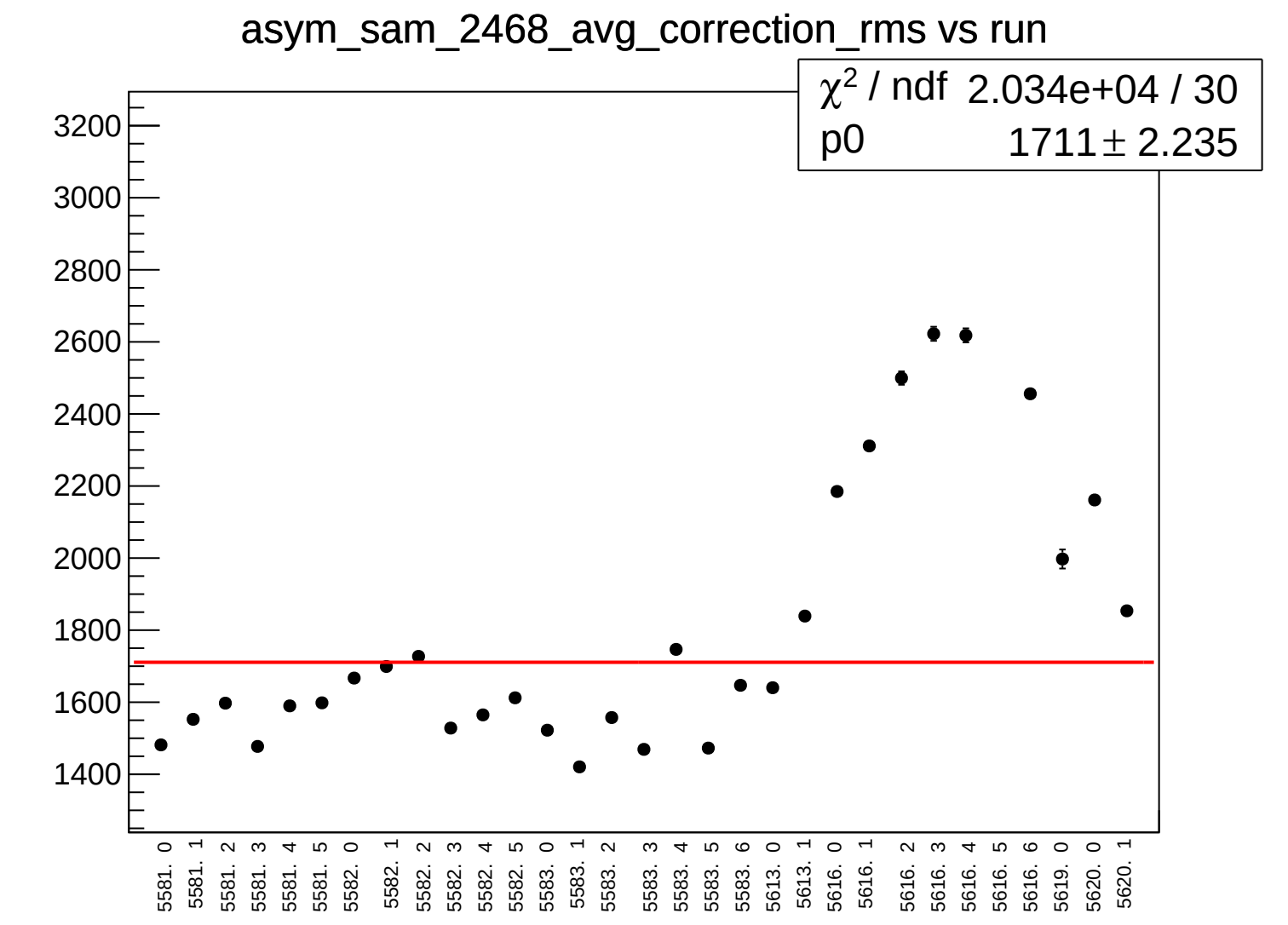

pull1D
Entries 31
Mean −0.03092
Std Dev 1.2
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

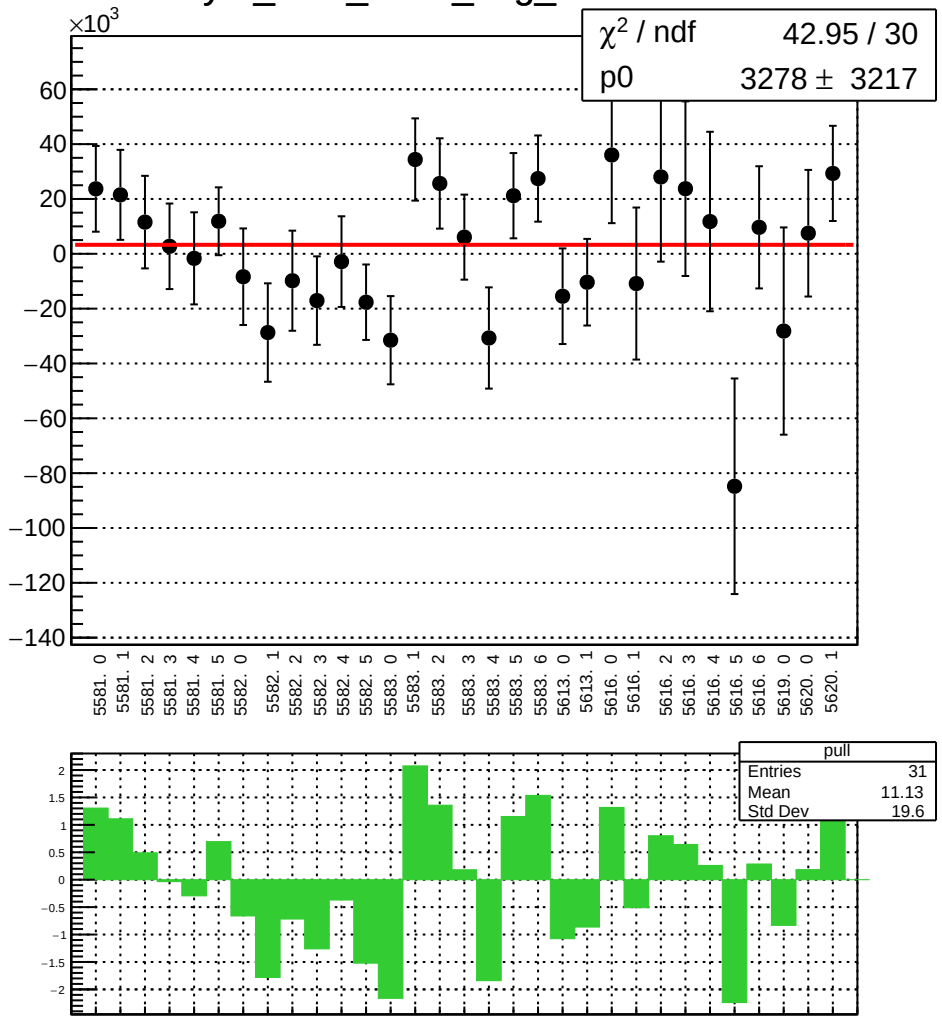

asym_sam_1357_avg_rms vs run
χ² / ndf 5.988e+04 / 30
p0 617 ± 0.8345
2200
2000
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

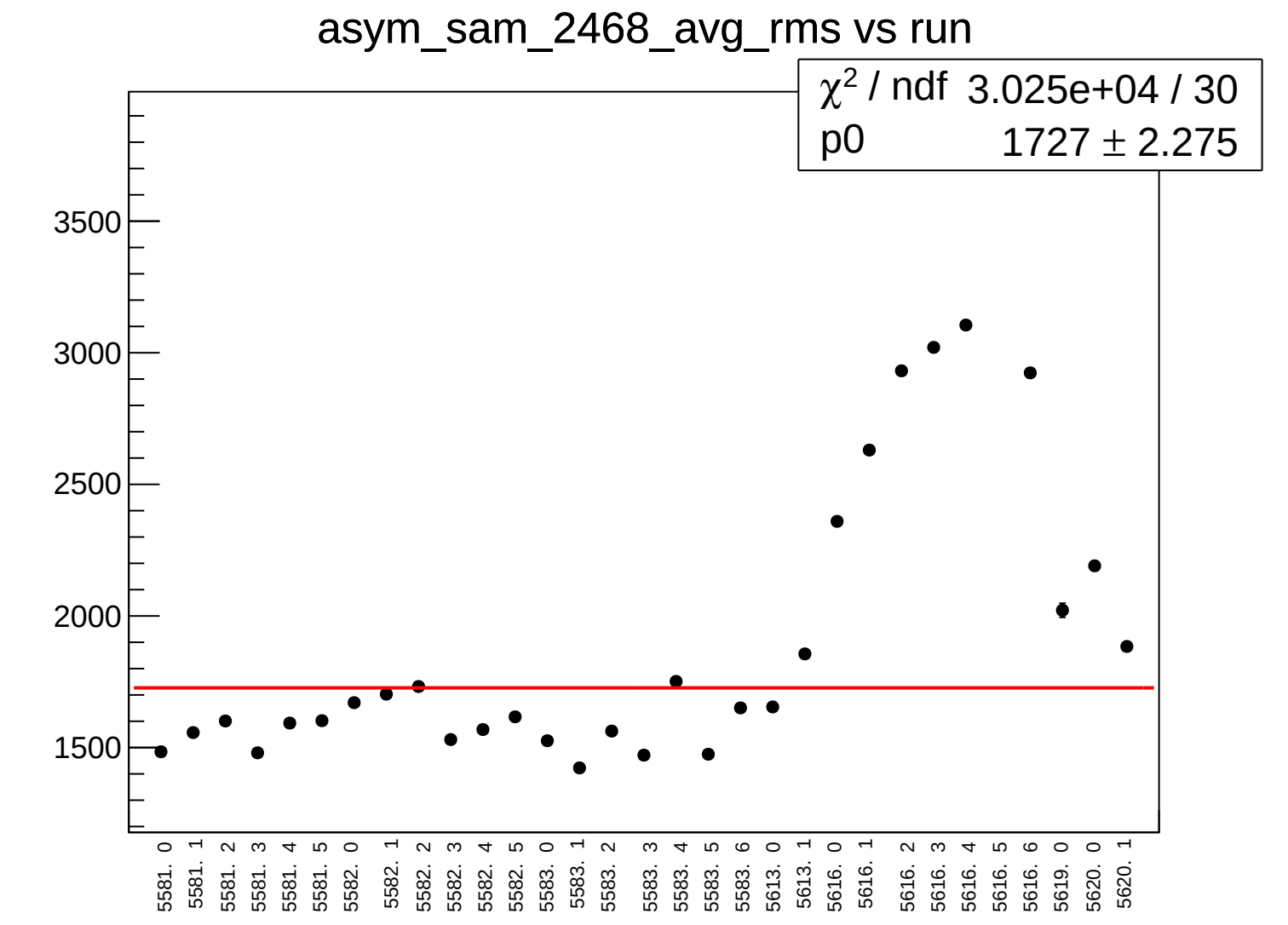

reg_asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 36.9 / 30
p0 −299.8 ± 229.1
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −13.25
Std Dev 19.09
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.03526
Std Dev 1.09
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

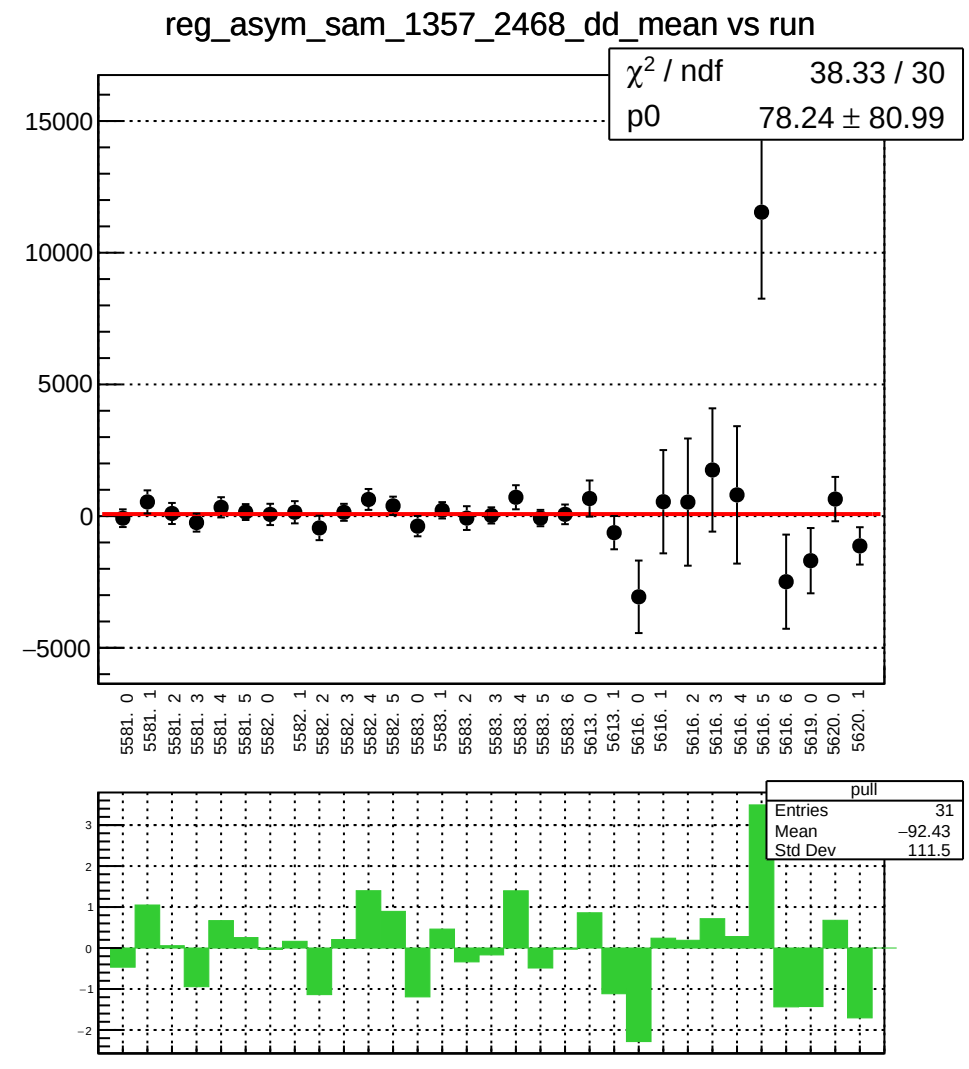

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.713e+05 / 30
p0 106.9 ± 0.162
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

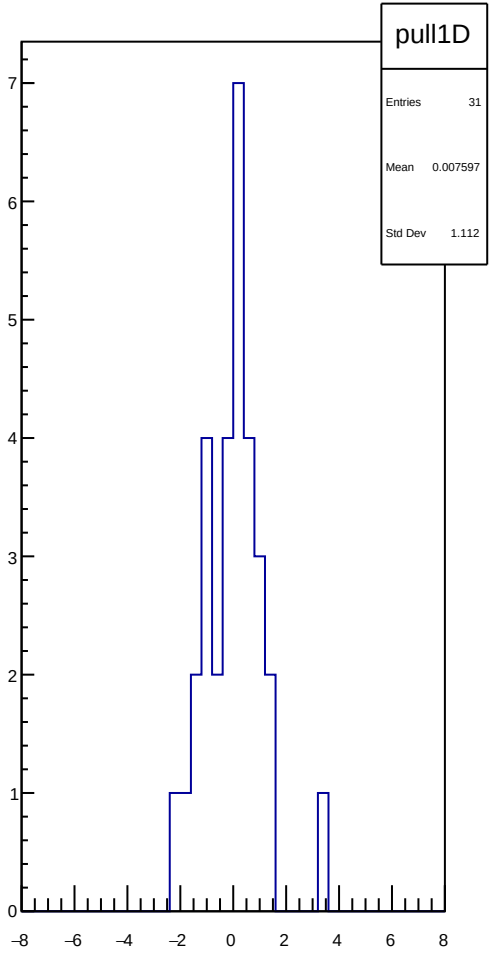

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 37.99 / 30
p0 −3748 ± 3160
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −22.32
Std Dev 53.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01407
Std Dev 1.107
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

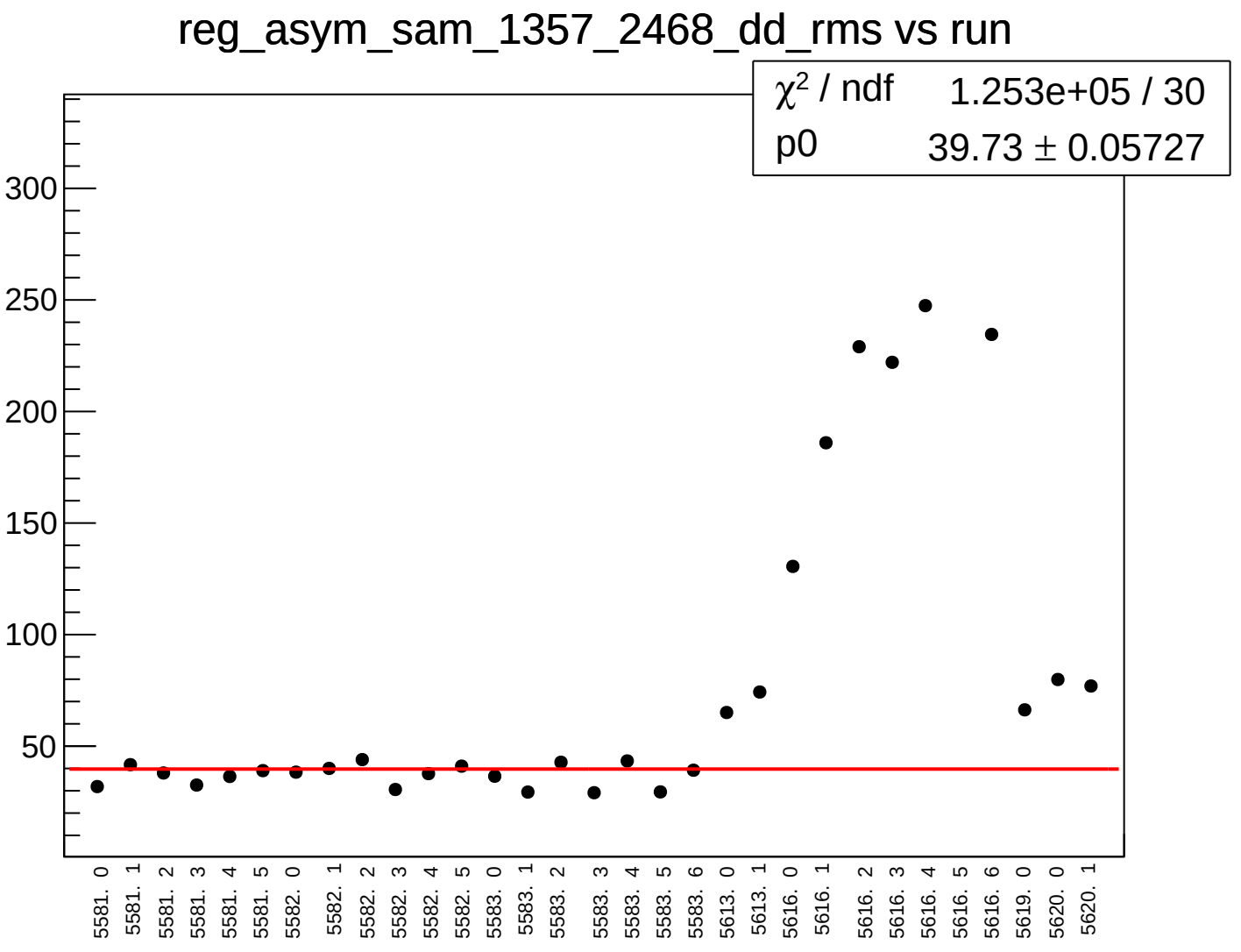

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 2.034e+04 / 30
p0 1711 ± 2.235
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

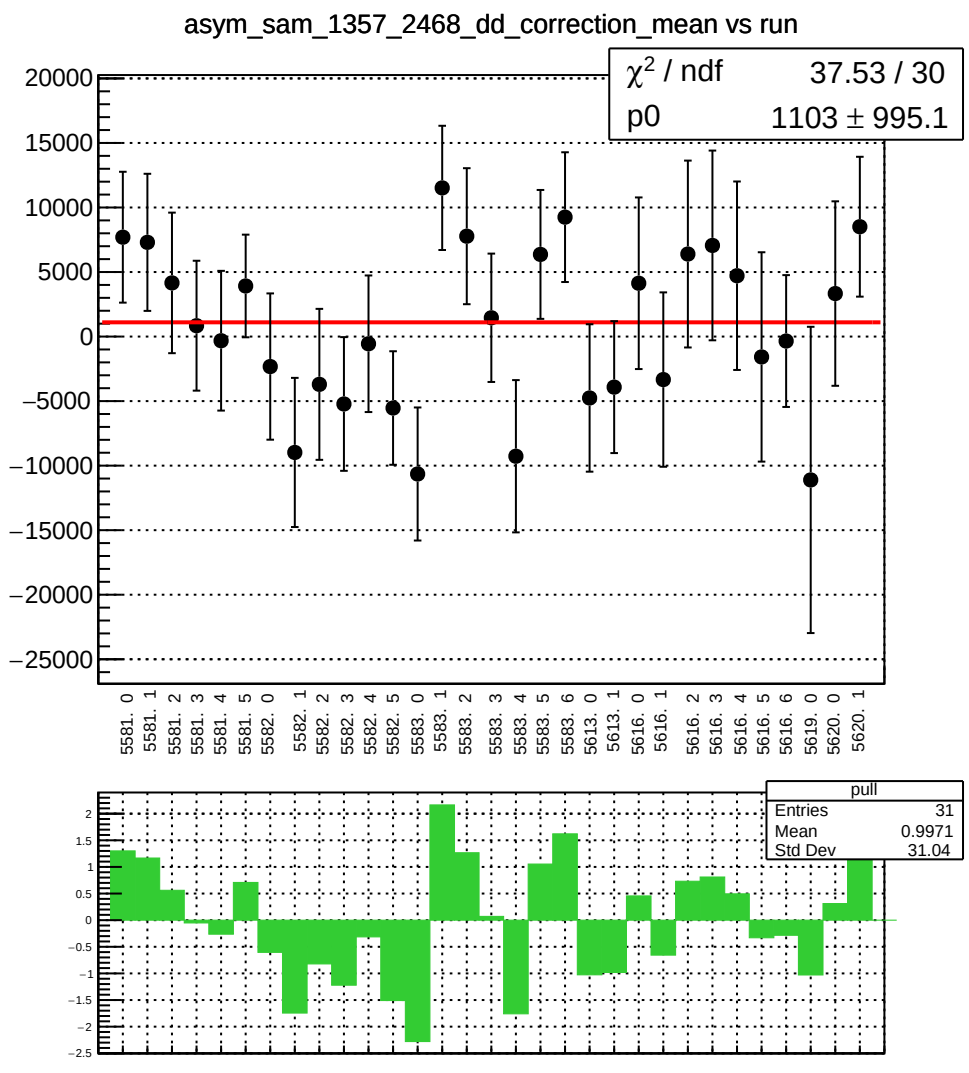

asym_sam_2468_avg_mean vs run
×10^3
χ^2 / ndf 42.95 / 30
p0 3278 ± 3217
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 11.13
Std Dev 19.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.04102
Std Dev 1.176
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

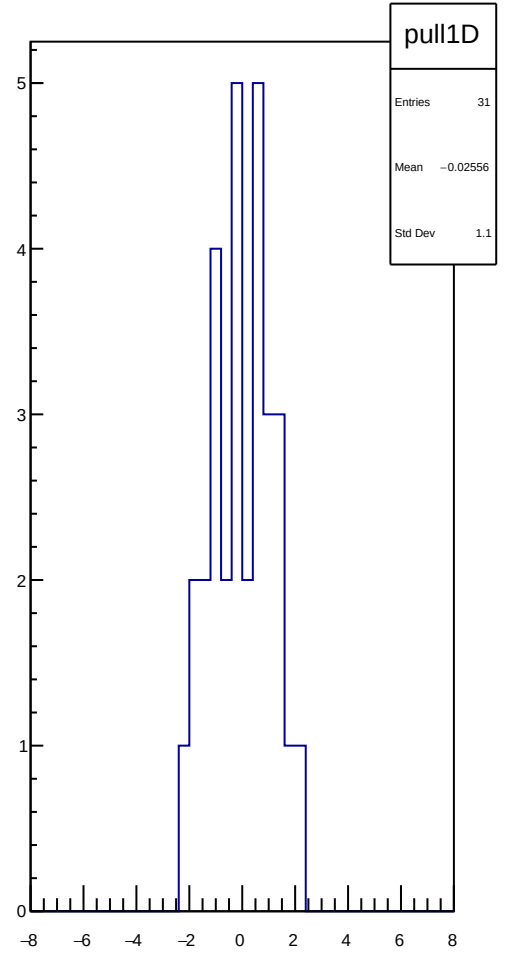

asym_sam_2468_avg_rms vs run
χ² / ndf 3.025e+04 / 30
p0 1727 ± 2.275
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

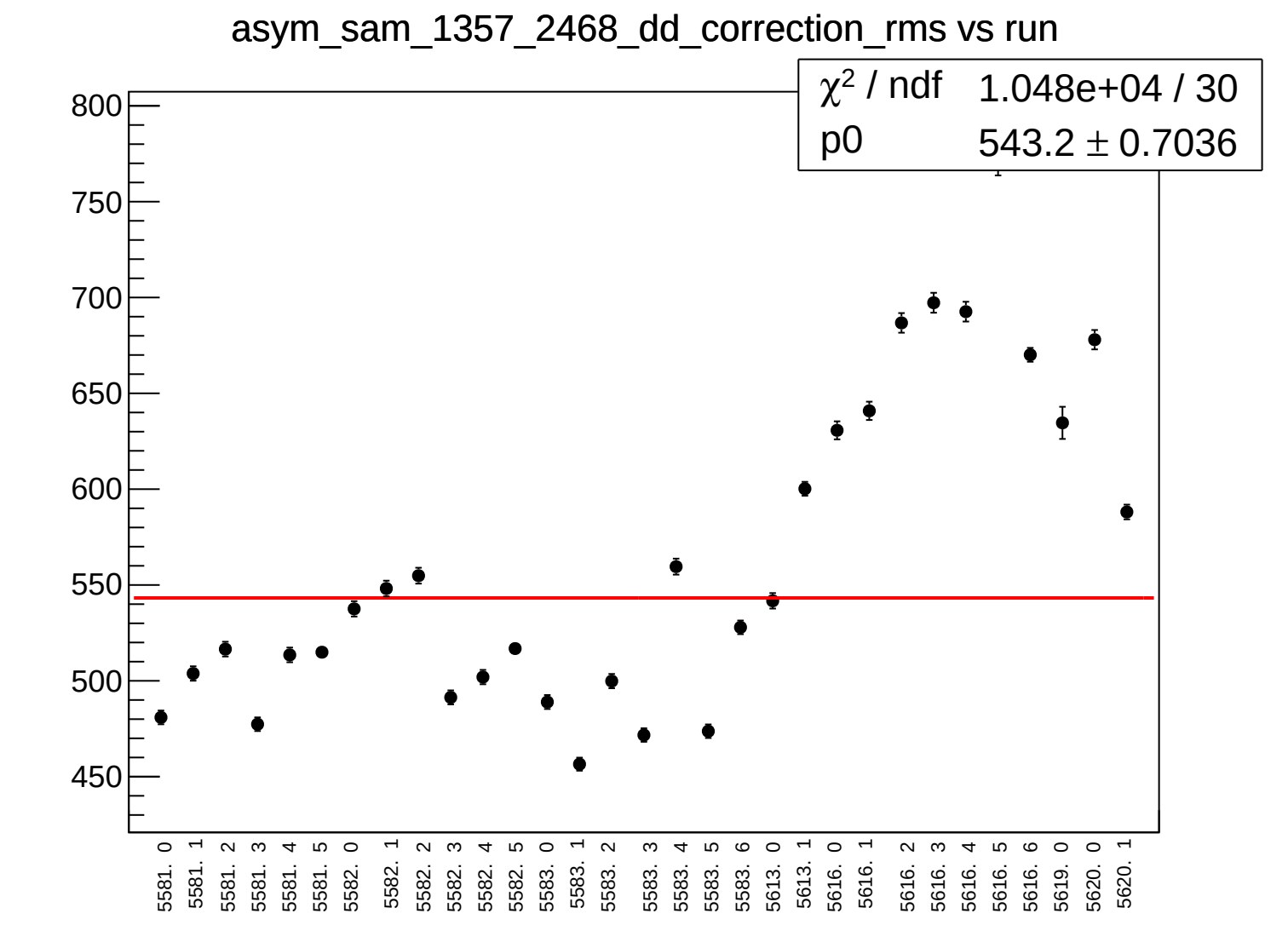

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 38.33 / 30
p0 78.24 ± 80.99
15000
10000
5000
0
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −92.43
Std Dev 111.5
3
2
1
0
−1
−2

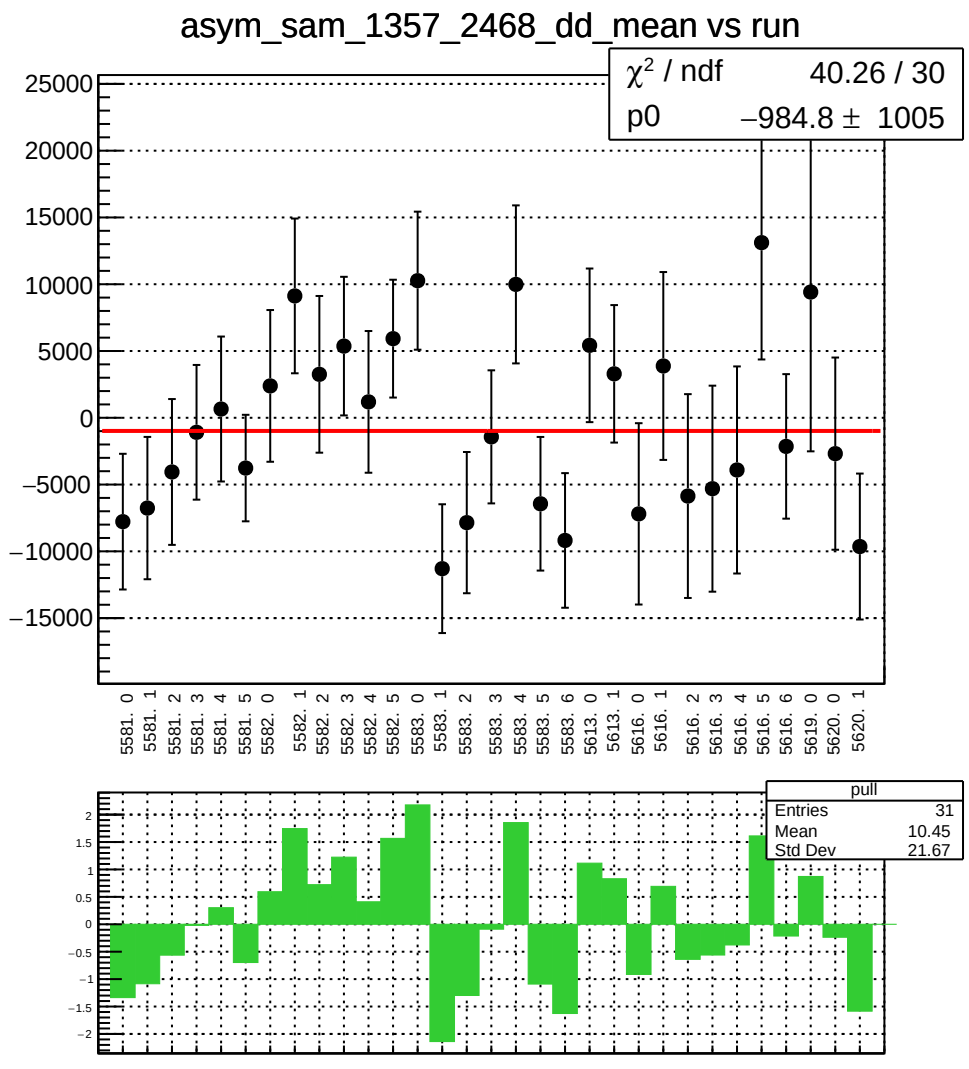

pull1D
Entries 31
Mean 0.007597
Std Dev 1.112
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

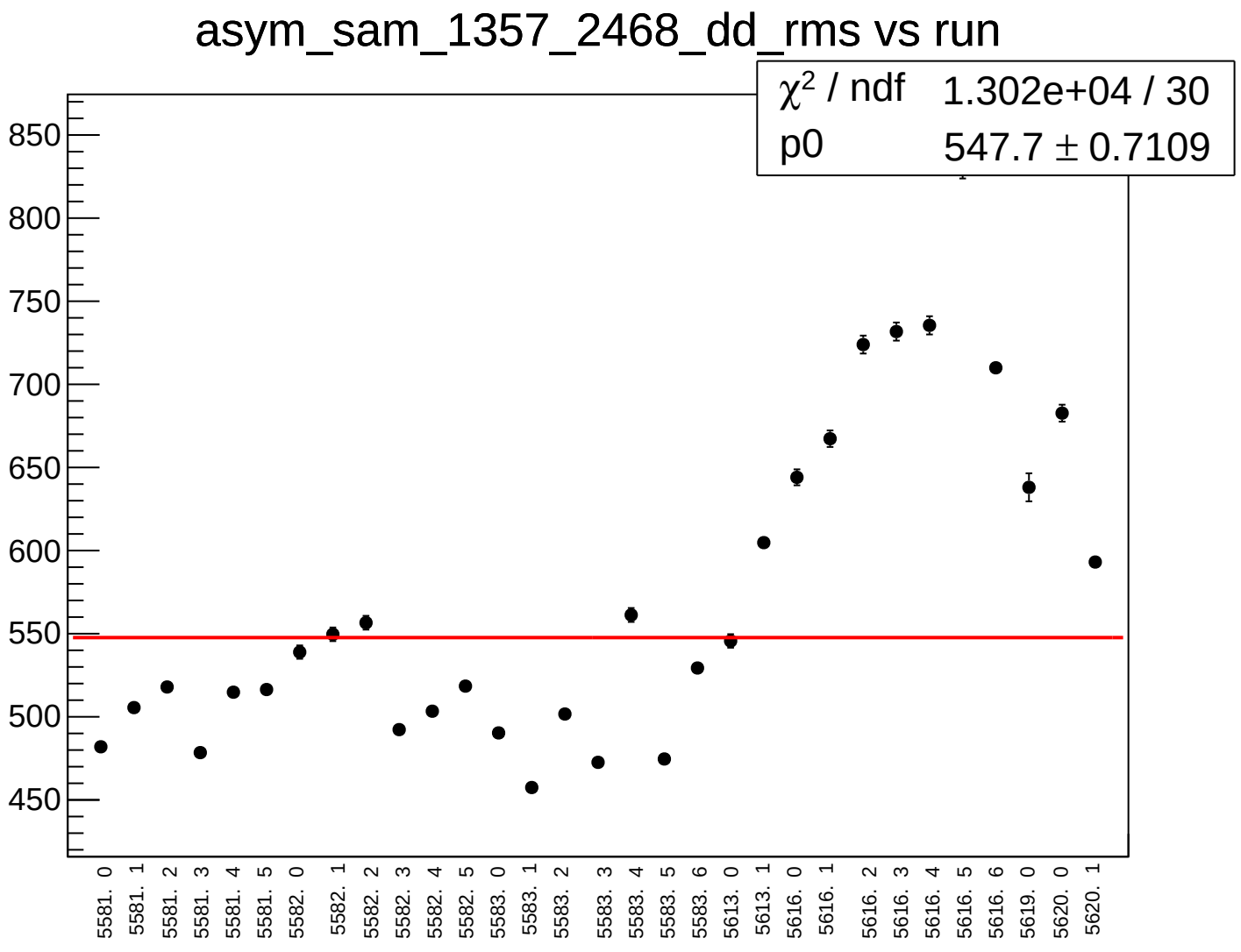

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.253e+05 / 30
p0 39.73 ± 0.05727
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

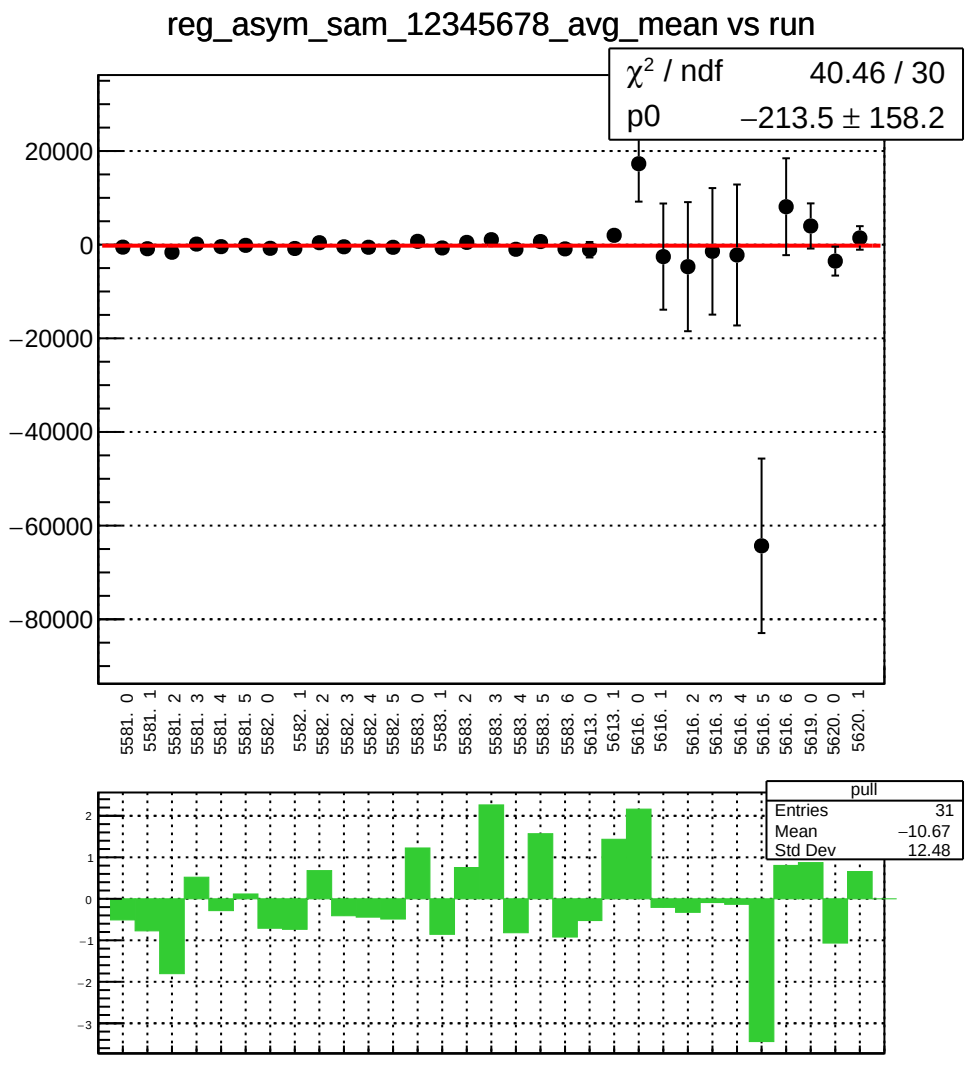

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 37.53 / 30
p0 1103 ± 995.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 0.9971
Std Dev 31.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

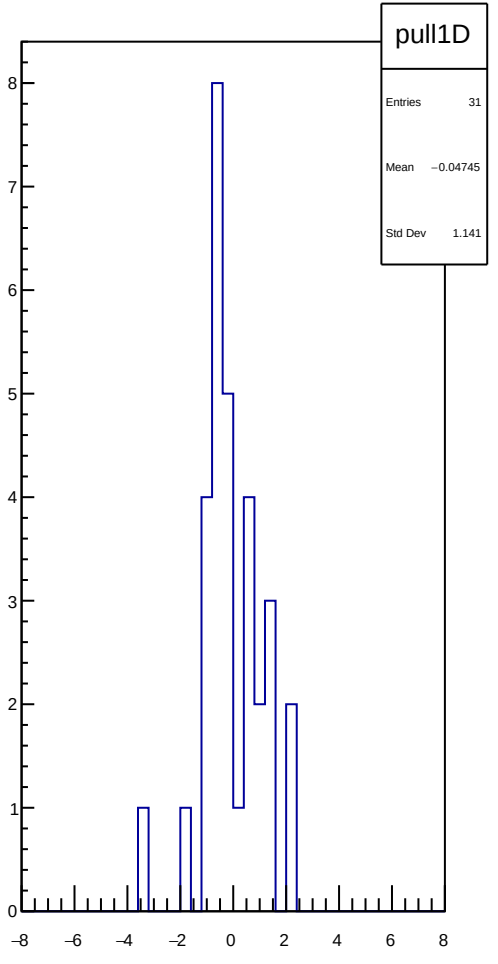

pull1D
Entries 31
Mean −0.02556
Std Dev 1.1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

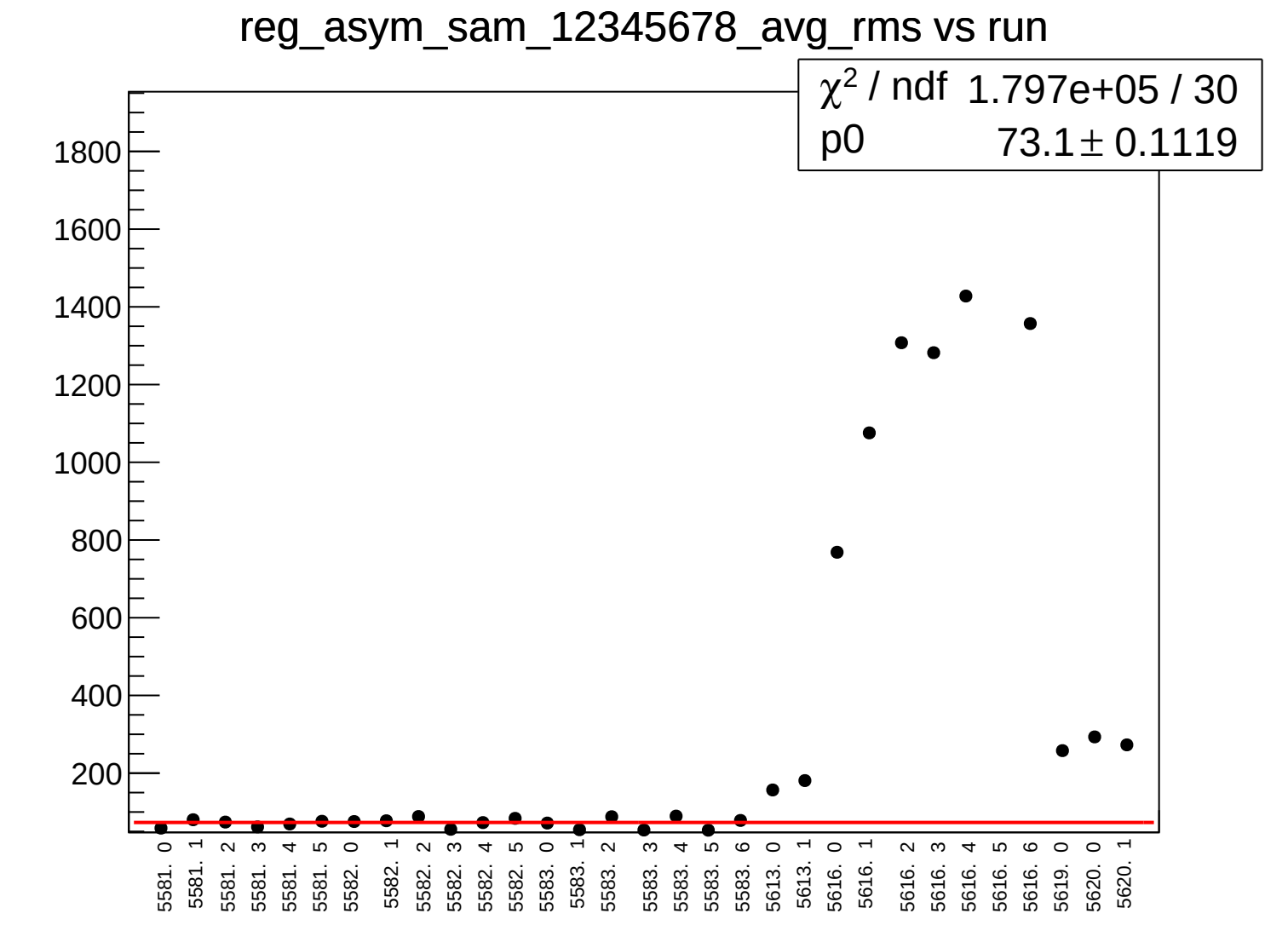

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.048e+04 / 30
p0 543.2 ± 0.7036
800
750
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

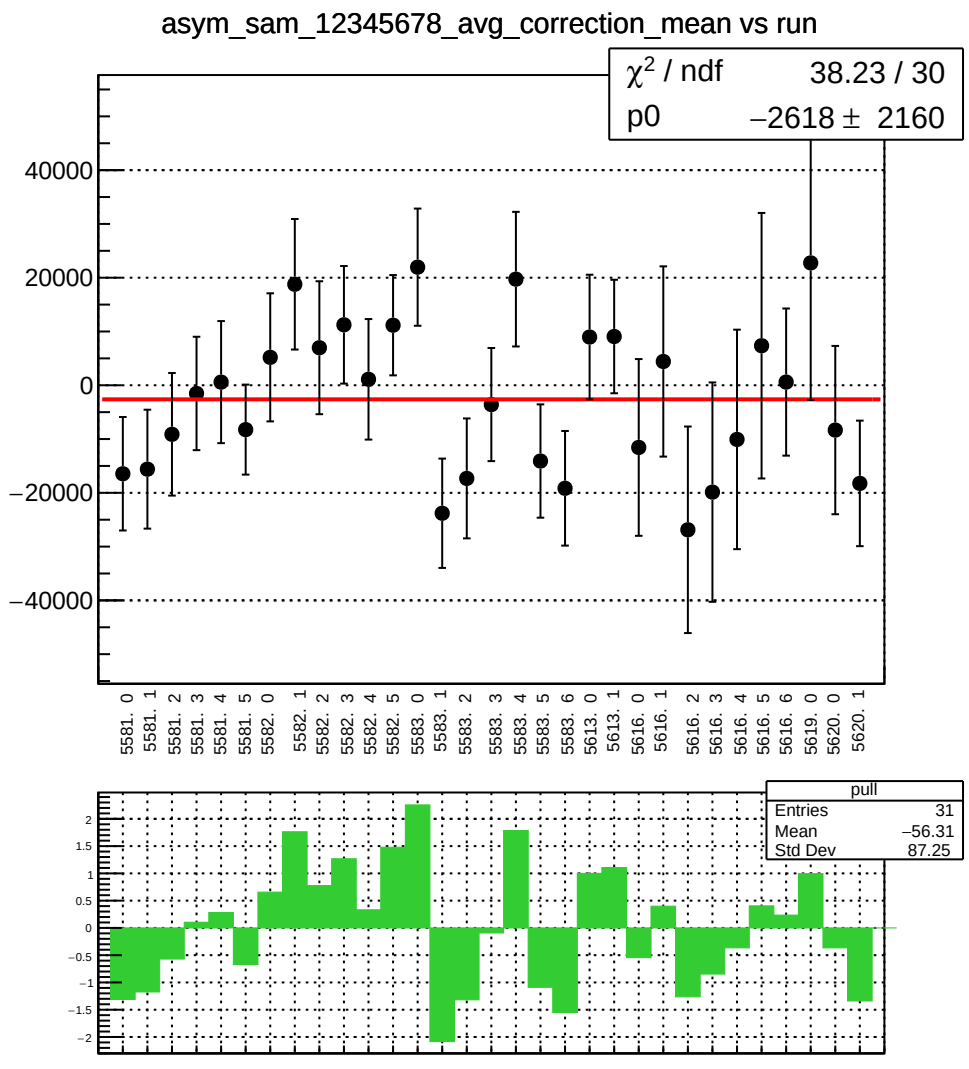

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 40.26 / 30
p0 −984.8 ± 1005
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.45
Std Dev 21.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.04018
Std Dev 1.139
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

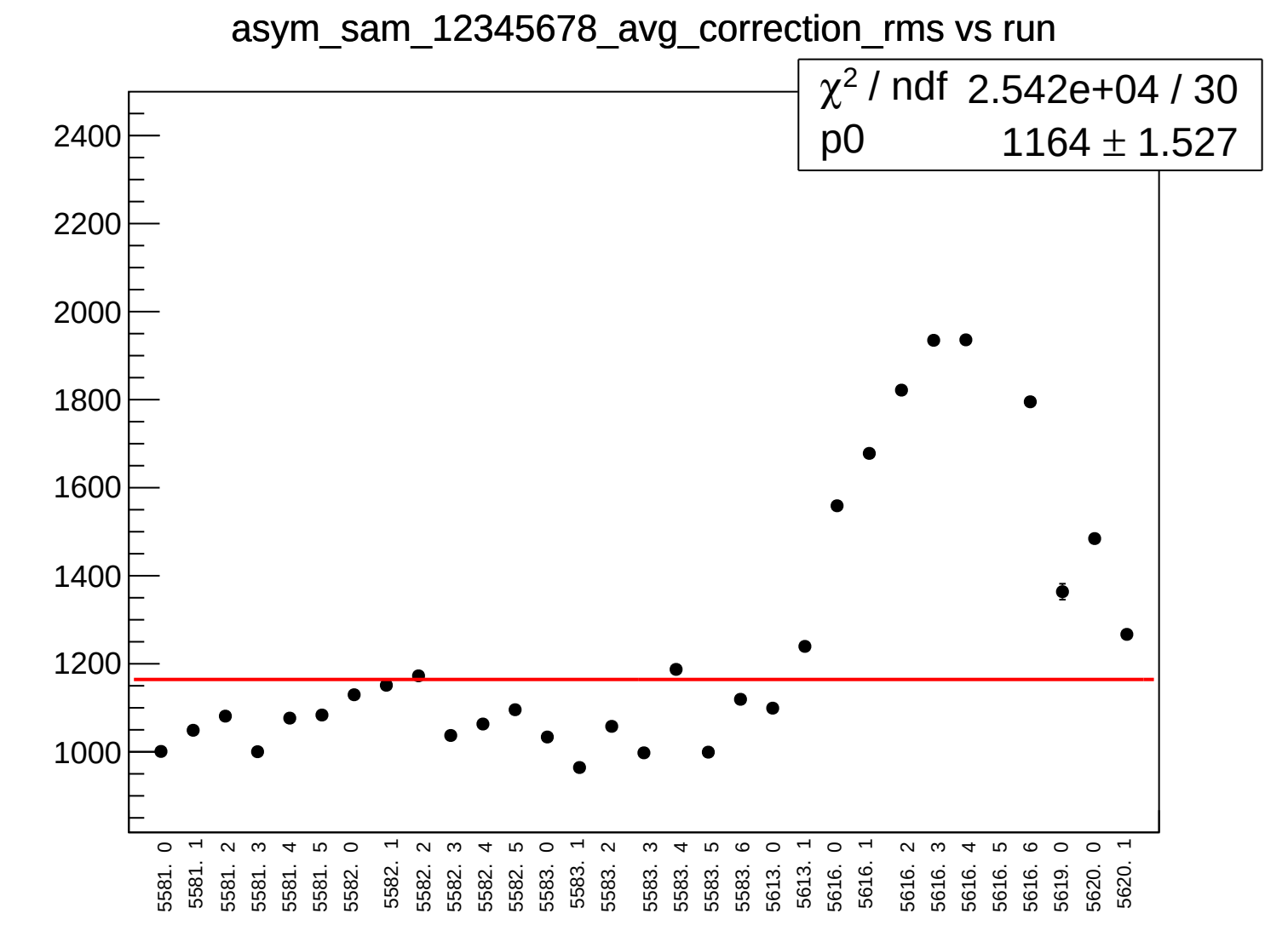

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.302e+04 / 30
p0 547.7 ± 0.7109
850
800
750
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

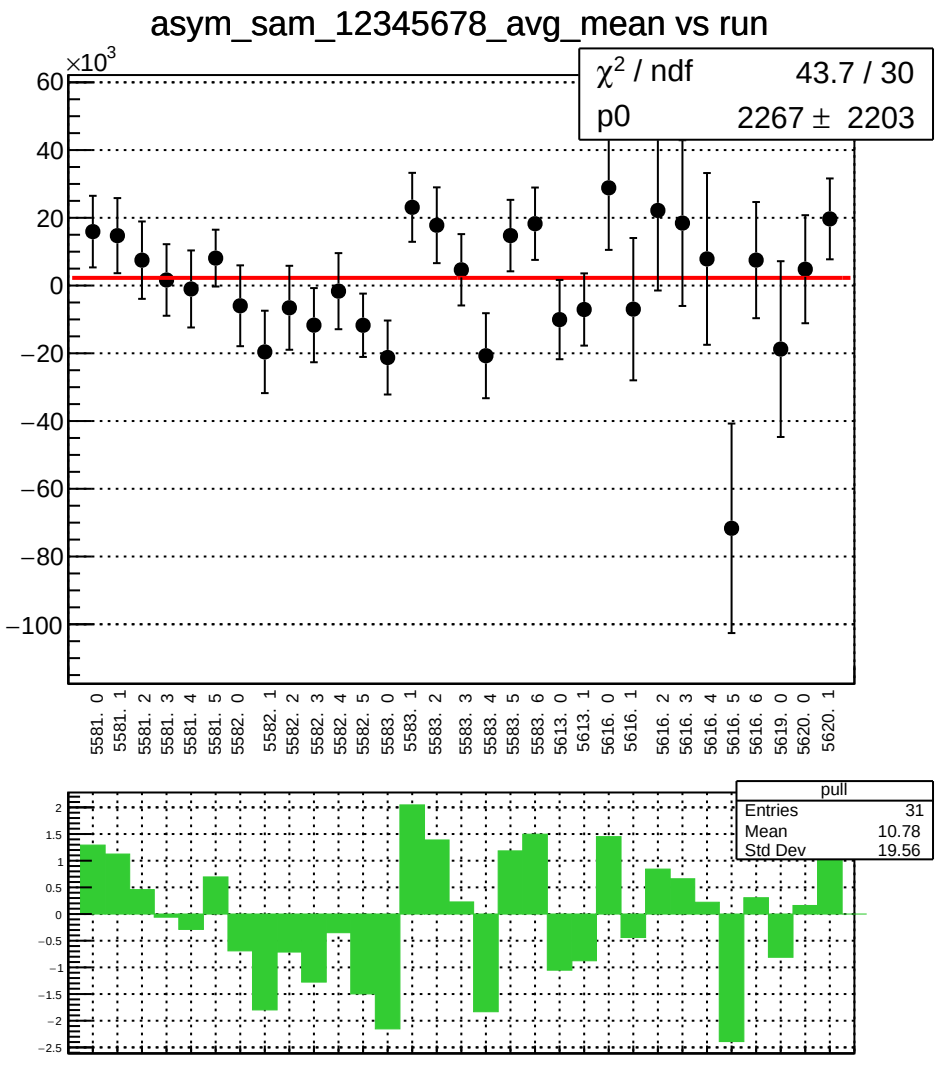

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 40.46 / 30
p0 −213.5 ± 158.2
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −10.67
Std Dev 12.48
2
1
0
−1
−2
−3

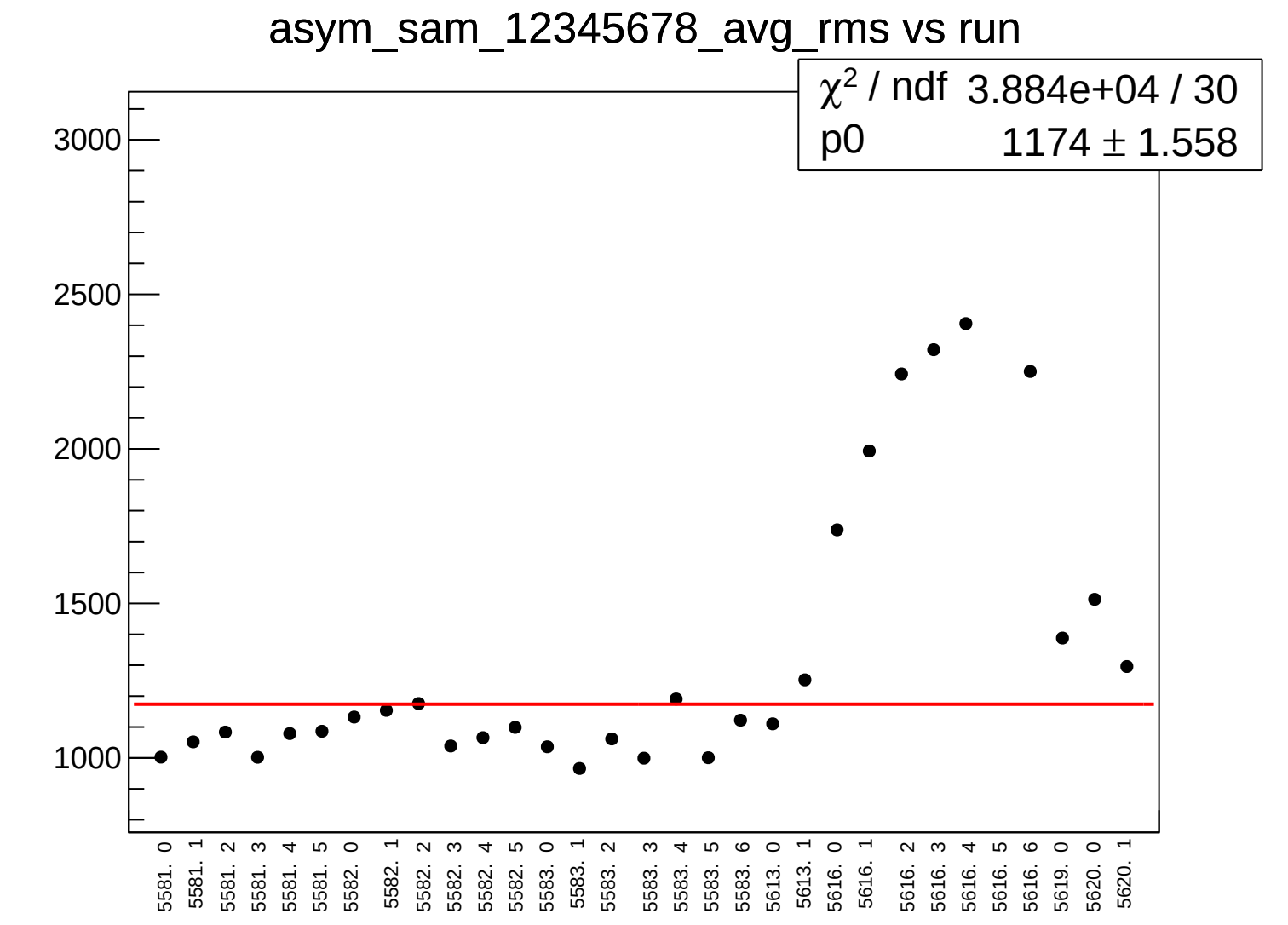

pull1D
Entries 31
Mean −0.04745
Std Dev 1.141
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

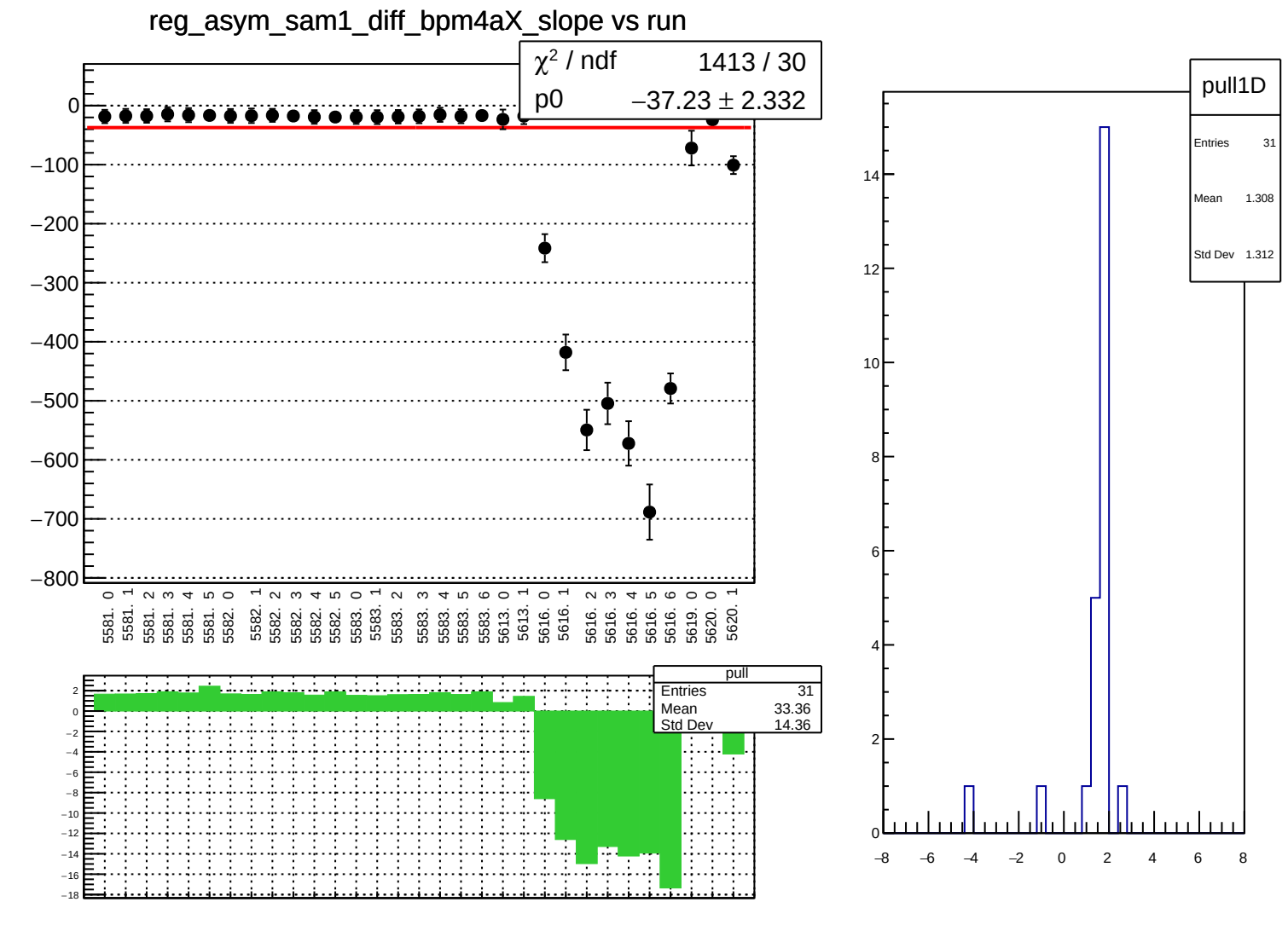

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.797e+05 / 30
p0 73.1 ± 0.1119
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

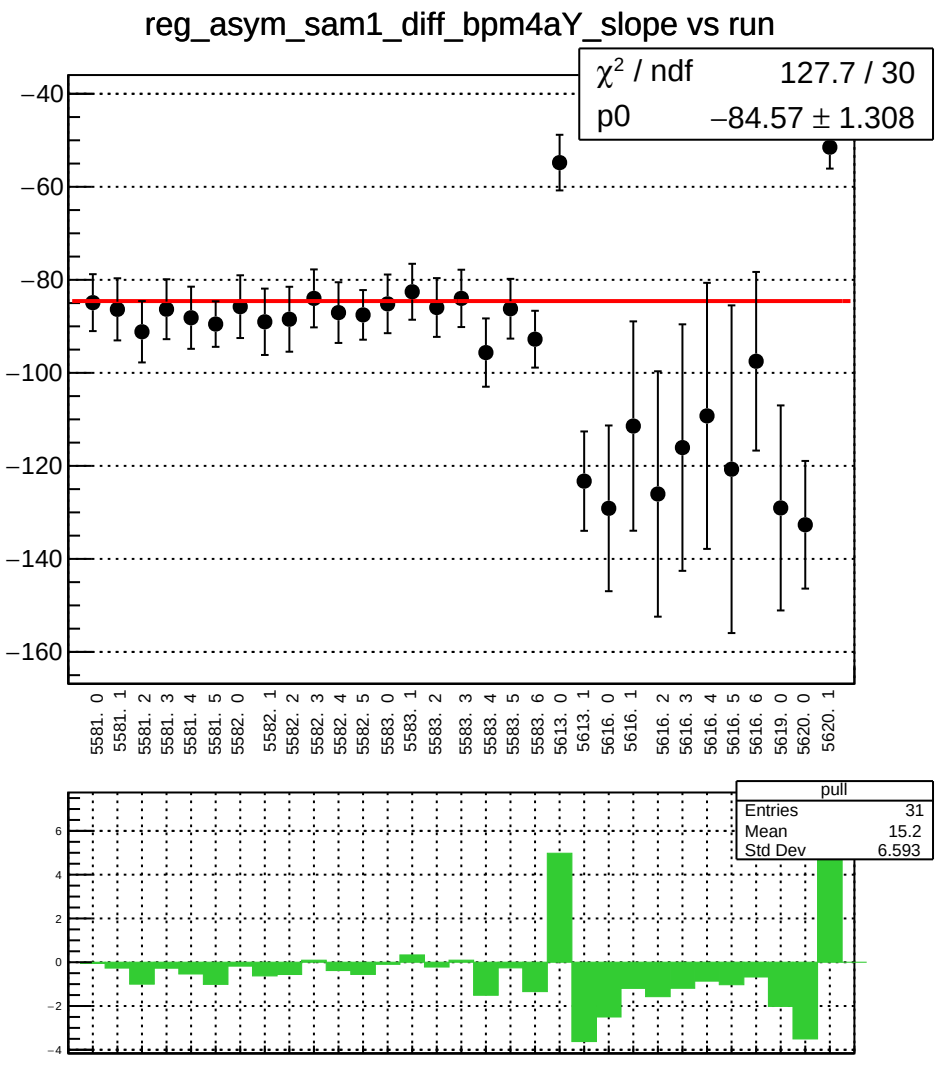

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 38.23 / 30
p0 −2618 ± 2160
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −56.31
Std Dev 87.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.008252
Std Dev 1.111
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

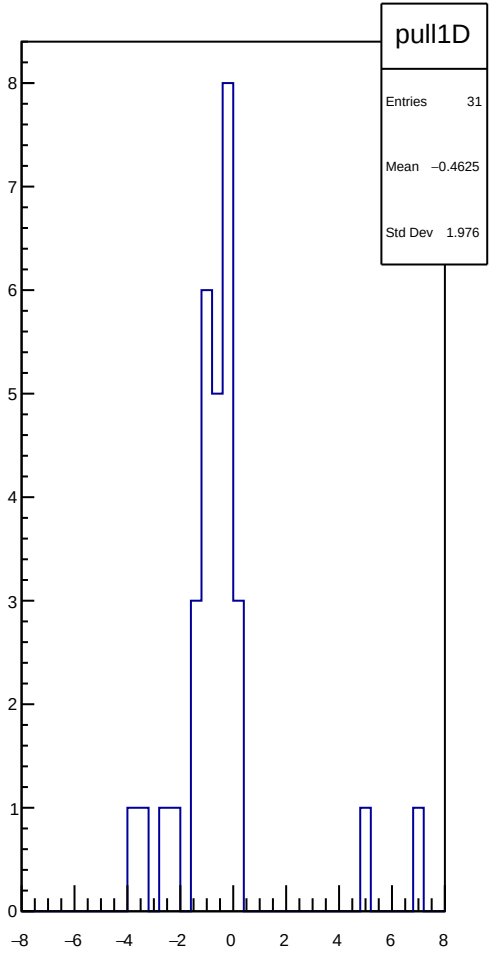

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 2.542e+04 / 30
p0 1164 ± 1.527
2400
2200
2000
1800
1600
1400
1200
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

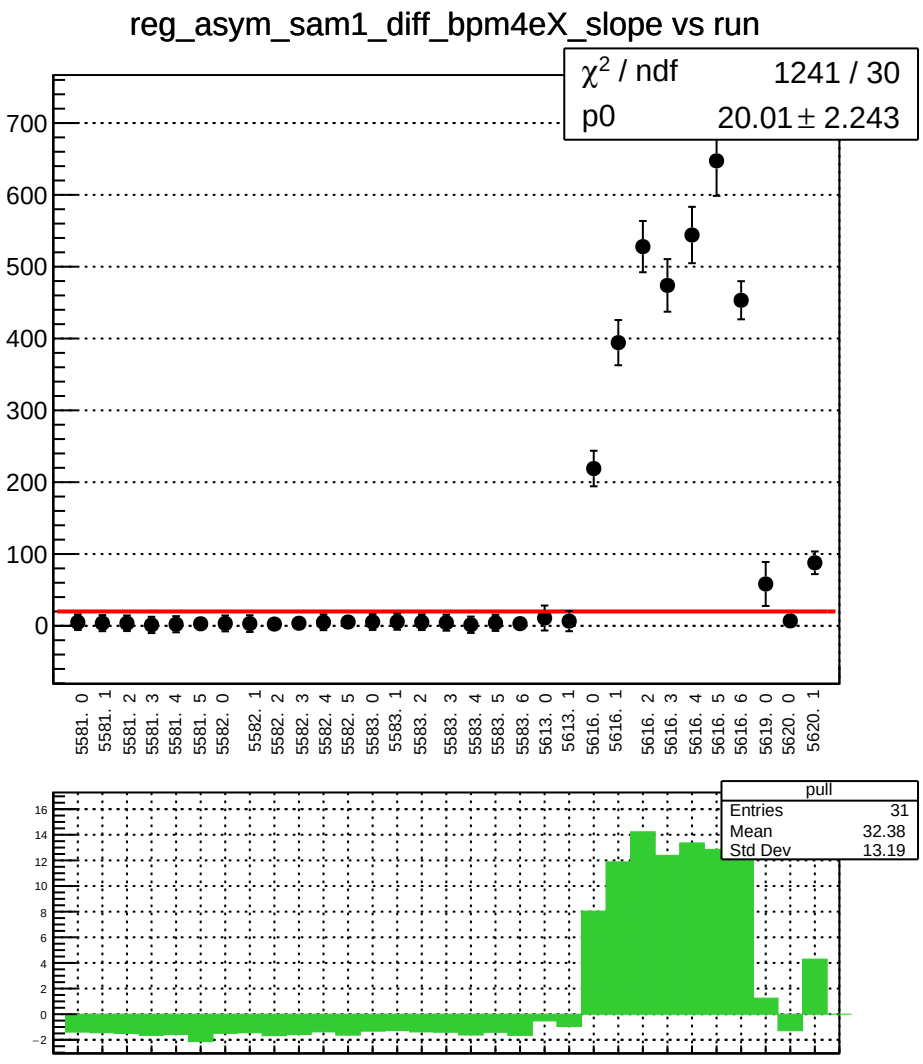

asym_sam_12345678_avg_mean vs run
χ² / ndf 43.7 / 30
p0 2267 ± 2203
×10³
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 10.78
Std Dev 19.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.03902
Std Dev 1.187
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

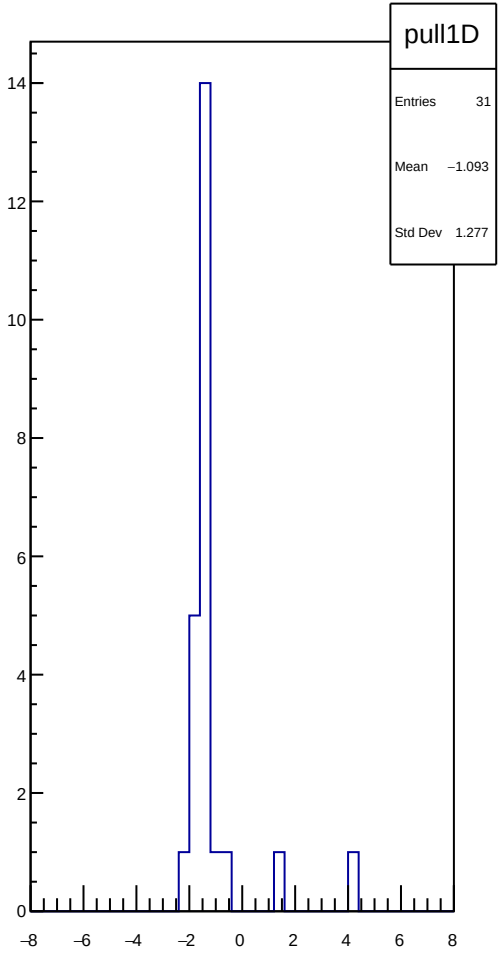

asym_sam_12345678_avg_rms vs run
χ² / ndf 3.884e+04 / 30
p0 1174 ± 1.558
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

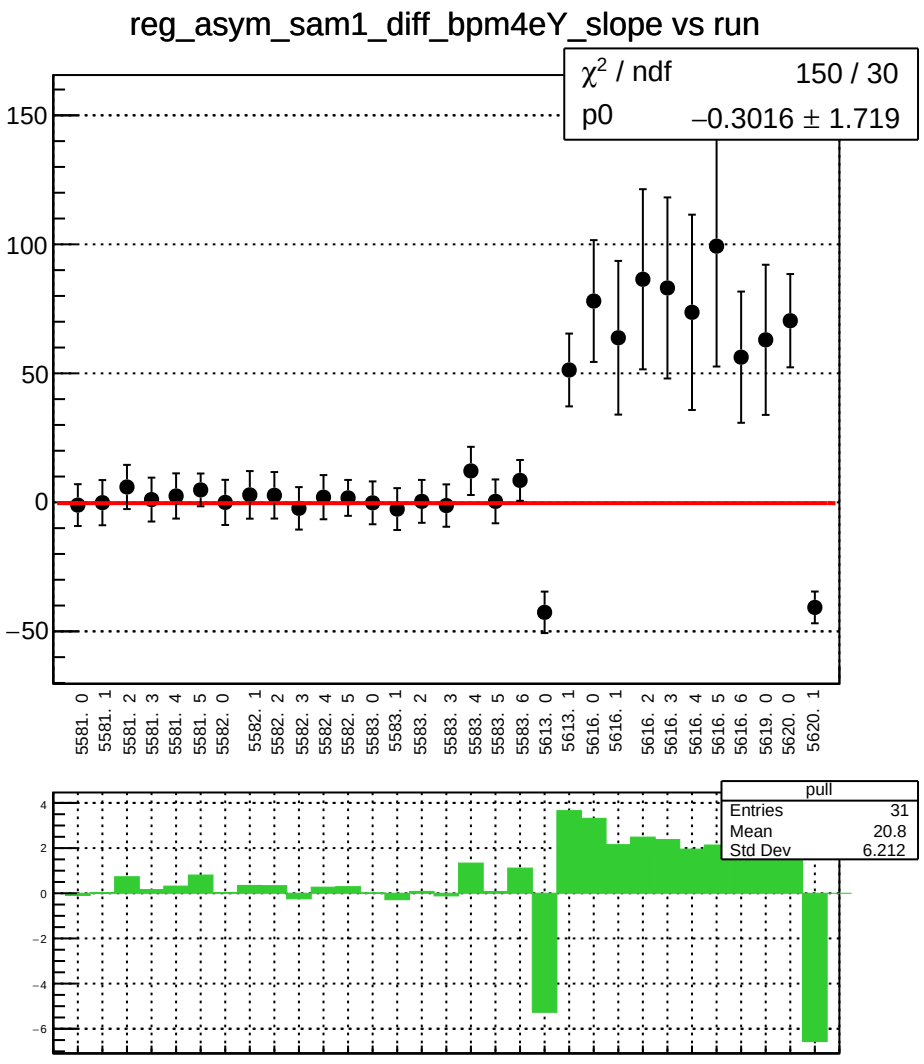

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 1413 / 30
p0 −37.23 ± 2.332
0
−100
−200
−300
−400
−500
−600
−700
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.36
Std Dev 14.36
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 31
Mean 1.308
Std Dev 1.312
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

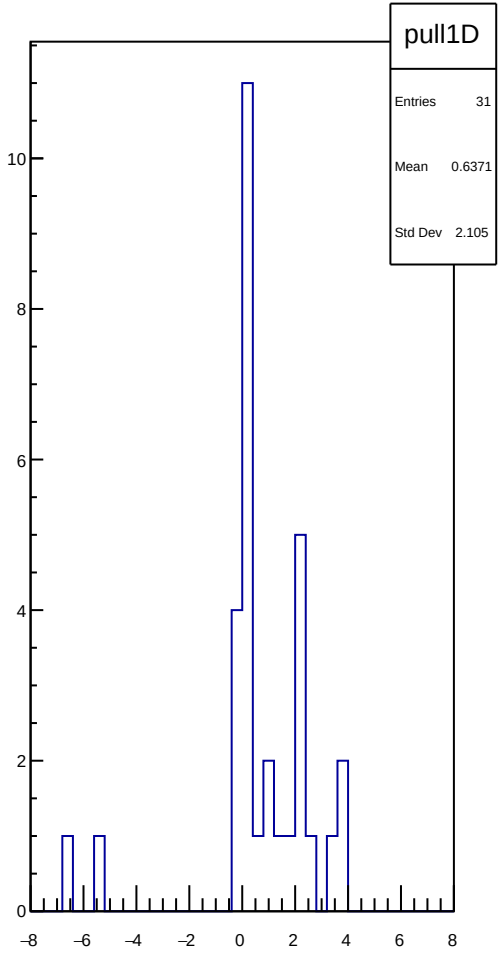

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 127.7 / 30
p0 −84.57 ± 1.308
−40
−60
−80
−100
−120
−140
−160
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.2
Std Dev 6.593
6
4
2
0
−2
−4

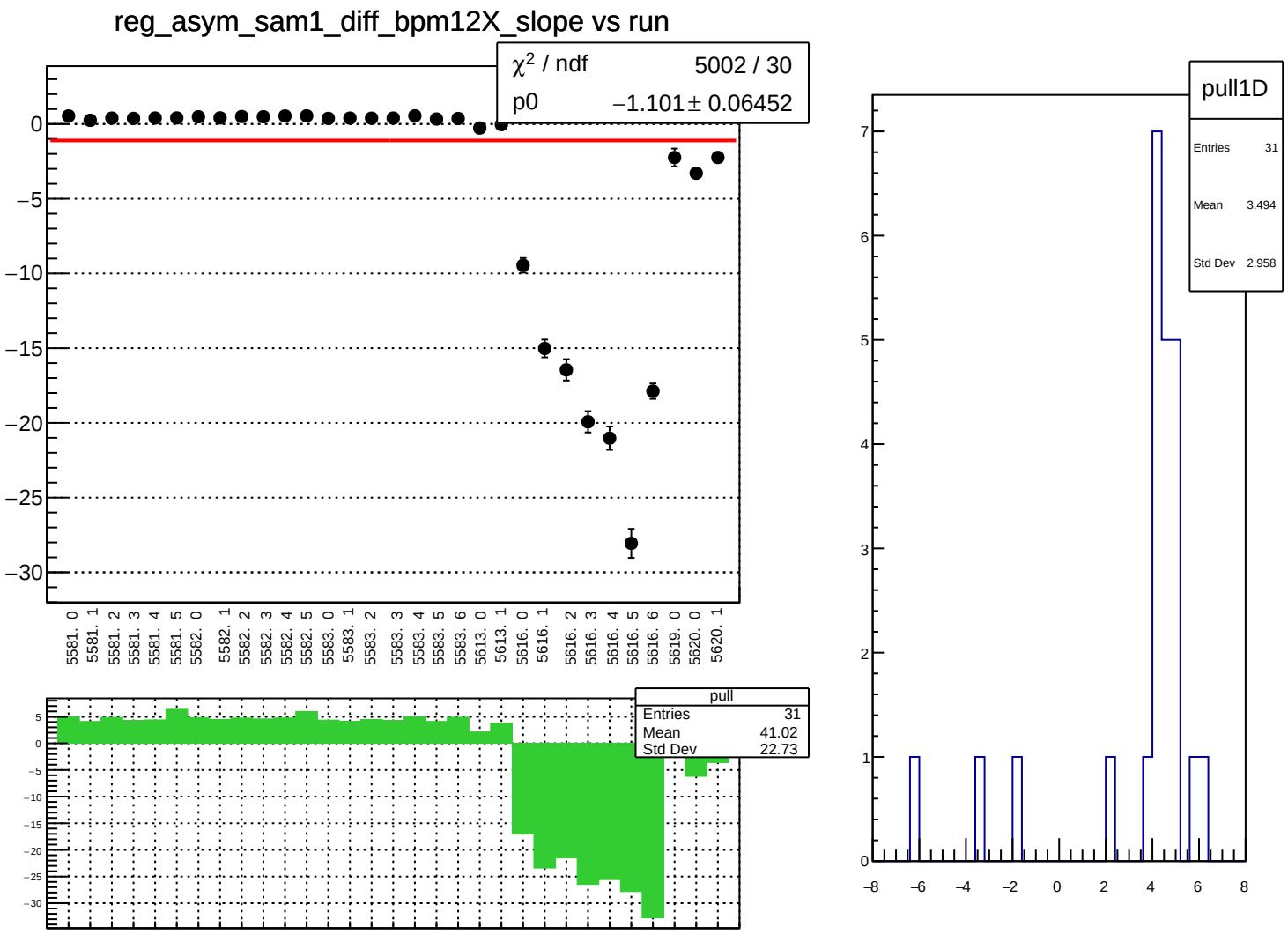

pull1D
Entries 31
Mean −0.4625
Std Dev 1.976
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

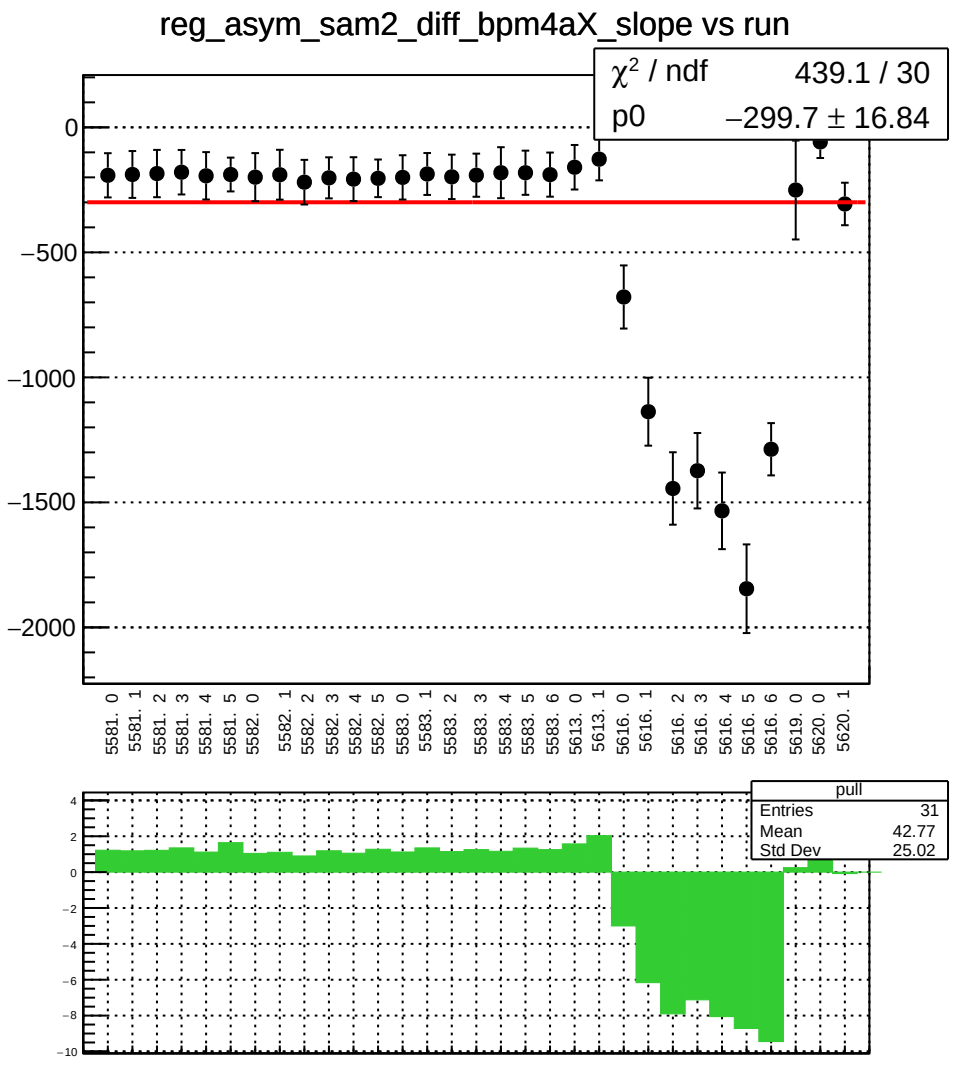

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1241 / 30
p0 20.01 ± 2.243
700
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 32.38
Std Dev 13.19
16
14
12
10
8
6
4
2
0
−2

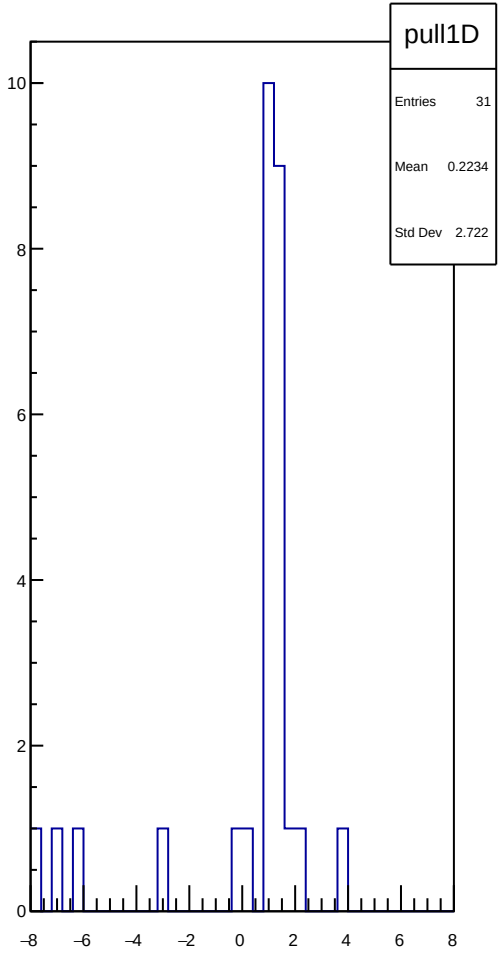

pull1D
Entries 31
Mean −1.093
Std Dev 1.277
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

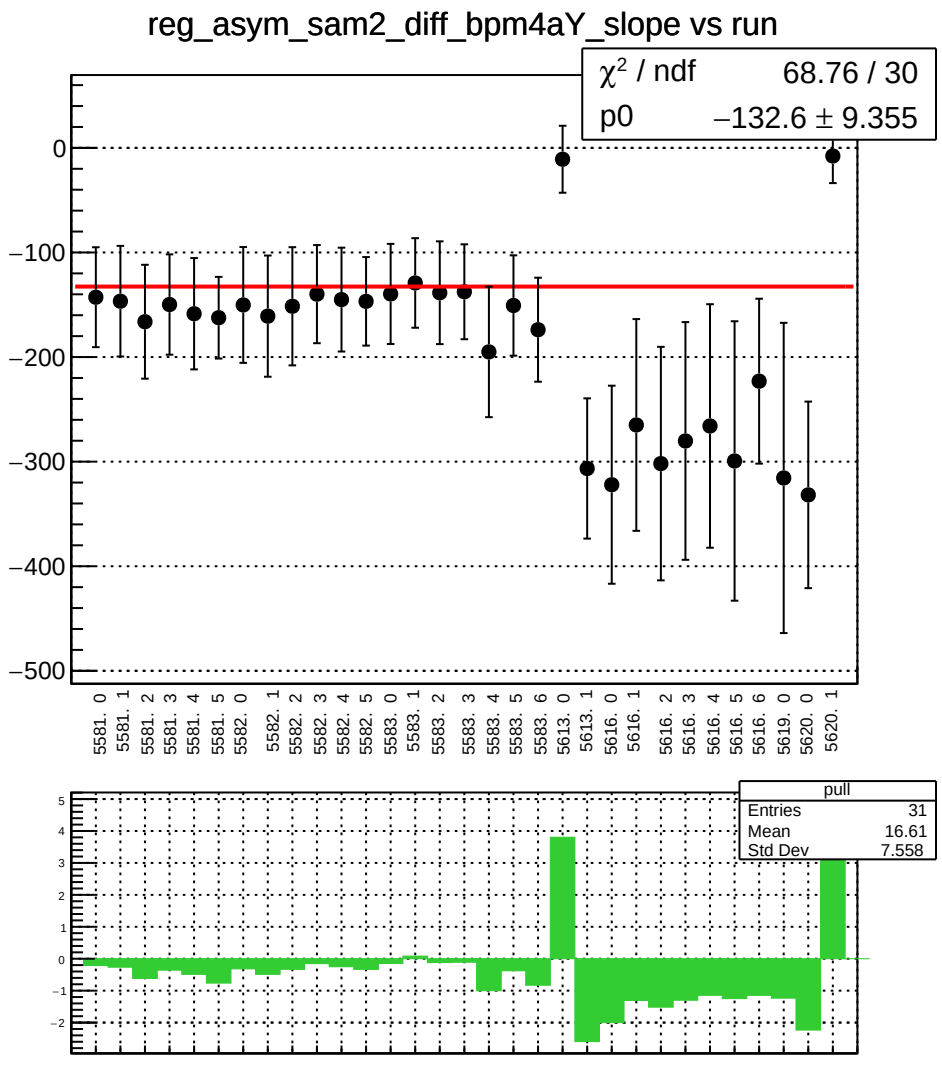

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 150 / 30
p0 −0.3016 ± 1.719
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.8
Std Dev 6.212
4
2
0
−2
−4
−6

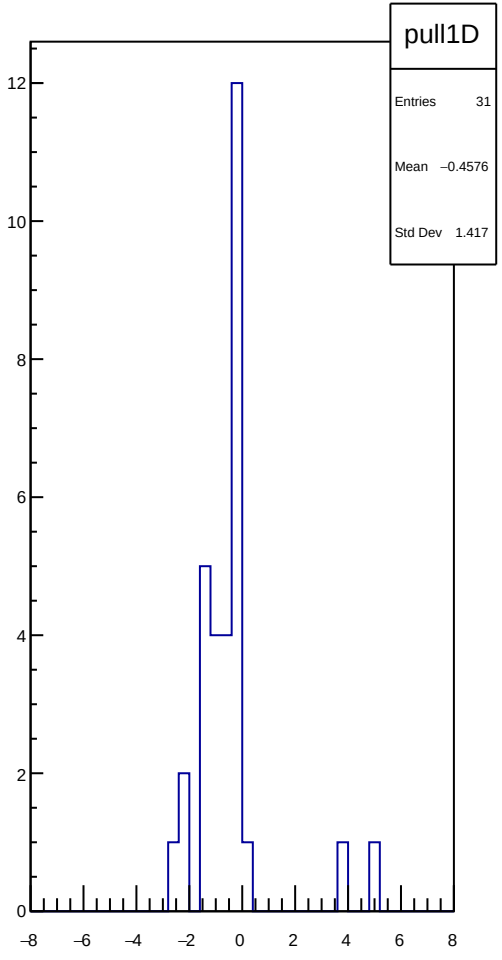

pull1D
Entries 31
Mean 0.6371
Std Dev 2.105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

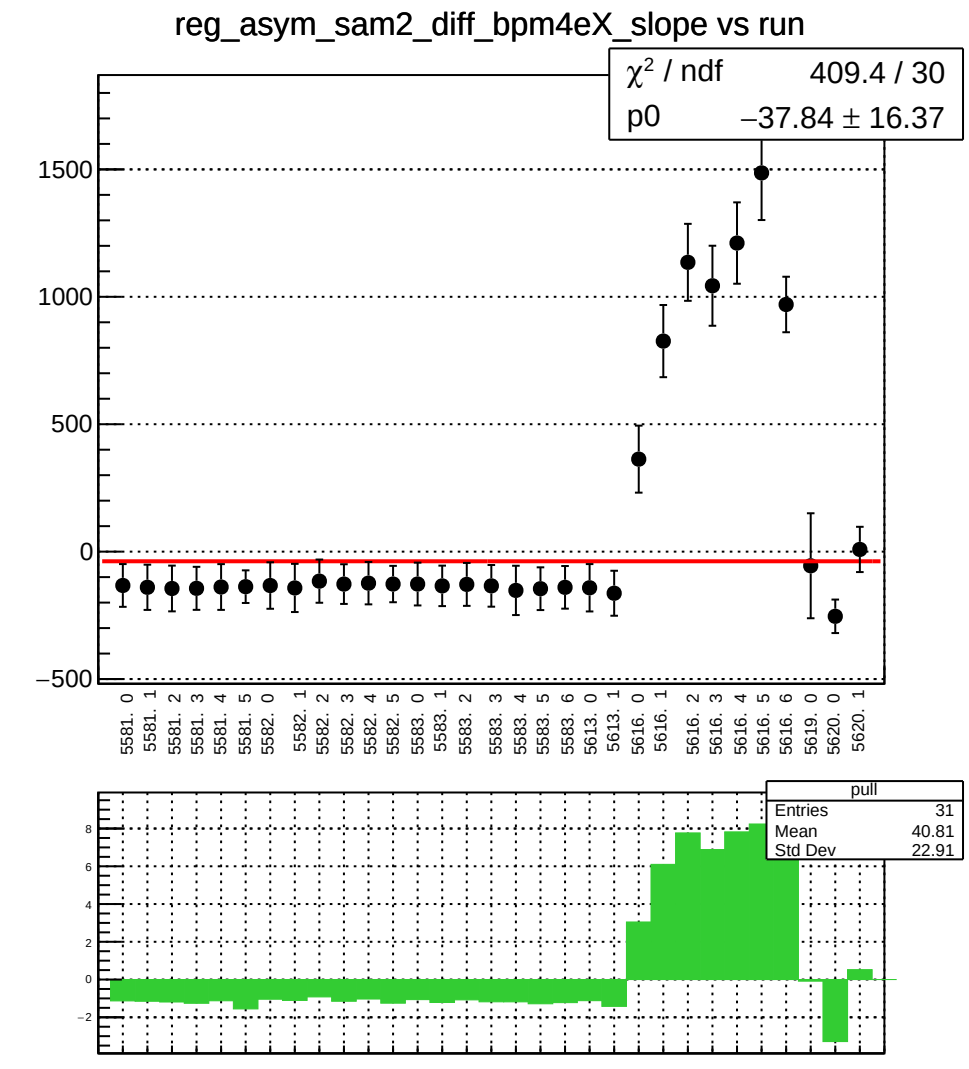

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 5002 / 30
p0 −1.101 ± 0.06452
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 41.02
Std Dev 22.73
5
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 31
Mean 3.494
Std Dev 2.958
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

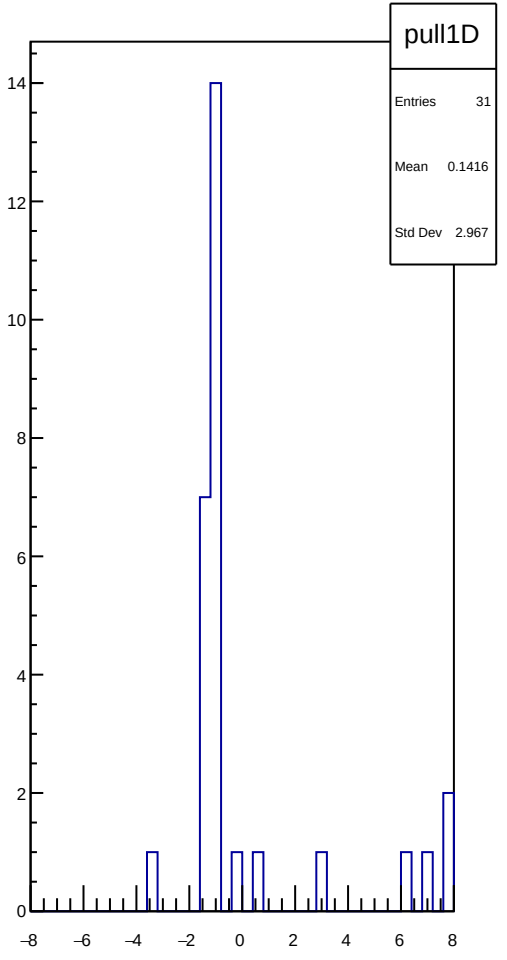

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 439.1 / 30
p0 −299.7 ± 16.84
0
−500
−1000
−1500
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.77
Std Dev 25.02
4
2
0
−2
−4
−6
−8
−10

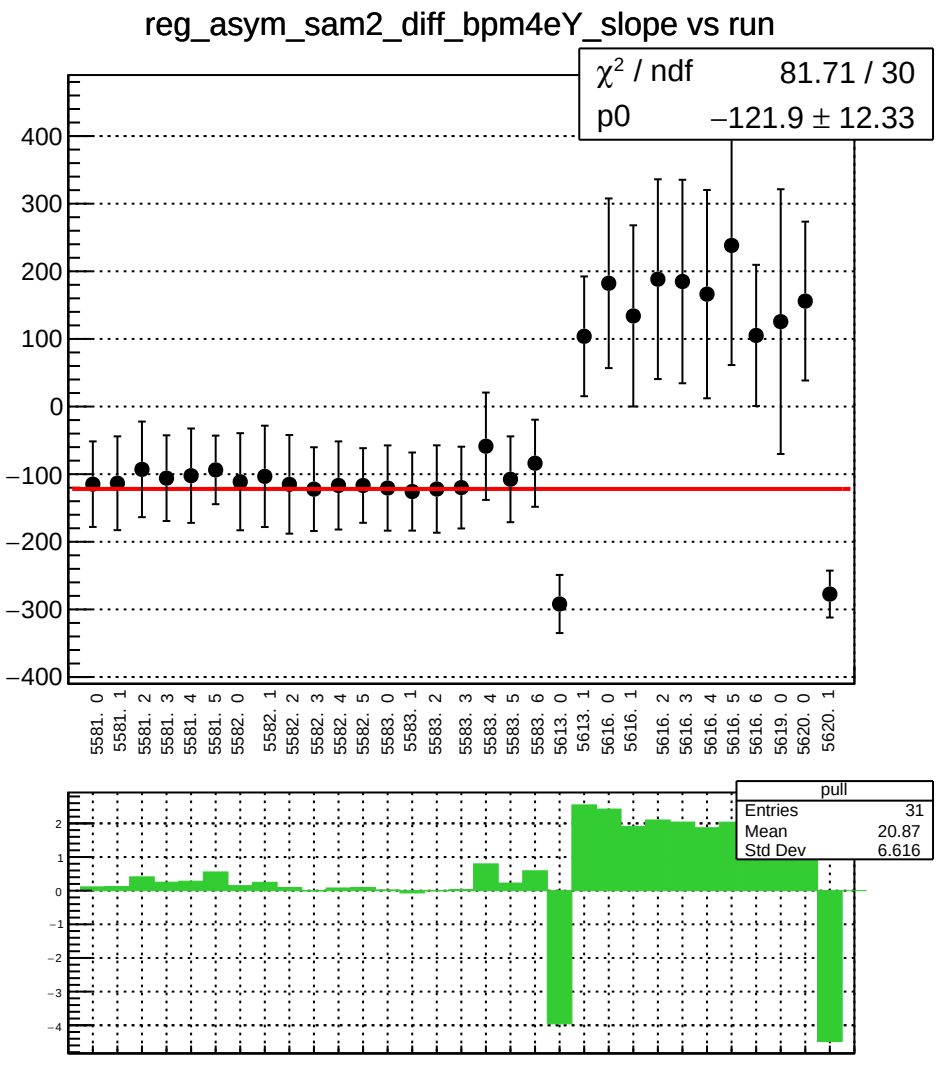

pull1D
Entries 31
Mean 0.2234
Std Dev 2.722
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

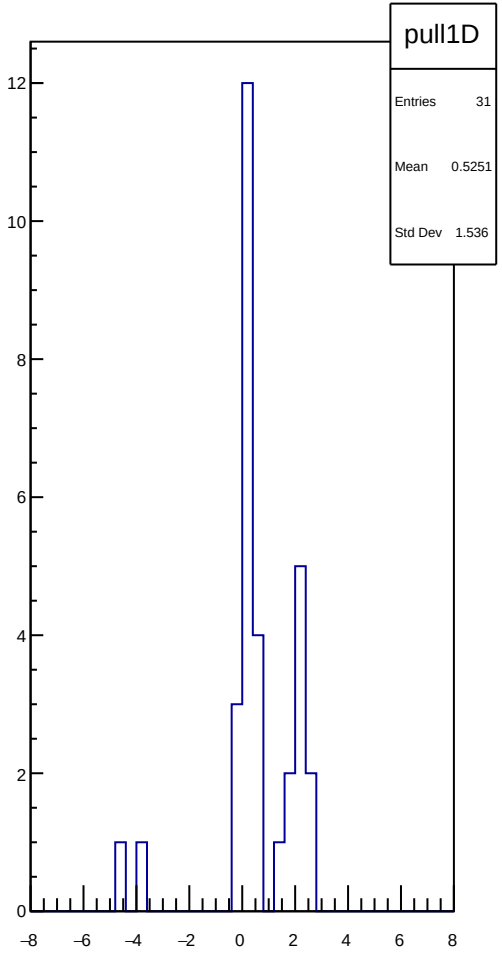

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 68.76 / 30
p0 −132.6 ± 9.355
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.61
Std Dev 7.558
5
4
3
2
1
0
−1
−2

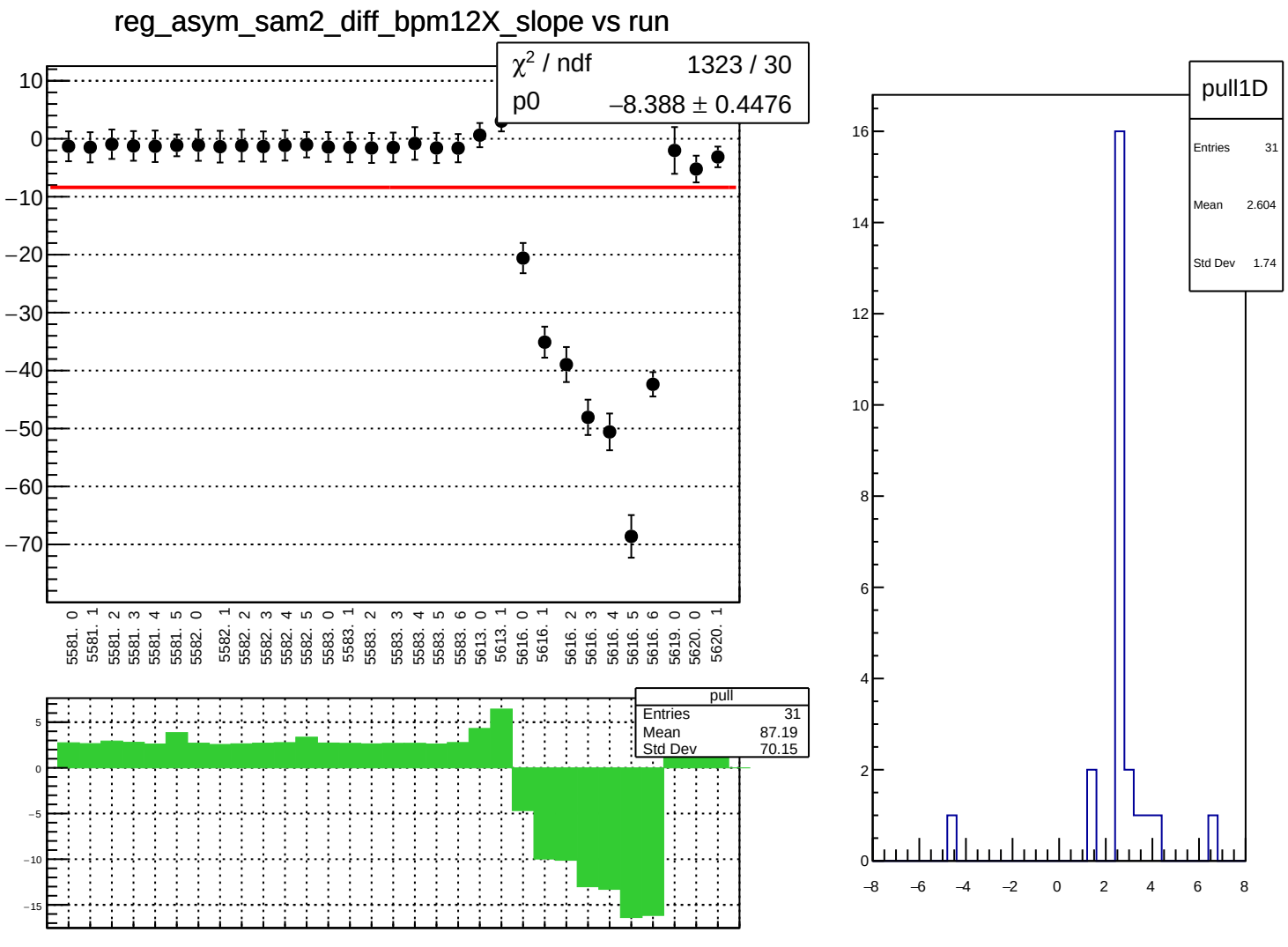

pull1D
Entries 31
Mean −0.4576
Std Dev 1.417
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

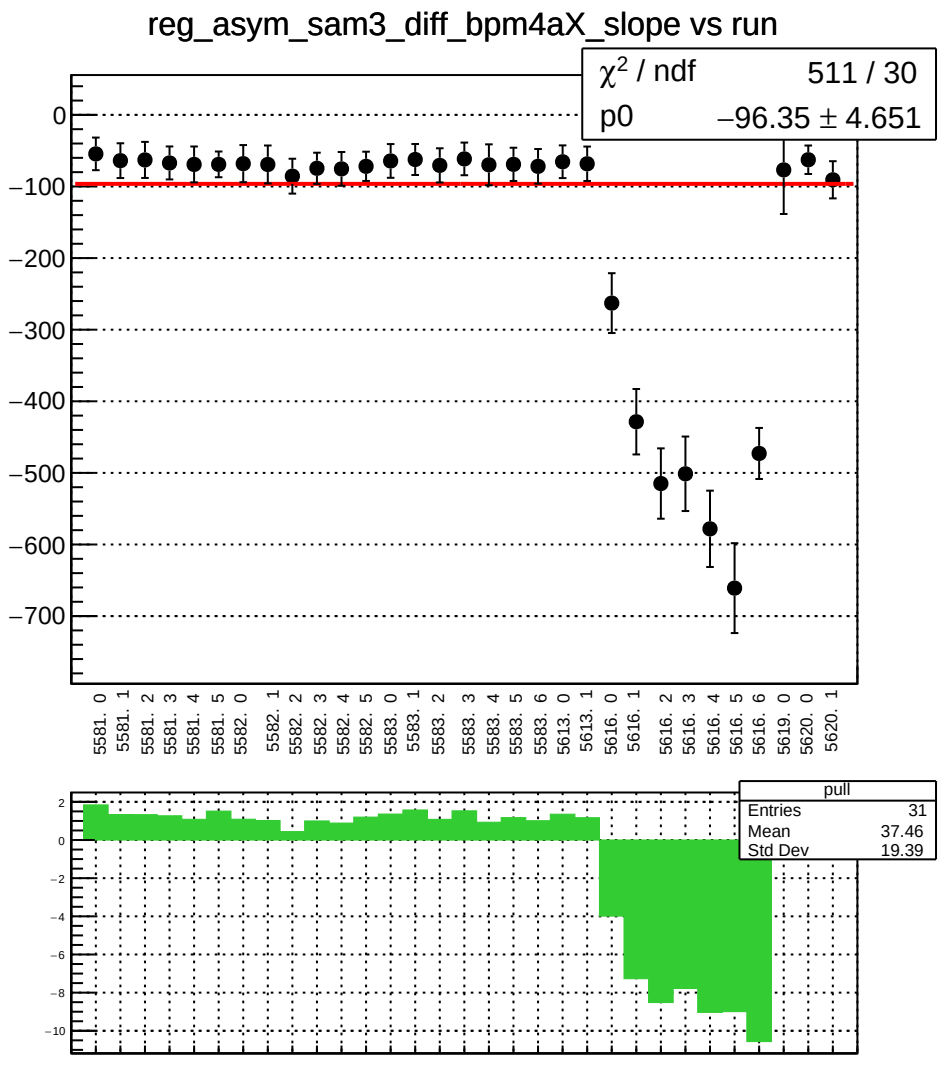

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 409.4 / 30
p0 −37.84 ± 16.37
1500
1000
500
0
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.81
Std Dev 22.91
8
6
4
2
0
−2

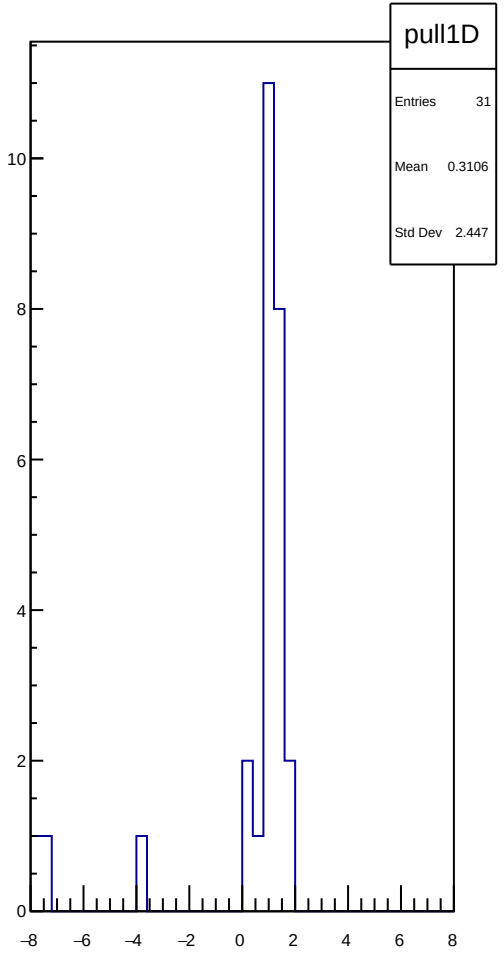

pull1D
Entries 31
Mean 0.1416
Std Dev 2.967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

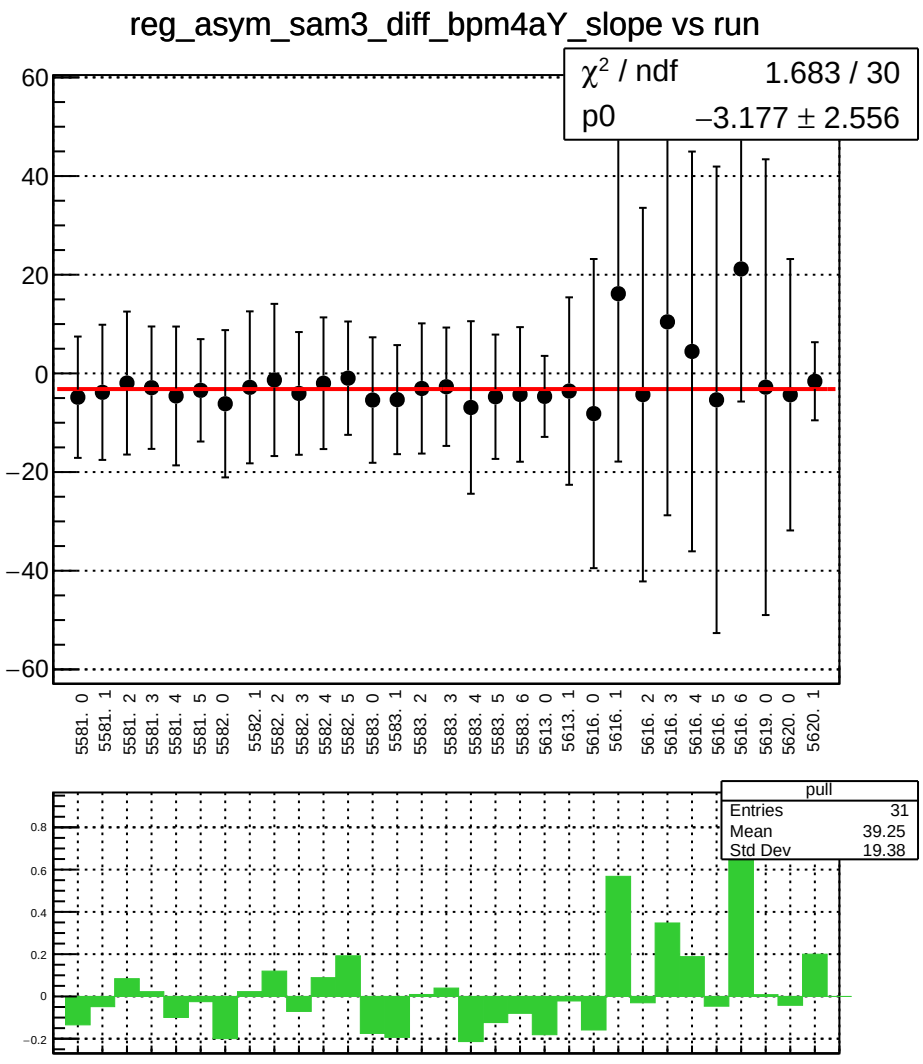

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 81.71 / 30
p0 −121.9 ± 12.33
400
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.87
Std Dev 6.616
2
1
0
−1
−2
−3
−4

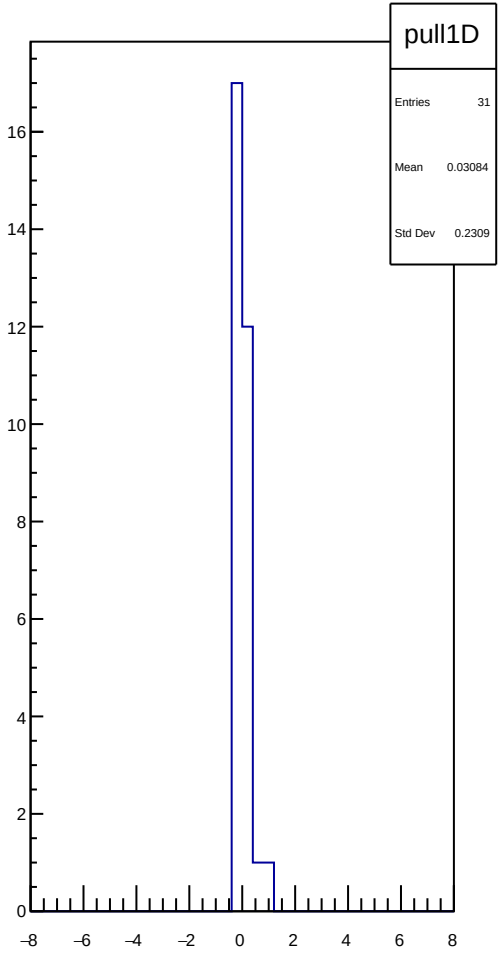

pull1D
Entries 31
Mean 0.5251
Std Dev 1.536
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

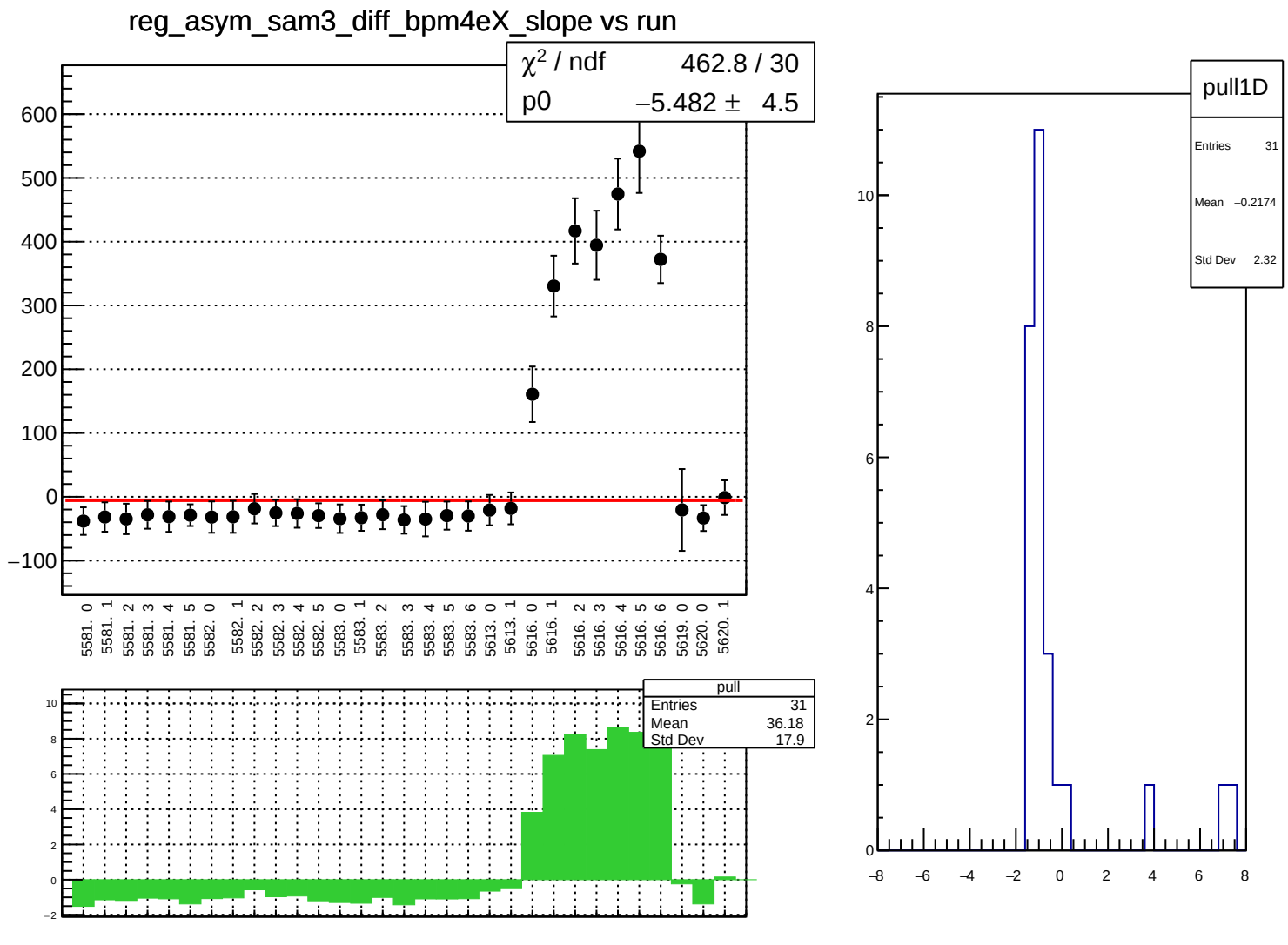

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1323 / 30
p0 −8.388 ± 0.4476
10
0
−10
−20
−30
−40
−50
−60
−70
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 87.19
Std Dev 70.15
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.604
Std Dev 1.74
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

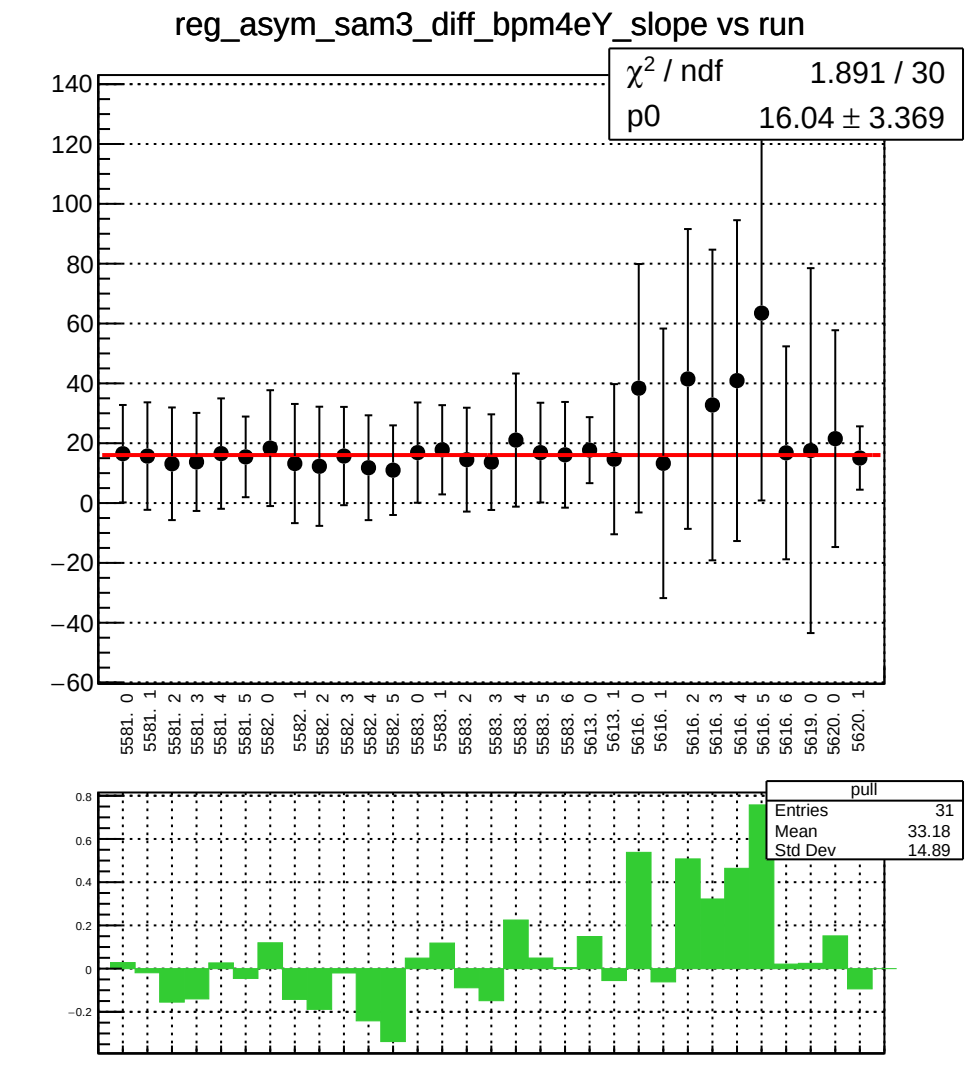

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 511 / 30
p0 −96.35 ± 4.651
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.46
Std Dev 19.39
2
0
−2
−4
−6
−8
−10

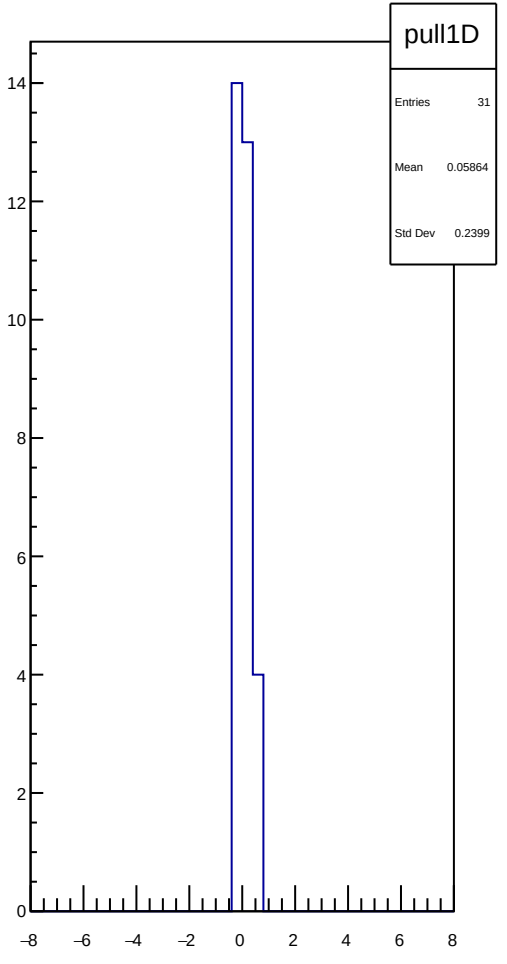

pull1D
Entries 31
Mean 0.3106
Std Dev 2.447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

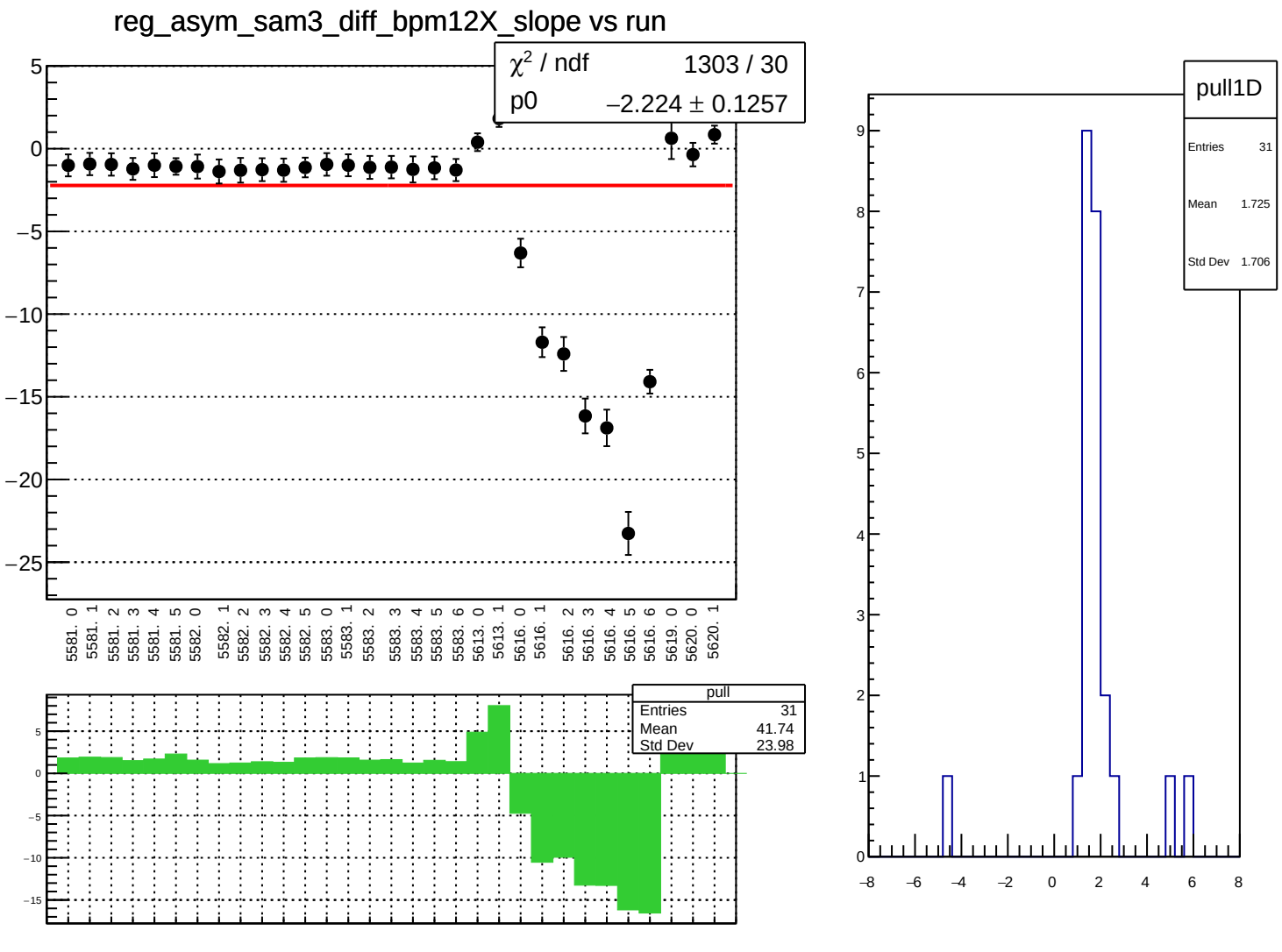

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.683 / 30
p0 −3.177 ± 2.556
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 39.25
Std Dev 19.38
0.8
0.6
0.4
0.2
0
−0.2

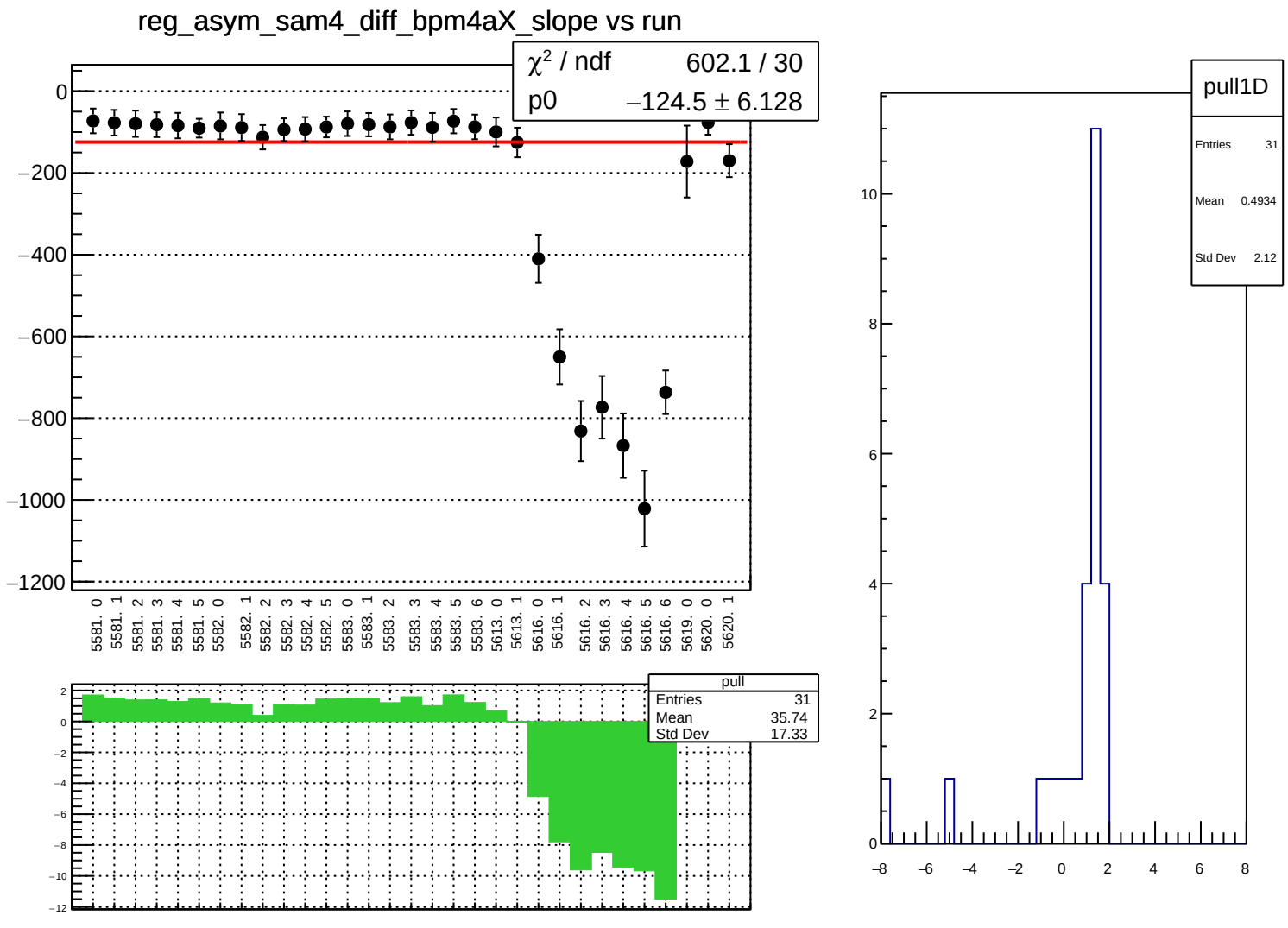

pull1D
Entries 31
Mean 0.03084
Std Dev 0.2309
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

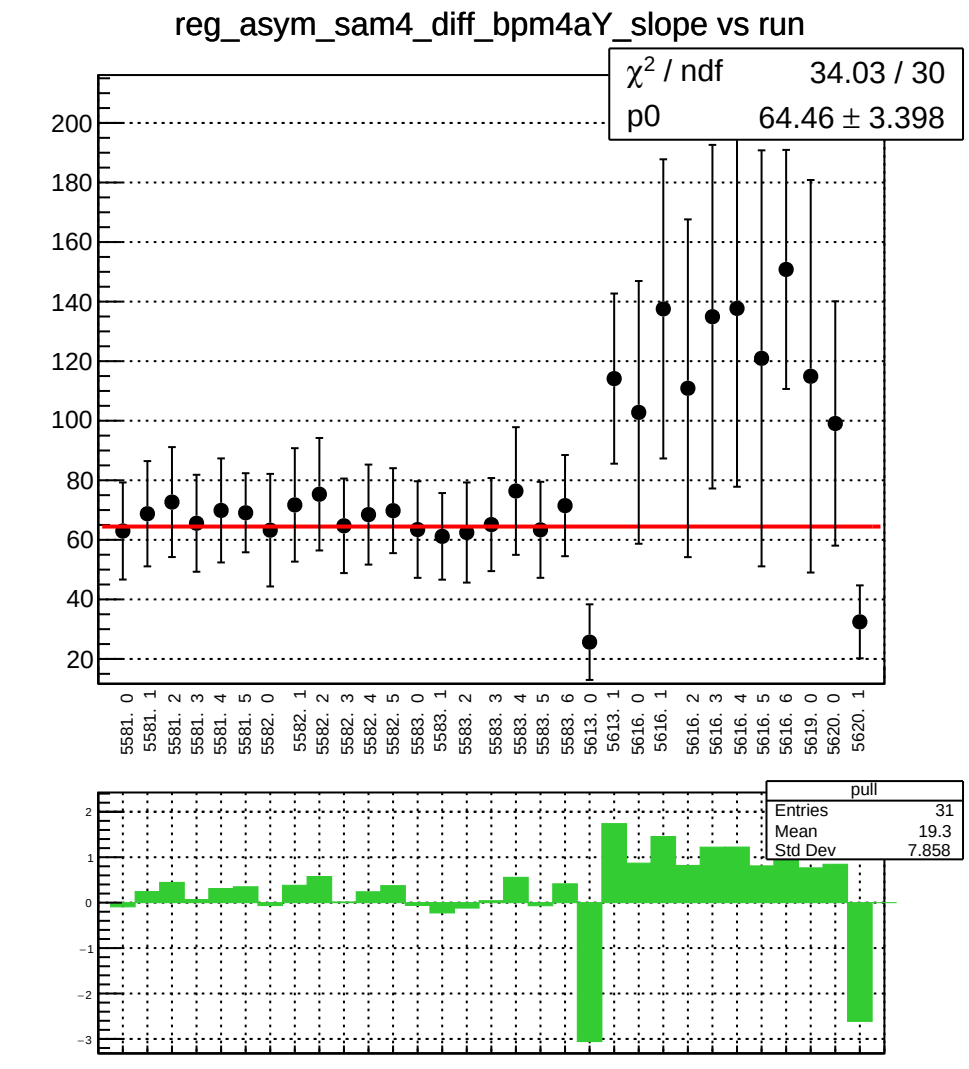

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 462.8 / 30
p0 −5.482 ± 4.5
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 36.18
Std Dev 17.9
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.2174
Std Dev 2.32
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

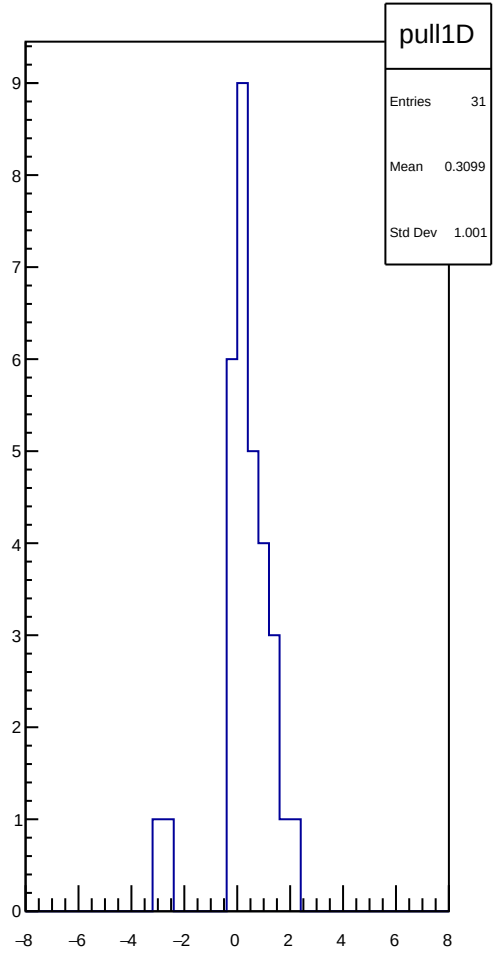

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.891 / 30
p0 16.04 ± 3.369
140
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.18
Std Dev 14.89
0.8
0.6
0.4
0.2
0
−0.2

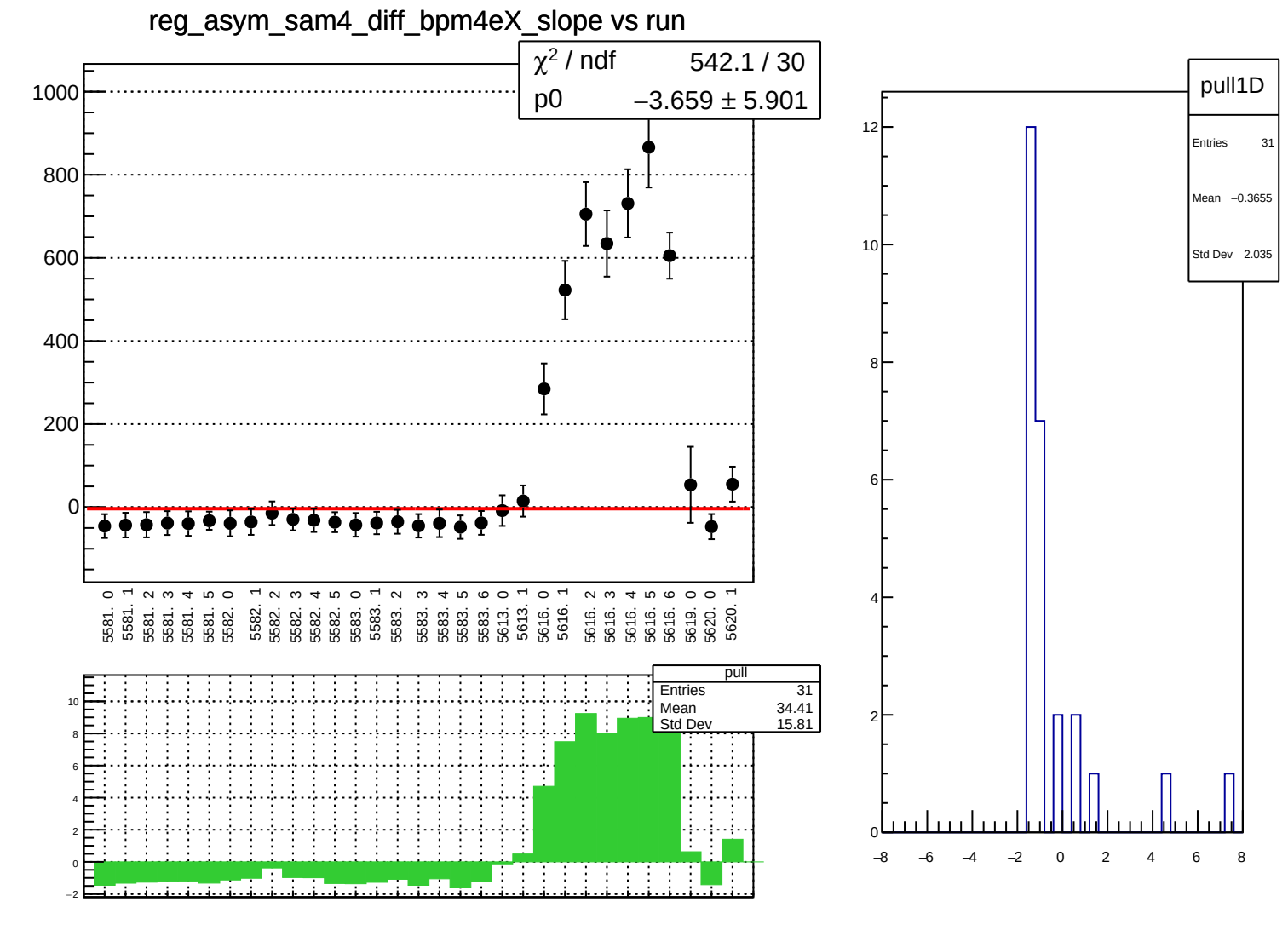

pull1D
Entries 31
Mean 0.05864
Std Dev 0.2399
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

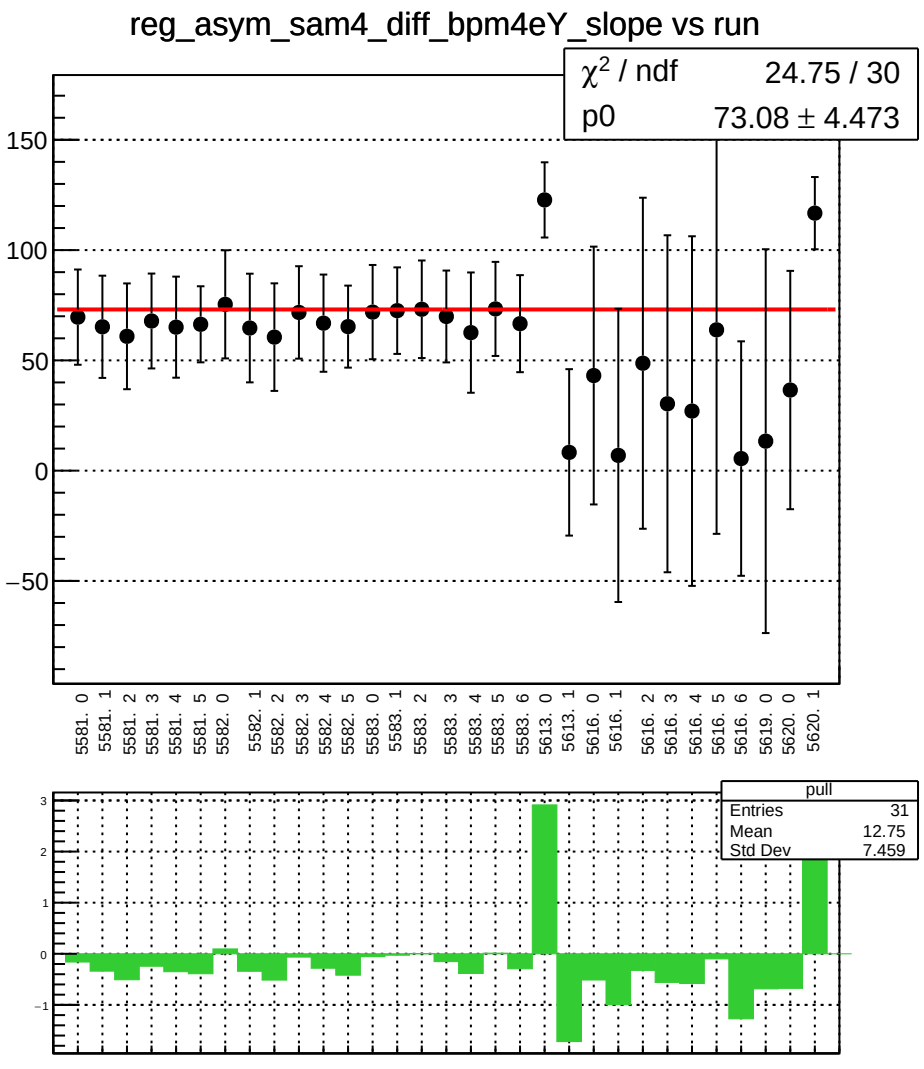

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1303 / 30
p0 −2.224 ± 0.1257
5
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 41.74
Std Dev 23.98
5
0
−5
−10
−15
pull1D
Entries 31
Mean 1.725
Std Dev 1.706
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

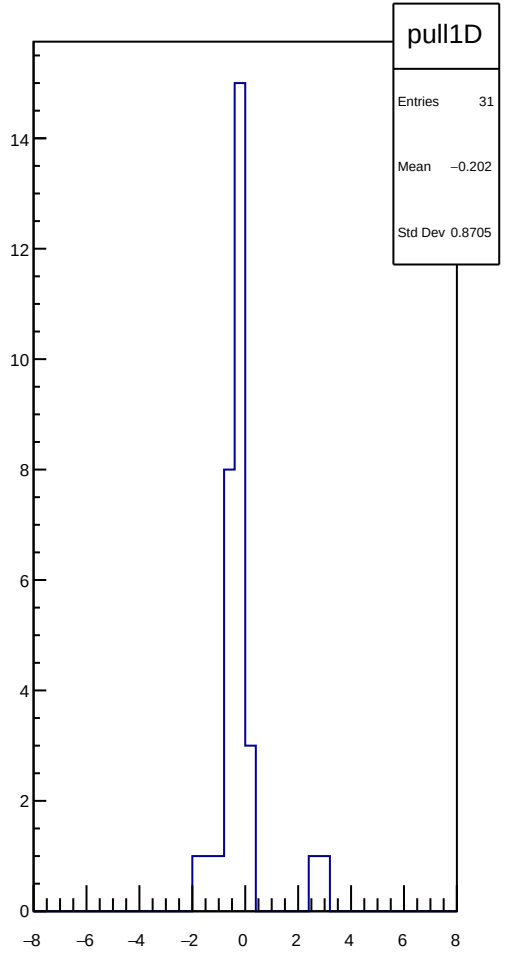

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 602.1 / 30
p0 −124.5 ± 6.128
0
−200
−400
−600
−800
−1000
−1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.74
Std Dev 17.33
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 31
Mean 0.4934
Std Dev 2.12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

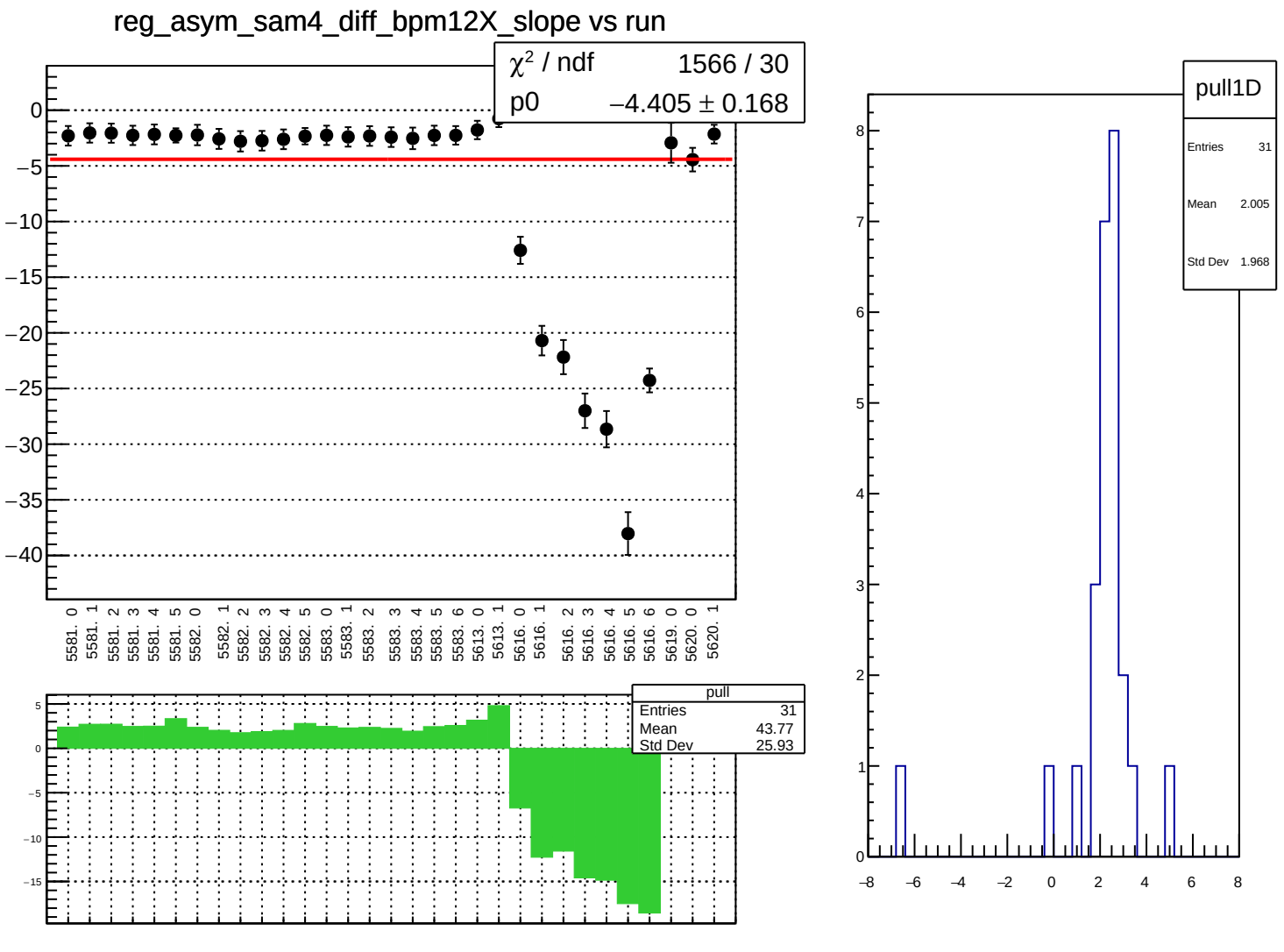

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 34.03 / 30
p0 64.46 ± 3.398
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.3
Std Dev 7.858
2
1
0
−1
−2
−3

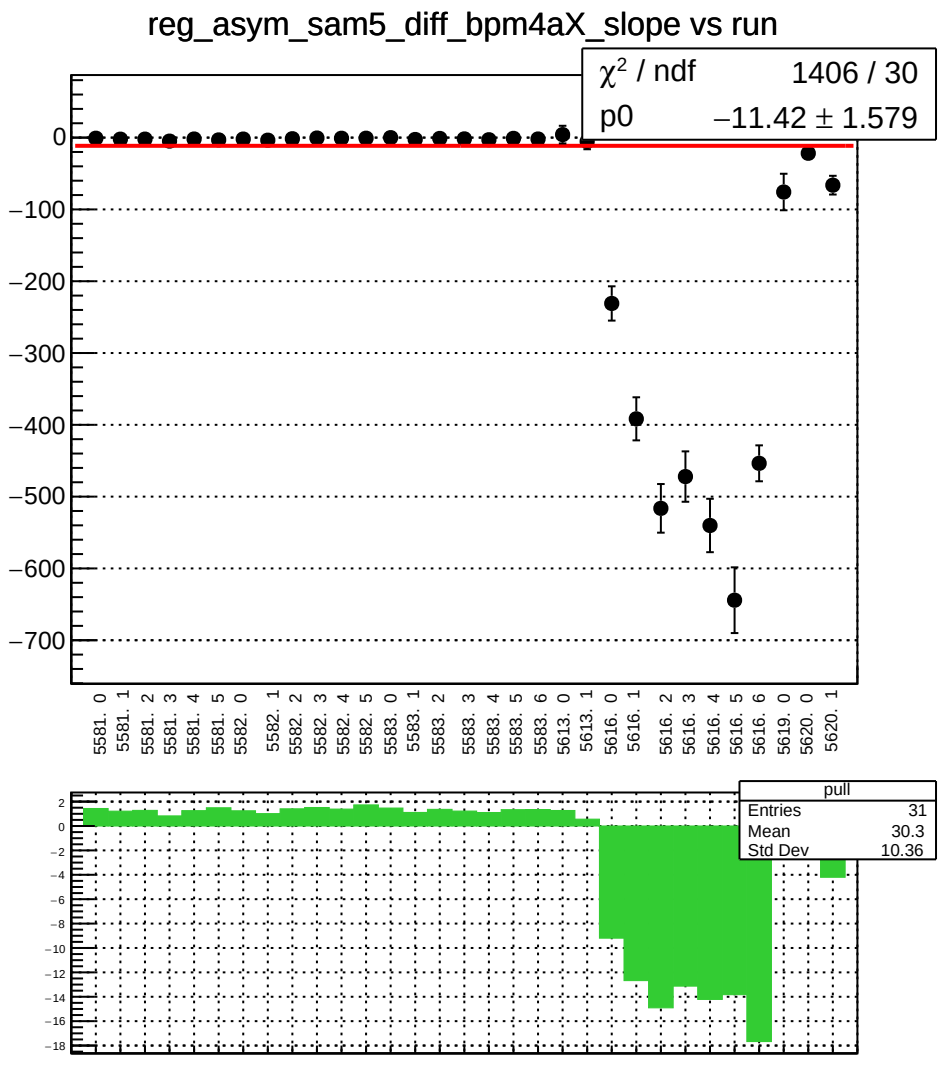

pull1D
Entries 31
Mean 0.3099
Std Dev 1.001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

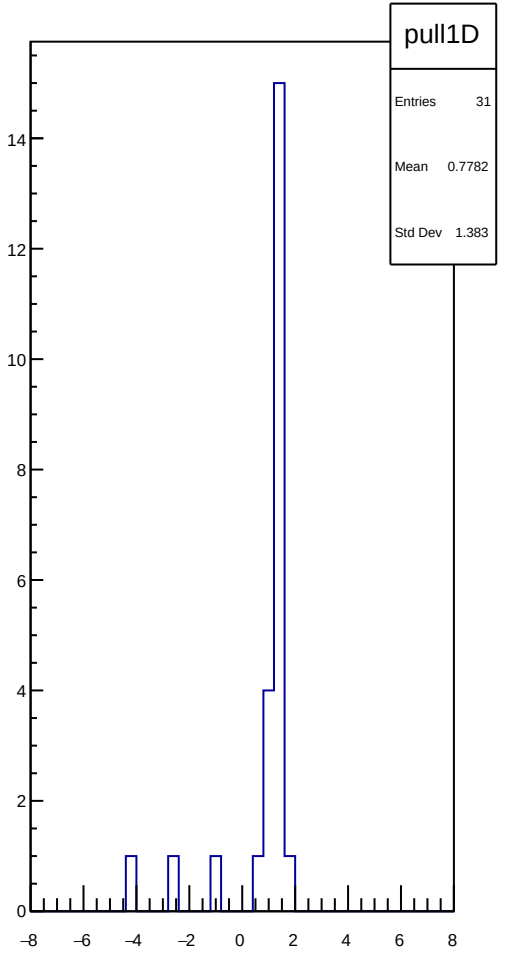

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 542.1 / 30
p0 −3.659 ± 5.901
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.41
Std Dev 15.81
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.3655
Std Dev 2.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

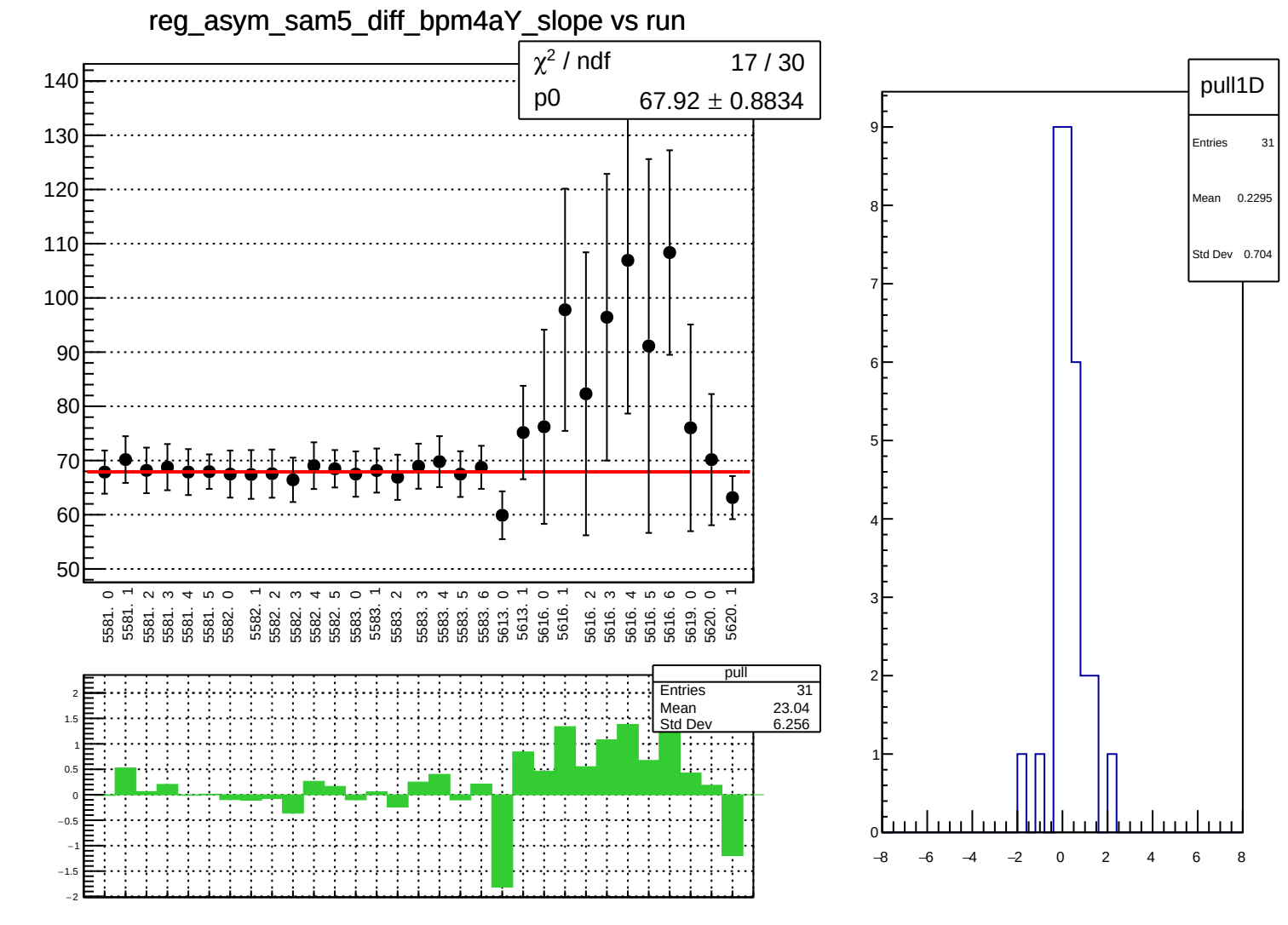

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 24.75 / 30
p0 73.08 ± 4.473
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 12.75
Std Dev 7.459
3
2
1
0
−1

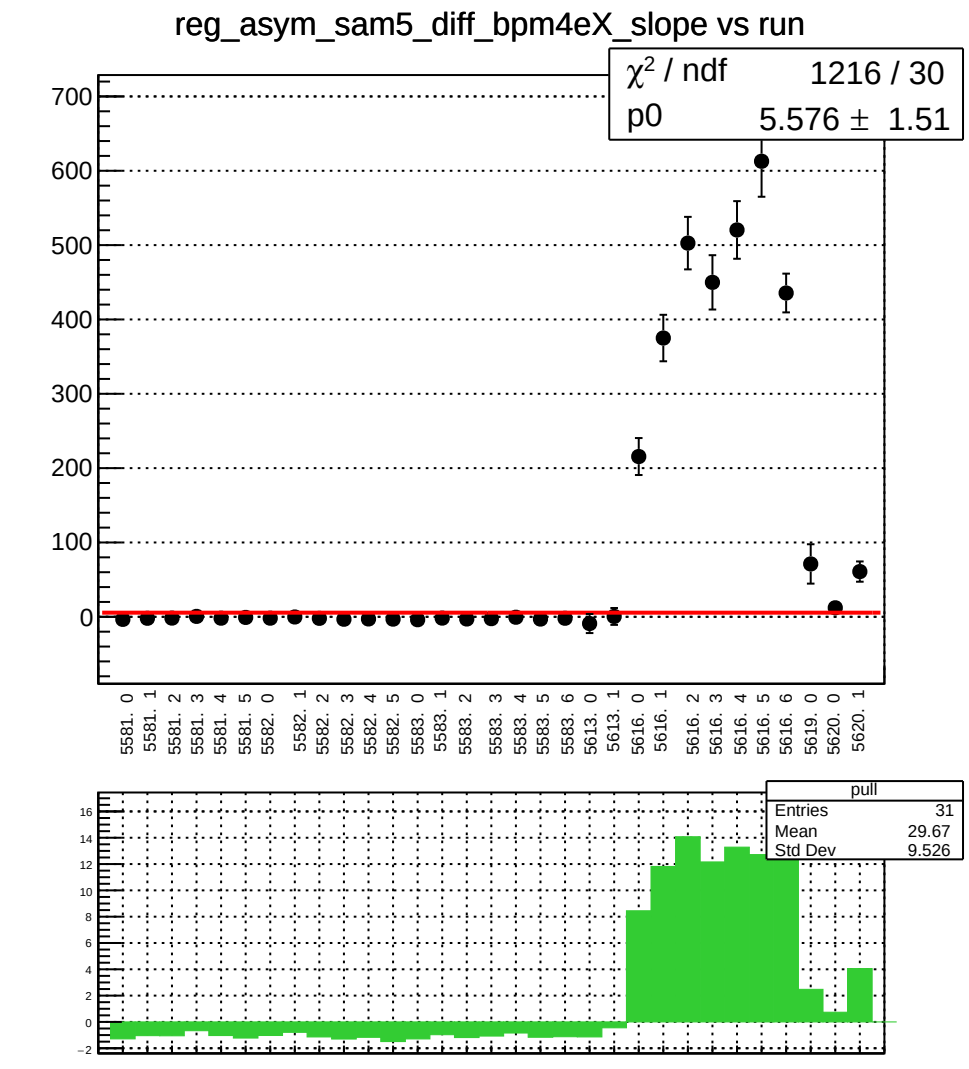

pull1D
Entries 31
Mean −0.202
Std Dev 0.8705
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

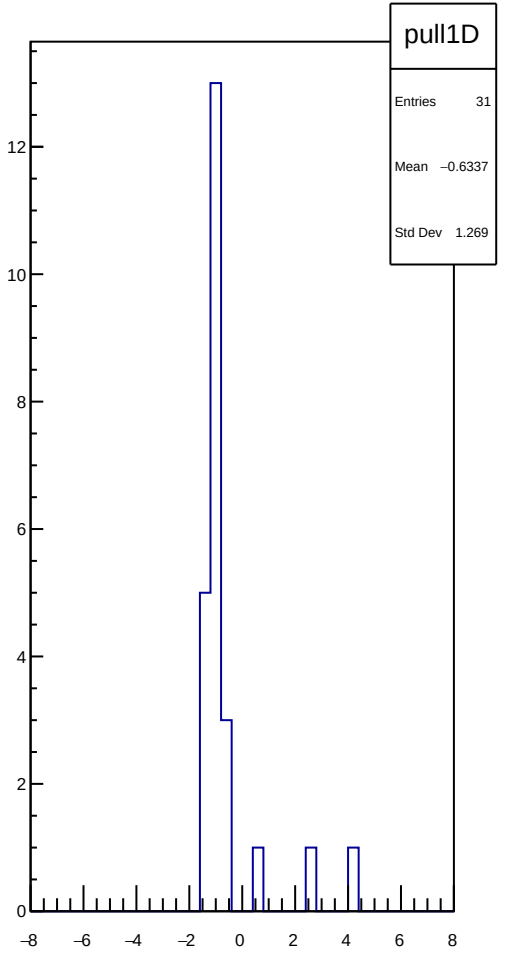

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1566 / 30
p0 −4.405 ± 0.168
0
−5
−10
−15
−20
−25
−30
−35
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.77
Std Dev 25.93
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.005
Std Dev 1.968
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

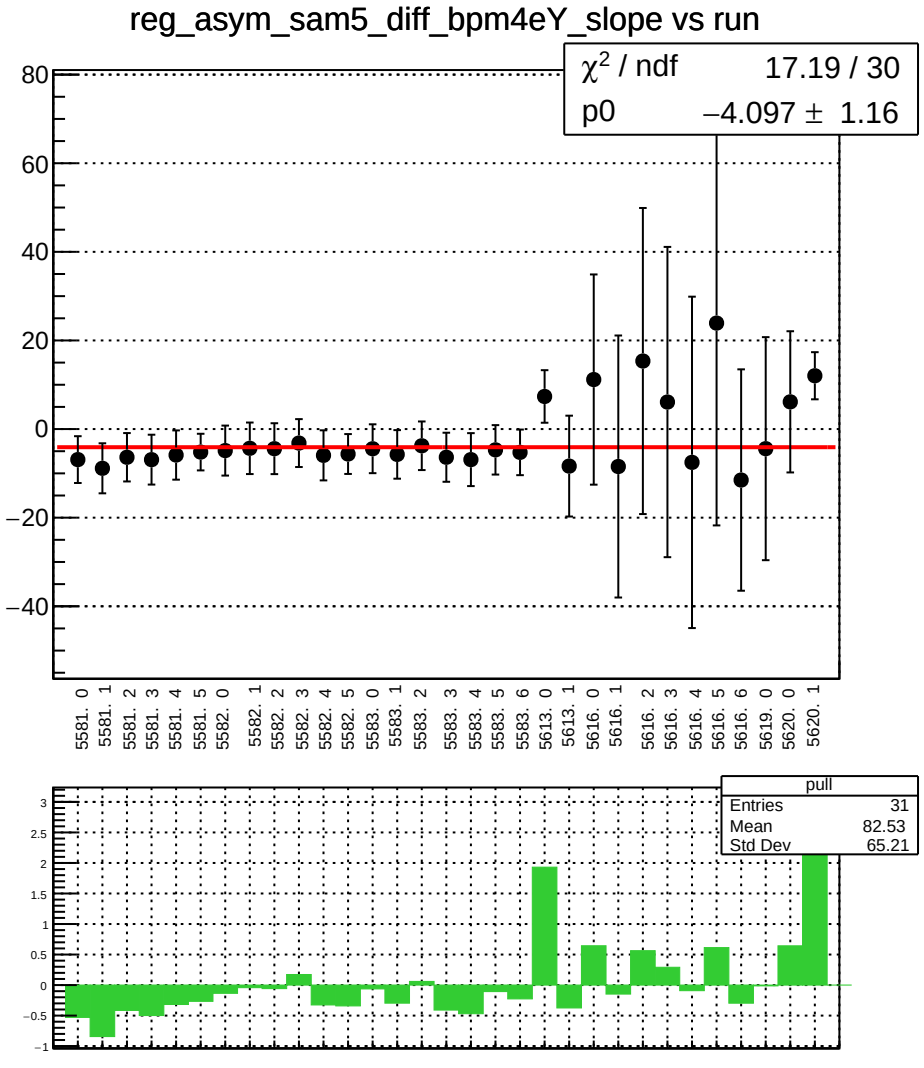

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 1406 / 30
p0 −11.42 ± 1.579
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.3
Std Dev 10.36
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18

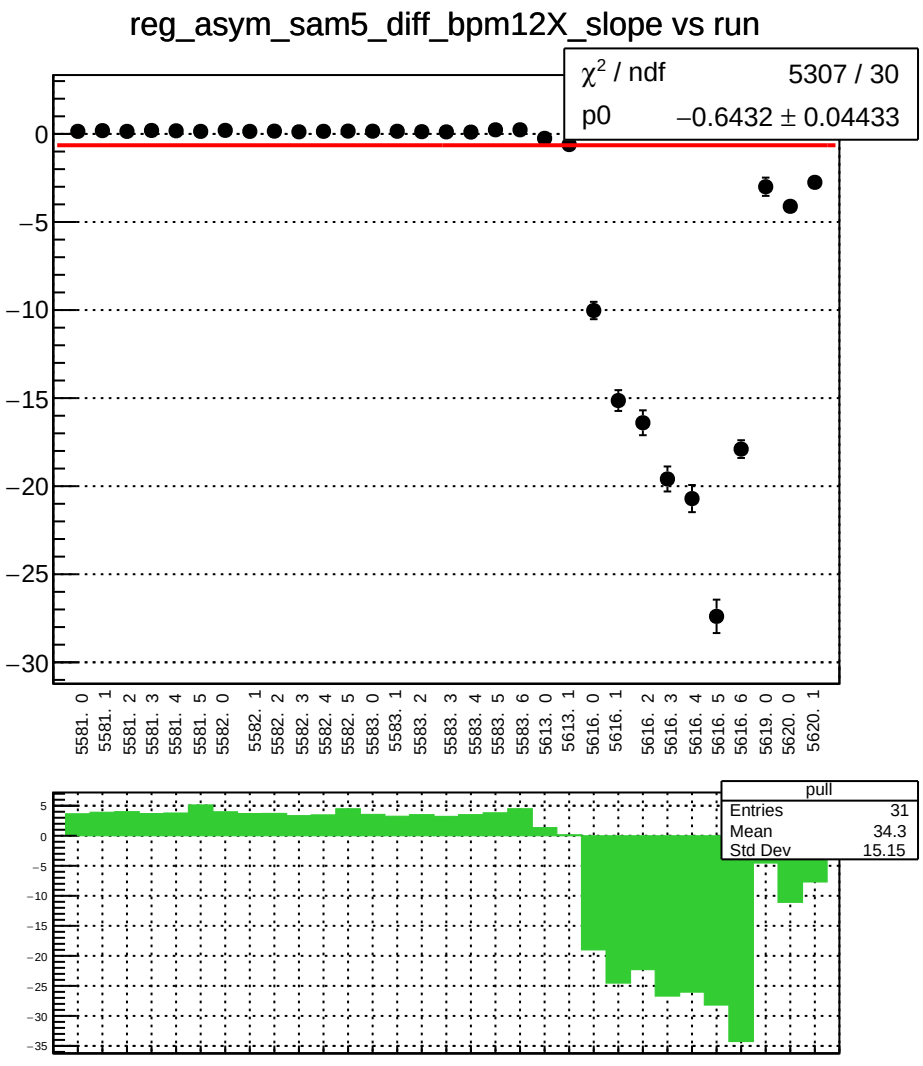

pull1D
Entries 31
Mean 0.7782
Std Dev 1.383
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

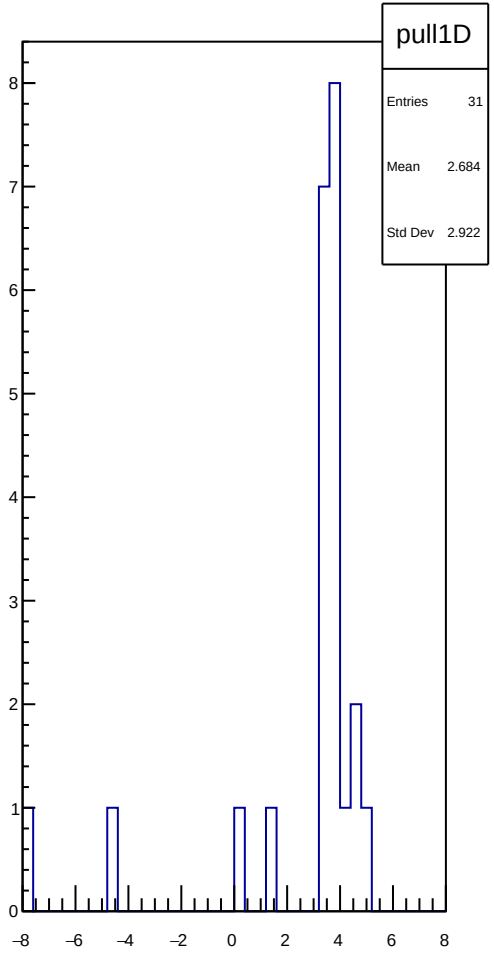

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 17 / 30
p0 67.92 ± 0.8834
pull
Entries 31
Mean 23.04
Std Dev 6.256
pull1D
Entries 31
Mean 0.2295
Std Dev 0.704

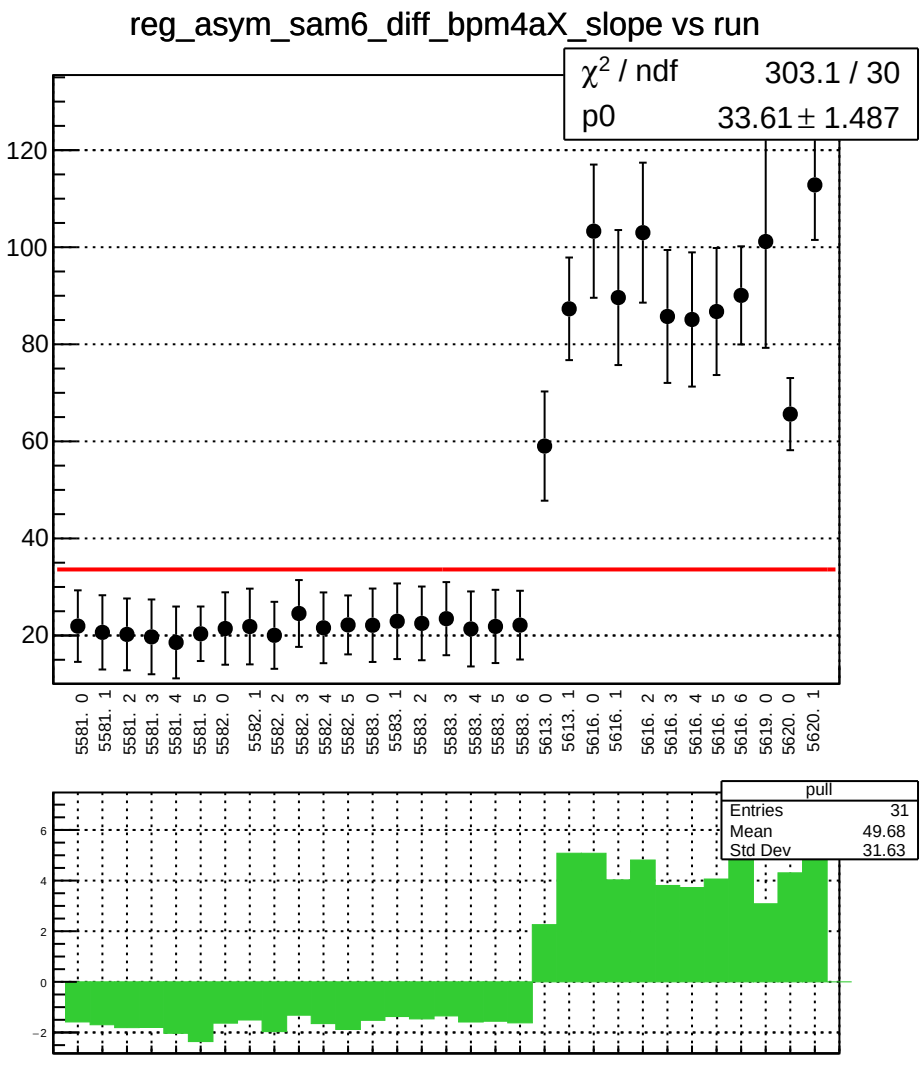

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1216 / 30
p0 5.576 ± 1.51
700
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 29.67
Std Dev 9.526
16
14
12
10
8
6
4
2
0
−2

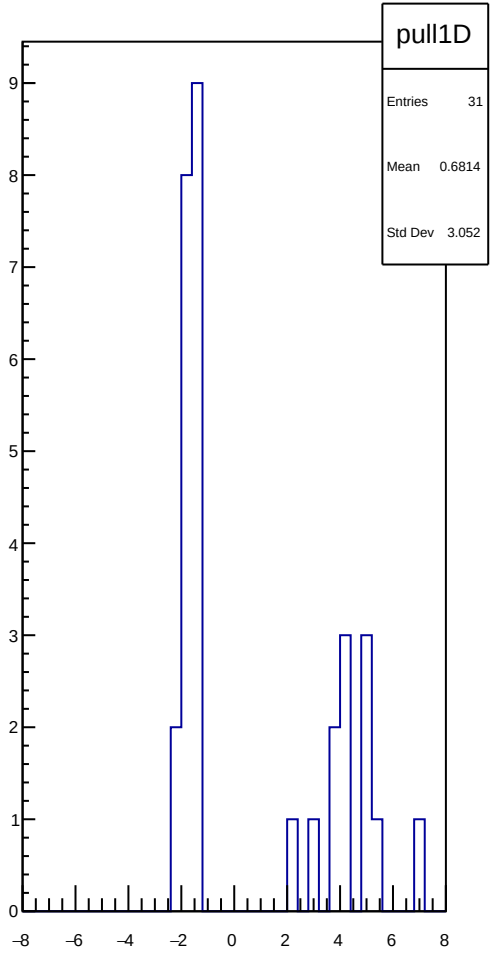

pull1D
Entries 31
Mean −0.6337
Std Dev 1.269
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

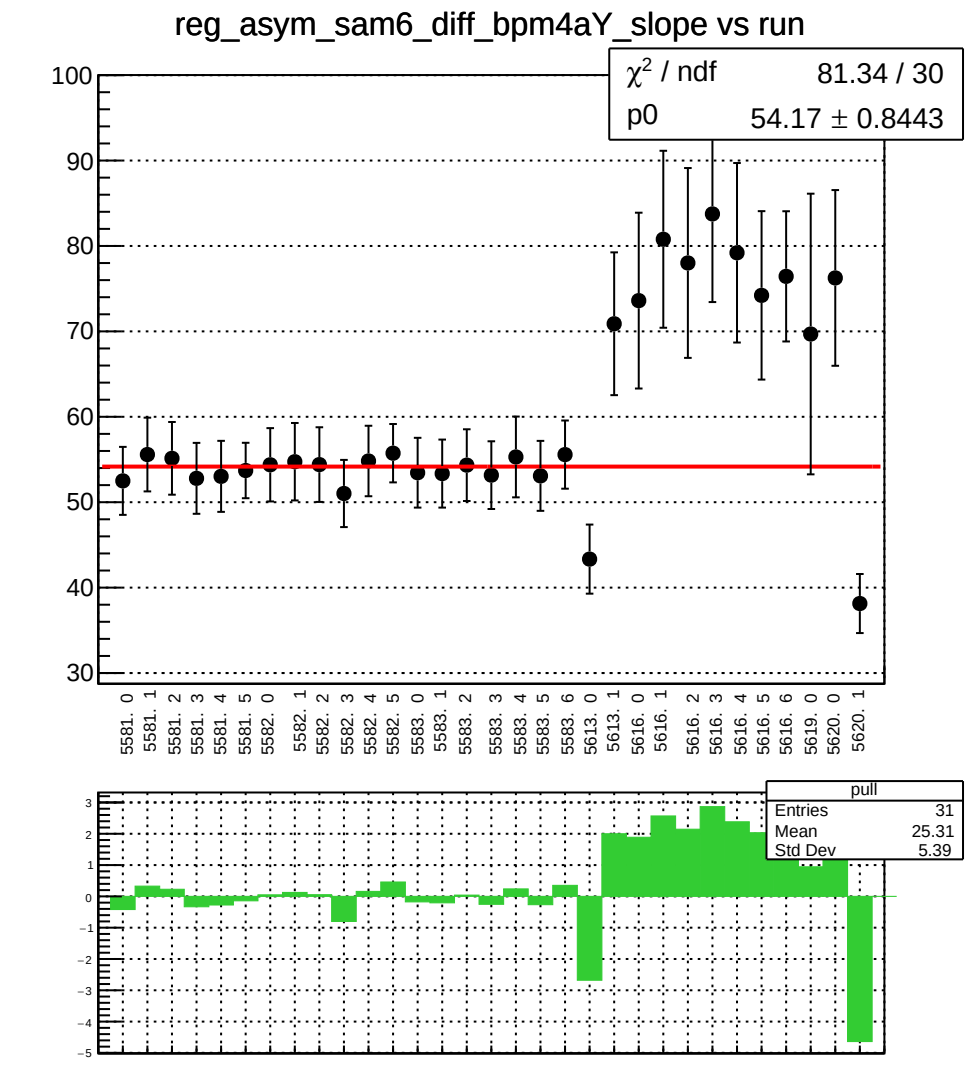

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 17.19 / 30
p0 −4.097 ± 1.16
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 82.53
Std Dev 65.21
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.05436
Std Dev 0.7428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

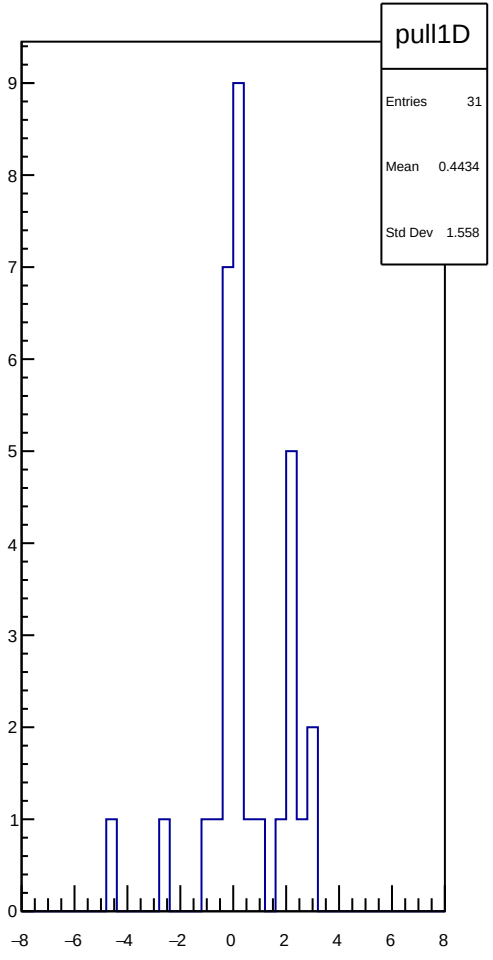

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 5307 / 30
p0 −0.6432 ± 0.04433
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.3
Std Dev 15.15
5
0
−5
−10
−15
−20
−25
−30
−35

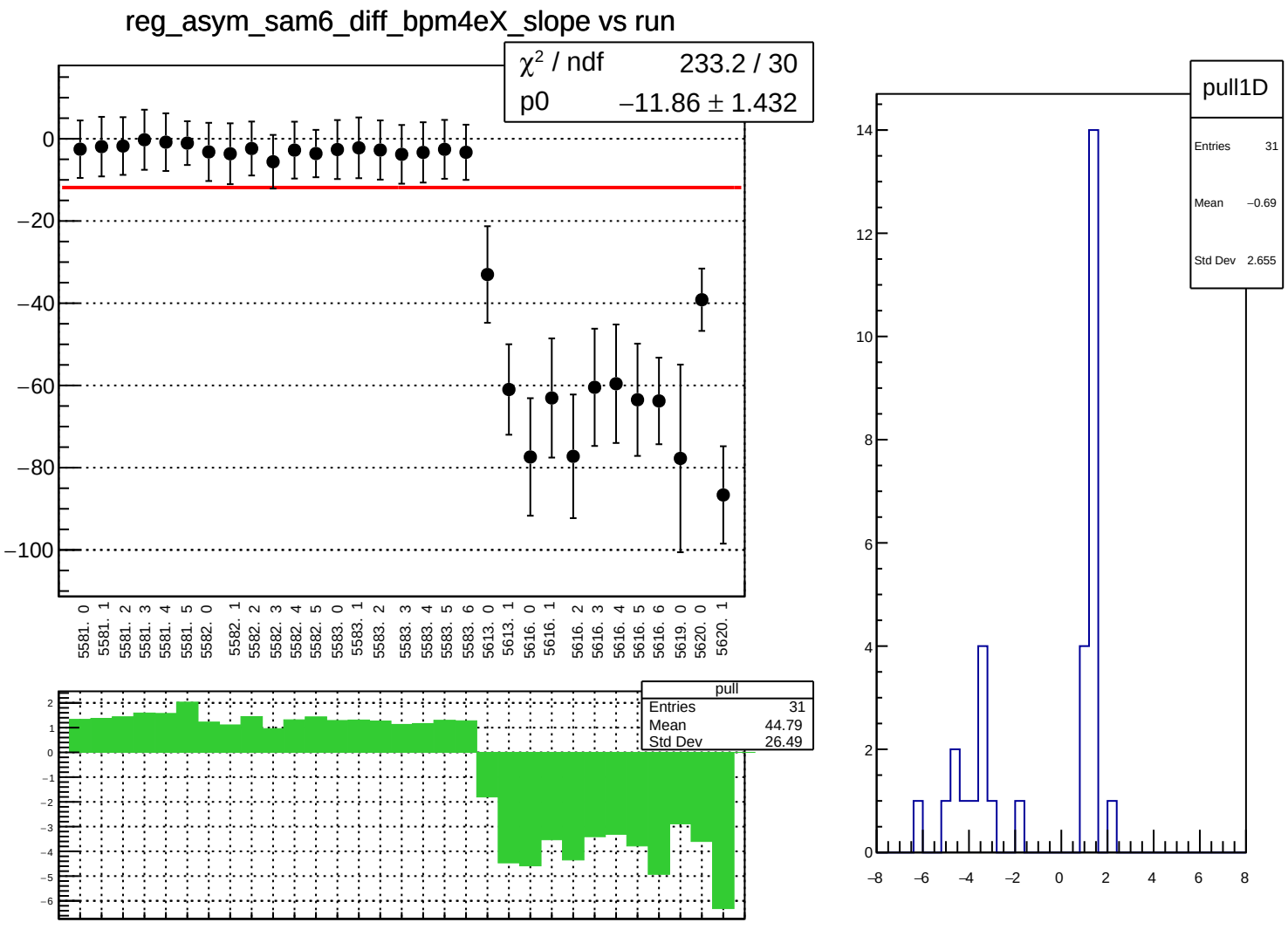

pull1D
Entries 31
Mean 2.684
Std Dev 2.922
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

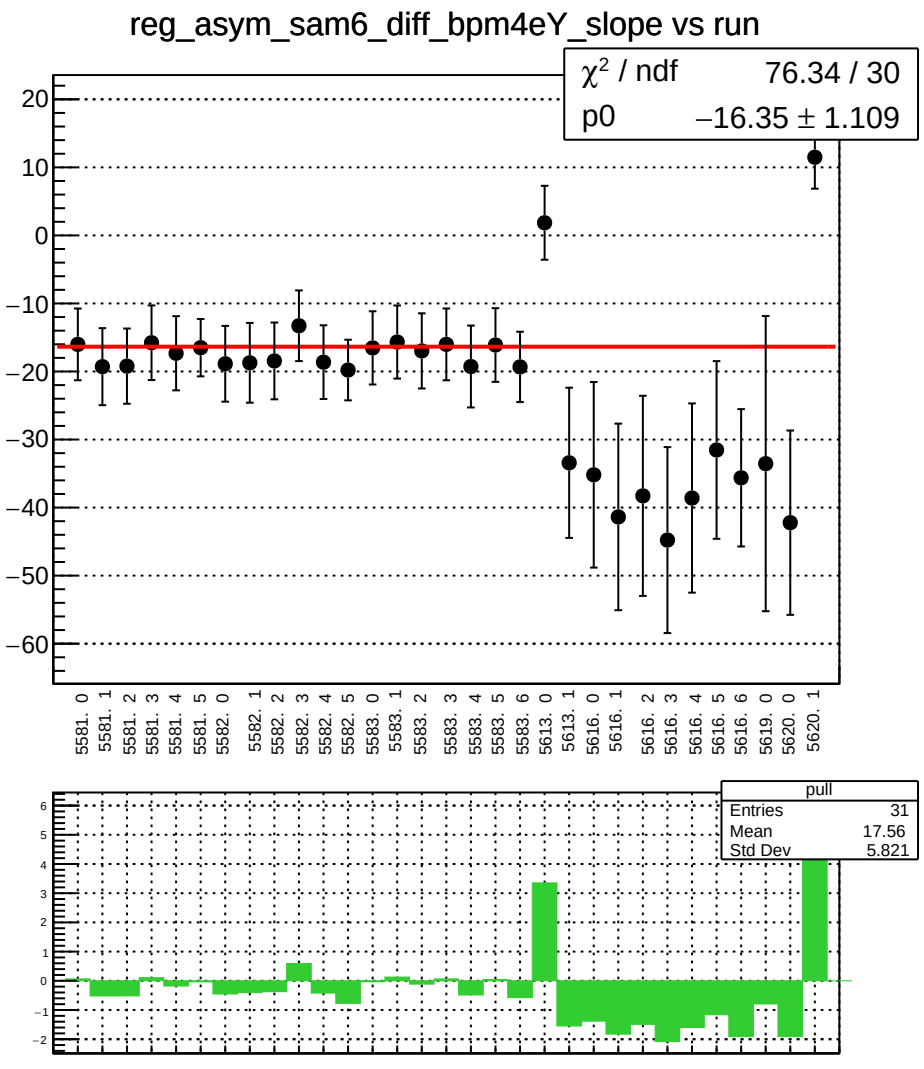

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 303.1 / 30
p0 33.61 ± 1.487
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 49.68
Std Dev 31.63
6
4
2
0
−2

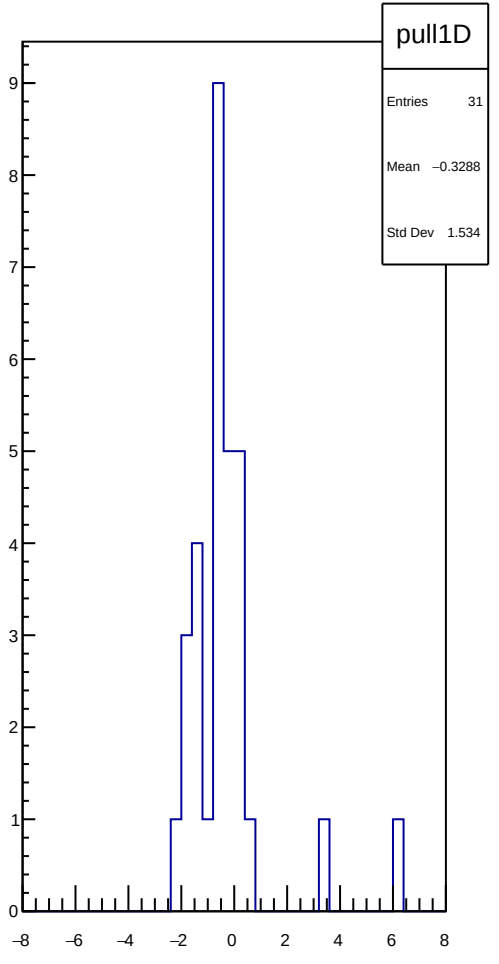

pull1D
Entries 31
Mean 0.6814
Std Dev 3.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

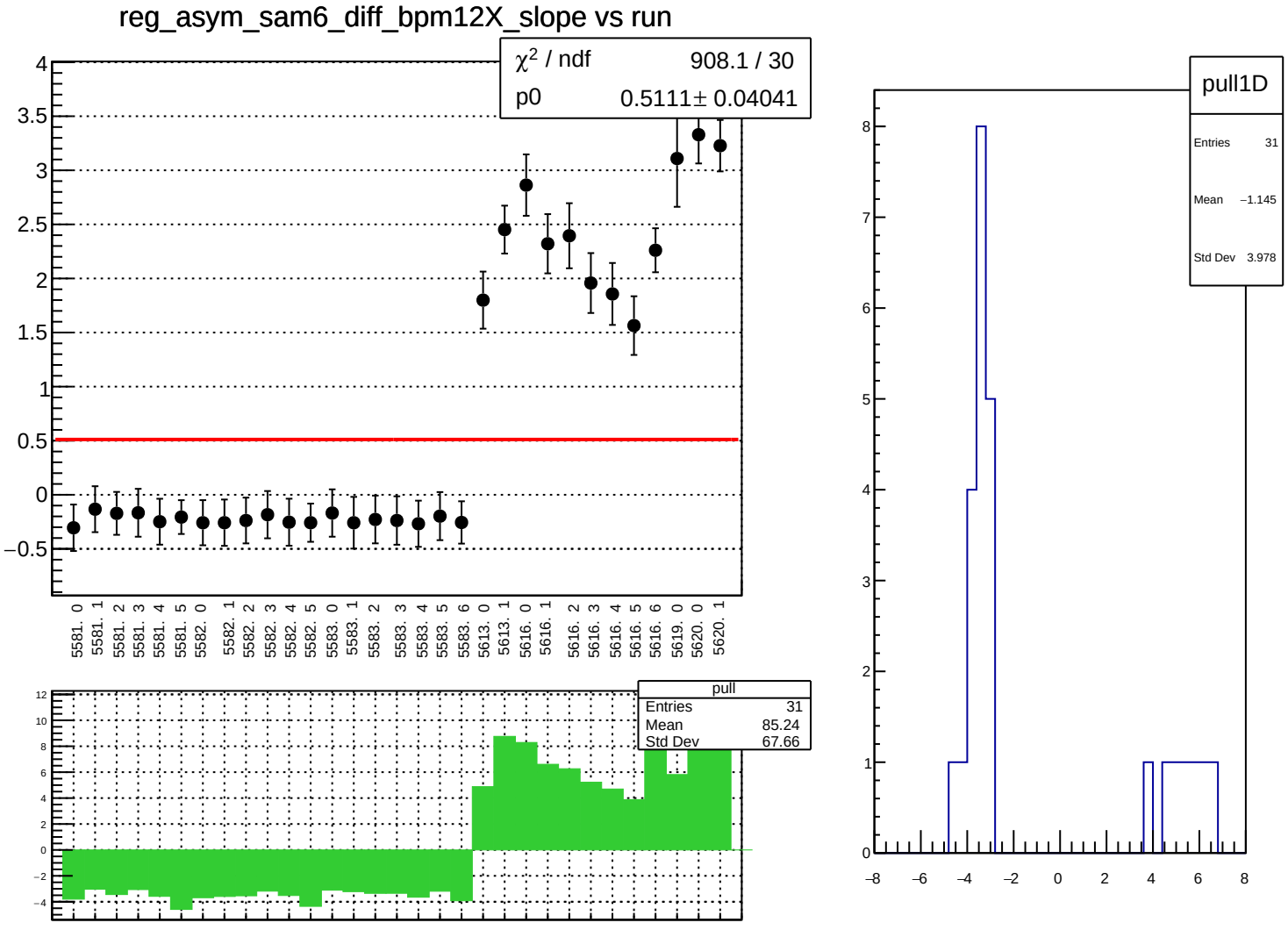

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 81.34 / 30
p0 54.17 ± 0.8443
pull
Entries 31
Mean 25.31
Std Dev 5.39

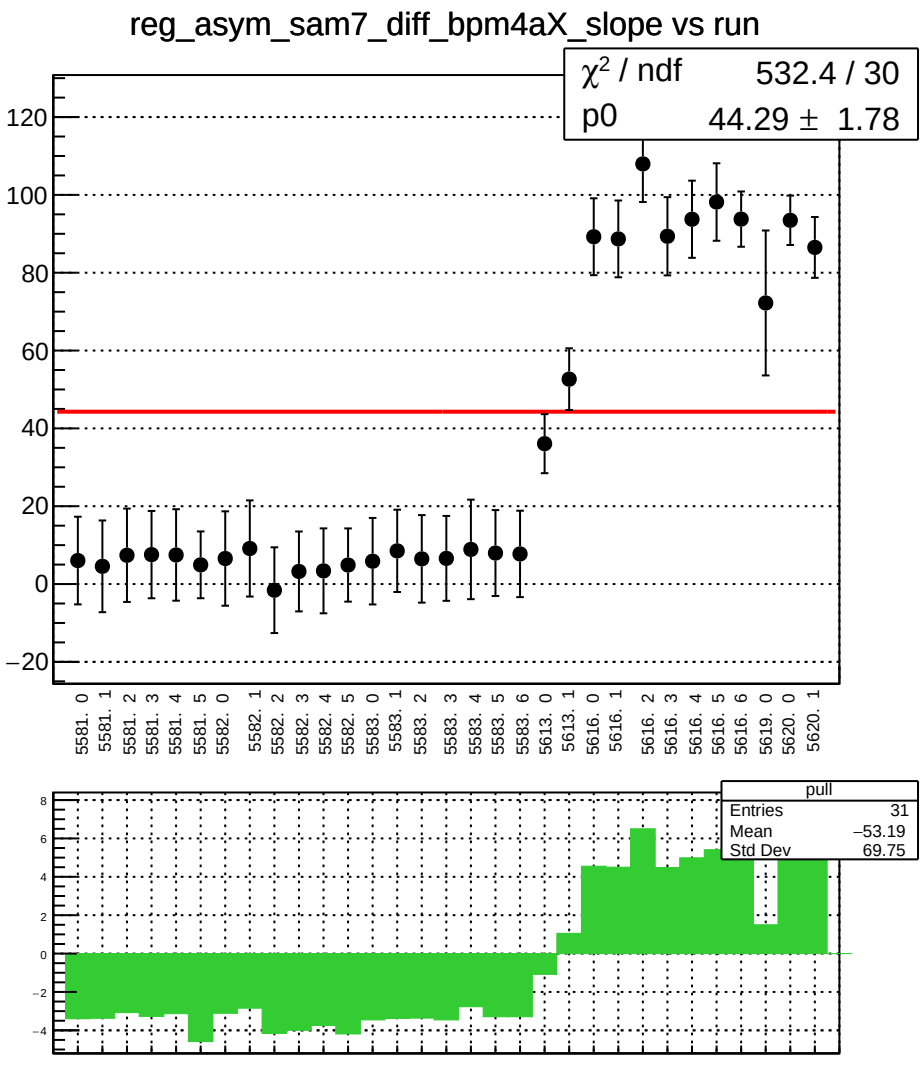

pull1D
Entries 31
Mean 0.4434
Std Dev 1.558

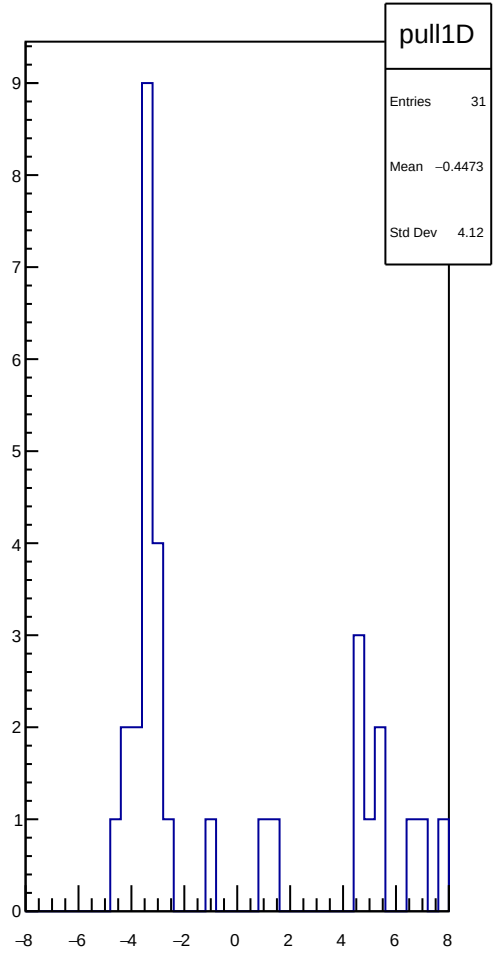

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 233.2 / 30
p0 −11.86 ± 1.432
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 44.79
Std Dev 26.49
pull1D
Entries 31
Mean −0.69
Std Dev 2.655

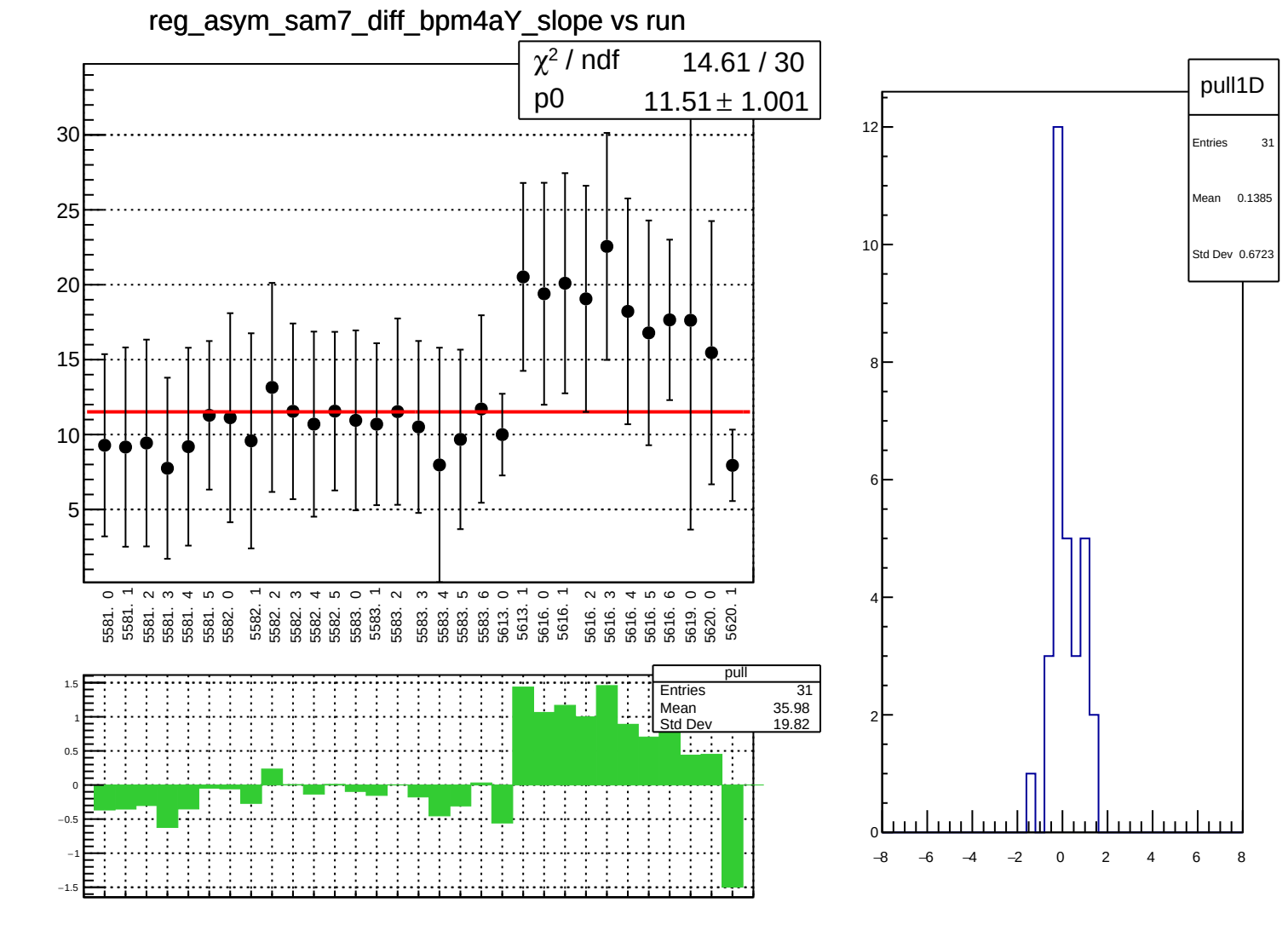

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 76.34 / 30
p0 −16.35 ± 1.109
20
10
0
−10
−20
−30
−40
−50
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.56
Std Dev 5.821
6
5
4
3
2
1
0
−1
−2

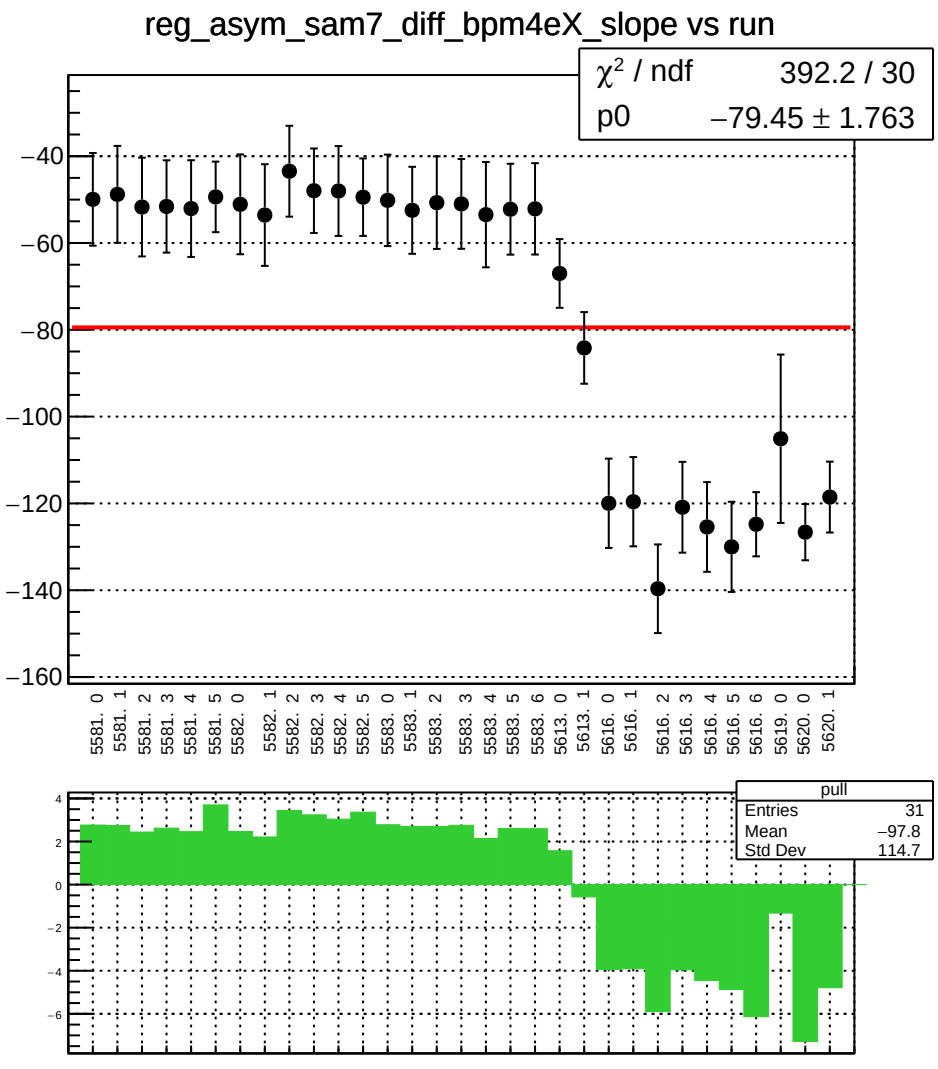

pull1D
Entries 31
Mean −0.3288
Std Dev 1.534
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

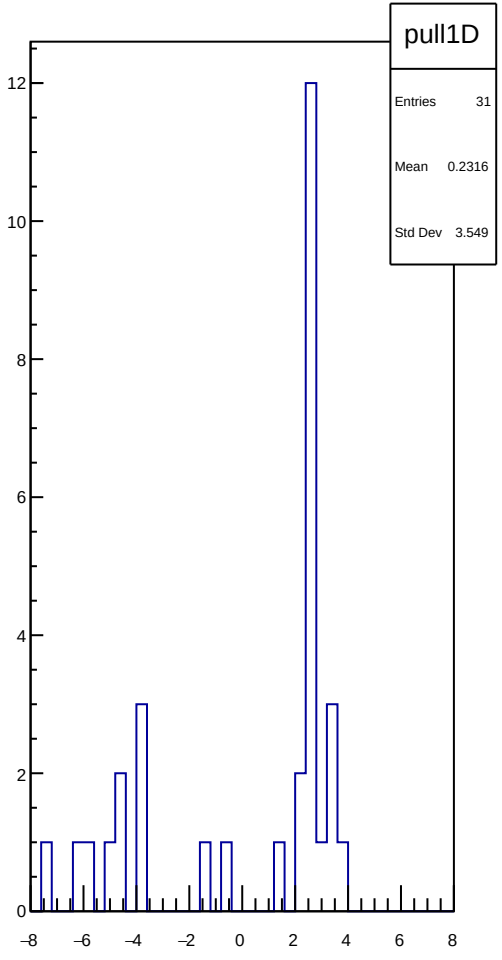

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 908.1 / 30
p0 0.5111± 0.04041
pull
Entries 31
Mean 85.24
Std Dev 67.66
pull1D
Entries 31
Mean −1.145
Std Dev 3.978

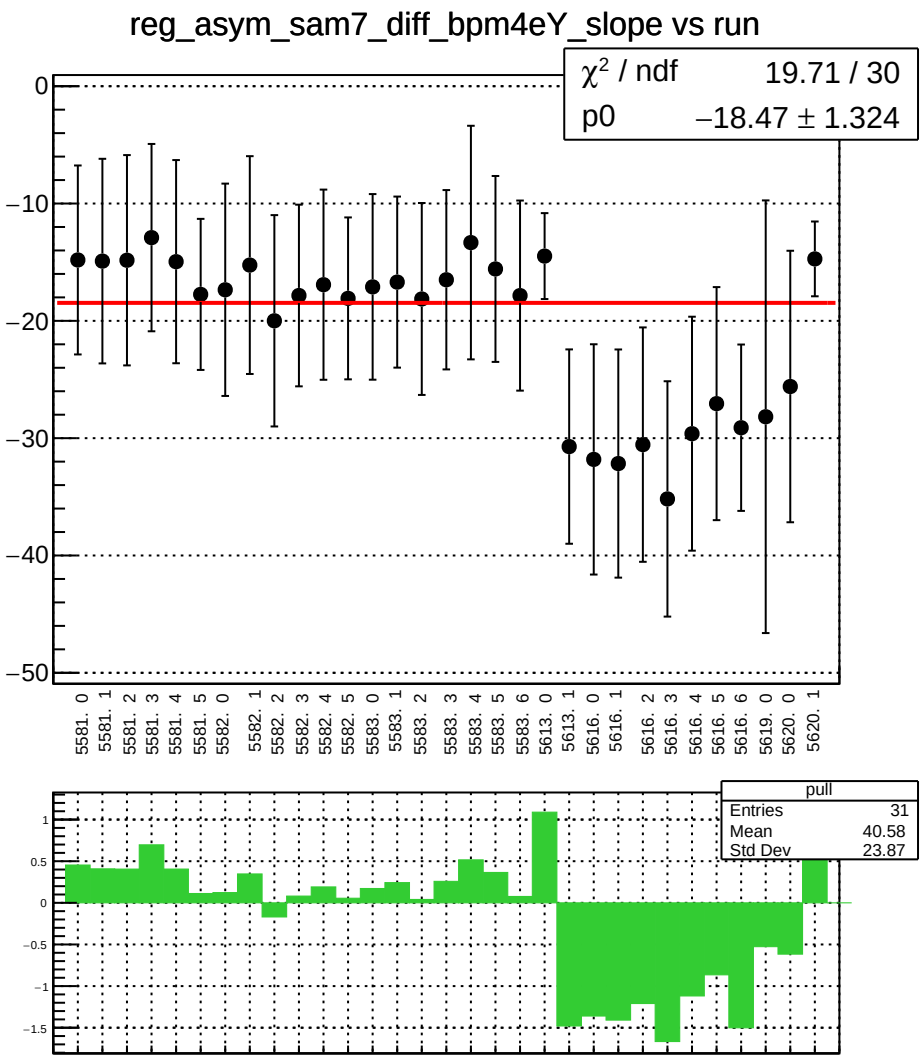

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 532.4 / 30
p0 44.29 ± 1.78
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −53.19
Std Dev 69.75
8
6
4
2
0
−2
−4

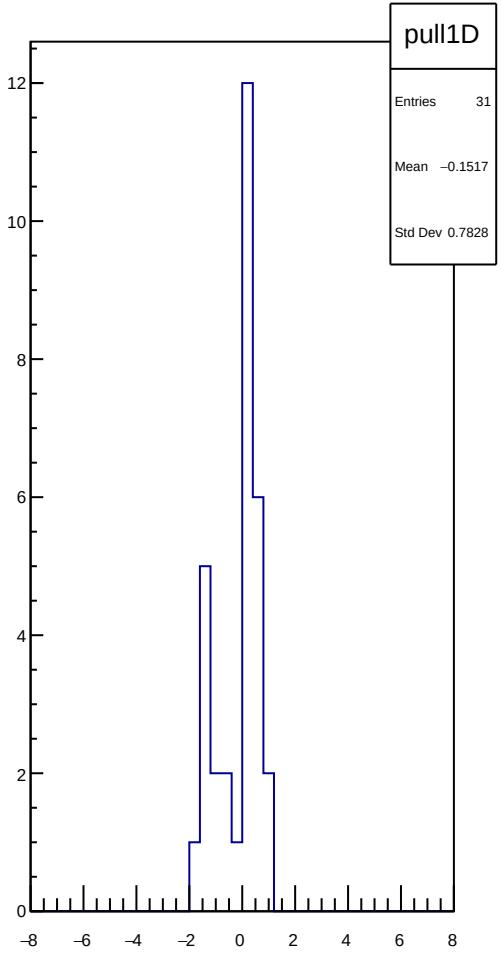

pull1D
Entries 31
Mean −0.4473
Std Dev 4.12
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

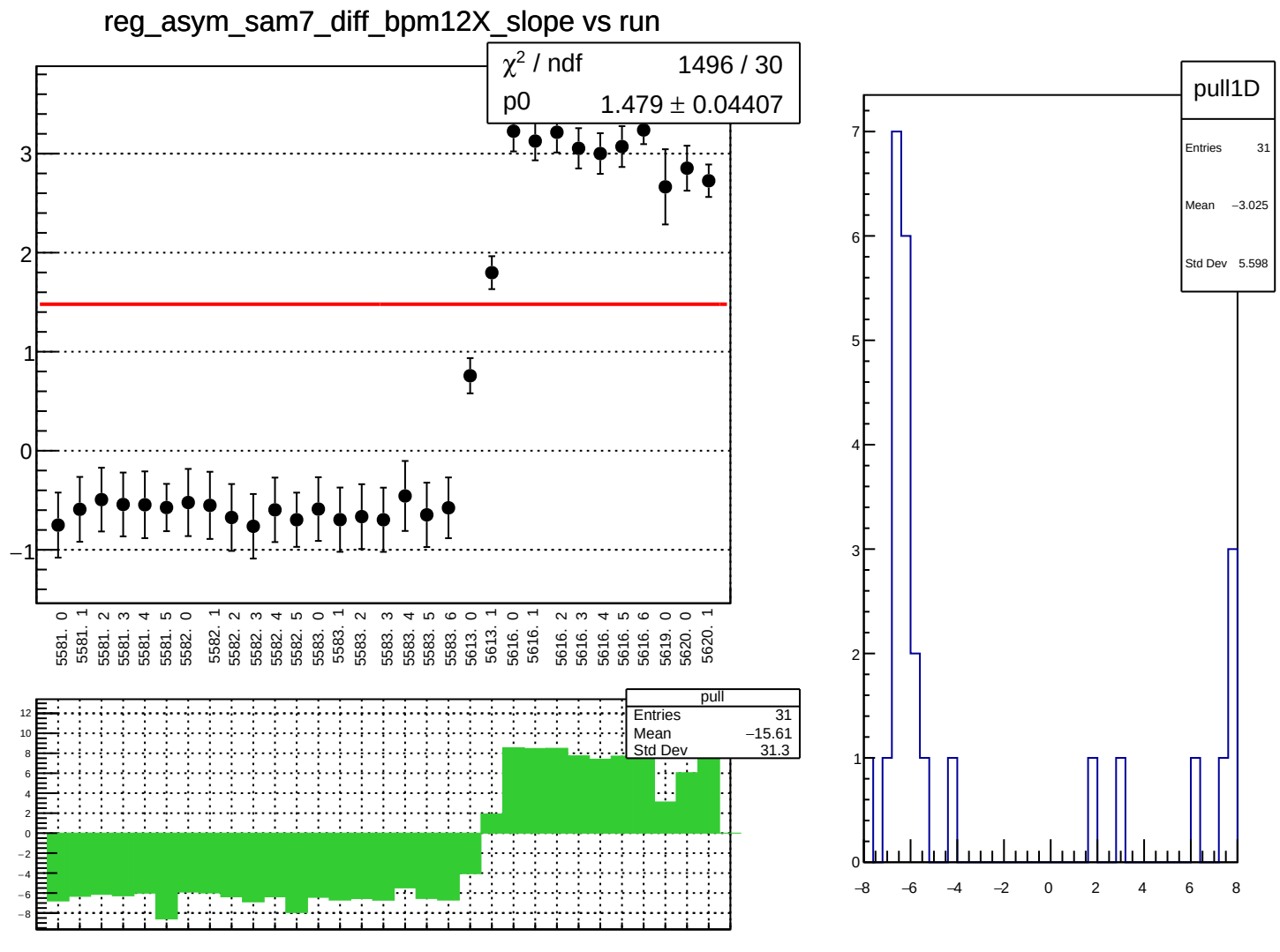

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 14.61 / 30
p0 11.51 ± 1.001
30
25
20
15
10
5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.98
Std Dev 19.82
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.1385
Std Dev 0.6723
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

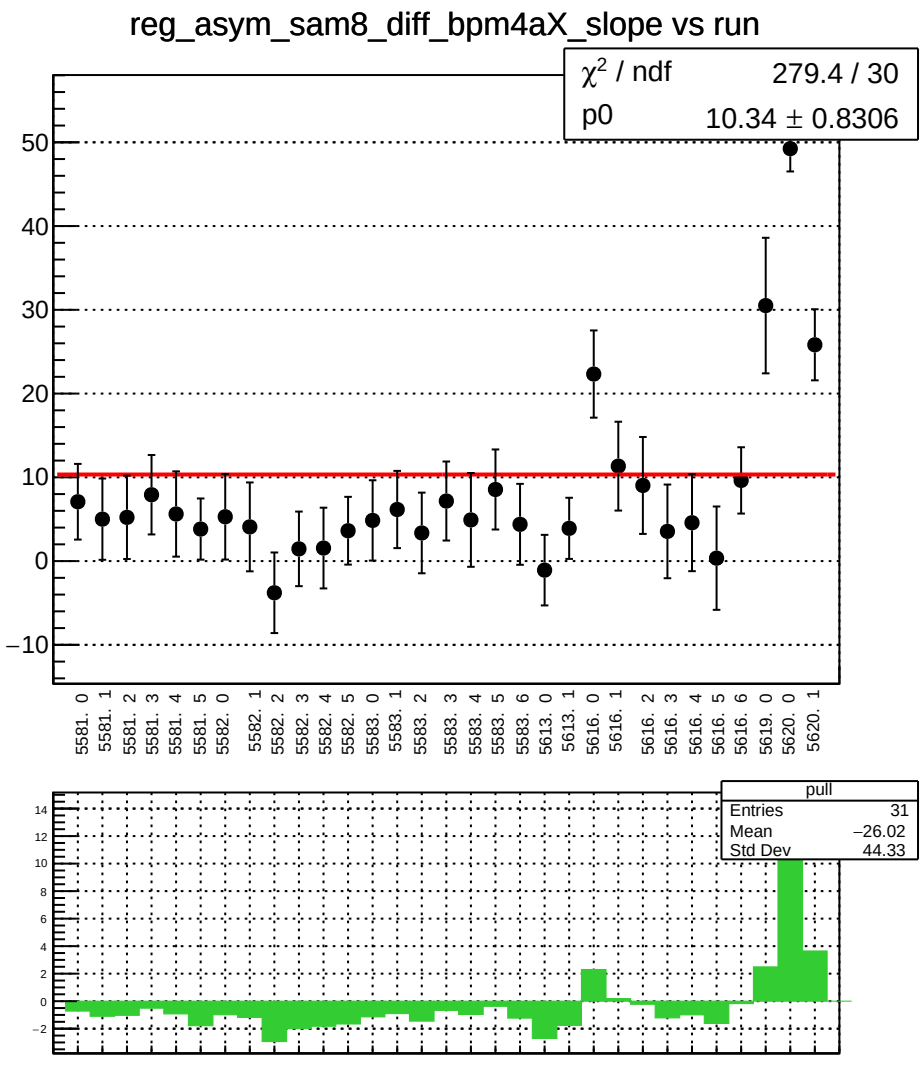

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 392.2 / 30
p0 −79.45 ± 1.763
−40
−60
−80
−100
−120
−140
−160
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −97.8
Std Dev 114.7
4
2
0
−2
−4
−6

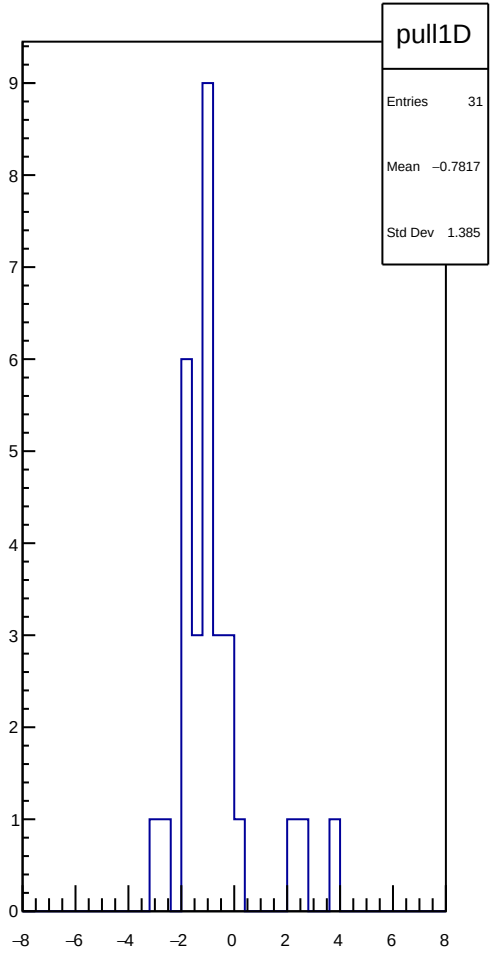

pull1D
Entries 31
Mean 0.2316
Std Dev 3.549
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

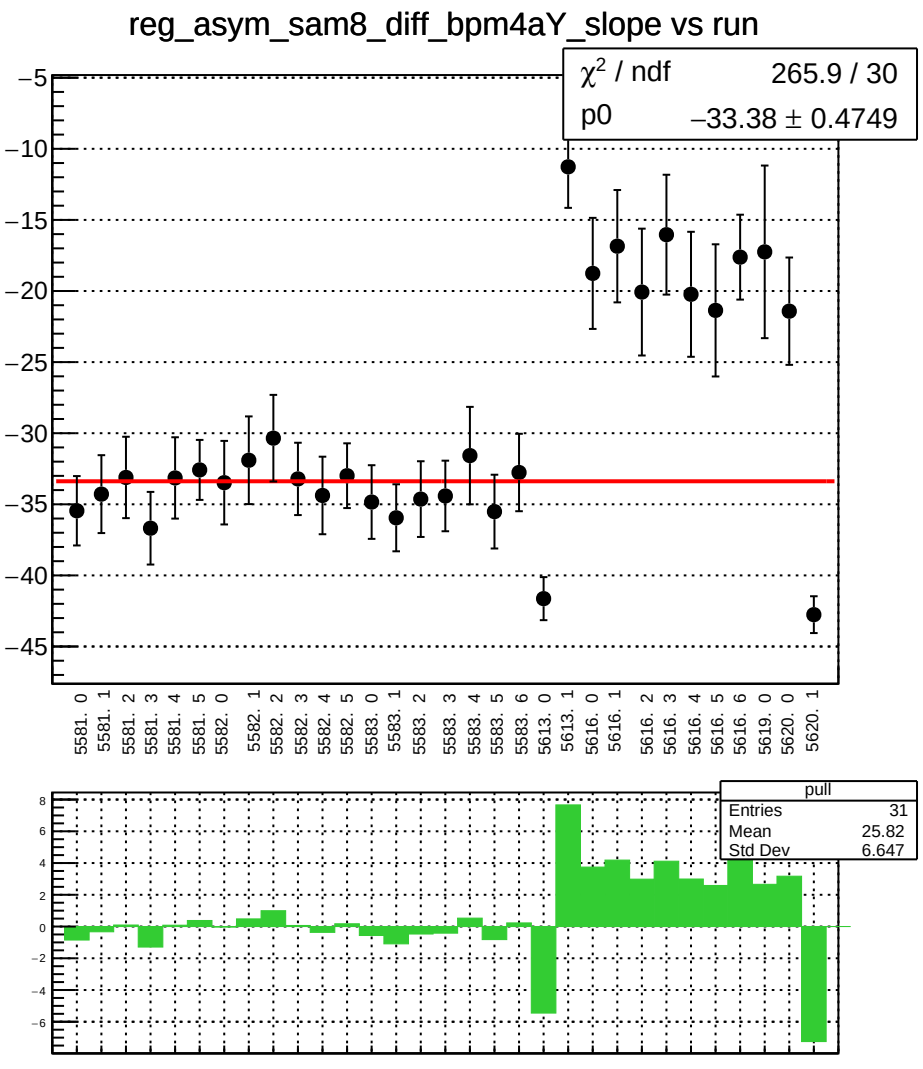

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 19.71 / 30
p0 −18.47 ± 1.324
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.58
Std Dev 23.87
1
0.5
0
−0.5
−1
−1.5

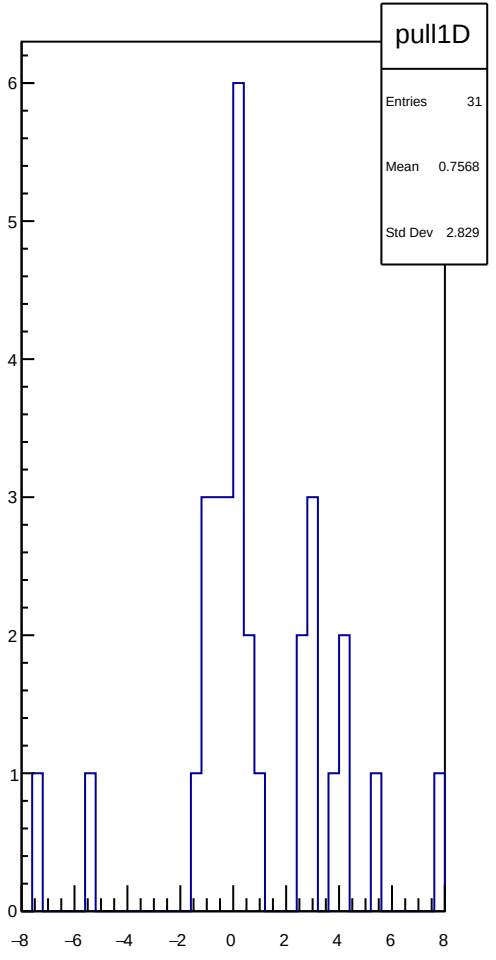

pull1D
Entries 31
Mean −0.1517
Std Dev 0.7828
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

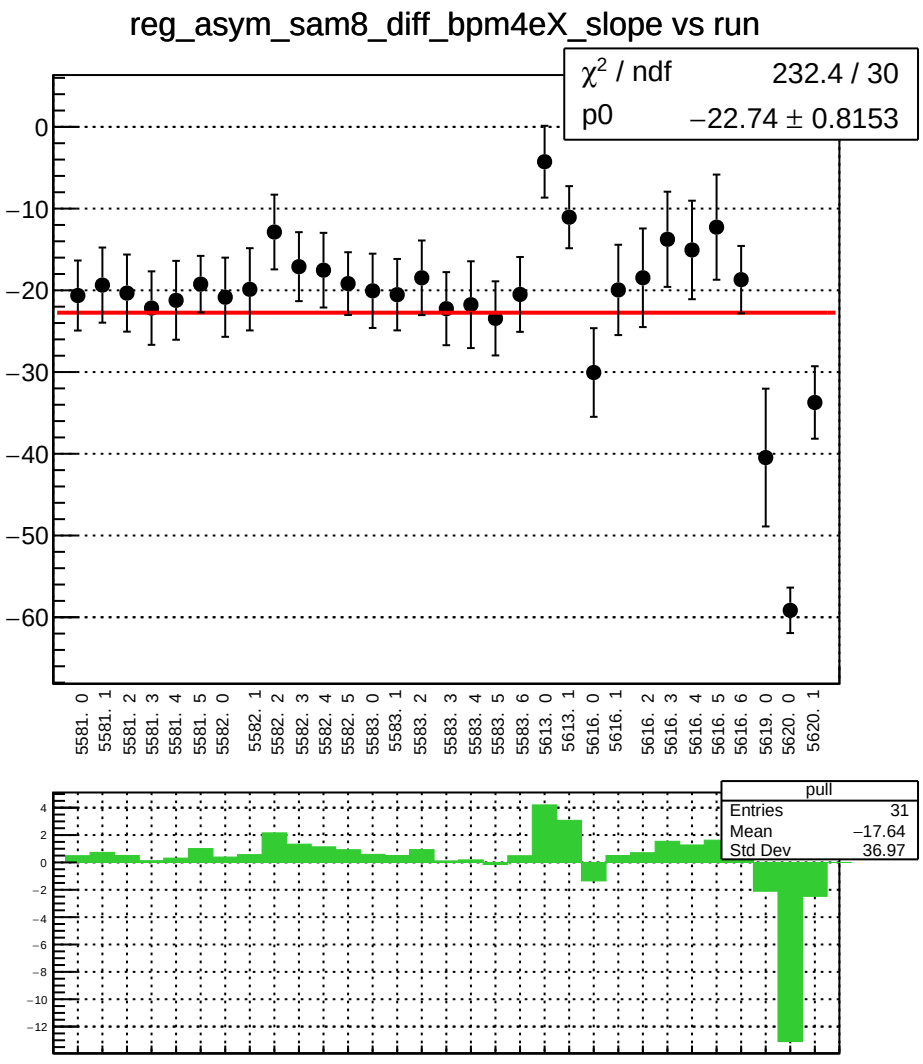

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 1496 / 30
p0 1.479 ± 0.04407
pull
Entries 31
Mean −15.61
Std Dev 31.3
pull1D
Entries 31
Mean −3.025
Std Dev 5.598

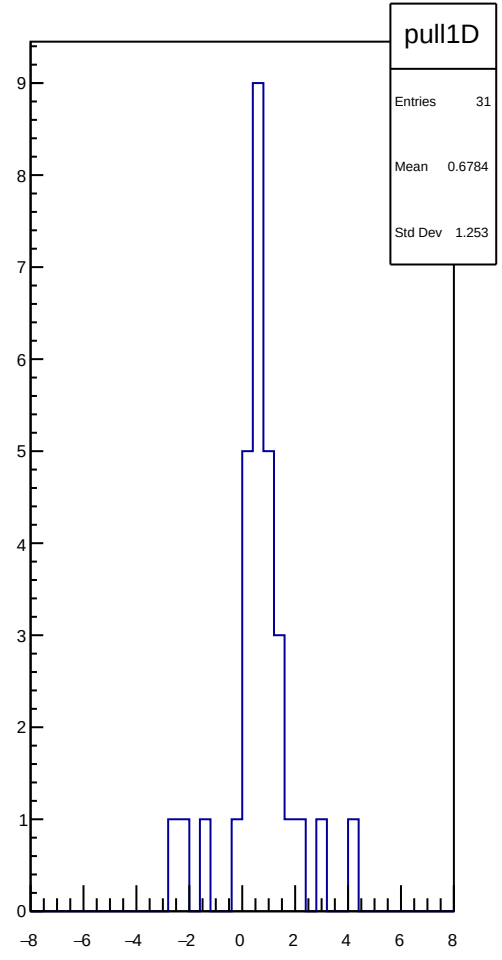

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 279.4 / 30
p0 10.34 ± 0.8306
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −26.02
Std Dev 44.33
14
12
10
8
6
4
2
0
−2

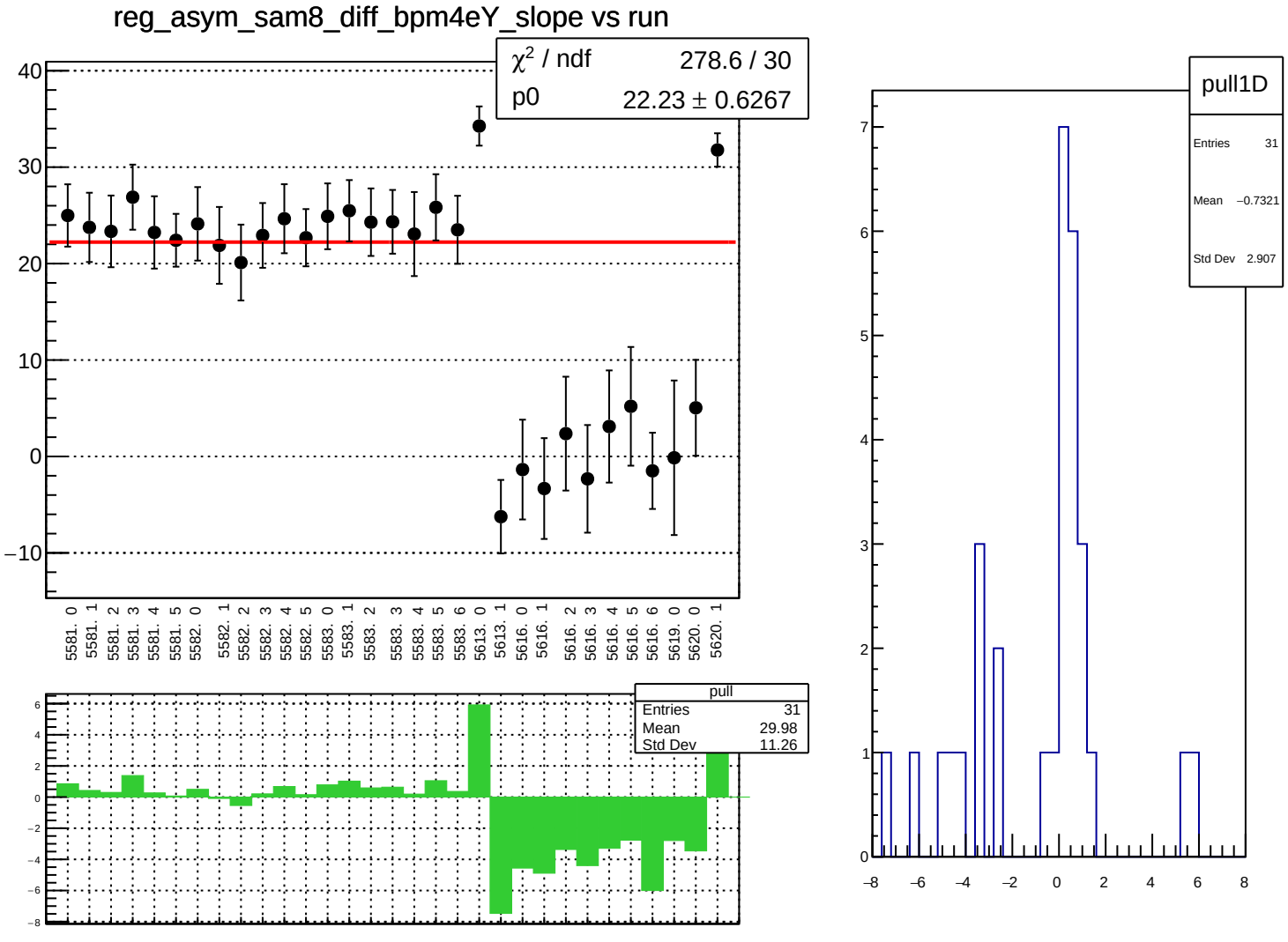

pull1D
Entries 31
Mean −0.7817
Std Dev 1.385
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

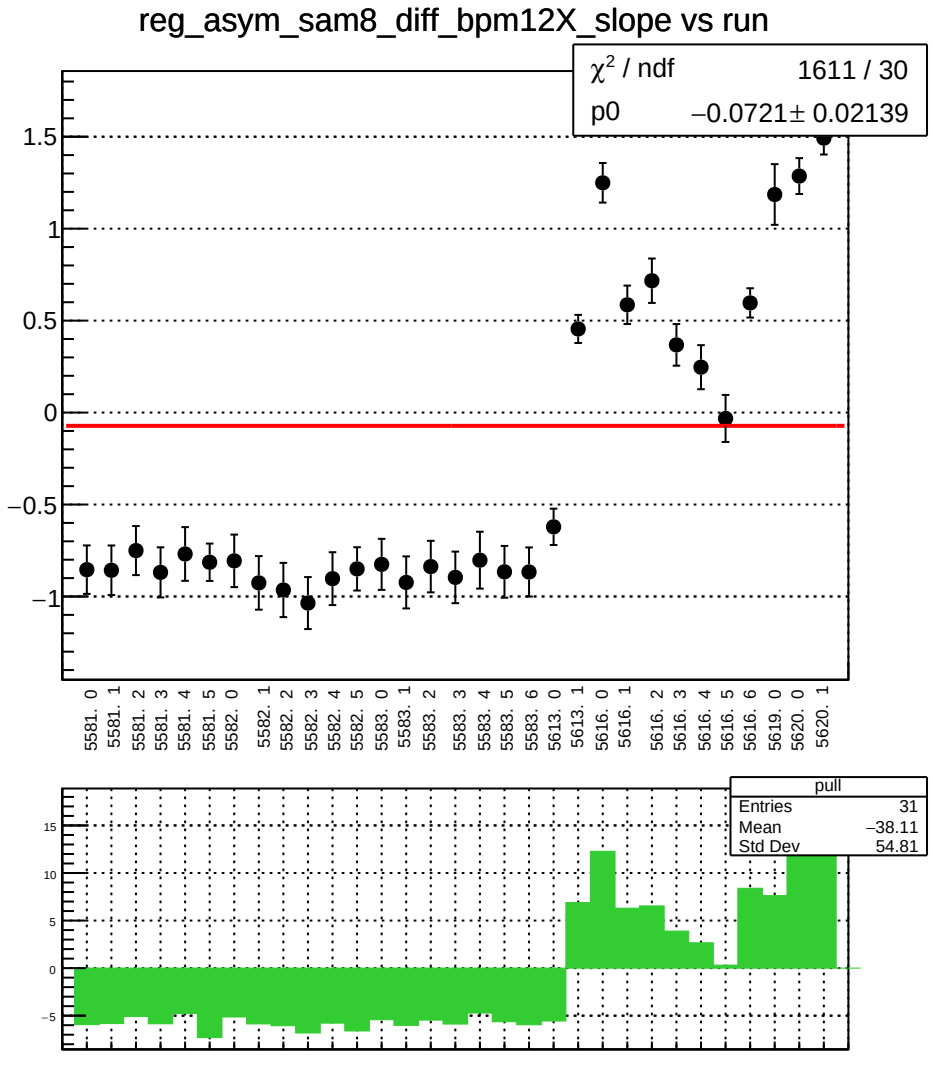

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 265.9 / 30
p0 −33.38 ± 0.4749
−5
−10
−15
−20
−25
−30
−35
−40
−45
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 25.82
Std Dev 6.647
8
6
4
2
0
−2
−4
−6

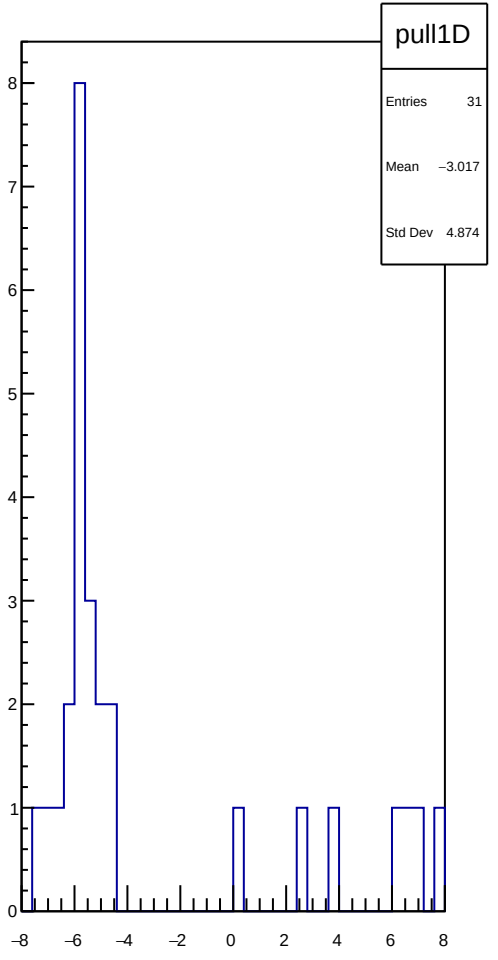

pull1D
Entries 31
Mean 0.7568
Std Dev 2.829
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

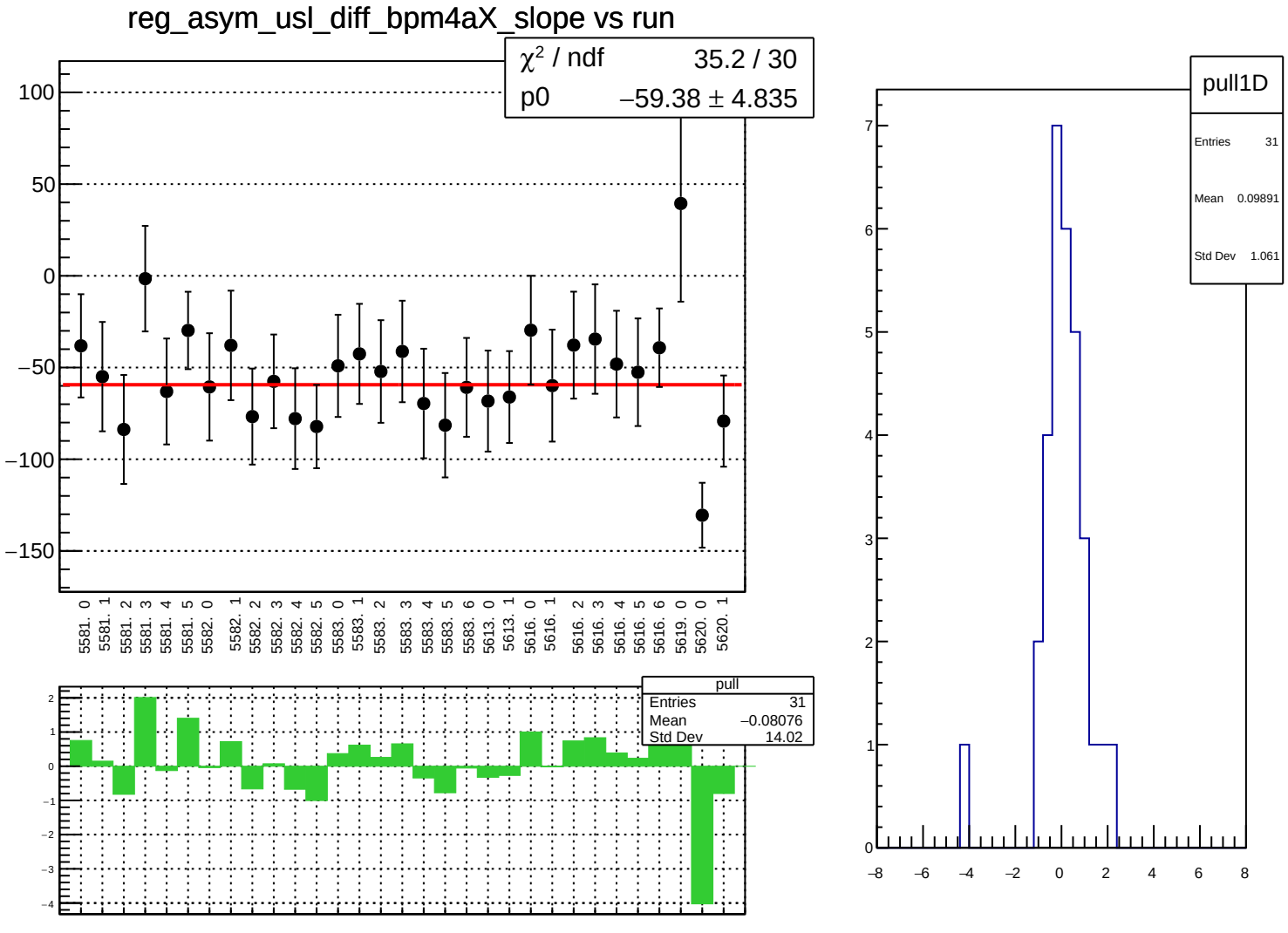

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 232.4 / 30
p0 −22.74 ± 0.8153
0
−10
−20
−30
−40
−50
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −17.64
Std Dev 36.97
4
2
0
−2
−4
−6
−8
−10
−12

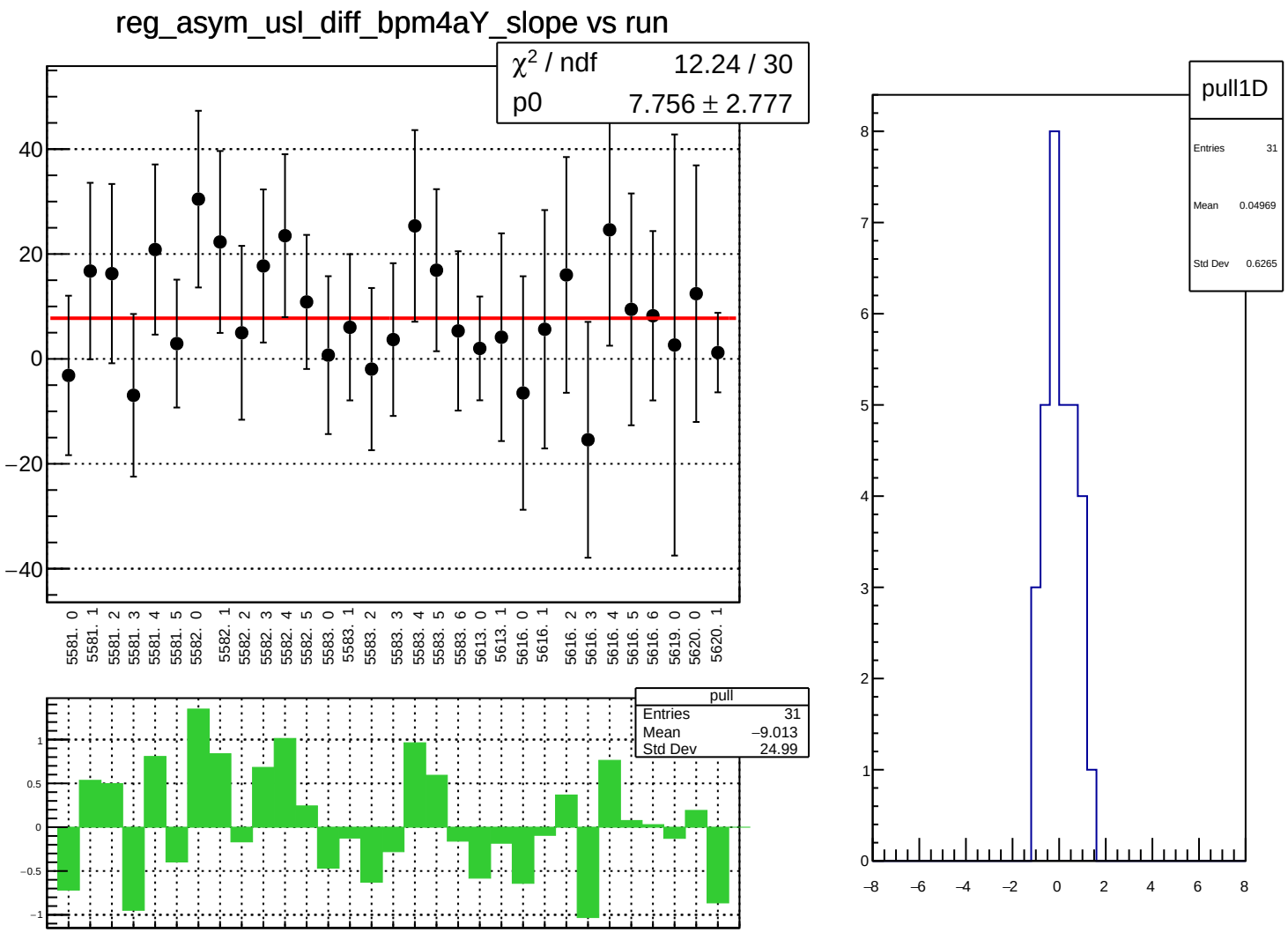

pull1D
Entries 31
Mean 0.6784
Std Dev 1.253
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

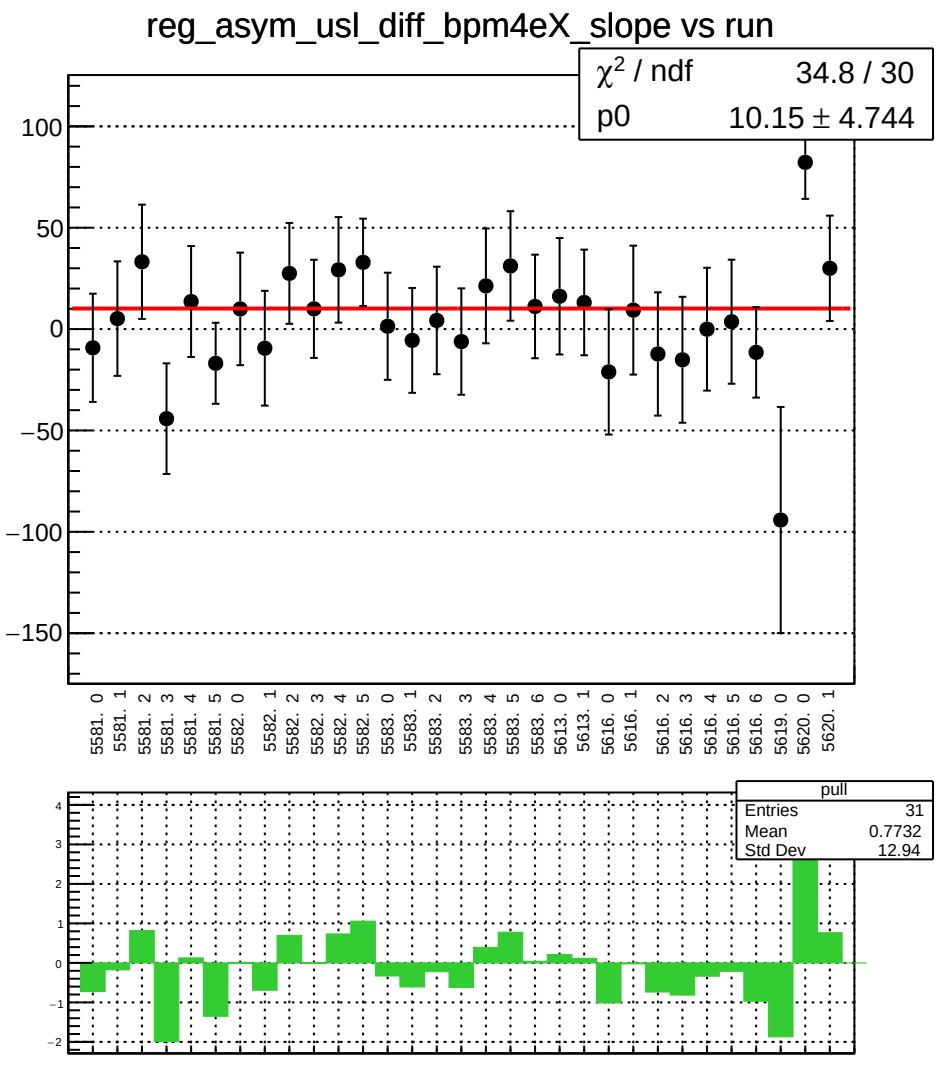

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 278.6 / 30
p0 22.23 ± 0.6267
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 29.98
Std Dev 11.26
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean −0.7321
Std Dev 2.907
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

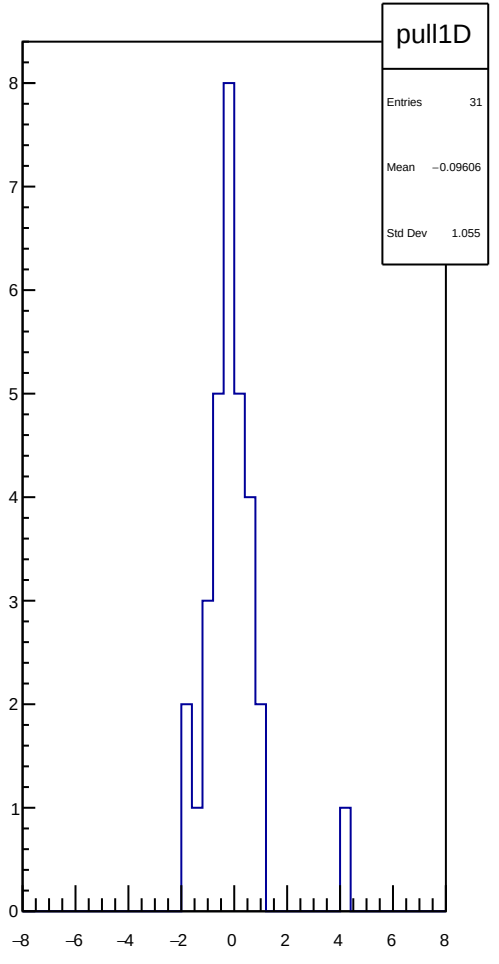

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 1611 / 30
p0 −0.0721± 0.02139
1.5
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −38.11
Std Dev 54.81
15
10
5
0
−5

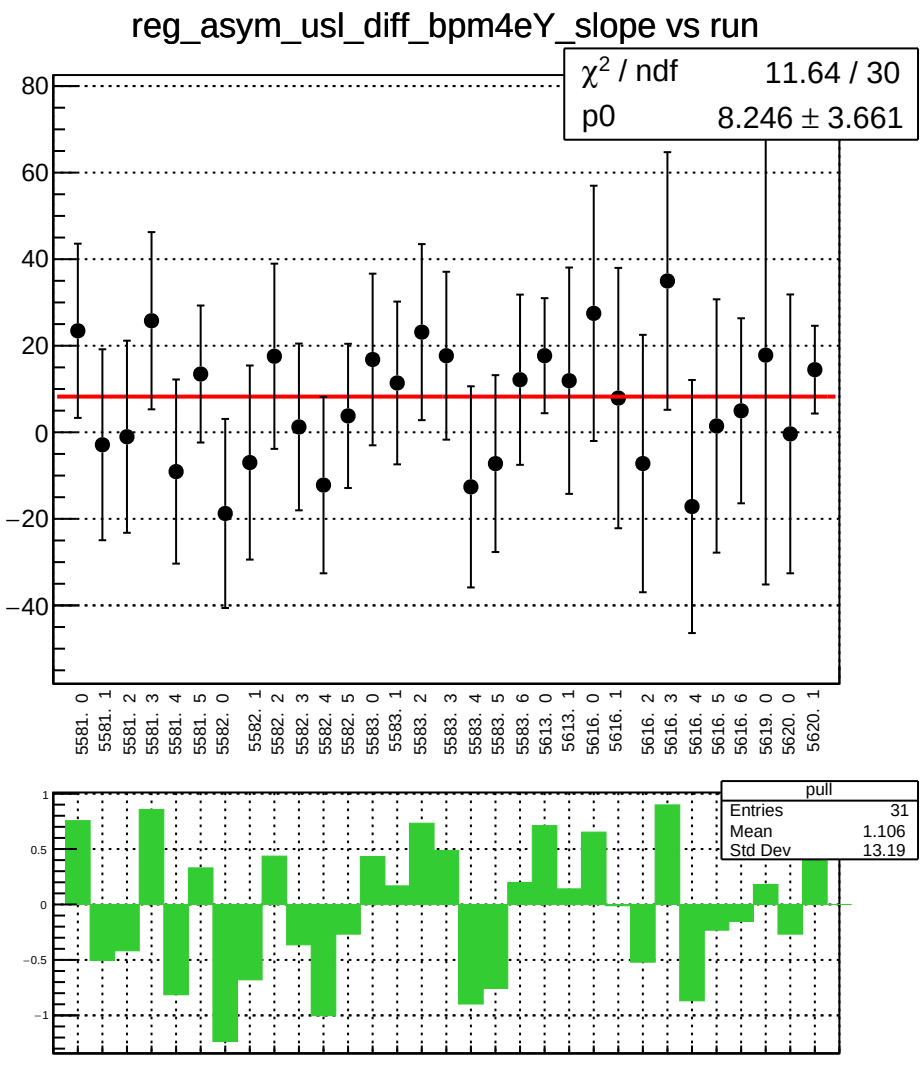

pull1D
Entries 31
Mean −3.017
Std Dev 4.874
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

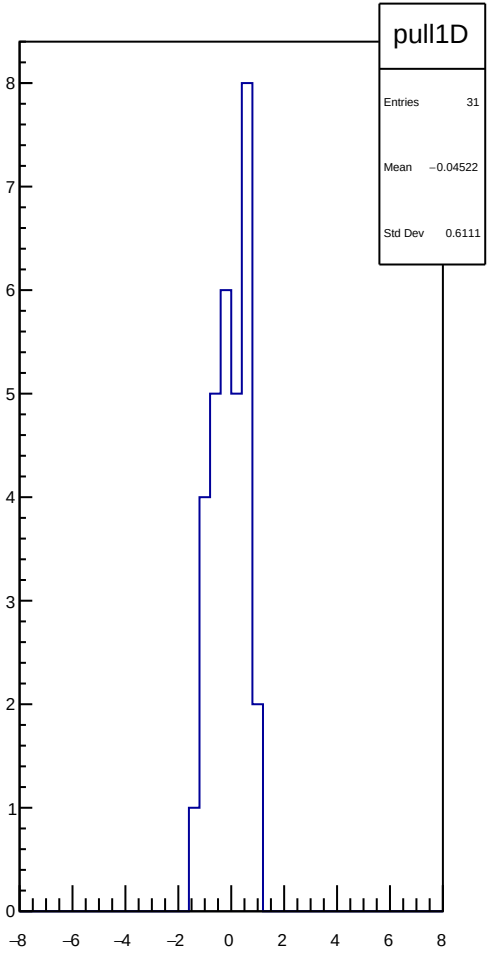

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 35.2 / 30
p0 −59.38 ± 4.835
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −0.08076
Std Dev 14.02
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.09891
Std Dev 1.061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

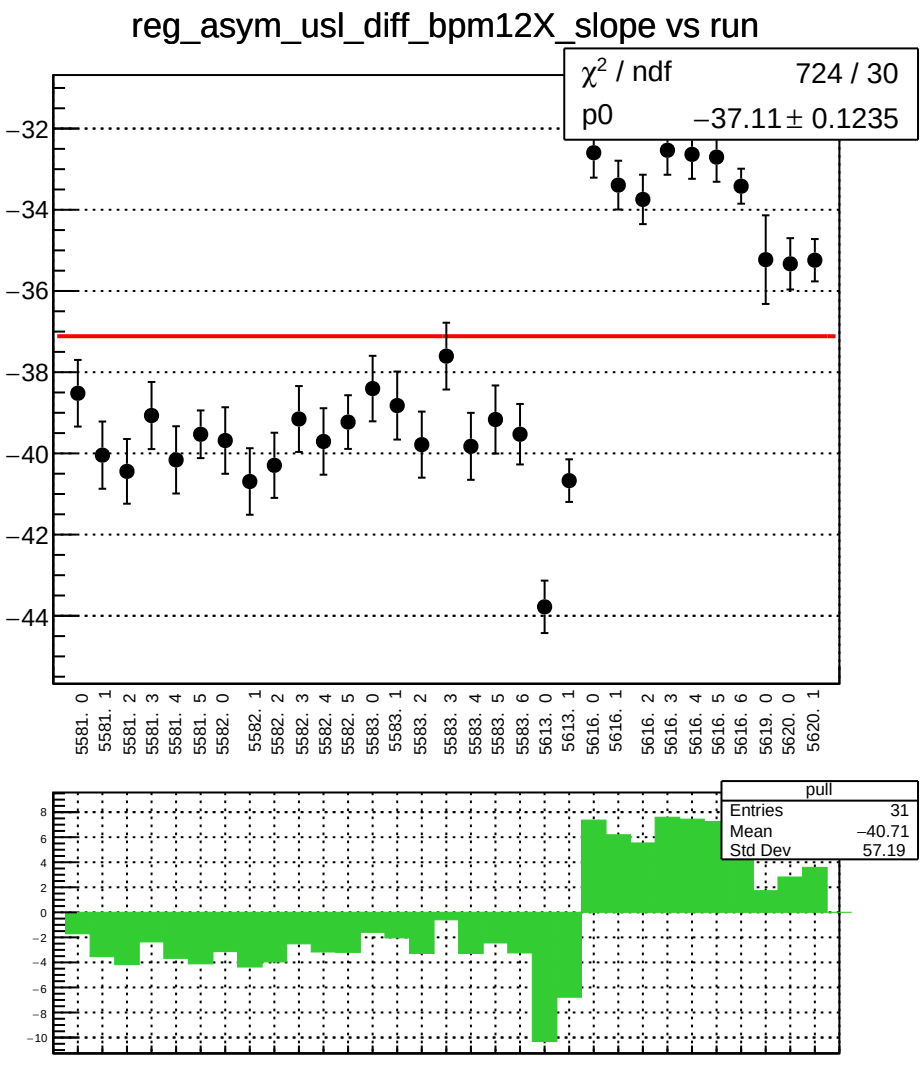

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 12.24 / 30
p0 7.756 ± 2.777
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −9.013
Std Dev 24.99
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.04969
Std Dev 0.6265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

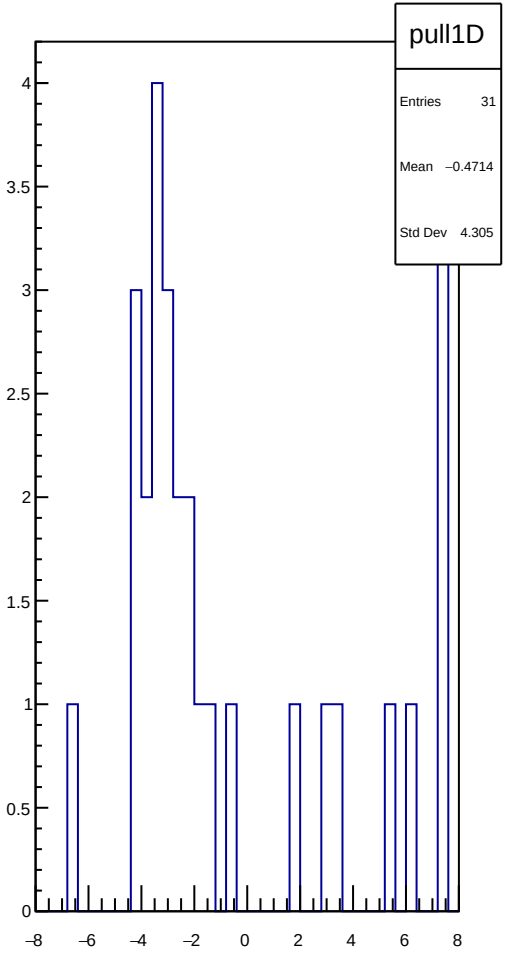

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 34.8 / 30
p0 10.15 ± 4.744
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 0.7732
Std Dev 12.94
4
3
2
1
0
−1
−2

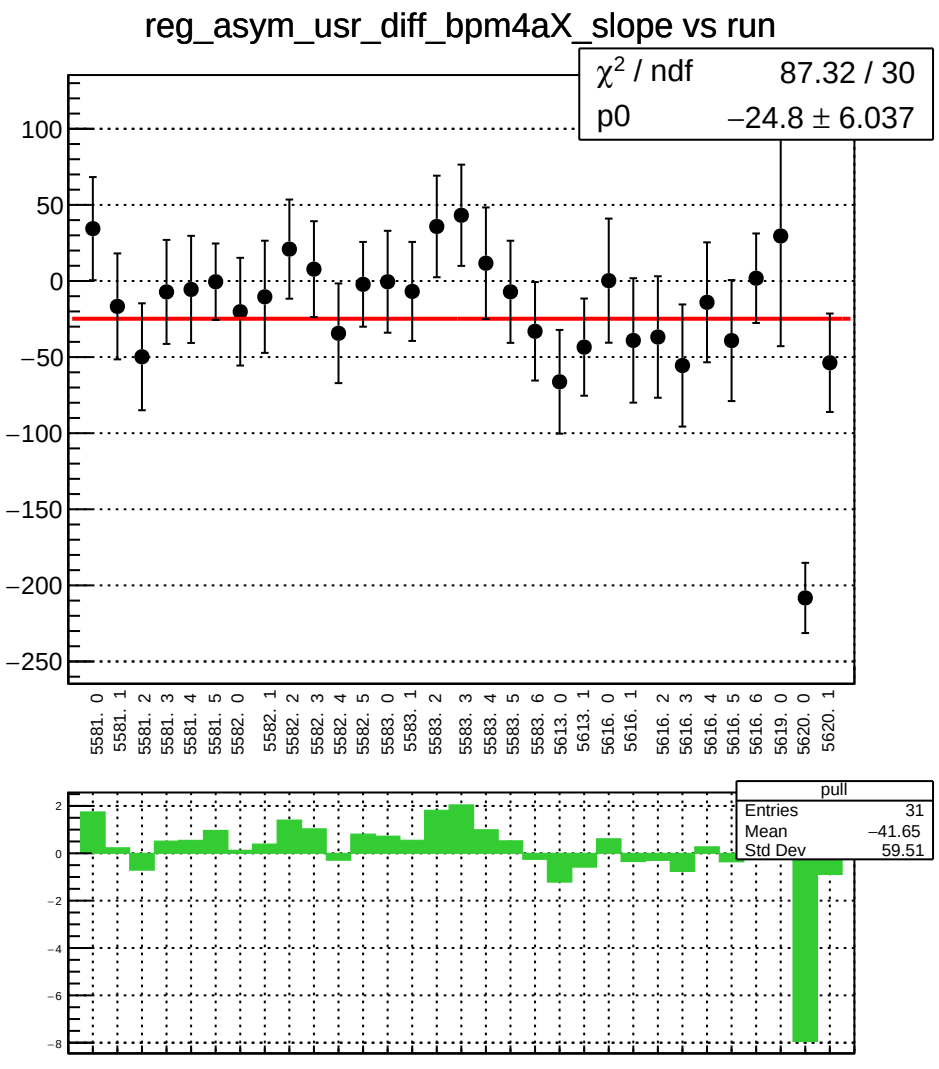

pull1D
Entries 31
Mean −0.09606
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

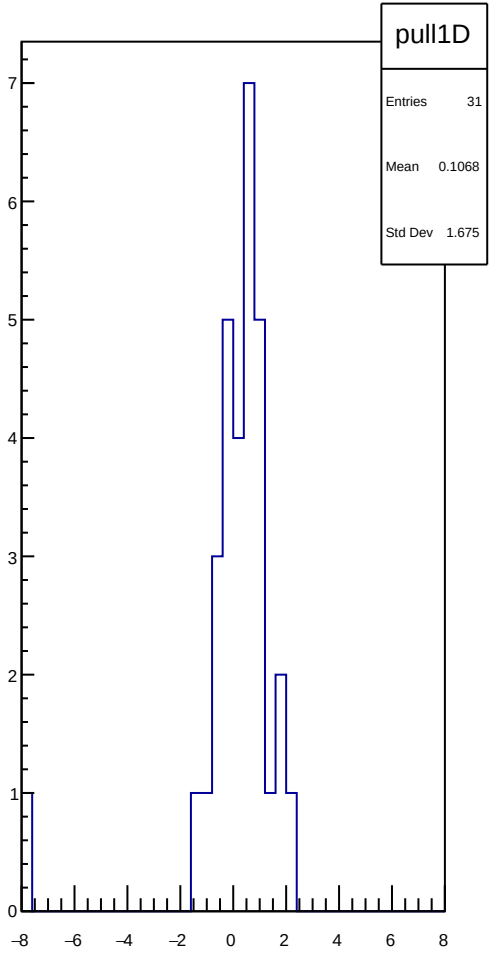

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 11.64 / 30
p0 8.246 ± 3.661
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1.106
Std Dev 13.19
1
0.5
0
−0.5
−1

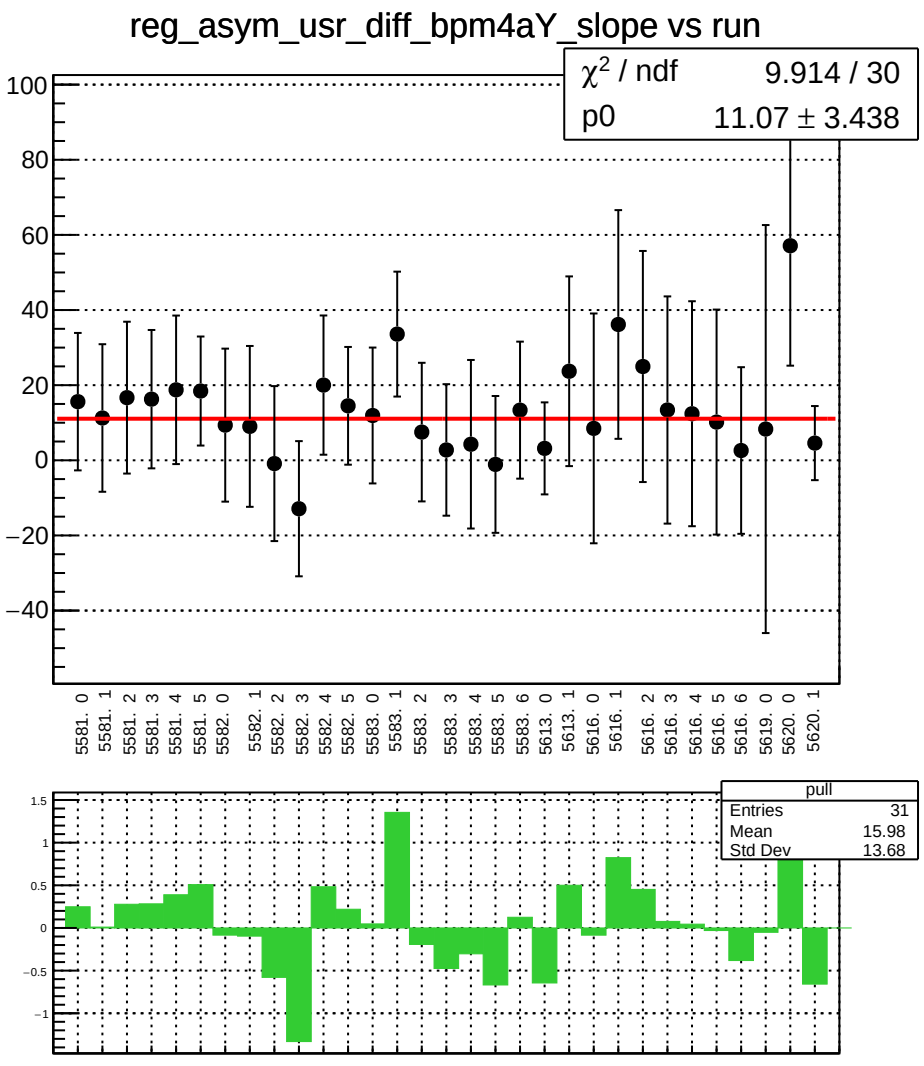

pull1D
Entries 31
Mean −0.04522
Std Dev 0.6111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

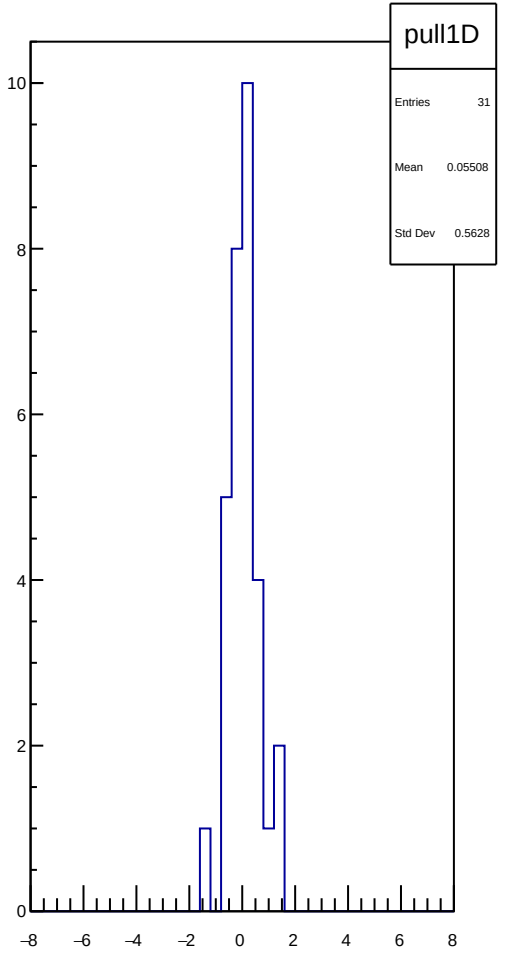

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 724 / 30
p0 −37.11 ± 0.1235
−32
−34
−36
−38
−40
−42
−44
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −40.71
Std Dev 57.19
8
6
4
2
0
−2
−4
−6
−8
−10

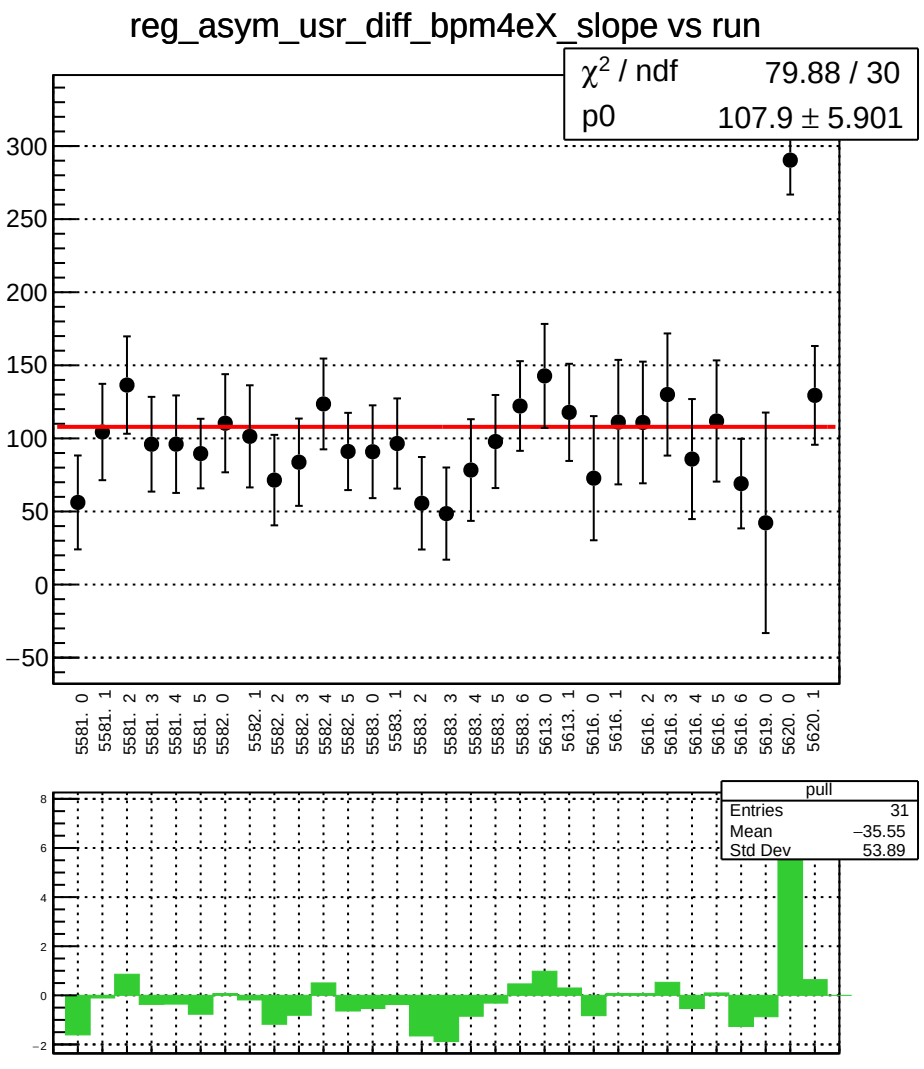

pull1D
Entries 31
Mean −0.4714
Std Dev 4.305
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

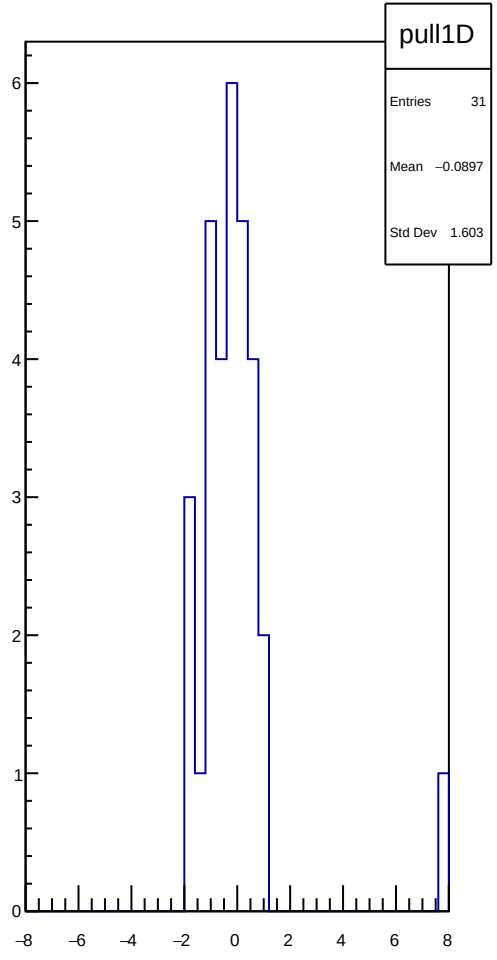

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 87.32 / 30
p0 −24.8 ± 6.037
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −41.65
Std Dev 59.51
2
0
−2
−4
−6
−8

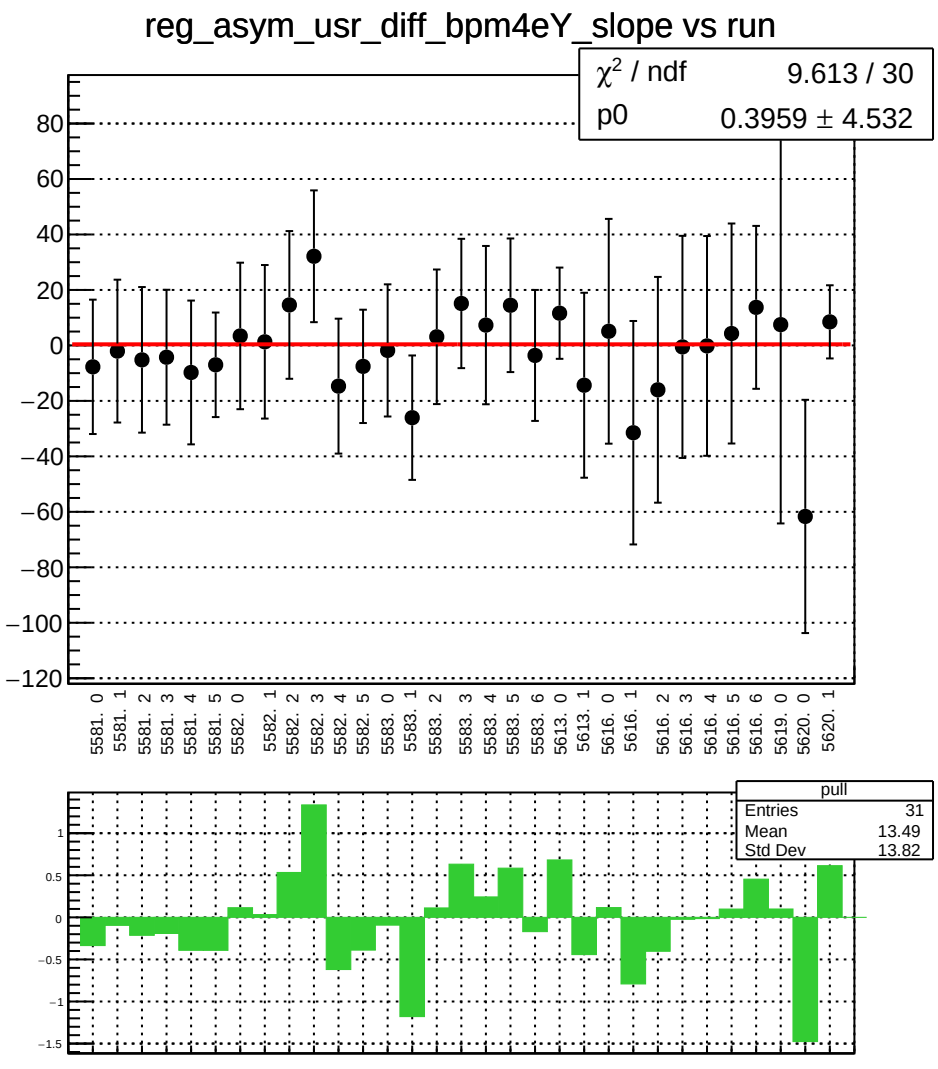

pull1D
Entries 31
Mean 0.1068
Std Dev 1.675
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

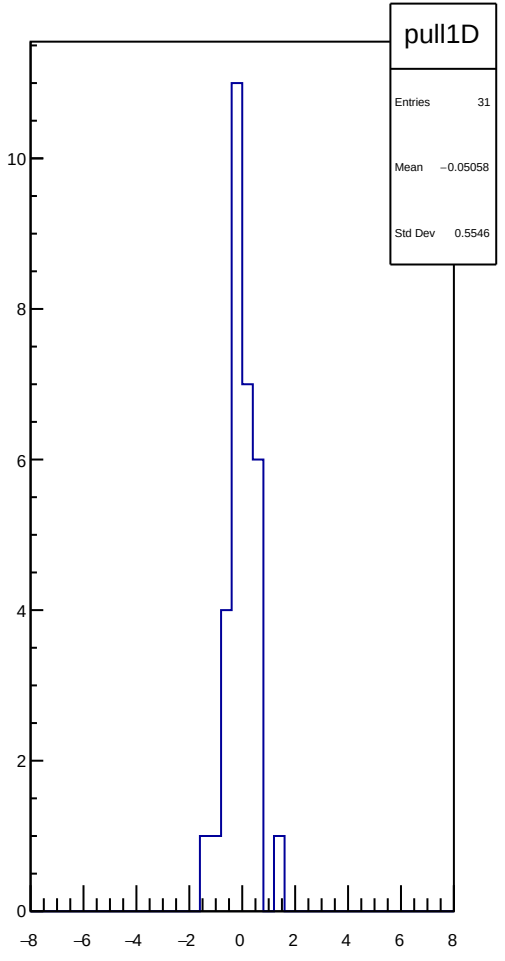

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.914 / 30
p0 11.07 ± 3.438
100
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.98
Std Dev 13.68
1.5
1
0.5
0
−0.5
−1

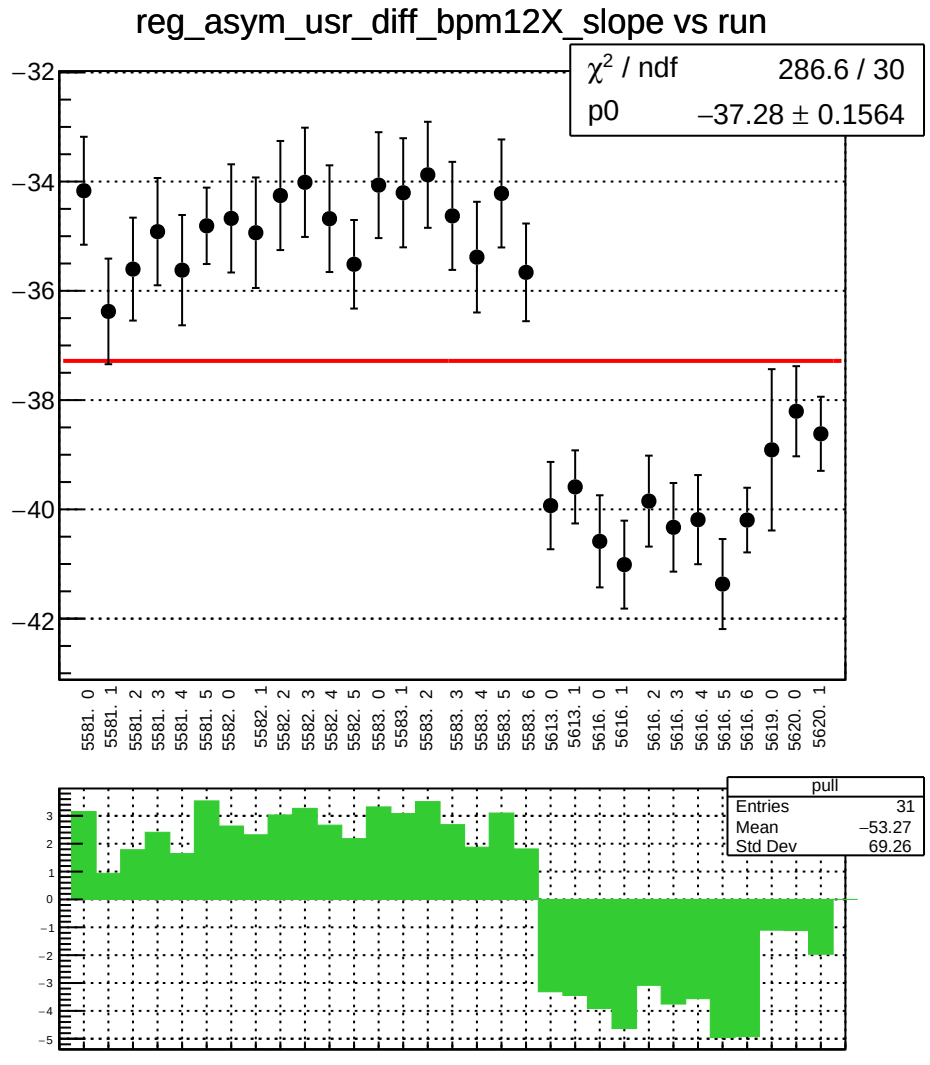

pull1D
Entries 31
Mean 0.05508
Std Dev 0.5628
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

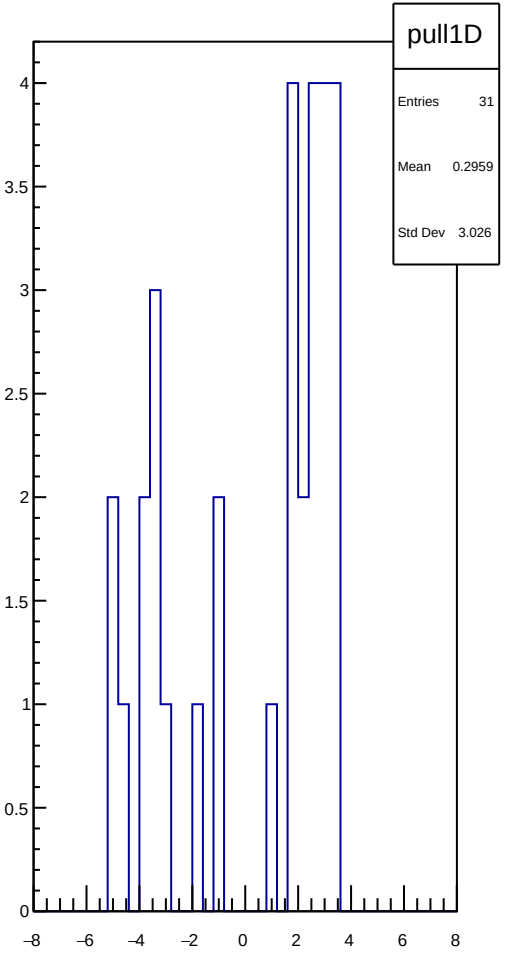

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 79.88 / 30
p0 107.9 ± 5.901
300
250
200
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −35.55
Std Dev 53.89
8
6
4
2
0
−2

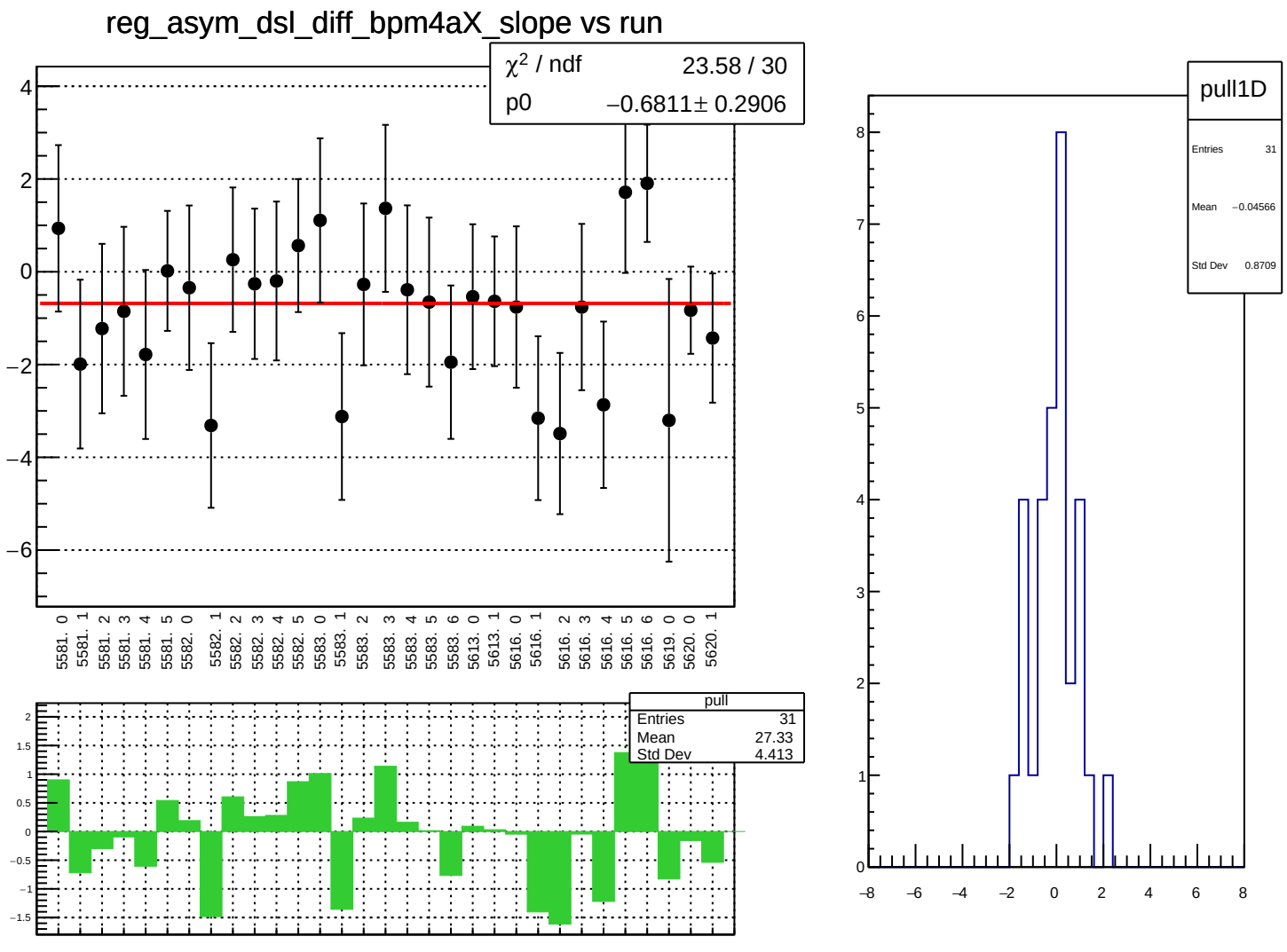

pull1D
Entries 31
Mean −0.0897
Std Dev 1.603
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

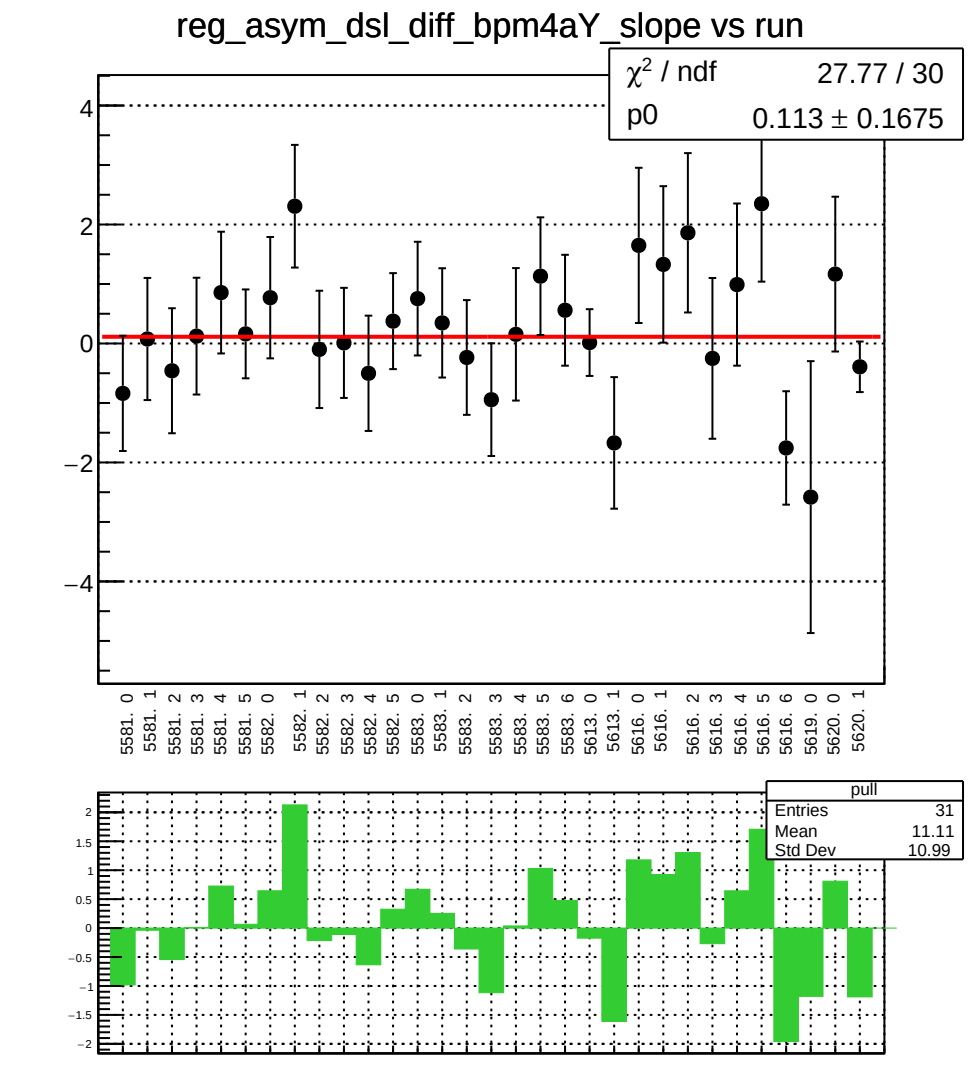

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 9.613 / 30
p0 0.3959 ± 4.532
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 13.49
Std Dev 13.82
1
0.5
0
−0.5
−1
−1.5

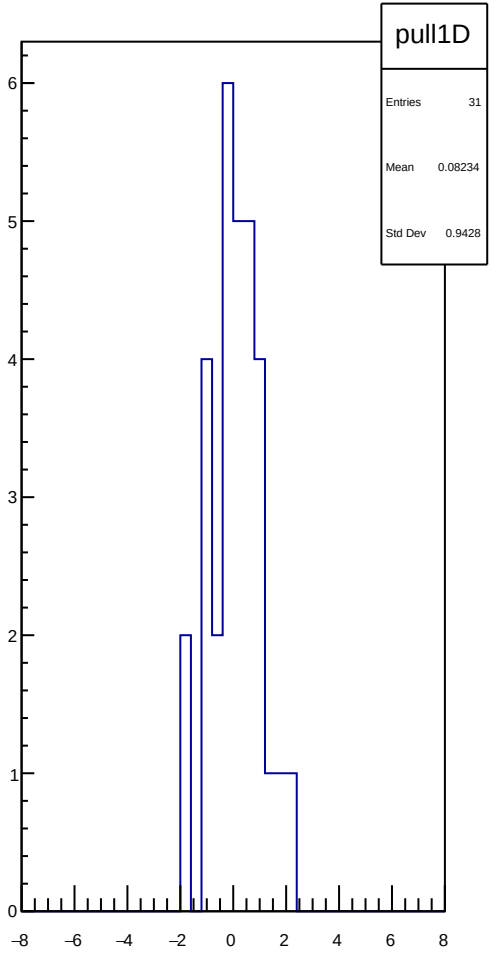

pull1D
Entries 31
Mean −0.05058
Std Dev 0.5546
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

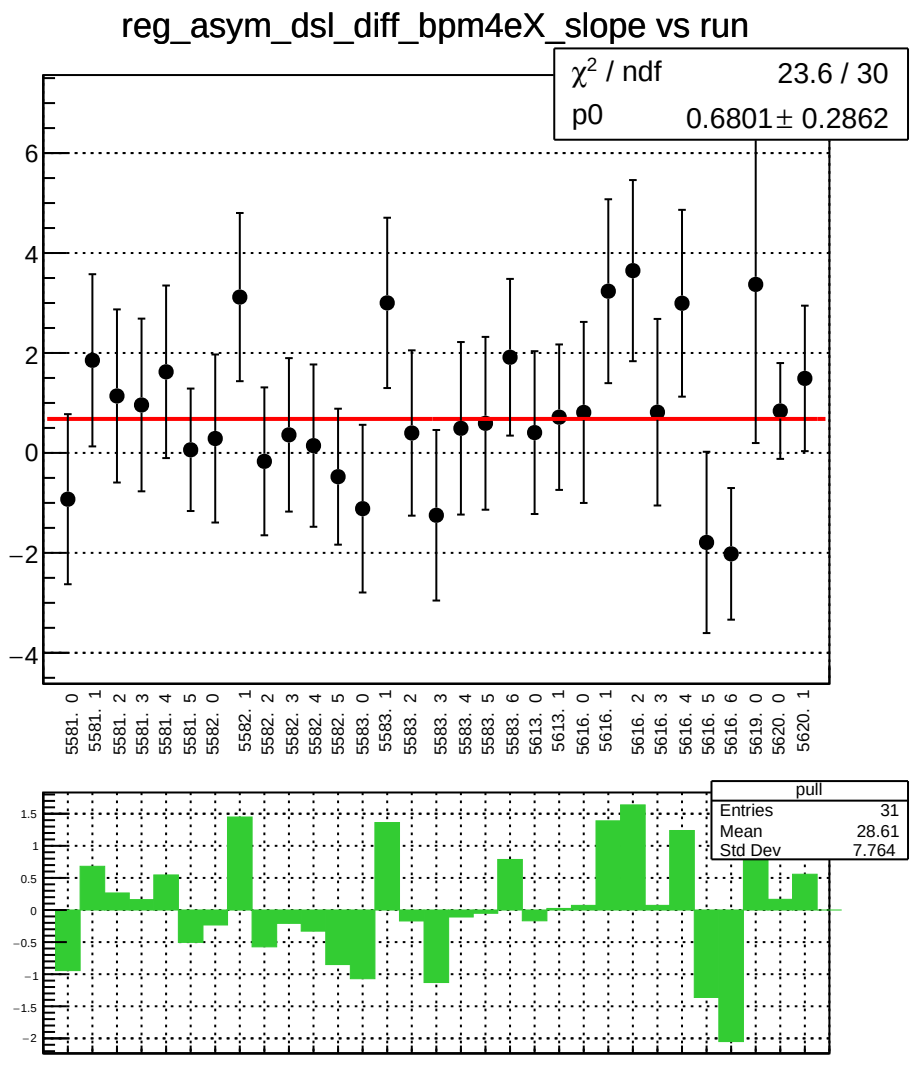

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 286.6 / 30
p0 −37.28 ± 0.1564
−32
−34
−36
−38
−40
−42
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −53.27
Std Dev 69.26
3
2
1
0
−1
−2
−3
−4
−5

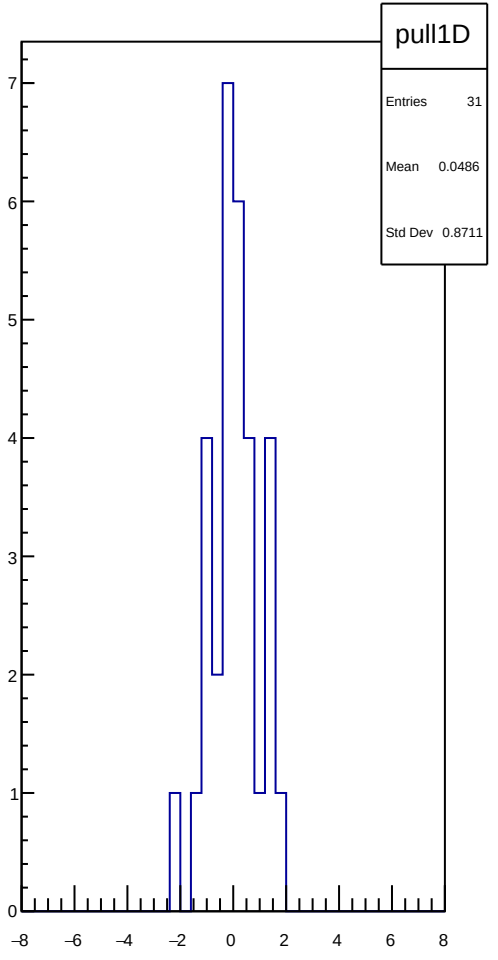

pull1D
Entries 31
Mean 0.2959
Std Dev 3.026
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

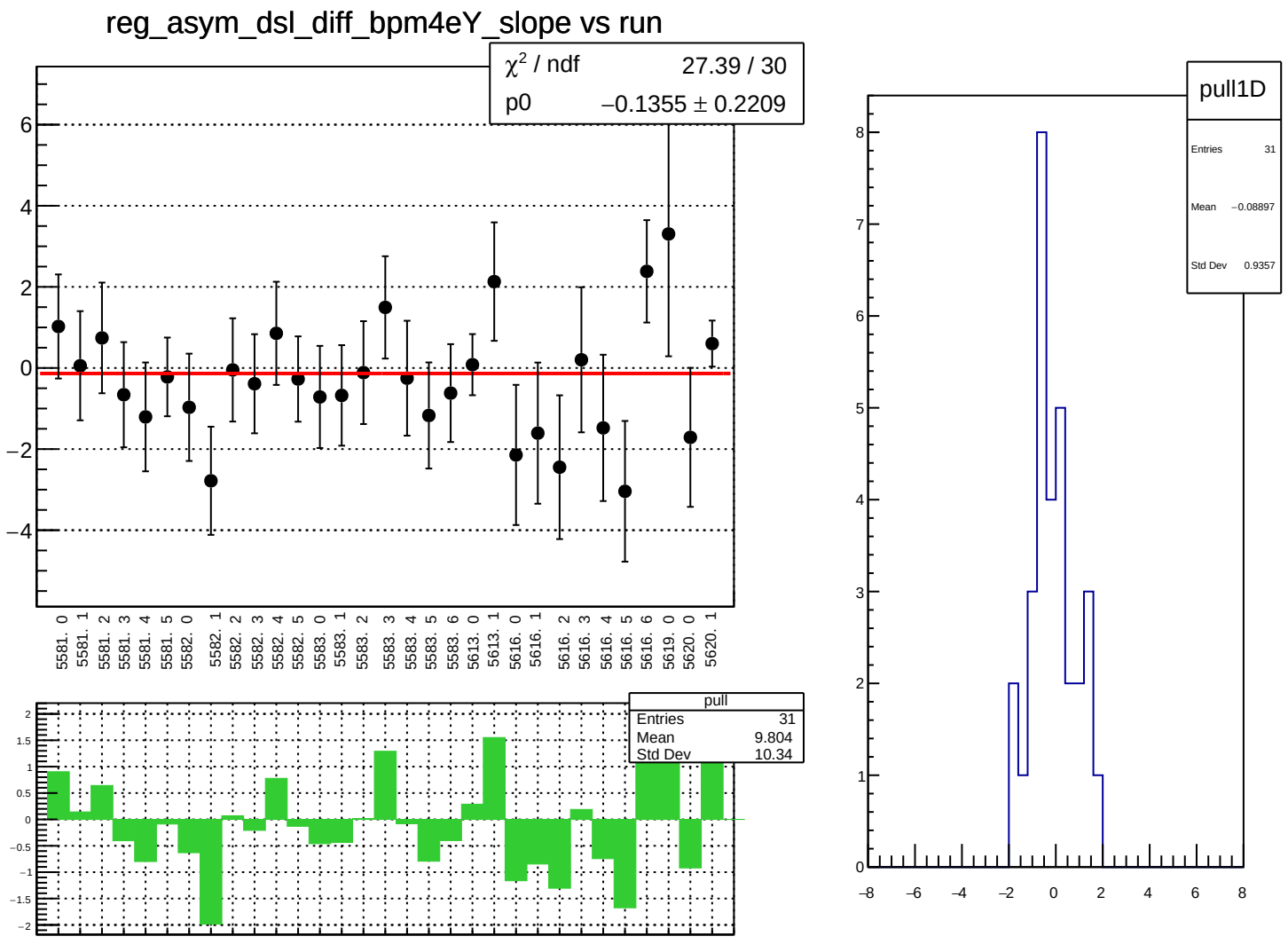

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 23.58 / 30
p0 −0.6811± 0.2906
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 27.33
Std Dev 4.413
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.04566
Std Dev 0.8709
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

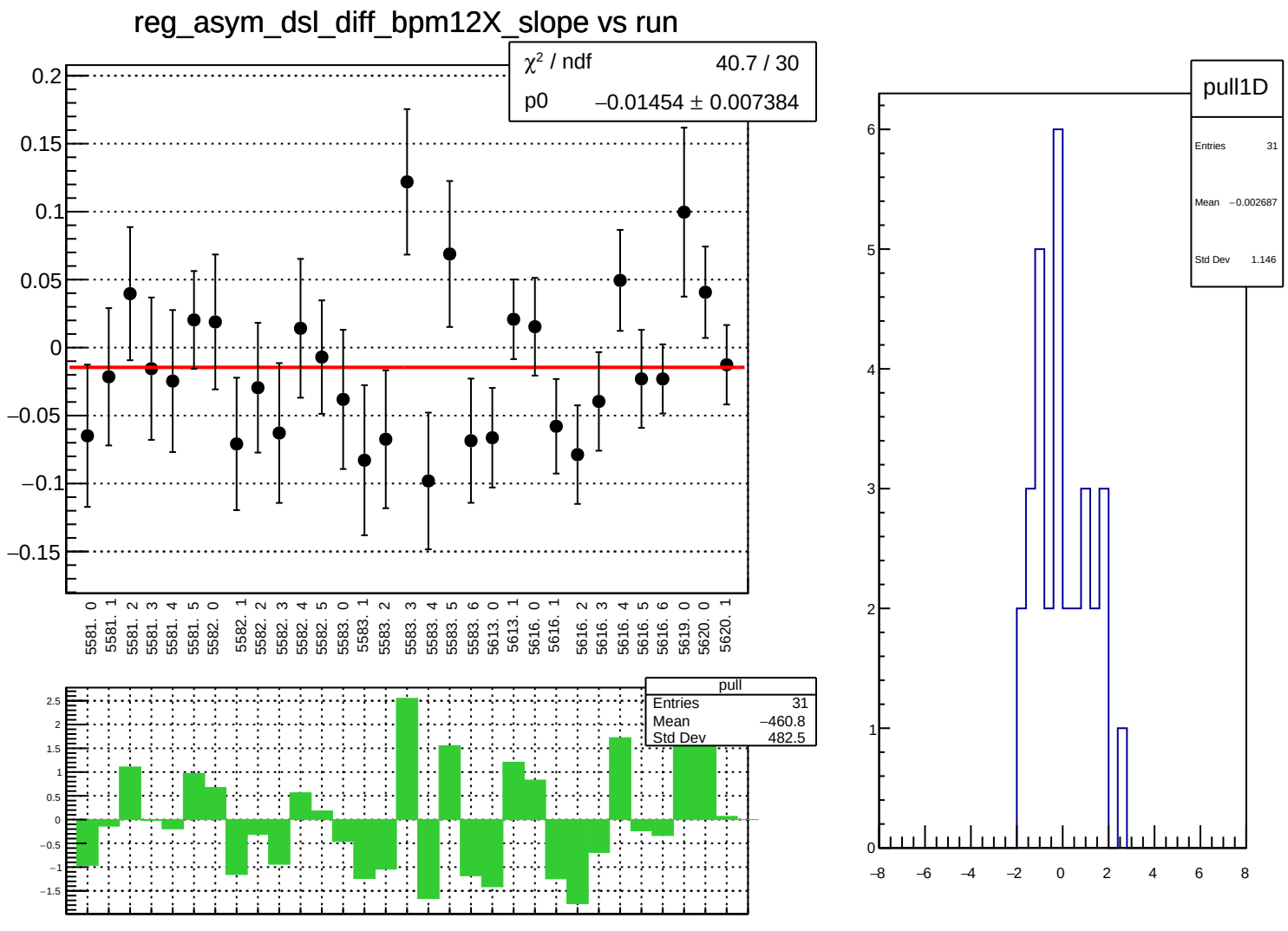

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 27.77 / 30
p0 0.113 ± 0.1675
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 11.11
Std Dev 10.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

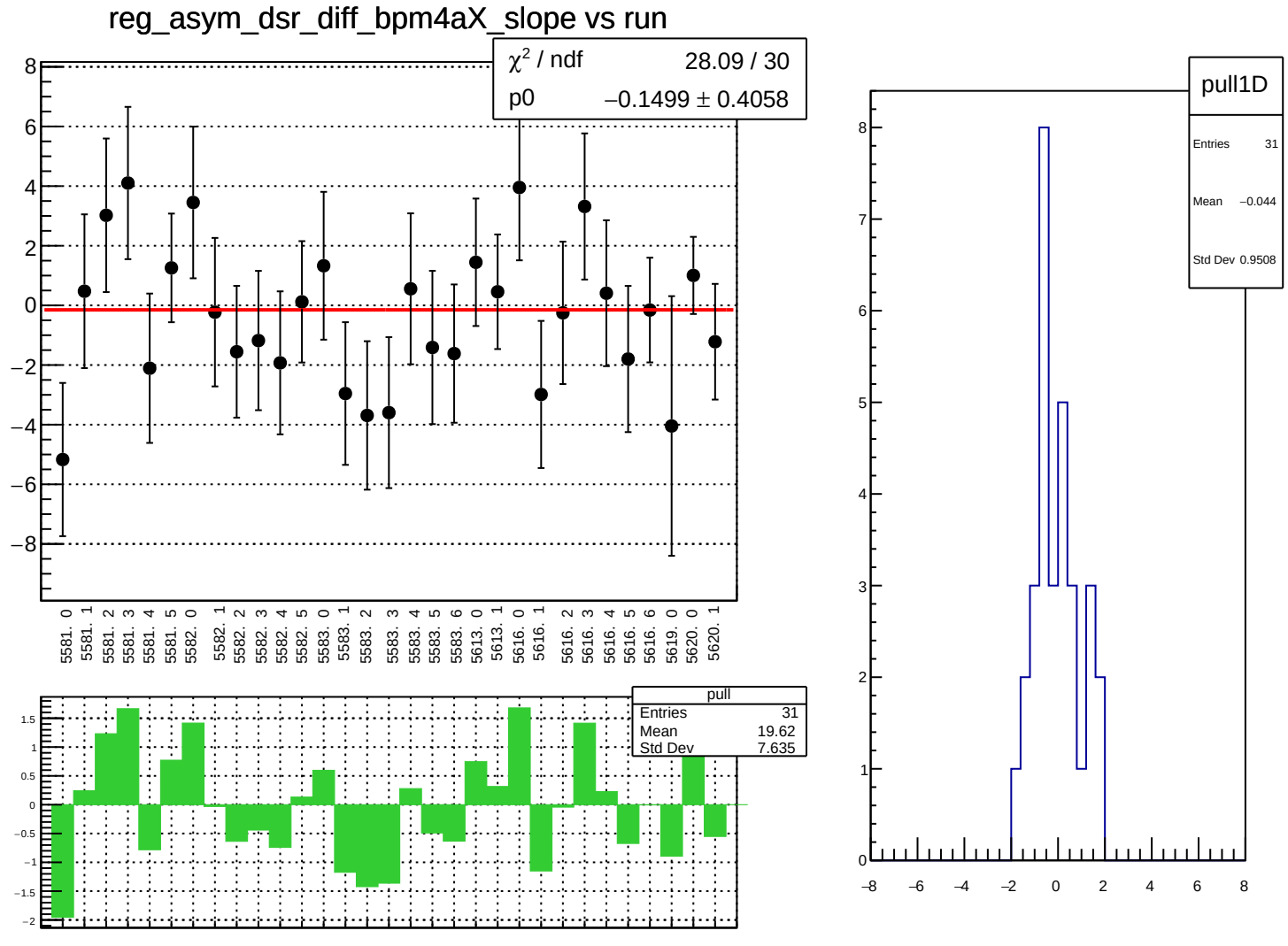

pull1D
Entries 31
Mean 0.08234
Std Dev 0.9428
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

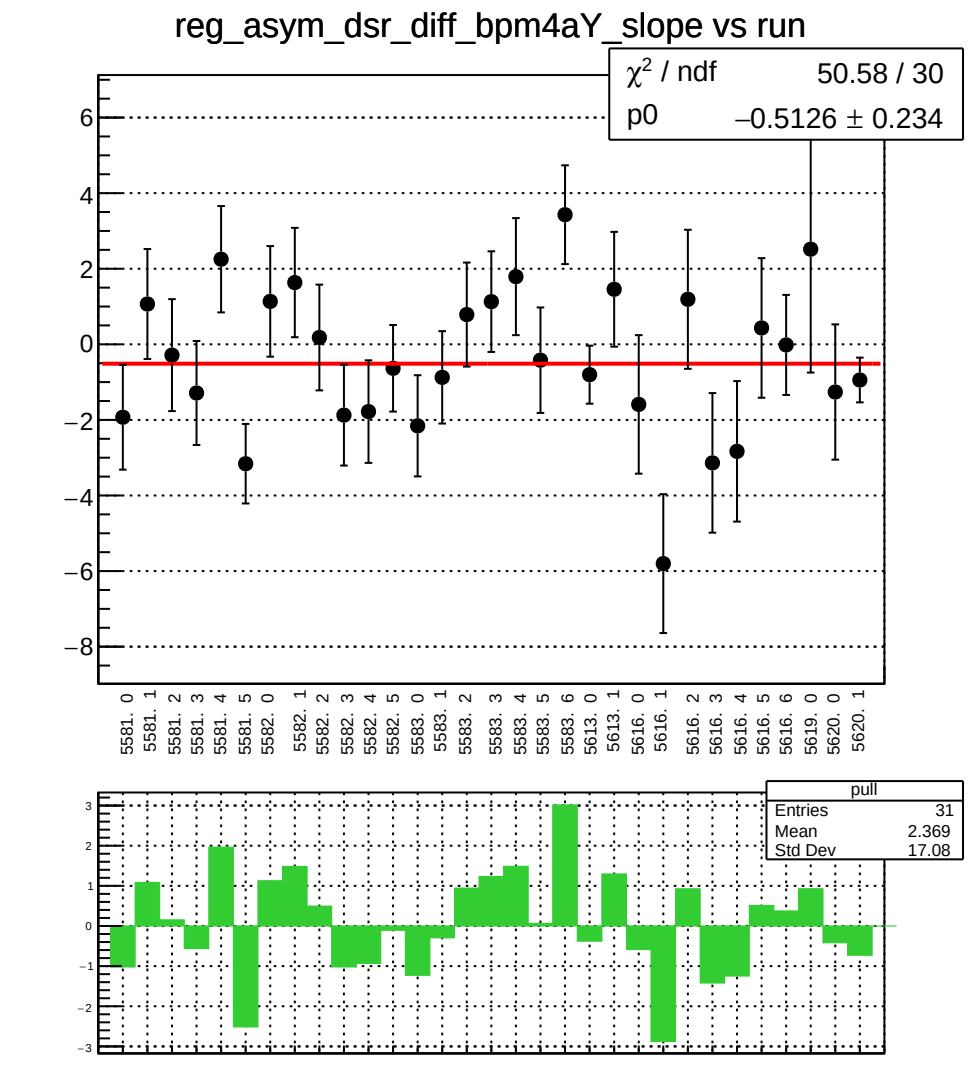

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 23.6 / 30
p0 0.6801 ± 0.2862
6
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 28.61
Std Dev 7.764
1.5
1
0.5
0
−0.5
−1
−1.5
−2

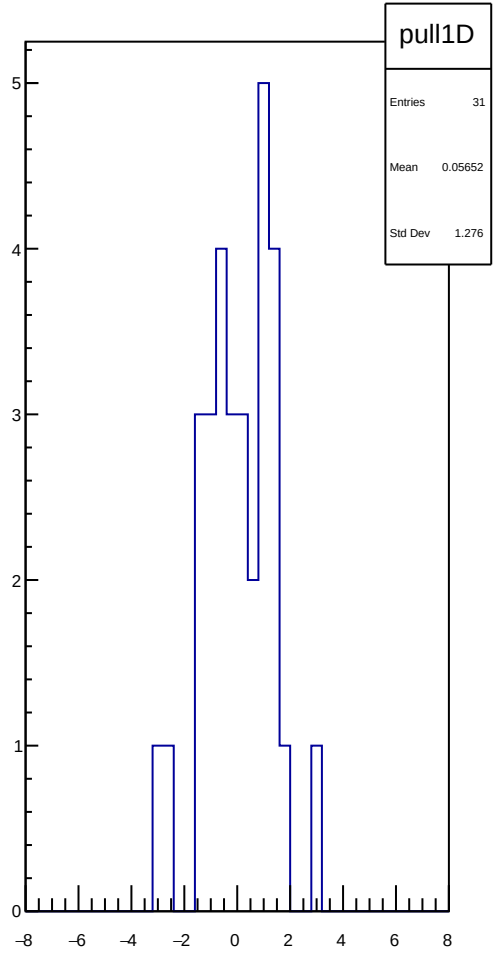

pull1D
Entries 31
Mean 0.0486
Std Dev 0.8711
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

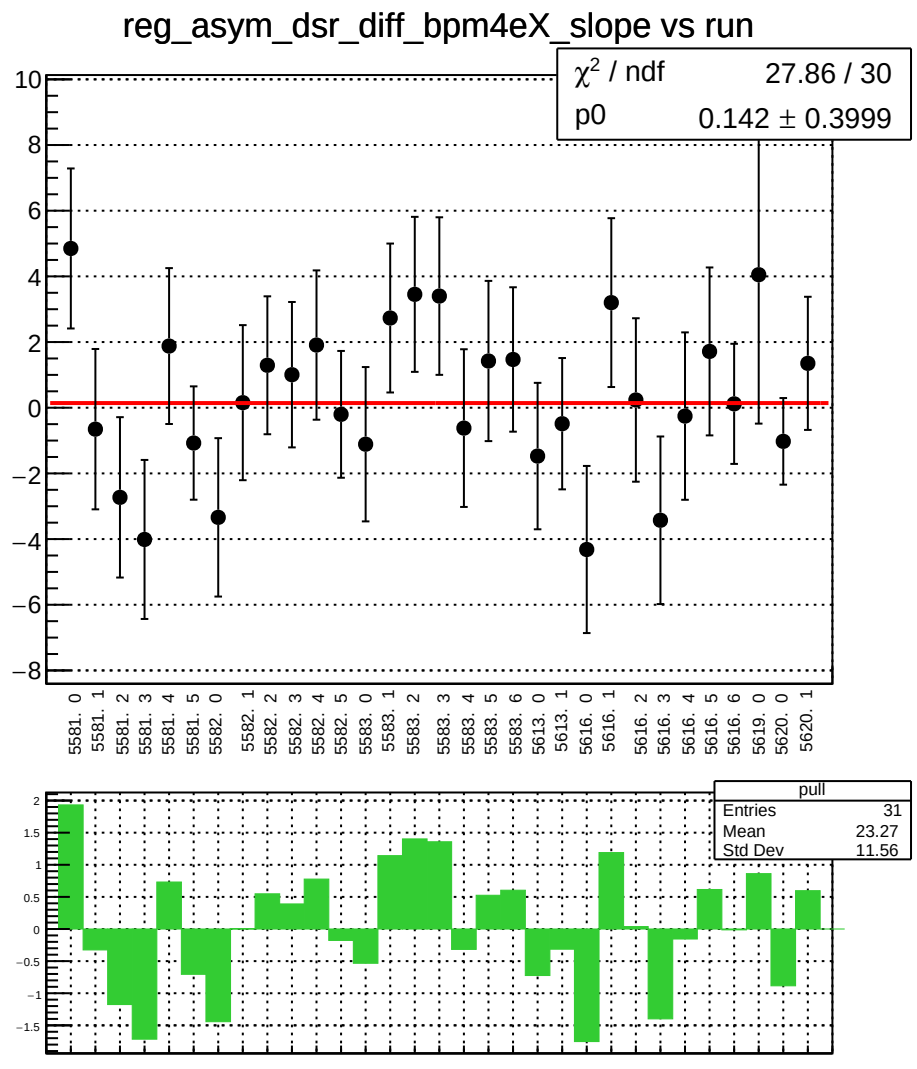

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 27.39 / 30
p0 −0.1355 ± 0.2209
6
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 9.804
Std Dev 10.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.08897
Std Dev 0.9357
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

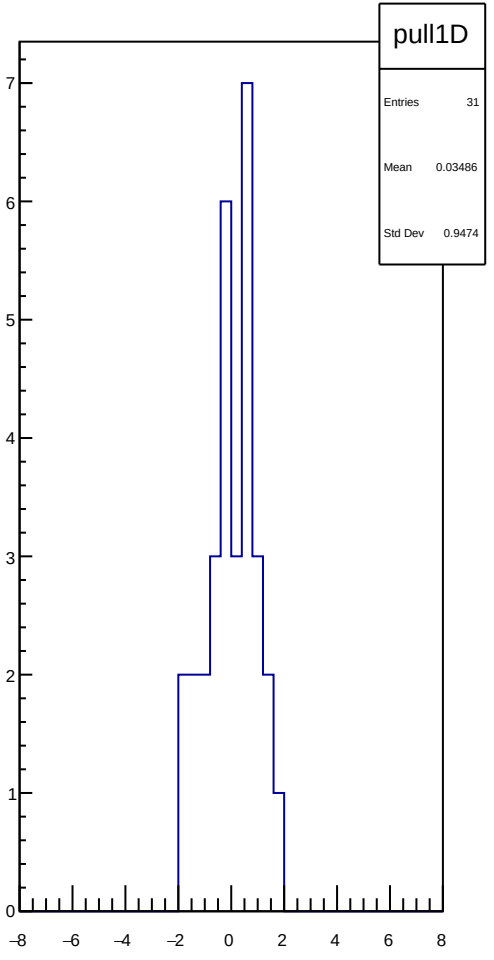

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 40.7 / 30
p0 −0.01454 ± 0.007384
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −460.8
Std Dev 482.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.002687
Std Dev 1.146
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

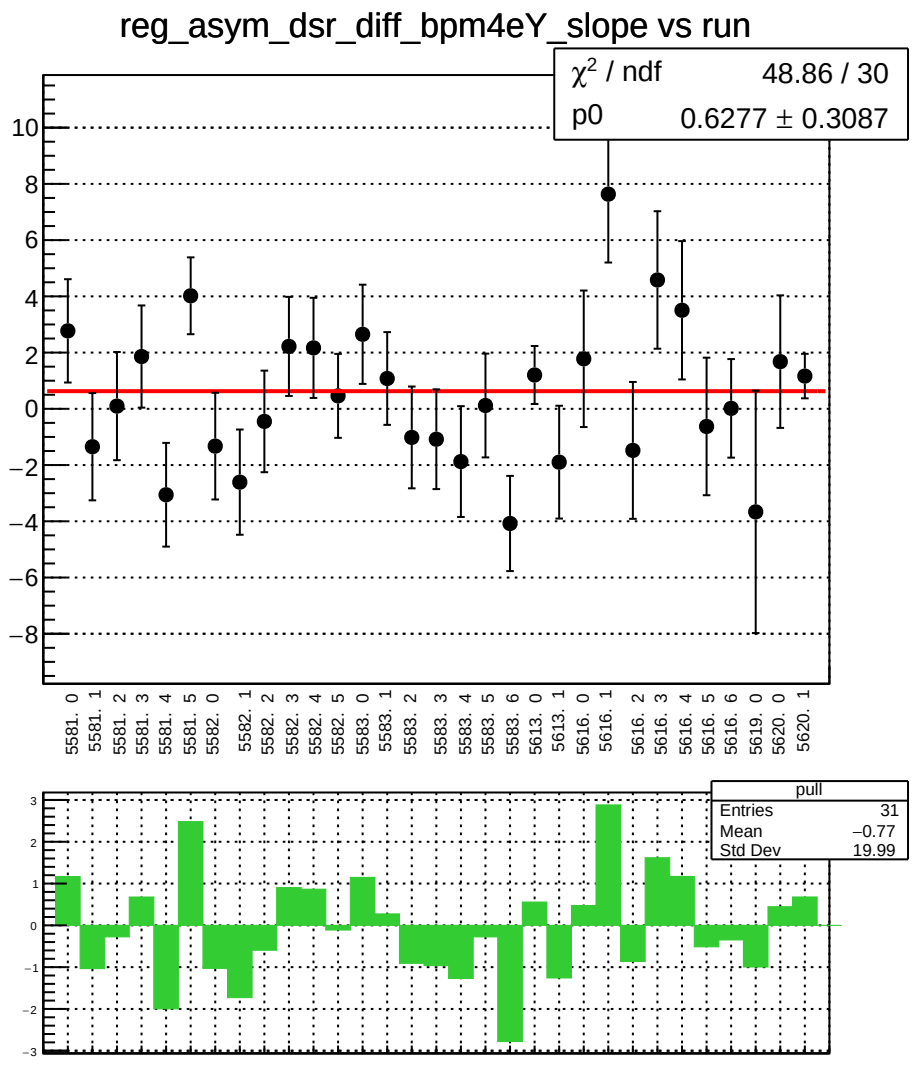

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 28.09 / 30
p0 −0.1499 ± 0.4058
pull
Entries 31
Mean 19.62
Std Dev 7.635
pull1D
Entries 31
Mean −0.044
Std Dev 0.9508

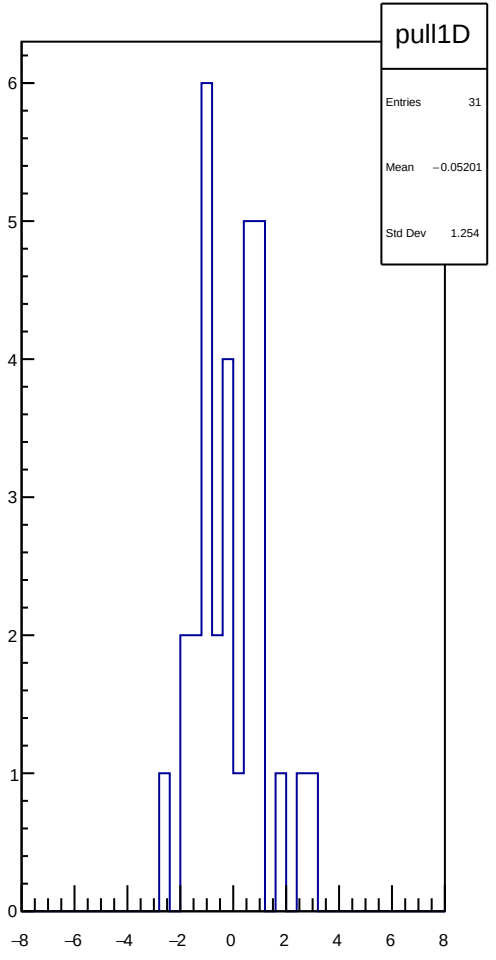

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 50.58 / 30
p0 −0.5126 ± 0.234
pull
Entries 31
Mean 2.369
Std Dev 17.08

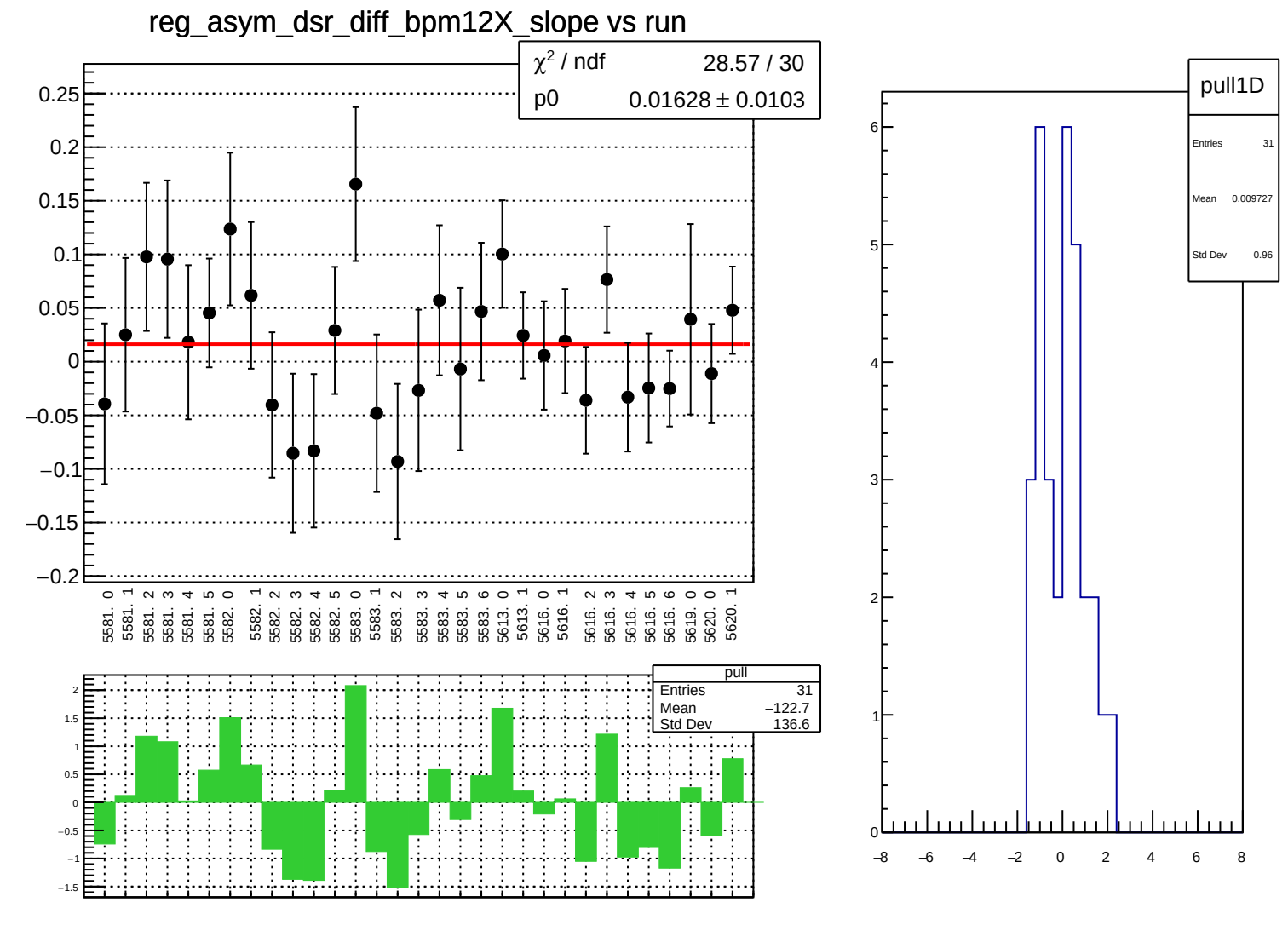

pull1D
Entries 31
Mean 0.05652
Std Dev 1.276

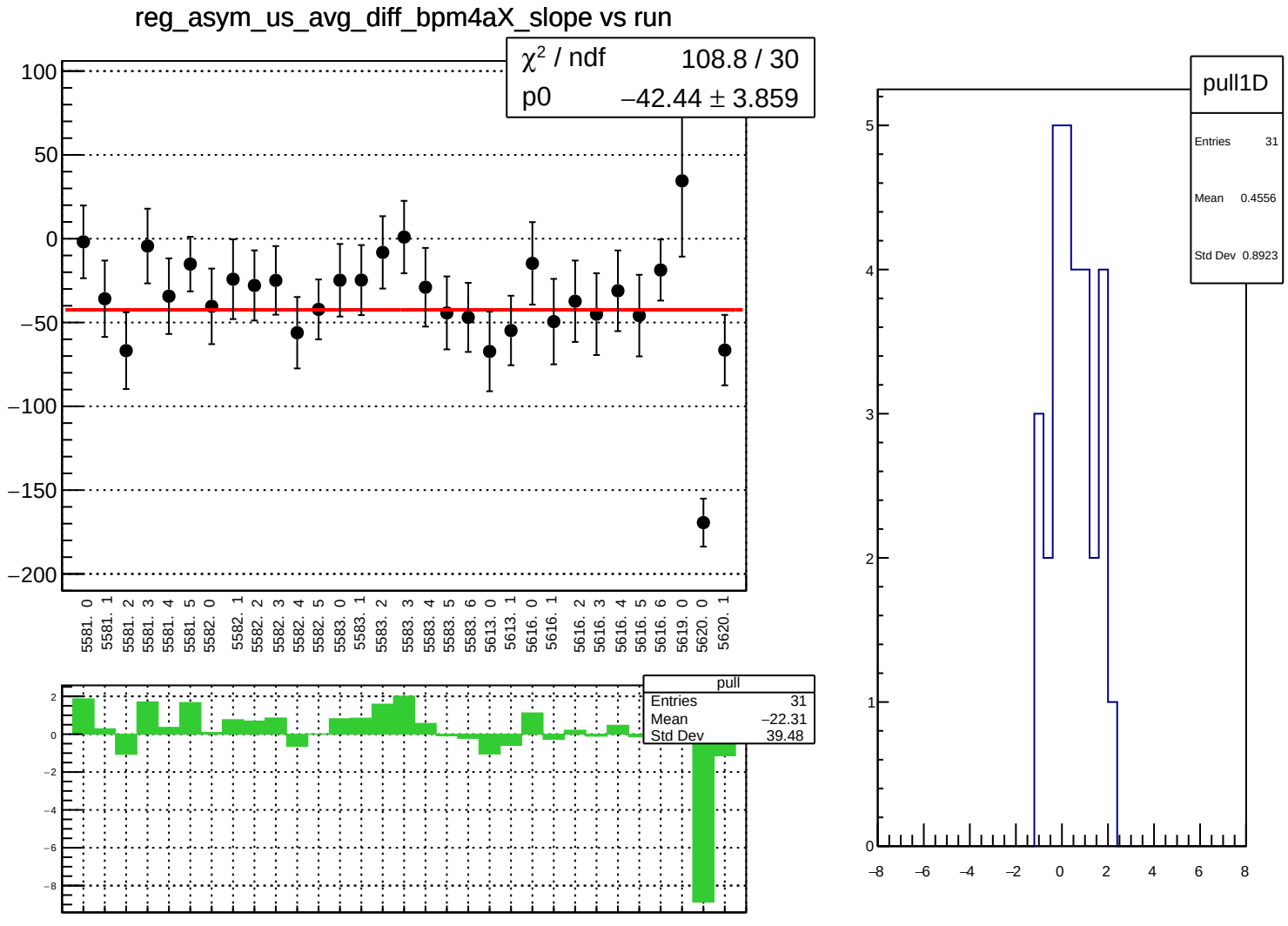

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 27.86 / 30
p0 0.142 ± 0.3999
pull
Entries 31
Mean 23.27
Std Dev 11.56

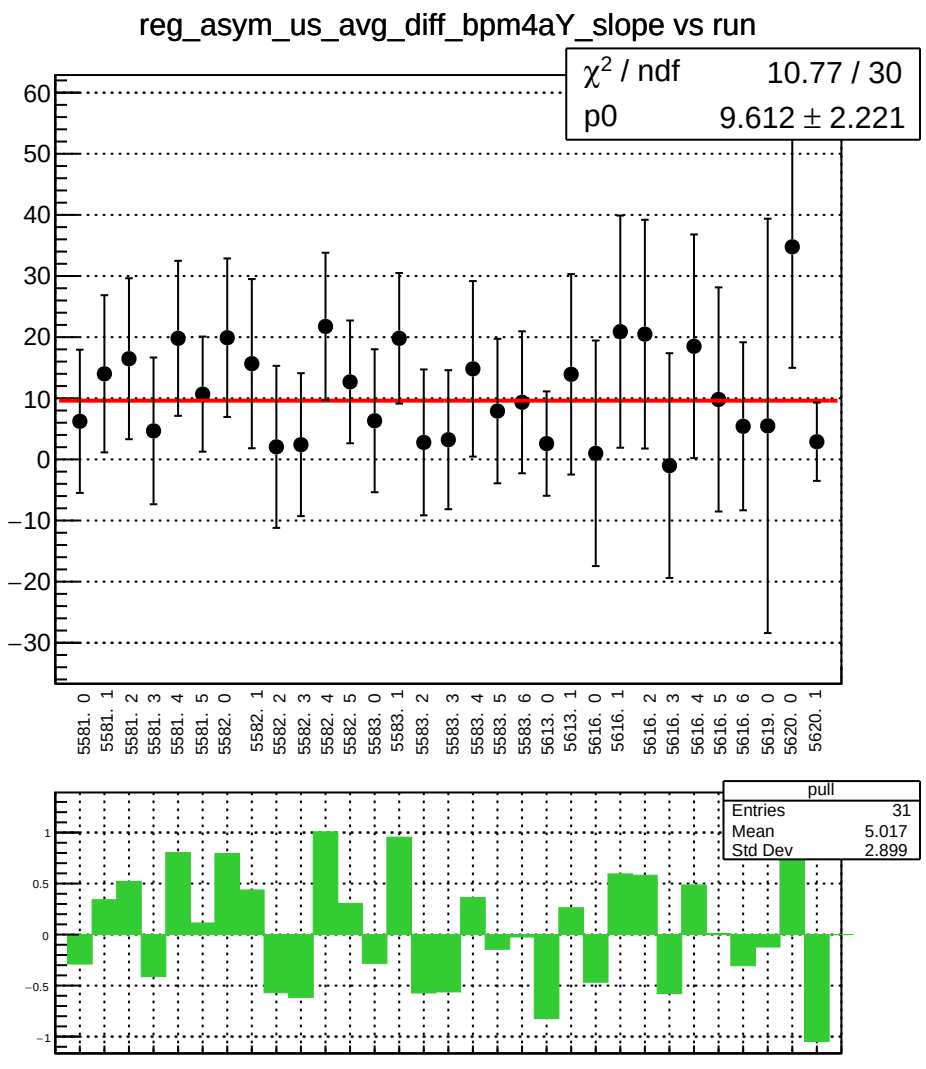

pull1D
Entries 31
Mean 0.03486
Std Dev 0.9474

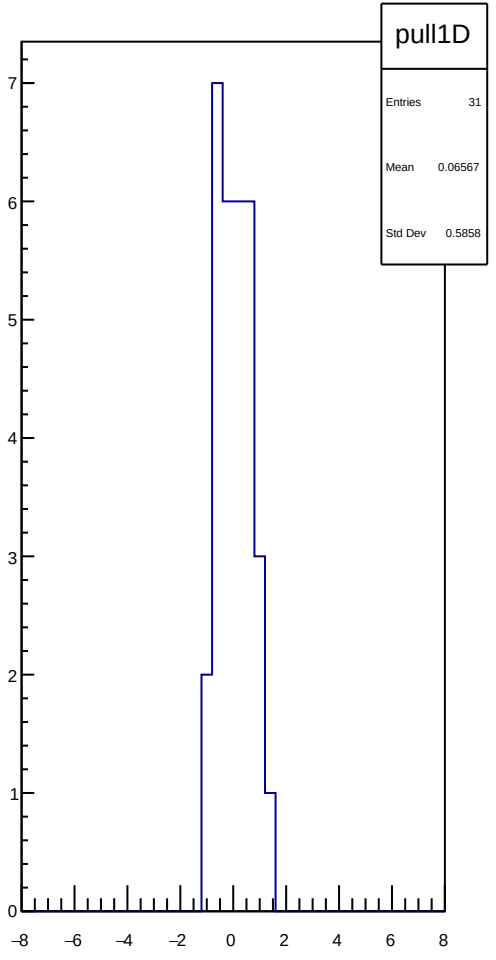

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 48.86 / 30
p0 0.6277 ± 0.3087
pull
Entries 31
Mean −0.77
Std Dev 19.99

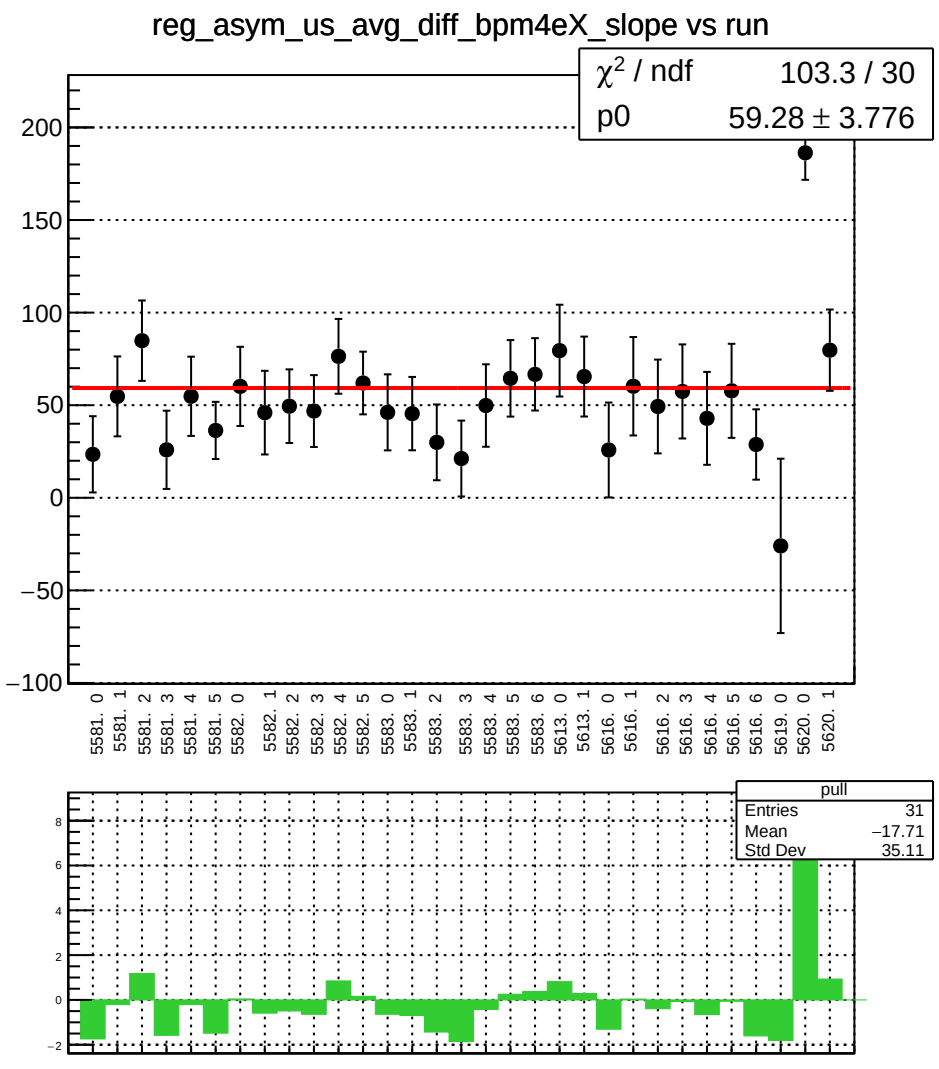

pull1D
Entries 31
Mean −0.05201
Std Dev 1.254

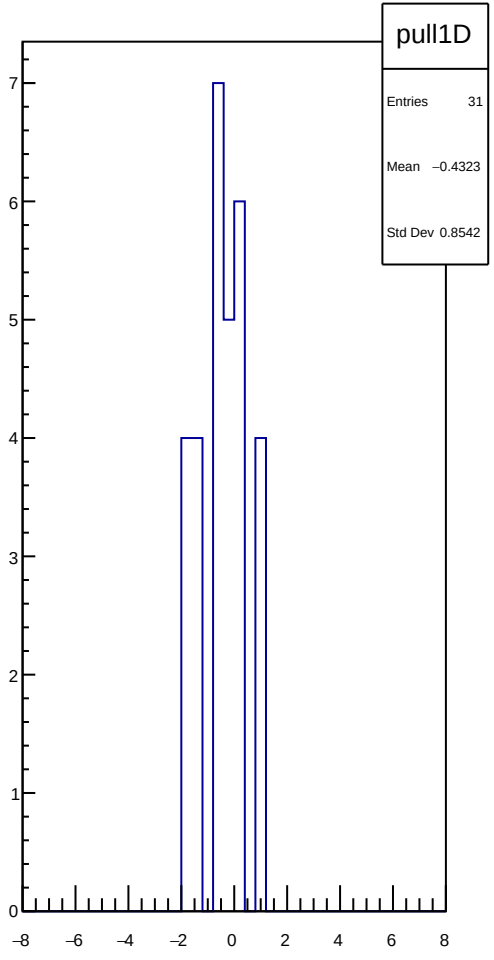

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 28.57 / 30
p0 0.01628 ± 0.0103
pull
Entries 31
Mean −122.7
Std Dev 136.6
pull1D
Entries 31
Mean 0.009727
Std Dev 0.96

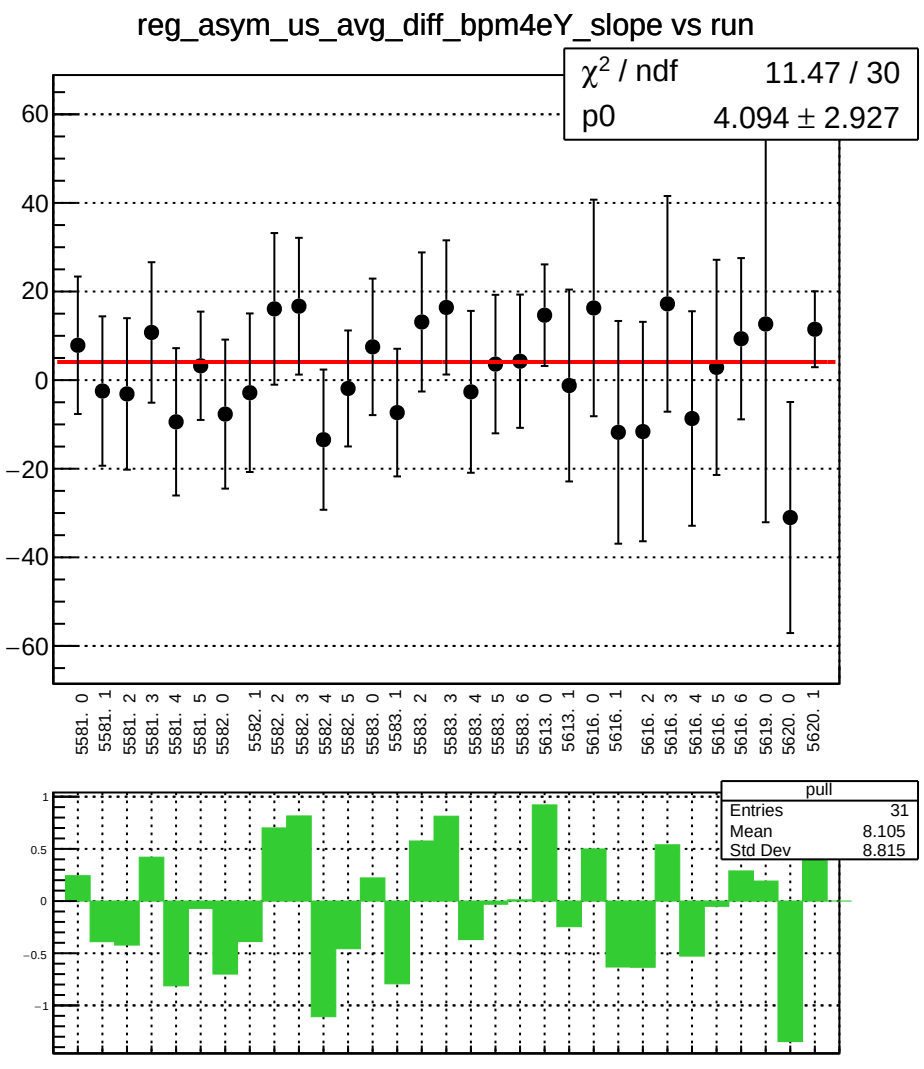

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 108.8 / 30
p0 −42.44 ± 3.859
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −22.31
Std Dev 39.48
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean 0.4556
Std Dev 0.8923
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

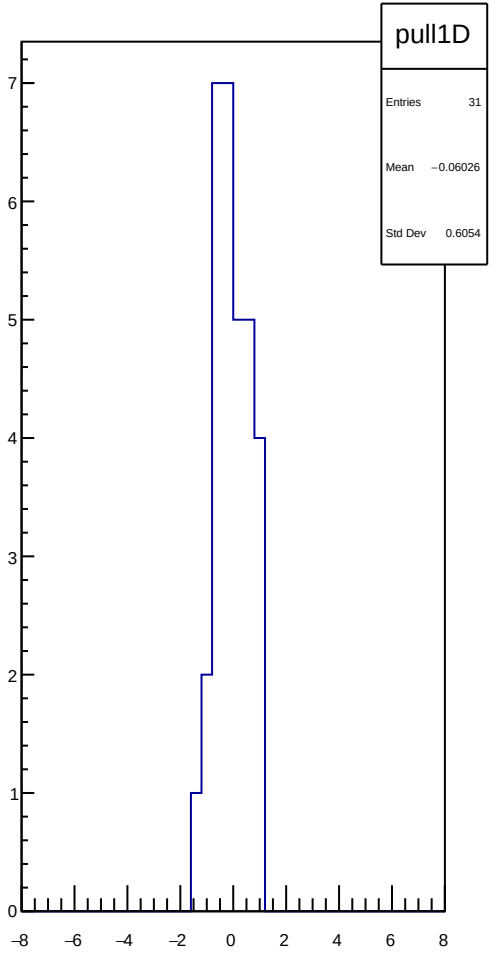

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.77 / 30
p0 9.612 ± 2.221
60
50
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 5.017
Std Dev 2.899
1
0.5
0
−0.5
−1

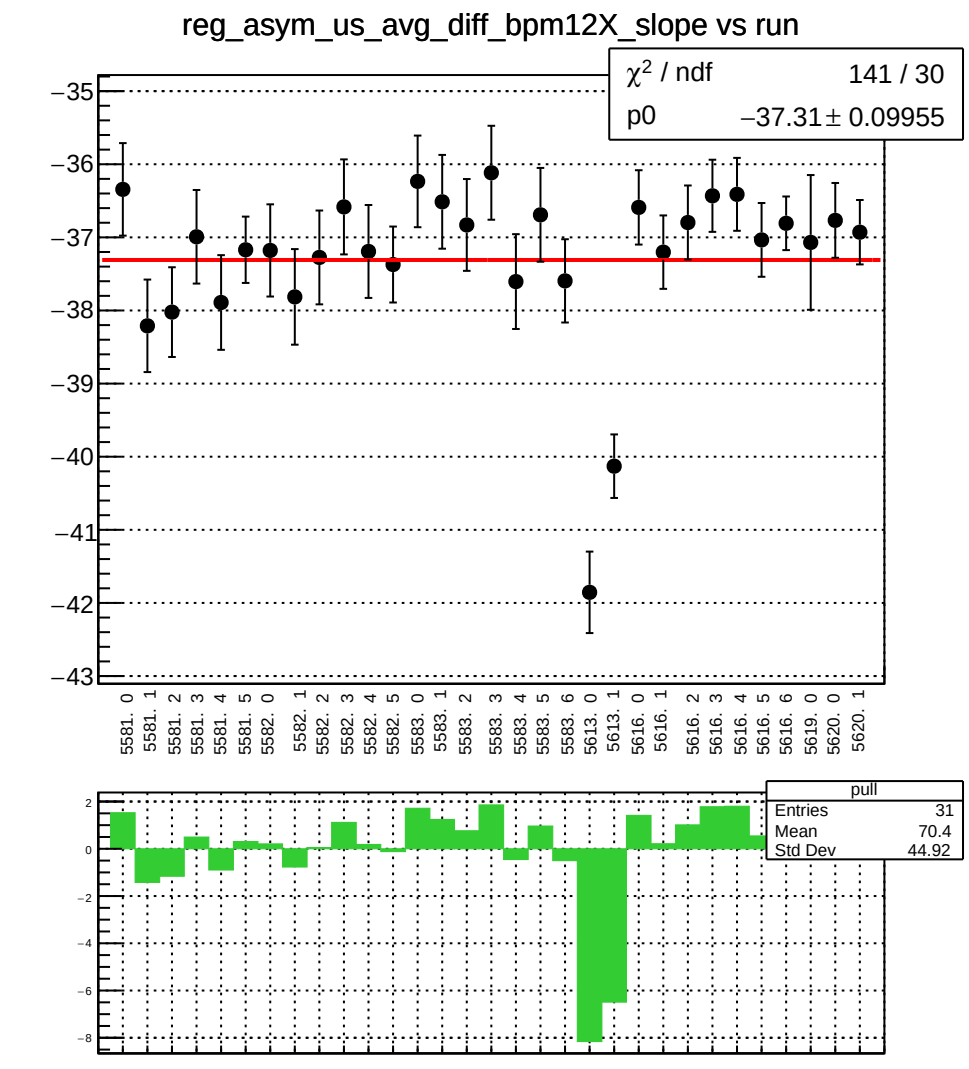

pull1D
Entries 31
Mean 0.06567
Std Dev 0.5858
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

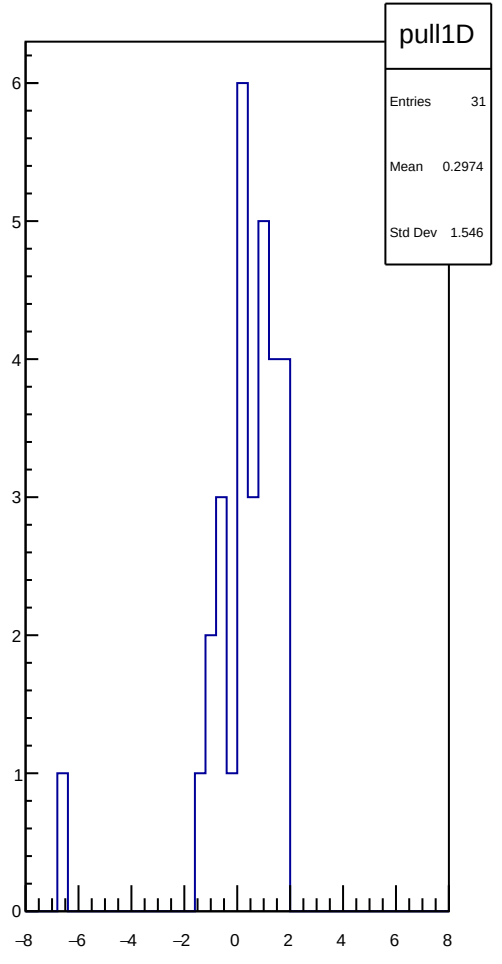

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.3 / 30
p0 59.28 ± 3.776
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −17.71
Std Dev 35.11
8
6
4
2
0
−2

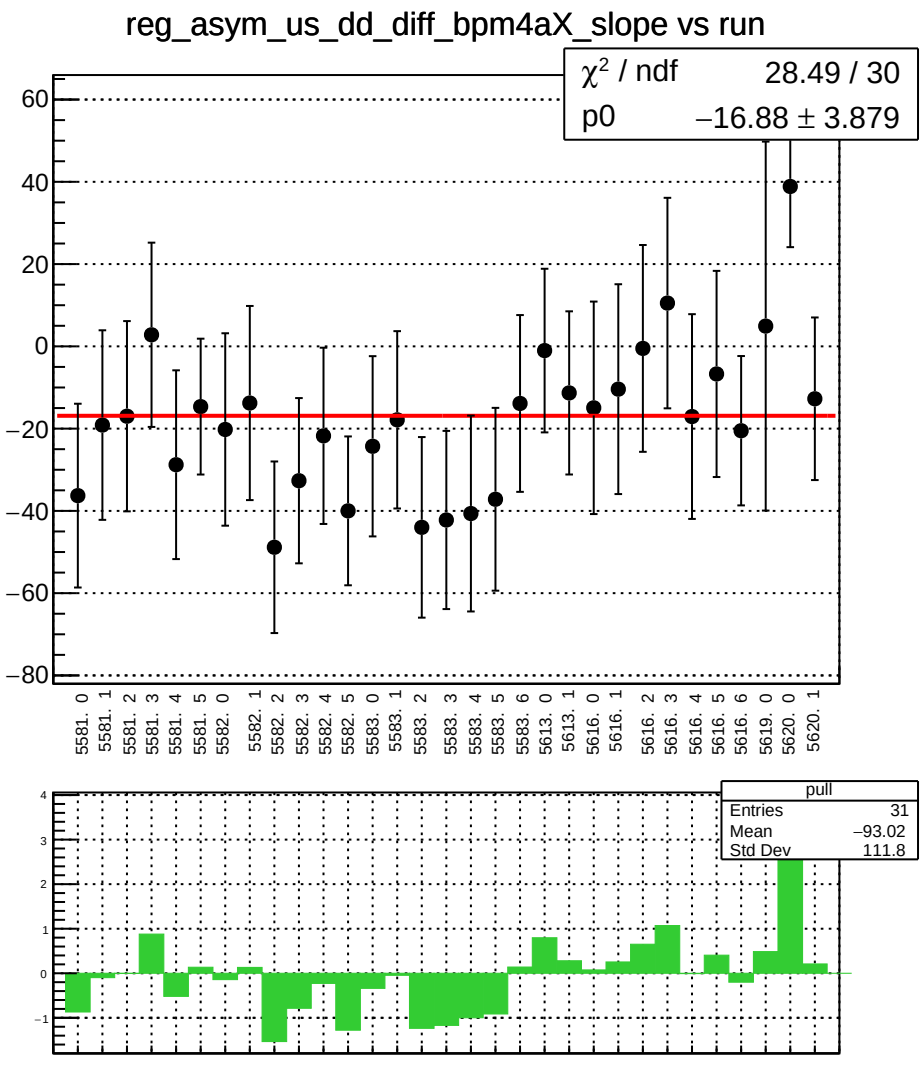

pull1D
Entries 31
Mean −0.4323
Std Dev 0.8542
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

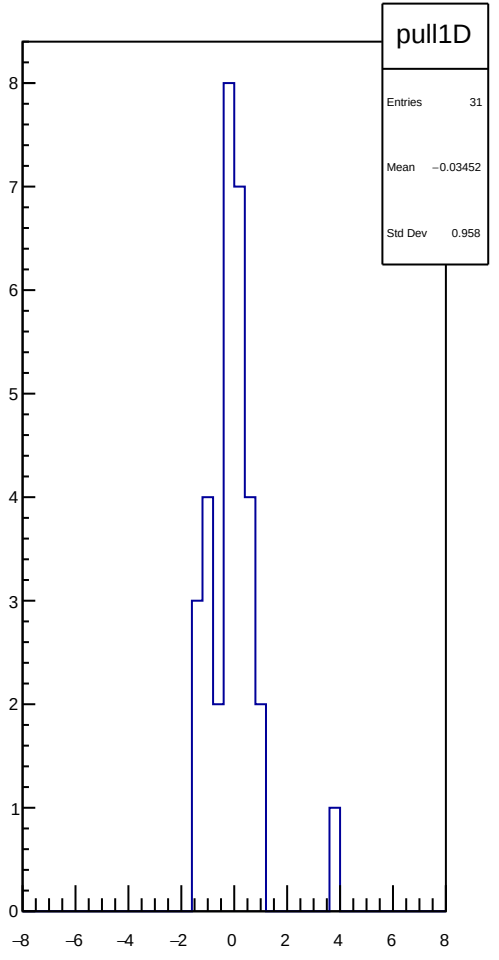

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.47 / 30
p0 4.094 ± 2.927
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.105
Std Dev 8.815
1
0.5
0
−0.5
−1

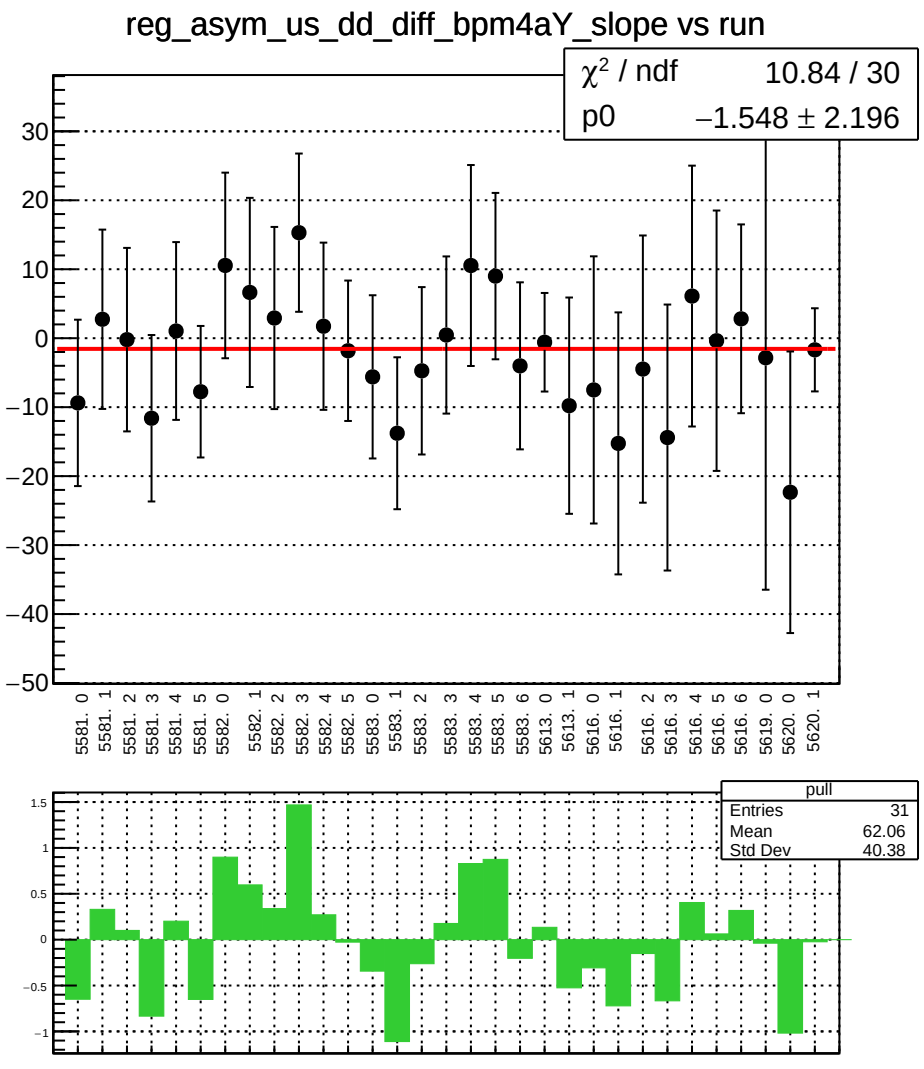

pull1D
Entries 31
Mean −0.06026
Std Dev 0.6054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

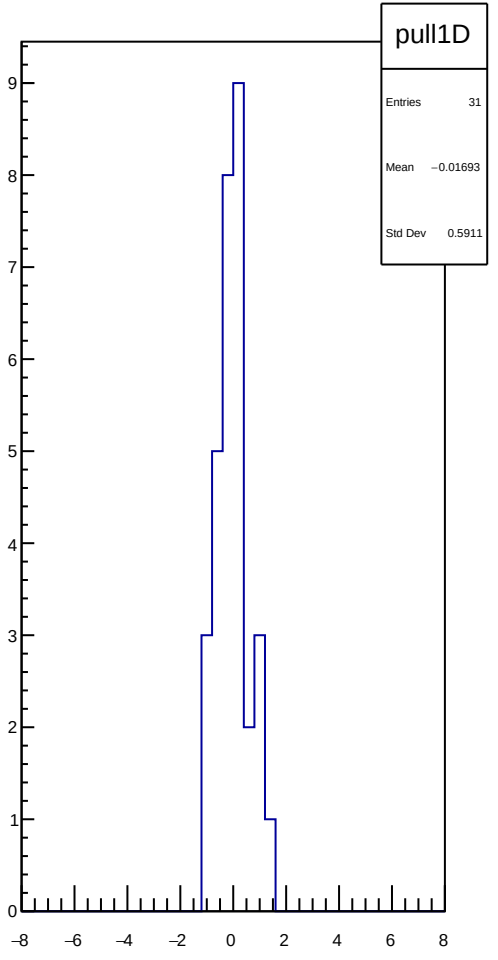

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 141 / 30
p0 −37.31 ± 0.09955
pull
Entries 31
Mean 70.4
Std Dev 44.92

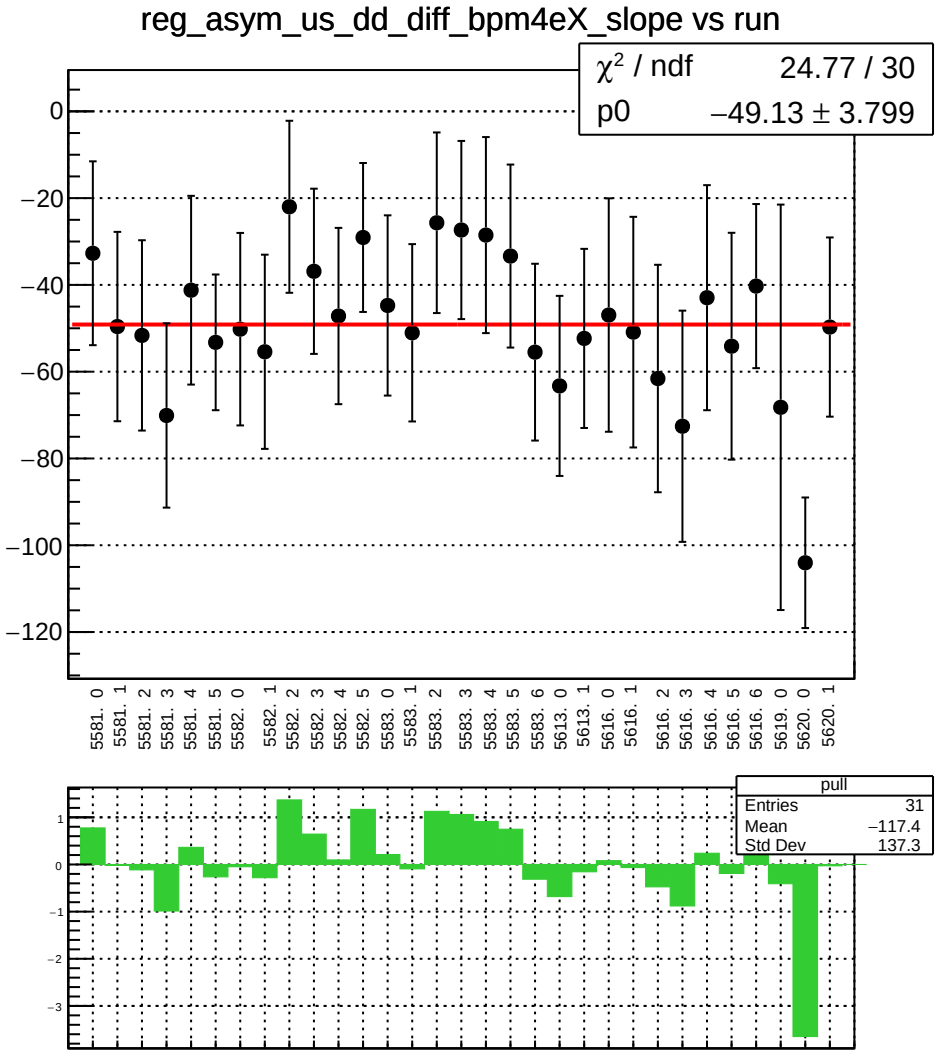

pull1D
Entries 31
Mean 0.2974
Std Dev 1.546

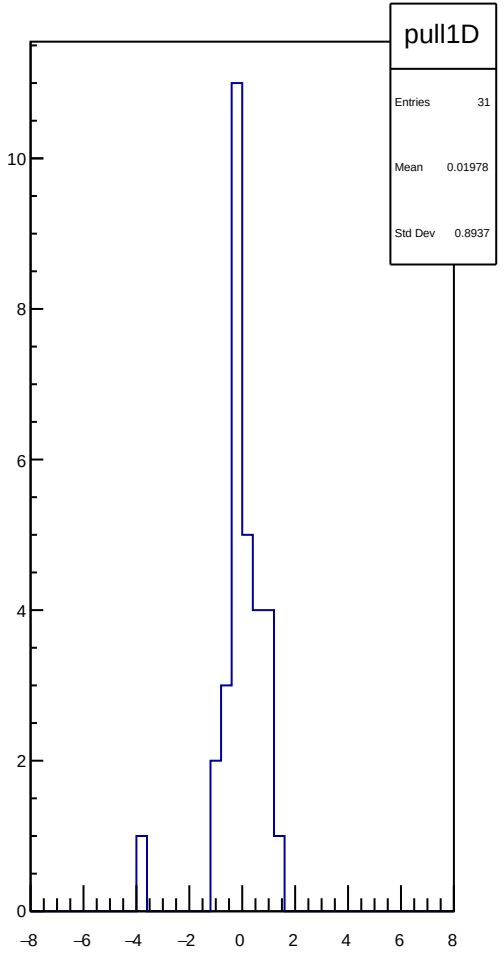

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.49 / 30
p0 −16.88 ± 3.879
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −93.02
Std Dev 111.8
4
3
2
1
0
−1

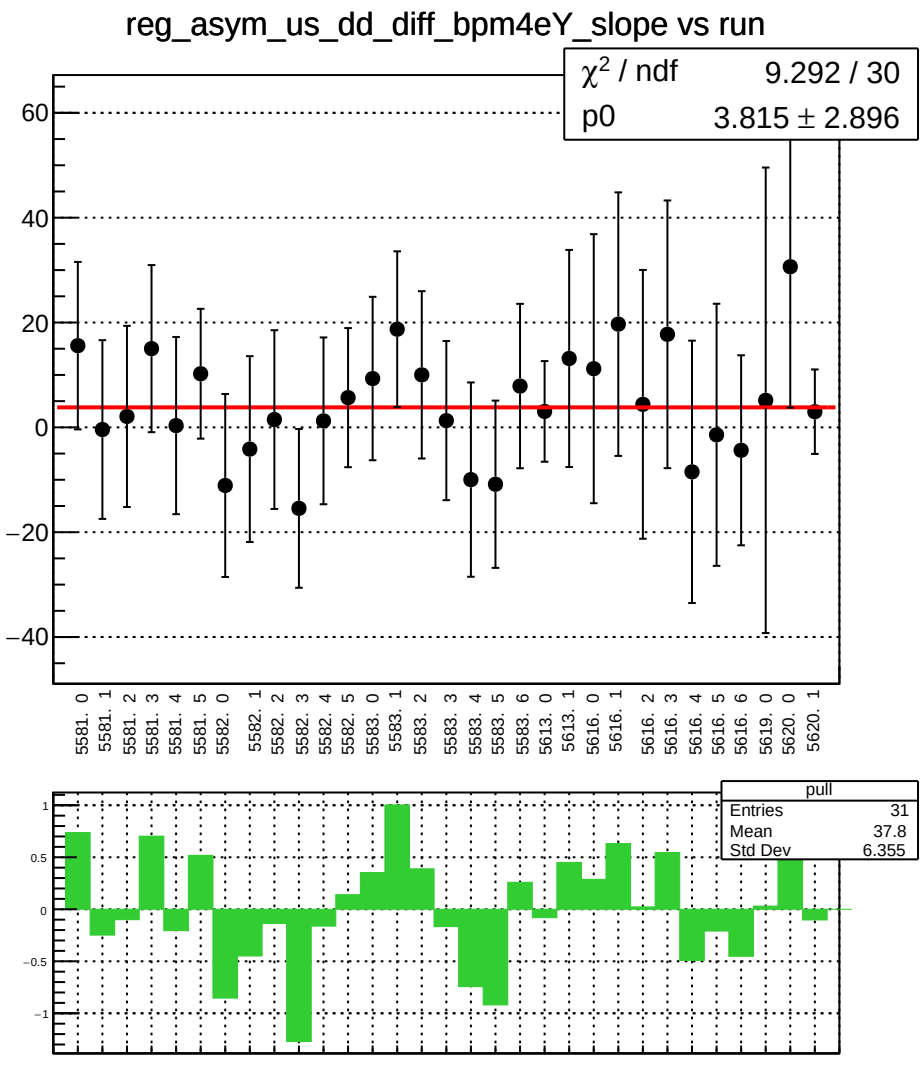

pull1D
Entries 31
Mean −0.03452
Std Dev 0.958
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

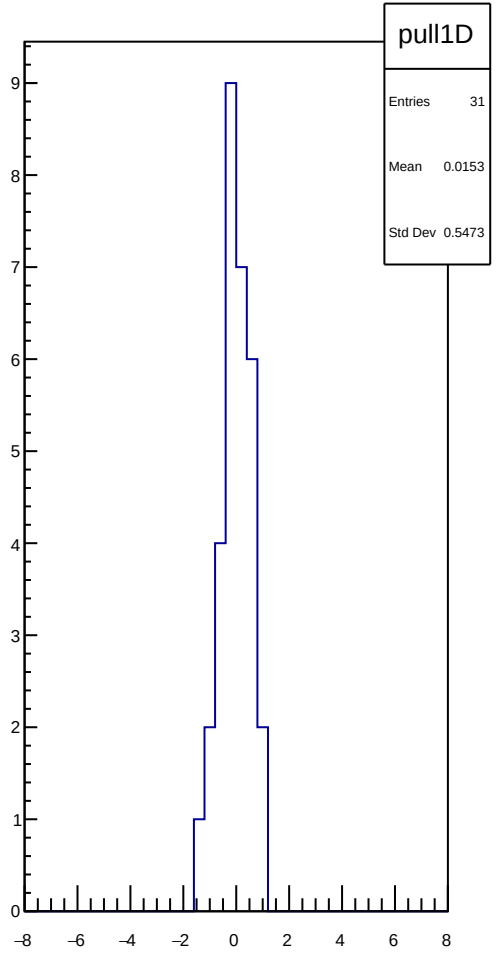

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.84 / 30
p0 −1.548 ± 2.196
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 62.06
Std Dev 40.38
1.5
1
0.5
0
−0.5
−1

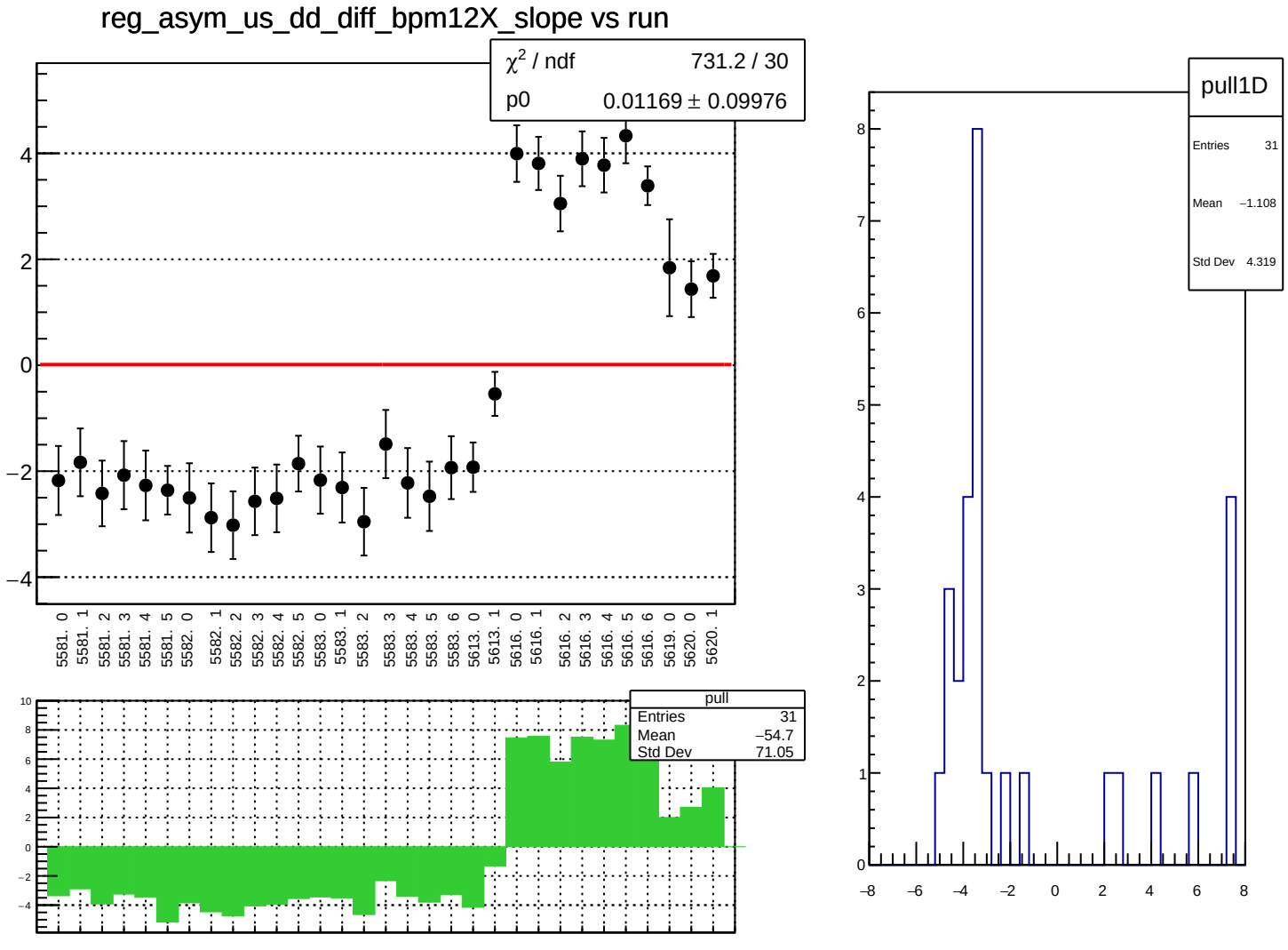

pull1D
Entries 31
Mean −0.01693
Std Dev 0.5911
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

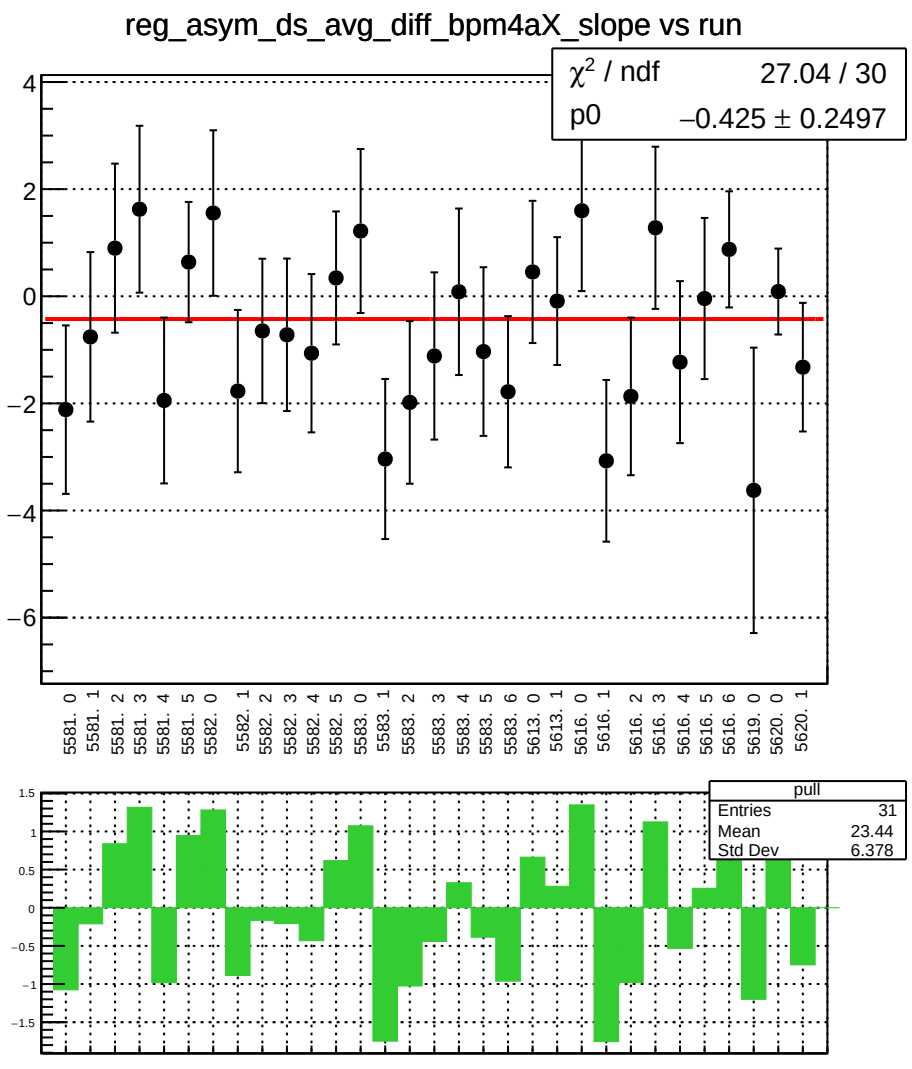

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.77 / 30
p0 −49.13 ± 3.799
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −117.4
Std Dev 137.3
1
0
−1
−2
−3

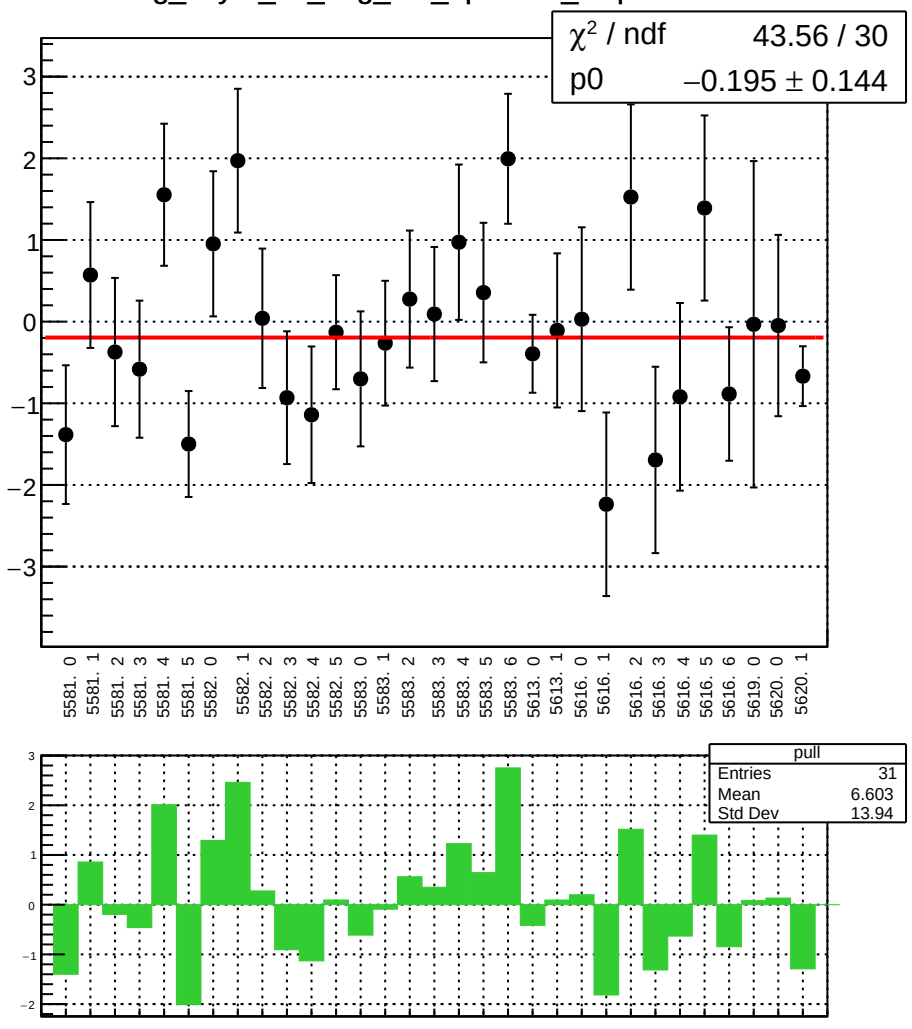

pull1D
Entries 31
Mean 0.01978
Std Dev 0.8937
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

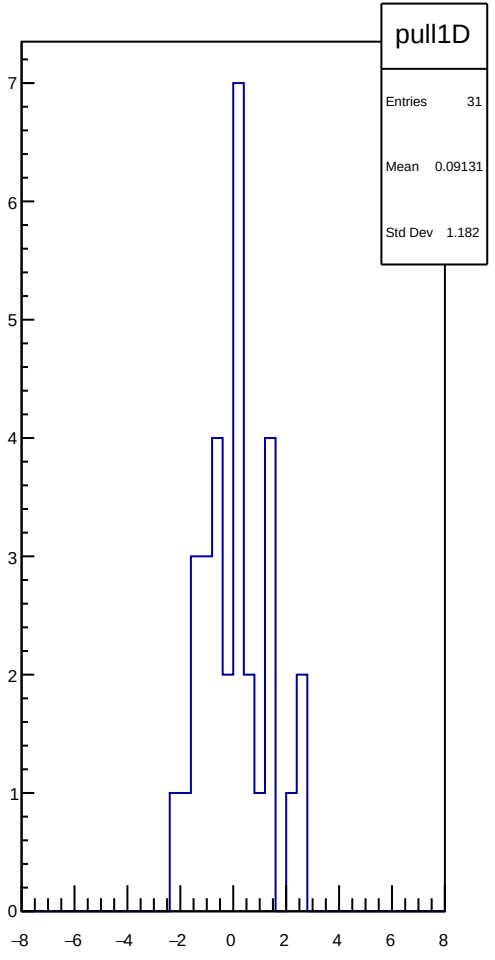

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.292 / 30
p0 3.815 ± 2.896
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.8
Std Dev 6.355
1
0.5
0
−0.5
−1

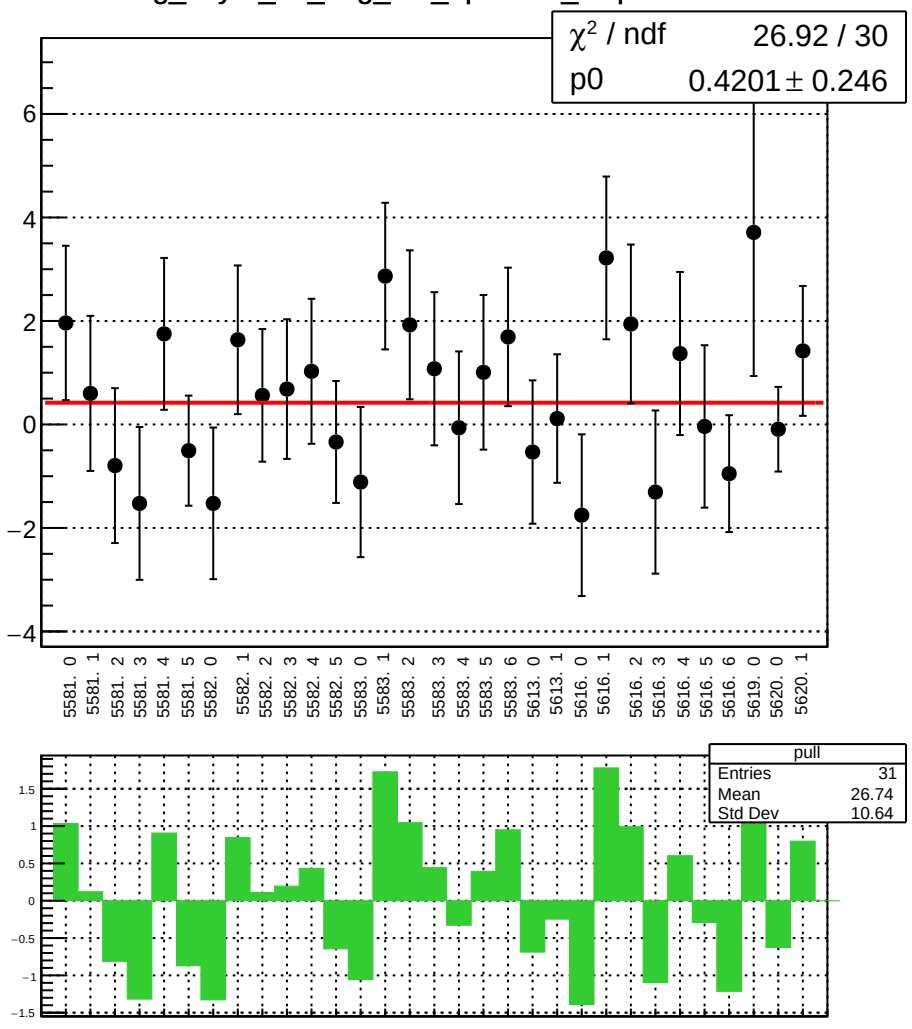

pull1D
Entries 31
Mean 0.0153
Std Dev 0.5473
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

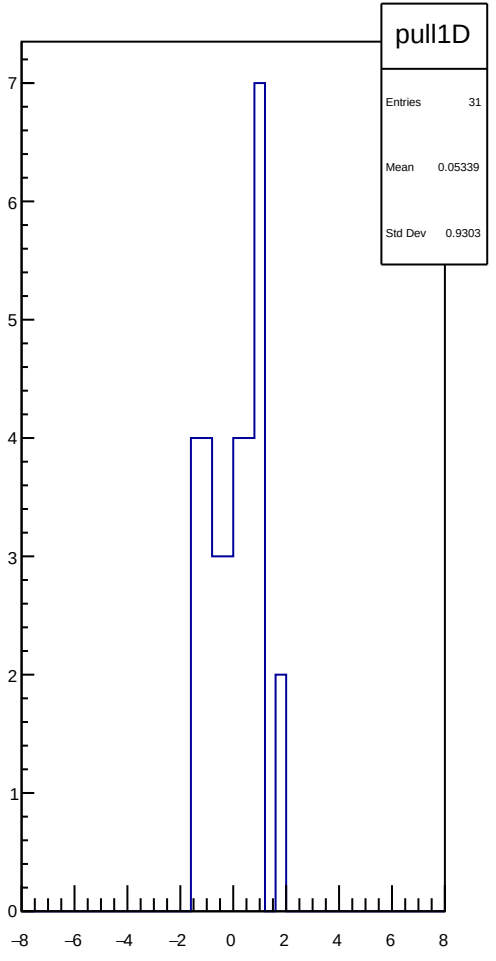

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 731.2 / 30
p0 0.01169 ± 0.09976
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −54.7
Std Dev 71.05
10
8
6
4
2
0
−2
−4
pull1D
Entries 31
Mean −1.108
Std Dev 4.319
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

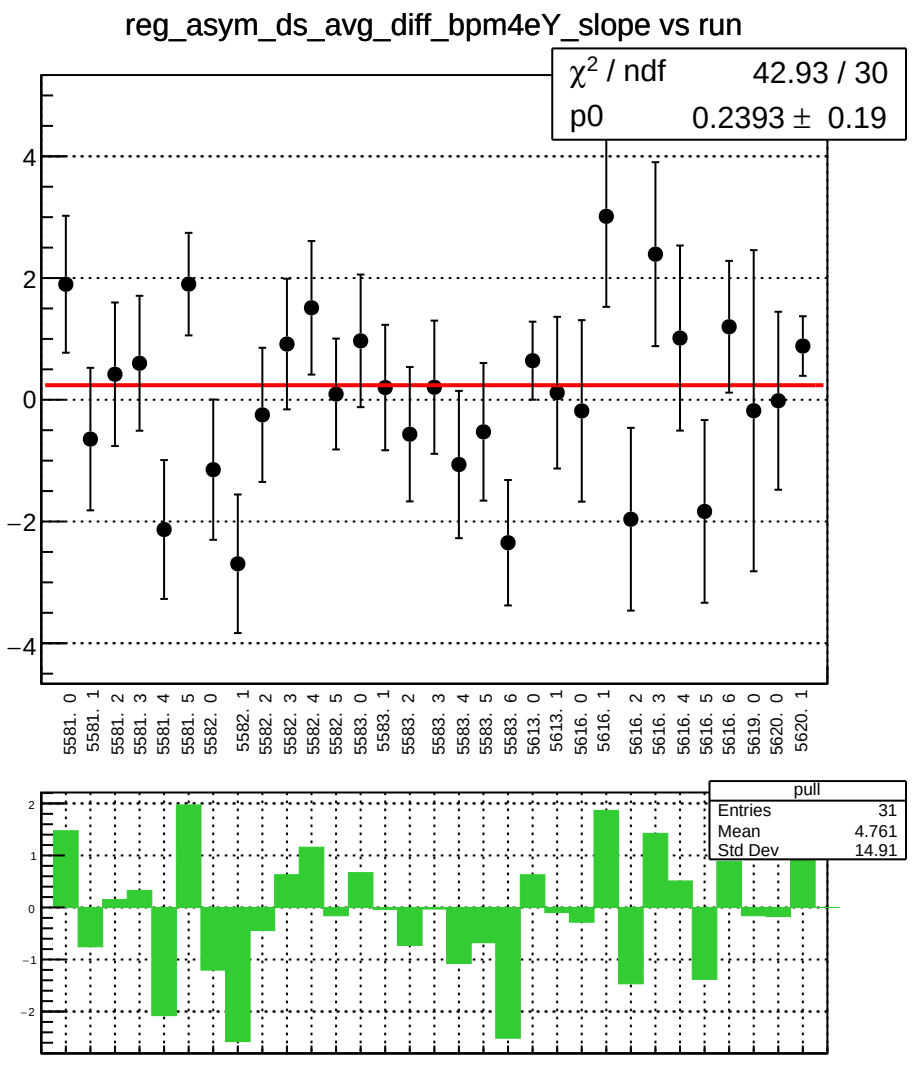

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.04 / 30
p0 −0.425 ± 0.2497
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 23.44
Std Dev 6.378
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.05897
Std Dev 0.932
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

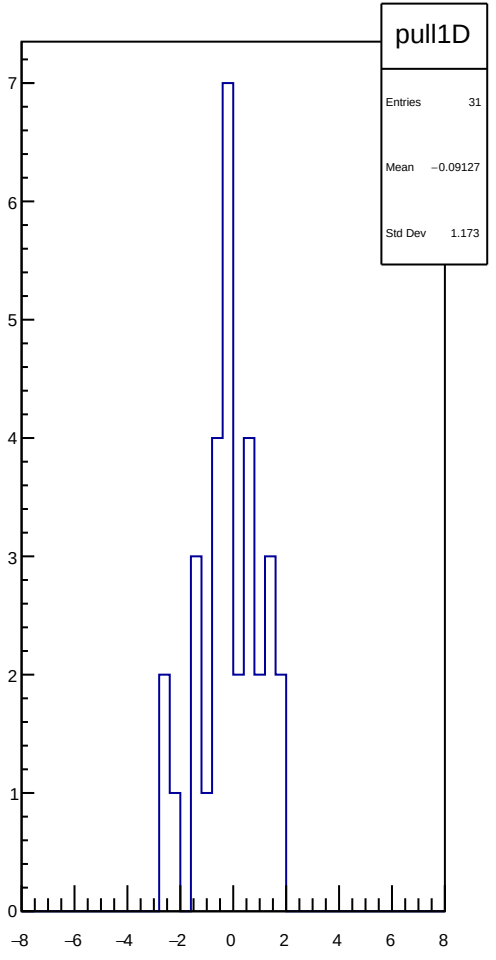

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.56 / 30
p0 −0.195 ± 0.144
pull
Entries 31
Mean 6.603
Std Dev 13.94

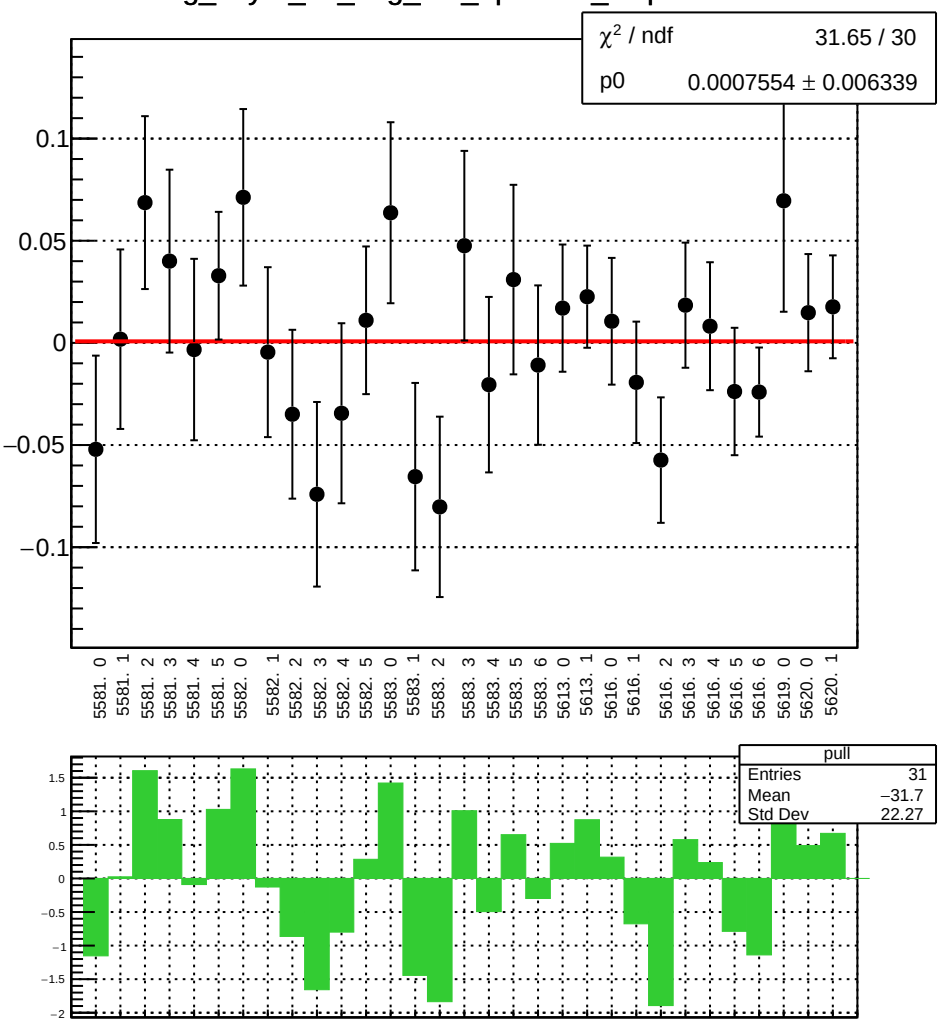

pull1D
Entries 31
Mean 0.09131
Std Dev 1.182

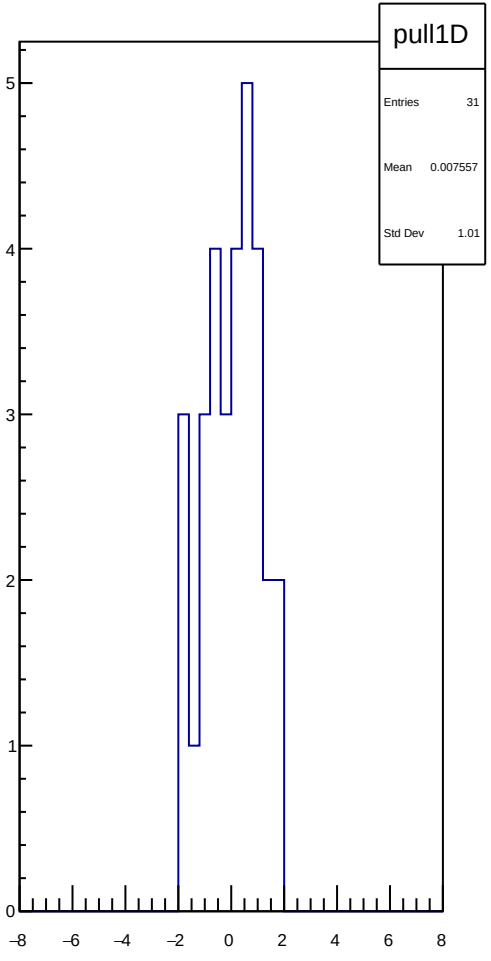

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.92 / 30
p0 0.4201 ± 0.246
pull
Entries 31
Mean 26.74
Std Dev 10.64

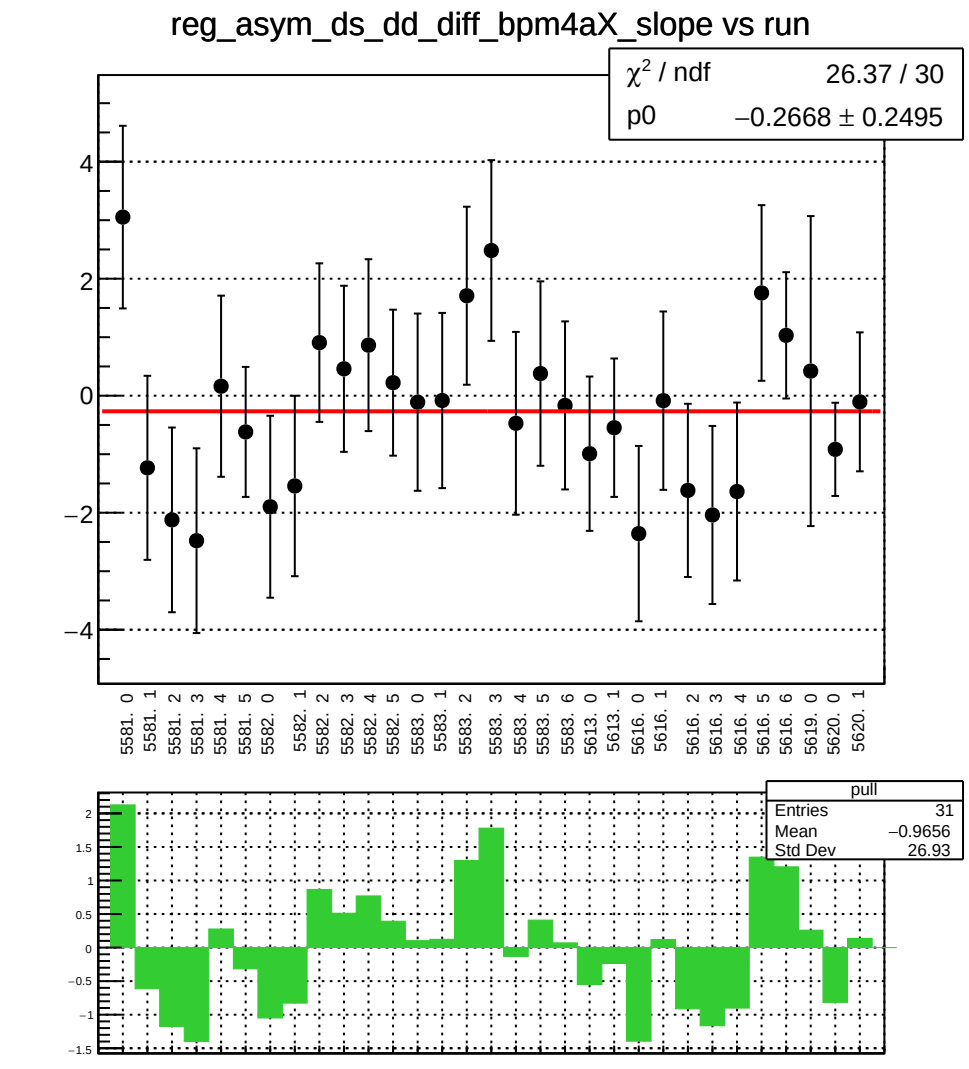

pull1D
Entries 31
Mean 0.05339
Std Dev 0.9303

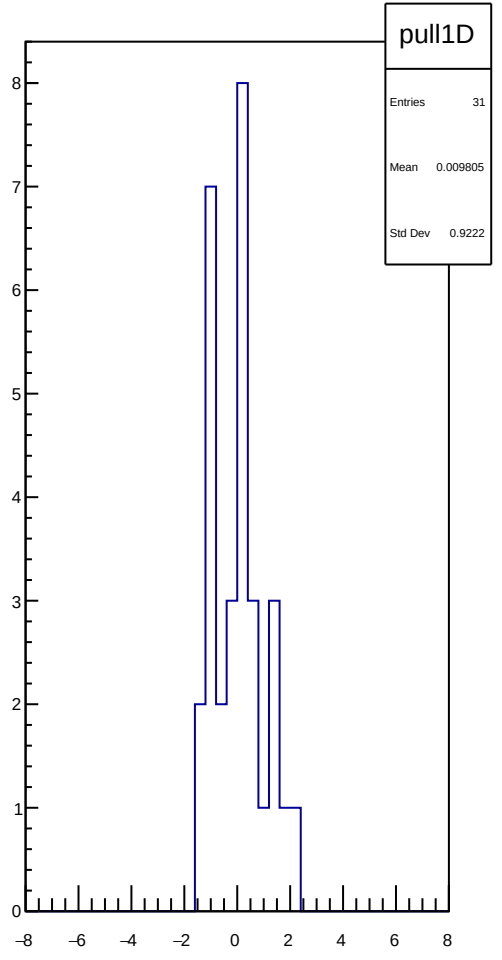

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.93 / 30
p0 0.2393 ± 0.19
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 4.761
Std Dev 14.91
2
1
0
−1
−2

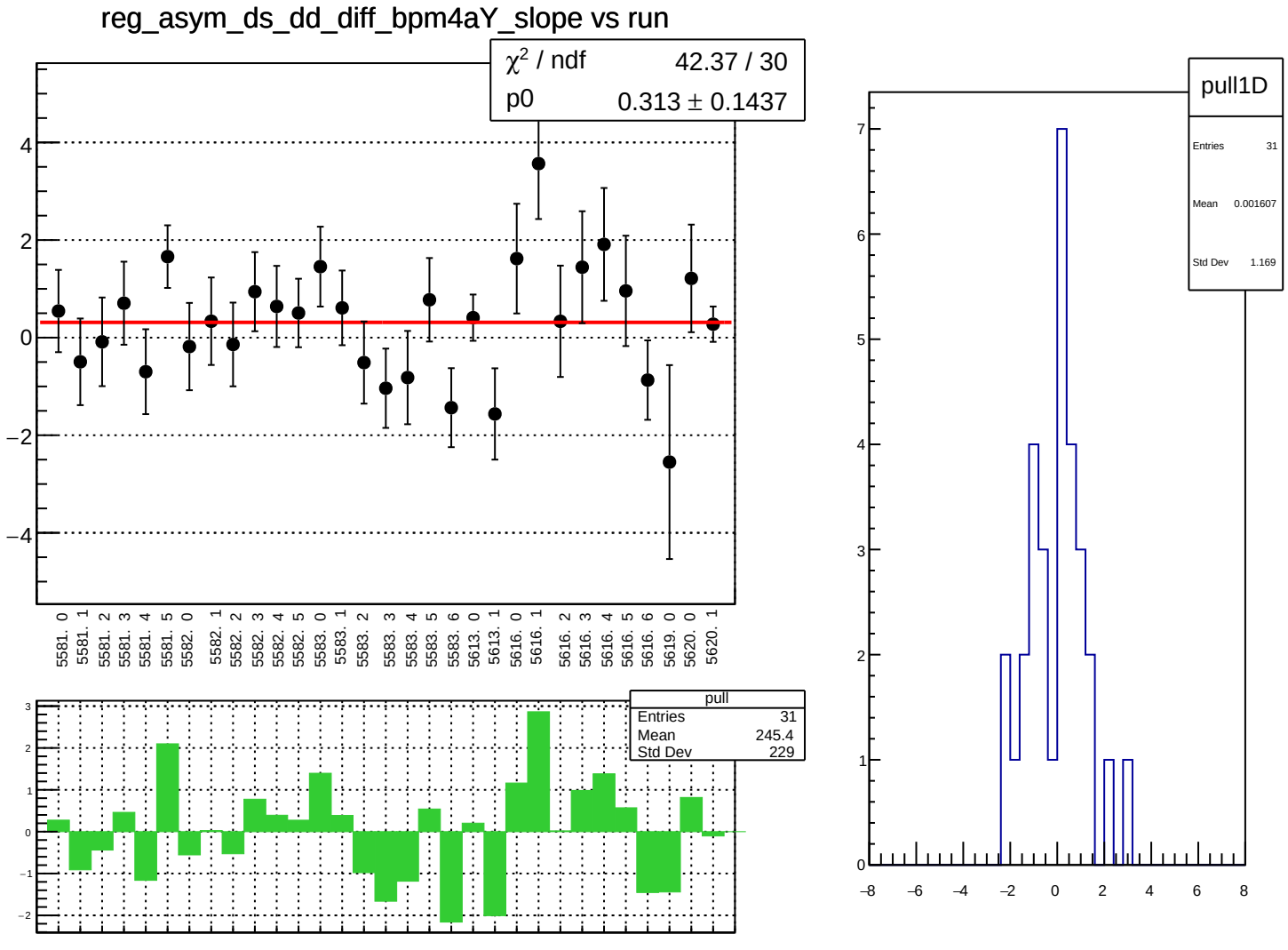

pull1D
Entries 31
Mean −0.09127
Std Dev 1.173
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

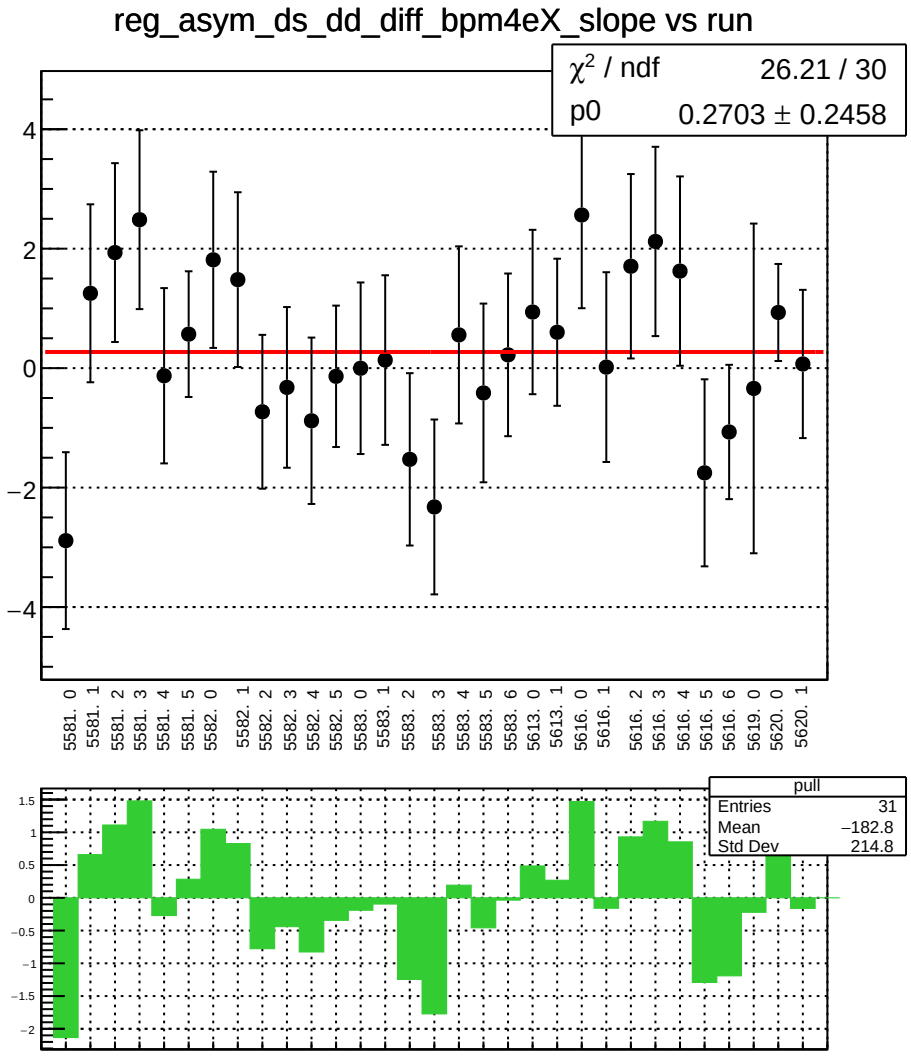

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 31.65 / 30
p0 0.0007554 ± 0.006339
0.1
0.05
0
−0.05
−0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −31.7
Std Dev 22.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

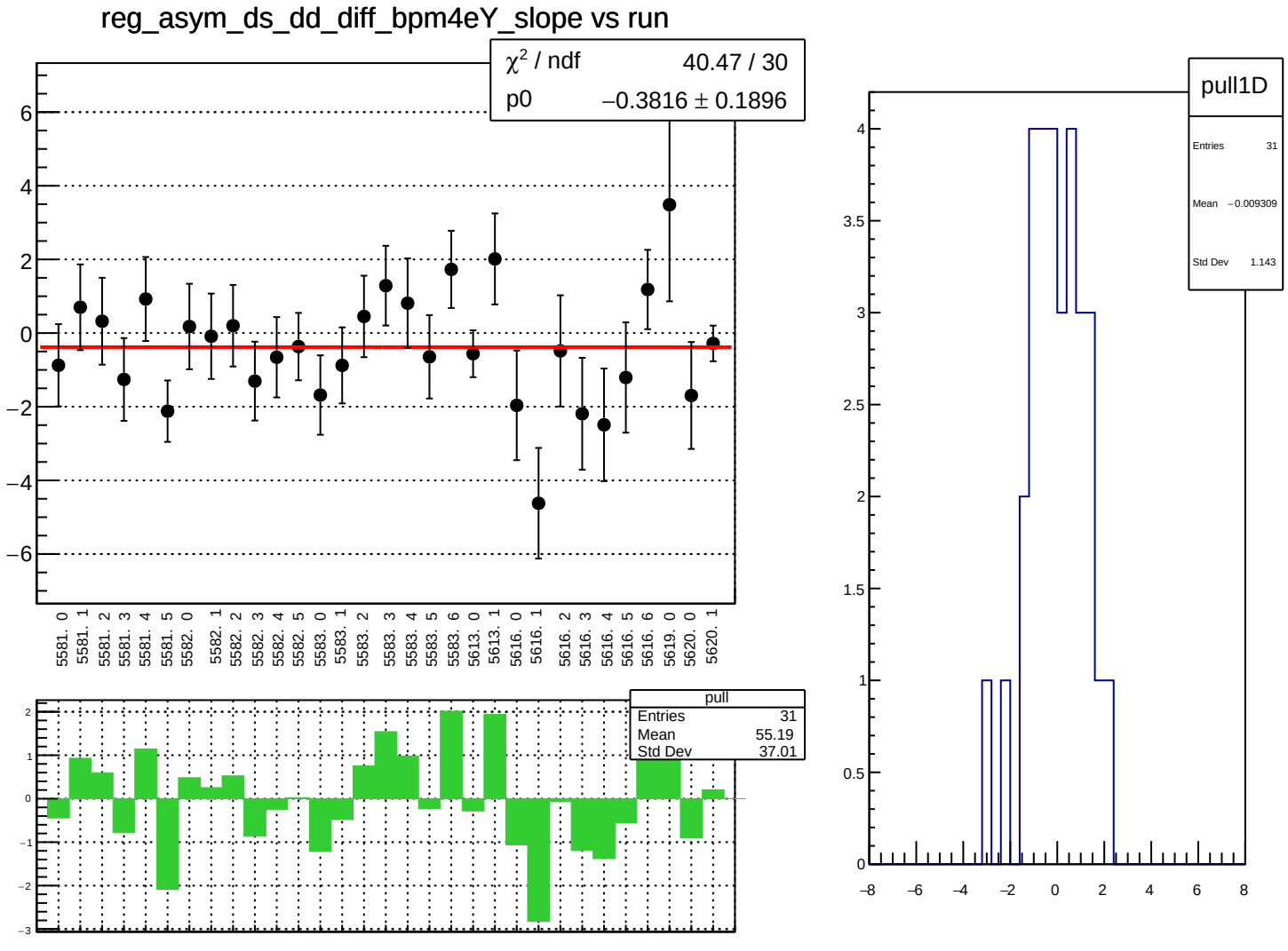

pull1D
Entries 31
Mean 0.007557
Std Dev 1.01
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

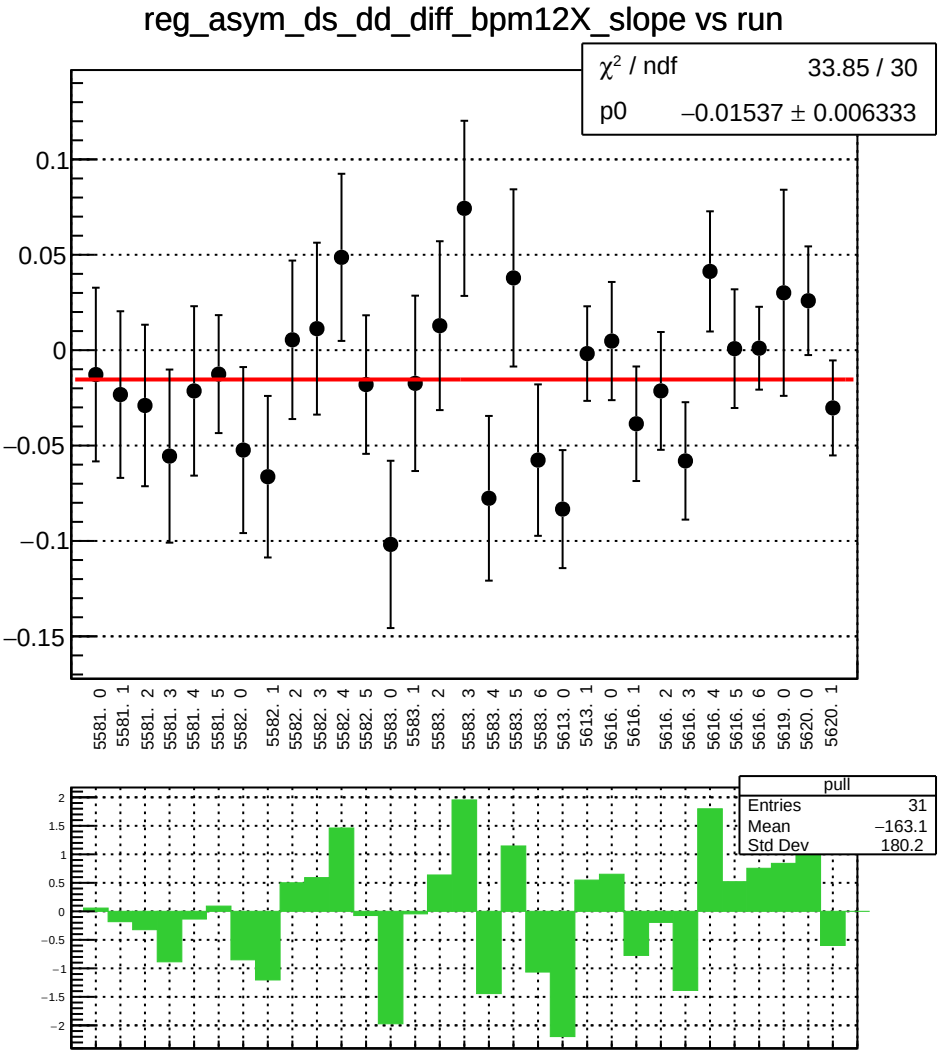

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 26.37 / 30
p0 −0.2668 ± 0.2495
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −0.9656
Std Dev 26.93
2
1.5
1
0.5
0
−0.5
−1
−1.5

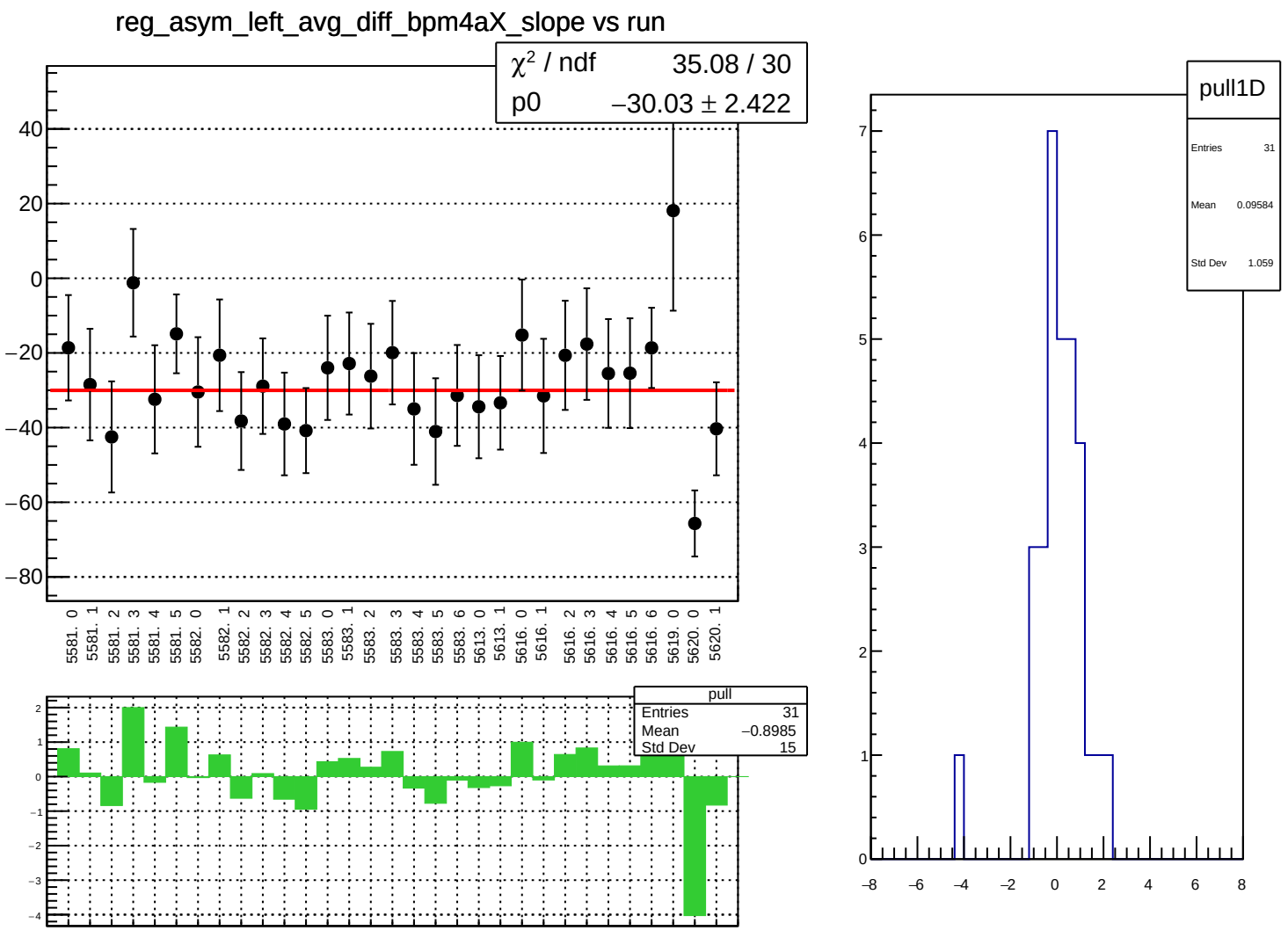

pull1D
Entries 31
Mean 0.009805
Std Dev 0.9222
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

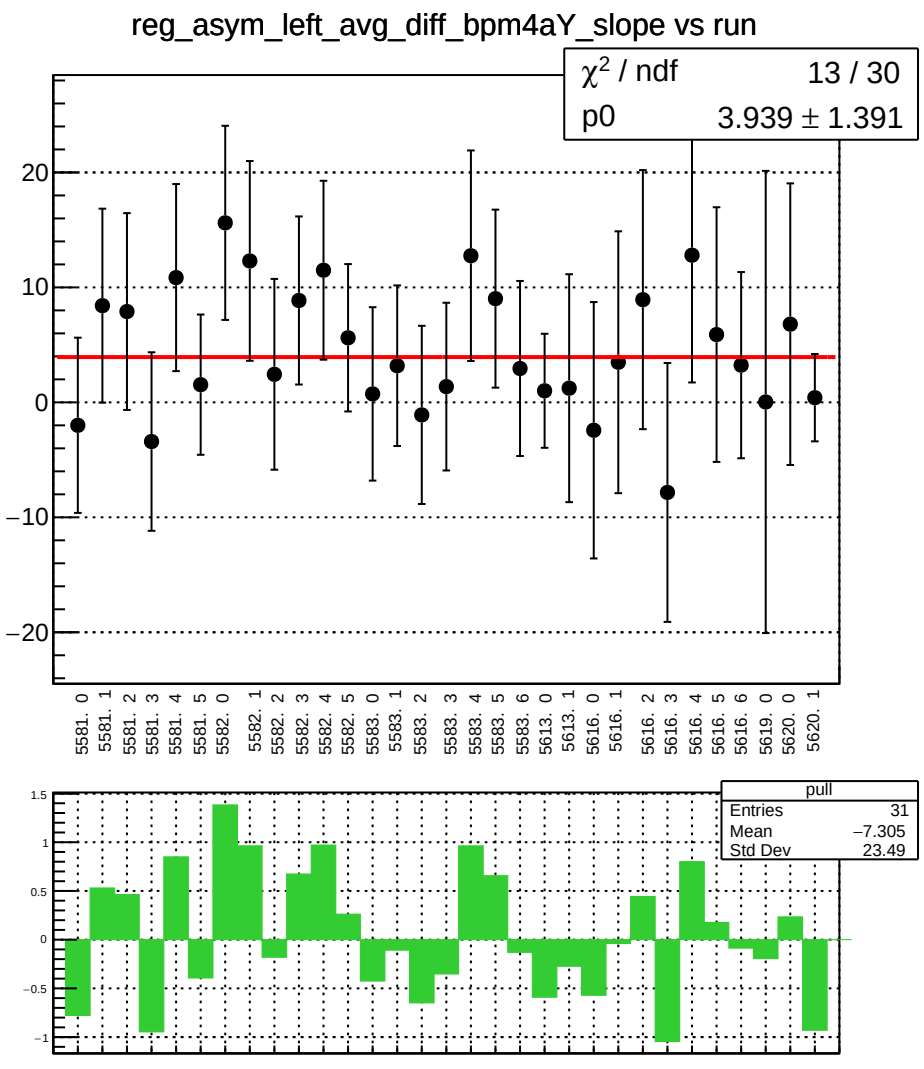

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.37 / 30
p0 0.313 ± 0.1437
pull
Entries 31
Mean 245.4
Std Dev 229
pull1D
Entries 31
Mean 0.001607
Std Dev 1.169

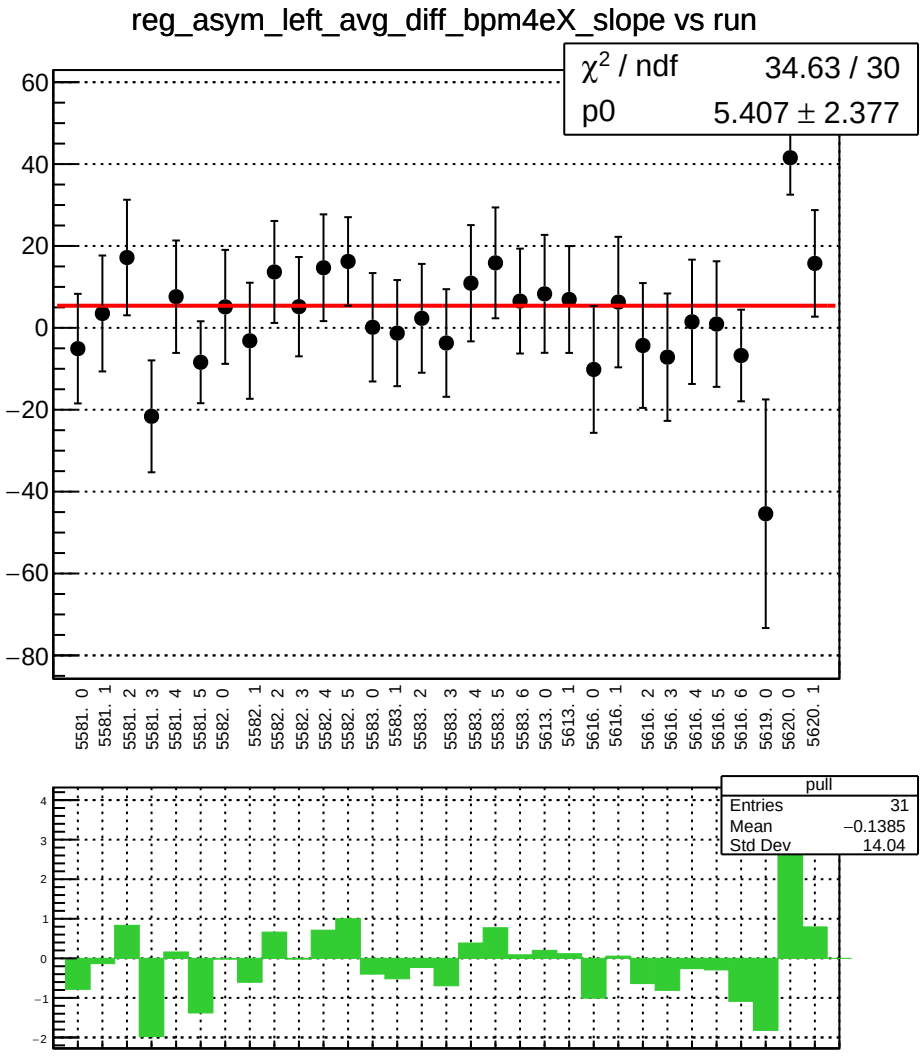

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.21 / 30
p0 0.2703 ± 0.2458
pull
Entries 31
Mean −182.8
Std Dev 214.8
pull1D
Entries 31
Mean −0.0007346
Std Dev 0.9195

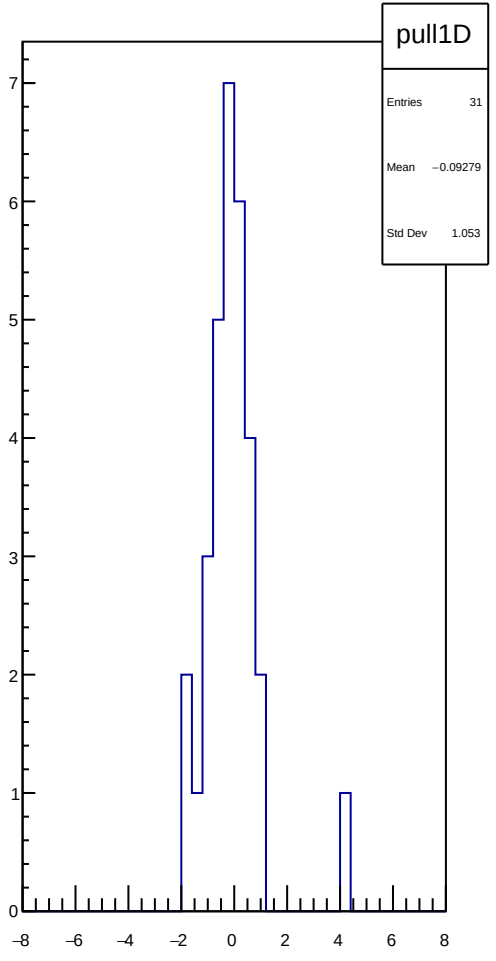

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.47 / 30
p0 −0.3816 ± 0.1896
pull
Entries 31
Mean 55.19
Std Dev 37.01
pull1D
Entries 31
Mean −0.009309
Std Dev 1.143

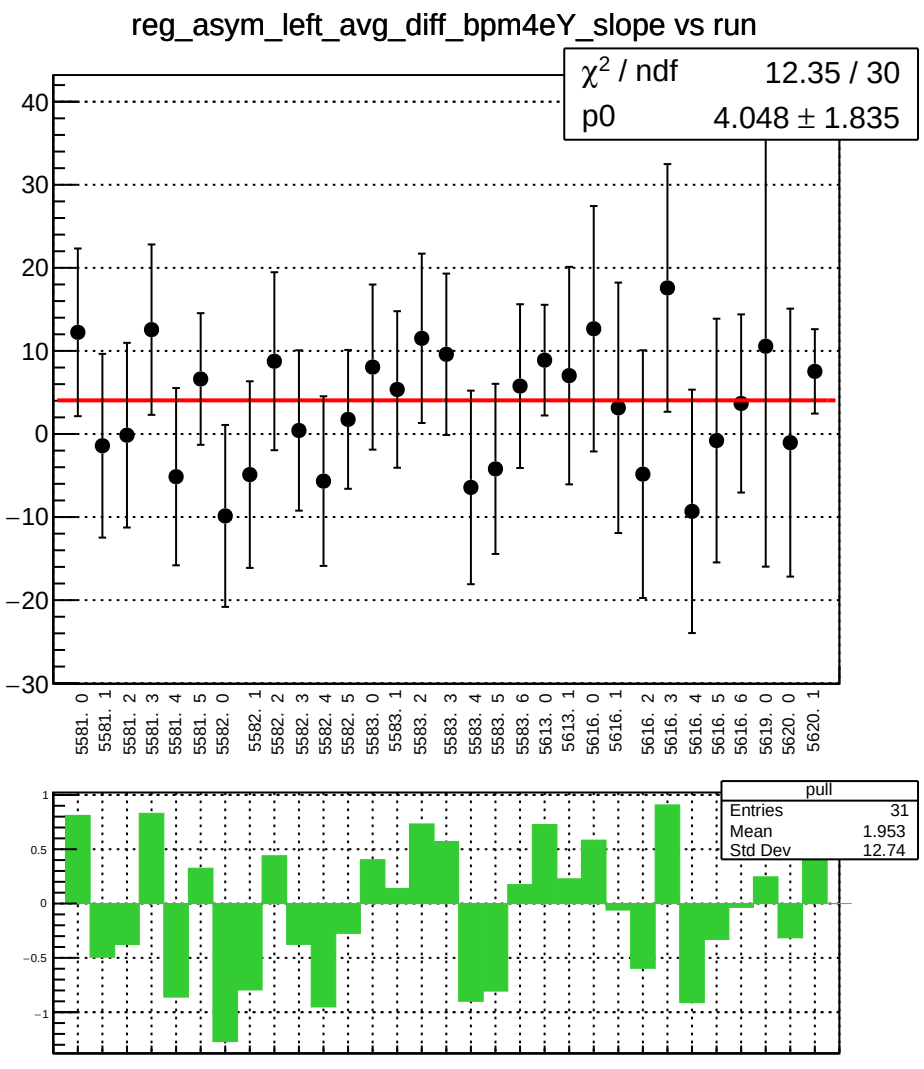

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 33.85 / 30
p0 −0.01537 ± 0.006333
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −163.1
Std Dev 180.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01024
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

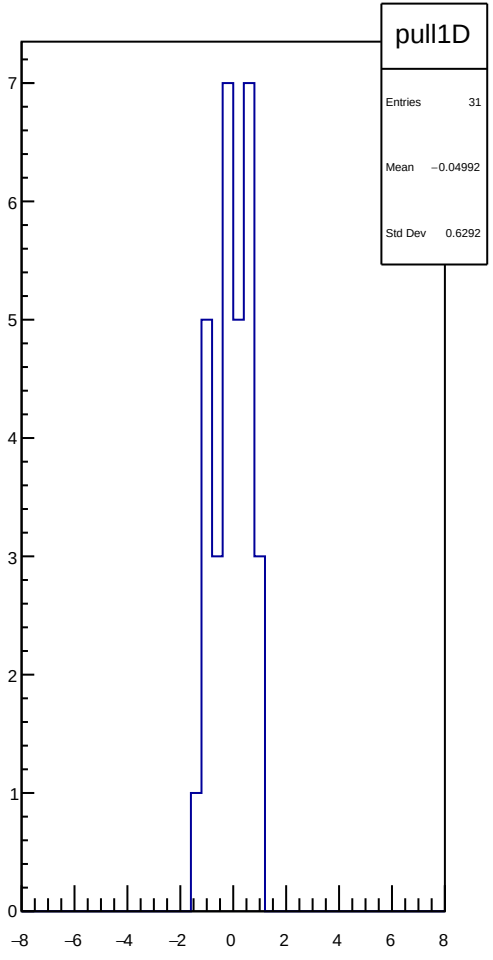

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 35.08 / 30
p0 −30.03 ± 2.422
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −0.8985
Std Dev 15
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.09584
Std Dev 1.059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

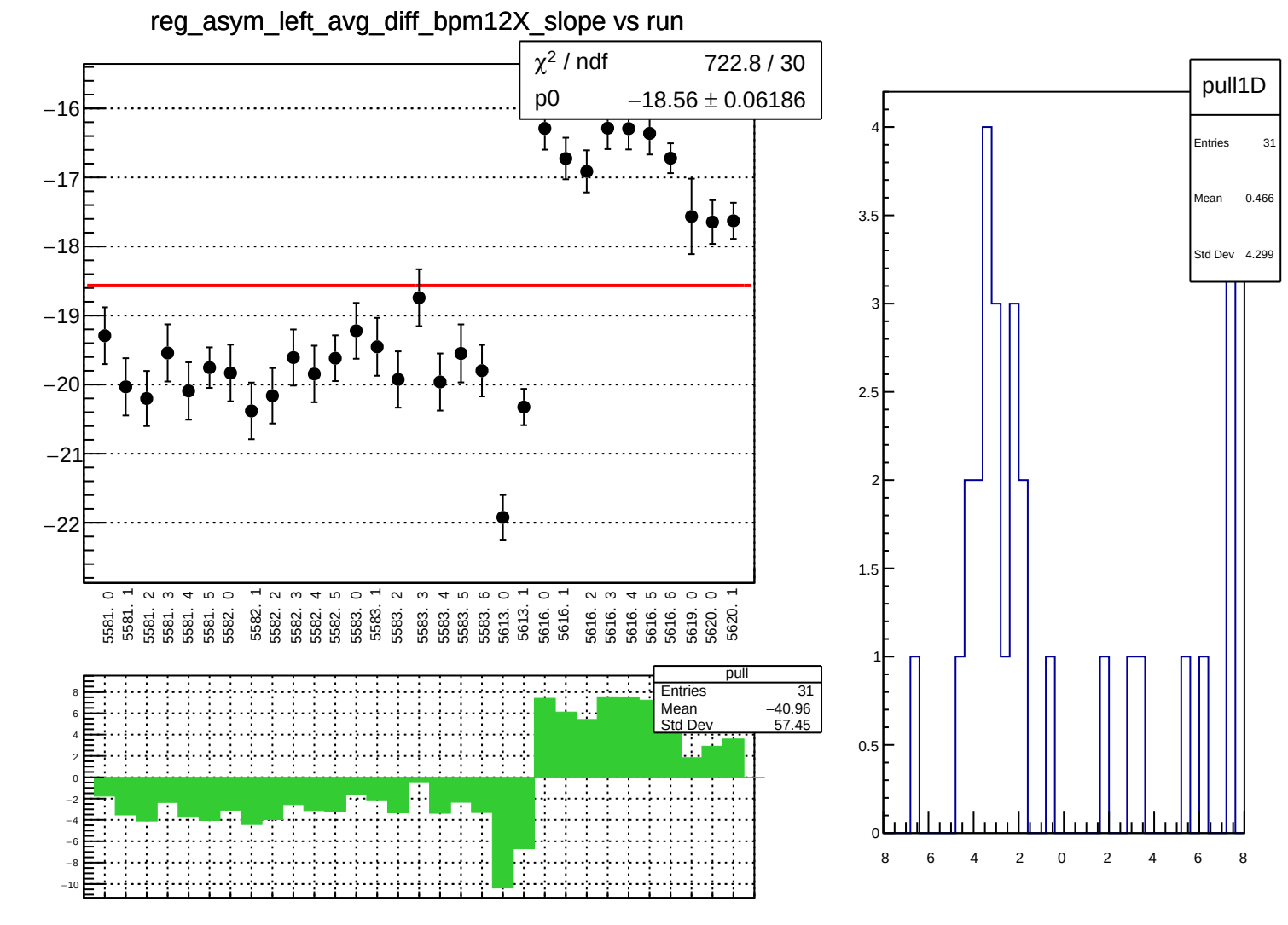

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 13 / 30
p0 3.939 ± 1.391
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −7.305
Std Dev 23.49
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.05406
Std Dev 0.6453
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

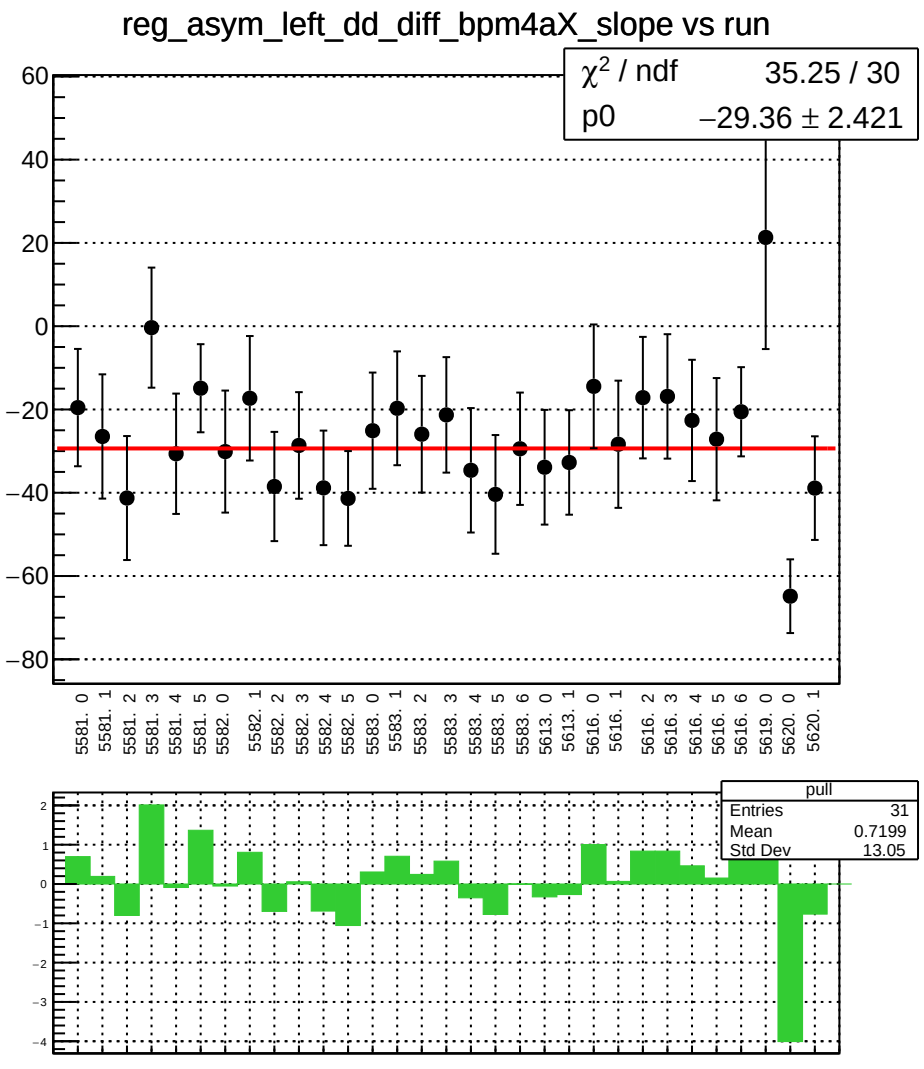

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.63 / 30
p0 5.407 ± 2.377
pull
Entries 31
Mean −0.1385
Std Dev 14.04

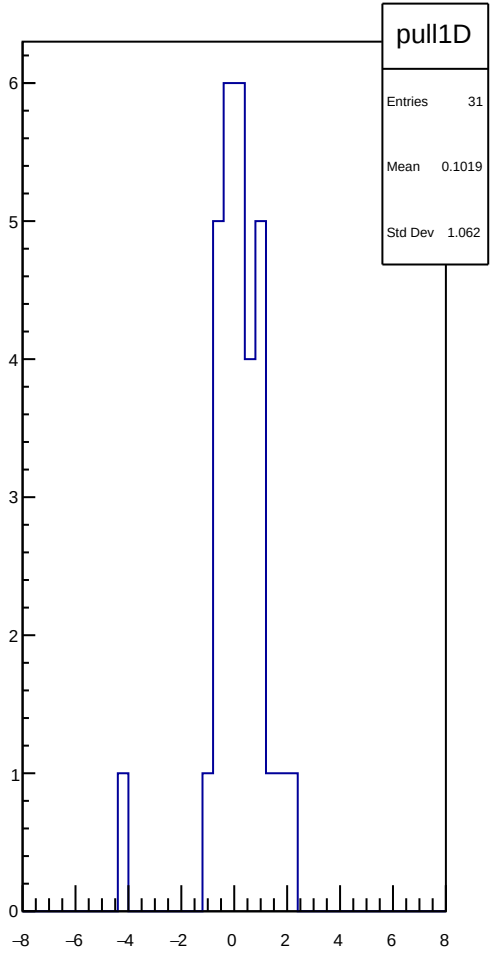

pull1D
Entries 31
Mean −0.09279
Std Dev 1.053

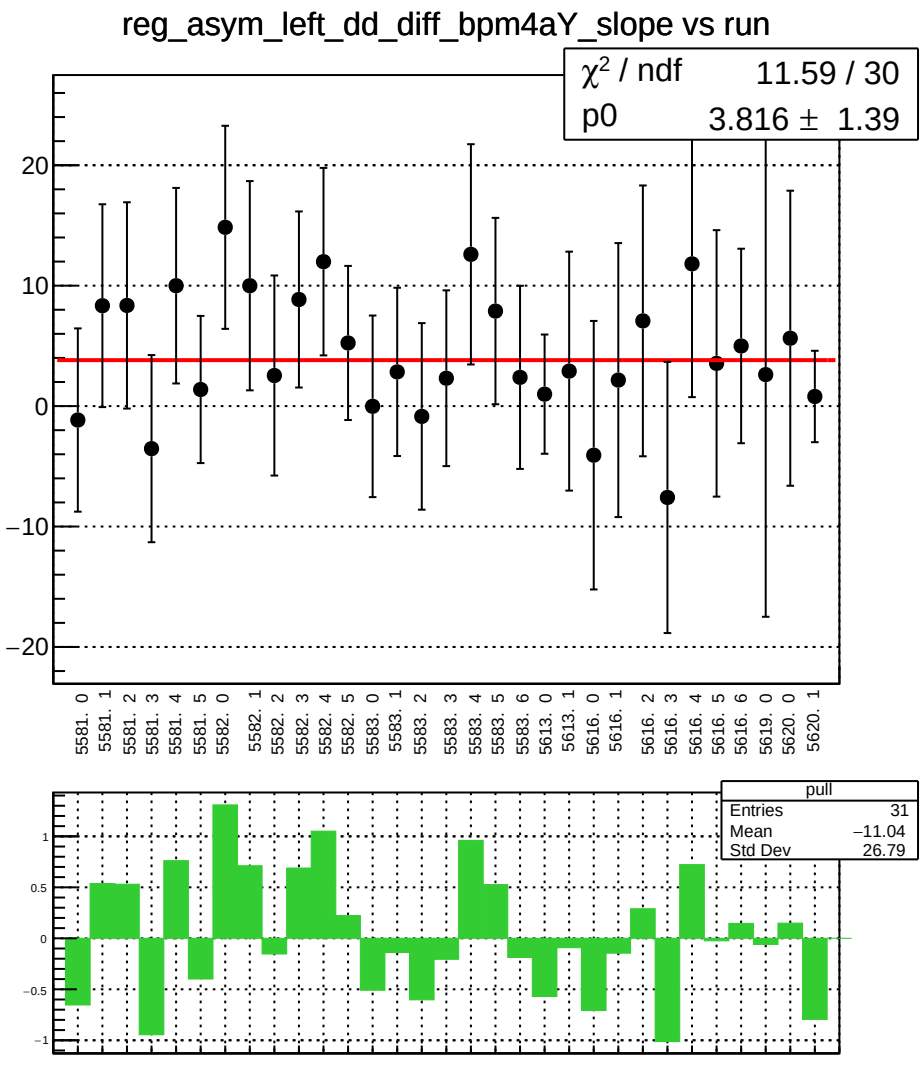

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.35 / 30
p0 4.048 ± 1.835
pull
Entries 31
Mean 1.953
Std Dev 12.74

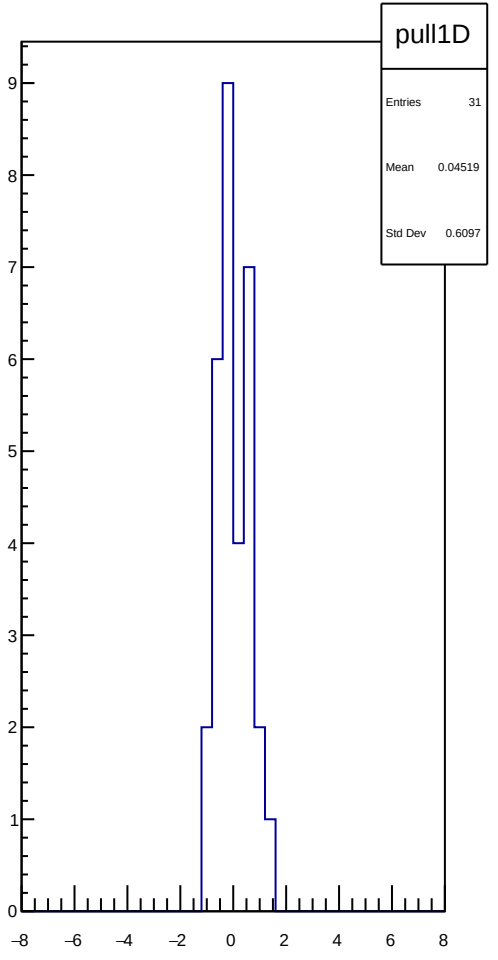

pull1D
Entries 31
Mean −0.04992
Std Dev 0.6292

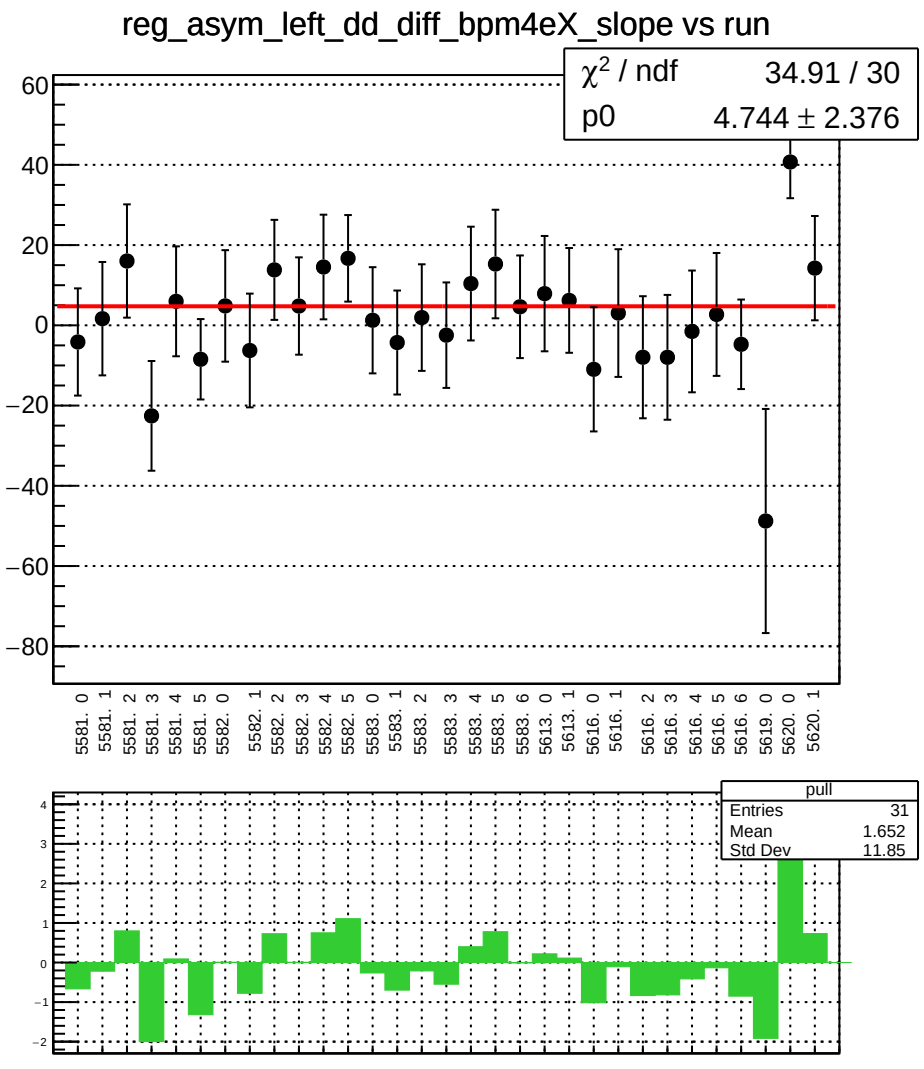

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 722.8 / 30
p0 −18.56 ± 0.06186
−16
−17
−18
−19
−20
−21
−22
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −40.96
Std Dev 57.45
8
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean −0.466
Std Dev 4.299
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

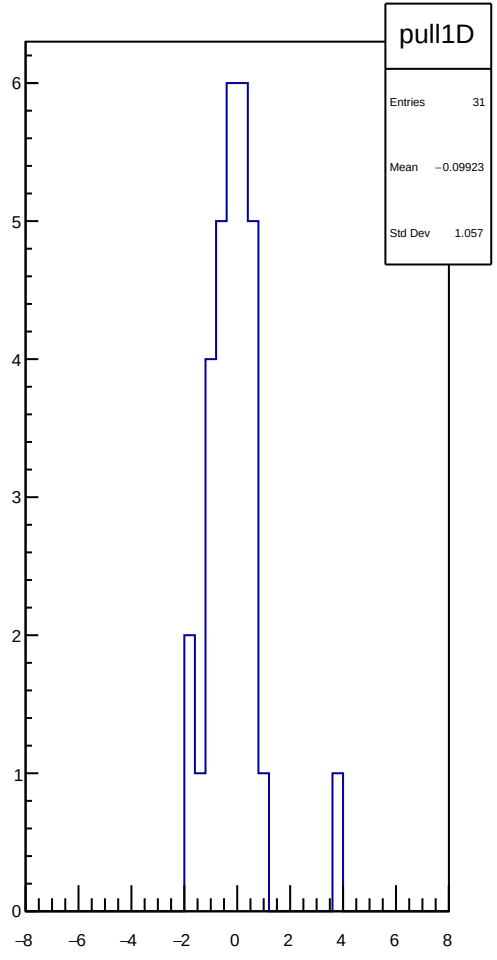

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 35.25 / 30
p0 −29.36 ± 2.421
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 0.7199
Std Dev 13.05
2
1
0
−1
−2
−3
−4

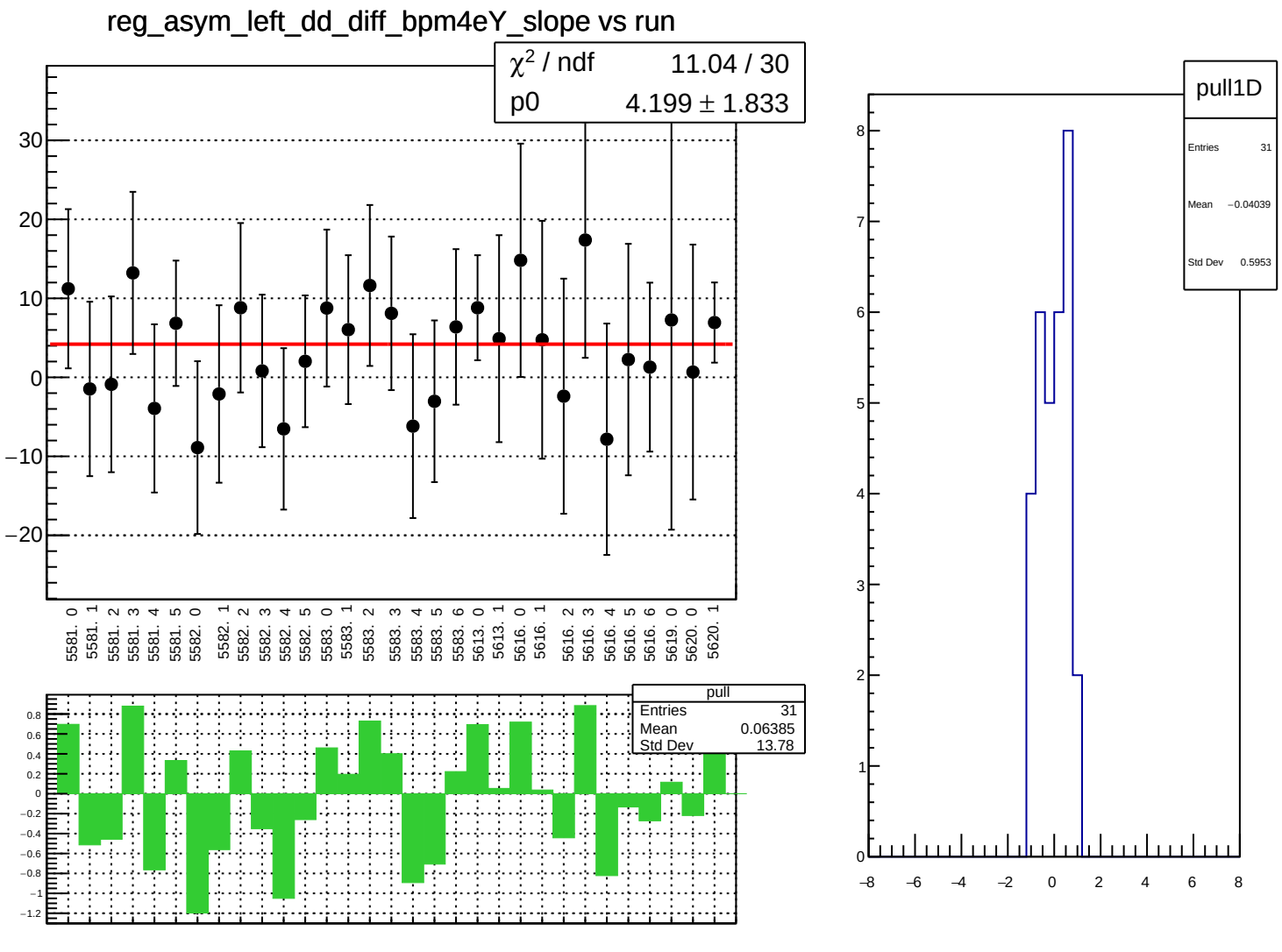

pull1D
Entries 31
Mean 0.1019
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

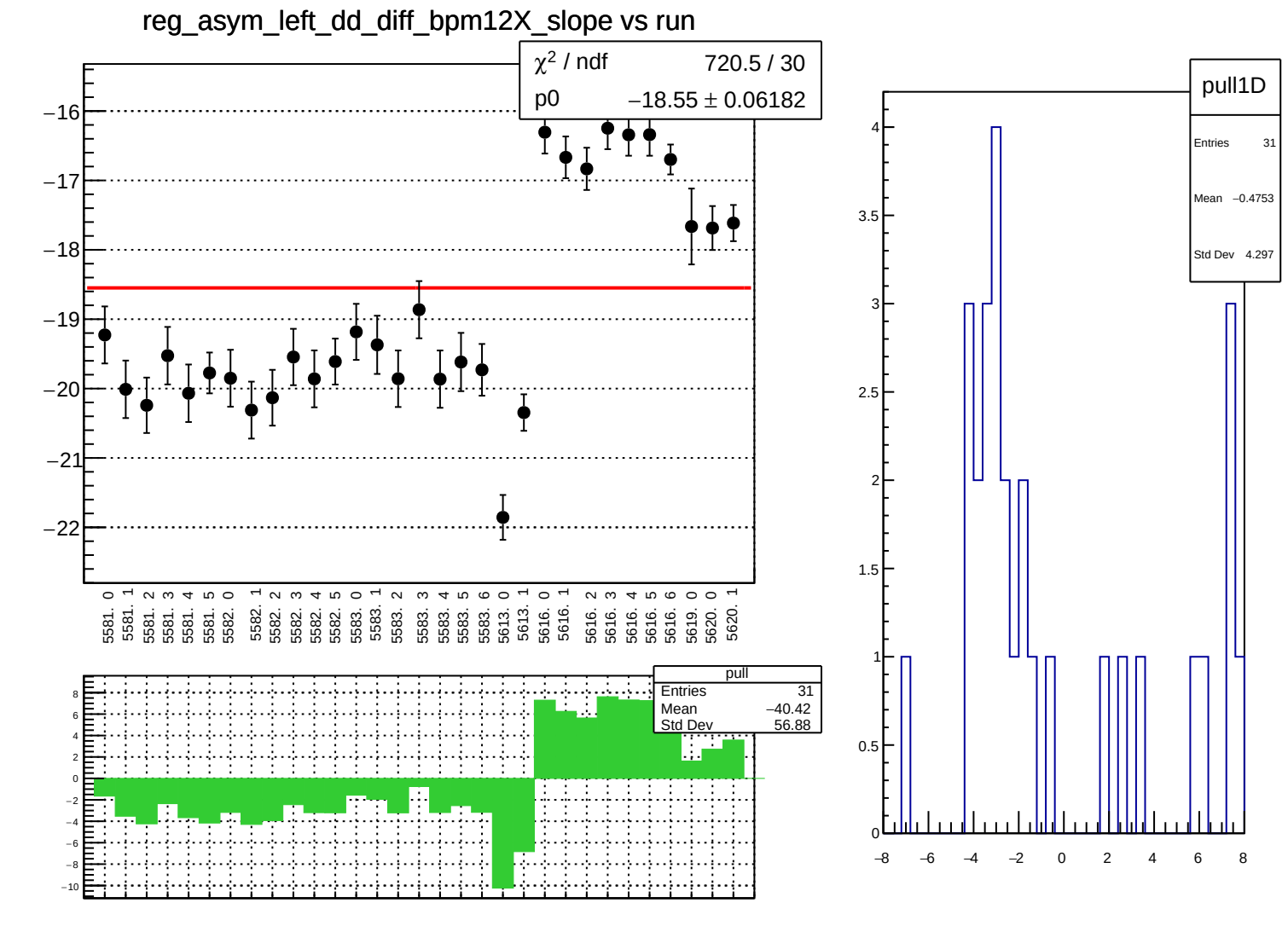

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.59 / 30
p0 3.816 ± 1.39
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −11.04
Std Dev 26.79
1
0.5
0
−0.5
−1

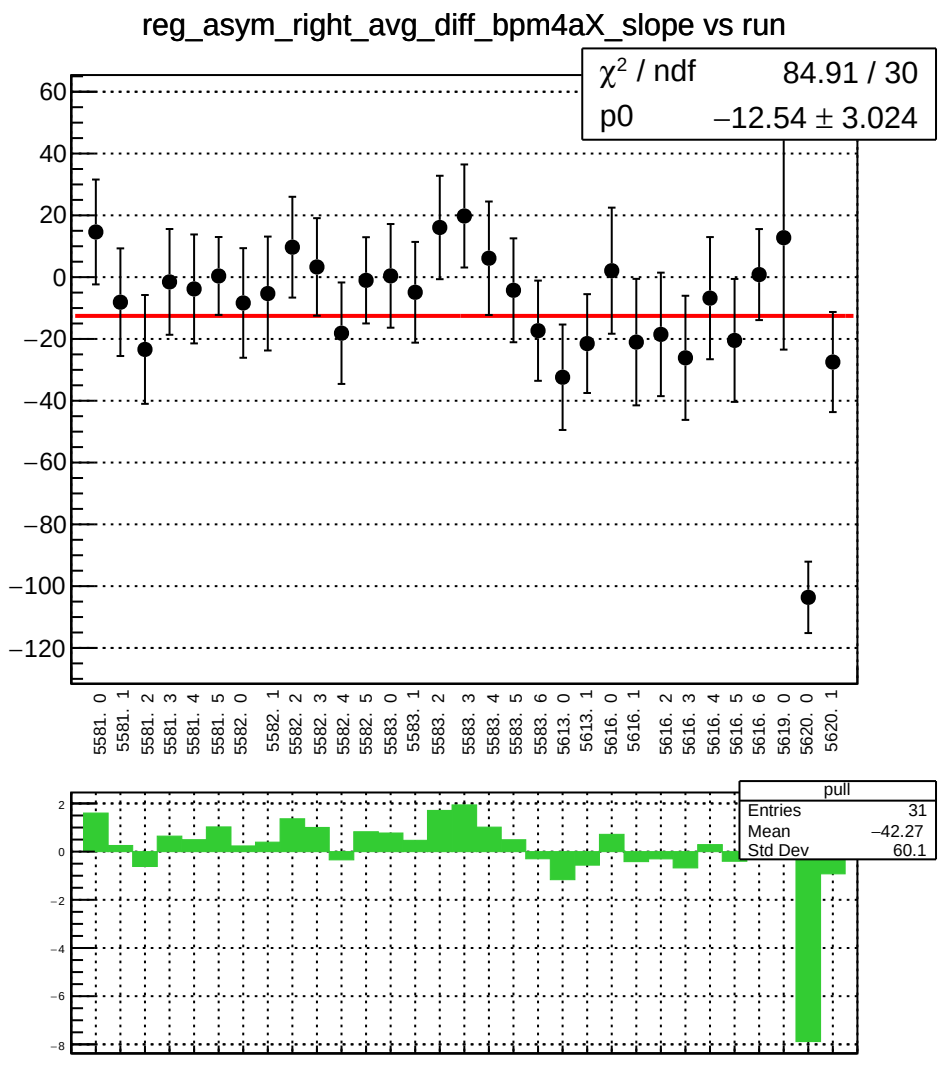

pull1D
Entries 31
Mean 0.04519
Std Dev 0.6097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

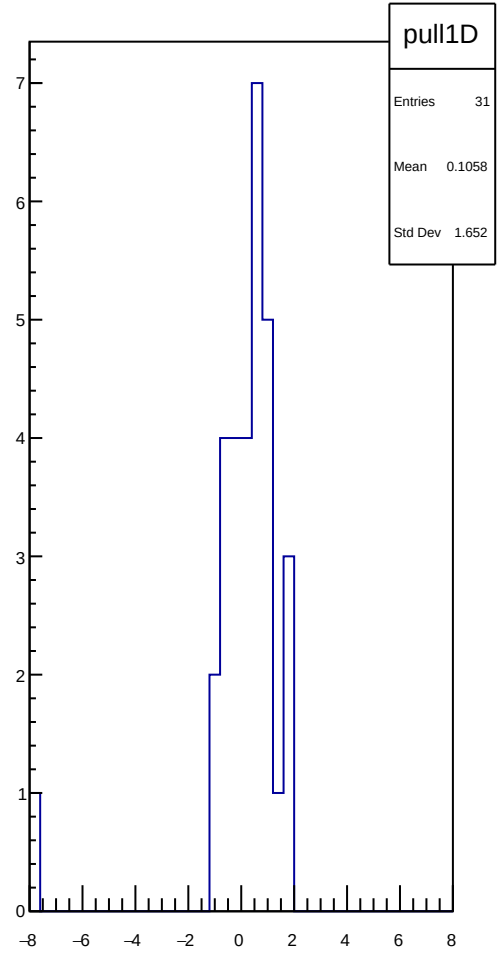

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.91 / 30
p0 4.744 ± 2.376
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1.652
Std Dev 11.85
4
3
2
1
0
−1
−2

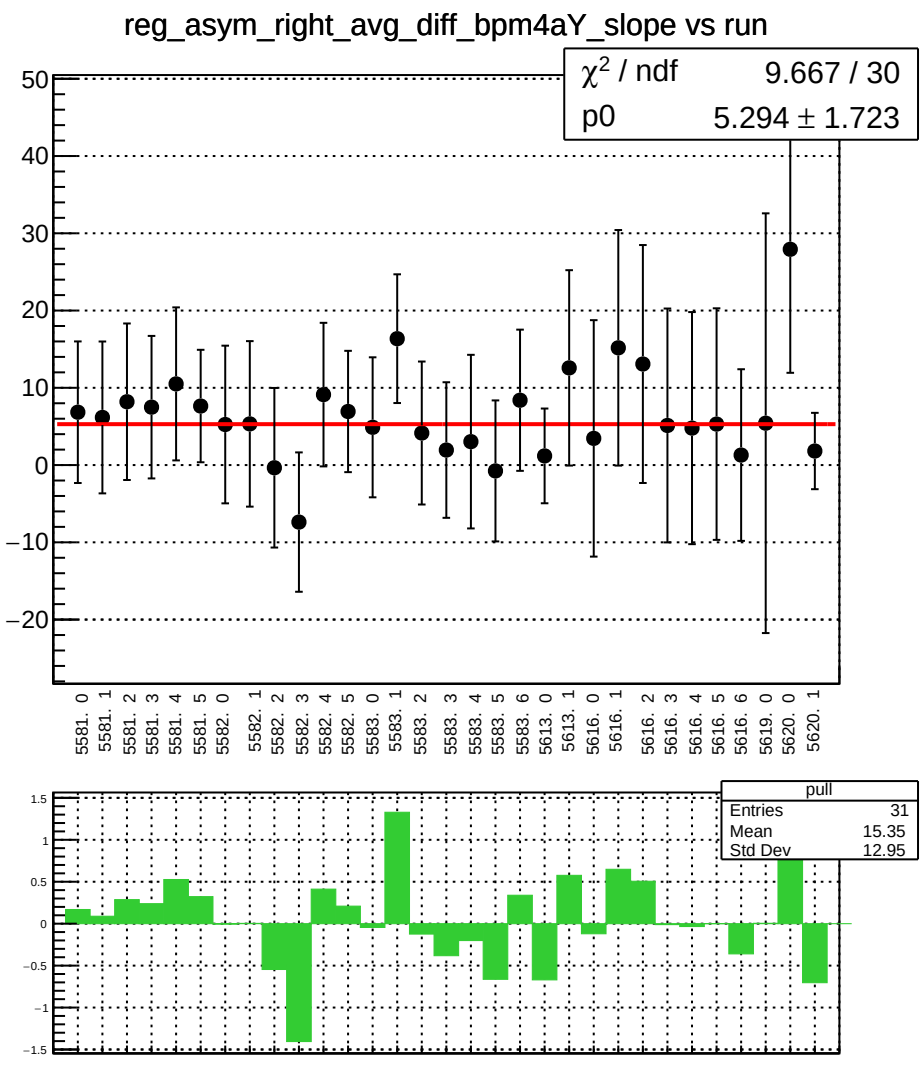

pull1D
Entries 31
Mean −0.09923
Std Dev 1.057
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

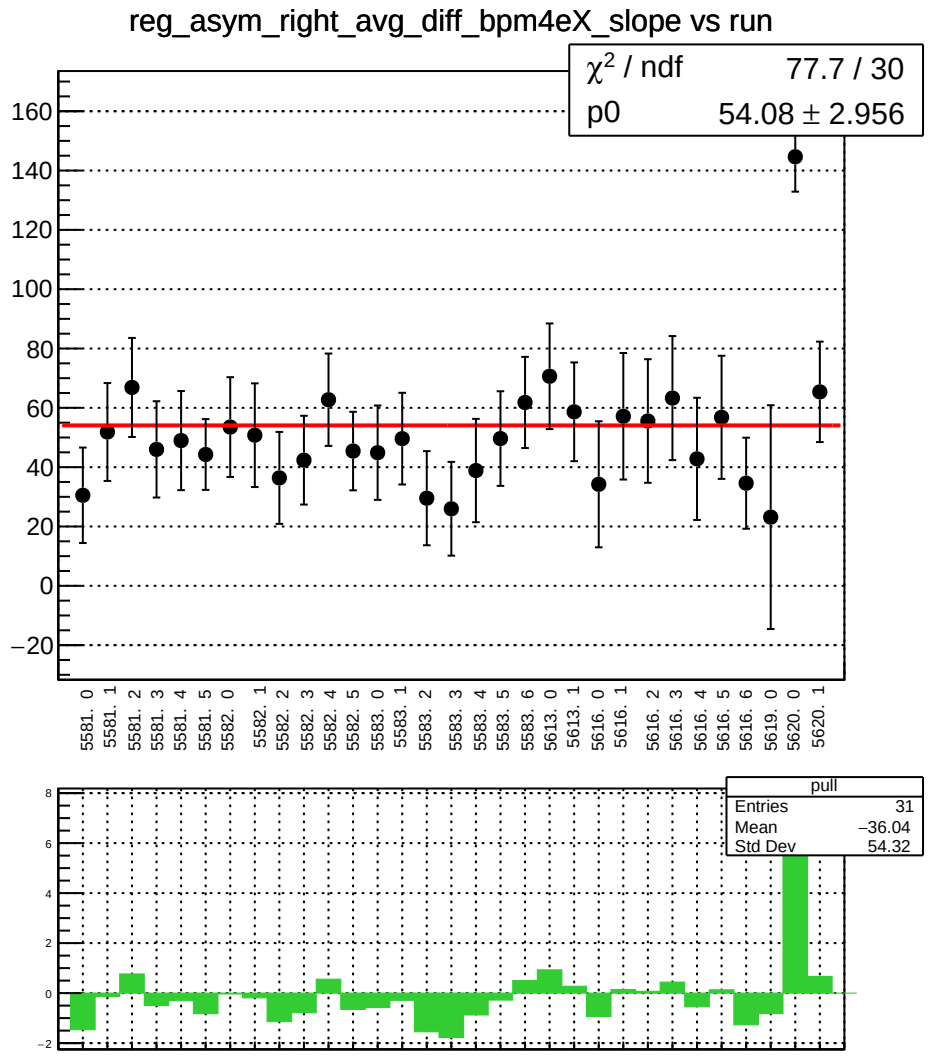

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.04 / 30
p0 4.199 ± 1.833
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 0.06385
Std Dev 13.78
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 31
Mean −0.04039
Std Dev 0.5953
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

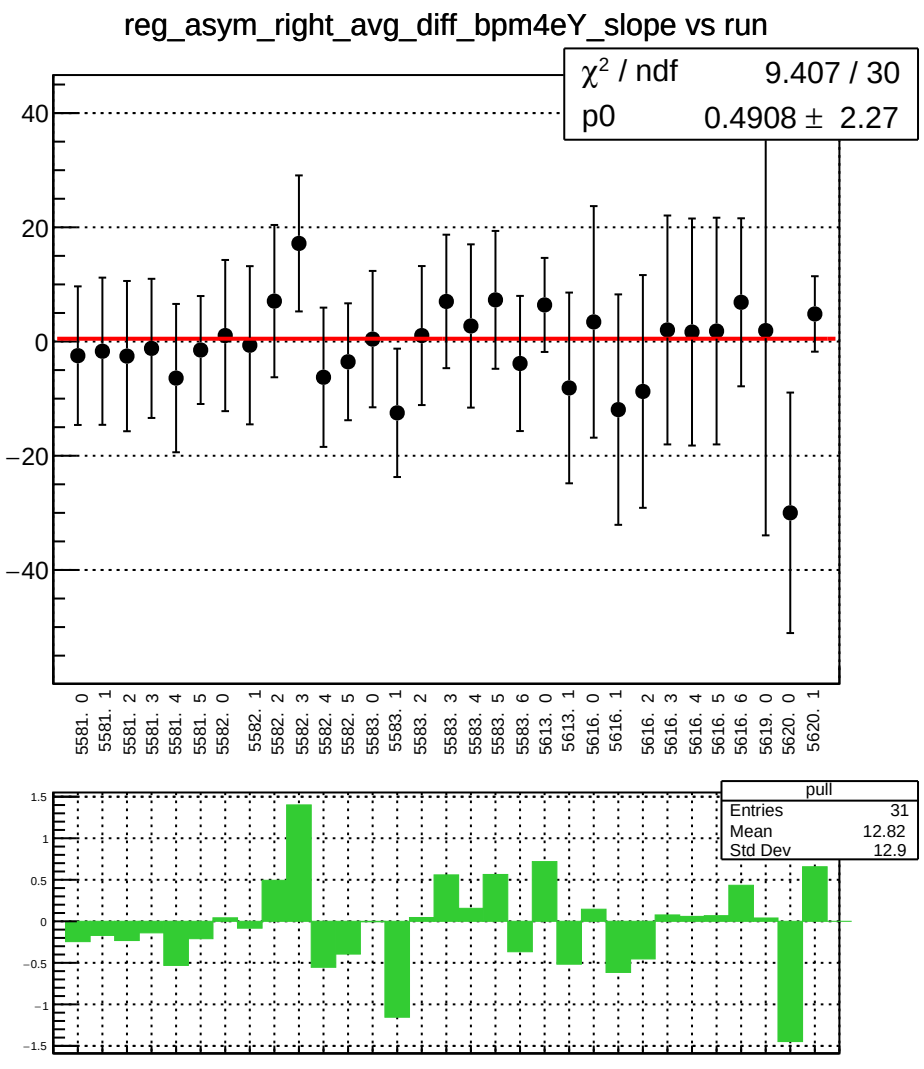

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 720.5 / 30
p0 −18.55 ± 0.06182
−16
−17
−18
−19
−20
−21
−22
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −40.42
Std Dev 56.88
8
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean −0.4753
Std Dev 4.297
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

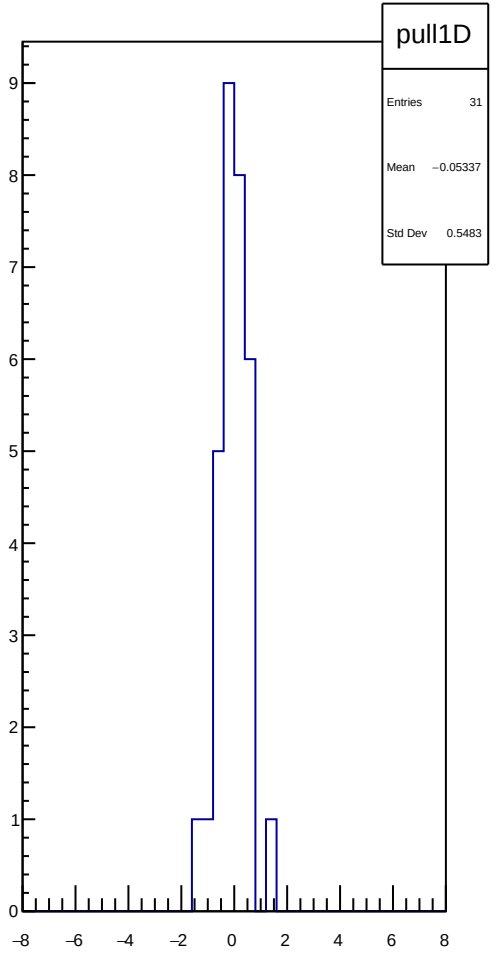

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 84.91 / 30
p0 −12.54 ± 3.024
pull
Entries 31
Mean −42.27
Std Dev 60.1

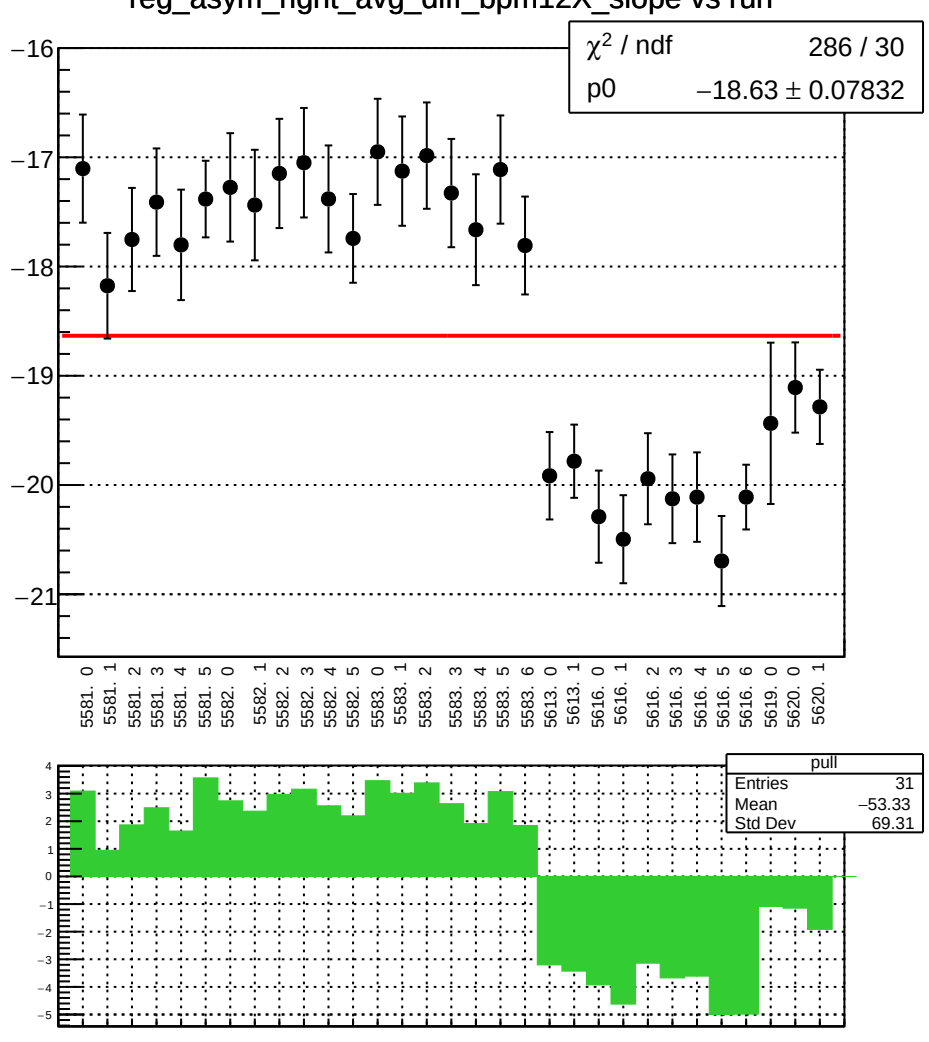

pull1D
Entries 31
Mean 0.1058
Std Dev 1.652

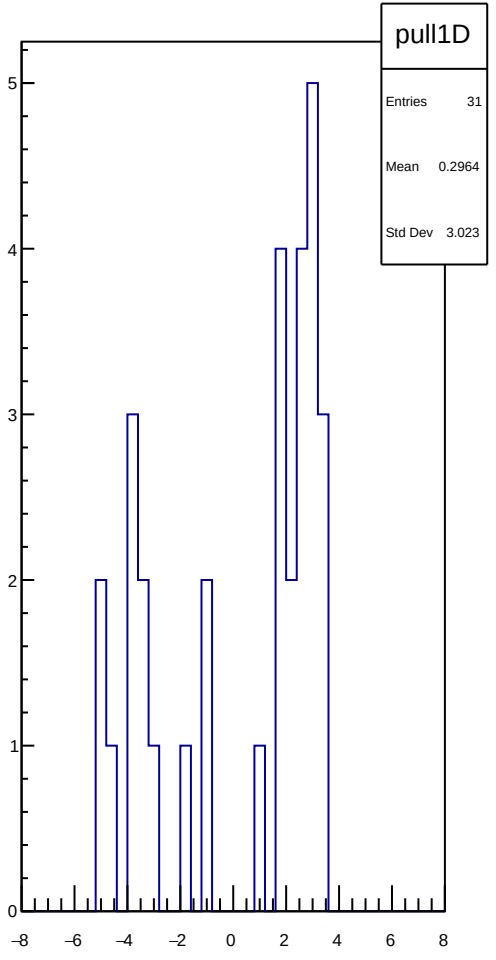

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.667 / 30
p0 5.294 ± 1.723
50
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.35
Std Dev 12.95
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.0582
Std Dev 0.5554
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

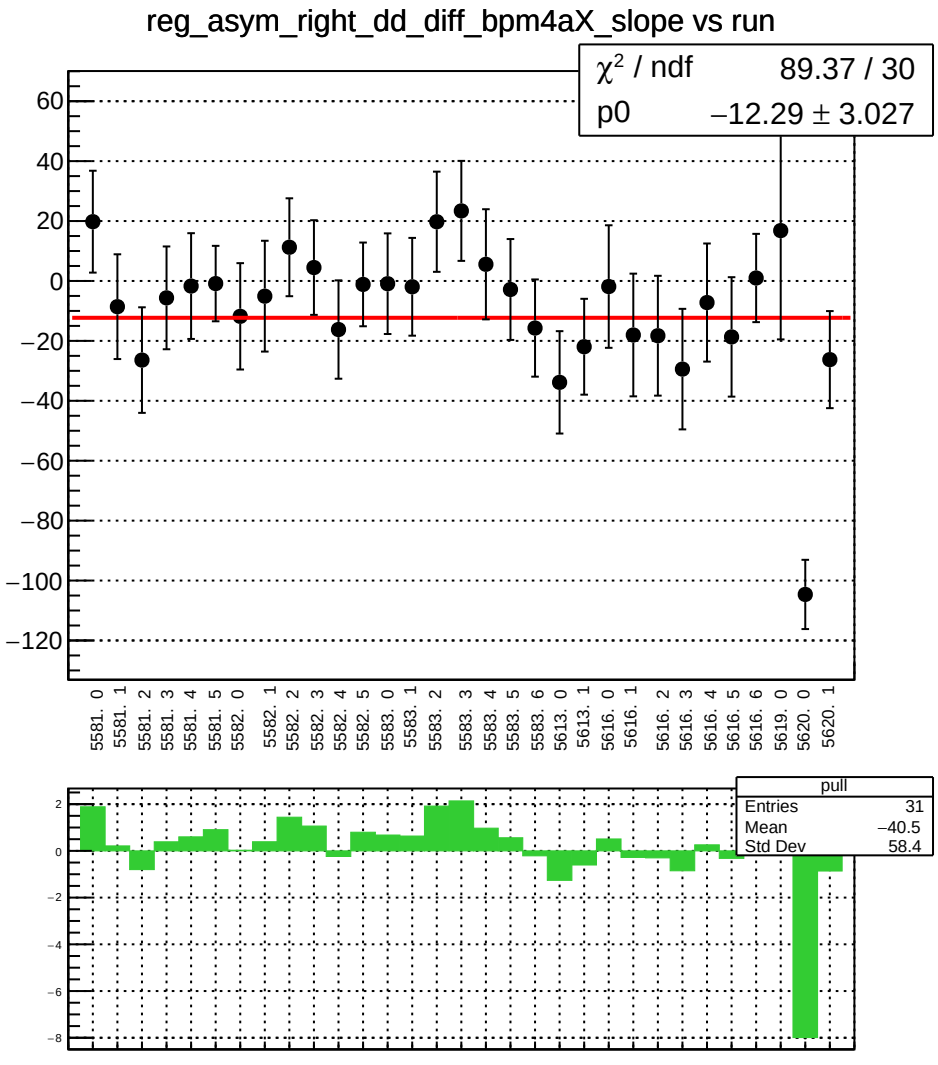

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.7 / 30
p0 54.08 ± 2.956
160
140
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −36.04
Std Dev 54.32
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.08919
Std Dev 1.581
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

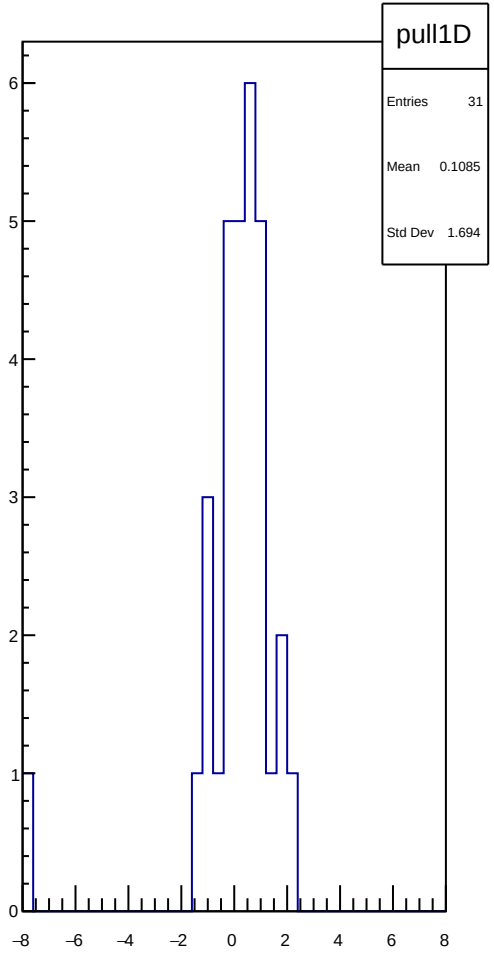

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.407 / 30
p0 0.4908 ± 2.27
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 12.82
Std Dev 12.9
1.5
1
0.5
0
−0.5
−1
−1.5

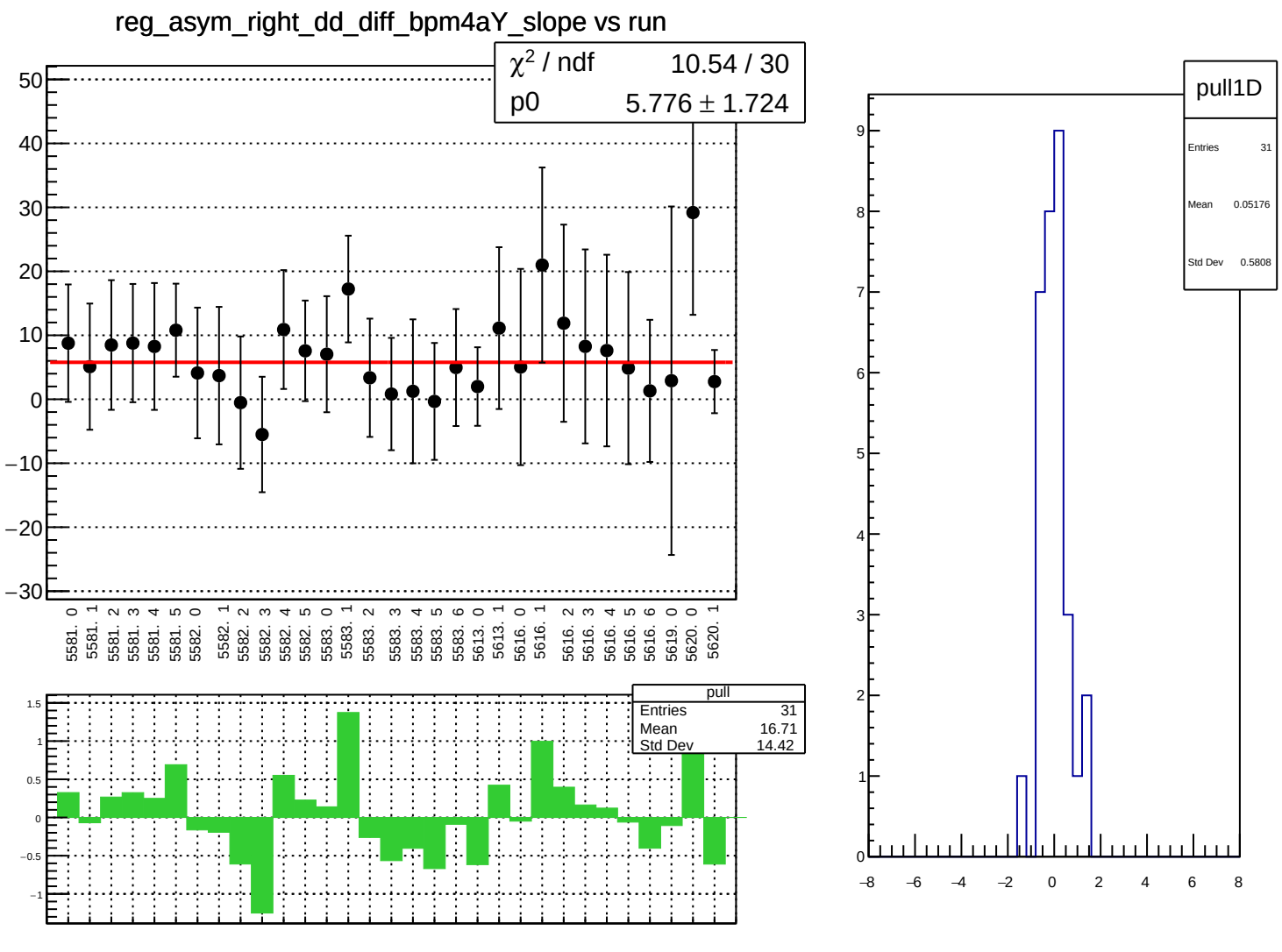

pull1D
Entries 31
Mean −0.05337
Std Dev 0.5483
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

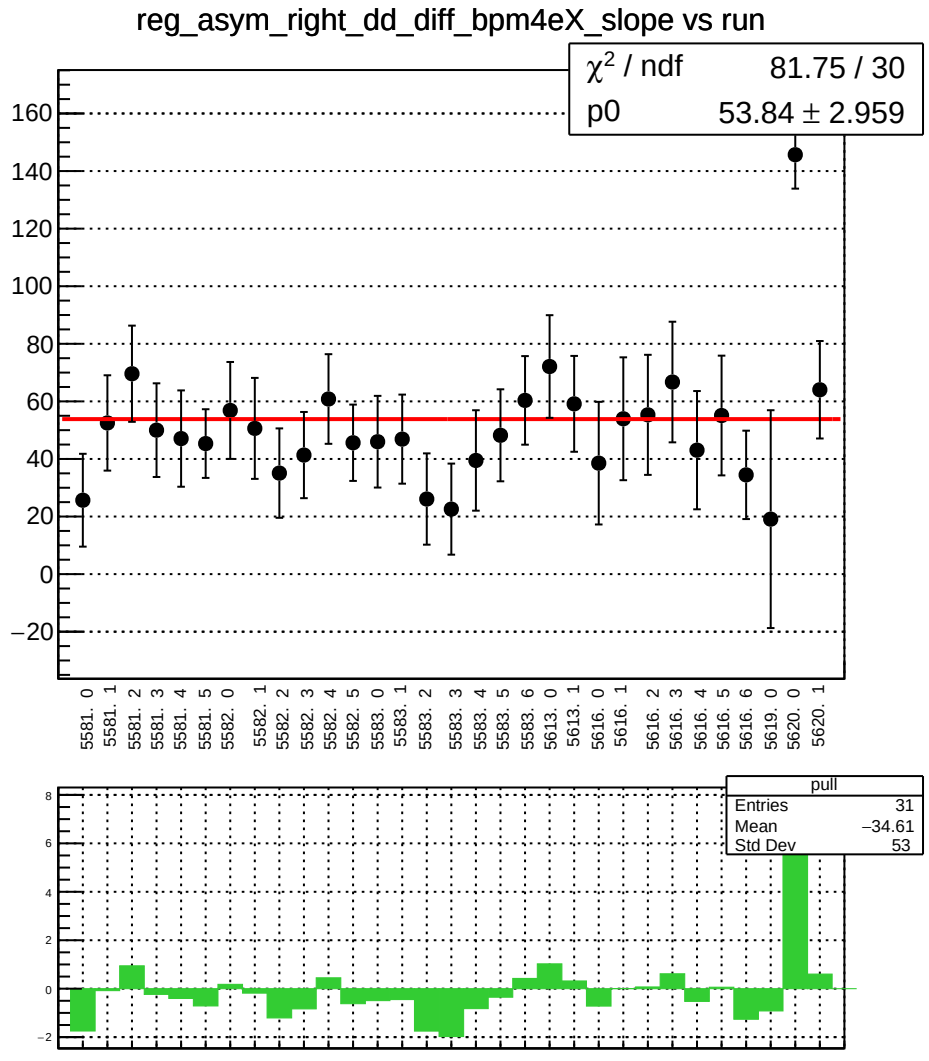

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 286 / 30
p0 −18.63 ± 0.07832
−16
−17
−18
−19
−20
−21
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −53.33
Std Dev 69.31
4
3
2
1
0
−1
−2
−3
−4
−5

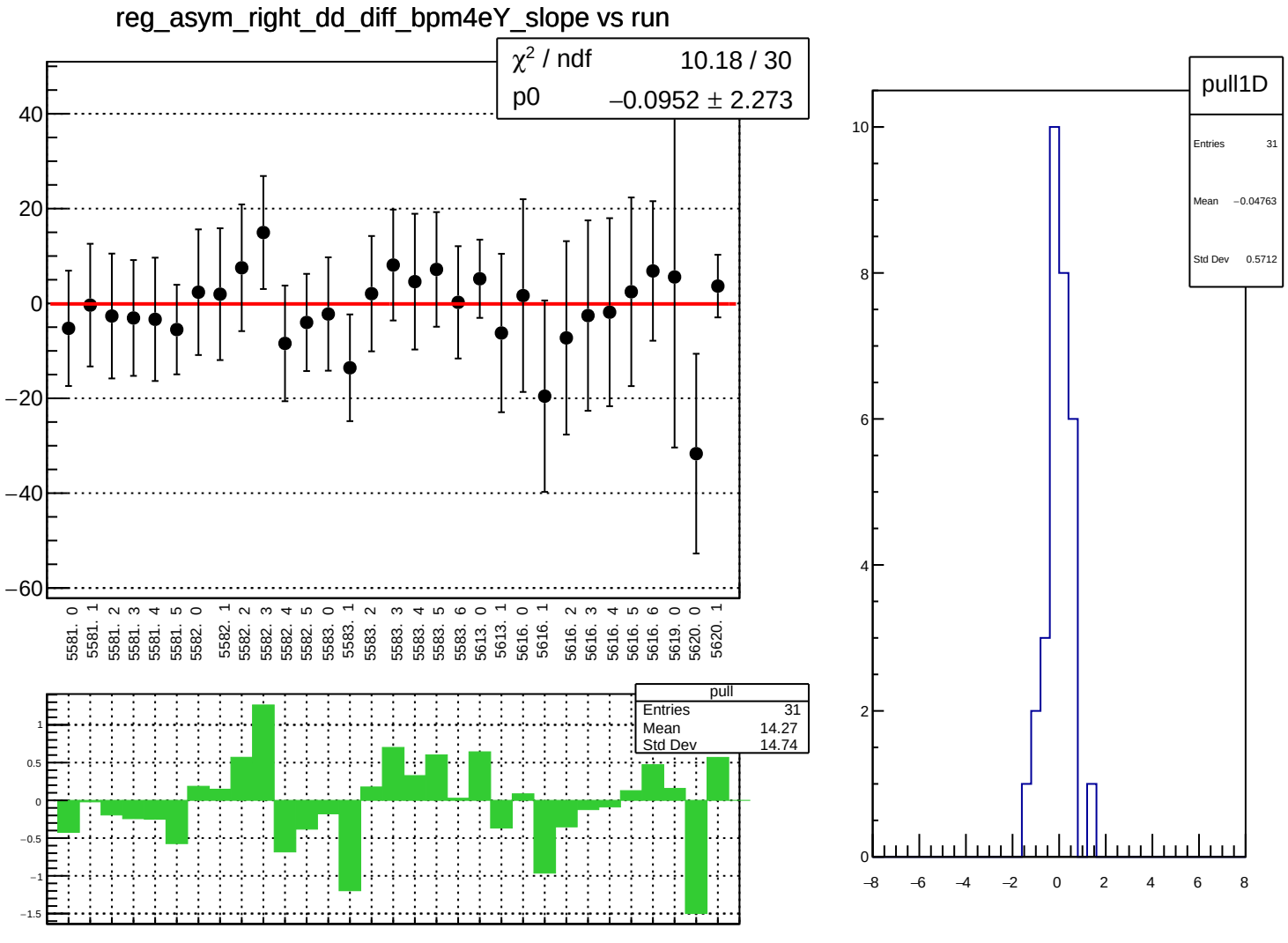

pull1D
Entries 31
Mean 0.2964
Std Dev 3.023
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

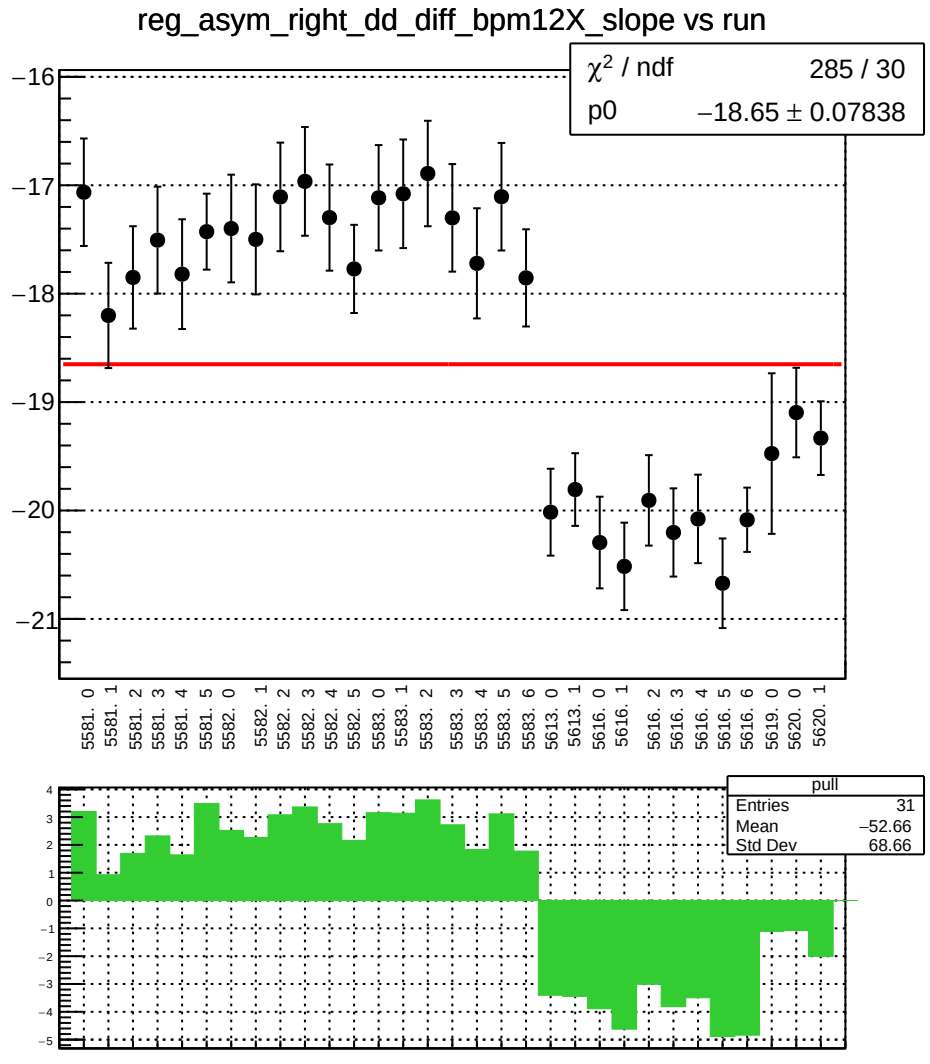

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 89.37 / 30
p0 −12.29 ± 3.027
pull
Entries 31
Mean −40.5
Std Dev 58.4

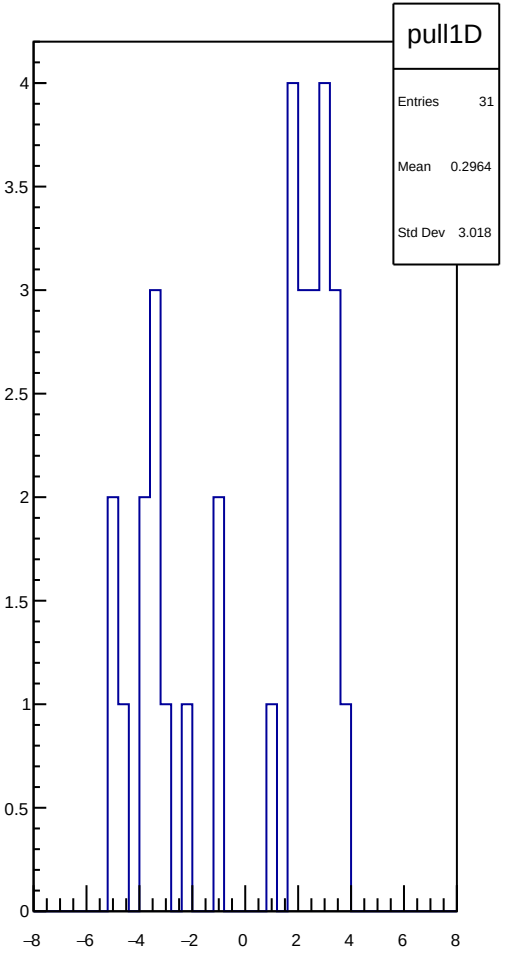

pull1D
Entries 31
Mean 0.1085
Std Dev 1.694

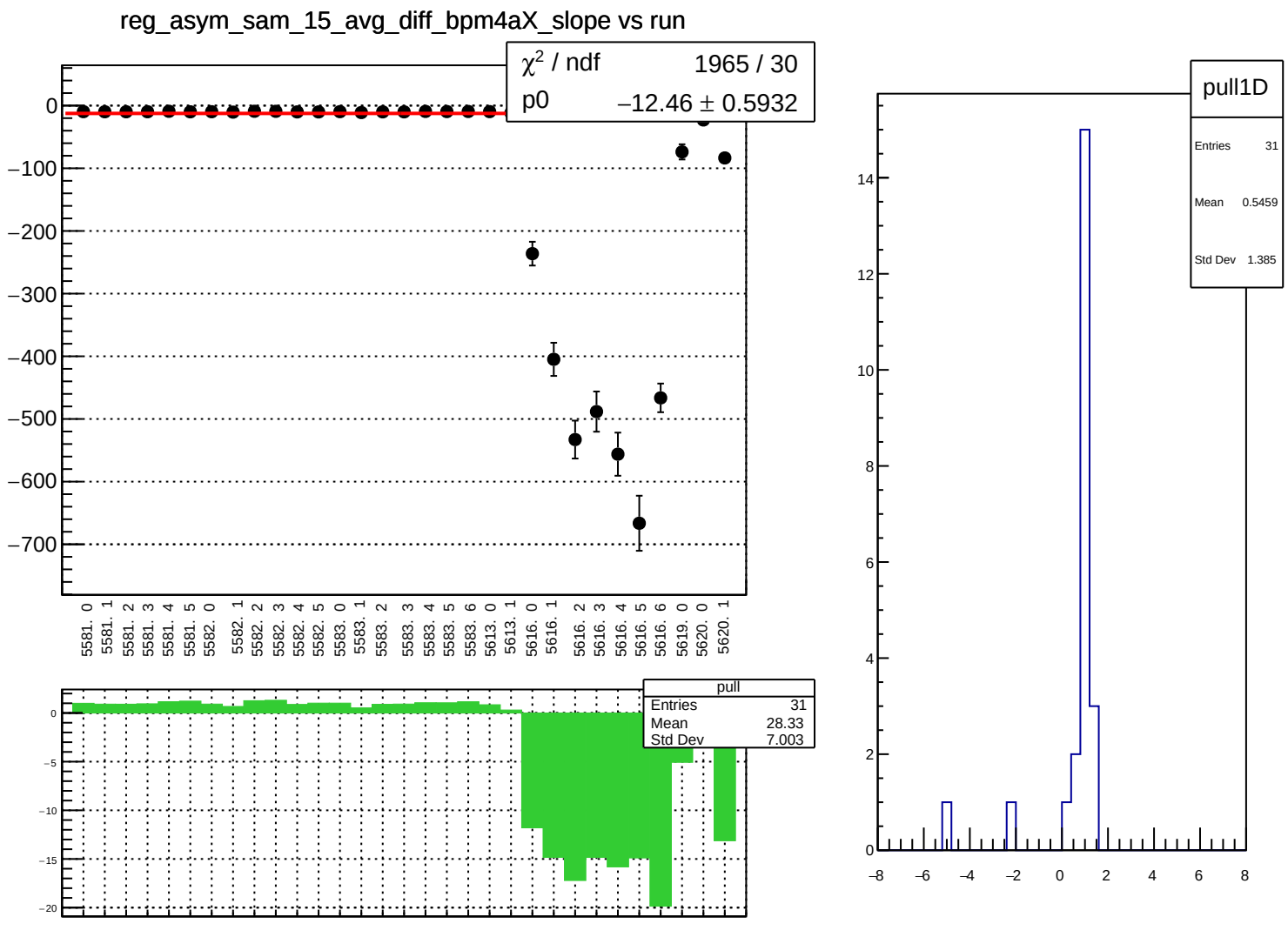

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.54 / 30
p0 5.776 ± 1.724
pull
Entries 31
Mean 16.71
Std Dev 14.42
pull1D
Entries 31
Mean 0.05176
Std Dev 0.5808

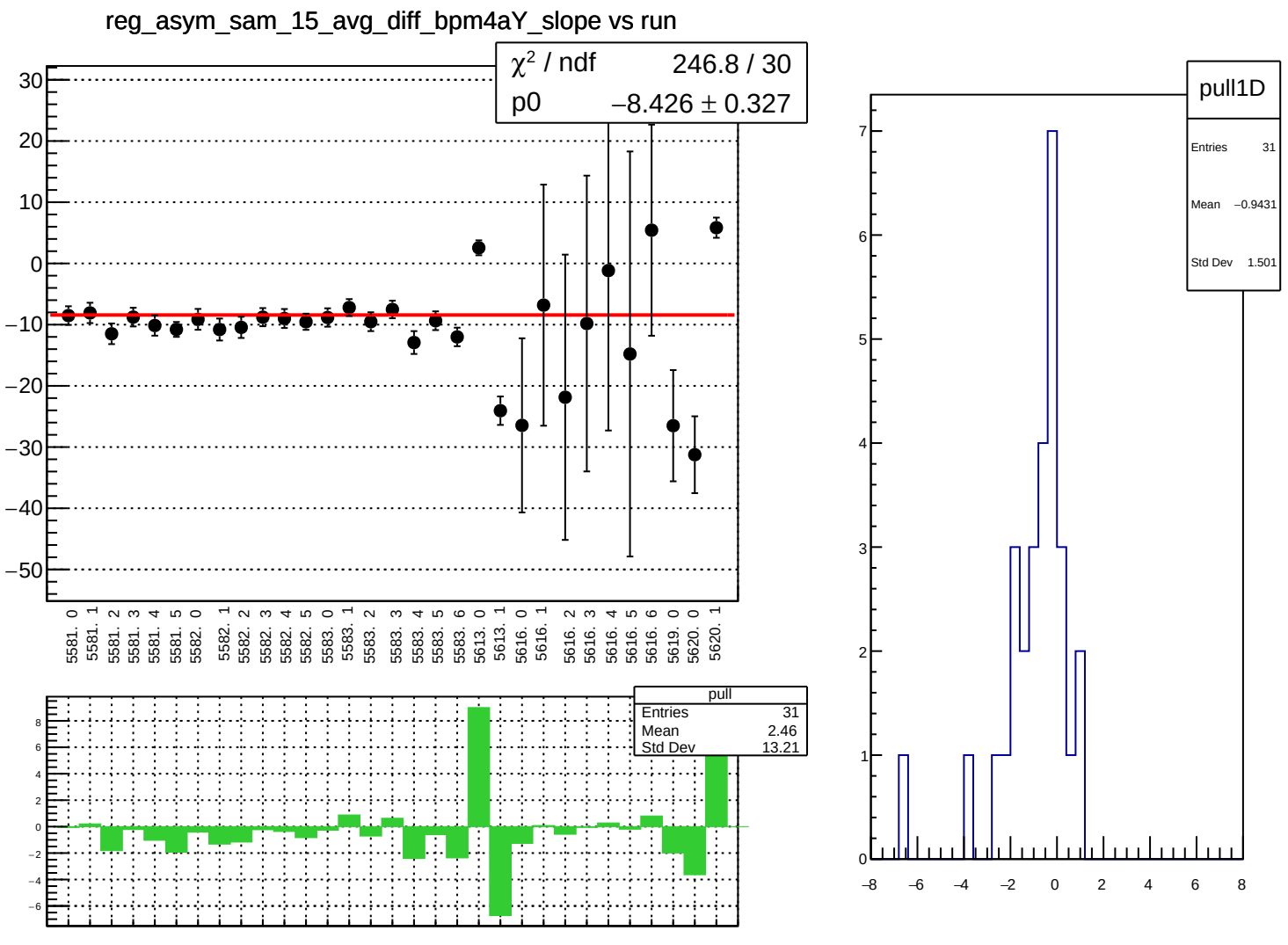

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.75 / 30
p0 53.84 ± 2.959
160
140
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −34.61
Std Dev 53
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.0907
Std Dev 1.621
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

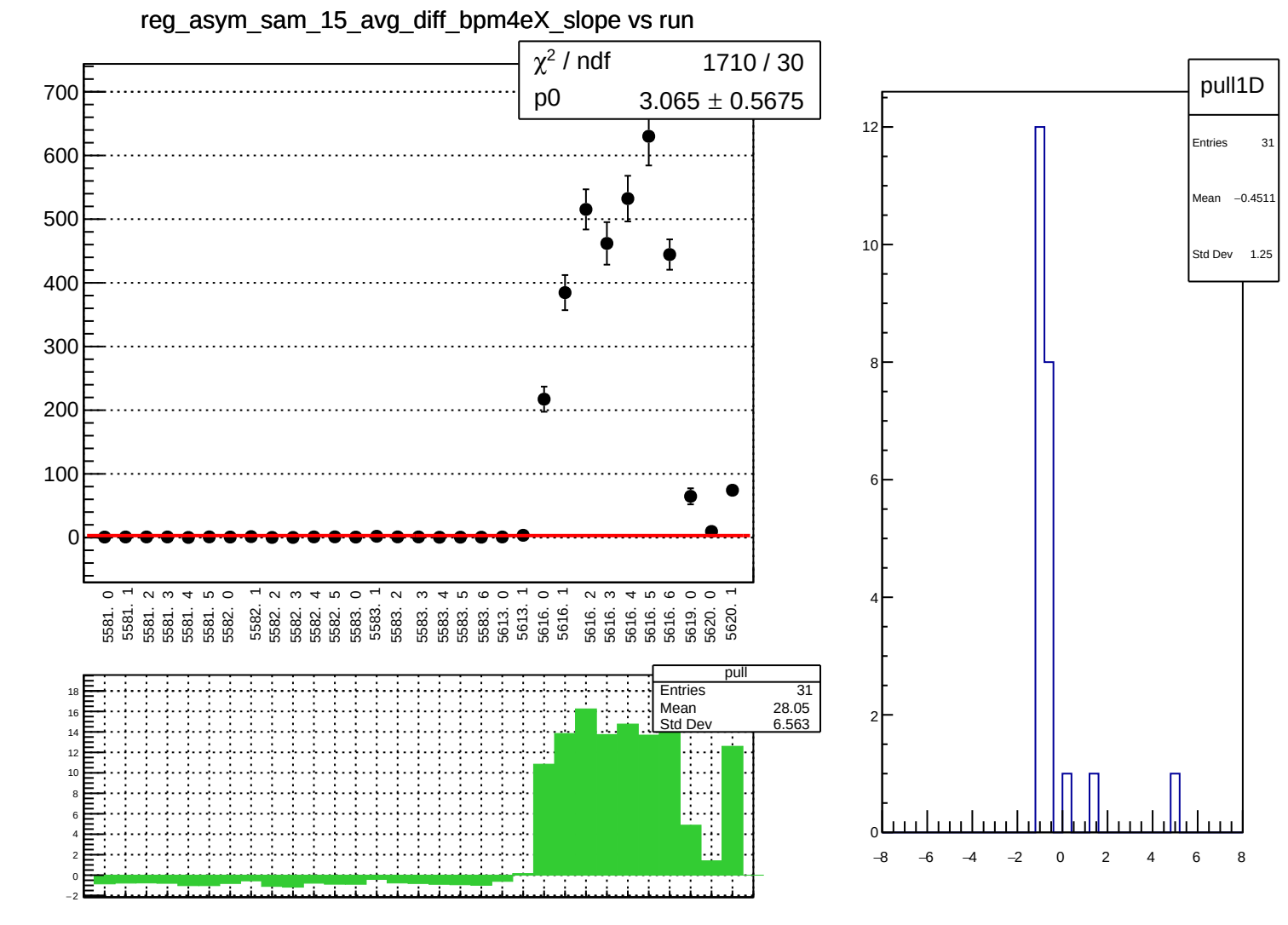

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.18 / 30
p0 −0.0952 ± 2.273
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 14.27
Std Dev 14.74
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.04763
Std Dev 0.5712
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

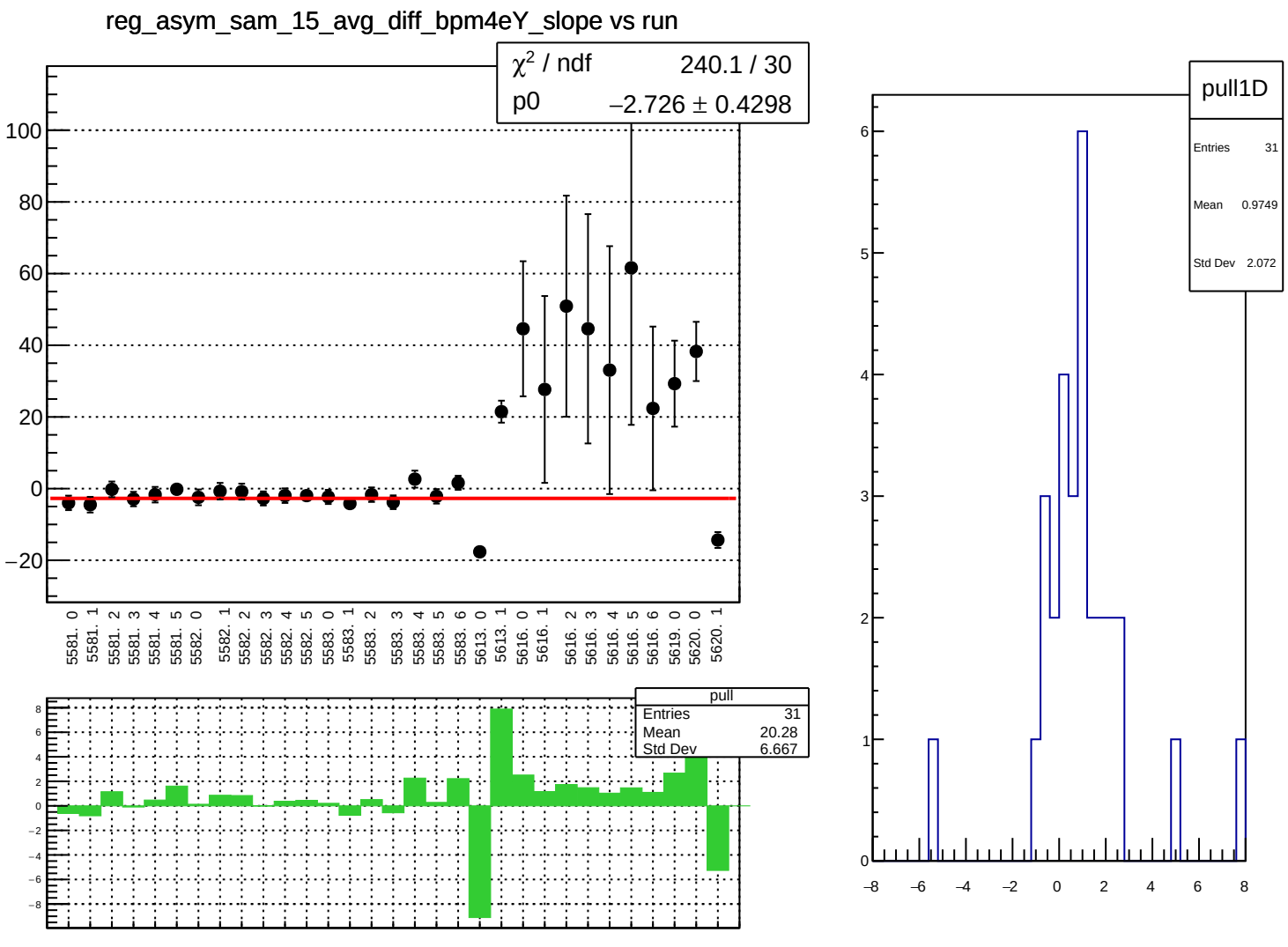

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 285 / 30
p0 −18.65 ± 0.07838
−16
−17
−18
−19
−20
−21
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −52.66
Std Dev 68.66
4
3
2
1
0
−1
−2
−3
−4
−5

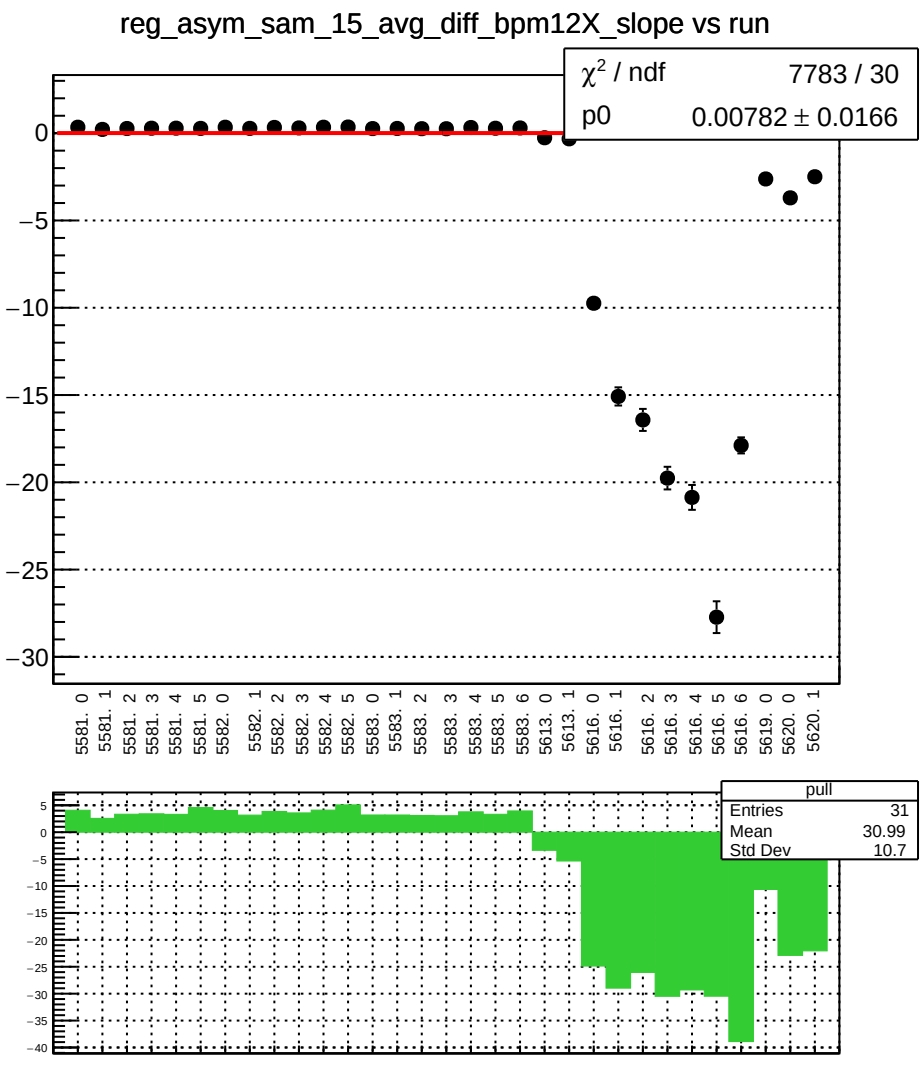

pull1D
Entries 31
Mean 0.2964
Std Dev 3.018
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

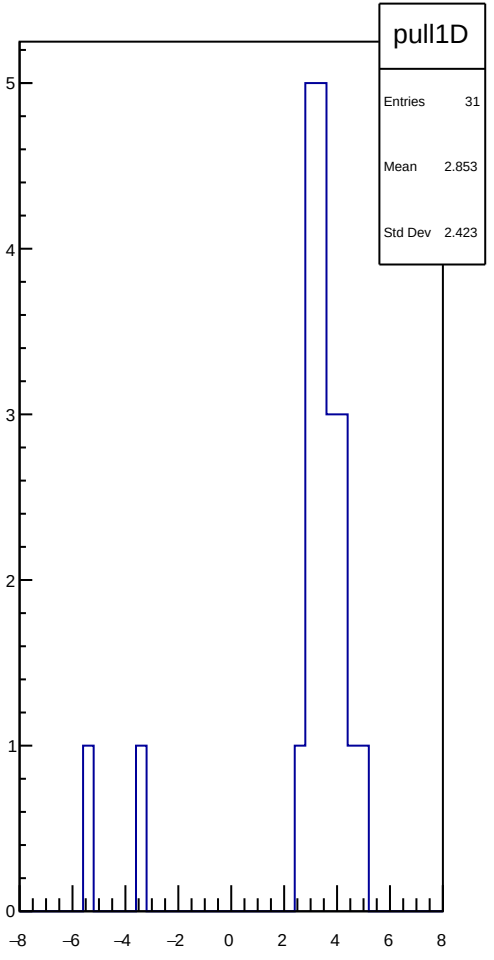

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 1965 / 30
p0 −12.46 ± 0.5932
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 28.33
Std Dev 7.003
0
−5
−10
−15
−20
pull1D
Entries 31
Mean 0.5459
Std Dev 1.385
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

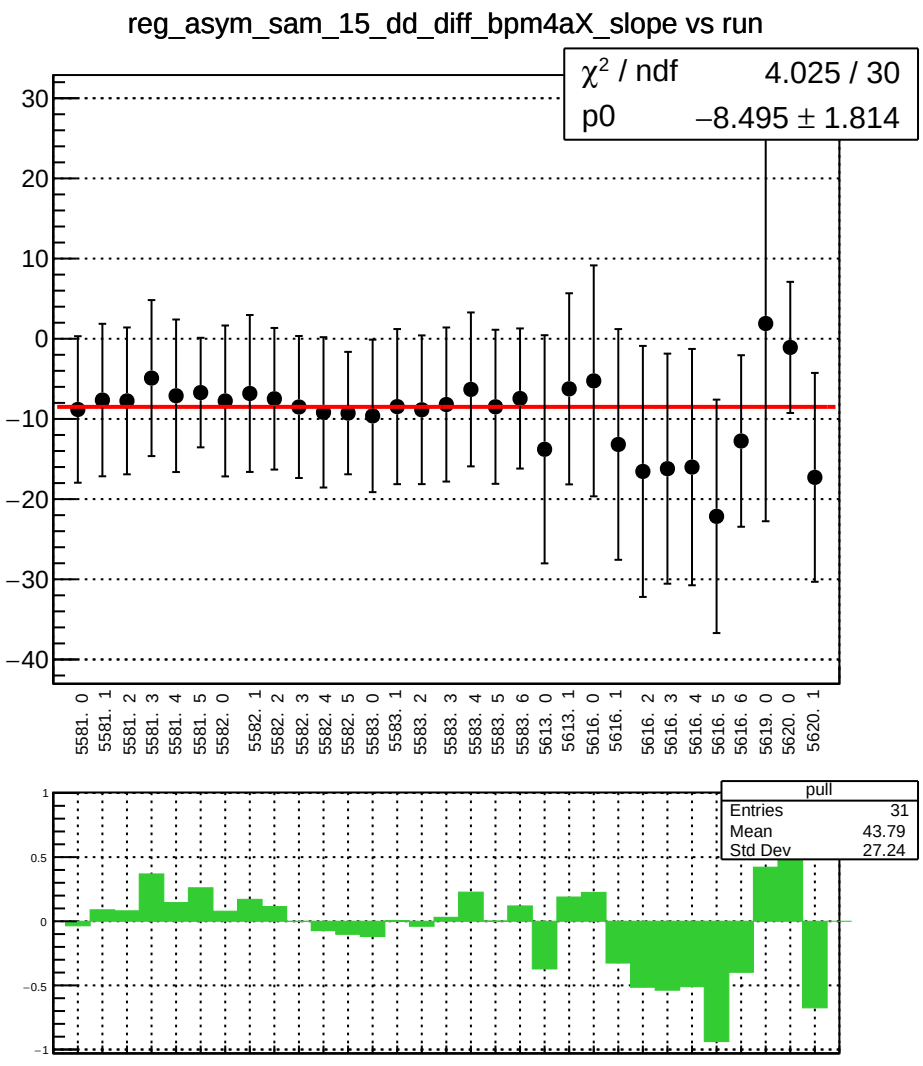

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 246.8 / 30
p0 −8.426 ± 0.327
pull
Entries 31
Mean 2.46
Std Dev 13.21
pull1D
Entries 31
Mean −0.9431
Std Dev 1.501

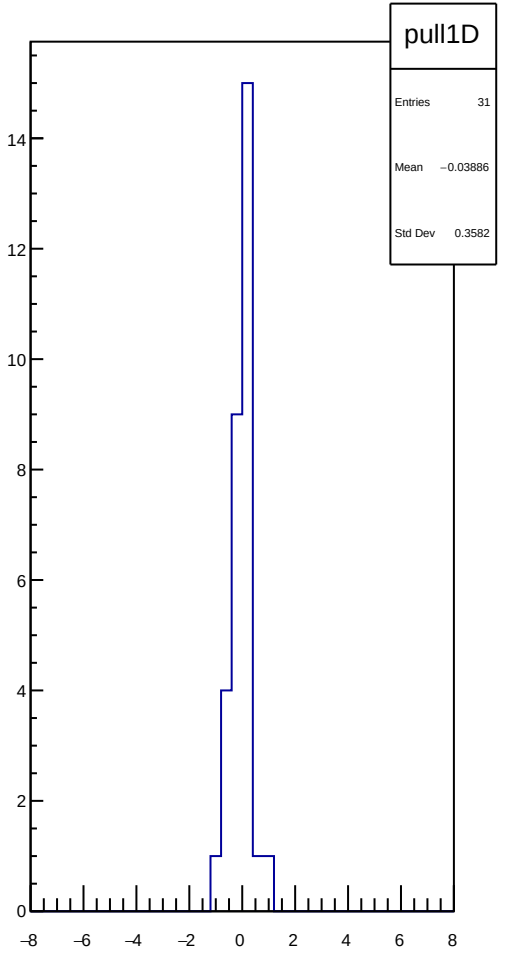

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1710 / 30
p0 3.065 ± 0.5675
pull
Entries 31
Mean 28.05
Std Dev 6.563
pull1D
Entries 31
Mean −0.4511
Std Dev 1.25

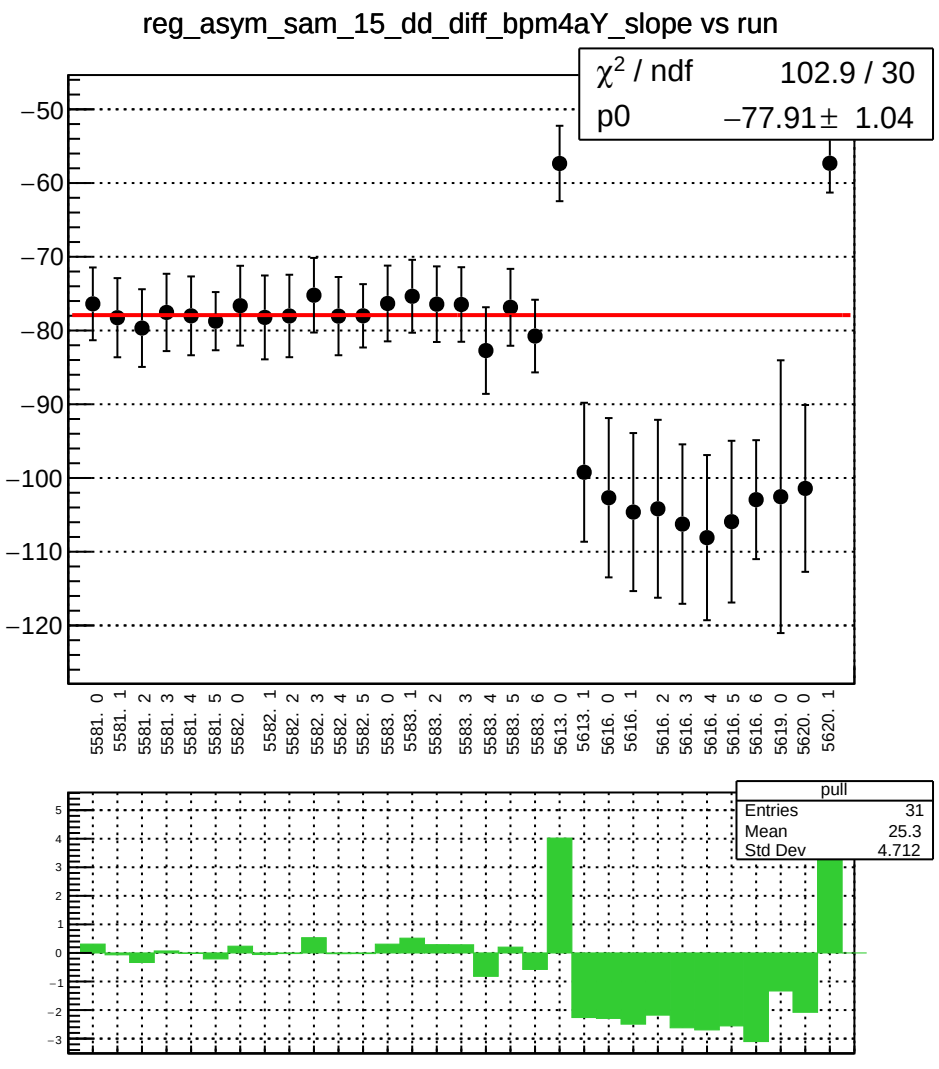

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 240.1 / 30
p0 −2.726 ± 0.4298
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.28
Std Dev 6.667
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean 0.9749
Std Dev 2.072
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

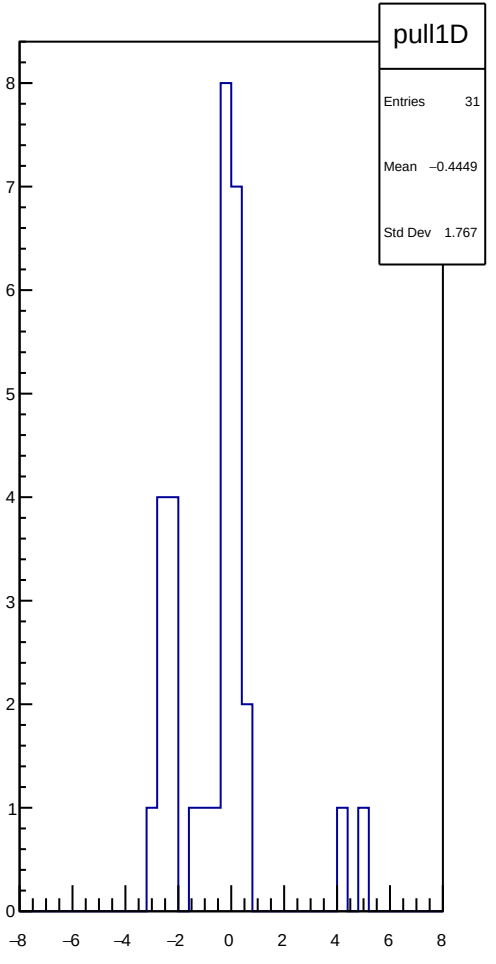

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 7783 / 30
p0 0.00782 ± 0.0166
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.99
Std Dev 10.7
5
0
−5
−10
−15
−20
−25
−30
−35
−40

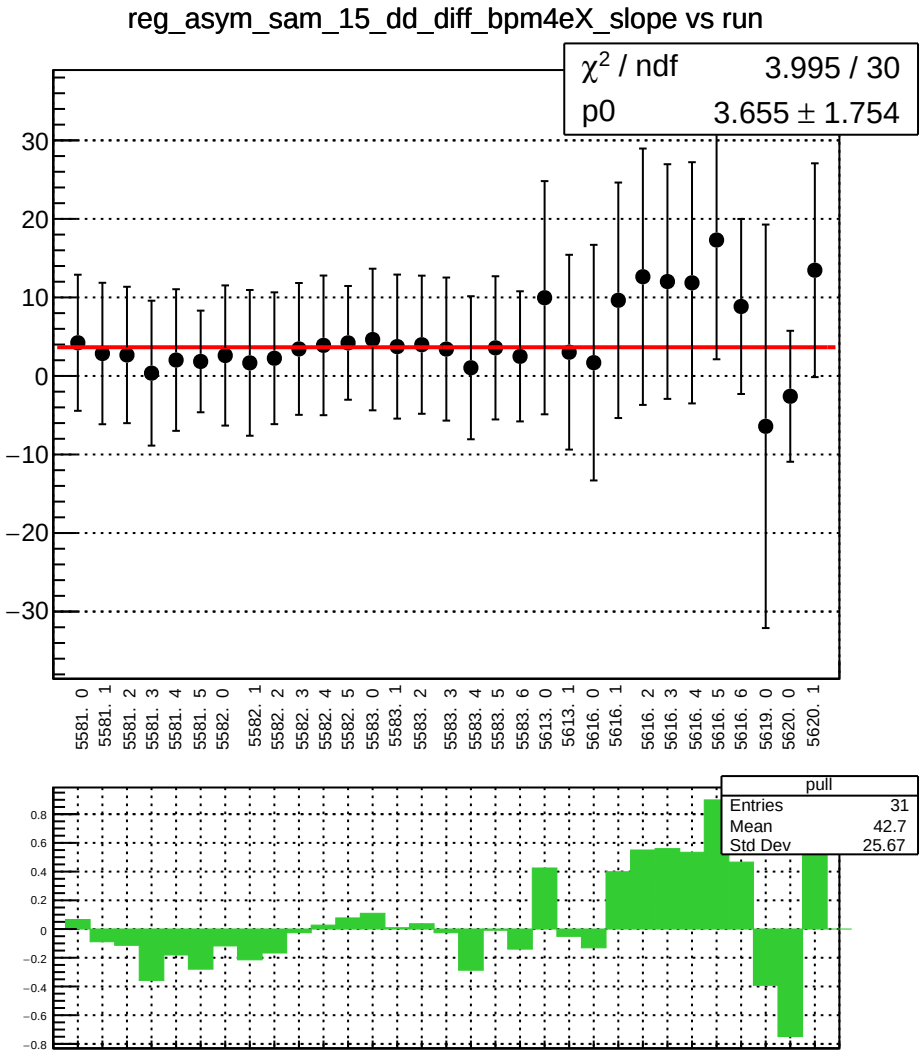

pull1D
Entries 31
Mean 2.853
Std Dev 2.423
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

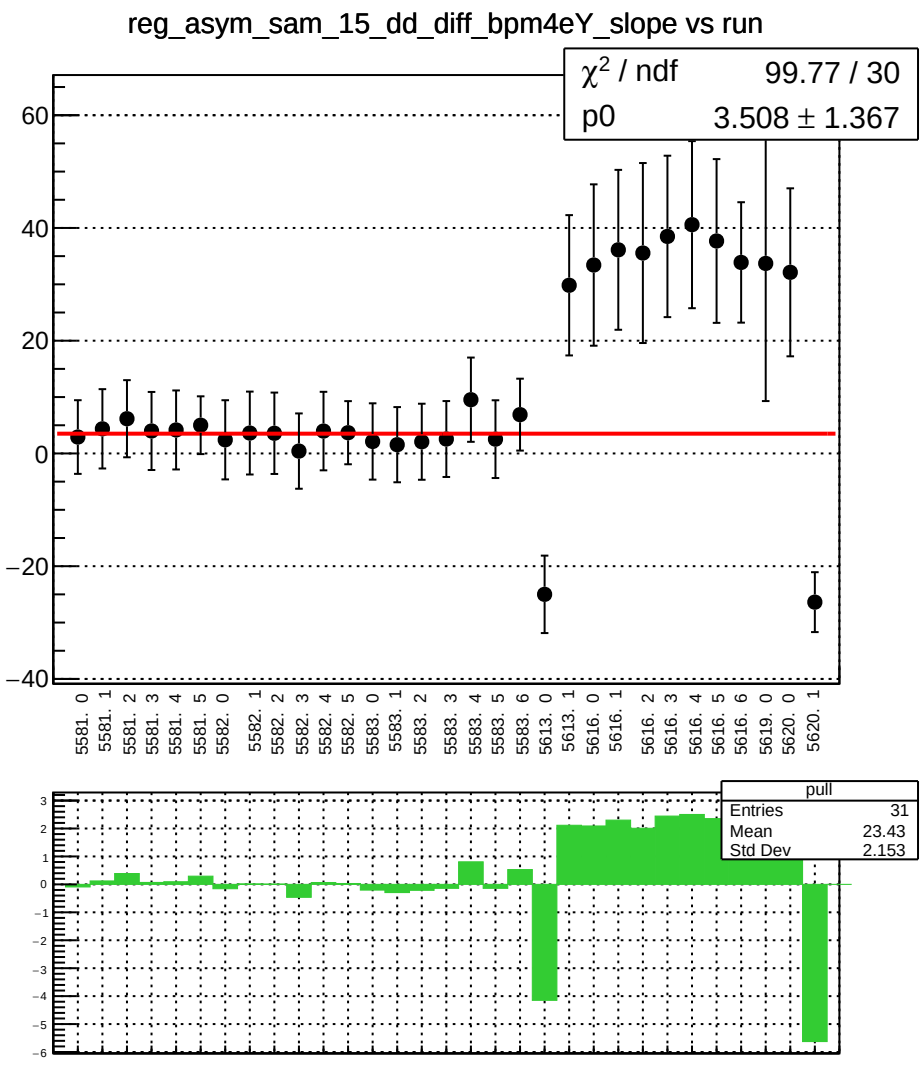

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.025 / 30
p0 −8.495 ± 1.814
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.79
Std Dev 27.24
1
0.5
0
−0.5
−1

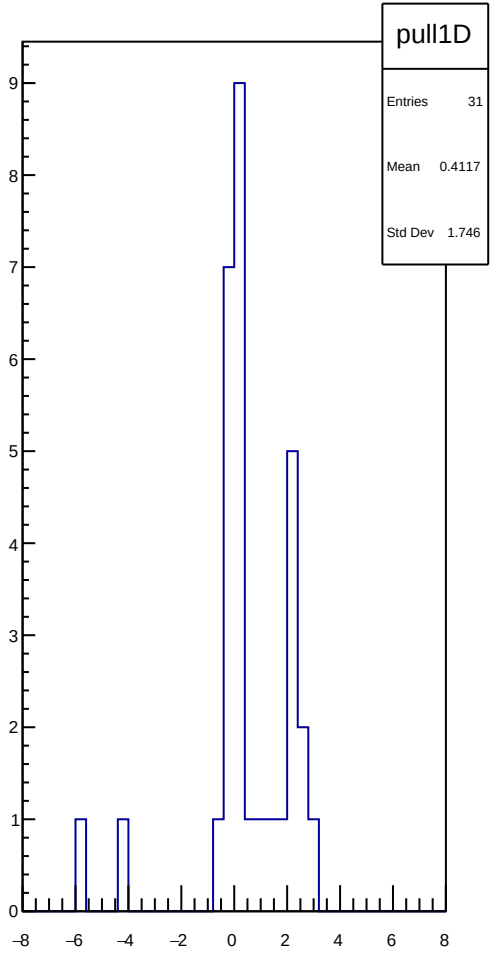

pull1D
Entries 31
Mean −0.03886
Std Dev 0.3582
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

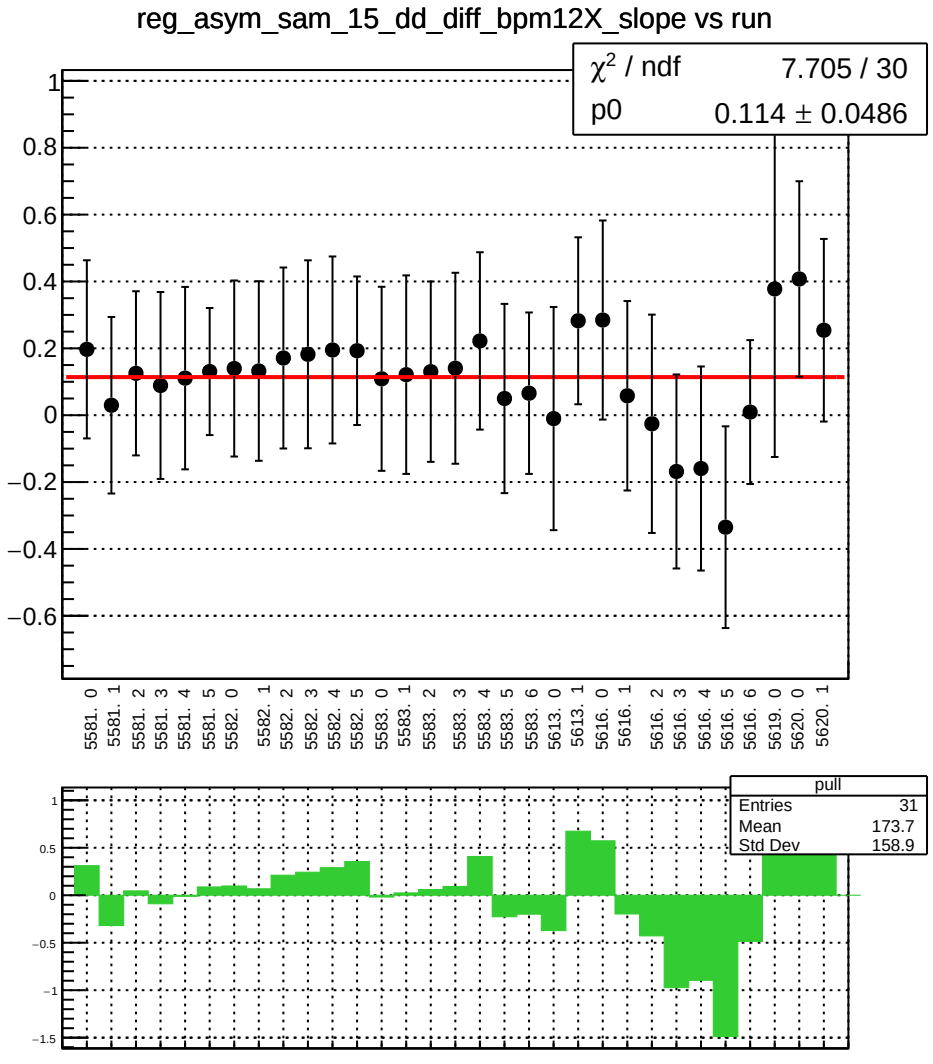

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 102.9 / 30
p0 −77.91± 1.04
−50
−60
−70
−80
−90
−100
−110
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 25.3
Std Dev 4.712
5
4
3
2
1
0
−1
−2
−3

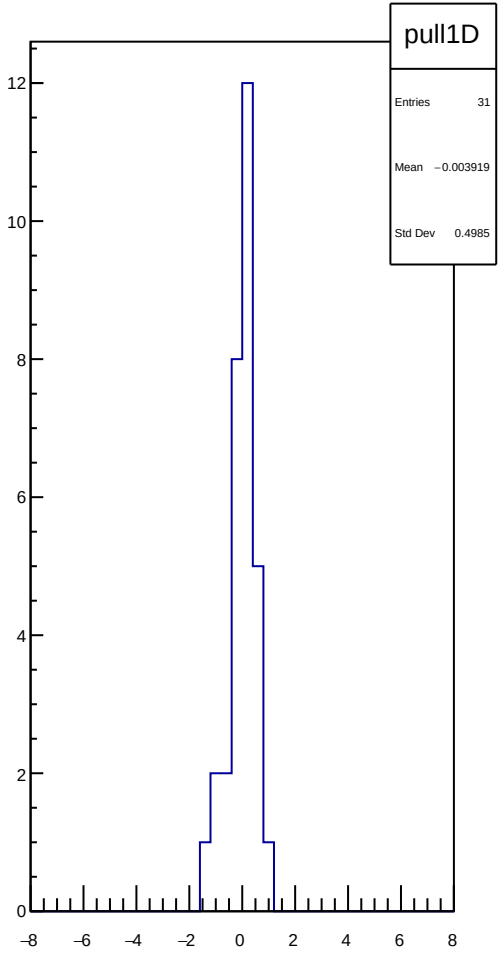

pull1D
Entries 31
Mean −0.4449
Std Dev 1.767
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

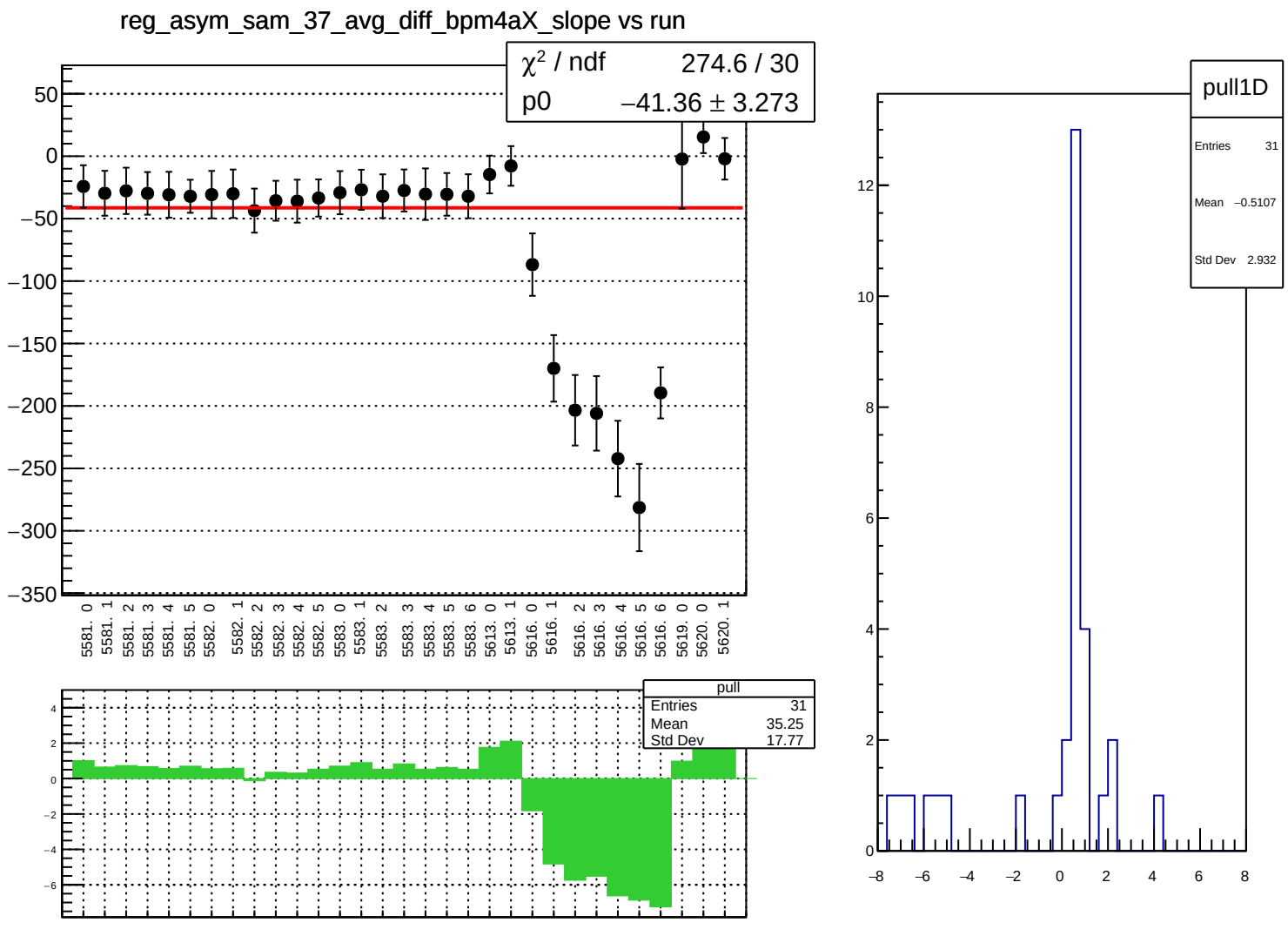

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.995 / 30
p0 3.655 ± 1.754
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.7
Std Dev 25.67
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean 0.05016
Std Dev 0.3554
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

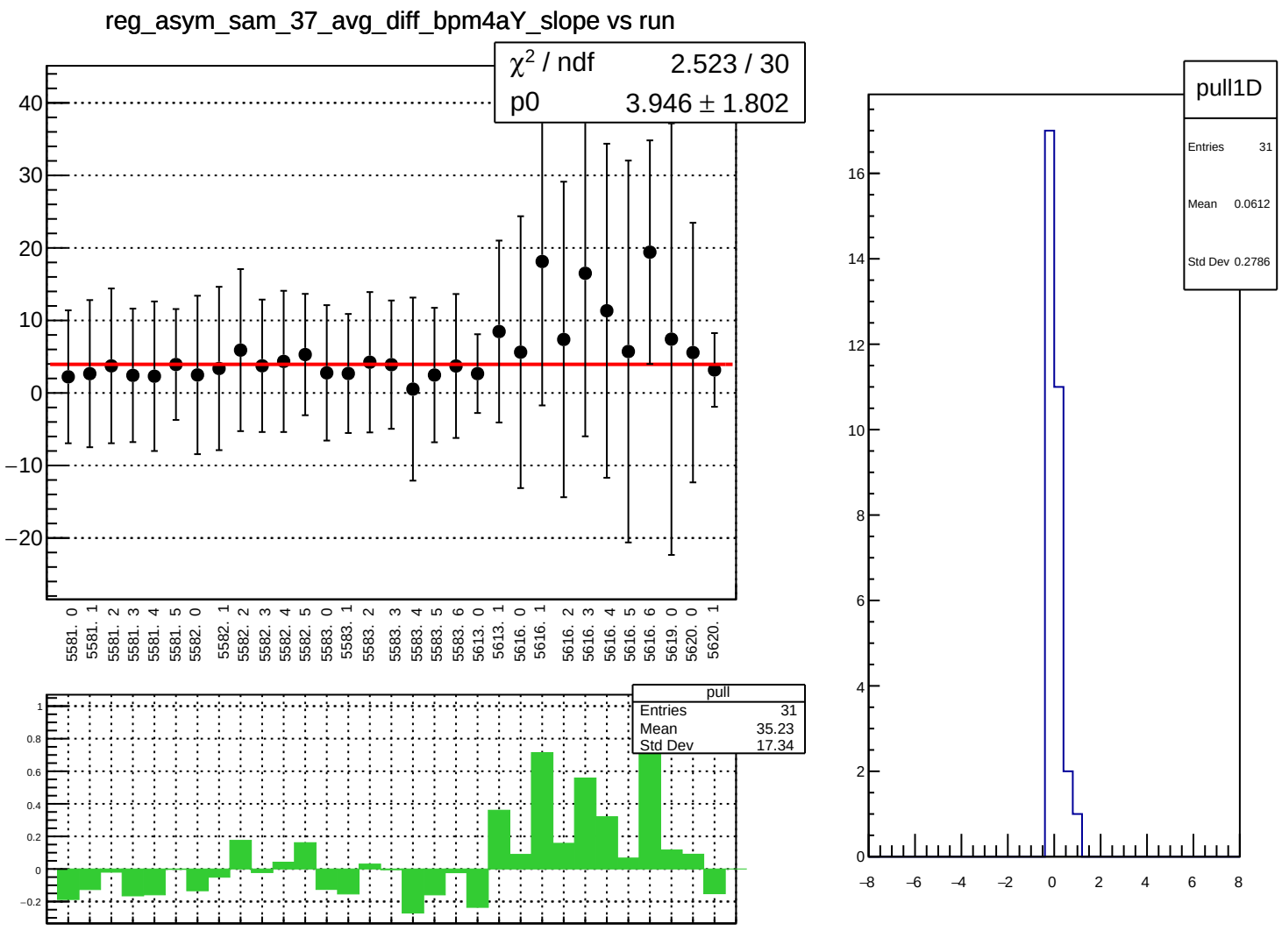

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.77 / 30
p0 3.508 ± 1.367
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 23.43
Std Dev 2.153
3
2
1
0
−1
−2
−3
−4
−5
−6

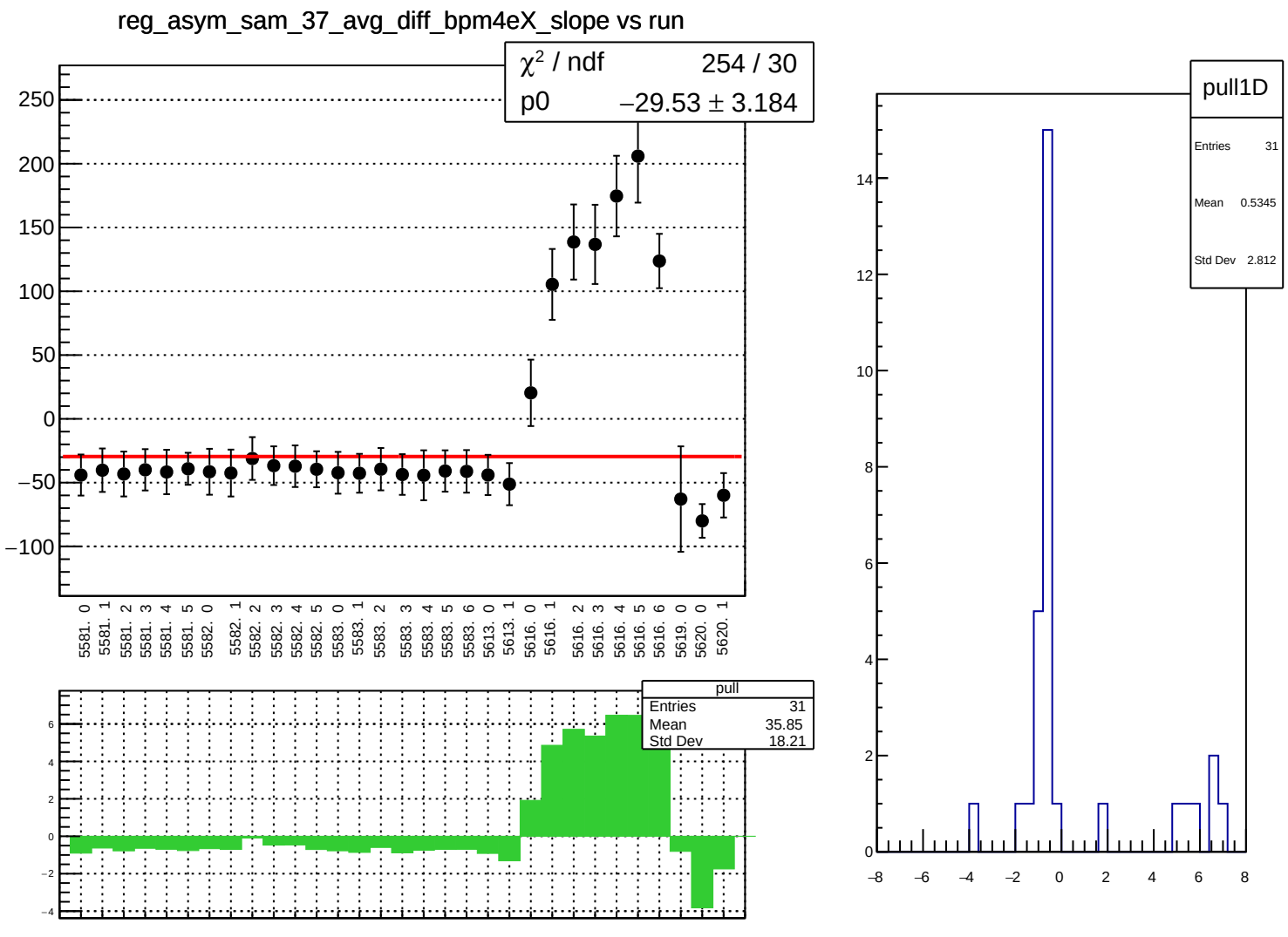

pull1D
Entries 31
Mean 0.4117
Std Dev 1.746
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

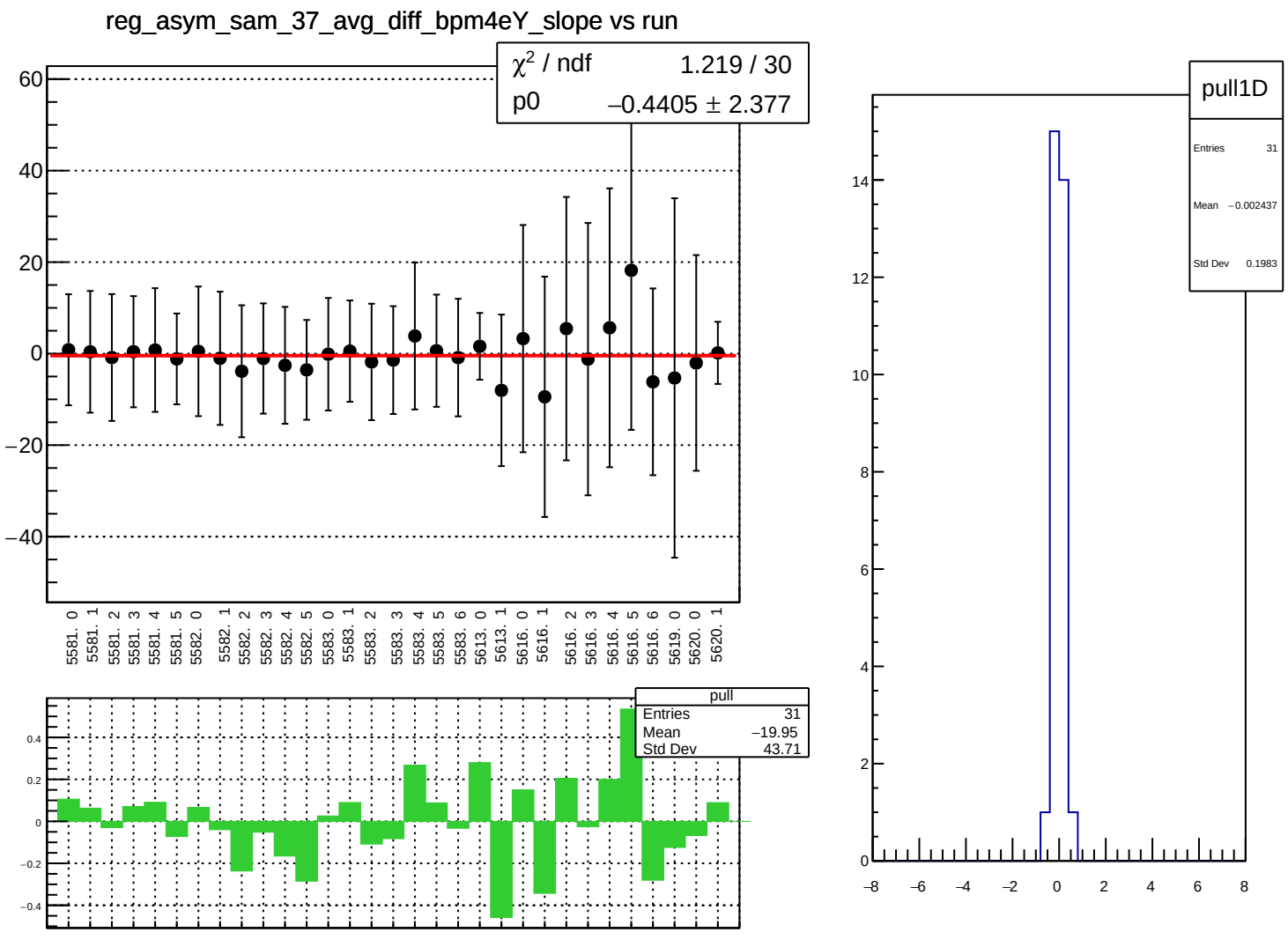

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 7.705 / 30
p0 0.114 ± 0.0486
pull
Entries 31
Mean 173.7
Std Dev 158.9

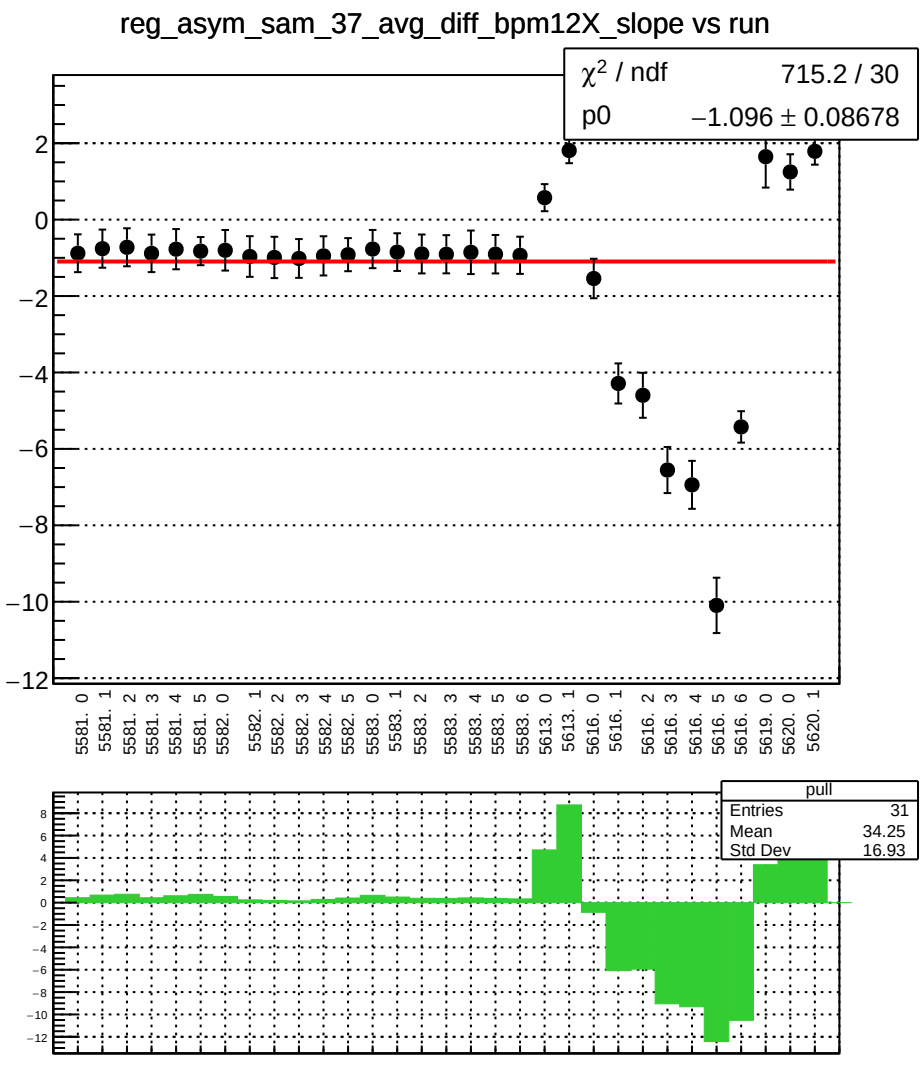

pull1D
Entries 31
Mean −0.003919
Std Dev 0.4985

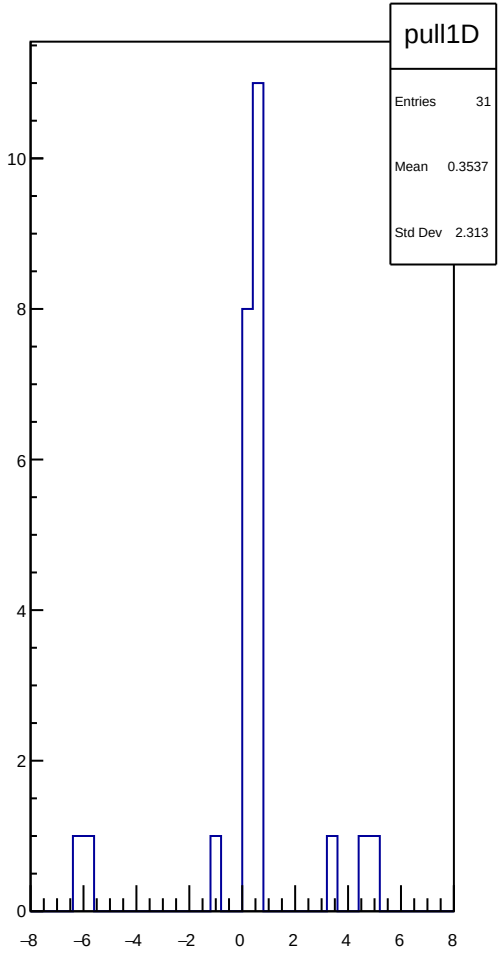

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 274.6 / 30
p0 −41.36 ± 3.273
50
0
−50
−100
−150
−200
−250
−300
−350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.25
Std Dev 17.77
4
2
0
−2
−4
−6
pull1D
Entries 31
Mean −0.5107
Std Dev 2.932
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

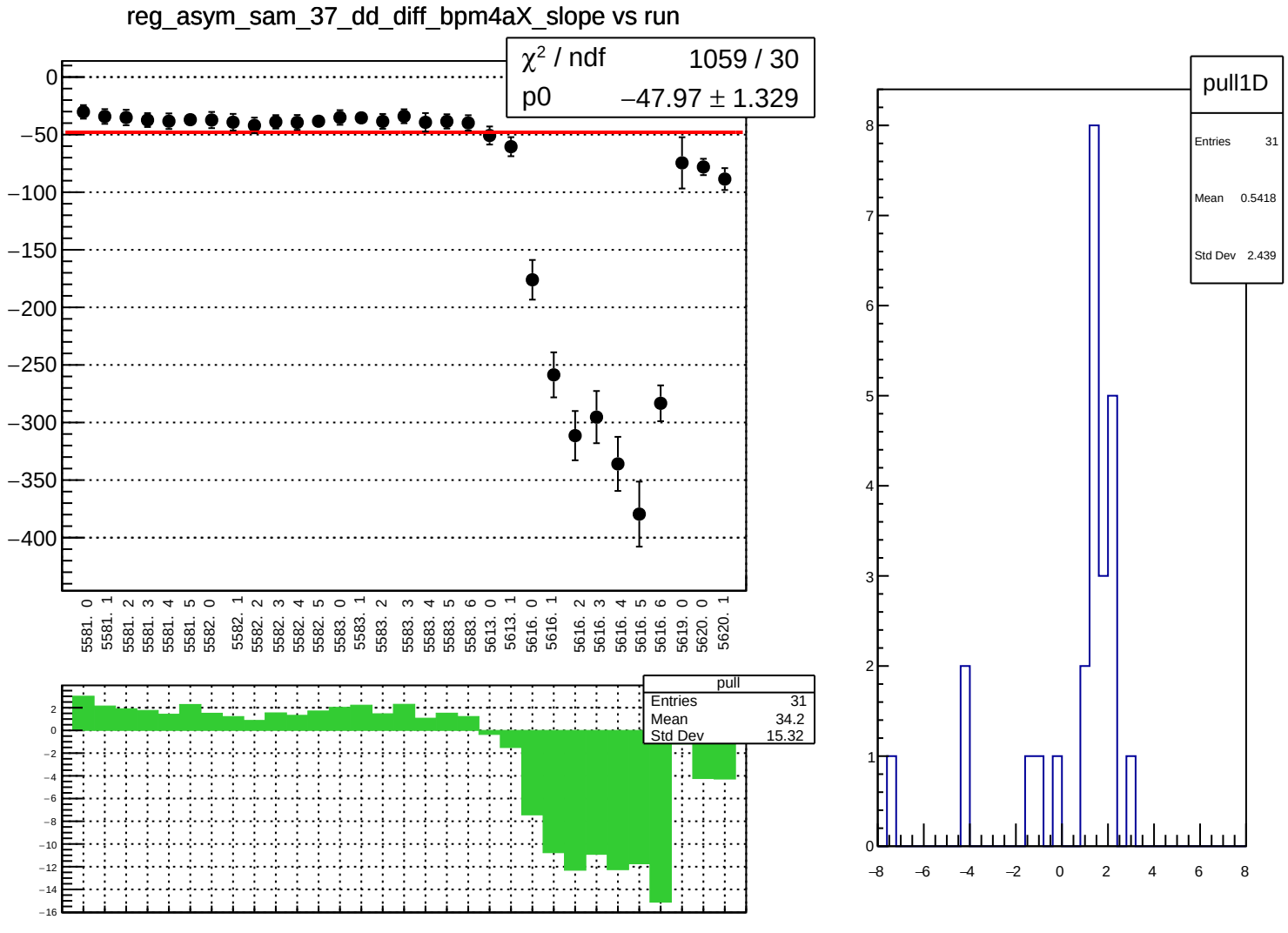

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.523 / 30
p0 3.946 ± 1.802
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.23
Std Dev 17.34
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 31
Mean 0.0612
Std Dev 0.2786
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

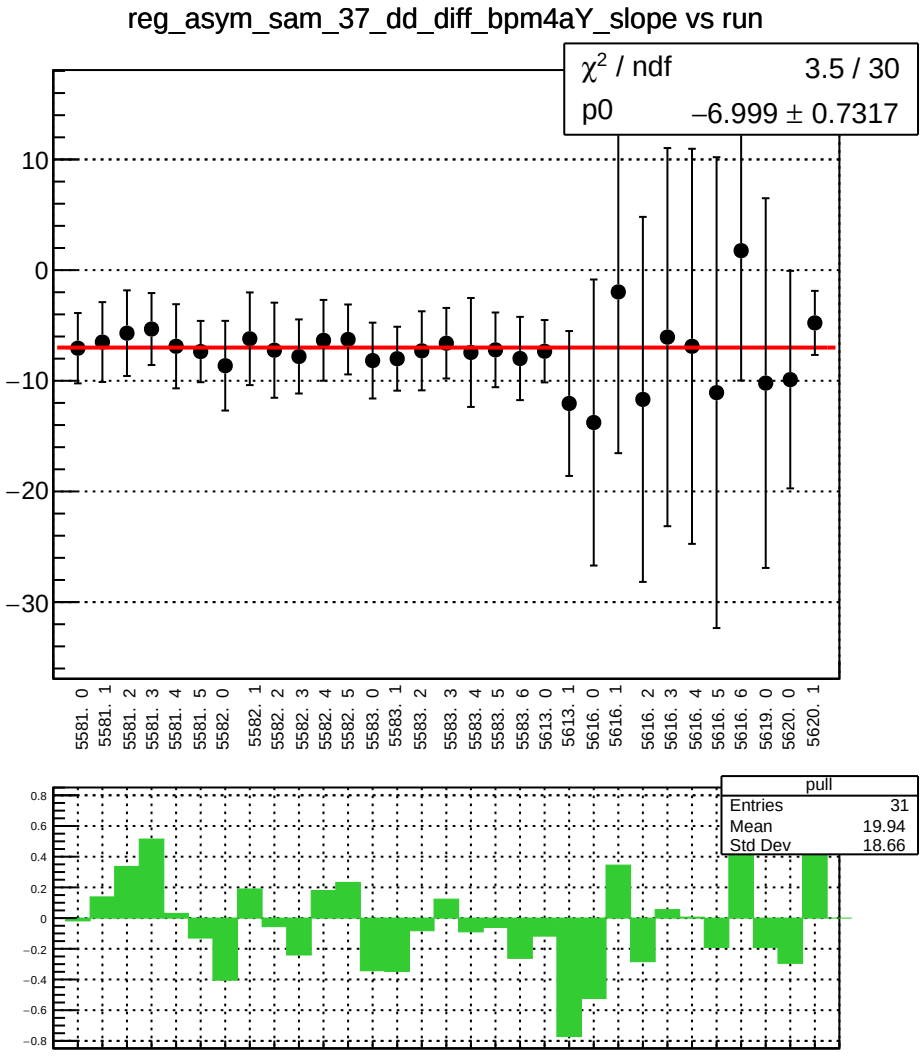

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 254 / 30
p0 −29.53 ± 3.184
250
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.85
Std Dev 18.21
6
4
2
0
−2
−4
pull1D
Entries 31
Mean 0.5345
Std Dev 2.812
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

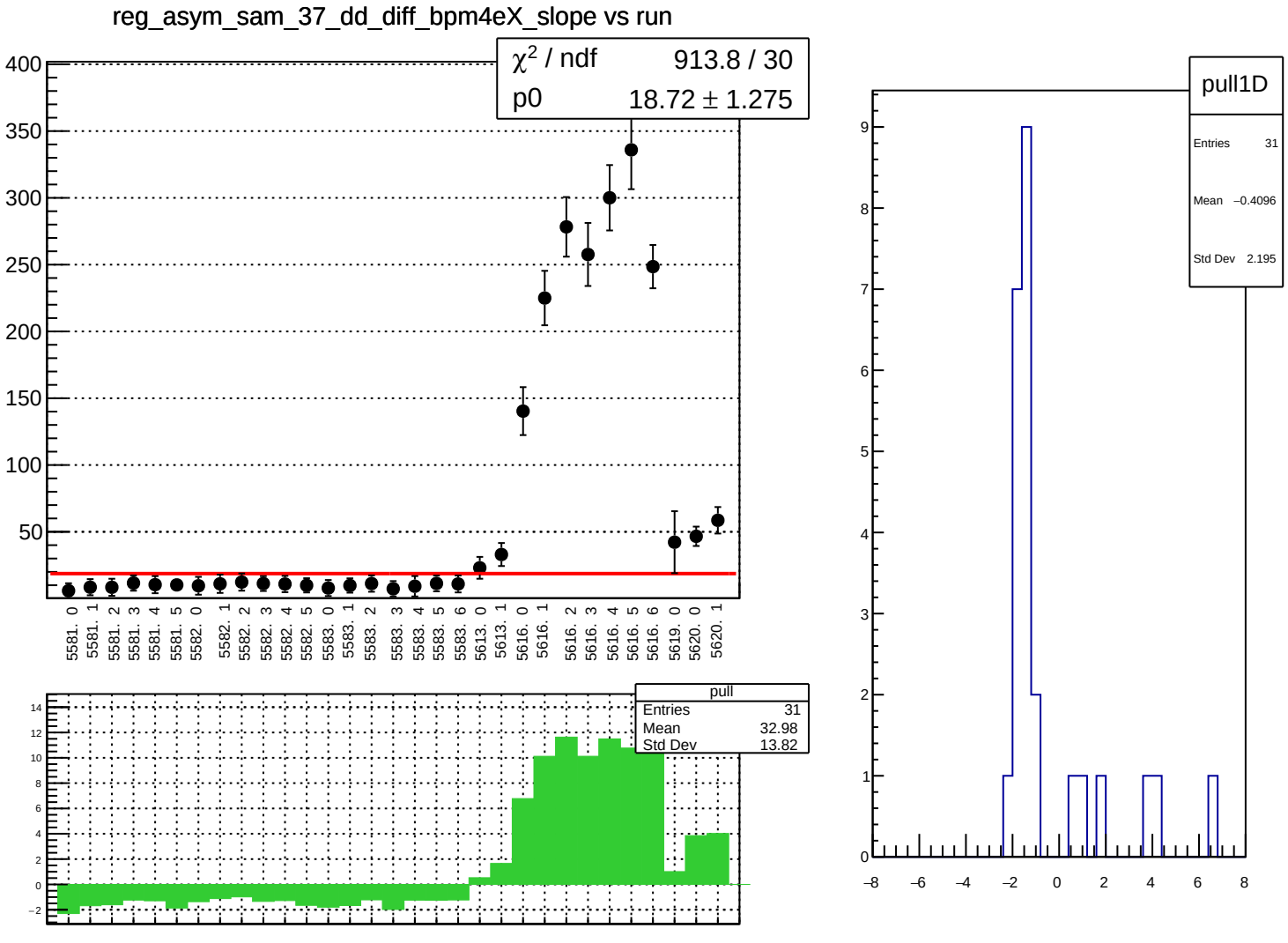

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.219 / 30
p0 −0.4405 ± 2.377
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −19.95
Std Dev 43.71
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 31
Mean −0.002437
Std Dev 0.1983
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

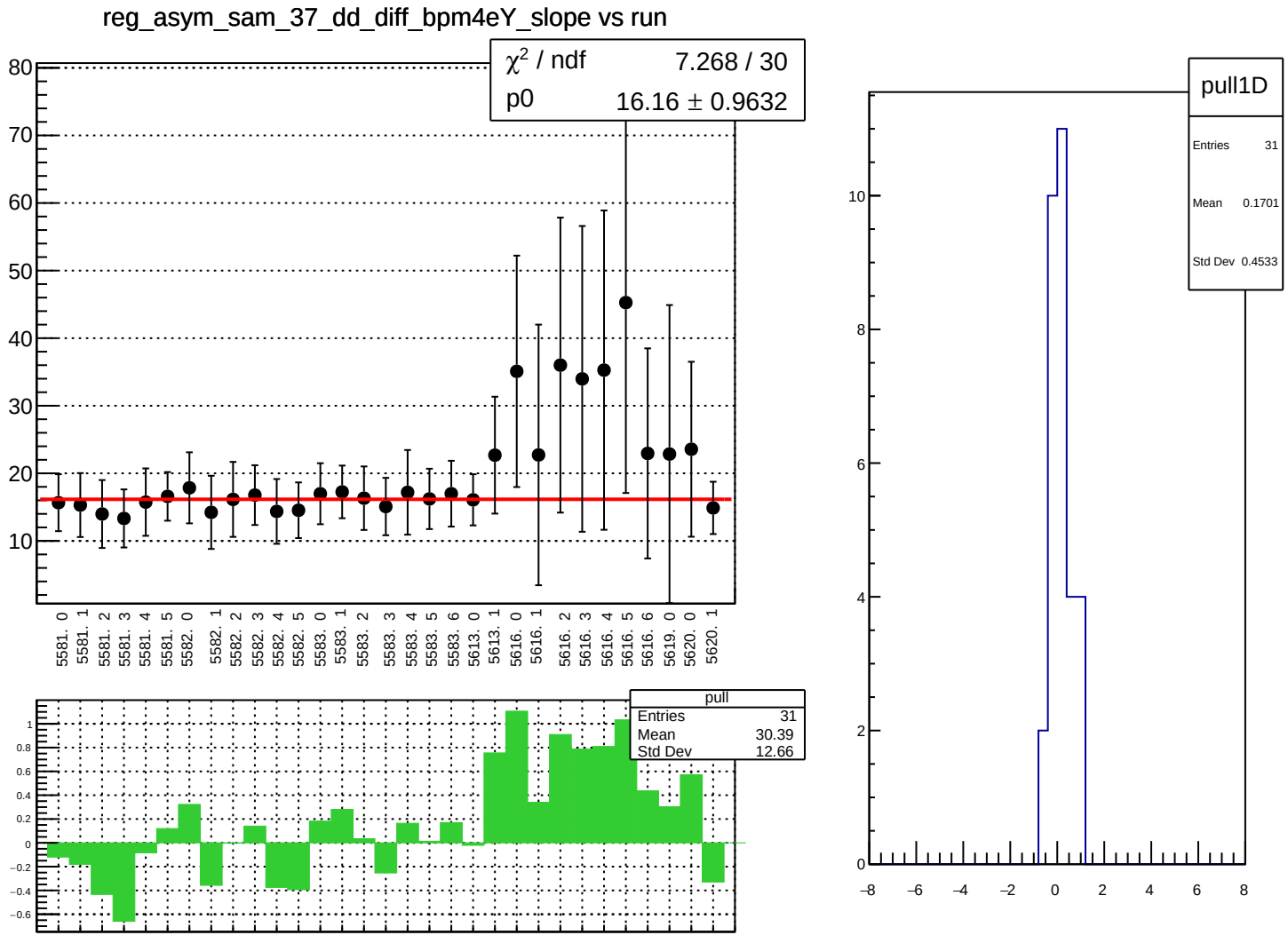

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 715.2 / 30
p0 −1.096 ± 0.08678
pull
Entries 31
Mean 34.25
Std Dev 16.93

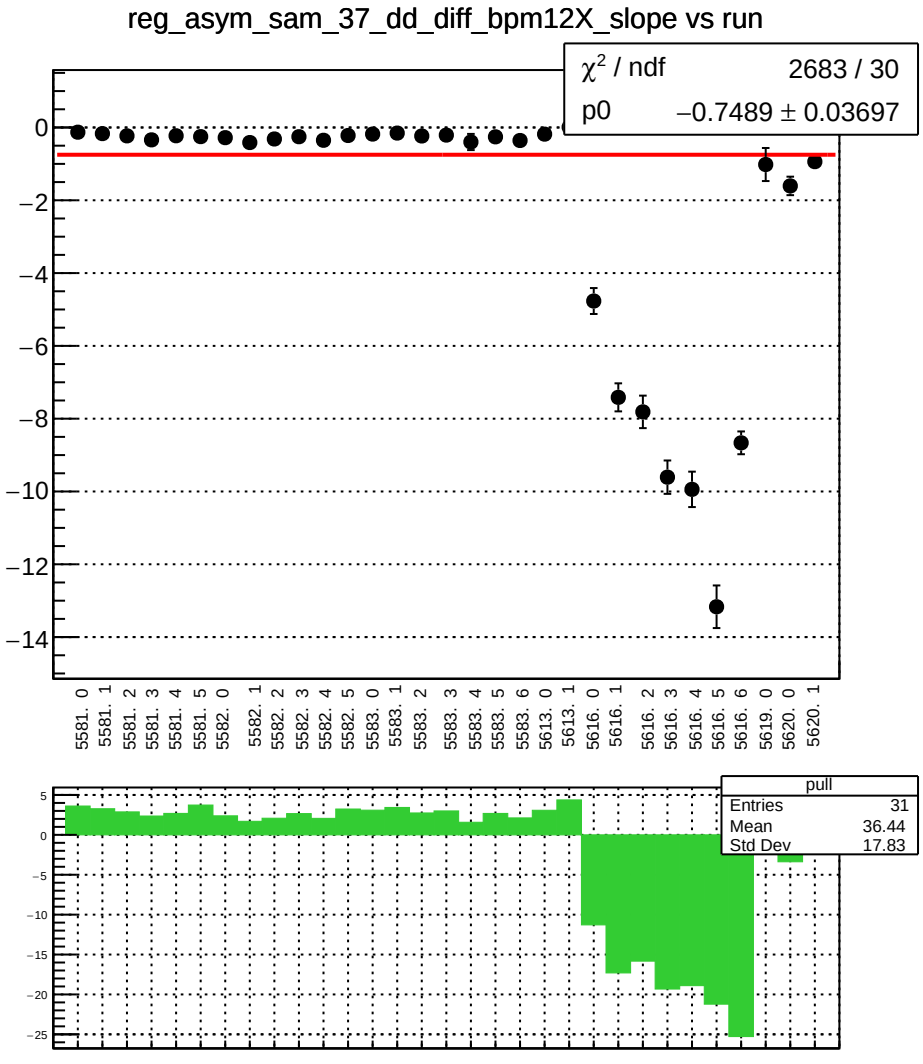

pull1D
Entries 31
Mean 0.3537
Std Dev 2.313

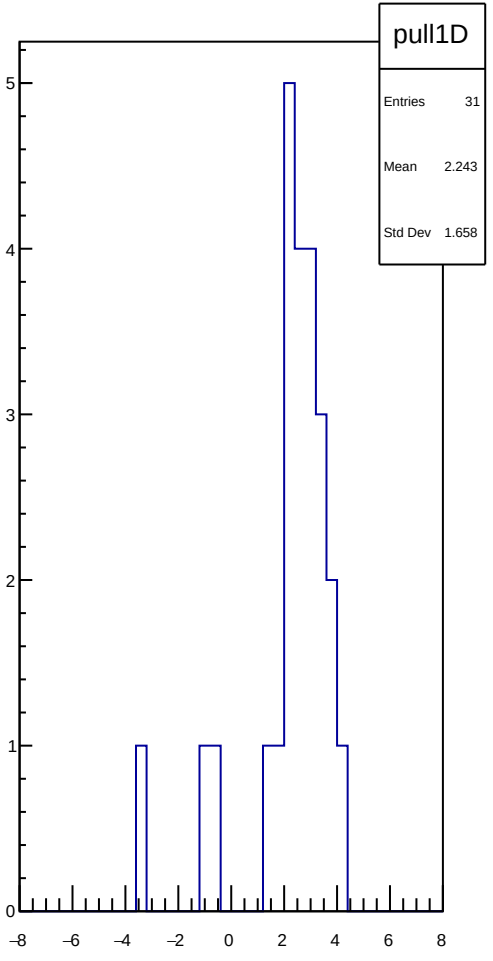

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 1059 / 30
p0 −47.97 ± 1.329
0
−50
−100
−150
−200
−250
−300
−350
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.2
Std Dev 15.32
2
0
−2
−4
−6
−8
−10
−12
−14
−16
pull1D
Entries 31
Mean 0.5418
Std Dev 2.439
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

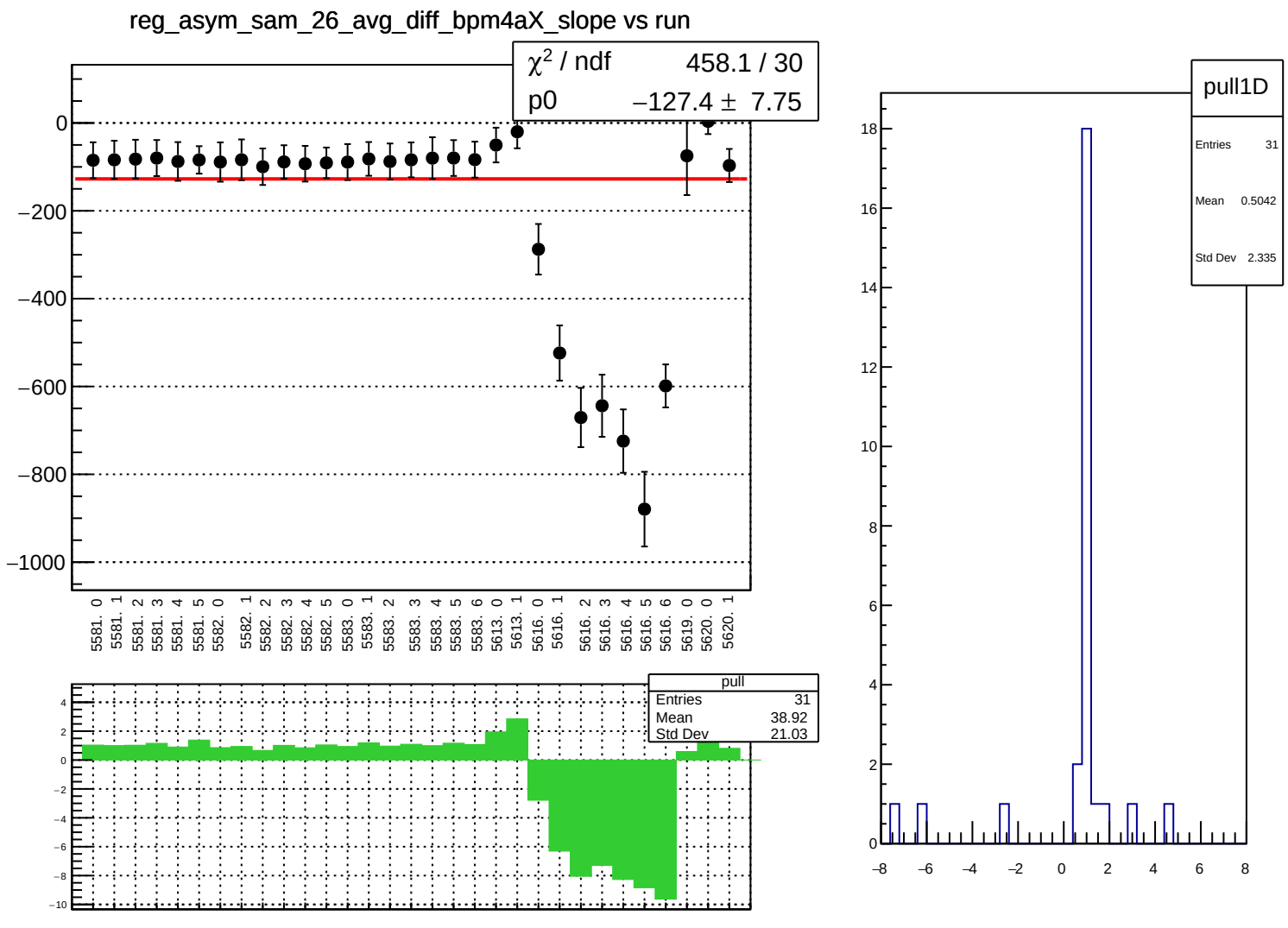

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.5 / 30
p0 −6.999 ± 0.7317
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.94
Std Dev 18.66
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 31
Mean −0.02401
Std Dev 0.3352
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

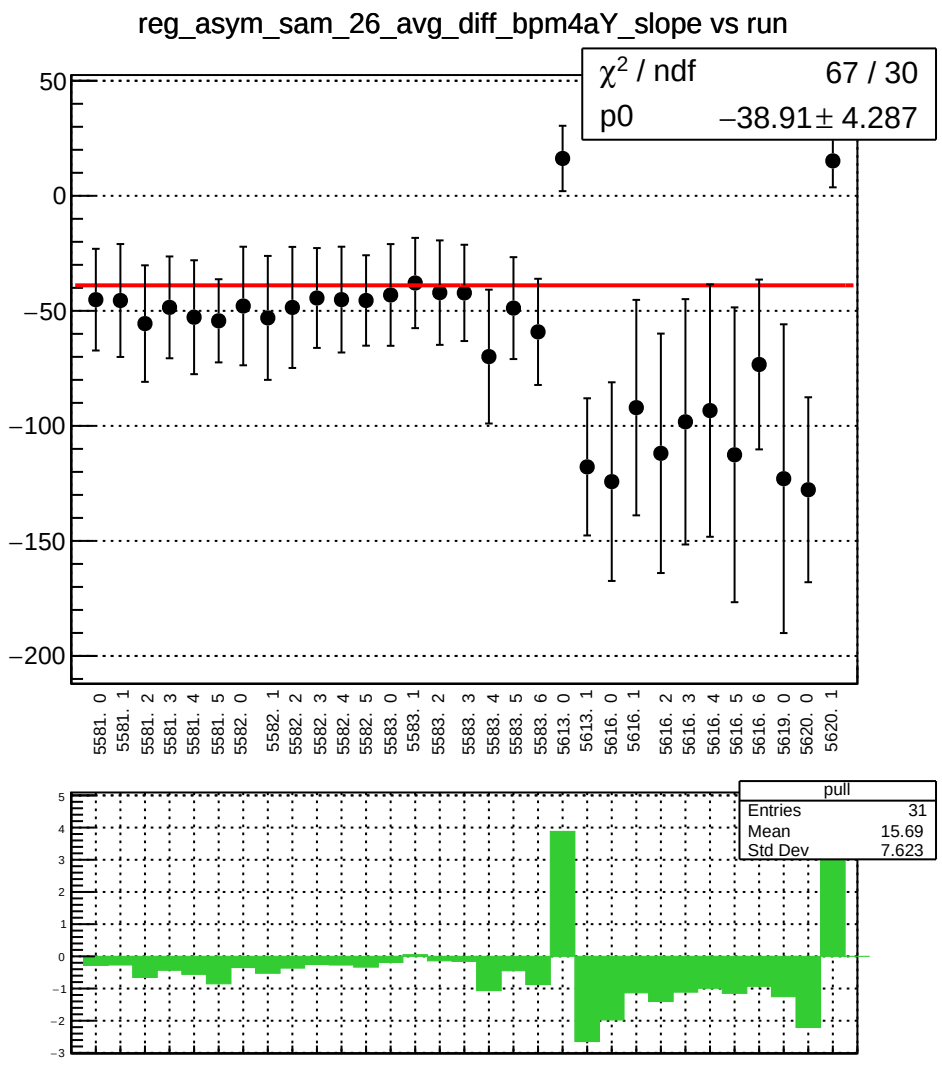

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 913.8 / 30
p0 18.72 ± 1.275
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 32.98
Std Dev 13.82
14
12
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.4096
Std Dev 2.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

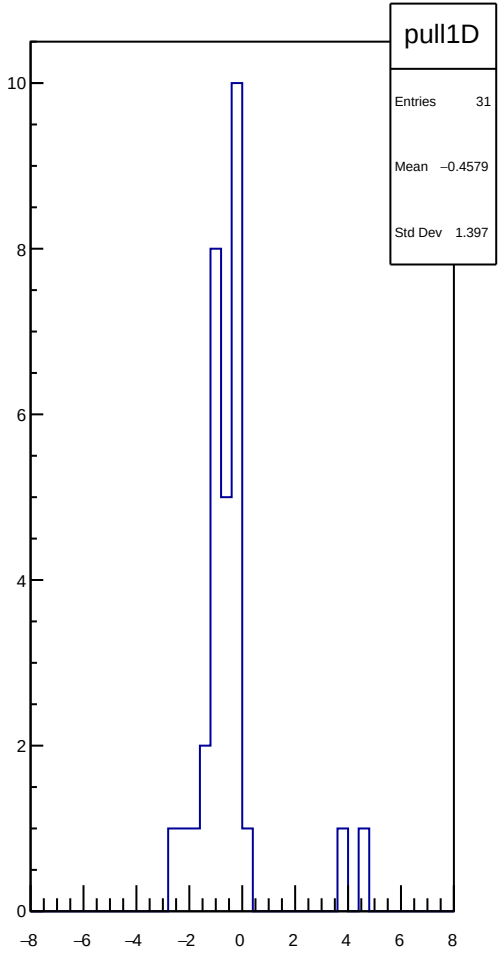

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.268 / 30
p0 16.16 ± 0.9632
80
70
60
50
40
30
20
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.39
Std Dev 12.66
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 31
Mean 0.1701
Std Dev 0.4533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

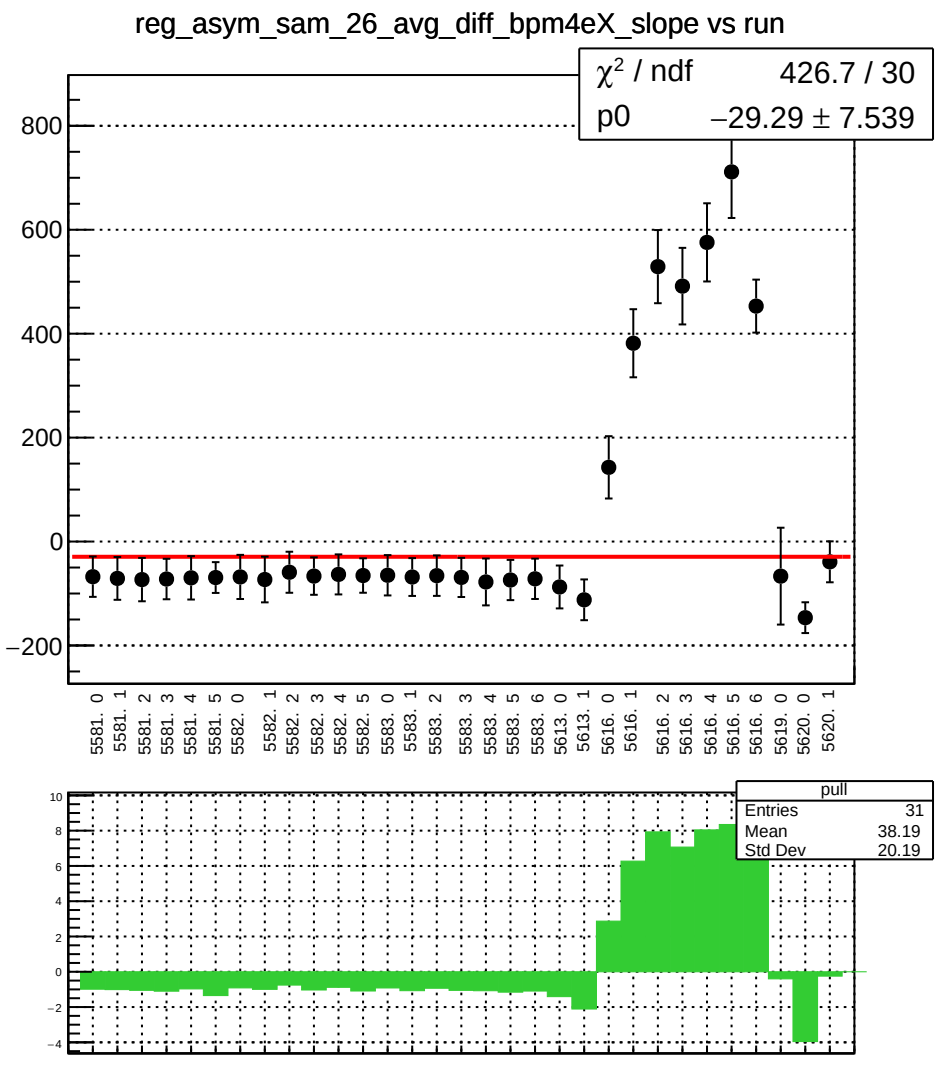

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2683 / 30
p0 −0.7489 ± 0.03697
0
−2
−4
−6
−8
−10
−12
−14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 36.44
Std Dev 17.83
5
0
−5
−10
−15
−20
−25

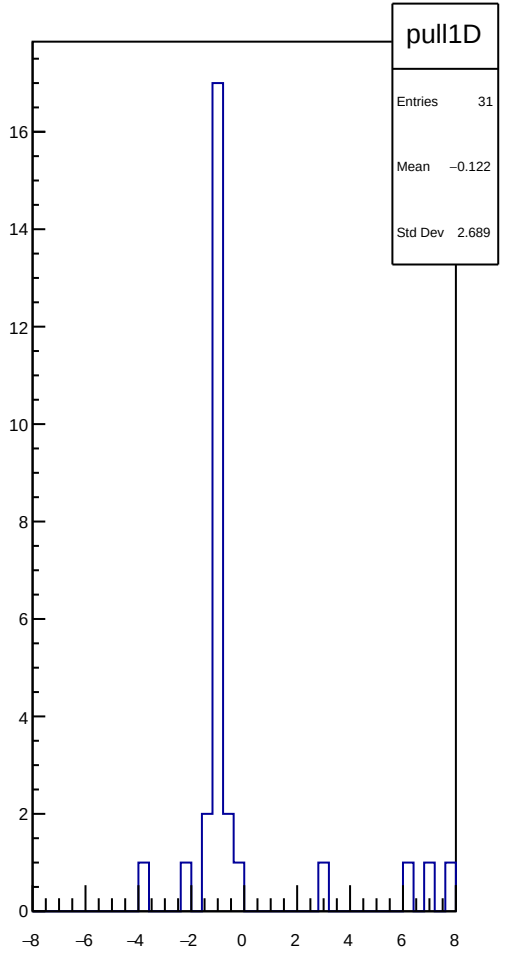

pull1D
Entries 31
Mean 2.243
Std Dev 1.658
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

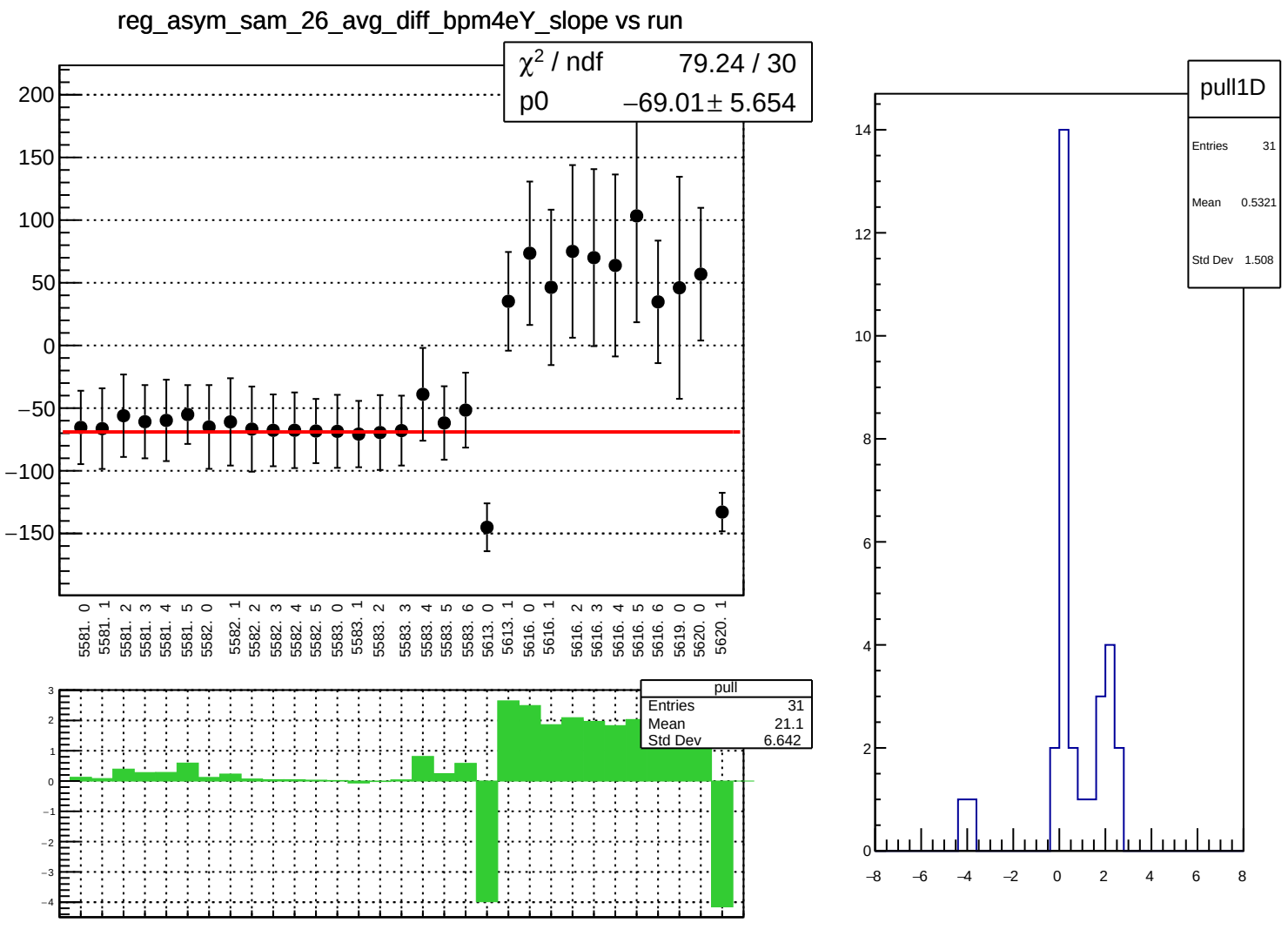

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 458.1 / 30
p0 −127.4 ± 7.75
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.92
Std Dev 21.03
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean 0.5042
Std Dev 2.335
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

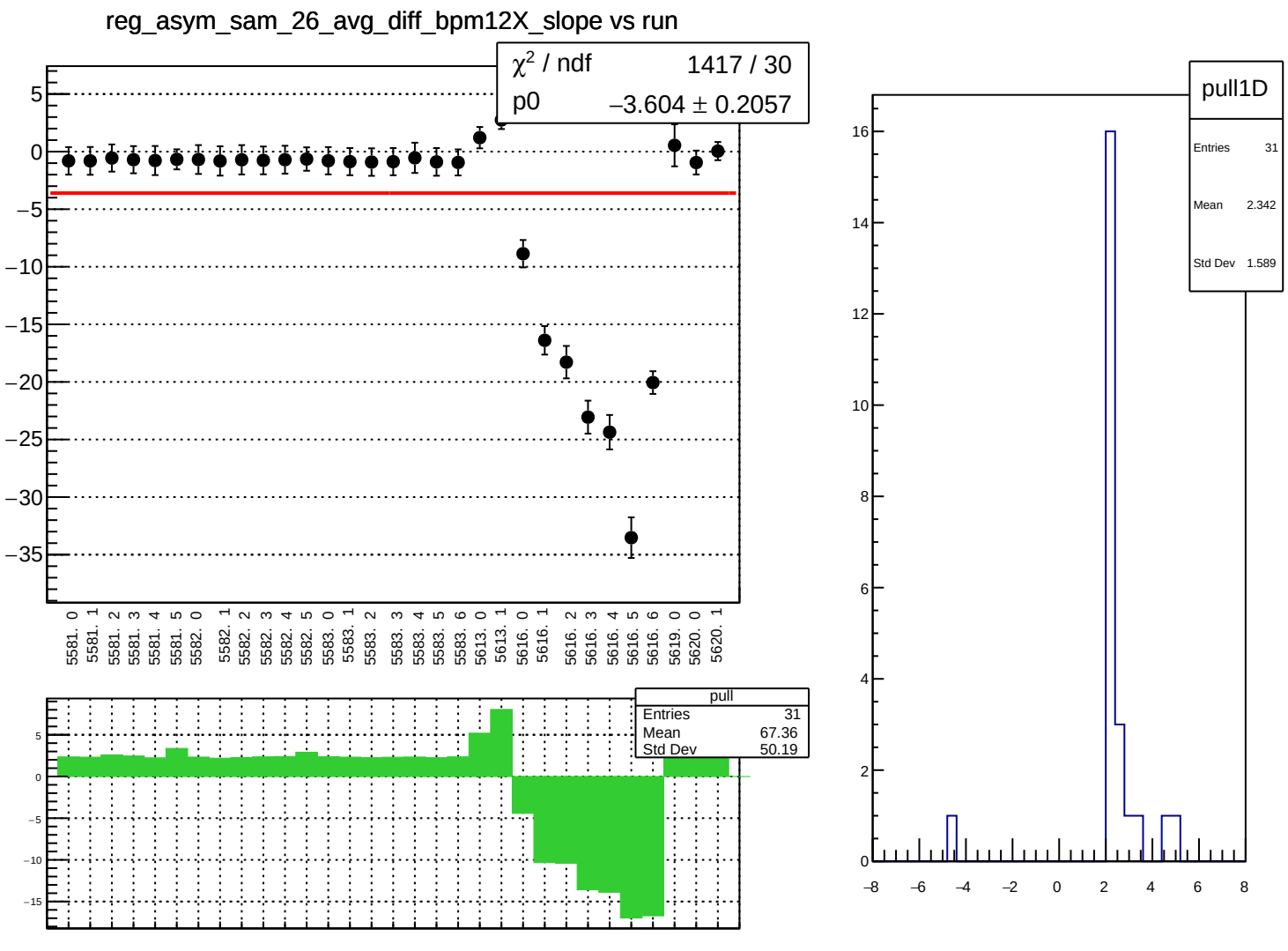

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 67 / 30
p0 −38.91 ± 4.287
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.69
Std Dev 7.623
5
4
3
2
1
0
−1
−2
−3

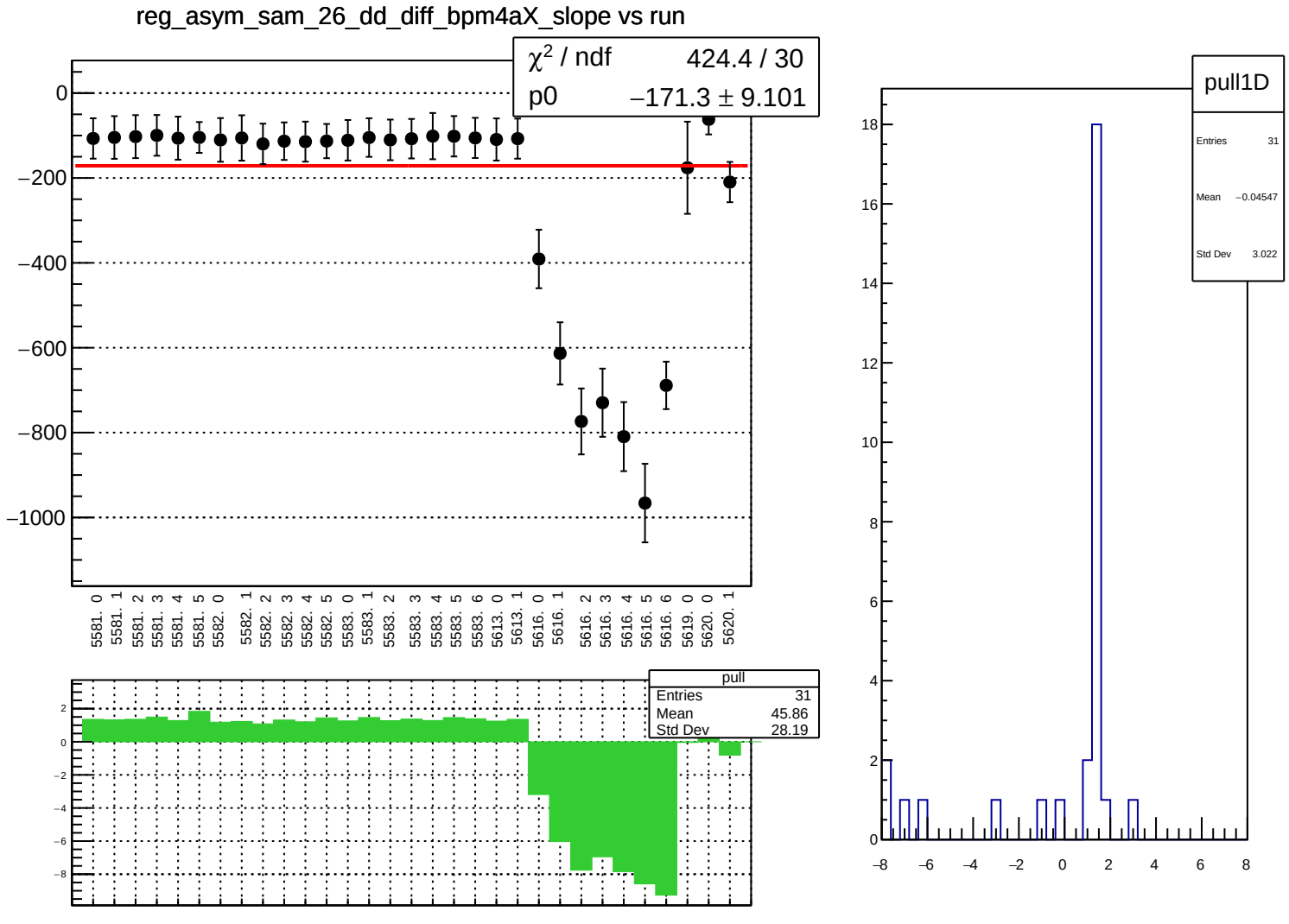

pull1D
Entries 31
Mean −0.4579
Std Dev 1.397
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

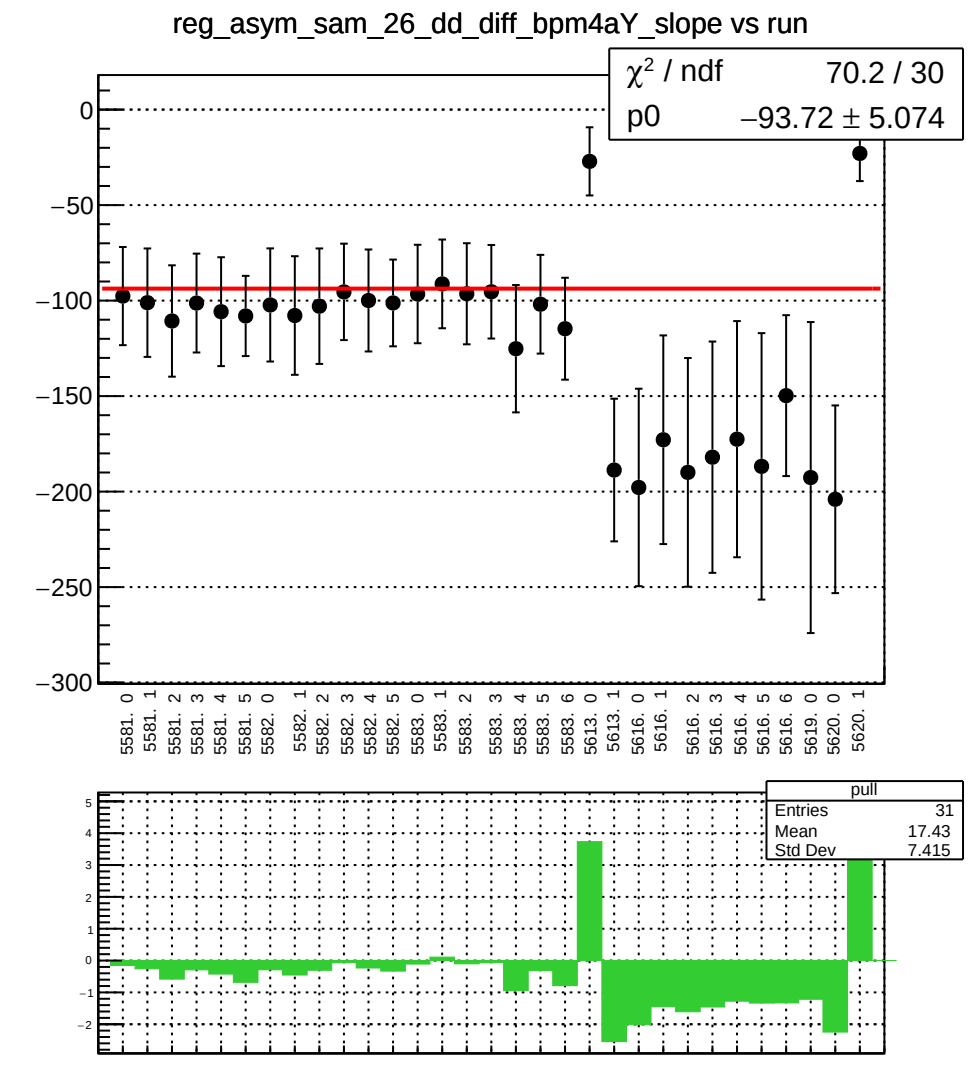

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 426.7 / 30
p0 −29.29 ± 7.539
800
600
400
200
0
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.19
Std Dev 20.19
10
8
6
4
2
0
−2
−4

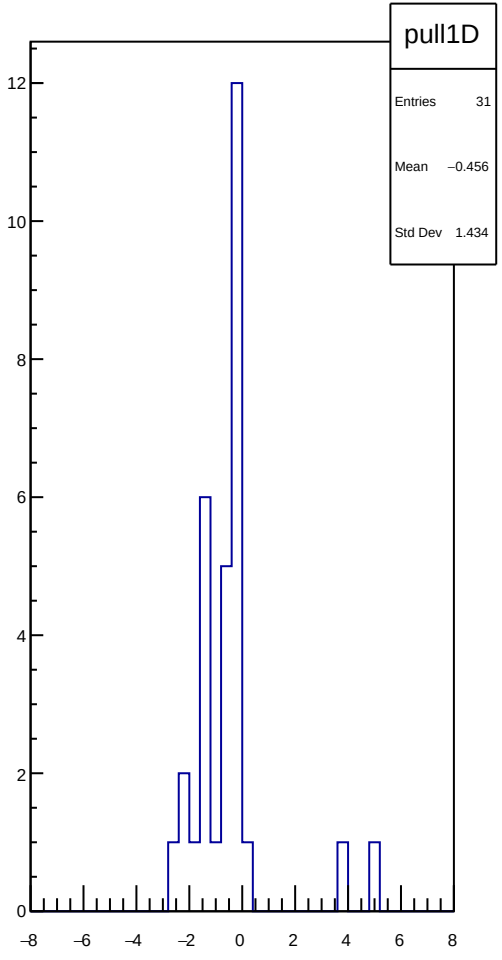

pull1D
Entries 31
Mean −0.122
Std Dev 2.689
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

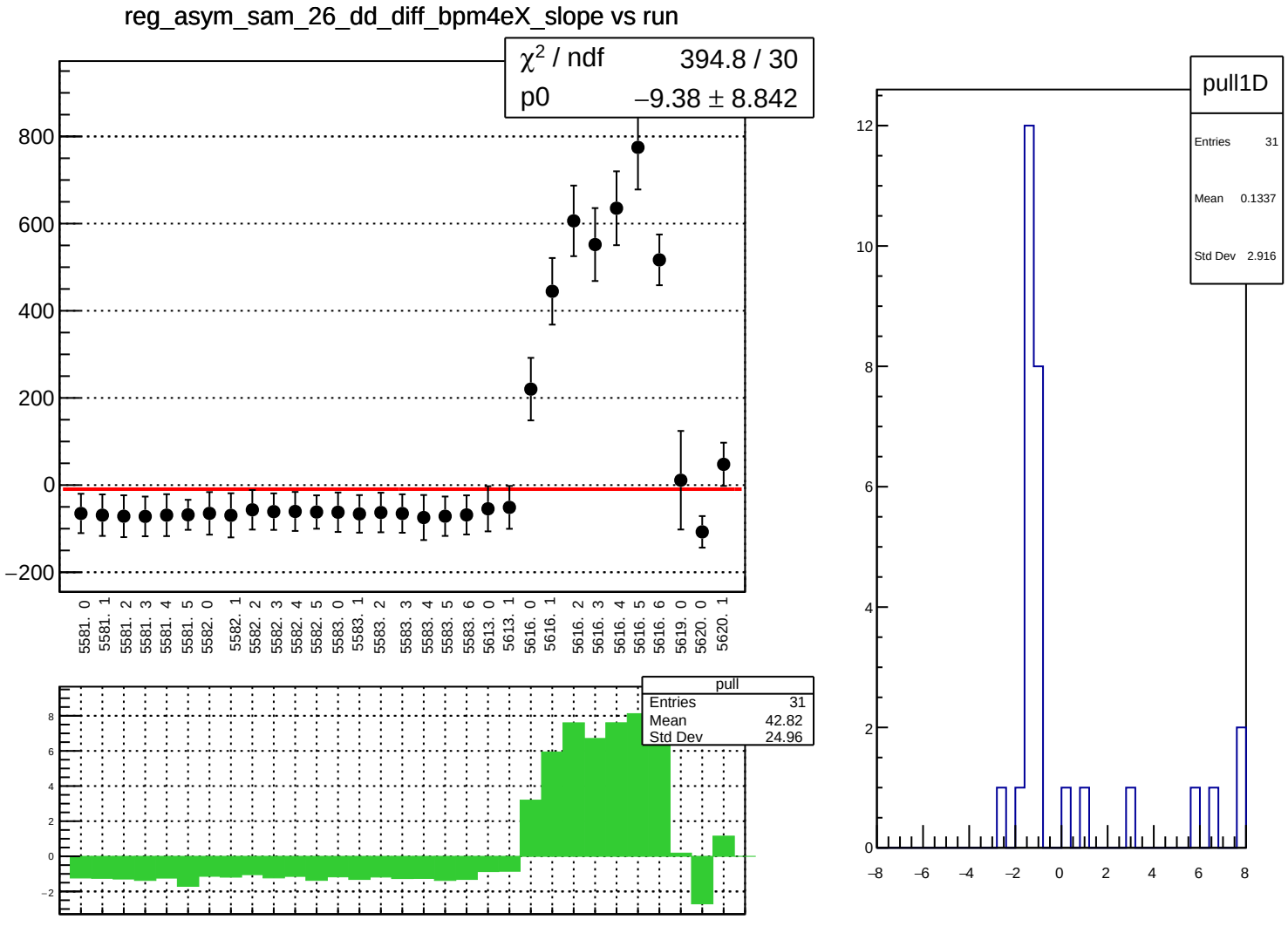

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.24 / 30
p0 −69.01 ± 5.654
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 21.1
Std Dev 6.642
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.5321
Std Dev 1.508
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

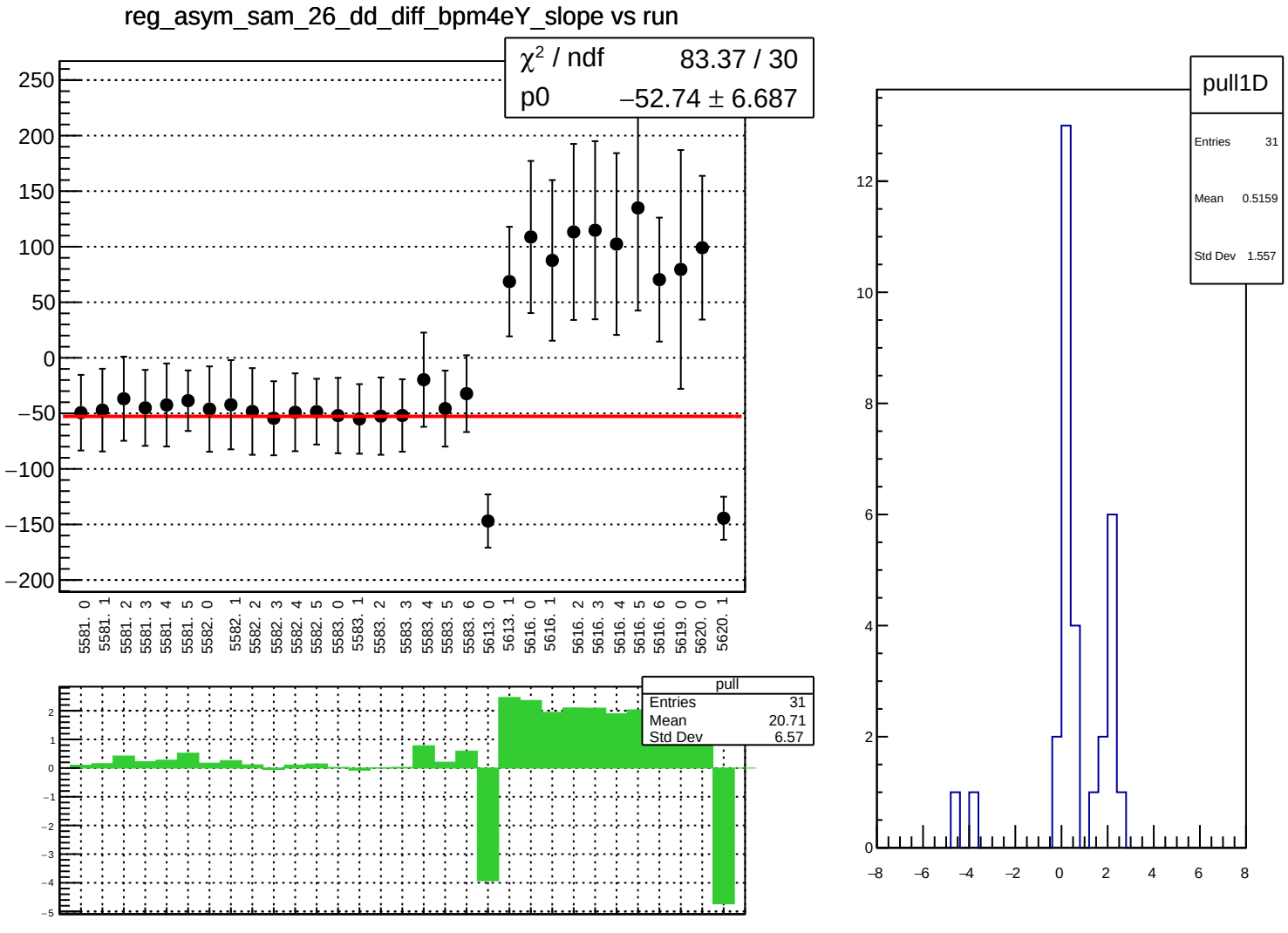

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 1417 / 30
p0 −3.604 ± 0.2057
5
0
−5
−10
−15
−20
−25
−30
−35
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 67.36
Std Dev 50.19
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.342
Std Dev 1.589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

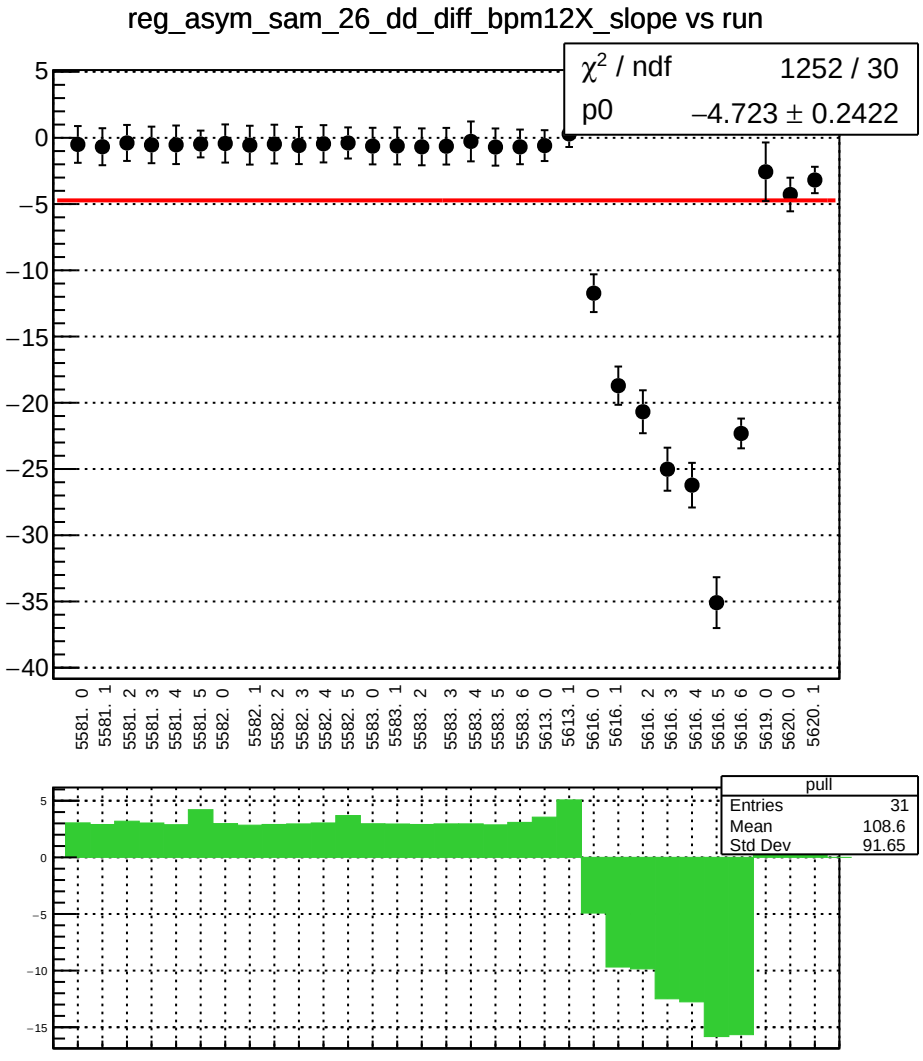

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 424.4 / 30
p0 −171.3 ± 9.101
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 45.86
Std Dev 28.19
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean −0.04547
Std Dev 3.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

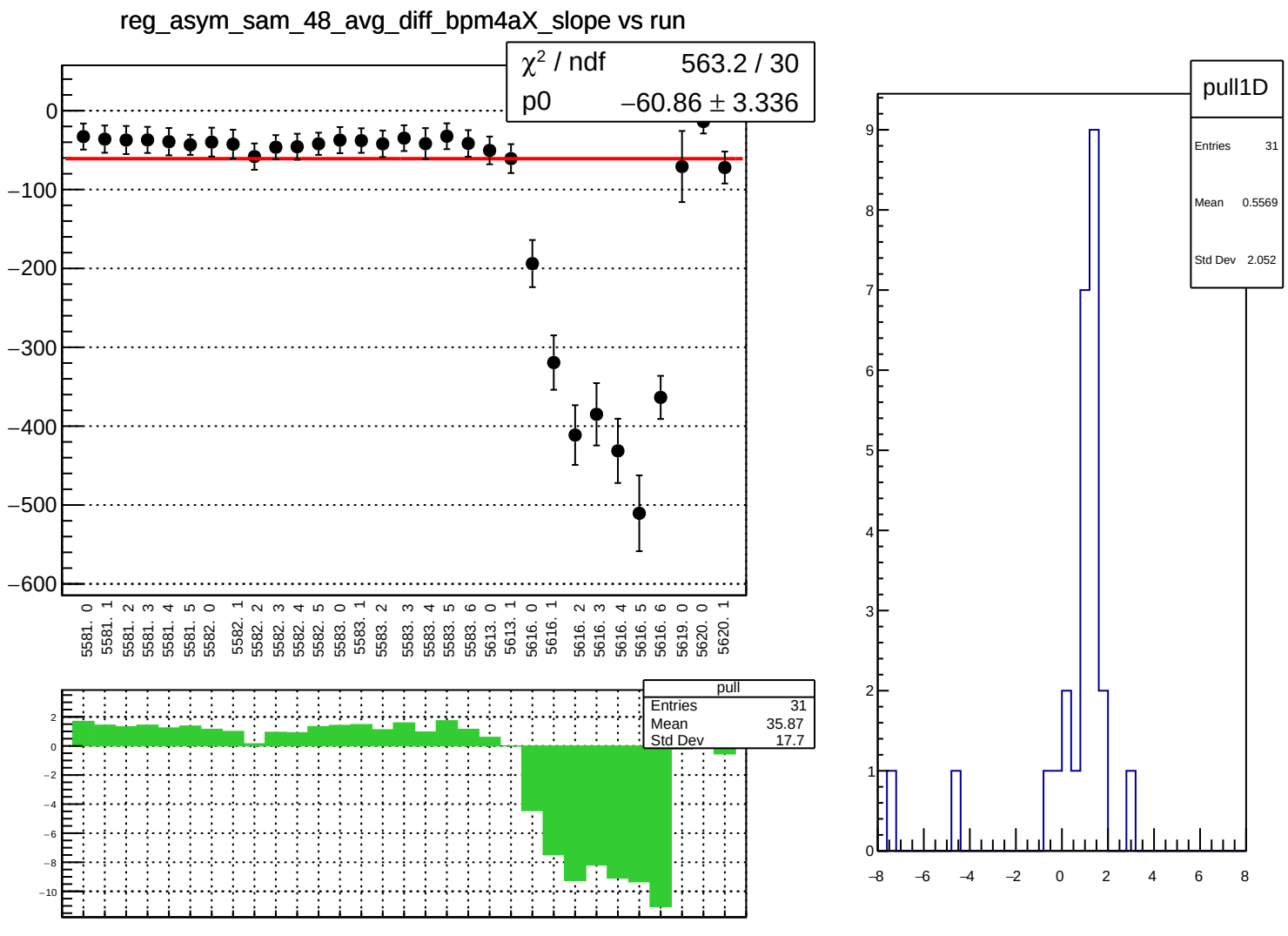

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.2 / 30
p0 −93.72 ± 5.074
0
−50
−100
−150
−200
−250
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 17.43
Std Dev 7.415
5
4
3
2
1
0
−1
−2

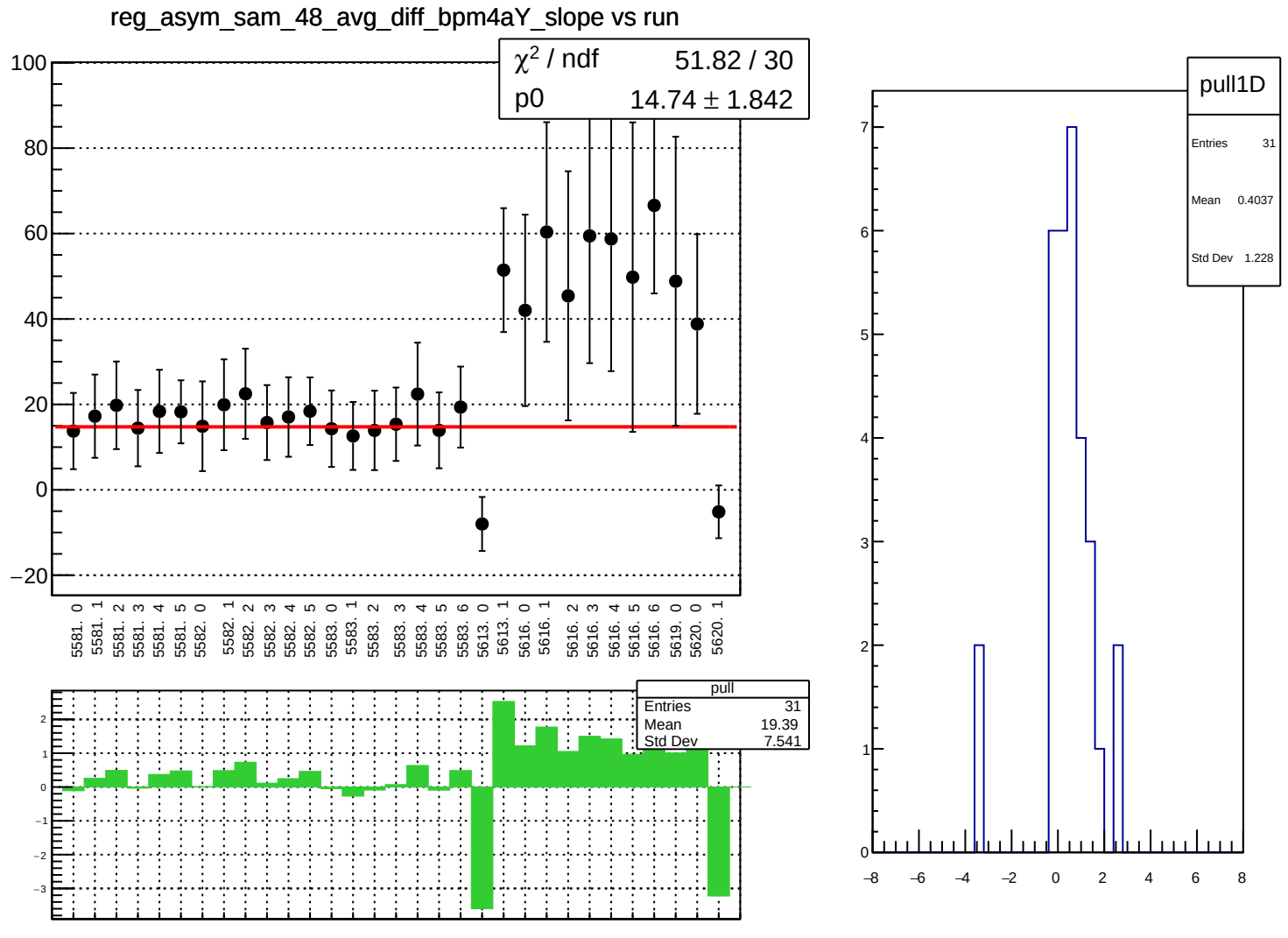

pull1D
Entries 31
Mean −0.456
Std Dev 1.434
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

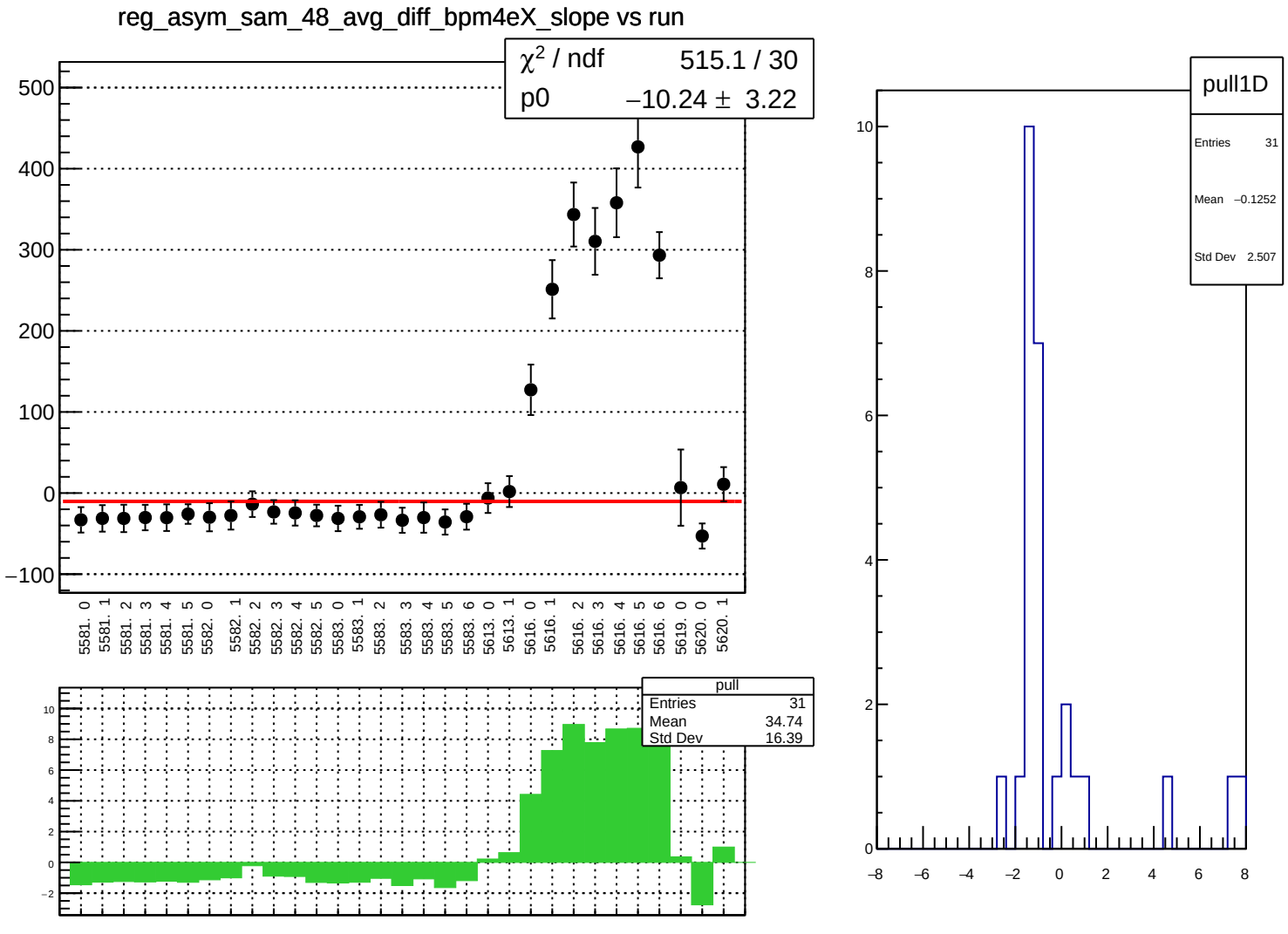

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 394.8 / 30
p0 −9.38 ± 8.842
800
600
400
200
0
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.82
Std Dev 24.96
8
6
4
2
0
−2
pull1D
Entries 31
Mean 0.1337
Std Dev 2.916
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

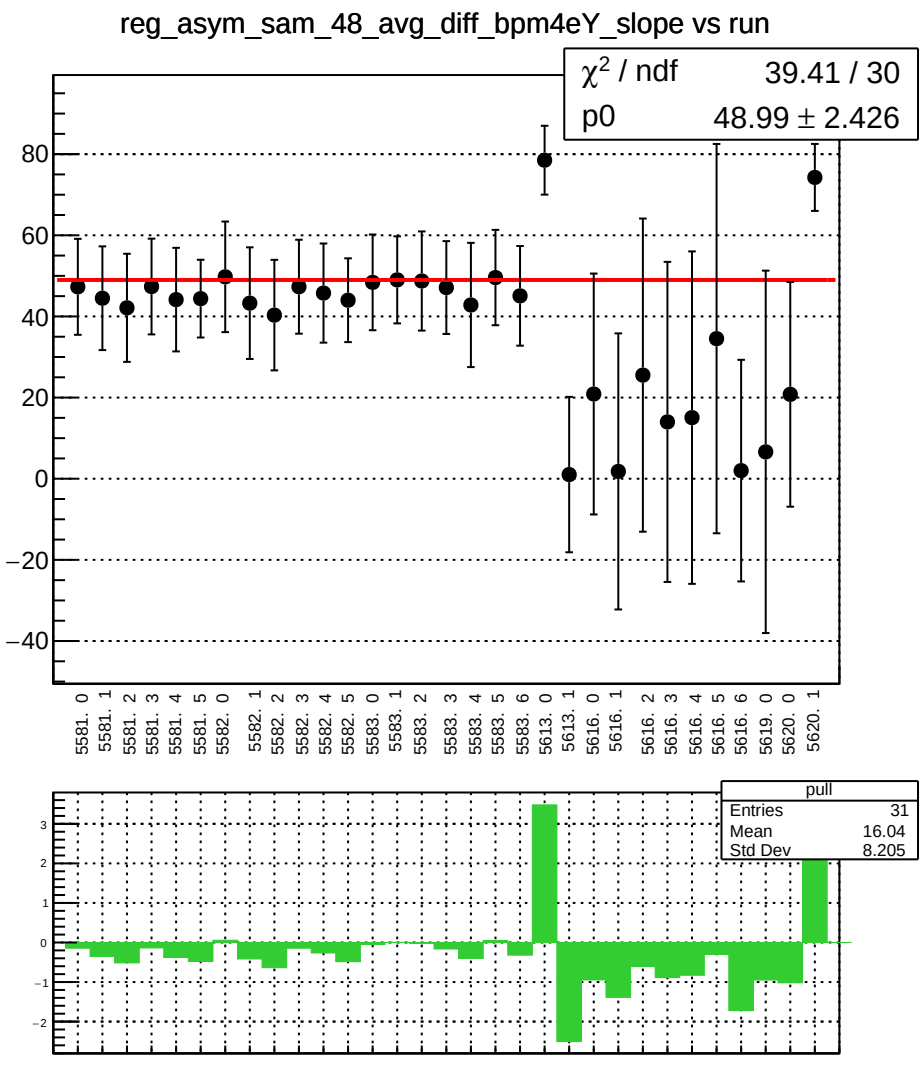

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.37 / 30
p0 −52.74 ± 6.687
250
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.71
Std Dev 6.57
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean 0.5159
Std Dev 1.557
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

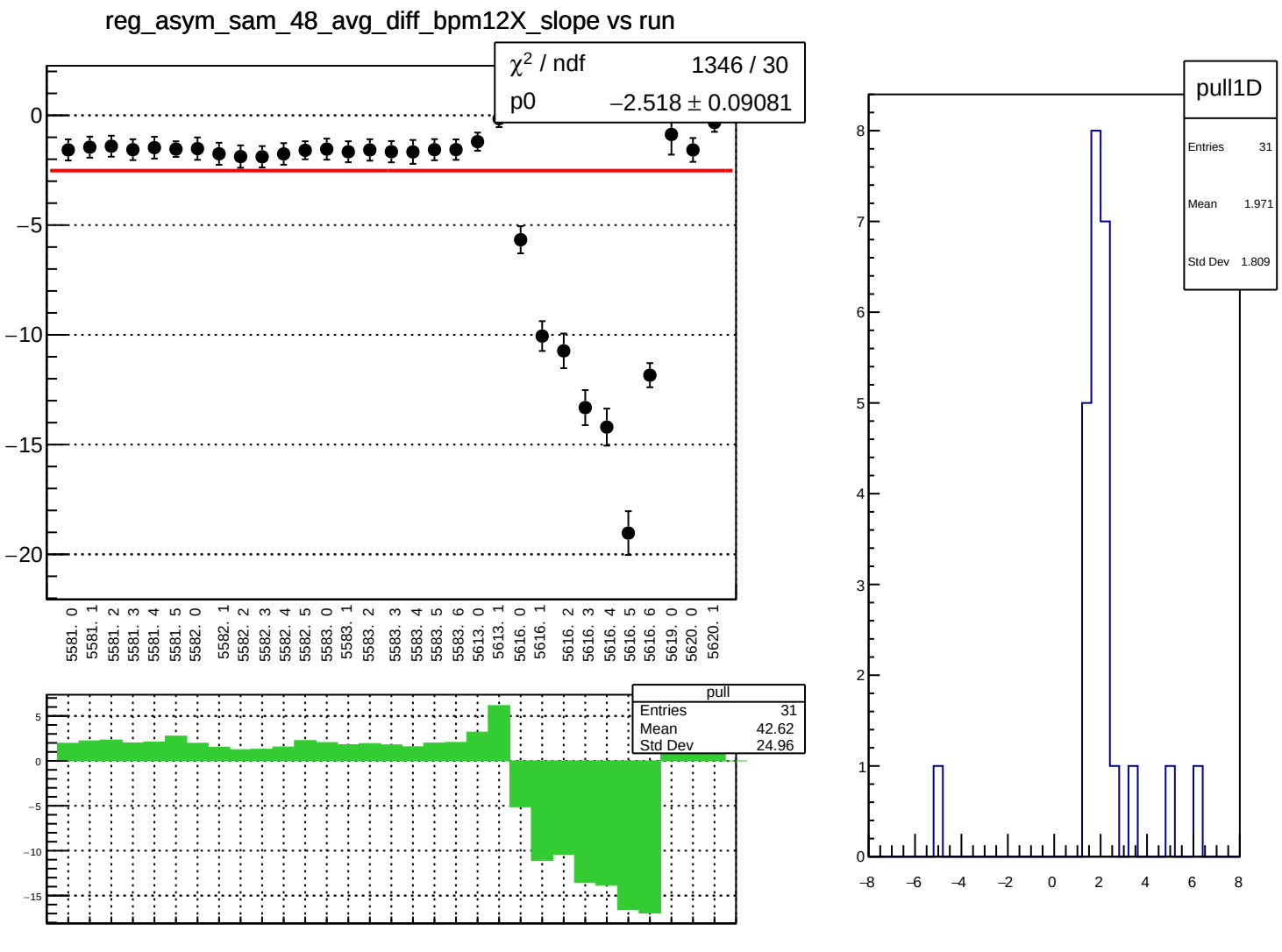

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1252 / 30
p0 −4.723 ± 0.2422
5
0
−5
−10
−15
−20
−25
−30
−35
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 108.6
Std Dev 91.65
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.598
Std Dev 1.773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

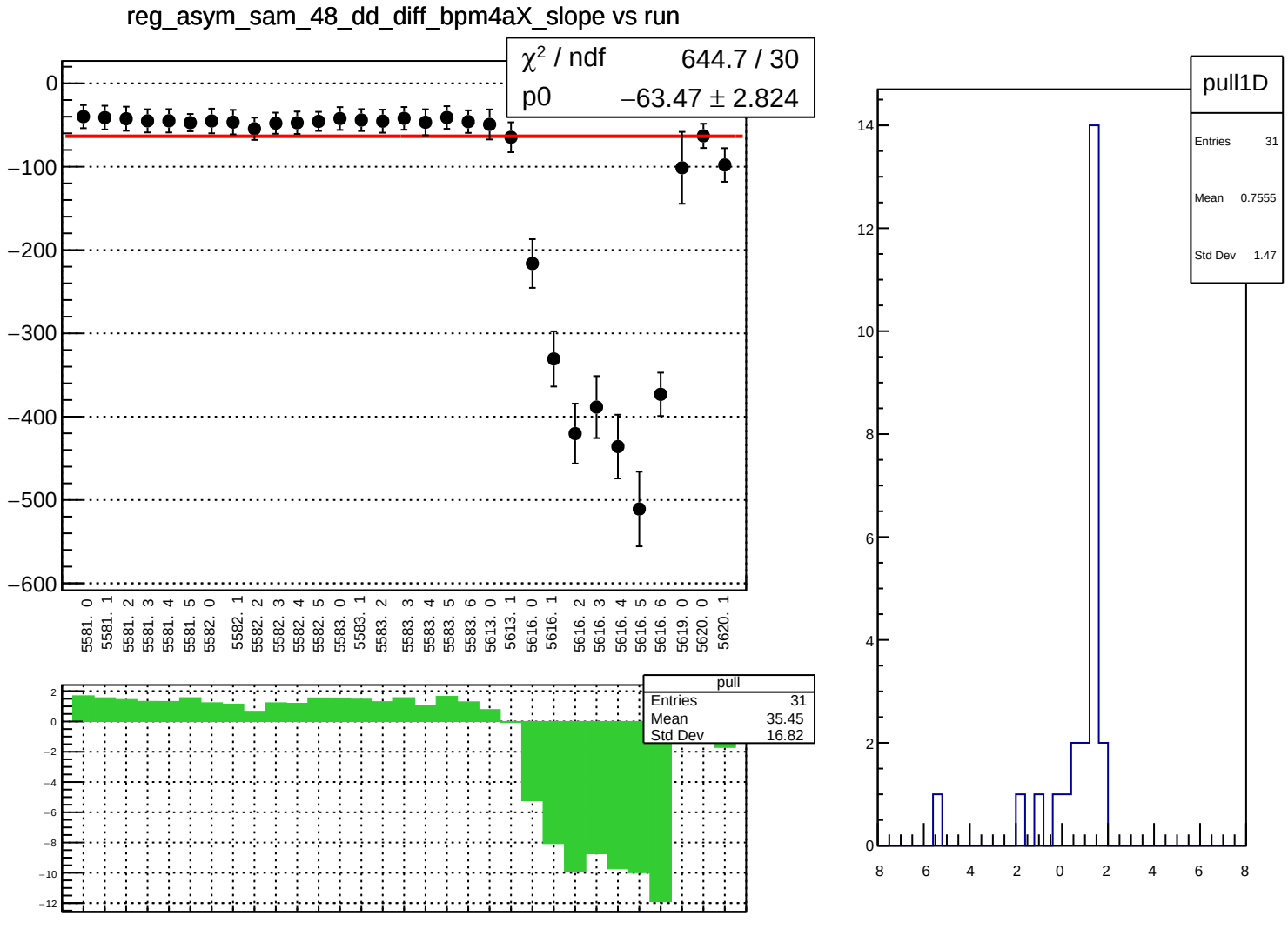

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 563.2 / 30
p0 −60.86 ± 3.336
0
−100
−200
−300
−400
−500
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.87
Std Dev 17.7
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean 0.5569
Std Dev 2.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

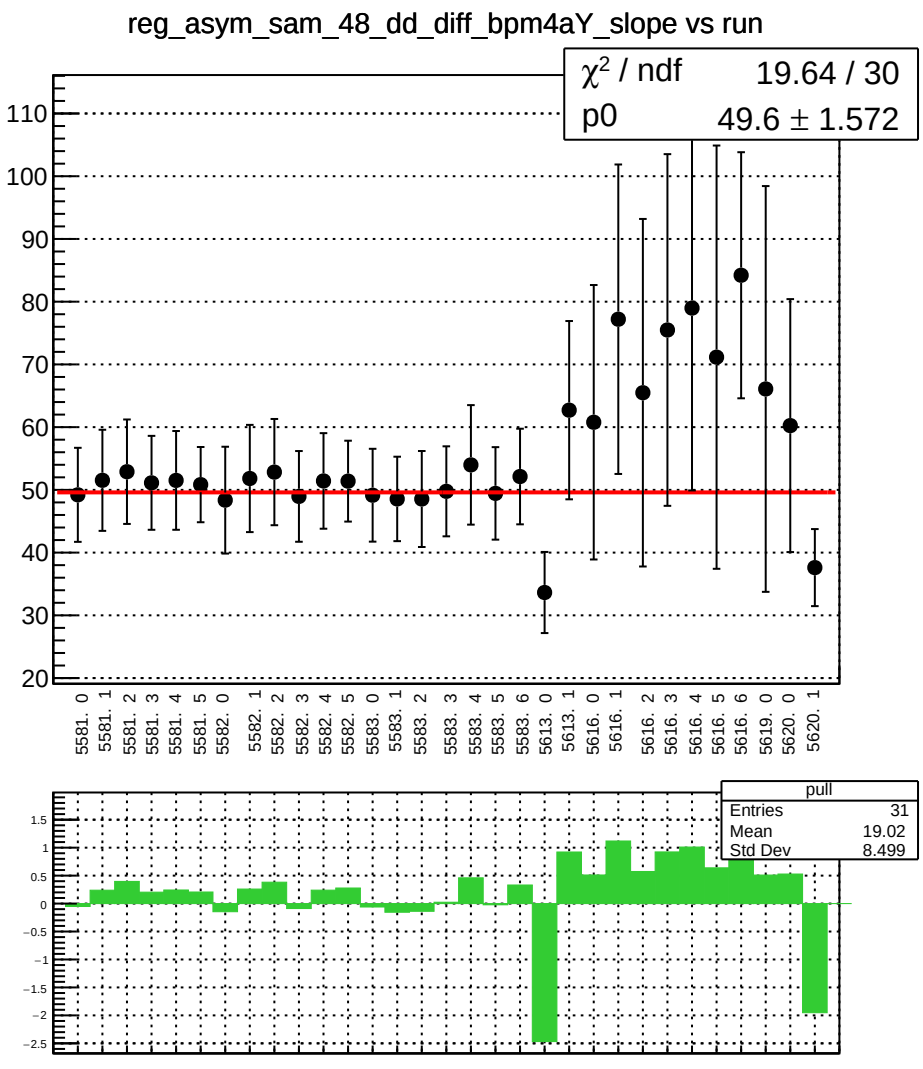

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.82 / 30
p0 14.74 ± 1.842
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.39
Std Dev 7.541
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.4037
Std Dev 1.228
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

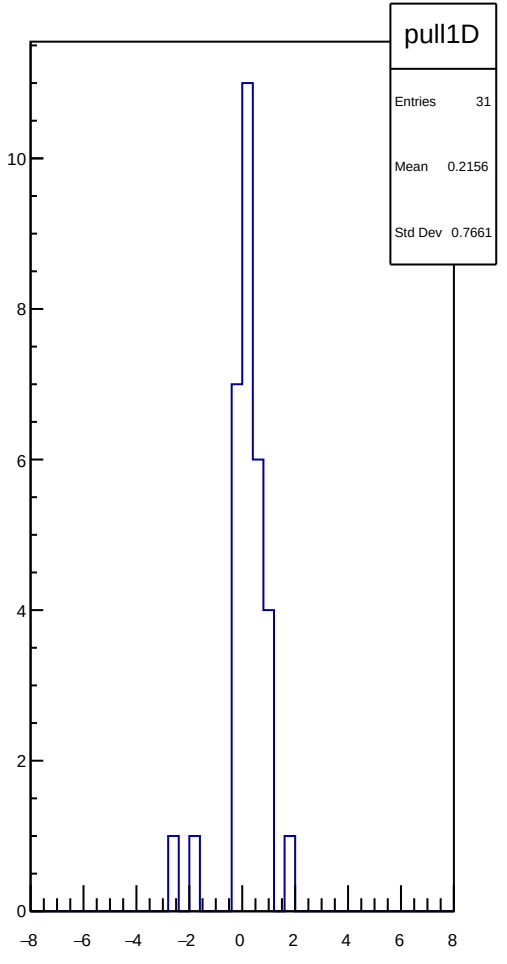

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 515.1 / 30
p0 −10.24 ± 3.22
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.74
Std Dev 16.39
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.1252
Std Dev 2.507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

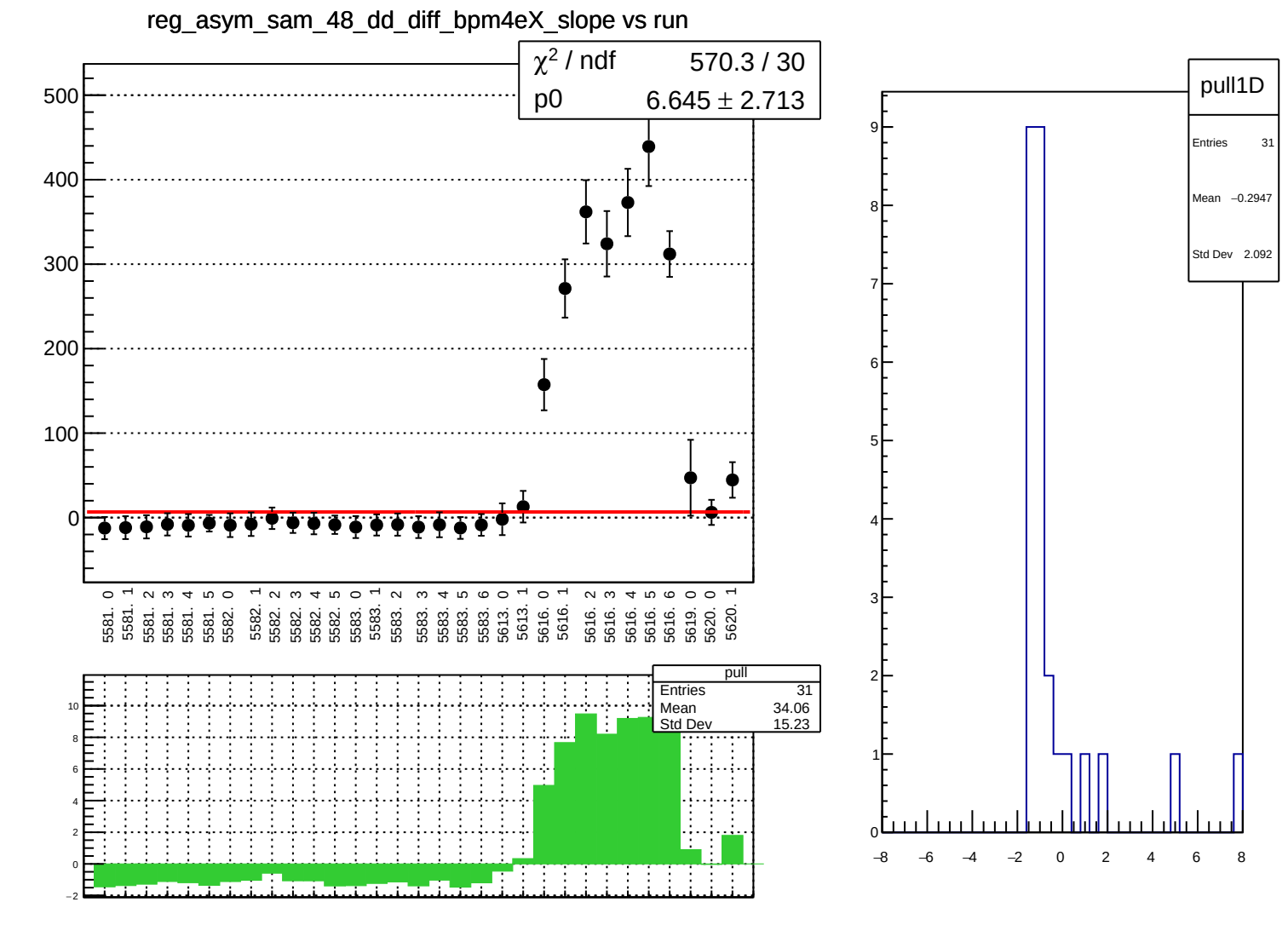

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.41 / 30
p0 48.99 ± 2.426
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.04
Std Dev 8.205
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.3036
Std Dev 1.086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

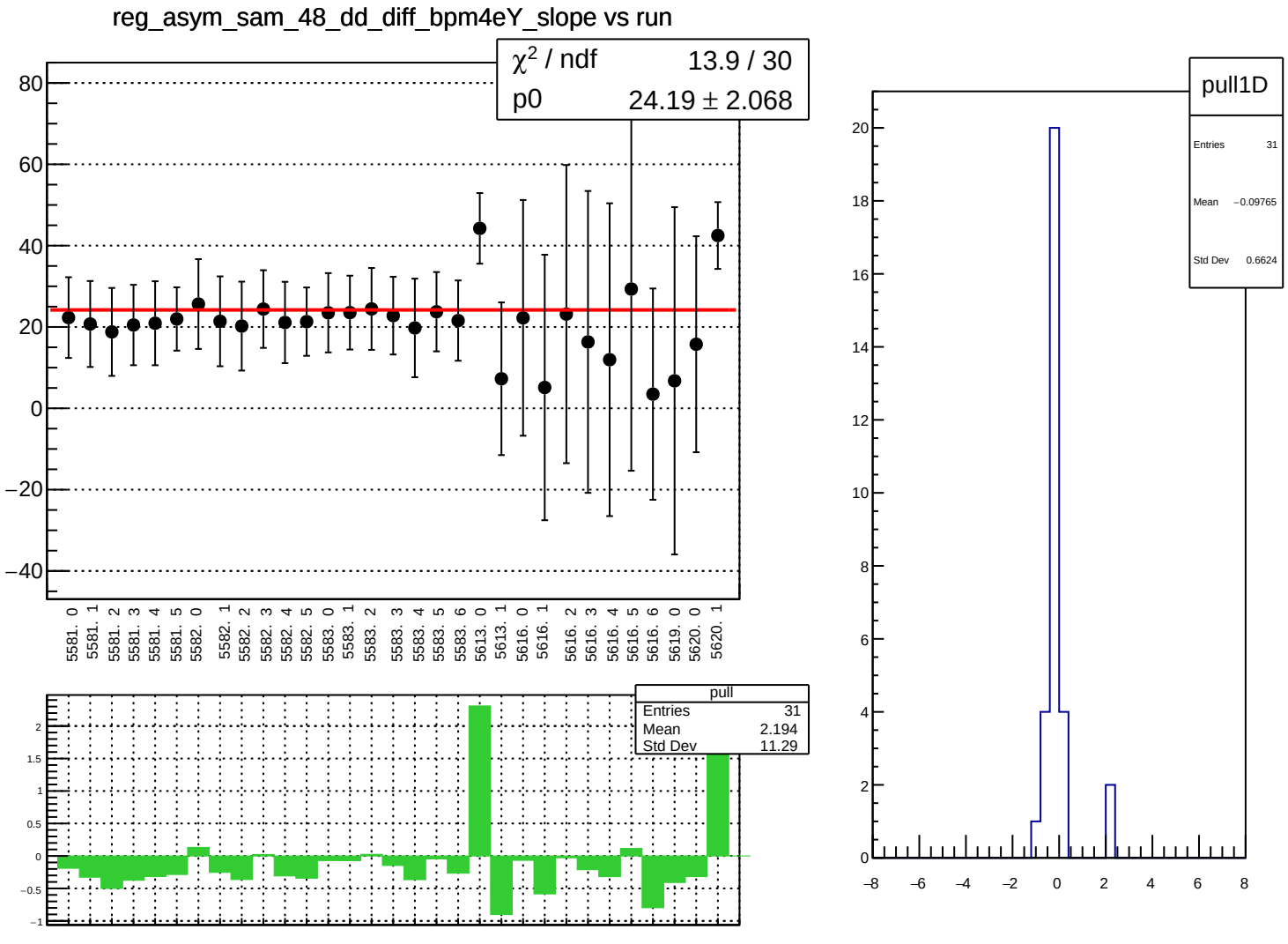

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1346 / 30
p0 −2.518 ± 0.09081
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.62
Std Dev 24.96
5
0
−5
−10
−15
pull1D
Entries 31
Mean 1.971
Std Dev 1.809
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

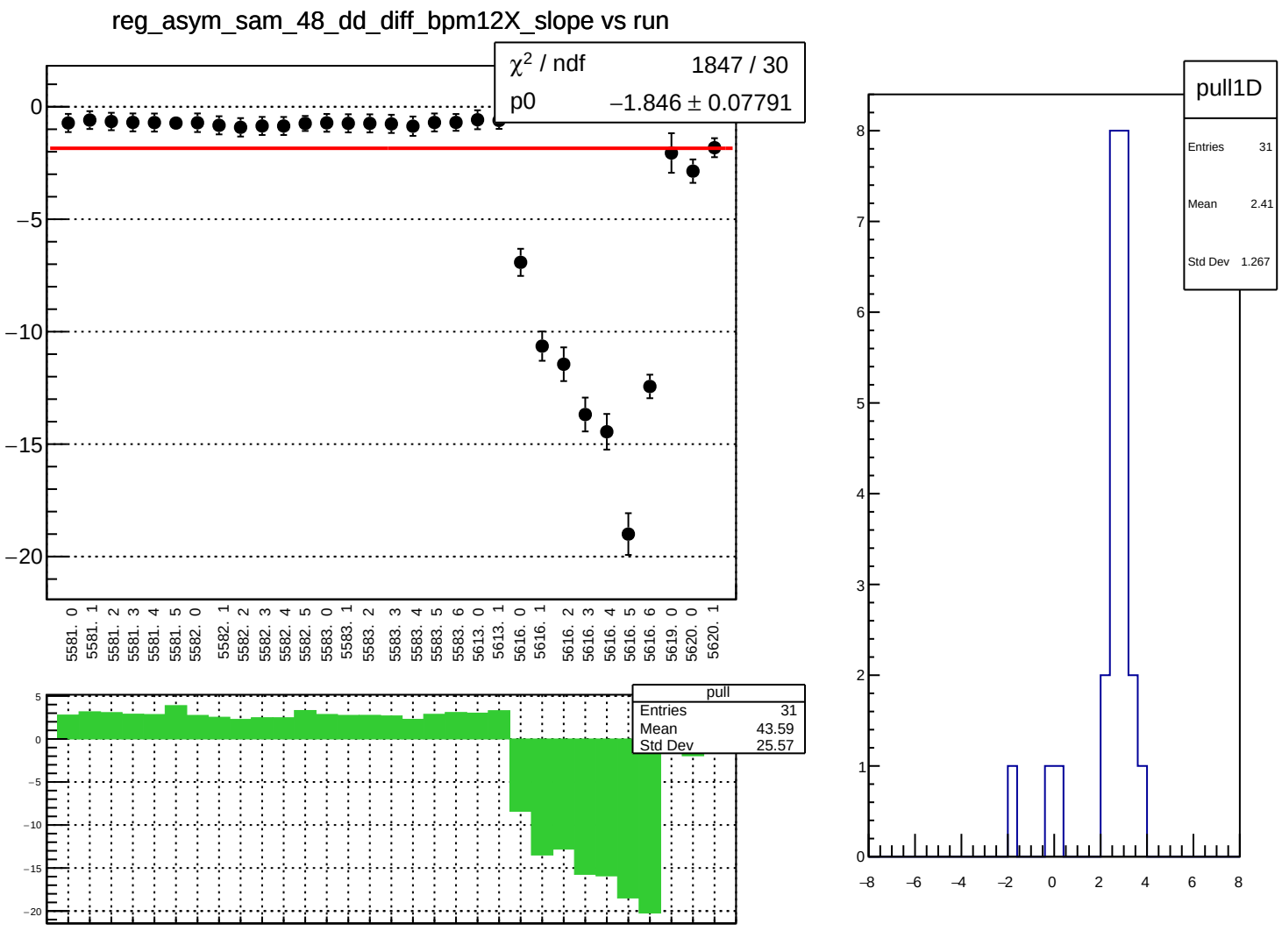

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 644.7 / 30
p0 −63.47 ± 2.824
0
−100
−200
−300
−400
−500
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.45
Std Dev 16.82
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 31
Mean 0.7555
Std Dev 1.47
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

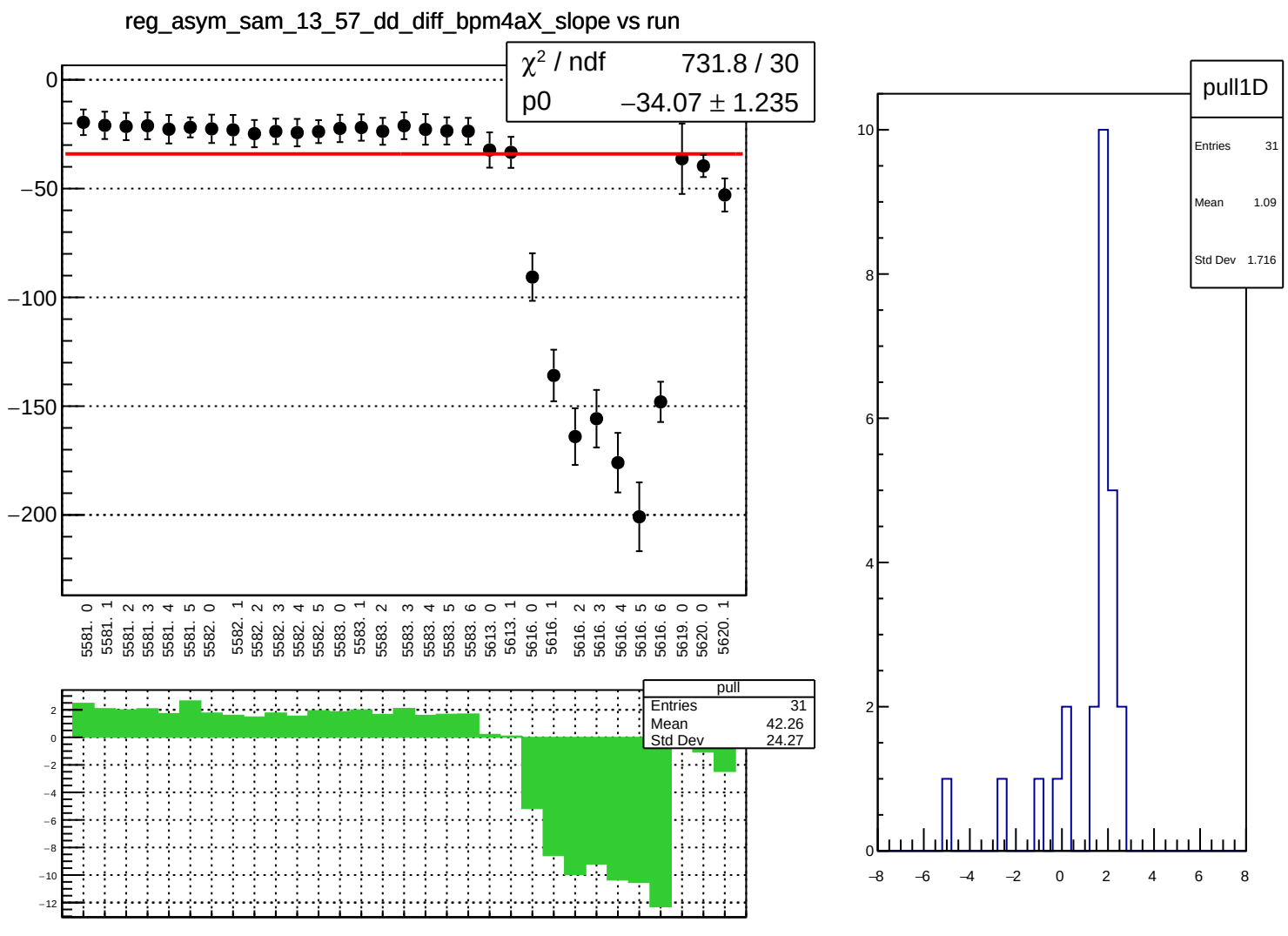

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.64 / 30
p0 49.6 ± 1.572
110
100
90
80
70
60
50
40
30
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.02
Std Dev 8.499
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

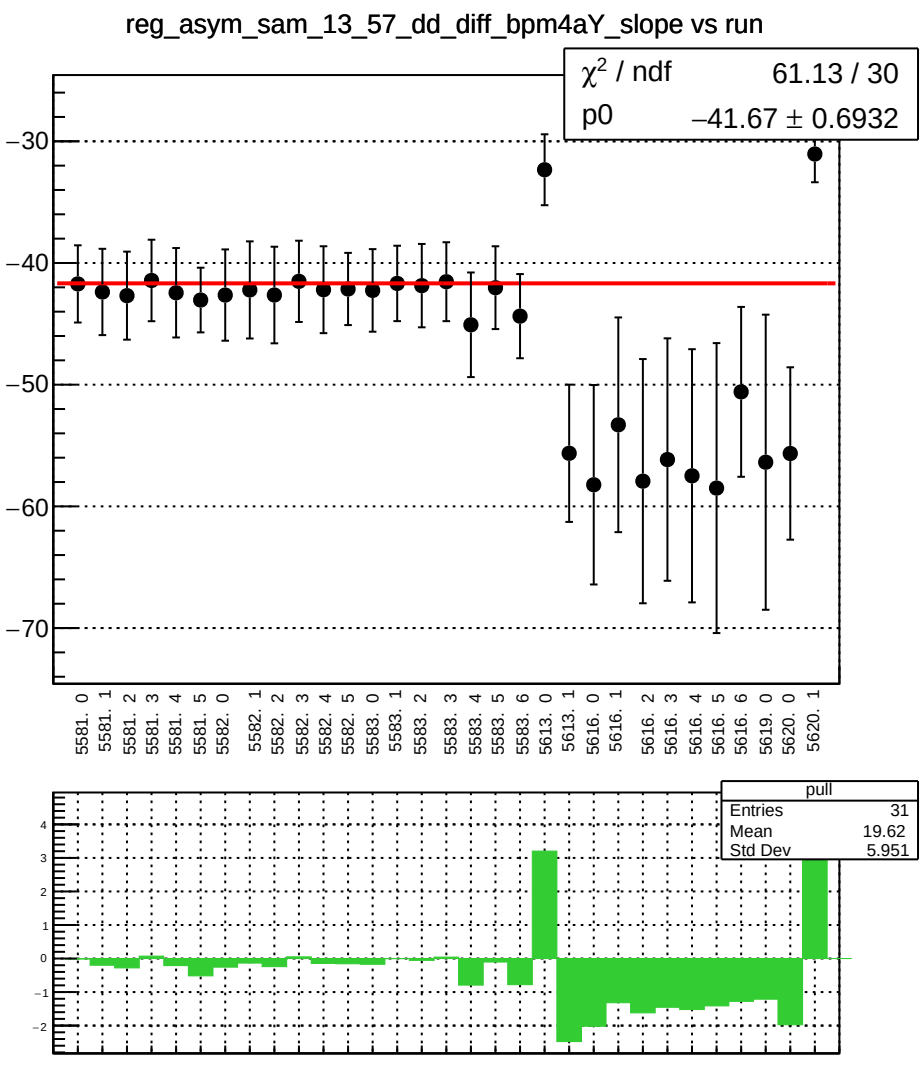

pull1D
Entries 31
Mean 0.2156
Std Dev 0.7661
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

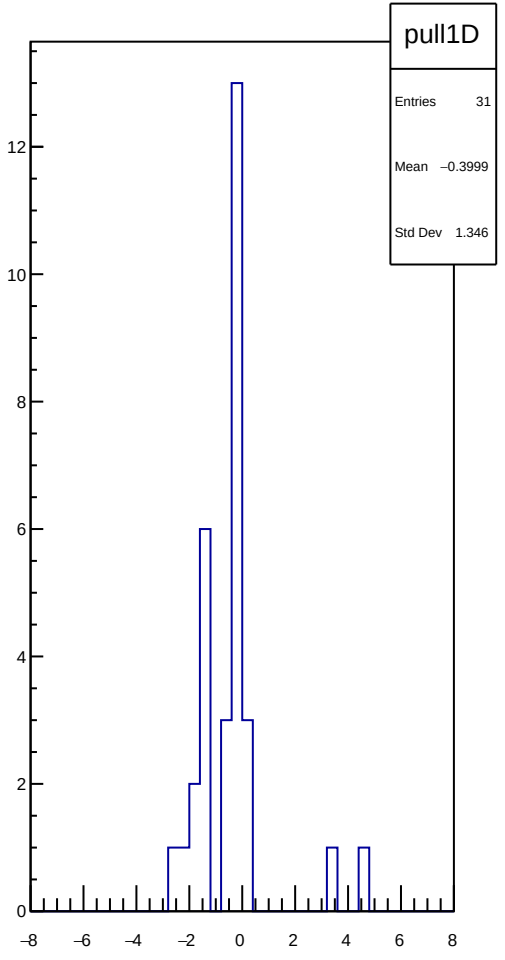

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 570.3 / 30
p0 6.645 ± 2.713
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.06
Std Dev 15.23
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.2947
Std Dev 2.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

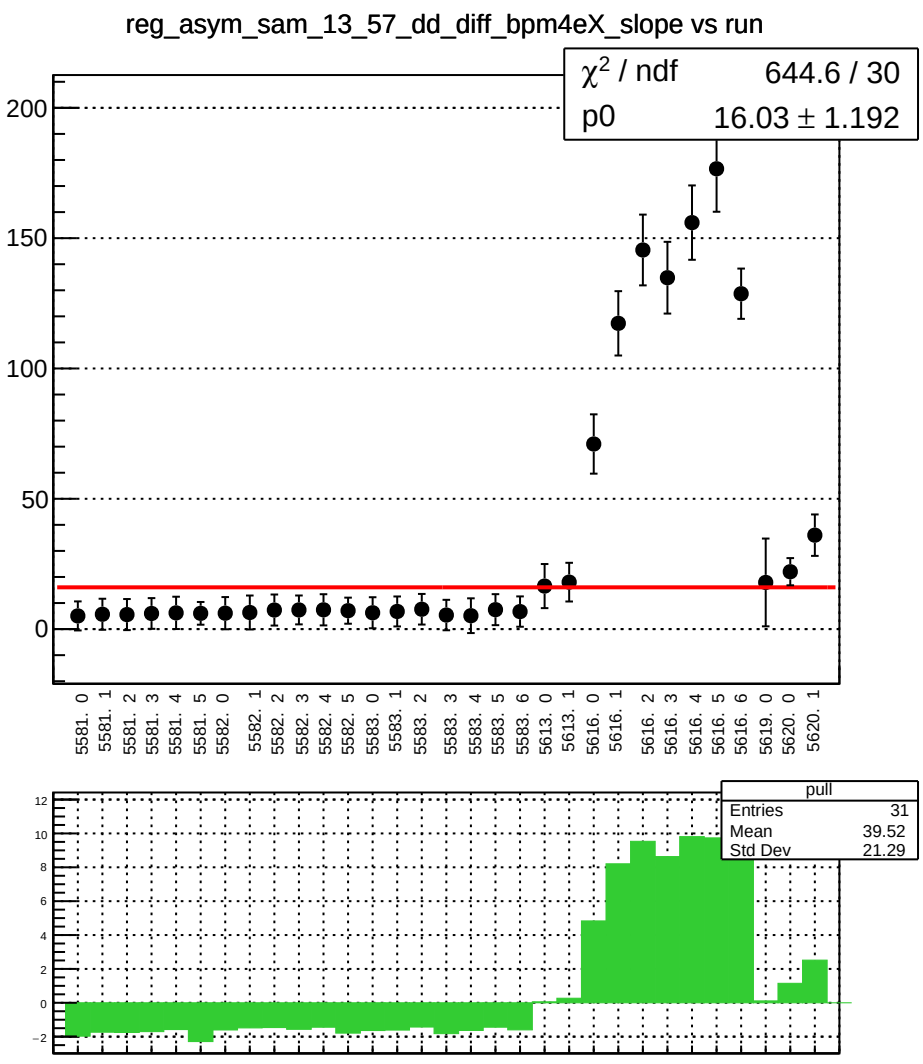

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.9 / 30
p0 24.19 ± 2.068
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 2.194
Std Dev 11.29
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.09765
Std Dev 0.6624
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

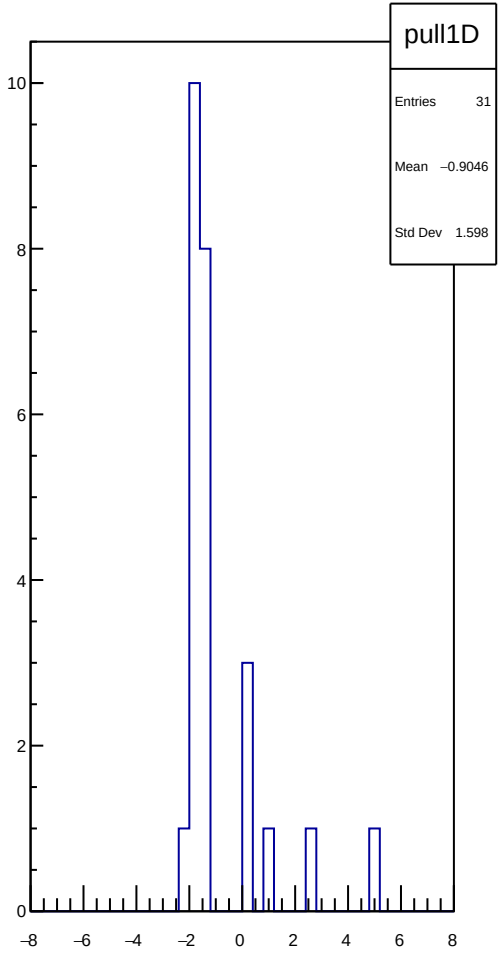

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1847 / 30
p0 −1.846 ± 0.07791
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.59
Std Dev 25.57
5
0
−5
−10
−15
−20
pull1D
Entries 31
Mean 2.41
Std Dev 1.267
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

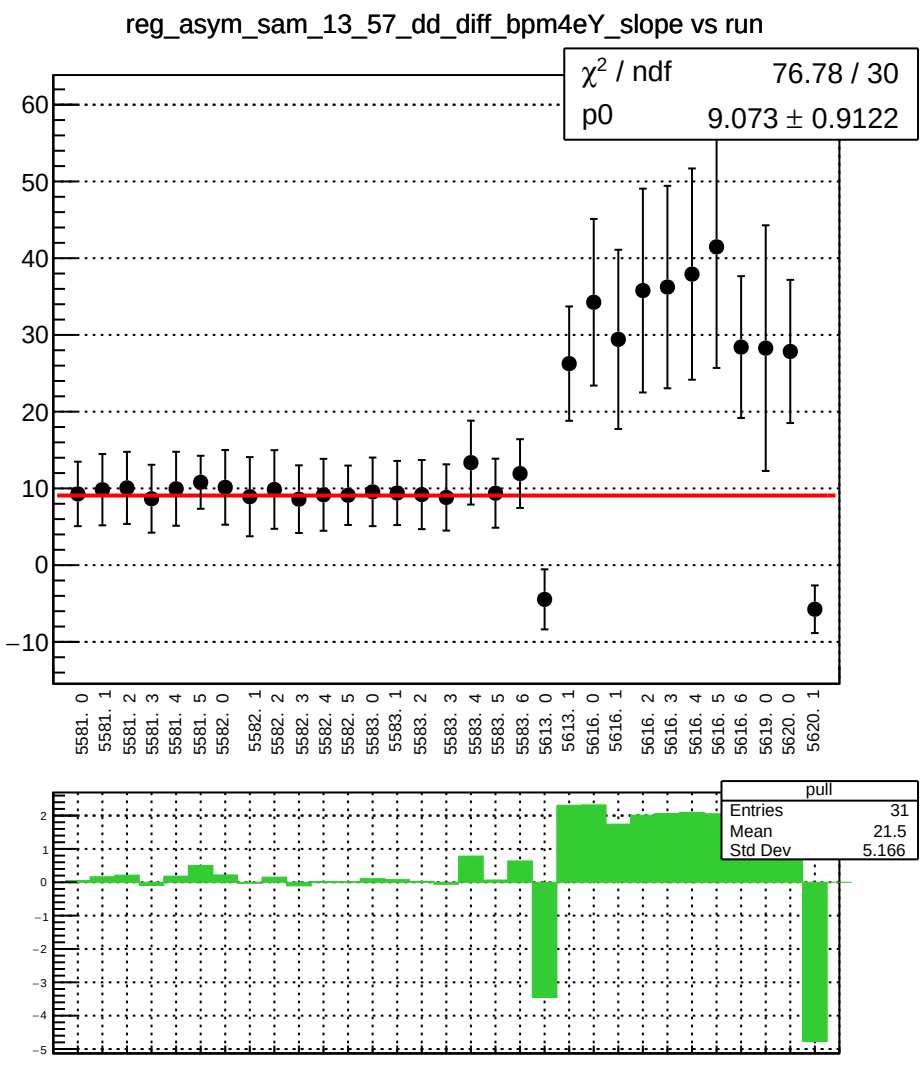

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 731.8 / 30
p0 −34.07 ± 1.235
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.26
Std Dev 24.27
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 31
Mean 1.09
Std Dev 1.716
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

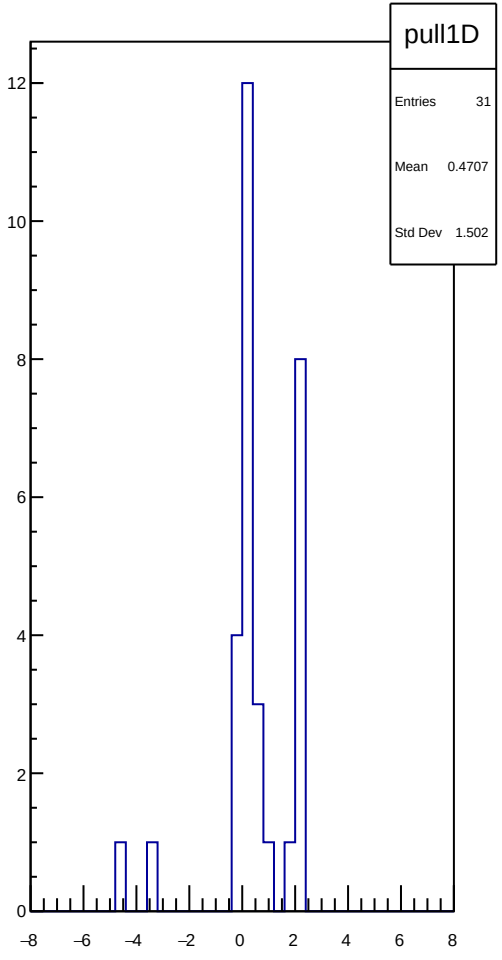

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.13 / 30
p0 −41.67 ± 0.6932
−30
−40
−50
−60
−70
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.62
Std Dev 5.951
4
3
2
1
0
−1
−2

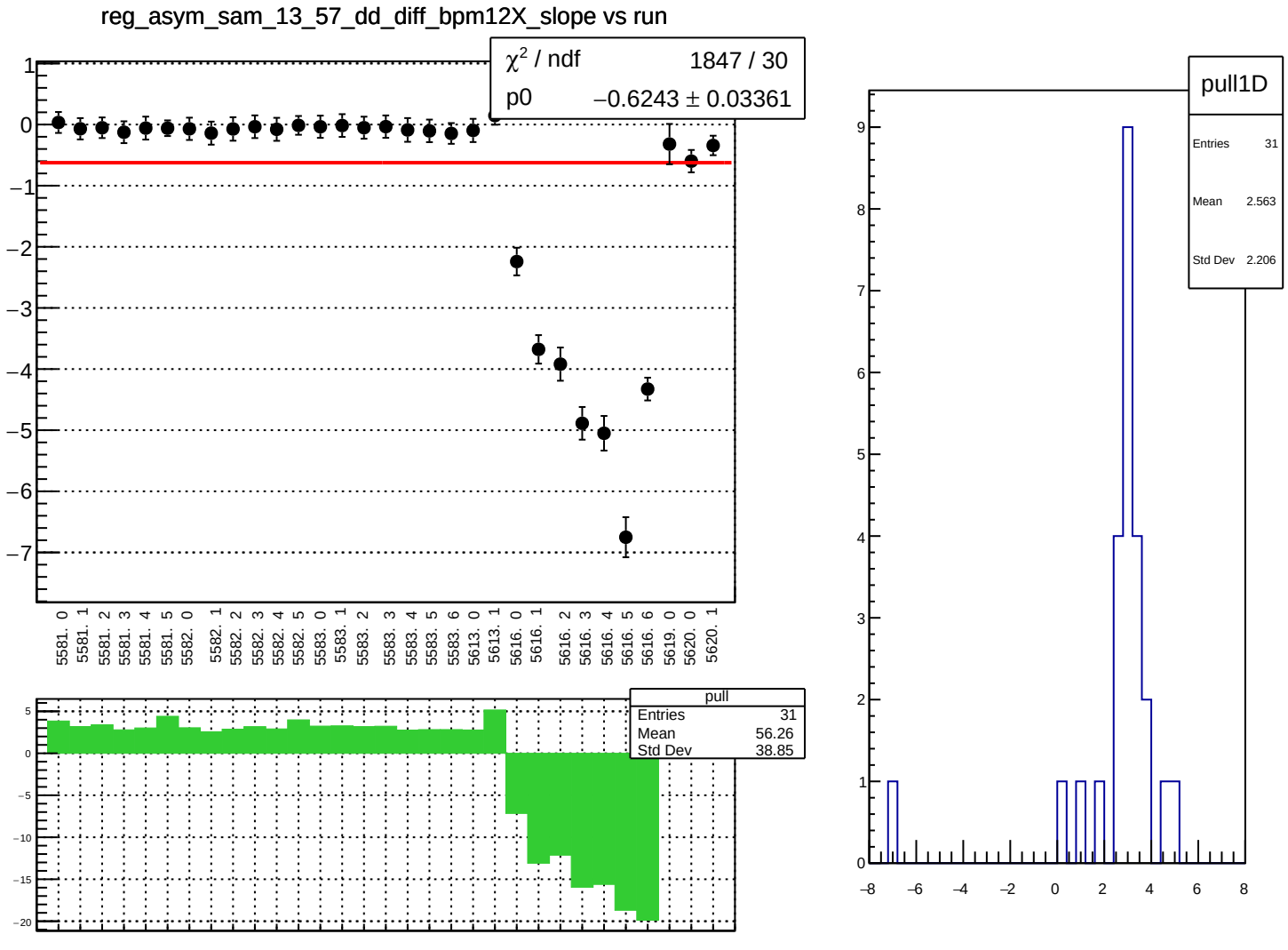

pull1D
Entries 31
Mean −0.3999
Std Dev 1.346
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

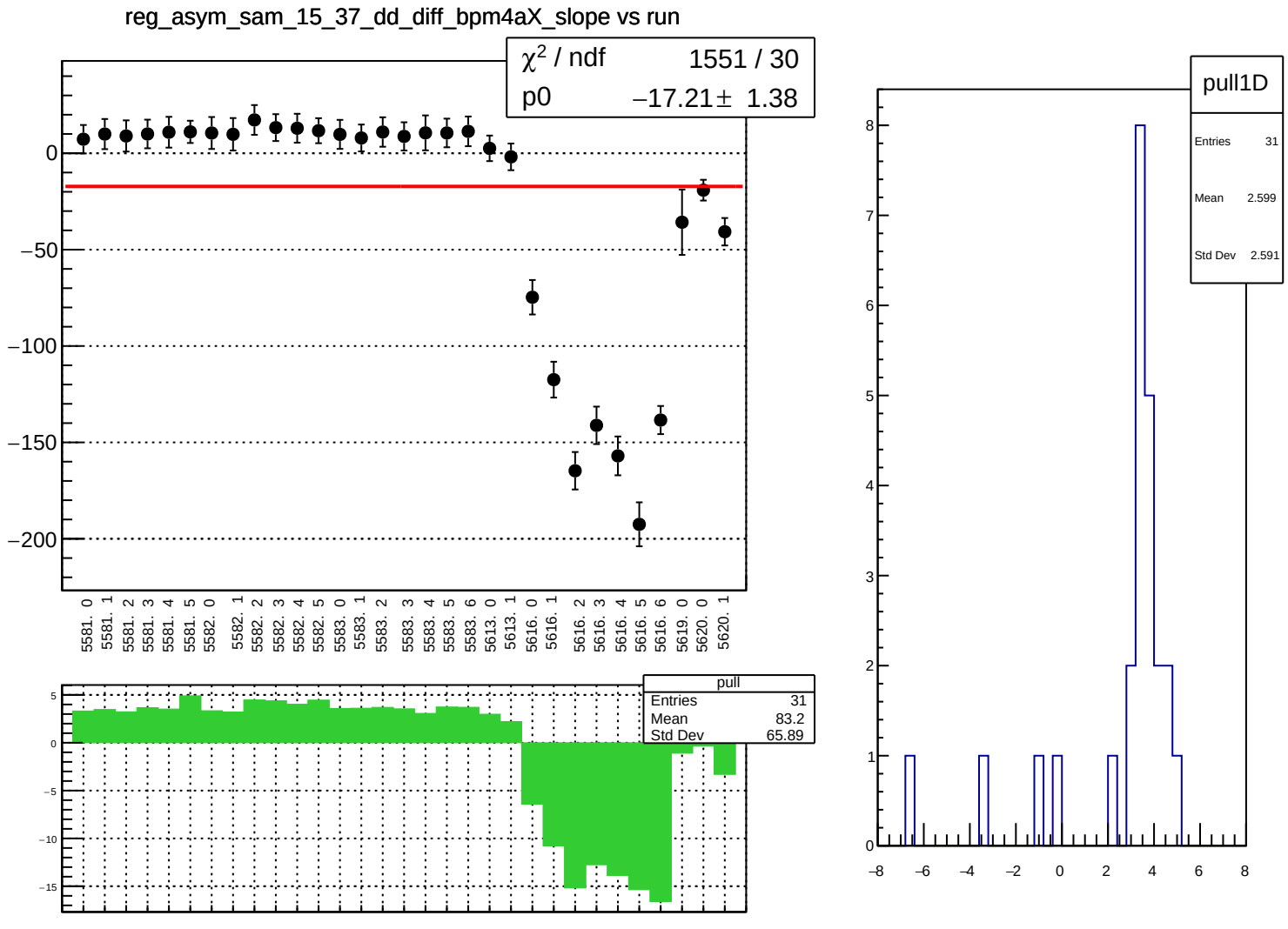

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 644.6 / 30
p0 16.03 ± 1.192
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 39.52
Std Dev 21.29
12
10
8
6
4
2
0
−2

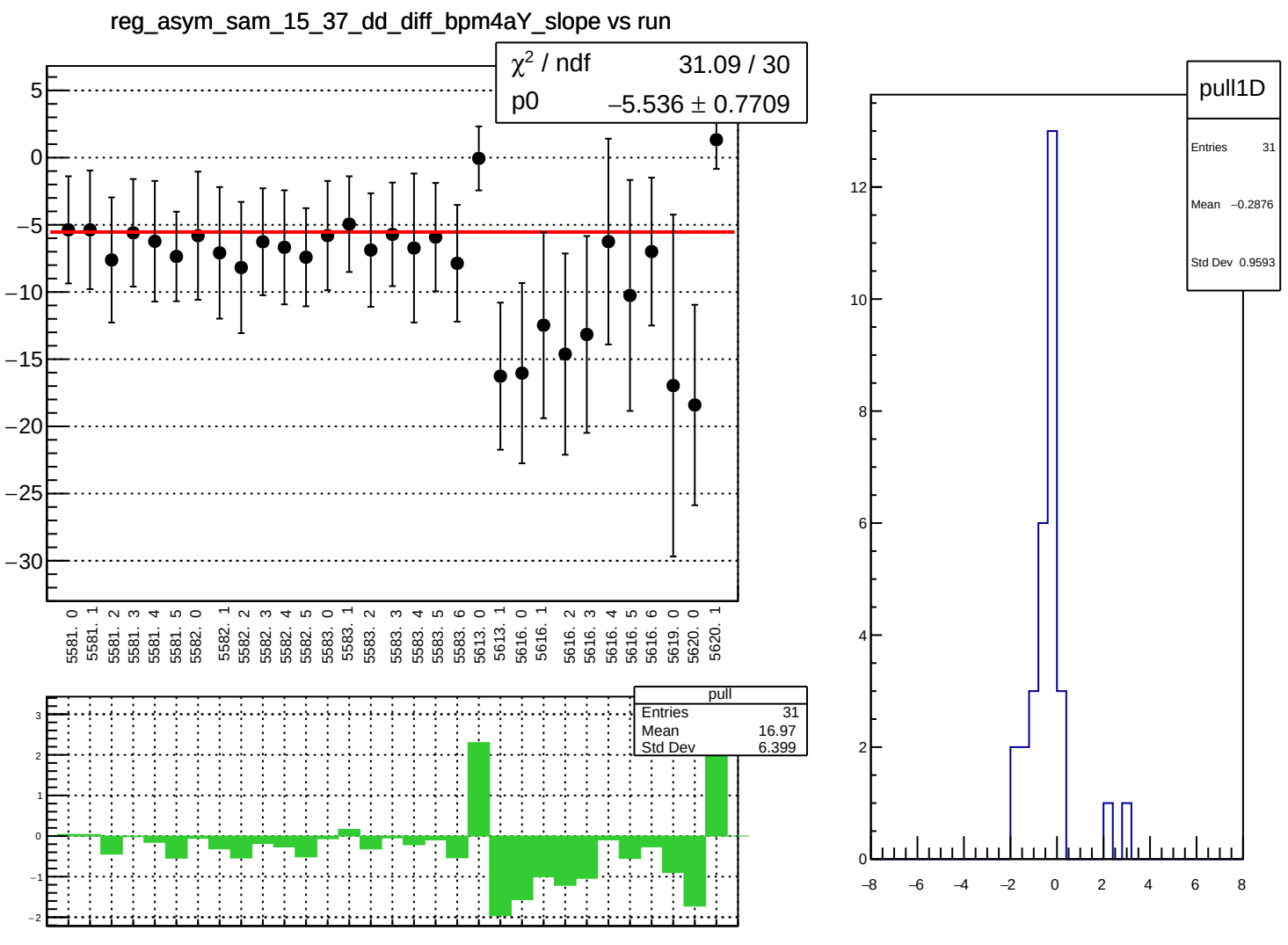

pull1D
Entries 31
Mean −0.9046
Std Dev 1.598
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

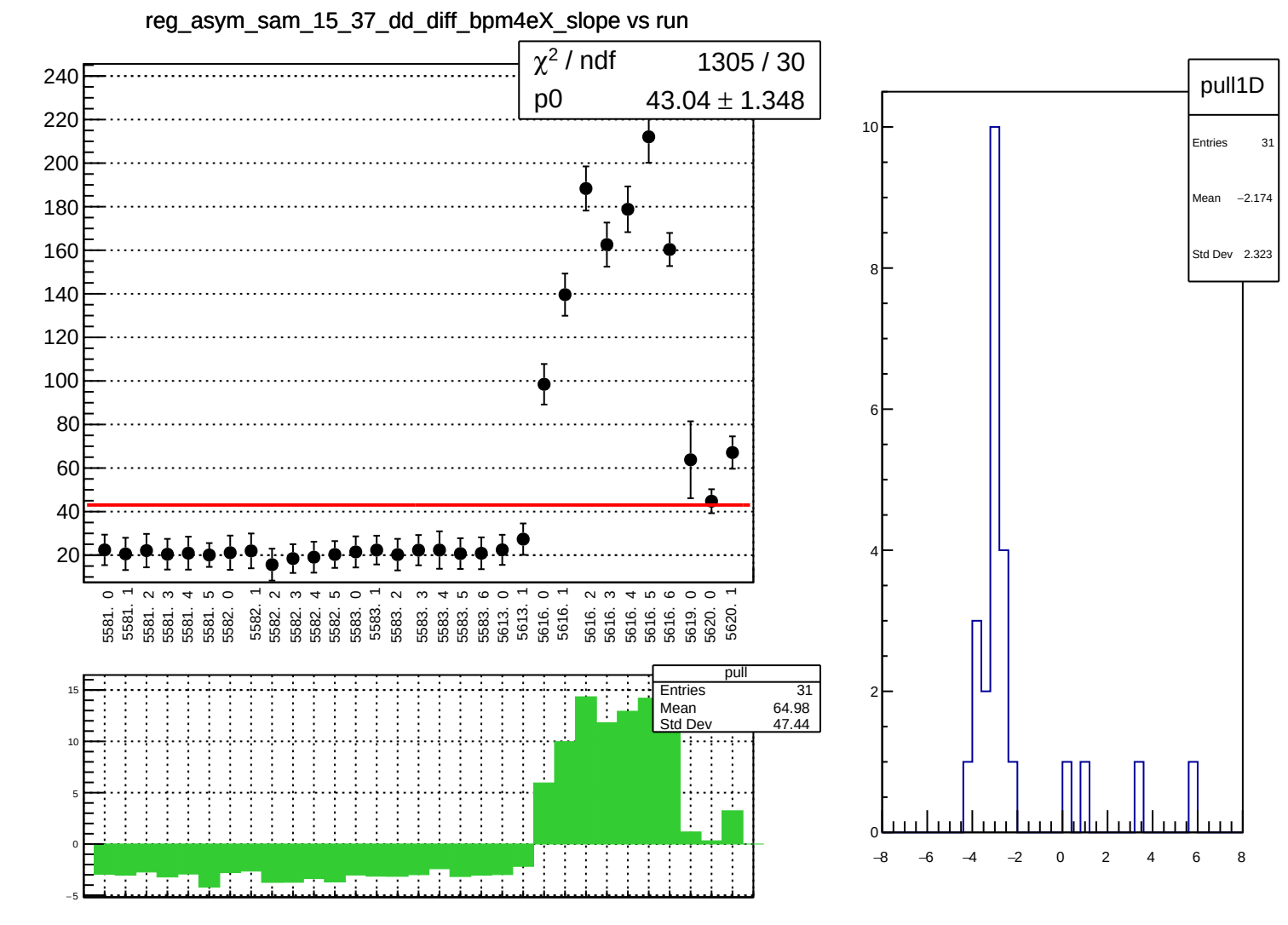

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.78 / 30
p0 9.073 ± 0.9122
pull
Entries 31
Mean 21.5
Std Dev 5.166

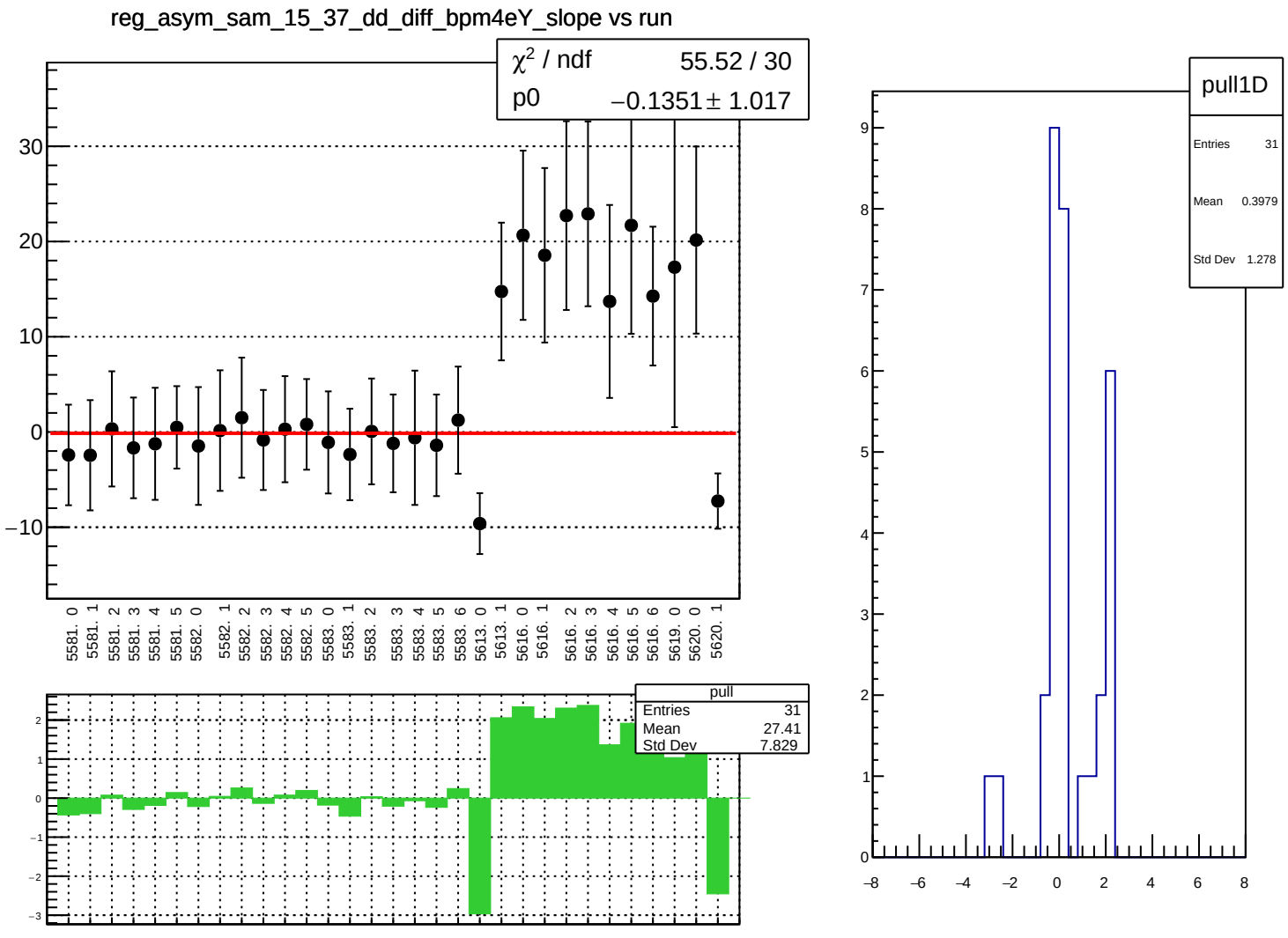

pull1D
Entries 31
Mean 0.4707
Std Dev 1.502

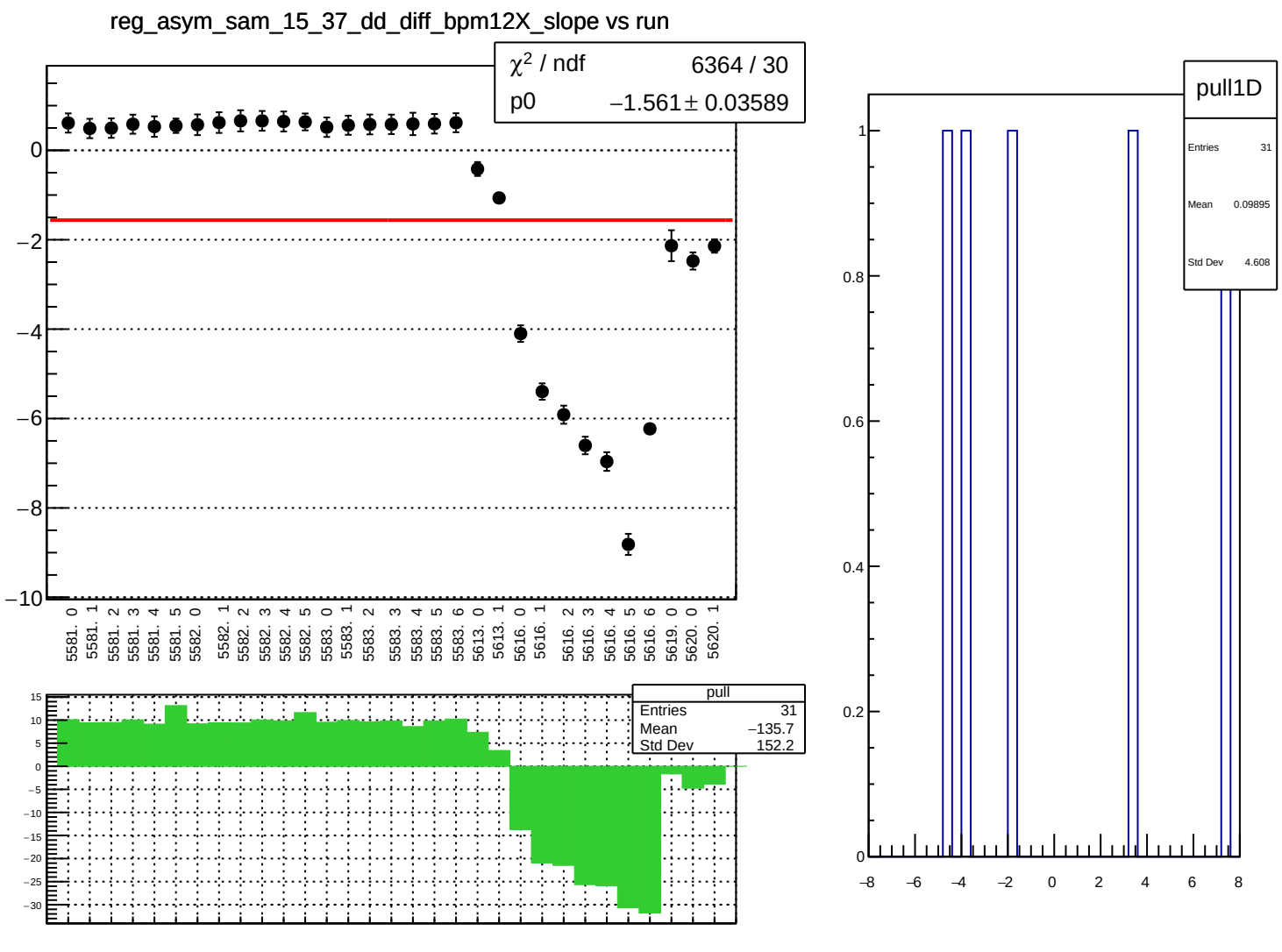

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 1847 / 30
p0 −0.6243 ± 0.03361
pull
Entries 31
Mean 56.26
Std Dev 38.85
pull1D
Entries 31
Mean 2.563
Std Dev 2.206

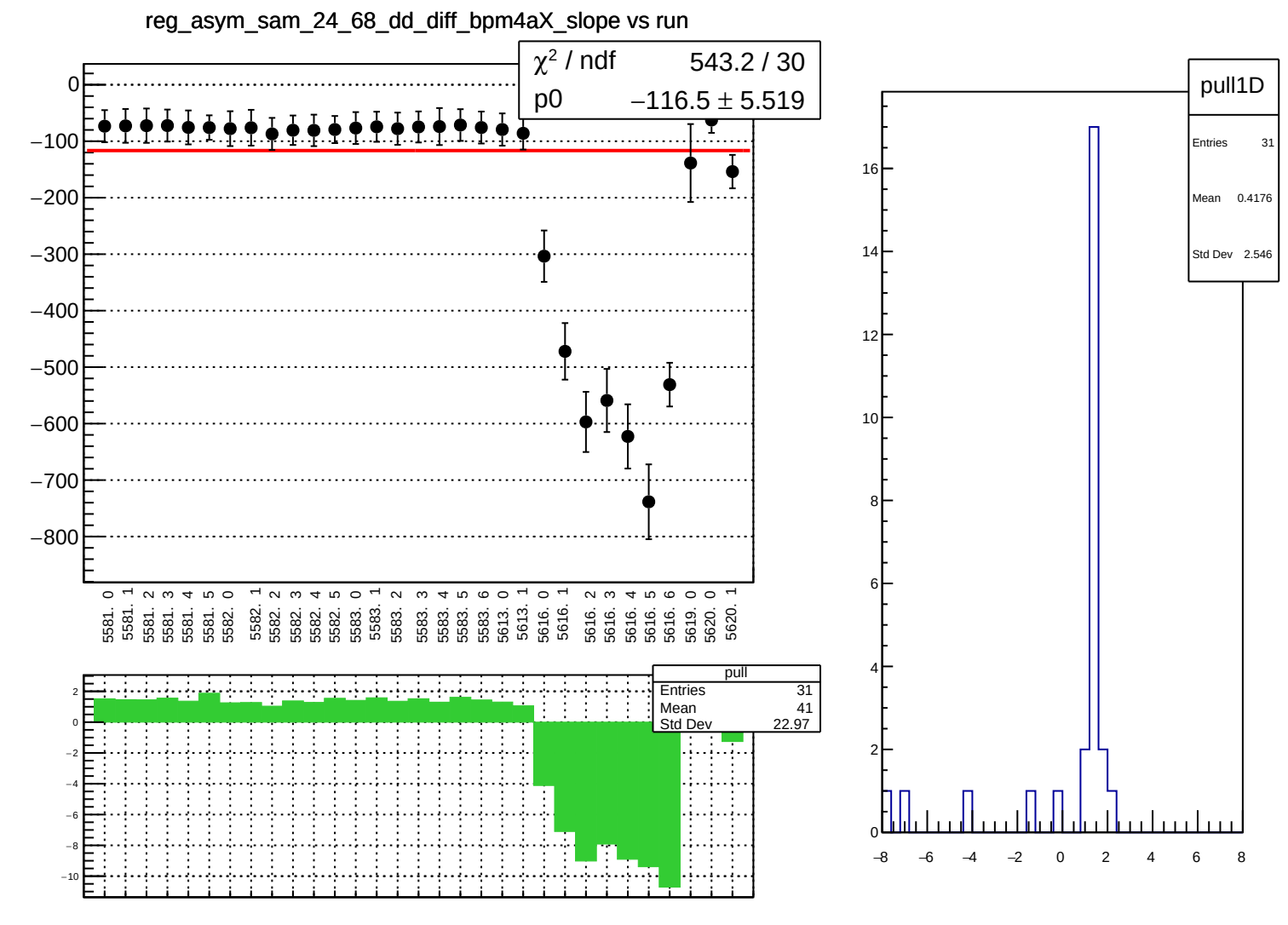

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 1551 / 30
p0 −17.21± 1.38
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 83.2
Std Dev 65.89
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.599
Std Dev 2.591
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

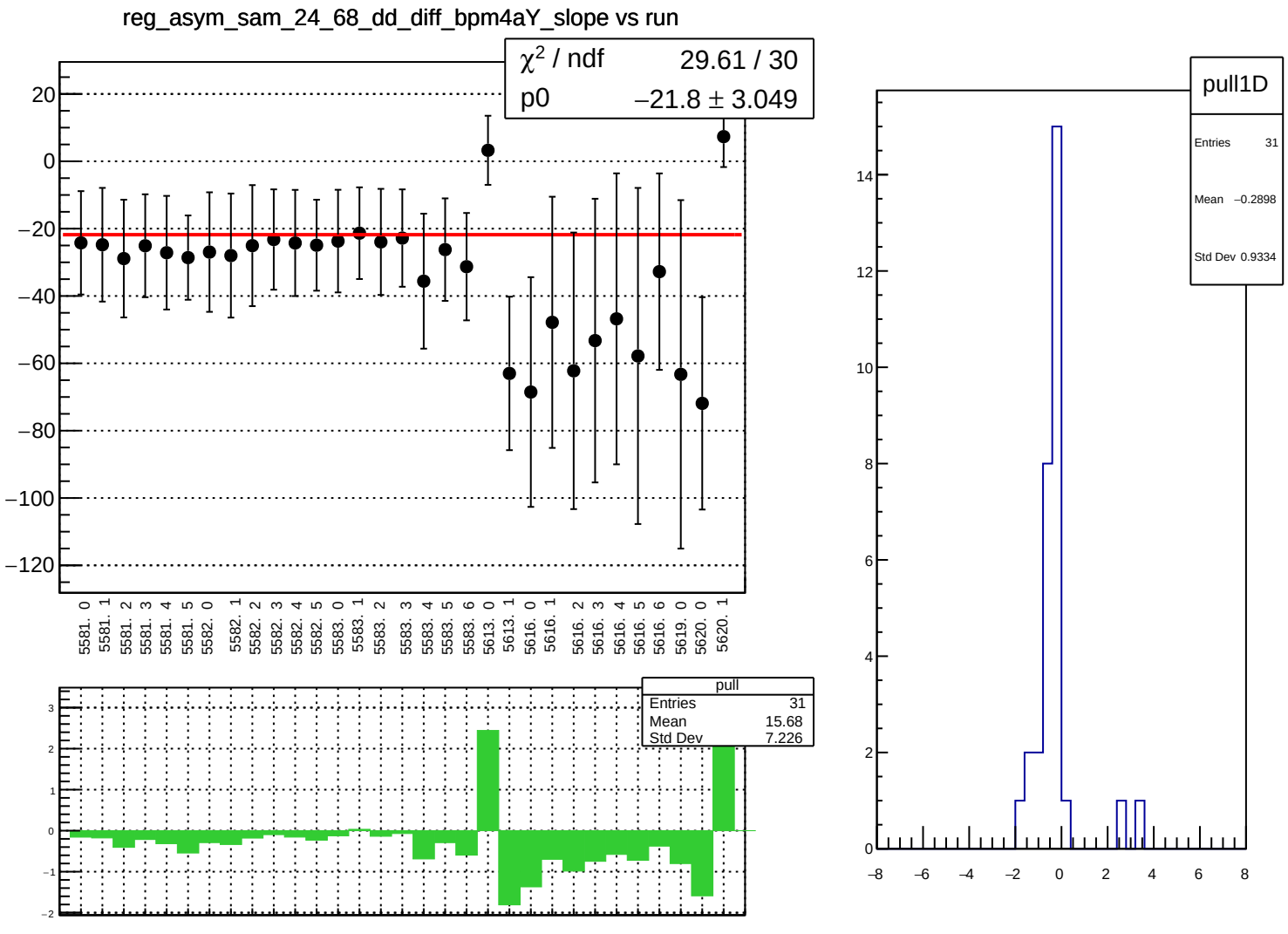

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.09 / 30
p0 −5.536 ± 0.7709
5
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.97
Std Dev 6.399
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.2876
Std Dev 0.9593
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

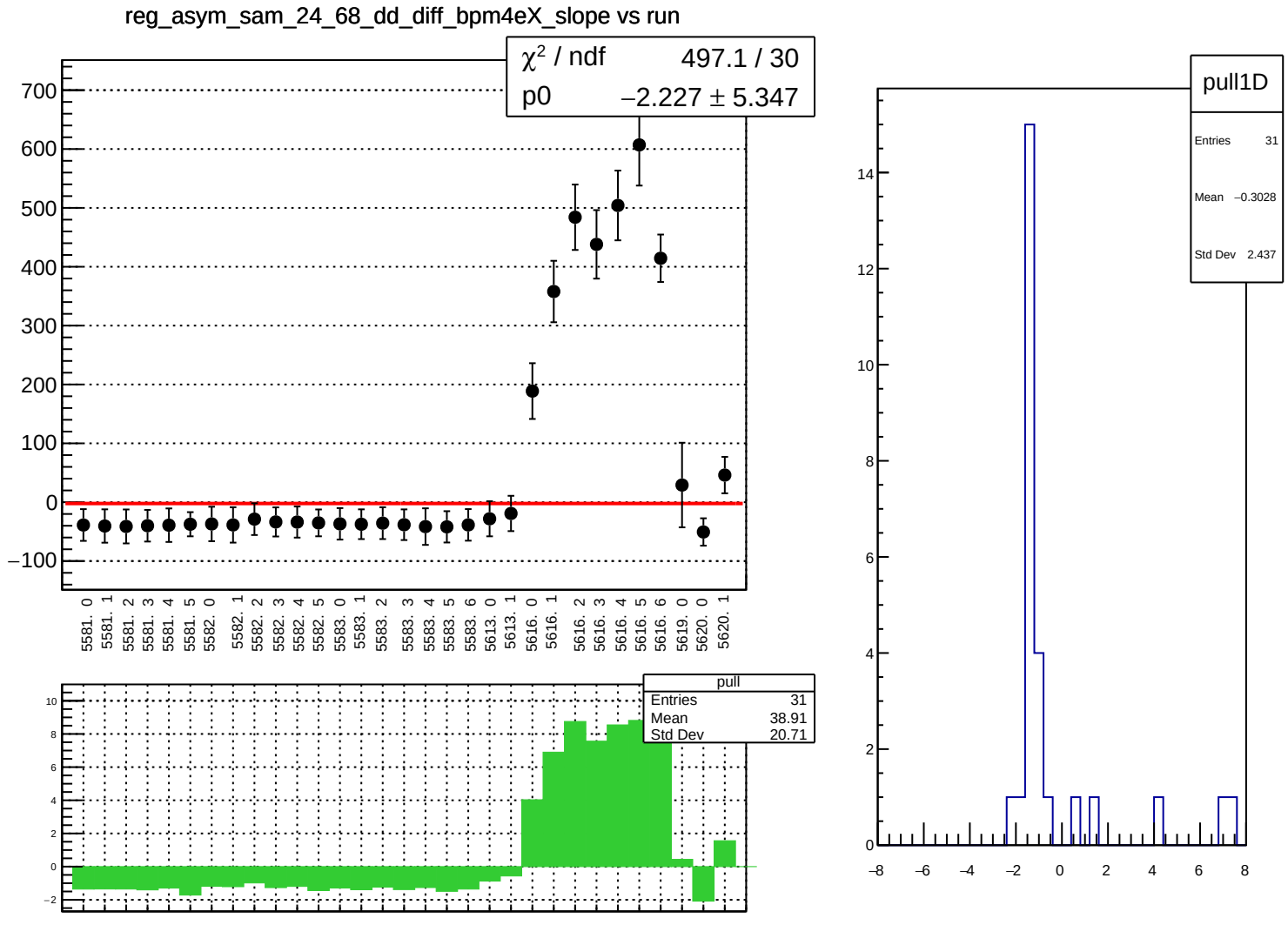

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1305 / 30
p0 43.04 ± 1.348
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 64.98
Std Dev 47.44
15
10
5
0
−5
pull1D
Entries 31
Mean −2.174
Std Dev 2.323
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

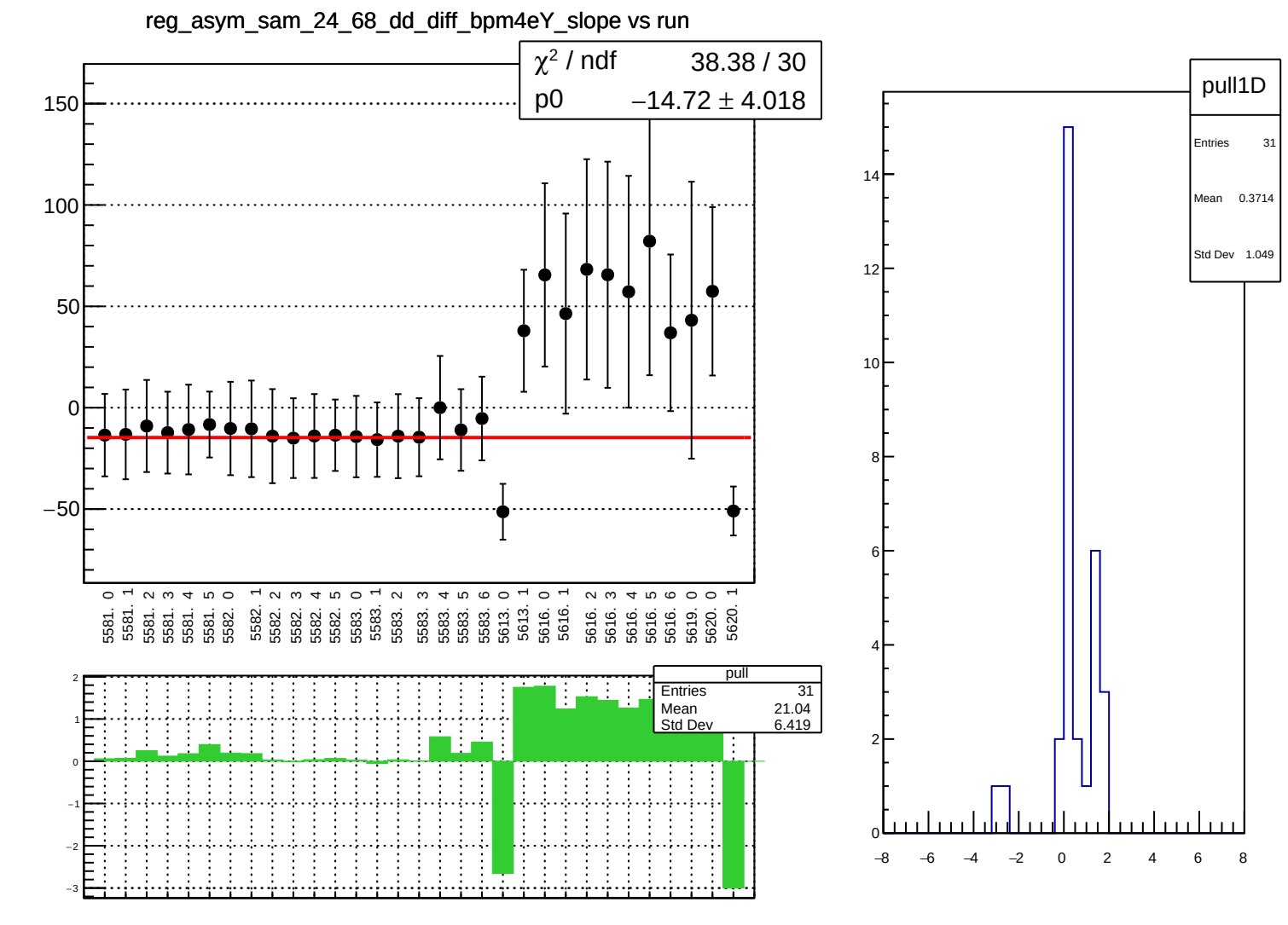

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.52 / 30
p0 −0.1351 ± 1.017
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 27.41
Std Dev 7.829
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.3979
Std Dev 1.278
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

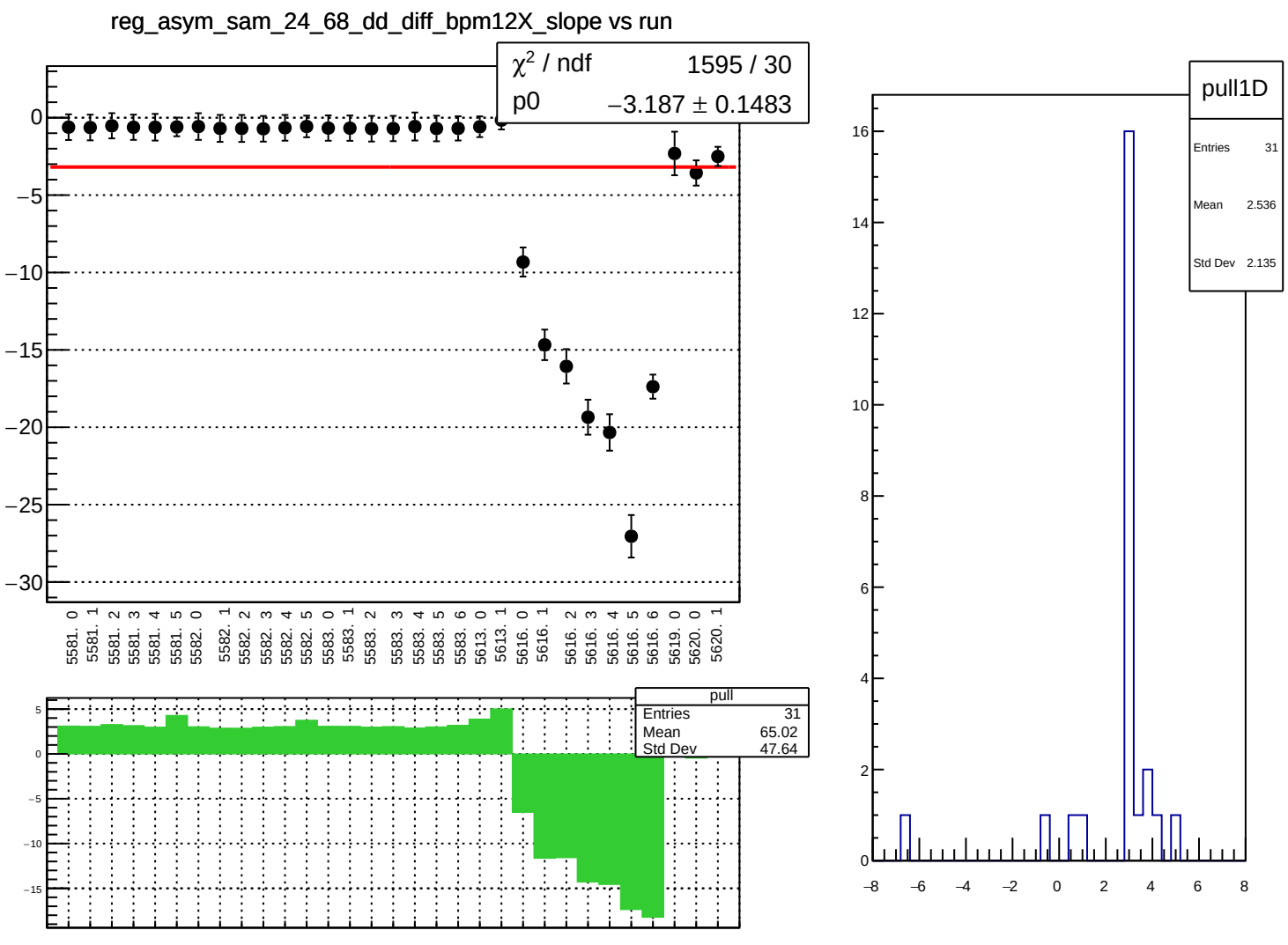

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6364 / 30
p0 −1.561 ± 0.03589
0
−2
−4
−6
−8
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −135.7
Std Dev 152.2
15
10
5
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 31
Mean 0.09895
Std Dev 4.608
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

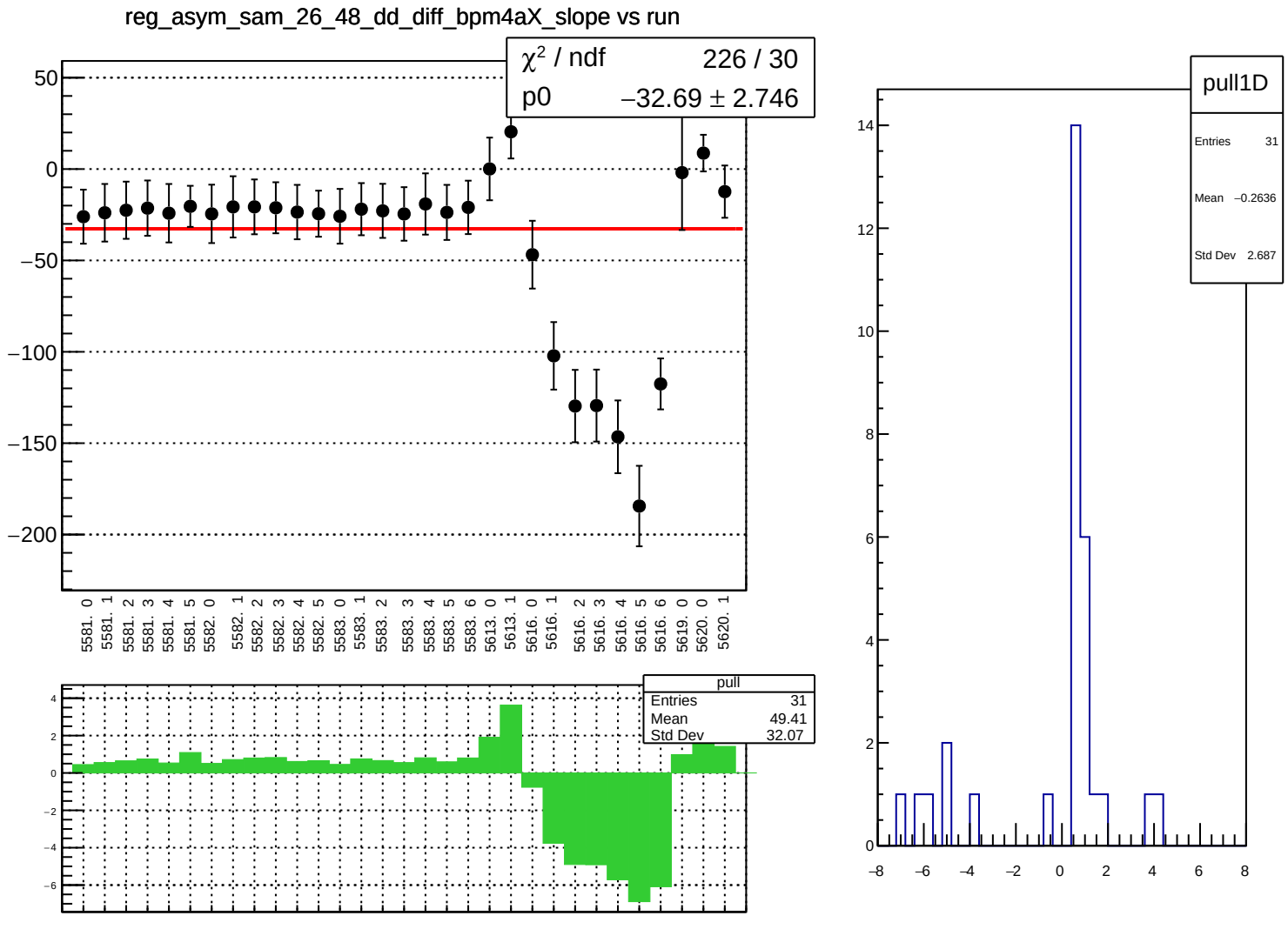

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 543.2 / 30
p0 −116.5 ± 5.519
0
−100
−200
−300
−400
−500
−600
−700
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 41
Std Dev 22.97
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean 0.4176
Std Dev 2.546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

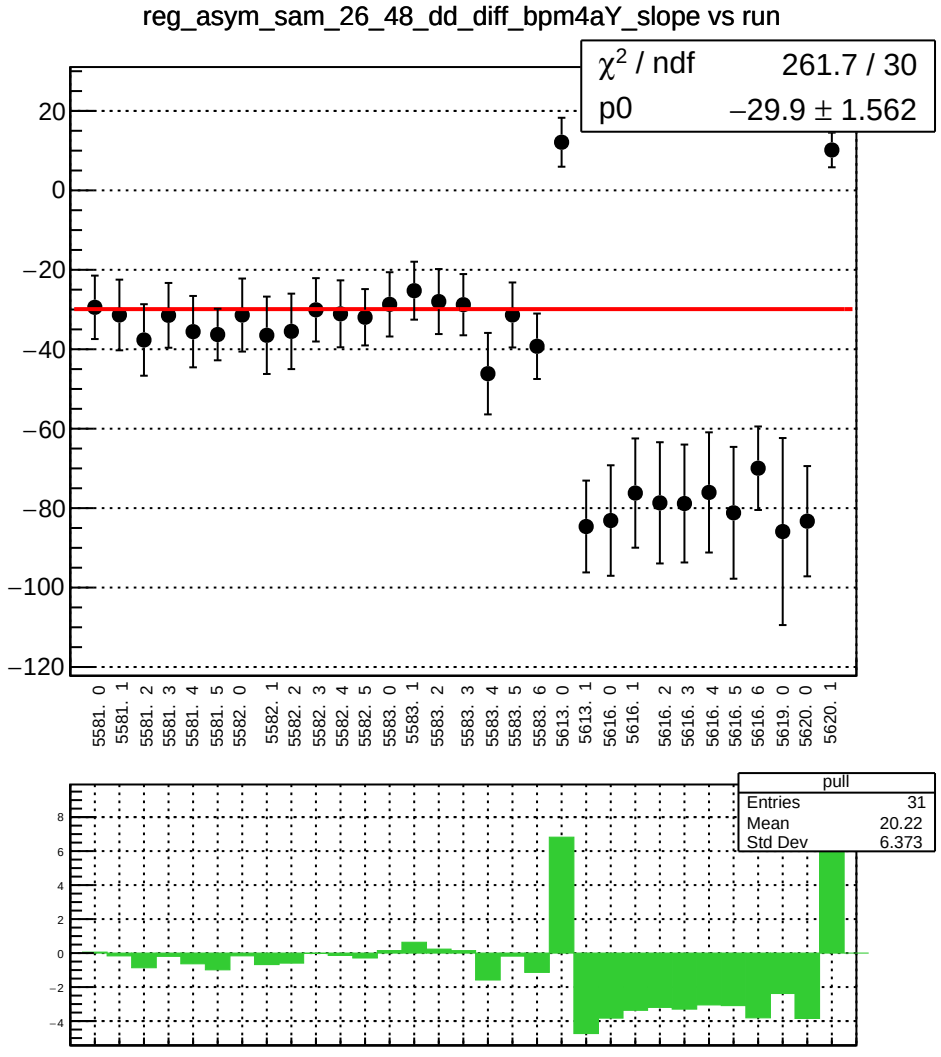

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.61 / 30
p0 −21.8 ± 3.049
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15.68
Std Dev 7.226
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.2898
Std Dev 0.9334
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

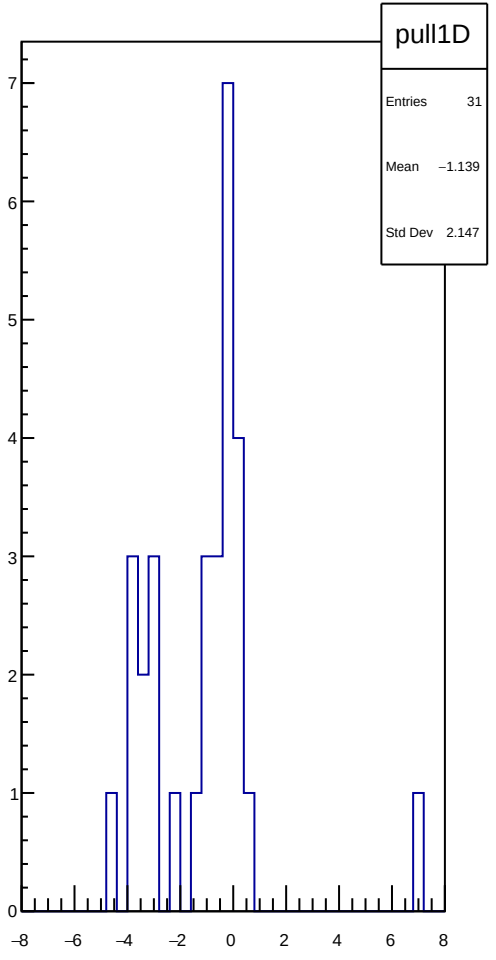

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 497.1 / 30
p0 −2.227 ± 5.347
700
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.91
Std Dev 20.71
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.3028
Std Dev 2.437
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

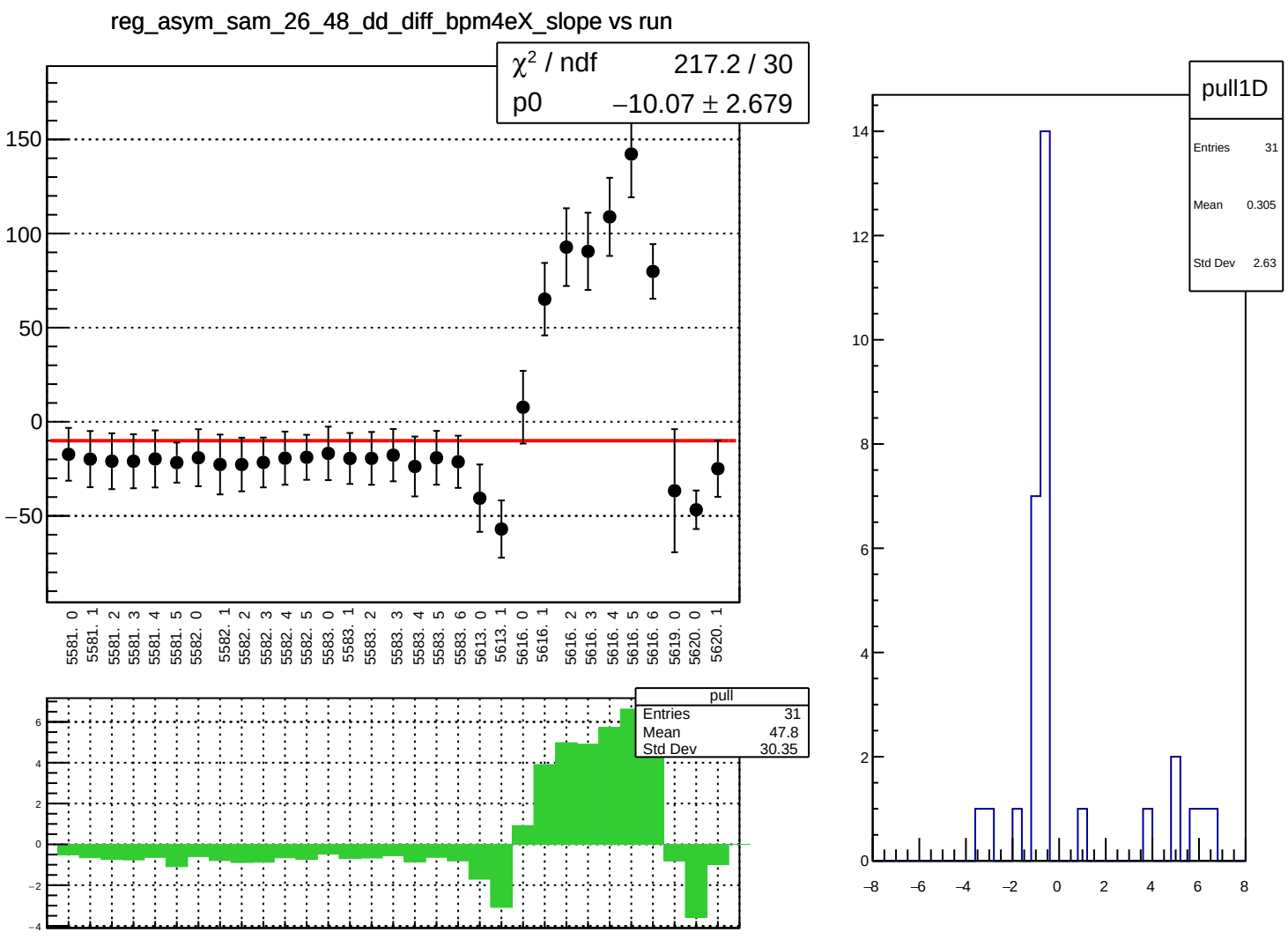

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.38 / 30
p0 −14.72 ± 4.018
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 21.04
Std Dev 6.419
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.3714
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

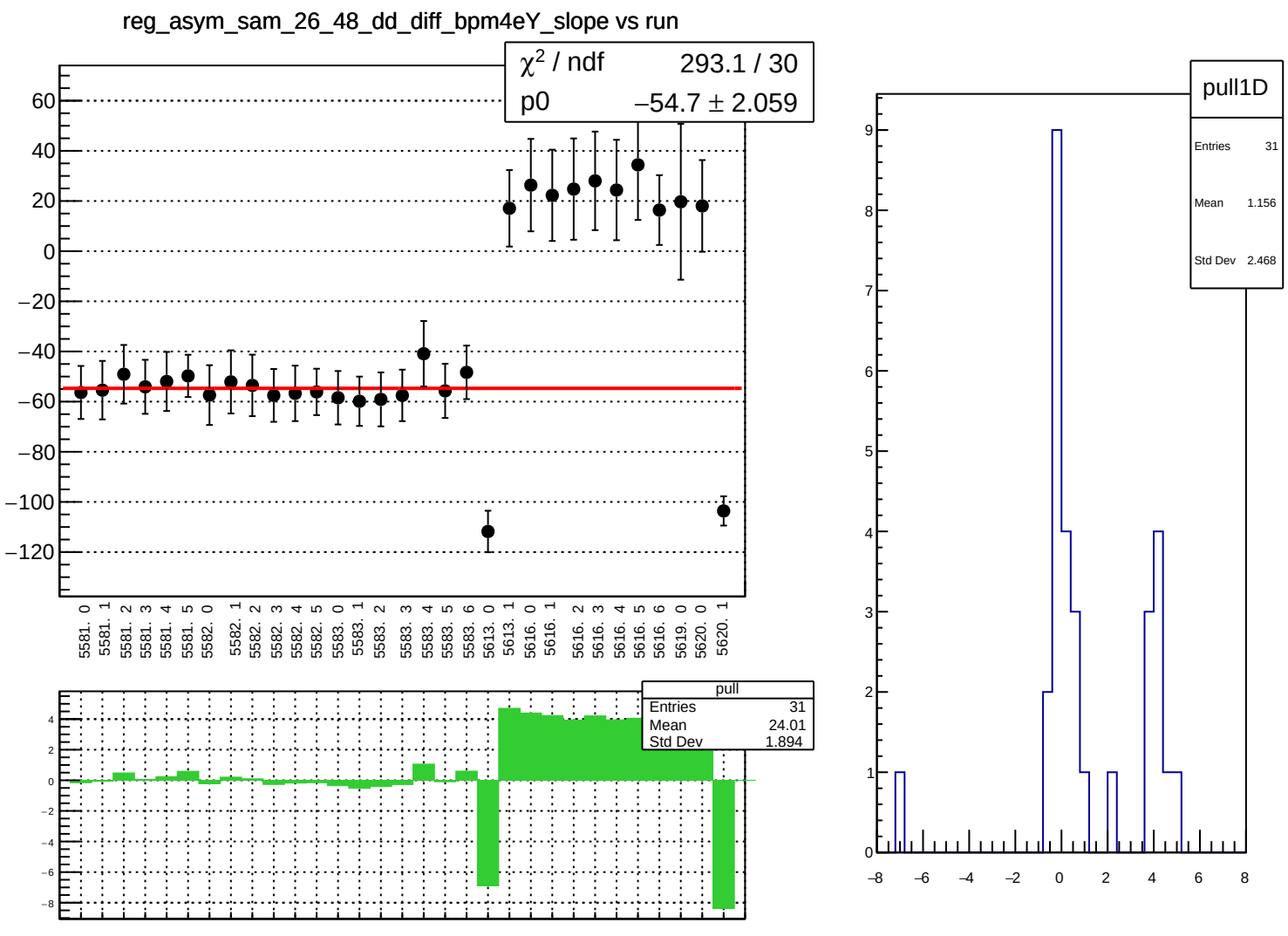

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1595 / 30
p0 −3.187 ± 0.1483
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 65.02
Std Dev 47.64
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.536
Std Dev 2.135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

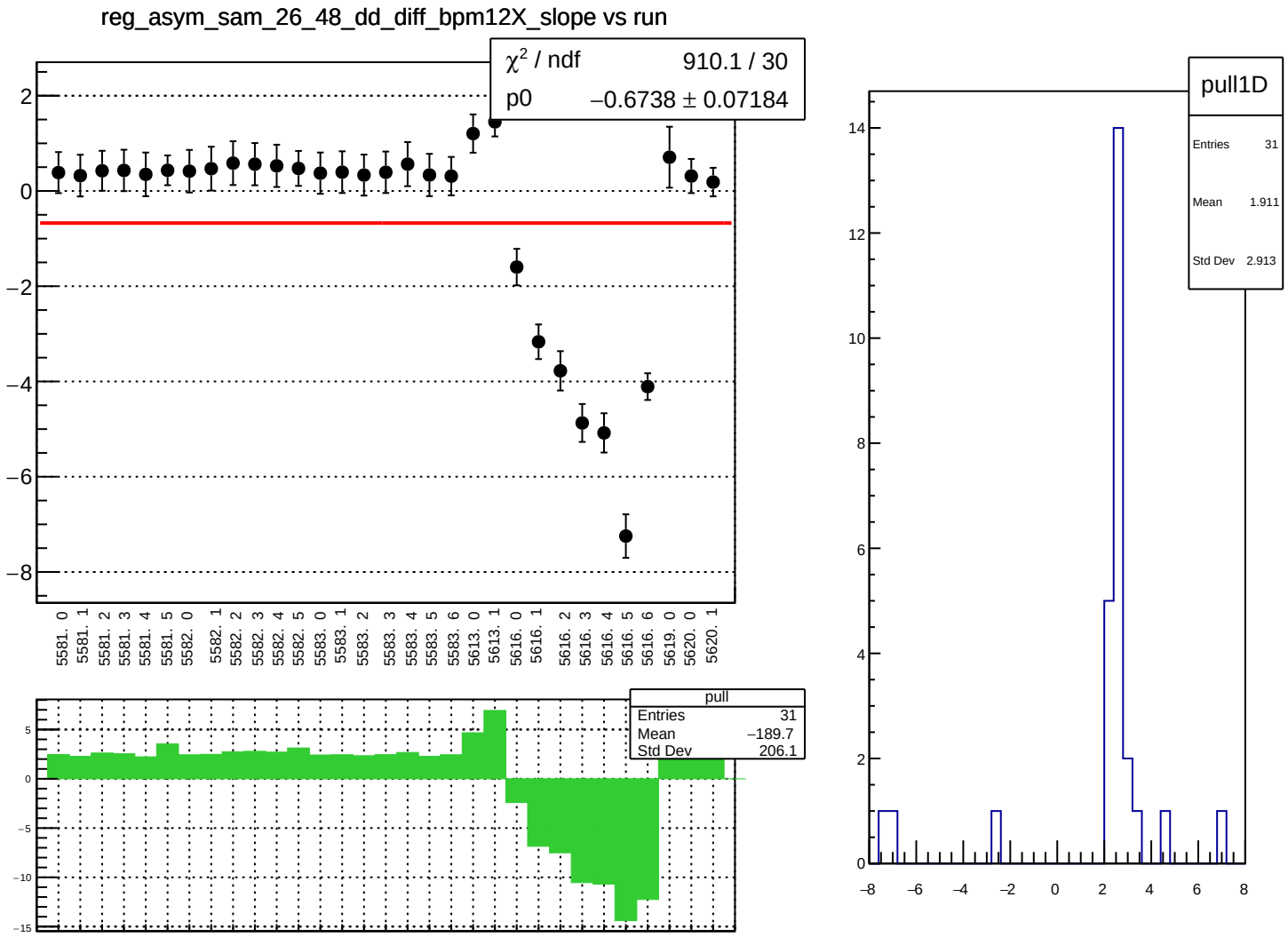

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 226 / 30
p0 −32.69 ± 2.746
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 49.41
Std Dev 32.07
4
2
0
−2
−4
−6
pull1D
Entries 31
Mean −0.2636
Std Dev 2.687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

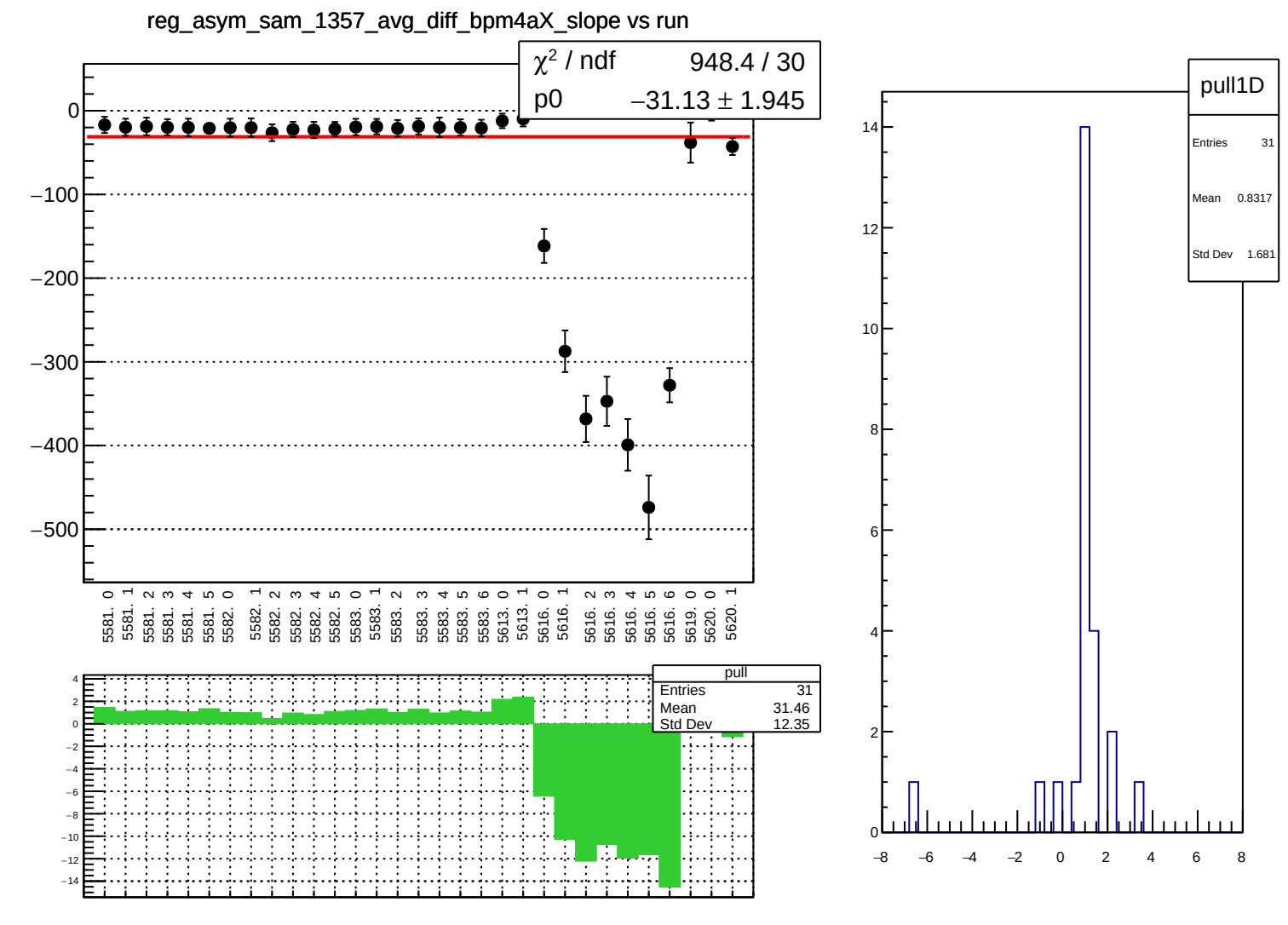

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 261.7 / 30
p0 −29.9 ± 1.562
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 20.22
Std Dev 6.373
8
6
4
2
0
−2
−4

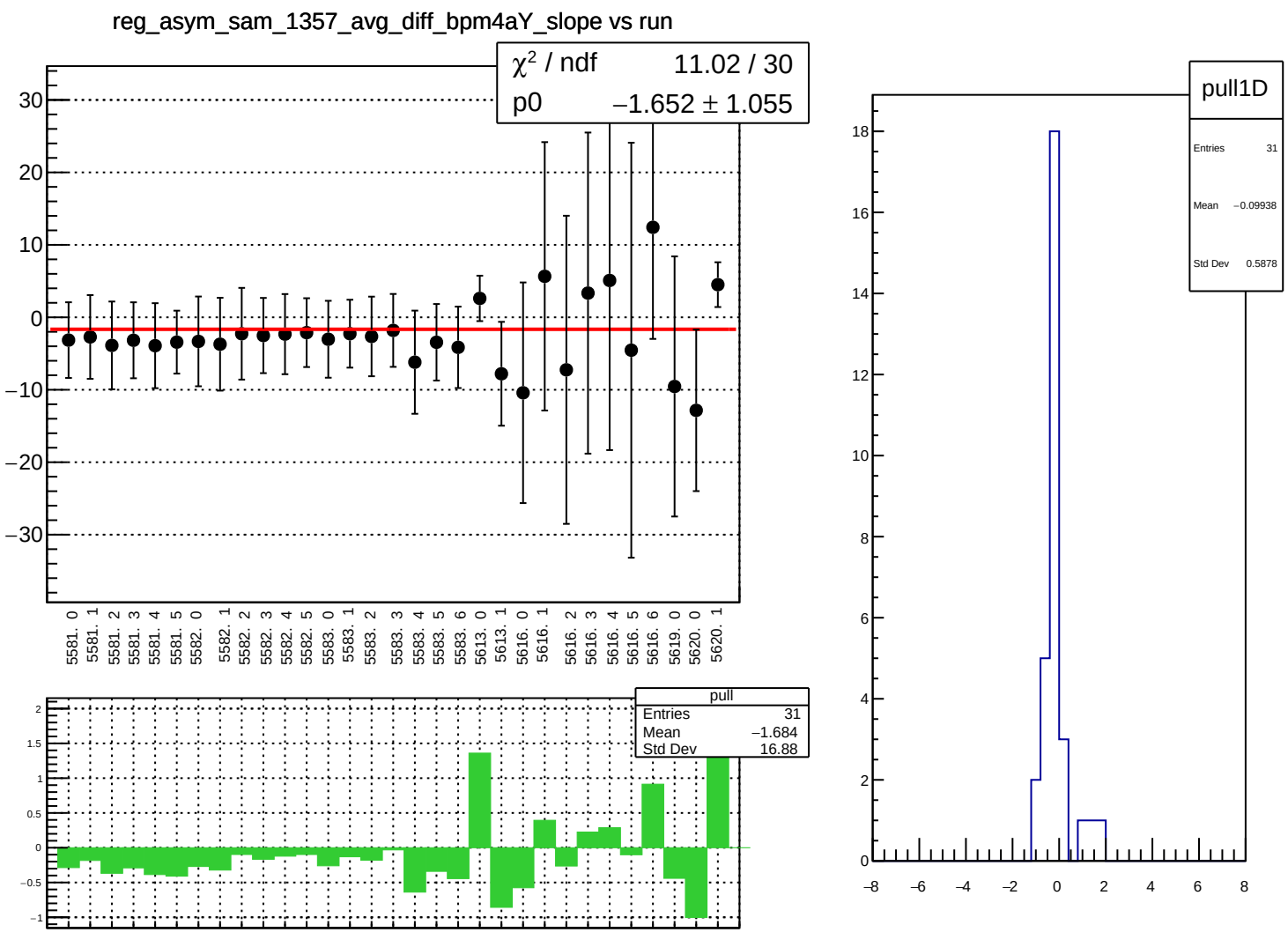

pull1D
Entries 31
Mean −1.139
Std Dev 2.147
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

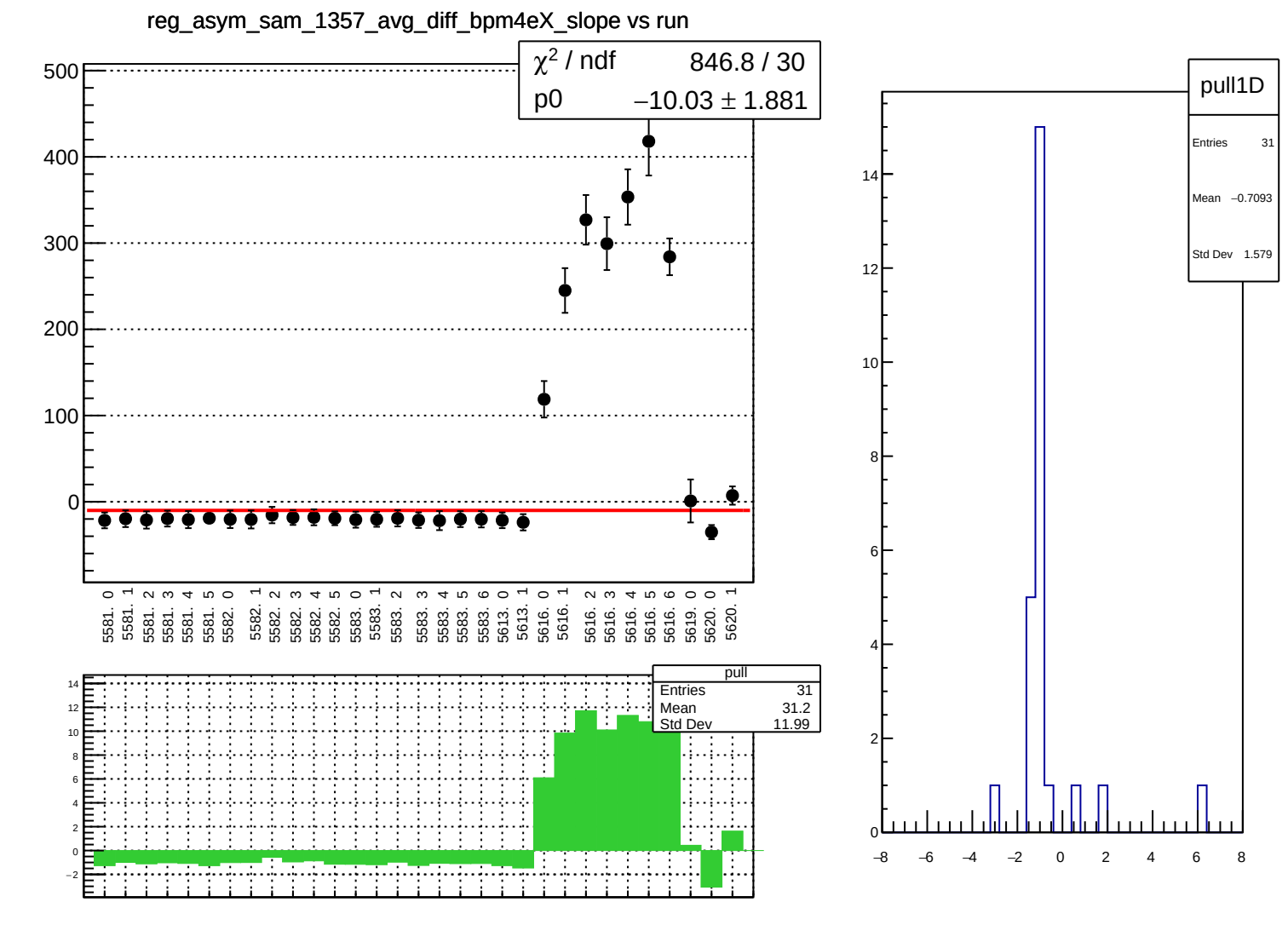

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 217.2 / 30
p0 −10.07 ± 2.679
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 47.8
Std Dev 30.35
6
4
2
0
−2
−4
pull1D
Entries 31
Mean 0.305
Std Dev 2.63
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

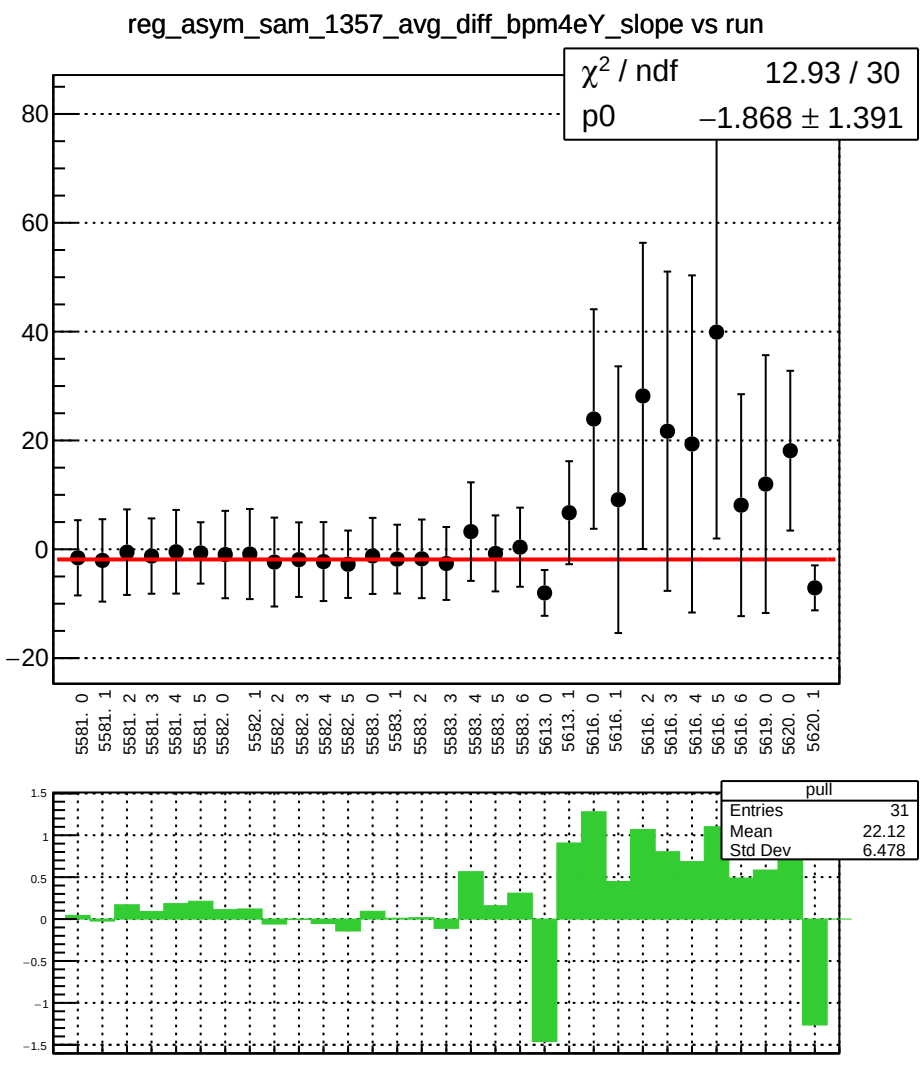

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 293.1 / 30
p0 −54.7 ± 2.059
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.01
Std Dev 1.894
4
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean 1.156
Std Dev 2.468
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

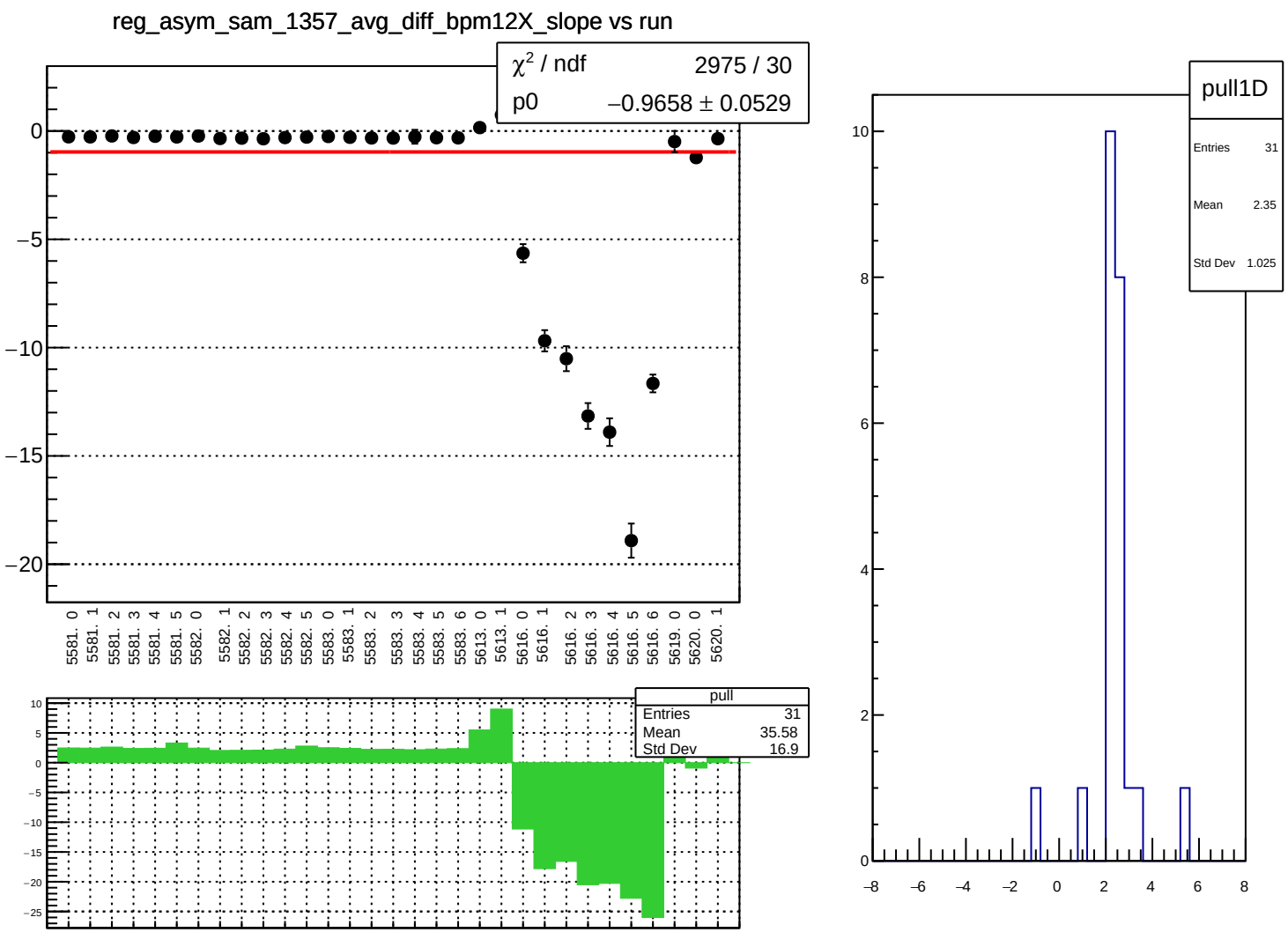

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 910.1 / 30
p0 −0.6738 ± 0.07184
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −189.7
Std Dev 206.1
5
0
−5
−10
−15
pull1D
Entries 31
Mean 1.911
Std Dev 2.913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

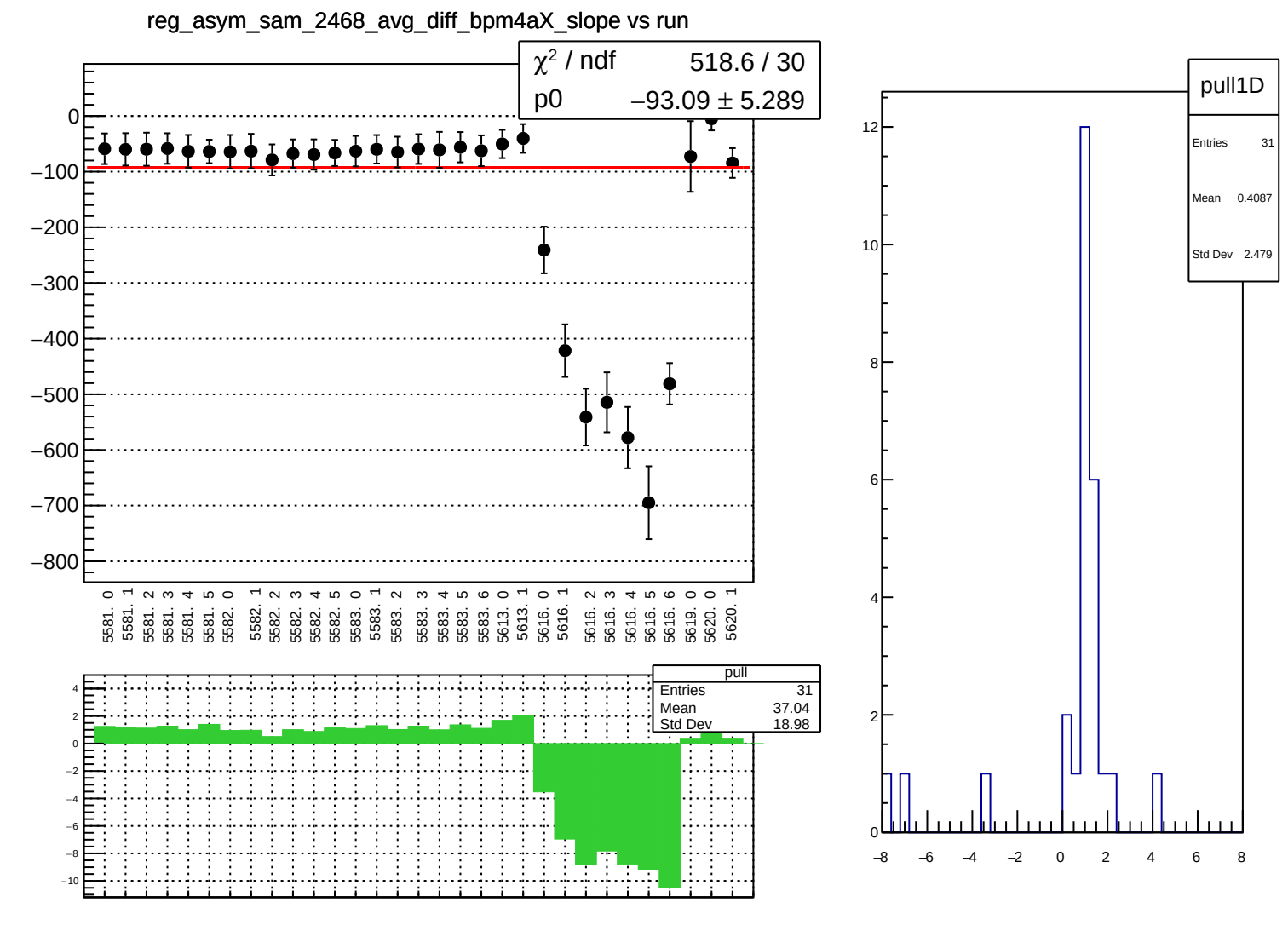

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 948.4 / 30
p0 −31.13 ± 1.945
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 31.46
Std Dev 12.35
4
2
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 31
Mean 0.8317
Std Dev 1.681
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

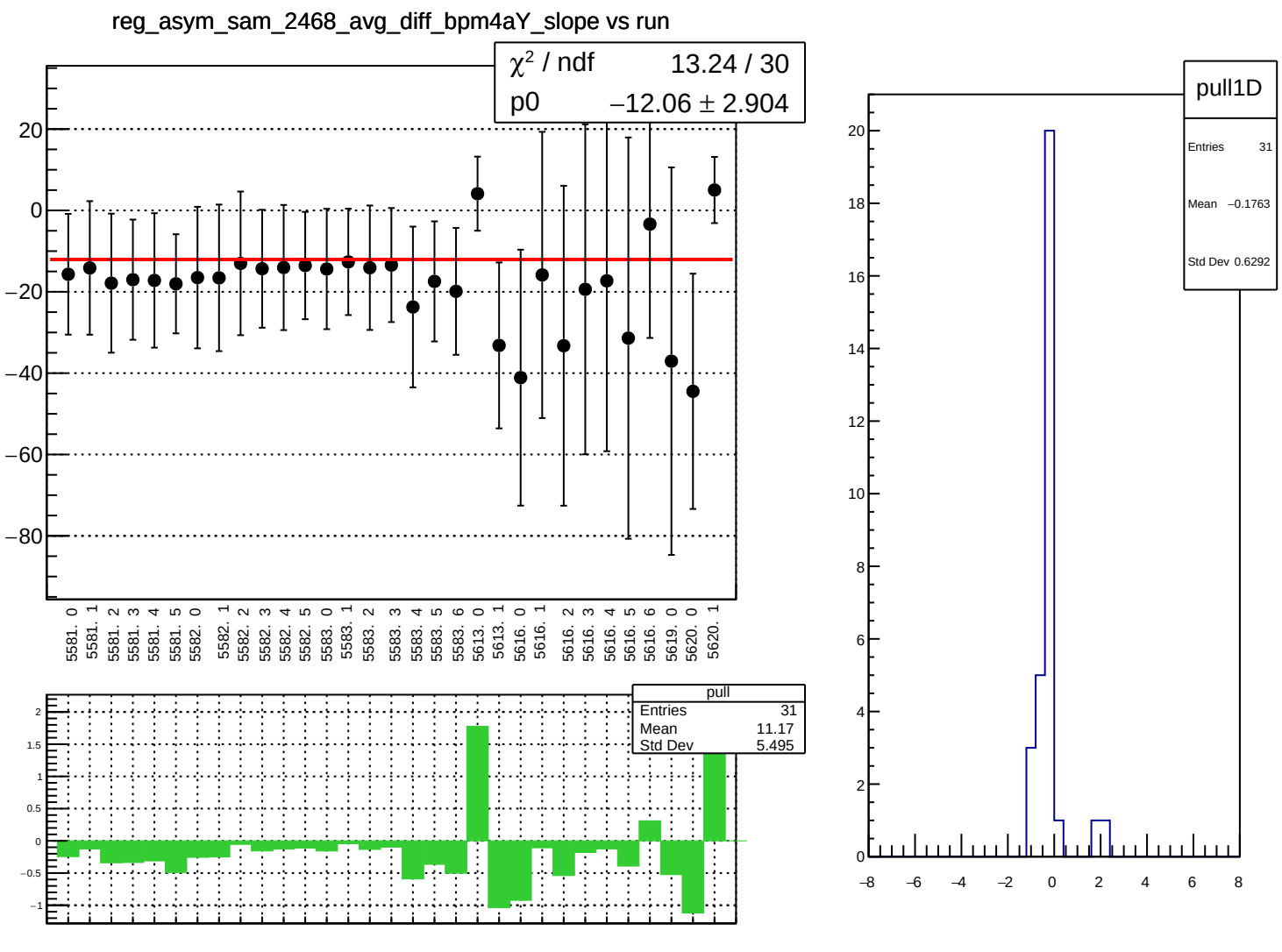

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.02 / 30
p0 −1.652 ± 1.055
pull
Entries 31
Mean −1.684
Std Dev 16.88
pull1D
Entries 31
Mean −0.09938
Std Dev 0.5878

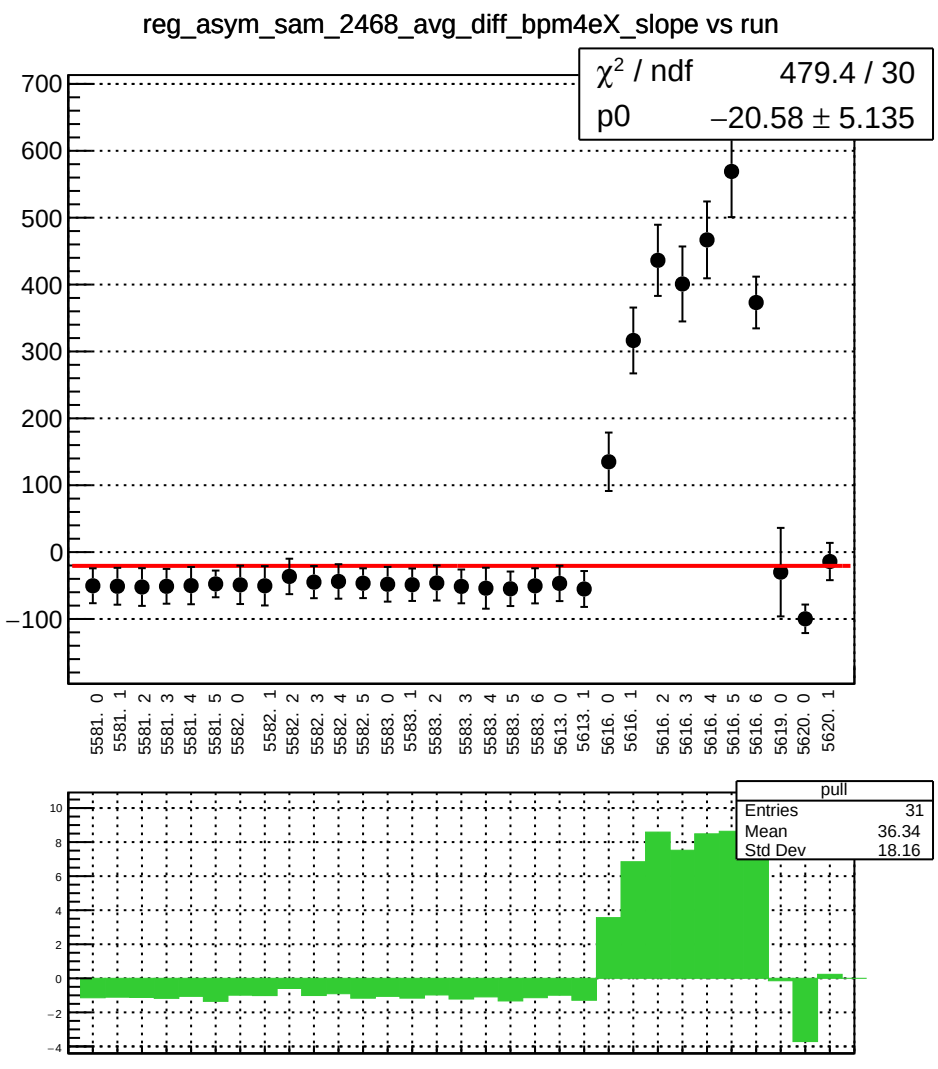

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 846.8 / 30
p0 −10.03 ± 1.881
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 31.2
Std Dev 11.99
14
12
10
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.7093
Std Dev 1.579
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

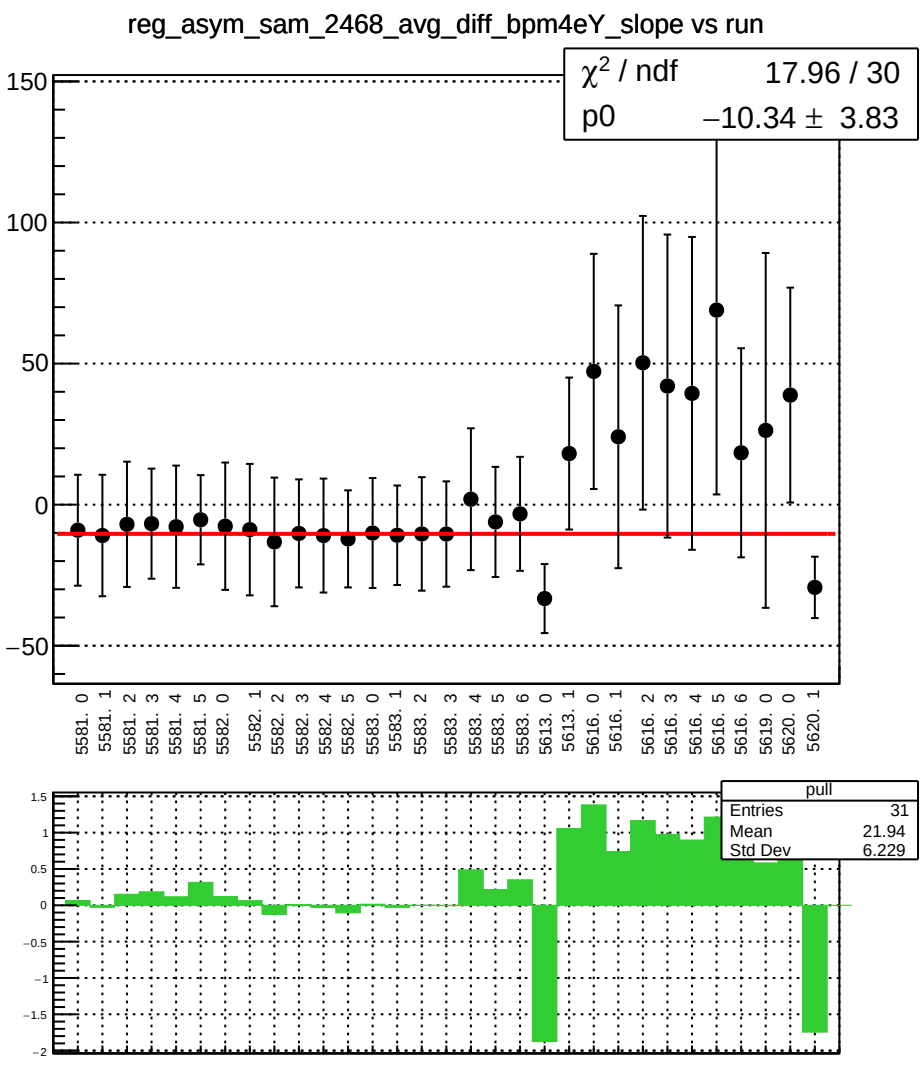

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.93 / 30
p0 −1.868 ± 1.391
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 22.12
Std Dev 6.478
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.2481
Std Dev 0.5963
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

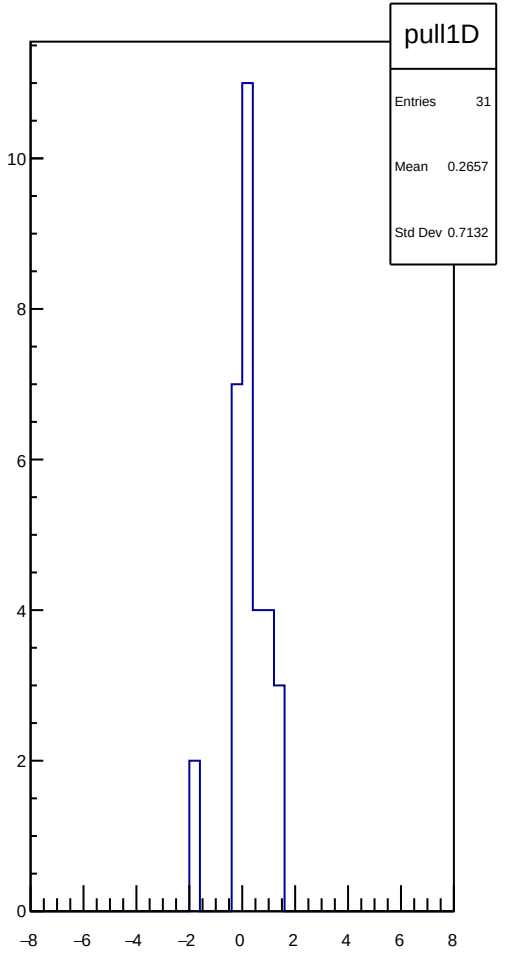

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2975 / 30
p0 −0.9658 ± 0.0529
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.58
Std Dev 16.9
10
5
0
−5
−10
−15
−20
−25
pull1D
Entries 31
Mean 2.35
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

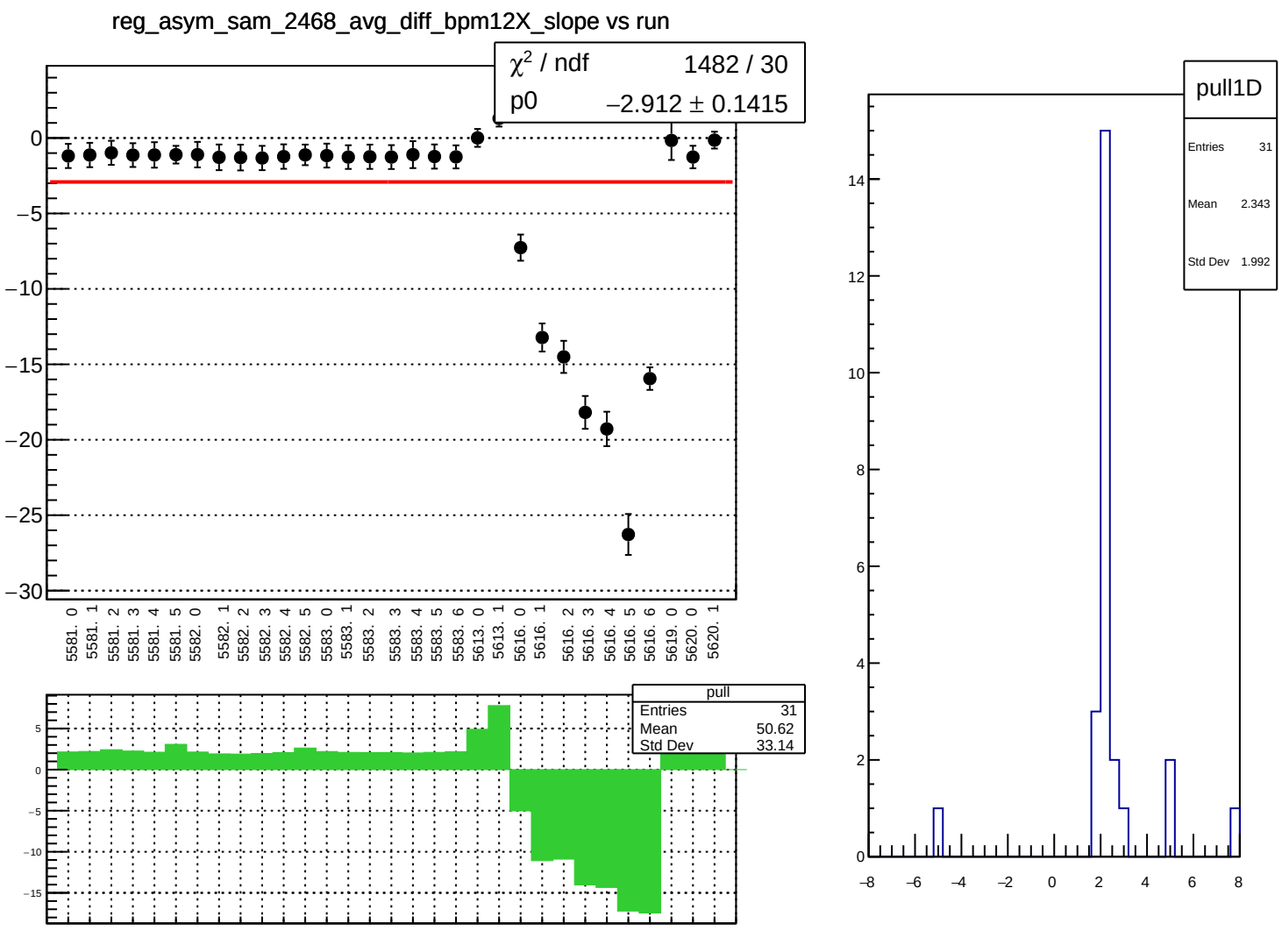

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 518.6 / 30
p0 −93.09 ± 5.289
0
−100
−200
−300
−400
−500
−600
−700
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.04
Std Dev 18.98
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 31
Mean 0.4087
Std Dev 2.479
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

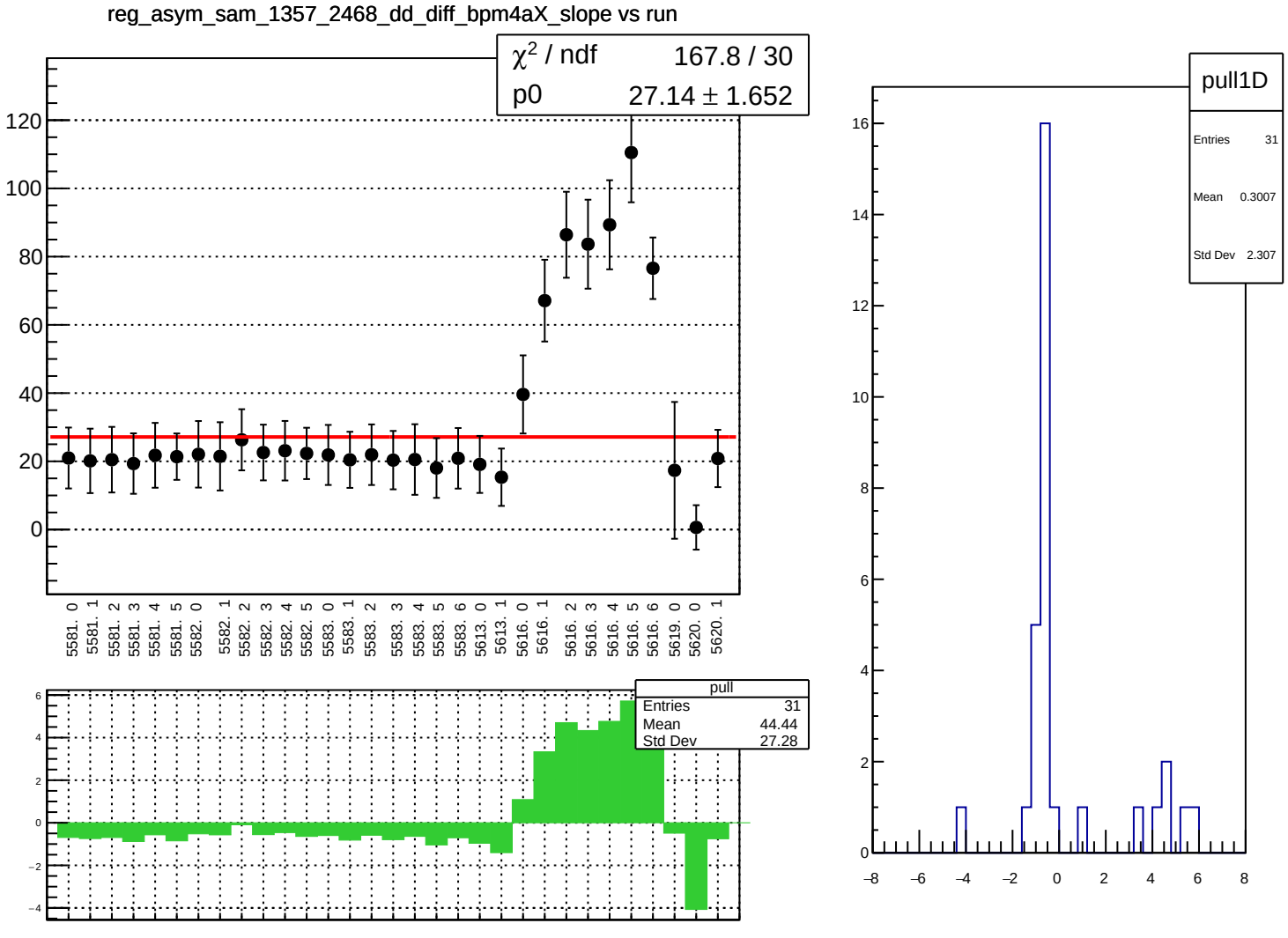

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.24 / 30
p0 −12.06 ± 2.904
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 11.17
Std Dev 5.495
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.1763
Std Dev 0.6292
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

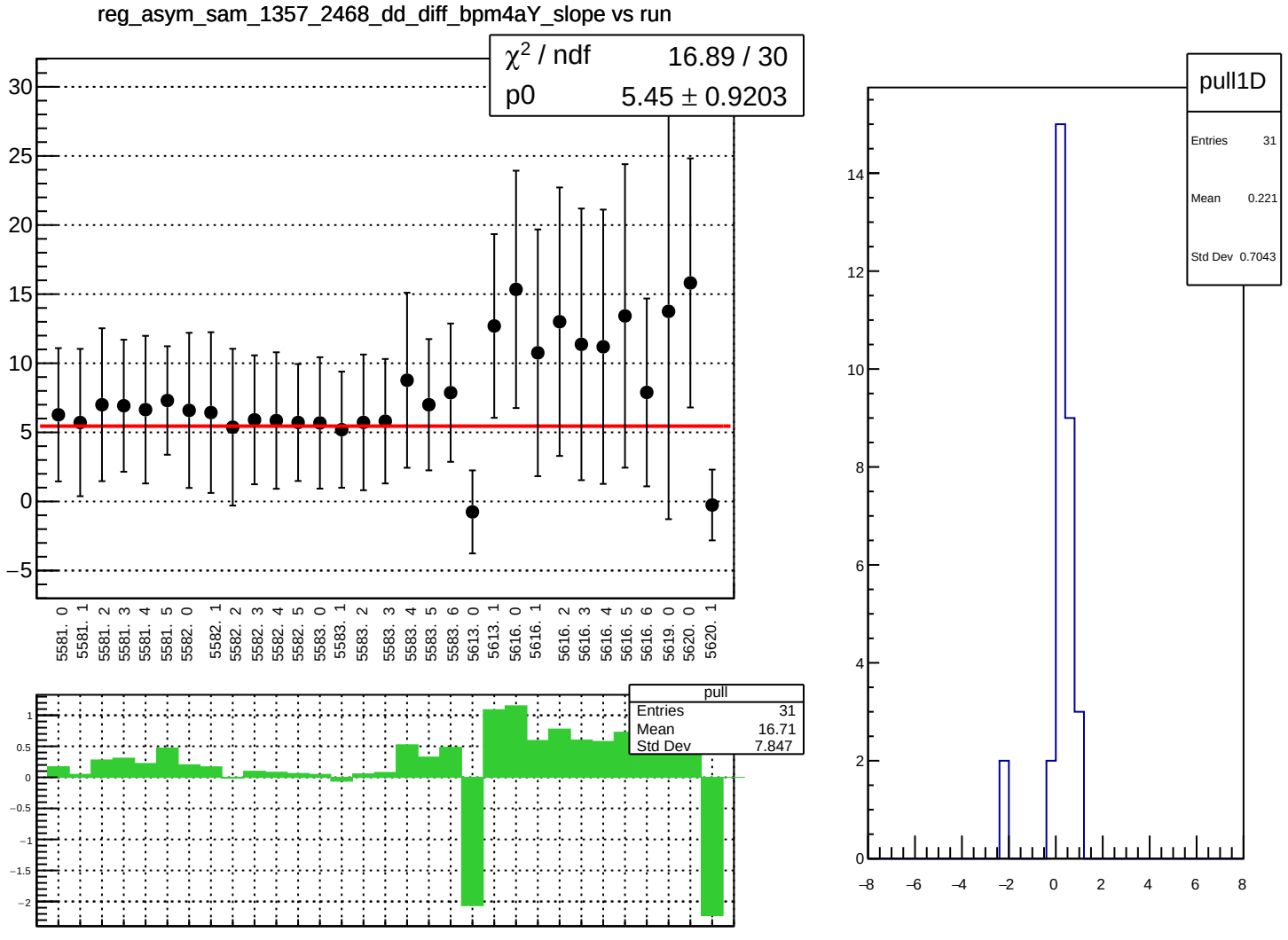

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 479.4 / 30
p0 −20.58 ± 5.135
700
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 36.34
Std Dev 18.16
10
8
6
4
2
0
−2
−4
pull1D
Entries 31
Mean −0.3177
Std Dev 2.379
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

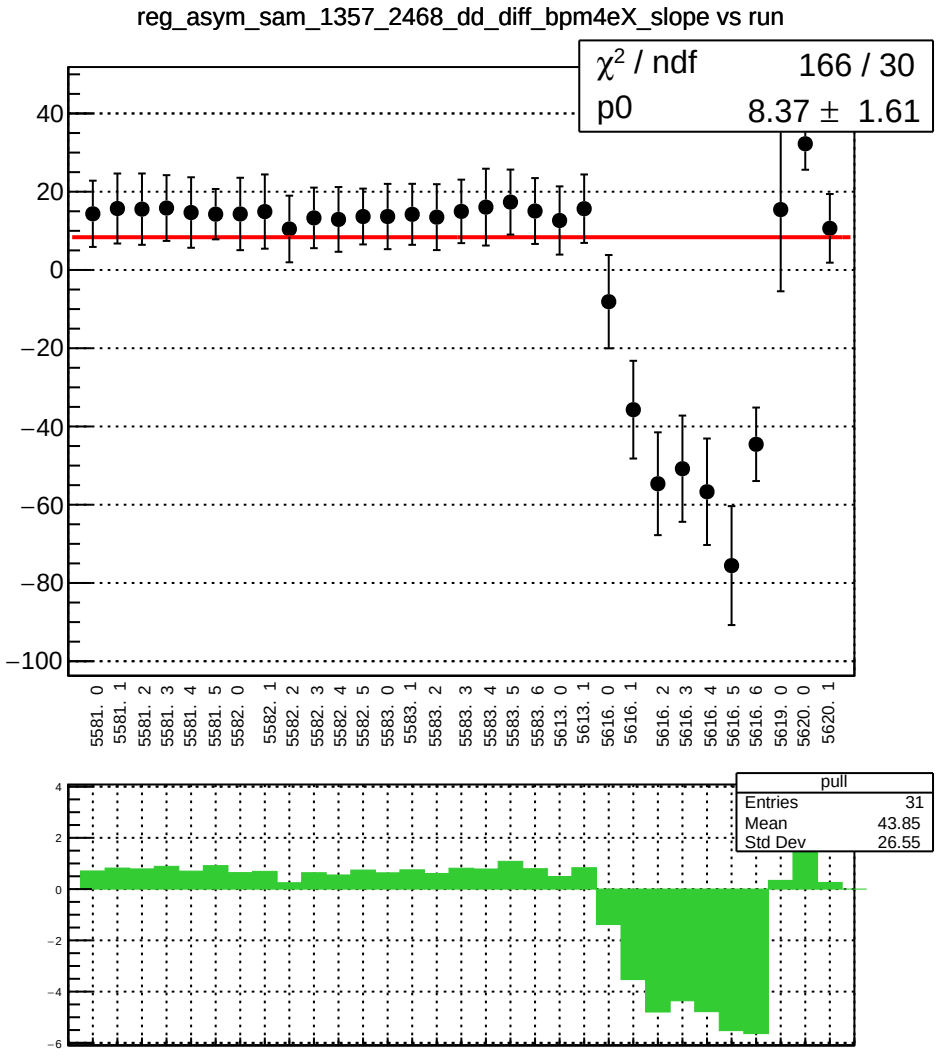

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.96 / 30
p0 −10.34 ± 3.83
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 21.94
Std Dev 6.229
1.5
1
0.5
0
−0.5
−1
−1.5
−2

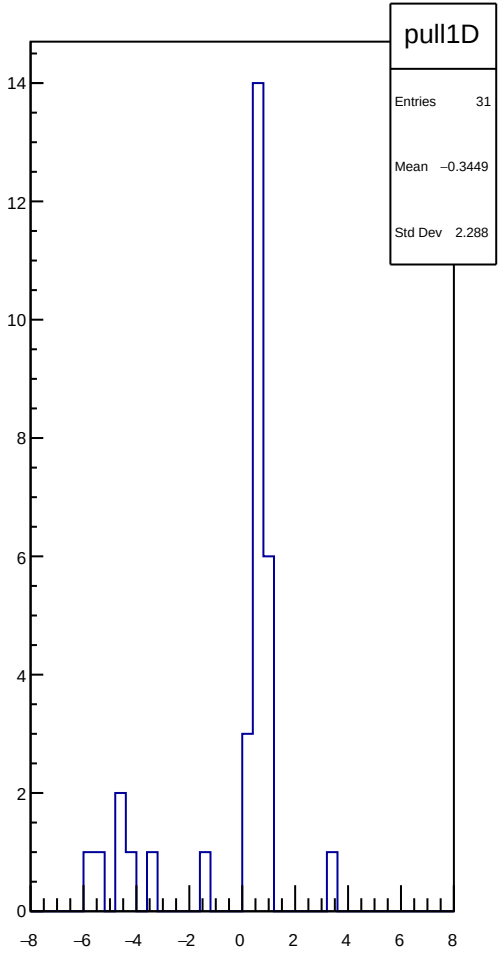

pull1D
Entries 31
Mean 0.2657
Std Dev 0.7132
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

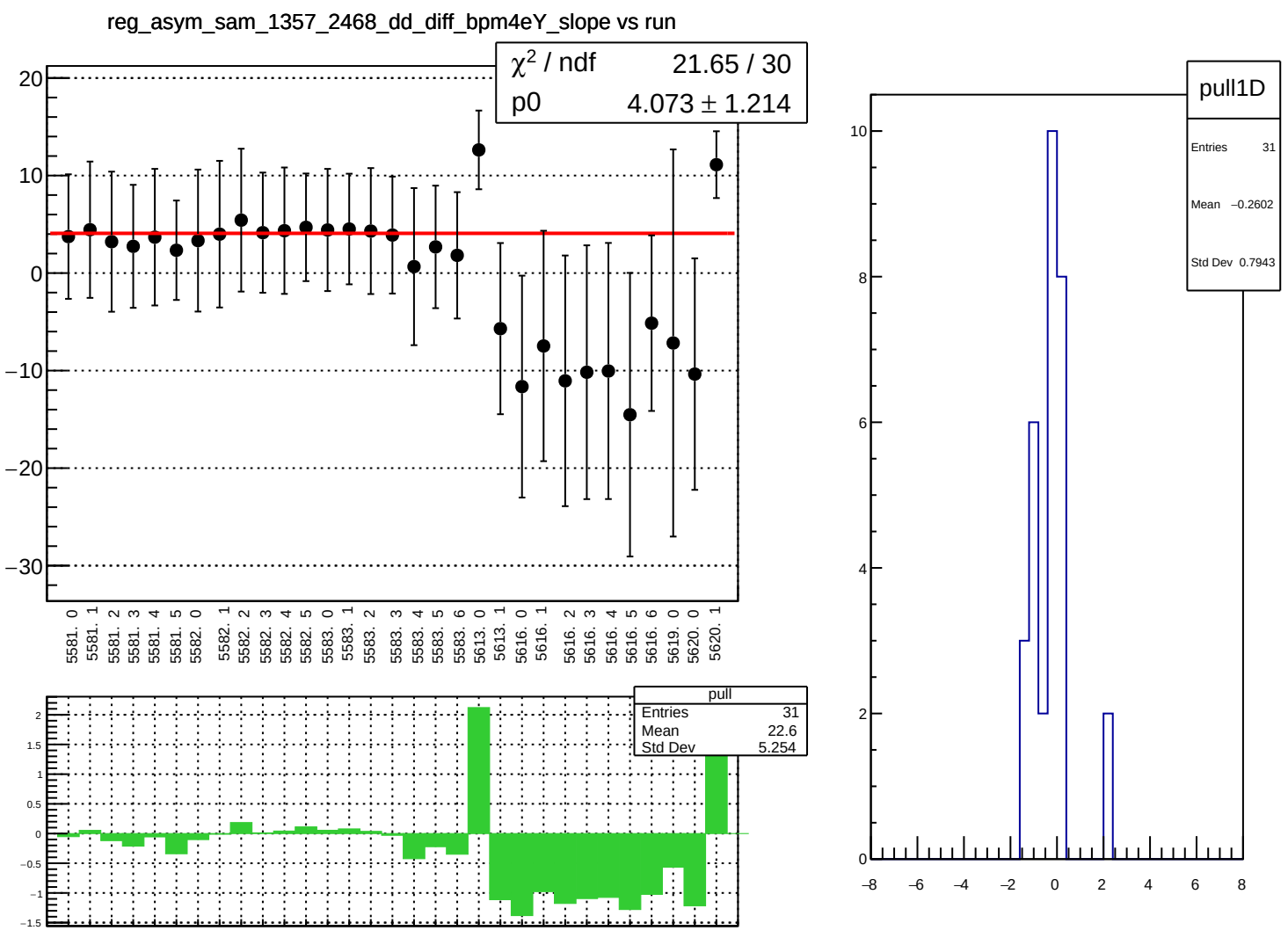

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1482 / 30
p0 −2.912 ± 0.1415
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 50.62
Std Dev 33.14
5
0
−5
−10
−15
pull1D
Entries 31
Mean 2.343
Std Dev 1.992
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

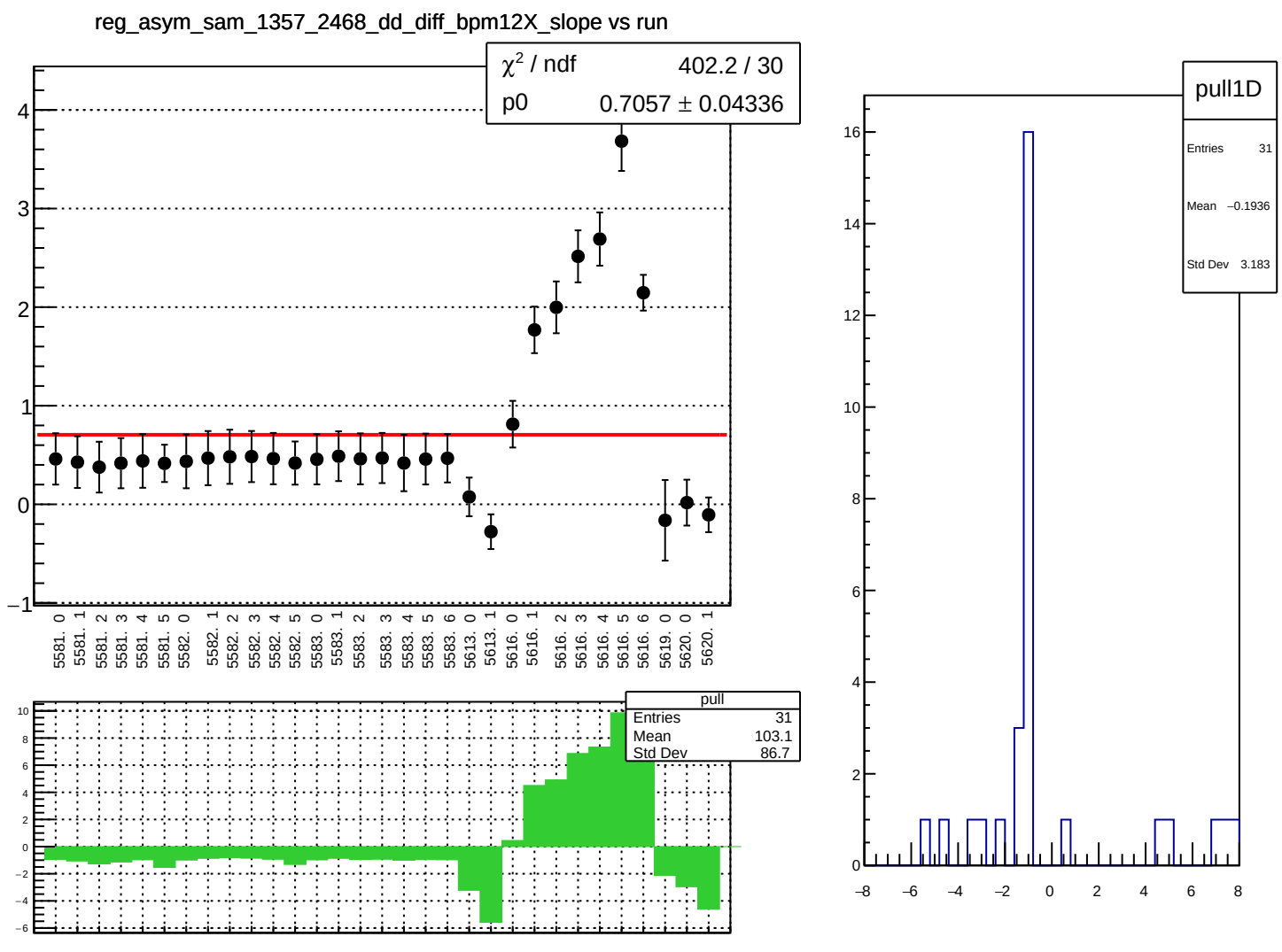

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 167.8 / 30
p0 27.14 ± 1.652
120
100
80
60
40
20
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 44.44
Std Dev 27.28
6
4
2
0
−2
−4
pull1D
Entries 31
Mean 0.3007
Std Dev 2.307
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

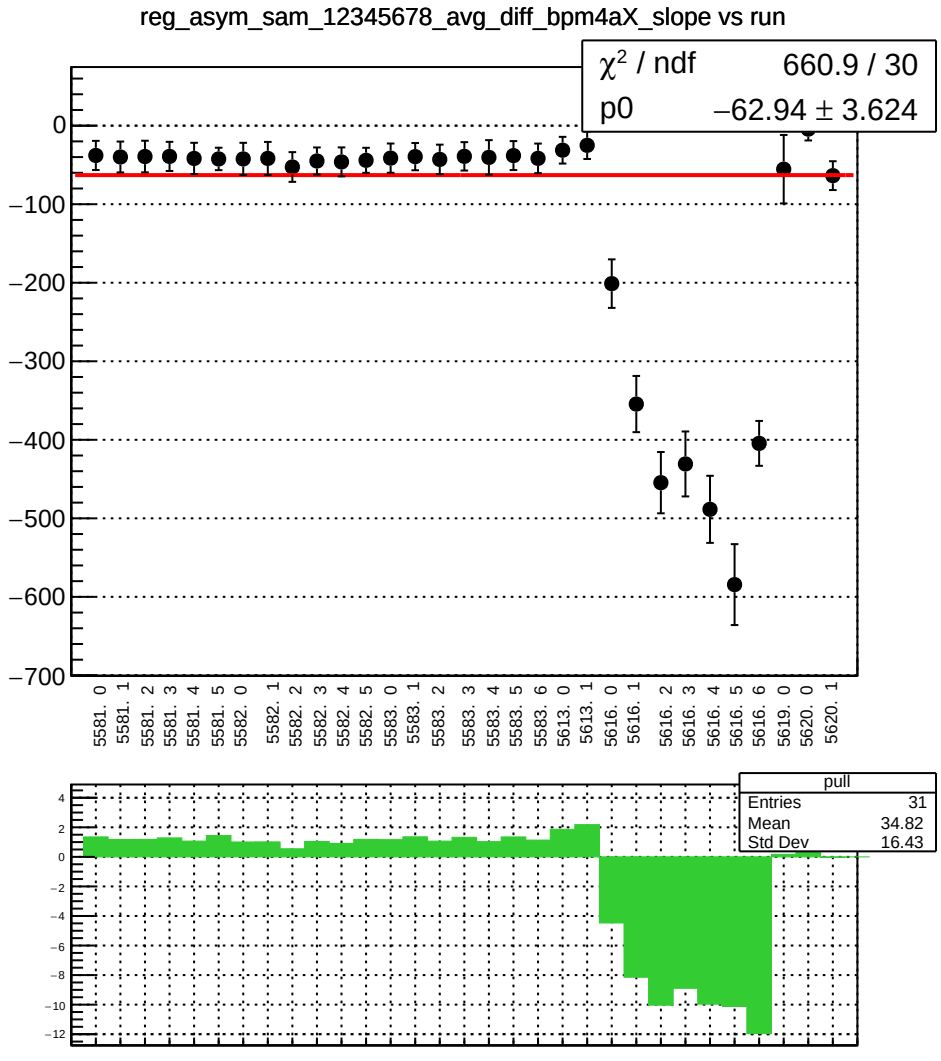

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.89 / 30
p0 5.45 ± 0.9203
30
25
20
15
10
5
0
−5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.71
Std Dev 7.847
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.221
Std Dev 0.7043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

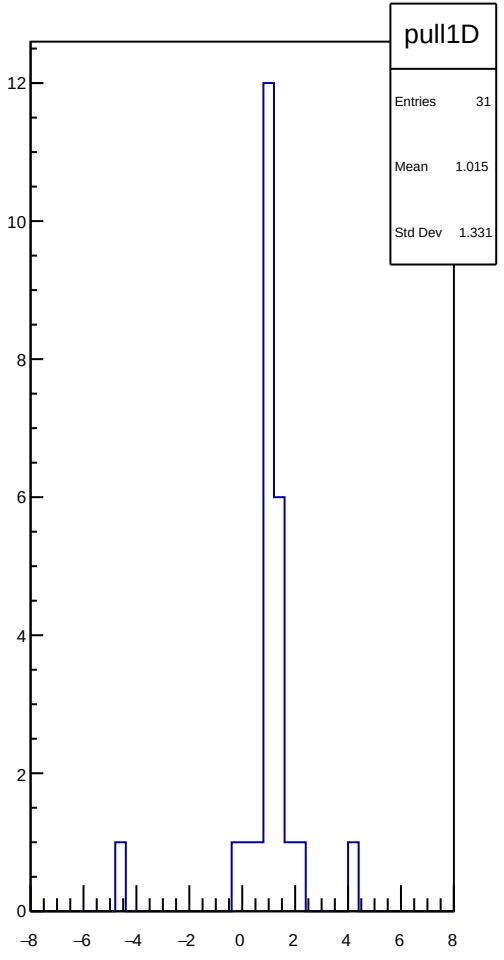

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 166 / 30
p0 8.37 ± 1.61
pull
Entries 31
Mean 43.85
Std Dev 26.55

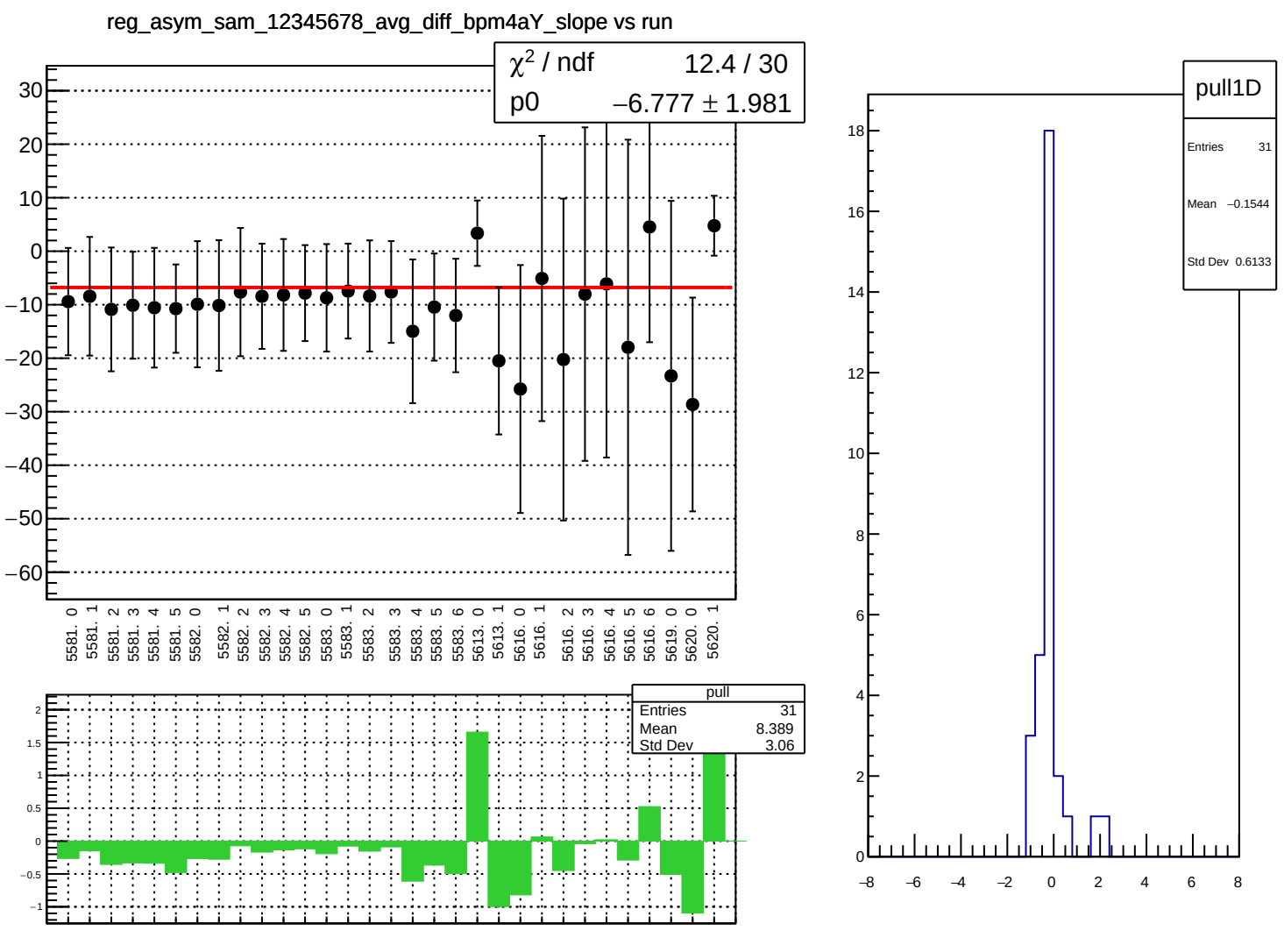

pull1D
Entries 31
Mean −0.3449
Std Dev 2.288


reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.65 / 30
p0 4.073 ± 1.214
pull
Entries 31
Mean 22.6
Std Dev 5.254
pull1D
Entries 31
Mean −0.2602
Std Dev 0.7943


reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 402.2 / 30
p0 0.7057 ± 0.04336
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 103.1
Std Dev 86.7
pull1D
Entries 31
Mean −0.1936
Std Dev 3.183


reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 660.9 / 30
p0 −62.94 ± 3.624
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.82
Std Dev 16.43
4
2
0
−2
−4
−6
−8
−10
−12


pull1D
Entries 31
Mean 1.015
Std Dev 1.331
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.4 / 30
p0 −6.777 ± 1.981
30
20
10
0
−10
−20
−30
−40
−50
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
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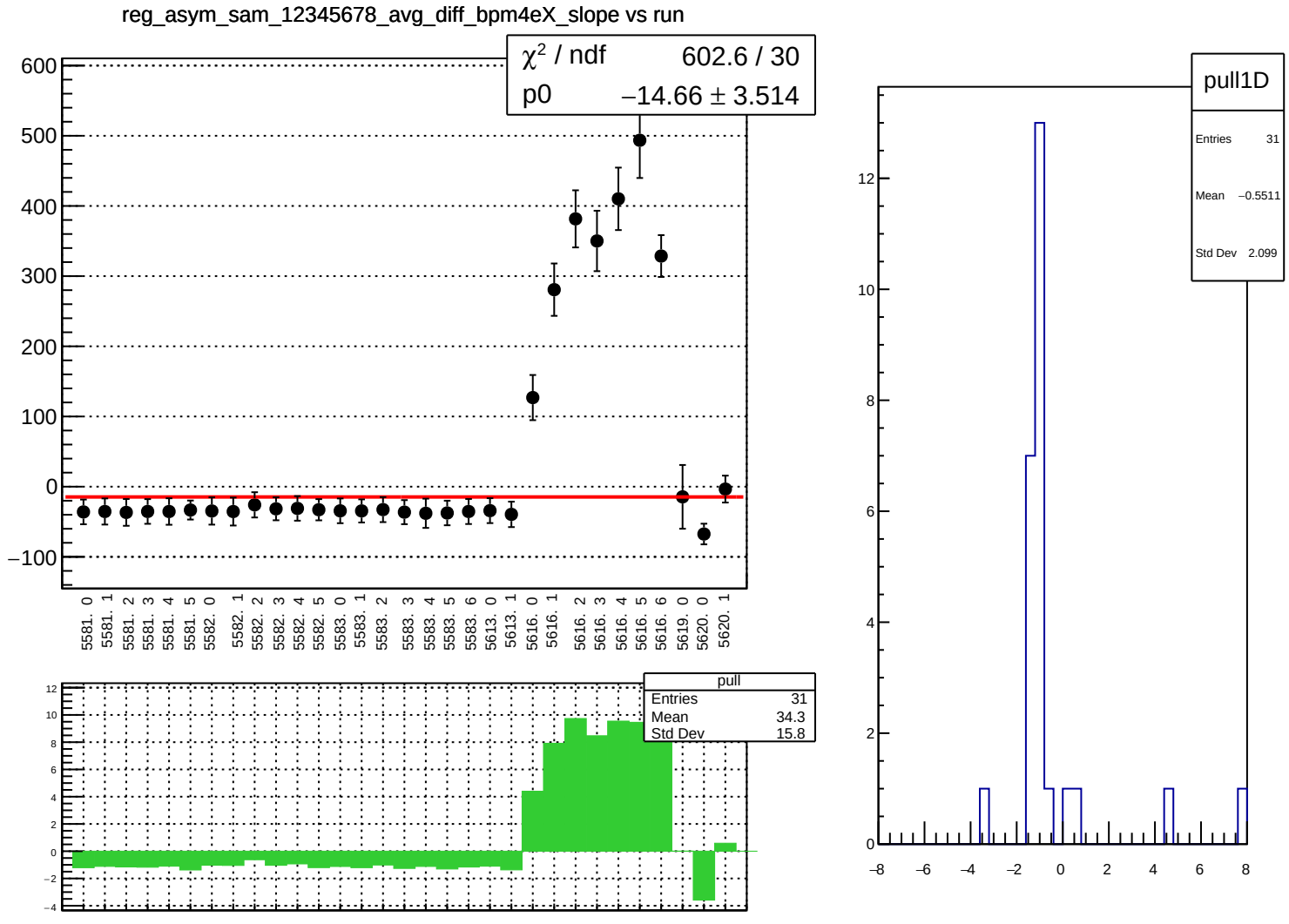
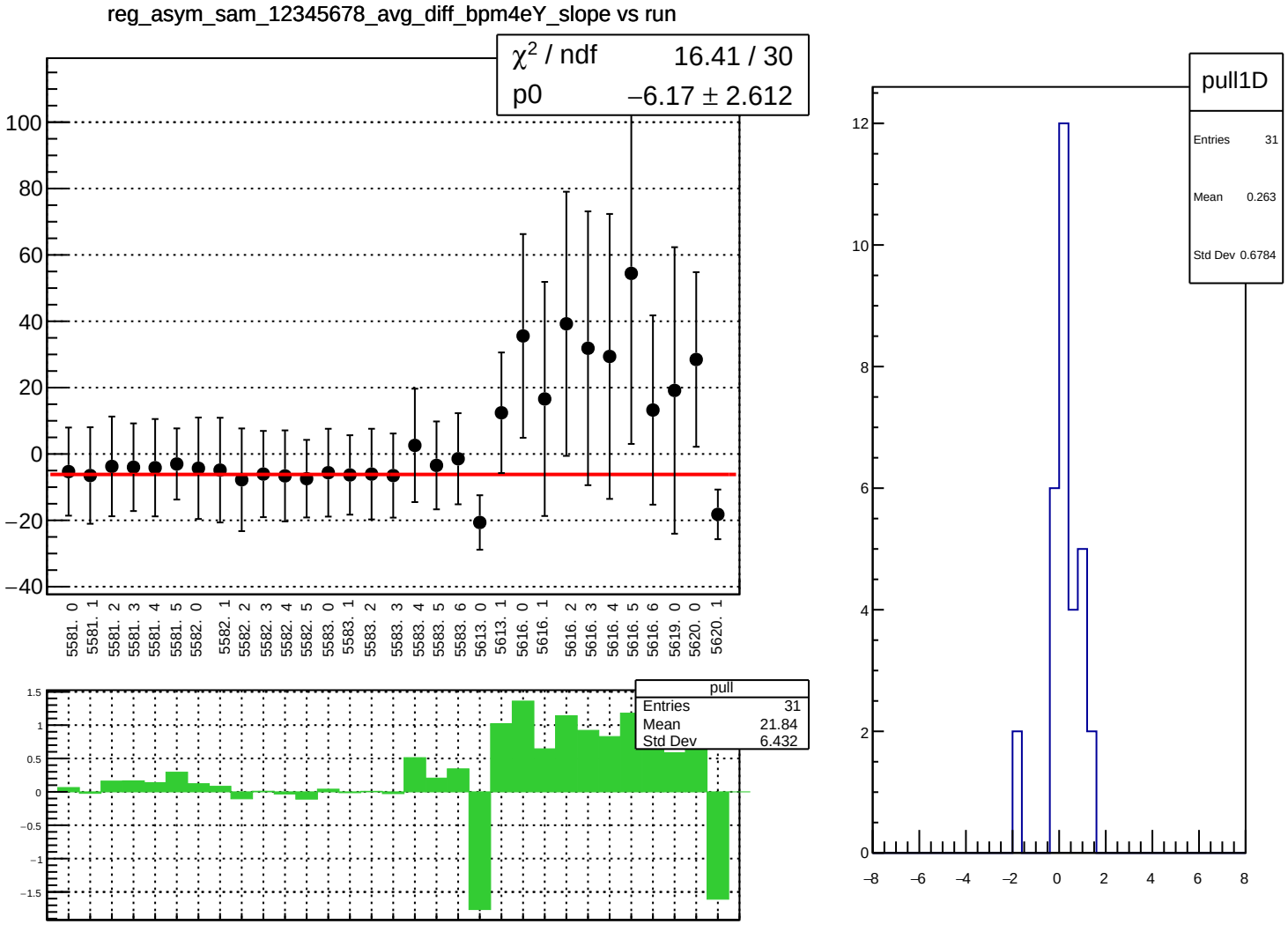
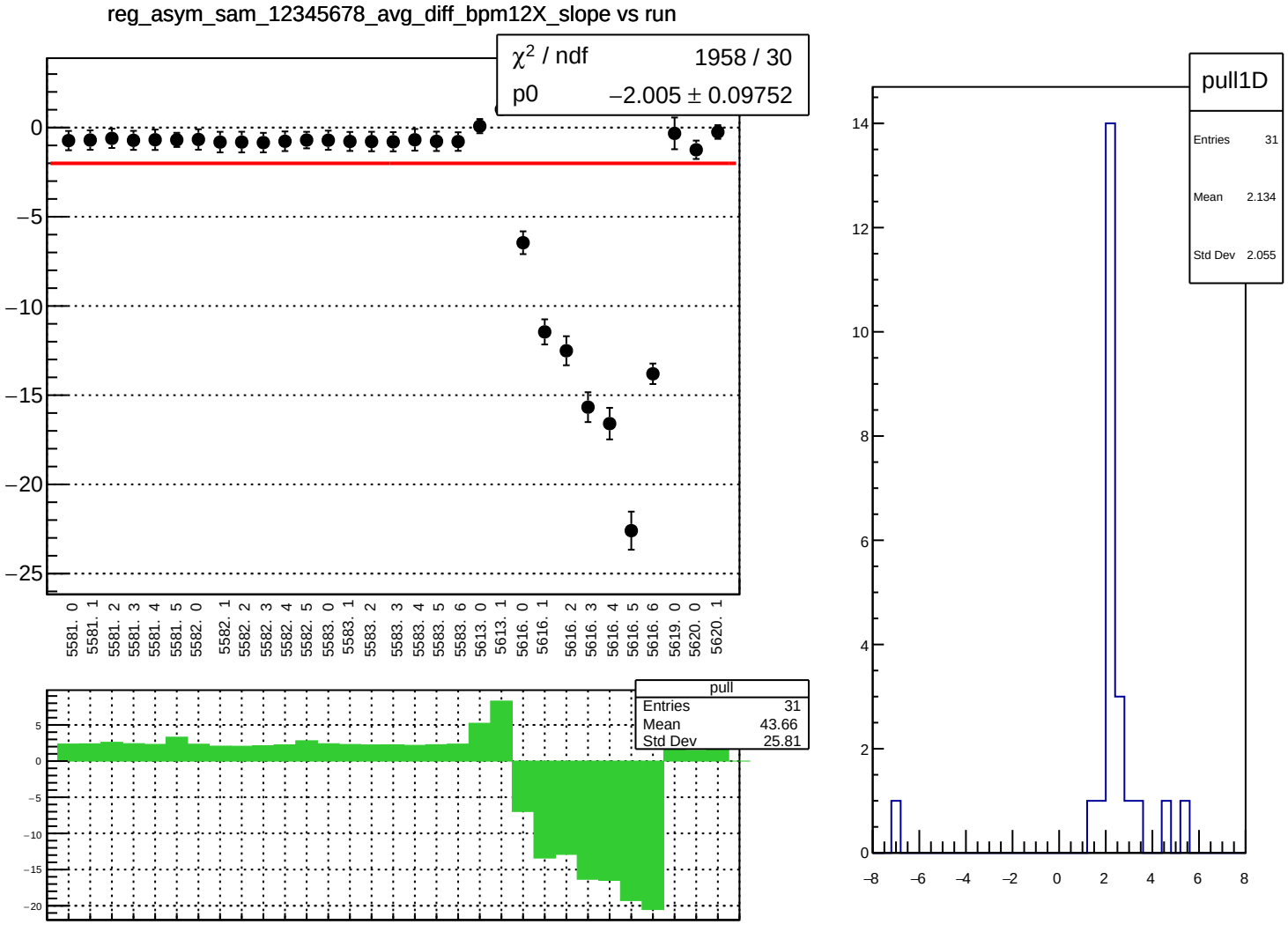
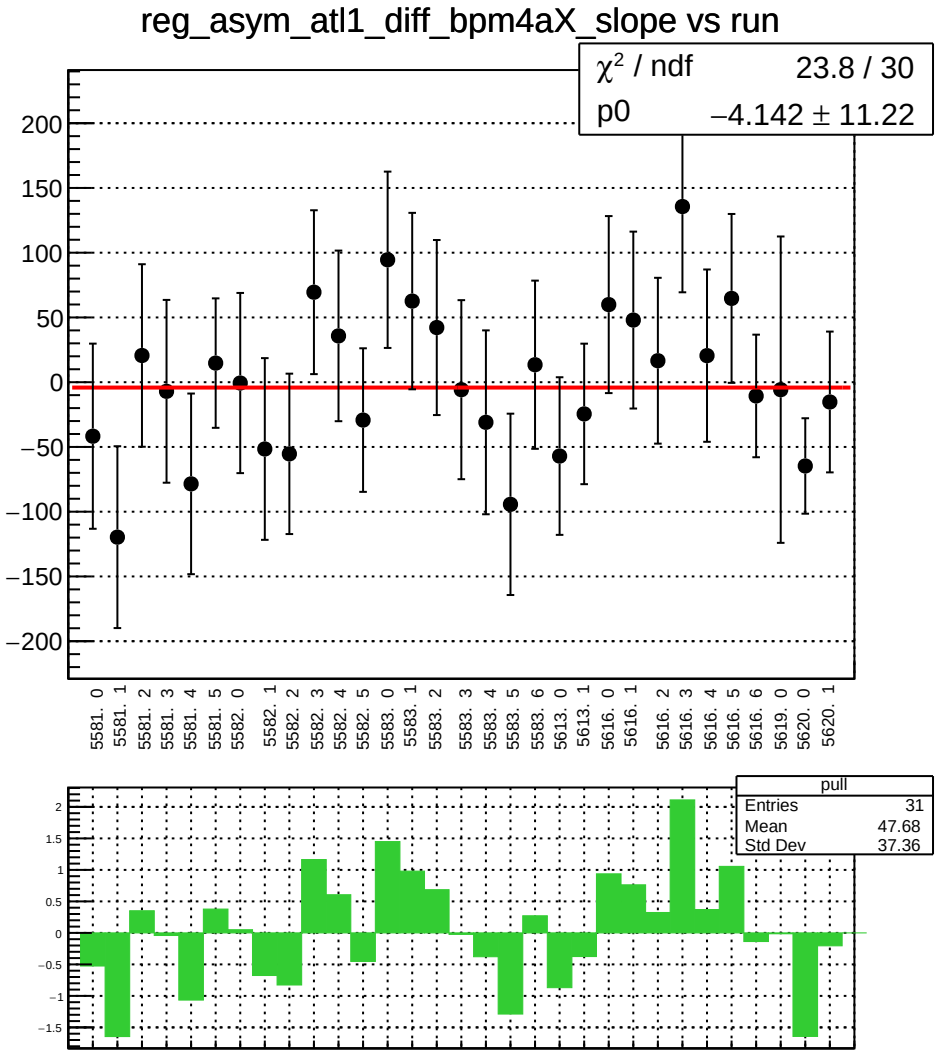
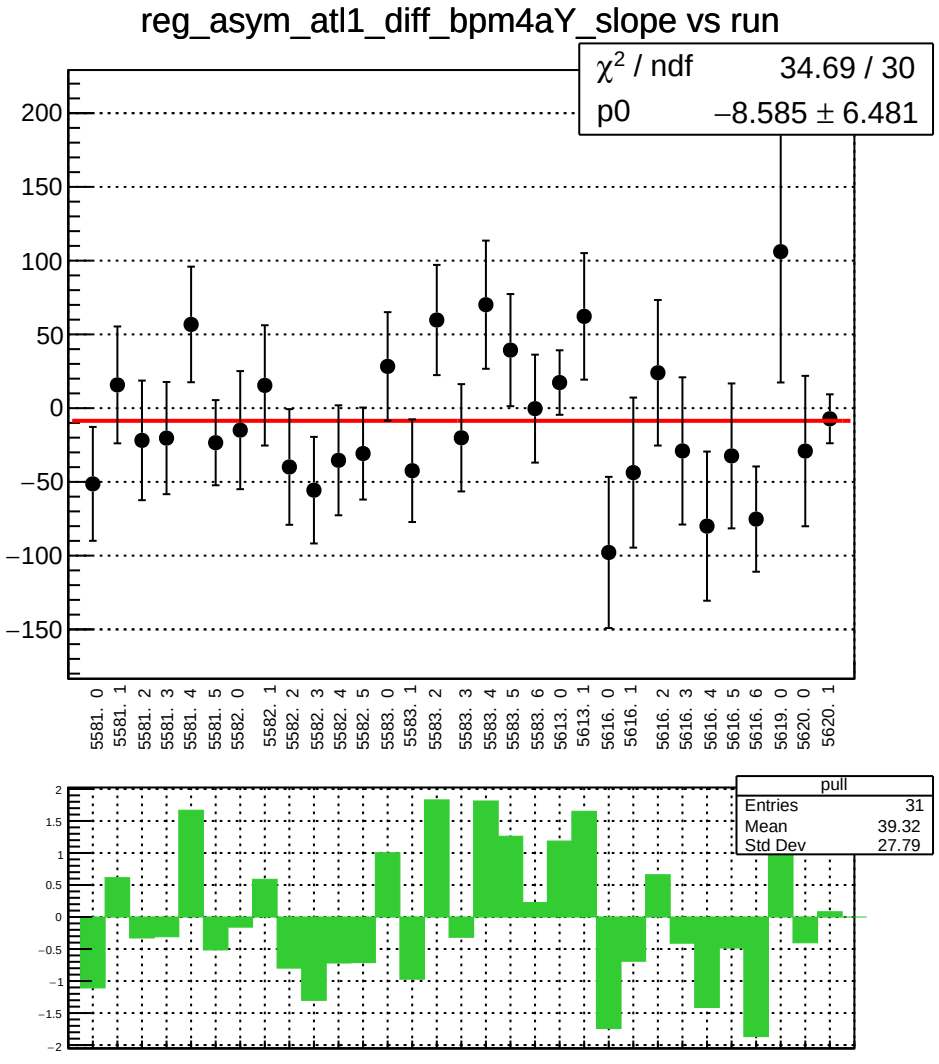
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 8.389
Std Dev 3.06
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.1544
Std Dev 0.6133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

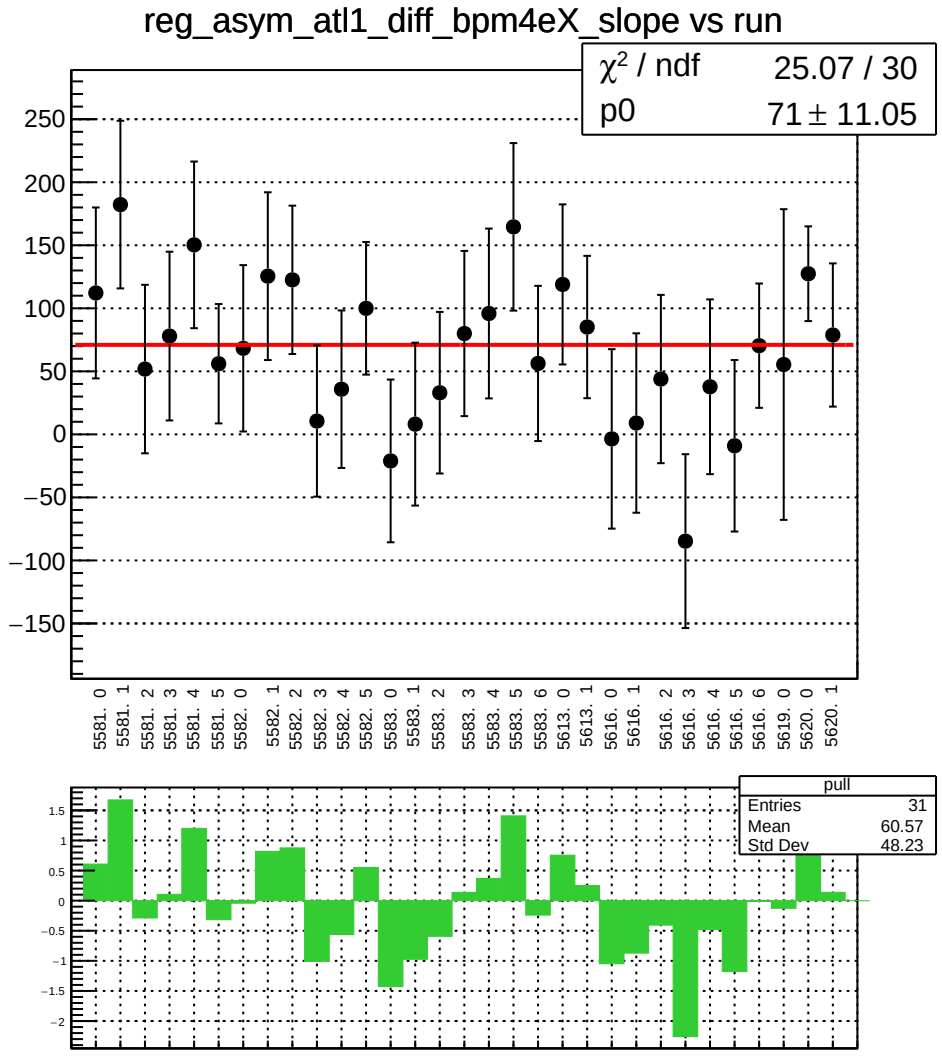

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 602.6 / 30
p0 −14.66 ± 3.514
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.3
Std Dev 15.8
12
10
8
6
4
2
0
−2
−4
pull1D
Entries 31
Mean −0.5511
Std Dev 2.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

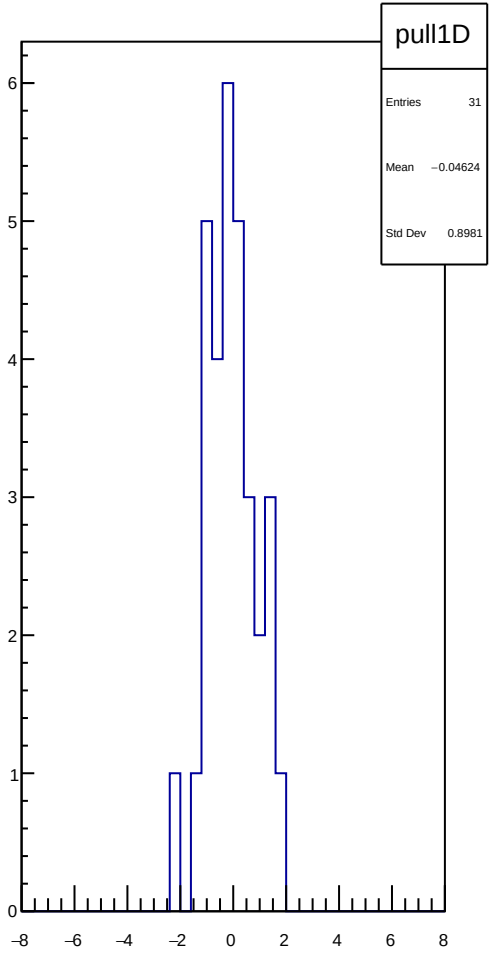

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.41 / 30
p0 −6.17 ± 2.612
100
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 21.84
Std Dev 6.432
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.263
Std Dev 0.6784
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

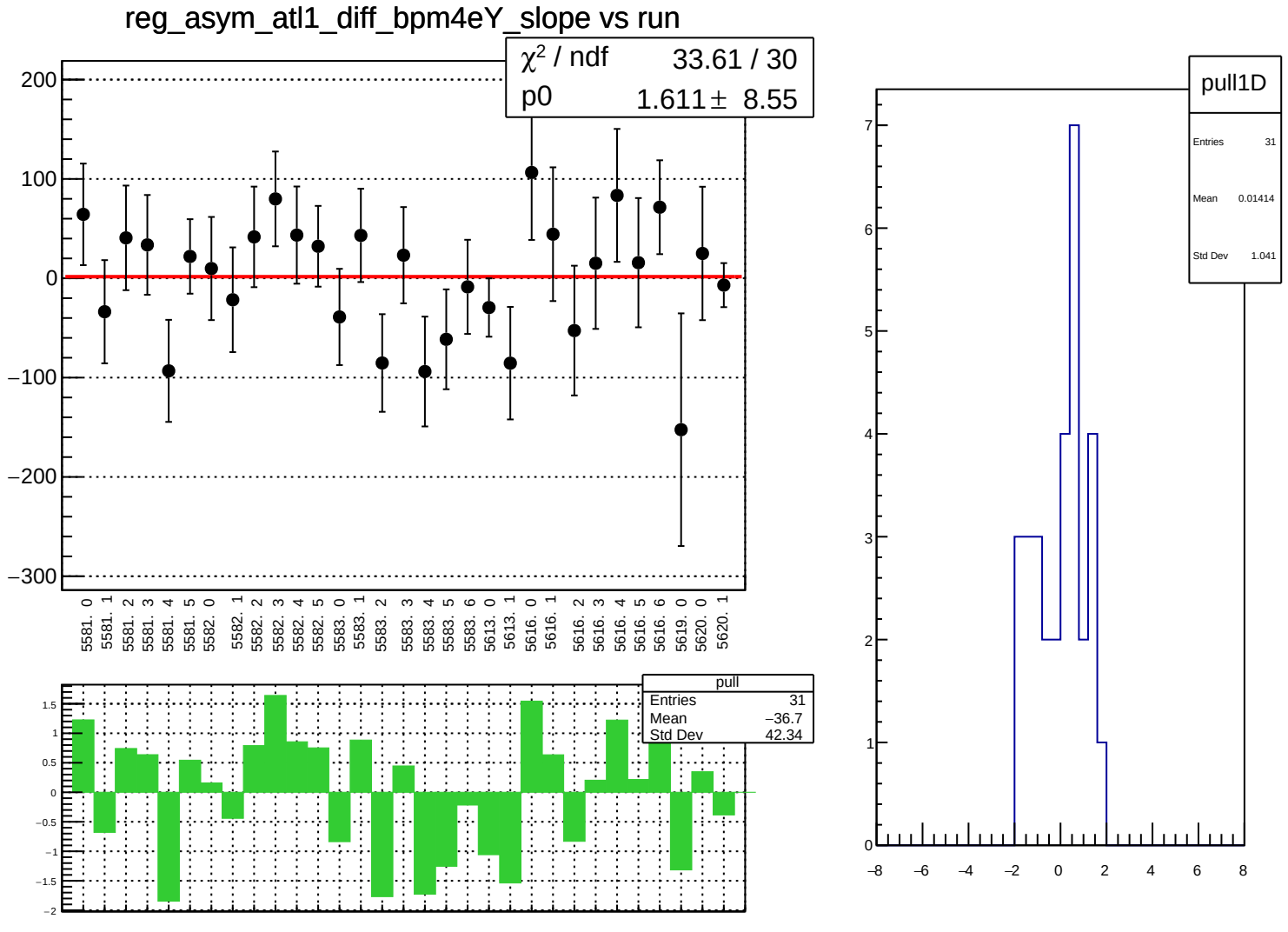

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1958 / 30
p0 −2.005 ± 0.09752
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 43.66
Std Dev 25.81
5
0
−5
−10
−15
−20
pull1D
Entries 31
Mean 2.134
Std Dev 2.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

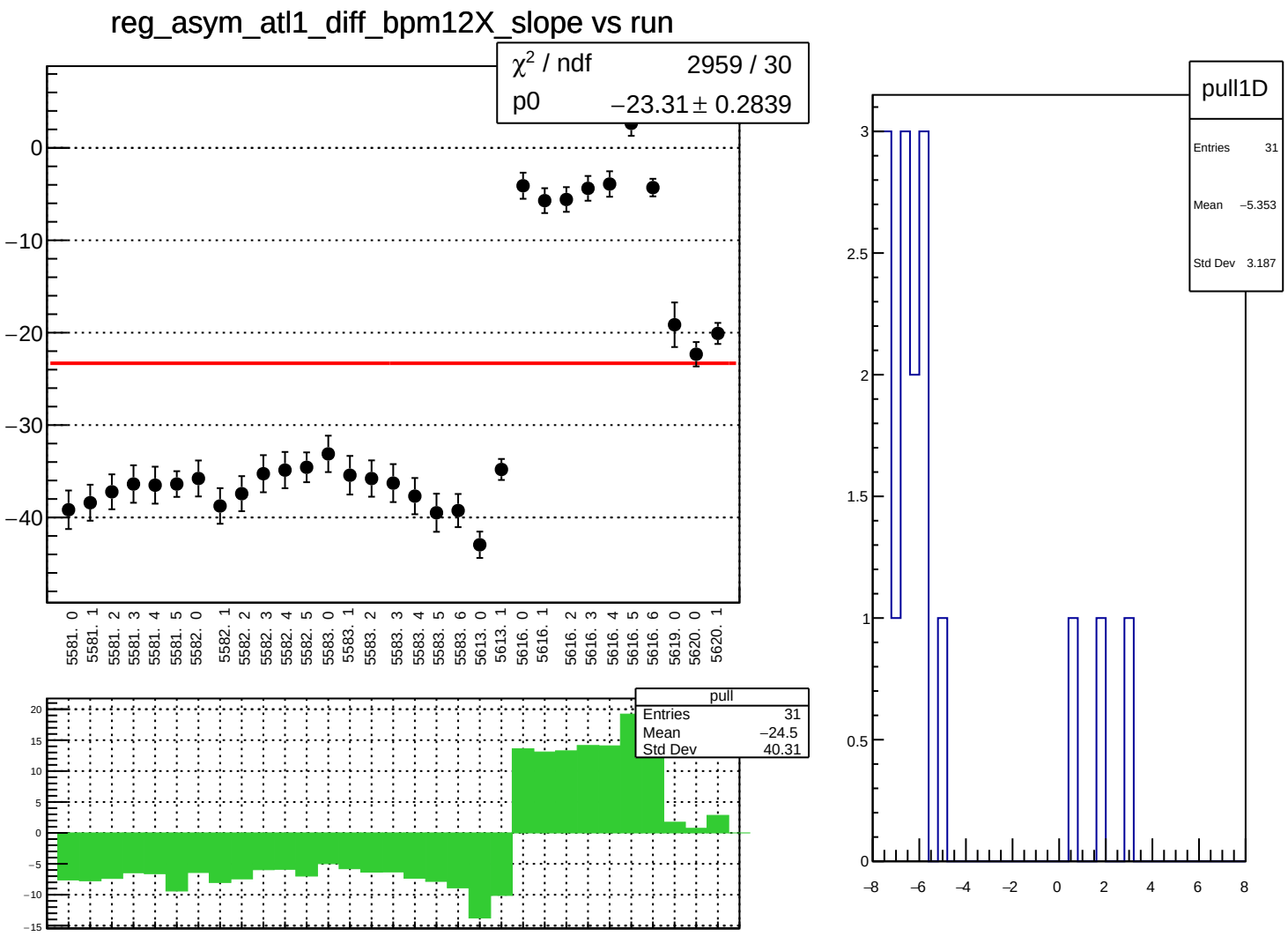

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 23.8 / 30
p0 −4.142 ± 11.22
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 47.68
Std Dev 37.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.04293
Std Dev 0.8751
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

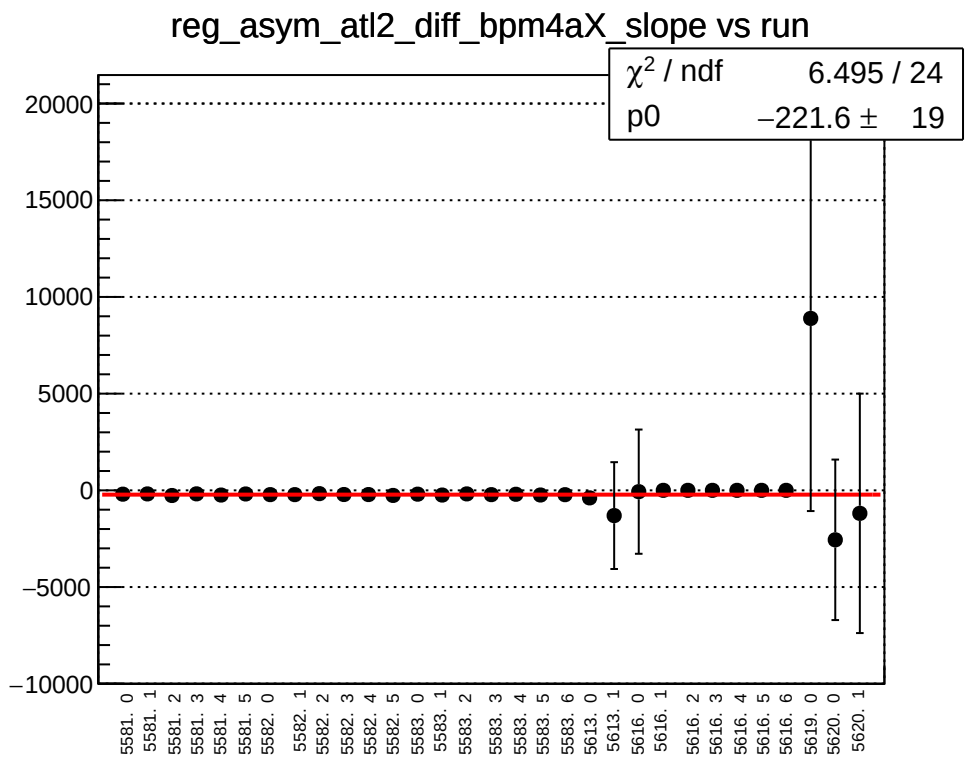

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 34.69 / 30
p0 −8.585 ± 6.481
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 39.32
Std Dev 27.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.01181
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

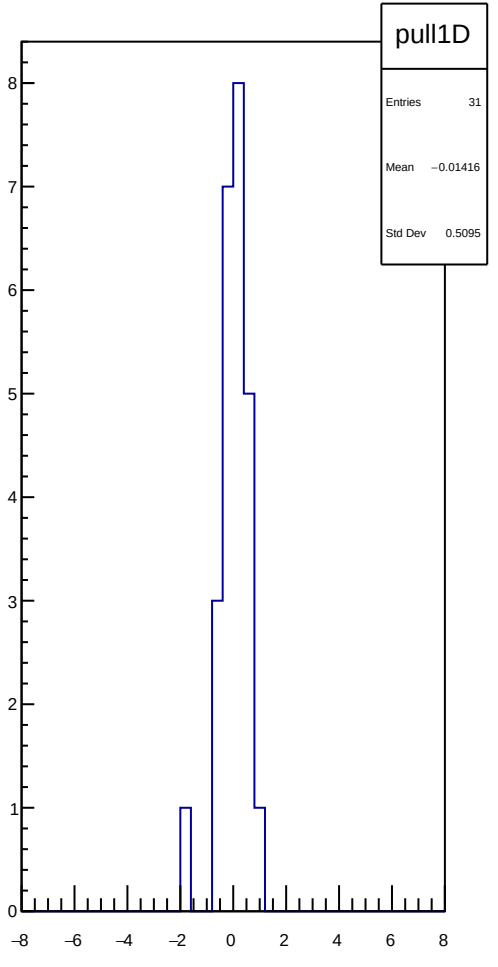

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 25.07 / 30
p0 71 ± 11.05
250
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 60.57
Std Dev 48.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2

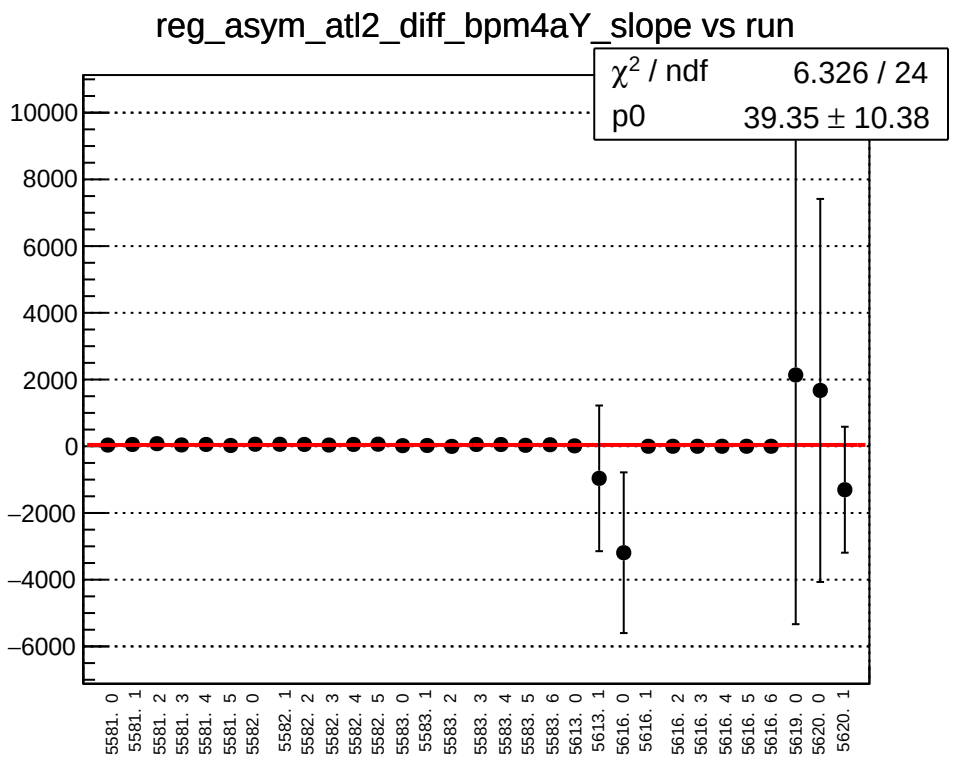

pull1D
Entries 31
Mean −0.04624
Std Dev 0.8981
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

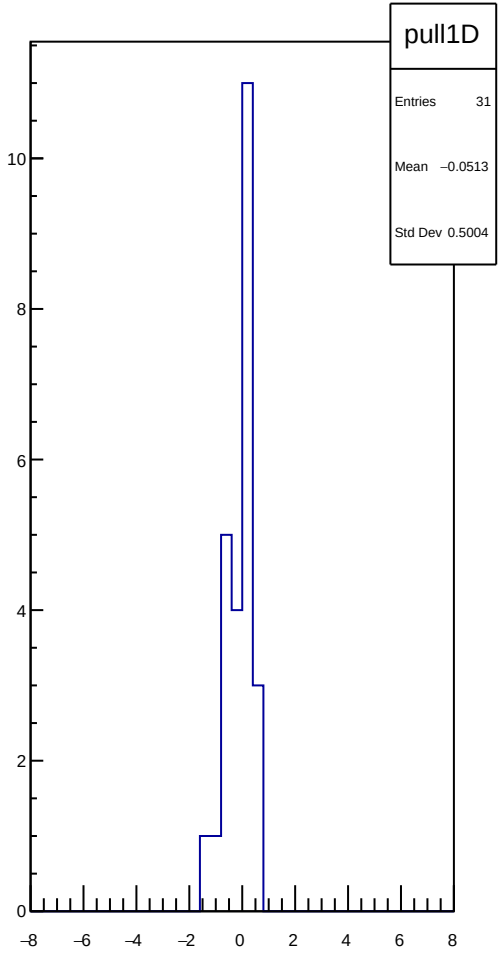

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 33.61 / 30
p0 1.611 ± 8.55
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −36.7
Std Dev 42.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.01414
Std Dev 1.041
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

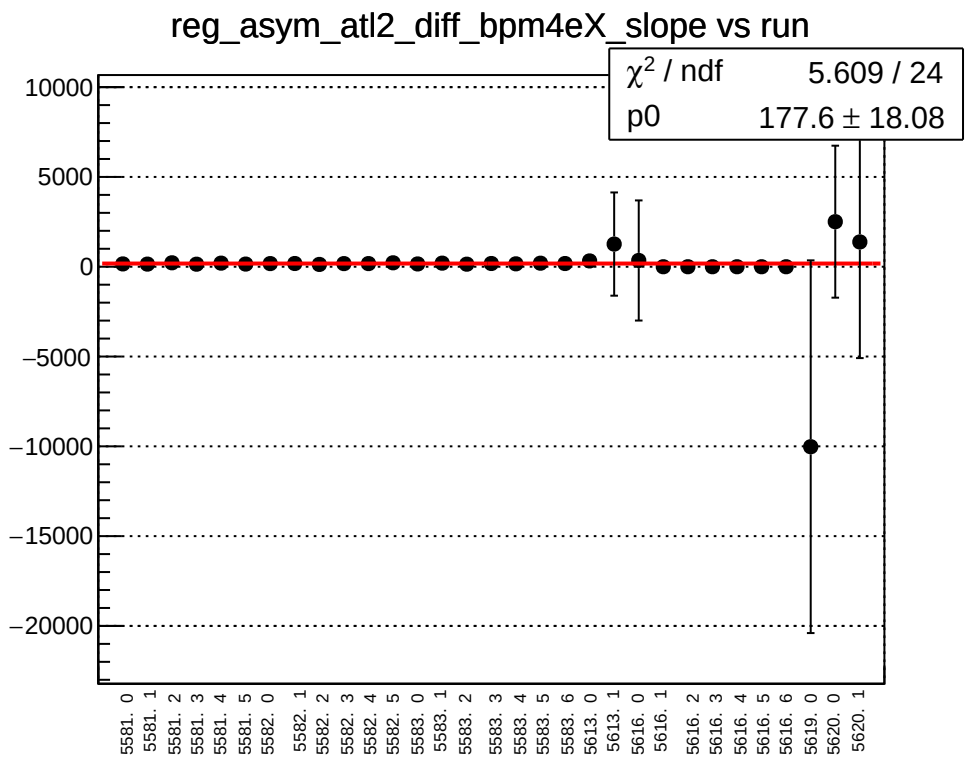

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 2959 / 30
p0 −23.31 ± 0.2839
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −24.5
Std Dev 40.31
20
15
10
5
0
−5
−10
−15
pull1D
Entries 31
Mean −5.353
Std Dev 3.187
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

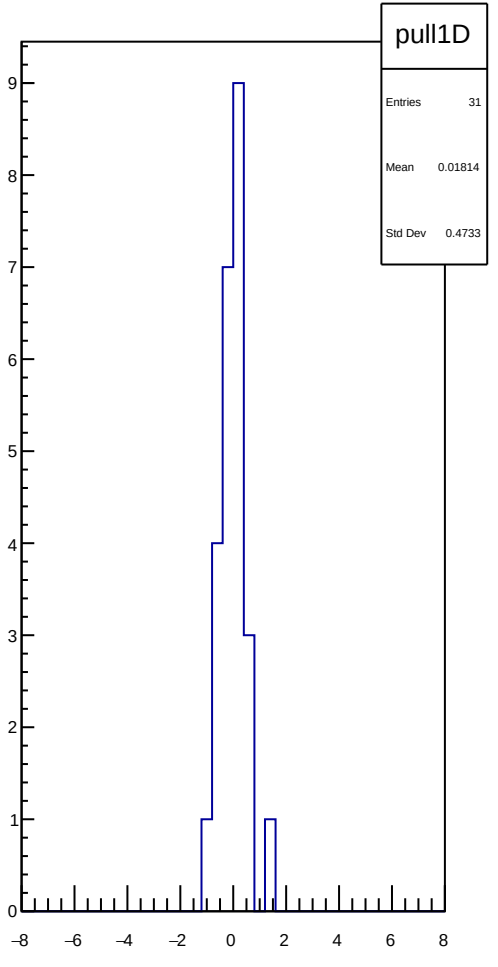

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 6.495 / 24
p0 −221.6 ± 19
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

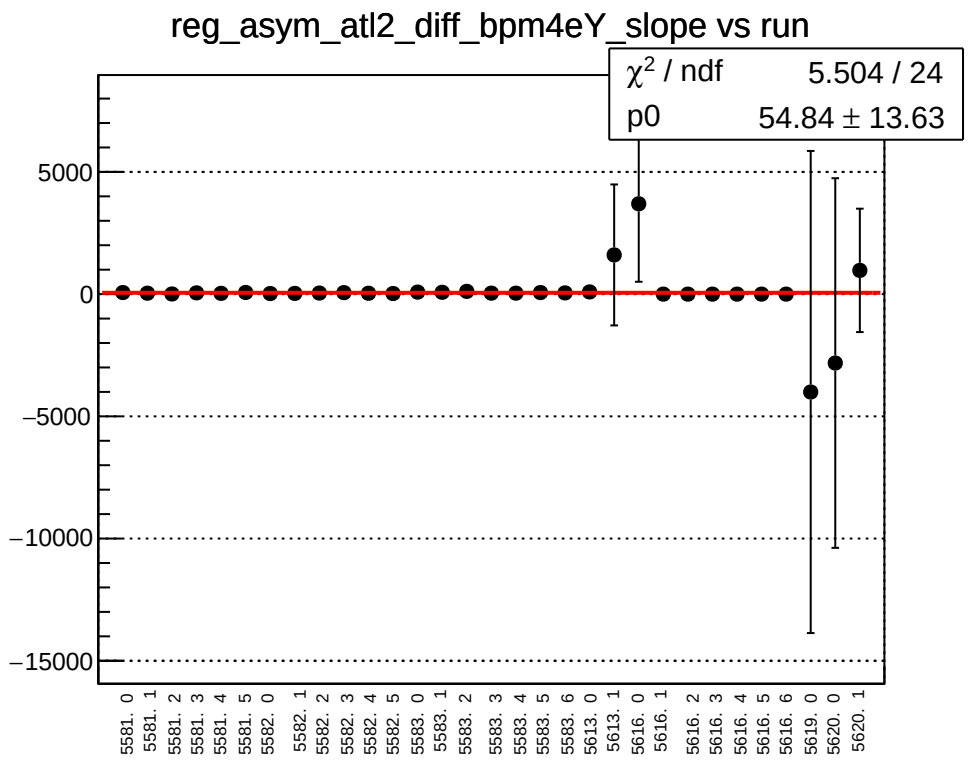

pull1D
Entries 31
Mean −0.01416
Std Dev 0.5095
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

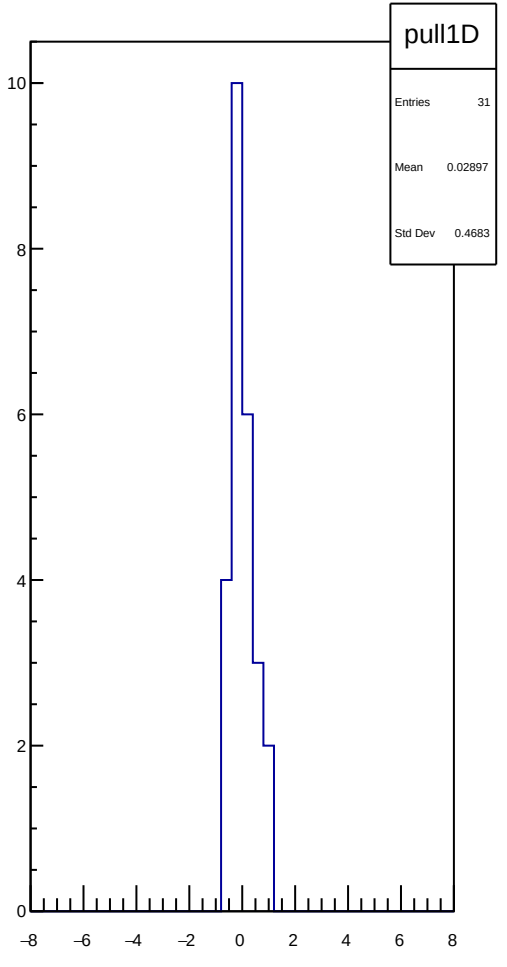

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.326 / 24
p0 39.35 ± 10.38
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

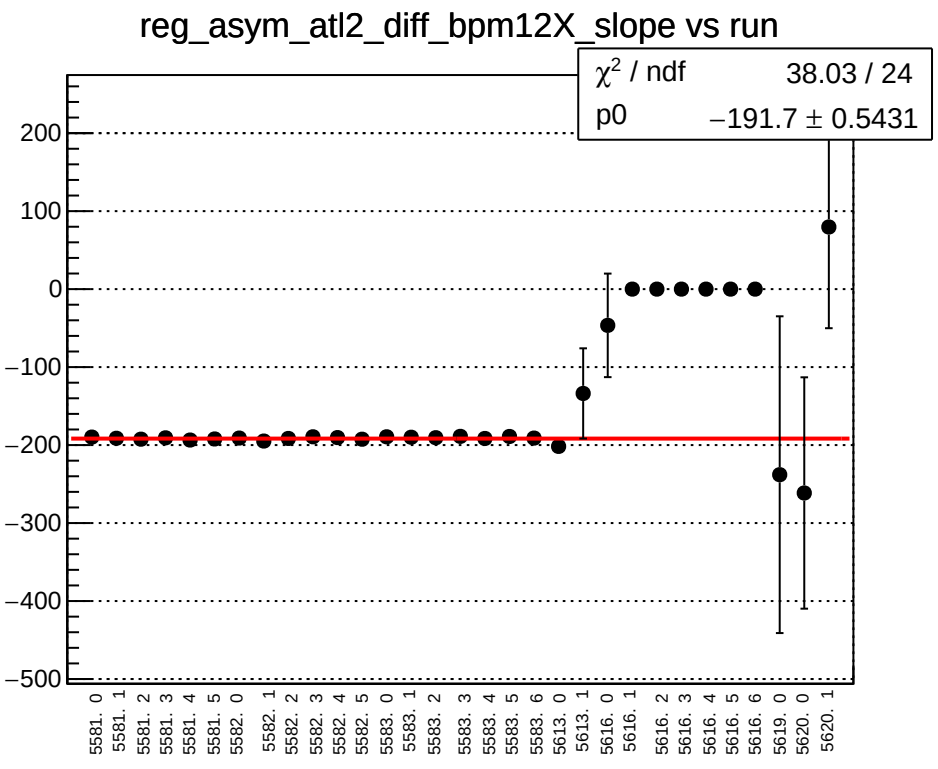

pull1D
Entries 31
Mean −0.0513
Std Dev 0.5004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

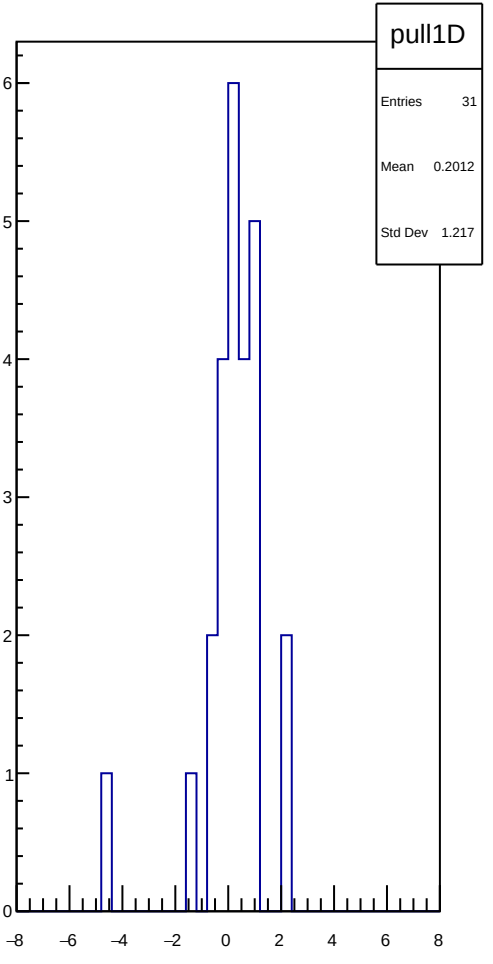

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 5.609 / 24
p0 177.6 ± 18.08
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

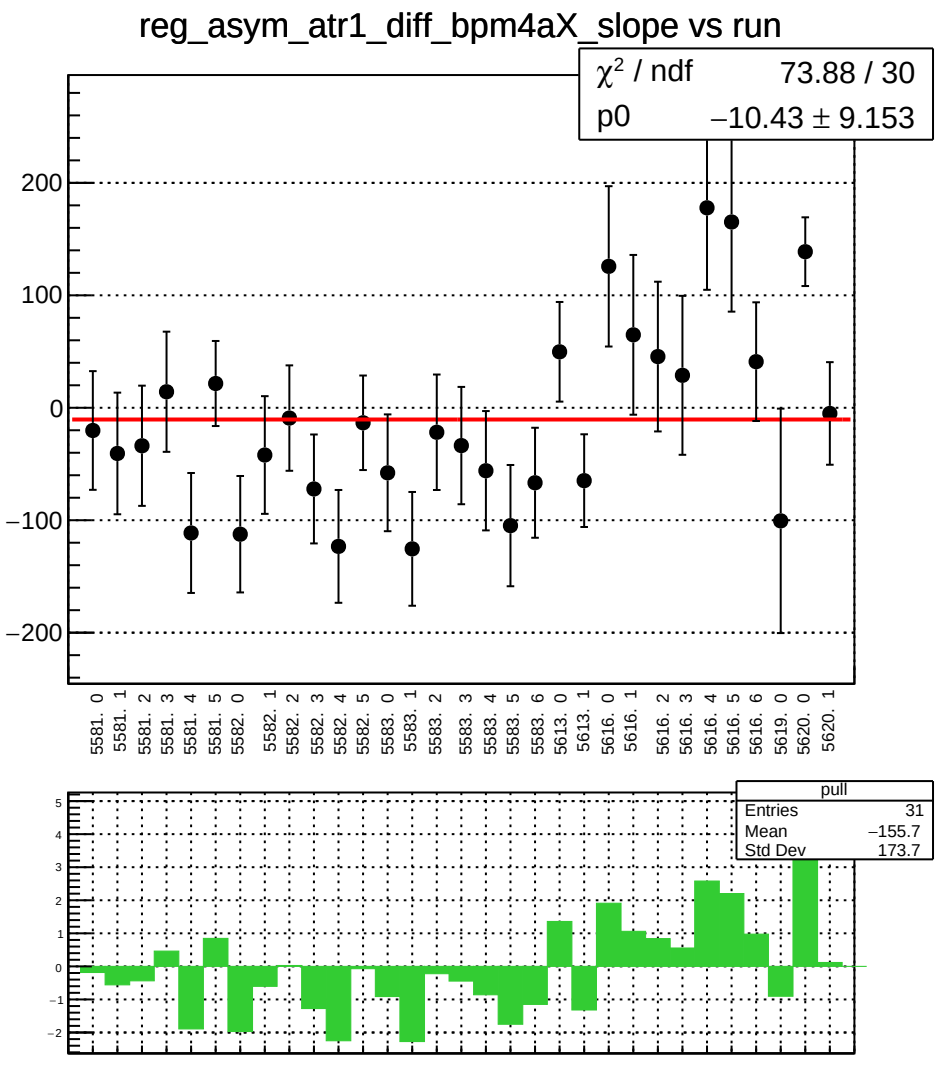

pull1D
Entries 31
Mean 0.01814
Std Dev 0.4733
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

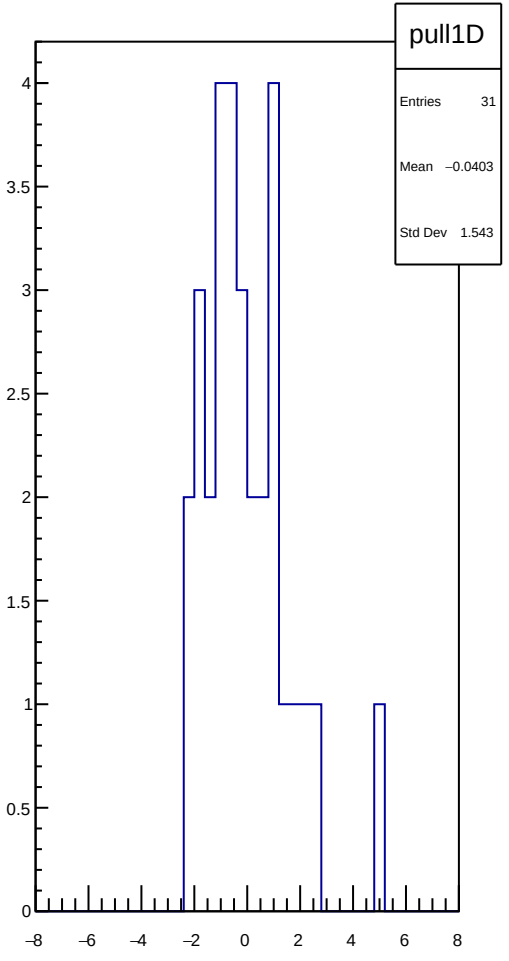

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.504 / 24
p0 54.84 ± 13.63
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

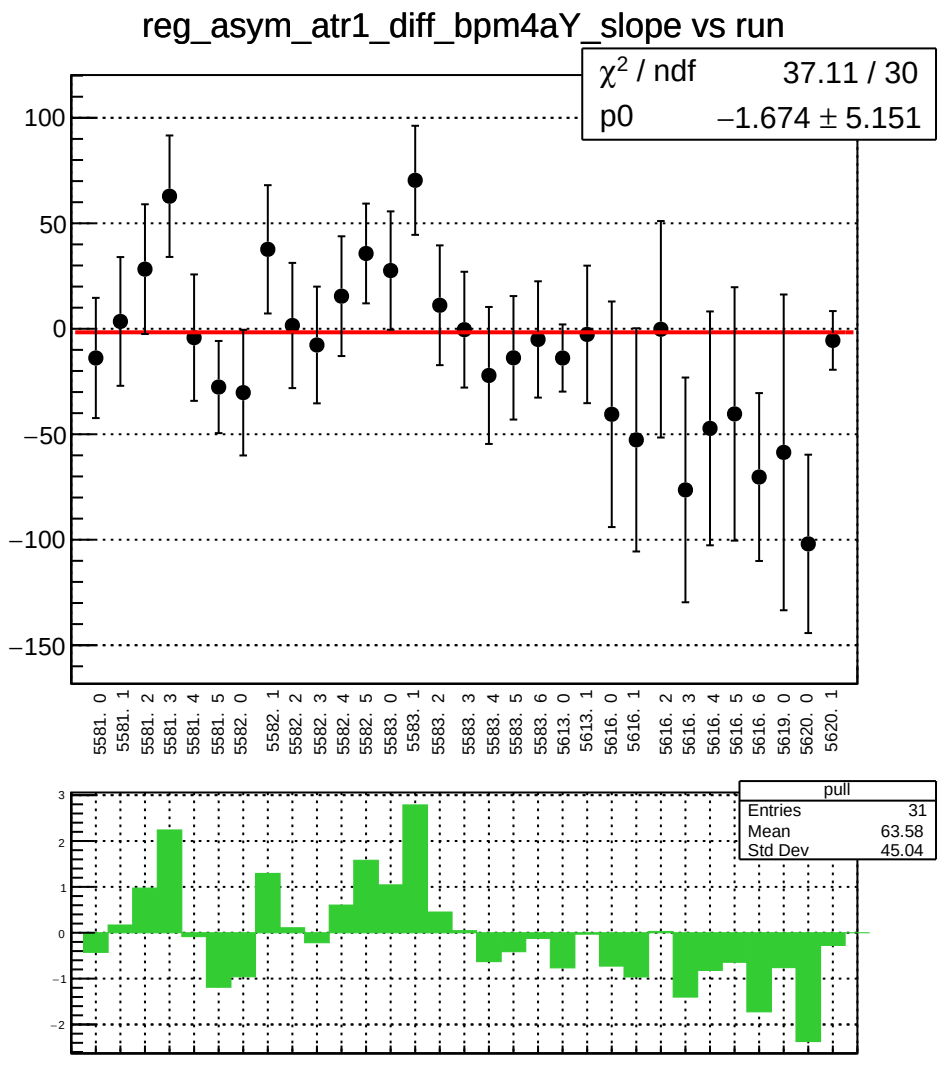

pull1D
Entries 31
Mean 0.02897
Std Dev 0.4683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

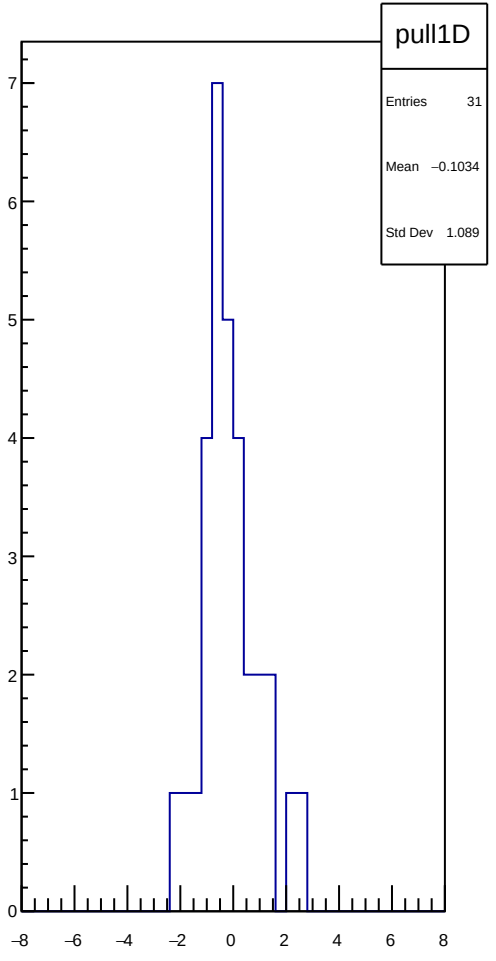

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 38.03 / 24
p0 −191.7 ± 0.5431
200
100
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

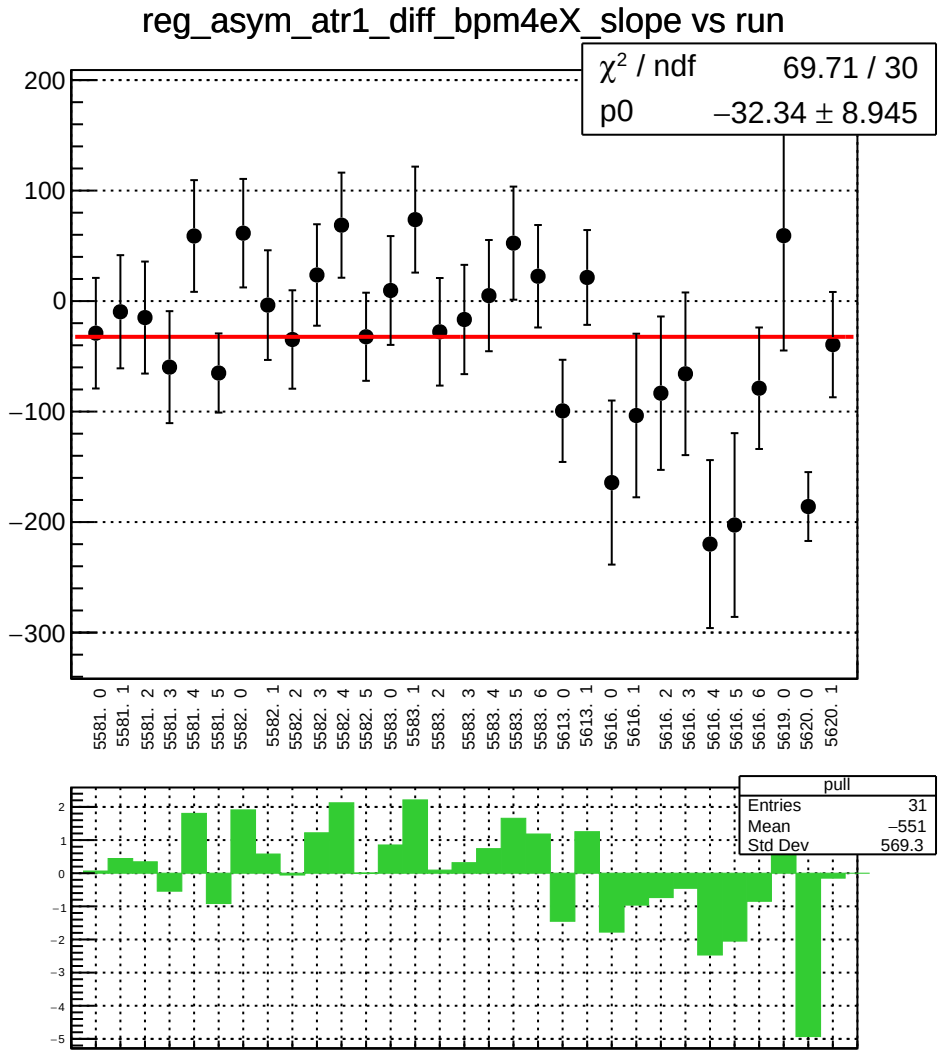

pull1D
Entries 31
Mean 0.2012
Std Dev 1.217
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

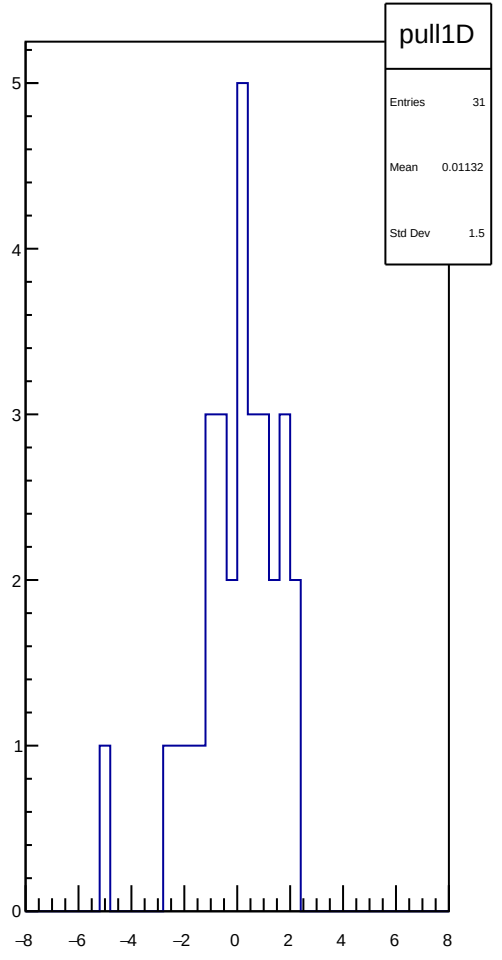

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 73.88 / 30
p0 −10.43 ± 9.153
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −155.7
Std Dev 173.7
5
4
3
2
1
0
−1
−2

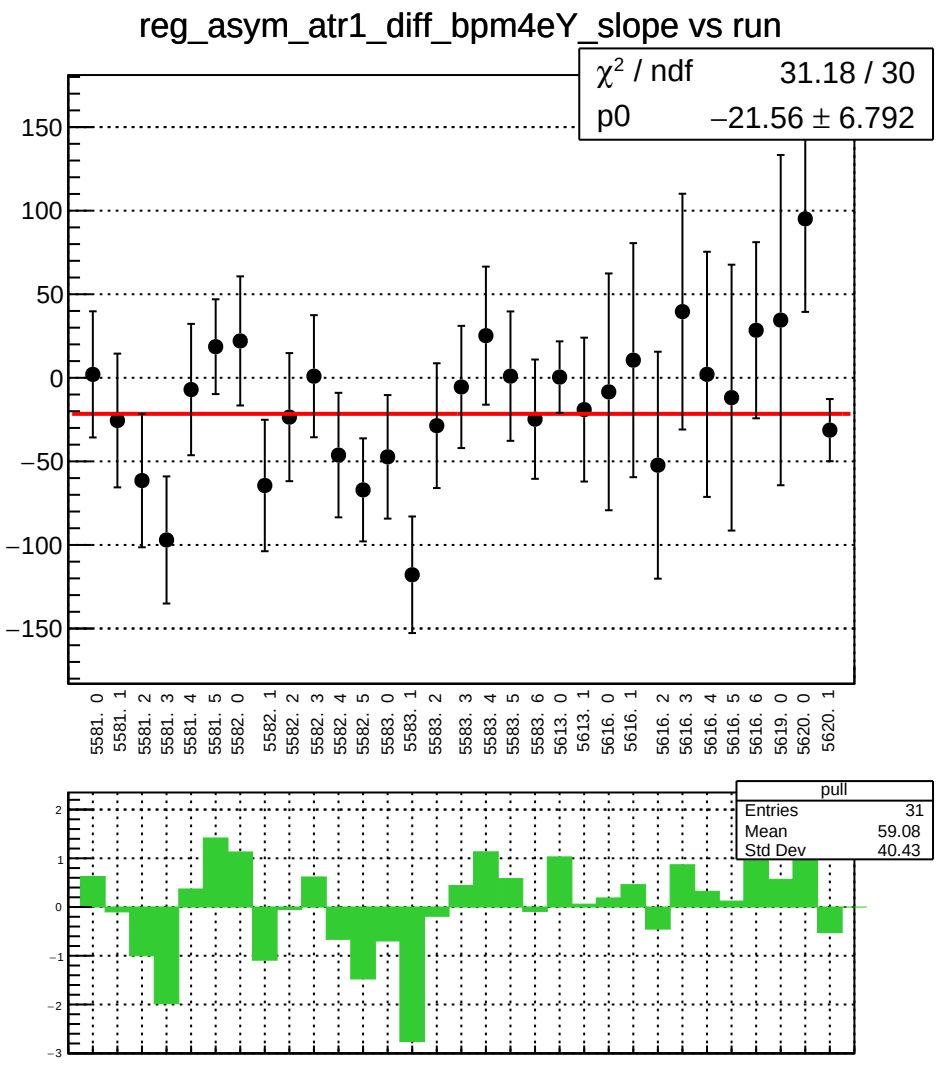

pull1D
Entries 31
Mean −0.0403
Std Dev 1.543
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

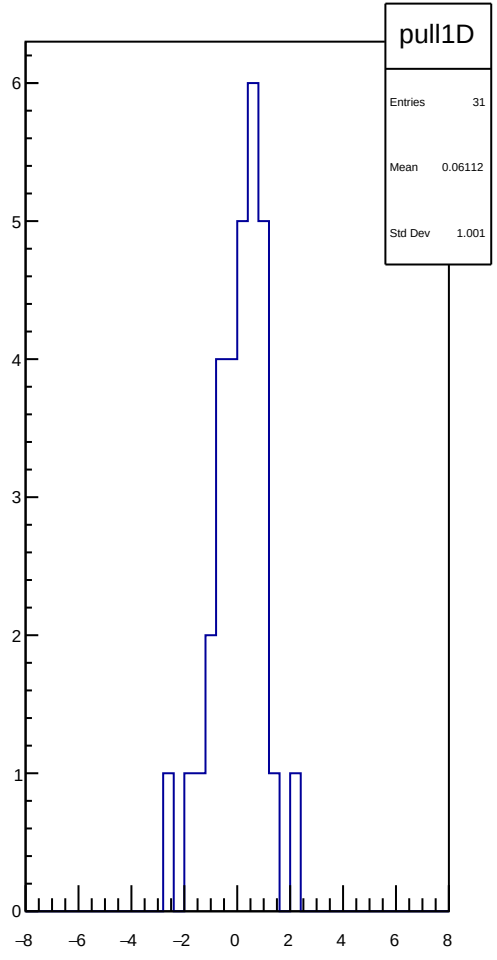

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 37.11 / 30
p0 −1.674 ± 5.151
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 63.58
Std Dev 45.04
3
2
1
0
−1
−2

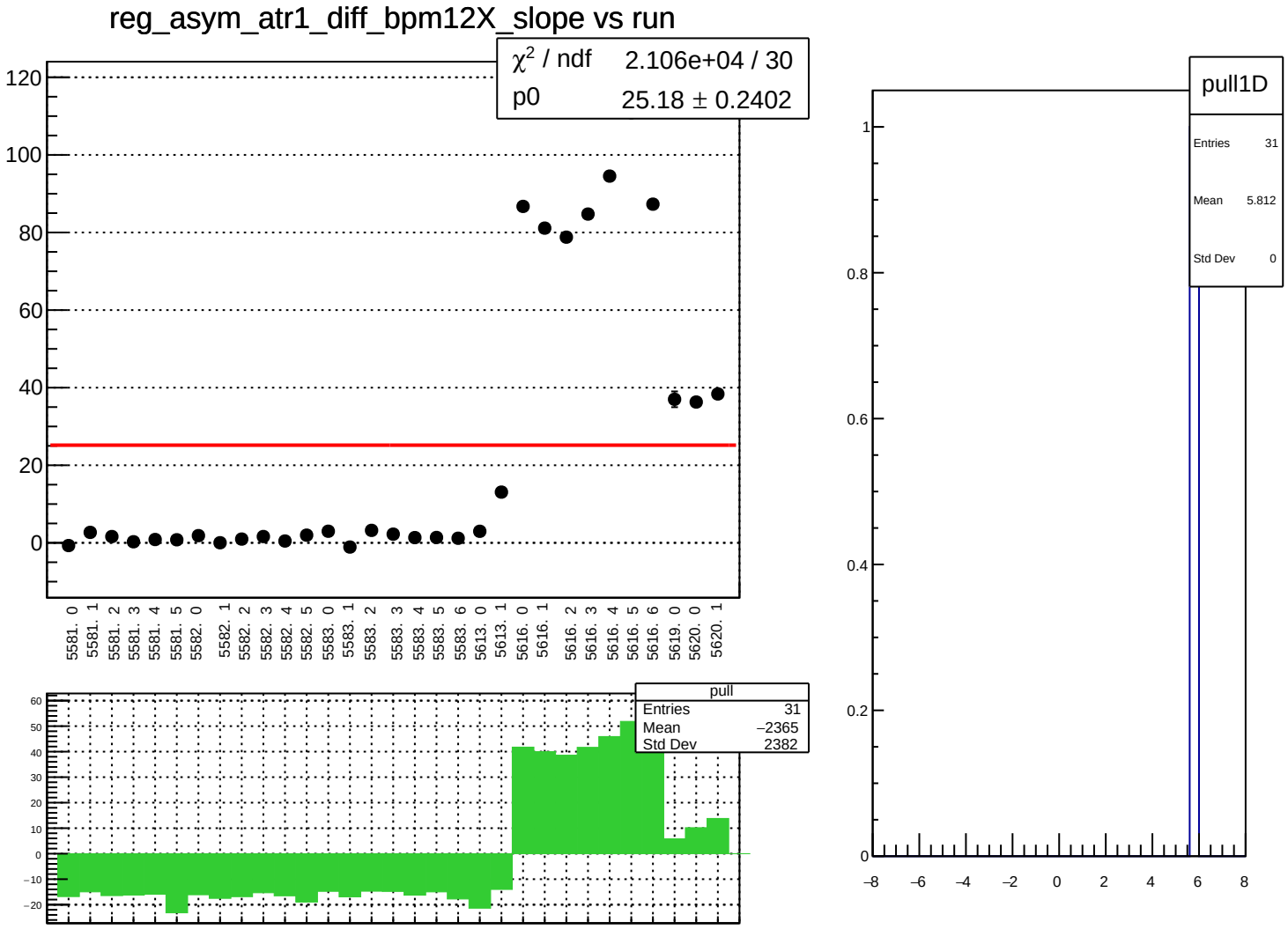

pull1D
Entries 31
Mean −0.1034
Std Dev 1.089
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

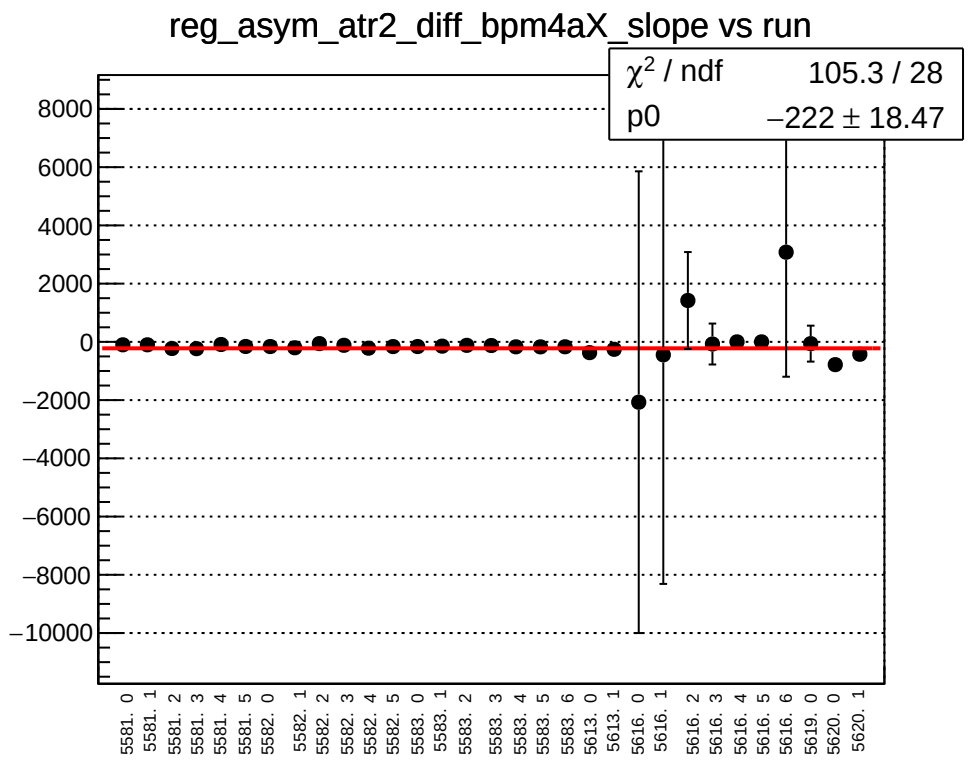

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 69.71 / 30
p0 −32.34 ± 8.945
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −551
Std Dev 569.3
2
1
0
−1
−2
−3
−4
−5

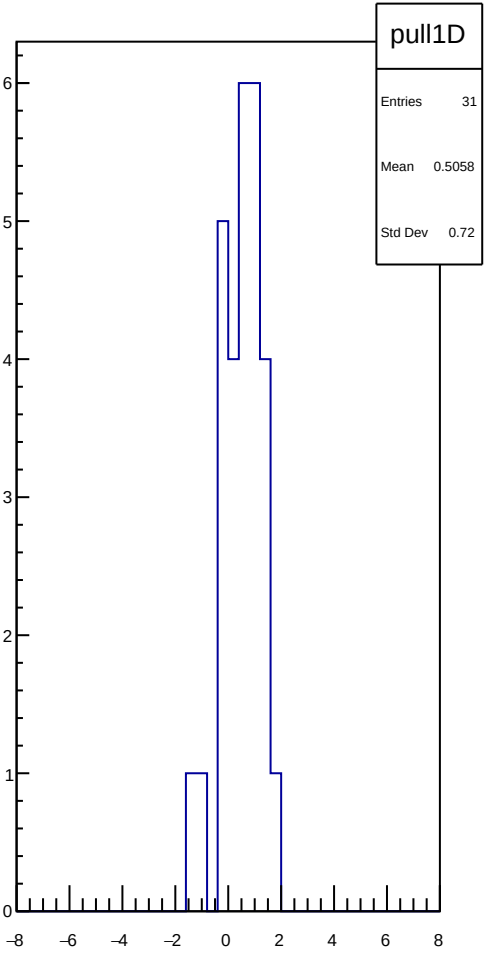

pull1D
Entries 31
Mean 0.01132
Std Dev 1.5
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

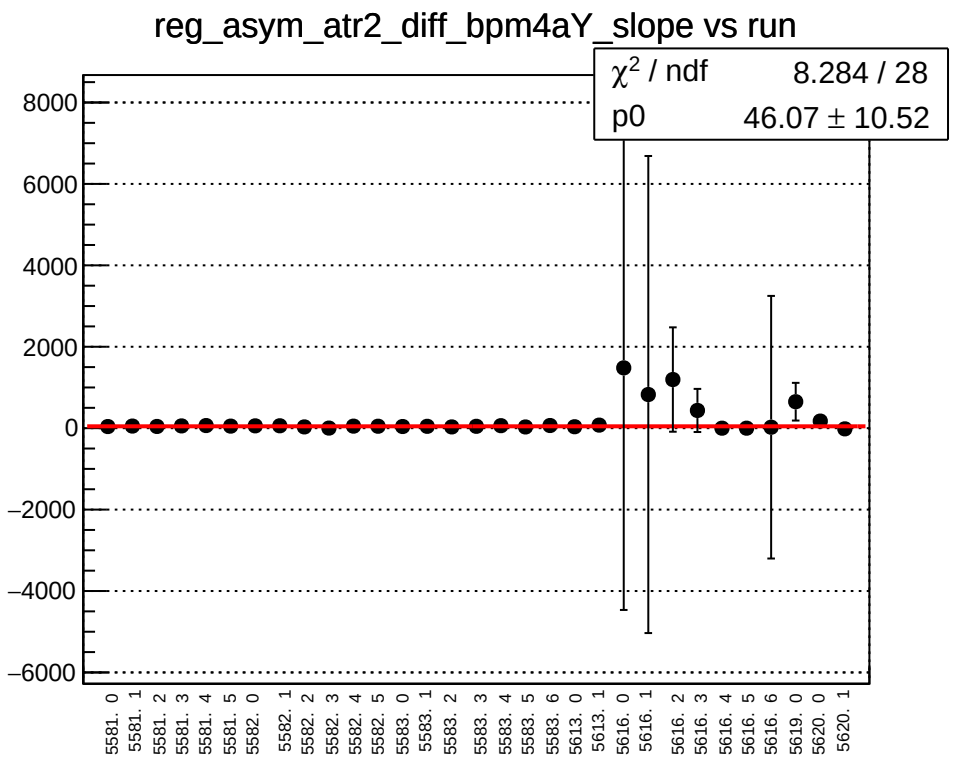

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 31.18 / 30
p0 −21.56 ± 6.792
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 59.08
Std Dev 40.43
2
1
0
−1
−2
−3

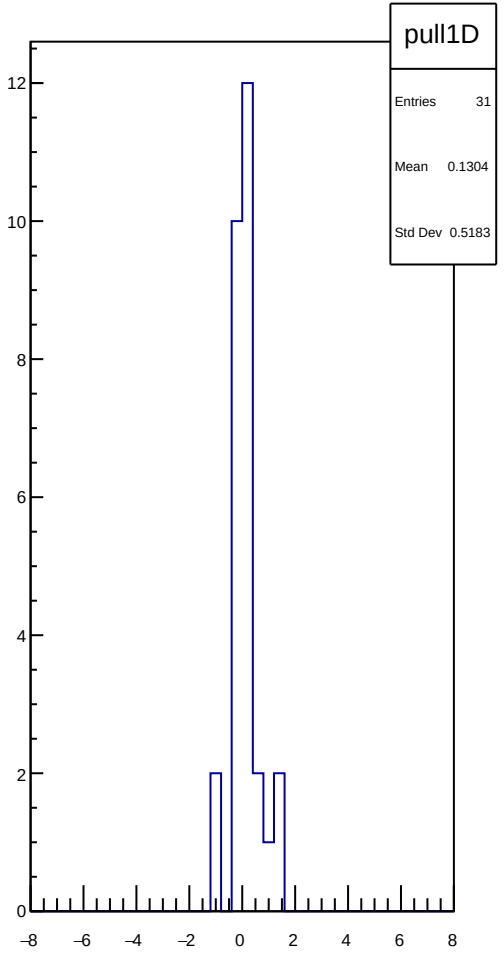

pull1D
Entries 31
Mean 0.06112
Std Dev 1.001
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

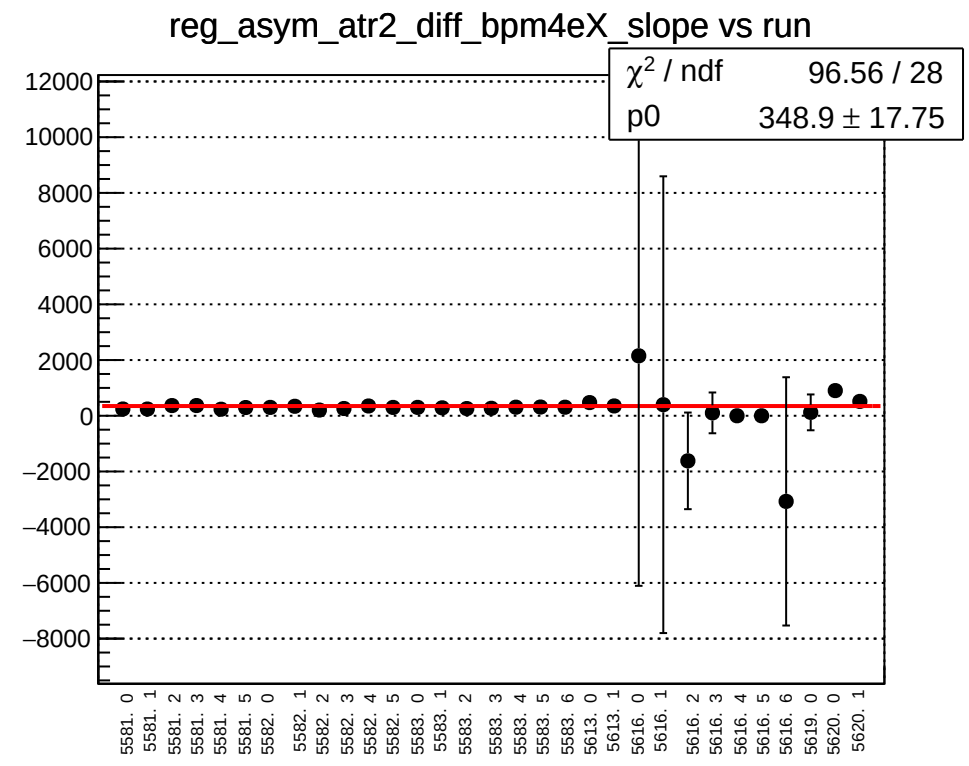

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 2.106e+04 / 30
p0 25.18 ± 0.2402
120
100
80
60
40
20
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −2365
Std Dev 2382
60
50
40
30
20
10
0
−10
−20
pull1D
Entries 31
Mean 5.812
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

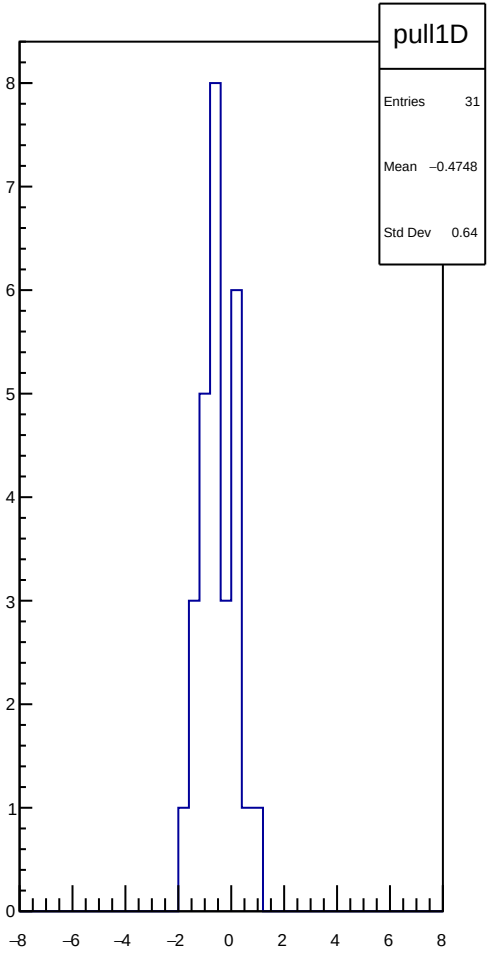

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 105.3 / 28
p0 −222 ± 18.47
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

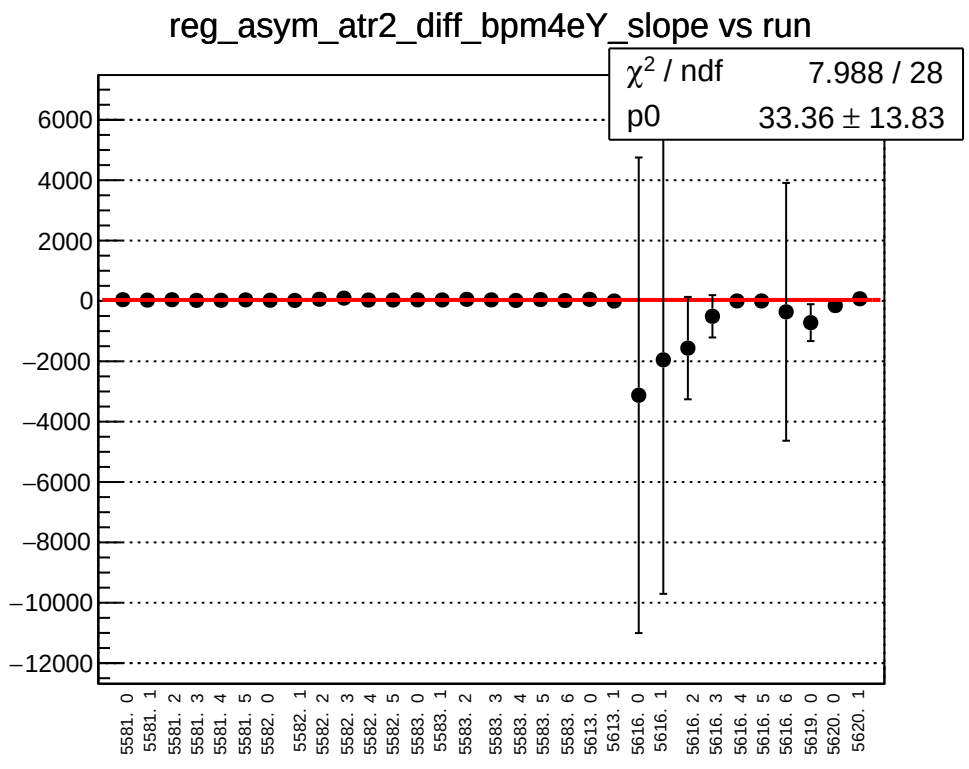

pull1D
Entries 31
Mean 0.5058
Std Dev 0.72
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

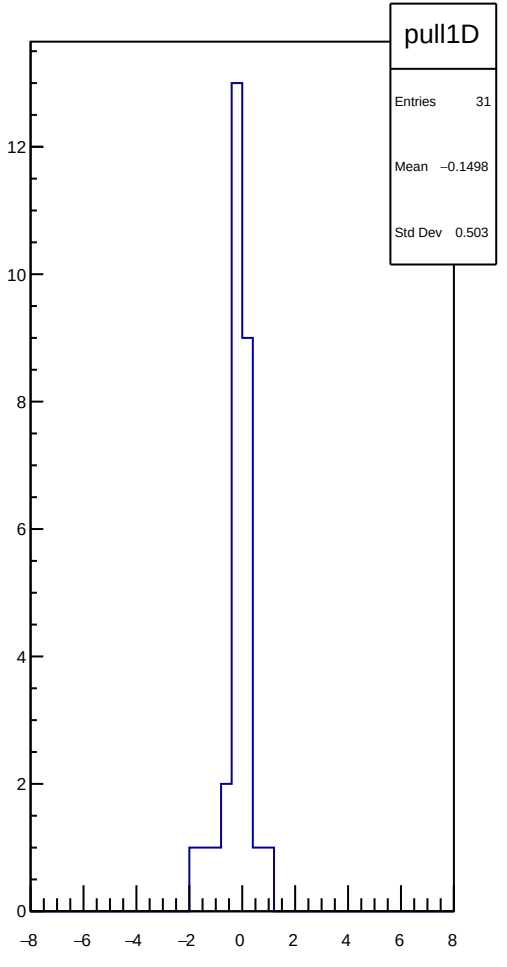

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 8.284 / 28
p0 46.07 ± 10.52
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

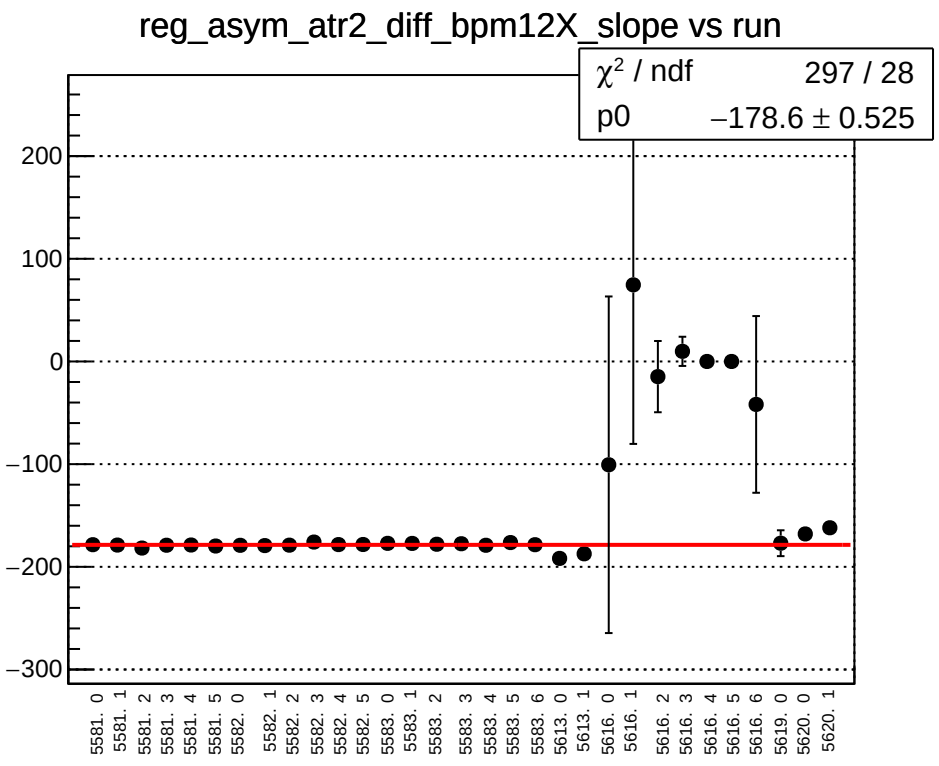

pull1D
Entries 31
Mean 0.1304
Std Dev 0.5183
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

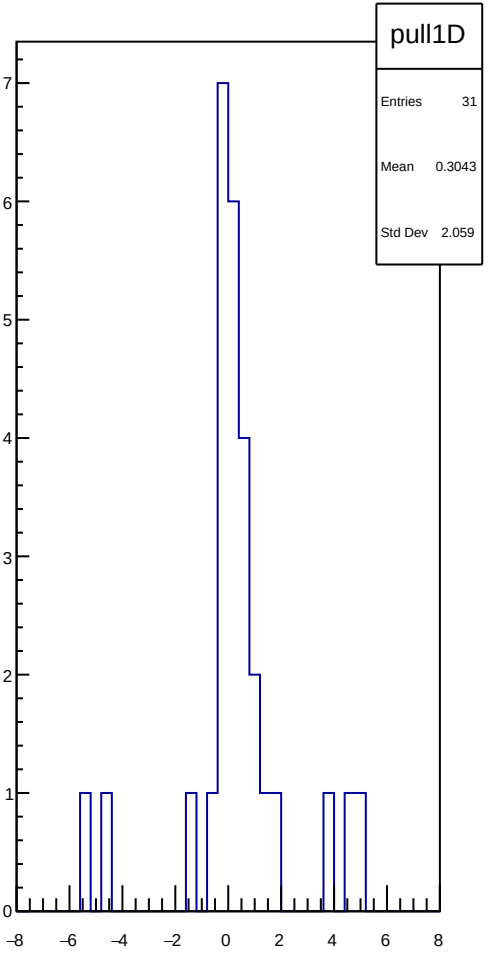

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 96.56 / 28
p0 348.9 ± 17.75
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

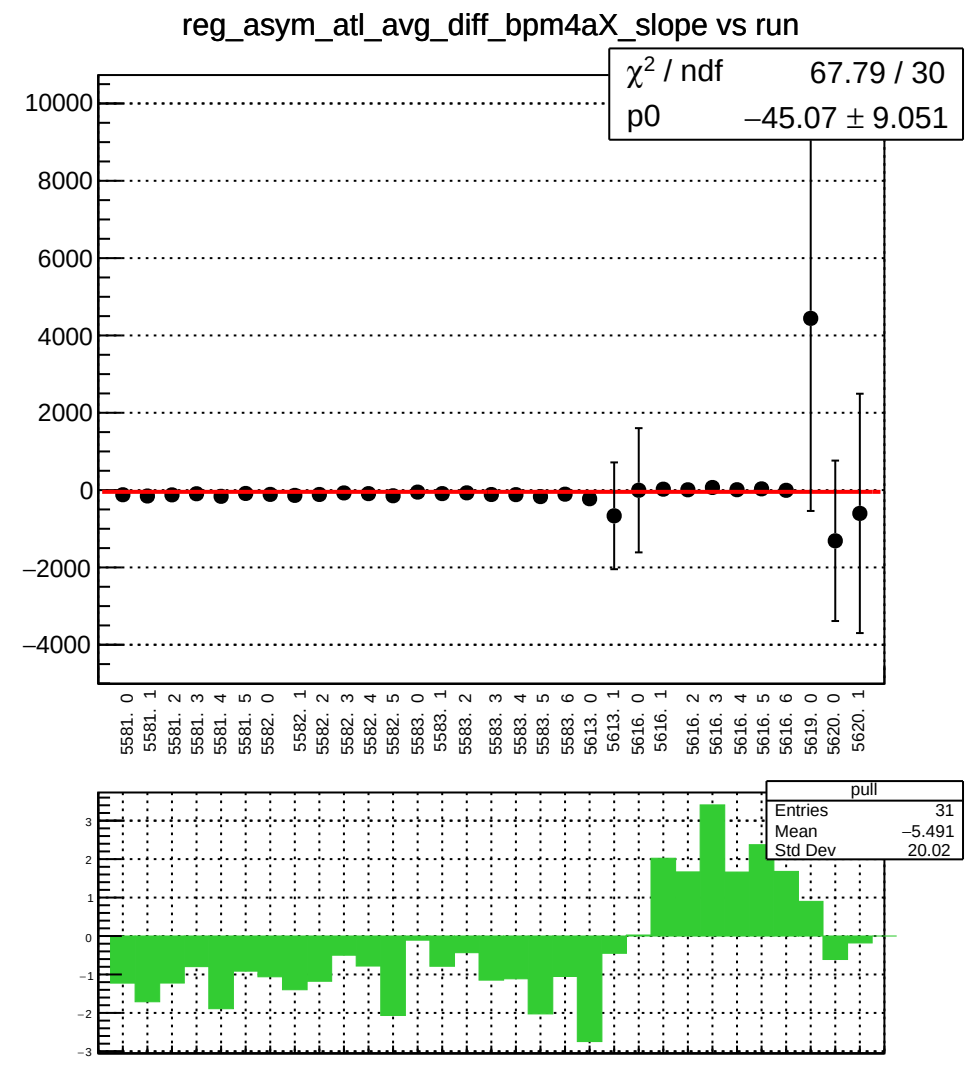

pull1D
Entries 31
Mean −0.4748
Std Dev 0.64
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

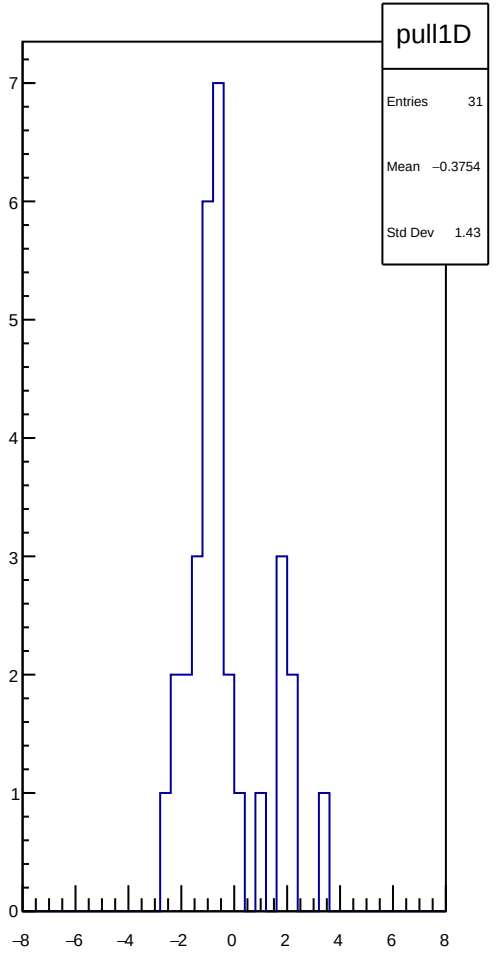

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 7.988 / 28
p0 33.36 ± 13.83
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

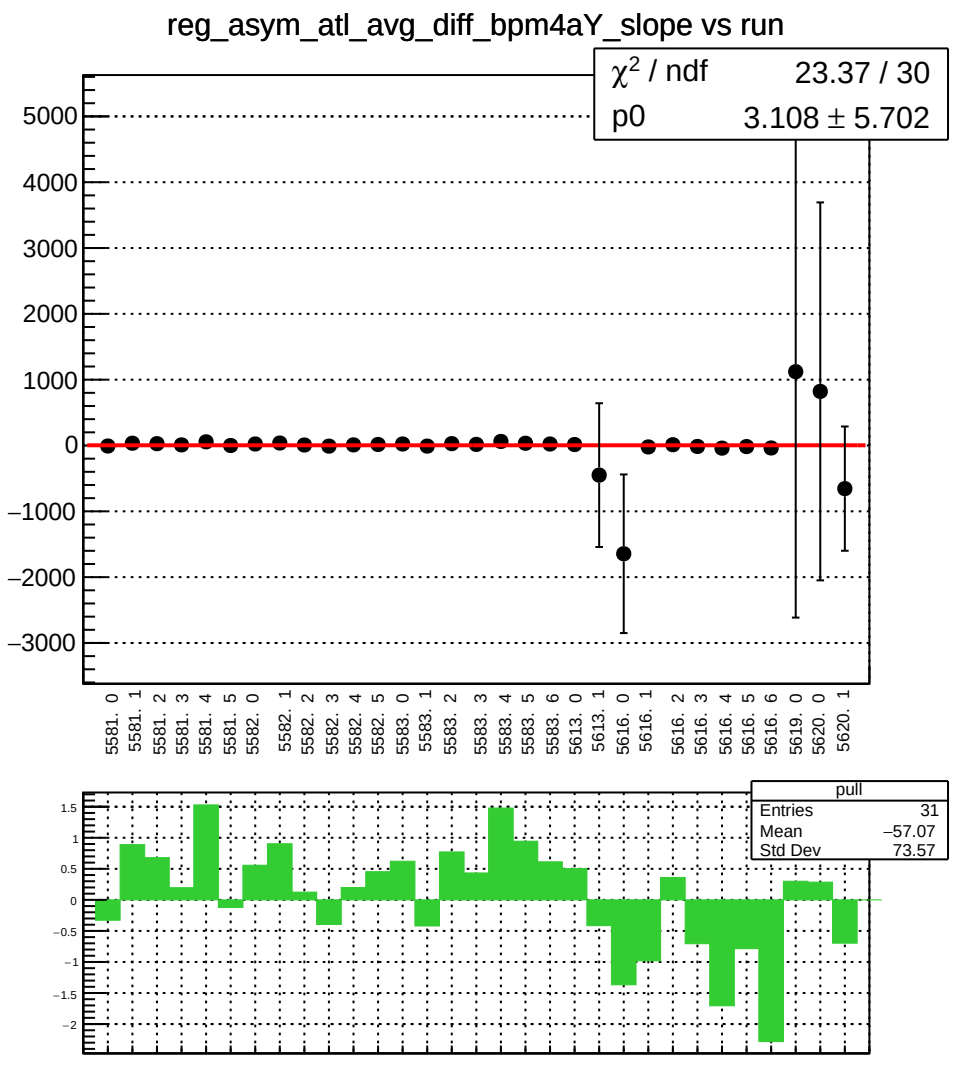

pull1D
Entries 31
Mean −0.1498
Std Dev 0.503
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

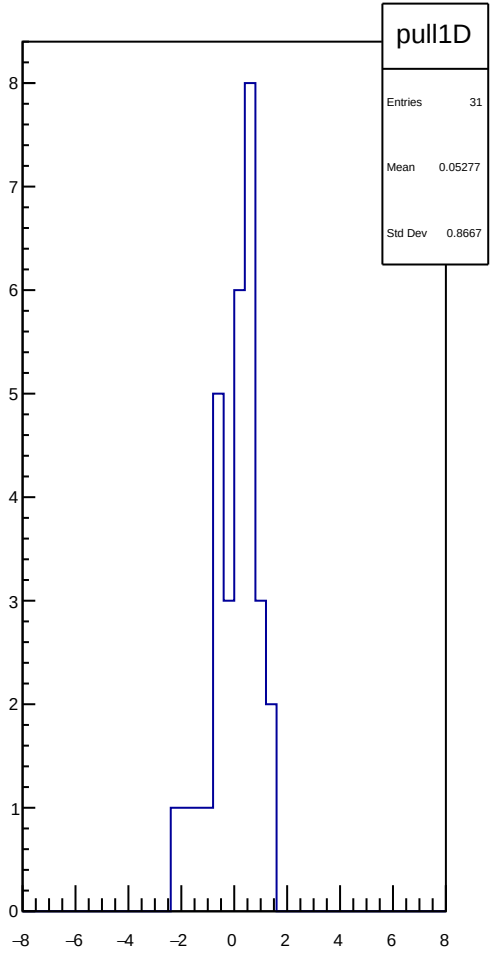

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 297 / 28
p0 −178.6 ± 0.525
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

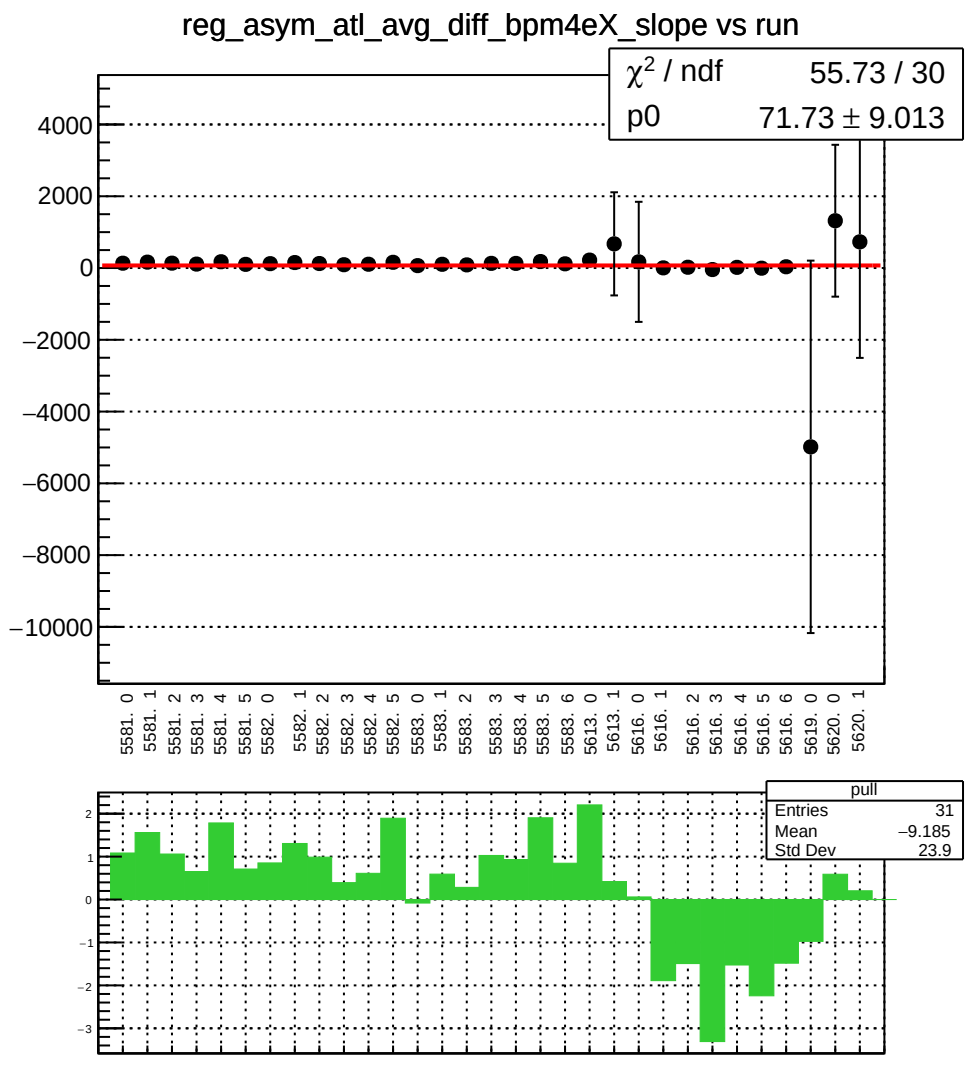

pull1D
Entries 31
Mean 0.3043
Std Dev 2.059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

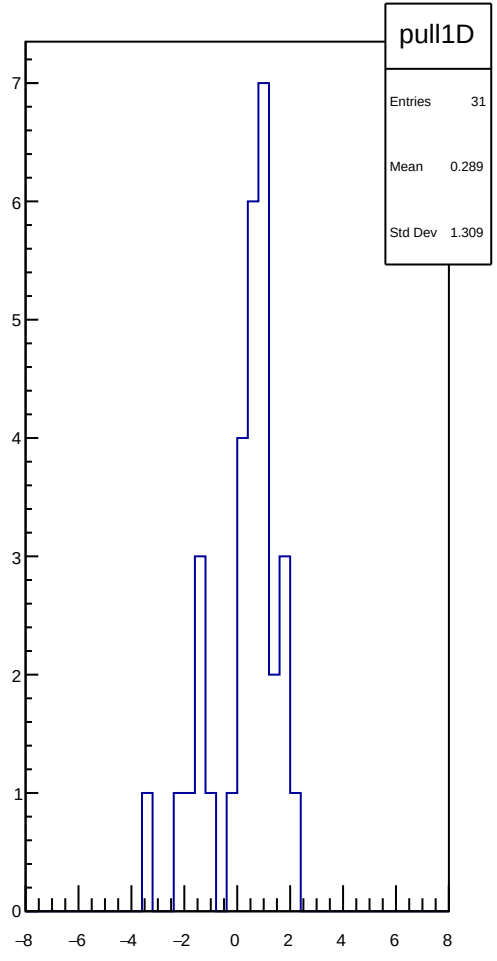

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 67.79 / 30
p0 −45.07 ± 9.051
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −5.491
Std Dev 20.02
3
2
1
0
−1
−2
−3

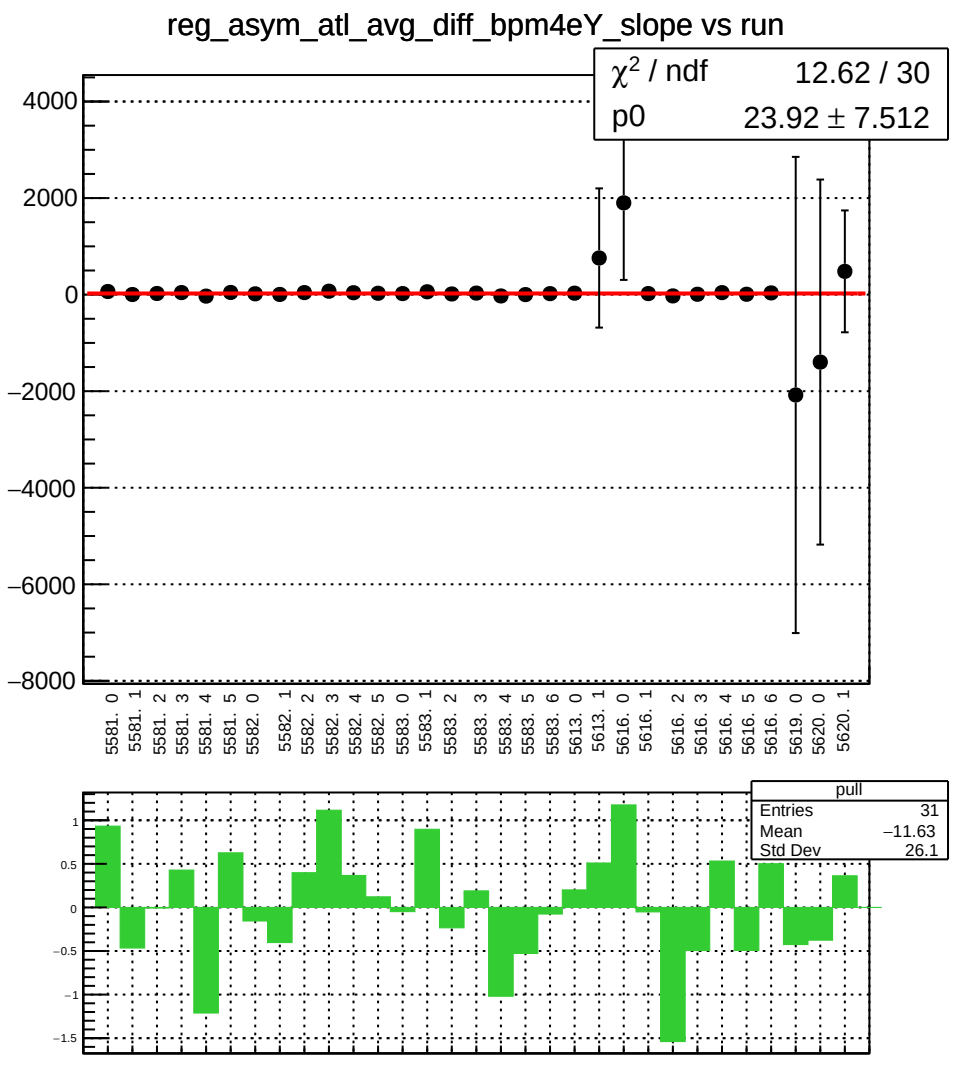

pull1D
Entries 31
Mean −0.3754
Std Dev 1.43
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

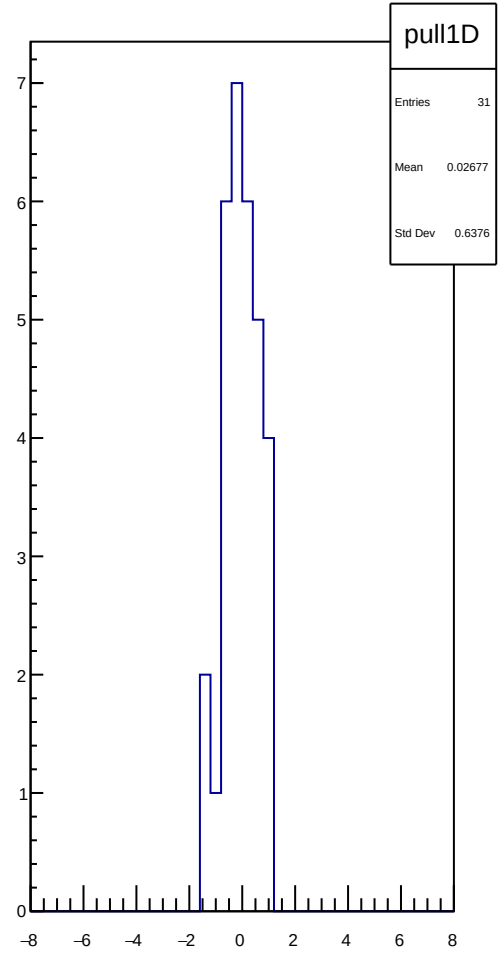

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.37 / 30
p0 3.108 ± 5.702
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −57.07
Std Dev 73.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2

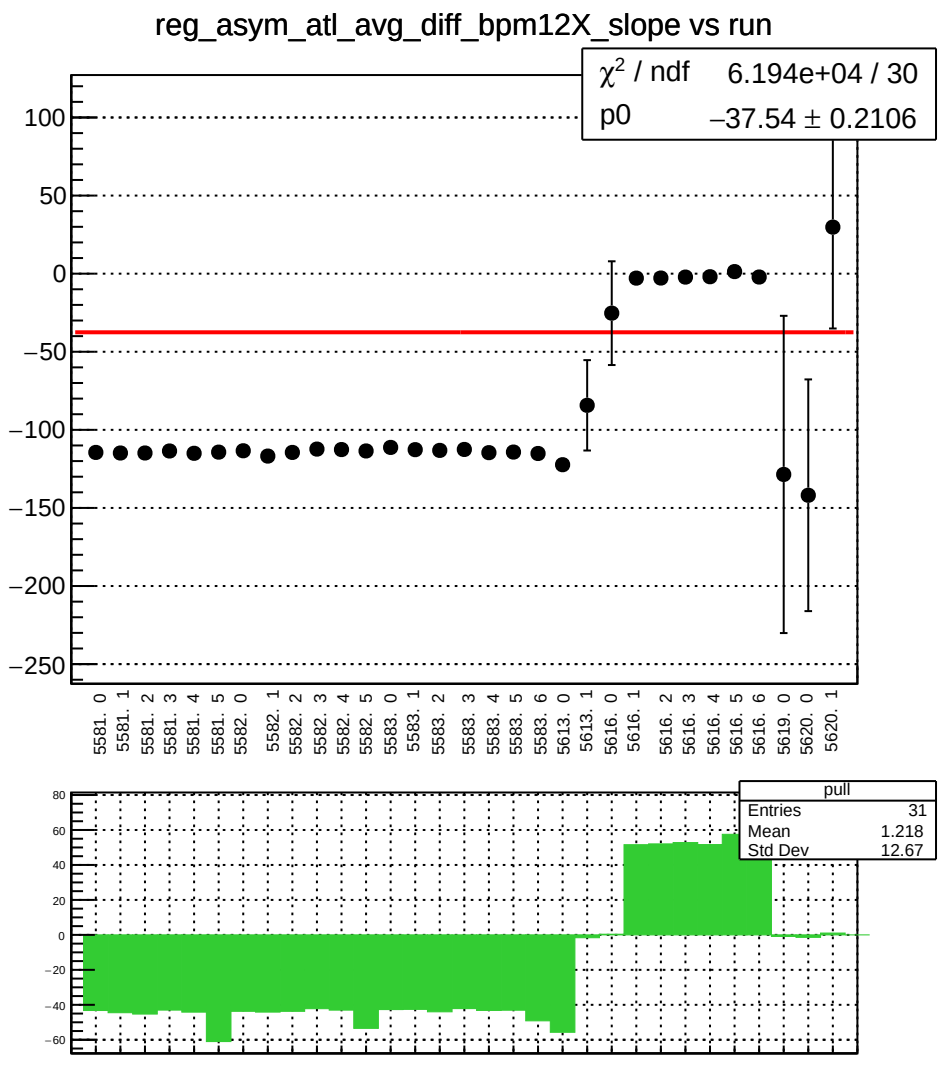

pull1D
Entries 31
Mean 0.05277
Std Dev 0.8667
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

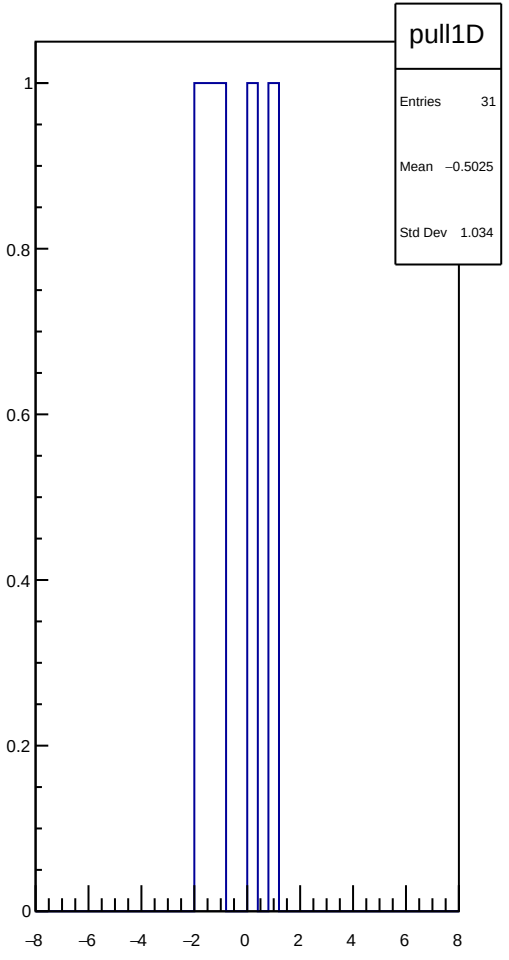

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.73 / 30
p0 71.73 ± 9.013
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −9.185
Std Dev 23.9
2
1
0
−1
−2
−3

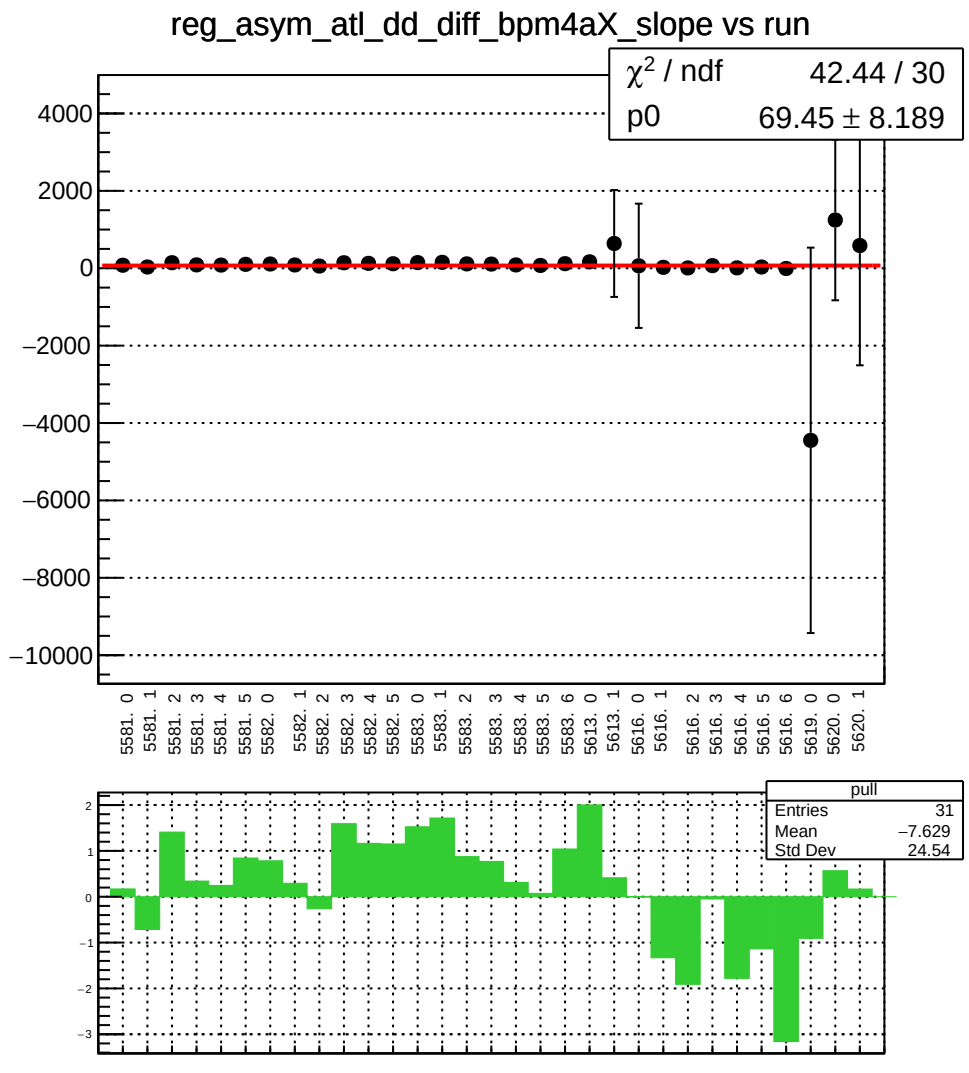

pull1D
Entries 31
Mean 0.289
Std Dev 1.309
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

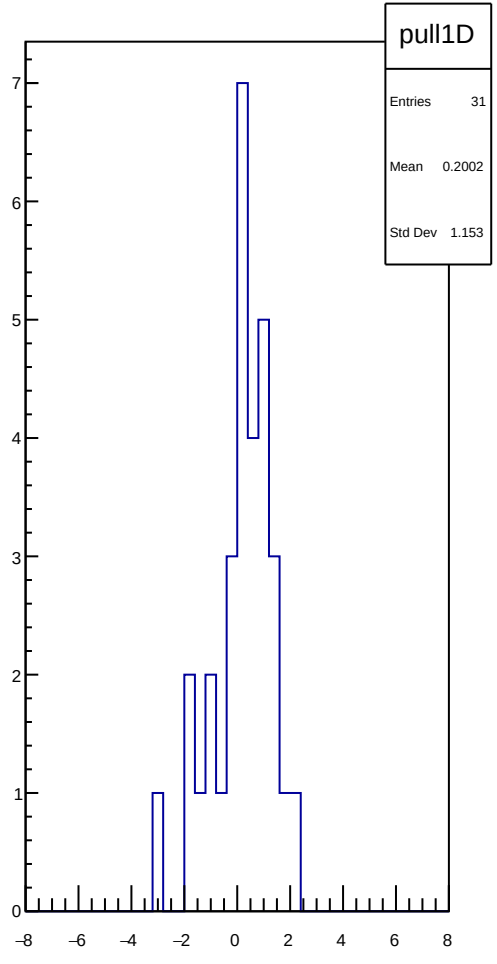

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.62 / 30
p0 23.92 ± 7.512
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −11.63
Std Dev 26.1
1
0.5
0
−0.5
−1
−1.5

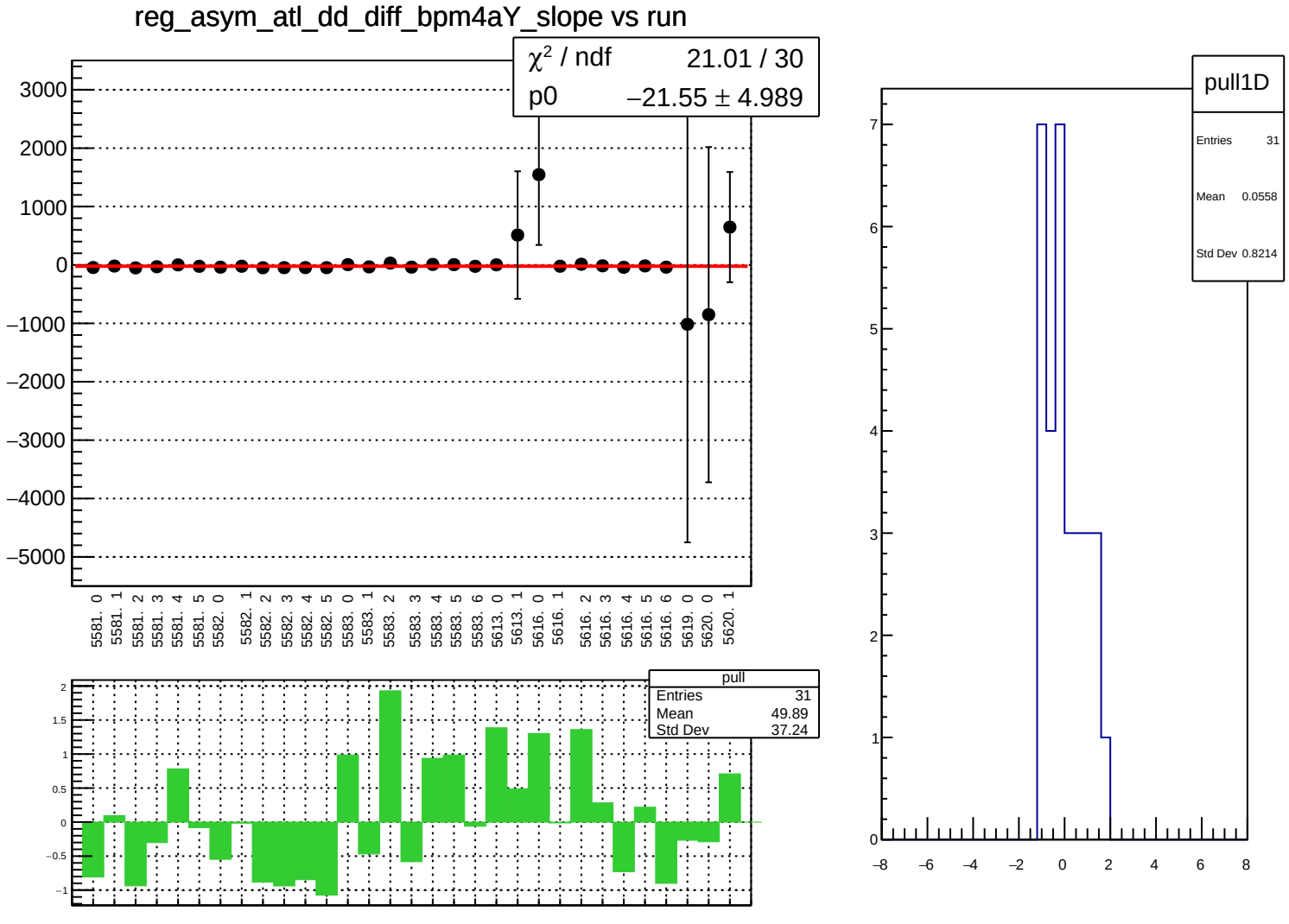

pull1D
Entries 31
Mean 0.02677
Std Dev 0.6376
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

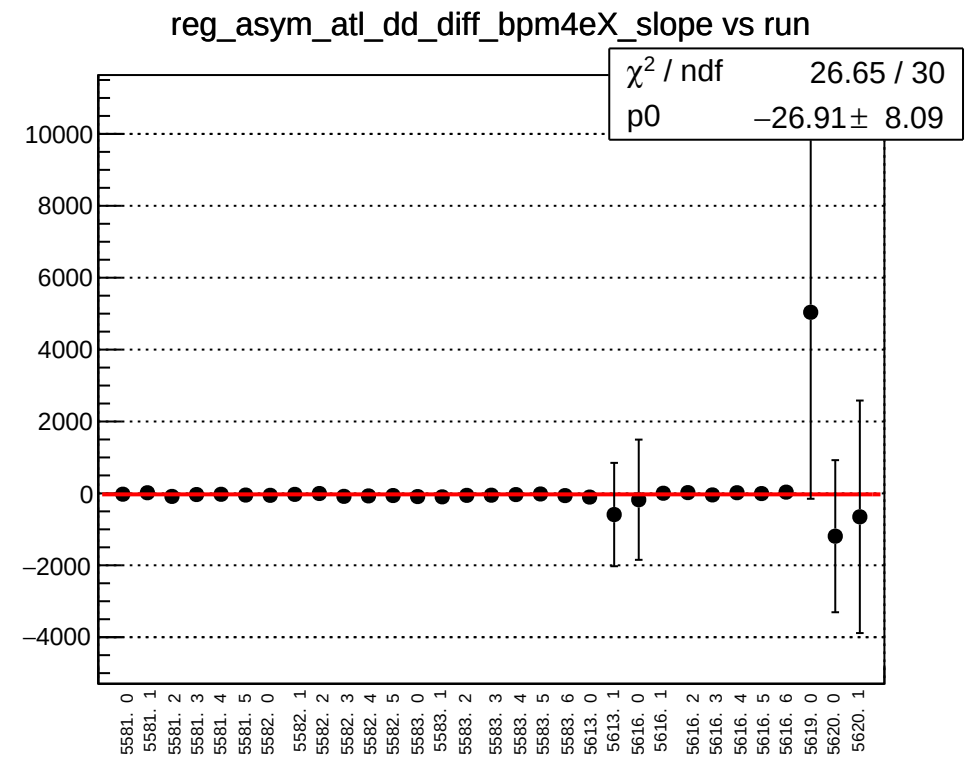

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 6.194e+04 / 30
p0 −37.54 ± 0.2106
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1.218
Std Dev 12.67
80
60
40
20
0
−20
−40
−60

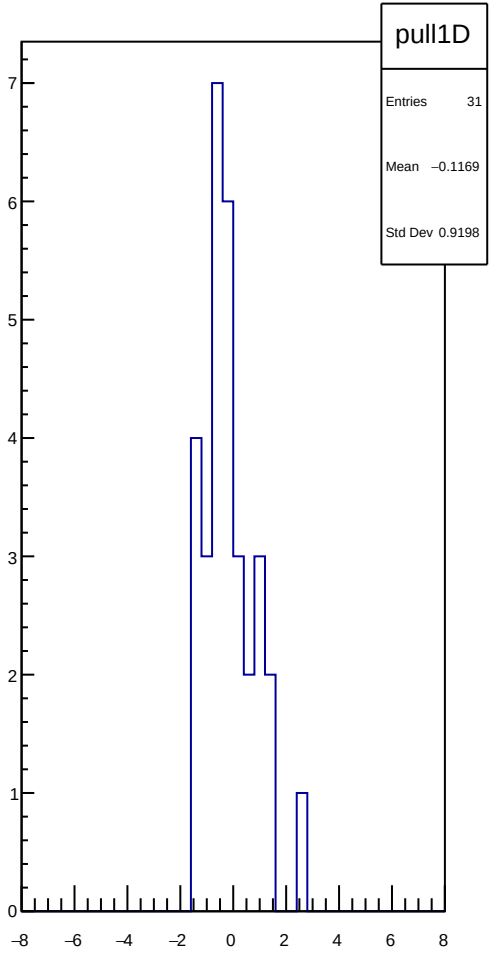

pull1D
Entries 31
Mean −0.5025
Std Dev 1.034
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

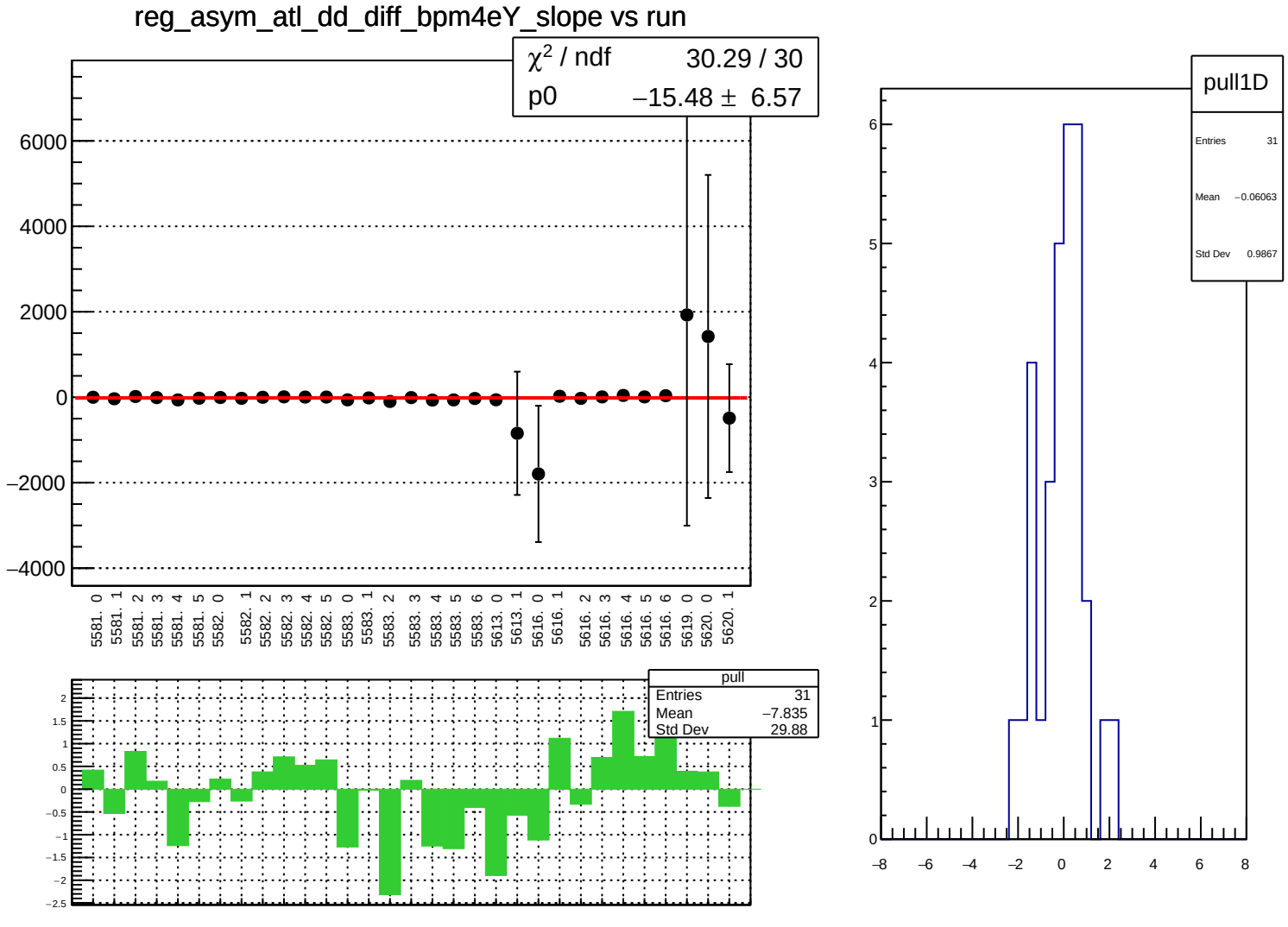

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.44 / 30
p0 69.45 ± 8.189
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −7.629
Std Dev 24.54
2
1
0
−1
−2
−3

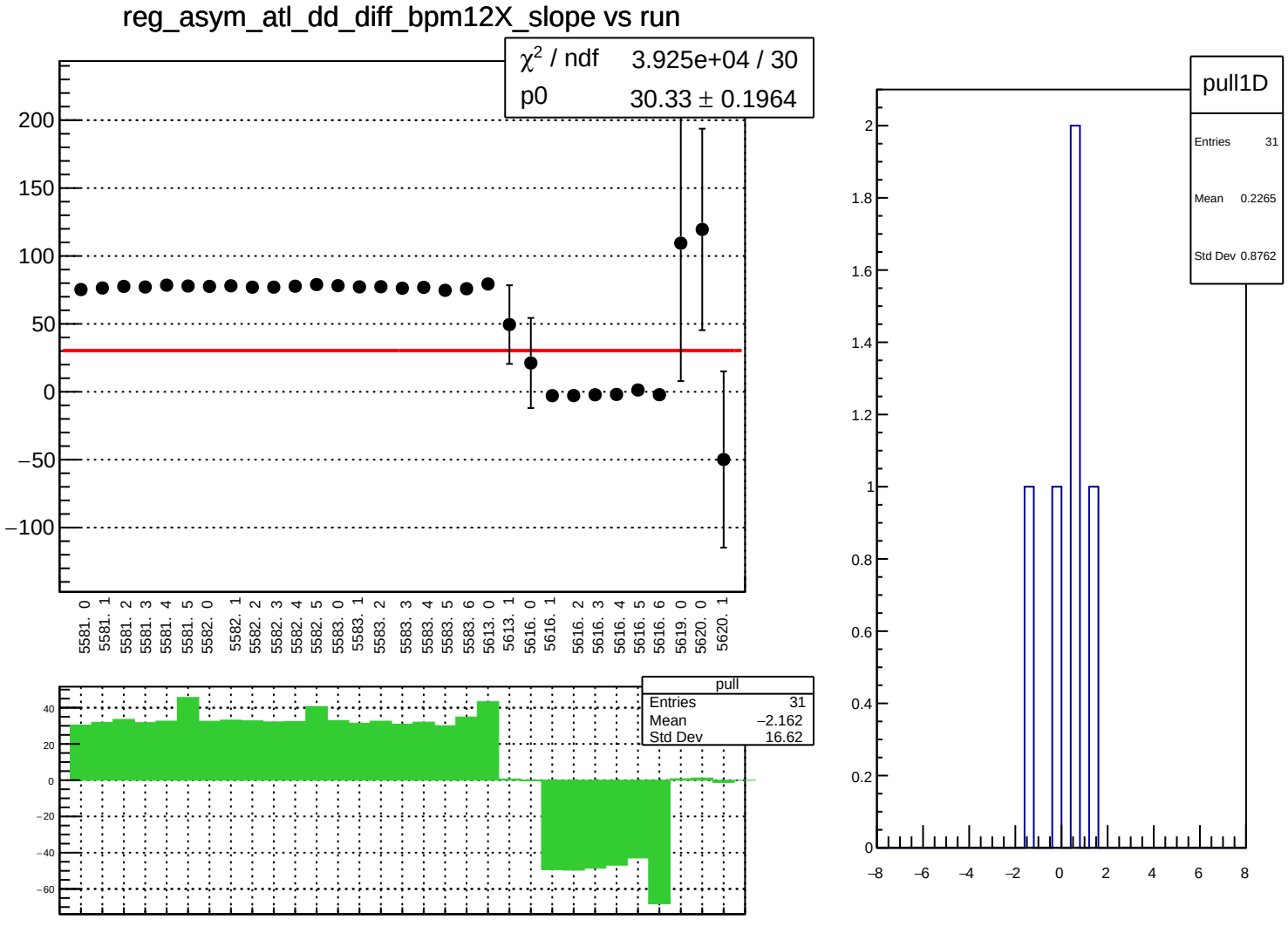

pull1D
Entries 31
Mean 0.2002
Std Dev 1.153
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

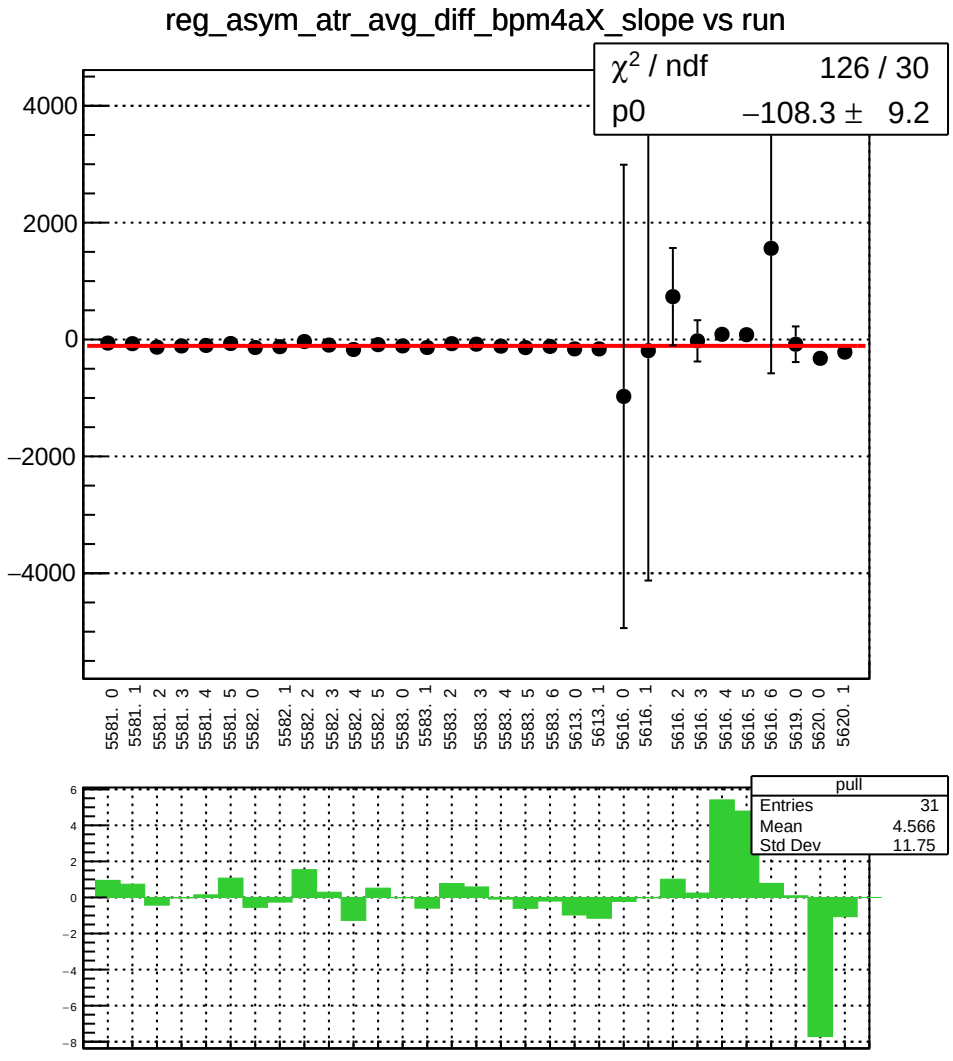

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.01 / 30
p0 −21.55 ± 4.989
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 49.89
Std Dev 37.24
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.0558
Std Dev 0.8214
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

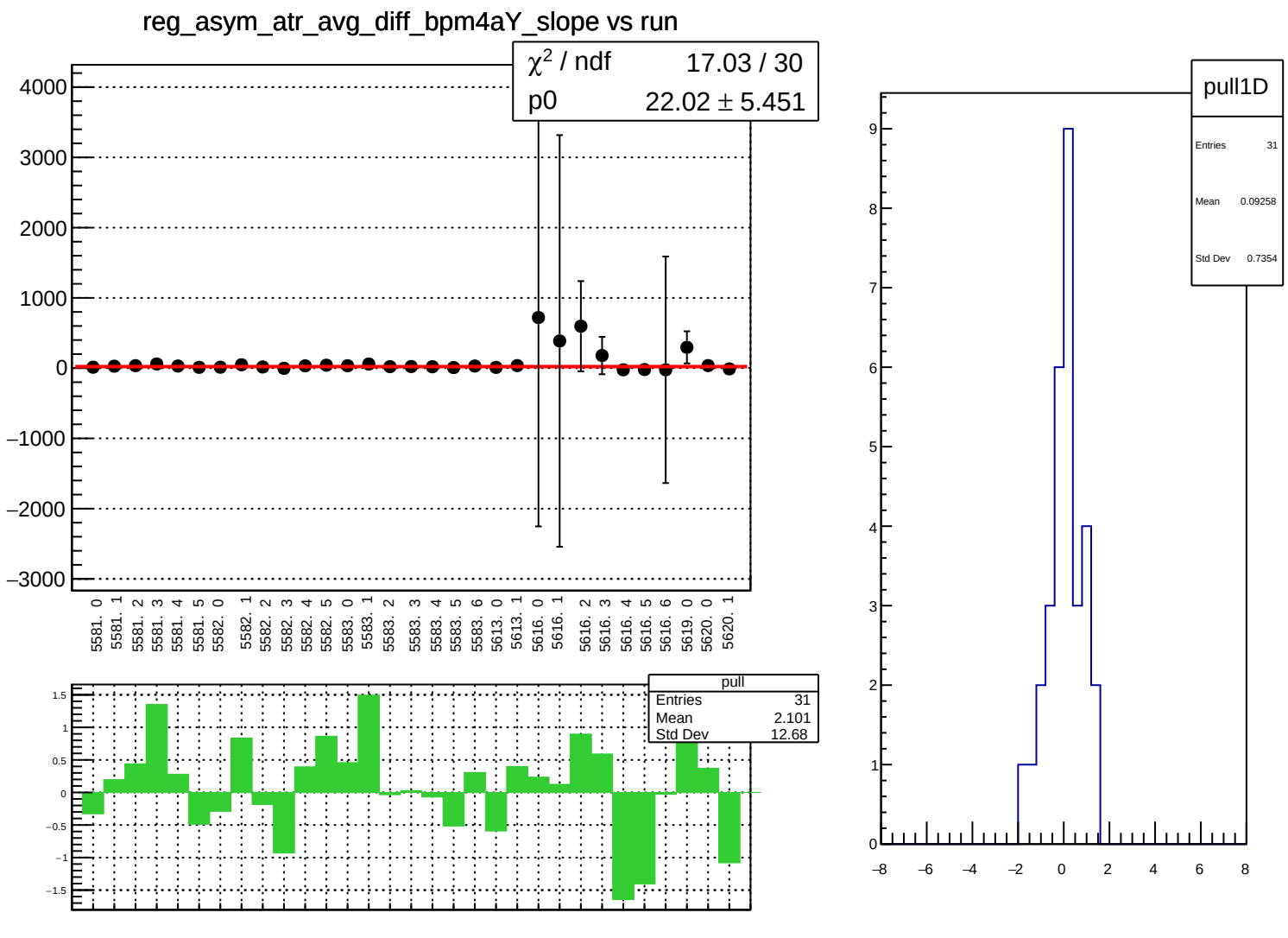

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.65 / 30
p0 −26.91± 8.09
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −8.518
Std Dev 26.59
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

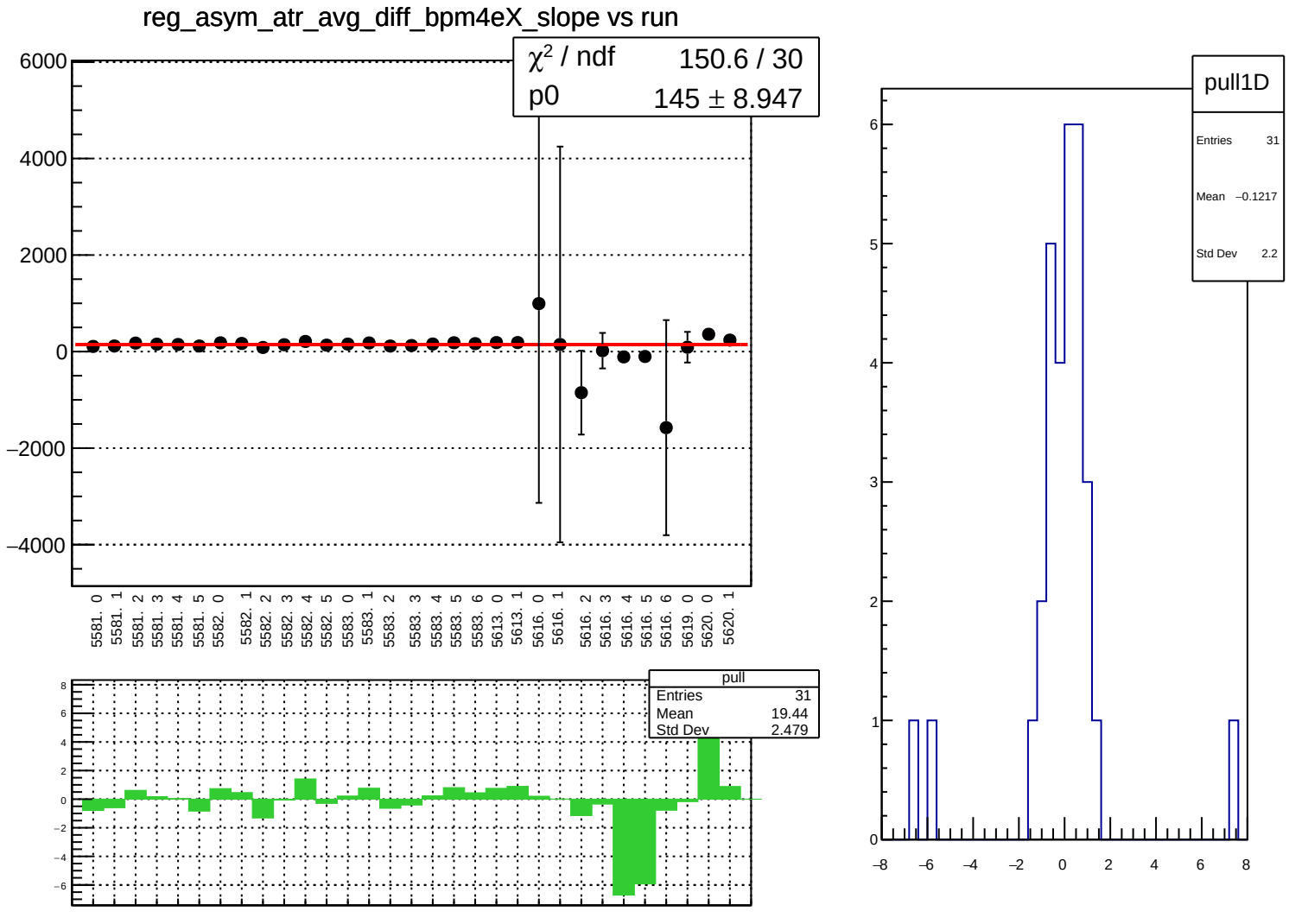

pull1D
Entries 31
Mean −0.1169
Std Dev 0.9198
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

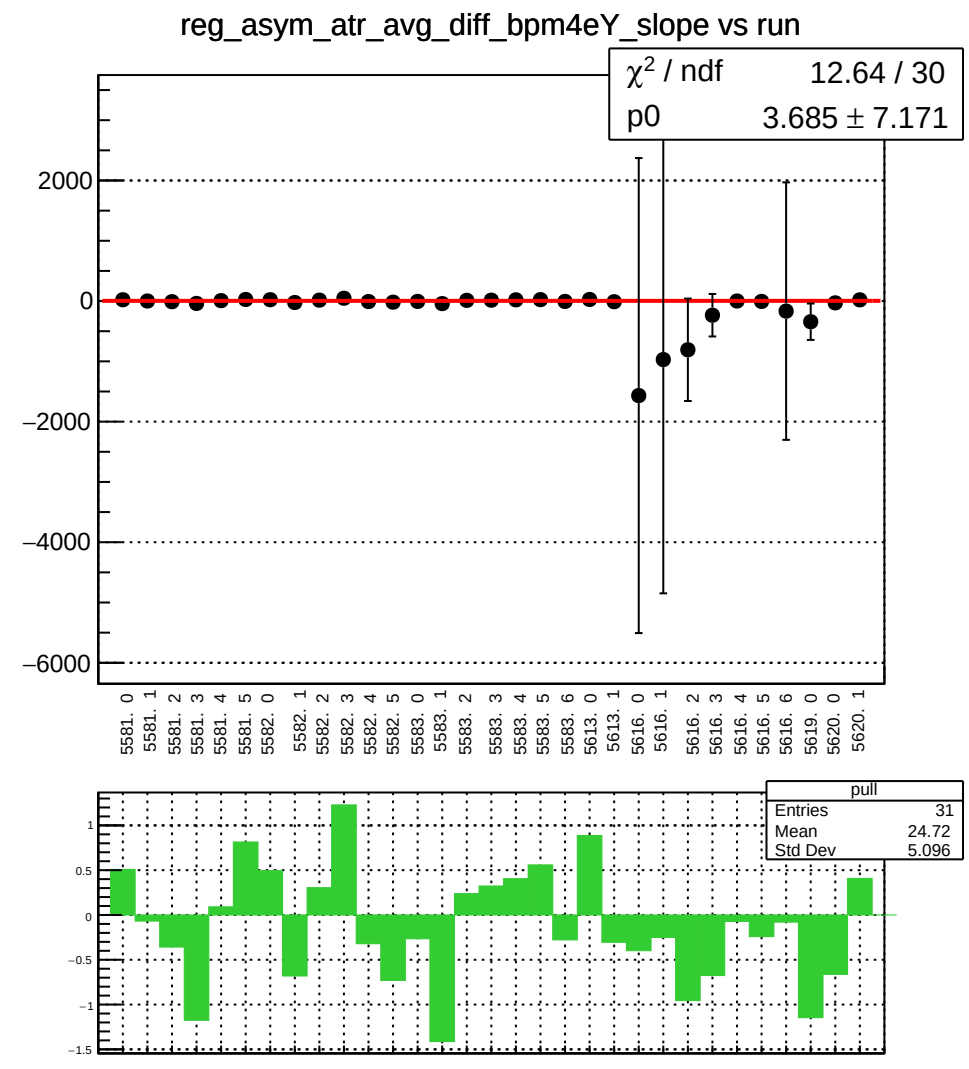

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.29 / 30
p0 −15.48 ± 6.57
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −7.835
Std Dev 29.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.06063
Std Dev 0.9867
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

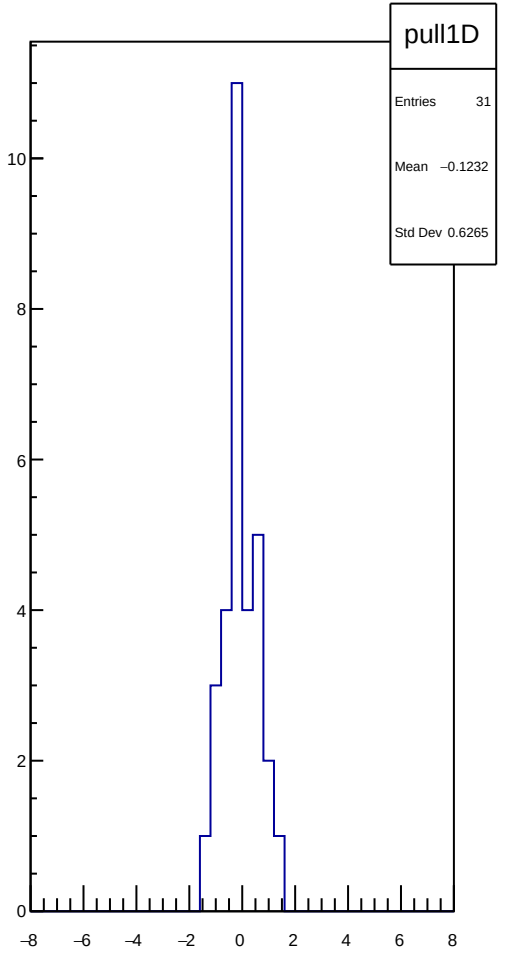

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 3.925e+04 / 30
p0 30.33 ± 0.1964
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −2.162
Std Dev 16.62
40
20
0
−20
−40
−60
pull1D
Entries 31
Mean 0.2265
Std Dev 0.8762
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

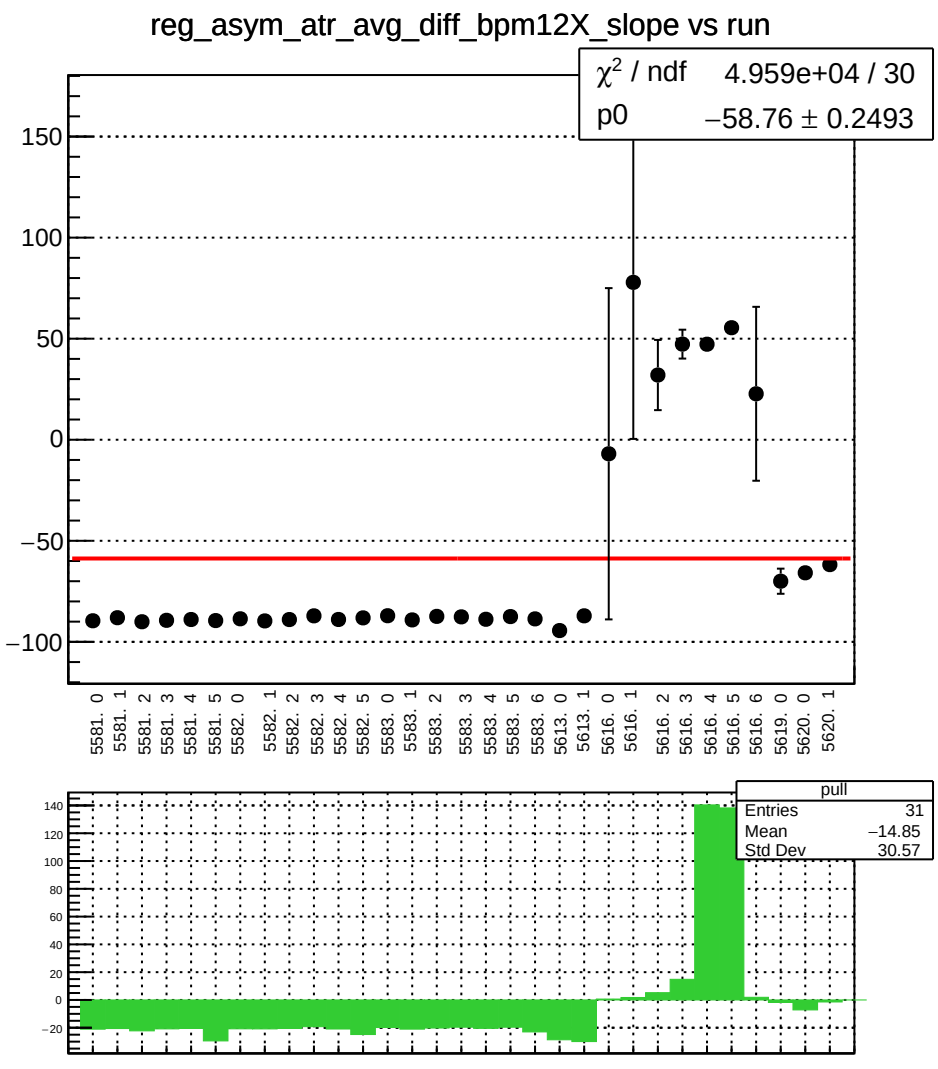

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 126 / 30
p0 −108.3 ± 9.2
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 4.566
Std Dev 11.75
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 31
Mean 0.1214
Std Dev 2.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

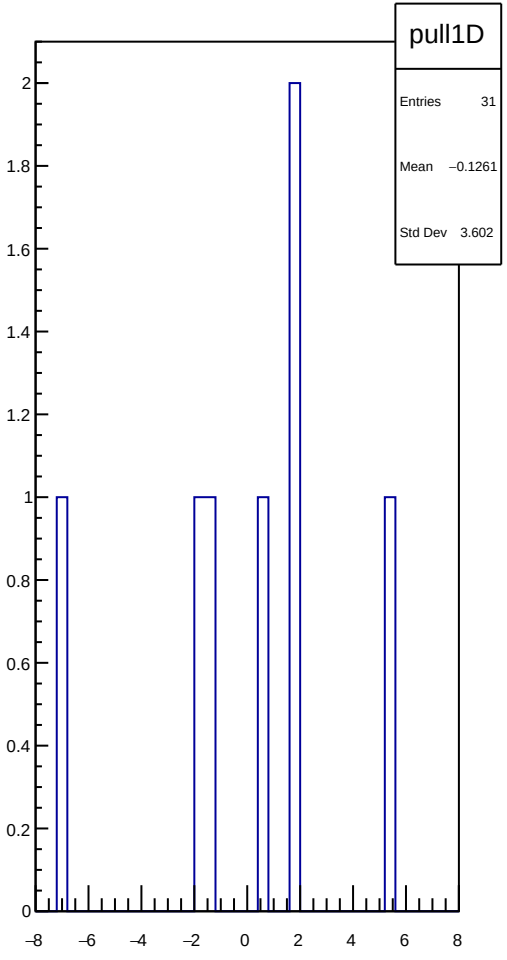

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.03 / 30
p0 22.02 ± 5.451
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 2.101
Std Dev 12.68
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.09258
Std Dev 0.7354
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

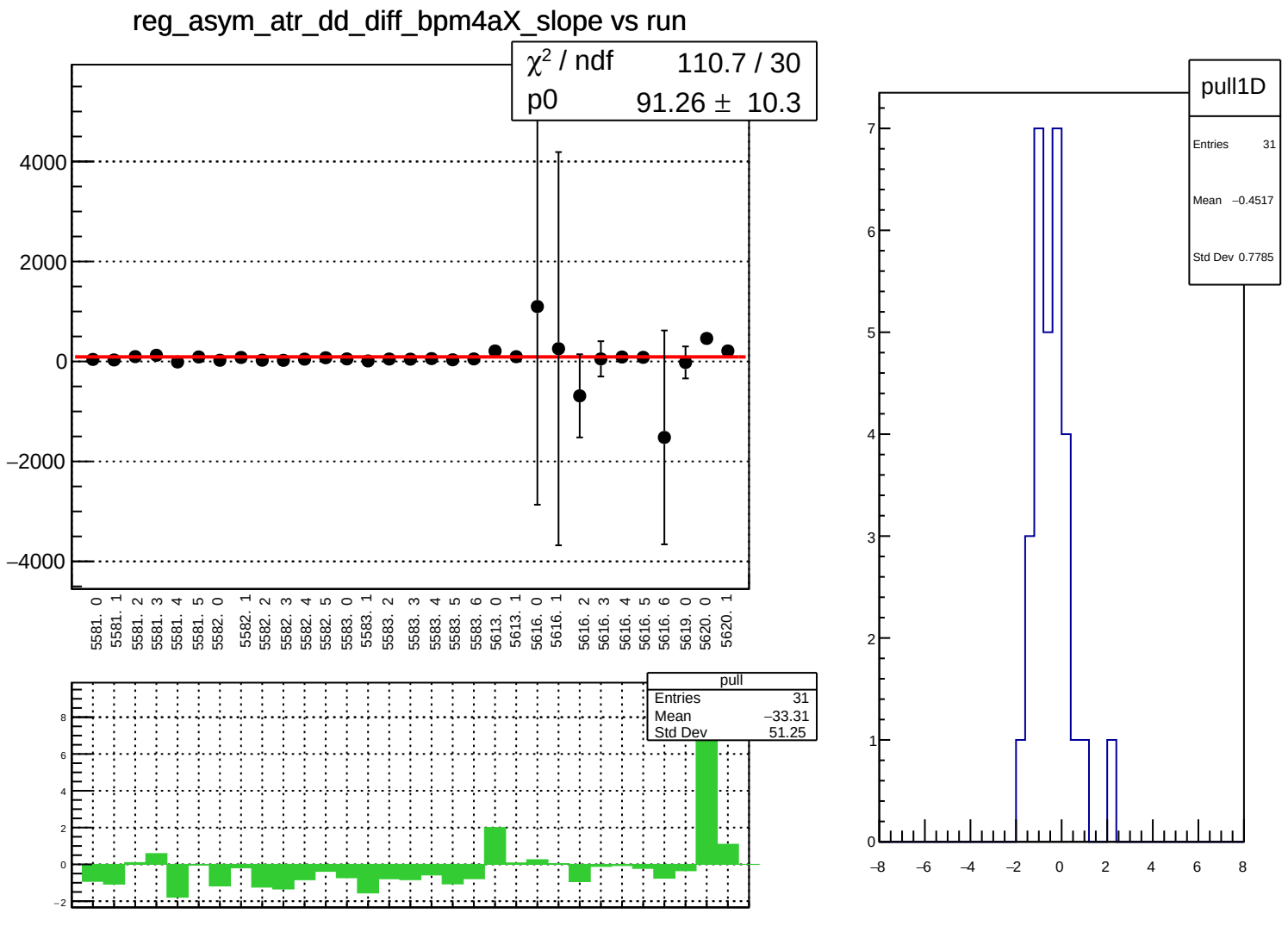

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 150.6 / 30
p0 145 ± 8.947
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 19.44
Std Dev 2.479
pull1D
Entries 31
Mean −0.1217
Std Dev 2.2

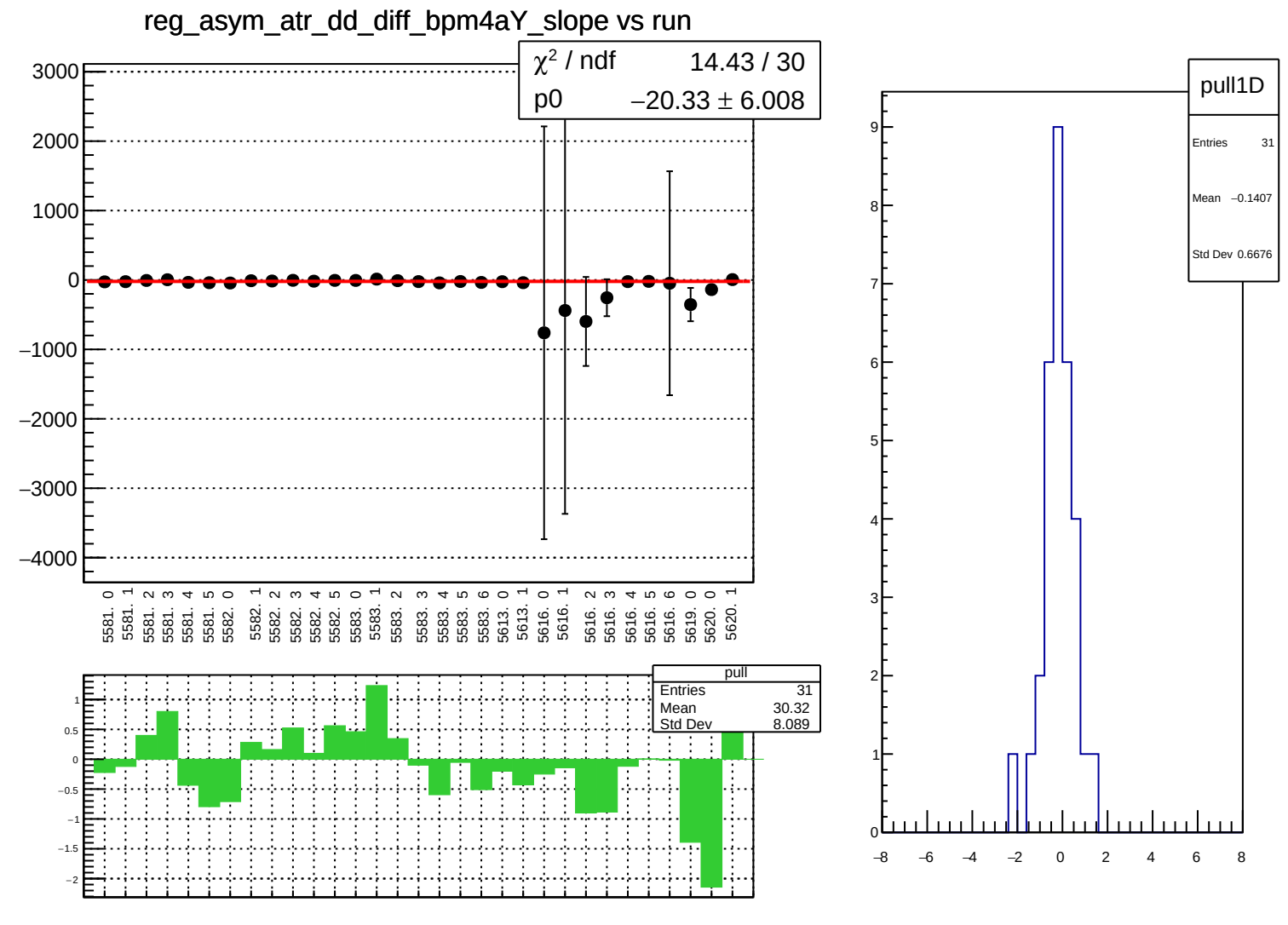

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.64 / 30
p0 3.685 ± 7.171
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.72
Std Dev 5.096
1
0.5
0
−0.5
−1
−1.5

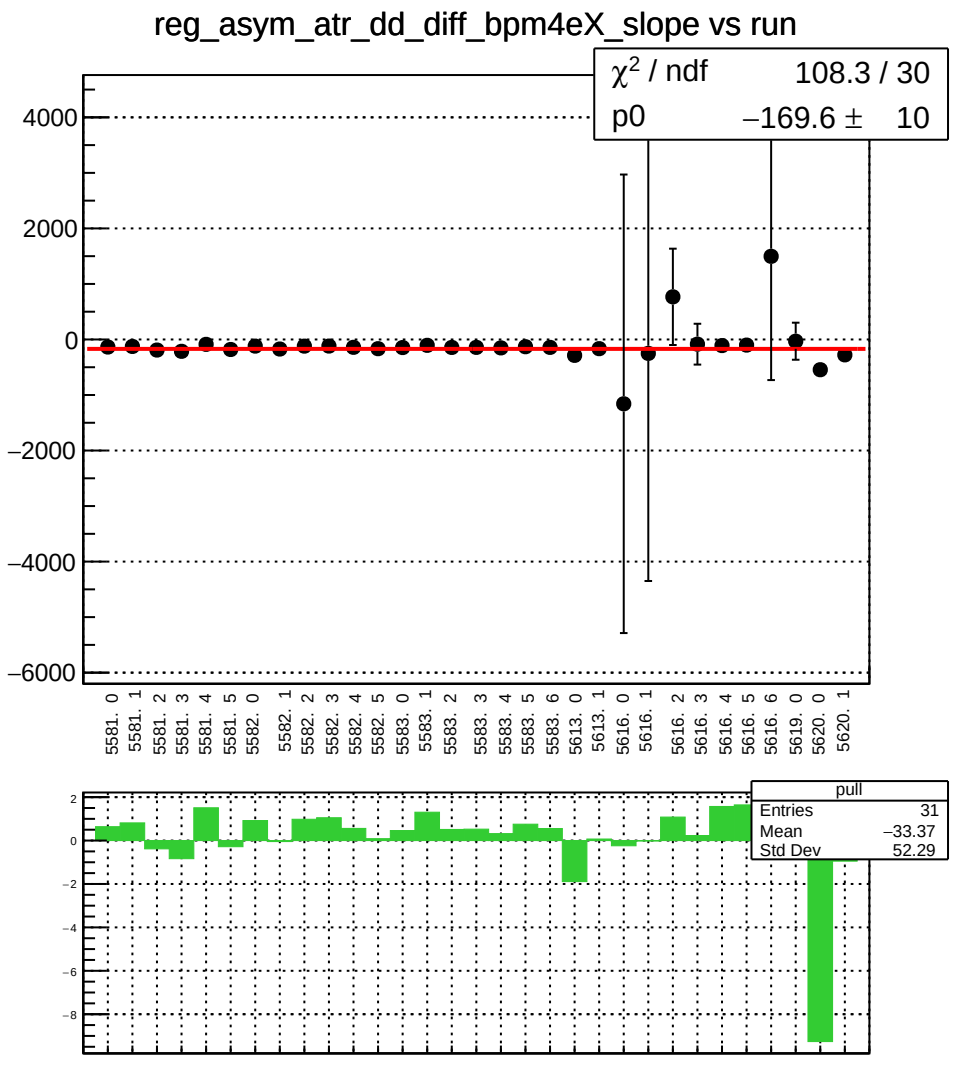

pull1D
Entries 31
Mean −0.1232
Std Dev 0.6265
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

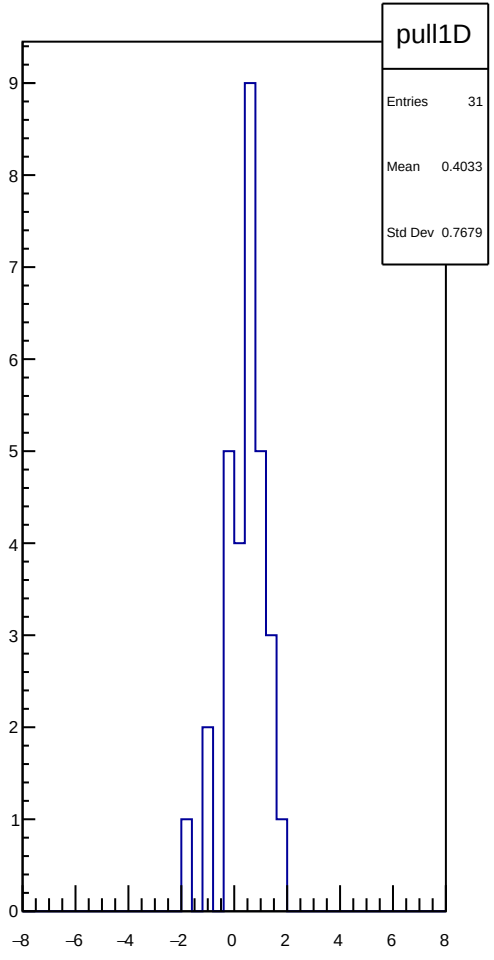

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 4.959e+04 / 30
p0 −58.76 ± 0.2493
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −14.85
Std Dev 30.57
140
120
100
80
60
40
20
0
−20

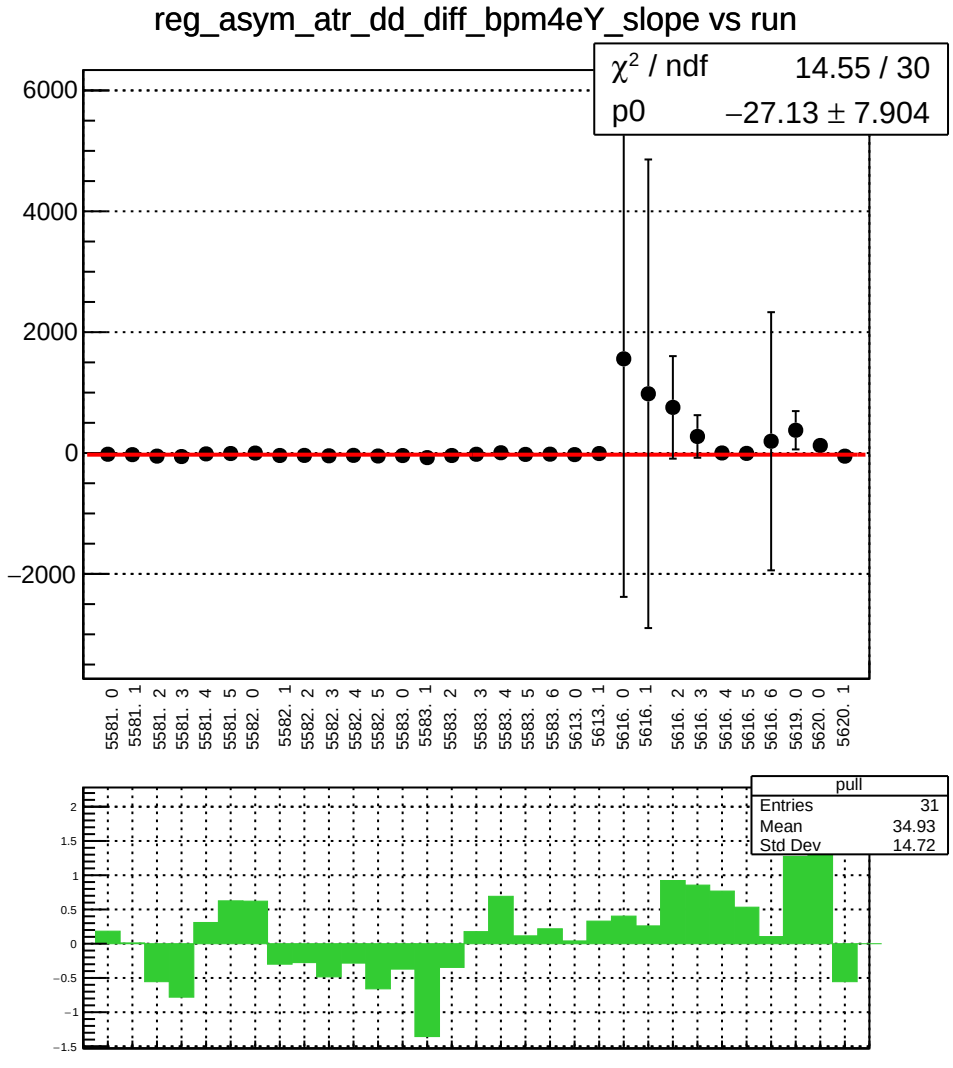

pull1D
Entries 31
Mean −0.1261
Std Dev 3.602
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

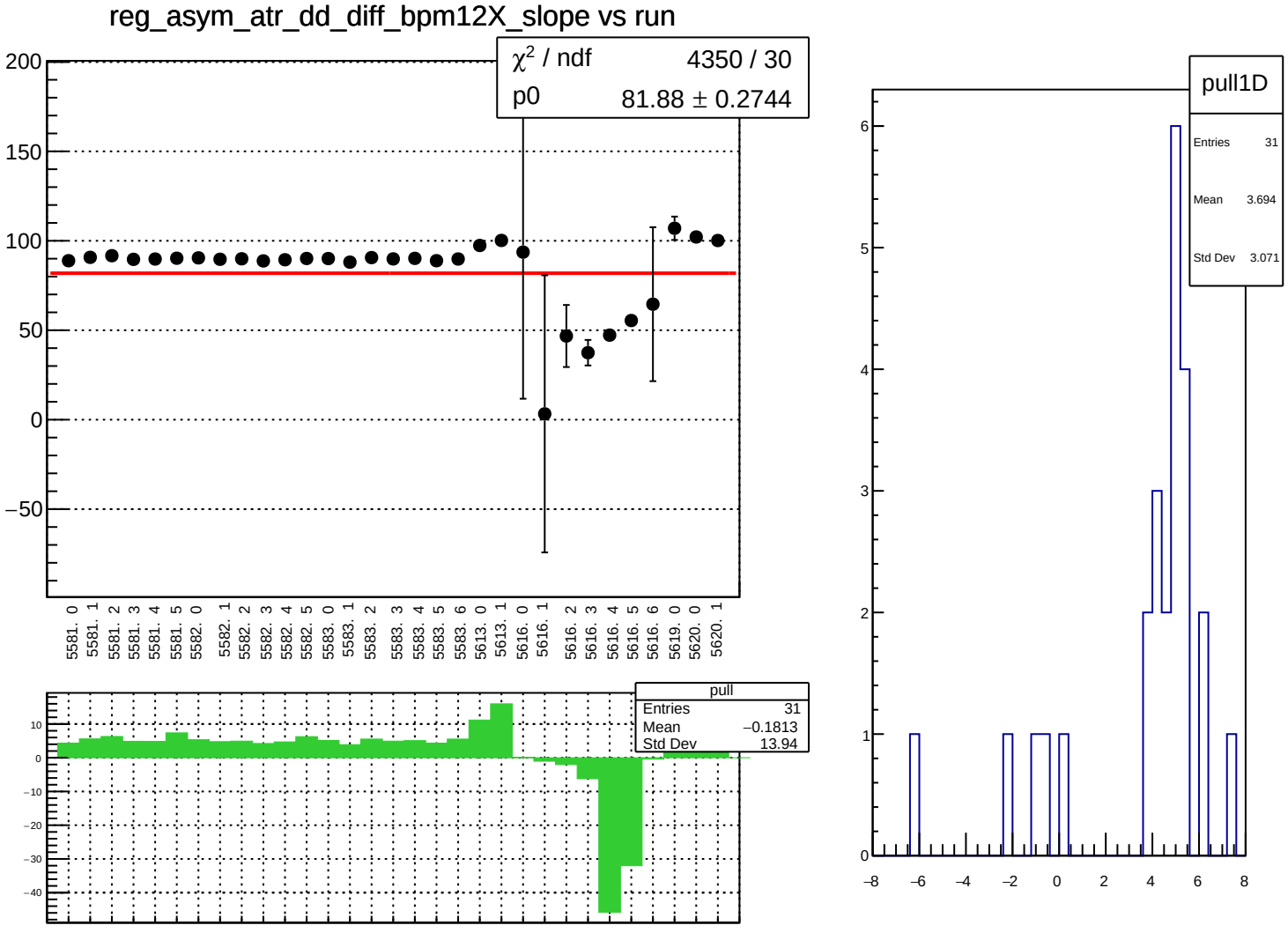

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 110.7 / 30
p0 91.26 ± 10.3
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −33.31
Std Dev 51.25
8
6
4
2
0
−2
pull1D
Entries 31
Mean −0.4517
Std Dev 0.7785
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

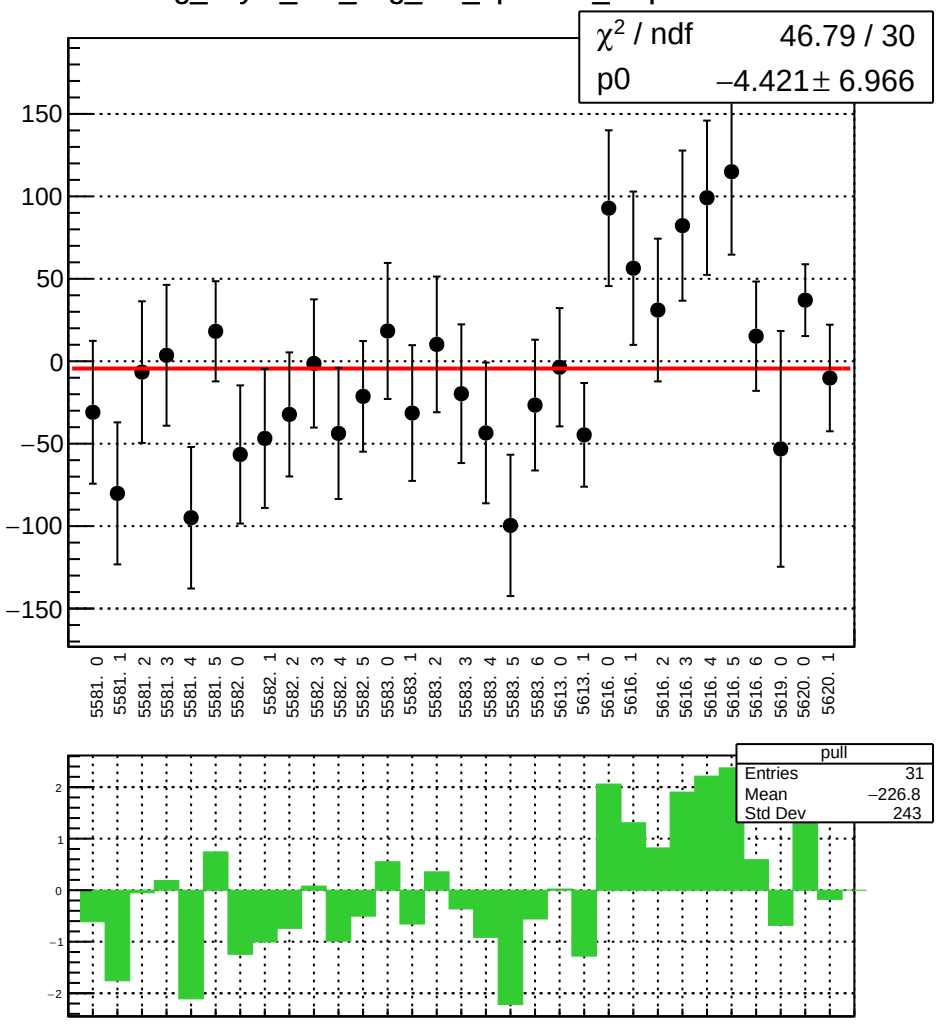

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.43 / 30
p0 −20.33 ± 6.008
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.32
Std Dev 8.089
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.1407
Std Dev 0.6676
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

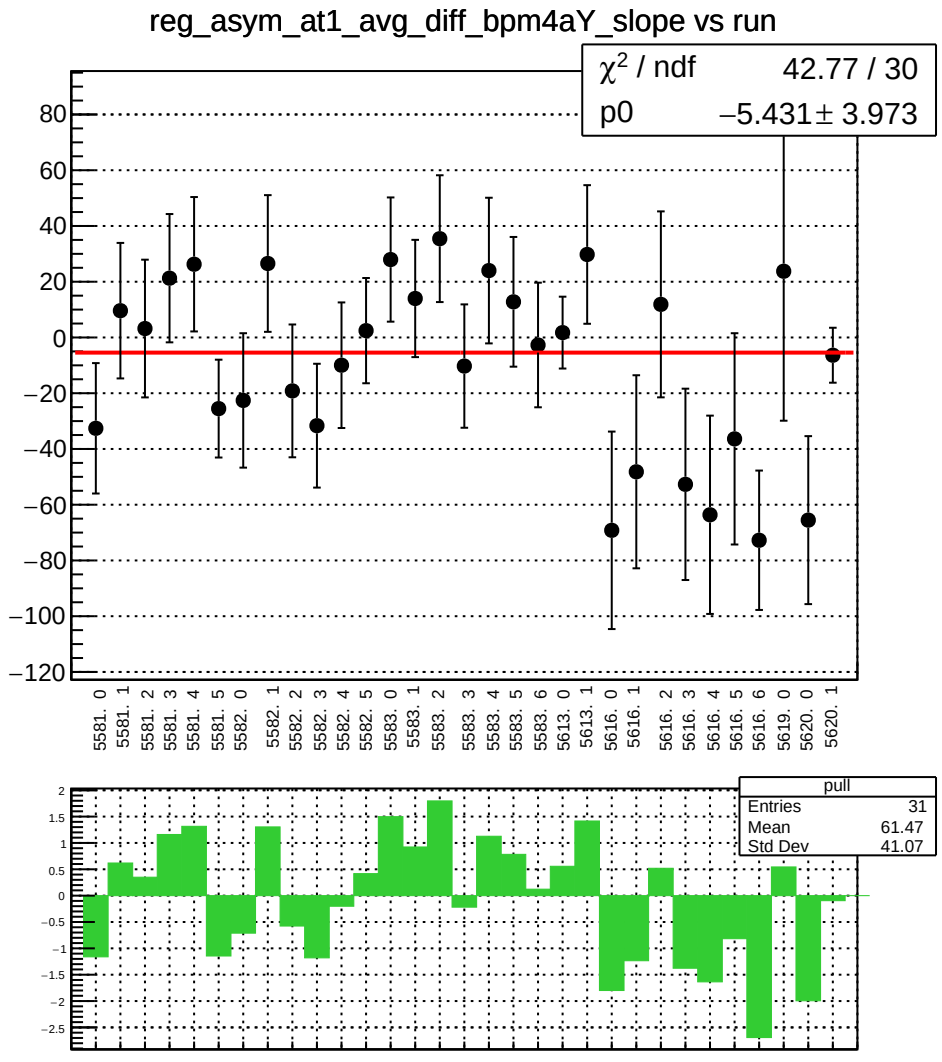

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 108.3 / 30
p0 −169.6 ± 10
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −33.37
Std Dev 52.29
2
0
−2
−4
−6
−8

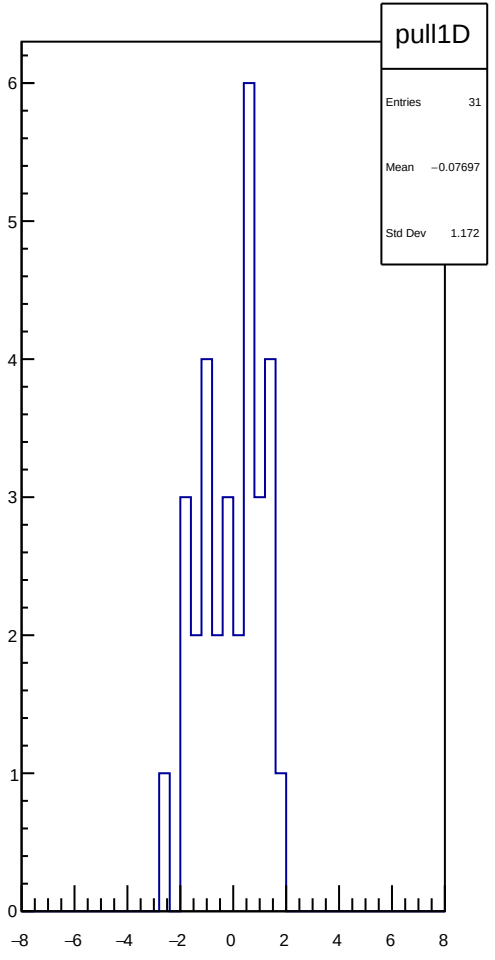

pull1D
Entries 31
Mean 0.4033
Std Dev 0.7679
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

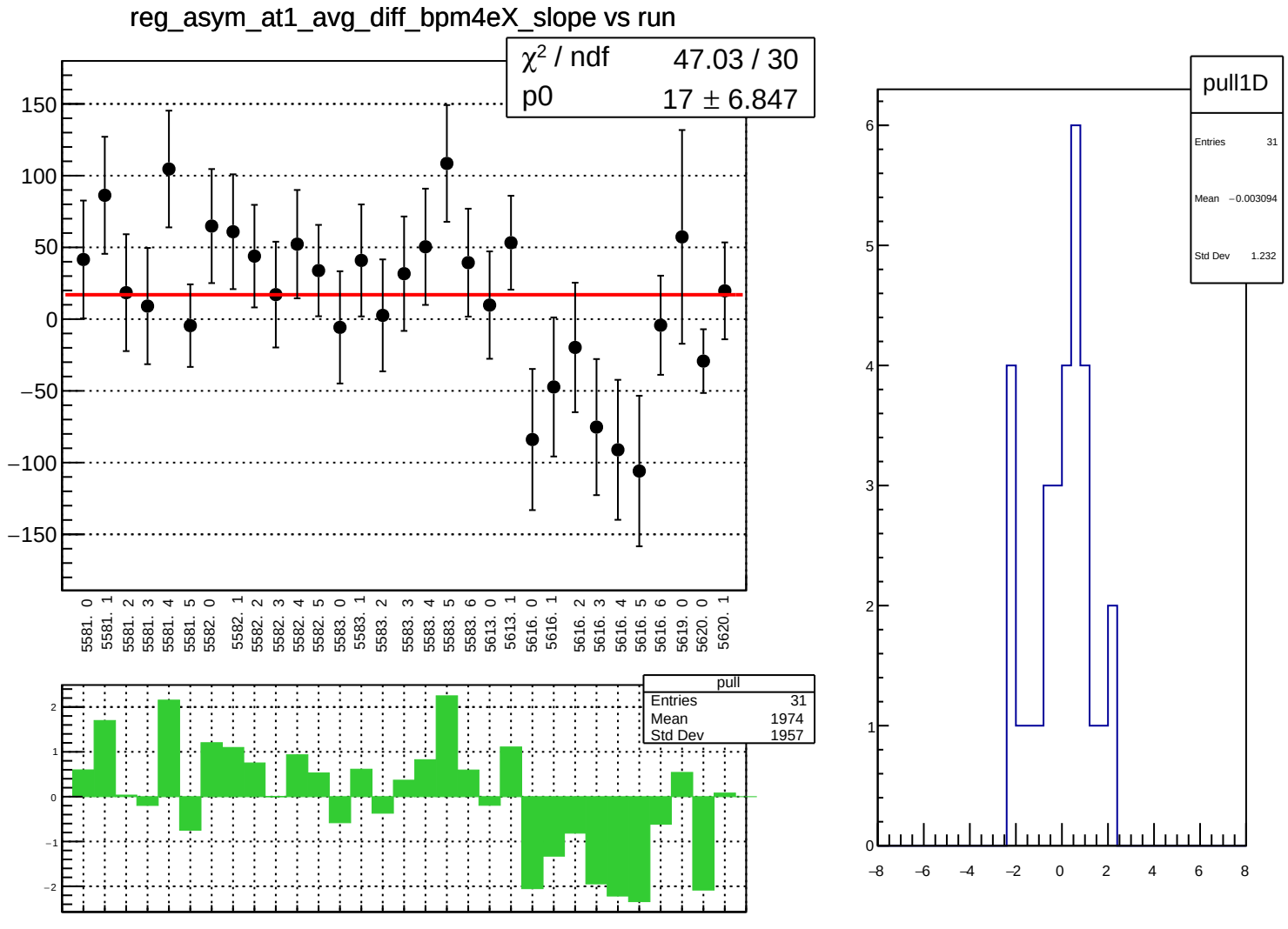

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.55 / 30
p0 −27.13 ± 7.904
6000
4000
2000
0
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 34.93
Std Dev 14.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.1477
Std Dev 0.6689
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

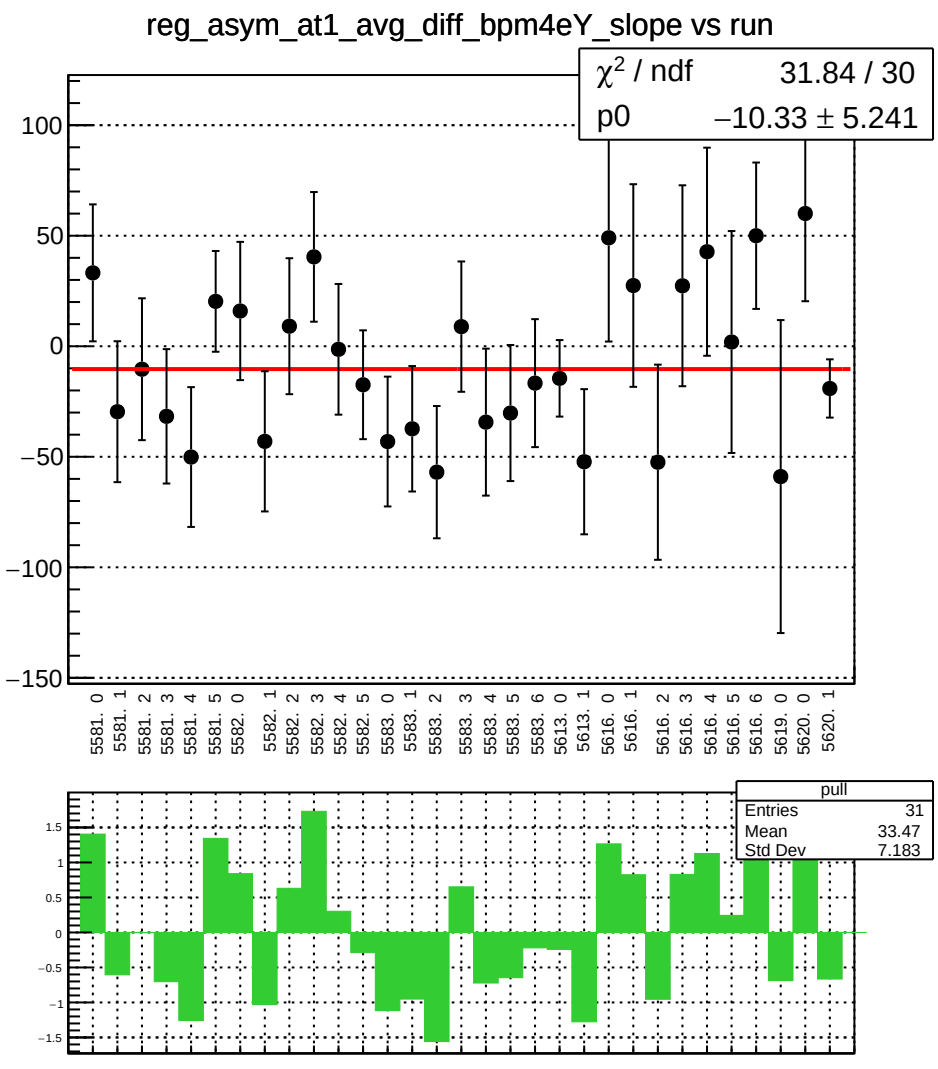

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 4350 / 30
p0 81.88 ± 0.2744
200
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −0.1813
Std Dev 13.94
10
0
−10
−20
−30
−40
pull1D
Entries 31
Mean 3.694
Std Dev 3.071
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

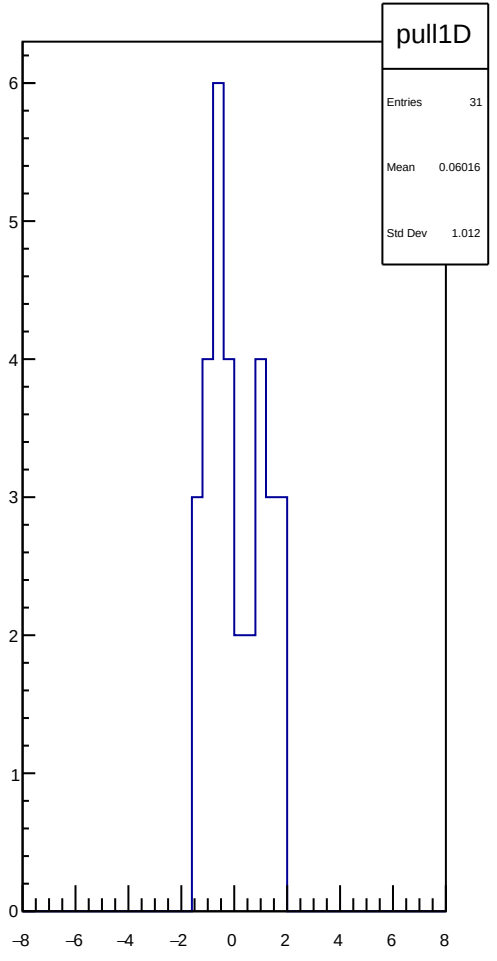

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.79 / 30
p0 −4.421 ± 6.966
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −226.8
Std Dev 243
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.02402
Std Dev 1.228
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

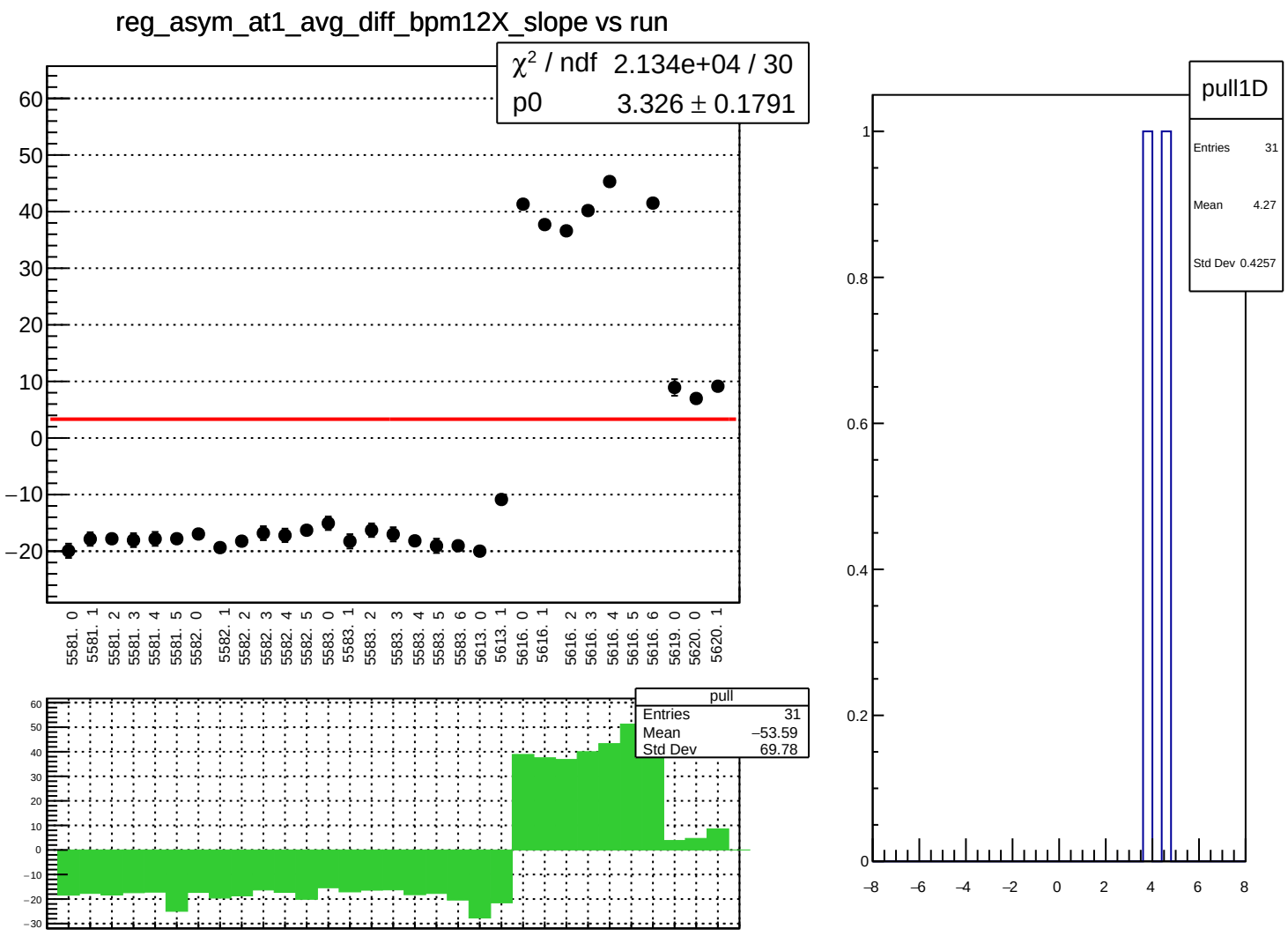

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.77 / 30
p0 −5.431 ± 3.973
pull
Entries 31
Mean 61.47
Std Dev 41.07

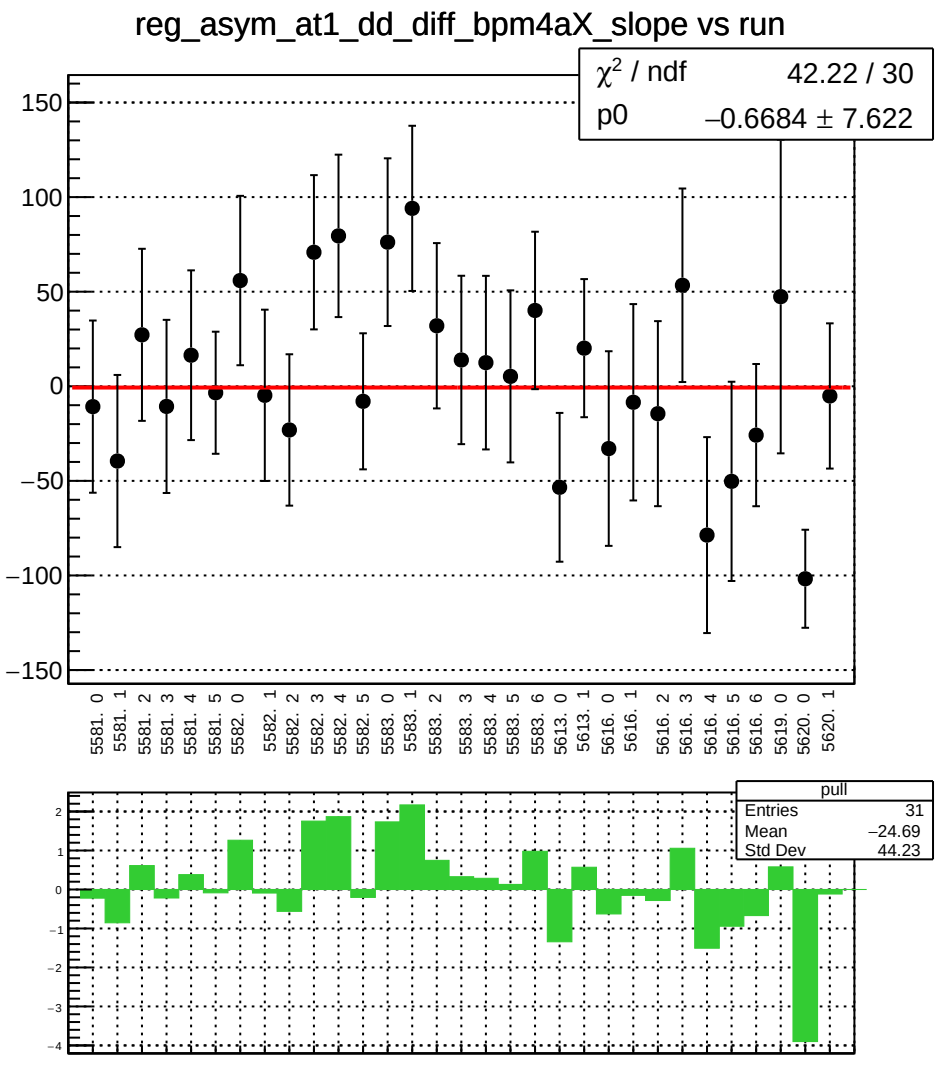

pull1D
Entries 31
Mean −0.07697
Std Dev 1.172

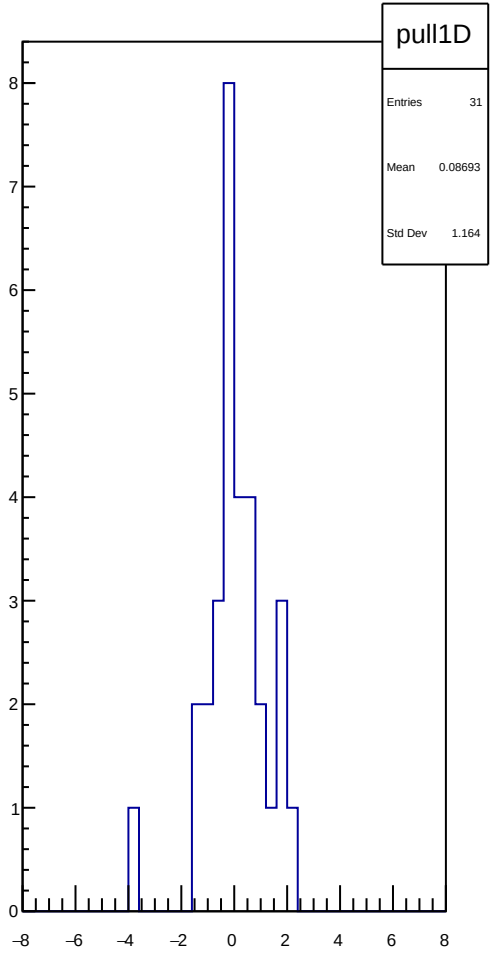

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.03 / 30
p0 17 ± 6.847
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 1974
Std Dev 1957
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.003094
Std Dev 1.232
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

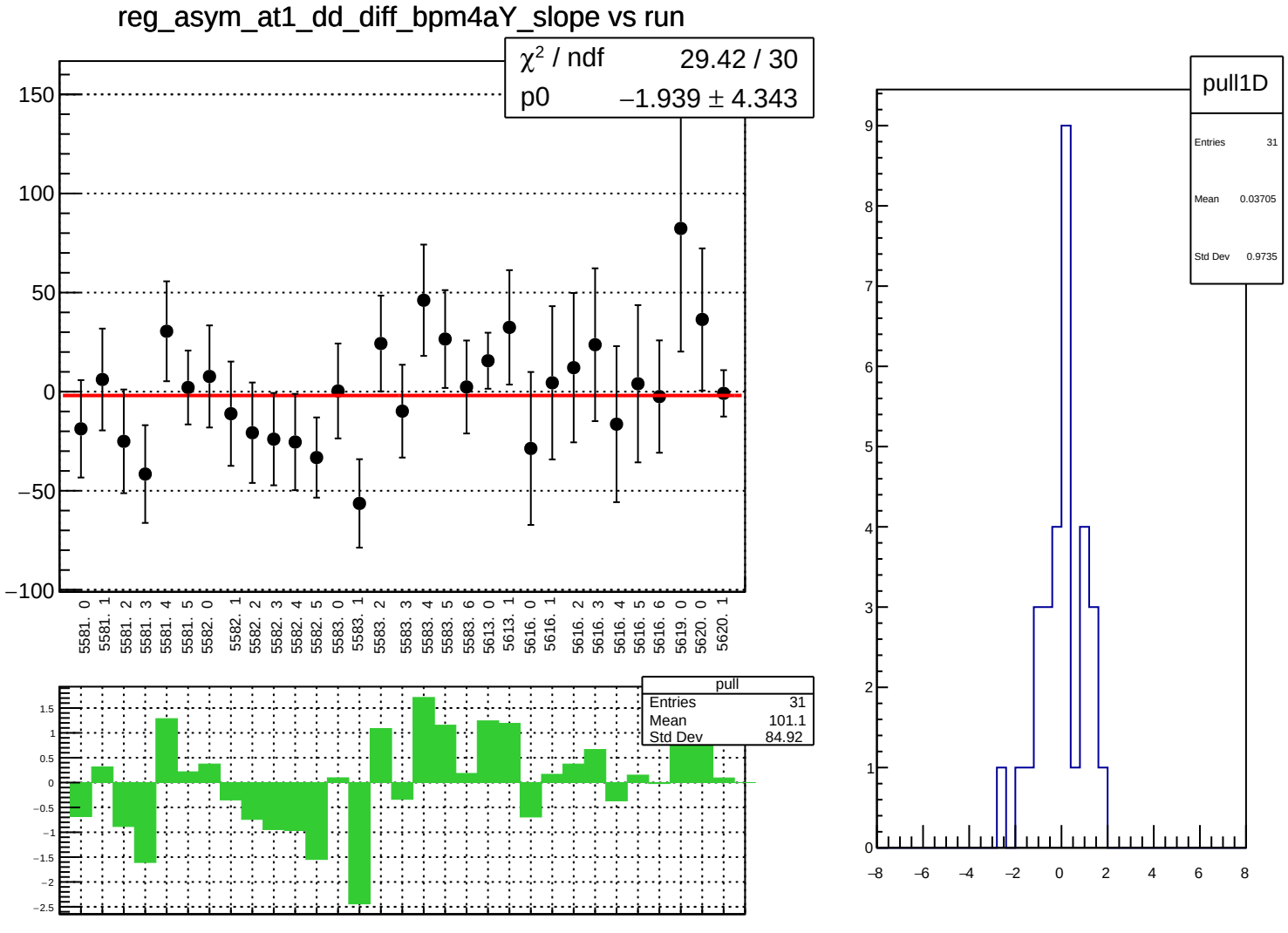

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.84 / 30
p0 −10.33 ± 5.241
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.47
Std Dev 7.183
1.5
1
0.5
0
−0.5
−1
−1.5

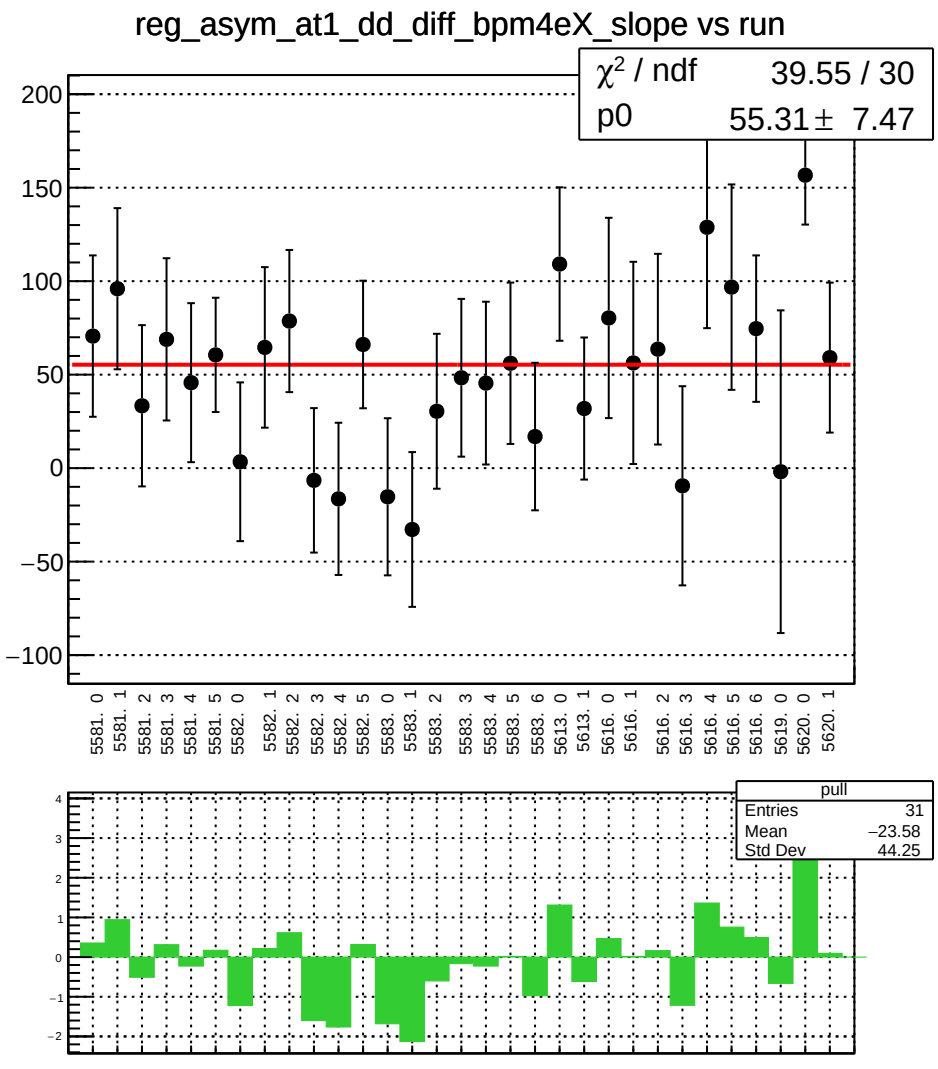

pull1D
Entries 31
Mean 0.06016
Std Dev 1.012
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

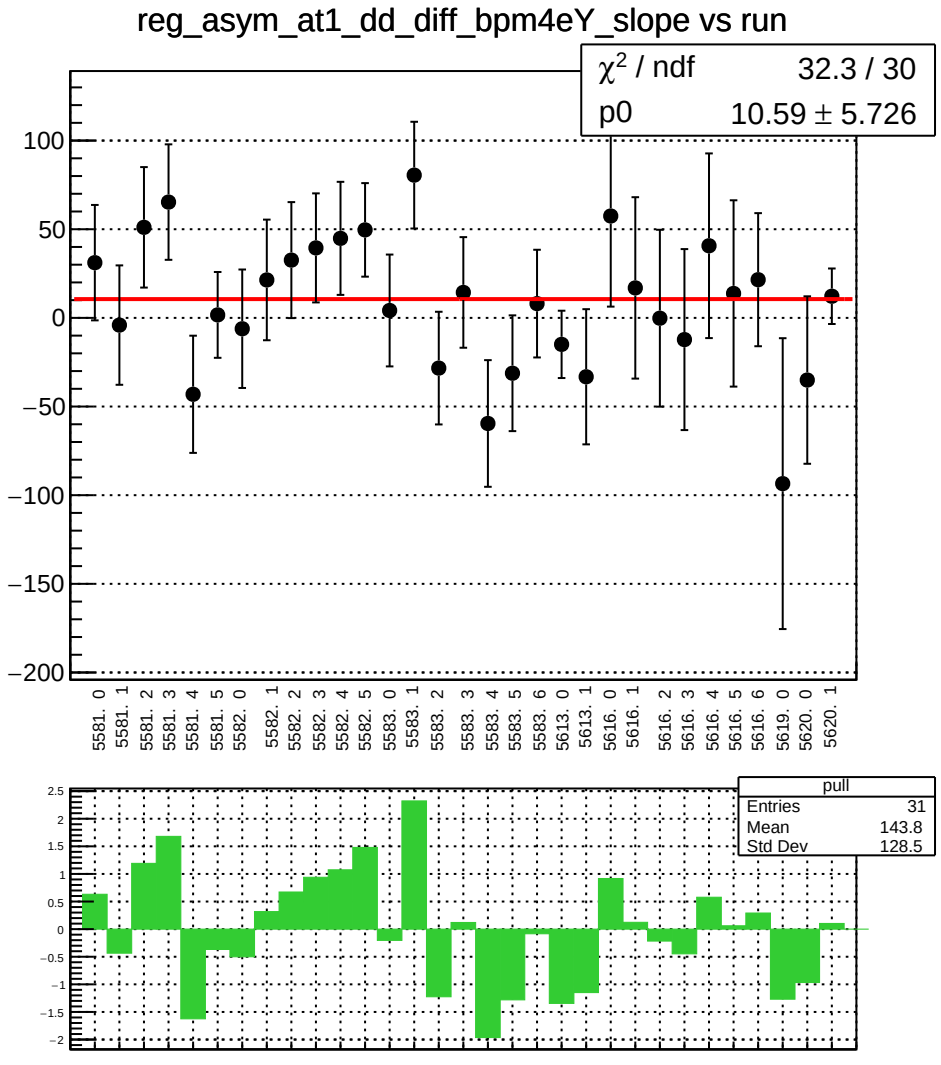

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 2.134e+04 / 30
p0 3.326 ± 0.1791
60
50
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −53.59
Std Dev 69.78
pull1D
Entries 31
Mean 4.27
Std Dev 0.4257
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

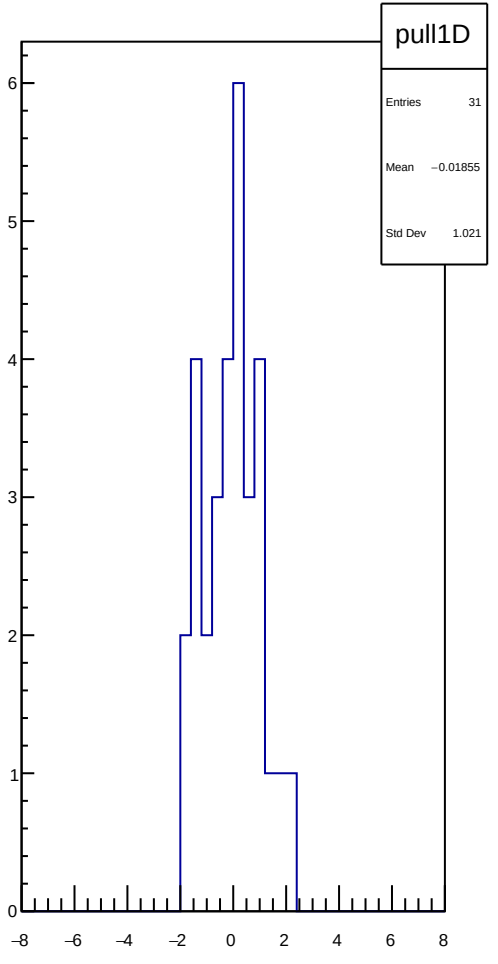

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.22 / 30
p0 −0.6684 ± 7.622
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −24.69
Std Dev 44.23
2
1
0
−1
−2
−3
−4

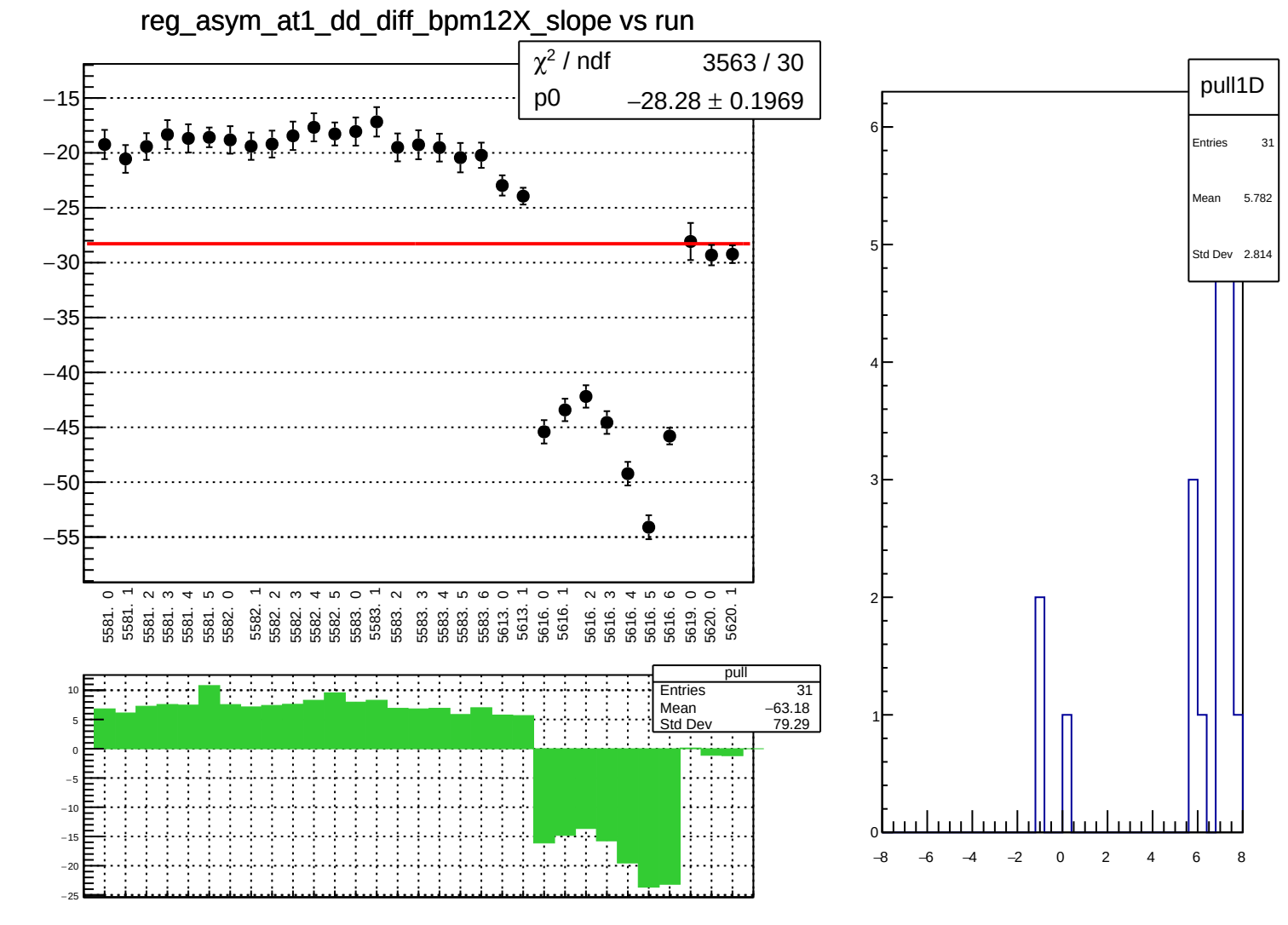

pull1D
Entries 31
Mean 0.08693
Std Dev 1.164
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

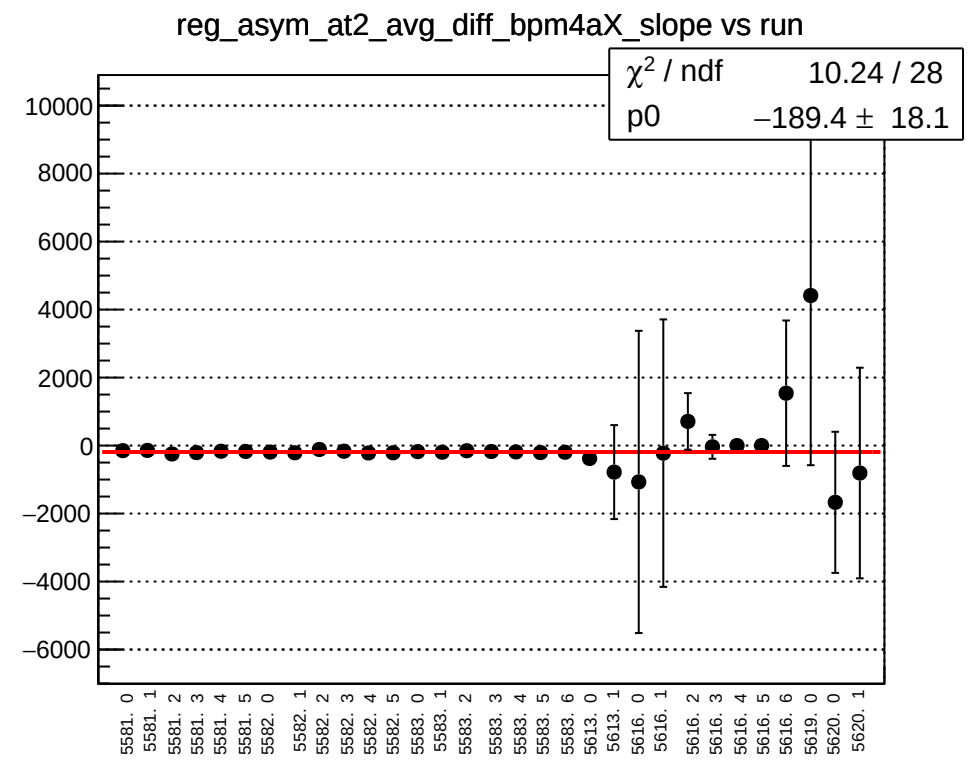

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.42 / 30
p0 −1.939 ± 4.343
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 101.1
Std Dev 84.92
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.03705
Std Dev 0.9735
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

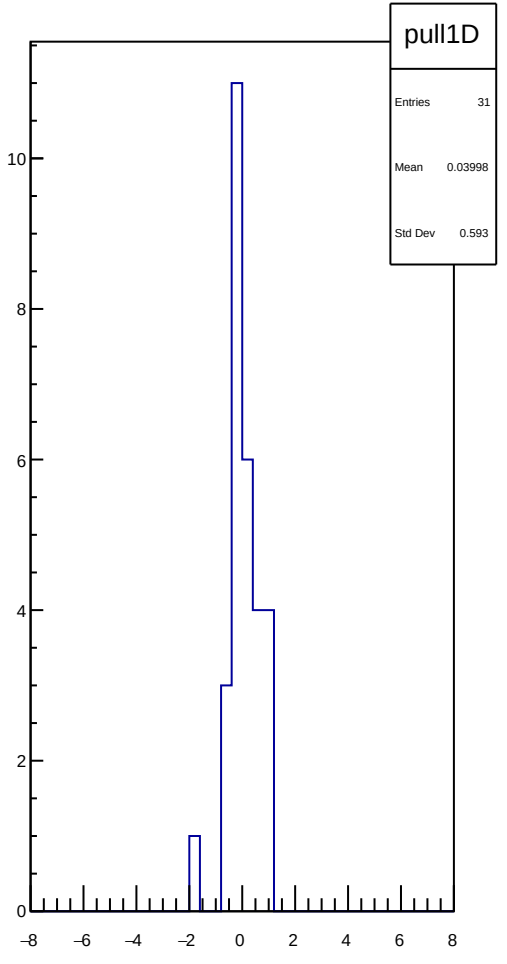

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.55 / 30
p0 55.31 ± 7.47
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −23.58
Std Dev 44.25
4
3
2
1
0
−1
−2
pull1D
Entries 31
Mean −0.06918
Std Dev 1.127
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

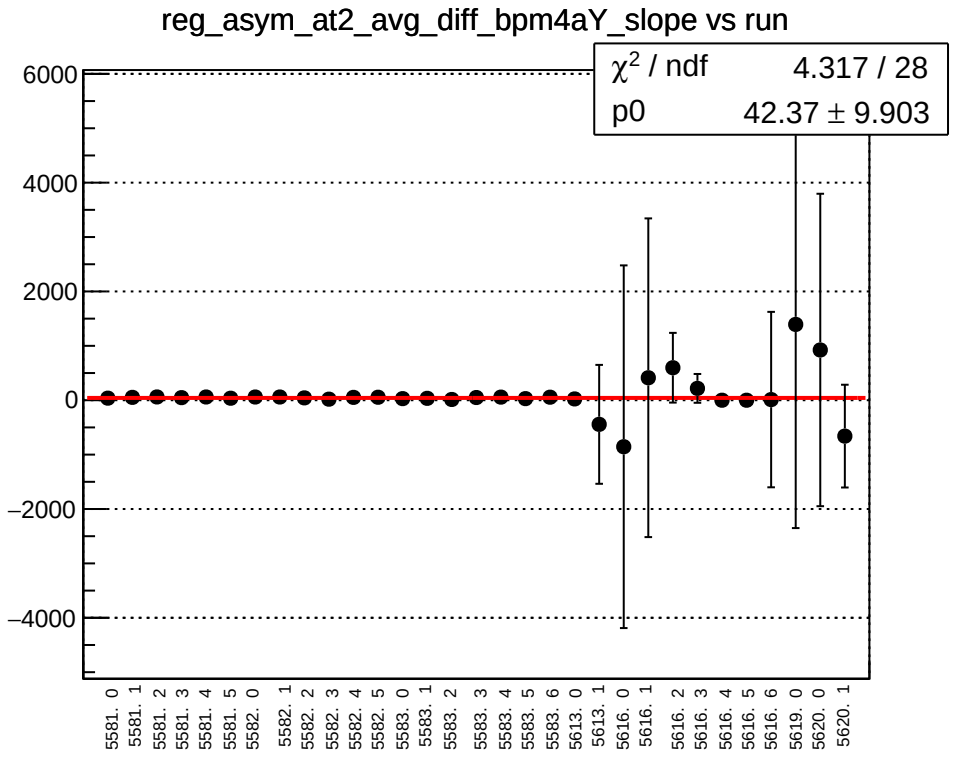

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.3 / 30
p0 10.59 ± 5.726
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 143.8
Std Dev 128.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

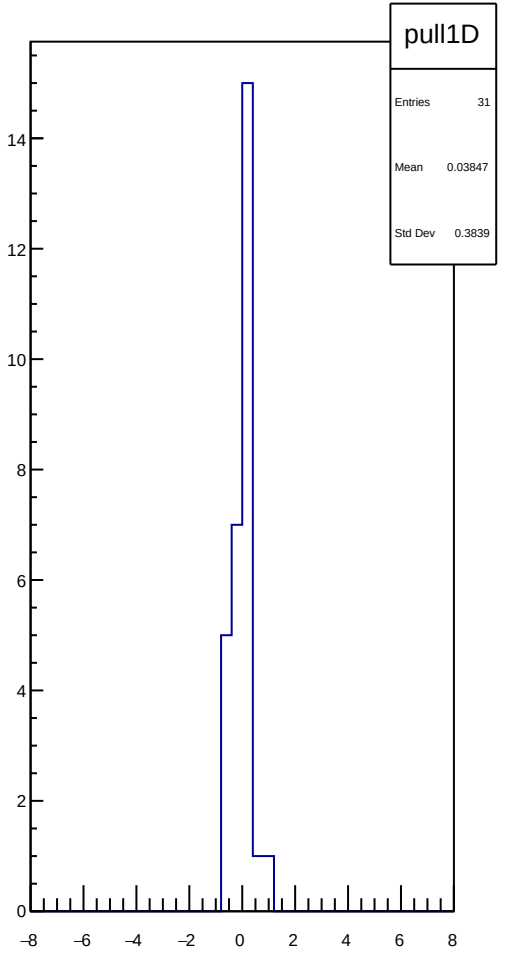

pull1D
Entries 31
Mean −0.01855
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

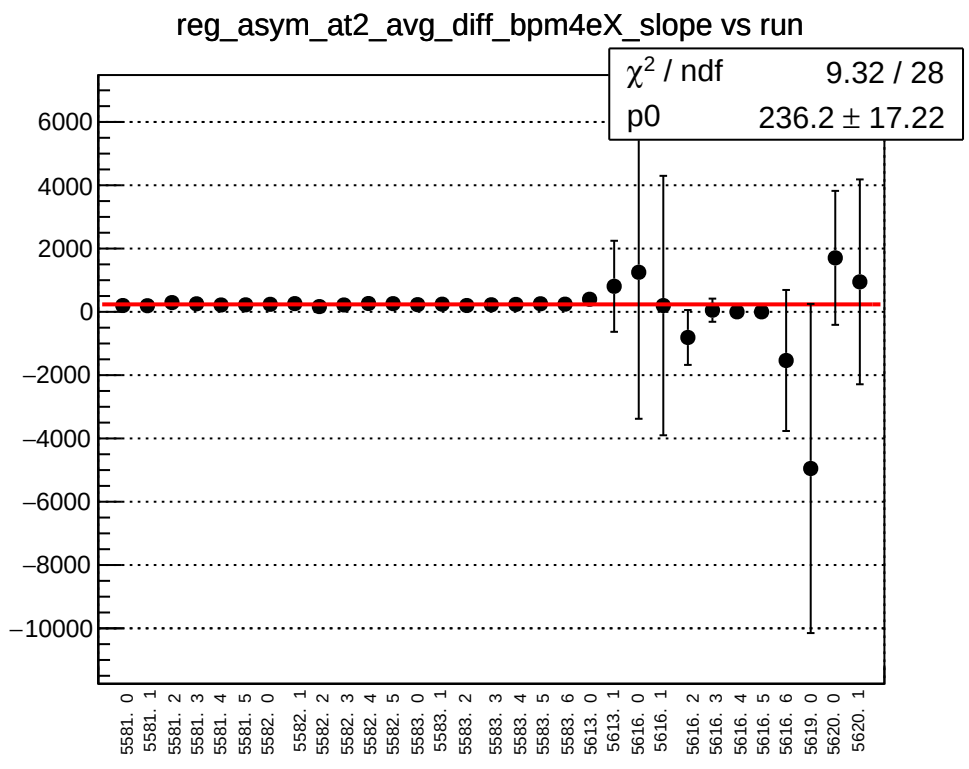

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 3563 / 30
p0 −28.28 ± 0.1969
pull
Entries 31
Mean −63.18
Std Dev 79.29
pull1D
Entries 31
Mean 5.782
Std Dev 2.814

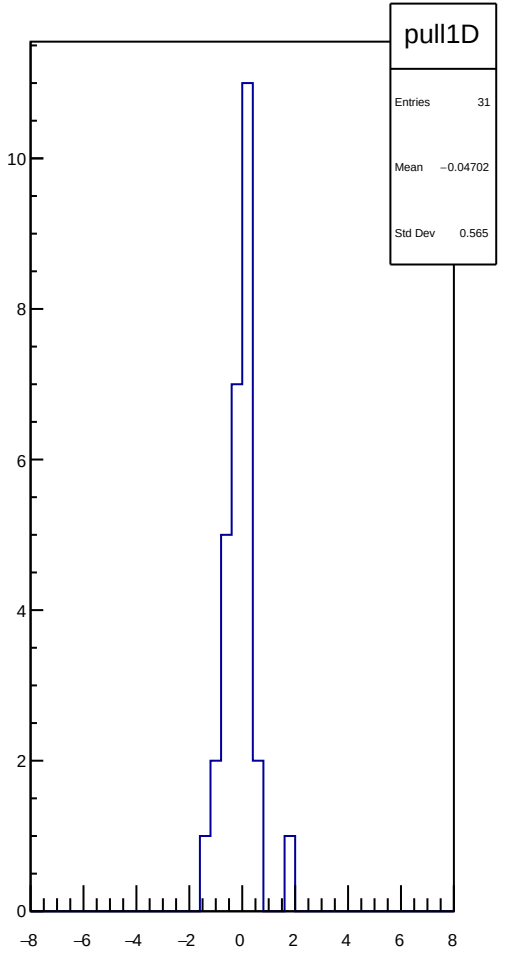

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.24 / 28
p0 −189.4 ± 18.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

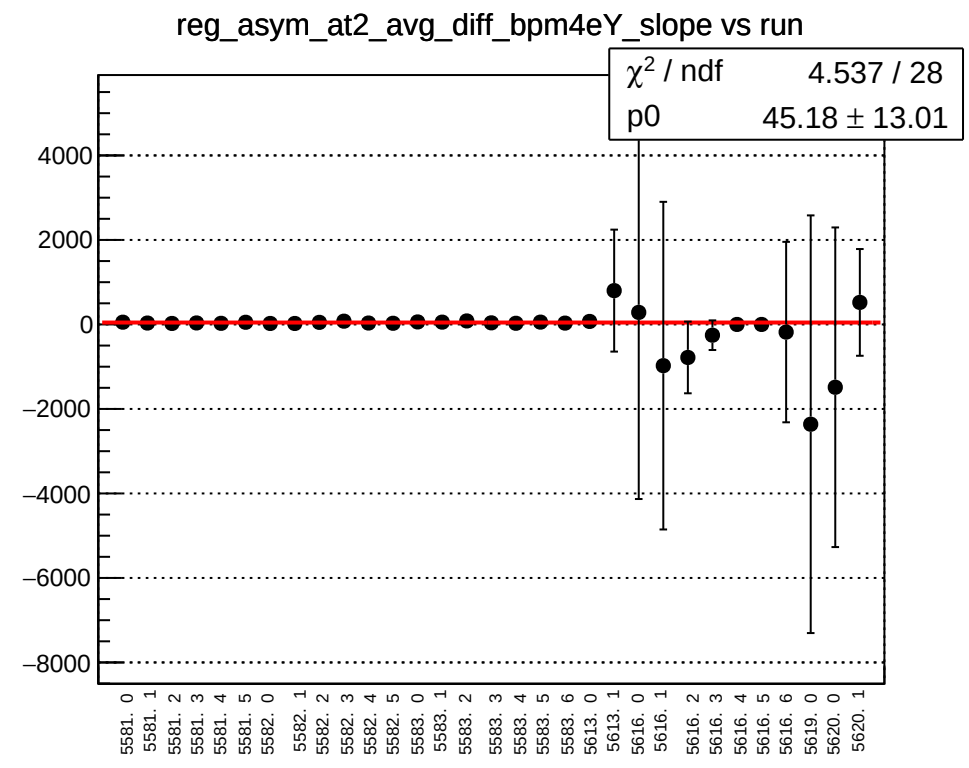

pull1D
Entries 31
Mean 0.03998
Std Dev 0.593
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

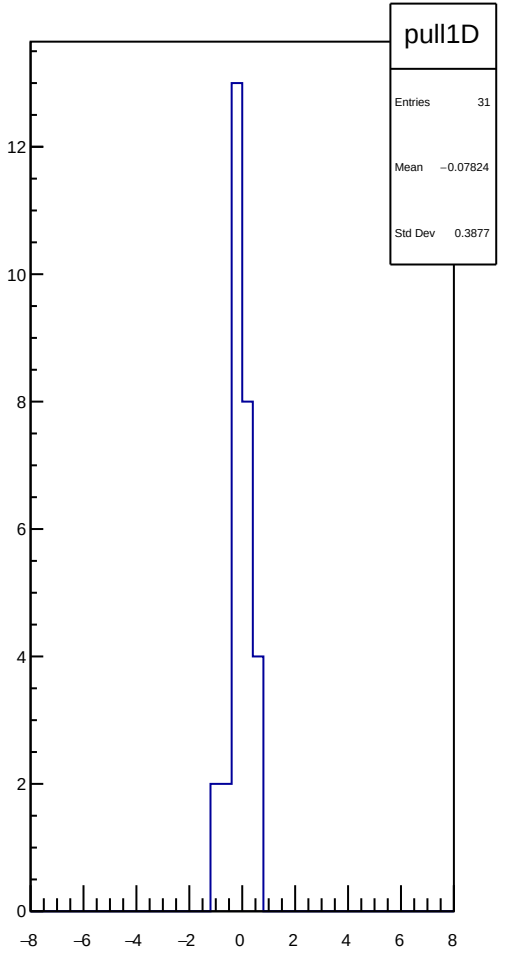

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.317 / 28
p0 42.37 ± 9.903
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

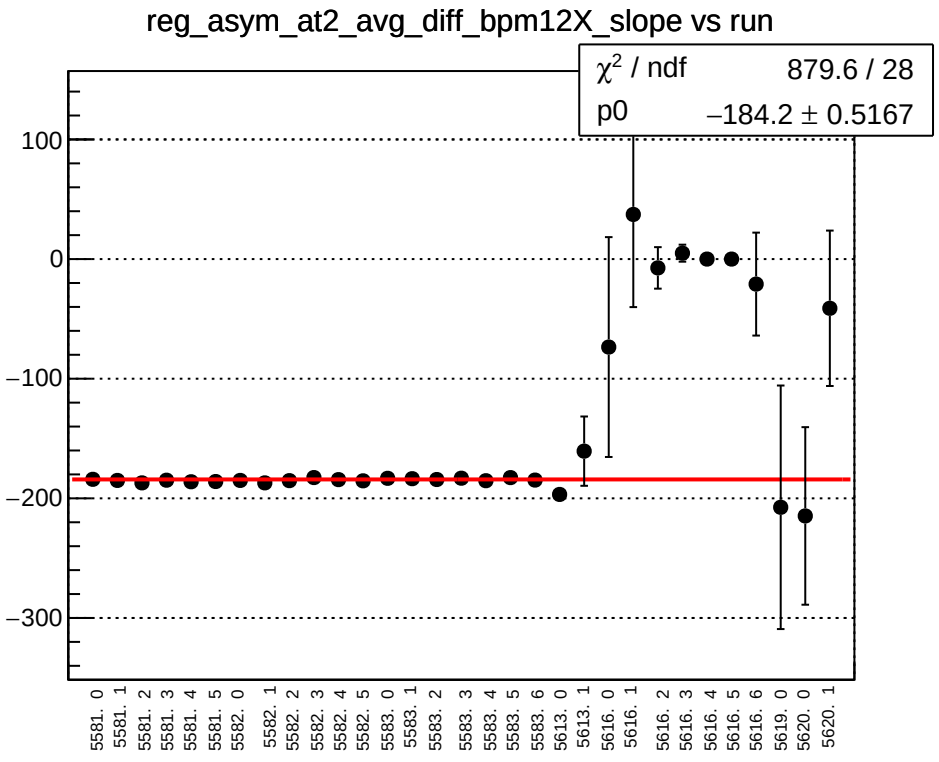

pull1D
Entries 31
Mean 0.03847
Std Dev 0.3839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

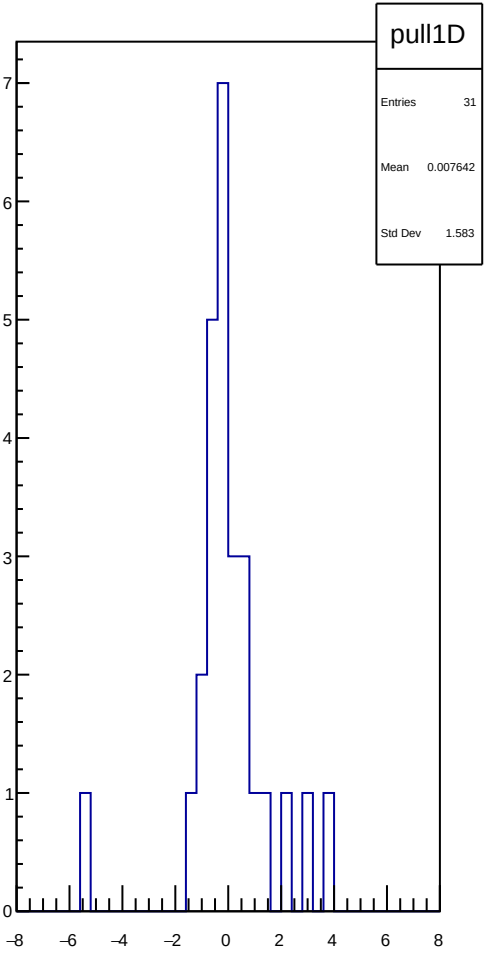

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.32 / 28
p0 236.2 ± 17.22
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

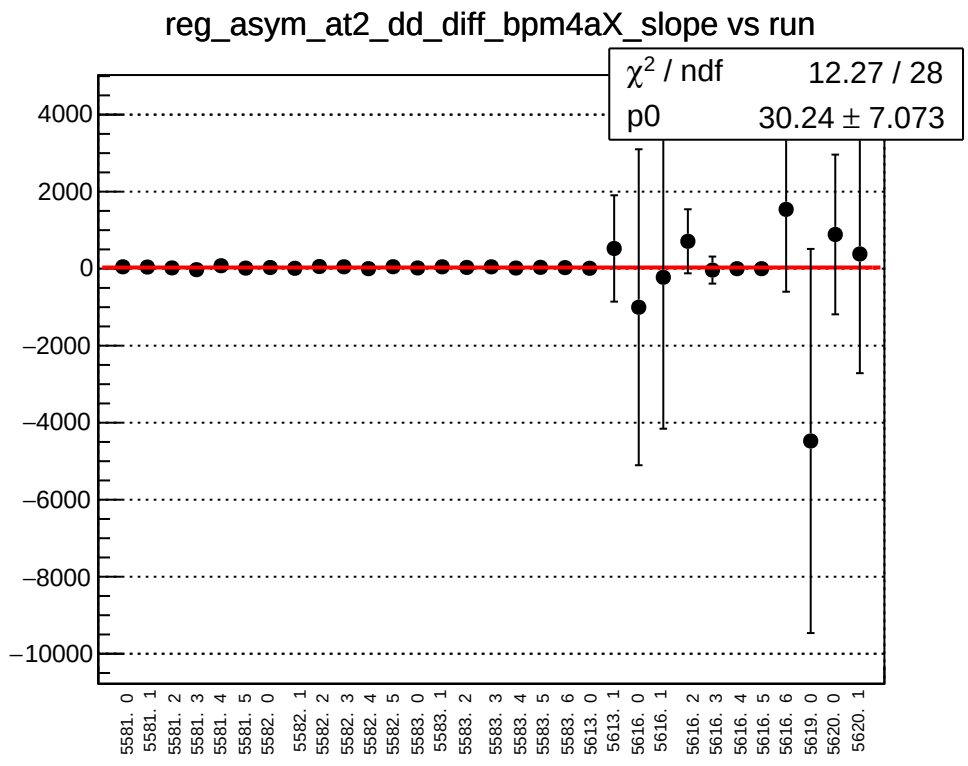

pull1D
Entries 31
Mean −0.04702
Std Dev 0.565
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

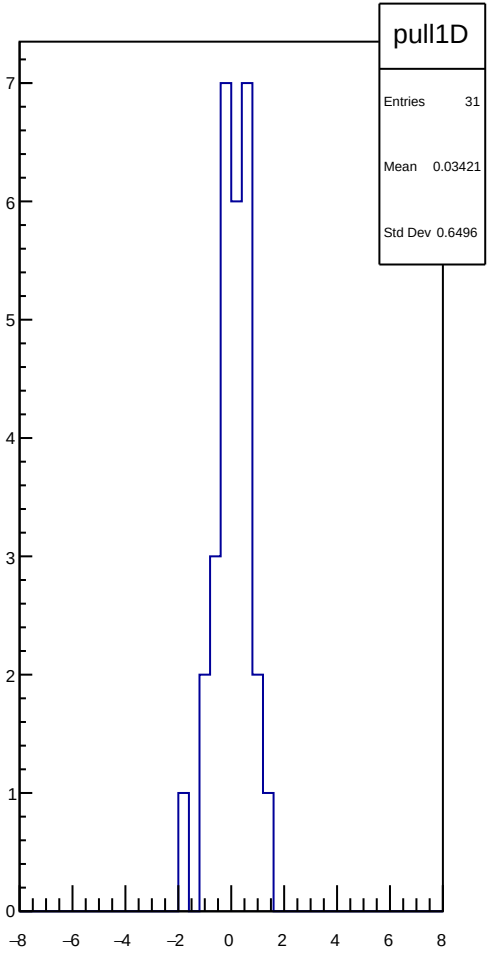

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.537 / 28
p0 45.18 ± 13.01
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

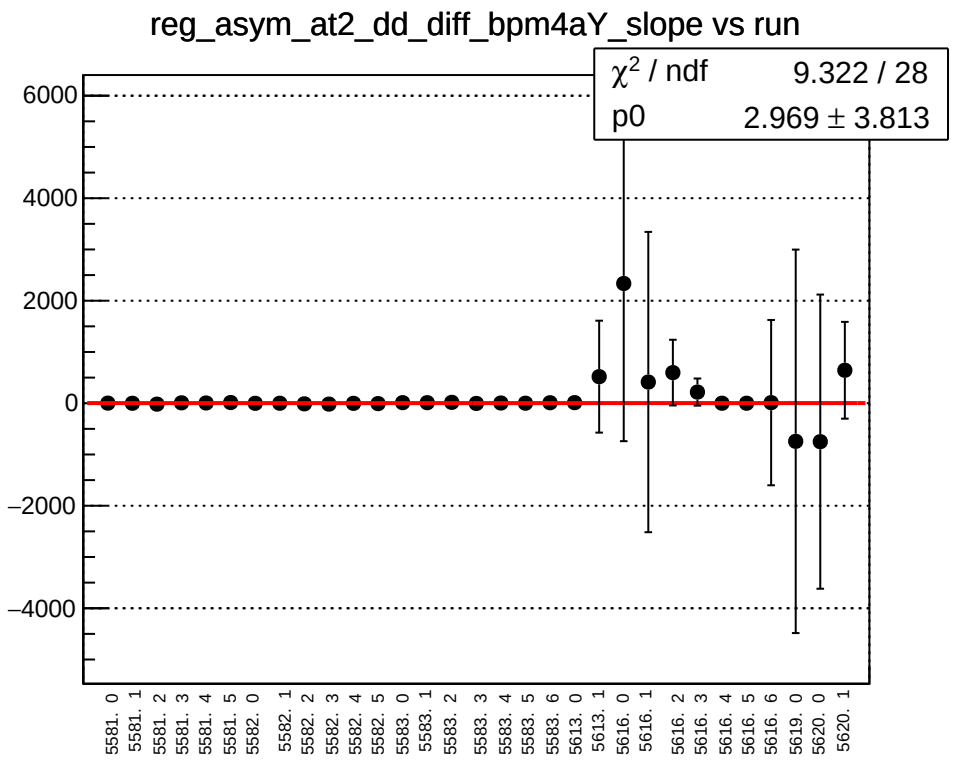

pull1D
Entries 31
Mean −0.07824
Std Dev 0.3877
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

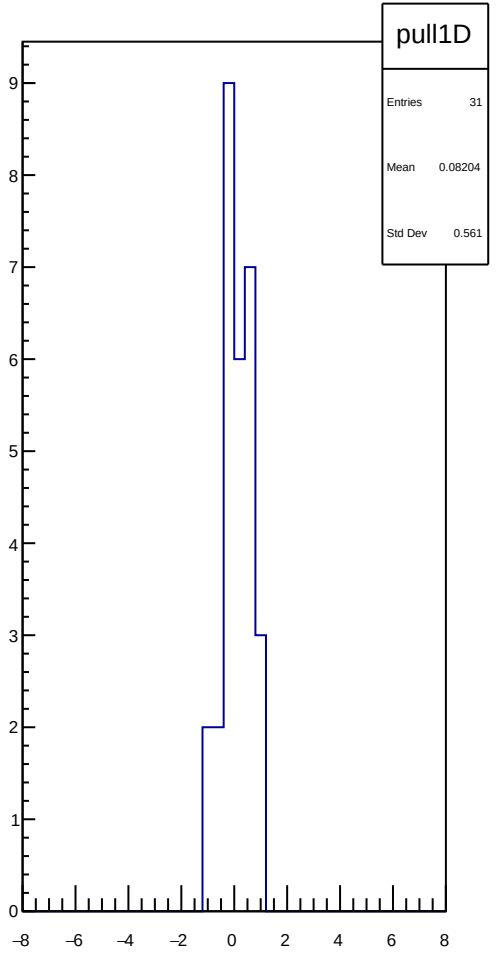

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 879.6 / 28
p0 −184.2 ± 0.5167
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

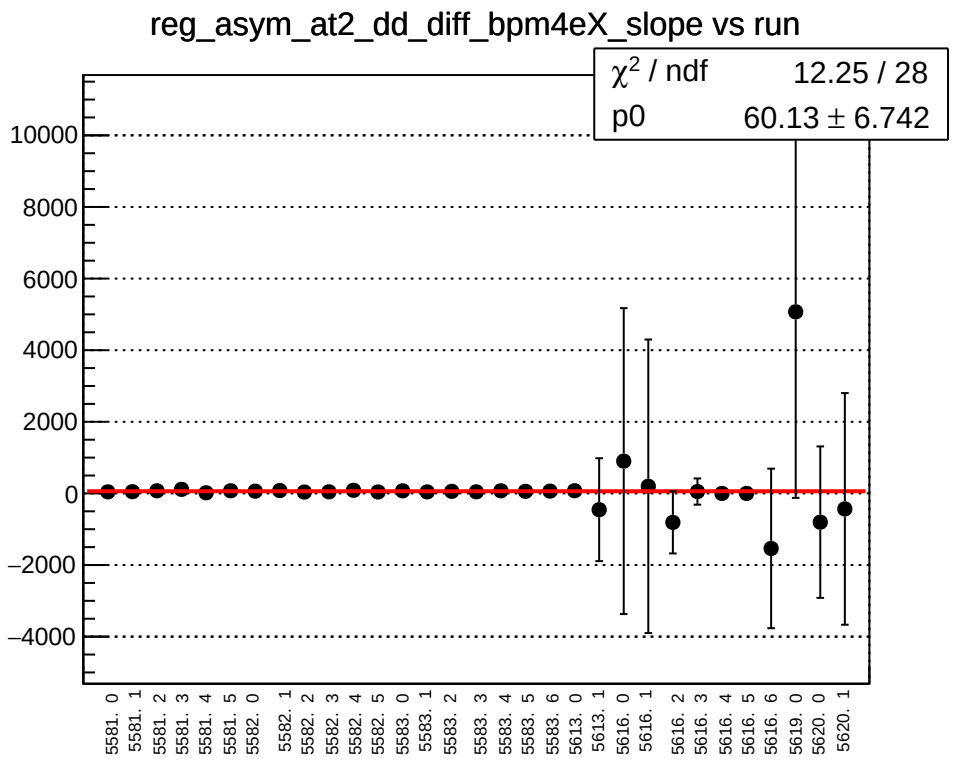

pull1D
Entries 31
Mean 0.007642
Std Dev 1.583
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

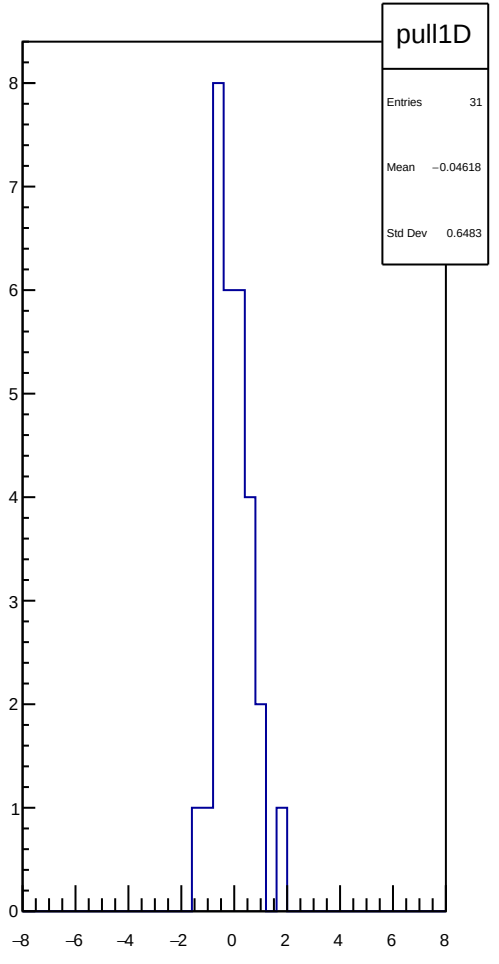

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.27 / 28
p0 30.24 ± 7.073
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

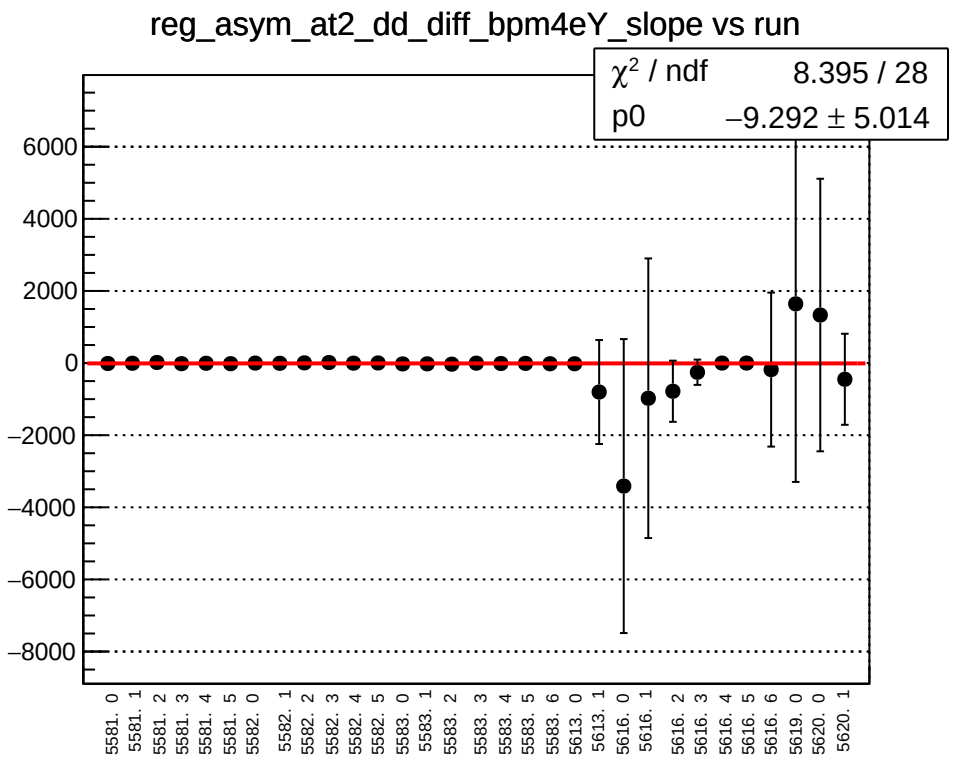

pull1D
Entries 31
Mean 0.03421
Std Dev 0.6496
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

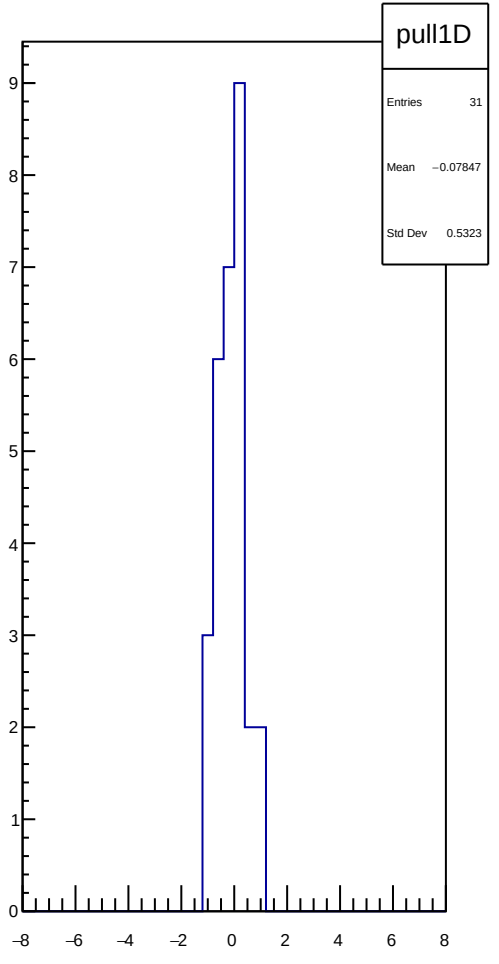

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.322 / 28
p0 2.969 ± 3.813
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

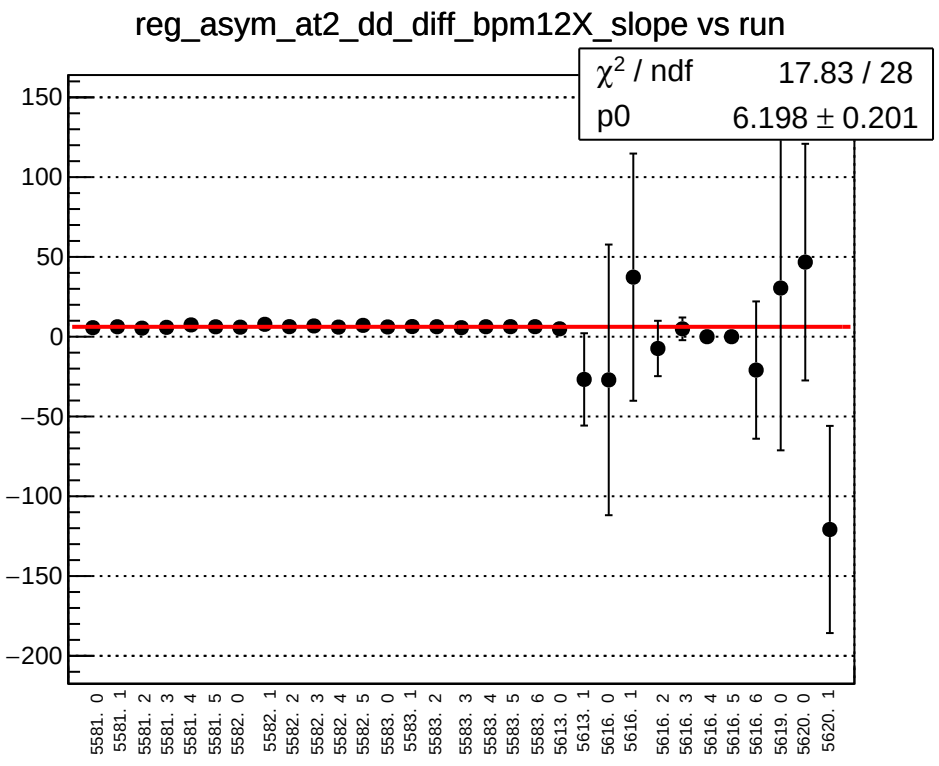

pull1D
Entries 31
Mean 0.08204
Std Dev 0.561
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

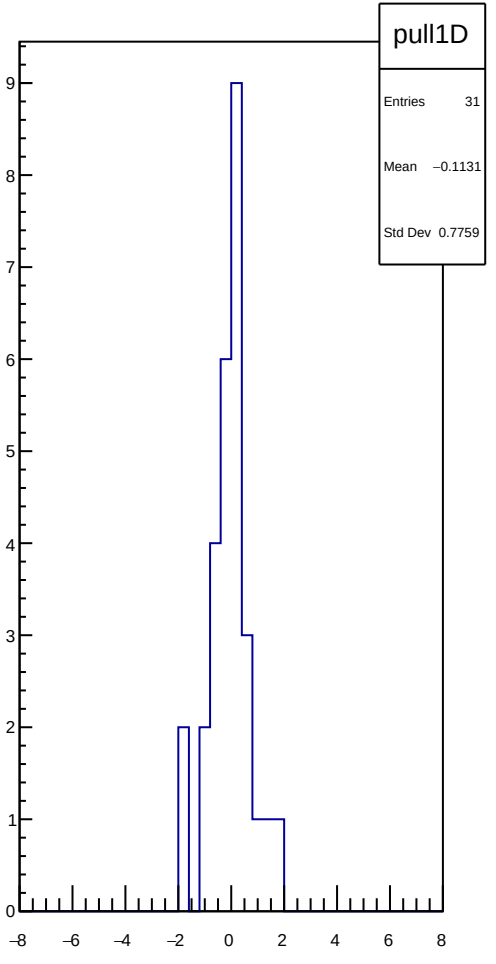

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.25 / 28
p0 60.13 ± 6.742
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

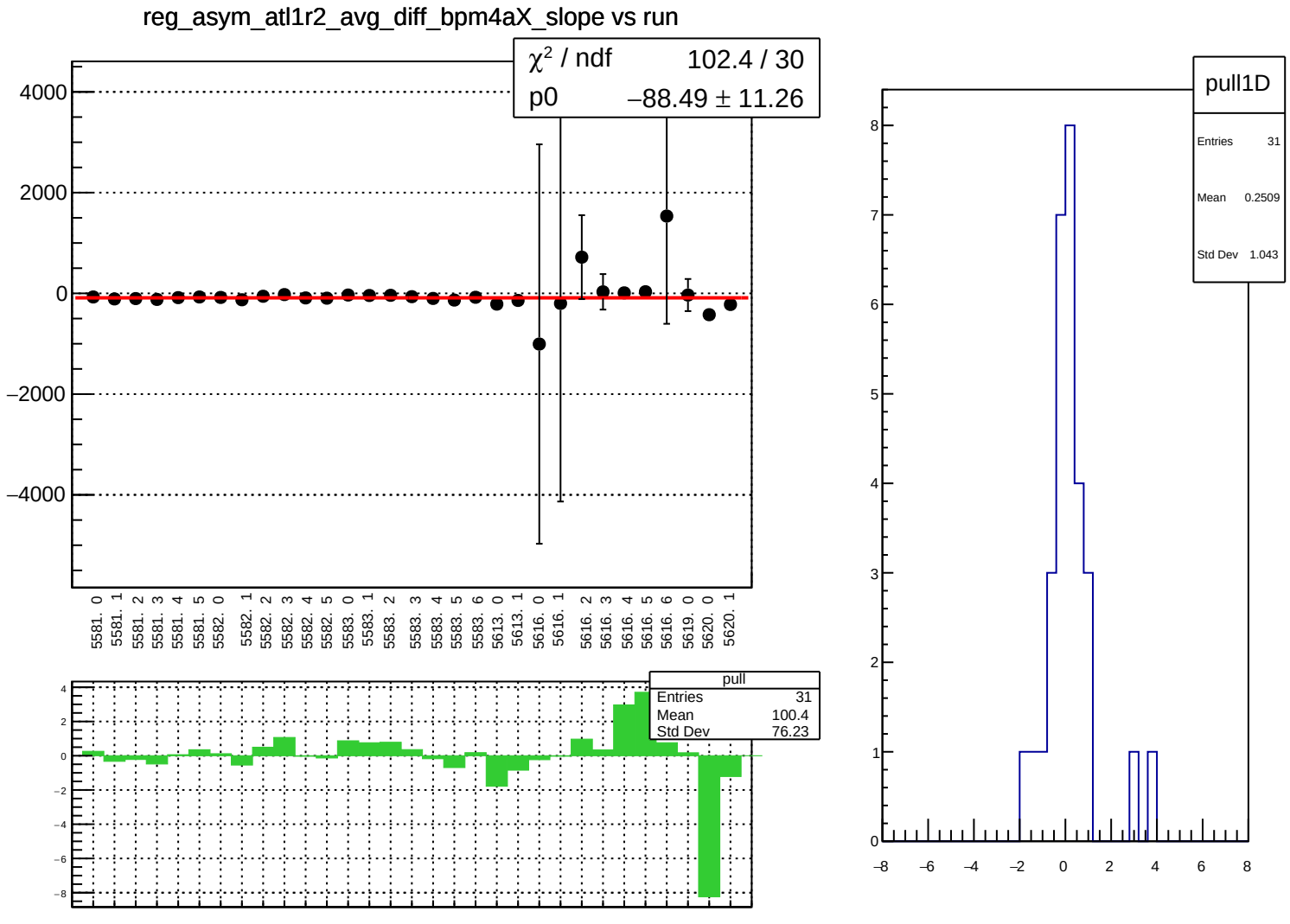

pull1D
Entries 31
Mean −0.04618
Std Dev 0.6483
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

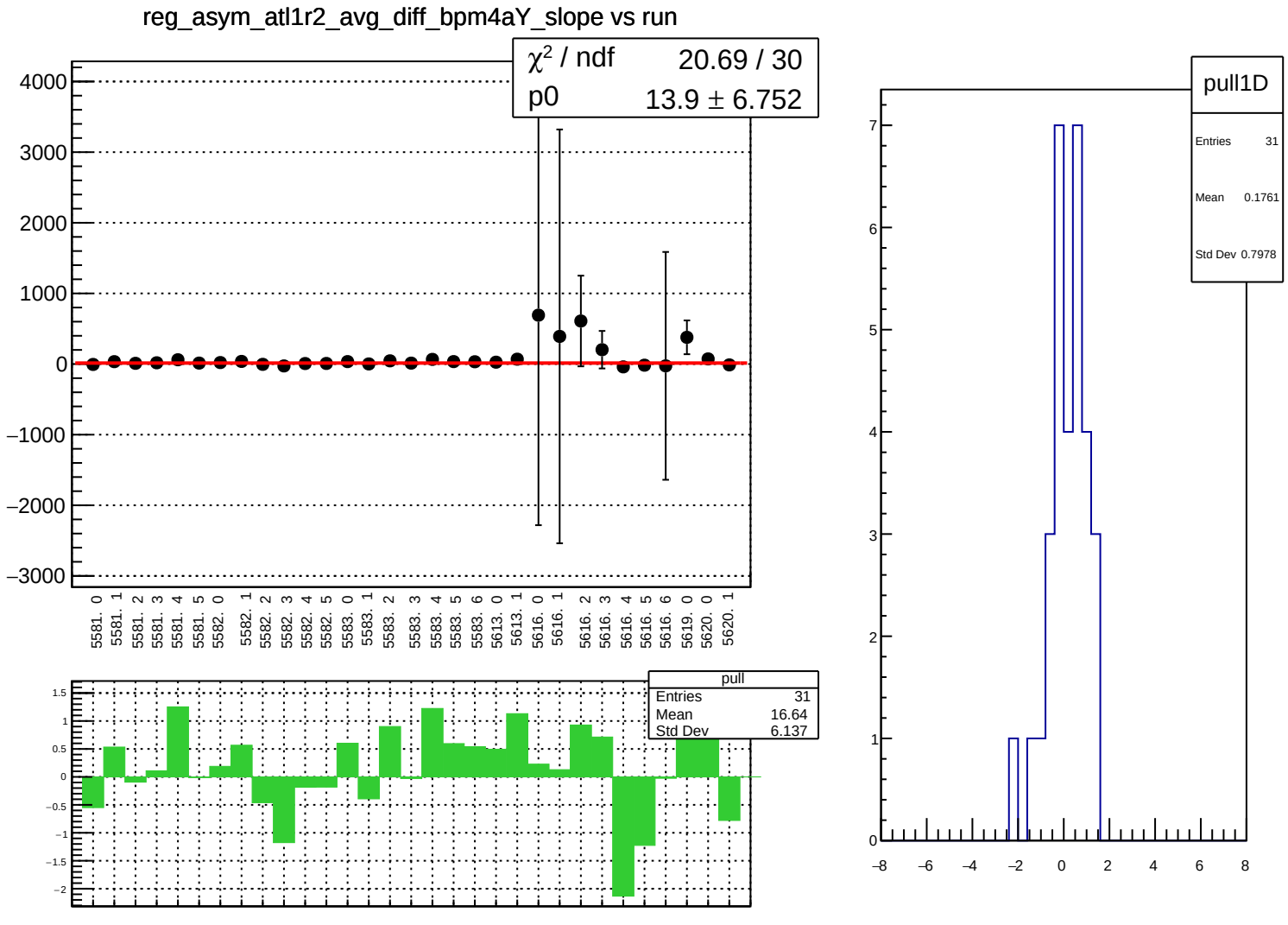

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.395 / 28
p0 −9.292 ± 5.014
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

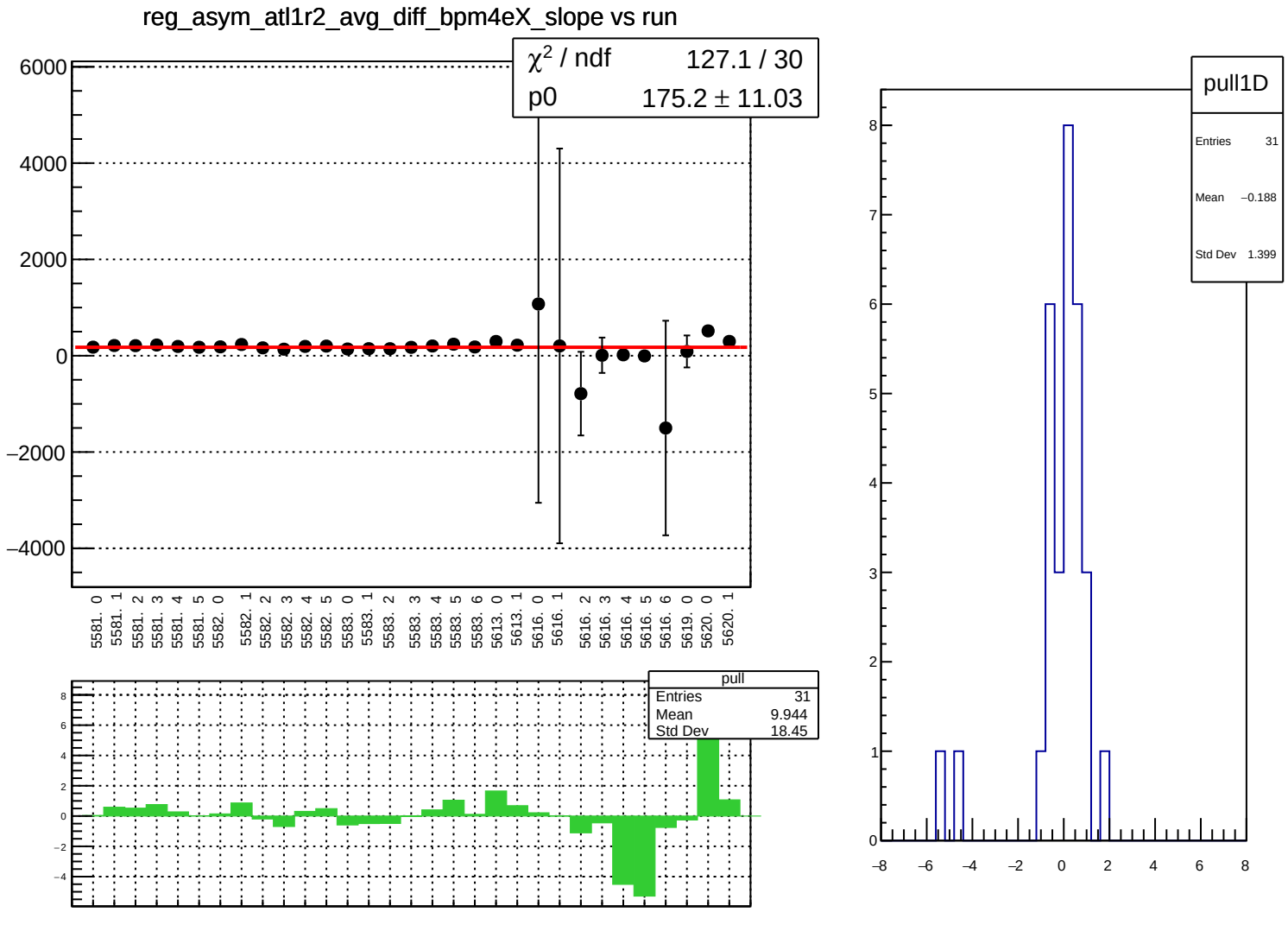

pull1D
Entries 31
Mean −0.07847
Std Dev 0.5323
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

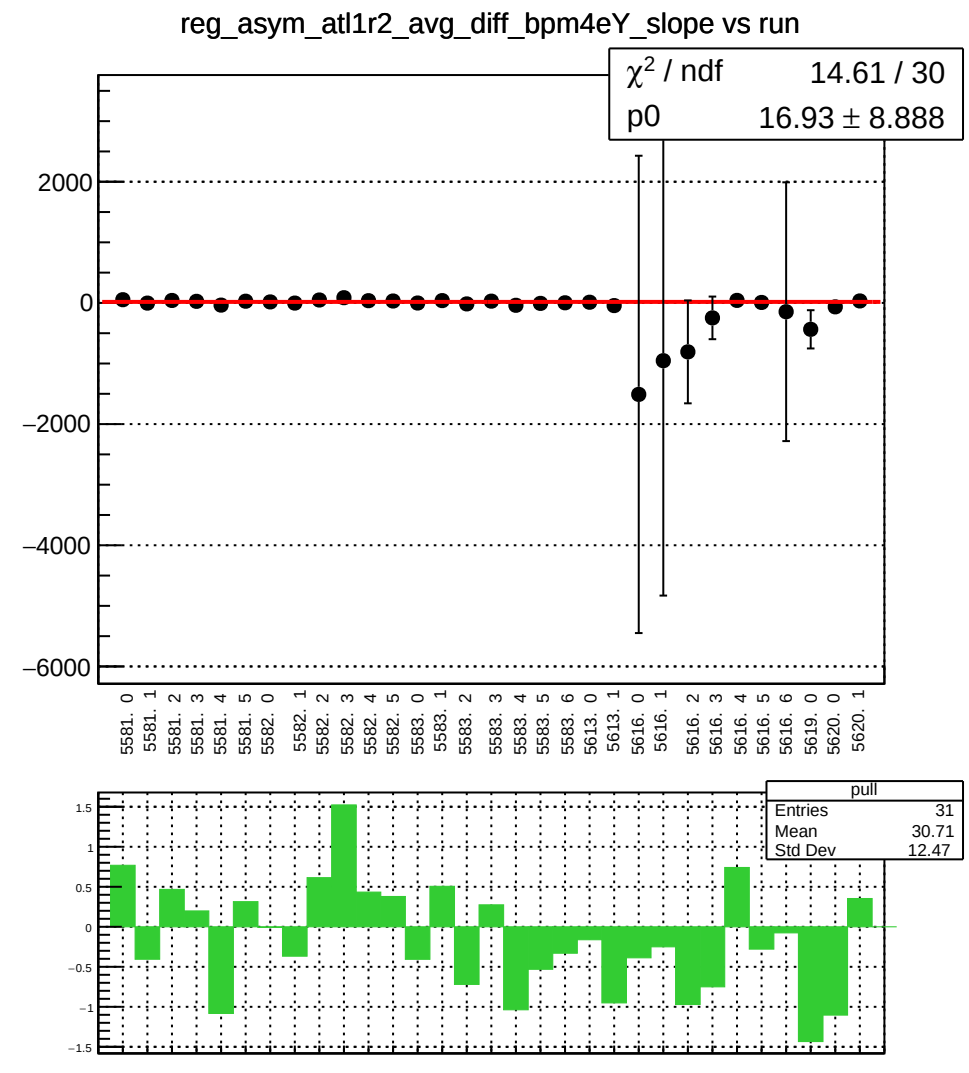

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 17.83 / 28
p0 6.198 ± 0.201
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1

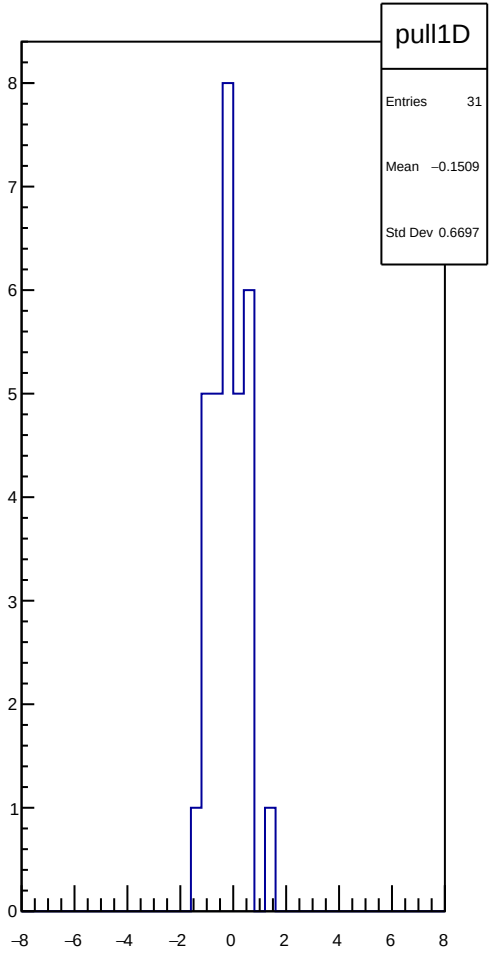

pull1D
Entries 31
Mean −0.1131
Std Dev 0.7759
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

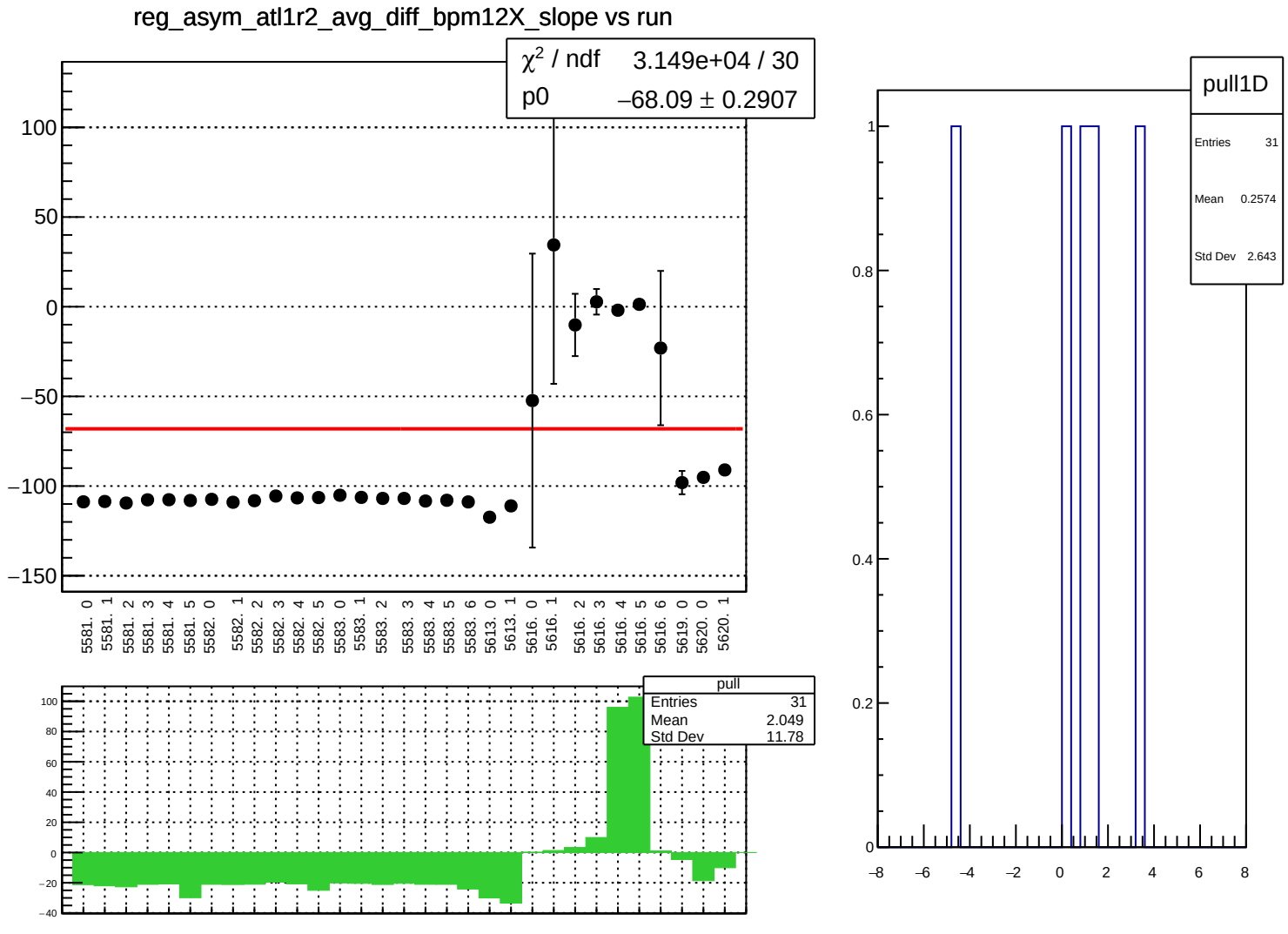

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 102.4 / 30
p0 −88.49 ± 11.26
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 100.4
Std Dev 76.23
pull1D
Entries 31
Mean 0.2509
Std Dev 1.043

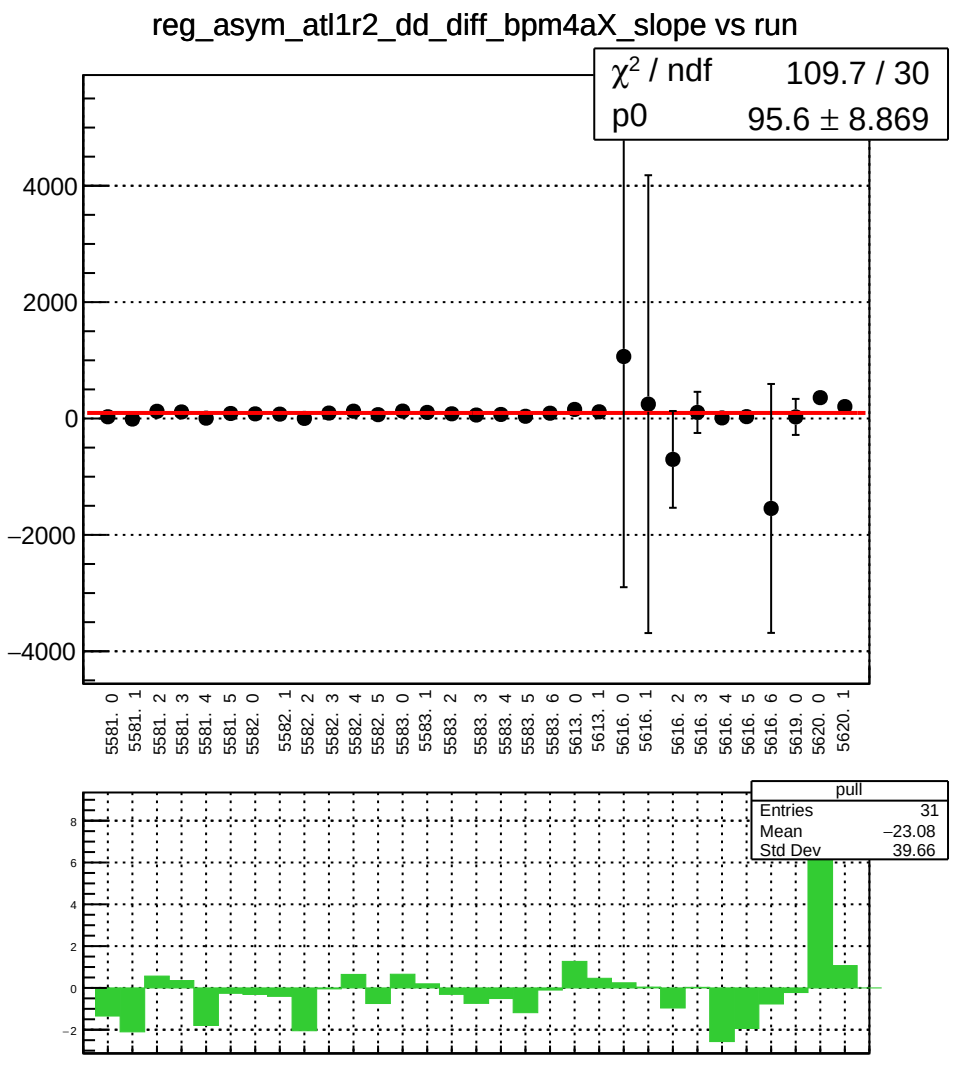

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.69 / 30
p0 13.9 ± 6.752
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.64
Std Dev 6.137
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.1761
Std Dev 0.7978
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

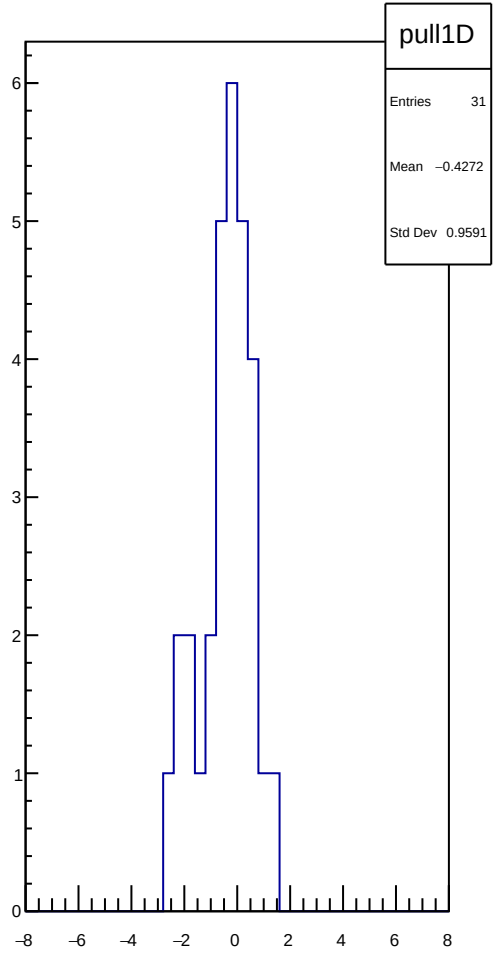

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 127.1 / 30
p0 175.2 ± 11.03
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 9.944
Std Dev 18.45
pull1D
Entries 31
Mean −0.188
Std Dev 1.399

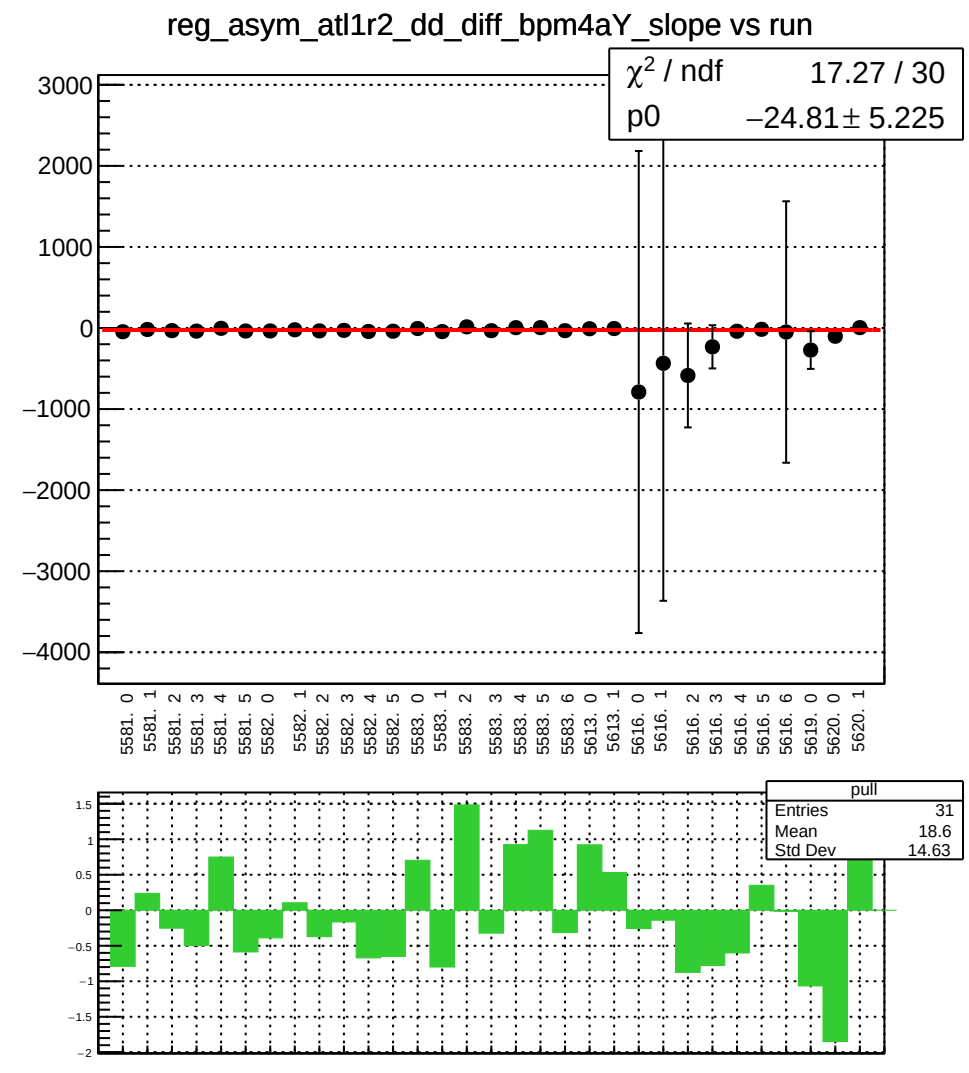

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.61 / 30
p0 16.93 ± 8.888
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 30.71
Std Dev 12.47
1.5
1
0.5
0
−0.5
−1
−1.5

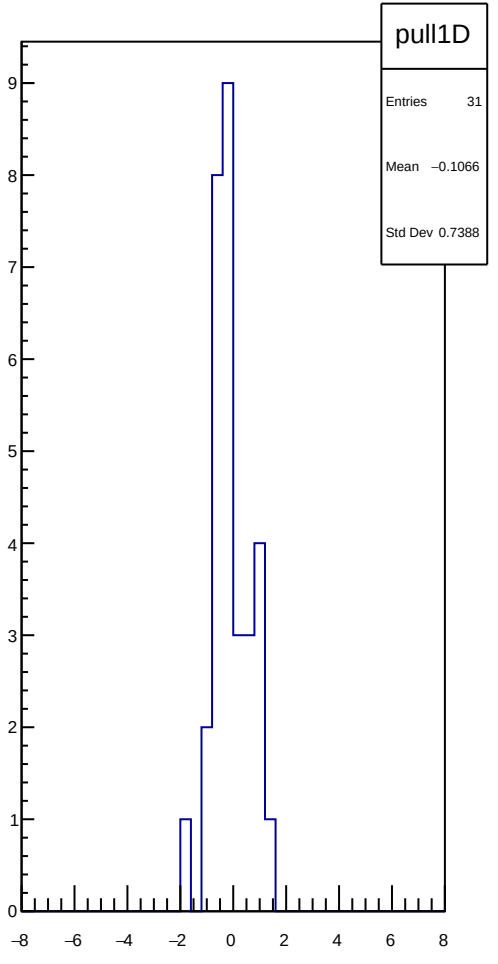

pull1D
Entries 31
Mean −0.1509
Std Dev 0.6697
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

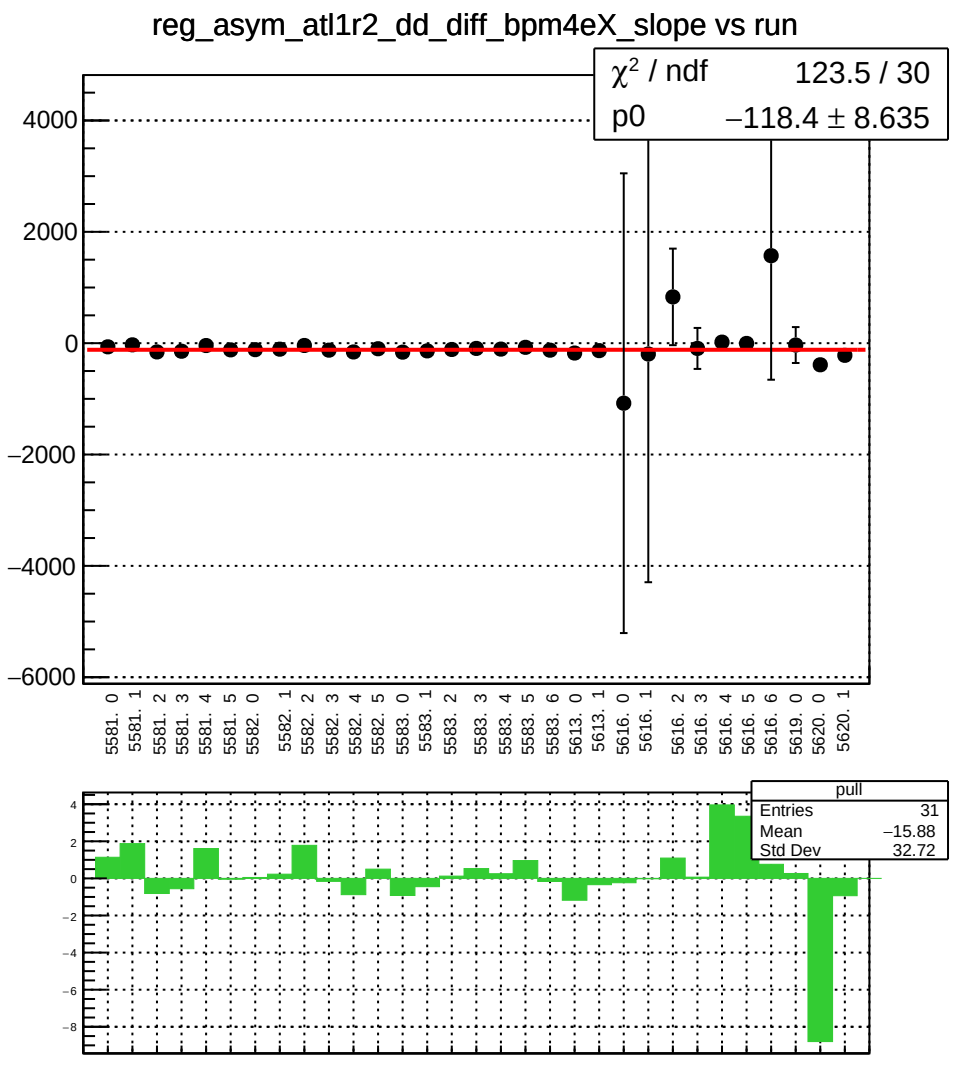

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.149e+04 / 30
p0 −68.09 ± 0.2907
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 2.049
Std Dev 11.78
100
80
60
40
20
0
−20
−40
pull1D
Entries 31
Mean 0.2574
Std Dev 2.643
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

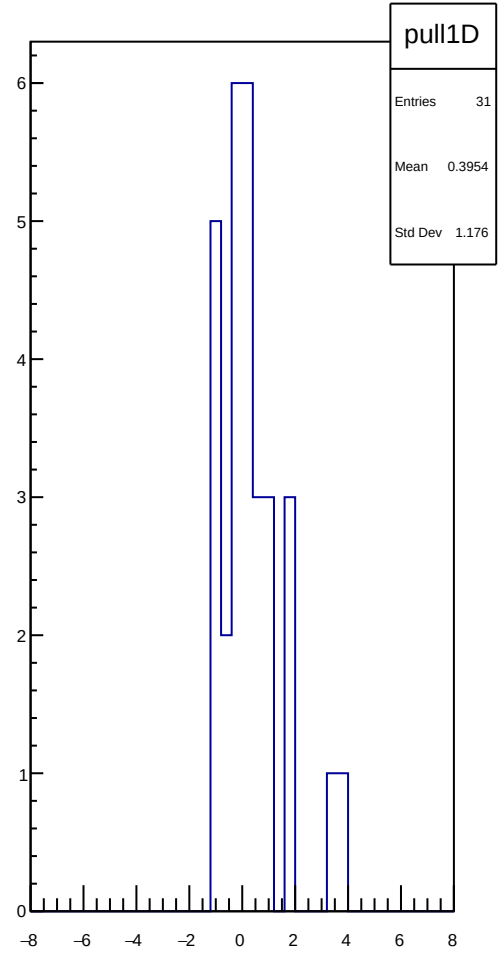

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 109.7 / 30
p0 95.6 ± 8.869
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −23.08
Std Dev 39.66
8
6
4
2
0
−2

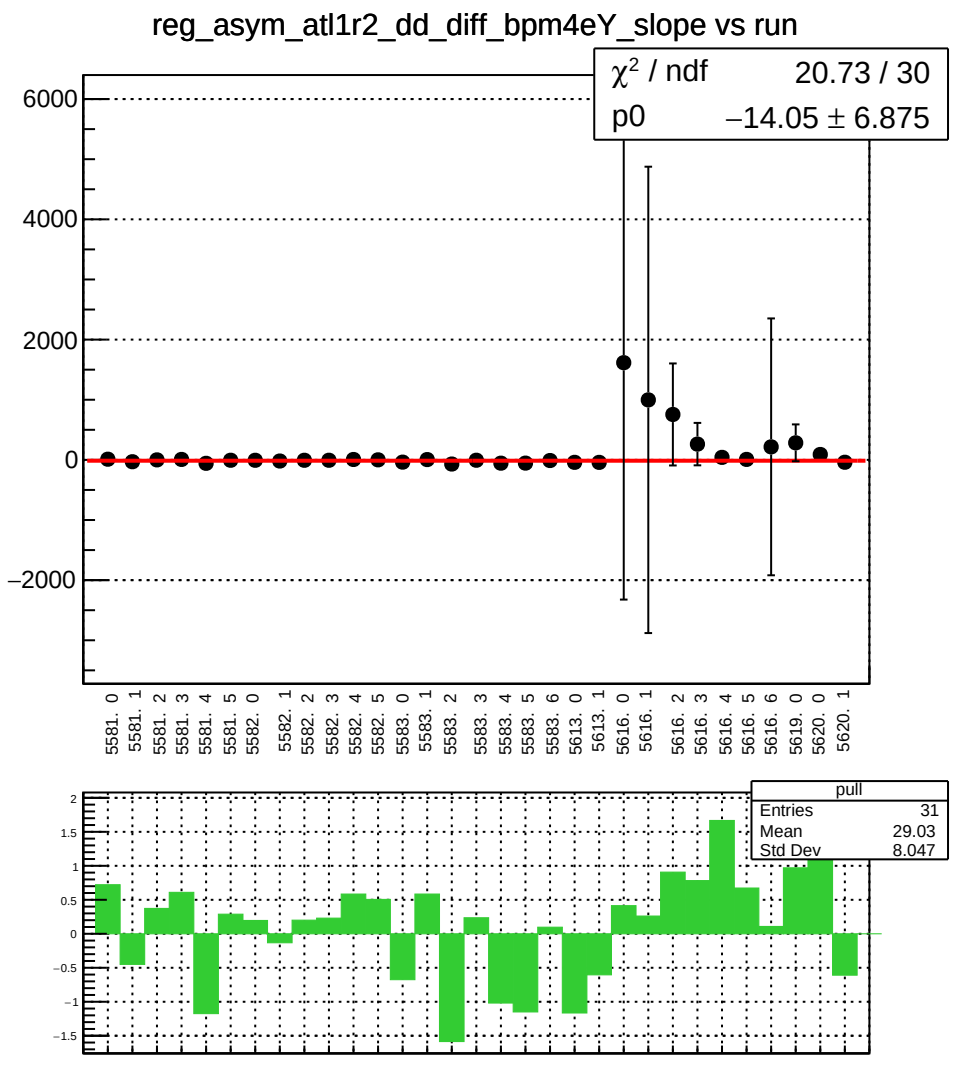

pull1D
Entries 31
Mean −0.4272
Std Dev 0.9591
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

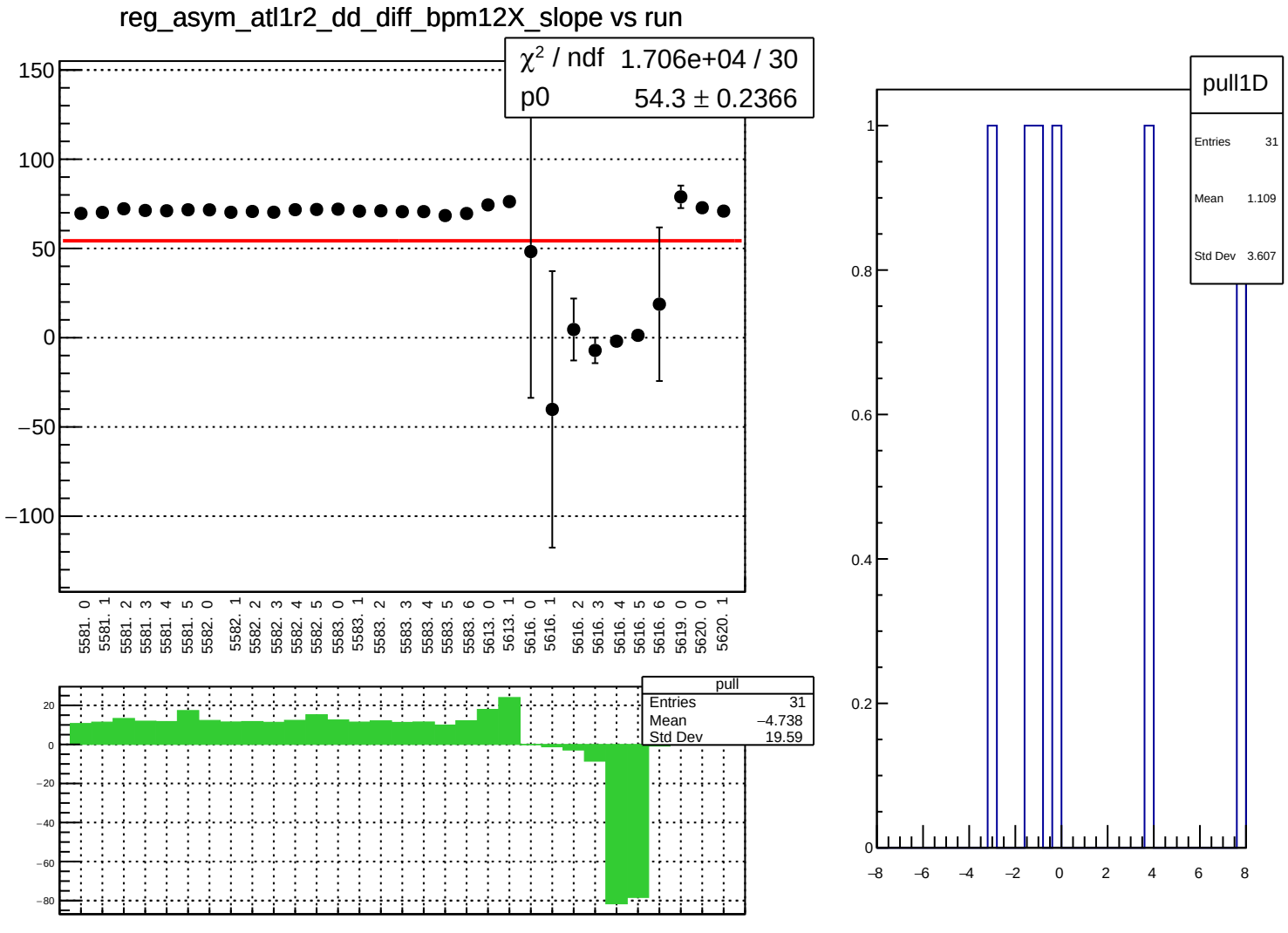

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.27 / 30
p0 −24.81 ± 5.225
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 18.6
Std Dev 14.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

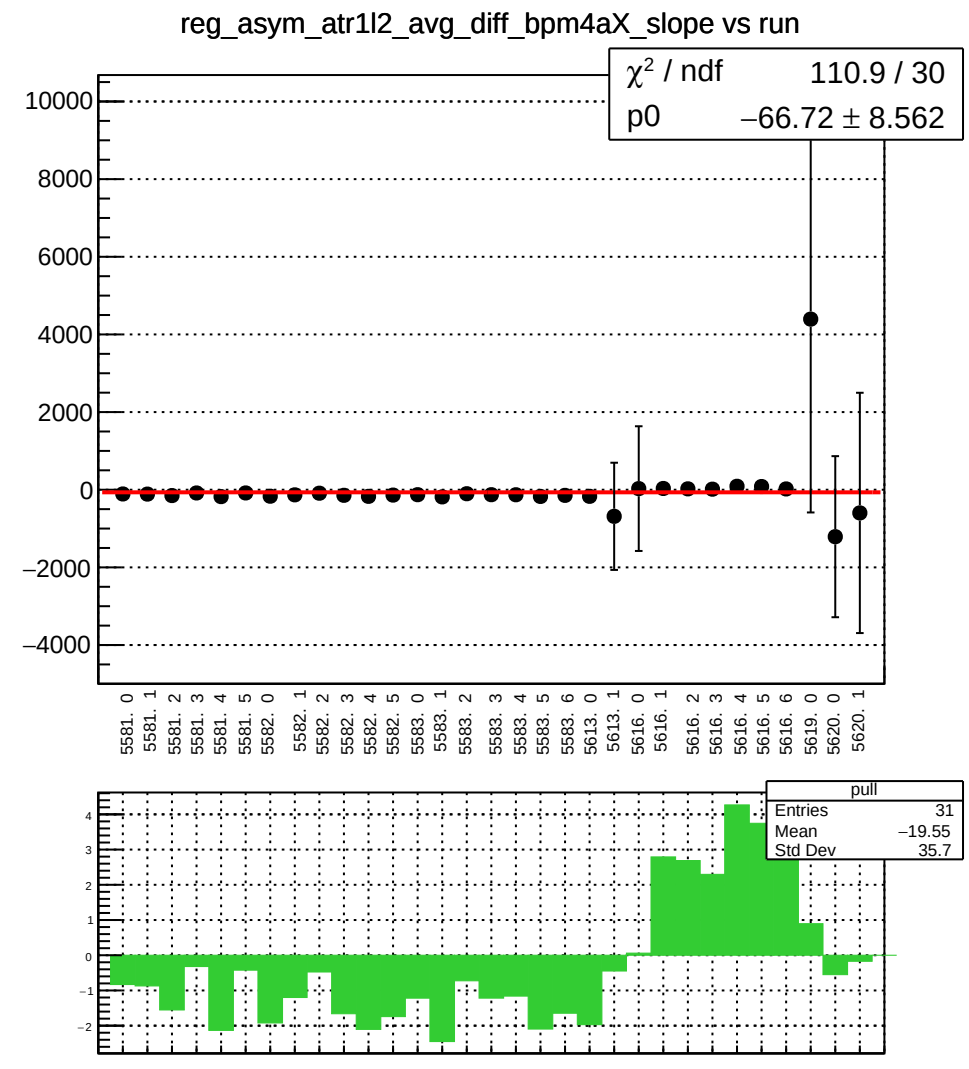

pull1D
Entries 31
Mean −0.1066
Std Dev 0.7388
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

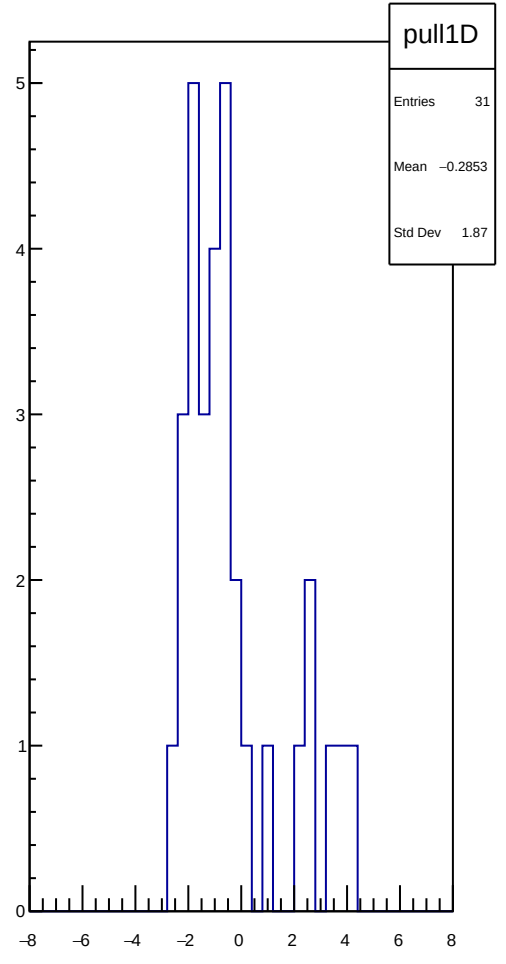

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 123.5 / 30
p0 −118.4 ± 8.635
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −15.88
Std Dev 32.72
4
2
0
−2
−4
−6
−8

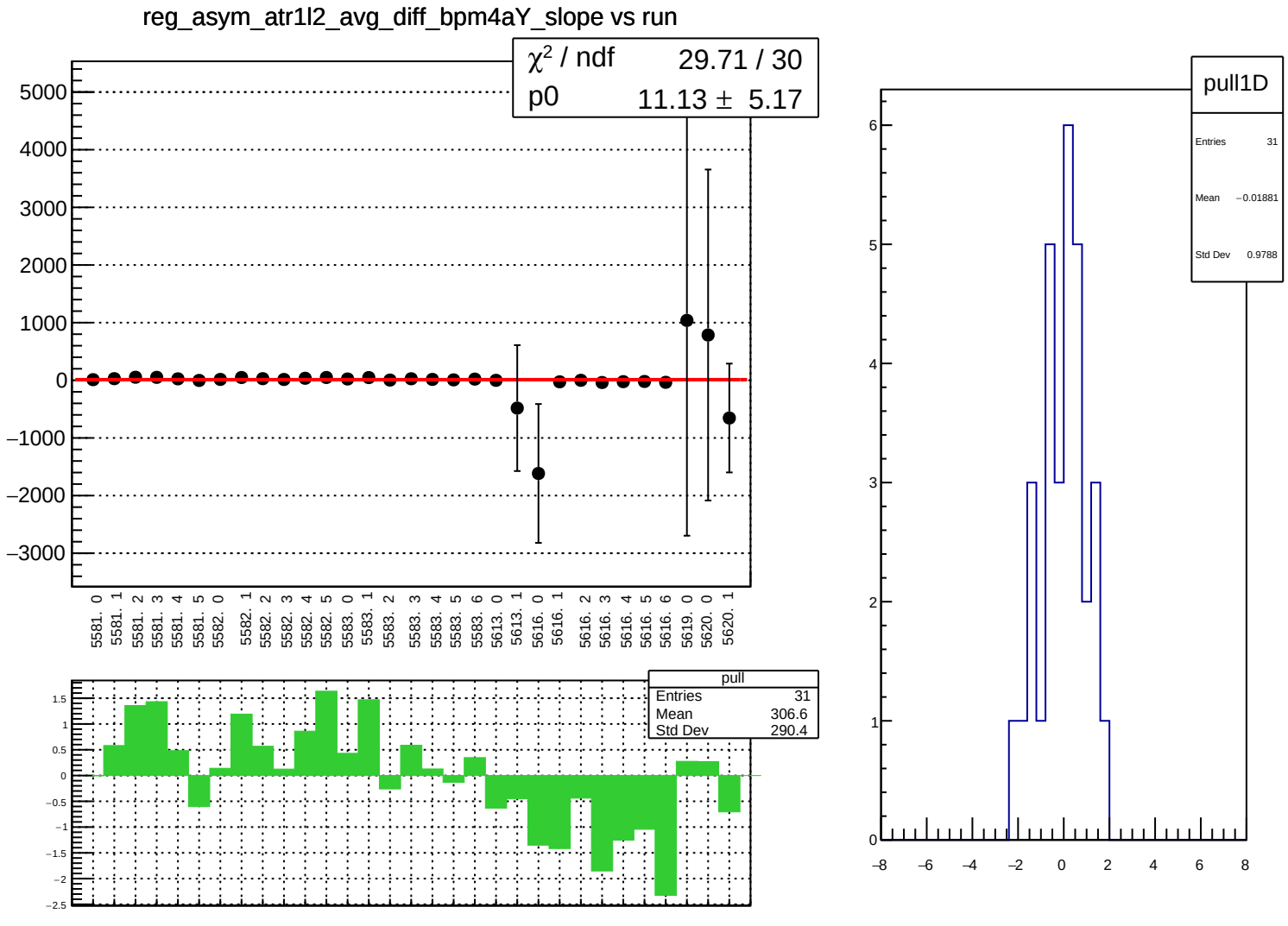

pull1D
Entries 31
Mean 0.3954
Std Dev 1.176
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

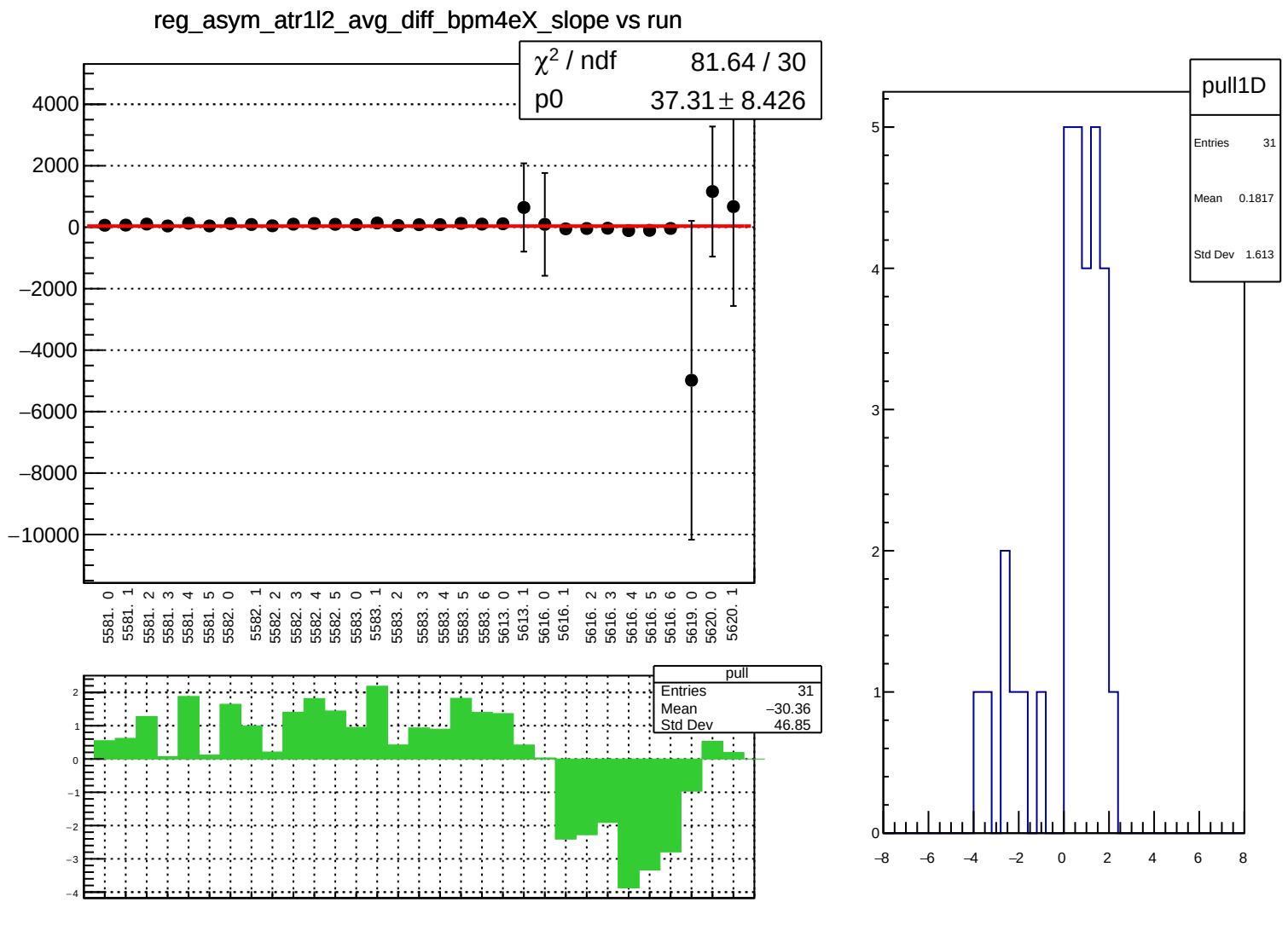

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.73 / 30
p0 −14.05 ± 6.875
6000
4000
2000
0
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 29.03
Std Dev 8.047
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.1207
Std Dev 0.8088
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

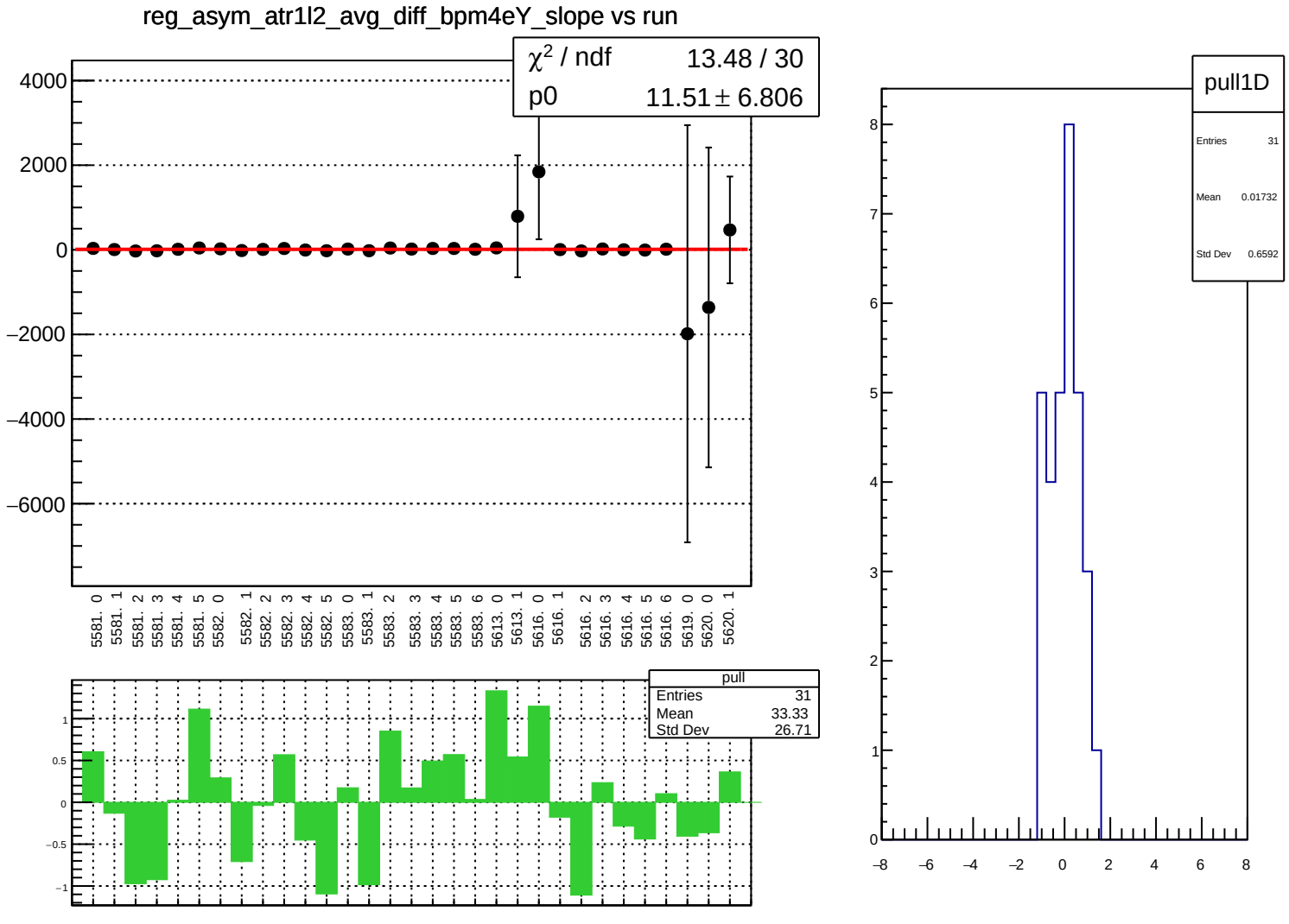

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 1.706e+04 / 30
p0 54.3 ± 0.2366
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −4.738
Std Dev 19.59
20
0
−20
−40
−60
−80
pull1D
Entries 31
Mean 1.109
Std Dev 3.607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

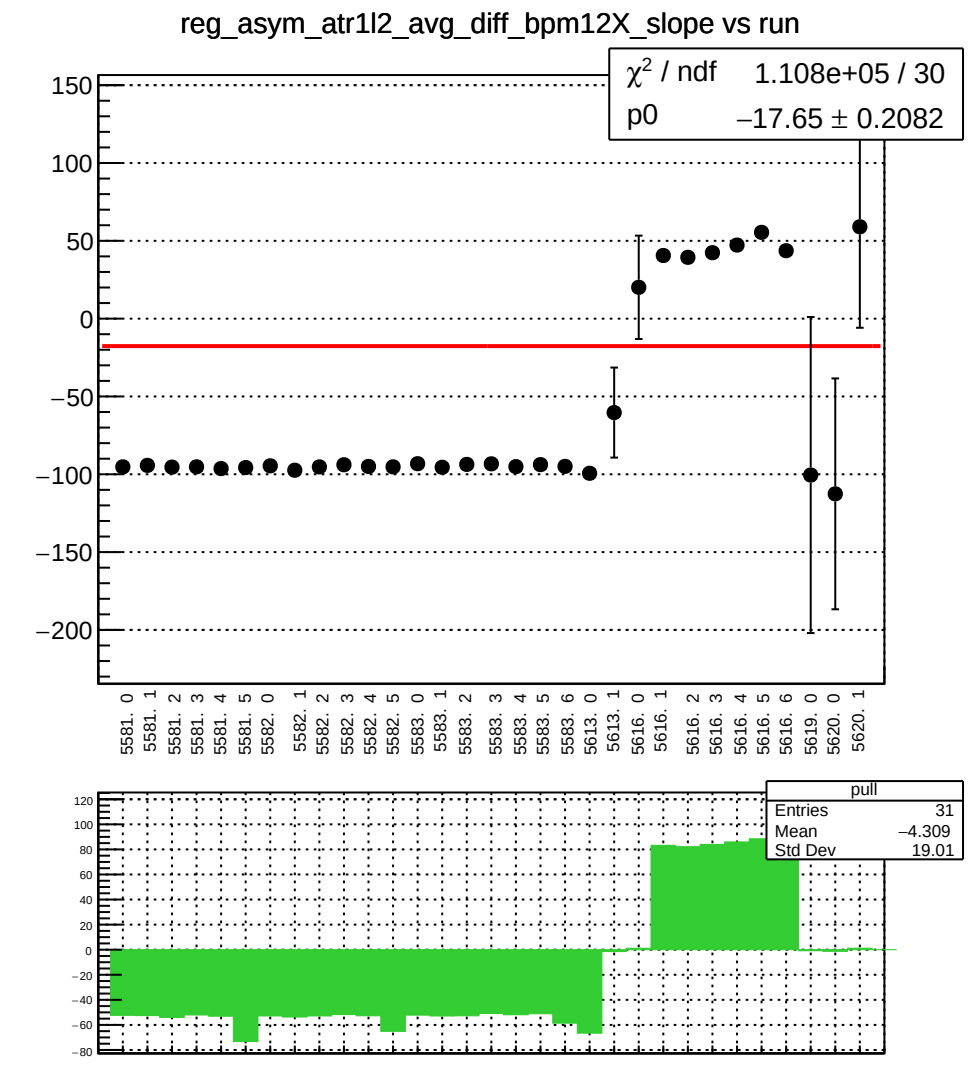

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 110.9 / 30
p0 −66.72 ± 8.562
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −19.55
Std Dev 35.7
4
3
2
1
0
−1
−2

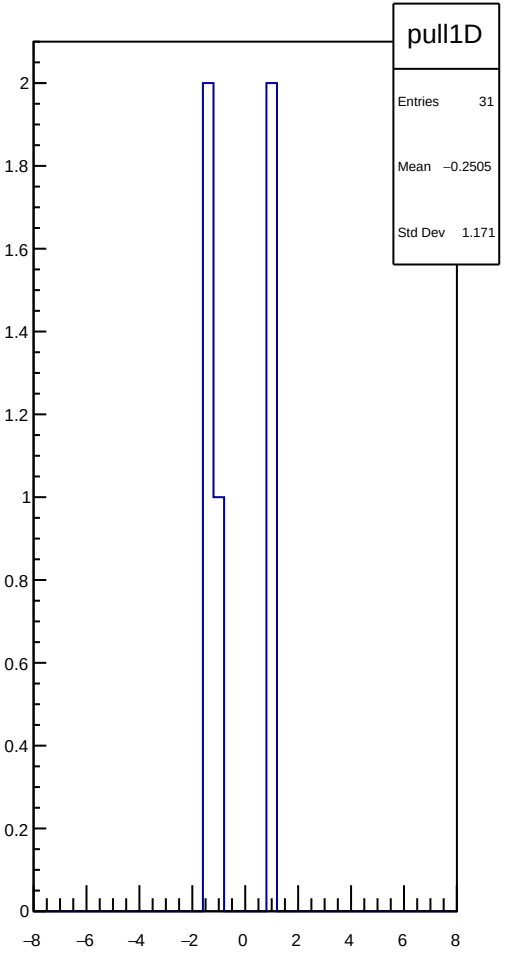

pull1D
Entries 31
Mean −0.2853
Std Dev 1.87
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

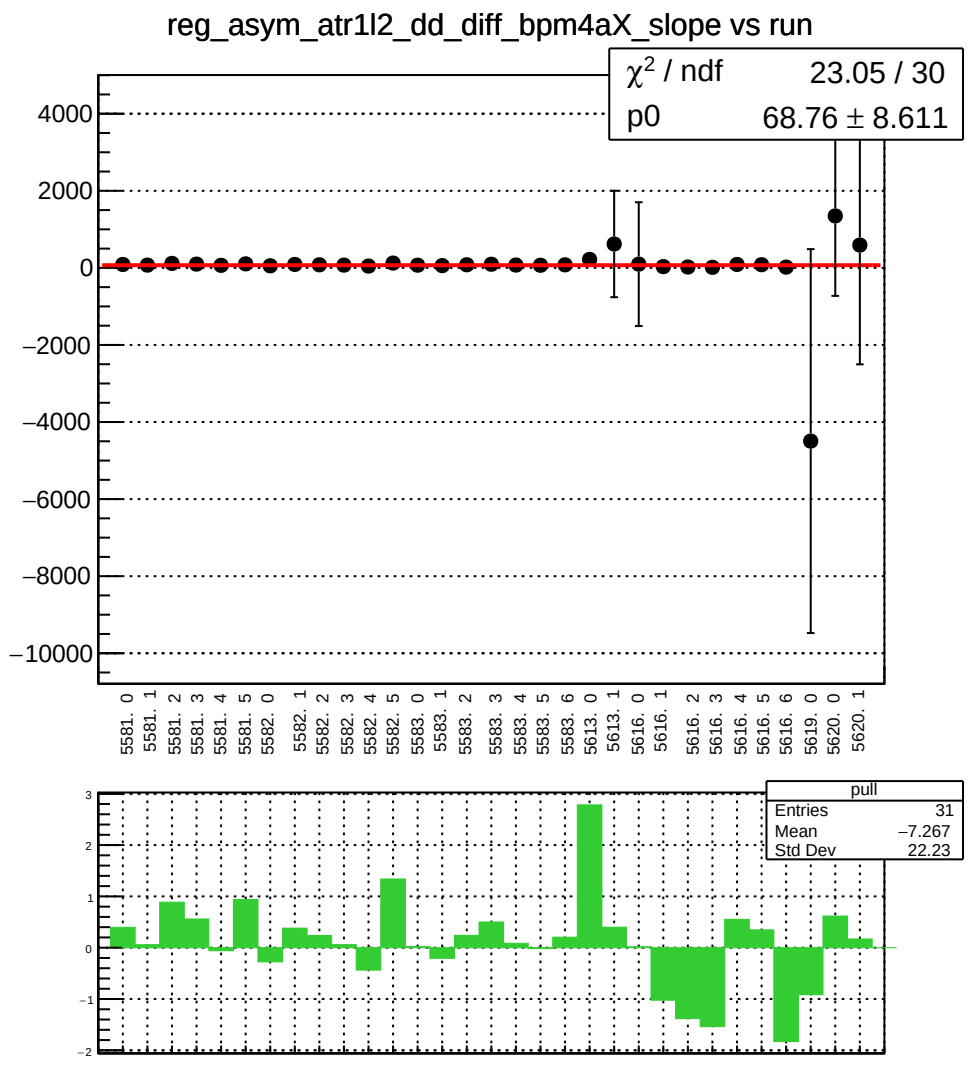

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.71 / 30
p0 11.13 ± 5.17
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 306.6
Std Dev 290.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.01881
Std Dev 0.9788
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

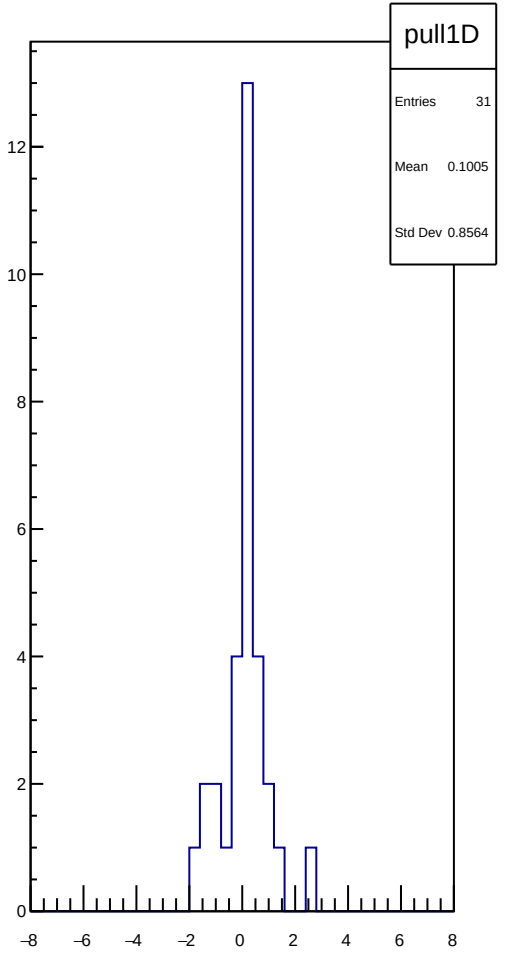

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.64 / 30
p0 37.31 ± 8.426
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −30.36
Std Dev 46.85
2
1
0
−1
−2
−3
−4
pull1D
Entries 31
Mean 0.1817
Std Dev 1.613
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

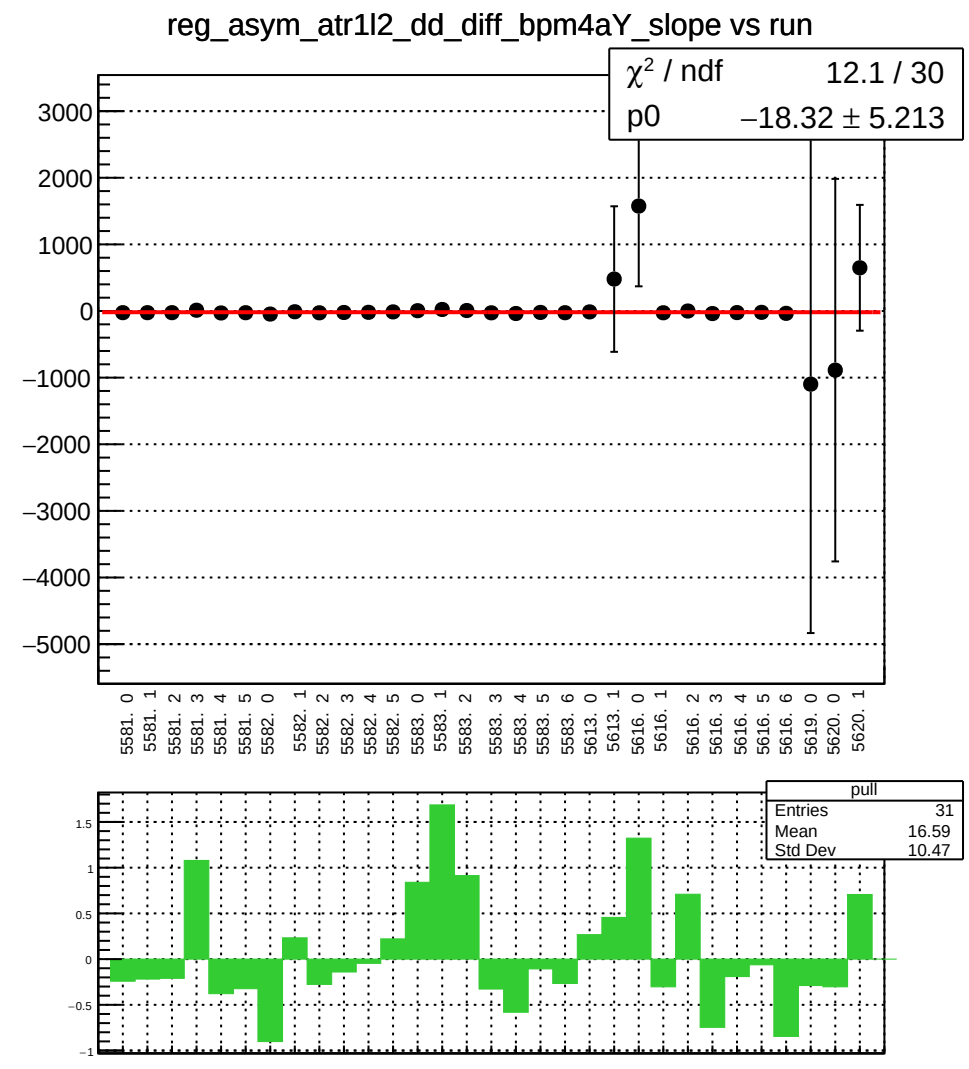

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.48 / 30
p0 11.51 ± 6.806
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.33
Std Dev 26.71
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.01732
Std Dev 0.6592
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

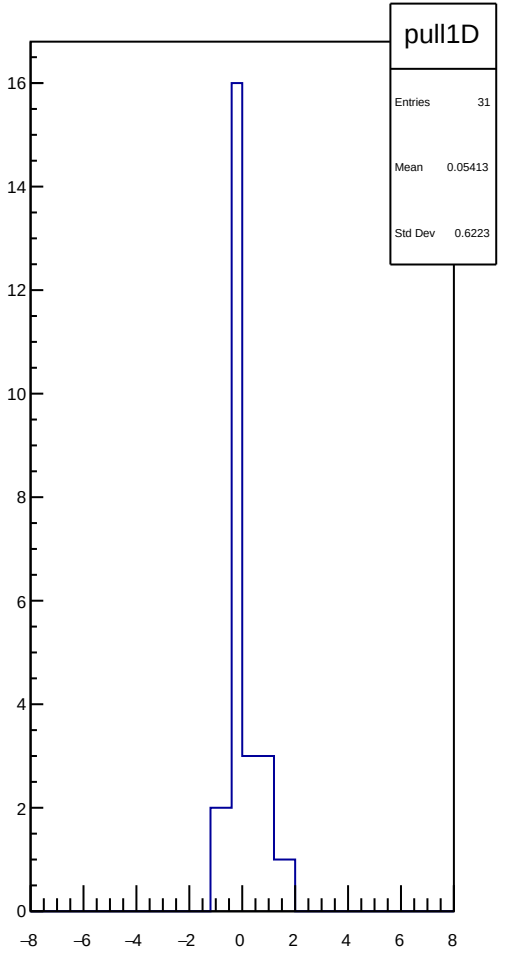

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 1.108e+05 / 30
p0 −17.65 ± 0.2082
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −4.309
Std Dev 19.01
120
100
80
60
40
20
0
−20
−40
−60
−80

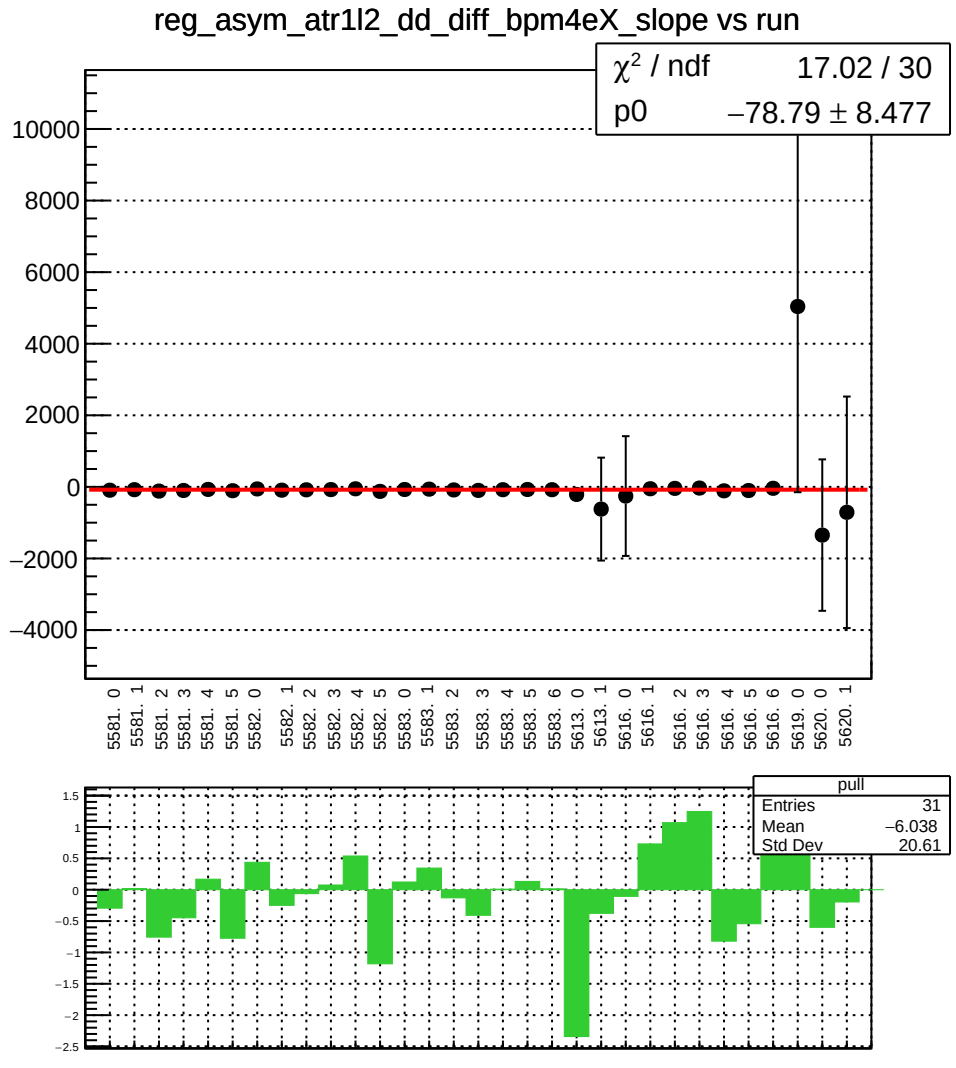

pull1D
Entries 31
Mean −0.2505
Std Dev 1.171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

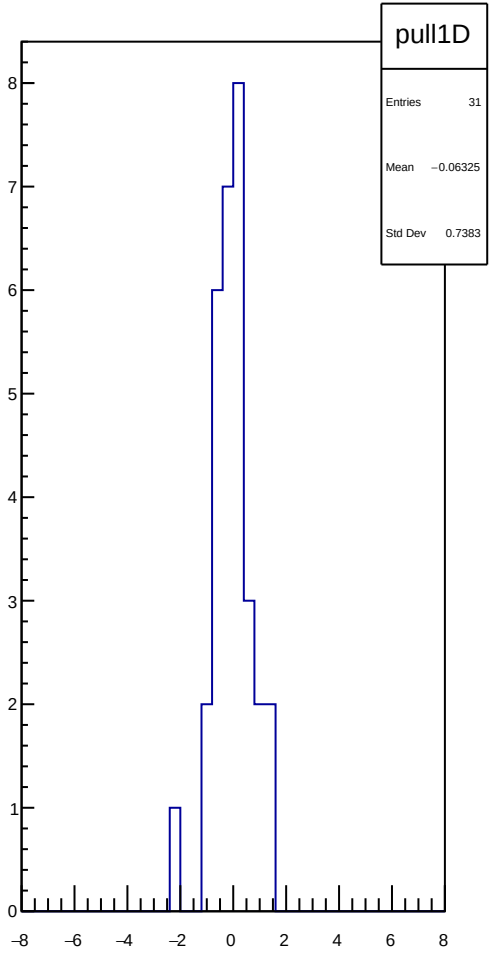

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.05 / 30
p0 68.76 ± 8.611
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −7.267
Std Dev 22.23
3
2
1
0
−1
−2

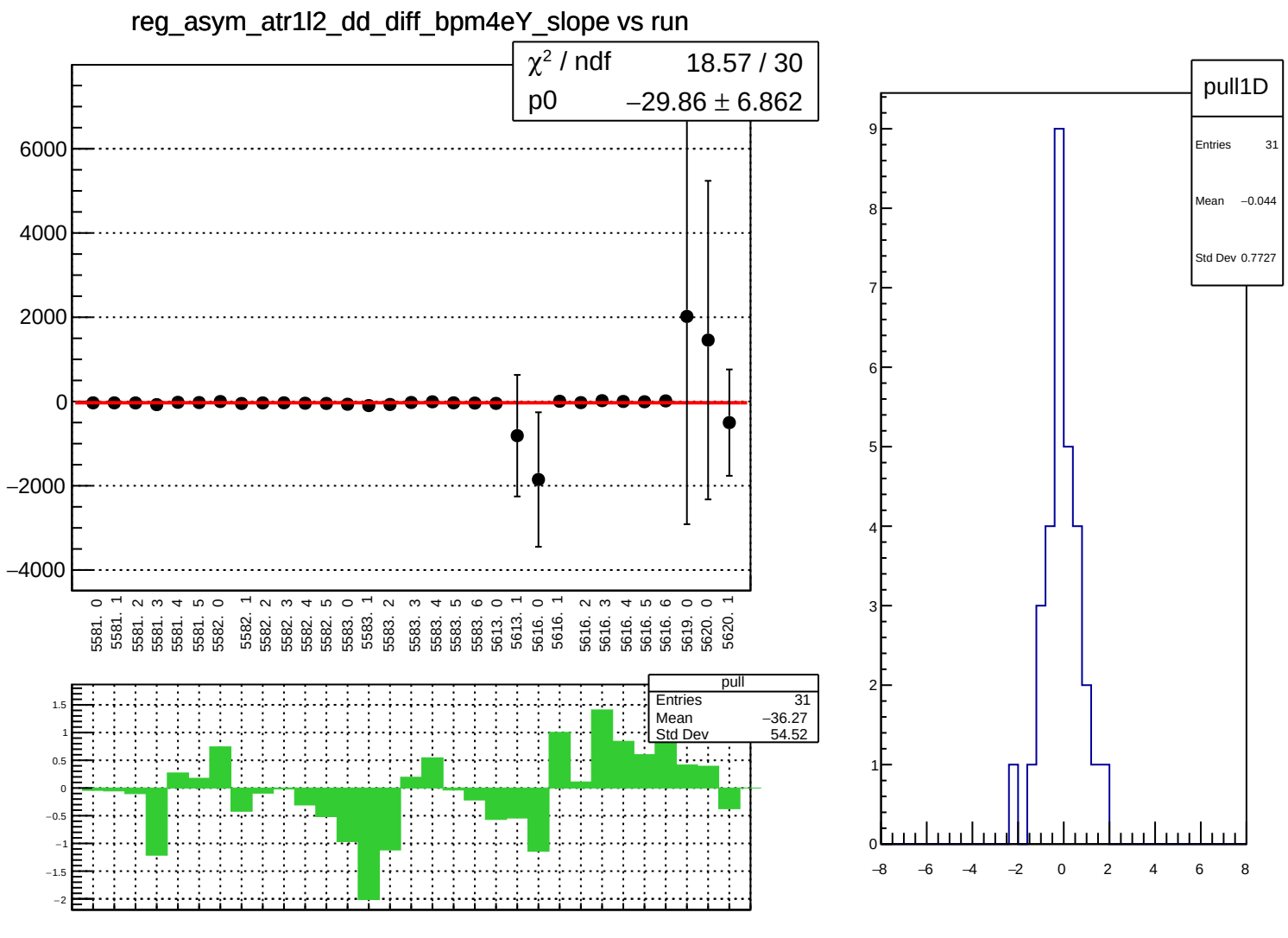

pull1D
Entries 31
Mean 0.1005
Std Dev 0.8564
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

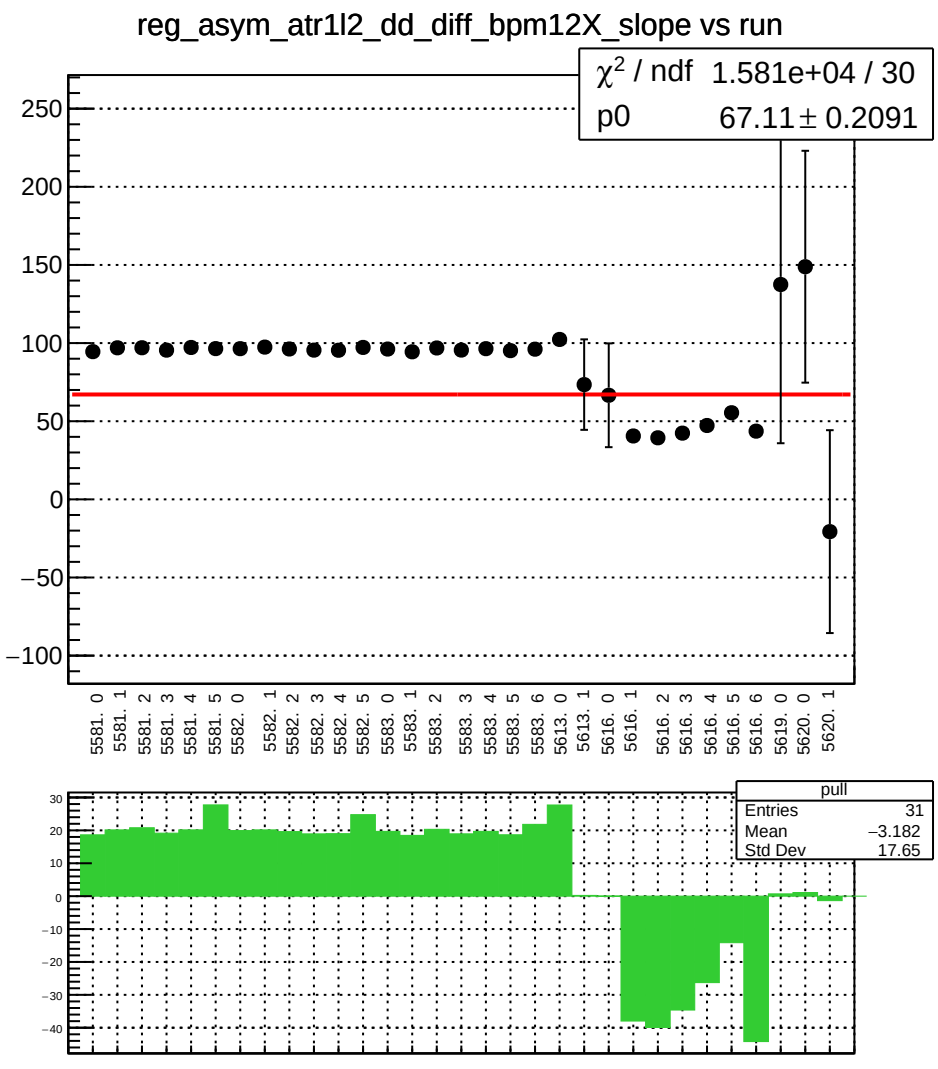

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.1 / 30
p0 −18.32 ± 5.213
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.59
Std Dev 10.47
1.5
1
0.5
0
−0.5
−1

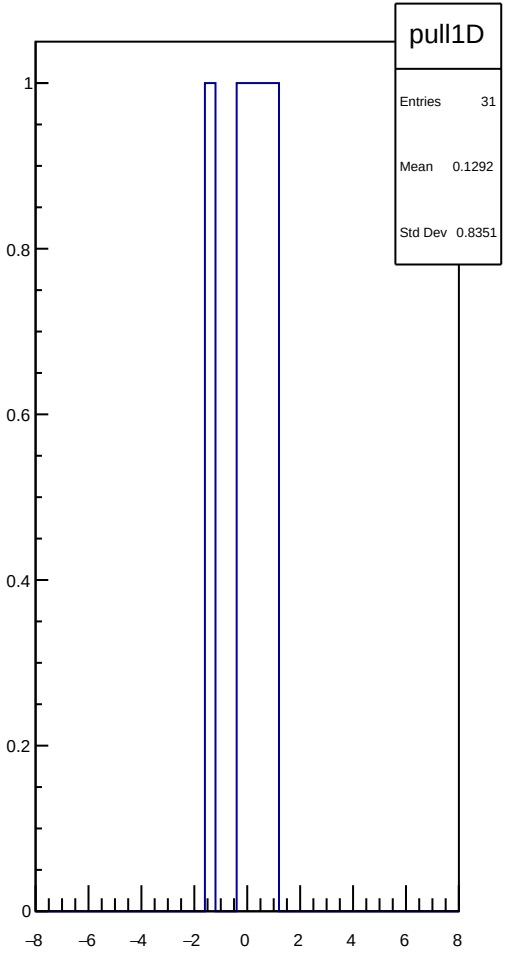

pull1D
Entries 31
Mean 0.05413
Std Dev 0.6223
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

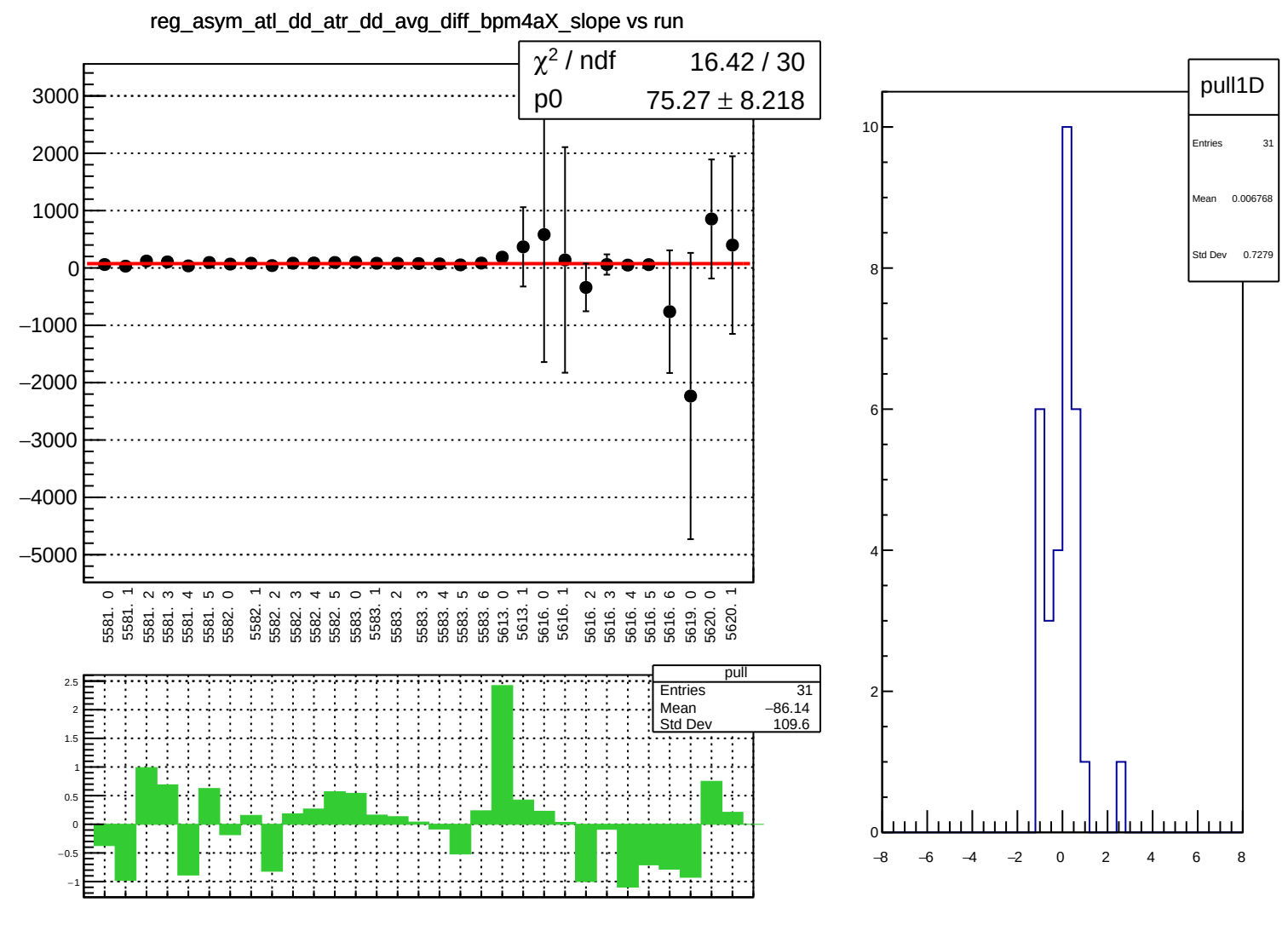

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.02 / 30
p0 −78.79 ± 8.477
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −6.038
Std Dev 20.61
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

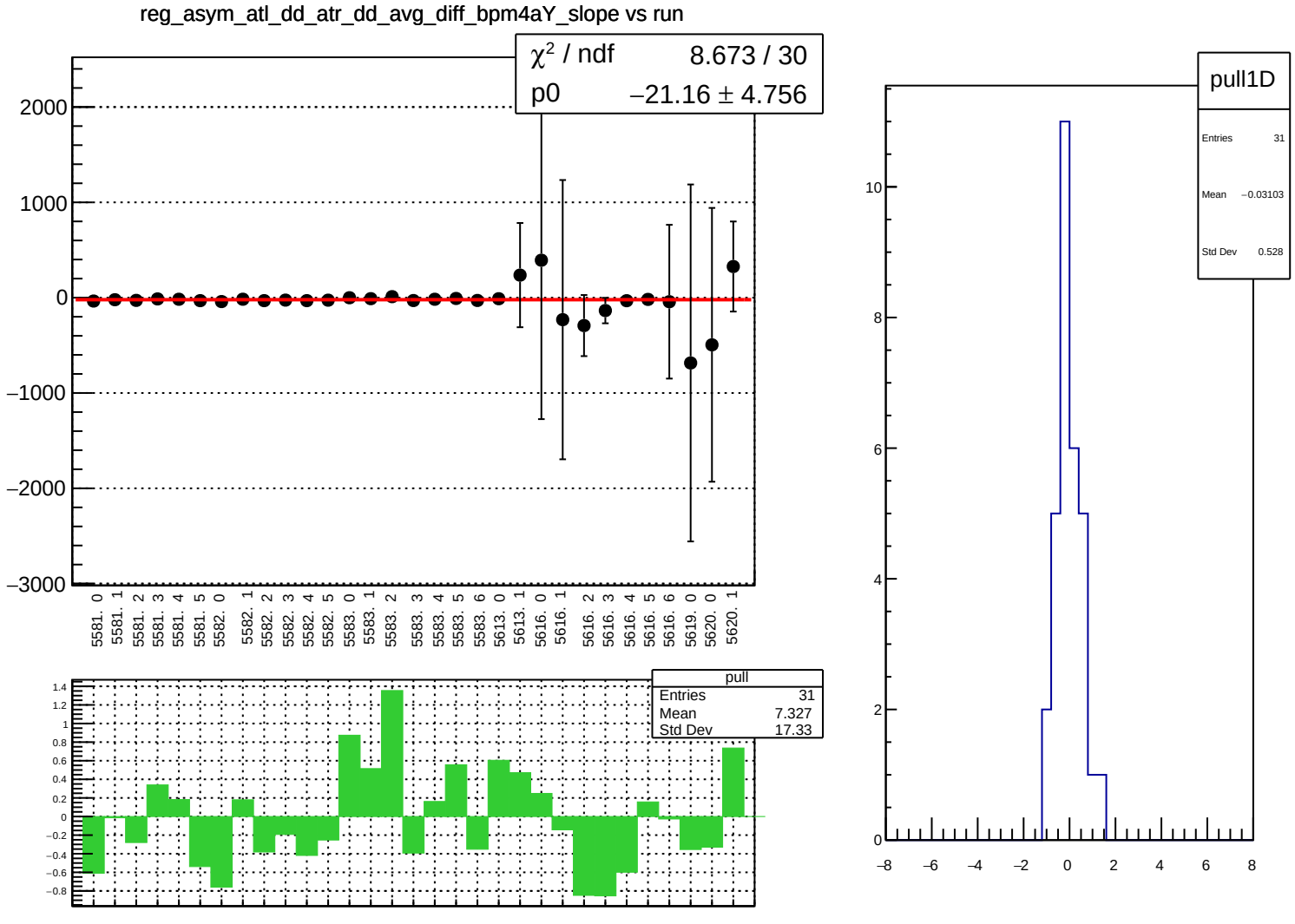

pull1D
Entries 31
Mean −0.06325
Std Dev 0.7383
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

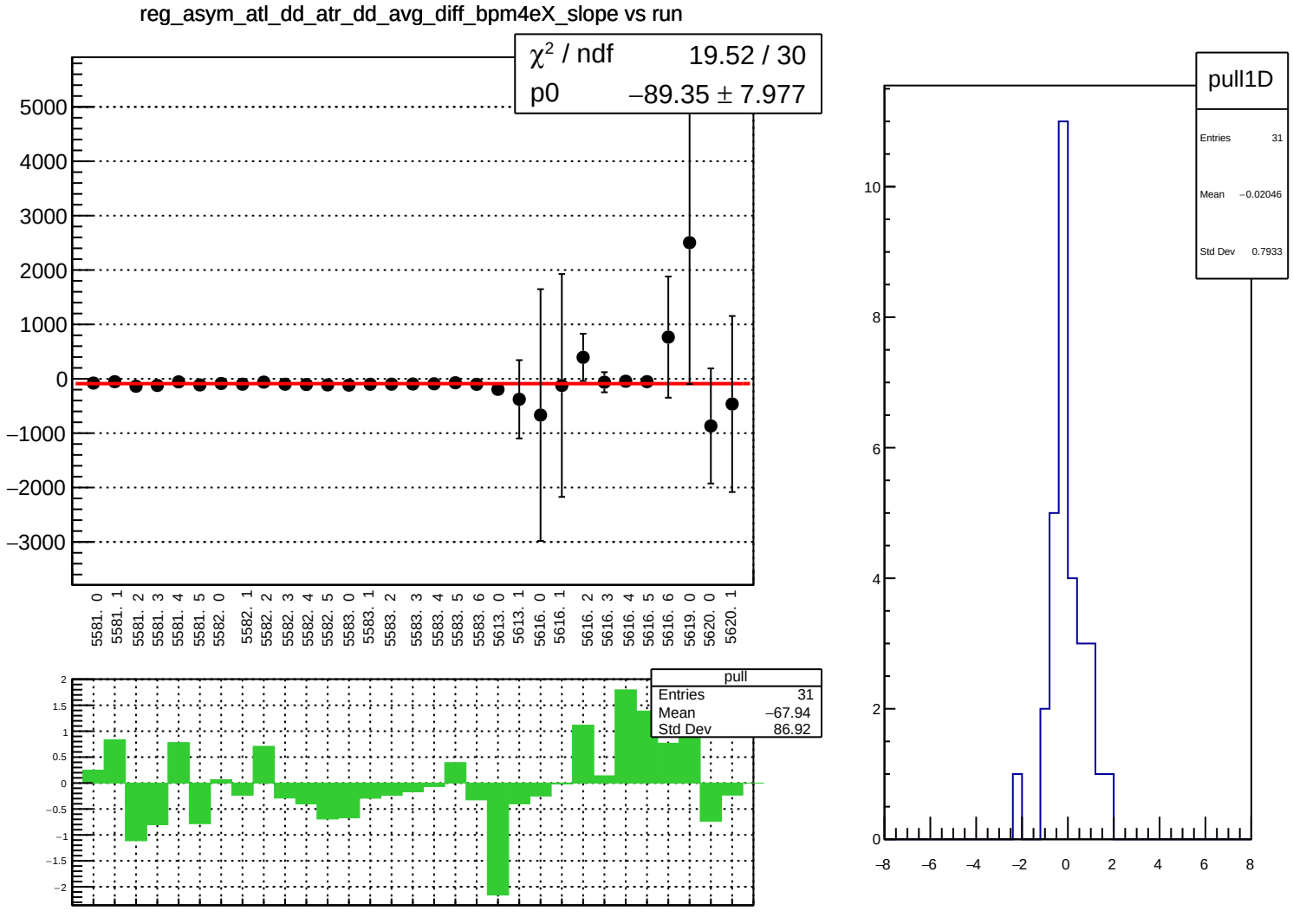

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.57 / 30
p0 −29.86 ± 6.862
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −36.27
Std Dev 54.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.044
Std Dev 0.7727
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

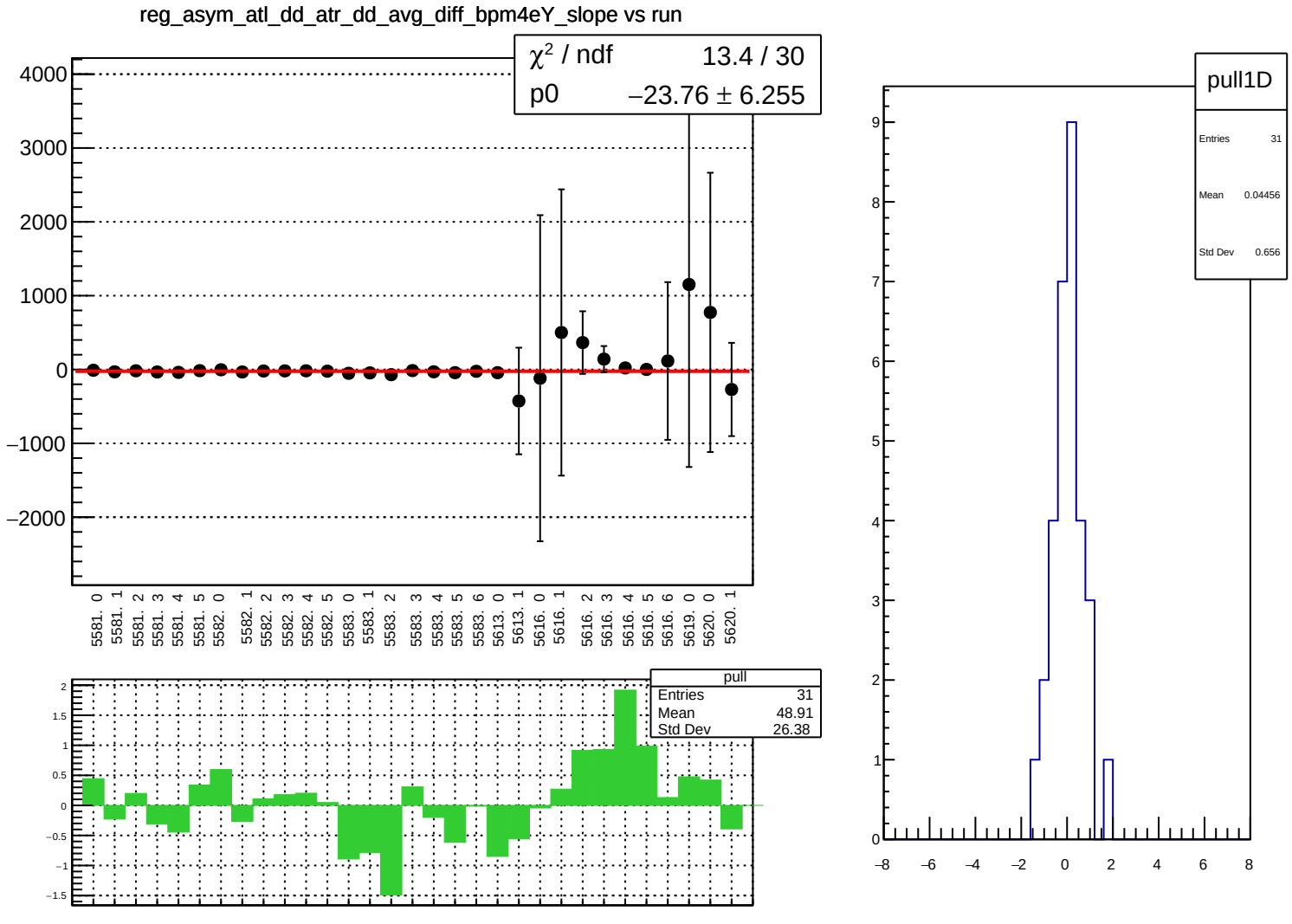

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 1.581e+04 / 30
p0 67.11 ± 0.2091
250
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −3.182
Std Dev 17.65
30
20
10
0
−10
−20
−30
−40

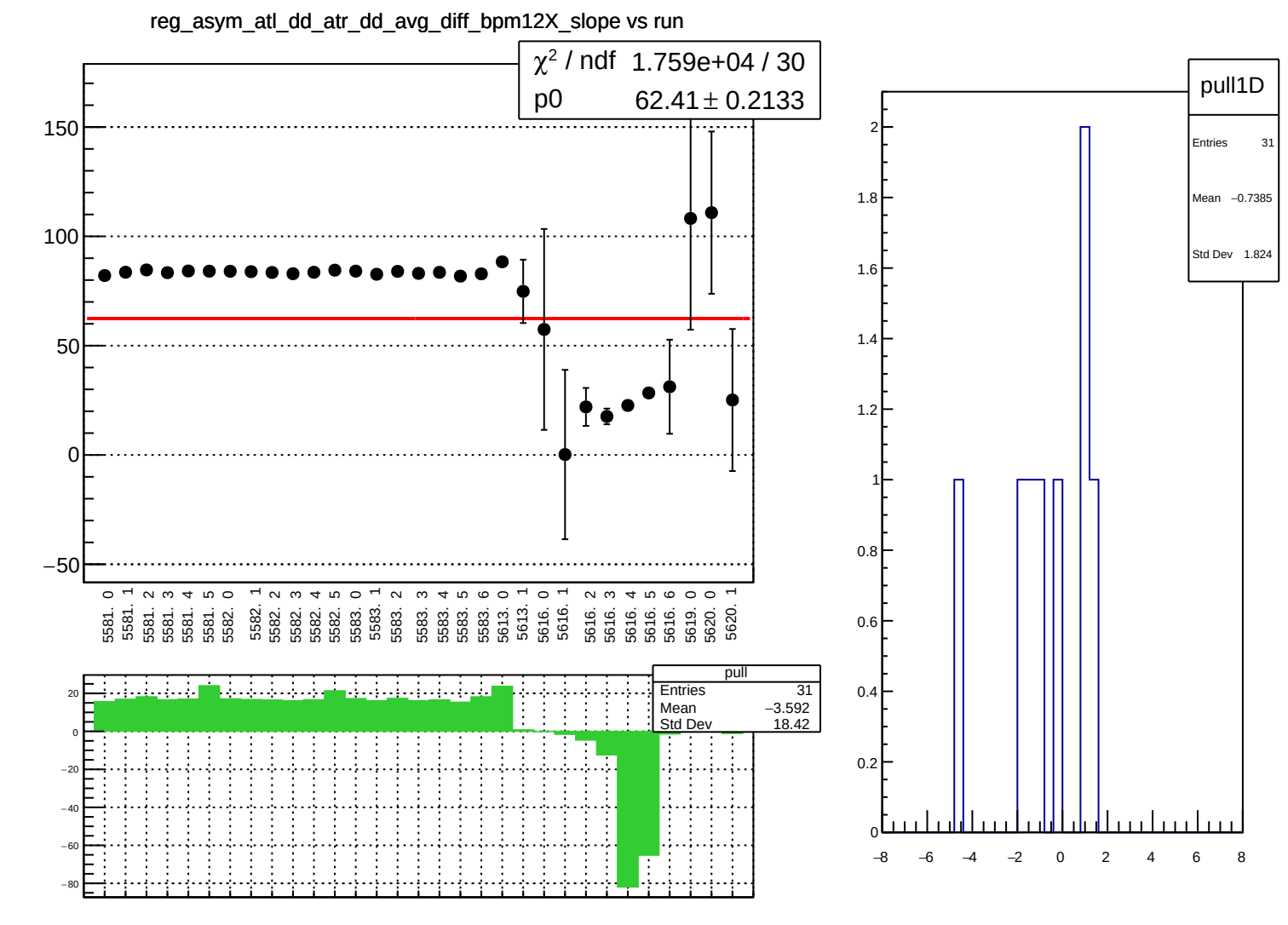

pull1D
Entries 31
Mean 0.1292
Std Dev 0.8351
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

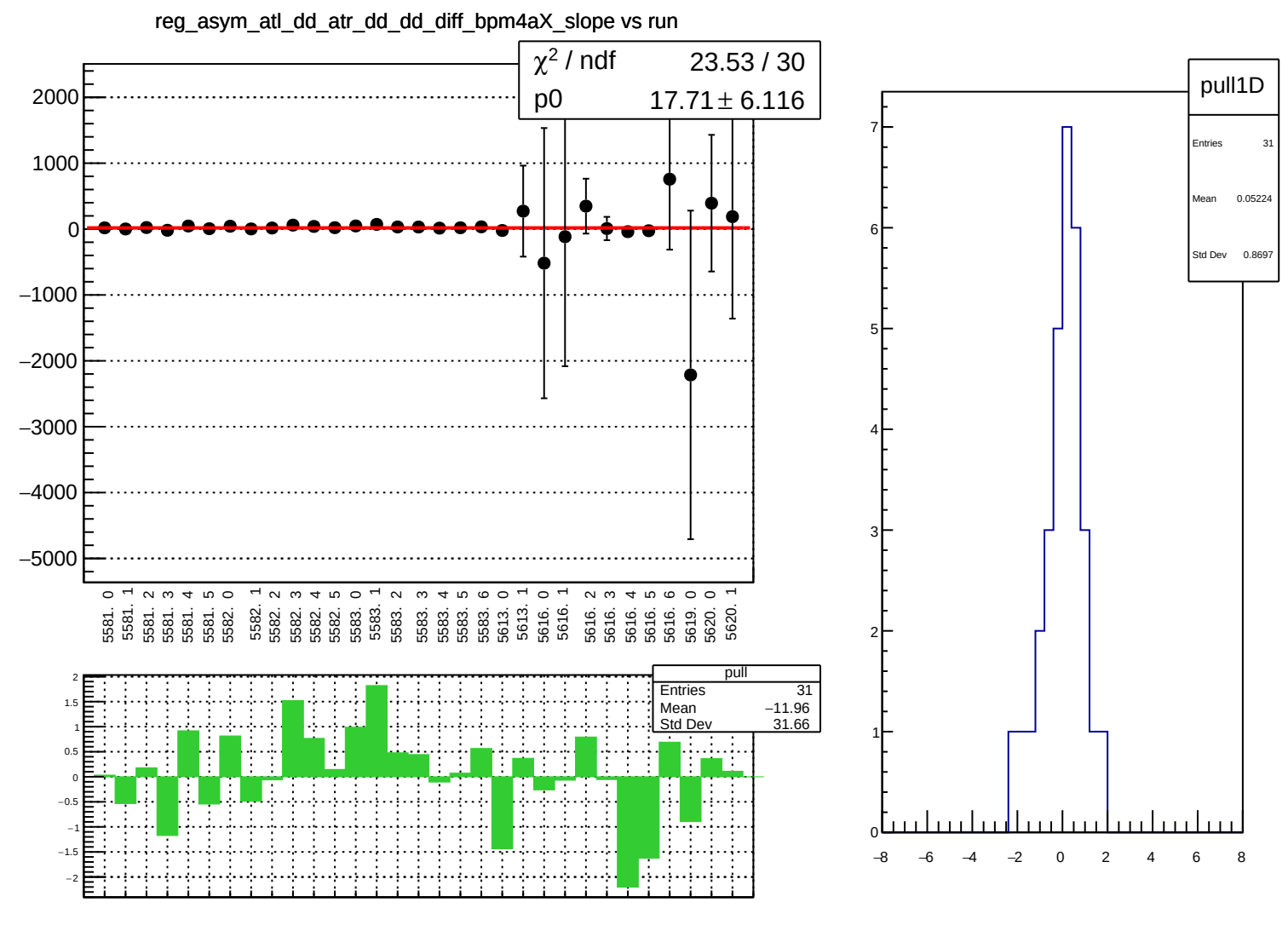

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.42 / 30
p0 75.27 ± 8.218
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −86.14
Std Dev 109.6
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean 0.006768
Std Dev 0.7279
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

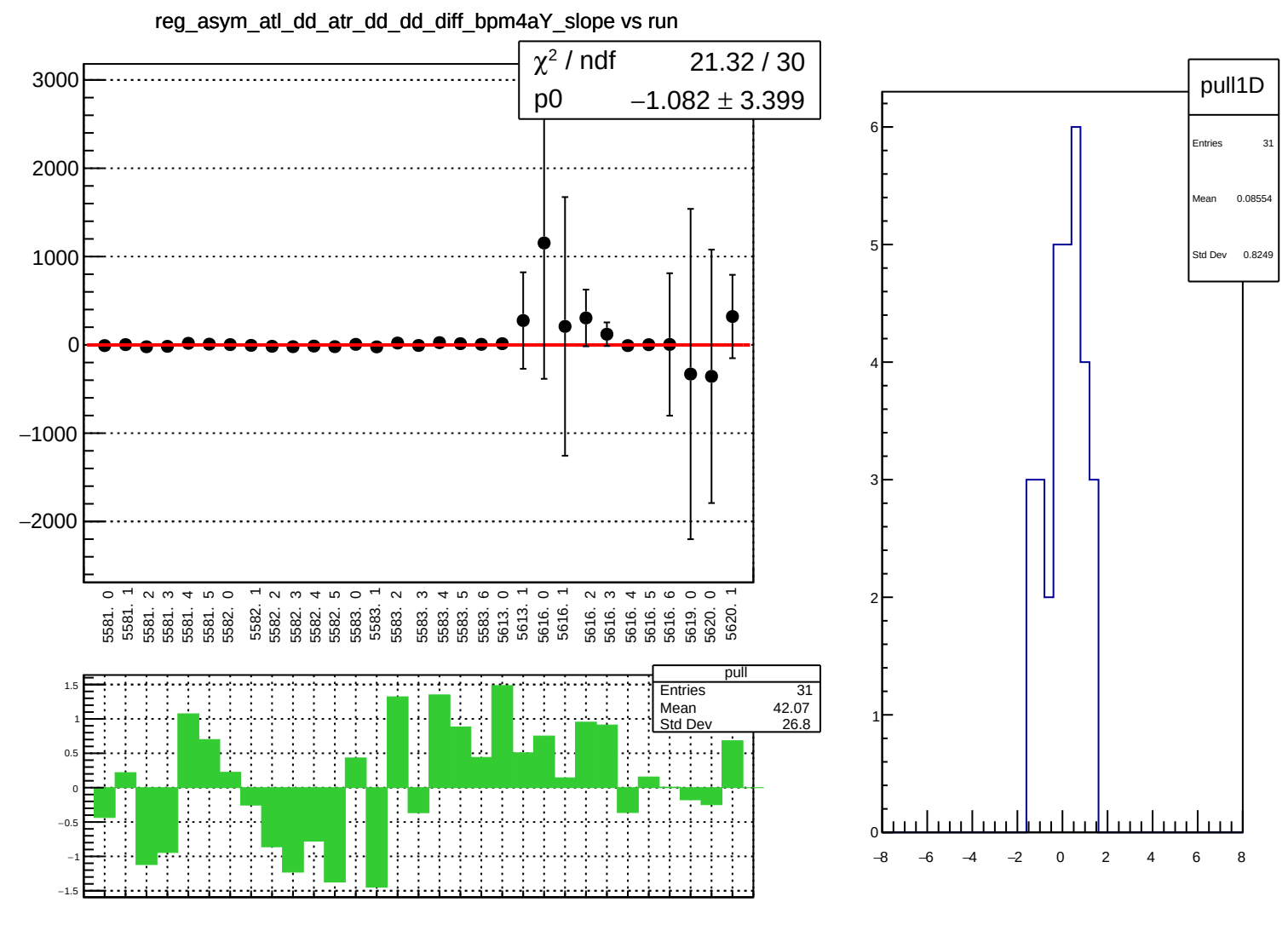

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.673 / 30
p0 −21.16 ± 4.756
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 7.327
Std Dev 17.33
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 −0.03103
Std Dev 0.528
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

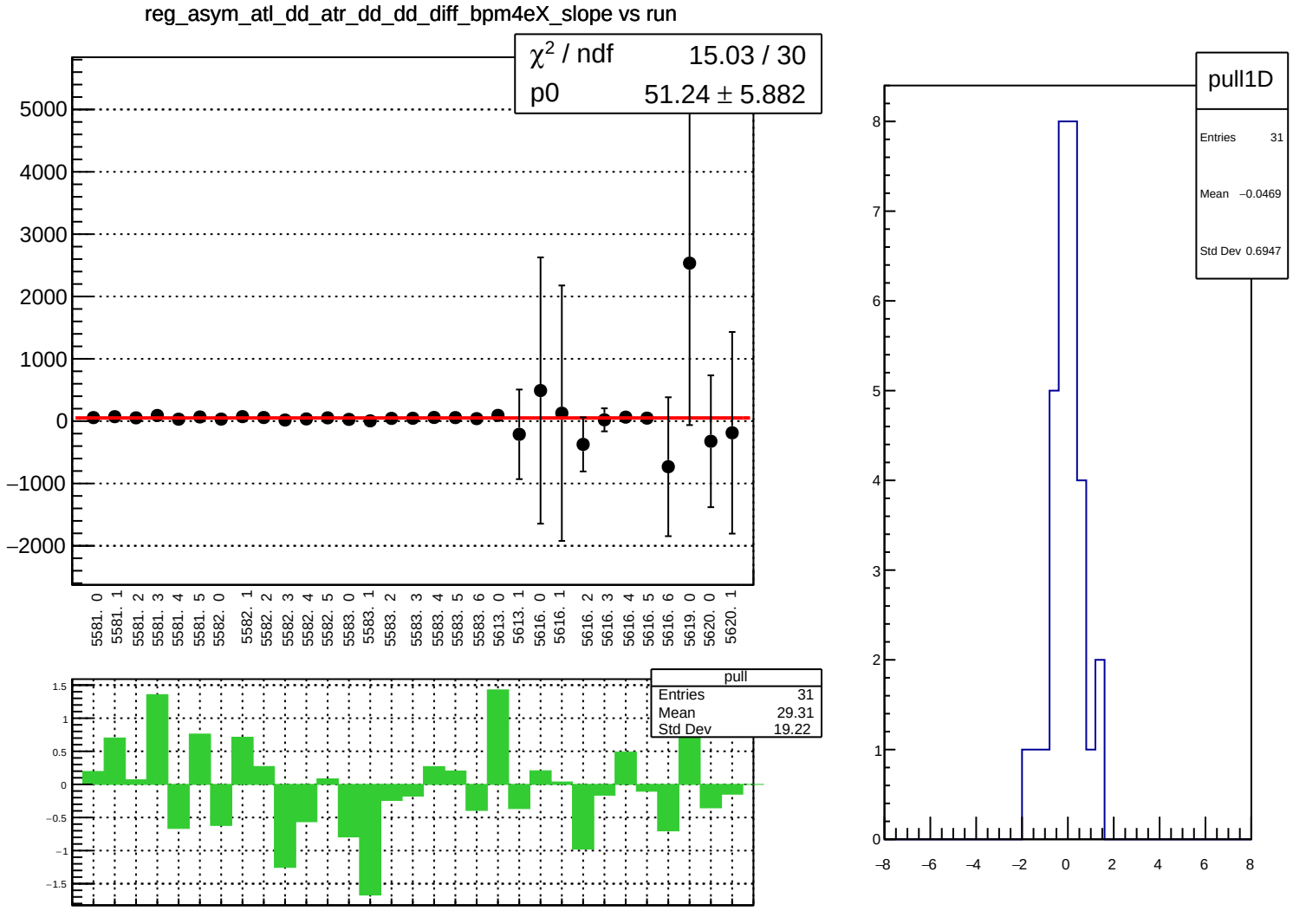

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.52 / 30
p0 −89.35 ± 7.977
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −67.94
Std Dev 86.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean −0.02046
Std Dev 0.7933
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

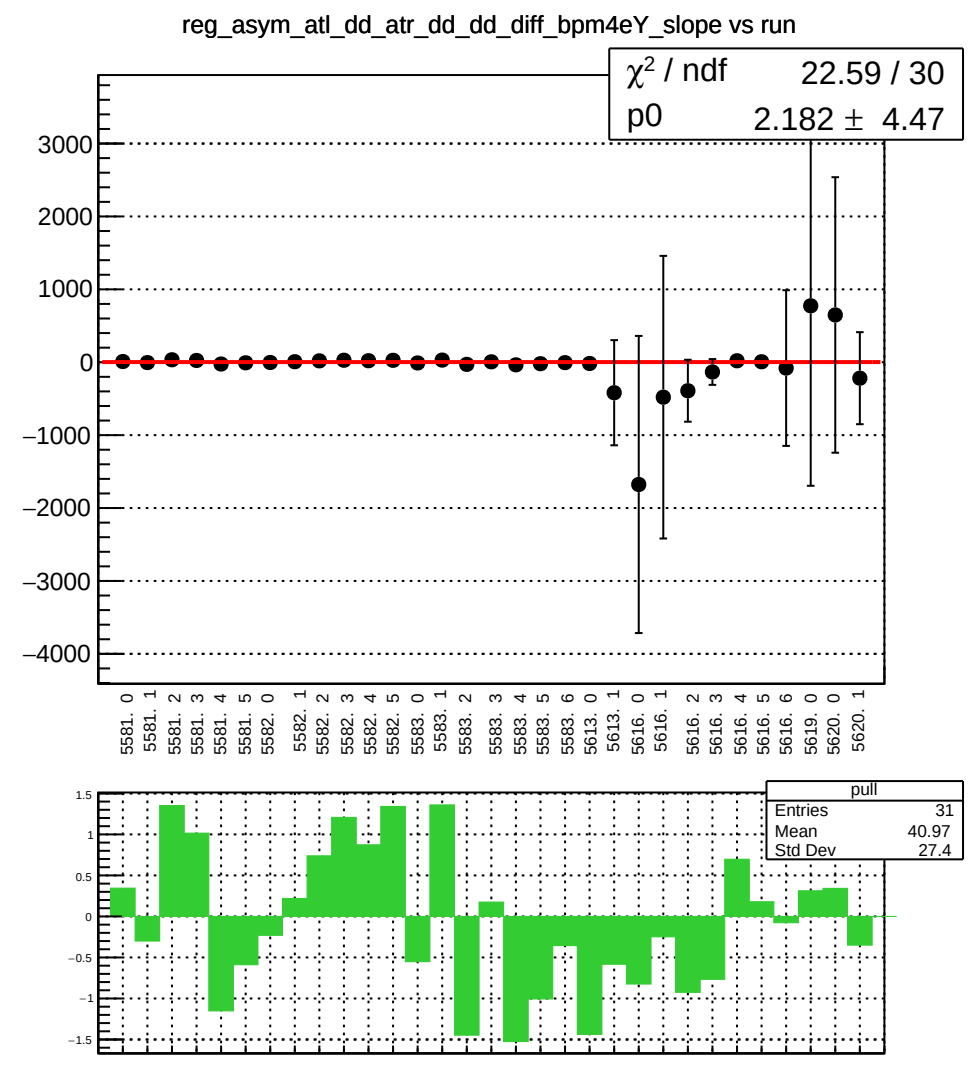

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.4 / 30
p0 −23.76 ± 6.255
4000
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 48.91
Std Dev 26.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.04456
Std Dev 0.656
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

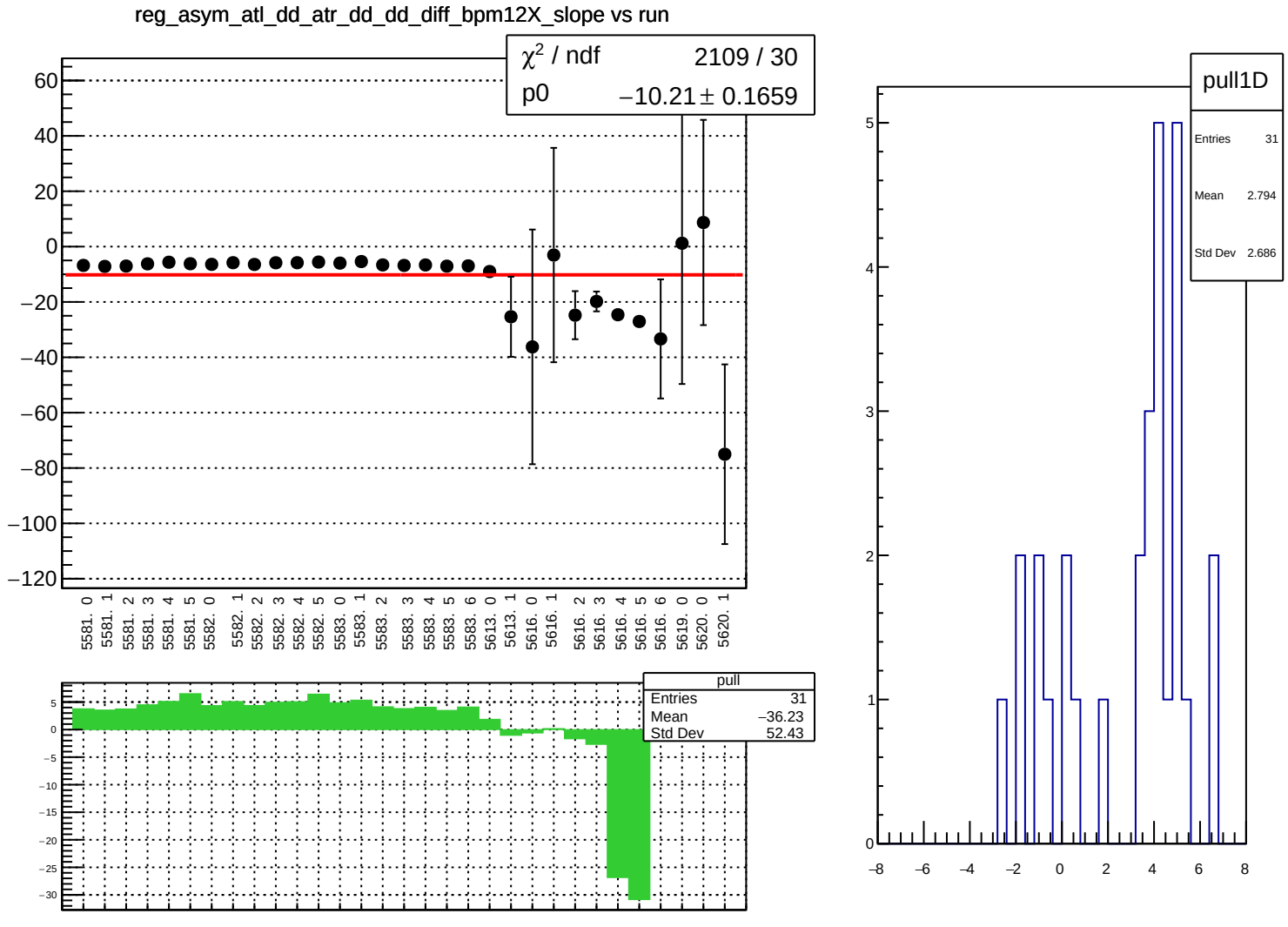

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1.759e+04 / 30
p0 62.41 ± 0.2133
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −3.592
Std Dev 18.42
20
0
−20
−40
−60
−80
pull1D
Entries 31
Mean −0.7385
Std Dev 1.824
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

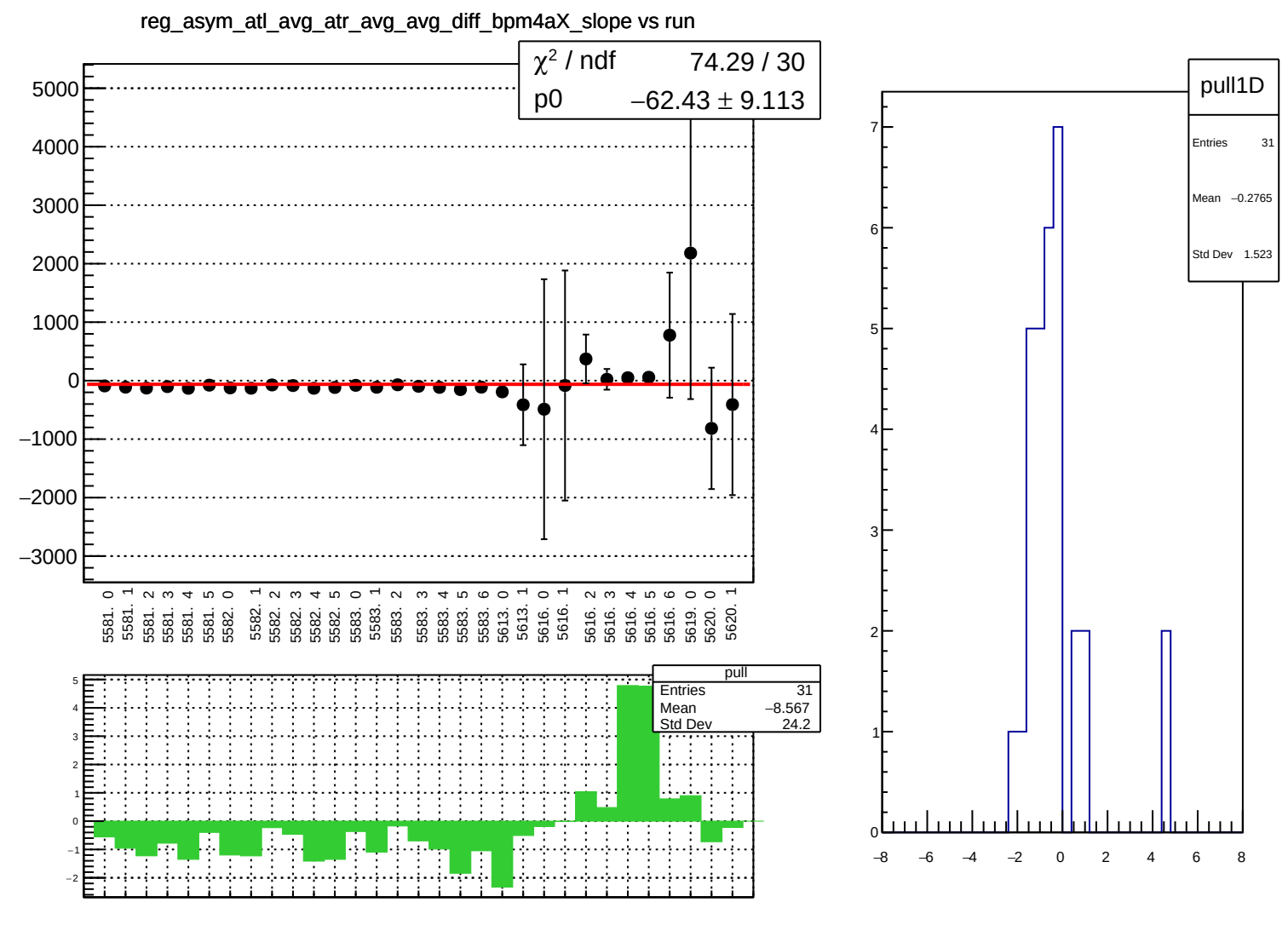

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.53 / 30
p0 17.71 ± 6.116
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −11.96
Std Dev 31.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 31
Mean 0.05224
Std Dev 0.8697
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

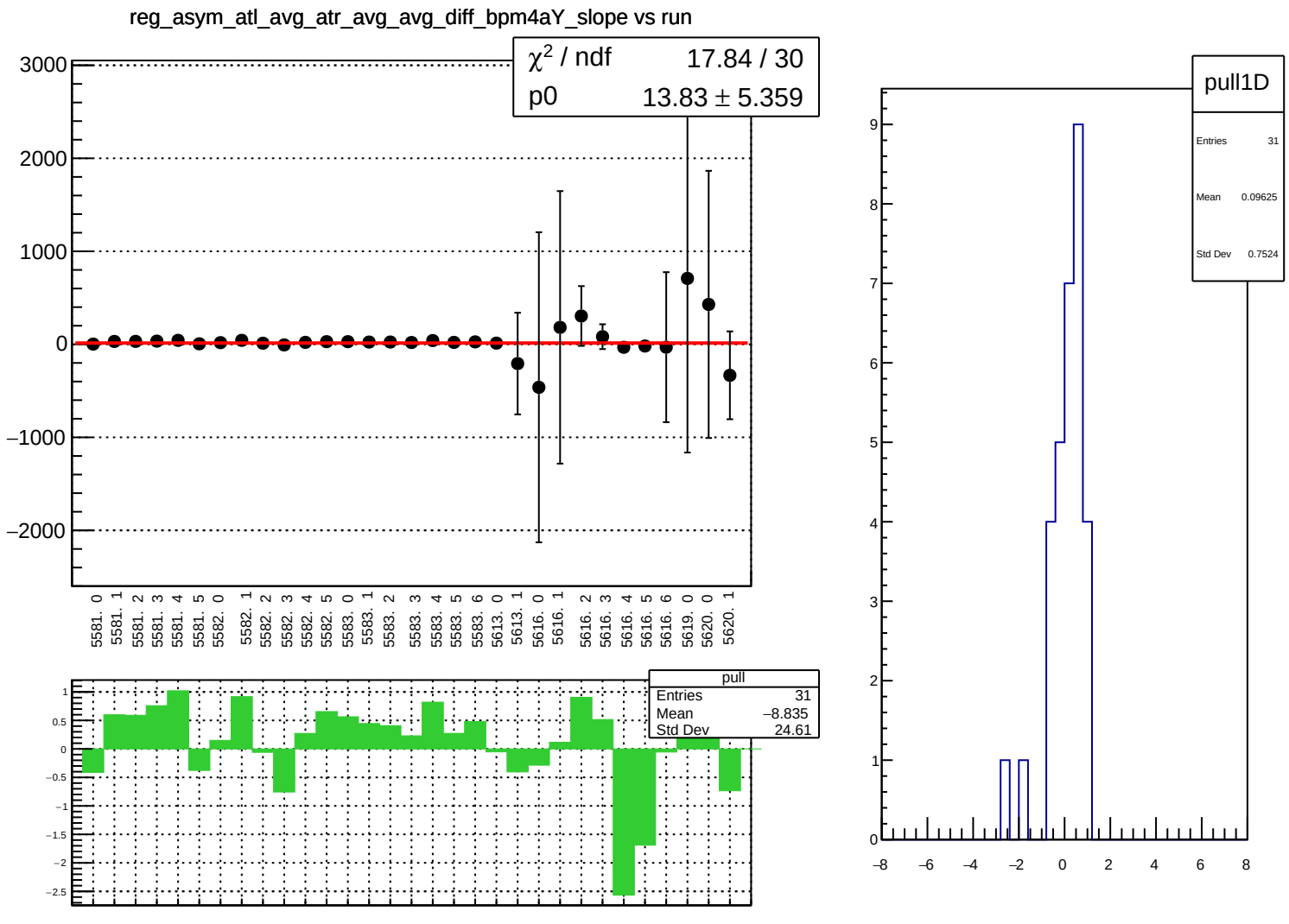

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.32 / 30
p0 −1.082 ± 3.399
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 42.07
Std Dev 26.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.08554
Std Dev 0.8249
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

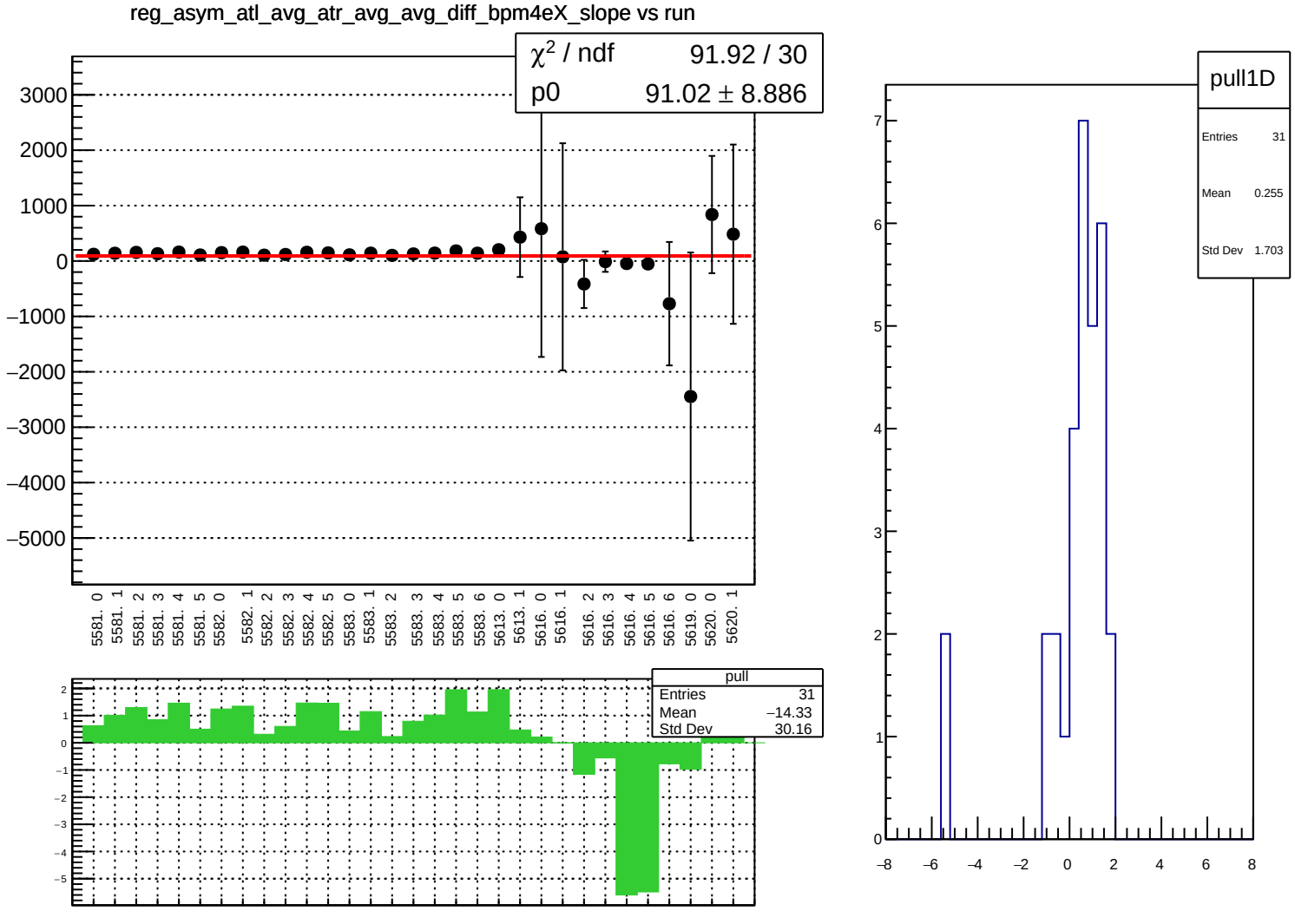

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.03 / 30
p0 51.24 ± 5.882
5000
4000
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 29.31
Std Dev 19.22
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.0469
Std Dev 0.6947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

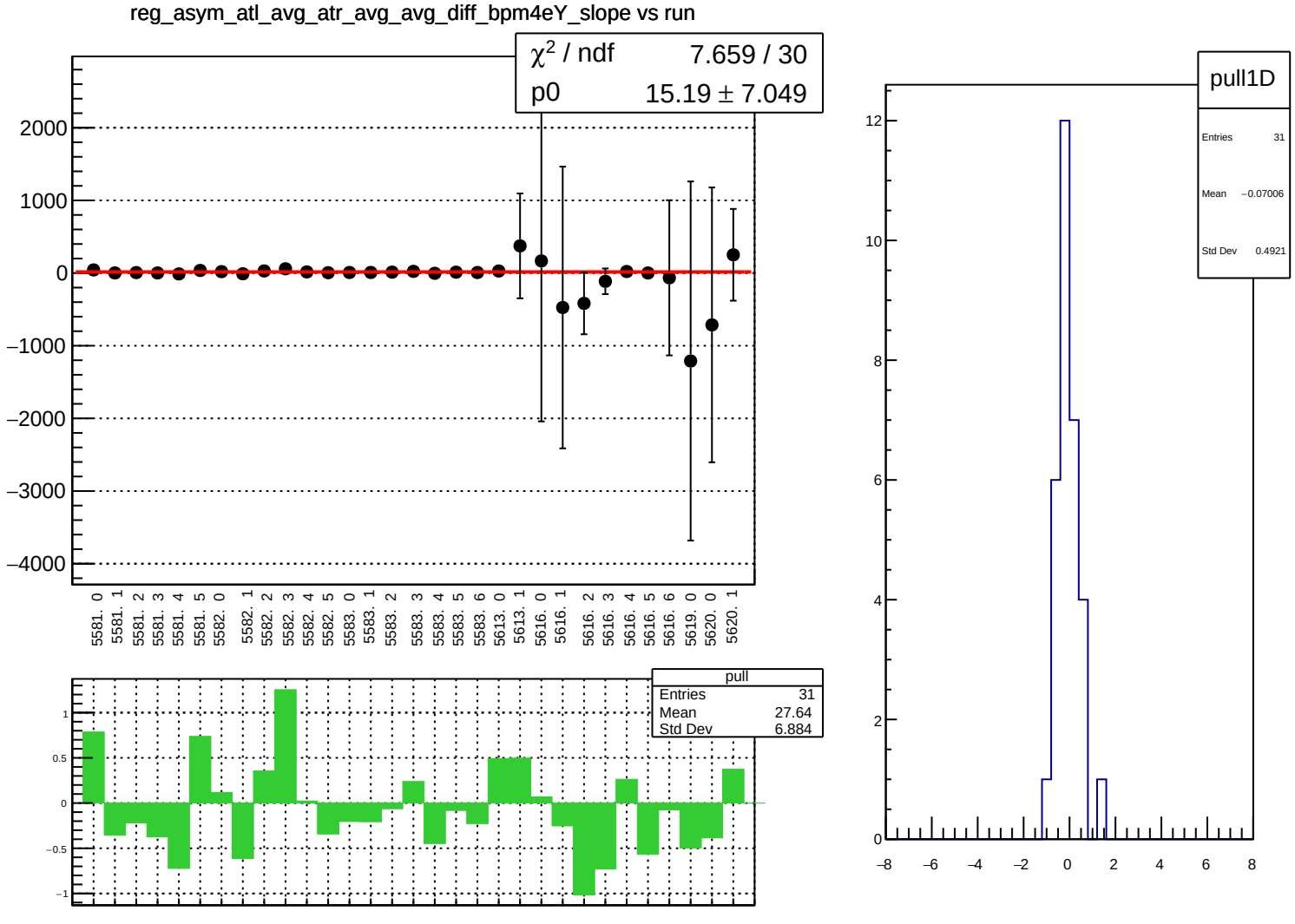

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.59 / 30
p0 2.182 ± 4.47
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 40.97
Std Dev 27.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.07122
Std Dev 0.8507
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

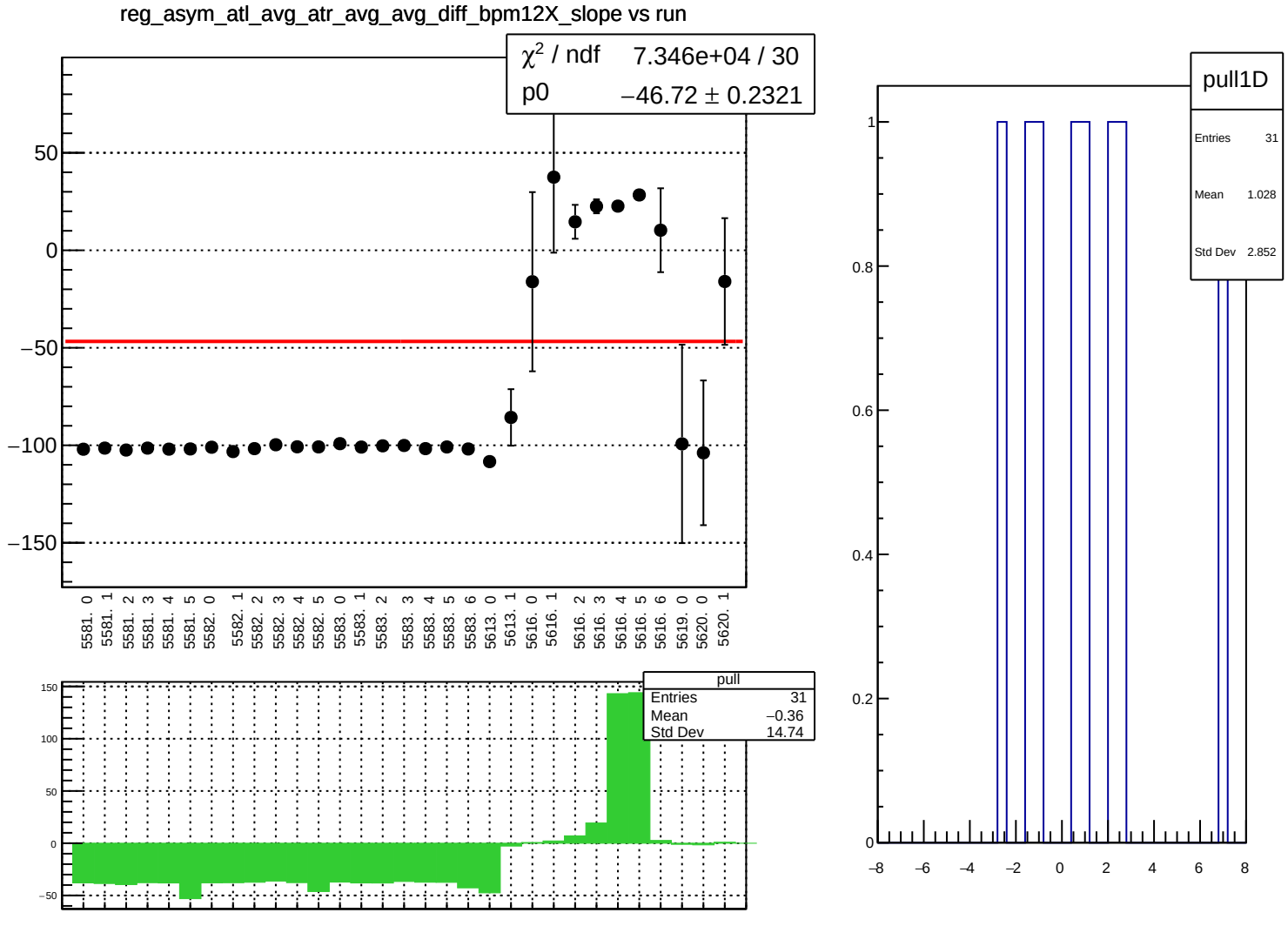

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 2109 / 30
p0 −10.21 ± 0.1659
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −36.23
Std Dev 52.43
5
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 31
Mean 2.794
Std Dev 2.686
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

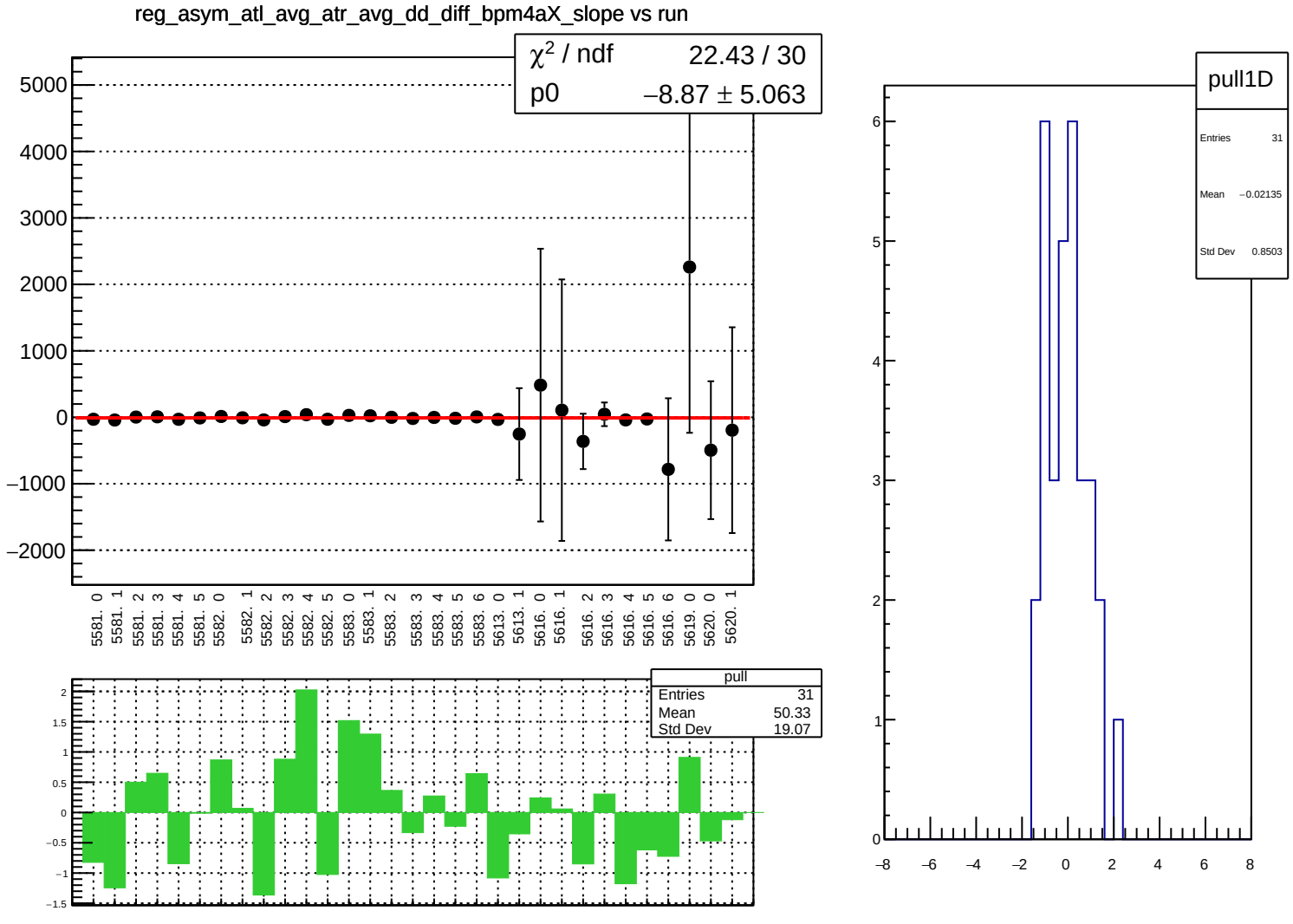

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 74.29 / 30
p0 −62.43 ± 9.113
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −8.567
Std Dev 24.2
pull1D
Entries 31
Mean −0.2765
Std Dev 1.523

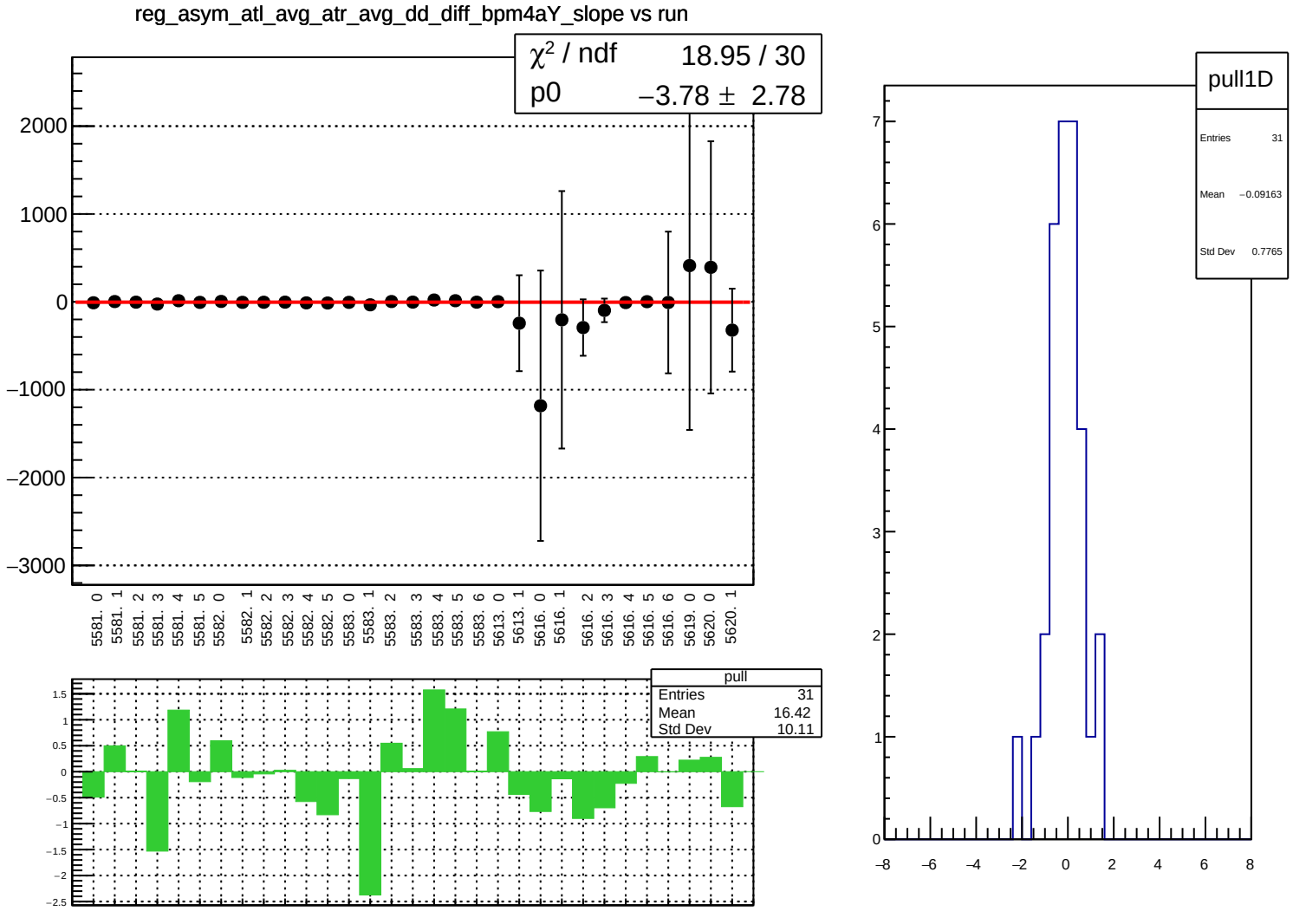

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.84 / 30
p0 13.83 ± 5.359
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −8.835
Std Dev 24.61
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean 0.09625
Std Dev 0.7524
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

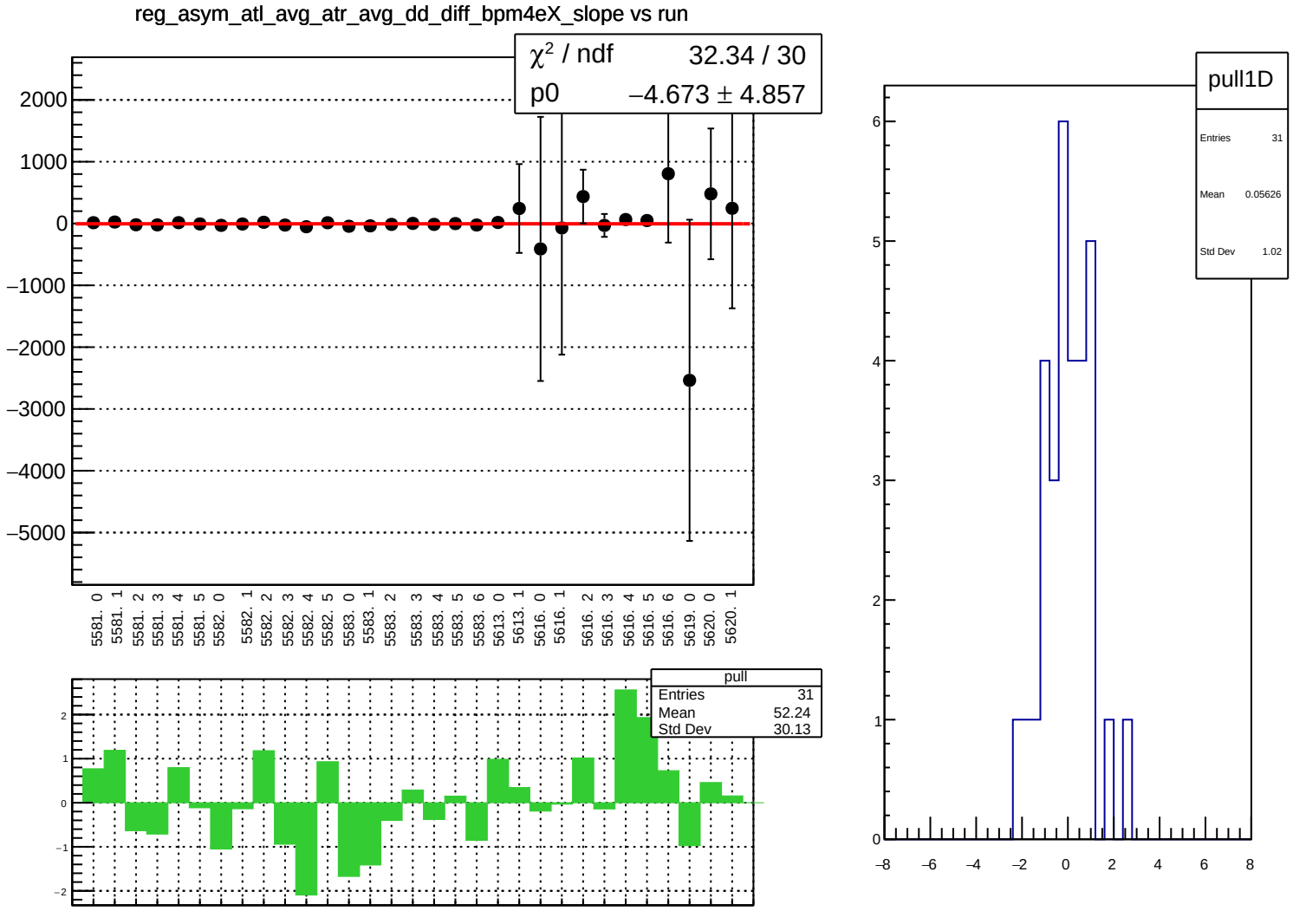

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.92 / 30
p0 91.02 ± 8.886
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −14.33
Std Dev 30.16
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean 0.255
Std Dev 1.703
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

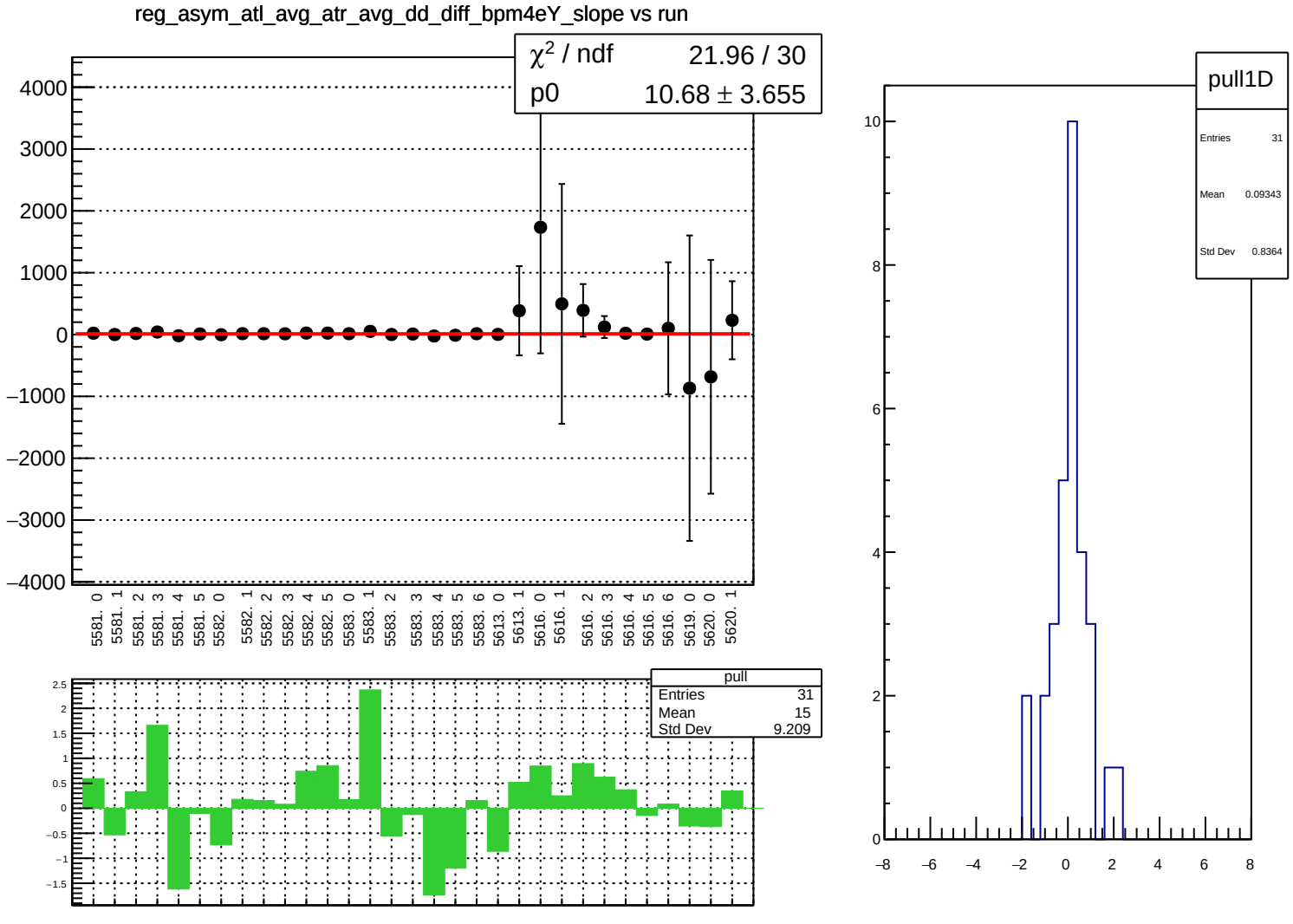

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.659 / 30
p0 15.19 ± 7.049
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 27.64
Std Dev 6.884
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.07006
Std Dev 0.4921
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

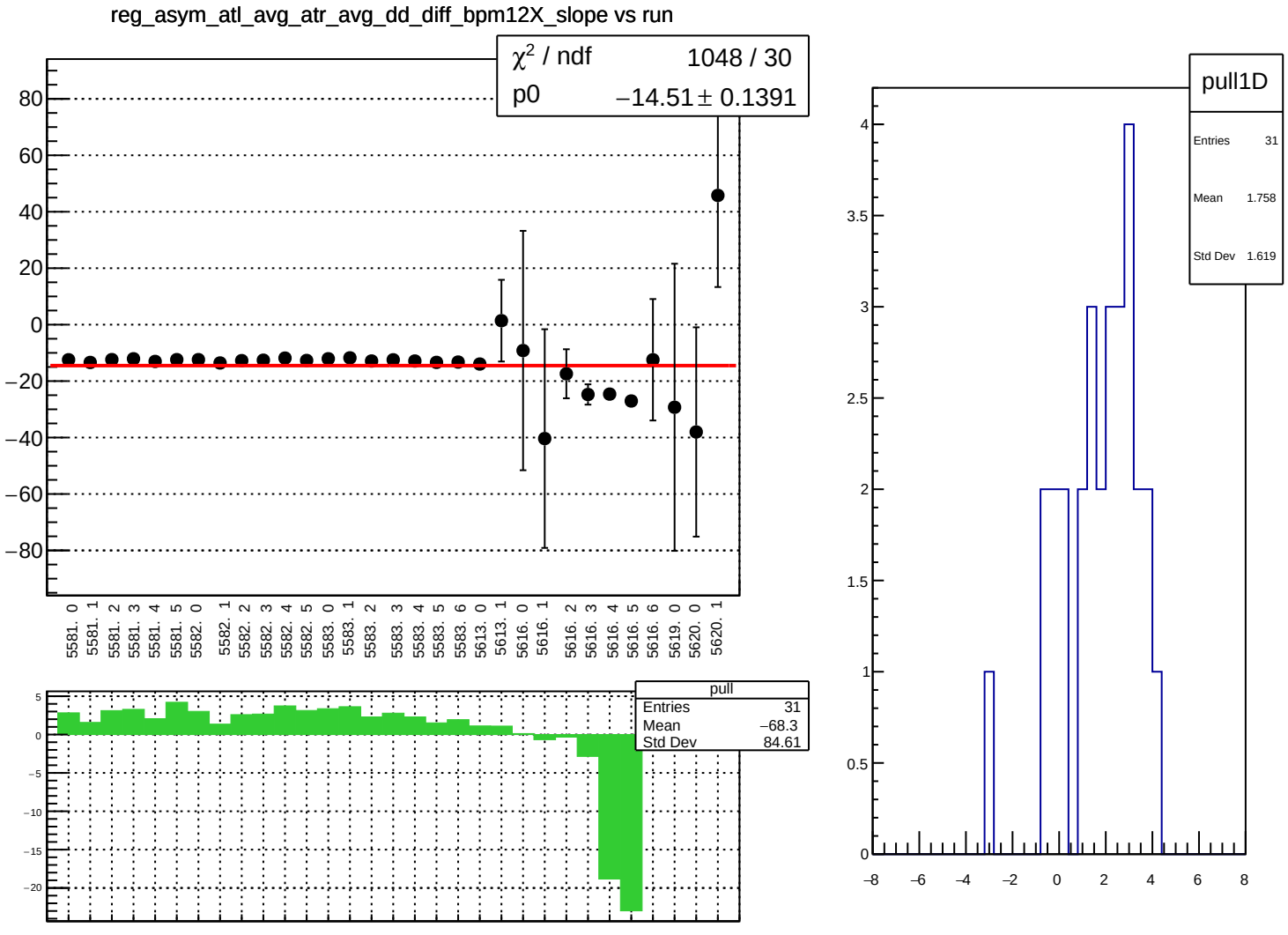

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 7.346e+04 / 30
p0 −46.72 ± 0.2321
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −0.36
Std Dev 14.74
150
100
50
0
−50
pull1D
Entries 31
Mean 1.028
Std Dev 2.852
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

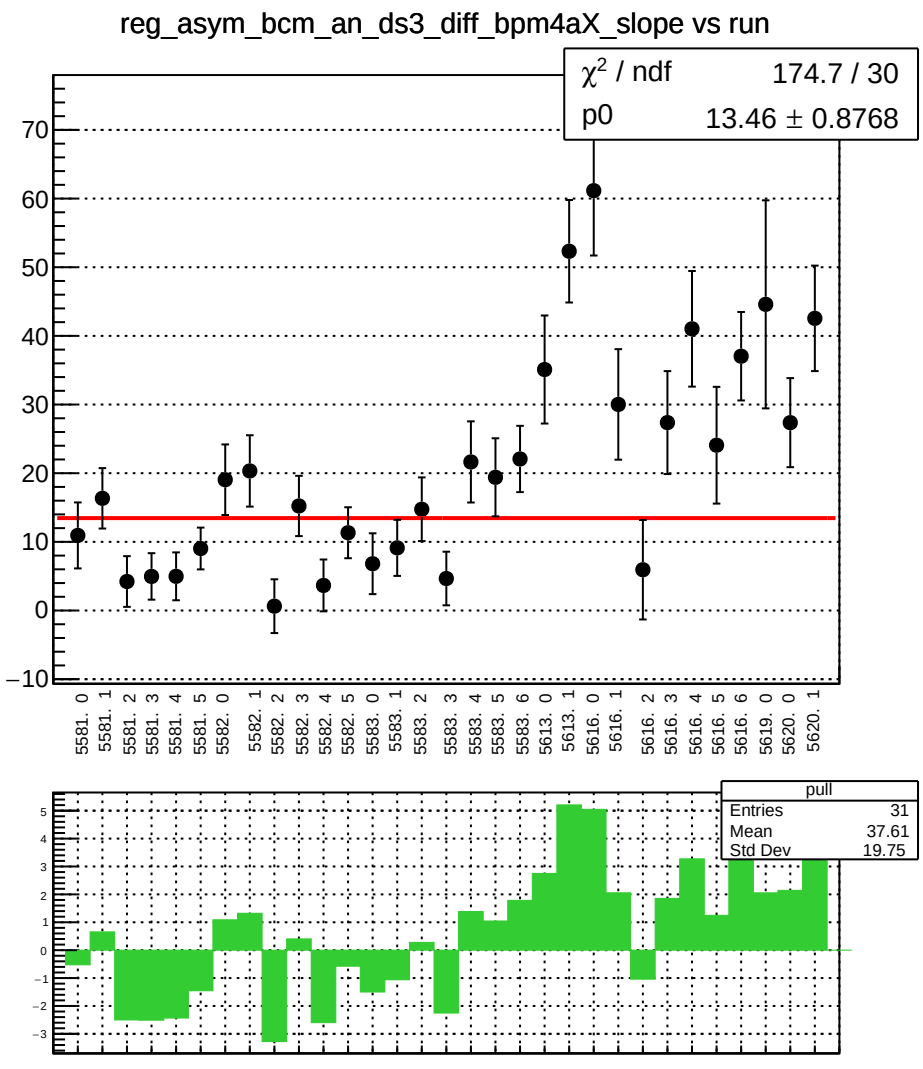

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 22.43 / 30
p0 −8.87 ± 5.063
5000
4000
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 50.33
Std Dev 19.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean −0.02135
Std Dev 0.8503
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

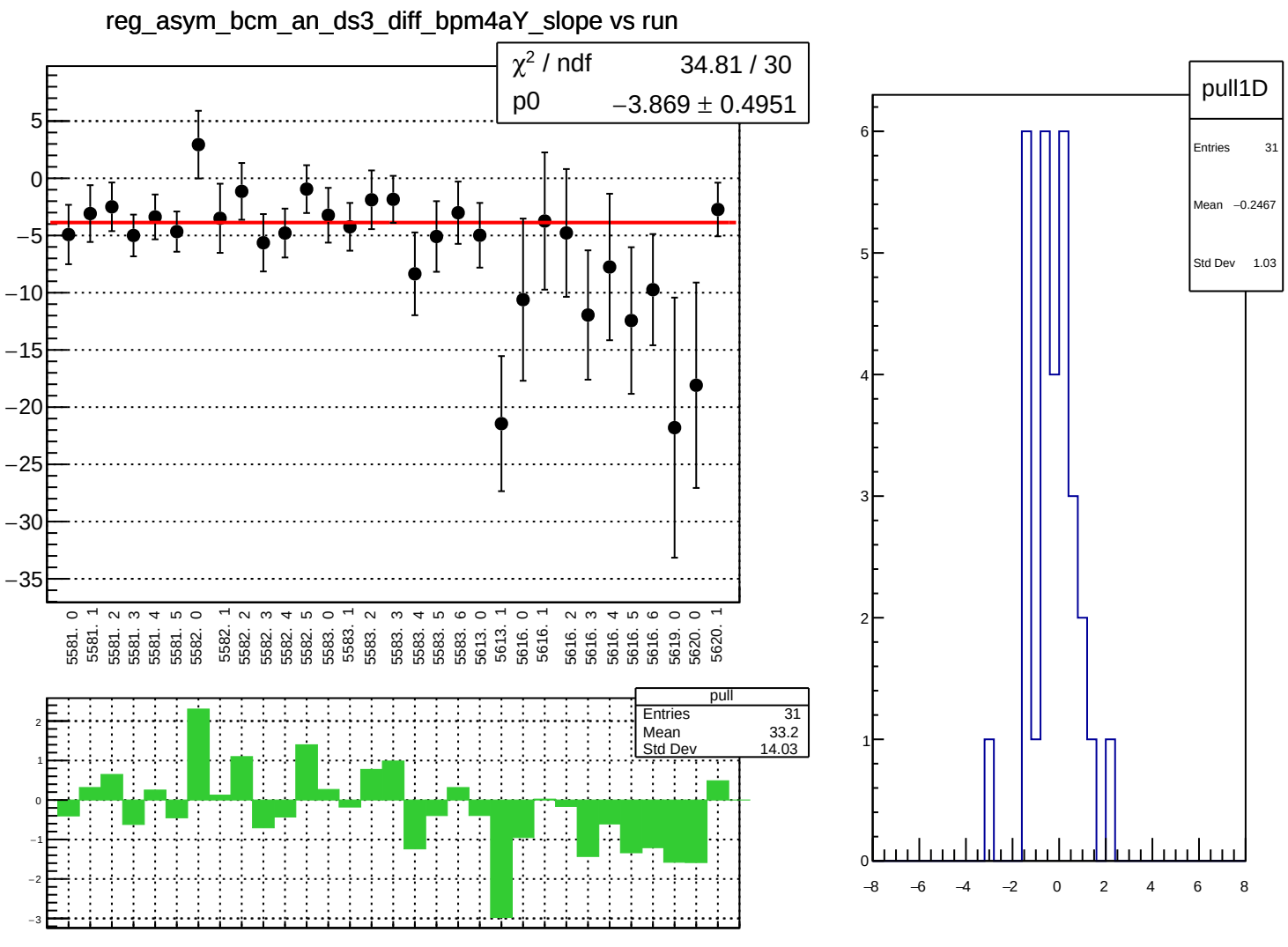

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.95 / 30
p0 −3.78 ± 2.78
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 16.42
Std Dev 10.11
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 31
Mean −0.09163
Std Dev 0.7765
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

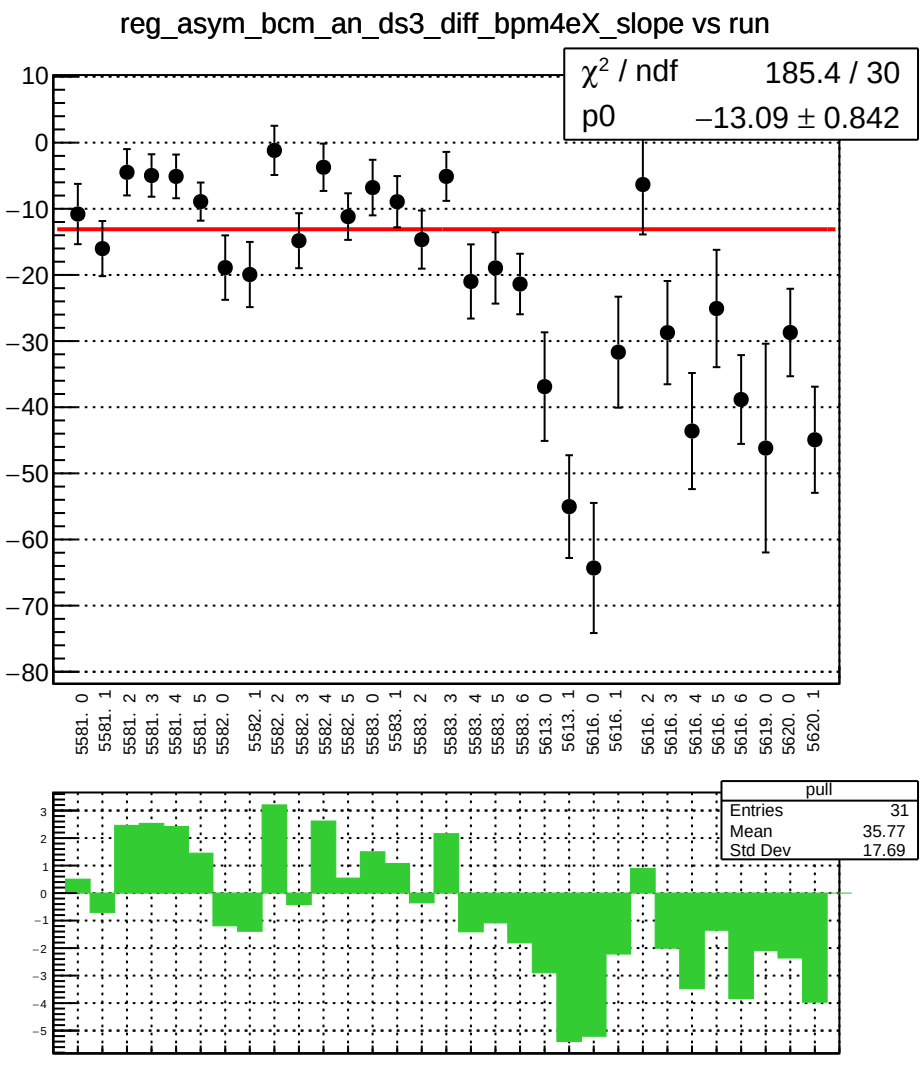

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.34 / 30
p0 −4.673 ± 4.857
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 52.24
Std Dev 30.13
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.05626
Std Dev 1.02
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

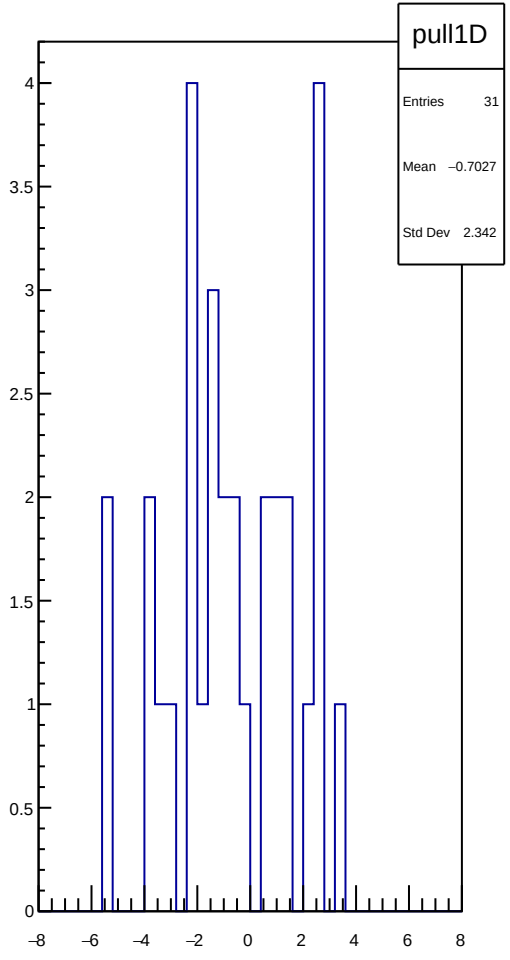

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.96 / 30
p0 10.68 ± 3.655
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 15
Std Dev 9.209
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 31
Mean 0.09343
Std Dev 0.8364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

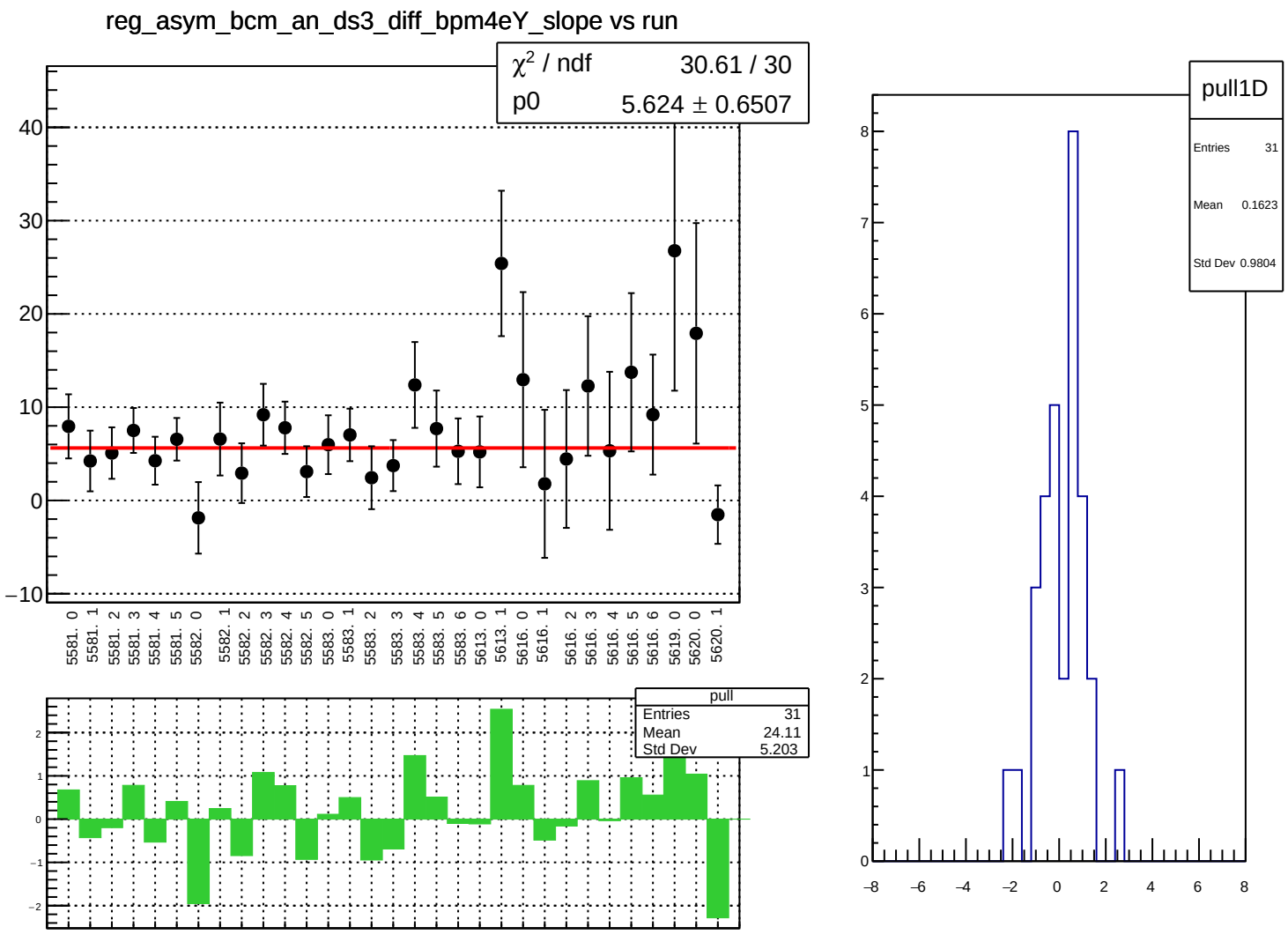

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1048 / 30
p0 −14.51 ± 0.1391
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean −68.3
Std Dev 84.61
5
0
−5
−10
−15
−20
pull1D
Entries 31
Mean 1.758
Std Dev 1.619
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

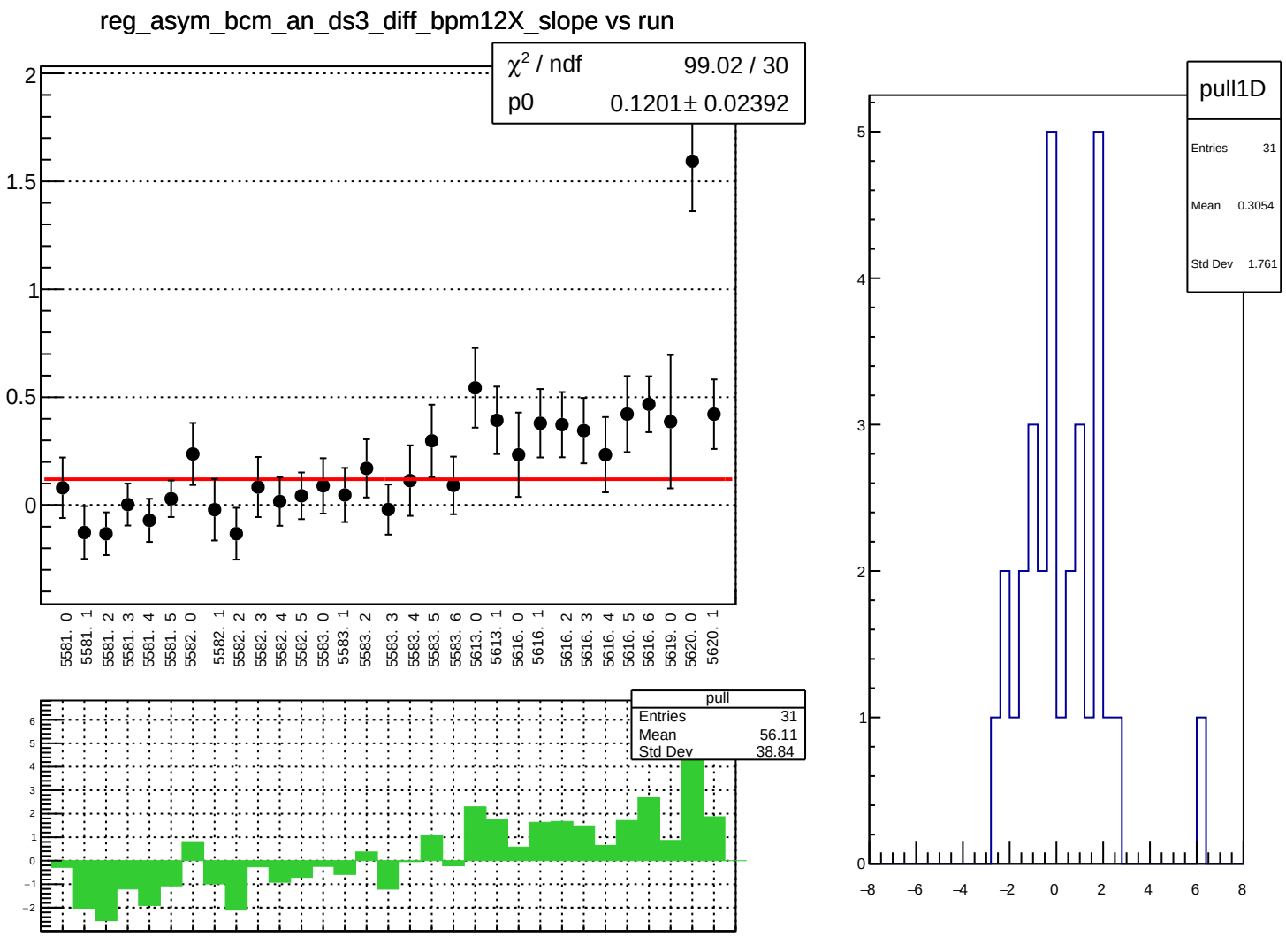

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 174.7 / 30
p0 13.46 ± 0.8768
70
60
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.61
Std Dev 19.75
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.6234
Std Dev 2.29
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

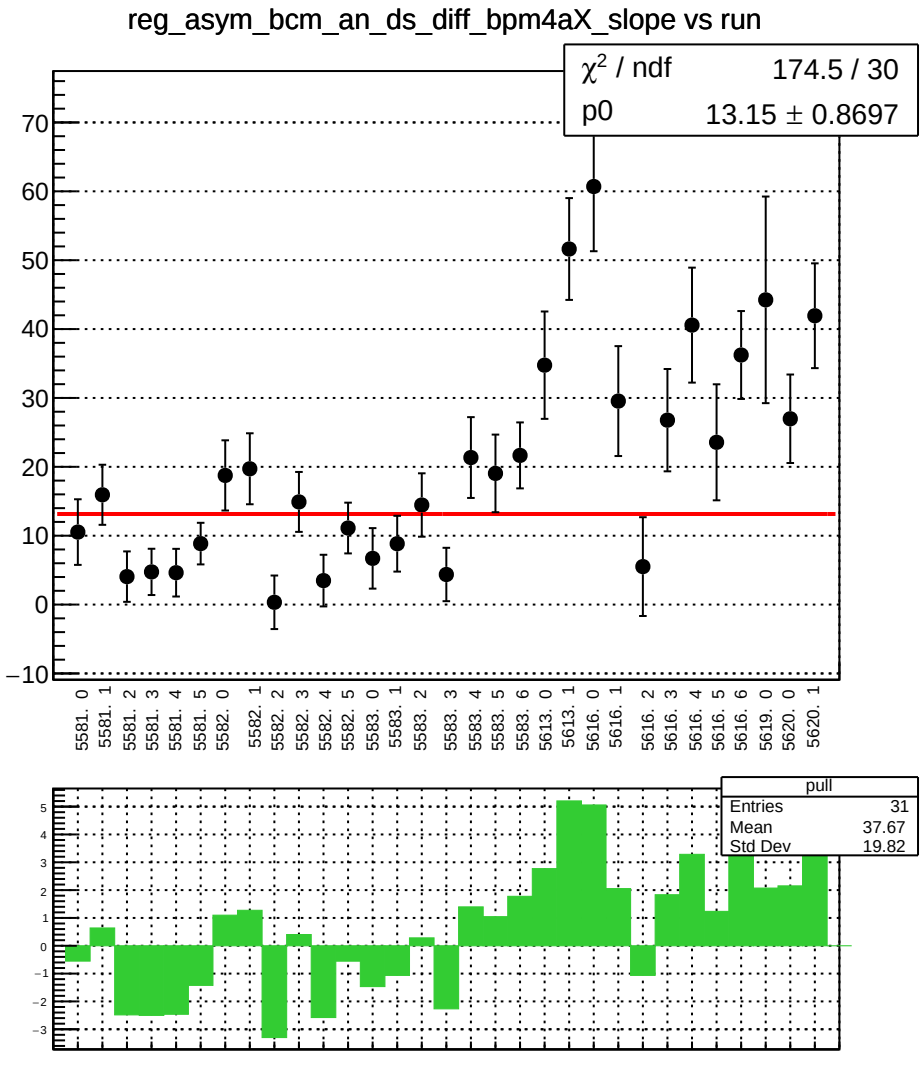

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 34.81 / 30
p0 −3.869 ± 0.4951
5
0
−5
−10
−15
−20
−25
−30
−35
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 33.2
Std Dev 14.03
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean −0.2467
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

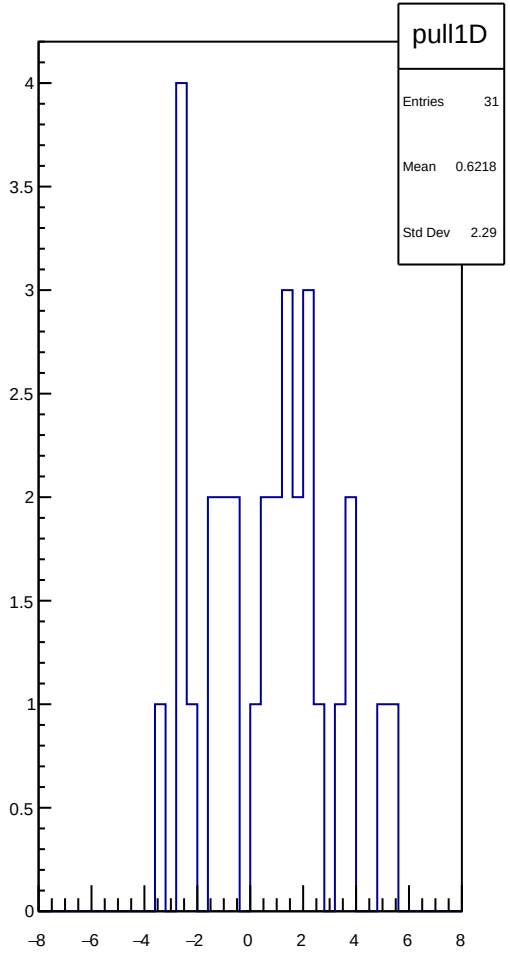

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 185.4 / 30
p0 −13.09 ± 0.842
pull
Entries 31
Mean 35.77
Std Dev 17.69

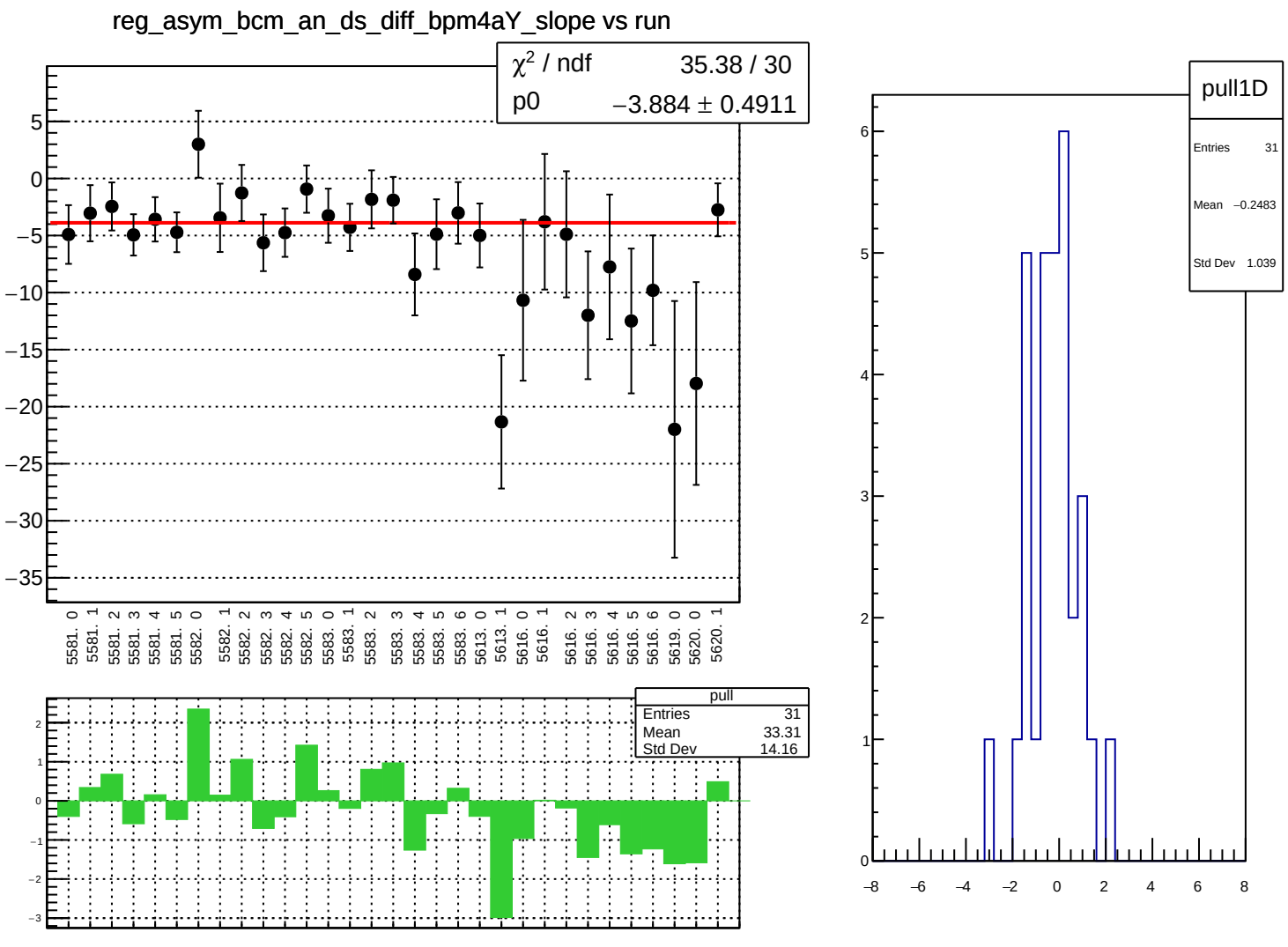

pull1D
Entries 31
Mean −0.7027
Std Dev 2.342

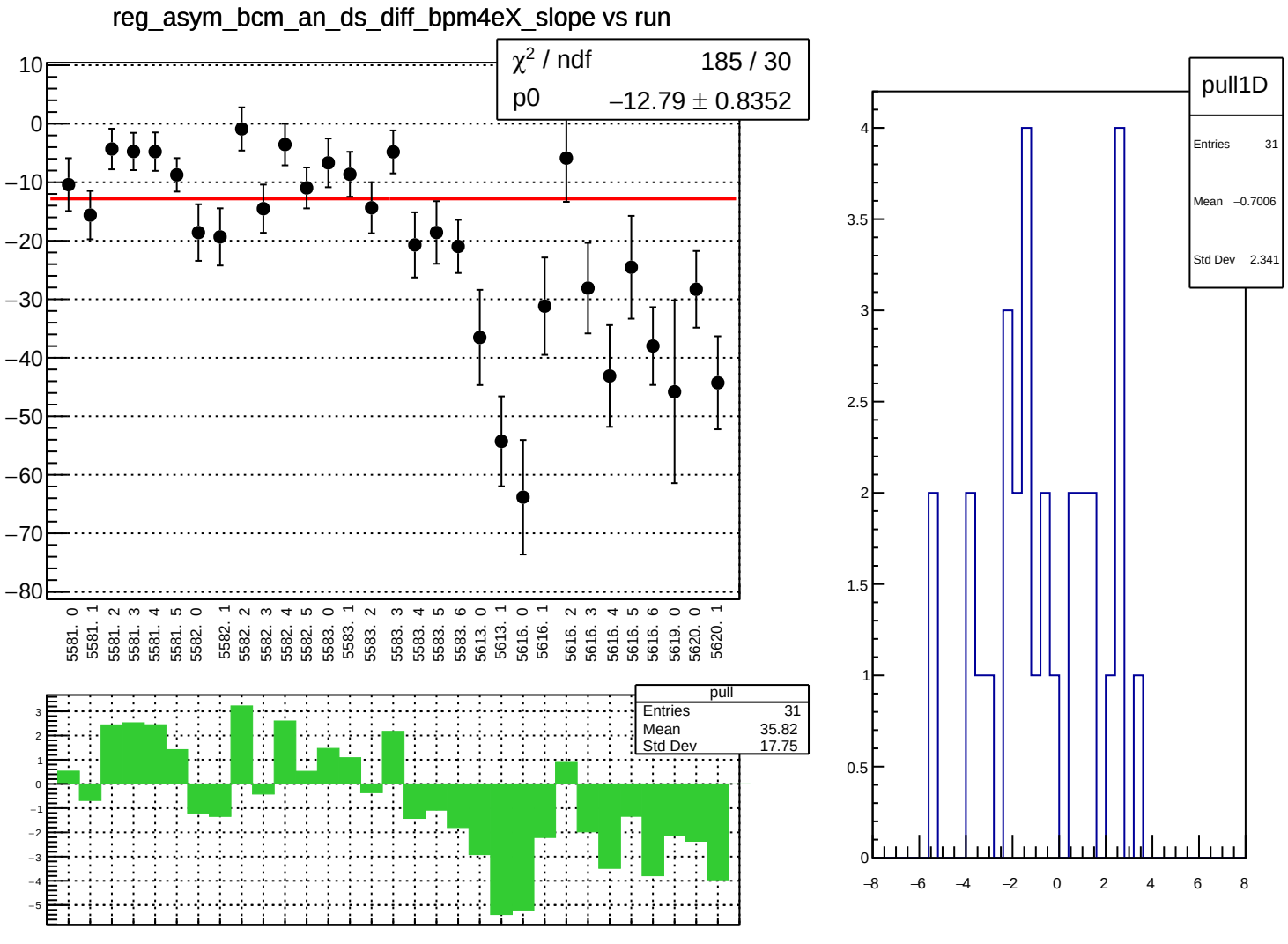

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 30.61 / 30
p0 5.624 ± 0.6507
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.11
Std Dev 5.203
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1623
Std Dev 0.9804
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

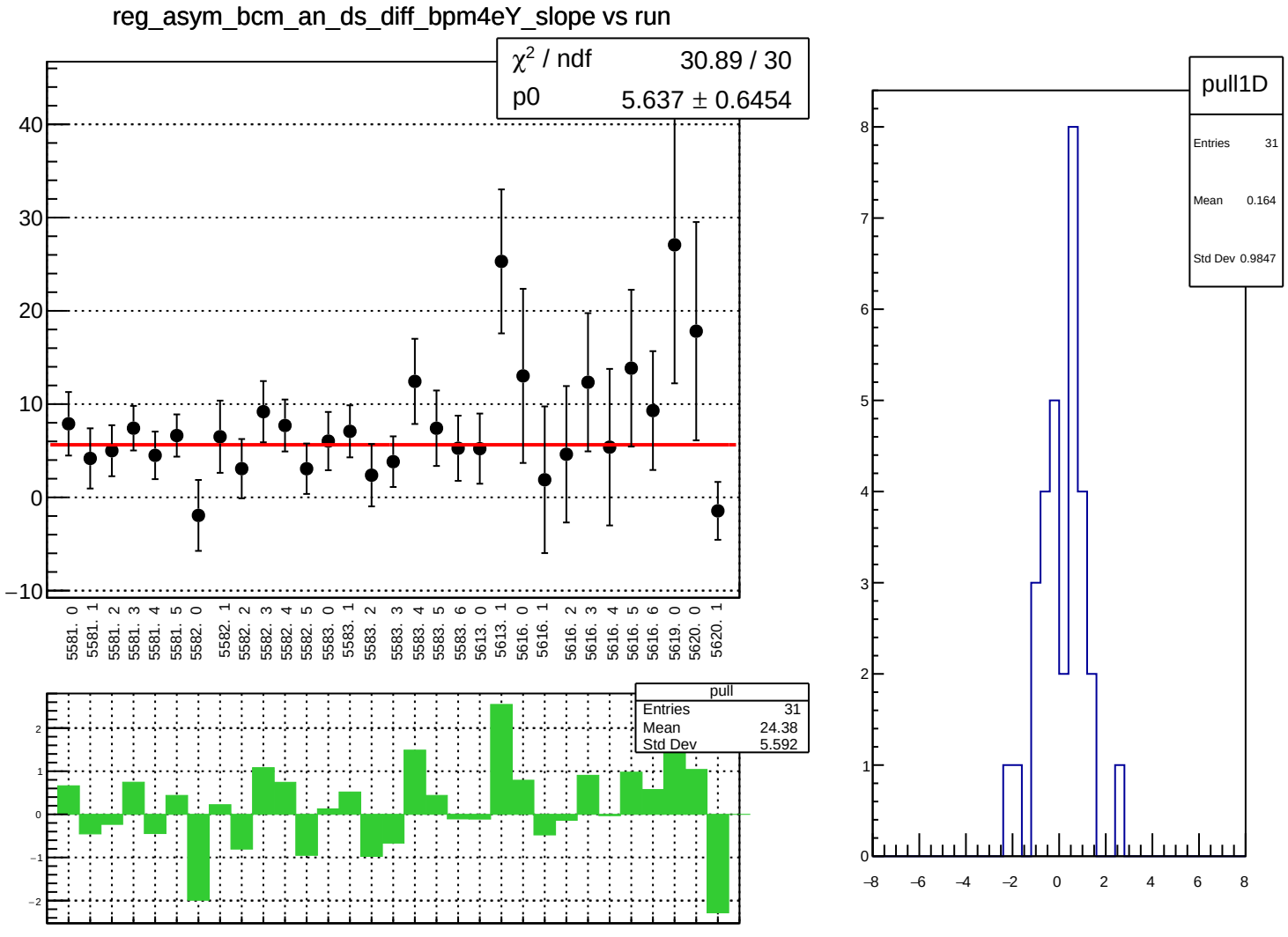

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 99.02 / 30
p0 0.1201± 0.02392
2
1.5
1
0.5
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 56.11
Std Dev 38.84
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.3054
Std Dev 1.761
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

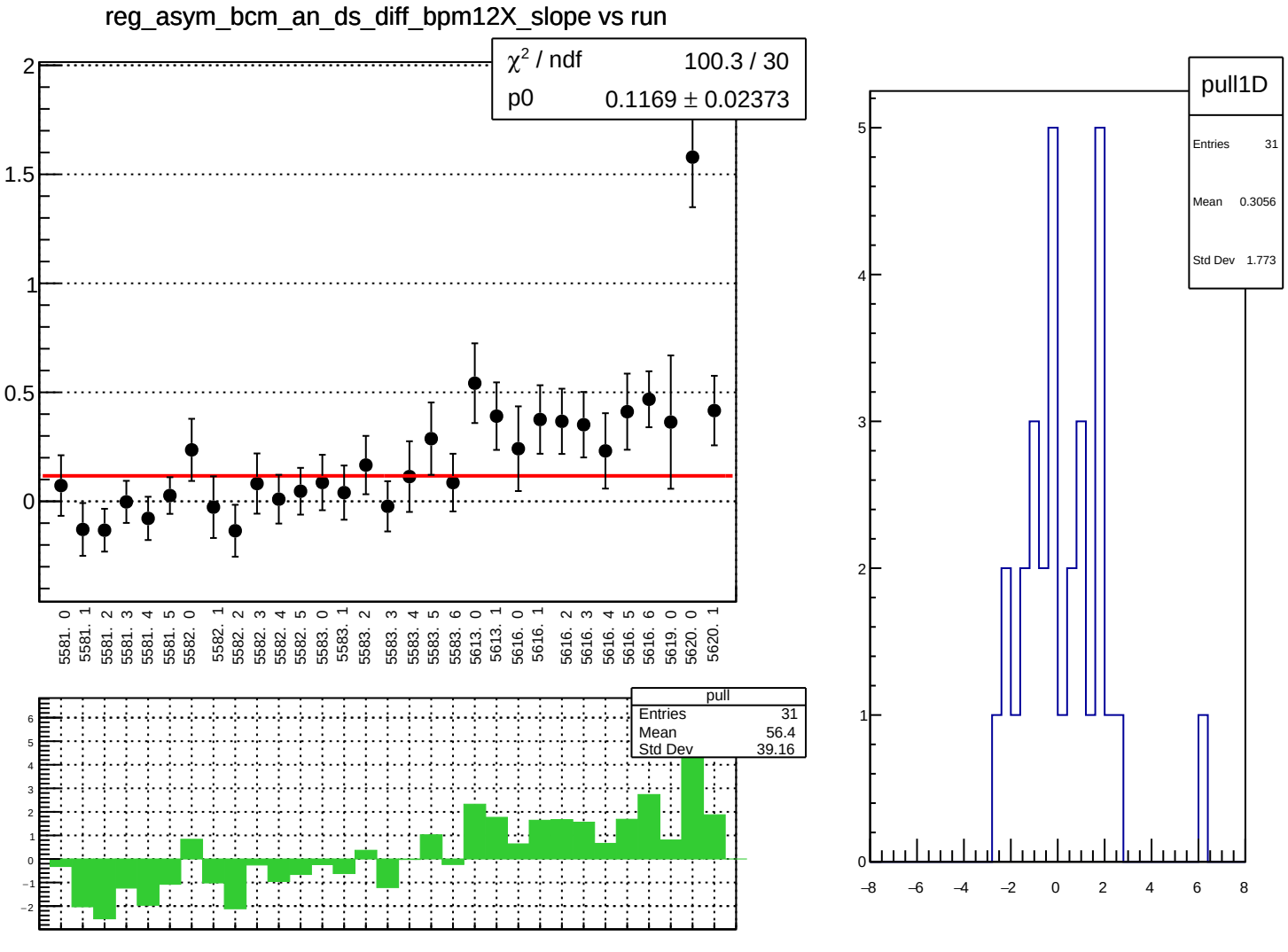

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 174.5 / 30
p0 13.15 ± 0.8697
pull
Entries 31
Mean 37.67
Std Dev 19.82

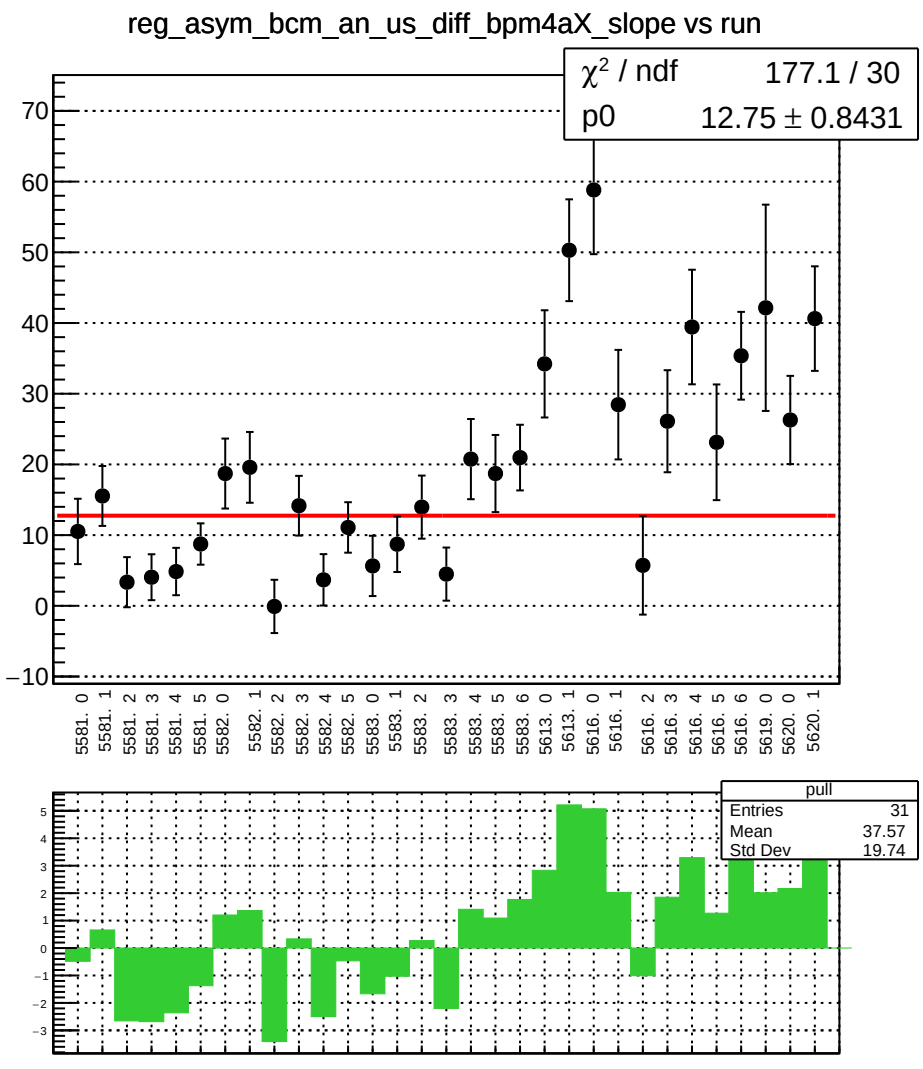

pull1D
Entries 31
Mean 0.6218
Std Dev 2.29

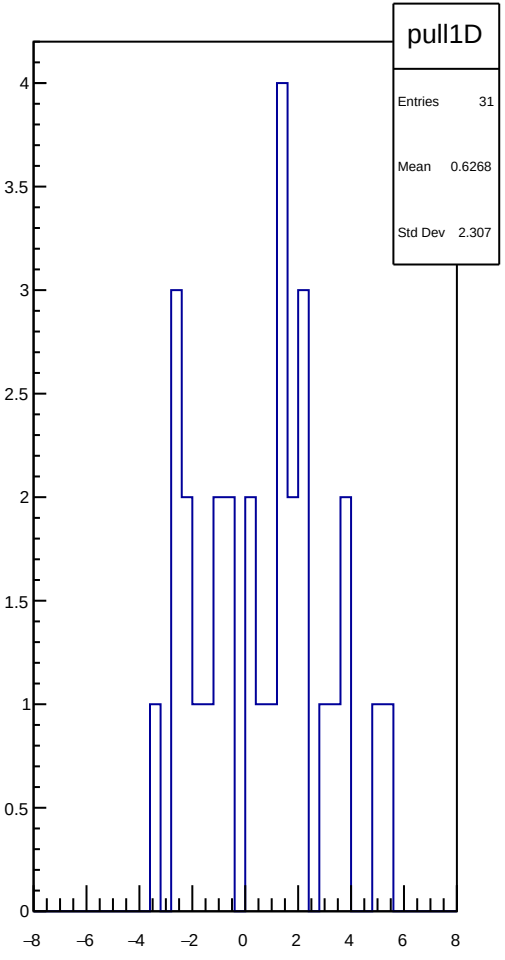

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 35.38 / 30
p0 −3.884 ± 0.4911
pull
Entries 31
Mean 33.31
Std Dev 14.16
pull1D
Entries 31
Mean −0.2483
Std Dev 1.039

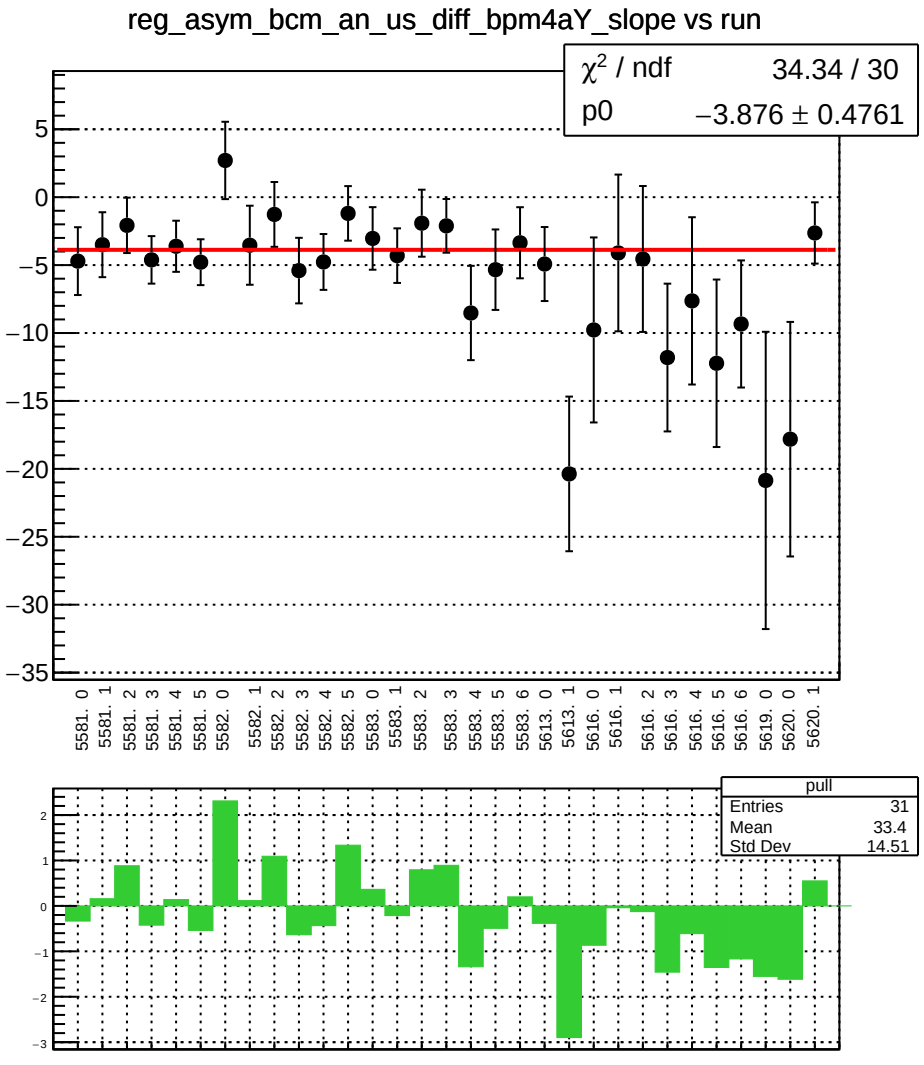

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 185 / 30
p0 −12.79 ± 0.8352
10
0
−10
−20
−30
−40
−50
−60
−70
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.82
Std Dev 17.75
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean −0.7006
Std Dev 2.341
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

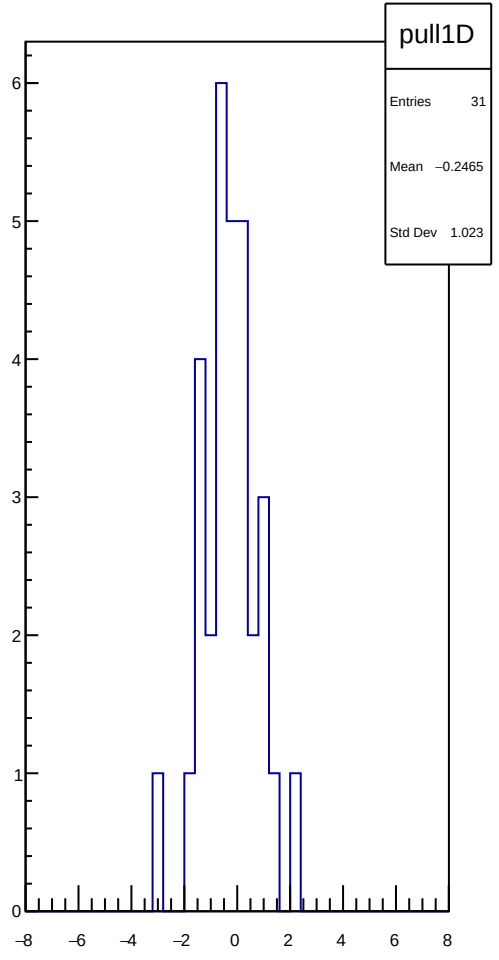

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 30.89 / 30
p0 5.637 ± 0.6454
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.38
Std Dev 5.592
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.164
Std Dev 0.9847
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

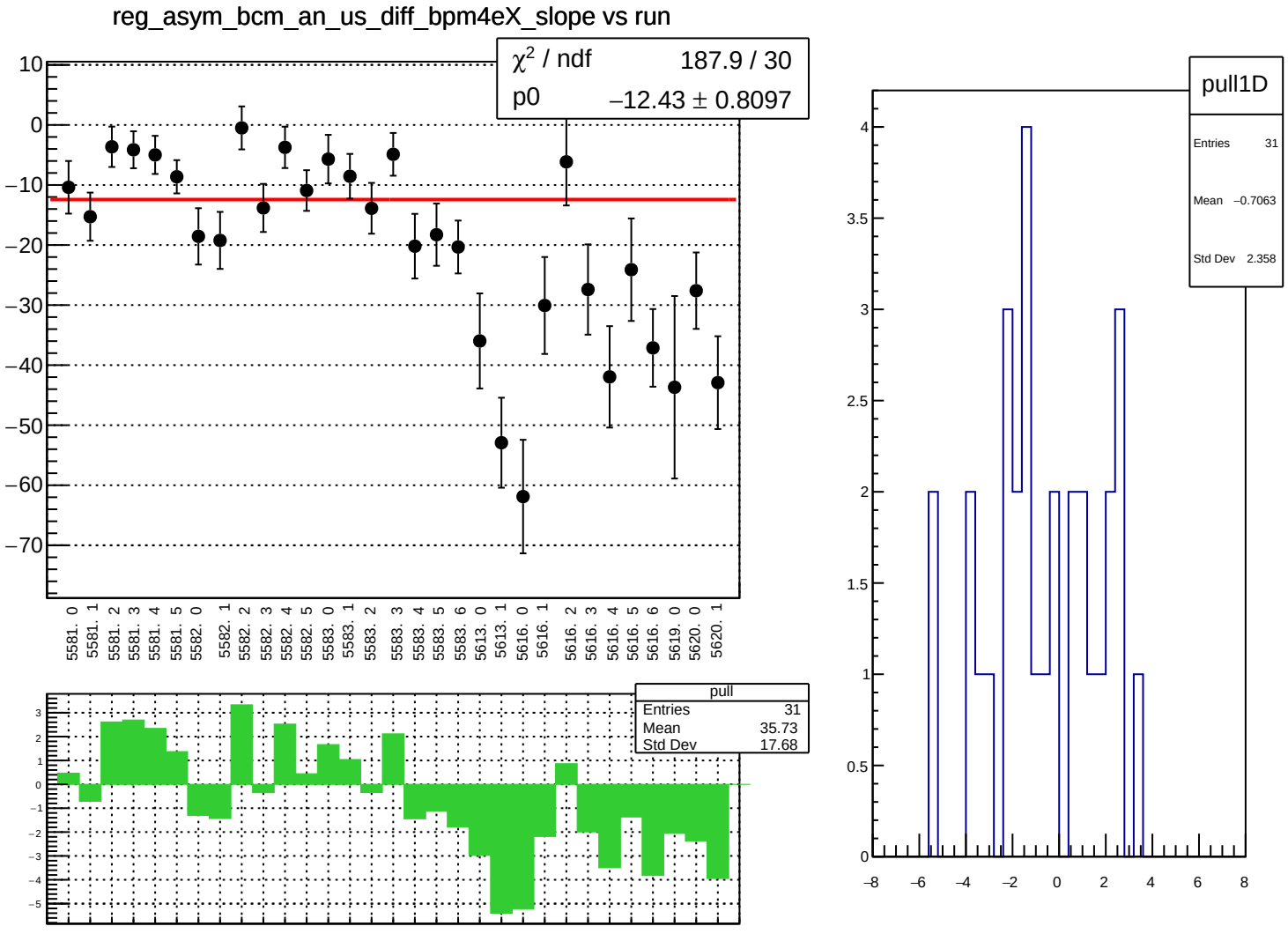

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 100.3 / 30
p0 0.1169 ± 0.02373
2
1.5
1
0.5
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 56.4
Std Dev 39.16
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.3056
Std Dev 1.773
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

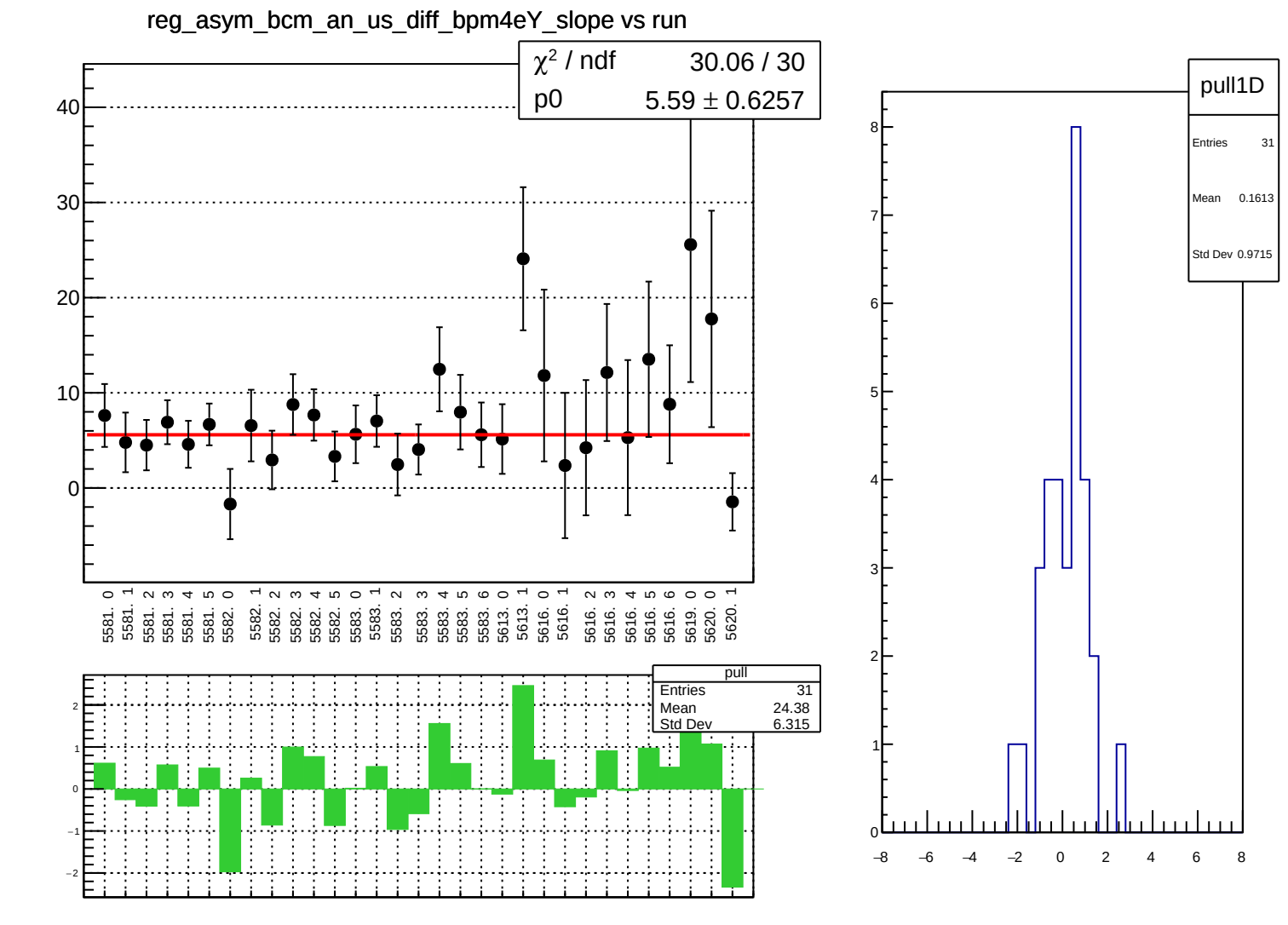

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 177.1 / 30
p0 12.75 ± 0.8431
pull
Entries 31
Mean 37.57
Std Dev 19.74

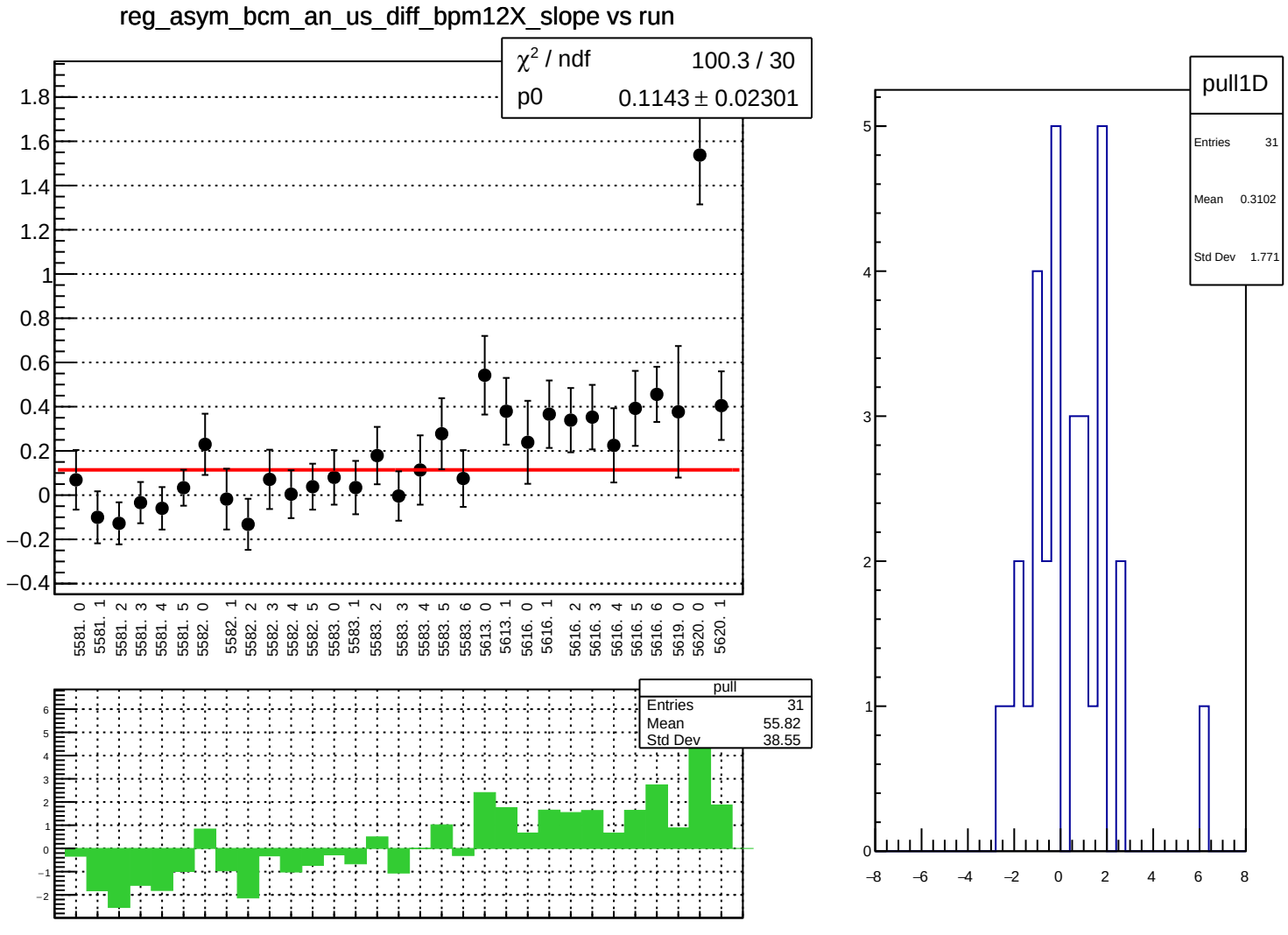

pull1D
Entries 31
Mean 0.6268
Std Dev 2.307

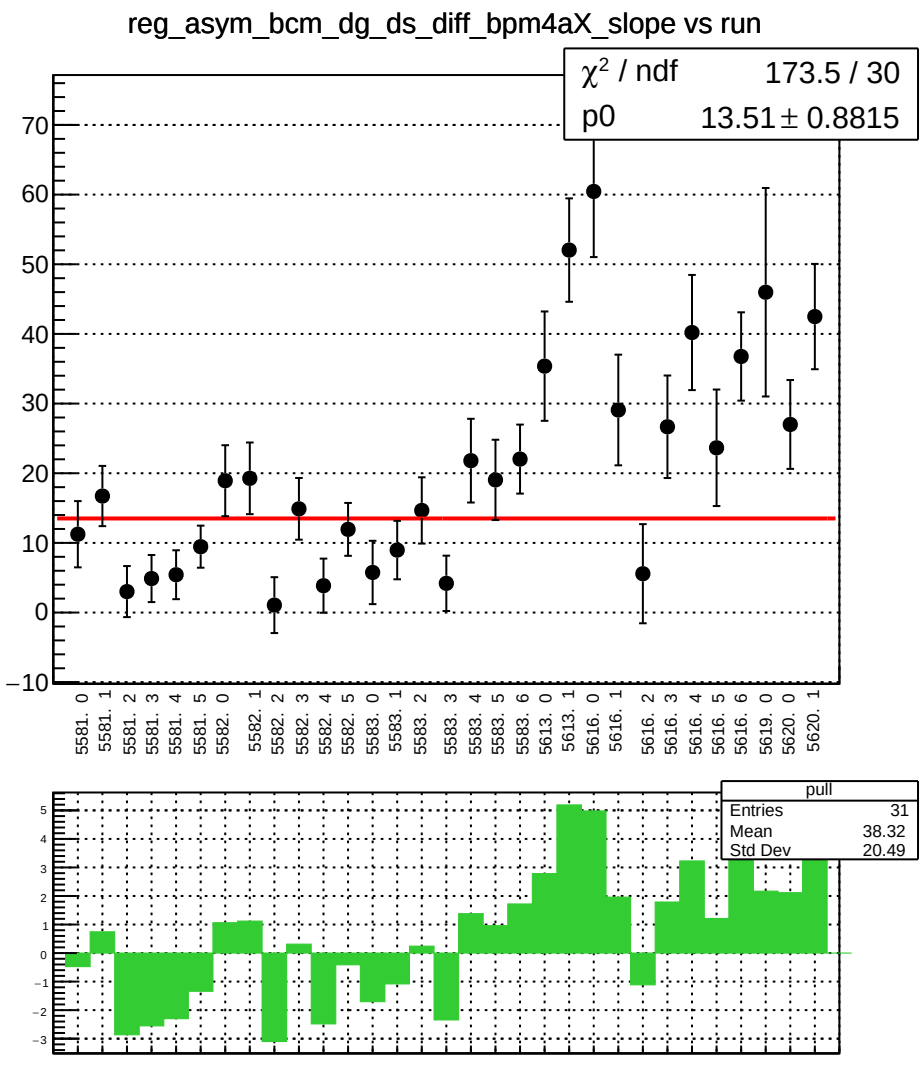

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 34.34 / 30
p0 −3.876 ± 0.4761
pull
Entries 31
Mean 33.4
Std Dev 14.51

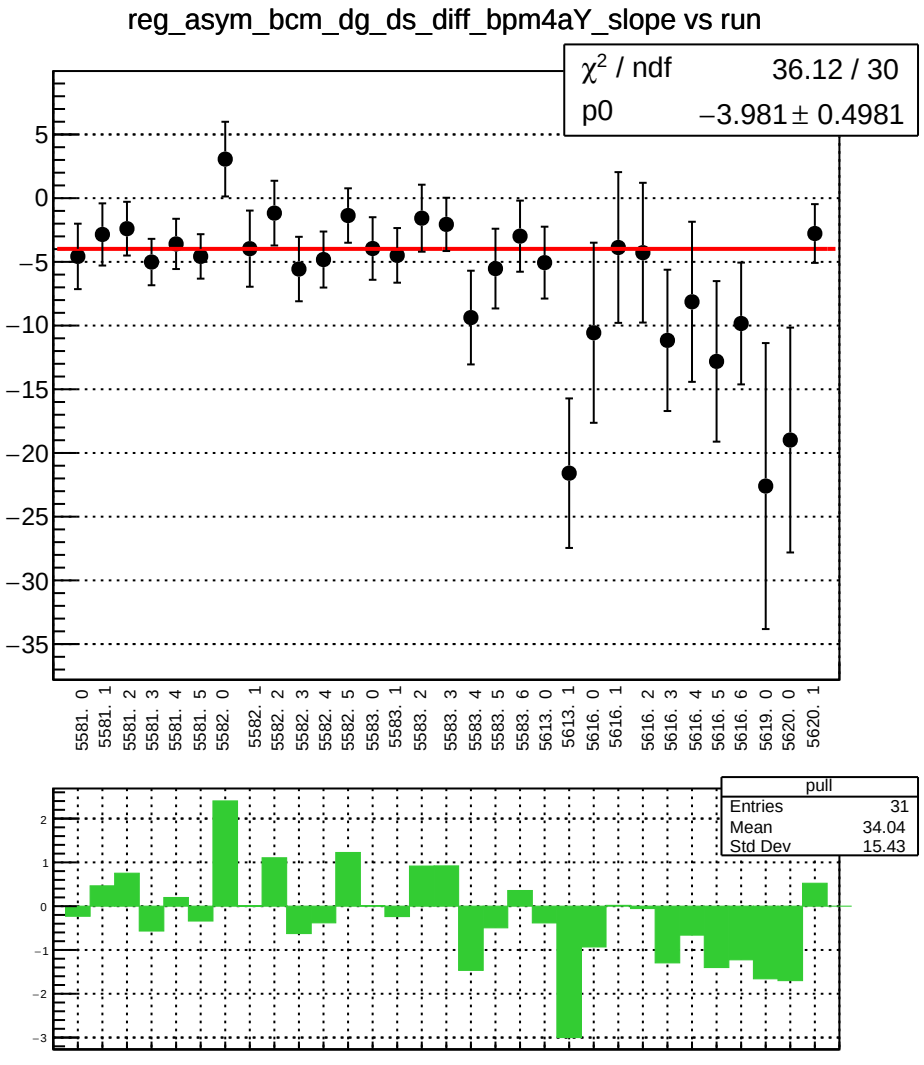

pull1D
Entries 31
Mean −0.2465
Std Dev 1.023

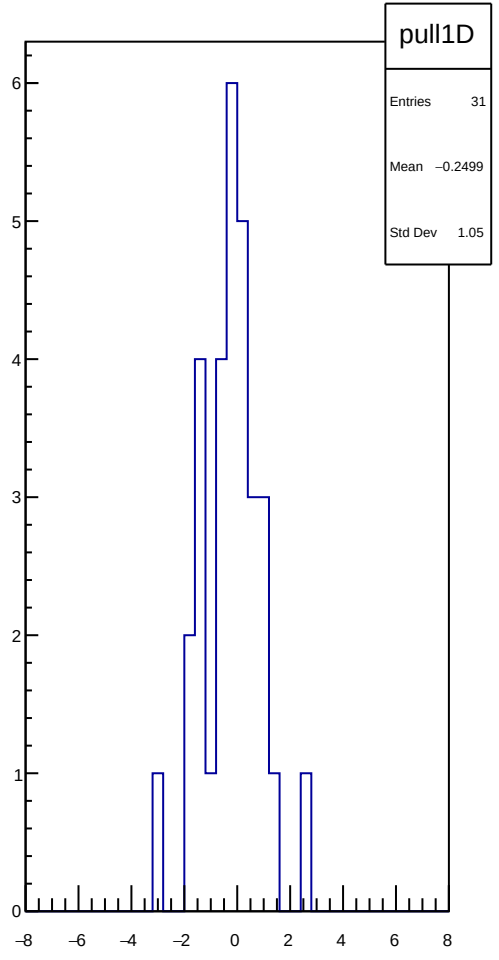

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 187.9 / 30
p0 −12.43 ± 0.8097
pull
Entries 31
Mean 35.73
Std Dev 17.68
pull1D
Entries 31
Mean −0.7063
Std Dev 2.358

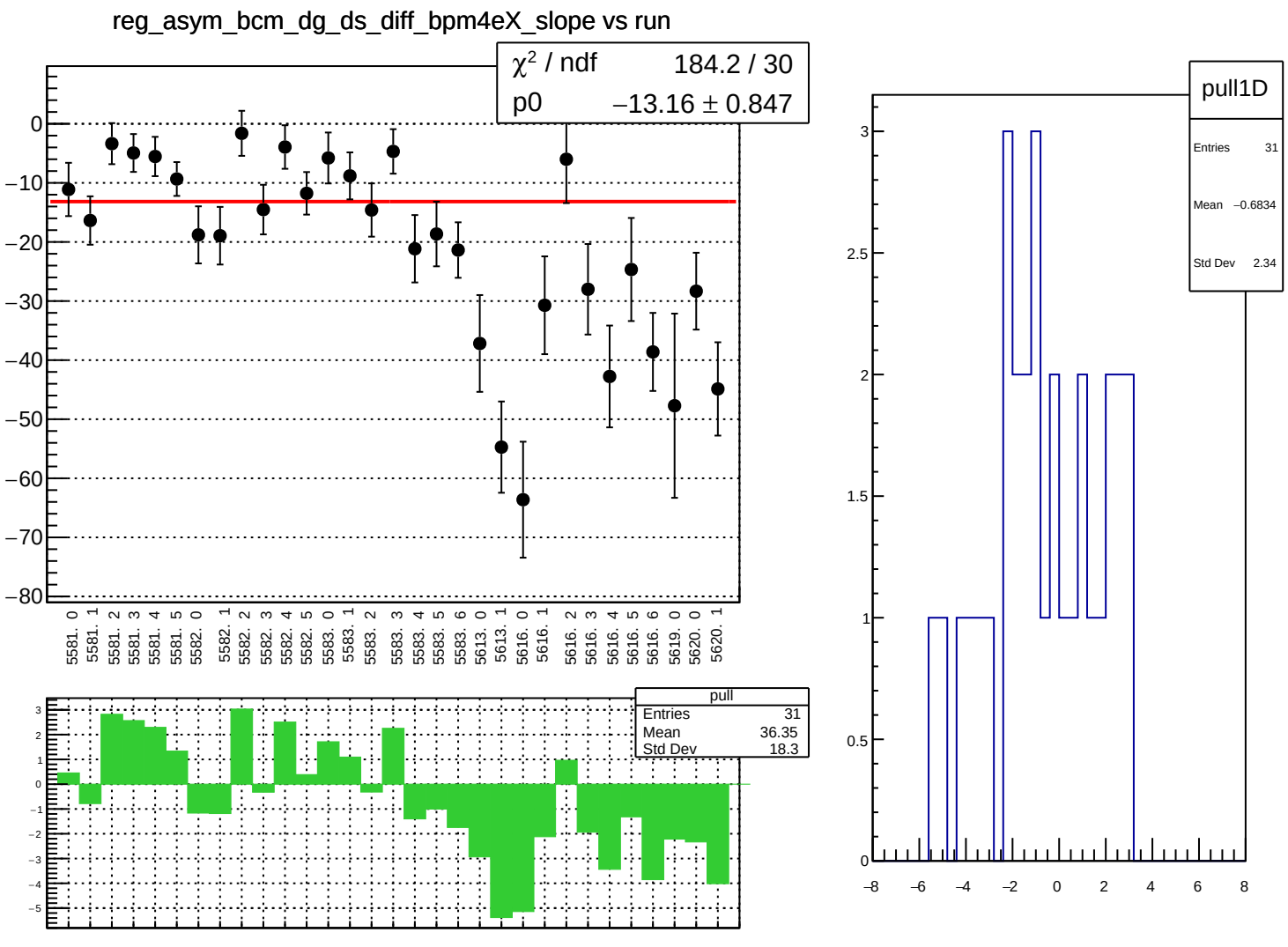

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 30.06 / 30
p0 5.59 ± 0.6257
40
30
20
10
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 24.38
Std Dev 6.315
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1613
Std Dev 0.9715
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

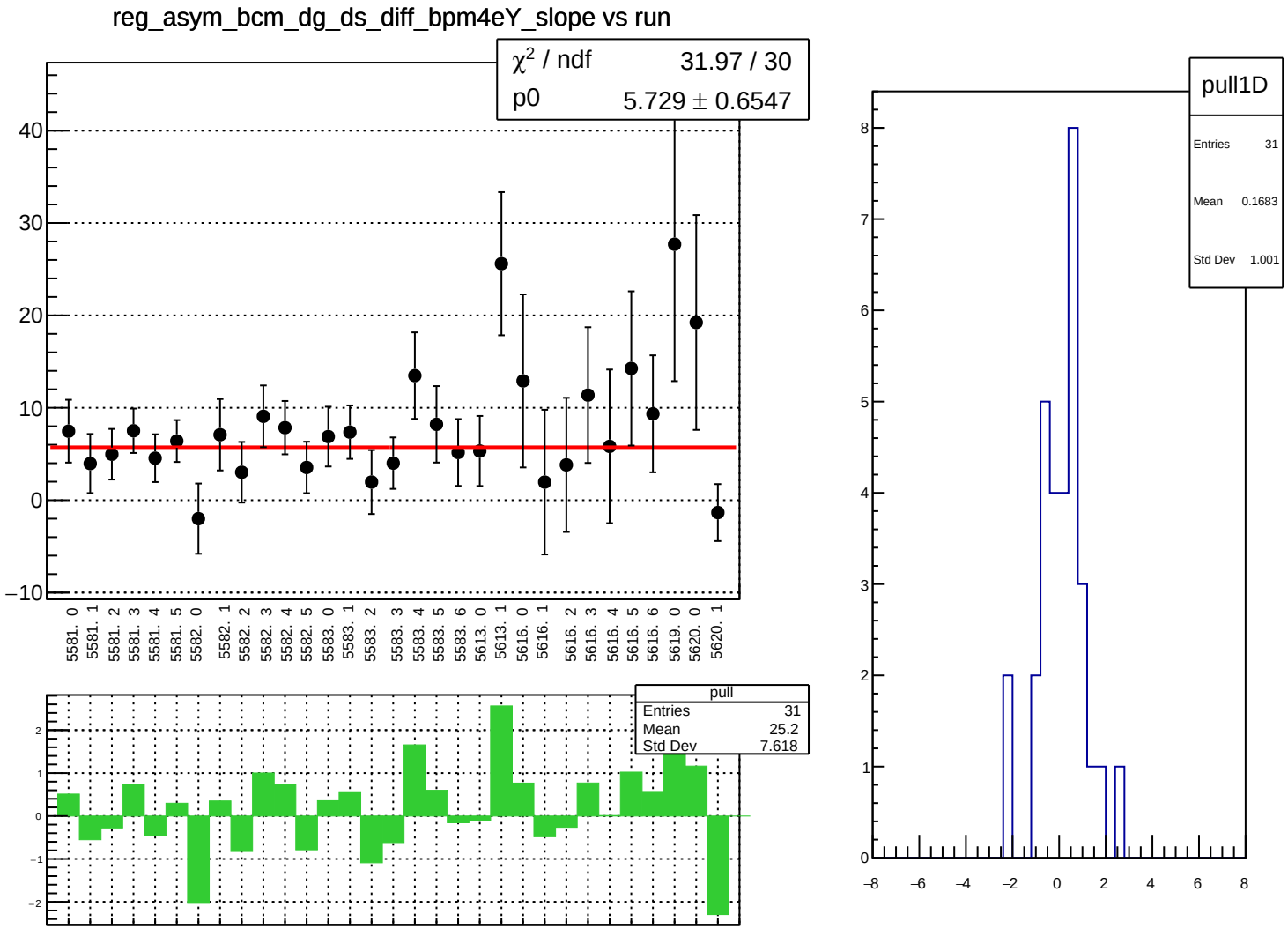

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 100.3 / 30
p0 0.1143 ± 0.02301
pull
Entries 31
Mean 55.82
Std Dev 38.55
pull1D
Entries 31
Mean 0.3102
Std Dev 1.771

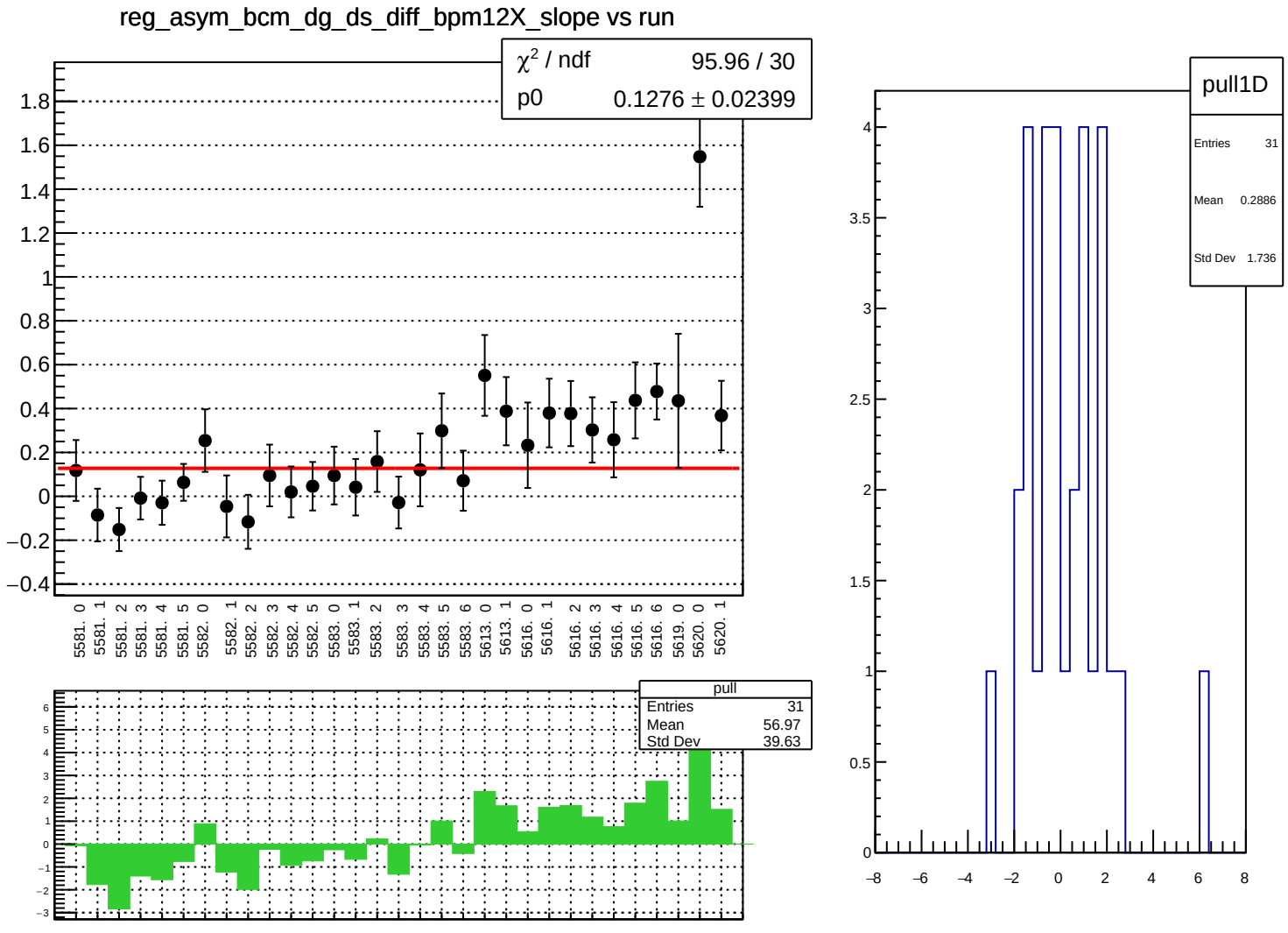

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 173.5 / 30
p0 13.51 ± 0.8815
70
60
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 38.32
Std Dev 20.49
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.6037
Std Dev 2.287
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

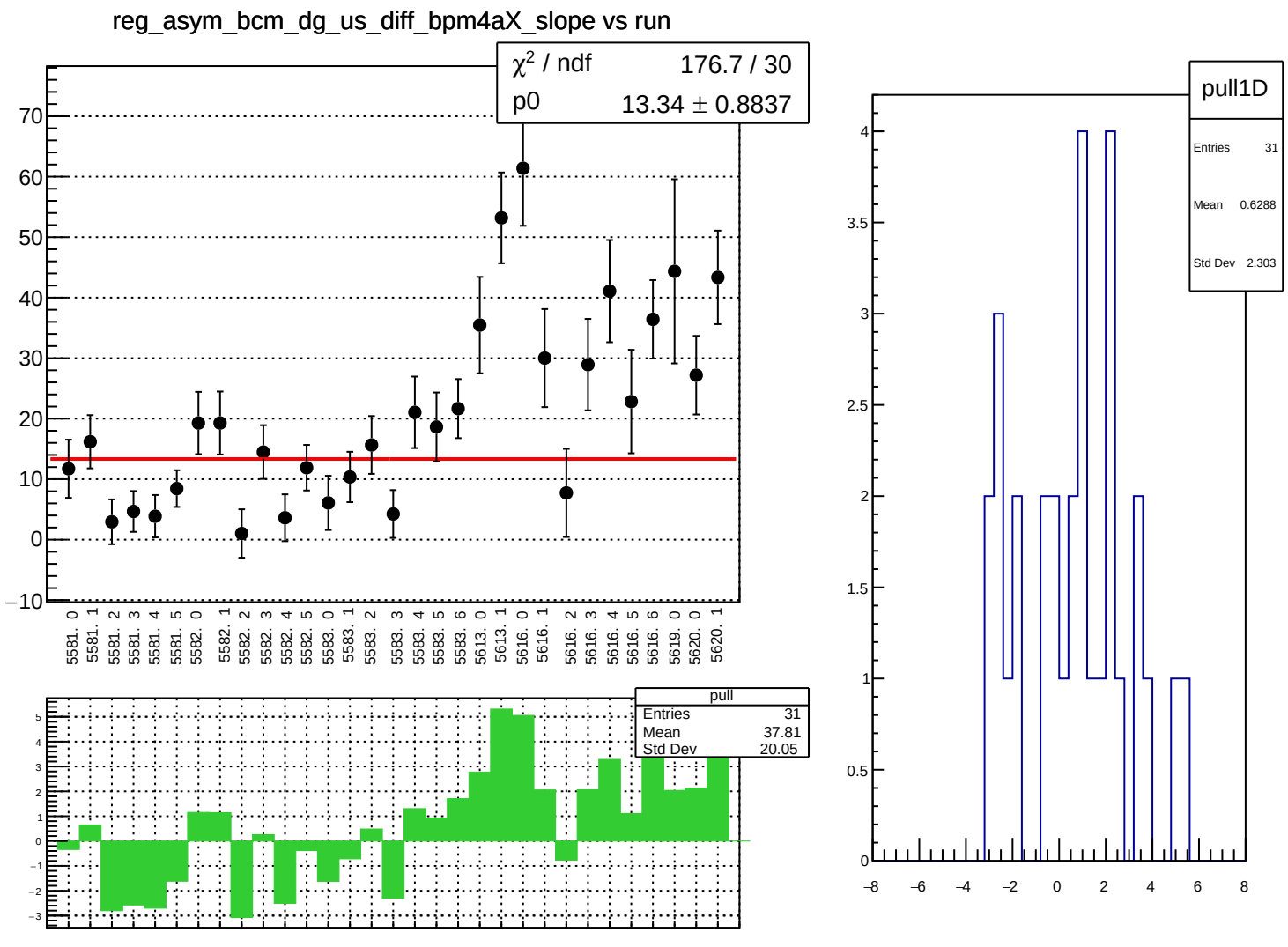

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 36.12 / 30
p0 −3.981 ± 0.4981
pull
Entries 31
Mean 34.04
Std Dev 15.43

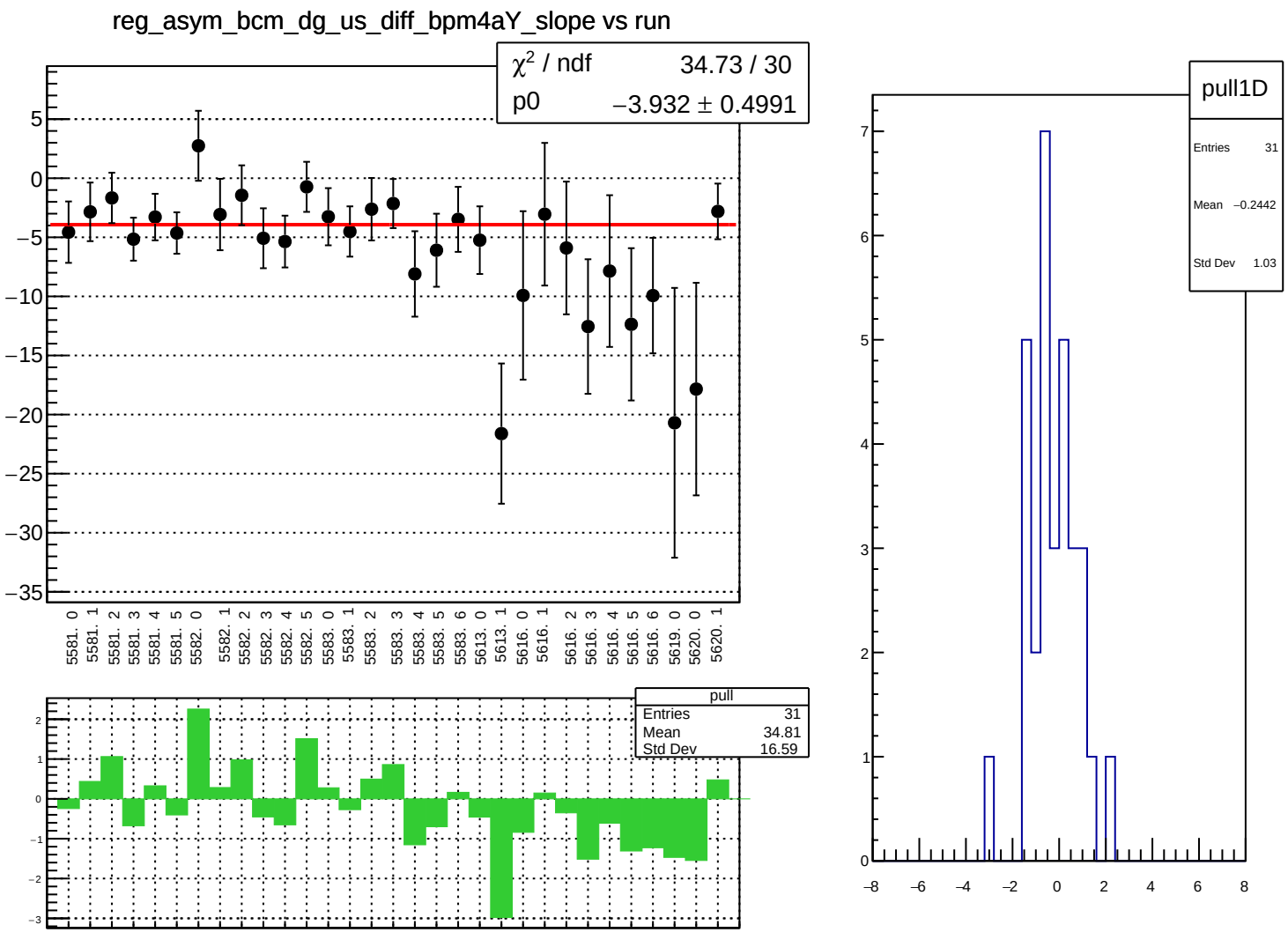

pull1D
Entries 31
Mean −0.2499
Std Dev 1.05

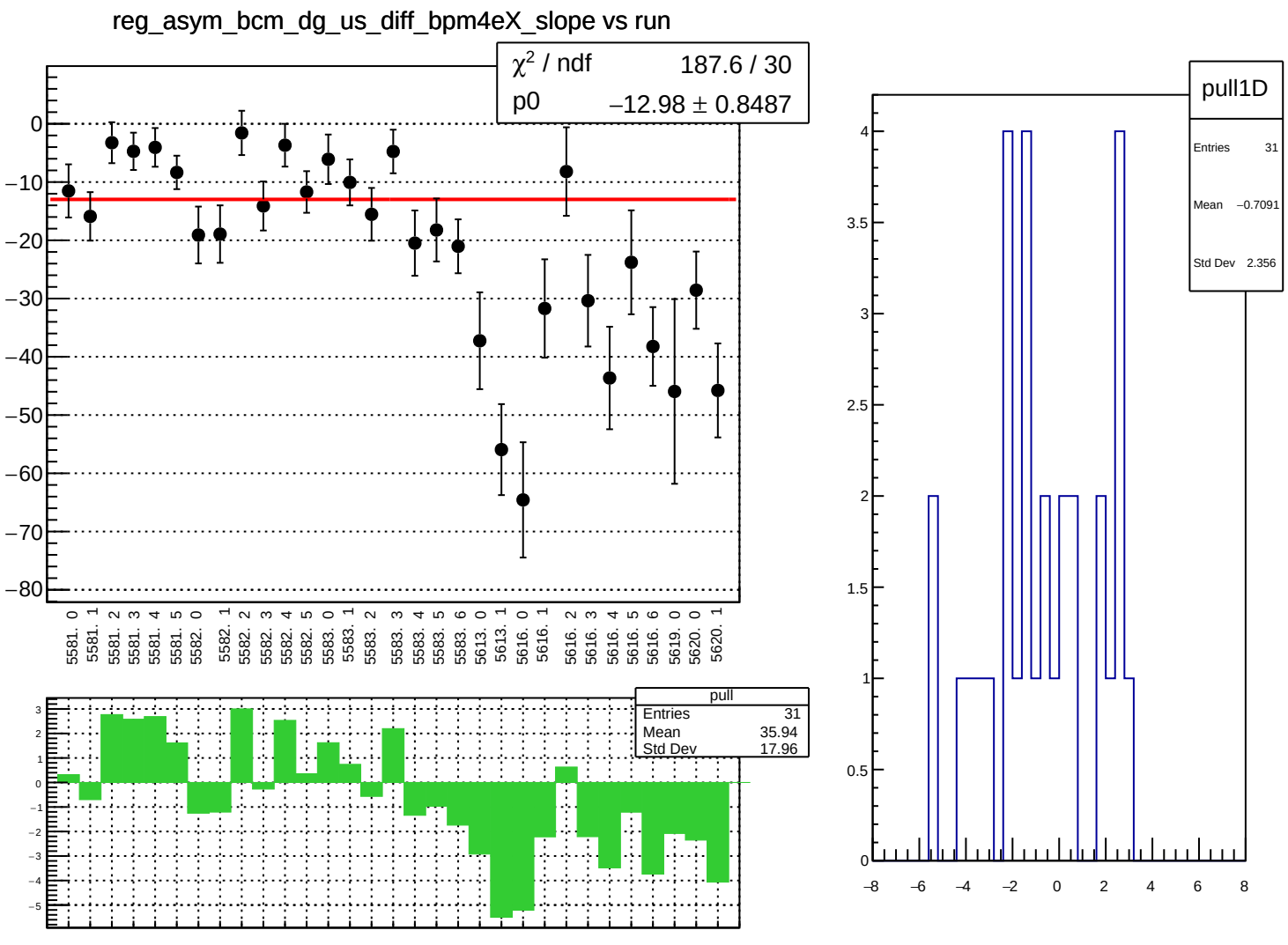

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 184.2 / 30
p0 −13.16 ± 0.847
0
−10
−20
−30
−40
−50
−60
−70
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 36.35
Std Dev 18.3
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean −0.6834
Std Dev 2.34
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

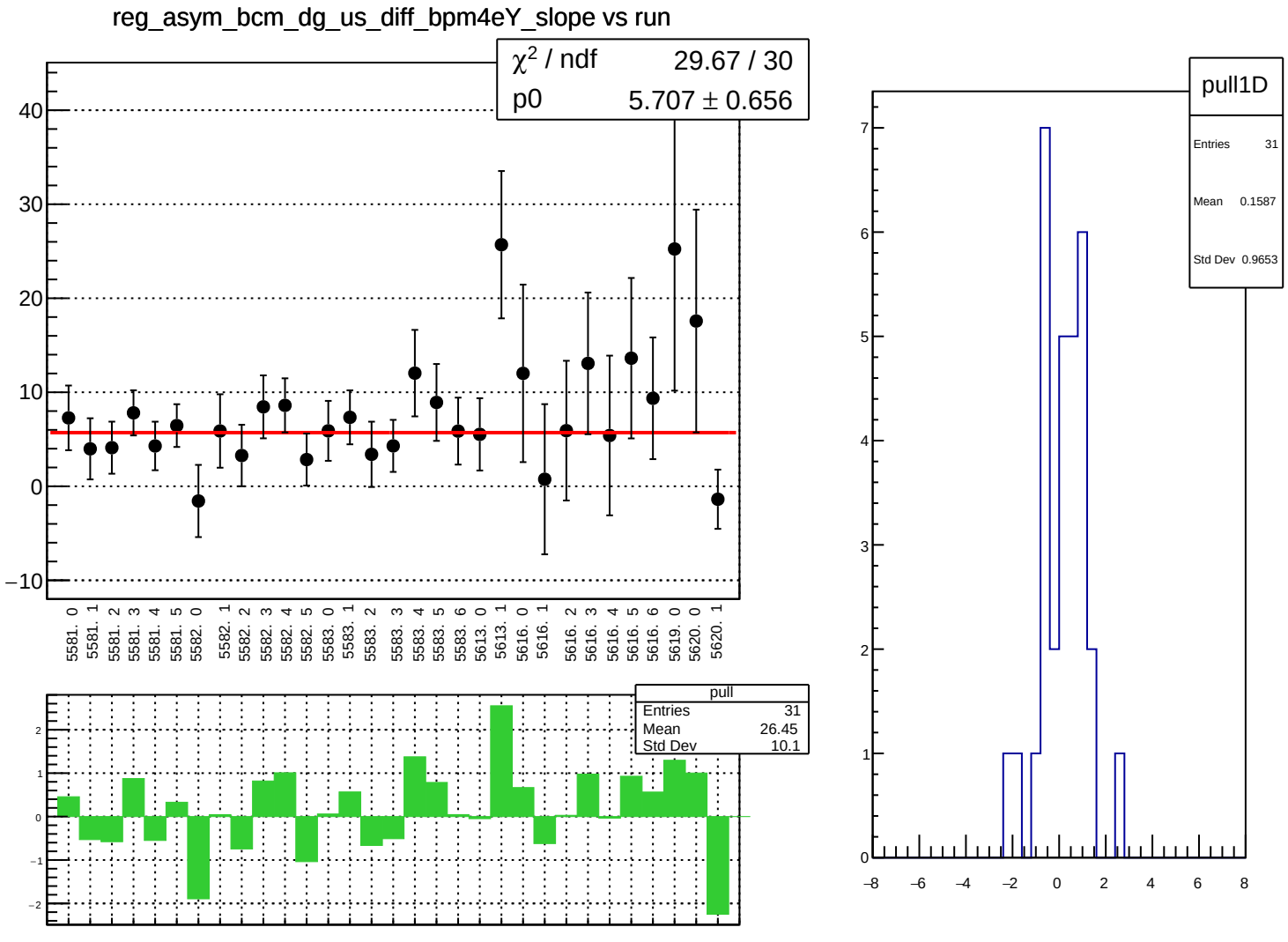

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 31.97 / 30
p0 5.729 ± 0.6547
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 25.2
Std Dev 7.618
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1683
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

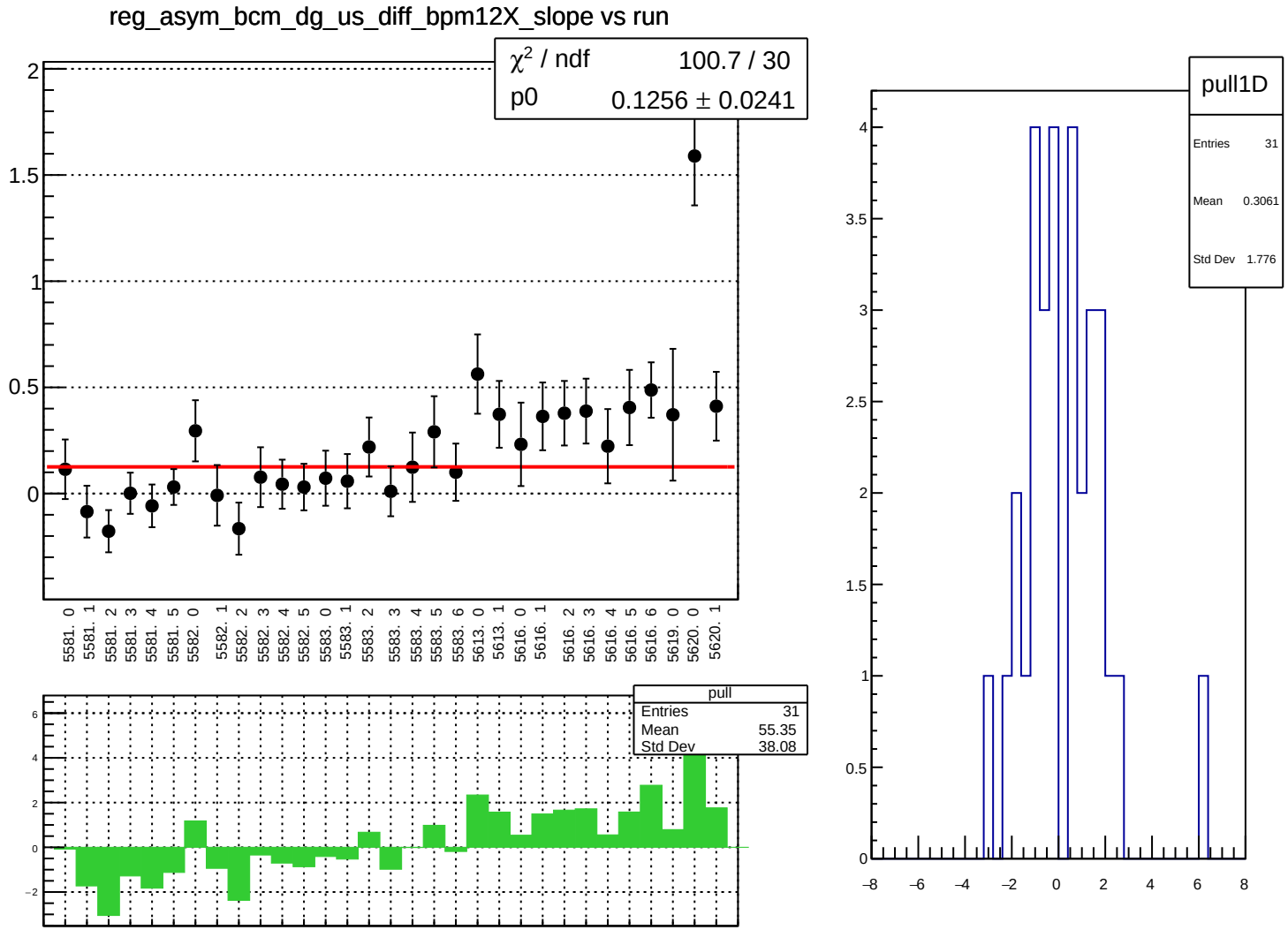

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 95.96 / 30
p0 0.1276 ± 0.02399
pull
Entries 31
Mean 56.97
Std Dev 39.63
pull1D
Entries 31
Mean 0.2886
Std Dev 1.736


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 176.7 / 30
p0 13.34 ± 0.8837
70
60
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 37.81
Std Dev 20.05
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 31
Mean 0.6288
Std Dev 2.303
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_bpm4aY_slope vs run
χ² / ndf 34.73 / 30
p0 −3.932 ± 0.4991
pull
Entries 31
Mean 34.81
Std Dev 16.59
pull1D
Entries 31
Mean −0.2442
Std Dev 1.03


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 187.6 / 30
p0 −12.98 ± 0.8487
0
−10
−20
−30
−40
−50
−60
−70
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 35.94
Std Dev 17.96
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 31
Mean −0.7091
Std Dev 2.356
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 29.67 / 30
p0 5.707 ± 0.656
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 26.45
Std Dev 10.1
2
1
0
−1
−2
pull1D
Entries 31
Mean 0.1587
Std Dev 0.9653
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 100.7 / 30
p0 0.1256 ± 0.0241
2
1.5
1
0.5
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5619. 0
5620. 0
5620. 1
pull
Entries 31
Mean 55.35
Std Dev 38.08
6
4
2
0
−2
pull1D
Entries 31
Mean 0.3061
Std Dev 1.776
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8